Climatronic

From November 2004

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

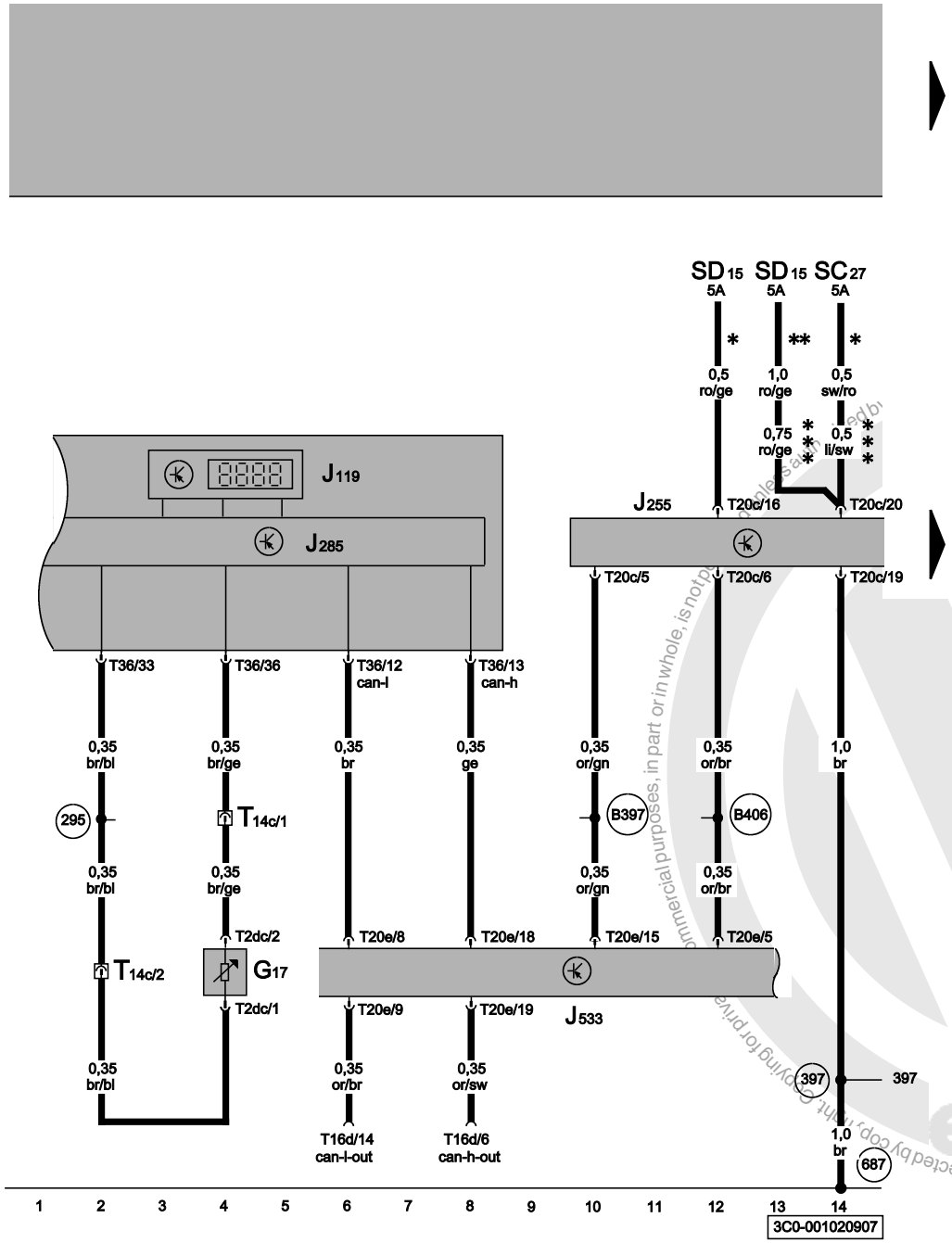
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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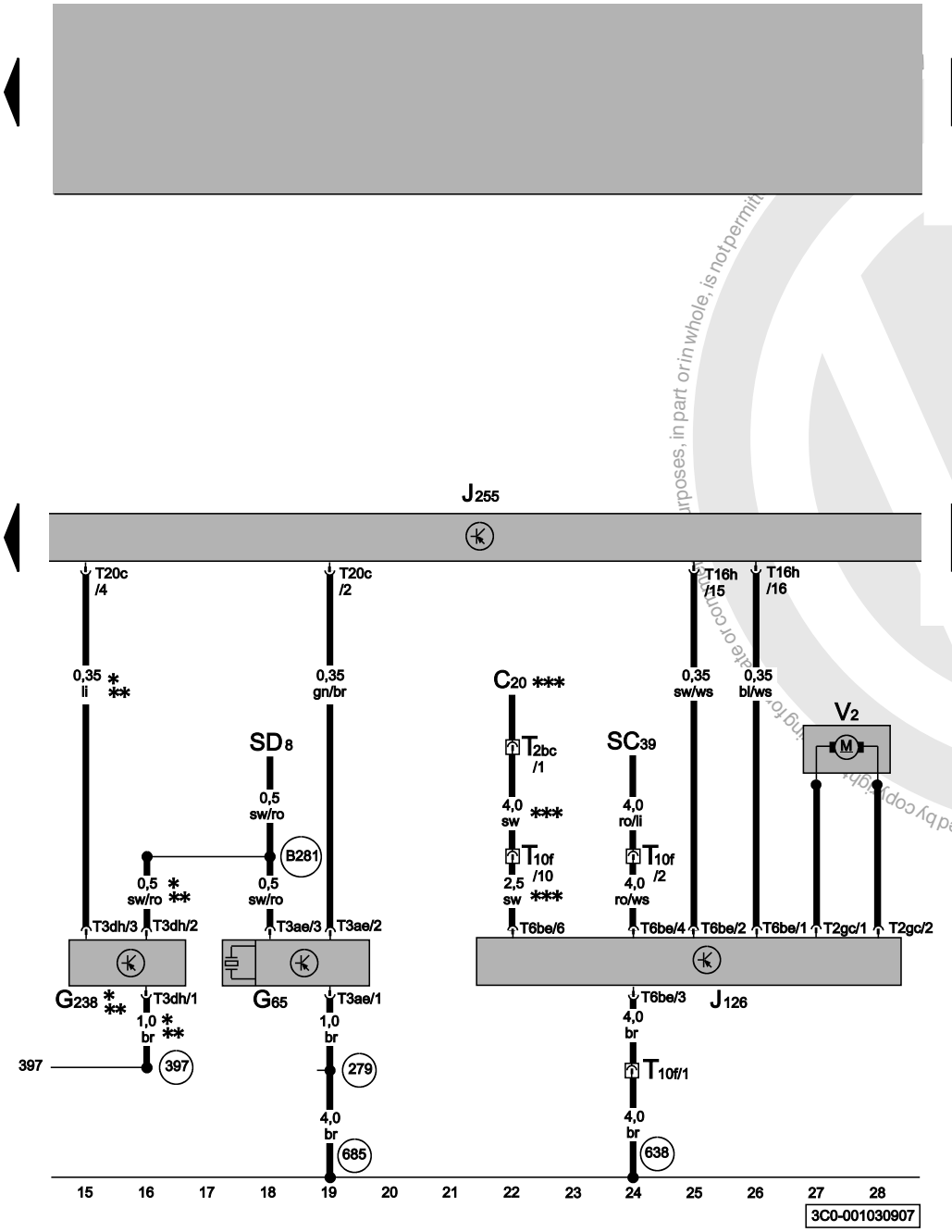
Dash panel insert, ambient temperature sender, Climatronic control unit, self-diagnosis connection

G17	Ambient temperature sensor
J119	Multifunction display
J255	Climatronic control unit
J285	Control unit in dash panel insert
J533	Data bus diagnosis interface
SC27	Fuse 27 on fuse holder C
SD15	Fuse 15 on fuse holder D
T2dc	2-pin connector
T14c	14-pin connector, coupling point, front left of bumper
T16d	16-pin connector, self-diagnosis connection
T20c	20-pin connector
T20e	20-pin connector
T36	36-pin connector
295	Earth connection 10, in interior wiring harness
397	Earth connection 32, in main wiring harness
687	Earth point 1, on centre tunnel
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only models with no auxiliary heater
**	Only models with auxiliary heater
***	Applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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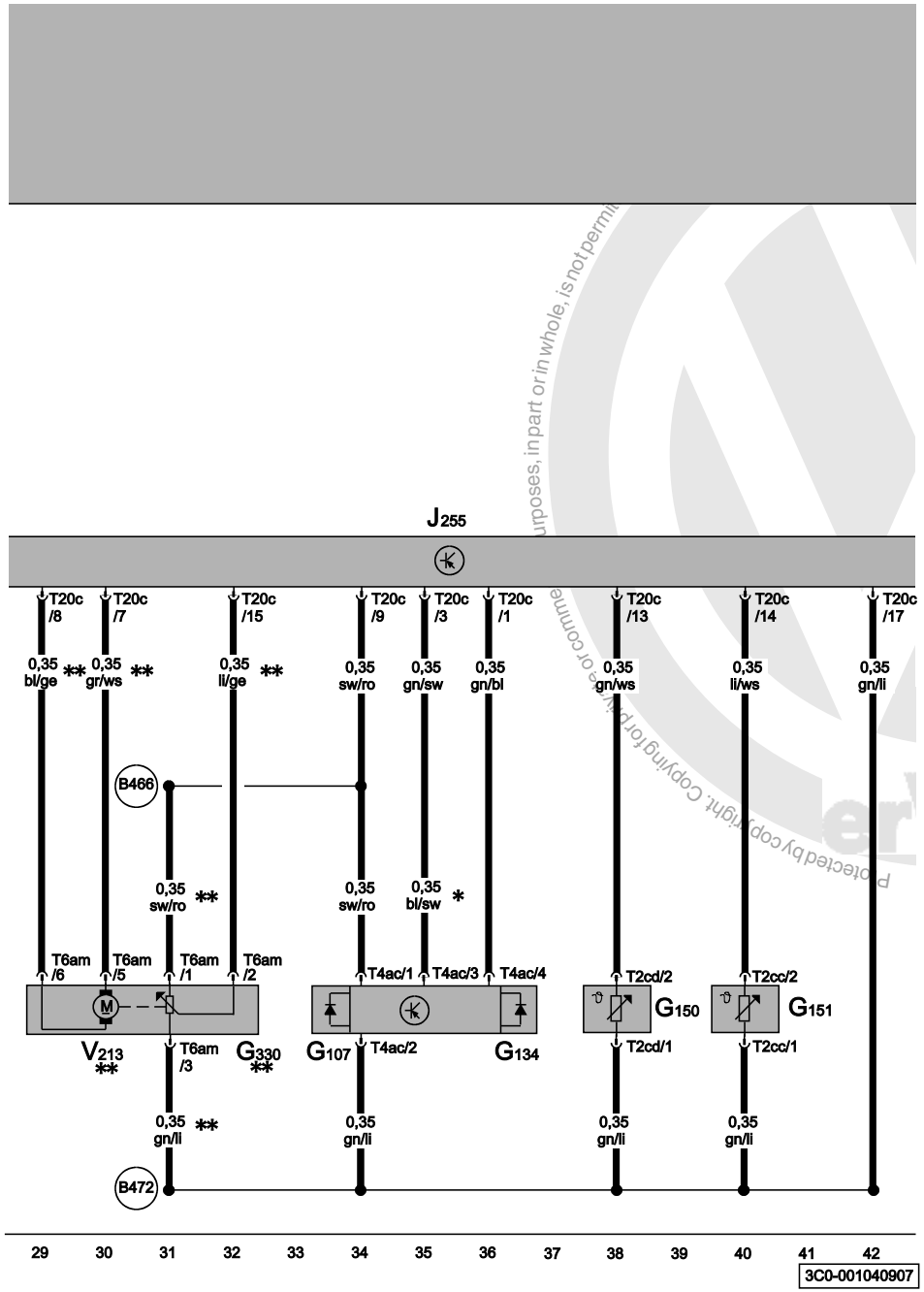
Climatronic control unit, fresh air blower control unit, high-pressure sender, air quality sensor



C20	Solar cells
G65	High-pressure sender
G238	Air quality sensor
J126	Fresh air blower control unit
J255	Climatronic control unit
SC39	Fuse 39 on fuse holder C
SD8	Fuse 8 on fuse holder D
T2bc	2-pin connector
T2gc	2-pin connector
T3ae	3-pin connector
T3dh	3-pin connector, grey
T6be	6-pin connector
T10f	10-pin connector, coupling point, heater/air conditioning system
T16h	16-pin connector
T20c	20-pin connector
V2	Fresh air blower
279	Earth connection 5, in interior wiring harness
397	Earth connection 32, in main wiring harness
638	Earth point, on right A-pillar
685	Earth point 1 at front of right longitudinal member
B281	Connection 5 (15a), in main wiring harness
*	Applicable from May 2007
**	Discontinued from November 2007 for American markets
***	Only solar roof

ws	=	white
sw	=	black
ro	=	red
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Climatronic control unit, photosensor, vent temperature sender

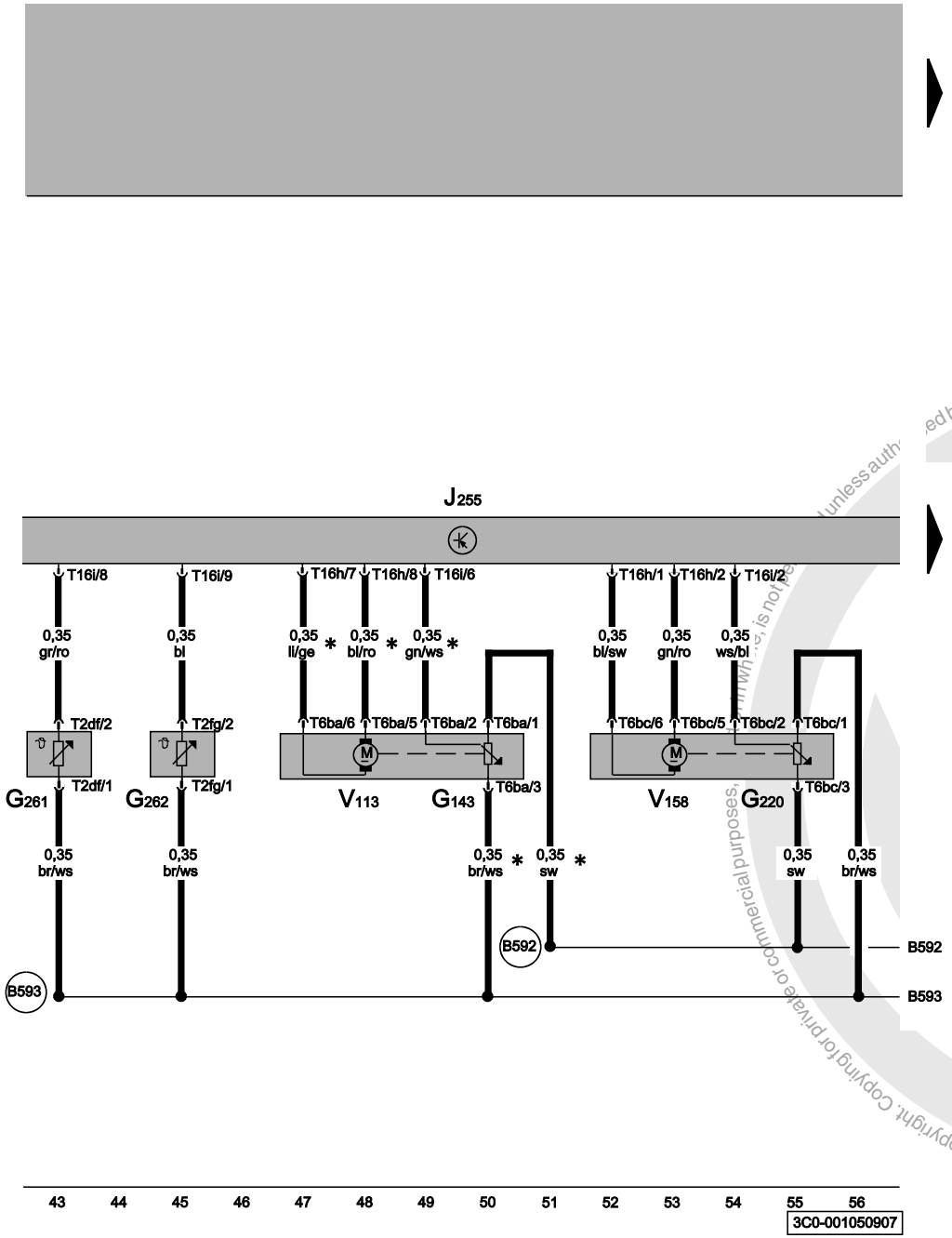
G107	Sunlight penetration photosensor
G134	Sunlight penetration photosensor 2
G150	Left vent temperature sender
G151	Right vent temperature sender
G330	Potentiometer for indirect ventilation flap control motor
J255	Climatronic control unit
T2cc	2-pin connector
T2cd	2-pin connector
T4ac	4-pin connector
T6am	6-pin connector, blue
T20c	20-pin connector
V213	Indirect ventilation flap control motor
B466	Connection 2, in main wiring harness
B472	Connection 8, in main wiring harness
*	Applicable from November 2006
**	Discontinued from November 2007 for American markets

ws	=	white
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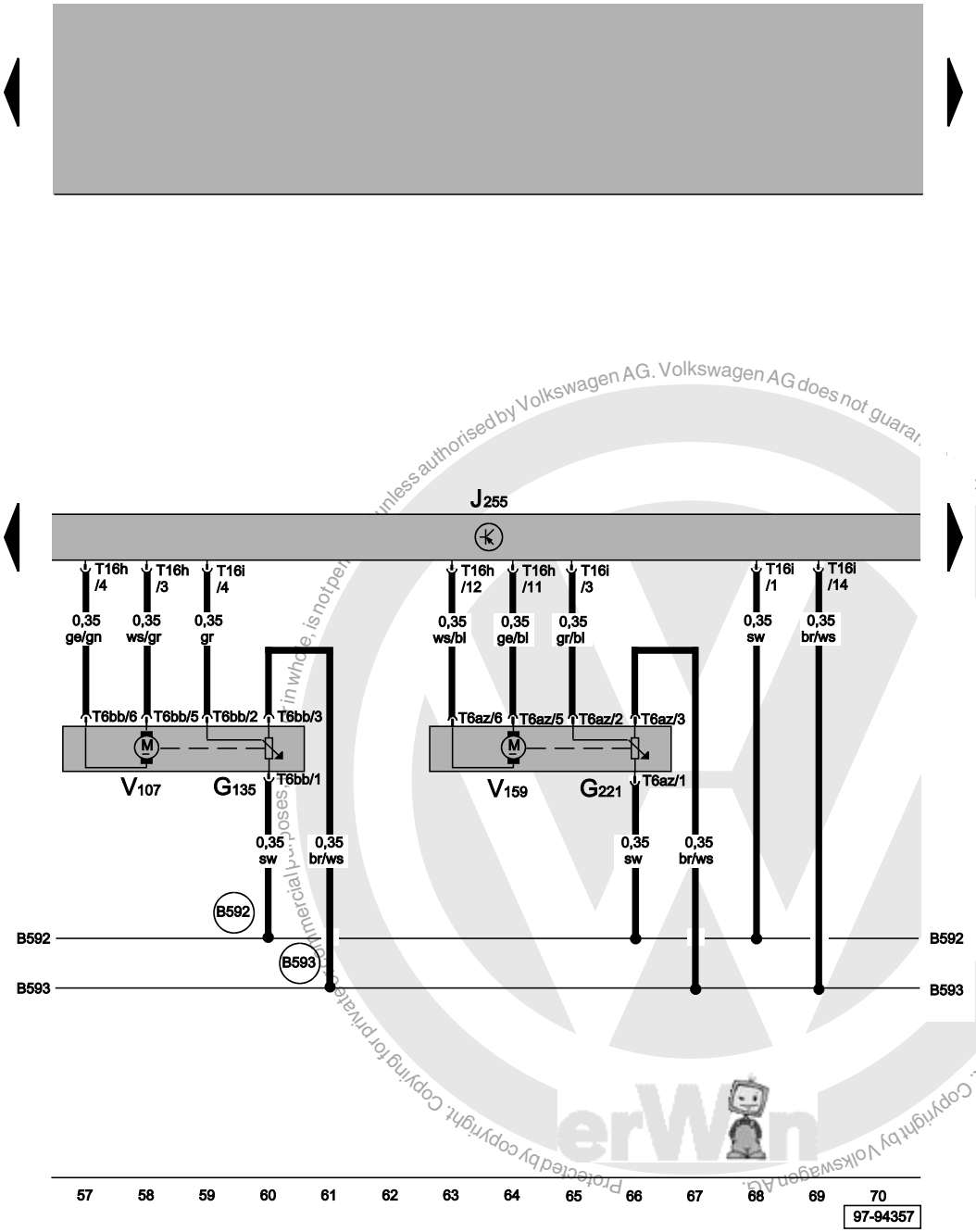
Climatronic control unit, footwell vent temperature sender, air recirculation flap control motor

G143	Air recirculation flap control motor potentiometer
G220	Potentiometer for left temperature flap control motor
G261	Left footwell vent temperature sender
G262	Right footwell vent temperature sender
J255	Climatronic control unit
T2df	2-pin connector
T2fg	2-pin connector
T6ba	6-pin connector, blue
T6bc	6-pin connector
T16h	16-pin connector, brown
T16i	16-pin connector, black
V113	Air recirculation flap control motor
V158	Left temperature flap control motor
B592	Connection 1, in Climatronic wiring harness
B593	Connection 2, in Climatronic wiring harness
*	Discontinued from May 2007



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Climatronic control unit, defroster flap control motor, right temperature flap control motor

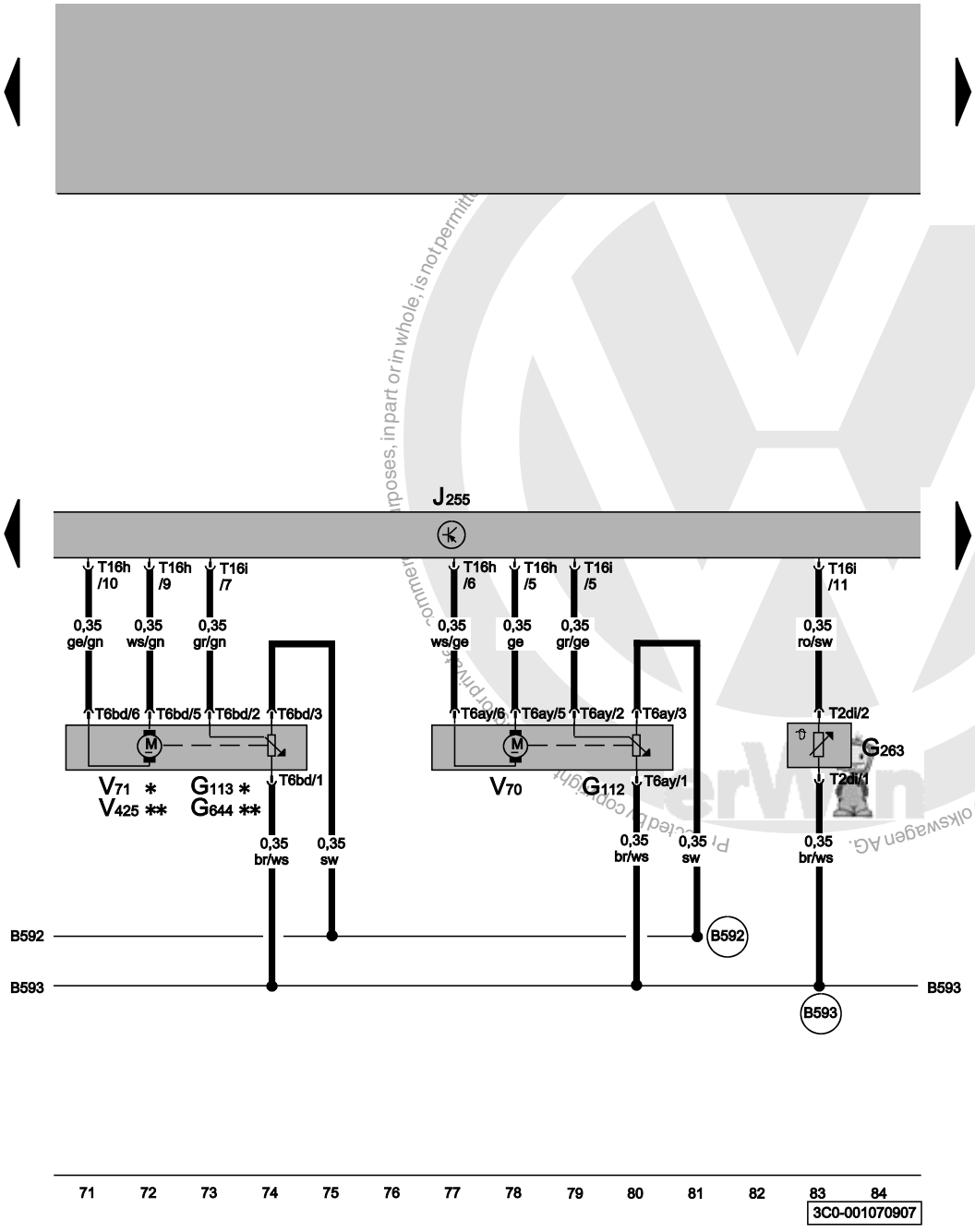
G135	Defroster flap control motor potentiometer
G221	Potentiometer for right temperature flap control motor
J255	Climatronic control unit
T6az	6-pin connector
T6bb	6-pin connector
T16h	16-pin connector, brown
T16i	16-pin connector, black
V107	Defroster flap control motor
V159	Right temperature flap control motor
B592	Connection 1, in Climatronic wiring harness
B593	Connection 2, in Climatronic wiring harness

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Climatronic control unit, centre flap control motor, evaporator output temperature sender, Potentiometer for fresh air/air flow flap control motor, fresh air/air flow flap control motor

G112	Potentiometer for centre flap servomotor
G113	Potentiometer for air flow flap control motor
G263	Evaporator output temperature sender
G644	Potentiometer for fresh air/recirculated air flow flap control motor
J255	Climatronic control unit
T2di	2-pin connector
T6ay	6-pin connector, blue
T6bd	6-pin connector
T16h	16-pin connector
T16i	16-pin connector
V70	Centre flap control motor
V71	Air flow flap control motor
V425	Fresh air/recirculated air, air flow flap control motor
B592	Connection 1, in Climatronic wiring harness
B593	Connection 2, in Climatronic wiring harness
*	Applicable up to April 2007
**	Applicable from May 2007

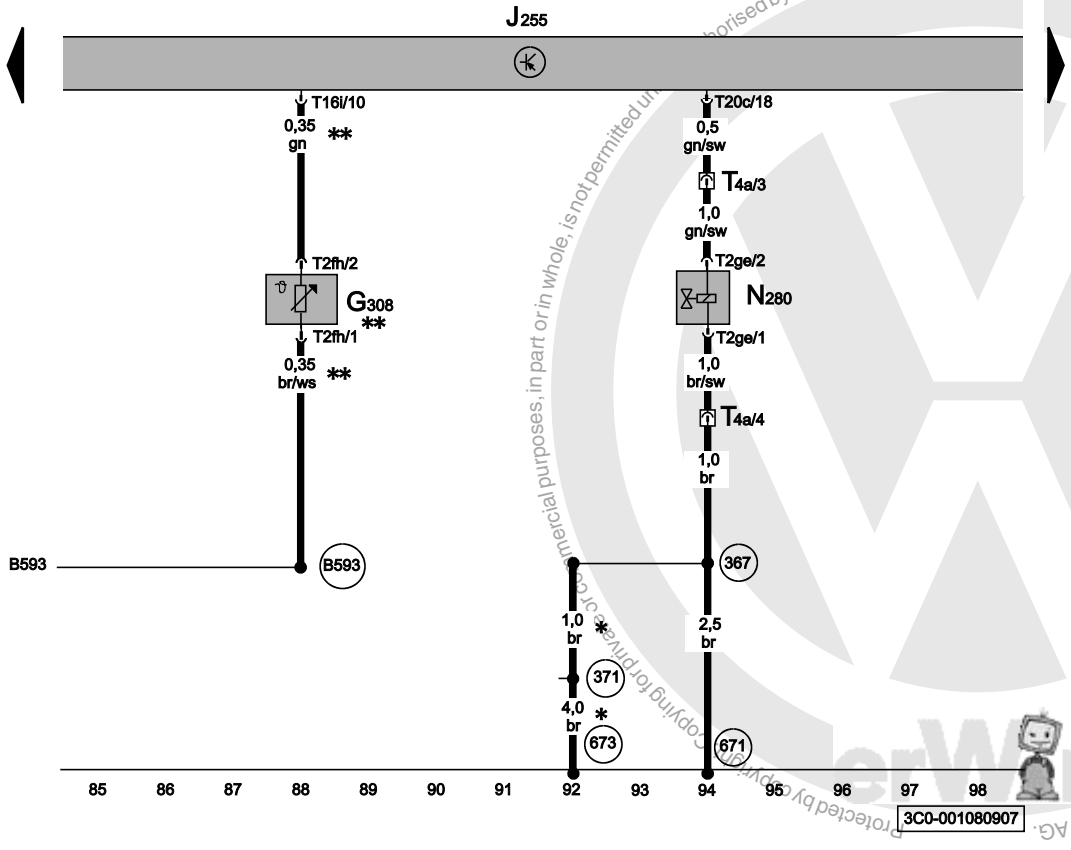


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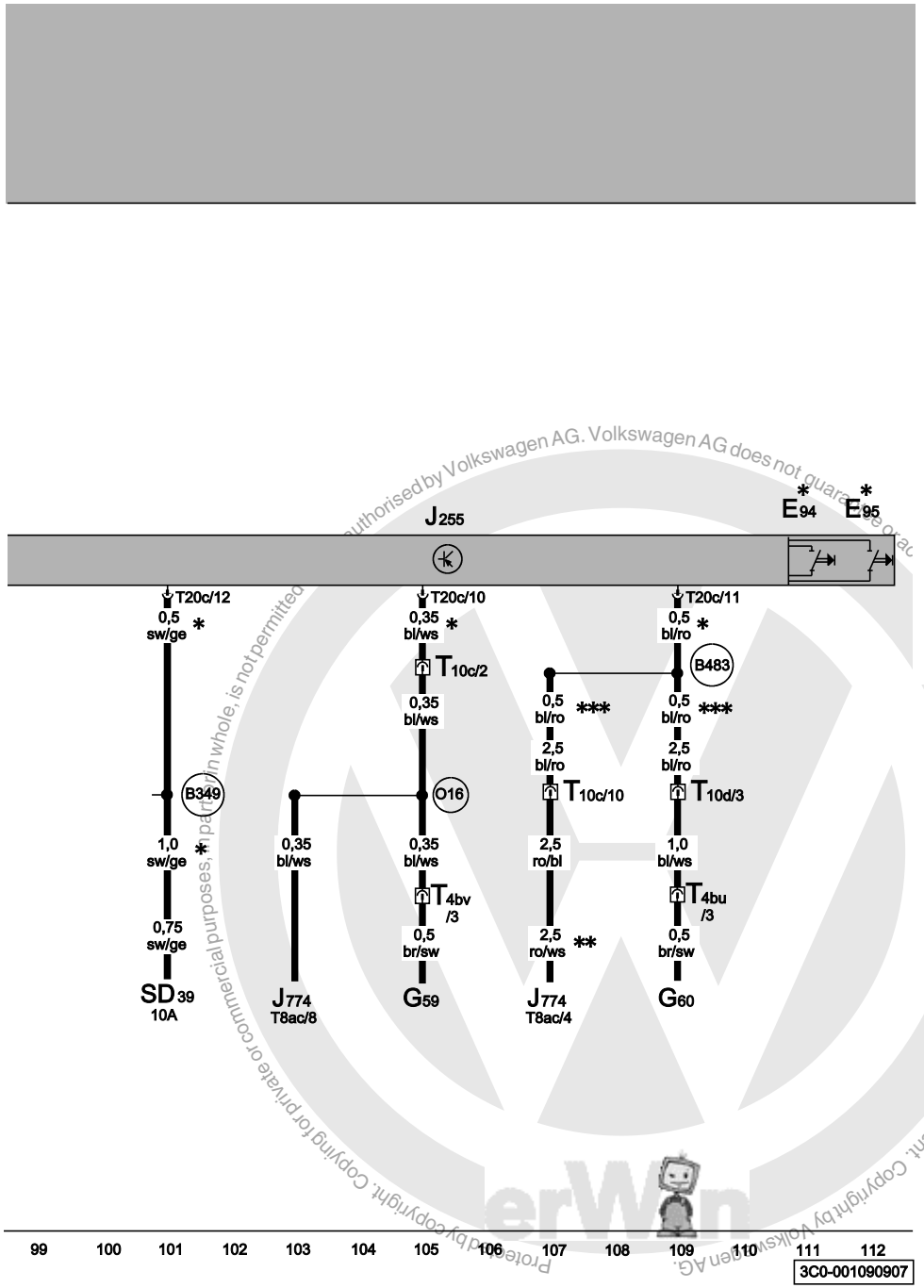
Climatronic control unit, evaporator temperature sensor, air conditioner compressor regulating valve

G308	Evaporator temperature sensor
J255	Climatronic control unit
N280	Air conditioner compressor regulating valve
T2fh	2-pin connector, black
T2ge	2-pin connector
T4a	4-pin connector, near starter
T16i	16-pin connector
T20c	20-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B593	Connection 2, in Climatronic wiring harness
*	Applicable from November 2006
**	Applicable from November 2006 to May 2007



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Climatronic control unit, heated front seats control unit, heated driver seat regulator, heated front passenger seat regulator

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
G59	Driver seat temperature sensor
G60	Front passenger seat temperature sensor
J255	Climatronic control unit
J774	Control unit for heated front seats
SD39	Fuse 39 on fuse holder D
T4bu	4-pin connector, black, under front passenger seat seat
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
T20c	20-pin connector
B349	Connection 2 (75A), in main wiring harness
B483	Connection 19, in main wiring harness
O16	Connection 5, in seat heating wiring harness
*	Only seat heating
**	Applicable from May 2005
***	Applicable from November 2006

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Basic equipment

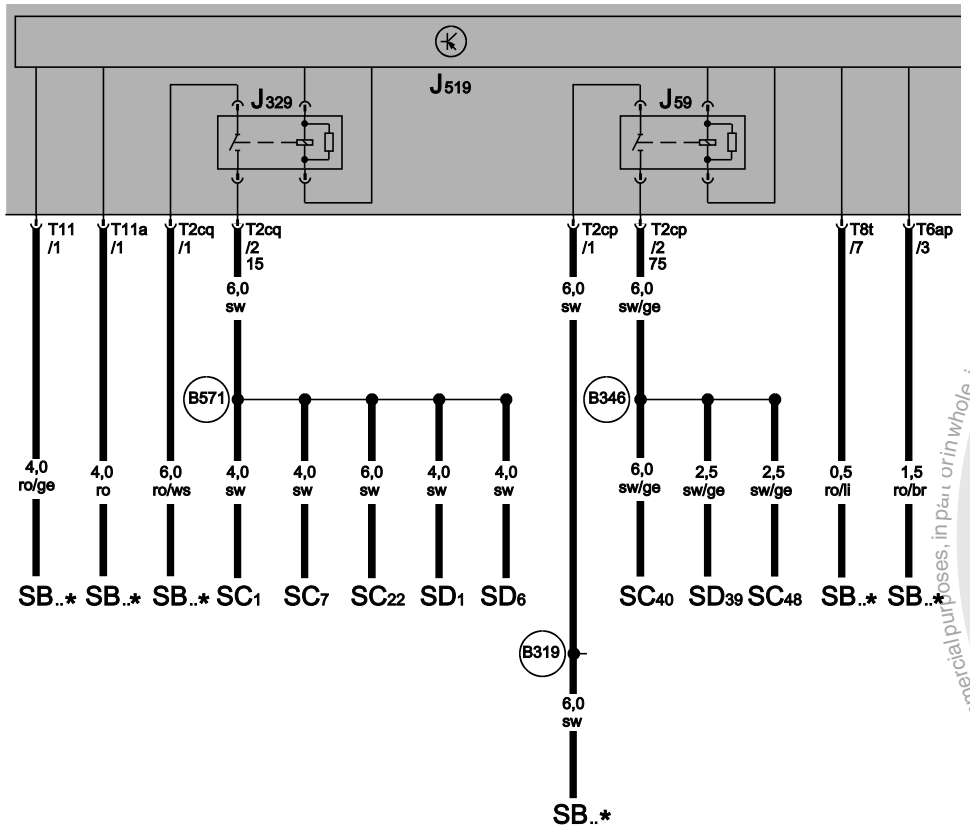
⇒ **Driving light assist**
⇒ **Rain and light sensor**
⇒ **Daytime running light**
From November 2004

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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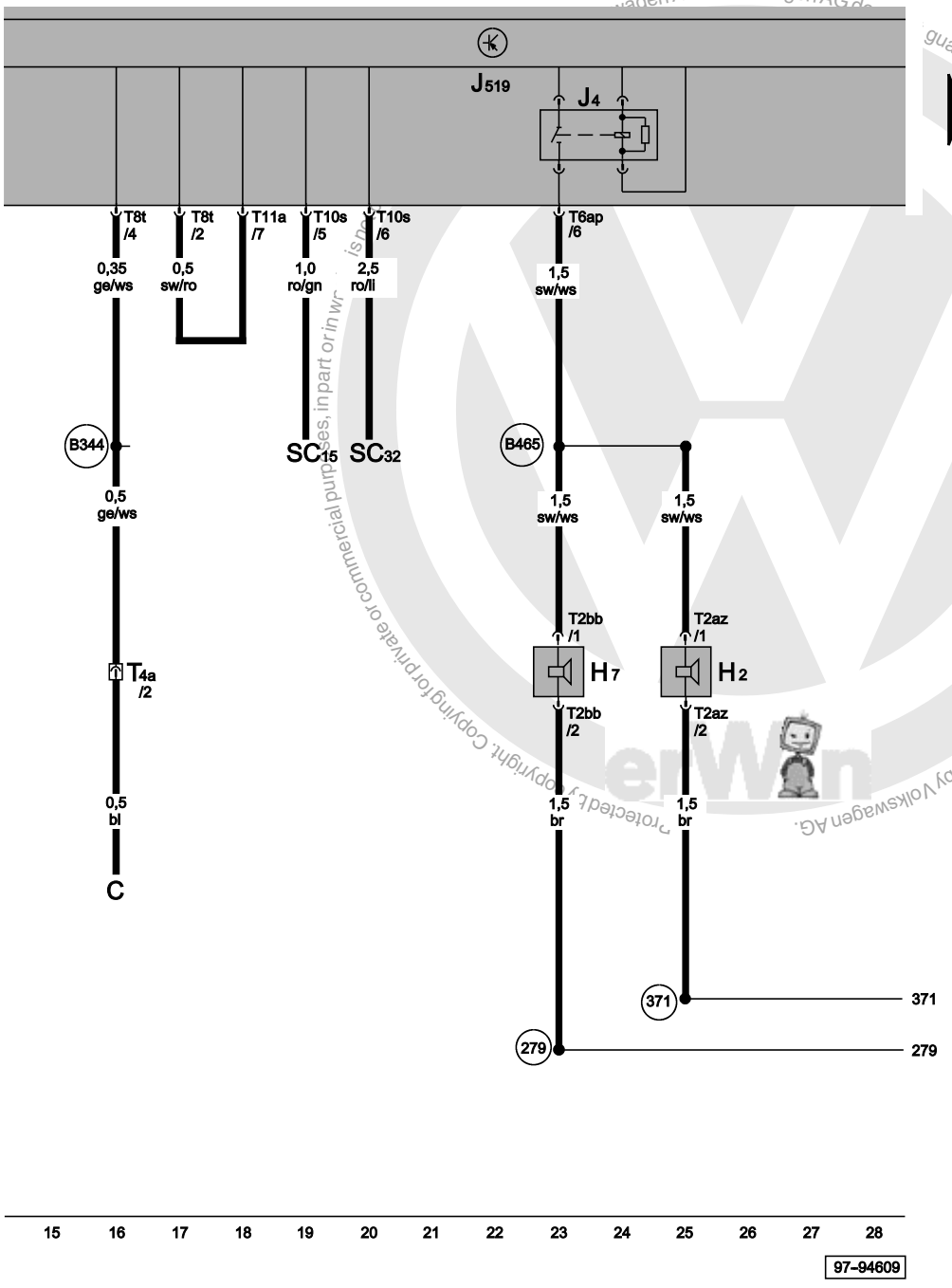


Onboard supply control unit, X-contact relief relay, terminal 15 voltage supply

J59	X-contact relief relay
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SB	Fuse holder B
SC1	Fuse 1 on fuse holder C
SC7	Fuse 7 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC40	Fuse 40 on fuse holder C
SC48	Fuse 48 on fuse holder C
SD1	Fuse 1 on fuse holder D
SD6	Fuse 6 on fuse holder D
SD39	Fuse 39 on fuse holder D
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T6ap	6-pin connector, black
T8t	8-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
B319	Connection 5 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B571	Connection 38, in main wiring harness
*	Fuse assignment depends on equipment, see Fitting Locations

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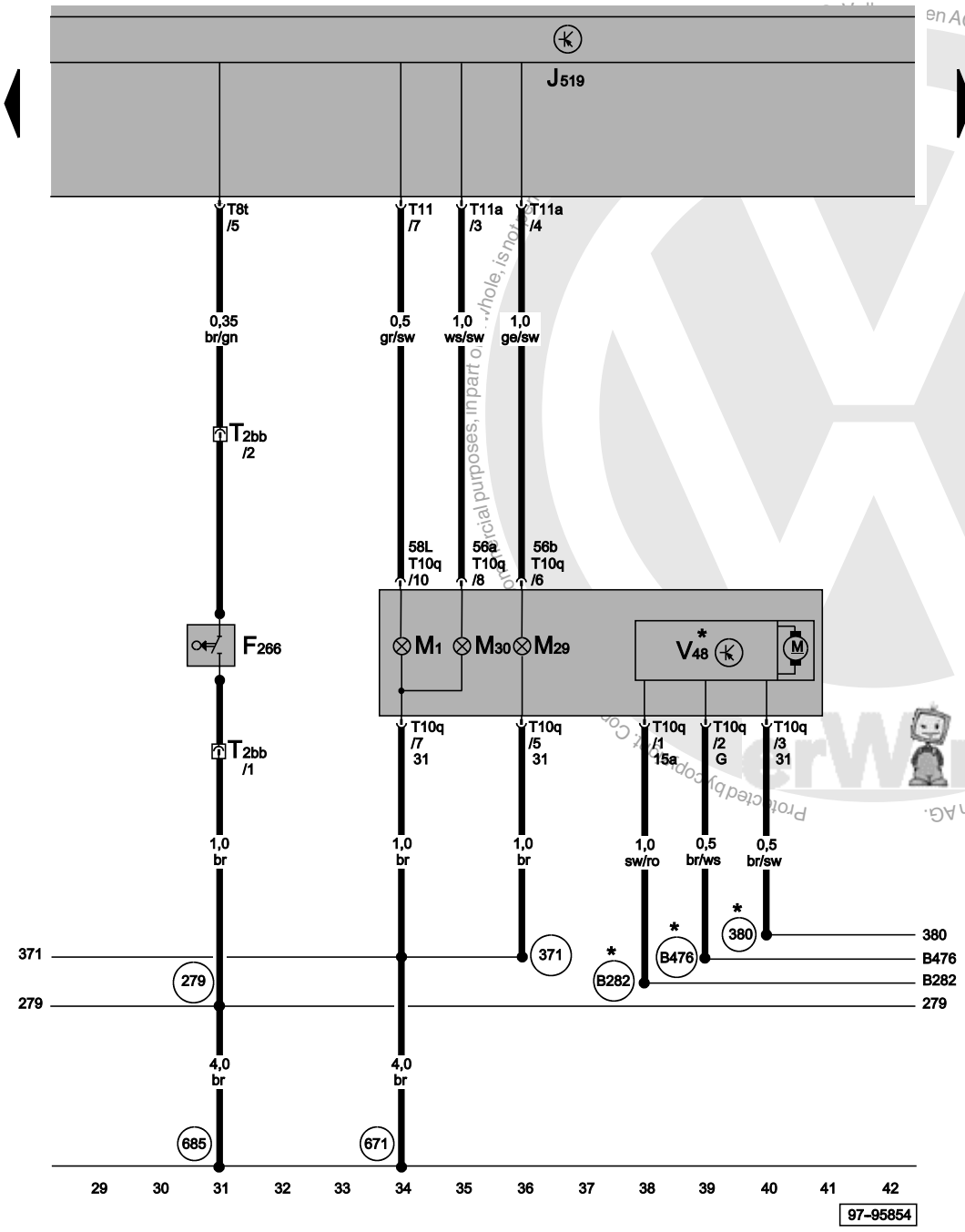


Relay for dual tone horn, treble tone horn, bass tone horn

C	Alternator
H2	Treble horn
H7	Bass horn
J4	Dual tone horn relay
J519	Onboard supply control unit
SC15	Fuse 15 on fuse holder C
SC32	Fuse 32 on fuse holder C
T2az	2-pin connector
T2bb	2-pin connector
T4a	4-pin connector, near starter
T6ap	6-pin connector, black
T8t	8-pin connector, black
T10s	10-pin connector, black
T11a	11-pin connector, brown
279	Earth connection 5, in interior wiring harness
371	Earth connection 6, in main wiring harness
B344	Connection 1 (61), in main wiring harness
B465	Connection 1, in main wiring harness

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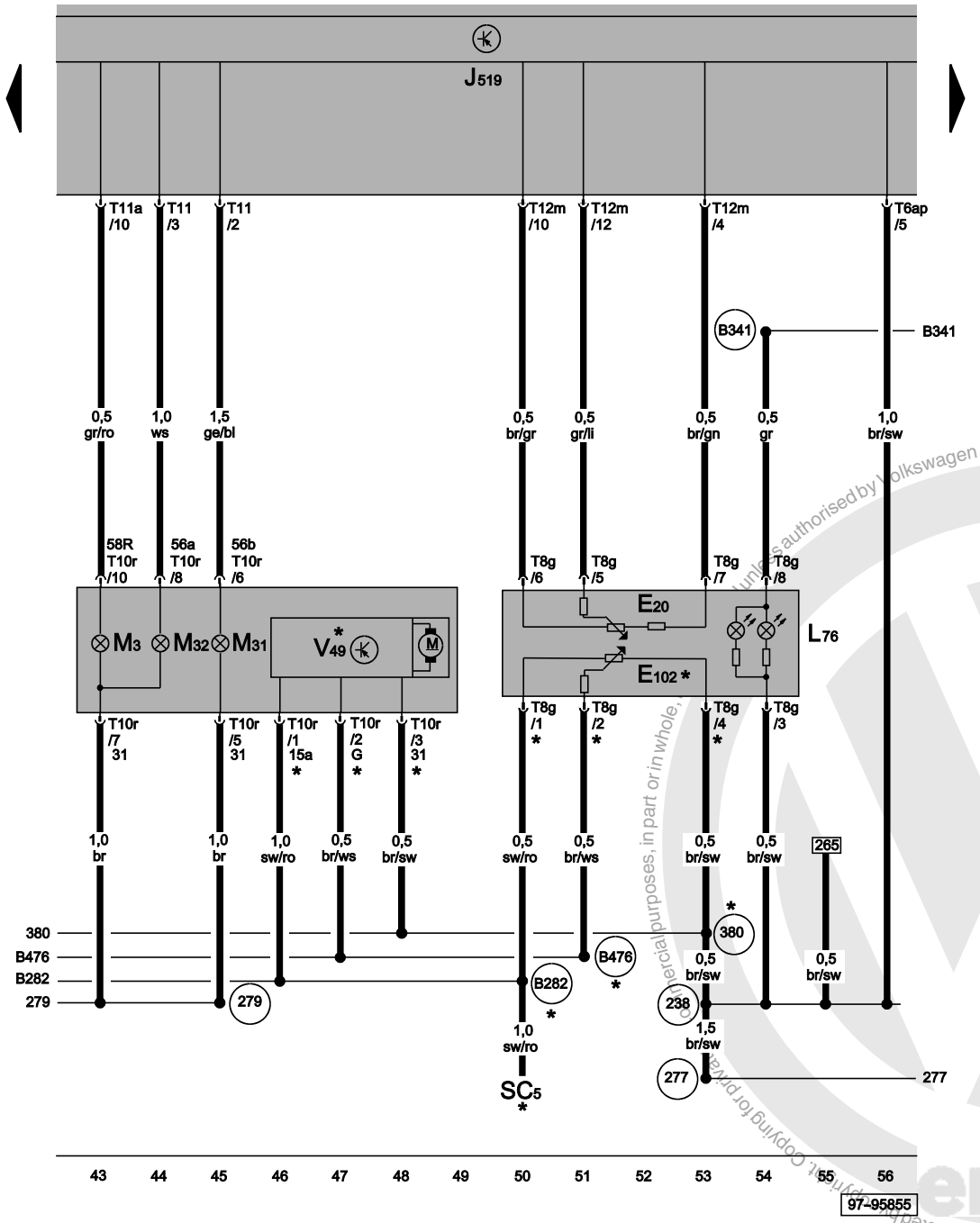


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Side light bulbs, left dipped beam and main beam headlight, left servomotor for headlight range control, bonnet contact switch

F266	Bonnet contact switch
J519	Onboard supply control unit
M1	Left side light bulb
M29	Left headlight dipped beam bulb
M30	Left headlight main beam bulb
T2bb	2-pin connector, black, behind right headlight
T8t	8-pin connector, black
T10q	10-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
V48	Left headlight range control motor
279	Earth connection 5, in interior wiring harness
371	Earth connection 6, in main wiring harness
380	Earth connection 15, in main wiring harness
671	Earth point 1, on front of left longitudinal member
685	Earth point 1 at front of right longitudinal member
B282	Connection 6 (15a), in main wiring harness
B476	Connection 12, in main wiring harness
*	Not for American markets, only with headlight range control

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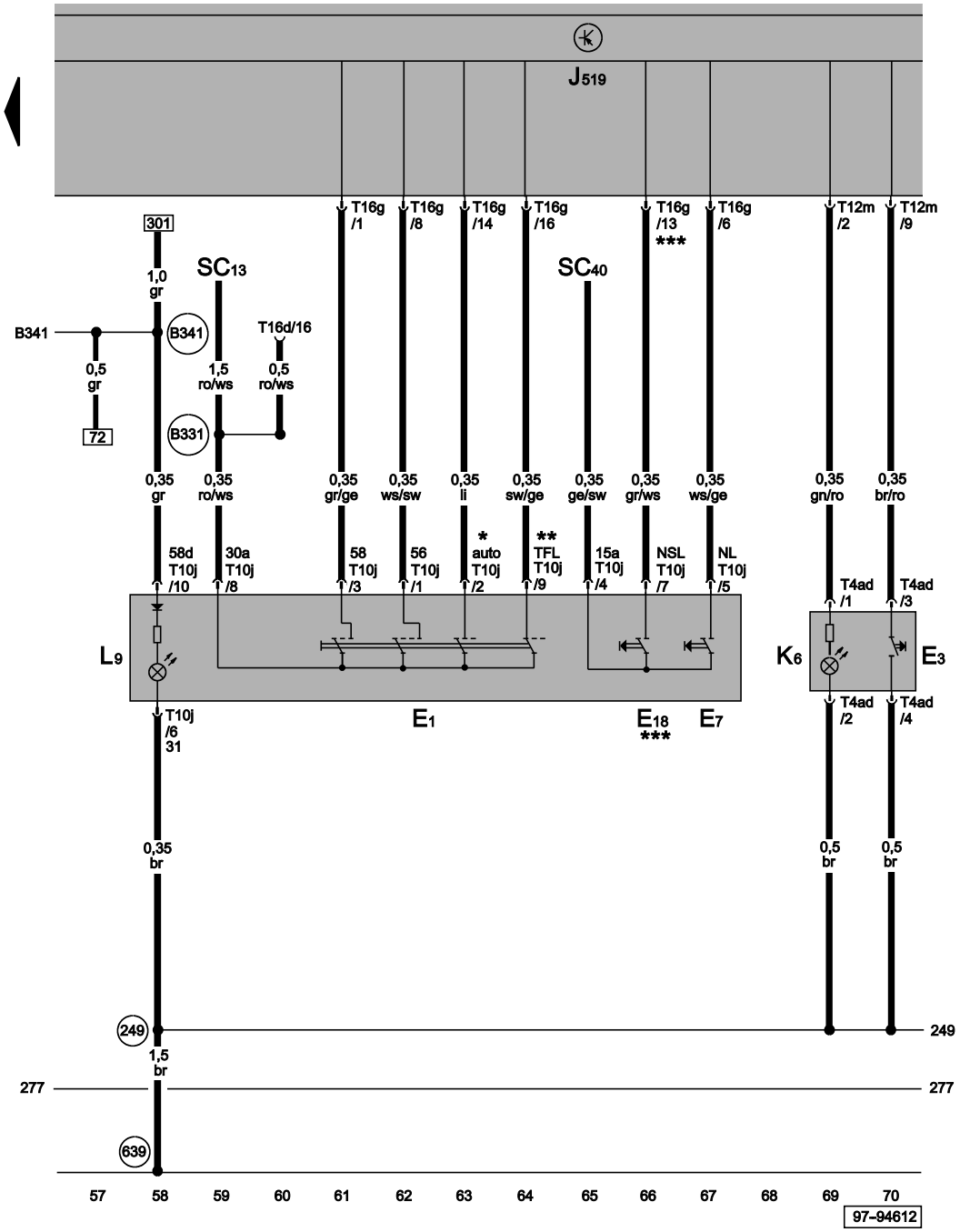


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Switches and instruments illumination regulator, headlight range control regulator, button illumination bulb

E20	Switch and instrument illumination regulator
E102	Headlight range control regulator
J519	Onboard supply control unit
L76	Button illumination bulb
M3	Right side light bulb
M31	Right headlight dipped beam bulb
M32	Right headlight main beam bulb
SC5	Fuse 5 on fuse holder C
T6ap	6-pin connector, black
T8g	8-pin connector
T10r	10-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T12m	12-pin connector, black
V49	Right headlight range control motor
(238)	Earth connection 1, in interior wiring harness
(277)	Earth connection 3, in interior wiring harness
(279)	Earth connection 5, in interior wiring harness
(380)	Earth connection 15, in main wiring harness
(B282)	Connection 6 (15a), in main wiring harness
(B341)	Connection 2 (58d), in main wiring harness
(B476)	Connection 12, in main wiring harness
*	Not for American markets, only with headlight range control

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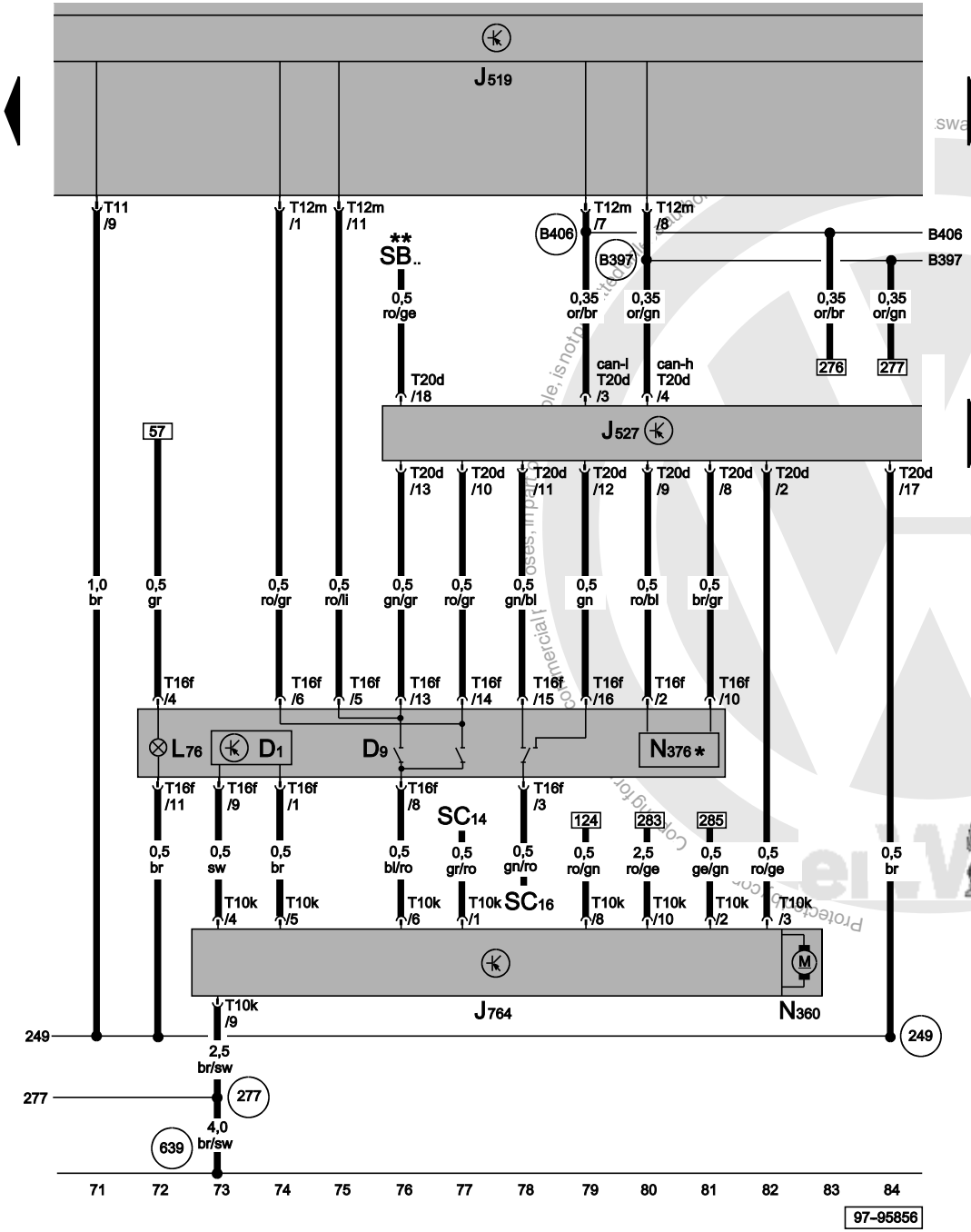


Light switch, fog light switch, light switch illumination bulb, hazard warning lights switch, self-diagnosis connection

E1	Light switch
E3	Hazard warning light switch
E7	Fog light switch
E18	Rear fog light switch
J519	Onboard supply control unit
K6	Indicator lamp for hazard warning light
L9	Light switch illumination bulb
SC13	Fuse 13 on fuse holder C
SC40	Fuse 40 on fuse holder C
T4ad	4-pin connector
T10j	10-pin connector
T12m	12-pin connector, black
T16d	16-pin connector, self-diagnosis connection
T16g	16-pin connector, black
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B331	Connection 17 (30a), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only models with driving light assist
**	Only models with daytime running light
***	Depends on equipment for American markets

ws	=	white
sw	=	black
ro	=	red
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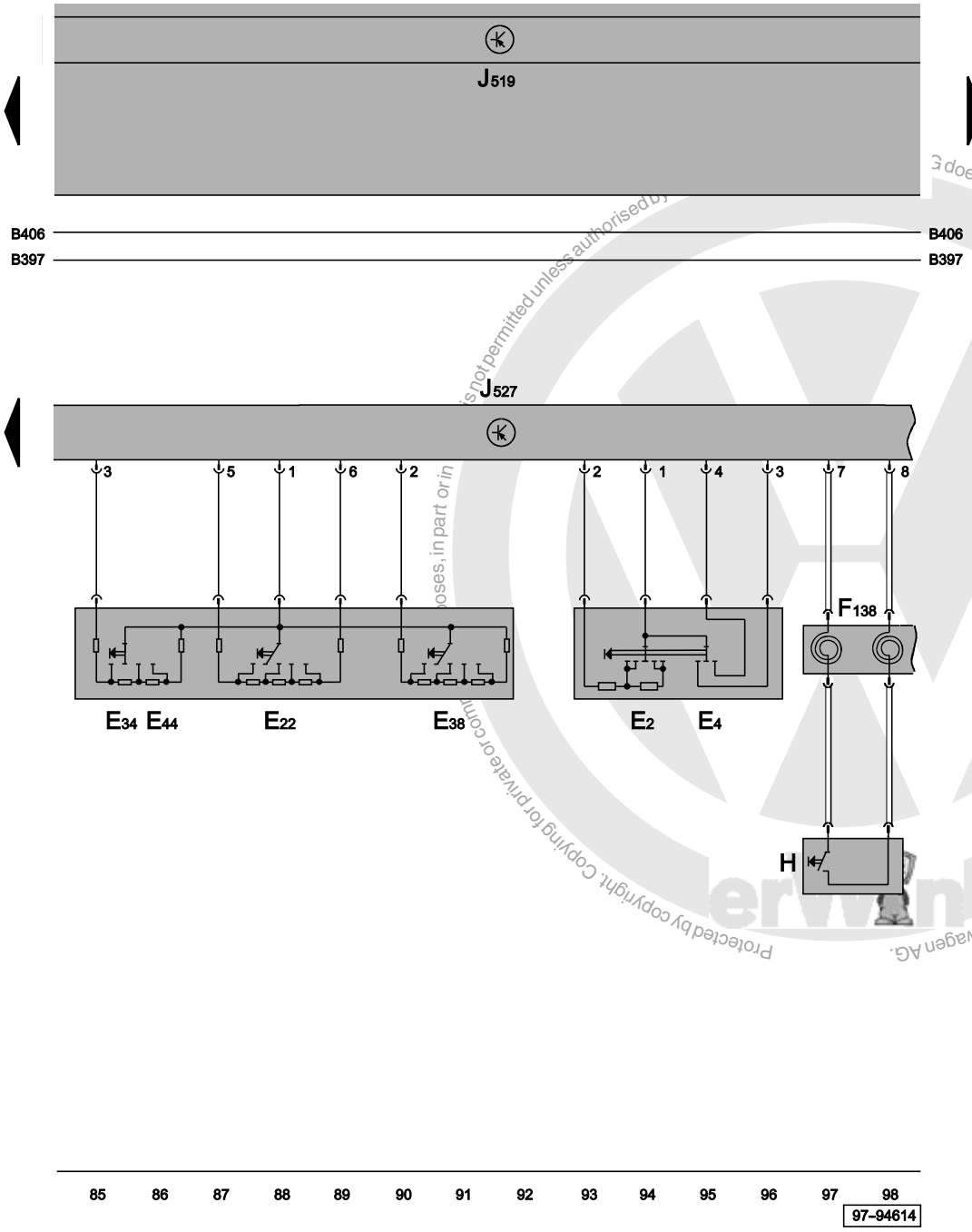


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Immobilizer reading unit, control unit for electronic steering column lock, control unit for steering column electronics, electronic ignition lock

D1	Immobiliser reading unit
D9	Electronic ignition lock
J519	Onboard supply control unit
J527	Steering column electronics control unit
J764	Electronic steering column lock control unit
L76	Button illumination bulb
N360	Steering column lock control element
N376	Ignition key withdrawal lock solenoid
SB	Fuse holder B
SC14	Fuse 14 on fuse holder C
SC16	Fuse 16 on fuse holder C
T10k	10-pin connector
T11	11-pin connector, black
T12m	12-pin connector, black
T16f	16-pin connector
T20d	20-pin connector
249	Earth connection 2, in interior wiring harness
277	Earth connection 3, in interior wiring harness
639	Earth point, left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only models with automatic gearbox
**	Fuse assignment depends on equipment, see Fitting Locations

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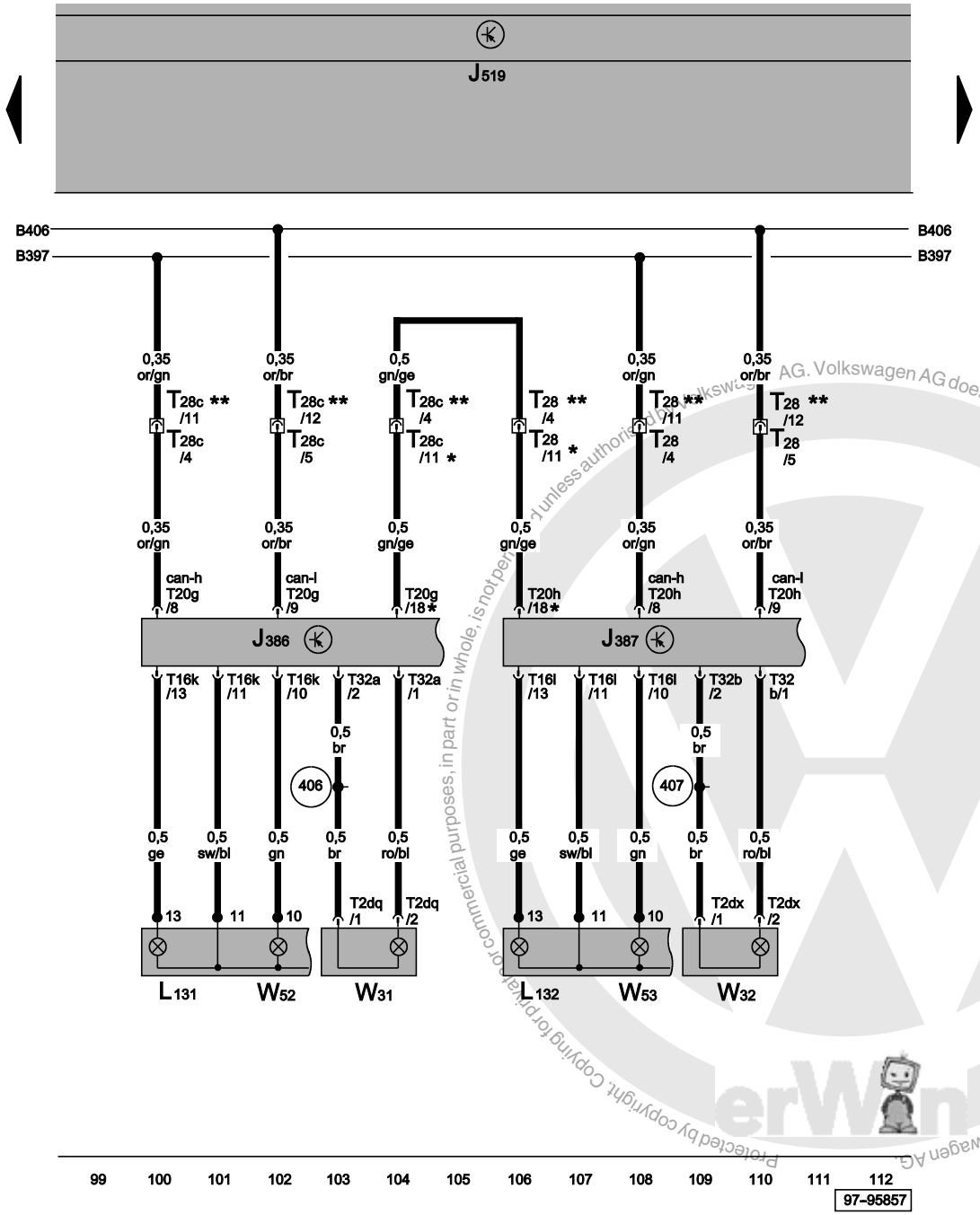


Turn signal switch, intermittent wiper switch, airbag coil connector, horn plate

E2	Turn signal switch
E4	Headlight dipper and flasher switch
E22	Intermittent wiper switch
E34	Rear wiper switch
E38	Intermittent wipe regulator
E44	Washer pump switch (automatic wash/wipe and headlight washer system)
F138	Airbag coil connector and return ring with slip ring
H	Horn plate
J519	Onboard supply control unit
J527	Steering column electronics control unit
<fo:exter	Flexible printed circuit
nal-graphic src="Z:/tools/png-convert/out//slp/ft_icons/rahmen.png" content-width="20pt" scaling="uniform"/>	

ws = white
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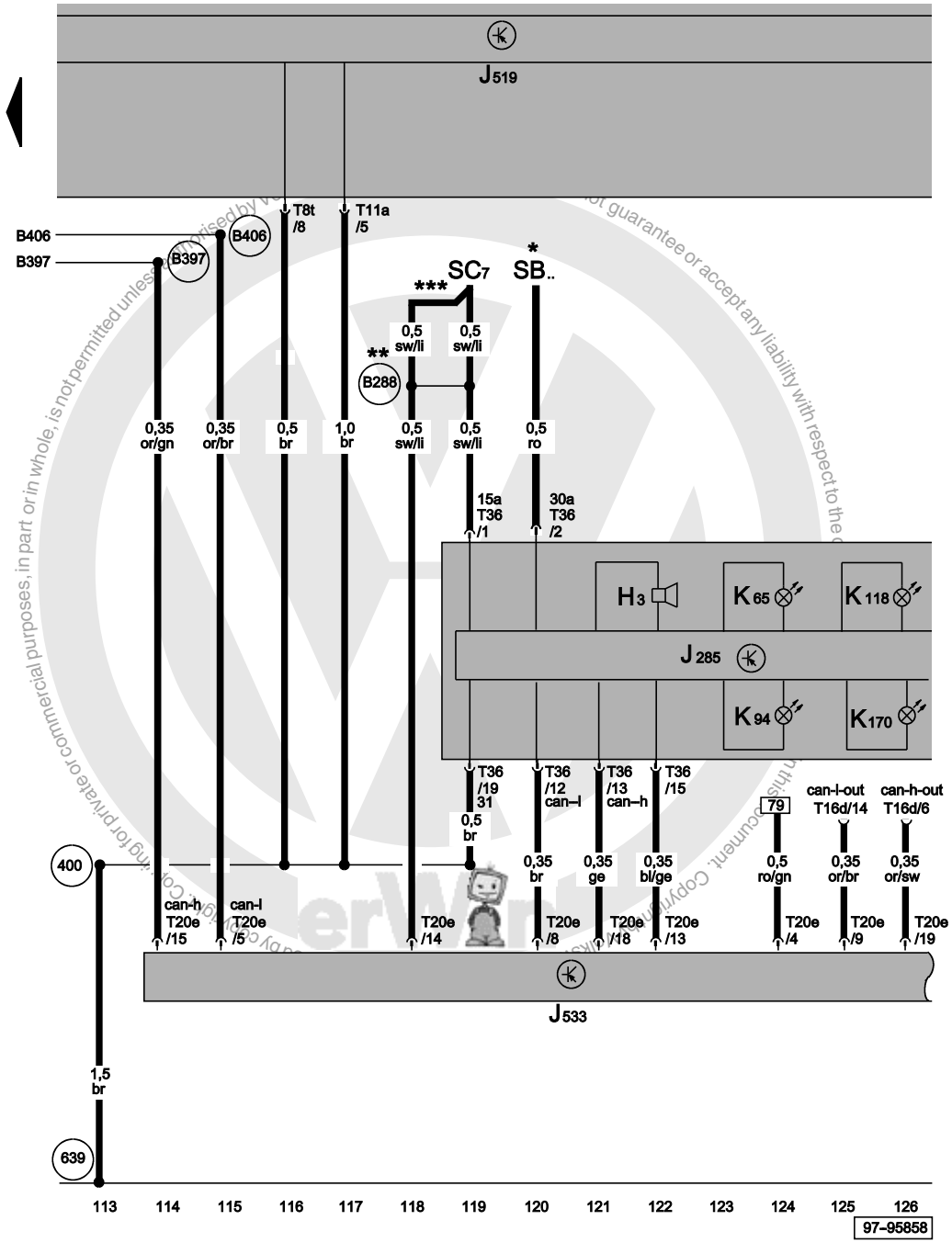


Driver and front passenger door control unit, entry lights, driver and front passenger exterior mirror turn signal bulb

J386	Driver door control unit
J387	Front passenger door control unit
J519	Onboard supply control unit
L131	Driver side exterior mirror turn signal bulb
L132	Front passenger side exterior mirror turn signal bulb
T2dq	2-pin connector
T2dx	2-pin connector
T16k	16-pin connector
T16l	16-pin connector
T20g	20-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T32a	32-pin connector
T32b	32-pin connector
W31	Front left entry light
W32	Front right entry light
W52	Driver side entry light in exterior mirror
W53	Front passenger side entry light in exterior mirror
406	Earth connection 3, in drive side door wiring harness
407	Earth connection 3, in front passenger side door wiring harness
*	Only American markets
**	Up to May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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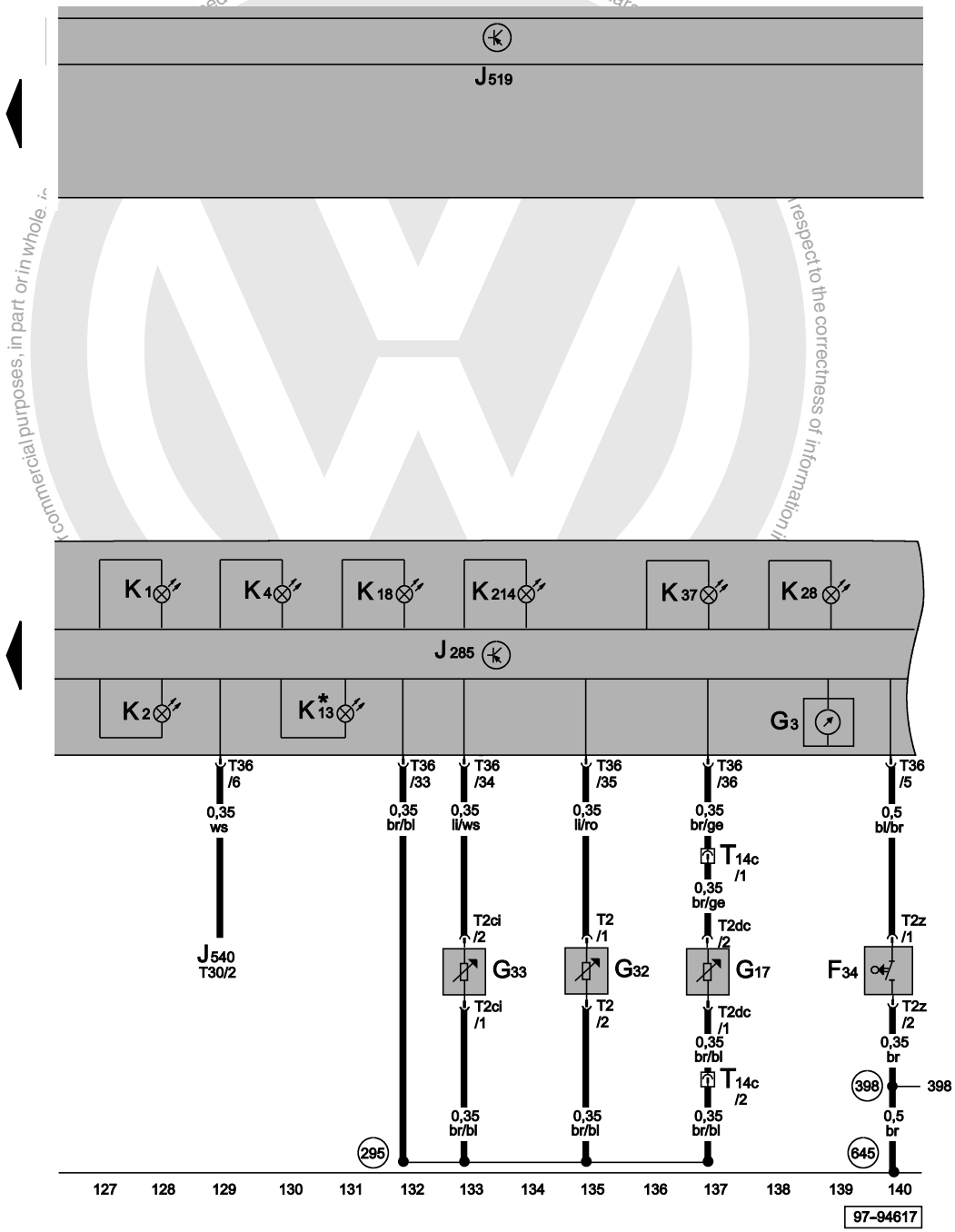


Dash panel insert, data bus diagnosis interface, warning lamps, warning lamp for bulb failure, self-diagnosis connection

H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnostic interface
K65	Left turn signal warning lamp
K94	Right turn signal warning lamp
K118	Brake system warning lamp
K170	Bulb failure warning lamp
SB	Fuse holder B
SC7	Fuse 7 on fuse holder C
T8t	8-pin connector, black
T11a	11-pin connector, brown
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T36	36-pin connector
400	Earth connection 35, in main wiring harness
639	Earth point, left A-pillar
B288	Connection 12 (15a), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Fuse assignment depends on equipment, see Fitting Locations
**	Up to May 2005
***	From May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

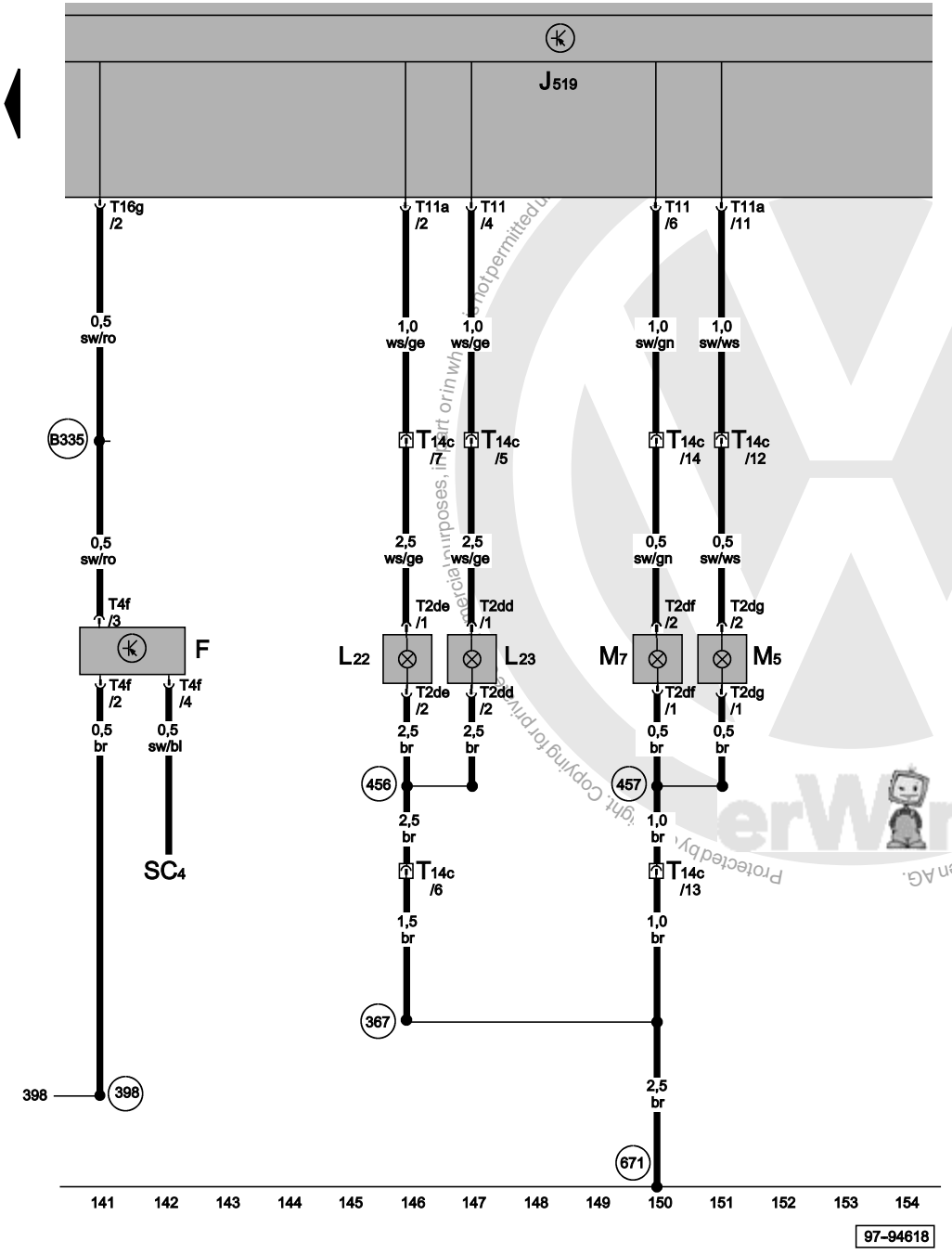
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Dash panel insert, ambient temperature sensor, coolant shortage indicator sender, washer fluid level sender

F34	Brake fluid level warning contact
G3	Coolant temperature gauge
G17	Ambient temperature sensor
G32	Coolant shortage indicator sender
G33	Windscreen washer fluid level sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
K1	Main beam warning lamp
K2	Alternator warning lamp
K4	Side light warning lamp
K13	Rear fog light warning lamp
K18	Trailer coupling warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K37	Washer fluid level warning lamp
K214	Electric parking brake and handbrake fault warning lamp
T2	2-pin connector
T2ci	2-pin connector
T2dc	2-pin connector
T2z	2-pin connector
T14c	14-pin connector, coupling point, front bumper
T30	30-pin connector
T36	36-pin connector
295	Earth connection 10, in interior wiring harness
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
*	Depends on equipment for American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

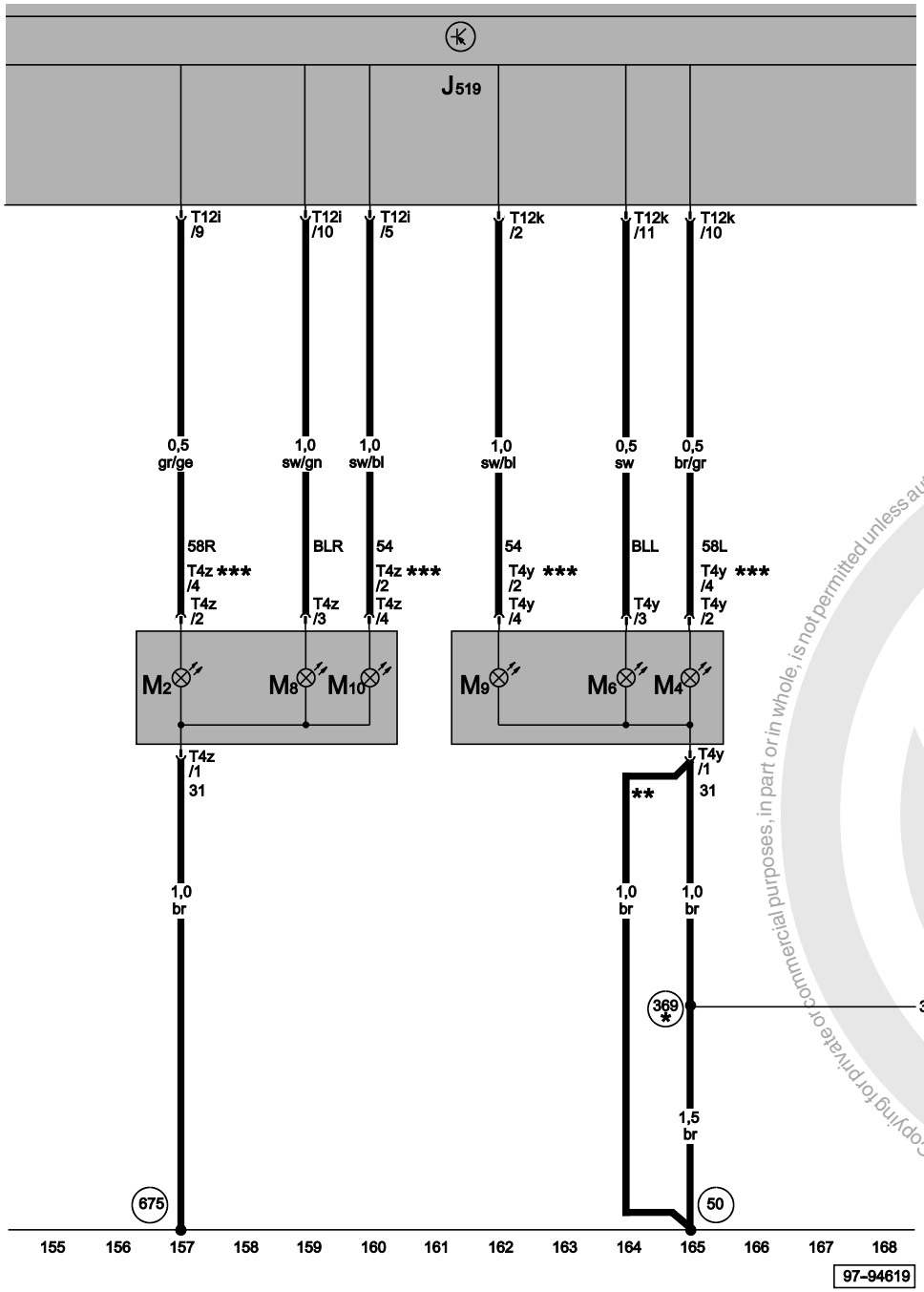


Turn signal and fog light bulbs, brake light switch

F	Brake light switch
J519	Onboard supply control unit
L22	Left fog light bulb
L23	Right fog light bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
SC4	Fuse 4 on fuse holder C
T2dd	2-pin connector
T2de	2-pin connector
T2df	2-pin connector
T2dg	2-pin connector
T4f	4-pin connector
T11	11-pin connector, black
T11a	11-pin connector, brown
T14c	14-pin connector, coupling point, front bumper
T16g	16-pin connector, black
367	Earth connection 2, in main wiring harness
398	Earth connection 33, in main wiring harness
456	Earth connection 1, front bumper wiring harness
457	Earth connection 2, front bumper wiring harness
671	Earth point 1, on front of left longitudinal member
B335	Connection 1 (54), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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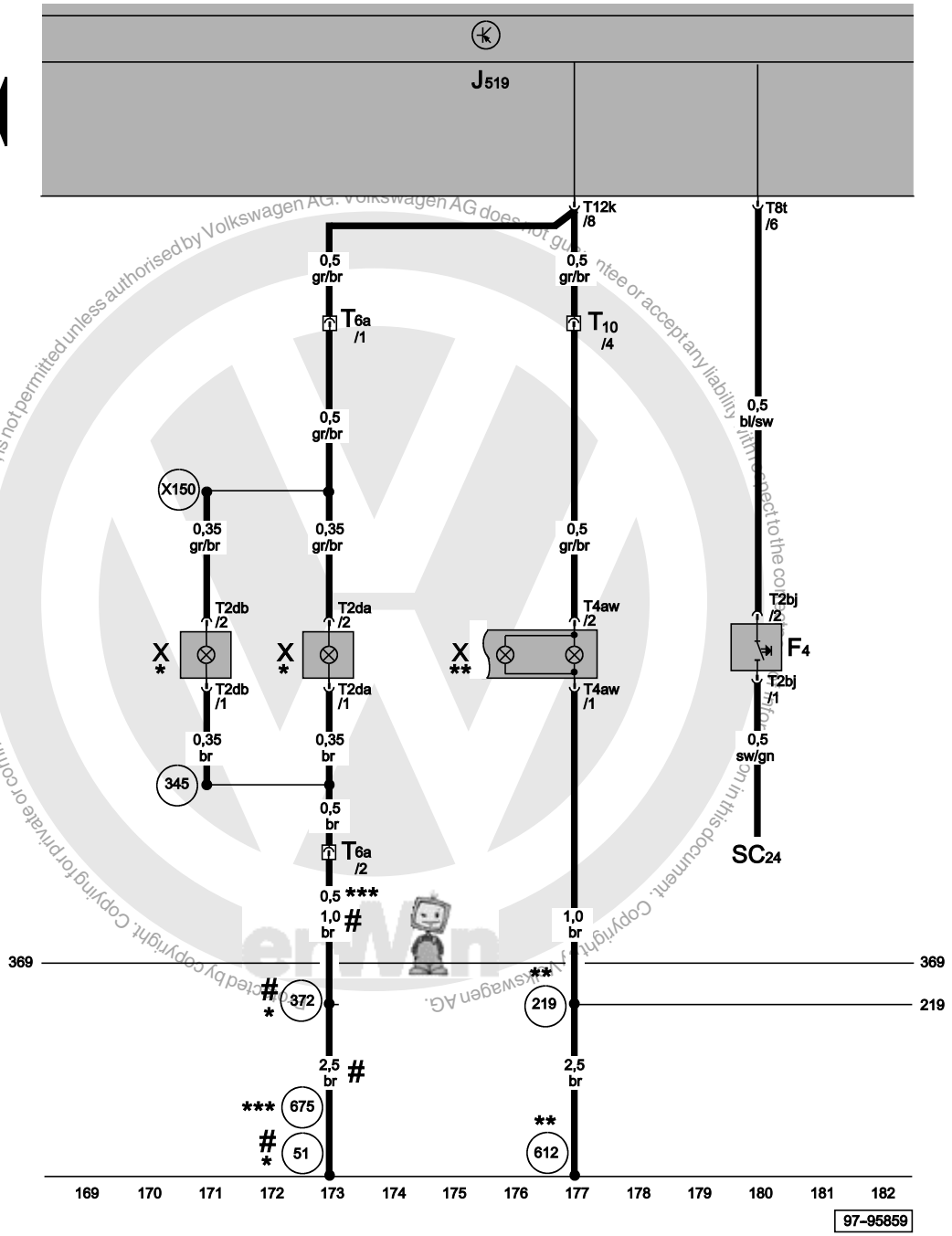


Bulbs for tail lights, turn signals, brake lights

J519	Onboard supply control unit
M2	Right tail light bulb
M4	Left tail light bulb
M6	Rear left turn signal bulb
M8	Rear right turn signal bulb
M9	Left brake light bulb
M10	Right brake light bulb
T4y	4-pin connector
T4z	4-pin connector
T12i	12-pin connector, black
T12k	12-pin connector, brown
50	Earth point, on left in luggage compartment
369	Earth connection 4, in main wiring harness
675	Earth point 2, on right in luggage compartment
*	Only on saloon models
**	Only Variant models
***	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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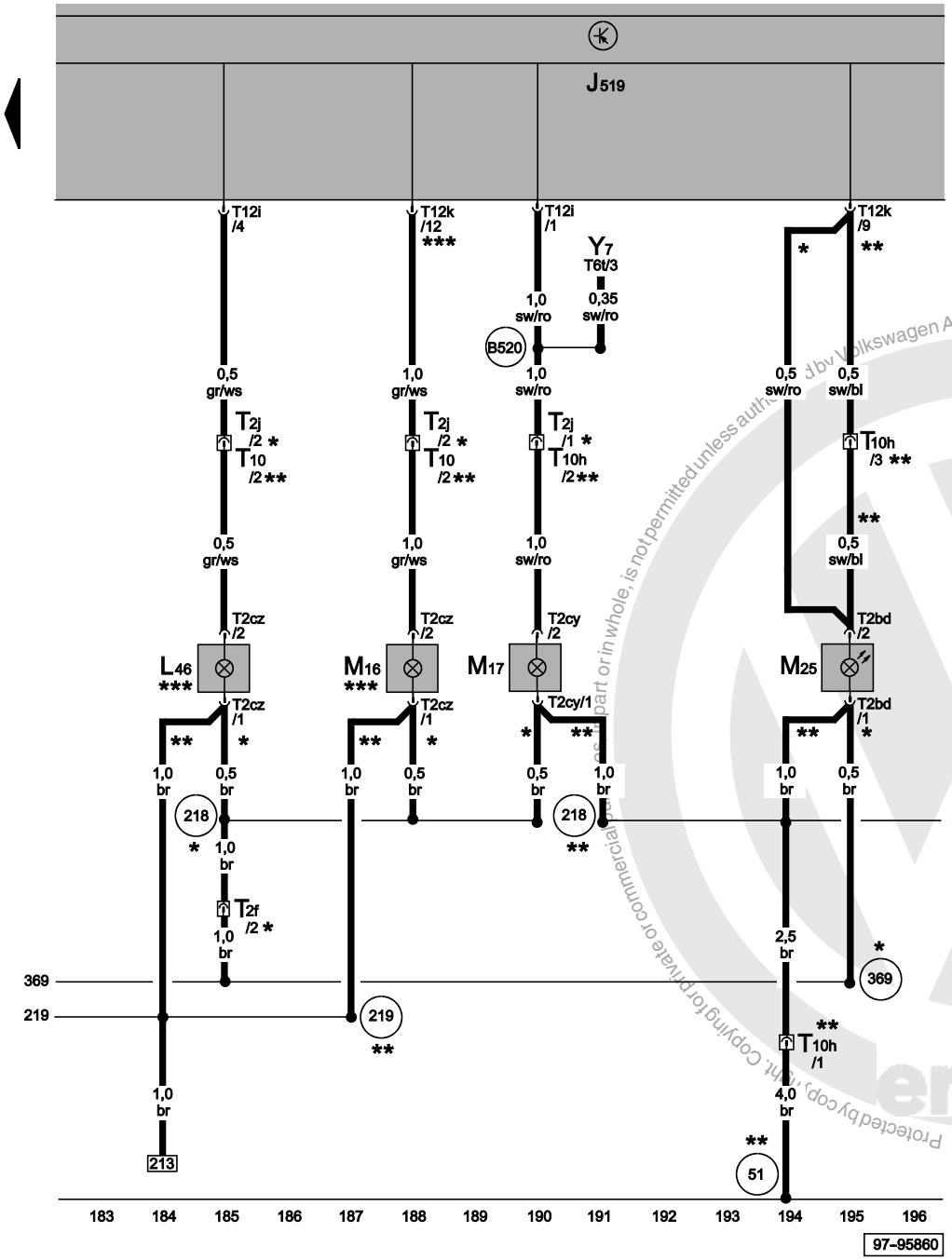


Licence plate light, reversing light switch

F4	Reversing light switch
J519	Onboard supply control unit
SC24	Fuse 24 on fuse holder C
T2bj	2-pin connector
T2da	2-pin connector
T2db	2-pin connector
T4aw	4-pin connector, coupling point licence plate light
T6a	6-pin connector, black, coupling point, licence plate illumination
T8t	8-pin connector, black
T10	10-pin connector, coupling point, on left of rear lid
T12k	12-pin connector, brown
X	Licence plate light
51	Earth point, on right in luggage compartment
219	Earth connection 2, in rear lid wiring harness
345	Earth connection, in bumper wiring harness
372	Earth connection 7, in main wiring harness
612	Earth point, centre on rear lid
675	Earth point 2, on right in luggage compartment
X150	Connection (58), rear bumper wiring harness
*	Only on saloon models
**	Only Variant models
***	From May 2005
#	Up to May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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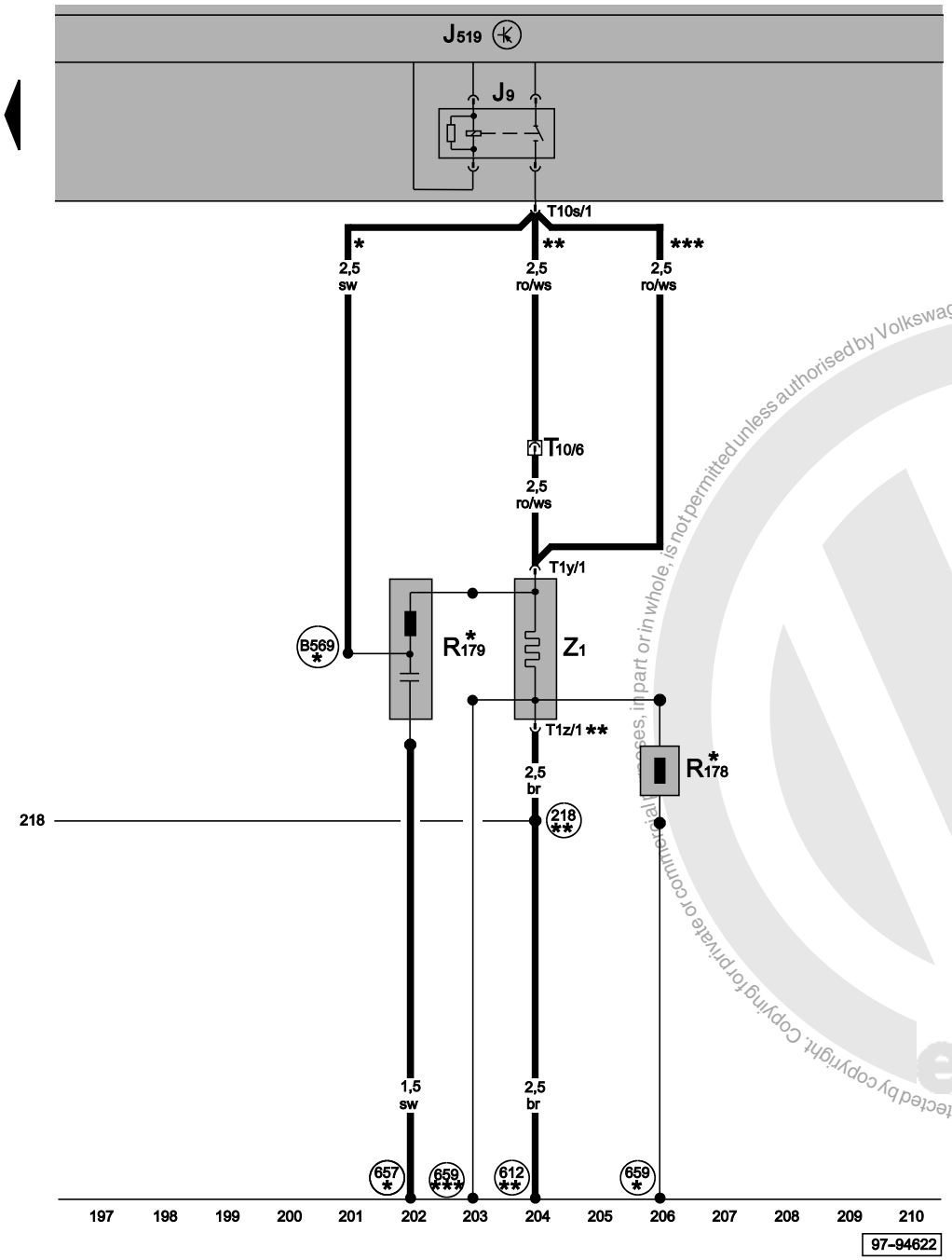


Right reversing light bulb, high level brake light bulb, rear left fog light bulb

J519	Onboard supply control unit
L46	Rear left fog light bulb
M16	Left reversing light bulb
M17	Right reversing light bulb
M25	High-level brake light bulb
T2bd	2-pin connector
T2cy	2-pin connector
T2cz	2-pin connector
T2f	2-pin connector, coupling point 2, rear lid
T2j	2-pin connector, coupling point 3, rear lid
T6t	6-pin connector
T10	10-pin connector, coupling point, on left of rear lid
T10h	10-pin connector, coupling point on right of rear lid
T12i	12-pin connector, black
T12k	12-pin connector, brown
Y7	Automatic anti-dazzle interior mirror
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
219	Earth connection 2, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
B520	Connection (RL), in main wiring harness
*	Only on saloon models
**	Only Variant models
***	Depends on equipment for American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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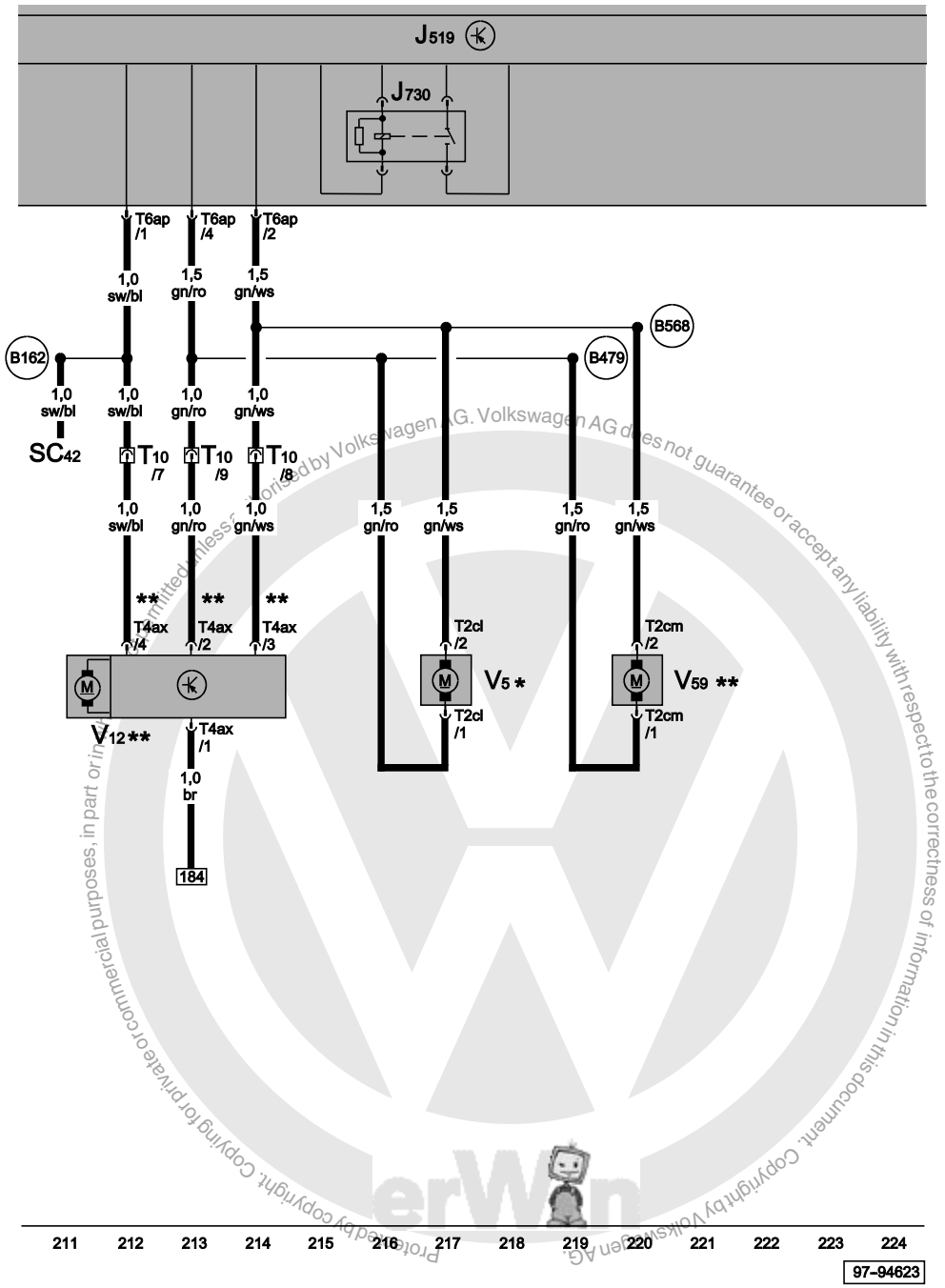


Heated rear window relay, heated rear window

J9	Heated rear window relay
J519	Onboard supply control unit
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T1y	1-pin connector, near rear window
T1z	1-pin connector, near rear window
T10	10-pin connector, coupling point, on left of rear lid
T10s	10-pin connector, black
Z1	Heated rear window
218	Earth connection 1, in rear lid wiring harness
612	Earth point, centre on rear lid
657	Earth point 1, on left near rear window
659	Earth point 1, on right near rear window
B569	Connection 36, in main wiring harness
*	Only on saloon models with heated rear window
**	Only Variant models
***	Only saloon with no heated rear window

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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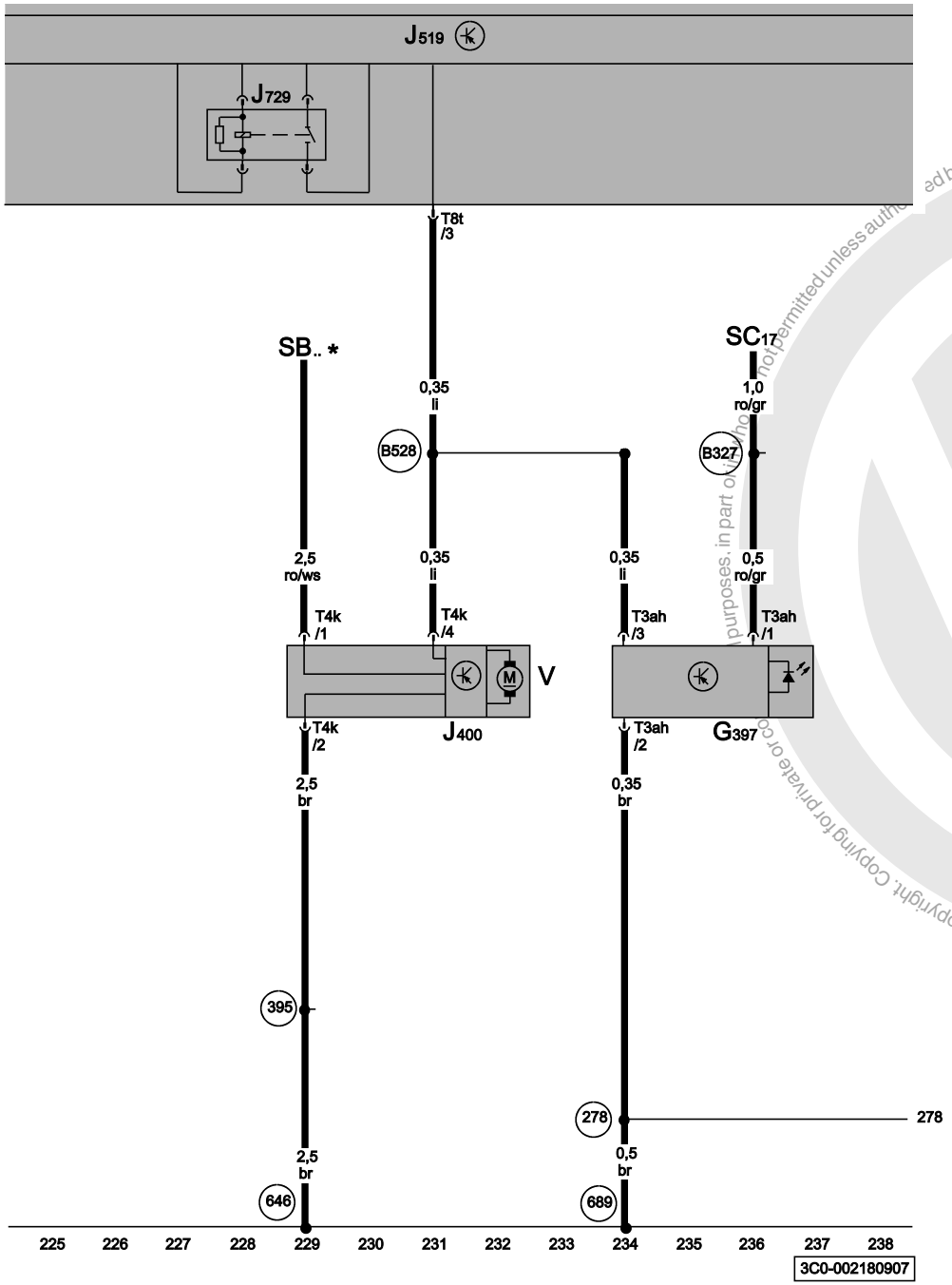


Rear window wiper motor, window washer pump, double washer pump relay 2

J519	Onboard supply control unit
J730	Double washer pump relay 2
SC42	Fuse 42 on fuse holder C
T2cl	2-pin connector
T2cm	2-pin connector
T4ax	4-pin connector
T6ap	6-pin connector, black
T10	10-pin connector, coupling point, on left of rear lid
V5	Washer pump
V12	Rear window wiper motor
V59	Windscreen and rear window washer pump
B162	Connection (75a), in interior wiring harness
B479	Connection 15, in main wiring harness
B568	Connection 35, in main wiring harness
*	Only on saloon models
**	Only Variant models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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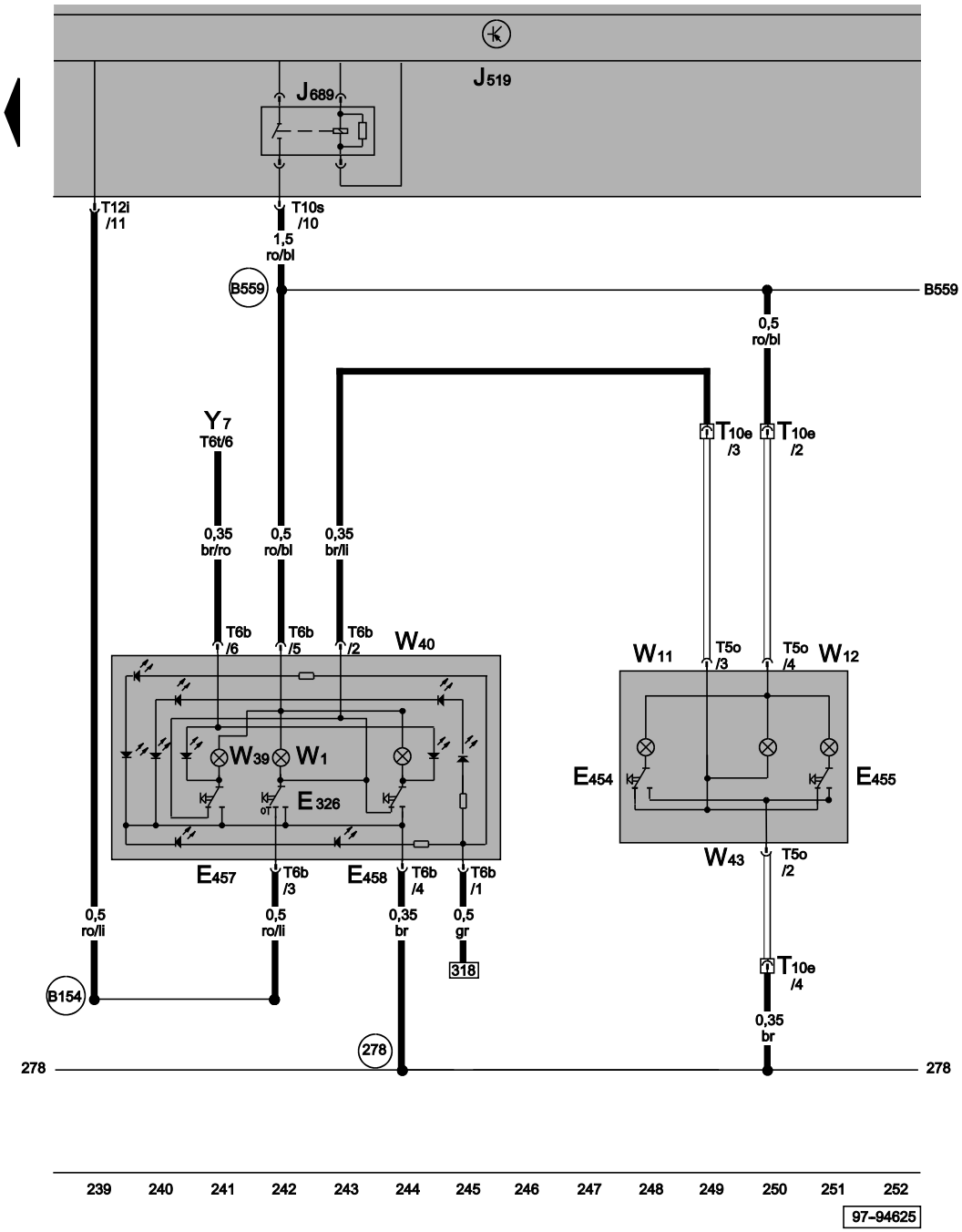


Rain and light sensor, wiper motor control unit, double washer pump relay 1

G397	Rain and light sensor
J400	Wiper motor control unit
J519	Onboard supply control unit
J729	Double washer pump relay 1
SB	Fuse holder B
SC17	Fuse 17 on fuse holder C
T3ah	3-pin connector
T4k	4-pin connector
T8t	8-pin connector, black
V	Windscreen wiper motor
278	Earth connection 4, in interior wiring harness
395	Earth connection 30, in main wiring harness
646	Earth point 2, on bulkhead
689	Earth point, front centre in roof
B327	Connection 13 (30a), in main wiring harness
B528	Connection 1 (LIN bus), in main wiring harness
*	Fuse assignment depends on equipment, see Fitting Locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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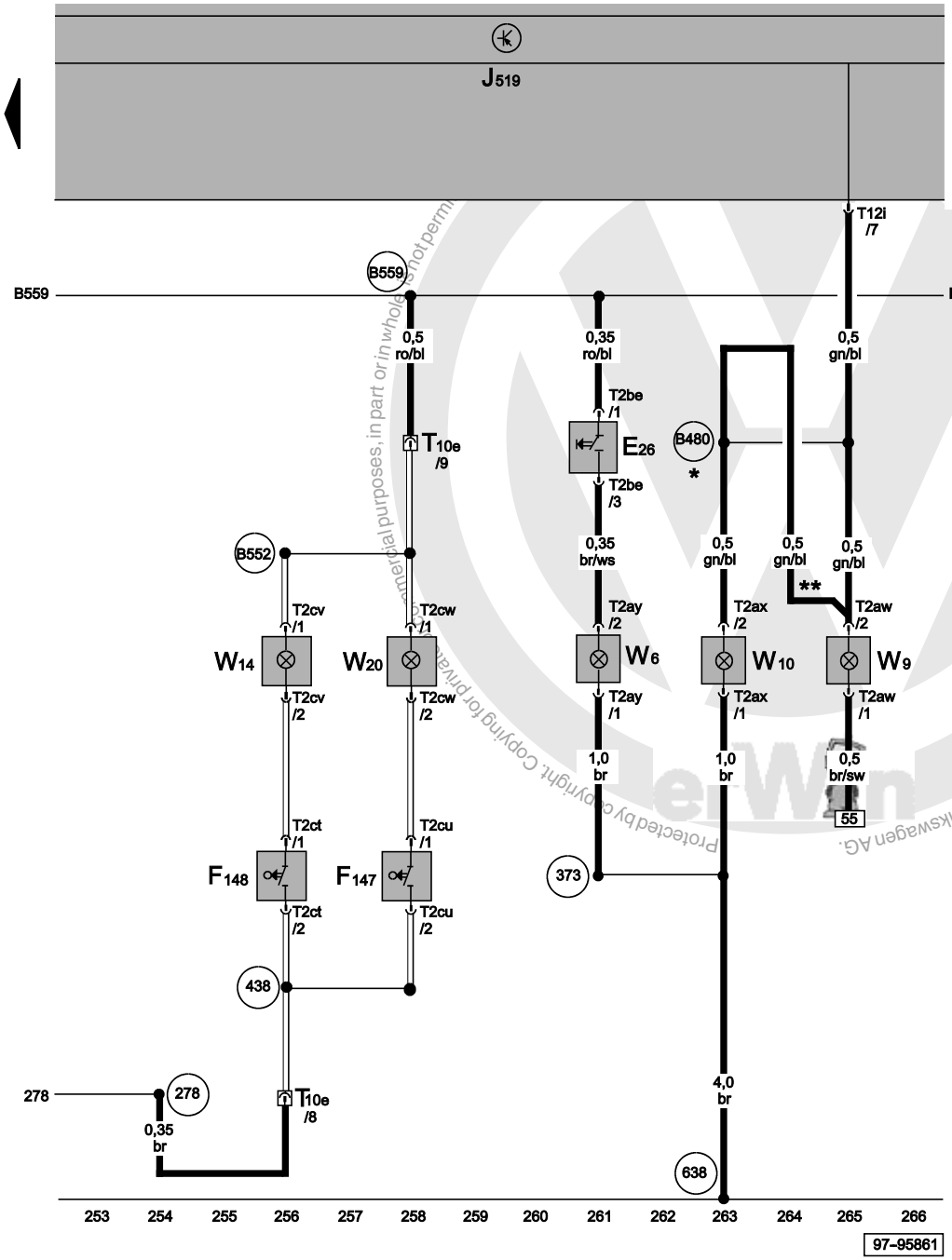


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Front interior light, rear left reading light, rear right reading light, centre left reading light, centre right reading light, rear interior light

E326	Front interior light button
E454	Rear left reading light switch
E455	Rear right reading light switch 1
E457	Driver side reading light button
E458	Front passenger side reading light button
J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
T5o	5-pin connector
T6b	6-pin connector
T6t	6-pin connector
T10e	10-pin connector, blue, coupling point in roof wiring harness
T10s	10-pin connector, black
T12i	12-pin connector, black
W1	Front interior light
W11	Rear left reading light
W12	Rear right reading light
W39	Left centre reading light
W40	Right centre reading light
W43	Rear interior light
Y7	Automatic anti-dazzle interior mirror
278	Earth connection 4, in interior wiring harness
B154	Connection 1 (DCt), in interior wiring harness
B559	Connection 1 (30g), in main wiring harness
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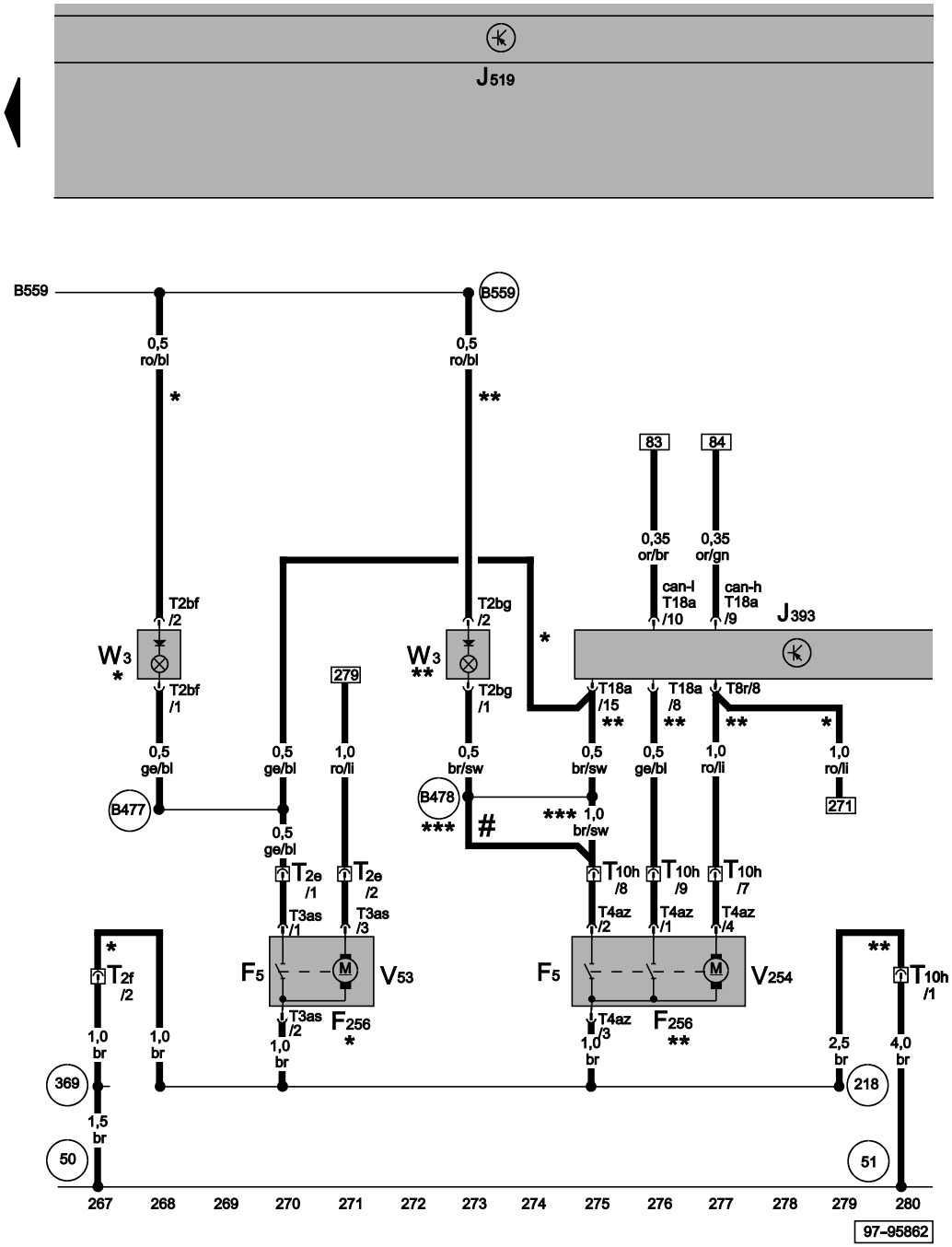
ws = white

Contact switches for vanity mirrors on driver and front passenger side, glove compartment light, footwell lights

E26	Glove compartment light switch
F147	Contact switch for vanity mirror, driver side
F148	Contact switch for vanity mirror, front passenger side
J519	Onboard supply control unit
T2aw	2-pin connector
T2ax	2-pin connector
T2ay	2-pin connector
T2be	2-pin connector
T2ct	2-pin connector
T2cu	2-pin connector
T2cv	2-pin connector
T2cw	2-pin connector
T10e	10-pin connector, blue, coupling point for roof wiring harness
T12i	12-pin connector, black
W6	Glove compartment light
W9	Left footwell light
W10	Right footwell light
W14	Illuminated vanity mirror, front passenger side
W20	Illuminated vanity mirror, driver side
278	Earth connection 4, in interior wiring harness
373	Earth connection 8, in main wiring harness
438	Earth connection 3, in roof wiring harness
638	Earth point, on right A-pillar
B480	Connection 16, in main wiring harness
B552	Positive connection 2, in roof wiring harness
B559	Connection 1 (30g), in main wiring harness
*	Up to May 2005
**	From May 2005
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/	Flexible printed circuit

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ro	=	red	ng"
br	=	brown	content-
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ge	=	yellow	>
or	=	orange	
rs	=	pink	

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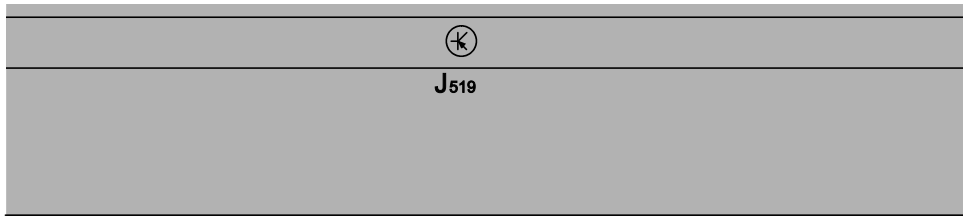


Convenience system central control unit, luggage compartment light, rear lid central locking motor

F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2bf	2-pin connector
T2bg	2-pin connector
T2e	2-pin connector, coupling point, rear lid (saloon)
T2f	2-pin connector, coupling point, rear lid (saloon)
T3as	3-pin connector, rear lid lock (saloon)
T4az	4-pin connector, rear lid lock (Variant)
T8r	8-pin connector
T10h	10-pin connector, coupling point, rear lid (Variant)
T18a	18-pin connector
V53	Rear lid central locking motor
W3	Luggage compartment light
50	Earth point, on left in luggage compartment
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
B477	Connection 13, in main wiring harness
B478	Connection 14, in main wiring harness
B559	Connection 1 (30g), in main wiring harness
*	Only on saloon models
**	Only Variant models
***	Up to May 2005
#	From May 2005

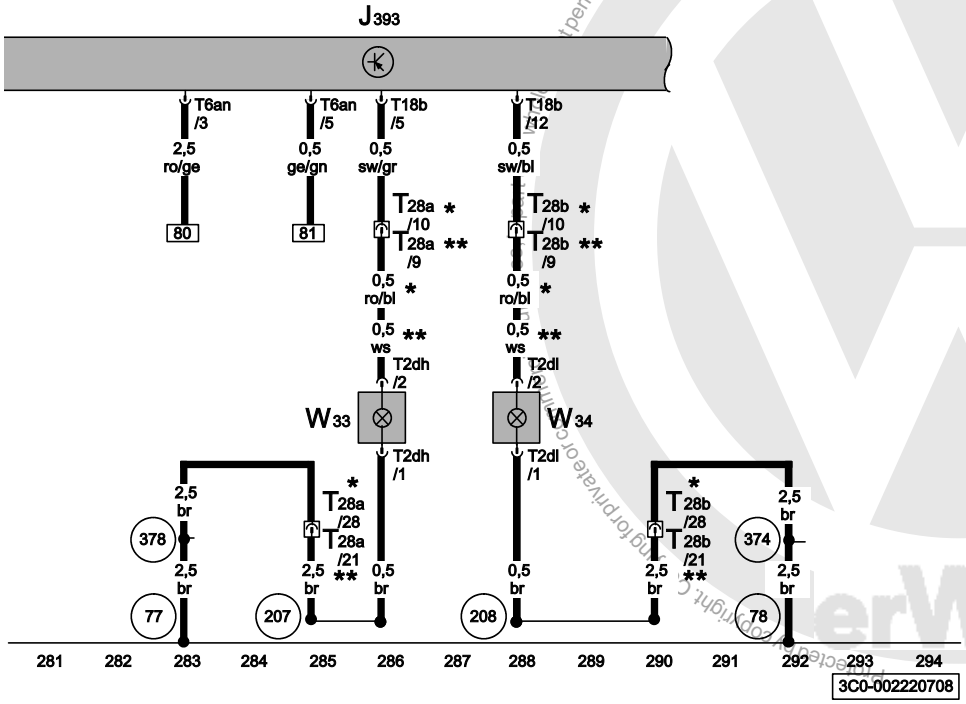
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ro	=	red
br	=	brown
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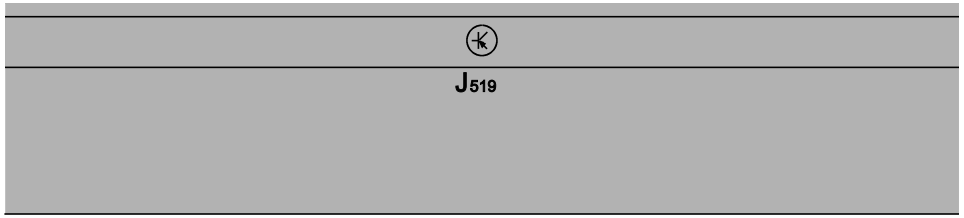
Central control unit for convenience system, rear left and right entry light

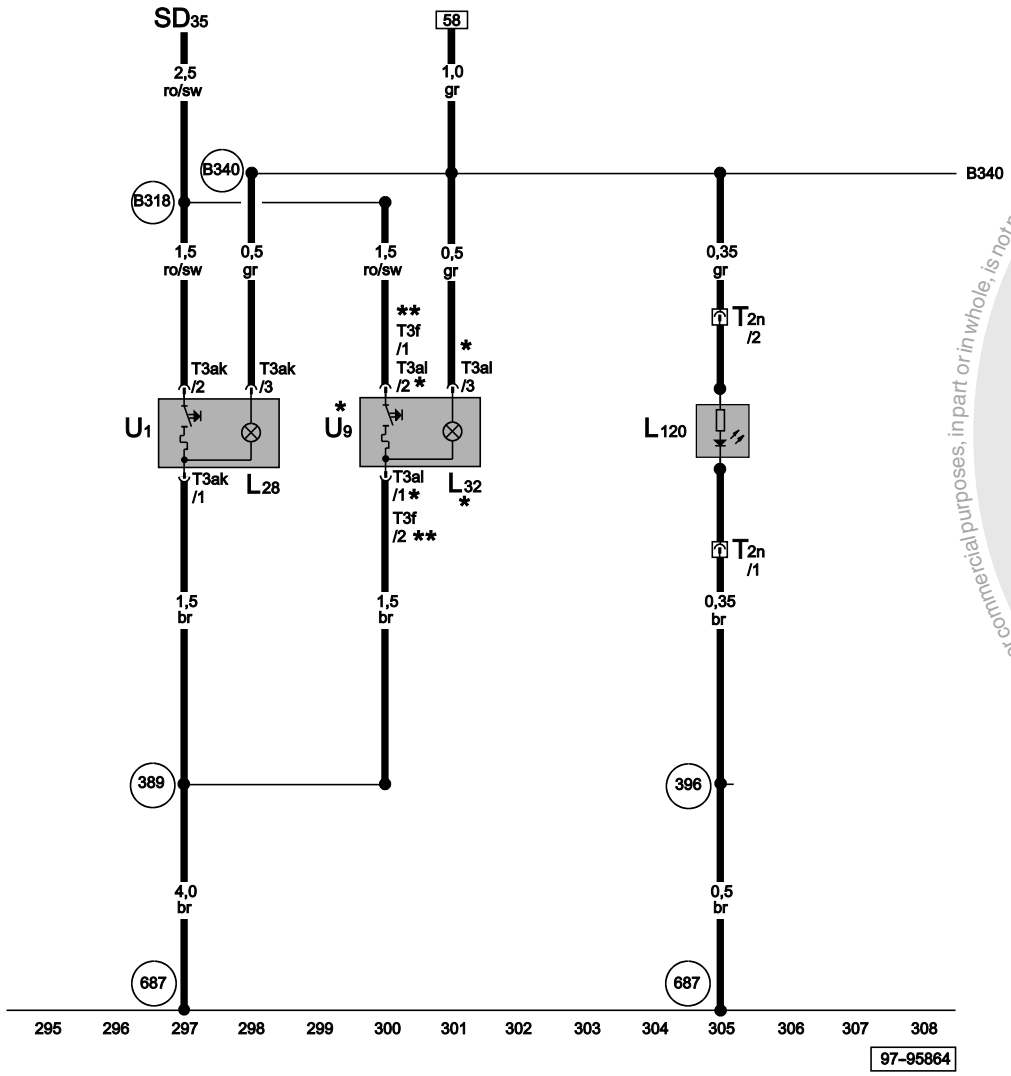
J393	Convenience system central control unit
J519	Onboard supply control unit
T2dh	2-pin connector
T2dl	2-pin connector
T6an	6-pin connector
T18b	18-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
W33	Rear left entry light
W34	Rear right entry light
77	Earth point, lower part of left B-pillar
78	Earth point, lower part of right B-pillar
207	Earth connection, in rear left door wiring harness
208	Earth connection, in rear right door wiring harness
374	Earth connection 9, in main wiring harness
378	Earth connection 13, in main wiring harness
*	Up to May 2005
**	From May 2005



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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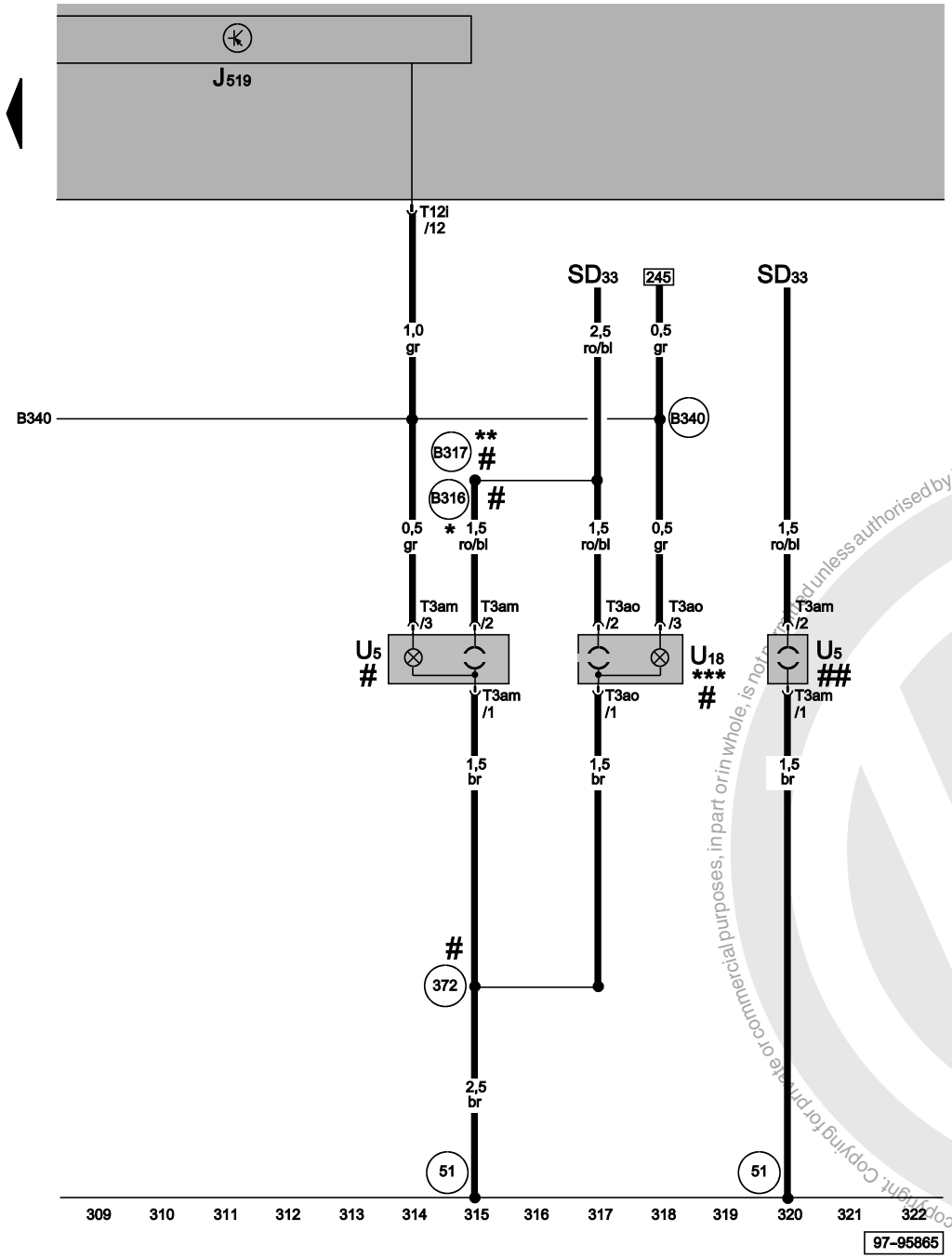


Cigarette lighter, storage compartment illumination bulb

J519	Onboard supply control unit
L28	Cigarette lighter illumination bulb
L32	Rear cigarette lighter illumination bulb
L120	Storage compartment illumination bulb
SD35	Fuse 35 on fuse holder D
T2n	2-pin connector, centre console
T3ak	3-pin connector
T3al	3-pin connector
T3f	3-pin connector, black
U1	Cigarette lighter
U9	Rear cigarette lighter
389	Earth connection 24, in main wiring harness
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B318	Connection 4 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
*	Up to May 2005
**	From May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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12 V sockets

J519	Onboard supply control unit
SD33	Fuse 33 on fuse holder D
T3am	3-pin connector
T3ao	3-pin connector
T12i	12-pin connector, black
U5	12 V socket, in luggage compartment
U18	12 V socket 2, in luggage compartment
51	Earth point, on right in luggage compartment
372	Earth connection 7, in main wiring harness
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B316	Connection 2 (30a), in main wiring harness
B317	Connection 2 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
*	Only on saloon models
**	Only Variant models
***	Depends on equipment
#	Up to May 2005
##	From May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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1.9 l/77 kW - Turbodiesel, engine codes BKC

from November 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

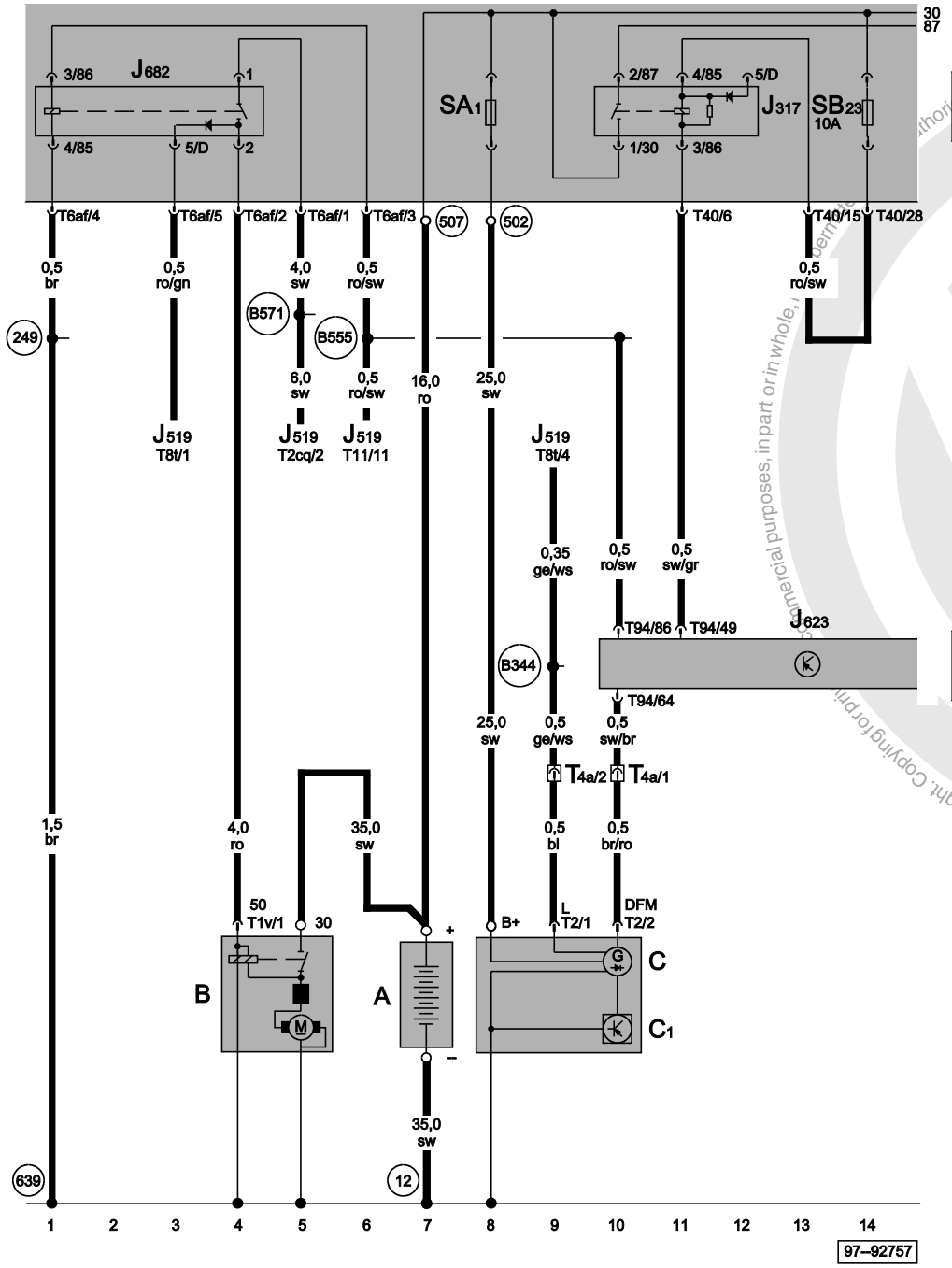
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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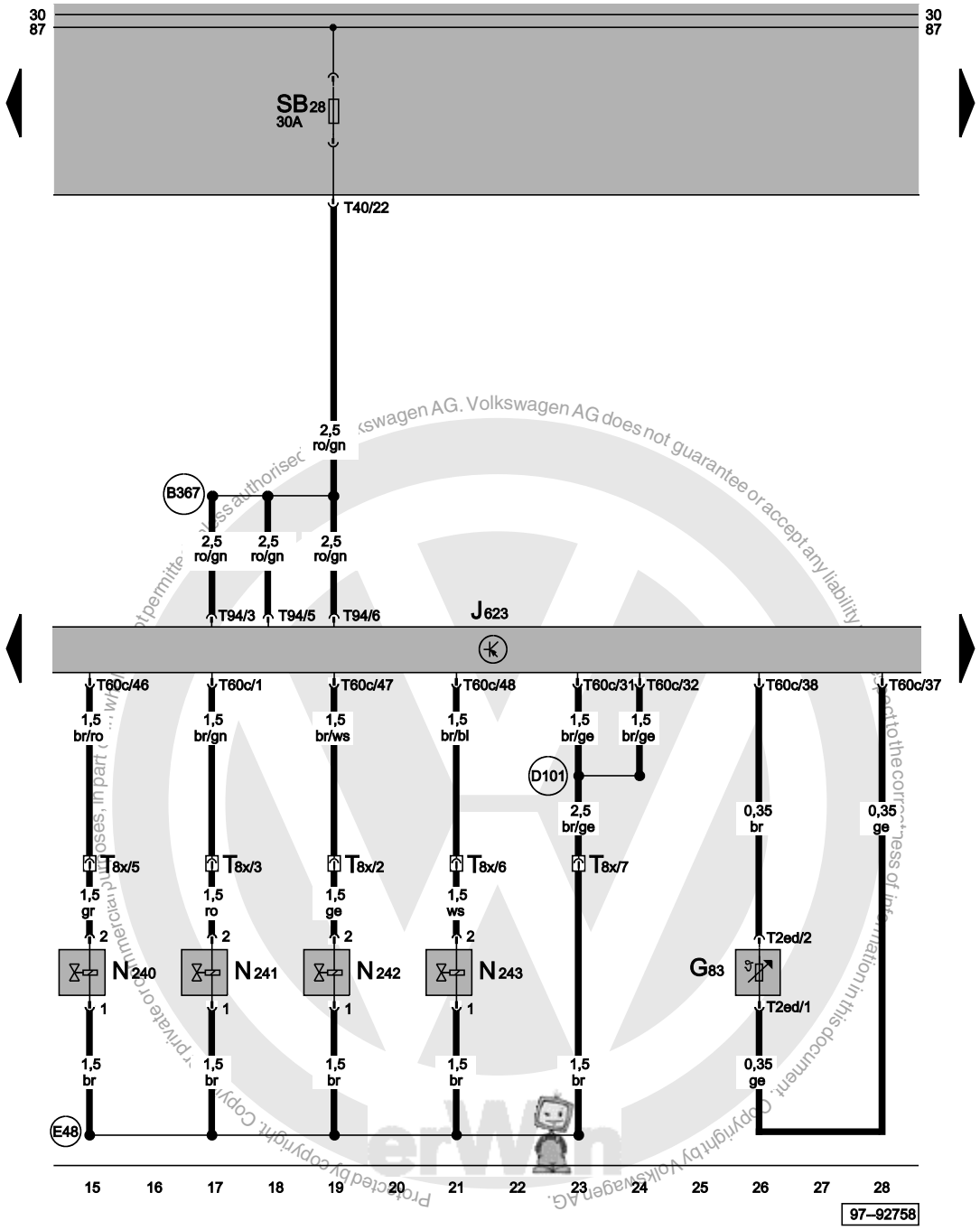


Terminals 30 + 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
SA1	Fuse 1 on fuse holder A
SB23	Fuse 23 on fuse holder B
T1v	Single connector
T2	2-pin connector
T2cq	2-pin connector
T4a	4-pin connector, near starter
T6af	6-pin connector, on electronis box
T8t	8-pin connector
T11	11-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T94	94-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
502	Screw connection 1 (30a), on relay plate
507	Screw connection (30), on fuse holder on battery
639	Earth point, left A-pillar
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38 in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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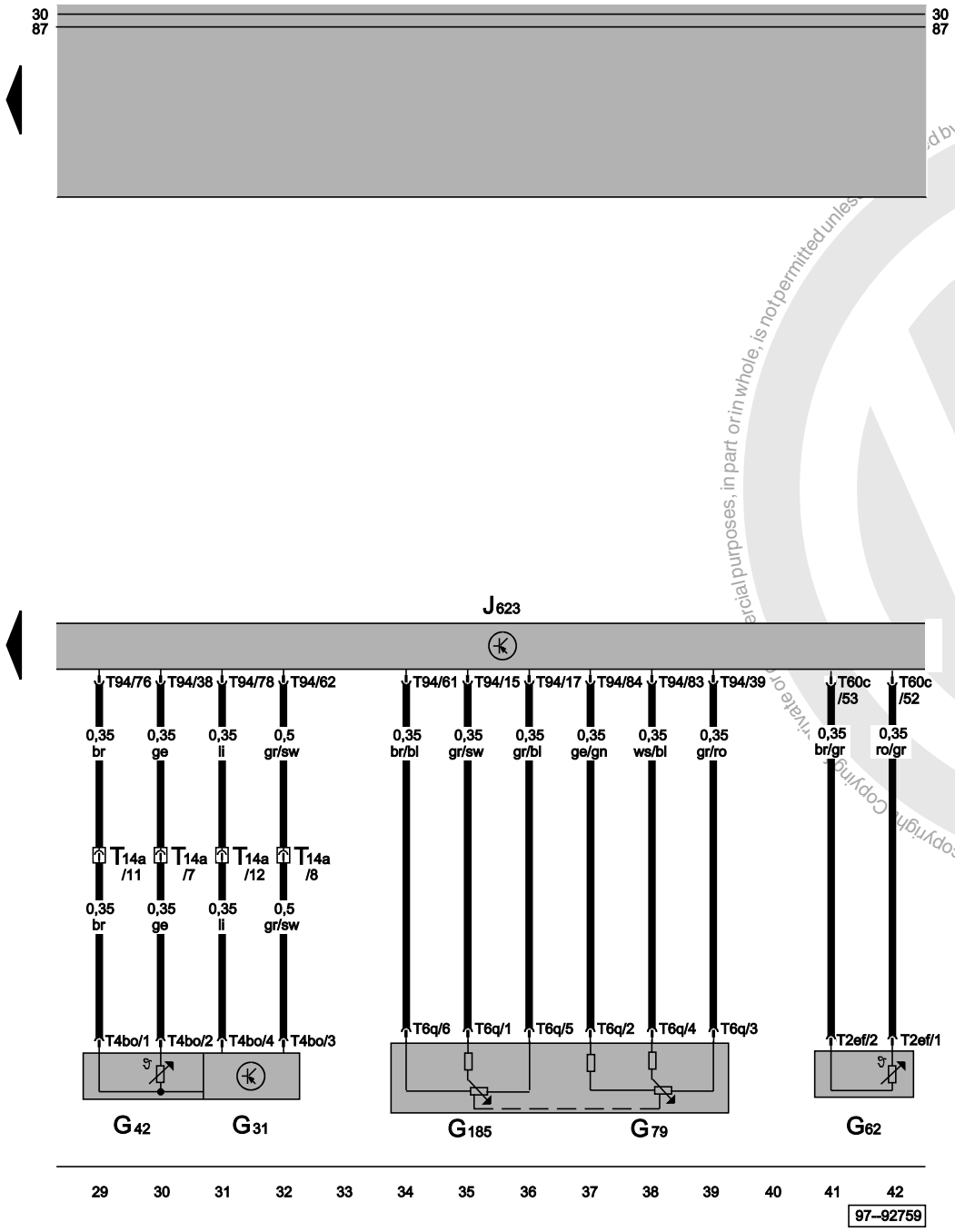


Engine control unit, radiator outlet coolant temperature sender, unit injector valves, No. 1 cyl. to No. 4

G83	Radiator outlet coolant temperature sender
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
SB28	Fuse 28 on fuse holder B
T2ed	2-pin connector
T8x	8-pin connector, near injectors
T40	40-pin connector, under electronics box, in engine compartment
T60c	60-pin connector
T94	94-pin connector
B367	Positive connection 18 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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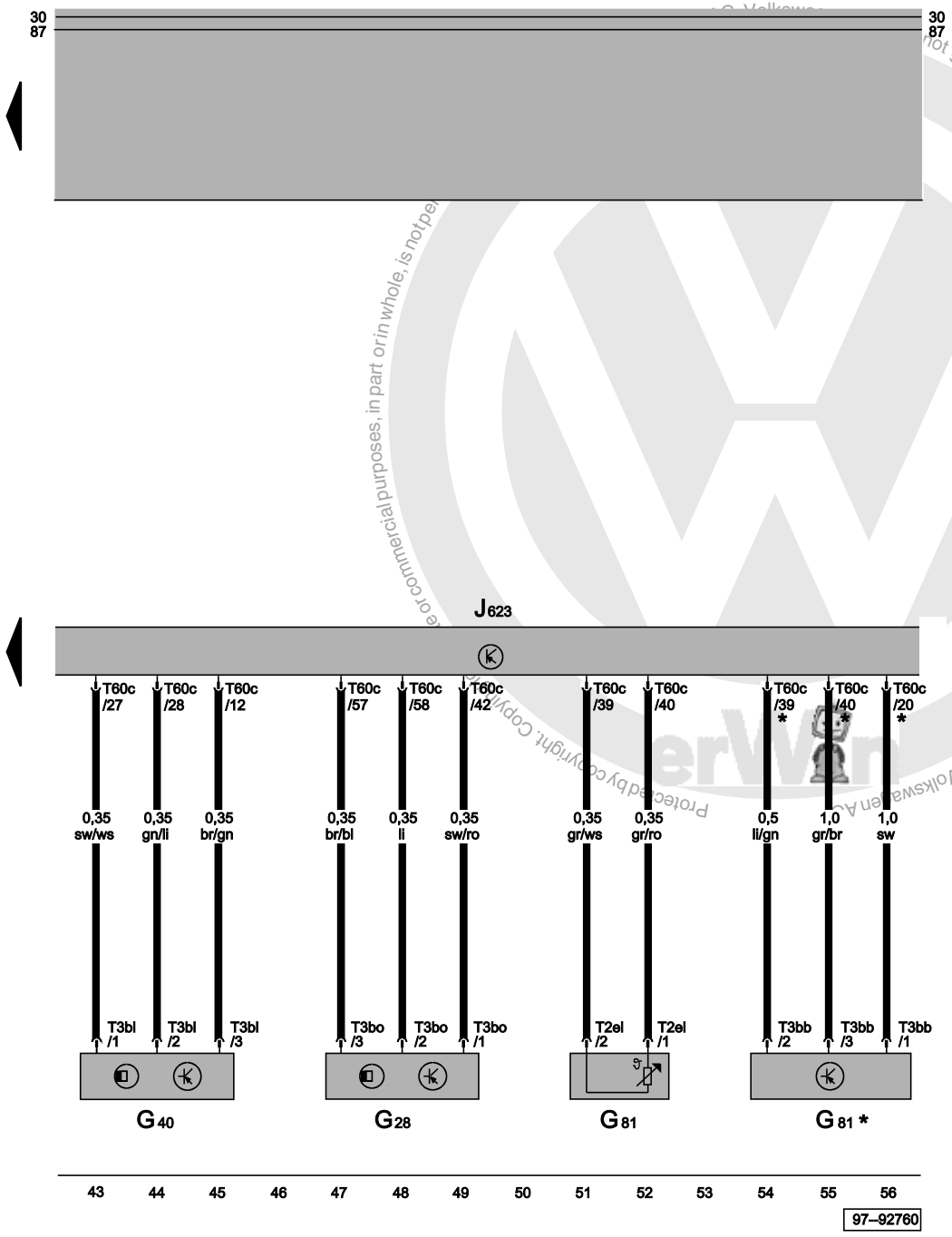


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender 2, coolant temperature sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T2ef	2-pin connector
T4bo	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T60c	60-pin connector
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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li	=	purple
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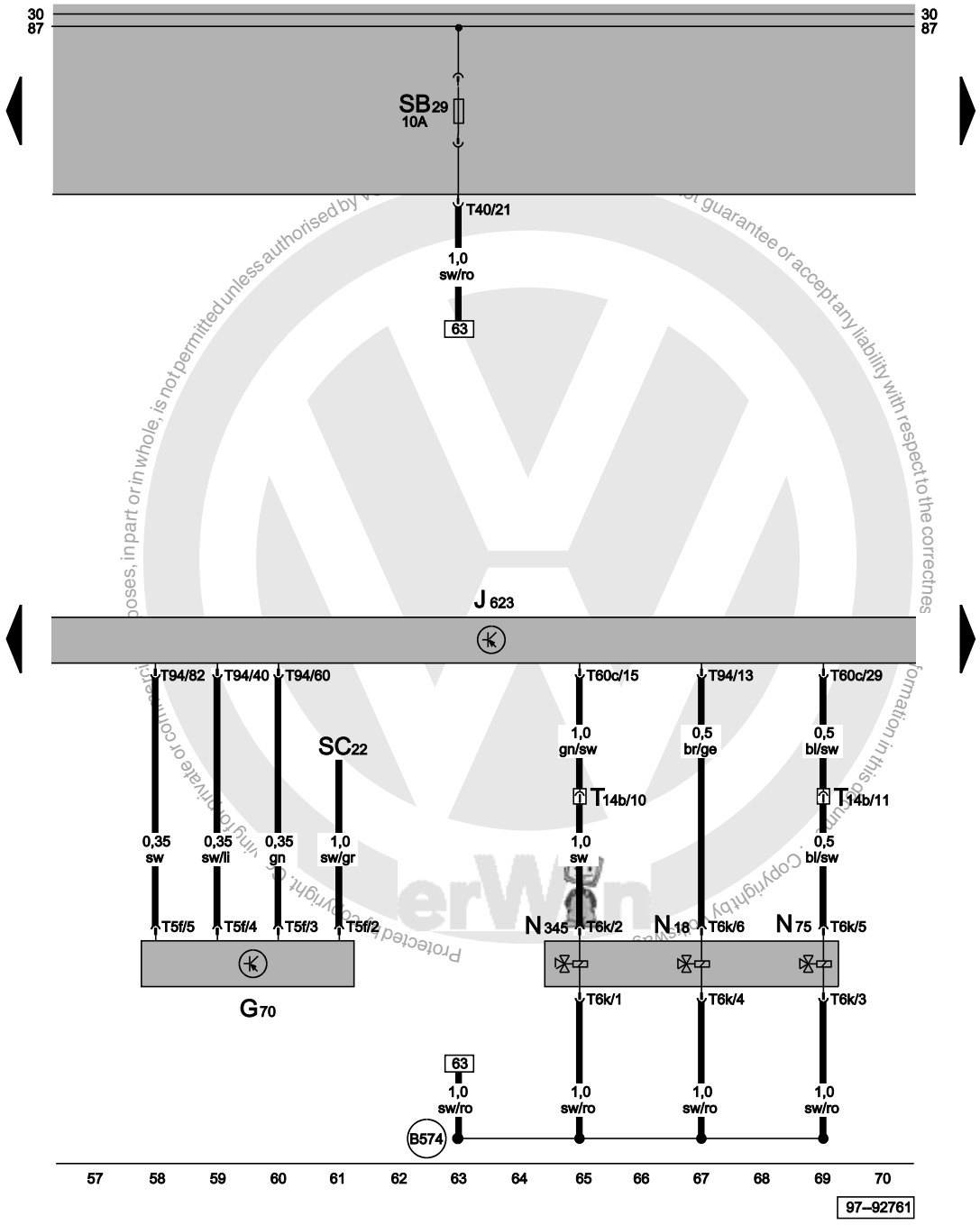


Engine control unit, engine speed sender, hall sender, fuel temperature sender

G28	Engine speed sender
G40	Hall sender
G81	Fuel temperature sender
J623	Engine control unit
T2el	2-pin connector
T3bb	3-pin connector
T3bl	3-pin connector
T3bo	3-pin connector
T60c	60-pin connector
*	Not with all levels of equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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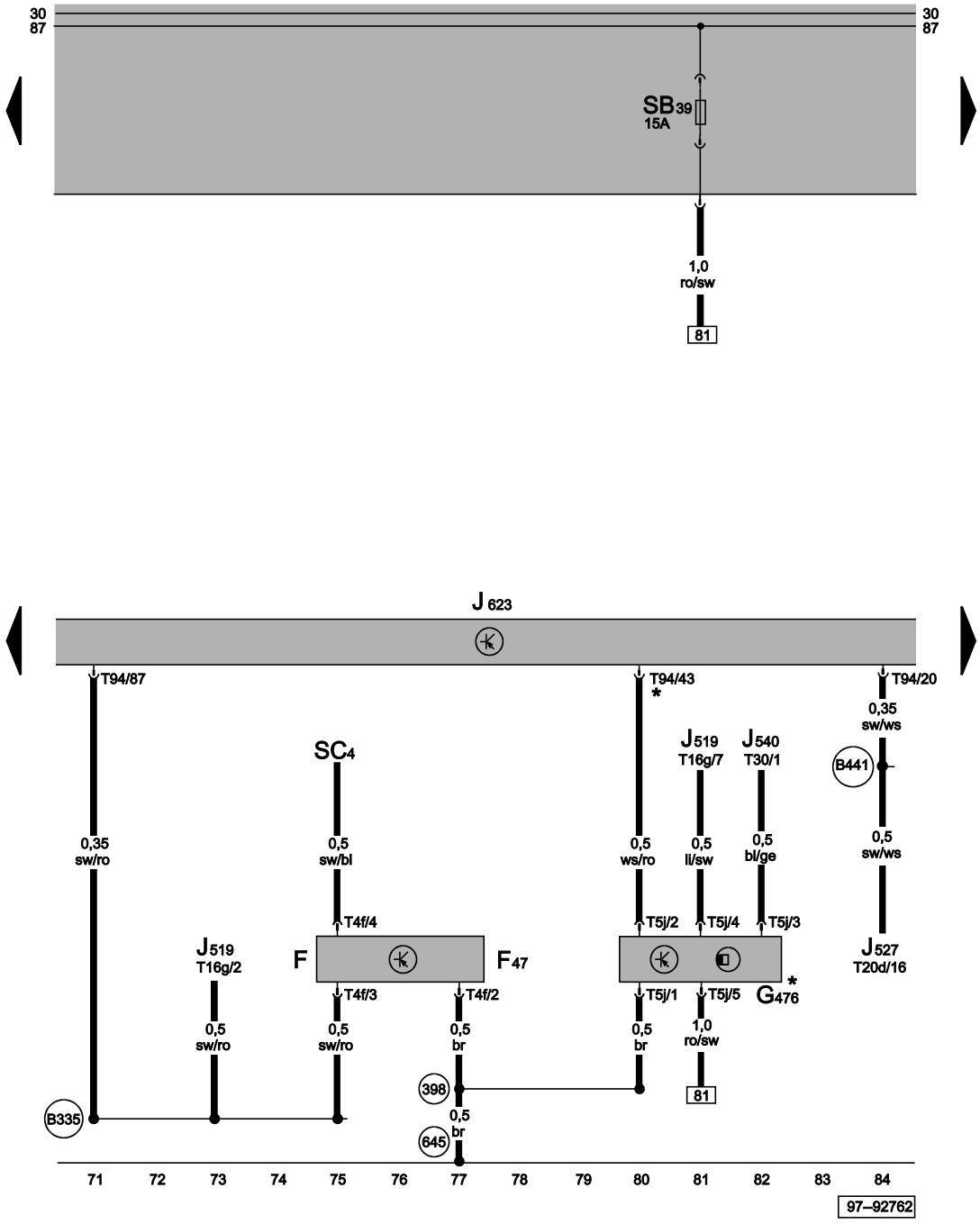


Engine control unit, exhaust gas recirculation valve, air mass meter, charge pressure control solenoid valve

G70	Air mass meter
J623	Engine control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler change-over valve
SB29	Fuse 29 on fuse holder B
SC22	Fuse 22 on fuse holder C
T5f	5-pin connector
T6k	6-pin connector
T14b	14-pin connector, coupling point 2 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T60c	60-pin connector
T94	94-pin connector
B574	Positive connection 20 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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gr	=	grey
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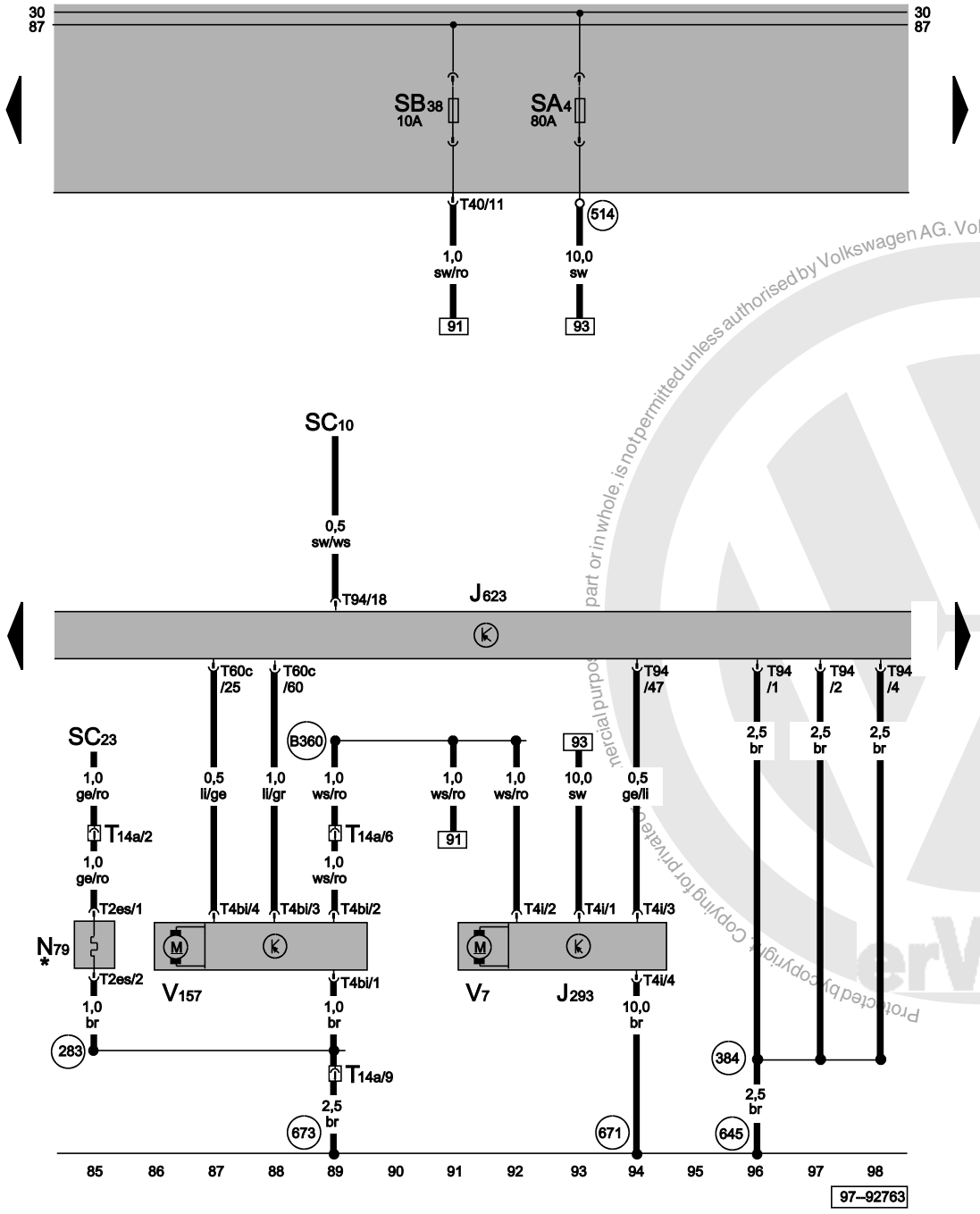


Engine control unit, clutch position sender, brake light switch, brake pedal switch

F	Brake light switch, in engine compartment
F47	Brake pedal switch, in engine compartment
G476	Clutch position sender, in engine compartment *
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Electric park and handbrake control unit
J623	Engine control unit
SC4	Fuse 4 on fuse holder C
T4f	4-pin connector
T5j	5-pin connector *
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with manual gearbox

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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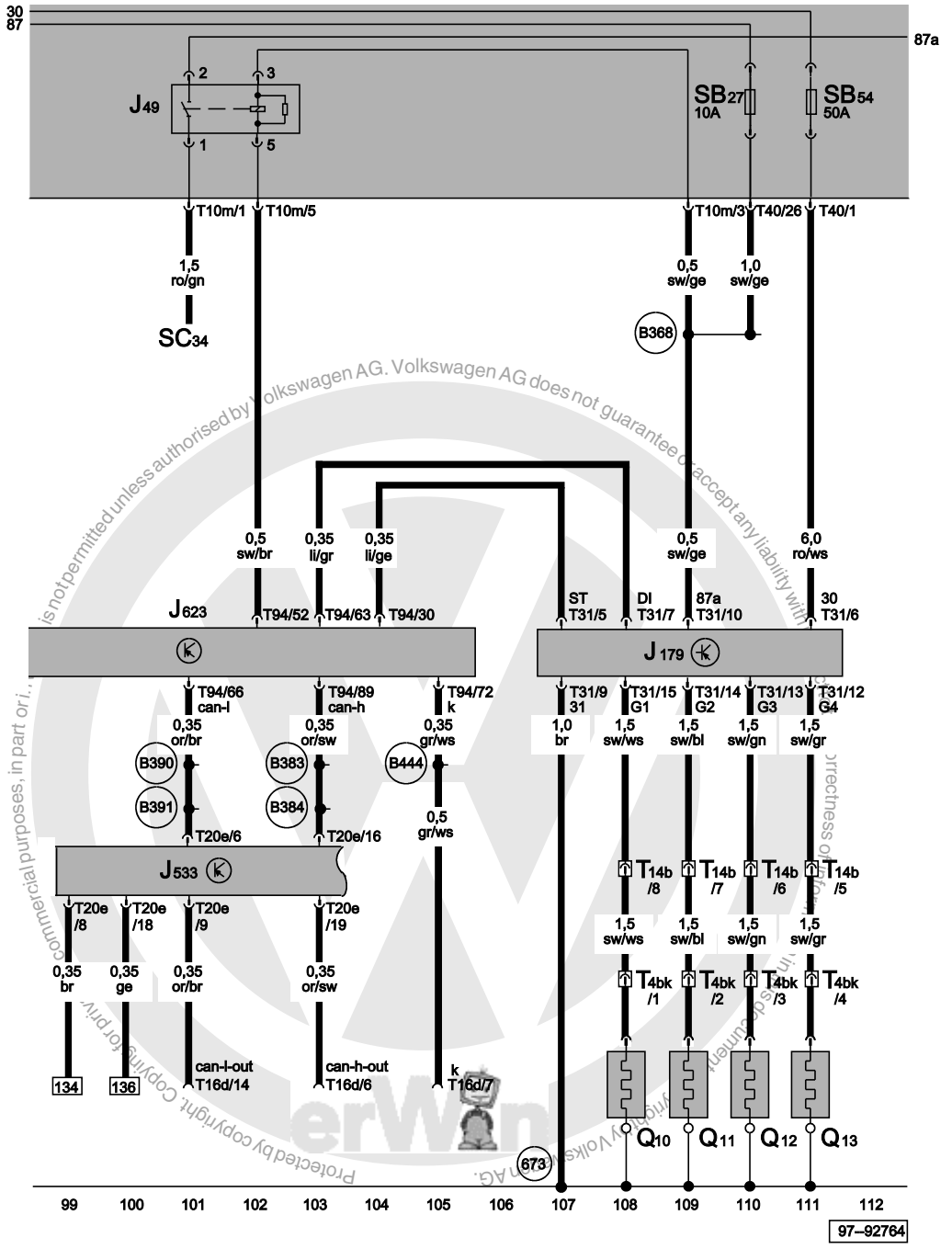


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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or = orange
rs = pink

Engine control unit, heater element for crankcase breather, radiator fan, intake manifold flap motor

J293	Radiator fan control unit
J623	Engine control unit
N79	Heater element for crankcase breather *
SA4	Fuse 4 on fuse holder A
SB38	Fuse 38 on fuse holder B
SC10	Fuse 10 on fuse holder C
SC23	Fuse 23 on fuse holder C
T2es	2-pin connector
T4bi	4-pin connector
T4i	4-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T60c	60-pin connector
T94	94-pin connector
V7	Radiator fan
V157	Intake manifold flap motor
283	Earth connection 2, in engine prewiring harness
384	Earth connection 19, in main wiring harness
514	Screw connection 4 (30a), on relay plate
645	Earth point 1, on bulkhead
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B360	Positive connection 11 (87a), in main wiring harness
*	Only models for cold climate countries

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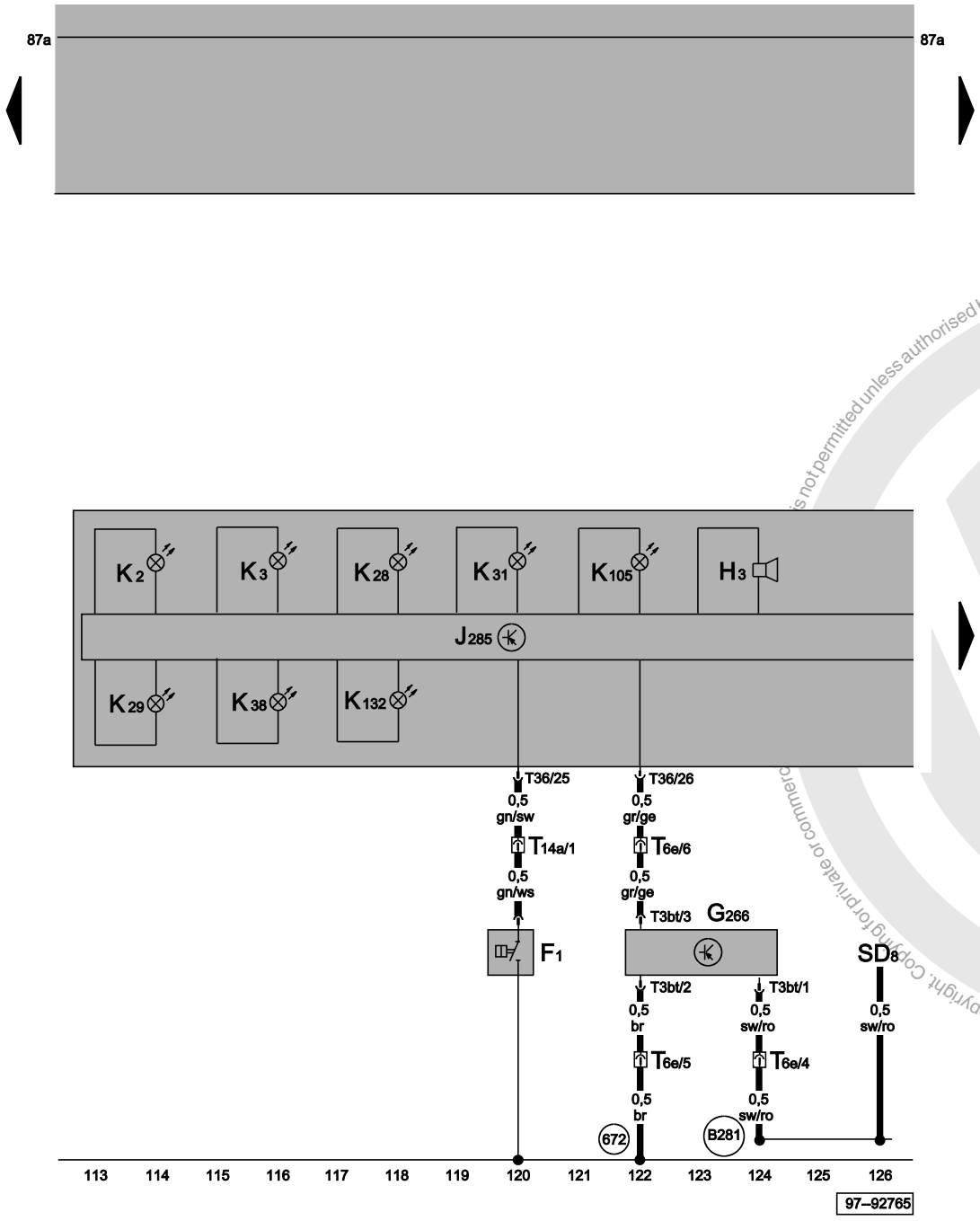


ws = white
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br = brown
gn = green
bl = blue
gr = grey
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ge = yellow
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rs = pink

Engine control unit, automatic glow period control unit, glow plugs 1 to 4, data bus diagnostic interface, self-diagnosis connection

J49	Electric fuel pump 2 relay
J179	Automatic glow period control unit
J533	Data bus diagnostic interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
SB27	Fuse 27 on fuse holder B
SB54	Fuse 54 on fuse holder B
SC34	Fuse 34 on fuse holder C
T4bk	4-pin connector, coupling point glow plugs
T10m	10-pin connector, on electronis box
T14b	14-pin connector, coupling point 2 in left engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T31	31-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T94	94-pin connector
673	Earth point 3, on front of left longitudinal member
B368	Positive connection 19 (87a), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

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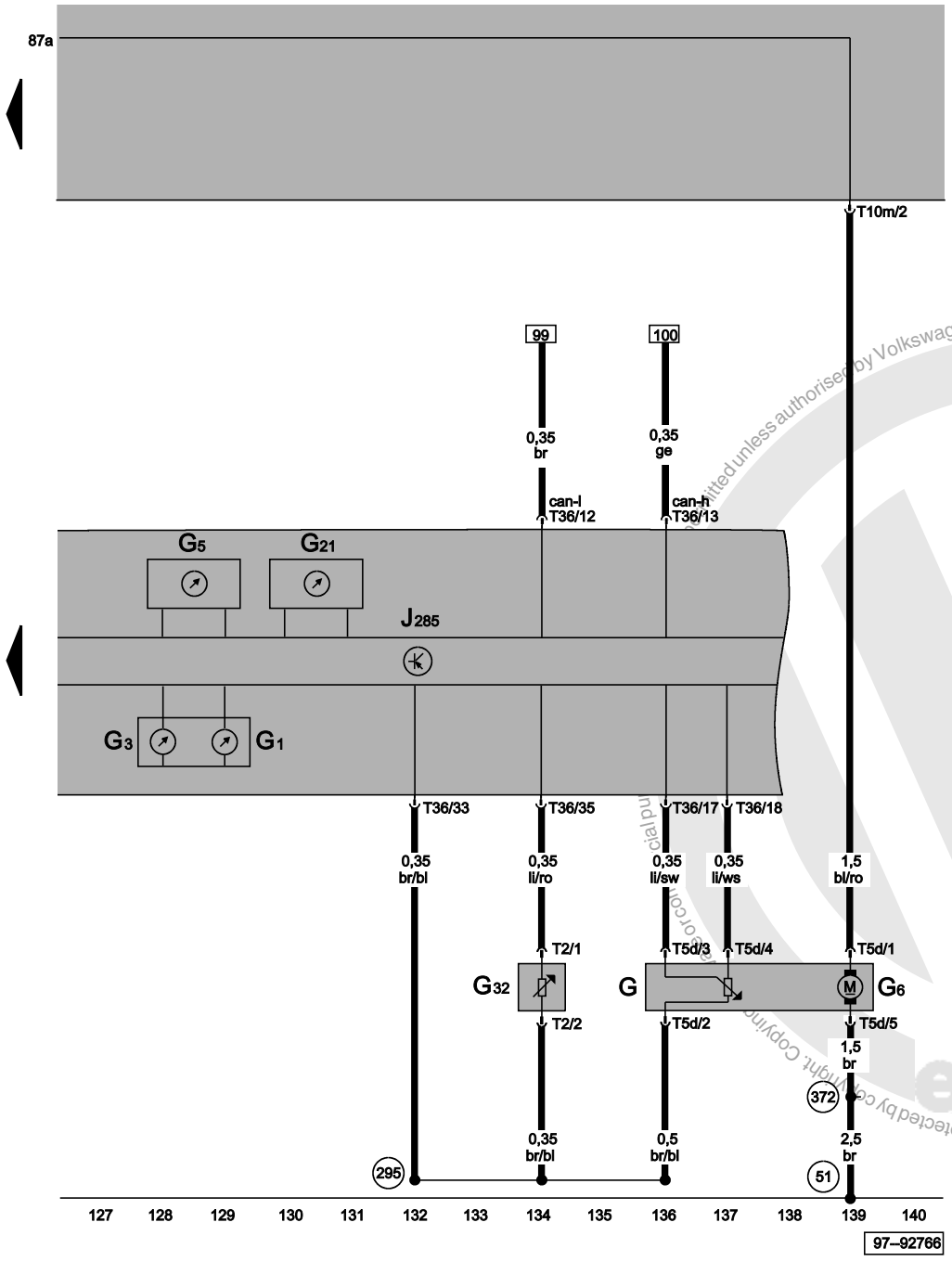


Dash panel insert, warning lamps, oil pressure switch, buzzer or gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer or gong
J285	Control unit with display in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
SD8	Fuse 8 on fuse holder D
T3bt	3-pin connector
T6e	6-pin connector, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, coupling point 1 in left engine compartment
T36	36-pin connector
(672)	Earth point 2, on front of left longitudinal member
(B281)	Positive connection 5 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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gr	=	grey
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Dash panel insert, rev. counter, speedometer, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit with display in dash panel insert
T2	2-pin connector
T5d	5-pin connector
T10m	10-pin connector, under electronis box
T36	36-pin connector
(51)	Earth point, on right in luggage compartment
(295)	Earth connection 10, in interior wiring harness
(372)	Earth connection 7, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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2.0 l/103 kW - Turbodiesel, engine code BMP

from November 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

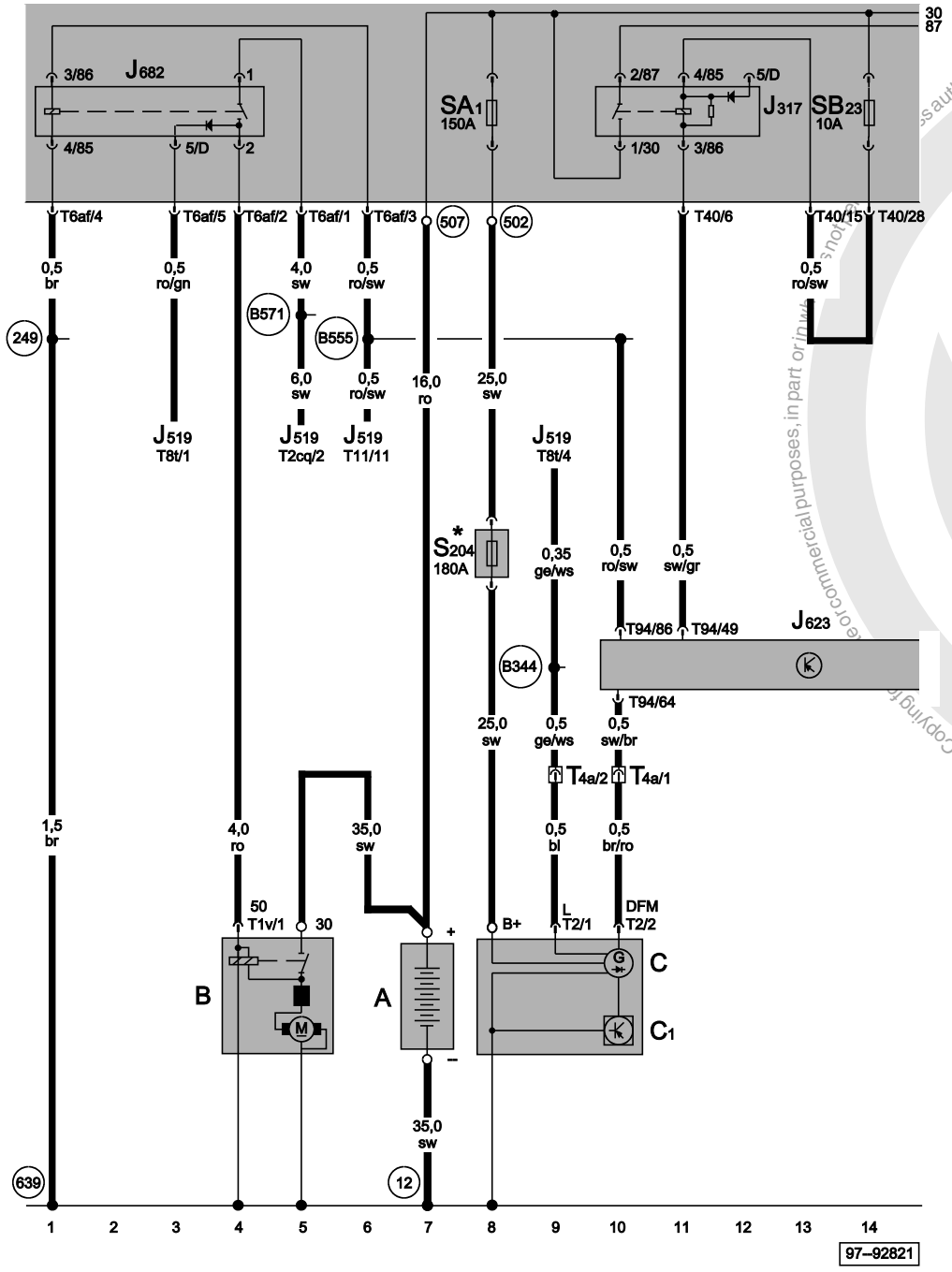
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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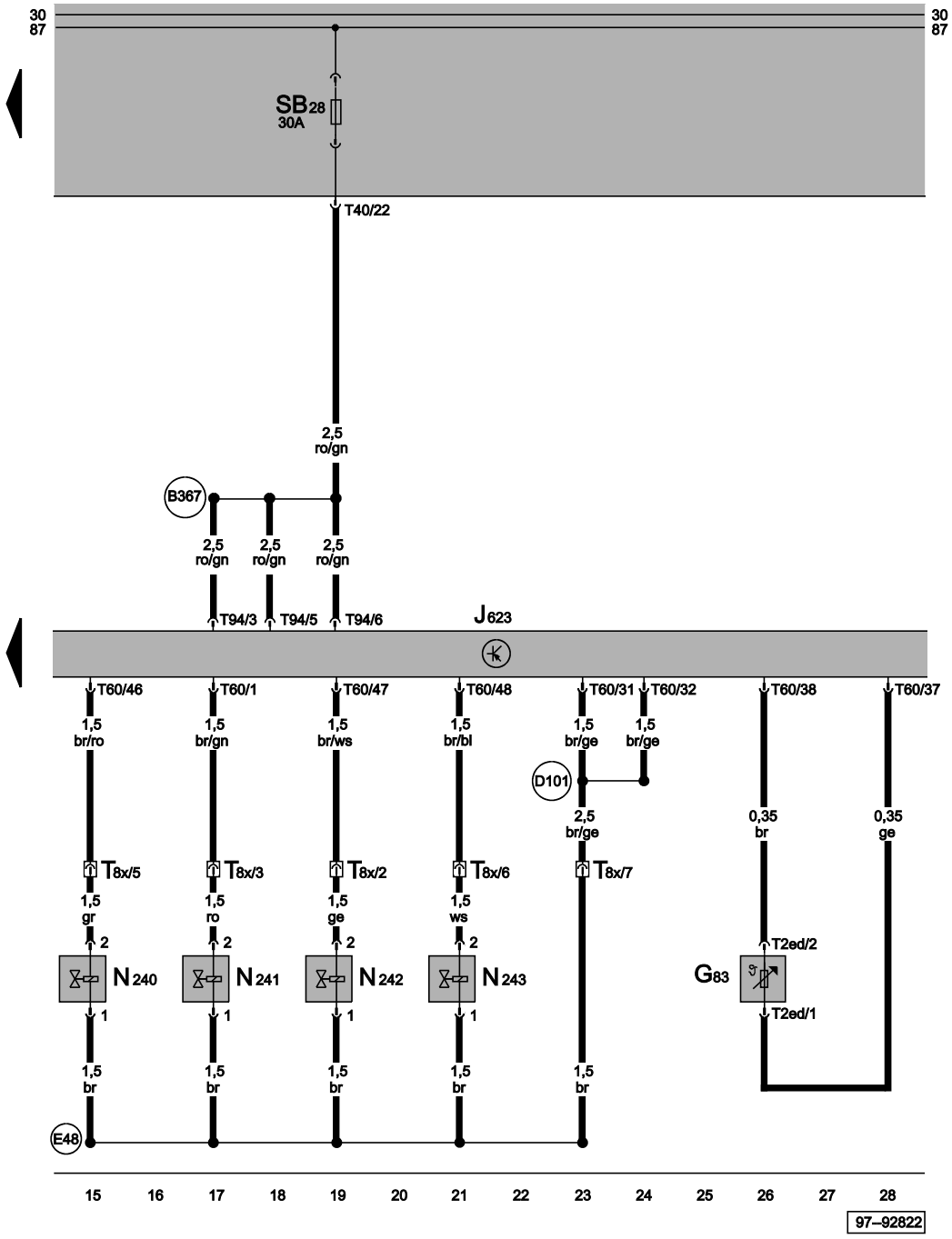


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Terminals 30 + 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
S204	Fuse 1 (30) *
SA1	Fuse 1 on fuse holder A
SB23	Fuse 23 on fuse holder B
T1v	Single connector
T2	2-pin connector
T2cq	2-pin connector, black
T4a	4-pin connector, near starter
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
T40	40-pin connector, under electronics box, in engine compartment
T94	94-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
502	Screw connection 1 (30a), on relay plate
507	Screw connection (30), on fuse holder on battery
639	Earth point, left A-pillar
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	only models with 180 A alternator

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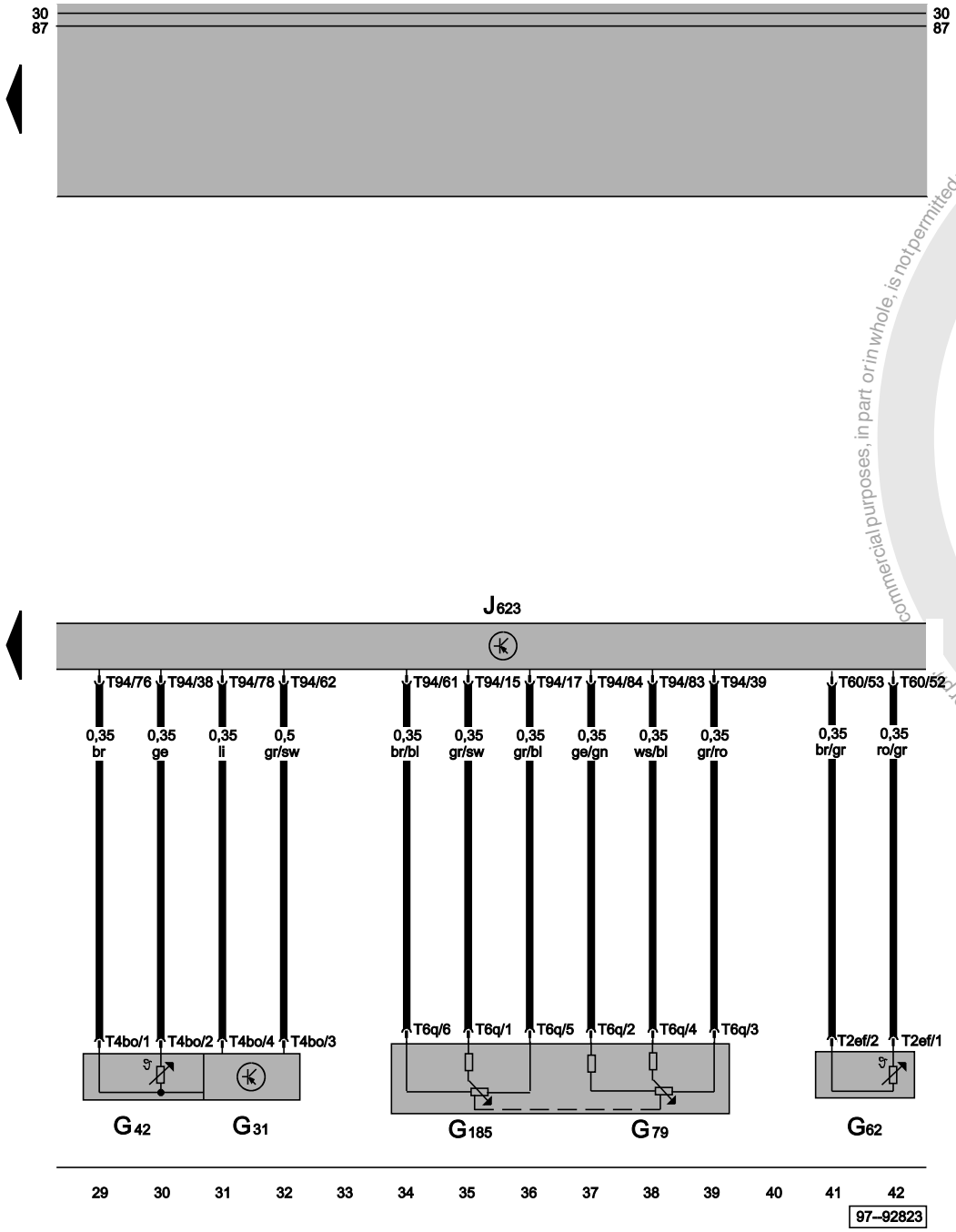


Engine control unit, radiator outlet coolant temperature sender, unit injector valves, No. 1 cyl. to No. 4

G83	Radiator outlet coolant temperature sender
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
SB28	Fuse 28 on fuse holder B
T2ed	2-pin connector
T8x	8-pin connector, near injectors
T40	40-pin connector, under electronics box, in engine compartment
T60	60-pin connector
T94	94-pin connector
B367	Positive connection 18 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

ws	=	white
sw	=	black
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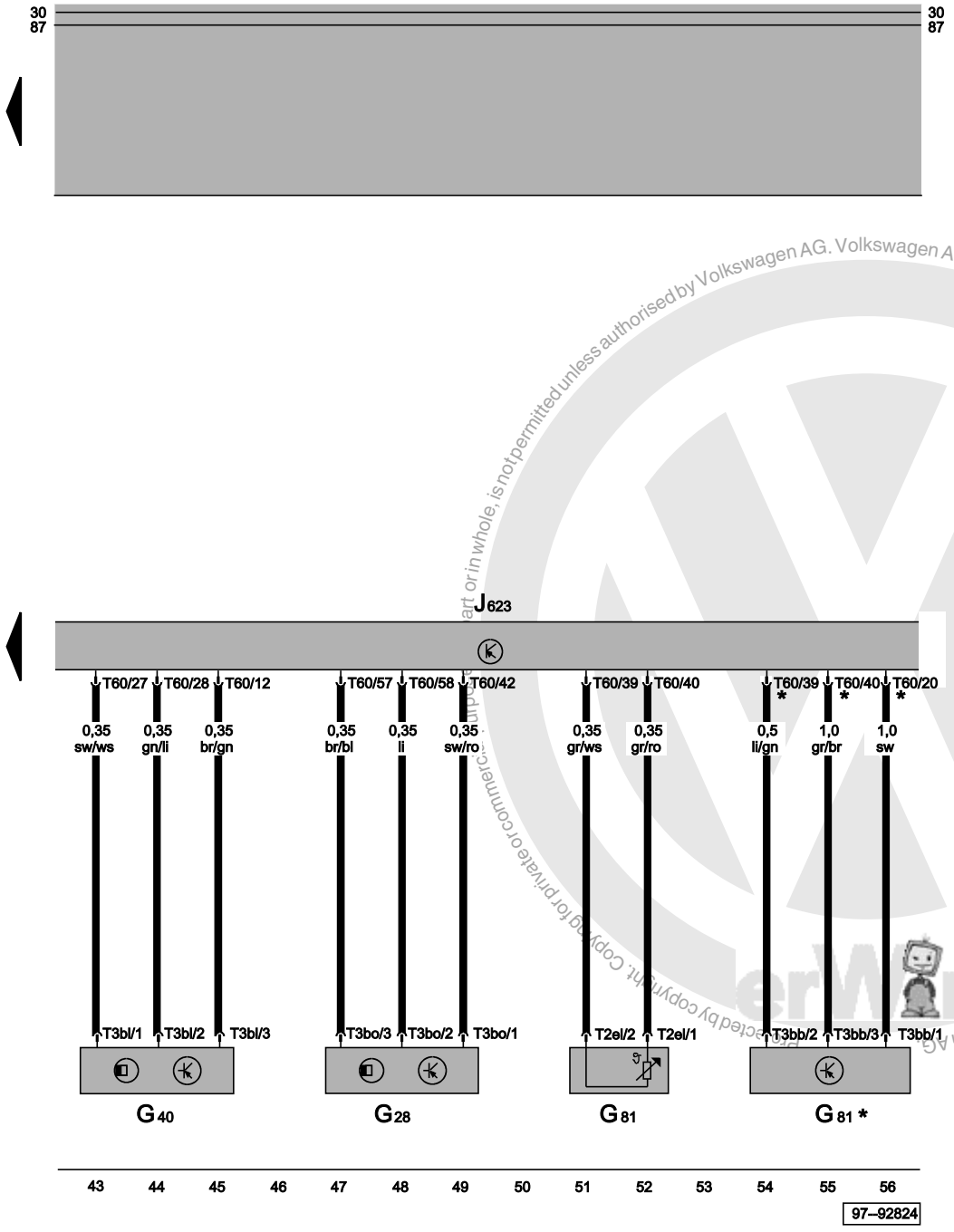


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender 2, coolant temperature sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T2ef	2-pin connector
T4bo	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T60	60-pin connector
T94	94-pin connector

ws	=	white
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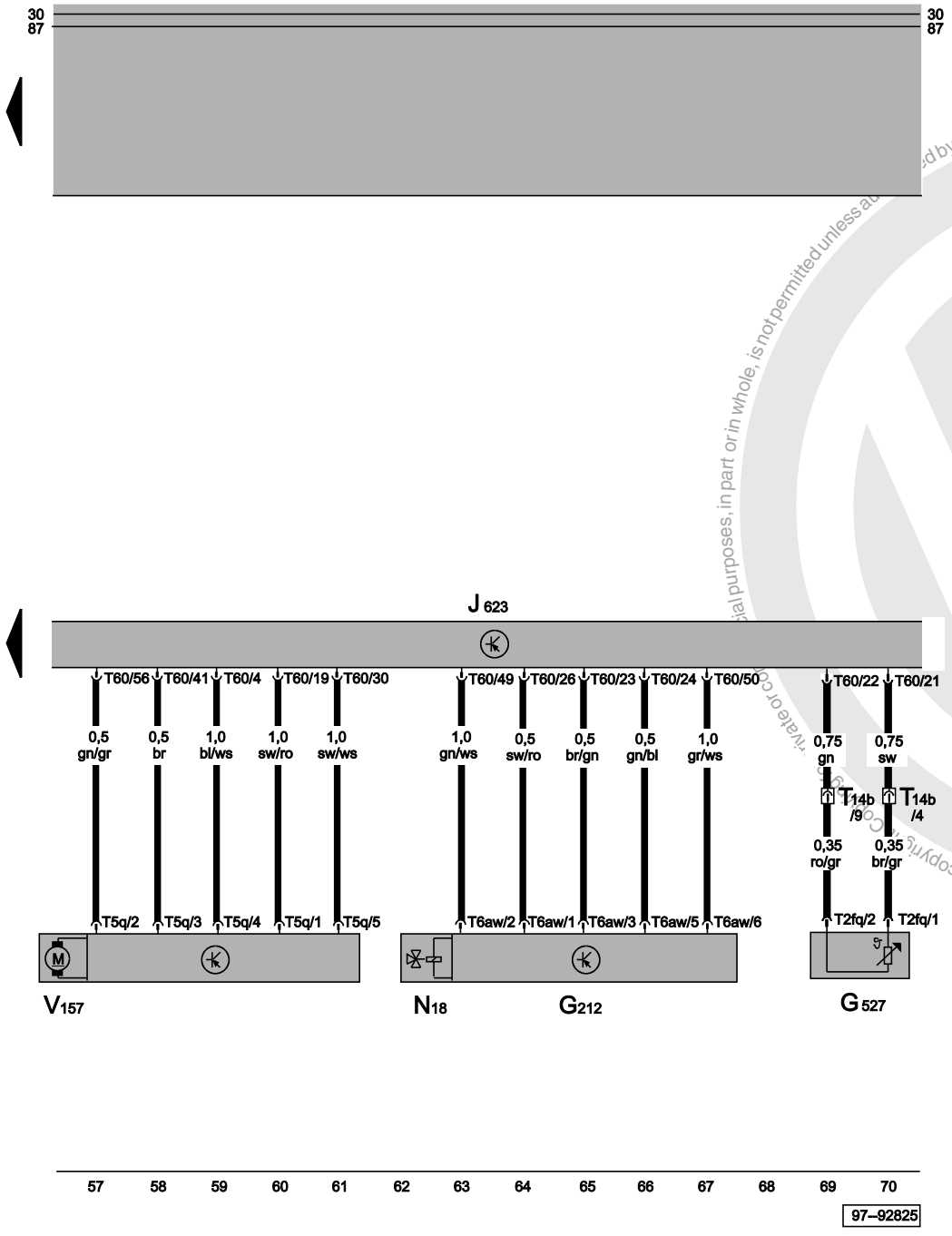


Engine control unit, engine speed sender, Hall sender, fuel temperature sender

G28	Engine speed sender
G40	Hall sender
G81	Fuel temperature sender
J623	Engine control unit
T2el	2-pin connector
T3bb	3-pin connector
T3bl	3-pin connector
T3bo	3-pin connector
T60	60-pin connector
*	not with all levels of equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Engine control unit, intake manifold flap motor, exhaust gas recirculation valve, exhaust gas recirculation potentiometer

G212	Exhaust gas recirculation potentiometer
G527	Temperature sender after particulate filter
J623	Engine control unit
N18	Exhaust gas recirculation valve
T2fq	2-pin connector
T5q	5-pin connector
T6aw	6-pin connector
T14b	14-pin connector, coupling point 2 in left engine compartment
T60	60-pin connector
V157	Intake manifold flap motor

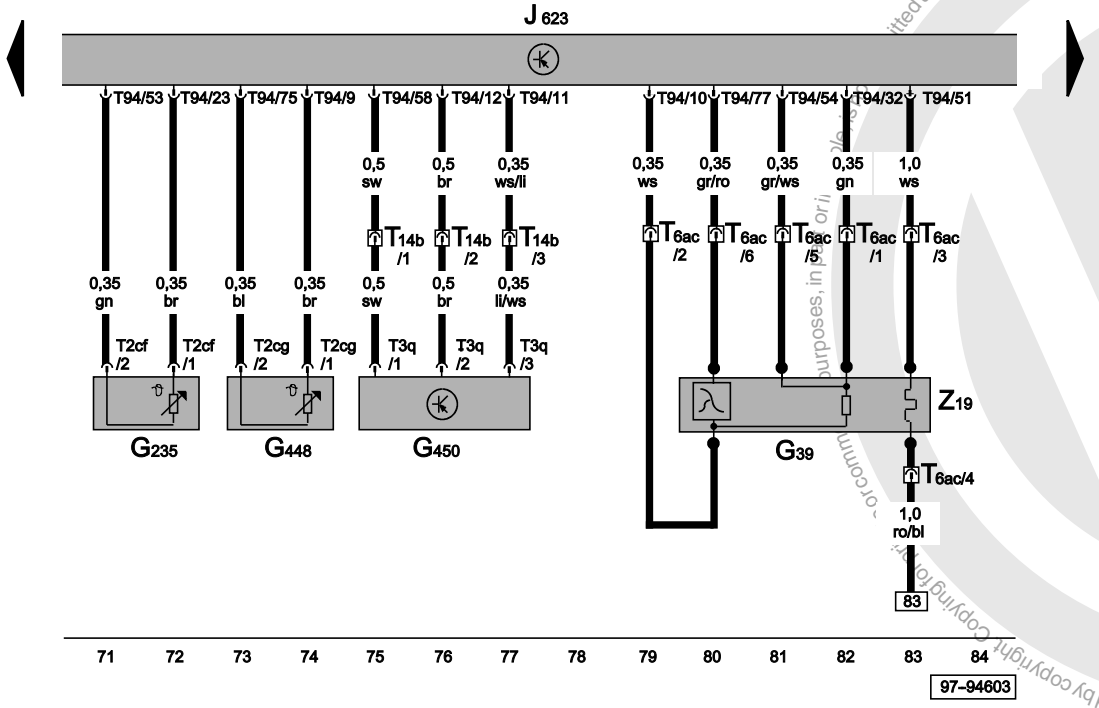
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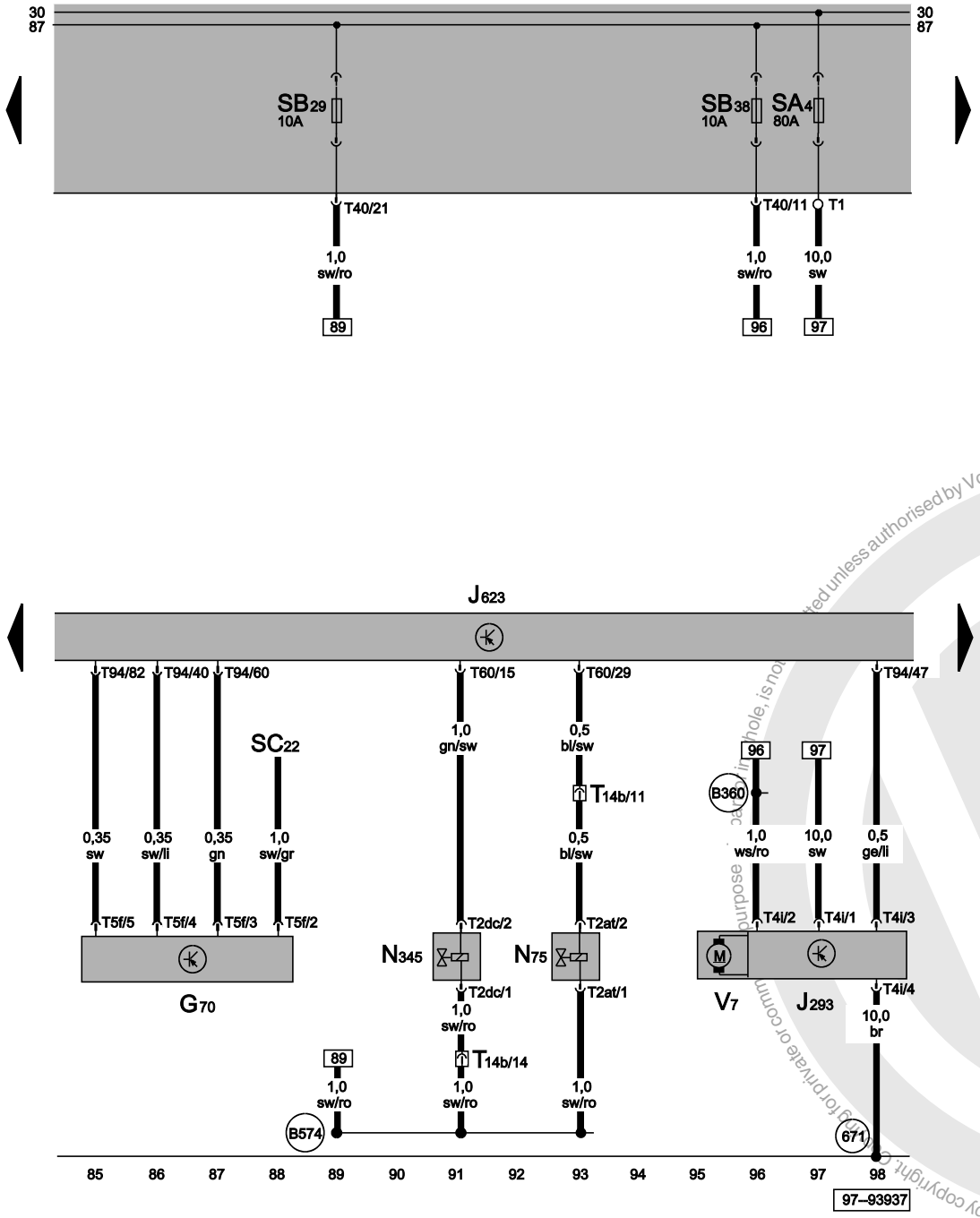
Engine control unit, lambda probe, exhaust gas pressure sensor 1, temperature sender before particulate filter and turbocharger

G39	Lambda probe
G450	Exhaust gas pressure sensor 1
G235	Exhaust gas temperature sender 1
G448	Bank 1 exhaust gas temperature sender 2
J623	Engine control unit
SB40	Fuse 40 on fuse holder B
T2cf	2-pin connector
T2cg	2-pin connector
T3q	3-pin connector
T6ac	6-pin connector, connector point lambda probe
T14b	14-pin connector, coupling point 2 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T94	94-pin connector
Z19	Lambda probe heater



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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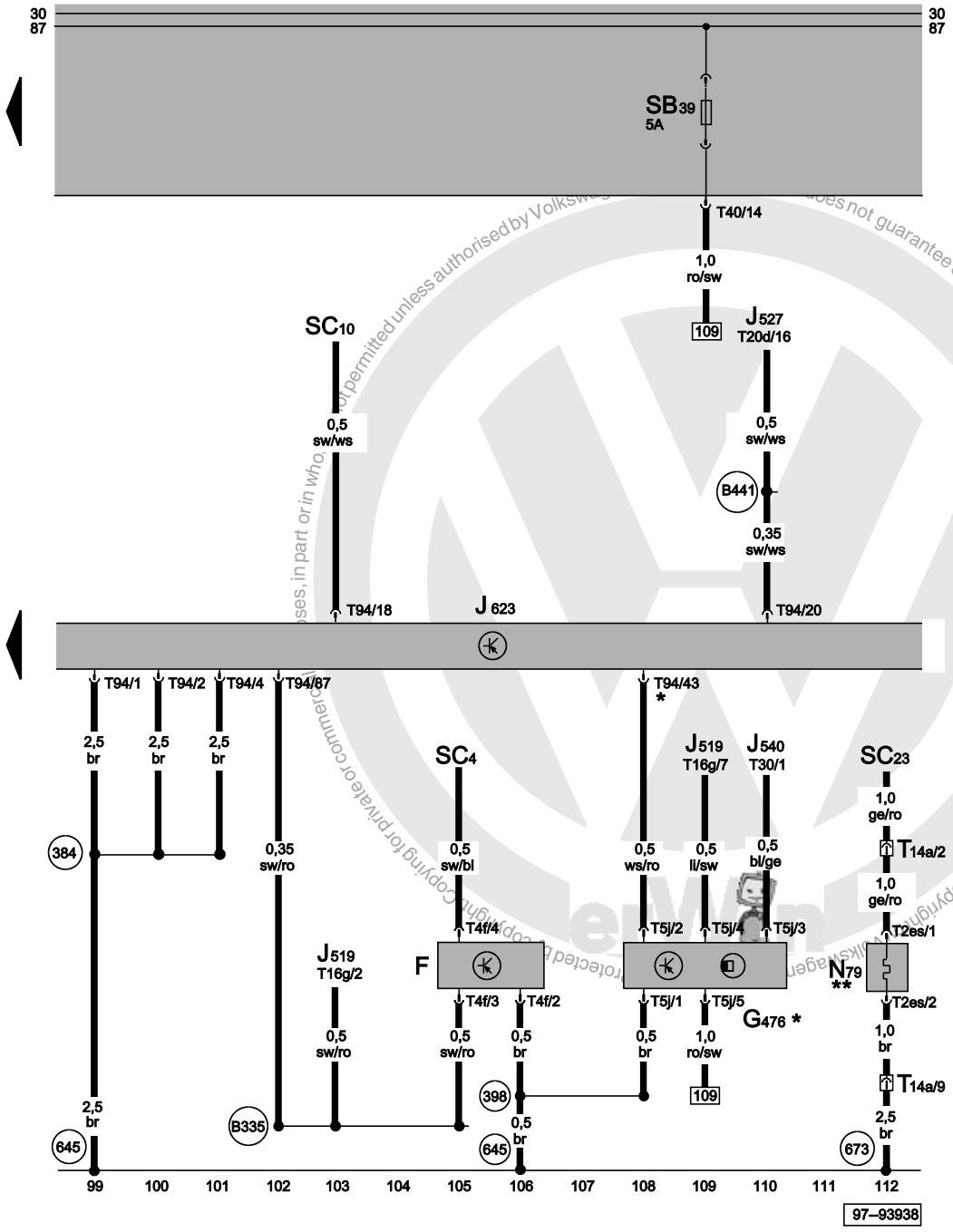


Engine control unit, radiator fan control unit, air mass meter, charge pressure control solenoid valve

G70	Air mass meter
J293	Radiator fan control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler change-over valve
SA4	Fuse 4 on fuse holder A
SB29	Fuse 29 on fuse holder B
SB38	Fuse 38 on fuse holder B
SC22	Fuse 22 on fuse holder C
T1	Screw connection, on electronics box
T2at	2-pin connector
T2dc	2-pin connector
T4i	4-pin connector
T5f	5-pin connector
T14b	14-pin connector, coupling point 2 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
671	Earth point 1, on front of left longitudinal member
B360	Positive connection 11 (87a), in main wiring harness
B574	Positive connection 20 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
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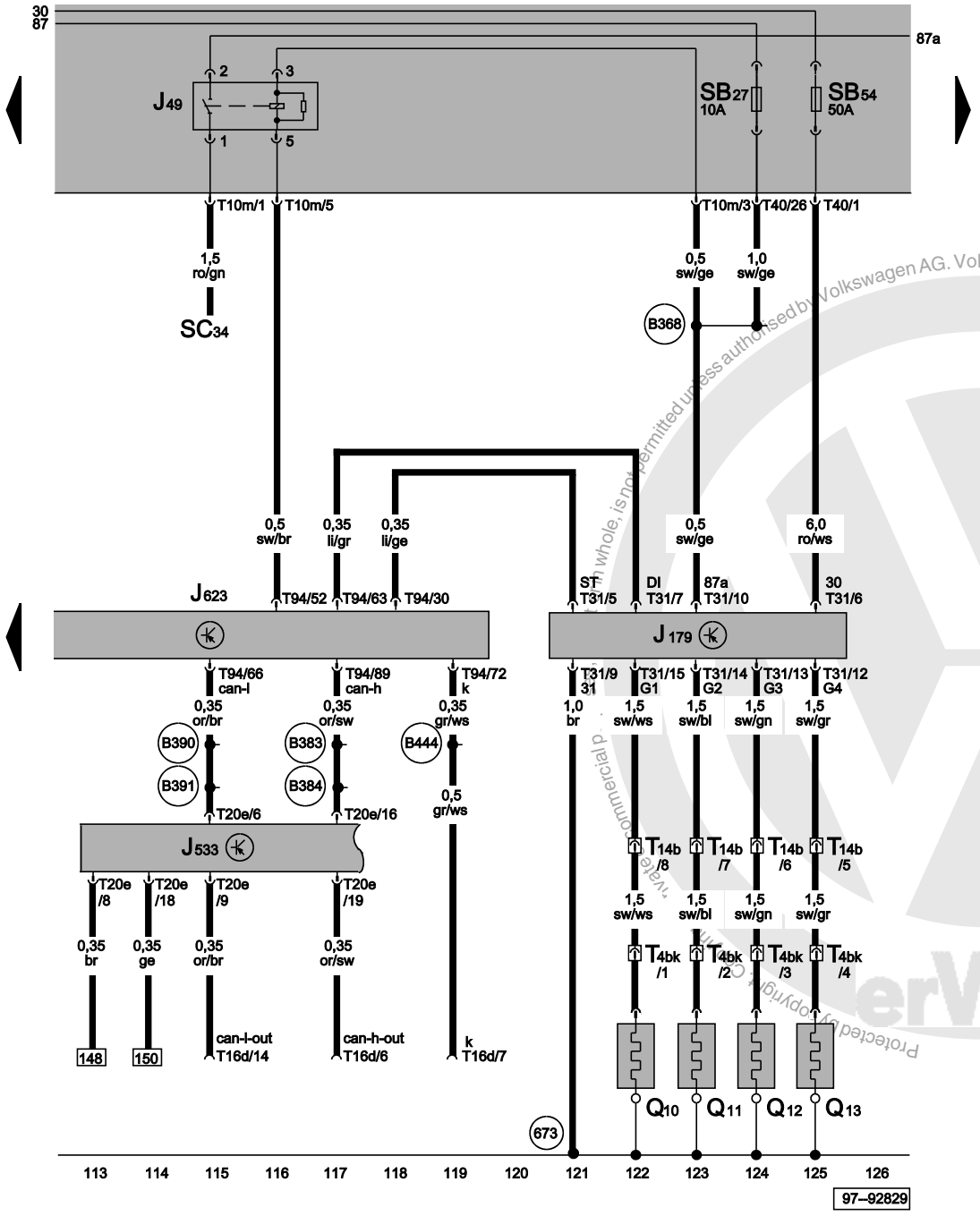


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, clutch position sender, brake light switch, heater element for crankcase breather

F	Brake light switch
G476	Clutch position sender *
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Electric park and handbrake control unit
J623	Engine control unit
N79	Heater element for crankcase breather**
SB39	Fuse 39 on fuse holder B
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC23	Fuse 23 on fuse holder C
T2es	2-pin connector
T4f	4-pin connector
T5j	5-pin connector *
T14a	14-pin connector, coupling point 1 in left engine compartment
T16g	16-pin connector, black
T20d	20-pin connector
T30	30-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T94	94-pin connector
384	Earth connection 19, in main wiring harness
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
673	Earth point 3, on front of left longitudinal member
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	only models with manual gearbox
**	only models for cold climate countries

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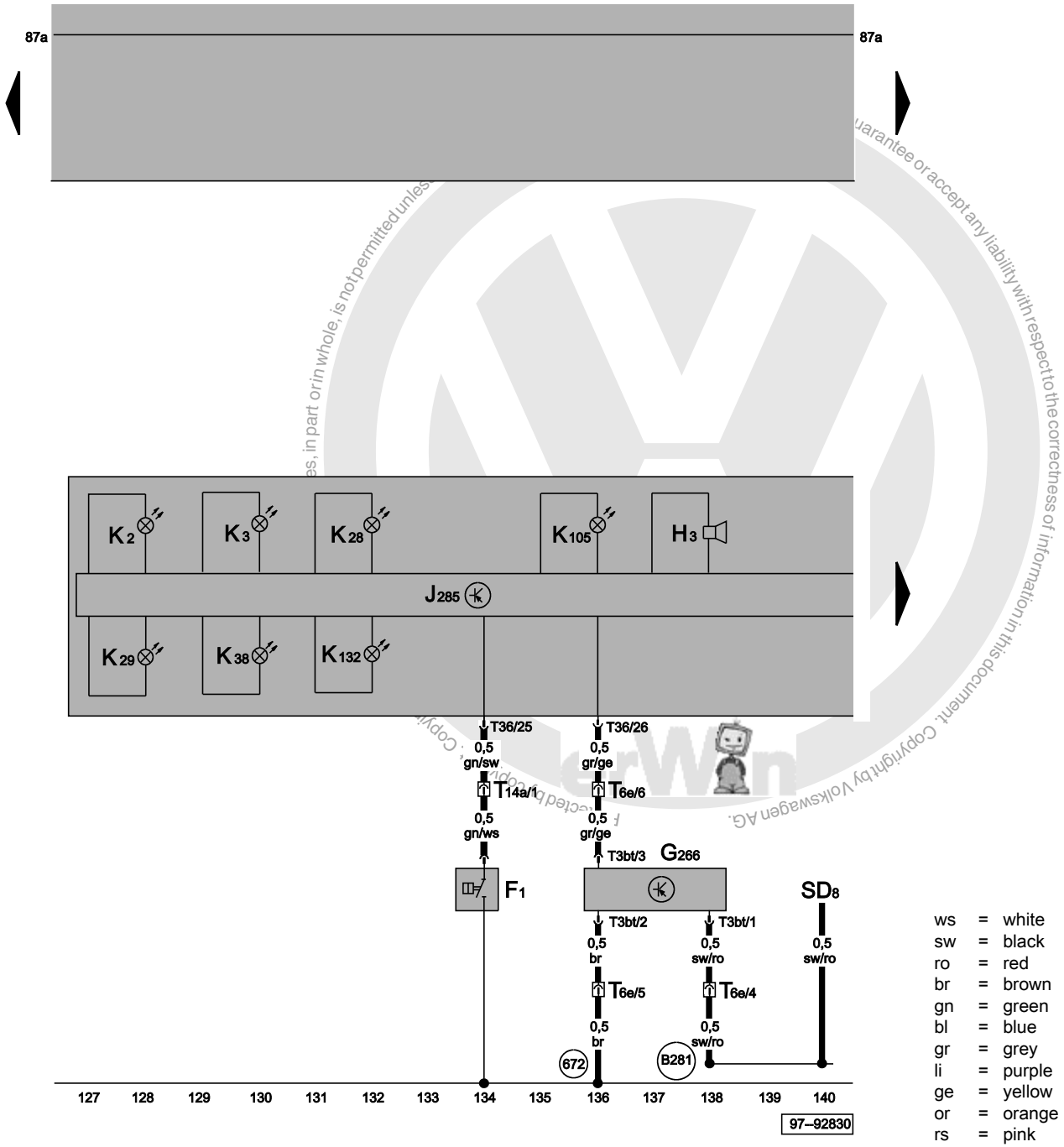


Engine control unit, automatic glow period control unit, glow plugs 1 to 4, data bus diagnostic interface, self-diagnosis connection

J49	Electric fuel pump 2 relay
J179	Automatic glow period control unit
J533	Data bus diagnostic interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
SB27	Fuse 27 on fuse holder B
SB54	Fuse 54 on fuse holder B
SC34	Fuse 34 on fuse holder C
T4bk	4-pin connector, coupling point glow plugs
T10m	10-pin connector, on electronics box
T14b	14-pin connector, coupling point 2 in left engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T31	31-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T94	94-pin connector
673	Earth point 3, on front of left longitudinal member
B368	Positive connection 19 (87a), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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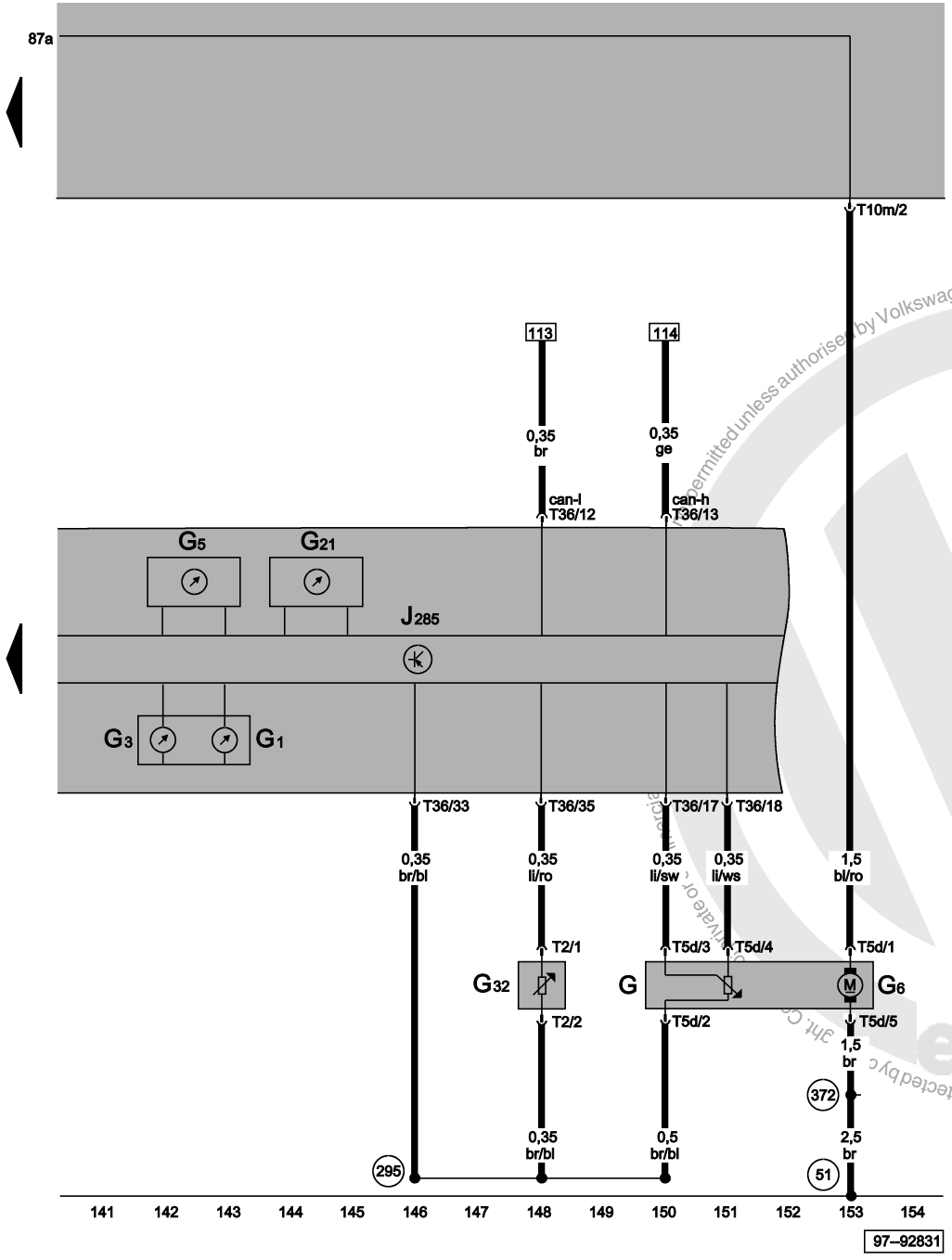


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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rs = pink

Dash panel insert, warning lamps, oil pressure switch, buzzer or gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer or gong
J285	Control unit in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T3bt	3-pin connector
T6e	6-pin connector, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, coupling point 1 in left engine compartment
T36	36-pin connector
(672)	Earth point 2, on front of left longitudinal member
(B281)	Positive connection 5 (15a), in main wiring harness

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Dash panel insert, rev. counter, speedometer, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
T2	2-pin connector
T5d	5-pin connector
T10m	10-pin connector, on electronics box
T36	36-pin connector
(51)	Earth point, on right in luggage compartment
(295)	Earth connection 10, in interior wiring harness
(372)	Earth connection 7, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Radio system: RCD 300 / RCD 500

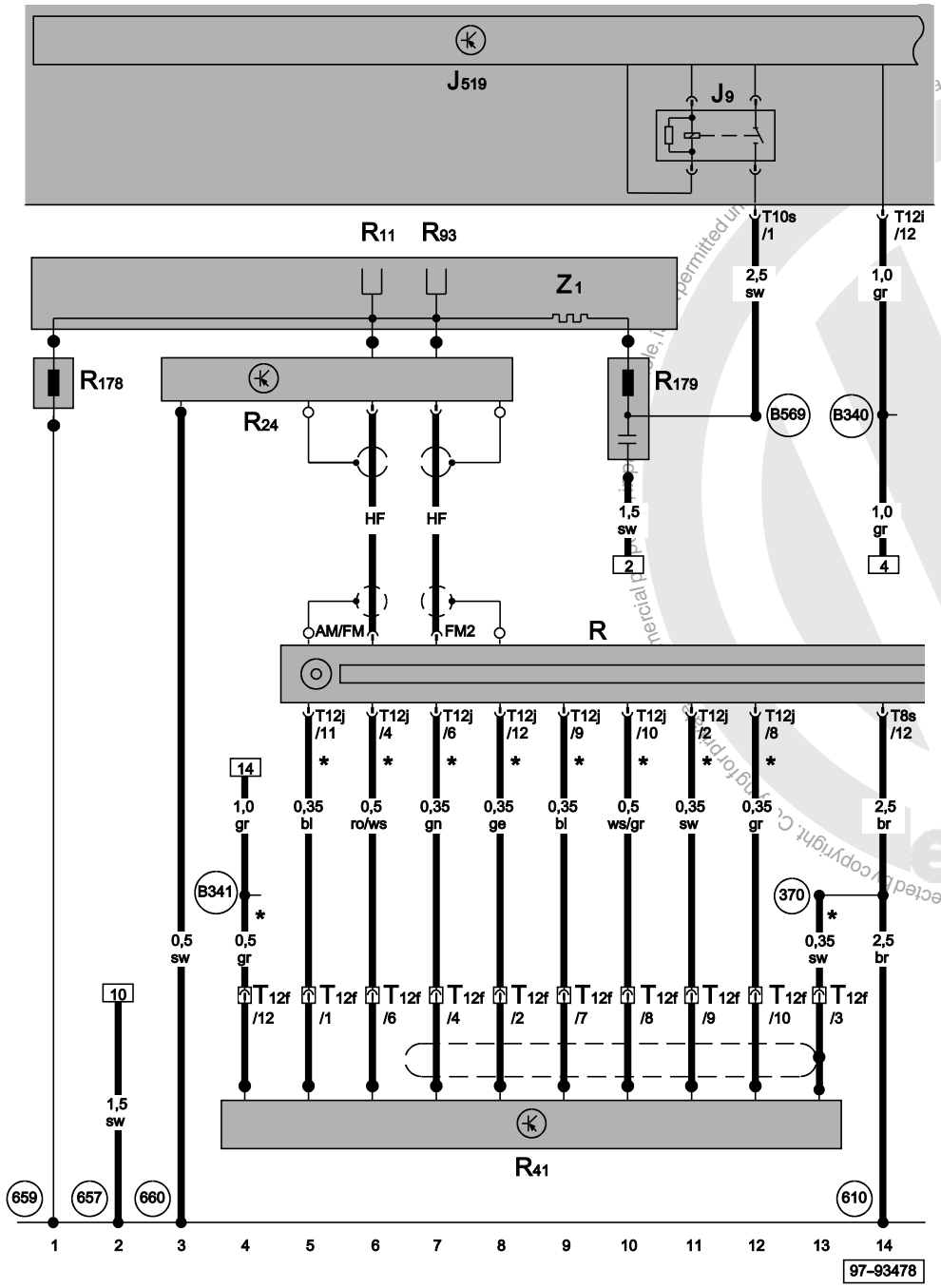
⇒ **CD changer**
⇒ **4 loudspeakers**
⇒ **8 loudspeakers**
from November 2004

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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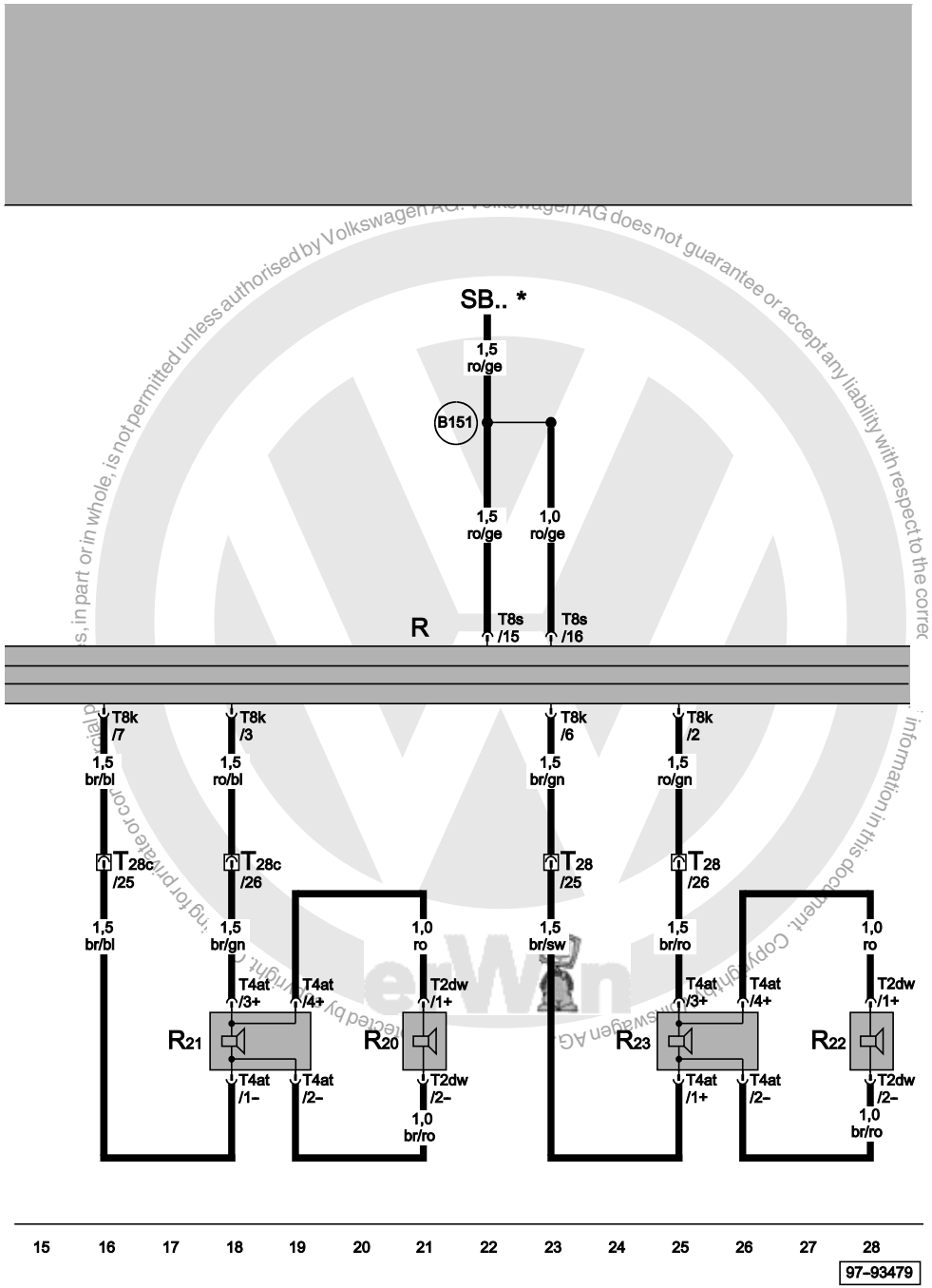


Radio, aerial amplifier, aerial, CD changer, heated rear window relay

J9	Heated rear window relay
J519	Onboard supply control unit
R	Radio
R11	Aerial
R24	Aerial amplifier
R41	CD changer
R93	Radio aerial 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T8s	8-pin connector, black
T10s	10-pin connector, black
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector
Z1	Heated rear window
370	Earth connection 5, in main wiring harness
610	Earth point (audio), under centre console, front
657	Earth point 1, on left near rear window
659	Earth point 1, on right near rear window
660	Earth point 2, on right near rear window
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B569	Connection 36, in main wiring harness
*	for models with external CD changer only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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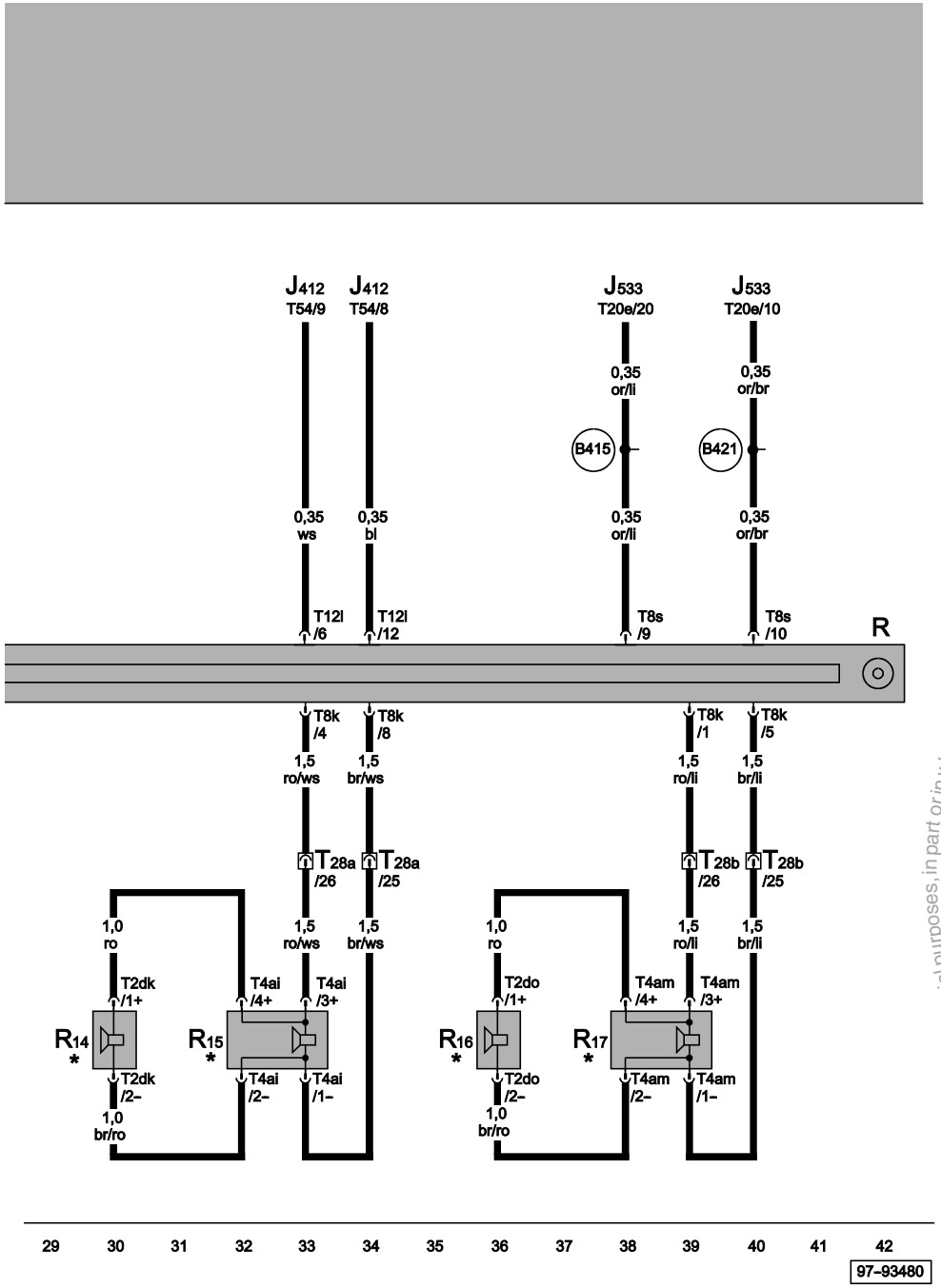


Radio, treble loudspeaker and front doors bass loudspeaker

R	Radio
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
SB	Fuse holder B
T2dw	2-pin connector
T4at	4-pin connector
T8k	8-pin connector, brown
T8s	8-pin connector, black
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
(B151)	Positive connection 3 (30a), in interior wiring harness
*	Fuse location depends on equipment, see fitting locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Radio, treble loudspeaker and rear doors bass loudspeaker

J412	Mobile telephone operating electronics control unit
J533	Data bus diagnostic interface
R	Radio
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T8k	8-pin connector, brown
T8s	8-pin connector, black
T12l	12-pin connector
T20e	20-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
T54	54-pin connector
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	depends on equipment radio RCD 300

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Radio system: RCD 500

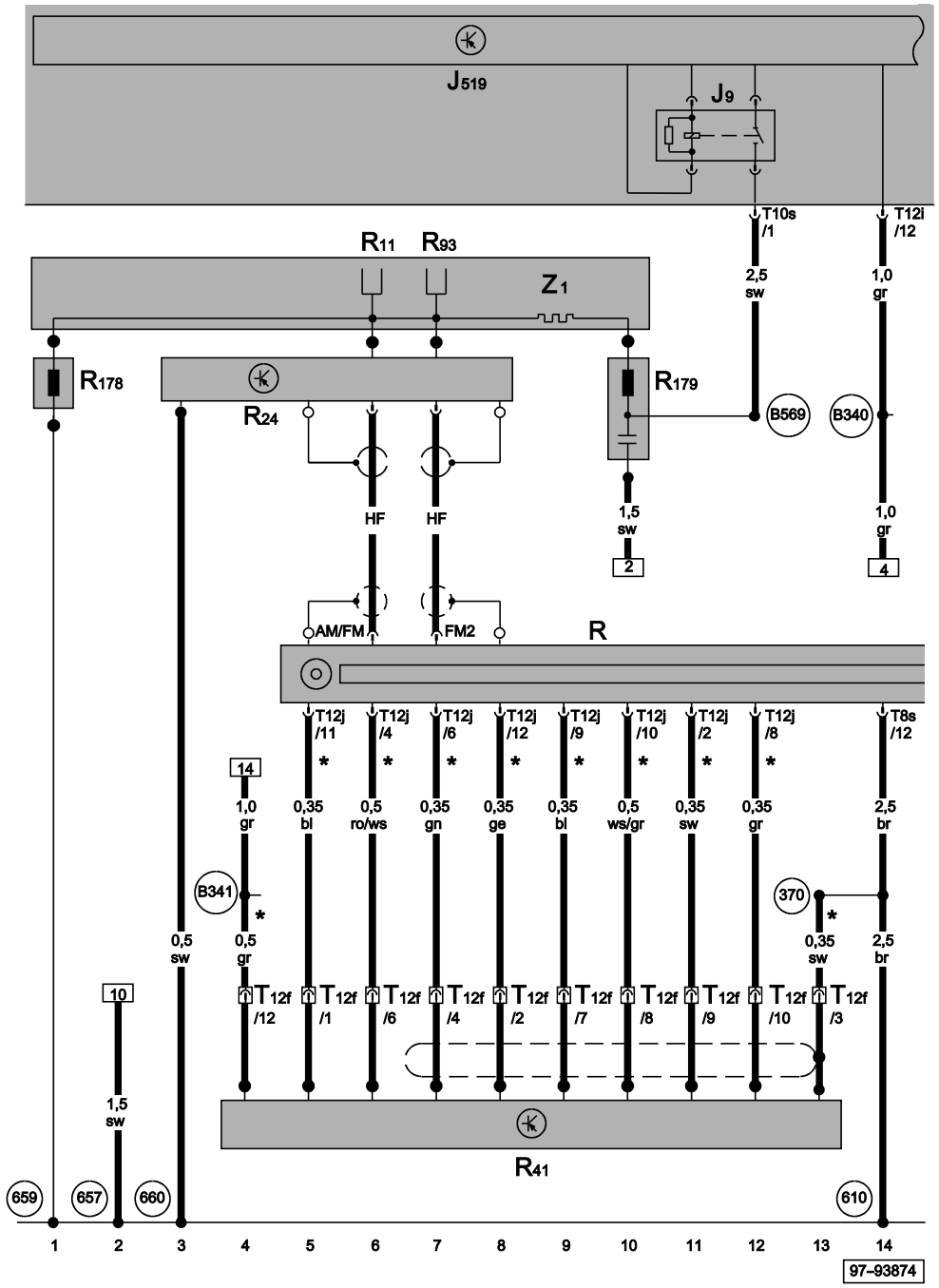
⇒ **CD changer**
⇒ **Volkswagen Sound**
⇒ **Dynaudio Sound**
from November 2004

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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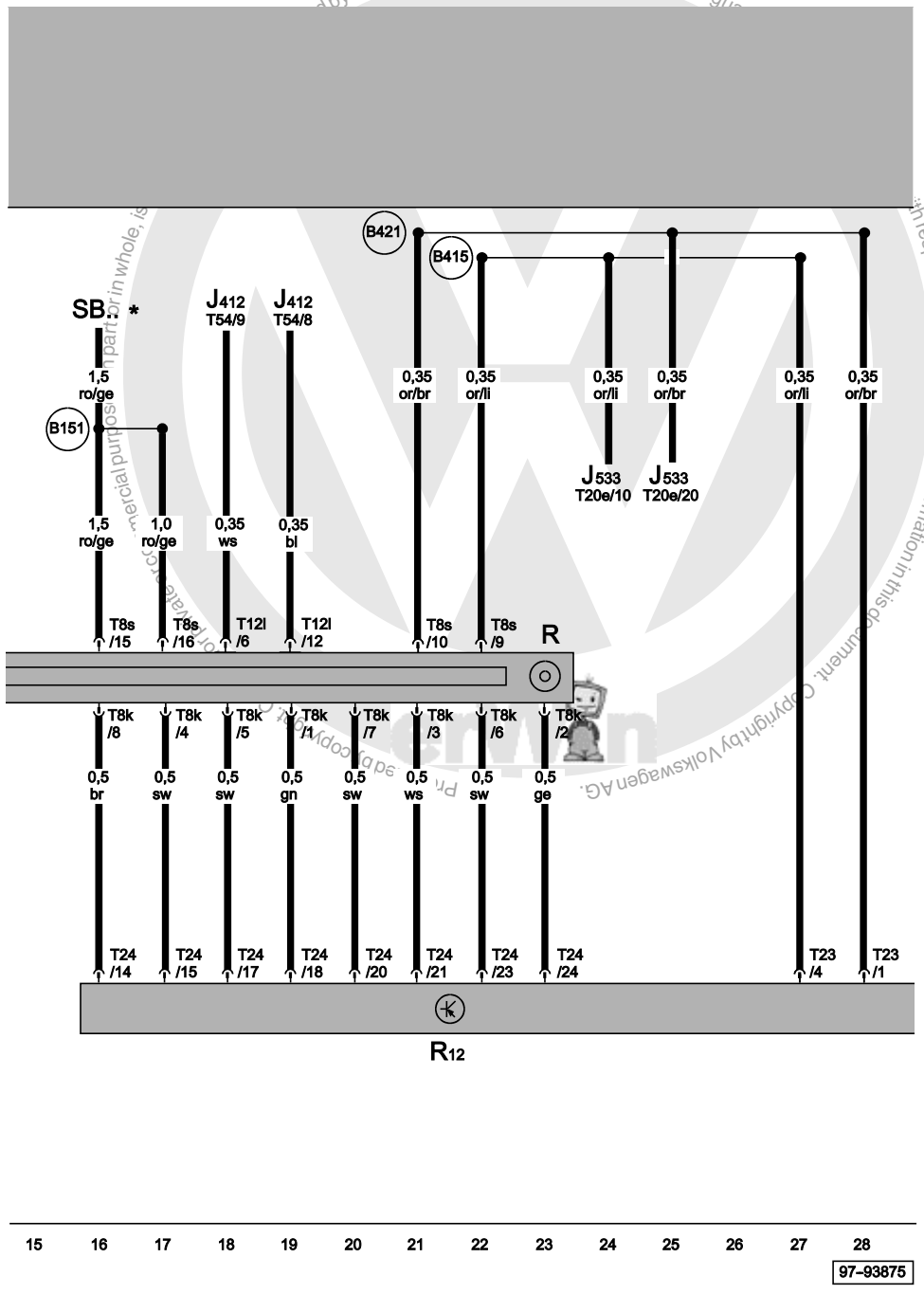


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Radio, aerial amplifier, aerial, CD changer, heated rear window relay

J9	Heated rear window relay
J519	Onboard supply control unit
R	Radio
R11	Aerial
R24	Aerial amplifier
R41	CD changer
R93	Radio aerial 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T8s	8-pin connector, black
T10s	10-pin connector, black
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector
Z1	Heated rear window
370	Earth connection 5, in main wiring harness
610	Earth point (audio), under centre console, front
657	Earth point 1, on left near rear window
659	Earth point 1, on right near rear window
660	Earth point 2, on right near rear window
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B569	Connection 36, in main wiring harness
*	for models with external CD changer only

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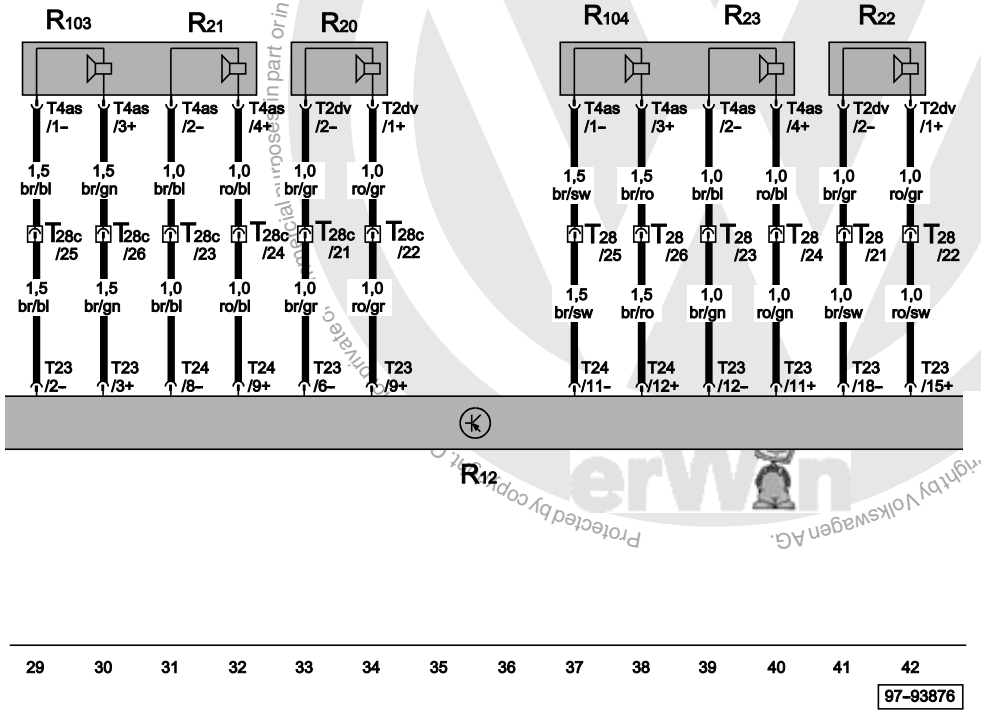


Radio, amplifier

J412	Mobile telephone operating electronics control unit
J533	Data bus diagnostic interface
R	Radio
R12	Amplifier
SB	Fuse holder B
T8k	8-pin connector, brown
T8s	8-pin connector, black
T12l	12-pin connector
T20e	20-pin connector
T23	23-pin connector
T24	24-pin connector
T54	54-pin connector
B151	Positive connection 3 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Fuse location depends on equipment, see fitting locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink





Amplifier, treble tone-, mid-range- and front doors bass loudspeakers

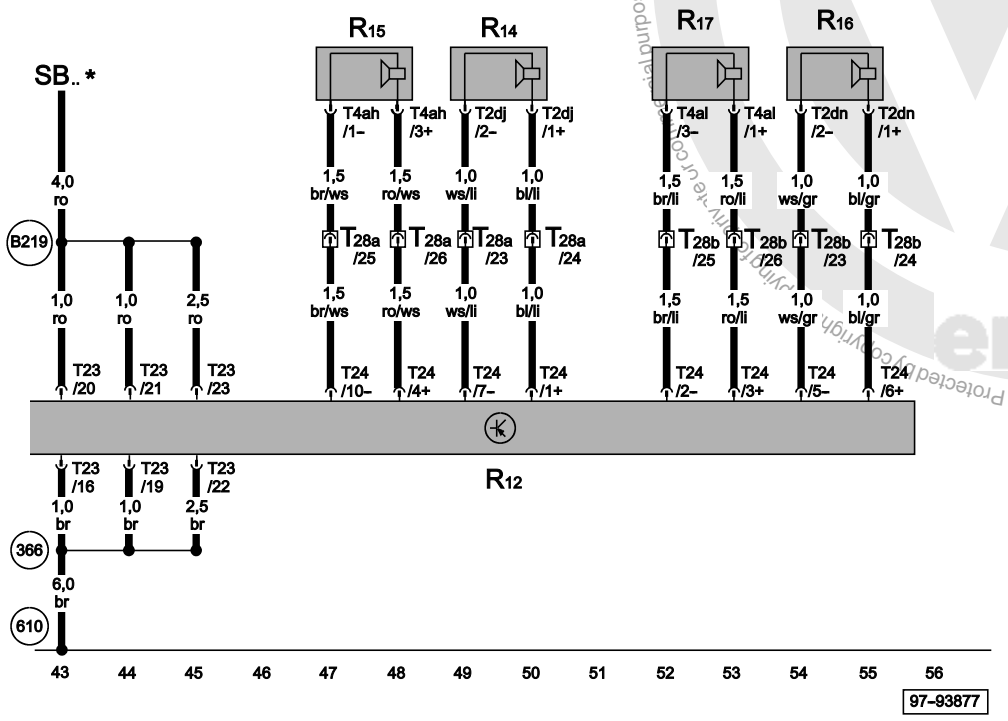
R12	Amplifier
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R103	Front left mid-range loudspeaker
R104	Front right mid-range loudspeaker
T2dv	2-pin connector
T4as	4-pin connector
T23	23-pin connector
T24	24-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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rs	=	pink

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Amplifier, treble tone- and rear doors bass loudspeakers

R12	Amplifier
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
SB	Fuse holder B
T2dj	2-pin connector
T2dn	2-pin connector
T4ah	4-pin connector
T4al	4-pin connector
T23	23-pin connector
T24	24-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
366	Earth connection 1, in main wiring harness
610	Earth point (audio), under centre console, front
B219	Positive connection 4 (30a), in interior wiring harness
*	Fuse location depends on equipment, see fitting locations



ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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rs	=	pink

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Radio and navigation system: RNS MFD2

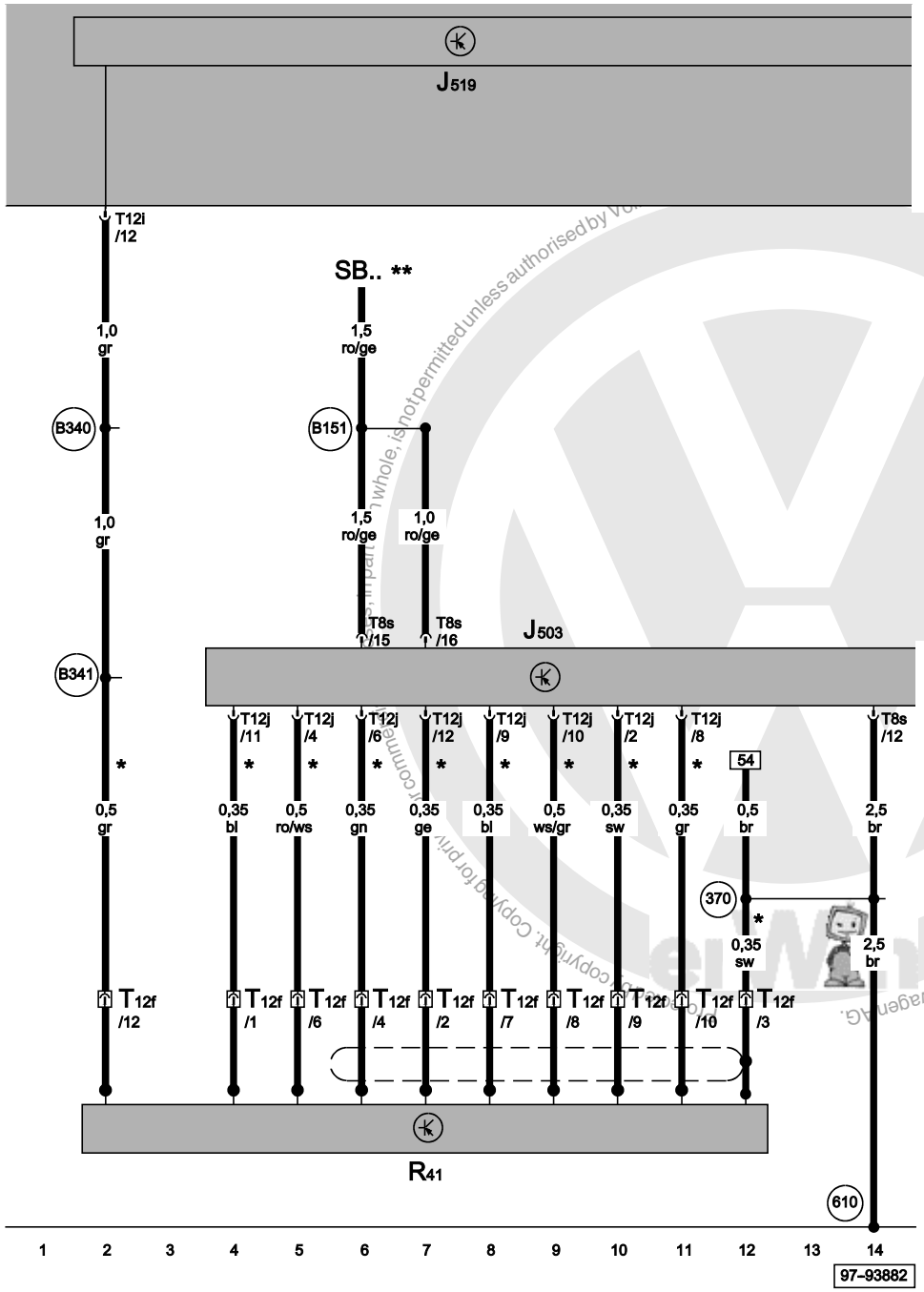
⇒ **CD changer**
⇒ **8 loudspeakers**
from November 2004

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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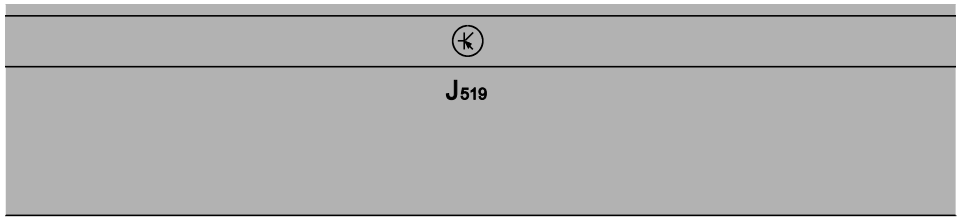


Control unit with display for radio and navigation system, CD changer

J503	Control unit with display for radio and navigation system
J519	Onboard supply control unit
R41	CD changer
SB	Fuse holder B
T8s	8-pin connector, black
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), under centre console, front
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	for models with external CD changer only
**	Fuse location depends on equipment, see fitting locations

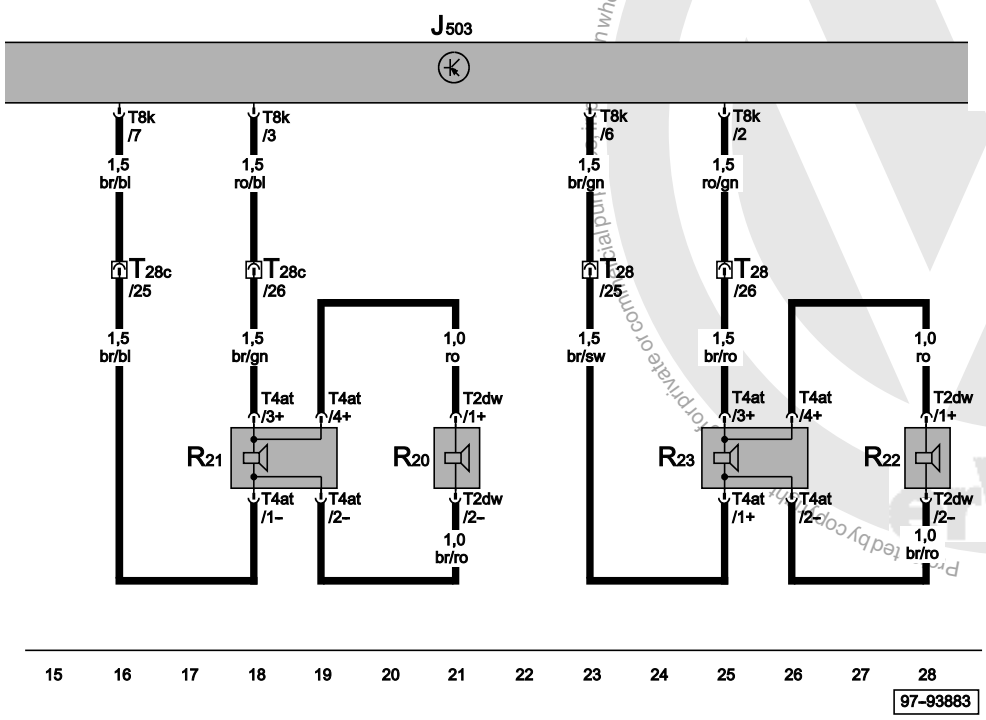
ws	=	white
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br	=	brown
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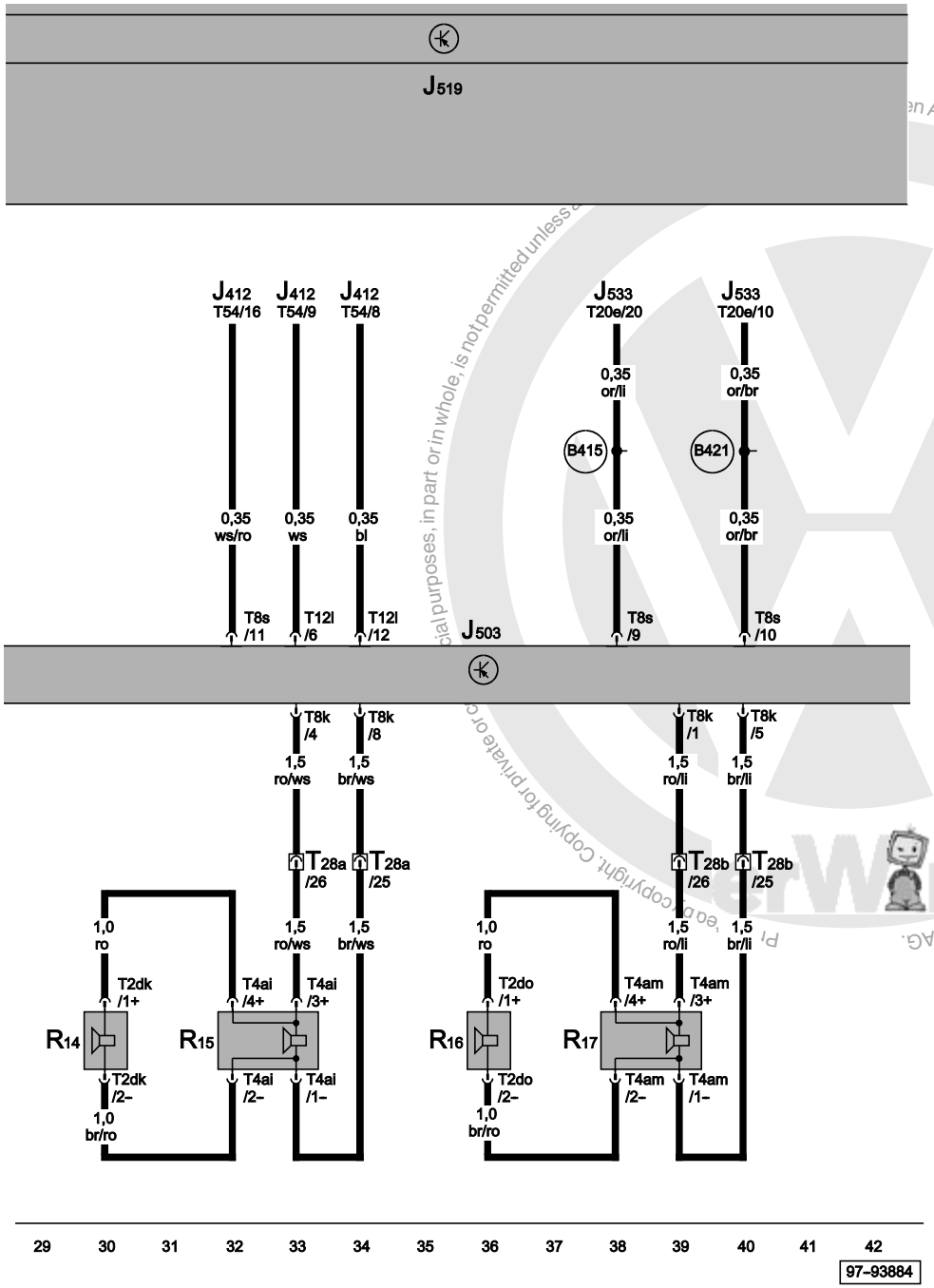
Control unit with display for radio and navigation, treble loudspeaker and front door bass loudspeaker

J503	Control unit with display for radio and navigation system
J519	Onboard supply control unit
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
T2dw	2-pin connector
T4at	4-pin connector
T8k	8-pin connector, brown
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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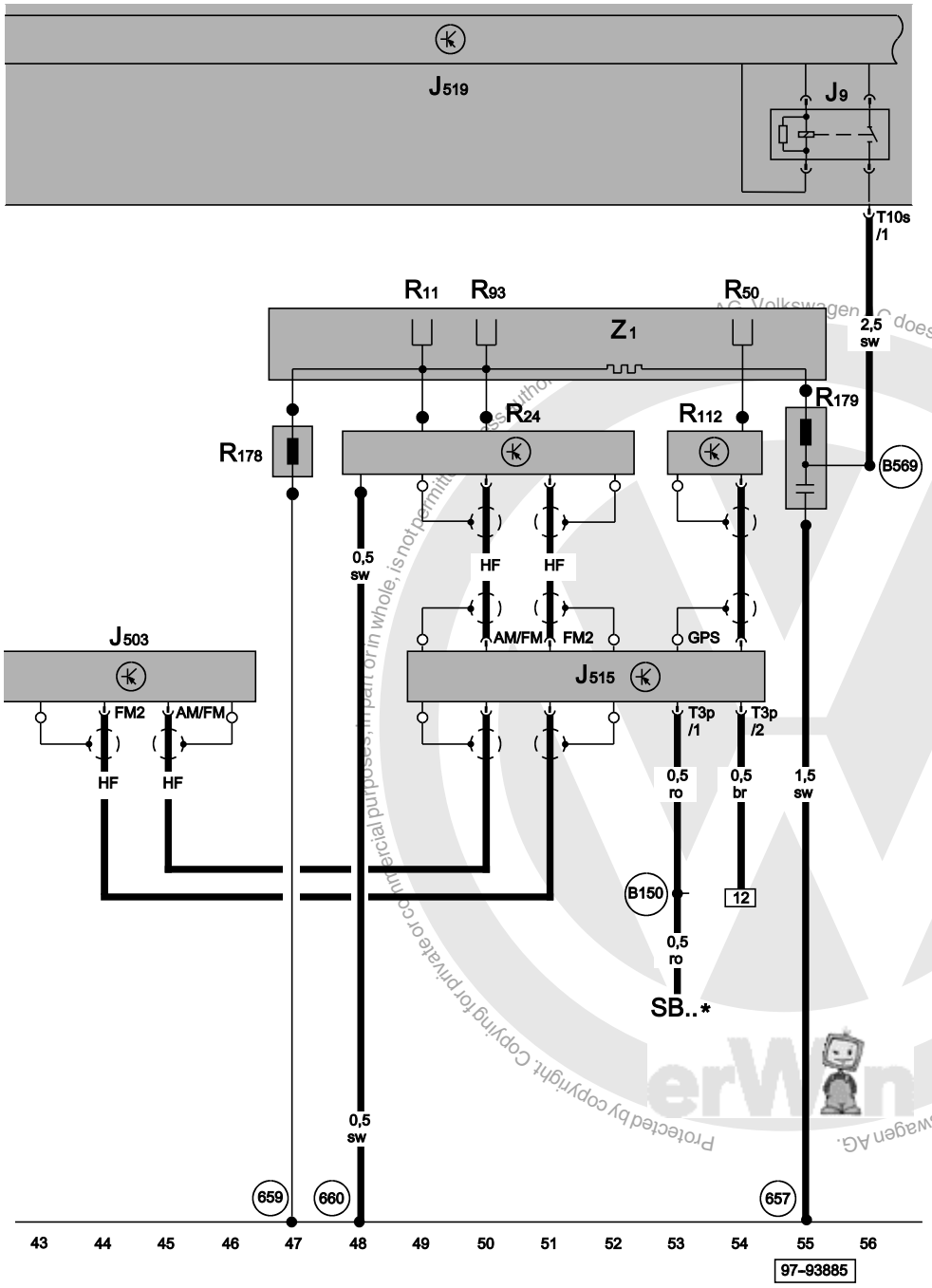


Control unit with display for radio and navigation, treble loudspeaker and rear door bass loudspeaker

J412	Mobile telephone operating electronics control unit
J503	Control unit with display for radio and navigation system
J519	Onboard supply control unit
J533	Data bus diagnostic interface
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T8k	8-pin connector, brown
T8s	8-pin connector, black
T12l	12-pin connector
T20e	20-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
T54	54-pin connector
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Control unit with display for radio and navigation system, aerial amplifier, aerial selection control unit

J9	Heated rear window relay
J503	Control unit with display for radio and navigation system
J515	Aerial selection control unit
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R112	Aerial amplifier 3
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
SB	Fuse holder B
T3p	3-pin connector
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
659	Earth point 1, on right near rear window
660	Earth point 2, on right near rear window
B150	Positive connection 2 (30a), in interior wiring harness
B569	Connection 36, in main wiring harness
*	Fuse location depends on equipment, see fitting locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Radio and navigation system: RNS MFD2-DVD

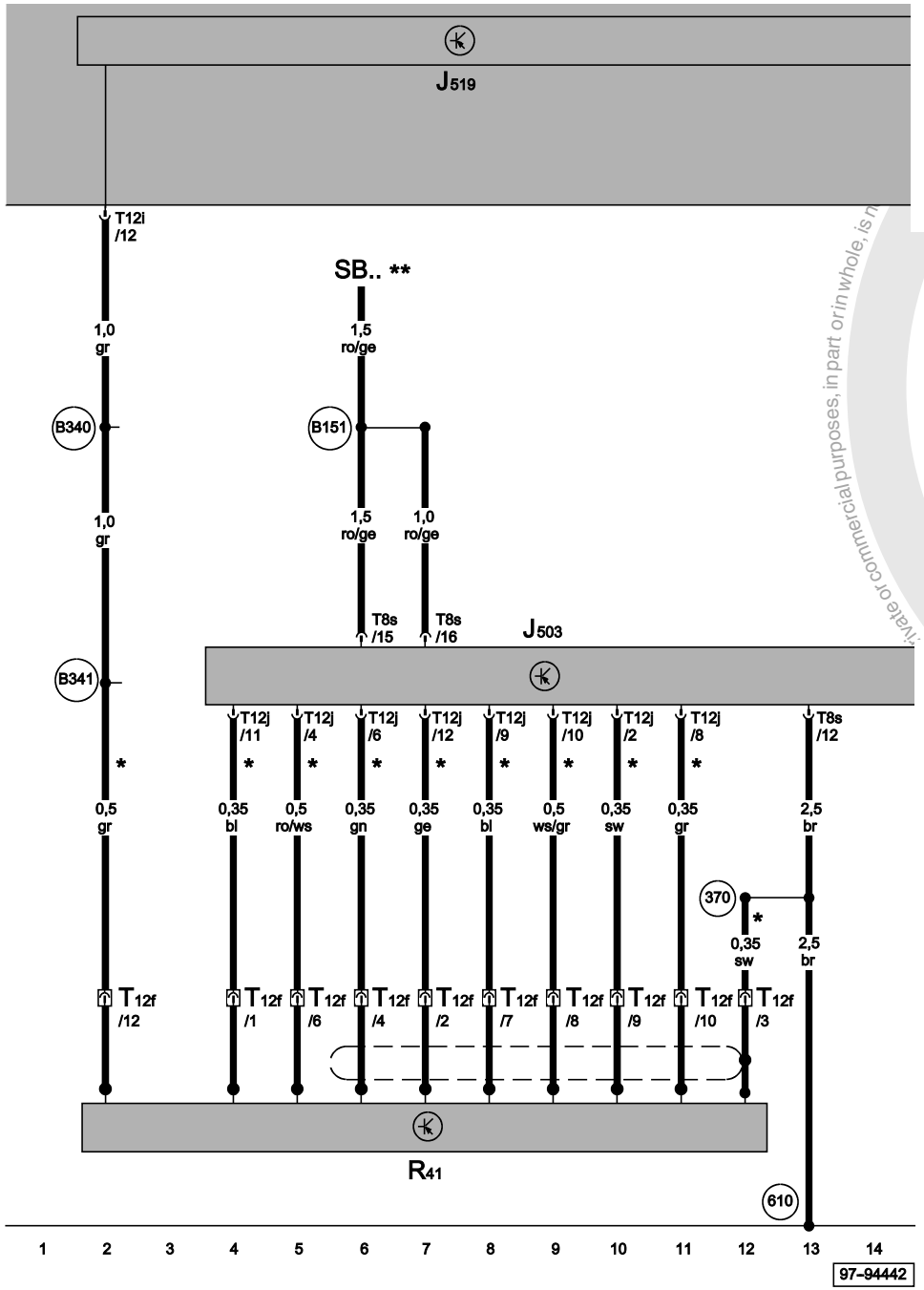
⇒ **CD changer**
⇒ **Volkswagen Sound**
⇒ **Dynaudio Sound**
from November 2004

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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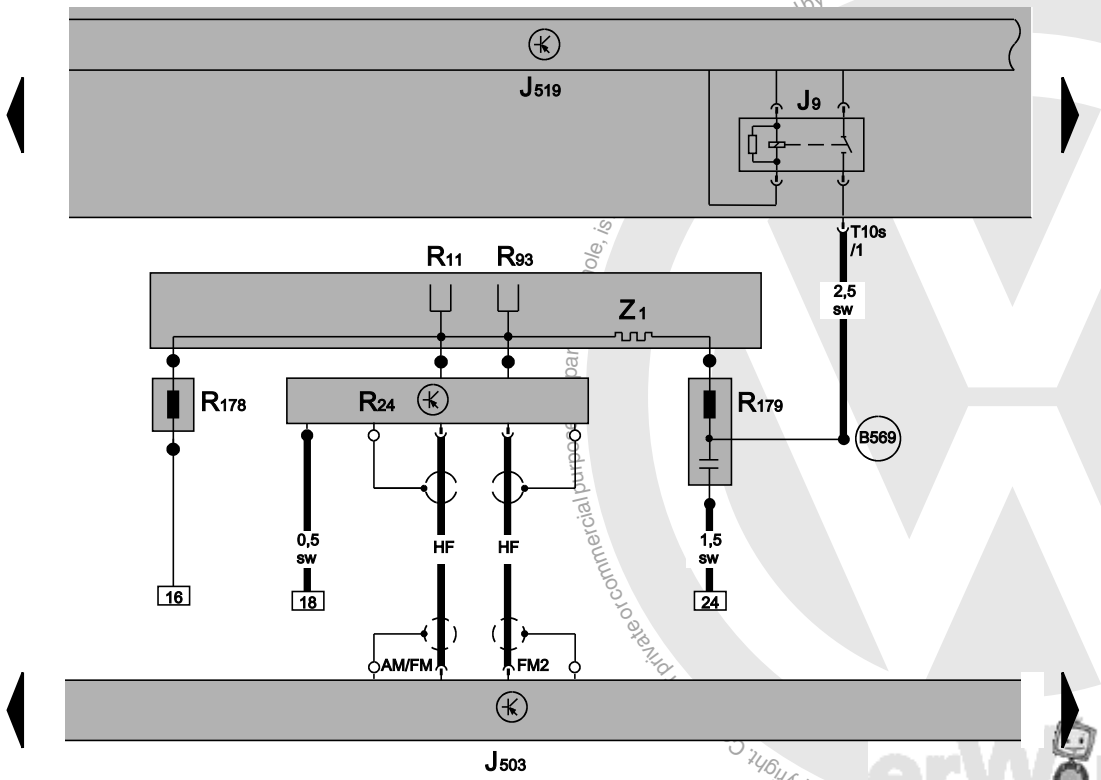


Control unit with display for radio and navigation system, CD changer

J503	Control unit with display for radio and navigation system
J519	Onboard supply control unit
R41	CD changer
SB	Fuse holder B
T8s	8-pin connector, black
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), under centre console, front
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	for models with external CD changer only
**	Fuse location depends on equipment, see fitting locations

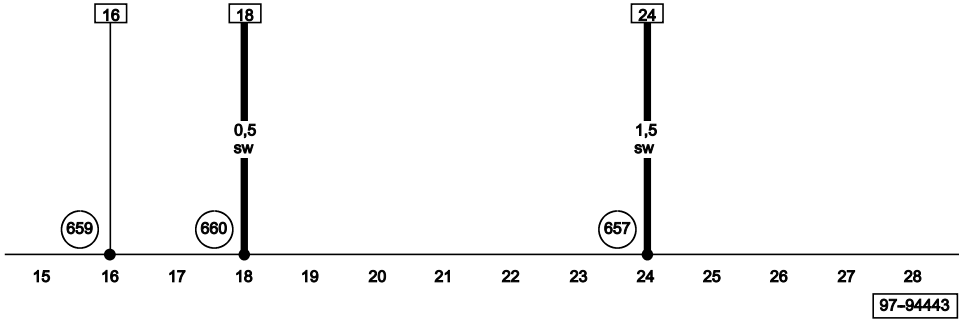
ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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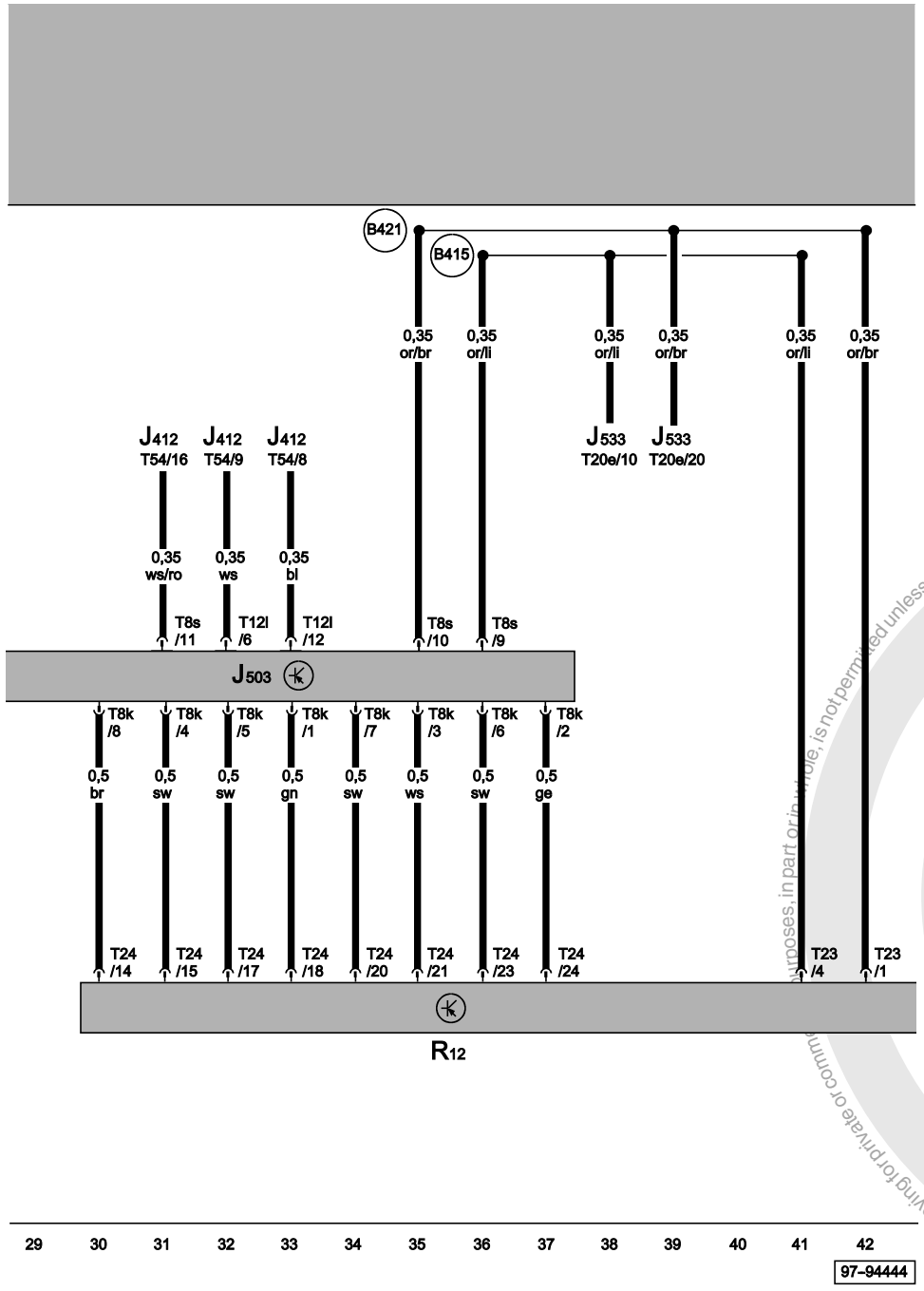
Radio, aerial amplifier, aerial, CD changer, heated rear window relay

J9	Heated rear window relay
J503	Control unit with display for radio and navigation system
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R93	Radio aerial 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
659	Earth point 1, on right near rear window
660	Earth point 2, on right near rear window
B569	Connection 36, in main wiring harness



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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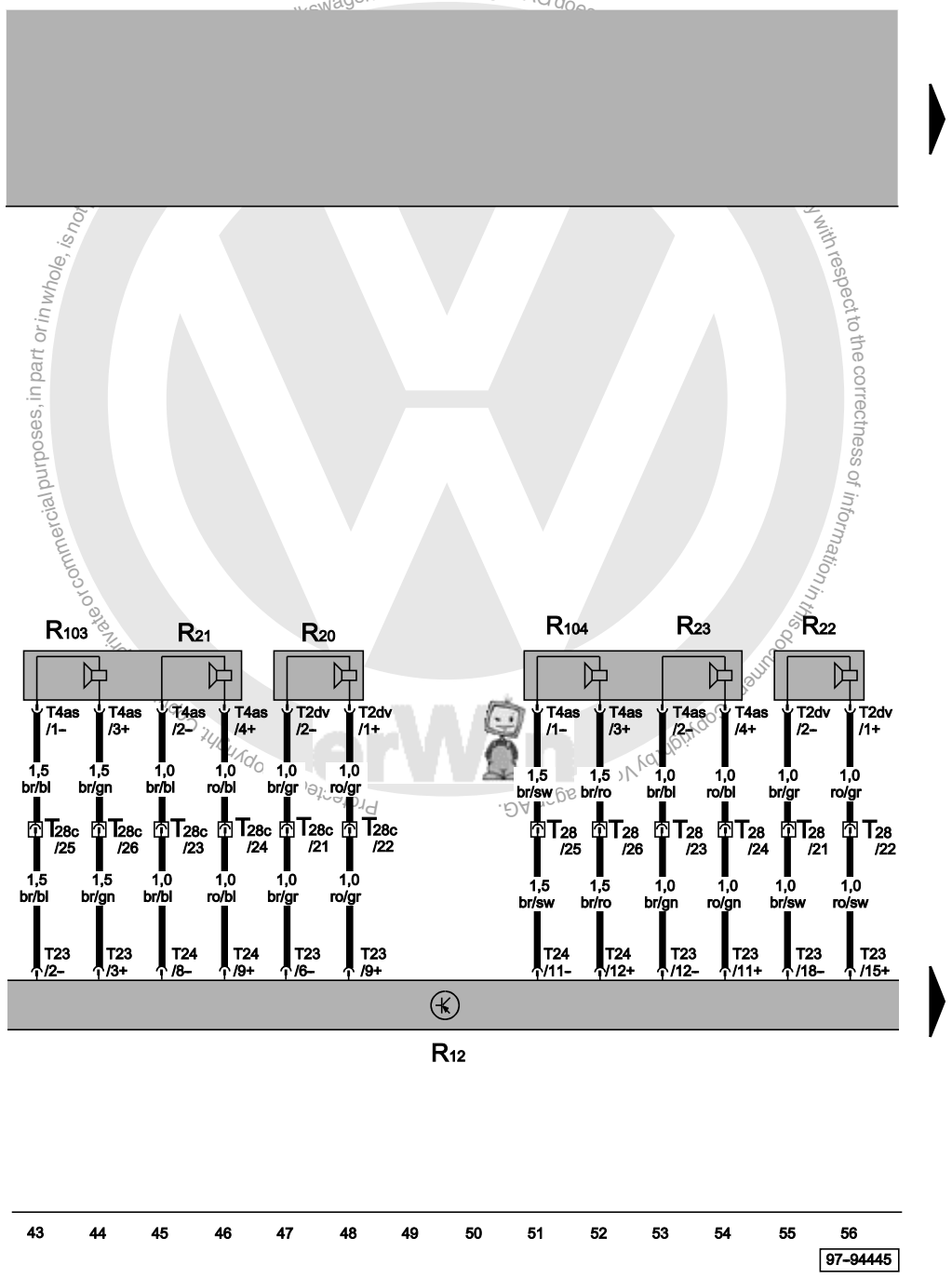


Control unit with display for radio and navigation system, amplifier

J412	Mobile telephone operating electronics control unit
J503	Control unit with display for radio and navigation system
R12	Amplifier
J533	Data bus diagnostic interface
T8k	8-pin connector, brown
T8s	8-pin connector, black
T12l	12-pin connector
T20e	20-pin connector
T23	23-pin connector
T24	24-pin connector
T54	54-pin connector
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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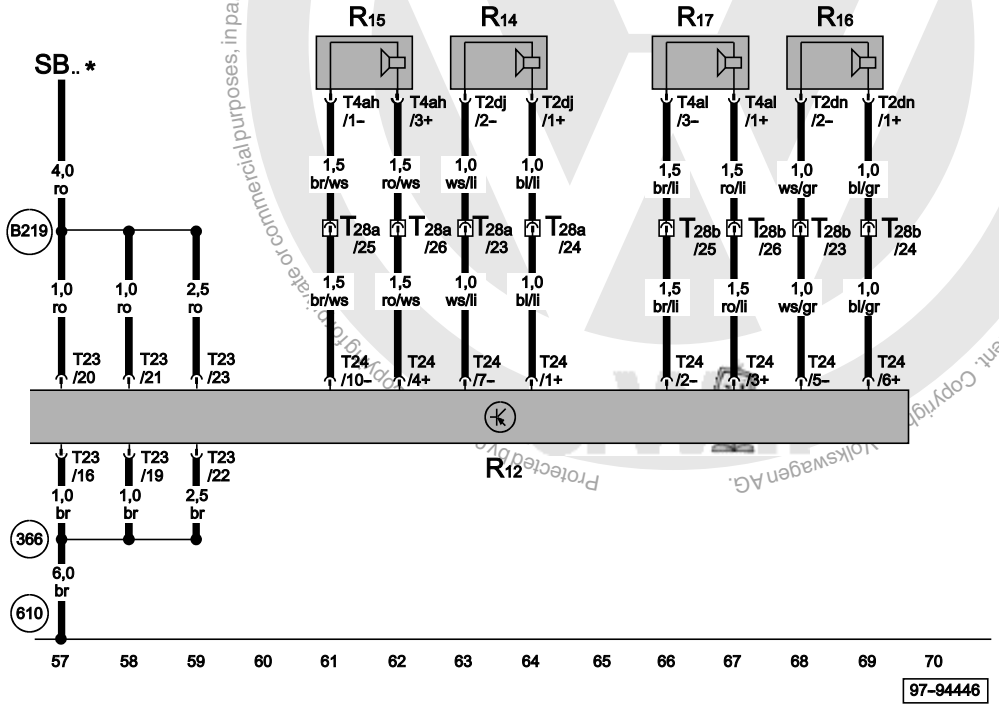
Amplifier, treble tone-, mid-range- and front doors bass loudspeakers

R12	Amplifier
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R103	Front left mid-range loudspeaker
R104	Front right mid-range loudspeaker
T2dv	2-pin connector
T4as	4-pin connector
T23	23-pin connector
T24	24-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Amplifier, treble tone- and rear doors bass loudspeakers

R12	Amplifier
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
SB	Fuse holder B
T2dj	2-pin connector
T2dn	2-pin connector
T4ah	4-pin connector
T4al	4-pin connector
T23	23-pin connector
T24	24-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
366	Earth connection 1, in main wiring harness
610	Earth point (audio), under centre console, front
B219	Positive connection 4 (30a), in interior wiring harness
*	Fuse location depends on equipment, see fitting locations



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Multimedia system RSE (Rear-Seat-Entertainment)

from May 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

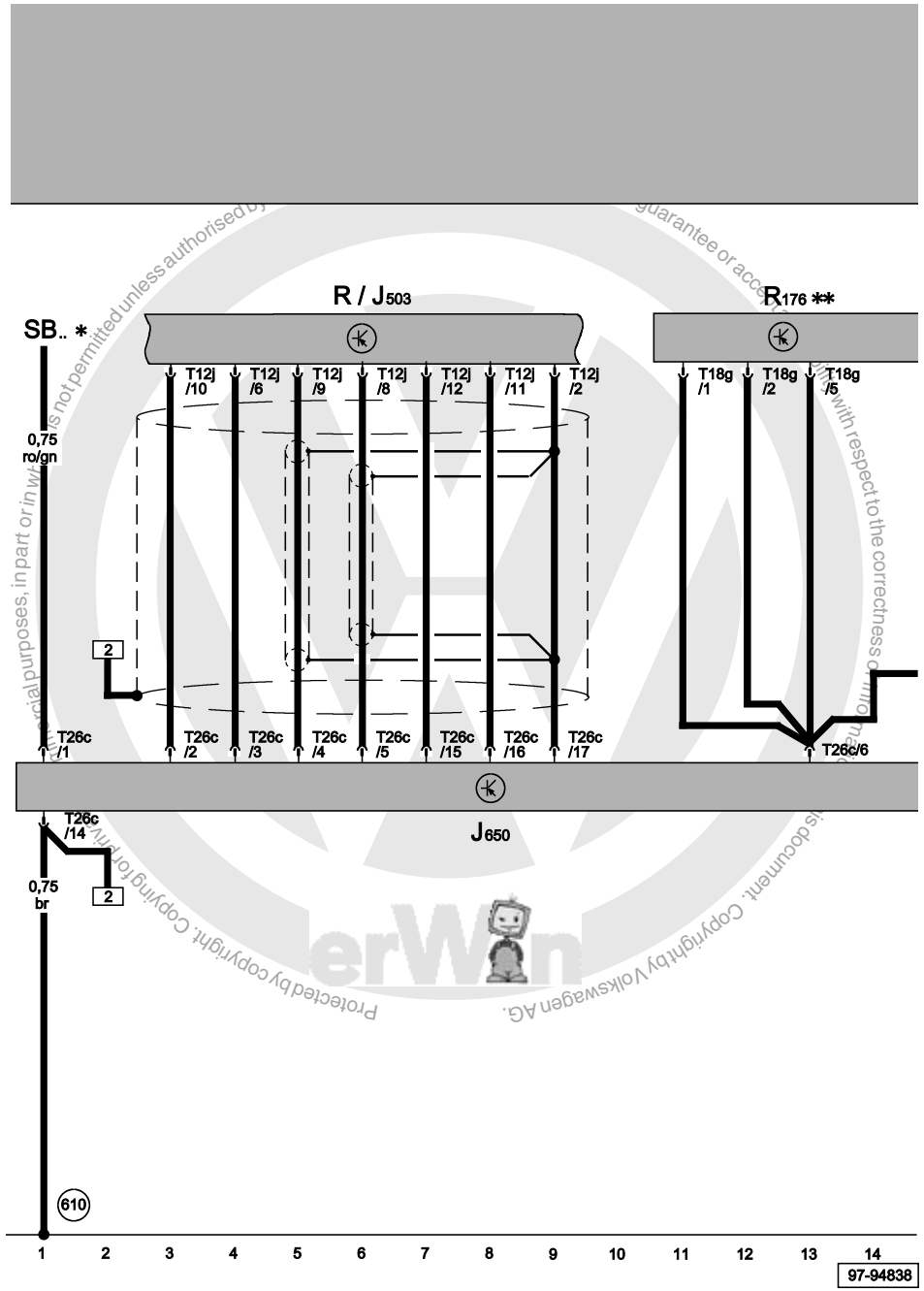
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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Voltage supply, multimedia control unit, radio/ control unit with display for radio and navigation, additional connections unit for audio and video

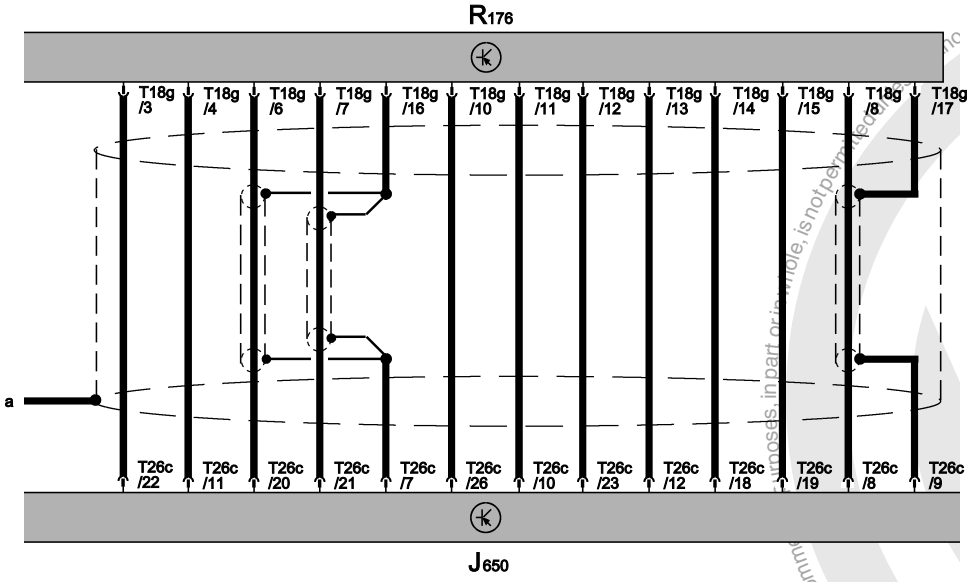
R	Radio
R176	Additional connections unit for audio and video
J503	Control unit with display for radio and navigation system
J650	Multimedia control unit
SB	Fuse on fuse holder B
T12j	12-pin connector
T18g	18-pin connector
T26c	26-pin connector
(610)	Earth point (audio), under centre console, front
*	Fuse location depends on equipment, see fitting locations
**	in rear centre console

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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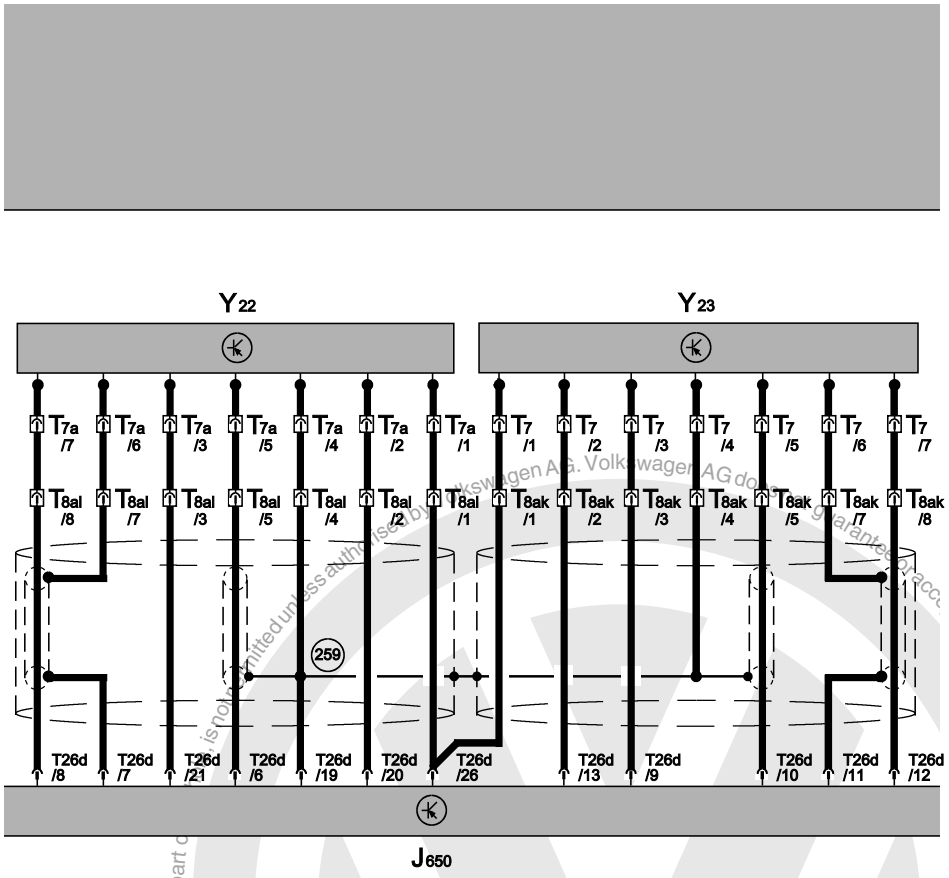
Multimedia control unit, additional connections unit for audio and video

R176 Additional connections unit for audio and video, in rear centre console
J650 Multimedia control unit
T18g 18-pin connector
T26c 26-pin connector



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Multimedia display unit 1 and 2, multimedia control unit

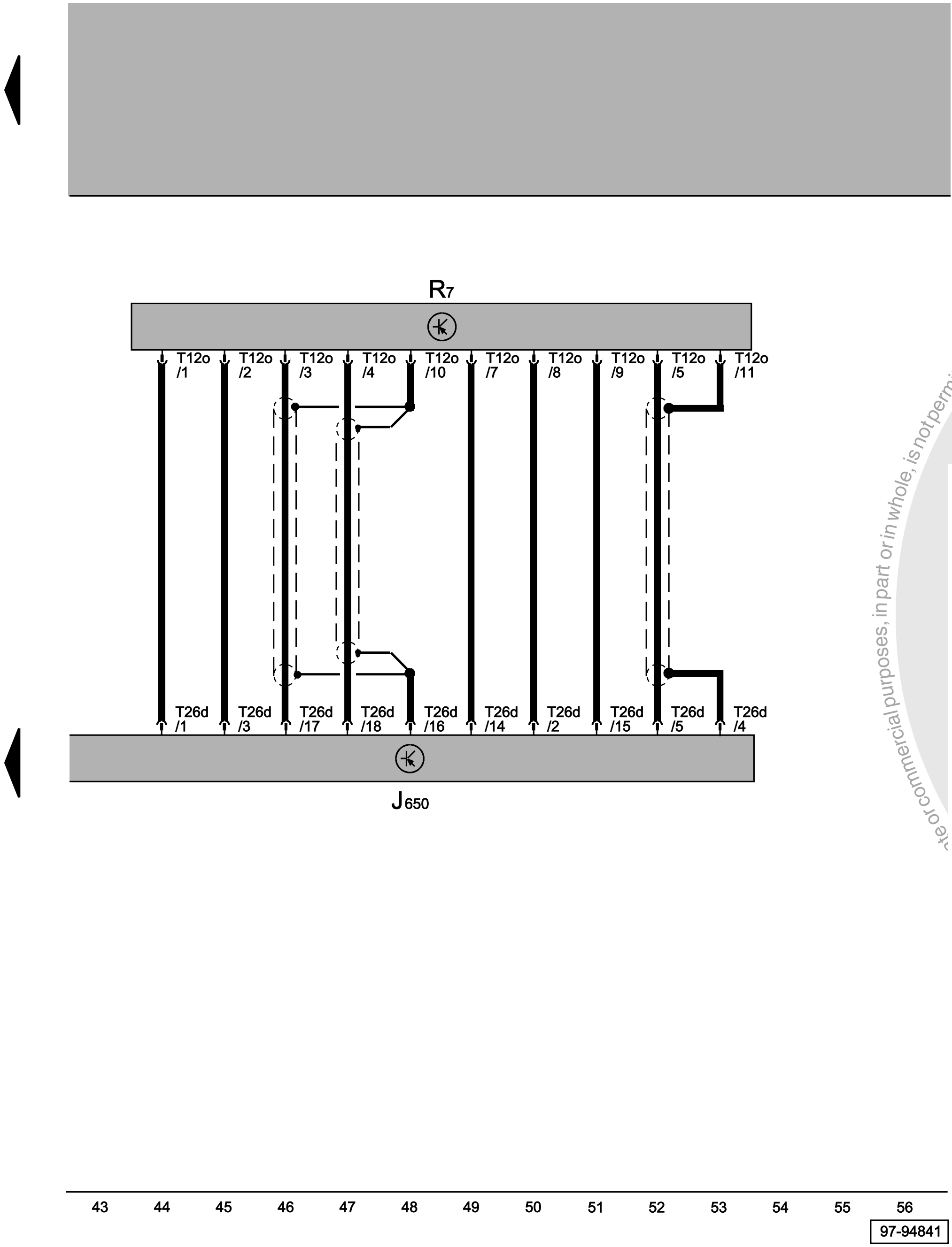
J650	Multimedia control unit
T7	7-pin connector, in seat backrest front passenger side
T7a	7-pin connector, in seat backrest driver side
T8ak	8-pin connector, under front passenger seat
T8al	8-pin connector, under driver seat
T26d	26-pin connector
Y22	Multimedia display unit 1
Y23	Multimedia display unit 2
(259)	Earth connection 2, in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Multimedia control unit, DVD player

J650	Multimedia control unit
R7	DVD player
T12o	12-pin connector
T26d	26-pin connector



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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Universal cellphone preparation (UHV) - Low

From April 2005

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

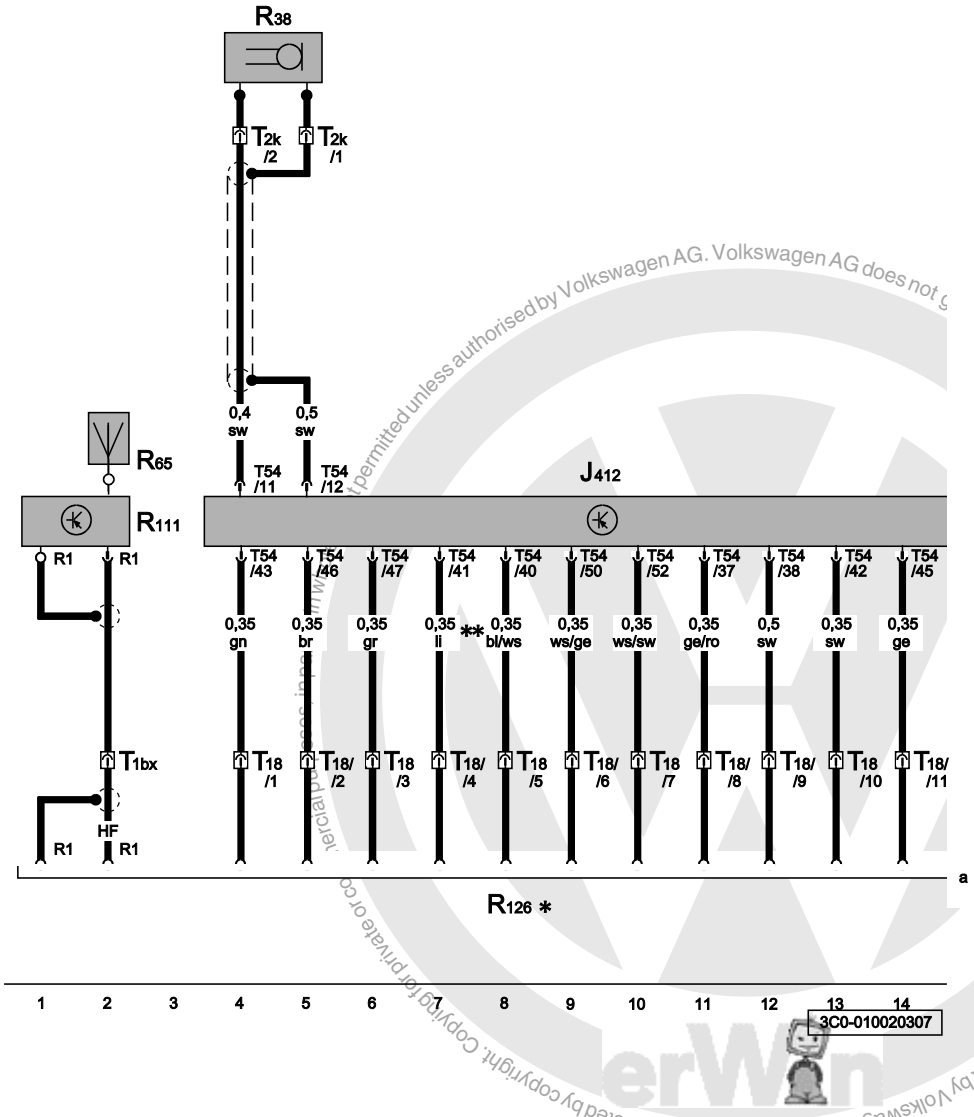
- Fault Finding Programs

⇒ Guided Fault Finding

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Control unit for mobile telephone operating electronics, telephone microphone, mobile telephone aerial, mobile telephone holder

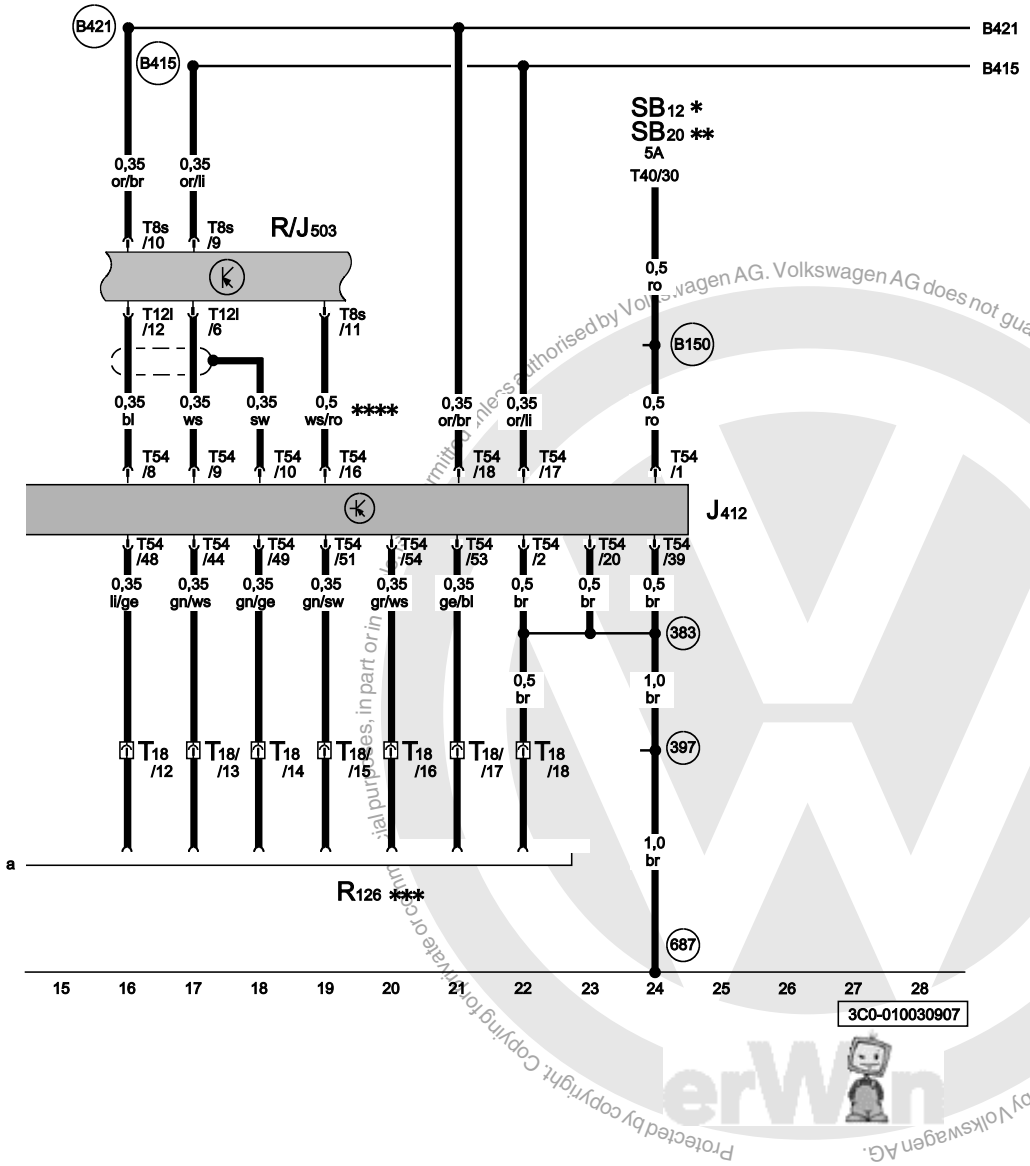
J412	Control unit for cellphone operating electronics
R1	Aerial connection
R38	Telephone microphone
R65	Telephone aerial
R111	Aerial amplifier 2
R126	Telephone bracket
T1bx	Single connector, behind dash panel, near centre console
T2k	2-pin connector
T18	18-pin connector, behind dash panel, near centre console
T54	54-pin connector
*	mounting for loading unit
**	Discontinued from March 2007



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Control unit for mobile telephone operating electronics, control unit with display for radio and navigation system, mobile telephone holder

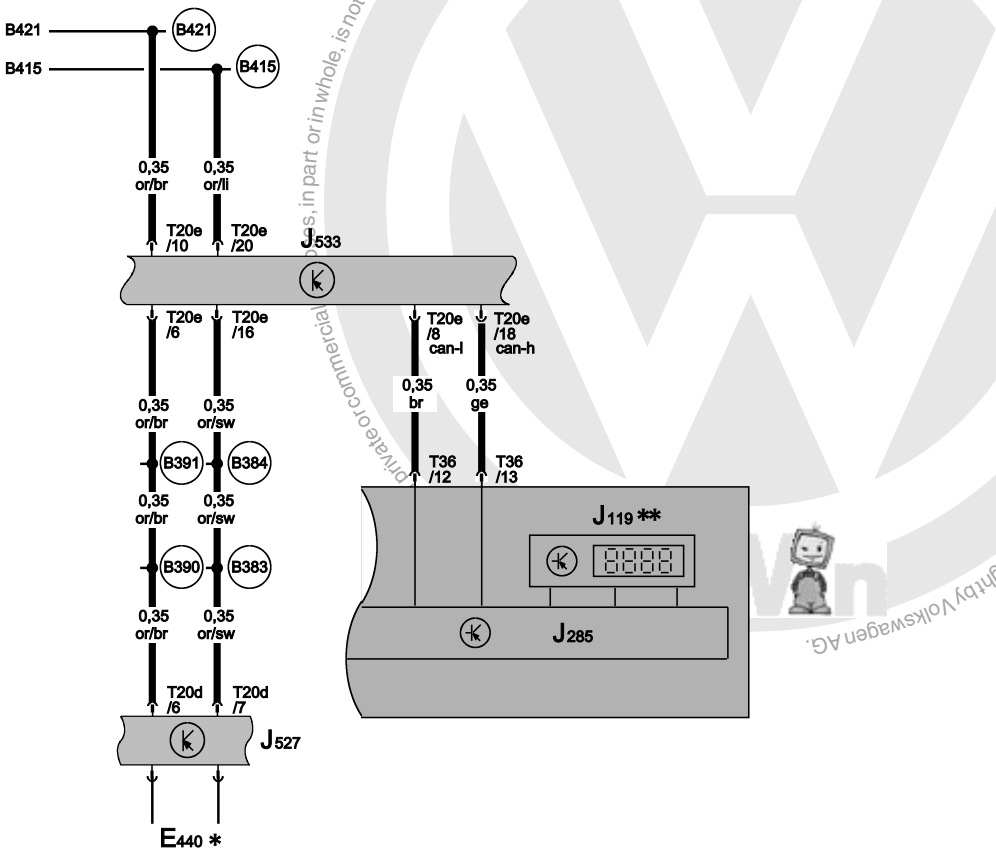


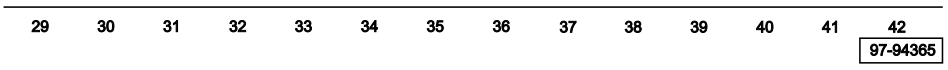
ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

J412	Control unit for cellphone operating electronics
J503	Control unit with display for radio and navigation
R	Radio
R126	Telephone bracket
SB12	Fuse 12 on fuse holder B
SB20	Fuse 20 on fuse holder B
T8s	8-pin connector
T12l	12-pin connector
T18	18-pin connector, behind dash panel, near centre console
T40	40-pin connector, under E-box, in engine compartment
T54	54-pin connector
397	Earth connection 32, in main wiring harness
383	Earth connection 18, in main wiring harness
687	Earth point 1, on centre tunnel
B150	Positive connection 2 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only on vehicles with E-box low
**	Only on vehicles with E-box high
***	mounting for loading unit
****	Discontinued from January 2007

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Data bus diagnosis interface, control unit in dash panel insert, multifunction display, multifunction buttons on left in steering wheel





ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

E440	Multifunction buttons on left in steering wheel
J119	Multifunction display
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
T20d	20-pin connector
T20e	20-pin connector
T36	36-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only on vehicles with multifunction steering wheel, see CFD multifunction steering wheel
**	Only on vehicles with multifunction display

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Headlight washer system

From November 2004

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

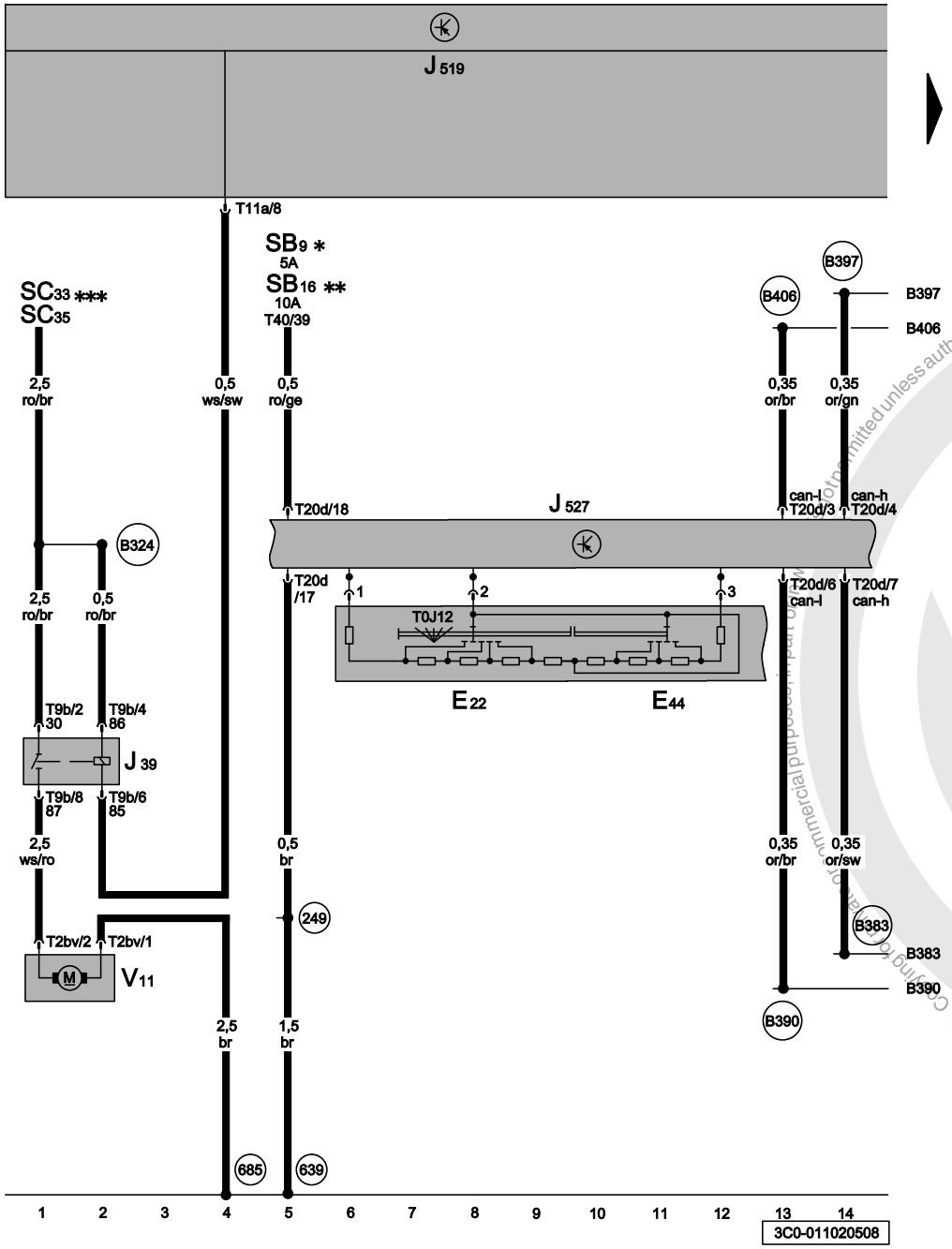
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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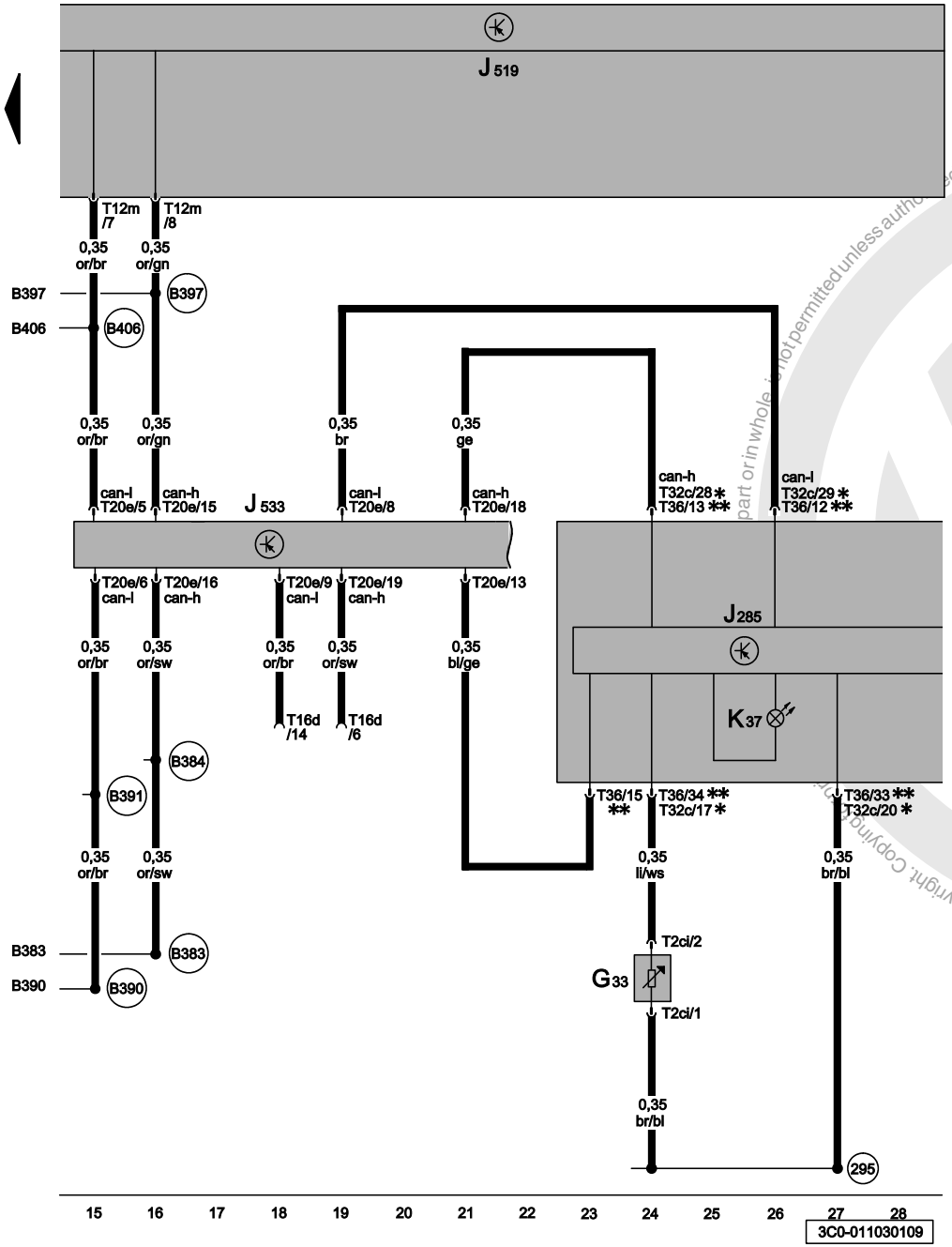


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Steering column electronics control unit, headlight washer system relay, headlight washer system pump

E22	Intermittent wiper switch
E44	Washer pump switch (automatic wash/wipe and headlight washer system)
J39	Headlight washer system relay
J519	Onboard supply control unit
J527	Steering column electronics control unit
SB9	Fuse 9 on fuse holder B
SB16	Fuse 16 on fuse holder B
SC33	Fuse 33 on fuse holder C
SC35	Fuse 35 on fuse holder C
T2bv	2-pin connector
T9b	9-pin connector
T11a	11-pin connector, brown
T20d	20-pin connector
T40	40-pin connector
V11	Headlight washer system pump
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
685	Earth point 1 at front of right longitudinal member
B324	Connection 10 (30a), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Applicable from May 2008

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ro = red
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gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Data bus diagnostic interface, control unit in dash panel insert, windscreen washer fluid level sender, windscreen washer fluid level sender

G33	Windscreen washer fluid level sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
K37	Washer fluid level warning lamp
T2ci	2-pin connector
T12m	12-pin connector, black
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
295	Earth connection 10, in interior wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008

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Auxiliary heater

⇒ **With radio remote receiver for auxiliary heater**

From November 2004

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

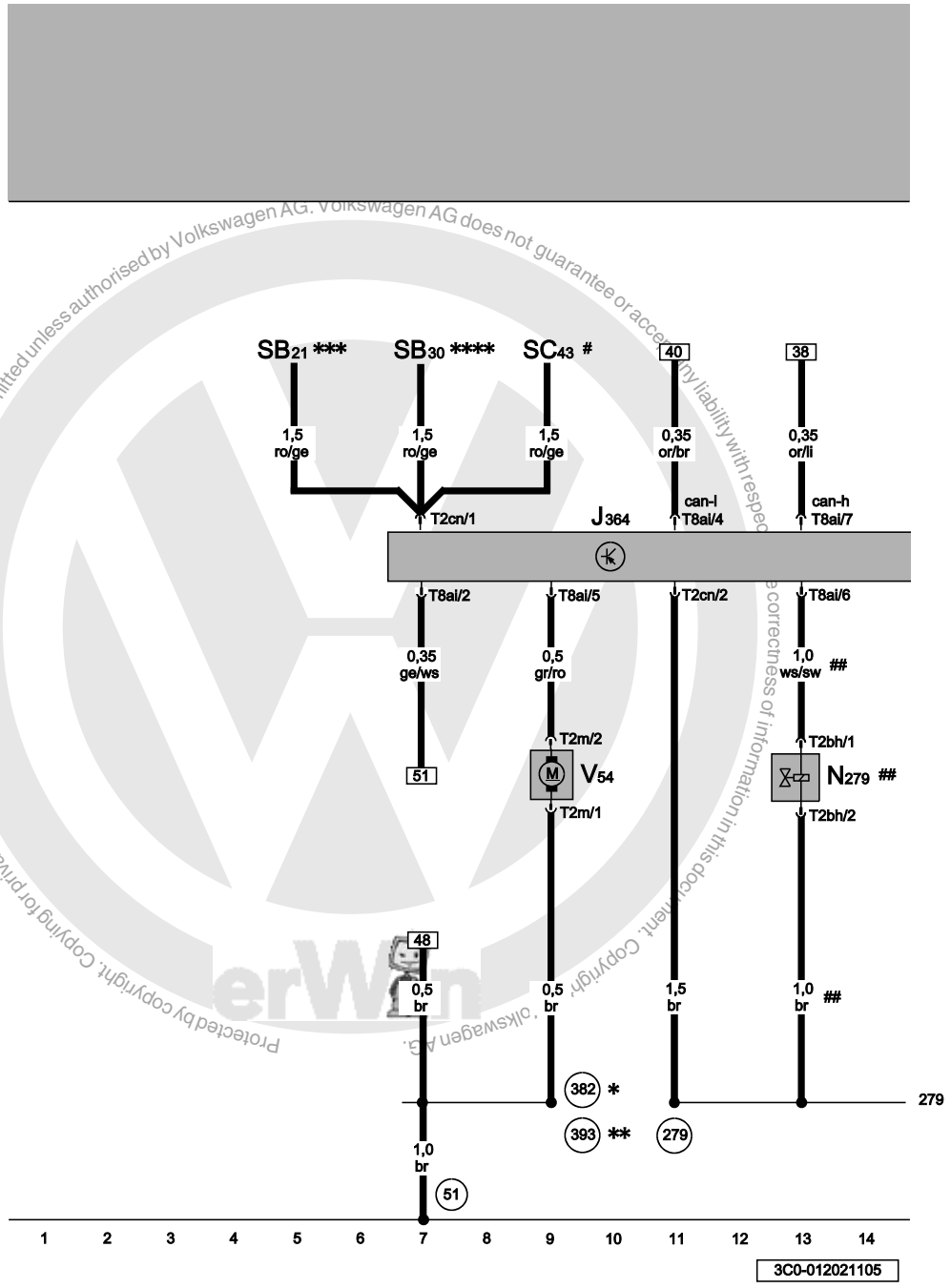
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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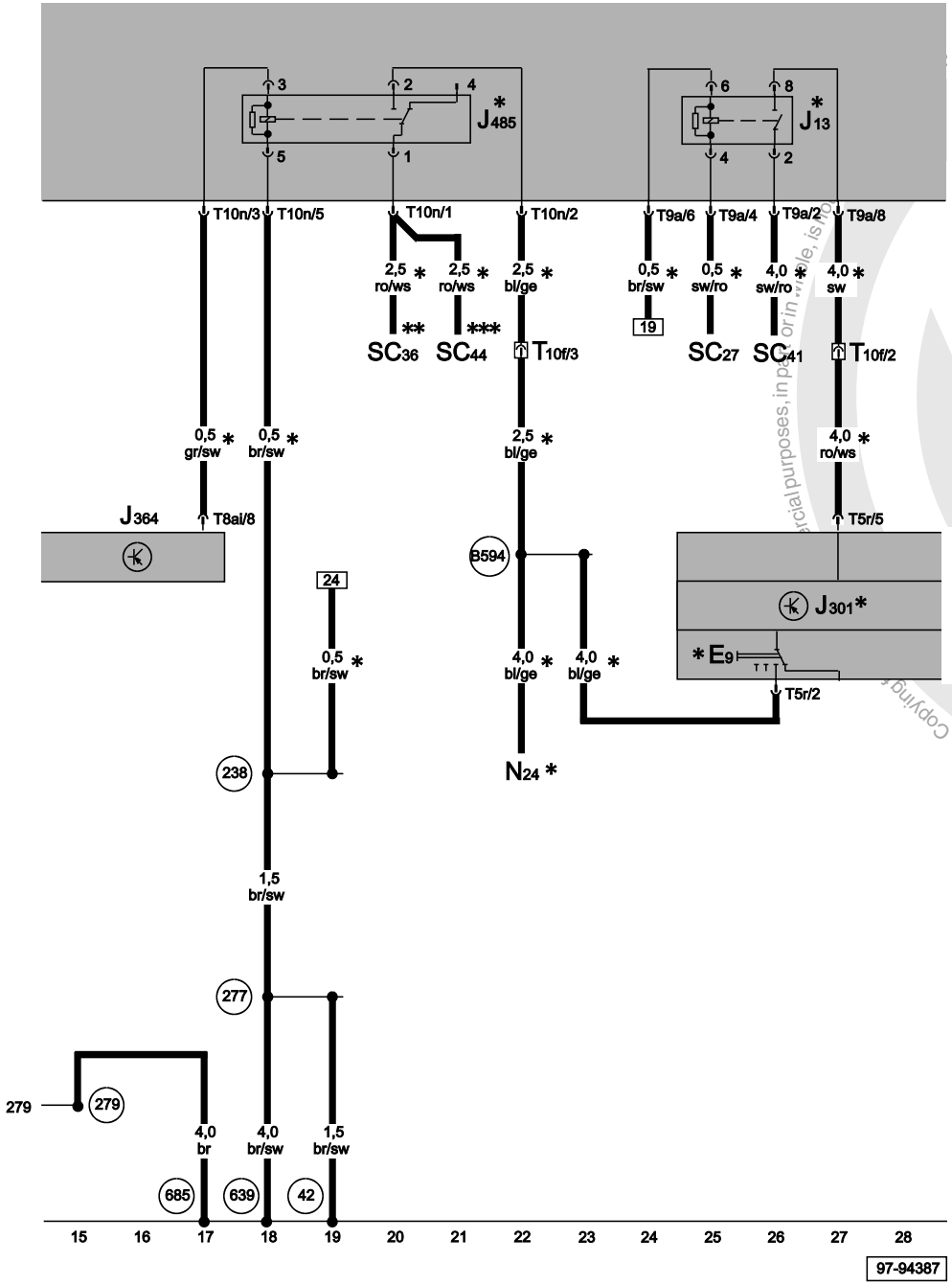


Auxiliary heater control unit, metering pump, isolator valve for heater coolant

J364	Auxiliary heater control unit
N279	Heater coolant shut-off valve
SB21	Fuse 21 on fuse holder B
SB30	Fuse 30 on fuse holder B
SC17	Fuse 17 on fuse holder C
SC43	Fuse 43 on fuse holder C
T2m	2-pin connector, black, on fuel tank
T2bh	2-pin connector
T2cn	2-pin connector
T8ai	8-pin connector
V54	Metering pump
51	Earth point, on right in luggage compartment
279	Earth connection 5, in interior wiring harness
382	Earth connection 17, in main wiring harness
393	Earth connection 28, in main wiring harness
*	Only saloon
**	Only Variant
***	Only on vehicles with E-box Low
****	Only on vehicles with E-box High and front battery
#	Only on vehicles with E-box High and rear battery
##	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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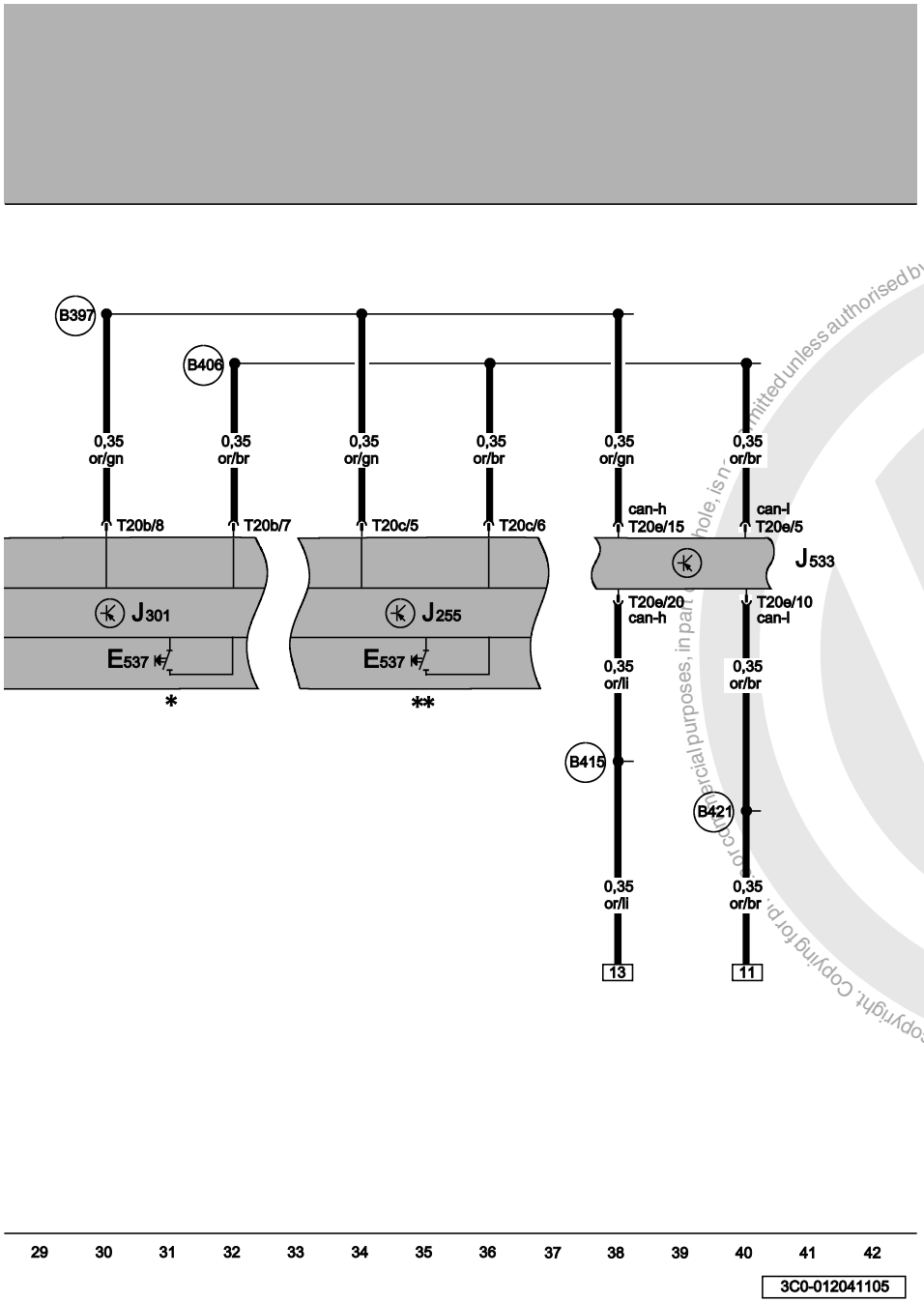


Auxiliary heater control unit, fresh air blower relay, auxiliary heater operation relay

E9	Fresh air blower switch
J13	Fresh air blower relay
J301	Air conditioning system control unit
J364	Auxiliary heater control unit
J485	Auxiliary heater operation relay
N24	Fresh air blower series resistor with overheating fuse
SC27	Fuse 27 on fuse holder C
SC36	Fuse 36 on fuse holder C
SC41	Fuse 41 on fuse holder C
SC44	Fuse 44 on fuse holder C
T5r	5-pin connector
T8ai	8-pin connector
T9a	9-pin connector
T10f	10-pin connector, coupling point climatic box
T10n	10-pin connector, on E-box
42	Earth point, next to steering column
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
279	Earth connection 5, in interior wiring harness
639	Earth point, left A-pillar
685	Earth point 1 at front of right longitudinal member
B594	Connection 1, Climatic wiring harness
*	Only on vehicles with Climatic
**	Only on vehicles with no second battery
***	Only on vehicles with second battery

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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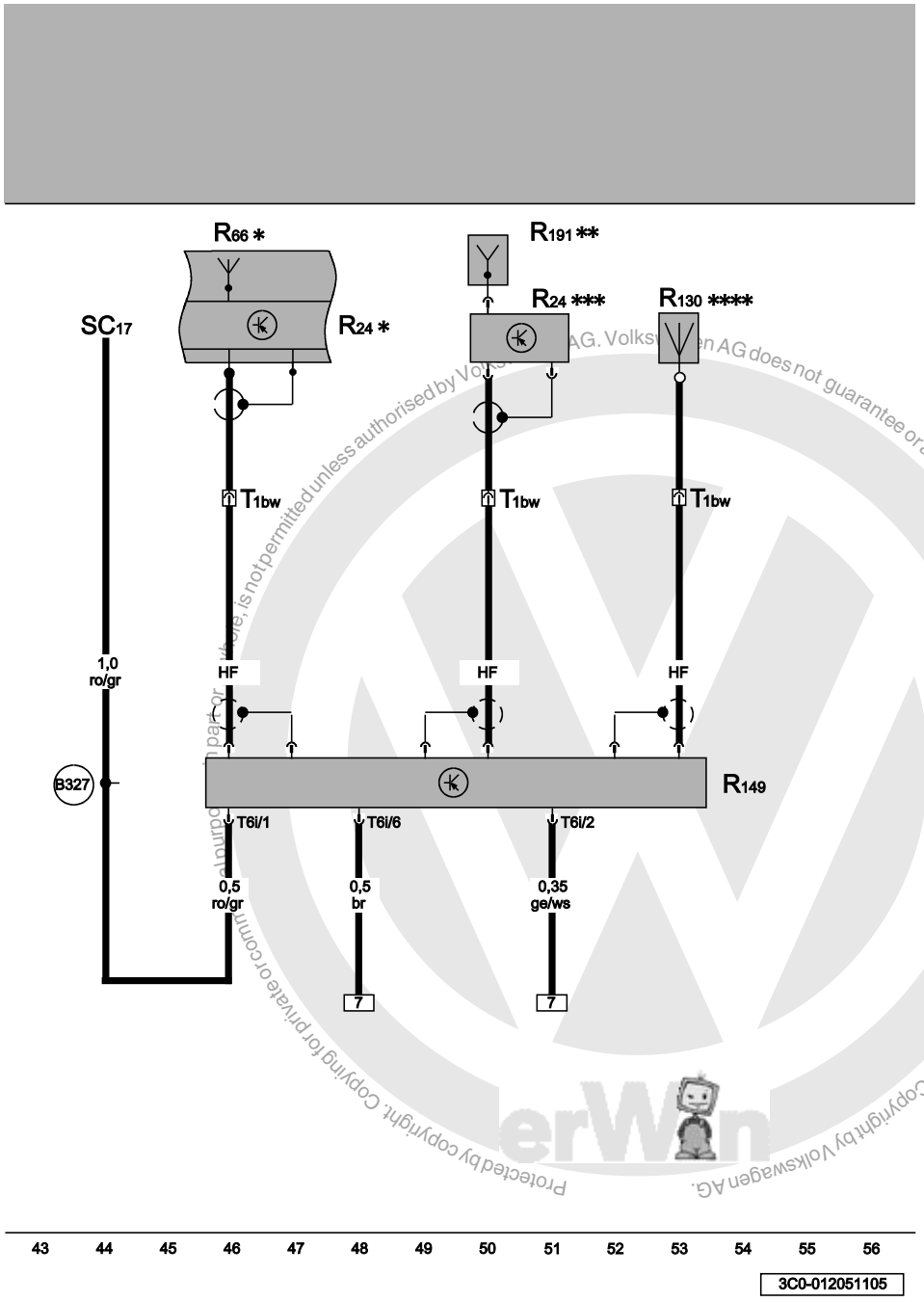


Air conditioning system control unit, data bus diagnosis interface, immediate heat button

E537	Instant heating button
J255	Climatronic control unit
J301	Air conditioning system control unit
J533	Data bus diagnosis interface
T20b	20-pin connector
T20c	20-pin connector
T20e	20-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only on vehicles with Climatic
**	Only vehicles with Climatronic

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Radio remote receiver for auxiliary coolant heater, aerial for auxiliary heater

R24	Aerial amplifier
R66	Aerial for telephone, navigation system and auxiliary heater
R130	Rear window aerial 1
R149	Radio receiver for auxiliary coolant heater, on right in luggage compartment
R191	Side window aerial
SC17	Fuse 17 on fuse holder C
T1bw	Single connector
T6i	6-pin connector
B327	Connection 13 (30a), in main wiring harness
*	Only estate models with roof aerial
**	Only estate models with left side window aerial
***	in D-pillar on left
****	Only on saloon models

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Electrically operated seat backrest and lumbar support

⇒ **Driver side**
⇒ **Front passenger side**
From November 2004

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

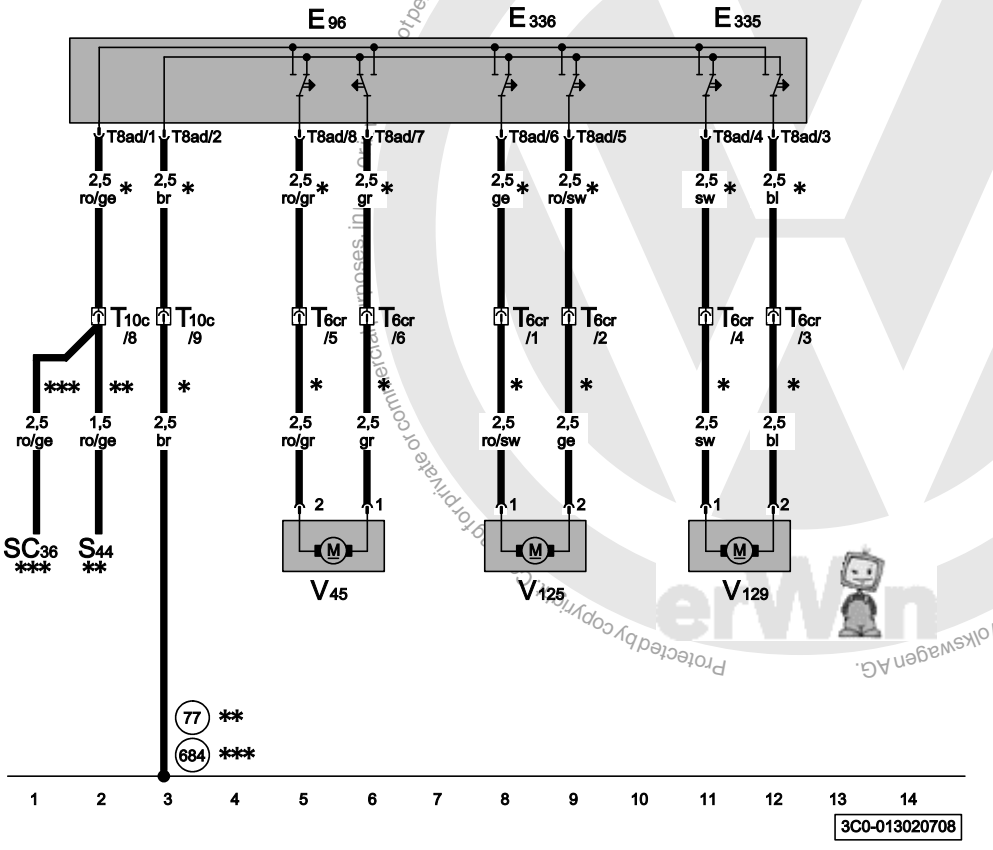
⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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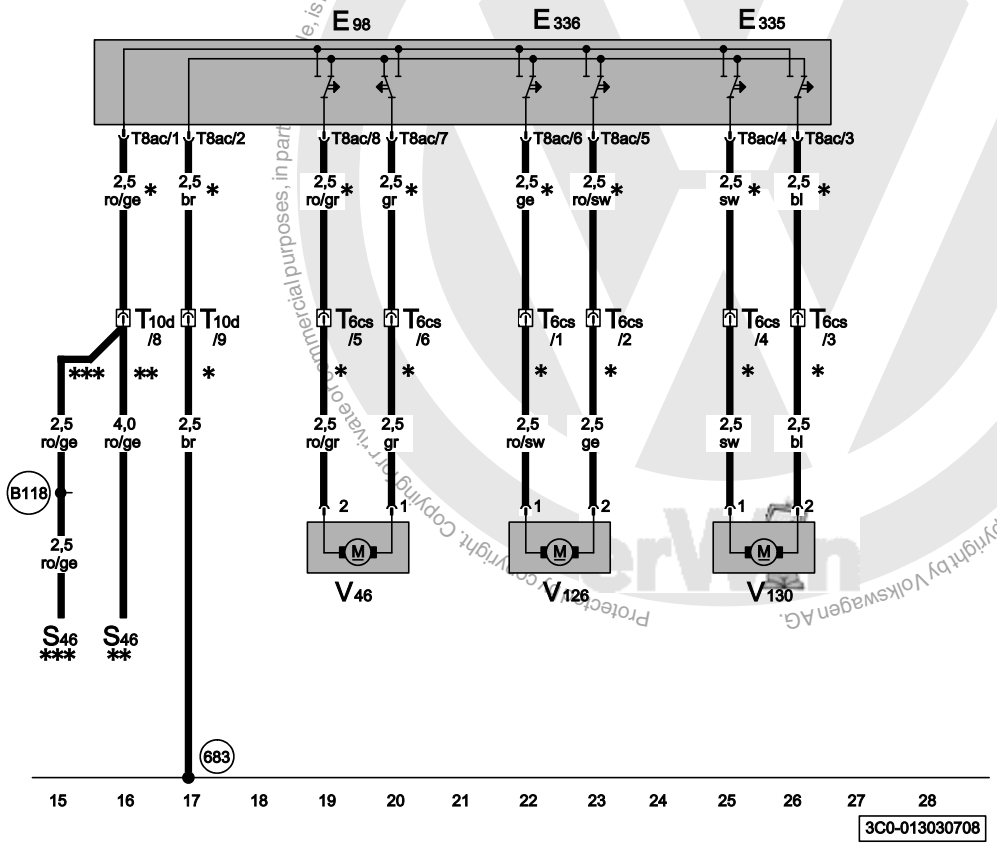
Driver seat backrest adjustment switch, lumbar support height adjustment button, lumbar support longitudinal adjustment button

E96	Driver seat backrest adjustment switch
E335	Lumbar support height adjustment button
E336	Lumbar support longitudinal adjustment button
S44	Driver seat adjustment thermal fuse 1
SC36	Fuse 36 on fuse holder C
T6cr	6-pin connector, black, in seat
T8ad	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
V45	Driver seat backrest adjustment motor
V125	Driver seat lumbar support longitudinal adjustment motor
V129	Driver seat lumbar support height adjustment motor
(77)	Earth point, lower part of left B-pillar
(684)	Earth point, on front of left side member
*	Cross-section 1.5 possible
**	Applicable to April 2008
***	Applicable from May 2008



ws	=	white
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br	=	brown
gn	=	green
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bl = blue
gr = grey
li = purple
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rs = pink

Front passenger seat backrest adjustment switch, lumbar support height adjustment button, lumbar support longitudinal adjustment button

E98	Front passenger seat backrest adjustment switch
E335	Lumbar support height adjustment button
E336	Lumbar support longitudinal adjustment button
S46	Front passenger seat adjustment thermal fuse 1
T6cs	6-pin connector, black, in seat
T8ac	8-pin connector
T10d	10-pin connector, black, coupling point front passenger side, under seat
V46	Front passenger seat backrest adjustment motor
V126	Front passenger seat lumbar support longitudinal adjustment motor
V130	Front passenger seat lumbar support height adjustment motor
(683)	Earth point on front of right side member
(B118)	Connection (driver side seat adjustment), in interior wiring harness
*	Cross-section 1.5 possible
**	Applicable to April 2008
***	Applicable from May 2008

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Seat adjustment with memory function, driver side

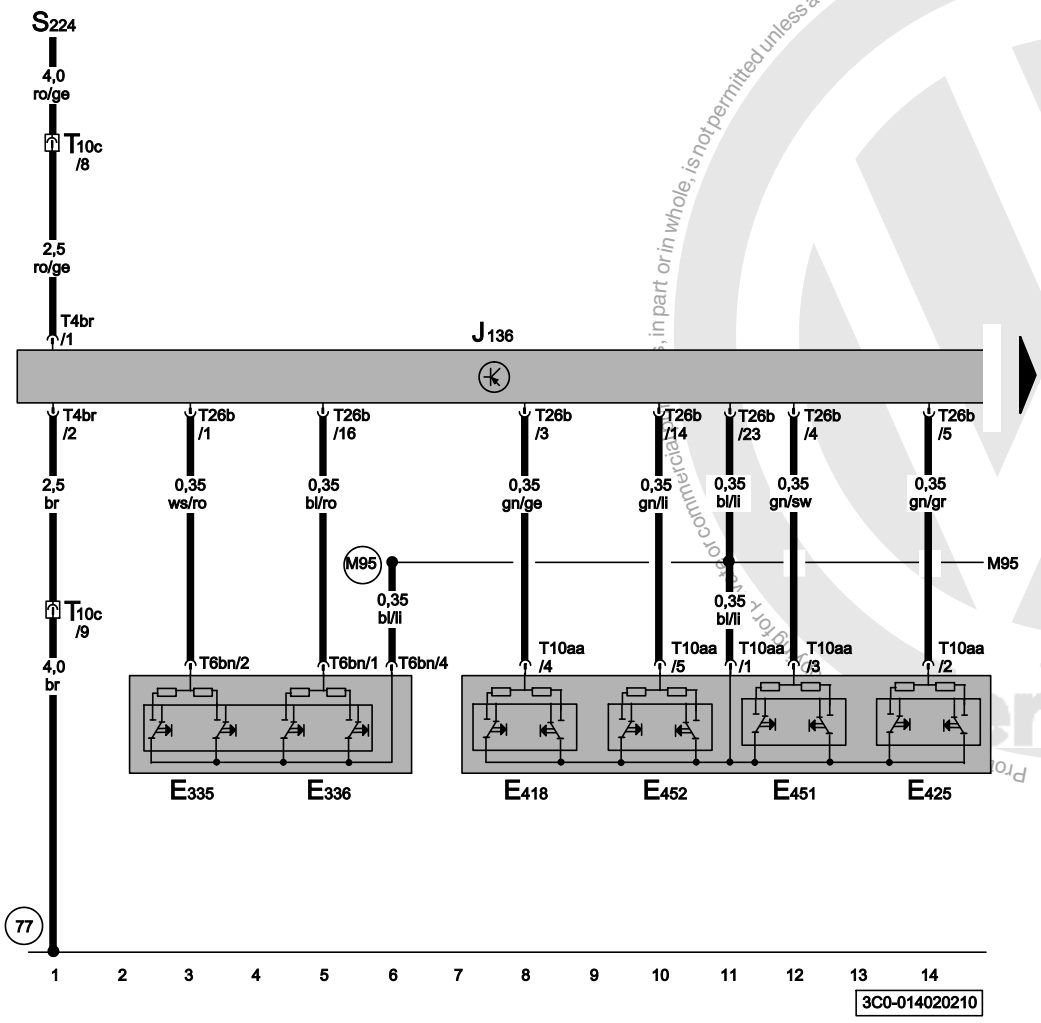
⇒ **Seat adjustment, electrical, front passenger side**
⇒ **Massage function**
From November 2004

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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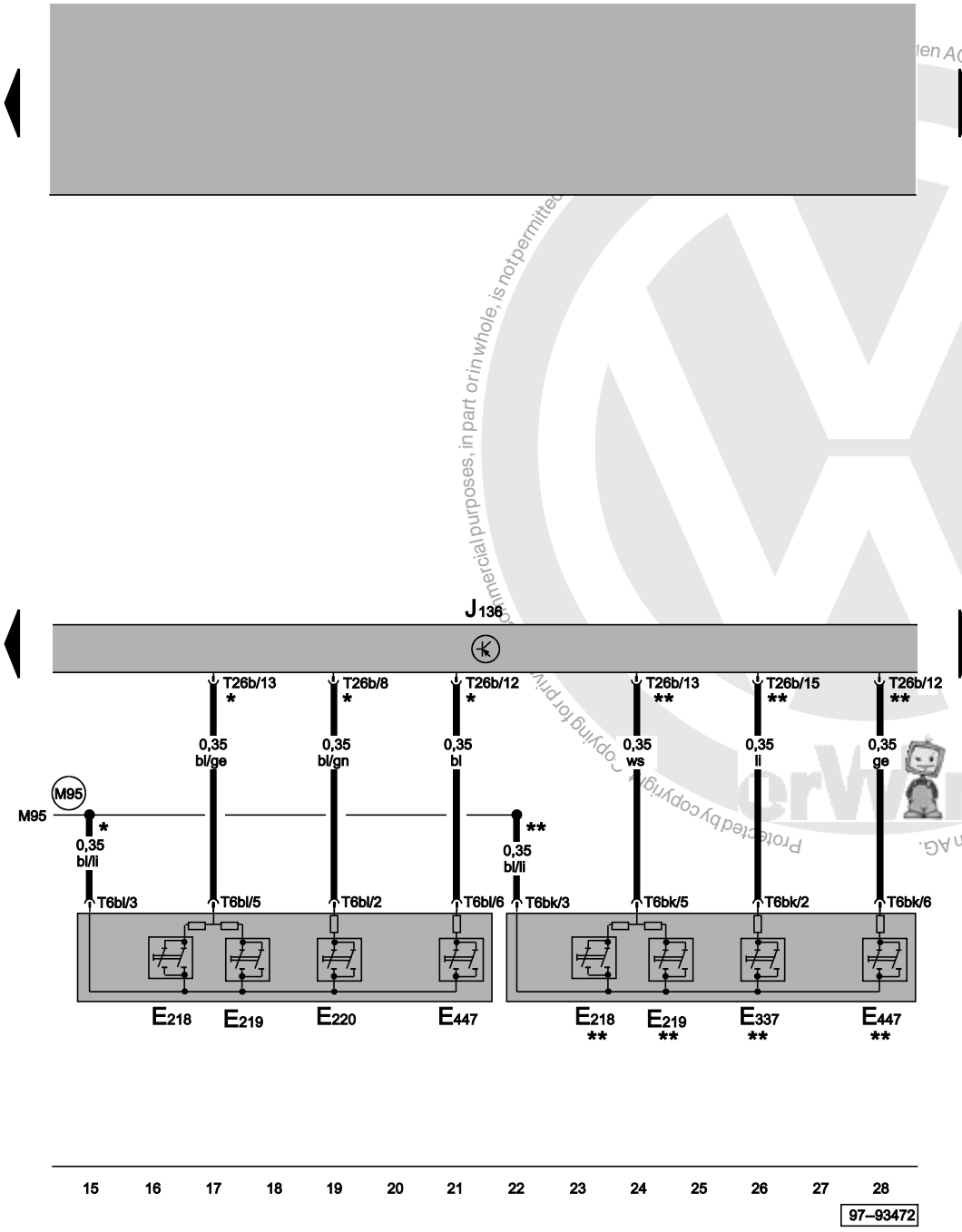


Control unit for seat adjustment and steering column adjustment with memory function, driver seat adjustment operating unit

E335	Lumbar support height adjustment button
E336	Lumbar support longitudinal adjustment button
E418	Seat longitudinal adjustment button
E425	Backrest adjustment button
E451	Seat front height adjustment button
E452	Seat rear height adjustment button
J136	Seat and steering column adjustment control unit with memory
S224	Fuse in fuse holder on left under dash panel
T4br	4-pin connector, black
T6bn	6-pin connector, blue
T10aa	10-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
T26b	26-pin connector, white
77	Earth point, lower part of left B-pillar
M95	Connection 3, seat adjustment wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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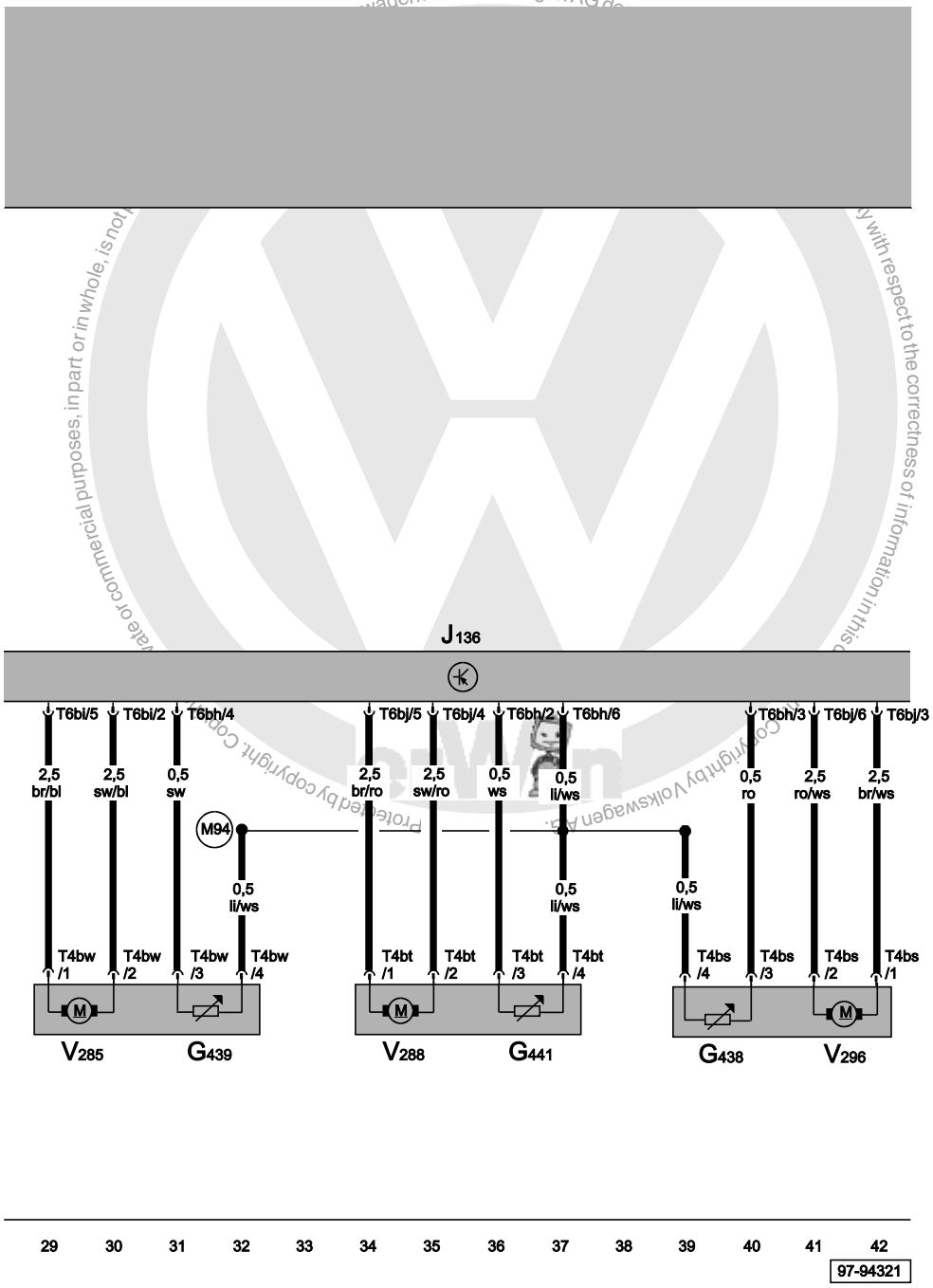


Seat and steering column adjustment control unit with memory, seat memory position button 1-3

E218	Seat memory position button 1
E219	Seat memory position button 2
E220	Seat memory position button 3
E337	Massage function button
E447	Seat position memory button
J136	Seat and steering column adjustment control unit with memory
T6bl	6-pin connector, black
T6bk	6-pin connector, black
T26b	26-pin connector, white
M95	Connection 3, seat adjustment wiring harness
*	Only seats with no massage function
**	Only seats with massage function

ws	=	white
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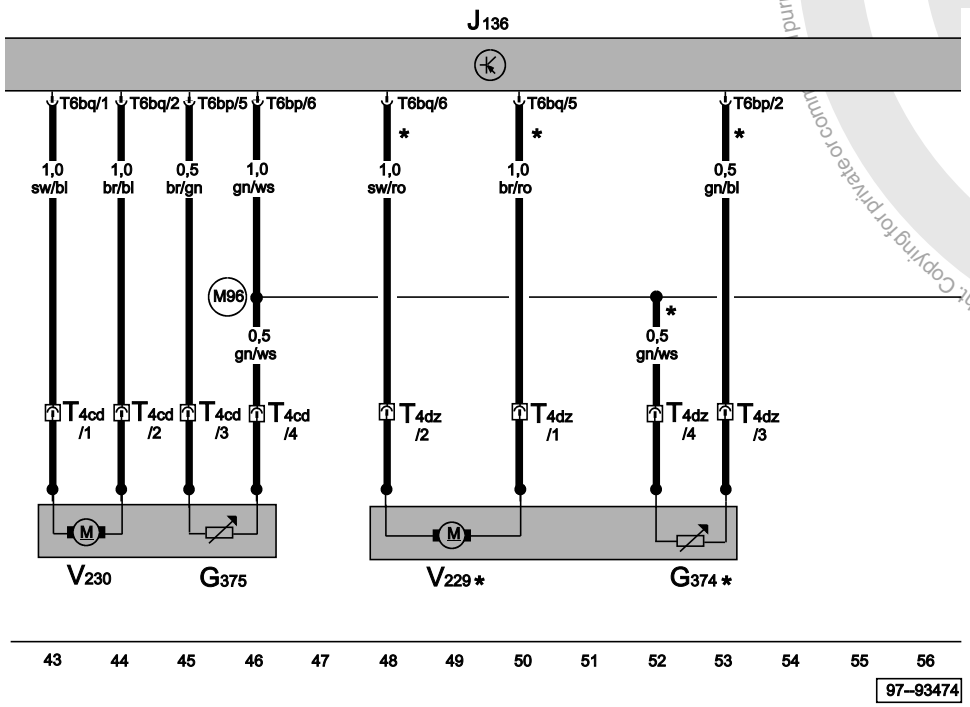
Seat and steering column adjustment control unit with memory, seat height adjustment sender

G438	Seat front height adjustment sender
G439	Seat rear height adjustment sender
G441	Seat longitudinal adjustment sender
J136	Seat and steering column adjustment control unit with memory
T4bs	4-pin connector, black
T4bt	4-pin connector, black
T4bw	4-pin connector, black
T6bh	6-pin connector, brown
T6bi	6-pin connector, blue
T6bj	6-pin connector, black
V285	Seat rear height adjustment motor
V288	Seat longitudinal adjustment motor
V296	Seat front height adjustment motor
M94	Connection 2, seat adjustment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

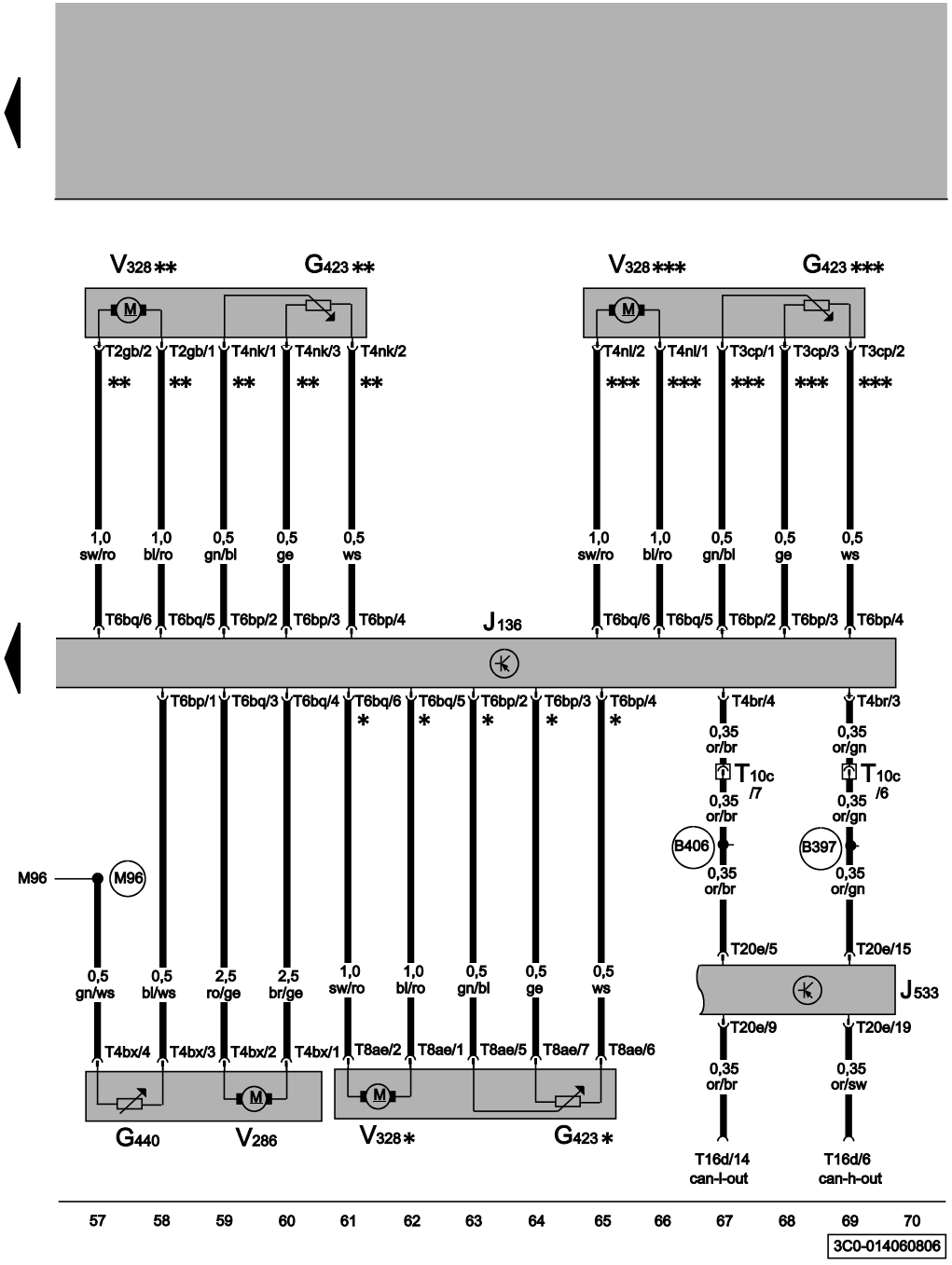
Seat and steering column adjustment control unit with memory, lumbar support adjustment operating unit

G374	Lumbar support height adjustment sender
G375	Lumbar support longitudinal adjustment sender
J136	Seat and steering column adjustment control unit with memory
T4cd	4-pin connector, black
T4dz	4-pin connector, black
T6bp	6-pin connector, blue
T6bq	6-pin connector, white
V229	Lumbar support height adjustment motor
V230	Lumbar support longitudinal adjustment motor
M96	Connection 4, seat adjustment wiring harness
*	Only seats with no massage function



ws	=	white
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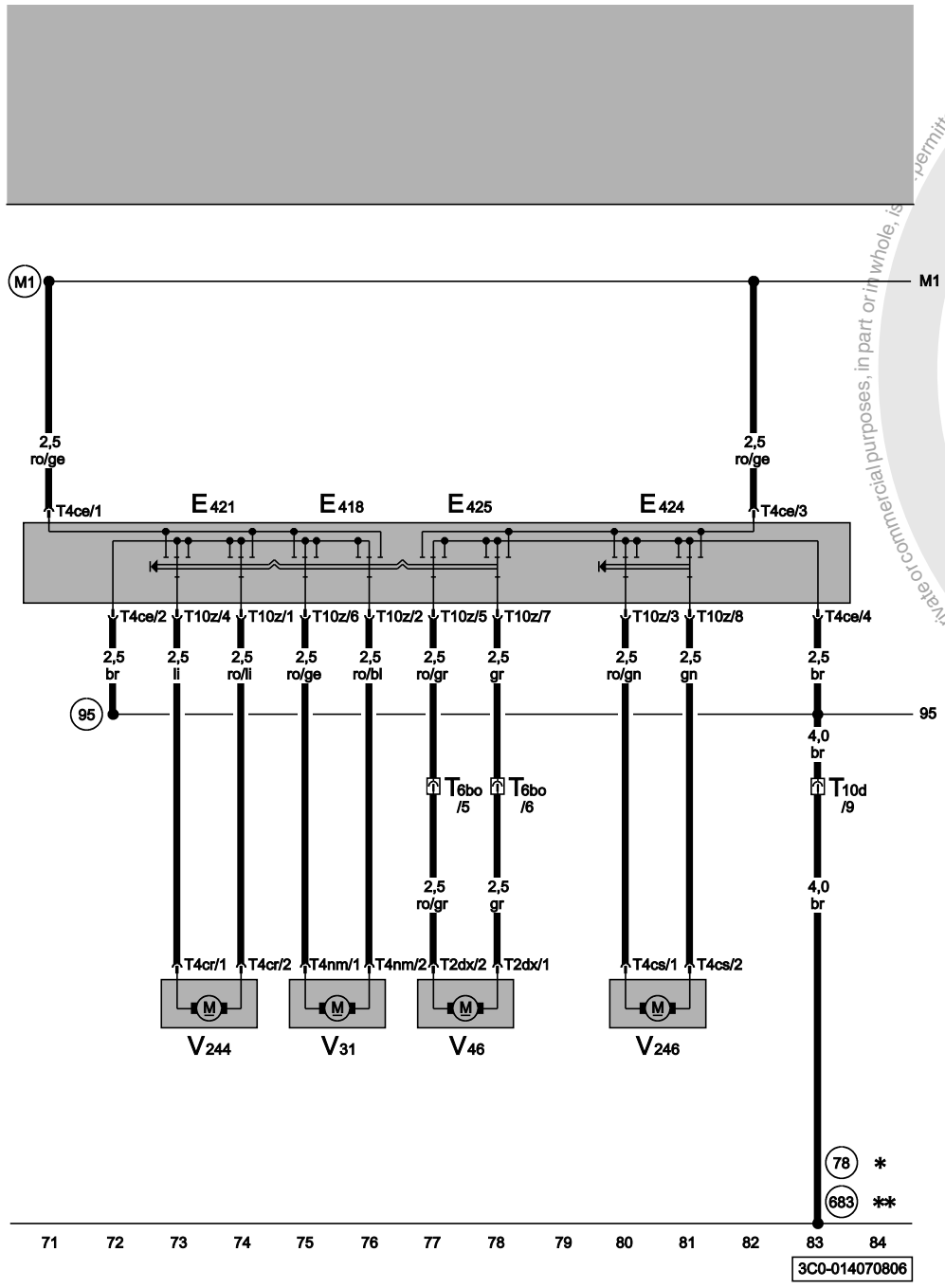


Seat and steering column adjustment control unit with memory, data bus diagnostic interface, self-diagnosis connection

G423	Potentiometer for height adjustment of lumbar support with massage function
G440	Backrest adjustment sender
J136	Seat and steering column adjustment control unit with memory
J533	Data bus diagnosis interface
T2gb	2-pin connector, black, in seat
T3cp	3-pin connector, black, in seat
T4br	4-pin connector, black
T4bx	4-pin connector, black
T4nk	4-pin connector, black, in seat
T4nl	4-pin connector, black, in seat
T6bp	6-pin connector, blue
T6bq	6-pin connector, white
T8ae	8-pin connector, black, in seat
T10c	10-pin connector, black, coupling point driver side, under seat
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
V286	Backrest adjustment motor
V328	Lumbar support massage function pump
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
M96	Connection 4, seat adjustment wiring harness
*	Only seat with massage function, applicable to April 2005
**	Only seat with massage function, applicable from May 2005 to April 2006
***	Only seat with massage function, applicable from May 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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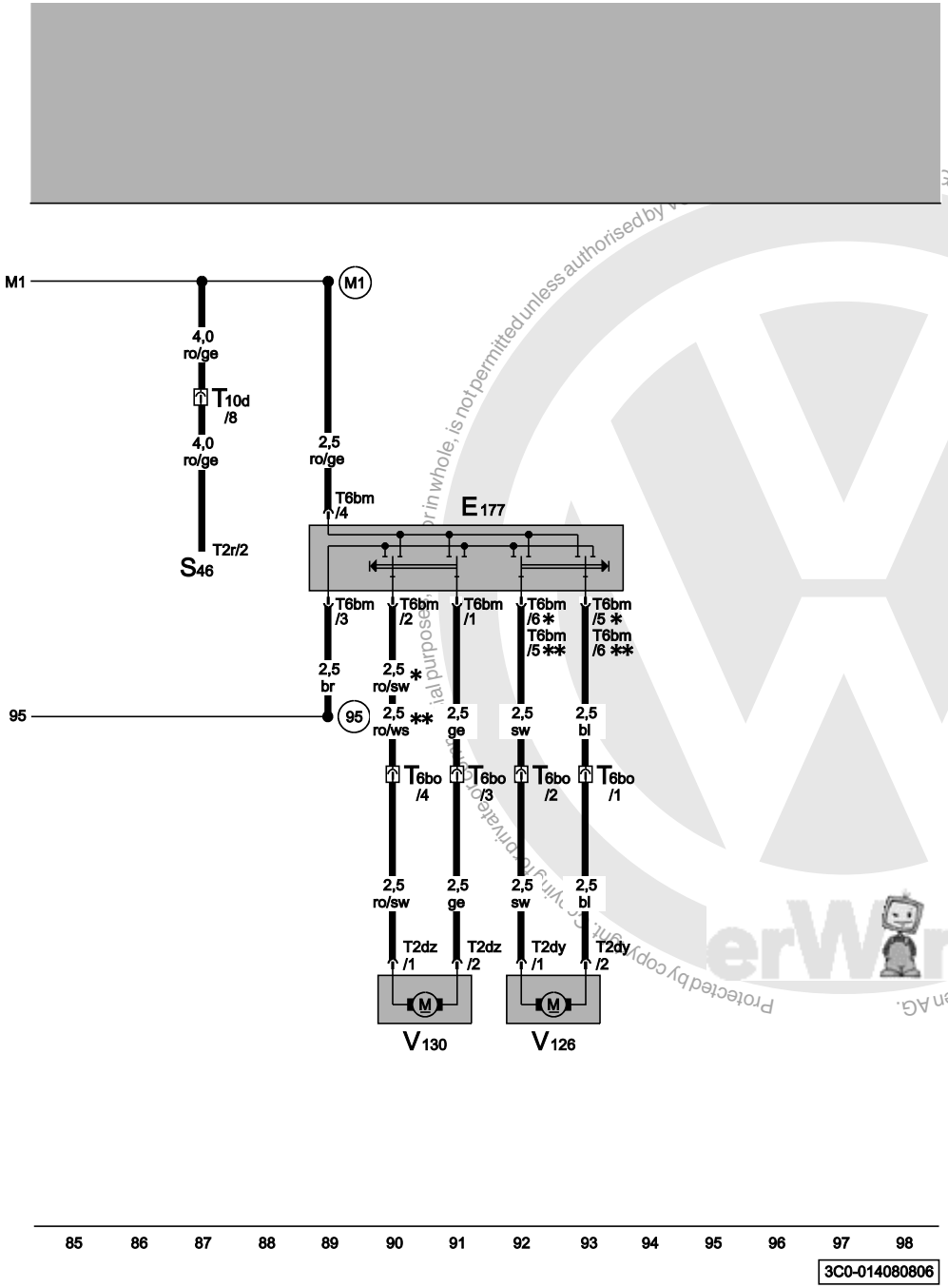


Longitudinal adjustment for front passenger seat, height adjustment for front passenger seat, backrest adjustment for front passenger seat, tilt angle adjustment

E418	Seat longitudinal adjustment button
E421	Rake adjustment button
E424	Seat height adjustment button
E425	Backrest adjustment button
T2dx	2-pin connector
T4ce	4-pin connector
T4cr	4-pin connector
T4cs	4-pin connector
T4nm	4-pin connector, black
T6bo	6-pin connector
T10d	10-pin connector, black, coupling point front passenger side, under seat
T10z	10-pin connector
V31	Front passenger seat longitudinal adjustment motor
V46	Front passenger seat backrest adjustment motor
V244	Front passenger seat rake adjustment motor
V246	Front passenger seat height adjustment motor
78	Earth point, lower part of right B-pillar
95	Earth connection 1, in seat adjustment wiring harness
683	Earth point on front of right side member
M1	Positive connection 1 (30), in seat adjustment wiring harness
*	Applicable to April 2005
**	Valid from May 2005

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Front passenger seat lumbar support adjustment switch

E177	Front passenger seat lumbar support adjustment switch
S46	Front passenger seat adjustment thermal fuse 1
T2r	2-pin connector
T2dy	2-pin connector
T2dz	2-pin connector
T6bm	6-pin connector
T6bo	6-pin connector
T10d	10-pin connector, black, coupling point front passenger side, under seat
V126	Front passenger seat lumbar support longitudinal adjustment motor
V130	Front passenger seat lumbar support height adjustment motor
95	Earth connection 1, in seat adjustment wiring harness
M1	Positive connection 1 (30), in seat adjustment wiring harness
*	Applicable to April 2005
**	Valid from May 2005

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Fuse concept, 1 battery

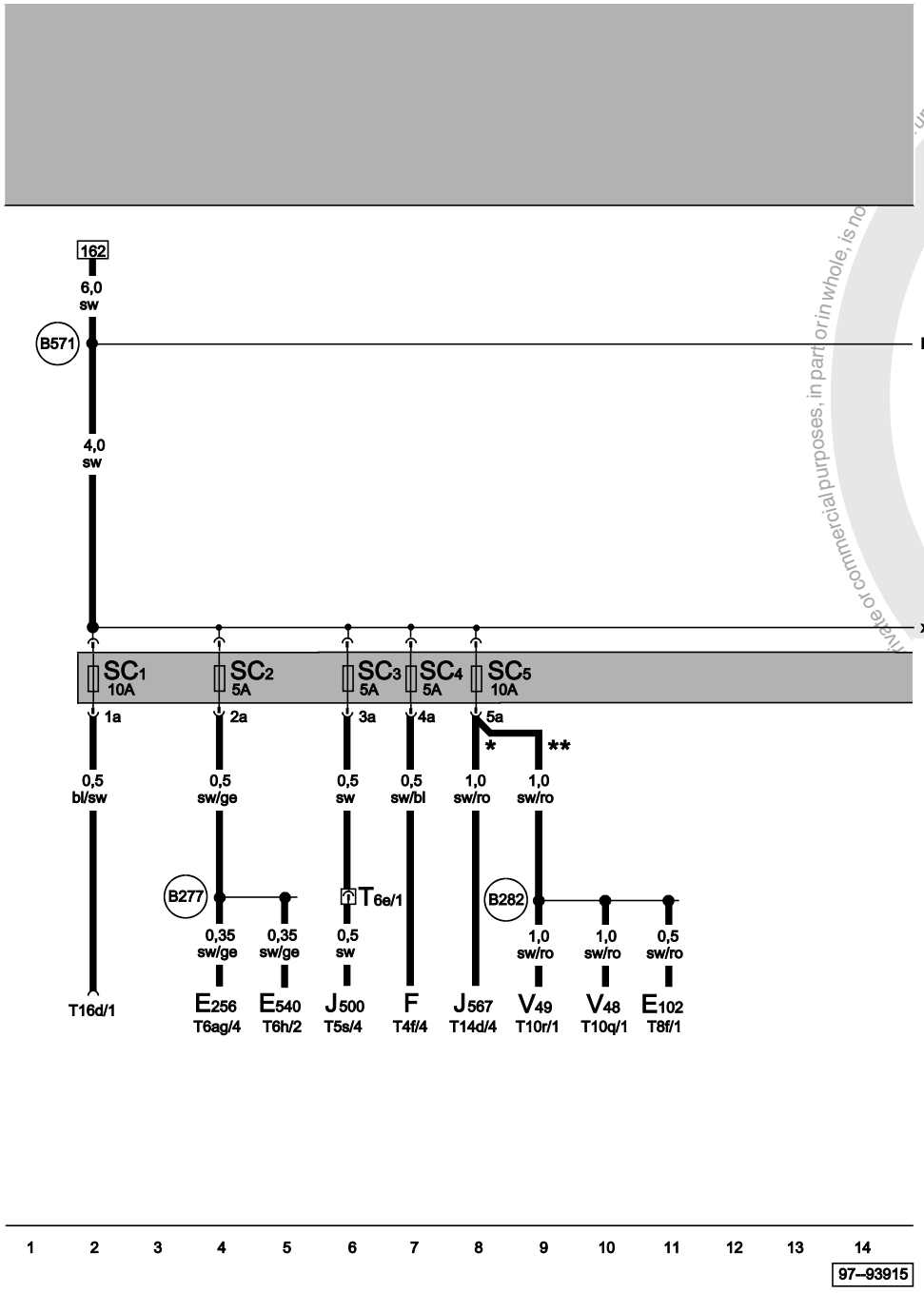
⇒ **Fuses SC, on left in dash panel**
⇒ **Fuses SD, on right in dash panel**
From November 2004

Notes:
For information about
- Relay and fuse assignments
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information about
- Fault Finding Programs

⇒ Guided Fault Finding

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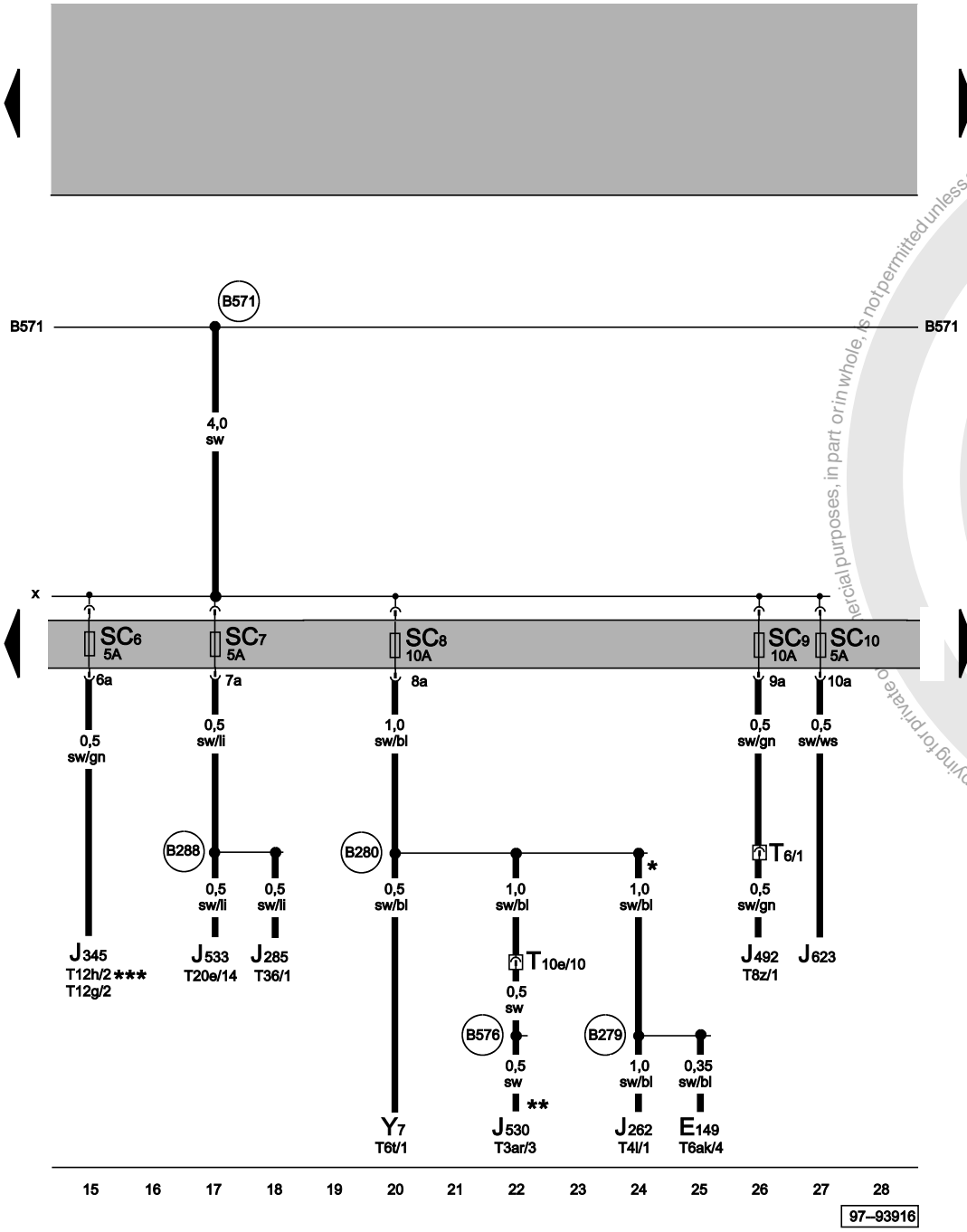


Fuses, self-diagnosis connection

E102	Headlight range control regulator
E256	TCS and ESP button
E540	auto-hold button
F	Brake light switch
J500	Power steering control unit
J567	Left headlight range control unit
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
SC3	Fuse 3 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC5	Fuse 5 on fuse holder C
T4f	4-pin connector
T5s	5-pin connector
T6e	6-pin connector, black
T6h	6-pin connector
T6ag	6-pin connector
T8f	8-pin connector
T10q	10-pin connector
T10r	10-pin connector
T14d	14-pin connector
T16d	16-pin connector, self-diagnosis connection
V48	Left headlight range control motor
V49	Right headlight range control motor
B277	Positive connection 1 (15a), in main wiring harness
B282	Positive connection 6 (15a), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only on vehicles with dynamic headlight range control and automatic driving light control
**	Only on vehicles with headlight range control

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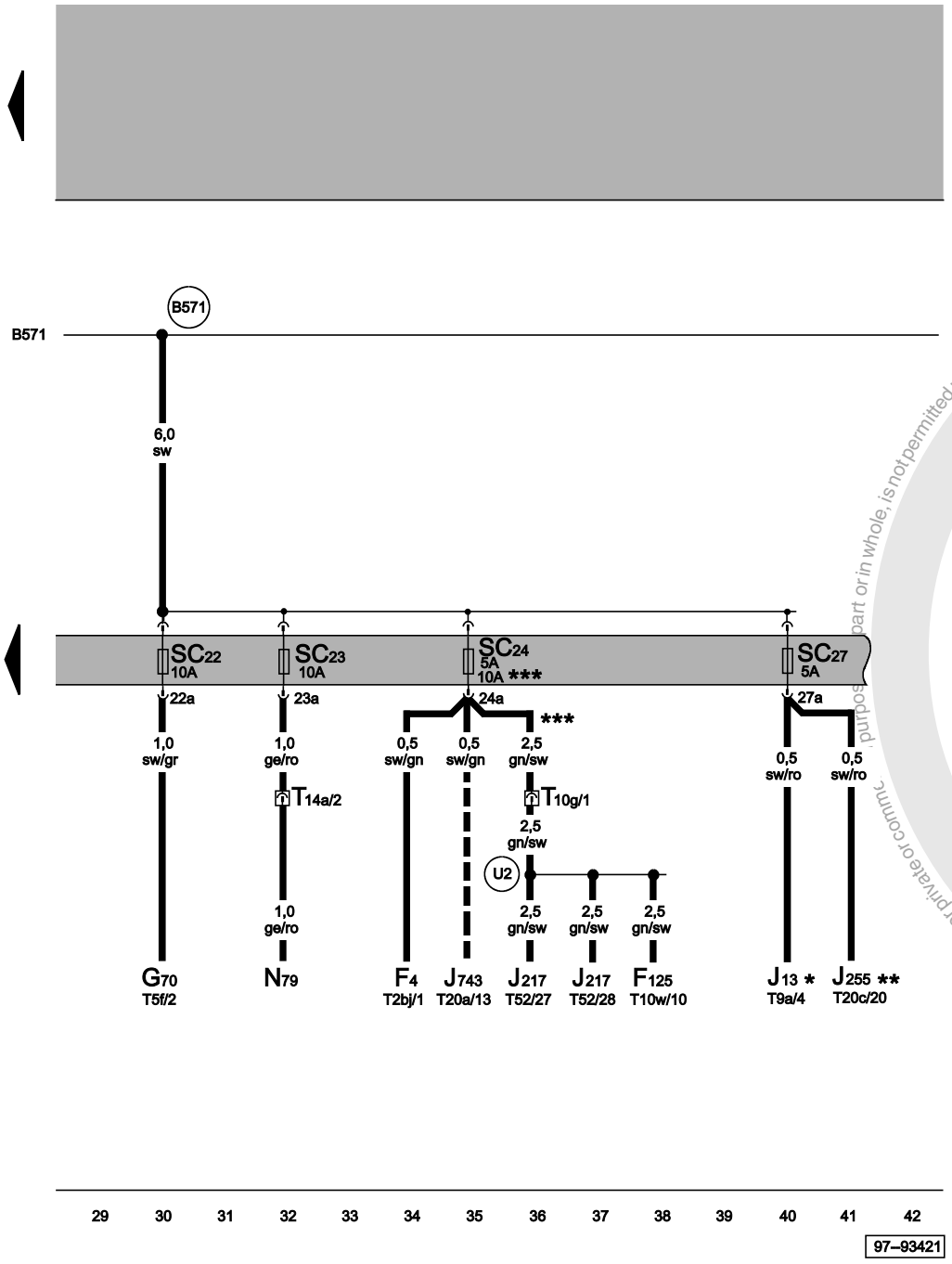


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Fuses

E149	Rear roller blind switch
J262	Rear roller blind control unit
J285	Control unit in dash panel insert
J345	Trailer detector control unit
J492	Four-wheel drive control unit
J530	Garage door operation control unit
J533	Data bus diagnostic interface
J623	Engine control unit
SC6	Fuse 6 on fuse holder C
SC7	Fuse 7 on fuse holder C
SC8	Fuse 8 on fuse holder C
SC9	Fuse 9 on fuse holder C
SC10	Fuse 10 on fuse holder C
T3ar	3-pin connector
T4l	4-pin connector
T6	6-pin connector, black
T6ak	6-pin connector
T6t	6-pin connector
T8z	8-pin connector
T10e	10-pin connector, black, coupling point, roof wiring harness
T12g	12-pin connector, coupling point, trailer connection
T12h	12-pin connector, coupling point, trailer connection
T20e	20-pin connector
T36	36-pin connector
B279	Positive connection 3 (15a), in main wiring harness
B280	Positive connection 4 (15a), in main wiring harness
B288	Positive connection 12 (15a), in main wiring harness
B571	Connection 38, in main wiring harness
B576	Positive connection (15), in roof wiring harness
*	Only on vehicles with rear roller blind
**	Only on vehicles with garage door operation
***	Only on estate

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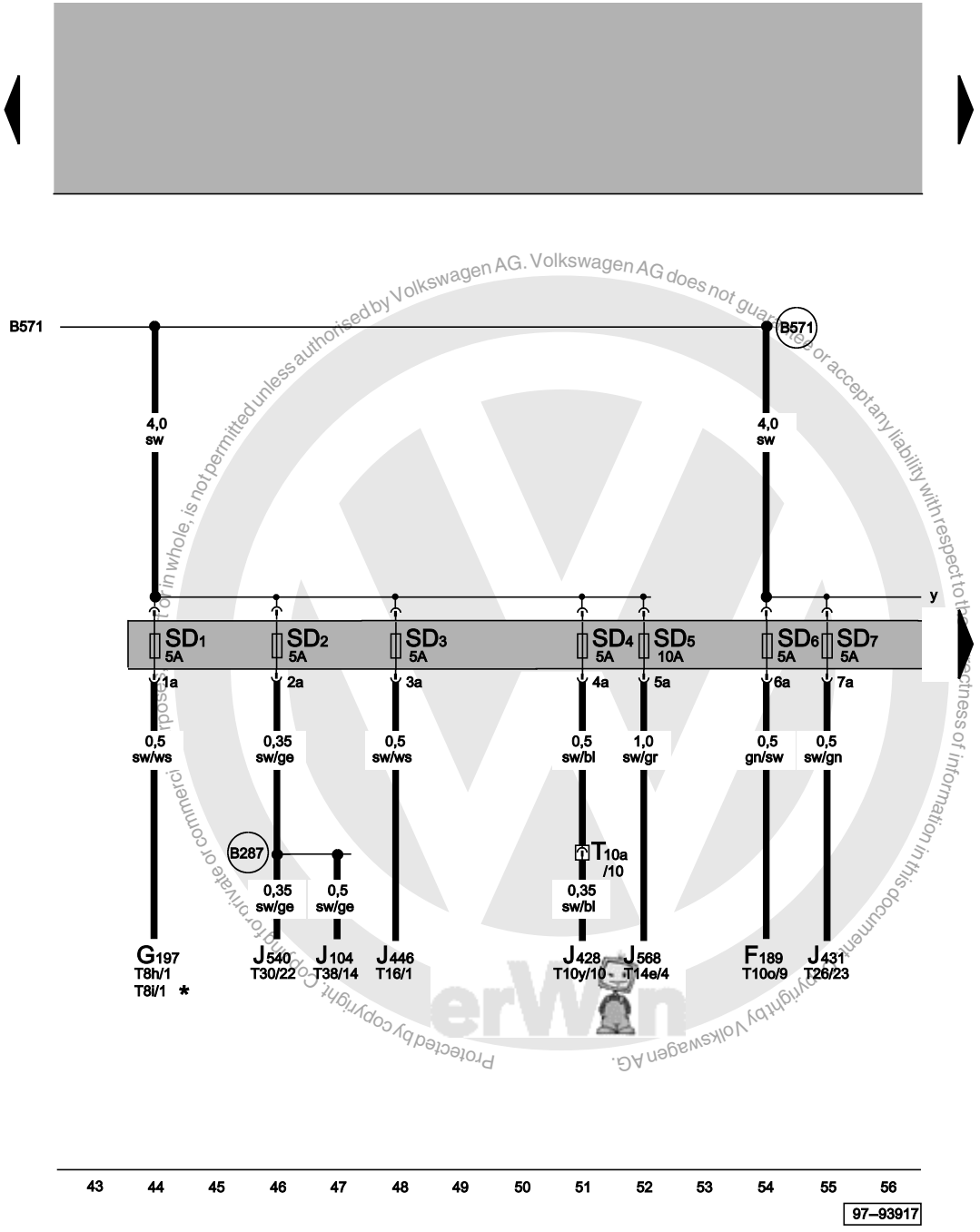


Fuses

F4	Reversing light switch
F125	Multifunction switch
G70	Air mass meter
J13	Fresh air blower relay
J217	Automatic gearbox control unit
J255	Climatronic control unit
J743	Mechatronics for direct shift gearbox
N79	Heater element for crankcase breather
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC24	Fuse 24 on fuse holder C
SC27	Fuse 27 on fuse holder C
T2bj	2-pin connector
T5f	5-pin connector
T9a	9-pin connector
T10g	10-pin connector, coupling point, gearbox prewiring
T10w	10-pin connector, on gearbox
T14a	14-pin connector, coupling point 1, on left in engine compartment
T20a	20-pin connector
T20c	20-pin connector
T52	52-pin connector
B571	Connection 38, in main wiring harness
U2	Connection 1 (15) in automatic gearbox wiring harness
*	Only on vehicles with Climatic and auxiliary heater
**	Only on vehicles with Climatronic without auxiliary heater
***	Only on vehicles with automatic gearbox
---	Only on vehicles with direct shift gearbox

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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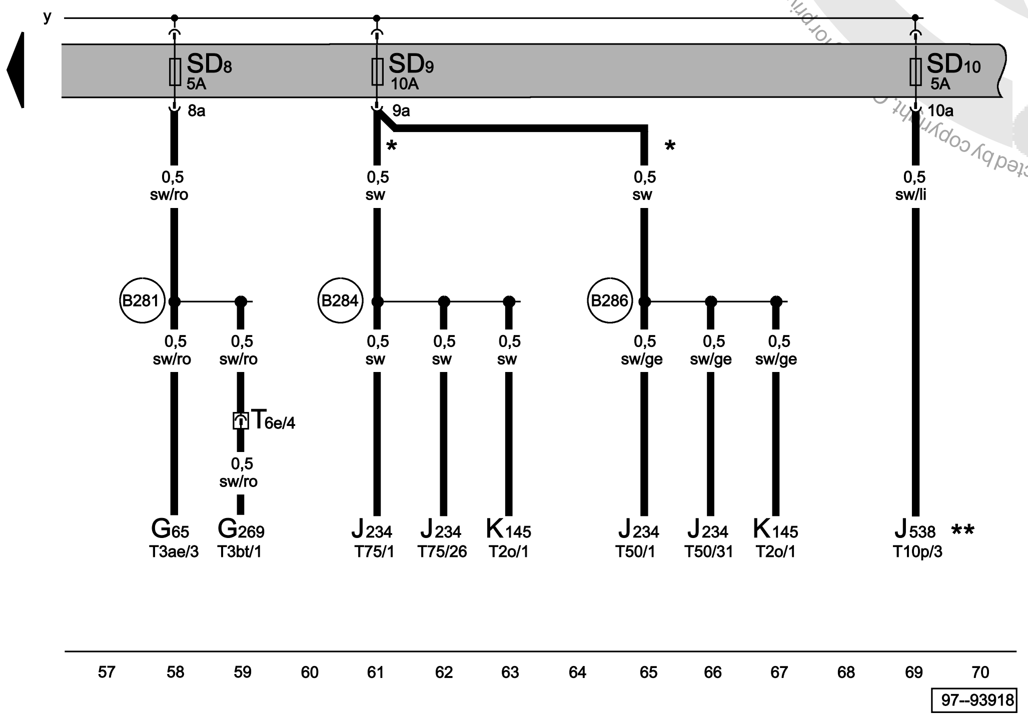


Fuses

F189	Tiptronic switch
G197	Magnetic field sender for compass
J104	ABS control unit
J428	Adaptive cruise control unit
J431	Control unit for headlight range control
J446	Parking aid control unit
J540	Control unit for electromechanical parking brake
J568	Right headlight range control unit
J603	Vehicle position recognition control unit
SD1	Fuse 1 on fuse holder D
SD2	Fuse 2 on fuse holder D
SD3	Fuse 3 on fuse holder D
SD4	Fuse 4 on fuse holder D
SD5	Fuse 5 on fuse holder D
SD6	Fuse 6 on fuse holder D
SD7	Fuse 7 on fuse holder D
T4e	4-pin connector
T8h	8-pin connector
T8i	8-pin connector
T10a	10-pin connector, black
T10o	10-pin connector, on gearbox
T10y	10-pin connector
T14e	14-pin connector
T16	16-pin connector
T26	26-pin connector
T30	30-pin connector
T38	38-pin connector
B287	Positive connection 11 (15a), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only on estate

ws	=	white
sw	=	black
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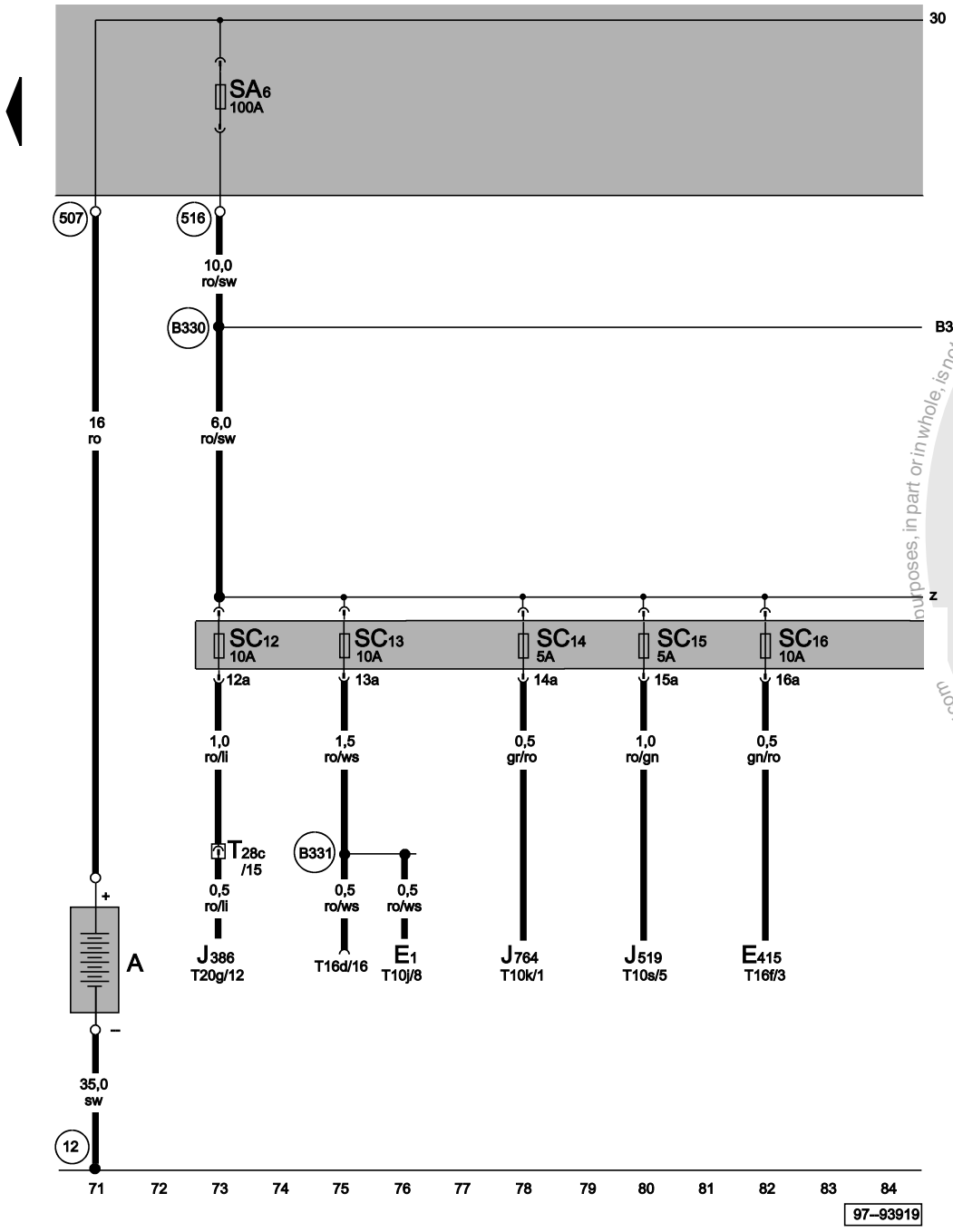


Fuses

G65	High-pressure sender
G269	Steering moment sender
J234	Airbag control unit
J538	Fuel pump control unit
K145	Front passenger side airbag deactivated warning lamp
SD8	Fuse 8 on fuse holder D
SD9	Fuse 9 on fuse holder D
SD10	Fuse 10 on fuse holder D
T2o	2-pin connector
T2p	2-pin connector
T3ae	3-pin connector
T3bt	3-pin connector
T6e	6-pin connector, black
T10p	10-pin connector
T50	50-pin connector
T75	75-pin connector
B281	Positive connection 5 (15a), in main wiring harness
B284	Positive connection 8 (15a), in main wiring harness
B286	Positive connection 10 (15a), in main wiring harness
*	Depends on equipment
**	Only on vehicles with engine codes BLF, BLR, BLY

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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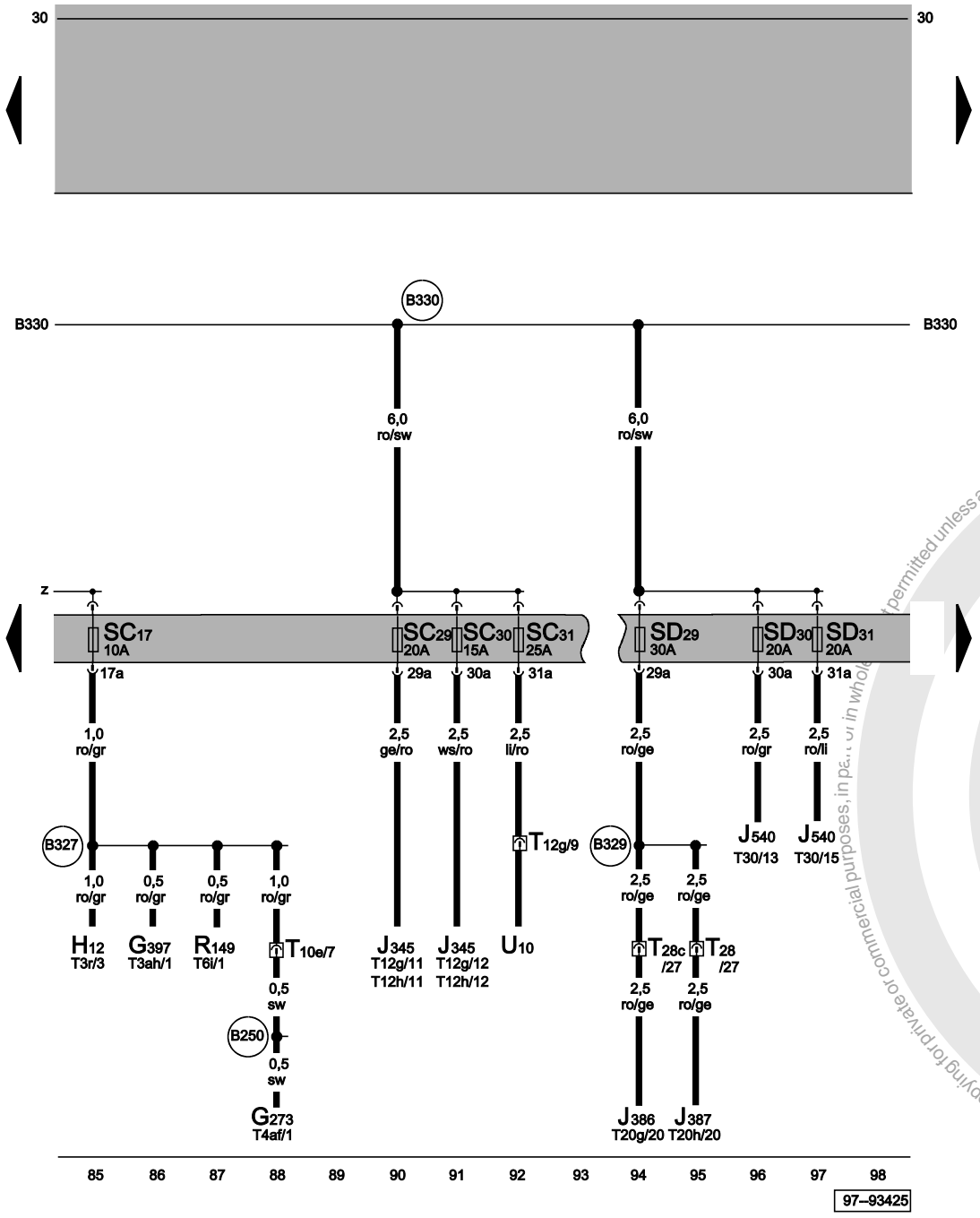


Battery, self-diagnosis connection

A	Battery
E1	Light switch
E415	Entry and start authorisation switch
J386	Driver door control unit
J519	Onboard supply control unit
J764	Electronic steering column lock control unit
SA6	Fuse 6 on fuse holder A
SC12	Fuse 12 on fuse holder C
SC13	Fuse 13 on fuse holder C
SC14	Fuse 14 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC16	Fuse 16 on fuse holder C
T10j	10-pin connector
T10k	10-pin connector
T10s	10-pin connector, black
T16f	16-pin connector
T20g	20-pin connector
T16d	16-pin connector, self-diagnosis connection
T28c	28-pin connector, coupling point, left A-pillar
12	Earth point, on left in engine compartment
507	Threaded connection (30), on fuse holder on battery
516	Threaded connection 6 (30a), on relay plate
B330	Positive connection 16 (30a), in main wiring harness
B331	Positive connection 17 (30a), in main wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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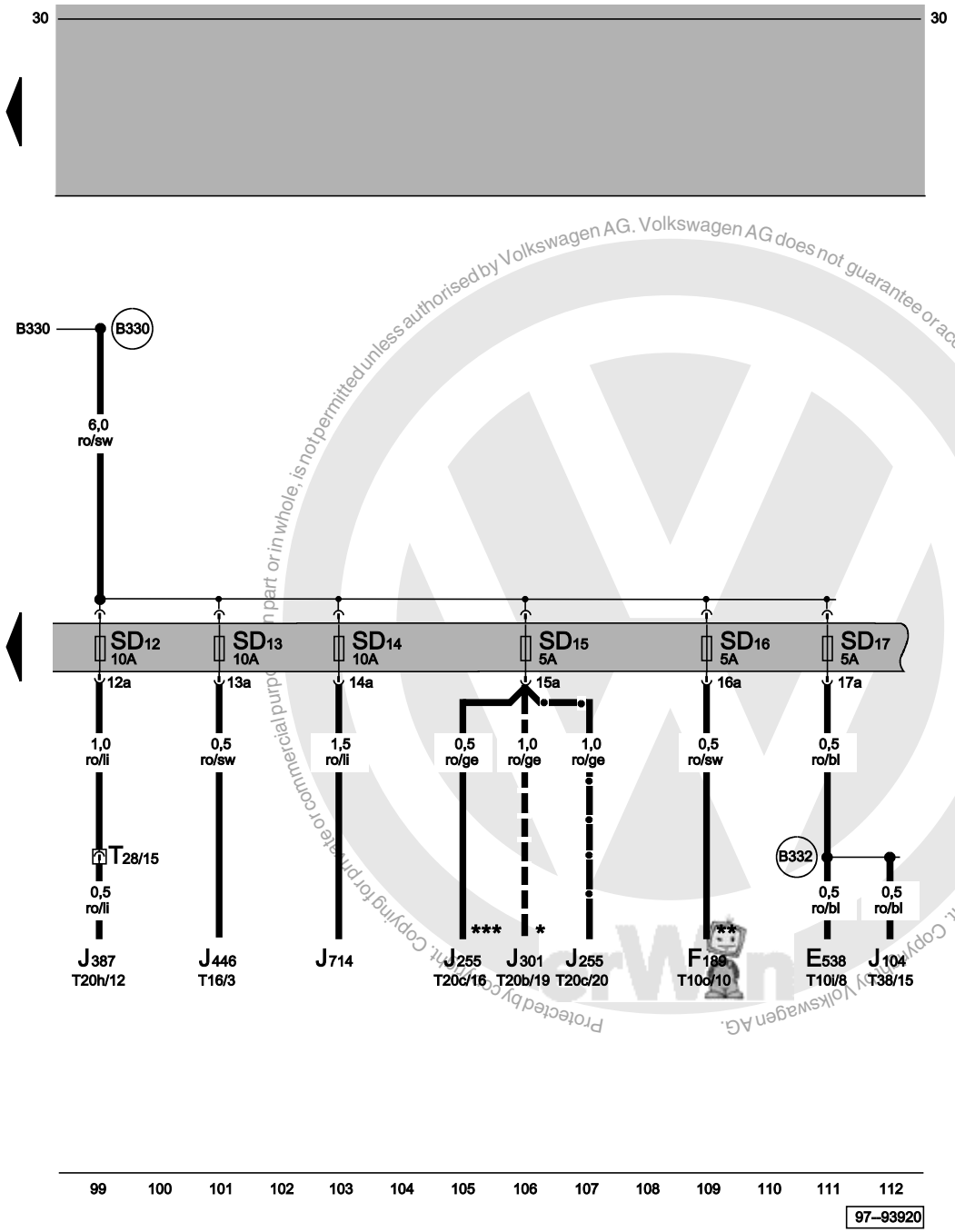


Fuses

G273	Interior monitoring sensor
G397	Rain and light sensor
H12	Alarm horn
J345	Trailer detector control unit
J386	Driver door control unit
J387	Front passenger door control unit
J540	Control unit for electromechanical parking brake
R149	Remote control receiver for auxiliary coolant heater
SC17	Fuse 17 on fuse holder C
SC29	Fuse 29 on fuse holder C
SC30	Fuse 30 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD29	Fuse 29 on fuse holder D
SD30	Fuse 30 on fuse holder D
SD31	Fuse 31 on fuse holder D
T3ah	3-pin connector
T3r	3-pin connector
T4af	4-pin connector
T6i	6-pin connector
T10e	10-pin connector, near interior mirror
T12g	12-pin connector, coupling point, trailer operation
T12h	12-pin connector
T20g	20-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T30	30-pin connector
U10	Trailer socket
B250	Positive connection, in roof wiring harness
B327	Positive connection 13 (30a), in main wiring harness
B329	Positive connection 15 (30a), in main wiring harness
B330	Positive connection 16 (30a), in main wiring harness

ws	=	white
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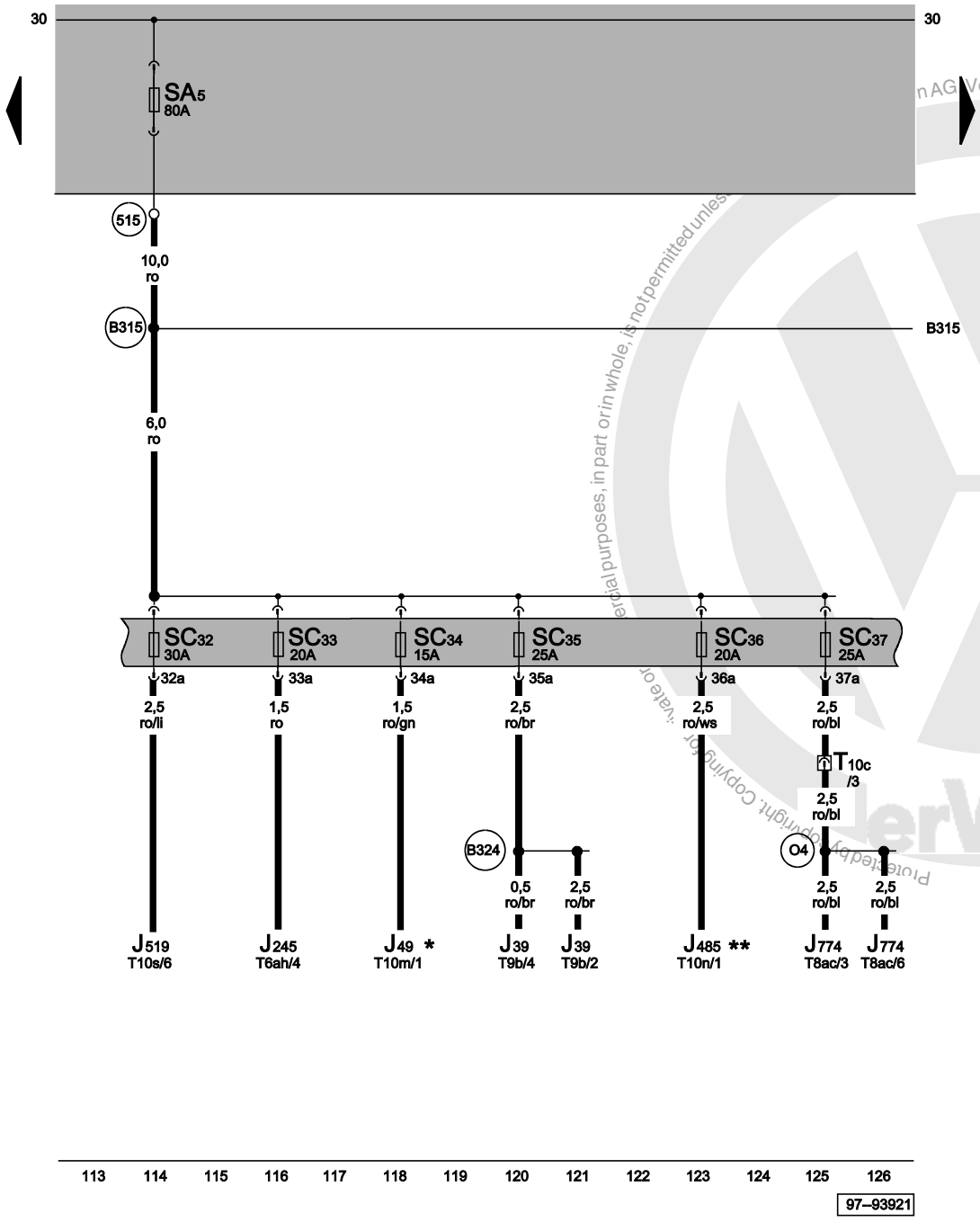


ws = white
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Fuses

E538	electromechanical parking brake button
F189	Tiptronic switch
J104	ABS control unit
J255	Climatronic control unit
J301	Air conditioning system control unit
J387	Front passenger door control unit
J446	Parking aid control unit
J714	Power latching system relay
SD12	Fuse 12 on fuse holder D
SD13	Fuse 13 on fuse holder D
SD14	Fuse 14 on fuse holder D
SD15	Fuse 15 on fuse holder D
SD16	Fuse 16 on fuse holder D
SD17	Fuse 17 on fuse holder D
T10i	10-pin connector
T10o	10-pin connector
T16	16-pin connector
T20b	20-pin connector
T20c	20-pin connector, on control unit for Climatronic/air conditioning system
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T38	38-pin connector
B330	Positive connection 16 (30a), in main wiring harness
B332	Positive connection 18 (30a), in main wiring harness
*	Only on vehicles with Climatic
**	Only on vehicles with automatic gearbox
***	Only on vehicles with Climatronic
-●-	Only on vehicles with Climatronic and auxiliary heater
---	Only on vehicles with power latch system

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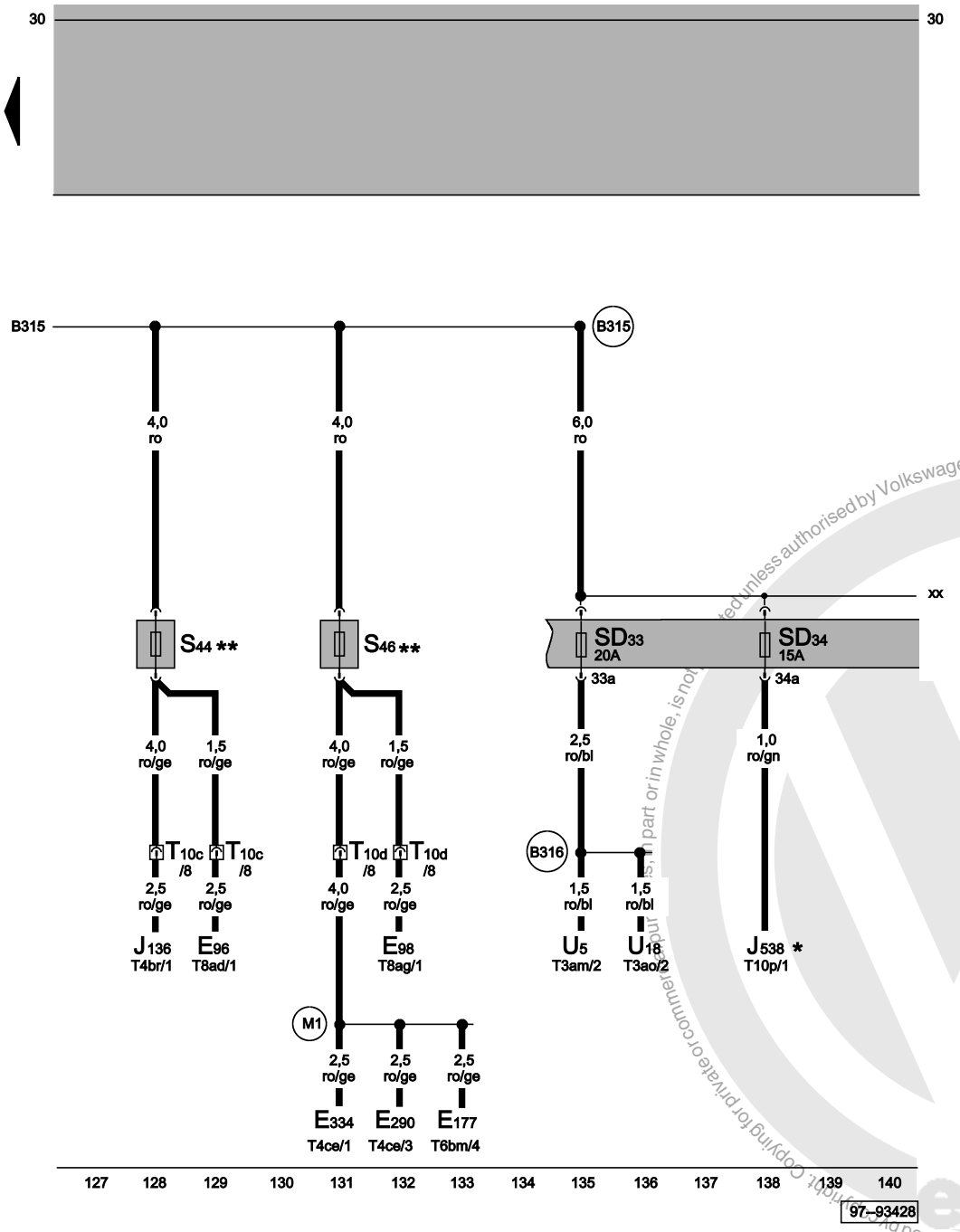


Fuses

J39	Headlight washer system relay
J49	Electric fuel pump 2 relay
J245	Sliding sunroof adjustment control unit
J485	Auxiliary heater operation relay
J519	Onboard supply control unit
J774	Heated front seats control unit
SA5	Fuse 5 on fuse holder A
SC32	Fuse 32 on fuse holder C
SC33	Fuse 33 on fuse holder C
SC34	Fuse 34 on fuse holder C
SC35	Fuse 35 on fuse holder C
SC36	Fuse 36 on fuse holder C
SC37	Fuse 37 on fuse holder C
T6ah	6-pin connector
T8ac	8-pin connector
T9b	9-pin connector
T10c	10-pin connector
T10n	10-pin connector, on E-box
T10s	10-pin connector, black
515	Threaded connection 5 (30a), on relay plate
B315	Positive connection 1 (30a), in main wiring harness
B324	Positive connection 10 (30a), in main wiring harness
O4	Positive connection (30as), in seat heating wiring harness
*	Only on vehicles with engine codes BKC, BMP
**	Only on vehicles with Climatic and auxiliary heater

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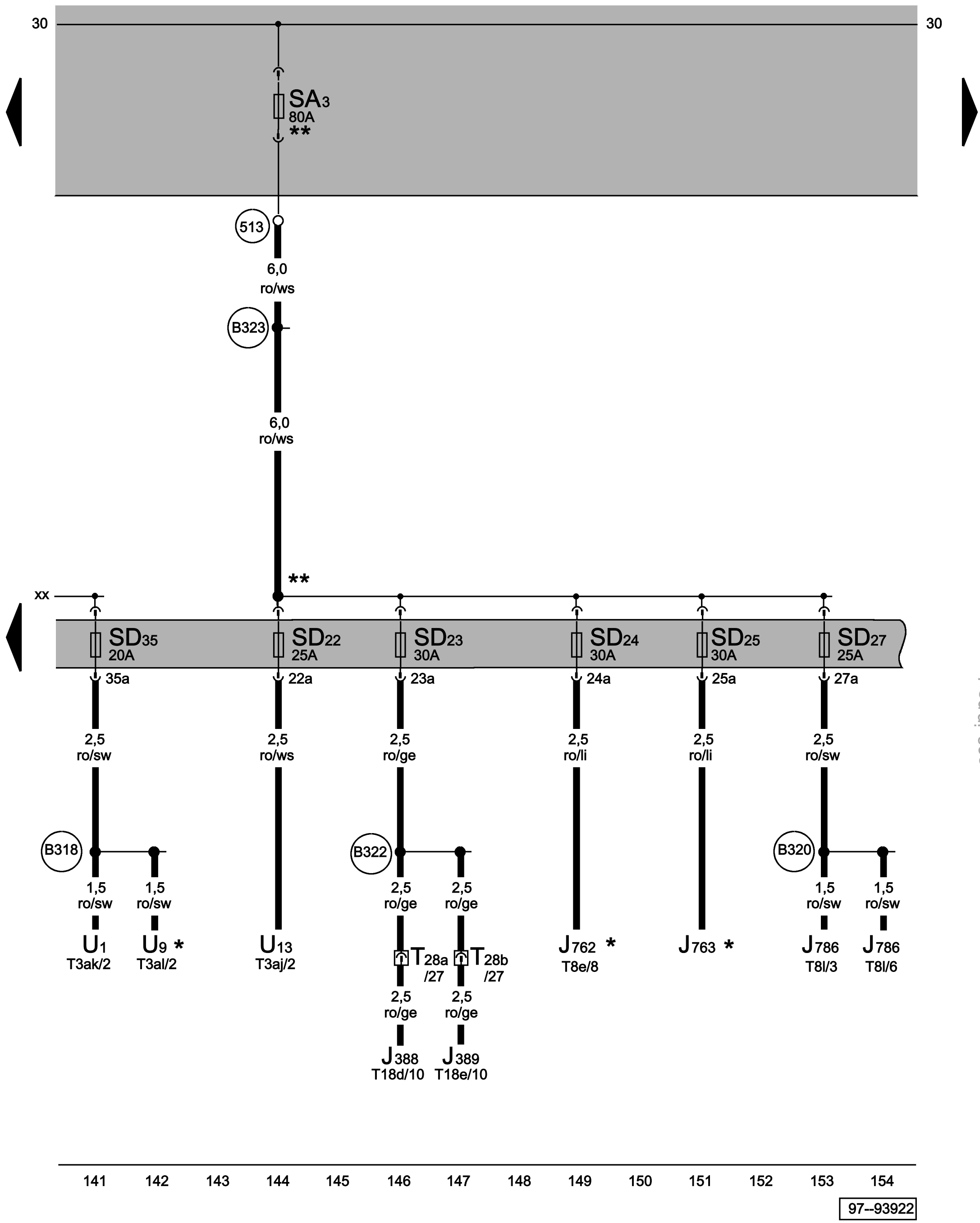


Fuses

E96	Driver seat backrest adjustment switch
E98	Front passenger seat backrest adjustment switch
E177	Front passenger seat lumbar support adjustment switch
E290	Front passenger side height adjustment switch
E334	Front passenger seat rake adjustment button
J136	Seat and steering column adjustment control unit with memory
J538	Fuel pump control unit
S44	Thermal fuse 1 for driver seat adjustment **
S46	Thermal fuse 1 for front passenger seat adjustment **
SD33	Fuse 33 on fuse holder D
SD34	Fuse 34 on fuse holder D
T3am	3-pin connector
T3ao	3-pin connector
T4br	4-pin connector
T4ce	4-pin connector
T6bm	6-pin connector
T8ad	8-pin connector
T8ag	8-pin connector
T10c	10-pin connector, coupling point driver side, under seat
T10d	10-pin connector, coupling point front passenger side, under seat
T10p	10-pin connector
U5	12 V socket
U18	12 V socket 2
B315	Positive connection 1 (30a), in main wiring harness
B316	Positive connection 2 (30a), in main wiring harness
M1	Positive connection 1 (30), in seat adjustment wiring harness
*	Only on vehicles with engine codes BLF, BLR, BLY
**	See Fitting Locations

ws	=	white
sw	=	black
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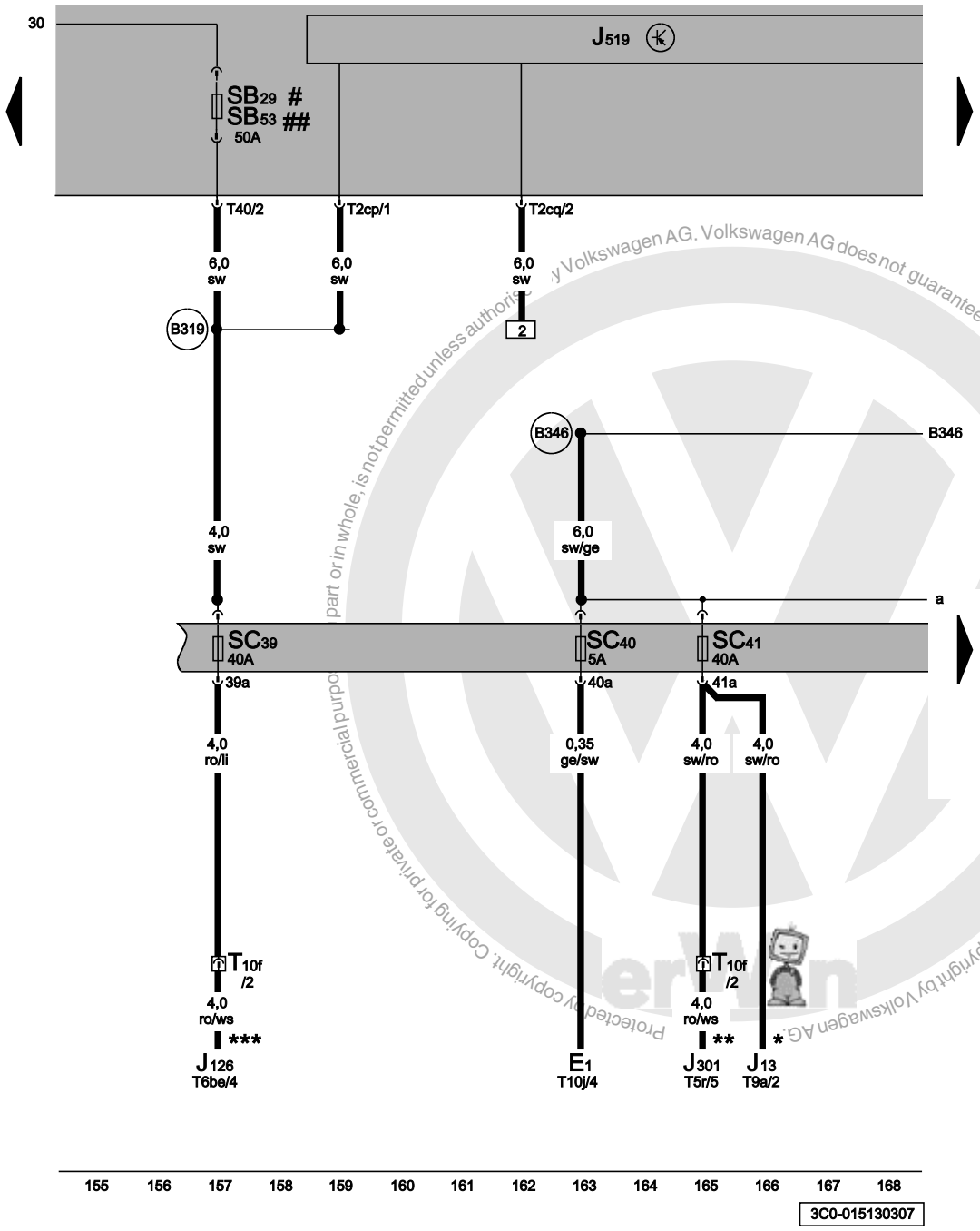


Fuses

J388	Rear left door control unit
J389	Rear right door control unit
J762	Power latching control unit for rear left door
J763	Power latching control unit for rear right door
J786	heated backrest control unit
SA3	Fuse 3 on fuse holder A
SD22	Fuse 22 on fuse holder D
SD23	Fuse 23 on fuse holder D
SD24	Fuse 24 on fuse holder D
SD25	Fuse 25 on fuse holder D
SD27	Fuse 27 on fuse holder D
SD35	Fuse 35 on fuse holder D
T3aj	3-pin connector
T3ak	3-pin connector
T3al	3-pin connector
T8e	8-pin connector
T8l	8-pin connector
T18d	18-pin connector
T18e	18-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
U1	Cigarette lighter
U9	Rear cigarette lighter
U13	AC/DC converter with socket, 12 V - 230 V
513	Threaded connection 3 (30a), on relay plate
B318	Positive connection 4 (30a), in main wiring harness
B320	Positive connection 6 (30a), in main wiring harness
B322	Positive connection 8 (30a), in main wiring harness
B323	Positive connection 9 (30a), in main wiring harness
*	Only on estate vehicles with power latch system
**	Not on all equipment levels

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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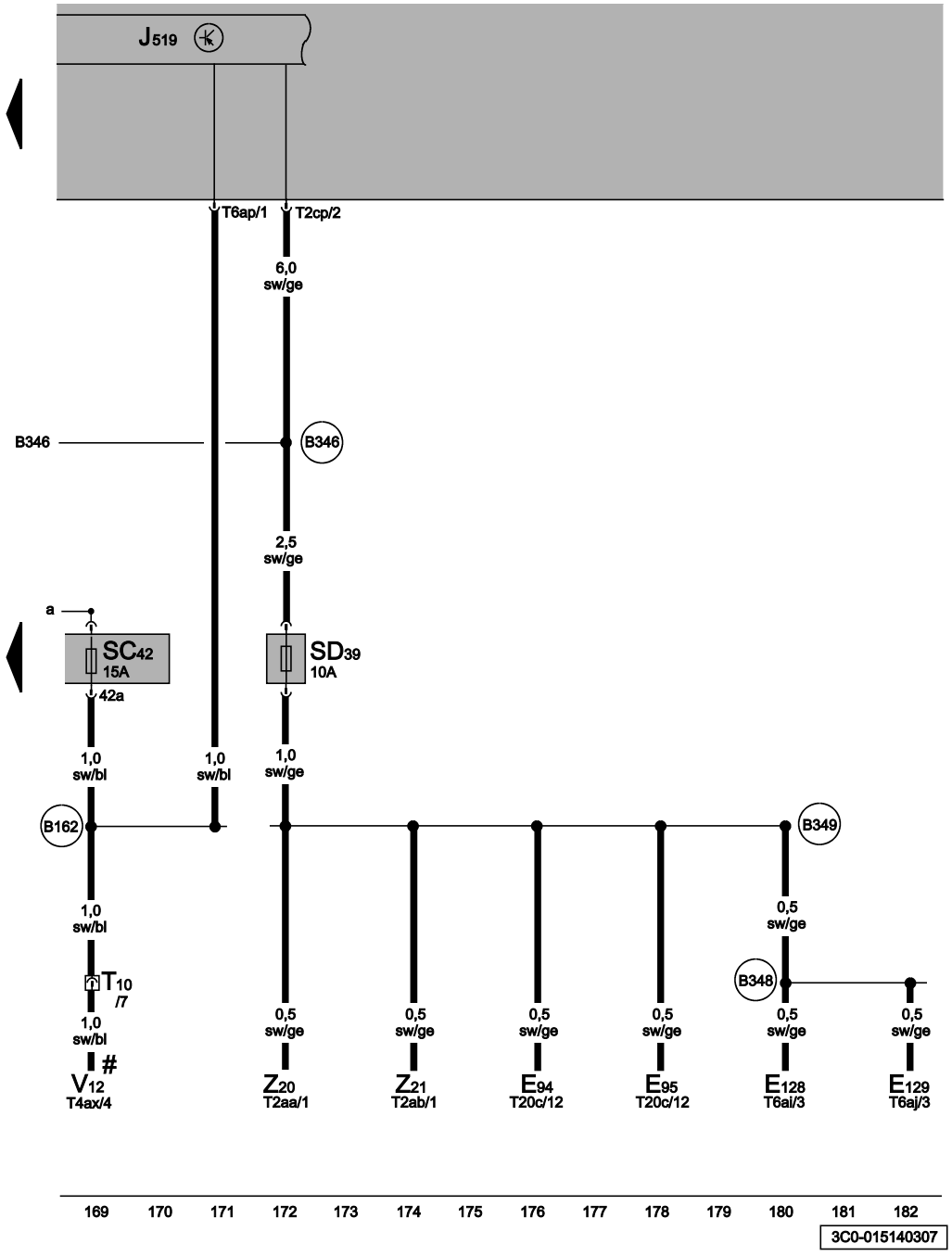


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li = purple
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or = orange
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Fuses

E1	Light switch
J13	Fresh air blower relay
J126	Fresh air blower control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC39	Fuse 39 on fuse holder C
SC40	Fuse 40 on fuse holder C
SC41	Fuse 41 on fuse holder C
T2cp	2-pin connector
T2cq	2-pin connector
T5r	5-pin connector
T6be	6-pin connector
T9a	9-pin connector
T10f	10-pin connector, coupling point, heater/air conditioning system
T10j	10-pin connector
T40	40-pin connector, under E-box, in engine compartment
B319	Positive connection 5 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
*	Only on vehicles with Climatic and auxiliary heater
**	Only on vehicles with Climatic and without auxiliary heater
***	Only on vehicles with Climatronic
#	Only on vehicles with E-box low
##	Only on vehicles with E-box high

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Fuses

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
E128	Heated rear left seat switch with regulator
E129	Heated rear right seat switch with regulator
J519	Onboard supply control unit
SC42	Fuse 42 on fuse holder C
SD39	Fuse 39 on fuse holder D
T2aa	2-pin connector
T2ab	2-pin connector
T2cp	2-pin connector
T4ax	4-pin connector
T6ai	6-pin connector
T6aj	6-pin connector
T6ap	6-pin connector
T10	10-pin connector, coupling point, on left of rear lid
T20c	20-pin connector, on control unit for Climatronic/air conditioning system
V12	Rear window wiper motor
Z20	Left washer jet heater element
Z21	Right washer jet heater element
B162	Connection (75a), in interior wiring harness
B346	Connection 1 (75), in main wiring harness
B348	Connection 1 (75A) in main wiring harness
B349	Connection 2 (75A) in main wiring harness
#	Only on estate

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Climatic

From November 2004

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

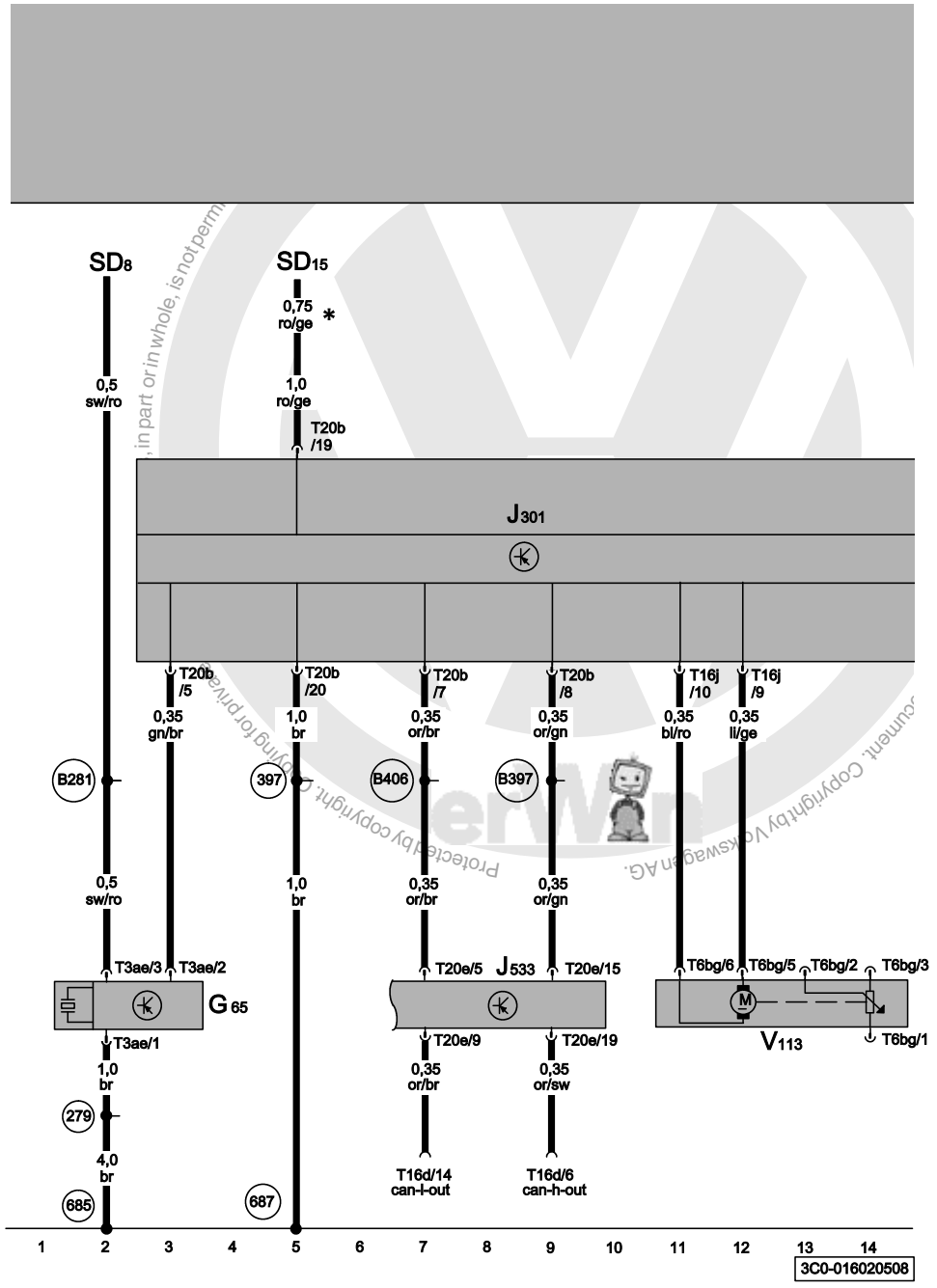
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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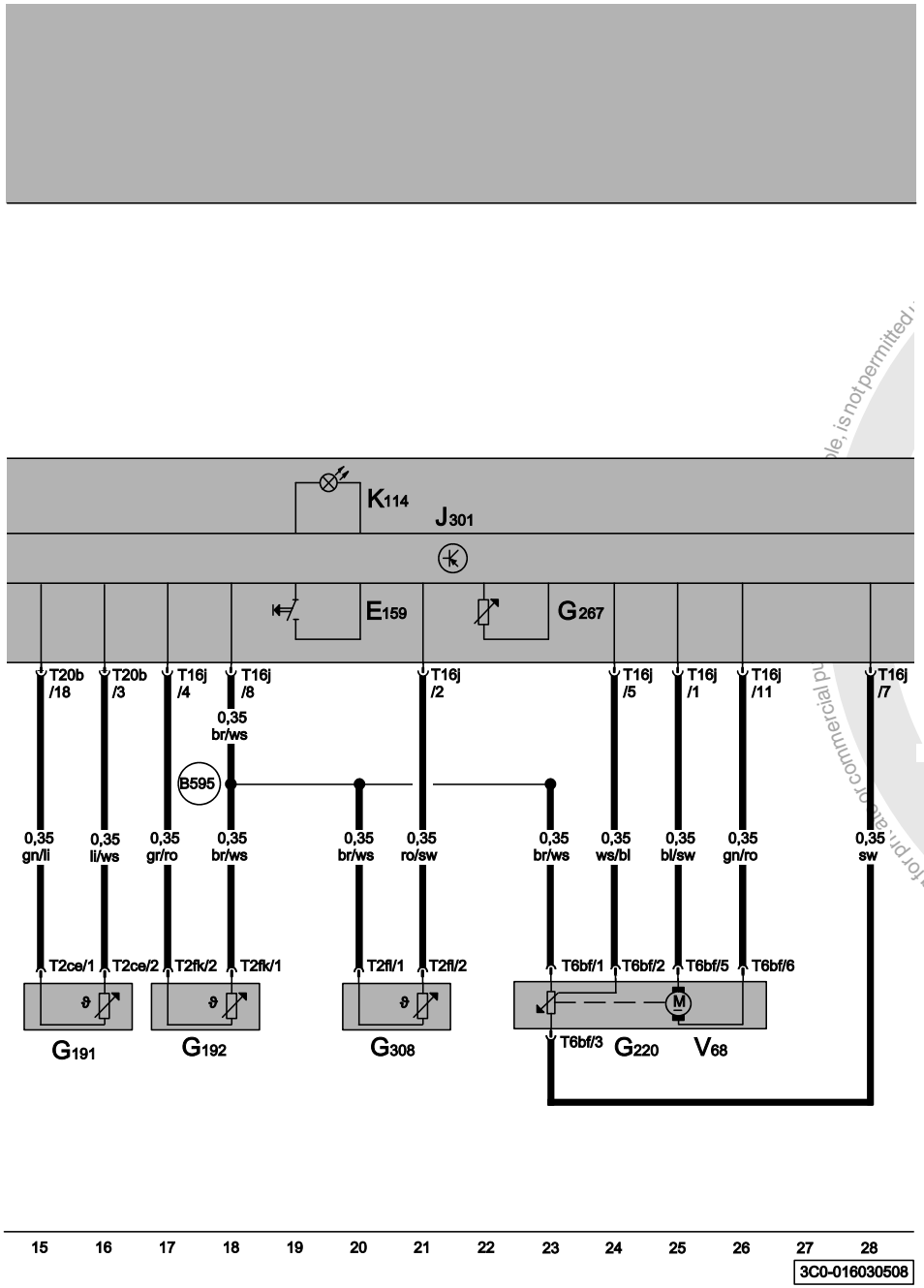


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Air conditioning system control unit, high-pressure sender, data bus diagnostic interface, self-diagnosis connection, air recirculation flap control motor

G65	High-pressure sender
J301	Air conditioning system control unit
J533	Data bus diagnosis interface
SD8	Fuse 8 on fuse holder D
SD15	Fuse 15 on fuse holder D
T3ae	3-pin connector
T6bg	6-pin connector
T16d	16-pin connector, self-diagnosis connection
T16j	16-pin connector, black
T20b	20-pin connector, black
T20e	20-pin connector
V113	Air recirculation flap control motor
279	Earth connection 5, in interior wiring harness
397	Earth connection 32, in main wiring harness
685	Earth point 1 at front of right longitudinal member
687	Earth point 1, on centre tunnel
B281	Connection 5 (15a), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Applicable from November 2006

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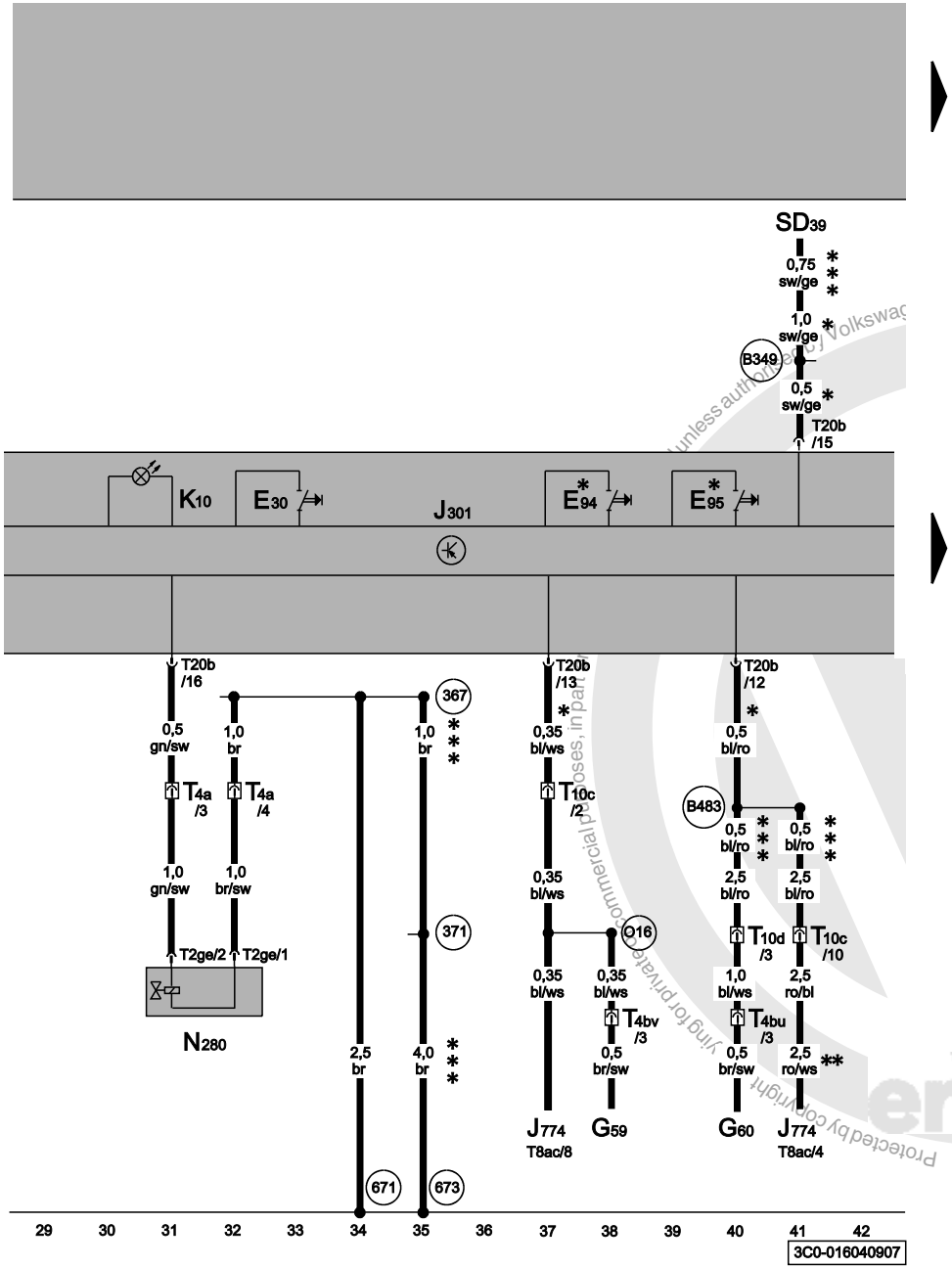


Air conditioning system control unit, fresh air and air recirculation flap switch, centre vent temperature sender, footwell vent temperature sender, temperature flap control motor, evaporator temperature sensor

E159	Fresh air and air recirculation flap switch
G191	Centre vent temperature sender
G192	Footwell vent temperature sender
G220	Potentiometer for left temperature flap control motor
G267	Potentiometer for temperature selection rotary knob
G308	Evaporator temperature sensor
J301	Air conditioning system control unit
K114	Fresh air and air recirculation warning lamp
T2ce	2-pin connector
T2fk	2-pin connector, black
T2fl	2-pin connector, black
T6bf	6-pin connector
T16j	16-pin connector, black
T20b	20-pin connector, black
V68	Temperature flap control motor
B595	Connection 2, in Climatic wiring harness

ws	=	white
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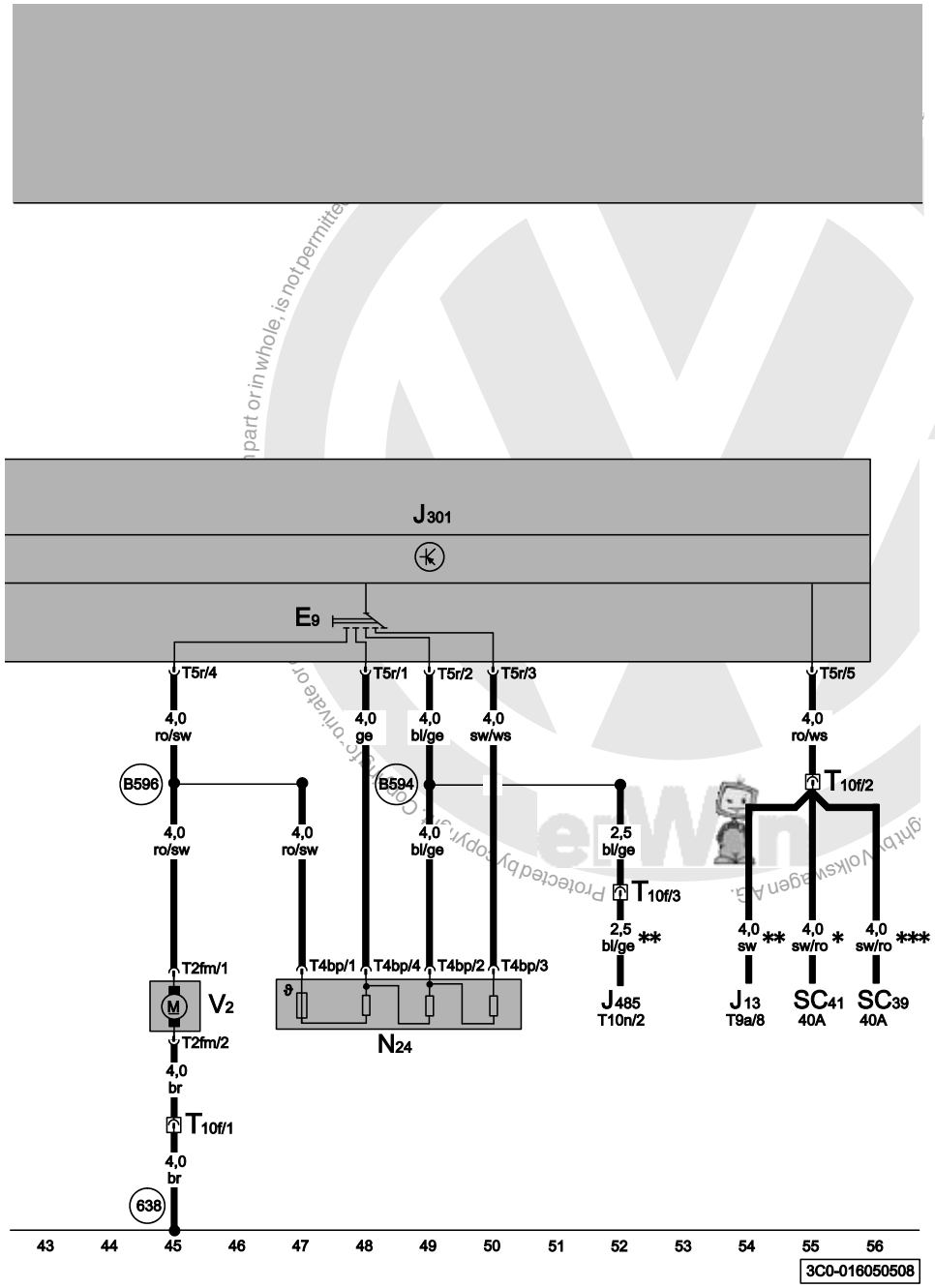
Air conditioning system control unit, air conditioner compressor regulating valve

E30	Air conditioning system switch
E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
G59	Driver seat temperature sensor
G60	Front passenger seat temperature sensor
J301	Air conditioning system control unit
J774	Control unit for heated front seats
K10	Heated rear window warning lamp
N280	Air conditioner compressor regulating valve
SD39	Fuse 39 on fuse holder D
T2ge	2-pin connector
T4a	4-pin connector, near starter
T4bu	4-pin connector, black, under front passenger seat seat
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
T20b	20-pin connector, black
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B349	Connection 2 (75A), in main wiring harness
B483	Connection 19, in main wiring harness
O16	Connection 5, in seat heating wiring harness

ws	white
sw	black
ro	red
br	brown
gn	green
bl	blue
gr	grey
li	purple
ge	yellow
or	orange
rs	pink

*	Only seat heating
**	Applicable from May 2005
***	Applicable from November 2006

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ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Air conditioning system control unit, fresh air blower switch, fresh air blower series resistor with overheating fuse, fresh air blower

E9	Fresh air blower switch
J13	Fresh air blower relay
J301	Air conditioning system control unit
J485	Auxiliary heater operation relay
N24	Fresh air blower series resistor with overheating fuse
SC39	Fuse 39 on fuse holder C
SC41	Fuse 41 on fuse holder C
T2fm	2-pin connector, black
T4bp	4-pin connector, black
T5r	5-pin connector, black
T9a	9-pin connector
T10f	10-pin connector, black, heater/air conditioner
T10n	10-pin connector
V2	Fresh air blower
638	Earth point, on right A-pillar
B594	Connection 1, in Climatic wiring harness
B596	Connection 3, in Climatic wiring harness
*	Only models with no auxiliary coolant heater
**	Only models with auxiliary coolant heater
***	Only models with no auxiliary coolant heater, applicable from May 2006

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Anti-lock brake system (ABS) with electronic stabilisation program (ESP)

From November 2004

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

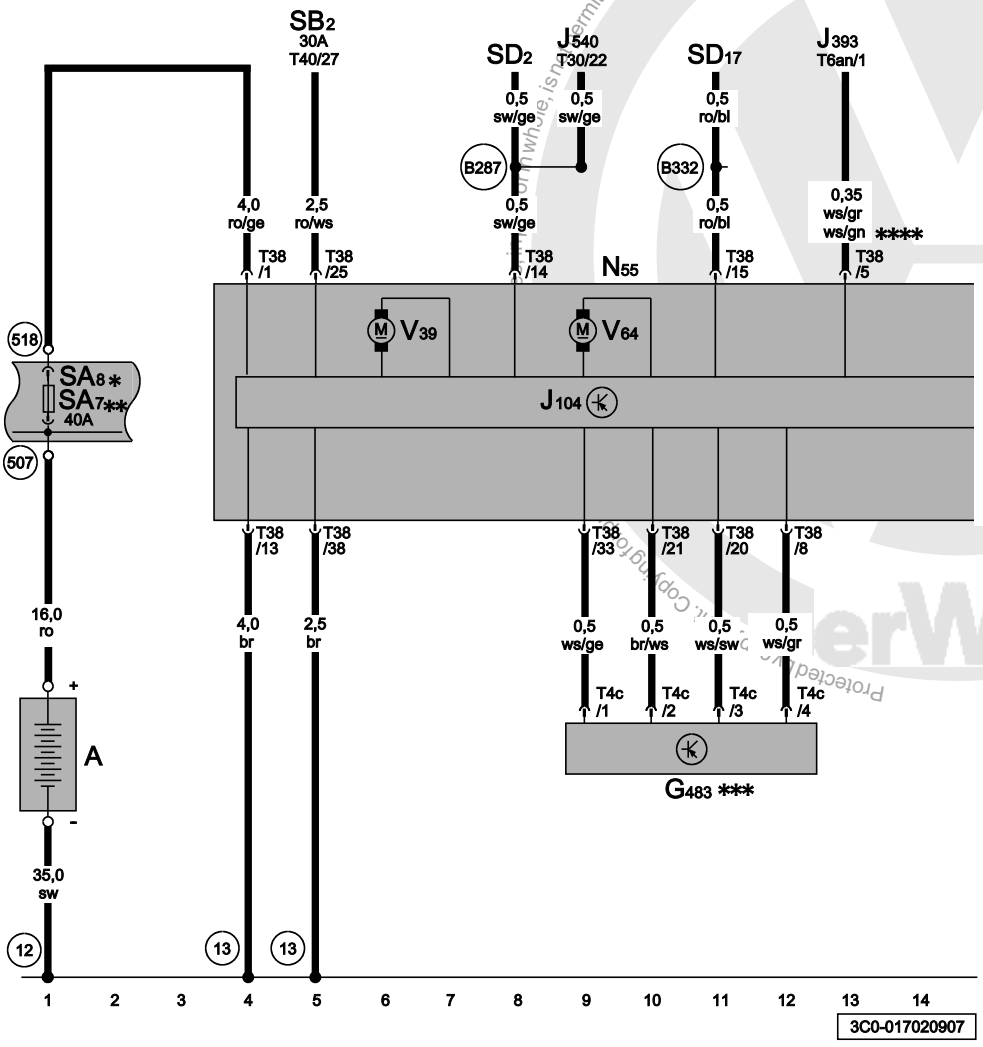
For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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ABS control unit, brake servo vacuum sender, ABS hydraulic unit



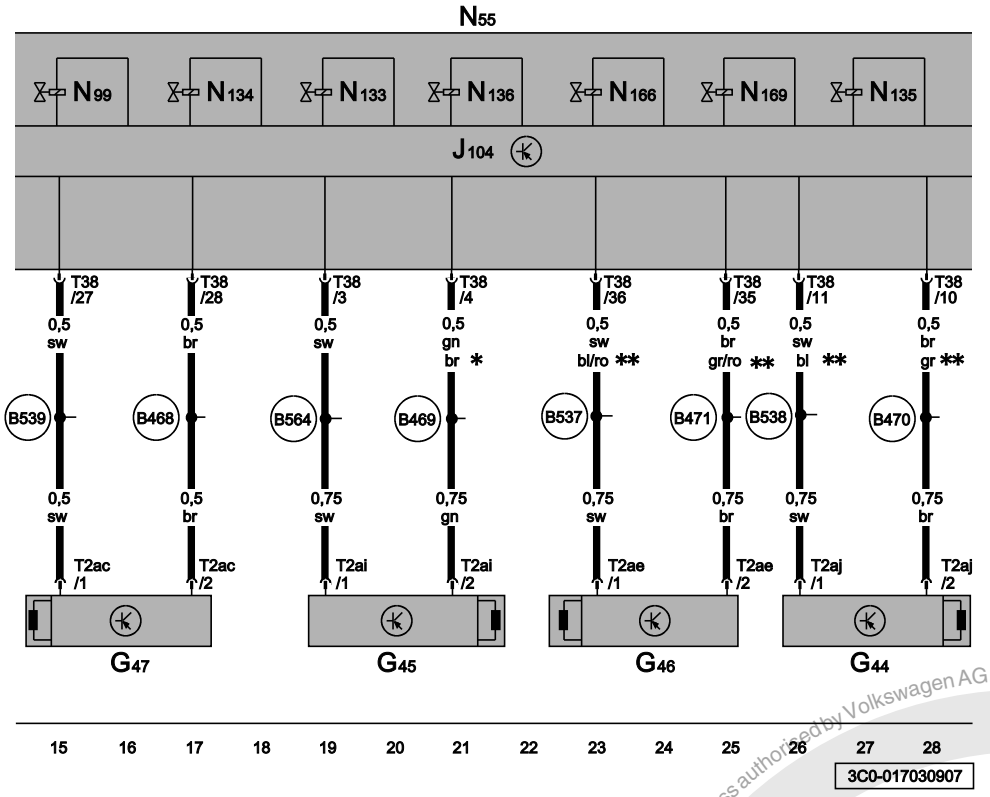
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A	Battery
G483	Brake servo vacuum sender
J104	ABS control unit
J393	Convenience system central control unit
J540	Control unit for electromechanical parking brake
N55	ABS hydraulic unit
SA7	Fuse 7 on fuse holder A
SA8	Fuse 8 on fuse holder A
SB2	Fuse 2 on fuse holder B
SD2	Fuse 2 on fuse holder D
SD17	Fuse 17 on fuse holder D
T4c	4-pin connector
T6an	6-pin connector
T30	30-pin connector
T38	38-pin connector
T40	40-pin connector
V39	ABS return flow pump
V64	ABS hydraulic pump
12	Earth point, on left in engine compartment
13	Earth point, on right in engine compartment
507	Threaded connection (30), on battery fuse holder
518	Threaded connection 8 (30a) on relay plate
B287	Connection 11 (15a), in main wiring harness
B332	Connection 18 (30a), in main wiring harness
*	Only on vehicles with E-box low
**	Only on vehicles with E-box high
***	Only on vehicles with ESP
****	Applicable from May 2005

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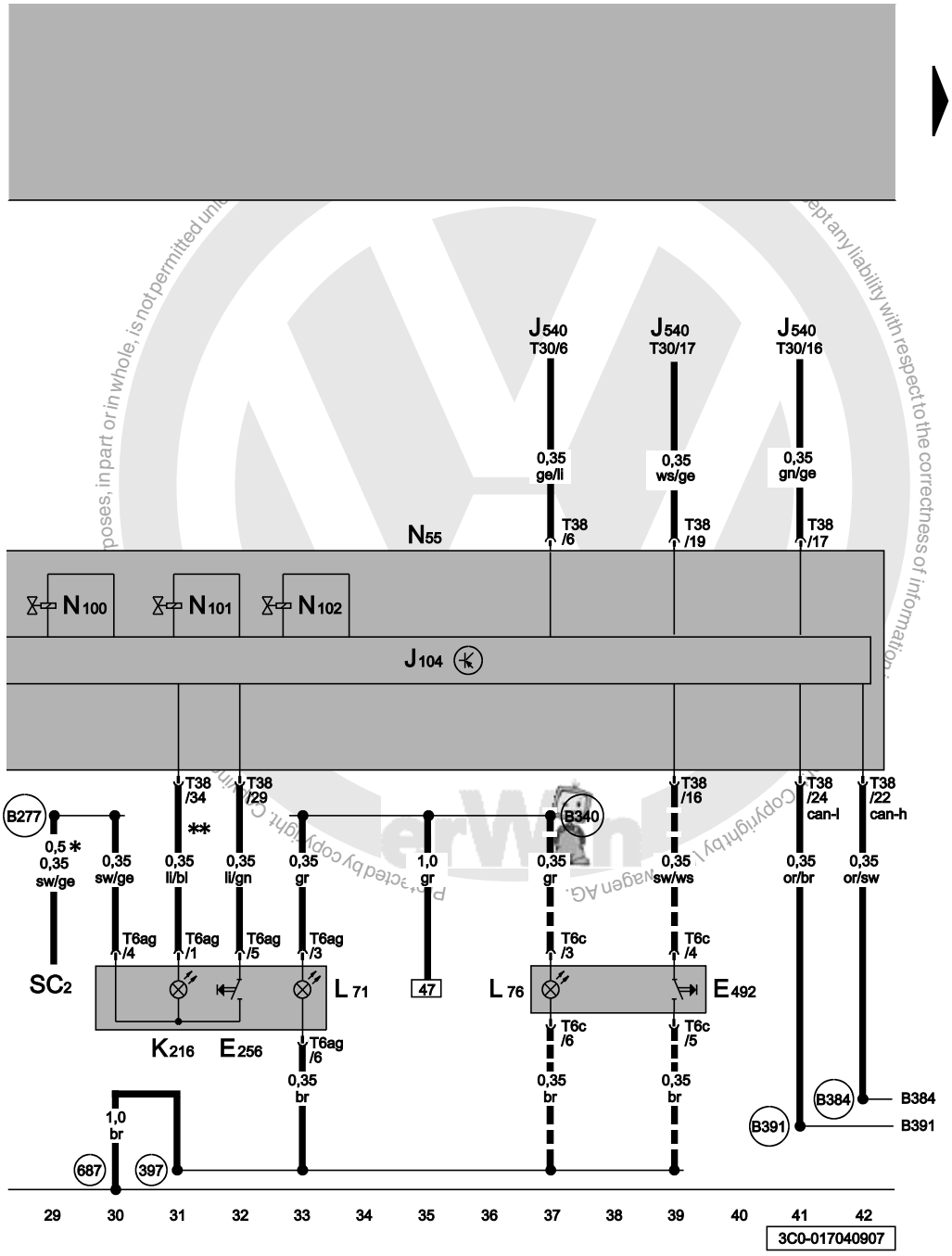
ABS control unit , ABS hydraulic unit, speed sensor

G44	Rear right speed sensor
G45	Front right speed sensor
G46	Rear left speed sensor
G47	Front left speed sensor
J104	ABS control unit
N55	ABS hydraulic unit
N99	Front right ABS inlet valve
N133	Rear right ABS inlet valve
N134	Rear left ABS inlet valve
N135	Rear right ABS outlet valve
N136	Rear left ABS outlet valve
N166	Front right EDL changeover valve
N169	Front left EDL outlet valve
T2ac	2-pin connector
T2ae	2-pin connector
T2ai	2-pin connector
T2aj	2-pin connector
T38	38-pin connector
B468	Connection 4 in main wiring harness
B469	Connection 5 in main wiring harness
B470	Connection 6 in main wiring harness
B471	Connection 7 in main wiring harness
B537	Connection 28 in main wiring harness
B538	Connection 29 in main wiring harness
B539	Connection 30 in main wiring harness
B564	Connection 31 in main wiring harness
*	Applicable from May 2005
**	Applicable from November 2006



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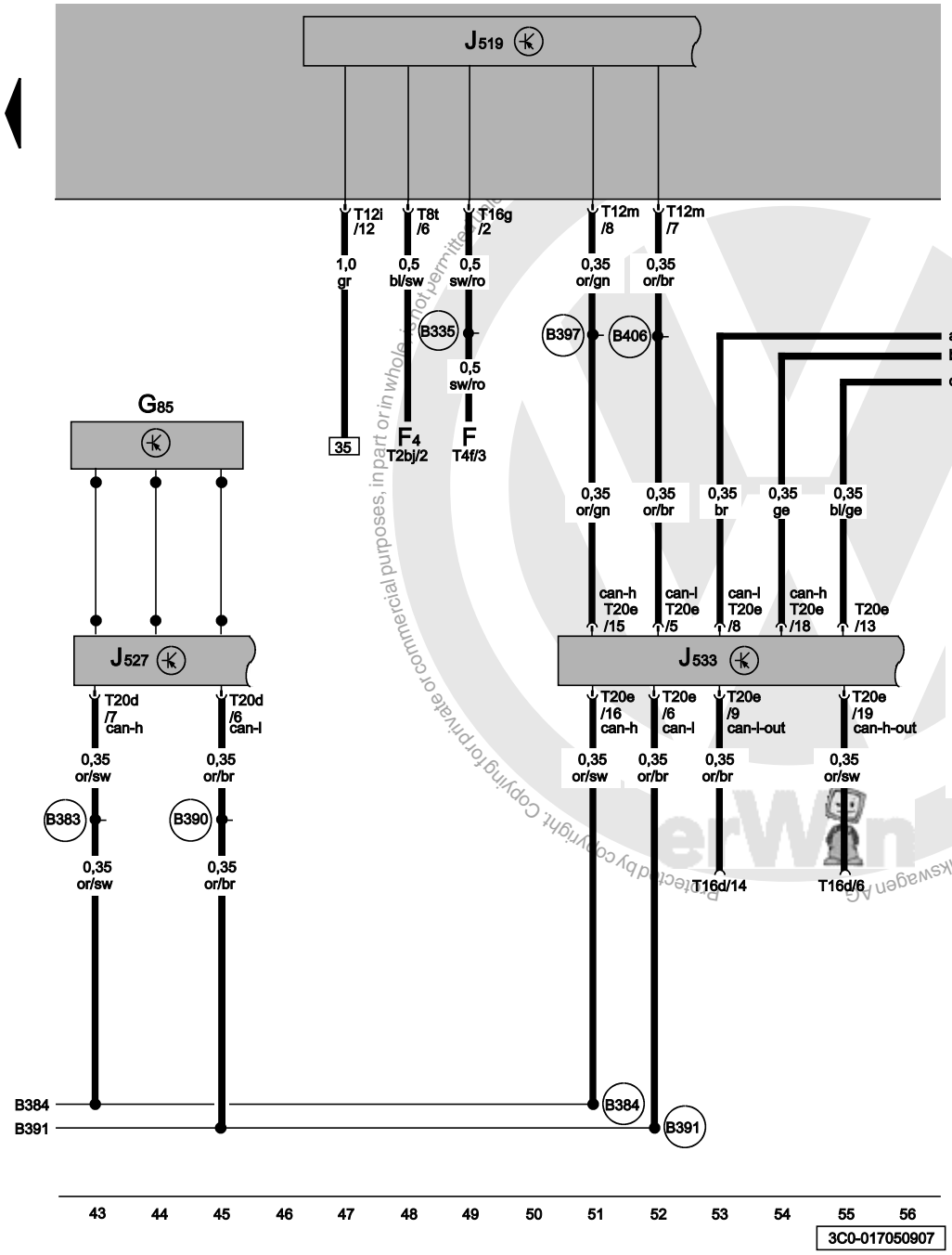


ABS control unit, ABS hydraulic unit, TCS and ESP button, tyre pressure monitor display button

E256	TCS and ESP button
E492	Tyre pressure monitor display button
J104	ABS control unit
J540	Control unit for electromechanical parking brake
N55	ABS hydraulic unit
N100	Front right ABS outlet valve
N101	Front left ABS inlet valve
N102	Front left ABS outlet valve
K216	ESP and TCS warning lamp 2
L71	Traction control switch illumination bulb
L76	Button illumination bulb
SC2	Fuse 2 on fuse holder C
T6c	6-pin connector
T6ag	6-pin connector
T30	30-pin connector
T38	38-pin connector
397	Earth connection 32, in main wiring harness
687	Earth point 1, on centre tunnel
B277	Connection 1 (15a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Applicable from May 2005
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/m_m.png" content-width="20pt" scaling="uniform"/>	Valid to October 2006 - Only on vehicles with tyre pressure display/ indicator

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Data bus diagnostic interface, steering column electronics control unit, steering angle sender, self-diagnosis connection

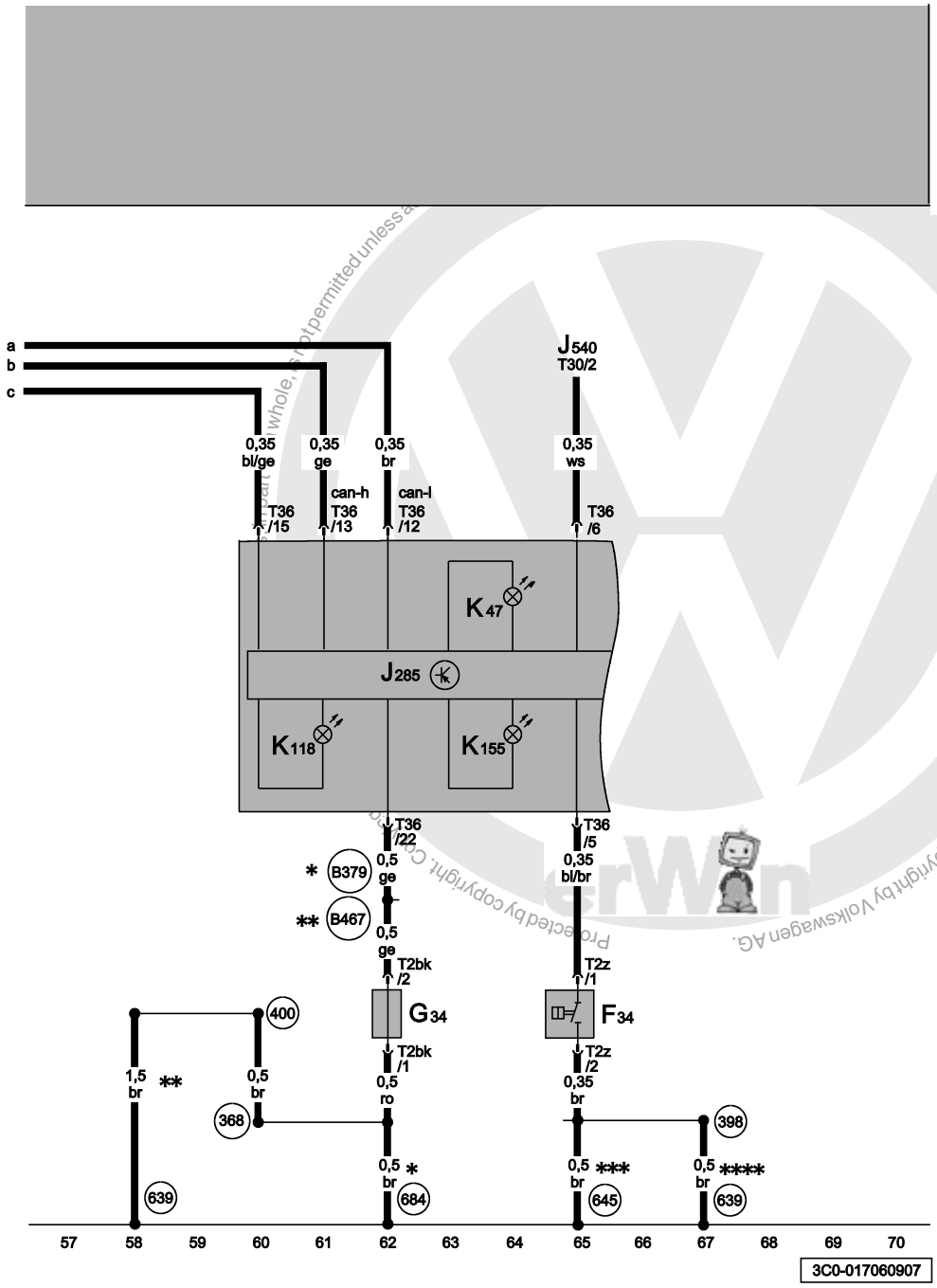


F	Brake light switch
F4	Reversing light switch
G85	Steering angle sender
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
T2bj	2-pin connector
T4f	4-pin connector
T8t	8-pin connector, black
T12i	12-pin connector, black
T12m	12-pin connector, black
T16d	16-pin connector, self-diagnosis connection
T16g	16-pin connector, black
T20d	20-pin connector
T20e	20-pin connector
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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Control unit in dash panel insert, ABS warning lamp, brake system warning lamp, ESP and TCS warning lamp



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F34	Brake fluid level warning contact
G34	Front left brake pad wear sender
J285	Control unit in dash panel insert
J540	Control unit for electromechanical parking brake
K47	ABS warning lamp
K118	Brake system warning lamp
K155	ESP and TCS warning lamp
T2z	2-pin connector
T2bk	2-pin connector
T30	30-pin connector
T36	36-pin connector
368	Earth connection 3, in main wiring harness
398	Earth connection 33, in main wiring harness
400	Earth connection 35, in main wiring harness
639	Earth point, left A-pillar
645	Earth point 1, on bulkhead
684	Earth point, on front of left side member
B379	Connection 1 (brake wear indicator), in main wiring harness
B467	Connection 3 in main wiring harness
*	Applicable up to April 2005
**	Applicable from May 2005
***	Valid from November 2006 to April 2007
****	Valid to October 2006 and from May 2007

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Airbag systems, 16 igniter circuits

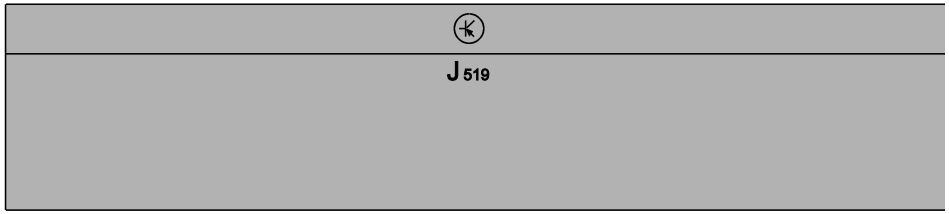
⇒ **Belt tensioner**
⇒ **Side airbag**
⇒ **Curtain airbag**
From November 2004

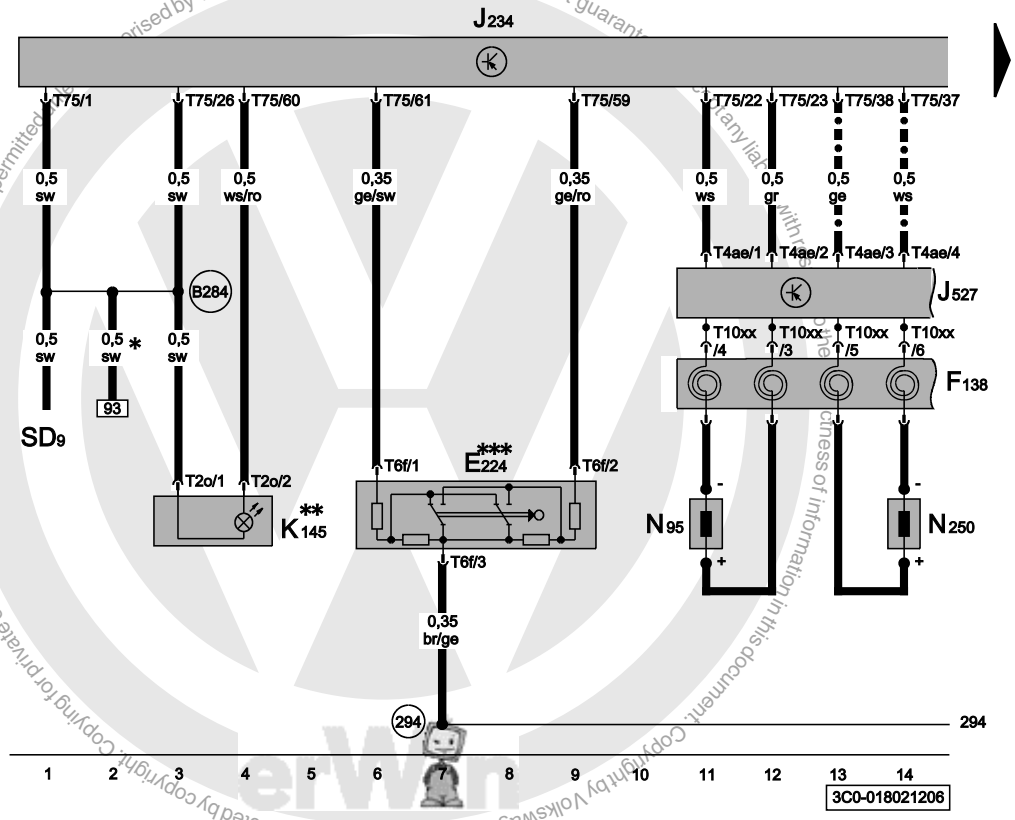
Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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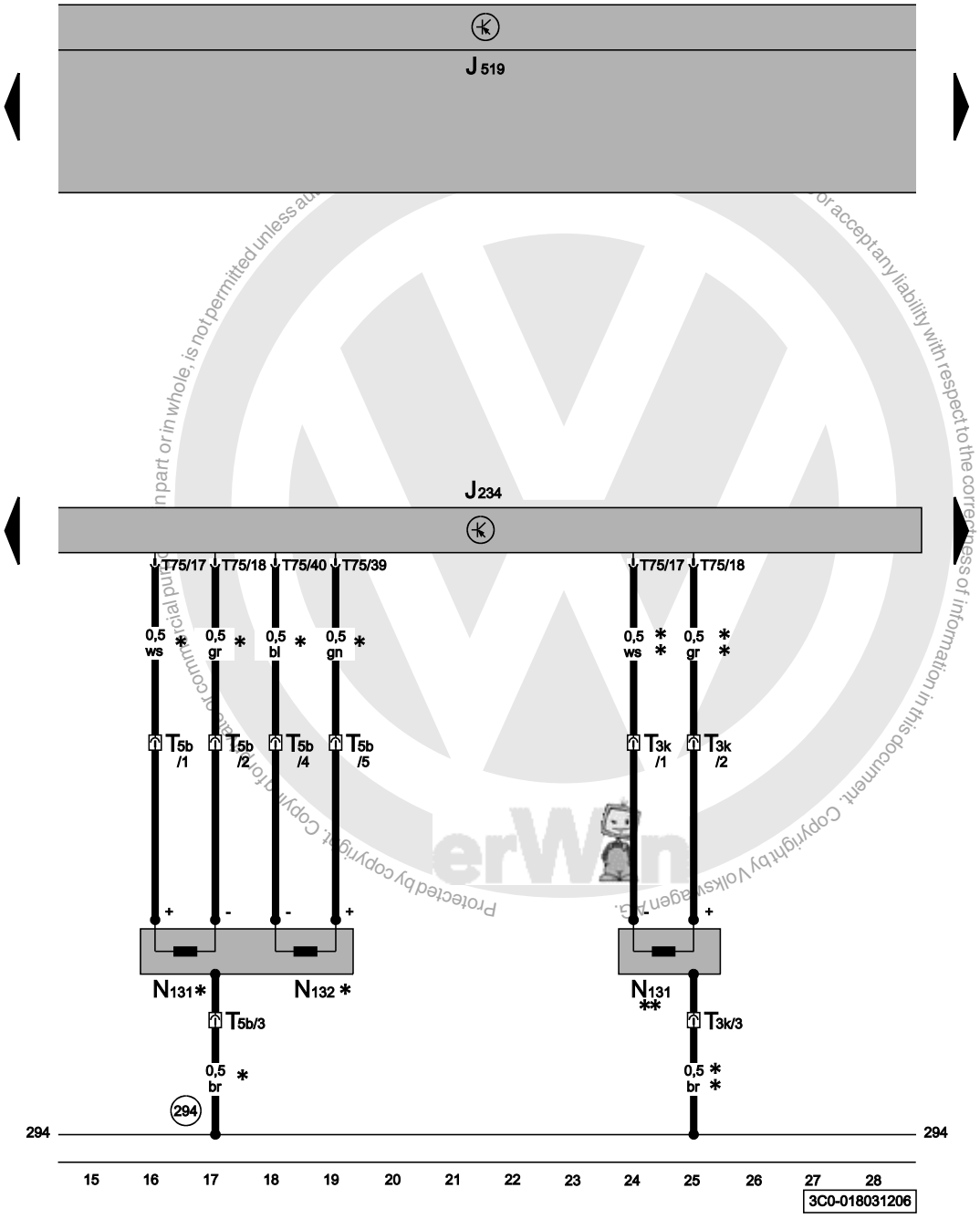


Airbag control unit, igniter for driver airbag, warning lamp and key operated switch to deactivate front passenger airbag

E224	Key operated switch to deactivate front passenger side airbag
F138	Airbag coil connector and return ring with slip ring
J234	Airbag control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
K145	Front passenger side airbag deactivated warning lamp
N95	Driver side airbag igniter
N250	Driver side airbag igniter 2
SD9	Fuse 9 on fuse holder D
T2o	2-pin connector
T4ae	4-pin connector, yellow, on steering column
T6f	6-pin connector
T10xx	10-pin connector
T75	75-pin connector
(294)	Earth connection 9, in interior wiring harness
(B284)	Connection 8 (15a), in main wiring harness
*	Only American markets, not for Mexico
**	Only models with deactivation of front passenger airbag
***	Only models with key operated switch to deactivate front passenger airbag
-●-	Applicable up to October 2006

ws	=	white
sw	=	black
ro	=	red
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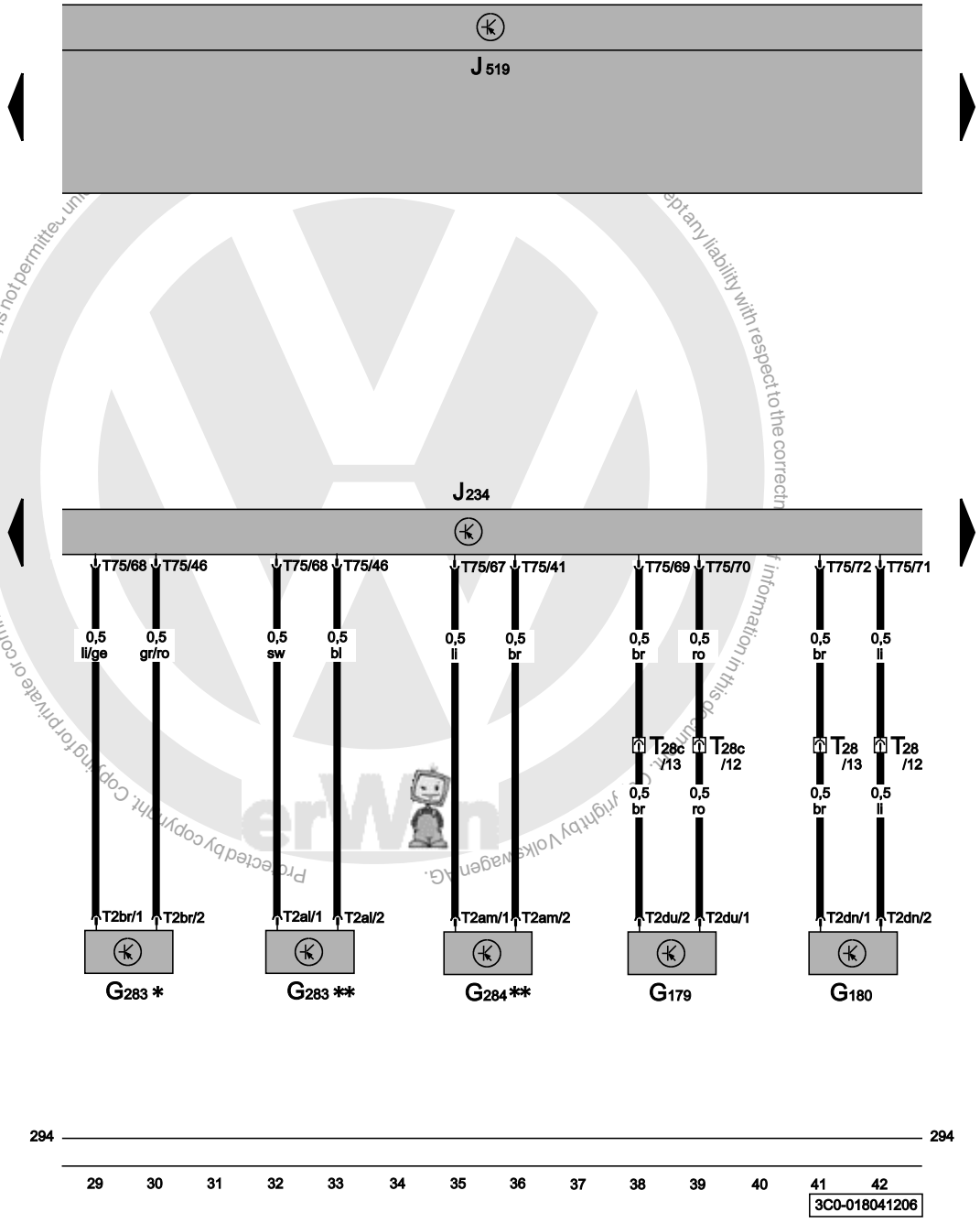


Airbag control unit, igniter for front passenger airbag

J234	Airbag control unit
J519	Onboard supply control unit
N131	Front passenger side airbag igniter 1
N132	Front passenger side airbag igniter 2
T3k	3-pin connector, yellow, behind glove compartment
T5b	5-pin connector, yellow, behind glove compartment
T75	75-pin connector
294	Earth connection 9, in interior wiring harness
*	Only models with two-stage airbag system
**	Only models with one-stage airbag system

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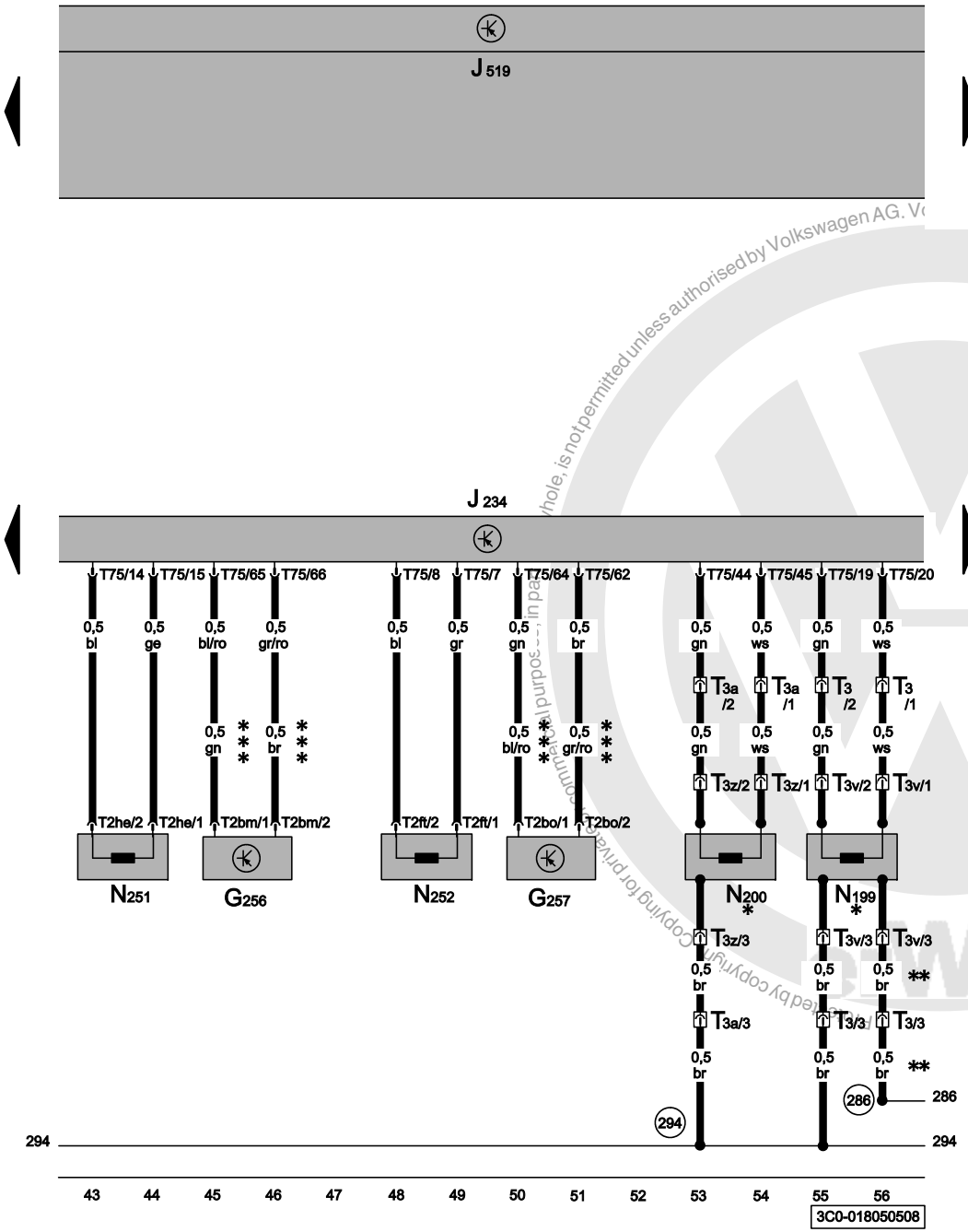


Airbag control unit, crash sensor for front airbag on driver side, crash sensor for side airbag

G179	Side airbag crash sensor on driver side
G180	Side airbag crash sensor on front passenger side
G283	Front airbag crash sensor for driver side
G284	Front airbag crash sensor for front passenger side
J234	Airbag control unit
J519	Onboard supply control unit
T2am	2-pin connector, yellow
T2al	2-pin connector, yellow
T2br	2-pin connector, yellow
T2dn	2-pin connector, yellow
T2du	2-pin connector, yellow
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T75	75-pin connector
294	Earth connection 9, in interior wiring harness
*	Not for American markets, discontinued from May 2006
**	Only American markets

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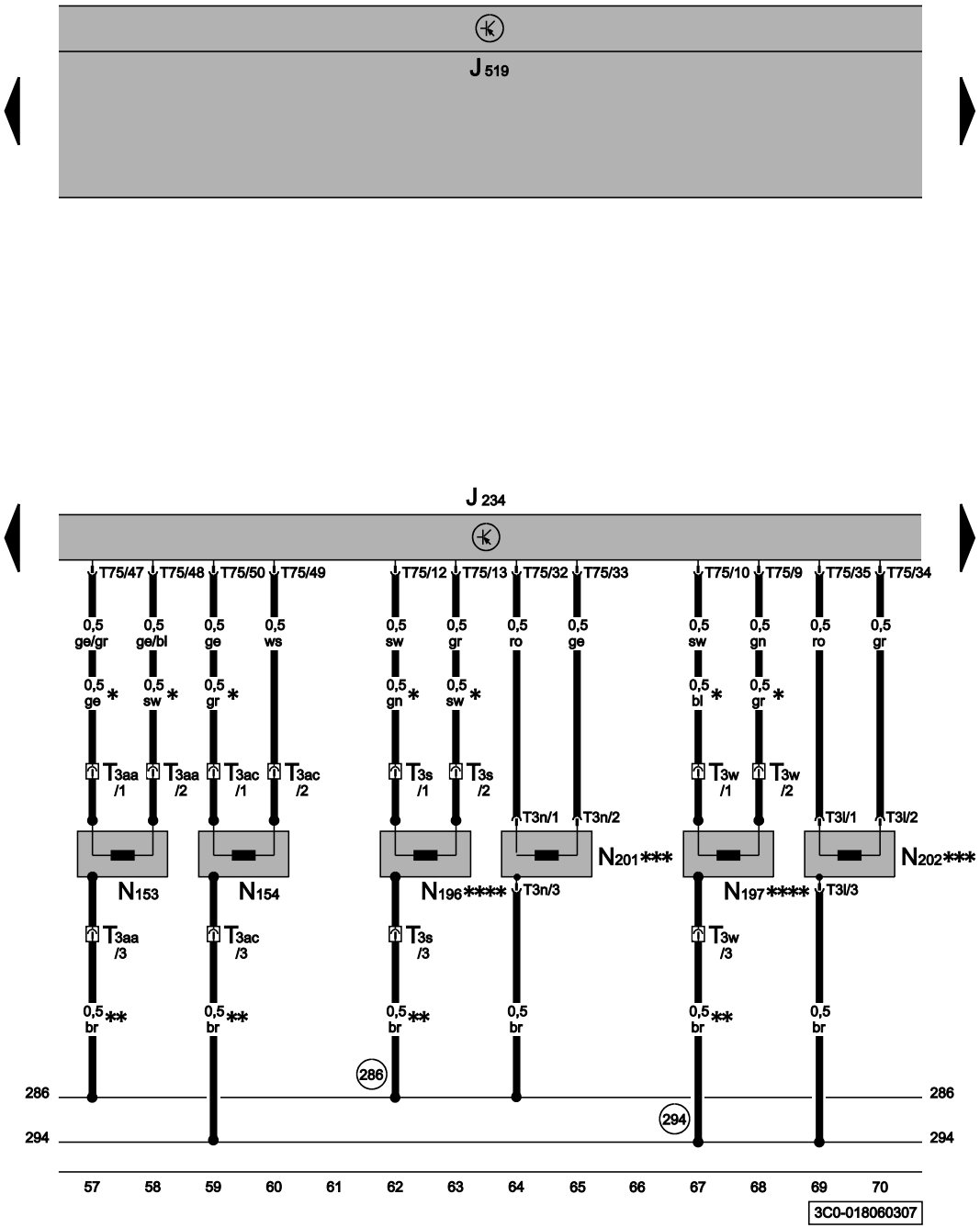


Airbag control unit, crash sensors for rear side airbags, igniters for curtain/head airbags

G256	Rear side airbag crash sensor on driver side
G257	Rear side airbag crash sensor on front passenger side
J234	Airbag control unit
J519	Onboard supply control unit
N199	Side airbag igniter on driver side
N200	Side airbag igniter on front passenger side
N251	Driver side curtain airbag igniter
N252	Front passenger side curtain airbag igniter
T2bm	2-pin connector, yellow
T2bo	2-pin connector, yellow
T2ft	2-pin connector, yellow
T2he	2-pin connector, yellow
T3	3-pin connector, yellow, under driver seat
T3a	3-pin connector, yellow, under front passenger seat
T3v	3-pin connector, yellow, in driver seat
T3z	3-pin connector, yellow, in front passenger seat
T75	75-pin connector
286	Earth connection 8, in interior wiring harness
294	Earth connection 9, in interior wiring harness
*	Only models with side airbag
**	Applicable up to October 2006
***	Only right-hand drive

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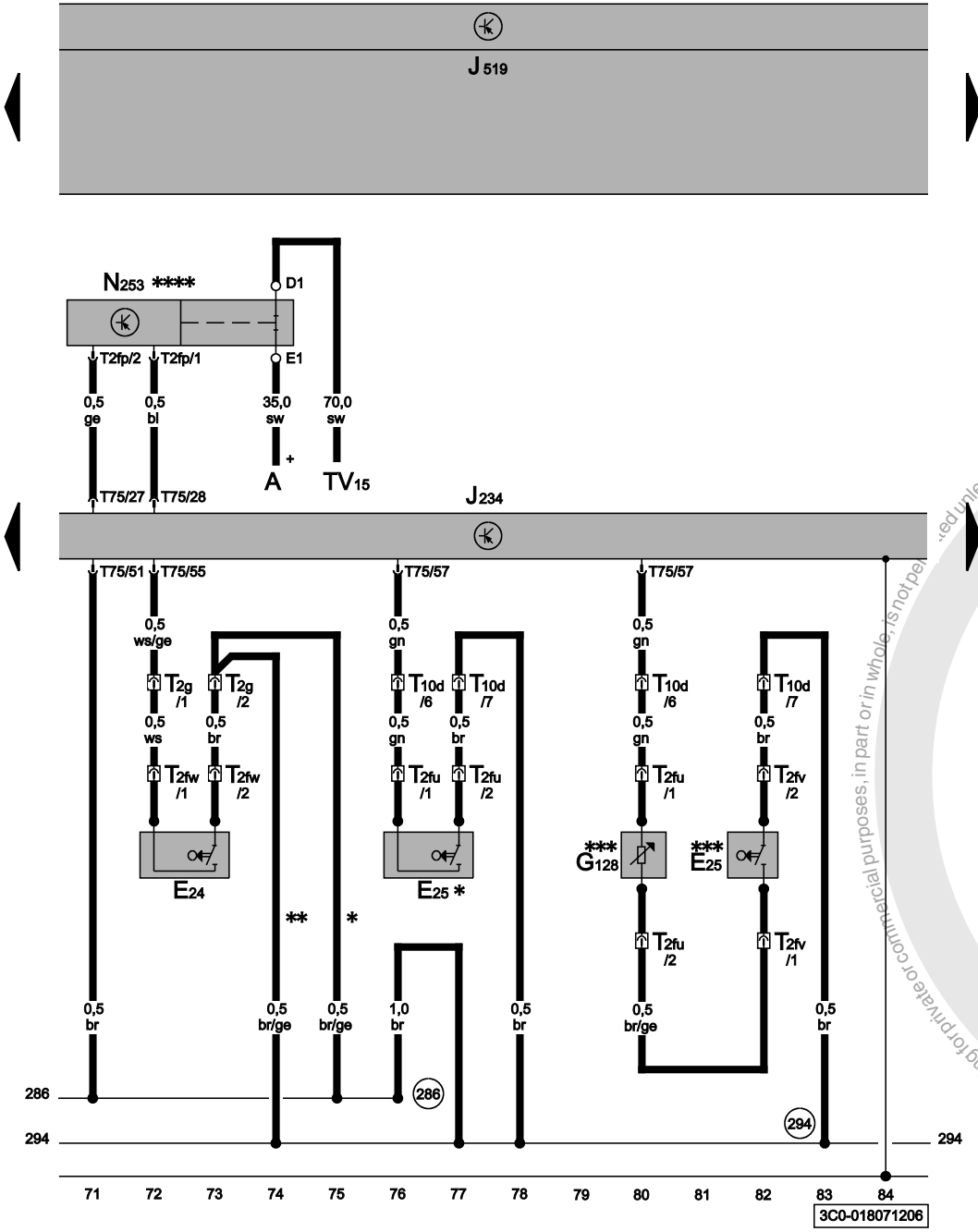


Airbag control unit, igniter for rear belt tensioner, igniter for belt tensioners on driver and front passenger side, igniter for side airbag

J234	Airbag control unit
J519	Onboard supply control unit
N153	Driver seat belt tensioner igniter 1
N154	Front passenger seat belt tensioner igniter 1
N196	Rear belt tensioner igniter on driver side
N197	Rear belt tensioner igniter on front passenger side
N201	Rear side airbag igniter on driver side
N202	Rear side airbag igniter on front passenger side
T3aa	3-pin connector, yellow
T3ac	3-pin connector, yellow
T3l	3-pin connector, blue
T3n	3-pin connector, blue
T3s	3-pin connector, yellow
T3w	3-pin connector, yellow
T75	75-pin connector
286	Earth connection 8, in interior wiring harness
294	Earth connection 9, in interior wiring harness
*	From May 2005
**	Up to May 2005
***	Only with rear side airbag
****	Only with belt tensioners

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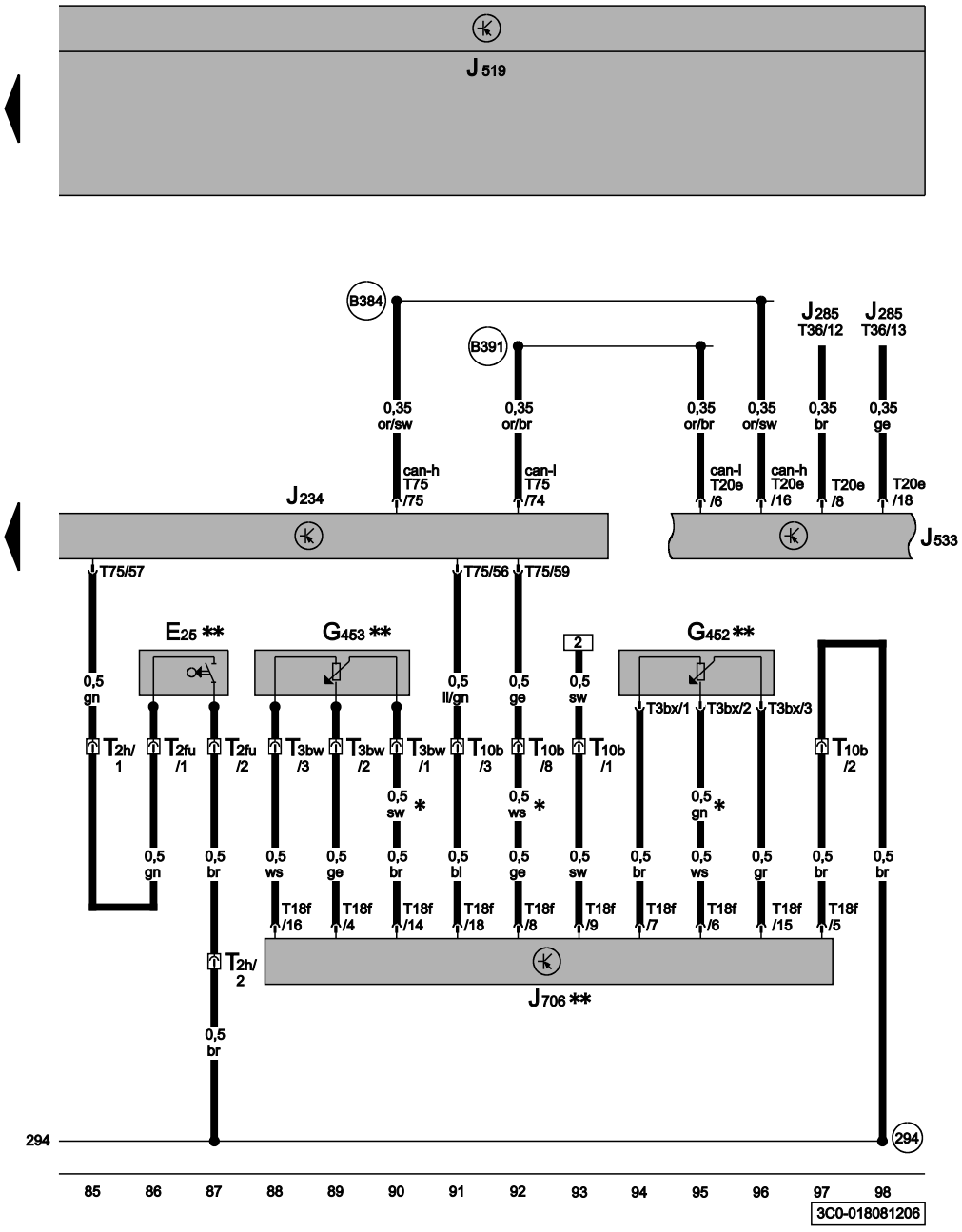


Airbag control unit, belt switch, seat occupied sensor front passenger side, igniter for battery isolator

A	Battery
E24	Driver side belt switch
E25	Front passenger side belt switch
G128	Seat occupied sensor, front passenger side
J234	Airbag control unit
J519	Onboard supply control unit
N253	Battery isolation igniter
T2g	2-pin connector, black, coupling point driver side, under seat
T2fp	2-pin connector, purple
T2fu	2-pin connector, blue, under front passenger seat
T2fv	2-pin connector, black, under front passenger seat
T2fw	2-pin connector, in driver seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
T75	75-pin connector
TV15	Wiring connector
286	Earth connection 8, in interior wiring harness
294	Earth connection 9, in interior wiring harness
*	Not for American markets, discontinued from May 2006
**	Only American markets
***	Only for Mexico
****	Only engine codes AXZ and BLV

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Airbag control unit, belt switch front passenger side, seat occupied recognition control unit, data bus diagnosis interface

E25	Front passenger side belt switch
G452	Pressure sensor for seat occupied recognition
G453	Seat belt force sensor for seat occupied recognition
J234	Airbag control unit
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J706	Seat occupied recognition control unit, under driver seat
T2h	2-pin connector, yellow, coupling point driver side, under seat
T2fu	2-pin connector, in front passenger seat
T3bw	3-pin connector, in front passenger seat
T3bx	3-pin connector, in front passenger seat
T10b	10-pin connector, black, coupling point front passenger side, under seat
T18f	18-pin connector
T20e	20-pin connector
T36	36-pin connector
T75	75-pin connector
294	Earth connection 9, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Applicable from May 2005
**	Only American markets, not for Mexico

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Convenience system

⇒ **Electrically adjustable and heated exterior mirrors**
⇒ **Anti-theft alarm system with interior monitoring**
⇒ **Window regulator front and rear**
⇒ **Sunroof**
⇒ **Exterior mirror turn signal**
⇒ **Central locking with remote control**

from November 2004

Notes:

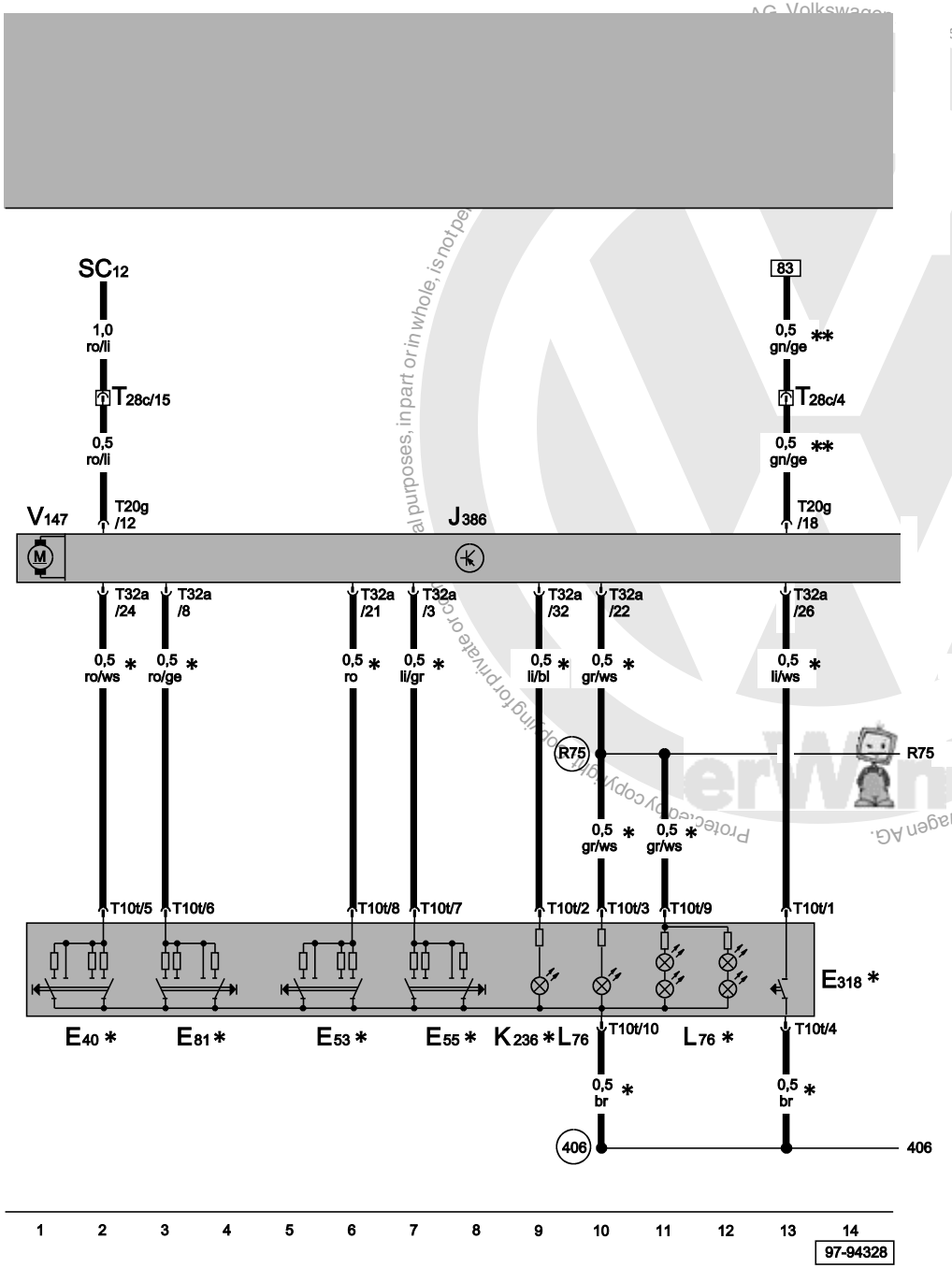
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ guided fault finding

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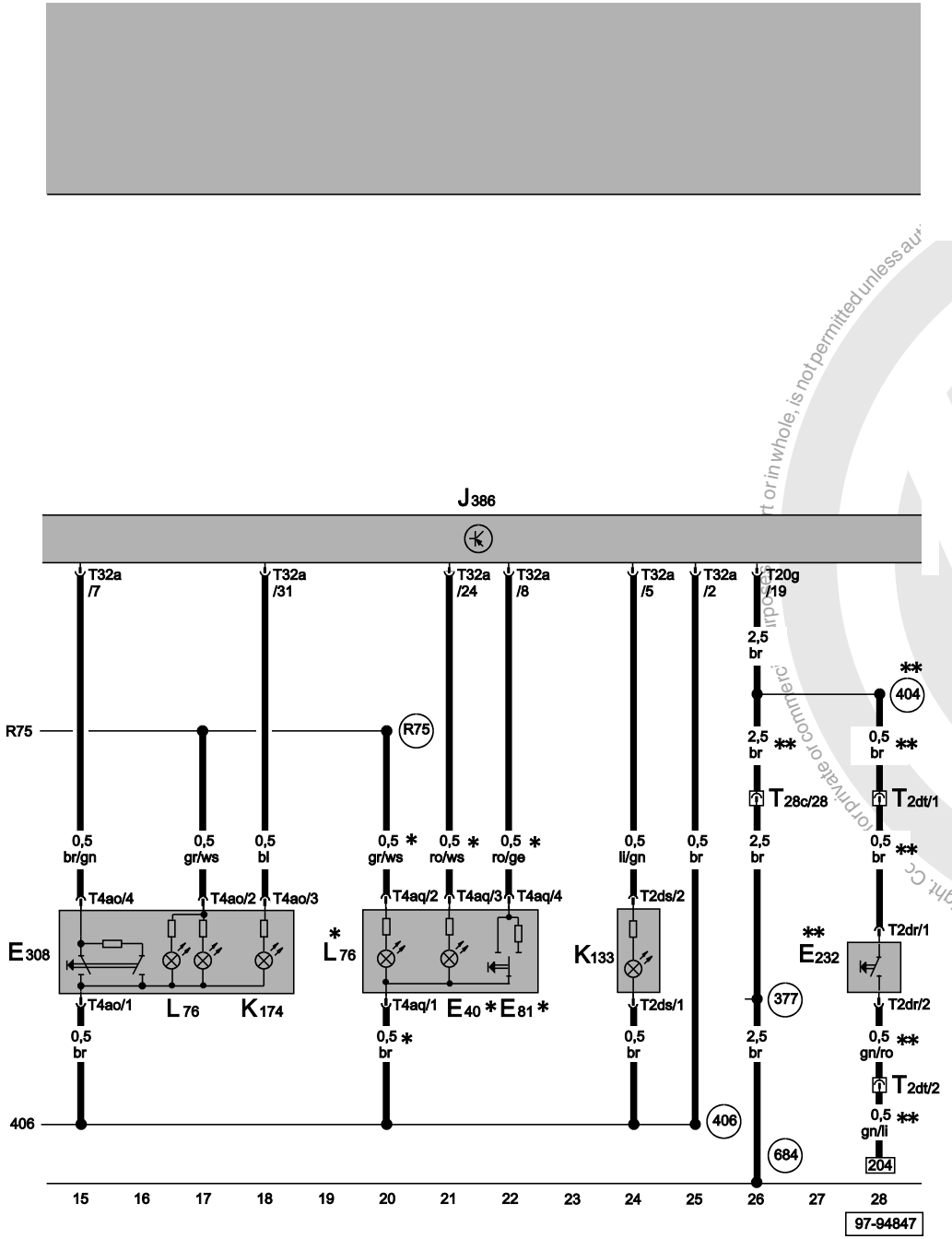


Driver door control unit, front left window regulator switch, rear left window regulator switch and rear right, in driver door

E40	Front left window regulator switch
E53	Rear left window regulator switch, in driver door
E55	Rear right window regulator switch, in driver door
E81	Front right window regulator switch in driver door
E318	Childproof lock button
J386	Driver door control unit
K236	Warning light for activated child-proof lock
L76	Button illumination bulb
SC12	Fuse 12 on fuse holder C
T10t	10-pin connector *
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
T32a	32-pin connector
V147	Driver side window regulator motor
406	Earth connection 3, in driver door wiring harness
R75	Connection (58d) 1, in door control unit wiring harness
*	only models with rear electric window regulator
**	american markets only

ws	=	white
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gr	=	grey
li	=	purple
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Driver door control unit, central locking deadlock function warning lamp, driver side interior locking warning lamp

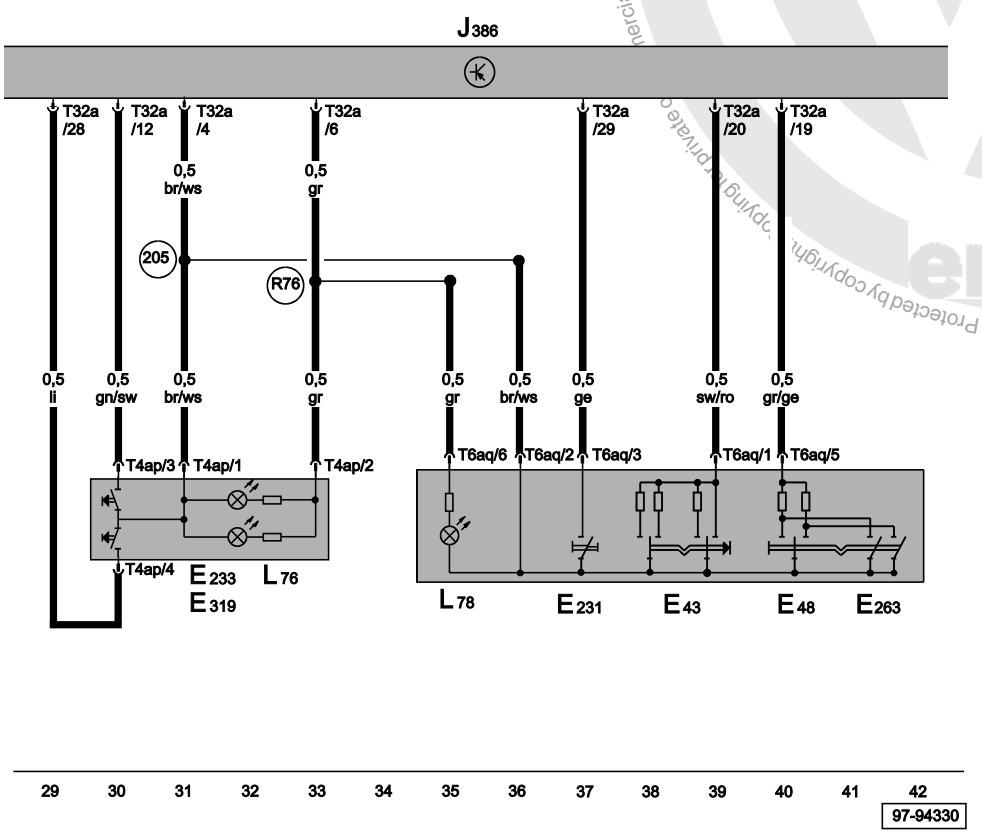
E40	Front left window regulator switch
E81	Front right window regulator switch in driver door
E232	Key operated switch to block release of rear lid remote
E308	Driver side interior locking button
J386	Driver door control unit
K133	Central locking deadlock function warning lamp
K174	Driver side interior locking warning lamp
L76	Button illumination bulb
T2dr	2-pin connector
T2ds	2-pin connector
T2dt	2-pin connector, in driver door
T4ao	4-pin connector
T4aq	4-pin connector
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
T32a	32-pin connector
377	Earth connection 12, in main wiring harness
404	Earth connection 4, in driver door wiring harness
406	Earth connection 3, in driver door wiring harness
684	Earth point, on front of left longitudinal member
R75	Connection (58d) 1, in door control unit wiring harness
*	only models with rear mechanical window regulator
**	american markets only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

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Driver door control unit, mirror adjustment switch, rear lid remote release button, fuel tank flap release button

E43	Mirror adjustment switch
E48	Mirror adjustment change-over switch
E231	Exterior mirror heater button
E233	Rear lid remote release button
E263	Mirror fold-in feature system switch
E319	Fuel tank flap release button
J386	Driver door control unit
L76	Button illumination bulb
L78	Mirror adjustment switch illumination bulb
T4ap	4-pin connector
T6aq	6-pin connector
T32a	32-pin connector
(205)	Earth connection, in driver door wiring harness
(R76)	Connection (58d) 2, in door control unit wiring harness

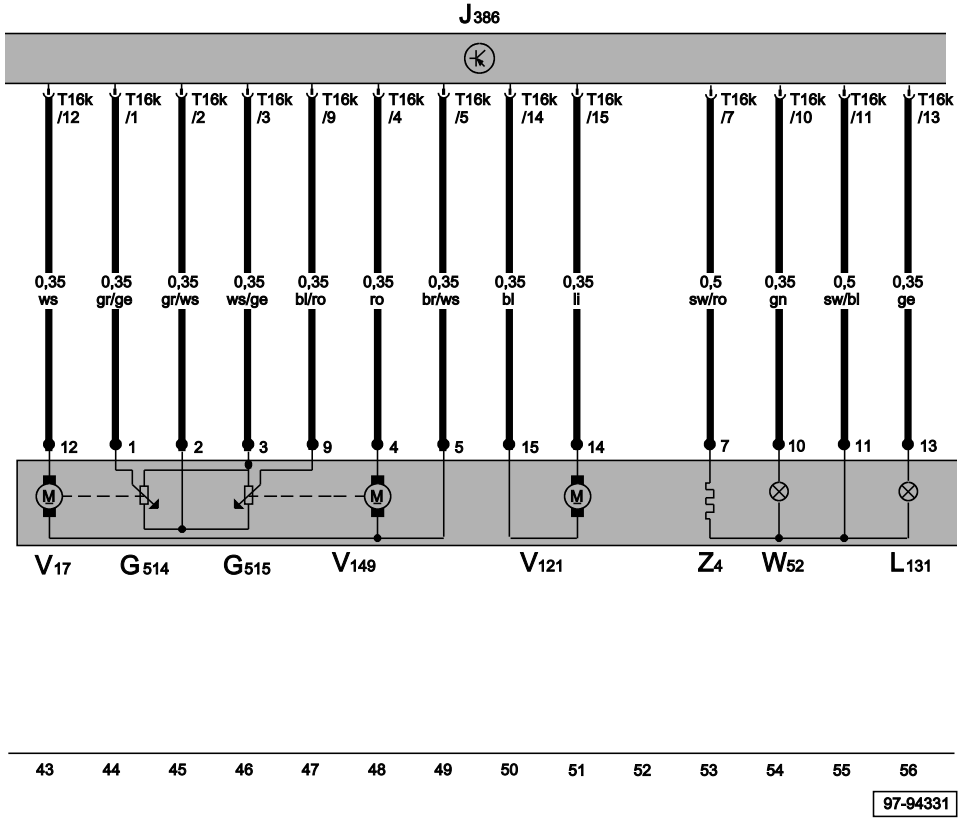


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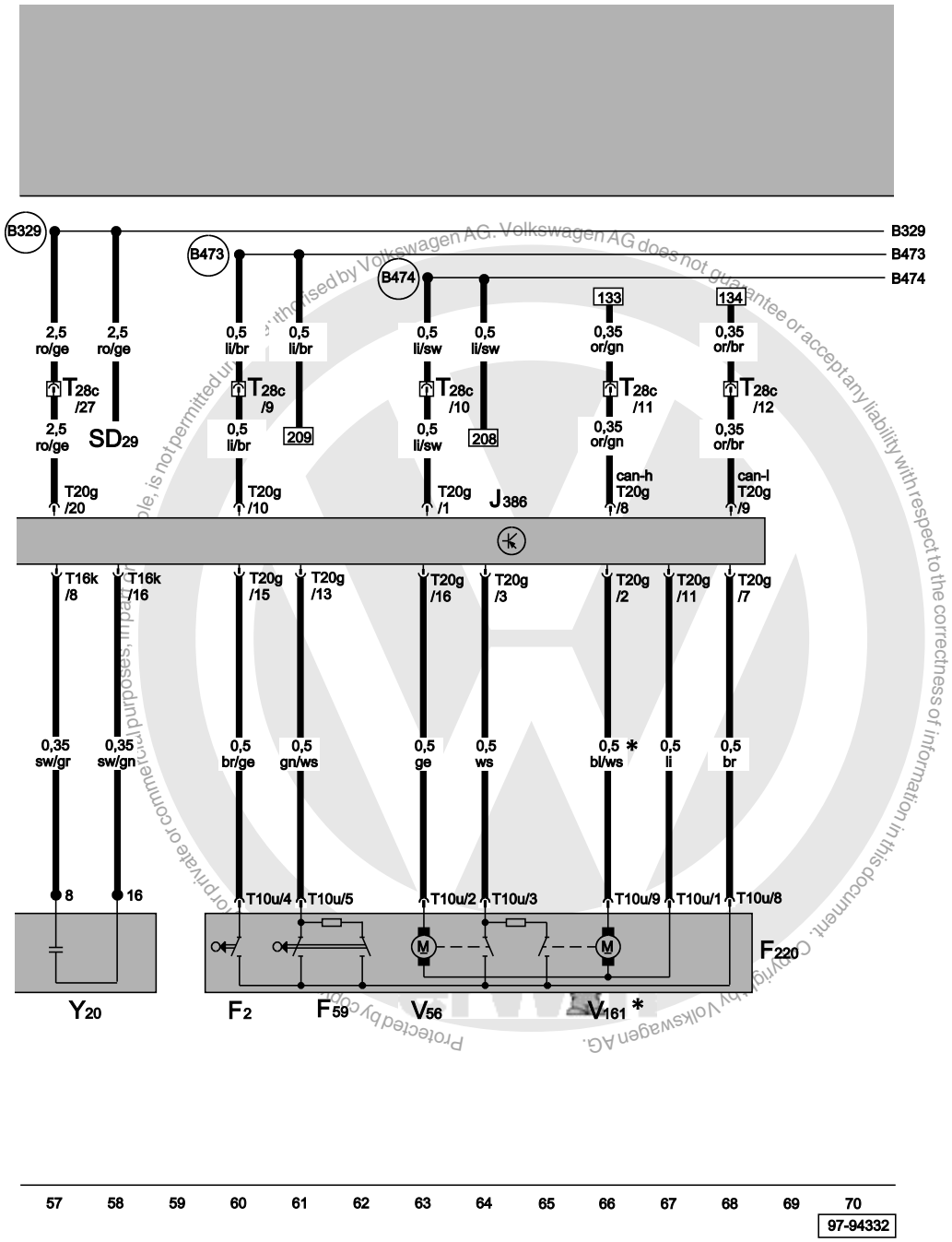
Driver door control unit, mirror adjustment motor and folding mirror

G514	Potentiometer for horizontal adjustment of driver side mirror
G515	Potentiometer for vertical adjustment of driver side mirror
J386	Driver door control unit
L131	Driver side exterior mirror turn signal bulb
T16k	16-pin connector
V17	Driver side mirror adjustment motor
V121	Driver side folding mirror motor
V149	Driver side mirror adjustment motor
W52	Driver side entry light in exterior mirror
Z4	Driver side heated exterior mirror



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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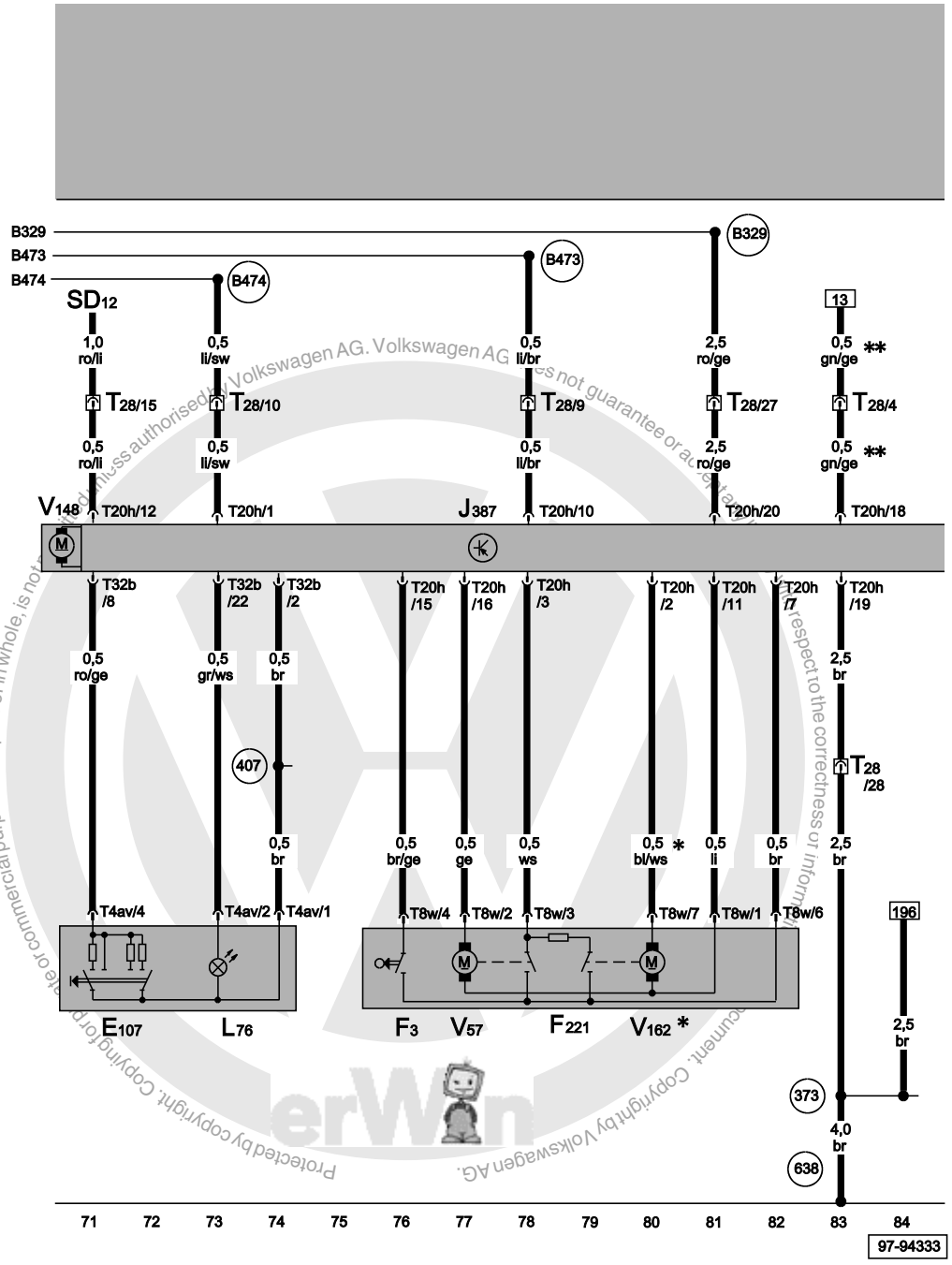


Driver door control unit, door contact switch, central locking lock unit, driver side automatic anti-dazzle exterior mirror

F2	Driver door contact switch
F59	Driver side central locking switch
F220	Driver side central locking lock unit
J386	Driver door control unit
SD29	Fuse 29 on fuse holder D
T10u	10-pin connector
T16k	16-pin connector
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
V56	Driver door central locking motor
V161	Driver door central locking deadlock function motor
Y20	Driver side automatic anti-dazzle exterior mirror
B329	Positive connection 15 (30a), in main wiring harness
B473	Connection 9, in main wiring harness
B474	Connection 10, in main wiring harness
*	not for american markets

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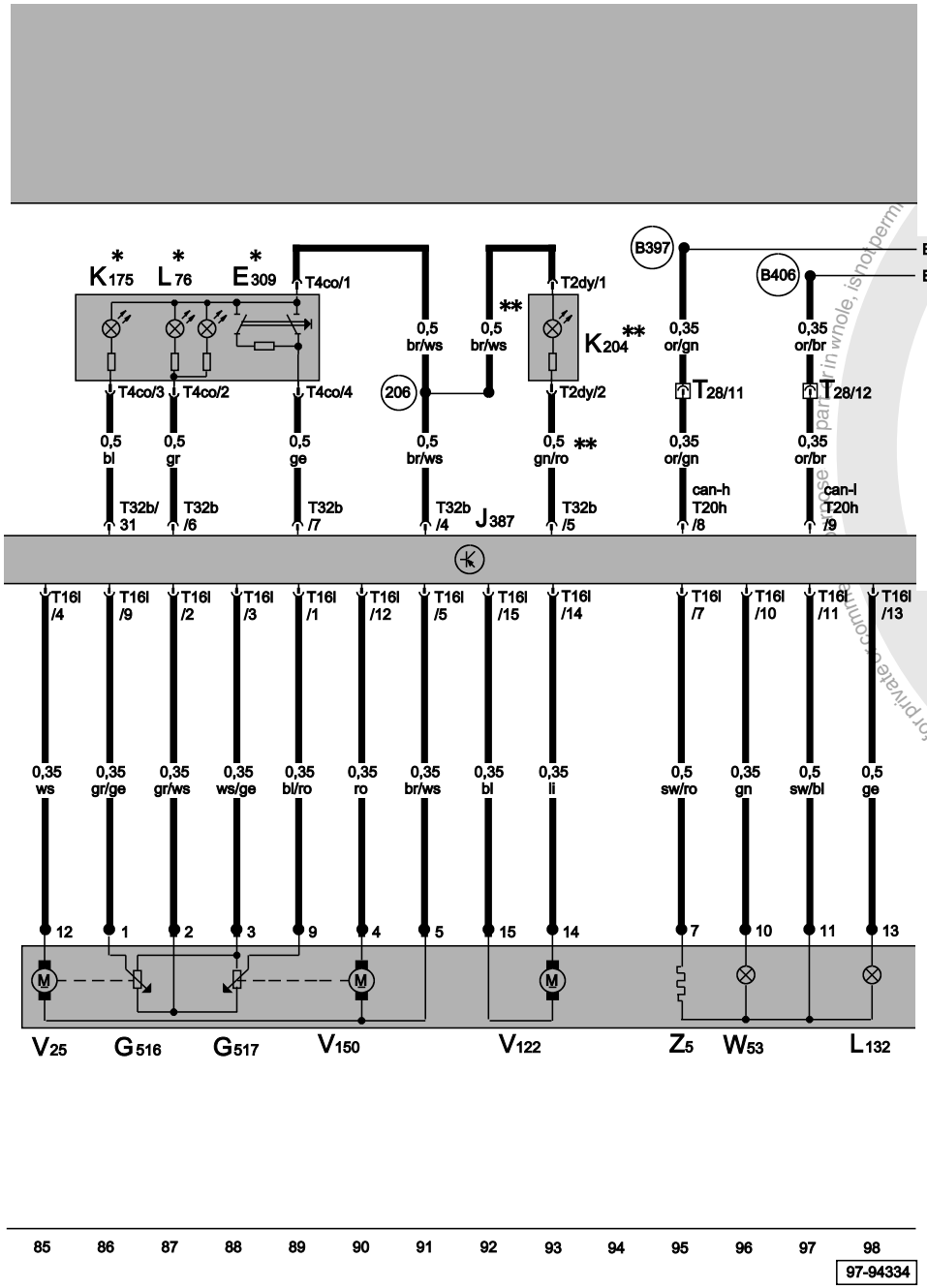


Front passenger side door control unit, front passenger side central locking lock unit, window regulator switch

E107	Window regulator switch in front passenger door
F3	Front passenger door contact switch
F221	Front passenger side central locking lock unit
J387	Front passenger door control unit
L76	Button illumination bulb
SD12	Fuse 12 on fuse holder D
T4av	4-pin connector
T8w	8-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T32b	32-pin connector
V57	Front passenger door central locking motor
V148	Front passenger side window regulator motor
V162	Front passenger door central locking deadlock function motor
373	Earth connection 8, in main wiring harness
407	Earth connection 3, in front passenger side door wiring harness
638	Earth point, right A-pillar
B329	Positive connection 15 (30a), in main wiring harness
B473	Connection 9, in main wiring harness
B474	Connection 10, in main wiring harness
*	not for american markets
**	american markets only

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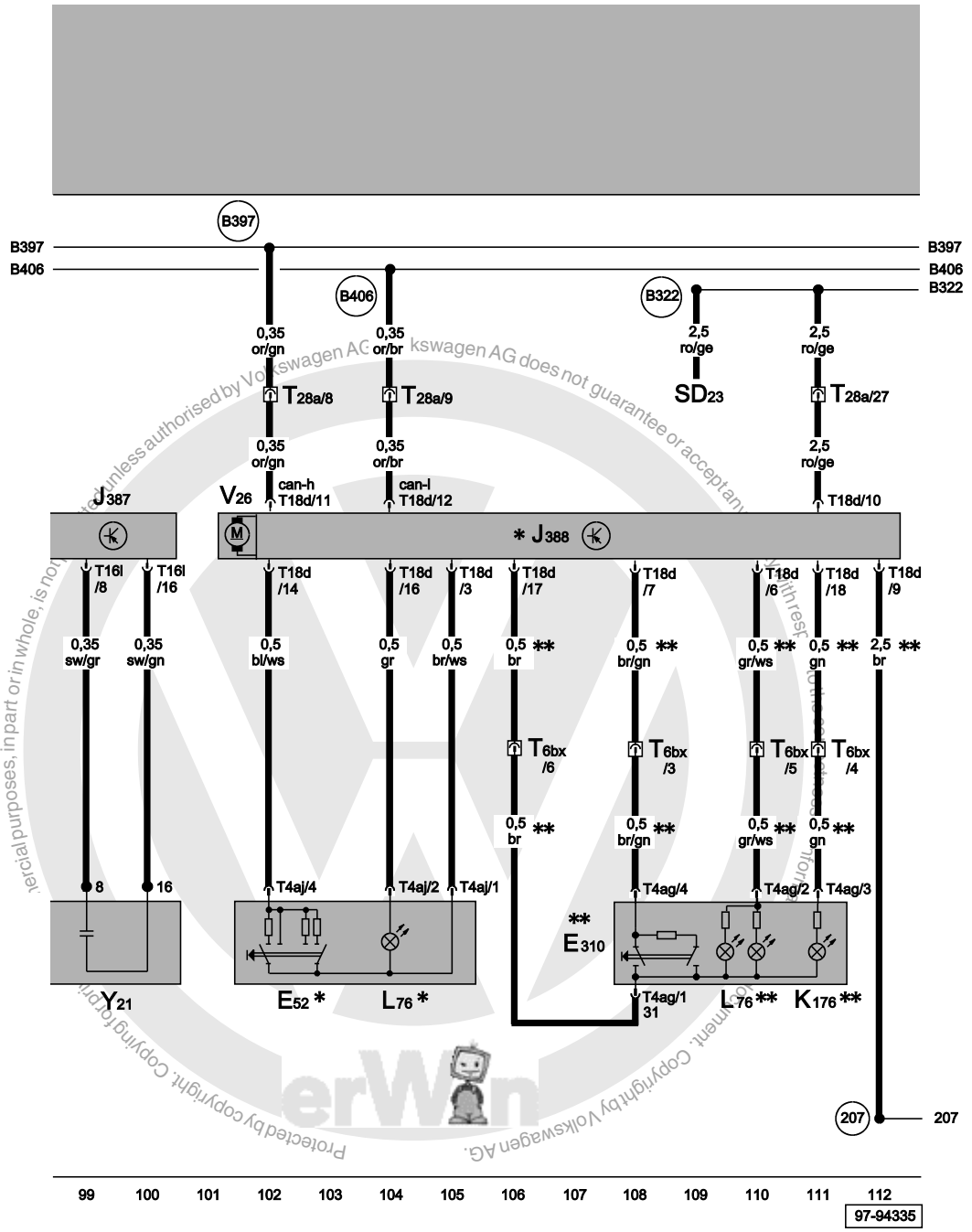


Front passenger door control unit, front passenger side interior locking button for central locking system

E309	Front passenger side interior locking button
G516	Potentiometer for horizontal adjustment of front passenger side mirror
G517	Potentiometer for vertical adjustment of front passenger side mirror
J387	Front passenger door control unit
K175	Front passenger side interior locking warning lamp
K204	Central locking deadlock function warning lamp on front passenger side
L76	Button illumination bulb
L132	Front passenger side exterior mirror turn signal bulb
T2dy	2-pin connector
T4co	4-pin connector
T16l	16-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T32b	32-pin connector
V25	Front passenger side mirror adjustment motor
V122	Front passenger side folding mirror motor
V150	Front passenger side mirror adjustment motor
W53	Front passenger side entry light in exterior mirror
Z5	Front passenger side heated exterior mirror
206	Earth connection, in door wiring harness, front passenger side
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	not for american markets
**	american markets only

ws	=	white
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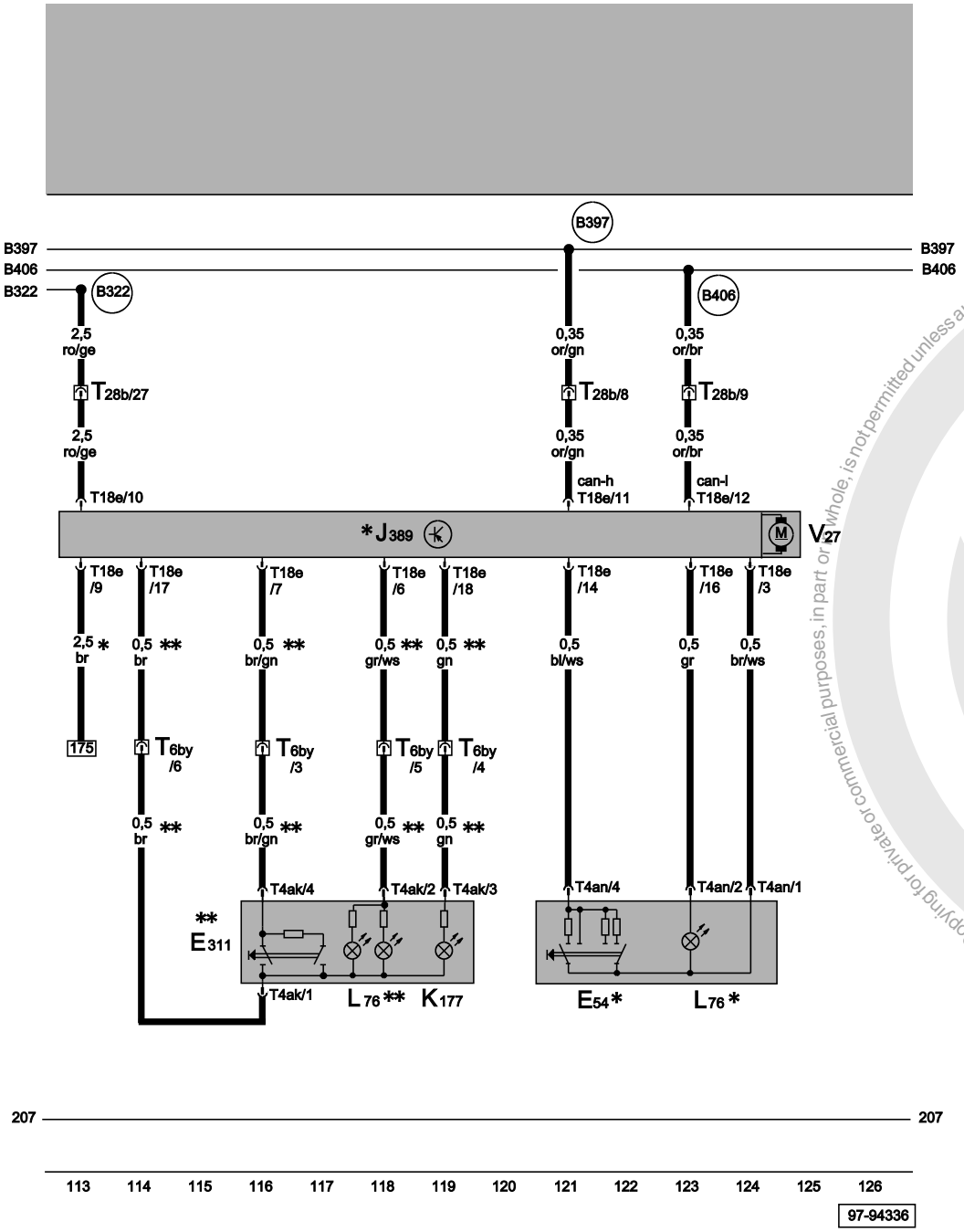


Rear left door control unit, button illumination bulb, rear left window regulator switch, in door, front passenger side automatic anti-dazzle exterior mirror

E52	Window regulator switch
E310	Rear left interior locking button for central locking system
J387	Front passenger door control unit
J388	Rear left door control unit
K176	Rear left interior locking warning lamp
L76	Button illumination bulb
SD23	Fuse 23 on fuse holder D
T4ag	4-pin connector
T4aj	4-pin connector
T6bx	6-pin connector, in rear left door
T16l	16-pin connector
T18d	18-pin connector
T28a	28-pin connector, coupling point, left B-pillar
V26	Rear left window regulator motor
Y21	Front passenger side automatic anti-dazzle exterior mirror
207	Earth connection, in rear left door wiring harness
B322	Positive connection 8 (30a), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	only models with rear electric window regulator
**	not with all levels of equipment

ws	=	white
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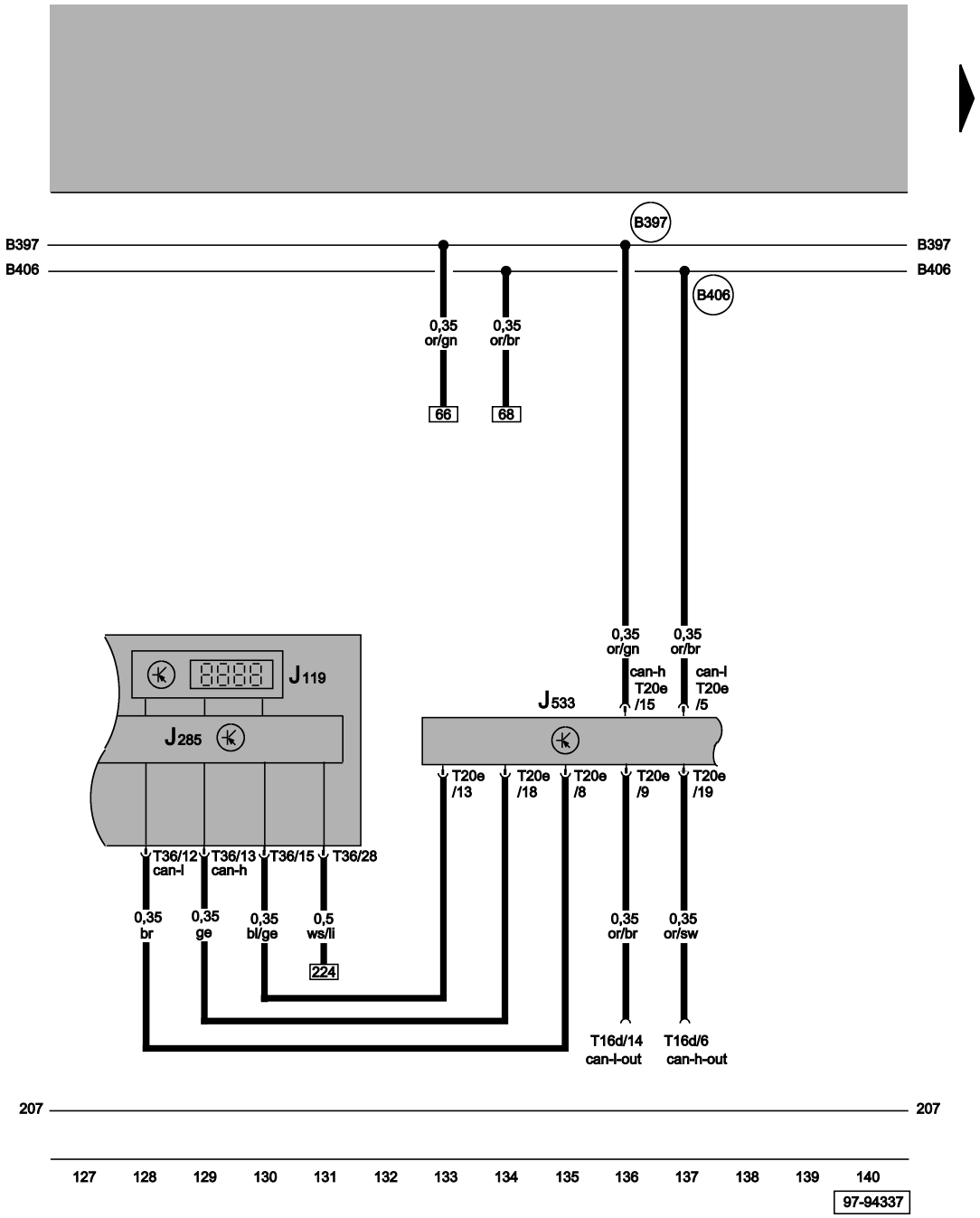


Rear right door control unit, button illumination bulb, rear right window regulator switch, in door

E54	Rear right window regulator switch, in door
E311	Rear right interior locking button for central locking system
J389	Rear right door control unit
K177	Rear right interior locking warning lamp
L76	Button illumination bulb
T4ak	4-pin connector
T4an	4-pin connector
T6by	6-pin connector, in rear right door
T18e	18-pin connector
T28b	28-pin connector, coupling point, right B-pillar
V27	Rear right window regulator motor
B322	Positive connection 8 (30a), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	only models with rear electric window regulator
**	not with all levels of equipment

ws	=	white
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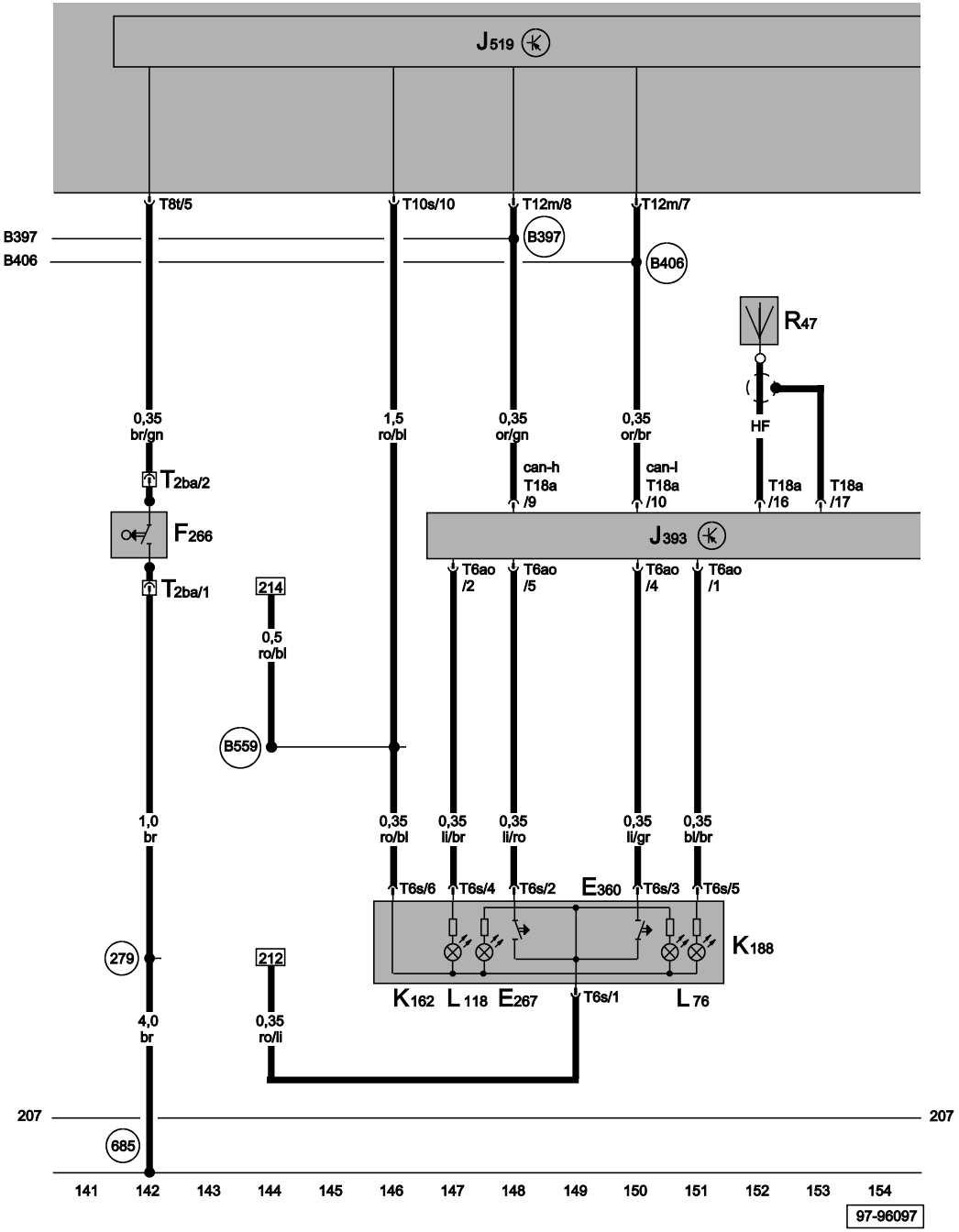


Dash panel insert, multifunction display, data bus diagnostic interface, self-diagnosis connection

J119	Multifunction display
J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T36	36-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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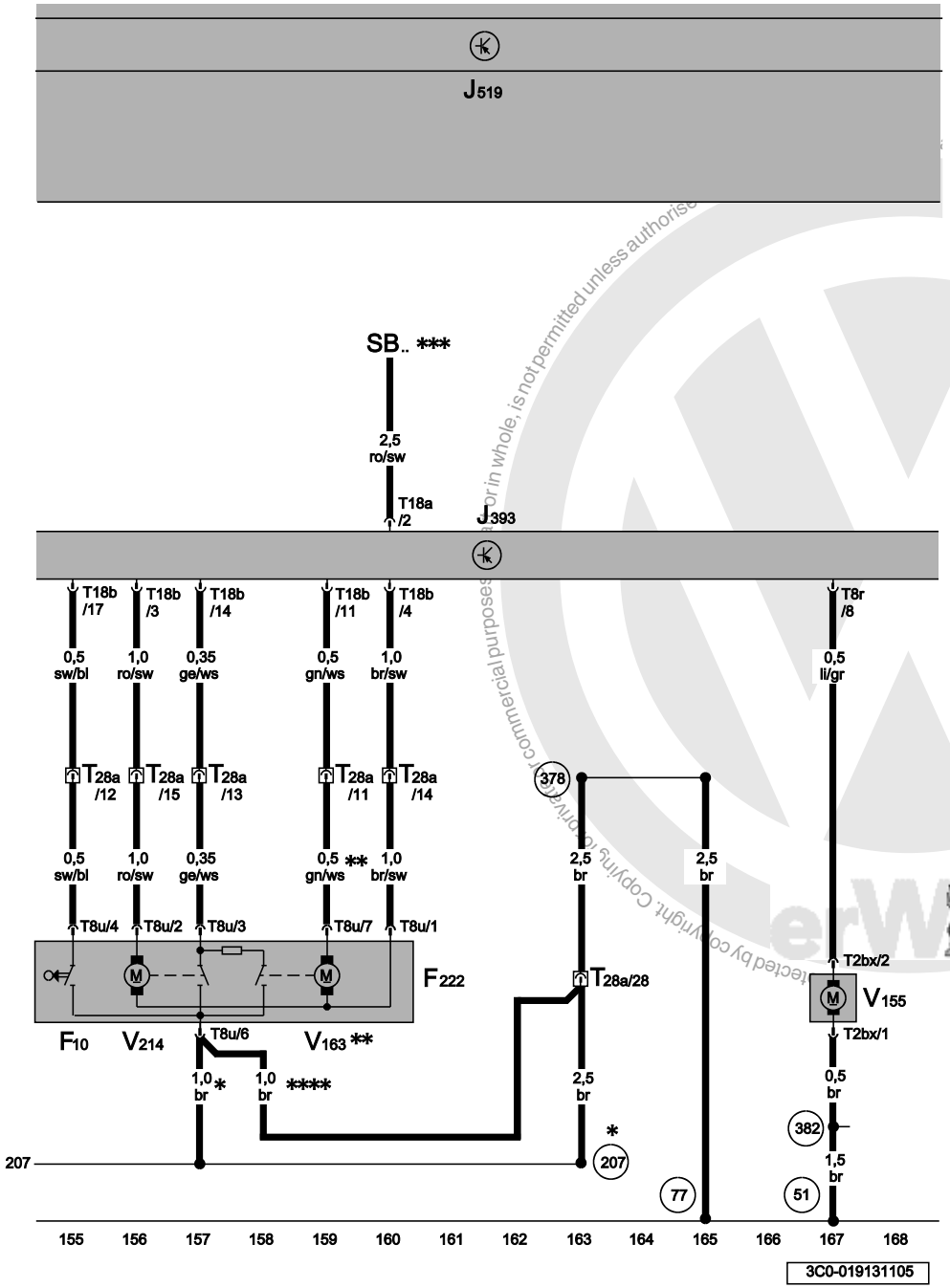
Convenience system central control unit, bonnet contact switch, interior monitoring deactivation switch

E267	Interior monitoring deactivation switch
E360	Deactivation button for vehicle inclination sender
F266	Bonnet contact switch
J393	Convenience system central control unit
J519	Onboard supply control unit
K162	Interior monitoring off warning lamp
K188	Vehicle inclination sender warning lamp
L76	Button illumination bulb
L118	Deactivation of interior monitoring system switch illumination bulb
R47	Central locking and anti-theft alarm system aerial, right dash panel
T2ba	2-pin connector, black, behind right headlight
T6ao	6-pin connector
T6s	6-pin connector
T8t	8-pin connector, black
T10s	10-pin connector, black
T12m	12-pin connector, black
T18a	18-pin connector
279	Earth connection 5, in interior wiring harness
685	Earth point 1, on front of right longitudinal member
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B559	Positive connection 1 (30g), in main wiring harness

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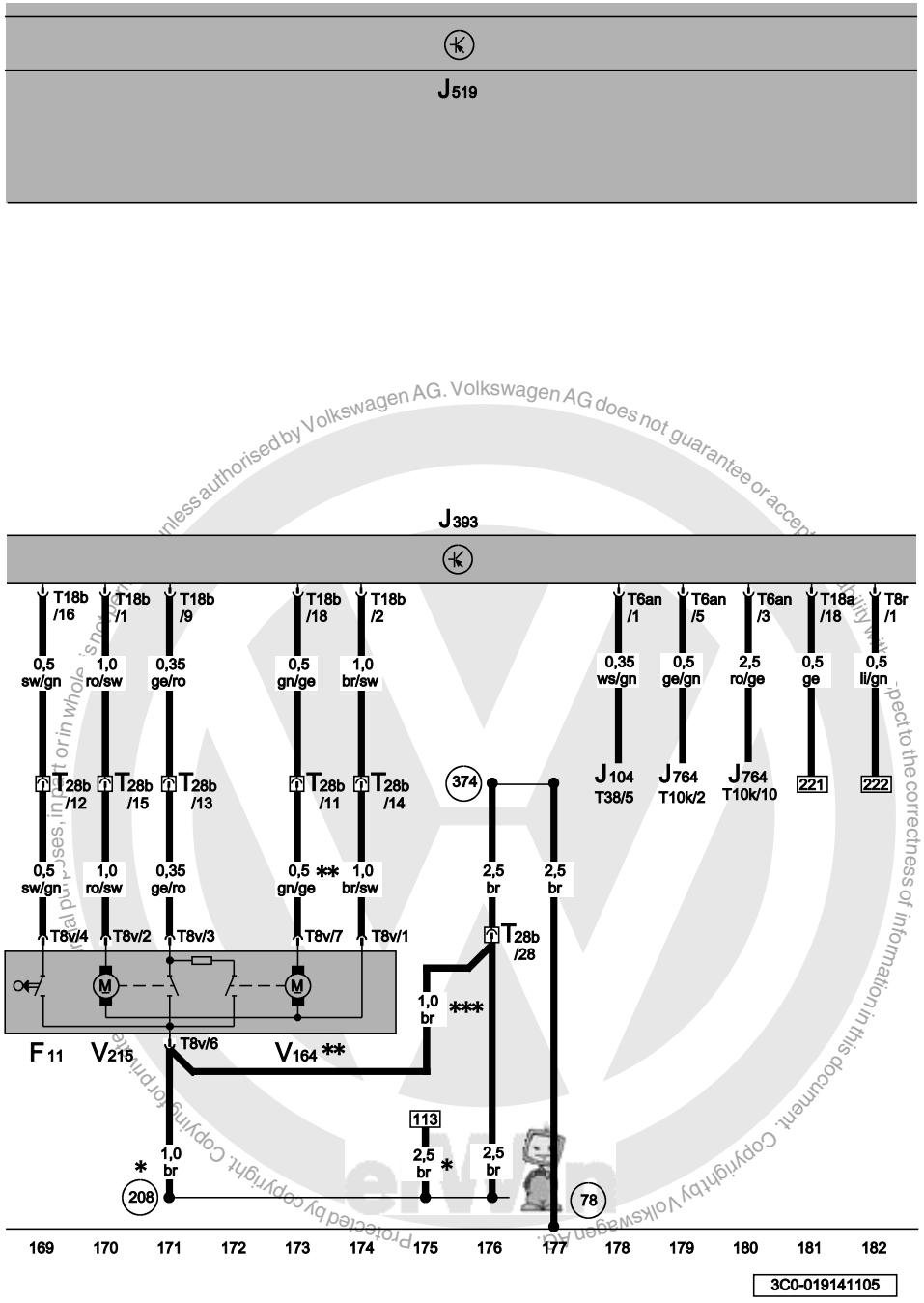
Convenience system central control unit, rear left door contact switch, rear left central locking lock unit



F10	Rear left door contact switch
F222	Rear left central locking lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
SB	Fuse on fuse holder B
T2bx	2-pin connector
T8r	8-pin connector
T8u	8-pin connector
T18a	18-pin connector
T18b	18-pin connector
T28a	28-pin connector, coupling point, left B-pillar
V155	Tank filler flap locking motor
V163	Rear left door central locking deadlock function motor
V214	Rear left door central locking motor, lock
51	Earth point, on right in luggage compartment
77	Earth point, lower part of left B-pillar
207	Earth connection, in rear left door wiring harness
378	Earth connection 13, in main wiring harness
382	Earth connection 17, in main wiring harness
*	only models with rear electric window regulator
**	not for american markets
***	Fuse location depends on equipment, see fitting locations
****	only models without rear electric window regulator

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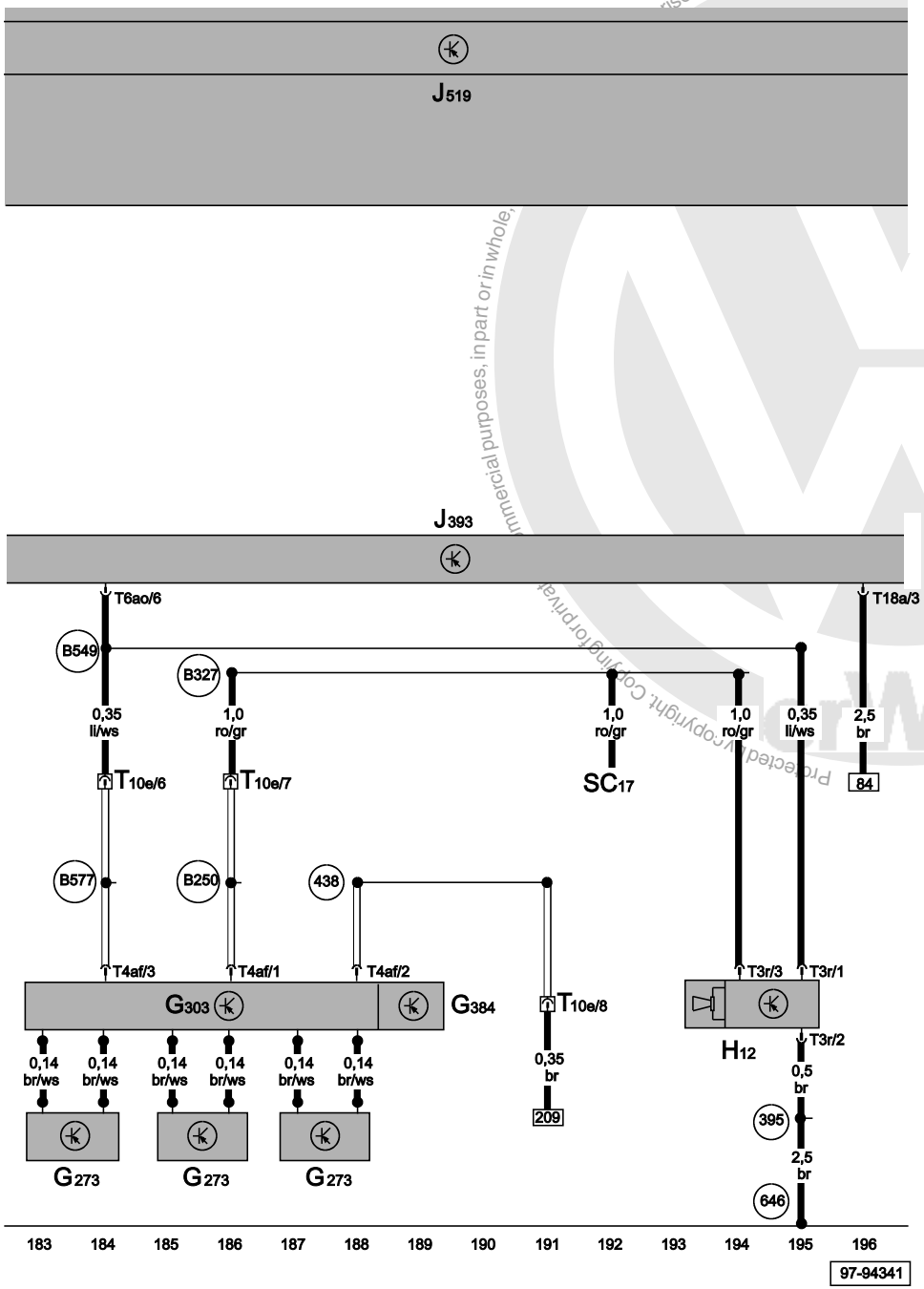


Convenience system central control unit, central locking lock unit

F11	Rear right door contact switch
F223	Rear right central locking lock unit
J104	ABS control unit
J393	Convenience system central control unit
J519	Onboard supply control unit
J764	Electronic steering column lock control unit
T6an	6-pin connector
T8r	8-pin connector
T8v	8-pin connector
T10k	10-pin connector
T18a	18-pin connector
T18b	18-pin connector
T28b	28-pin connector, coupling point, right B-pillar
T38	38-pin connector
V164	Rear right door central locking deadlock function motor
V215	Rear right door central locking motor, lock
78	Earth point, lower part of right B-pillar
208	Earth connection, in rear right door wiring harness
374	Earth connection 9, in main wiring harness
*	only models with rear electric window regulator
**	not for american markets
***	only models without rear electric window regulator

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Convenience system central control unit, vehicle inclination sender, alarm horn, interior monitor send and receive module 1

G273	Interior monitoring sensor
G303	Interior monitor send and receive module 1
G384	Vehicle inclination sender
H12	Alarm horn
J393	Convenience system central control unit
J519	Onboard supply control unit
SC17	Fuse 17 on fuse holder C
T3r	3-pin connector
T4af	4-pin connector
T6ao	6-pin connector
T10e	10-pin connector, blue, coupling point roof wiring harness
T18a	18-pin connector
395	Earth connection 30, in main wiring harness
438	Earth connection 3, in roof wiring harness
646	Earth point 2, on bulkhead
B250	Positive connection in roof wiring harness
B327	Positive connection 13 (30a), in main wiring harness
B549	Connection 2 (LIN bus), in main wiring harness
B577	Connection (LIN bus), in roof wiring harness
<fo:exter	Flat strip wire

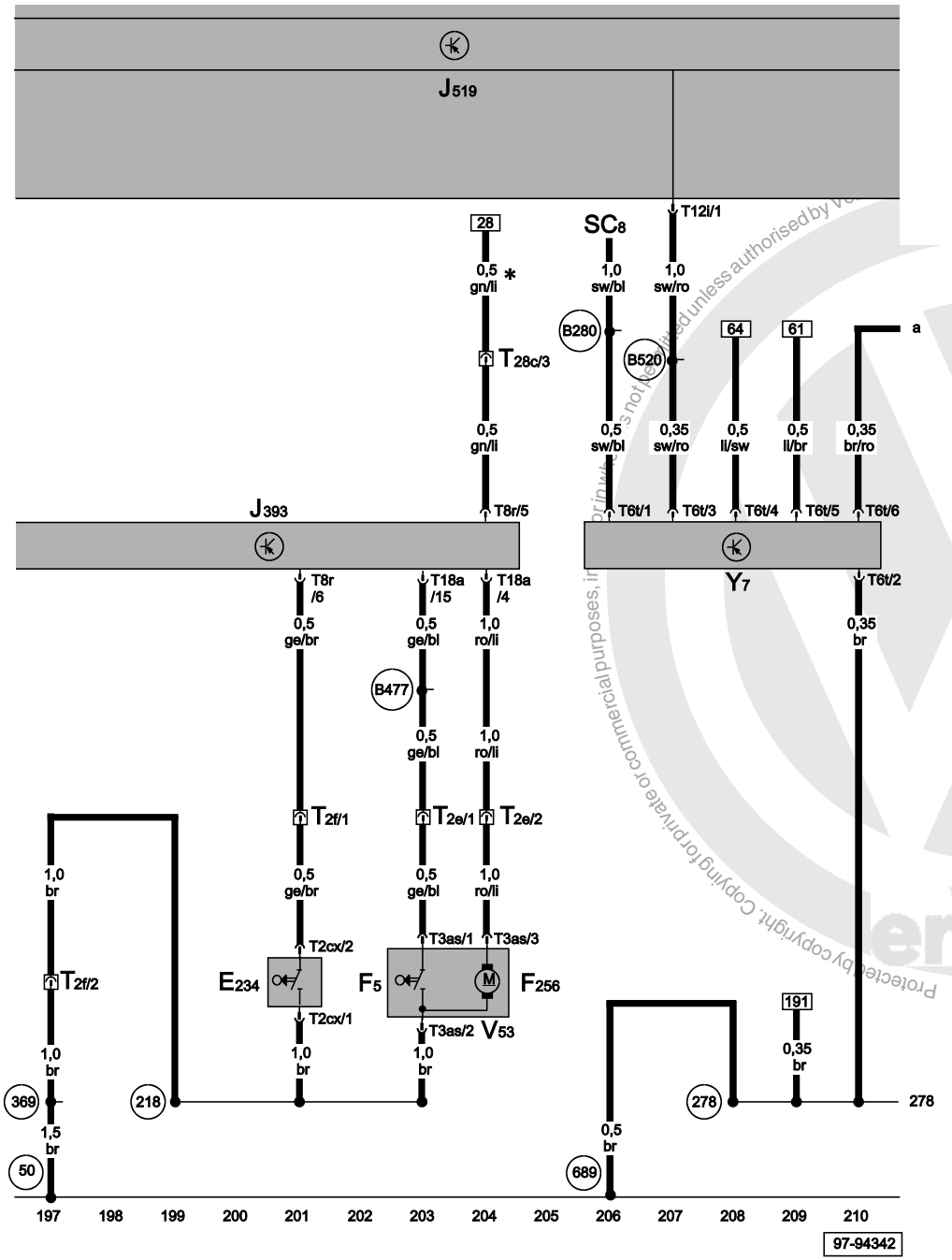
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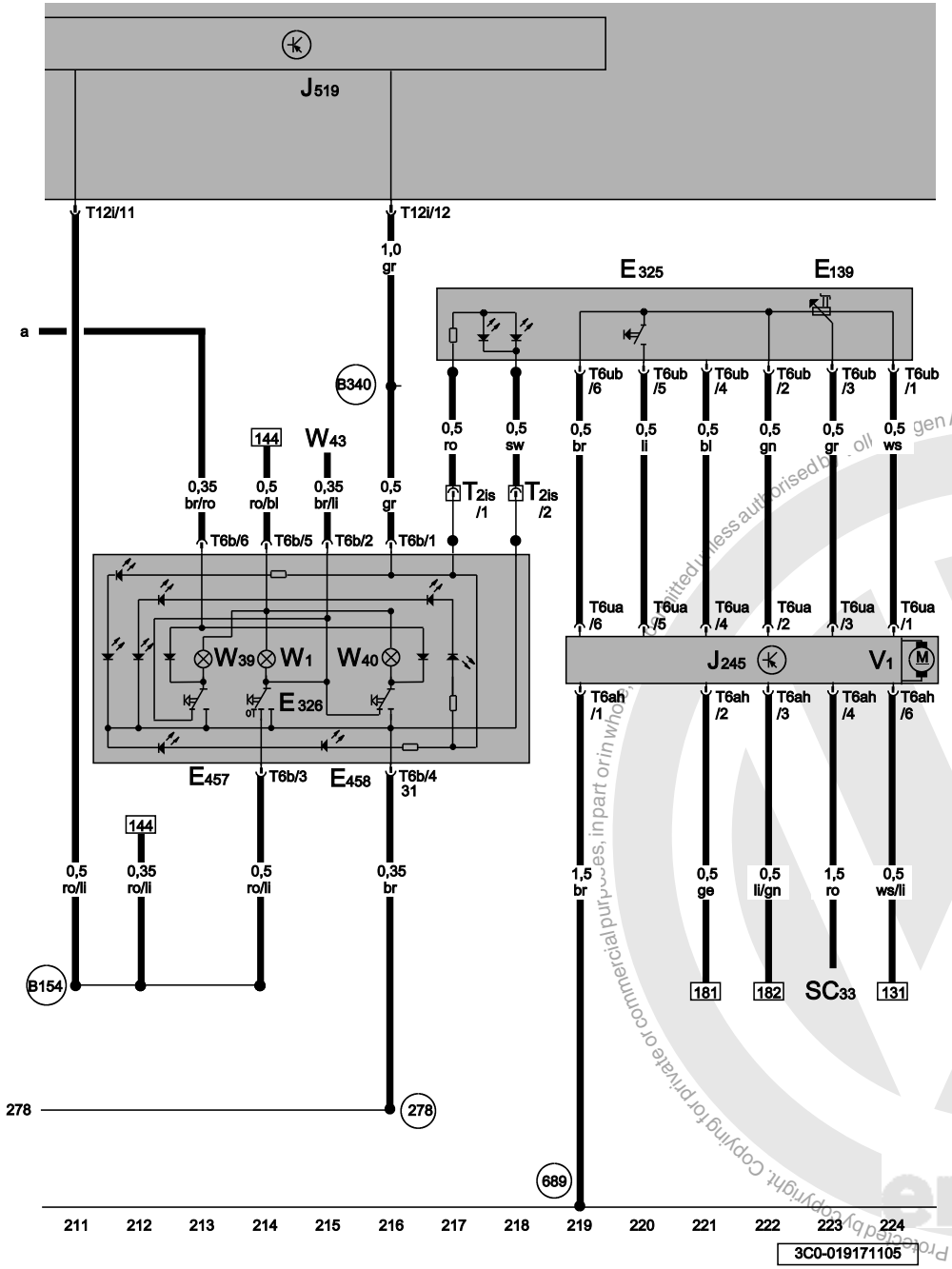


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gn = green
bl = blue
gr = grey
li = purple
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Convenience system central control unit, rear lid lock unit

E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
SC8	Fuse 8 on fuse holder C
T2cx	2-pin connector
T2e	2-pin connector
T2f	2-pin connector
T3as	3-pin connector
T6t	6-pin connector
T8r	8-pin connector
T12i	12-pin connector, black
T18a	18-pin connector
T28c	28-pin connector, coupling point, left A-pillar
V53	Rear lid central locking motor
Y7	Automatic anti-dazzle interior mirror
50	Earth point, on left in luggage compartment
218	Earth connection 1, in rear lid wiring harness
278	Earth connection 4, in interior wiring harness
369	Earth connection 4, in main wiring harness
689	Earth point, on centre front roof
B280	Positive connection 4 (15a), in main wiring harness
B477	Connection 13, in main wiring harness
B520	Connection (RL), in main wiring harness
*	american markets only

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Sliding sunroof adjustment control unit, sunroof button, sliding sunroof adjustment regulator

E139	Sliding sunroof adjustment regulator
E325	Sunroof button
E326	Front interior light button
E457	Driver side reading light button
E458	Front passenger side reading light button
J245	Sliding sunroof adjustment control unit
J519	Onboard supply control unit
SC33	Fuse 33 on fuse holder C
T2is	2-pin connector, black
T6ah	6-pin connector
T6b	6-pin connector
T6ua	6-pin connector
T6ub	6-pin connector
T12i	12-pin connector, black
V1	Sliding sunroof motor
W1	Front interior light
W39	Left centre reading light
W40	Right centre reading light
W43	Rear interior light
278	Earth connection 4, in interior wiring harness
689	Earth point, on centre front roof
B154	Connection 1 (DCt), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness

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6-speed automatic gearbox 09G

from November 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

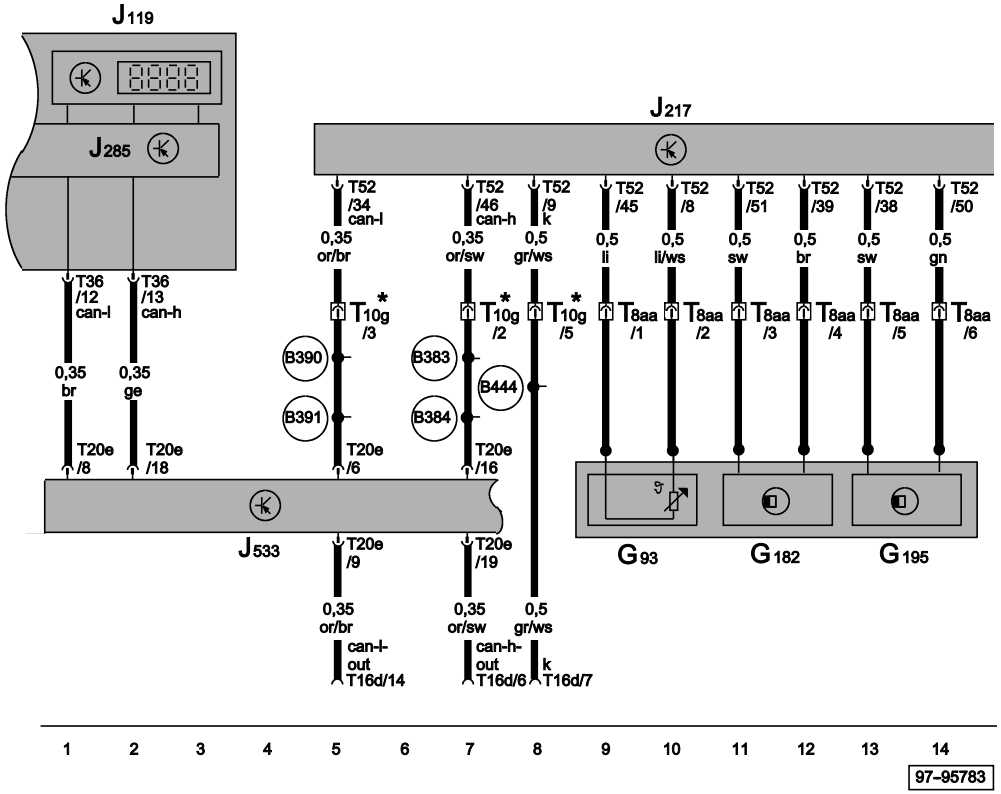
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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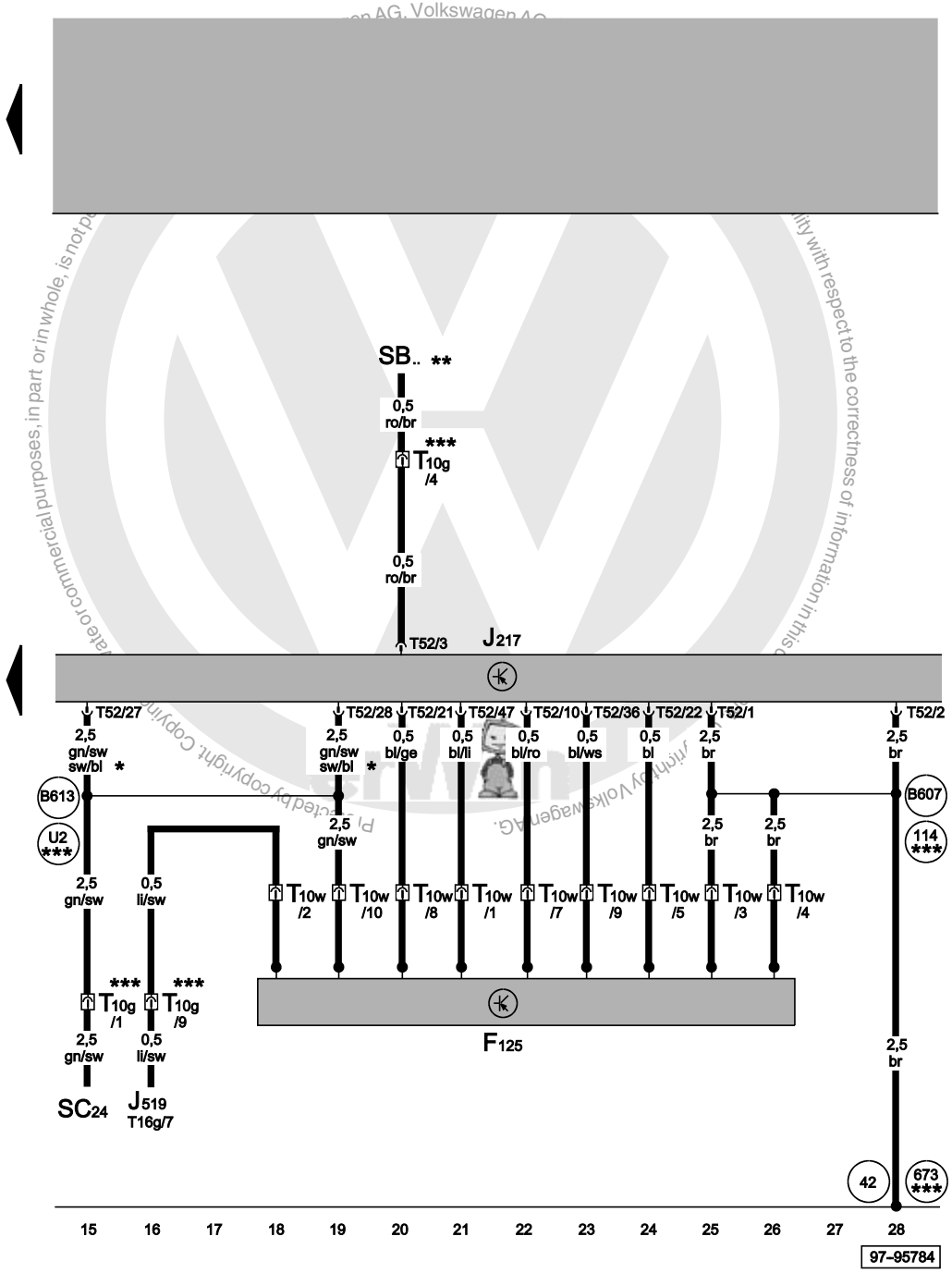


Automatic gearbox control unit, dash panel insert, data bus diagnostic interface, multifunction display, self-diagnosis connection

G93	Gearbox oil temperature sender
G182	Gearbox input speed sender
G195	Gearbox output speed sender
J119	Multifunction display
J217	Automatic gearbox control unit
J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
T8aa	8-pin connector, coupling point gearbox prewiring
T10g	10-pin connector, coupling point gearbox prewiring
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T36	36-pin connector
T52	52-pin connector
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	up May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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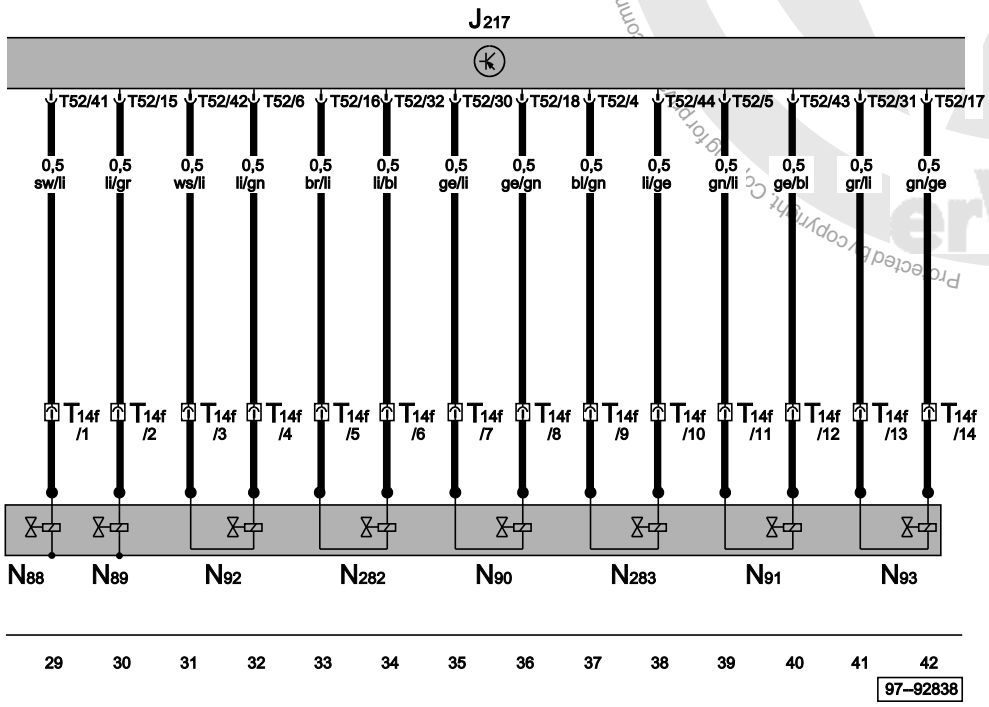
Automatic gearbox control unit, multifunction switch

F125	Multifunction switch
J217	Automatic gearbox control unit
J519	Onboard supply control unit
SB	Fuse B, see fuse concept
SC24	Fuse 24 on fuse holder
T10g	10-pin connector, coupling point gearbox prewiring
T10w	10-pin connector, on gearbox
T16g	16-pin connector
T52	52-pin connector
42	Earth point, next to steering column
114	Earth connection, in automatic gearbox wiring harness
673	Earth point 3, on front of left longitudinal member
B613	Connection 41, in main wiring harness
B607	Connection 3, in interior wiring harness
U2	Connection 1 (15), in automatic gearbox wiring harness
*	for models with engine code BKK only
**	Fuse location depends on equipment, see fitting locations
***	up May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

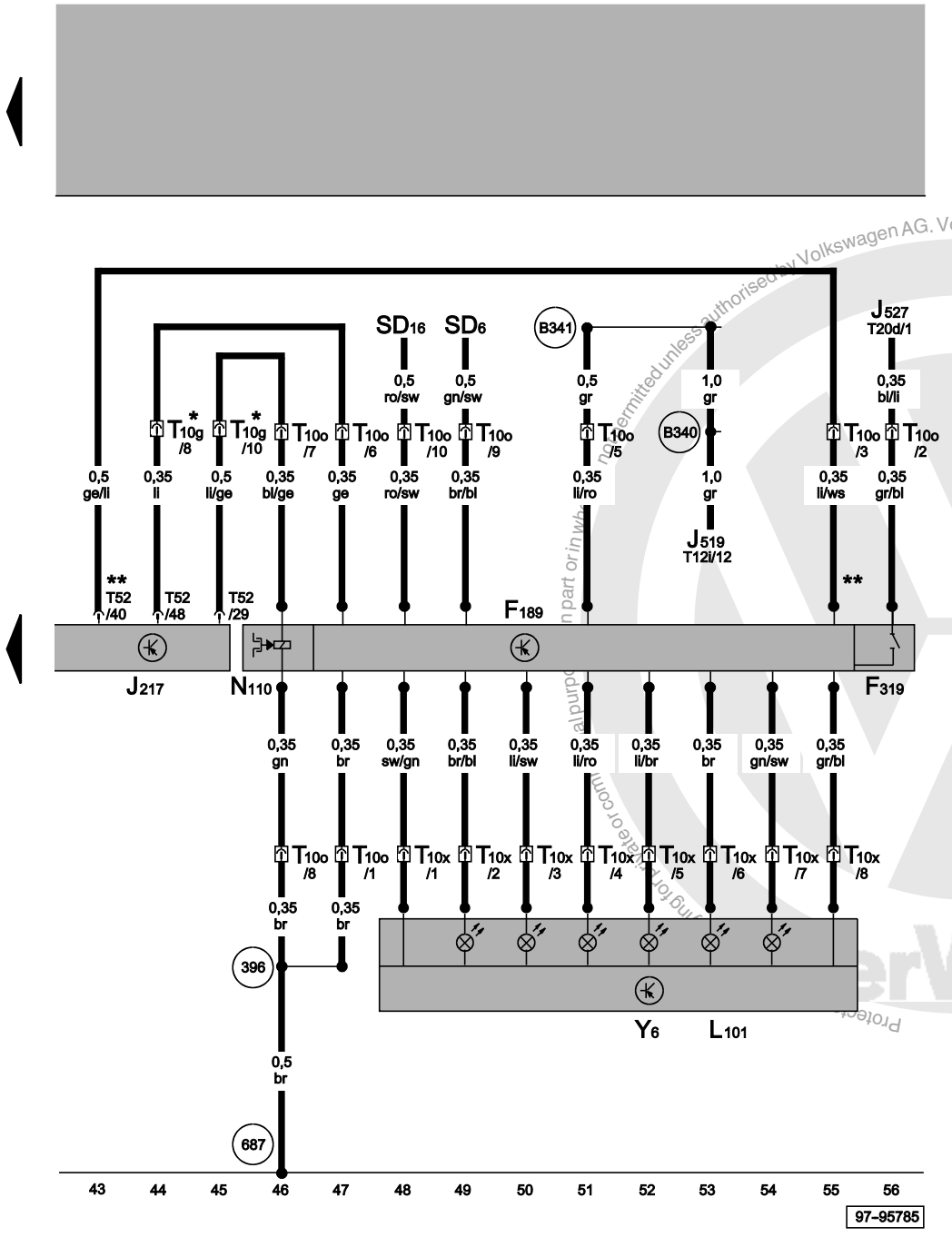
Automatic gearbox control unit, solenoid valves

J217	Automatic gearbox control unit
N88	Solenoid valve 1
N89	Solenoid valve 2
N90	Solenoid valve 3
N91	Solenoid valve 4
N92	Solenoid valve 5
N93	Solenoid valve 6
N282	Solenoid valve 9
N283	Solenoid valve 10
T14f	14-pin connector, on gearbox
T52	52-pin connector



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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Automatic gearbox control unit, Tiptronic switch, selector lever lock solenoid, selector lever position display

F189	Tiptronic switch
F319	Selector lever locked in position P switch
J217	Automatic gearbox control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
L101	Selector lever display illumination bulb
N110	Selector lever lock solenoid
SD6	Fuse 6 on fuse holder
SD16	Fuse 16 on fuse holder
T10g	10-pin connector, coupling point gearbox prewiring
T10o	10-pin connector, on gearbox
T10x	10-pin connector, near selector lever
T12i	12-pin connector
T20d	20-pin connector
T52	52-pin connector
Y6	Selector lever position display
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	up May 2005
**	from May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Electromechanical parking brake

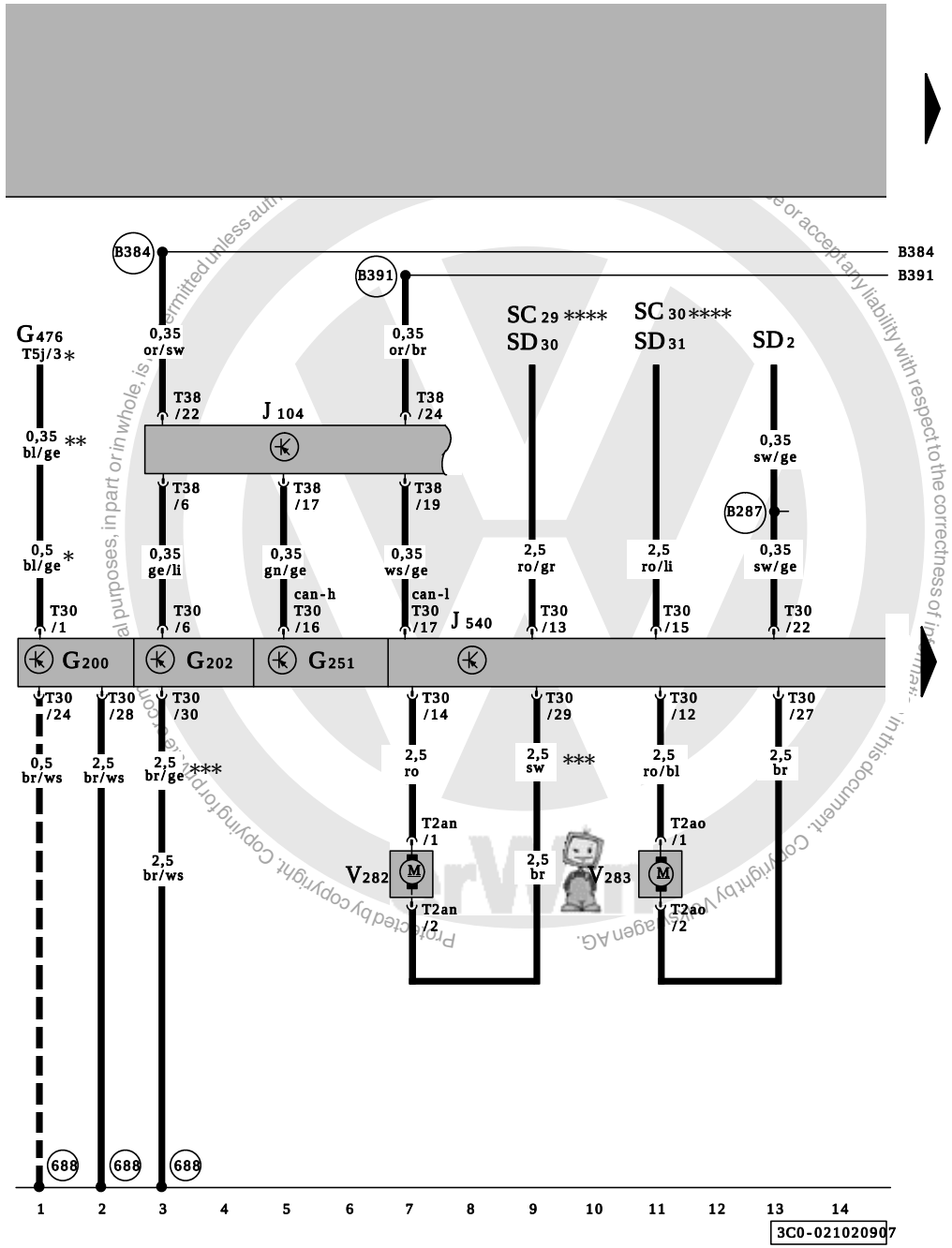
⇒ **Lateral acceleration sender**
⇒ **Yaw rate sender**
From November 2004

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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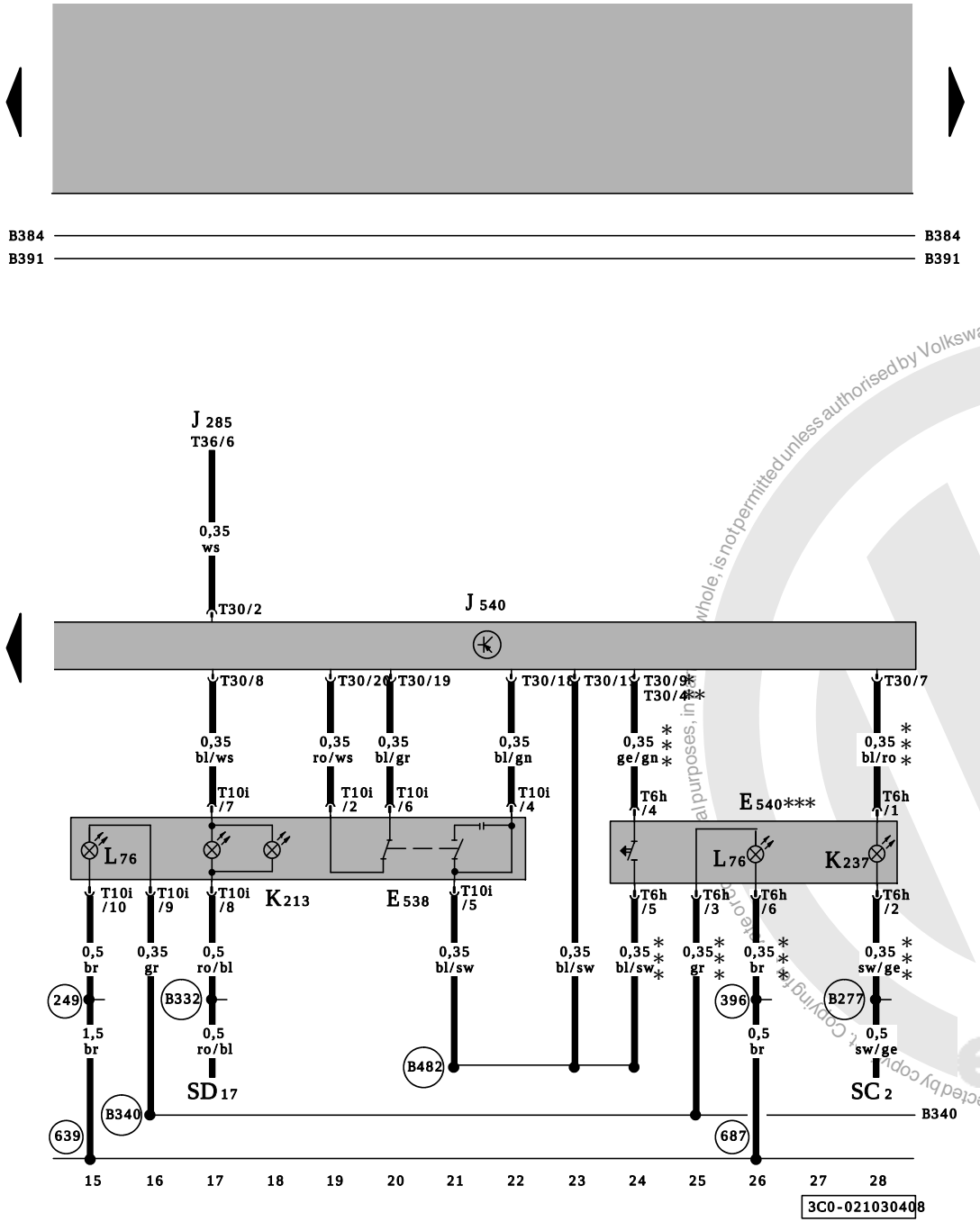


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Control unit for electromechanical parking brake, parking brake motor left and right, lateral acceleration sender, yaw rate sender, longitudinal acceleration sender

G200	Lateral acceleration sender
G202	Yaw rate sender
G251	Longitudinal acceleration sender
G476	Clutch position sender
J104	ABS control unit
J540	Control unit for electromechanical parking brake
SC29	Fuse 29 on fuse holder C
SC30	Fuse 30 on fuse holder C
SD2	Fuse 2 on fuse holder D
SD30	Fuse 30 on fuse holder D
SD31	Fuse 31 on fuse holder D
T2an	2-pin connector
T2ao	2-pin connector
T5j	5-pin connector
T30	30-pin connector
T38	38-pin connector
V282	Left parking brake motor
V283	Right parking brake motor
688	Earth point 2, on centre tunnel
B287	Connection 11 (15a), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Only models with manual gearbox
**	Only models with engine codes BLF, BLR, BLY, BSE, BSF, BYT, BZB and CAXC
***	Valid from May 2005
****	Valid from May 2006
---	Discontinued from May 2007

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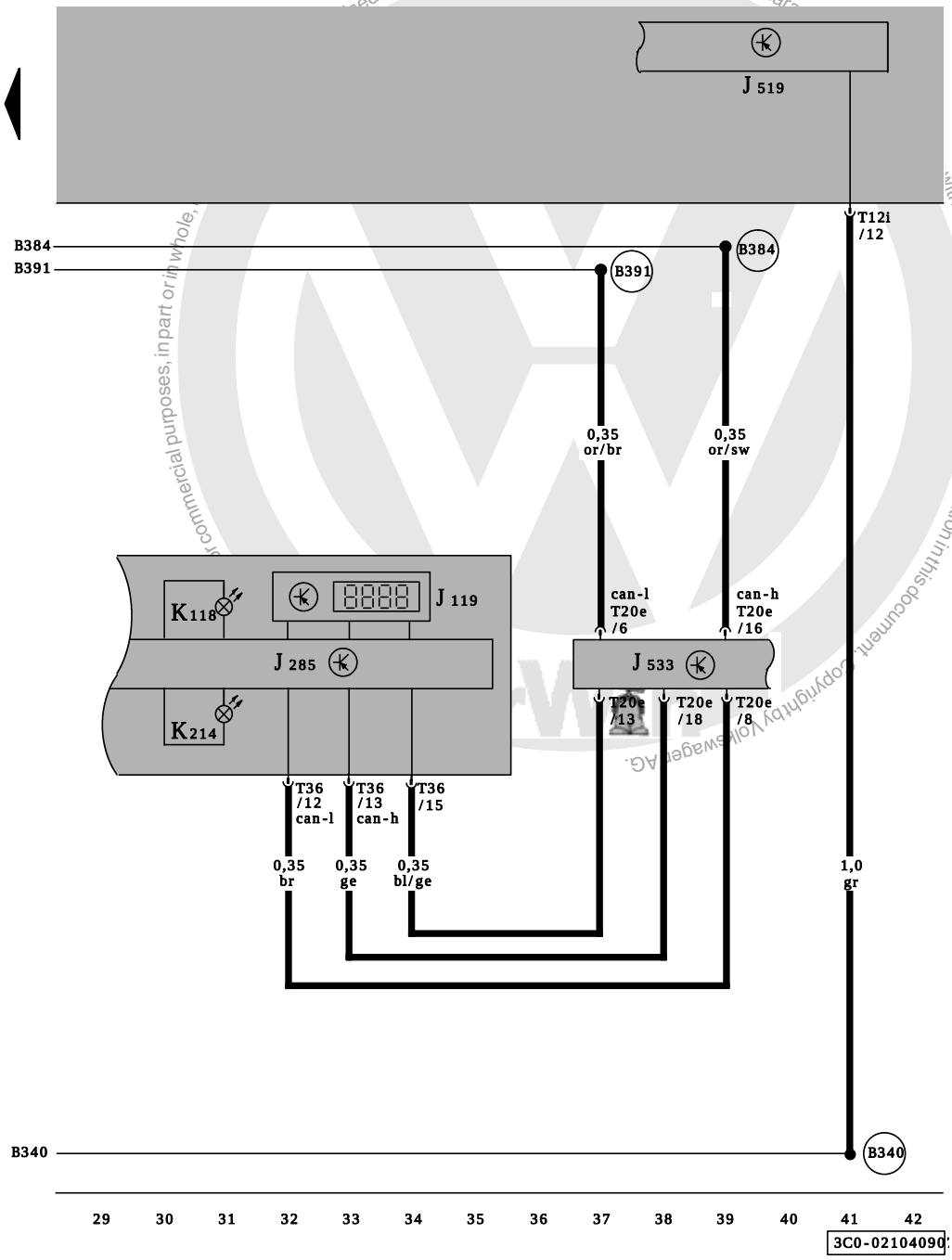
Control unit for electromechanical parking brake, button for electromechanical parking brake

E538	Button for electromechanical parking brake, left of dash panel
E540	AUTO HOLD button, near gear selector
J285	Control unit in dash panel insert
J540	Control unit for electromechanical parking brake
K213	Electromechanical parking brake warning lamp
K237	Auto-hold warning lamp
L76	Button illumination bulb
SC2	Fuse 2 on fuse holder C
SD17	Fuse 17 on fuse holder D
T6h	6-pin connector
T10i	10-pin connector
T30	30-pin connector
T36	36-pin connector
249	Earth connection 2, in interior wiring harness
396	Earth connection 31, in main wiring harness
639	Earth point, left A-pillar
687	Earth point 1, on centre tunnel
B277	Connection 1 (15a), in main wiring harness
B332	Connection 18 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B482	Connection 18, in main wiring harness
*	Applicable up to April 2007
**	Valid from May 2007
***	Only models with Auto Hold function

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Dash panel insert, multifunction display, data bus diagnosis interface

J119	Multifunction indicator
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
K118	Brake system warning lamp
K214	Electric parking brake and handbrake fault warning lamp
T12i	12-pin connector
T20e	20-pin connector
T36	36-pin connector
B340	Connection 1 (58d), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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rs	=	pink

Tyre pressure monitoring system (TPM) (7K3/7K4)

From April 2005

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

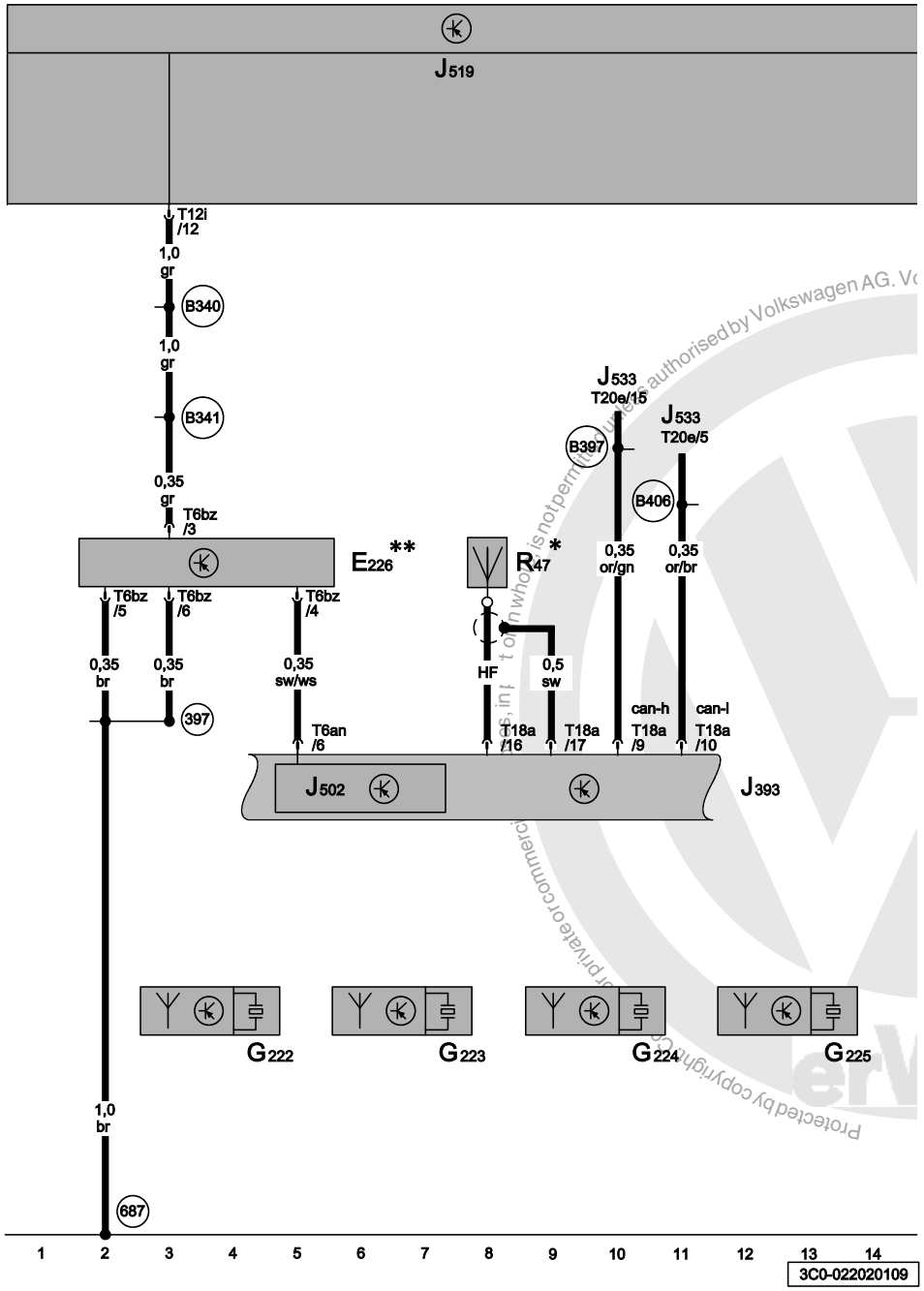
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Control unit for tyre pressure monitor, tyre pressure sensor, button for tyre pressure monitor

E226	Tyre pressure monitor button
G222	Front left tyre pressure sensor
G223	Front right tyre pressure sensor
G224	Rear left tyre pressure sensor
G225	Rear right tyre pressure sensor
J393	Convenience system central control unit
J502	Tyre pressure monitor control unit
J519	Onboard supply control unit
R47	Central locking and anti-theft alarm system aerial
T6an	6-pin connector
T6bz	6-pin connector, blue
T12i	12-pin connector, black
T18a	18-pin connector
397	Earth connection 32, in main wiring harness
687	Earth point 1, on centre tunnel
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Serves as aerial for tyre pressure monitor control unit
**	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Optimal equipment, german special police

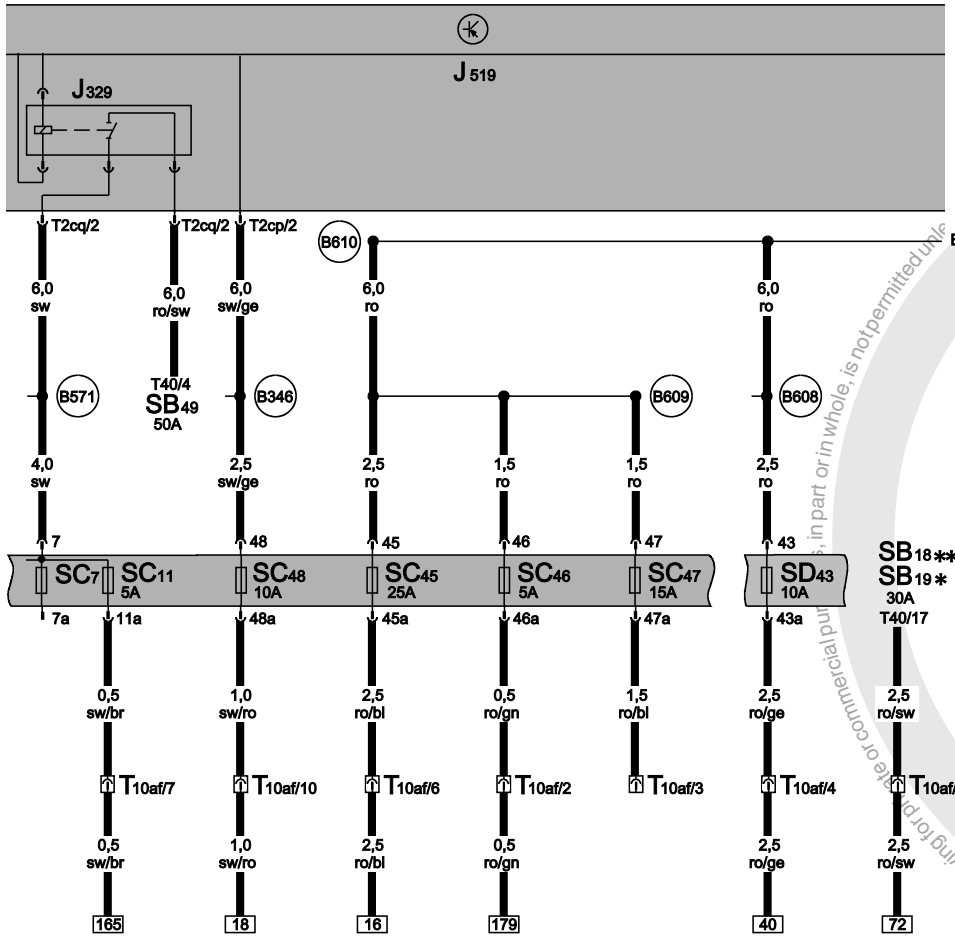
⇒ **Radio system**
⇒ **Special signal system**
⇒ **Accident data memory**
from October 2005

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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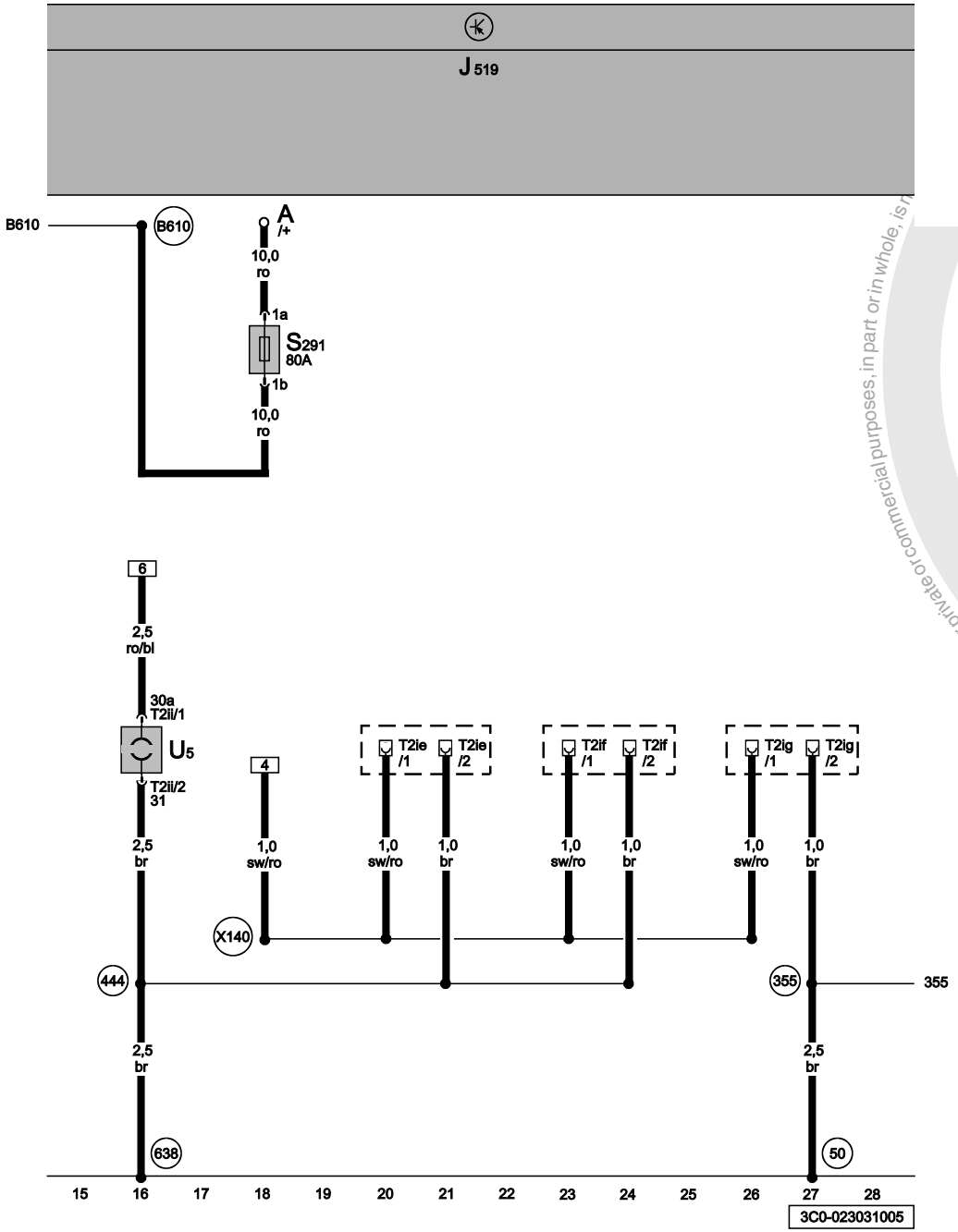


Fuses

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
SC11	Fuse 11 on fuse holder C
SC45	Fuse 45 on fuse holder C
SC46	Fuse 46 on fuse holder C
SC47	Fuse 47 on fuse holder C
SC48	Fuse 48 on fuse holder C
SD43	Fuse 43 on fuse holder D
T2cp	2-pin connector
T2cq	2-pin connector
T10af	10-pin connector, black, coupling point, left A-pillar
T40	40-pin connector, under electronics box, in engine compartment
B346	Connection 1 (75), in main wiring harness
B571	Connection 38, in main wiring harness
B608	Connection 4, in interior wiring harness
B609	Connection 5, in interior wiring harness
B610	Connection 6, in interior wiring harness
*	models with electronics box low only
**	for models with electronics box high only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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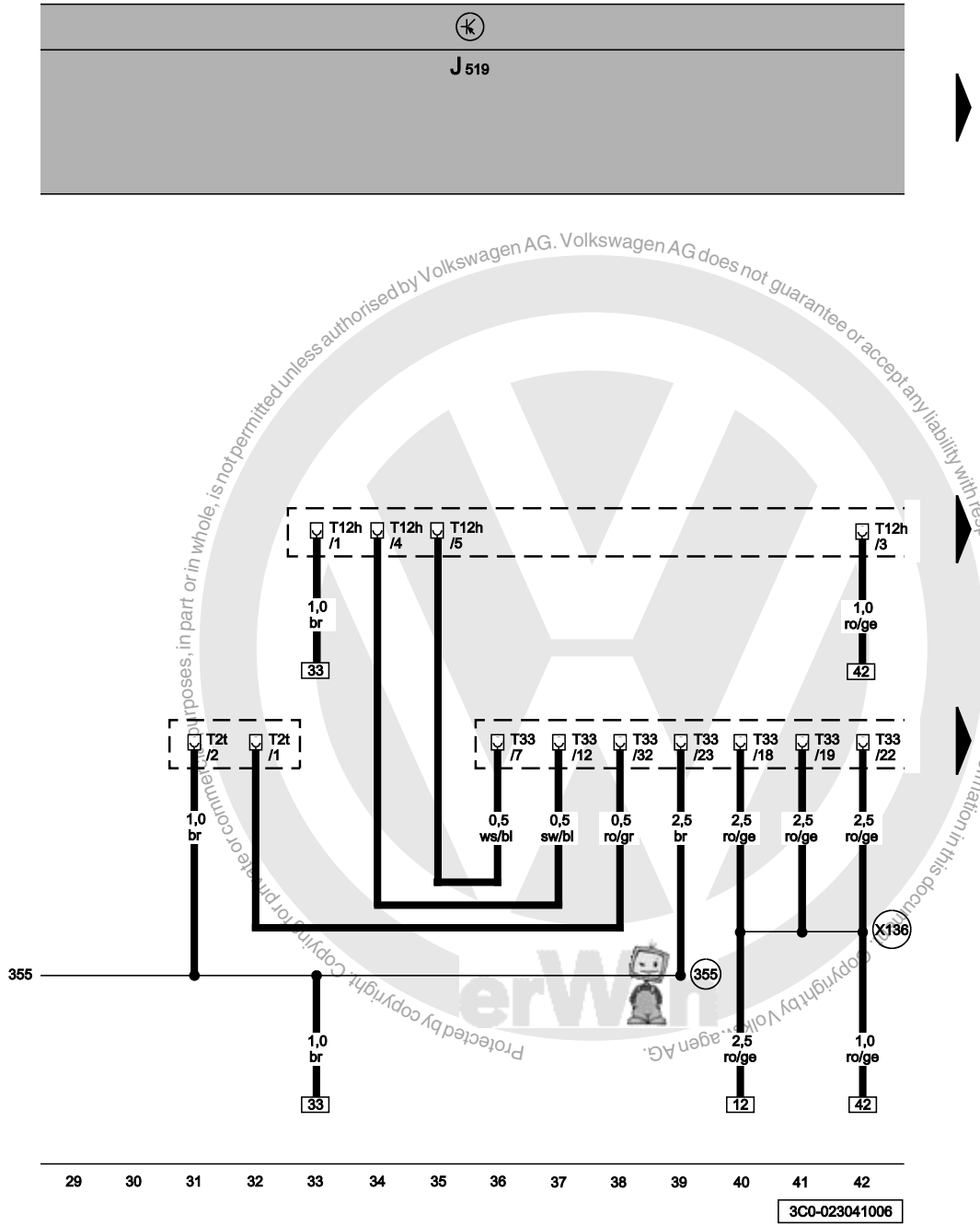


12 V socket, special vehicle fuse 1, 12 V socket, coupling point loading device

A	Battery
J519	Onboard supply control unit
S291	Special vehicle fuse 1, extra fuse box on left headlight
T2ie	2-pin connector, coupling point loading device, under the seat on front right
T2if	2-pin connector, coupling point loading device, under seat rear
T2ig	2-pin connector, coupling point loading device, in luggage compartment
T2ii	2-pin connector
U5	12 V socket, in glove compartment
50	Earth point, on left in luggage compartment
355	Earth connection, in police wiring harness
444	Earth connection 5, in siren system wiring harness
638	Earth point, right A-pillar
B610	Connection 6, in interior wiring harness
X140	Positive connection 2 (15a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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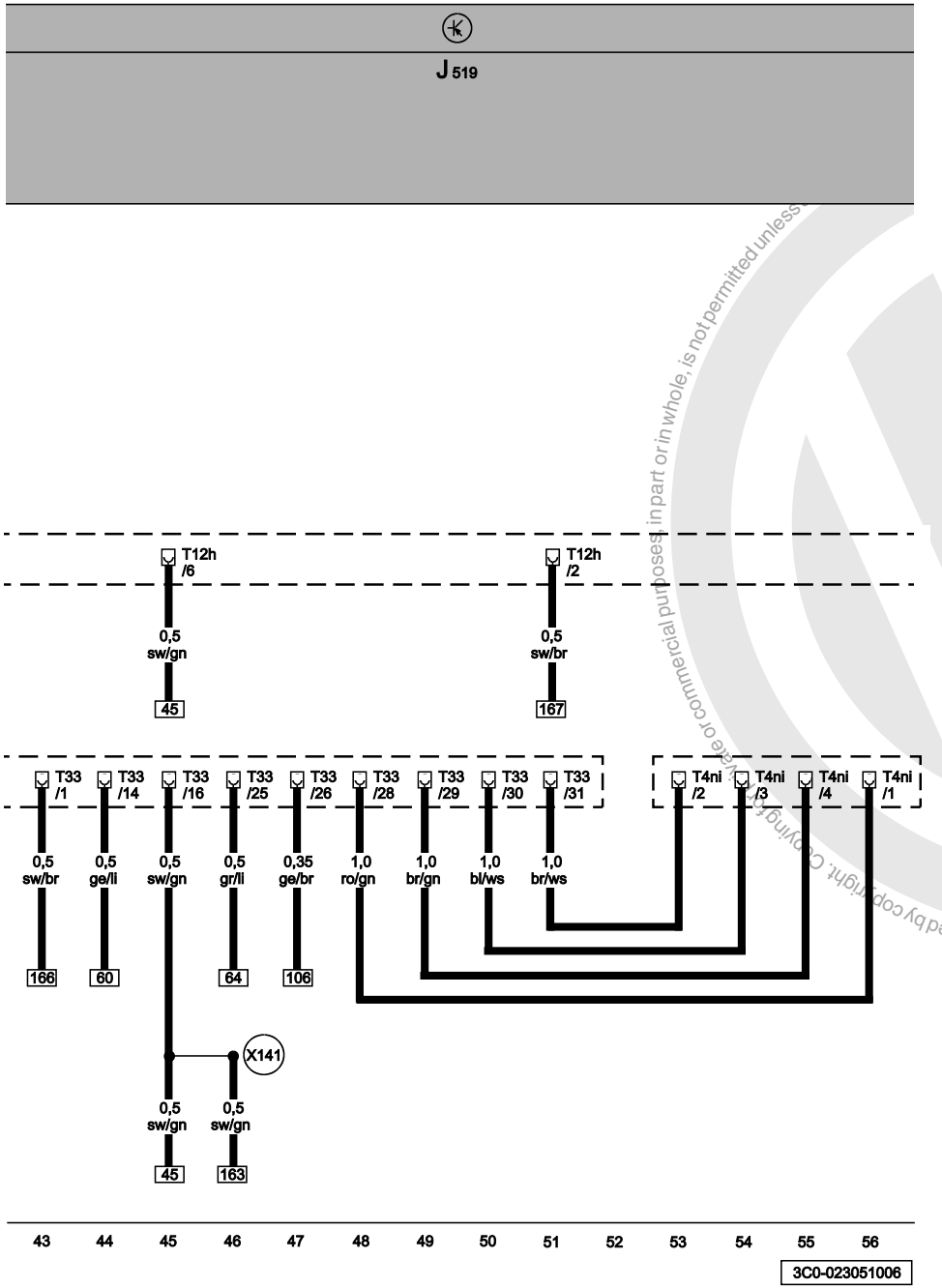


Coupling point rotating light, under the seat on front left and right, special vehicle control unit

J519	Onboard supply control unit
T2t	2-pin connector, coupling point rotating light, under the seat on front left
T12h	12-pin connector, operating unit special signal system, in radio shaft/centre dash panel
T33	33-pin connector, coupling point special vehicle control unit, under the seat on front left
355	Earth connection, in police wiring harness
X136	Positive connection 1 (30a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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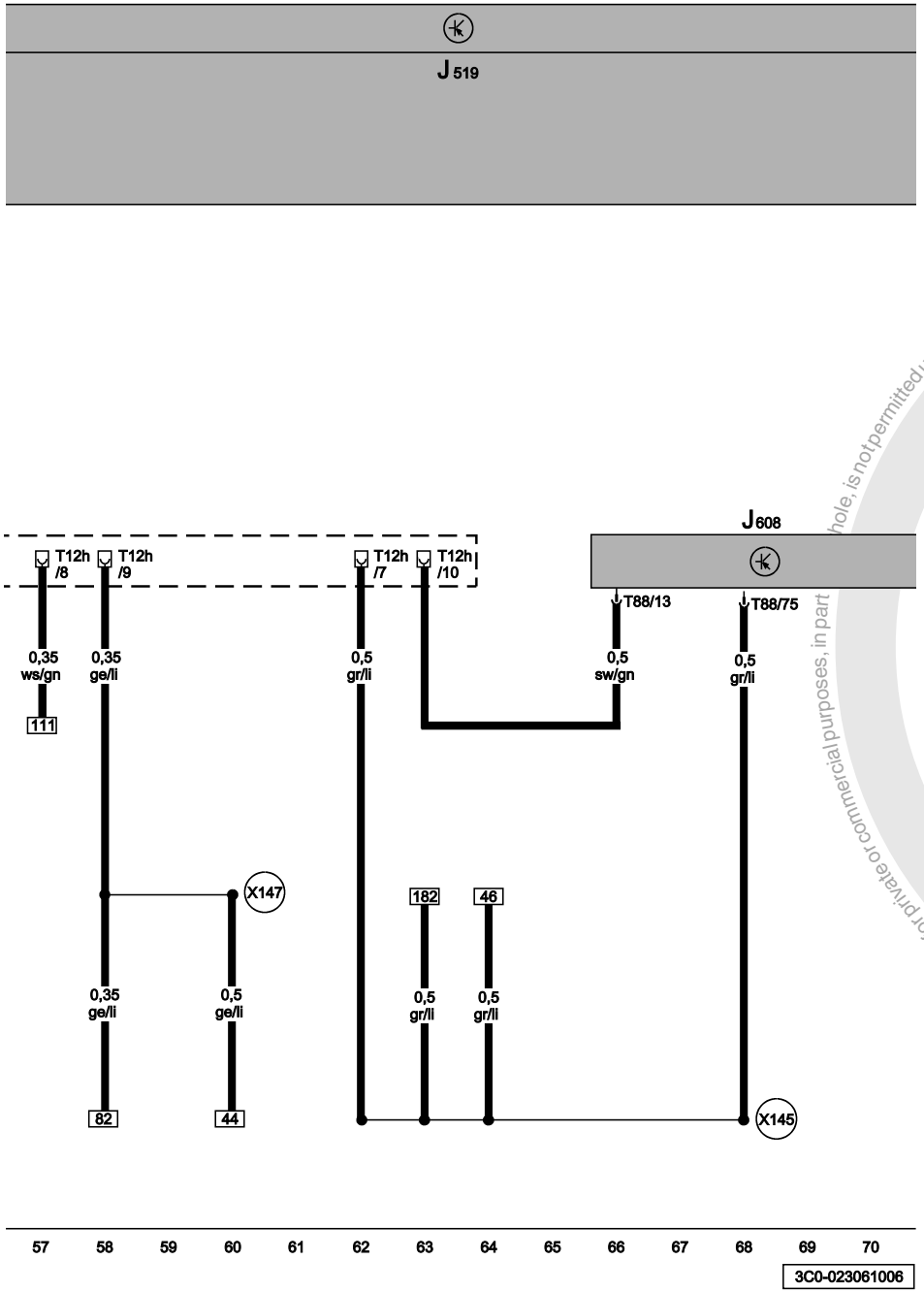


Special vehicle control unit, coupling point special signal system, coupling point pressure chamber loudspeaker

J519	Onboard supply control unit
T4ni	4-pin connector, coupling point pressure chamber loudspeaker, of the electronics box in engine compartment
T12h	12-pin connector, operating unit special signal system, in radio shaft/centre dash panel
T33	33-pin connector, coupling point special vehicle control unit, under the seat on front left
X141	Positive connection 4 (30a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
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bl	=	blue
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Operating unit special signal system, special vehicle control unit

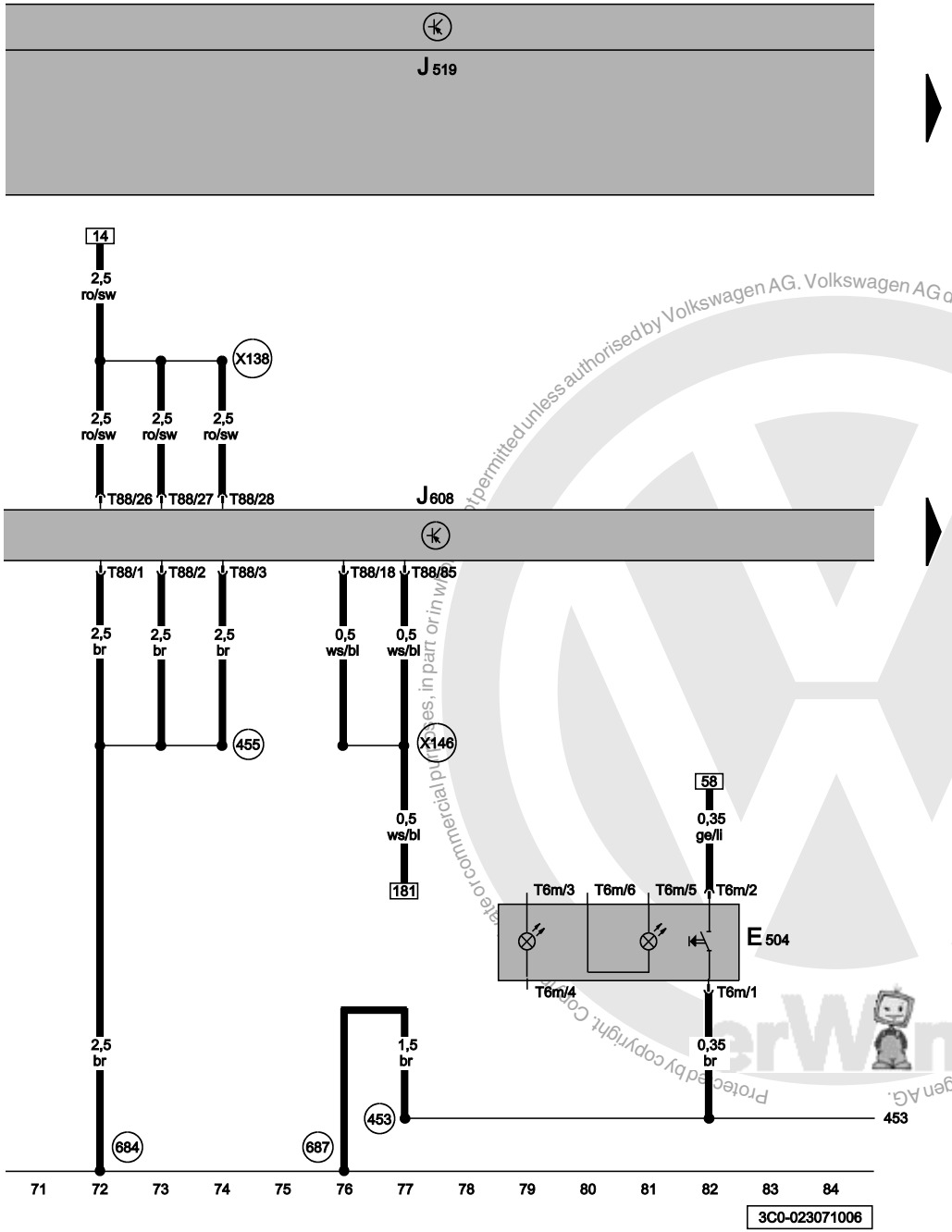
J519 Onboard supply control unit
J608 Special vehicle control unit
T12h 12-pin connector, operating unit special signal system, in radio shaft/centre dash panel
T88 88-pin connector

X145 Connection 7, in optional equipment wiring harness

X147 Positive connection 6 (30), in optional equipment wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Special vehicle control unit, functional test button for special signal system

E504 Functional test button for special signal system
J519 Onboard supply control unit
J608 Special vehicle control unit
T6m 6-pin connector
T88 88-pin connector

453 Earth connection 3, in optional equipment wiring harness

455 Earth connection 5, in optional equipment wiring harness

684 Earth point, on front of left longitudinal member

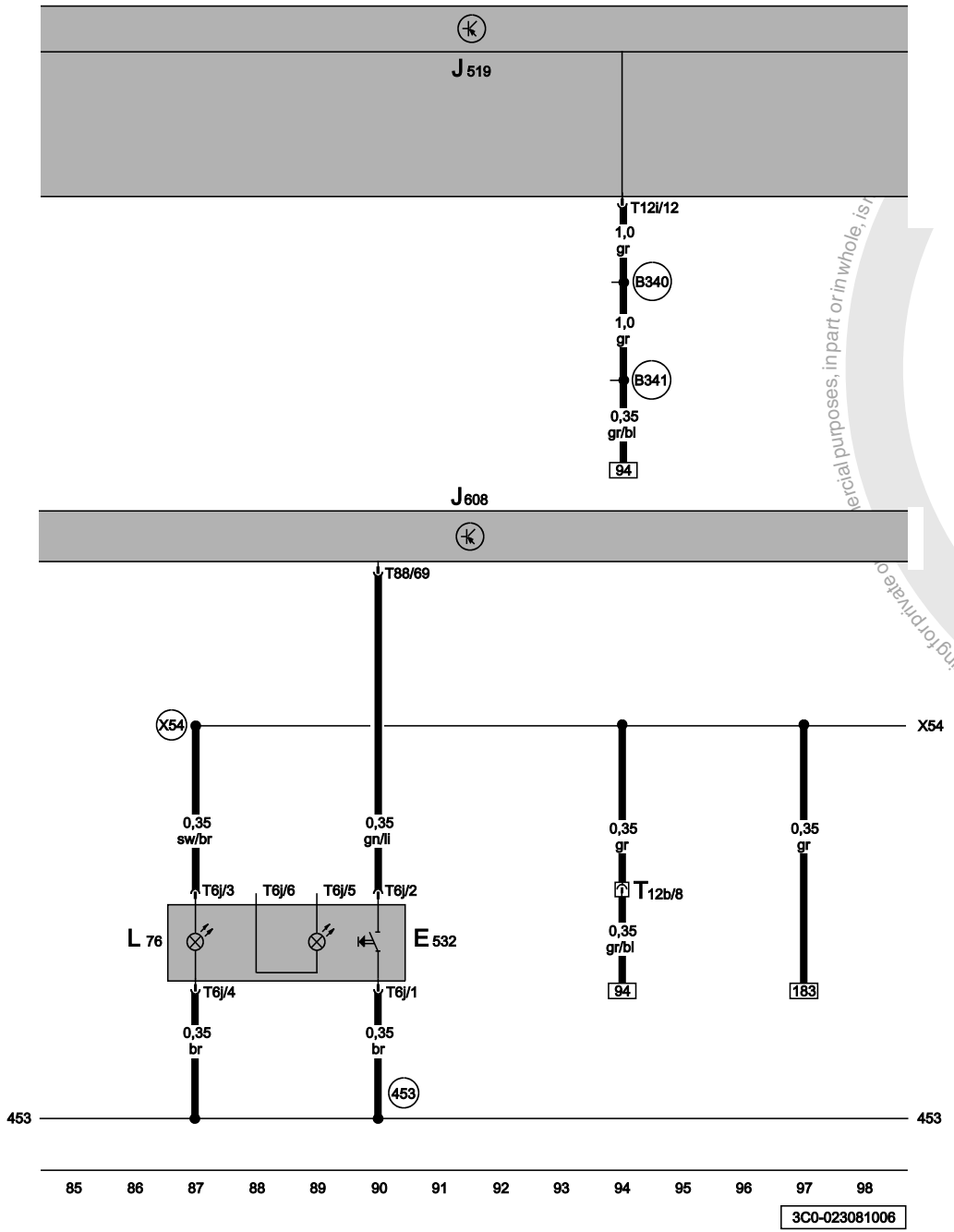
687 Earth point 1, on centre tunnel

X138 Positive connection 3 (30a), in siren wiring harness

X146 Connection 8, in optional equipment wiring harness

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sw = black
ro = red
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gn = green
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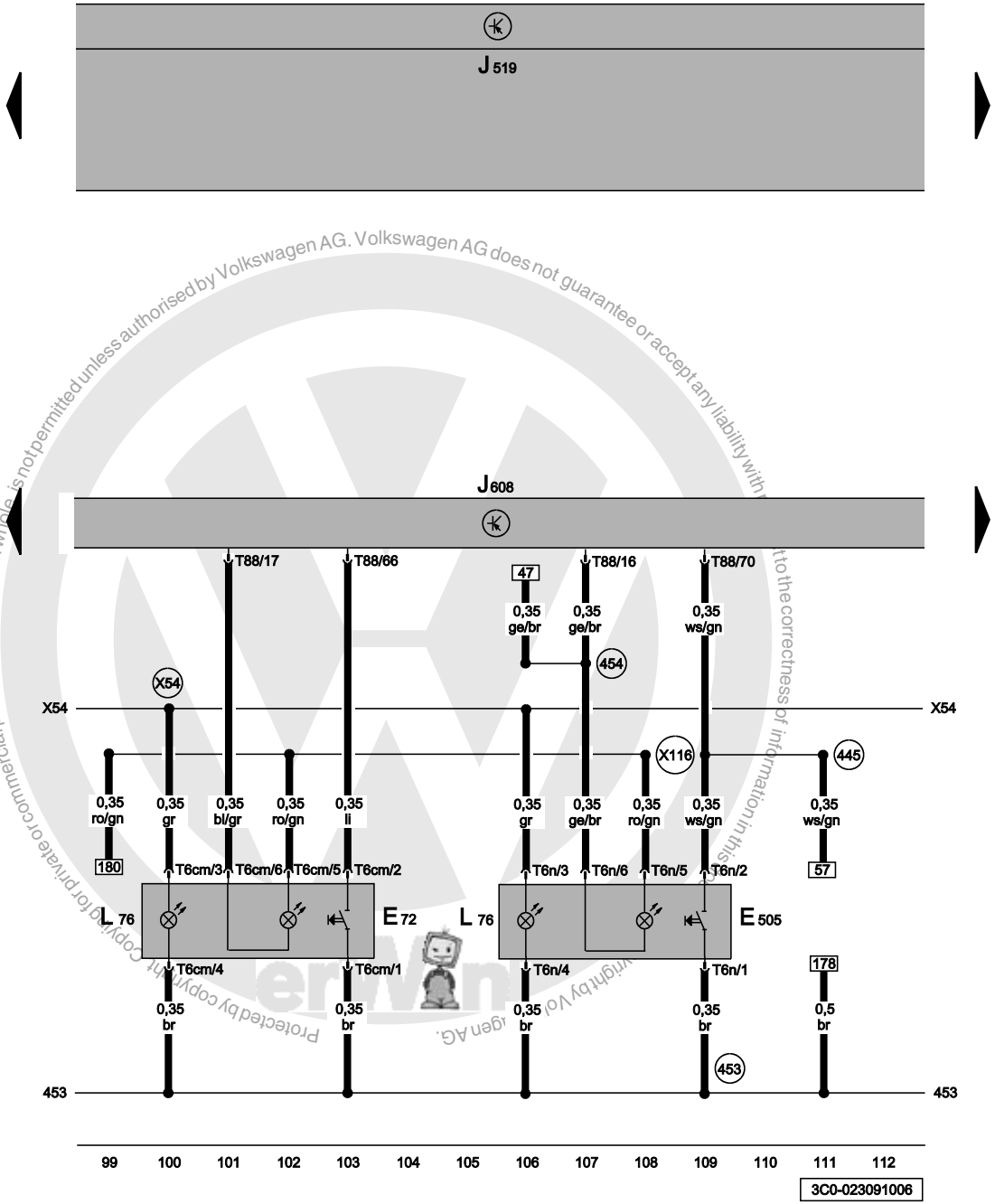


Special vehicle control unit, button to deactivate interior lights

E532	Button to deactivate interior lights
J519	Onboard supply control unit
J608	Special vehicle control unit
L76	Button illumination bulb
T6j	6-pin connector
T12b	12-pin connector, black, coupling point, left A-pillar
T12i	12-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
X54	Positive connection (58), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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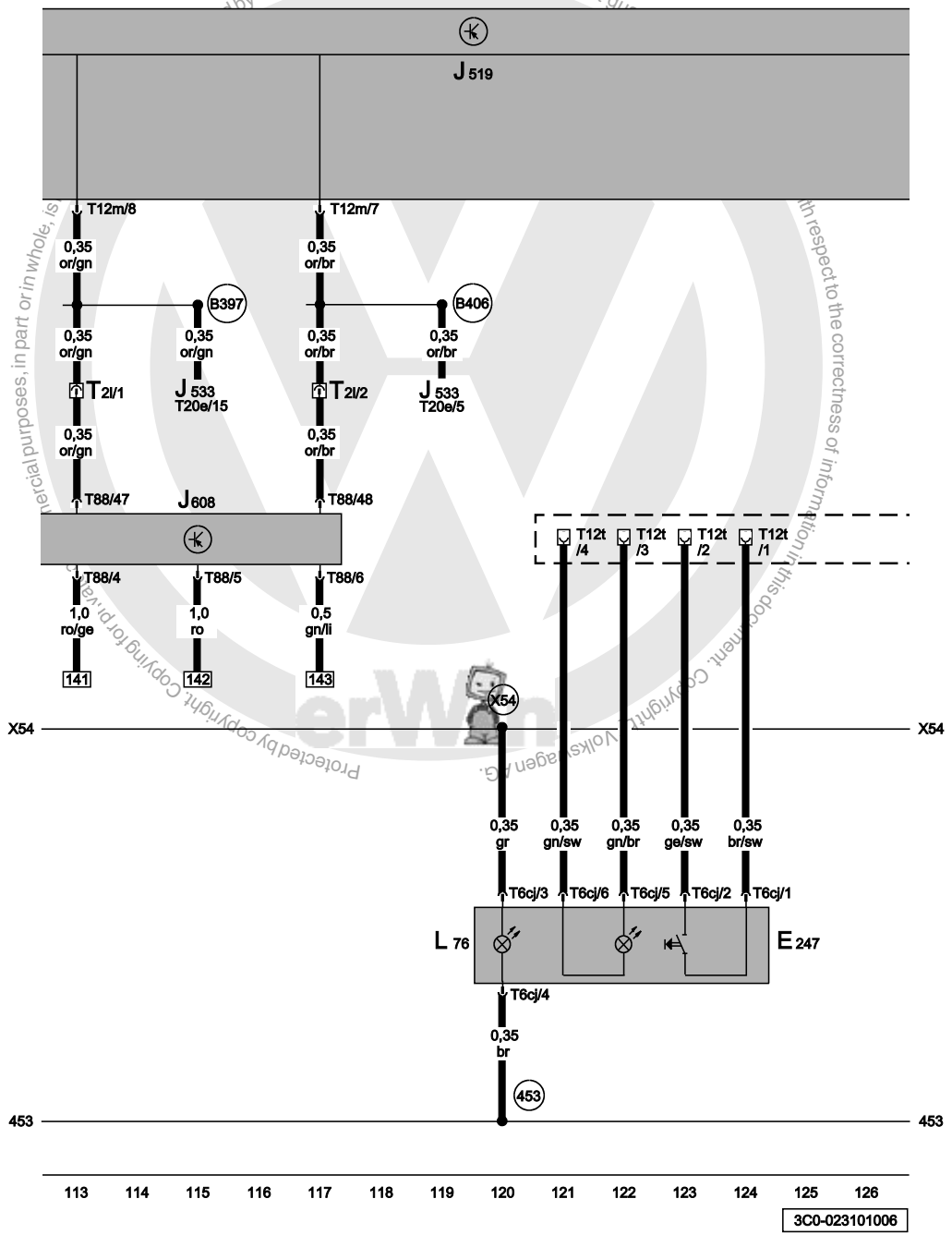


Special vehicle control unit, 2-way radio switch, special signal system change-over button

E72	2-way radio switch
E505	Special signal system change-over button
J519	Onboard supply control unit
J608	Special vehicle control unit
L76	Button illumination bulb
T6n	6-pin connector
T6cm	6-pin connector
T88	88-pin connector
445	Earth connection 6, in siren system wiring harness
453	Earth connection 3, in optional equipment wiring harness
454	Earth connection 4, in optional equipment wiring harness
X54	Positive connection (58), in optional equipment wiring harness
X116	Positive connection 2 (30), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
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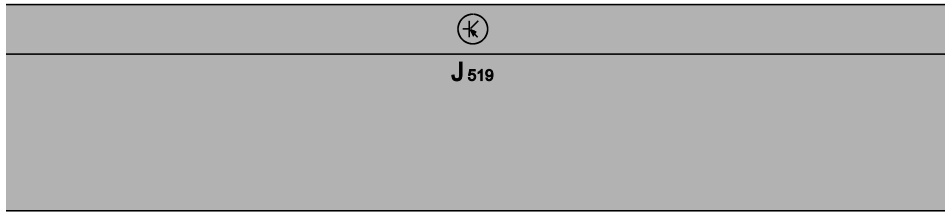


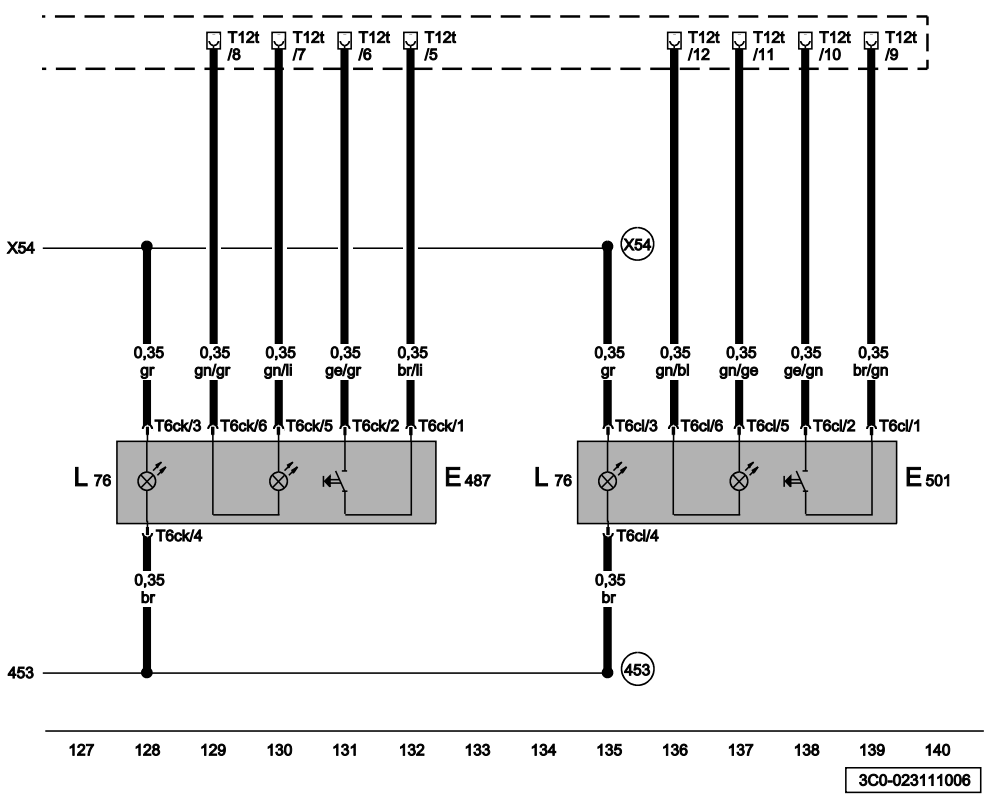
Special vehicle control unit, onboard supply control unit, switch to trip alarm, coupling point radio button

E247	Switch to trip alarm
J519	Onboard supply control unit
J608	Special vehicle control unit
J533	Data bus diagnostic interface
L76	Button illumination bulb
T2l	2-pin connector, on Gateway control unit, near steering column
T6cj	6-pin connector
T12m	12-pin connector, black
T12t	12-pin connector, coupling point radio button, in spare wheel recess
T20e	20-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
X54	Positive connection (58), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Hands-free system button, hands-free system button 1, coupling point radio button

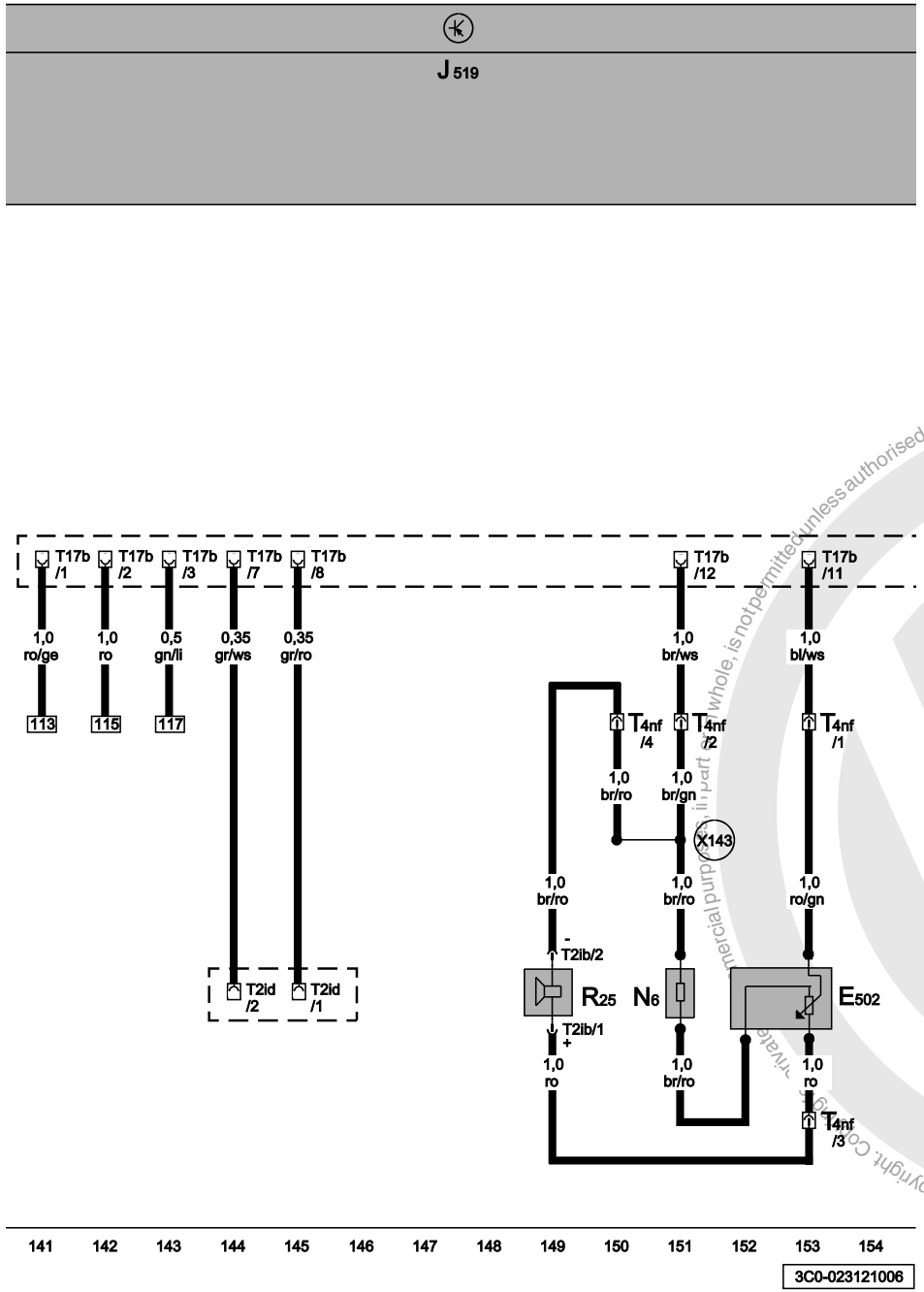
E487	Hands-free system button
E501	Hands-free system button 1
J519	Onboard supply control unit
L76	Button illumination bulb
T6ck	6-pin connector
T6cl	6-pin connector
T12t	12-pin connector, coupling point radio button, in spare wheel recess
453	Earth connection 3, in optional equipment wiring harness
X54	Positive connection (58), in optional equipment wiring harness

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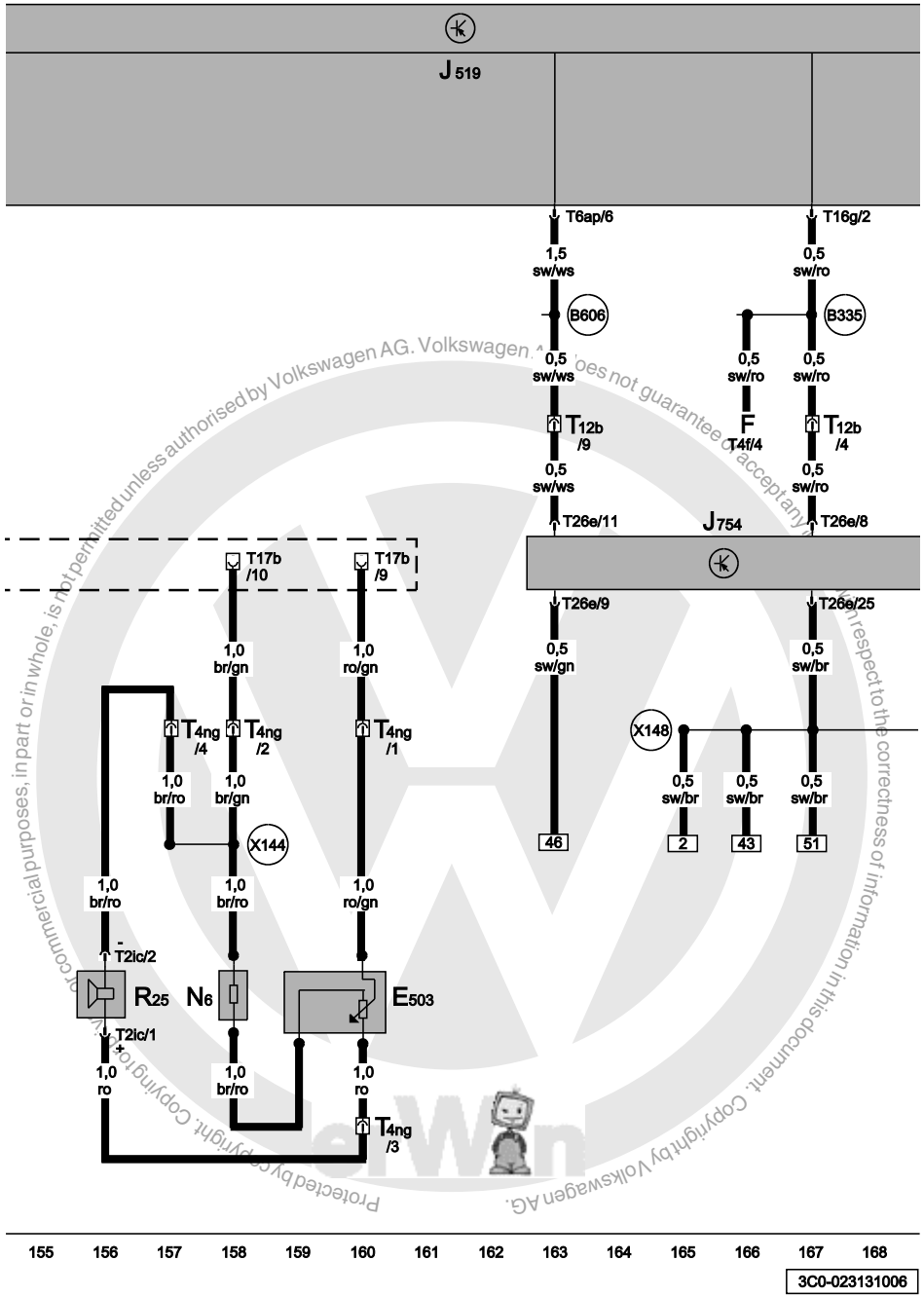
2-way radio loudspeaker volume control 1, coupling point two-way radio, coupling point microphone, two-way radio loudspeaker

E502	2-way radio loudspeaker volume control 1
J519	Onboard supply control unit
N6	Series resistor
R25	Two-way radio loudspeaker
T2ib	2-pin connector, centre console, near gear stick
T2id	2-pin connector, coupling point microphone
T4nf	4-pin connector, on 1-way radio loudspeaker volume control 2
T17b	17-pin connector, coupling point two-way radio in luggage compartment
X143	Positive connection 4 (30), in optional equipment wiring harness



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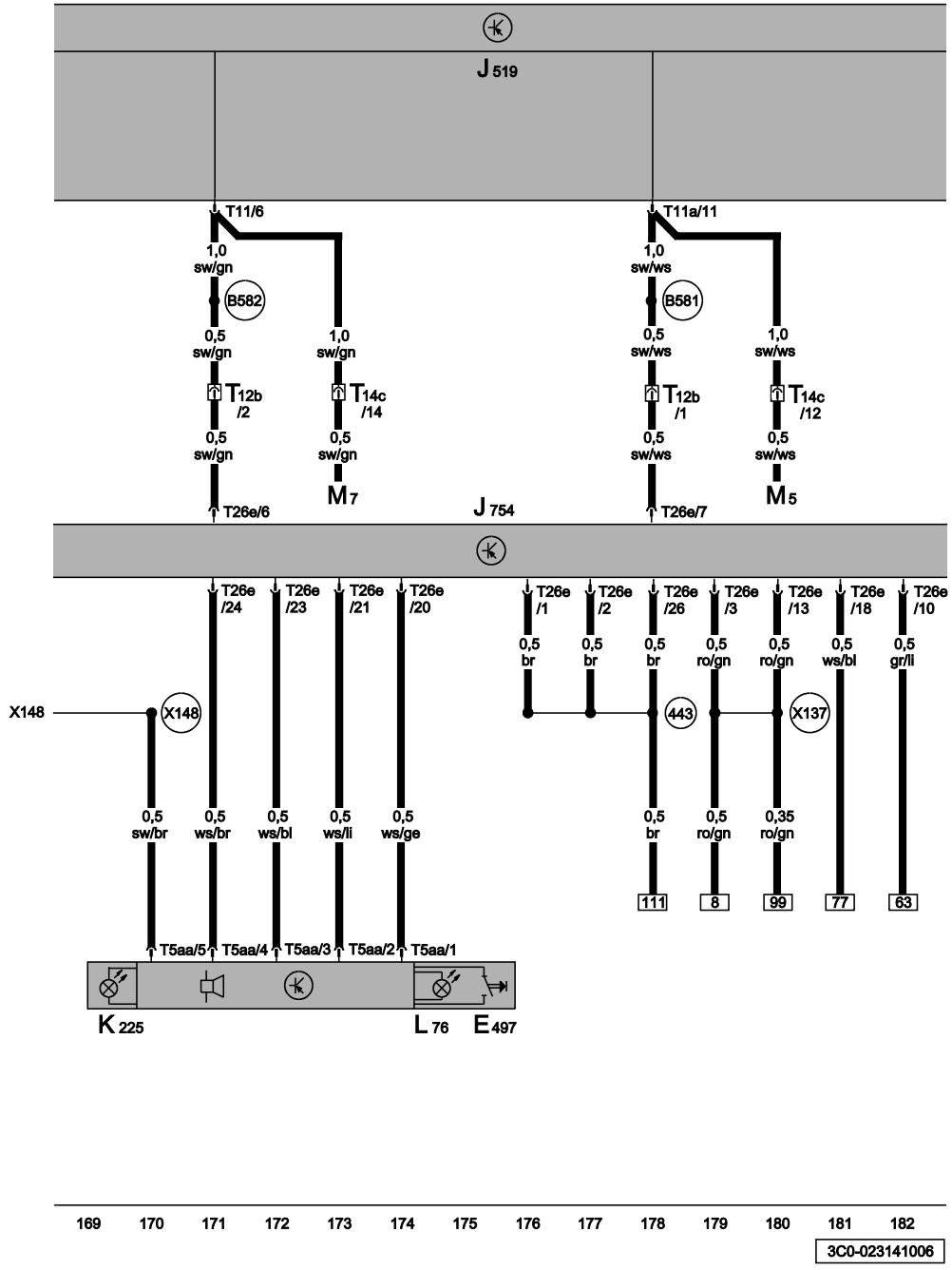


2-way radio loudspeaker volume control 2, coupling point two-way radio, two-way radio loudspeaker, onboard supply control unit, accident data memory

E503	2-way radio loudspeaker volume control 2
F	Brake light switch
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
N6	Series resistor
R25	Two-way radio loudspeaker
T2ic	2-pin connector
T4f	4-pin connector
T4ng	4-pin connector, on 2-way radio loudspeaker volume control 2
T6ap	6-pin connector, black
T12b	12-pin connector, black, coupling point, left A-pillar
T16g	16-pin connector, black
T17b	17-pin connector, coupling point two-way radio in luggage compartment
T26e	26-pin connector
B335	Connection 1 (54), in main wiring harness
B606	Connection 2, in interior wiring harness
X144	Positive connection 5 (30), in optional equipment wiring harness
X148	Positive connection 7 (30), in optional equipment wiring harness

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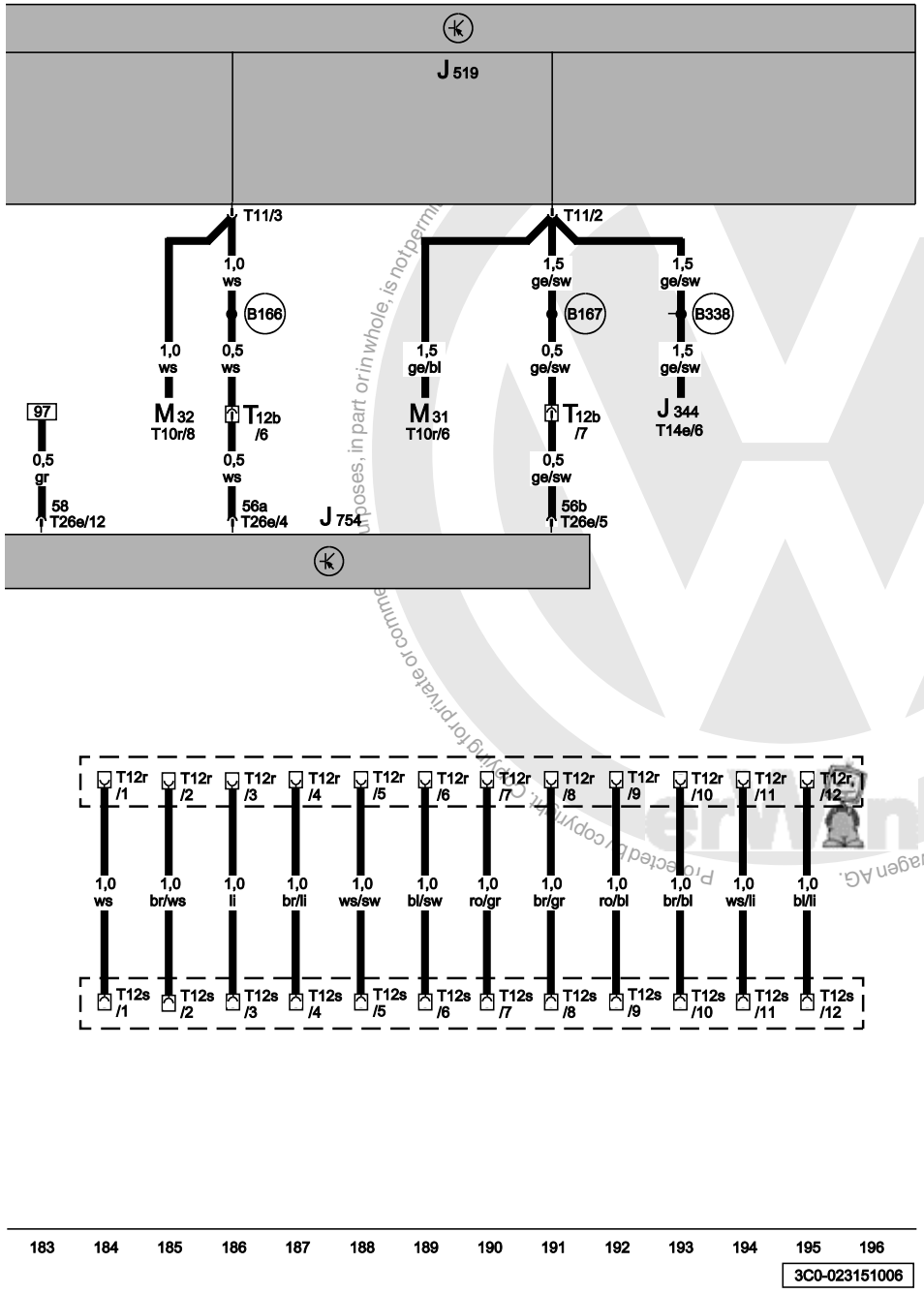
Accident data recorder, accident data recorder button, accident recorder warning lamp

E497	Accident data recorder button
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
K225	Accident recorder warning lamp
L76	Button illumination bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
T5aa	5-pin connector
T11	11-pin connector, black
T11a	11-pin connector, brown
T12b	12-pin connector, black, coupling point, left A-pillar
T14c	14-pin connector, coupling point bumper front left
T26e	26-pin connector
443	Earth connection 4, in siren system wiring harness
B581	Positive connection (left indicator lamp), interior wiring harness
B582	Positive connection (right indicator lamp), interior wiring harness
X137	Positive connection 2 (30a), in siren wiring harness
X148	Positive connection 7 (30), in optional equipment wiring harness

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Accident data memory, right dipped beam bulb, right main beam bulb



J344	Right gas discharge light control unit
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
M31	Right dipped beam bulb
M32	Right main beam bulb
T10r	10-pin connector, black
T11	11-pin connector, black
T12b	12-pin connector, black, coupling point, left A-pillar
T12r	12-pin connector, coupling point two-way radio, right A-pillar
T12s	12-pin connector, coupling point two-way radio in luggage compartment
T14e	14-pin connector, on front right headlight
T26e	26-pin connector
B166	Connection (56a), in interior wiring harness
B167	Connection (56b), in interior wiring harness
B338	Connection 1 (56), in main wiring harness

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Parking aid (PDC)

From November 2004

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

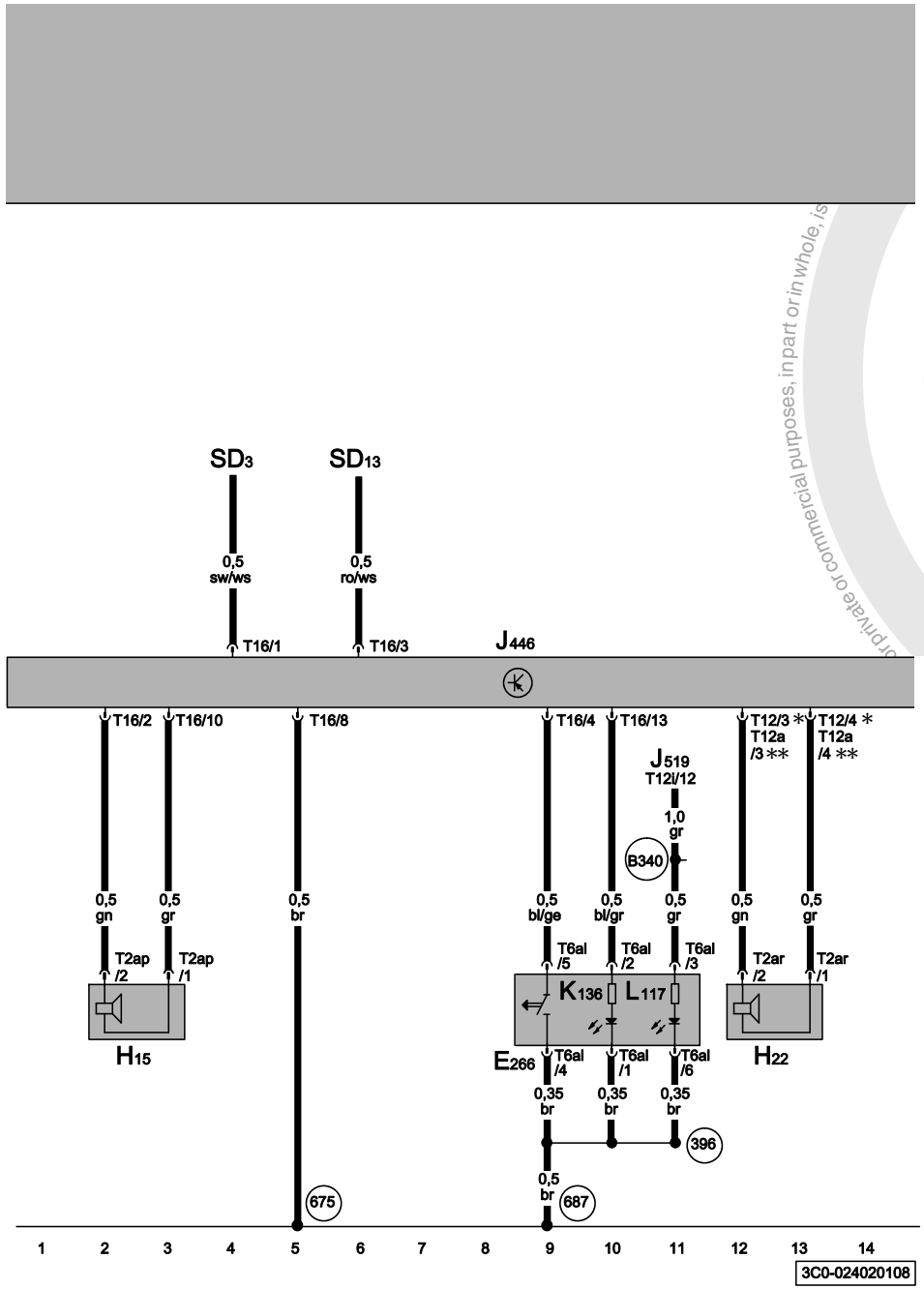
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Parking aid button, parking aid warning buzzer, parking aid control unit

E266	Parking aid button
H15	Rear parking aid warning buzzer
H22	Front parking aid warning buzzer
J446	Parking aid control unit
J519	Onboard supply control unit
K136	Parking aid warning lamp
L117	Parking aid switch illumination bulb
SD3	Fuse 3 on fuse holder D
SD13	Fuse 13 on fuse holder D
T2ap	2-pin connector
T2ar	2-pin connector
T6al	6-pin connector
T12	12-pin connector, brown
T12a	12-pin connector, brown
T12i	12-pin connector, black
T16	16-pin connector, brown
396	Earth connection 31, in main wiring harness
675	Earth point 2, on right in luggage compartment
687	Earth point 1, on centre tunnel
B340	Connection 1 (58d), in main wiring harness

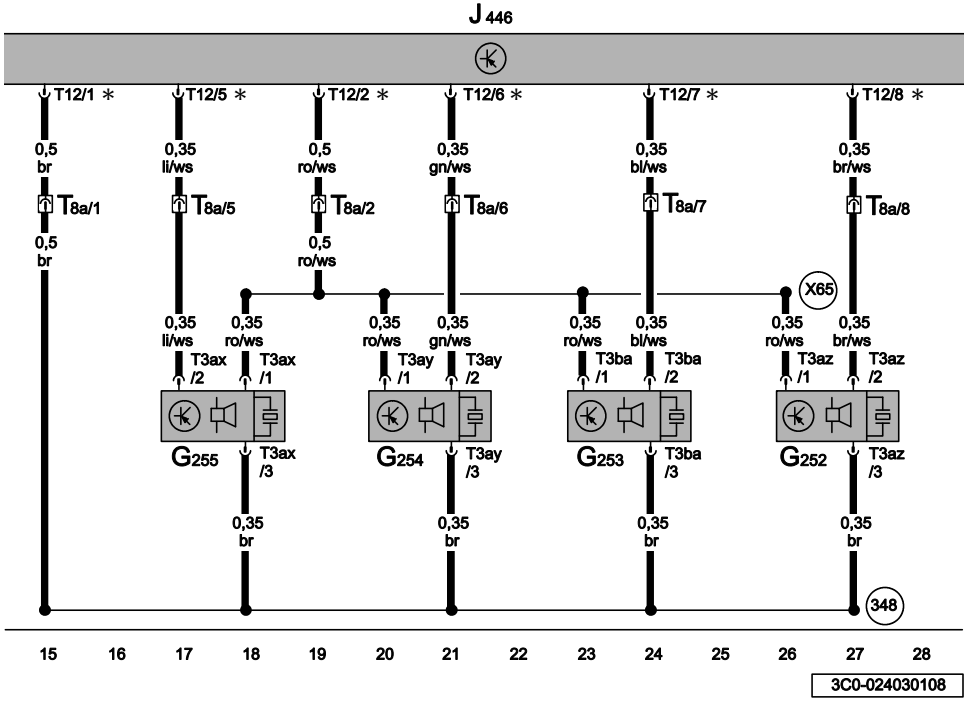
* Only Variant models
** Only On saloon models

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Parking aid control unit, front parking aid sender, Variant

G252	Front right parking aid sender
G253	Front centre right parking aid sender
G254	Front centre left parking aid sender
G255	Front left parking aid sender
J446	Parking aid control unit
T3ax	3-pin connector
T3ay	3-pin connector
T3az	3-pin connector
T3ba	3-pin connector
T8a	8-pin connector, black, on front left longitudinal member
T12	12-pin connector, brown
348	Earth connection (parking aid), in front bumper wiring harness
X65	Connection (parking aid), in front bumper wiring harness
*	Only Variant models

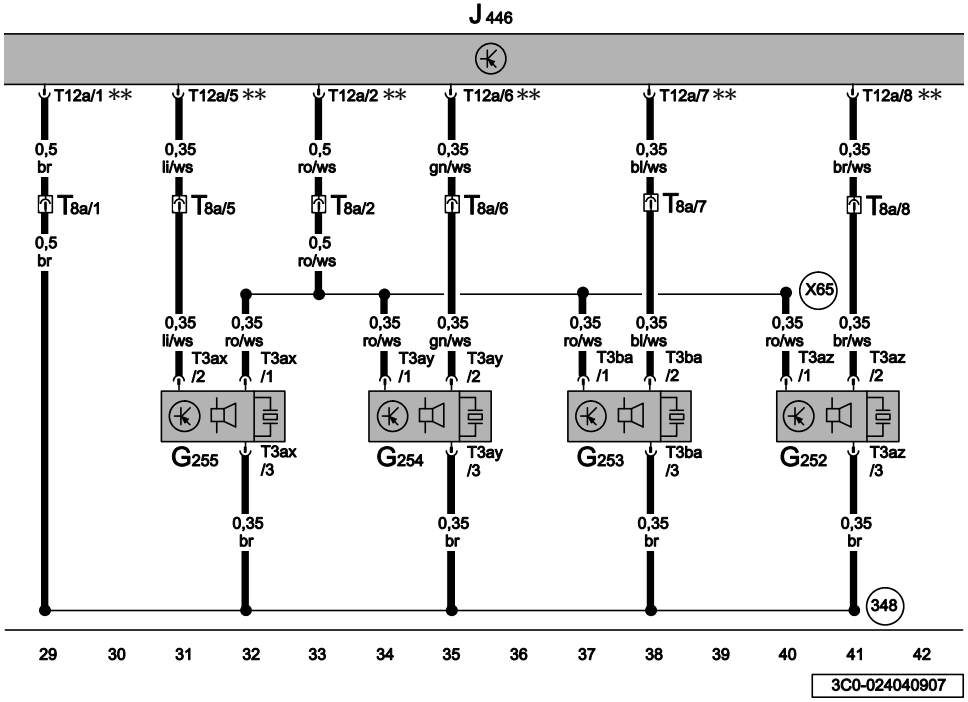


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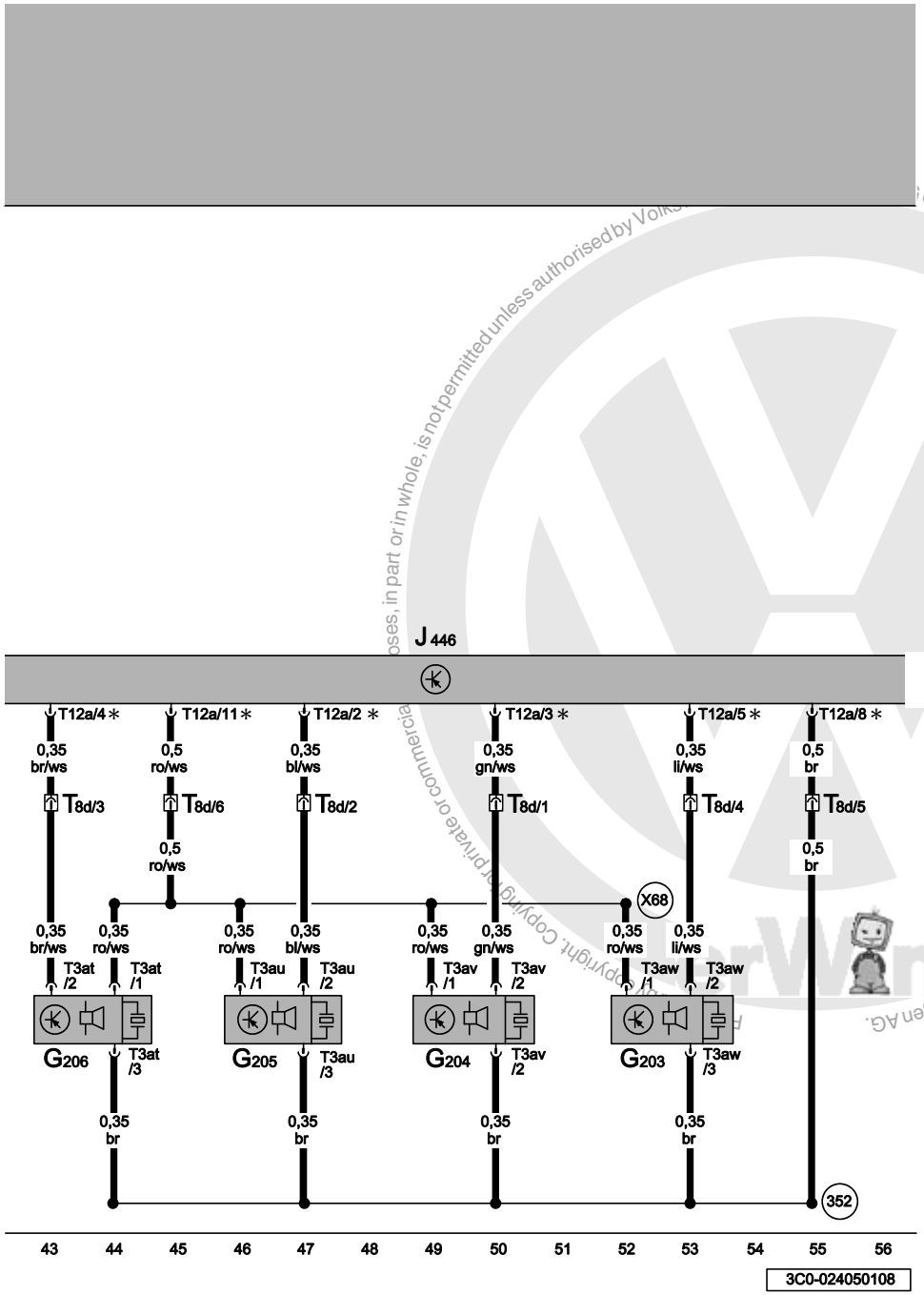
Parking aid control unit, front parking aid sender, saloon

G252	Front right parking aid sender
G253	Front centre right parking aid sender
G254	Front centre left parking aid sender
G255	Front left parking aid sender
J446	Parking aid control unit
T3ax	3-pin connector
T3ay	3-pin connector
T3az	3-pin connector
T3ba	3-pin connector
T8a	8-pin connector, black, on front left longitudinal member
T12a	12-pin connector, brown
348	Earth connection (parking aid), in front bumper wiring harness
X65	Connection (parking aid), in front bumper wiring harness
**	Only On saloon models



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Parking aid control unit, rear parking aid sender, Variant

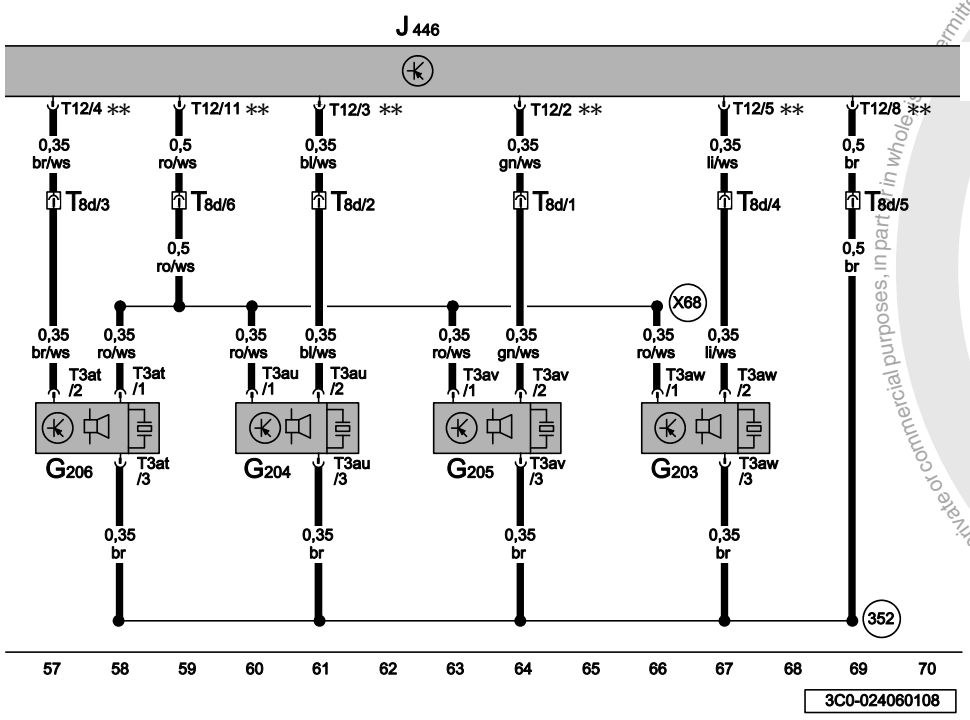
G203	Rear left parking aid sender
G204	Rear centre left parking aid sender
G205	Rear centre right parking aid sender
G206	Rear right parking aid sender
J446	Parking aid control unit
T3at	3-pin connector
T3au	3-pin connector
T3av	3-pin connector
T3aw	3-pin connector
T8d	8-pin connector, black, on rear bumper on right
T12a	12-pin connector, black
(352)	Earth connection (parking aid), in rear bumper wiring harness
(X68)	Positive connection (parking aid), in rear bumper wiring harness
*	Only Variant models

ws	=	white
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Parking aid control unit, rear parking aid sender, saloon

G203	Rear left parking aid sender
G204	Rear centre left parking aid sender
G205	Rear centre right parking aid sender
G206	Rear right parking aid sender
J446	Parking aid control unit
T3at	3-pin connector
T3au	3-pin connector
T3av	3-pin connector
T3aw	3-pin connector
T8d	8-pin connector, black, on rear bumper on right
T12	12-pin connector, black
352	Earth connection (parking aid), in rear bumper wiring harness
X68	Positive connection (parking aid), in rear bumper wiring harness
**	Only On saloon models

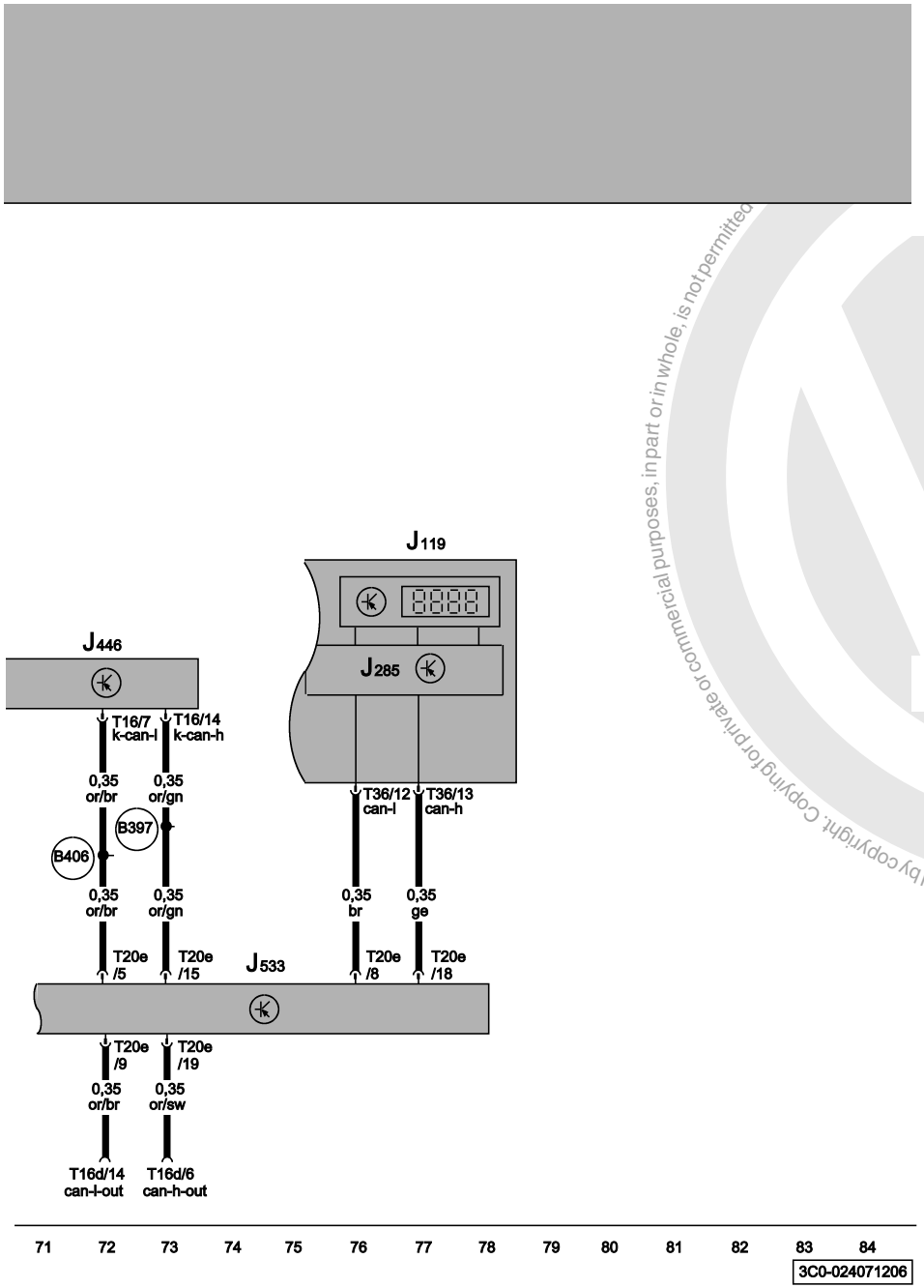


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Dash panel insert, multifunction display, data bus diagnostic interface, self-diagnosis connection

J119	Multifunction display
J285	Control unit in dash panel insert
J446	Parking aid control unit
J533	Data bus diagnosis interface
T16	16-pin connector, brown
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T36	36-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness



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Trailer towing attachment

from November 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

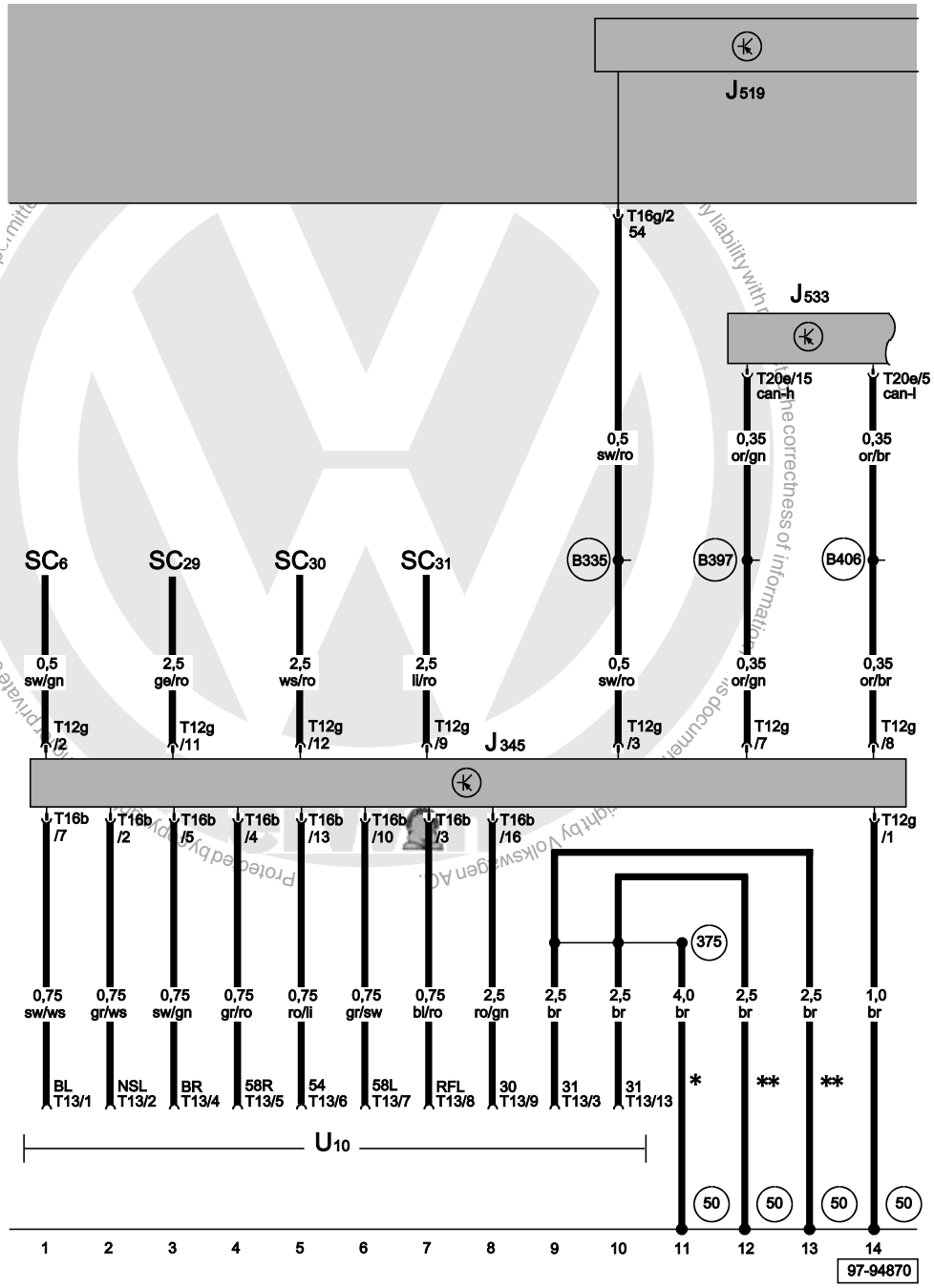
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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Trailer detector control unit, trailer socket, data bus diagnostic interface

J345	Trailer detector control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
SC6	Fuse 6 on fuse holder C
SC29	Fuse 29 on fuse holder C
SC30	Fuse 30 on fuse holder C
SC31	Fuse 31 on fuse holder C
T12g	12-pin connector
T13	13-pin connector
T16b	16-pin connector, black
T20e	20-pin connector
U10	Trailer socket
50	Earth point, on left in luggage compartment
375	Earth connection 10, in main wiring harness
B335	Connection 1 (54), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	applicable up to May 2005
**	applicable from June 2005

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Electromechanical power assisted steering

From November 2004

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

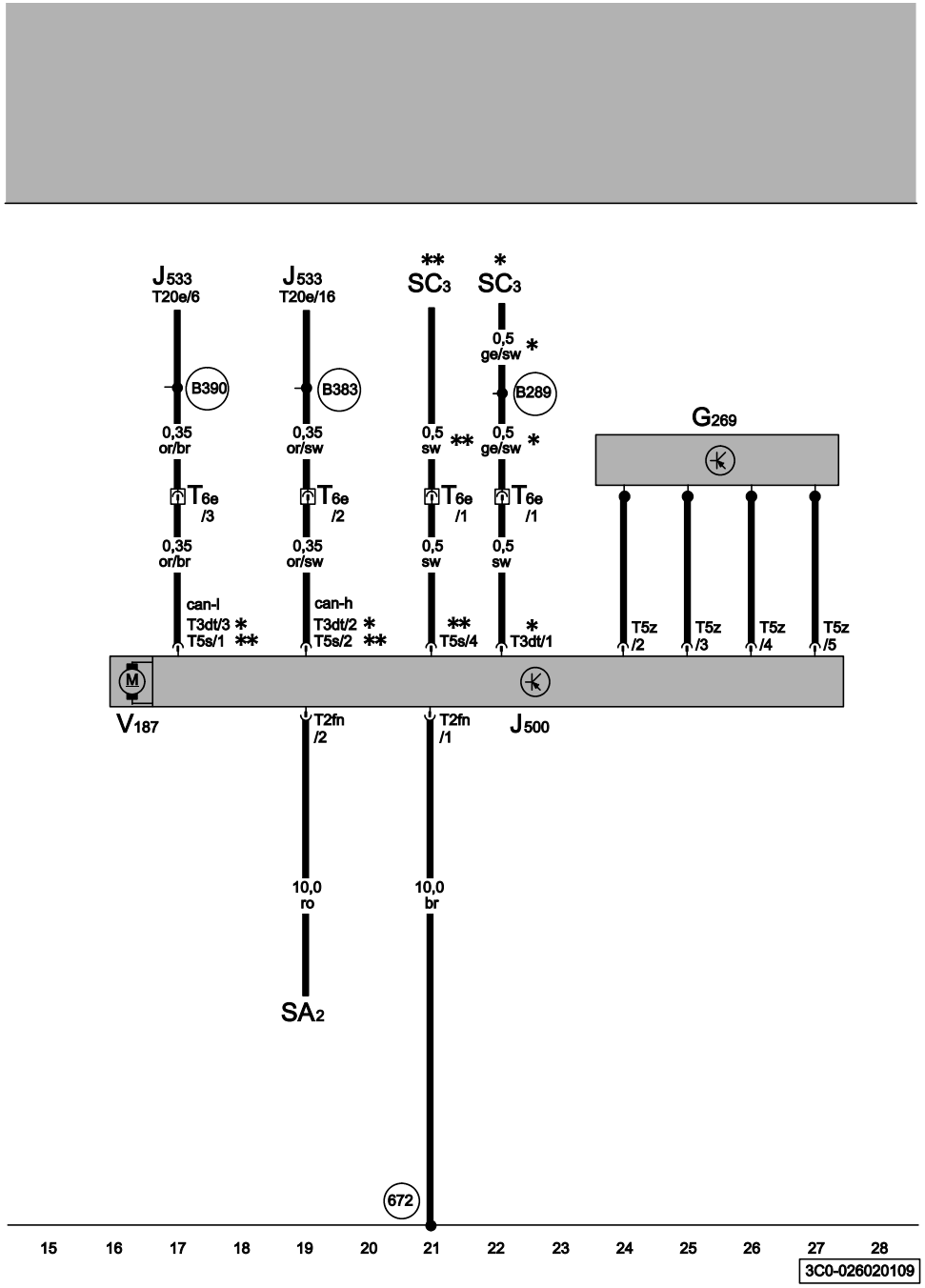
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Power steering control unit, steering moment sender, electromechanical power steering motor

G269	Steering moment sender
J500	Power steering control unit
J533	Data bus diagnosis interface
SA2	Fuse 2 on fuse holder A
SC3	Fuse 3 on fuse holder C
T2fn	2-pin connector, black
T3dt	3-pin connector
T5s	5-pin connector
T5z	5-pin connector, near steering moment sender
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T20e	20-pin connector
V187	Electromechanical power steering motor
672	Earth point 2, on front of left longitudinal member
B289	Connection 13 (15a), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
*	Applicable from May 2008
**	Applicable to April 2008

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Seat heating

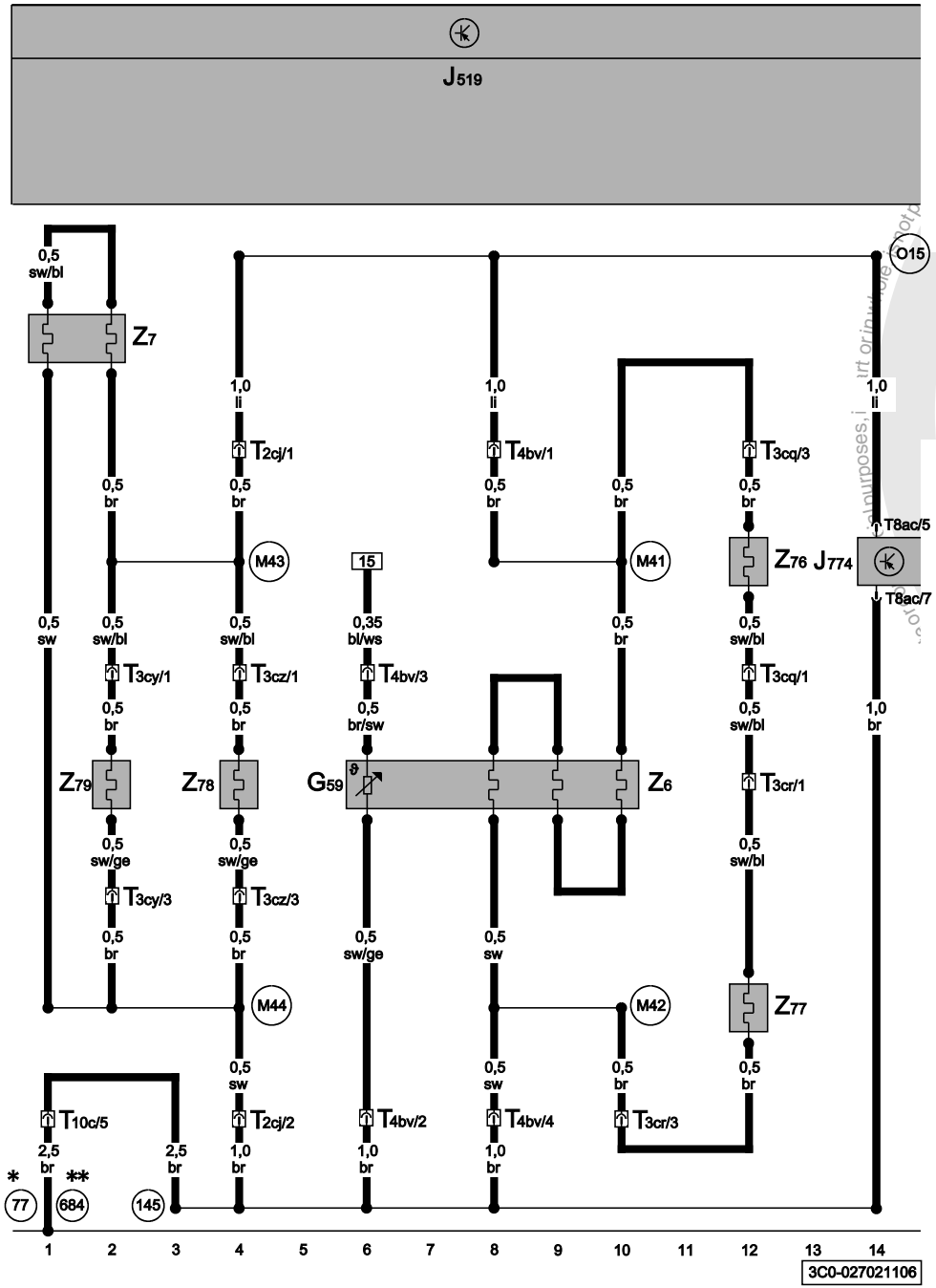
⇒ **Convenience leather seat**
⇒ **With backrest lateral support heater**
⇒ **With front seats backrest release**
⇒ **With seat ventilation passive/ front massage seat**
from November 2004

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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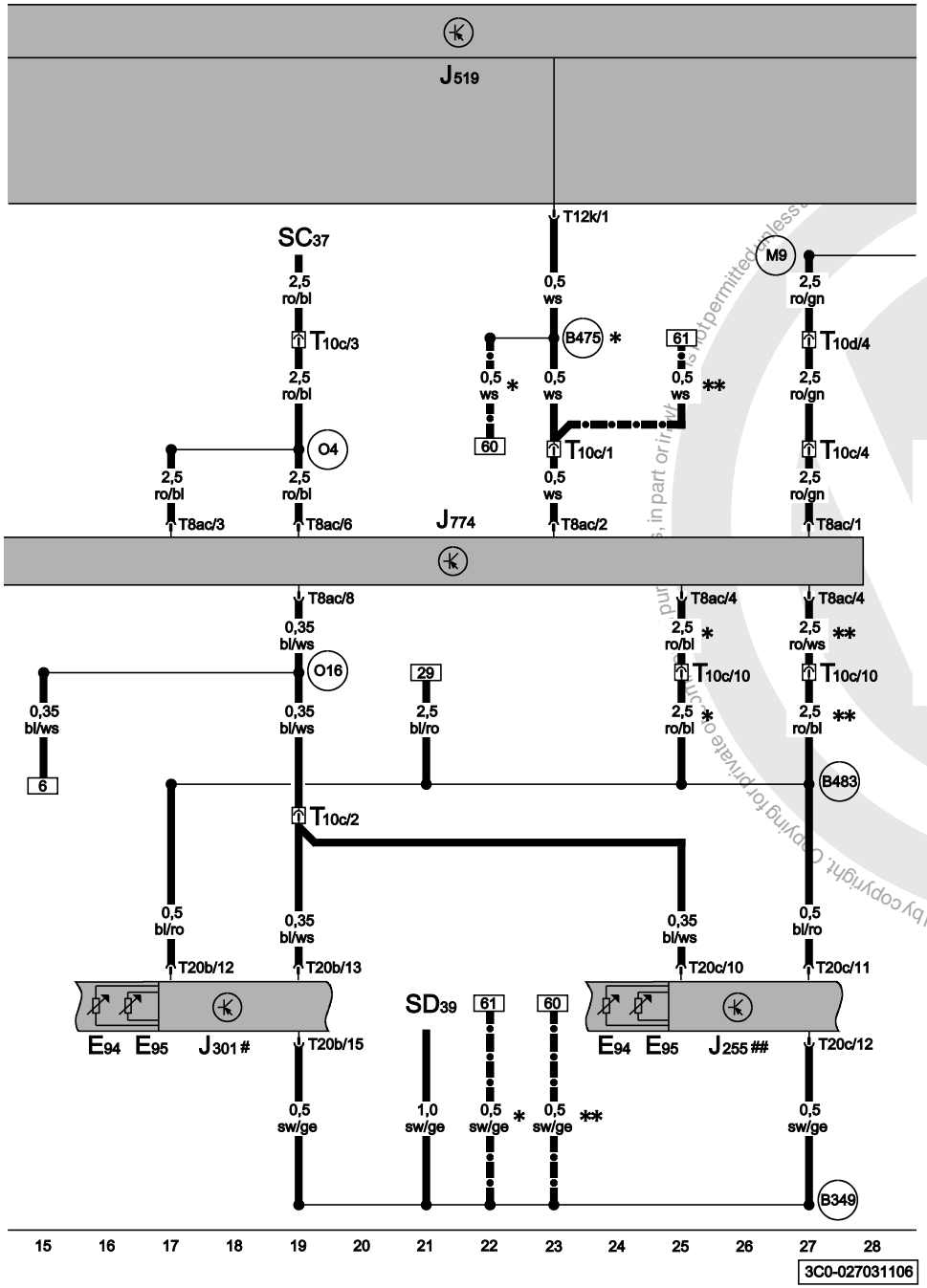


Heated cushion for driver seat, heated backrest for driver seat, lateral support heater

G59	Driver seat temperature sensor
J519	Onboard supply control unit
J774	Heated front seats control unit
T2cj	2-pin connector
T3cq	3-pin connector
T3cr	3-pin connector
T3cy	3-pin connector
T3cz	3-pin connector
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under the seat
Z6	Heated driver seat cushion
Z7	Heated driver seat backrest
Z76	Driver seat left lateral support heater
Z77	Driver seat right lateral support heater
Z78	Driver seat backrest left lateral support heater
Z79	Driver seat backrest right lateral support heater
77	Earth point, lower part of left B-pillar
145	Earth connection 3, in seat heating wiring harness
684	Earth point, on front of left longitudinal member
M41	Connection 1, in driver seat wiring harness
M42	Connection 2, in driver seat wiring harness
M43	Connection 3, in driver seat wiring harness
M44	Connection 4, in driver seat wiring harness
O15	Connection 4, in seat heating wiring harness
*	applicable up to April 2005
**	applicable from May 2005

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Heated front seats control unit, Climatronic control unit, air conditioning system control unit

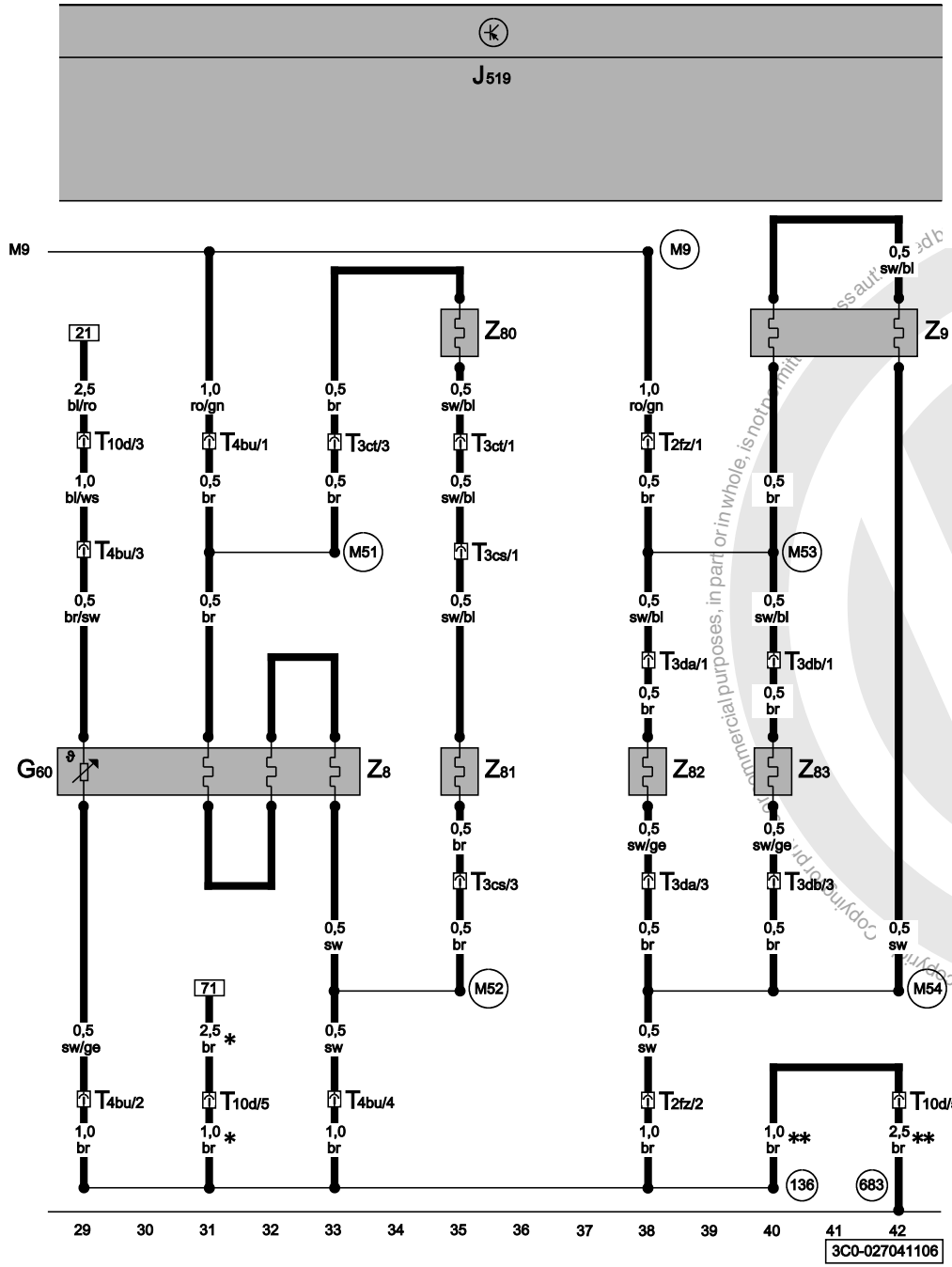
E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
J774	Heated front seats control unit
SC37	Fuse 37 on fuse holder C
SD39	Fuse 39 on fuse holder D
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under the seat
T10d	10-pin connector, black, coupling point front passenger side, under the seat
T12k	12-pin connector
T20b	20-pin connector, black
T20c	20-pin connector, on Climatronic/air conditioning system control unit
B349	Connection 2 (75A), in main wiring harness
B475	Connection 11, in main wiring harness
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness
O4	Positive connection (30as), in seat heating wiring harness
O16	Connection 5, in seat heating wiring harness
*	applicable up to April 2005
**	applicable from May 2005
#	only models with air conditioning system
##	only models with Climatronic
<fo:external-graphic src="/../PDOC/samba/tools/png-convert/out//slp/ft_icons/	only models with rear heated seat

ws = white

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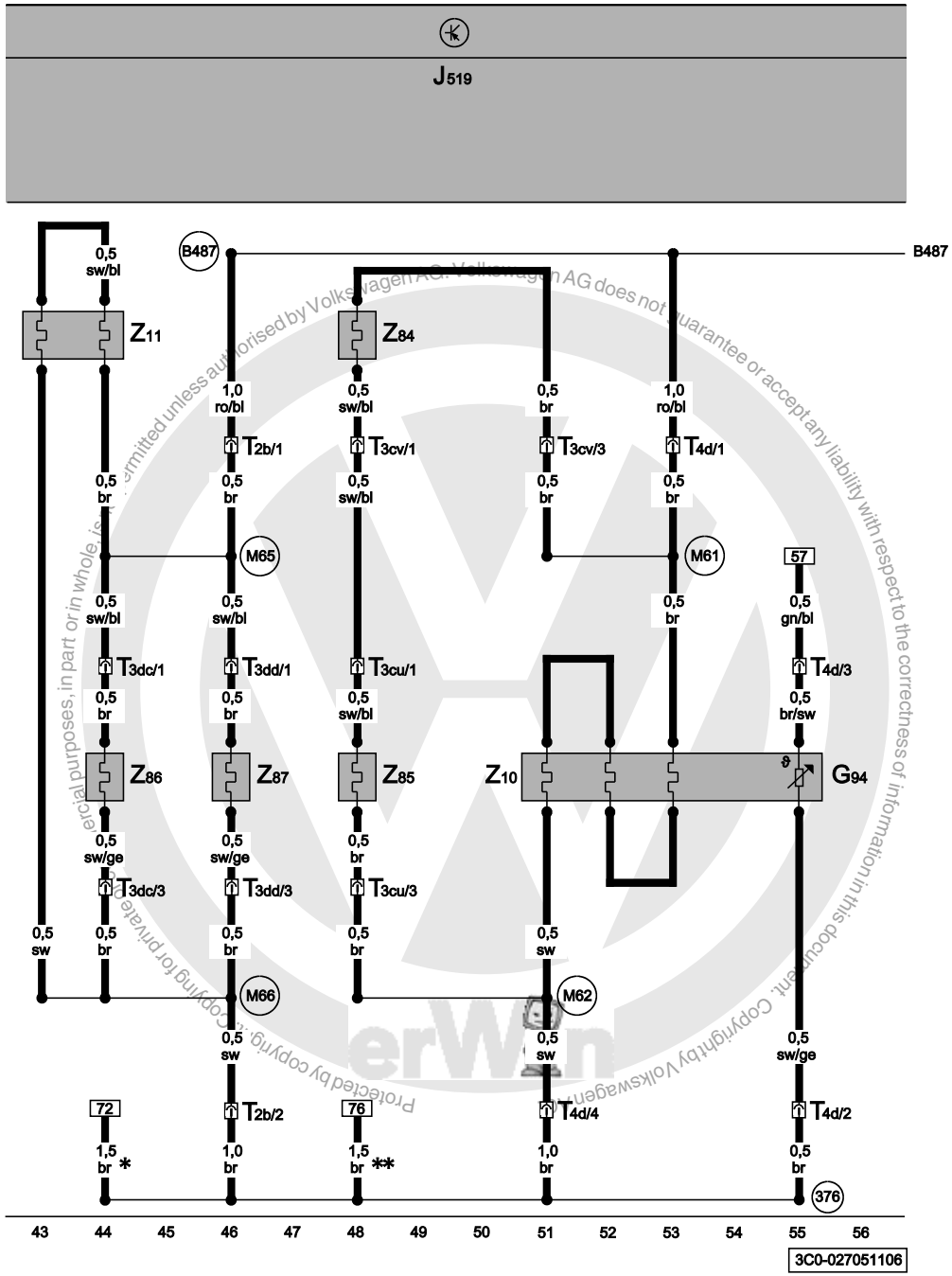


Heated seat cushion for front passenger seat, heated backrest for front passenger seat, lateral support heater

G60	Front passenger seat temperature sensor
J519	Onboard supply control unit
T2fz	2-pin connector
T3cs	3-pin connector
T3ct	3-pin connector
T3da	3-pin connector
T3db	3-pin connector
T4bu	4-pin connector, black, under front passenger seat
T10d	10-pin connector, black, coupling point front passenger side, under the seat
Z8	Heated front passenger seat cushion
Z9	Heated front passenger seat backrest
Z80	Front passenger seat left lateral support heater
Z81	Front passenger seat right lateral support heater
Z82	Front passenger seat backrest left lateral support heater
Z83	Front passenger seat backrest right lateral support heater
136	Earth connection 2, in seat heating wiring harness
683	Earth point, on front of right longitudinal member
M9	Connection, in seat adjustment wiring harness
M51	Connection 1, in front passenger seat wiring harness
M52	Connection 2, in front passenger seat wiring harness
M53	Connection 3, in front passenger seat wiring harness
M54	Connection 4, in front passenger seat wiring harness
*	applicable up to April 2005
**	applicable from May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
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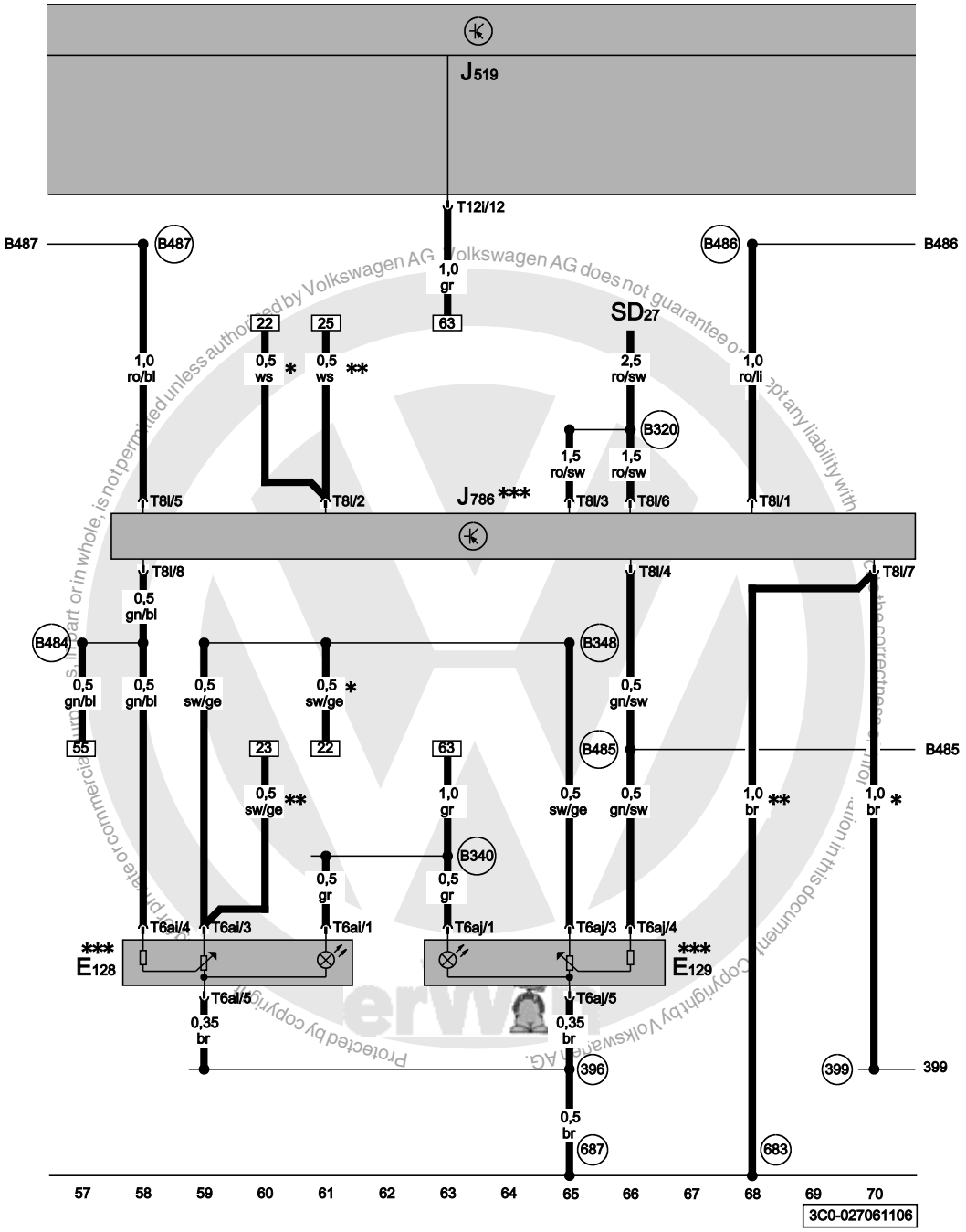


Heated rear left seat, heated backrest for rear left seat, lateral support heater

G94	Rear left seat temperature sensor
J519	Onboard supply control unit
T2b	2-pin connector
T3cu	3-pin connector
T3cv	3-pin connector
T3dc	3-pin connector
T3dd	3-pin connector
T4d	4-pin connector, black, undern left of rear seat
Z10	Heated rear left seat
Z11	Heated rear left seat backrest
Z84	Driver side rear seat left lateral support heater
Z85	Driver side rear seat right lateral support heater
Z86	Driver side rear seat left backrest lateral support heater
Z87	Driver side rear seat right backrest lateral support heater
376	Earth connection 11, in main wiring harness
B487	Connection 23, in main wiring harness
M61	Connection 1, in rear seat wiring harness
M62	Connection 2, in rear seat wiring harness
M65	Connection 5, in rear seat wiring harness
M66	Connection 6, in rear seat wiring harness
*	applicable up to April 2005
**	applicable from May 2005

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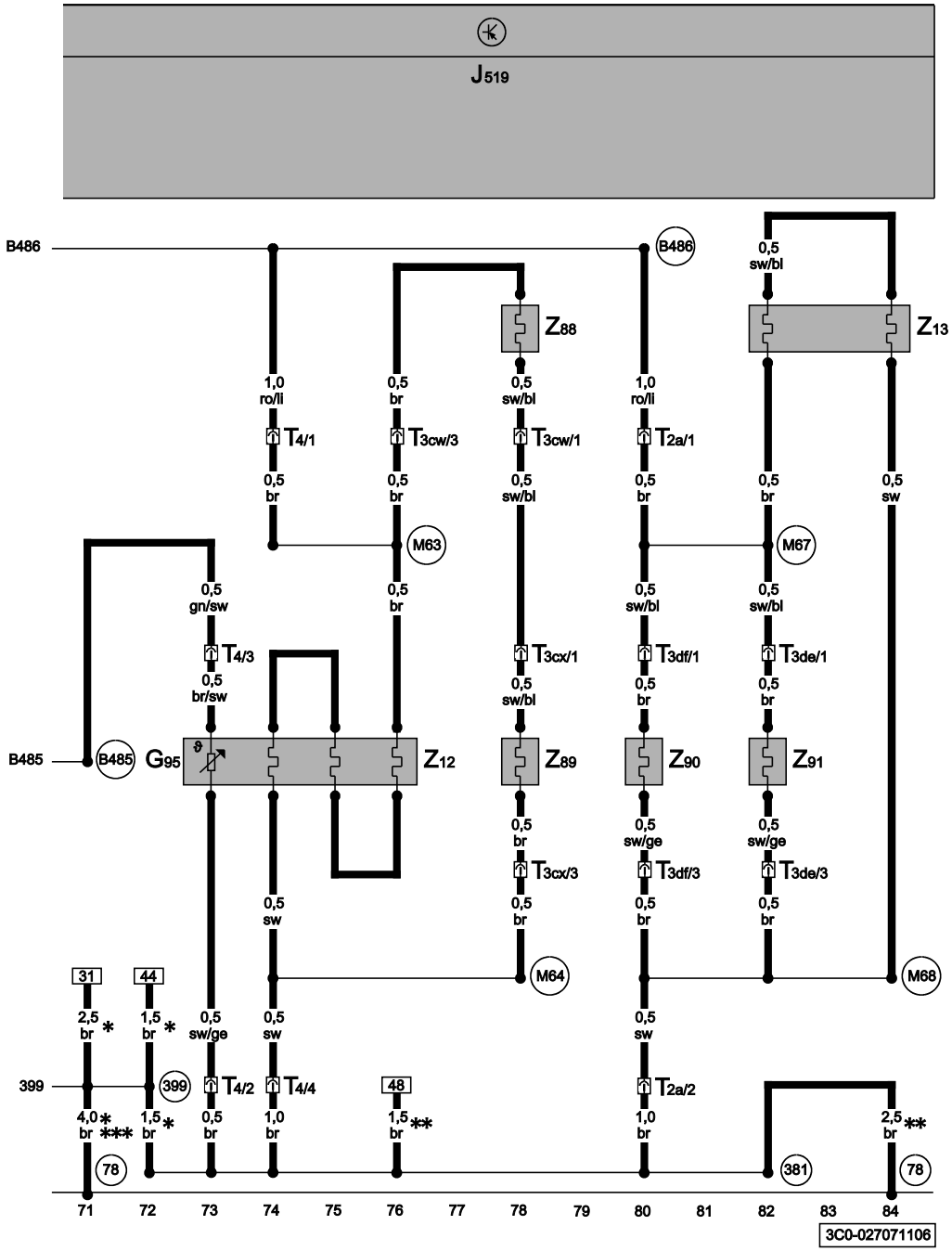
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Heated backrest control unit, heated rear seat switch with regulator

E128	Heated rear left seat switch with regulator
E129	Heated rear right seat switch with regulator
J519	Onboard supply control unit
J786	Heated backrest control unit
SD27	Fuse 27 on fuse holder D
T6ai	6-pin connector
T6aj	6-pin connector
T8l	8-pin connector
T12i	12-pin connector
396	Earth connection 31, in main wiring harness
399	Earth connection 34, in main wiring harness
683	Earth point, on front of right longitudinal member
687	Earth point 1, on centre tunnel
B320	Positive connection 6 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
B484	Connection 20, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
B487	Connection 23, in main wiring harness

* applicable up to April 2005
** applicable from May 2005
*** only models with rear heated seat

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Heated rear right seat, heated backrest for rear right seat, lateral support heater

G95	Rear right seat temperature sensor
J519	Onboard supply control unit
T2a	2-pin connector
T3cw	3-pin connector
T3cx	3-pin connector
T3de	3-pin connector
T3df	3-pin connector
T4	4-pin connector, black, undern right of rear seat
Z12	Heated rear right seat
Z13	Heated rear right seat backrest
Z88	Front passenger side rear seat left lateral support heater
Z89	Front passenger side rear seat right lateral support heater
Z90	Front passenger side rear seat left backrest lateral support heater
Z91	Front passenger side rear seat right backrest lateral support heater
78	Earth point, lower part of right B-pillar
381	Earth connection 16, in main wiring harness
399	Earth connection 34, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
M63	Connection 3, in rear seat wiring harness
M64	Connection 4, in rear seat wiring harness
M67	Connection 7, in rear seat wiring harness
M68	Connection 8, in rear seat wiring harness

* applicable up to April 2005
** applicable from May 2005
*** cross section are equipment dependant

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Garage door opener

From April 2005

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

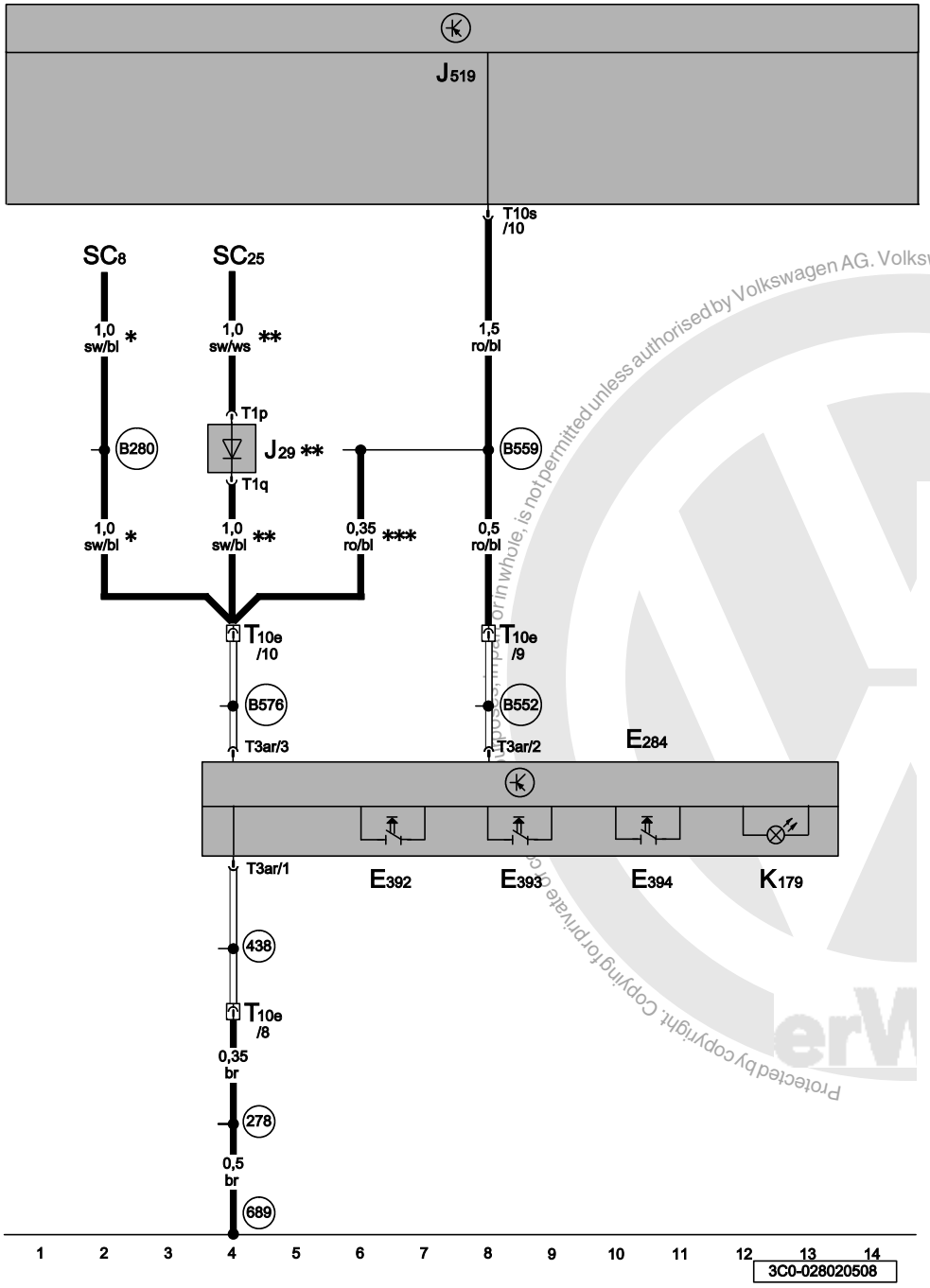
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Garage door operating unit, garage door opener button

E284	Garage door operating unit
E392	Garage door opener button 1
E393	Garage door opener button 2
E394	Garage door opener button 3
J29	Blocking diode
J519	Onboard supply control unit
K179	Garage door opener warning lamp
SC8	Fuse 8 on fuse holder C
SC25	Fuse 25 on fuse holder C
T1p	Single connector
T1q	Single connector
T3ar	3-pin connector
T10e	10-pin connector, black, coupling point for roof wiring harness
T10s	10-pin connector, black
278	Earth connection 4, in interior wiring harness
438	Earth connection 3, in roof wiring harness
689	Earth point, front centre of roof
B280	Connection 4 (15a), in main wiring harness
B552	Positive connection 2, in roof wiring harness
B559	Connection 1 (30g), in main wiring harness
B576	Positive connection (15), in roof wiring harness
	Flexible printed circuit
*	Applicable to April 2005
**	Applicable from May 2005
***	Applicable from May 2006

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Windscreen heater

From November 2004

Notes:

For information concerning

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- Multi-pin connectors
- Control units and relays
- Earth connections

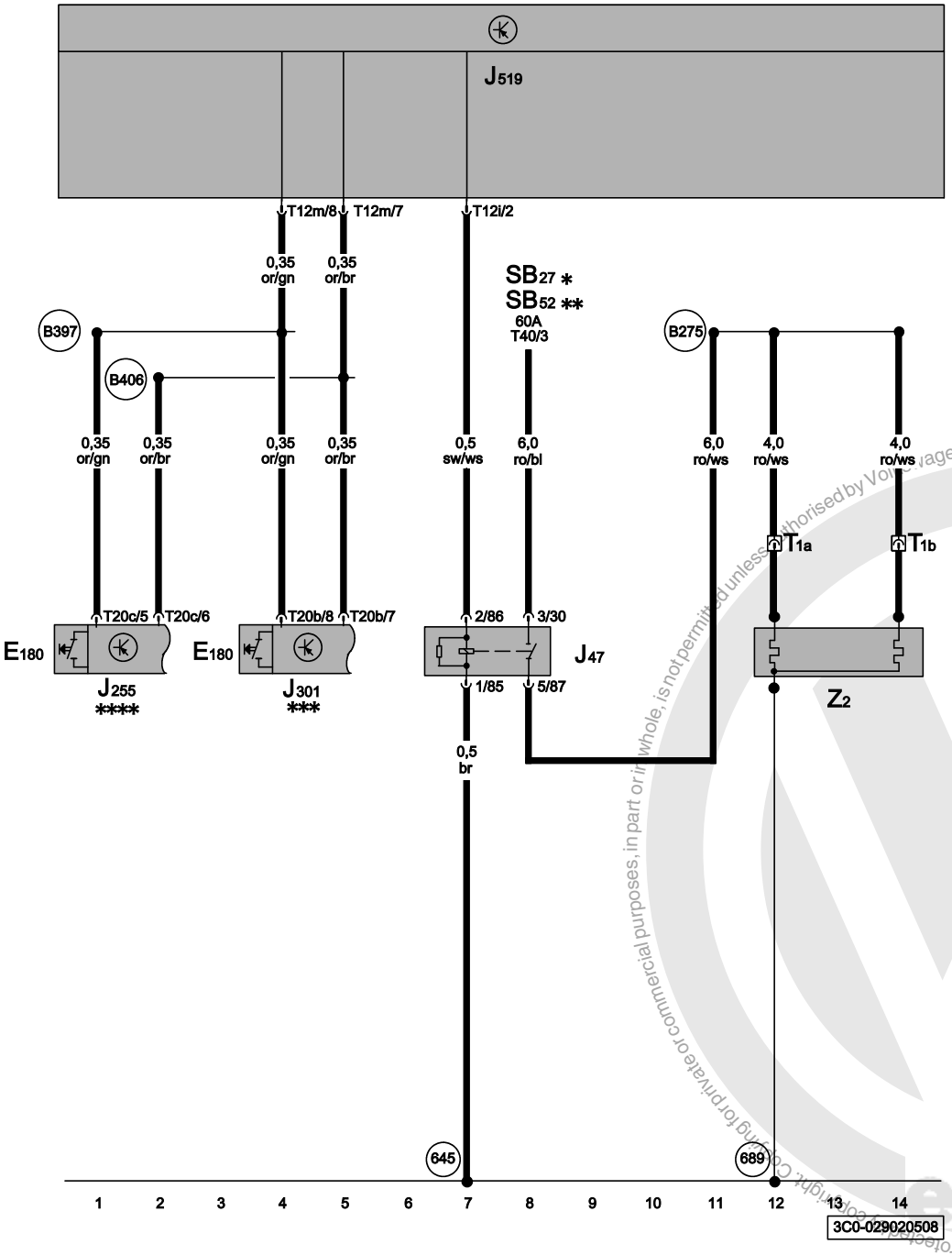
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Heated windscreen relay, heated windscreen, heated windscreen switch, Climatronic control unit, air conditioning system control unit, fuses

E180	Heated windscreen switch
J47	Heated windscreen relay
J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
SB27	Fuse 27 on fuse holder B
SB52	Fuse 52 on fuse holder B
T1a	Single connector, black
T1b	Single connector, black
T12i	12-pin connector, black
T12m	12-pin connector, black
T20b	20-pin connector, on air conditioning system control unit
T20c	20-pin connector, on Climatronic control unit
T40	40-pin connector
Z2	Heated windscreen
645	Earth point 1, on bulkhead
689	Earth point, front centre of roof
B275	Positive connection (87), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only models with E-box Low
**	Only models with E-box High
***	Only models with air conditioning system
****	Only models with Climatronic

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Entry and start authorisation (Kessy)

from November 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

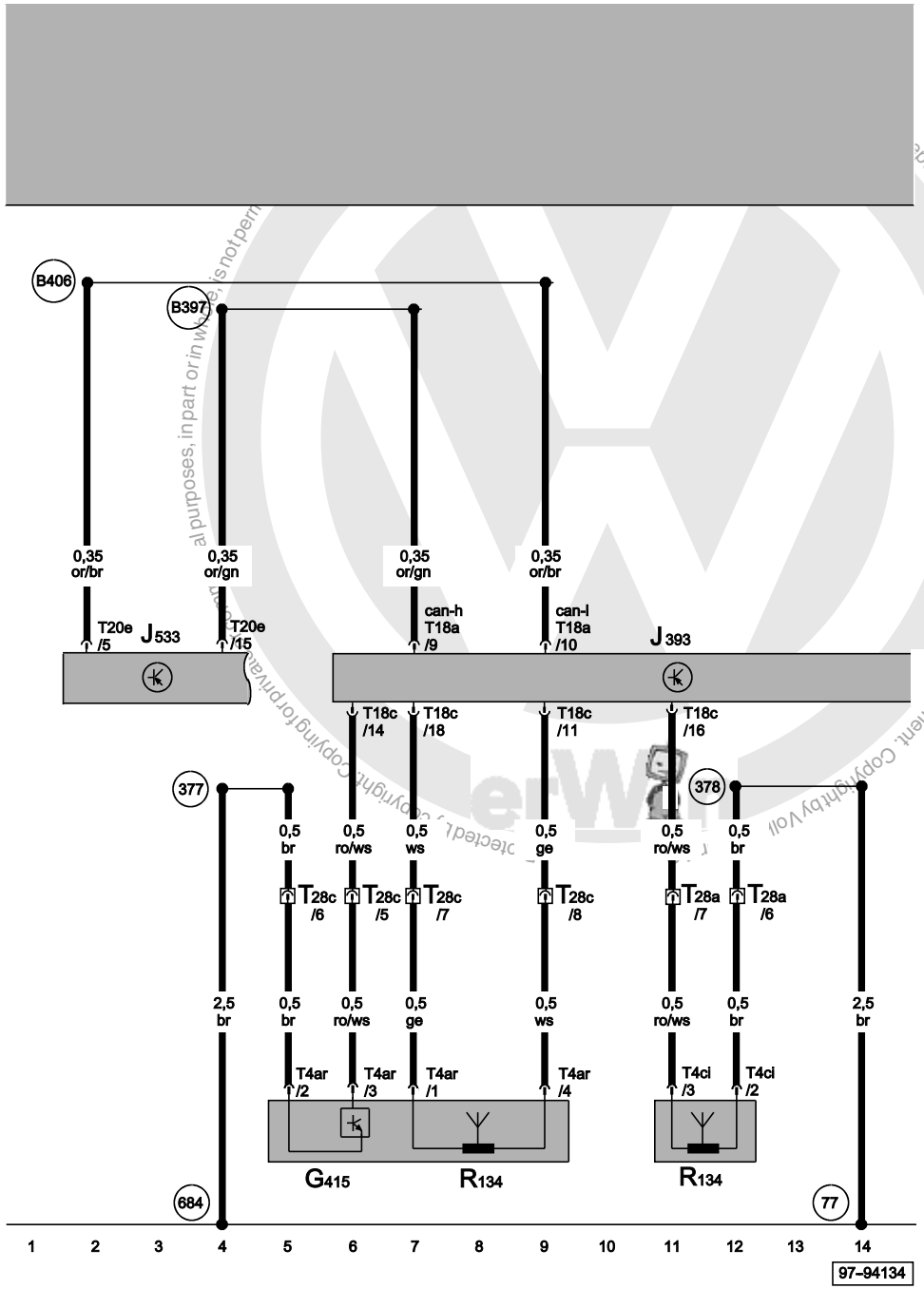
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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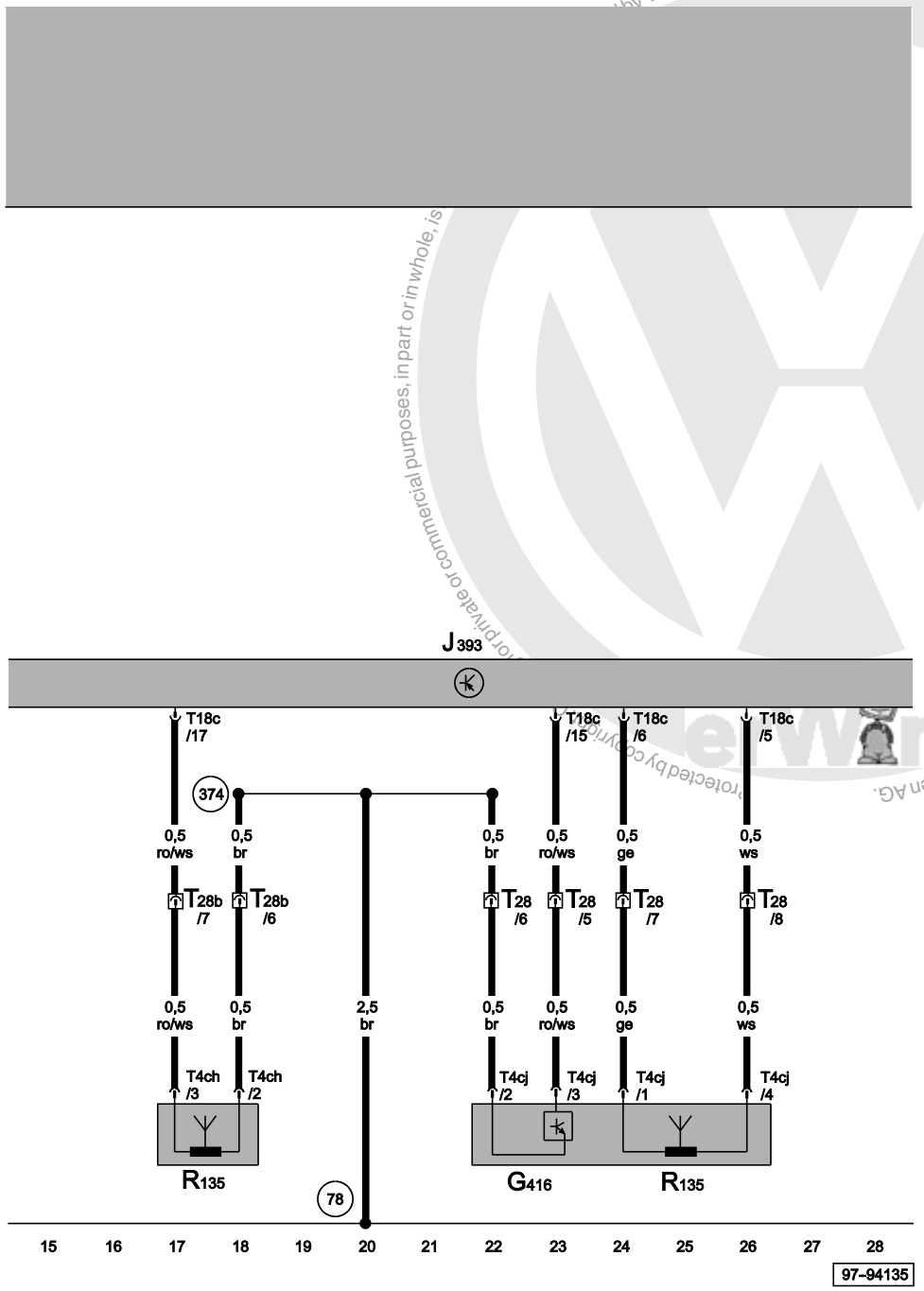


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gr = grey
li = purple
ge = yellow
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Convenience system central control unit, driver door exterior handle touch sensor, driver side aerial for entry and start authorisation

G415	Driver door exterior handle touch sensor
J393	Convenience system central control unit
J533	Data bus diagnostic interface
R134	Driver side aerial for entry and start authorisation
T4ar	4-pin connector
T4ci	4-pin connector
T18a	18-pin connector
T18c	18-pin connector
T20e	20-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28c	28-pin connector, coupling point, left A-pillar
77	Earth point, lower part of left B-pillar
377	Earth connection 12, in main wiring harness
378	Earth connection 13, in main wiring harness
684	Earth point, on front of left longitudinal member
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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Convenience system central control unit, front passenger door exterior handle touch sensor, front passenger side aerial for entry and start authorisation

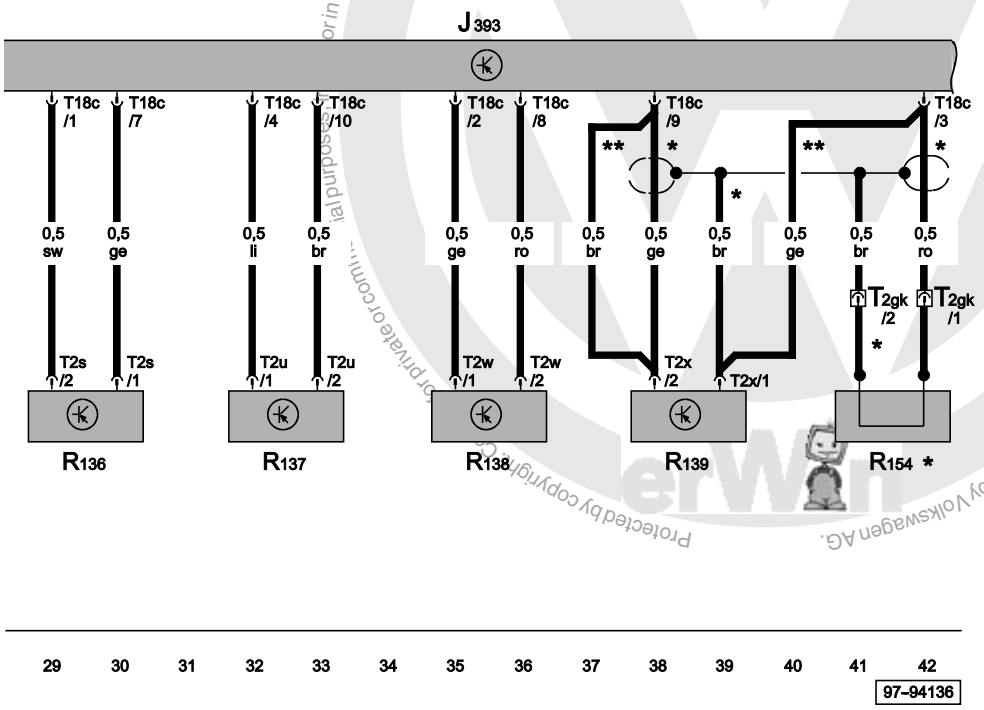
G416	Front passenger door exterior handle touch sensor
J393	Convenience system central control unit
R135	Front passenger side aerial for entry and start authorisation
T4ch	4-pin connector
T4cj	4-pin connector
T18c	18-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28b	28-pin connector, coupling point, right B-pillar
78	Earth point, lower part of right B-pillar
374	Earth connection 9, in main wiring harness

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Convenience system central control unit, aerials

J393	Convenience system central control unit
R136	Rear bumper aerial for entry and start authorisation
R137	Luggage compartment aerial for entry and start authorisation
R138	Interior aerial 1 for entry and start authorisation
R139	Interior aerial 2 for entry and start authorisation
R154	Entry and start authorisation aerial 3 in interior
T2gk	2-pin connector
T2s	2-pin connector
T2u	2-pin connector
T2w	2-pin connector
T2x	2-pin connector
T18c	18-pin connector
*	only saloon
**	only Variant



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Second battery

⇒ **for models with auxiliary coolant heater only**

From May 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

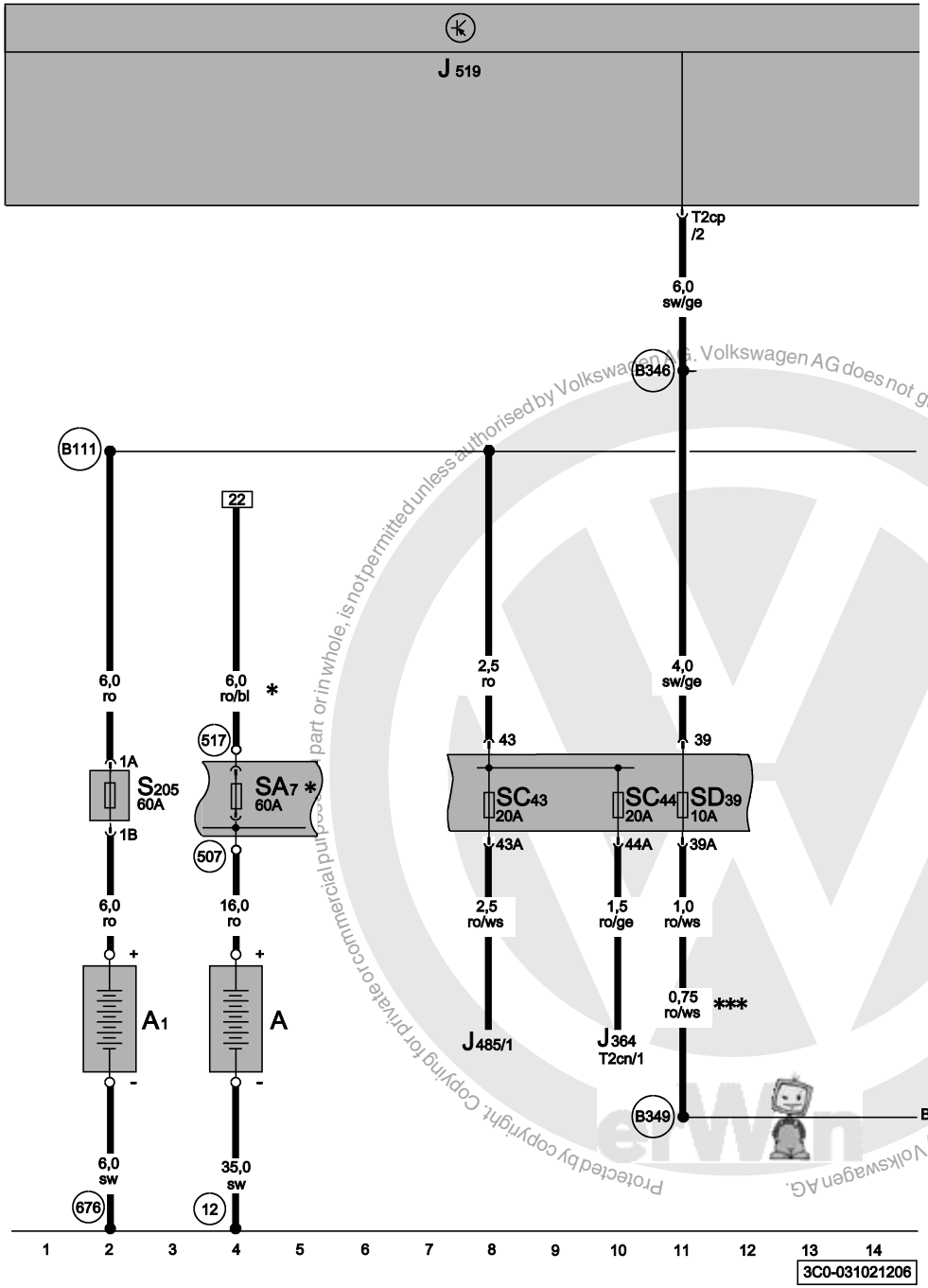
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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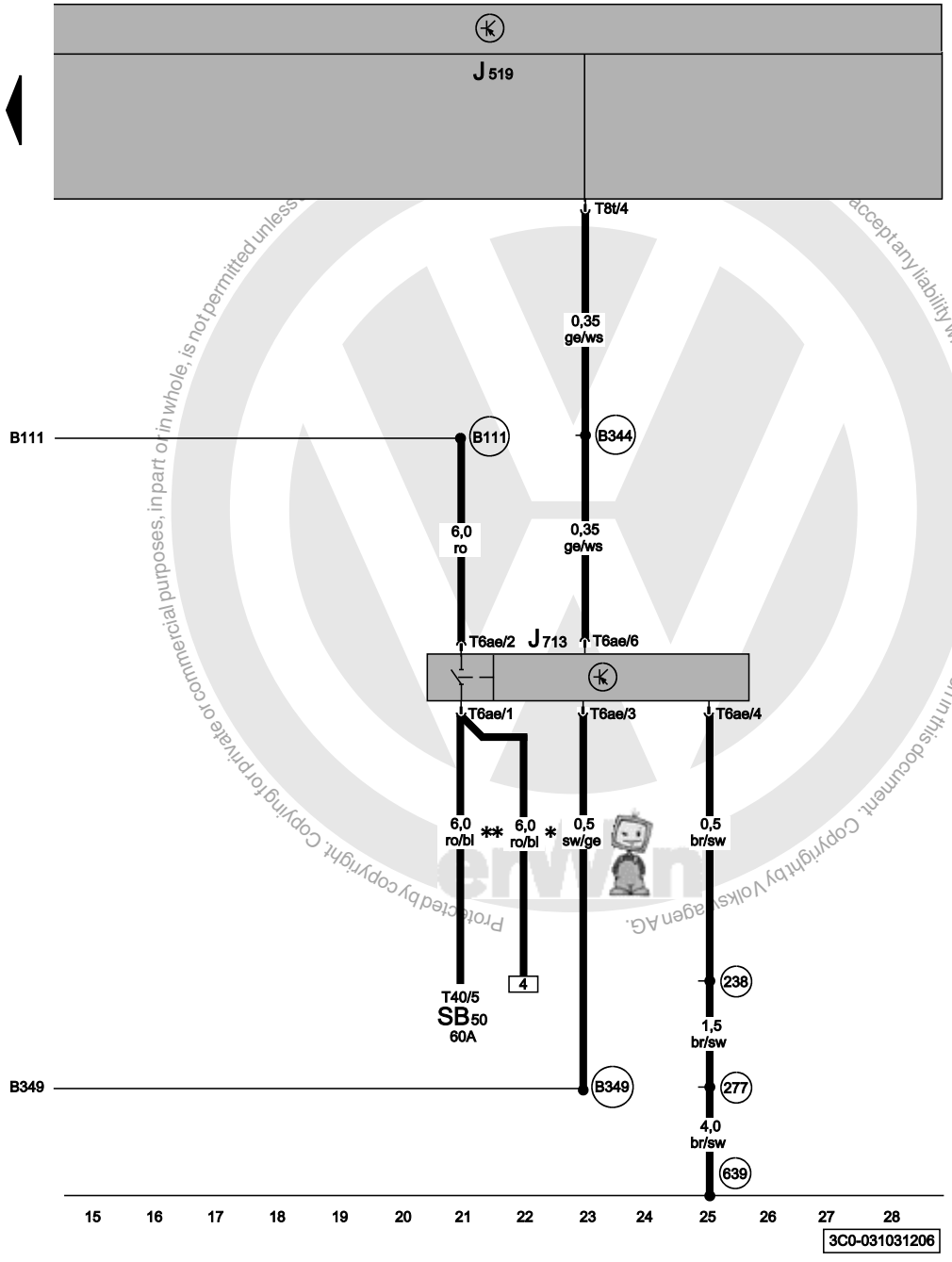


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gn = green
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Battery, second battery, auxiliary heater operation relay, auxiliary heater control unit, fuses

A	Battery
A1	Second battery
J364	Auxiliary heater control unit
J485	Auxiliary heater operation relay
J519	Onboard supply control unit
S205	Fuse 2 (30), near second battery
SA7	Fuse 7 on fuse holder A
SC43	Fuse 43 on fuse holder C
SC44	Fuse 44 on fuse holder C
SD39	Fuse 39 on fuse holder D
T2cn	2-pin connector
T2cq	2-pin connector
12	Earth point, on left in engine compartment
507	Threaded connection (30), on fuse holder on battery
517	Threaded connection 7 (30a) on relay plate
676	Earth point 2, on left in luggage compartment
B111	Positive connection 1 (30a), in interior wiring harness
B346	Connection 1 (75), in main wiring harness
B349	Connection 2 (75A) in main wiring harness
*	Models with E-box low only
***	applicable from November 2006

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Second battery charging circuit relay, fuses

J519 Onboard supply control unit
J713 Second battery charging circuit relay
SB50 Fuse 50 on fuse holder B
T6ae 6-pin connector
T8t 8-pin connector
T40 40-pin connector

238 Earth connection 1, in interior wiring harness

277 Earth connection 3, in interior wiring harness

639 Earth point, left A-pillar

B111 Positive connection 1 (30a), in interior wiring harness

B344 Connection 1 (61), in main wiring harness

B349 Connection 2 (75A) in main wiring harness

* Models with E-box low only
** Models with E-box high only

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2.0 l/125 kW - Turbodiesel, engine code BMR

from February 2006

2.0 l/120 kW - Turbodiesel, engine code BUZ

from March 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

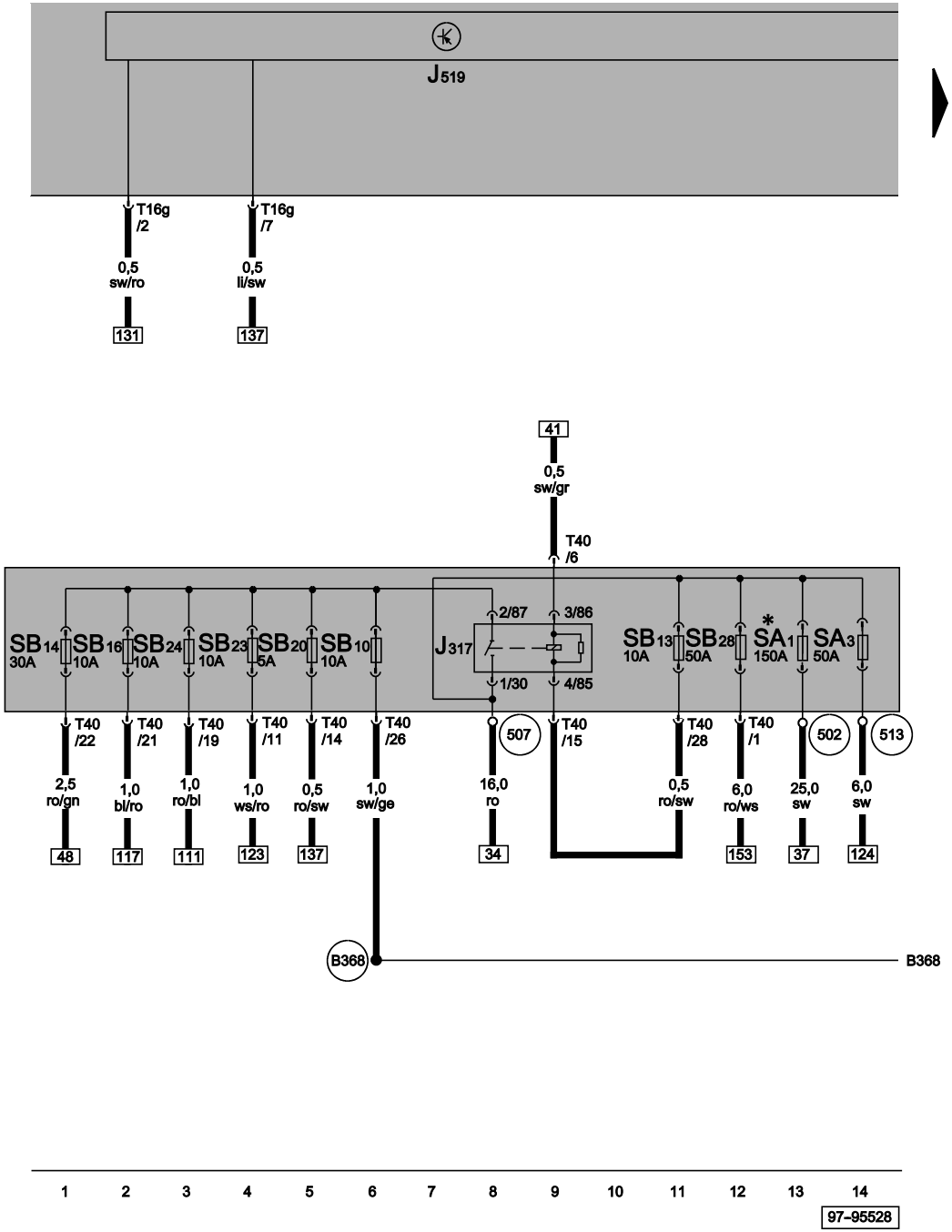
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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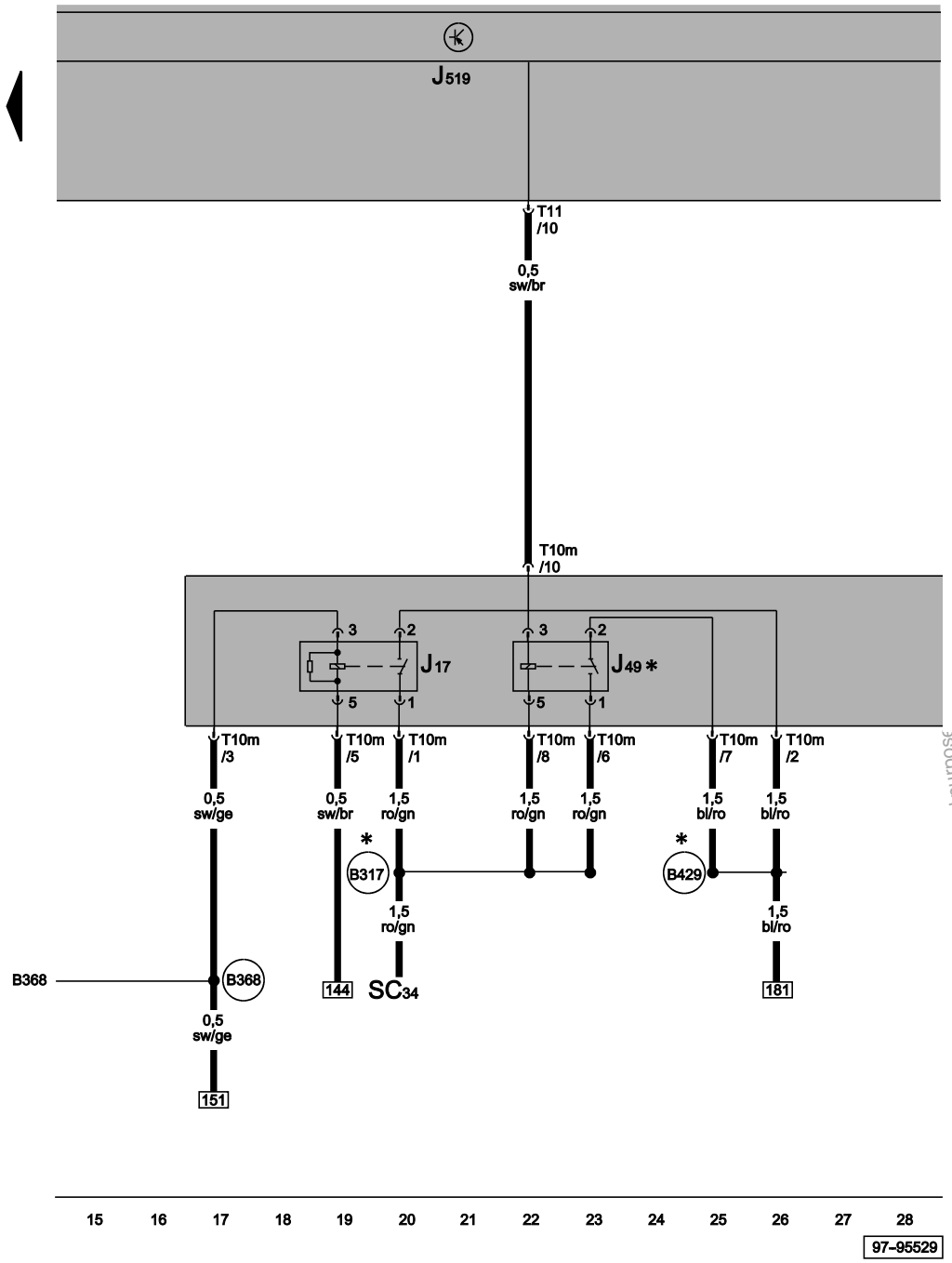


SA-fuses, SB-fuses, terminal 30 voltage supply relay

J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
T16g	16-pin connector, black
T40	40-pin connector, under electronics box, in engine compartment
502	Screw connection 1 (30a), on relay plate
507	Screw connection (30), on fuse holder on battery
513	Screw connection 3 (30a), on relay plate
B368	Positive connection 19 (87a), in main wiring harness
*	is dropped in vehicles models with 180 A alternator

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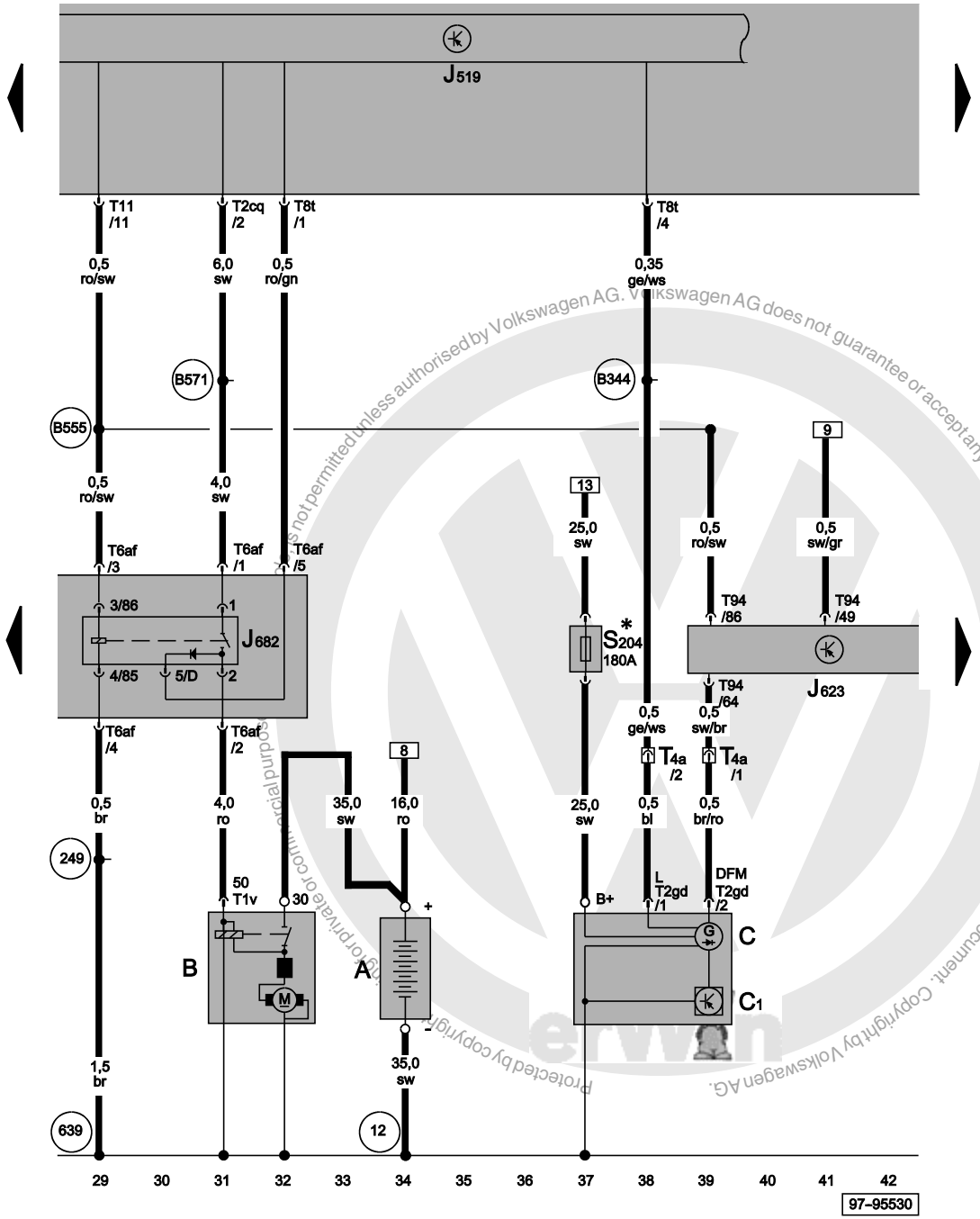


Electric fuel pump 2 relay, fuel pump relay

J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J519	Onboard supply control unit
SC34	Fuse 34 on fuse holder C
T10m	10-pin connector, on electronics box
T11	11-pin connector, black
B317	Positive connection 3 (30a), in main wiring harness
B368	Positive connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	only models with auxiliary heater

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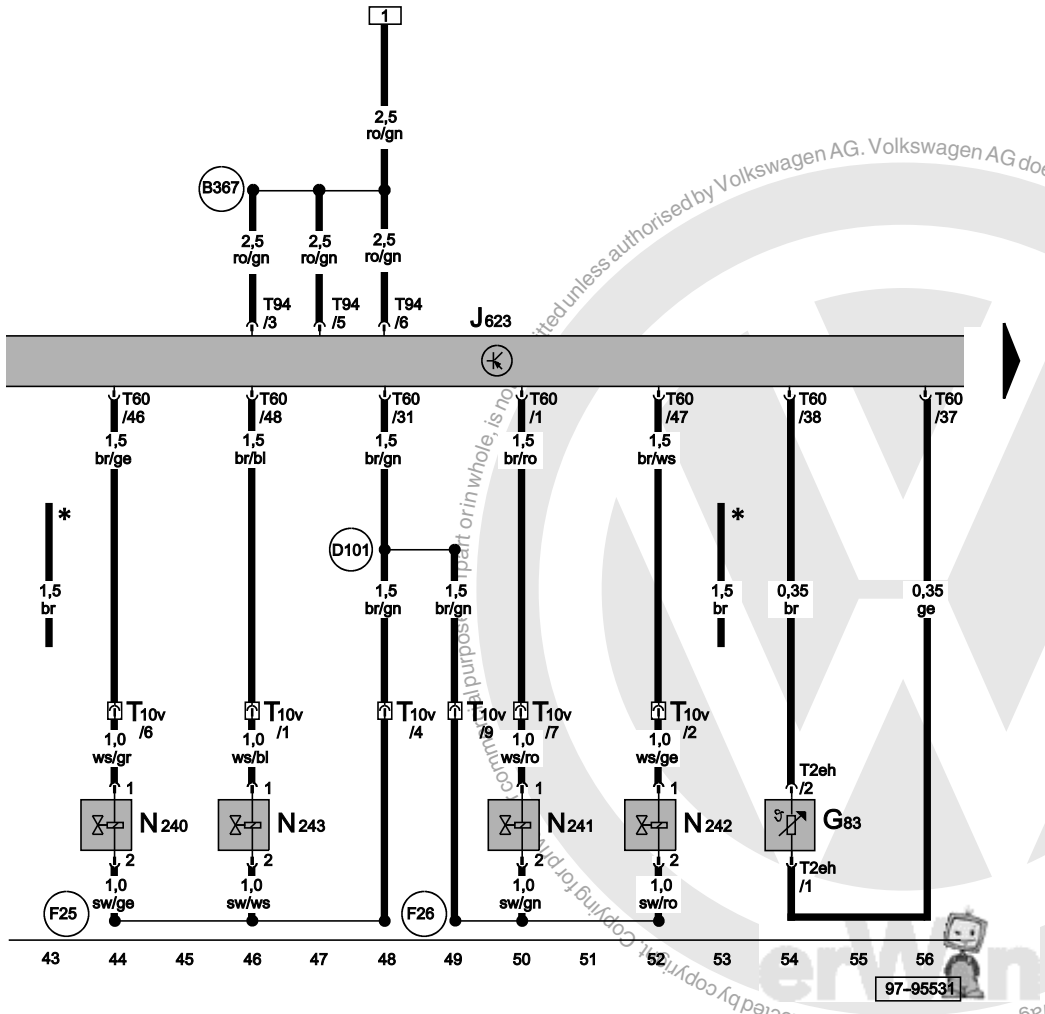
Terminals 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
S204	Fuse 1 (30)
T1v	Single connector
T2cq	2-pin connector, black
T2gd	2-pin connector
T4a	4-pin connector, near starter
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
T94	94-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	only models with 180 A alternator

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Engine control unit, radiator outlet coolant temperature sender, unit injector valves, No. 1 cyl. to No. 4

G83	Radiator outlet coolant temperature sender
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
T2eh	2-pin connector
T10v	10-pin connector, on left of cylinder head
T60	60-pin connector
T94	94-pin connector
B367	Positive connection 18 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
F25	Connection 1, in diesel direct injection system wiring harness
F26	Connection 2, in diesel direct injection system wiring harness
*	unused cable

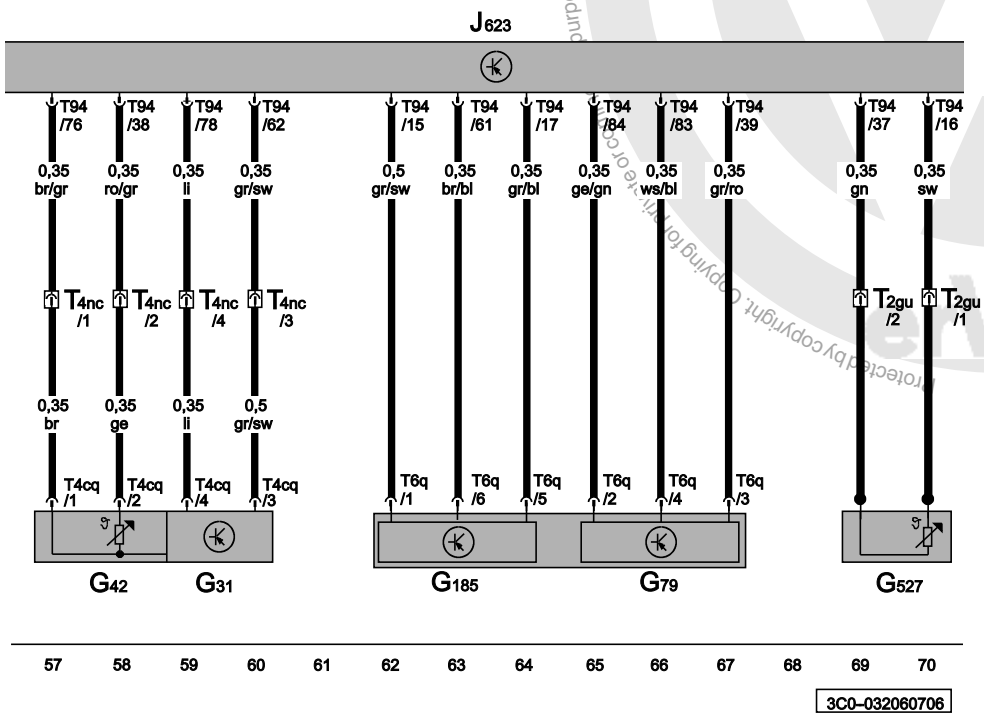


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Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender 2, temperature sender after particulate filter

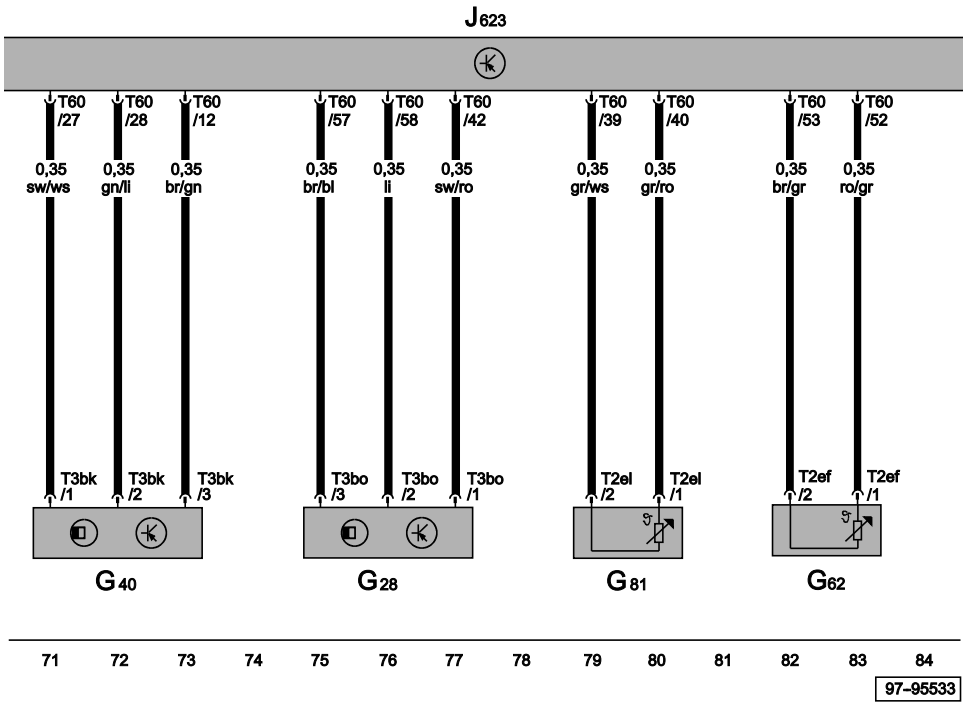
G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G527	Temperature sender after particulate filter
J623	Engine control unit
T2gu	2-pin connector
T4cq	4-pin connector
T4nc	4-pin connector
T6q	6-pin connector
T94	94-pin connector



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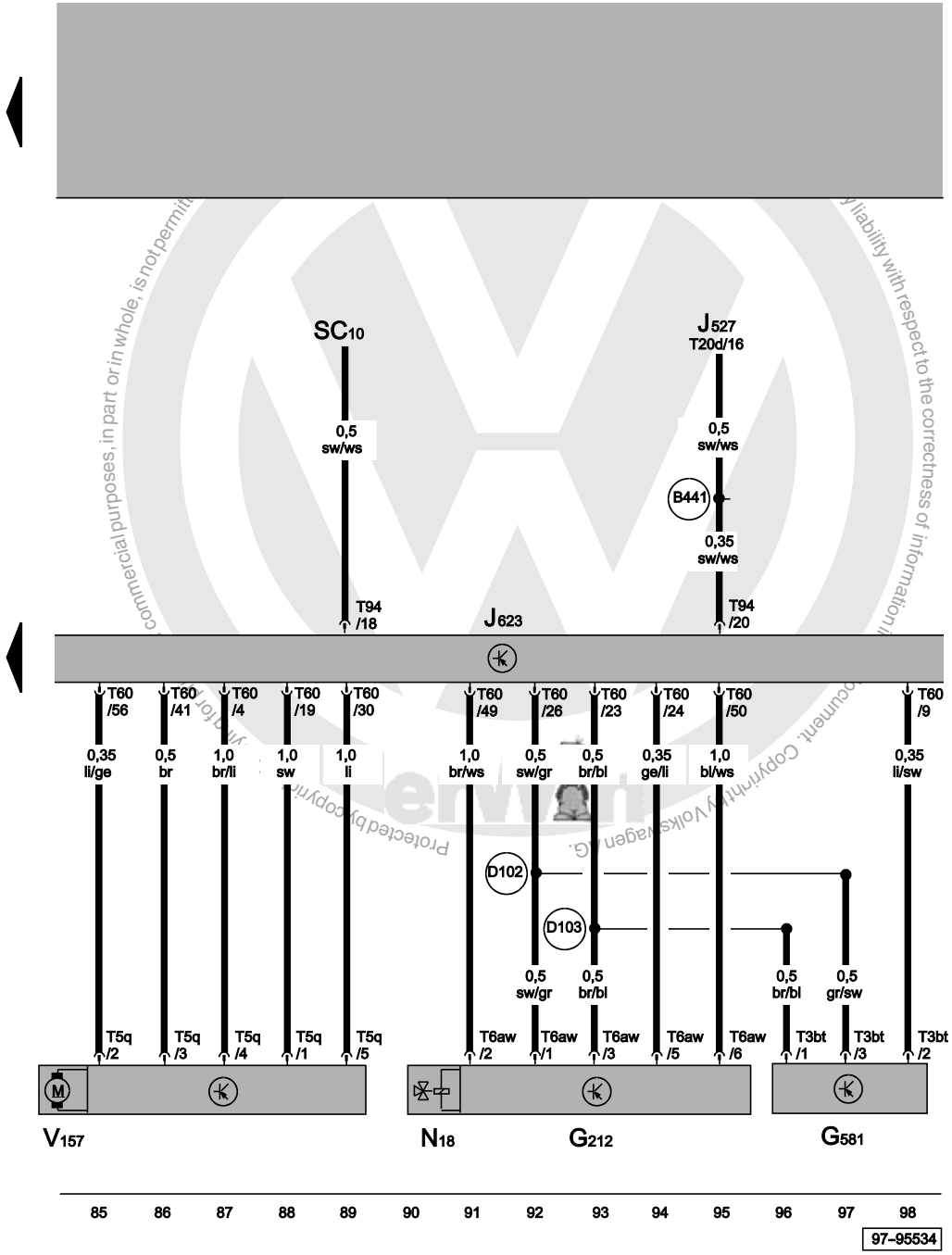


Engine control unit, engine speed sender, Hall sender, fuel temperature sender, coolant temperature sender, fuel temperature sender

G28	Engine speed sender
G40	Hall sender
G62	Coolant temperature sender
G81	Fuel temperature sender
J623	Engine control unit
T2ef	2-pin connector
T2el	2-pin connector
T3bk	3-pin connector, black
T3bo	3-pin connector
T60	60-pin connector

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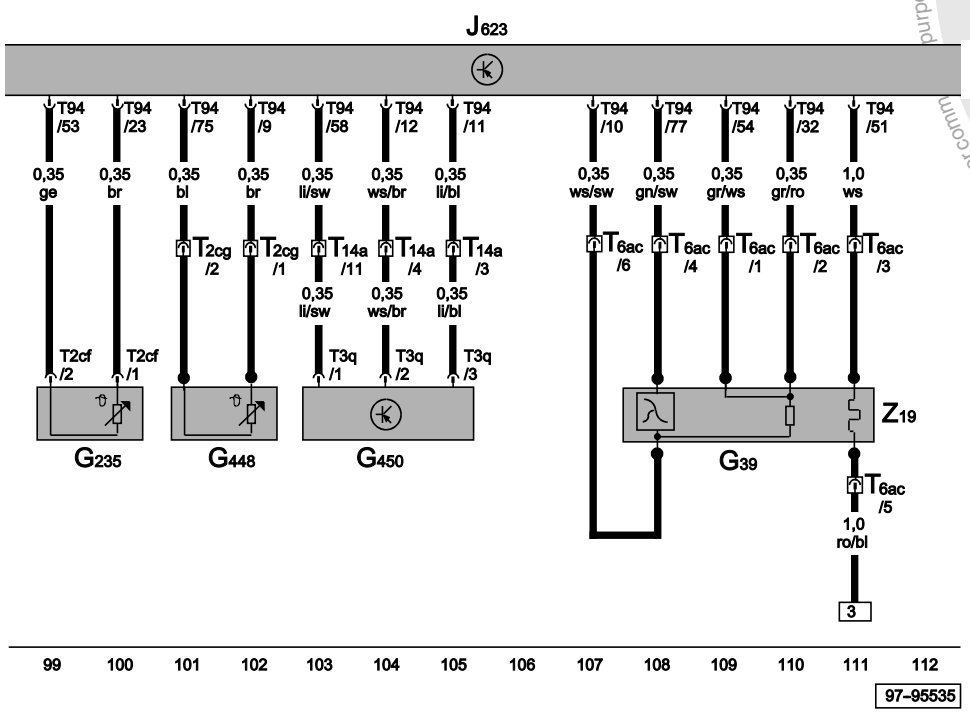
Engine control unit, intake manifold flap motor, exhaust gas recirculation potentiometer, exhaust gas recirculation valve

G212	Exhaust gas recirculation potentiometer
G581	Position sender for charge pressure positioner
J527	Steering column electronics control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
SC10	Fuse 10 on fuse holder C
T3bt	3-pin connector
T5q	5-pin connector
T6aw	6-pin connector
T20d	20-pin connector
T60	60-pin connector
T94	94-pin connector
V157	Intake manifold flap motor
B441	Connection (CCS), in main wiring harness
D102	Connection 2, in engine compartment wiring harness
D103	Connection 3, in engine compartment wiring harness

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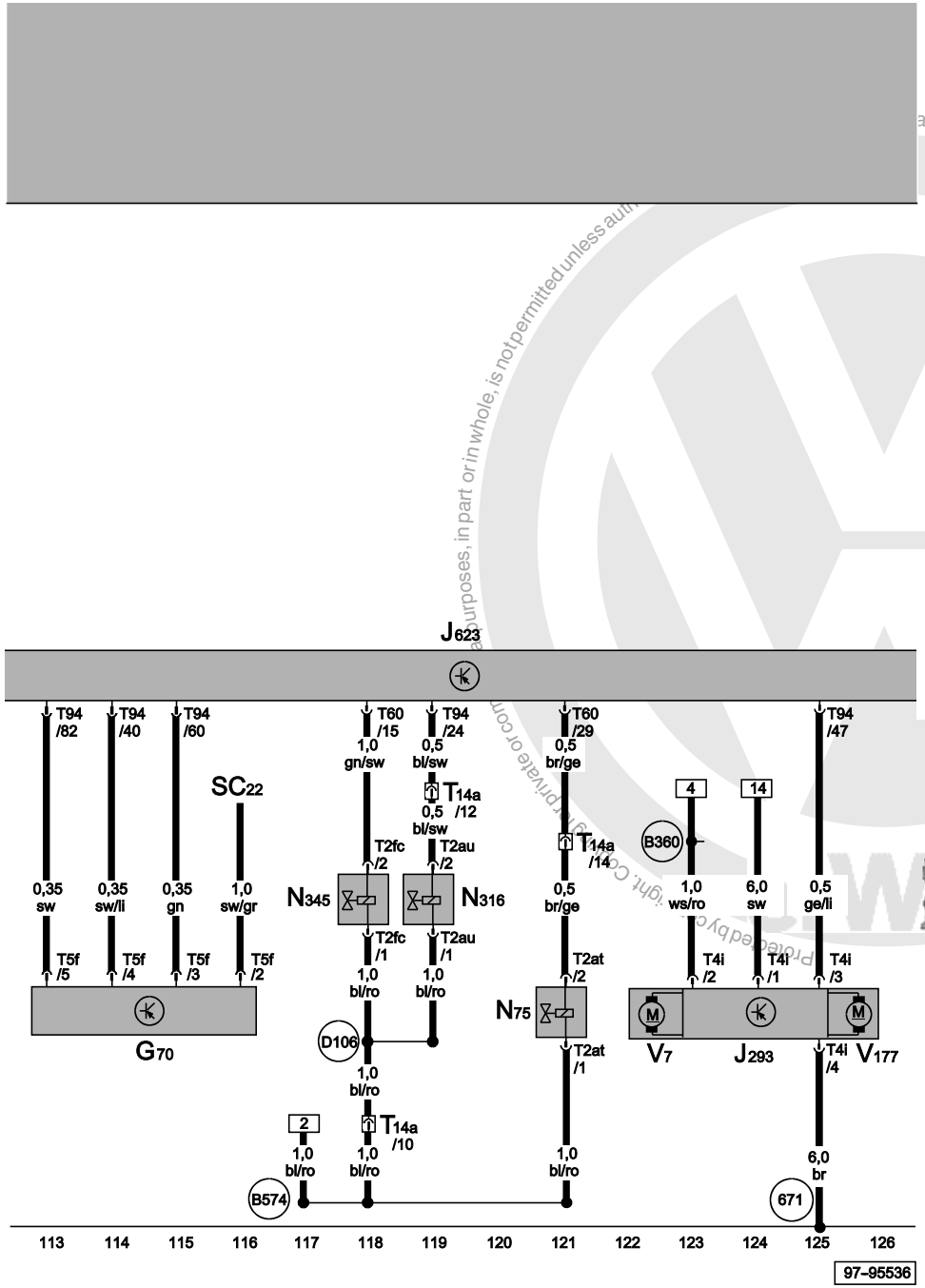
Engine control unit, lambda probe, exhaust gas pressure sensor 1, exhaust gas temperature sender 1, bank 1 exhaust gas temperature sender 2

G39	Lambda probe
G235	Exhaust gas temperature sender 1
G448	Bank 1 exhaust gas temperature sender 2
G450	Exhaust gas pressure sensor 1
J623	Engine control unit
T2cf	2-pin connector
T2cg	2-pin connector
T3q	3-pin connector
T6ac	6-pin connector, connector point lambda probe
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T94	94-pin connector
Z19	Lambda probe heater



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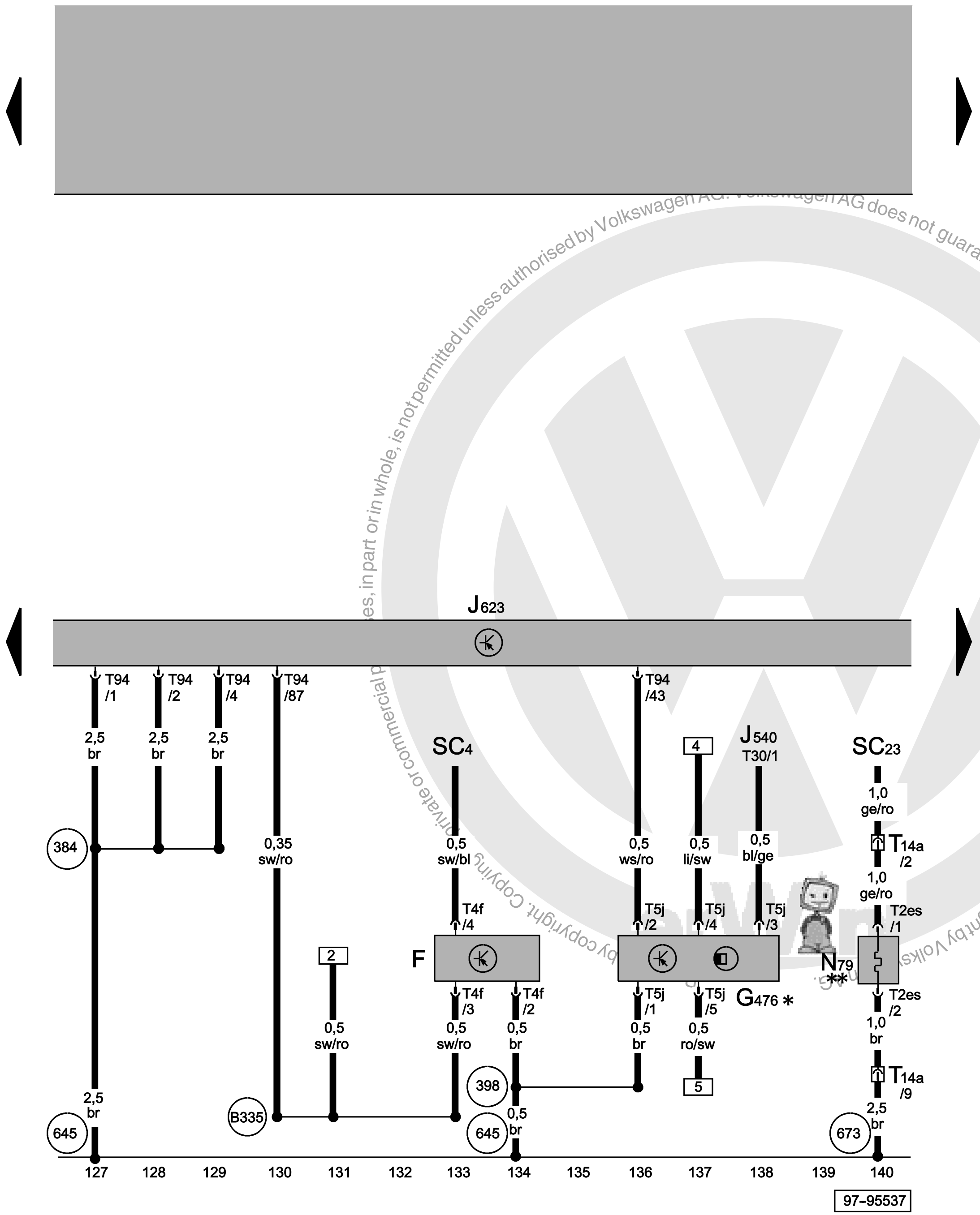


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Engine control unit, radiator fan control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler change-over valve

G70	Air mass meter
J293	Radiator fan control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N316	Intake manifold flap valve
N345	Exhaust gas recirculation cooler change-over valve
SC22	Fuse 22 on fuse holder C
T2au	2-pin connector
T2at	2-pin connector
T2fc	2-pin connector
T4i	4-pin connector
T5f	5-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B360	Positive connection 11 (87a), in main wiring harness
B574	Positive connection 20 (87a), in main wiring harness
D106	Connection 4, in engine compartment wiring harness

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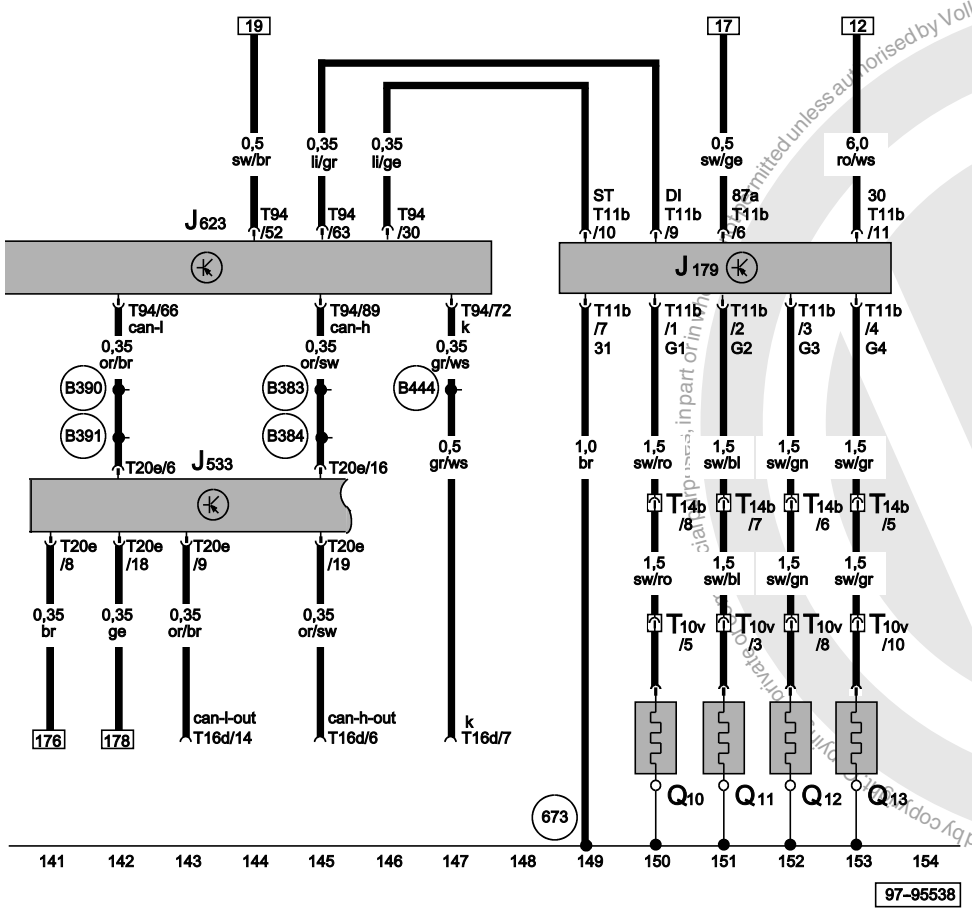
Engine control unit, clutch position sender, brake light switch, heater element for crankcase breather

F	Brake light switch
G476	Clutch position sender
J540	Electric park and handbrake control unit
J623	Engine control unit
N79	Heater element for crankcase breather
SC4	Fuse 4 on fuse holder C
SC23	Fuse 23 on fuse holder C
T2es	2-pin connector
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T30	30-pin connector
T94	94-pin connector
384	Earth connection 19, in main wiring harness
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
673	Earth point 3, on front of left longitudinal member
B335	Connection 1 (54), in main wiring harness
*	models with manual gearbox
**	models for cold countries only

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Engine control unit, automatic glow period control unit, glow plugs 1 to 4, data bus diagnostic interface, self-diagnosis connection

J179	Automatic glow period control unit
J533	Data bus diagnostic interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T10v	10-pin connector, on left of cylinder head
T14b	14-pin connector, coupling point 2 in left engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T31	31-pin connector
T94	94-pin connector
673	Earth point 3, on front of left longitudinal member
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

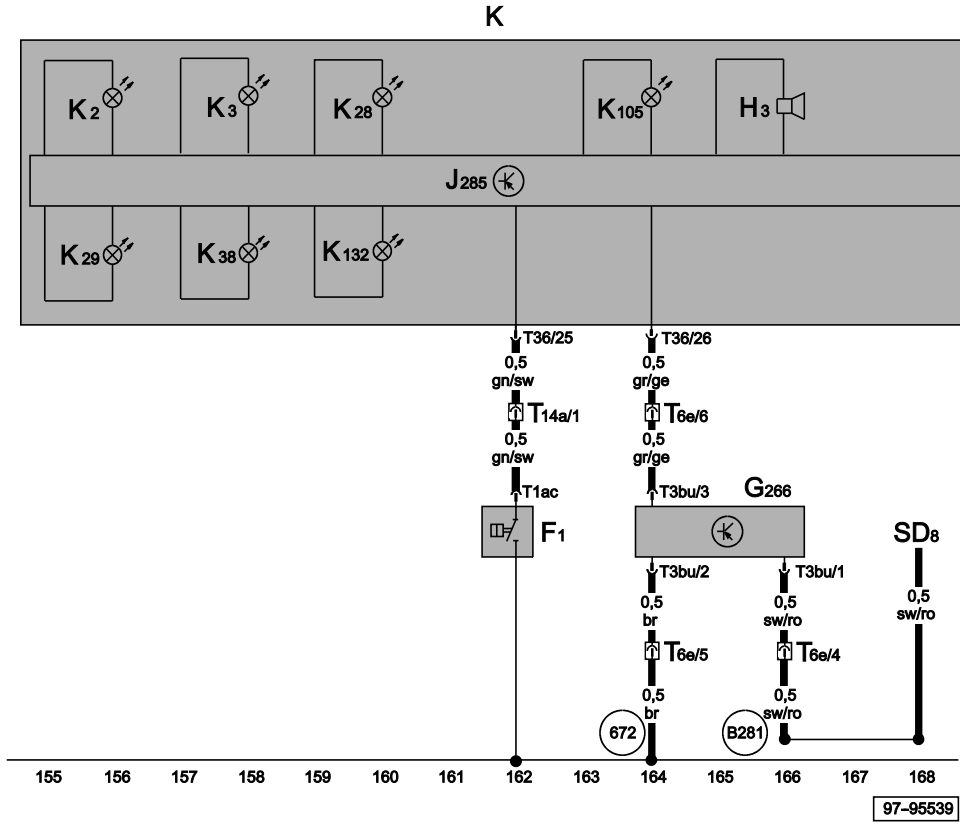


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Dash panel insert, warning lamps, oil pressure switch, buzzer or gong, oil level and oil temperature sender, electric power control fault lamp

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness

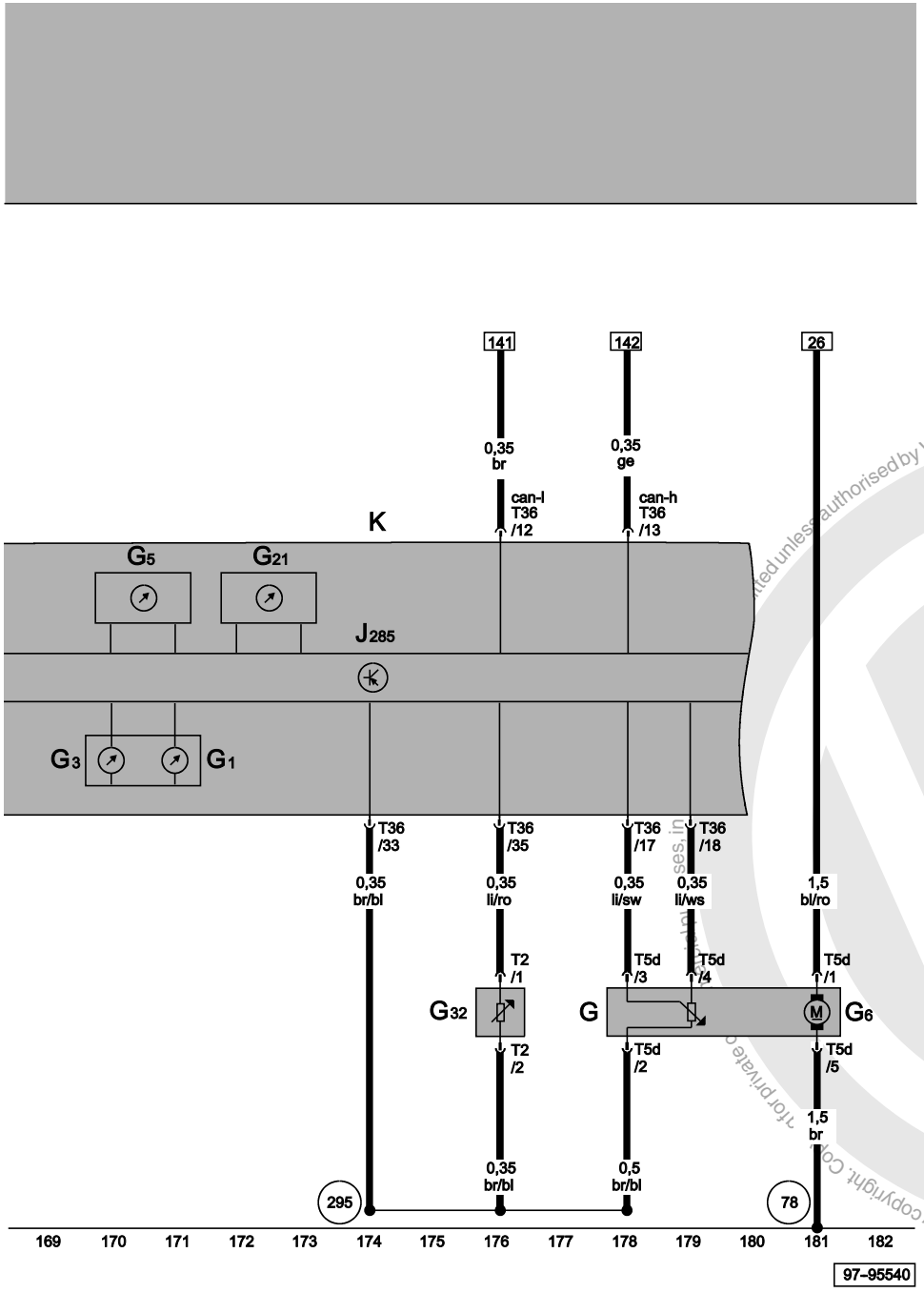


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Dash panel insert, rev. counter, speedometer, fuel gauge, fuel system pressurisation pump, coolant temperature gauge, coolant shortage indicator sender

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
K	Dash panel insert
T2	2-pin connector
T5d	5-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness



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All-wheel drive (4Motion)

From May 2005

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

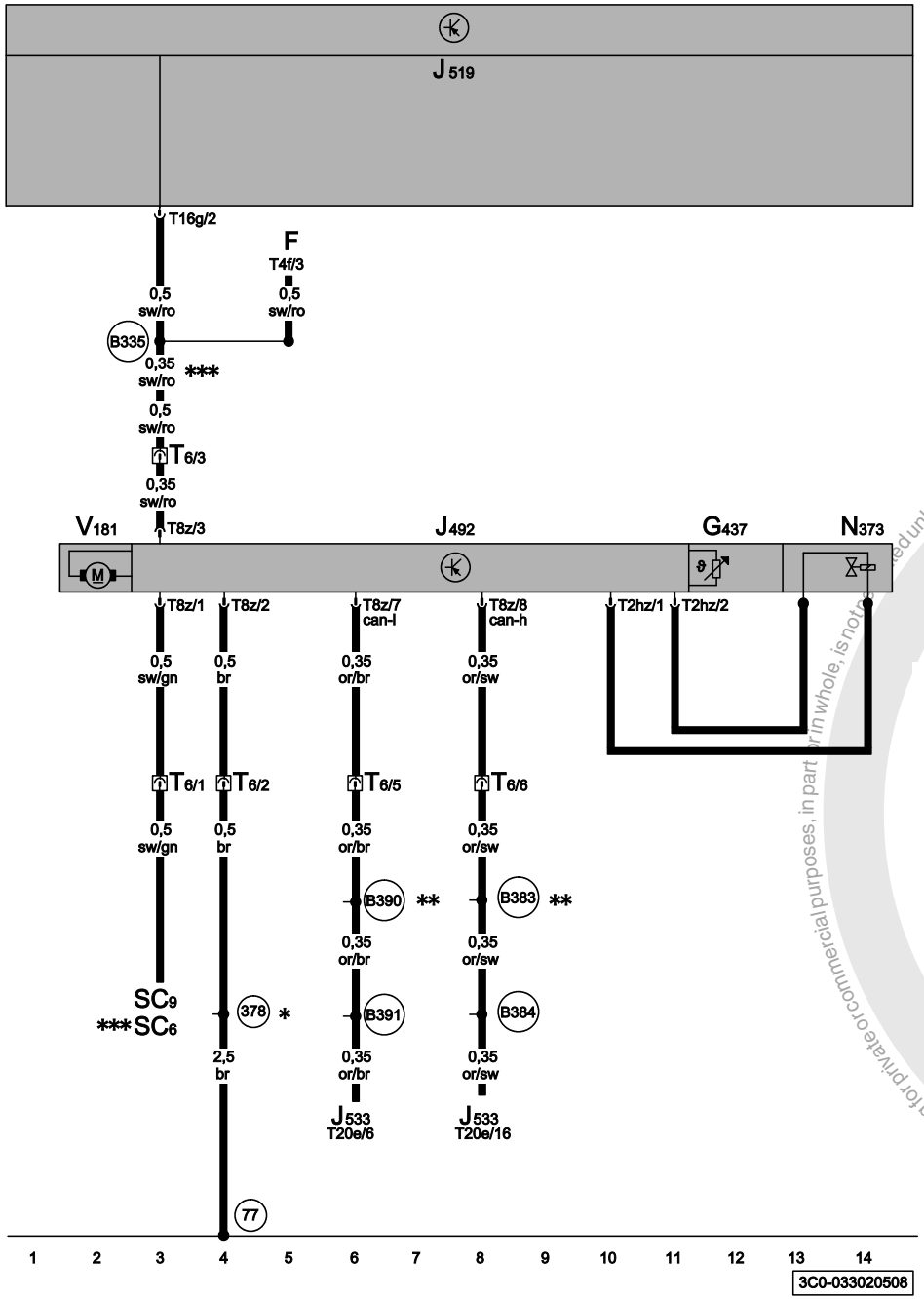
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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All-wheel drive control unit, oil pressure and oil temperature sender, coupling opening control valve, Haldex coupling pump

F	Brake light switch
G437	Oil pressure and oil temperature sender
J492	All-wheel drive control unit, on rear final drive
J519	Onboard supply control unit
J533	Data bus diagnostic interface
N373	Coupling opening control valve
SC6	Fuse 6 on fuse holder C
SC9	Fuse 9 on fuse holder C
T2hz	2-pin connector
T4f	4-pin connector
T6	6-pin connector, black, coupling point for Haldex coupling
T8z	8-pin connector
T16g	16-pin connector
T20e	20-pin connector
V181	Haldex coupling pump
77	Earth point, lower part of left B-pillar
B335	Connection 1 (54), in main wiring harness
378	Earth connection 13, in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Applicable from May 2006
**	Applicable from November 2006
***	Applicable from May 2008

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Automatic distance regulation with cruise control system, cruise control system (CCS)

From November 2004

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

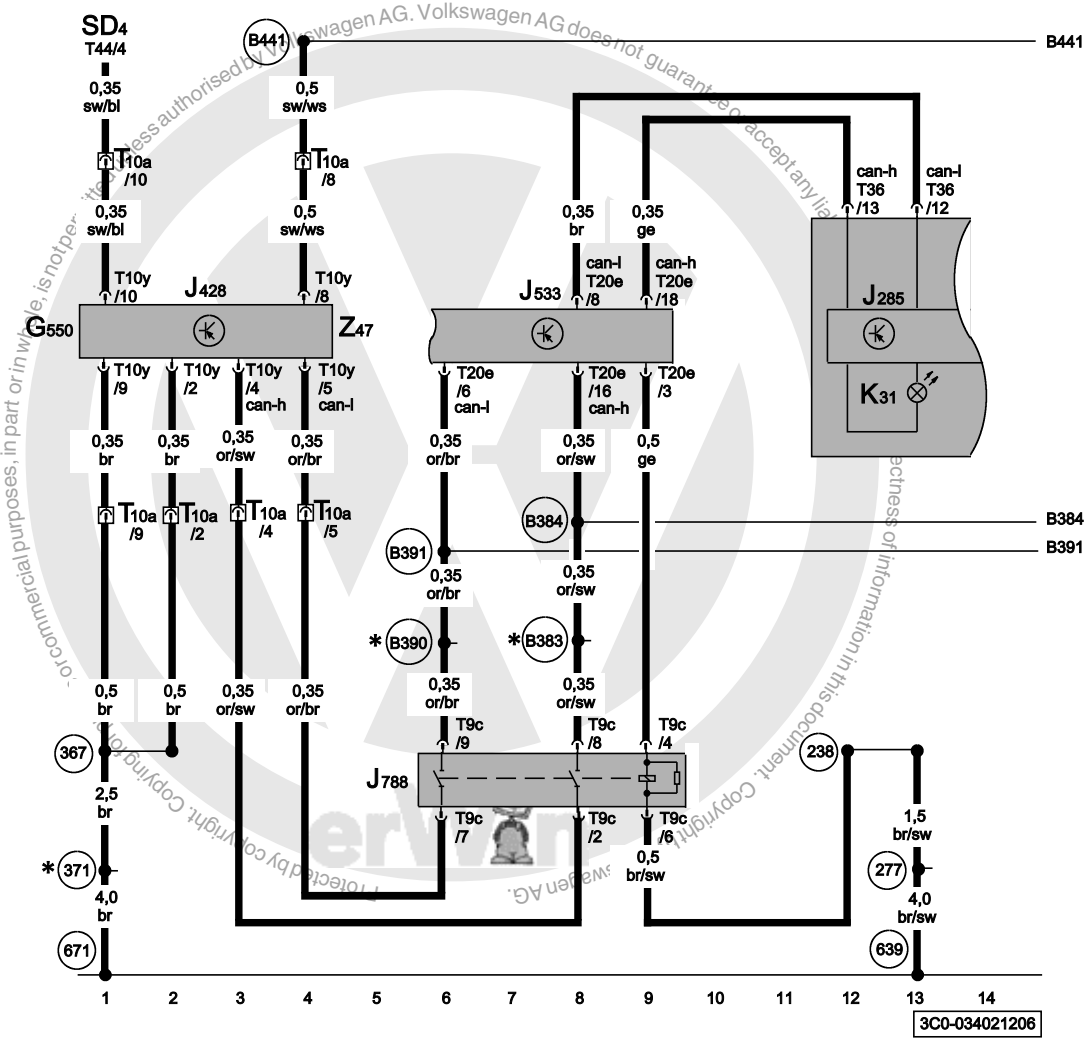
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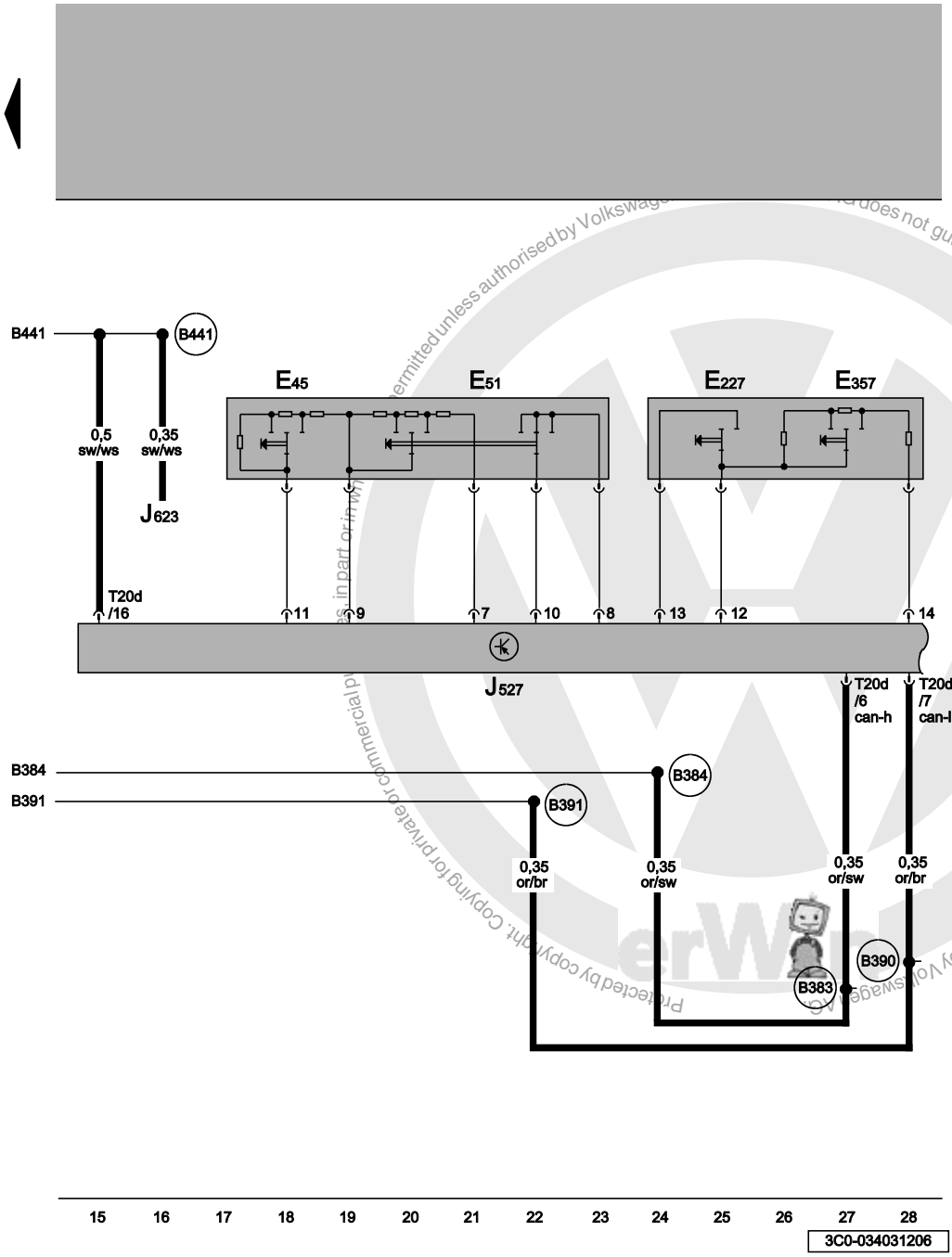


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Adaptive cruise control unit, isolation relay for powertrain CAN bus, sensor for adaptive cruise control

G550	Sensor for adaptive cruise control
J285	Control unit in dash panel insert
J428	Adaptive cruise control unit
J533	Data bus diagnosis interface
J788	Powertrain CAN bus isolation relay
K31	Cruise control system warning lamp
SD4	Fuse 4 on fuse holder D
T9c	9-pin connector
T10a	10-pin connector, coupling point on left of bumper front
T10y	10-pin connector
T20e	20-pin connector
T36	36-pin connector
Z47	Sensor heater for adaptive cruise control system
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
639	Earth point, left A-pillar
671	Earth point 1, on front of left longitudinal member
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Applicable from November 2006

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Steering column electronics control unit, adaptive cruise control button, cruise control system switch

E45	Cruise control system switch
E51	Cruise control system master switch
E227	Cruise control system (CCS) SET button
E357	Adaptive cruise control button
J527	Steering column electronics control unit
J623	Engine control unit
T20d	20-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness

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Multifunction steering wheel

⇒ **3-spoke steering wheel**

From April 2005

Notes:

For information concerning

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- Multi-pin connectors
- Control units and relays
- Earth connections

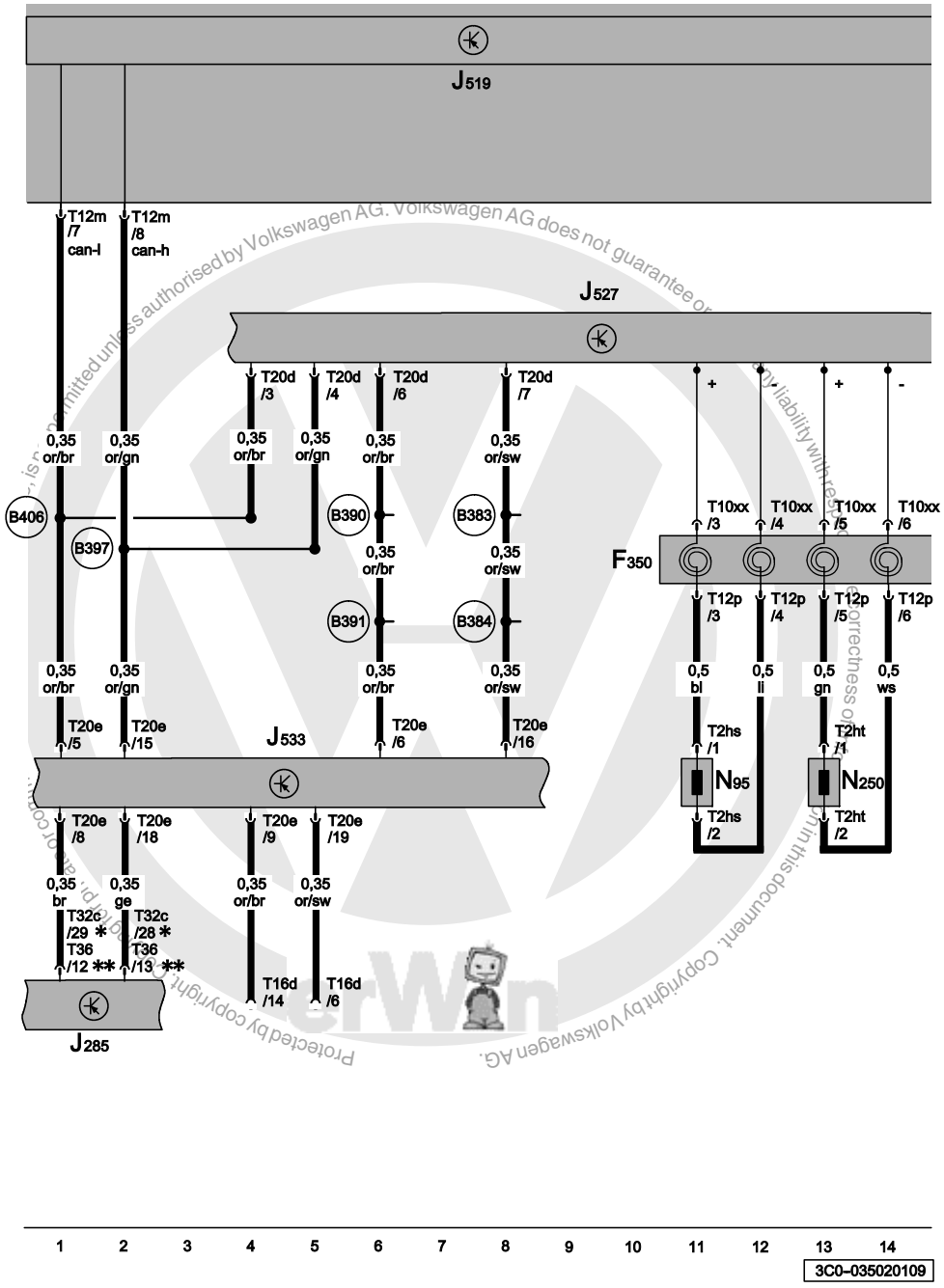
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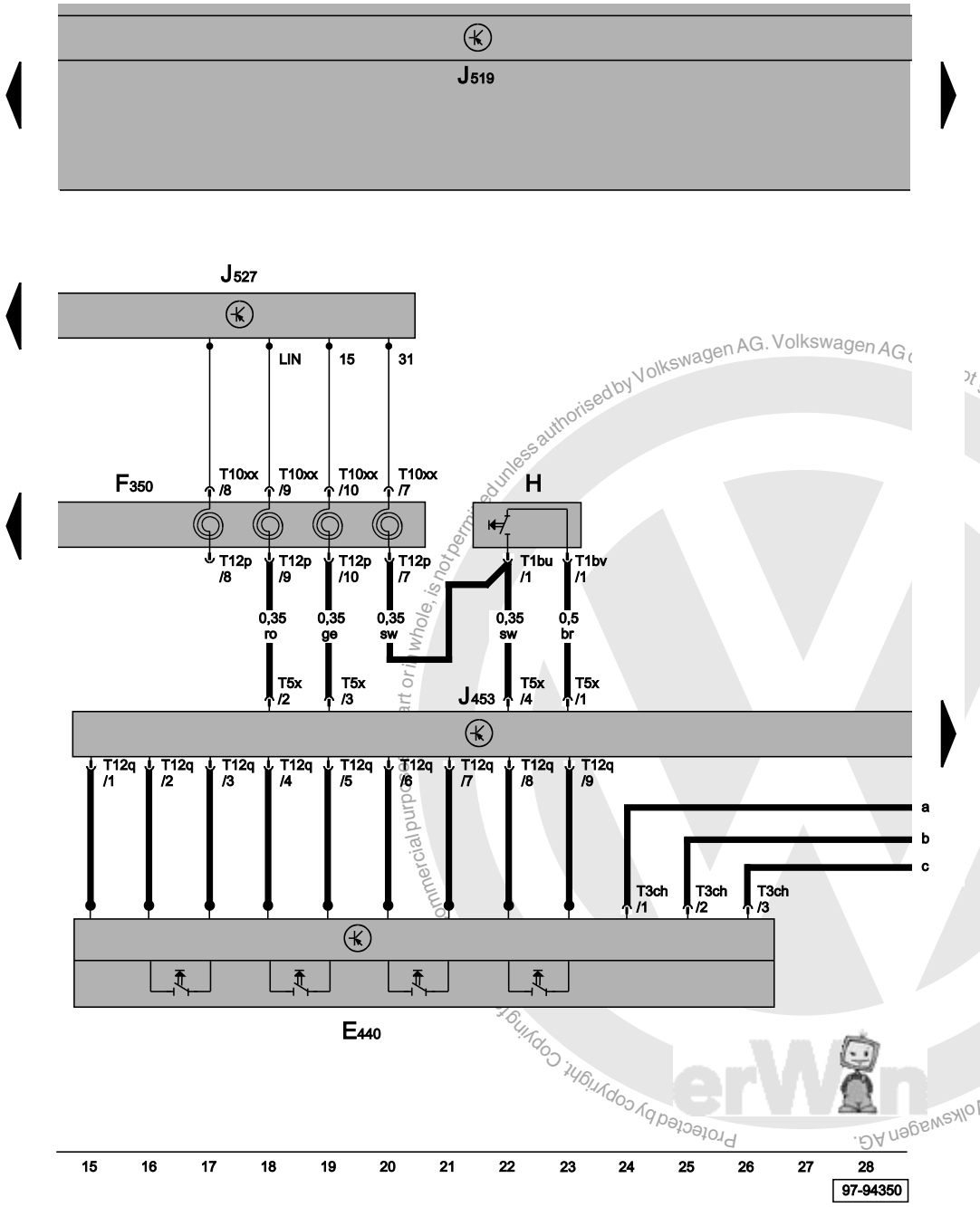


Steering column electronics control unit, coil connector, driver side airbag igniter, data bus diagnostic interface

F350	Coil connector
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
N95	Driver side airbag igniter
N250	Driver airbag igniter 2
T2hs	2-pin connector
T2ht	2-pin connector
T10xx	10-pin connector
T12m	12-pin connector, black
T12p	12-pin connector
T16d	16-pin connector, self-diagnosis connection
T20d	20-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008

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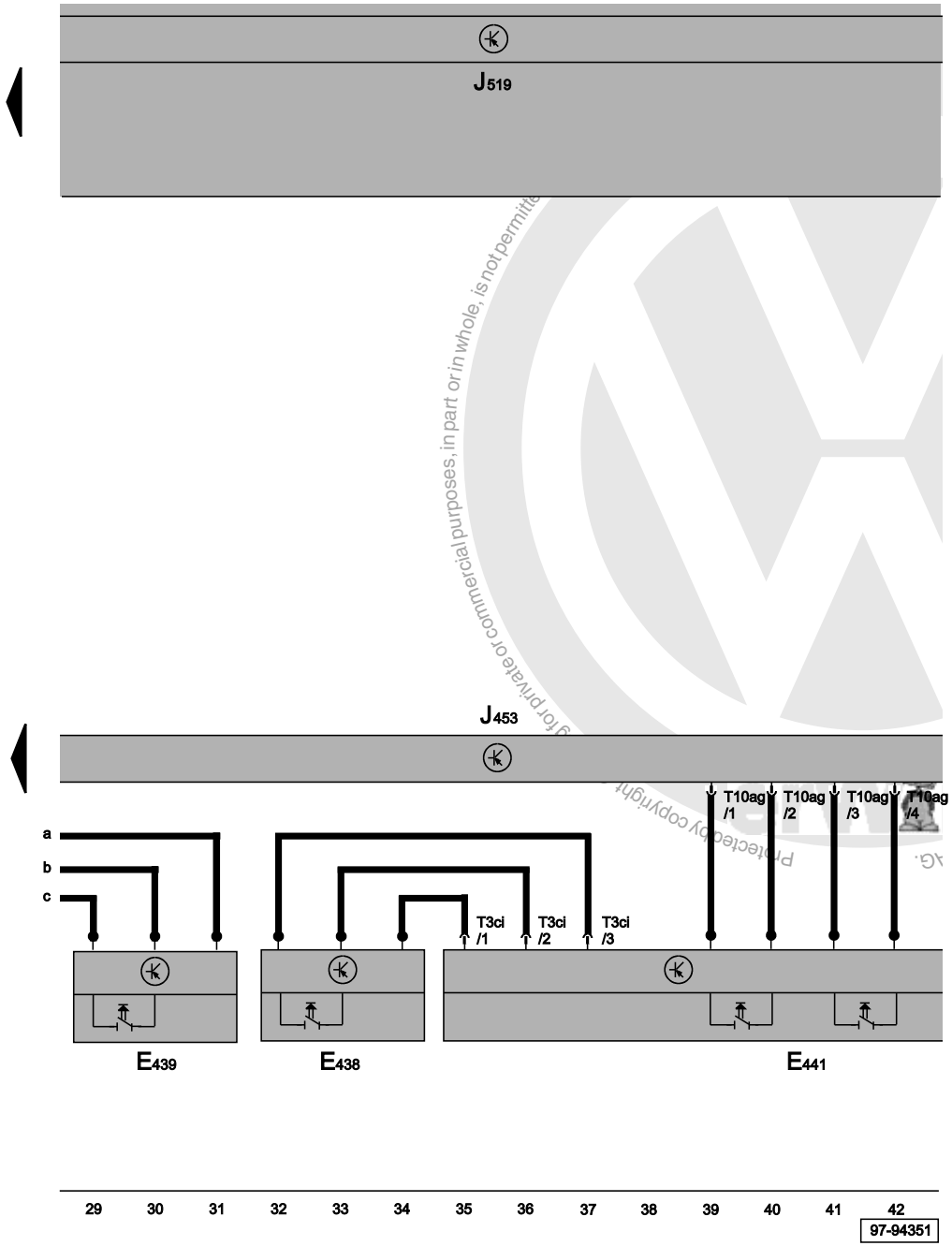


Multifunction buttons on left in steering wheel, horn plate, multifunction steering wheel control unit, coil connector, heated steering wheel

E440	Multifunction buttons on left in steering wheel
F350	Coil connector
H	Horn plate
J453	Multifunction steering wheel control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
T1bu	Single connector
T1bv	Single connector
T2hu	2-pin connector
T3ch	3-pin connector
T5x	5-pin connector
T10xx	10-pin connector
T12p	12-pin connector
T12q	12-pin connector

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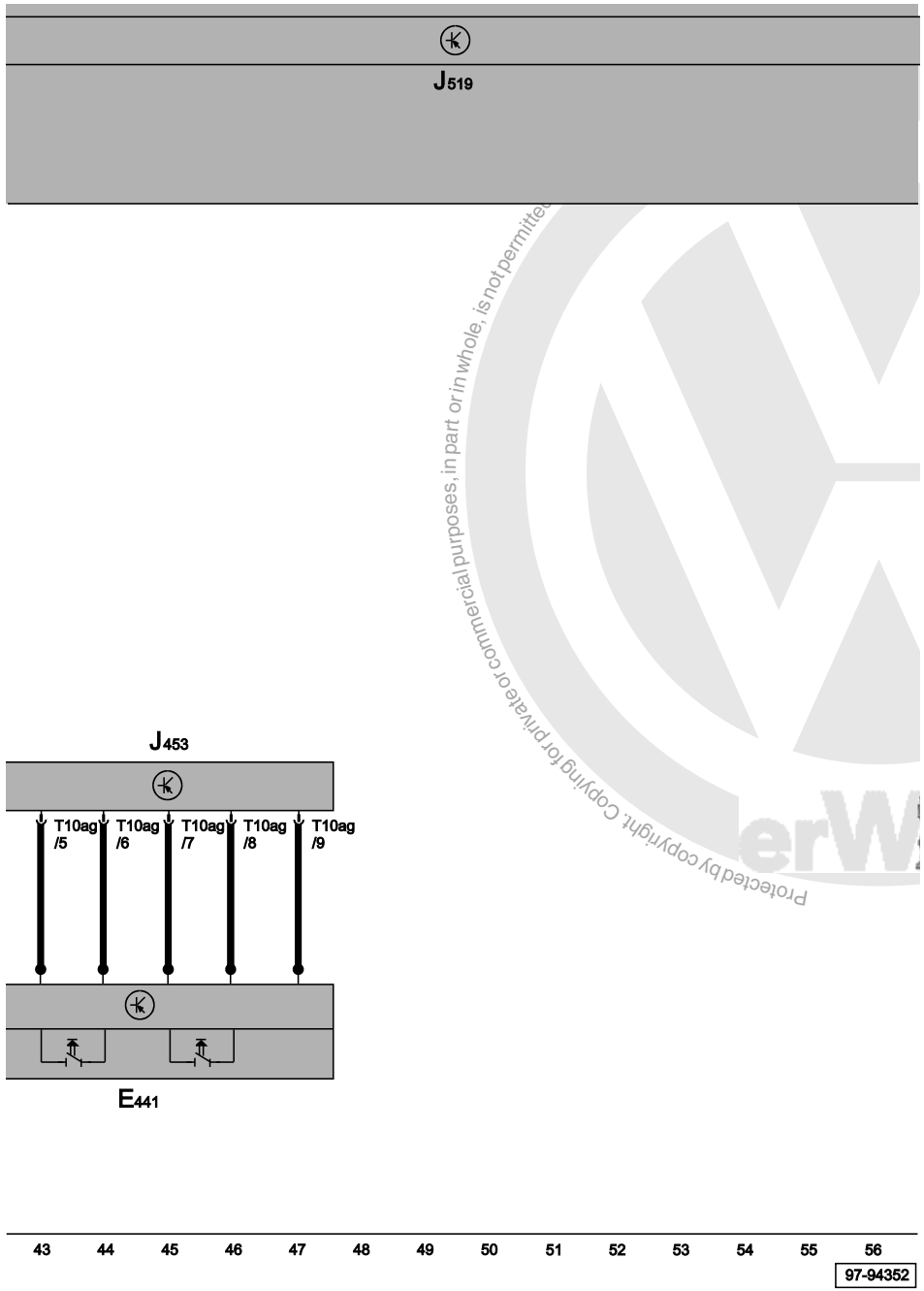


Multifunction buttons on right in steering wheel, Tiptronic switch in steering wheel, multifunction steering wheel control unit

E438	Tiptronic switch in steering wheel to shift up
E439	Tiptronic switch in steering wheel to shift down
E441	Multifunction buttons on right in steering wheel
J453	Multifunction steering wheel control unit
J519	Onboard supply control unit
T3ci	3-pin connector
T10ag	10-pin connector

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or	=	orange
rs	=	pink

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Multifunction buttons on right in steering wheel, multifunction steering wheel control unit

E441	Multifunction buttons on right in steering wheel
J453	Multifunction steering wheel control unit
J519	Onboard supply control unit
T10ag	10-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Gas discharge headlights (bi-xenon) (8Q4/8Q6)

⇒ **Cornering light, dynamic**
⇒ **Cornering light, static**
⇒ **Headlight range, dynamic**

From November 2004

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

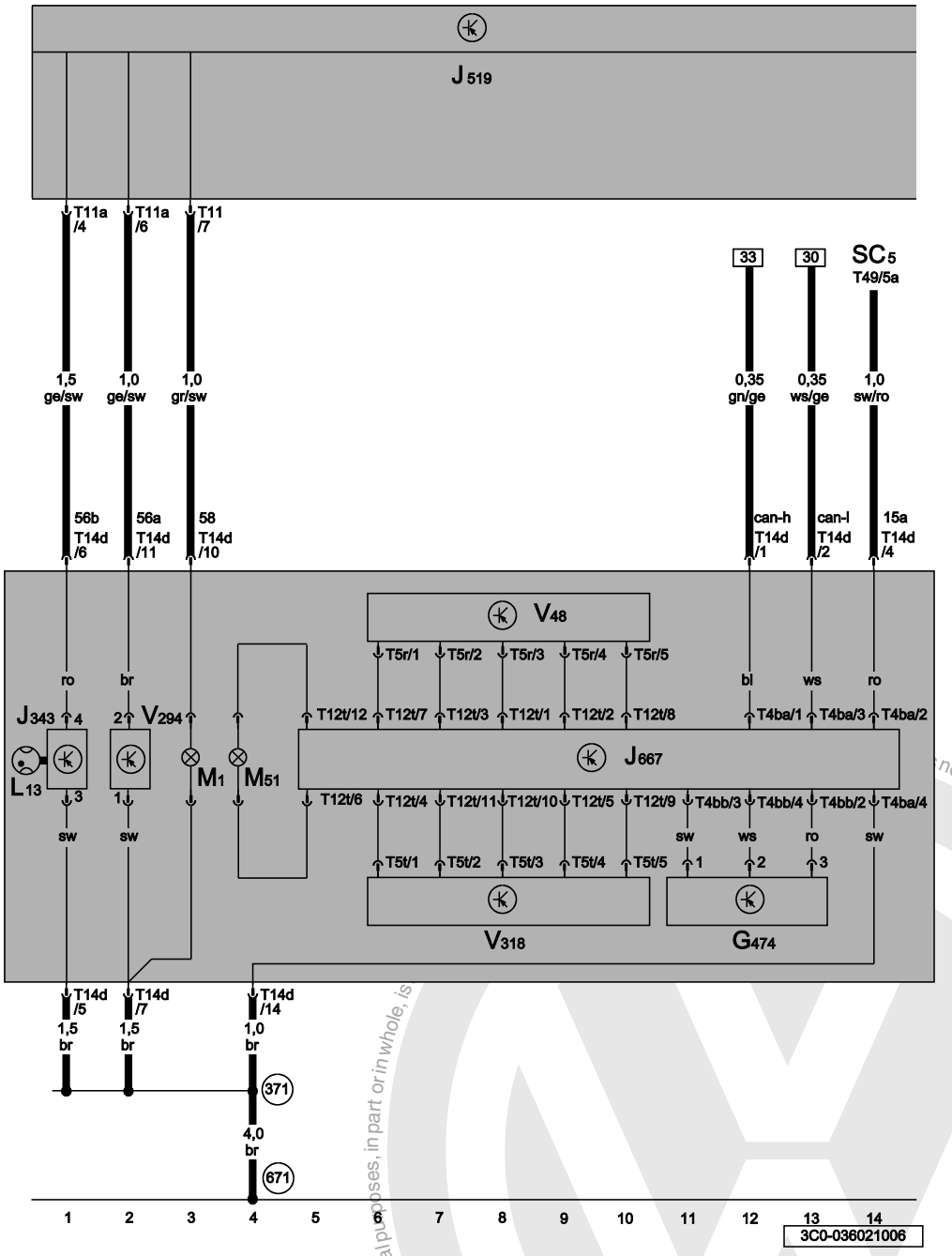
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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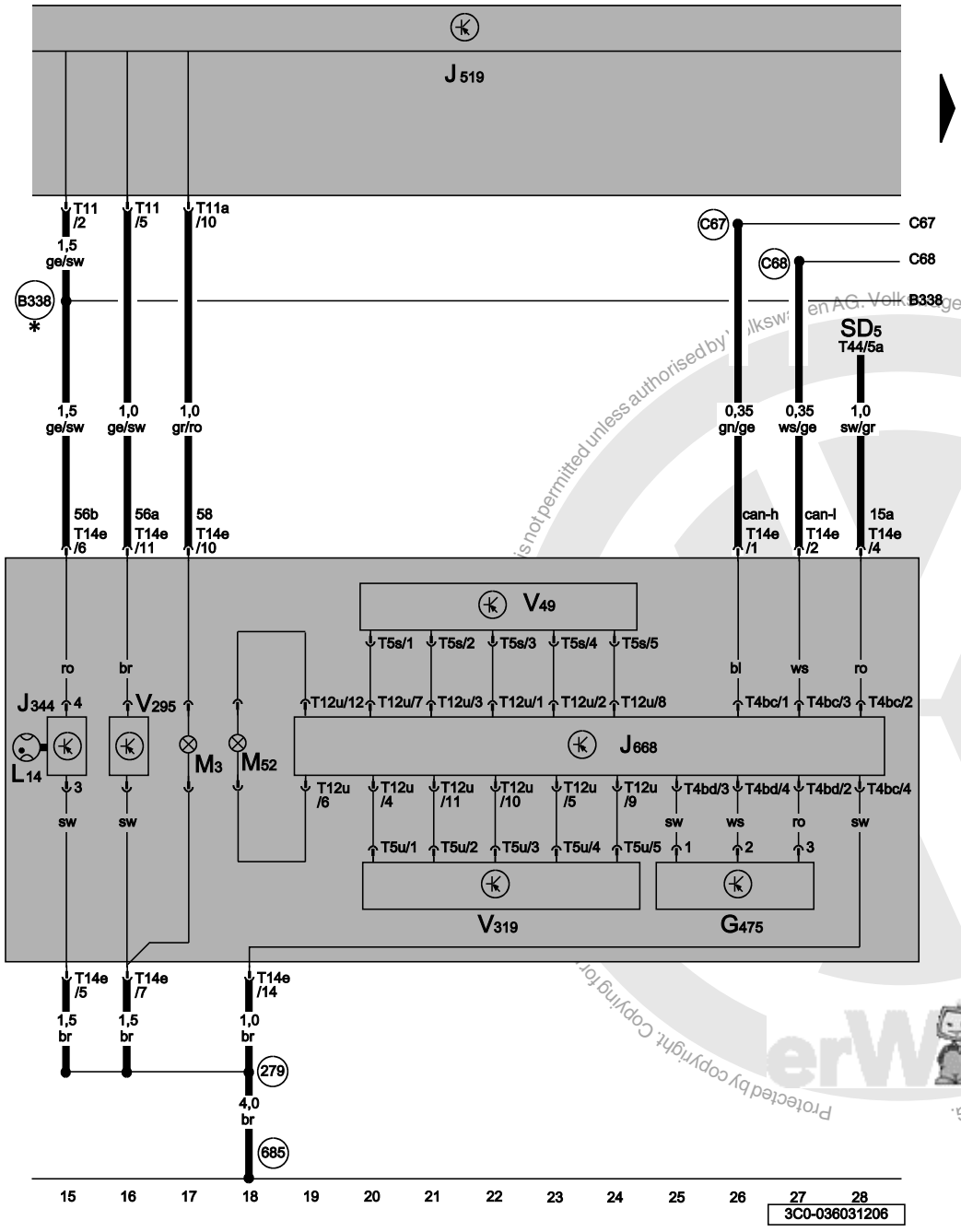
Left headlight, power output module for left headlight, left gas discharge bulb, left dynamic cornering light control motor

G474	Left swivel module position sensor
J343	Left gas discharge bulb control unit
J519	Onboard supply control unit
J667	Power output module for left headlight
L13	Left gas discharge (xenon) bulb
M1	Left side light bulb
M51	Left static cornering light
SC5	Fuse 5 on fuse holder C
T4ba	4-pin connector, in headlight
T4bb	4-pin connector, in headlight
T5r	5-pin connector, in headlight
T5t	5-pin connector, in headlight
T11	11-pin connector, black
T11a	11-pin connector, brown
T12t	12-pin connector, in headlight
T14d	14-pin connector
T49	49-pin connector on left dash panel
V48	Left headlight range control motor
V294	Left dip beam screen motor
V318	Left dynamic cornering light control motor
(371)	Earth connection 6, in main wiring harness
(671)	Earth point 1, on front of left longitudinal member

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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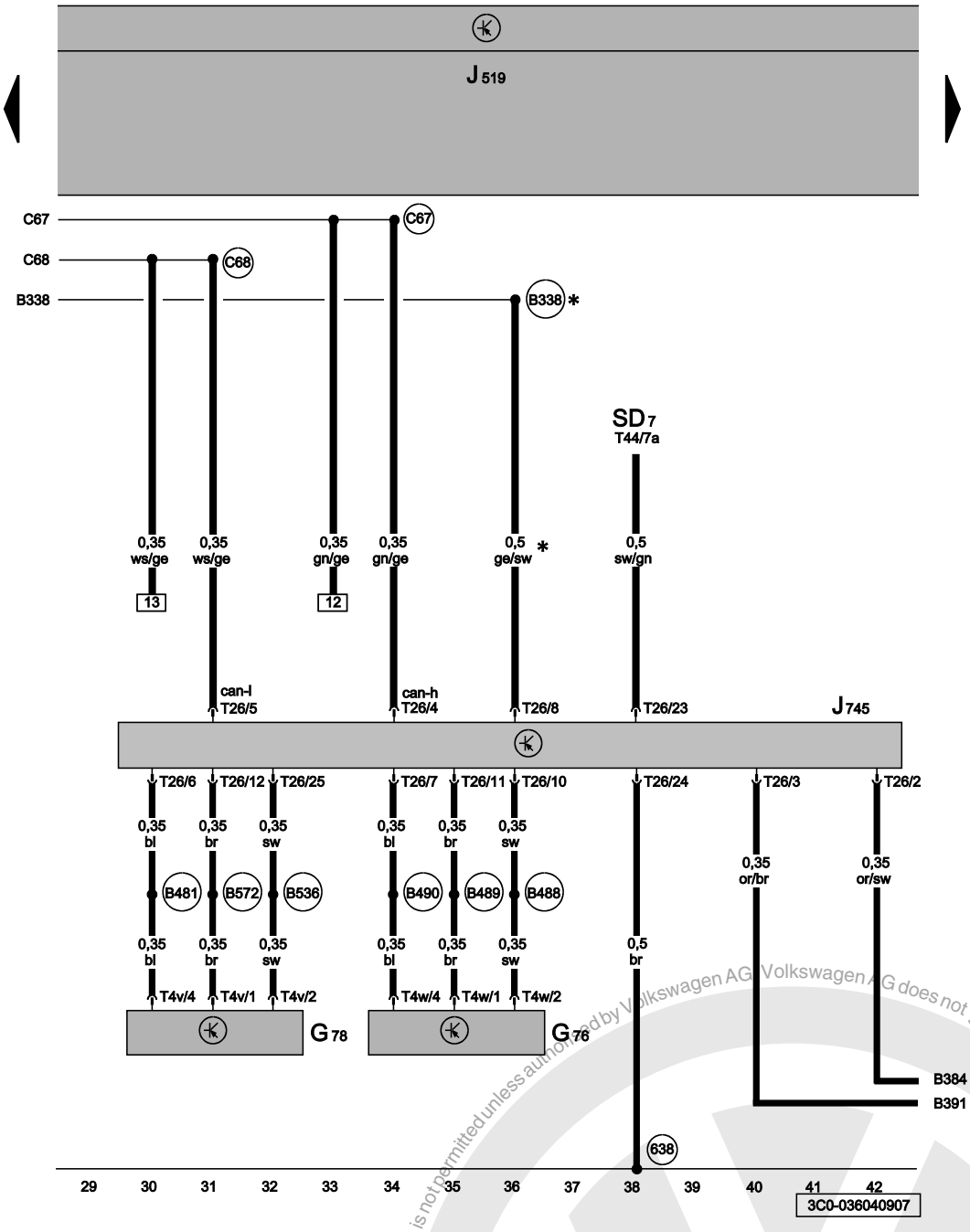
Right headlight, right dynamic cornering light control motor, right gas discharge bulb, right dynamic cornering light control motor



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

G475	Right swivel module position sensor
J344	Right gas discharge bulb control unit
J519	Onboard supply control unit
J668	Power output module for right headlight
L14	Right gas discharge (xenon) bulb
M3	Right side light bulb
M52	Right static cornering light
SD5	Fuse 5 on fuse holder D
T4bc	4-pin connector, in headlight
T4bd	4-pin connector, in headlight
T5s	5-pin connector, in headlight
T5u	5-pin connector, in headlight
T11	11-pin connector, black
T11a	11-pin connector, brown
T12u	12-pin connector, in headlight
T14e	14-pin connector
T44	44-pin connector on right of dash panel
V49	Right headlight range control motor
V295	Right dip beam screen motor
V319	Right dynamic cornering light control motor
279	Earth connection 5, in interior wiring harness
685	Earth point 1 at front of right longitudinal member
B338	Connection 1 (56), in main wiring harness
C67	Connection (CAN bus, high), in headlight wiring harness
C68	Connection (CAN bus, low), in headlight wiring harness
*	Discontinued from November 2006

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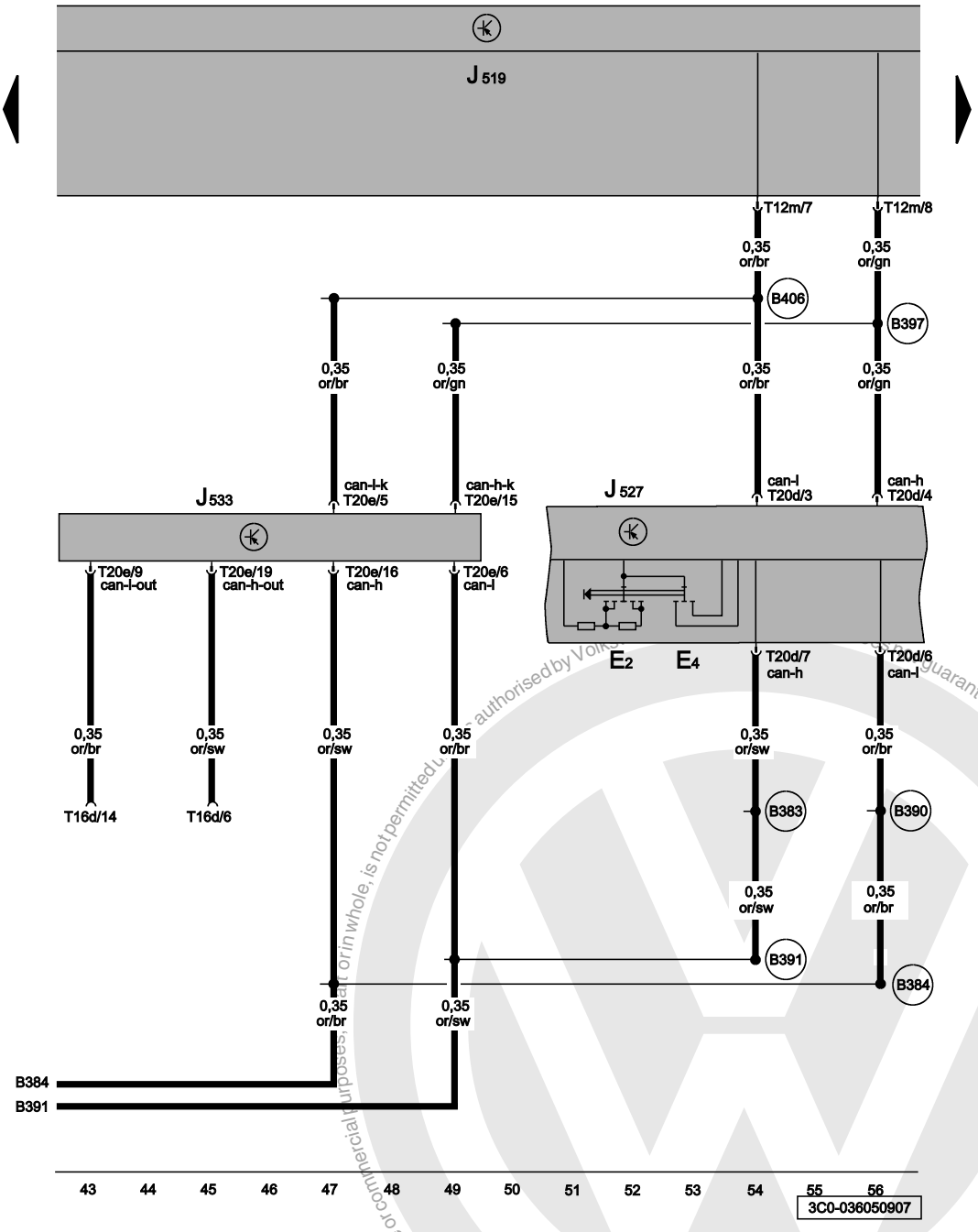


Front and rear left vehicle level sender

G76	Rear left vehicle level sender
G78	Front left vehicle level sender
J519	Onboard supply control unit
J745	Control unit for cornering light and headlight range control, behind glove compartment
SD7	Fuse 7 on fuse holder D
T26	26-pin connector
T4v	4-pin connector
T4w	4-pin connector
T44	44-pin connector on right of dash panel
638	Earth point, on right A-pillar
B338	Connection 1 (56), in main wiring harness
B481	Connection 17 in main wiring harness
B488	Connection 24 in main wiring harness
B489	Connection 25 in main wiring harness
B490	Connection 26 in main wiring harness
B536	Connection 27 in main wiring harness
B572	Connection 39 in main wiring harness
C67	Connection (CAN bus, high), in headlight wiring harness
C68	Connection (CAN bus, low), in headlight wiring harness
*	Discontinued from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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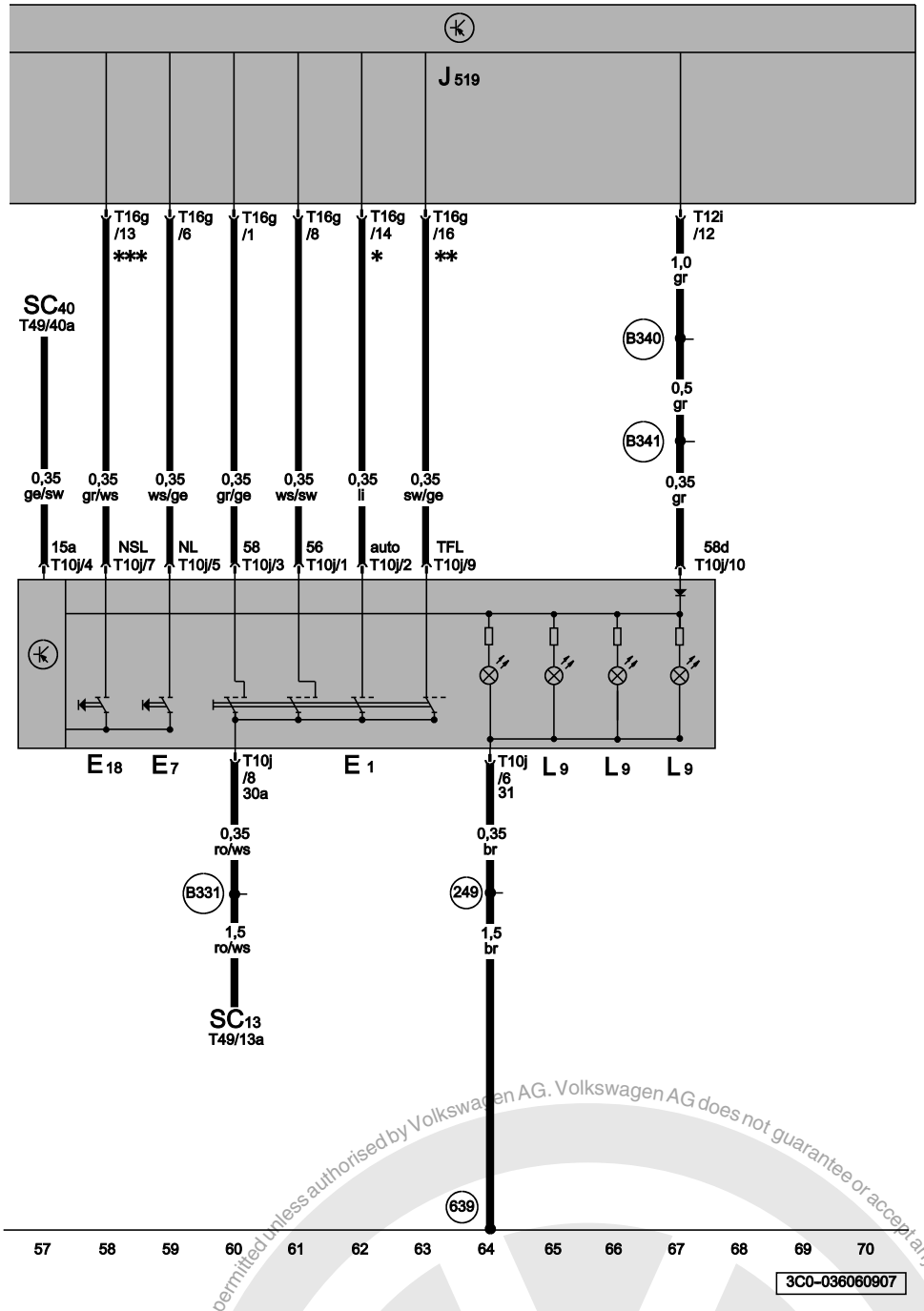
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Headlight dipper and flasher switch, steering column electronics control unit, data bus diagnostic interface

E2	Turn signal switch
E4	Headlight dipper and flasher switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
T12m	12-pin connector, black
T16d	16-pin connector, self-diagnosis connection
T20d	20-pin connector
T20e	20-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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Light switch, fog light switch, light switch illumination bulb, hazard warning lights button



E1	Light switch
E7	Fog light switch
E18	Rear fog light switch
J519	Onboard supply control unit
L9	Light switch illumination bulb
SC13	Fuse 13 on fuse holder C
SC40	Fuse 40 on fuse holder C
T10j	10-pin connector, black
T12i	12-pin connector, black
T16g	16-pin connector, black
T49	49-pin connector on left dash panel
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B331	Connection 17 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only on vehicles with assistant driving lights
**	Only on vehicles with day driving lights
***	For American markets depending on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Rear lid, servo close, Variant model (4E7)

⇒ **Power latching system**

From May 2005

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

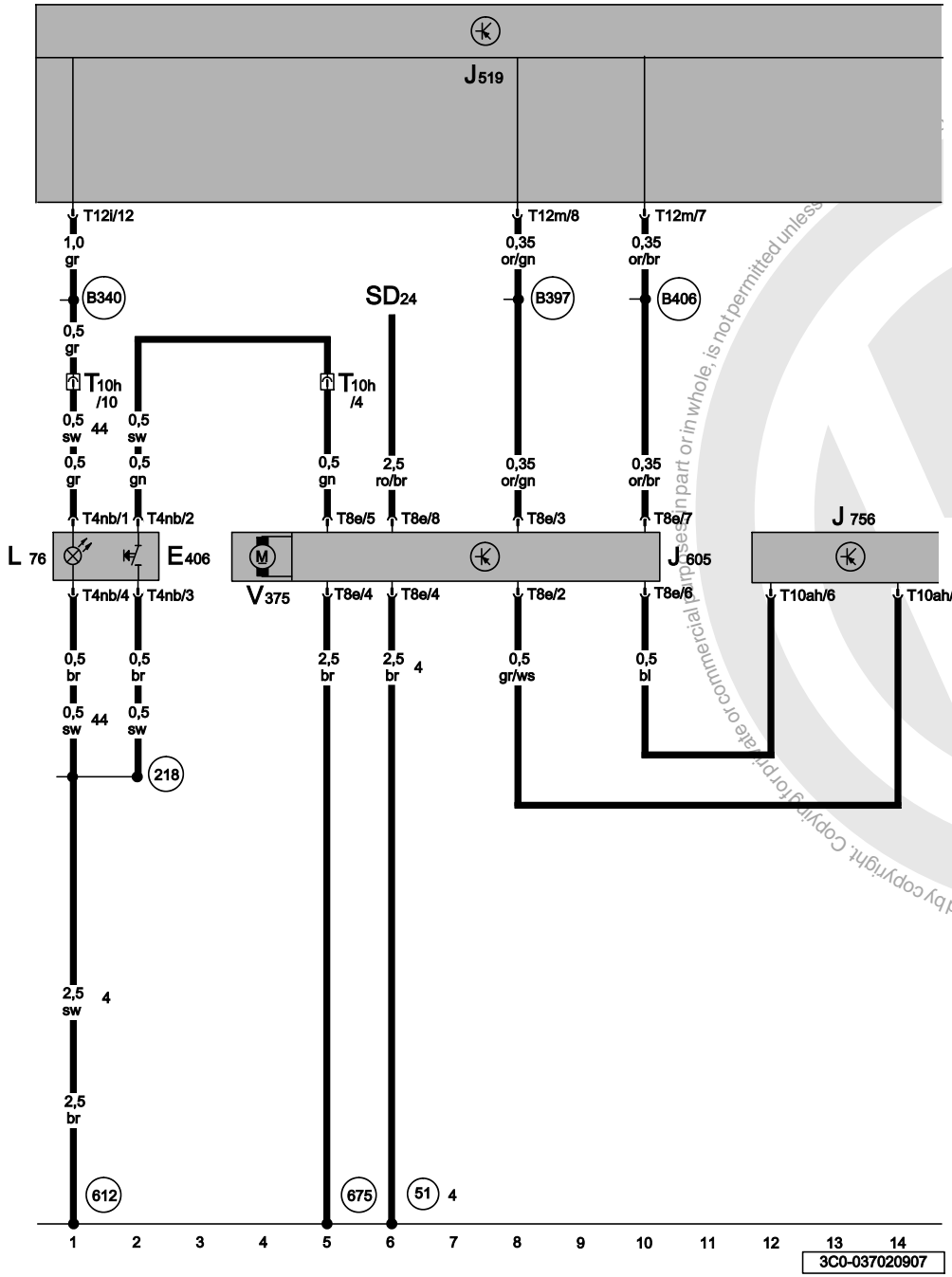
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Onboard supply control unit, button to close rear lid in luggage compartment, rear lid control unit, rear lid control unit 2

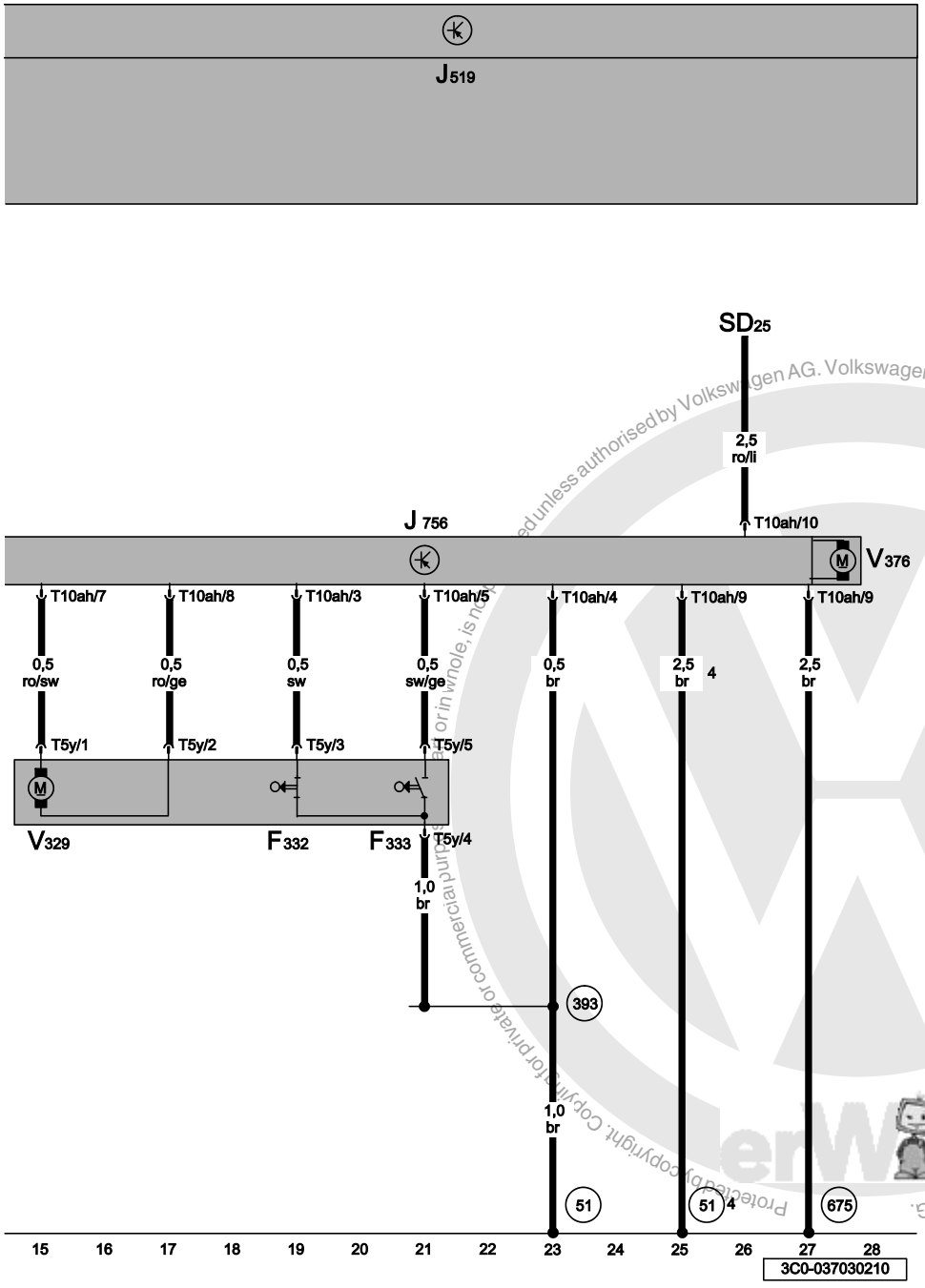
E406	Button to close rear lid in luggage compartment
J519	Onboard supply control unit
J605	Rear lid control unit
J756	Rear lid control unit 2
L76	Button illumination bulb
SD24	Fuse 24 on fuse holder
T4nb	4-pin connector
T8e	8-pin connector
T10h	10-pin connector, coupling point, rear lid right
T10ah	10-pin connector
T12m	12-pin connector, black
T12i	12-pin connector
V375	Motor in rear lid control unit
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
612	Earth point, centre on rear lid
675	Earth point 2, on right in luggage compartment
B340	Connection 1 (58d), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Valid from May 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Rear lid control unit 2, motor in rear lid control unit 2, power latching motor, power latching system limit switch

F332	Power latching system limit switch, luggage compartment unlocked
F333	Power latching system limit switch, luggage compartment locked
J519	Onboard supply control unit
J756	Rear lid control unit 2
SD25	Fuse 25 on fuse holder
T5y	5-pin connector
T10ah	10-pin connector
V329	Power latching motor
V376	Motor in rear lid control unit 2
51	Earth point, on right in luggage compartment
393	Earth connection 28, in main wiring harness
675	Earth point 2, on right in luggage compartment
*	Valid from May 2006



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

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Heated washer jets

From November 2004

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

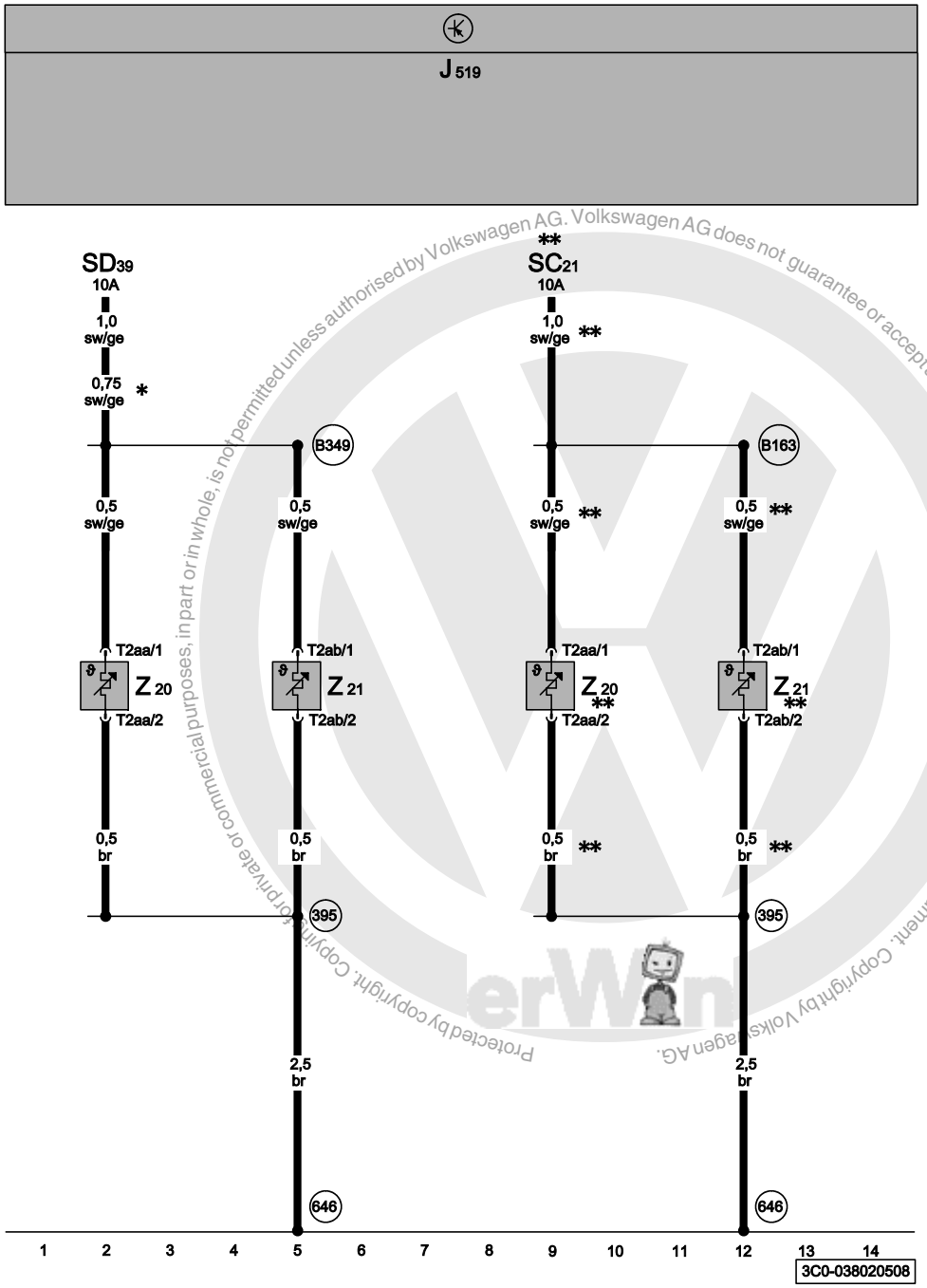
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Washer jets heater element, fuses

J519	Onboard supply control unit
SC21	Fuse 21 on fuse holder C
SD39	Fuse 39 on fuse holder D
T2aa	2-pin connector
T2ab	2-pin connector
Z20	Left washer jet heater element
Z21	Right washer jet heater element
395	Earth connection 30, in main wiring harness
646	Earth point 2, on bulkhead
B163	Positive connection 1 (15), in interior wiring harness
B349	Connection 2 (75A), in main wiring harness
*	Applicable from November 2006
**	Applicable from May 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

1.6 l/85 kW Motronic, engine code BLF

from November 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

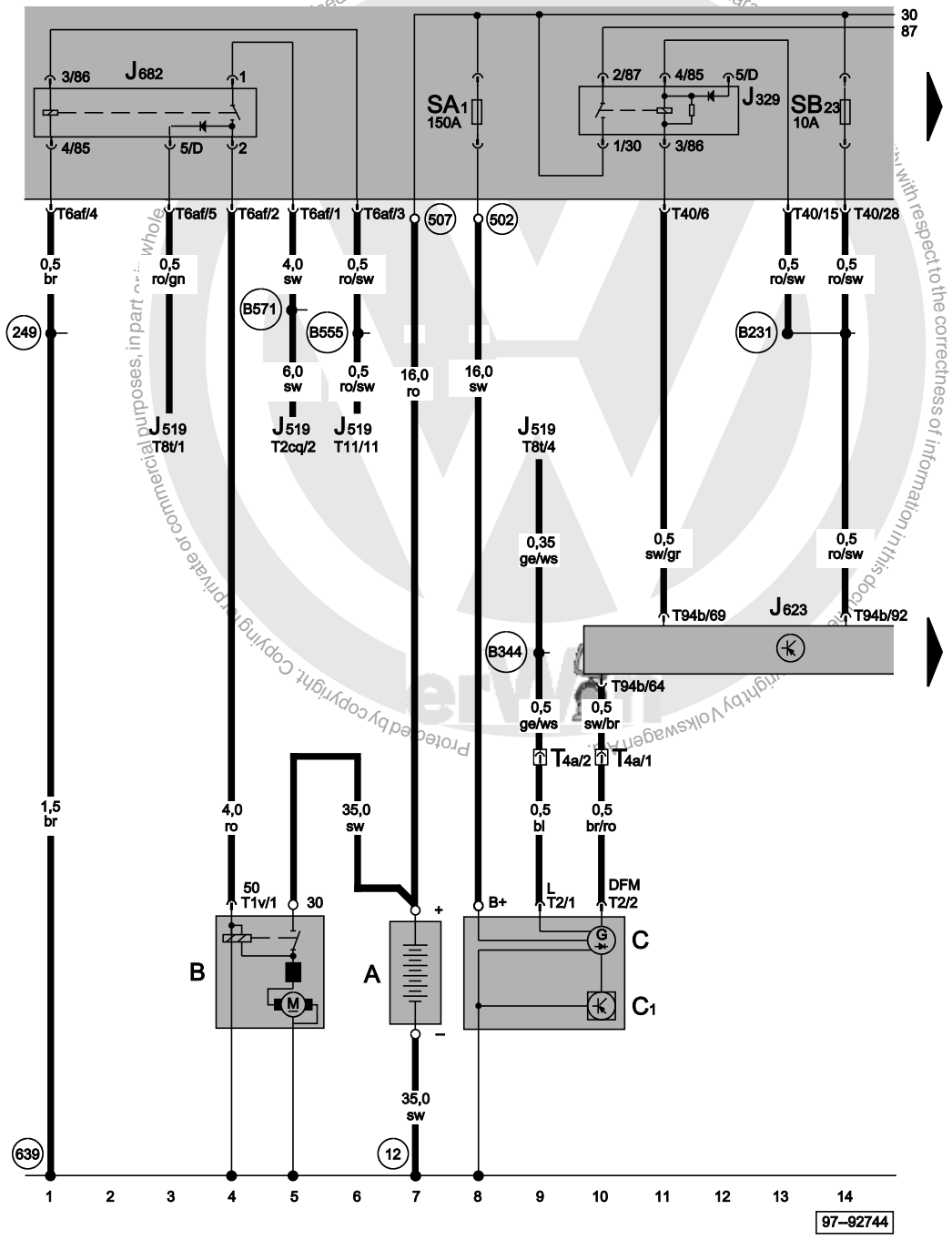
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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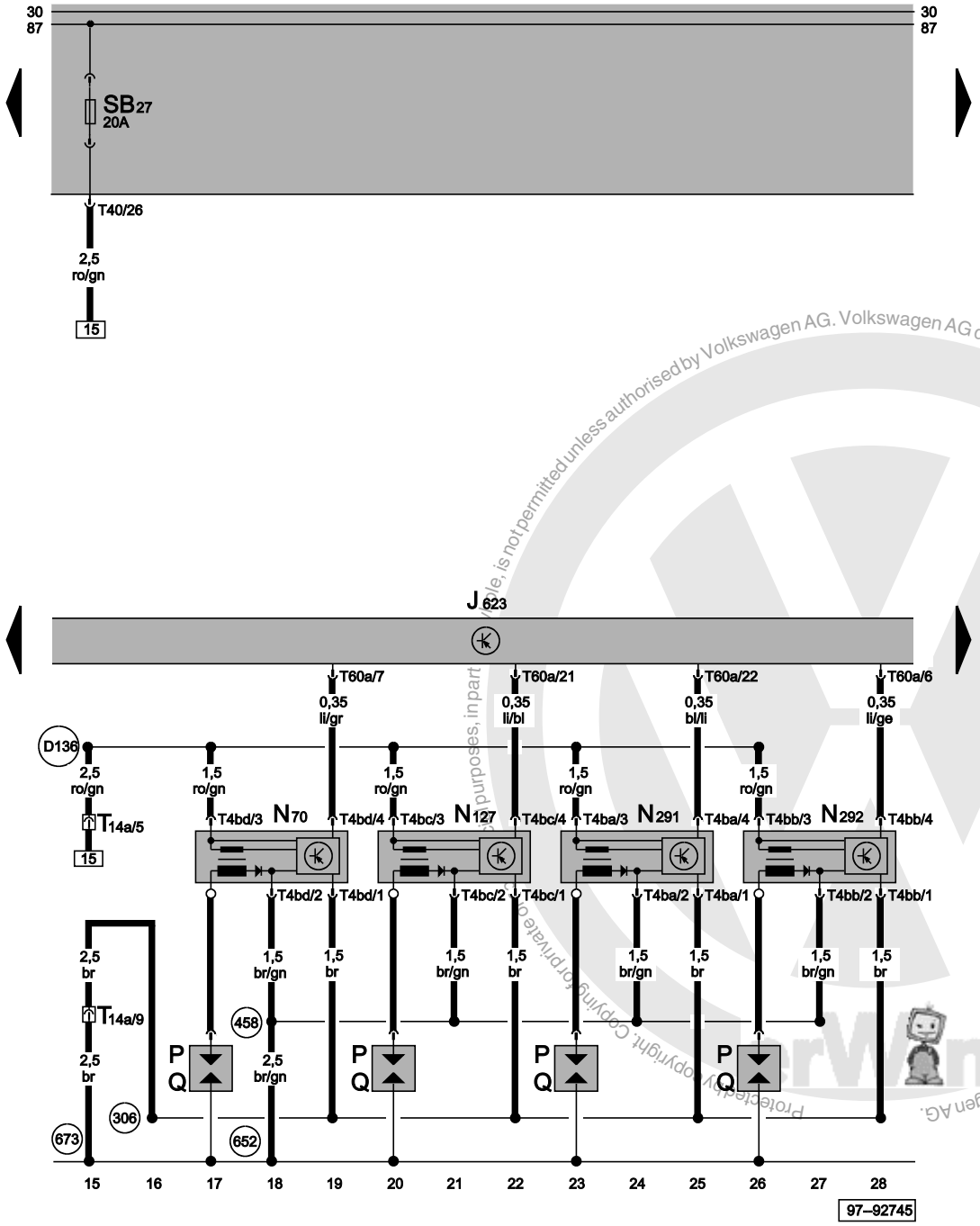


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
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Terminals 15 + 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
SA1	Fuse 1 on fuse holder A
SB23	Fuse 23 on fuse holder B
T1v	Single connector
T2	2-pin connector
T2cq	2-pin connector
T4a	4-pin connector, near starter
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
T40	40-pin connector, under electronics box, in engine compartment
T94b	94-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
502	Screw connection 1 (30a), on relay plate
507	Screw connection (30), on fuse holder on battery
639	Earth point, left A-pillar
B231	Positive connection 5 (30a), in interior wiring harness
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness

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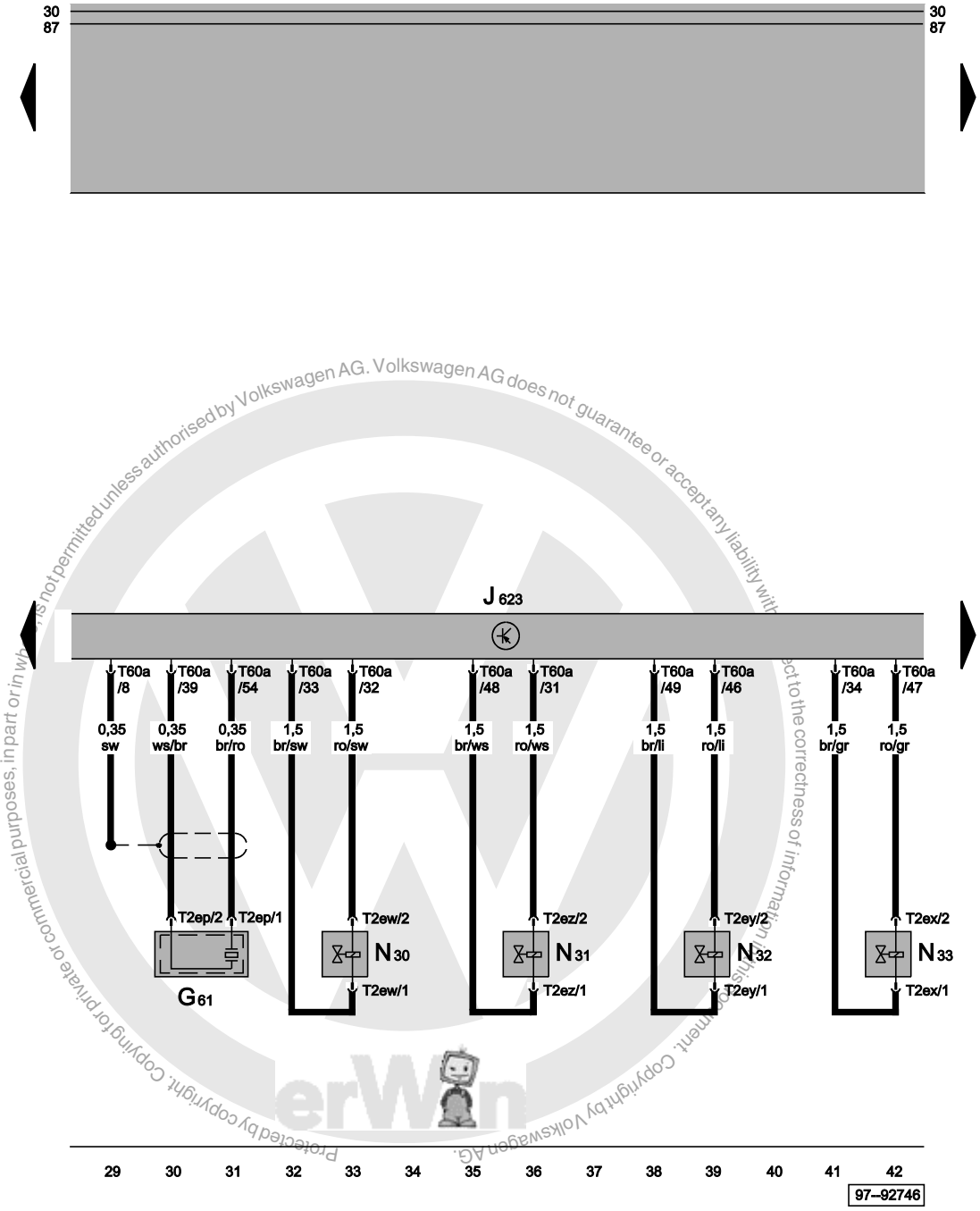


Engine control unit, ignition coils 1 to 4 with output stage, spark plugs, spark plug connector

J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
SB27	Fuse 27 on fuse holder
T4ba	4-pin connector
T4bb	4-pin connector
T4bc	4-pin connector
T4bd	4-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T60a	60-pin connector
306	Earth connection (ignition coils), in engine harness
458	Earth connection 3, in engine harness
652	Earth point for engine and gearbox earth
673	Earth point 3, on front of left longitudinal member
D136	Positive connection 2 (15a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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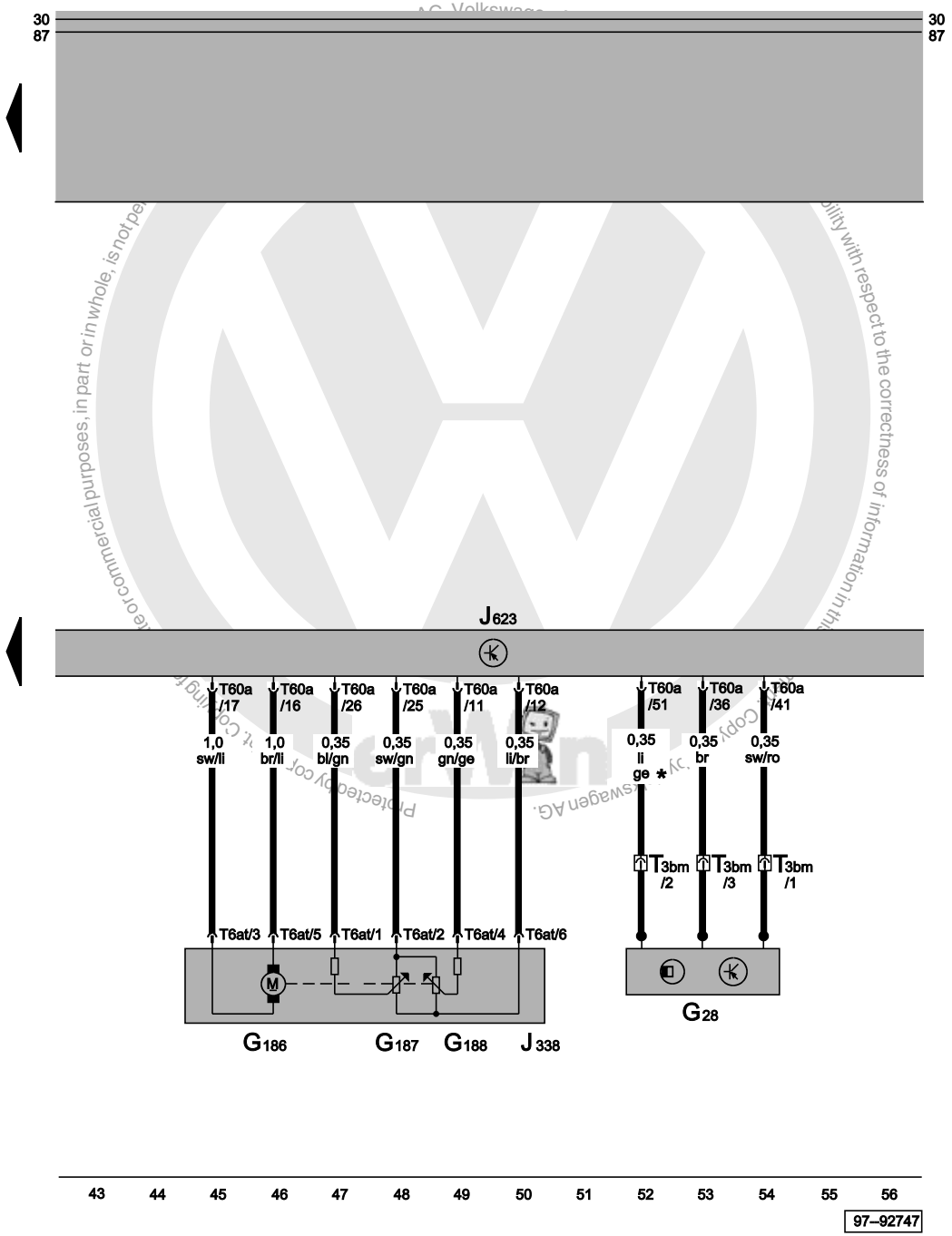


Engine control unit, knock sensor 1, injectors for cylinders 1 to 4

G61	Knock sensor 1
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T2ep	2-pin connector
T2ew	2-pin connector
T2ex	2-pin connector
T2ey	2-pin connector
T2ez	2-pin connector
T60a	60-pin connector

ws	=	white
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gn	=	green
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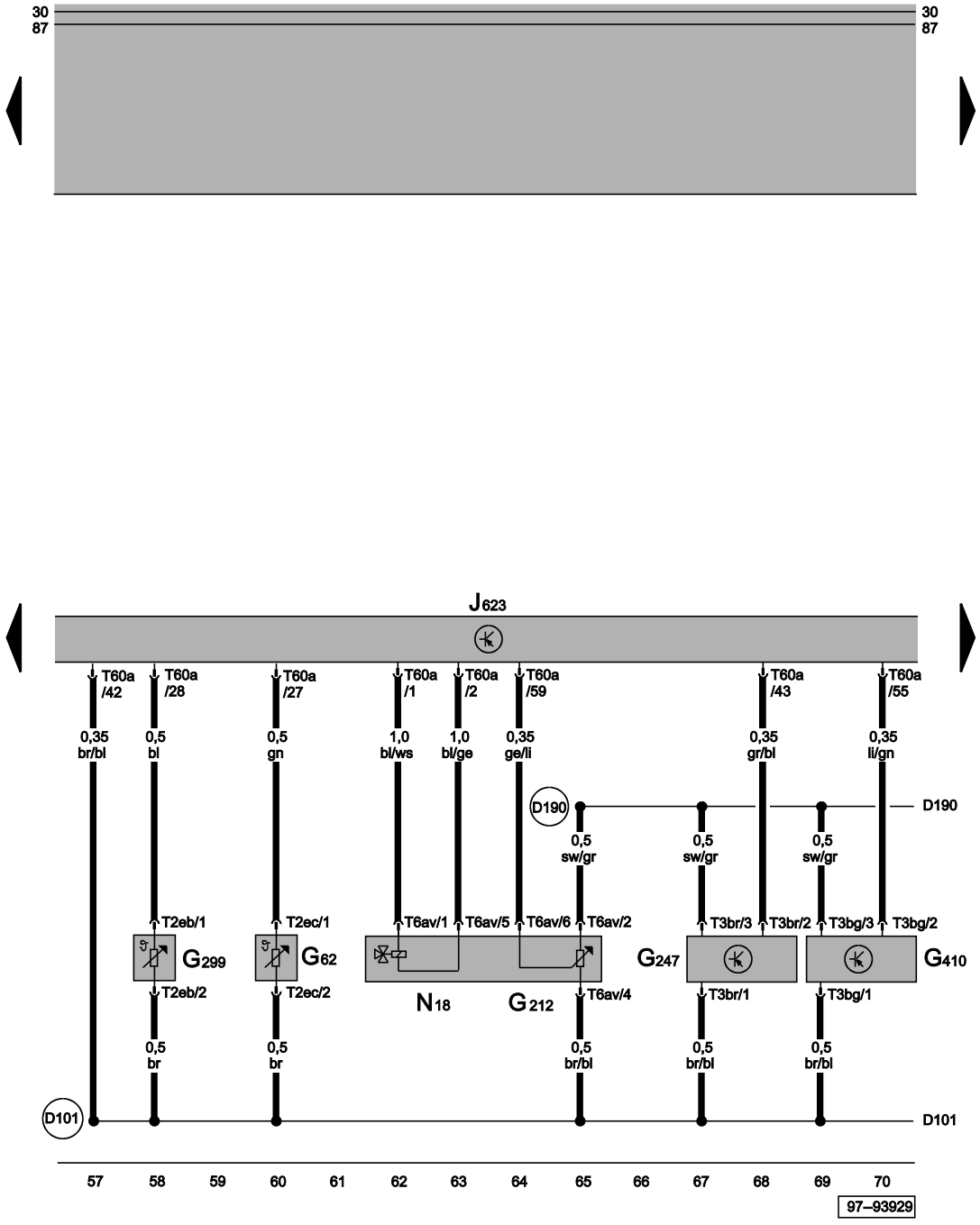
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Engine control unit, throttle valve module, engine speed sender

G28	Engine speed sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J623	Engine control unit
T3bm	3-pin connector
T6at	6-pin connector
T60a	60-pin connector
*	only models with manual gearbox

ws	=	white
sw	=	black
ro	=	red
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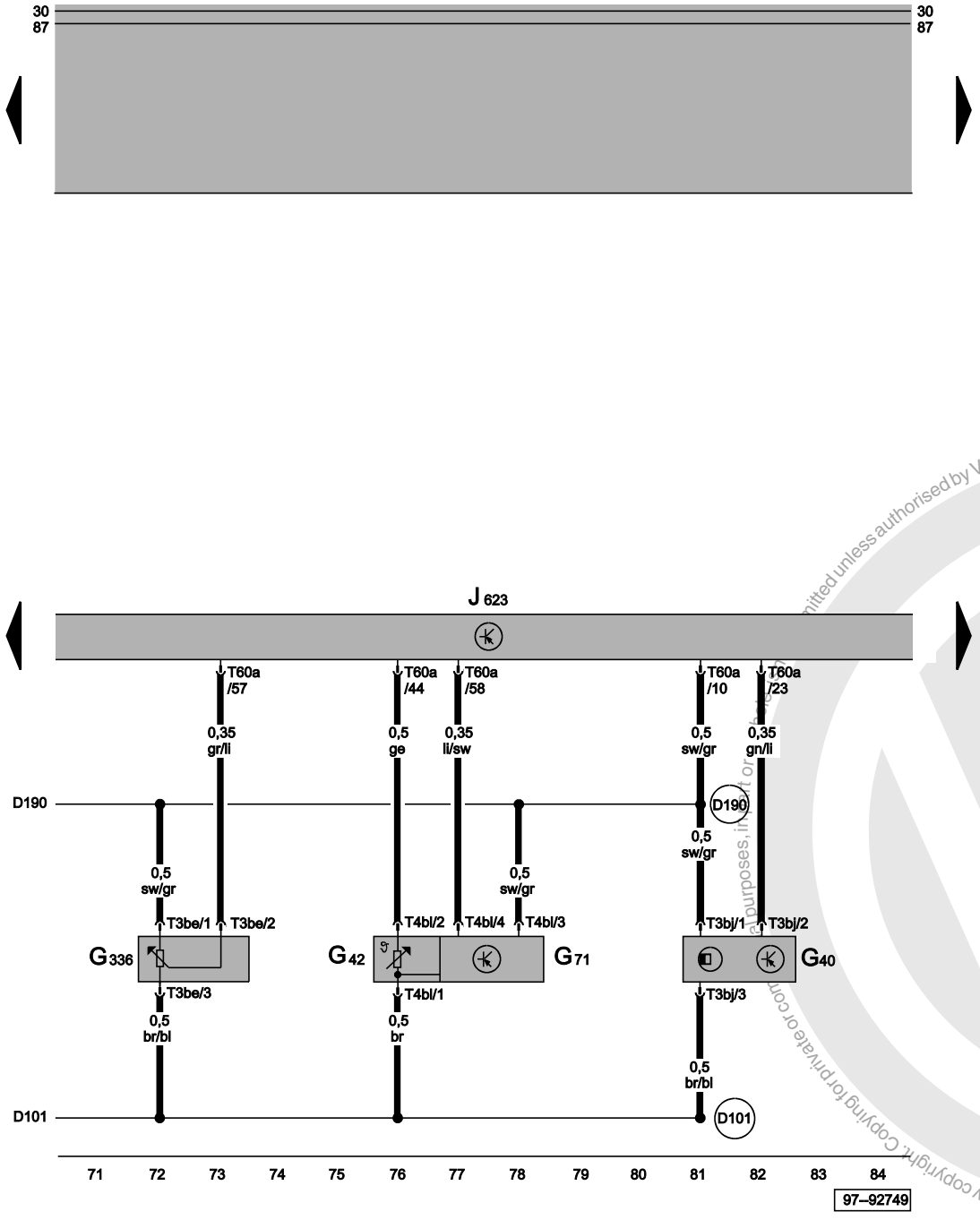


Engine control unit, exhaust gas recirculation potentiometer, fuel pressure sender, exhaust gas recirculation valve, fuel pressure sender for low pressure

G62	Coolant temperature sender
G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
G299	Intake air temperature sender 2
G410	Fuel pressure sender for low pressure
J623	Engine control unit
N18	Exhaust gas recirculation valve
T2eb	2-pin connector
T2ec	2-pin connector
T3bg	3-pin connector
T3br	3-pin connector
T6av	6-pin connector
T60a	60-pin connector
D101	Connection 1, in engine compartment wiring harness
D190	Earth connection 3 (5V), in engine wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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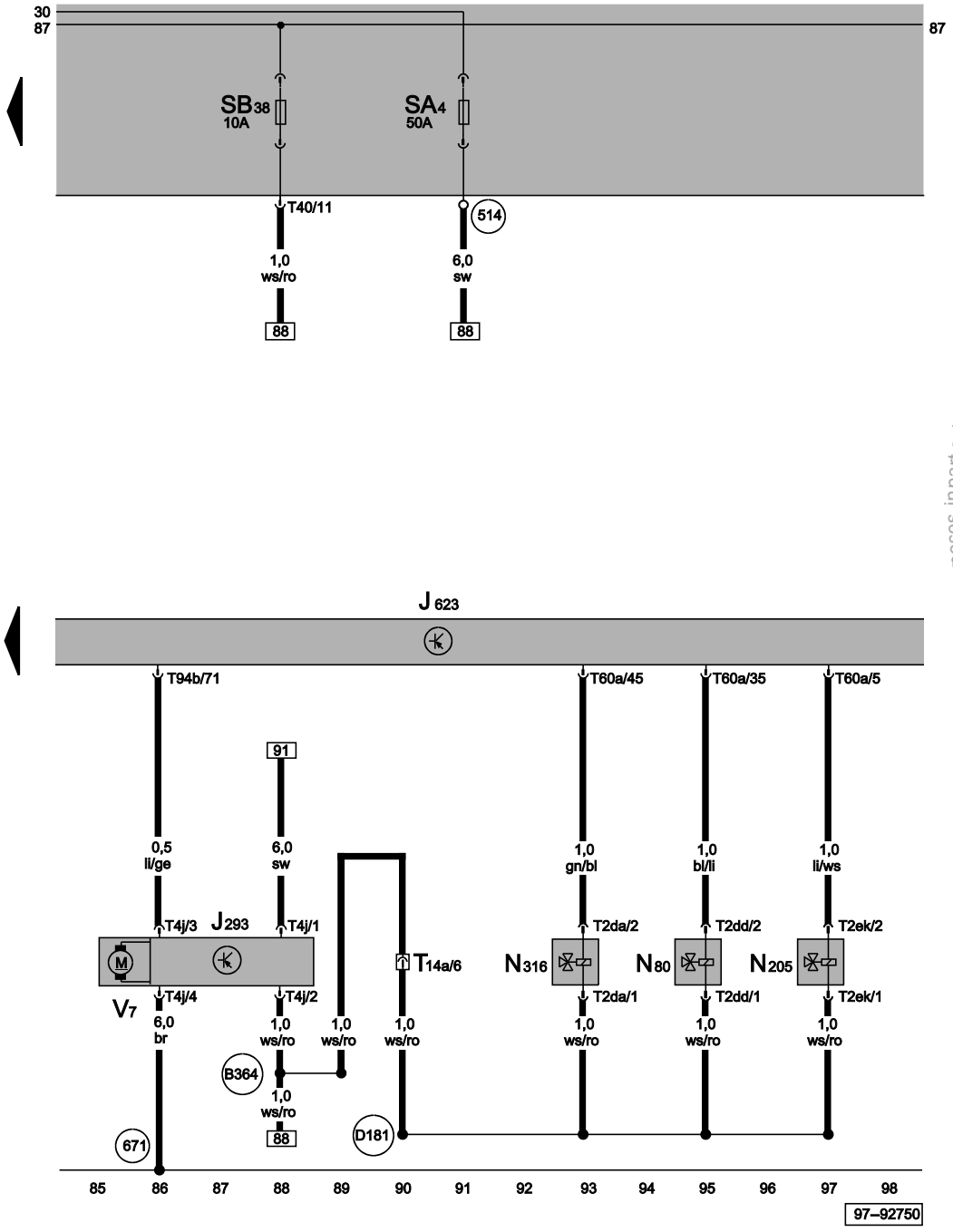


Engine control unit, Hall sender, intake air temperature sender, intake manifold pressure sender, intake manifold flap potentiometer

G40	Hall sender
G42	Intake air temperature sender
G71	Intake manifold pressure sender
G336	Intake manifold flap potentiometer
J623	Engine control unit
T3be	3-pin connector
T3bj	3-pin connector
T4bl	4-pin connector
T60a	60-pin connector
D101	Connection 1, in engine compartment wiring harness
D190	Earth connection 3 (5V), in engine wiring harness

ws	=	white
sw	=	black
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gr	=	grey
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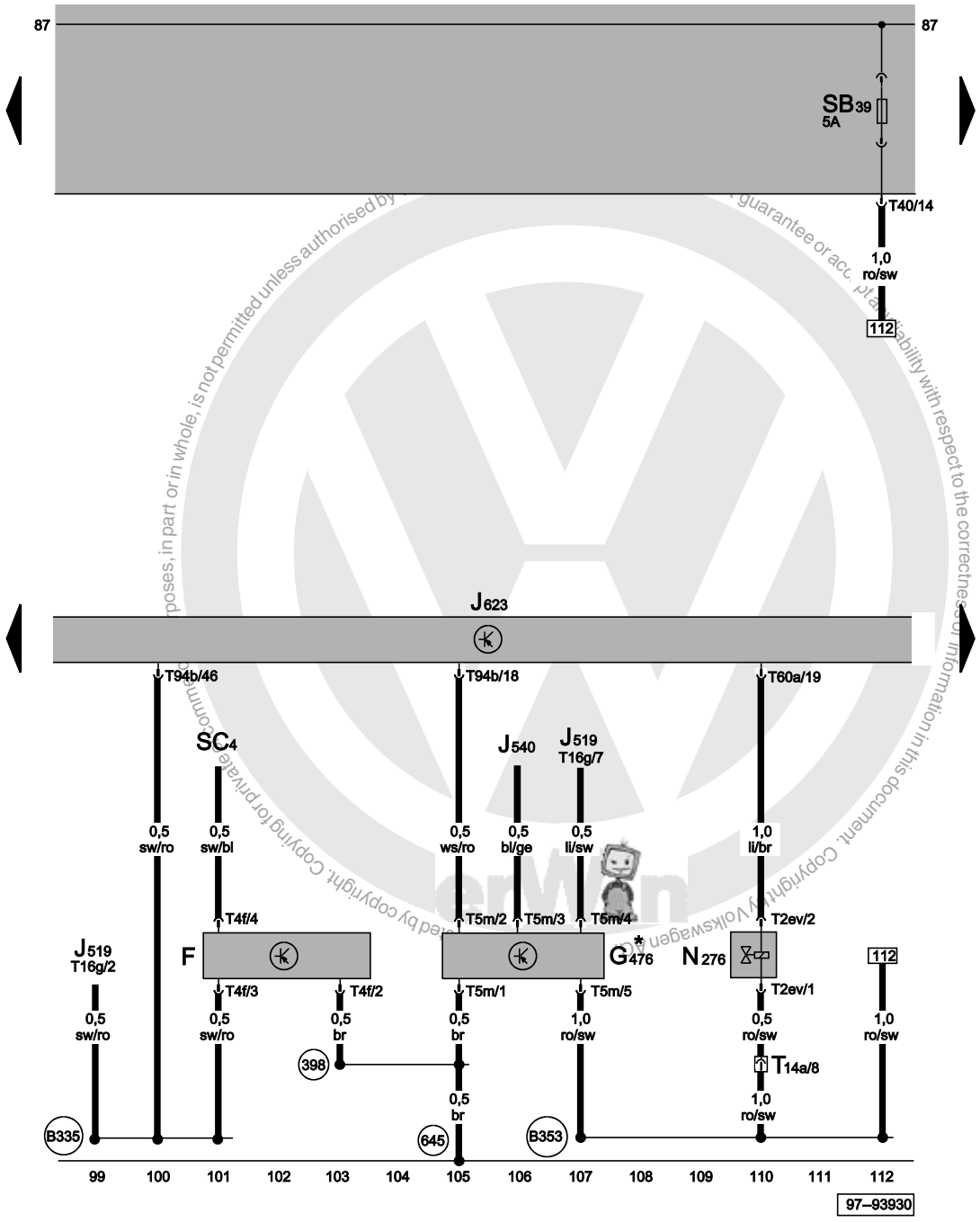


Engine control unit, radiator fan control unit, activated charcoal filter system solenoid valve 1, inlet camshaft control valve 1

J293	Radiator fan control unit
J623	Engine control unit
N80	Activated charcoal filter system solenoid valve 1
N205	Inlet camshaft control valve 1
N316	Intake manifold flap valve
SA4	Fuse 4 on fuse holder on battery
SB38	Fuse 38 on fuse holder
T2da	2-pin connector
T2dd	2-pin connector
T2ek	2-pin connector
T4j	4-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T60a	60-pin connector
T94b	94-pin connector
V7	Radiator fan
514	Screw connection 4 (30a), on relay plate
671	Earth point 1, on front of left longitudinal member
B364	Positive connection 15 (87a), in main wiring harness
D181	Connection 2 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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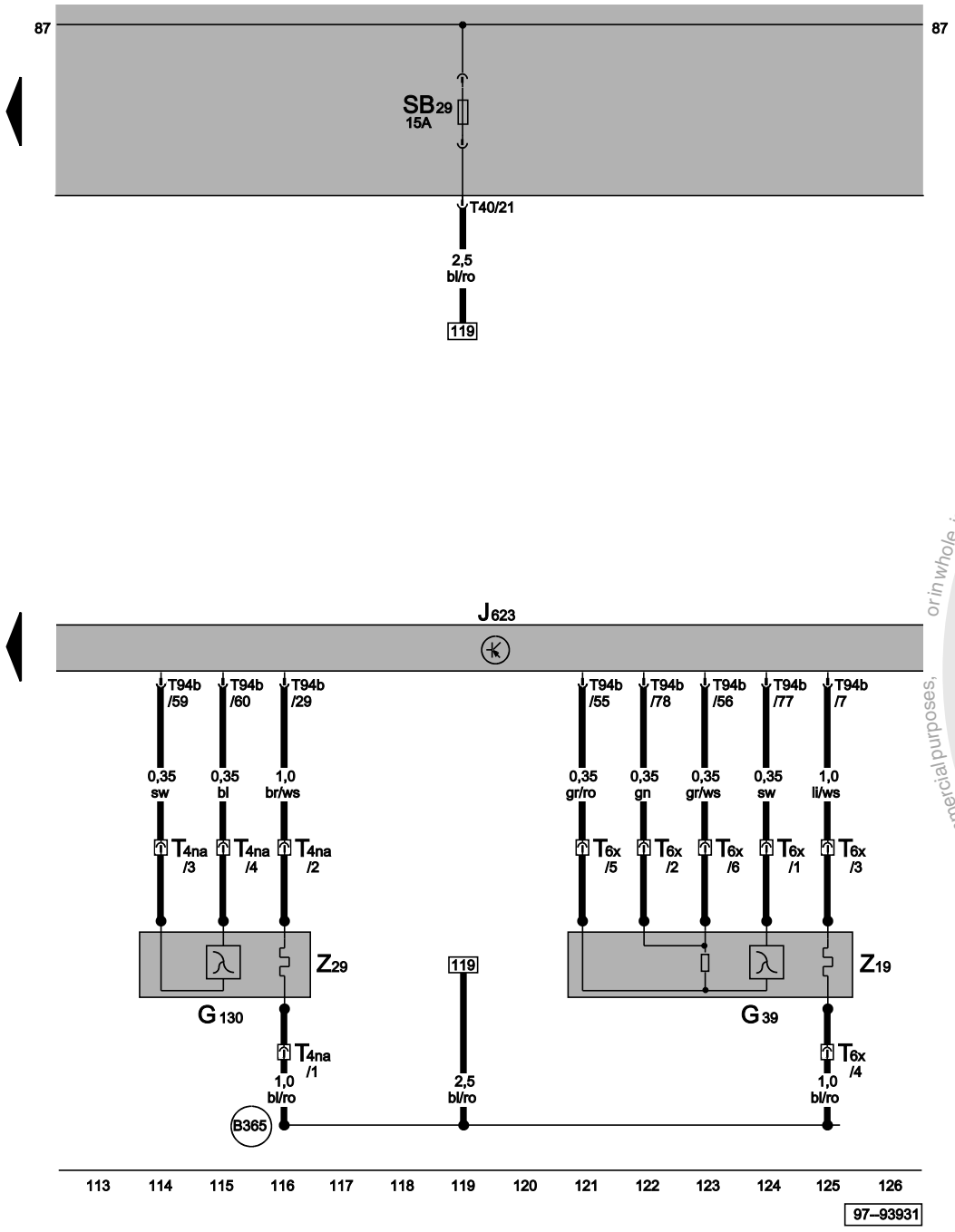


ws = white
sw = black
ro = red
br = brown
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gr = grey
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Engine control unit, fuel pressure regulating valve, clutch position sender, brake light switch

F	Brake light switch
G476	Clutch position sender *
J519	Onboard supply control unit
J540	Electric park and handbrake control unit
J623	Engine control unit
N276	Fuel pressure regulating valve
SB39	Fuse 39 on fuse holder B
SC4	Fuse 4 on fuse holder C
T2ev	2-pin connector
T4f	4-pin connector
T5m	5-pin connector *
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T16g	16-pin connector, black
T40	40-pin connector, under electronics box, in engine compartment
T60a	60-pin connector
T94b	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B353	Positive connection 4 (87a), in main wiring harness
*	only models with manual gearbox

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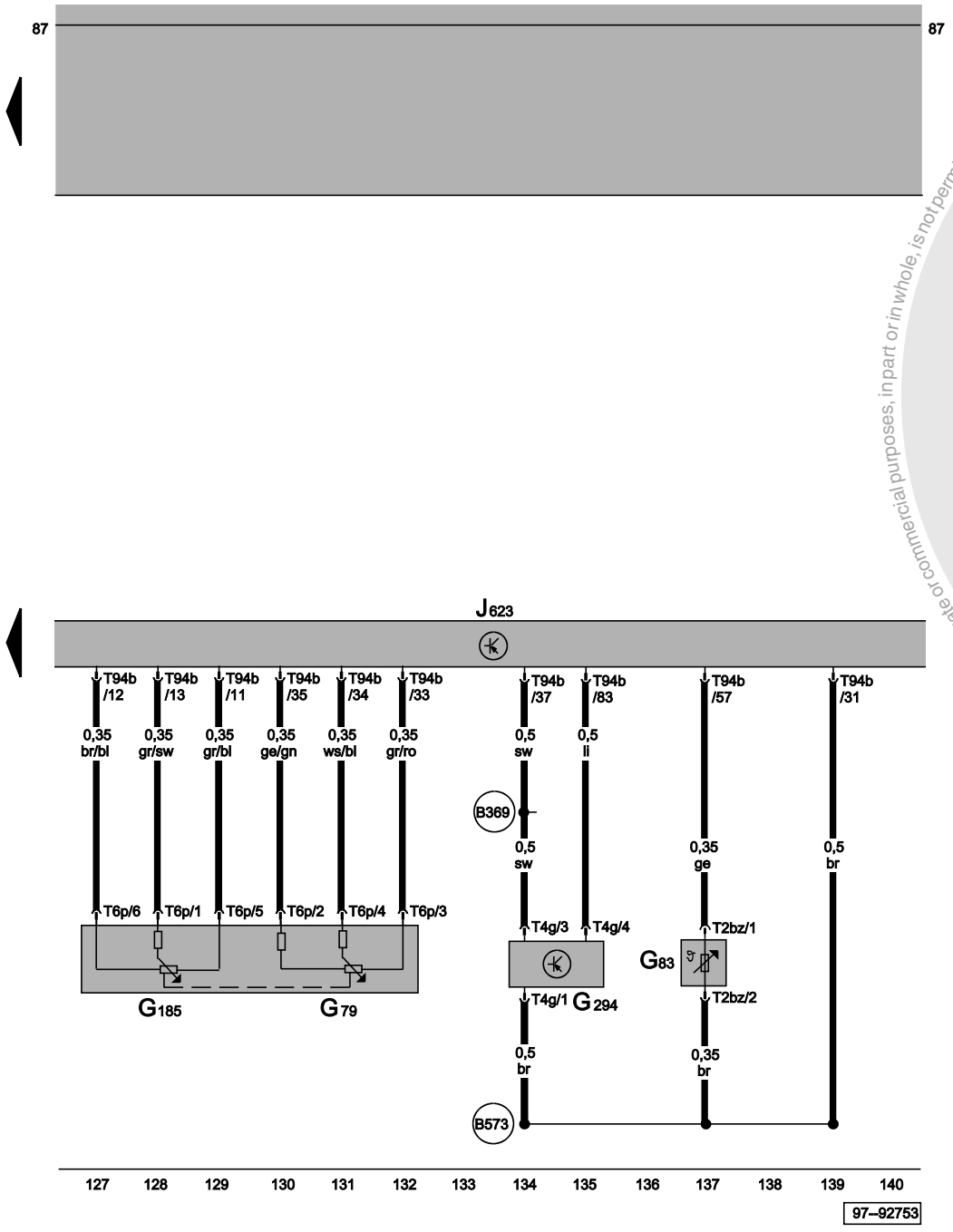


Engine control unit, lambda probe, lambda probe heater

G39	Lambda probe
G130	Lambda probe after catalytic converter
J623	Engine control unit
SB29	Fuse 29 on fuse holder B
T4na	4-pin connector, black, coupling point lambda probe
T6x	6-pin connector, black, coupling point lambda probe
T40	40-pin connector, under electronics box, in engine compartment
T94b	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
B365	Positive connection 16 (87a), in main wiring harness

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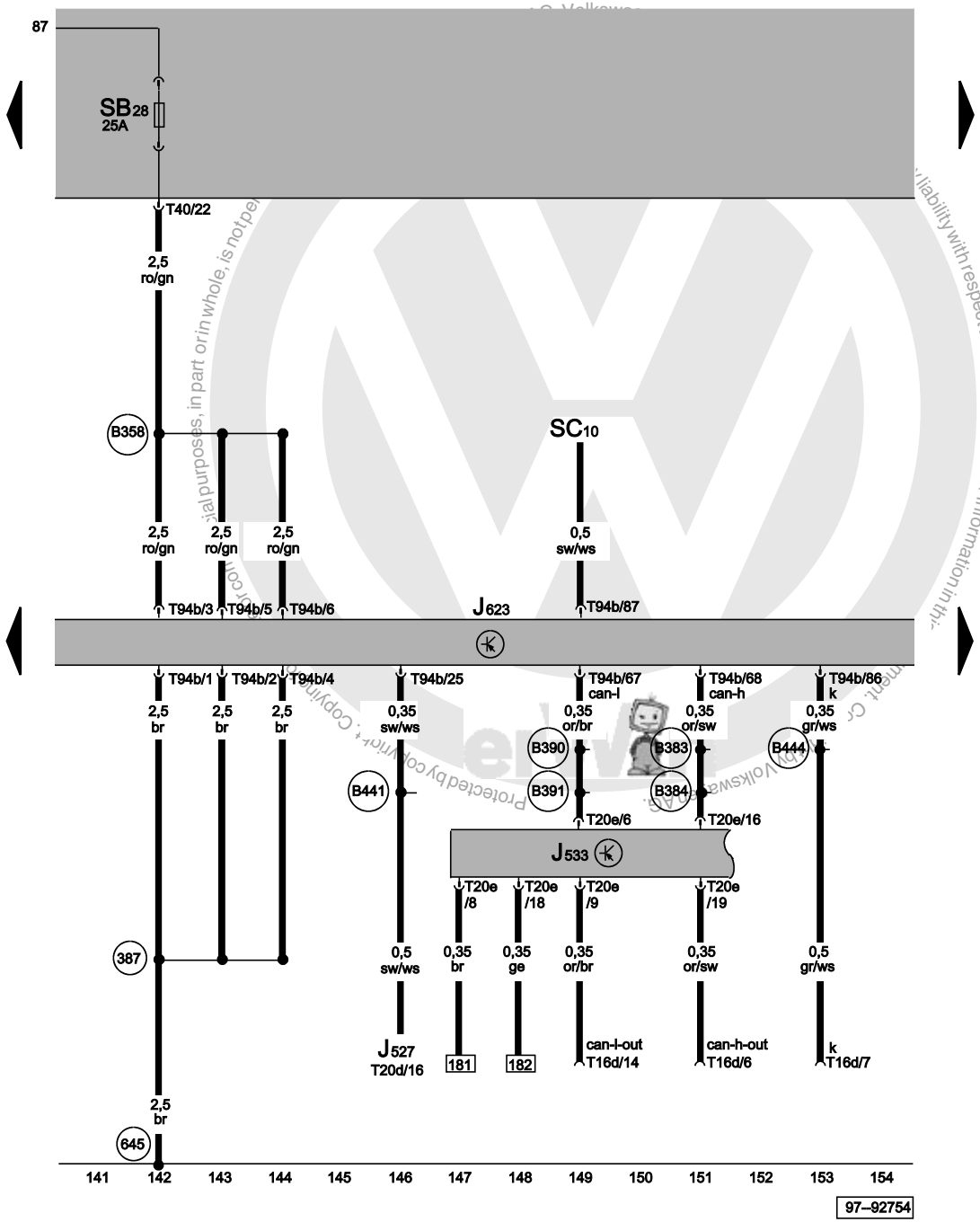


Engine control unit, brake servo pressure sensor, accelerator position sender, accelerator position sender 2

G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
G294	Brake servo pressure sensor
J623	Engine control unit
T2bz	2-pin connector
T4g	4-pin connector
T6p	6-pin connector
T94b	94-pin connector
B369	Connection 1 (5V), in main wiring harness
B573	Connection 40, in main wiring harness

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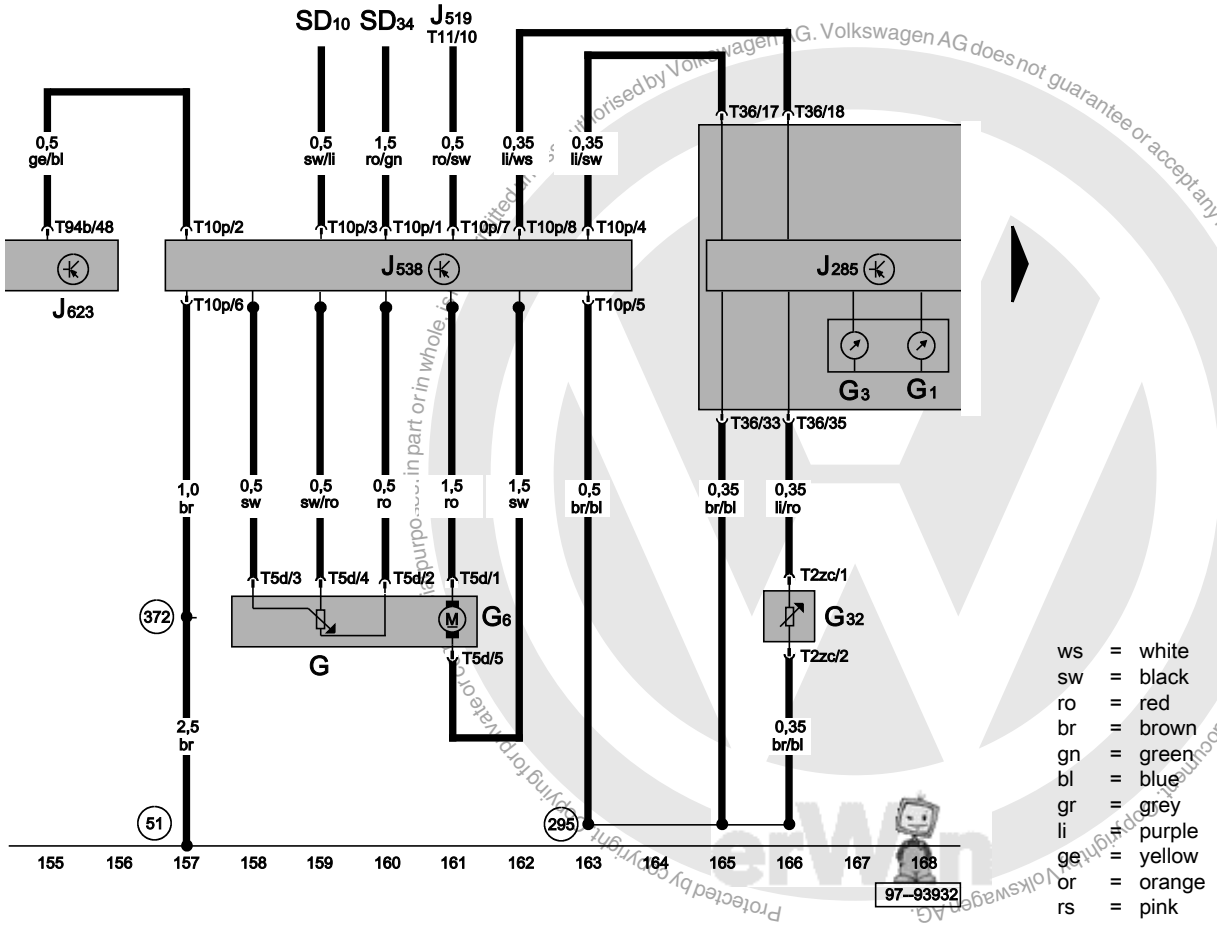
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Engine control unit, data bus diagnostic interface, self-diagnosis connection

J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J623	Engine control unit
SB28	Fuse 28 on fuse holder
SC10	Fuse 10 on fuse holder
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T20d	20-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T94b	94-pin connector
387	Earth connection 22, in main wiring harness
645	Earth point 1, on bulkhead
B358	Positive connection 9 (87a), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

Engine control unit, fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G6	Fuel system pressurisation pump
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J538	Fuel pump control unit
J623	Engine control unit
SD10	Fuse 10 on fuse holder D
SD34	Fuse 34 on fuse holder D
T2zc	2-pin connector
T5d	5-pin connector
T10p	10-pin connector
T11	11-pin connector, black
T36	36-pin connector
T94b	94-pin connector
(51)	Earth point, on right in luggage compartment
(295)	Earth connection 10, in interior wiring harness
(372)	Earth connection 7, in main wiring harness

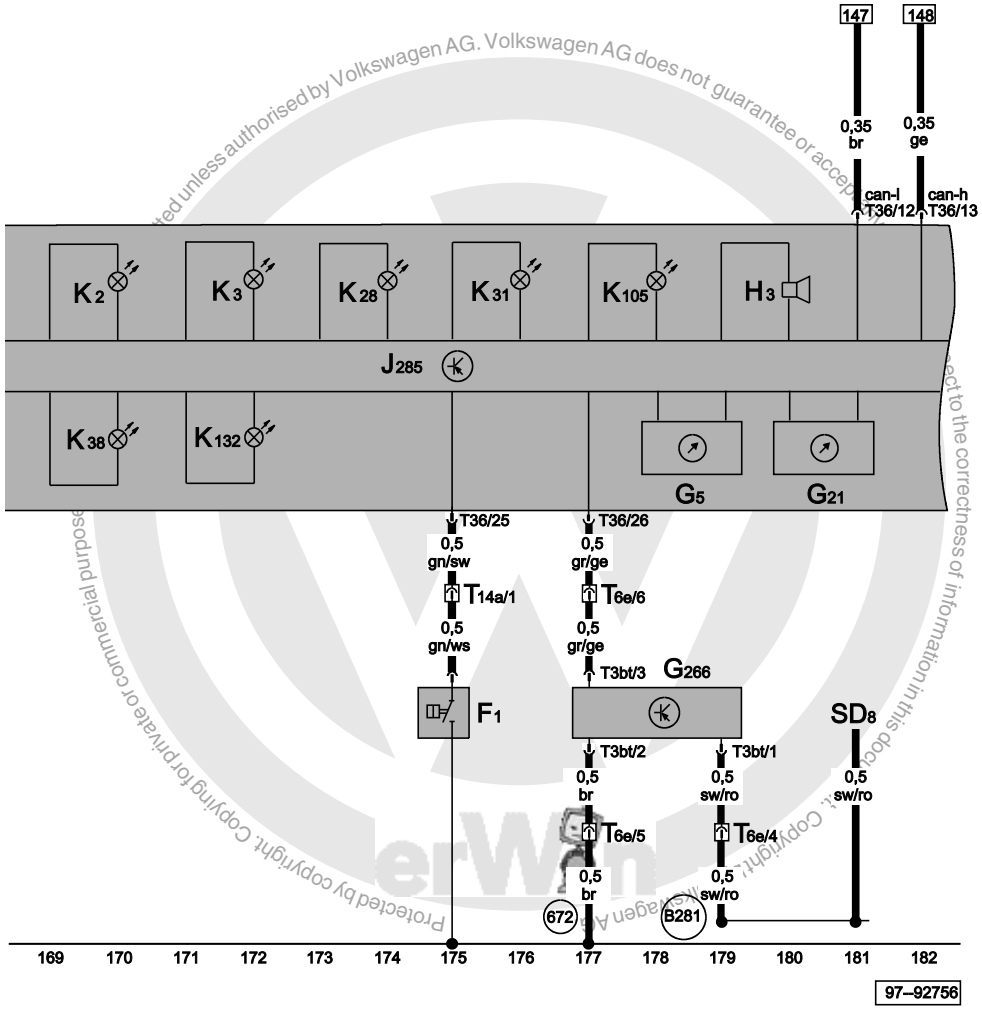


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Dash panel insert, warning lamps, oil pressure switch, buzzer or gong, oil level and oil temperature sender

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
H3	Buzzer or gong
J285	Control unit in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder
T3bt	3-pin connector
T6e	6-pin connector, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness



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2.0 l/110 kW Motronic, engine code BLR

from November 2004

2.0 l/110 kW Motronic, engine code BLY

from May 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

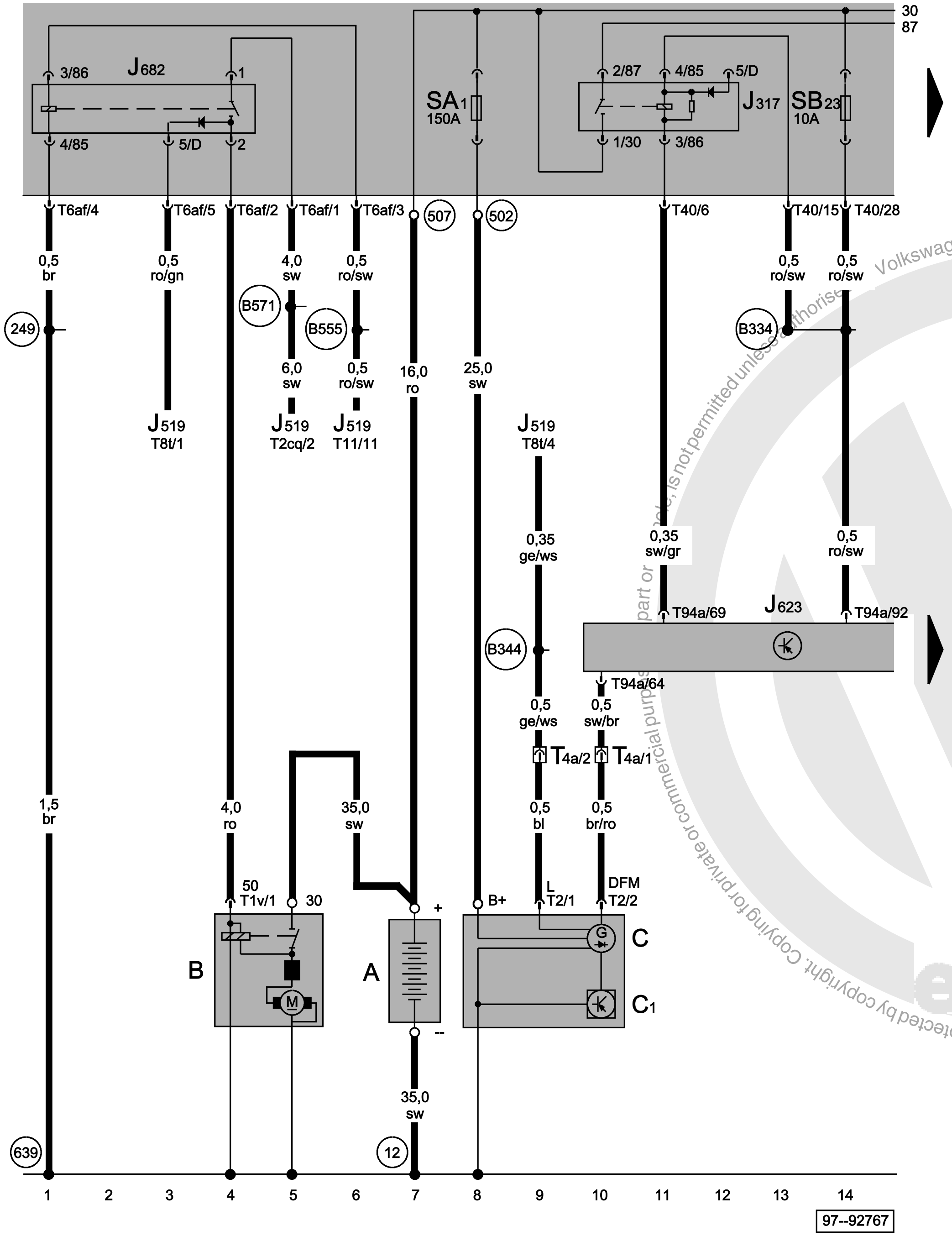
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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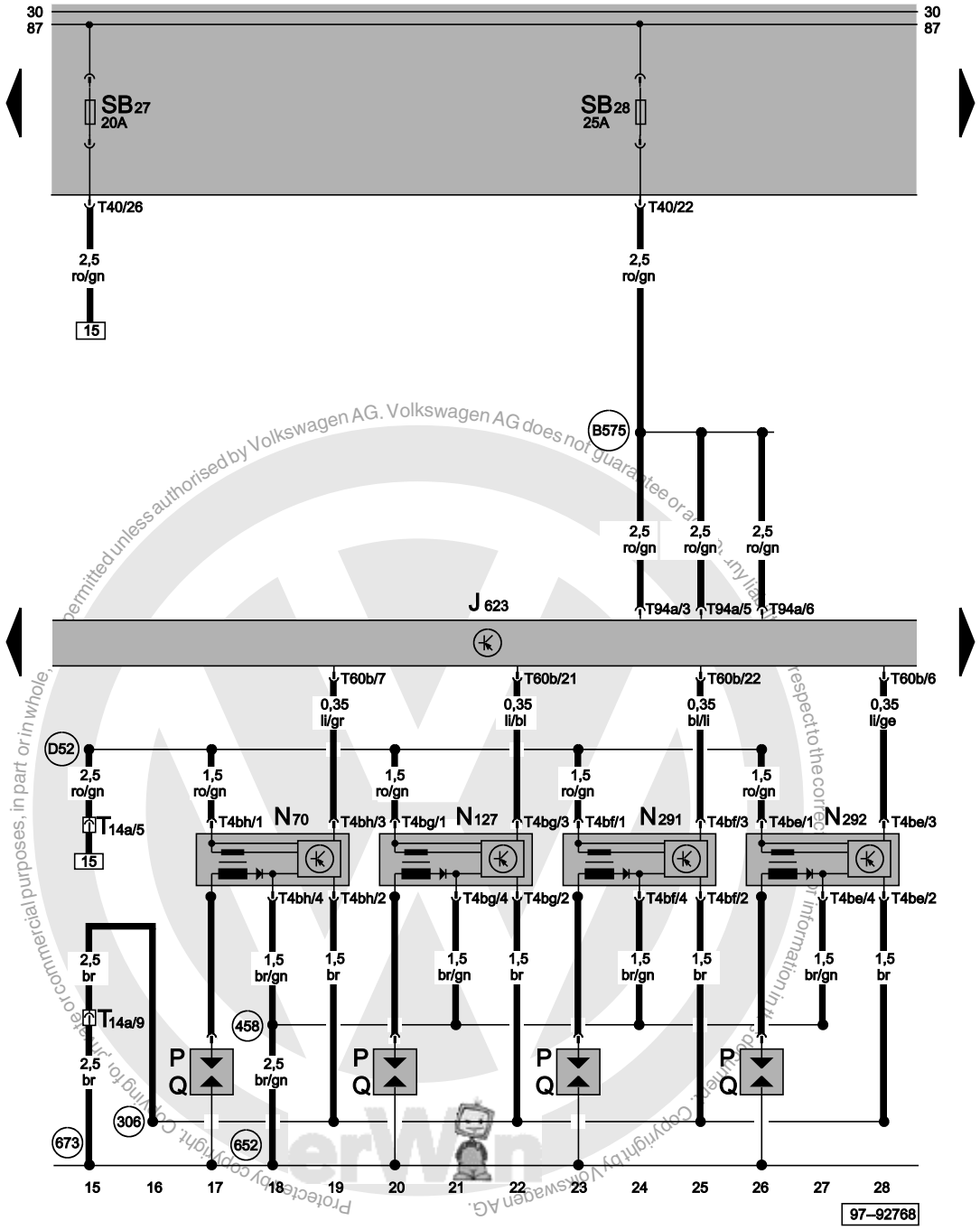


Terminals 30 + 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
SA1	Fuse 1 on fuse holder A
SB23	Fuse 23 on fuse holder B
T1v	Single connector
T2	2-pin connector
T2cq	2-pin connector
T4a	4-pin connector, near starter
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
T40	40-pin connector, under electronics box, in engine compartment
T94a	94-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
502	Screw connection 1 (30a), on relay plate
507	Screw connection (30), on fuse holder on battery
639	Earth point, left A-pillar
B334	Positive connection 20 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness

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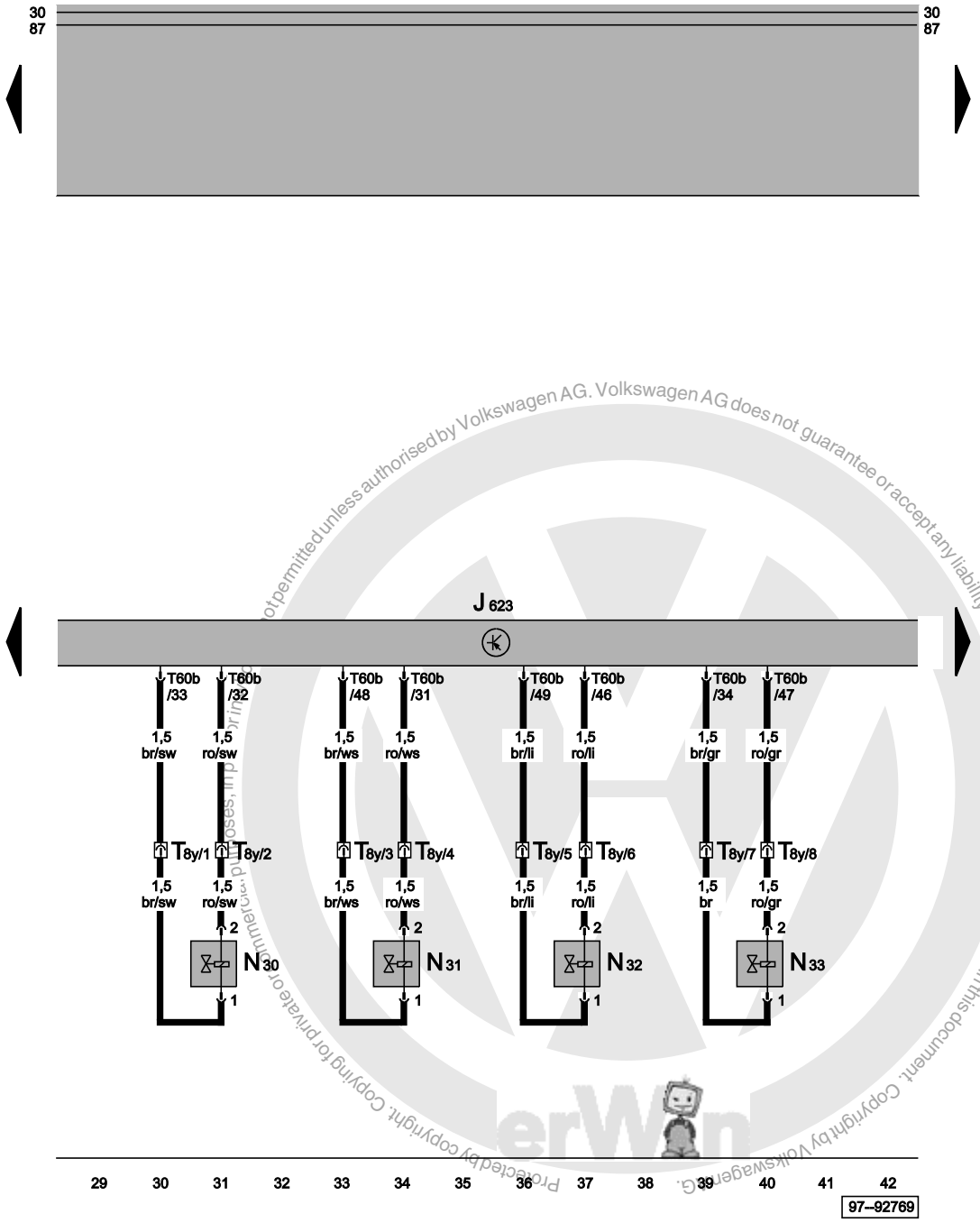


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Engine control unit, ignition coils 1 to 4 with output stage, spark plugs, spark plug connector

J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
SB27	Fuse 27 on fuse holder B
SB28	Fuse 28 on fuse holder B
T4be	4-pin connector
T4bf	4-pin connector
T4bg	4-pin connector
T4bh	4-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T60b	60-pin connector
T94a	94-pin connector
306	Earth connection (ignition coils), in engine harness
458	Earth connection 3, in engine harness
652	Earth point for engine and gearbox earth
673	Earth point 3, on front of left longitudinal member
B575	Positive connection 21 (87a), in main wiring harness
D52	Positive connection (15a), in engine compartment wiring harness

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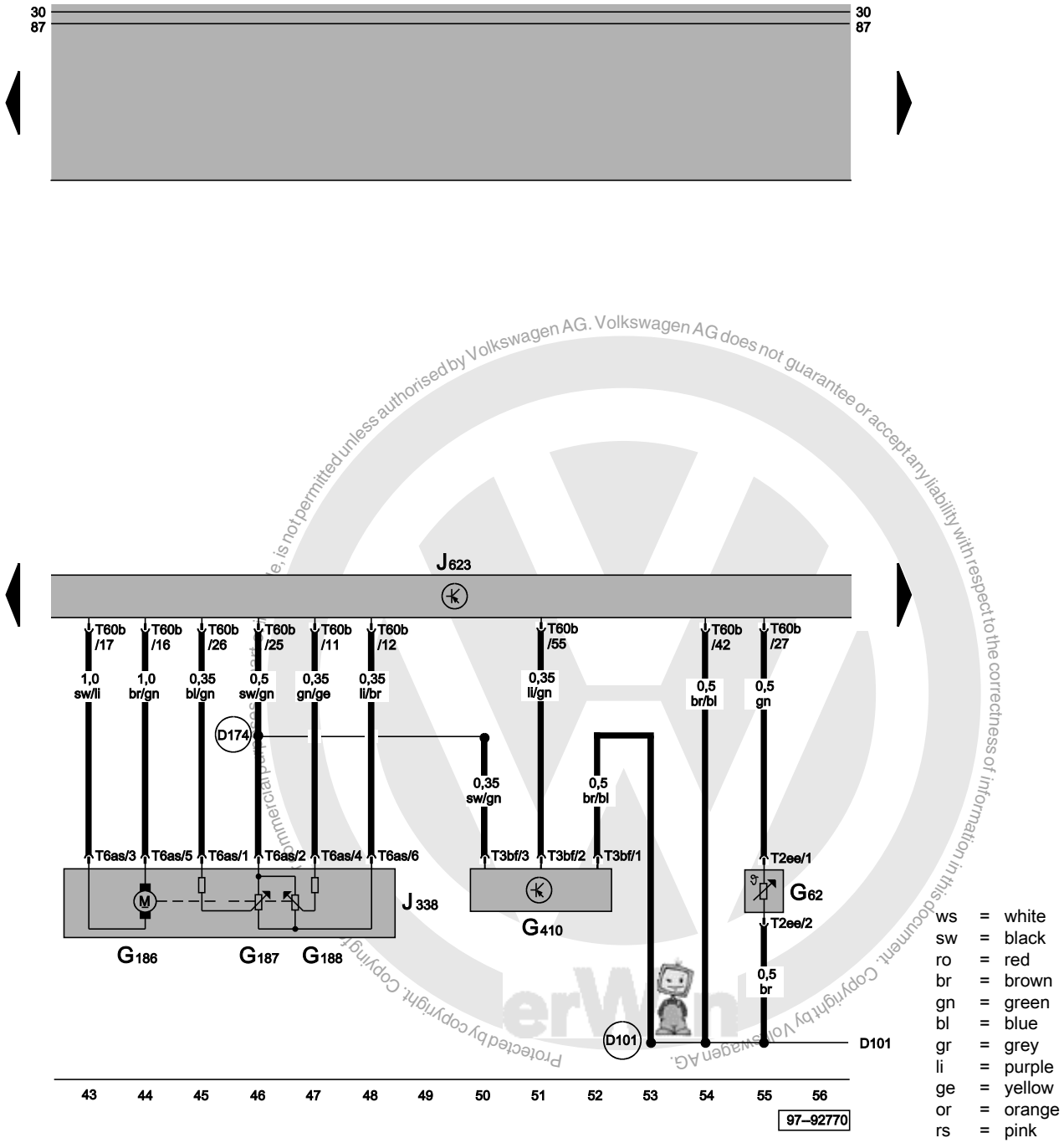


Engine control unit, injectors for cylinders 1-4

J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8y	8-pin connector, near cylinder head
T60b	60-pin connector

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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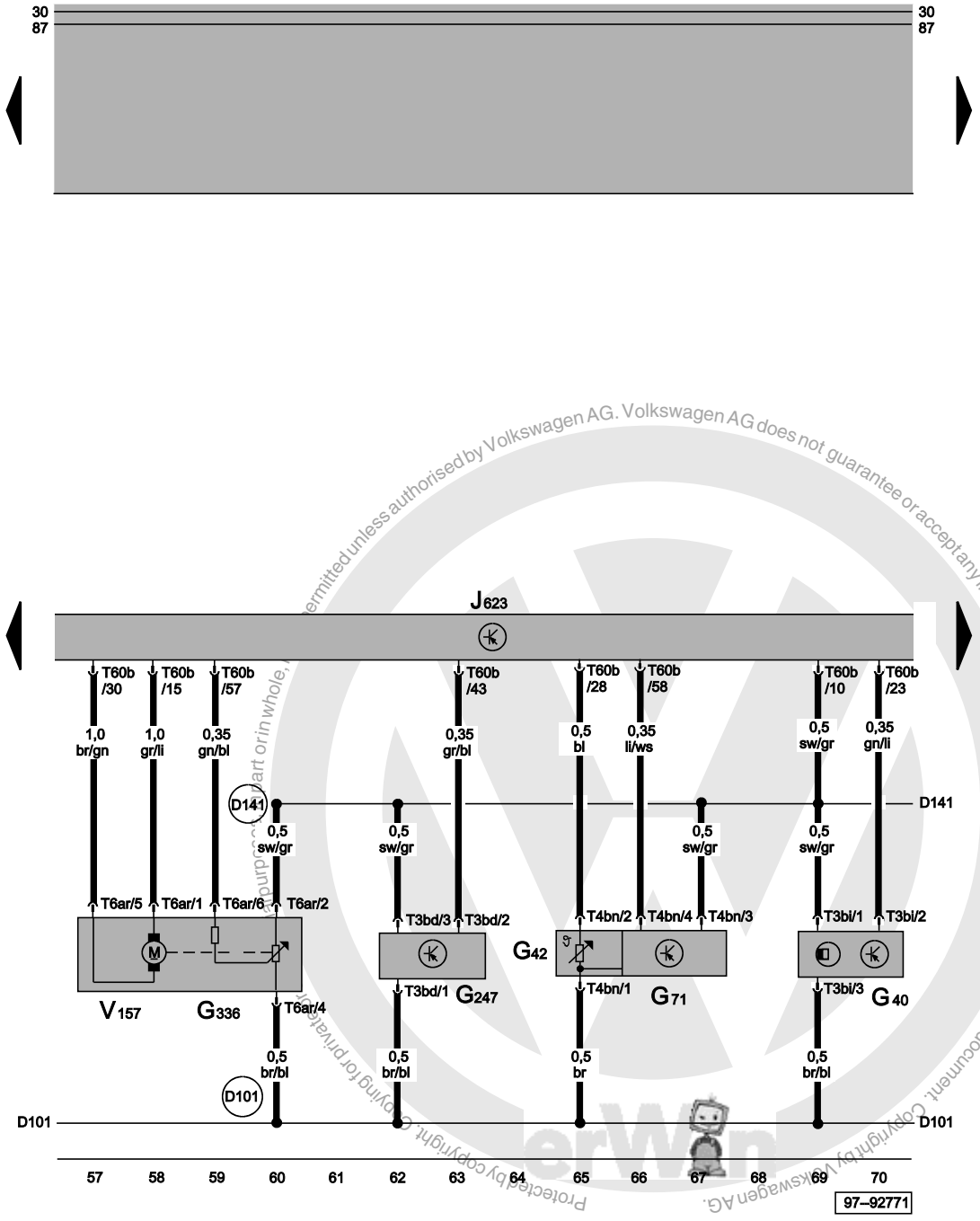


Engine control unit, throttle valve module, fuel pressure sender for low pressure, coolant temperature sender

G62	Coolant temperature sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
G410	Fuel pressure sender for low pressure
J338	Throttle valve module
J623	Engine control unit
T2ee	2-pin connector
T3bf	3-pin connector
T6as	6-pin connector
T60b	60-pin connector
D101	Connection 1, in engine compartment wiring harness
D174	Earth connection 2 (5V), in engine wiring harness

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gn	=	green
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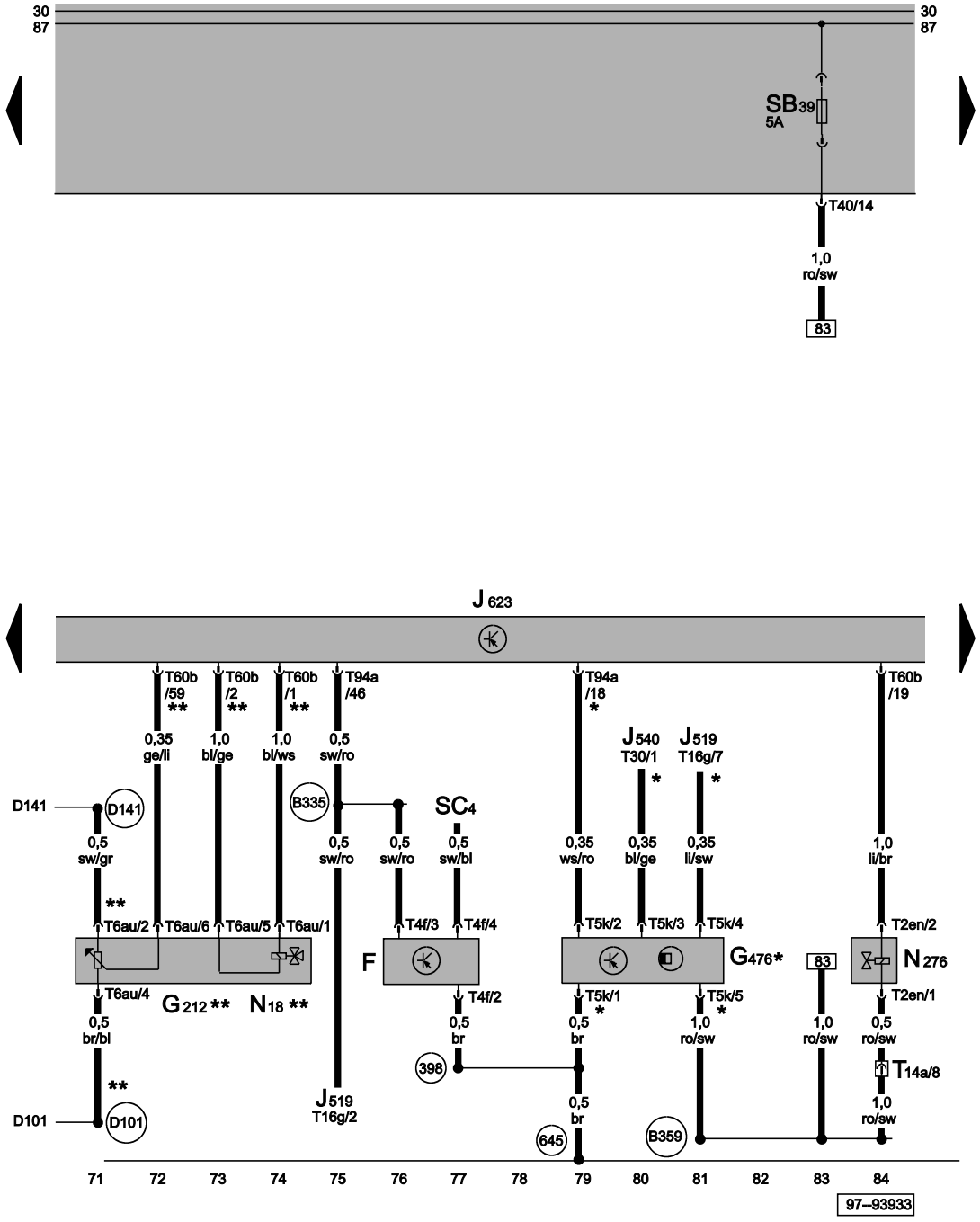


Engine control unit, intake manifold flap potentiometer, fuel pressure sender, fuel pressure sender

G40	Hall sender
G42	Intake air temperature sender
G71	Intake manifold pressure sender
G247	Fuel pressure sender
G336	Intake manifold flap potentiometer
J623	Engine control unit
T3bd	3-pin connector
T3bi	3-pin connector
T4bn	4-pin connector
T6ar	6-pin connector
T60b	60-pin connector
V157	Intake manifold flap motor
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness

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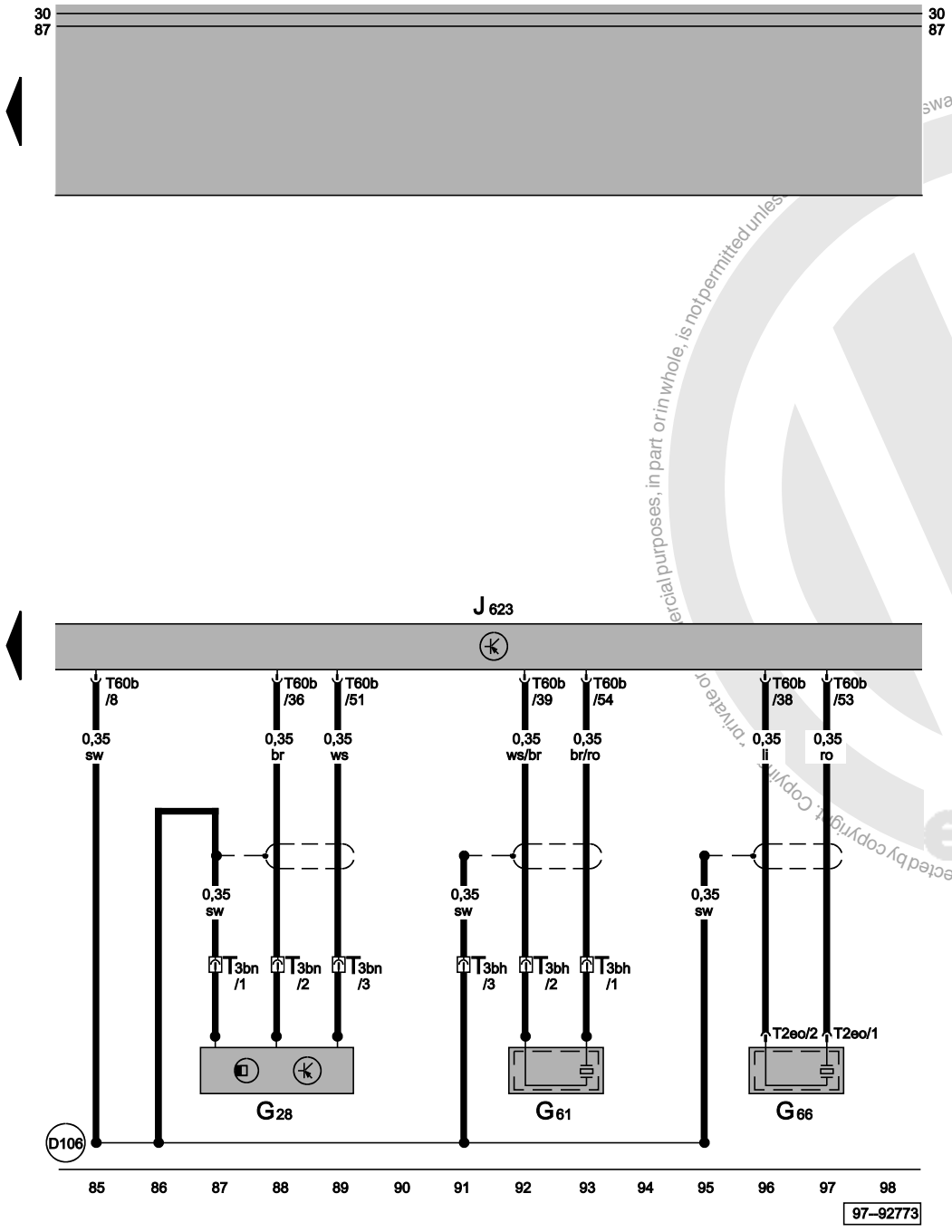


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Engine control unit, fuel pressure regulating valve, clutch position sender, brake light switch

F	Brake light switch
G212	Exhaust gas recirculation potentiometer
G476	Clutch position sender *
J519	Onboard supply control unit
J540	Electric park and handbrake control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
N276	Fuel pressure regulating valve
SB39	Fuse 39 on fuse holder B
SC4	Fuse 4 on fuse holder C
T2en	2-pin connector
T4f	4-pin connector
T5k	5-pin connector *
T6au	6-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T16g	16-pin connector, black
T30	30-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T60b	60-pin connector
T94a	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B359	Positive connection 10 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness
*	only models with manual gearbox
**	only models with engine code BLR

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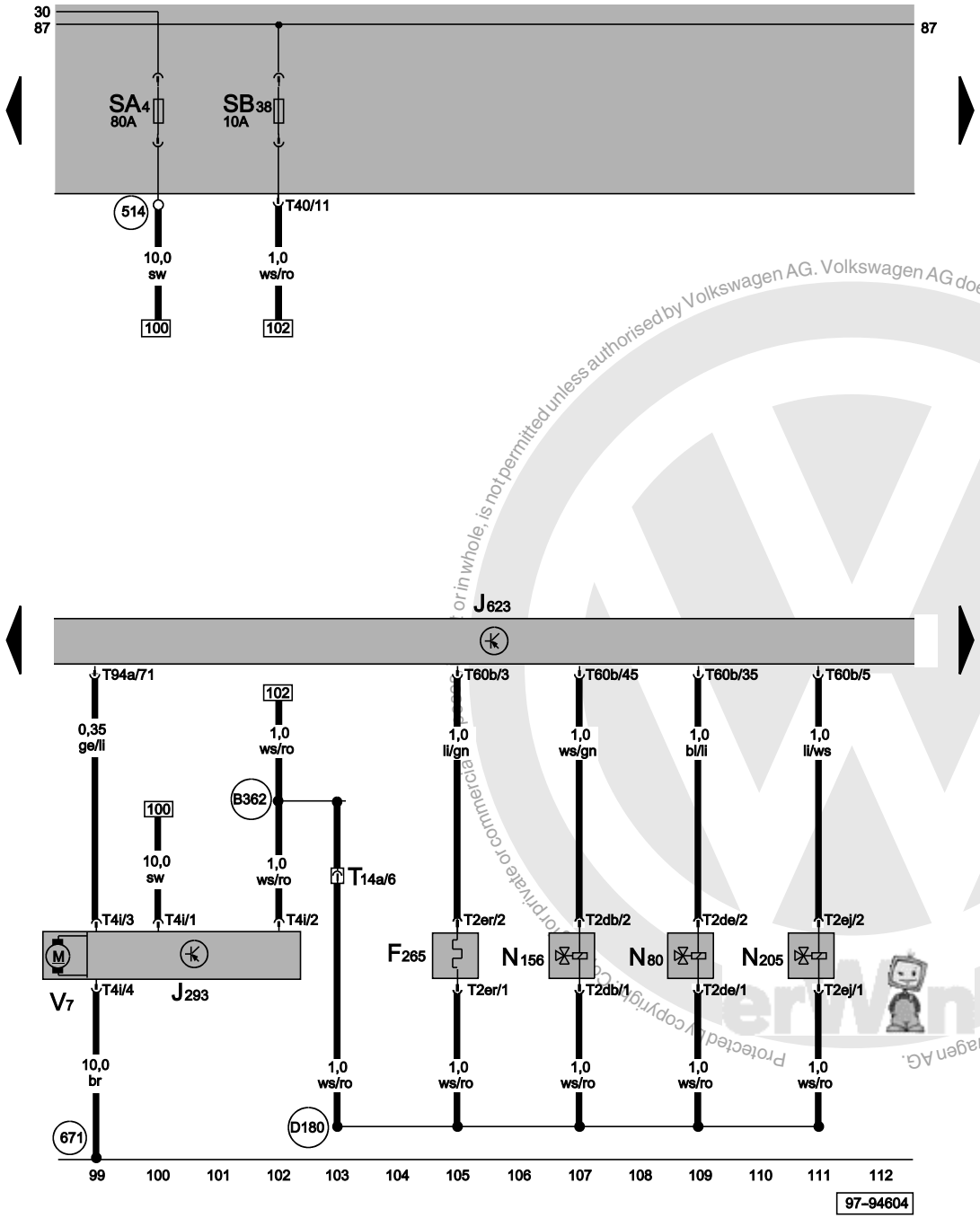


Engine control unit, engine speed sender, knock sensors 1 and 2

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J623	Engine control unit
T2eo	2-pin connector
T3bh	3-pin connector
T3bn	3-pin connector
T60b	60-pin connector
D106	Connection 4, in engine compartment wiring harness

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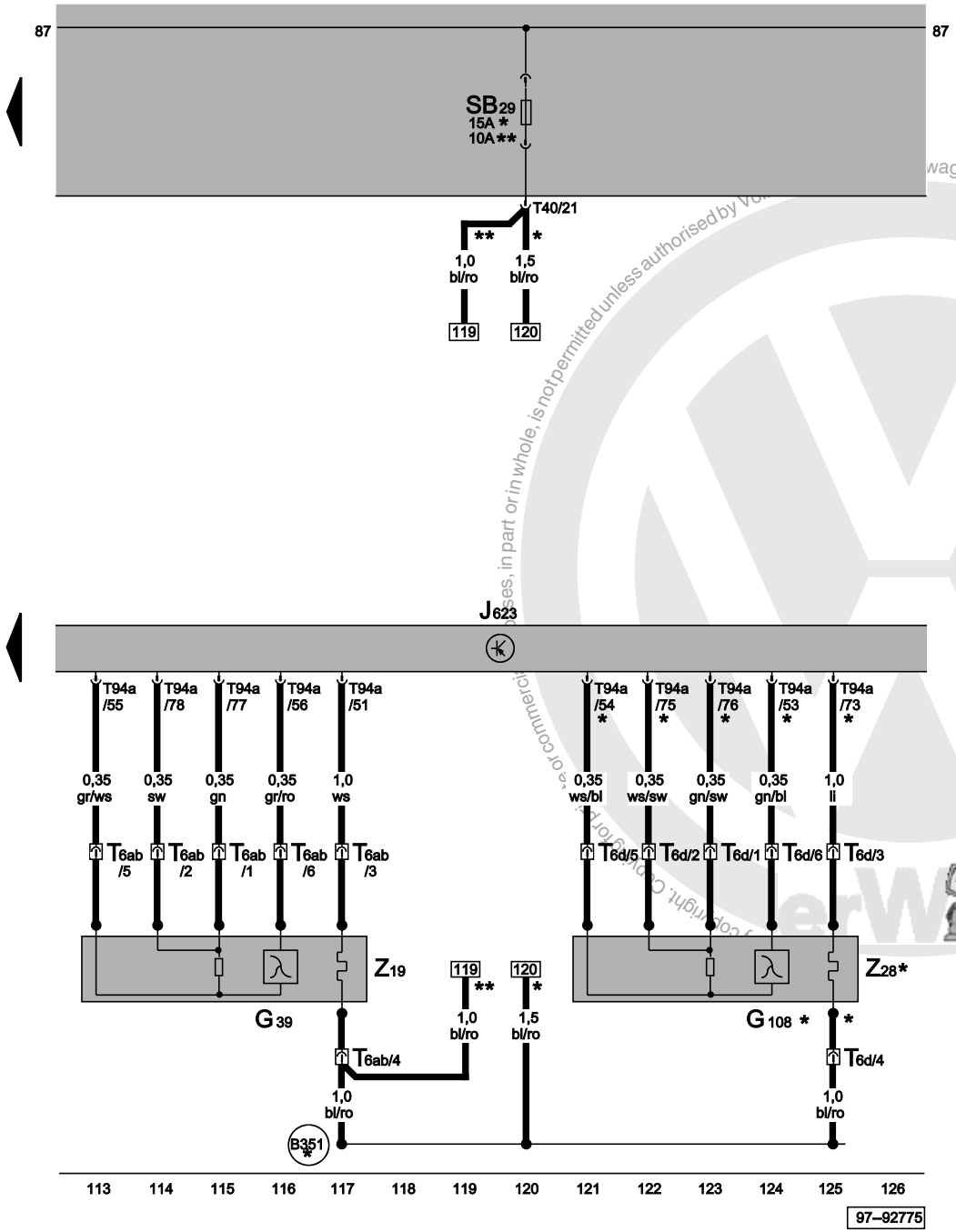


Engine control unit, radiator fan control unit, activated charcoal filter system solenoid valve 1, inlet camshaft control valve 1

F265	Map-controlled engine cooling system thermostat
J293	Radiator fan control unit
J623	Engine control unit
N80	Activated charcoal filter system solenoid valve 1
N205	Inlet camshaft control valve 1
N156	Variable intake manifold change-over valve
SA4	Fuse 4 on fuse holder A
SB38	Fuse 38 on fuse holder B
T2db	2-pin connector
T2de	2-pin connector
T2ej	2-pin connector
T2er	4-pin connector
T4i	4-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T60b	60-pin connector
T94a	94-pin connector
V7	Radiator fan
514	Screw connection 4 (30a), on relay plate
671	Earth point 1, on front of left longitudinal member
B362	Positive connection 13 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness

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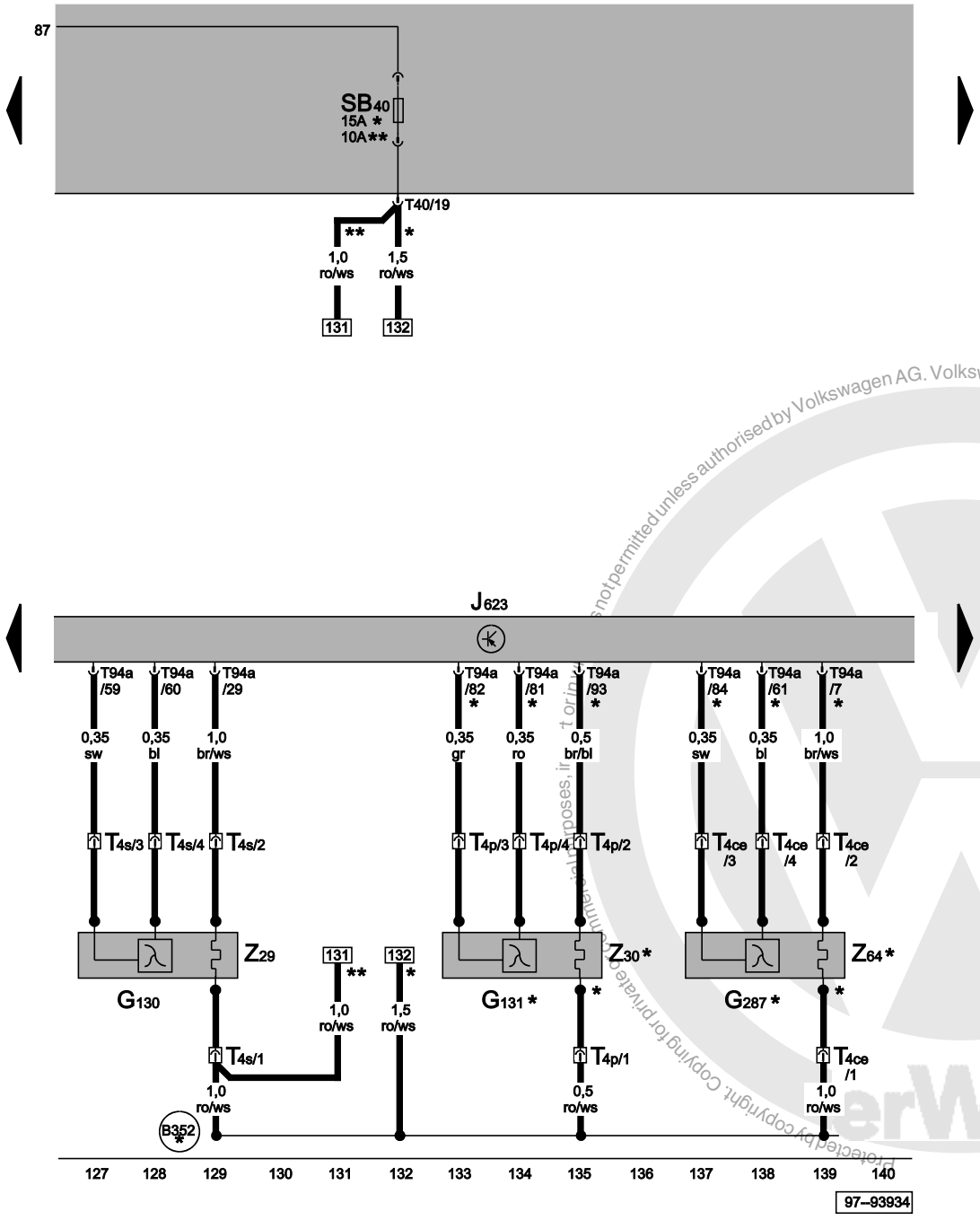
Engine control unit, lambda probe, lambda probe heater

G39	Lambda probe
G108	Lambda probe 2 *
J623	Engine control unit
SB29	Fuse 29 on fuse holder B
T6ab	6-pin connector, black, coupling point lambda probe
T6d	6-pin connector, black, coupling point lambda probe
T40	40-pin connector, under electronics box, in engine compartment
T94a	94-pin connector
Z19	Lambda probe heater
Z28	Lambda probe heater 2 *
B351	Positive connection 2 (87a), in main wiring harness *

* only models with engine code BLR
** only models with engine code BLY

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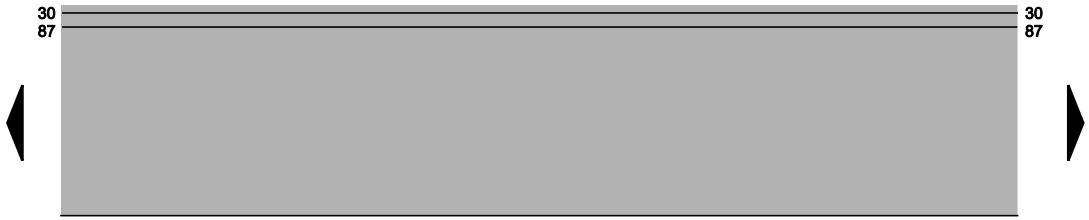


Engine control unit, lambda probe after catalytic converter

G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter *
G287	Lambda probe 3 after catalytic converter *
J623	Engine control unit
SB40	Fuse 40 on fuse holder B
T4ce	4-pin connector, connector point lambda probe
T4p	4-pin connector, connector point lambda probe
T4s	4-pin connector, connector point lambda probe
T40	40-pin connector, under electronics box, in engine compartment
T94a	94-pin connector
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter *
Z64	Lambda probe 3 heater after catalytic converter *
B352	Positive connection 3 (87a), in main wiring harness *
*	only models with engine code BLR
**	only models with engine code BLY

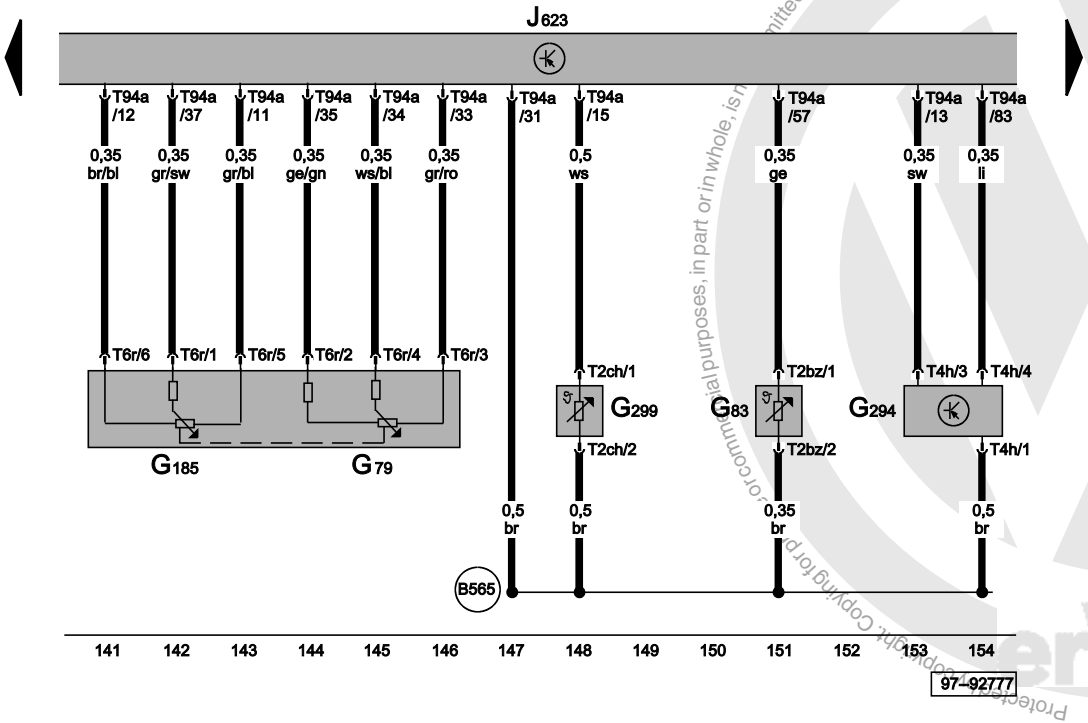
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gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

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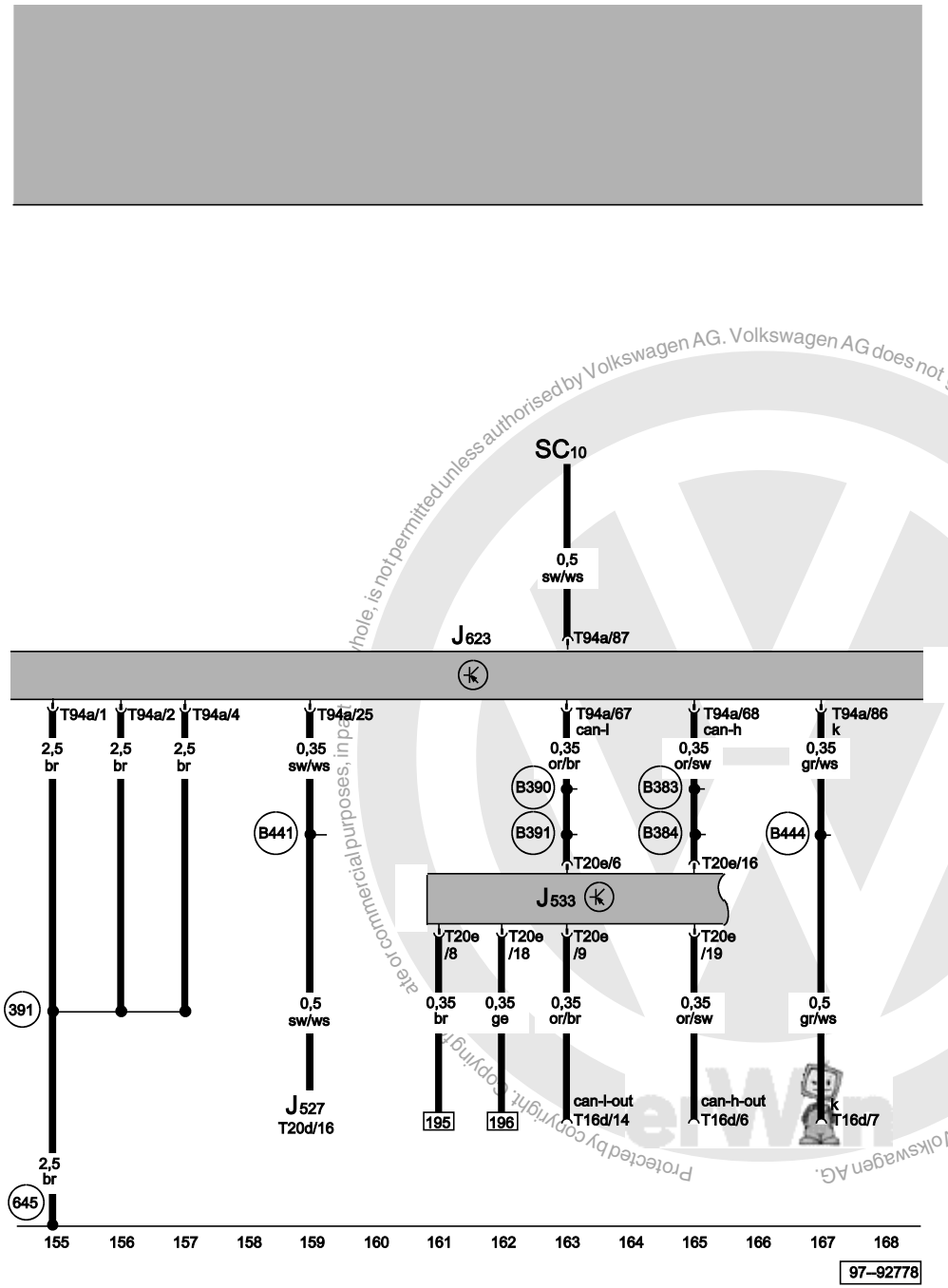
Engine control unit, accelerator position sender, brake servo pressure sensor

G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
G294	Brake servo pressure sensor
G299	Intake air temperature sender 2
J623	Engine control unit
T2bz	2-pin connector
T2ch	2-pin connector
T4h	4-pin connector
T6r	6-pin connector
T94a	94-pin connector
B565	Connection 32, in main wiring harness



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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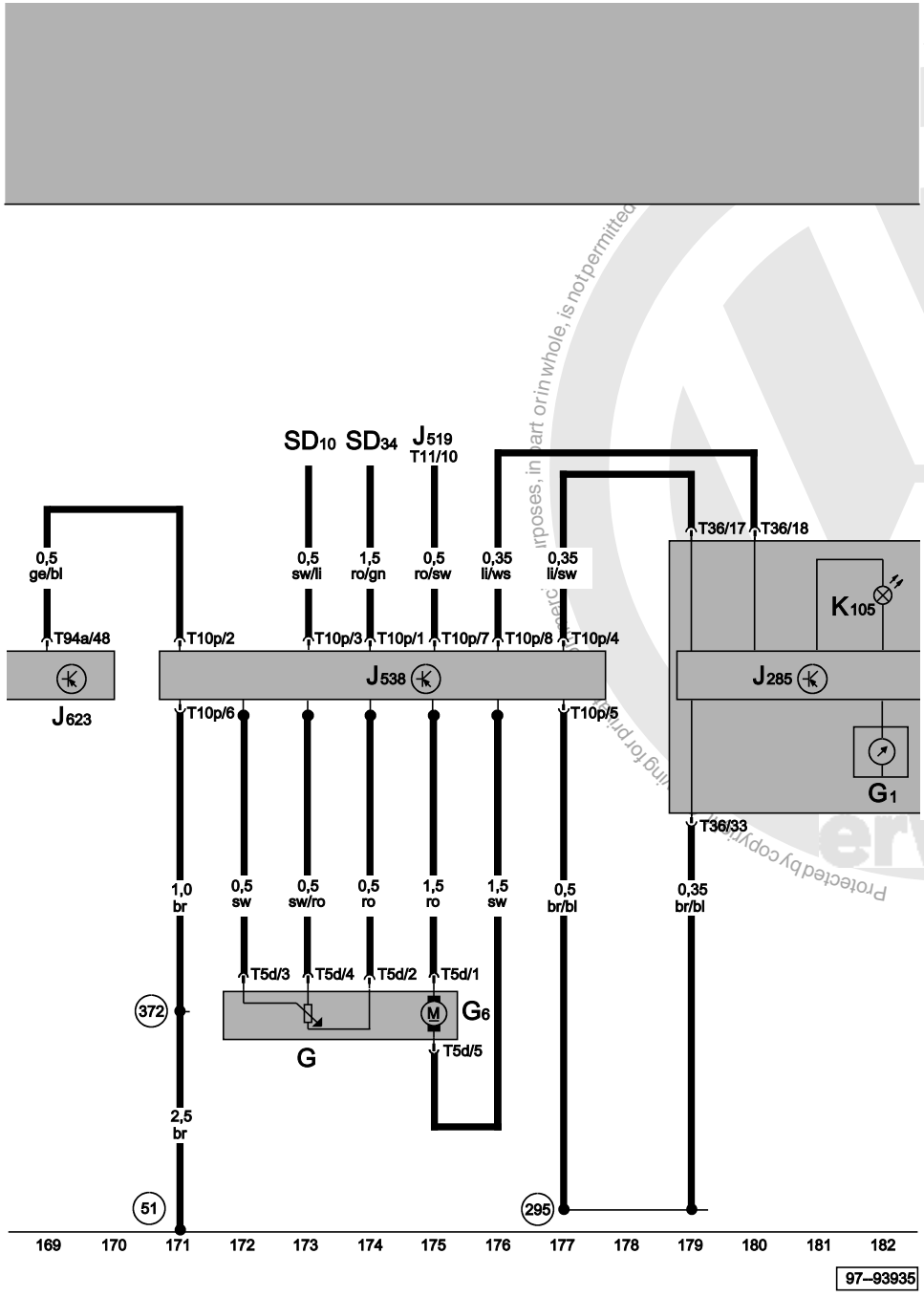


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, data bus diagnostic interface, self-diagnosis connection

J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J623	Engine control unit
SC10	Fuse 10 on fuse holder C
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T20d	20-pin connector
T94a	94-pin connector
391	Earth connection 26, in main wiring harness
645	Earth point 1, on bulkhead
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

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Engine control unit, fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump

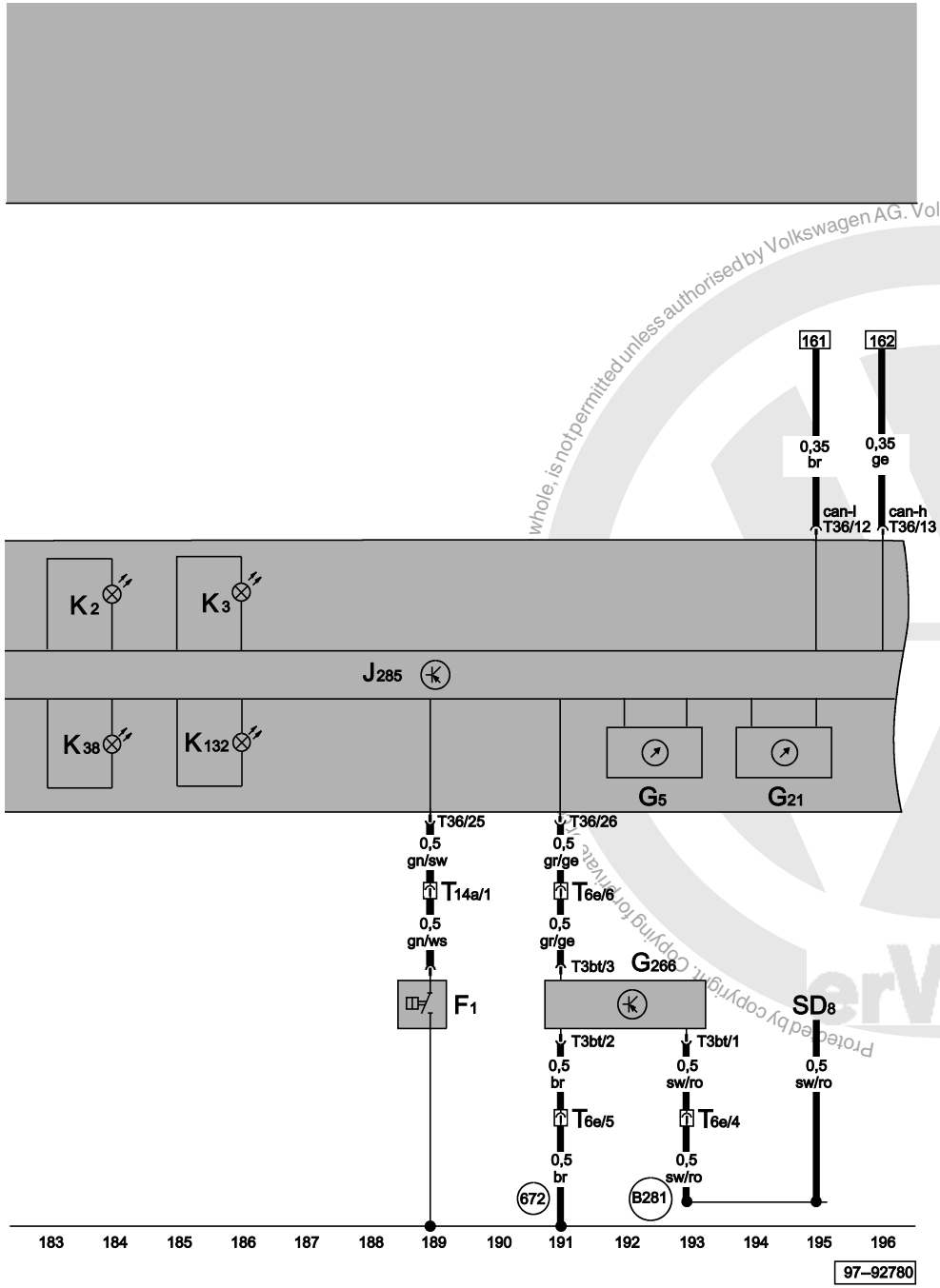
G	Fuel gauge sender
G1	Fuel gauge
G6	Fuel system pressurisation pump
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J538	Fuel pump control unit
J623	Engine control unit
K105	Reserve fuel warning lamp
SD10	Fuse 10 on fuse holder
SD34	Fuse 34 on fuse holder
T5d	5-pin connector
T10p	10-pin connector
T11	11-pin connector, black
T36	36-pin connector
T94a	94-pin connector
51	Earth point, on right in luggage compartment
295	Earth connection 10, in interior wiring harness
372	Earth connection 7, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender, rev. counter, speedometer

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K38	Oil level warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T3bt	3-pin connector
T6e	6-pin connector, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Compass

From April 2005

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

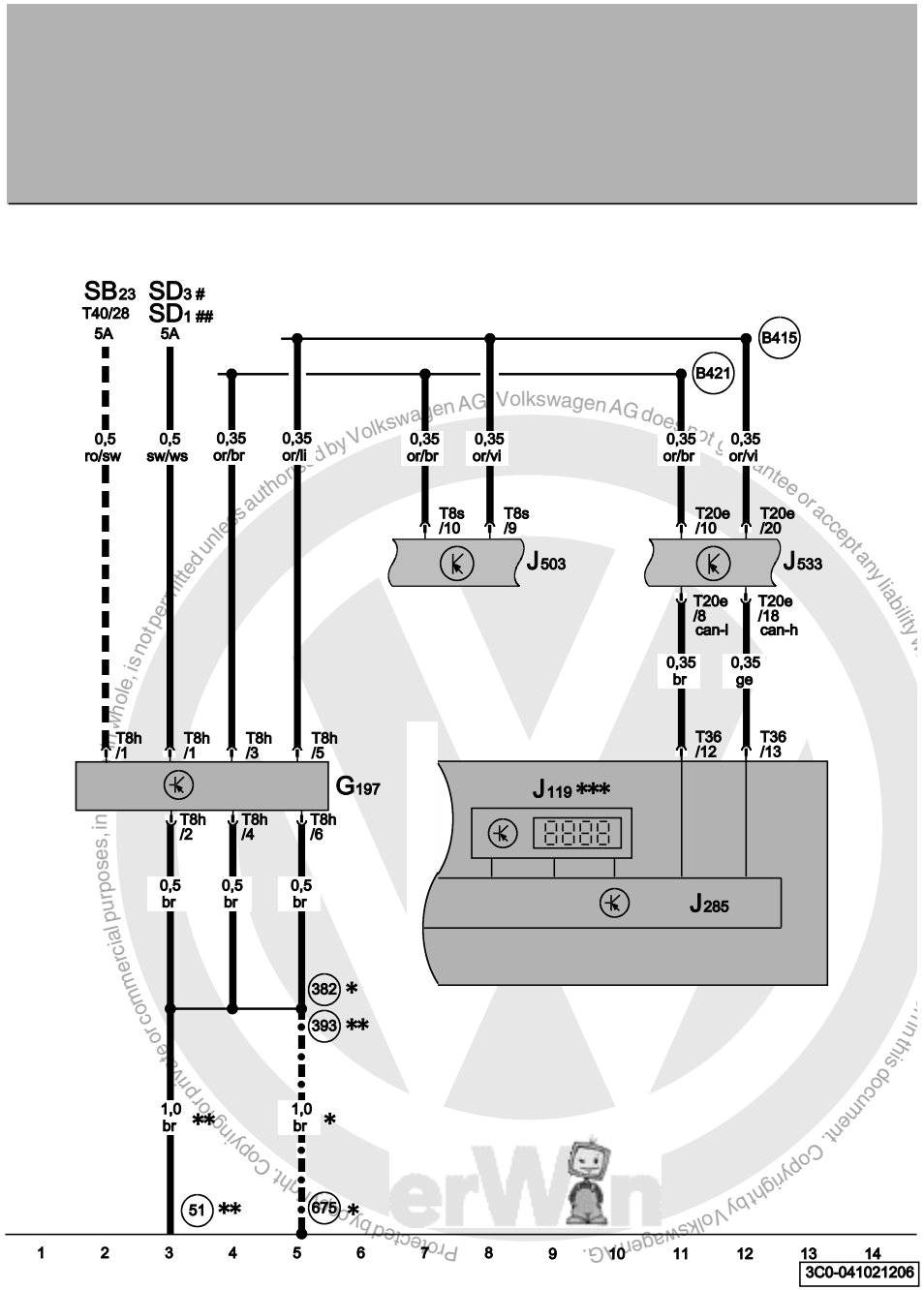
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Magnetic field sender for compass, data bus diagnostic interface

G197	Magnetic field sender for compass
J119	Multifunction display
J285	Control unit in dash panel insert
J503	Control unit with display for radio and navigation
J533	Data bus diagnosis interface
SB23	Fuse 23 on fuse holder B
SD1	Fuse 1 on fuse holder D
SD3	Fuse 3 on fuse holder D
T8h	8-pin connector
T8s	8-pin connector
T20e	20-pin connector
T36	36-pin connector
T40	40-pin connector
51	Earth point, on right in luggage compartment
382	Earth connection 17, in main wiring harness
393	Earth connection 28, in main wiring harness
675	Earth point 2, on right in luggage compartment
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only On saloon models
**	Only Variant models
***	Only models with multifunction display
#	Applicable to April 2005
##	Valid from May 2005
<fo:exter	Applicable from November 2005

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out//slp/
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<fo:exter Applicable from November 2006 for saloons
nal-
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ro = red ft_icons/
br = brown m_k_m.p
gn = green ng"
bl = blue content-
gr = grey width="2
li = purple 0pt"
ge = yellow scaling="
or = orange uniform"/
rs = pink >

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Auxiliary heater

from November 2004

Notes:

For information concerning

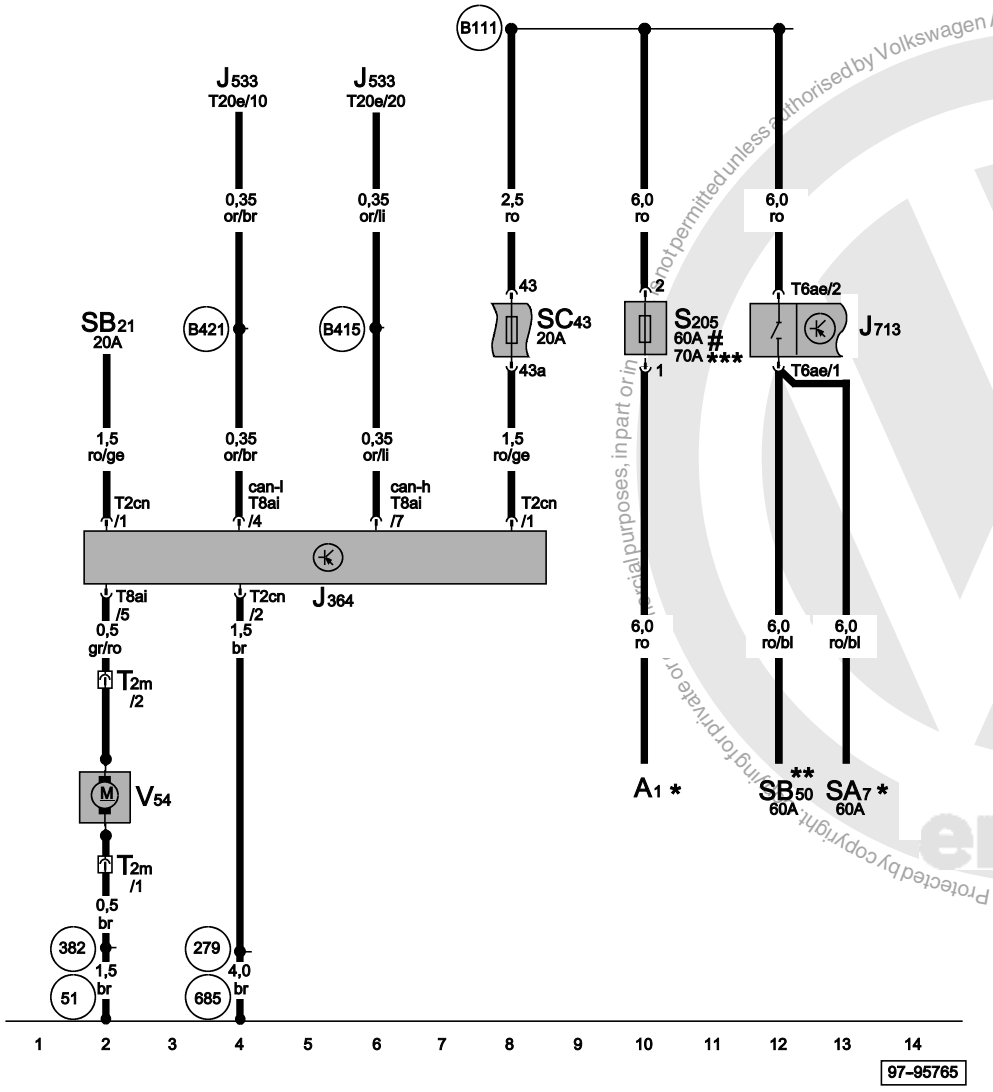
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding



Auxiliary heater control unit, second battery charging circuit relay, metering pump

A1	Second battery
J364	Auxiliary heater control unit
J533	Data bus diagnostic interface
J713	Second battery charging circuit relay
S205	Fuse 2 (30)
SA7	Fuse 7 on fuse holder A
SB21	Fuse 21 on fuse holder B
SB50	Fuse 50 on fuse holder B
SC43	Fuse 43 on fuse holder C
T2cn	2-pin connector
T2m	2-pin connector, black, on fuel tank
T6ae	6-pin connector
T8ai	8-pin connector
T20e	20-pin connector
V54	Metering pump
51	Earth point, on right in luggage compartment
279	Earth connection 5, in interior wiring harness
382	Earth connection 17, in main wiring harness
685	Earth point 1, on front of right longitudinal member
B111	Positive connection 1 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	only models with 2 battery
**	only models with rear battery
***	only saloon models
#	only Variant

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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CAN bus network

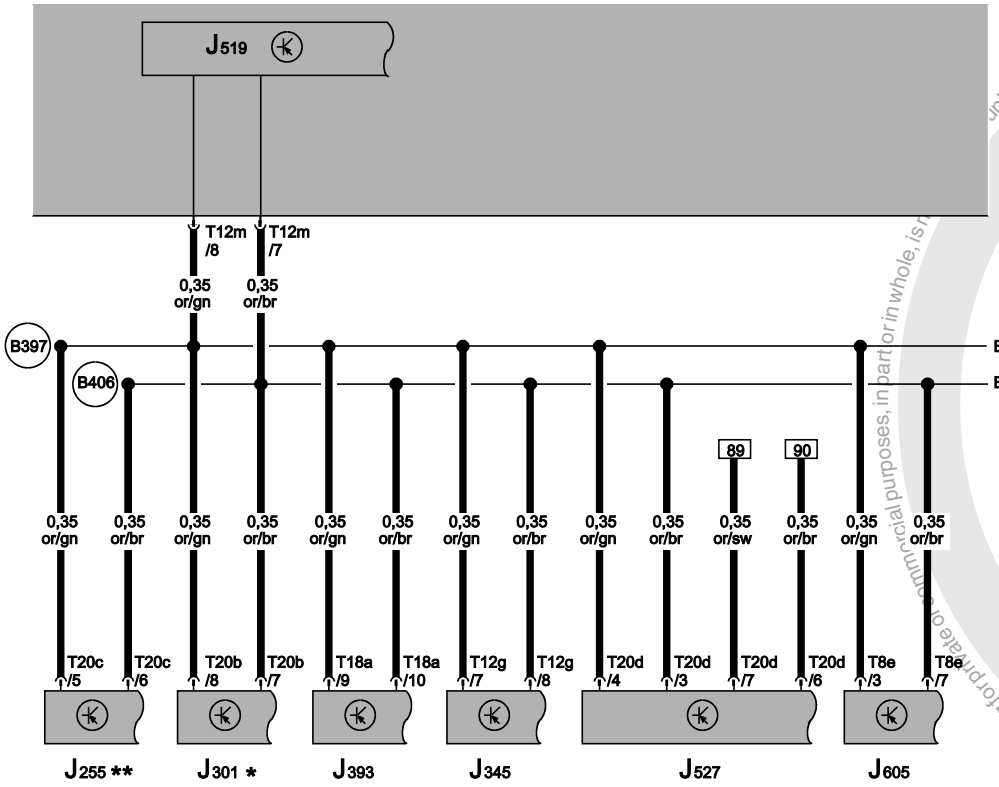
⇒ **Drive train, convenience, infotainment and diagnosis**
from November 2004

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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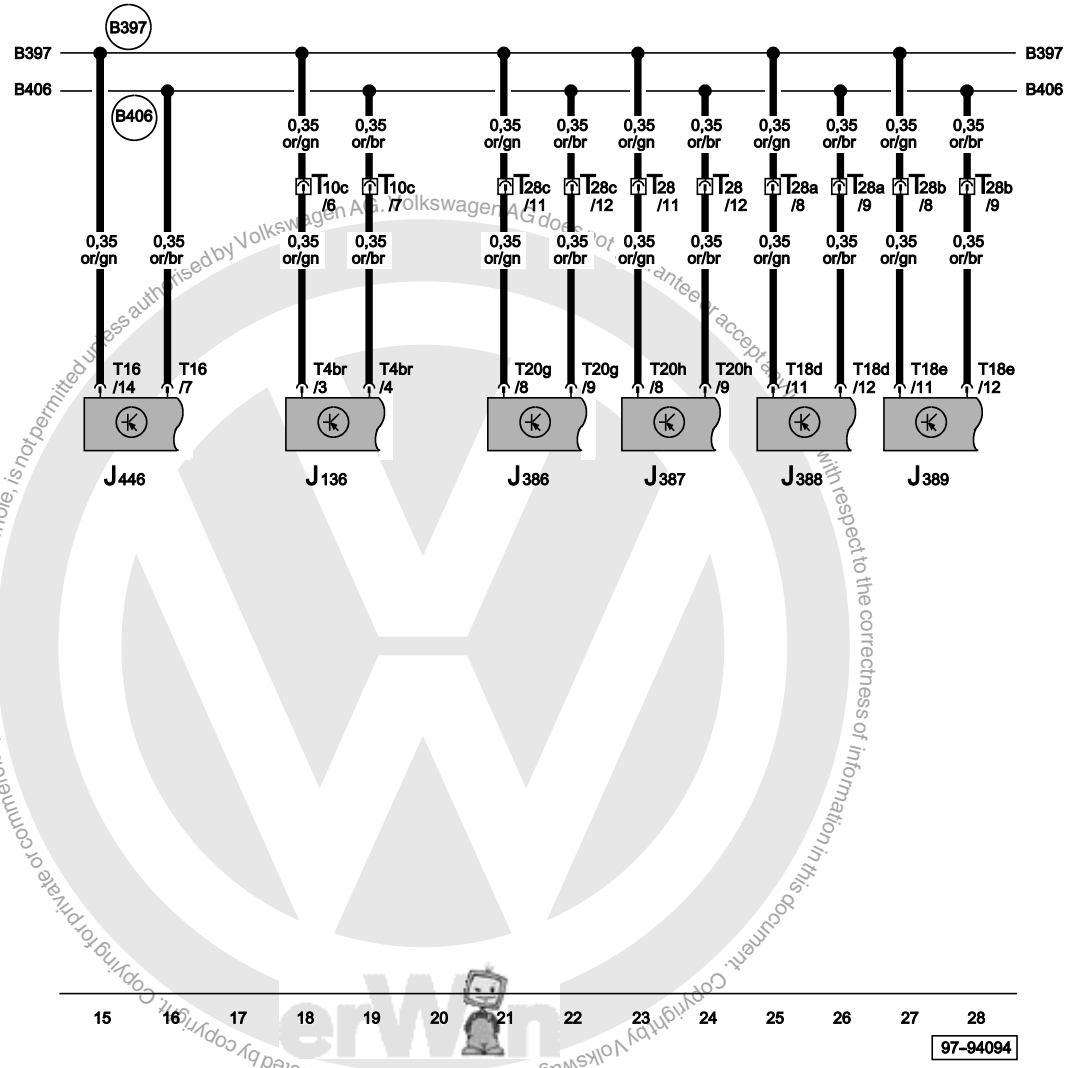


Onboard supply control unit, Climatronic control unit, air conditioning system control unit, trailer detector control unit

J255	Climatronic control unit
J301	Air conditioning system control unit
J345	Trailer detector control unit
J393	Convenience system central control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J605	Rear lid control unit
T8e	8-pin connector
T12g	12-pin connector, coupling point trailer connection
T12m	12-pin connector, black
T18a	18-pin connector
T20b	20-pin connector
T20c	20-pin connector
T20d	20-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	only models with air conditioning system
**	only models with Climatronic

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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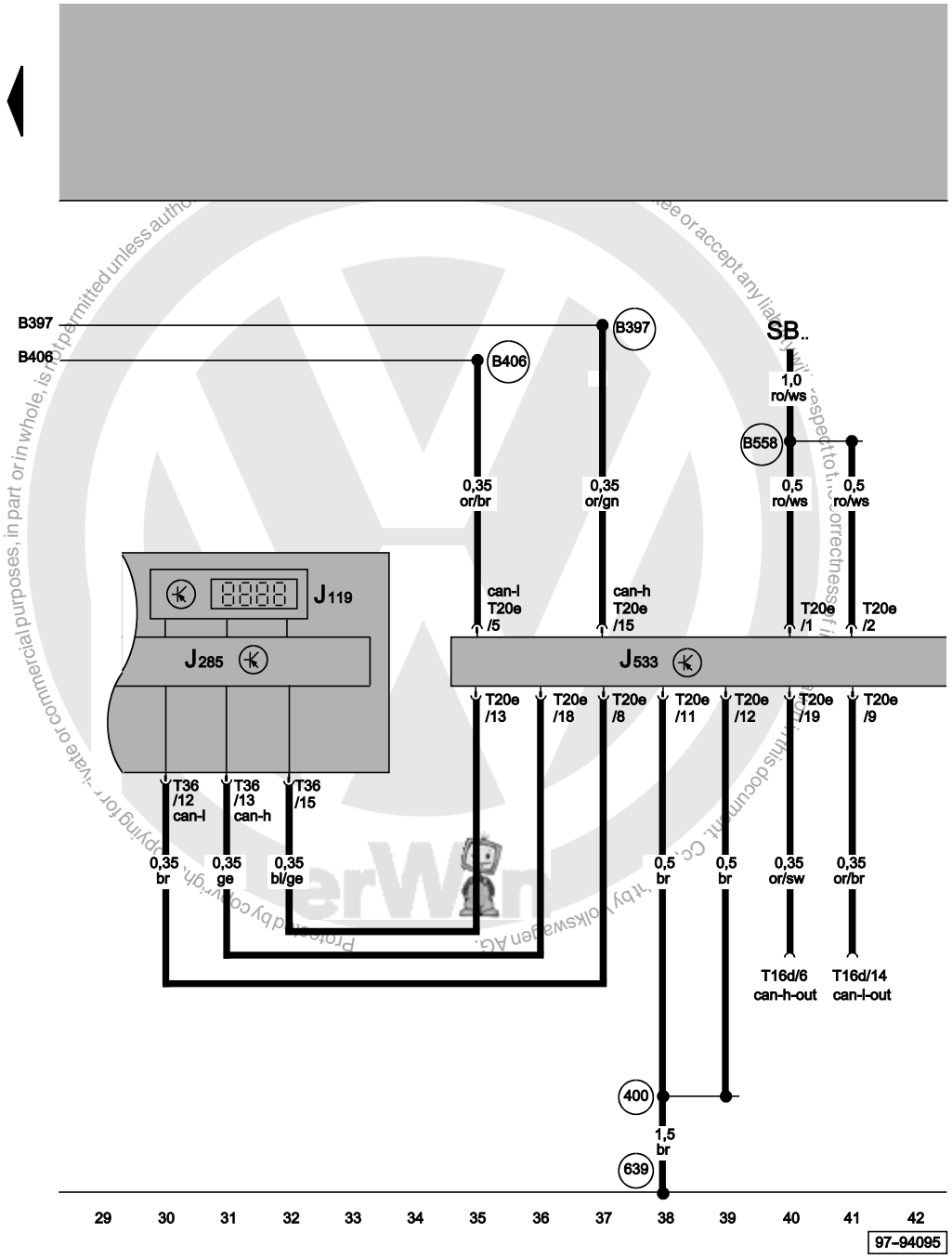


Front passenger door control unit, driver door control unit, rear left and rear right door control unit, parking aid control unit

J136	Seat and steering column adjustment control unit with memory function
J386	Driver side door control unit
J387	Front passenger door control unit
J388	Rear left door control unit
J389	Rear right door control unit
J446	Parking aid control unit
T4br	4-pin connector, black
T10c	10-pin connector, coupling point driver side, under the seat
T16	16-pin connector, brown
T18e	18-pin connector
T18d	18-pin connector
T20g	20-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
T28c	28-pin connector, coupling point, left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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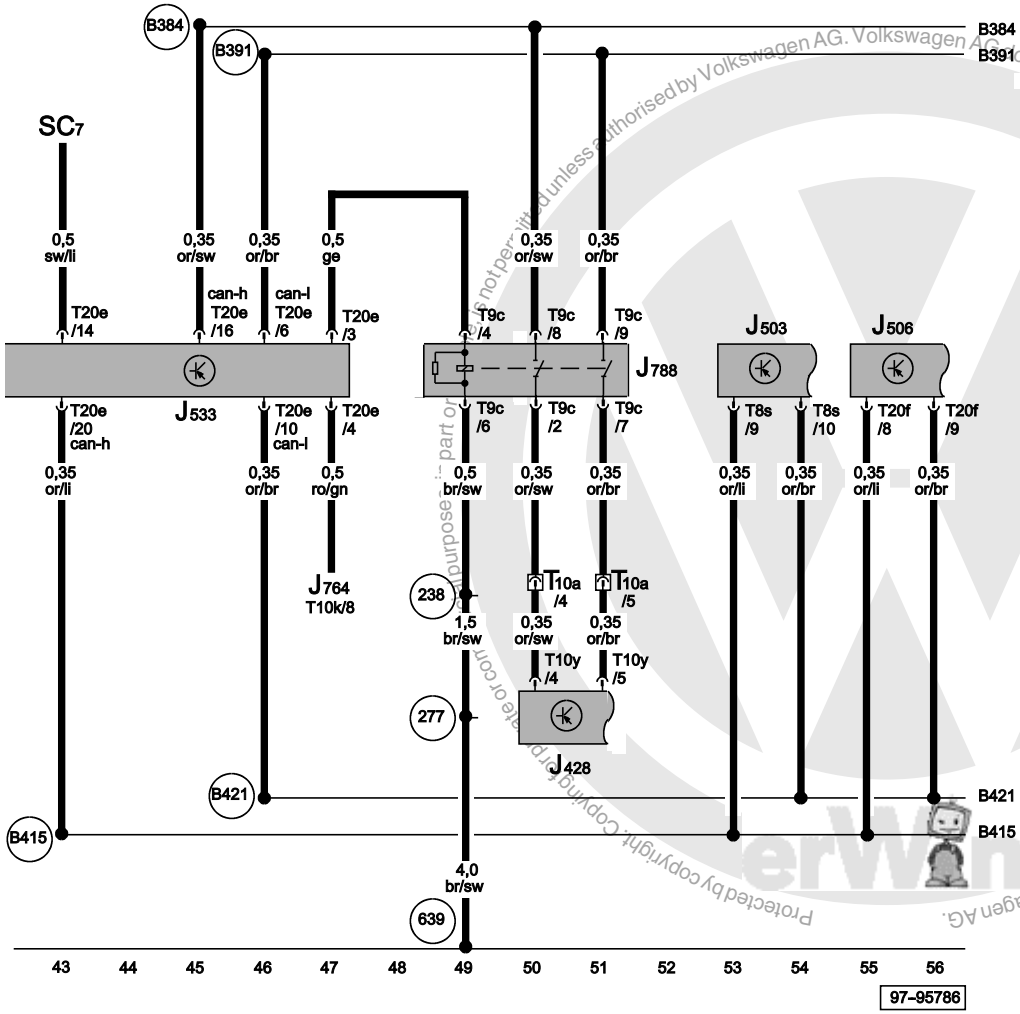


Dash panel insert, multifunction display, data bus diagnostic interface, self-diagnosis connection

J119	Multifunction display
J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
SB	Fuse holder B *
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T36	36-pin connector
400	Earth connection 35, in main wiring harness
639	Earth point, left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B558	Positive connection 22 (30a), in main wiring harness
*	Fuse location depends on equipment, see fitting locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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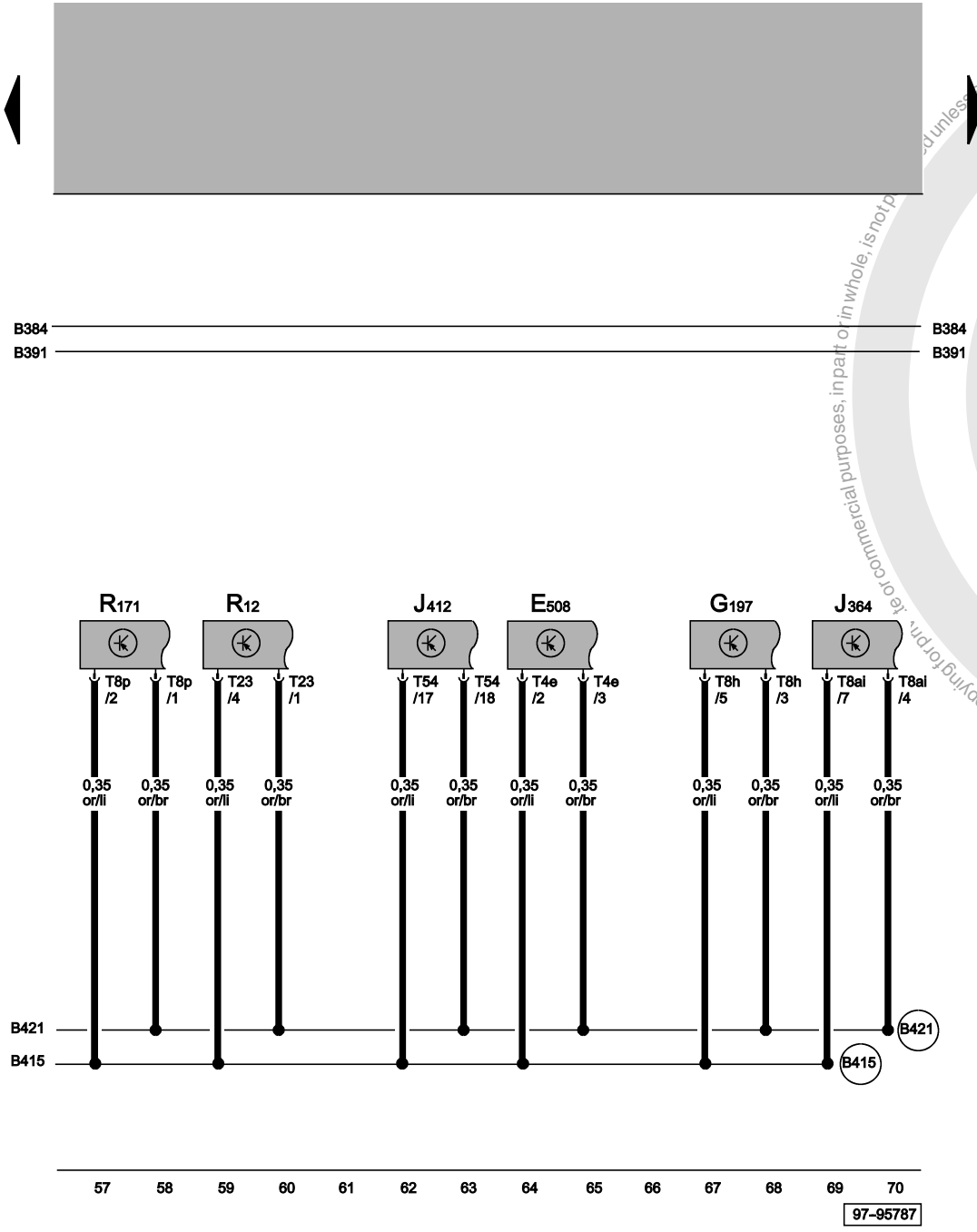


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Data bus diagnostic interface, control unit with display for radio and navigation, adaptive cruise control unit, electronic steering column lock control unit

J428	Adaptive cruise control unit
J503	Control unit with display for radio and navigation system
J506	Control unit with display for TV, radio navigation
J533	Data bus diagnostic interface
J764	Electronic steering column lock control unit
J788	Drive train CAN bus isolation relay
SC7	Fuse 7 on fuse holder C
T8s	8-pin connector, black
T9c	9-pin connector
T10a	10-pin connector
T10k	10-pin connector
T10y	10-pin connector
T20e	20-pin connector
T20f	20-pin connector
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
639	Earth point, left A-pillar
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

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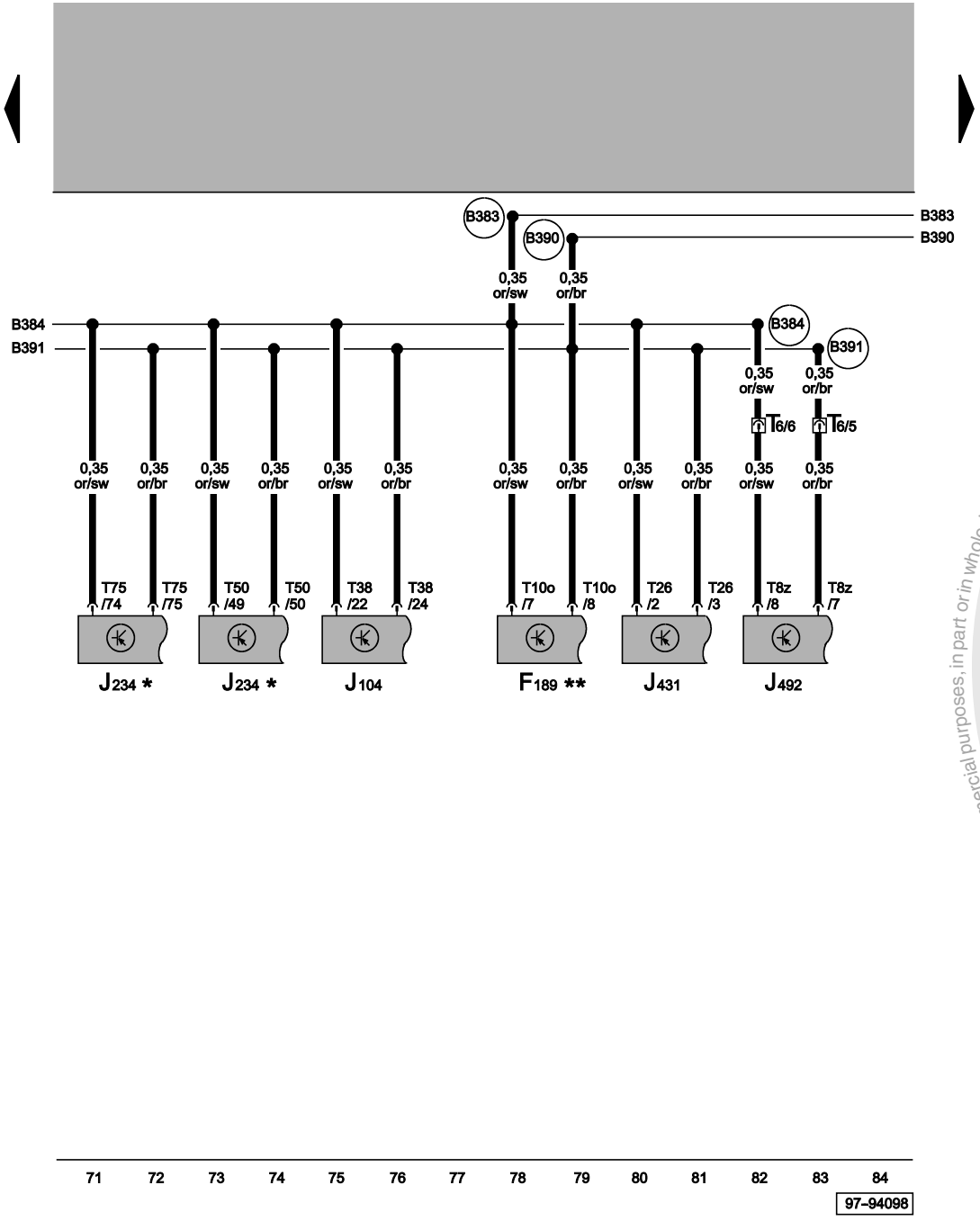


Magnetic field sender for compass, mobile telephone operating electronics control unit, digital TV tuner, amplifier, auxiliary heater control unit, operating unit for preparation for mobile telephone

E508	Operating unit for preparation for mobile telephone
G197	Magnetic field sender for compass
J412	Mobile telephone operating electronics control unit
J364	Auxiliary heater control unit
R12	Amplifier
R171	Digital TV tuner
T4e	4-pin connector
T8ai	8-pin connector
T8h	8-pin connector
T8p	8-pin connector
T23	23-pin connector
T54	54-pin connector
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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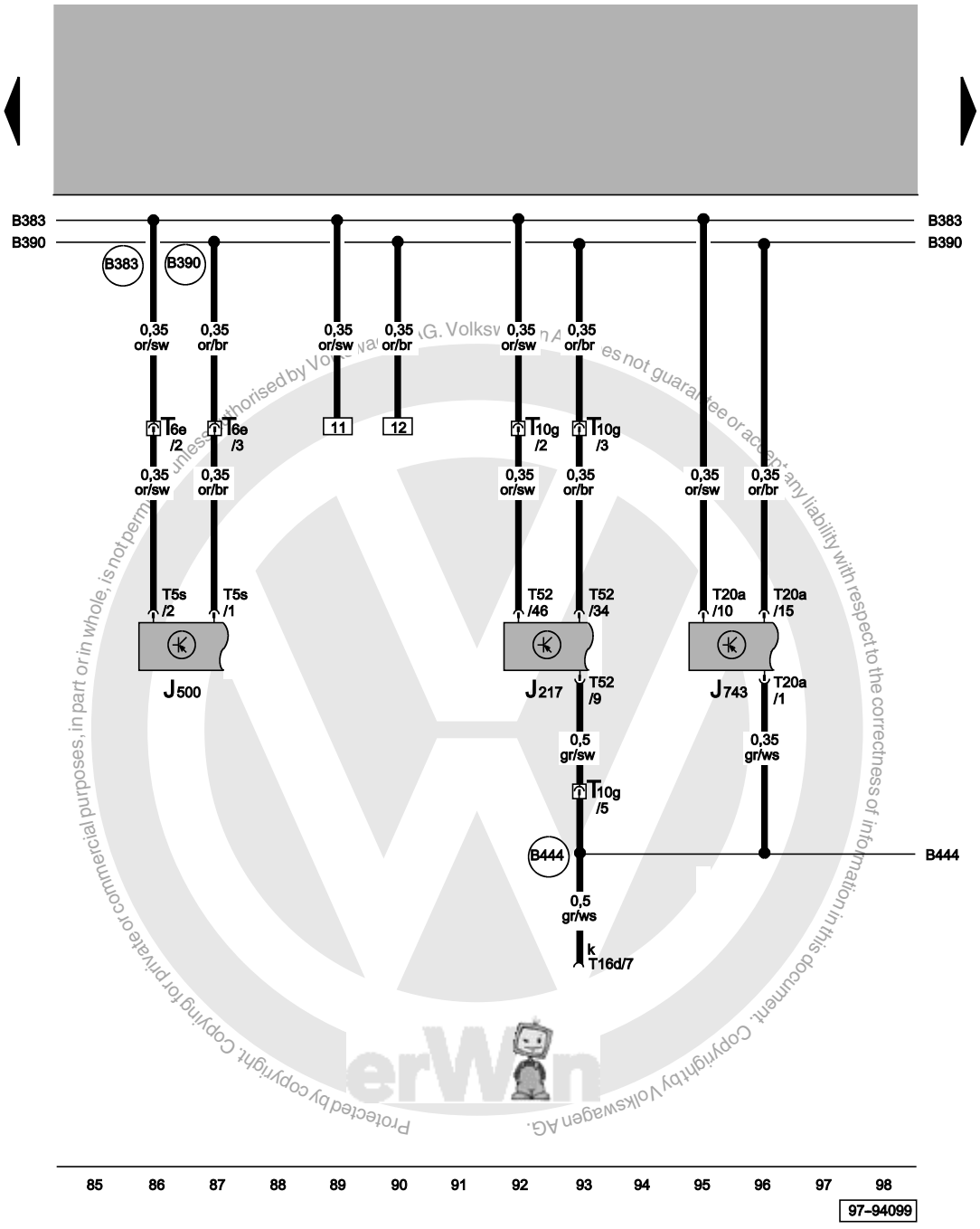


Tiptronic switch, ABS control unit, airbag control unit, headlight range control, control unit

F189	Tiptronic switch
J104	ABS control unit
J234	Airbag control unit
J431	Headlight range control, control unit
J492	Four-wheel drive control unit
T6	6-pin connector
T8z	8-pin connector
T10o	10-pin connector
T26	26-pin connector
T38	38-pin connector
T50	50-pin connector
T75	75-pin connector
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
*	depends on equipment
**	models with automatic gearbox only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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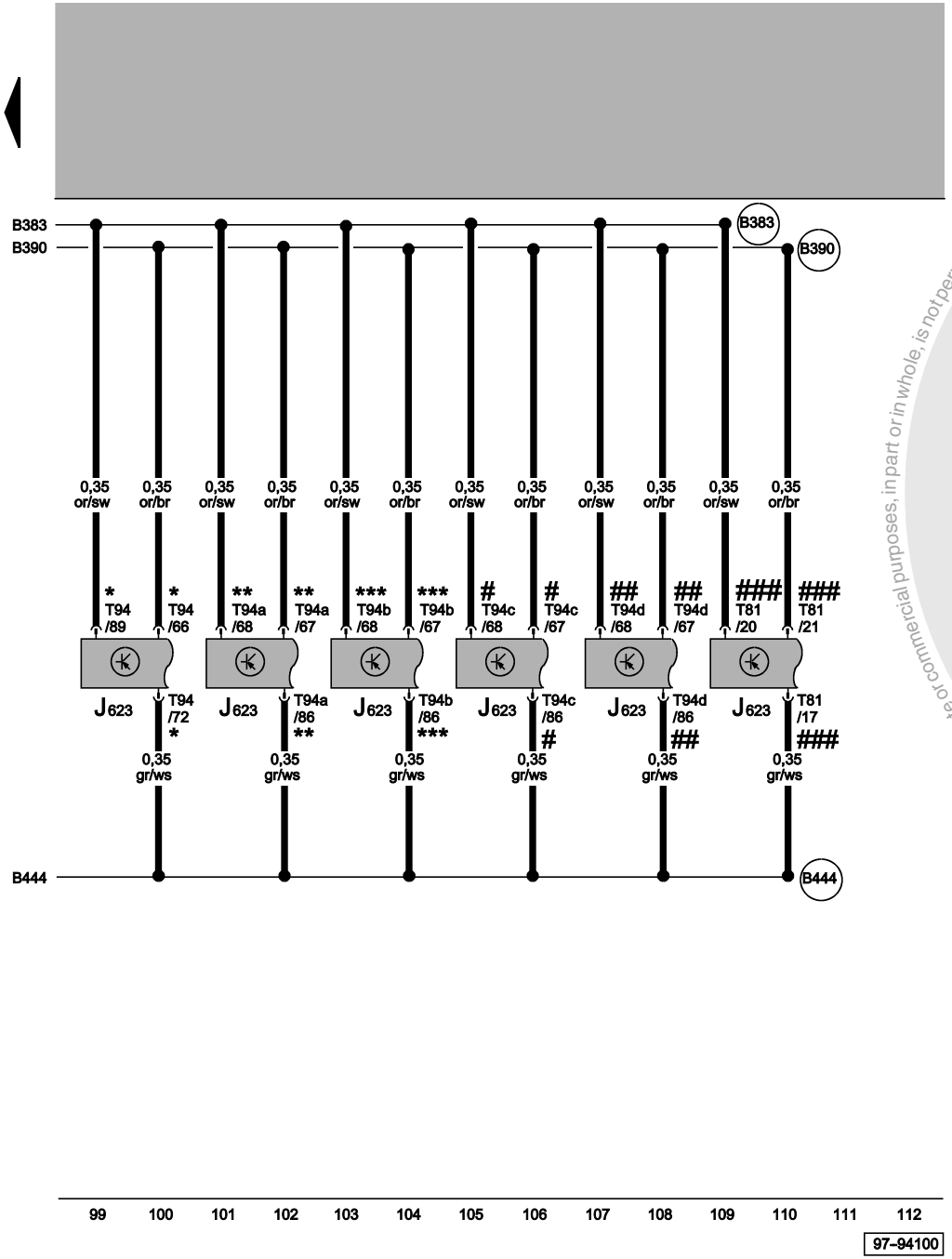


Automatic gearbox control unit, power steering control unit, mechatronics for direct shift gearbox, self-diagnosis connection

J217	Automatic gearbox control unit
J500	Power steering control unit
J743	Mechatronics for direct shift gearbox
T5s	5-pin connector
T6e	6-pin connector
T10g	10-pin connector, coupling point gearbox prewiring
T16d	16-pin connector, self-diagnosis connection
T20a	20-pin connector
T52	52-pin connector
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Engine control unit

J623	Engine control unit
T81	81-pin connector
T94	94-pin connector
T94a	94-pin connector
T94b	94-pin connector
T94c	94-pin connector
T94d	94-pin connector
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	only models with diesel engine
**	only models with engine codes BLX, BLY, BLR
***	only models with engine codes BLF, BLP
#	only models with engine code AXX, BPY
##	only models with engine codes AXZ, BLV
###	only models with engine code BSE, BSF

ws	=	white
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bl	=	blue
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Universal preparation for mobile telephone - Premium

⇒ **Bluetooth**

From April 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

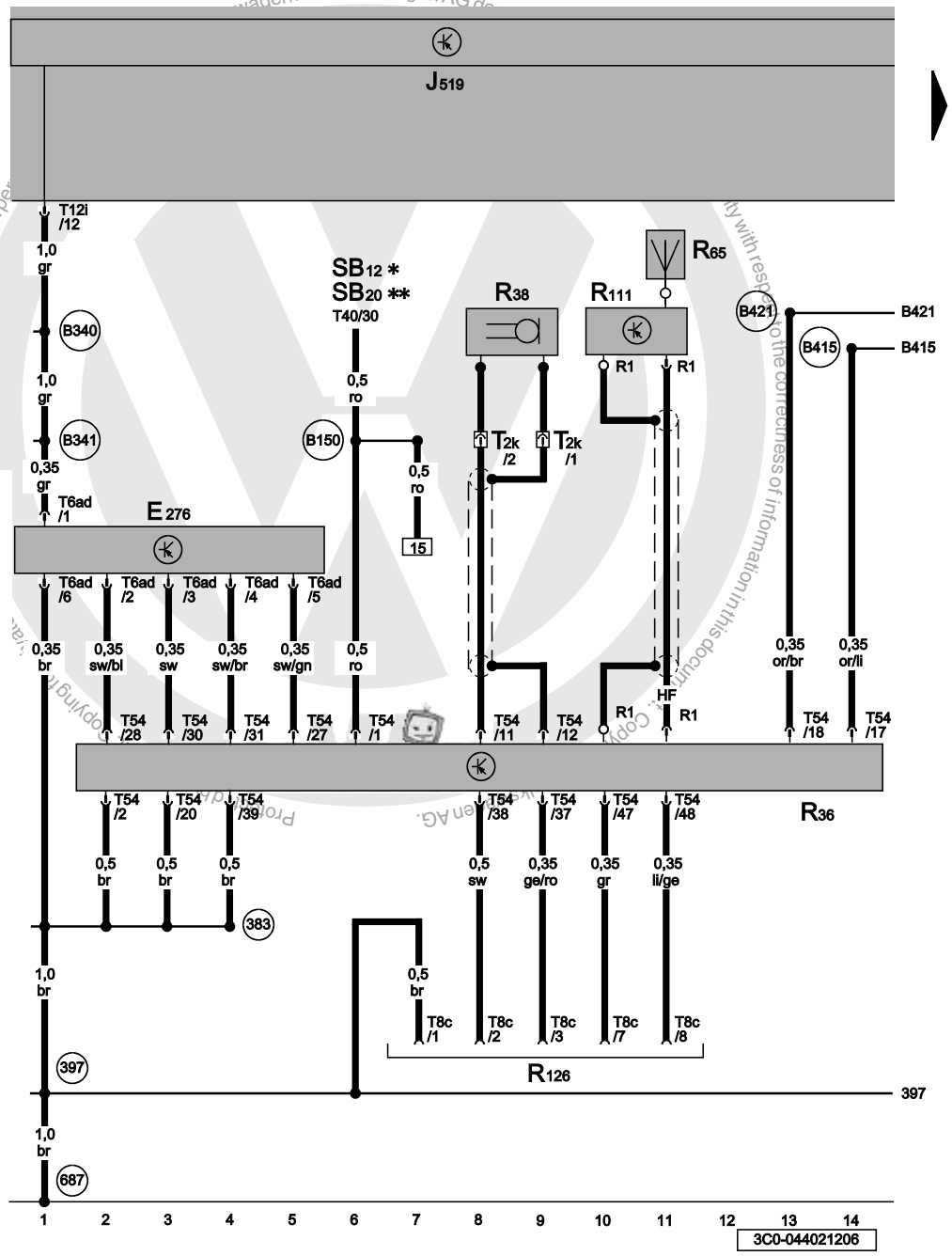
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

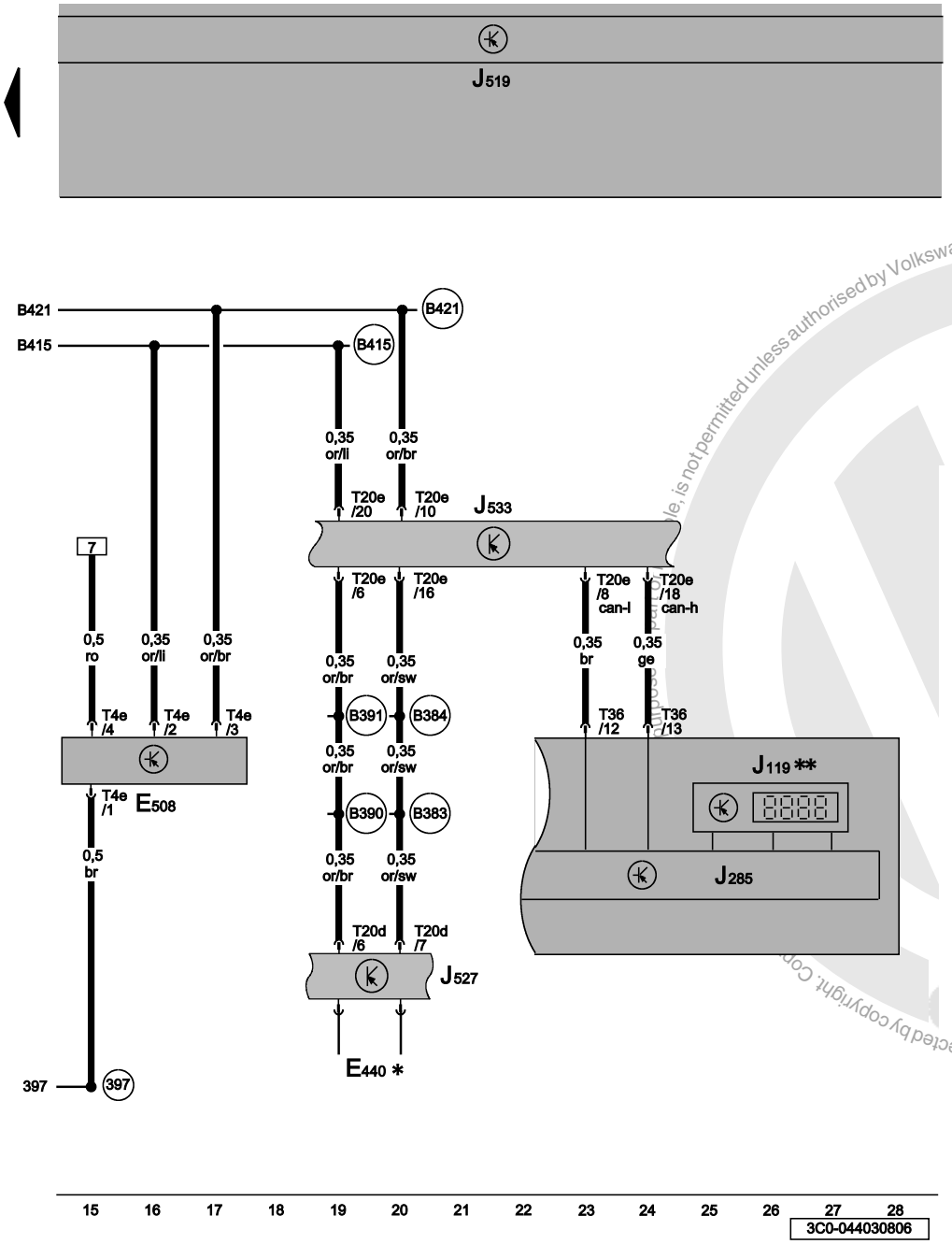
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ws = white
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gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Telephone transmitter and receiver unit, emergency assistance call button, telephone microphone, telephone aerial

J519	Onboard supply control unit
E276	Emergency assistance call button
R1	Aerial connection
R36	Telephone transmitter and receiver unit
R38	Telephone microphone
R65	Telephone aerial
R111	Aerial amplifier 2
R126	Telephone bracket
SB12	Fuse 12 on fuse holder B
SB20	Fuse 20 on fuse holder B
T2k	2-pin connector
T6ad	6-pin connector
T8c	8-pin connector
T12i	12-pin connector, black
T40	40-pin connector, beneath E-box, in engine compartment
T54	54-pin connector
397	Earth connection 32, in main wiring harness
383	Earth connection 18, in main wiring harness
687	Earth point 1, middle tunnel
B150	Positive connection 2 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Models with E-box low only
**	Models with E-box high only



Data bus diagnostic interface, operating unit for preparation for mobile telephone, multifunction display, multifunction buttons on left in steering wheel

E440	Multifunction buttons on left in steering wheel
E508	Operating unit for preparation for mobile telephone
J119	Multifunction display
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T4e	4-pin connector
T20d	20-pin connector
T20e	20-pin connector
T36	36-pin connector
397	Earth connection 32, in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	only models with multifunction display, see CFD multifunction display
**	only models with multifunction display

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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230V socket, 115V socket (Canada/Mexico/USA)

From April 2005

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

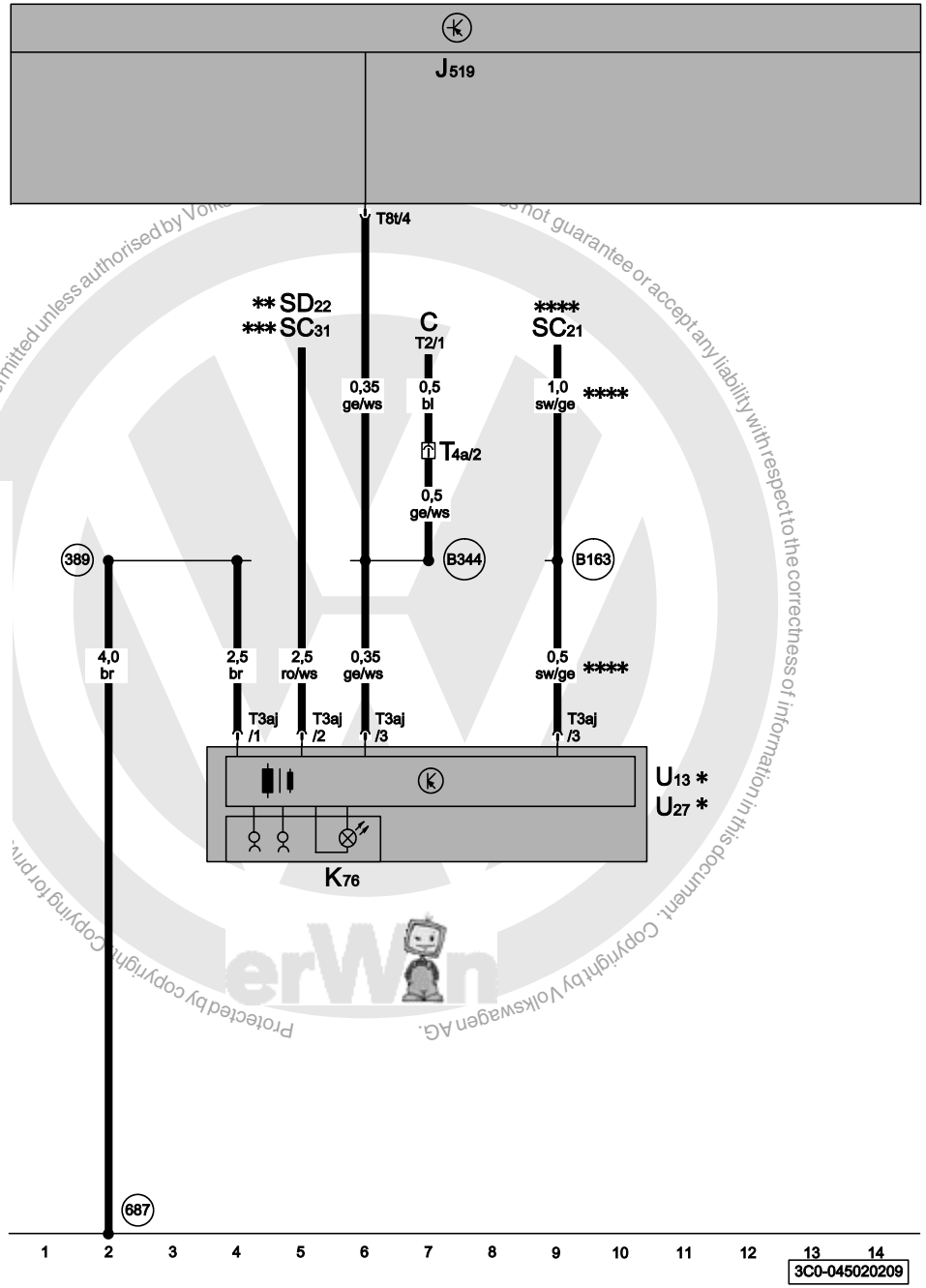
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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AC/DC transformer with electric socket, electric socket warning lamp, fuses, onboard supply unit

C	Alternator
J519	Onboard supply control unit
K76	Electric socket warning lamp
SC21	Fuse 21 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD22	Fuse 22 on fuse holder D
T2	2-pin connector
T3aj	3-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector, black
U13	AC/DC converter with socket, 12 V - 230 V
U27	AC/DC converter with socket, 12 V - 230 V
(389)	Earth connection 24, in main wiring harness
(687)	Earth point 1, on centre tunnel
(B163)	Positive connection 1 (15), in interior wiring harness
(B344)	Connection 1 (61), in main wiring harness
*	Depends on equipment
**	Applicable to April 2008
***	Applicable from May 2008
****	Only models with start/stop system

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Dual clutch gearbox 02E

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Notes:

For information concerning

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- Multi-pin connectors
- Control units and relays
- Earth connections

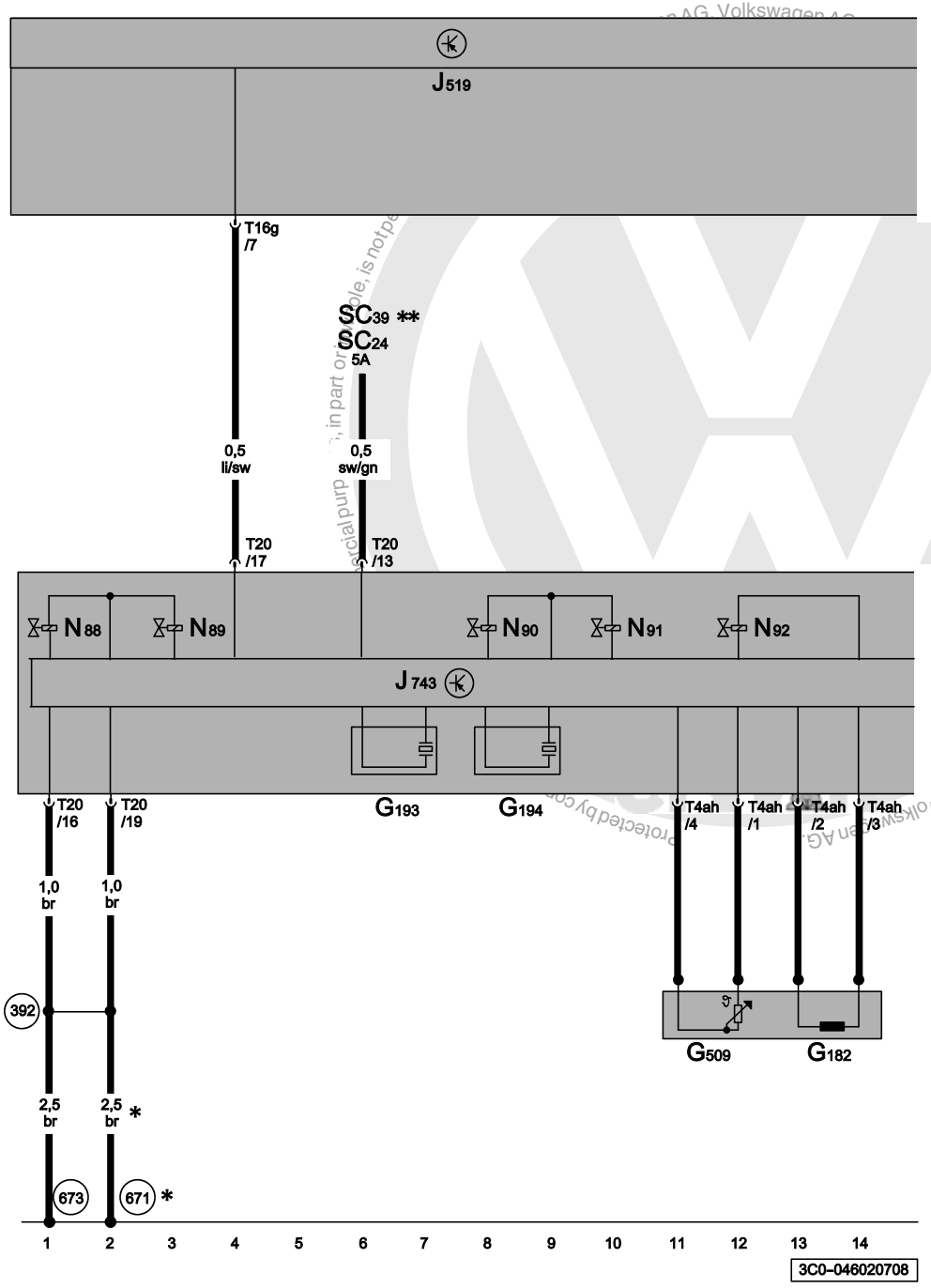
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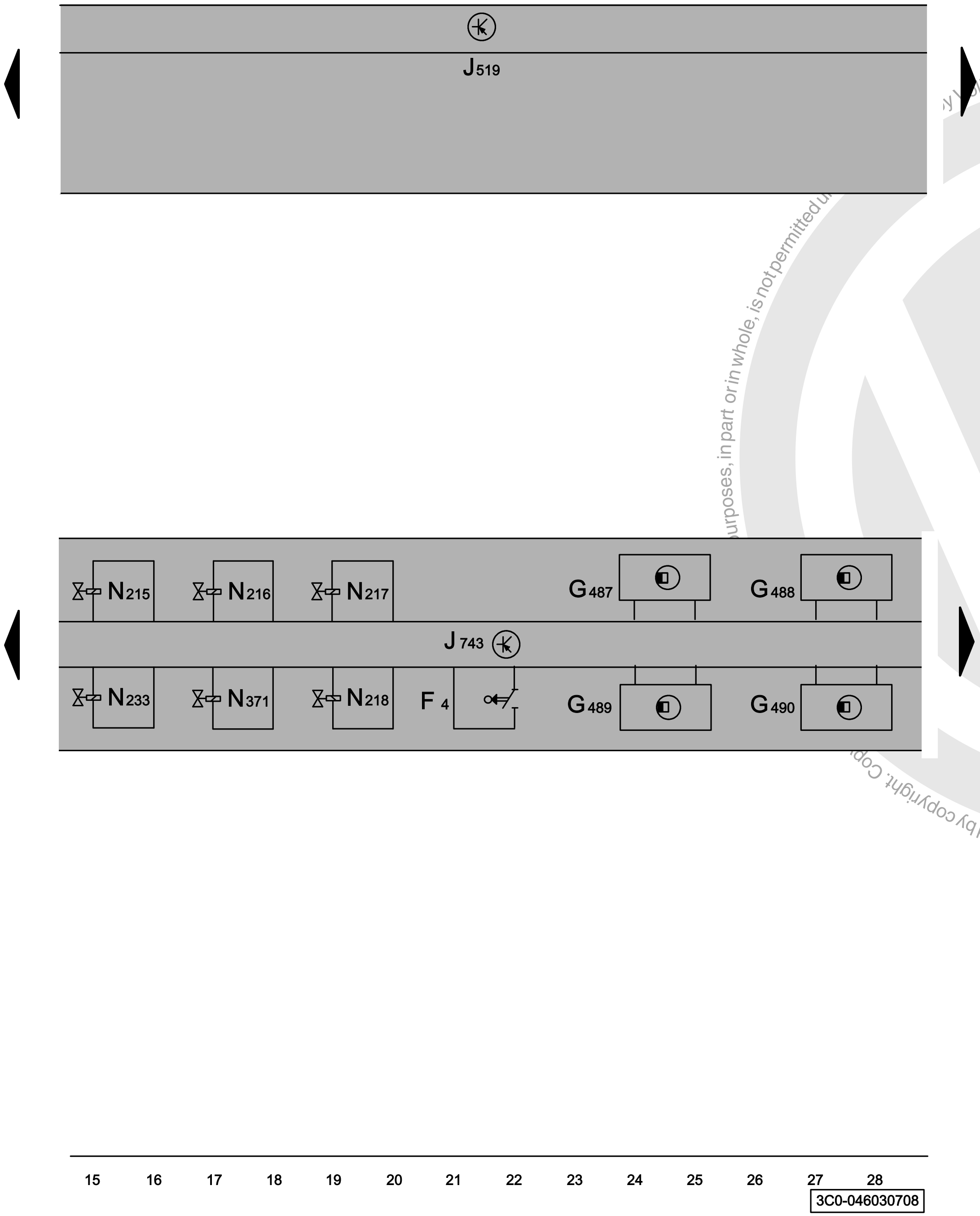


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Mechatronic unit for dual clutch gearbox, gearbox input speed sender, clutch temperature sender

G182	Gearbox input speed sender
G193	Automatic gearbox hydraulic pressure sender 1
G194	Automatic gearbox hydraulic pressure sender 2
G509	Clutch temperature sender
J519	Onboard supply control unit
J743	Mechatronics for dual clutch gearbox
N88	Solenoid valve 1
N89	Solenoid valve 2
N90	Solenoid valve 3
N91	Solenoid valve 4
N92	Solenoid valve 5
SC24	Fuse 24 on fuse holder C
SC39	Fuse 39 on fuse holder C
T4ah	4-pin connector
T16g	16-pin connector, black
T20	20-pin connector
392	Earth connection 27, in main wiring harness
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
*	Applicable from November 2006 to April 2008
**	Applicable from May 2008

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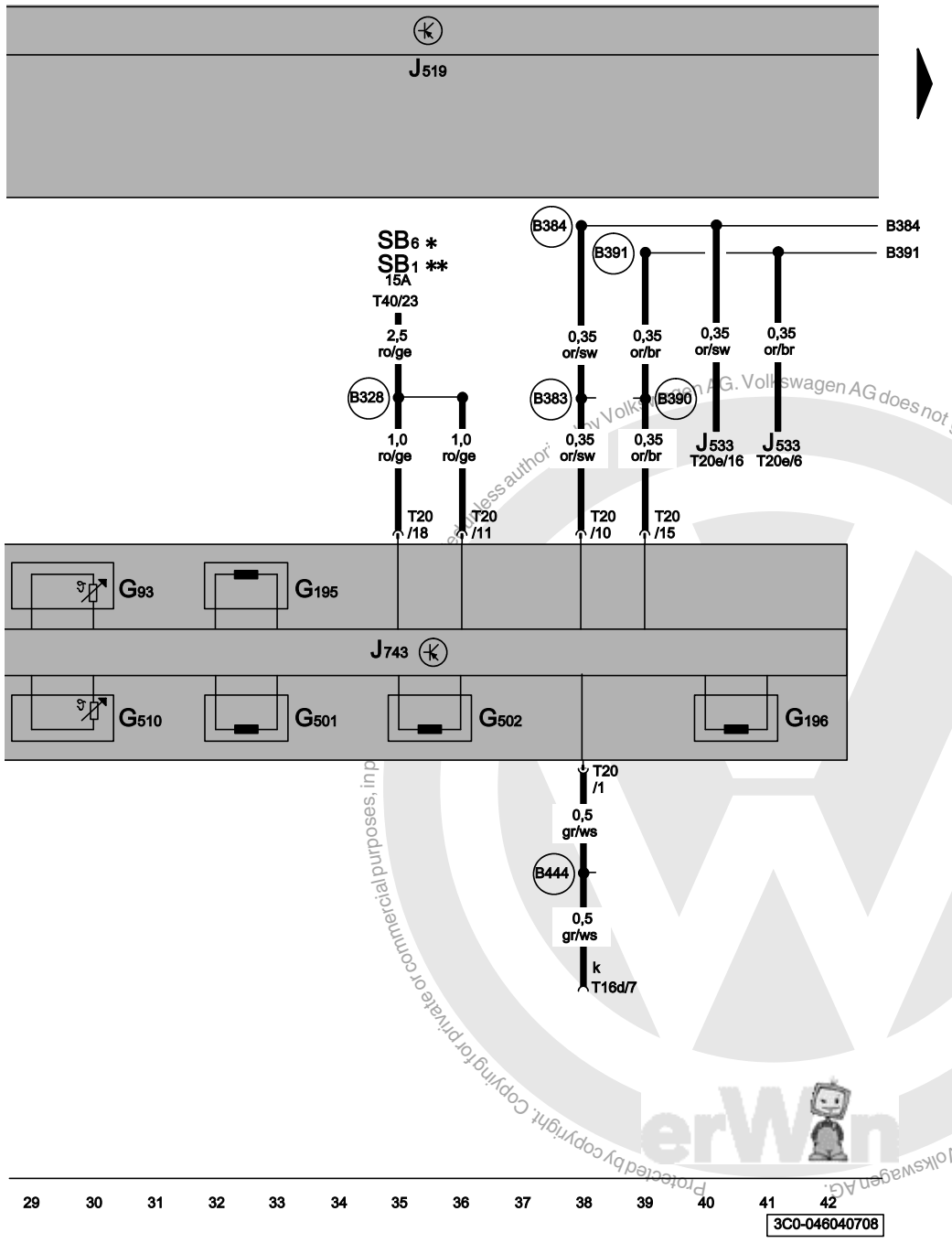


Mechatronic unit for dual clutch gearbox, reversing light switch, gear selector movement senders 1-4, automatic gearbox pressure regulating valves 1-6

F4	Reversing light switch
G487	Gear selector movement sensor 1
G488	Gear selector movement sensor 2
G489	Gear selector movement sensor 3
G490	Gear selector movement sensor 4
J519	Onboard supply control unit
J743	Mechatronics for dual clutch gearbox
N215	Automatic gearbox pressure regulating valve 1
N216	Automatic gearbox pressure regulating valve 2
N217	Automatic gearbox pressure regulating valve 3
N218	Automatic gearbox pressure regulating valve 4
N233	Automatic gearbox pressure regulating valve 5
N371	Automatic gearbox pressure regulating valve 6

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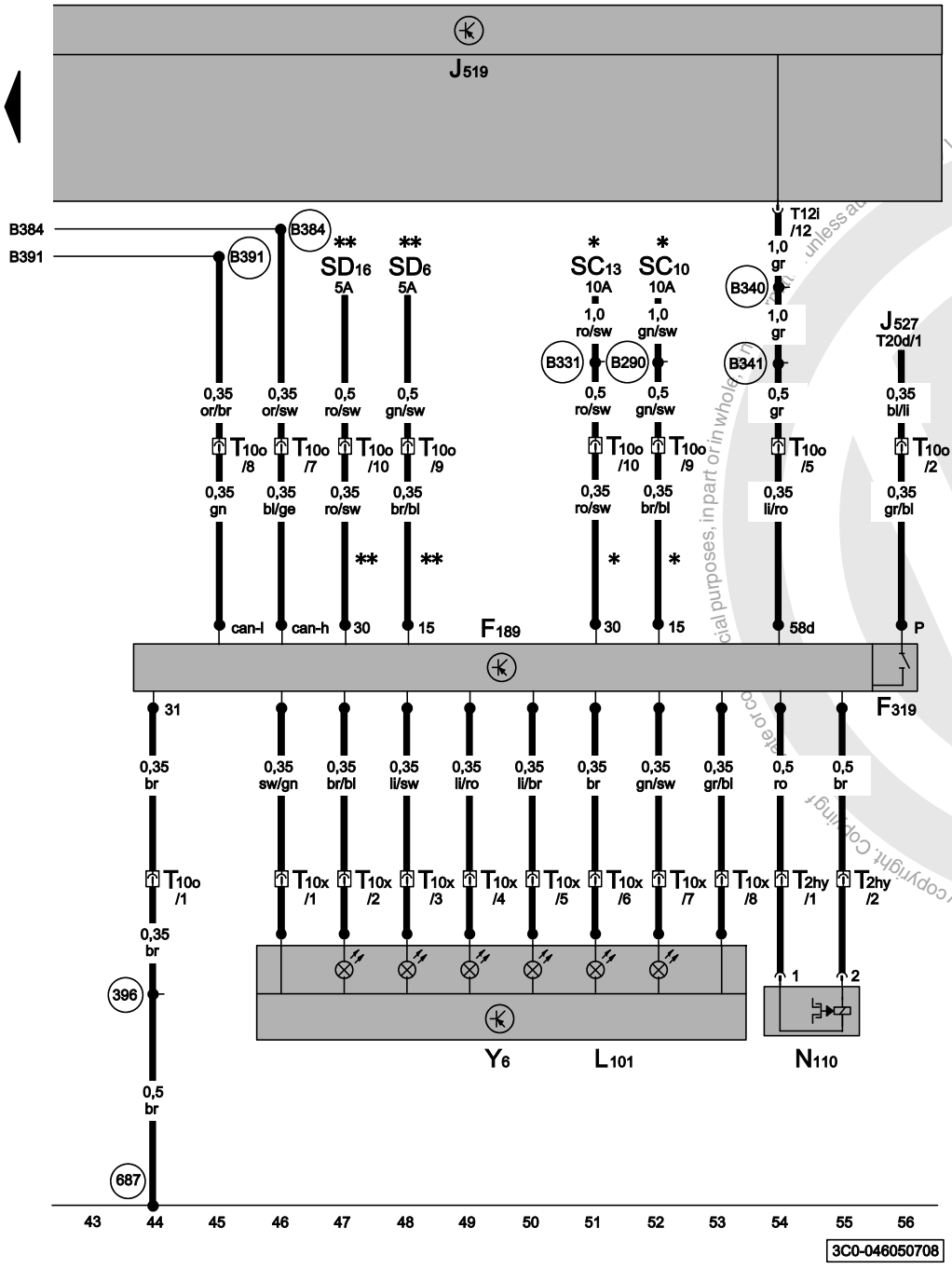


Mechatronic unit for dual clutch gearbox, gearbox oil temperature sender, temperature sender in control unit, self-diagnosis connection, data bus diagnostic interface

G93	Gearbox oil temperature sender
G195	Gearbox output speed sender
G196	Gearbox output speed sender 2
G501	Input shaft speed sender 1
G502	Input shaft speed sender 2
G510	Temperature sender in control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J743	Mechatronics for dual clutch gearbox
SB1	Fuse 1 on fuse holder B
SB6	Fuse 6 on fuse holder B
T16d	16-pin connector, self-diagnosis connection
T20	20-pin connector
T20e	20-pin connector
T40	40-pin connector
B328	Connection 14 (30a), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high

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Tiptronic switch, selector lever lock solenoid, selector lever position display

F189	Tiptronic switch
F319	Selector lever locked in position P switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
L101	Selector lever display illumination bulb
N110	Selector lever lock solenoid
SC10	Fuse 10 on fuse holder C
SC13	Fuse 13 on fuse holder C
SD6	Fuse 6 on fuse holder D
SD16	Fuse 16 on fuse holder D
T2hy	2-pin connector
T10o	10-pin connector, on gearbox
T10x	10-pin connector, black, near selector lever
T12i	12-pin connector
T20d	20-pin connector
Y6	Selector lever position display
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B290	Connection 14 (15a), in main wiring harness
B331	Connection 17 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Applicable from May 2008
**	Applicable to April 2008

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Taxi equipment

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Notes:

For information concerning

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- Multi-pin connectors
- Control units and relays
- Earth points

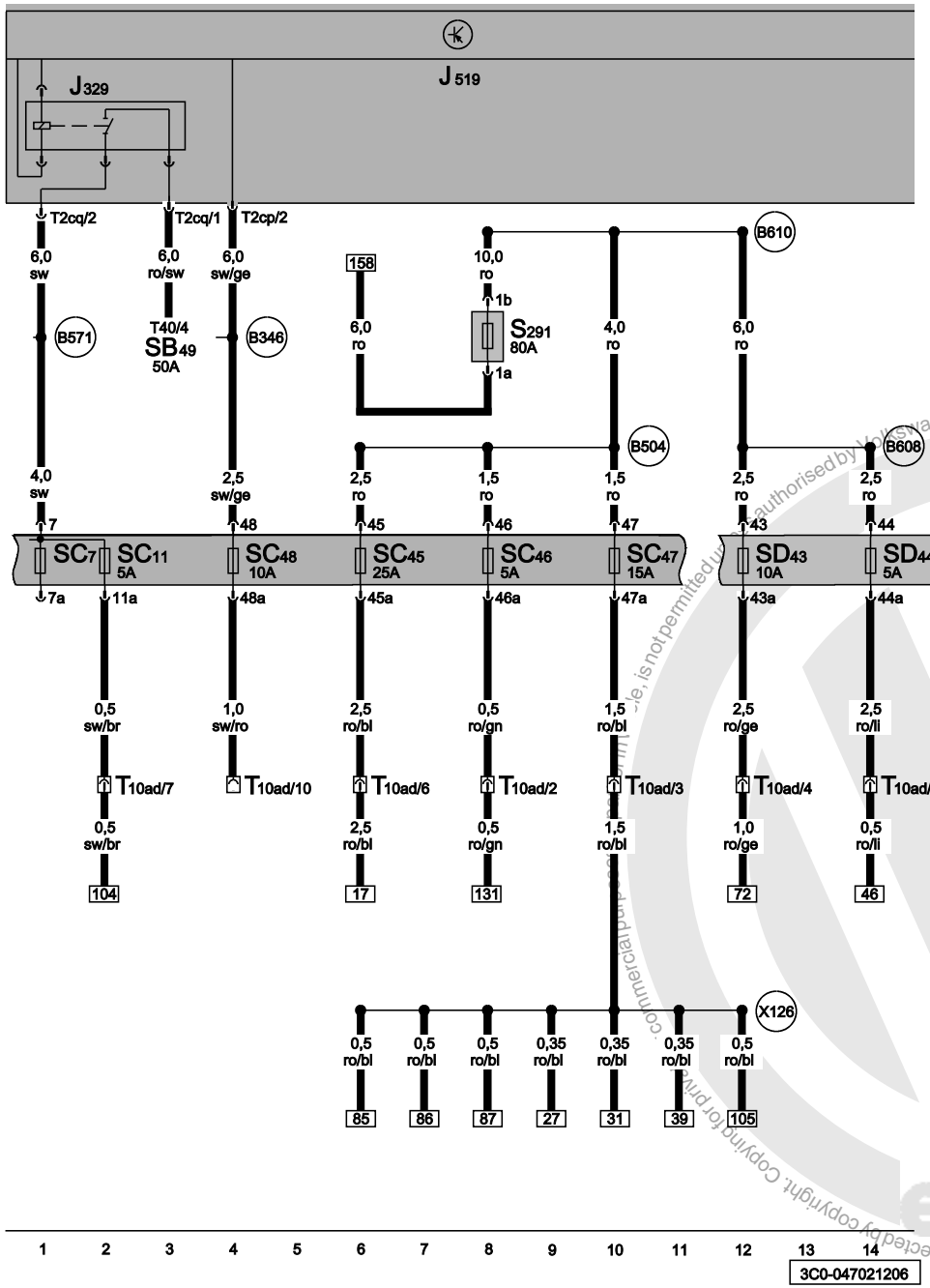
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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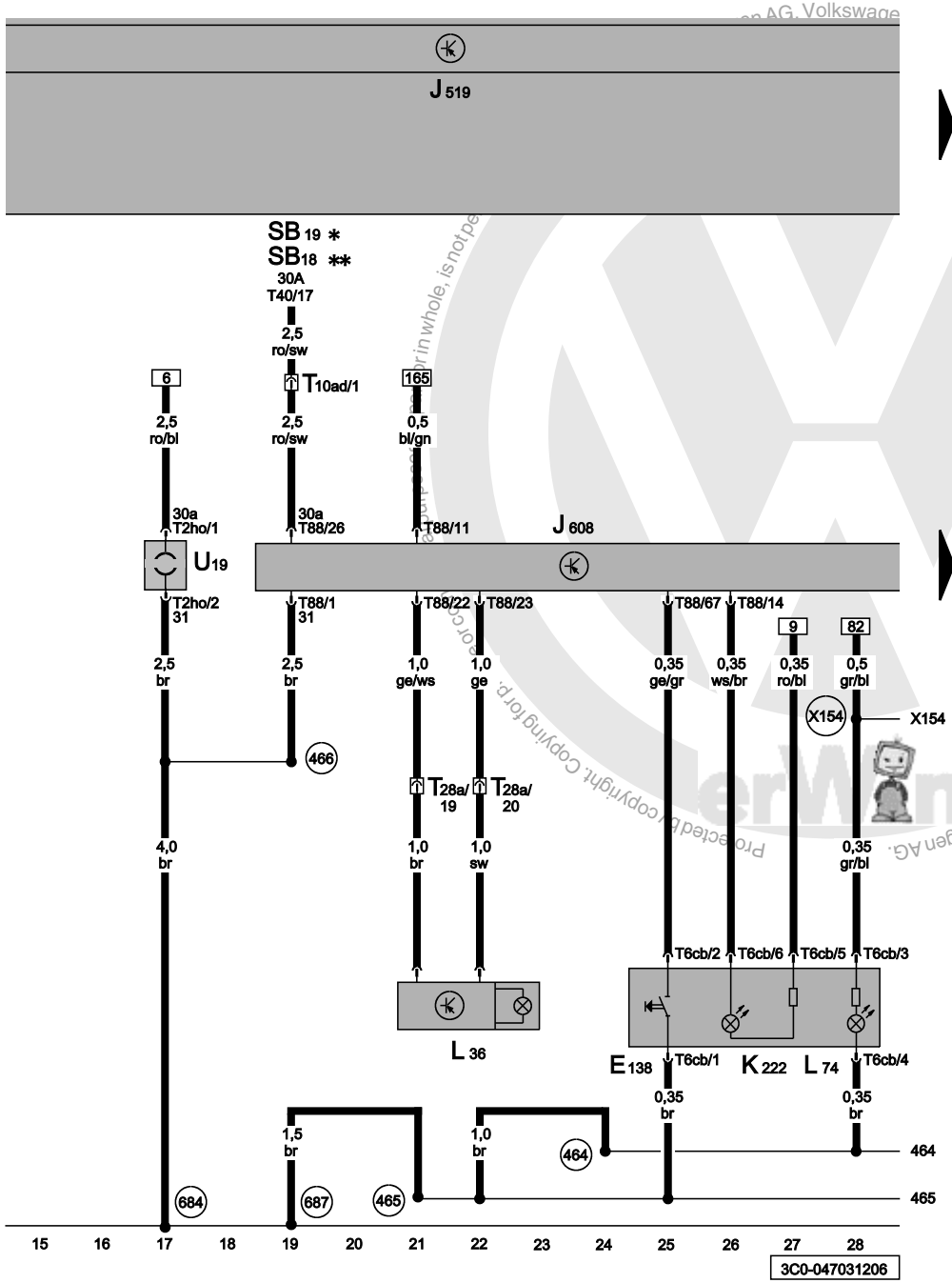


Fuses, terminal 15 voltage supply relay

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
S291	Special vehicle fuse 1
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
SC11	Fuse 11 on fuse holder C
SC45	Fuse 45 on fuse holder C
SC46	Fuse 46 on fuse holder C
SC47	Fuse 47 on fuse holder C
SC48	Fuse 48 on fuse holder C
SD43	Fuse 43 on fuse holder D
SD44	Fuse 44 on fuse holder D
T2cp	2-pin connector
T2cq	2-pin connector
T10ad	10-pin connector, black, coupling point, left A-pillar
T40	40-pin connector
B346	Connection 1 (75), in main wiring harness
B504	Positive connection 8 (30a), in interior wiring harness
B571	Connection 38, in main wiring harness
B608	Connection 4, in interior wiring harness
B610	Connection 6, in interior wiring harness
X126	Positive connection 2 (30a), in taxi wiring harness

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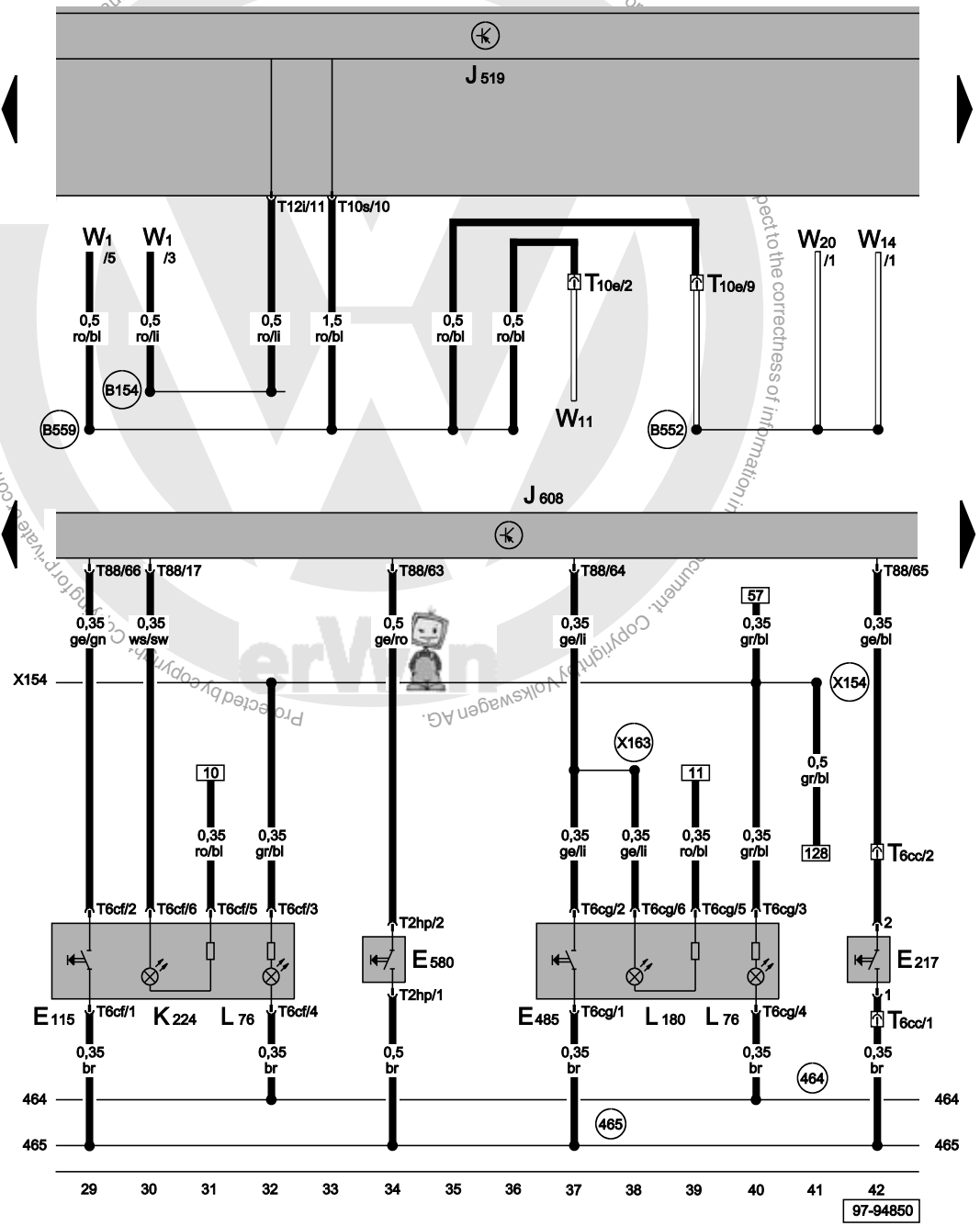


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Special vehicle control unit, taxi sign switch, taxi roof sign light bulb

E138	Taxi sign switch
J519	Onboard supply control unit
J608	Special vehicle control unit
K222	Taxi roof sign warning lamp
L36	Taxi roof sign light bulb
L74	Taxi sign switch illumination bulb
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T2ho	2-pin connector, black, centre console
T6cb	6-pin connector
T10ad	10-pin connector, black, coupling point, left A-pillar
T28a	28-pin connector, coupling point, left B-pillar
T40	40-pin connector
T88	88-pin connector
U19	12 V socket 3
464	Earth connection 3, in taxi wiring harness
465	Earth connection 4, in taxi wiring harness
466	Earth connection 5, in taxi wiring harness
684	Earth point, on front of left side member
687	Earth point 1, on centre tunnel
X154	Connection (58), in taxi wiring harness
*	Only models with E-box Low
**	Only models with E-box High

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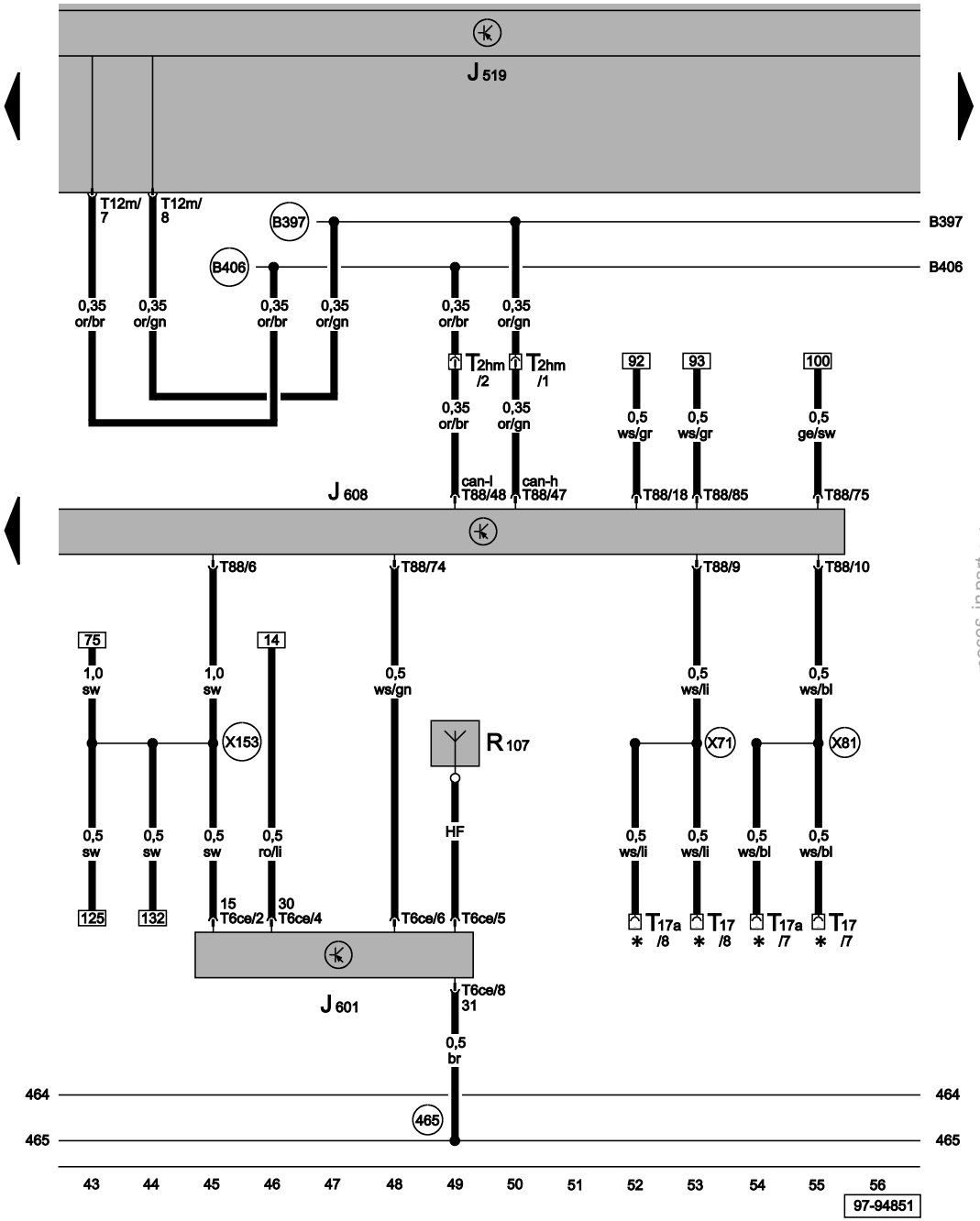
Special vehicle control unit, interior light switch (taxi), taxi alarm buttons

E115	Interior light switch (taxi)
E217	Alarm system off switch
E485	Taxi alarm active button
E580	Passive Taxi alarm button
J519	Onboard supply control unit
J608	Special vehicle control unit
K224	Interior light warning lamp
L76	Button illumination bulb
L180	Alarm button illumination lamp
T2hp	2-pin connector, black, left A-pillar
T6cc	6-pin connector, on left in luggage compartment
T6cf	6-pin connector
T6cg	6-pin connector
T10e	10-pin connector, black, coupling point, roof wiring harness
T10s	10-pin connector, black
T12i	12-pin connector, black
T88	88-pin connector
W1	Front interior light
W11	Rear left reading light
W14	Front passenger side illuminated vanity mirror
W20	Driver side illuminated vanity mirror
464	Earth connection 3, in taxi wiring harness
465	Earth connection 4, in taxi wiring harness
B154	Connection 1 (DCt), in interior wiring harness
B552	Positive connection 2, in roof wiring harness
B559	Connection 1 (30g), in main wiring harness
X154	Connection (58), in taxi wiring harness
X163	Connection 13, in taxi wiring harness
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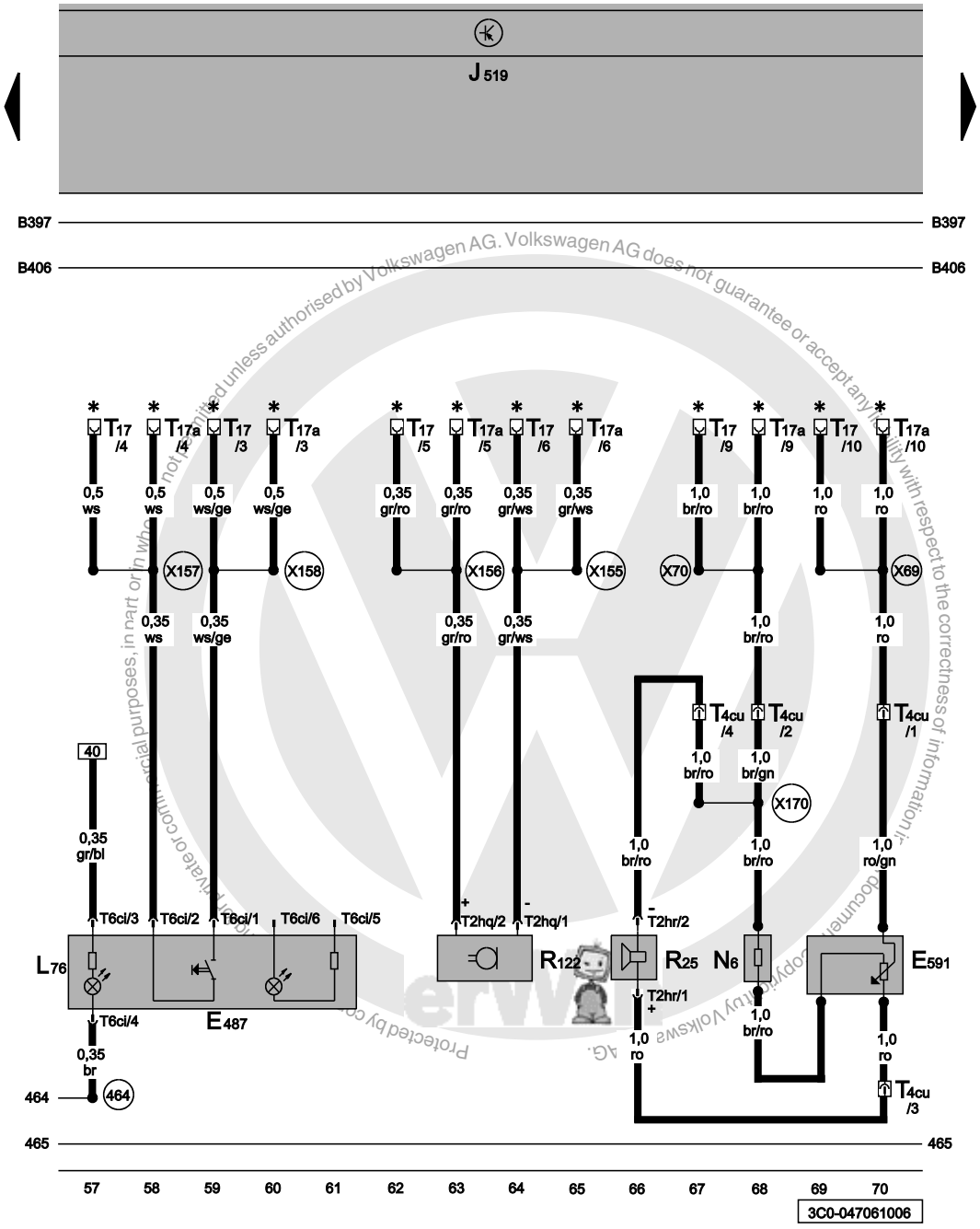


Special vehicle control unit, taxi alarm remote control, control unit

J519	Onboard supply control unit
J601	Taxi alarm remote control, control unit
J608	Special vehicle control unit
R107	Remote controlled taxi alarm aerial
T2hm	2-pin connector, black, coupling point convenience CAN data bus
T6ce	6-pin connector
T12m	12-pin connector, black
T17	17-pin connector, black, in glove compartment
T17a	17-pin connector, black, on right in luggage compartment
T88	88-pin connector
465	Earth connection 4, in taxi wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
X71	Connection 3, in taxi wiring harness
X81	Connection 4, in taxi wiring harness
X153	Positive connection 3 (15), in taxi wiring harness
*	Two-way radio connection

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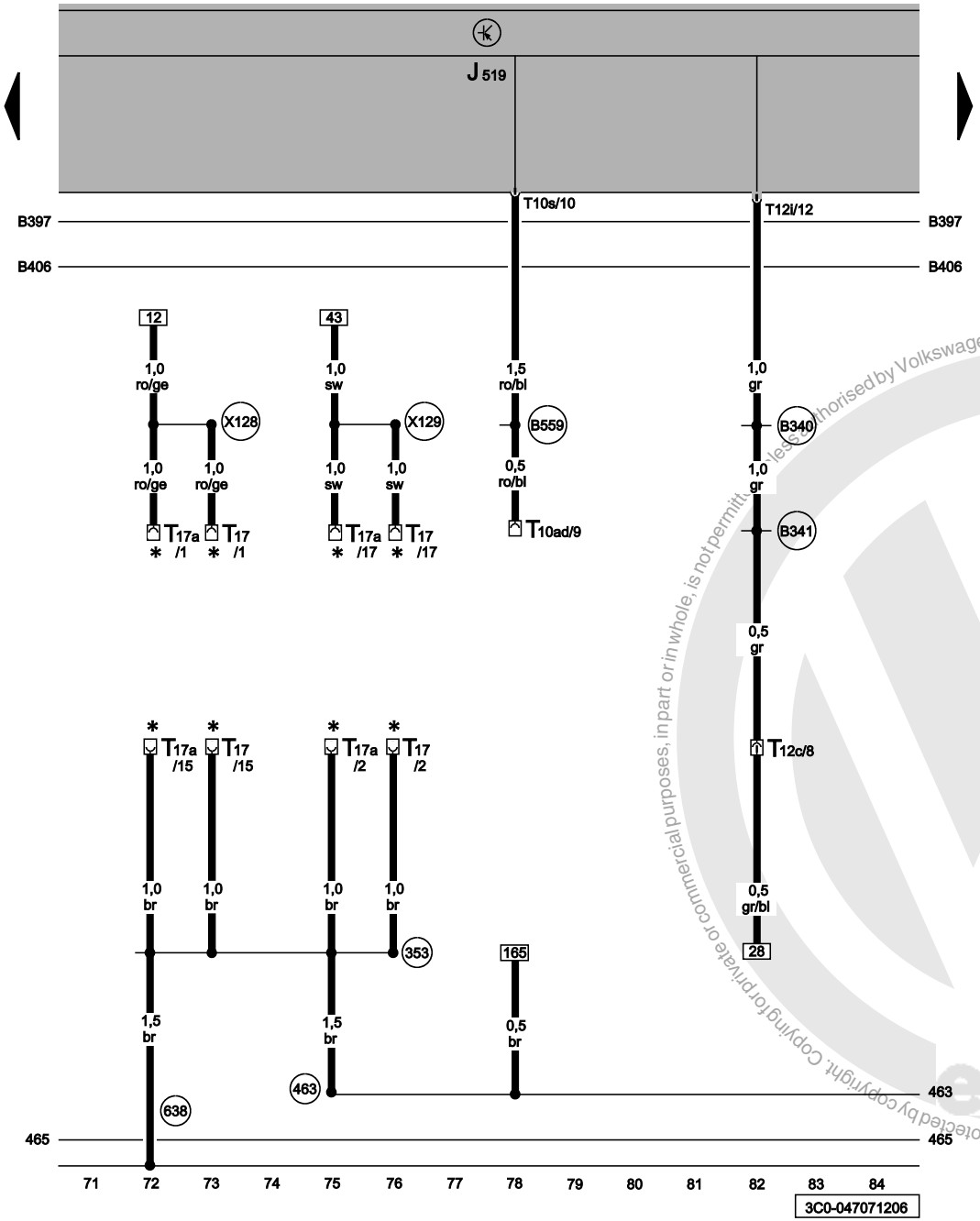


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Hands-free system button, two-way radio loudspeaker, two-way radio microphone, volume control for two-way radio

E487	Hands-free system button
E591	Volume control for two-way radio
J519	Onboard supply control unit
L76	Button illumination bulb
N6	Series resistor
R25	Two-way radio loudspeaker
R122	2-way radio unit microphone
T2hq	2-pin connector
T2hr	2-pin connector
T4cu	4-pin connector, black, centre console
T6ci	6-pin connector
T17	17-pin connector, black, in glove compartment
T17a	17-pin connector, black, on right in luggage compartment
464	Earth connection 3, in taxi wiring harness
X69	Connection 1, in taxi wiring harness
X70	Connection 2, in taxi wiring harness
X155	Connection 5, in taxi wiring harness
X156	Connection 6, in taxi wiring harness
X157	Connection 7, in taxi wiring harness
X158	Connection 8, in taxi wiring harness
X170	Connection 18, in taxi wiring harness
*	Two-way radio connection

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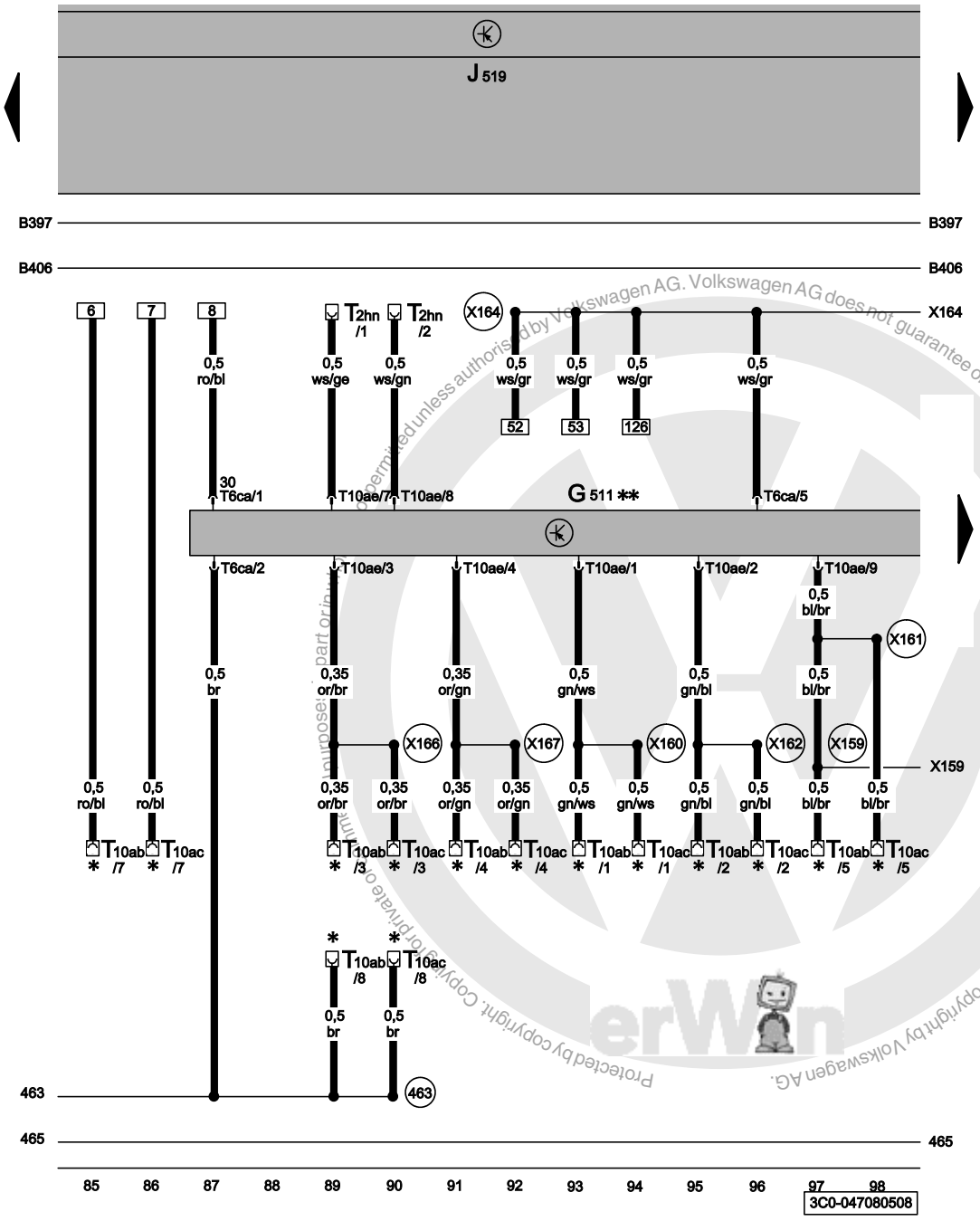


Two-way radio connection

J519	Onboard supply control unit
T10ad	10-pin connector, black, coupling point, left A-pillar
T10s	10-pin connector, black
T12c	12-pin connector, black, coupling point, left A-pillar
T12i	12-pin connector, black
T17	17-pin connector, black, in glove compartment
T17a	17-pin connector, black, on right in luggage compartment
353	Earth connection, in taxi wiring harness
463	Earth connection 2, in taxi wiring harness
638	Earth point, on right A-pillar
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B559	Connection 1 (30g), in main wiring harness
X128	Positive connection 4 (30a), in taxi wiring harness
X129	Positive connection 1 (15), in taxi wiring harness
*	Two-way radio connection

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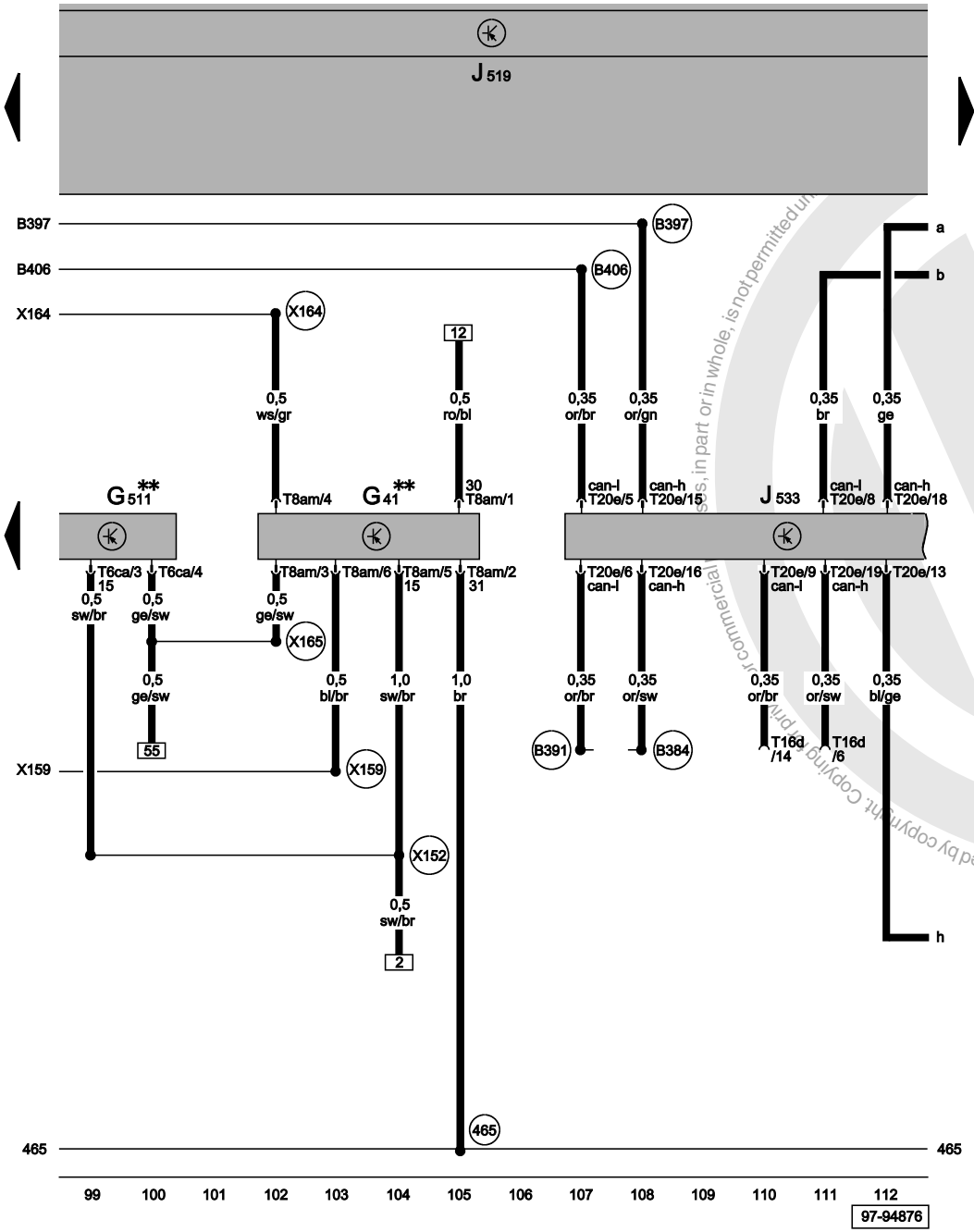


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Mirror taxi meter

G511	Mirror taxi meter
J519	Onboard supply control unit
T2hn	2-pin connector, black, behind glove compartment
T6ca	6-pin connector
T10ab	10-pin connector, black, in glove compartment
T10ac	10-pin connector, black, on right in luggage compartment
T10ae	10-pin connector
(463)	Earth connection 2, in taxi wiring harness
(X159)	Connection 9, in taxi wiring harness
(X160)	Connection 10, in taxi wiring harness
(X161)	Connection 11, in taxi wiring harness
(X162)	Connection 12, in taxi wiring harness
(X164)	Connection 14, in taxi wiring harness
(X166)	Connection (low bus), in taxi wiring harness
(X167)	Connection (high bus), in taxi wiring harness
*	Data transmission
**	component does not exist in the preparation

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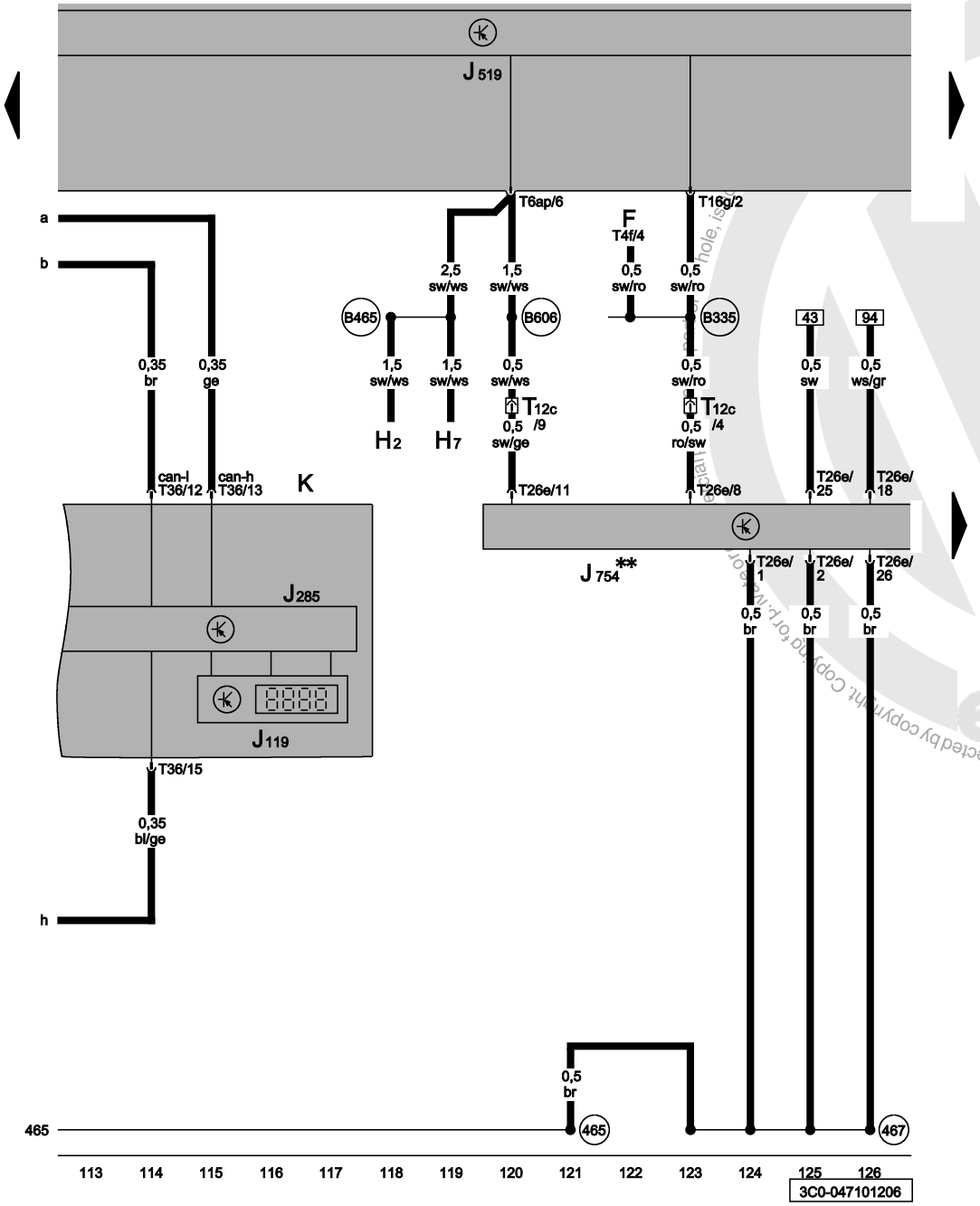


Taximeter, mirror taximeter, diagnostic interface

G41	Taximeter
G511	Mirror taxi meter
J519	Onboard supply control unit
J533	Data bus diagnosis interface
T6ca	6-pin connector
T8am	8-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
465	Earth connection 4, in taxi wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
X152	Positive connection 2 (15), in taxi wiring harness
X159	Connection 9, in taxi wiring harness
X164	Connection 14, in taxi wiring harness
X165	Connection 15, in taxi wiring harness
**	component does not exist in the preparation

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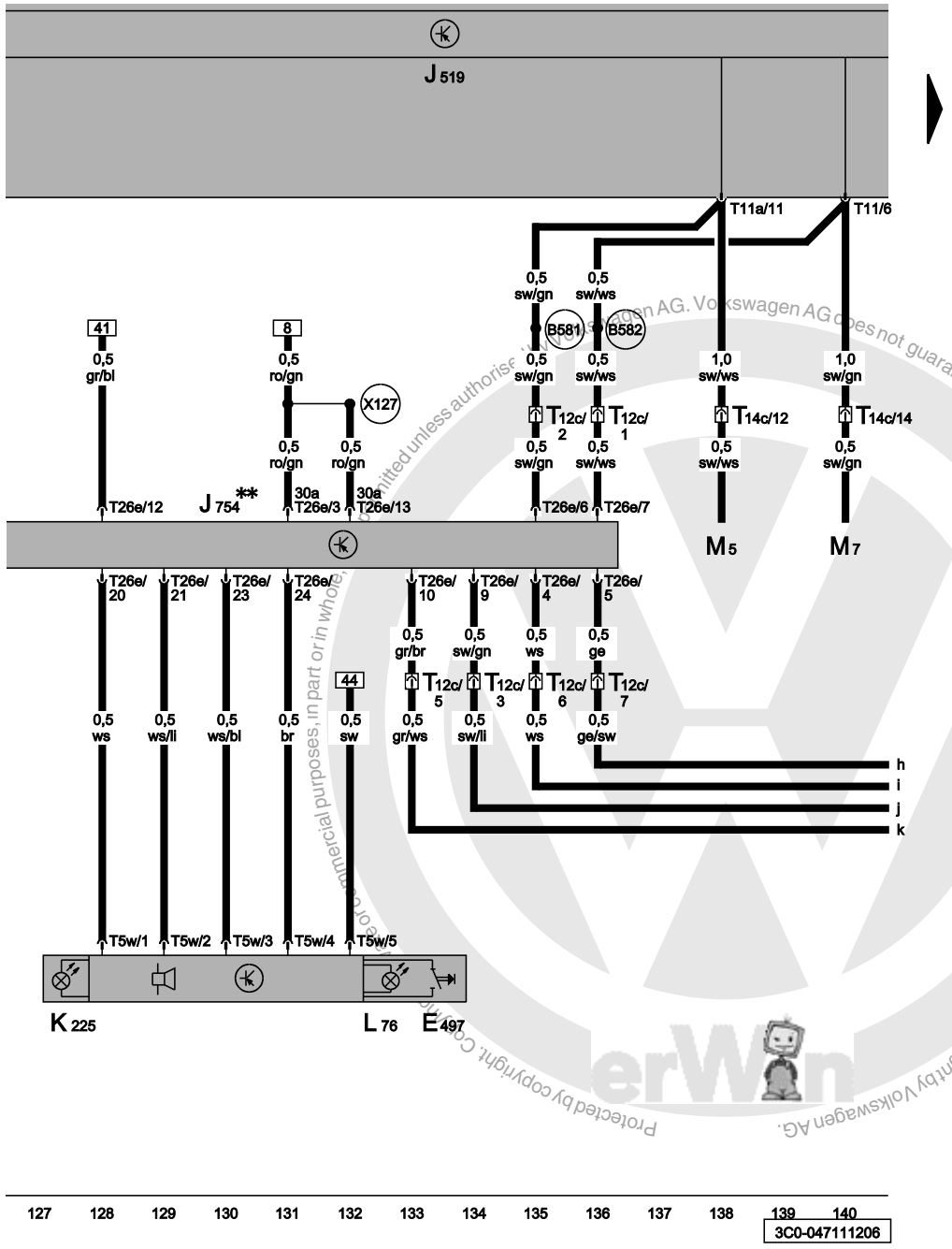


Accident data memory, dash panel insert

F	Reversing light switch
H2	Treble horn
H7	Bass horn
J119	Multifunction display
J754	Accident data memory
J285	Control unit with display in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T4f	4-pin connector
T6ap	6-pin connector
T12c	12-pin connector, black, coupling point, left A-pillar
T16g	16-pin connector
T26e	26-pin connector
T36	36-pin connector
465	Earth connection 4, in taxi wiring harness
467	Earth connection 6, in taxi wiring harness
B335	Connection 1 (54), in main wiring harness
B465	Connection 1, in main wiring harness
B606	Connection 2, in interior wiring harness
**	component does not exist in the preparation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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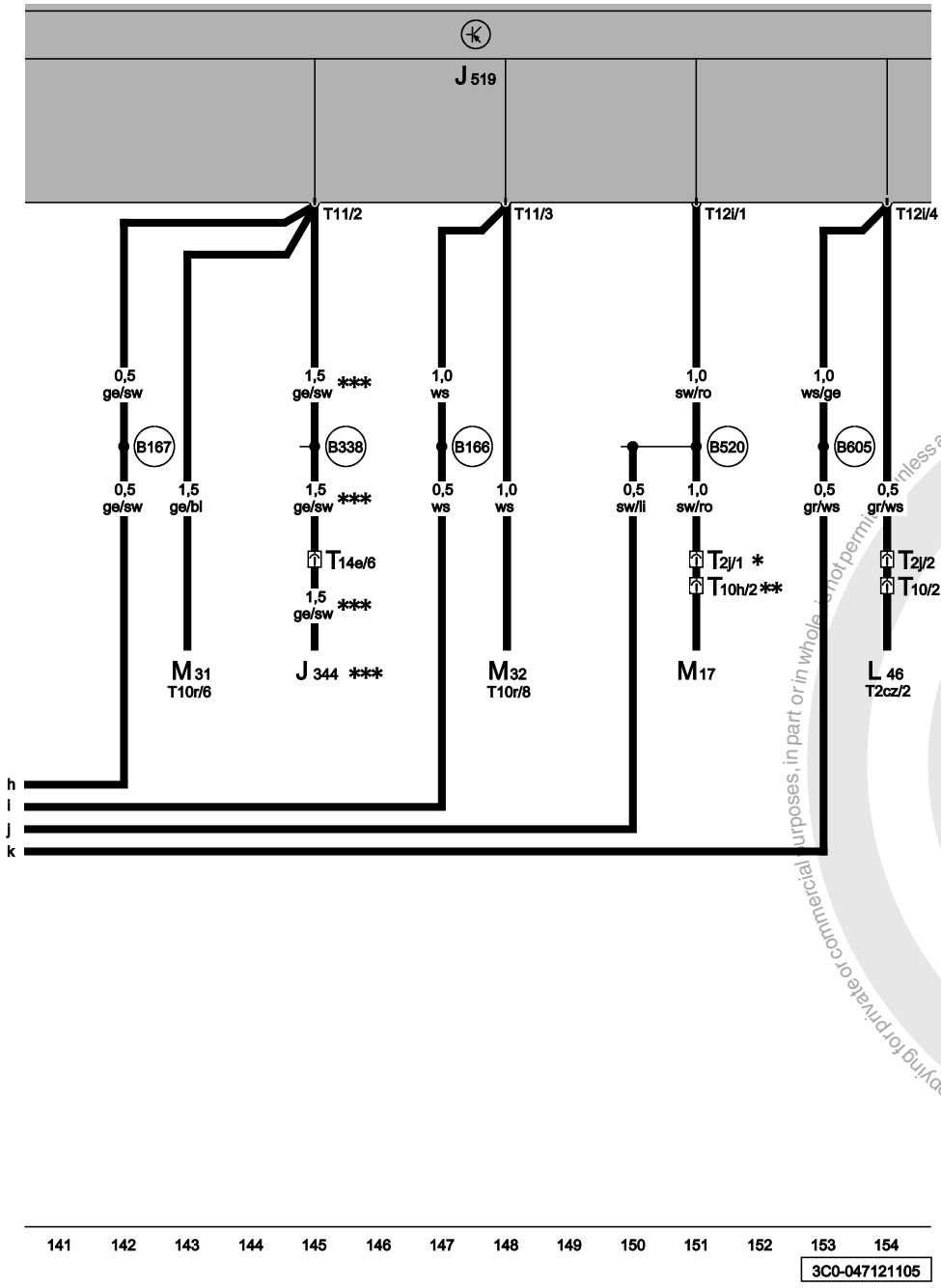


Accident data memory, accident data recorder button

E497	Accident data recorder button
J519	Onboard supply control unit
J754	Accident data memory
K225	Accident recorder warning lamp
L76	Button illumination bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
T5w	5-pin connector
T11	11-pin connector
T11a	11-pin connector, brown
T12c	12-pin connector, black, coupling point, left A-pillar
T14c	14-pin connector, coupling point, front left of bumper
T26e	26-pin connector
B581	Positive connection (left indicator lamp), in interior wiring harness
B582	Positive connection (right indicator lamp), interior wiring harness
X127	Positive connection 3 (30a), in taxi wiring harness
**	component does not exist in the preparation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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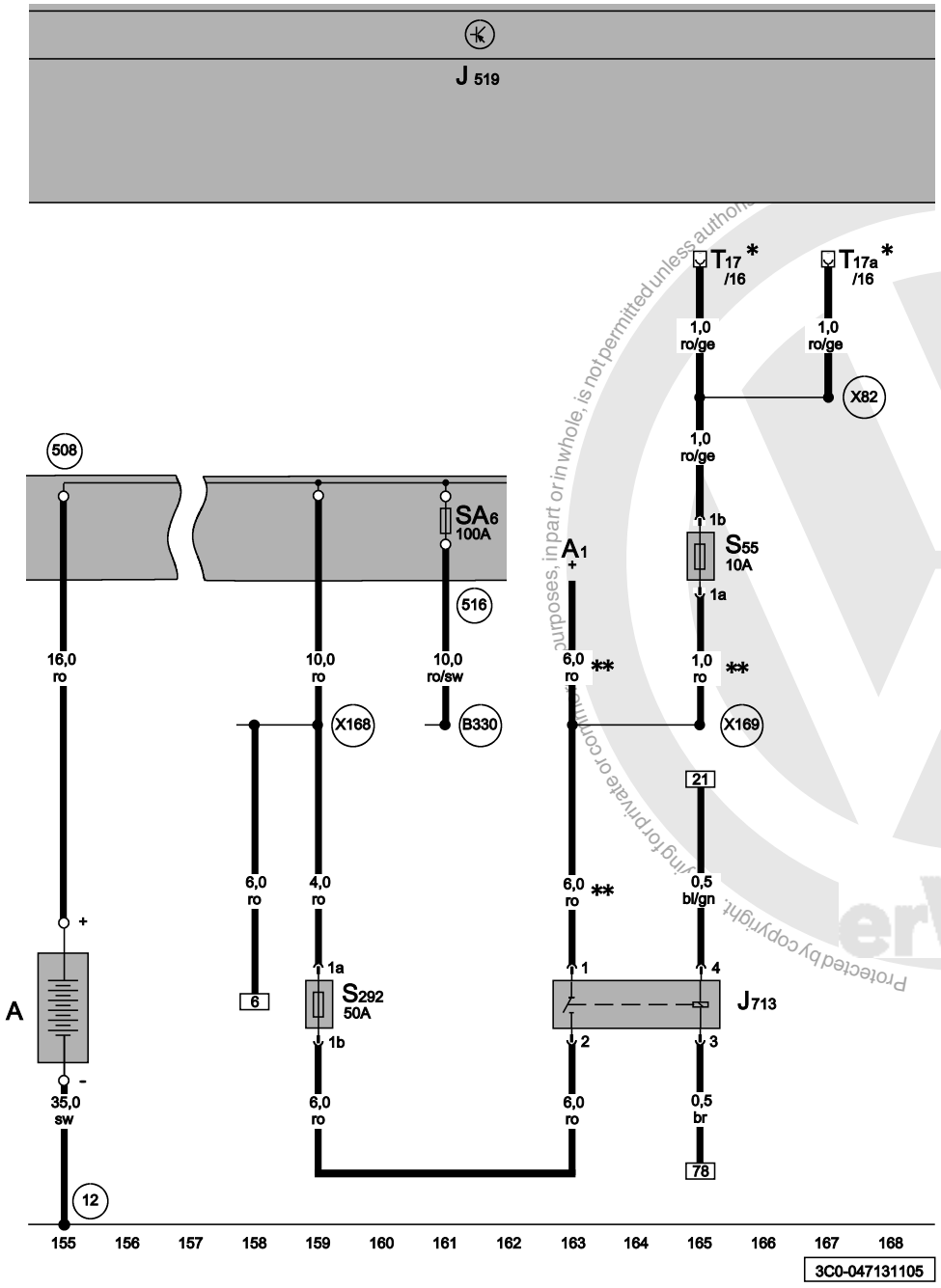


Connection on light system

J344	Right gas discharge bulb control unit
J519	Onboard supply control unit
L46	Rear left fog light bulb
M17	Right reversing light bulb
M31	Right headlight dipped beam bulb
M32	Right headlight main beam bulb
T2cz	2-pin connector
T2j	2-pin connector
T10	10-pin connector, coupling point, on left of rear lid
T10h	10-pin connector, coupling point on right of rear lid
T10r	10-pin connector
T11	11-pin connector
T12i	12-pin connector
T14e	14-pin connector
B166	Connection (56a), in interior wiring harness
B167	Connection (56b), in interior wiring harness
B338	Connection 1 (56), in main wiring harness
B520	Connection (RL), in main wiring harness
B605	Connection 1, in interior wiring harness
*	Only saloon models
**	Only Variant models
***	Only models with gas discharge bulb

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Battery, second battery, two-way radio fuse, second battery charging circuit relay

A	Battery
A1	Second battery
J519	Onboard supply control unit
J713	Second battery charging circuit relay
S55	Two-way radio fuse
S292	Special vehicle fuse 2
SA6	Fuse 6 on fuse holder A
T17	17-pin connector, black, in glove compartment
T17a	17-pin connector, black, on right in luggage compartment
12	Earth point, on left in engine compartment
508	Screw connection (30) on E-box
516	Threaded connection 6 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
X82	Positive connection 1 (30a), in taxi wiring harness
X168	Connection 16, in taxi wiring harness
X169	Connection 17, in taxi wiring harness
*	Two-way radio connection
**	component does not exist in the preparation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Disabled persons

⇒ **with special vehicle control unit**

From May 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth points

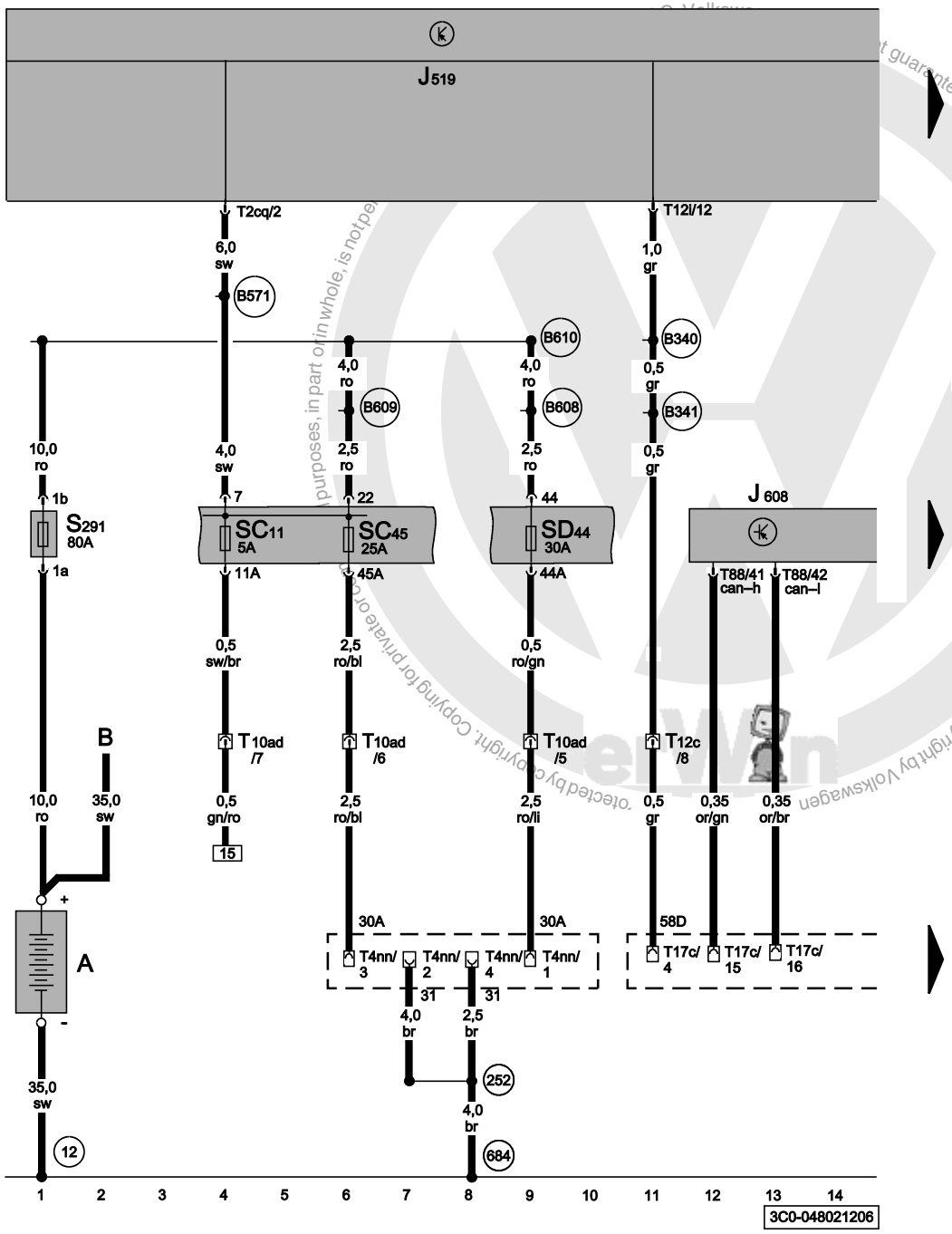
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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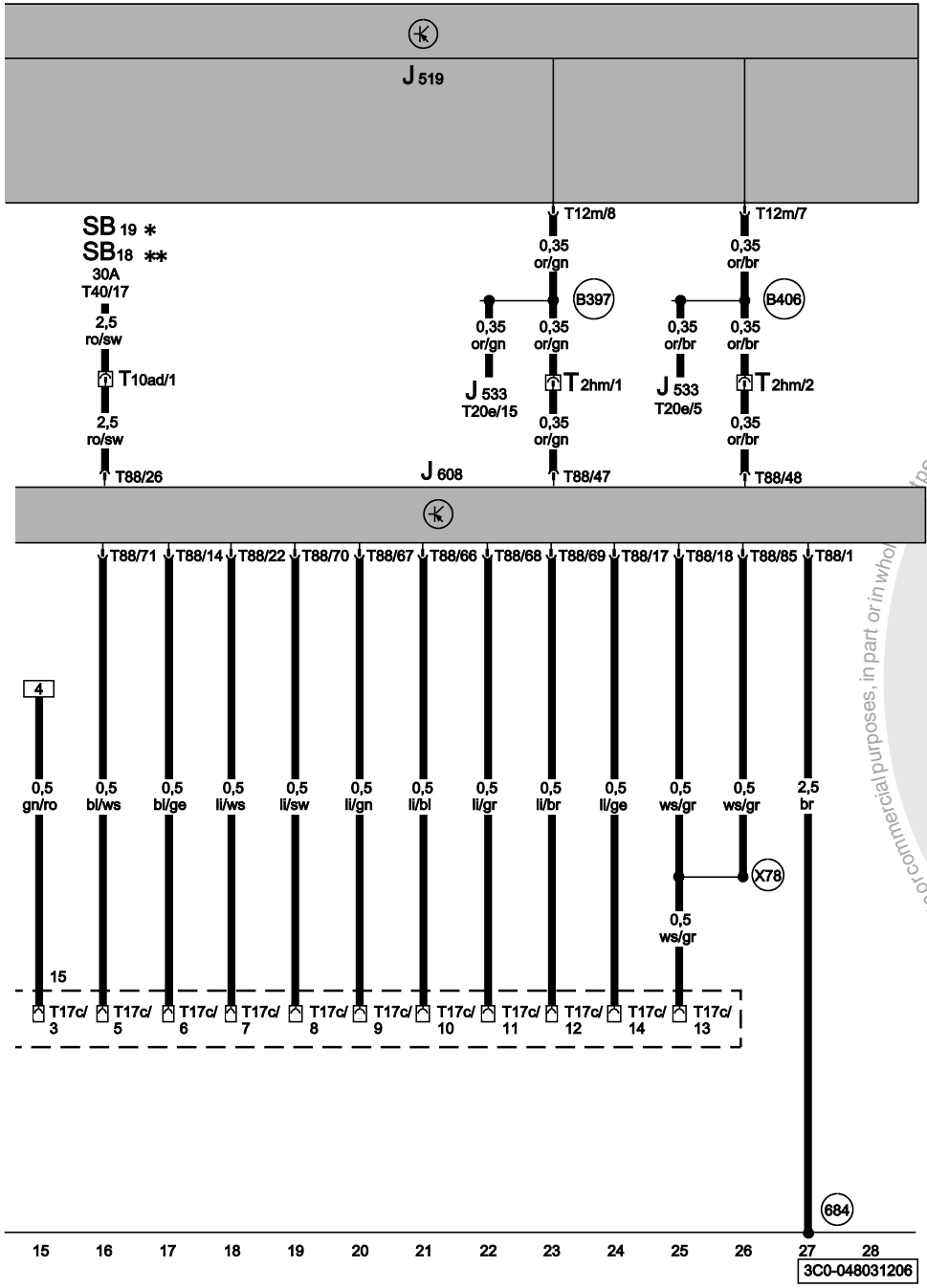


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Onboard power supply control unit, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
J608	Special vehicle control unit
S291	Special vehicle fuse 1
SC11	Fuse 11 on fuse holder C
SC45	Fuse 45 on fuse holder C
SD44	Fuse 44 on fuse holder D
T2cq	2-pin connector
T4nn	4-pin connector, coupling point disabled persons
T10ad	10-pin connector
T12c	12-pin connector, coupling point, left A-pillar
T12i	12-pin connector
T17c	17-pin connector, coupling point disabled persons
T88	88-pin connector
12	Earth point, on left in engine compartment
252	Earth connection, in optional equipment wiring harness
684	Earth point at front of left side member
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B571	Connection 38 in main wiring harness
B608	Connection 4 in interior wiring harness
B609	Connection 5 in interior wiring harness
B610	Connection 6 in interior wiring harness

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Special vehicle control unit, onboard supply control unit, data bus diagnostic interface

J519	Onboard supply control unit
J533	Data bus diagnostic interface
J608	Special vehicle control unit
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T2hm	2-pin connector
T10ad	10-pin connector
T12m	12-pin connector
T17c	17-pin connector, coupling point disabled persons
T20e	20-pin connector
T40	40-pin connector
T88	88-pin connector
684	Earth point at front of left side member
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
X78	Connection 1 in optional equipment wiring harness
*	Models with E-box low only
**	Models with E-box high only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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2.0 l/100 kW - Turbodiesel, engine code BKP

from November 2004

2.0 l/103 kW - Turbodiesel, engine code BMA

from November 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

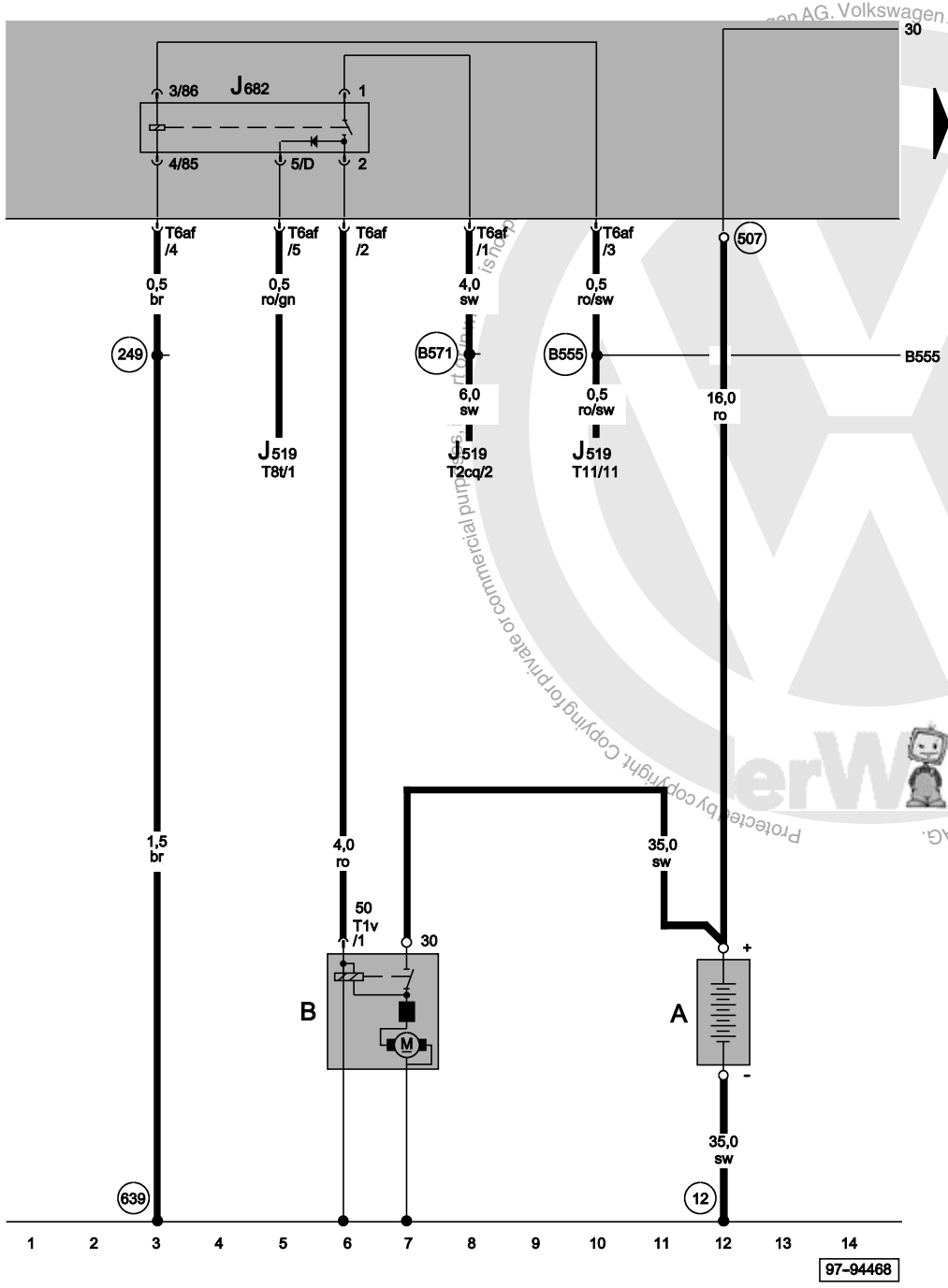
→ List of Fitting Locations!

For information concerning

- Fault Finding Programs

→ guided fault finding

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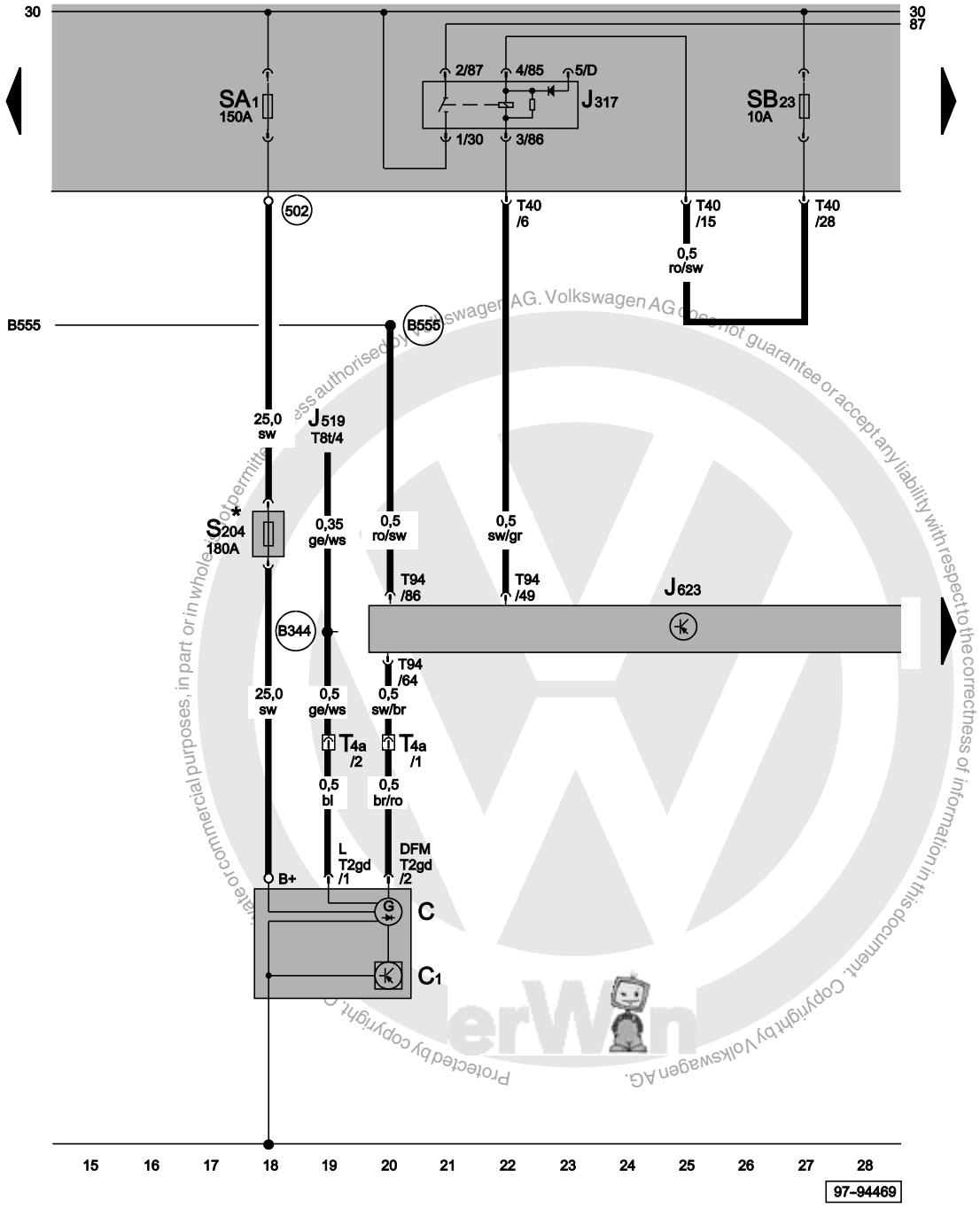


Terminal 50 voltage supply relay, battery, starter

A	Battery
B	Starter
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay
T1v	Single connector
T2cq	2-pin connector, black
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
507	Screw connection (30), on fuse holder on battery
639	Earth point, left A-pillar
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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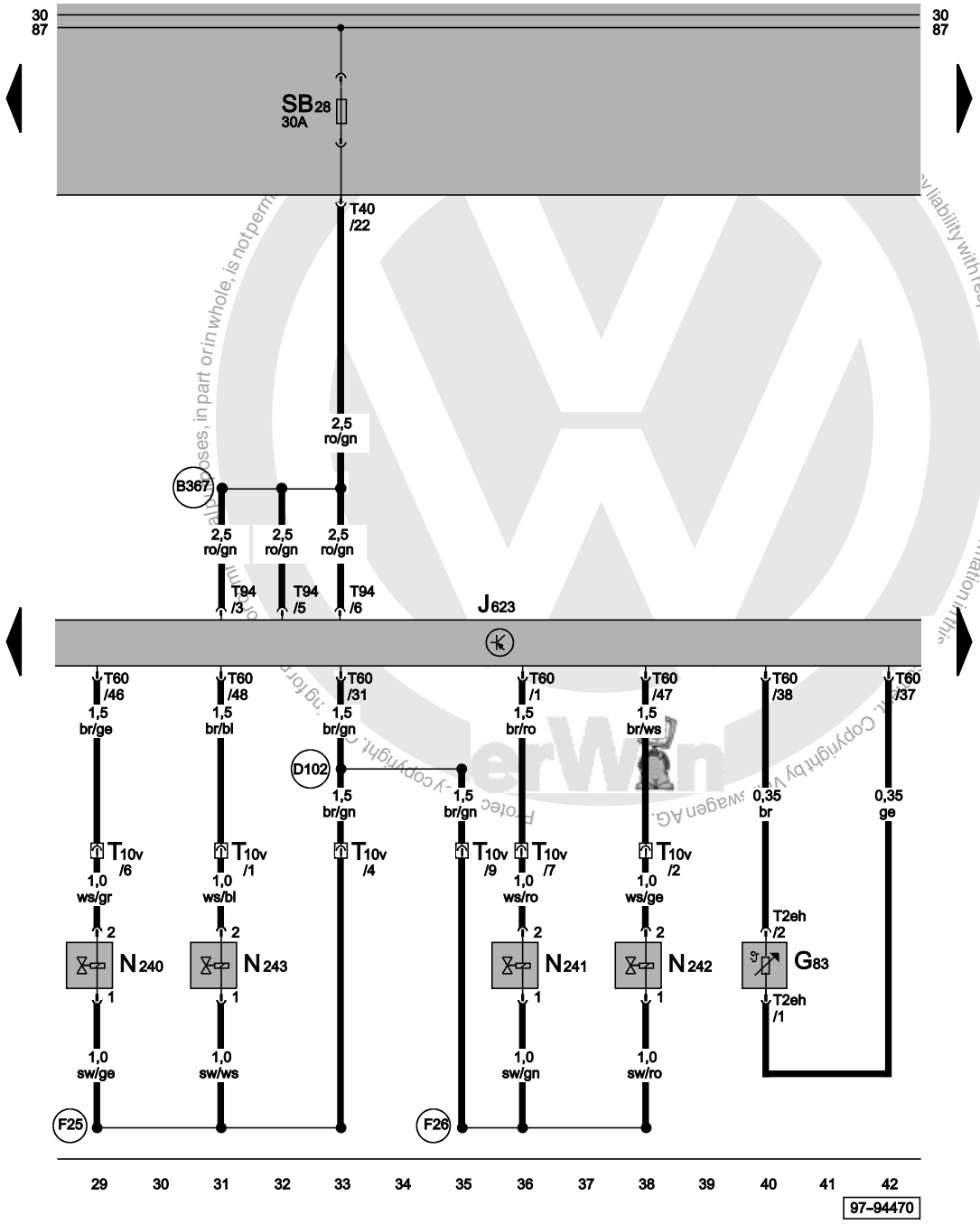


Terminal 30 voltage supply relay, engine control unit, alternator, voltage regulator

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
J623	Engine control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SB23	Fuse 23 on fuse holder B
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector, black
T40	40-pin connector, under electronics box, in engine compartment
T94	94-pin connector
502	Screw connection 1 (30a), on relay plate
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
*	only models with 180 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

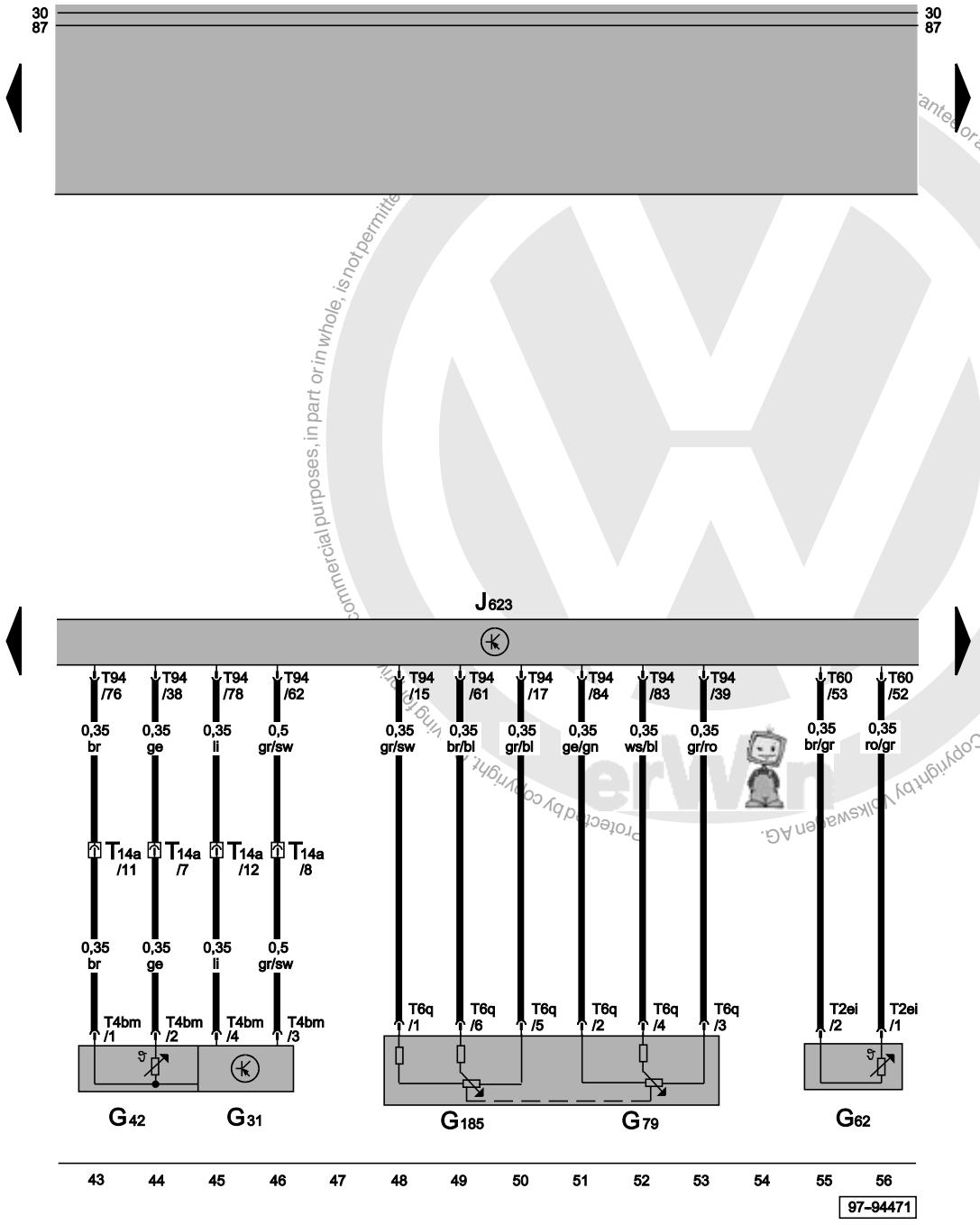
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Engine control unit, radiator outlet coolant temperature sender, unit injector valves, No. 1 cyl. to No. 4

G83	Radiator outlet coolant temperature sender
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
SB28	Fuse 28 on fuse holder B
T2eh	2-pin connector
T10v	10-pin connector, on left of cylinder head
T40	40-pin connector, under electronics box, in engine compartment
T60	60-pin connector
T94	94-pin connector
B367	Positive connection 18 (87a), in main wiring harness
D102	Connection 2, in engine compartment wiring harness
F25	Connection 1, in diesel direct injection system wiring harness
F26	Connection 2, in diesel direct injection system wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

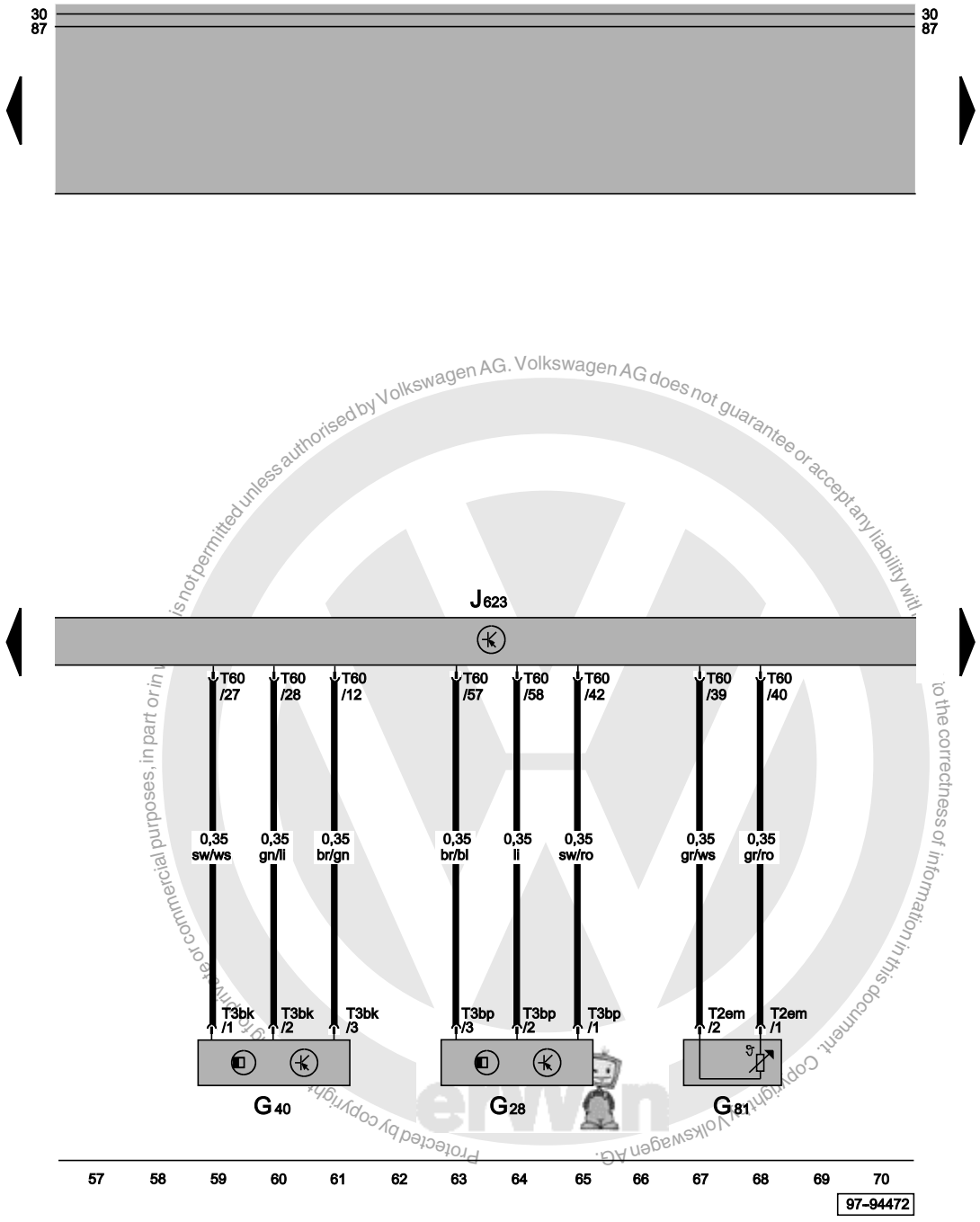


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender 2, coolant temperature sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T2ei	2-pin connector
T4bm	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T60	60-pin connector
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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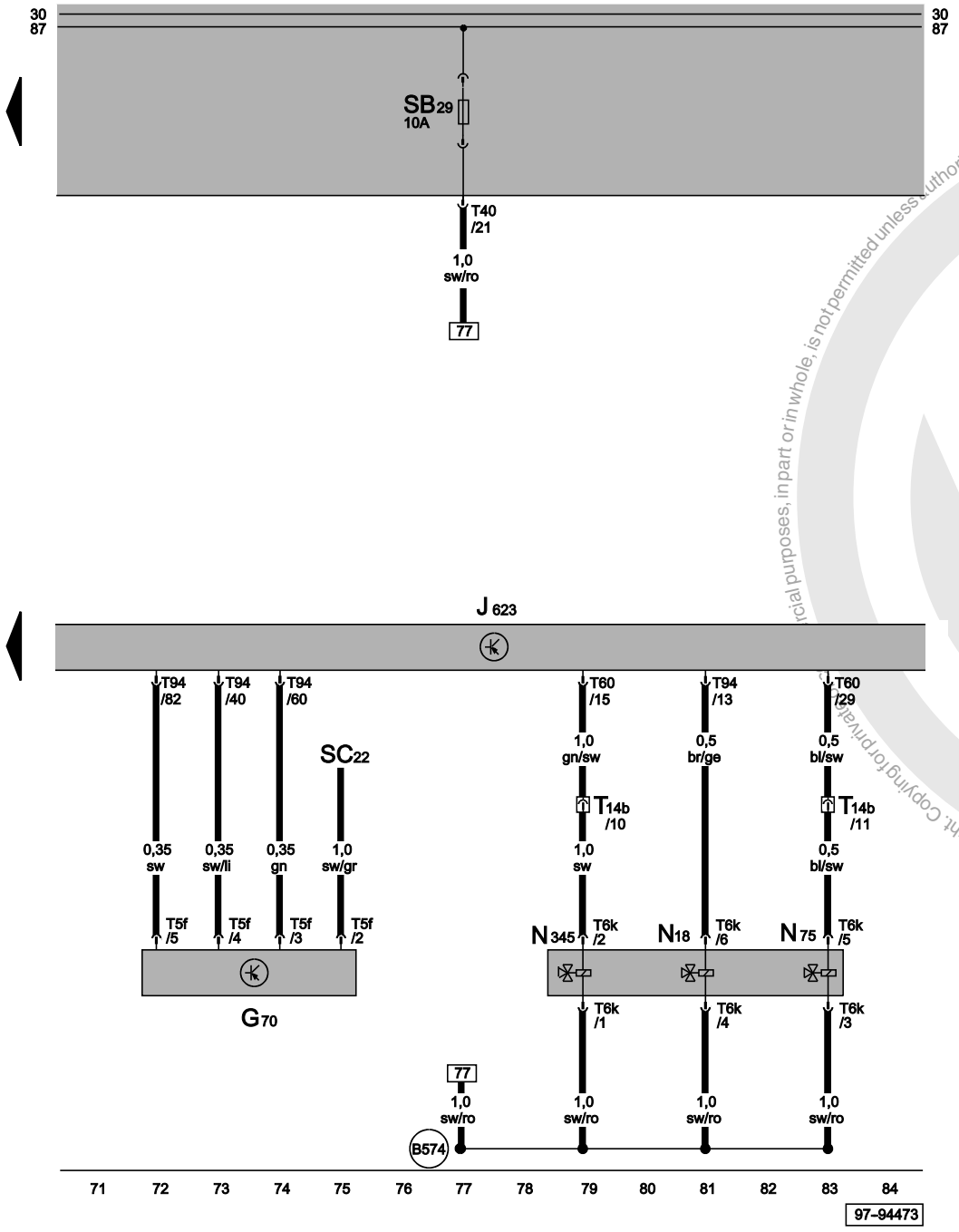


Engine control unit, engine speed sender, Hall sender, fuel temperature sender

G28	Engine speed sender
G40	Hall sender
G81	Fuel temperature sender
J623	Engine control unit
T2em	2-pin connector
T3bk	3-pin connector
T3bp	3-pin connector
T60	60-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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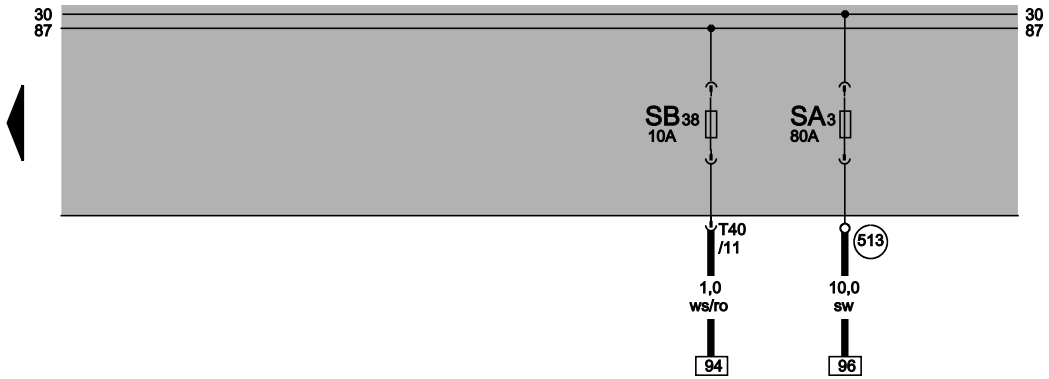


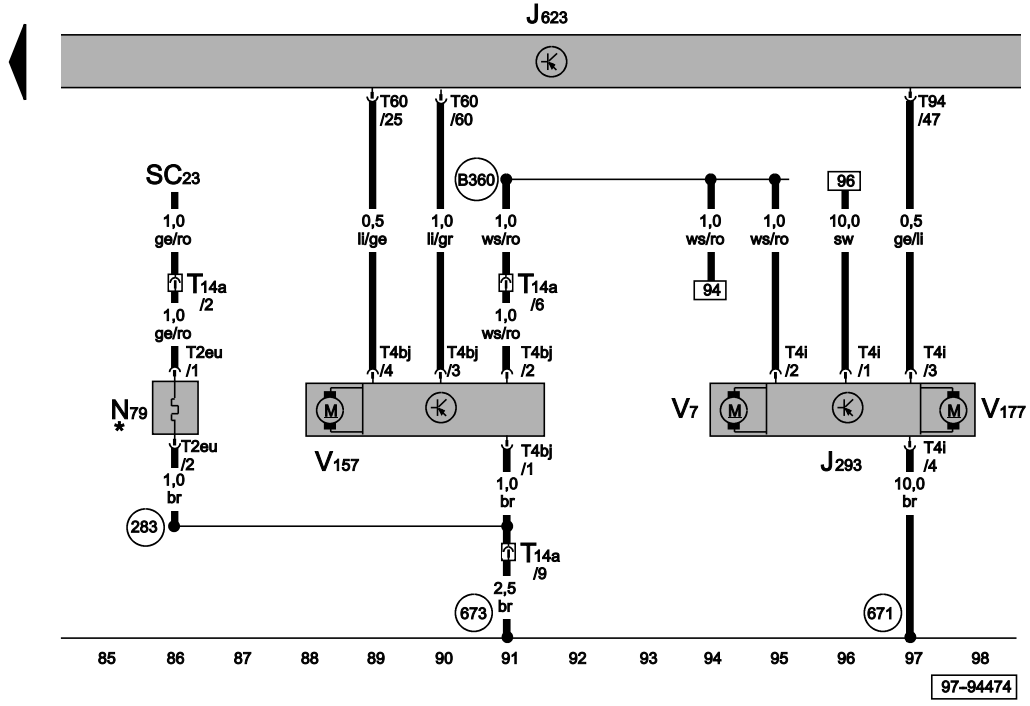
Engine control unit, exhaust gas recirculation valve, air mass meter, charge pressure control solenoid valve

G70	Air mass meter
J623	Engine control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler change-over valve
SB29	Fuse 29 on fuse holder B
SC22	Fuse 22 on fuse holder C
T5f	5-pin connector
T6k	6-pin connector
T14b	14-pin connector, coupling point 2 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Positive connection 20 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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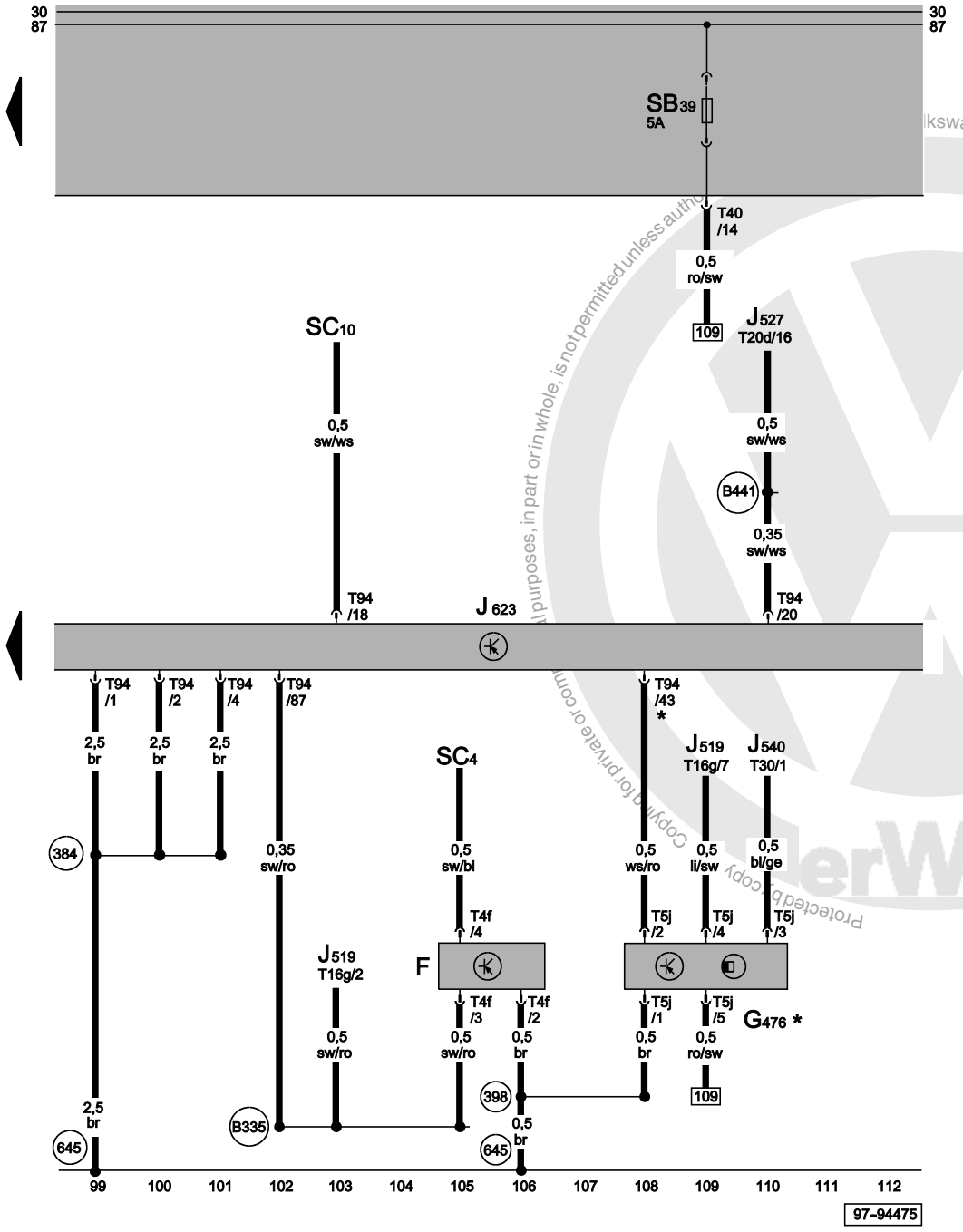


Engine control unit, heater element for crankcase breather, radiator fan, intake manifold flap motor

J293	Radiator fan control unit
J623	Engine control unit
N79	Heater element for crankcase breather
SA3	Fuse 3 on fuse holder A
SB38	Fuse 38 on fuse holder B
SC23	Fuse 23 on fuse holder C
T2eu	2-pin connector
T4bj	4-pin connector
T4i	4-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T60c	60-pin connector
T94	94-pin connector
V7	Radiator fan
V157	Intake manifold flap motor
V177	Radiator fan 2
283	Earth connection 2, in engine harness
513	Screw connection 3 (30a), on relay plate
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B360	Positive connection 11 (87a), in main wiring harness
*	models for cold countries only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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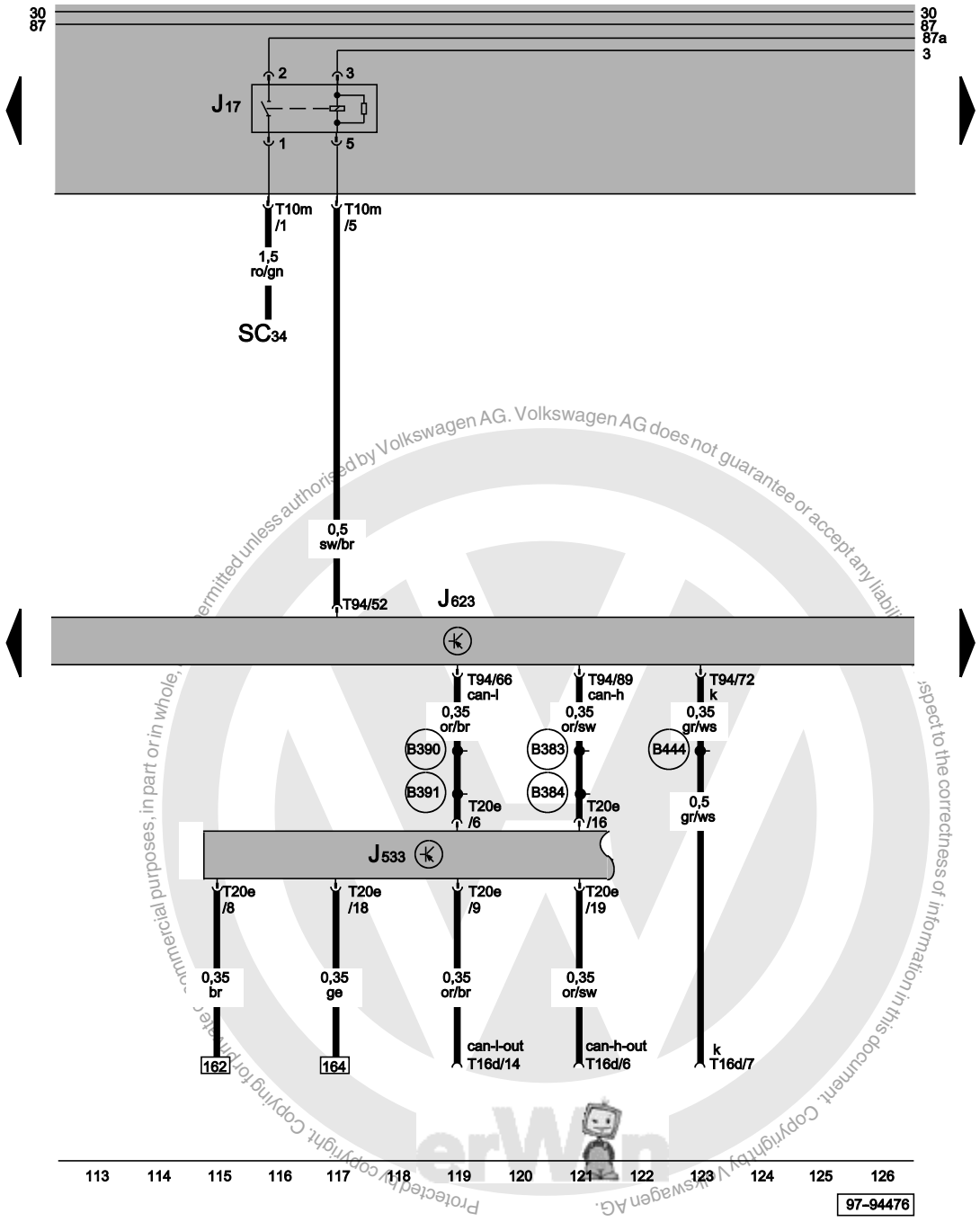


Engine control unit, brake light switch, clutch position sender

F	Brake light switch
G476	Clutch position sender
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Electric park and handbrake control unit
J623	Engine control unit
SB39	Fuse 39 on fuse holder B
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector, black
T20d	20-pin connector
T30	30-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T94	94-pin connector
384	Earth connection 19, in main wiring harness
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	models with manual gearbox

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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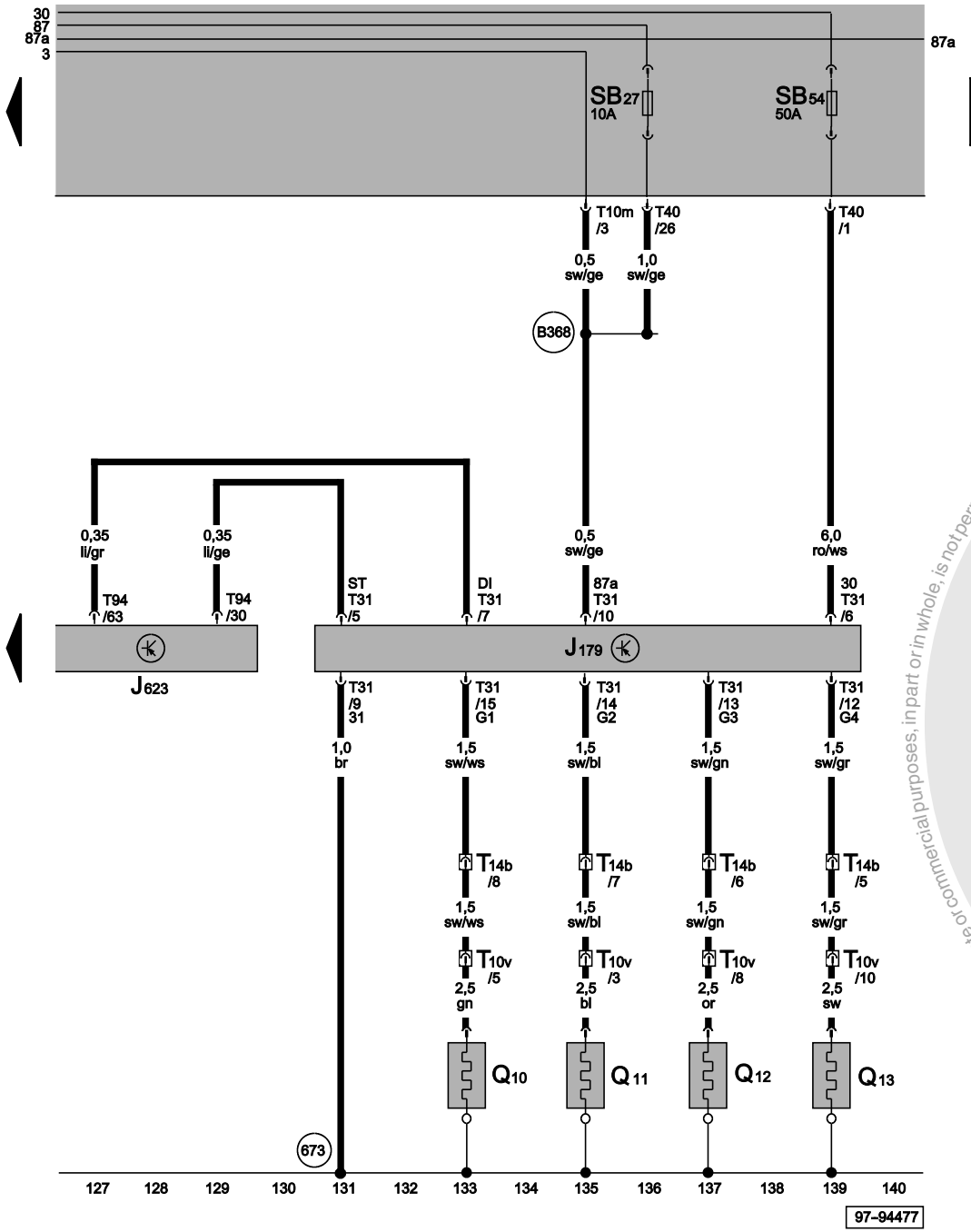


Engine control unit, fuel pump relay, data bus diagnostic interface, self-diagnosis connection

J17	Fuel pump relay
J533	Data bus diagnostic interface
J623	Engine control unit
SC34	Fuse 34 on fuse holder C
T10m	10-pin connector, on electronics box
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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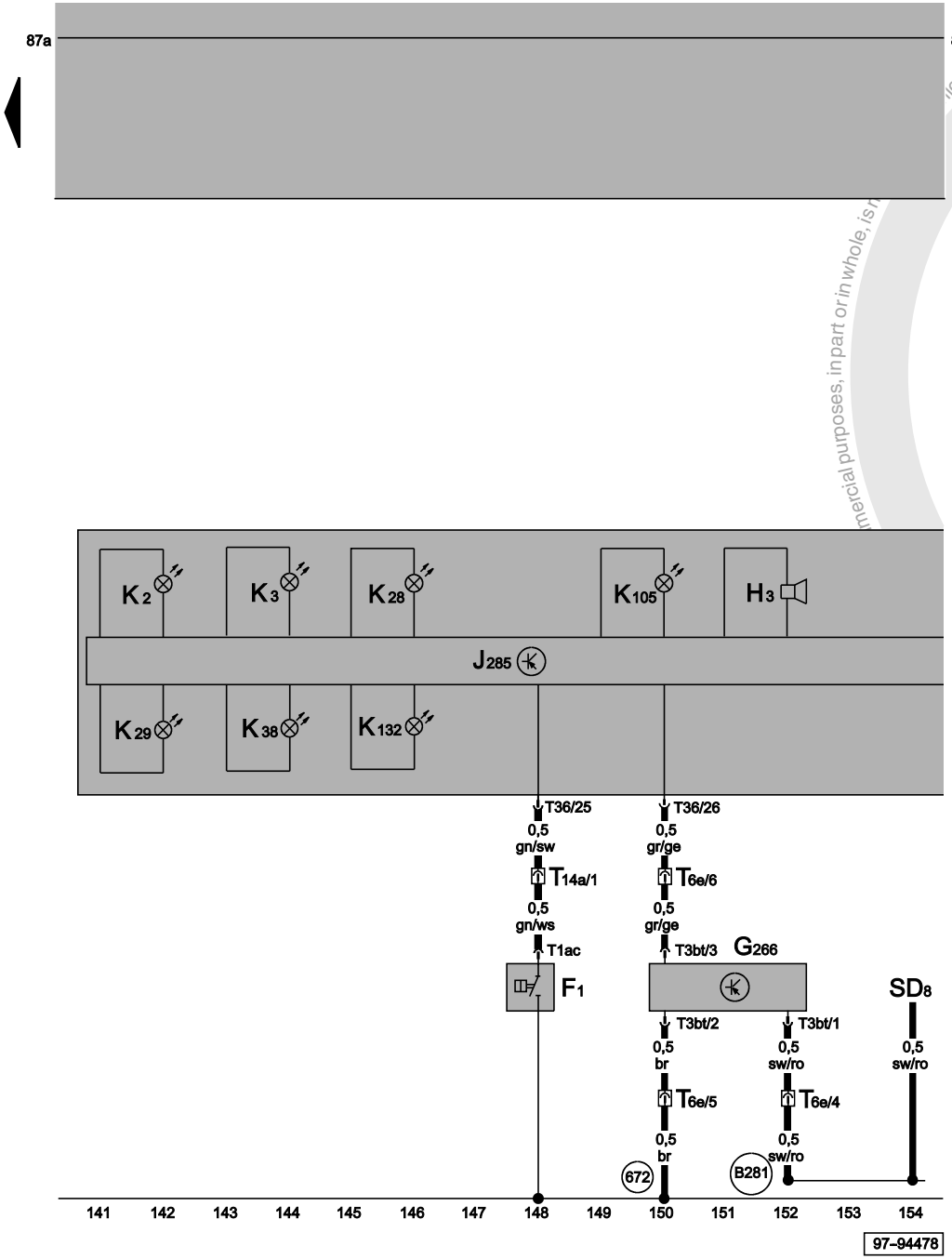


Engine control unit, automatic glow period control unit, glow plug 1-4

J179	Automatic glow period control unit
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
SB27	Fuse 27 on fuse holder B
SB54	Fuse 54 on fuse holder B
T10m	10-pin connector, on electronics box
T10v	10-pin connector, on left of cylinder head
T14b	14-pin connector, coupling point 2 in left engine compartment
T31	31-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T94	94-pin connector
673	Earth point 3, on front of left longitudinal member
B368	Positive connection 19 (87a), in main wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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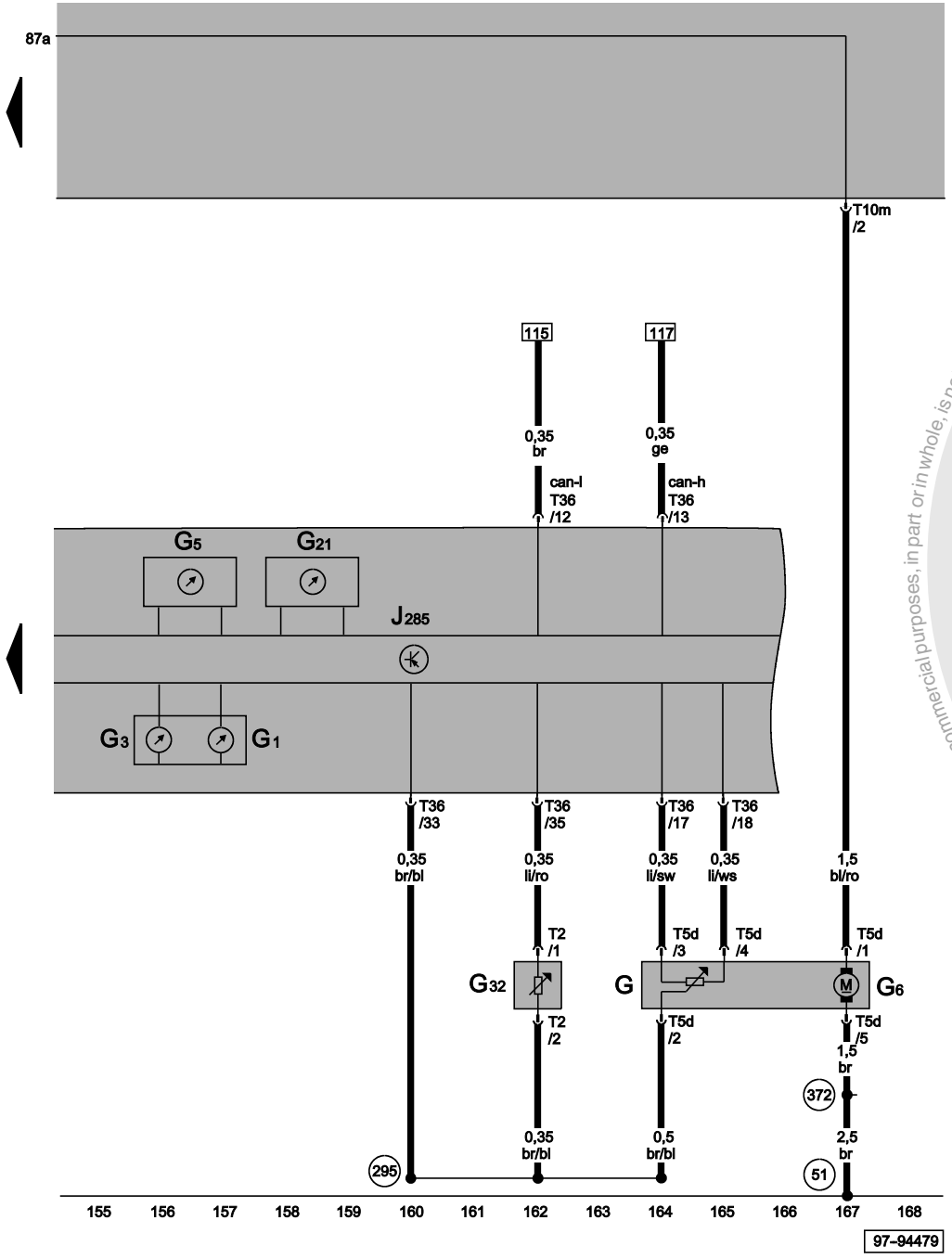


Dash panel insert, warning lamps, oil pressure switch, buzzer or gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T3bt	3-pin connector
T6e	6-pin connector, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Dash panel insert, rev. counter, speedometer, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
T2	2-pin connector
T5d	5-pin connector
T10m	10-pin connector, on electronics box
T36	36-pin connector
51	Earth point, on right in luggage compartment
295	Earth connection 10, in interior wiring harness
372	Earth connection 7, in main wiring harness

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Electric sliding sunroof

⇒ **Solar cells**

From May 2004

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

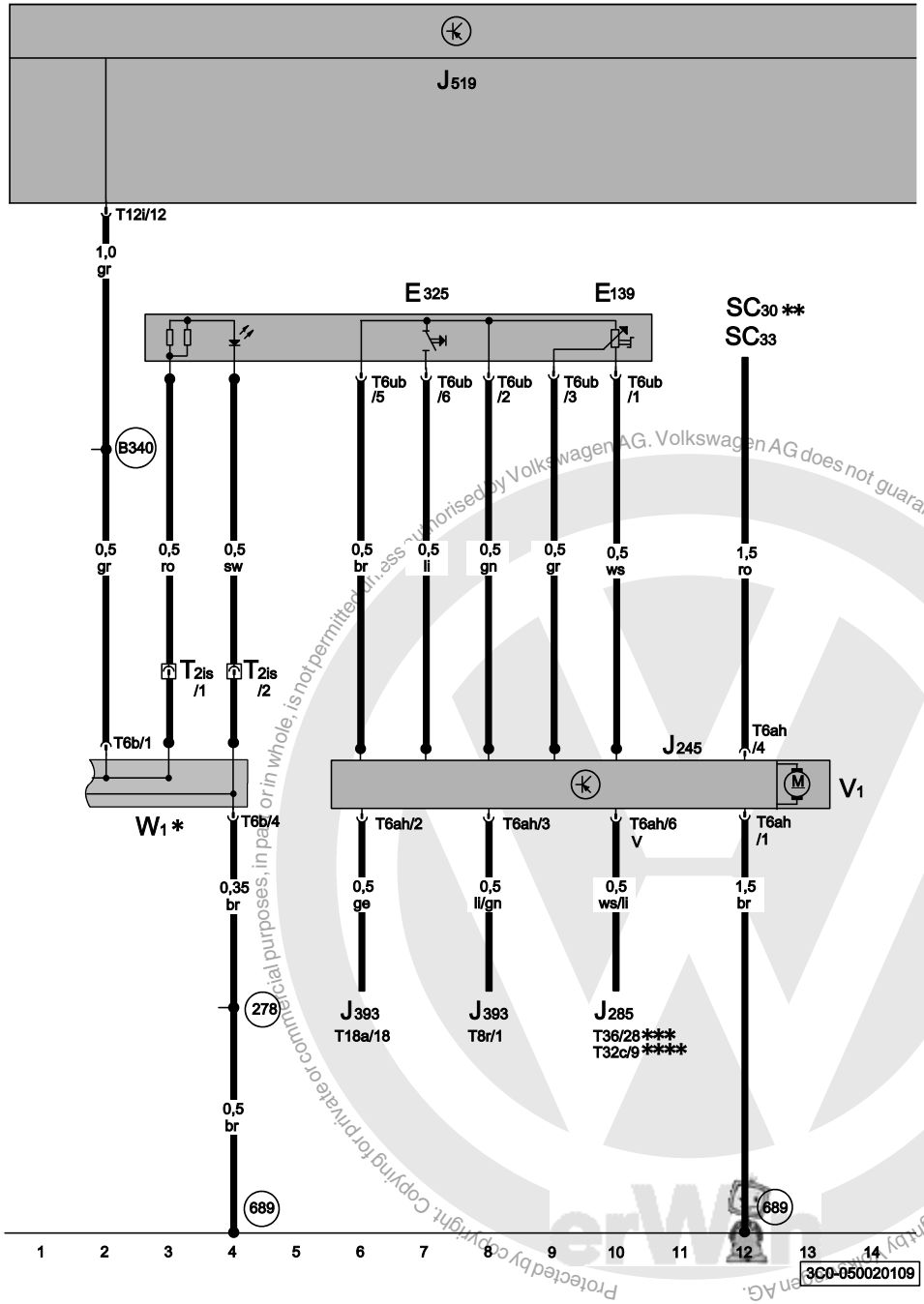
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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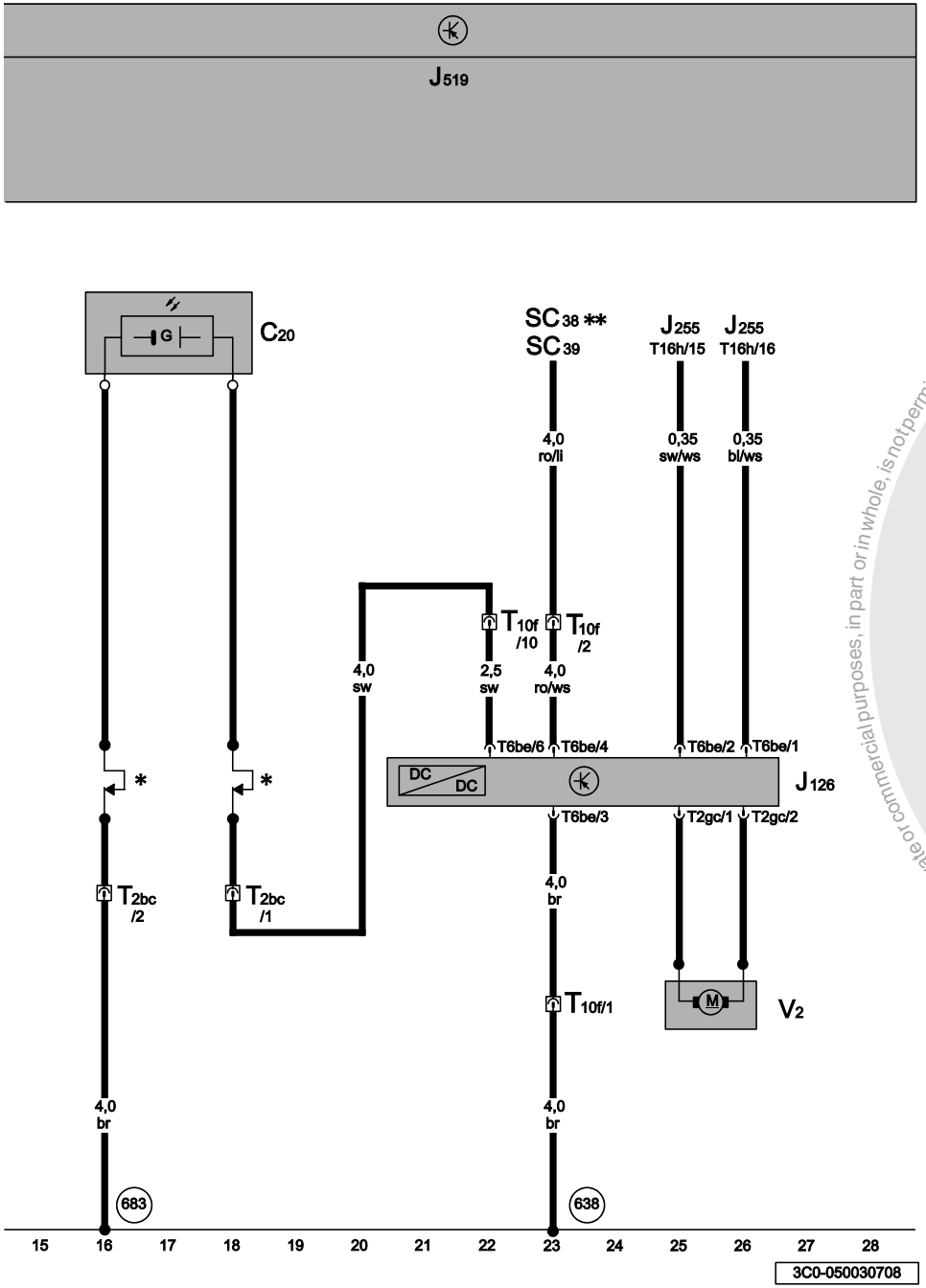


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Sliding sunroof adjustment control unit, sunroof button, sliding sunroof adjustment regulator, sliding sunroof motor

E139	Sliding sunroof adjustment regulator
E325	Sunroof button
J245	Sliding sunroof adjustment control unit
J285	Control unit in dash panel insert
J393	Convenience system central control unit
J519	Onboard supply control unit
SC30	Fuse 30 on fuse holder C
SC33	Fuse 33 on fuse holder C
T2is	2-pin connector, black
T6b	6-pin connector
T6ah	6-pin connector
T6ub	6-pin connector
T8r	8-pin connector
T12i	12-pin connector, black
T18a	18-pin connector
T32c	32-pin connector
T36	36-pin connector
V1	Sliding sunroof motor
W1	Front interior light
278	Earth connection 4, in interior wiring harness
689	Earth point, front centre of roof
B340	Connection 1 (58d), in main wiring harness
*	See CFD Convenience System
**	Applicable from May 2008
***	Applicable up to October 2008
****	Applicable from November 2008

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Solar cells, solar operation control unit, fresh air blower control unit, fresh air blower

C20	Solar cells
J126	Fresh air blower control unit, DC-DC converter installed in fresh air blower regulator
J255	Climatronic control unit
J519	Onboard supply control unit
SC38	Fuse 38 on fuse holder C
SC39	Fuse 39 on fuse holder C
T2bc	2-pin connector, on front right in sunroof frame
T2gc	2-pin connector
T6be	6-pin connector
T10f	10-pin connector, coupling point for heater and air conditioner unit, near fresh air blower
T16h	16-pin connector
V2	Fresh air blower
638	Earth point, on right A-pillar
683	Earth point on front of right side member
*	Spring contacts on sliding roof
**	Applicable from May 2008

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1.9 l/77 kW - Turbodiesel, engine code BLS

from May 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

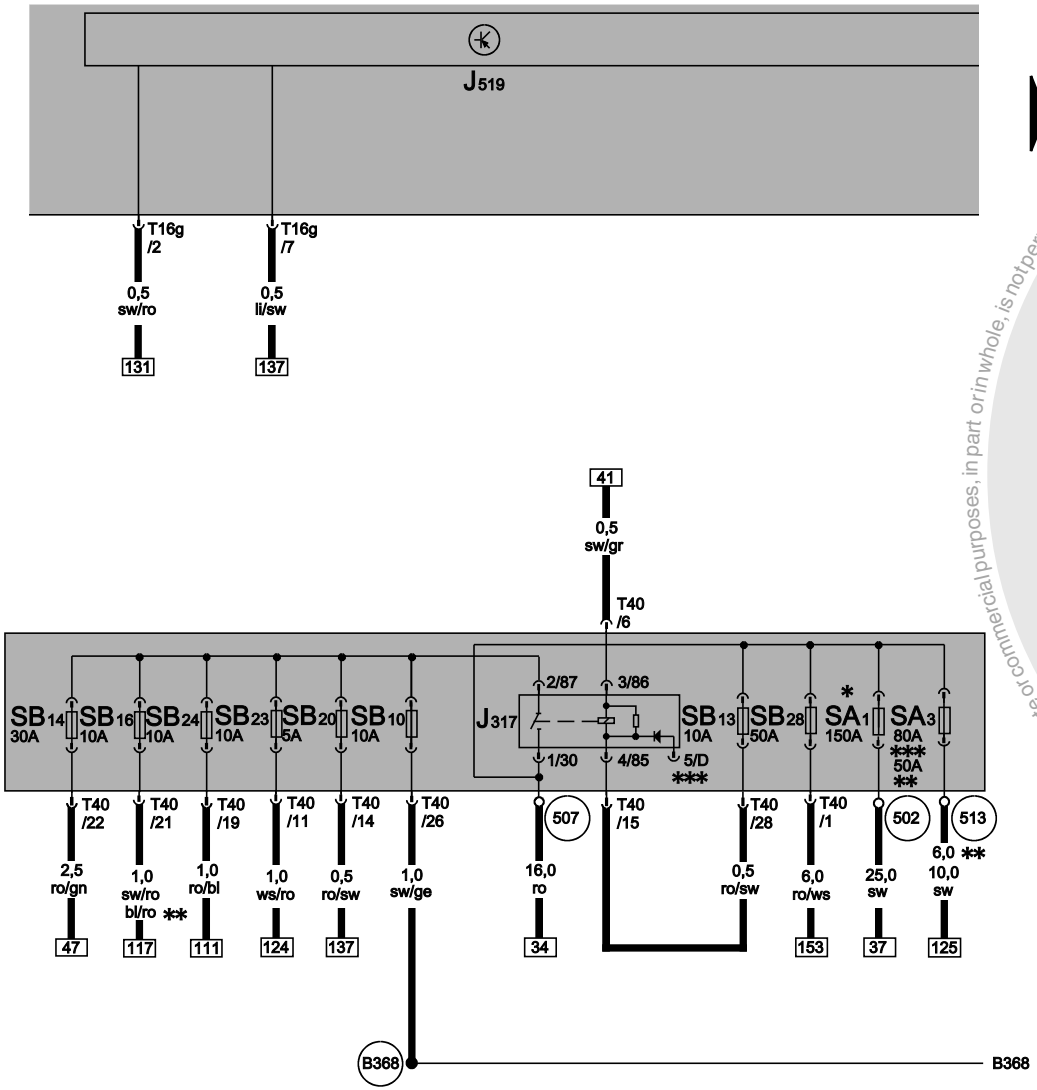
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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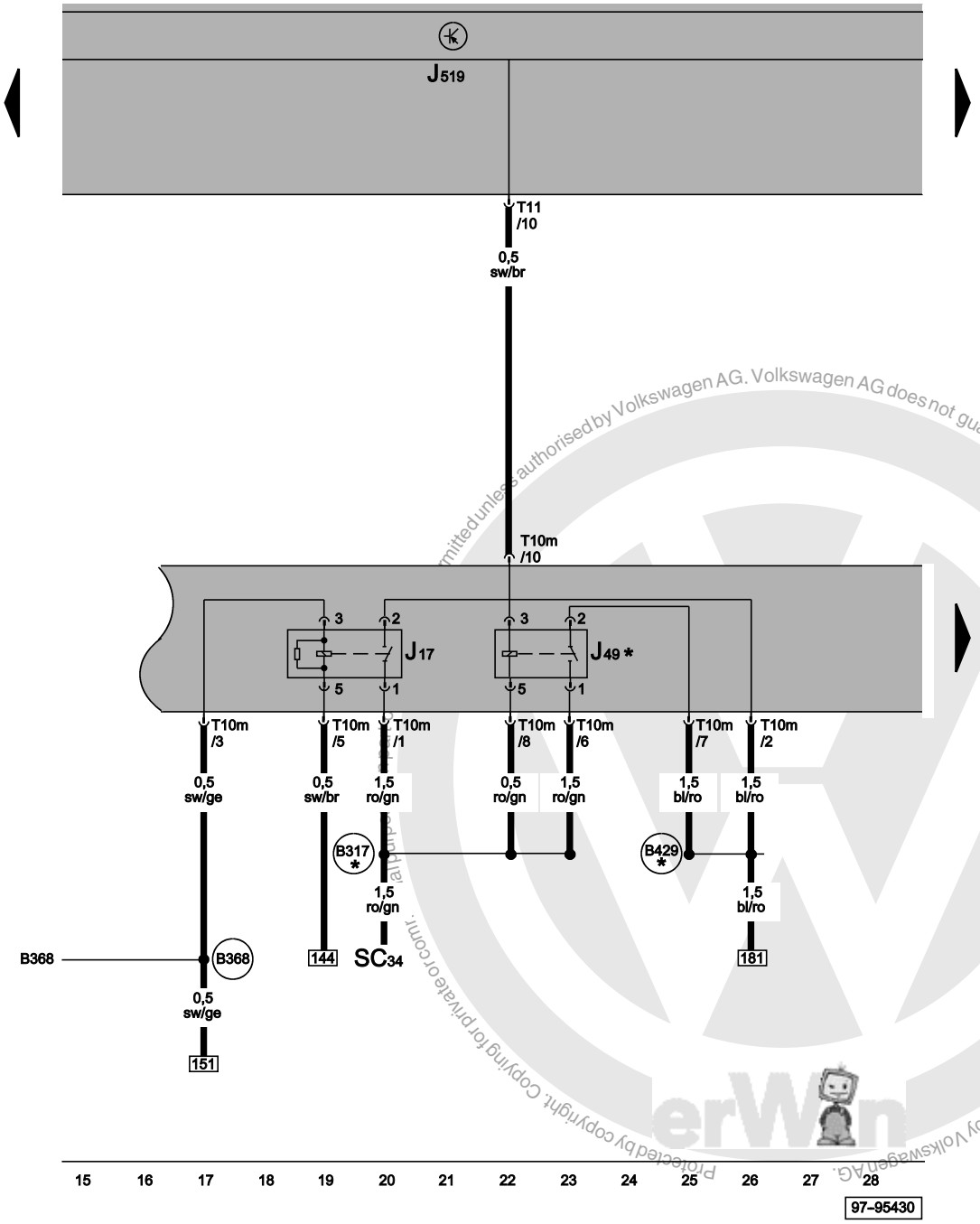


Terminal 30 voltage supply relay

J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
T16g	16-pin connector, black
T40	40-pin connector, under electronics box, in engine compartment
502	Screw connection 1 (30a), on relay plate
507	Screw connection (30), on fuse holder on battery
513	Screw connection 3 (30a), on relay plate
B368	Positive connection 19 (87a), in main wiring harness
*	is dropped in vehicles models with 180 A alternator
**	from November 2005
***	up to November 2005

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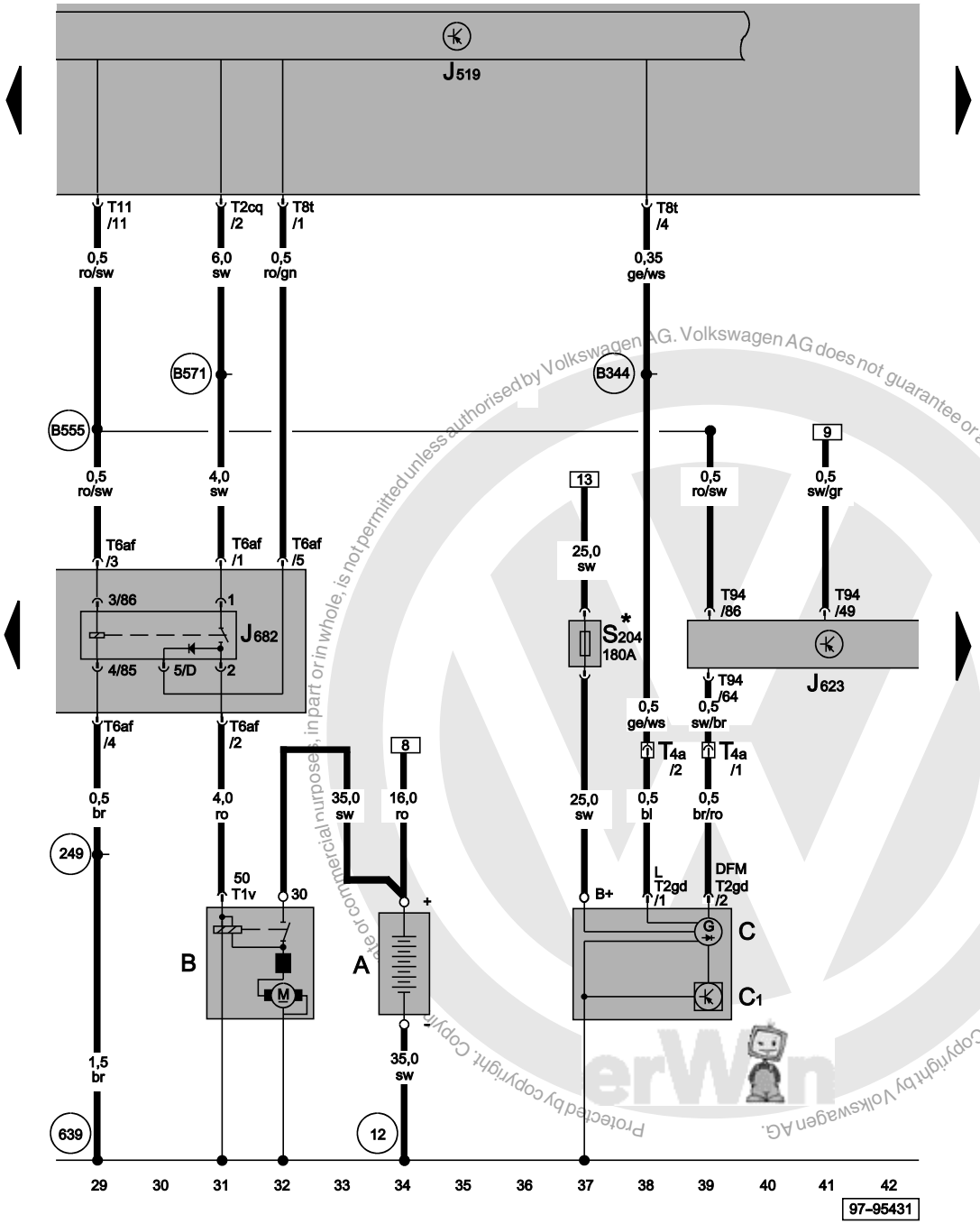


Electric fuel pump 2 relay, fuel pump relay

J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J519	Onboard supply control unit
SC34	Fuse 34 on fuse holder C
T10m	10-pin connector, on electronics box
T11	11-pin connector, black
B317	Positive connection 3 (30a), in main wiring harness
B368	Positive connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	only models with auxiliary heater

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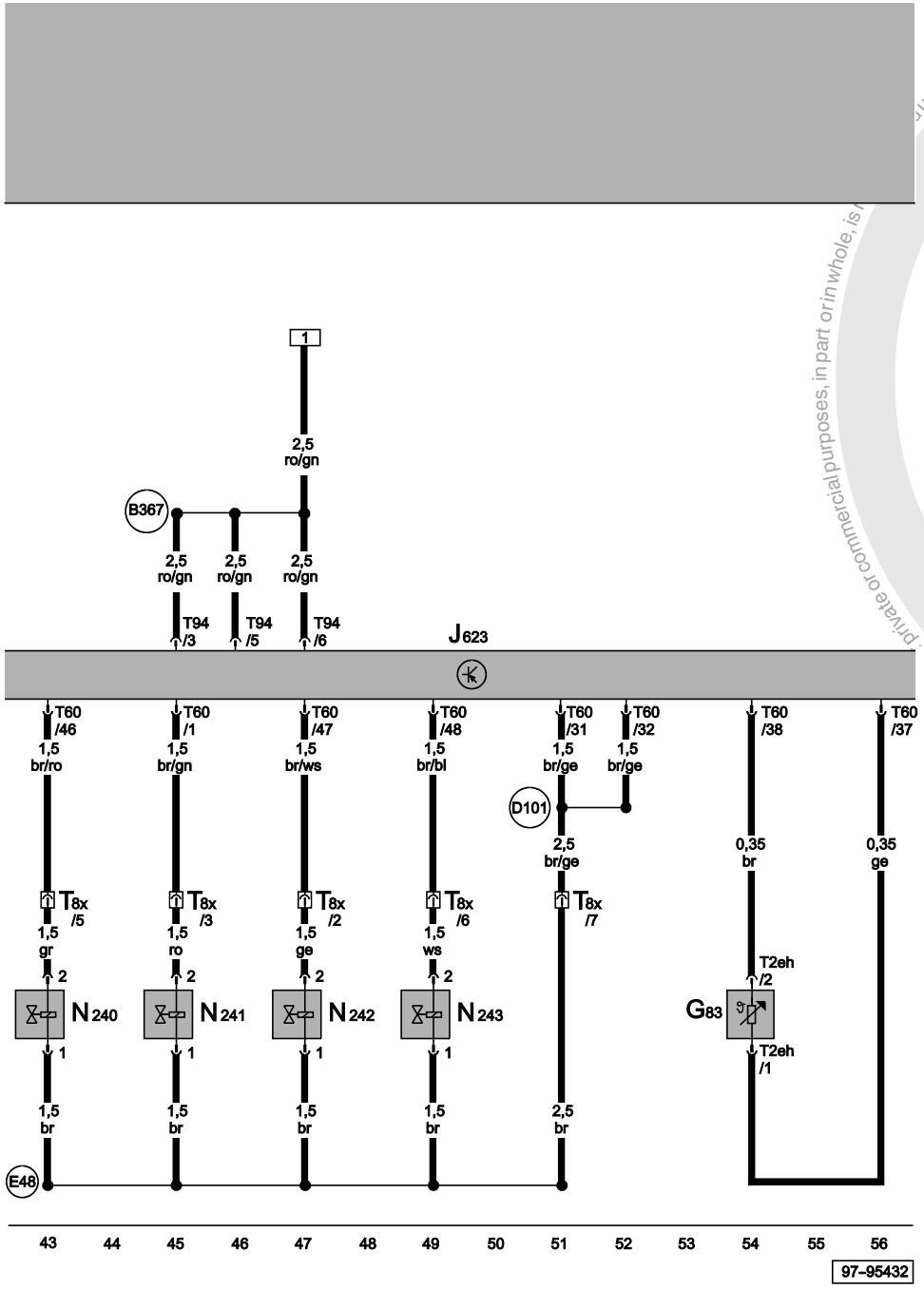


Terminals 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
S204	Fuse 1 (30)
T1v	Single connector
T2cq	2-pin connector, black
T2gd	2-pin connector
T4a	4-pin connector, near starter
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
T94	94-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	only models with 180 A alternator

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Engine control unit, radiator outlet coolant temperature sender, unit injector valves, No. 1 cyl. to No. 4

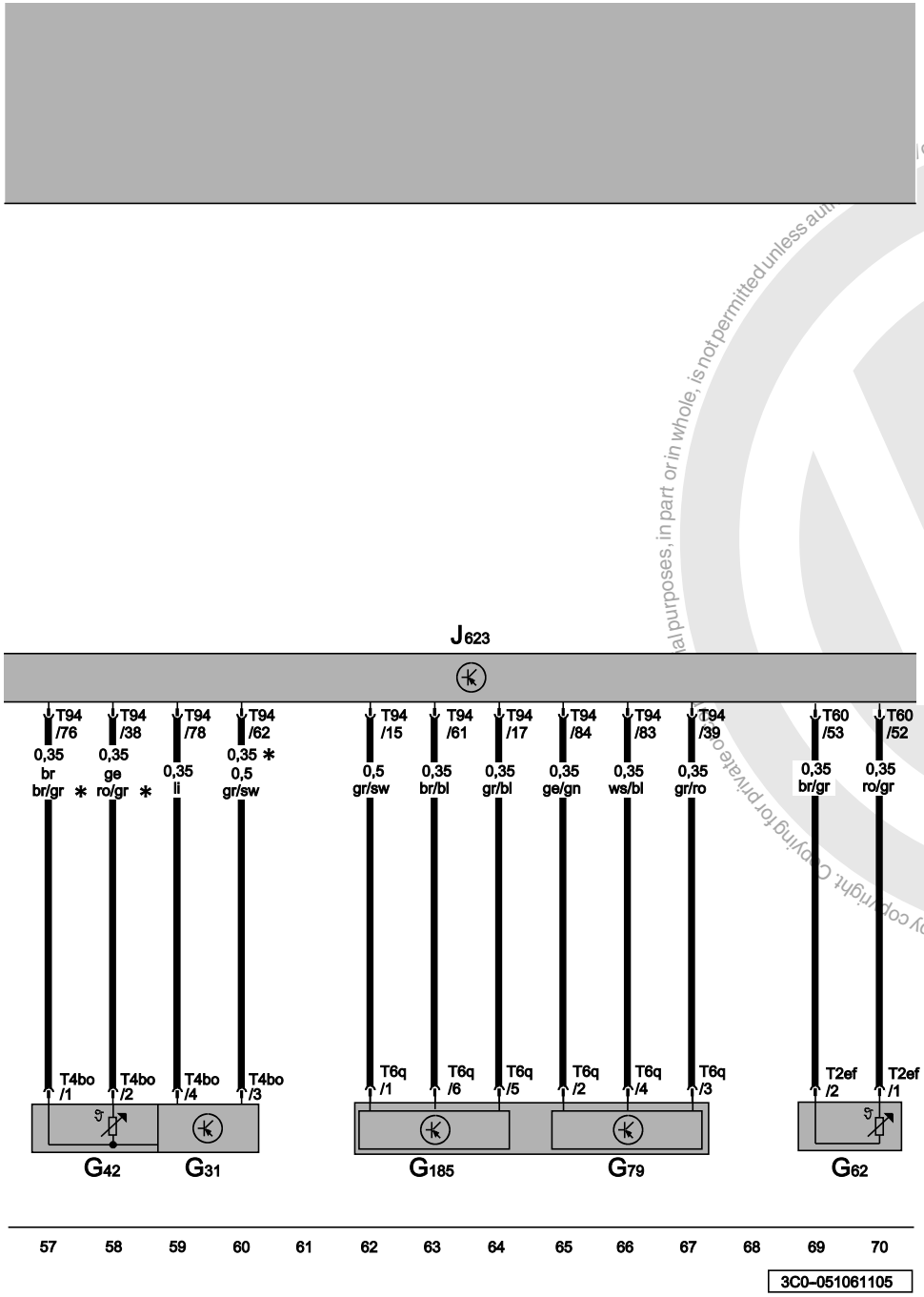
G83	Radiator outlet coolant temperature sender
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
T2eh	2-pin connector
T8x	8-pin connector, near injectors
T60	60-pin connector
T94	94-pin connector
B367	Positive connection 18 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

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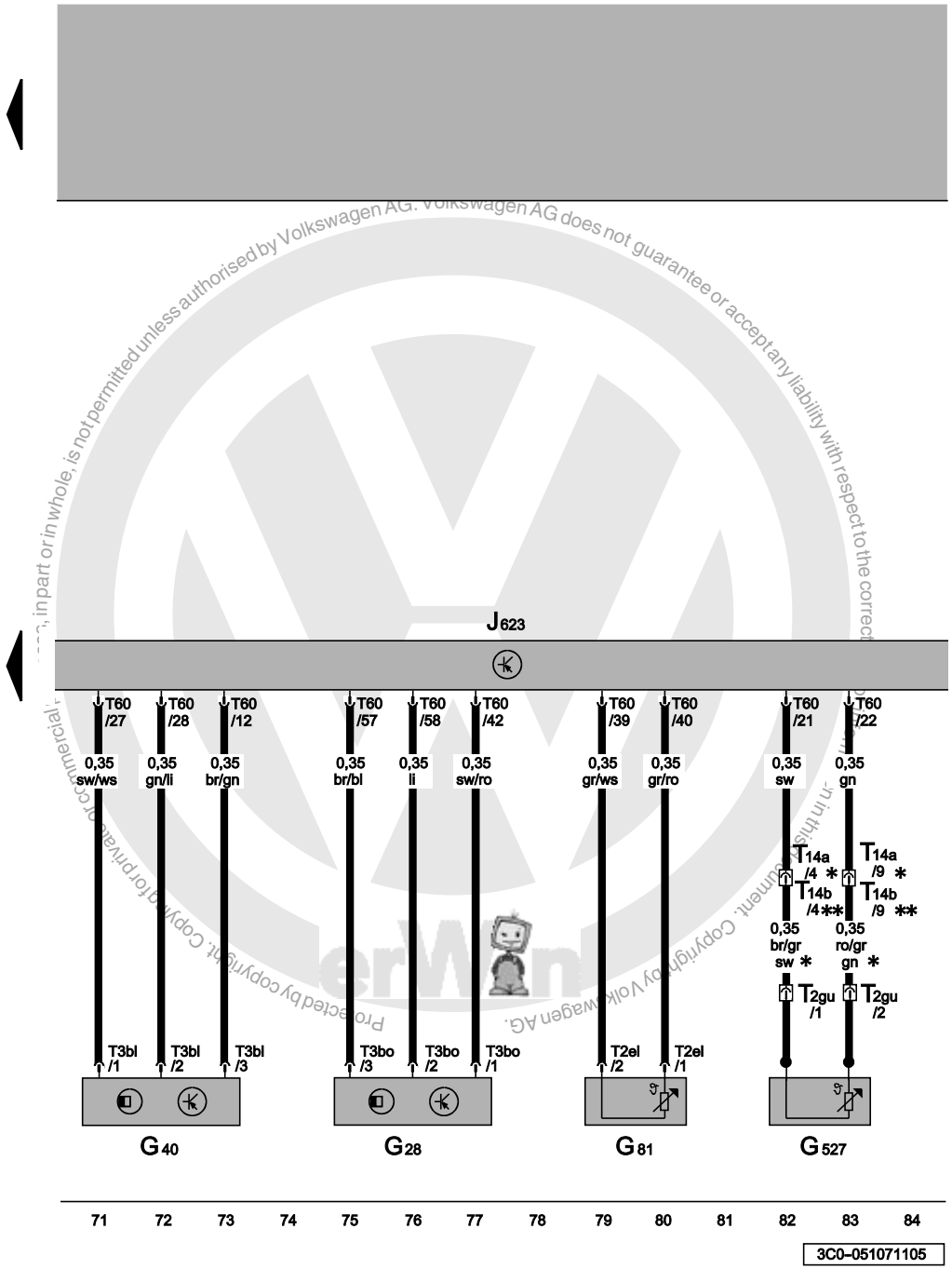
Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender 2, coolant temperature sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T2ef	2-pin connector
T4bo	4-pin connector
T6q	6-pin connector
T60	60-pin connector
T94	94-pin connector
*	from November 2005



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Engine control unit, engine speed sender, Hall sender, fuel temperature sender

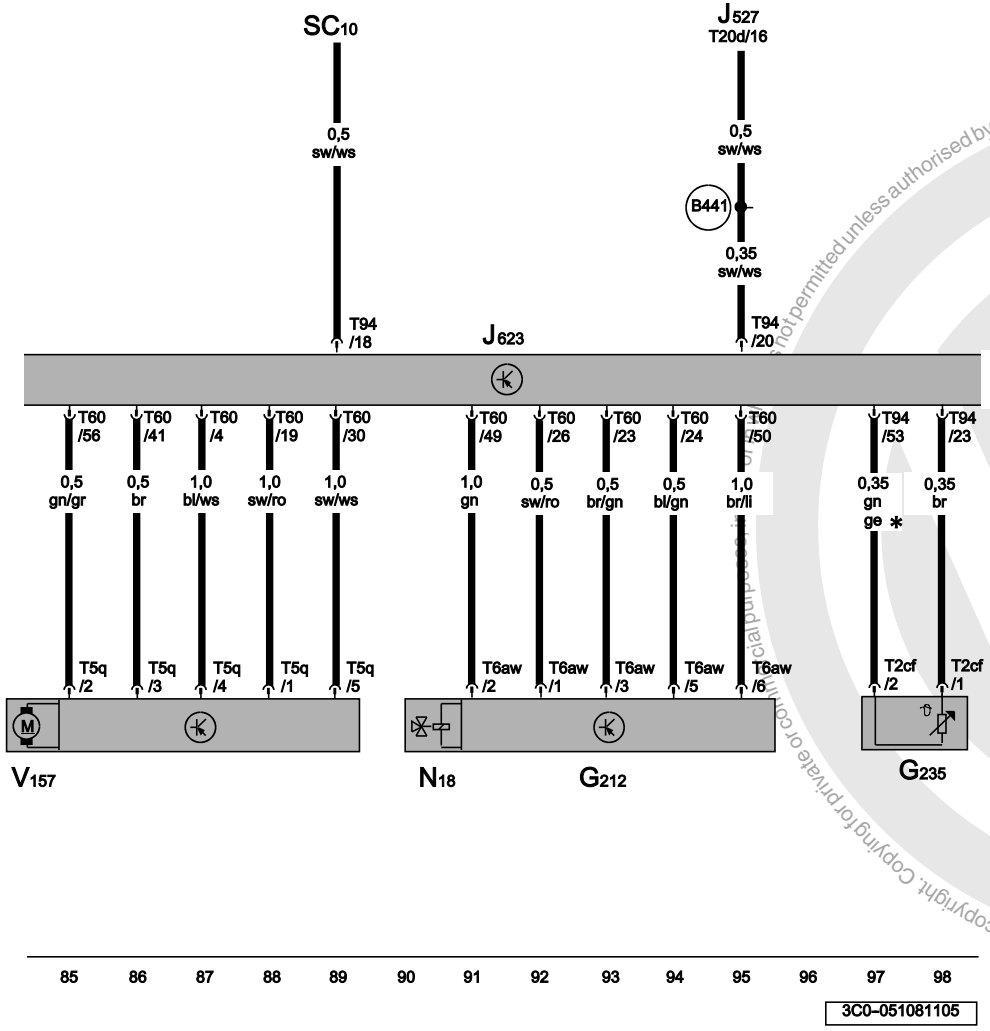
G28	Engine speed sender
G40	Hall sender
G81	Fuel temperature sender
G527	Temperature sender after particulate filter
J623	Engine control unit
T2el	2-pin connector
T2gu	2-pin connector
T3bl	3-pin connector, black
T3bo	3-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T14b	14-pin connector, coupling point 2 in left engine compartment
T60	60-pin connector
*	from November 2005
**	up to November 2005

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Engine control unit, intake manifold flap motor, exhaust gas recirculation potentiometer, exhaust gas recirculation valve, exhaust gas temperature sender 1

G212	Exhaust gas recirculation potentiometer
G235	Exhaust gas temperature sender 1
J527	Steering column electronics control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
SC10	Fuse 10 on fuse holder C
T2cf	2-pin connector
T5q	5-pin connector
T6aw	6-pin connector
T20d	20-pin connector
T60	60-pin connector
T94	94-pin connector
V157	Intake manifold flap motor
B441	Connection (CCS), in main wiring harness
*	from November 2005

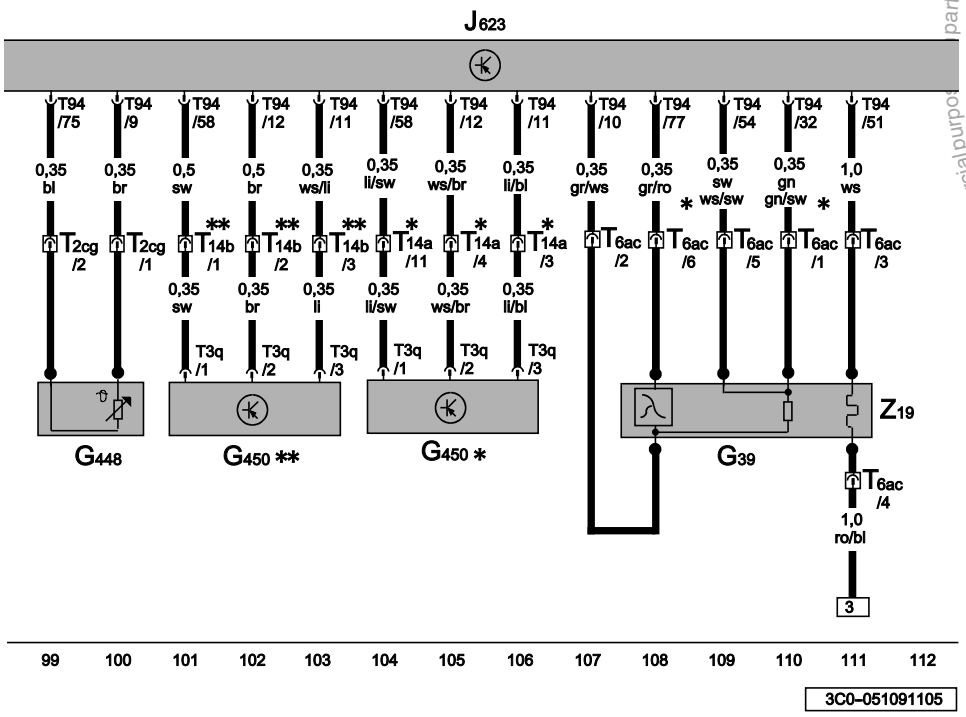


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Engine control unit, lambda probe, exhaust gas pressure sensor 1, bank 1 exhaust gas temperature sender -2-

G39	Lambda probe
G448	Bank 1 exhaust gas temperature sender 2
G450	Exhaust gas pressure sensor 1
J623	Engine control unit
T2cg	2-pin connector
T3q	3-pin connector
T6ac	6-pin connector, connector point lambda probe
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T14b	14-pin connector, coupling point 2 in left engine compartment
T94	94-pin connector
Z19	Lambda probe heater
*	from November 2005
**	up to November 2005

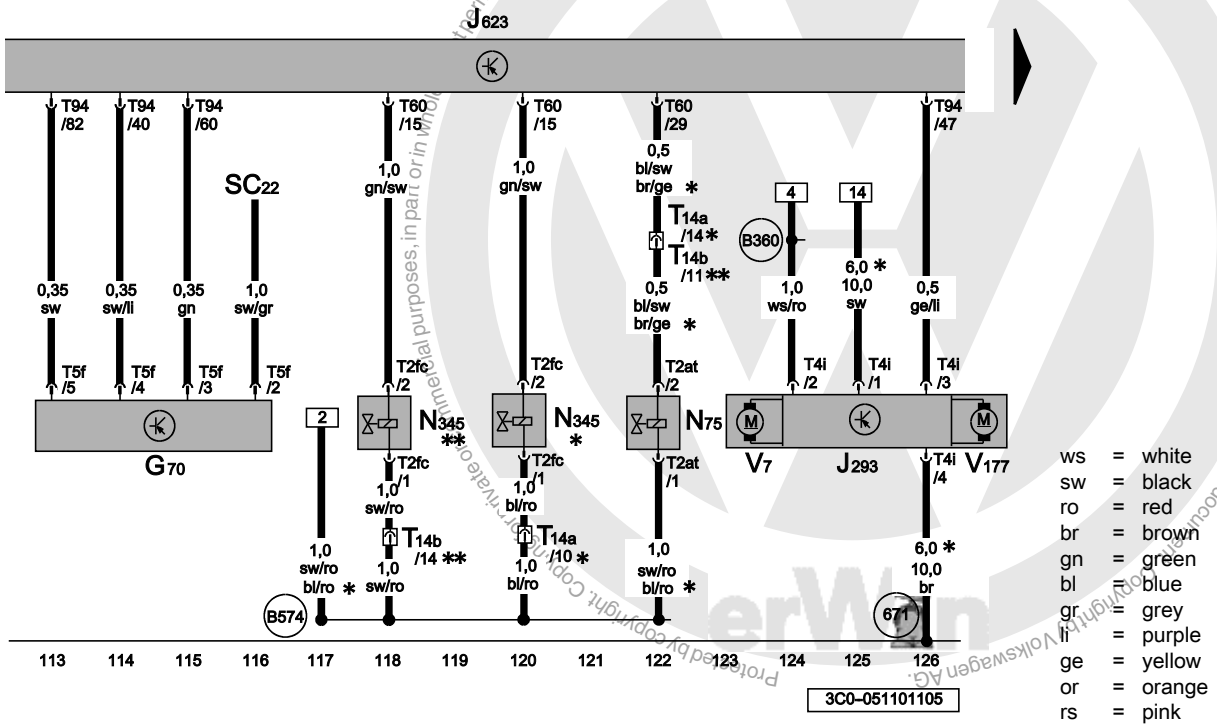


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Engine control unit, radiator fan control unit, air mass meter, charge pressure control solenoid valve

G70	Air mass meter
J293	Radiator fan control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler change-over valve
SC22	Fuse 22 on fuse holder C
T2at	2-pin connector
T2fc	2-pin connector
T4i	4-pin connector
T5f	5-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T14b	14-pin connector, coupling point 2 in left engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B360	Positive connection 11 (87a), in main wiring harness
B574	Positive connection 20 (87a), in main wiring harness
*	from November 2005
**	up to November 2005

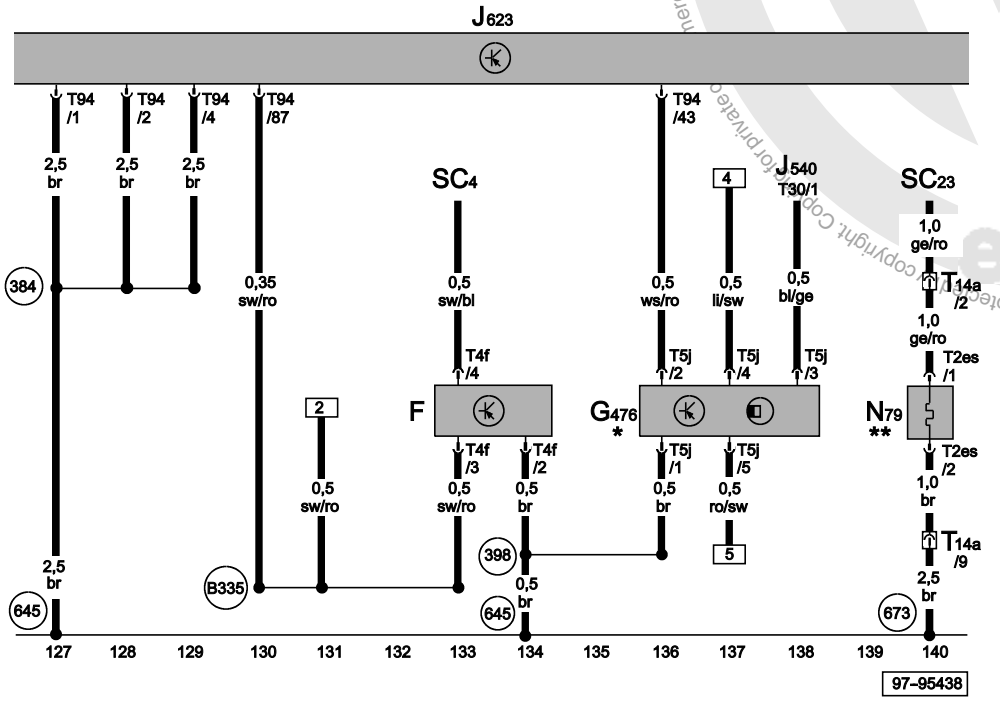


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Engine control unit, clutch position sender, brake light switch, heater element for crankcase breather

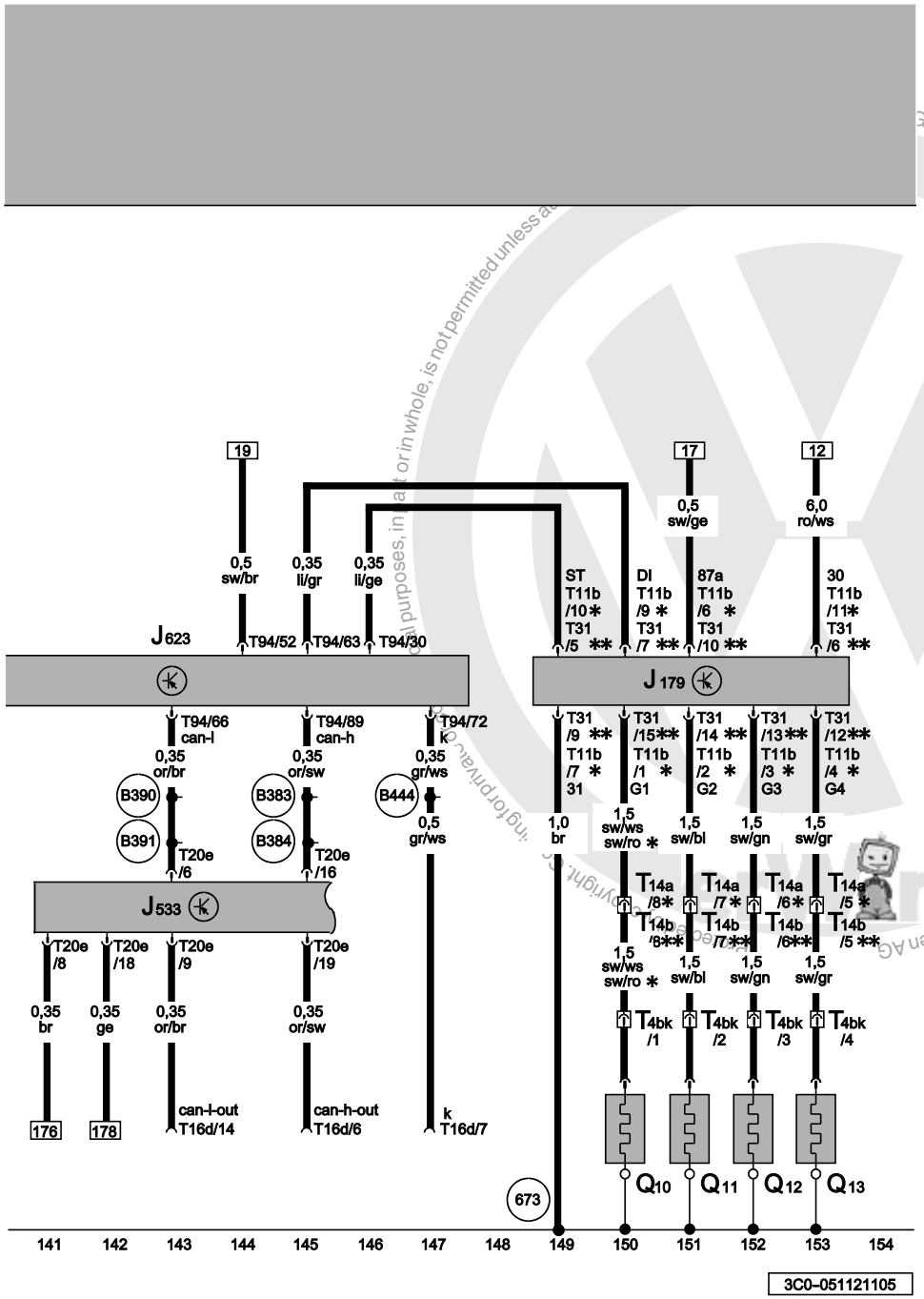
F	Brake light switch
G476	Clutch position sender
J540	Electric park and handbrake control unit
J623	Engine control unit
N79	Heater element for crankcase breather
SC4	Fuse 4 on fuse holder C
SC23	Fuse 23 on fuse holder C
T2es	2-pin connector
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T30	30-pin connector
T94	94-pin connector
384	Earth connection 19, in main wiring harness
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
673	Earth point 3, on front of left longitudinal member
B335	Connection 1 (54), in main wiring harness
*	only models with manual gearbox
**	models for cold countries only



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Engine control unit, automatic glow period control unit, glow plugs 1 to 4, data bus diagnostic interface, self-diagnosis connection



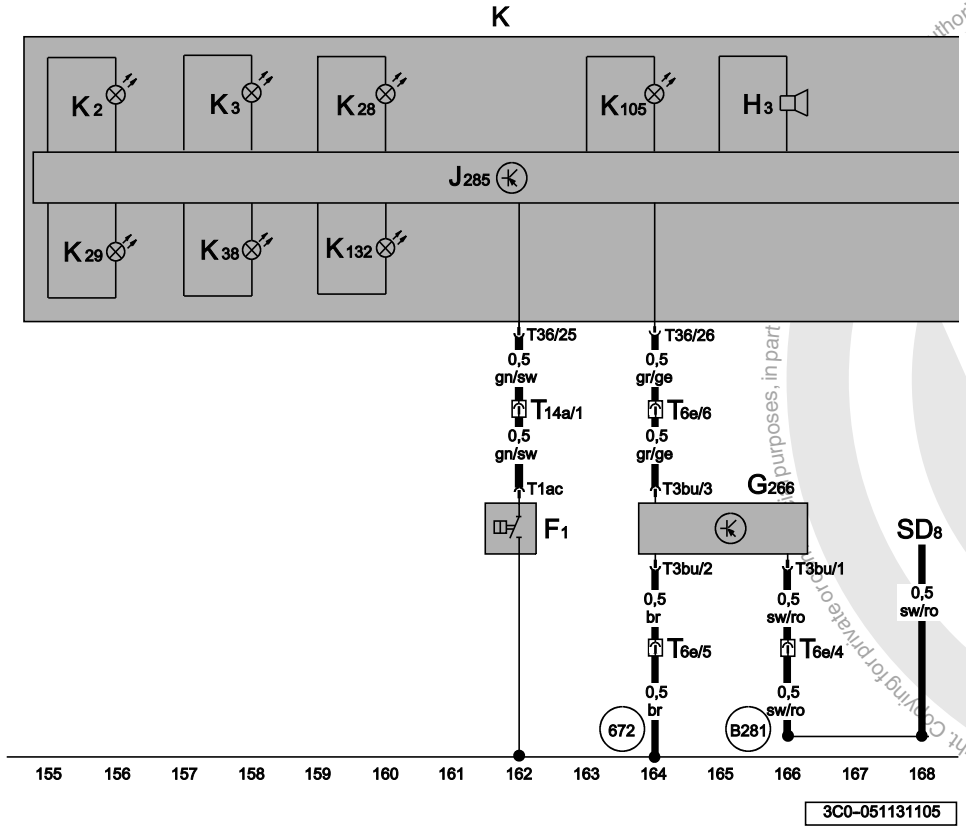
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J179	Automatic glow period control unit
J533	Data bus diagnostic interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T4bk	4-pin connector, coupling point glow plugs
T11b	11-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T14b	14-pin connector, coupling point 2 in left engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T31	31-pin connector
T94	94-pin connector
673	Earth point 3, on front of left longitudinal member
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	from November 2005
**	up to November 2005

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Dash panel insert, warning lamps, oil pressure switch, buzzer or gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness

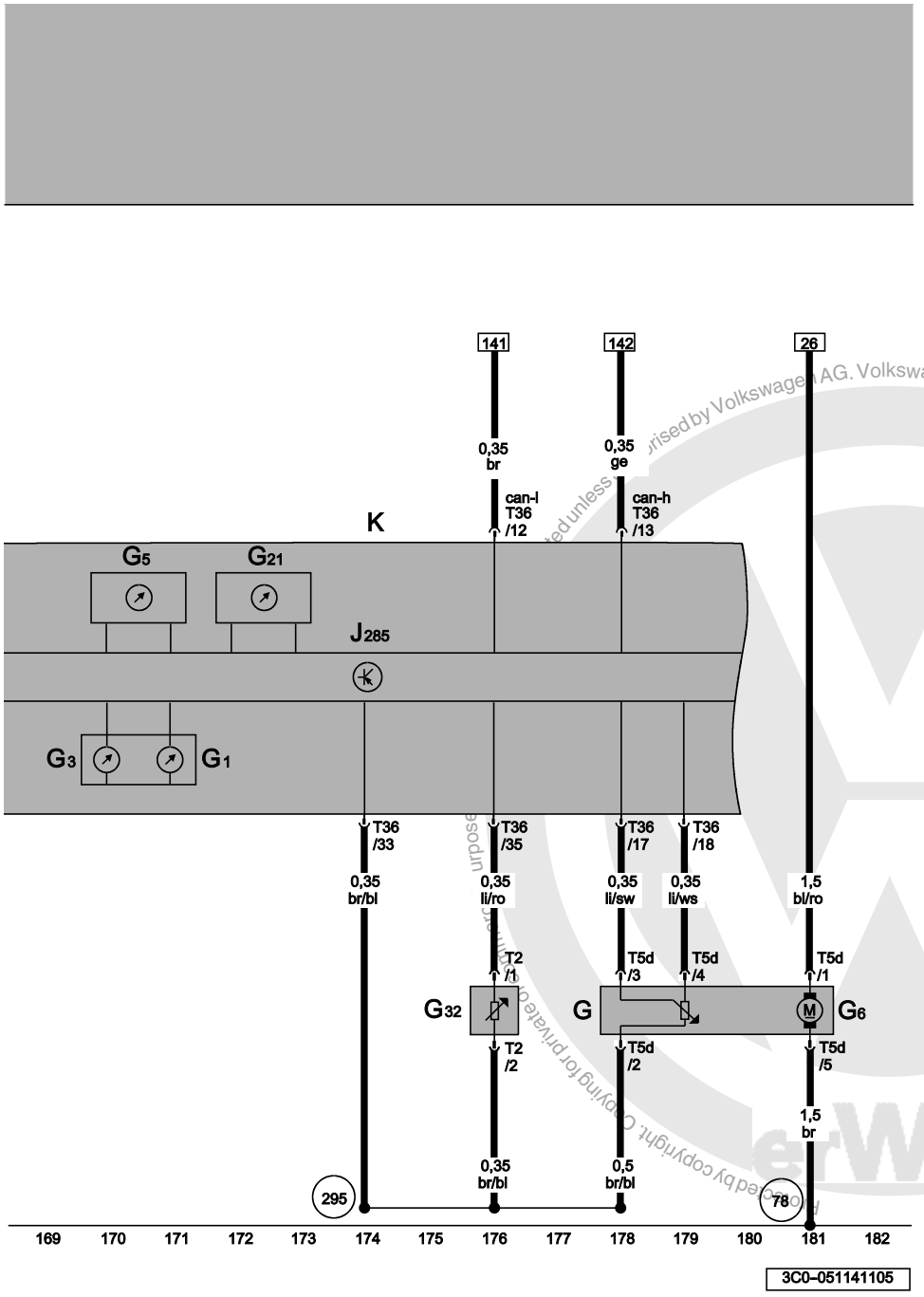


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ge	=	yellow
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rs	=	pink

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Dash panel insert, rev. counter, speedometer, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
K	Dash panel insert
T2	2-pin connector
T5d	5-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Fuse concept, 1 battery, petrol engine

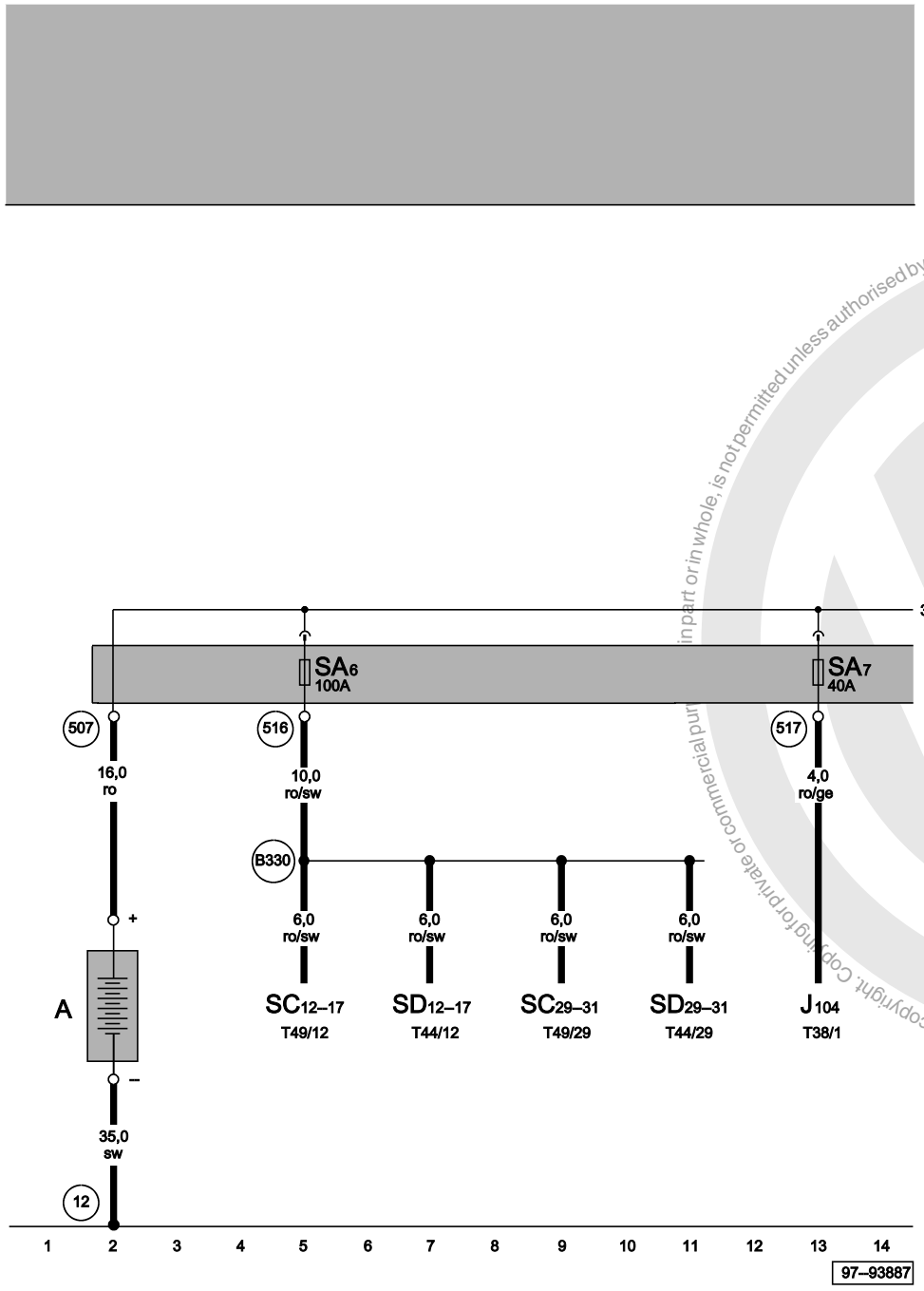
⇒ **Fuse SA, in E-box**
⇒ **Fuse SB, in E-box**
From November 2004

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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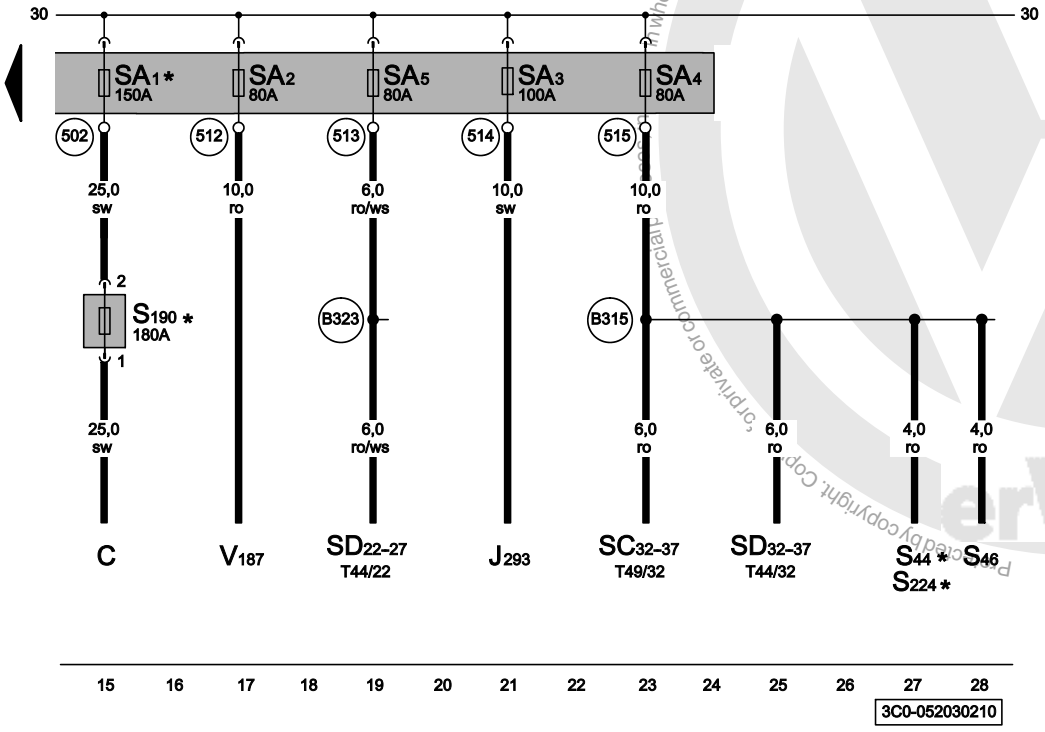
Battery, SA-fuses

A	Battery
J104	ABS control unit
SA6	Fuse 6 on fuse holder A
SA7	Fuse 7 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T38	38-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
12	Earth point, on left in engine compartment
507	Threaded connection (30), on battery fuse holder
516	Threaded connection 6 (30a) on relay plate
517	Threaded connection 7 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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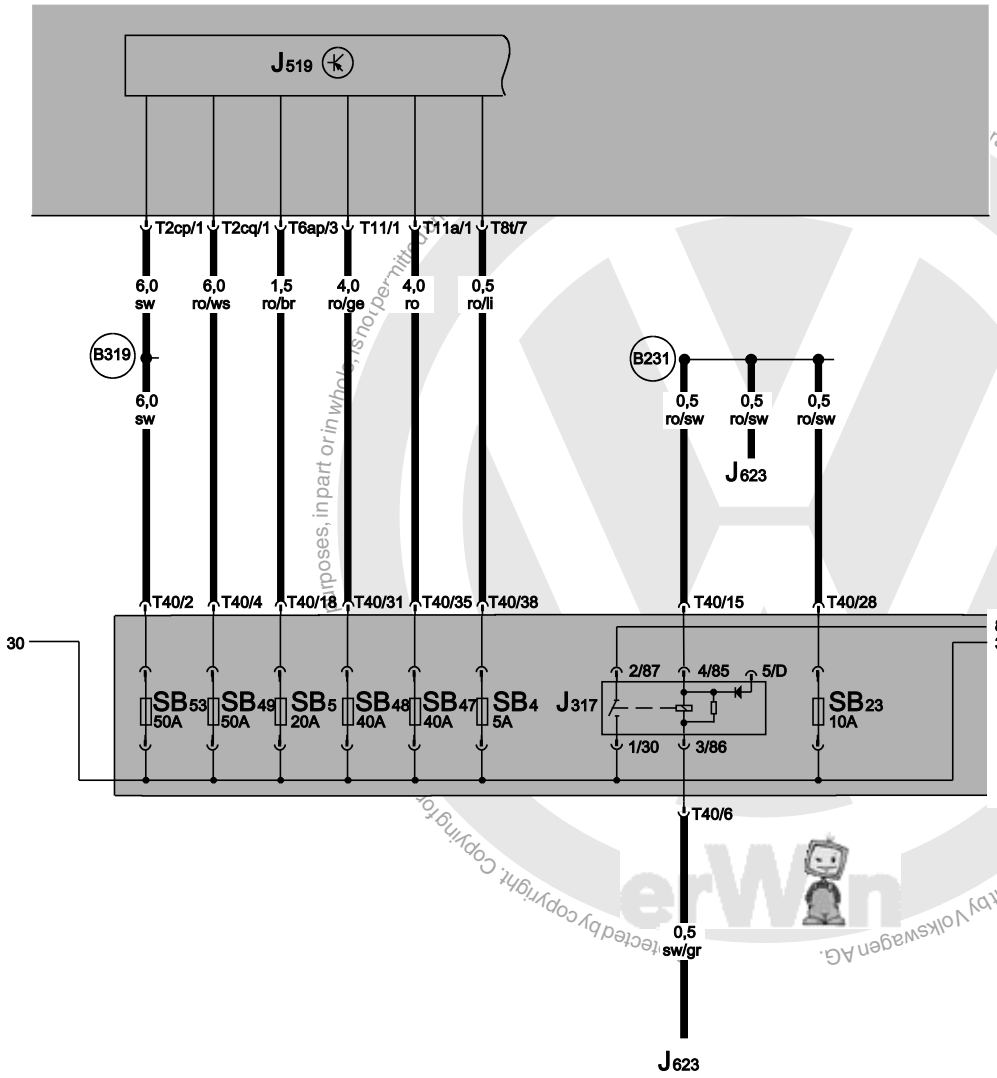


SA fuses

C	Alternator
J293	Radiator fan control unit
J500	Power steering control unit
S44	Driver seat adjustment thermal fuse 1, on left under dash panel
S46	Front passenger seat adjustment thermal fuse 1
S190	Terminal 30 voltage supply fuse
S224	Fuse in fuse holder on left under dash panel
SA1	Fuse 1 on fuse holder A
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
502	Threaded connection 1 (30a) on relay plate
512	Threaded connection 2 (30a) on relay plate
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
515	Threaded connection 5 (30a) on relay plate
B315	Connection 1 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness
*	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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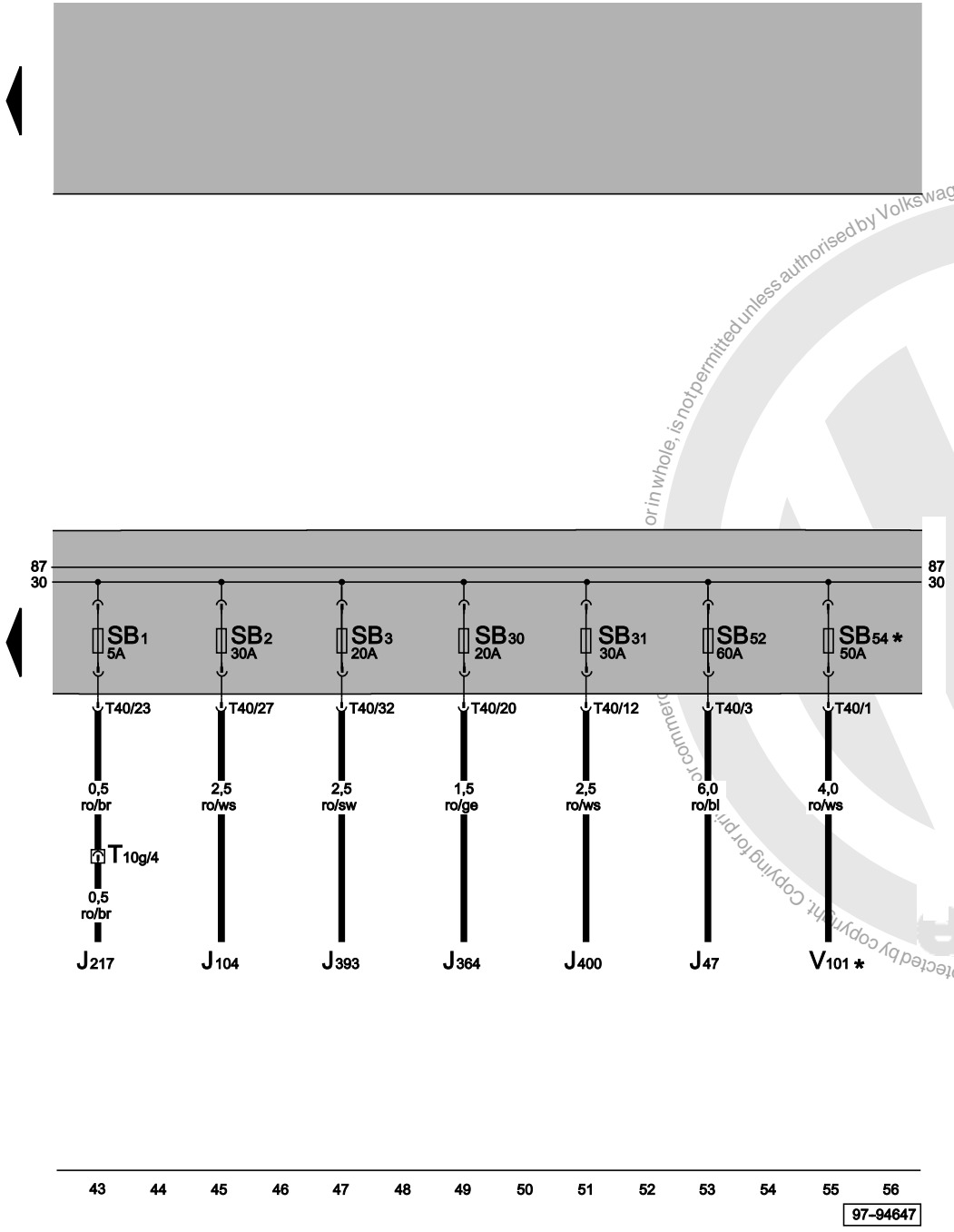


Onboard supply control unit, terminal 30 voltage supply relay

J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
J623	Engine control unit
SB4	Fuse 4 on fuse holder B
SB5	Fuse 5 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB47	Fuse 47 on fuse holder B
SB48	Fuse 48 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T6ap	6-pin connector, black
T8t	8-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T40	40-pin connector, under E-box, in engine compartment
B231	Positive connection 5 (30a), in interior wiring harness
B319	Connection 5 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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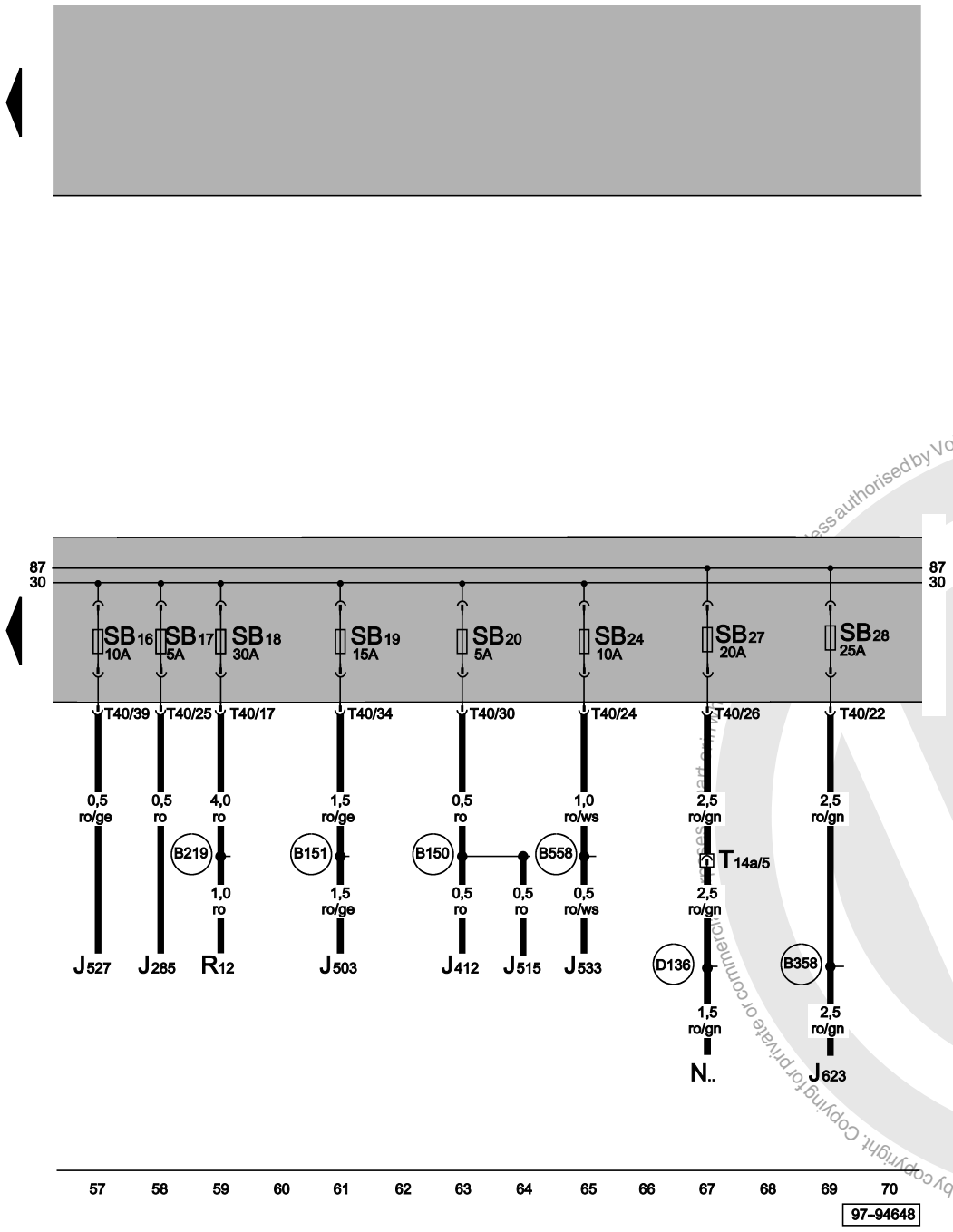


SB fuses

J47	Heated windscreen relay
J104	ABS control unit
J217	Automatic gearbox control unit
J364	Auxiliary heater control unit
J393	Convenience system central control unit
J400	Wiper motor control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
SB3	Fuse 3 on fuse holder B
SB30	Fuse 30 on fuse holder B
SB31	Fuse 31 on fuse holder B
SB52	Fuse 52 on fuse holder B
SB54	Fuse 54 on fuse holder B
T10g	10-pin connector, black, coupling point for gearbox prewiring
T40	40-pin connector, under E-box, in engine compartment
V101	Secondary air pump motor
*	Only models with engine codes BSE, BSF

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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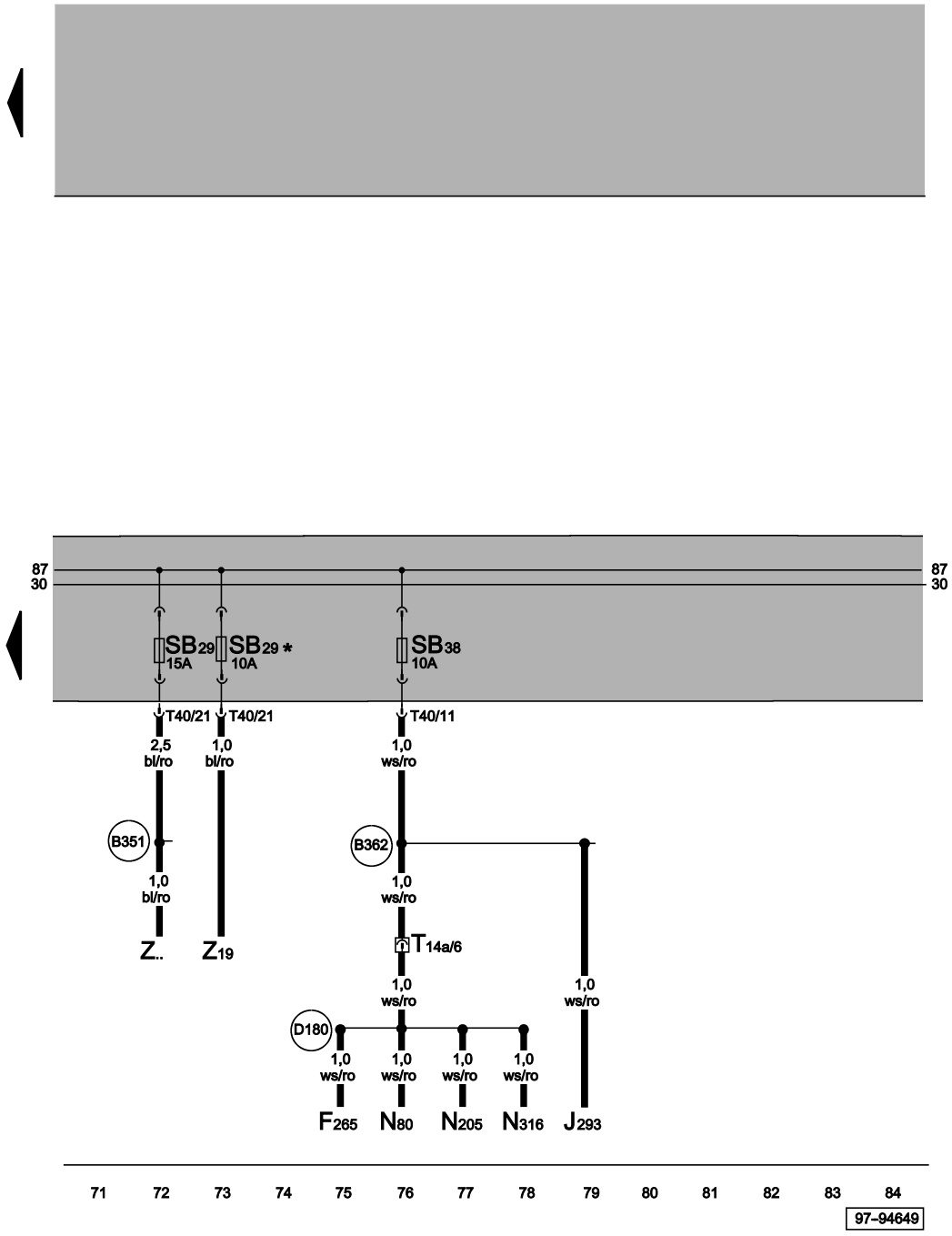


SB fuses

J285	Control unit in dash panel insert
J412	Control unit for mobile telephone operating electronics
J503	Control unit with display for radio and navigation
J515	Aerial selection control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
J623	Engine control unit
N	Ignition coils with final output stages for cylinders 1-4
R12	Amplifier
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB27	Fuse 27 on fuse holder B
SB28	Fuse 28 on fuse holder B
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T40	40-pin connector, under E-box, in engine compartment
B150	Positive connection 2 (30a), in interior wiring harness
B151	Positive connection 3 (30a), in interior wiring harness
B219	Positive connection 4 (30a), in interior wiring harness
B358	Connection 9 (87a), in main wiring harness
B558	Connection 22 (30a), in main wiring harness
D136	Positive connection 2 (15a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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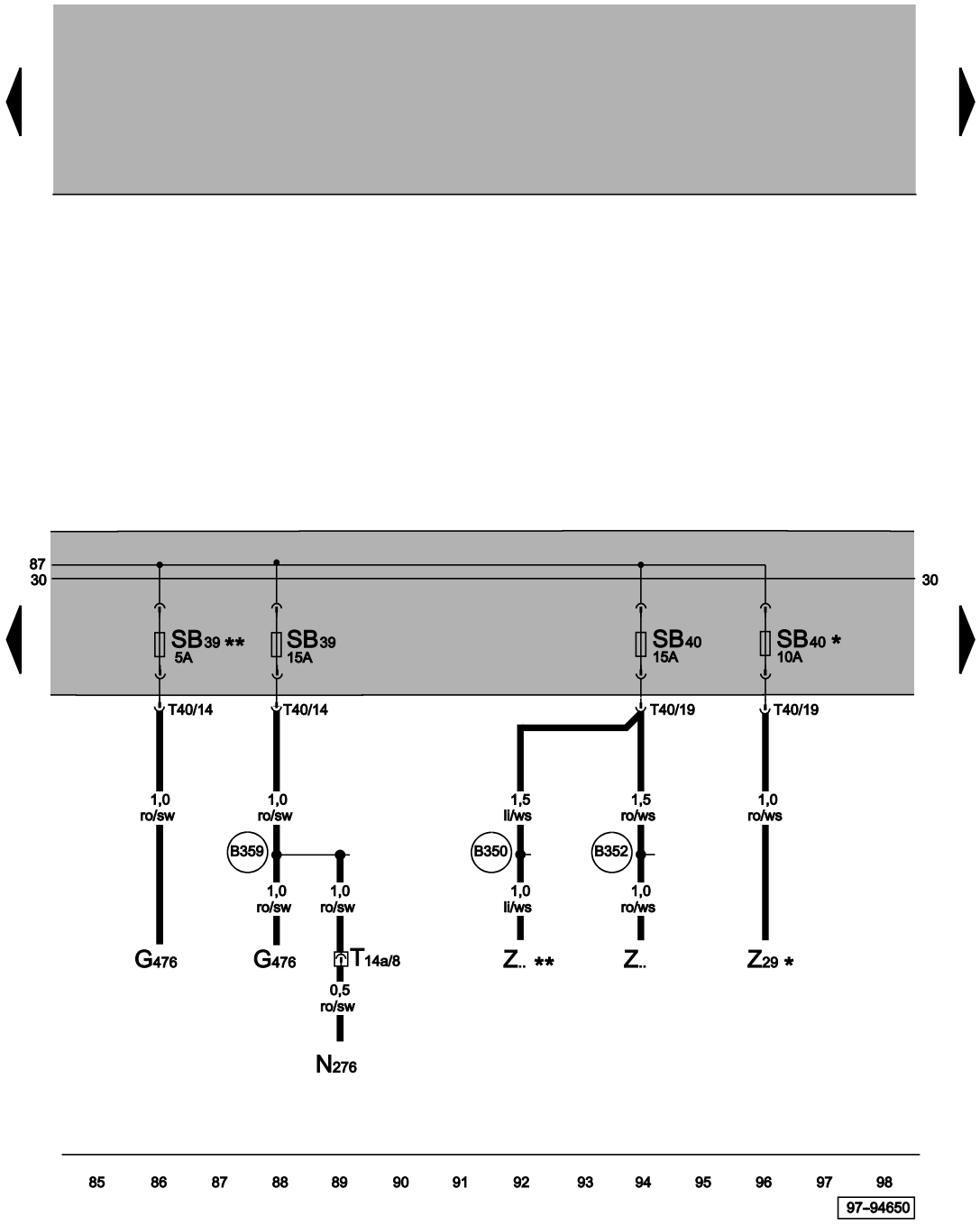


SB fuses

F265	Map-controlled engine cooling system thermostat
J293	Radiator fan control unit
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N316	Intake manifold flap valve
SB29	Fuse 29 on fuse holder B
SB38	Fuse 38 on fuse holder B
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40	40-pin connector, under E-box, in engine compartment
Z	Lambda probe heater
Z19	Lambda probe heater
B351	Connection 2 (87a), in main wiring harness
B362	Connection 13 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness
*	Only models with engine code BLY

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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SB fuses

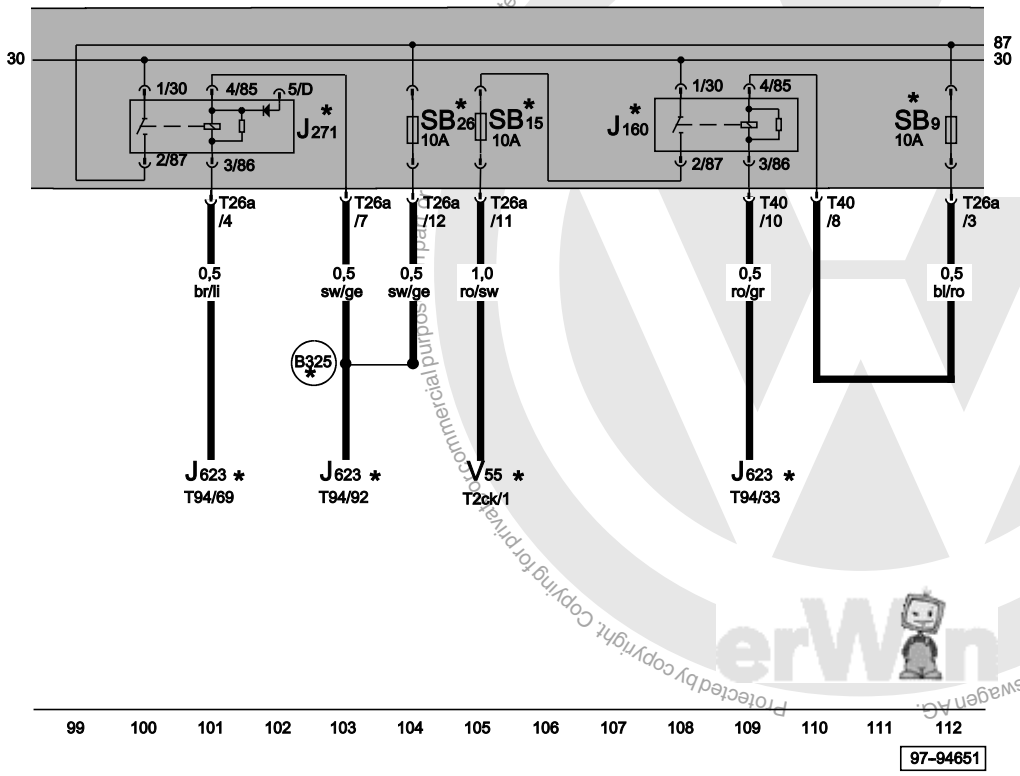
G476	Clutch position sender
N276	Solenoid valve
SB39	Fuse 39 on fuse holder B
SB40	Fuse 40 on fuse holder B
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40	40-pin connector, under E-box, in engine compartment
Z	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
B350	Connection 1 (87a), in main wiring harness
B352	Connection 3 (87a), in main wiring harness
B359	Connection 10 (87a), in main wiring harness
*	Only models with engine code BLY
**	Only models with engine codes BSE, BSF

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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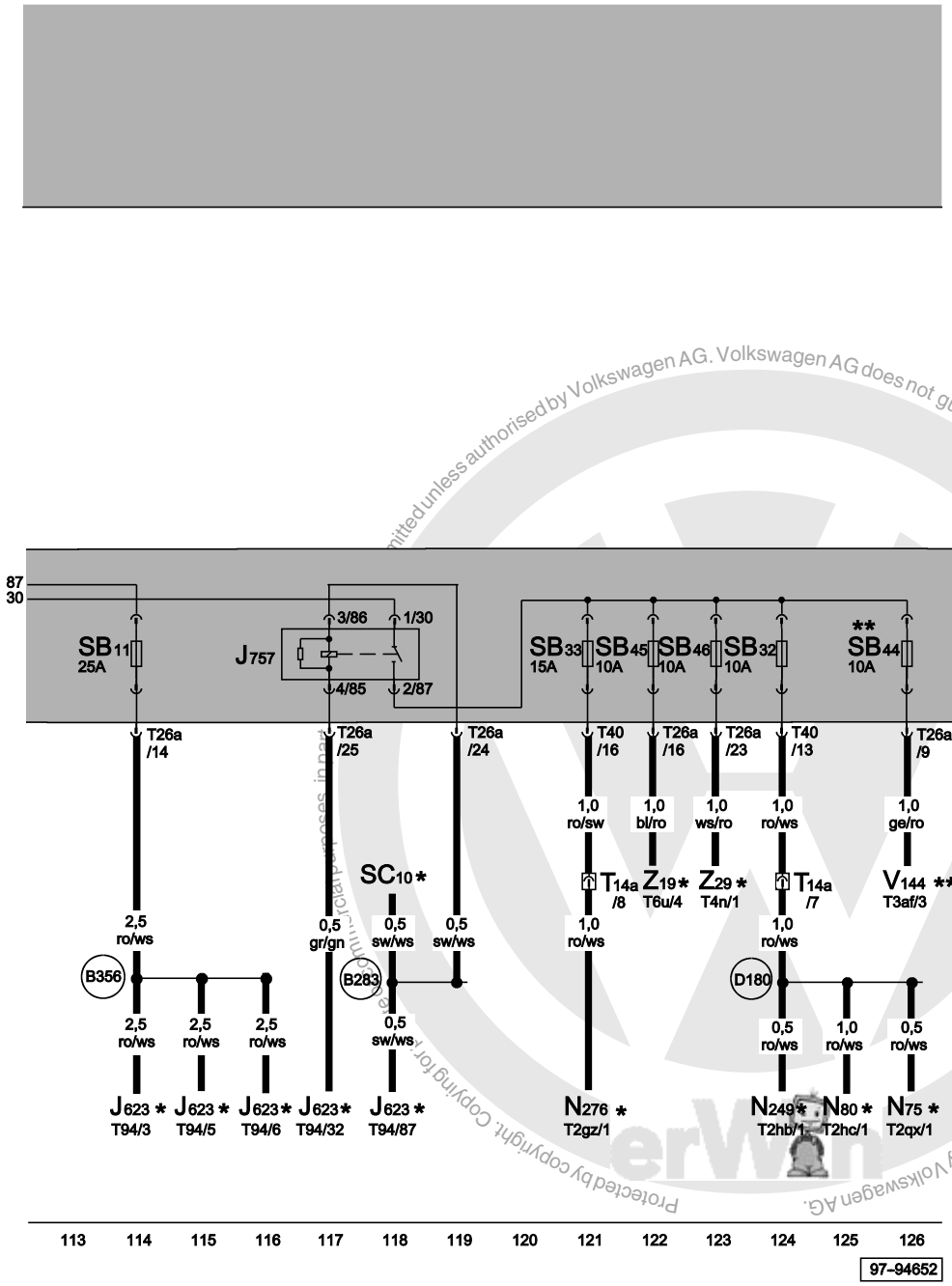
Motronic current supply relay, circulation pump relay, SB-fuses

J160	Circulation pump relay
J271	Motronic current supply relay
J623	Engine control unit
SB9	Fuse 9 on fuse holder B
SB15	Fuse 15 on fuse holder B
SB26	Fuse 26 on fuse holder B
T2ck	2-pin connector
T26a	26-pin connector, on E-box, in engine compartment
T40	40-pin connector, under E-box, in engine compartment
T94	94-pin connector
V55	Circulation pump
B325	Connection 11 (30a), in main wiring harness
*	Only models with engine codes AXX and BPY



ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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SB Fuses, engine component current supply relay

J623	Engine control unit
J757	Engine component current supply relay
N75	Charge pressure control solenoid valve
N80	Activated charcoal filter solenoid valve 1
N249	Turbocharger air recirculation valve
N276	Fuel pressure regulating valve
SB11	Fuse 11 on fuse holder B
SB32	Fuse 32 on fuse holder B
SB33	Fuse 33 on fuse holder B
SB44	Fuse 44 on fuse holder B
SB45	Fuse 45 on fuse holder B
SB46	Fuse 46 on fuse holder B
SC10	Fuse 10 on fuse holder B
T2gz	2-pin connector
T2hb	2-pin connector
T2hc	2-pin connector
T2qx	2-pin connector
T3af	3-pin connector
T4n	4-pin connector
T6u	6-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector, on E-box
T40	40-pin connector, under E-box, in engine compartment
T94	94-pin connector
V144	Fuel system diagnostic pump
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
B283	Connection 7 (15a), in main wiring harness
B356	Connection 7 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness
*	Only models with engine codes AXX and BPY
**	Only models with engine code BPY

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Fuse concept, 1 battery, diesel engine

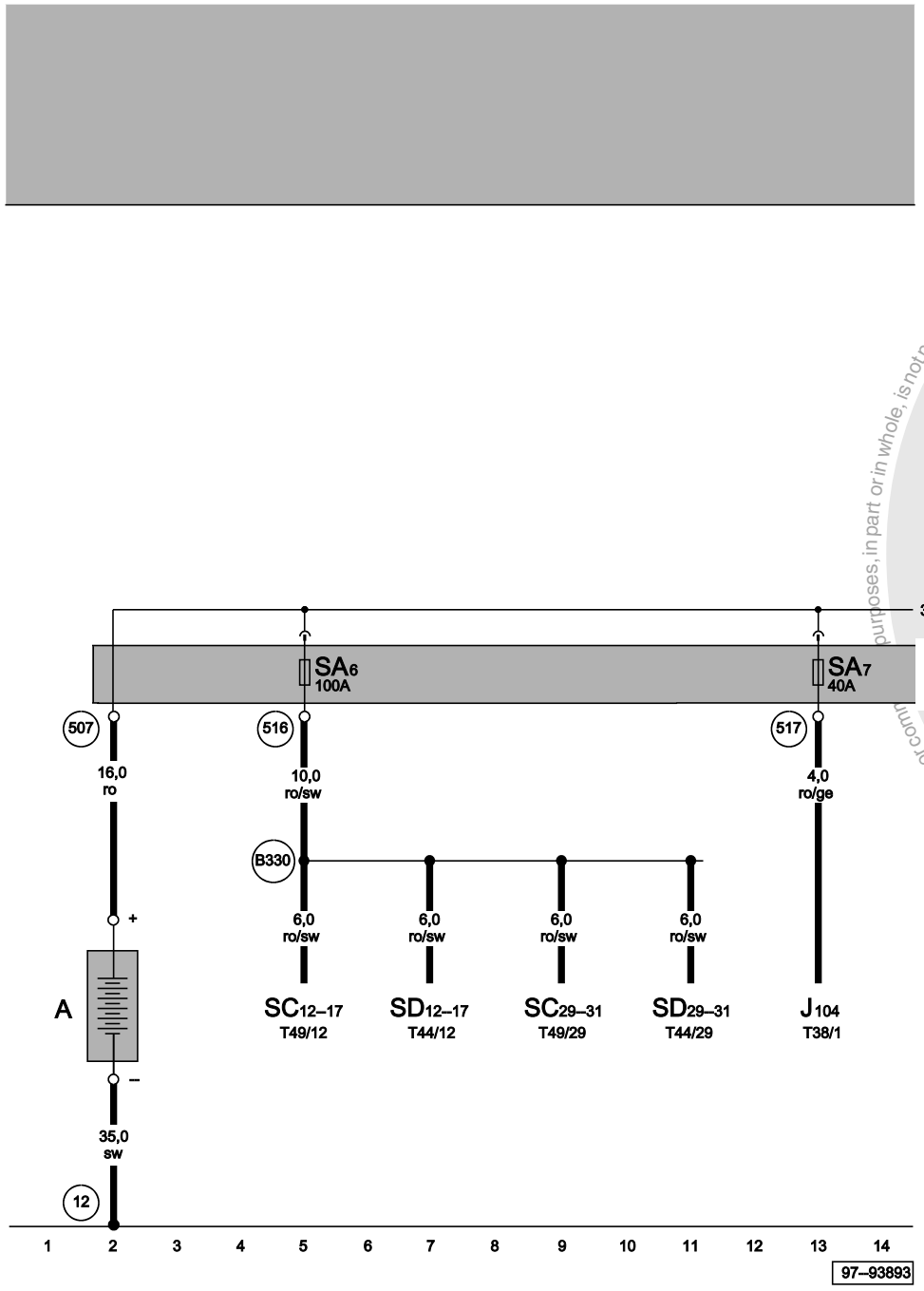
⇒ **Fuse SA, in E-box**
⇒ **Fuse SB, in E-box**
From November 2004

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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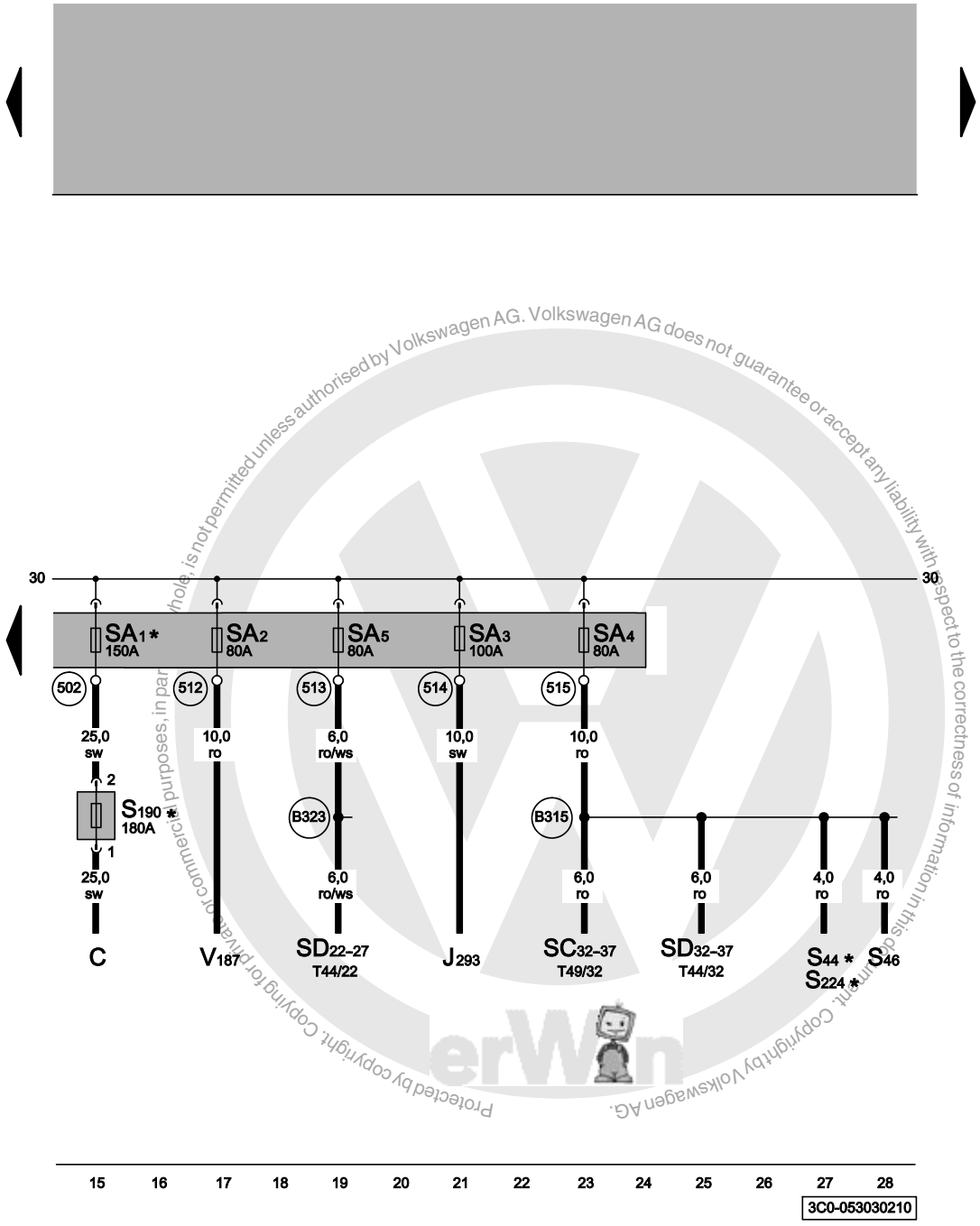


Battery, SA-fuses

A	Battery
J104	ABS control unit
SA6	Fuse 6 on fuse holder A
SA7	Fuse 7 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T38	38-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
12	Earth point, on left in engine compartment
507	Threaded connection (30), on battery fuse holder
516	Threaded connection 6 (30a) on relay plate
517	Threaded connection 7 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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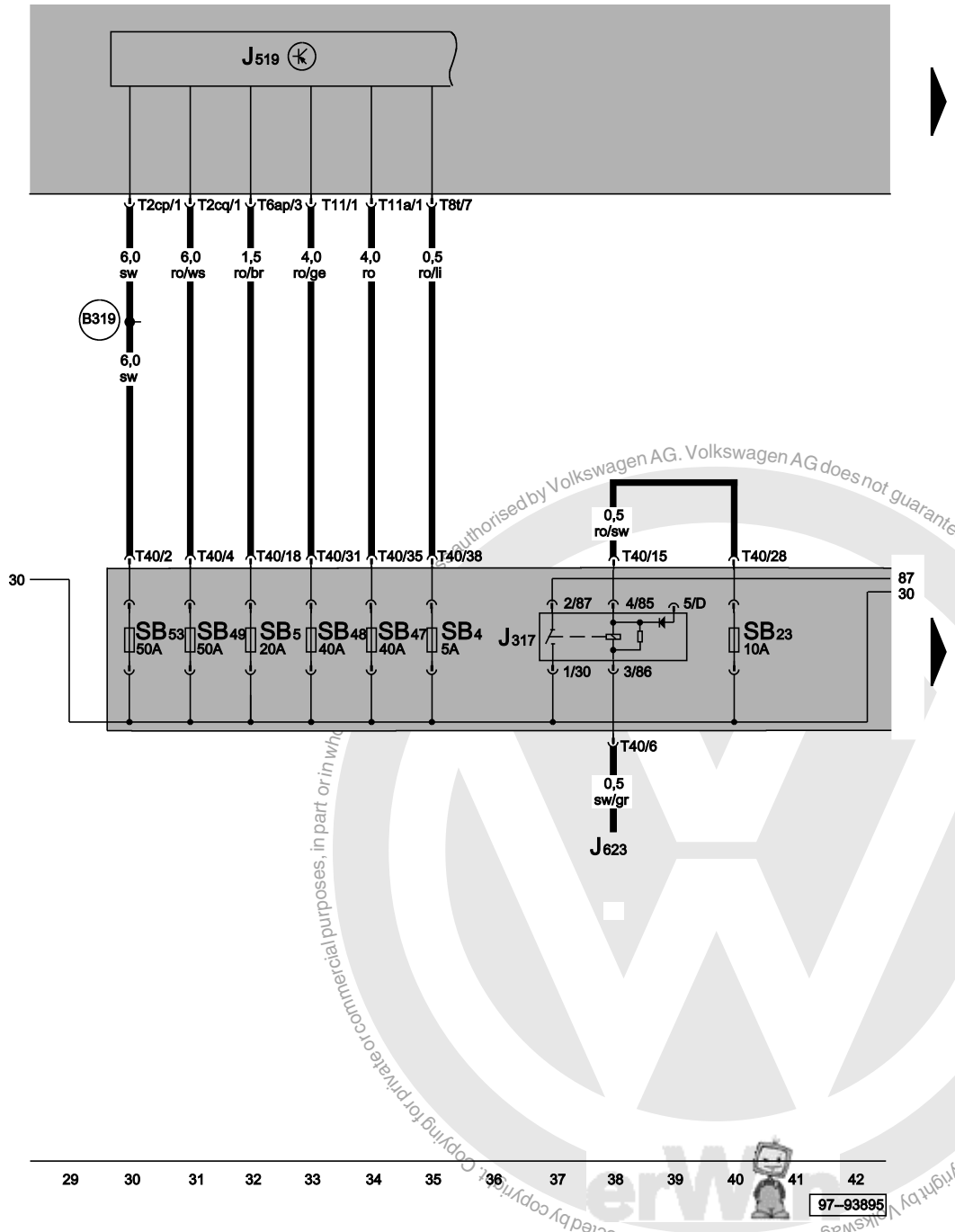


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SA fuses

C	Alternator
J293	Radiator fan control unit
J500	Power steering control unit
S44	Driver seat adjustment thermal fuse 1
S46	Front passenger seat adjustment thermal fuse 1
S190	Terminal 30 voltage supply fuse
S224	Fuse in fuse holder on left under dash panel
SA1	Fuse 1 on fuse holder A
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
502	Threaded connection 1 (30a) on relay plate
512	Threaded connection 2 (30a) on relay plate
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
515	Threaded connection 5 (30a) on relay plate
B315	Connection 1 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness
*	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

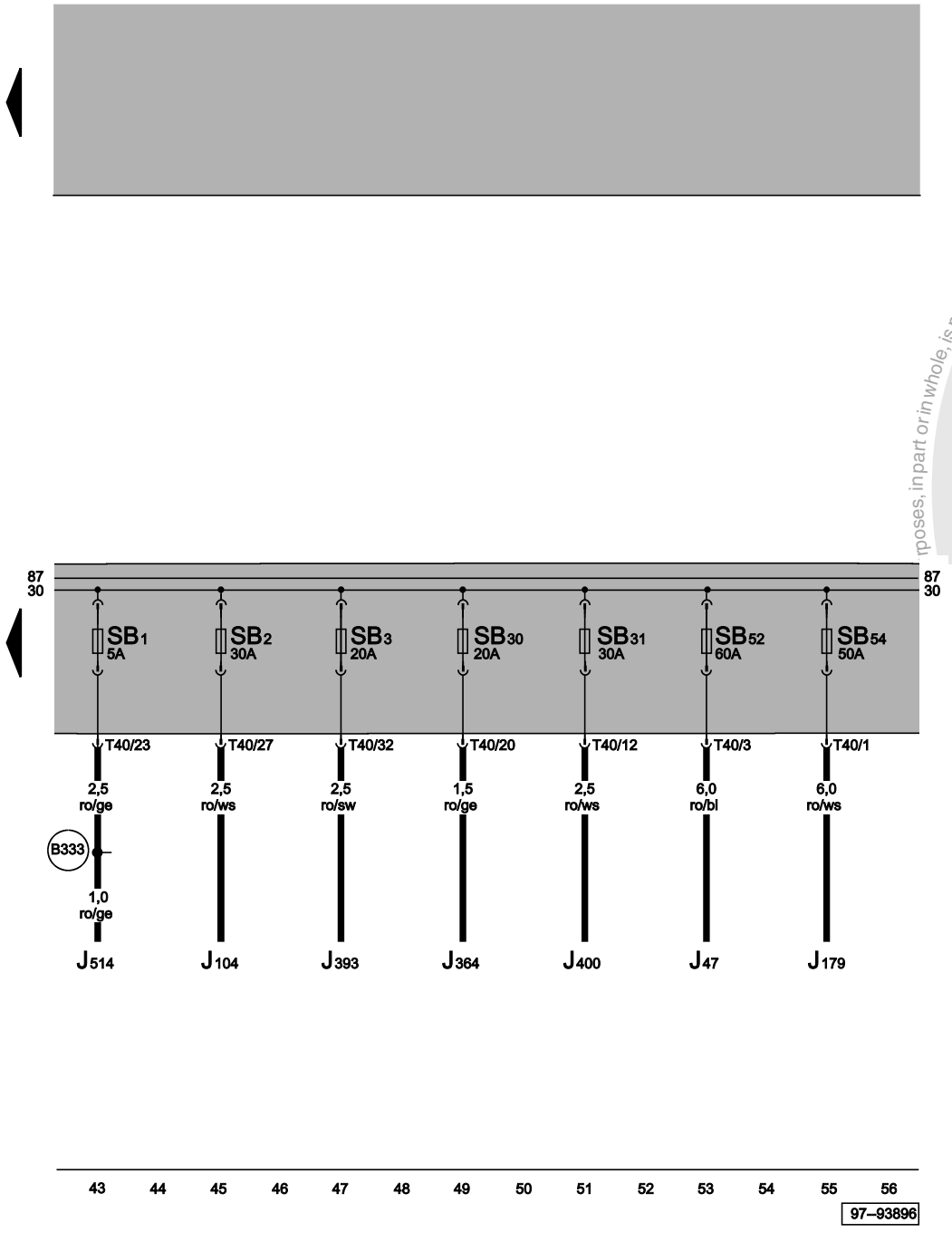


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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Terminal 30 voltage supply relay, onboard supply control unit

J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
J623	Engine control unit
SB4	Fuse 4 on fuse holder B
SB5	Fuse 5 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB47	Fuse 47 on fuse holder B
SB48	Fuse 48 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T6ap	6-pin connector, black
T8t	8-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T40	40-pin connector, under E-box, in engine compartment
B319	Connection 5 (30a), in main wiring harness

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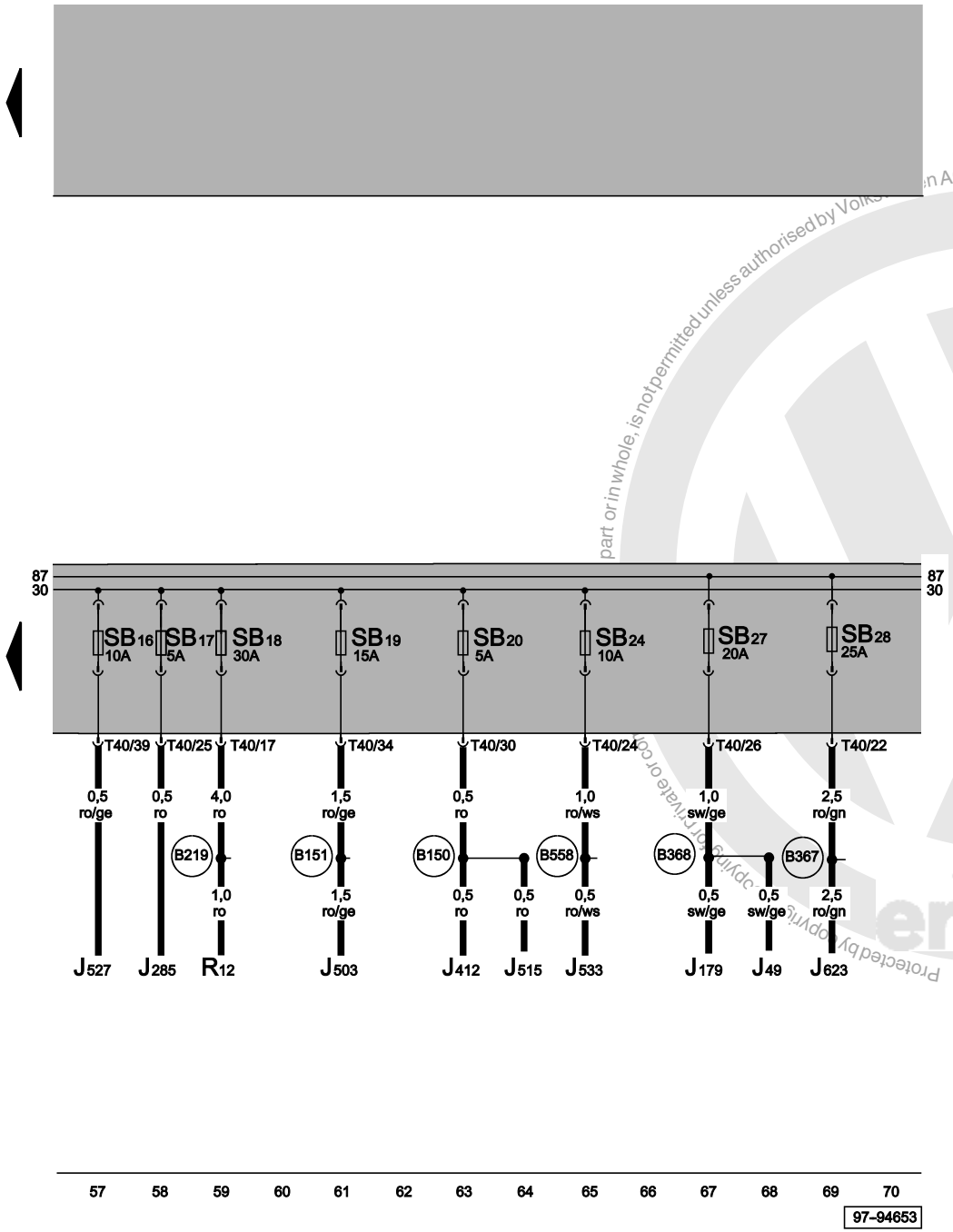


SB fuses

J47	Heated windscreen relay
J104	ABS control unit
J179	Automatic glow period control unit
J364	Auxiliary heater control unit
J393	Convenience system central control unit
J400	Wiper motor control unit
J514	Electronic manual gearbox control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
SB3	Fuse 3 on fuse holder B
SB30	Fuse 30 on fuse holder B
SB31	Fuse 31 on fuse holder B
SB52	Fuse 52 on fuse holder B
SB54	Fuse 54 on fuse holder B
T40	40-pin connector, under E-box, in engine compartment
B333	Connection 19 (30a), in main wiring harness

ws = white
sw = black
ro = red
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gn = green
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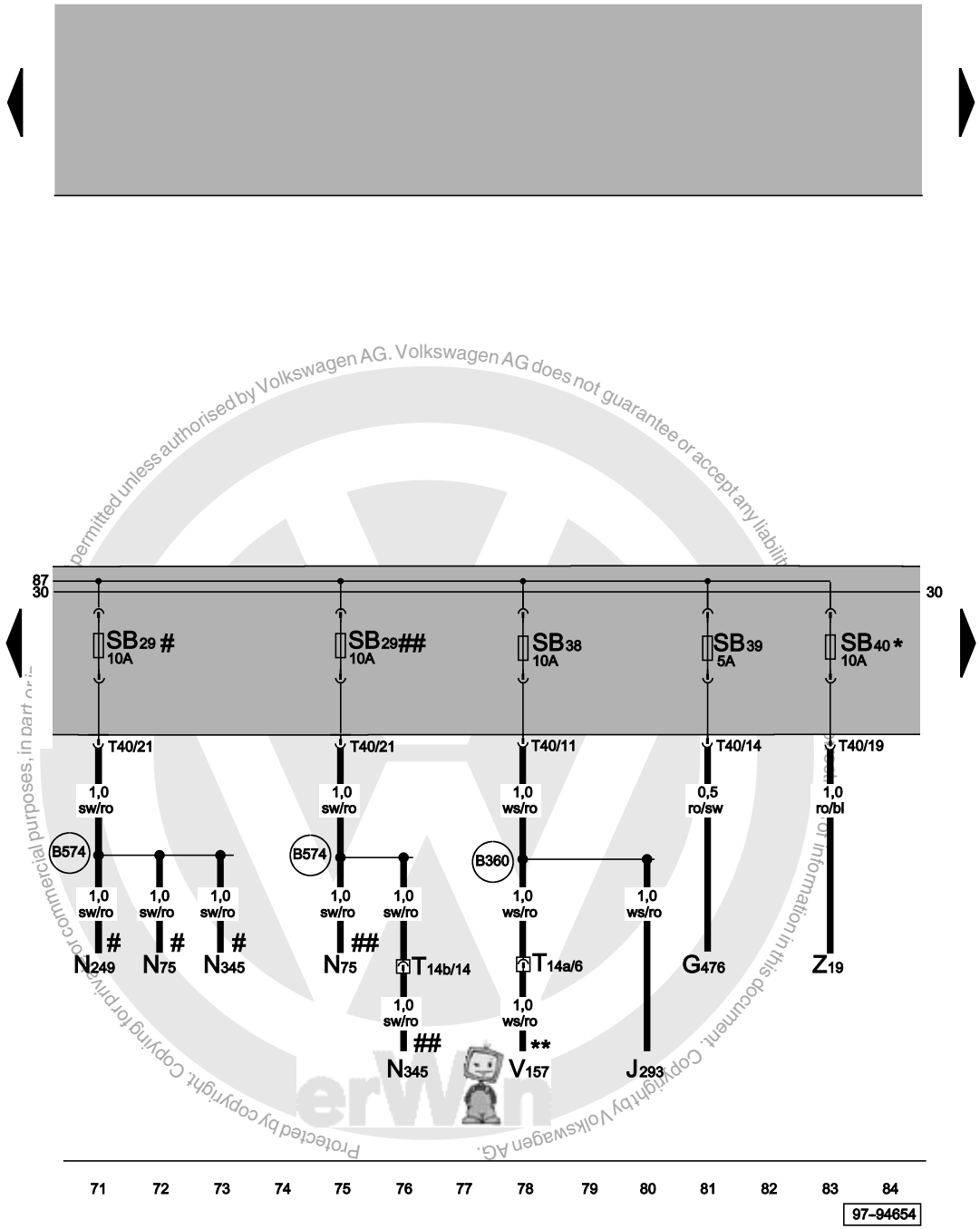


SB fuses

J49	Electric fuel pump 2 relay
J179	Automatic glow period control unit
J285	Control unit in dash panel insert
J412	Control unit for mobile telephone operating electronics
J503	Control unit with display for radio and navigation
J515	Aerial selection control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
J623	Engine control unit
R12	Amplifier
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB27	Fuse 27 on fuse holder B
SB28	Fuse 28 on fuse holder B
T40	40-pin connector, under E-box, in engine compartment
B150	Positive connection 2 (30a), in interior wiring harness
B151	Positive connection 3 (30a), in interior wiring harness
B219	Positive connection 4 (30a), in interior wiring harness
B367	Connection 18 (87a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B558	Connection 22 (30a), in main wiring harness

ws	=	white
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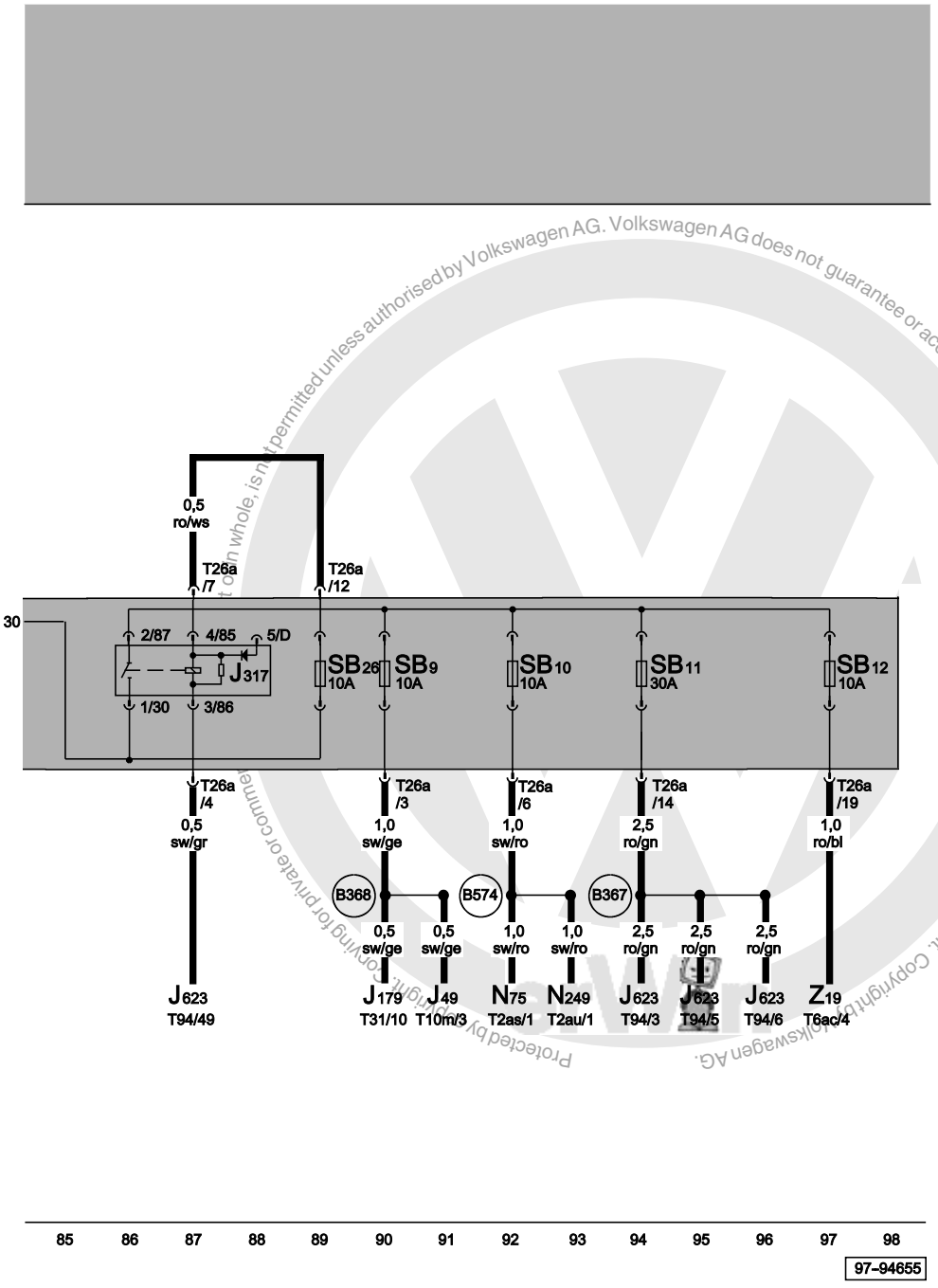


SB fuses

G476	Clutch position sender
J293	Radiator fan control unit
N75	Charge pressure control solenoid valve
N249	Turbocharger air recirculation valve
N345	Exhaust gas recirculation cooler changeover valve
SB29	Fuse 29 on fuse holder B
SB38	Fuse 38 on fuse holder B
SB39	Fuse 39 on fuse holder B
SB40	Fuse 40 on fuse holder B
T14a	14-pin connector, coupling point 1 on left in engine compartment
T14b	14-pin connector, coupling point 2 on left in engine compartment
T40	40-pin connector, under E-box, in engine compartment
V157	Intake manifold flap motor
Z19	Lambda probe heater
B360	Connection 11 (87a), in main wiring harness
B574	Connection 20 (87a), in main wiring harness
*	Only models with engine codes BLS, BMP, BMR
**	Only models with engine codes BKC, BMA, BKP, BMR
#	Only models with engine codes BKC, BKP, BMR
##	Only models with engine codes BMP, BLS

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sw	=	black
ro	=	red
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Terminal 30 voltage supply relay

J49	Electric fuel pump 2 relay
J179	Automatic glow period control unit
J317	Terminal 30 voltage supply relay
J623	Engine control unit
N75	Charge pressure control solenoid valve
N249	Turbocharger air recirculation valve
SB9	Fuse 9 on fuse holder B
SB10	Fuse 10 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB12	Fuse 12 on fuse holder B
SB26	Fuse 26 on fuse holder B
T2as	2-pin connector
T2au	2-pin connector
T6ac	6-pin connector
T10m	10-pin connector
T26a	26-pin connector, on E-box, in engine compartment
T31	31-pin connector
T94	94-pin connector
Z19	Lambda probe heater
B367	Connection 18 (87a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B574	Connection 20 (87a), in main wiring harness

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Rear roller blind

From April 2005

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

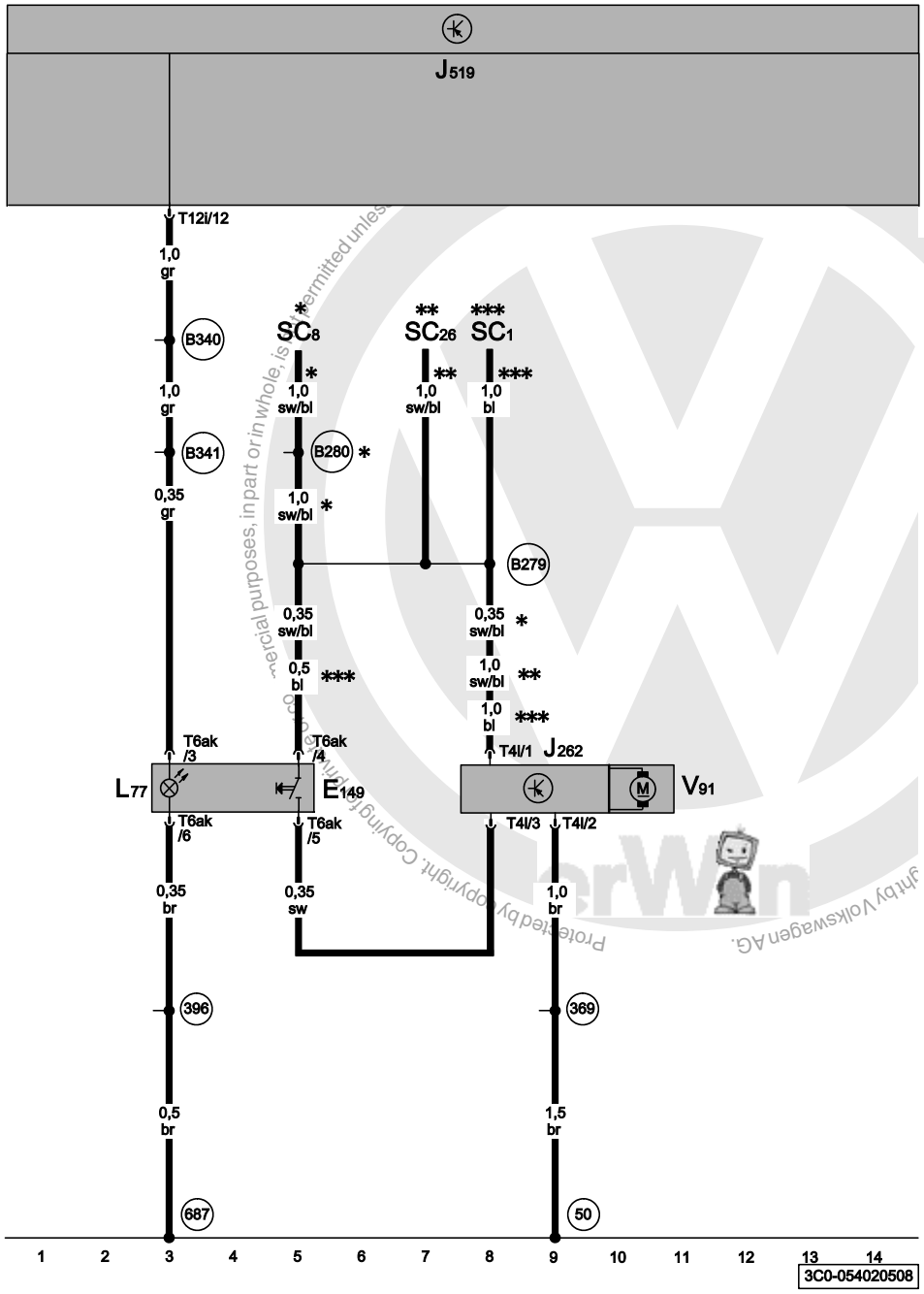
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Rear roller blind switch, rear roller control unit, rear roller blind motor, rear roller blind switch illumination bulb

E149	Rear roller blind switch
J262	Rear roller blind control unit
J519	Onboard supply control unit
L77	Rear roller blind switch illumination bulb
SC1	Fuse 1 on fuse holder C
SC8	Fuse 8 on fuse holder C
SC26	Fuse 26 on fuse holder C
T4l	4-pin connector
T6ak	6-pin connector
T12i	12-pin connector, black
V91	Rear roller blind motor
50	Earth point, on left in luggage compartment
369	Earth connection 4, in main wiring harness
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B279	Connection 3 (15a), in main wiring harness
B280	Connection 4 (15a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Applicable to April 2005
**	Applicable from May 2005
***	Applicable from May 2008

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Auxiliary air heater (PTC)

from May 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

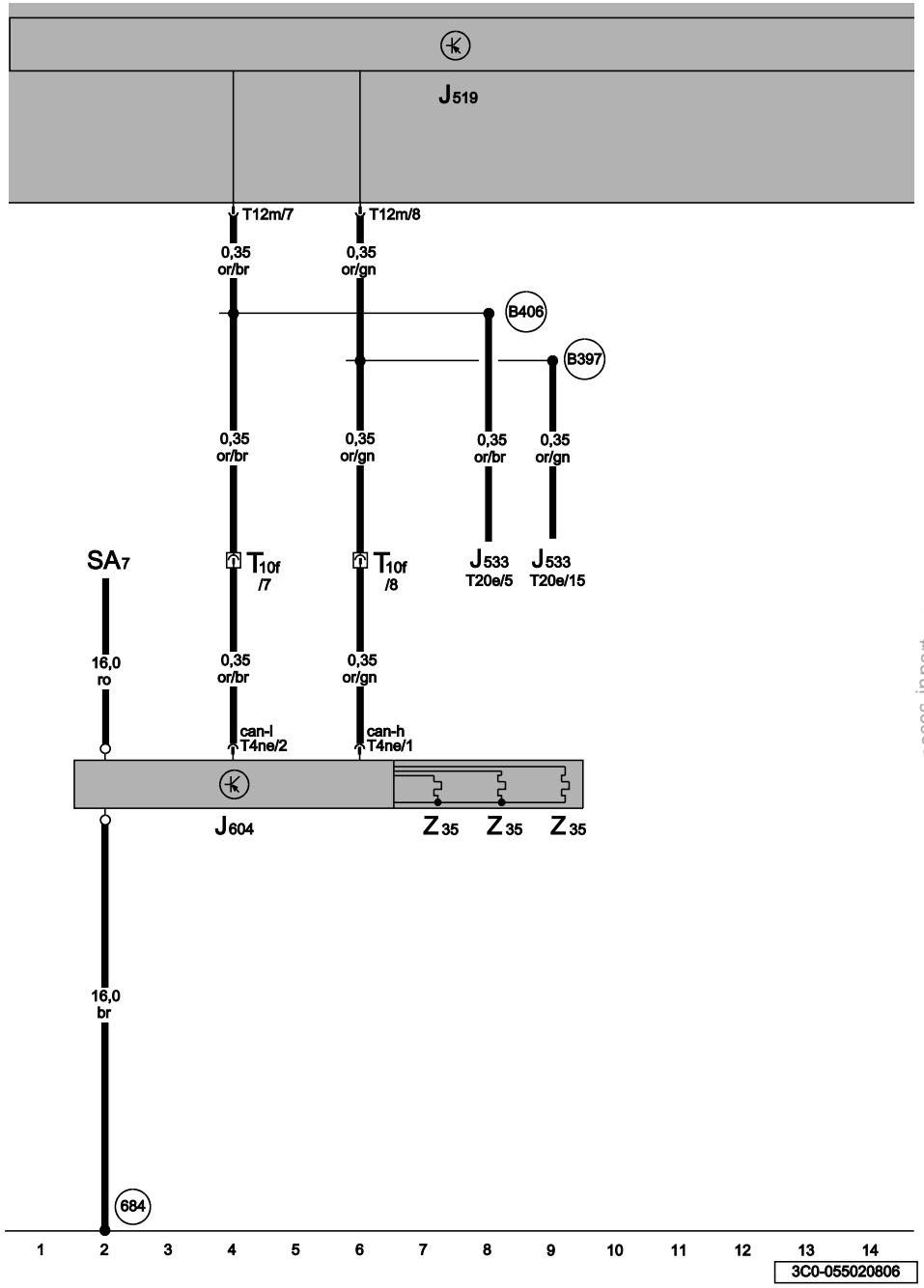
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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Auxiliary air heater control unit, auxiliary air heater element

J519	Onboard supply control unit
J533	Data bus diagnostic interface
J604	Auxiliary air heater control unit
SA7	Fuse 7 on fuse holder A
T4ne	4-pin connector
T10f	10-pin connector, coupling point heater/air conditioner
T12m	12-pin connector, black
T20e	20-pin connector
Z35	Auxiliary heater element
684	Earth point, on front of left longitudinal member
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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3.2 l/184 kW Motronic, engine code AXZ
from May 2005

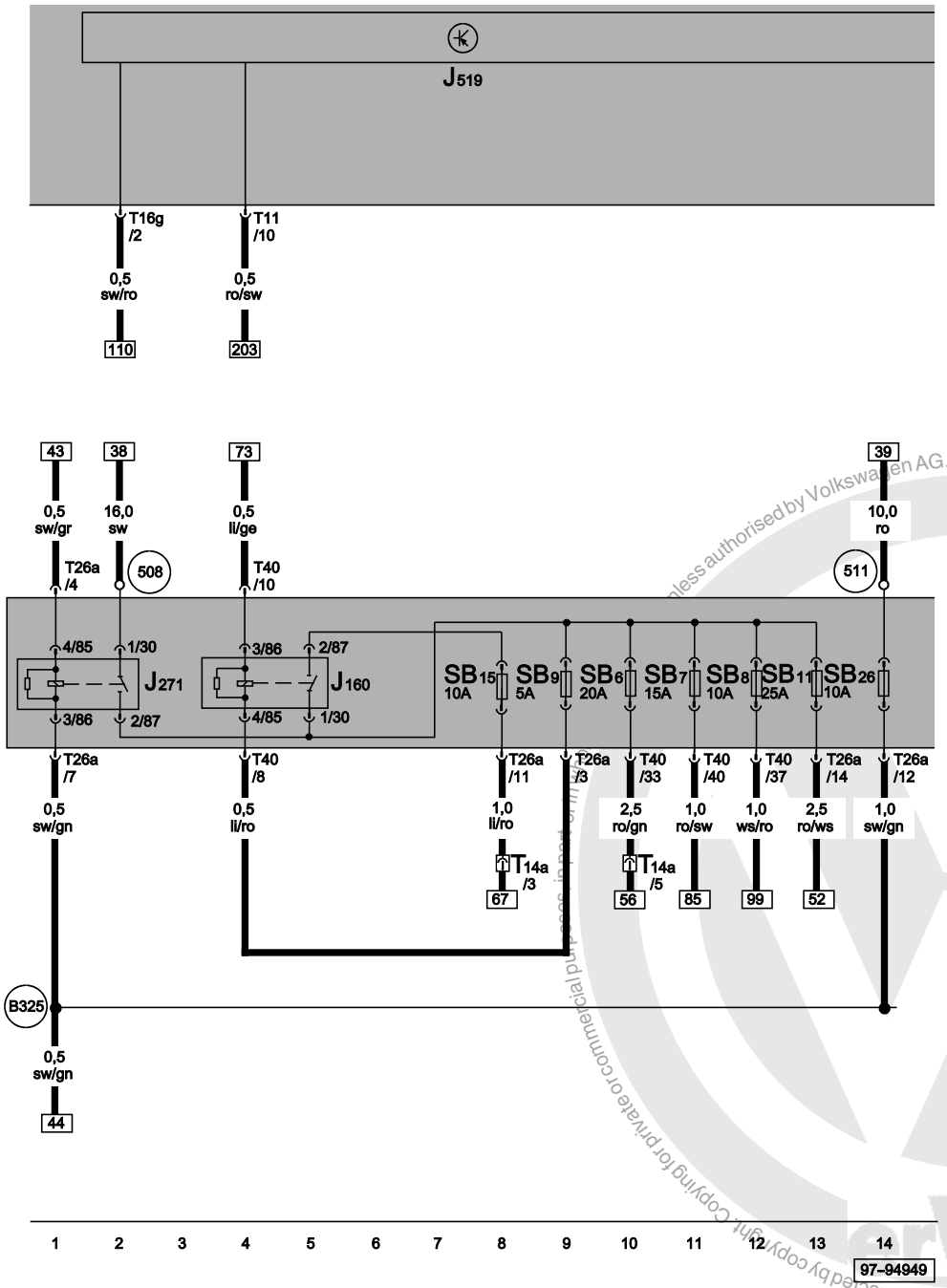
3.6 l/206 kW Motronic, engine code BLV
from May 2005

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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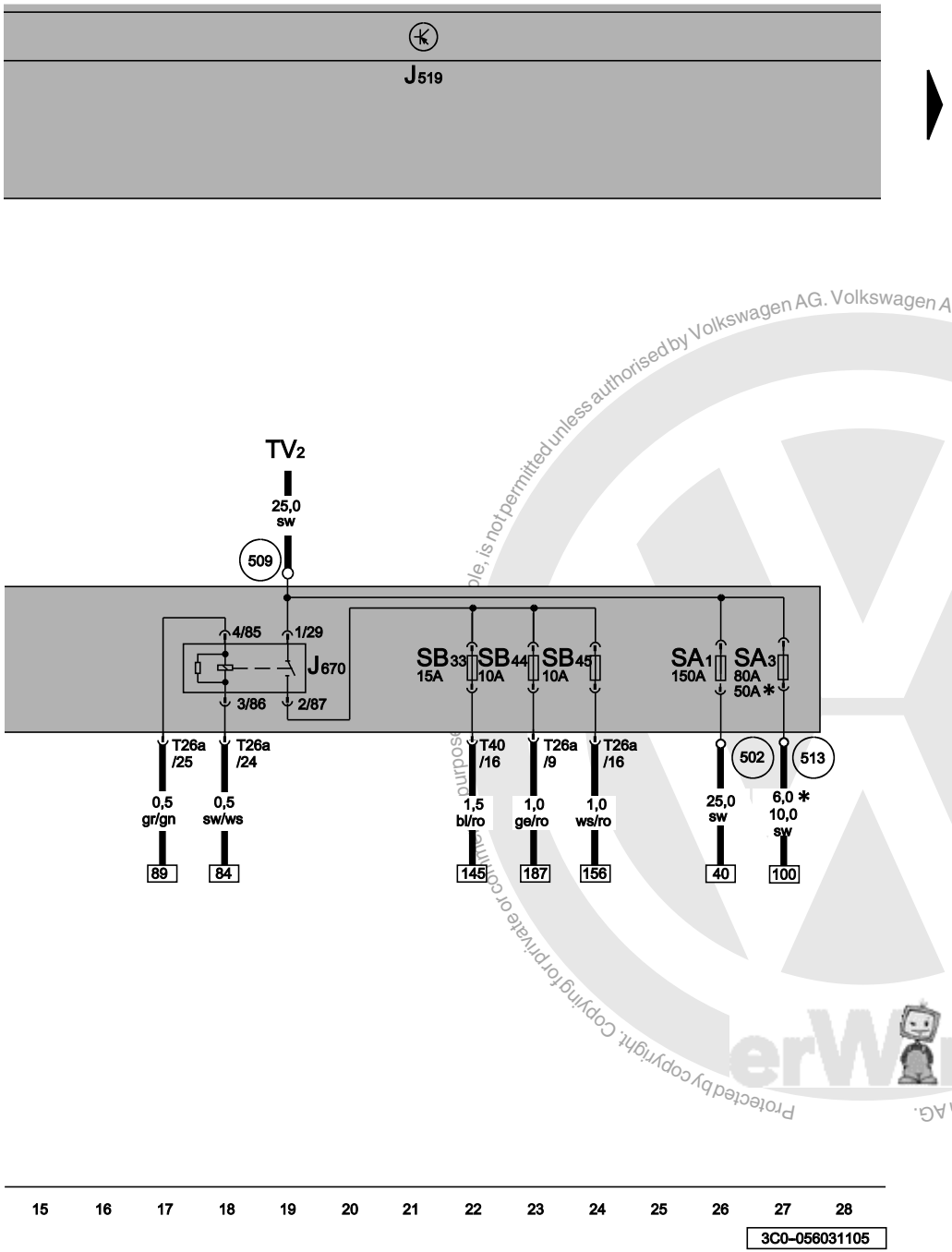


Circulation pump relay, Motronic current supply relay, SB-fuses

J160	Circulation pump relay
J271	Motronic current supply relay
J519	Onboard supply control unit
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB8	Fuse 8 on fuse holder B
SB9	Fuse 9 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB15	Fuse 15 on fuse holder B
SB26	Fuse 26 on fuse holder B
T11	11-pin connector, black
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T16g	16-pin connector, black
T26a	26-pin connector, on electronics box
T40	40-pin connector, under electronics box, in engine compartment
508	Screw connection (30), on electronics box
511	Screw connection 2 (30), on electronics box
B325	Positive connection 11 (30a), in main wiring harness

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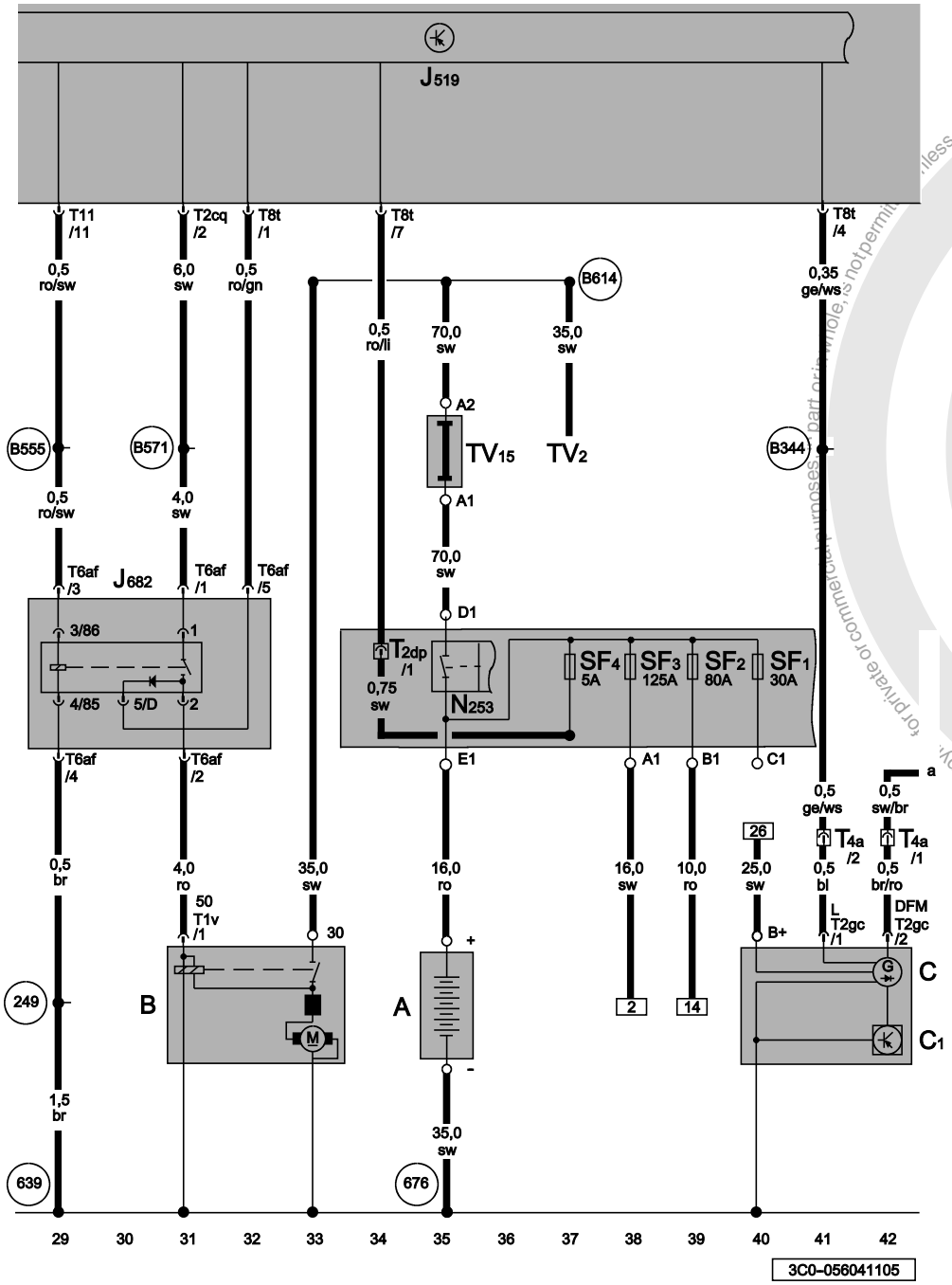


Motronic current supply relay 2

J519	Onboard supply control unit
J670	Motronic current supply relay 2
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB33	Fuse 33 on fuse holder B
SB44	Fuse 44 on fuse holder B
SB45	Fuse 45 on fuse holder B
T26a	26-pin connector, on electronics box
T40	40-pin connector, under electronics box, in engine compartment
TV2	Terminal 30 wiring junction
502	Screw connection 1 (30a), on relay plate
509	Screw connection 1 (29), on electronics box
513	Screw connection 3 (30a), on relay plate
*	from November 2005

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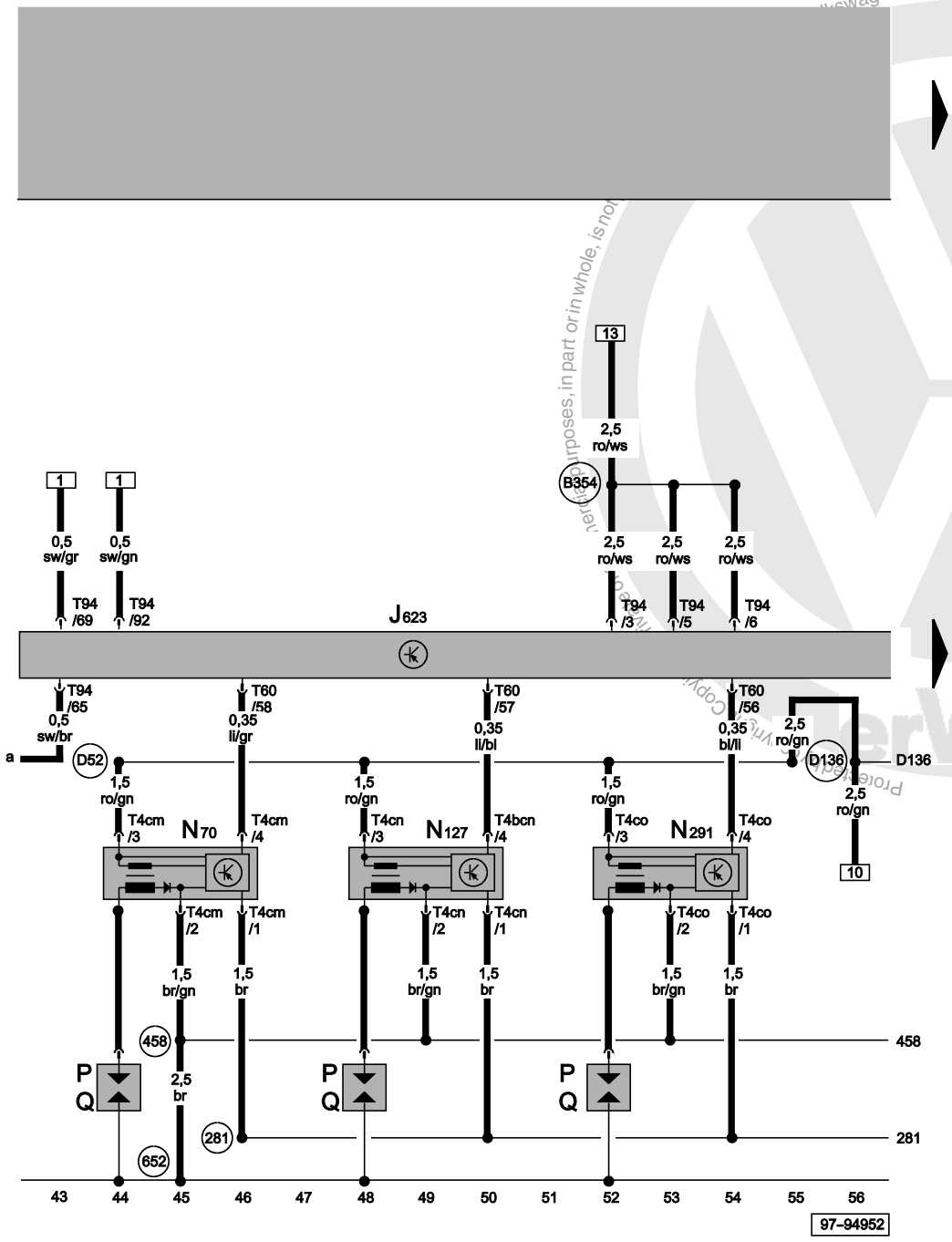


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Terminals 50 voltage supply relay, battery, starter, alternator, voltage regulator

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay
N253	Battery isolation igniter
SF1	Fuse 1 in fuse holder F, on left in luggage compartment
SF2	Fuse 2 in fuse holder F, on left in luggage compartment
SF3	Fuse 3 in fuse holder F, on left in luggage compartment
SF4	Fuse 4 in fuse holder F, on left in luggage compartment
T1v	Single connector
T2dp	2-pin connector, black, coupling connector, in the main fuse box
T2gc	2-pin connector
T2cq	2-pin connector, black
T4a	4-pin connector, near starter
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
TV2	Terminal 30 wiring junction
TV15	Wiring connector
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
676	Earth point 2, on left in luggage compartment
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
B614	Positive connection 23 (30a), in main wiring harness

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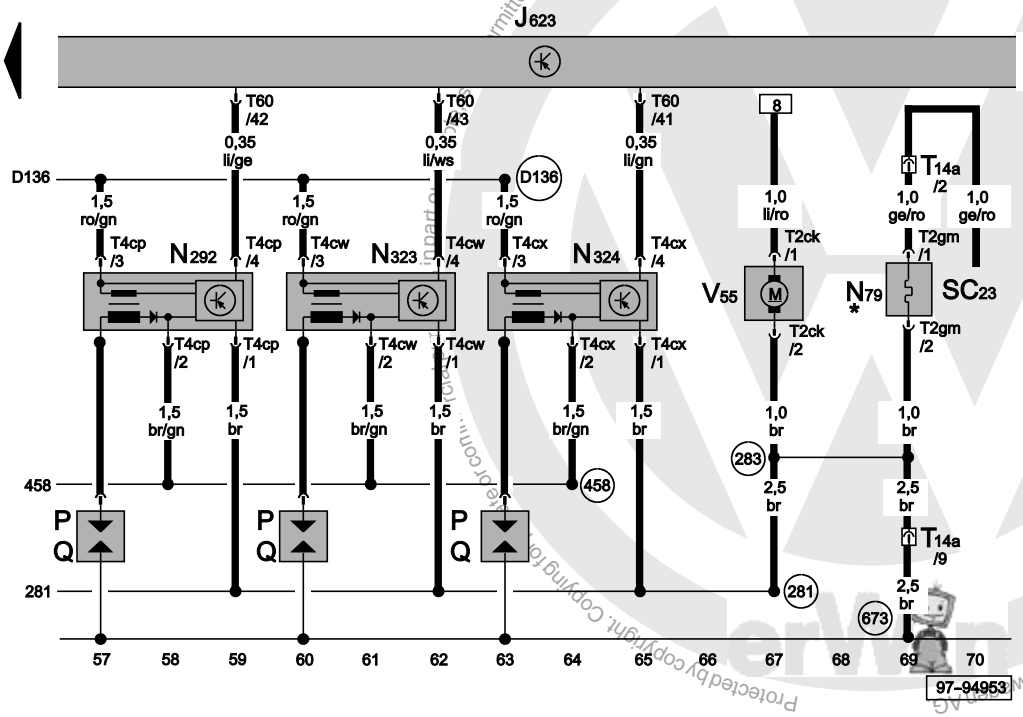
Engine control unit, ignition coils 1 to 3 with output stage, spark plugs, spark plug connector

J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
P	Spark plug connector
Q	Spark plugs
T4cm	4-pin connector
T4cn	4-pin connector
T4co	4-pin connector
T60	60-pin connector
T94	94-pin connector
281	Earth connection 1, in engine harness
458	Earth connection 3, in engine harness
652	Earth point for engine and gearbox earth
B354	Positive connection 5 (87a), in main wiring harness
D52	Positive connection (15a), in engine compartment wiring harness
D136	Positive connection 2 (15a), in engine compartment wiring harness

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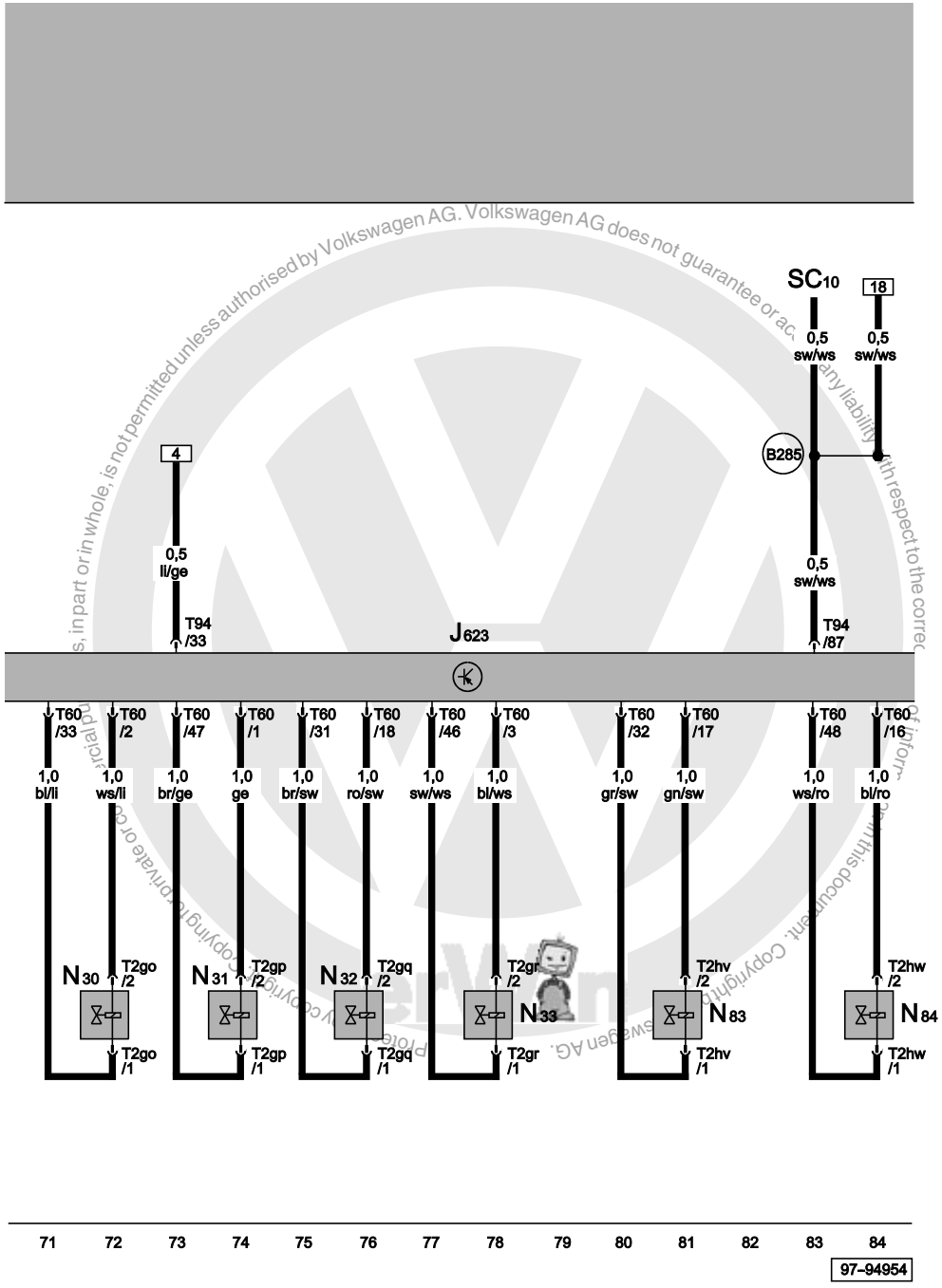


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Engine control unit, heater element for crankcase breather, ignition coil 4 -6 with output stage, spark plugs, spark plug connector, circulation pump

J623	Engine control unit
N79	Heater element for crankcase breather
N292	Ignition coil 4 with output stage
N323	Ignition coil 5 with output stage
N324	Ignition coil 6 with output stage
P	Spark plug connector
Q	Spark plugs
SC23	Fuse 23 on fuse holder C
T2ck	2-pin connector
T2gm	2-pin connector
T4cp	4-pin connector
T4cw	4-pin connector
T4cx	4-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T60	60-pin connector
V55	Circulation pump
281	Earth connection 1, in engine harness
283	Earth connection 2, in engine harness
458	Earth connection 3, in engine harness
673	Earth point 3, on front of left longitudinal member
D136	Positive connection 2 (15a), in engine compartment wiring harness
*	models for cold countries only

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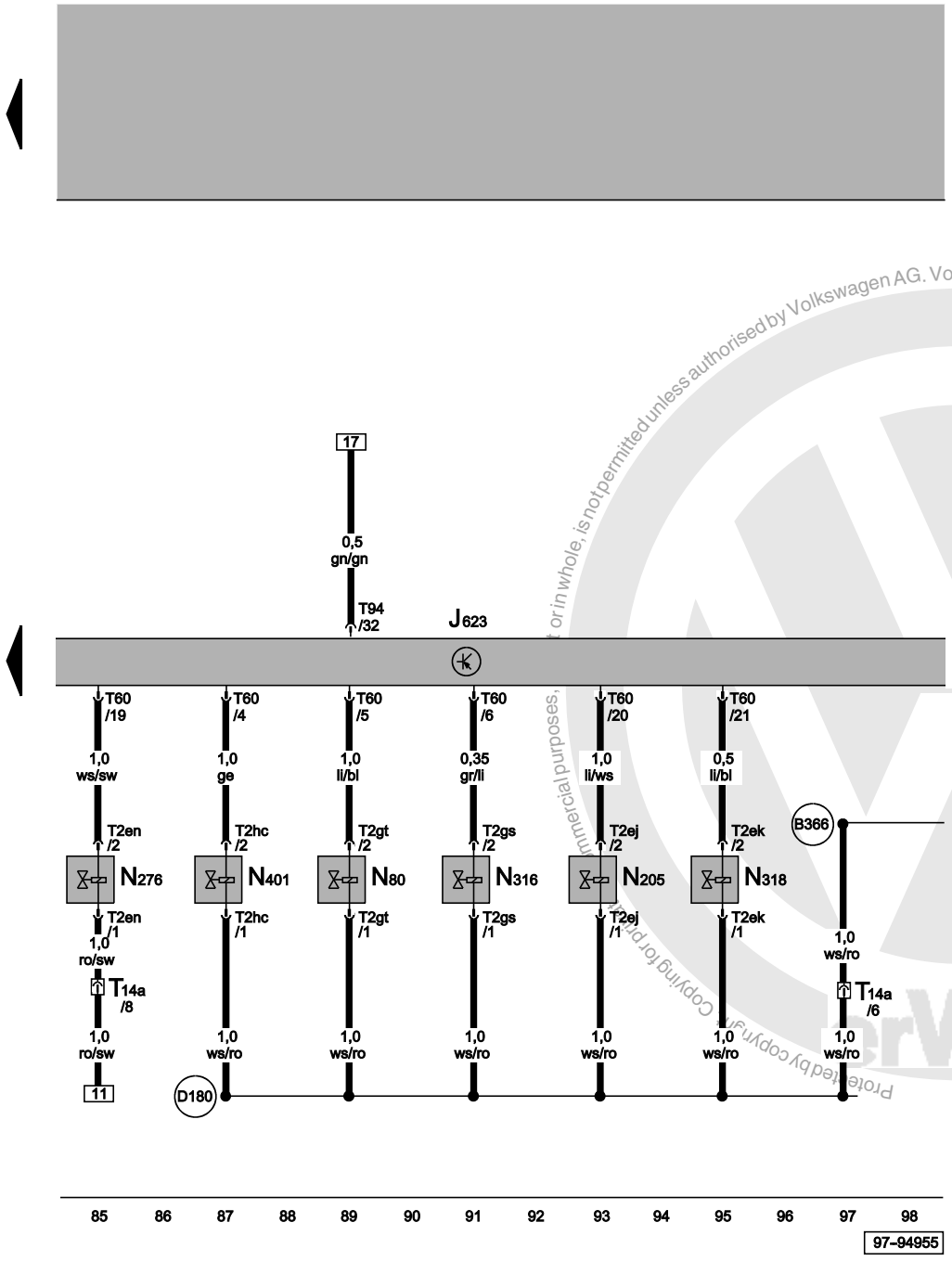


Engine control unit, injectors for cylinders 1-6

J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
N83	Injector, cylinder 5
N84	Injector, cylinder 6
SC10	Fuse 10 on fuse holder B
T2go	2-pin connector
T2gp	2-pin connector
T2gq	2-pin connector
T2gr	2-pin connector
T2hv	2-pin connector
T2hw	2-pin connector
T60	60-pin connector
T94	94-pin connector
B285	Positive connection 9 (15a), in main wiring harness

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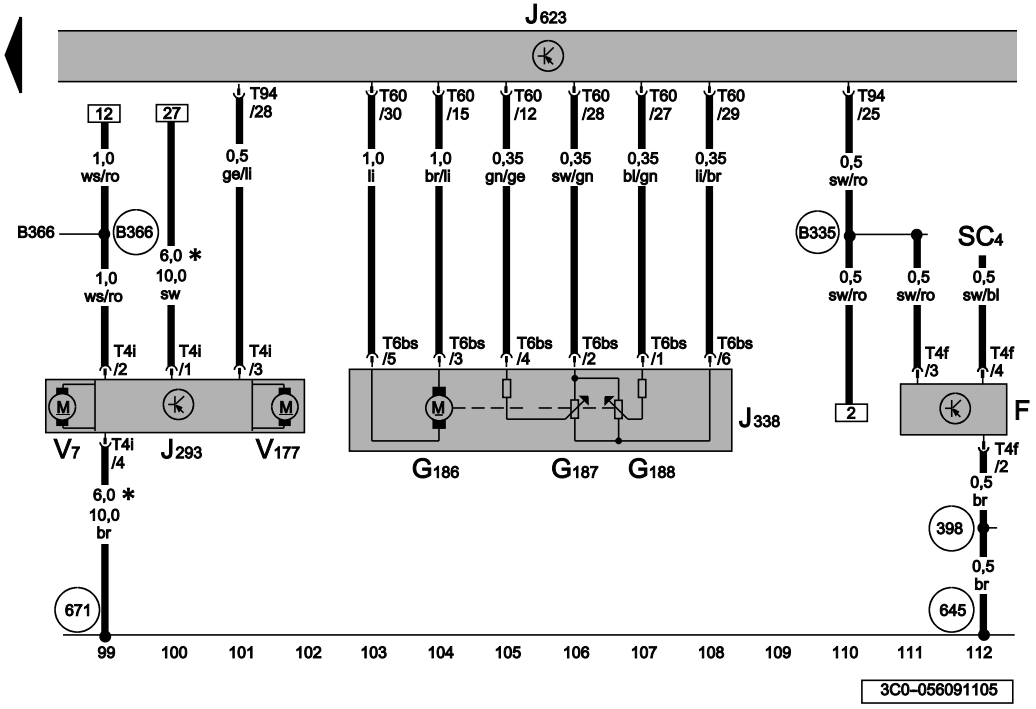


Engine control unit, active charcoal filter system solenoid valve 1, fuel pressure regulating valve, suction jet pump valve, inlet camshaft control valve 1

J623	Engine control unit
N80	Activated charcoal filter system solenoid valve 1
N205	Inlet camshaft control valve 1
N276	Fuel pressure regulating valve
N316	Intake manifold flap valve
N318	Exhaust camshaft control valve 1
N401	Suction jet pump valve
T2ej	2-pin connector
T2ek	2-pin connector
T2en	2-pin connector
T2gs	2-pin connector
T2gt	2-pin connector
T2hc	2-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T60	60-pin connector
T94	94-pin connector
B366	Positive connection 7 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness

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Engine control unit, radiator fan control unit, throttle valve module, brake light switch

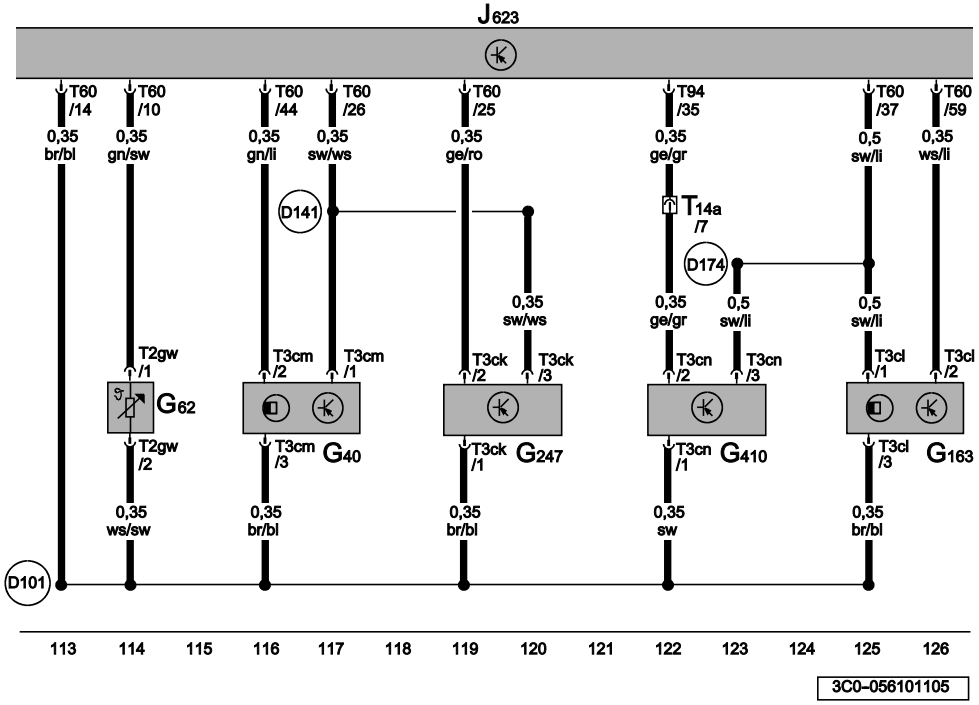
F	Brake light switch
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J293	Radiator fan control unit
J338	Throttle valve module
J623	Engine control unit
SC4	Fuse 4 on fuse holder C
T4f	4-pin connector
T4i	4-pin connector
T6bs	6-pin connector
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
671	Earth point 1, on front of left longitudinal member
B335	Connection 1 (54), in main wiring harness
B366	Positive connection 7 (87a), in main wiring harness
*	from November 2005

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Engine control unit, fuel pressure sender, fuel pressure sender for low pressure, Hall sender, coolant temperature sender

G40	Hall sender
G62	Coolant temperature sender
G163	Hall sender 2
G247	Fuel pressure sender
G410	Fuel pressure sender for low pressure
J623	Engine control unit
T2gw	2-pin connector
T3ck	3-pin connector
T3cl	3-pin connector
T3cm	3-pin connector
T3cn	3-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T60	60-pin connector
T94	94-pin connector
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness
D174	Connection 2 (5V), in engine wiring harness

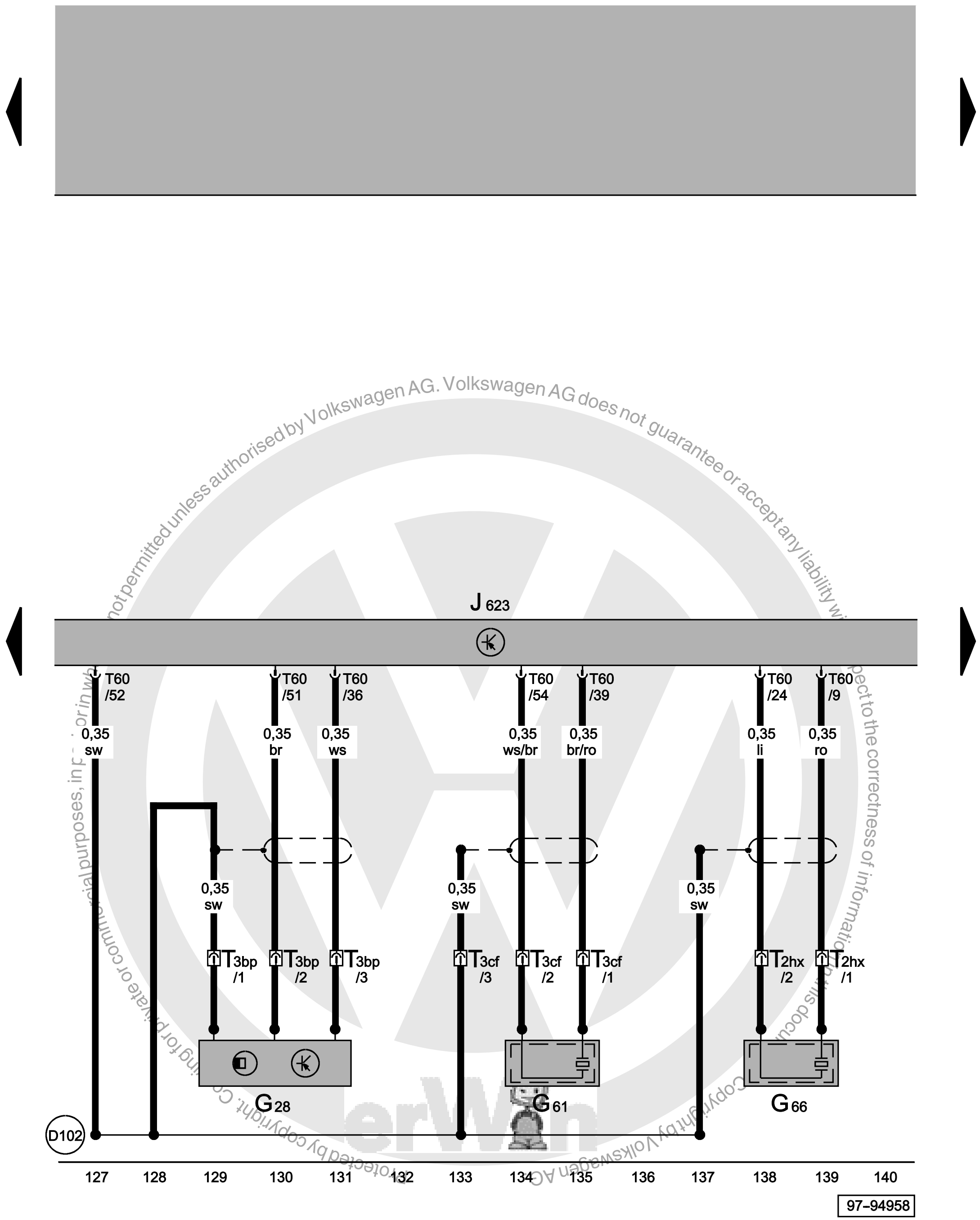


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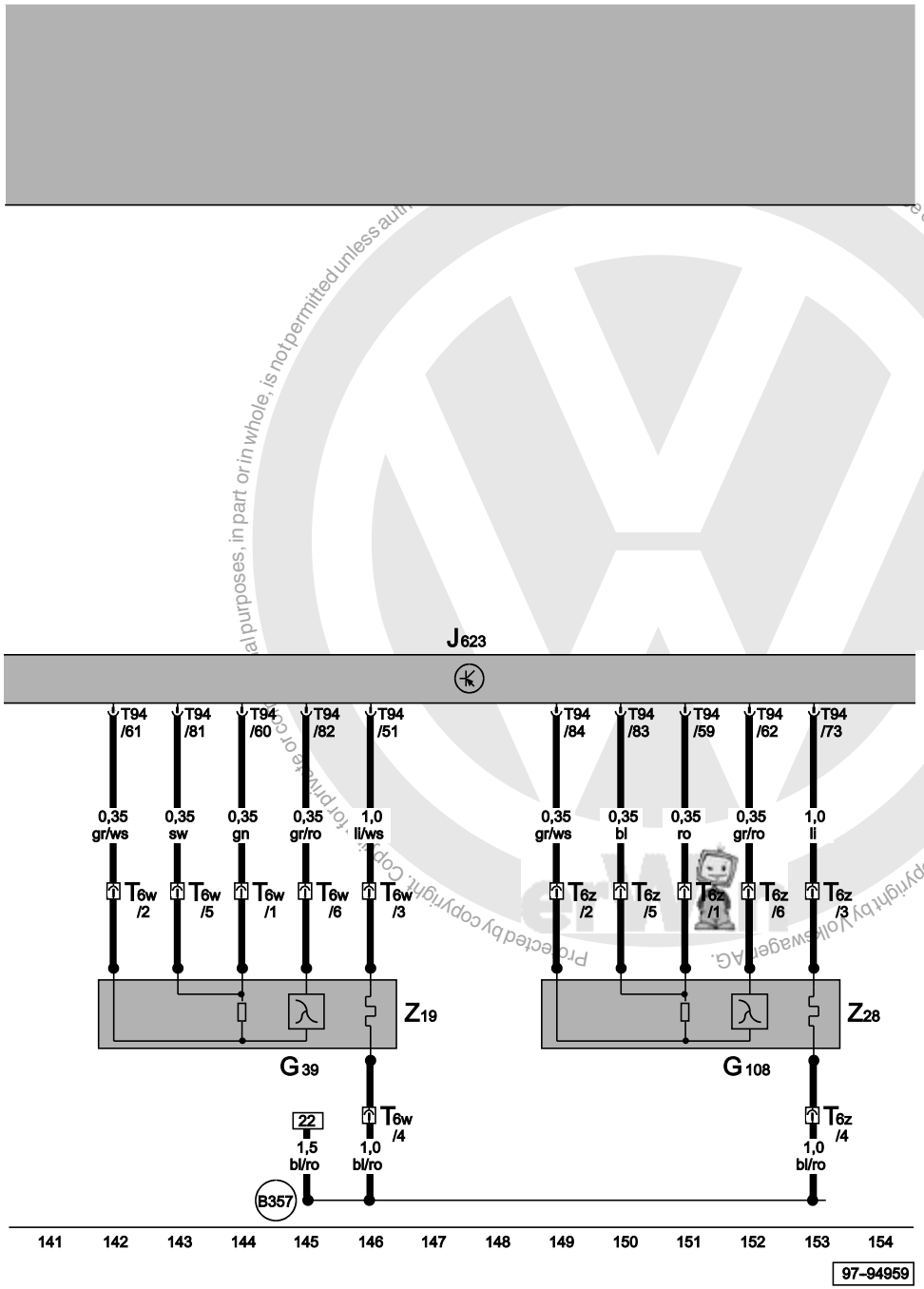
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Engine control unit, engine speed sender, knock sensors 1 and 2

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J623	Engine control unit
T2hx	2-pin connector
T3bp	3-pin connector
T3cf	3-pin connector
T60	60-pin connector
D102	Connection 2, in engine compartment wiring harness



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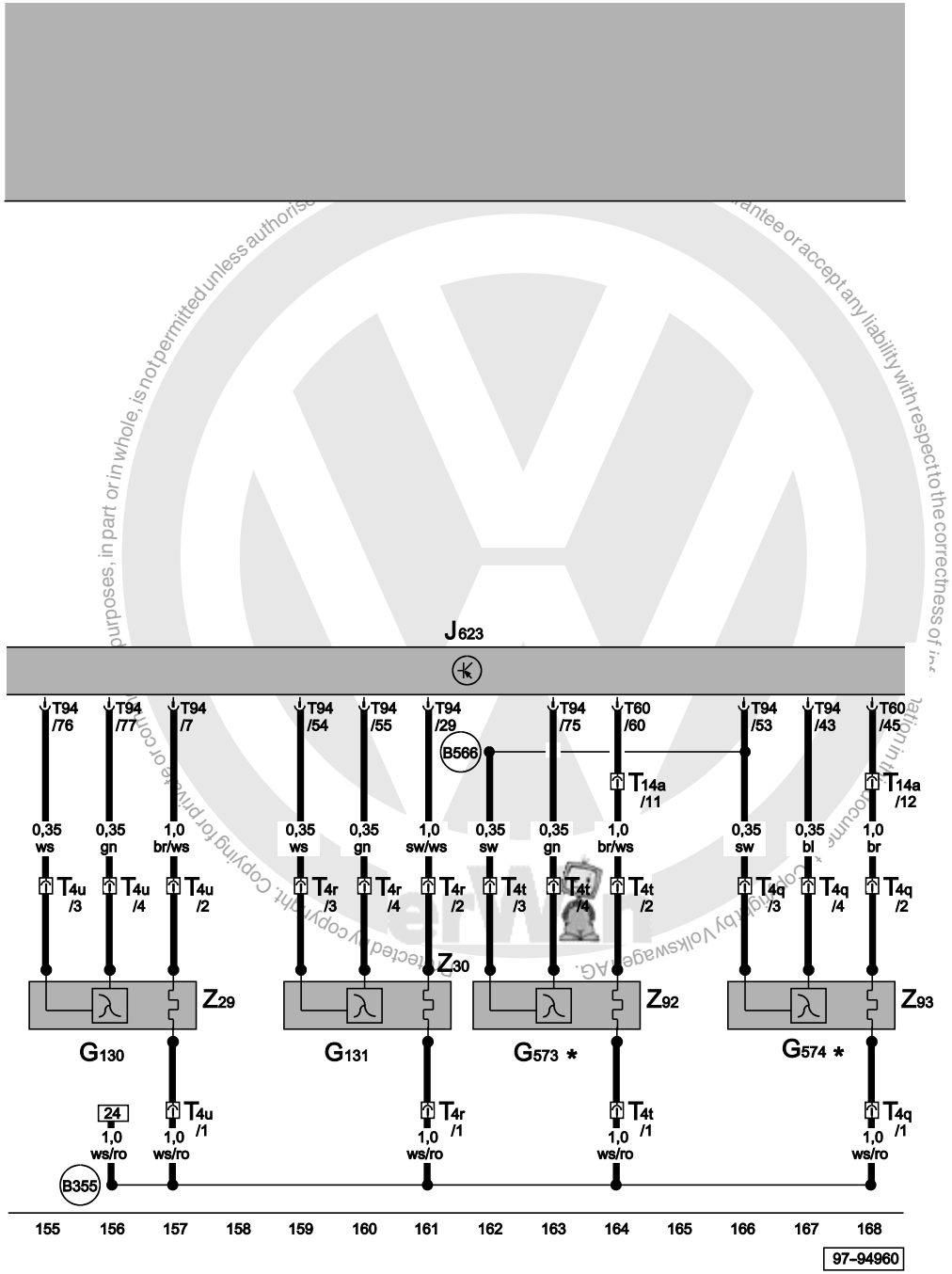


Engine control unit, lambda probe, lambda probe heater

G39	Lambda probe
G108	Lambda probe 2
J623	Engine control unit
T6w	6-pin connector, black, coupling point lambda probe
T6z	6-pin connector, brown, coupling point lambda probe
T94	94-pin connector
Z19	Lambda probe heater
Z28	Lambda probe 2 heater
B357	Positive connection 8 (87a), in main wiring harness

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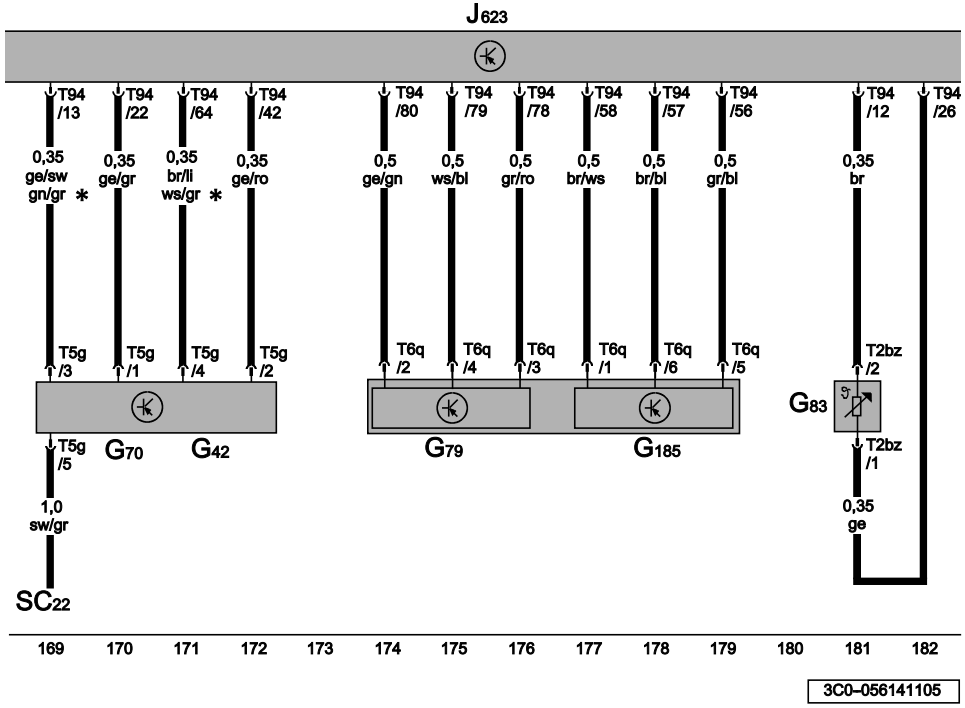
Engine control unit, lambda probe 2 after catalytic converter, lambda probe 1 and 2 heater after catalytic converter

G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter
G573	Lambda probe 3 for bank 1
G574	Lambda probe 3 for bank 2
J623	Engine control unit
T4q	4-pin connector, connector point lambda probe
T4r	4-pin connector, connector point lambda probe
T4t	4-pin connector, connector point lambda probe
T4u	4-pin connector, connector point lambda probe
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T94	94-pin connector
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
Z92	Heating for lambda probe 3 for bank 1
Z93	Heating for lambda probe 3 for bank 2
B355	Positive connection 6 (87a), in main wiring harness
B566	Connection 33, in main wiring harness
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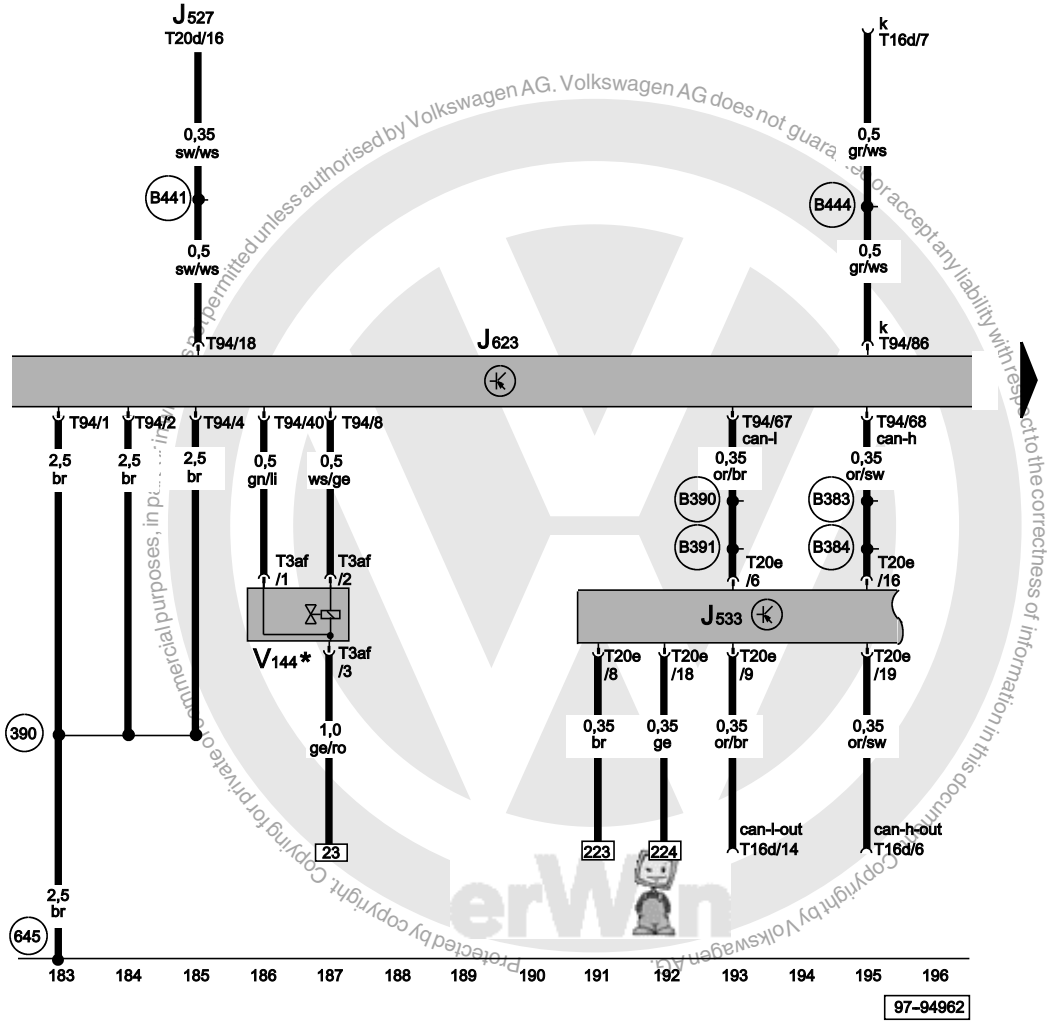
Engine control unit, air mass meter, accelerator position sender 2, radiator outlet coolant temperature sender

G42	Intake air temperature sender
G70	Air mass meter
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J623	Engine control unit
SC22	Fuse 22 on fuse holder C
T2bz	2-pin connector
T5g	5-pin connector
T6q	6-pin connector
T94	94-pin connector
*	from November 2005



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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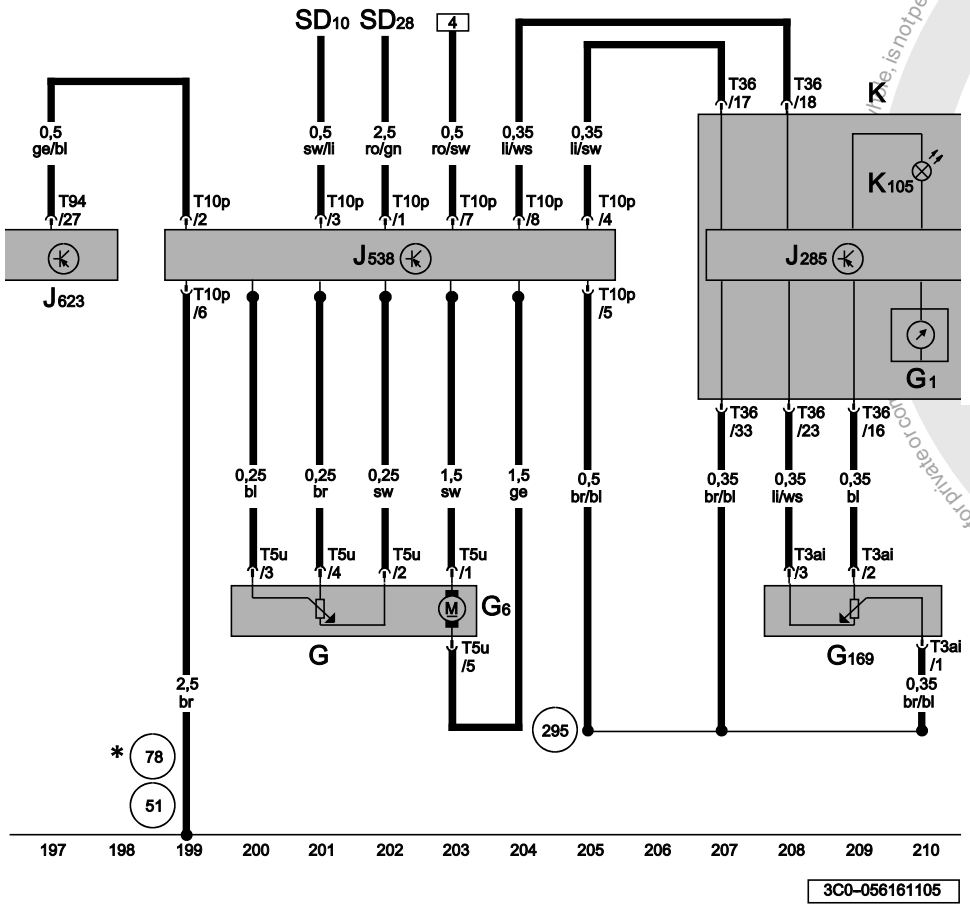
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, data bus diagnostic interface, self-diagnosis connection, fuel system diagnostic pump

J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J623	Engine control unit
T3af	3-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T20d	20-pin connector
T94	94-pin connector
V144	Fuel system diagnostic pump, rear right
390	Earth connection 25, in main wiring harness
645	Earth point 1, on bulkhead
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
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Engine control unit, fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump

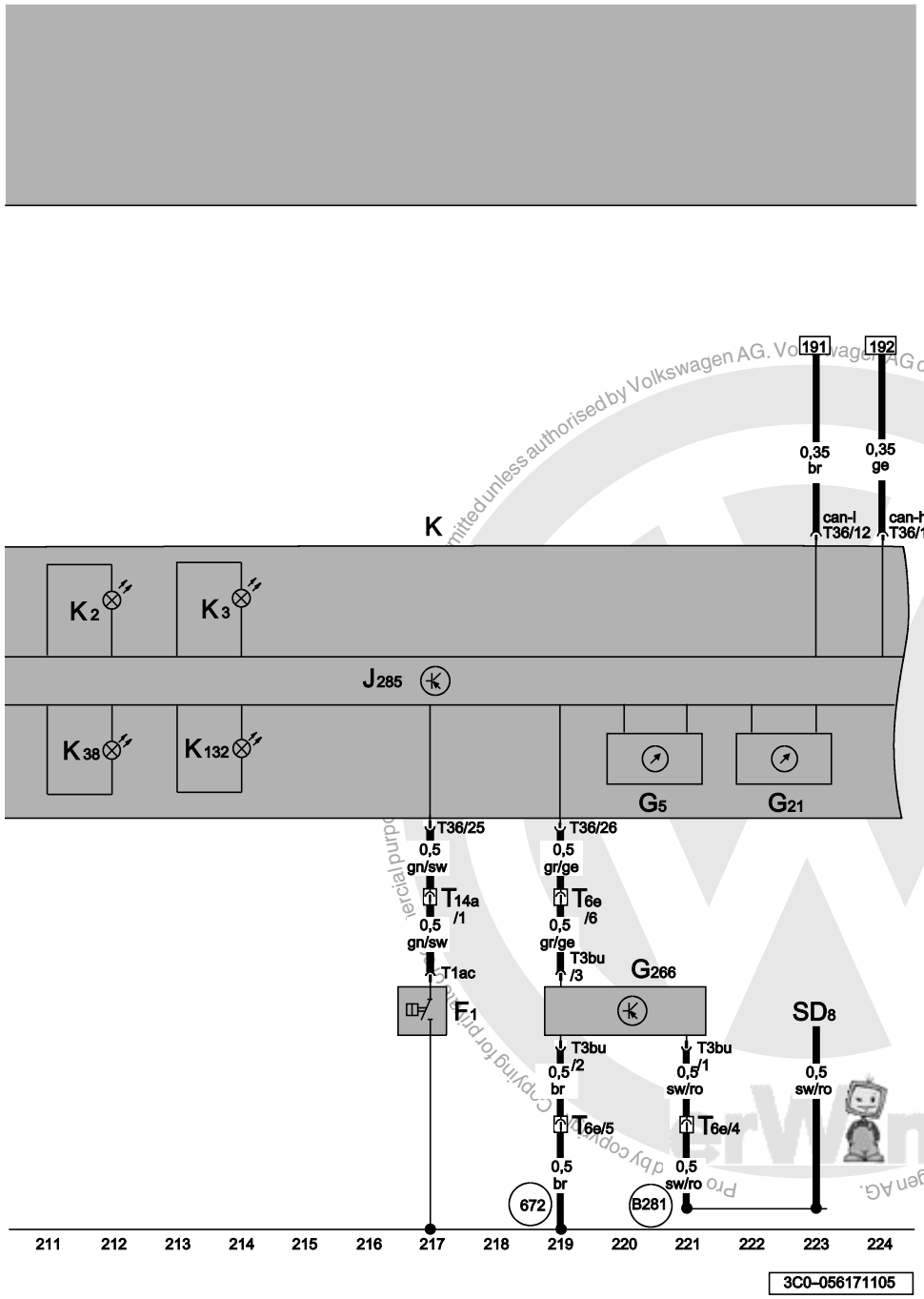
G	Fuel gauge sender
G1	Fuel gauge
G6	Fuel system pressurisation pump
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J538	Fuel pump control unit
J623	Engine control unit
K	Dash panel insert
K105	Reserve fuel warning lamp
SD10	Fuse 10 on fuse holder D
SD28	Fuse 28 on fuse holder D
T3ai	3-pin connector
T5u	5-pin connector
T10p	10-pin connector
T36	36-pin connector
T94	94-pin connector
(51)	Earth point, on right in luggage compartment
(295)	Earth connection 10, in interior wiring harness
*	from November 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender, rev. counter, speedometer

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K38	Oil level warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness



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ro = red
br = brown
gn = green
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2.0 l/147 kW Motronic, engine codes AXX, BPY

from November 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

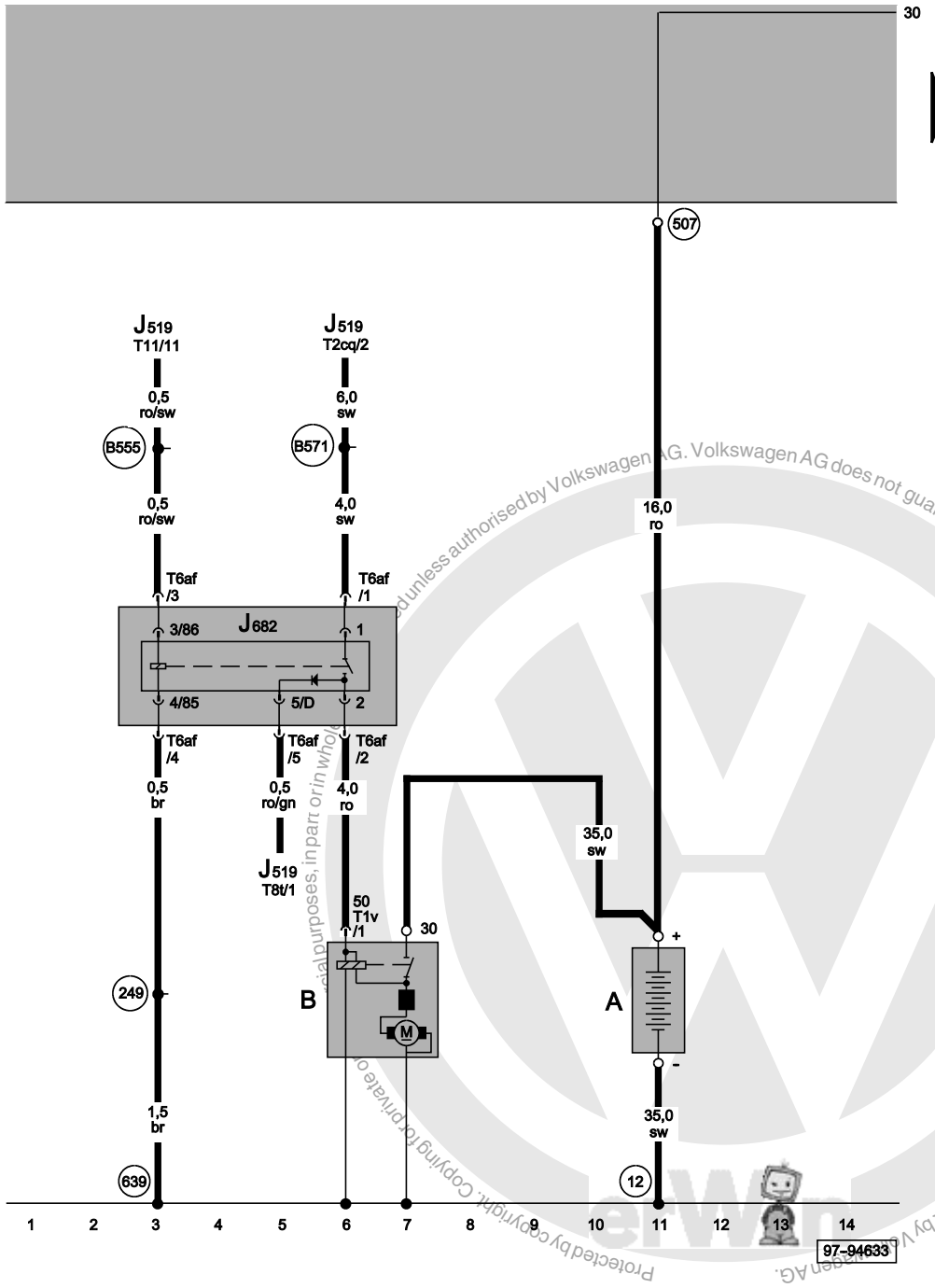
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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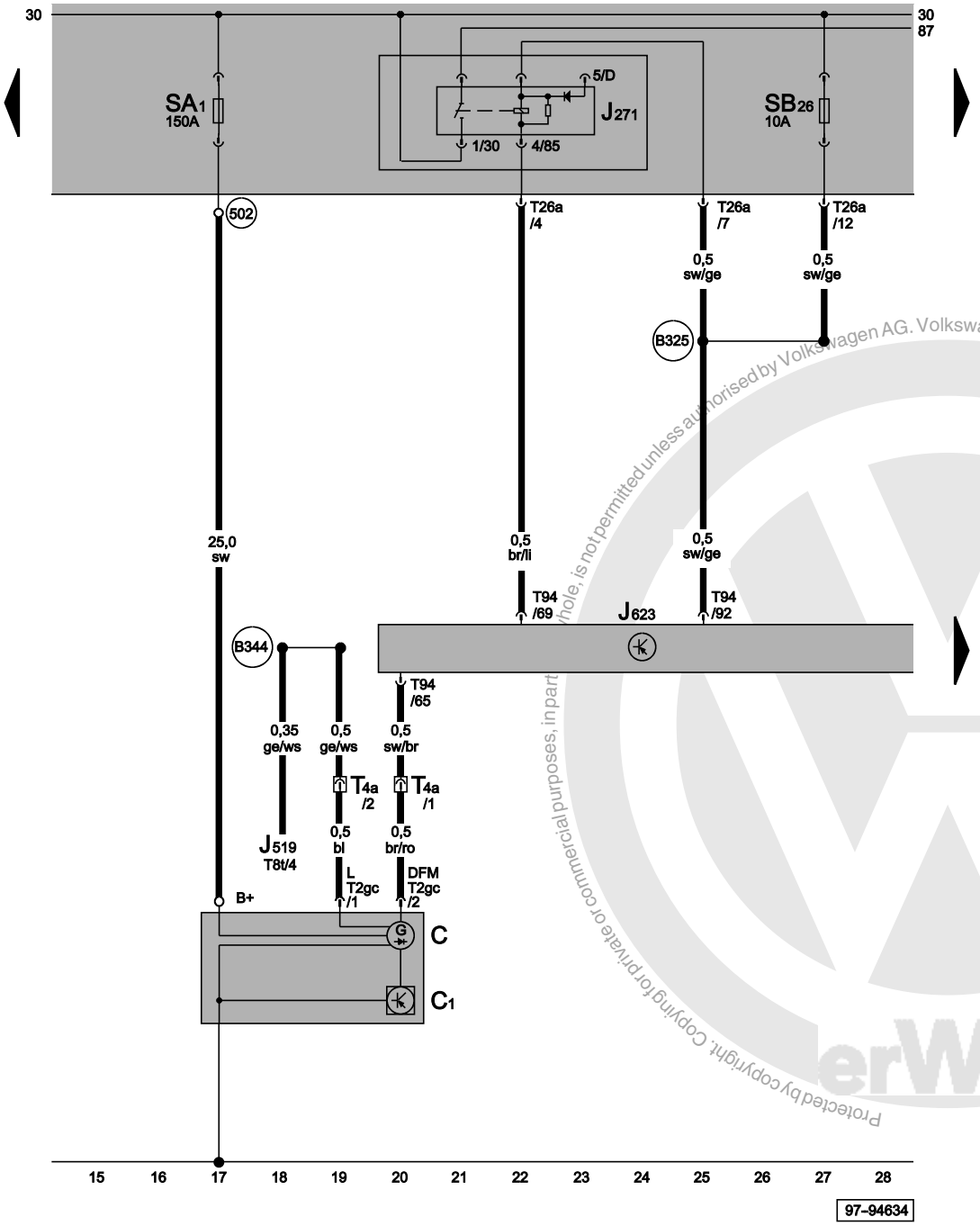


Terminal 50 voltage supply relay, battery, starter

A	Battery
B	Starter
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay
T1v	Single connector
T2cq	2-pin connector
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
507	Screw connection (30), on fuse holder on battery
639	Earth point, left A-pillar
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness

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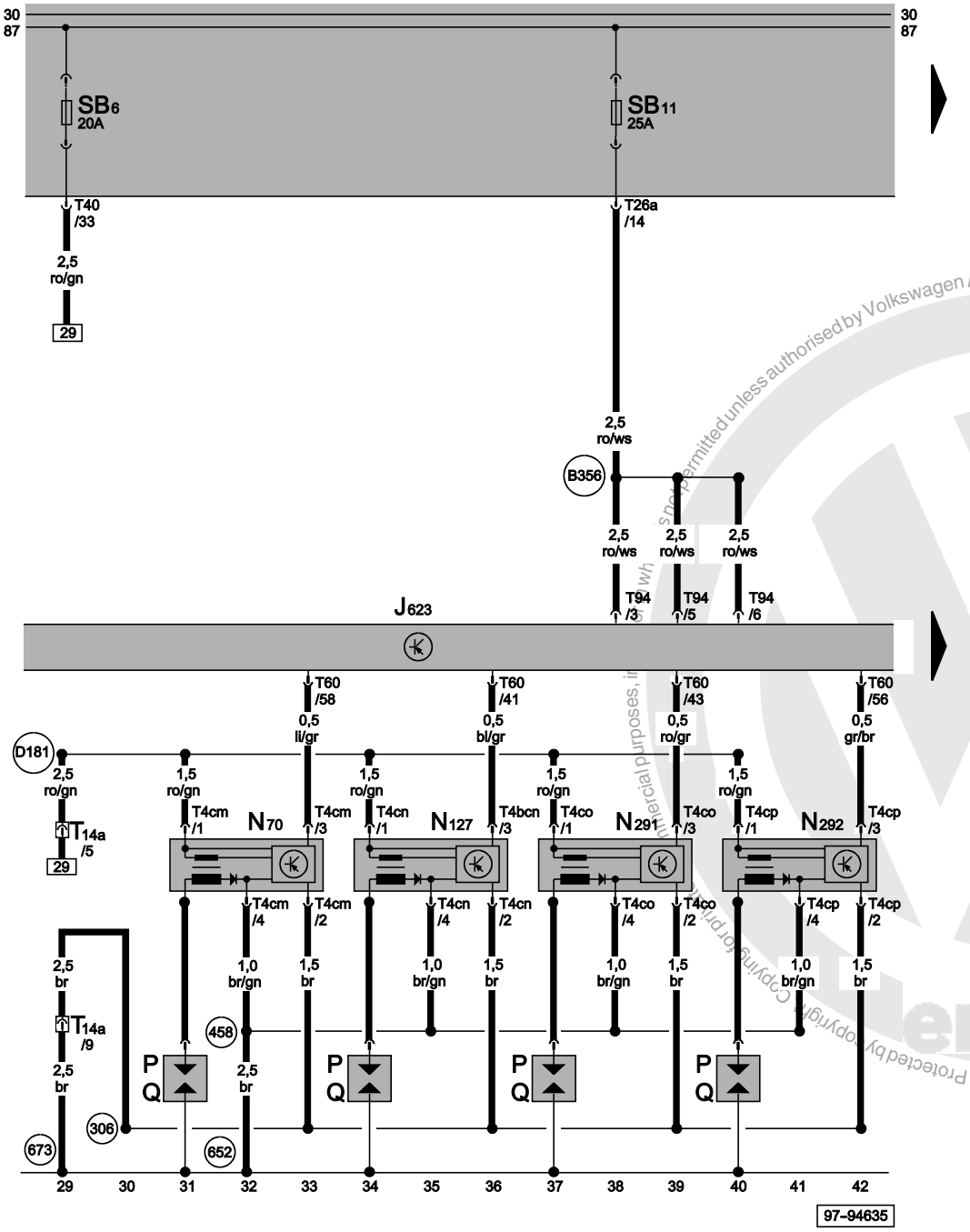


Motronic current supply relay, alternator, voltage regulator, engine control unit

C	Alternator
C1	Voltage regulator
J271	Motronic current supply relay
J519	Onboard supply control unit
J623	Engine control unit
SA1	Fuse 1 on fuse holder A
SB26	Fuse 26 on fuse holder B
T2gc	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector, black
T26a	26-pin connector
T94	94-pin connector
502	Screw connection 1 (30a), on relay plate
B325	Positive connection 11 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness

ws	=	white
sw	=	black
rt	=	red
br	=	brown
gn	=	green
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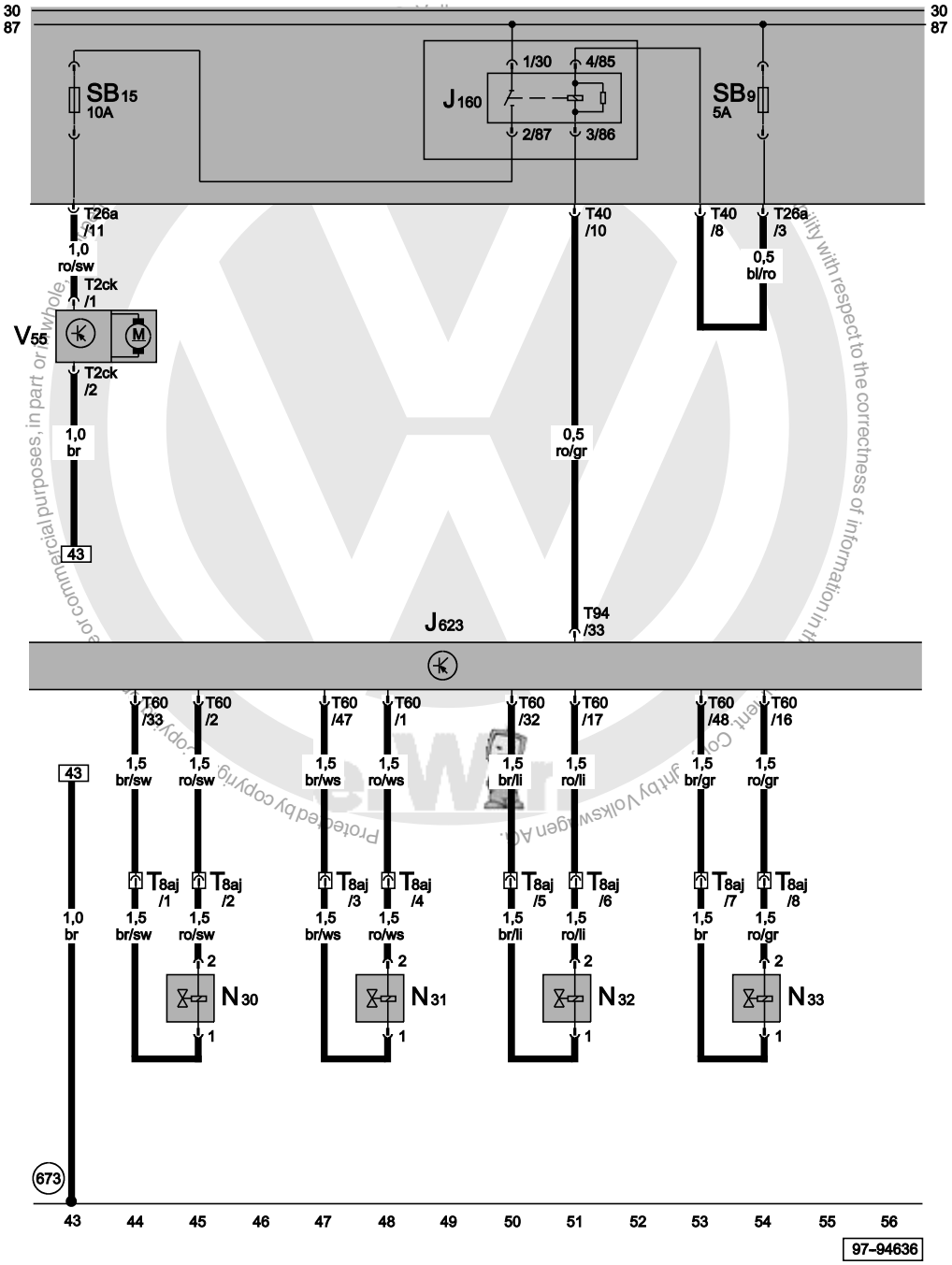


Engine control unit, ignition coils 1 to 4 with output stage, spark plugs, spark plug connector

J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
SB6	Fuse 6 on fuse holder B
SB11	Fuse 11 on fuse holder B
T4cm	4-pin connector
T4cn	4-pin connector
T4co	4-pin connector
T4cp	4-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T26a	26-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T60	60-pin connector
T94	94-pin connector
306	Earth connection (ignition coils), in engine harness
458	Earth connection 3, in engine harness
652	Earth point for engine and gearbox earth
673	Earth point 3, on front of left longitudinal member
B356	Positive connection 7 (87a), in main wiring harness
D181	Connection 2 (87a), in engine compartment wiring harness

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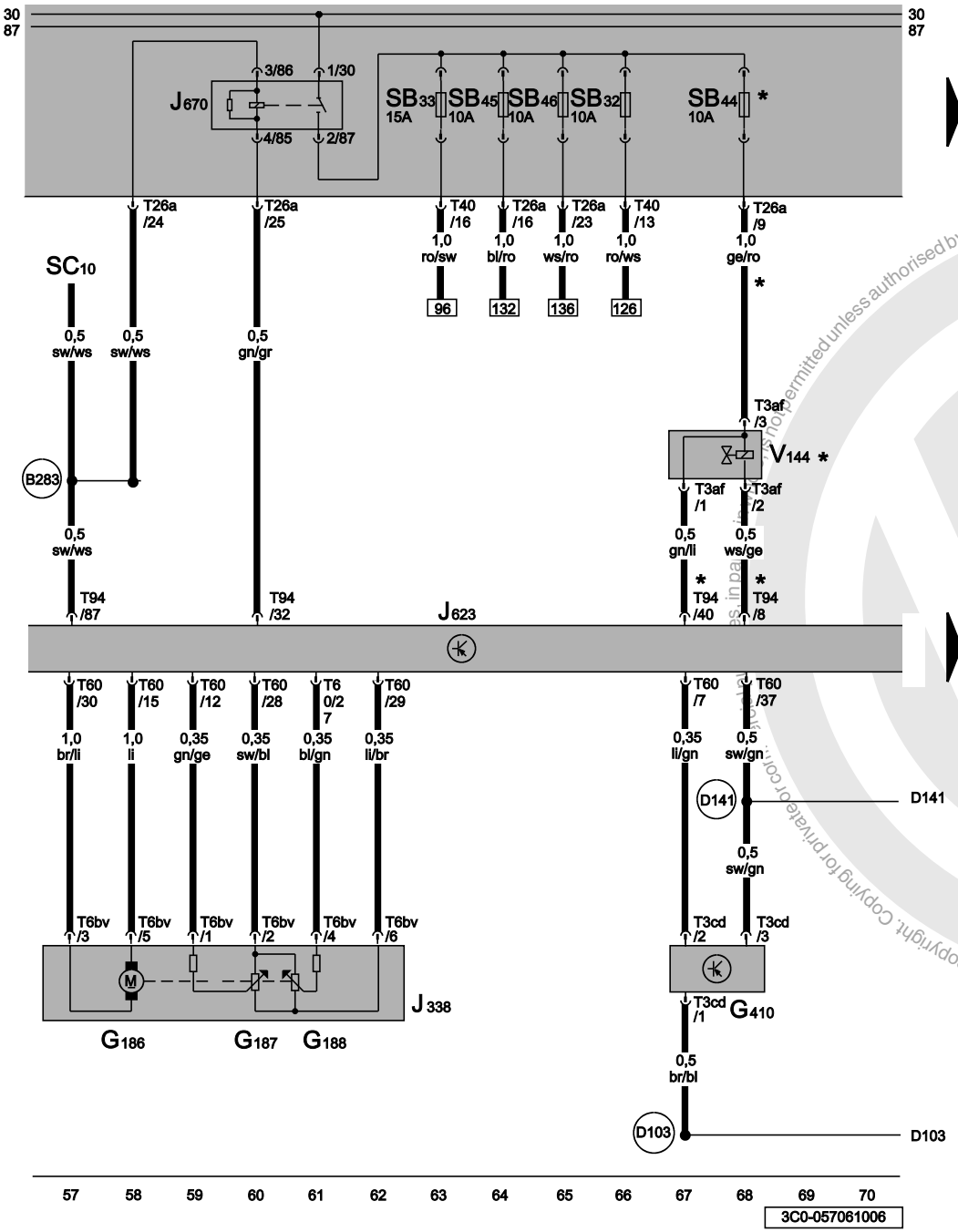


Engine control unit, injector, cylinder 1-4, circulation pump, circulation pump relay

J160	Circulation pump relay
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
SB9	Fuse 9 on fuse holder B
SB15	Fuse 15 on fuse holder B
T2ck	2-pin connector
T8aj	8-pin connector, near cylinder head
T26a	26-pin connector, on electronics box
T40	40-pin connector, under electronics box, in engine compartment
T60	60-pin connector
T94	94-pin connector
V55	Circulation pump
673	Earth point 3, on front of left longitudinal member

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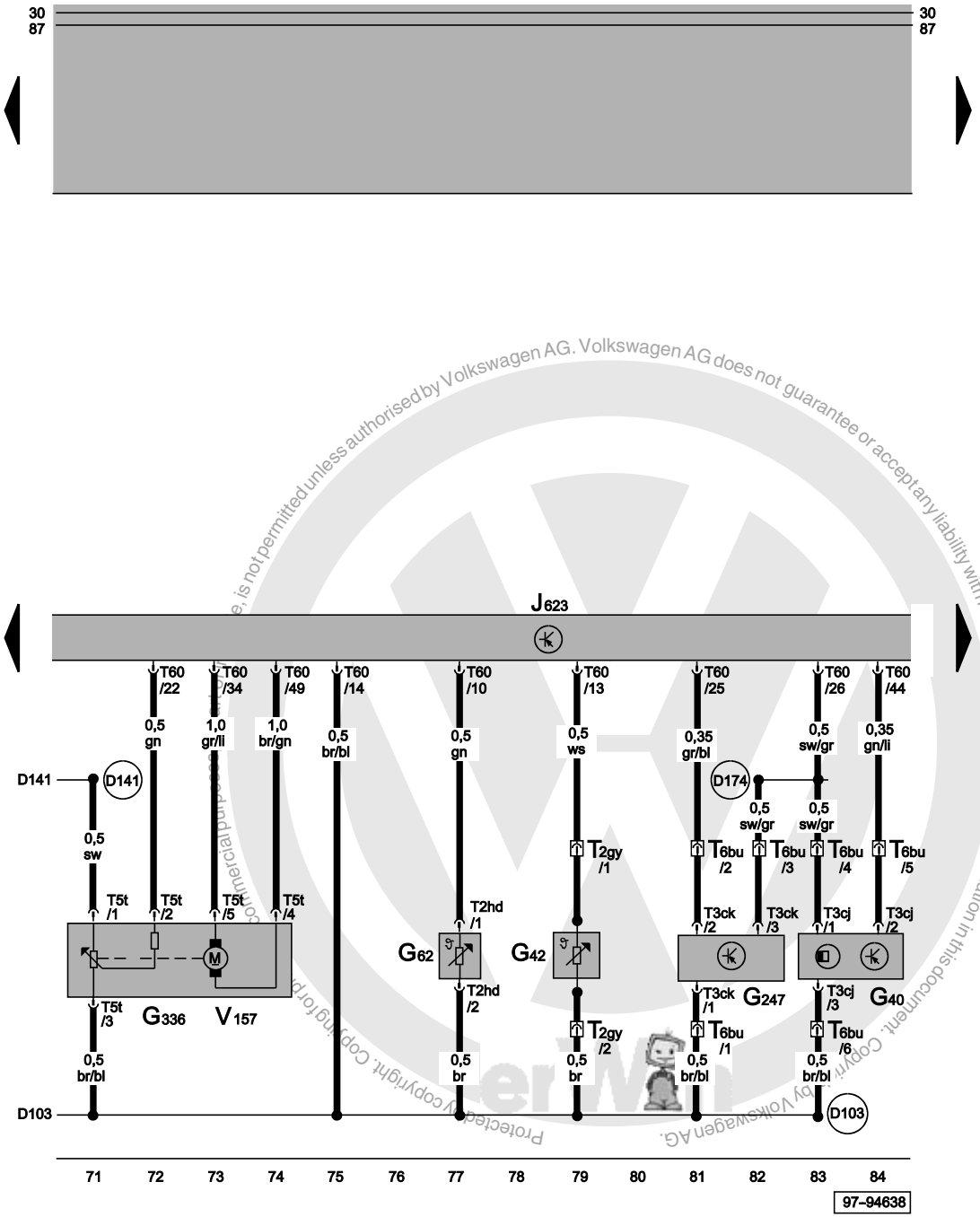


Engine control unit, throttle valve module, fuel pressure sender for low pressure

G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
G410	Fuel pressure sender for low pressure
J338	Throttle valve module
J623	Engine control unit
J670	Motronic current supply relay 2
SB32	Fuse 32 on fuse holder B
SB33	Fuse 33 on fuse holder B
SB44	Fuse 44 on fuse holder B
SB45	Fuse 45 on fuse holder B
SB46	Fuse 46 on fuse holder B
SC10	Fuse 10 on fuse holder B
T3af	3-pin connector
T3cd	3-pin connector
T6bv	6-pin connector
T26a	26-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T60	60-pin connector
T94	94-pin connector
V144	Fuel system diagnostic pump, rear right
B283	Positive connection 7 (15a), in main wiring harness
D103	Connection 3, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness
*	for models with engine code BPY only

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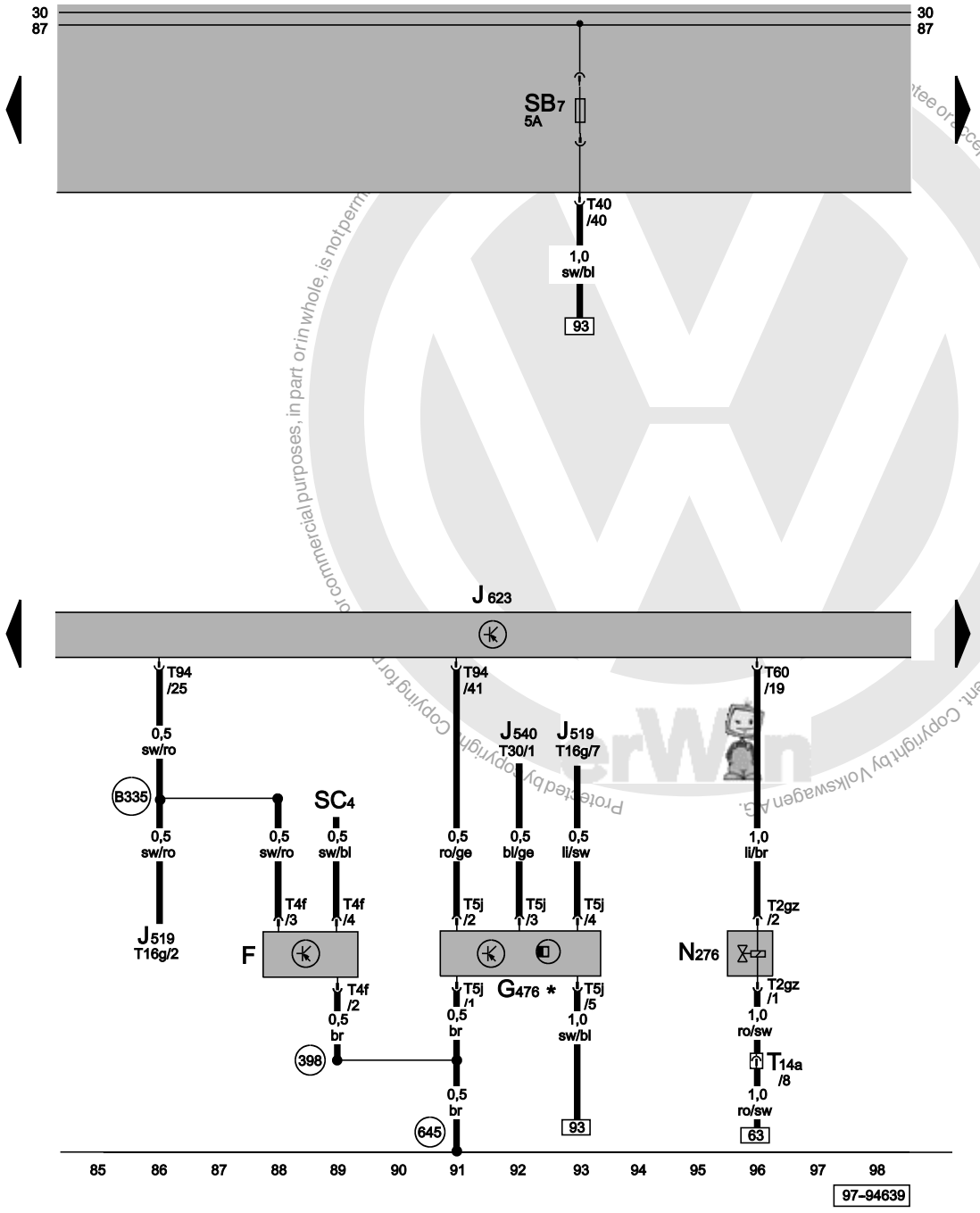


Engine control unit, intake air temperature sender, fuel pressure sender, coolant temperature sender, intake manifold flap

G40	Hall sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G247	Fuel pressure sender
G336	Intake manifold flap potentiometer
J623	Engine control unit
T2gy	2-pin connector
T2hd	2-pin connector
T3cj	3-pin connector
T3ck	3-pin connector
T5t	5-pin connector
T6bu	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor
D103	Connection 3, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness
D174	Connection 2 (5V), in engine wiring harness

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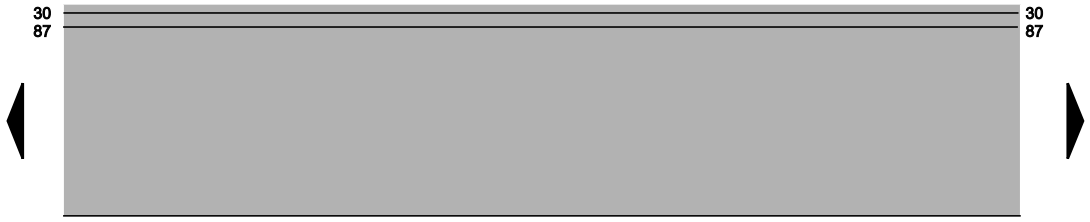


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Engine control unit, fuel pressure regulating valve, clutch position sender, brake light switch

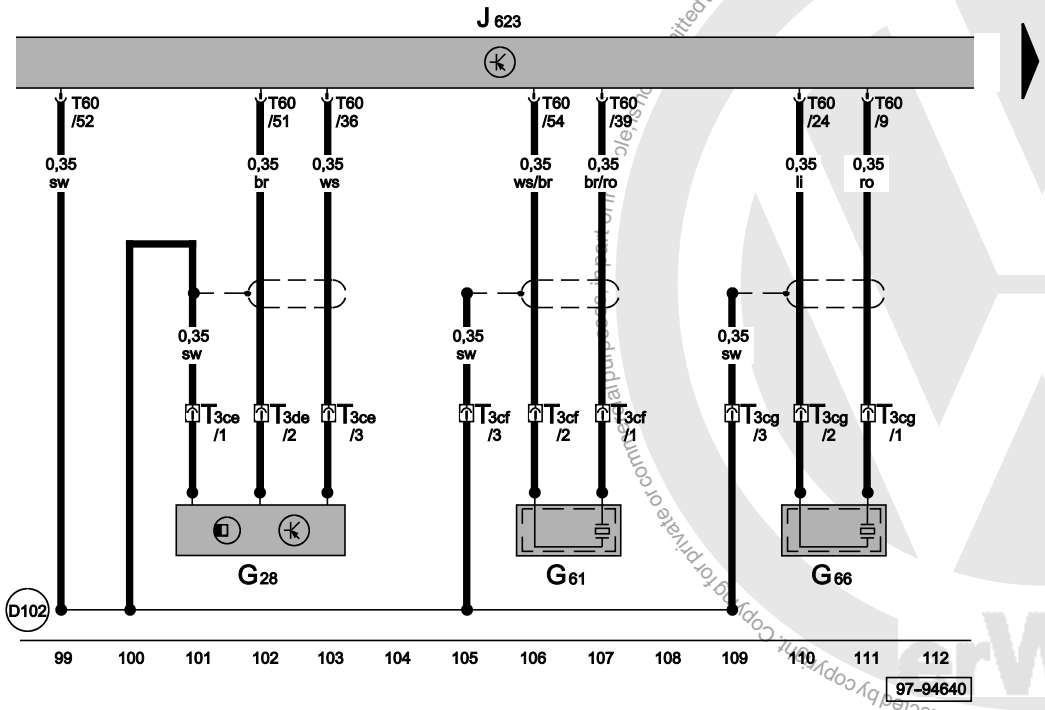
F	Brake light switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Electric park and handbrake control unit
J623	Engine control unit
N276	Fuel pressure regulating valve
SB7	Fuse 7 on fuse holder B
SC4	Fuse 4 on fuse holder C
T2gz	2-pin connector
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T16g	16-pin connector, black
T30	30-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
*	models with manual gearbox

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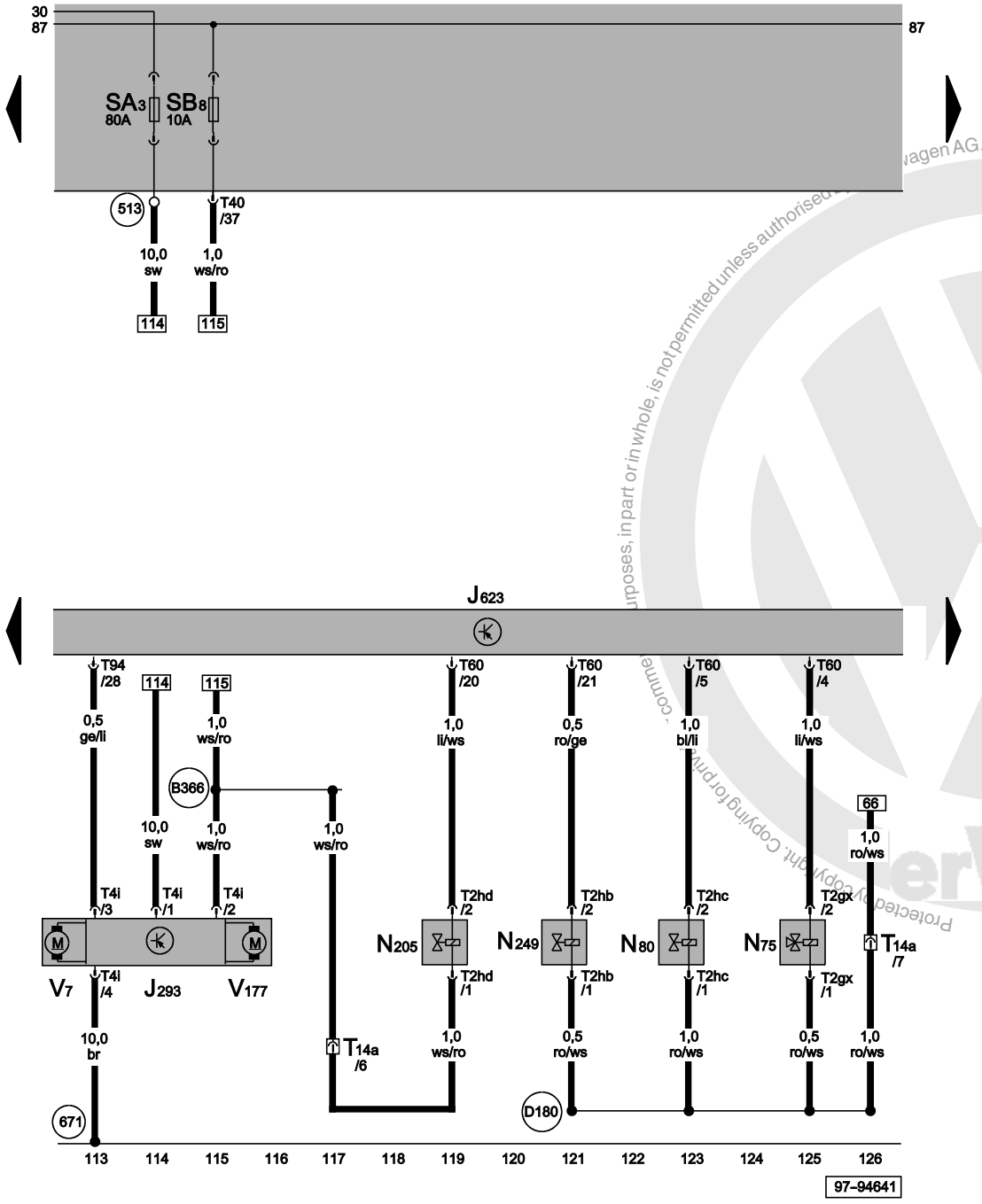
Engine control unit, engine speed sender, knock sensors 1 and 2

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J623	Engine control unit
T3ce	3-pin connector
T3cf	3-pin connector
T3cg	3-pin connector
T60	60-pin connector
D102	Connection 2, in engine compartment wiring harness



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sw	=	black
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gn	=	green
bl	=	blue
gr	=	grey
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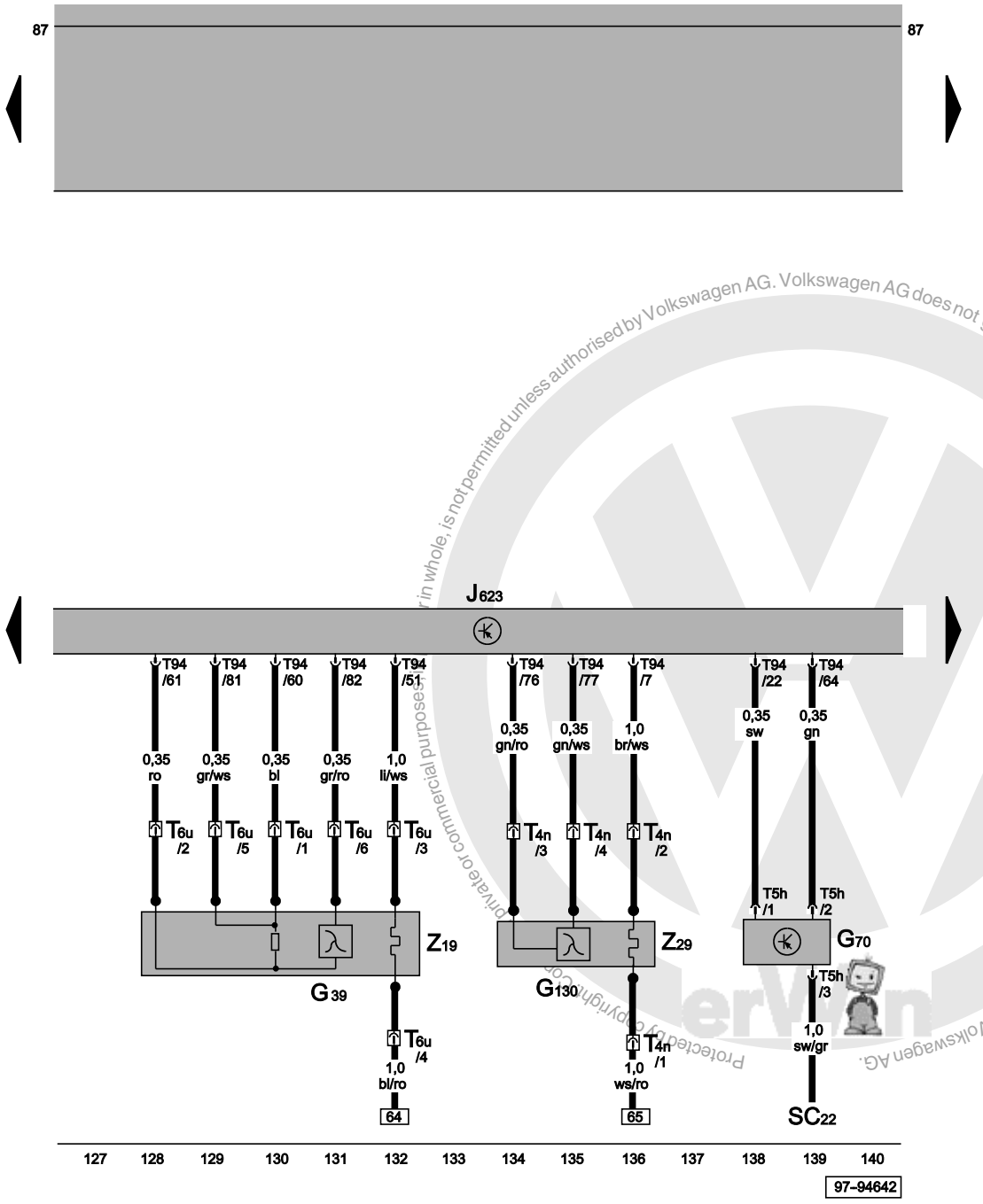


Engine control unit, radiator fan control unit, activated charcoal filter system solenoid valve 1, inlet camshaft control valve 1

J293	Radiator fan control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N80	Activated charcoal filter system solenoid valve 1
N205	Inlet camshaft control valve 1
N249	Turbocharger air recirculation valve
SA3	Fuse 3 on fuse holder A
SB8	Fuse 8 on fuse holder B
T2hb	2-pin connector
T2hc	2-pin connector
T2hd	2-pin connector
T2gx	4-pin connector
T4i	4-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
513	Screw connection 3 (30a), on relay plate
671	Earth point 1, on front of left longitudinal member
B366	Positive connection 7 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness

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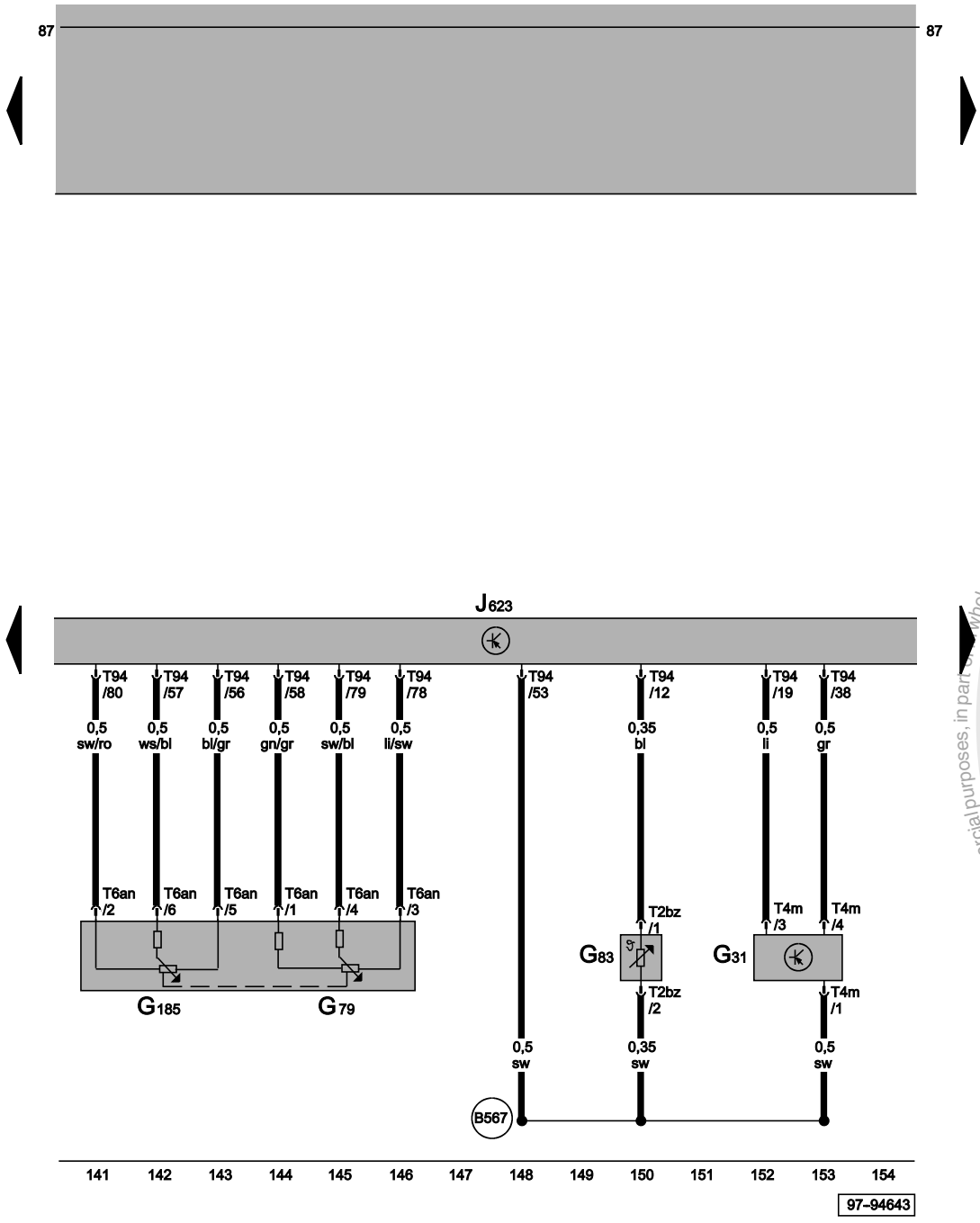


Engine control unit, air mass meter, lambda probe

G39	Lambda probe
G70	Air mass meter
G130	Lambda probe after catalytic converter
J623	Engine control unit
SC22	Fuse 22 on fuse holder C
T4n	4-pin connector, connector point lambda probe
T5h	5-pin connector
T6u	6-pin connector, black, coupling point lambda probe
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter

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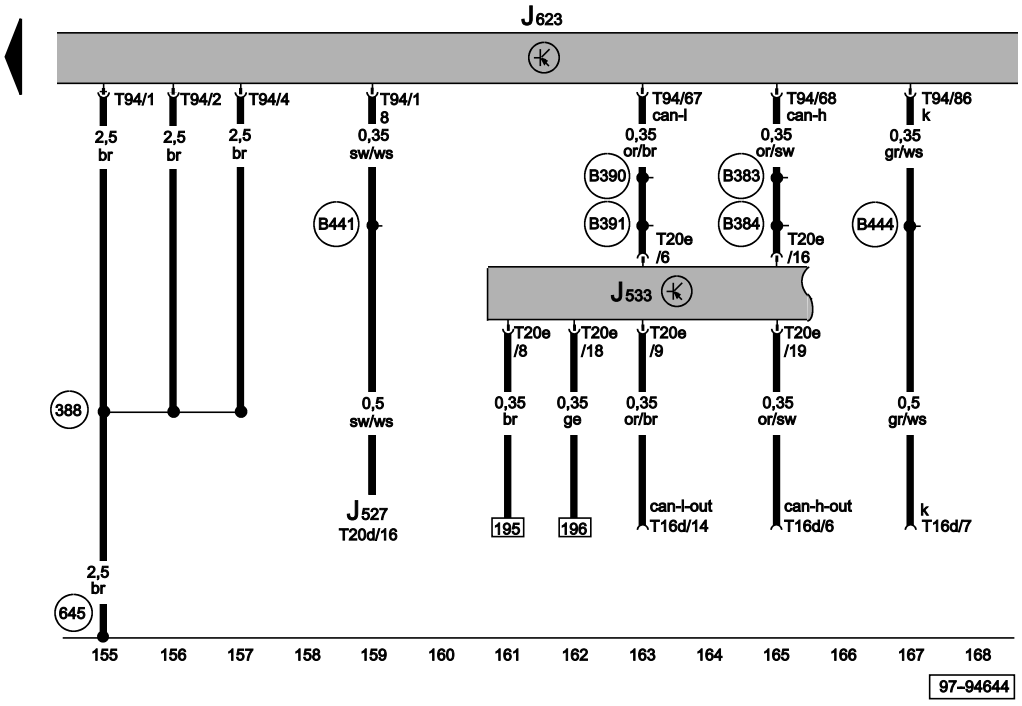


Engine control unit, accelerator position sender, charge air pressure sender, coolant temperature sender

G31	Charge air pressure sender
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J623	Engine control unit
T2bz	2-pin connector
T4m	4-pin connector
T6an	6-pin connector
T94	94-pin connector
B567	Connection 34, in main wiring harness

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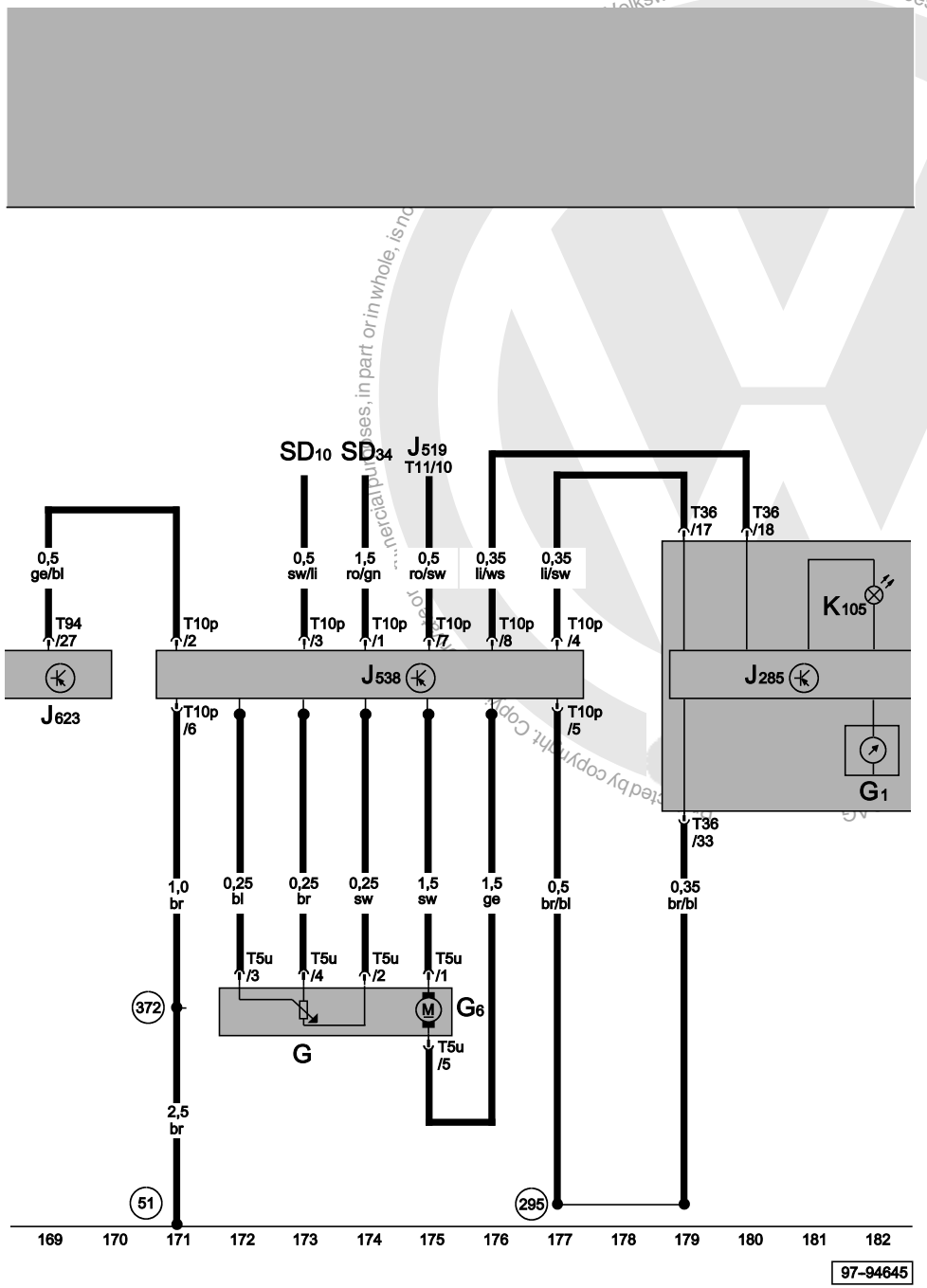
Engine control unit, data bus diagnostic interface, self-diagnosis connection

J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J623	Engine control unit
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T20d	20-pin connector
T94	94-pin connector
388	Earth connection 23, in main wiring harness
645	Earth point 1, on bulkhead
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

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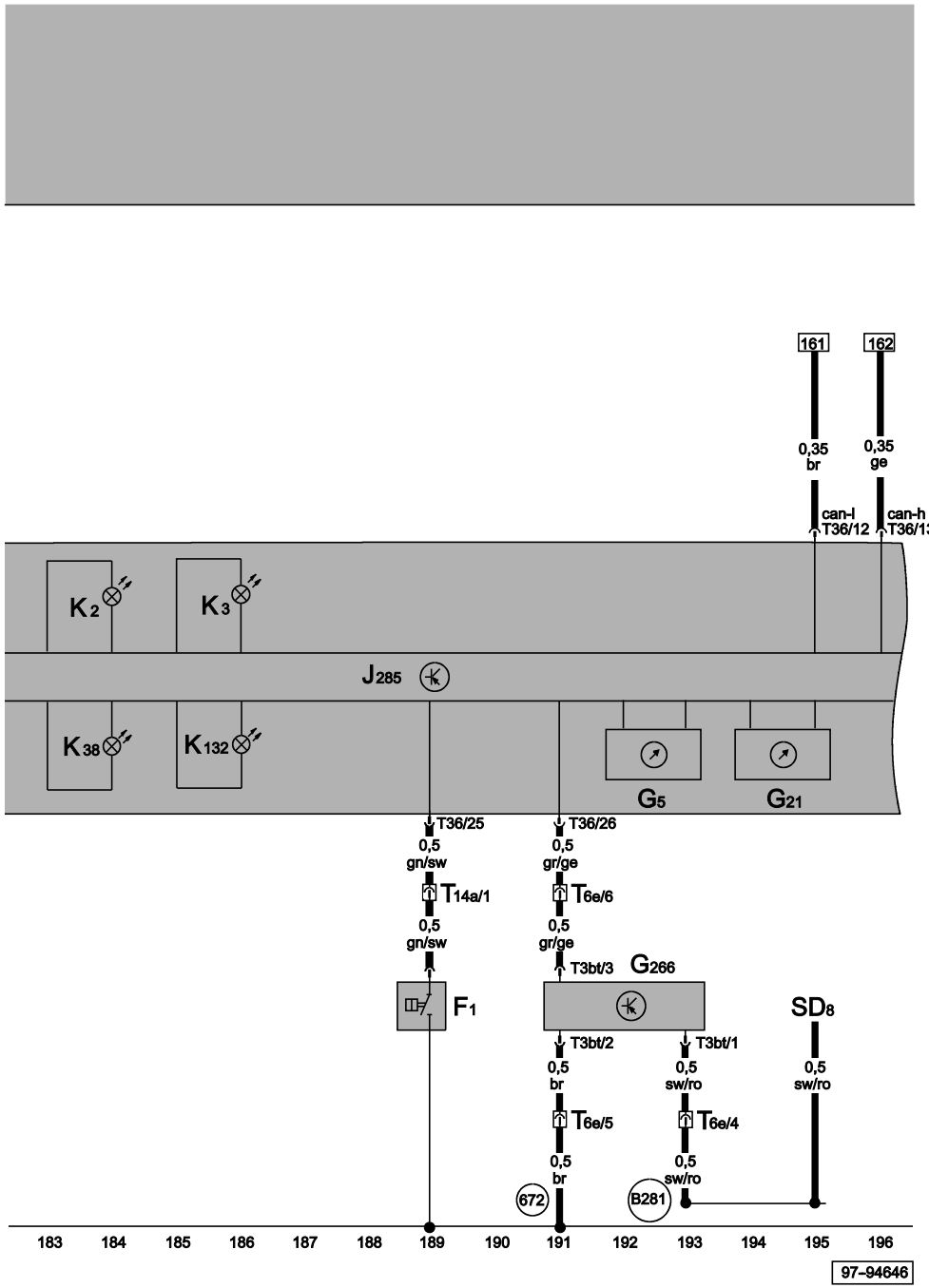
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Engine control unit, fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G6	Fuel system pressurisation pump
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J538	Fuel pump control unit
J623	Engine control unit
K105	Reserve fuel warning lamp
SD10	Fuse 10 on fuse holder D
SD34	Fuse 34 on fuse holder D
T5u	5-pin connector
T10p	10-pin connector
T11	11-pin connector, black
T36	36-pin connector
T94	94-pin connector
51	Earth point, on right in luggage compartment
295	Earth connection 10, in interior wiring harness
372	Earth connection 7, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender, rev. counter, speedometer

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K38	Oil level warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T3bt	3-pin connector
T6e	6-pin connector, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness

ws	=	white
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2.0 l/147 kW Motronic, engine code AXX
from May 2005

2.0 l/147 kW Motronic, engine code BPY
from May 2005

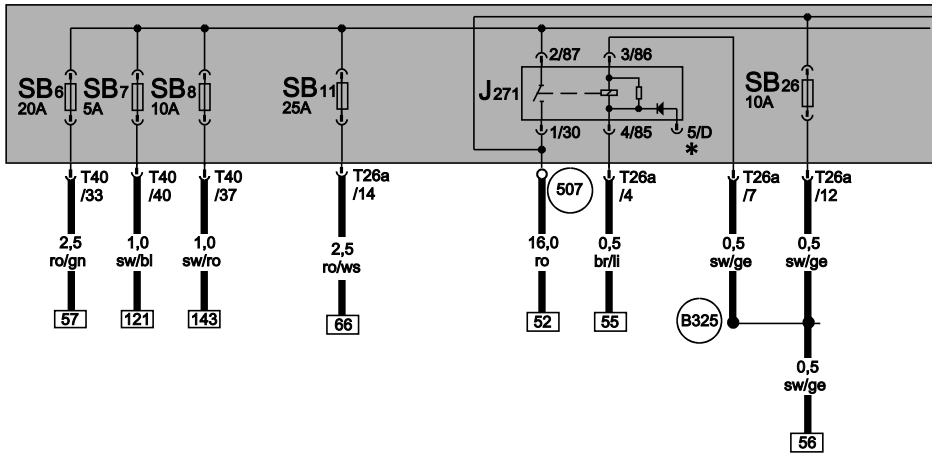
2.0 l/147 kW Motronic, engine code BWA
from May 2005

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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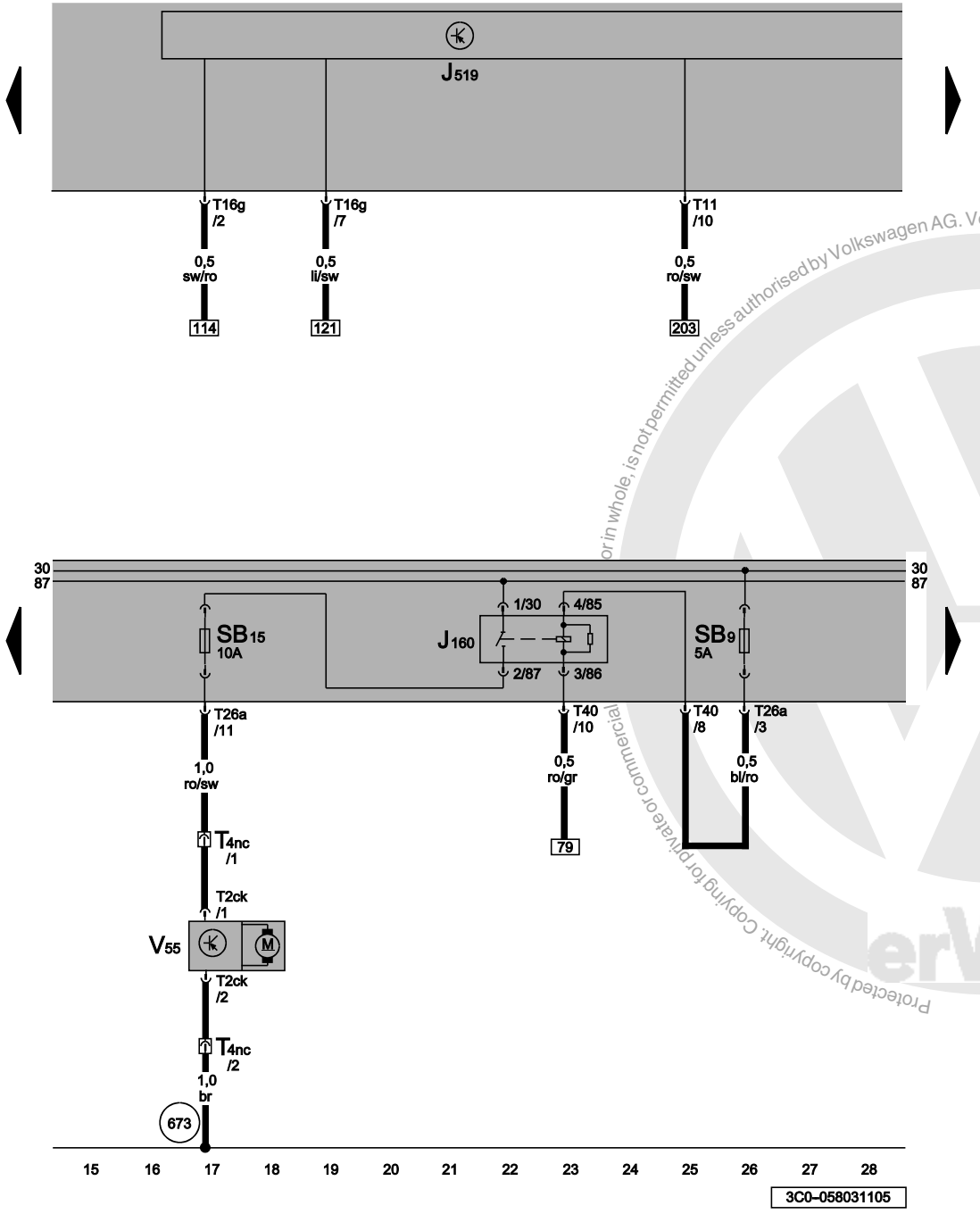


SB-fuses, Motronic current supply relay

J271	Motronic current supply relay
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB8	Fuse 8 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB26	Fuse 26 on fuse holder B
T26a	26-pin connector, on electronics box
T40	40-pin connector, under electronics box, in engine compartment
507	Screw connection (30), on fuse holder on battery
B325	Positive connection 11 (30a), in main wiring harness
*	up to November 2005

ws	=	white
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Circulation pump relay, onboard supply control unit, SB-fuses, circulation pump

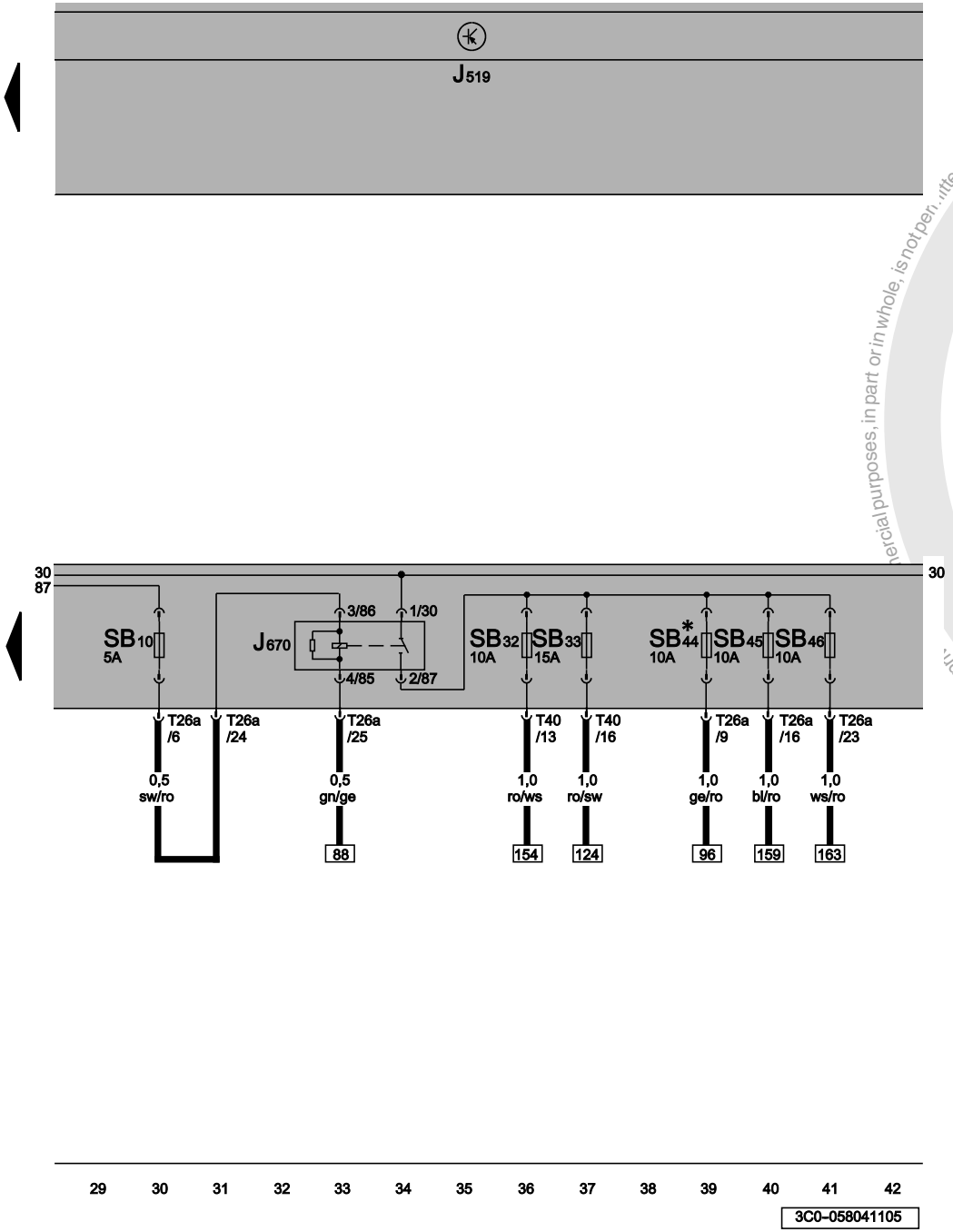
J160	Circulation pump relay
J519	Onboard supply control unit
SB9	Fuse 9 on fuse holder B
SB15	Fuse 15 on fuse holder B
T2ck	2-pin connector, black
T4nc	4-pin connector, black
T11	11-pin connector, black
T16g	16-pin connector, black
T26a	26-pin connector, on electronics box
T40	40-pin connector, under electronics box, in engine compartment
V55	Circulation pump
673	Earth point 3, on front of left longitudinal member

ws = white
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ro = red
br = brown
gn = green
bl = blue
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li = purple
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or = orange
rs = pink

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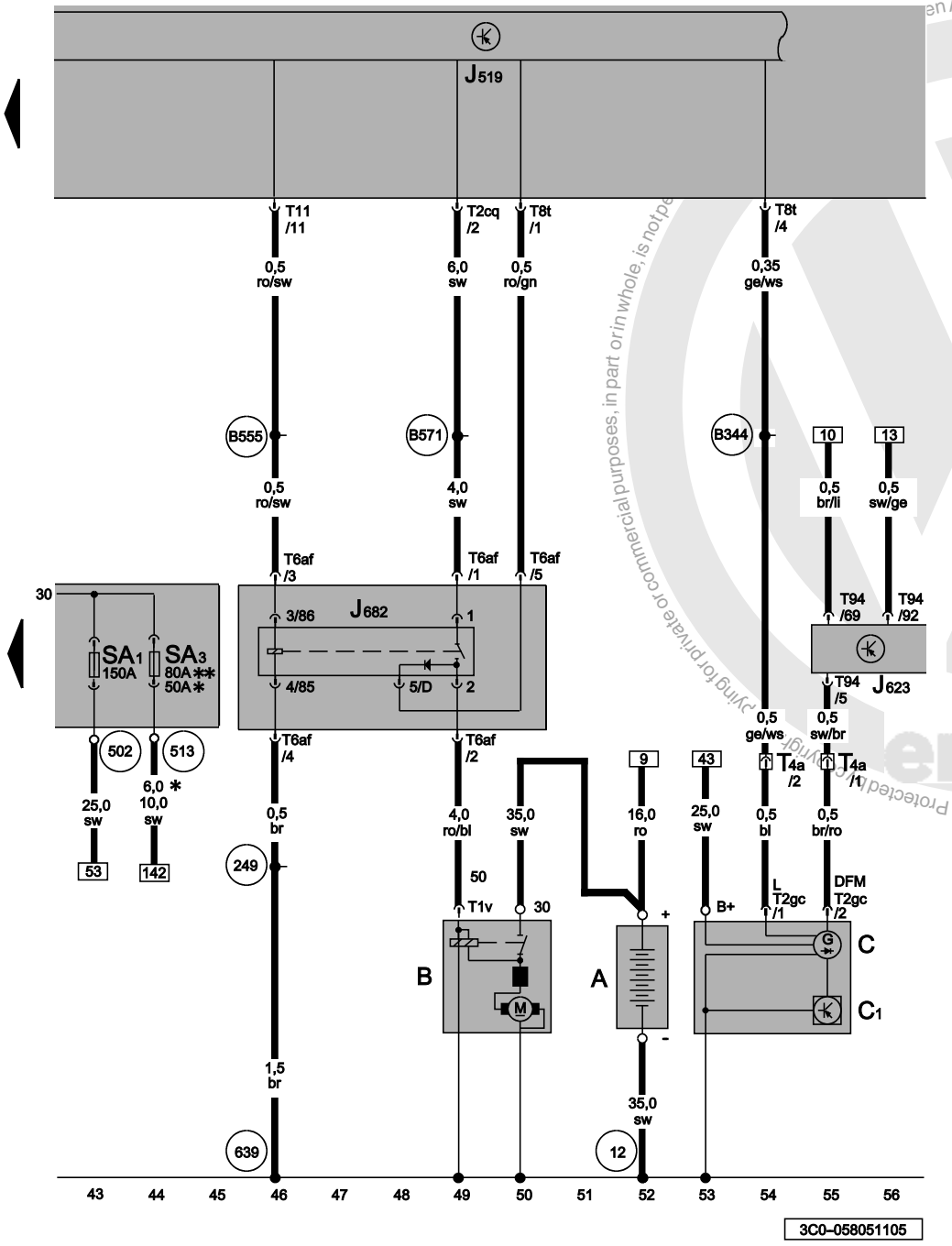
Onboard supply control unit, SB-fuses, Motronic current supply relay 2

J519	Onboard supply control unit
J670	Motronic current supply relay 2
SB10	Fuse 10 on fuse holder B
SB32	Fuse 32 on fuse holder B
SB33	Fuse 33 on fuse holder B
SB44	Fuse 44 on fuse holder B
SB45	Fuse 45 on fuse holder B
SB46	Fuse 46 on fuse holder B
T26a	26-pin connector, on electronics box
T40	40-pin connector, under electronics box, in engine compartment
*	for models with engine code BPY only



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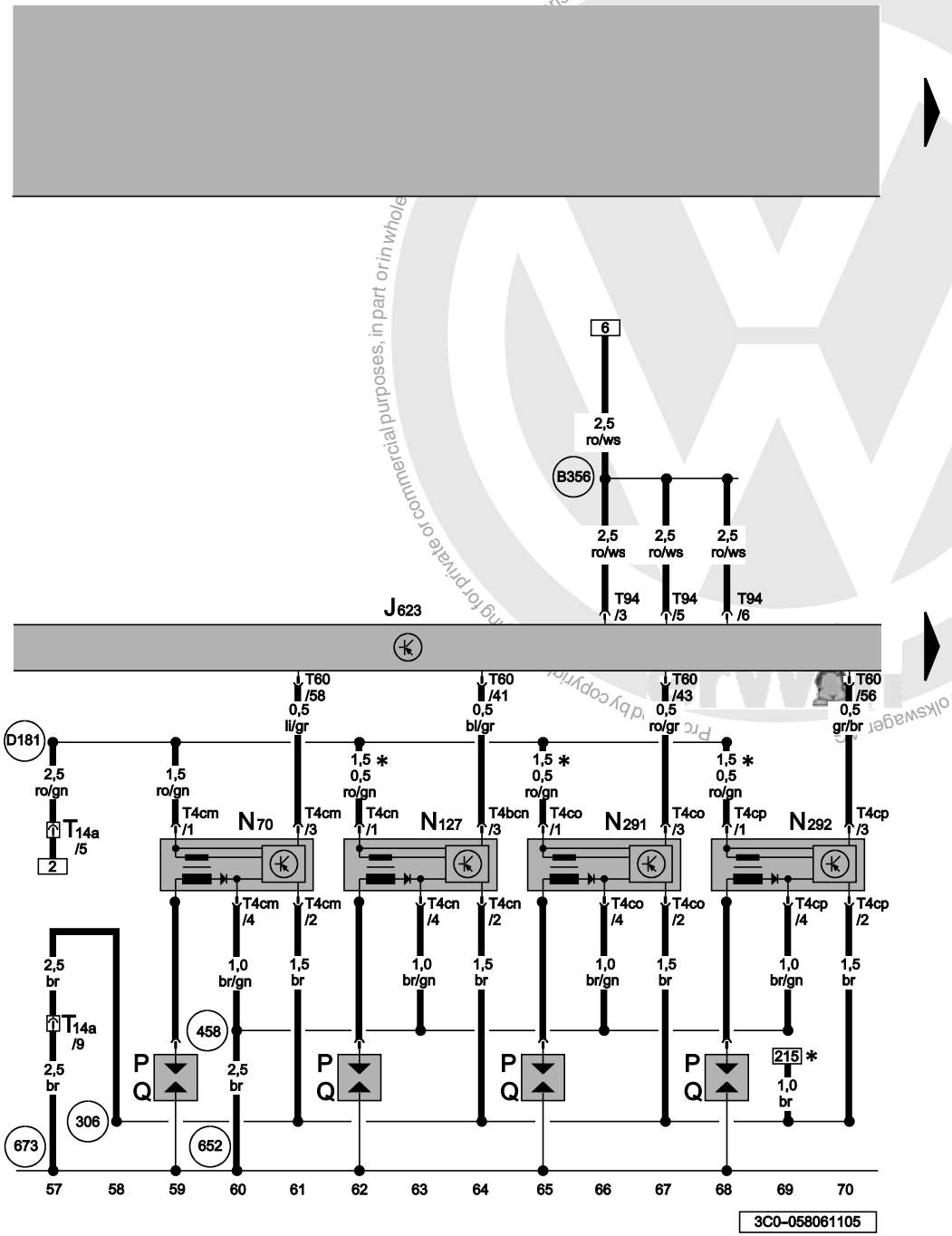
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Terminals 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
T1v	Single connector
T2cq	2-pin connector, black
T2gc	2-pin connector
T4a	4-pin connector, near starter
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
T94	94-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
502	Screw connection 1 (30a), on relay plate
513	Screw connection 3 (30a), on relay plate
639	Earth point, left A-pillar
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	from November 2005
**	up to November 2005

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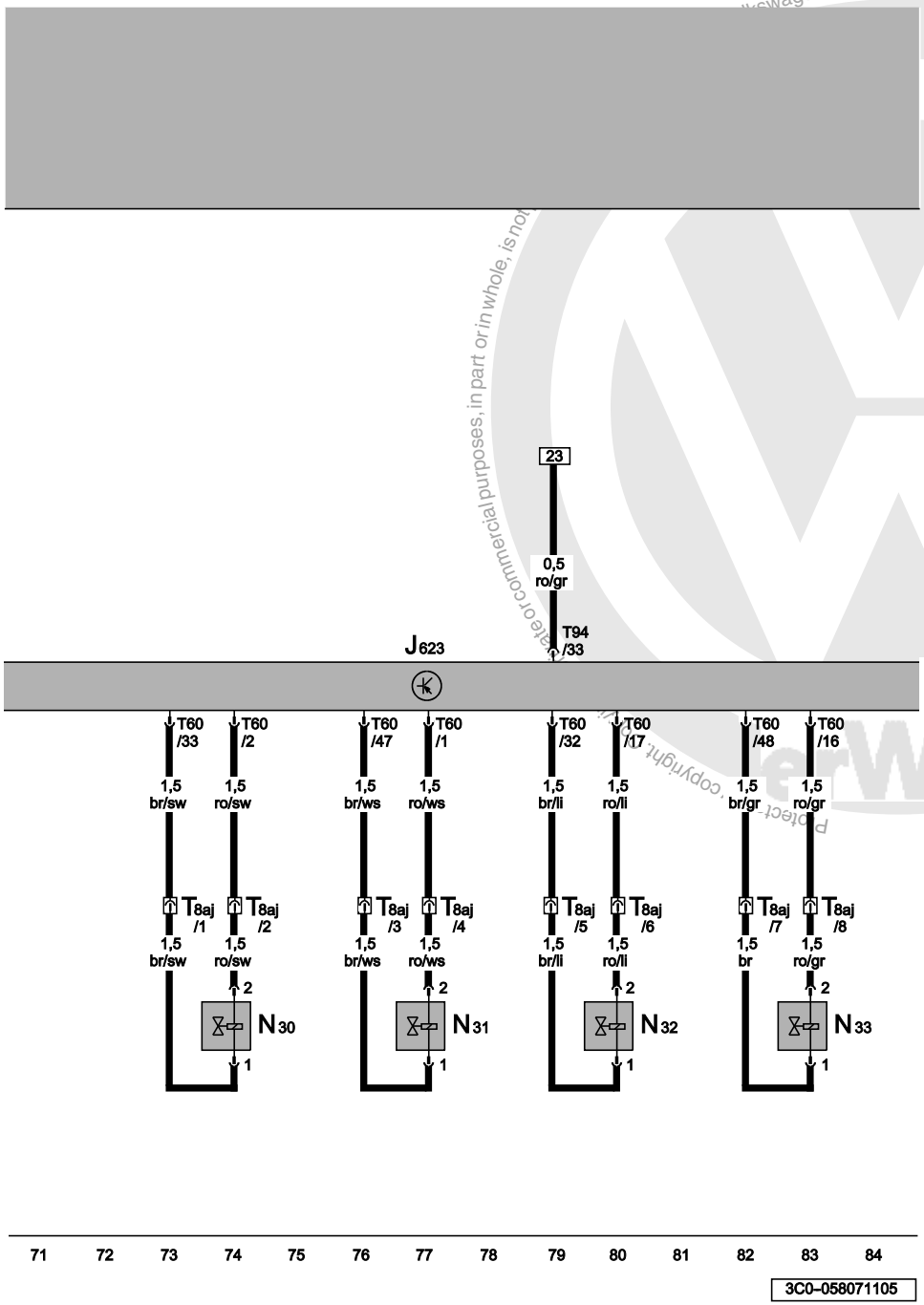
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Engine control unit, ignition coils 1 to 4 with output stage, spark plugs, spark plug connector

J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4cm	4-pin connector, black
T4cn	4-pin connector
T4co	4-pin connector
T4cp	4-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T60	60-pin connector
T94	94-pin connector
306	Earth connection (ignition coils), in engine harness
458	Earth connection 3, in engine harness
652	Earth point for engine and gearbox earth
673	Earth point 3, on front of left longitudinal member
B356	Positive connection 7 (87a), in main wiring harness
D181	Connection 2 (87a), in engine compartment wiring harness
*	from November 2005

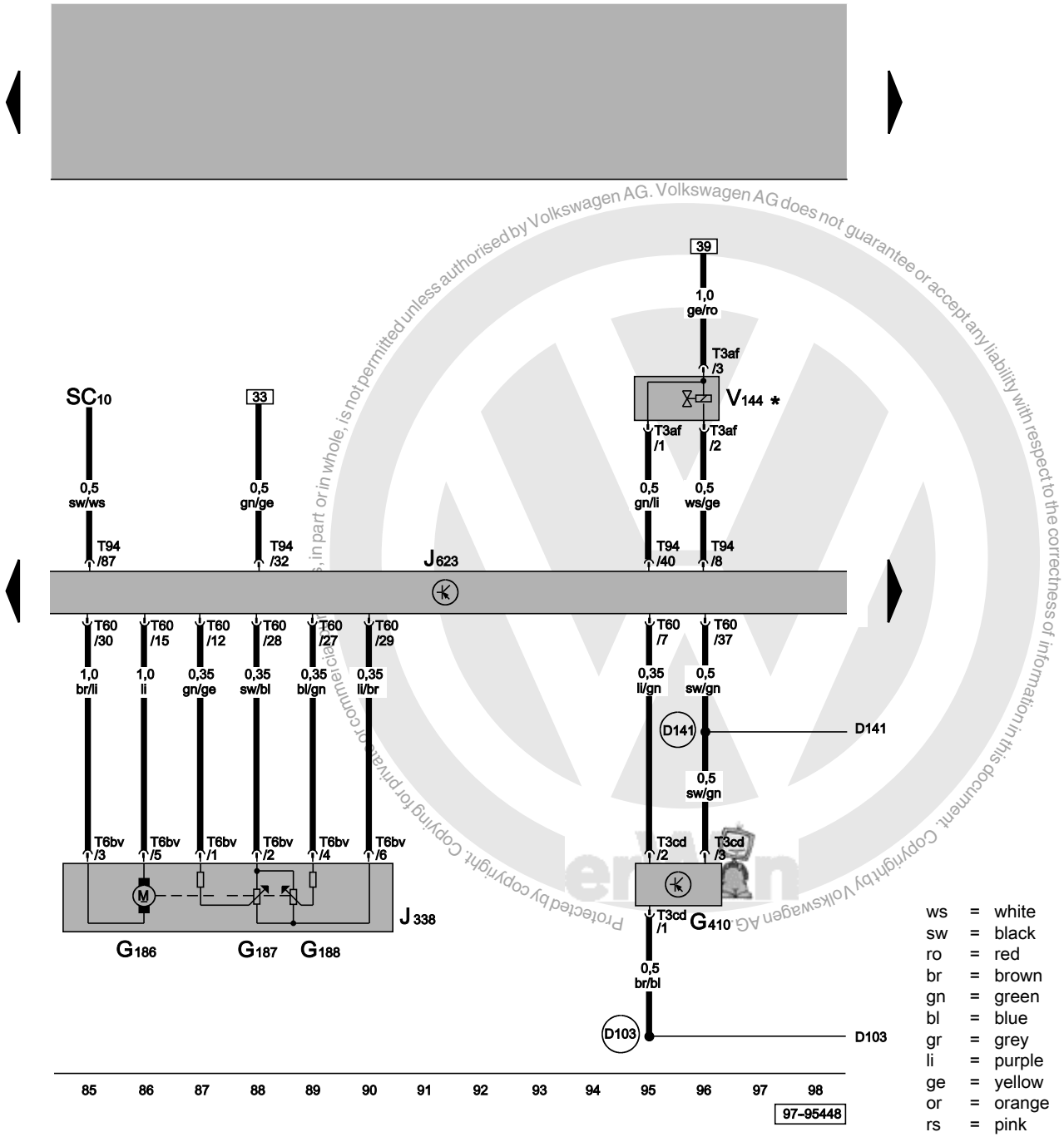
Engine control unit, injectors for cylinders 1-4

J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8aj	8-pin connector, black, near cylinder head
T60	60-pin connector
T94	94-pin connector



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Engine control unit, throttle valve module, fuel pressure sender for low pressure

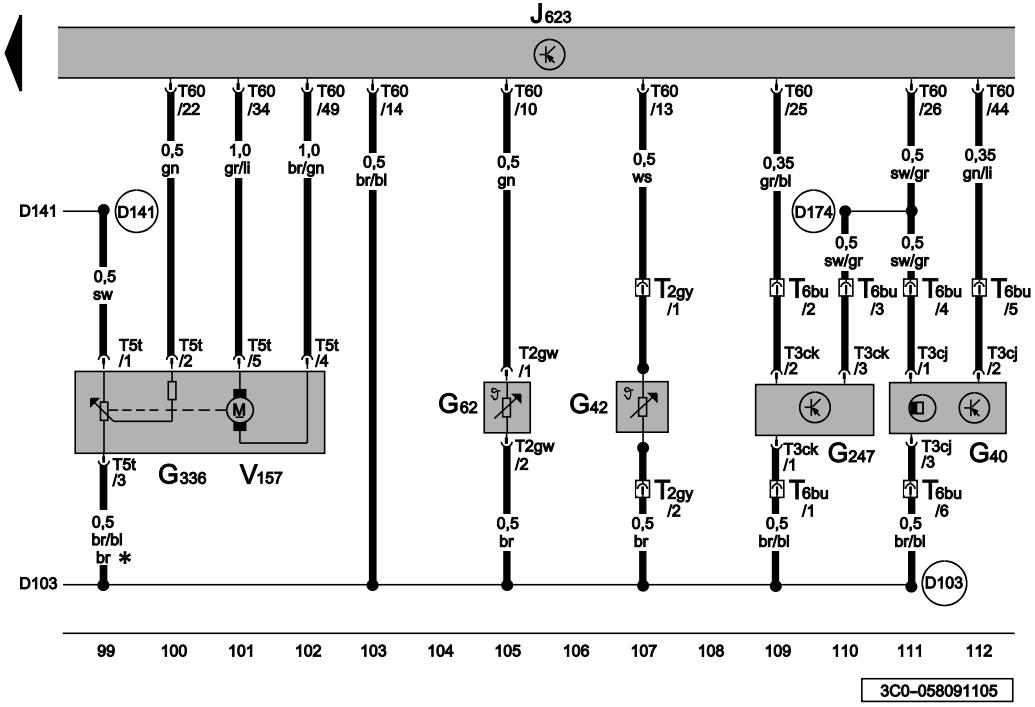
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
G410	Fuel pressure sender for low pressure
J338	Throttle valve module
J623	Engine control unit
SC10	Fuse 10 on fuse holder C
T3af	3-pin connector
T3cd	3-pin connector
T6bv	6-pin connector
T60	60-pin connector
T94	94-pin connector
V144	Fuel system diagnostic pump, rear right
D103	Connection 3, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness
*	for models with engine code BPY only

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Engine control unit, intake air temperature sender, fuel pressure sender, coolant temperature sender, intake manifold flap potentiometer

G40	Hall sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G247	Fuel pressure sender
G336	Intake manifold flap potentiometer
J623	Engine control unit
T2gy	2-pin connector
T2gw	2-pin connector, black
T3cj	3-pin connector
T3ck	3-pin connector
T5t	5-pin connector
T6bu	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor
D103	Connection 3, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness
D174	Connection 2 (5V), in engine wiring harness
*	from November 2005

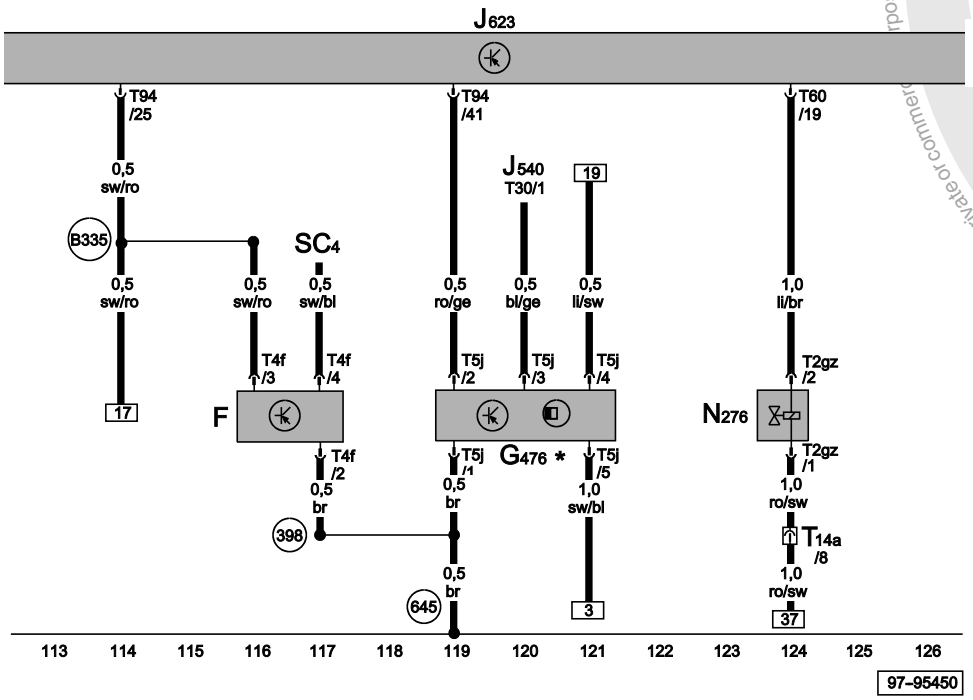


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Engine control unit, fuel pressure regulating valve, clutch position sender, brake light switch

F	Brake light switch
G476	Clutch position sender
J540	Electric park and handbrake control unit
J623	Engine control unit
N276	Fuel pressure regulating valve
SC4	Fuse 4 on fuse holder C
T2gz	2-pin connector, blue
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
*	models with manual gearbox

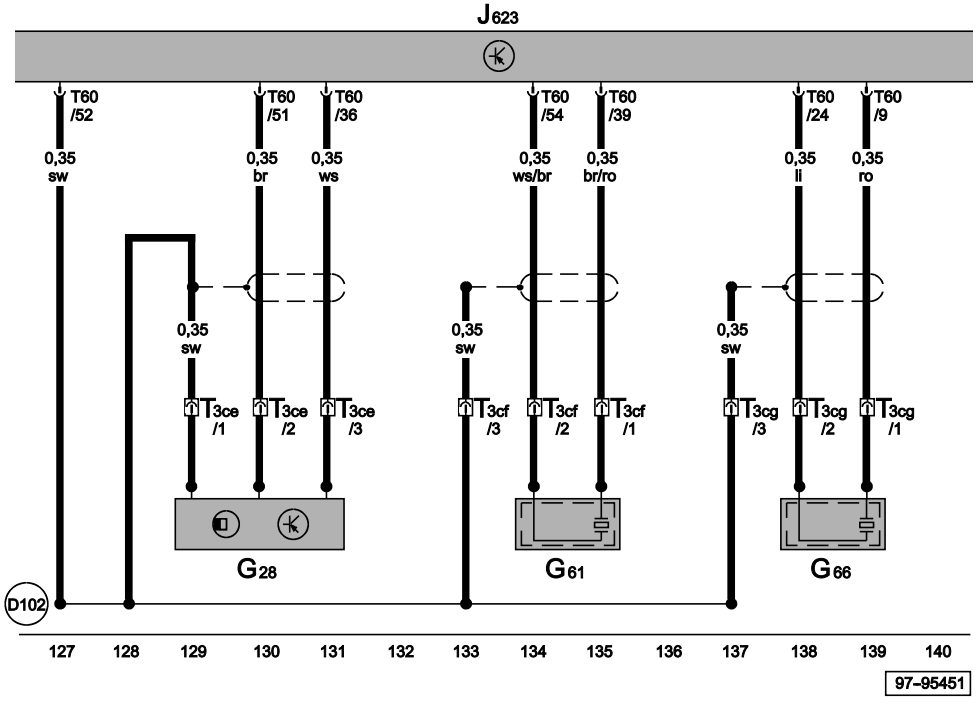


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Engine control unit, engine speed sender, knock sensors 1 and 2

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J623	Engine control unit
T3ce	3-pin connector, grey
T3cf	3-pin connector, green
T3cg	3-pin connector, brown
T60	60-pin connector
D102	Connection 2, in engine compartment wiring harness

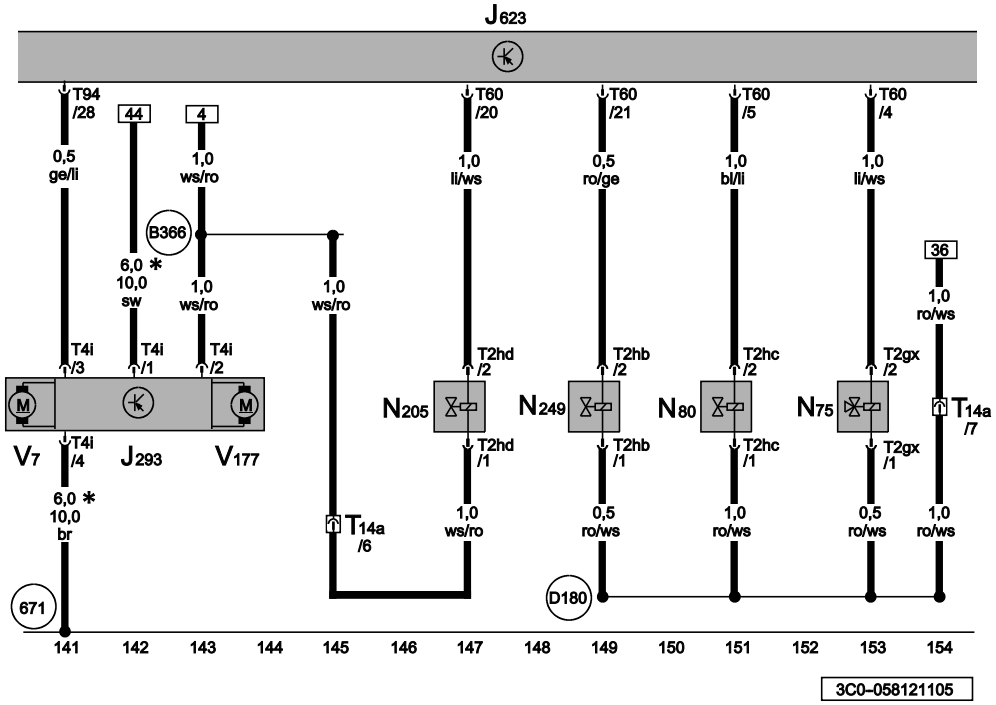


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Engine control unit, radiator fan control unit, activated charcoal filter system solenoid valve 1, inlet camshaft control valve 1

J293	Radiator fan control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N80	Activated charcoal filter system solenoid valve 1
N205	Inlet camshaft control valve 1
N249	Turbocharger air recirculation valve
T2hb	2-pin connector, brown
T2hc	2-pin connector, black
T2hd	2-pin connector, black
T2gx	2-pin connector, black
T4i	4-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B366	Positive connection 17 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness
*	from November 2005

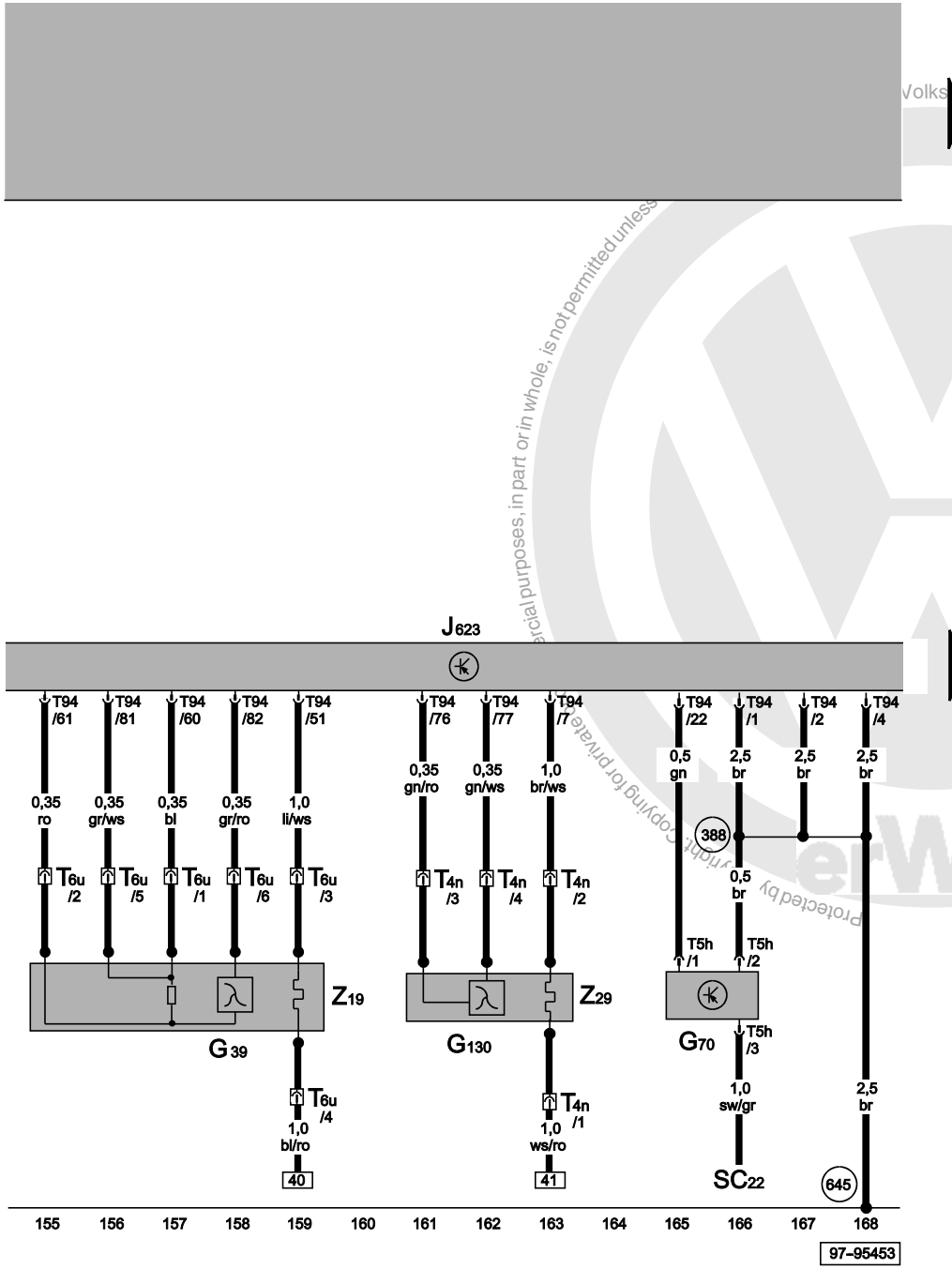


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Engine control unit, air mass meter, lambda probe, lambda probe after catalytic converter

G39	Lambda probe
G70	Air mass meter
G130	Lambda probe after catalytic converter
J623	Engine control unit
SC22	Fuse 22 on fuse holder C
T4n	4-pin connector, connector point lambda probe
T5h	5-pin connector
T6u	6-pin connector, black, coupling point lambda probe
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
(388)	Earth connection 23, in main wiring harness
(645)	Earth point 1, on bulkhead

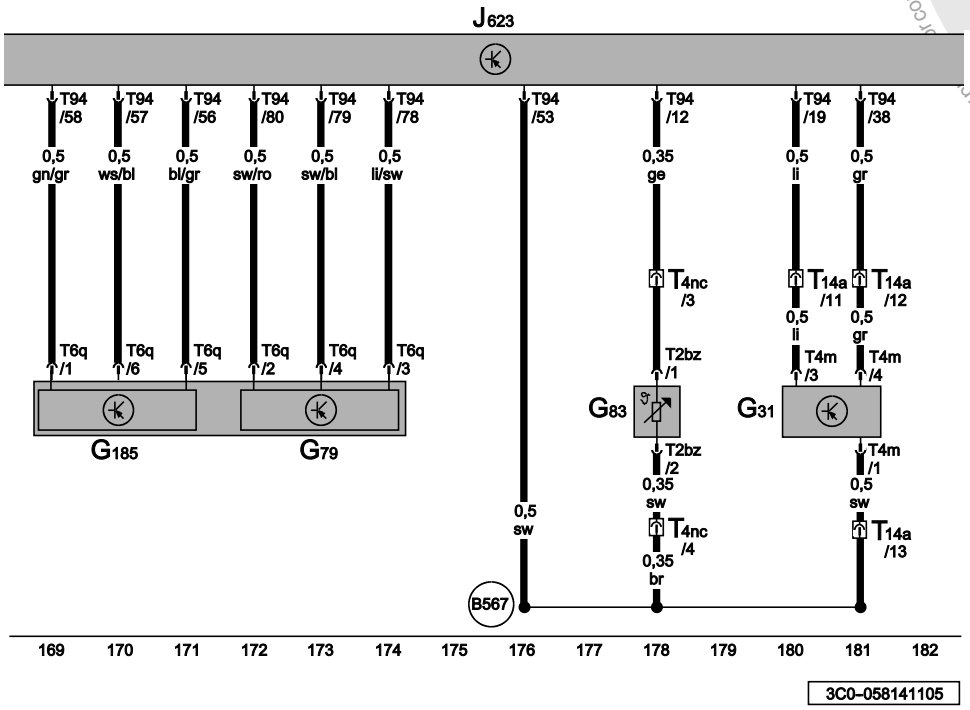


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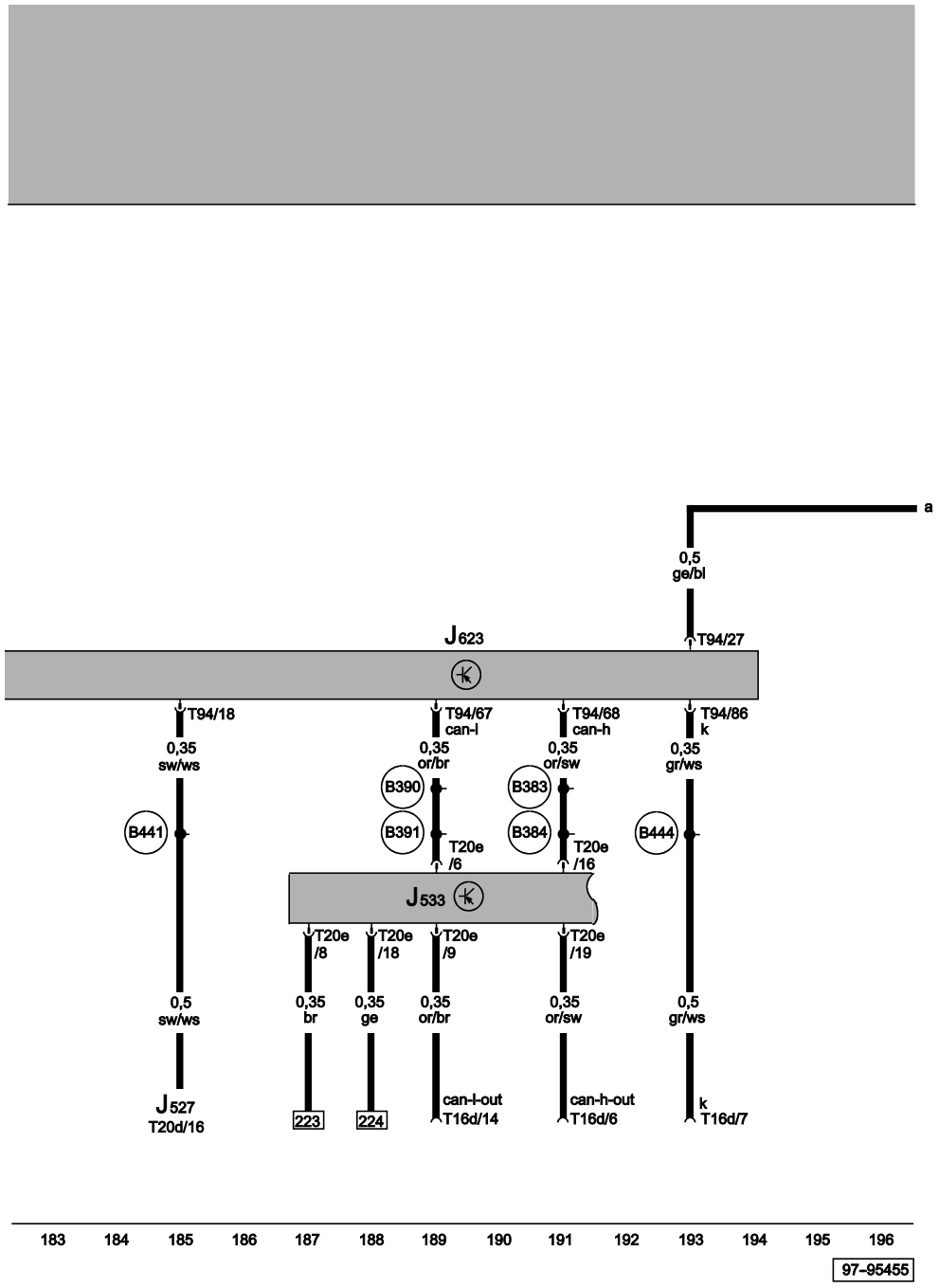
Engine control unit, accelerator position sender, charge air pressure sender, radiator outlet coolant temperature sender

G31	Charge air pressure sender
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J623	Engine control unit
T2bz	2-pin connector
T4m	4-pin connector, black
T4nc	4-pin connector, black
T6q	6-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T94	94-pin connector
B567	Connection 34, in main wiring harness



ws	=	white
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Engine control unit, data bus diagnostic interface, self-diagnosis connection

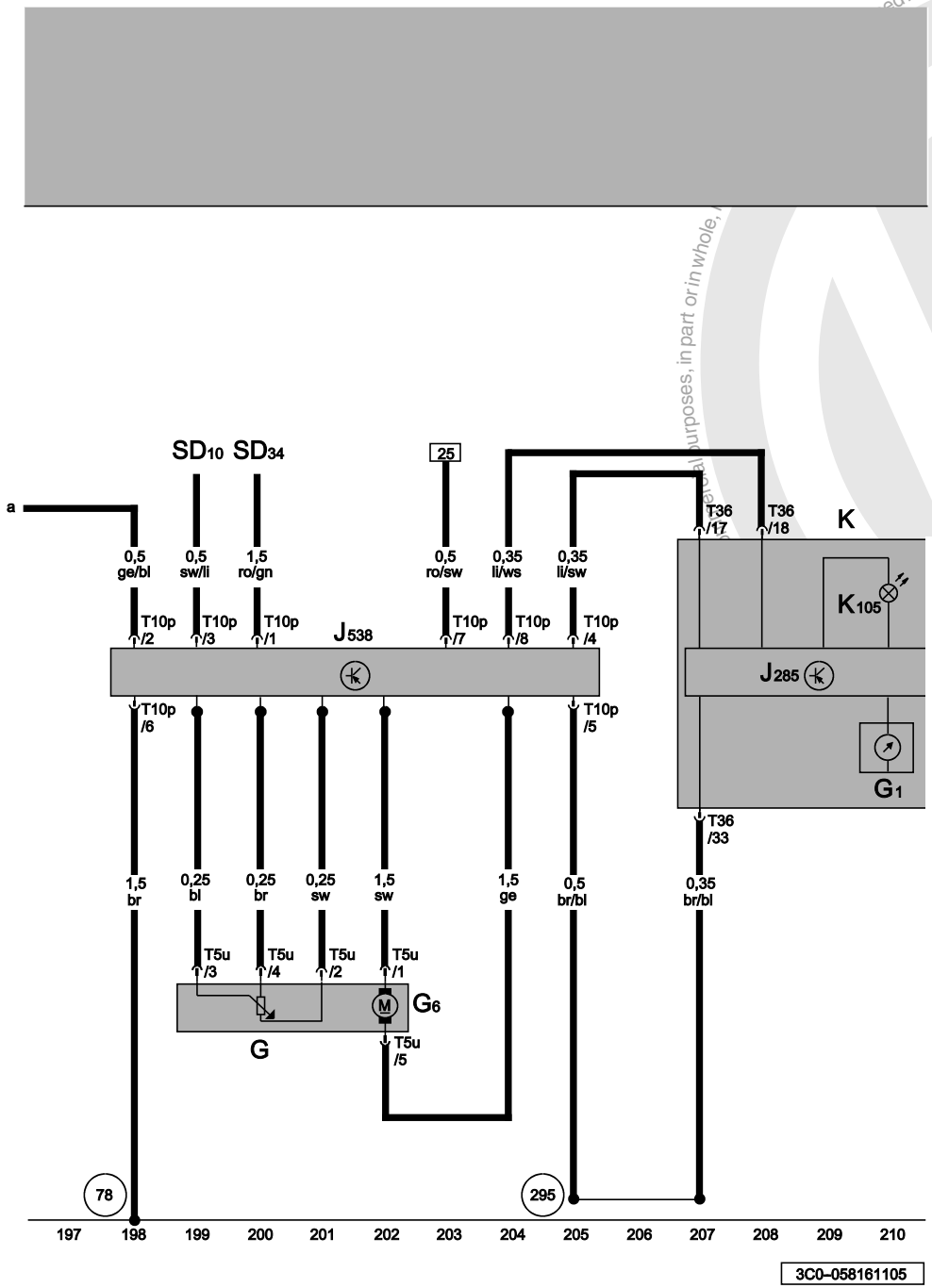
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J623	Engine control unit
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T20d	20-pin connector
T94	94-pin connector
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

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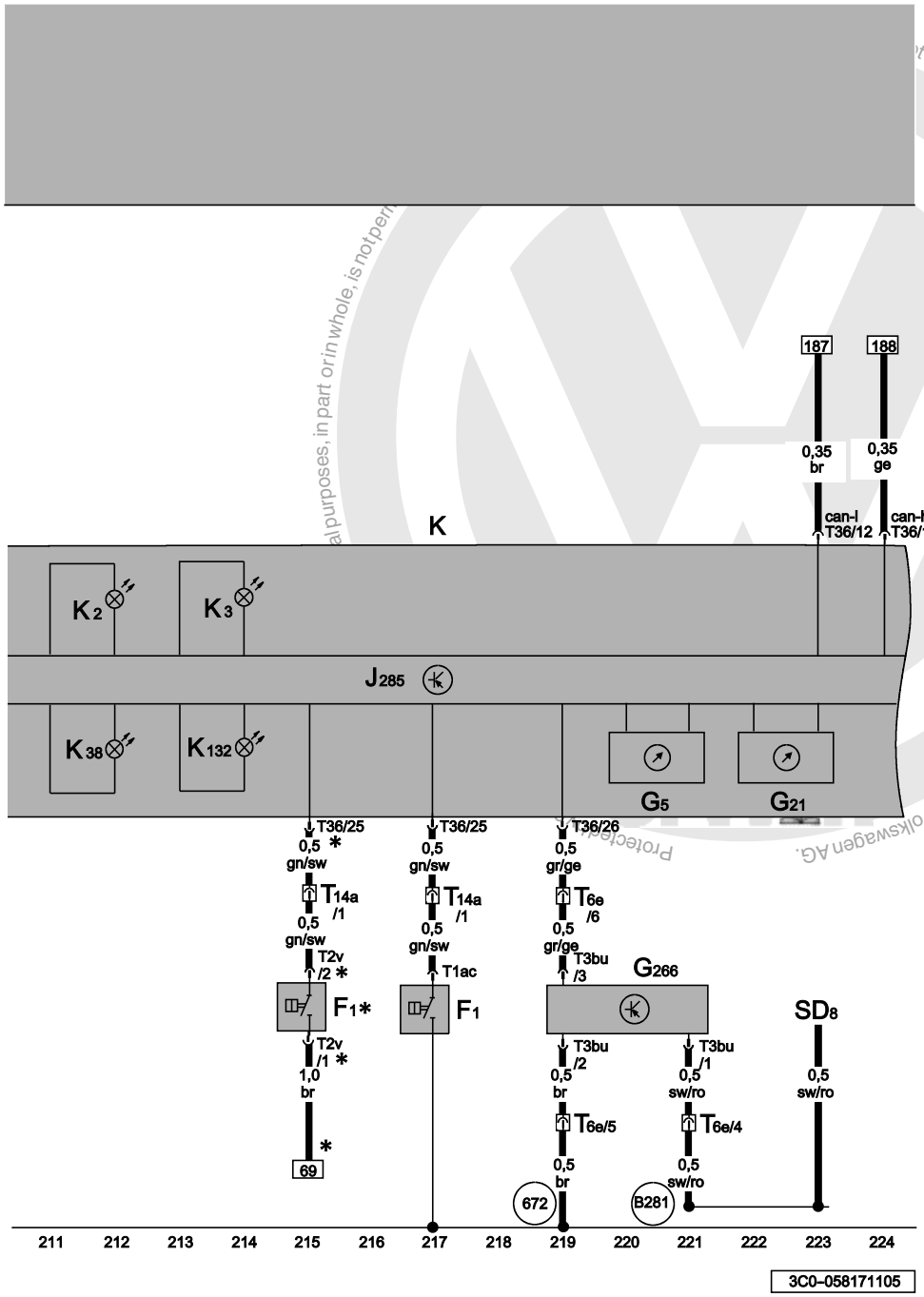
Fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G6	Fuel system pressurisation pump
J285	Control unit in dash panel insert
J538	Fuel pump control unit
K	Dash panel insert
K105	Reserve fuel warning lamp
SD10	Fuse 10 on fuse holder D
SD34	Fuse 34 on fuse holder D
T5u	5-pin connector
T10p	10-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness



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Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender, rev. counter, speedometer

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K38	Oil level warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T2v	2-pin connector, black, in engine compartment
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness
*	from November 2005

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Taxi equipment

from November 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth points

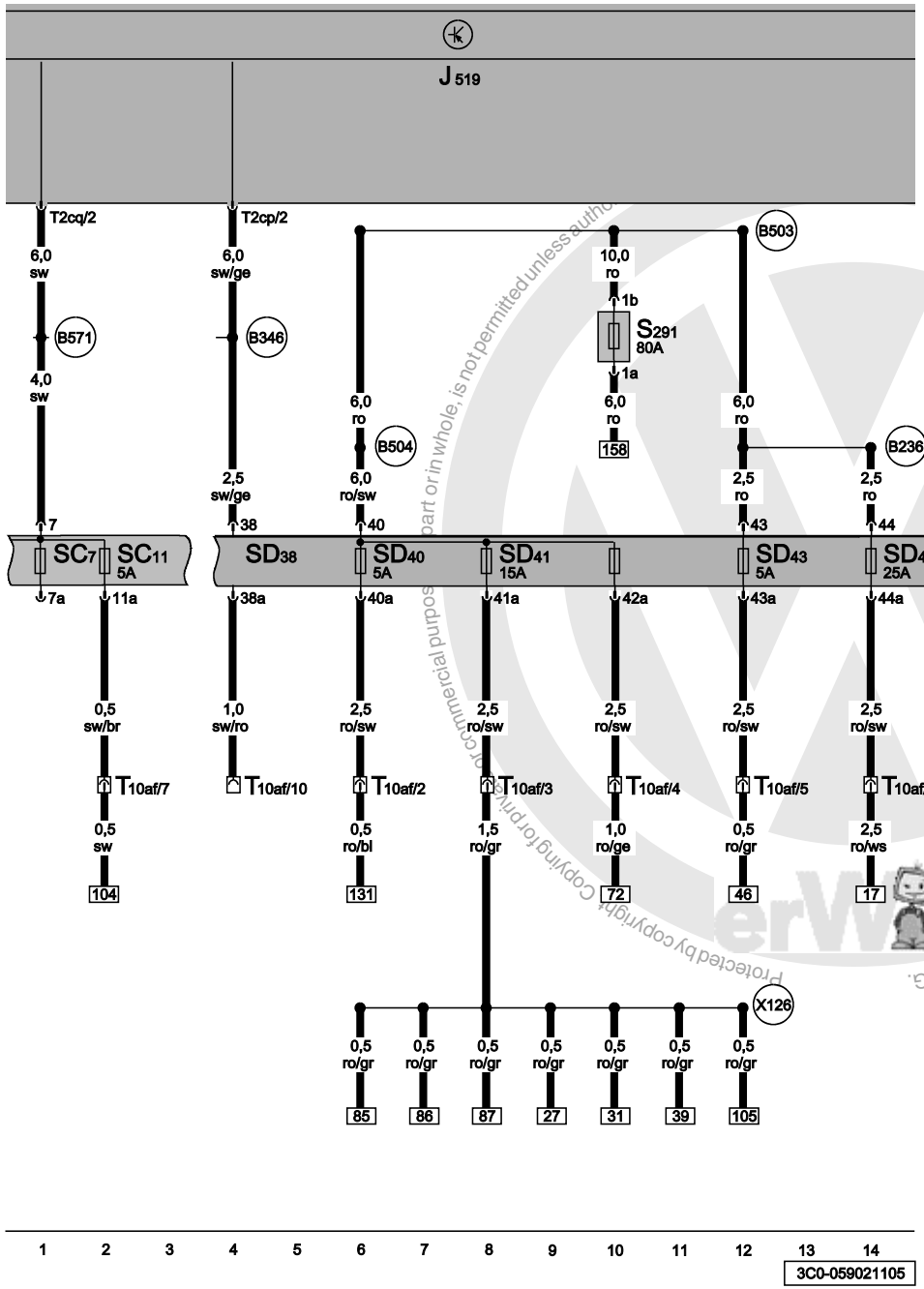
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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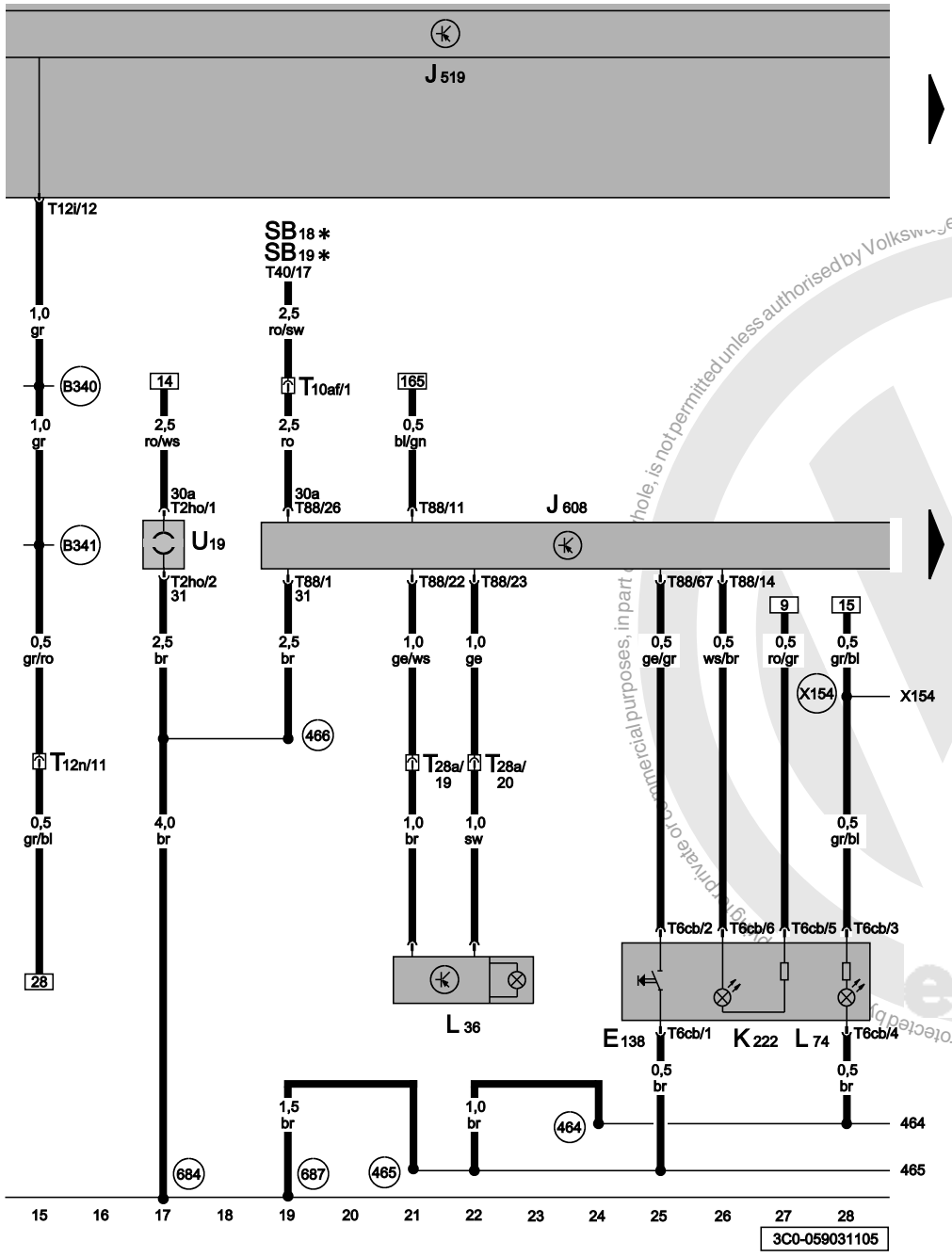


Fuses

J519	Onboard supply control unit
S291	Special vehicle fuse 1
SC7	Fuse 7 on fuse holder C
SC11	Fuse 11 on fuse holder C
SD38	Fuse 38 on fuse holder D
SD40	Fuse 40 on fuse holder D
SD41	Fuse 41 on fuse holder D
SD42	Fuse 42 on fuse holder D
SD43	Fuse 43 on fuse holder D
SD44	Fuse 44 on fuse holder D
T2cp	2-pin connector
T2cq	2-pin connector
T10af	10-pin connector, black, coupling point, left A-pillar
T44	44-pin connector
B236	Positive connection 6 (30a), in interior wiring harness
B346	Connection 1 (75), in main wiring harness
B503	Positive connection 7 (30a), in interior wiring harness
B504	Positive connection 8 (30a), in interior wiring harness
B571	Connection 38, in main wiring harness
X126	Positive connection 2 (30a), in taxi wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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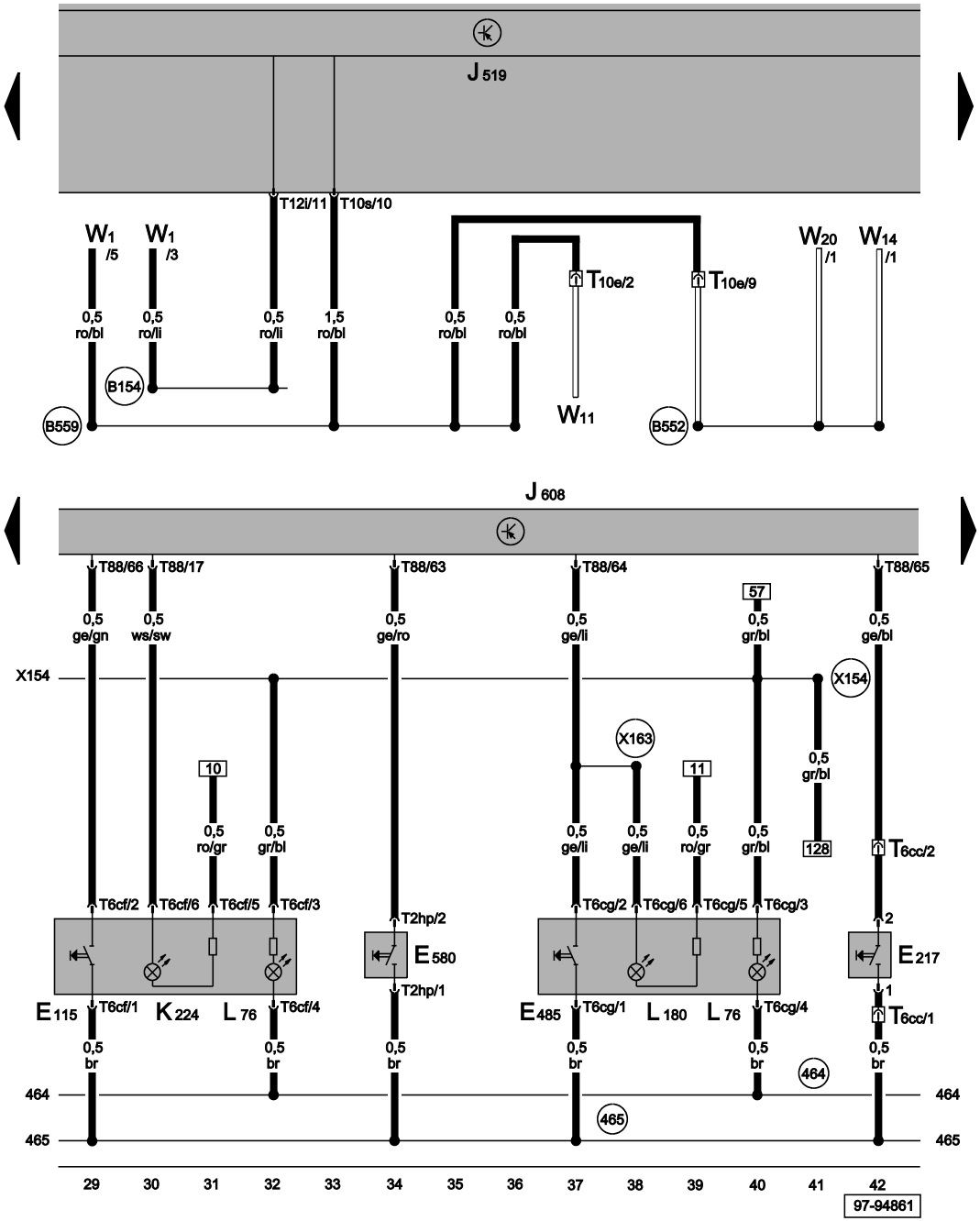
ws = white
sw = black
ro = red
br = brown
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gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Special vehicle control unit, taxi sign switch, taxi roof sign light bulb

E138	Taxi sign switch
J519	Onboard supply control unit
J608	Special vehicle control unit
K222	Taxi roof sign warning lamp
L36	Taxi roof sign light bulb
L74	Taxi sign switch illumination bulb
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T2ho	2-pin connector, black, centre console
T6cb	6-pin connector
T10af	10-pin connector, black, coupling point, left A-pillar
T12i	12-pin connector, black
T12n	12-pin connector, black, coupling point, left A-pillar
T40	40-pin connector, under electronics box, in engine compartment
T28a	28-pin connector, coupling point, left B-pillar
T88	88-pin connector
U19	12 V socket 3
464	Earth connection 3, in taxi wiring harness
465	Earth connection 4, in taxi wiring harness
466	Earth connection 5, in taxi wiring harness
684	Earth point, on front of left longitudinal member
687	Earth point 1, on centre tunnel
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
X154	Connection (58), in taxi wiring harness

* depends on equipment

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Special vehicle control unit, interior light switch taxi, taxi alarm off button

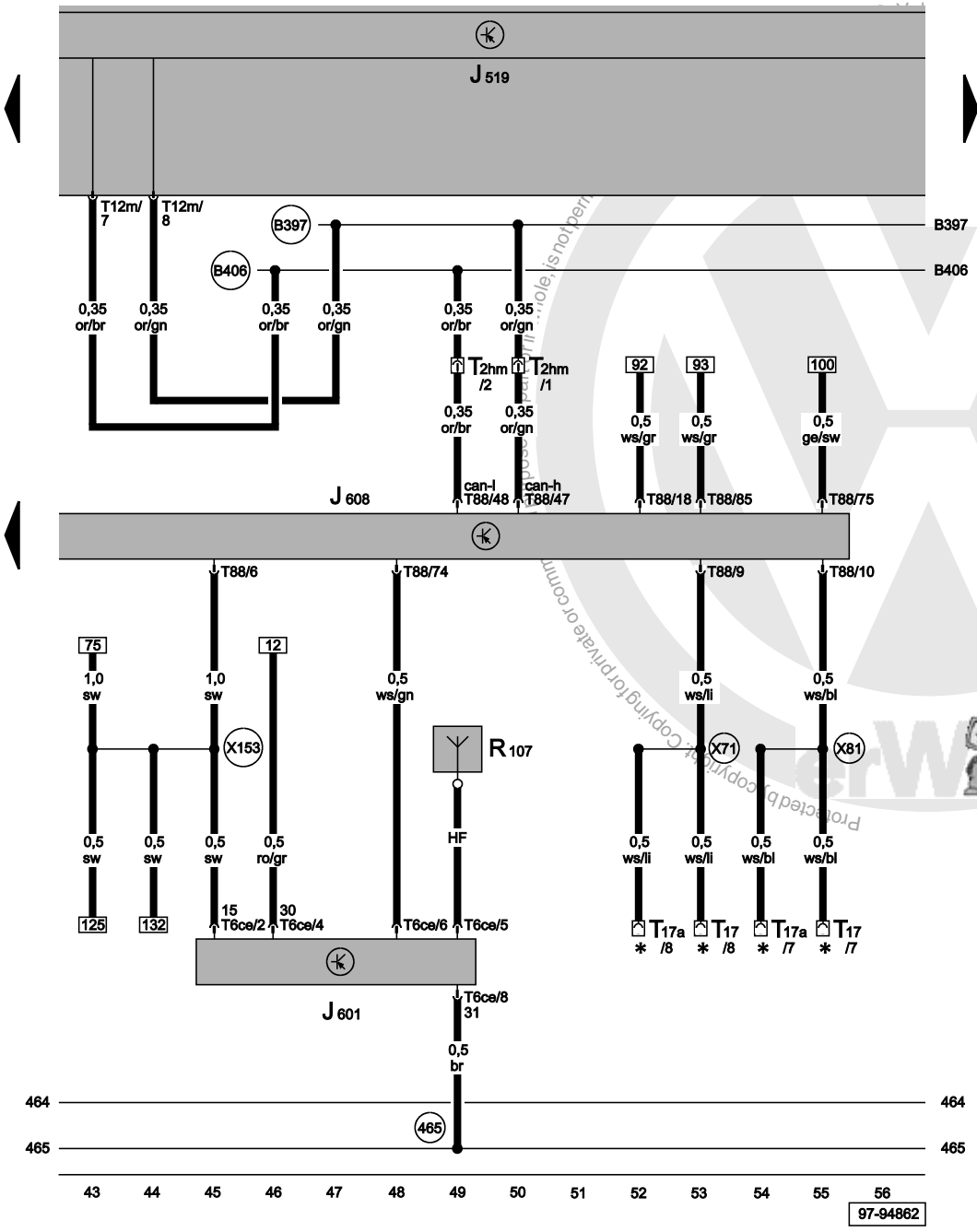
E115	Interior light switch (taxi)
E217	Alarm system off switch
E485	Taxi alarm active button
E580	Taxi alarm passive button
J519	Onboard supply control unit
J608	Special vehicle control unit
K224	Interior light warning lamp
L76	Button illumination bulb
L180	Button illumination lamp for active alarm
T2hp	2-pin connector, black, left of A-pillar
T6cc	6-pin connector, on left in luggage compartment
T6cf	6-pin connector
T6cg	6-pin connector
T10e	10-pin connector, black, coupling point roof wiring harness
T10s	10-pin connector, black
T12i	12-pin connector, black
T88	88-pin connector
W1	Front interior light
W11	Rear left reading light
W14	Front passenger side illuminated vanity mirror
W20	Driver side illuminated vanity mirror
464	Earth connection 3, in taxi wiring harness
465	Earth connection 4, in taxi wiring harness
B154	Connection 1 (DCt), in interior wiring harness
B552	Positive connection 2, in roof wiring harness
B559	Positive connection 1 (30g), in main wiring harness
X154	Connection (58), in taxi wiring harness
X163	Connection 13, in taxi wiring harness
<fo:exter	Flat strip wire
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ws = white

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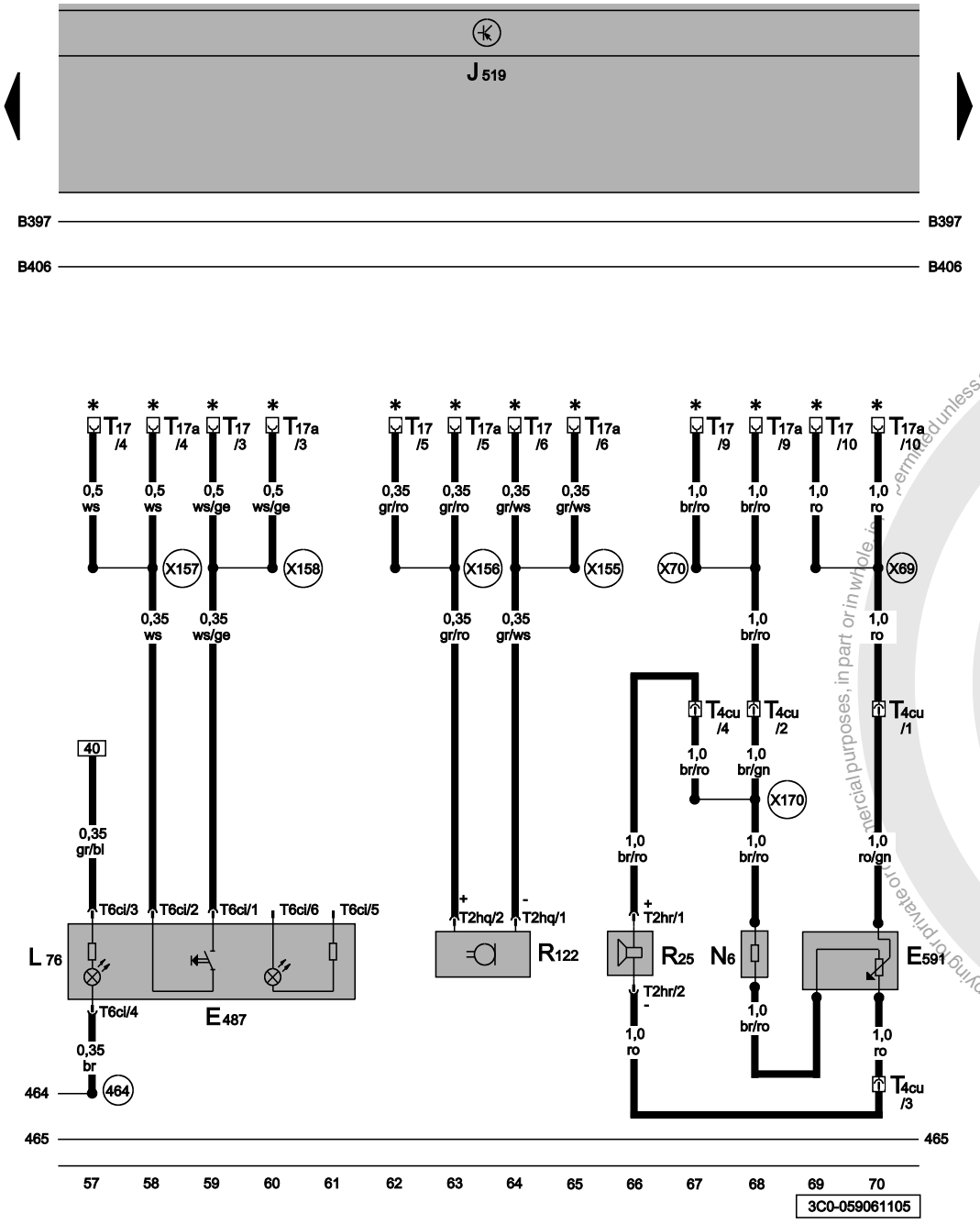
Special vehicle control unit, taxi alarm remote control, control unit

J519	Onboard supply control unit
J601	Taxi alarm remote control, control unit
J608	Special vehicle control unit
R107	Remote controlled taxi alarm aerial
T2hm	2-pin connector, black, coupling point convenience CAN bus
T6ce	6-pin connector
T12m	12-pin connector, black
T17	17-pin connector, black, in glove box
T17a	17-pin connector, black, on right in luggage compartment
T88	88-pin connector
465	Earth connection 4, in taxi wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
X71	Connection 3, in taxi wiring harness
X81	Connection 4, in taxi wiring harness
X153	Positive connection 3 (15), in taxi wiring harness
*	two-way radio connection

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br	=	brown
gn	=	green
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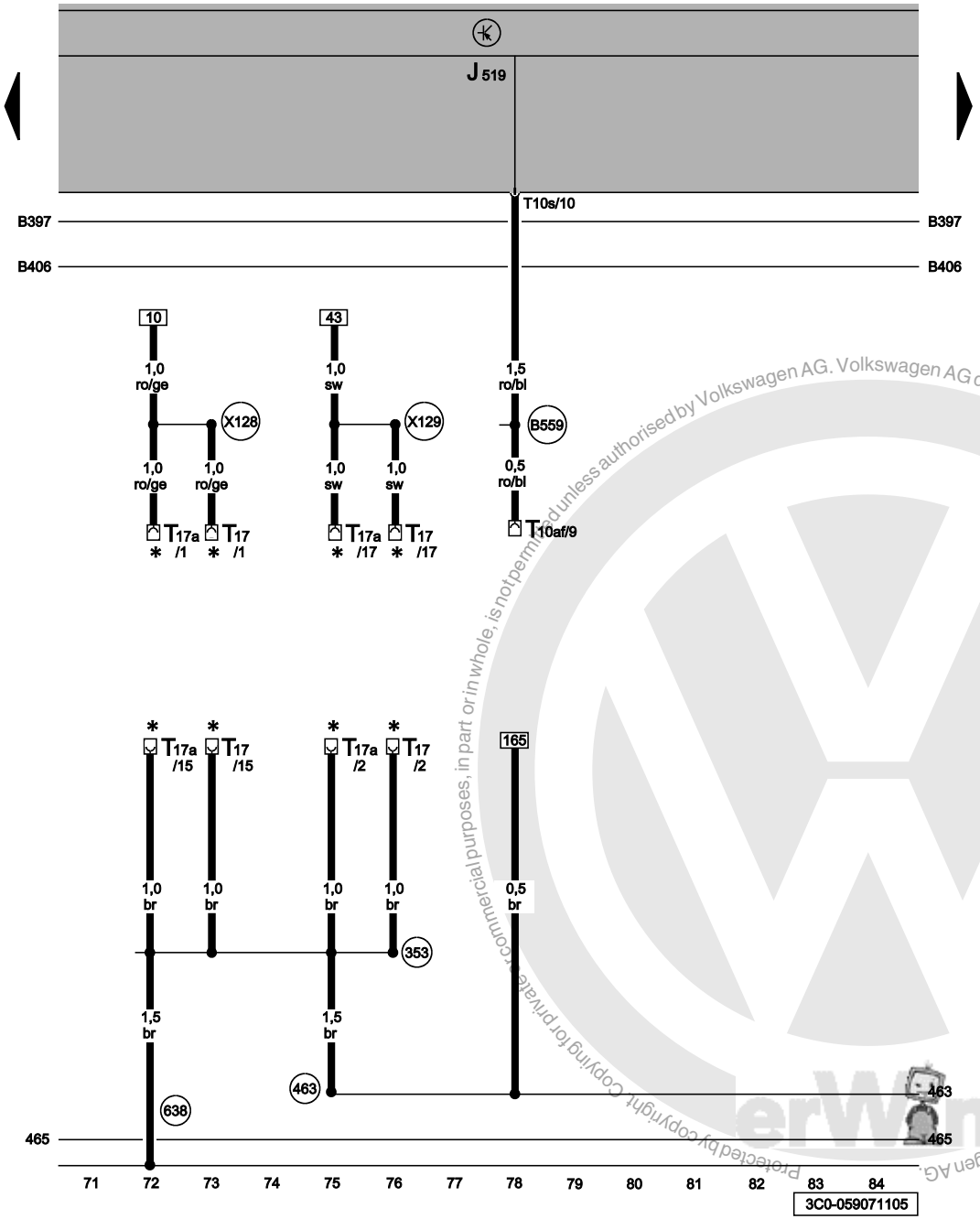
Hands-free system button, two-way radio loudspeaker, 2-way radio unit microphone



E487	Hands-free system button
E591	Volume control for two-way radio
J519	Onboard supply control unit
L76	Button illumination bulb
N6	Series resistor
R25	Two-way radio loudspeaker
R122	2-way radio unit microphone
T2hq	2-pin connector
T2hr	2-pin connector
T4cu	4-pin connector, black, centre console
T6ci	6-pin connector
T17	17-pin connector, black, in glove box
T17a	17-pin connector, black, on right in luggage compartment
464	Earth connection 3, in taxi wiring harness
X69	Connection 1, in taxi wiring harness
X70	Connection 2, in taxi wiring harness
X155	Connection 5, in taxi wiring harness
X156	Connection 6, in taxi wiring harness
X157	Connection 7, in taxi wiring harness
X158	Connection 8, in taxi wiring harness
X170	Connection 18, in taxi wiring harness
*	two-way radio connection

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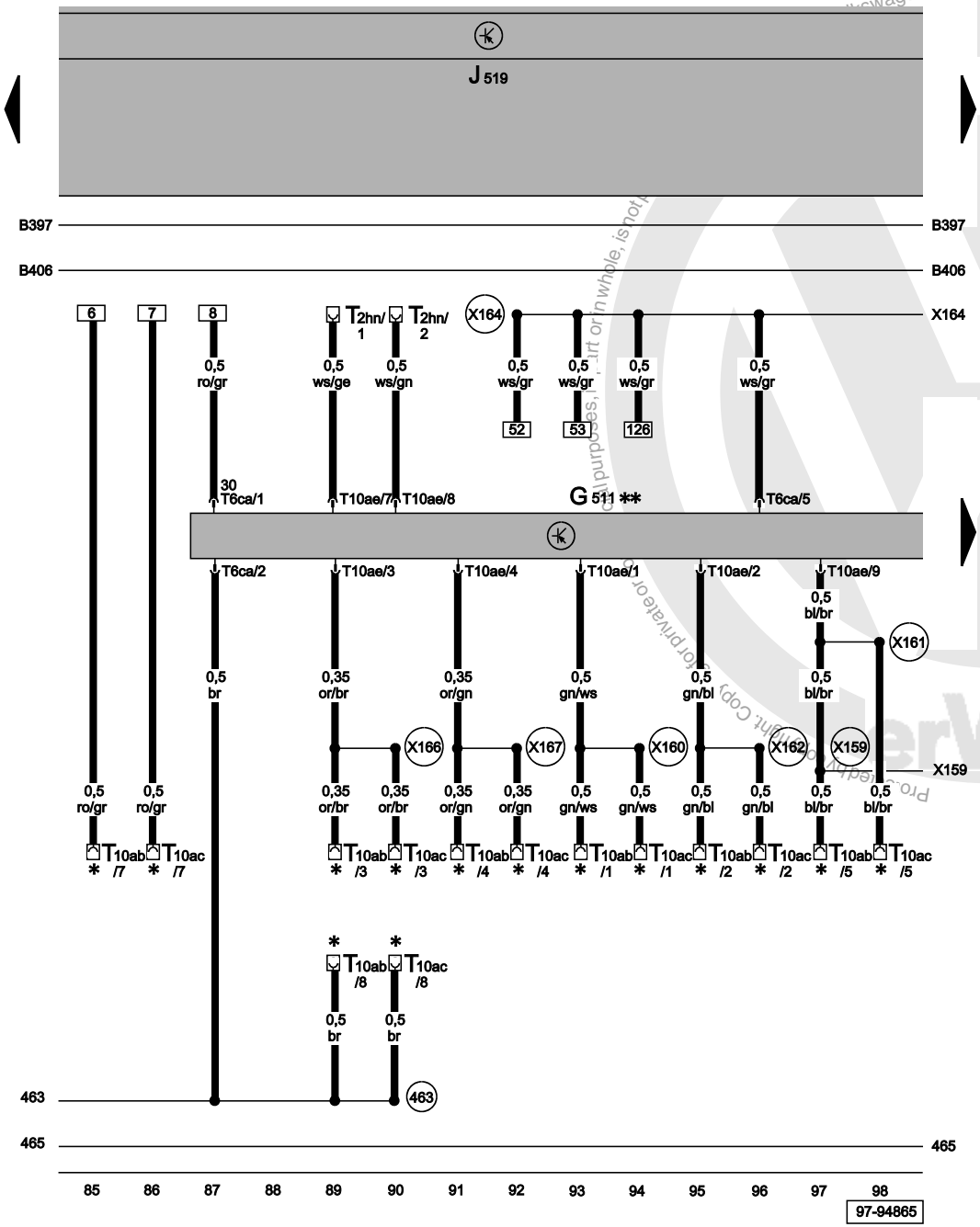


two-way radio connection

J519	Onboard supply control unit
T10af	10-pin connector, black, coupling point, left A-pillar
T10s	10-pin connector, black
T17	17-pin connector, black, in glove box
T17a	17-pin connector, black, on right in luggage compartment
353	Earth connection, in taxi wiring harness
463	Earth connection 2, in taxi wiring harness
638	Earth point, right A-pillar
B559	Positive connection 1 (30g), in main wiring harness
X128	Positive connection 4 (30a), in taxi wiring harness
X129	Positive connection 1 (15), in taxi wiring harness
*	two-way radio connection

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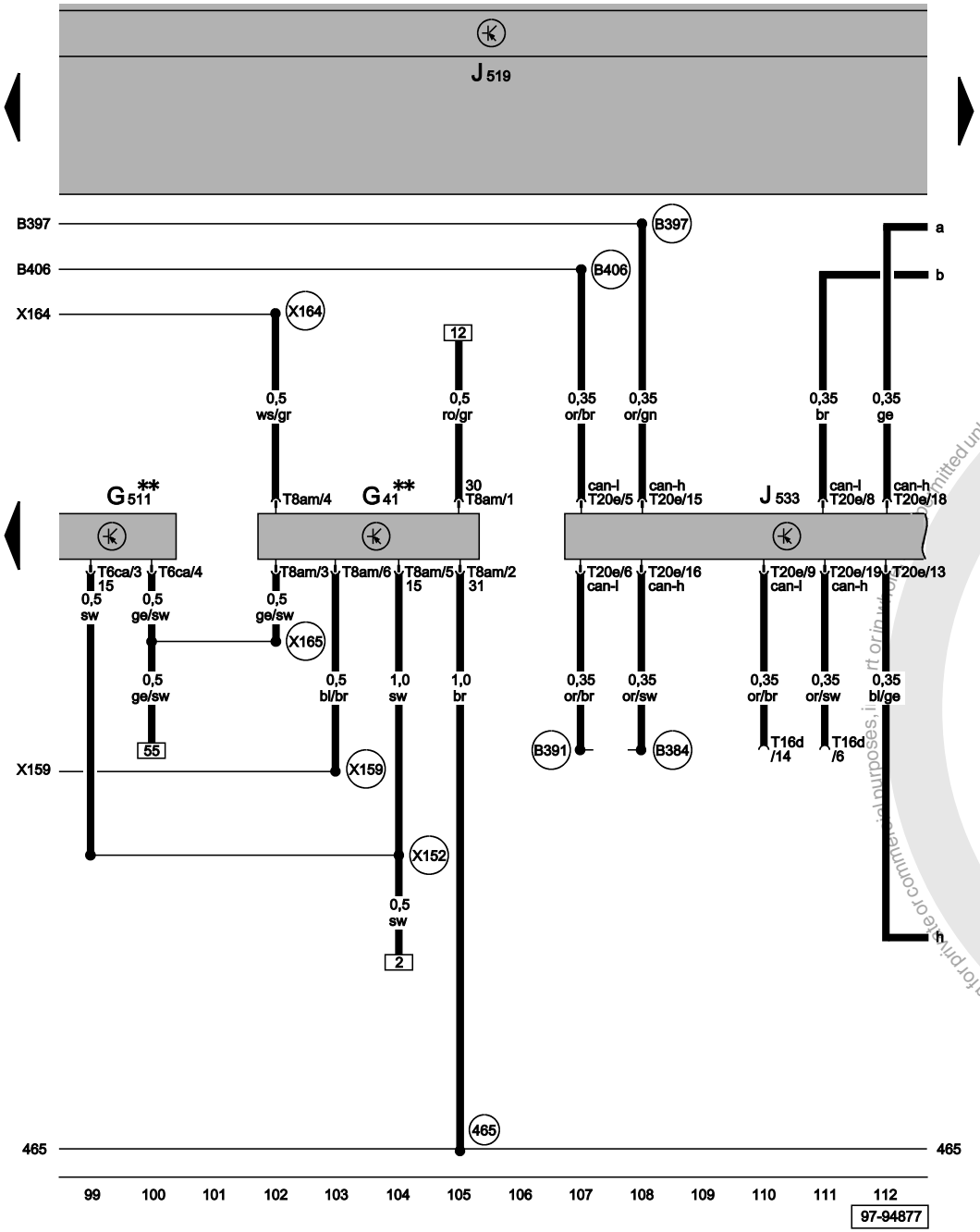


Mirror taxi meter

G511	Mirror taxi meter
J519	Onboard supply control unit
T2hn	2-pin connector, black, behind the glove box
T6ca	6-pin connector
T10ab	10-pin connector, black, in glove box
T10ac	10-pin connector, black, on right in luggage compartment
T10ae	10-pin connector
463	Earth connection 2, in taxi wiring harness
X159	Connection 9, in taxi wiring harness
X160	Connection 10, in taxi wiring harness
X161	Connection 11, in taxi wiring harness
X162	Connection 12, in taxi wiring harness
X164	Connection 14, in taxi wiring harness
X166	Connection (low bus), in taxi wiring harness
X167	Connection (high bus), in taxi wiring harness
*	data transmission
**	component does not exist in the preparation

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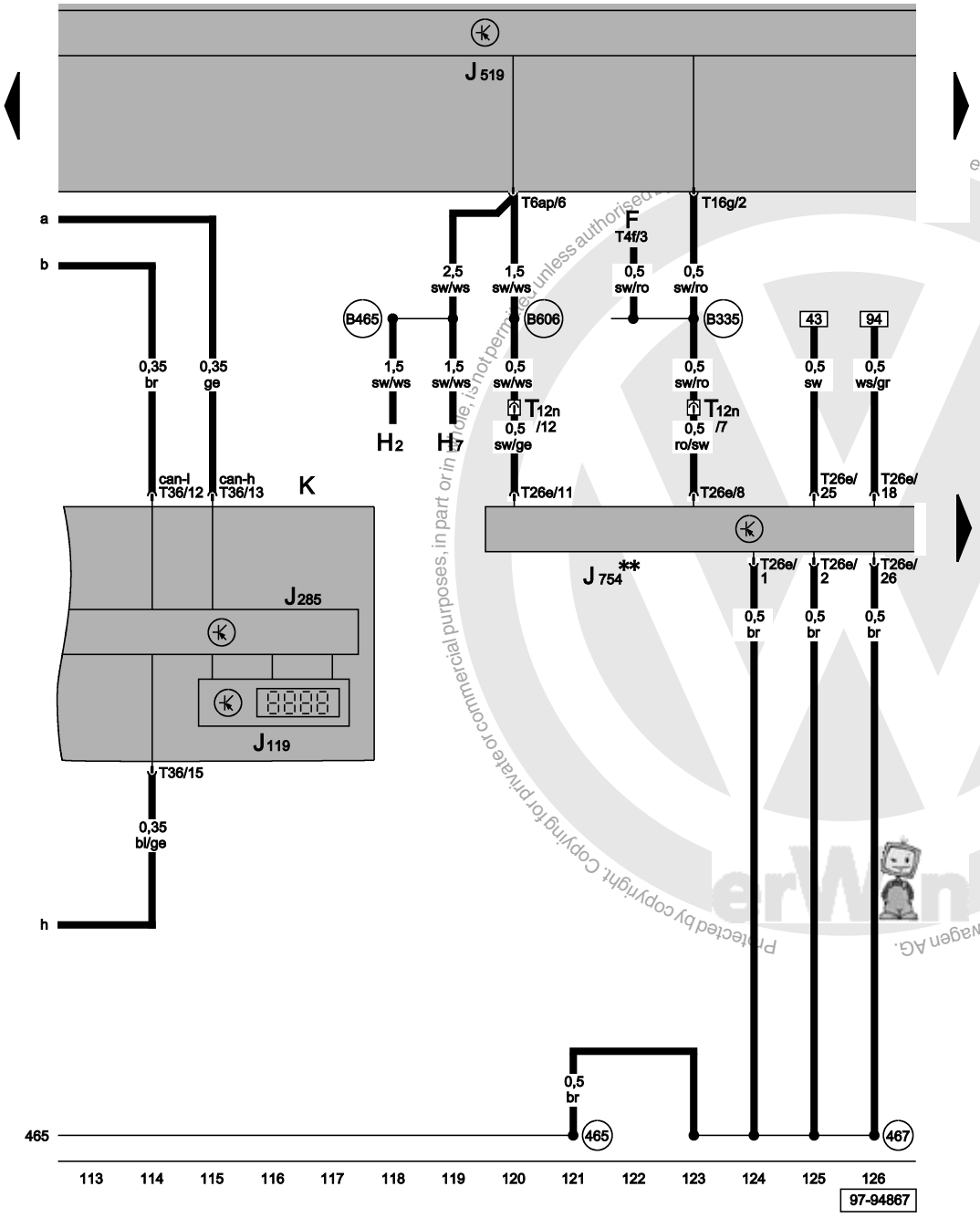


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Taxi meter, mirror taxi meter, data bus diagnostic interface

G41	Taxi meter
G511	Mirror taxi meter
J519	Onboard supply control unit
J533	Data bus diagnostic interface
T6ca	6-pin connector
T8am	8-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
465	Earth connection 4, in taxi wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
X152	Positive connection 2 (15), in taxi wiring harness
X159	Connection 9, in taxi wiring harness
X164	Connection 14, in taxi wiring harness
X165	Connection 15, in taxi wiring harness
**	component does not exist in the preparation

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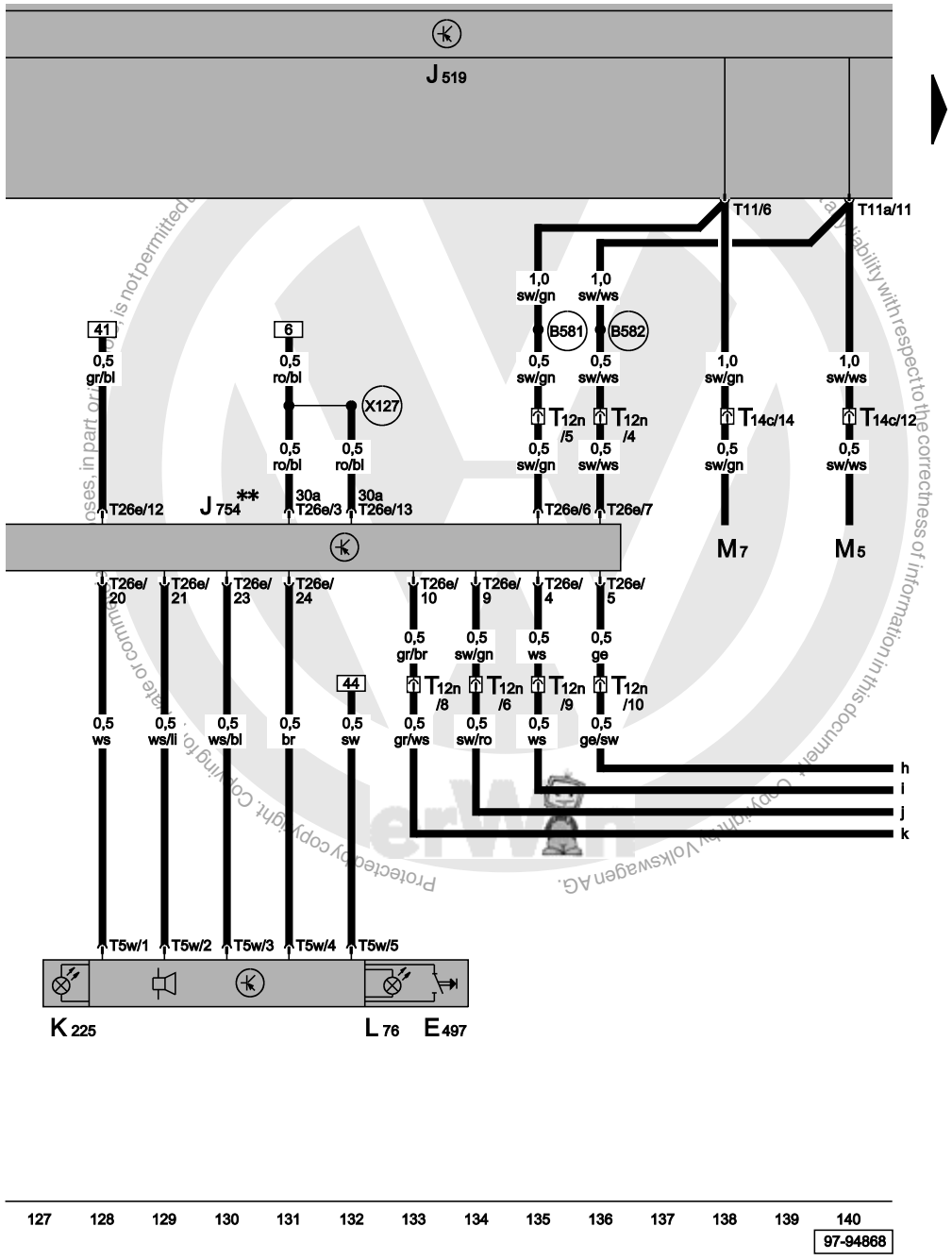


Accident data memory, dash panel insert

F	Reversing light switch
H2	Treble tone horn
H7	Bass tone horn
J119	Multifunction display
J754	Accident data memory
J285	Control unit with display in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T4f	4-pin connector
T6ap	6-pin connector
T12n	12-pin connector, black, coupling point, left A-pillar
T16g	16-pin connector
T26e	26-pin connector
T36	36-pin connector
465	Earth connection 4, in taxi wiring harness
467	Earth connection 6, in taxi wiring harness
B335	Connection 1 (54), in main wiring harness
B465	Connection 1, in main wiring harness
B606	Connection 2, in interior wiring harness
**	component does not exist in the preparation

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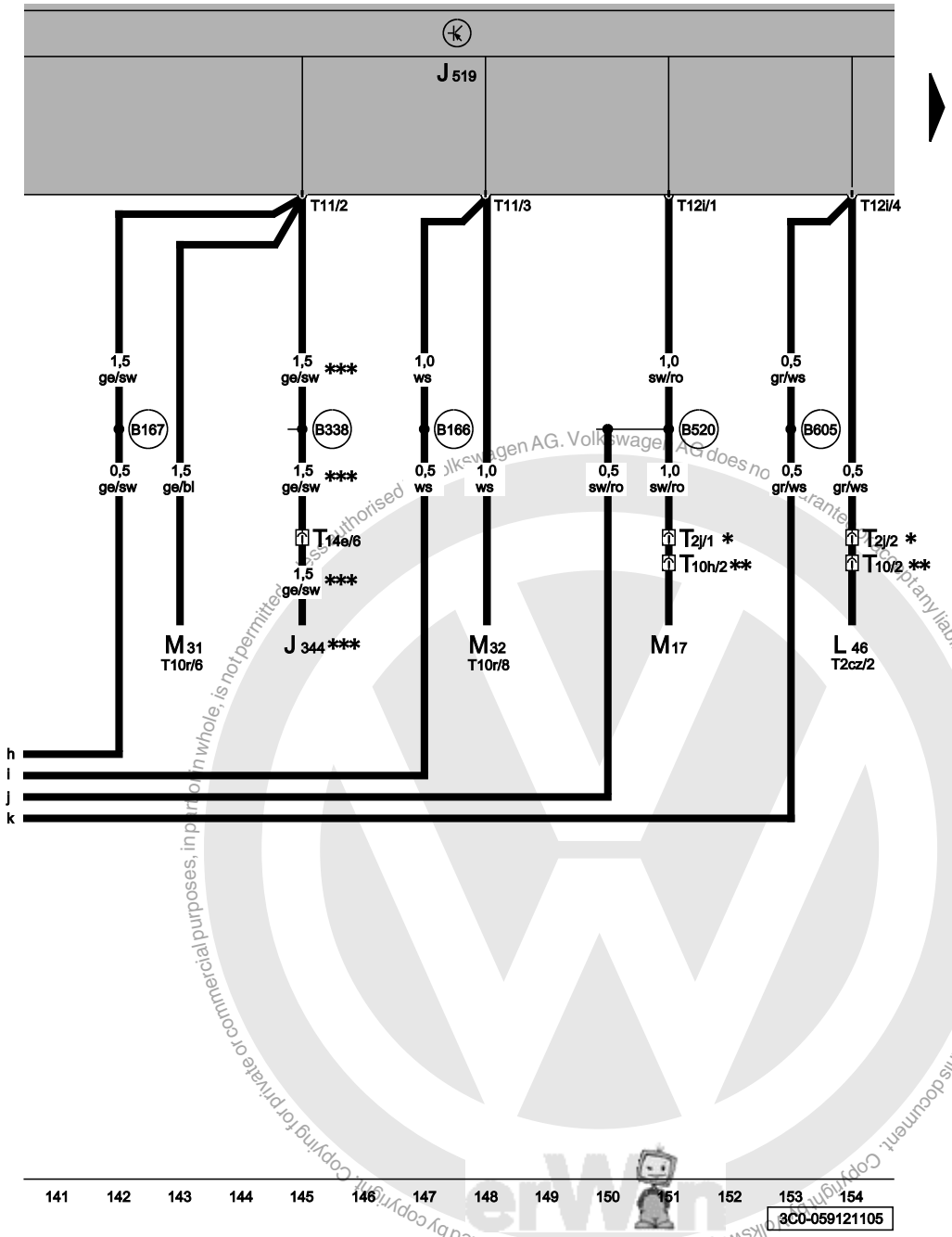


Accident data memory, accident data recorder button

E497	Accident data recorder button
J519	Onboard supply control unit
J754	Accident data memory
K225	Accident recorder warning lamp
L76	Button illumination bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
T5w	5-pin connector
T11	11-pin connector
T11a	11-pin connector, brown
T12n	12-pin connector, black, coupling point, left A-pillar
T14c	14-pin connector, coupling point bumper front left
T26e	26-pin connector
B581	Positive connection (left indicator lamp), interior wiring harness
B582	Positive connection (right indicator lamp), interior wiring harness
X127	Positive connection 3 (30a), in taxi wiring harness
**	component does not exist in the preparation

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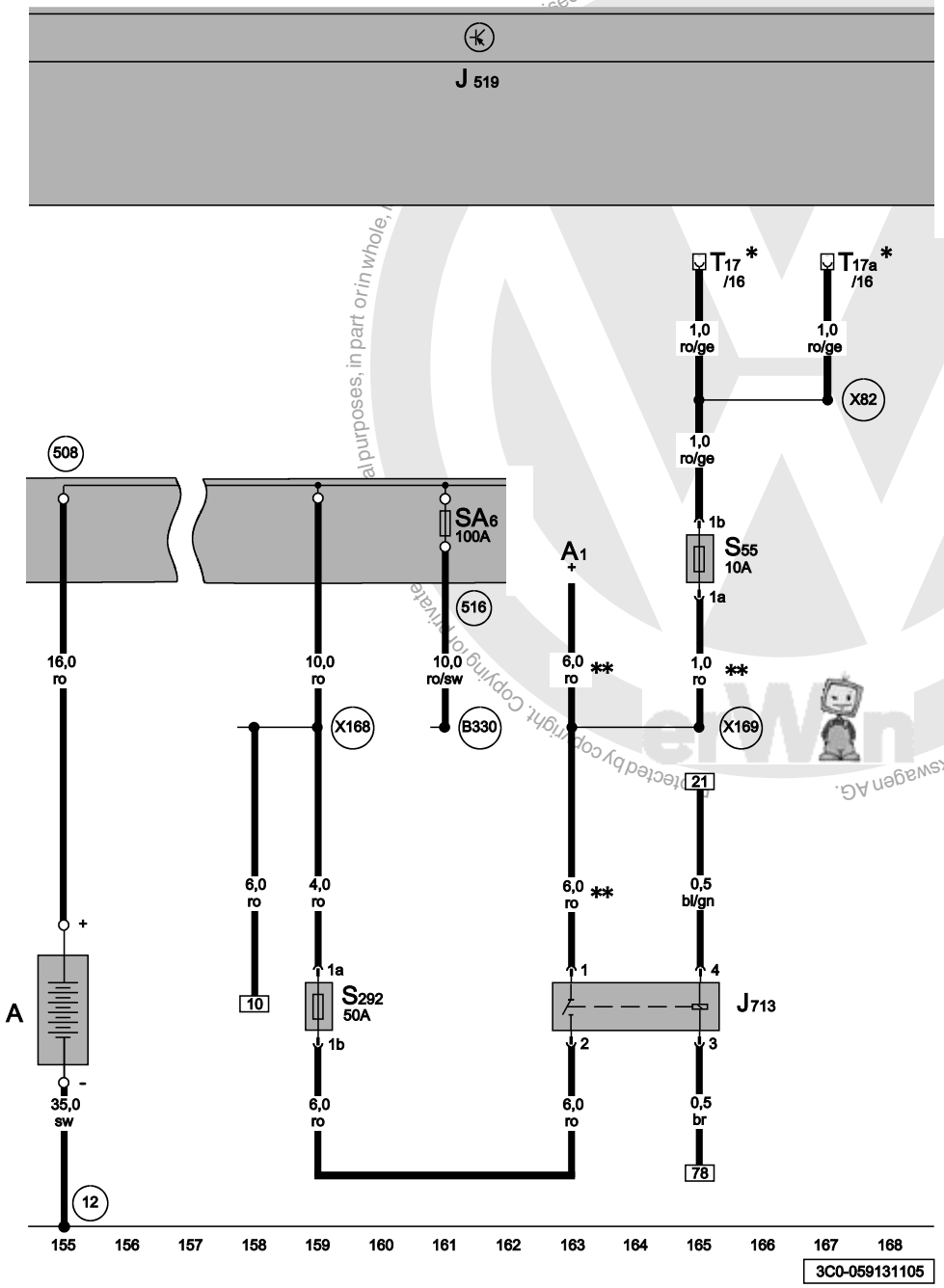


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Connection on light system

J344	Right gas discharge light control unit
J519	Onboard supply control unit
L46	Rear left fog light bulb
M17	Right reversing light bulb
M31	Right dipped beam bulb
M32	Right main beam bulb
T2cz	2-pin connector
T2j	2-pin connector
T10	10-pin connector, coupling point on left of rear lid
T10h	10-pin connector, coupling point on right of rear lid
T10r	10-pin connector
T11	11-pin connector
T12i	12-pin connector
T14e	14-pin connector
B166	Connection (56a), in interior wiring harness
B167	Connection (56b), in interior wiring harness
B338	Connection 1 (56), in main wiring harness
B520	Connection (RL), in main wiring harness
B605	Connection 1, in interior wiring harness
*	only saloon models
**	only Variant
***	only models with gas discharge lights

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Battery, second battery, two-way radio fuse, second battery charging circuit relay

A	Battery
A1	Second battery
J519	Onboard supply control unit
J713	Second battery charging circuit relay
S55	Two-way radio fuse
S292	Special vehicle fuse 2
SA6	Fuse 6 on fuse holder A
T17	17-pin connector, black, in glove box
T17a	17-pin connector, black, on right in luggage compartment
12	Earth point, on left in engine compartment
508	Screw connection (30), on electronics box
516	Screw connection 6 (30a), on relay plate
B330	Positive connection 16 (30a), in main wiring harness
X82	Positive connection 1 (30a), in taxi wiring harness
X168	Connection 16, in taxi wiring harness
X169	Connection 17, in taxi wiring harness
*	two-way radio connection
**	component does not exist in the preparation

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Optimal equipment, police

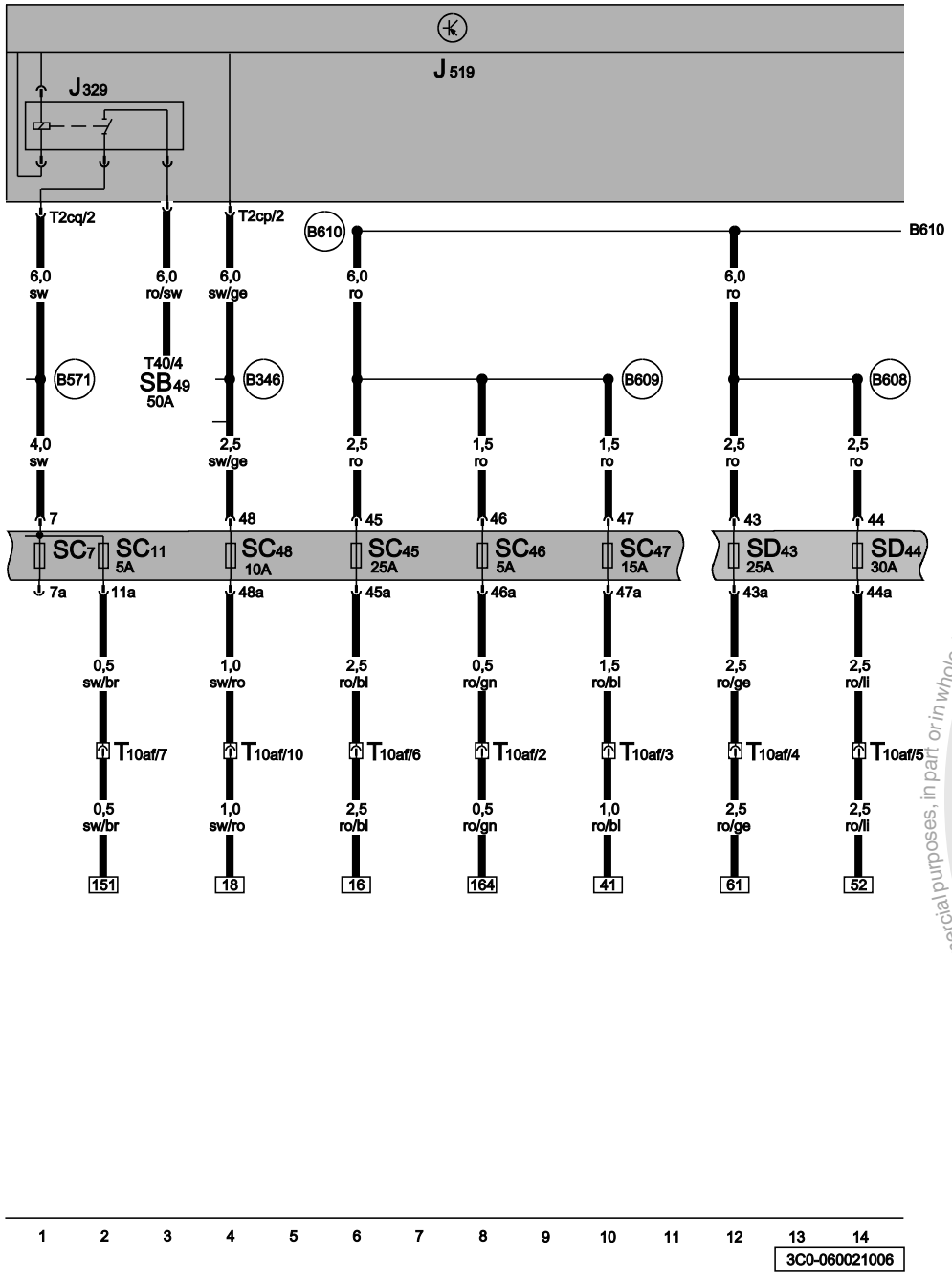
⇒ **Radio system**
⇒ **Special signal system**
⇒ **Accident data memory**
⇒ **Connection for tachograph**
from October 2005

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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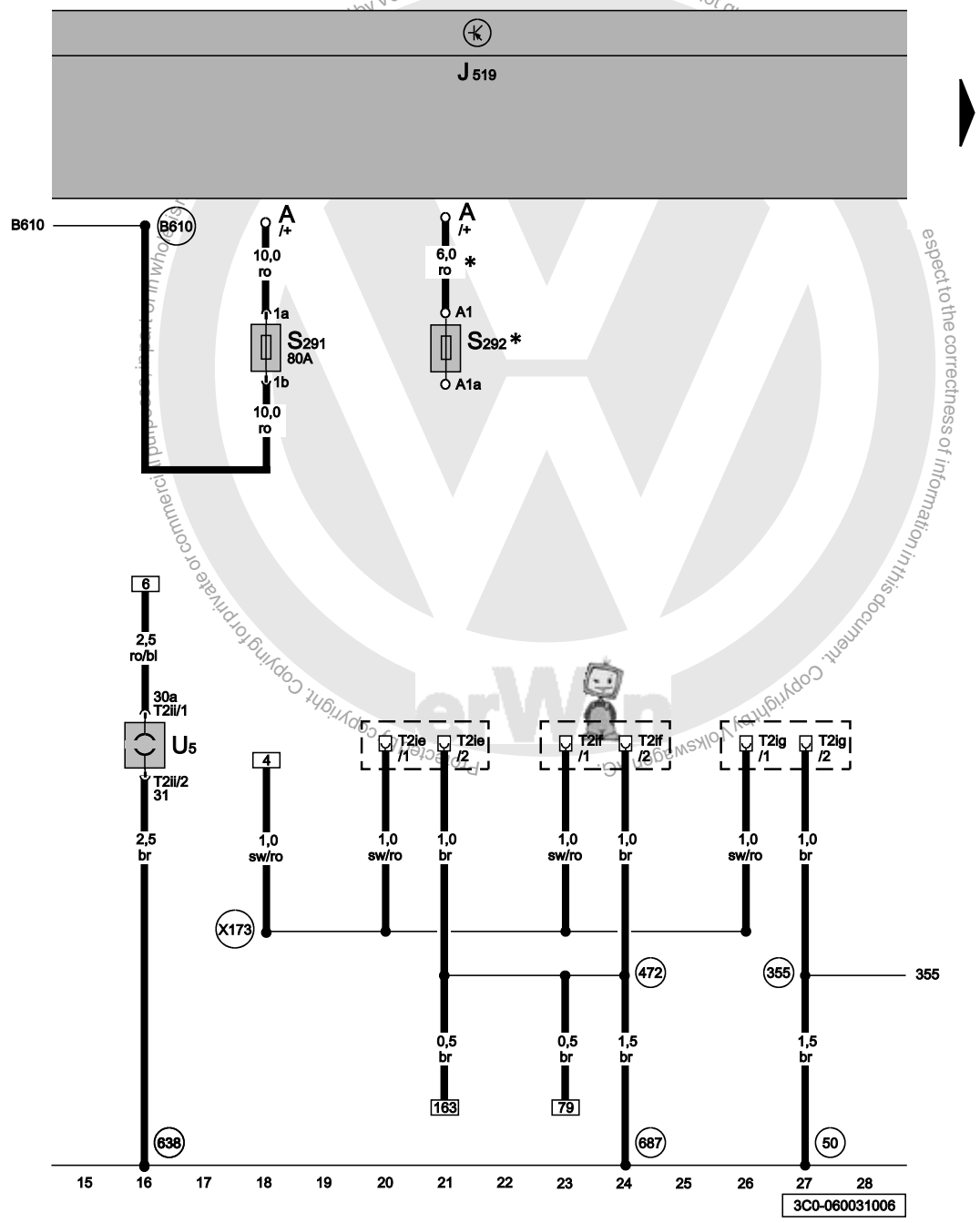


Fuses, terminal 15 voltage supply relay

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
SC11	Fuse 11 on fuse holder C
SC45	Fuse 45 on fuse holder C
SC46	Fuse 46 on fuse holder C
SC47	Fuse 47 on fuse holder C
SC48	Fuse 48 on fuse holder C
SD43	Fuse 43 on fuse holder D
SD44	Fuse 44 on fuse holder D
T2cp	2-pin connector
T2cq	2-pin connector
T10af	10-pin connector, black, coupling point, left A-pillar
B346	Connection 1 (75), in main wiring harness
B571	Connection 38, in main wiring harness
B608	Connection 4, in interior wiring harness
B609	Connection 5, in interior wiring harness
B610	Connection 6, in interior wiring harness

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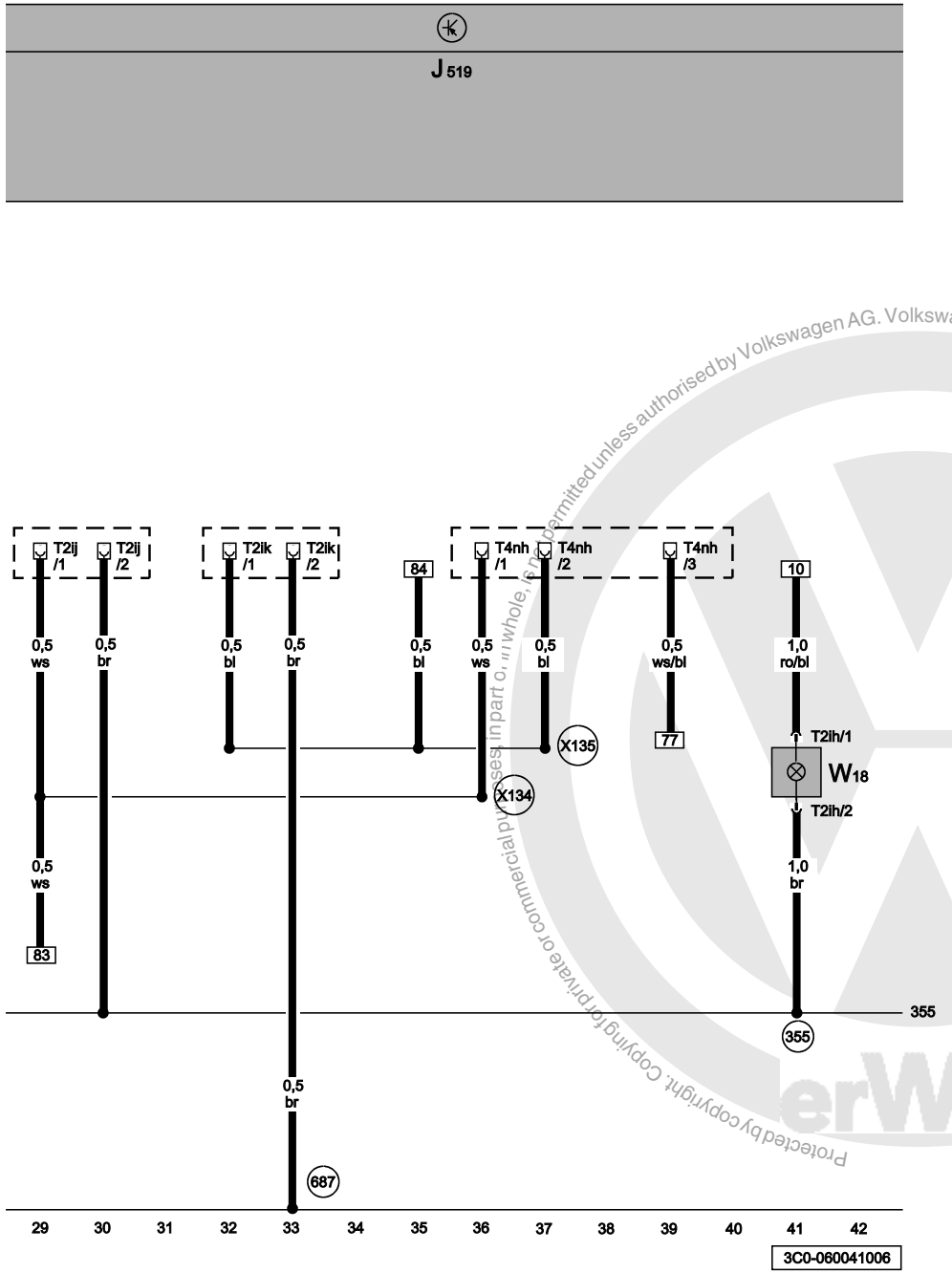
Battery, special vehicle fuse 1, 12 V socket, coupling point loading device

A	Battery
J519	Onboard supply control unit
S291	Special vehicle fuse 1, extra fuse box on left headlight
S292	Special vehicle fuse 2, extra fuse box on left headlight
T2ie	2-pin connector, coupling point loading device, under the seat on front right
T2if	2-pin connector, coupling point loading device, in centre console
T2ig	2-pin connector, coupling point loading device, in luggage compartment
T2ii	2-pin connector, behind the glove compartment
U5	12 V socket, in right luggage compartment
50	Earth point, on left in luggage compartment
355	Earth connection, in police wiring harness
472	Earth connection 6, in optional equipment wiring harness
638	Earth point, right A-pillar
687	Earth point 1, on centre tunnel
B610	Connection 6, in interior wiring harness
X173	Positive connection (75a), in siren wiring harness
*	preparation voltage supply luggage compartment

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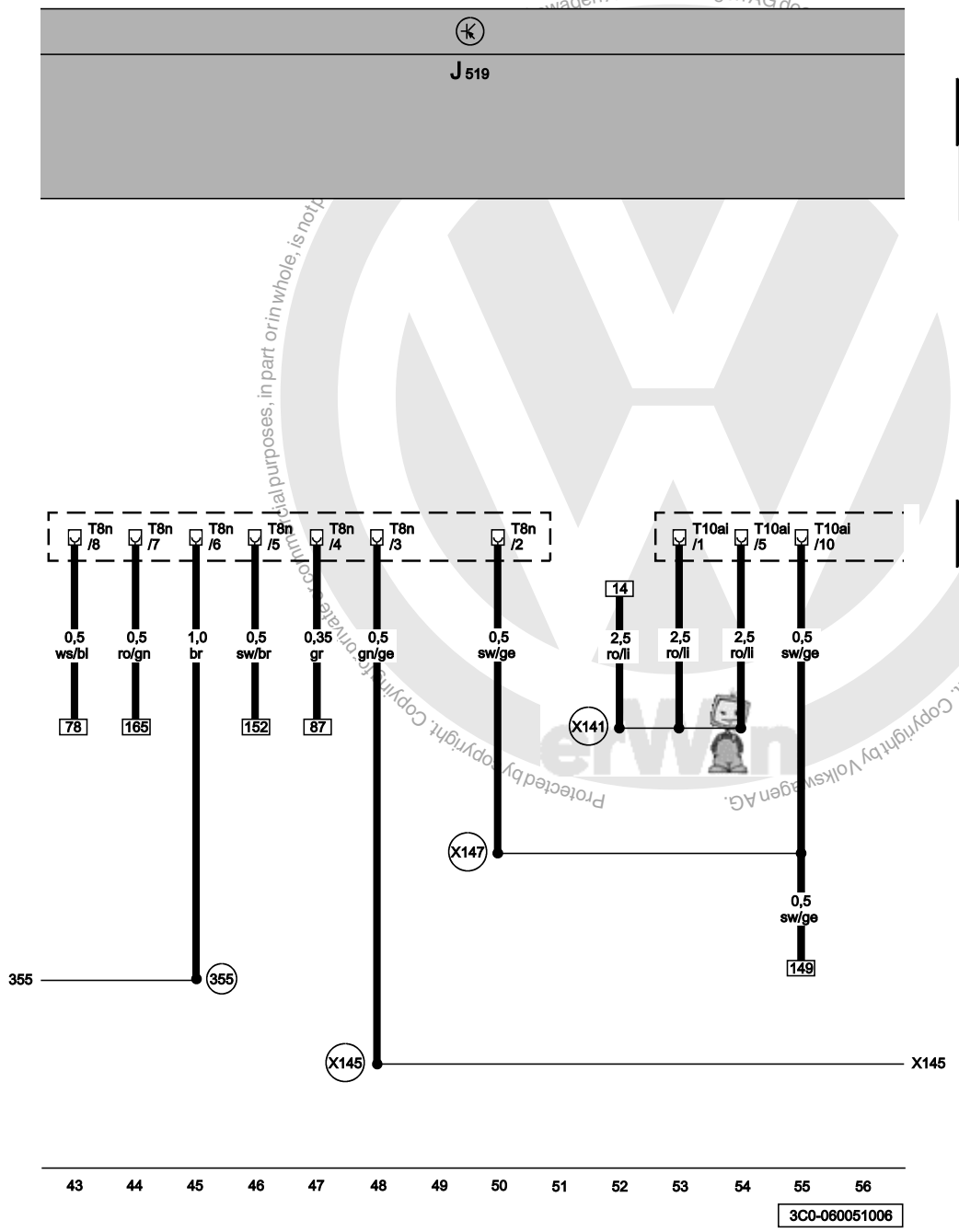
Coupling element for left and right extra turn signal, coupling point special signals II, luggage compartment light on left

J519	Onboard supply control unit
T2ih	2-pin connector
T2ij	2-pin connector, coupling element for left extra turn signal
T2ik	2-pin connector, coupling element for left extra turn signal
T4nh	4-pin connector, coupling point special signals II
W18	Luggage compartment light on left
355	Earth connection, in police wiring harness
687	Earth point 1, on centre tunnel
X134	Connection 1, in siren wiring harness
X135	Positive connection (15a), in siren wiring harness



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Coupling point tachograph, coupling point special signals

J519 Onboard supply control unit
T8n 8-pin connector, coupling point tachograph, in luggage compartment
T10ai 10-pin connector, coupling point special signals, right A-pillar

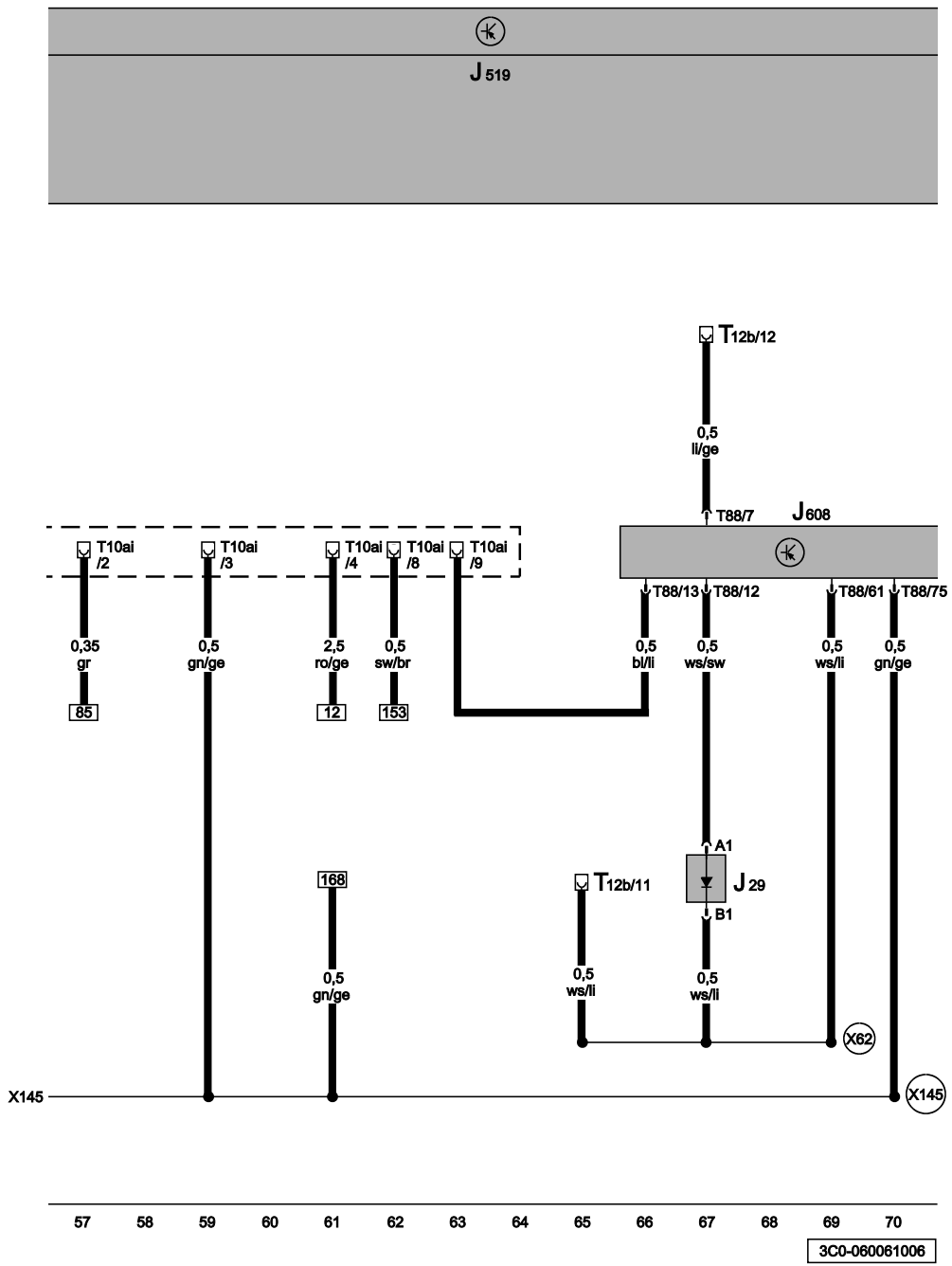
355 Earth connection, in police wiring harness

X141 Positive connection 4 (30a), in siren wiring harness

X145 Connection 7, in optional equipment wiring harness

X147 Positive connection 6 (30), in optional equipment wiring harness

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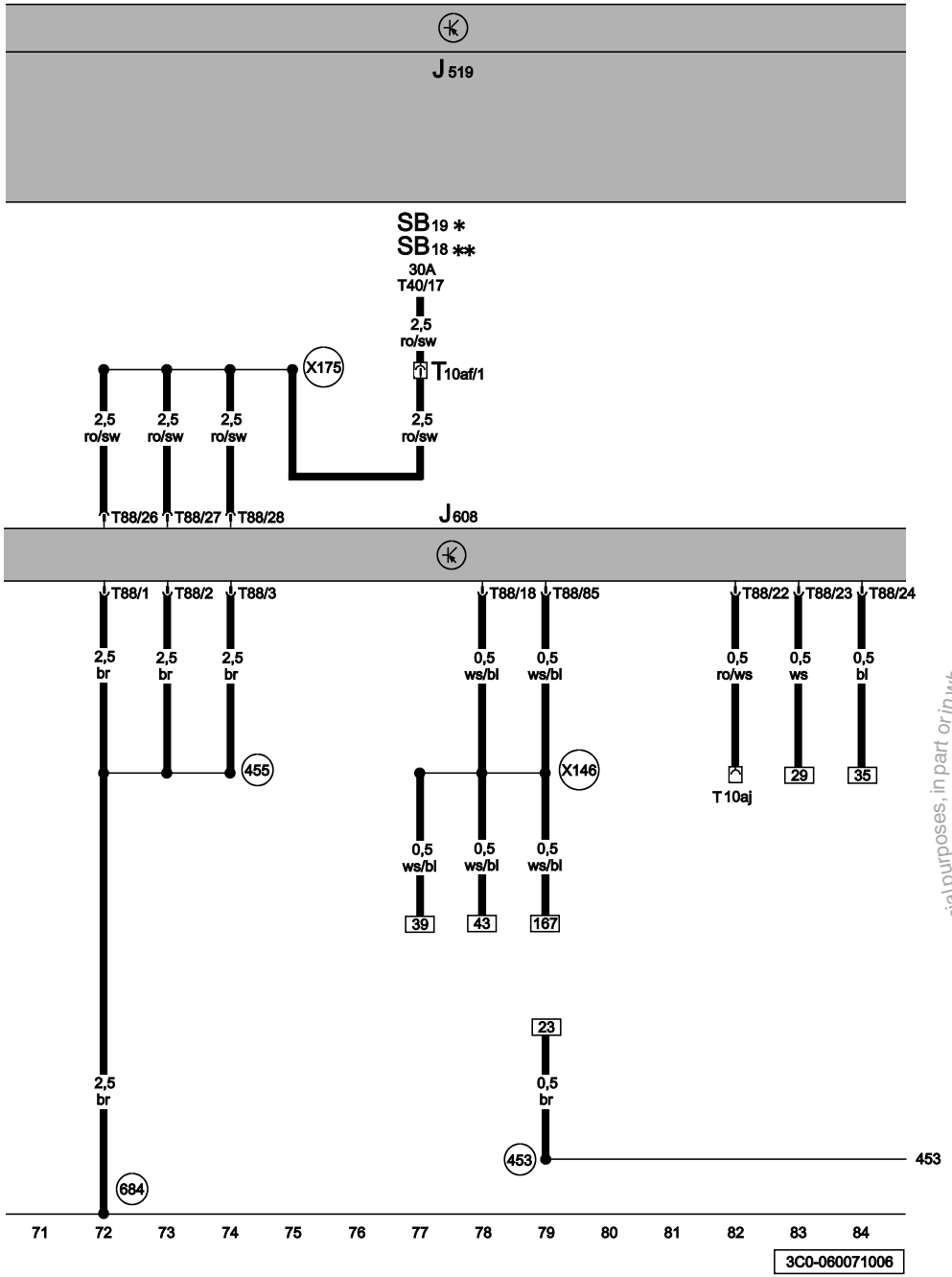


Special vehicle control unit, blocking diode, coupling point special signals

J29	Blocking diode
J519	Onboard supply control unit
J608	Special vehicle control unit
T12b	12-pin connector, black, coupling point, left A-pillar
T10ai	10-pin connector, coupling point special signals, right A-pillar
T88	88-pin connector
X62	Positive connection 3 (15a), in optional equipment wiring harness
X145	Connection 7, in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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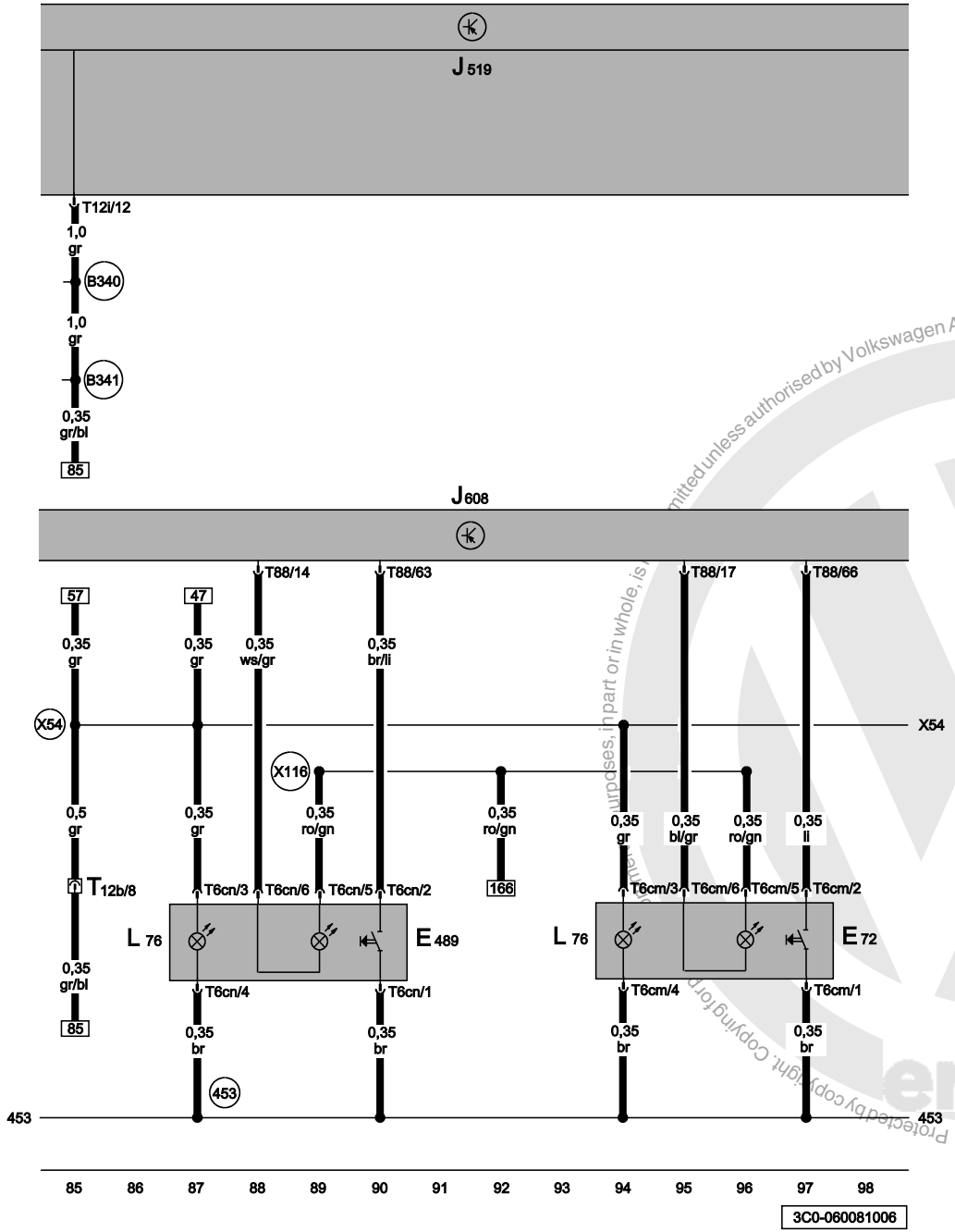


Special vehicle control unit, fuse

J519	Onboard supply control unit
J608	Special vehicle control unit
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T10af	10-pin connector, black, coupling point, left A-pillar
T10aj	10-pin connector, coupling point right of rear lid
T40	40-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
455	Earth connection 5, in optional equipment wiring harness
684	Earth point, on front of left longitudinal member
X146	Connection 8, in optional equipment wiring harness
X175	Positive connection (30a), in optional equipment wiring harness
*	models with electronics box low only
**	for models with electronics box high only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
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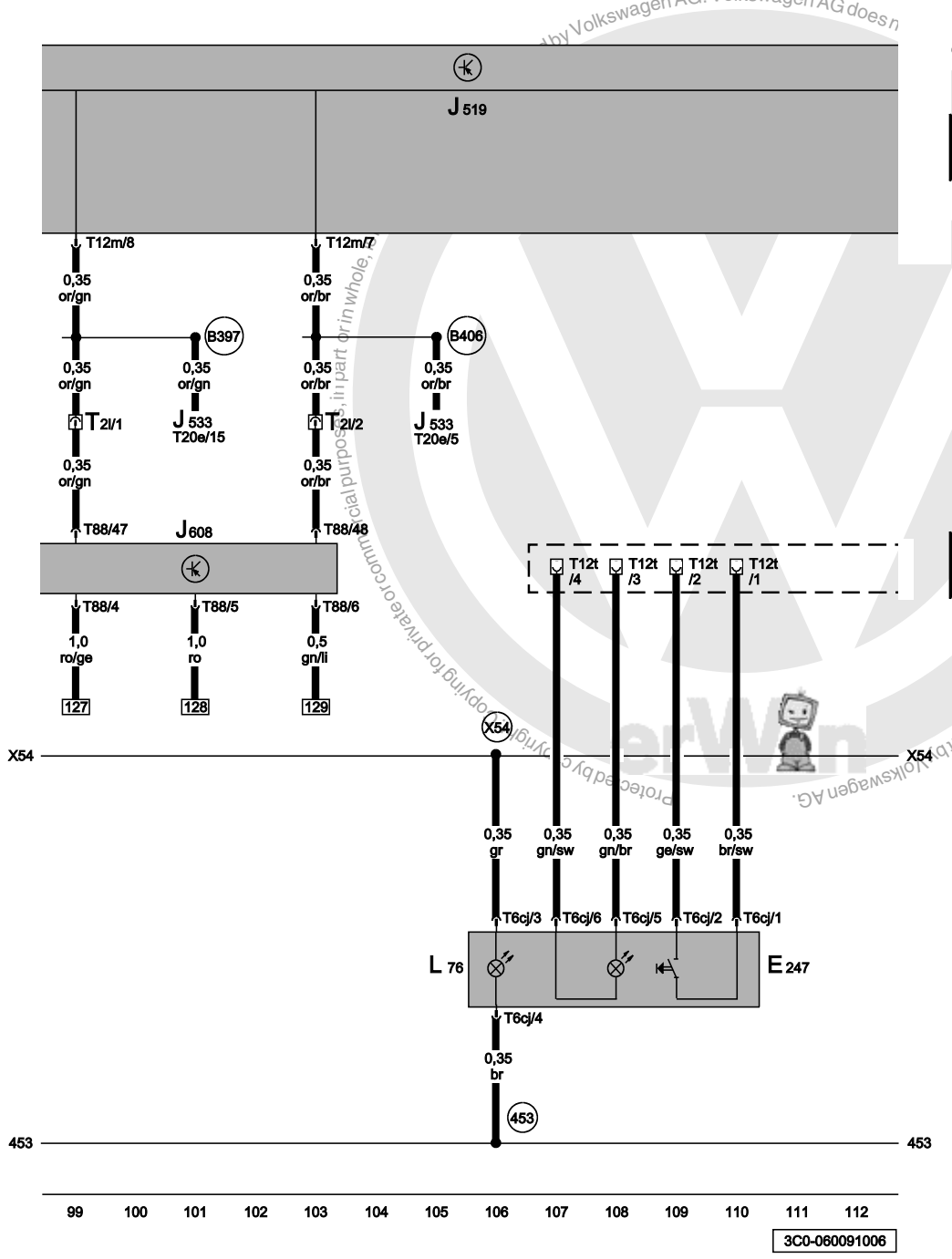


Special vehicle control unit, 2-way radio switch, engine continues to run without key button

E72	2-way radio switch
E489	Engine continues to run without key button
J519	Onboard supply control unit
J608	Special vehicle control unit
L76	Button illumination bulb
T6cm	6-pin connector, in centre console
T6cn	6-pin connector, in centre console
T12b	12-pin connector, black, coupling point, left A-pillar
T12i	12-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
X54	Positive connection (58), in optional equipment wiring harness
X116	Positive connection 2 (30), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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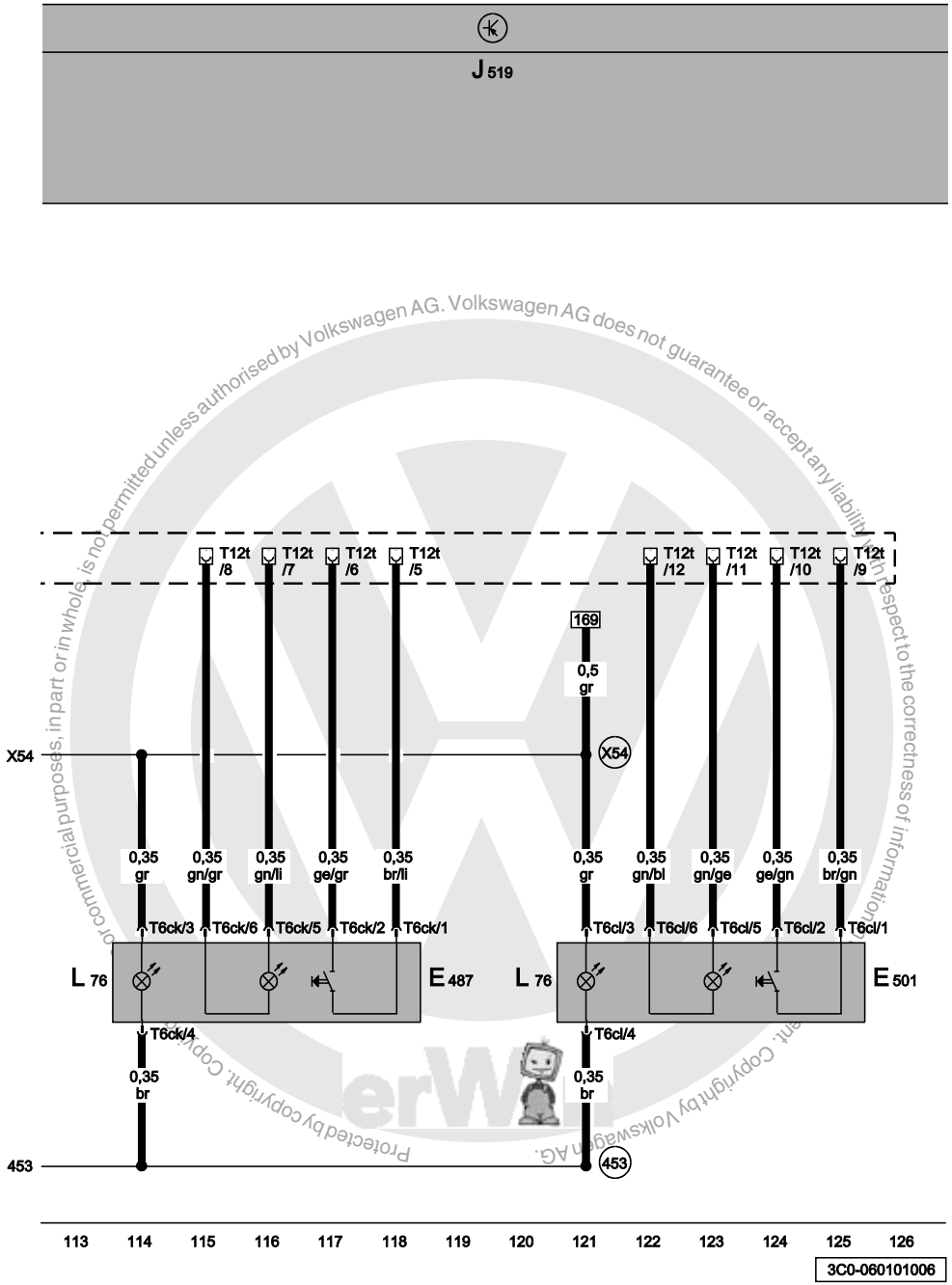


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Special vehicle control unit, onboard supply control unit, switch to trip alarm, coupling point radio button

E247	Switch to trip alarm
J519	Onboard supply control unit
J608	Special vehicle control unit
J533	Data bus diagnostic interface
L76	Button illumination bulb
T2l	2-pin connector
T6cj	6-pin connector
T12m	12-pin connector, black
T12t	12-pin connector, coupling point radio button, in luggage compartment
T20e	20-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
X54	Positive connection (58), in optional equipment wiring harness

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Hands-free system button, hands-free system button 1, coupling point radio button

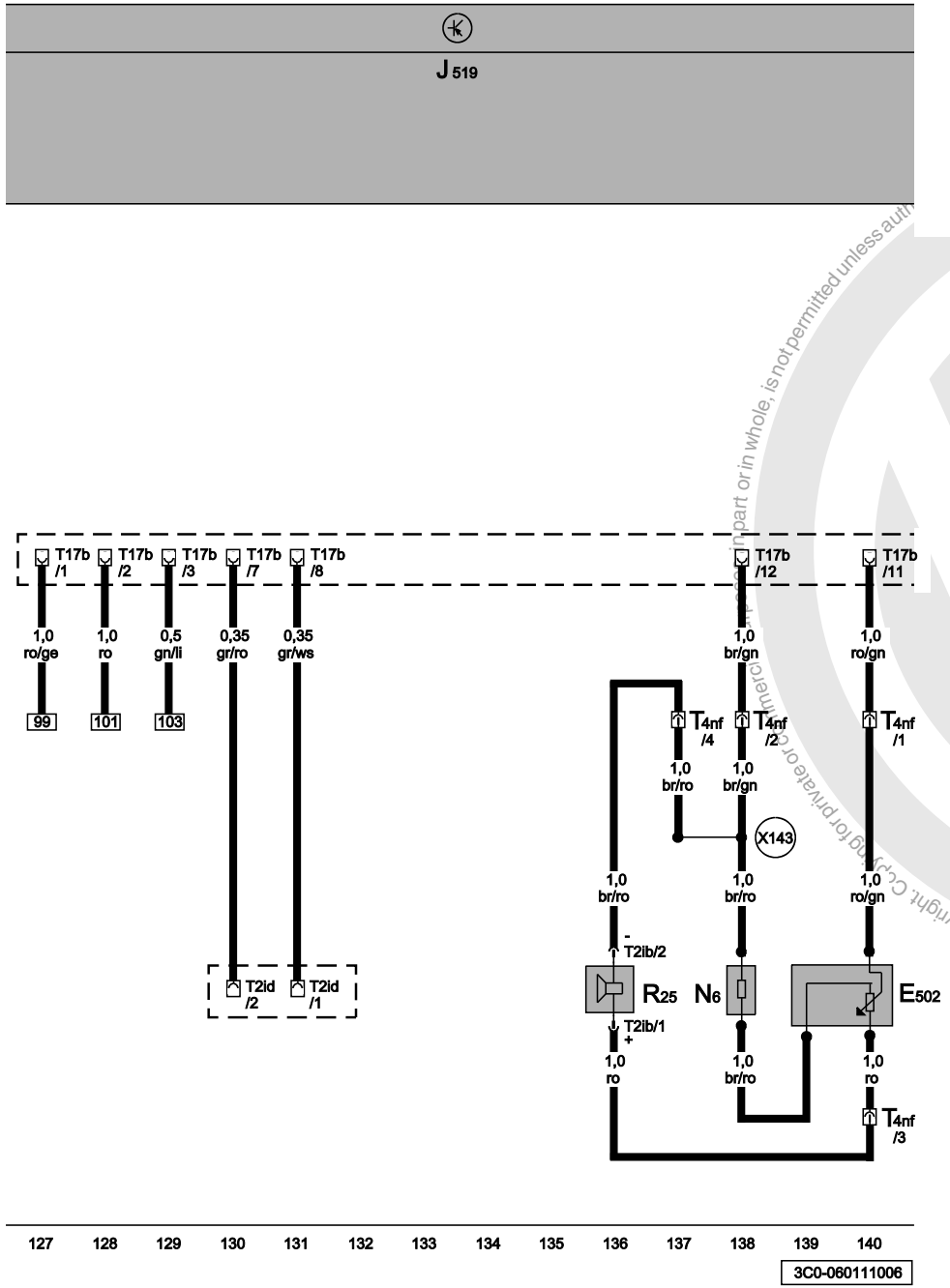
E487	Hands-free system button
E501	Hands-free system button 1
J519	Onboard supply control unit
L76	Button illumination bulb
T6ck	6-pin connector
T6cl	6-pin connector
T12t	12-pin connector, coupling point radio button, in luggage compartment
453	Earth connection 3, in optional equipment wiring harness
X54	Positive connection (58), in optional equipment wiring harness

ws	=	white
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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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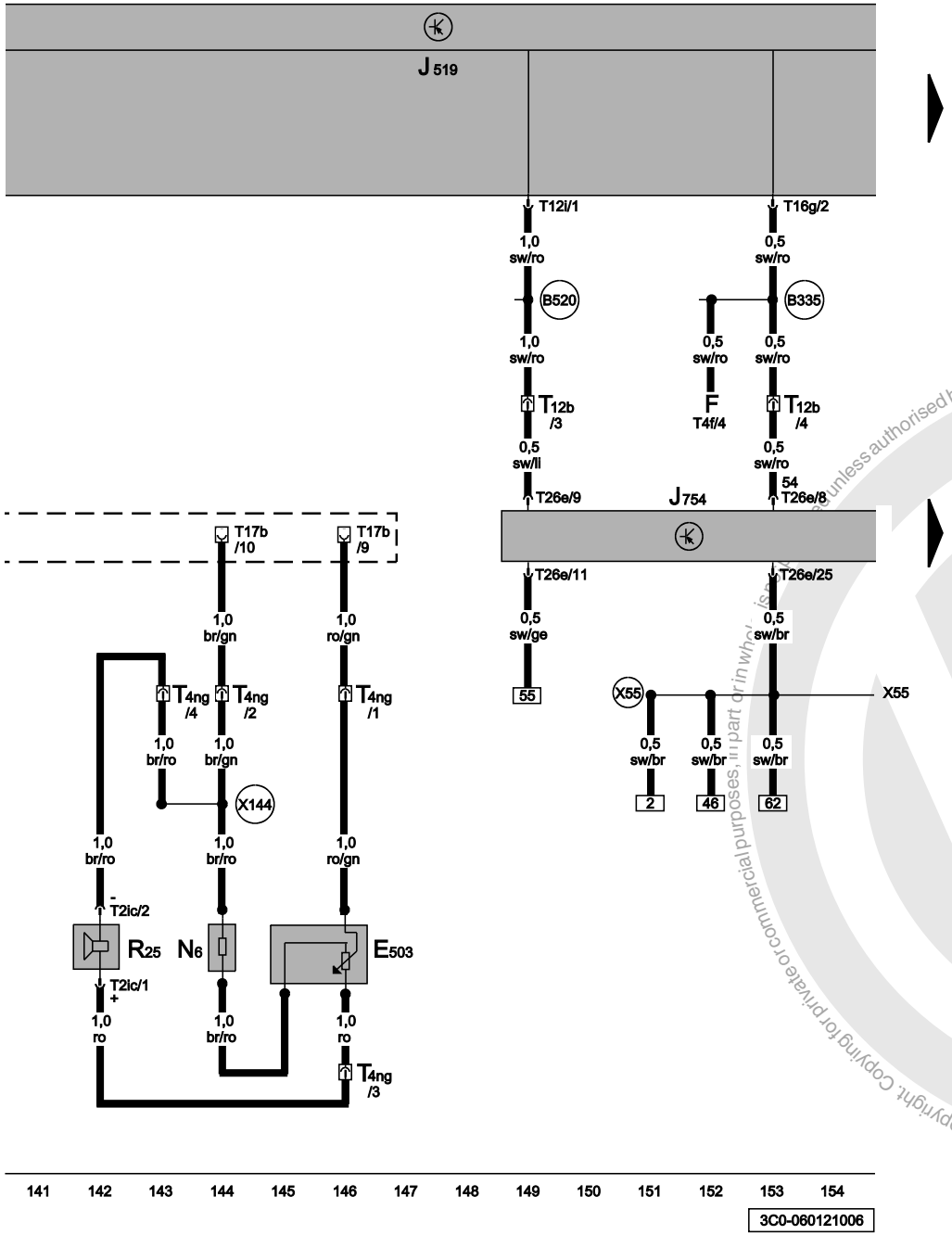
2-way radio loudspeaker volume control 1, coupling point two-way radio, coupling point microphone, two-way radio loudspeaker

E502	2-way radio loudspeaker volume control 1
J519	Onboard supply control unit
N6	Series resistor
R25	Two-way radio loudspeaker
T2ib	2-pin connector
T2id	2-pin connector, coupling point microphone
T4nf	4-pin connector, on 1-way radio loudspeaker volume control 2
T17b	17-pin connector, coupling point two-way radio in luggage compartment
X143	Positive connection 4 (30), in optional equipment wiring harness



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sw = black
ro = red
br = brown
gn = green
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li = purple
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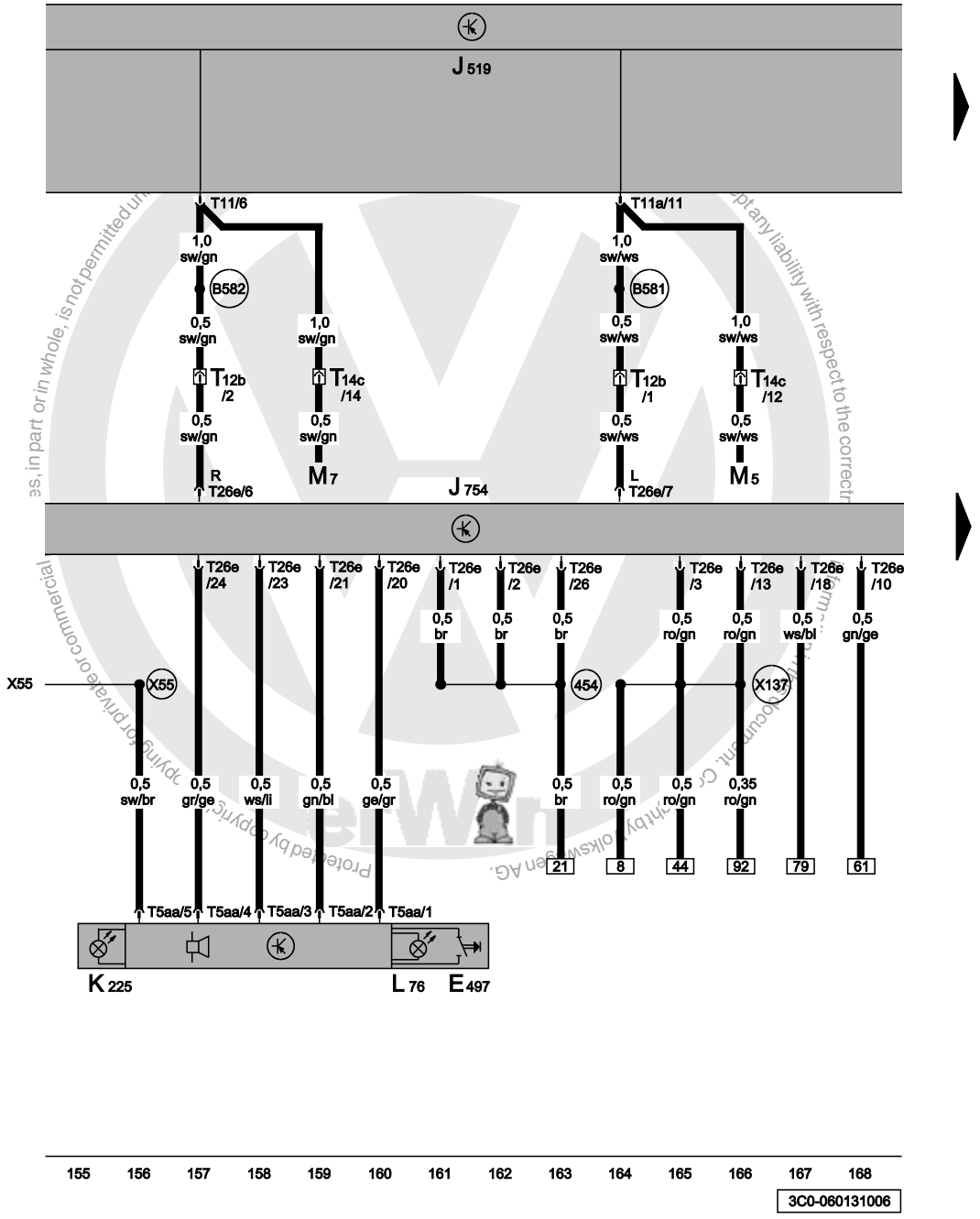


2-way radio loudspeaker volume control 2, coupling point two-way radio, two-way radio loudspeaker, onboard supply control unit, accident data memory

E503	2-way radio loudspeaker volume control 2
F	Brake light switch
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
N6	Series resistor
R25	Two-way radio loudspeaker
T2ic	2-pin connector
T4f	4-pin connector
T4ng	4-pin connector, on 2-way radio loudspeaker volume control 2
T12b	12-pin connector, black, coupling point, left A-pillar
T12i	12-pin connector, black
T16g	16-pin connector, black
T17b	17-pin connector, coupling point two-way radio in luggage compartment
T26e	26-pin connector
B335	Connection 1 (54), in main wiring harness
B520	Connection (RL), in main wiring harness
X55	Positive connection (15), in optional equipment wiring harness
X144	Positive connection 5 (30), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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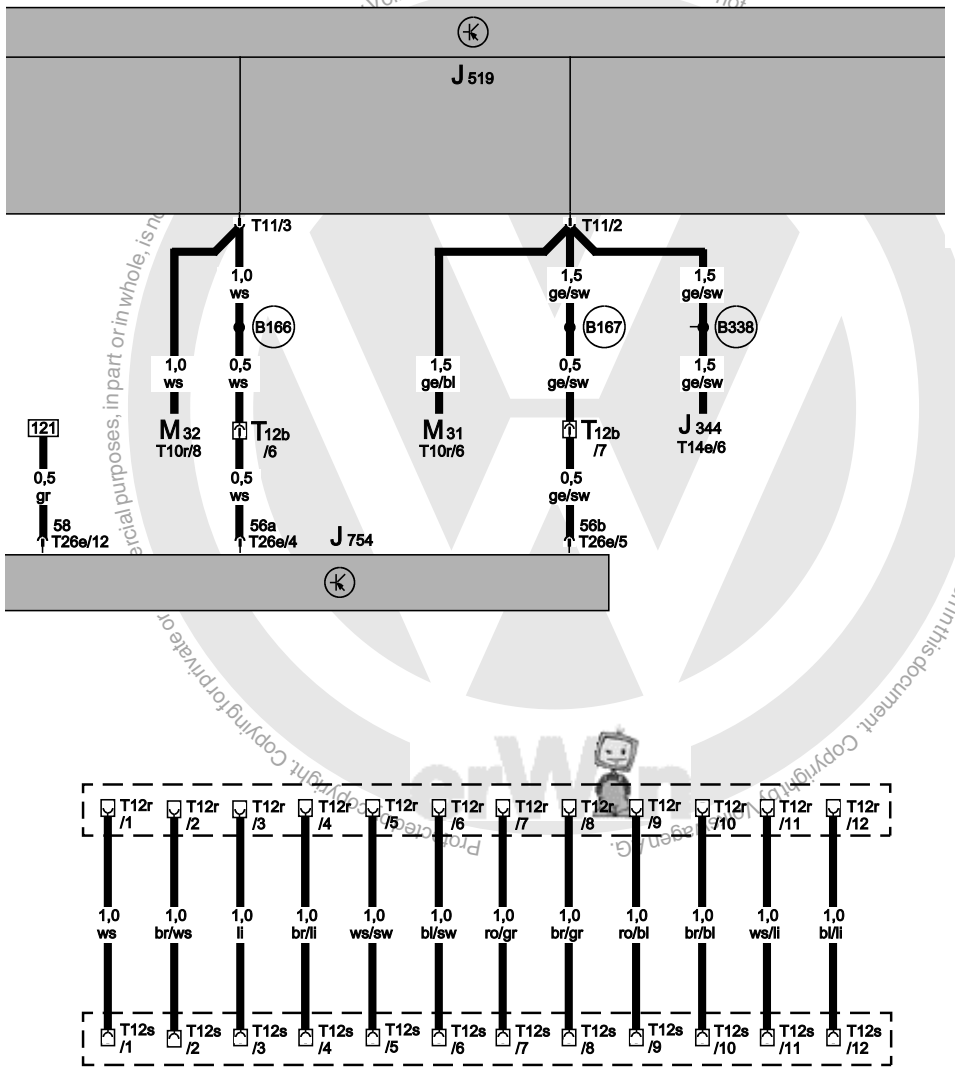
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Accident data recorder, accident data recorder button, accident recorder warning lamp

E497	Accident data recorder button
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
K225	Accident recorder warning lamp
L76	Button illumination bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
T5aa	5-pin connector
T11	11-pin connector, black
T11a	11-pin connector, brown
T12b	12-pin connector, black, coupling point, left A-pillar
T14c	14-pin connector, coupling point bumper front left
T26e	26-pin connector
454	Earth connection 4, in optional equipment wiring harness
B581	Positive connection (left indicator lamp), interior wiring harness
B582	Positive connection (right indicator lamp), interior wiring harness
X55	Positive connection (15), in optional equipment wiring harness
X137	Positive connection 2 (30a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
rs	=	pink



Accident data memory, right dipped beam bulb, right main beam bulb, special vehicle fuse 2

A	Battery
J344	Right gas discharge light control unit
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
M31	Right dipped beam bulb
M32	Right main beam bulb
T10r	10-pin connector, black
T11	11-pin connector, black
T12b	12-pin connector, black, coupling point, left A-pillar
T12r	12-pin connector, coupling point two-way radio, right A-pillar
T12s	12-pin connector, coupling point two-way radio in luggage compartment
T14e	14-pin connector, on front right headlight
T26e	26-pin connector
B166	Connection (56a), in interior wiring harness
B167	Connection (56b), in interior wiring harness
B338	Connection 1 (56), in main wiring harness

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1.9 l/77 kW - Turbodiesel, engine code BLS

from November 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

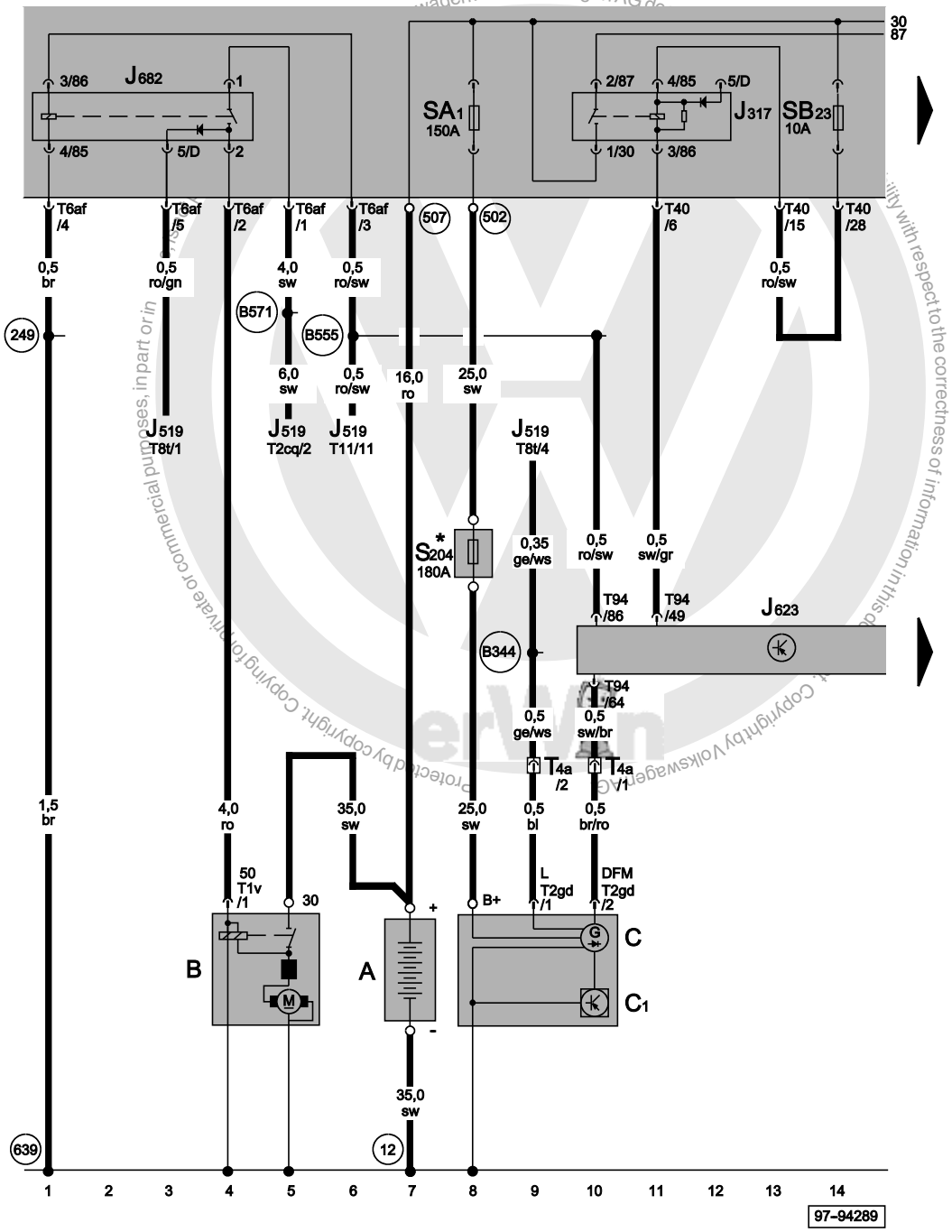
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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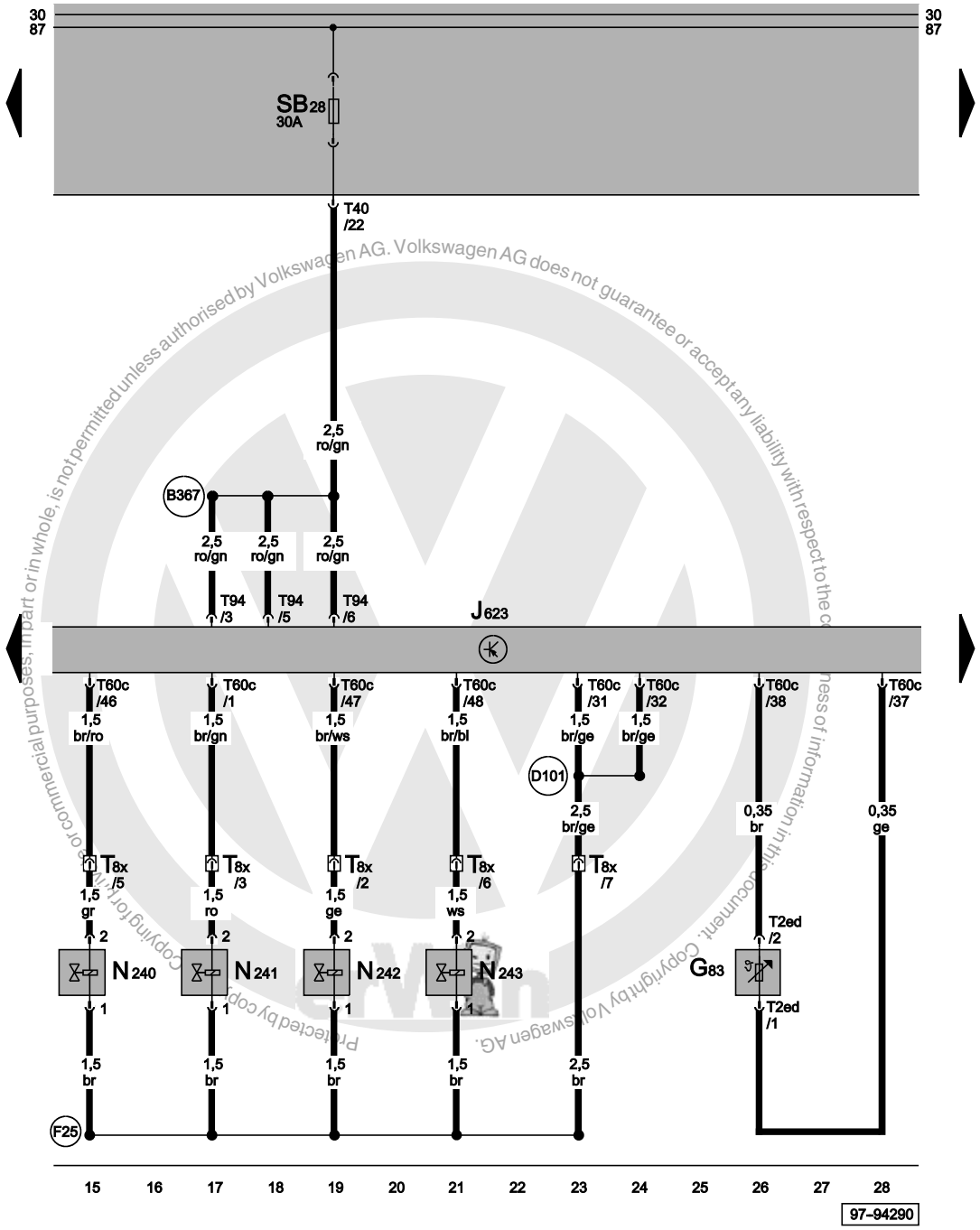


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Terminals 30 + 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SB23	Fuse 23 on fuse holder B
T1v	Single connector
T2cq	2-pin connector
T2gd	2-pin connector
T4a	4-pin connector, near starter
T6af	6-pin connector, on electronics box
T8t	8-pin connector
T11	11-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T94	94-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
502	Screw connection 1 (30a), on relay plate
507	Screw connection (30), on fuse holder on battery
639	Earth point, left A-pillar
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	only models with 180 A alternator

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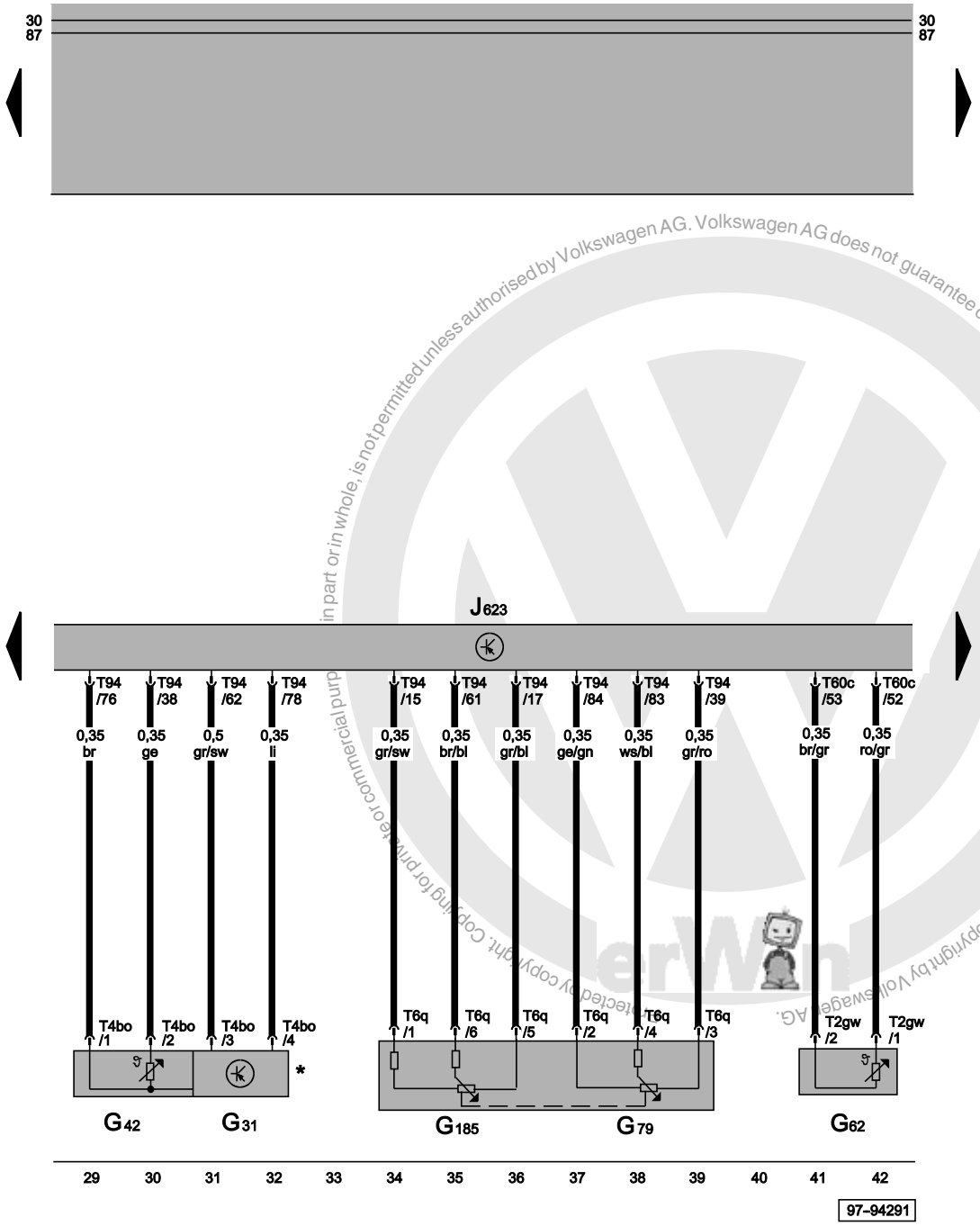


Engine control unit, radiator outlet coolant temperature sender, unit injector valves, No. 1 cyl. to No. 4

G83	Radiator outlet coolant temperature sender
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
SB28	Fuse 28 on fuse holder B
T2ed	2-pin connector
T8x	8-pin connector, near injectors
T40	40-pin connector, under electronics box, in engine compartment
T60c	60-pin connector
T94	94-pin connector
B367	Positive connection 18 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
F25	Connection 1, in diesel direct injection system wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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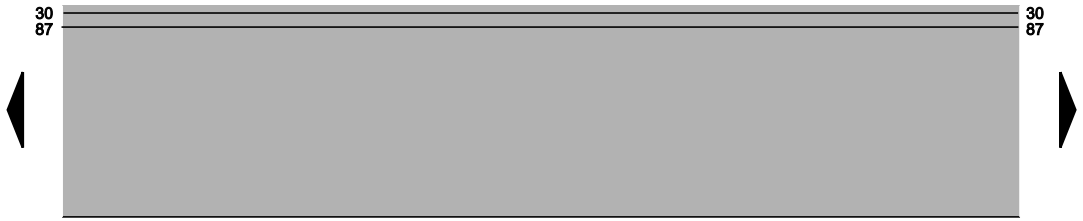


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender 2, coolant temperature sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T2gw	2-pin connector
T4bo	4-pin connector
T6q	6-pin connector
T60c	60-pin connector
T94	94-pin connector
*	only models with diesel particulate filter

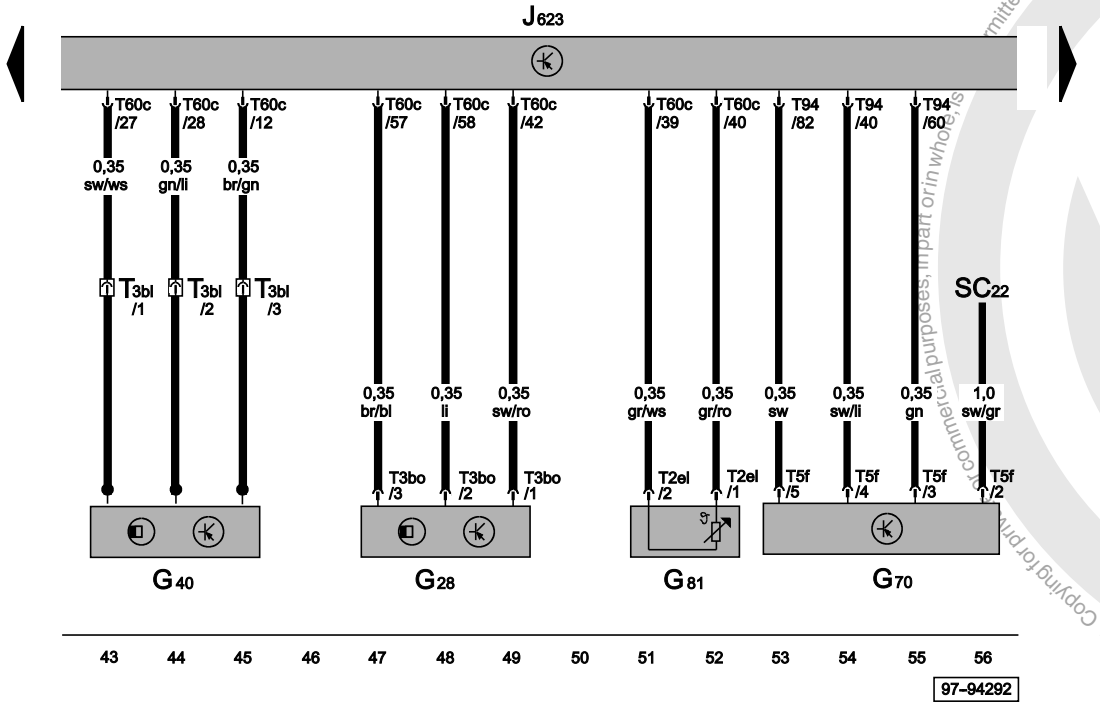
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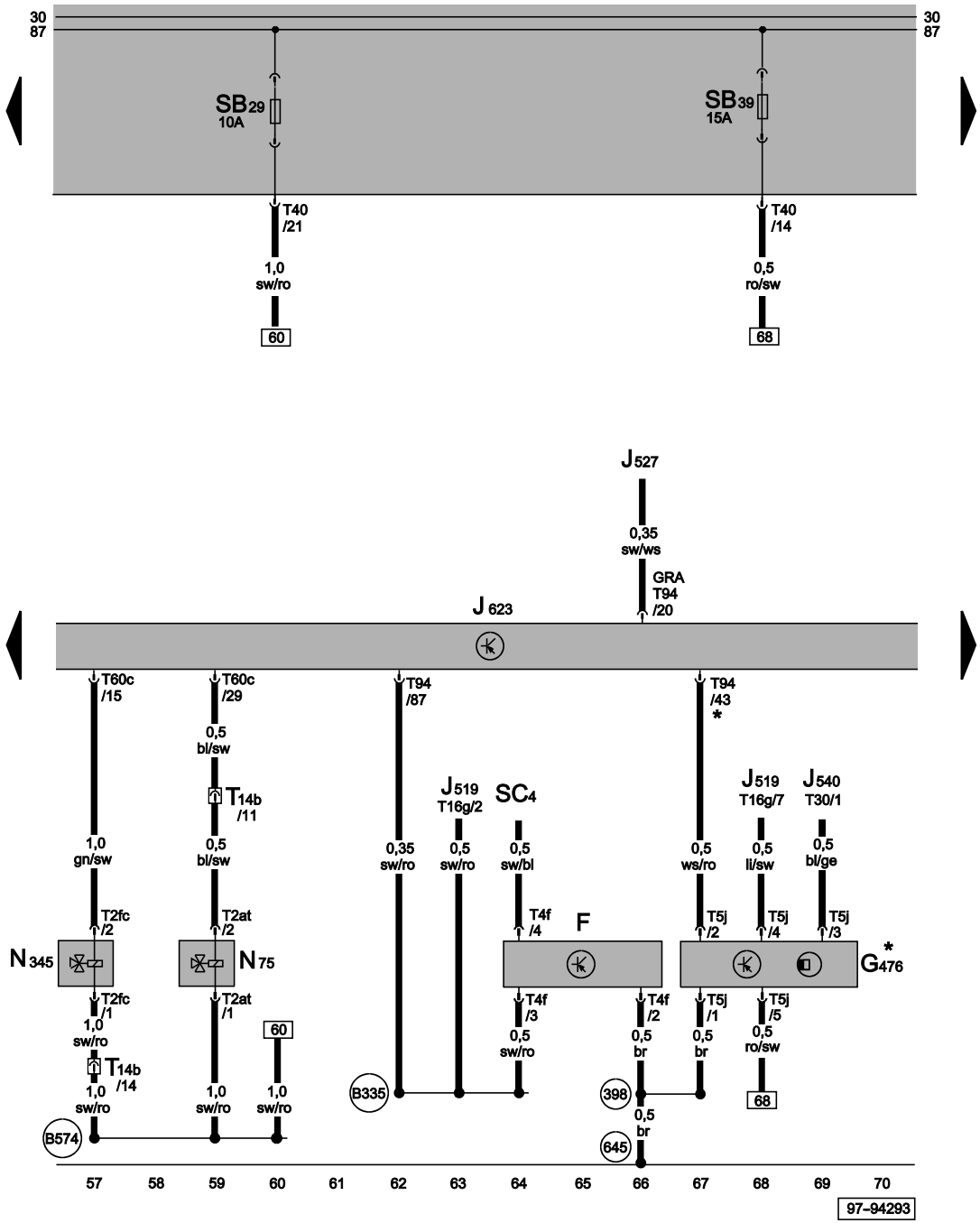
Engine control unit, engine speed sender, Hall sender, fuel temperature sender, air mass meter

G28	Engine speed sender
G40	Hall sender
G70	Air mass meter
G81	Fuel temperature sender
J623	Engine control unit
SC22	Fuse 22 on fuse holder C
T2el	2-pin connector
T3bl	3-pin connector, grey
T3bo	3-pin connector
T5f	5-pin connector
T60c	60-pin connector
T94	94-pin connector



ws	=	white
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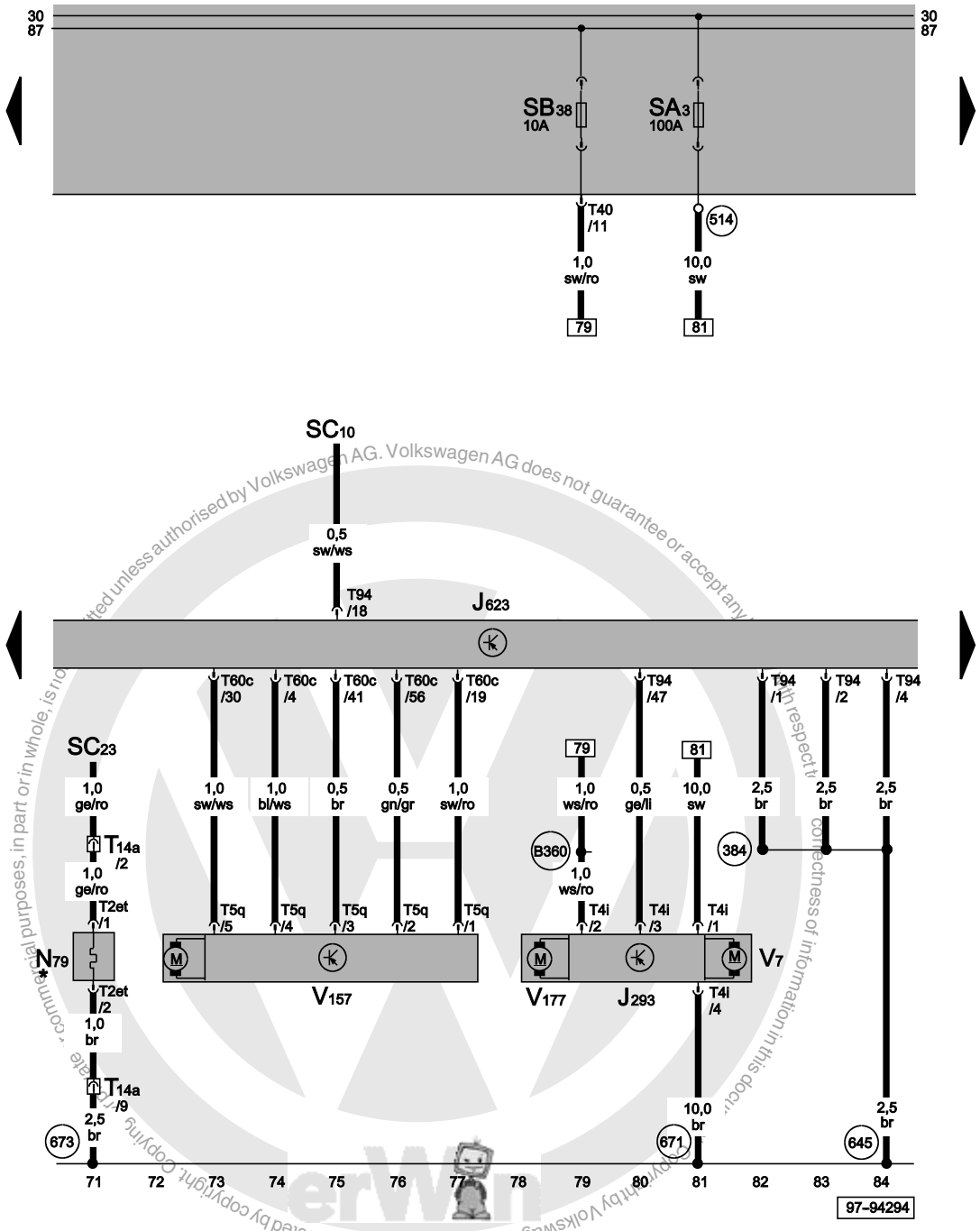


Engine control unit, clutch position sender, brake light switch, brake pedal switch, charge pressure control solenoid valve

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Electric park and handbrake control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler change-over valve
SB29	Fuse 29 on fuse holder B
SB39	Fuse 39 on fuse holder B
SC4	Fuse 4 on fuse holder C
T2at	2-pin connector
T2fc	2-pin connector
T4f	4-pin connector
T5j	5-pin connector
T14b	14-pin connector, coupling point 2 in left engine compartment
T16g	16-pin connector
T30	30-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T60c	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B574	Positive connection 20 (87a), in main wiring harness
*	models with manual gearbox

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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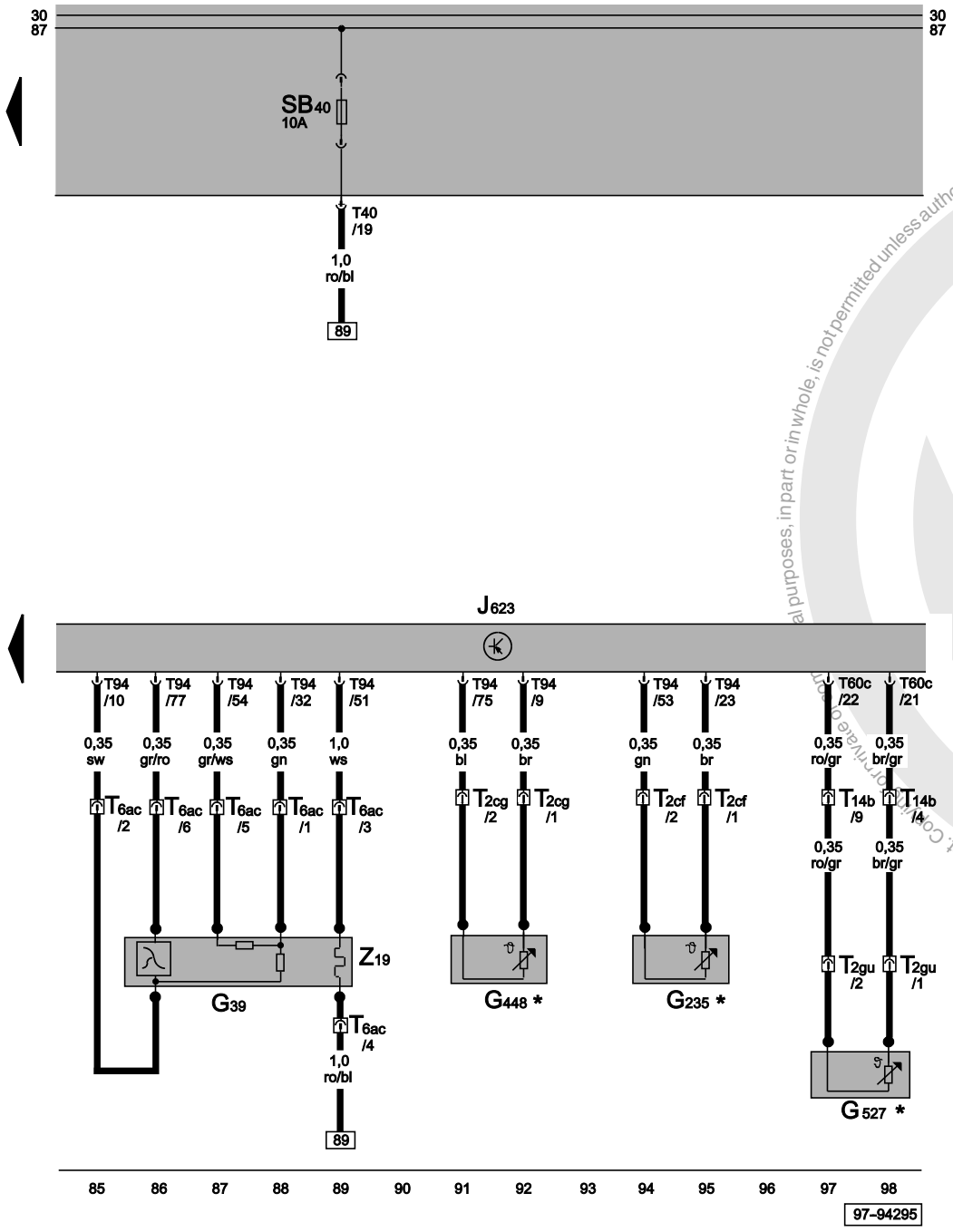


ws = white
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Engine control unit, heater element for crankcase breather, radiator fan, intake manifold flap motor

J293	Radiator fan control unit
J623	Engine control unit
N79	Heater element for crankcase breather
SA3	Fuse 3 on fuse holder A
SB38	Fuse 38 on fuse holder B
SC10	Fuse 10 on fuse holder C
SC23	Fuse 23 on fuse holder C
T2et	2-pin connector
T4i	4-pin connector
T5q	5-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T60c	60-pin connector
T94	94-pin connector
V7	Radiator fan
V157	Intake manifold flap motor
V177	Radiator fan 2
384	Earth connection 19, in main wiring harness
514	Screw connection 4 (30a), on relay plate
645	Earth point 1, on bulkhead
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B360	Positive connection 11 (87a), in main wiring harness
*	models for cold countries only

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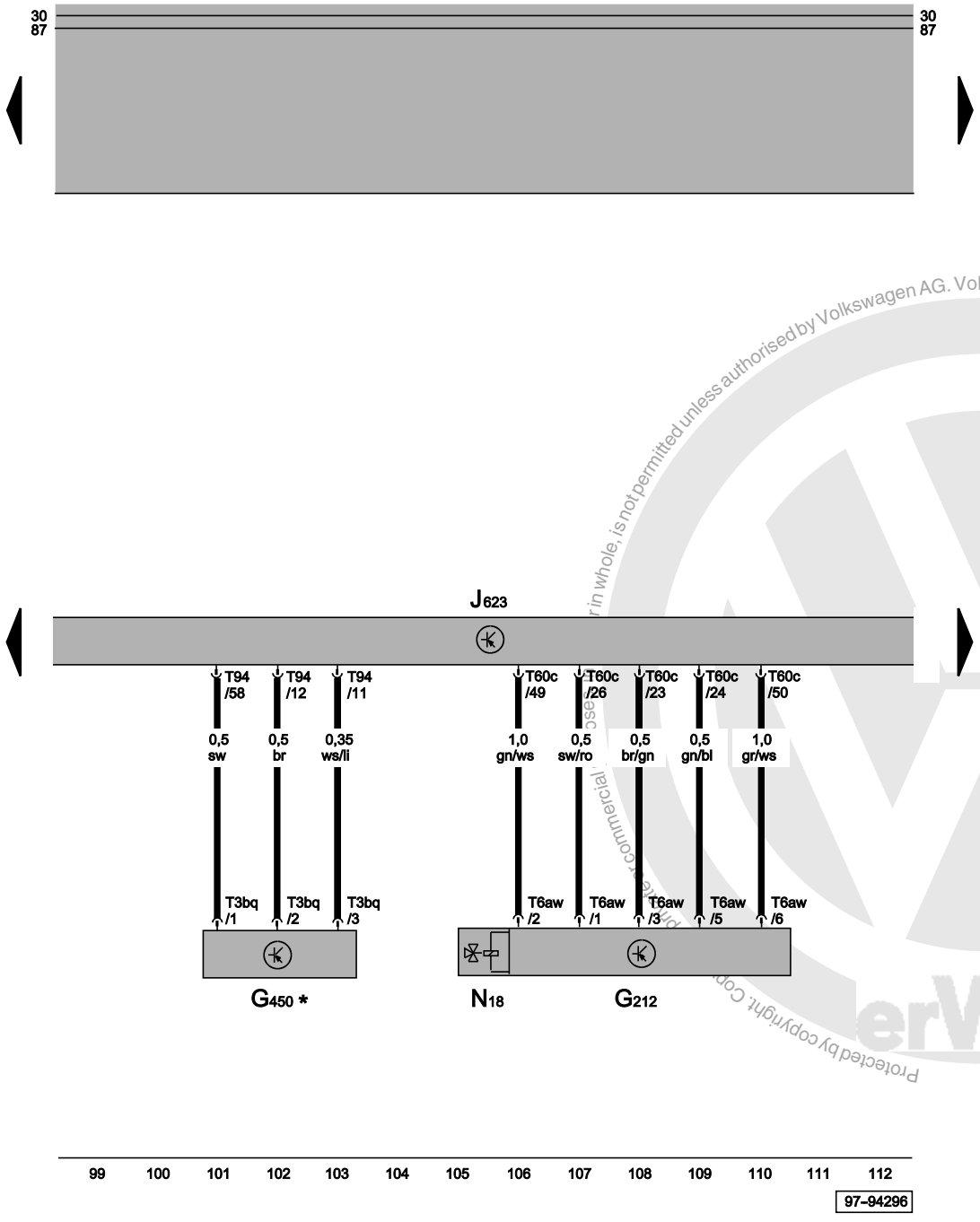


Engine control unit, lambda probe, exhaust gas temperature sender 1, temperature sender after particulate filter

G39	Lambda probe
G235	Exhaust gas temperature sender 1
G448	Bank 1 exhaust gas temperature sender 2
G527	Temperature sender after particulate filter
J623	Engine control unit
SB40	Fuse 40 on fuse holder B
T2cf	2-pin connector
T2cg	2-pin connector
T2gu	2-pin connector
T6ac	6-pin connector, connector point lambda probe
T14b	14-pin connector, coupling point 2 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T60c	60-pin connector
T94	94-pin connector
Z19	Lambda probe heater
*	only models with diesel particulate filter

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

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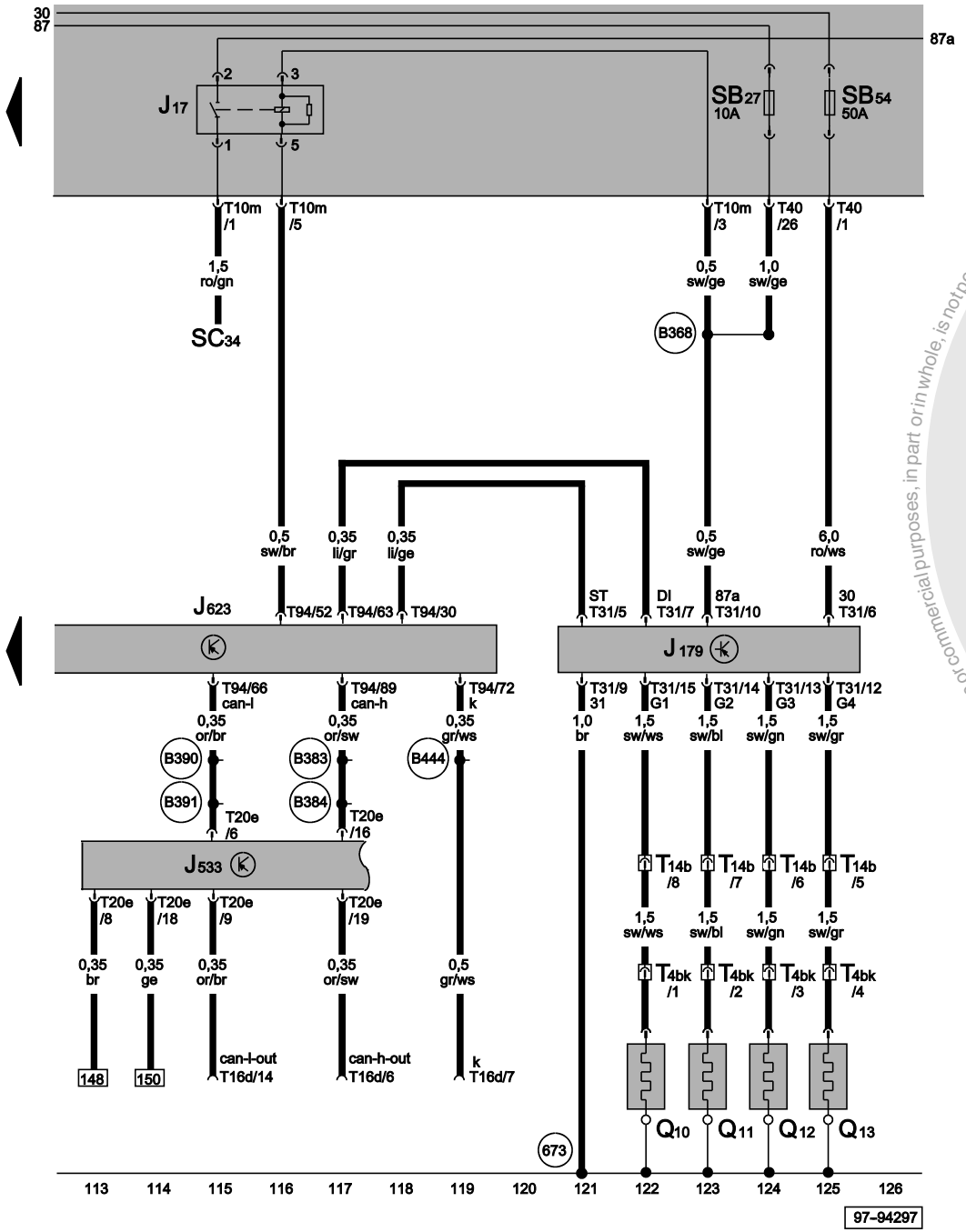


Engine control unit, exhaust gas pressure sensor 1, exhaust gas recirculation potentiometer, exhaust gas recirculation valve

G212	Exhaust gas recirculation potentiometer
G450	Exhaust gas pressure sensor 1
J623	Engine control unit
N18	Exhaust gas recirculation valve
T3bq	3-pin connector
T6aw	6-pin connector
T60c	60-pin connector
T94	94-pin connector
*	only models with diesel particulate filter

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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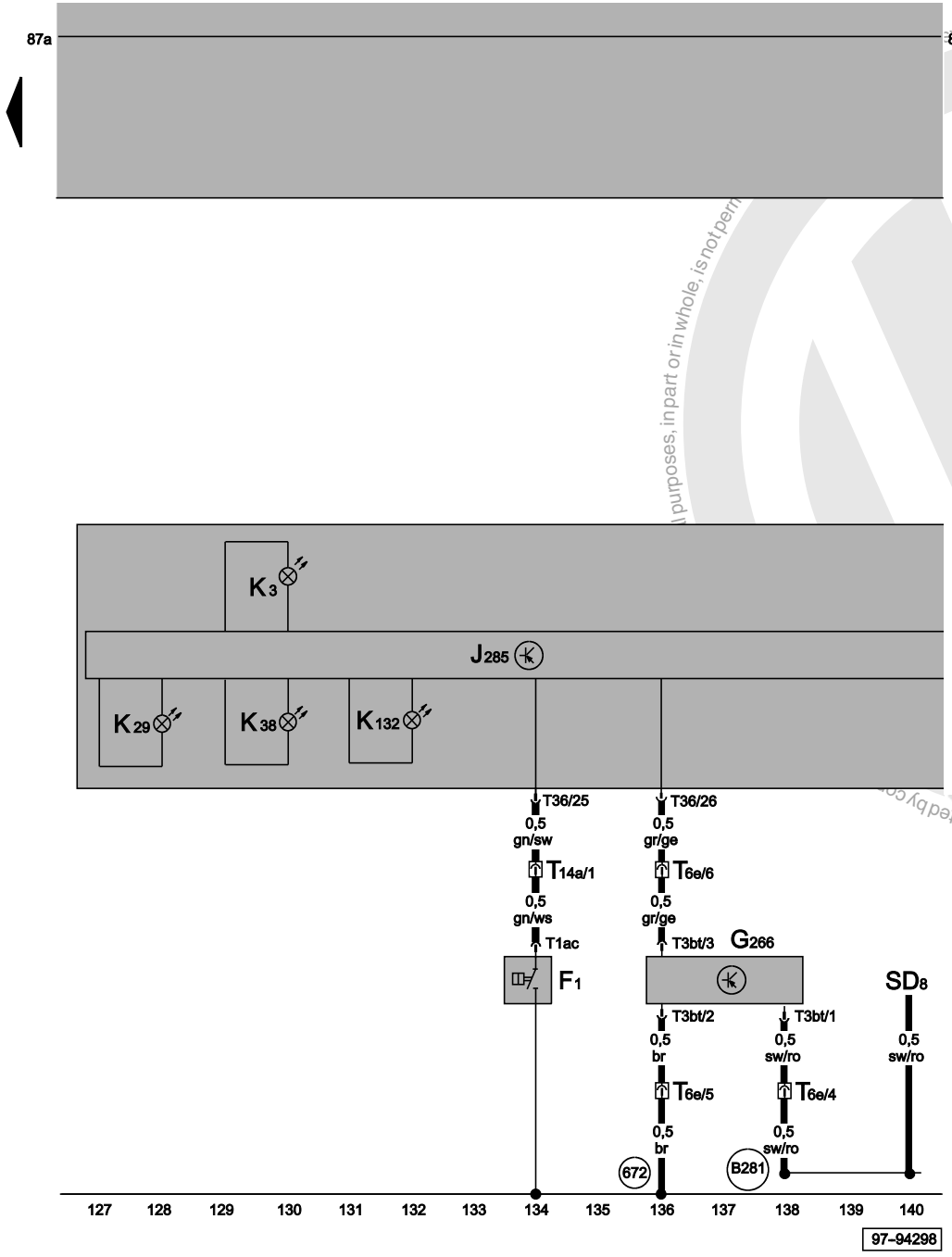


Engine control unit, automatic glow period control unit, glow plugs 1 to 4, data bus diagnostic interface, self-diagnosis connection

J17	Fuel pump relay
J179	Automatic glow period control unit
J533	Data bus diagnostic interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
SB27	Fuse 27 on fuse holder B
SB54	Fuse 54 on fuse holder B
SC34	Fuse 34 on fuse holder C
T4bk	4-pin connector, coupling point glow plugs
T10m	10-pin connector, on electronics box
T14b	14-pin connector, coupling point 2 in left engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T31	31-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T94	94-pin connector
673	Earth point 3, on front of left longitudinal member
B368	Positive connection 19 (87a), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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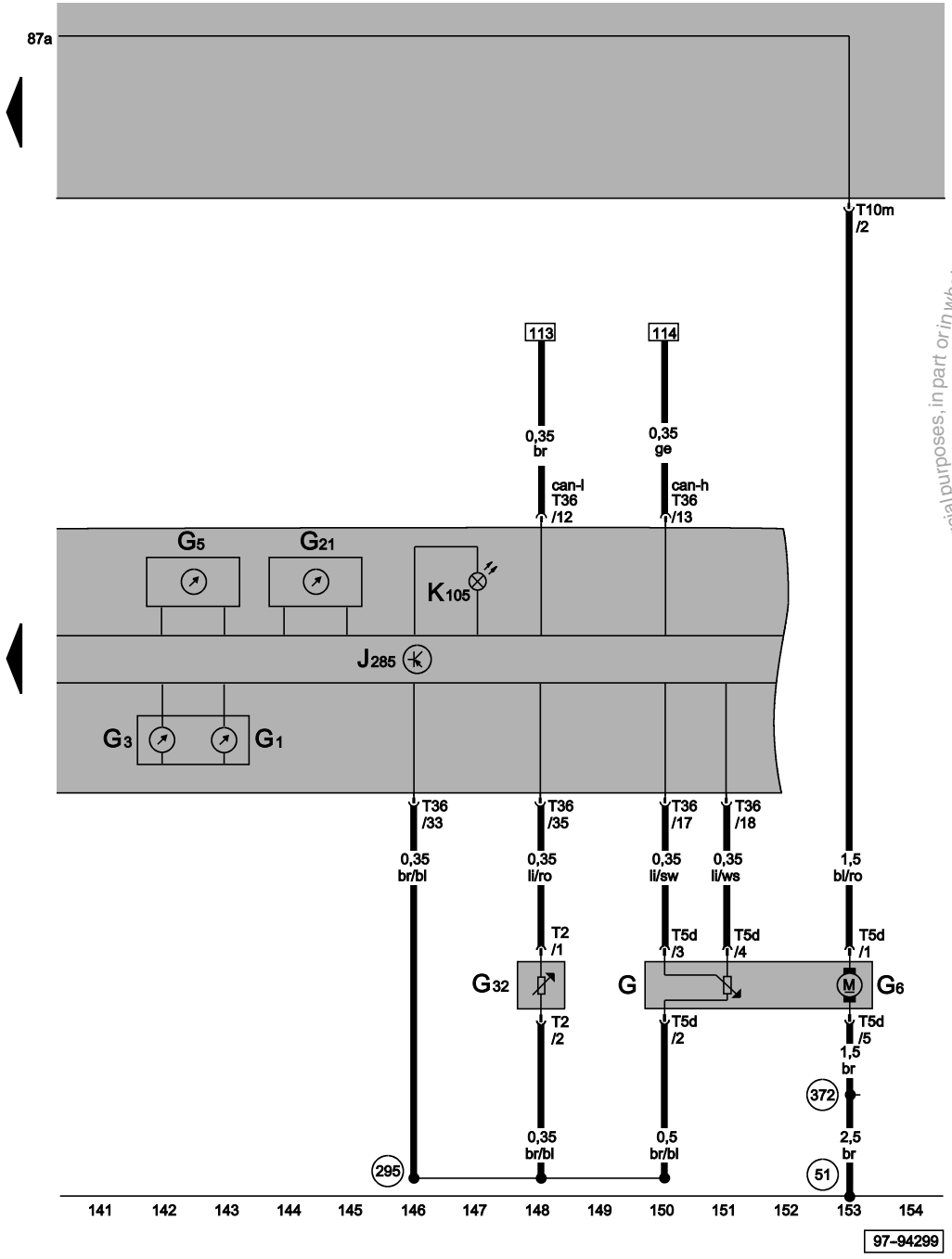


Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K3	Oil pressure warning lamp
K29	Glow period warning lamp
K38	Oil level warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T3bt	3-pin connector
T6e	6-pin connector, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
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Dash panel insert, rev. counter, speedometer, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
K105	Reserve fuel warning lamp
T2	2-pin connector
T5d	5-pin connector
T10m	10-pin connector, under electronics box
T36	36-pin connector
51	Earth point, on right in luggage compartment
295	Earth connection 10, in interior wiring harness
372	Earth connection 7, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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Radio and navigation system: RNS 300

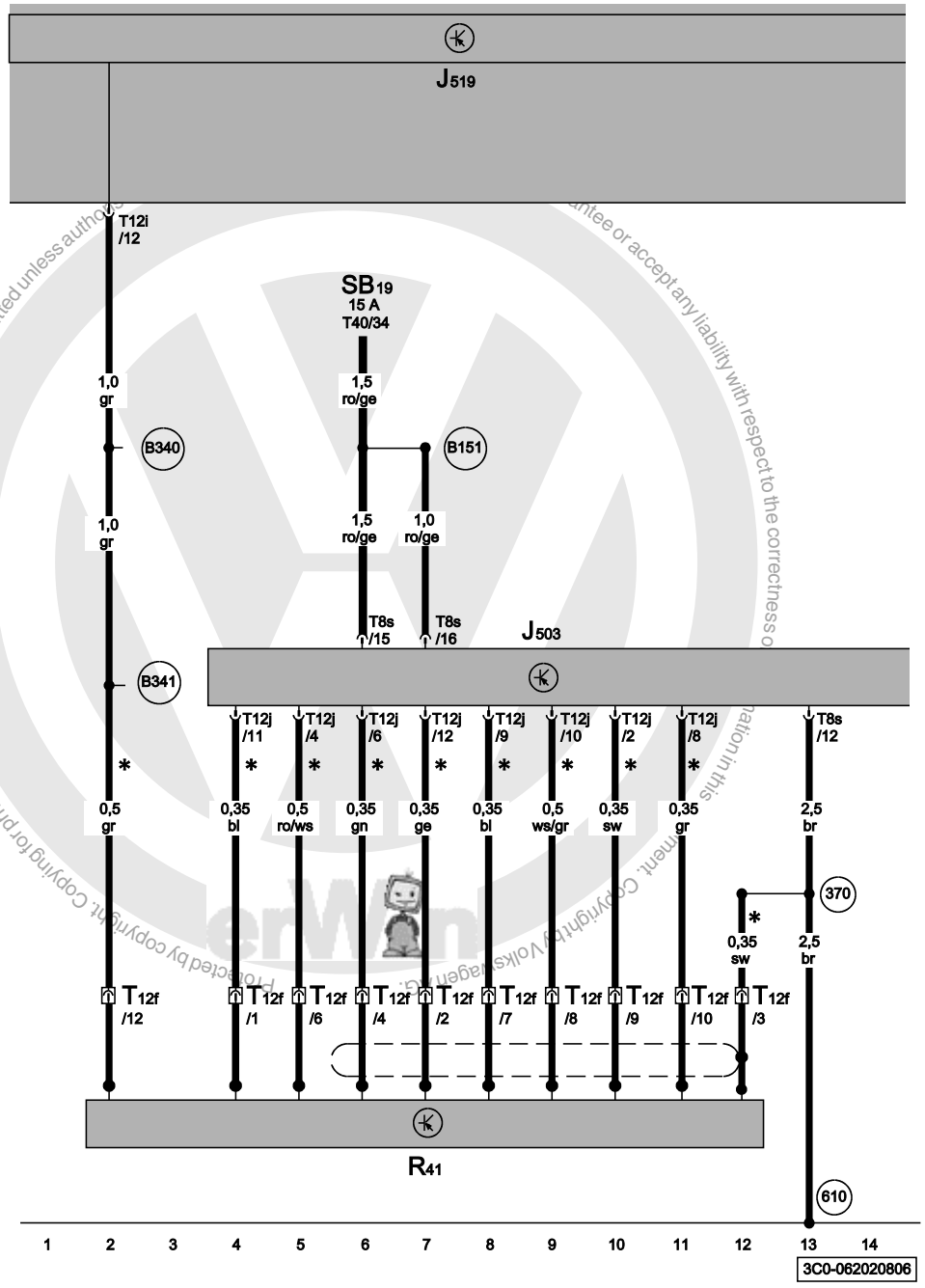
⇒ **CD changer**
⇒ **8 loudspeakersystem**
from November 2004

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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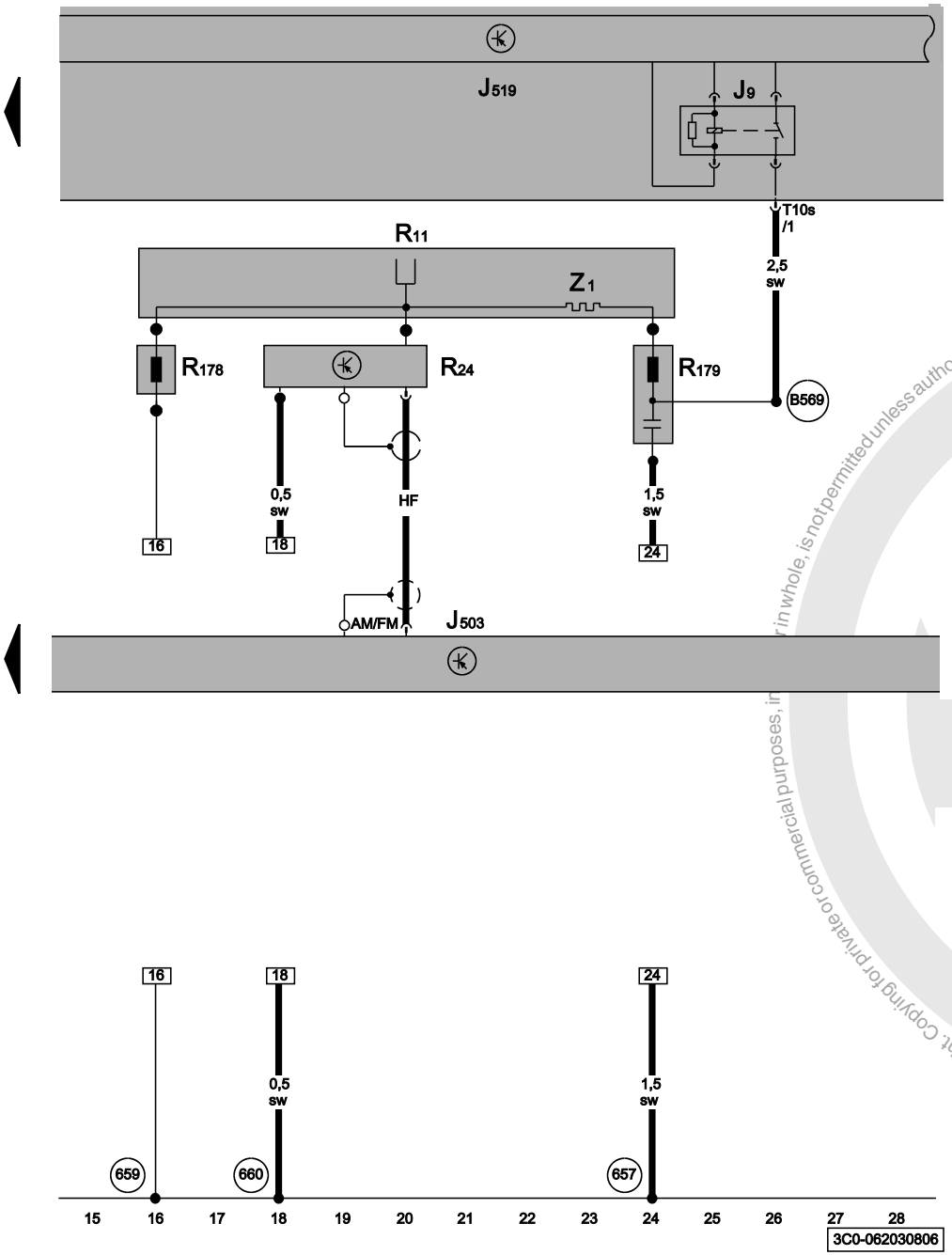


Control unit with display for radio and navigation system, CD changer

J503	Control unit with display for radio and navigation system
J519	Onboard supply control unit
R41	CD changer
SB19	Fuse 19 on fuse holder B
T8s	8-pin connector, black
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector
T40	40-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), under centre console, front
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	for models with external CD changer only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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Control unit with display for radio and navigation system, aerial amplifier, aerial, heated rear window relay

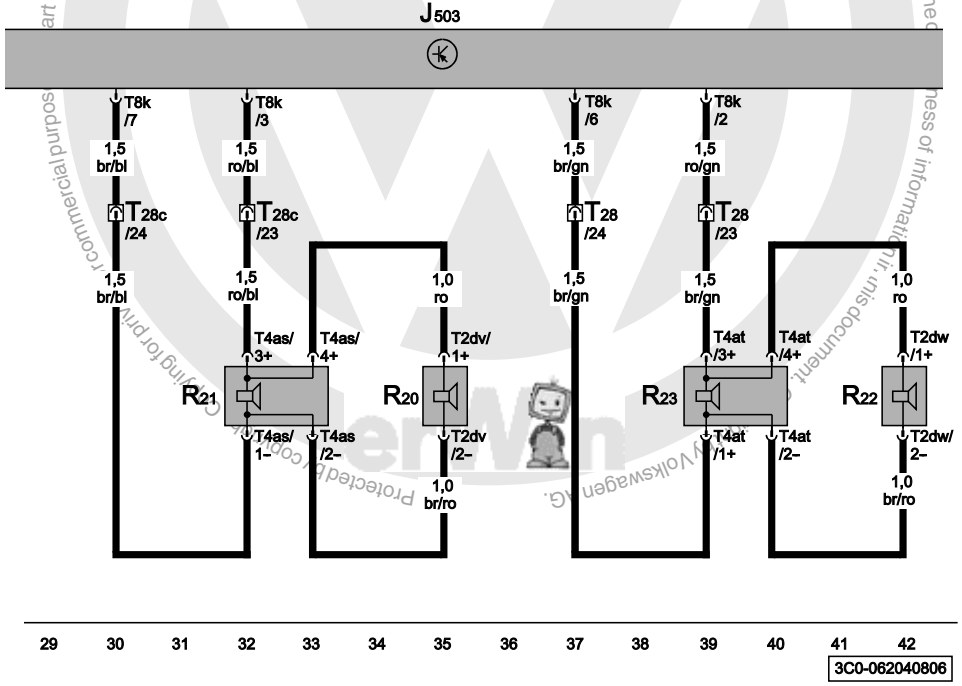
J9	Heated rear window relay
J503	Control unit with display for radio and navigation system
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
659	Earth point 1, on right near rear window
660	Earth point 2, on right near rear window
B569	Connection 36, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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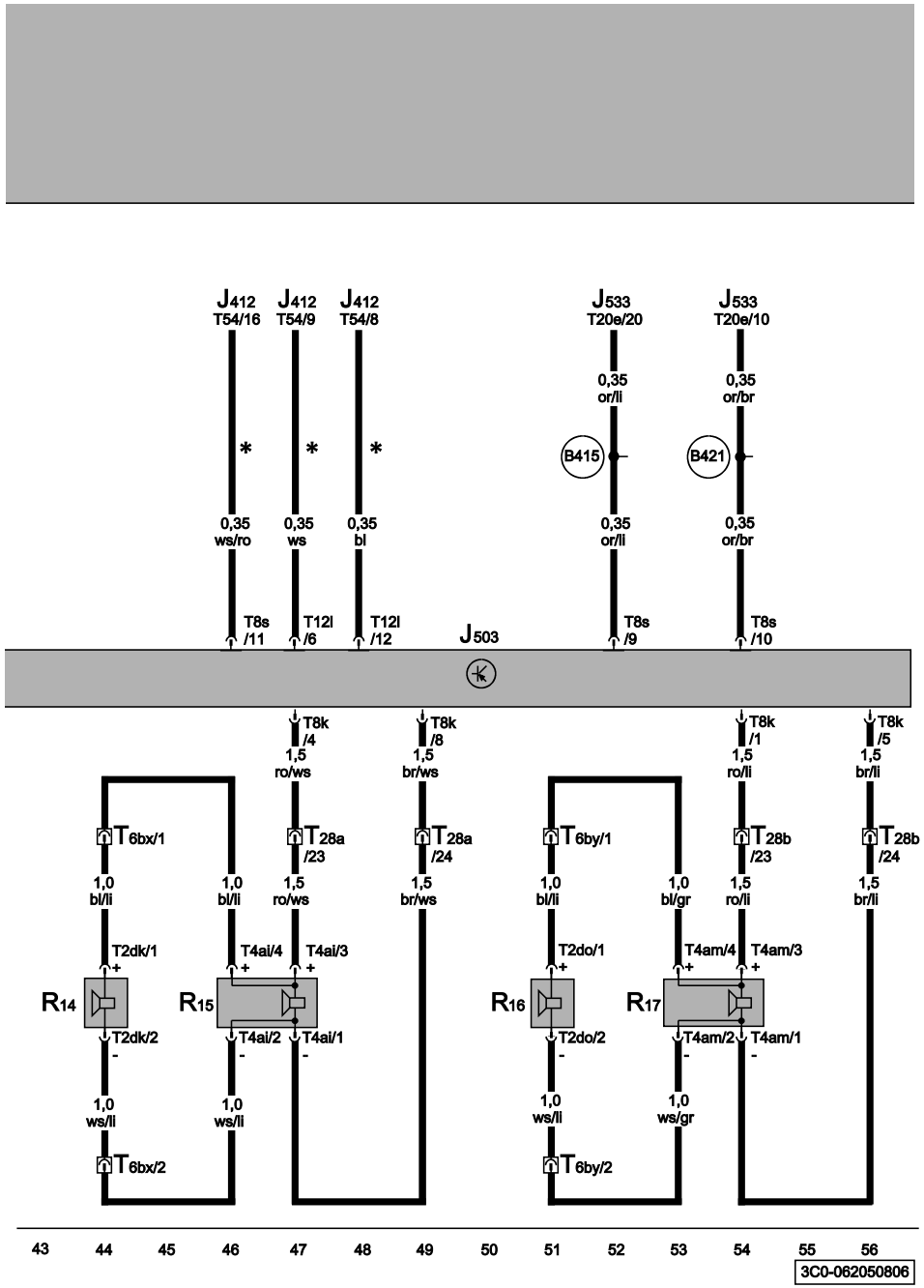
Control unit with display for radio and navigation, treble loudspeaker and front door bass loudspeaker

J503	Control unit with display for radio and navigation system
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T8k	8-pin connector, brown
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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Control unit with display for radio and navigation, treble loudspeaker and rear door bass loudspeaker

J412	Mobile telephone operating electronics control unit
J503	Control unit with display for radio and navigation system
J533	Data bus diagnostic interface
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T8k	8-pin connector, brown
T8s	8-pin connector, black
T12l	12-pin connector
T20e	20-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
T54	54-pin connector
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	models with microphone only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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2.0 l/100 kW and 103 kW - turbo diesel, engine codes BMA, BKP

From May 2005

2.0 l/90 kW - turbo diesel, engine code BVE

From May 2005

2.0 l/88 kW - turbo diesel, engine code BVW

From January 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

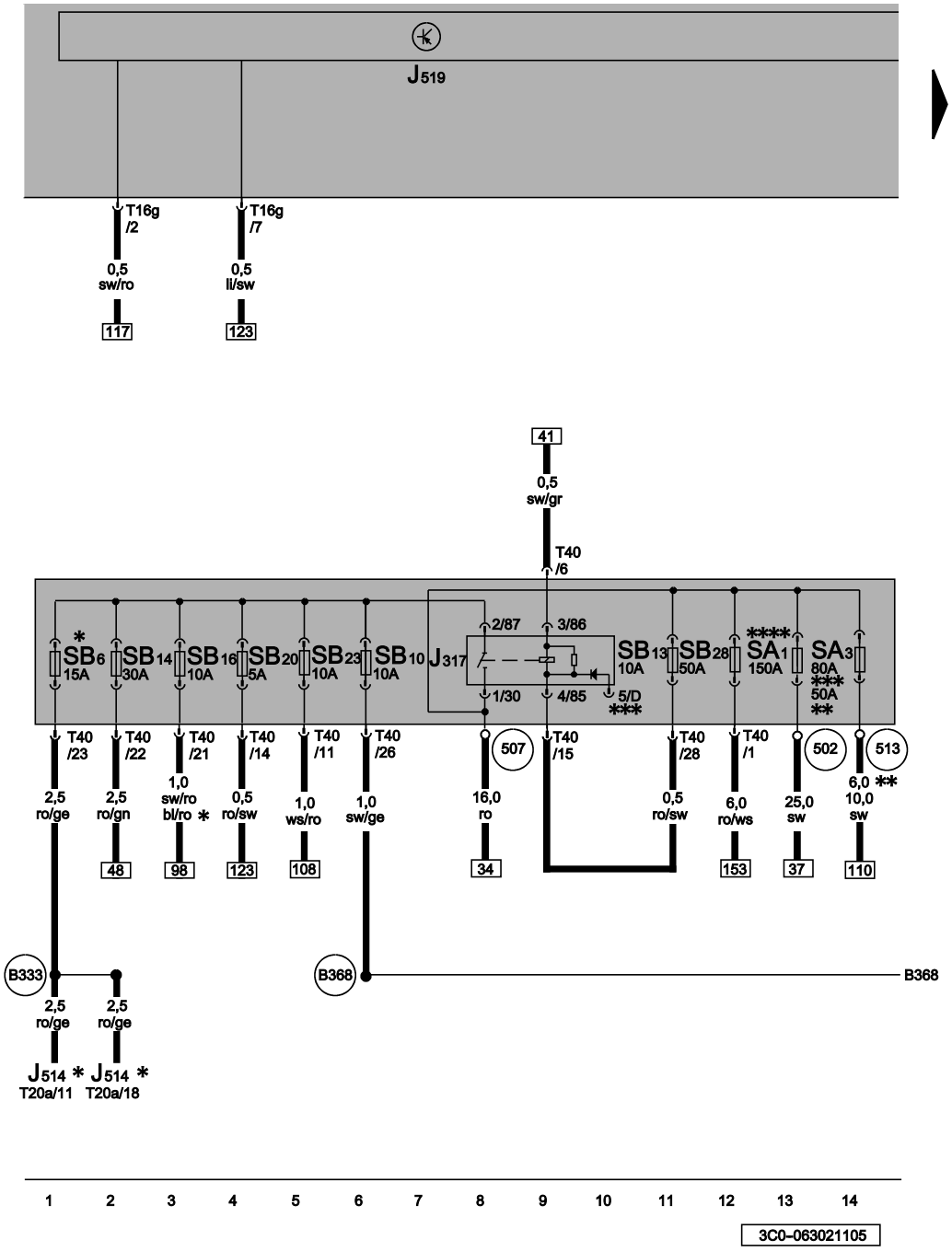
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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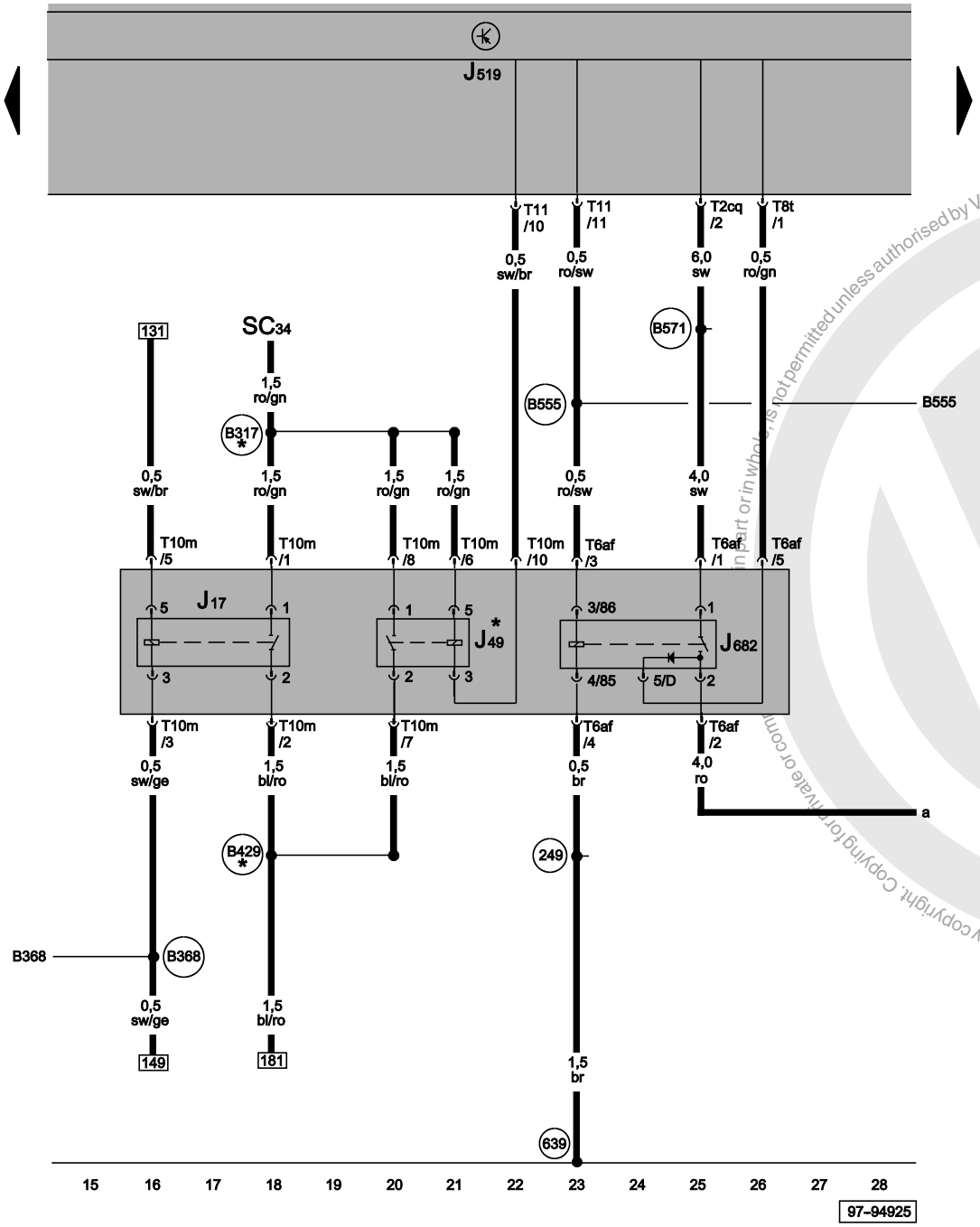


Terminal 30 voltage supply relay

J317	Terminal 30 voltage supply relay
J514	Electronic manual gearbox control unit
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB6	Fuse 6 on fuse holder B
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB28	Fuse 28 on fuse holder B
T16g	16-pin connector, black
T20a	20-pin connector
T40	40-pin connector, under E-box, in engine compartment
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
B333	Connection 19 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
*	Only models with dual clutch gearbox
**	From November 2005
***	To November 2005
****	Discontinued in models with 180 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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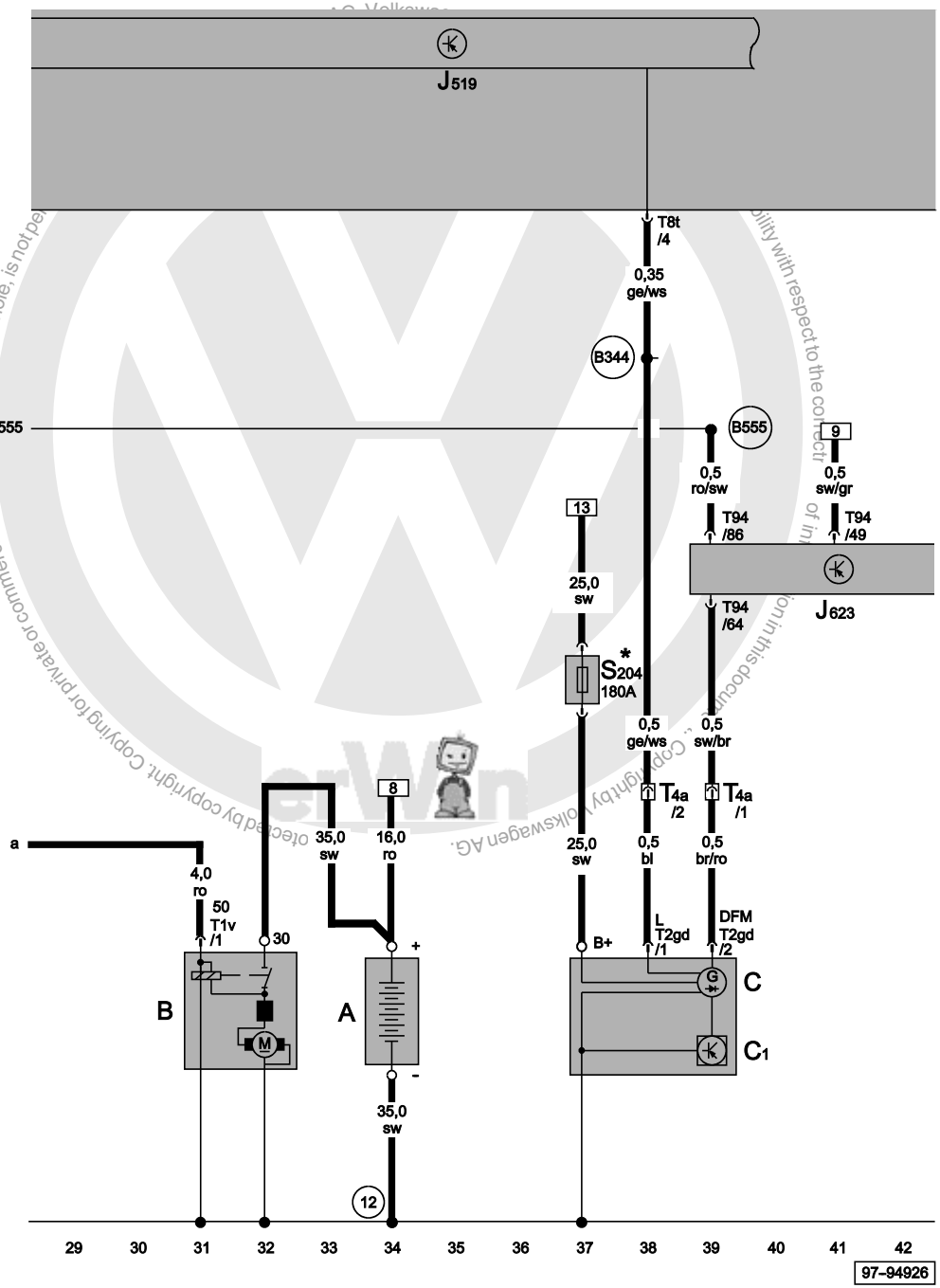


Terminal 50 voltage supply relay, fuel pump relay

J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay
SC34	Fuse 34 on fuse holder C
T2cq	2-pin connector, black
T6af	6-pin connector, on E-box
T8t	8-pin connector, black
T10m	10-pin connector, on E-box
T11	11-pin connector, black
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models with auxiliary heater

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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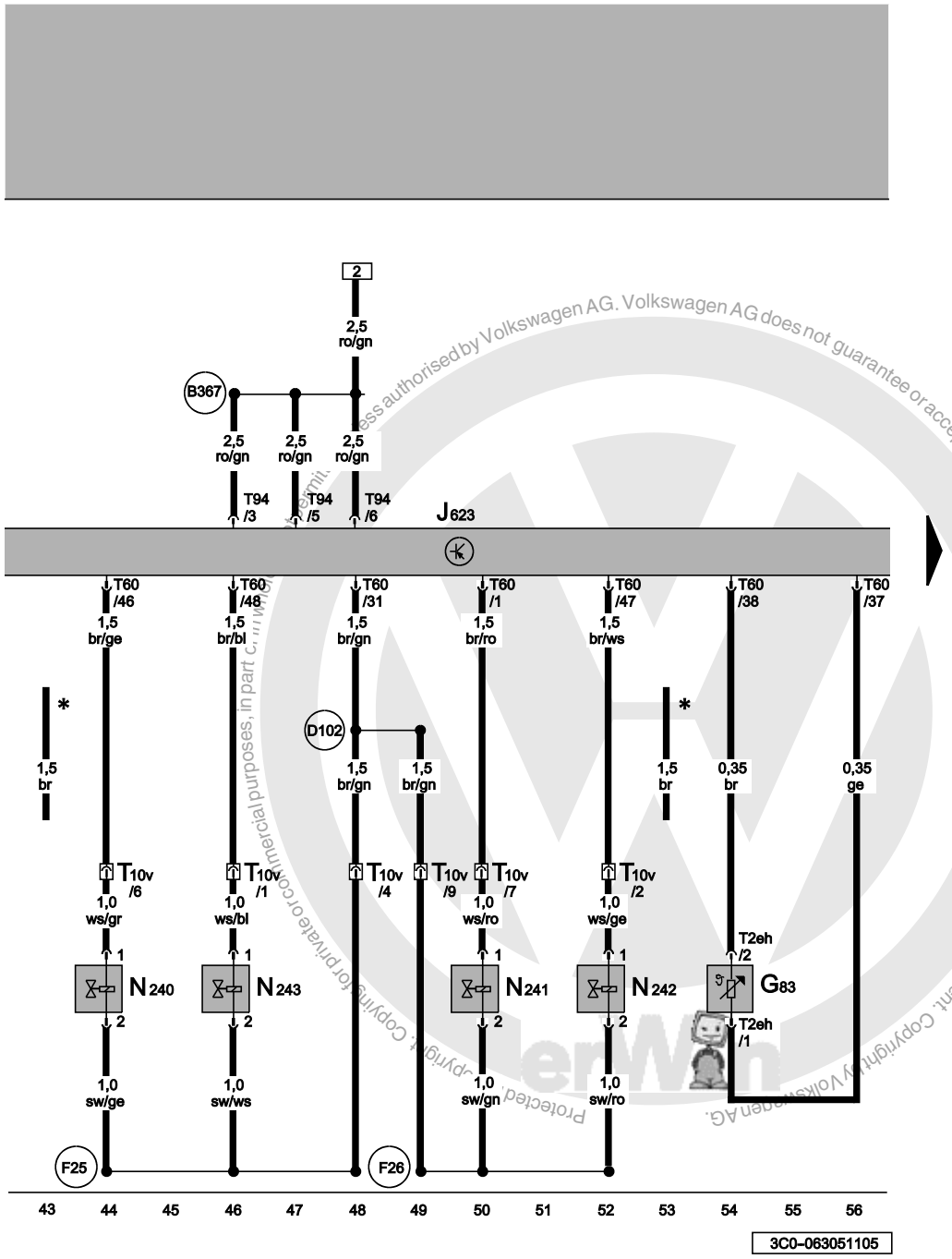


Battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J623	Engine control unit
S204	Fuse 1 (30)
T1v	Single connector
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector, black
T94	94-pin connector
12	Earth point, on left in engine compartment
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
*	Only models with 180 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

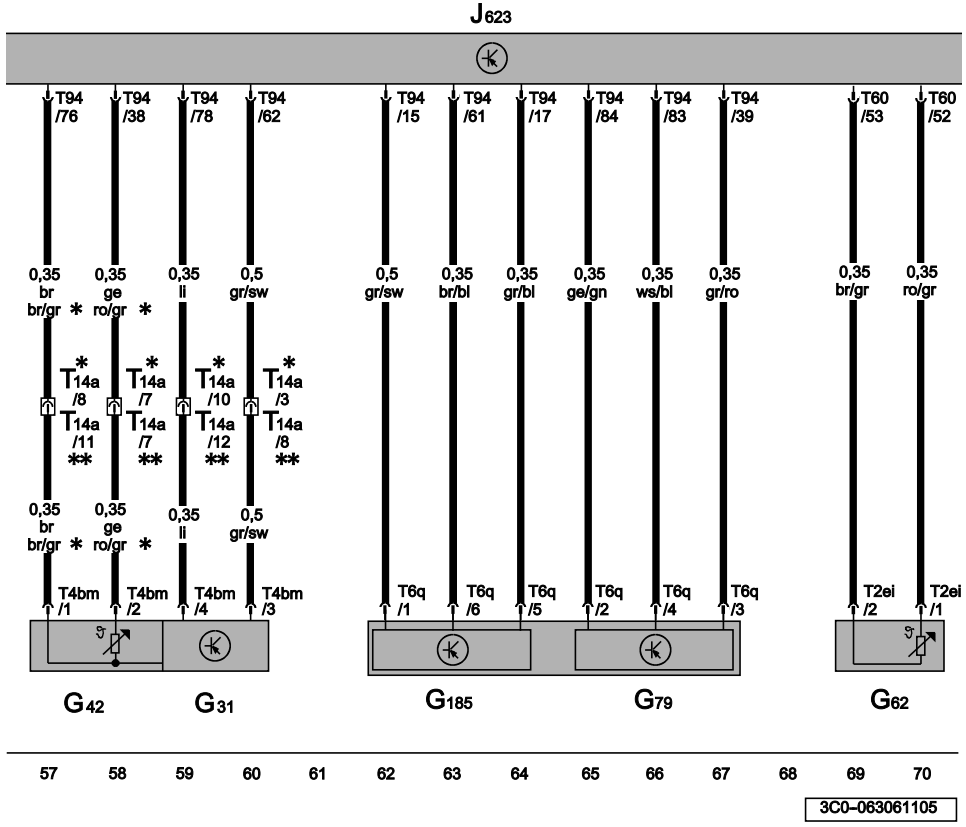
Engine control unit, radiator outlet coolant temperature sender, unit injector valves for cylinders 1-4

G83	Radiator outlet coolant temperature sender
J623	Engine control unit
N240	Unit injector valve of cylinder 1
N241	Unit injector valve of cylinder 2
N242	Unit injector valve of cylinder 3
N243	Unit injector valve of cylinder 4
T2eh	2-pin connector
T10v	10-pin connector, on left of cylinder head
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D102	Connection 2, in engine compartment wiring harness
F25	Connection 1, in diesel direct injection system wiring harness
F26	Connection 2, in diesel direct injection system wiring harness
*	Unassigned wire

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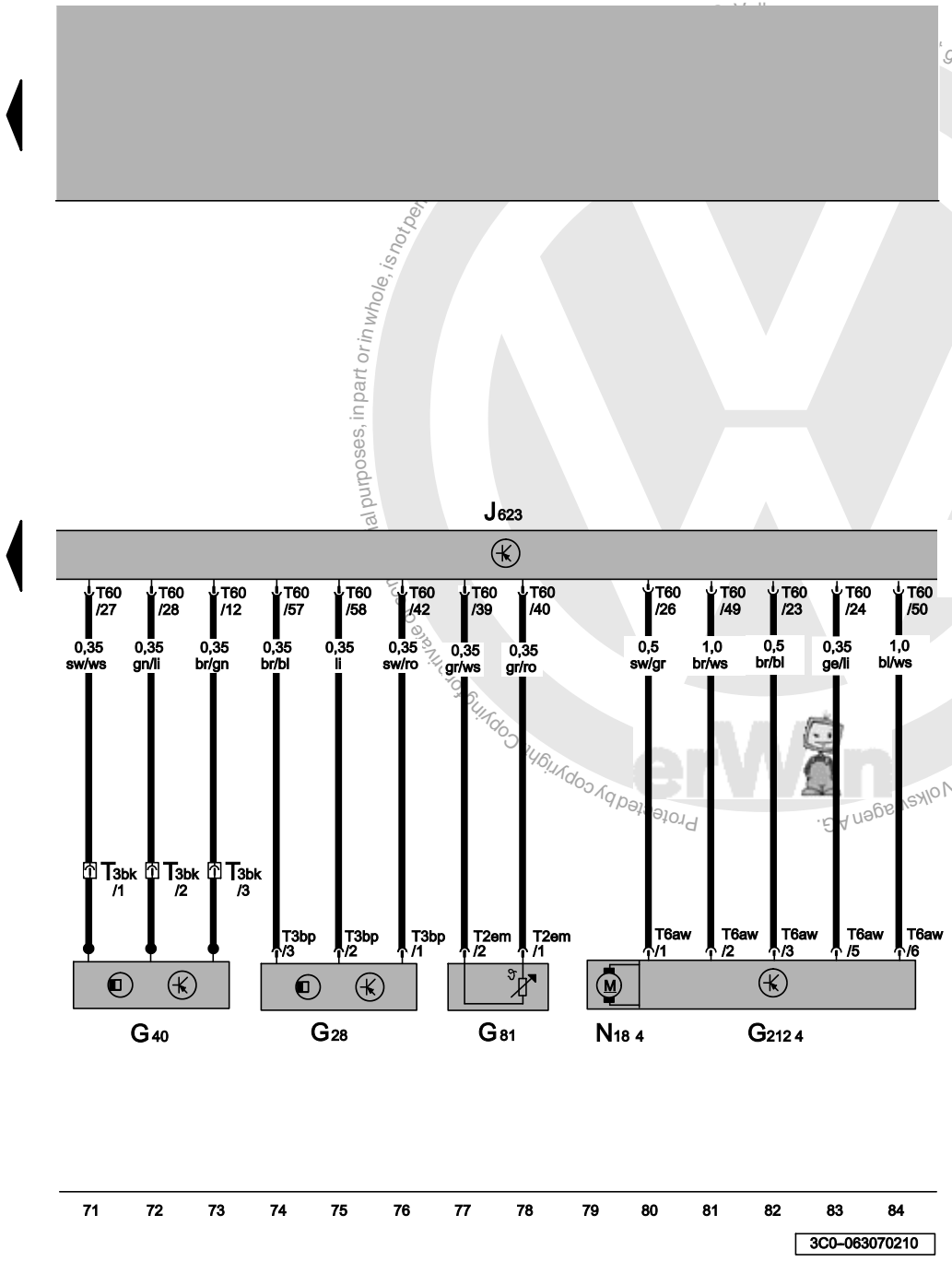
Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender 2, coolant temperature sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T2ei	2-pin connector
T4bm	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
*	From November 2005
**	To November 2005



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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Engine control unit, engine speed sender, Hall sender, fuel temperature sender, exhaust gas recirculation potentiometer, exhaust gas recirculation valve

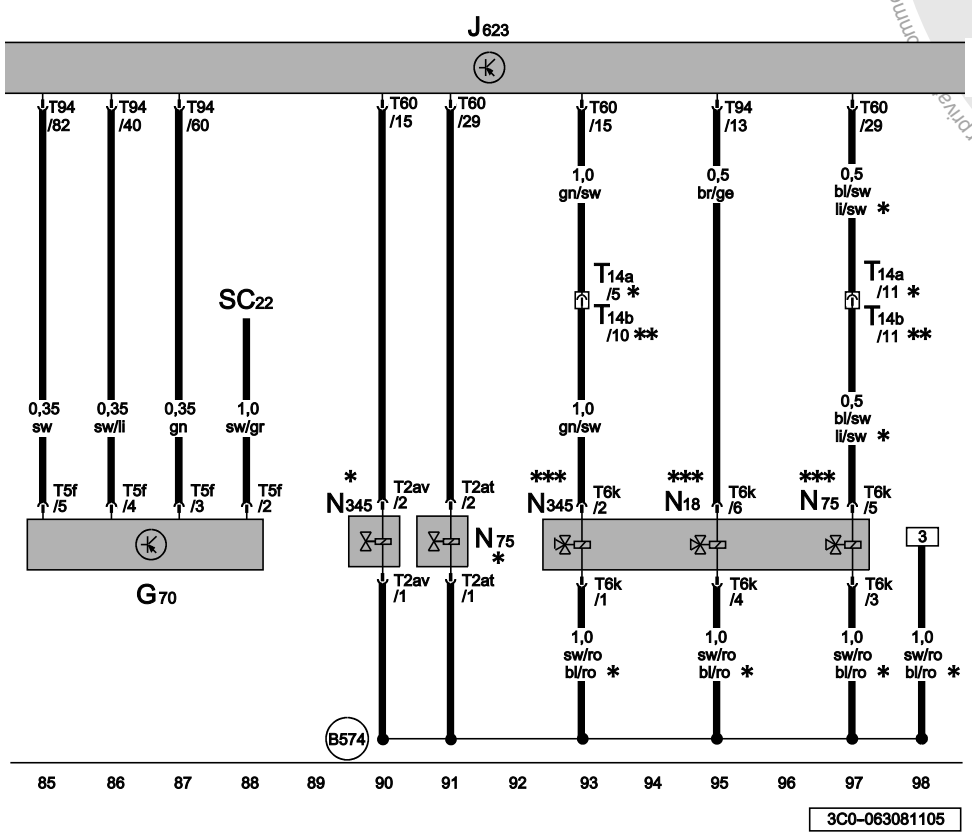
G28	Engine speed sender
G40	Hall sender
G81	Fuel temperature sender
G212	Exhaust gas recirculation potentiometer
J623	Engine control unit
N18	Exhaust gas recirculation valve
T2em	2-pin connector
T3bk	3-pin connector
T3bp	3-pin connector
T6aw	2-pin connector, grey
T60	60-pin connector
*	Applicable from November 2005

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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Engine control unit, air mass meter, charge pressure control solenoid valve, turbocharger air recirculation valve, exhaust gas recirculation cooler changeover valve

G70	Air mass meter
J623	Engine control unit
N75	Charge pressure control solenoid valve
N249	Turbocharger air recirculation valve
N345	Exhaust gas recirculation cooler changeover valve
SC22	Fuse 22 on fuse holder C
T2at	2-pin connector
T2av	2-pin connector
T5f	5-pin connector
T6k	6-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T14b	14-pin connector, coupling point 2 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness
*	From November 2005
**	To November 2005
***	To May 2006

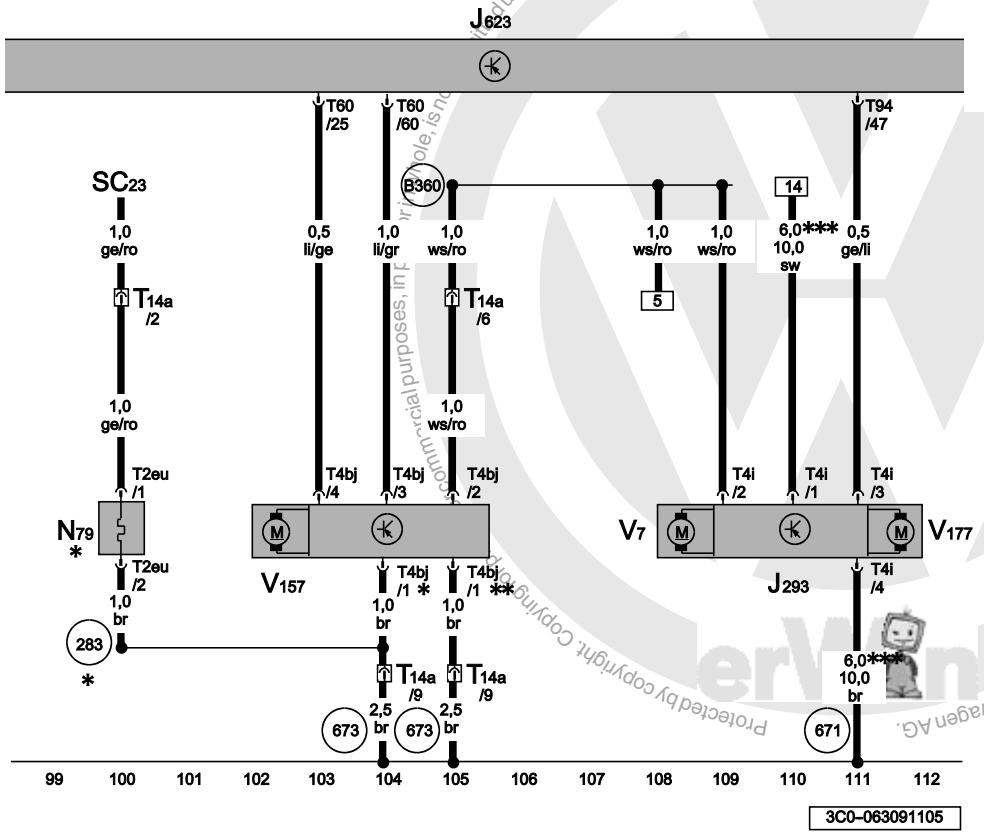


ws	=	white
sw	=	black
ro	=	red
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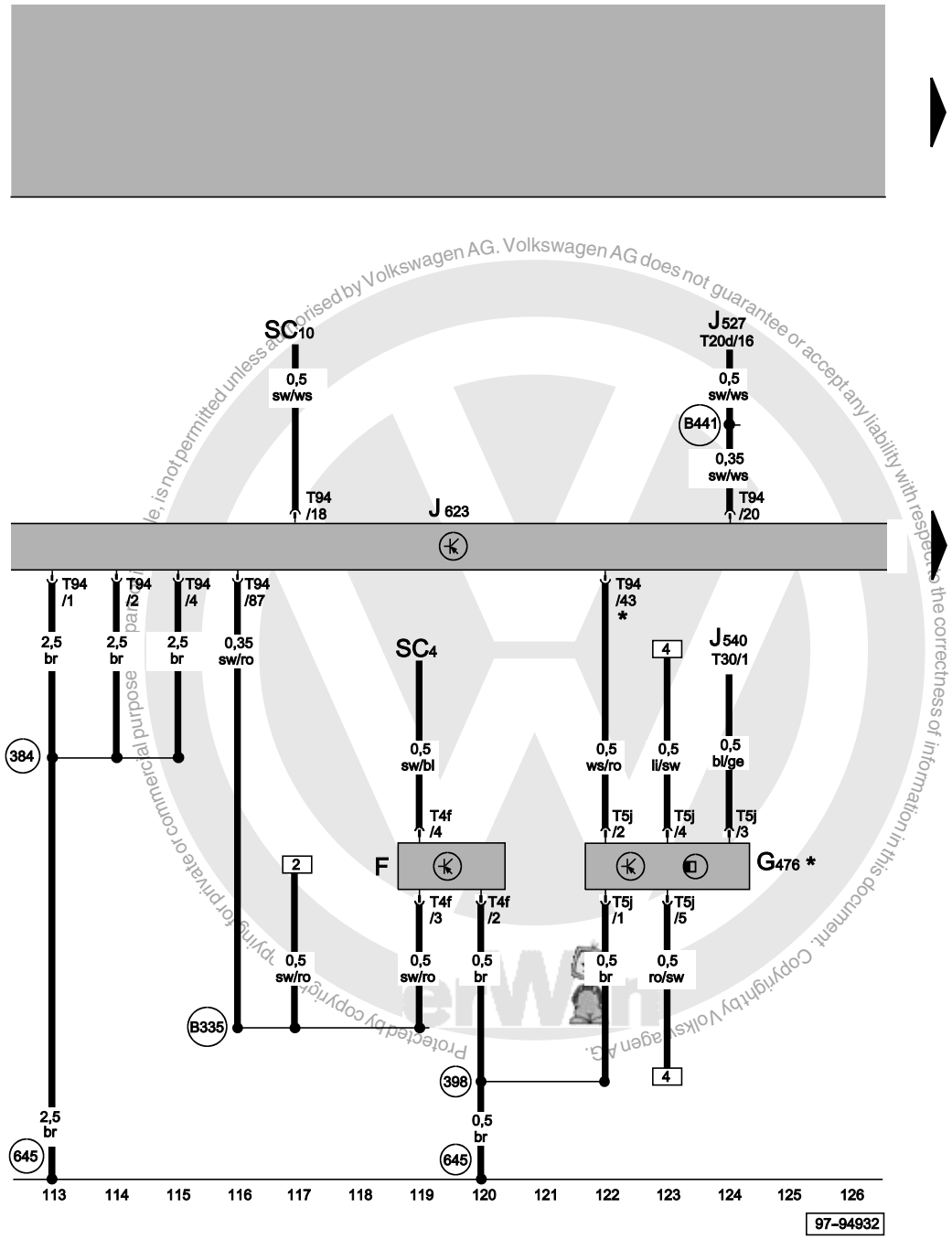
Engine control unit, crankcase breather heater element, radiator fan, intake manifold flap motor

J293	Radiator fan control unit
J623	Engine control unit
N79	Crankcase breather heater element
SC23	Fuse 23 on fuse holder C
T2eu	2-pin connector
T4bj	4-pin connector
T4i	4-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V157	Intake manifold flap motor
V177	Radiator fan 2
283	Earth point 2, engine prewiring harness
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B360	Connection 11 (87a), in main wiring harness
*	Only models for cold countries
**	Only models for warm countries
***	From November 2005



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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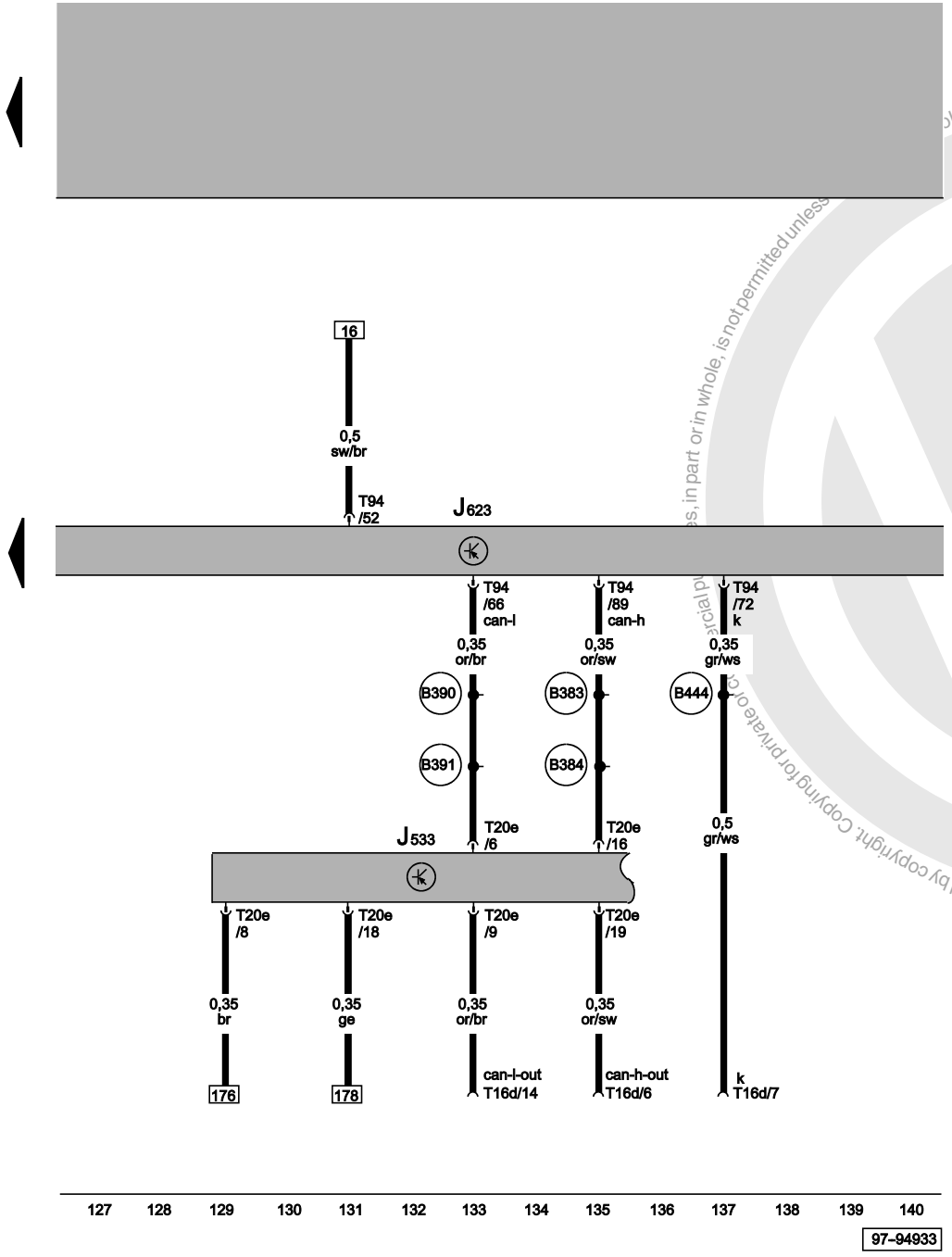


Engine control unit, brake light switch, clutch position sender

F	Brake light switch
G476	Clutch position sender
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
T4f	4-pin connector
T5j	5-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
384	Earth connection 19, in main wiring harness
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with manual gearbox

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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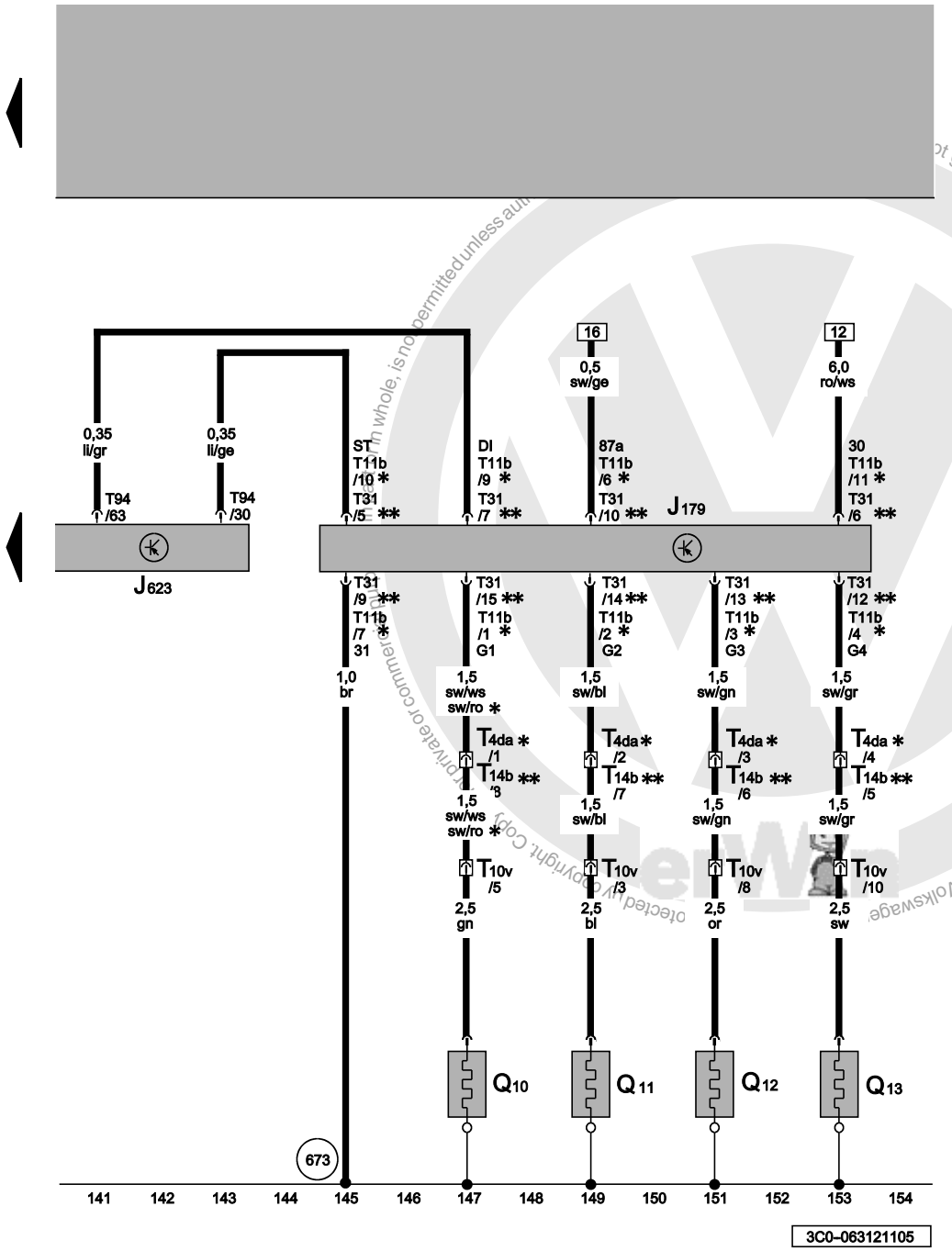


Engine control unit, data bus diagnosis interface, self-diagnosis connection

J533	Data bus diagnosis interface
J623	Engine control unit
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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Engine control unit, automatic glow period control unit, engine control unit, glow plugs 1-4

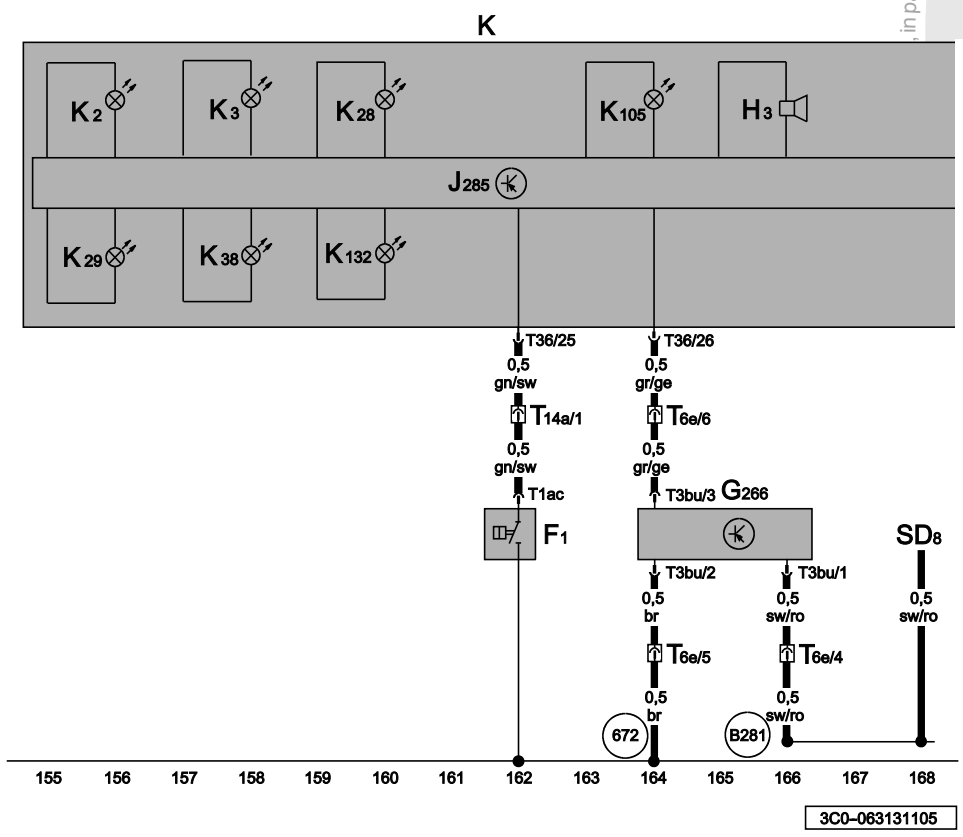
J179	Automatic glow period control unit
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T4da	4-pin connector, black
T10v	10-pin connector, on left of cylinder head
T11b	11-pin connector
T14b	14-pin connector, coupling point 2 on left in engine compartment
T31	31-pin connector
T94	94-pin connector
673	Earth point 3, on front of left longitudinal member
*	From November 2005
**	To November 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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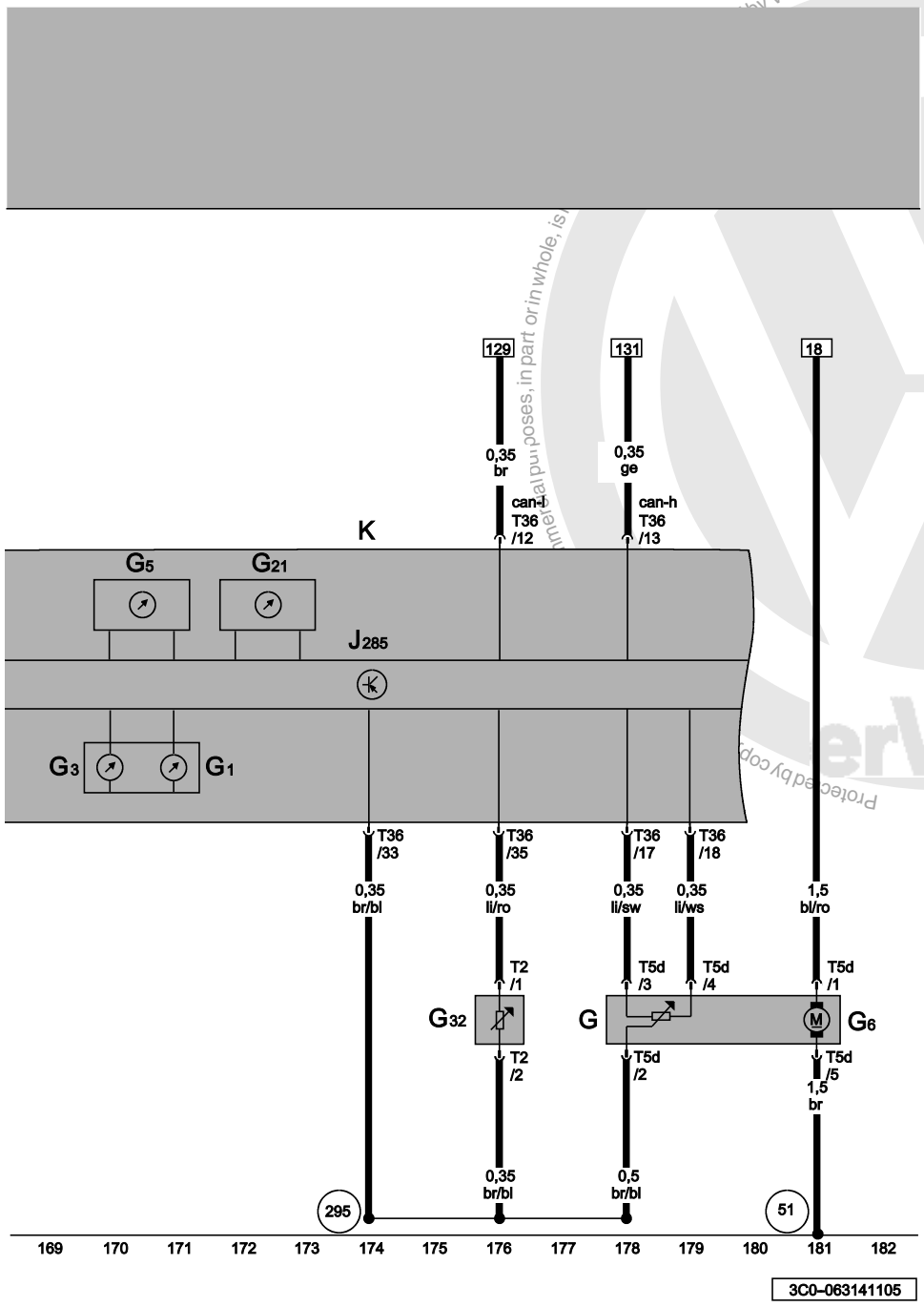
Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, coupling point for electric steering in engine compartment
T14a	14-pin connector, coupling point 1 on left in engine compartment
T36	36-pin connector
(672)	Earth point 2, on front of left longitudinal member
(B281)	Connection 5 (15a), in main wiring harness



ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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gr	=	grey
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Dash panel insert, rev counter, speedometer, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature display
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
K	Dash panel insert
T2	2-pin connector
T5d	5-pin connector
T36	36-pin connector
(51)	Earth point, on right in luggage compartment
(295)	Earth connection 10, in interior wiring harness

ws	=	white
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ro	=	red
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gn	=	green
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Driving school equipment

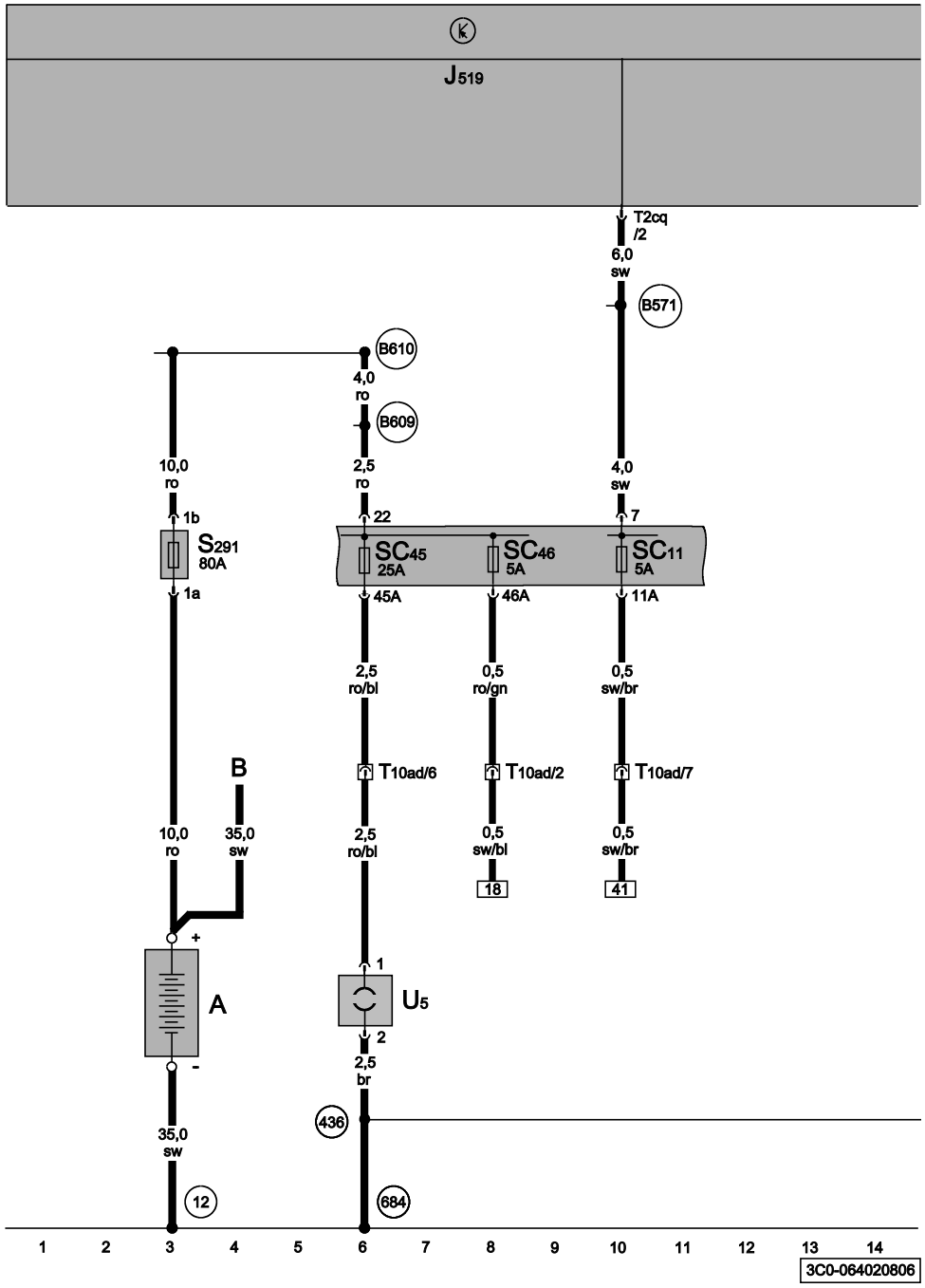
⇒ **models with manual gearbox**
⇒ **with special vehicle control unit**
from September 2006

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth points

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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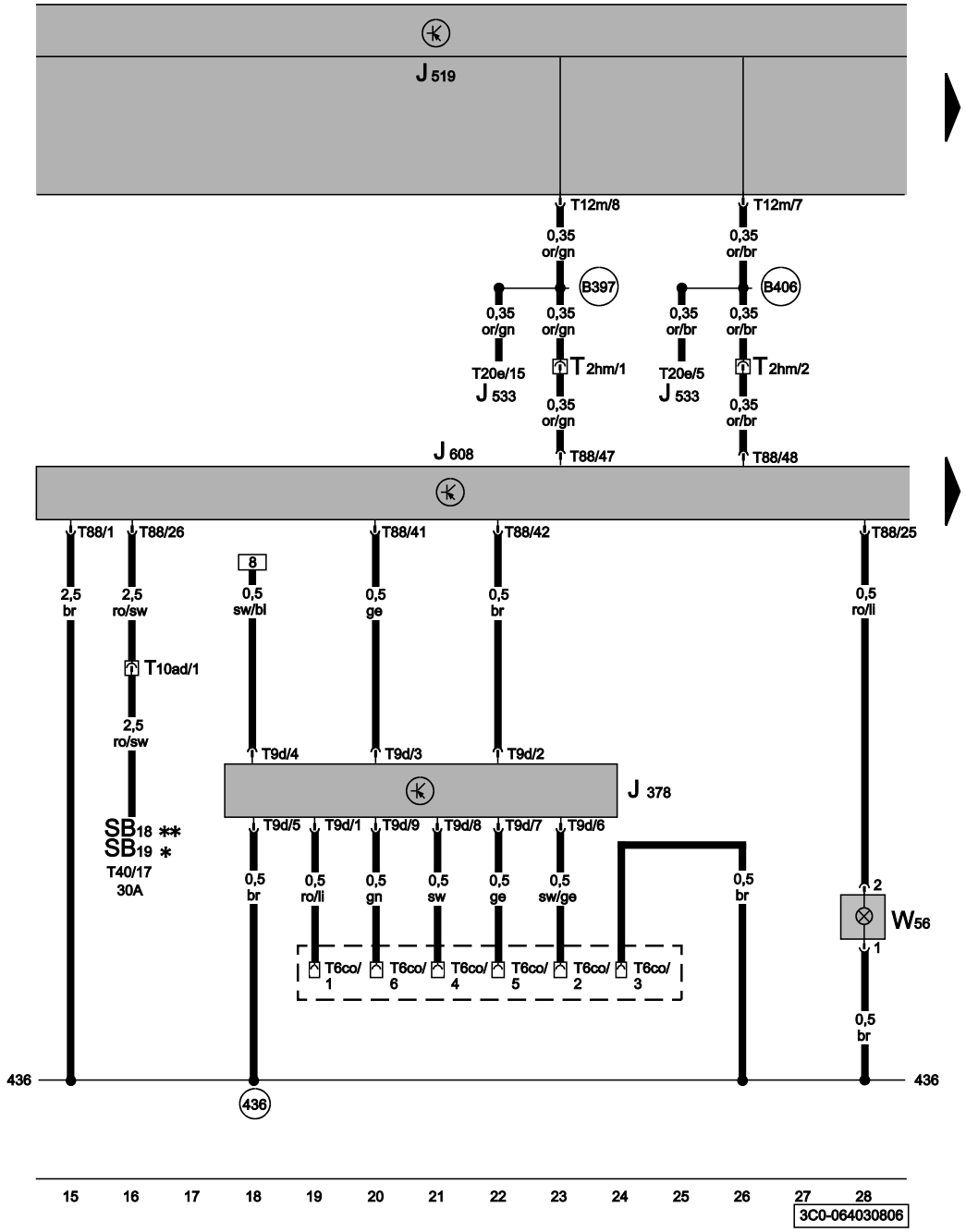


12 V socket, onboard supply control unit, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
S291	Special vehicle fuse 1
SC11	Fuse 11 on fuse holder C
SC45	Fuse 45 on fuse holder C
SC46	Fuse 46 on fuse holder C
T2cq	2-pin connector
T10ad	10-pin connector
U5	12 V socket
12	Earth point, on left in engine compartment
436	Earth connection 1 in driving school wiring harness
684	Earth point, on front of left longitudinal member
B571	Connection 38, in main wiring harness
B609	Connection 5, in interior wiring harness
B610	Connection 6, in interior wiring harness

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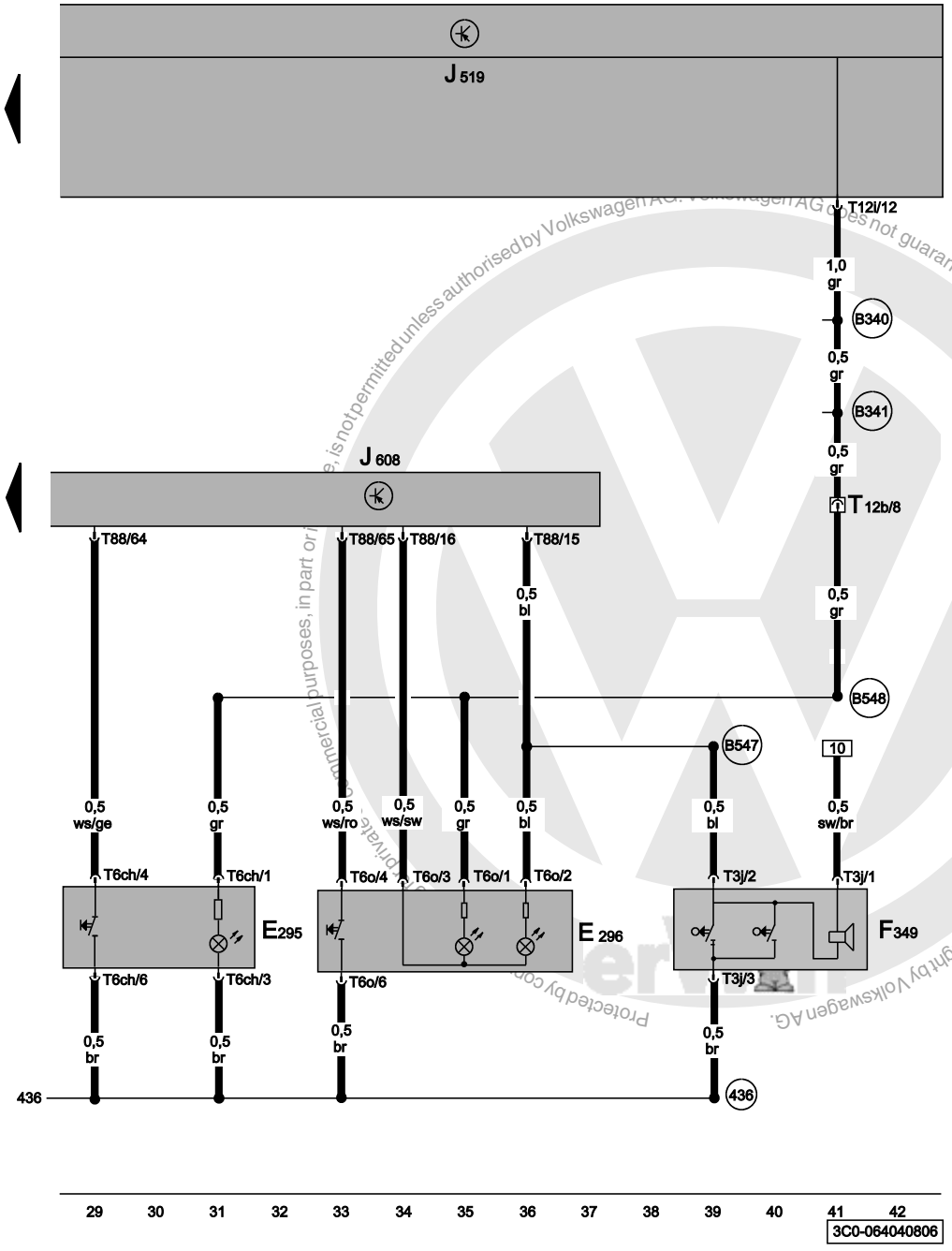


Special vehicle control unit, pocket PC (PDA), driving school vehicle footwell illumination

J378	PDA control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J608	Special vehicle control unit
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T2hm	2-pin connector
T6co	6-pin connector, coupling point PDA-interface
T9d	9-pin connector
T10ad	10-pin connector
T12m	12-pin connector
T20e	20-pin connector
T40	40-pin connector
T88	88-pin connector
W56	Driving school vehicle footwell illumination
436	Earth connection 1 in driving school wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	models with electronics box low only
**	for models with electronics box high only

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sw	=	black
ro	=	red
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Special vehicle control unit, warning buzzer switch, warning buzzer for pedal switch on front passenger side

E295	Footwell light switch
E296	Warning buzzer switch
F349	Warning buzzer for pedal switch on front passenger side
J519	Onboard supply control unit
J608	Special vehicle control unit
T3j	3-pin connector
T6o	6-pin connector
T6ch	6-pin connector
T12b	12-pin connector
T12i	12-pin connector
T88	88-pin connector
436	Earth connection 1 in driving school wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B547	Connection 1, in driving school vehicle wiring harness
B548	Connection (58), in driving school vehicle wiring harness

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1.6 l/75 kW Motronic, engine code BSE, BSF

from November 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

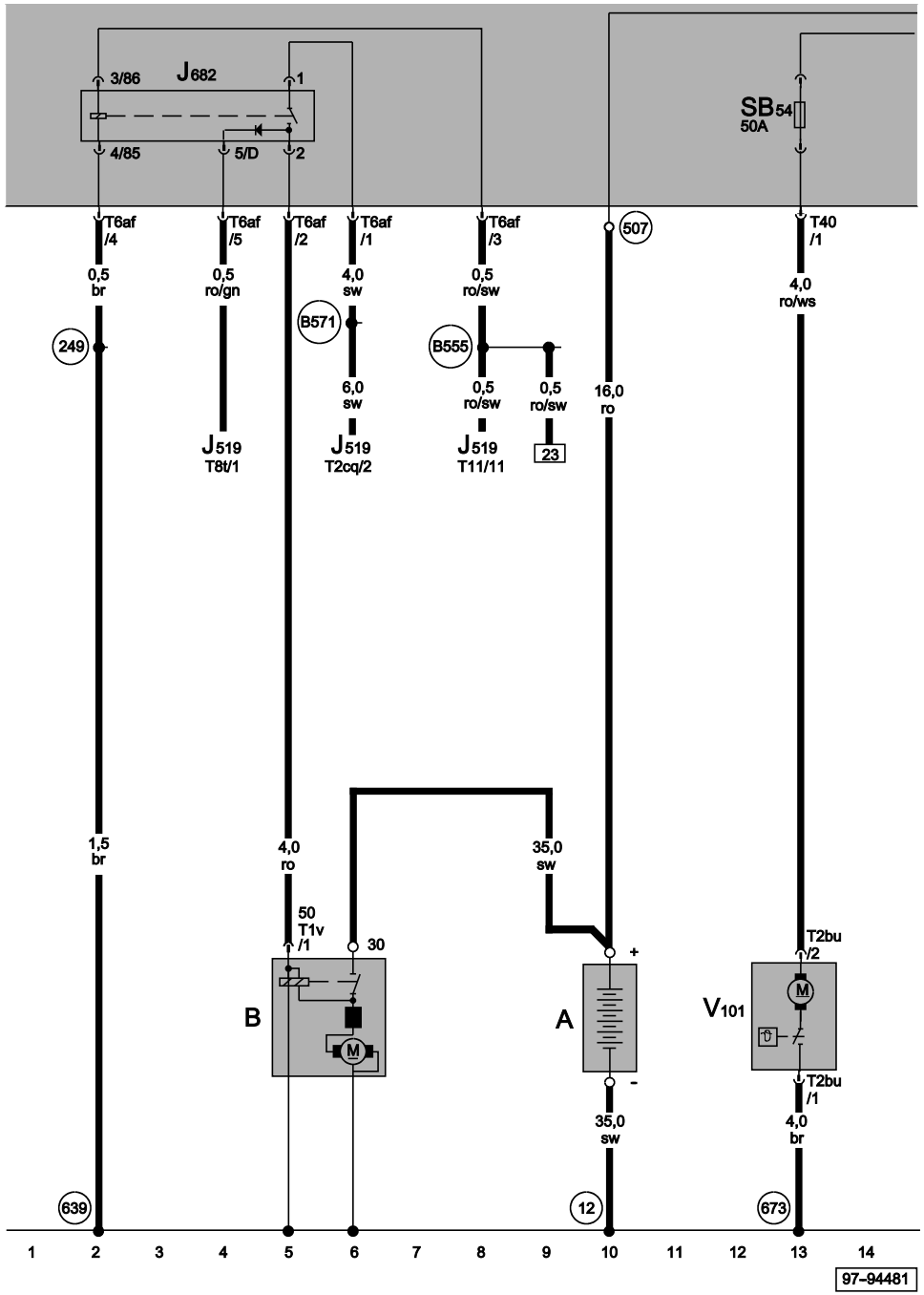
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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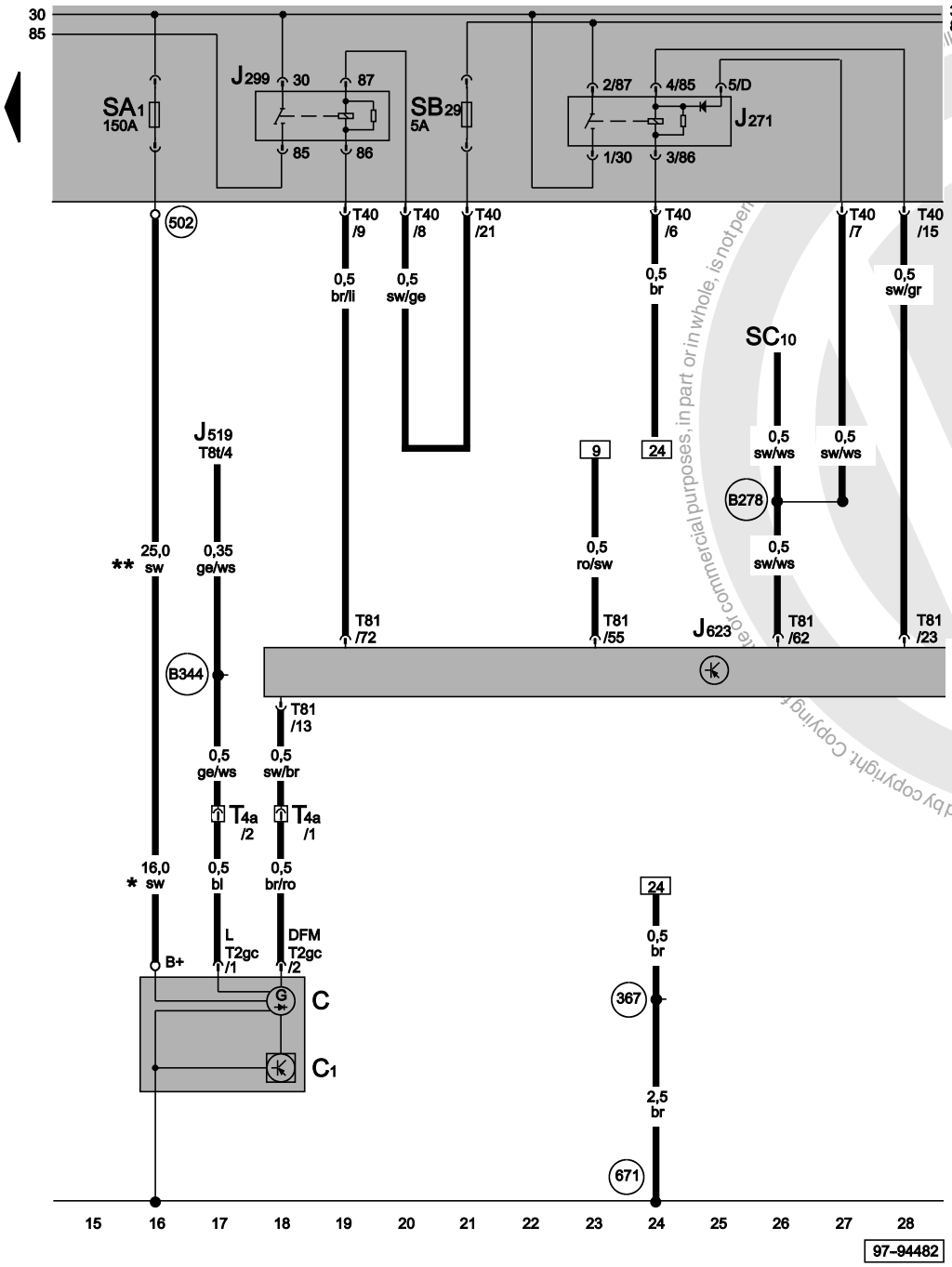
Terminal 50 voltage supply relay, battery, starter, secondary air pump motor

A	Battery
B	Starter
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay
SB54	Fuse 54 on fuse holder B
T1v	Single connector
T2bu	2-pin connector
T2cq	2-pin connector
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
T40	40-pin connector, under electronics box, in engine compartment
V101	Secondary air pump motor

12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
507	Screw connection (30), on fuse holder on battery
639	Earth point, left A-pillar
673	Earth point 3, on front of left longitudinal member
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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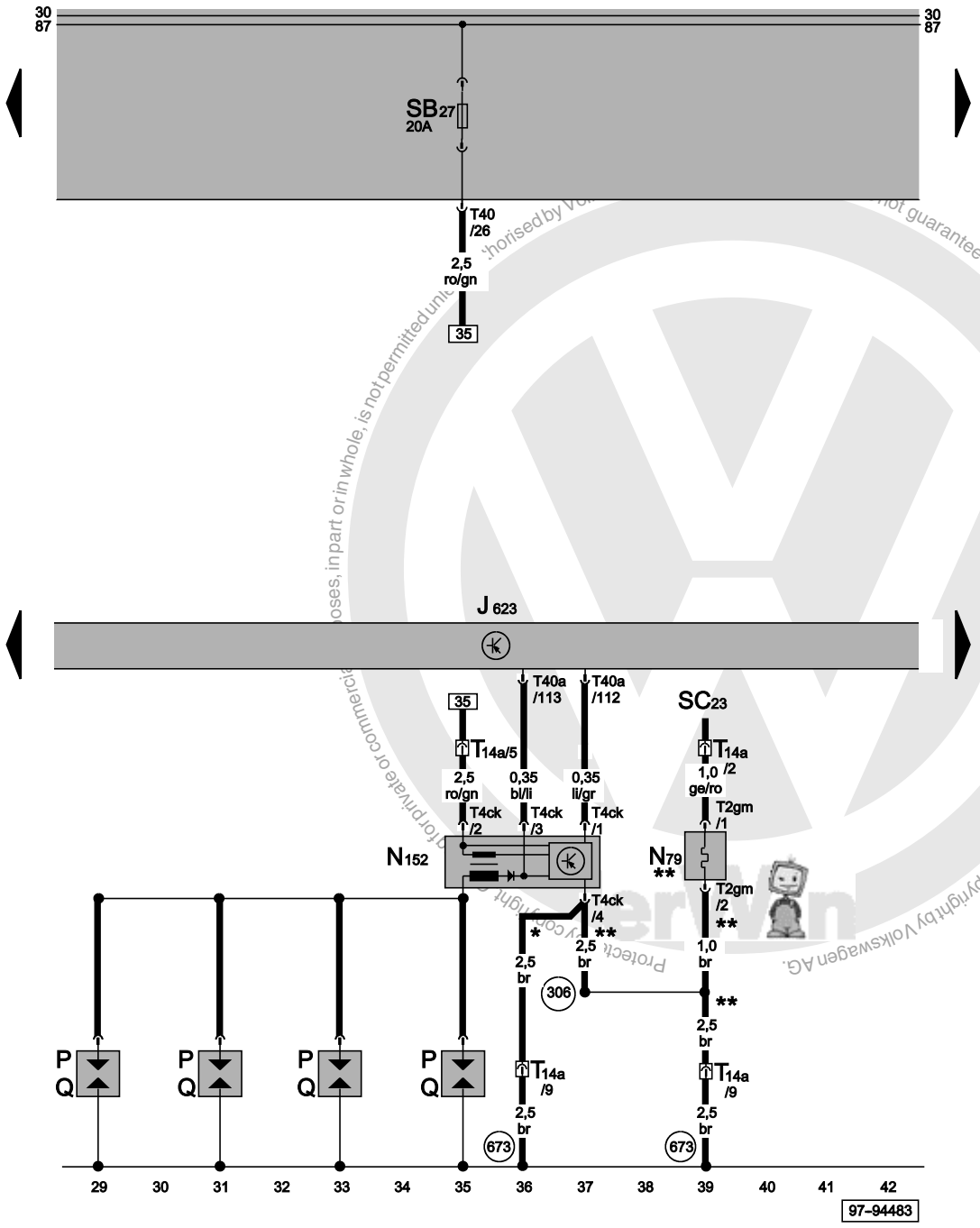


Motronic current supply relay, engine control unit, secondary air pump relay, voltage regulator, alternator

C	Alternator
C1	Voltage regulator
J299	Secondary air pump relay
J271	Motronic current supply relay
J519	Onboard supply control unit
J623	Engine control unit
SA1	Fuse 1 on fuse holder A
SB29	Fuse 29 on fuse holder B
SC10	Fuse 10 on fuse holder C
T2gc	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector, black
T40	40-pin connector, under electronics box, in engine compartment
T81	81-pin connector
367	Earth connection 2, in main wiring harness
502	Screw connection 1 (30a), on relay plate
671	Earth point 1, on front of left longitudinal member
B278	Positive connection 2 (15a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	only models with 110 A alternator
**	only models with 140 A alternator

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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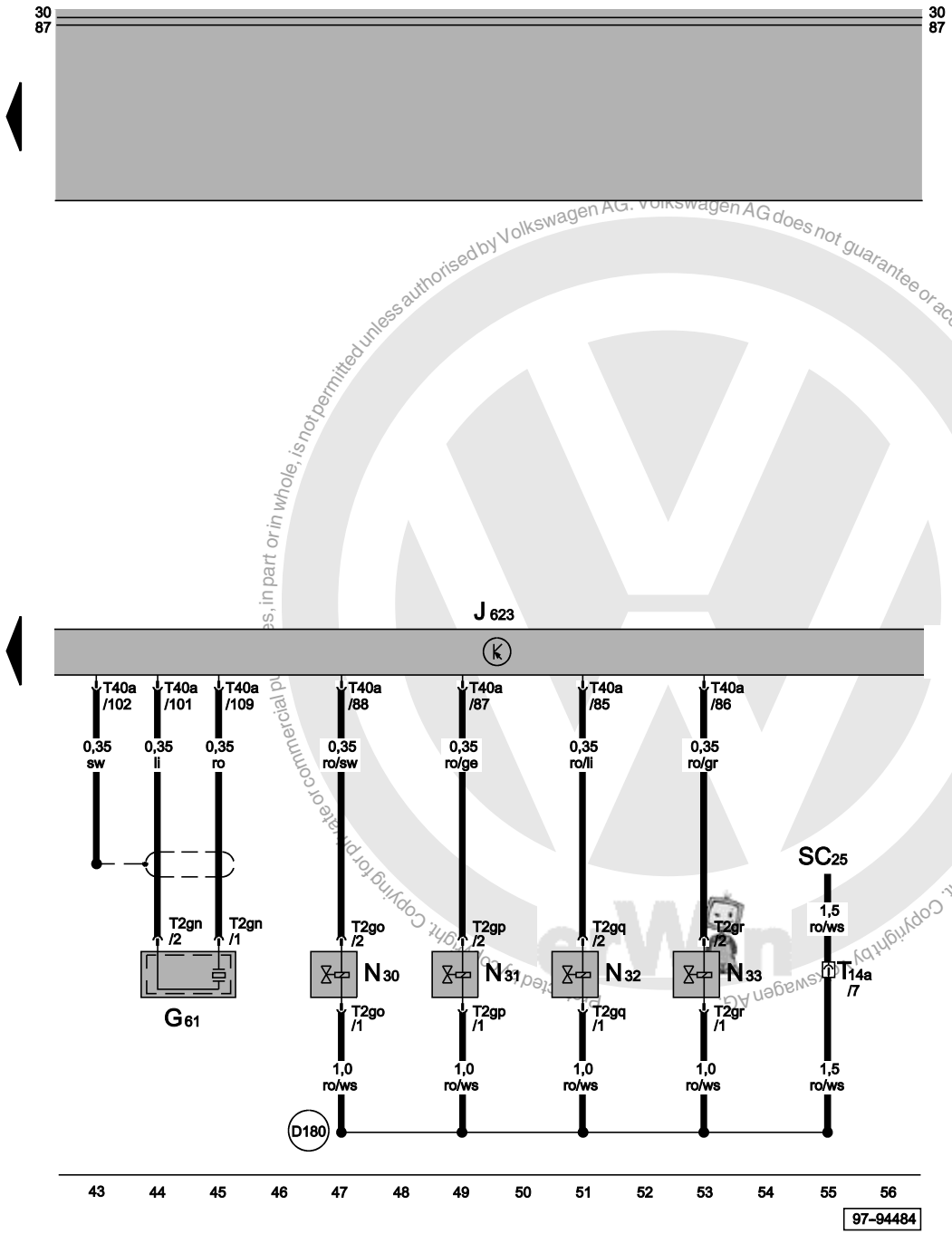


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sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, ignition transformer, spark plug, spark plug connector, heater element for crankcase breather

J623	Engine control unit
N79	Heater element for crankcase breather
N152	Ignition transformer
P	Spark plug connector
Q	Spark plugs
SB27	Fuse 27 on fuse holder B
SC23	Fuse 23 on fuse holder C
T2gm	2-pin connector
T4ck	4-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T81	81-pin connector
(306)	Earth connection (ignition coils), in engine harness
(673)	Earth point 3, on front of left longitudinal member
*	models for warm countries only
**	models for cold countries only

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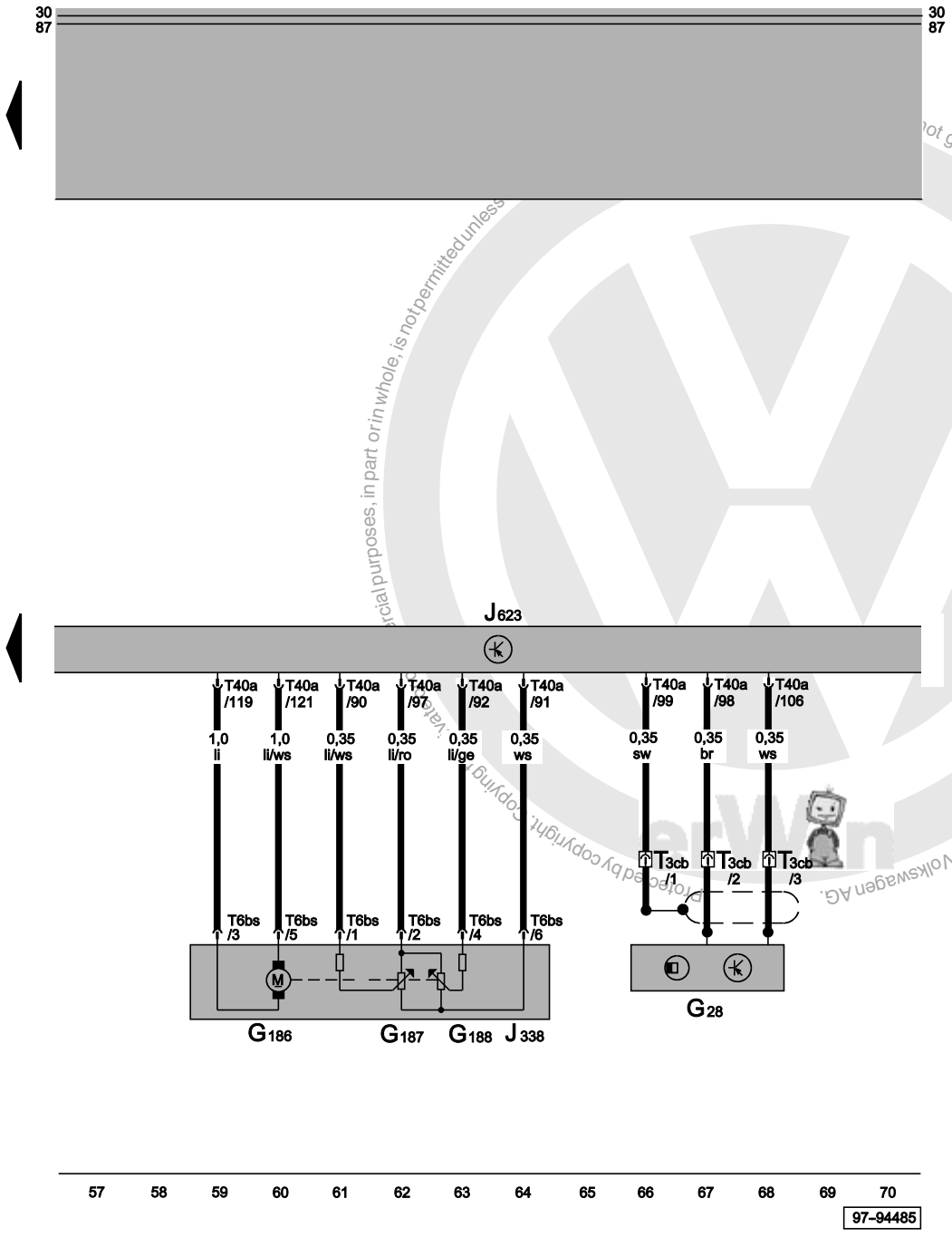


Engine control unit, knock sensor 1, injectors for cylinders 1 to 4

G61	Knock sensor 1
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
SC25	Fuse 25 on fuse holder C
T2gn	2-pin connector
T2go	2-pin connector
T2gp	2-pin connector
T2gq	2-pin connector
T2gr	2-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40a	40-pin connector
(D180)	Connection (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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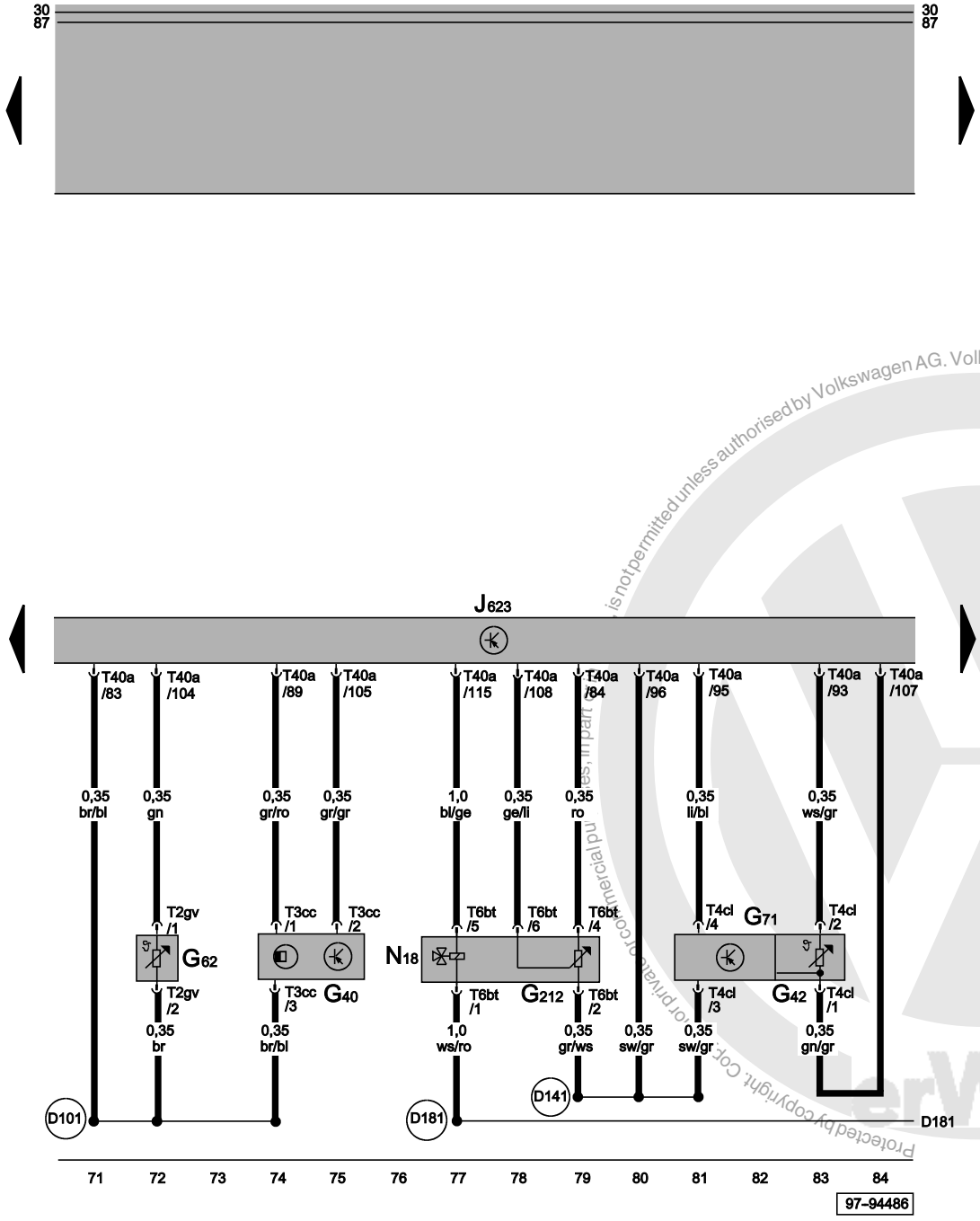


Engine control unit, throttle valve module, engine speed sender

G28	Engine speed sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J623	Engine control unit
T3cb	3-pin connector
T6bs	6-pin connector
T40a	40-pin connector

ws	=	white
sw	=	black
ro	=	red
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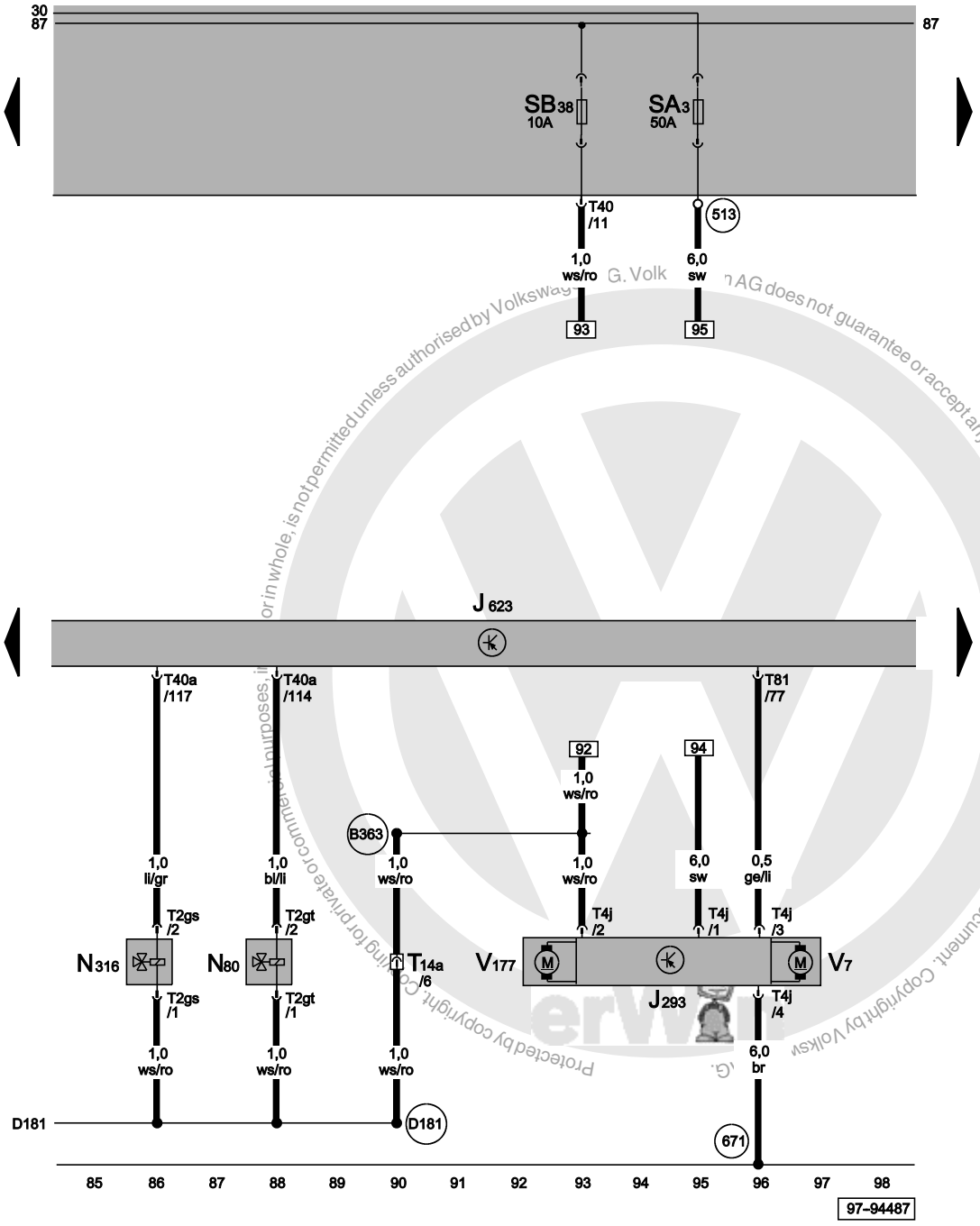


Engine control unit, exhaust gas recirculation potentiometer, hall sender, intake manifold pressure sender

G40	Hall sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G71	Intake manifold pressure sender
G212	Exhaust gas recirculation potentiometer
J623	Engine control unit
N18	Exhaust gas recirculation valve
T2gv	2-pin connector
T3cc	3-pin connector
T4cl	4-pin connector
T6bt	6-pin connector
T40a	40-pin connector
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness
D181	Connection 2 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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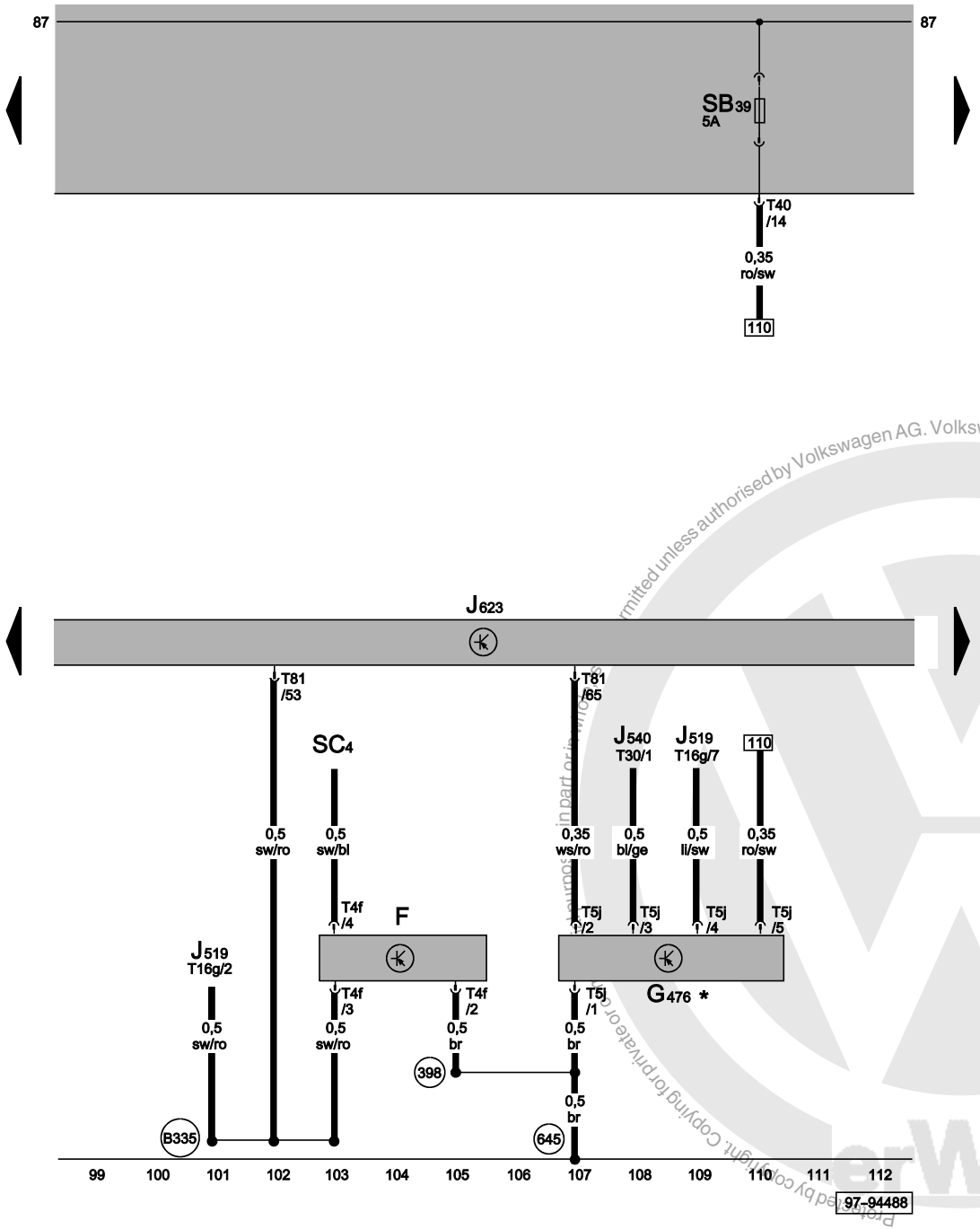


Engine control unit, radiator fan control unit, activated charcoal filter system solenoid valve 1, intake manifold flap valve

J293	Radiator fan control unit
J623	Engine control unit
N80	Activated charcoal filter system solenoid valve 1
N316	Intake manifold flap valve
SA3	Fuse 3 on fuse holder A
SB38	Fuse 38 on fuse holder B
T2gs	2-pin connector
T2gt	2-pin connector
T4j	4-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40	40-pin connector, under electronics box, in engine compartment
T40a	40-pin connector
T81	81-pin connector
V7	Radiator fan
V177	Radiator fan 2
513	Screw connection 3 (30a), on relay plate
671	Earth point 1, on front of left longitudinal member
B363	Positive connection 14 (87a), in main wiring harness
D181	Connection 2 (87a), in engine compartment wiring harness

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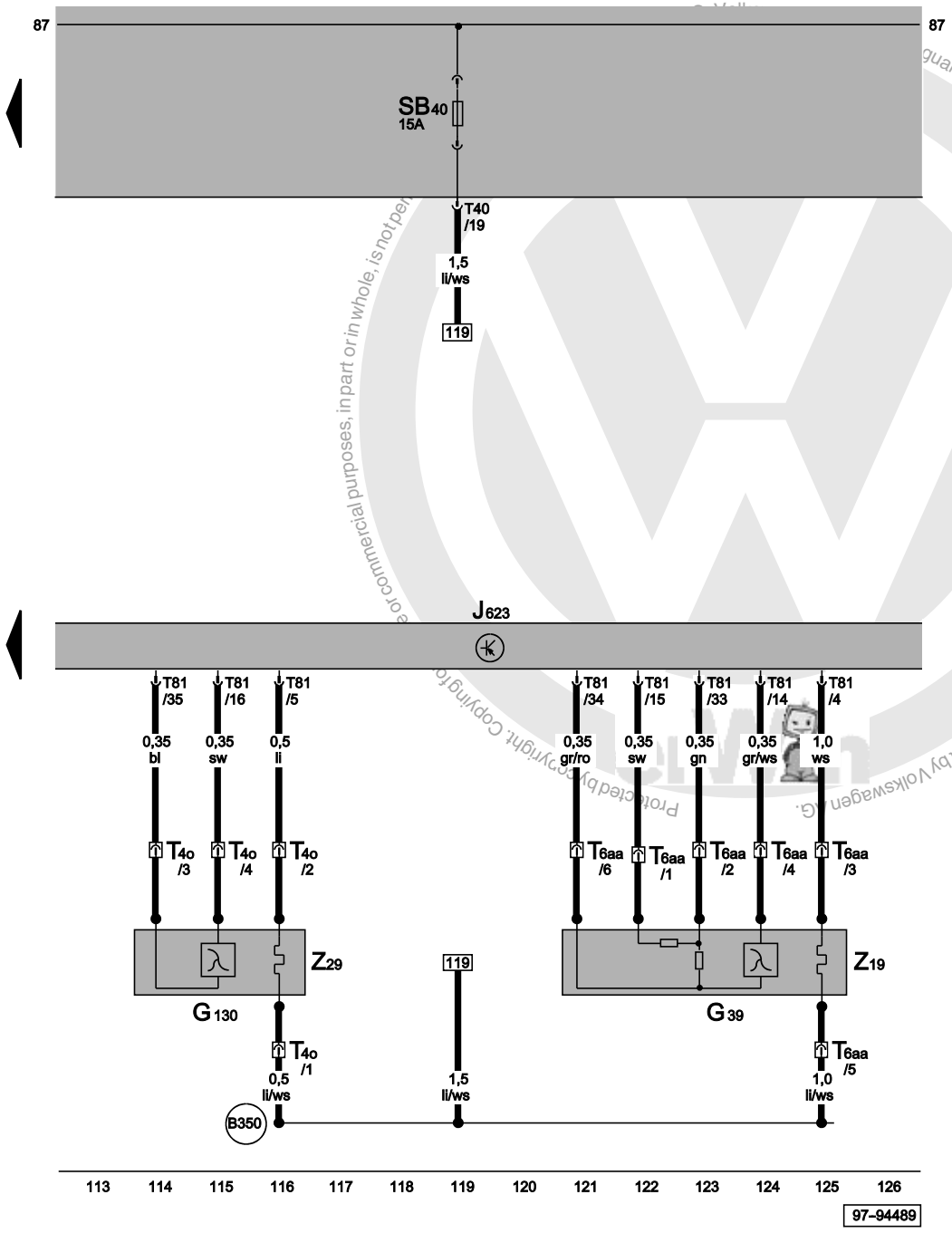


Engine control unit, Brake light switchbrake light switch, clutch position sender

F	Brake light switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Electric park and handbrake control unit
J623	Engine control unit
SB39	Fuse 39 on fuse holder B
SC4	Fuse 4 on fuse holder C
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector, black
T30	30-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T81	81-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
*	models with manual gearbox

ws	=	white
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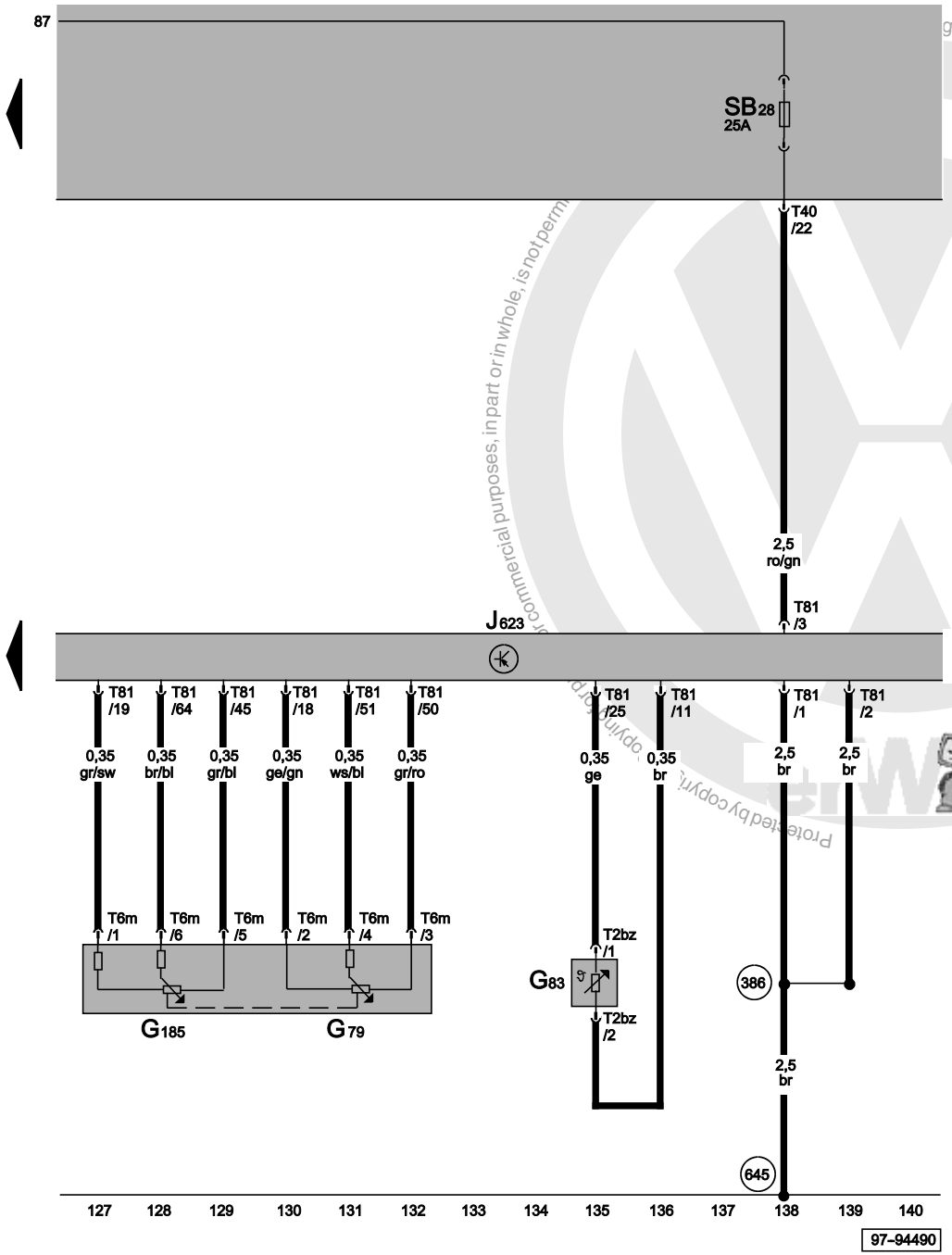


Engine control unit, lambda probe, lambda probe heater

G39	Lambda probe
G130	Lambda probe after catalytic converter
J623	Engine control unit
SB40	Fuse 40 on fuse holder B
T4o	4-pin connector, black, coupling point lambda probe
T6aa	6-pin connector, black, coupling point lambda probe
T40	40-pin connector, under electronics box, in engine compartment
T81	81-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
(B350)	Positive connection 1 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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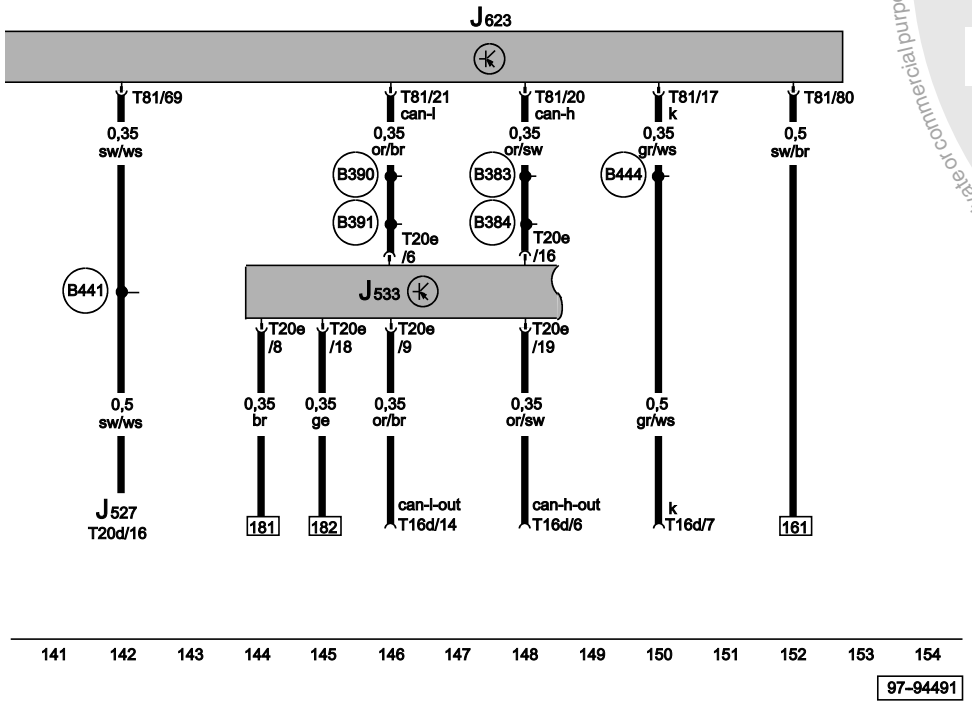
Engine control unit, accelerator position sender, accelerator position sender 2

G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J623	Engine control unit
SB28	Fuse 40 on fuse holder B
T2bz	2-pin connector
T6m	6-pin connector
T40	40-pin connector, under electronics box, in engine compartment
T81	81-pin connector
386	Earth connection 21, in main wiring harness
645	Earth point 1, on bulkhead

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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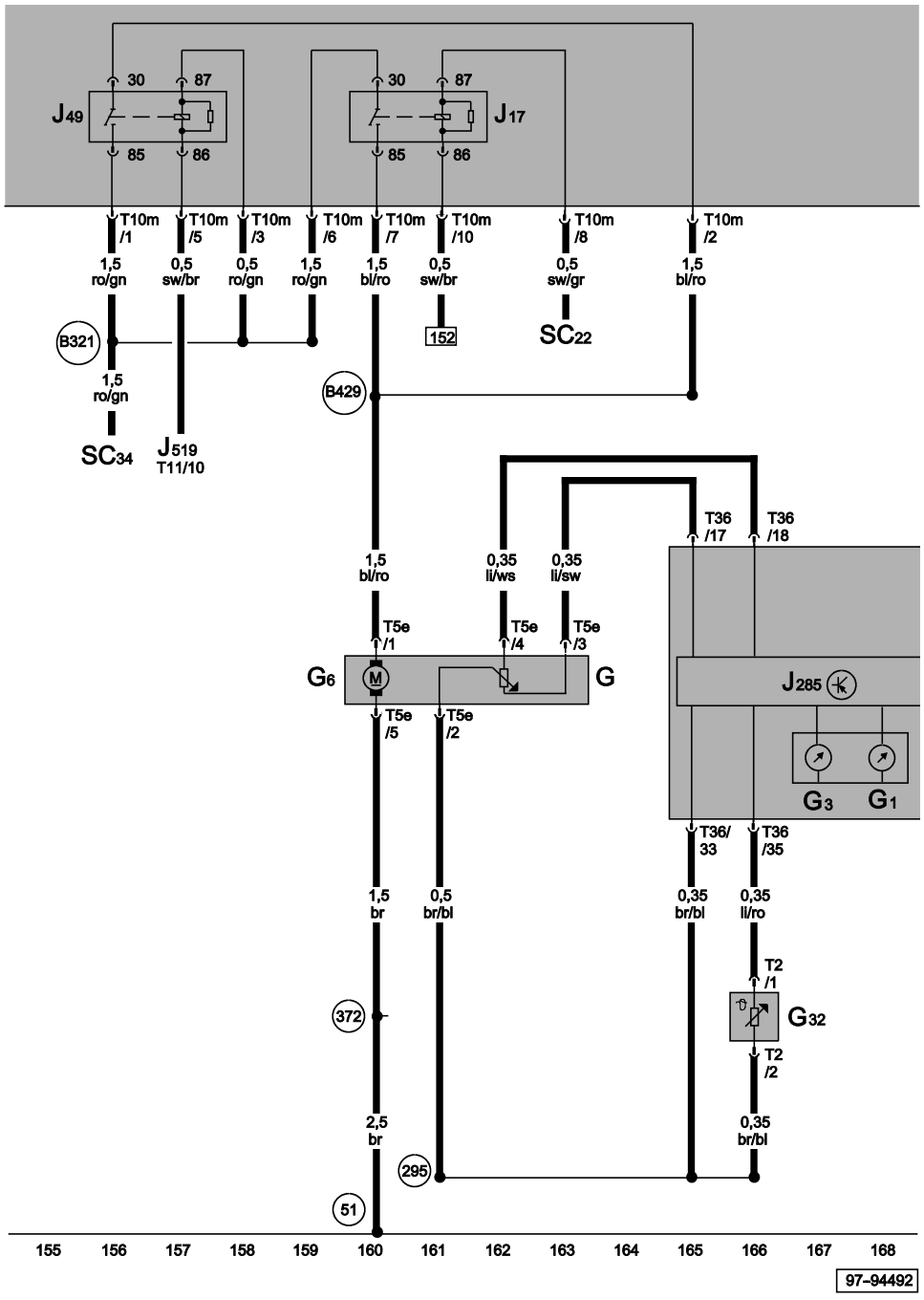


Engine control unit, data bus diagnostic interface, self-diagnosis connection

J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J623	Engine control unit
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T20d	20-pin connector
T81	81-pin connector
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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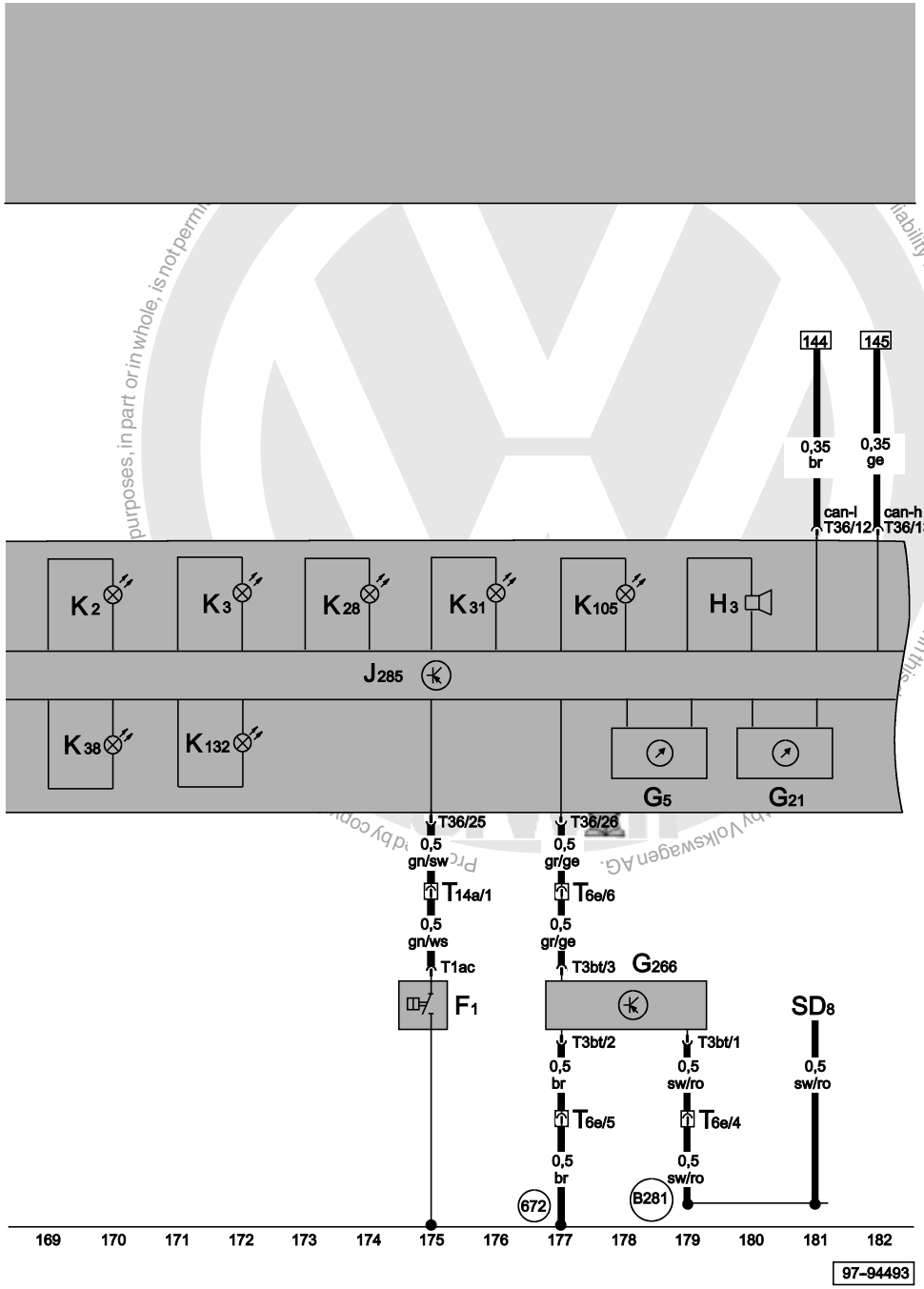


Dash panel insert, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G6	Fuel system pressurisation pump
G32	Coolant shortage indicator sender
J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J285	Control unit in dash panel insert
J519	Onboard supply control unit
SC22	Fuse 22 on fuse holder C
SC34	Fuse 34 on fuse holder C
T2	2-pin connector
T5e	5-pin connector
T10m	10-pin connector
T11	11-pin connector, black
T36	36-pin connector
51	Earth point, on right in luggage compartment
295	Earth connection 10, in interior wiring harness
372	Earth connection 7, in main wiring harness
B321	Positive connection 7 (30a), in main wiring harness
B429	Connection (EFPR), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Dash panel insert, warning lamps, oil pressure switch, buzzer or gong, oil level and oil temperature sender

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
H3	Buzzer or gong
J285	Control unit in dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T3bt	3-pin connector
T6e	6-pin connector, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness

Driving school equipment

⇒ **without special vehicle control unit**

from September 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth points

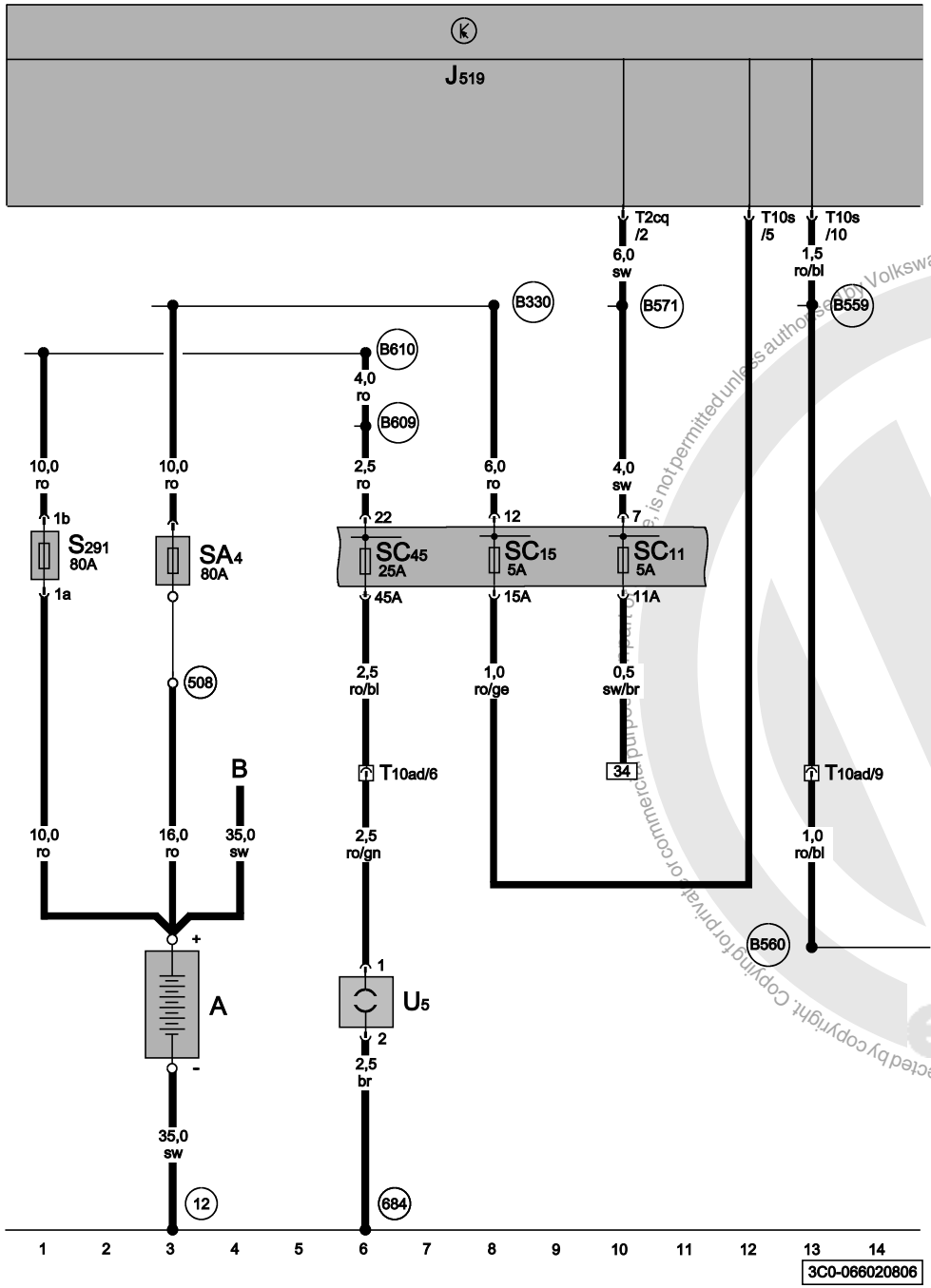
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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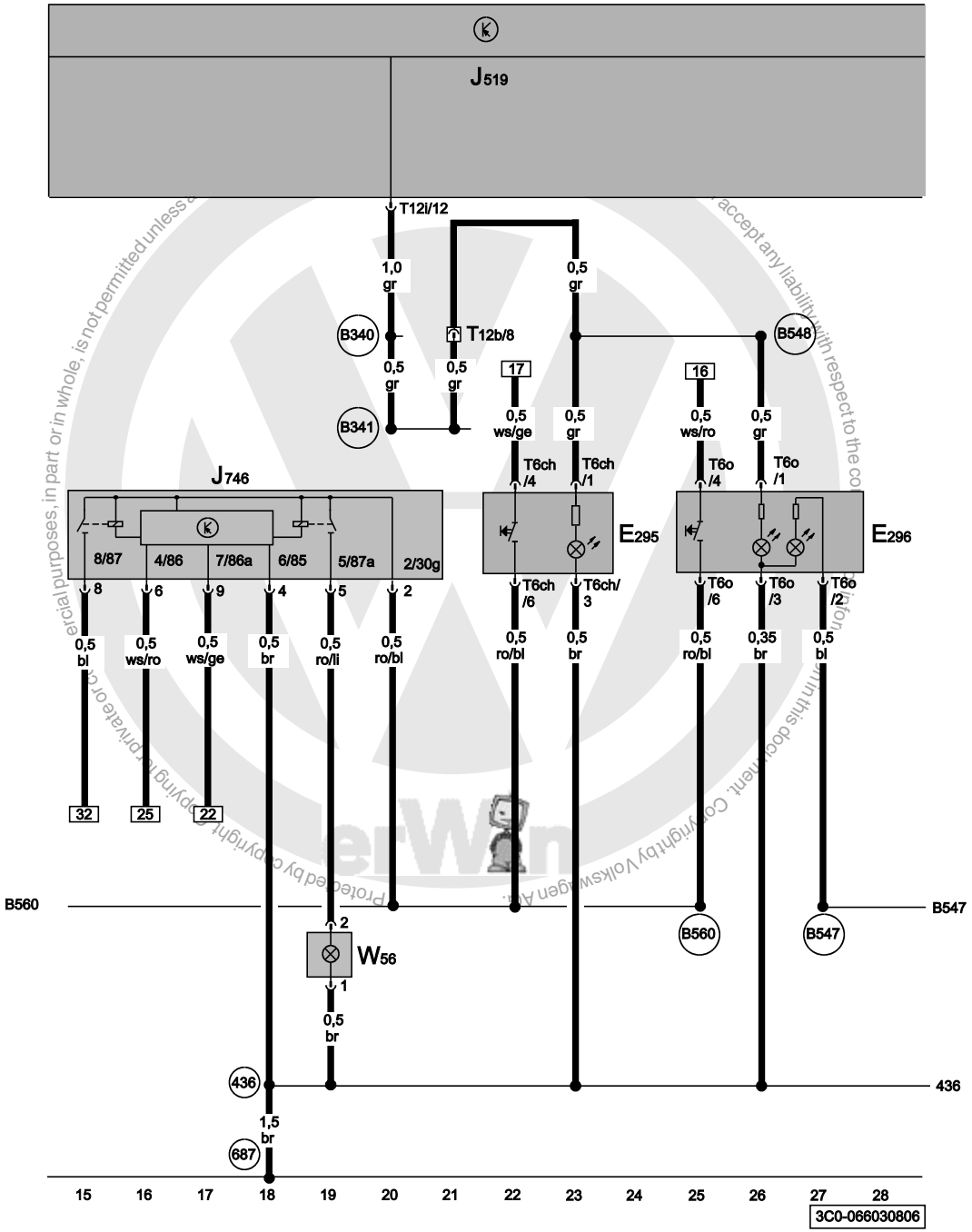


12 V socket, onboard supply control unit, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
S291	Special vehicle fuse 1
SA4	Fuse 4 on fuse holder A
SC11	Fuse 11 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC45	Fuse 45 on fuse holder C
T2cq	2-pin connector
T10s	10-pin connector
T10ad	10-pin connector
U5	12 V socket
12	Earth point, on left in engine compartment
508	Screw connection (30), on electronics box
684	Earth point, on front of left longitudinal member
B330	Positive connection 16 (30a), in main wiring harness
B559	Positive connection 1 (30g), in main wiring harness
B560	Positive connection 1 (30g), in driving school wiring harness
B571	Connection 38, in main wiring harness
B609	Connection 5, in interior wiring harness
B610	Connection 6, in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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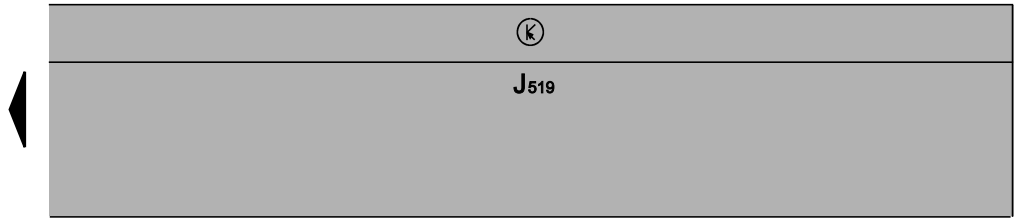


Driving school mode relay, footwell light switch, warning buzzer switch, driving school vehicle footwell illumination, onboard supply control unit

E295	Footwell light switch
E296	Warning buzzer switch
J519	Onboard supply control unit
J746	Driving school mode relay
T6o	6-pin connector, red
T6ch	6-pin connector
T12b	12-pin connector
T12i	12-pin connector
W56	Driving school vehicle footwell illumination
436	Earth connection 1 in driving school wiring harness
687	Earth point 1, on centre tunnel
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B547	Connection 1, in driving school vehicle wiring harness
B548	Connection (58), in driving school vehicle wiring harness
B560	Positive connection 1 (30g), in driving school wiring harness

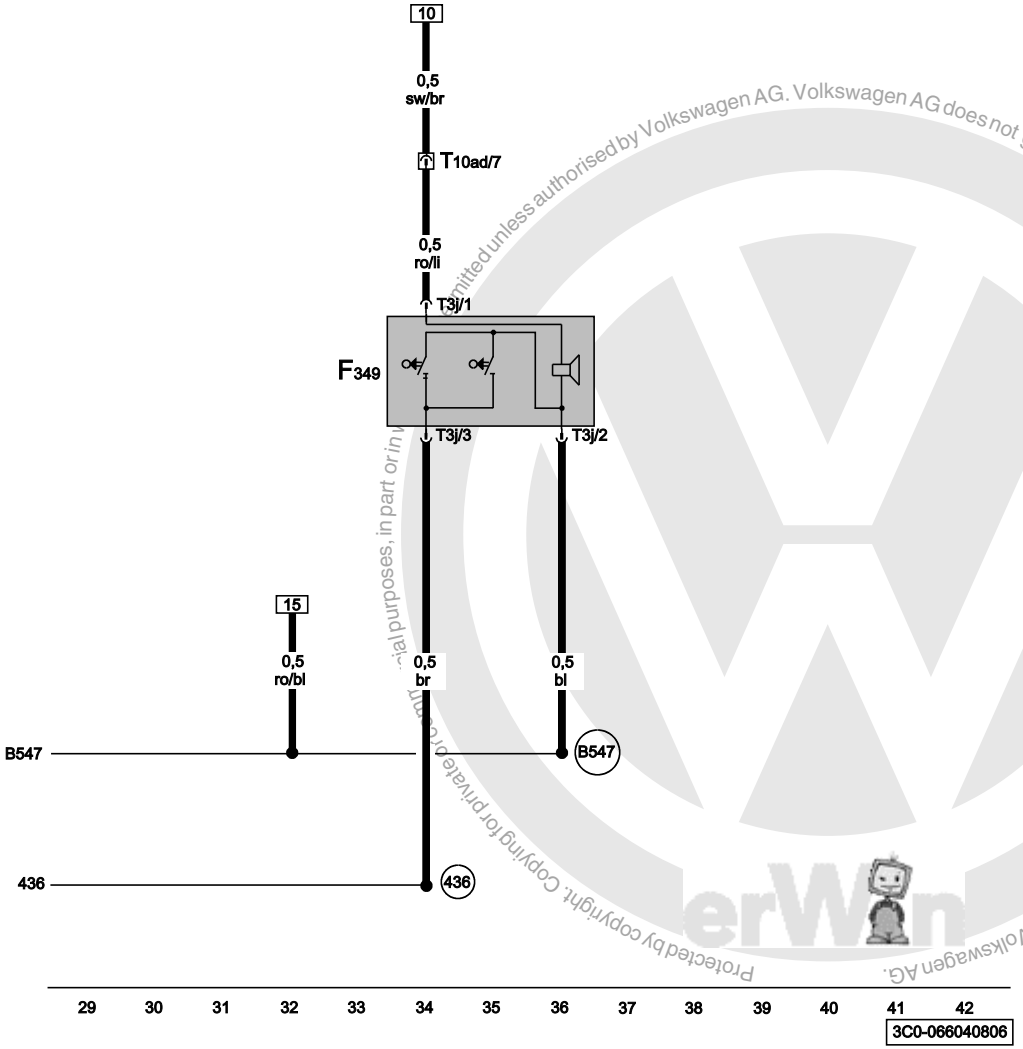
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sw	=	black
ro	=	red
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gn	=	green
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Warning buzzer for pedal switch on front passenger side, onboard supply control unit

F349	Warning buzzer for pedal switch on front passenger side
J519	Onboard supply control unit
T3j	3-pin connector
T10ad	10-pin connector
436	Earth connection 1 in driving school wiring harness
B547	Connection 1, in driving school vehicle wiring harness



ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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gr	=	grey
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1.9 l/77 kW - Turbodiesel, engine code BKC

From May 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

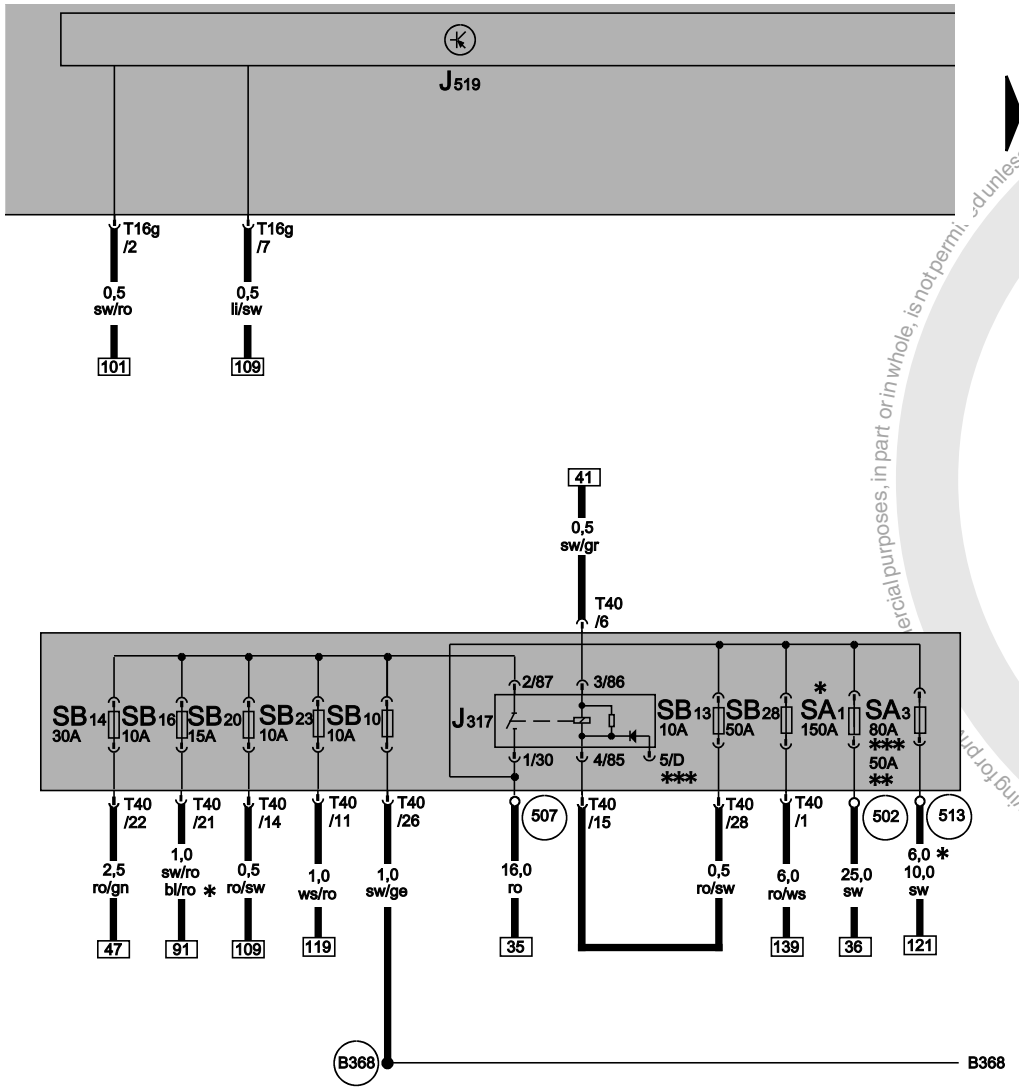
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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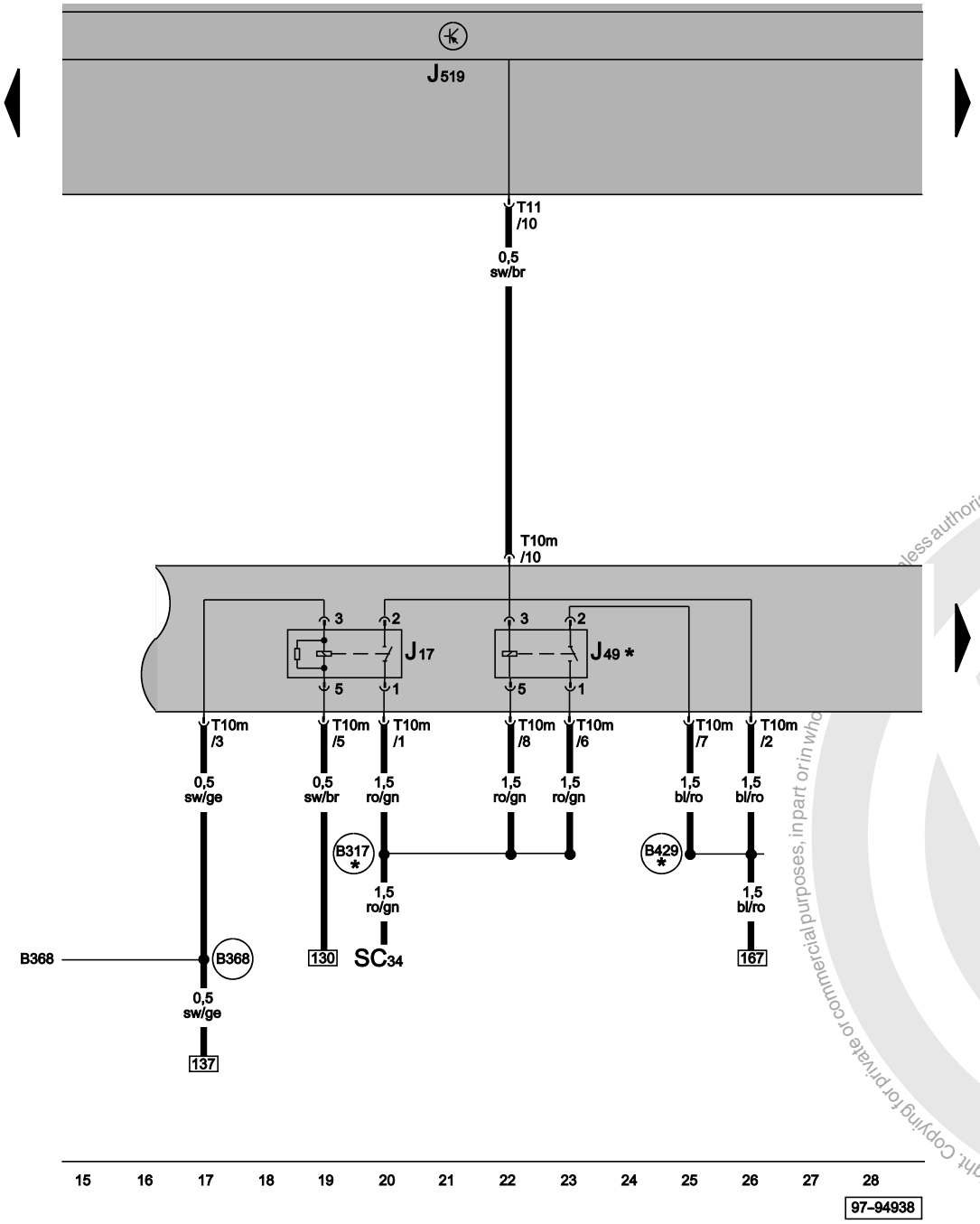


Terminal 30 voltage supply relay

J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB28	Fuse 28 on fuse holder B
T16g	16-pin connector, black
T40	40-pin connector, beneath E-box, in engine compartment
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on fuse holder on battery
513	Threaded connection 3 (30a) on relay plate
B368	Connection 19 (87a), in main wiring harness
*	is dropped in vehicles models with 180 A alternator
**	from November 2005
***	up to November 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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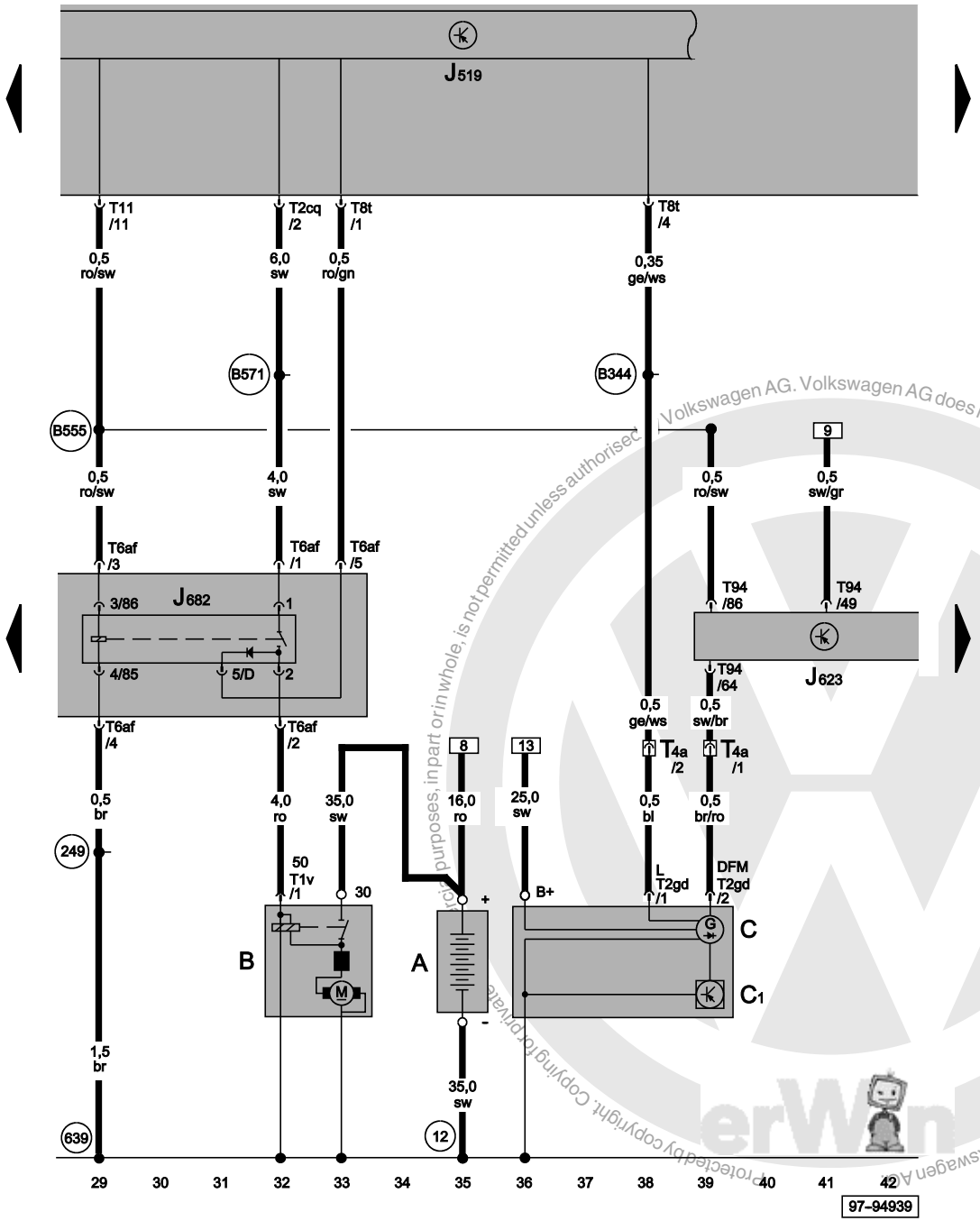


Electric fuel pump 2 relay, fuel pump relay

J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J519	Onboard supply control unit
SC34	Fuse 34 on fuse holder C
T10m	10-pin connector, on E-box
T11	11-pin connector, black
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	only models with auxiliary heater

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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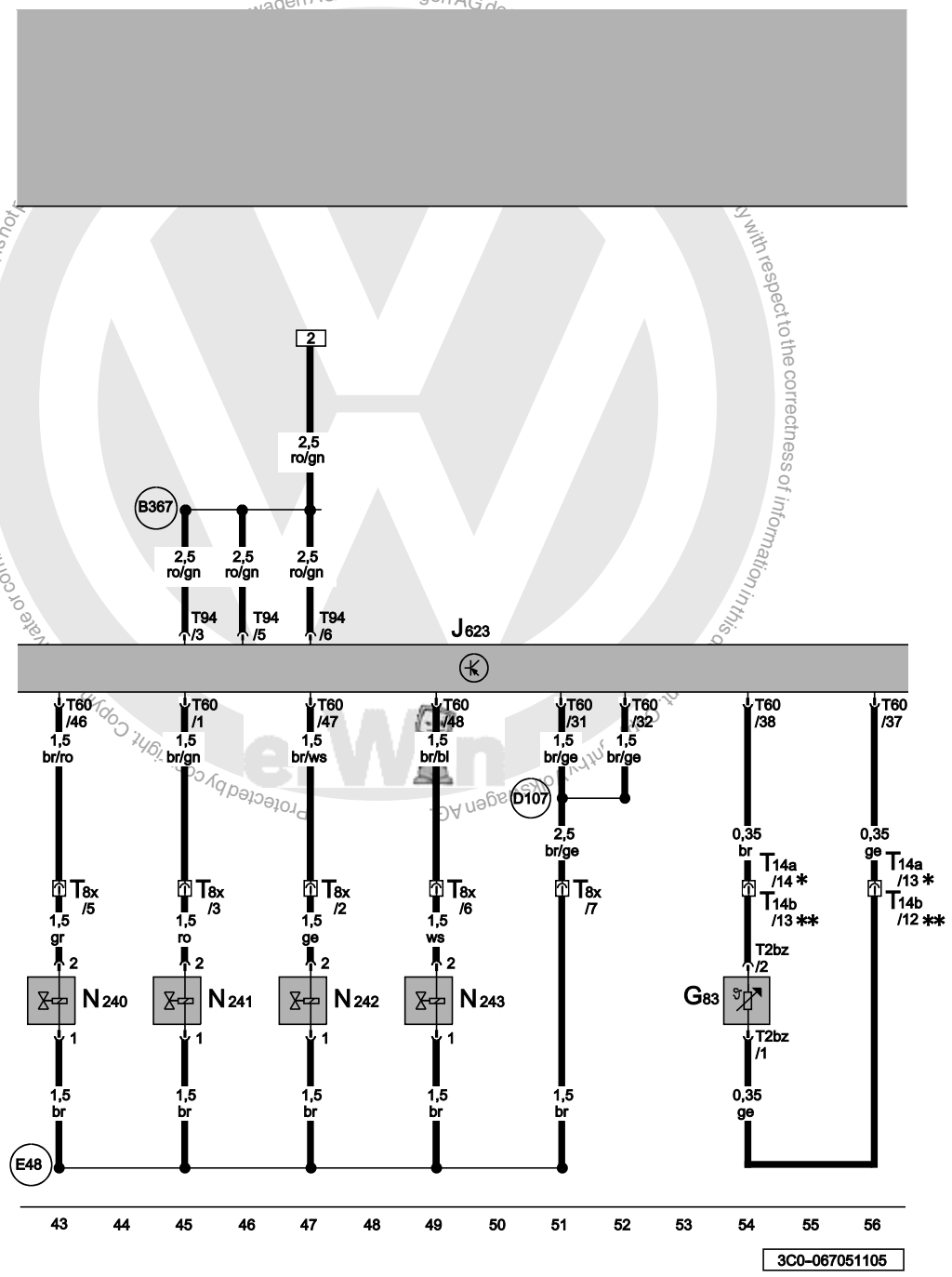


Terminal 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
T1v	Single connector
T2cq	2-pin connector, black
T2gd	2-pin connector
T4a	4-pin connector, near starter
T6af	6-pin connector, on E-box
T8t	8-pin connector, black
T11	11-pin connector, black
T94	94-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38 in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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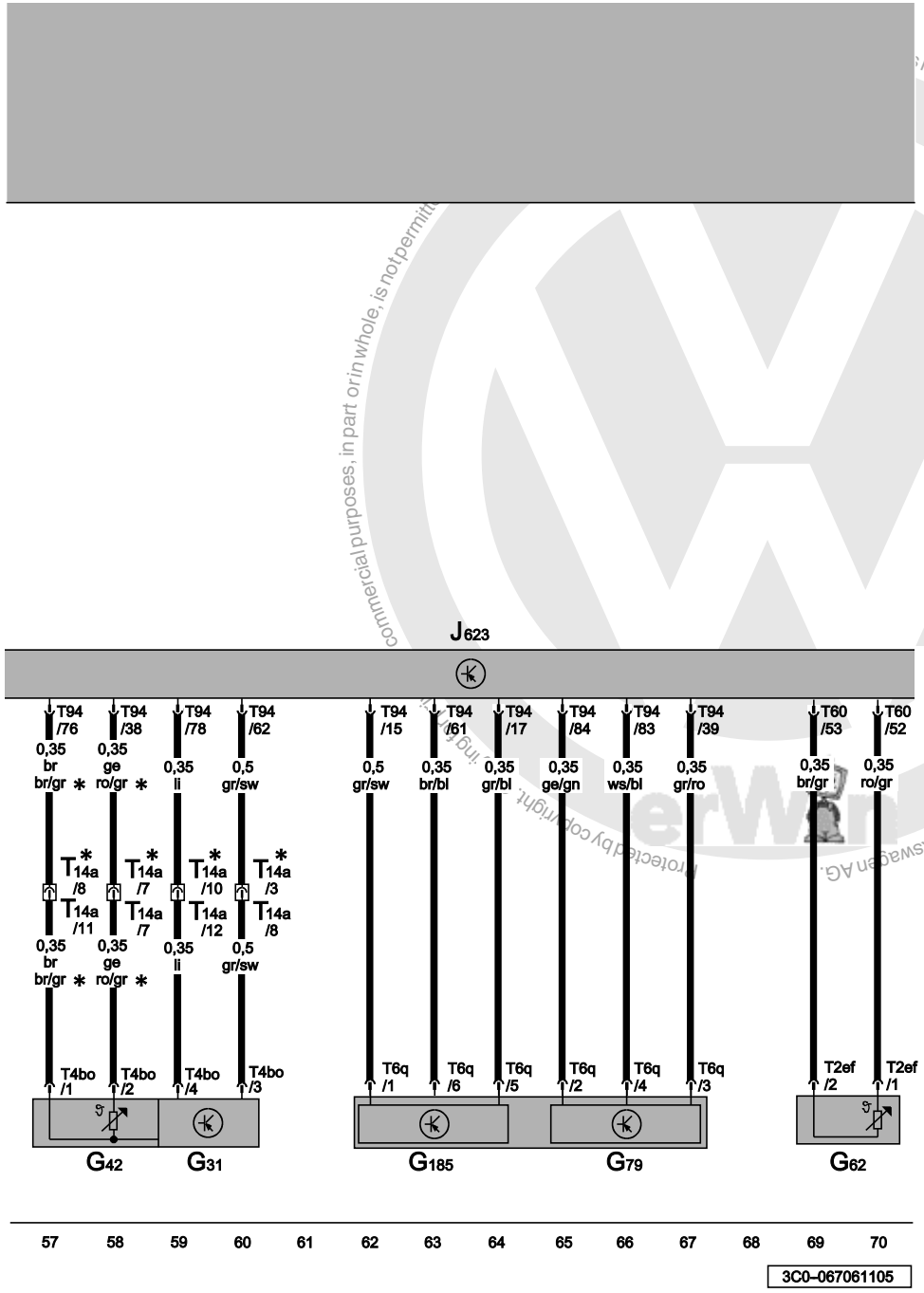
Engine control unit, radiator outlet coolant temperature sender, unit injector valves, No. 1 cyl. to No. 4

G83	Radiator outlet coolant temperature sender
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
T2bz	2-pin connector
T8x	8-pin connector, near injectors
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T14b	14-pin connector, coupling point 2 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D107	Connection 5, in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness
*	from November 2005
**	up to November 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender 2, coolant temperature sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T2ef	2-pin connector, black
T4bo	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
*	from November 2005

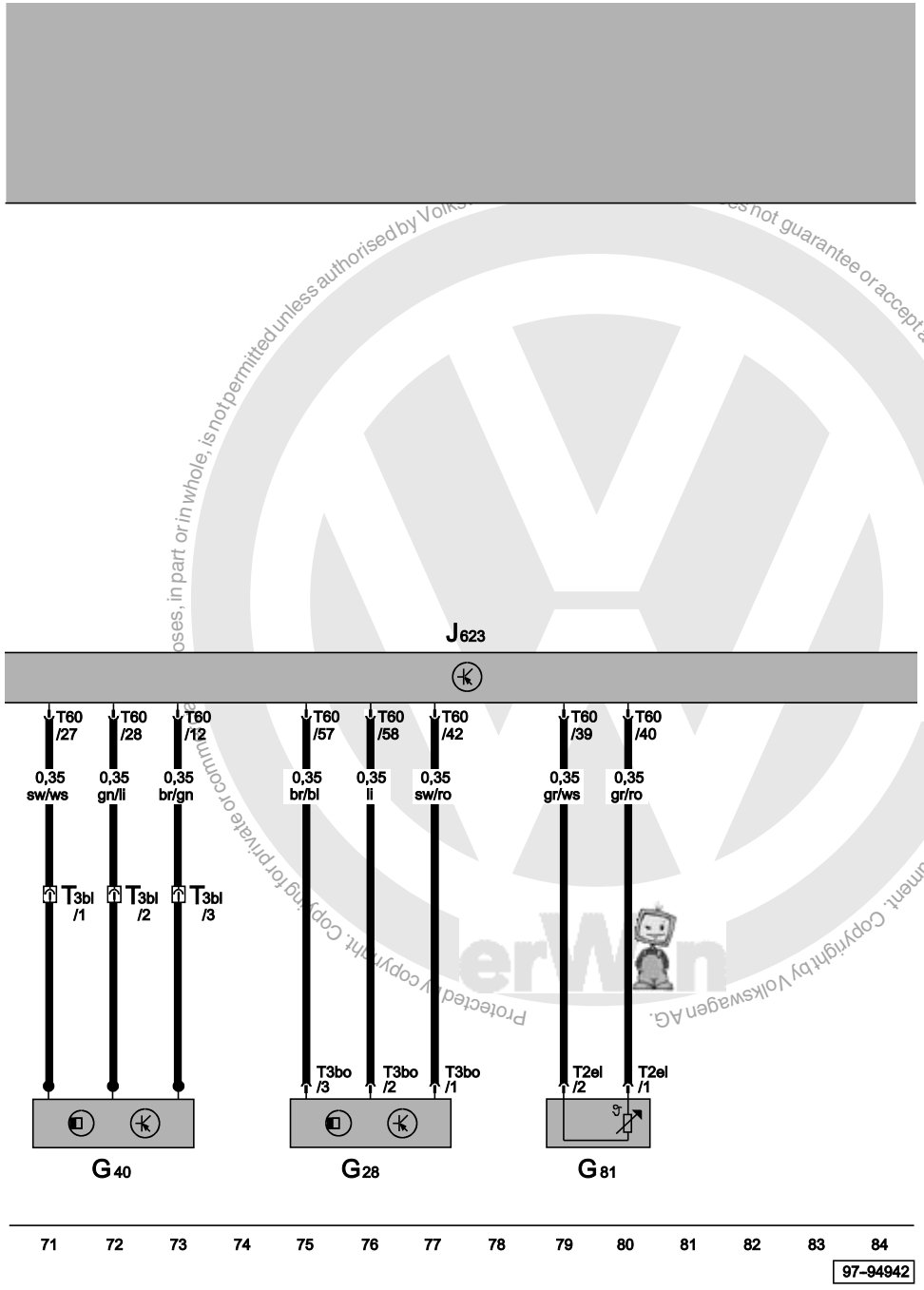


ws	=	white
sw	=	black
ro	=	red
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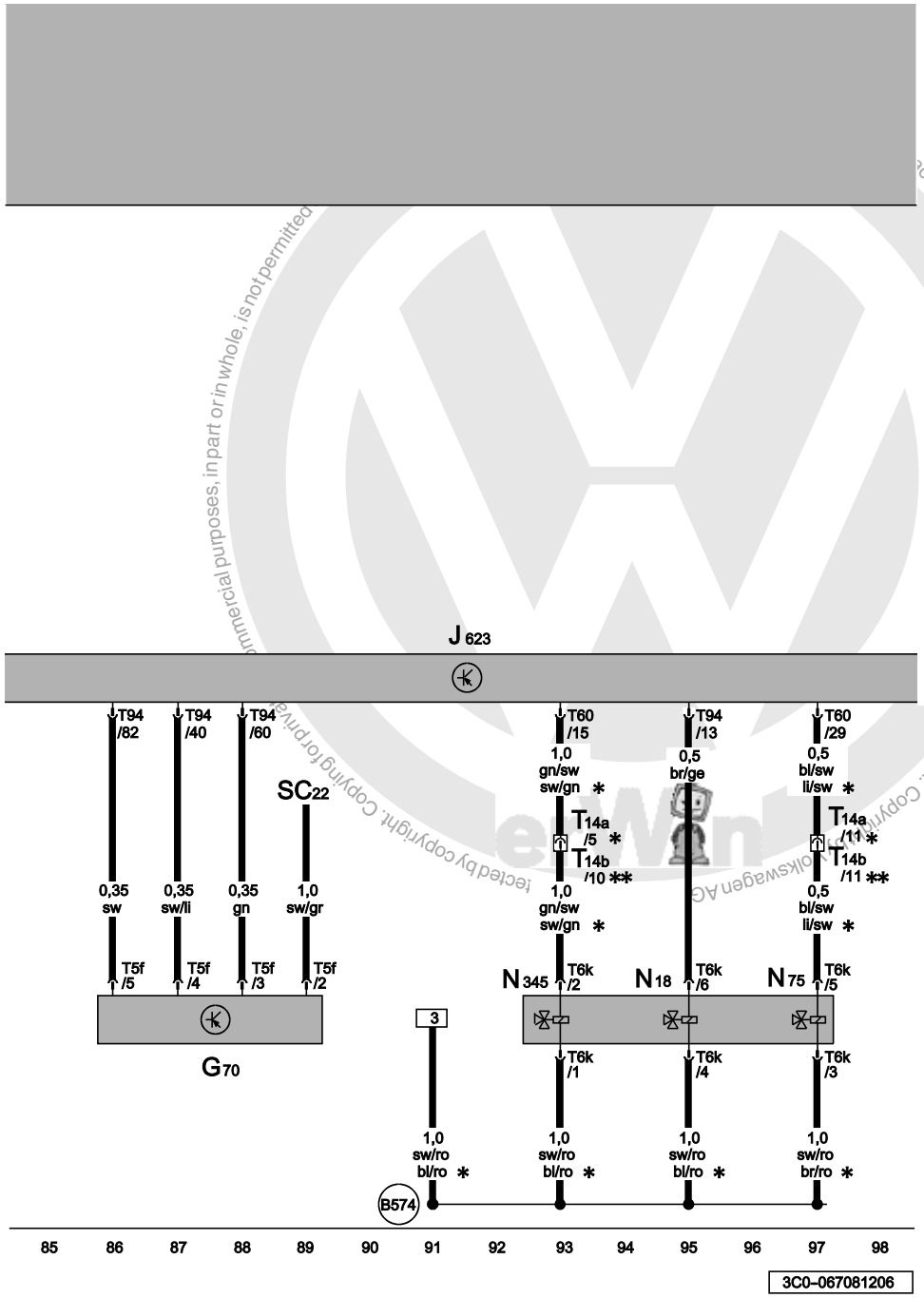
Engine control unit, engine speed sender, Hall sender, fuel temperature sender

G28	Engine speed sender
G40	Hall sender
G81	Fuel temperature sender
J623	Engine control unit
T2el	2-pin connector, black
T3bl	3-pin connector, black
T3bo	3-pin connector, black
T60	60-pin connector



ws = white
sw = black
ro = red
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gn = green
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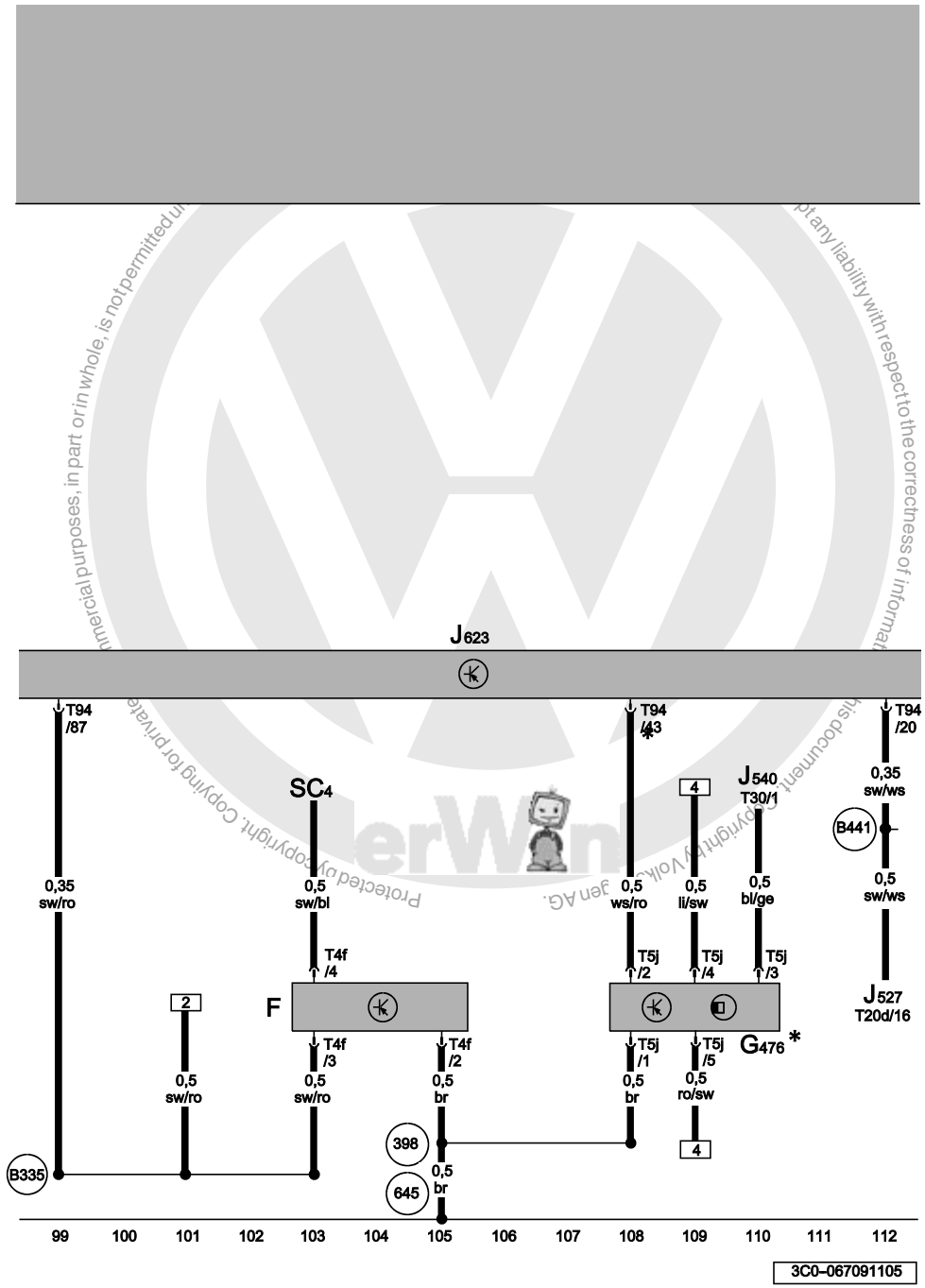


Engine control unit, exhaust gas recirculation valve, air mass meter, charge pressure control solenoid valve

G70	Air mass meter
J623	Engine control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler change-over valve
SC22	Fuse 22 on fuse holder C
T5f	5-pin connector
T6k	6-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T14b	14-pin connector, coupling point 2 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness
*	from November 2005
**	up to November 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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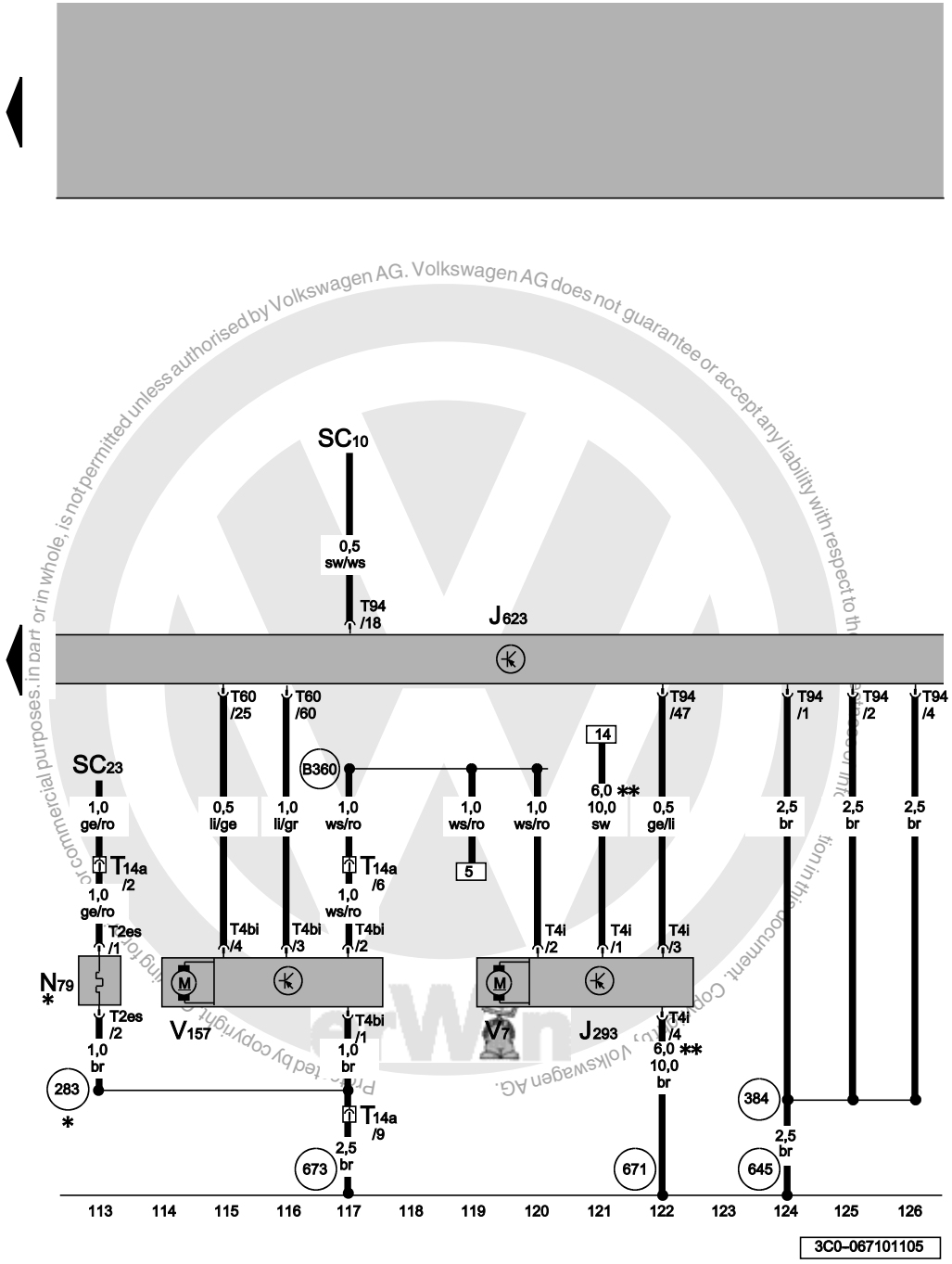


Engine control unit, clutch position sender, brake light switch, brake pedal switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
SC4	Fuse 4 on fuse holder C
T4f	4-pin connector
T5j	5-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, bulkhead
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	models with manual gearbox

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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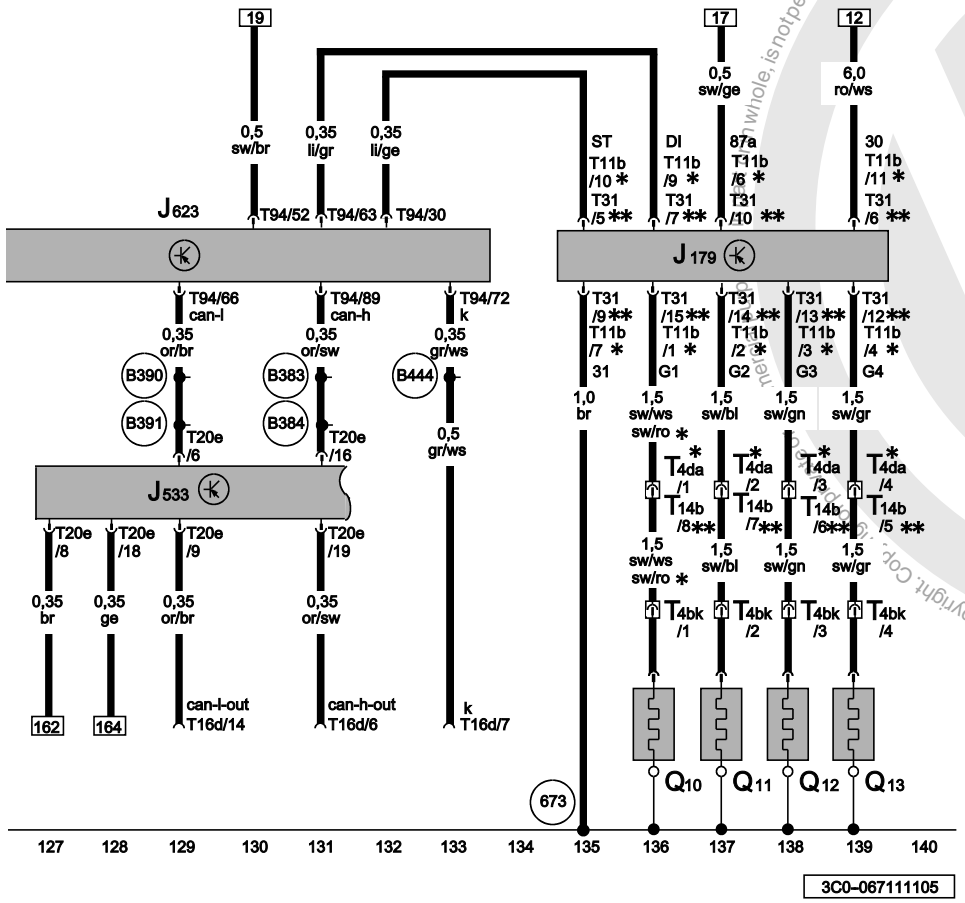
Engine control unit, heater element for crankcase breather, radiator fan, intake manifold flap motor

J293	Radiator fan control unit
J623	Engine control unit
N79	Heater element for crankcase breather
SC10	Fuse 10 on fuse holder C
SC23	Fuse 23 on fuse holder C
T2es	2-pin connector
T4bi	4-pin connector
T4i	4-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V157	Intake manifold flap motor
283	Earth connection 2, engine prewiring harness
384	Earth connection 19, in main wiring harness
645	Earth point 1, bulkhead
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B360	Connection 11 (87a), in main wiring harness
*	models for cold countries only
**	from November 2005

ws	=	white
sw	=	black
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gn	=	green
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Engine control unit, Aautomatic glow period control unit, glow plugs 1-4, data bus diagnostic interface, self-diagnosis connection



J179 Automatic glow period control unit
J533 Data bus diagnostic interface
J623 Engine control unit
Q10 Glow plug 1
Q11 Glow plug 2
Q12 Glow plug 3
Q13 Glow plug 4
T4bk 4-pin connector, coupling point glow plugs
T4da 4-pin connector, black
T14b 14-pin connector, coupling point 2 on left in engine compartment
T16d 16-pin connector, self-diagnosis connection
T20e 20-pin connector
T31 31-pin connector
T94 94-pin connector

673 Earth point 3, on front of left longitudinal member

B383 Connection 1 (powertrain CAN bus, high), in main wiring harness

B384 Connection 2 (powertrain CAN bus, high), in main wiring harness

B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

B391 Connection 2 (powertrain CAN bus, low), in main wiring harness

B444 Connection 1 (diagnosis), in main wiring harness

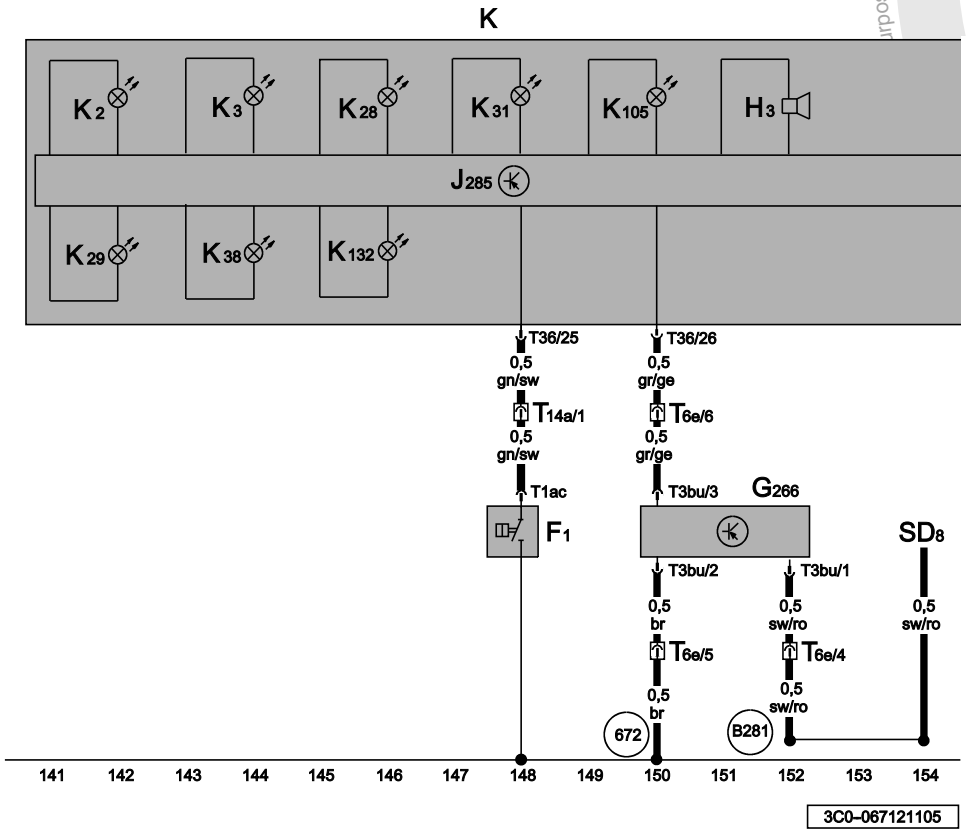
* from November 2005
** up to November 2005

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness

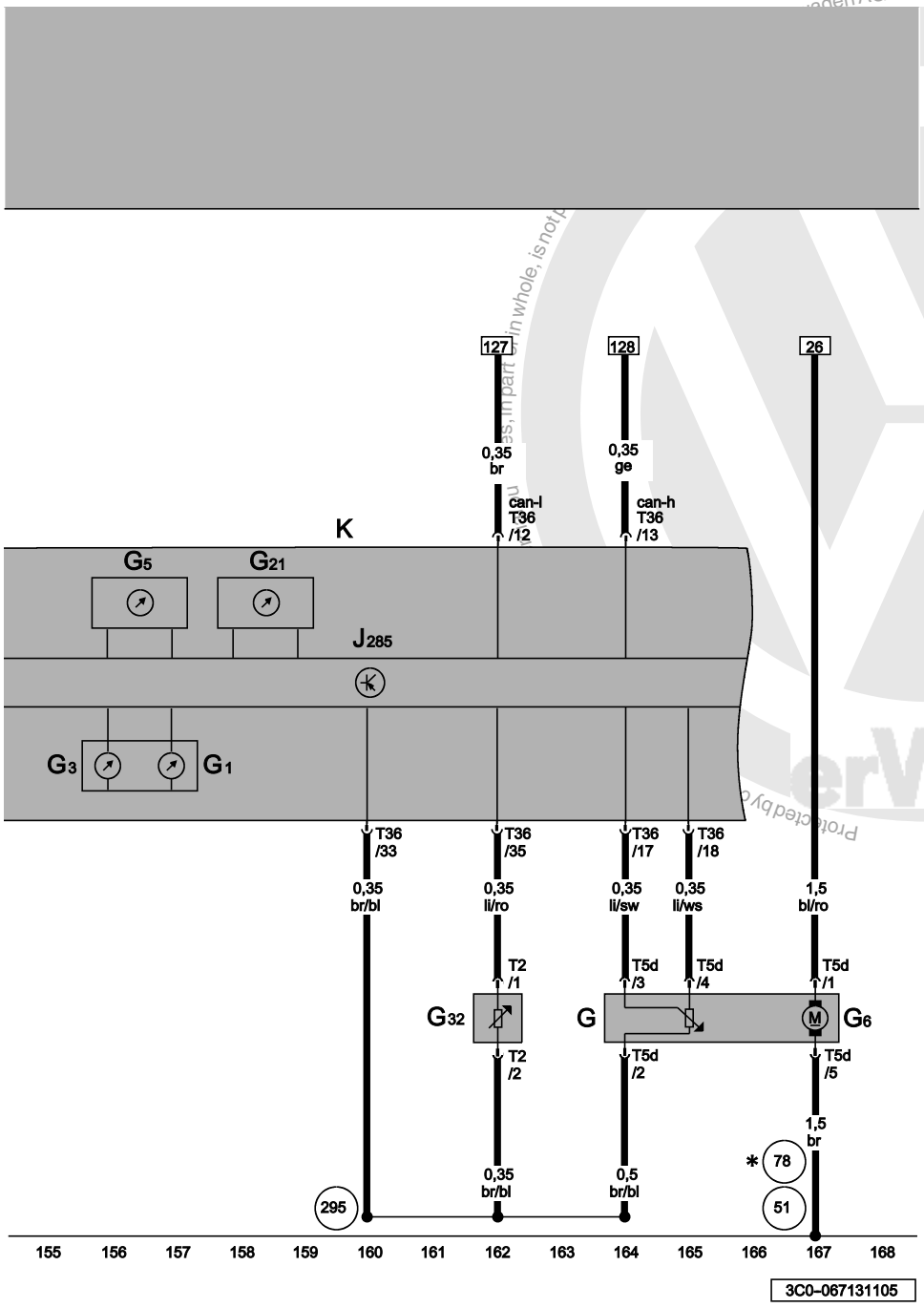


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Dash panel insert, rev counter, speedometer, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
K	Dash panel insert
T2	2-pin connector
T5d	5-pin connector
T36	36-pin connector
(51)	Earth point, on right in luggage compartment
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	from November 2005



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2.0 l/103 kW - turbo diesel, engine code BMP

From May 2005

Notes:

For information concerning

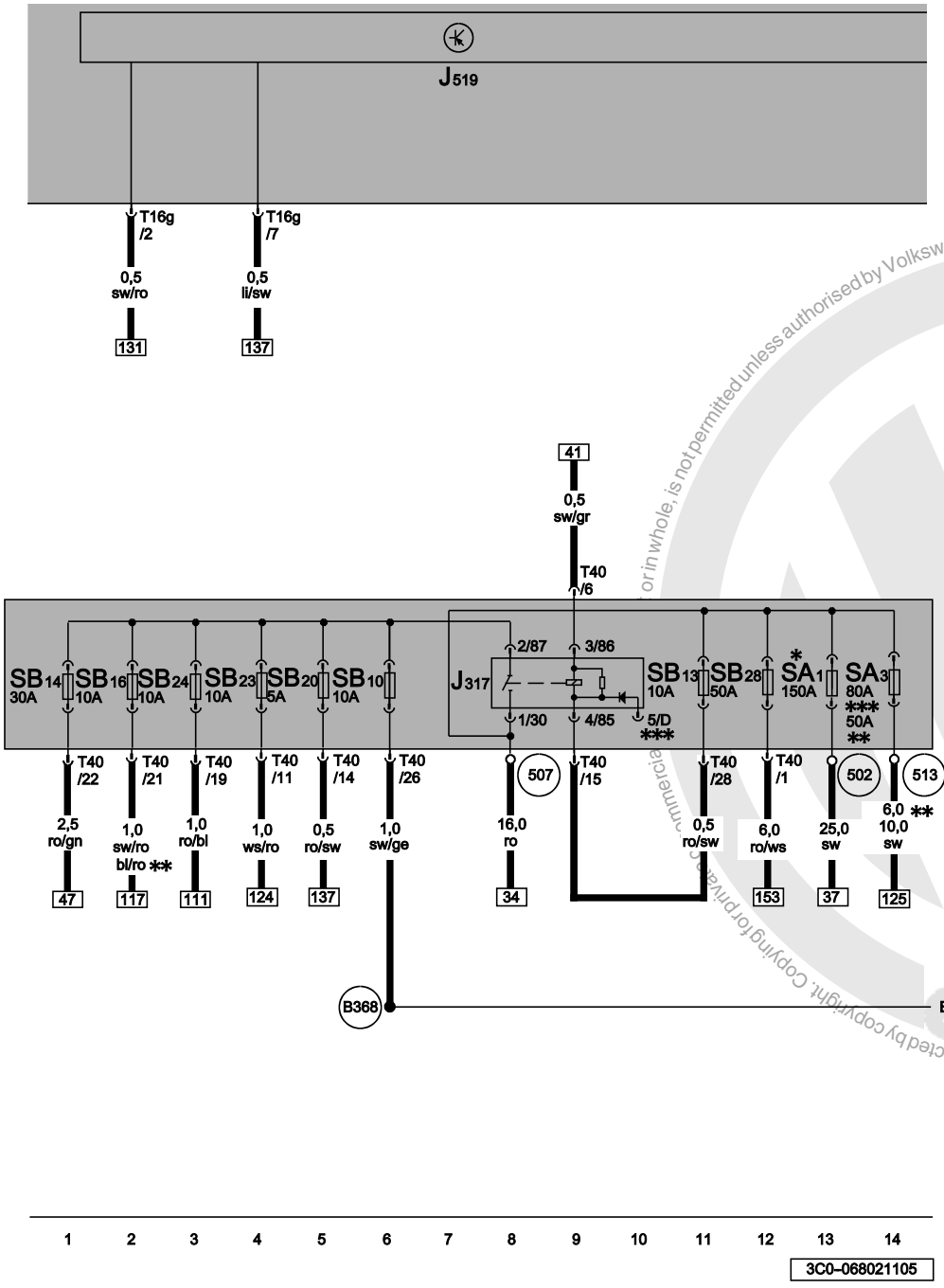
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

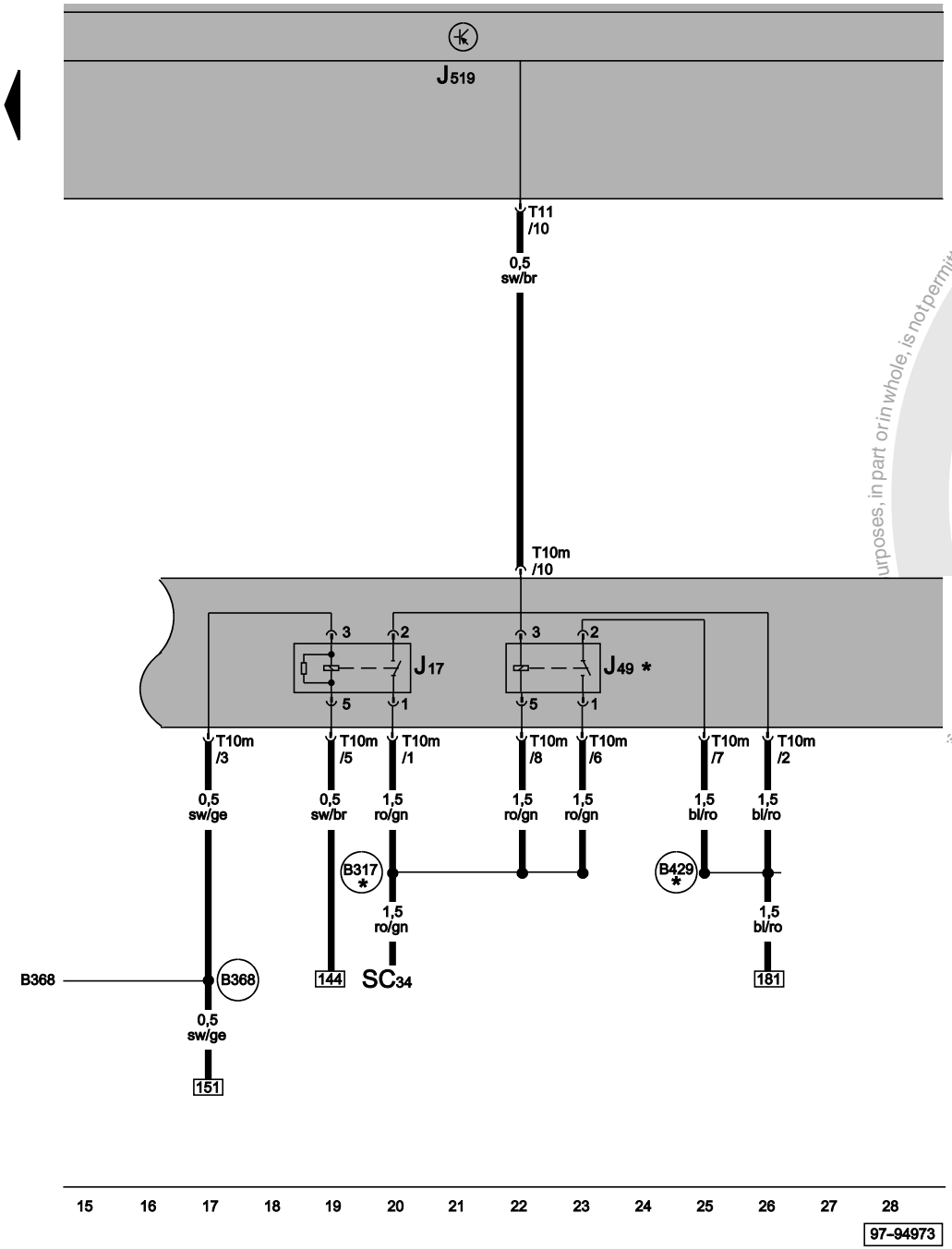


Terminal 30 voltage supply relay

J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
T16g	16-pin connector, black
T40	40-pin connector, under E-box, in engine compartment
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
B368	Connection 19 (87a), in main wiring harness
*	Discontinued in models with 180 A alternator
**	From November 2005
***	Up to November 2005

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
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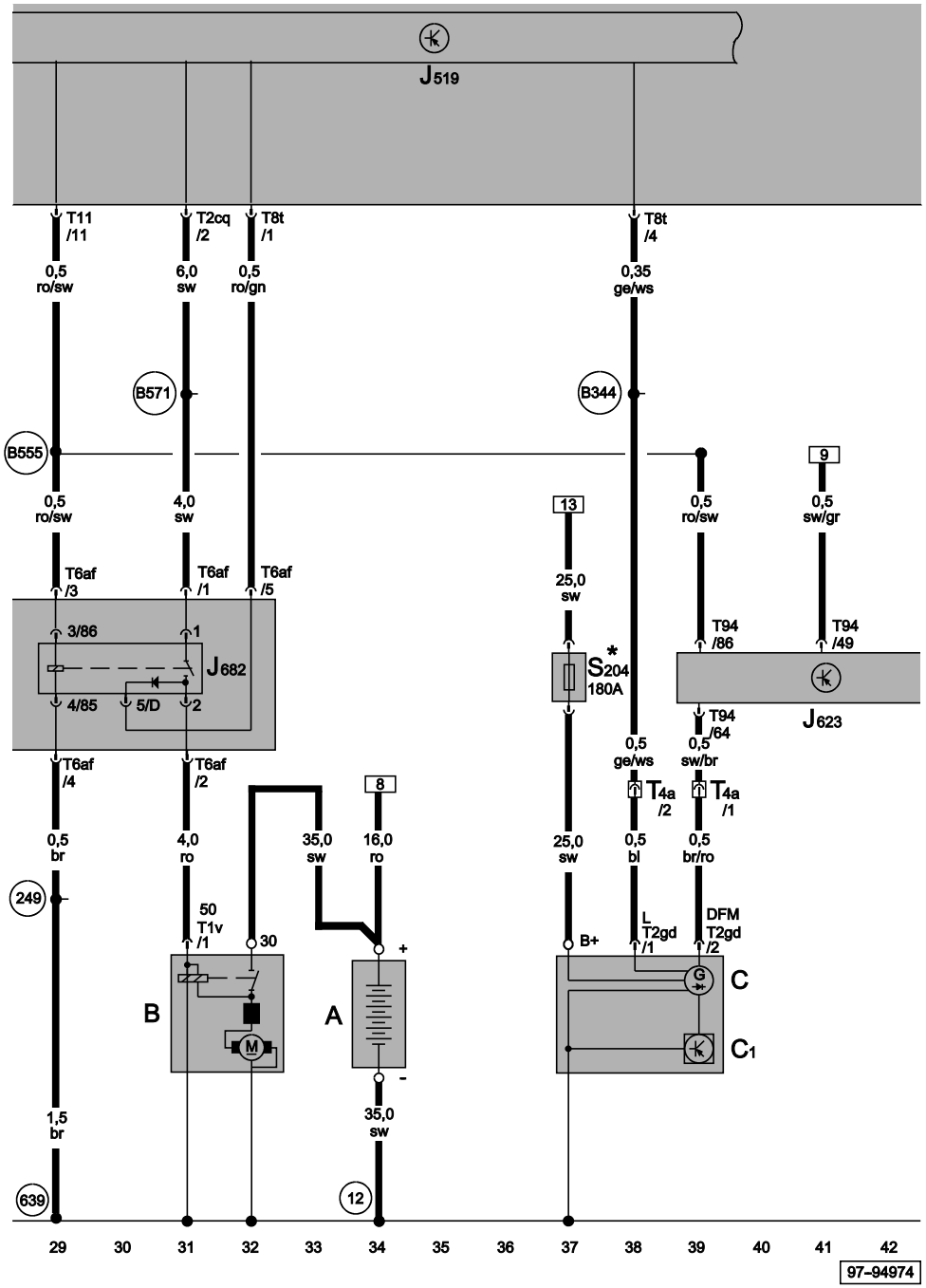


Electric fuel pump 2 relay, fuel pump relay

J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J519	Onboard supply control unit
SC34	Fuse 34 on fuse holder C
T10m	10-pin connector, on E-box
T11	11-pin connector, black
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only models with auxiliary heater

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Terminal 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

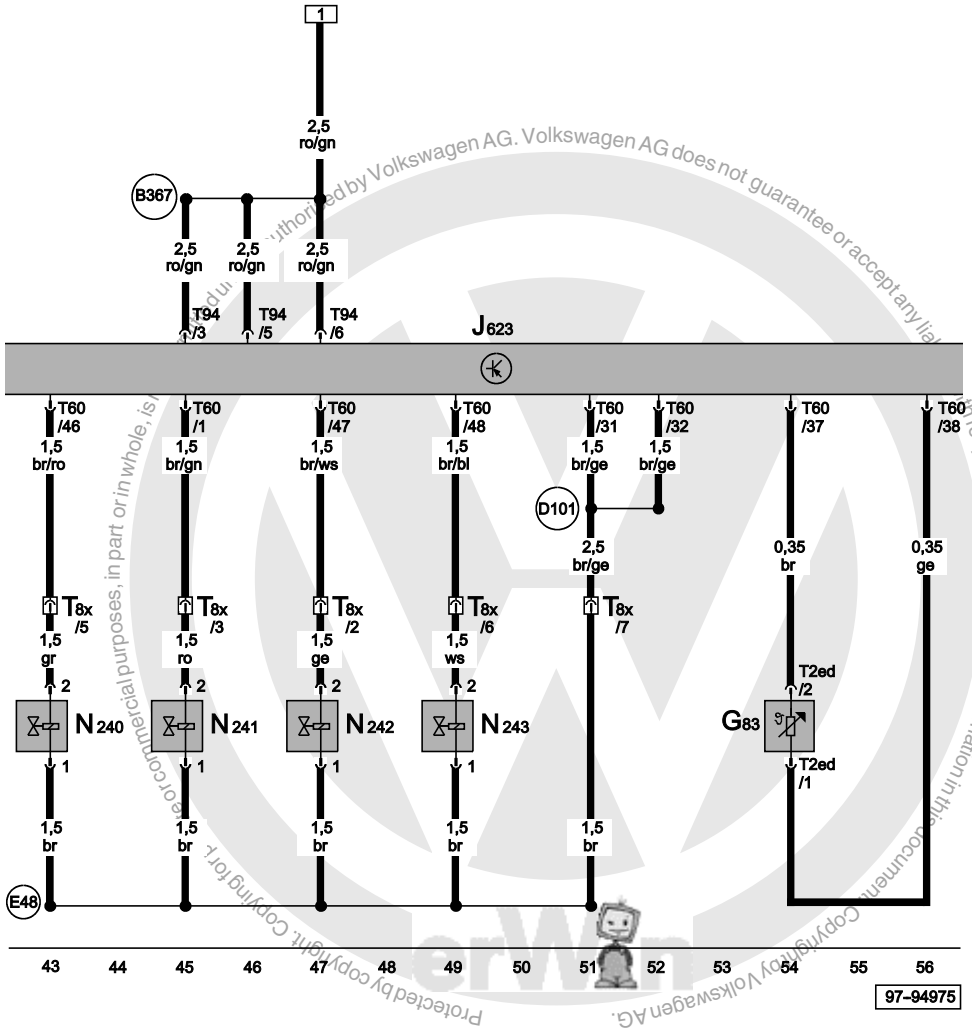
A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
S204	Fuse 1 (30)
T1v	Single connector
T2cq	2-pin connector, black
T2gd	2-pin connector
T4a	4-pin connector, near starter
T6af	6-pin connector, on E-box
T8t	8-pin connector, black
T11	11-pin connector, black
T94	94-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models with 180 A alternator

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Engine control unit, radiator outlet coolant temperature sender, unit injector valves for cylinders 1-4

G83	Radiator outlet coolant temperature sender
J623	Engine control unit
N240	Unit injector valve of cylinder 1
N241	Unit injector valve of cylinder 2
N242	Unit injector valve of cylinder 3
N243	Unit injector valve of cylinder 4
T2ed	2-pin connector
T8x	8-pin connector, near injectors
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

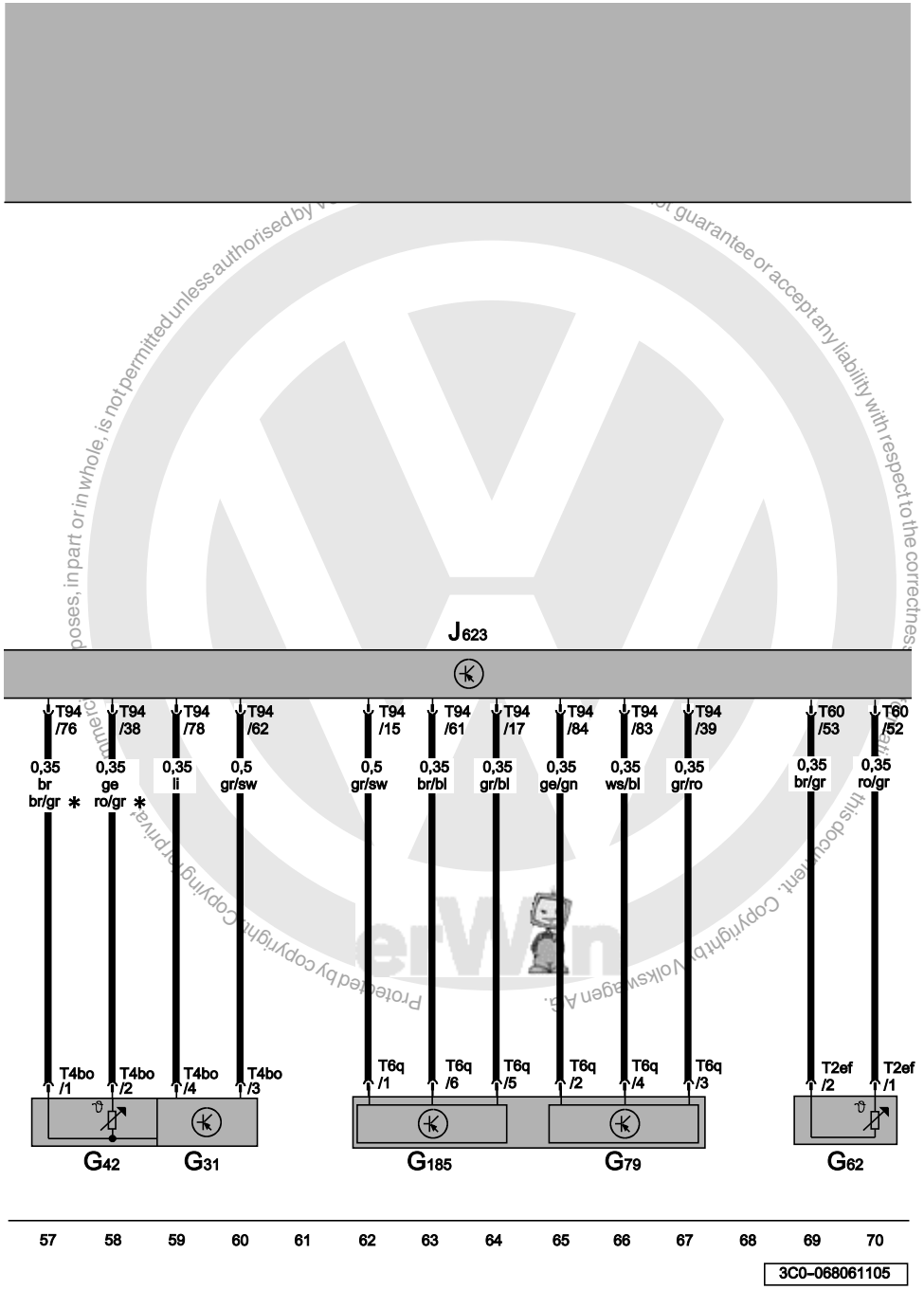


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Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender 2, coolant temperature sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T2ef	2-pin connector
T4bo	4-pin connector
T6q	6-pin connector
T60	60-pin connector
T94	94-pin connector
*	From November 2005

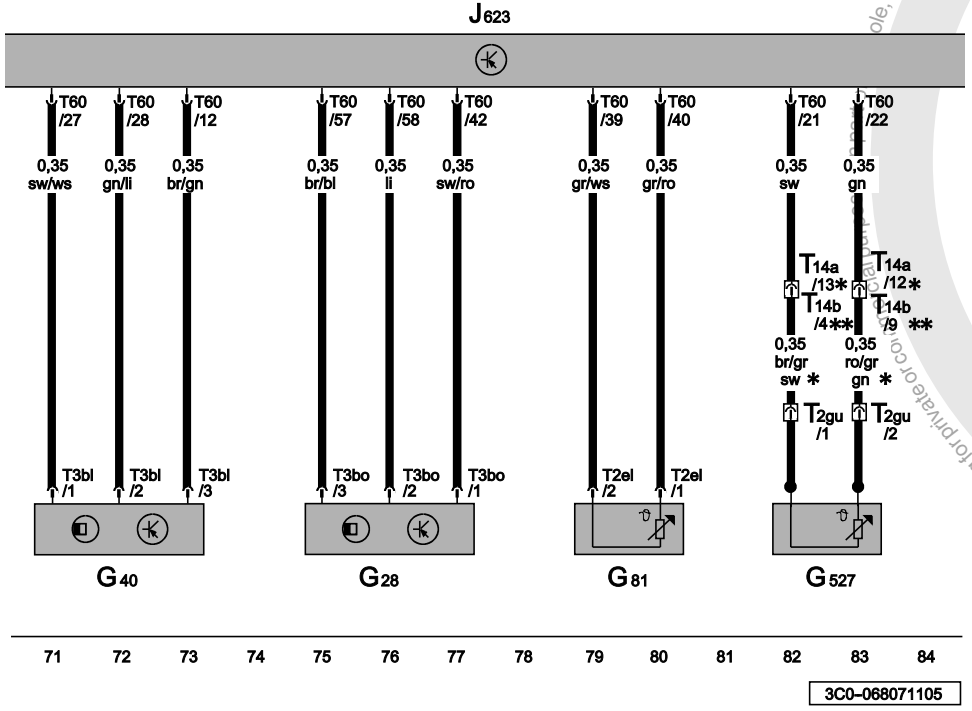


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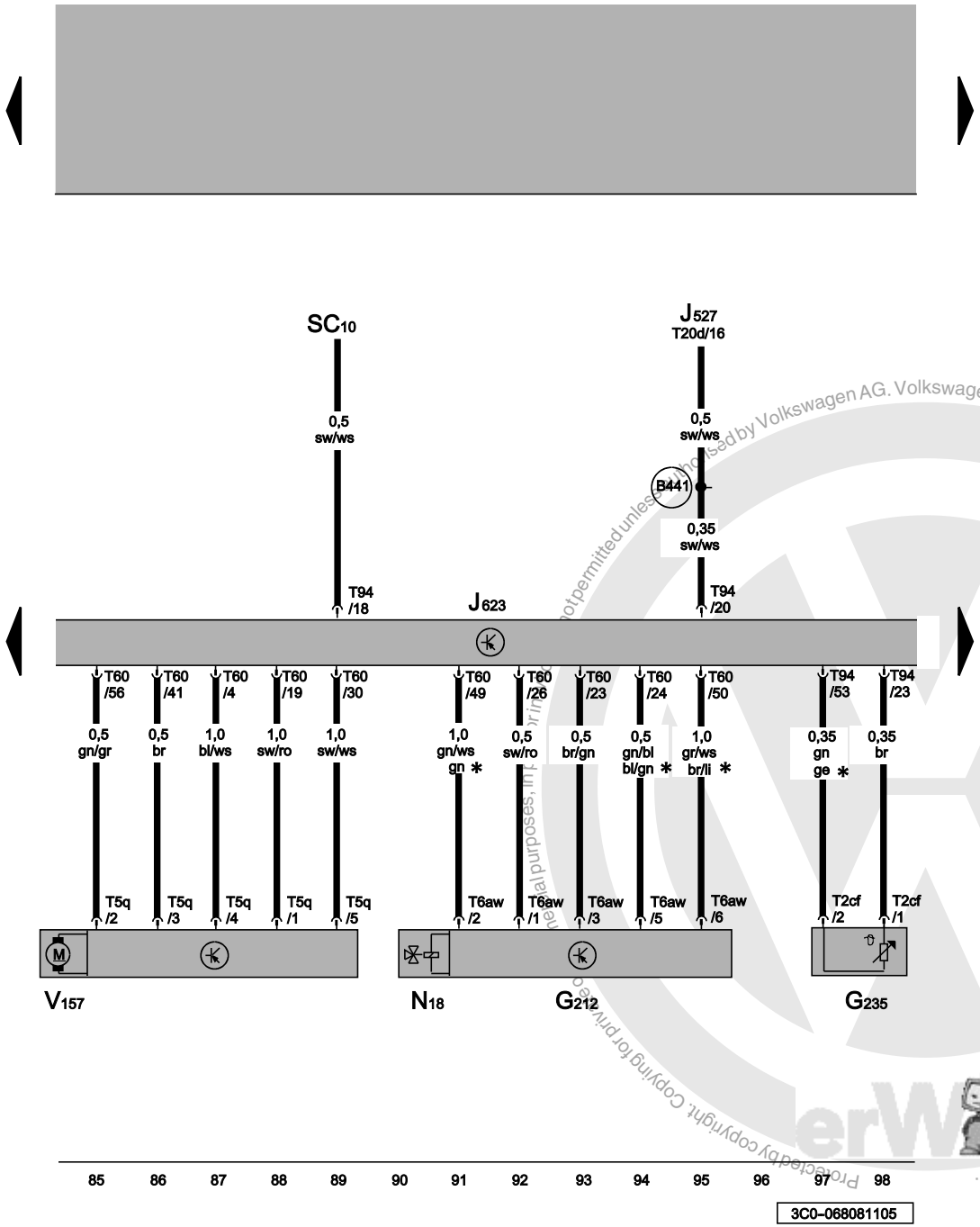
Engine control unit, engine speed sender, Hall sender, fuel temperature sender

G28	Engine speed sender
G40	Hall sender
G81	Fuel temperature sender
G527	Temperature sender after particulate filter
J623	Engine control unit
T2el	2-pin connector
T2gu	2-pin connector
T3bl	3-pin connector, black
T3bo	3-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T14b	14-pin connector, coupling point 2 on left in engine compartment
T60	60-pin connector
*	From November 2005
**	Up to November 2005



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Engine control unit, intake manifold flap motor, exhaust gas recirculation valve, exhaust gas recirculation potentiometer, exhaust gas temperature sender 1

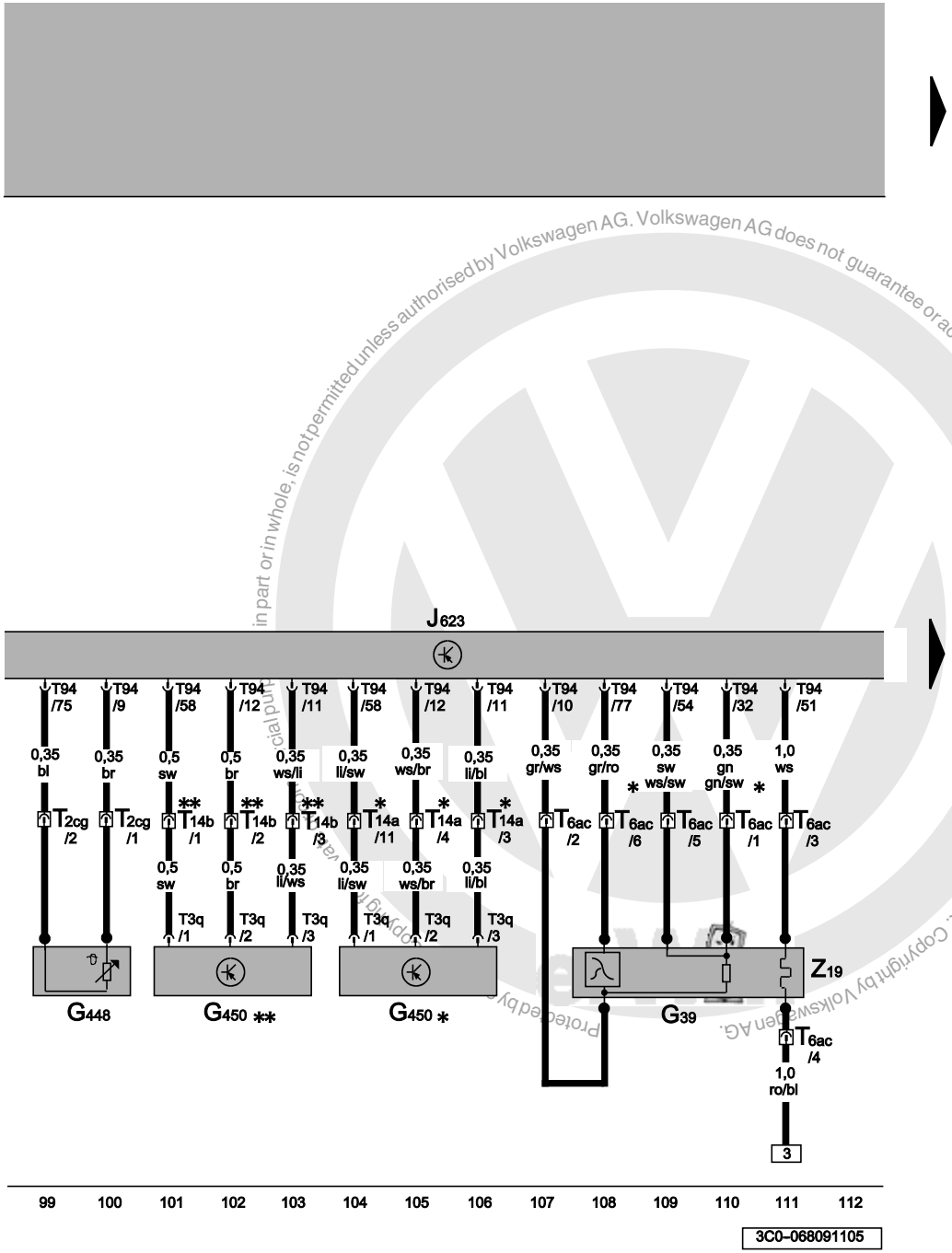
G212	Exhaust gas recirculation potentiometer
G235	Exhaust temperature sender 1
J527	Steering column electronics control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
SC10	Fuse 10 on fuse holder C
T2cf	2-pin connector
T5q	5-pin connector
T6aw	6-pin connector
T20d	20-pin connector
T60	60-pin connector
T94	94-pin connector
V157	Intake manifold flap motor
B441	Connection (CCS), in main wiring harness
*	From November 2005

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Engine control unit, Lambda probe, exhaust gas pressure sensor 1, exhaust gas temperature sender 2 for bank 1

G39	Lambda probe
G448	Exhaust gas temperature sender 2 for bank 1
G450	Exhaust gas pressure sensor 1
J623	Engine control unit
T2cg	2-pin connector
T3q	3-pin connector
T6ac	6-pin connector, coupling point for Lambda probe
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T14b	14-pin connector, coupling point 2 on left in engine compartment
T94	94-pin connector
Z19	Lambda probe heater
*	From November 2005
**	Up to November 2005

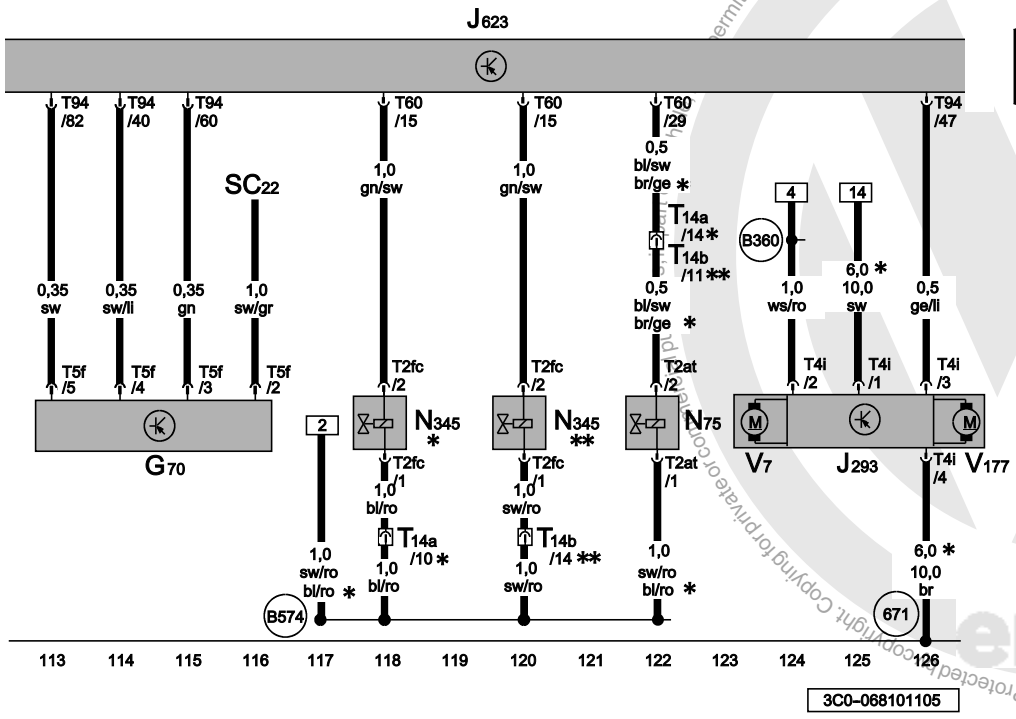


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Engine control unit, radiator fan control unit, air mass meter, charge pressure control solenoid valve

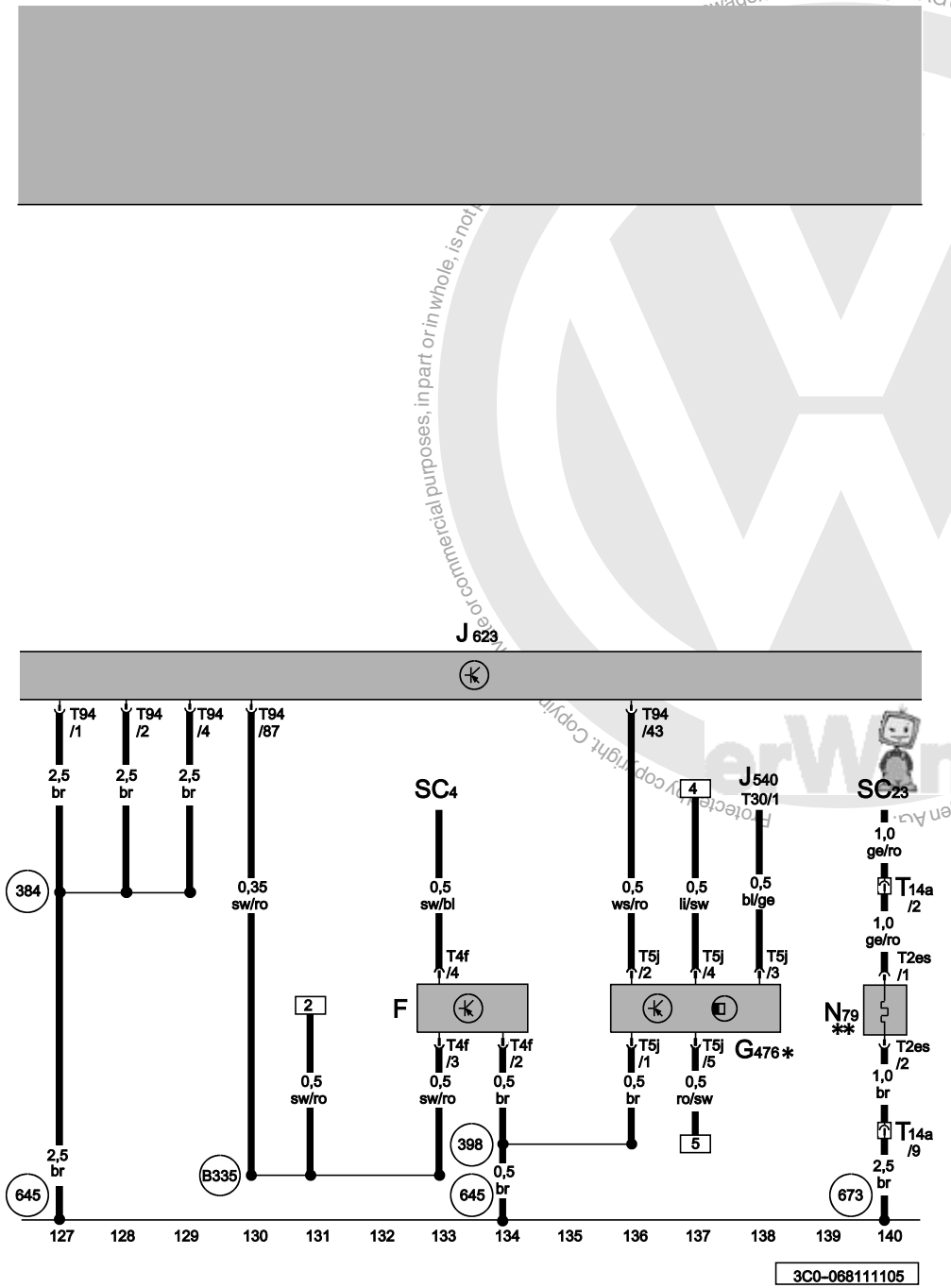
G70	Air mass meter
J293	Radiator fan control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler changeover valve
SC22	Fuse 22 on fuse holder C
T2at	2-pin connector
T2fc	2-pin connector
T4i	4-pin connector
T5f	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T14b	14-pin connector, coupling point 2 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B360	Connection 11 (87a), in main wiring harness
B574	Connection 20 (87a), in main wiring harness
*	From November 2005
**	Up to November 2005



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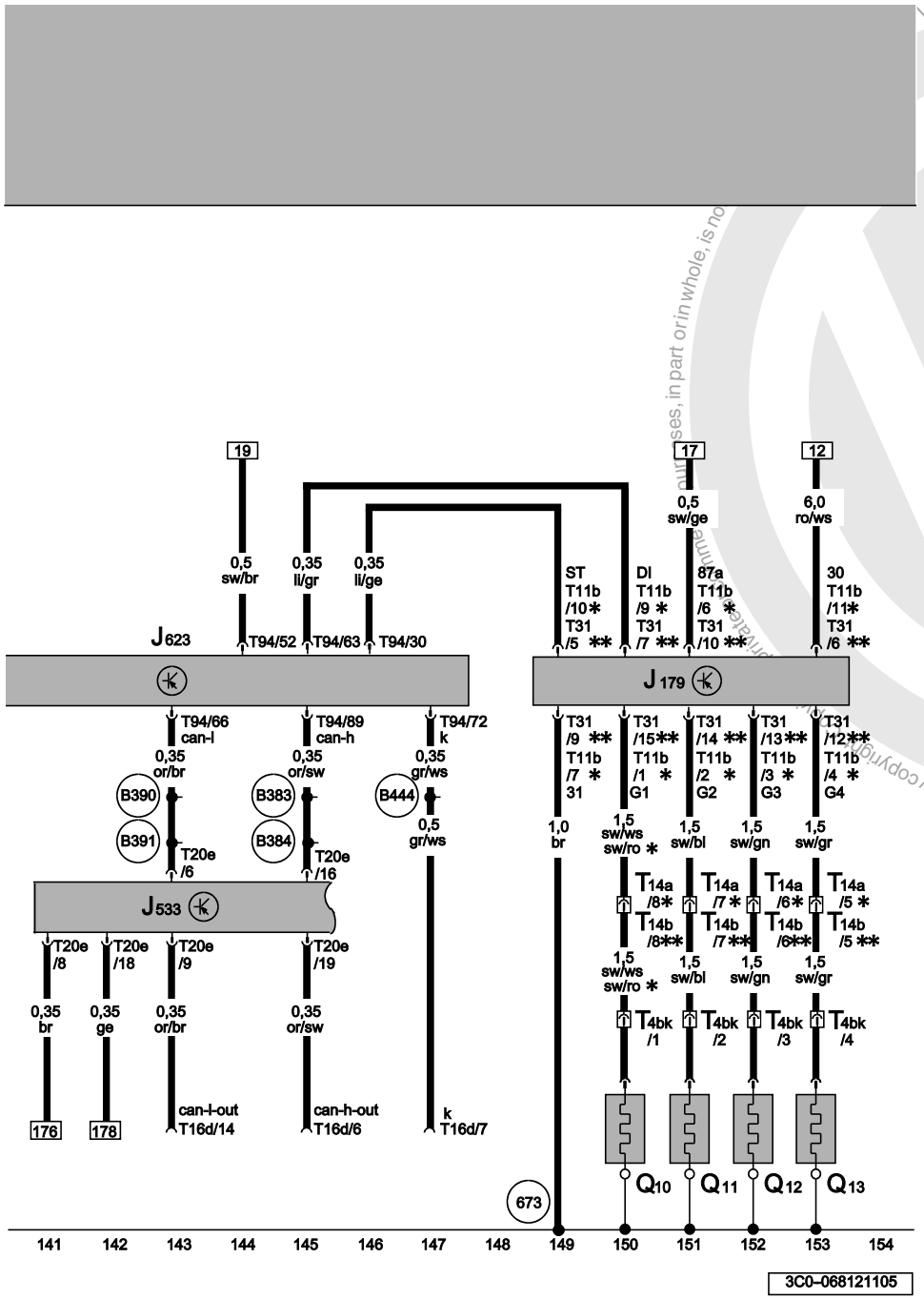
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Engine control unit, clutch position sender. brake light switch, crankcase breather heater element

F	Brake light switch
G476	Clutch position sender
J540	Control unit for electromechanical parking brake
J623	Engine control unit
N79	Crankcase breather heater element
SC4	Fuse 4 on fuse holder C
SC23	Fuse 23 on fuse holder C
T2es	2-pin connector
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T30	30-pin connector
T94	94-pin connector
384	Earth connection 19, in main wiring harness
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
673	Earth point 3, on front of left longitudinal member
B335	Connection 1 (54), in main wiring harness
*	Only models with manual gearbox
**	Only models for cold countries

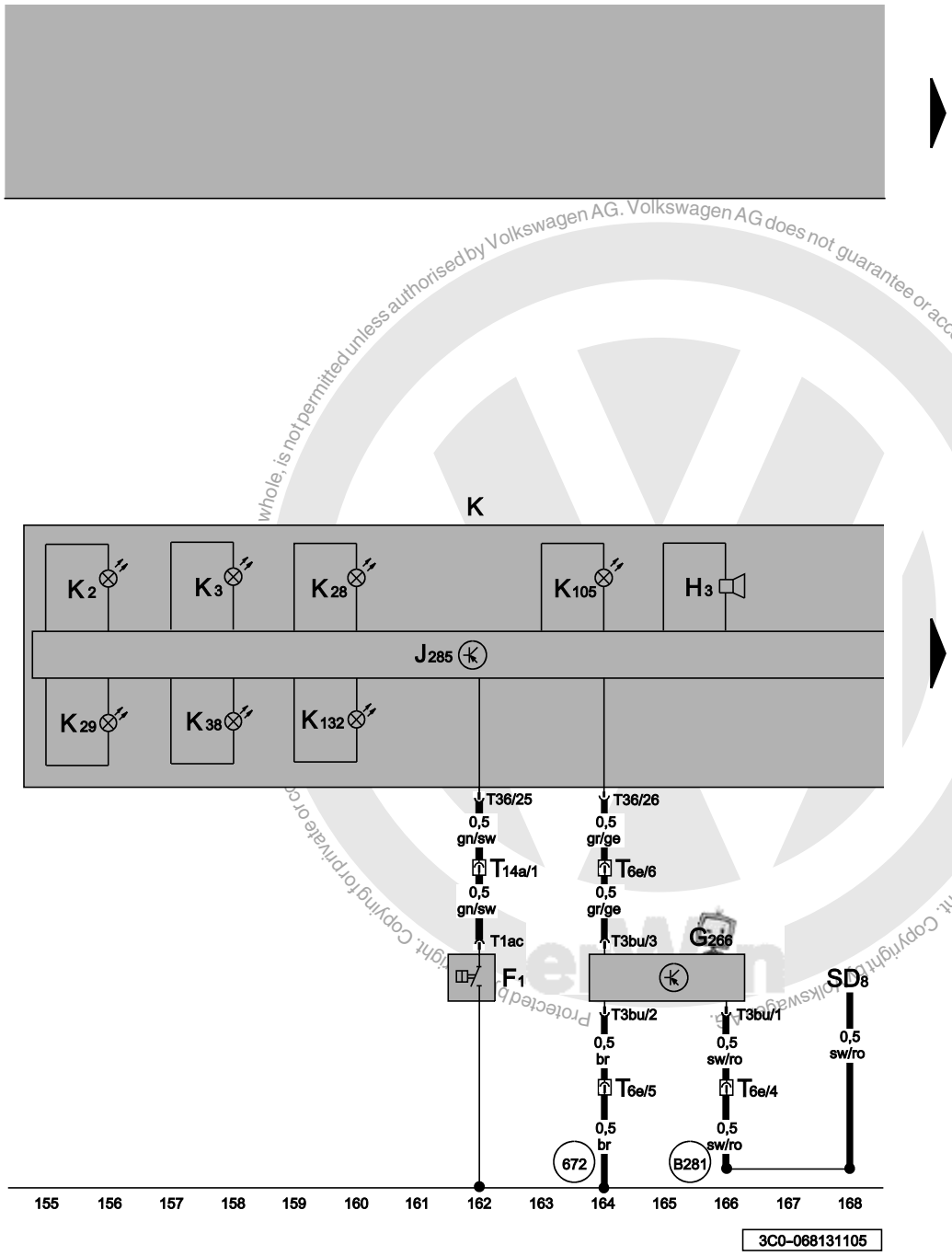


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Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J533	Data bus diagnostic interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T4bk	4-pin connector, coupling point glow plugs
T11b	11-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T14b	14-pin connector, coupling point 2 on left in engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T31	31-pin connector
T94	94-pin connector
673	Earth point 3, on front of left longitudinal member
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	From November 2005
**	Up to November 2005

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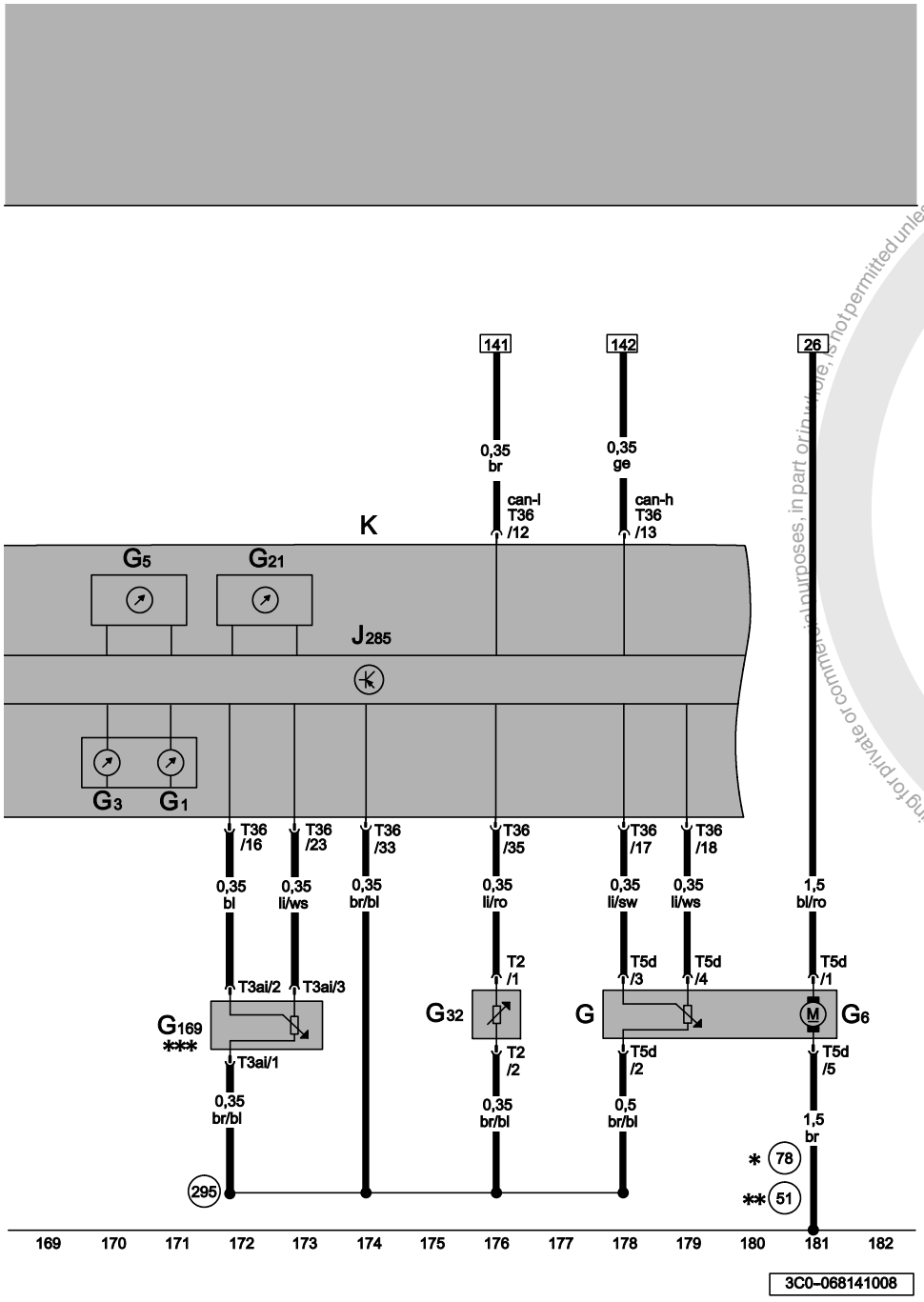
Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness

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Dash panel insert, rev counter, speedometer, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T36	36-pin connector
51	Earth point, on right in luggage compartment
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
*	From November 2005
**	Up to November 2005
***	Only models with all-wheel drive



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1.6 l/85 kW Motronic, engine code BLF

from May 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

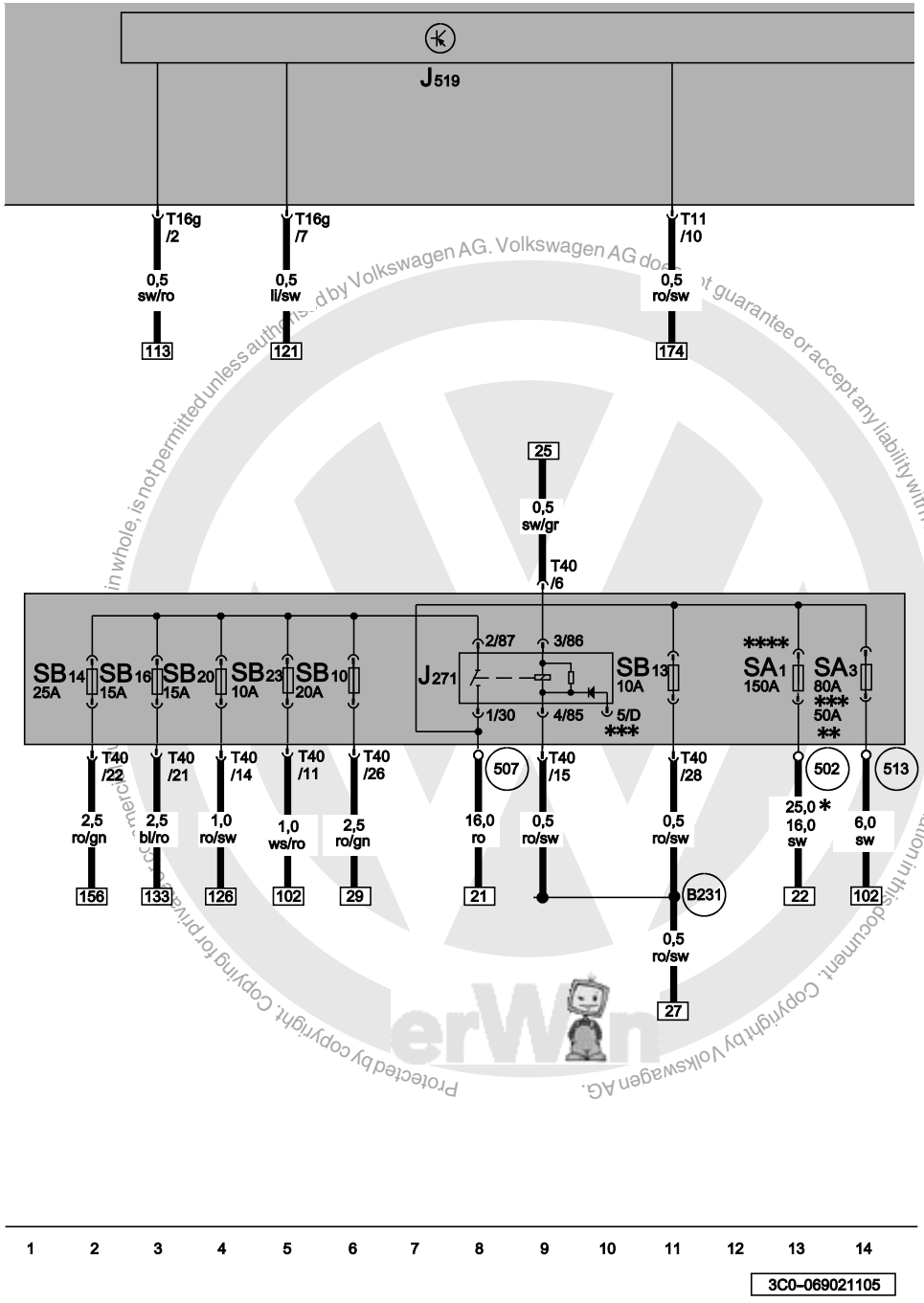
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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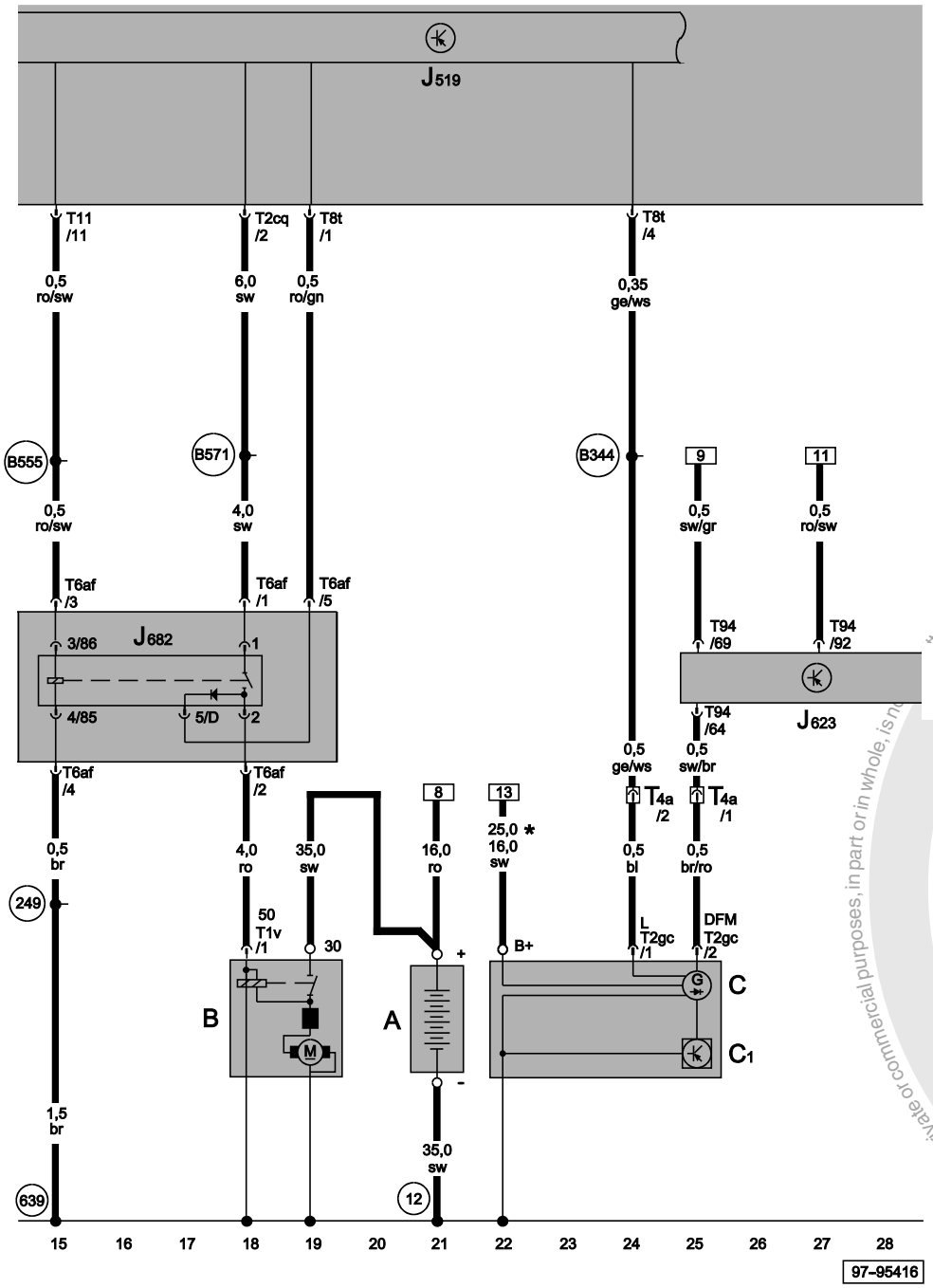


SB-fuses, Motronic current supply relay

J271	Motronic current supply relay
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
T11	11-pin connector, black
T16g	16-pin connector, black
T40	40-pin connector, under electronics box, in engine compartment
502	Screw connection 1 (30a), on relay plate
507	Screw connection (30), on fuse holder on battery
513	Screw connection 3 (30a), on relay plate
B231	Positive connection 5 (30a), in interior wiring harness
*	only models with 140 A alternator
**	from November 2005
***	up to November 2005
****	is dropped in vehicles models with 180 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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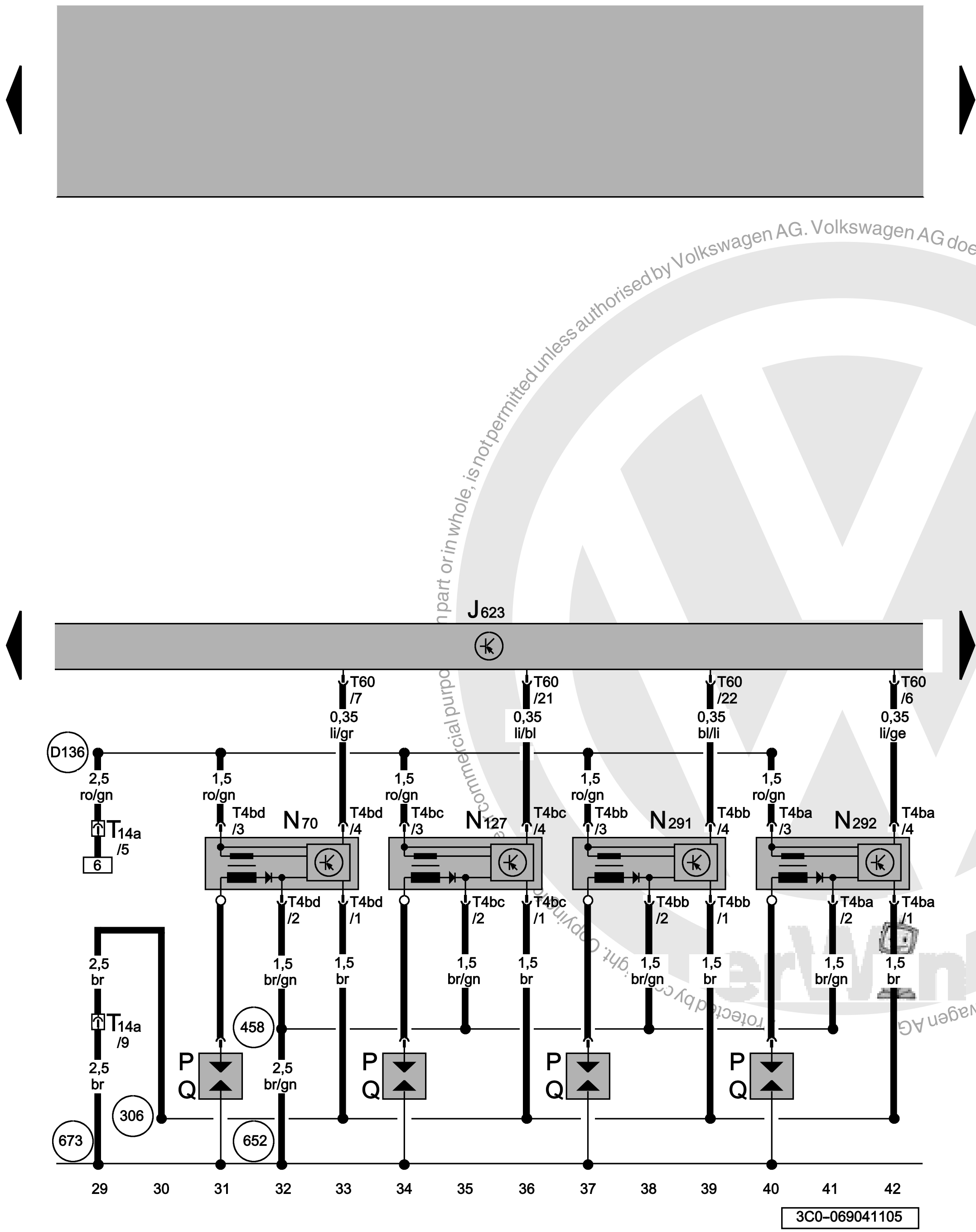


Terminals 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
T1v	Single connector
T2cq	2-pin connector, black
T2gc	2-pin connector
T4a	4-pin connector, near starter
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
T94	94-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	only models with 140 A alternator

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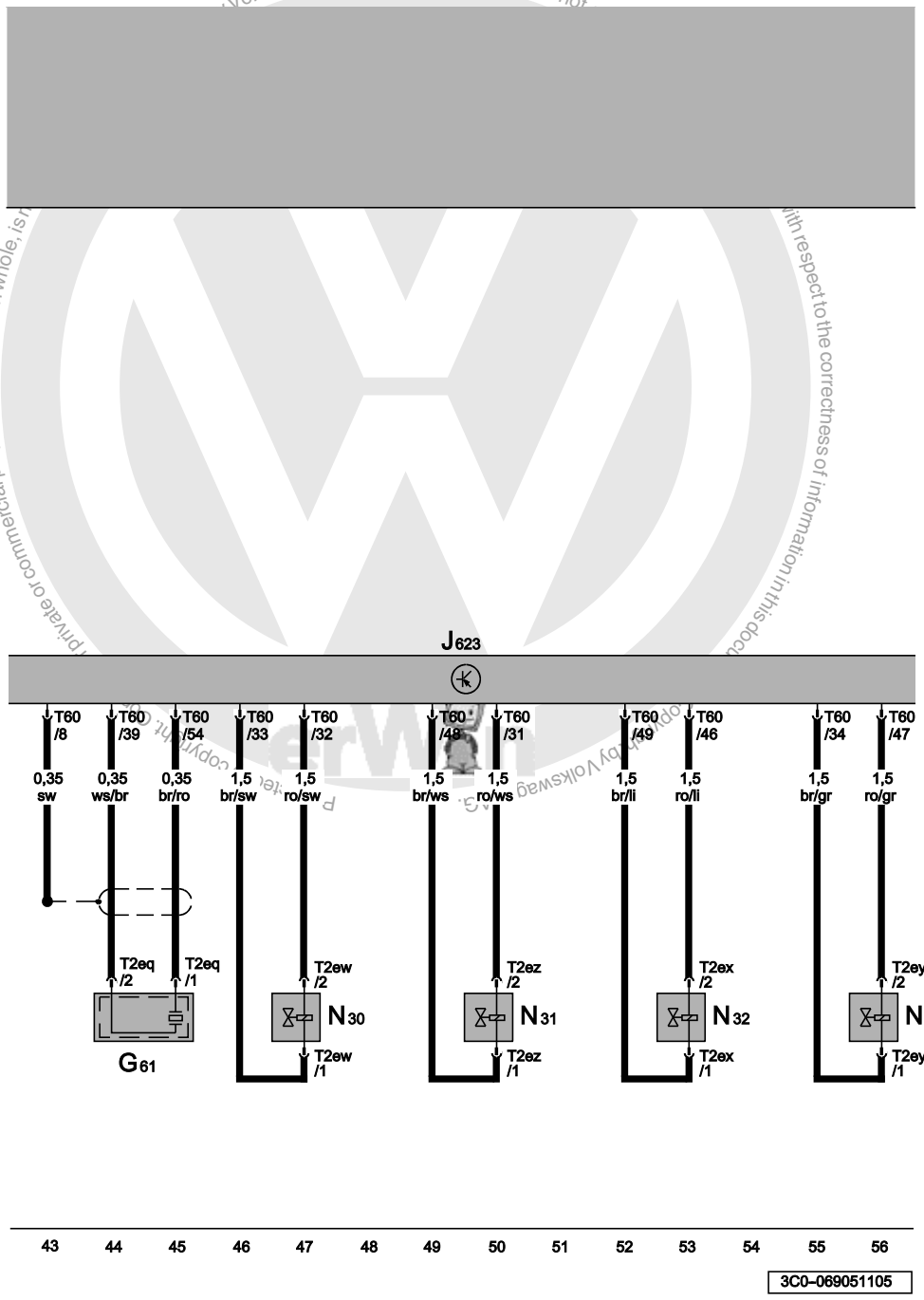
Engine control unit, ignition coils 1 to 4 with output stage, spark plugs, spark plug connector

J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4ba	4-pin connector, black
T4bb	4-pin connector, black
T4bc	4-pin connector, black
T4bd	4-pin connector, black
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T60	60-pin connector
306	Earth connection (ignition coils), in engine harness
458	Earth connection 3, in engine harness
652	Earth point for engine and gearbox earth
673	Earth point 3, on front of left longitudinal member
D136	Positive connection 2 (15a), in engine compartment wiring harness

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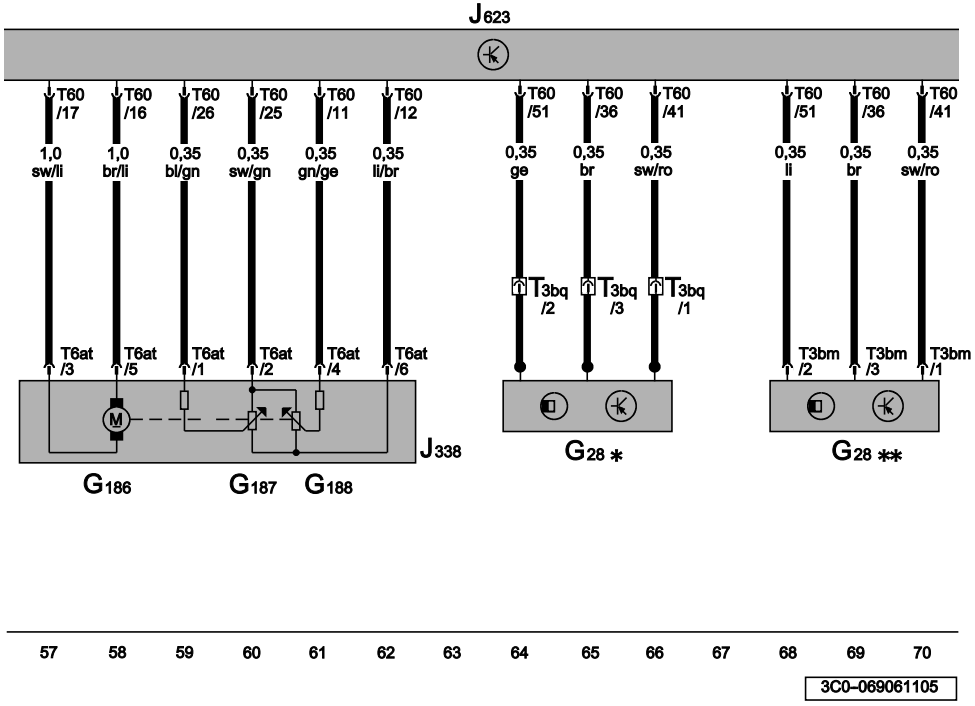
Engine control unit, knock sensor 1, injectors for cylinders 1 to 4

G61	Knock sensor 1
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T2eq	2-pin connector, black
T2ew	2-pin connector, purple
T2ex	2-pin connector, purple
T2ey	2-pin connector, purple
T2ez	2-pin connector, purple
T60	60-pin connector

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Engine control unit, throttle valve module, engine speed sender

G28	Engine speed sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J623	Engine control unit
T3bm	3-pin connector
T3bq	3-pin connector
T6at	6-pin connector
T60	60-pin connector
*	only models with manual gearbox
**	models with automatic gearbox only

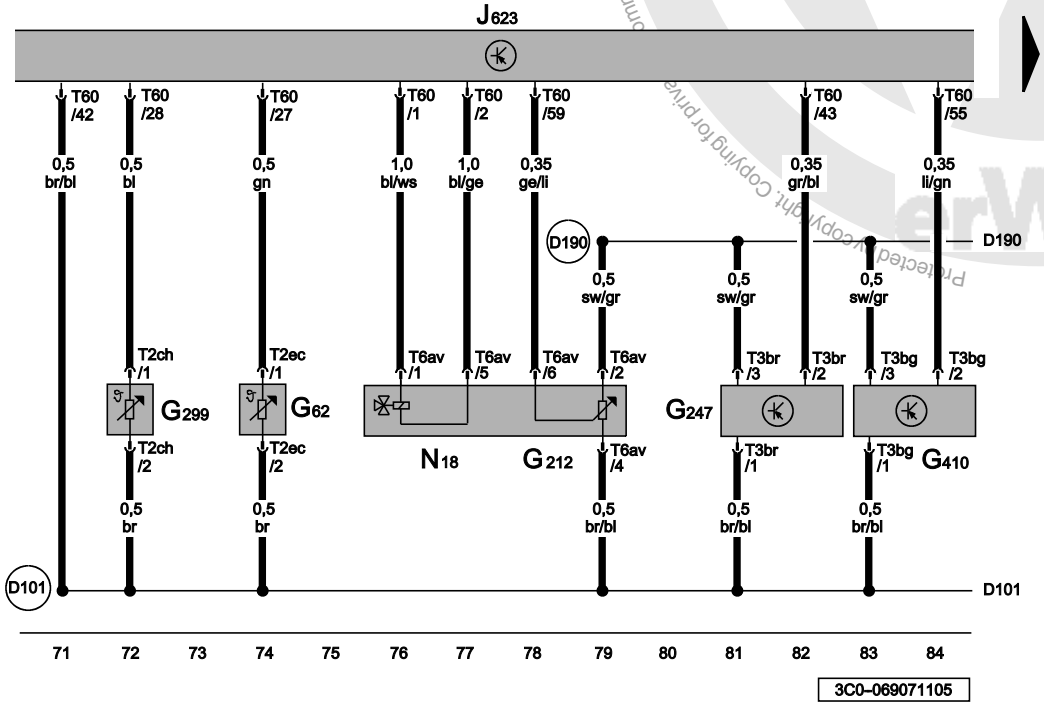


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Engine control unit, exhaust gas recirculation potentiometer, fuel pressure sender, coolant temperature sender, fuel pressure sender for low pressure

G62	Coolant temperature sender
G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
G299	Intake air temperature sender 2
G410	Fuel pressure sender for low pressure
J623	Engine control unit
N18	Exhaust gas recirculation valve
T2ch	2-pin connector, black
T2ec	2-pin connector, black
T3bg	3-pin connector, black
T3br	3-pin connector, purple
T6av	6-pin connector, grey
T60	60-pin connector
D101	Connection 1, in engine compartment wiring harness
D190	Earth connection 3 (5V), in engine wiring harness

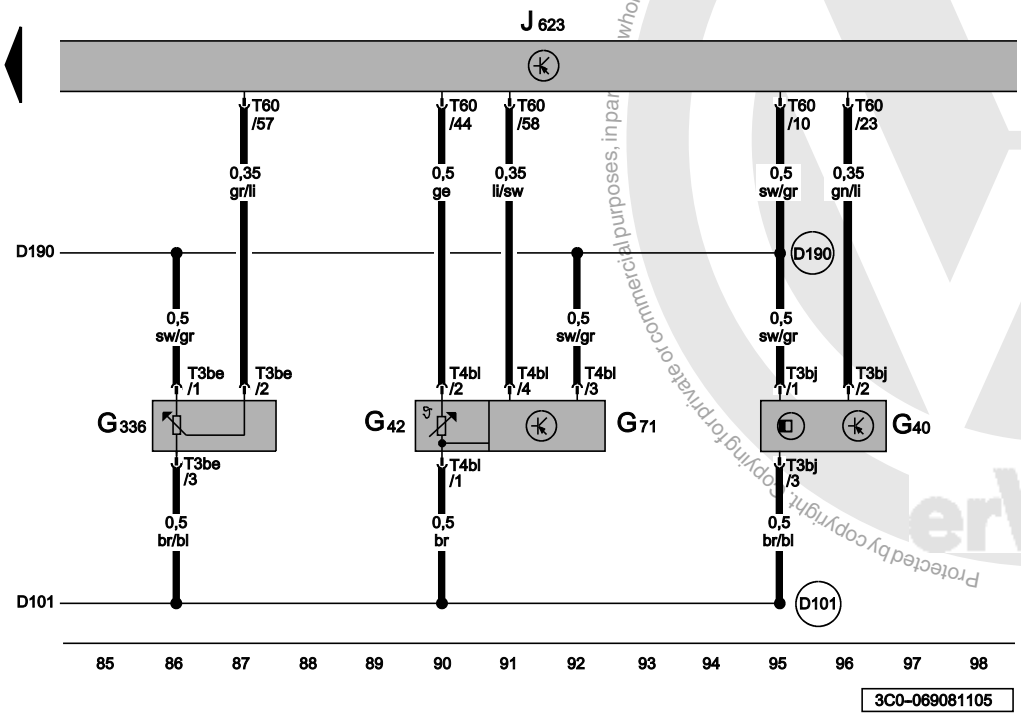


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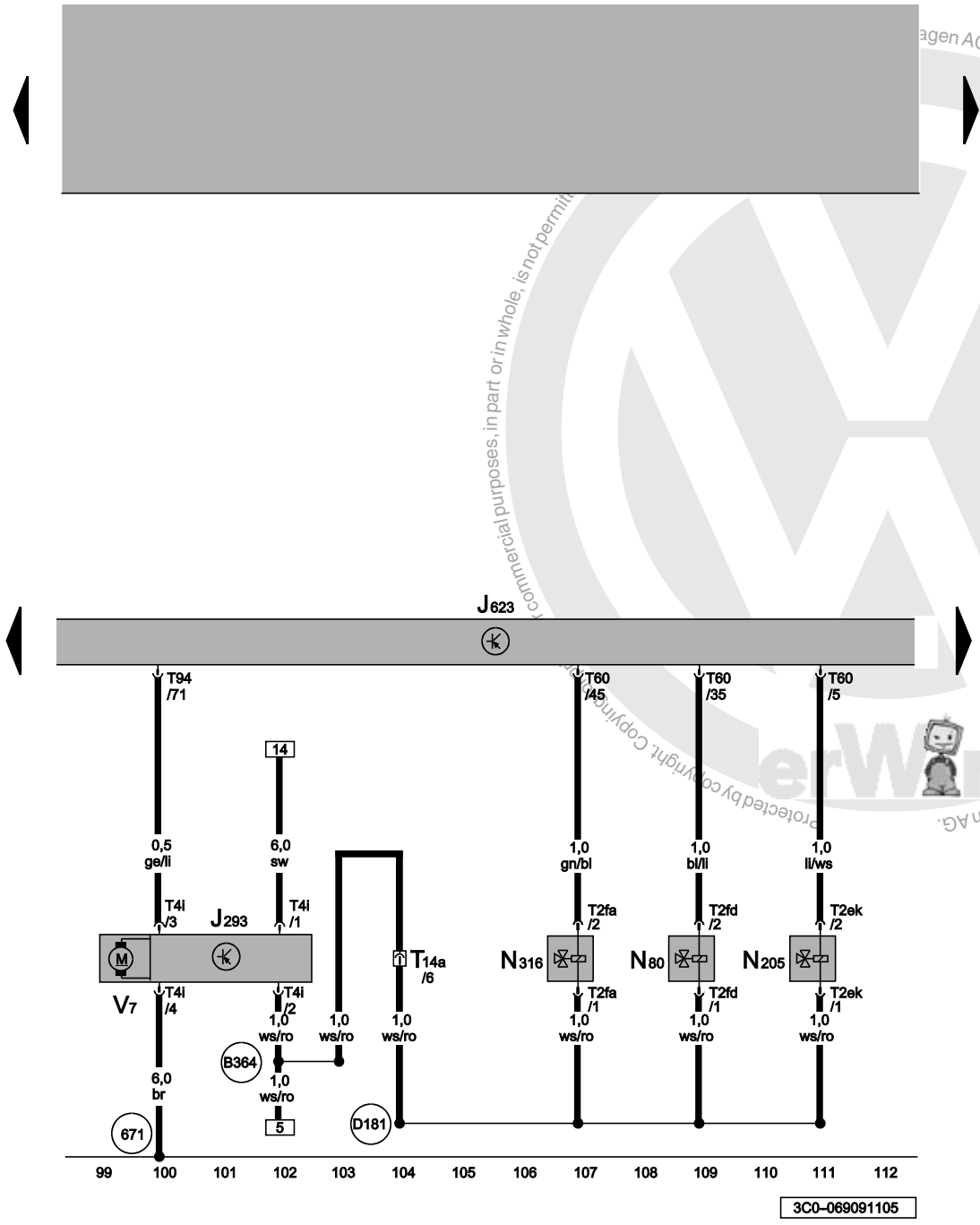
Engine control unit, Hall sender, intake air temperature sender, intake manifold pressure sender, intake manifold flap potentiometer

G40	Hall sender
G42	Intake air temperature sender
G71	Intake manifold pressure sender
G336	Intake manifold flap potentiometer
J623	Engine control unit
T3be	3-pin connector, black
T3bj	3-pin connector, black
T4bl	4-pin connector, black
T60	60-pin connector
D101	Connection 1, in engine compartment wiring harness
D190	Earth connection 3 (5V), in engine wiring harness



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Engine control unit, radiator fan control unit, active charcoal filter system solenoid valve 1, inlet camshaft control valve 1, intake manifold flap valve

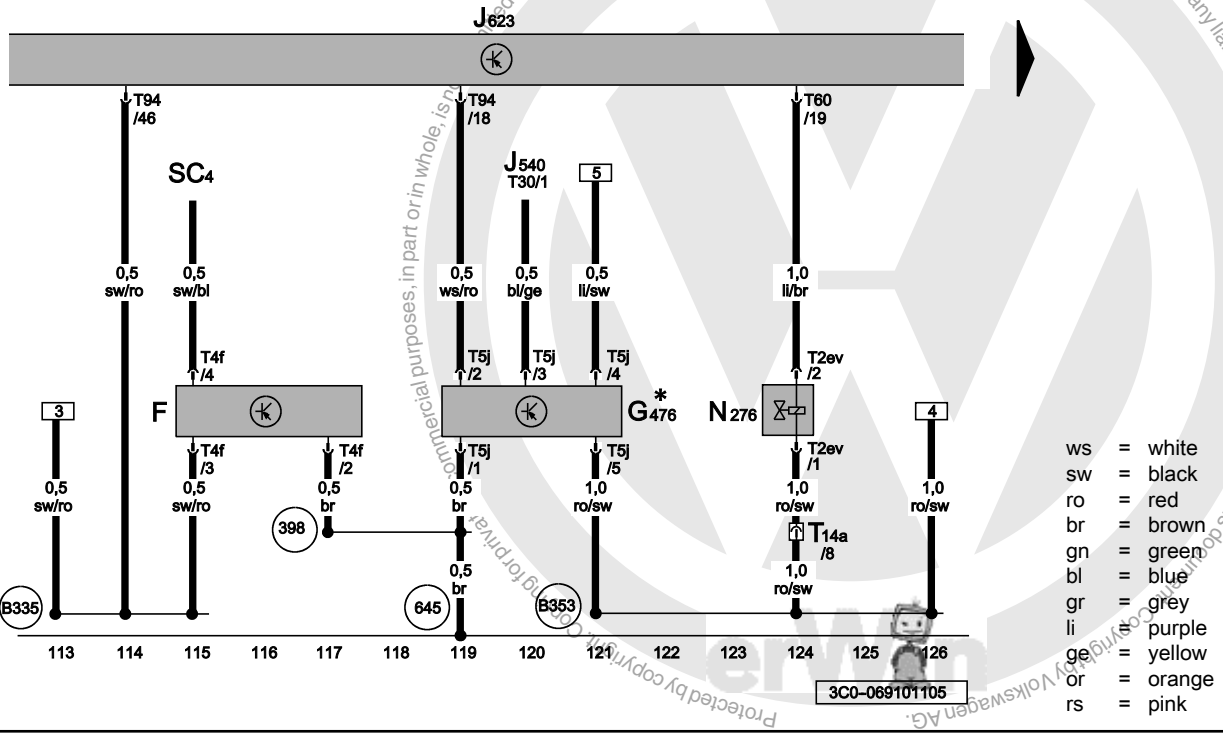
J293	Radiator fan control unit
J623	Engine control unit
N80	Activated charcoal filter system solenoid valve 1
N205	Inlet camshaft control valve 1
N316	Intake manifold flap valve
T2fa	2-pin connector, black
T2fd	2-pin connector, black
T2ek	2-pin connector, black
T4i	4-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
671	Earth point 1, on front of left longitudinal member
B364	Positive connection 15 (87a), in main wiring harness
D181	Connection 2 (87a), in engine compartment wiring harness

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Engine control unit, fuel pressure regulating valve, clutch position sender, brake light switch

F	Brake light switch
G476	Clutch position sender
J540	Electric park and handbrake control unit
J623	Engine control unit
N276	Fuel pressure regulating valve
SC4	Fuse 4 on fuse holder C
T2ev	2-pin connector, blue
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B353	Positive connection 4 (87a), in main wiring harness
*	only models with manual gearbox

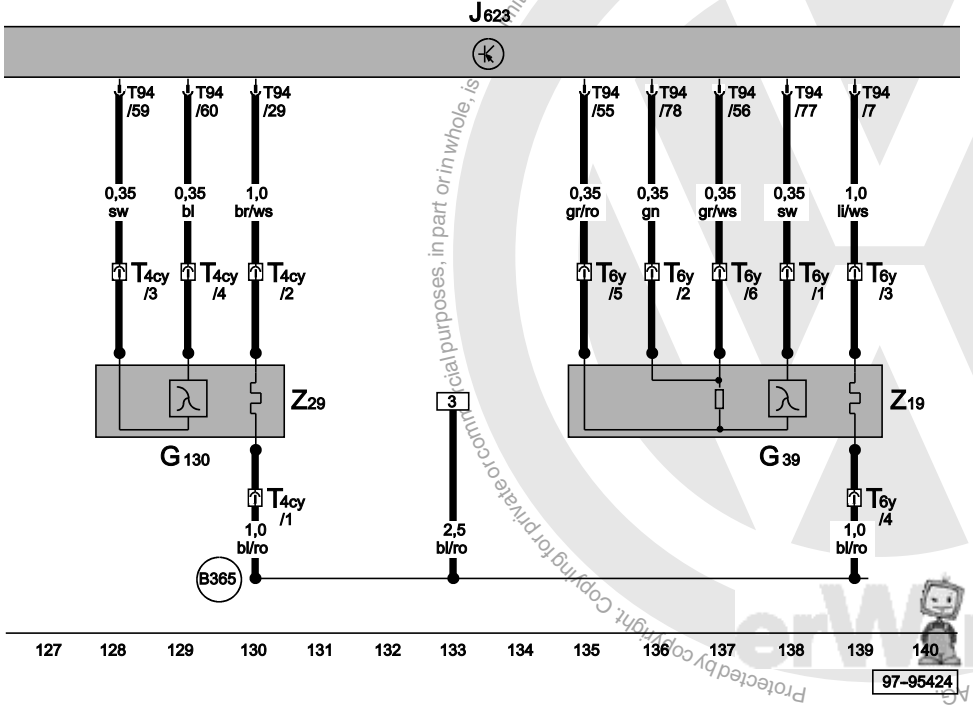


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Engine control unit, lambda probe, lambda probe heater, lambda probe heater after catalytic converter, lambda probe 1 heater after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J623	Engine control unit
T4cy	4-pin connector, black, coupling point lambda probe
T6y	6-pin connector, black, coupling point lambda probe
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
B365	Positive connection 16 (87a), in main wiring harness

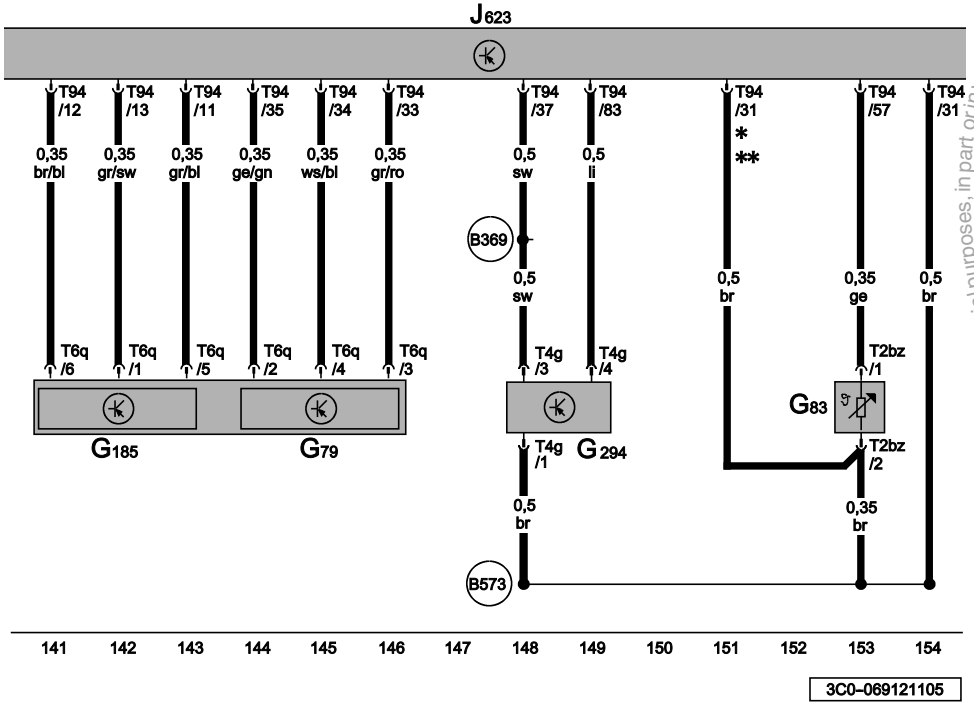


ws = white
sw = black
ro = red
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gn = green
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gr = grey
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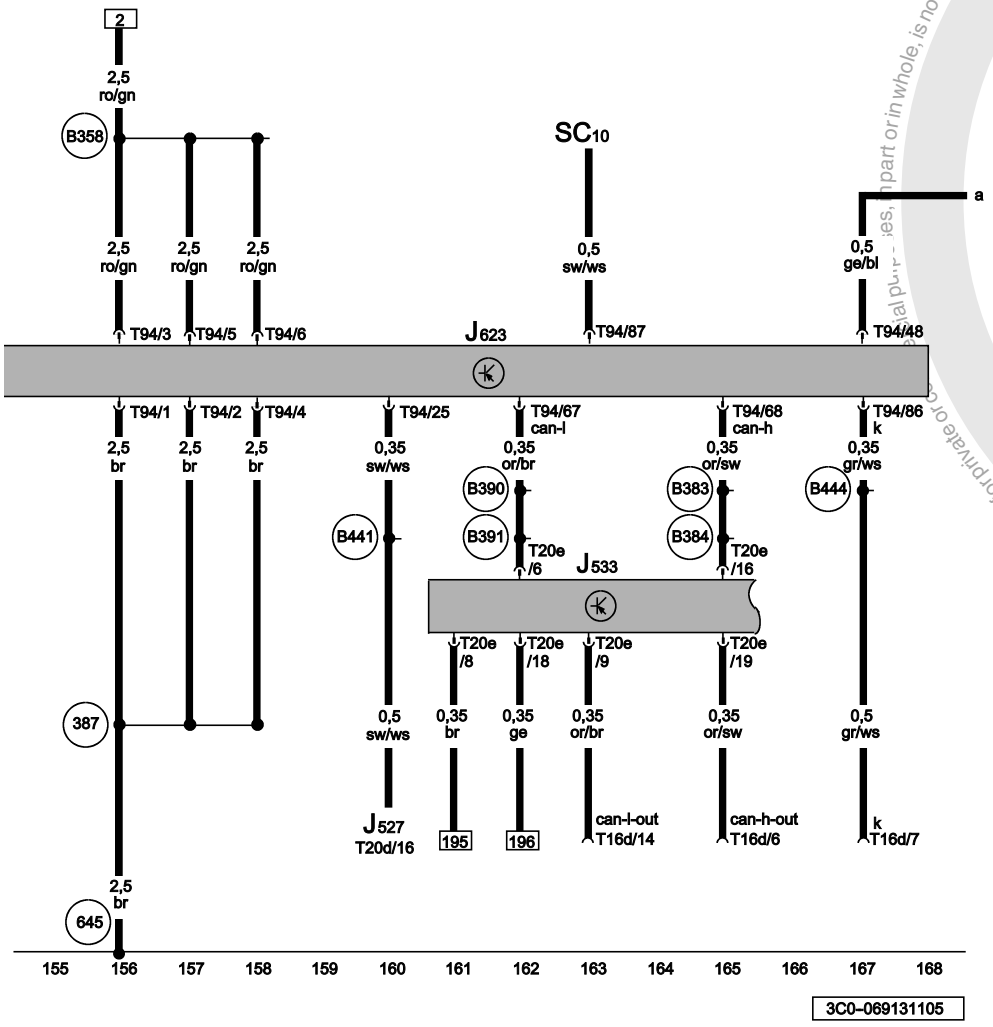
Engine control unit, brake servo pressure sensor, accelerator position sender, accelerator position sender 2, radiator outlet coolant temperature sender

G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
G294	Brake servo pressure sensor
J623	Engine control unit
T2bz	2-pin connector
T4g	4-pin connector
T6q	6-pin connector
T94	94-pin connector
B369	Connection 1 (5V), in main wiring harness
B573	Connection 40, in main wiring harness
*	models with automatic gearbox only
**	from November 2005



ws	=	white
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Engine control unit, data bus diagnostic interface, self-diagnosis connection

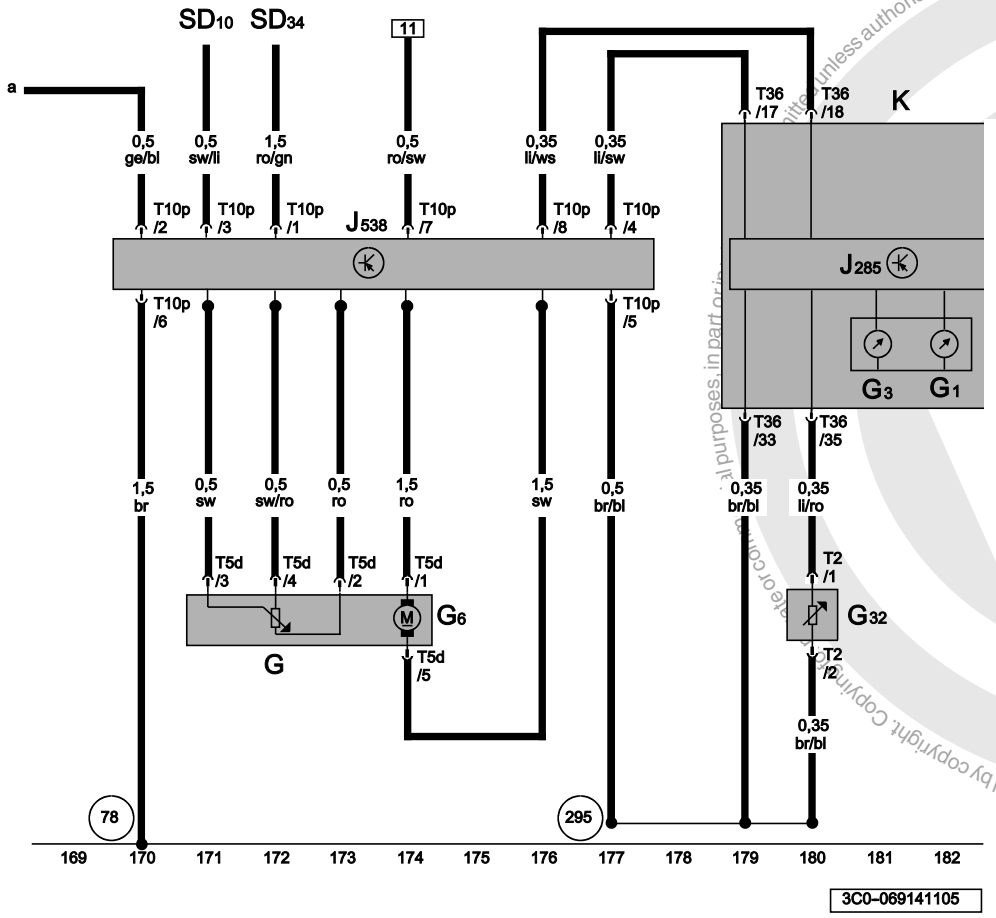
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J623	Engine control unit
SC10	Fuse 10 on fuse holder C
T16d	16-pin connector, self-diagnosis connection
T20d	20-pin connector
T20e	20-pin connector
T94	94-pin connector
387	Earth connection 22, in main wiring harness
645	Earth point 1, on bulkhead
B358	Positive connection 9 (87a), in main wiring harness
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

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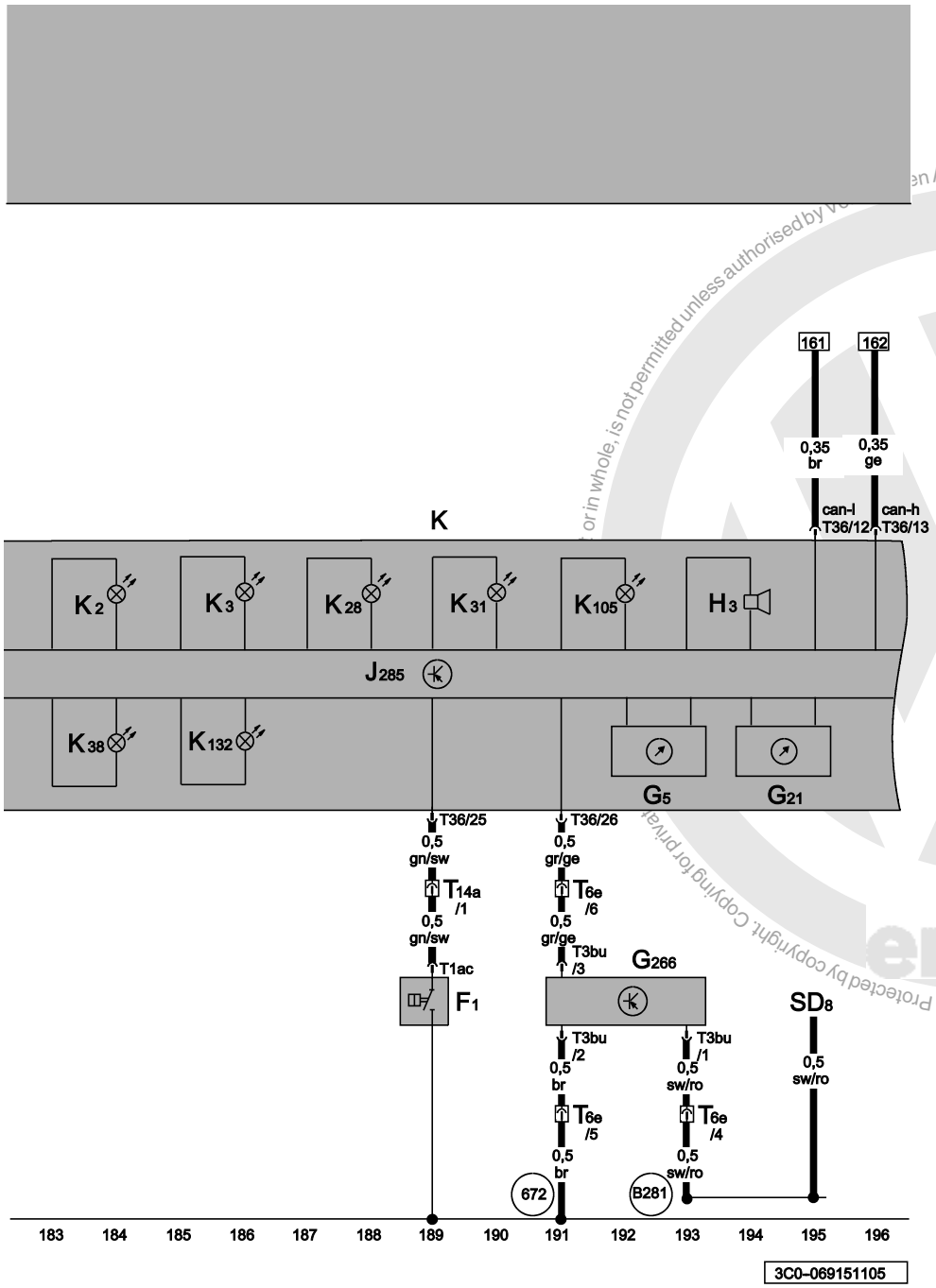
Fuel pump control unit, dash panel insert, fuel gauge, coolant shortage indicator sender, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G6	Fuel system pressurisation pump
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
J538	Fuel pump control unit
K	Dash panel insert
SD10	Fuse 10 on fuse holder D
SD34	Fuse 34 on fuse holder D
T2	2-pin connector
T5d	5-pin connector
T10p	10-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness



ws	=	white
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Dash panel insert, warning lamps, oil pressure switch, buzzer or gong, oil level and oil temperature sender, rev. counter, speedometer

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness

ws	=	white
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2.0 l/110 kW Motronic, engine codes BLR, BLY, BLX
from May 2005

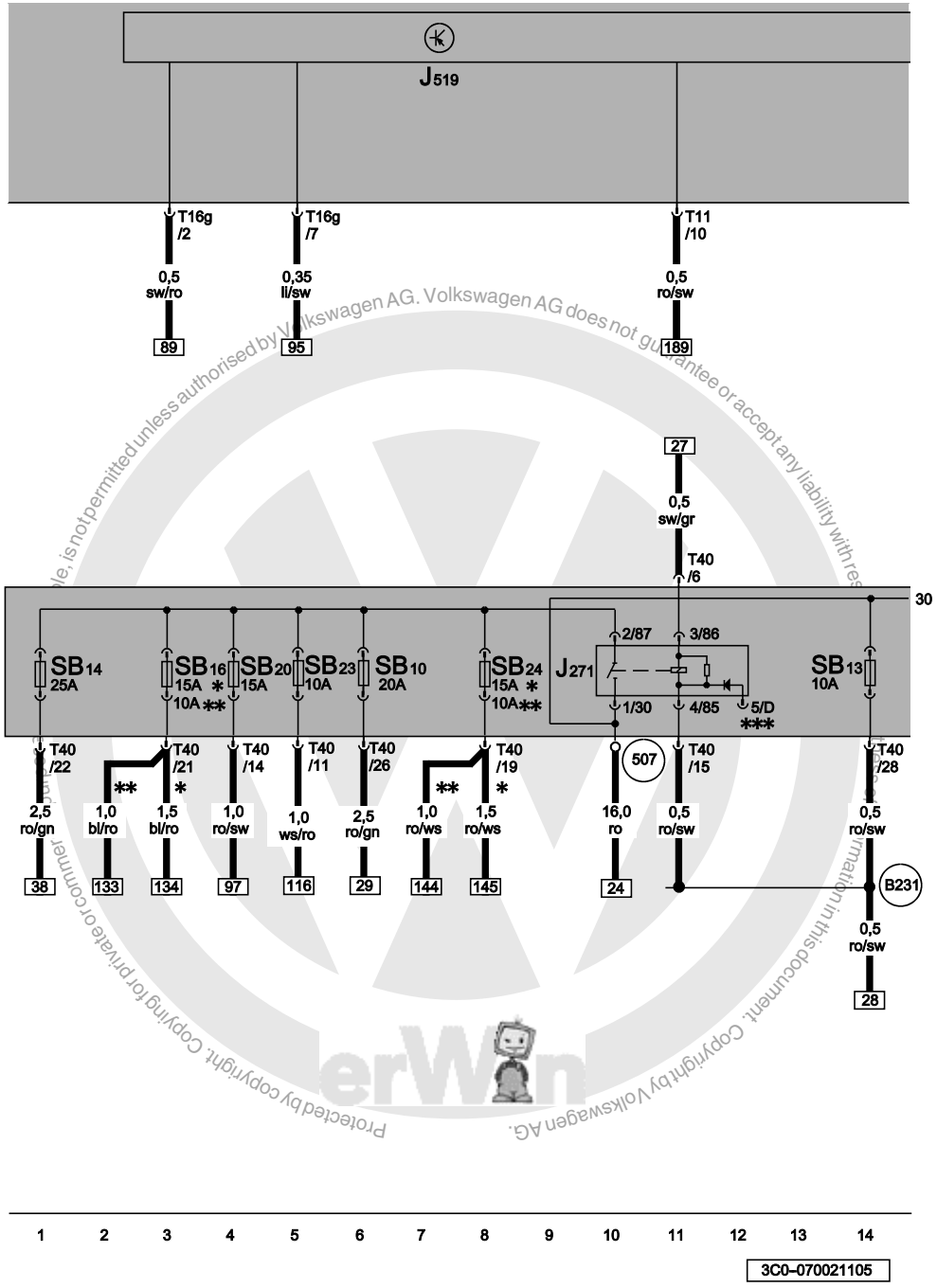
2.0 l/110 kW Motronic, engine codes BVX, BVY, BVZ
from November 2005

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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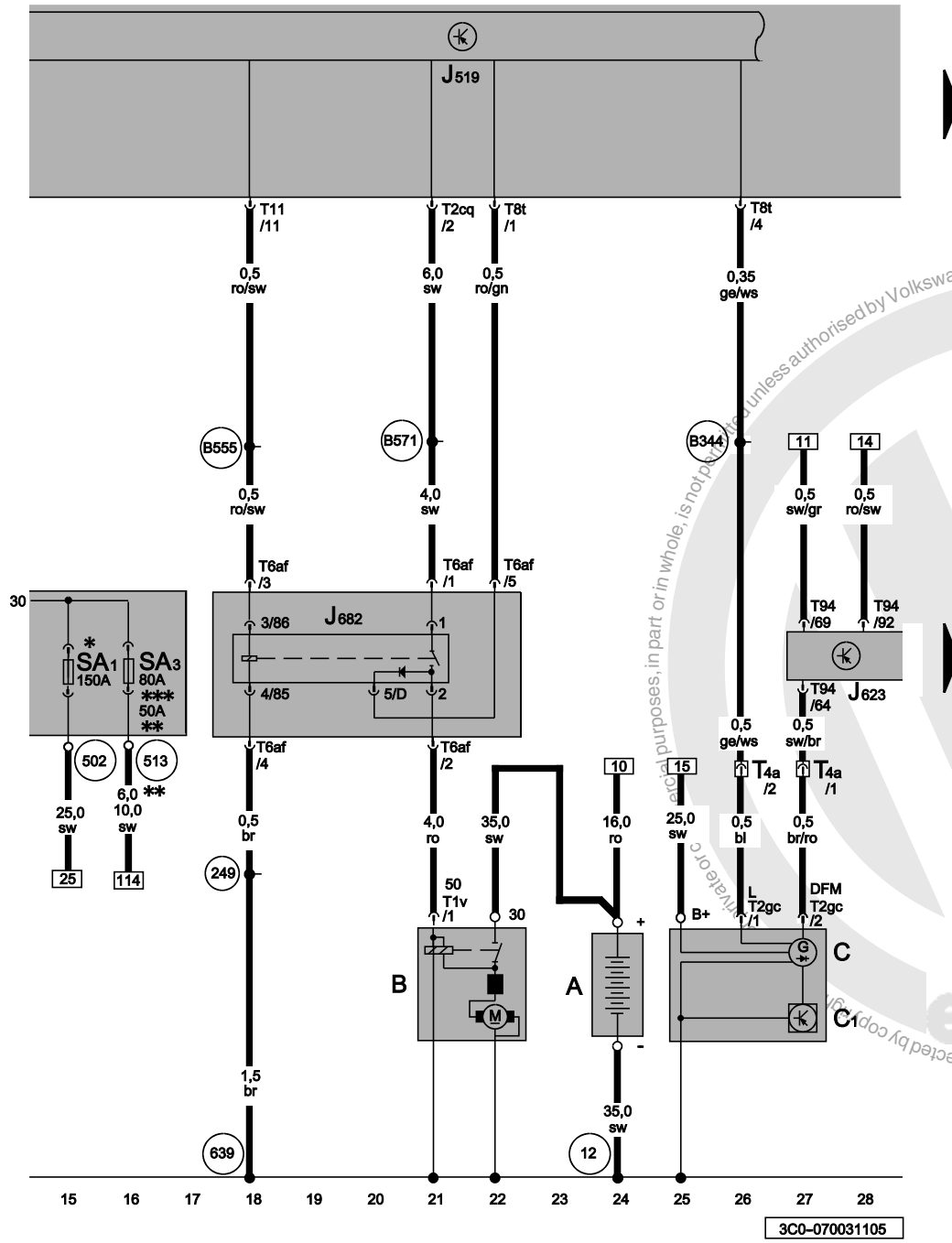


SB-fuses, Motronic current supply relay

J271	Motronic current supply relay
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
T11	11-pin connector, black
T16g	16-pin connector, black
T40	40-pin connector, under electronics box, in engine compartment
507	Screw connection (30), on fuse holder on battery
B231	Positive connection 5 (30a), in interior wiring harness
*	only models with engine codes BLR, BLX, BVX, BVY
**	for models with engine code BLY, BVZ only
***	up to November 2005

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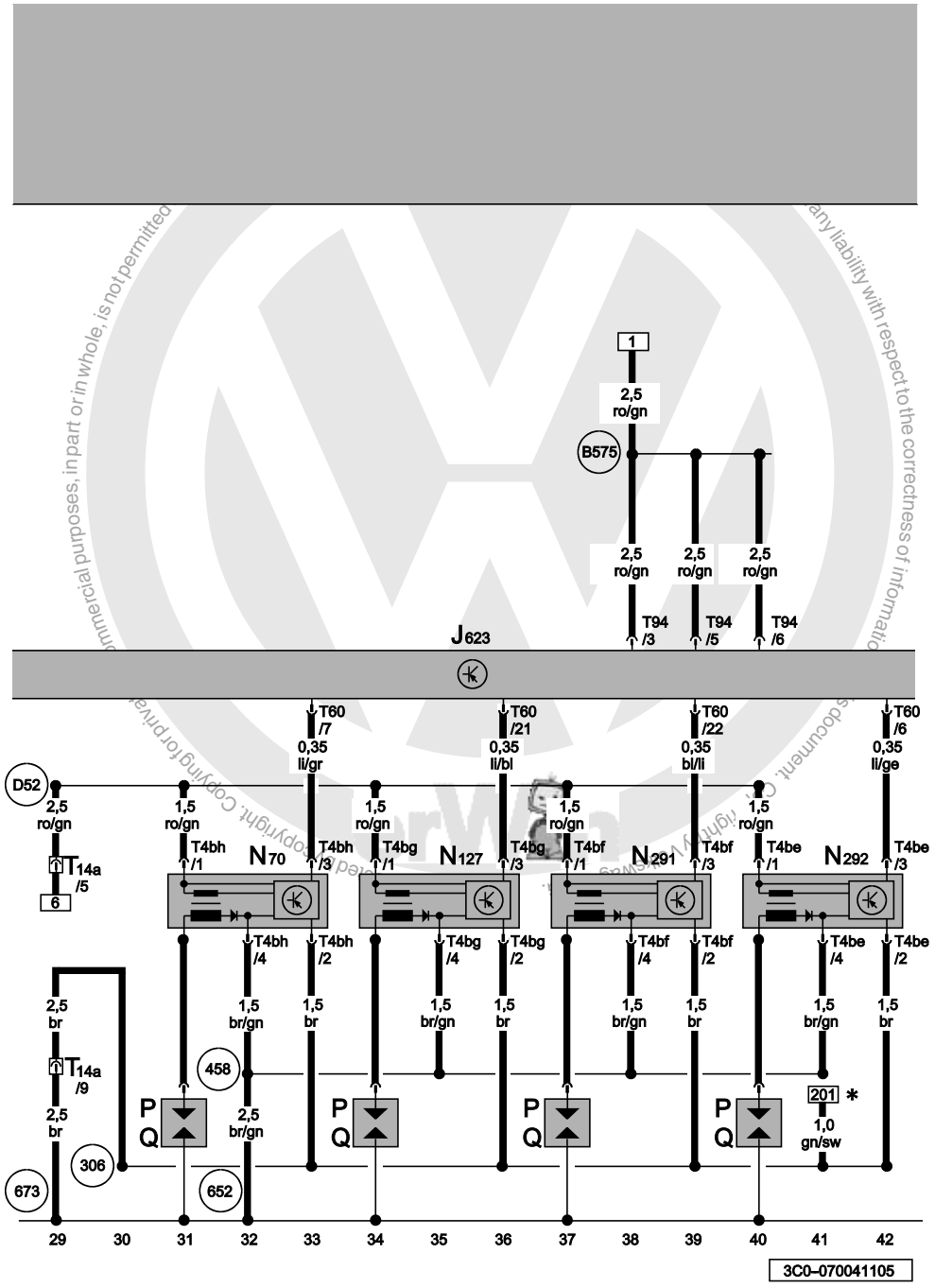


Terminals 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
T1v	Single connector
T2cq	2-pin connector, black
T2gc	2-pin connector
T4a	4-pin connector, near starter
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
T94	94-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
502	Screw connection 1 (30a), on relay plate
513	Screw connection 3 (30a), on relay plate
639	Earth point, left A-pillar
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	is dropped in vehicles models with 180 A alternator
**	from November 2005
***	up to November 2005

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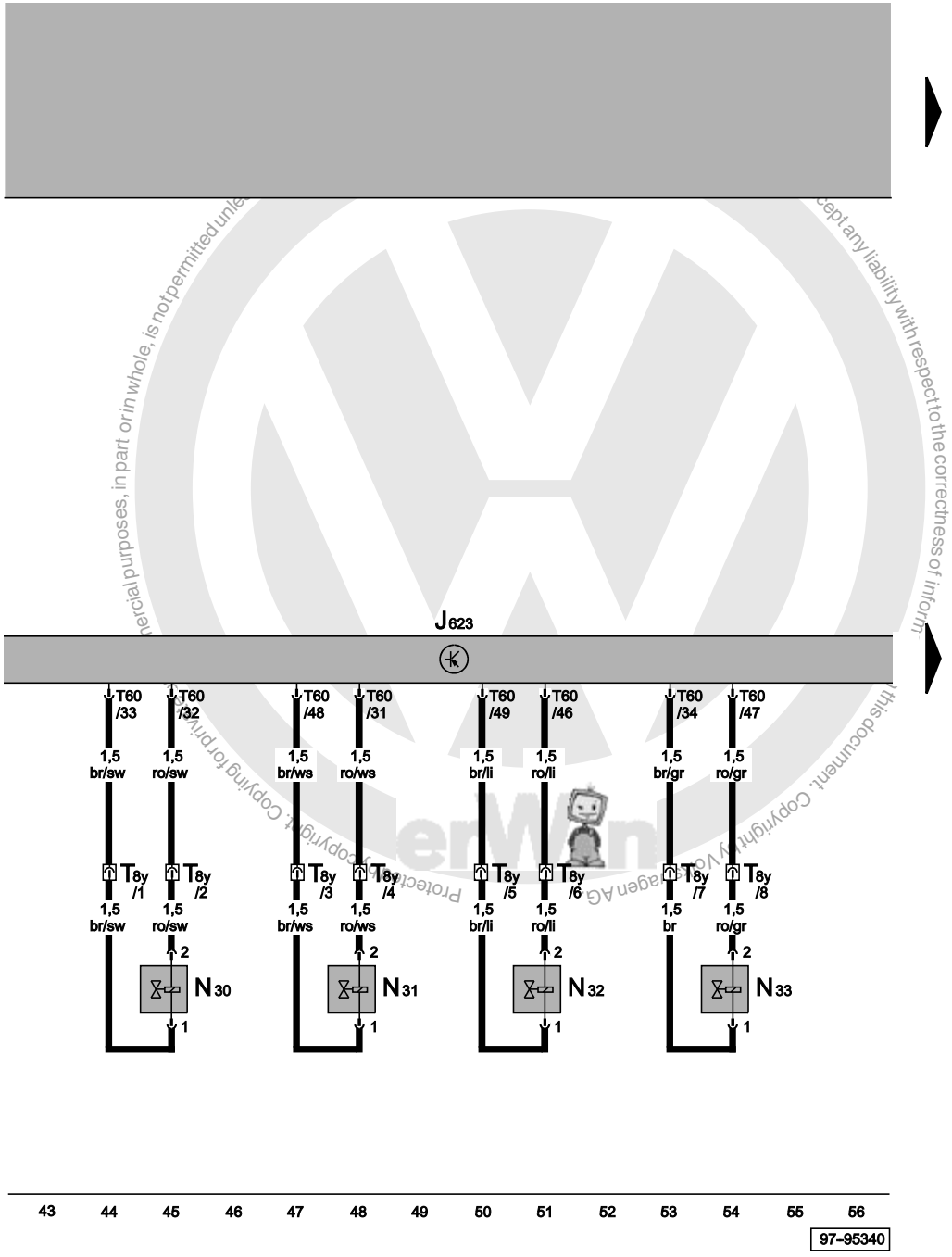
Engine control unit, ignition coils 1 to 4 with output stage, spark plugs, spark plug connector

J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4be	4-pin connector
T4bf	4-pin connector
T4bg	4-pin connector
T4bh	4-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T60	60-pin connector
T94	94-pin connector
306	Earth connection (ignition coils), in engine harness
458	Earth connection 3, in engine harness
652	Earth point for engine and gearbox earth
673	Earth point 3, on front of left longitudinal member
B575	Positive connection 21 (87a), in main wiring harness
D52	Positive connection (15a), in engine compartment wiring harness
*	from November 2005

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Engine control unit, injectors for cylinders 1-4

J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8y	8-pin connector, near cylinder head
T60	60-pin connector

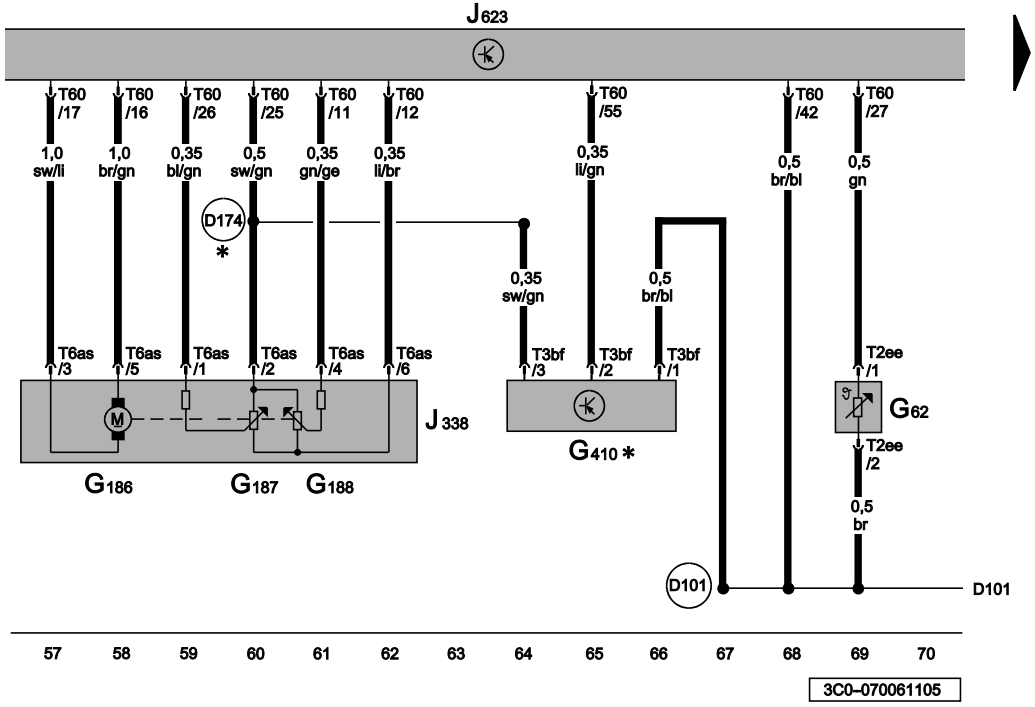


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Engine control unit, throttle valve module, fuel pressure sender for low pressure, coolant temperature sender

G62	Coolant temperature sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
G410	Fuel pressure sender for low pressure
J338	Throttle valve module
J623	Engine control unit
T2ee	2-pin connector
T3bf	3-pin connector
T6as	6-pin connector
T60	60-pin connector
D101	Connection 1, in engine compartment wiring harness
D174	Earth connection 2 (5V), in engine wiring harness
*	up to November 2005 for engine codes BLR, BLX and BLY

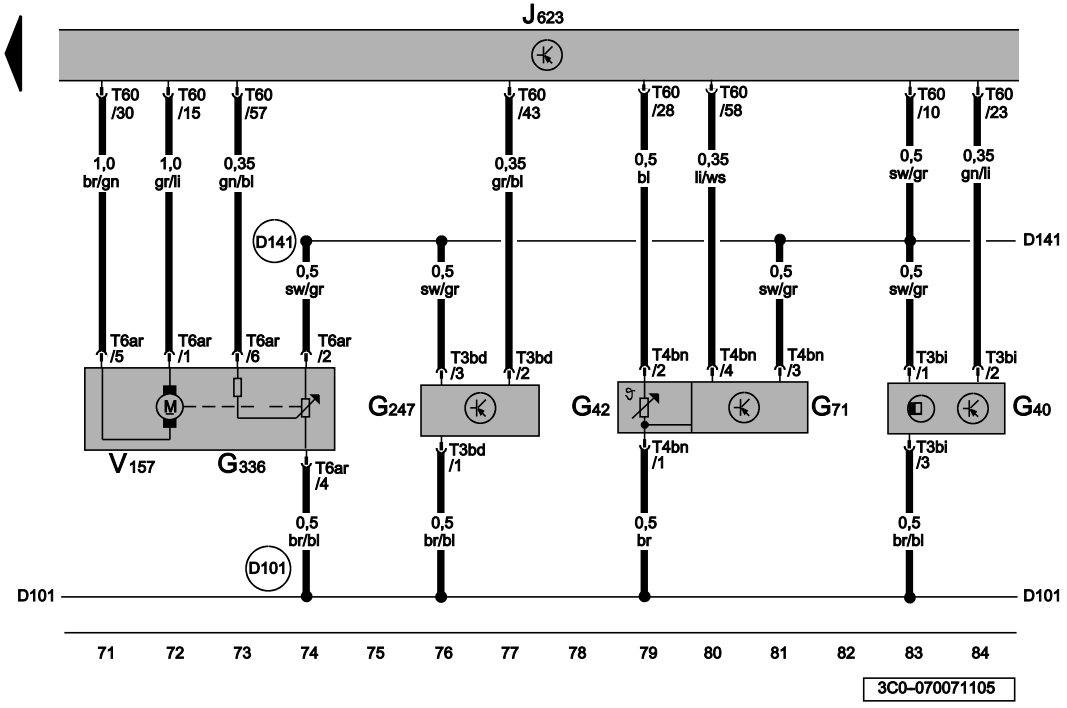


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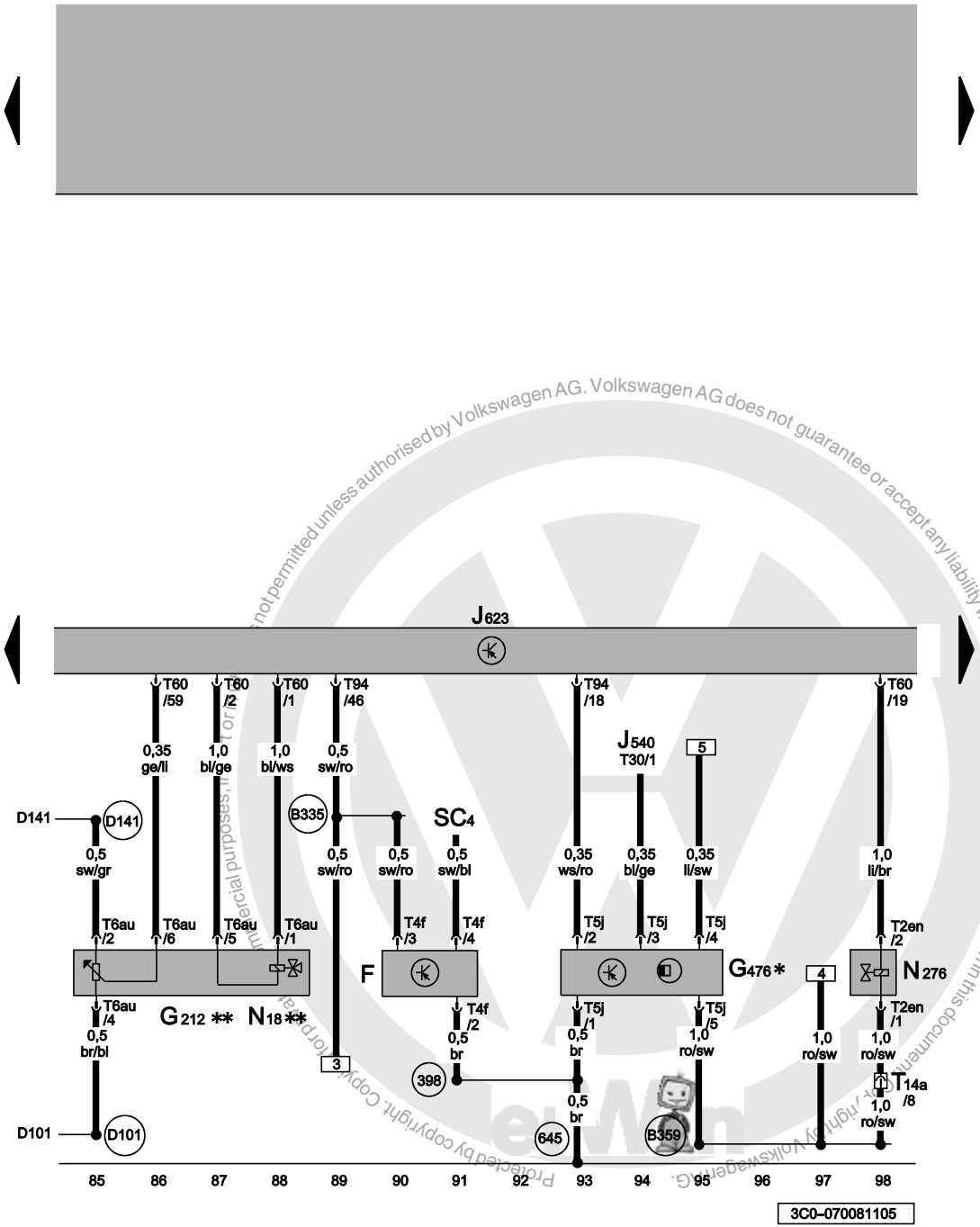
Engine control unit, intake manifold flap potentiometer, fuel pressure sender, fuel pressure sender, Hall sender, intake manifold pressure sender

G40	Hall sender
G42	Intake air temperature sender
G71	Intake manifold pressure sender
G247	Fuel pressure sender
G336	Intake manifold flap potentiometer
J623	Engine control unit
T3bd	3-pin connector, purple
T3bi	3-pin connector, black
T4bn	4-pin connector, black
T6ar	6-pin connector, grey
T60	60-pin connector
V157	Intake manifold flap motor
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness



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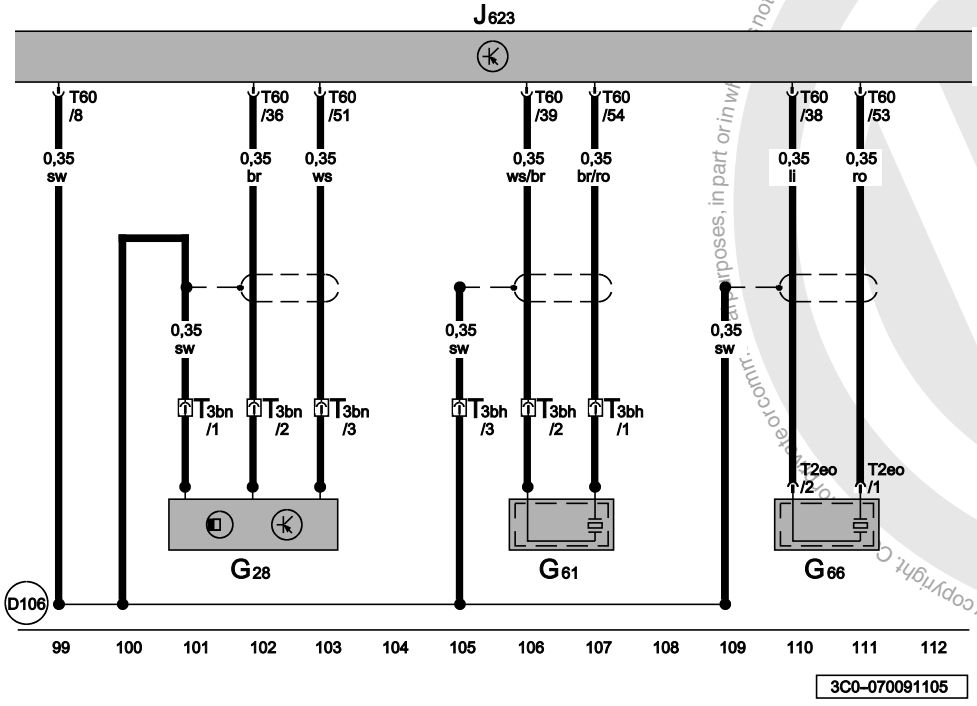
Engine control unit, fuel pressure regulating valve, clutch position sender, brake light switch, exhaust gas recirculation potentiometer, exhaust gas recirculation valve

F	Brake light switch
G212	Exhaust gas recirculation potentiometer
G476	Clutch position sender
J540	Electric park and handbrake control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
N276	Fuel pressure regulating valve
SC4	Fuse 4 on fuse holder C
T2en	2-pin connector, blue
T4f	4-pin connector
T5j	5-pin connector
T6au	6-pin connector, grey
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B359	Positive connection 10 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V), in engine wiring harness
*	only models with manual gearbox
**	only models with engine codes BLR and BLX, BVX, BVY

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Engine control unit, engine speed sender, knock sensors 1 and 2

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J623	Engine control unit
T2eo	2-pin connector, black
T3bh	3-pin connector, black
T3bn	3-pin connector, grey
T60	60-pin connector
D106	Connection 4, in engine compartment wiring harness

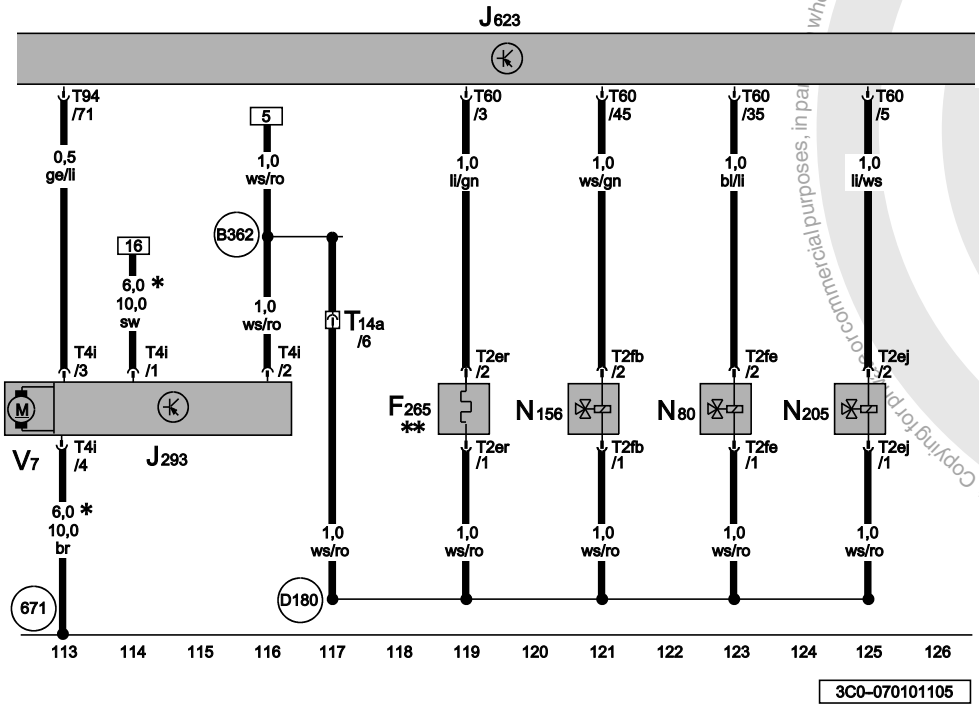


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Engine control unit, radiator fan control unit, active charcoal filter system solenoid valve 1, variable camshaft timing valve -1-, map-controlled engine cooling system thermostat

F265	Map-controlled engine cooling system thermostat
J293	Radiator fan control unit
J623	Engine control unit
N80	Activated charcoal filter system solenoid valve 1
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve 1
T2fb	2-pin connector
T2fe	2-pin connector
T2ej	2-pin connector
T2er	4-pin connector
T4i	4-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
671	Earth point 1, on front of left longitudinal member
B362	Positive connection 13 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness
*	from November 2005
**	up to November 2005

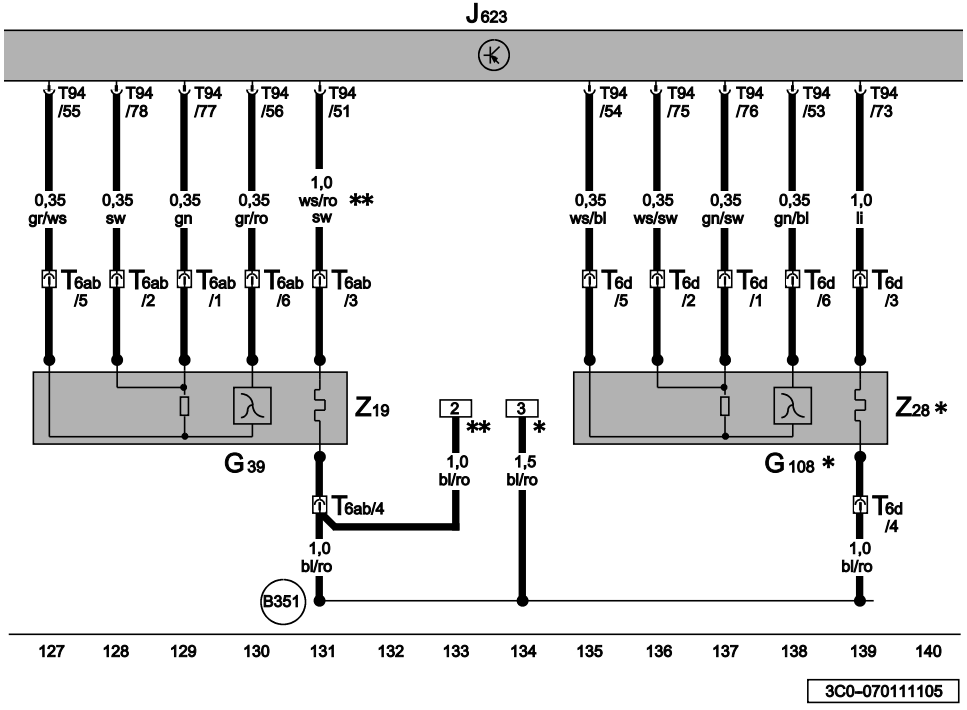


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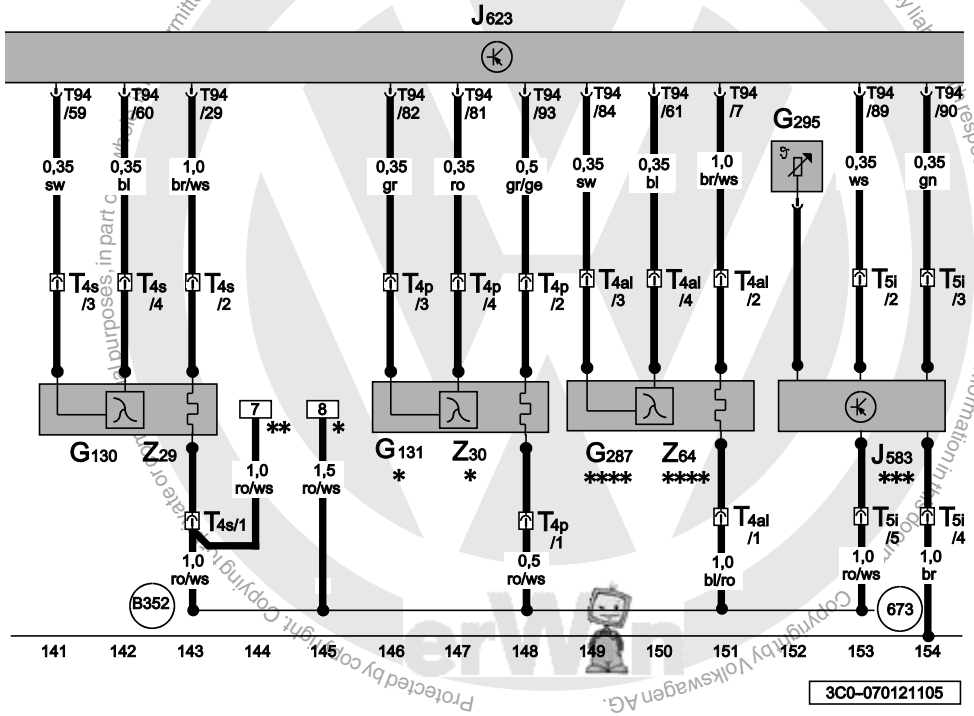
Engine control unit, lambda probe, lambda probe heater, lambda probe 2, lambda probe 2 heater 2

G39	Lambda probe
G108	Lambda probe 2
J623	Engine control unit
T6ab	6-pin connector, black, coupling point lambda probe
T6d	6-pin connector, black, coupling point lambda probe
T94	94-pin connector
Z19	Lambda probe heater
Z28	Lambda probe 2 heater
(B351)	Positive connection 2 (87a), in main wiring harness
*	only models with engine codes BLR, BLX, BVX, BVY
**	for models with engine code BLY, BVZ only



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Engine control unit, lambda probe after catalytic converter, NOx sensor control unit, lambda probe 2 and 3 after catalytic converter, lambda probe 1-3 heater after catalytic converter

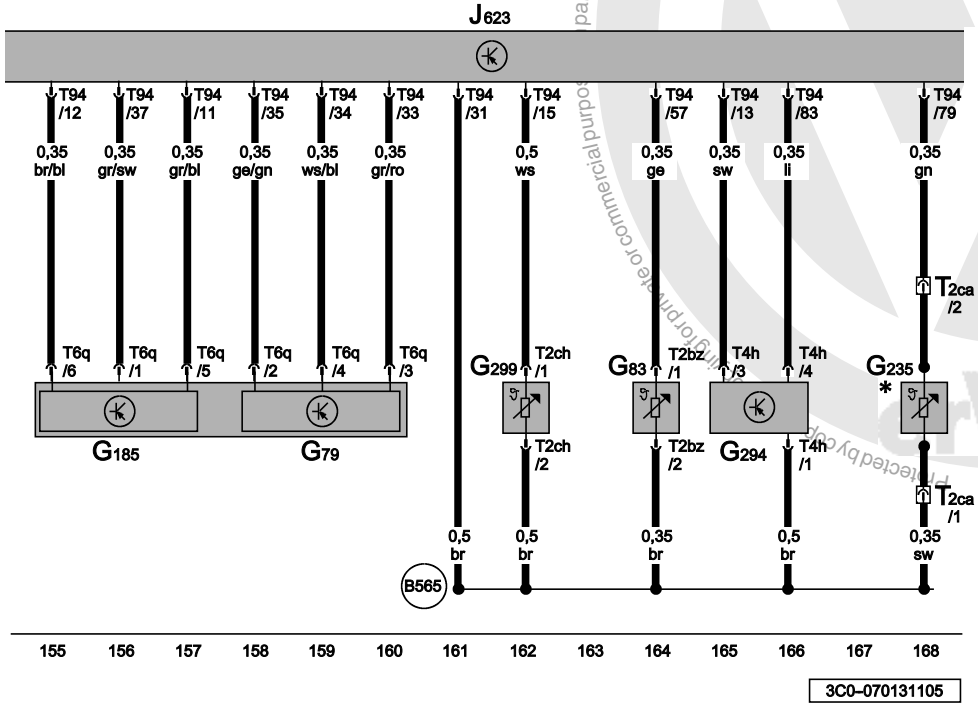
G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter
G287	Lambda probe 3 after catalytic converter
G295	NOx sender
J623	Engine control unit
J583	NOx sensor control unit
T4al	4-pin connector, connector point lambda probe
T4p	4-pin connector, connector point lambda probe
T4s	4-pin connector, connector point lambda probe
T5i	5-pin connector, black, underbody, on auxiliary carrier, on the right
T94	94-pin connector
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
Z64	Lambda probe 3 heater after catalytic converter
673	Earth point 3, on front of left longitudinal member
B352	Positive connection 3 (87a), in main wiring harness
*	only models with engine codes BLR, BLX
**	for models with engine code BLY, BVZ only
***	only models with engine codes BLX, BVX
****	only models with engine codes BLR, BVY

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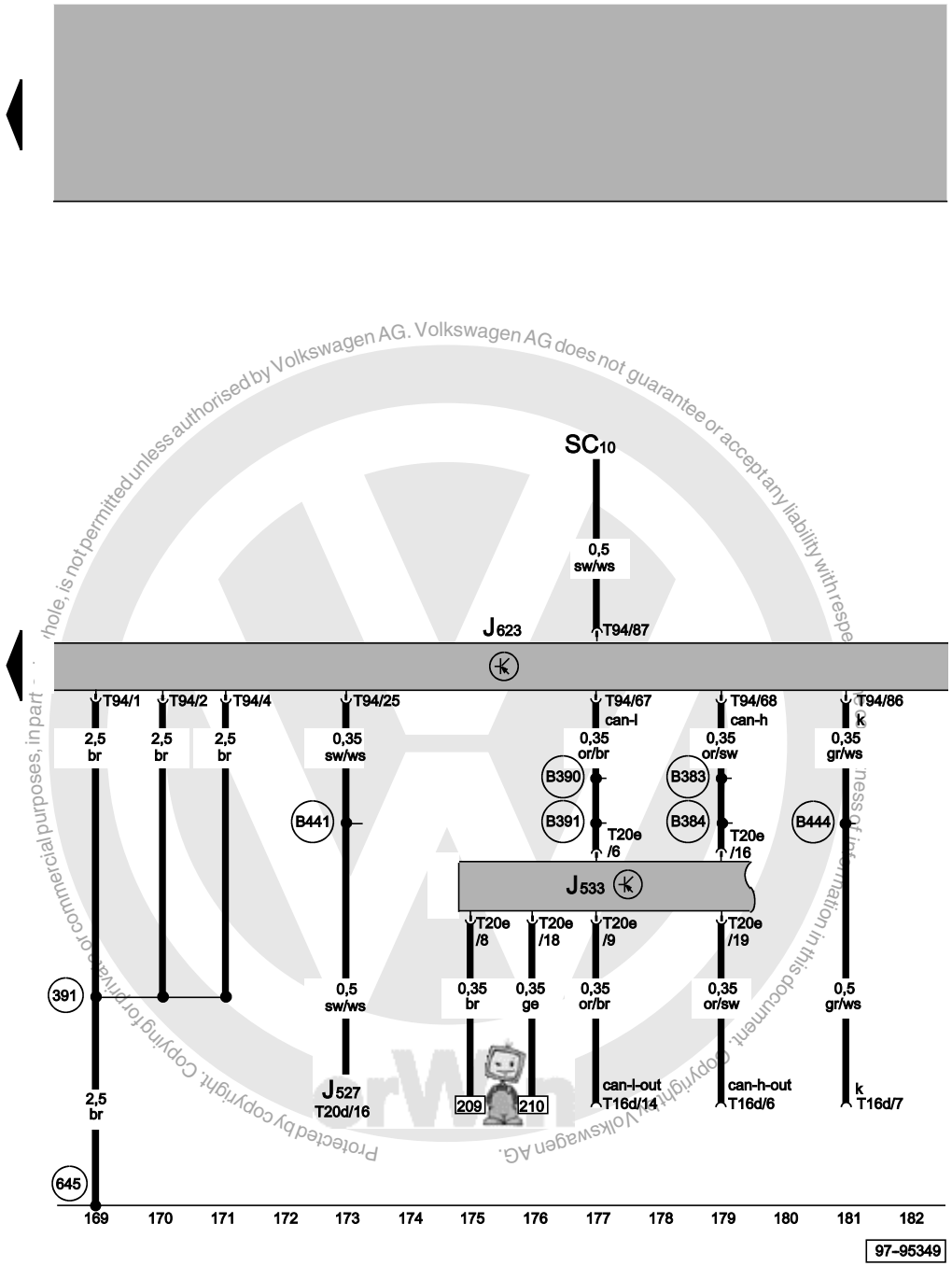
Engine control unit, accelerator position sender, brake servo pressure sensor, catalytic converter temperature sensor 1, radiator outlet coolant temperature sender, intake air temperature sender 2

G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
G235	Exhaust gas temperature sender 1
G294	Brake servo pressure sensor
G299	Intake air temperature sender 2
J623	Engine control unit
T2bz	2-pin connector
T2ca	2-pin connector, black, coupling point lambda probe
T2ch	2-pin connector
T4h	4-pin connector
T6q	6-pin connector
T94	94-pin connector
B565	Connection 32, in main wiring harness
*	only models with engine codes BLX, BVX



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Engine control unit, data bus diagnostic interface, self-diagnosis connection

J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J623	Engine control unit
SC10	Fuse 10 on fuse holder C
T16d	16-pin connector, self-diagnosis connection
T20d	20-pin connector
T20e	20-pin connector
T94	94-pin connector
391	Earth connection 26, in main wiring harness
645	Earth point 1, on bulkhead
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

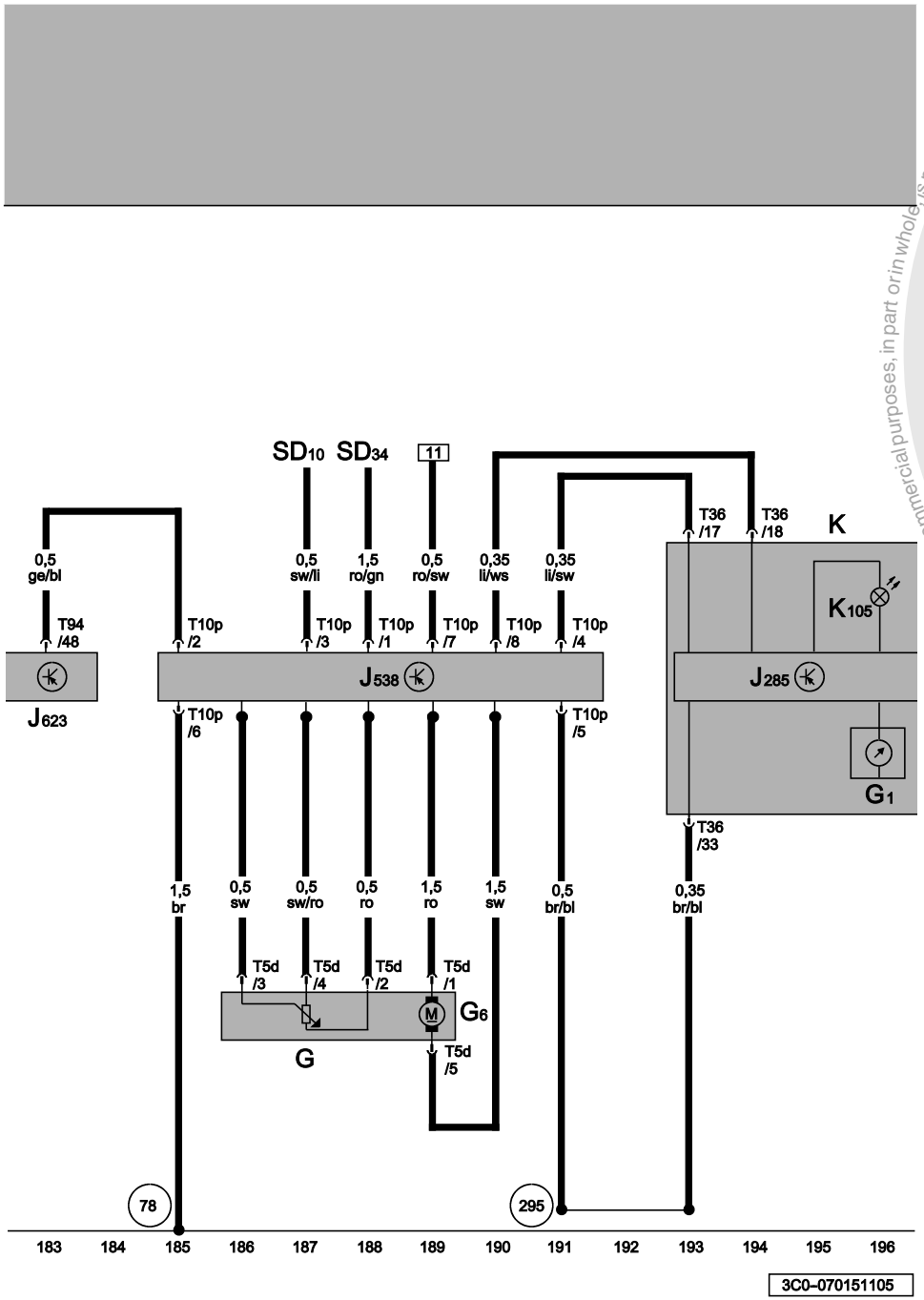
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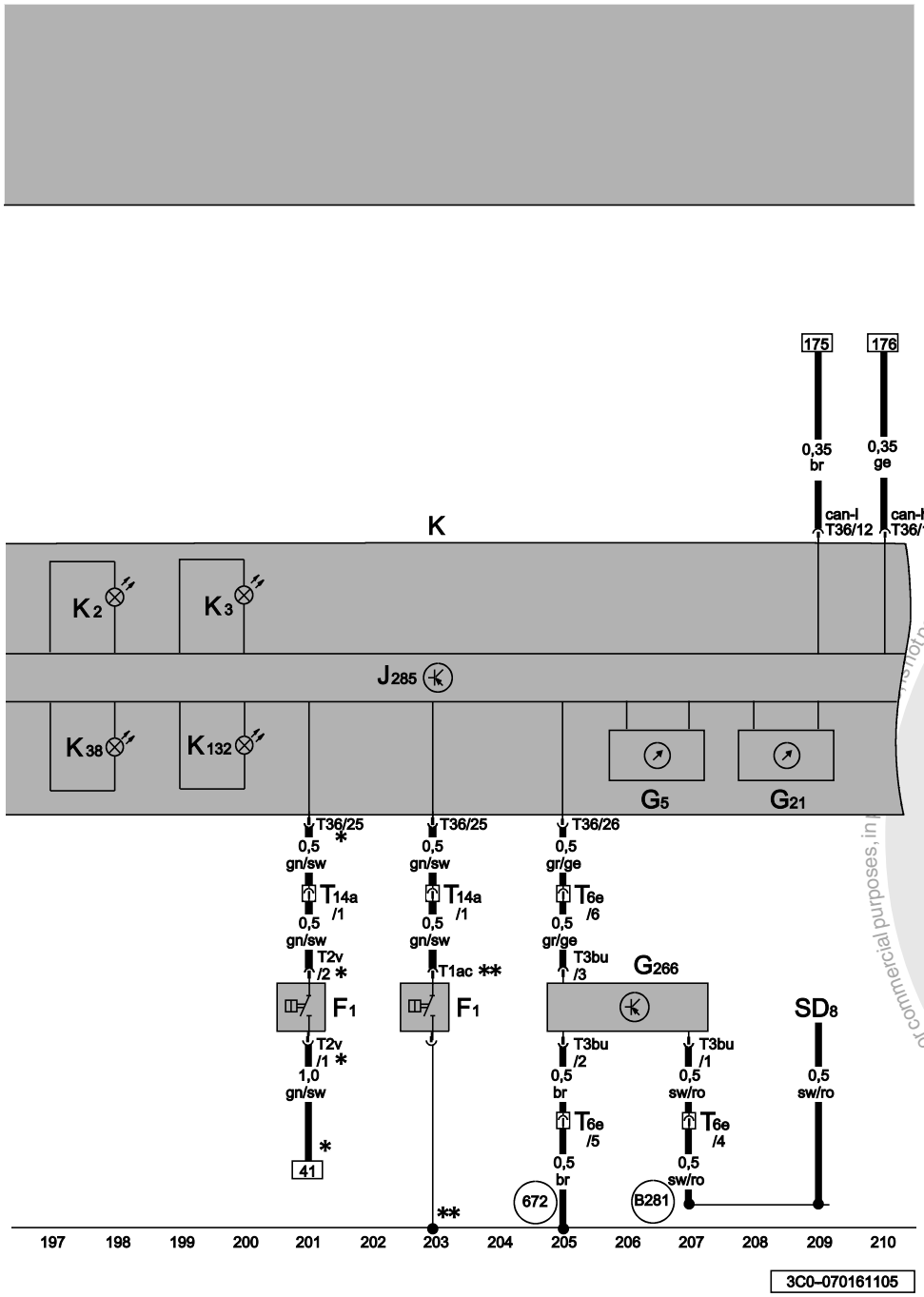
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Engine control unit, fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump, reserve fuel warning lamp

G	Fuel gauge sender
G1	Fuel gauge
G6	Fuel system pressurisation pump
J285	Control unit in dash panel insert
J538	Fuel pump control unit
J623	Engine control unit
K	Dash panel insert
K105	Reserve fuel warning lamp
SD10	Fuse 10 on fuse holder D
SD34	Fuse 34 on fuse holder D
T5d	5-pin connector
T10p	10-pin connector
T36	36-pin connector
T94	94-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness



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Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender, rev. counter, speedometer

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K38	Oil level warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T2v	2-pin connector, black, in engine compartment
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness
*	from November 2005
**	up to November 2005

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Convenience system

⇒ **Electrically adjustable and heated exterior mirrors**
⇒ **Anti-theft alarm system with interior monitoring**
⇒ **Window regulator front and rear**
⇒ **Mirror turn signal**
⇒ **Central locking with remote control**

From May 2005

Notes:

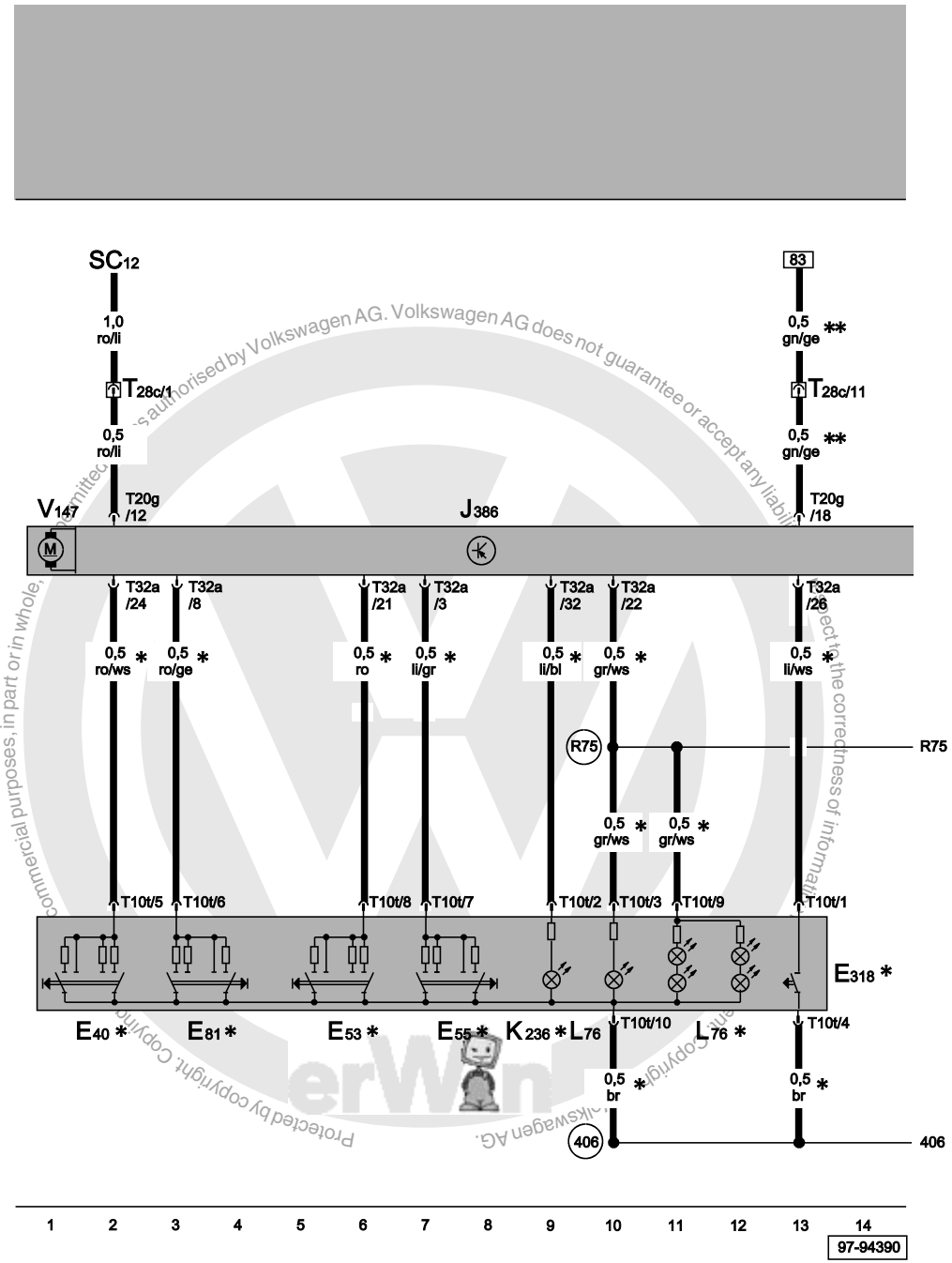
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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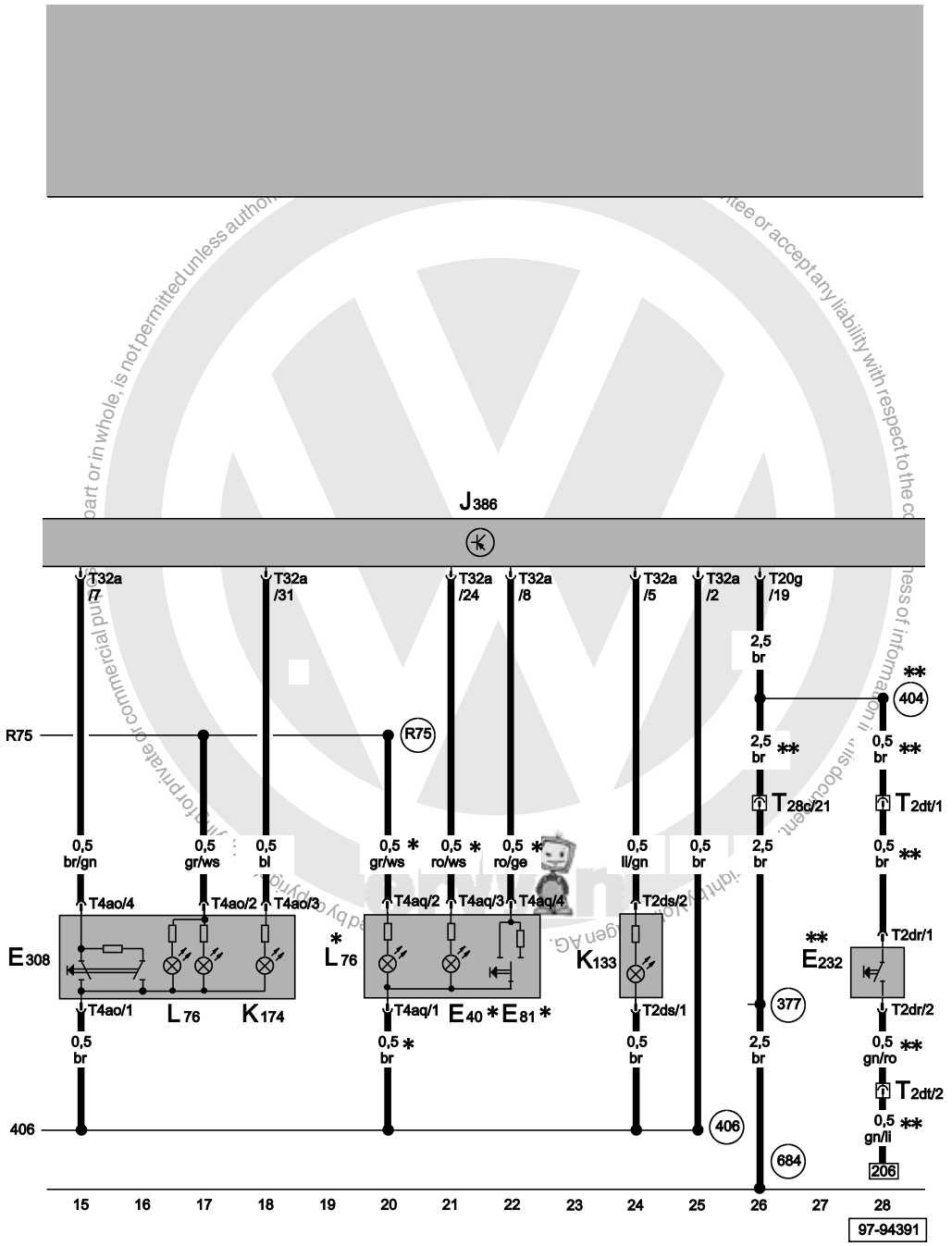


Driver door control unit, front left window regulator switch, rear left and rear right window regulator switches in driver door

E40	Front left window regulator switch
E53	Rear left window regulator switch, in driver door
E55	Rear right window regulator switch, in driver door
E81	Front right window regulator switch in driver door
E318	Childproof lock button
J386	Driver door control unit
K236	Warning light for activated childproof lock
L76	Button illumination bulb
SC12	Fuse 12 on fuse holder C
T10t	10-pin connector
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
T32a	32-pin connector
V147	Driver side window regulator motor
(406)	Earth connection 3, in driver side door wiring harness
(R75)	Connection 1 (58d), in door control unit wiring harness
*	Only models with rear electric window regulators
**	Only American markets

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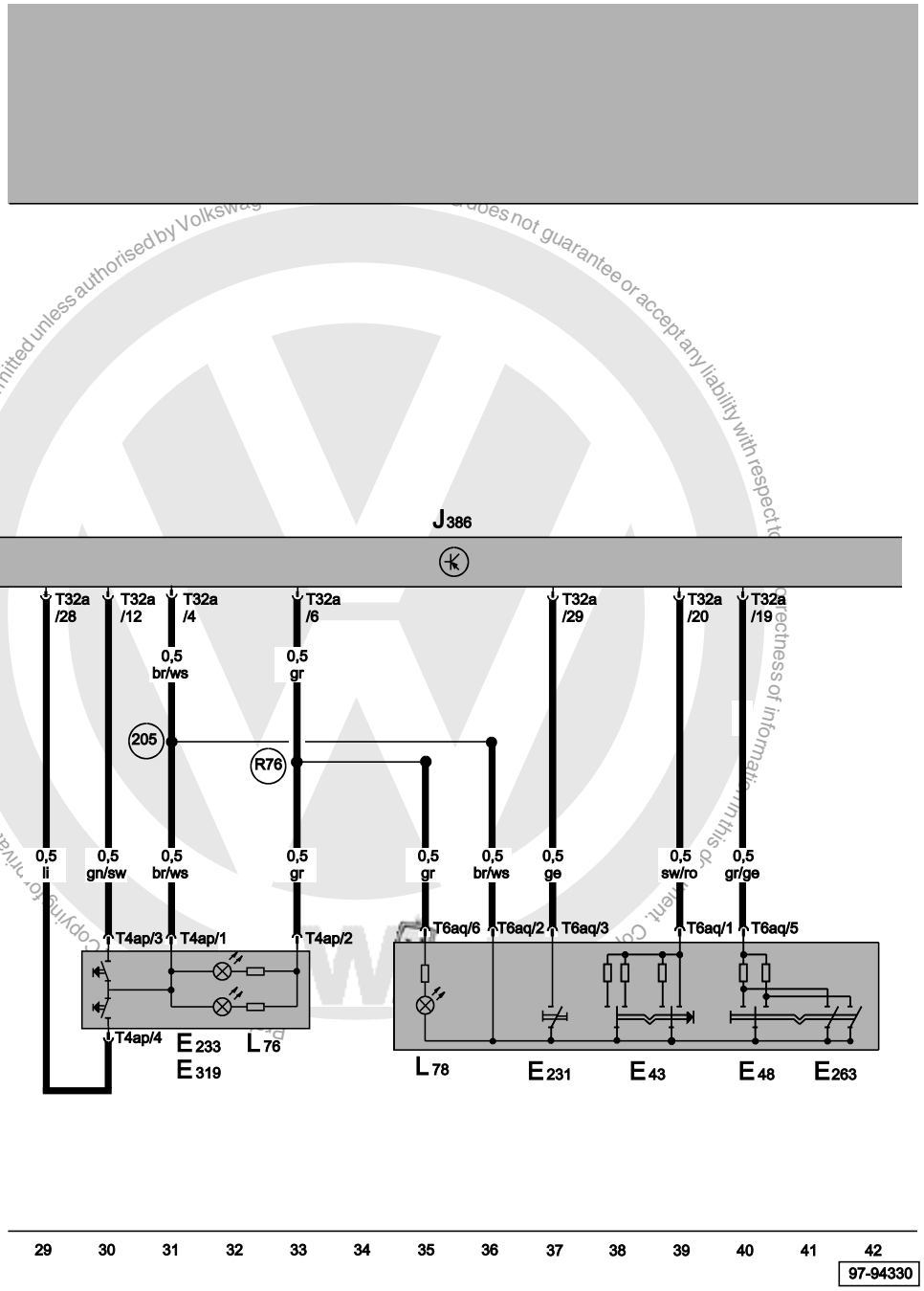
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Driver door control unit, warning lamp for central locking deadlock function -SAFE-, warning lamp for interior locking driver side

E40	Front left window regulator switch
E81	Front right window regulator switch in driver door
E232	Key operated switch to block release of rear lid remotely
E308	Driver side interior locking button for central locking system
J386	Driver door control unit
K133	Central locking deadlock function warning lamp -SAFE-
K174	Driver side interior locking warning lamp
L76	Button illumination bulb
T2dr	2-pin connector
T2ds	2-pin connector
T2dt	2-pin connector, in driver door
T4ao	4-pin connector
T4aq	4-pin connector
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
T32a	32-pin connector
377	Earth connection 12, in main wiring harness
404	Earth connection 4, in driver side door wiring harness
406	Earth connection 3, in driver side door wiring harness
684	Earth point, on front of left side member
R75	Connection 1 (58d), in door control unit wiring harness
*	Only models with manually operated window regulators in rear
**	Only American markets



Driver door control unit, mirror adjustment switch, button for remote release of rear lid, button for remote release of fuel tank flap

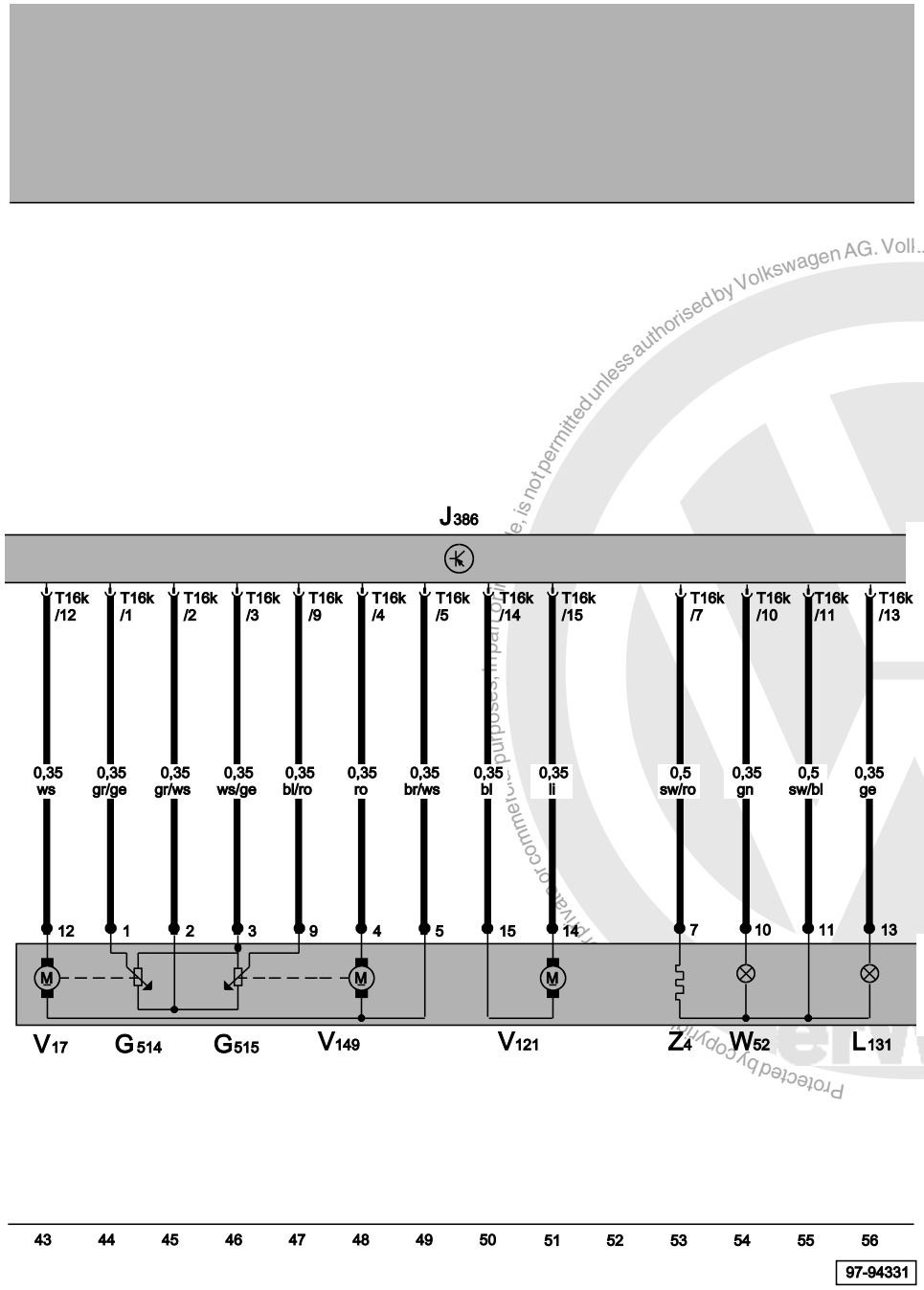
E43	Mirror adjustment switch
E48	Mirror adjustment changeover switch
E231	Exterior mirror heater button
E233	Rear lid remote release button
E263	Fold-in mirror switch
E319	Fuel tank flap release button
J386	Driver door control unit
L76	Button illumination bulb
L78	Mirror adjustment switch illumination bulb
T4ap	4-pin connector
T6aq	6-pin connector
T32a	32-pin connector
(205)	Earth connection, in driver door wiring harness
(R76)	Connection 2 (58d), in door control unit wiring harness

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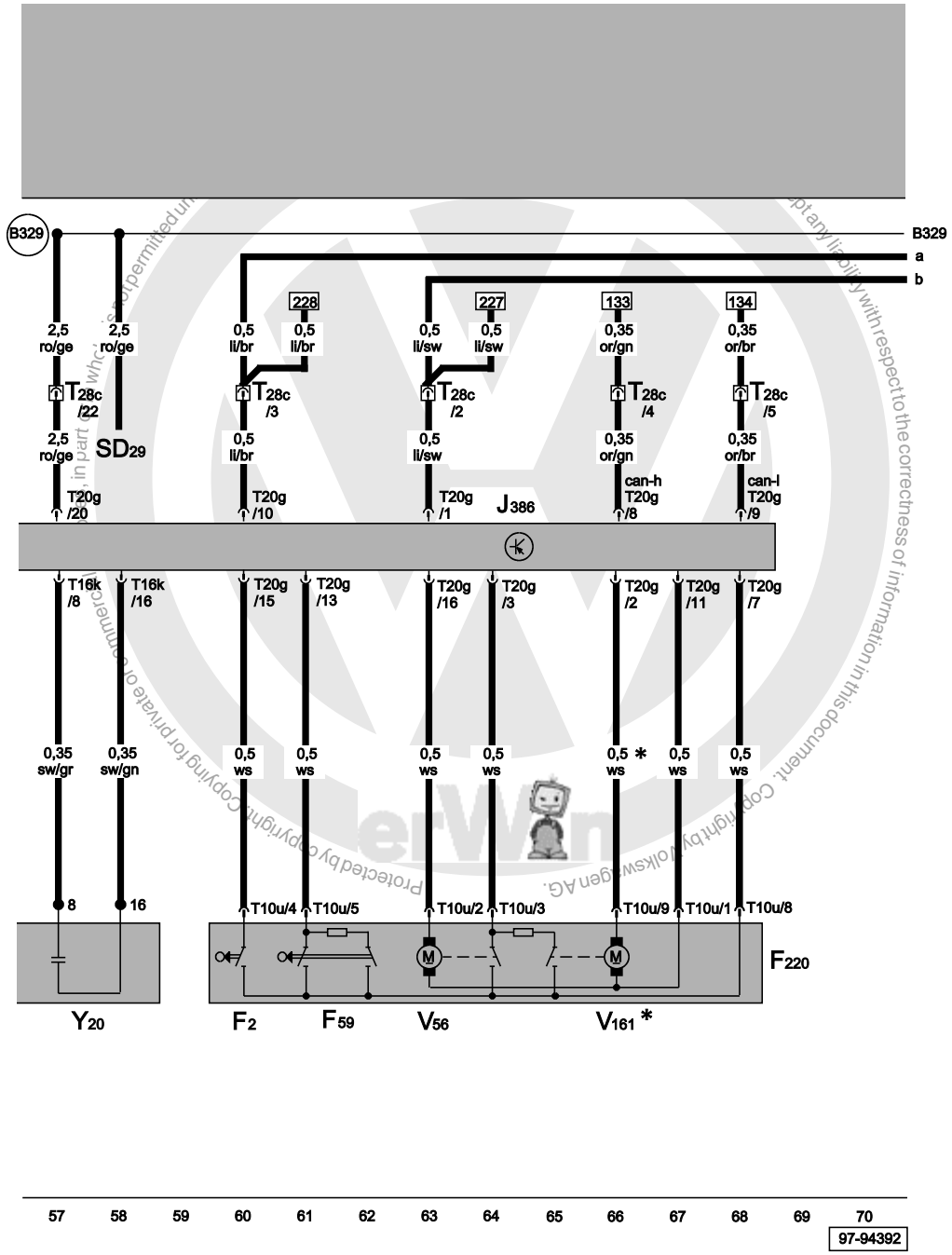
Driver door control unit, mirror adjustment and fold-in mirror motors

G514	Potentiometer for horizontal adjustment of driver side mirror
G515	Potentiometer for vertical adjustment of driver side mirror
J386	Driver door control unit
L131	Driver side exterior mirror turn signal bulb
T16k	16-pin connector
V17	Driver side mirror adjustment motor
V121	Driver side fold-in mirror motor
V149	Driver side mirror adjustment motor
W52	Driver side entry light in exterior mirror
Z4	Heated exterior mirror on driver side



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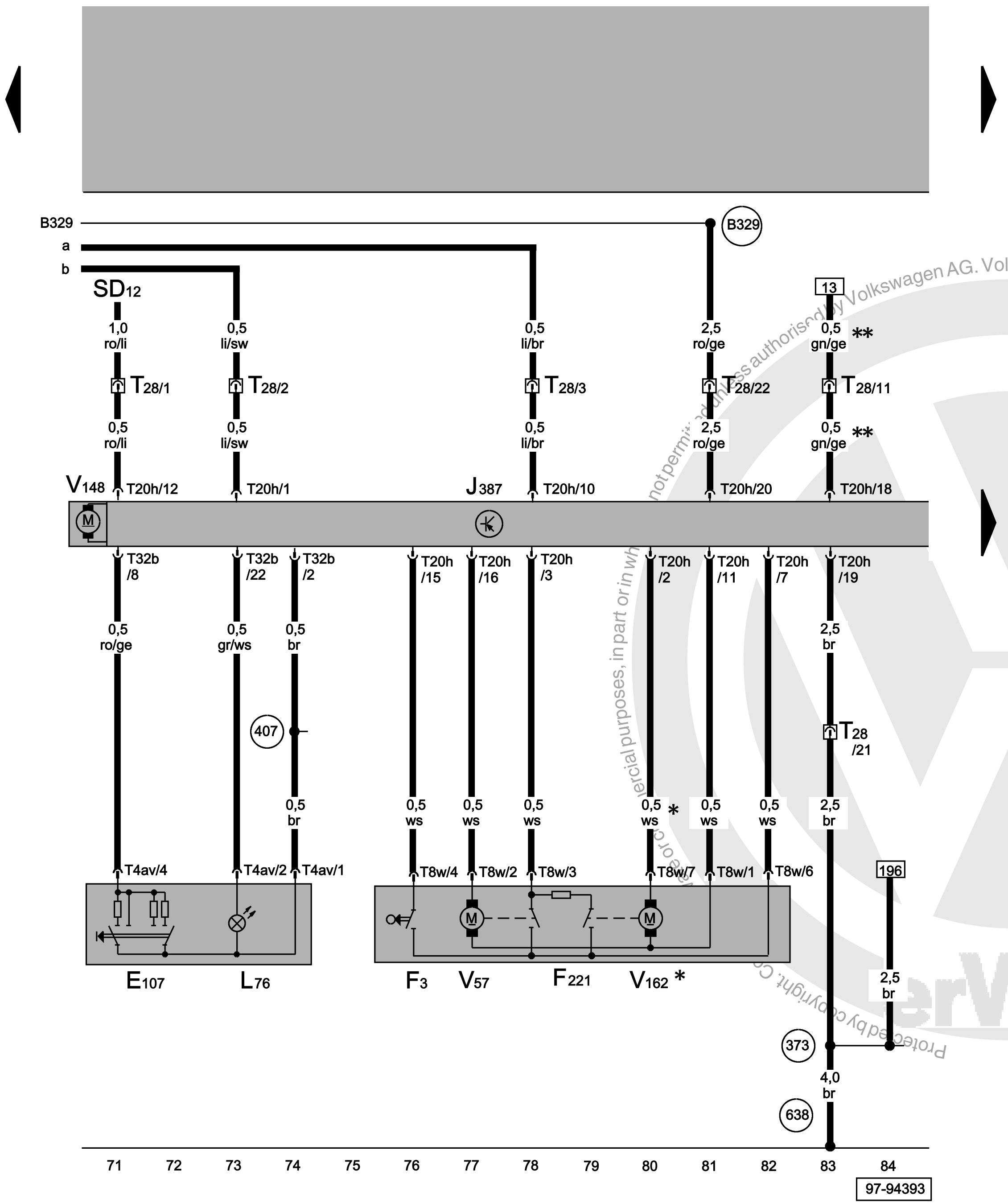


Driver door control unit, door contact switch, lock unit for central locking, automatic anti-dazzle exterior mirror driver side

F2	Driver door contact switch
F59	Central locking switch on driver side
F220	Driver side central locking lock unit
J386	Driver door control unit
SD29	Fuse 29 on fuse holder D
T10u	10-pin connector
T16k	16-pin connector
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
V56	Driver door central locking motor
V161	Driver door central locking deadlock function motor
Y20	Driver side automatic anti-dazzle exterior mirror
(B329)	Connection 15 (30a), in main wiring harness
*	Not for American markets

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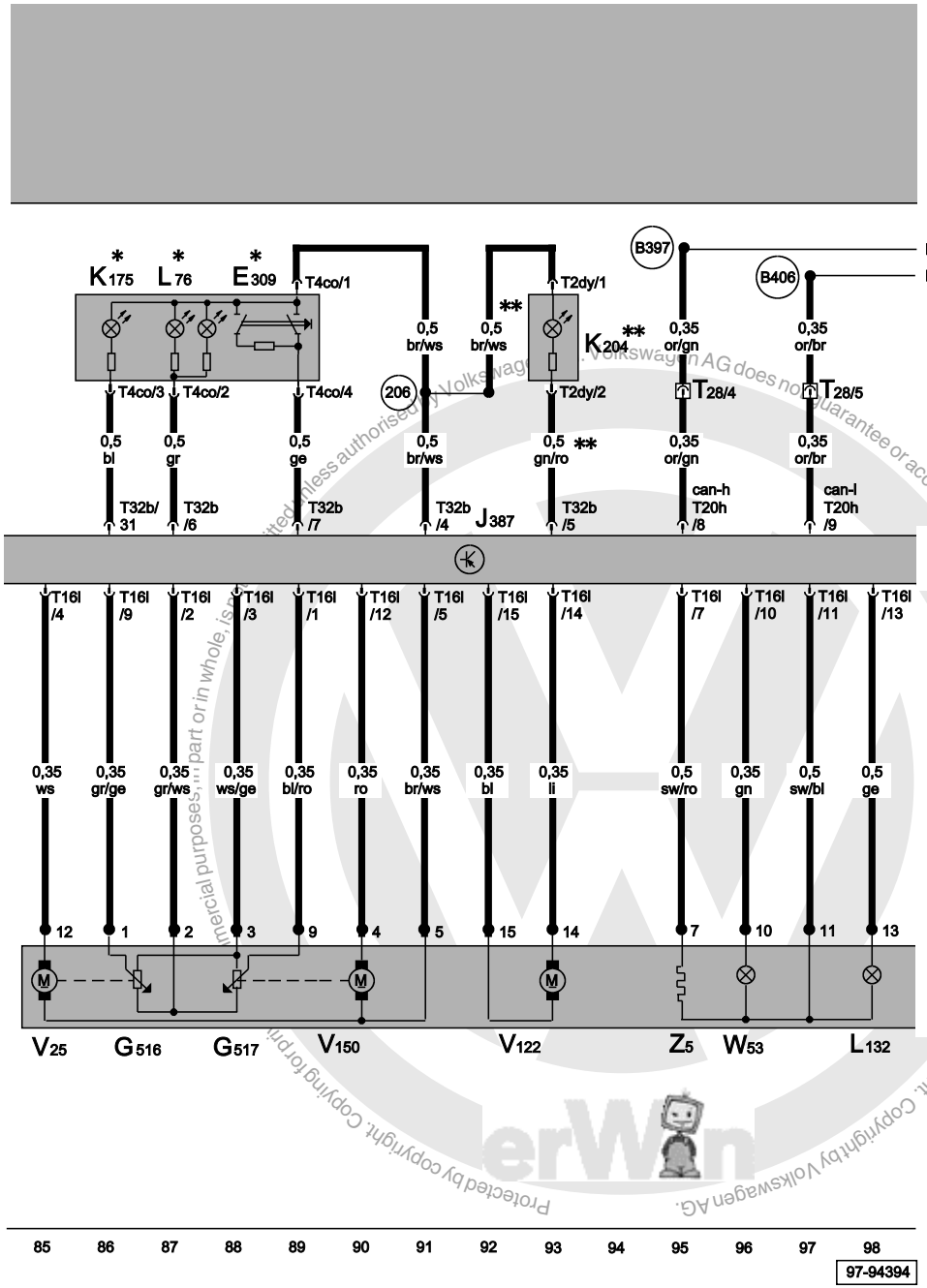


Front passenger side door control unit, front passenger side central locking lock unit, window regulator switch

E107	Window regulator switch in front passenger door
F3	Front passenger door contact switch
F221	Front passenger side central locking lock unit
J387	Front passenger side door control unit
L76	Button illumination bulb
SD12	Fuse 12 on fuse holder D
T4av	4-pin connector
T8w	8-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T32b	32-pin connector
V57	Front passenger seat central locking motor
V148	Front passenger side window regulator motor
V162	Front passenger door central locking deadlock function motor
373	Earth connection 8, in main wiring harness
407	Earth connection 3, in front passenger side door wiring harness
638	Earth point, on right A-pillar
B329	Connection 15 (30a), in main wiring harness
*	Not American markets
**	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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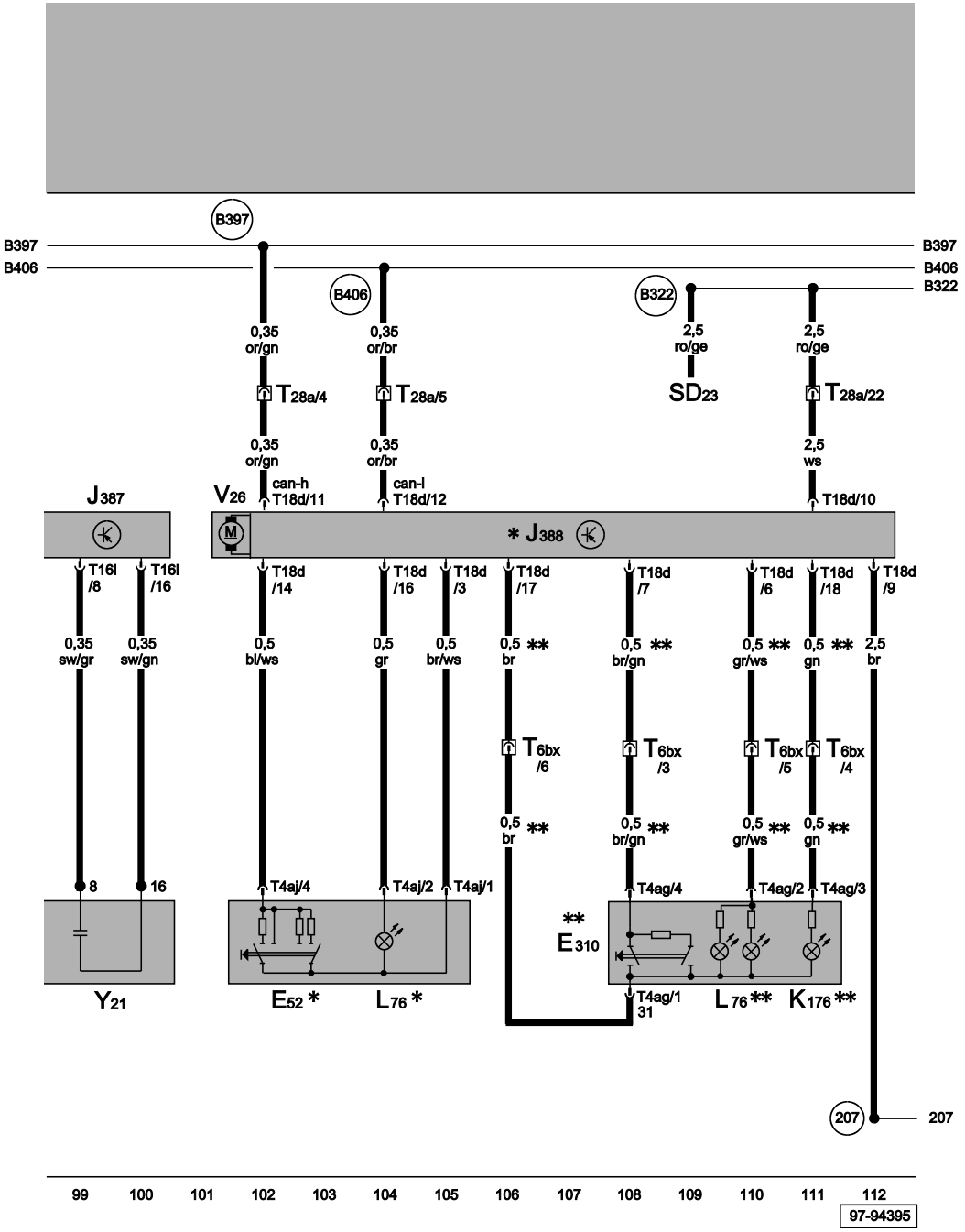


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Front passenger door control unit, front passenger side interior locking button for central locking system

E309	Front passenger side interior locking button for central locking system
G516	Potentiometer for horizontal adjustment of front passenger side mirror
G517	Potentiometer for vertical adjustment of front passenger side mirror
J387	Front passenger side door control unit
K175	Front passenger side interior locking warning lamp
K204	Central locking deadlock function warning lamp on front passenger side
L76	Button illumination bulb
L132	Front passenger side exterior mirror turn signal bulb
T2dy	2-pin connector
T4co	4-pin connector
T16l	16-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T32b	32-pin connector
V25	Front passenger side mirror adjustment motor
V122	Front passenger side fold-in mirror motor
V150	Front passenger side mirror adjustment motor
W53	Front passenger side entry light in exterior mirror
Z5	Heated exterior mirror on front passenger side
206	Earth connection, in front passenger door wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Depends on equipment
**	Only American markets

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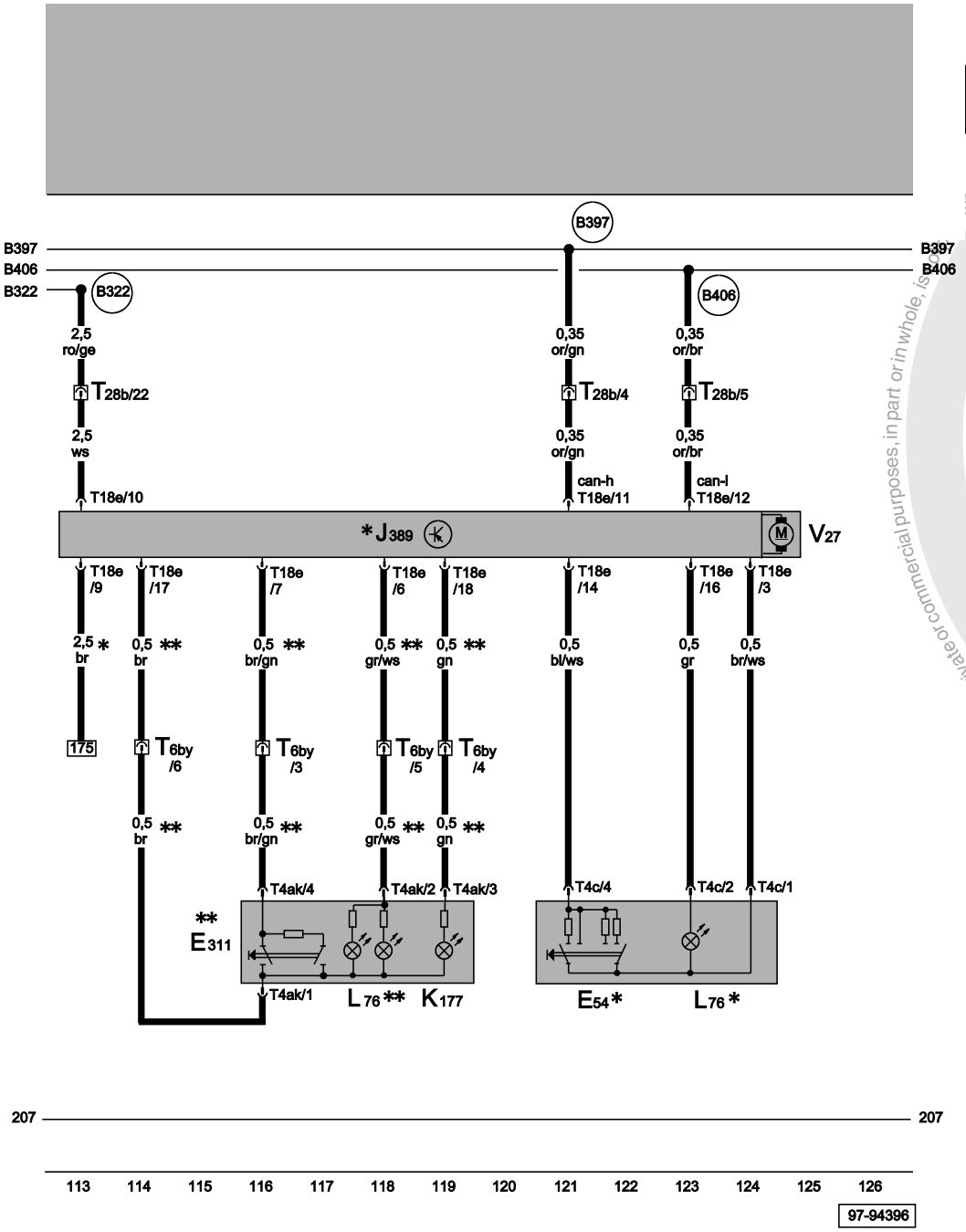


Rear left door control unit, button illumination bulb, window regulator switch in rear left door, front passenger side automatic anti-dazzle exterior mirror

E52	Window regulator switch
E310	Rear left interior locking button for central locking system
J387	Front passenger side door control unit
J388	Rear left door control unit
K176	Rear left interior locking warning lamp
L76	Button illumination bulb
SD23	Fuse 23 on fuse holder D
T4ag	4-pin connector
T4aj	4-pin connector
T6bx	6-pin connector, in rear left door
T16l	16-pin connector
T18d	18-pin connector, white
T28a	28-pin connector, coupling point, left B-pillar
V26	Rear left window regulator motor
Y21	Front passenger side automatic anti-dazzle exterior mirror
207	Earth connection, in rear left door wiring harness
B322	Connection 8 (30a), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only models with rear electric window regulators
**	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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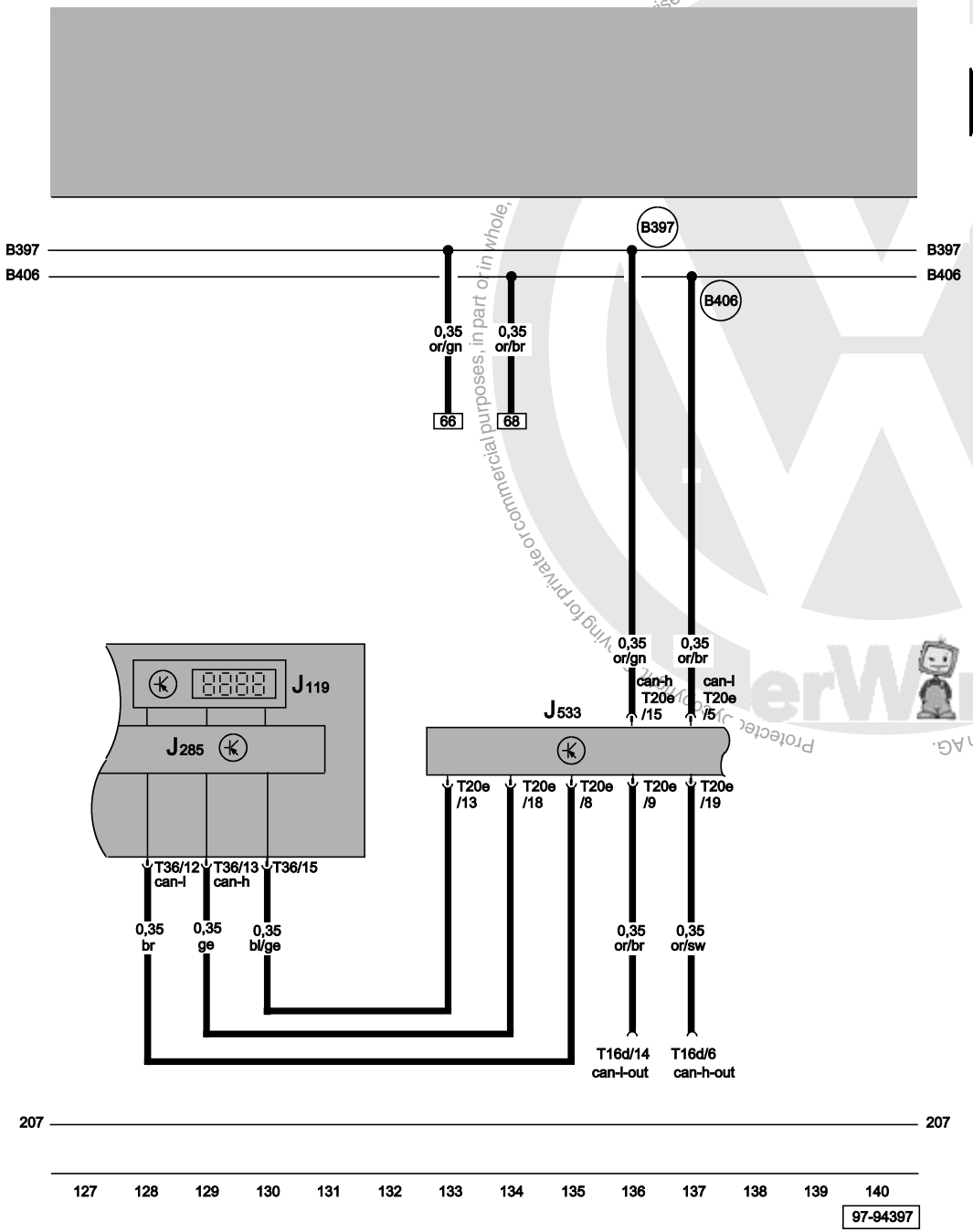


Rear right door control unit, button illumination bulb, window regulator switch in rear right door

E54	Rear right window regulator switch, in door
E311	Rear right interior locking button for central locking system
J389	Rear right door control unit
K177	Rear right interior locking warning lamp
L76	Button illumination bulb
T4c	4-pin connector
T4ak	4-pin connector
T6by	6-pin connector, in rear right door
T18e	18-pin connector
T28b	28-pin connector, coupling point, right B-pillar
V27	Rear right window regulator motor
B322	Connection 8 (30a), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only models with rear electric window regulators
**	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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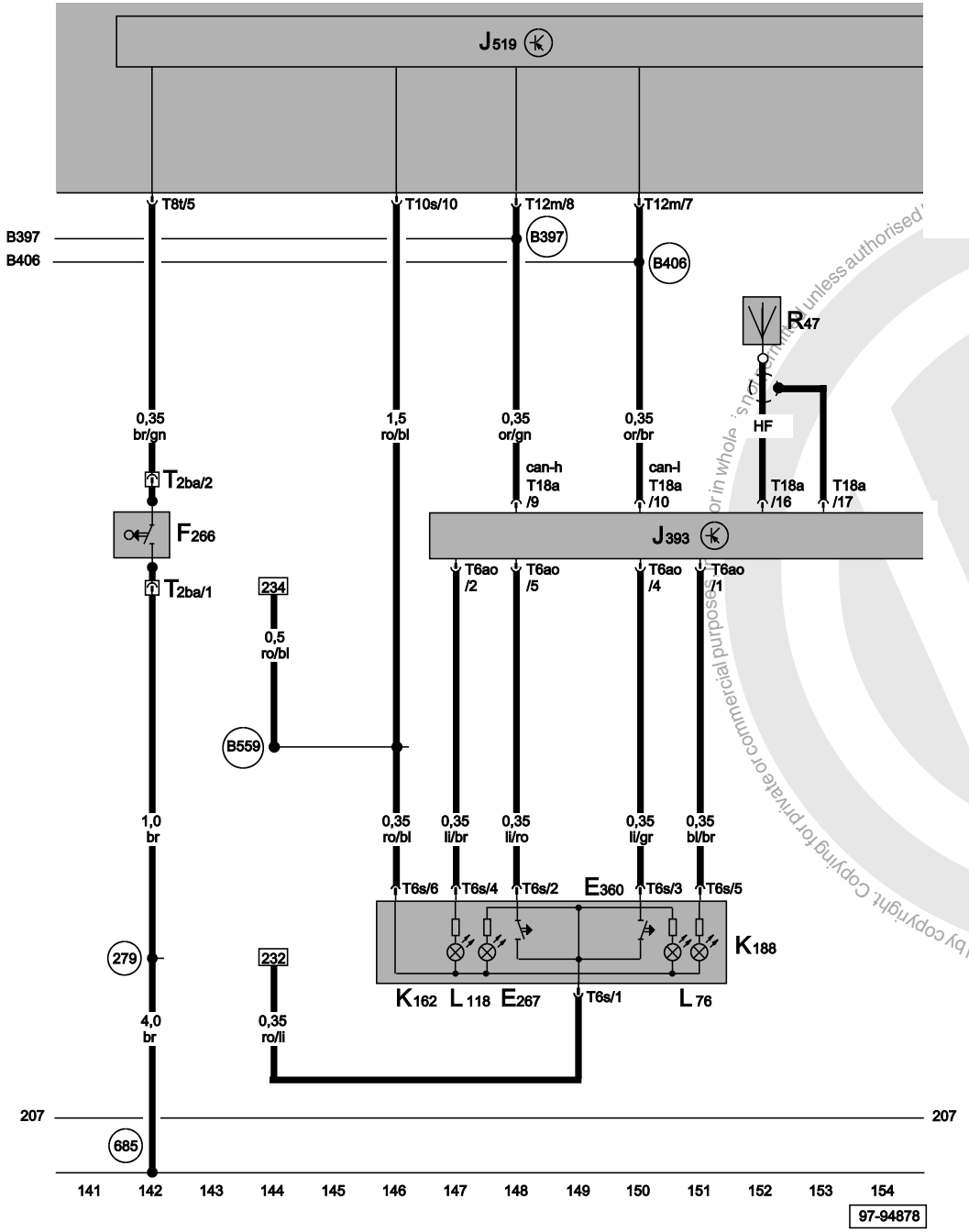


Dash panel insert, multifunction display, data bus diagnostic interface, self-diagnosis connection

J119	Multifunction display
J285	Control unit in dash panel insert
J533	Data bus diagnosis interface
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T36	36-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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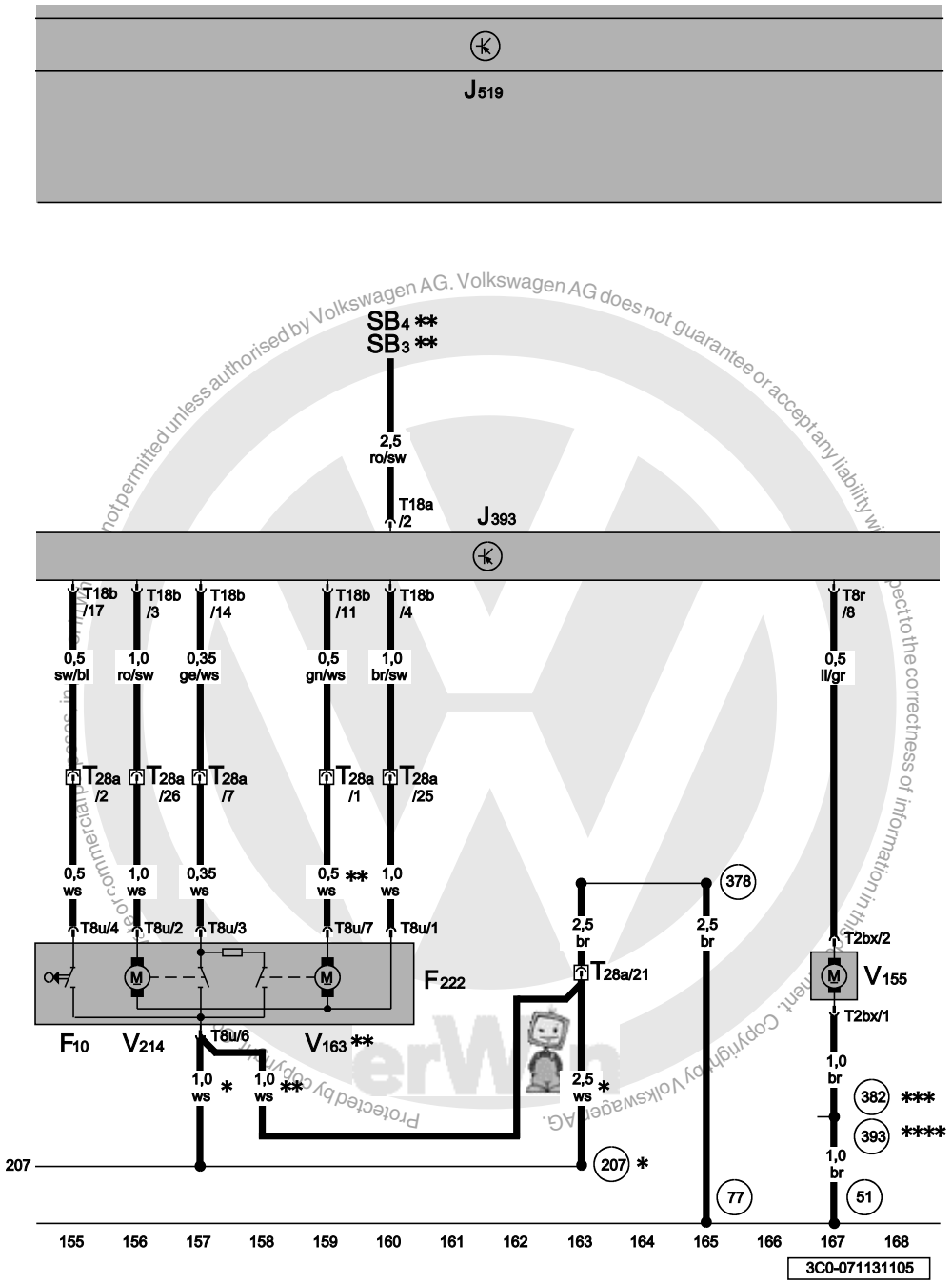


Central control unit for convenience system, bonnet contact switch, deactivation switch for interior monitoring

E267	Interior monitoring deactivation switch
E360	Deactivation button for vehicle inclination sender
F266	Bonnet contact switch
J393	Convenience system central control unit
J519	Onboard supply control unit
K162	Interior monitoring off warning lamp
K188	Vehicle inclination sender warning lamp
L76	Button illumination bulb
L118	Deactivation of interior monitoring system switch illumination bulb
R47	Aerial for central locking and anti-theft alarm system, lower left A-pillar
T2ba	2-pin connector, black, behind right headlight
T6ao	6-pin connector
T6s	6-pin connector
T8t	8-pin connector, black
T10s	10-pin connector, black
T12m	12-pin connector, black
T18a	18-pin connector
279	Earth connection 5, in interior wiring harness
685	Earth point 1 at front of right longitudinal member
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B559	Connection 1 (30g), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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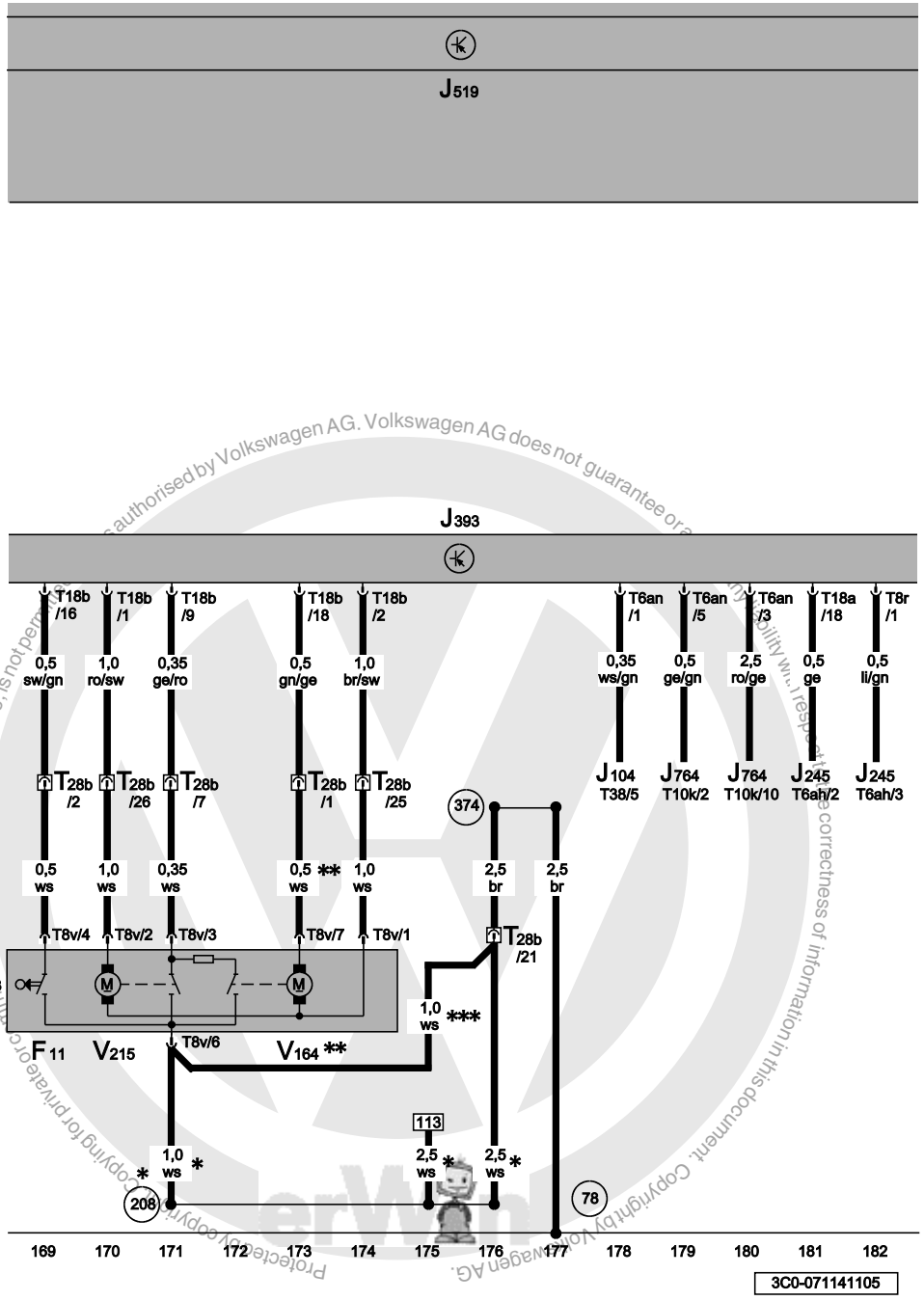


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Convenience system central control unit, rear left door contact switch, rear left central locking lock unit

F10	Rear left door contact switch
F222	Rear left central locking lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
SB3	Fuse 3 on fuse holder B
SB4	Fuse 4 on fuse holder B
T2bx	2-pin connector
T8r	8-pin connector
T8u	8-pin connector
T18a	18-pin connector
T18b	18-pin connector
T28a	28-pin connector, coupling point, left B-pillar
V155	Tank filler flap locking motor
V163	Rear left door central locking deadlock function motor
V214	Rear left door central locking motor, lock
51	Earth point, on right in luggage compartment
77	Earth point, lower part of left B-pillar
207	Earth connection, in rear left door wiring harness
378	Earth connection 13, in main wiring harness
382	Earth connection 17, in main wiring harness
393	Earth connection 28, in main wiring harness
*	Only models with rear electric window regulators
**	Depends on equipment
***	Only saloon
****	Only Variant

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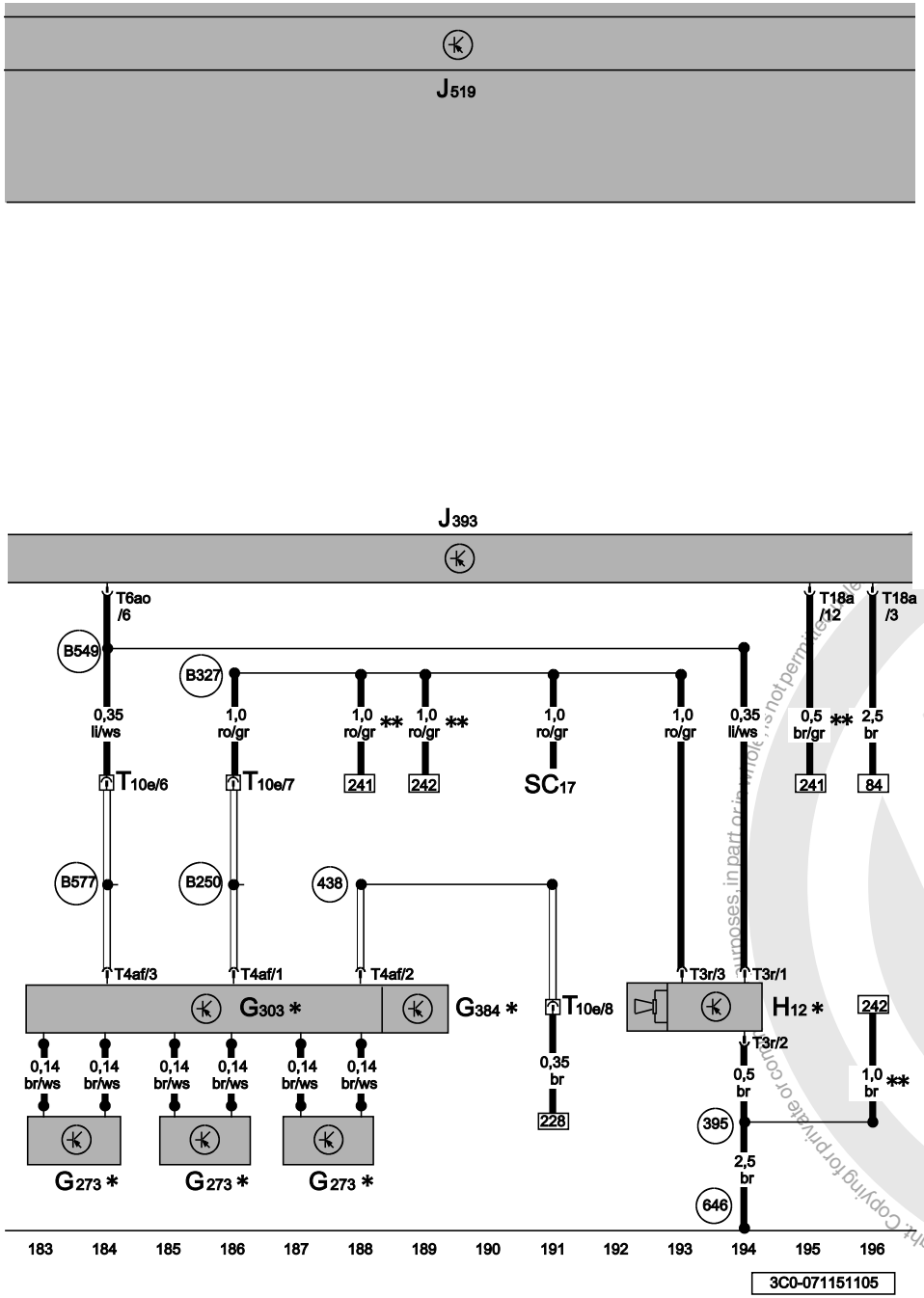


Convenience system central control unit, central locking lock unit

F11	Rear right door contact switch
F223	Rear right central locking lock unit
J104	ABS control unit
J393	Convenience system central control unit
J245	Sliding sunroof adjustment control unit
J519	Onboard supply control unit
J764	Electronic steering column lock control unit
T6ah	6-pin connector
T6an	6-pin connector
T8r	8-pin connector
T8v	8-pin connector
T10k	10-pin connector
T18a	18-pin connector
T18b	18-pin connector
T28b	28-pin connector, coupling point, right B-pillar
T38	38-pin connector
V164	Rear right door central deadlock function locking motor
V215	Rear right door central locking motor, lock
78	Earth point, lower part of right B-pillar
208	Earth connection, in rear right door wiring harness
374	Earth connection 9, in main wiring harness
*	Only models with rear electric window regulators
**	Not American markets
***	Only models with no electric windows in rear

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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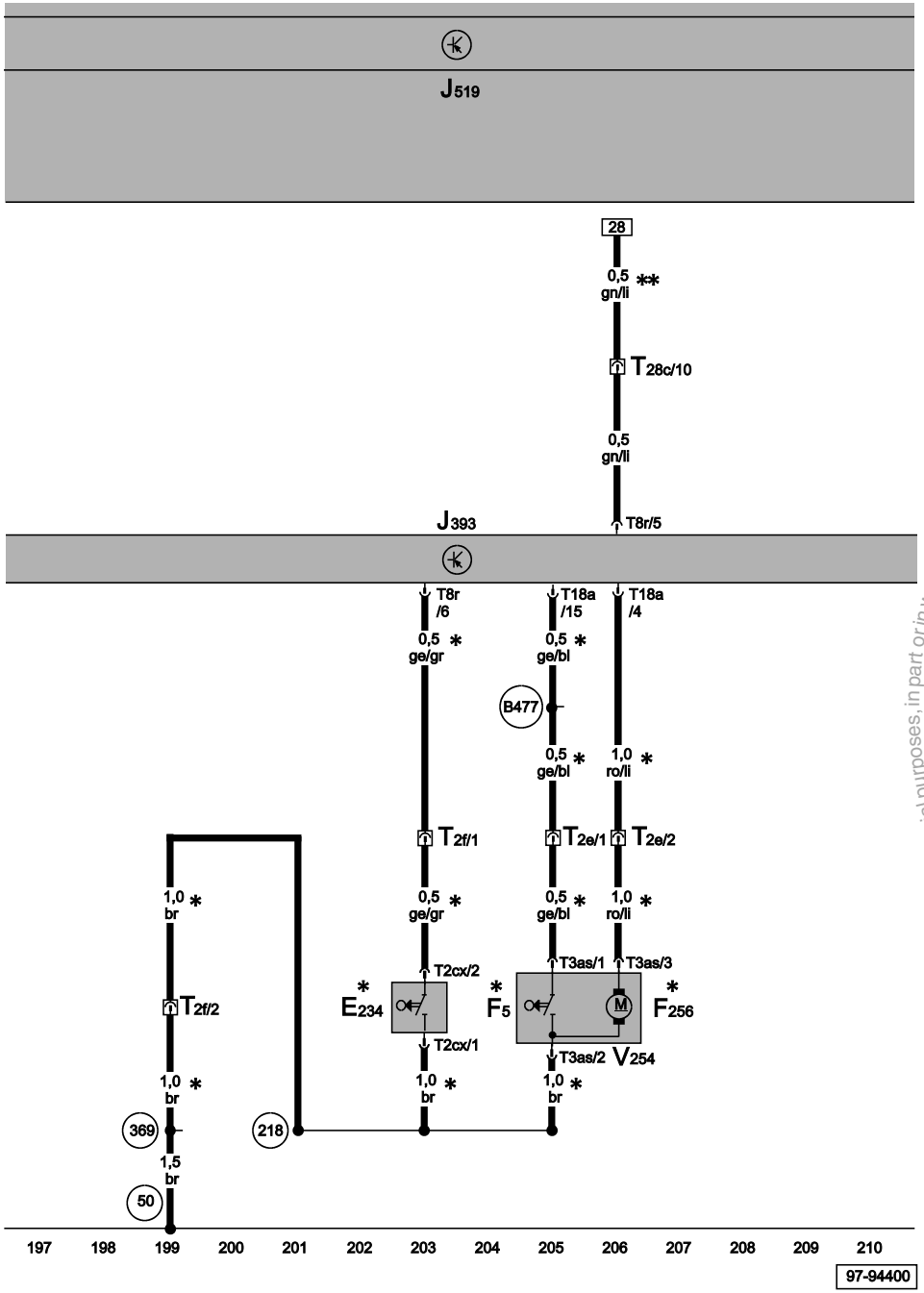
Central control unit for convenience system, vehicle inclination sender, alarm horn, interior monitor send and receive module 1

G273	Interior monitoring sensor
G303	Interior monitor send and receive module 1
G384	Vehicle inclination sender
H12	Alarm horn
J393	Convenience system central control unit
J519	Onboard supply control unit
SC17	Fuse 17 on fuse holder C
T3r	3-pin connector
T4af	4-pin connector
T6ao	6-pin connector
T10e	10-pin connector, blue, coupling point for roof wiring harness
T18a	18-pin connector
395	Earth connection 30, in main wiring harness
438	Earth connection 3, in roof wiring harness
646	Earth point 2, on bulkhead
B250	Positive connection, in roof wiring harness
B327	Connection 13 (30a), in main wiring harness
B549	Connection 2 (LIN bus), in main wiring harness
B577	LIN bus connection, in roof wiring harness
<fo:exter	Flexible printed circuit
nal-graphic src="Z:/tools/png-convert/out//slp/ft_icons/rahmen.png" content-width="20pt" scaling="uniform"/>	

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

* Not for American markets
** Only American markets

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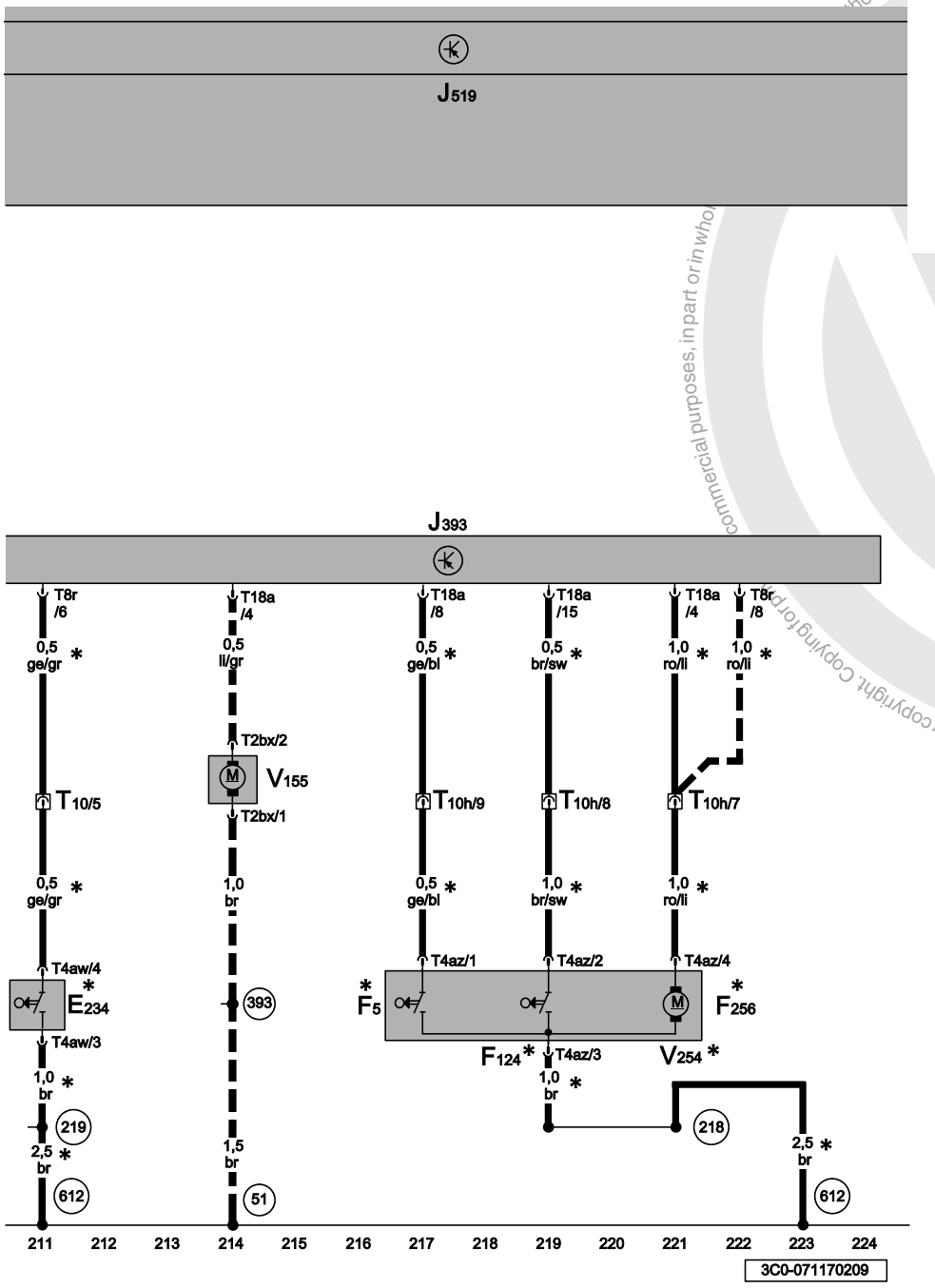


Convenience system central control unit, rear lid lock unit - saloon models

E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2cx	2-pin connector
T2e	2-pin connector, coupling point, rear lid (saloon)
T2f	2-pin connector, coupling point, rear lid (saloon)
T3as	3-pin connector, rear lid lock (saloon)
T8r	8-pin connector
T18a	18-pin connector
T28c	28-pin connector, coupling point, left A-pillar
V254	Rear lid electric release motor
50	Earth point, on left in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
B477	Connection 13, in main wiring harness
*	Only on saloon models
**	Only American markets

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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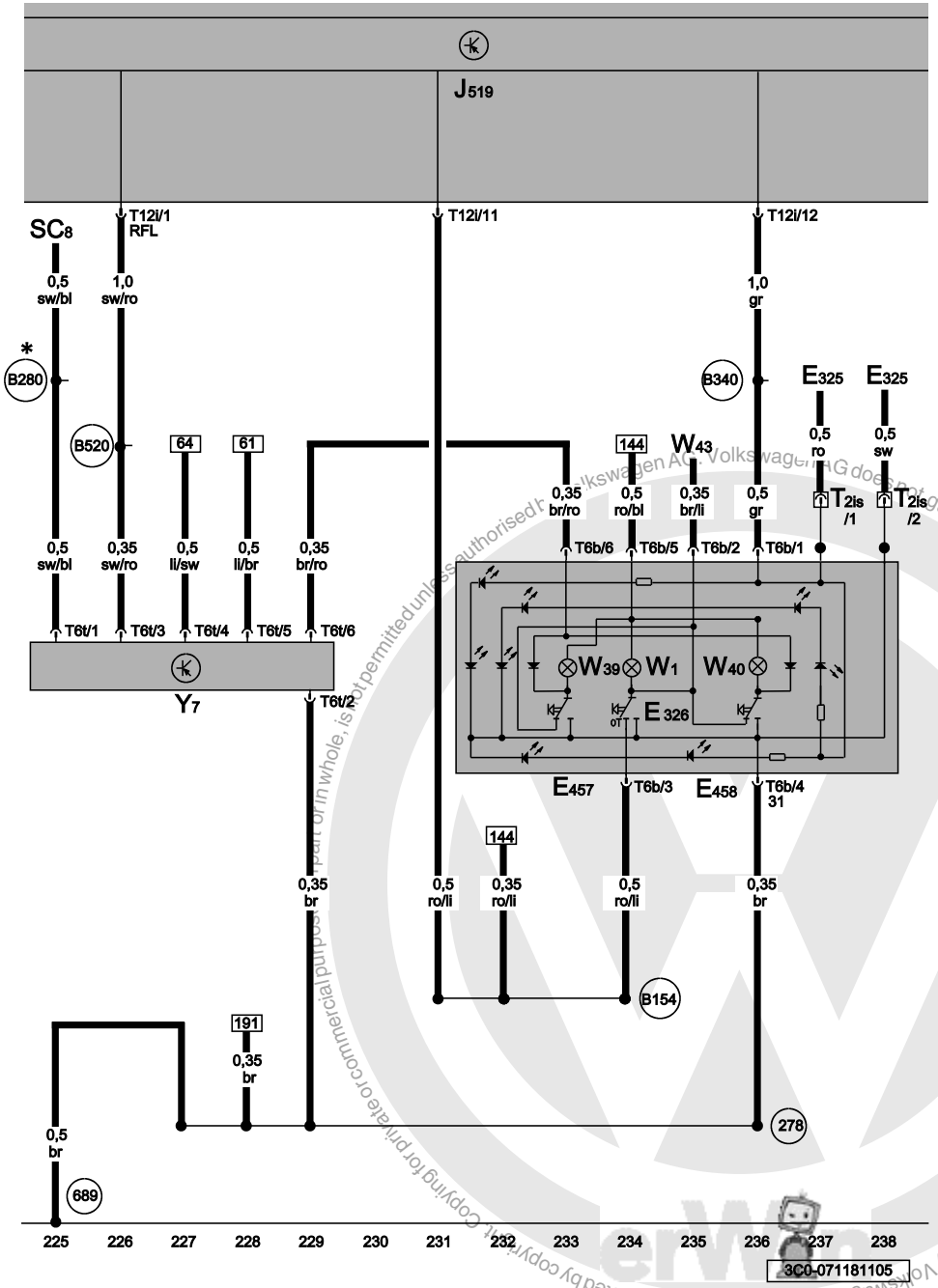


Convenience system central control unit, rear lid lock unit - Variant

E234	Rear lid handle release button
F5	Luggage compartment light switch
F124	Contact switch in lock cylinder for rear lid, anti-theft alarm system and central locking system
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2bx	2-pin connector
T4aw	4-pin connector
T4az	4-pin connector, rear lid lock (Variant)
T10	10-pin connector
T10h	10-pin connector, coupling point, rear lid (Variant)
T8r	8-pin connector
T18a	18-pin connector
V155	Tank filler flap locking motor
V254	Rear lid electric release motor
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
219	Earth connection 2, in rear lid wiring harness
393	Earth connection 28, in main wiring harness
612	Earth point, centre on rear lid
*	Only Variant
---	Gradual introduction from January 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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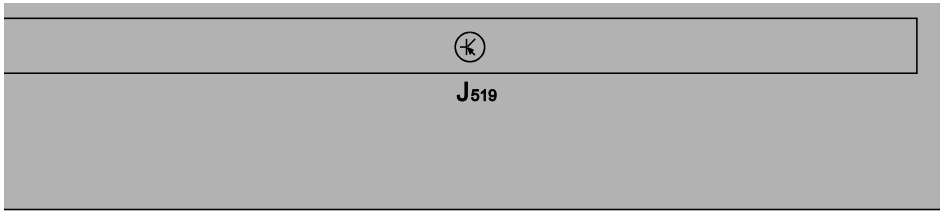


ws = white
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ro = red
br = brown
gn = green
bl = blue
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li = purple
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Sliding sunroof control unit, sunroof button, automatic anti-dazzle interior mirror

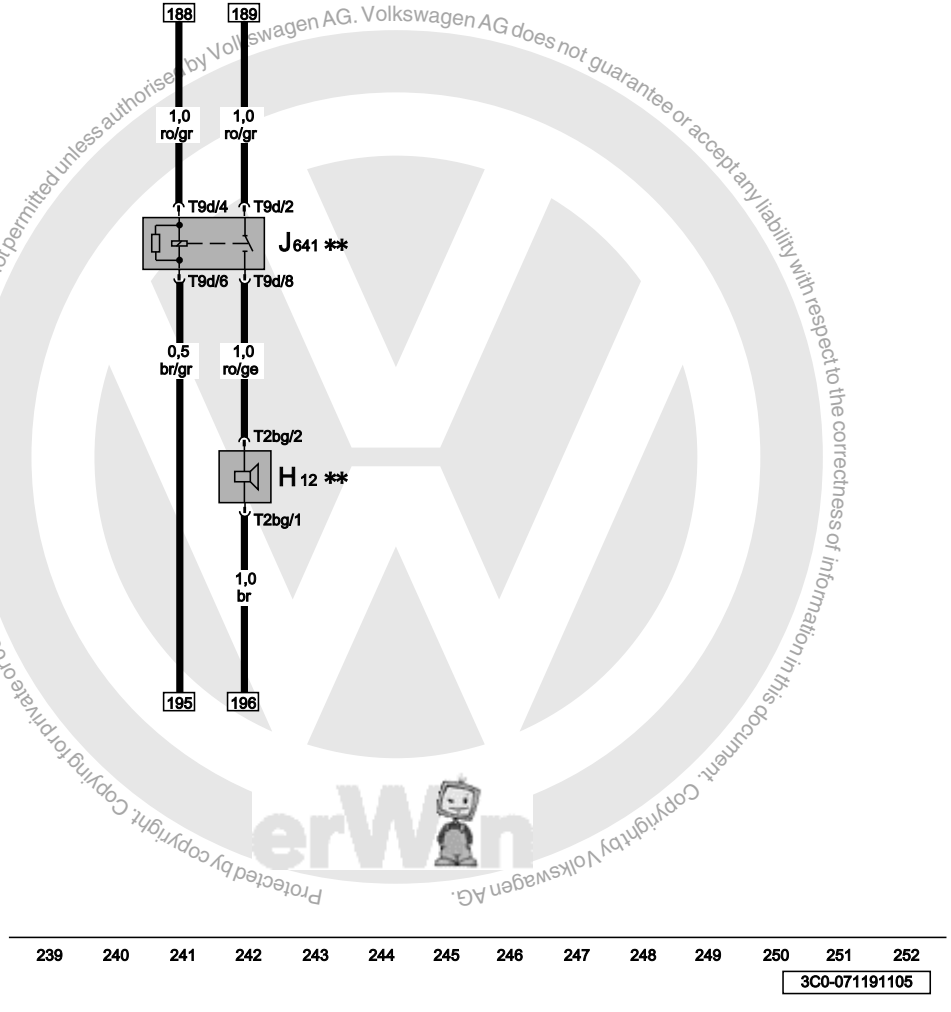
E325	Sunroof button
E326	Front interior light button
E457	Driver side reading light button
E458	Front passenger side reading light button
J519	Onboard supply control unit
SC8	Fuse 8 on fuse holder C
T2is	2-pin connector, black
T6b	6-pin connector
T6t	6-pin connector
T12i	12-pin connector, black
W1	Front interior light
W39	Left centre reading light
W40	Right centre reading light
W43	Rear interior light
Y7	Automatic anti-dazzle interior mirror
278	Earth connection 4, in interior wiring harness
689	Earth point, front centre of roof
B154	Connection 1 (DCt), in interior wiring harness
B280	Connection 4 (15a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B520	Connection (RL), in main wiring harness
*	Discontinued from May 2005

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Alarm horn relay, alarm horn

H12	Alarm horn
J519	Onboard supply control unit
J641	Alarm horn relay
T2bg	2-pin connector
T9d	9-pin connector
**	Only American markets



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or	=	orange
rs	=	pink

Radio system "Premium" with satellite digital radio tuner (SDARS), radio navigation system with satellite digital radio tuner: RNS MFD2-DVD, CD changer, Dynaudio Sound

From April 2005

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

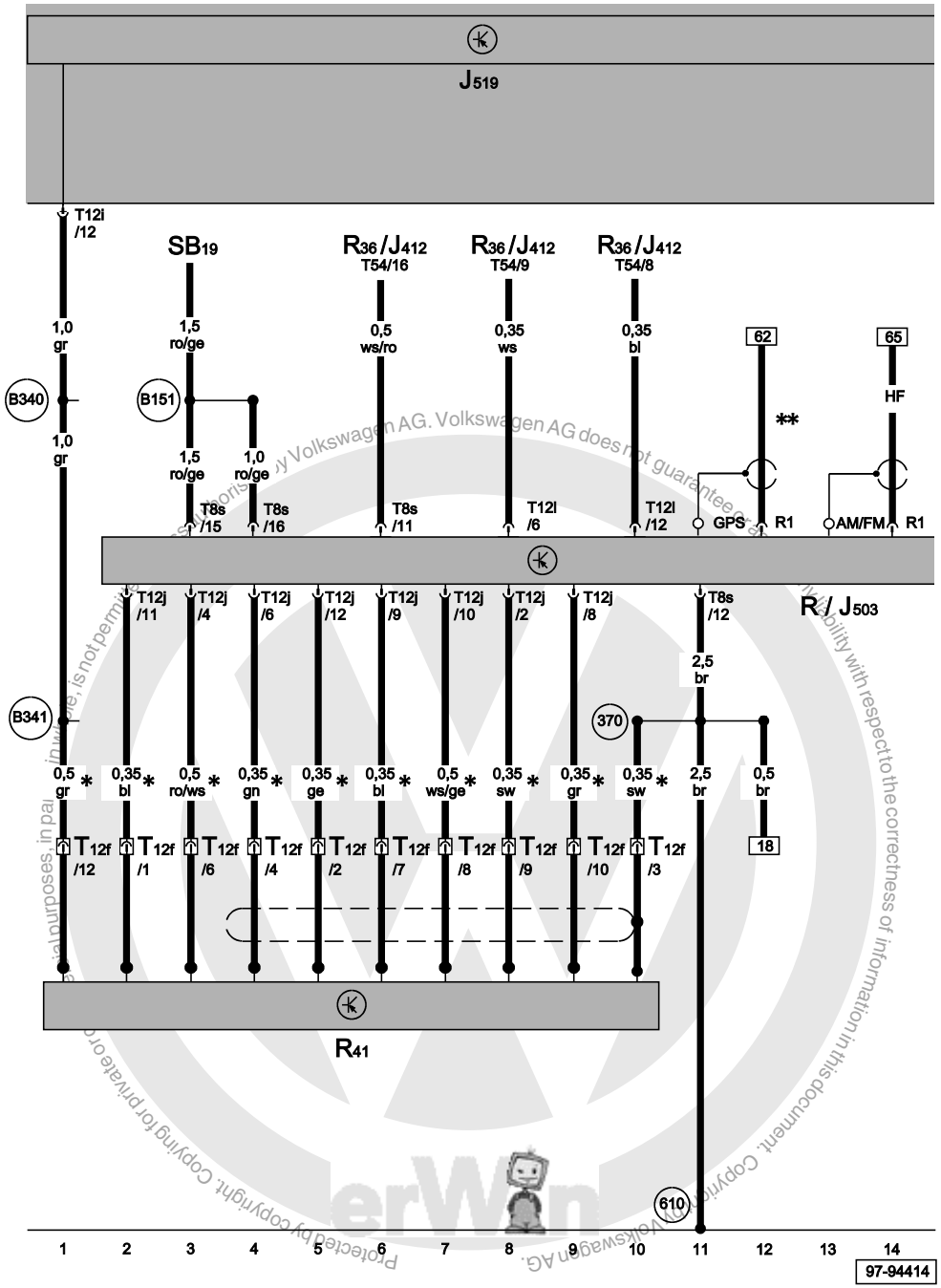
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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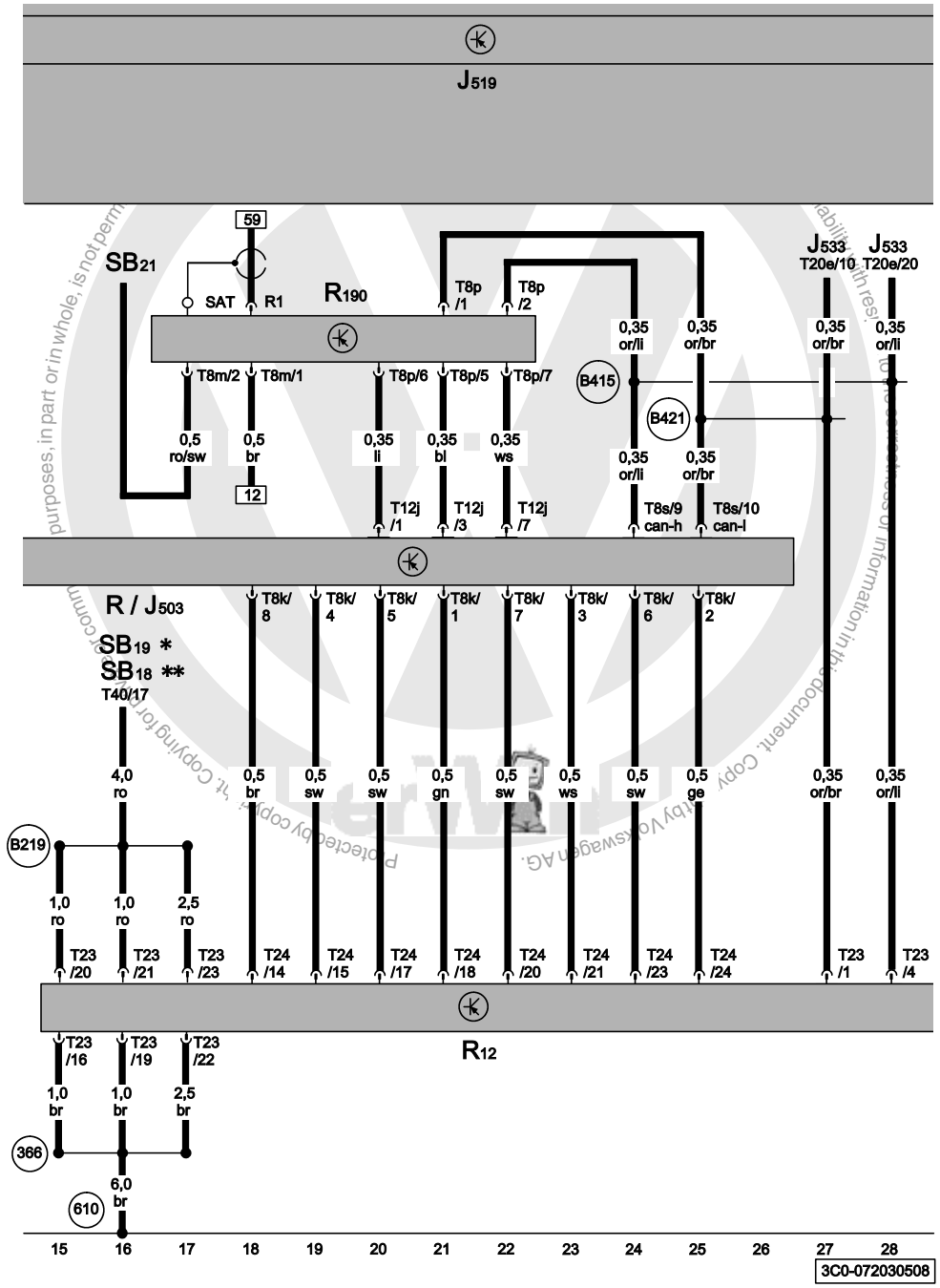


Voltage supply for radio and control unit with display for radio and navigation, CD changer, GPS aerial connection

J412	Control unit for mobile telephone operating electronics
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R1	Aerial connection
R36	Telephone transmitter and receiver unit
R41	CD changer
SB19	Fuse 19 on fuse holder B
T8s	8-pin connector, black
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector
T12l	12-pin connector
T54	54-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), at front under centre console
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only models with preparation for external CD changer
**	Only models with navigation system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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Voltage supply for amplifier, radio with control unit with display for radio and navigation, satellite digital radio tuner, aerial connection

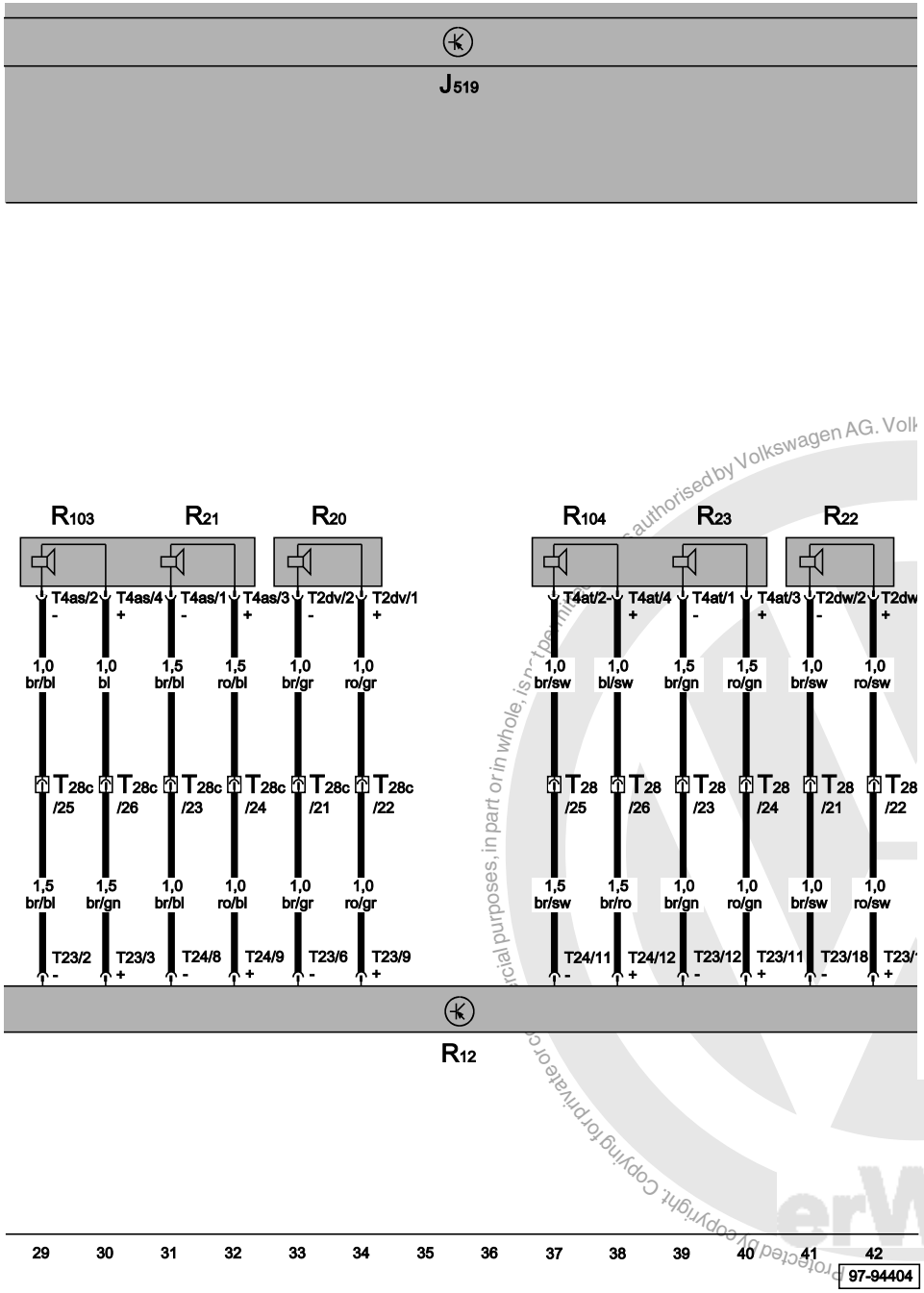
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnosis interface
R	Radio
R1	Aerial connection
R12	Amplifier, under front passenger seat
R190	Satellite digital radio tuner
SB18	Fuse 18 on fuse holder B
SB21	Fuse 21 on fuse holder B
T8k	8-pin connector, brown
T8m	8-pin connector
T8p	8-pin connector
T8s	8-pin connector, black
T12j	12-pin connector
T20e	20-pin connector
T23	23-pin connector
T24	24-pin connector
T40	40-pin connector, on E-box
366	Earth connection 1, in main wiring harness
610	Earth point (audio), at front under centre console
B219	Positive connection 4 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only models with E-box Low
**	Only models with E-box High

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

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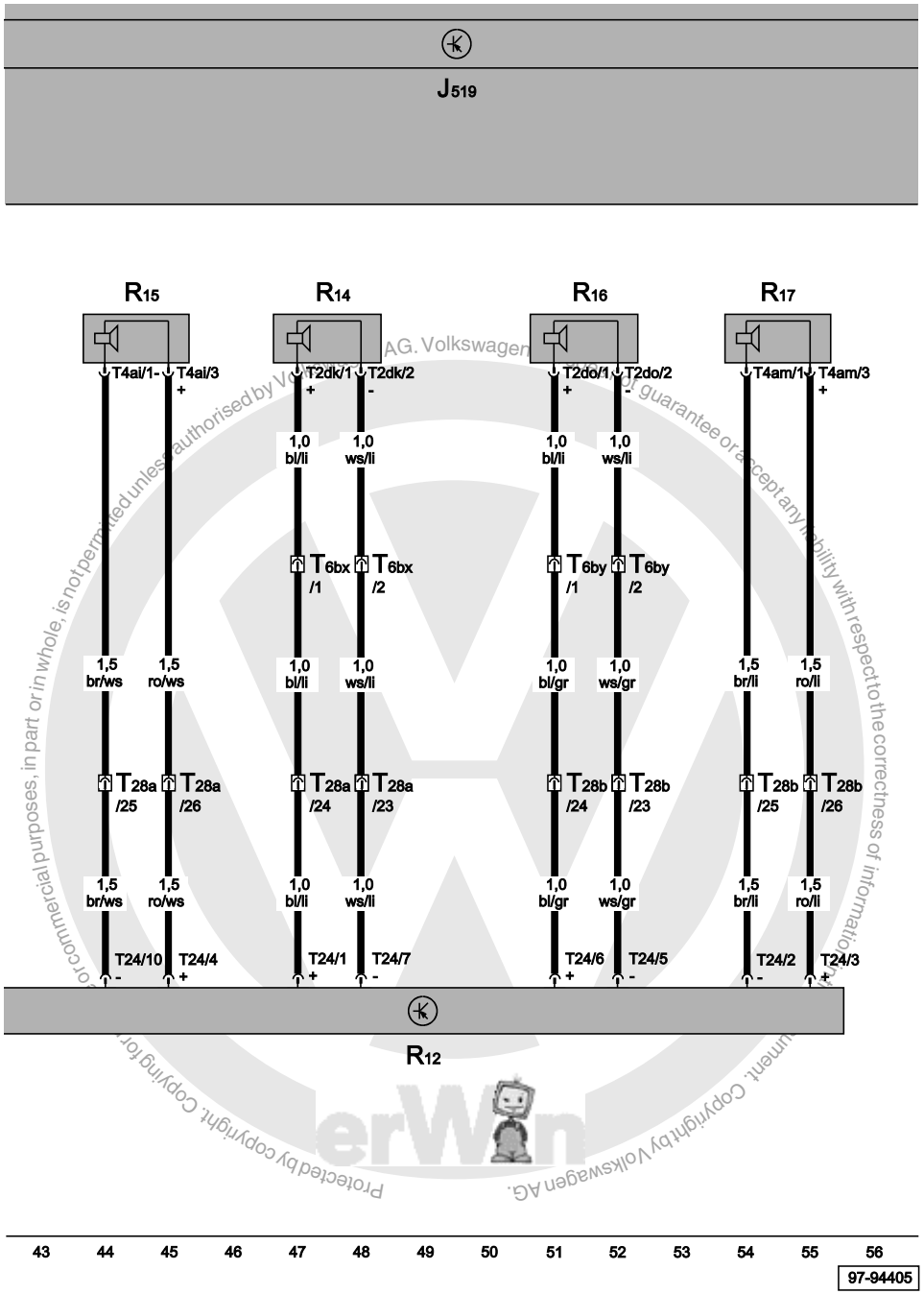
Front left and right treble, mid-range and bass loudspeakers , amplifier

J519	Onboard supply control unit
R12	Amplifier, under front passenger seat
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R103	Front left mid-range loudspeaker
R104	Front right mid-range loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T23	23-pin connector
T24	24-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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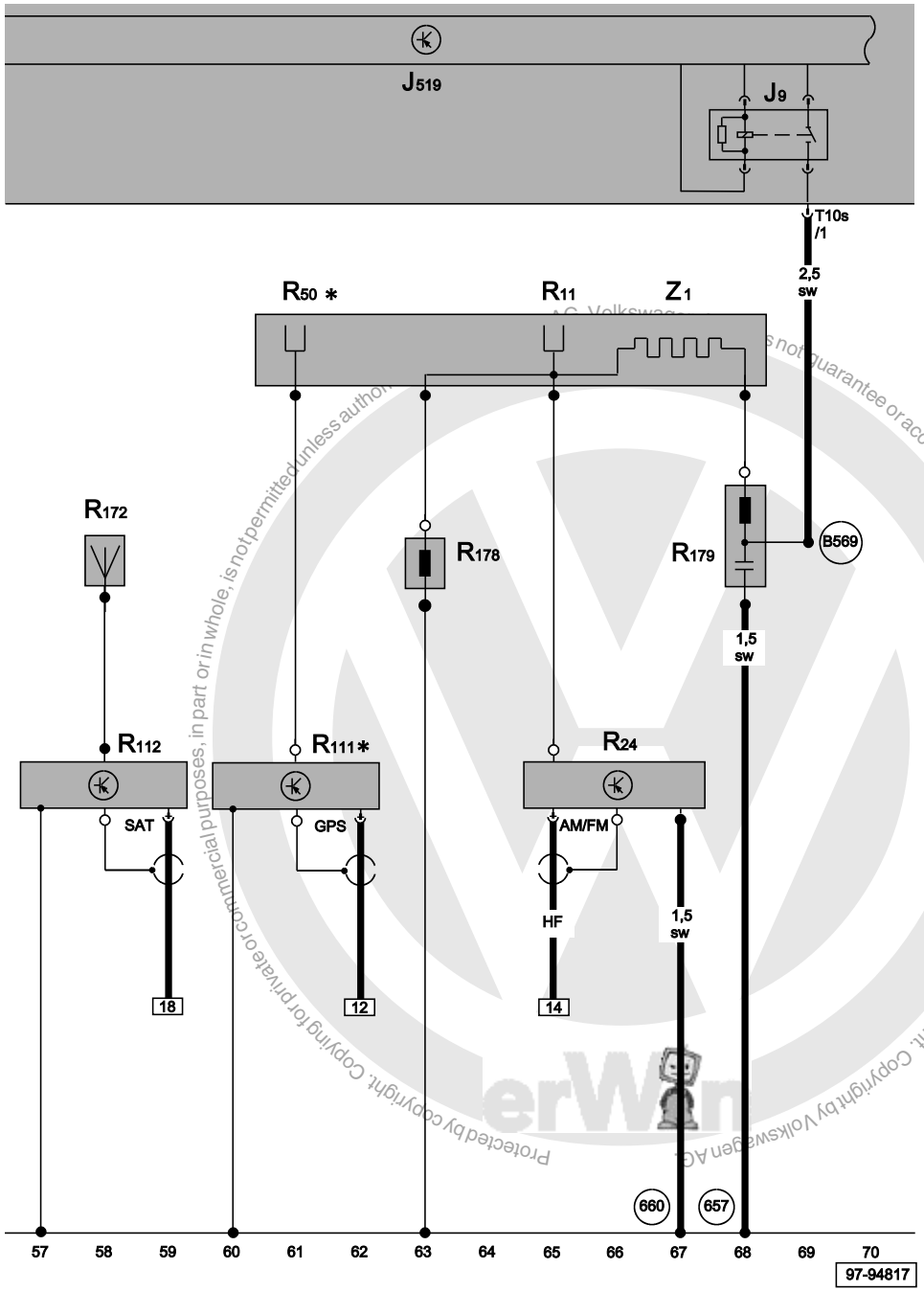


Rear left and right bass and treble loudspeakers, amplifier

J519	Onboard supply control unit
R12	Amplifier, under front passenger seat
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T24	24-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Aerials, aerial amplifier, FM frequency filter

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
R172	Satellite tuner aerial
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36, in main wiring harness
*	Only models with navigation system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Premium radio system with digital satellite radio turner, radio/navigation system with digital satellite radio tuner: RNS MFD2 DVD, CD changer, Dynaudio Sound

From May 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

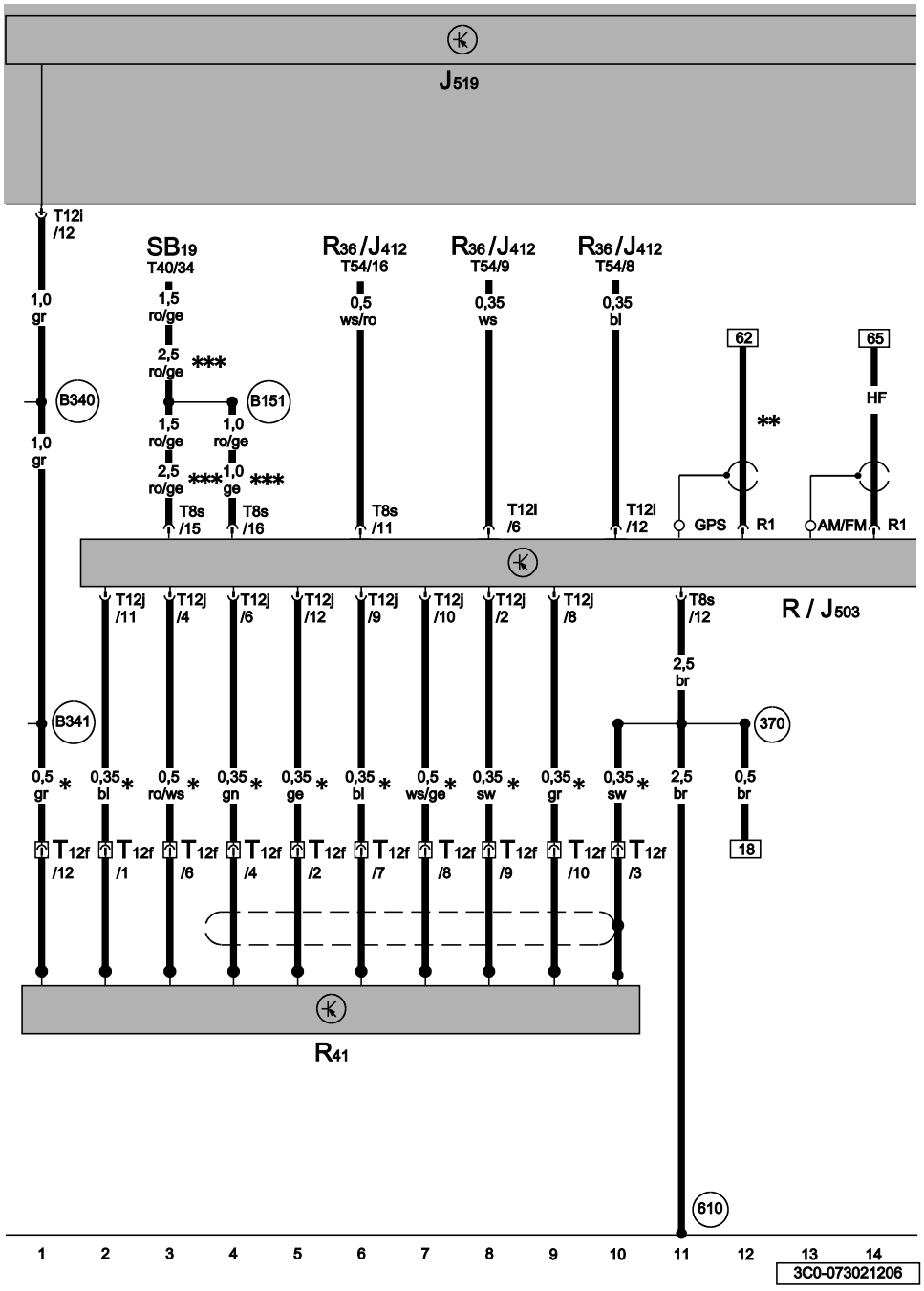
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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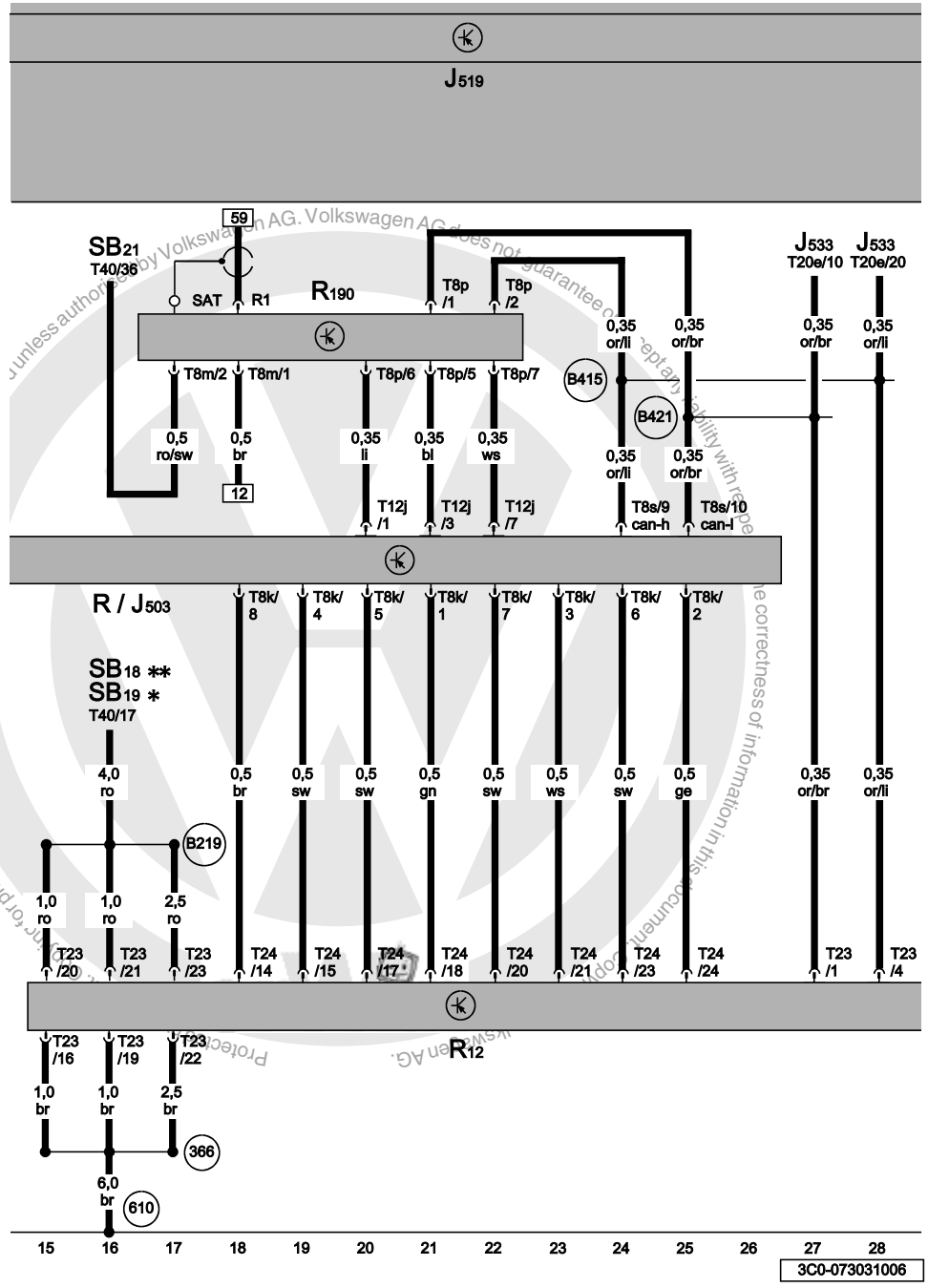


Voltage supply for radio and control unit with display for radio and navigation, CD changer, GPS aerial connection

J412	Mobile telephone operating electronics control unit
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R1	Aerial connection
R36	Telephone transmitter and receiver unit
R41	CD changer
SB19	Fuse 19 on fuse holder B
T8s	8-pin connector, black
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector
T12l	12-pin connector
T40	40-pin connector
T54	54-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), front below centre console
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	for models with CD changer of prepared for external CD changer only
**	models with navigation system only
***	applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Voltage supply for amplifier, radio with control unit with display for radio and navigation, digital satellite radio tuner, aerial connection

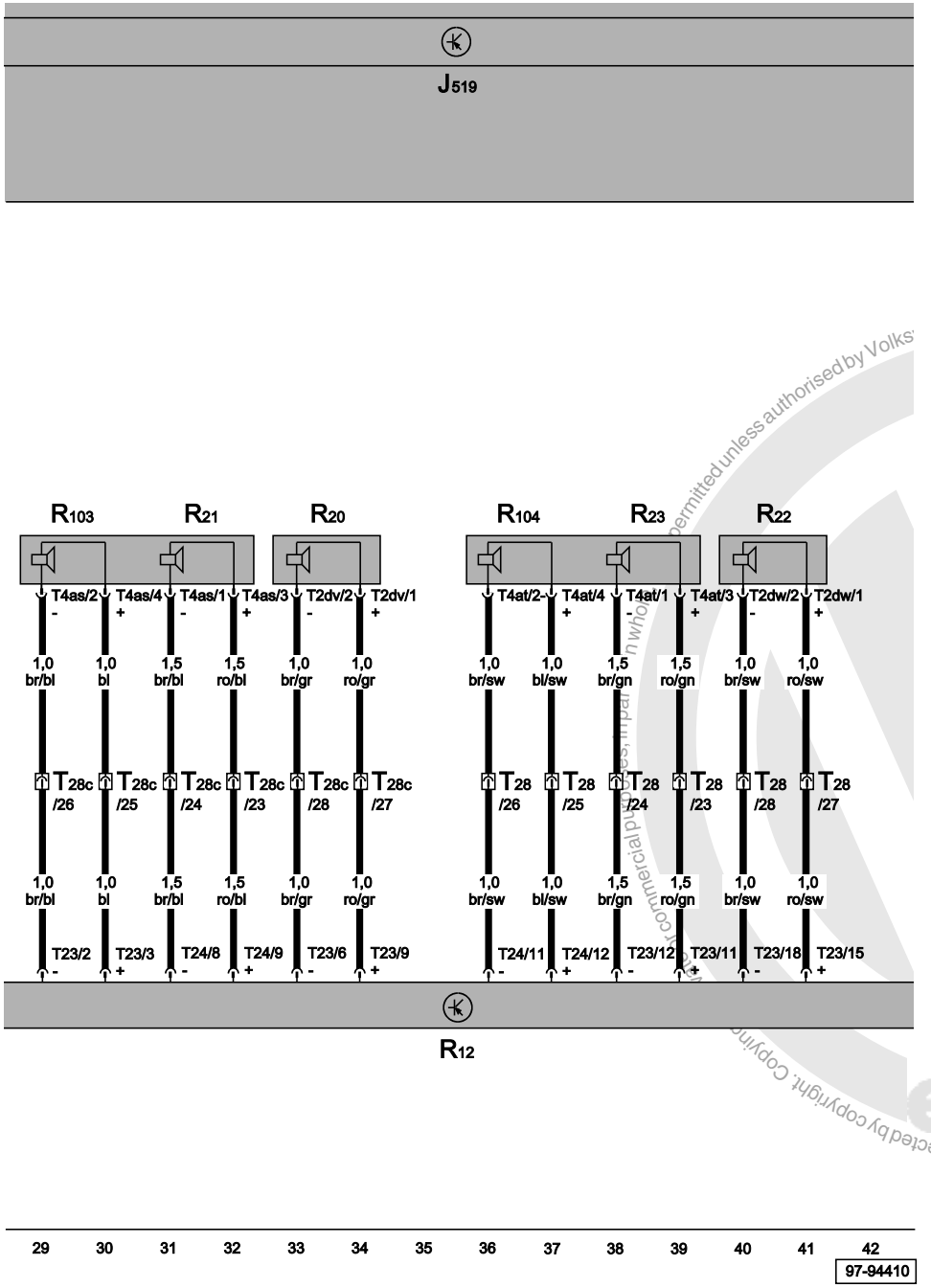
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnostic interface
R	Radio
R1	Aerial connection
R12	Amplifier
R190	Digital radio satellite receiver
SB18	Fuse 18 on fuse holder B
SB21	Fuse 21 on fuse holder B
T8k	8-pin connector, brown
T8m	8-pin connector
T8p	8-pin connector
T8s	8-pin connector, black
T12j	12-pin connector
T20e	20-pin connector
T23	23-pin connector
T24	24-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
610	Earth point (audio), front below centre console
B219	Positive connection 4 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Models with E-box low only
**	Models with E-box high only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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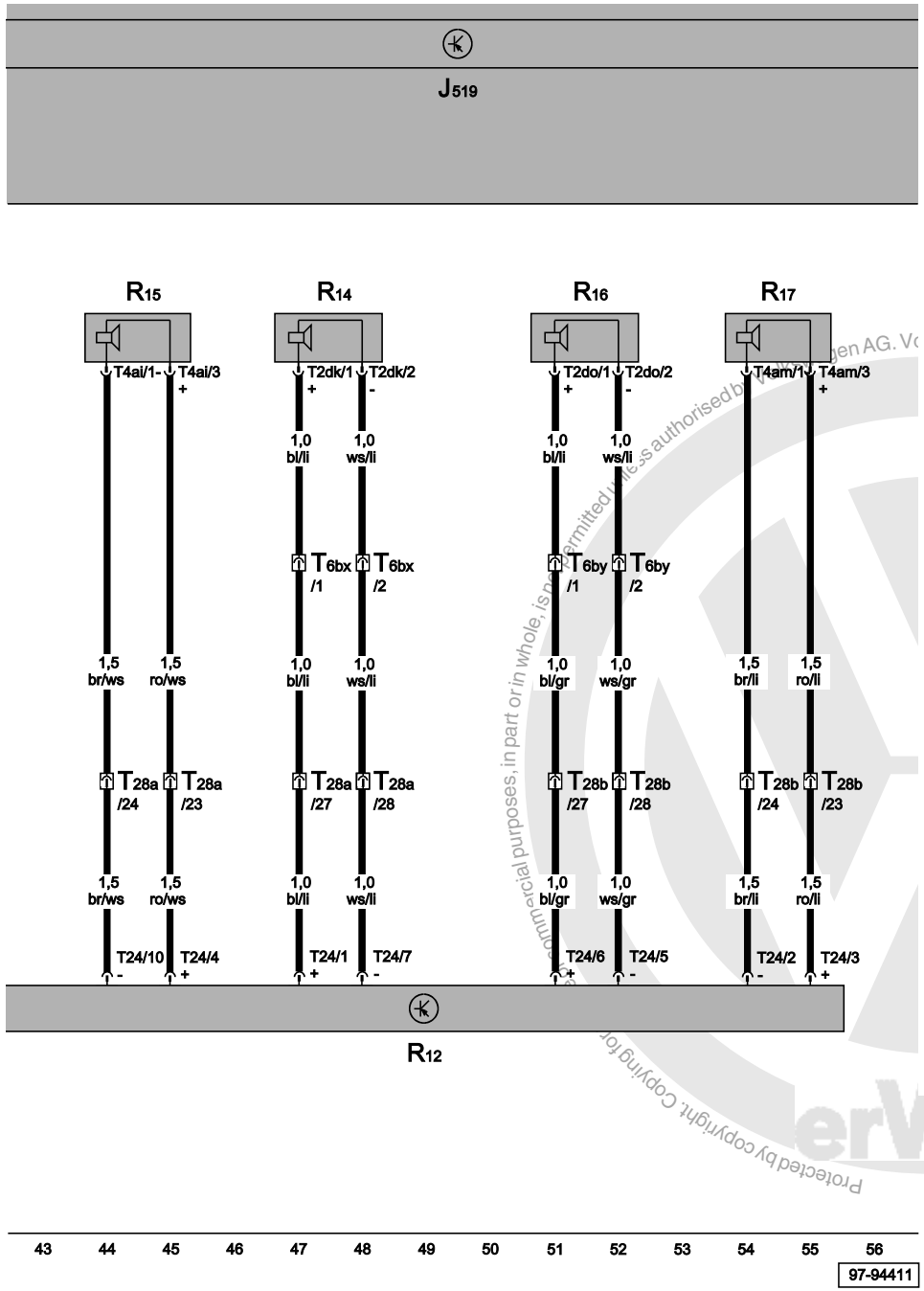
Front left and right treble, mid-range and bass loudspeakers , amplifier

J519	Onboard supply control unit
R12	Amplifier
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R103	Front left mid-range loudspeaker
R104	Front right mid-range loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T23	23-pin connector
T24	24-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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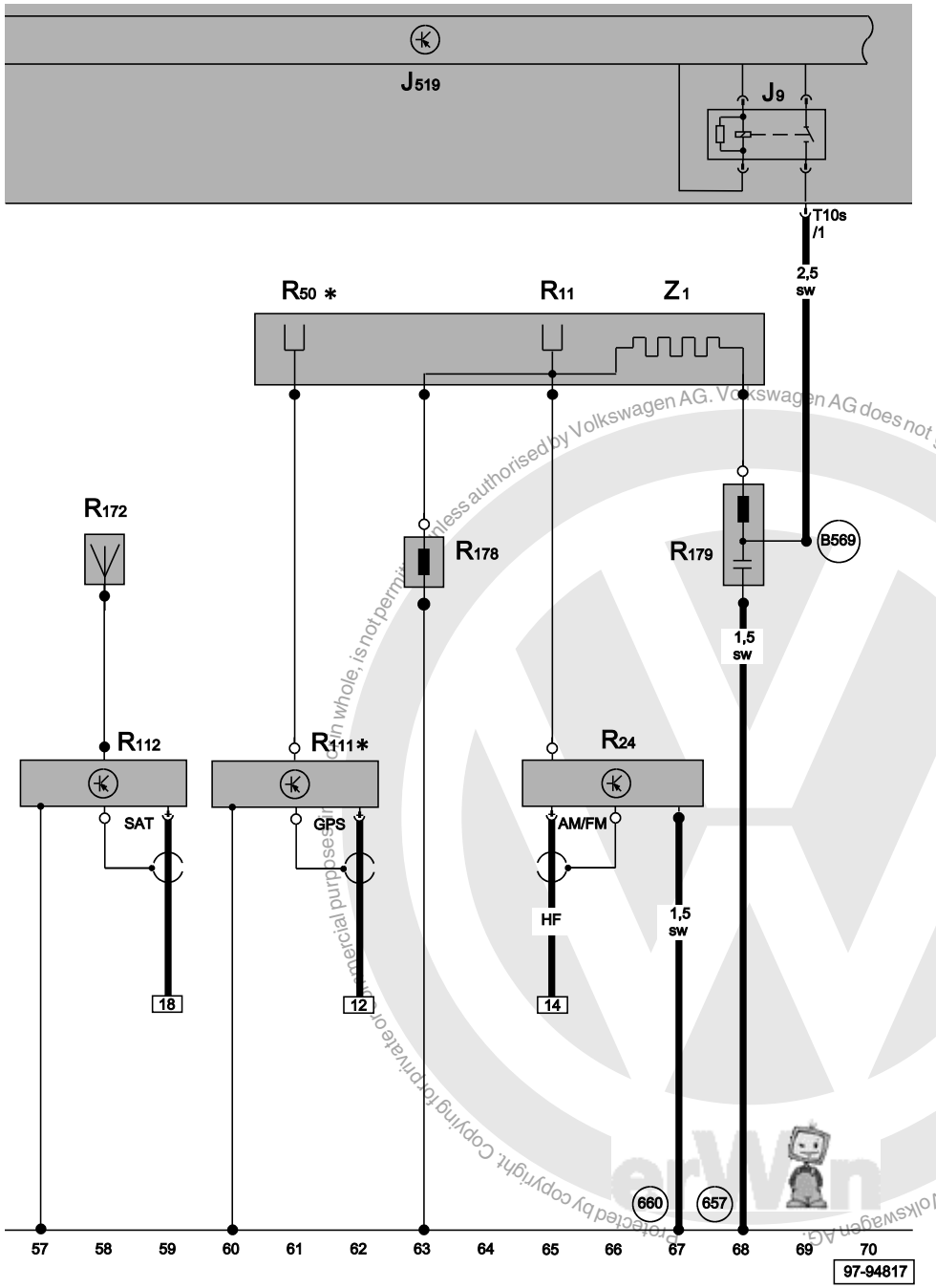


Bass loudspeaker and rear left and right treble loudspeaker, amplifier

J519	Onboard supply control unit
R12	Amplifier
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T24	24-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Aerials, aerial amplifier, FM frequency filter

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
R172	Satellite tuner aerial
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36 in main wiring harness
*	models with navigation system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Radio system: RCD 300 / RCD 500, radio navigation system: RCD 300, CD changer, 4 loudspeakers, 8 loudspeakers, MP3 playback function

From May 2005

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

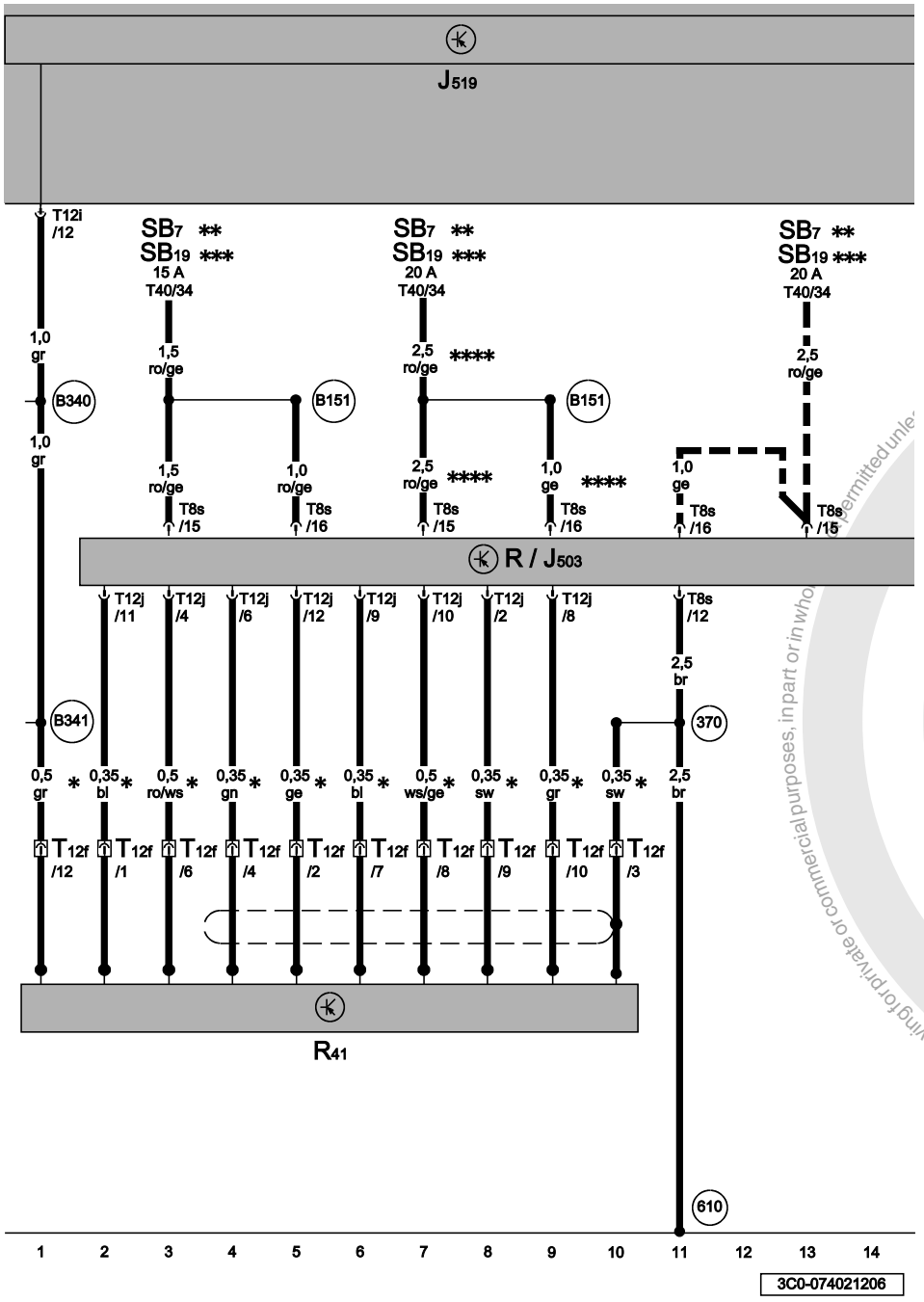
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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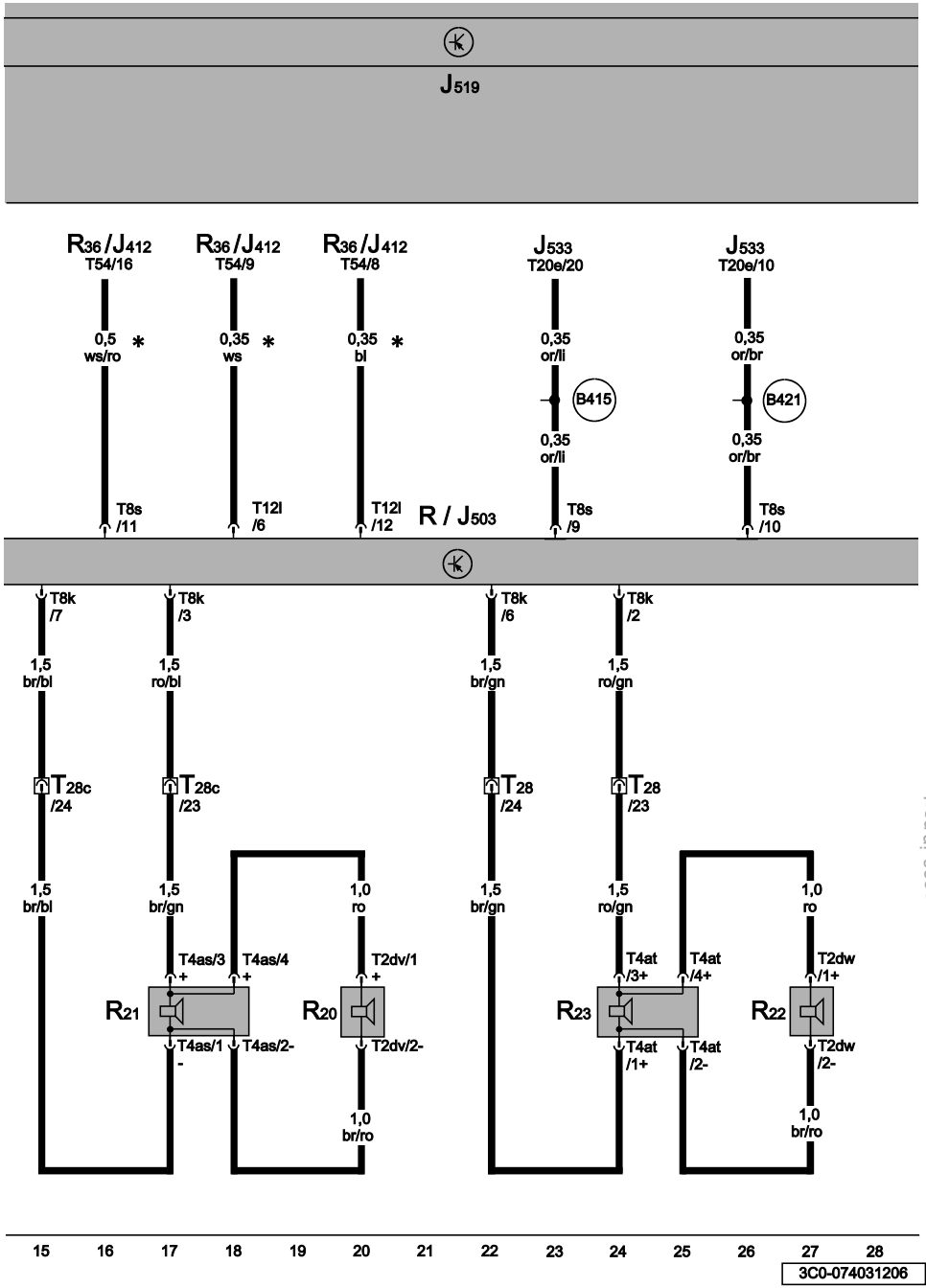


Voltage supply for radio, control unit with display for radio and navigation, CD changer

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R41	CD changer
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T8s	8-pin connector, black
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector
T40	40-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), at front under centre console
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only on vehicles with CD changer preparation for external CD changer
**	Only on vehicles with E-box Low
***	Only on vehicles with E-box High
****	Only on vehicles with radio-navigation system from November 2006
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/m_m.png" content-width="20pt" scaling="uniform"/>	Only on vehicles with radio system from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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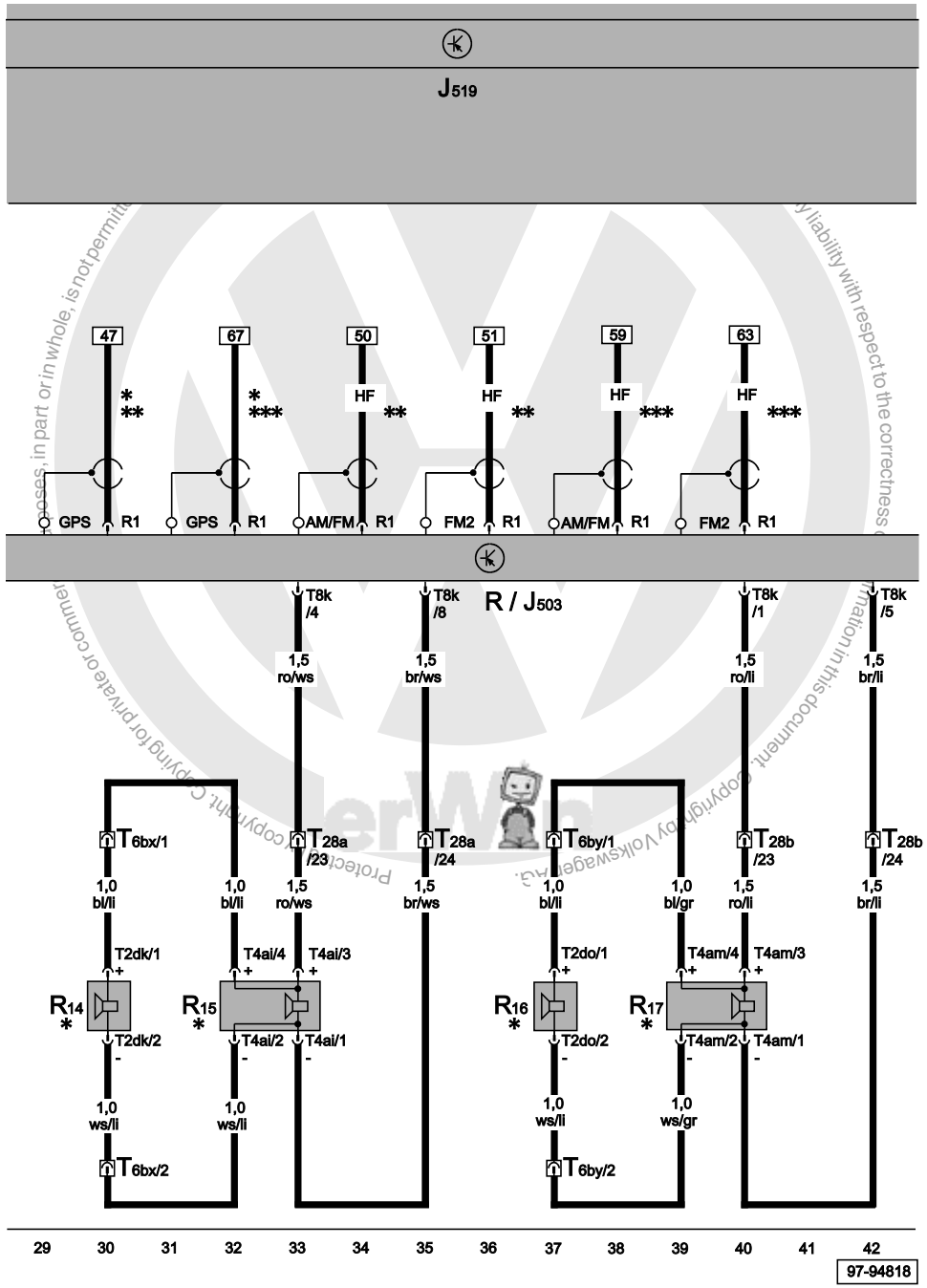


Radio/ control unit with display for radio and navigation, front left and right treble loudspeaker and bass loudspeaker, telephone transmitter and receiver unit

J412	Control unit for cellphone operating electronics
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnosis interface
R	Radio
R36	Telephone transmitter and receiver unit
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T8k	8-pin connector, brown
T8s	8-pin connector, black
T12l	12-pin connector
T20e	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T54	54-pin connector
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only on vehicles with telephone

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

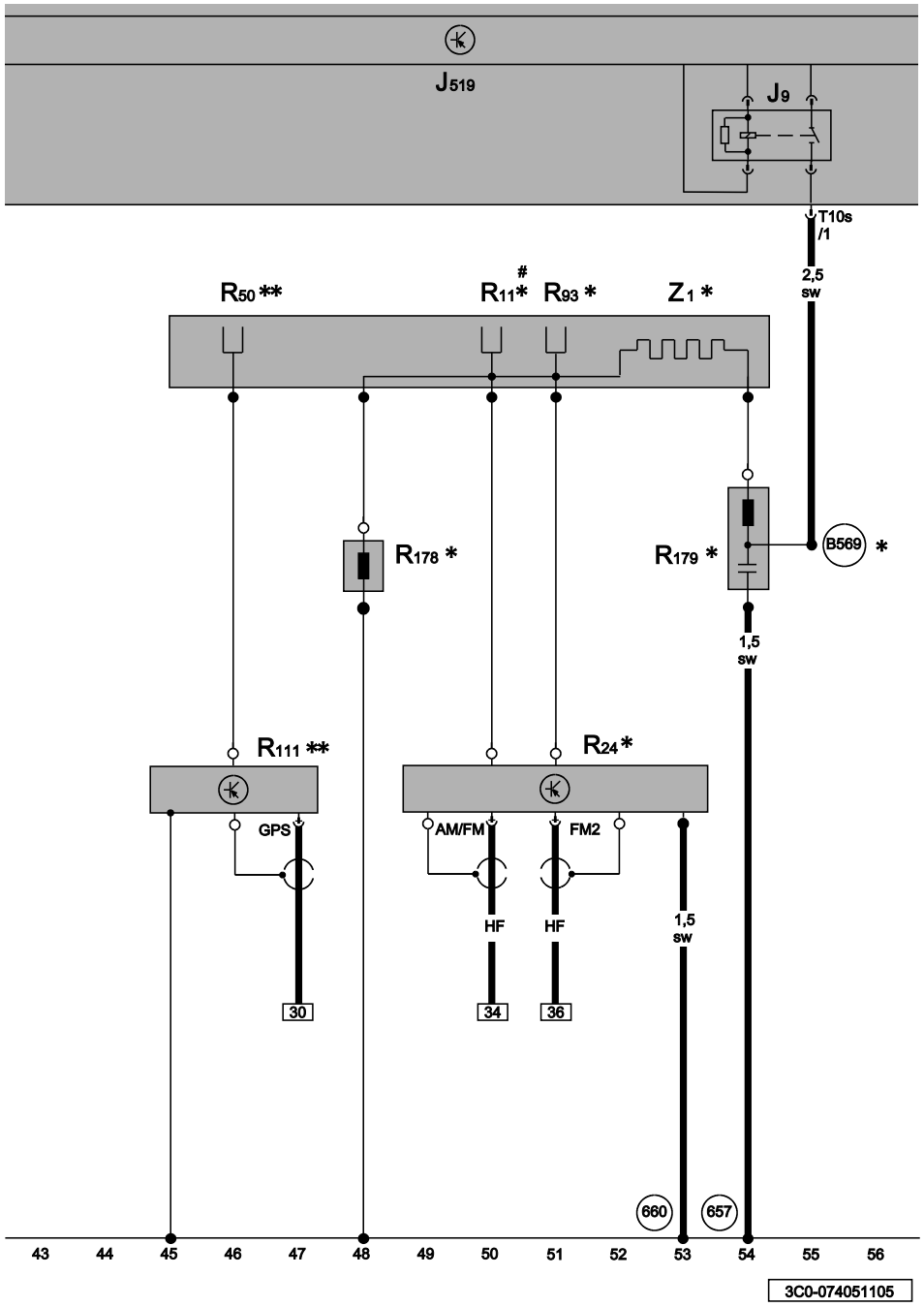
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Radio/ control unit with display for radio and navigation, rear left and right treble loudspeaker and bass loudspeaker, aerial connection

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R1	Aerial connection
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T8k	8-pin connector, brown
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
*	Depends on equipment
**	Only on saloon models
***	Only on estate models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

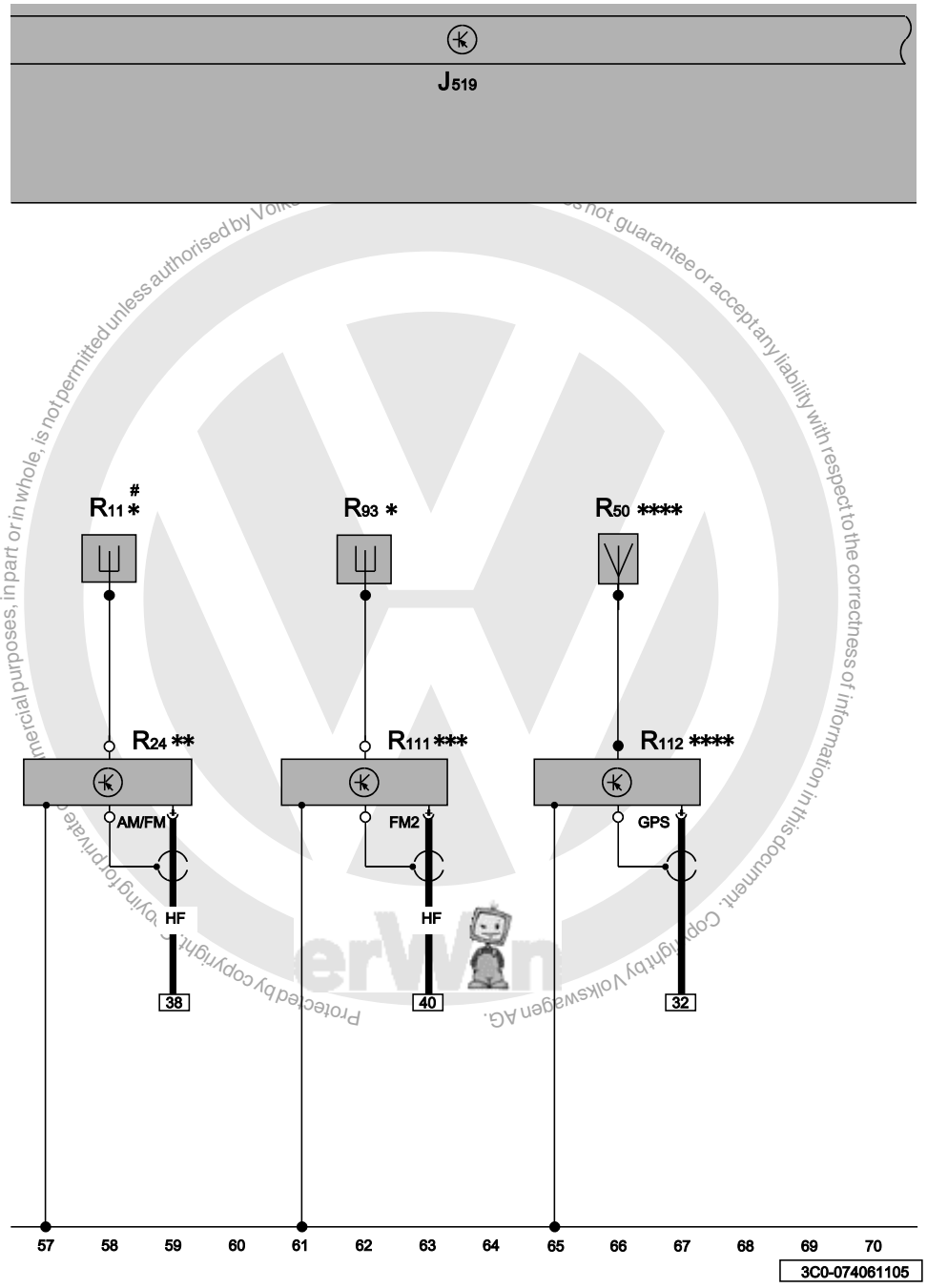


Aerials (saloon), aerial amplifier, frequency filter for frequency modulation

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36 in main wiring harness
*	Only on saloon models
**	Only saloon models with navigation system
#	Only RNS 300

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Aerials (estate), aerial amplifier

J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
*	Only on estate models
**	Only on estate models, in left C-pillar
***	Only on estate models, in right C-pillar
****	Only estate models with navigation system
#	Only RNS 300

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Radio system: RCD 500, radio/navigation system: RNS MFD2 DVD, CD changer, Volkswagen Sound, Dynaudio Sound

From May 2005

Notes:

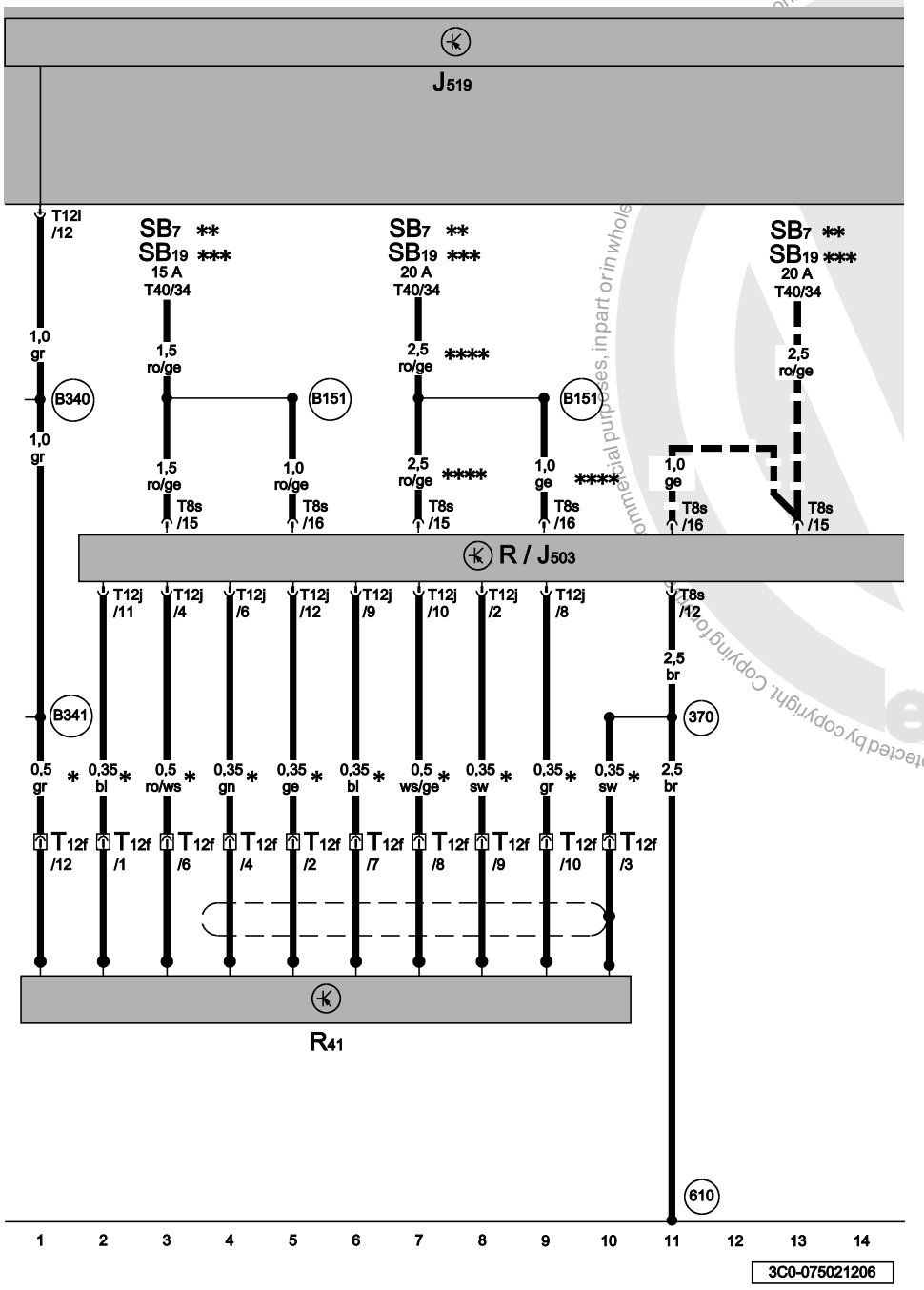
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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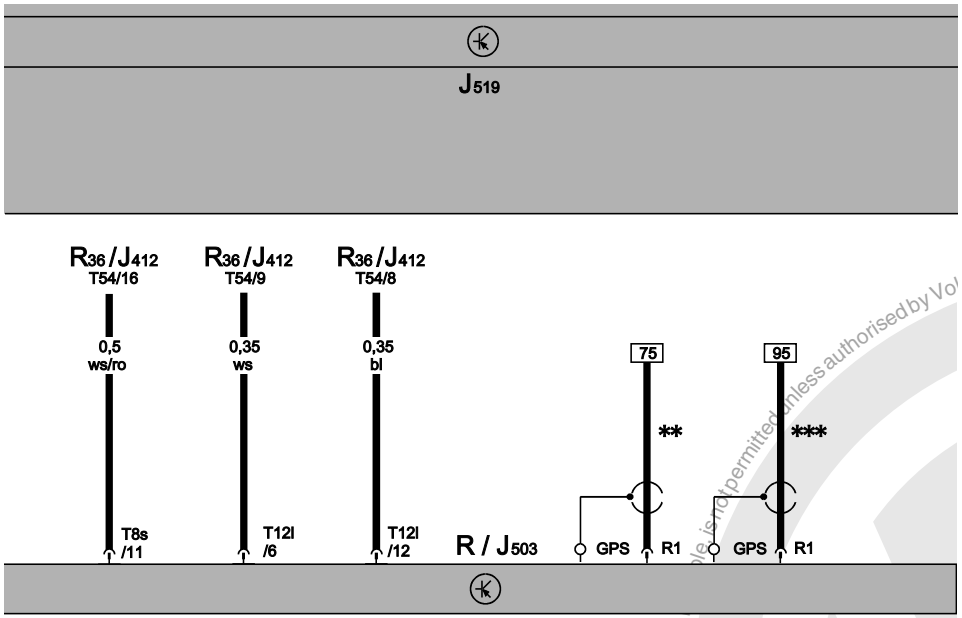


Voltage supply for radio, control unit with display for radio and navigation, CD changer

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R41	CD changer
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T8s	8-pin connector, black
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector
T40	40-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), front below centre console
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	for models with CD changer of prepared for external CD changer only
**	Models with E-box low only
***	Models with E-box high only
****	Only models with radio/navigation system from November 2006
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/m_m.png" content-width="20pt" scaling="uniform"/>	Only models with radio system from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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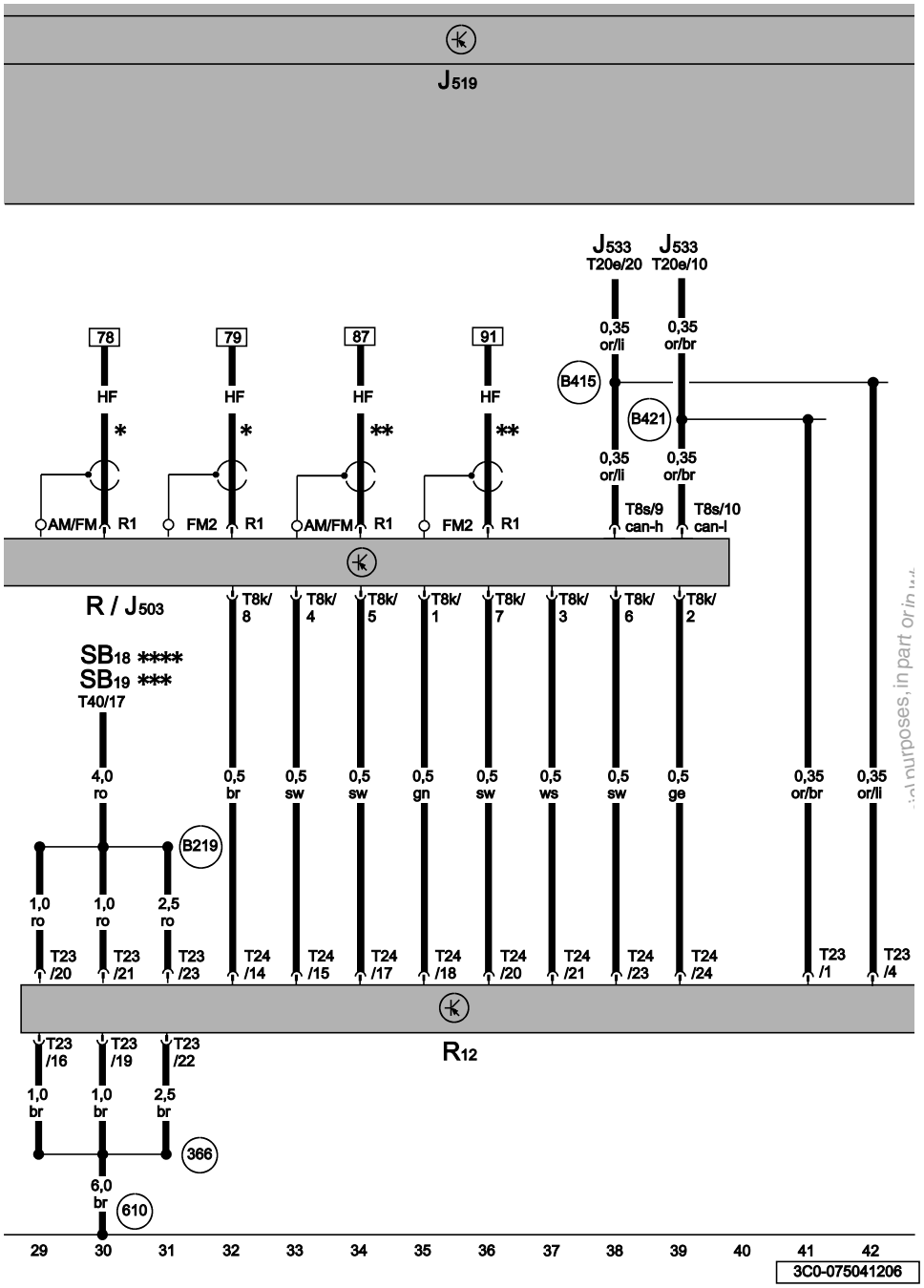


Mobile telephone operating electronics control unit, radio and control unit with display for radio and navigation, aerial connection

J412	Mobile telephone operating electronics control unit
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R1	Aerial connection
R36	Telephone transmitter and receiver unit
T8s	8-pin connector, black
T12l	12-pin connector
T54	54-pin connector
**	only saloon with navigation system
***	Variant with navigation system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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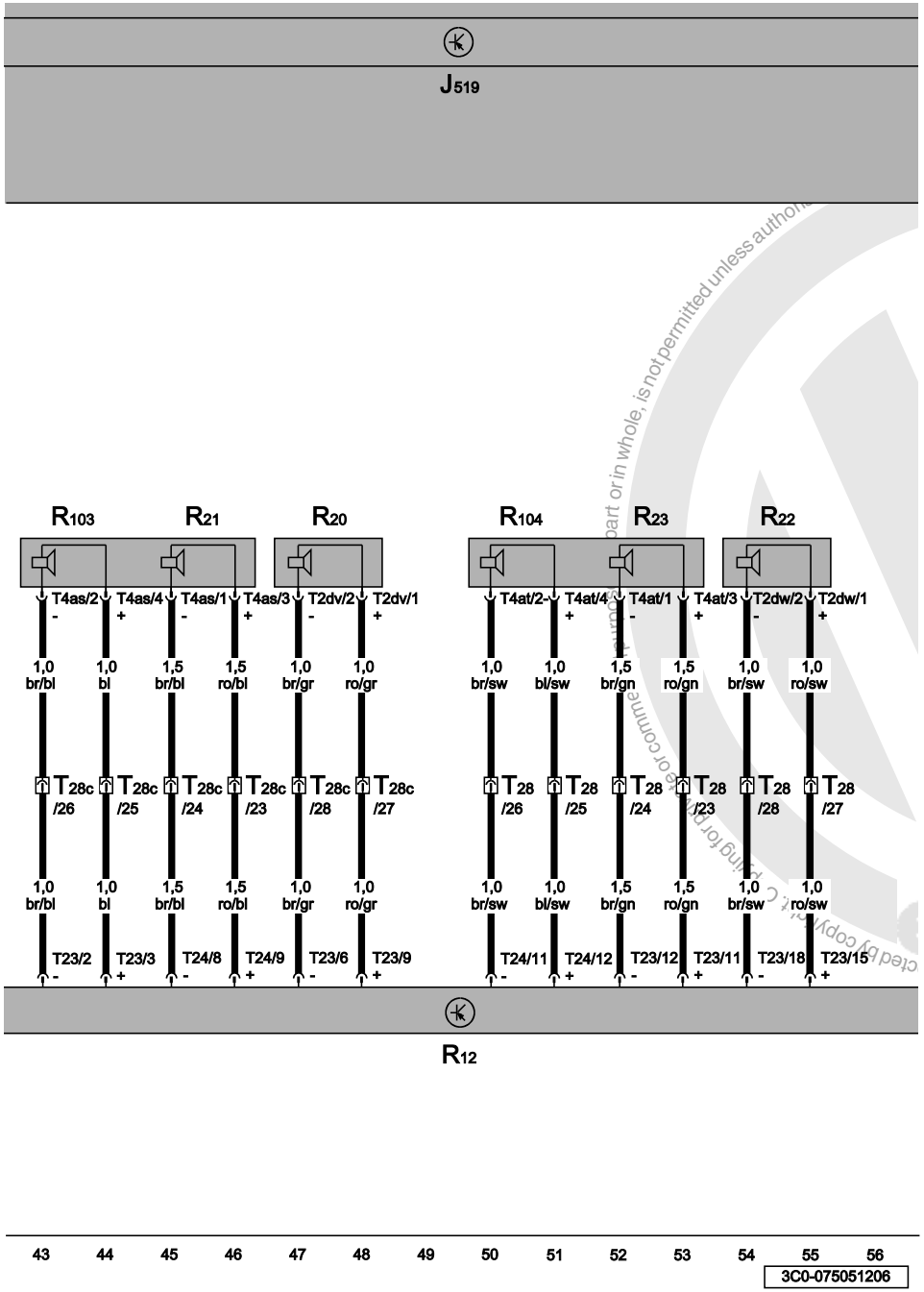


Voltage supply for amplifier, radio and control unit with display for radio and navigation, aerial connection

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnostic interface
R	Radio
R1	Aerial connection
R12	Amplifier
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T8k	8-pin connector, brown
T8s	8-pin connector, black
T20e	20-pin connector
T23	23-pin connector
T24	24-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
610	Earth point (audio), front below centre console
B219	Positive connection 4 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	only saloon models
**	only Variant
***	Models with E-box low only
****	Models with E-box high only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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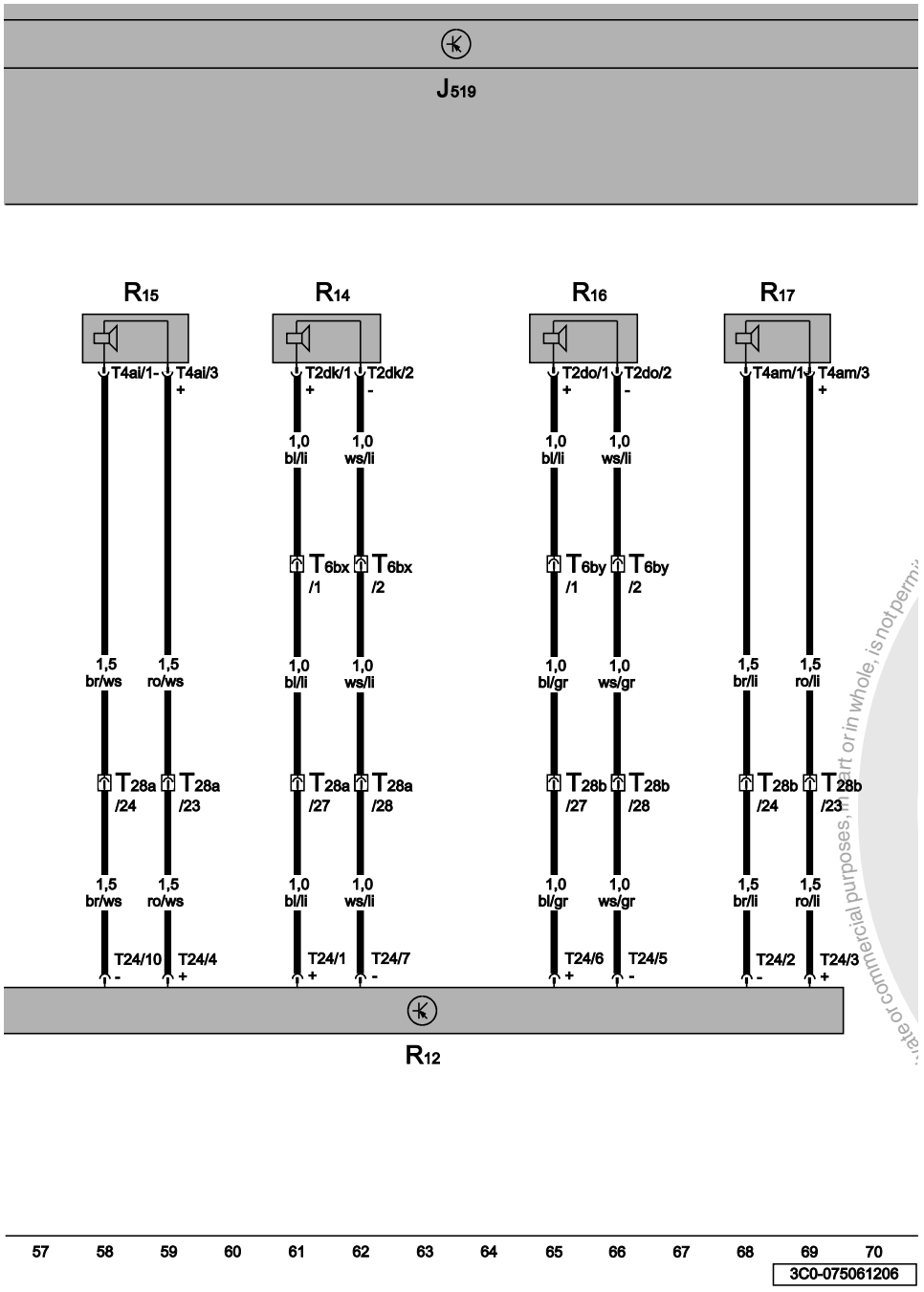


Front left and right treble, mid-range and bass loudspeakers , amplifier

J519	Onboard supply control unit
R12	Amplifier
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R103	Front left mid-range loudspeaker
R104	Front right mid-range loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T23	23-pin connector
T24	24-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar

ws	=	white
sw	=	black
ro	=	red
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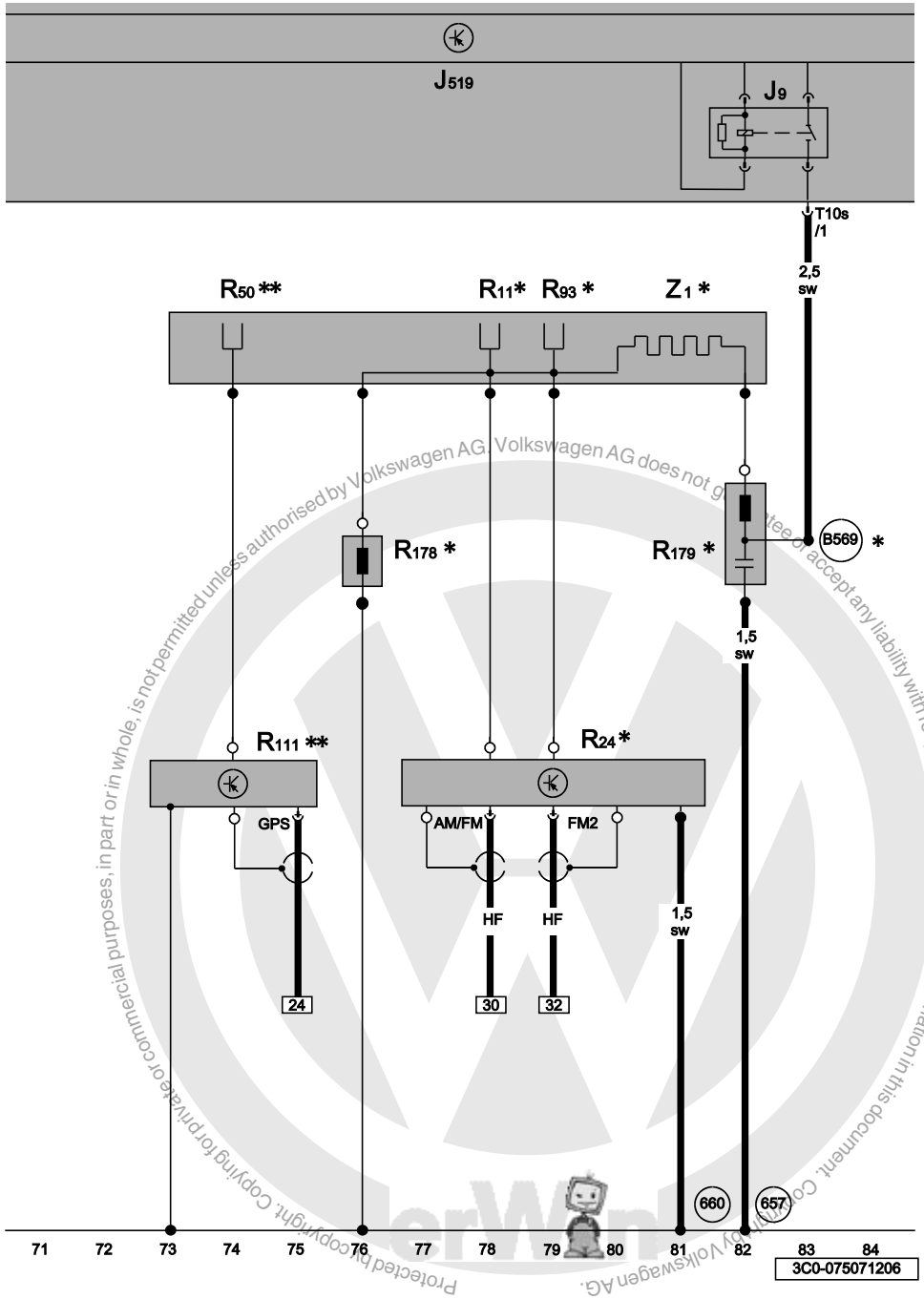


Bass loudspeaker and rear left and right treble loudspeaker, amplifier

J519	Onboard supply control unit
R12	Amplifier
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T24	24-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar

ws	=	white
sw	=	black
ro	=	red
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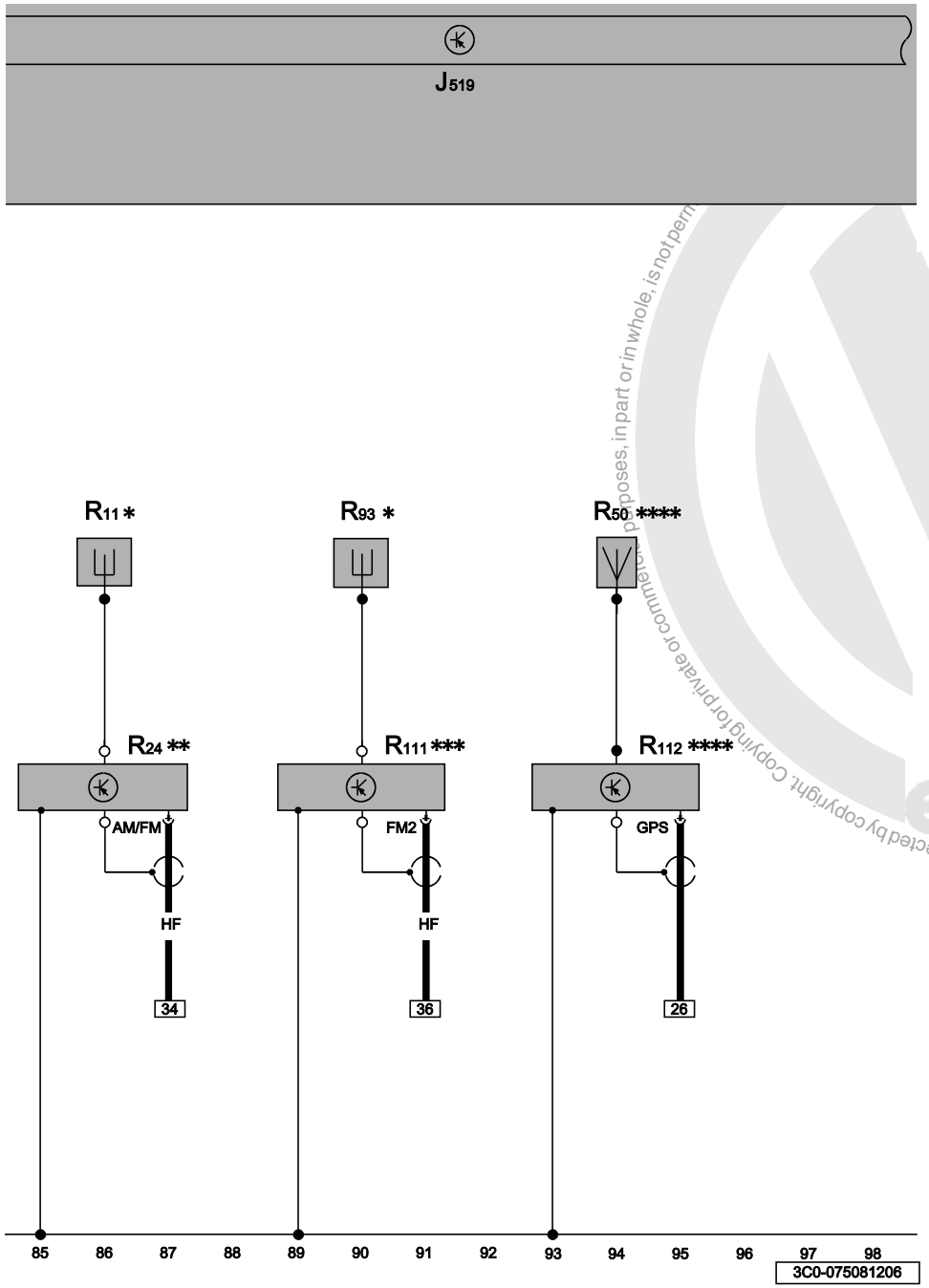
Aerials (saloons), aerial amplifier, FM frequency filter

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36 in main wiring harness
*	only saloon models
**	only saloon with navigation system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

Aerials (Variant), aerial amplifier

J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
*	only Variant
**	only Variant, in left C-pillar
***	only Variant, in right C-pillar
****	Variant with navigation system only



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Entry and start authorisation

⇒ **Keyless entry**

From May 2005

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

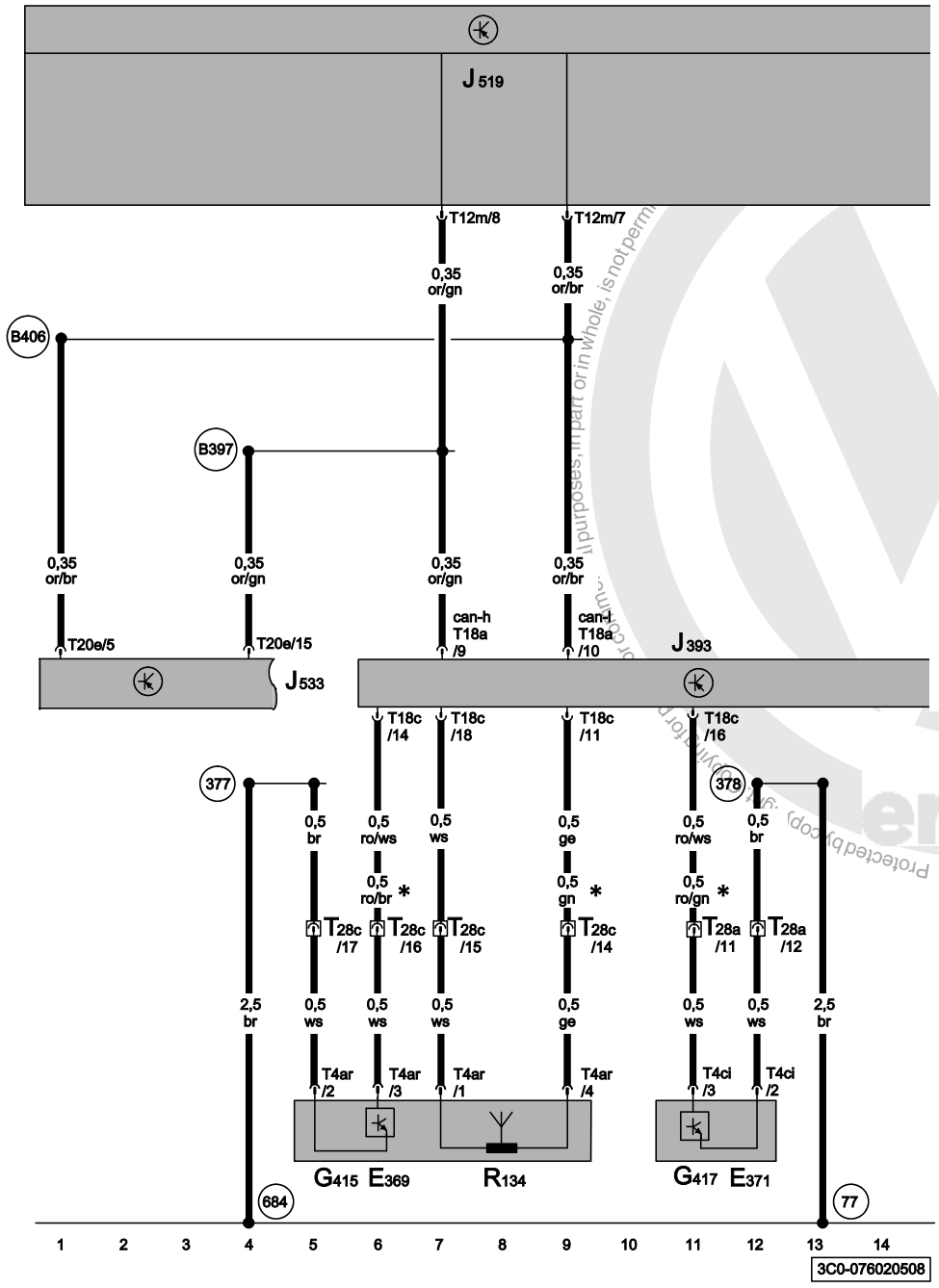
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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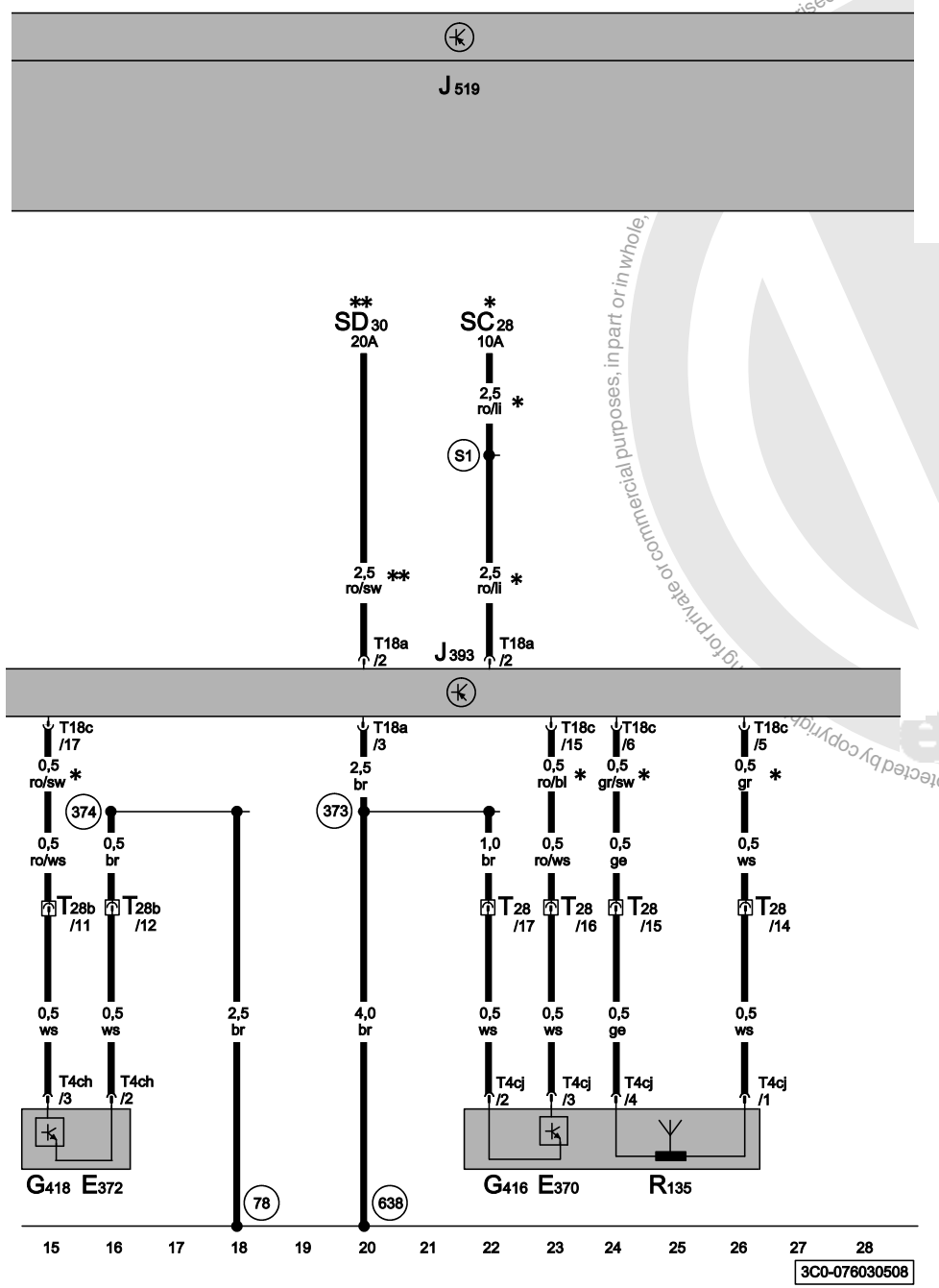
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li = purple
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rs = pink

Central control unit for convenience system, exterior handle touch sensor, aerial for entry and start authorisation driver side

E369	Driver door exterior handle central locking button
E371	Rear left door exterior handle central locking button
G415	Driver door exterior handle touch sensor
G417	Rear left door exterior handle touch sensor
J393	Convenience system central control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
R134	Driver side aerial for entry and start authorisation
T4ar	4-pin connector
T4ci	4-pin connector
T12m	12-pin connector
T18a	18-pin connector
T18c	18-pin connector
T20e	20-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28c	28-pin connector, coupling point, left A-pillar
77	Earth point, lower part of left B-pillar
377	Earth connection 12, in main wiring harness
378	Earth connection 13, in main wiring harness
684	Earth point, on front of left side member
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Applicable from May 2008

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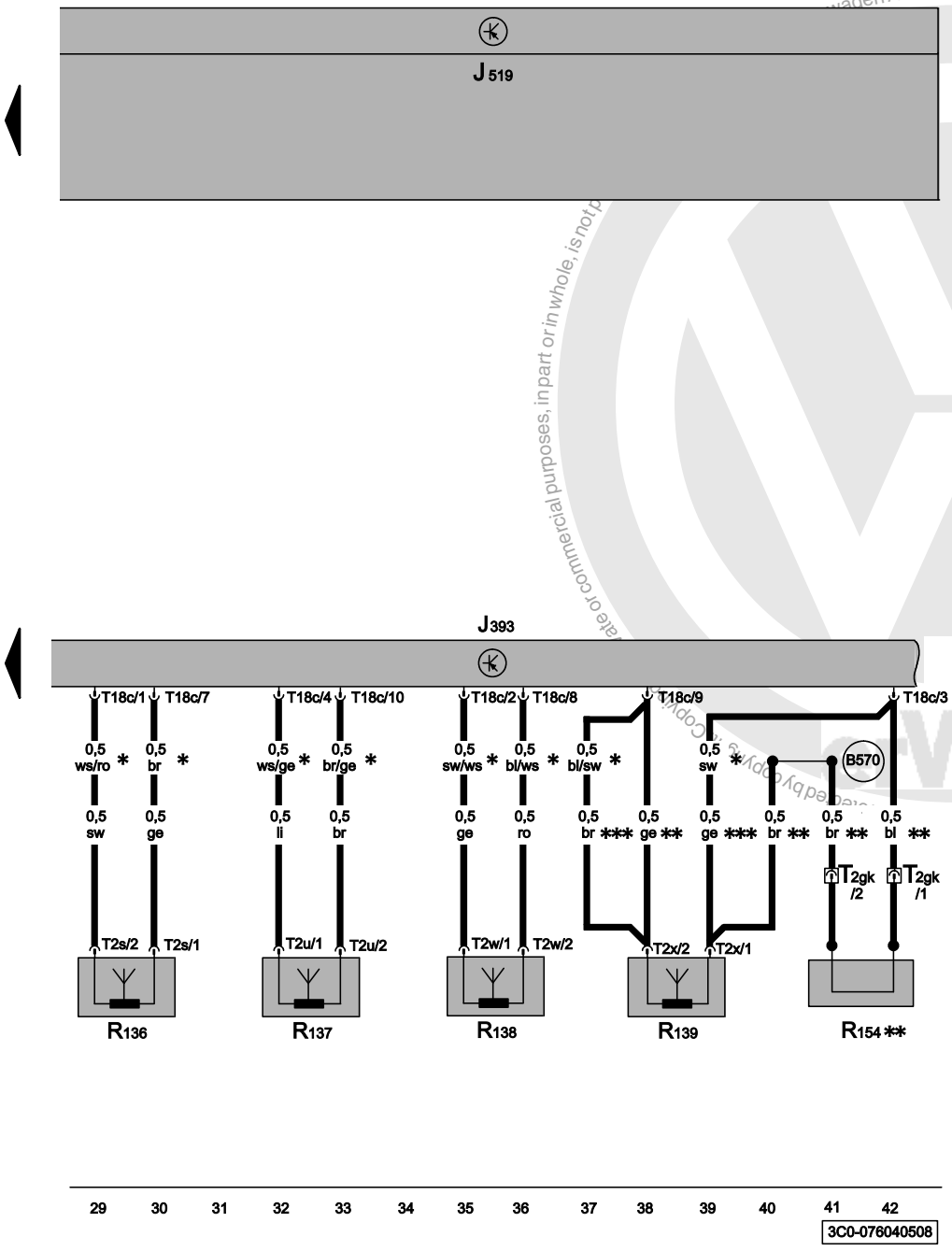
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Central control unit for convenience system, exterior handle touch sensor, aerial for entry and start authorisation front passenger side, button for central locking in exterior door handle

E370	Front passenger door exterior handle central locking button
E372	Rear right door exterior handle central locking button
G416	Front passenger door exterior handle touch sensor
G418	Rear right door exterior door handle touch sensor
J393	Convenience system central control unit
J519	Onboard supply control unit
R135	Front passenger side aerial for entry and start authorisation
SC28	Fuse 28 on fuse holder C
SD30	Fuse 30 on fuse holder D
T4ch	4-pin connector
T4cj	4-pin connector
T18a	18-pin connector
T18c	18-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28b	28-pin connector, coupling point, right B-pillar
78	Earth point, lower part of right B-pillar
373	Earth connection 8, in main wiring harness
374	Earth connection 9, in main wiring harness
638	Earth point, on right A-pillar
S1	Positive connection (30), in central locking wiring harness
*	Applicable from May 2008
**	Applicable to April 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Convenience system central control unit, aerials for entry and start authorisation

J393	Convenience system central control unit
J519	Onboard supply control unit
R136	Rear bumper aerial for entry and start authorisation
R137	Luggage compartment aerial for entry and start authorisation
R138	Interior aerial 1 for entry and start authorisation (front)
R139	Interior aerial 2 for entry and start authorisation (rear)
R154	Aerial 3 in interior (near rear shelf) for entry and start authorisation
T2gk	2-pin connector
T2s	2-pin connector
T2u	2-pin connector
T2w	2-pin connector
T2x	2-pin connector
T18c	18-pin connector
B570	Connection 37, in main wiring harness
*	Applicable from May 2008
**	Only saloon models
***	Only Variant

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bl	=	blue
gr	=	grey
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Airbag systems, 12 igniter circuits

⇒ **Belt tensioner**
⇒ **Side airbag**
⇒ **Curtain airbag**

From November 2004

Notes:

For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

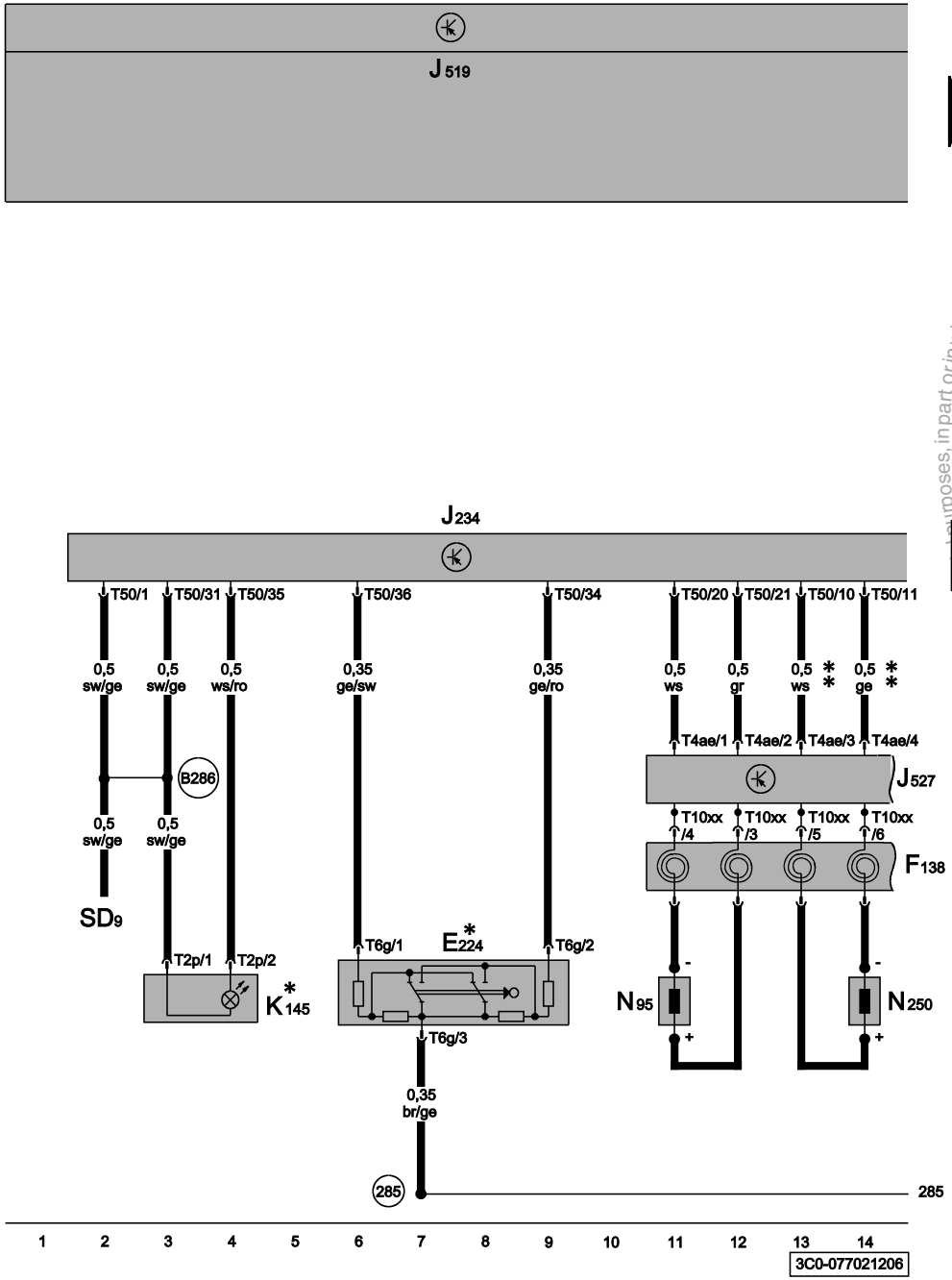
⇒ Overview of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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Airbag control unit, driver side airbag igniter, warning light and key operated switch to deactivate front passenger side airbag, airbag coil connector and return spring with slip ring



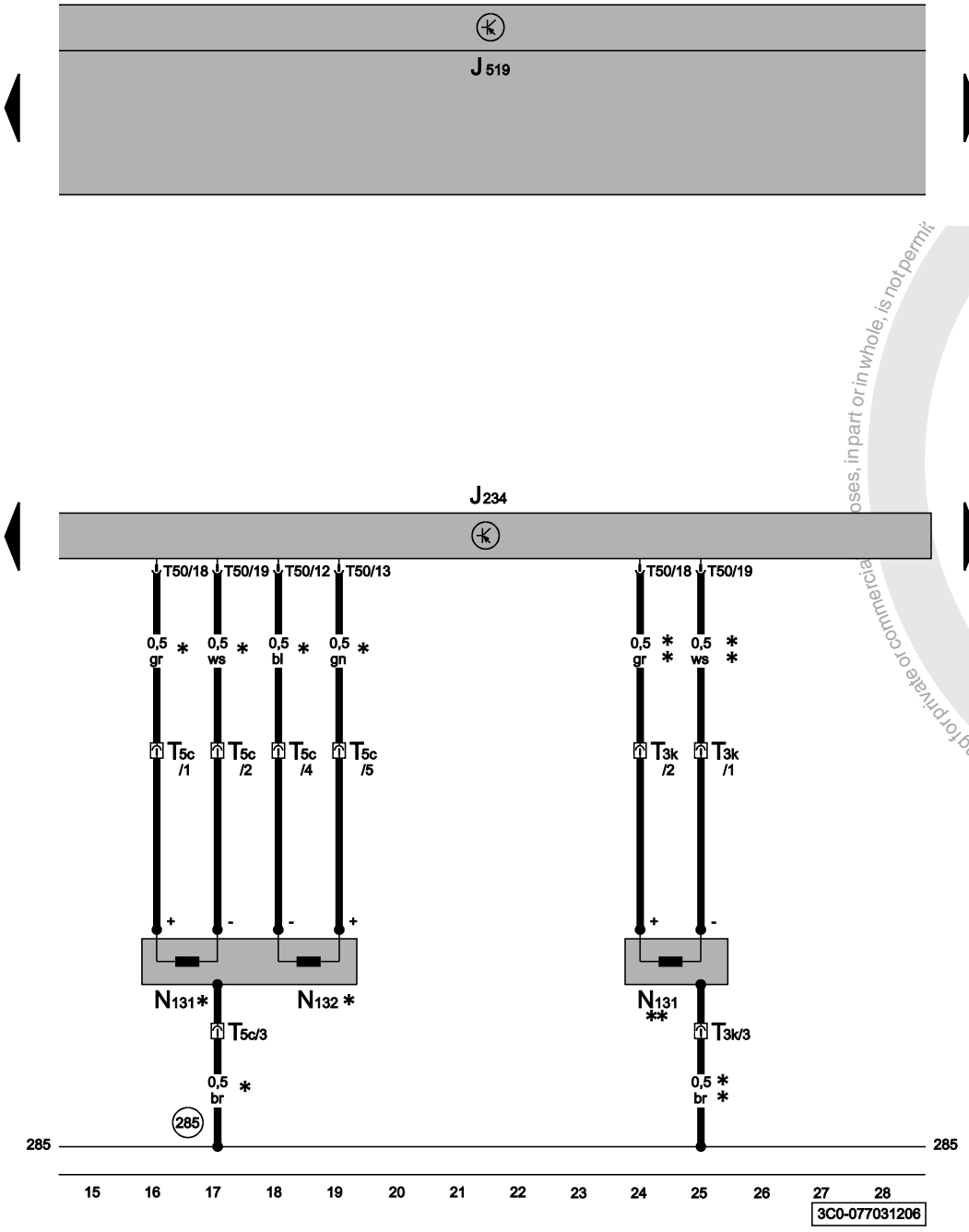
E224	Key operated switch to deactivate front passenger side airbag
F138	Airbag coil connector and return ring with slip ring
J234	Airbag control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
K145	Front passenger side airbag deactivated warning lamp
N95	Driver side airbag igniter
N250	Driver side airbag igniter 2
SD9	Fuse 9 on fuse holder D
T2p	2-pin connector
T4ae	4-pin connector, yellow, on steering column
T6g	6-pin connector
T10xx	10-pin connector
T50	50-pin connector
(285)	Earth connection 7, in interior wiring harness
(B286)	Connection 10 (15a), in main wiring harness
*	Only models with deactivation of front passenger airbag
**	Applicable up to October 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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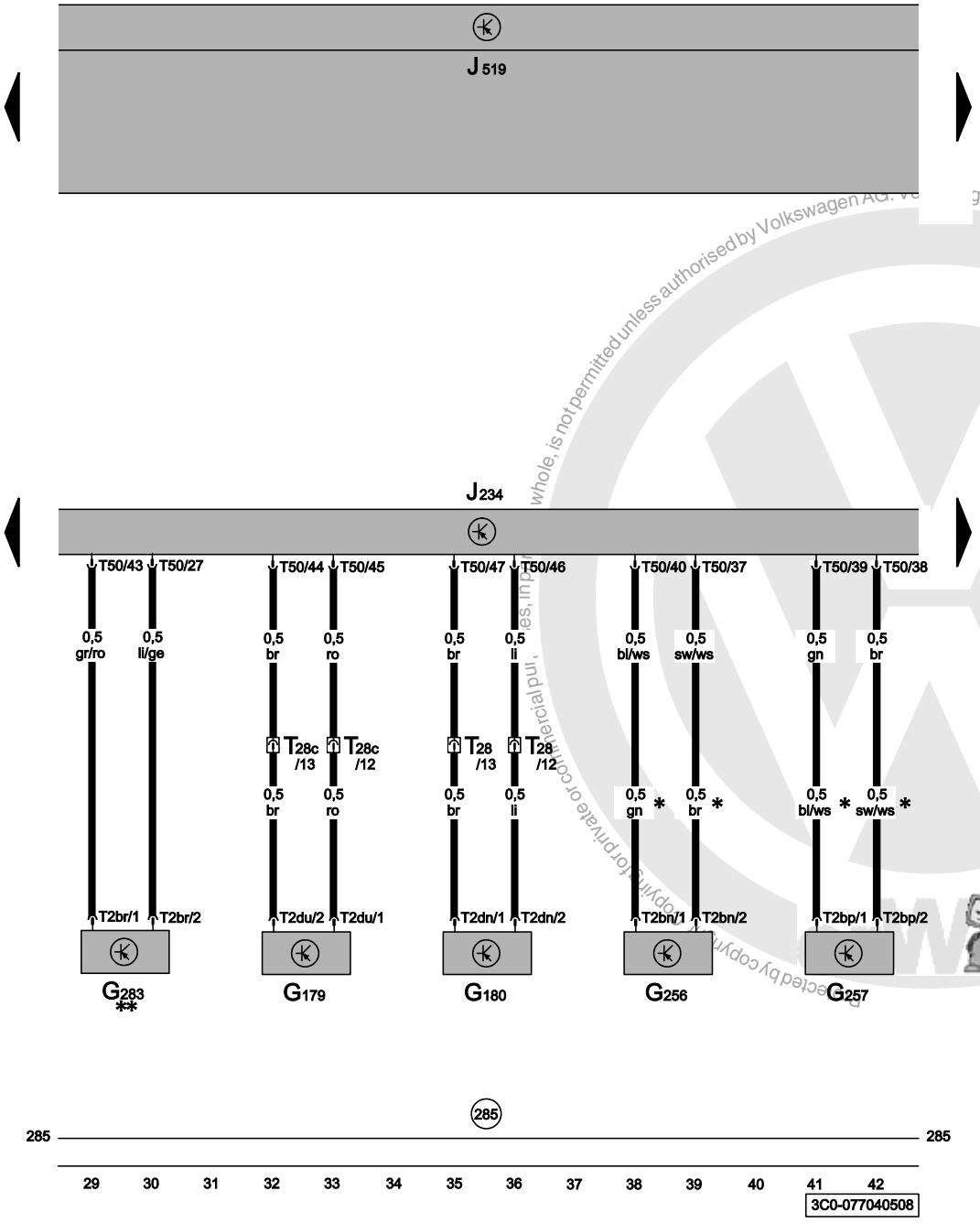
Airbag control unit, igniter for front passenger airbag

J234	Airbag control unit
J519	Onboard supply control unit
N131	Front passenger side airbag igniter 1
N132	Front passenger side airbag igniter 2
T3k	3-pin connector, yellow, behind glove compartment
T5c	5-pin connector, yellow, behind glove compartment
T50	50-pin connector
285	Earth connection 7, in interior wiring harness
*	Applicable up to October 2006
**	Applicable from November 2006



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gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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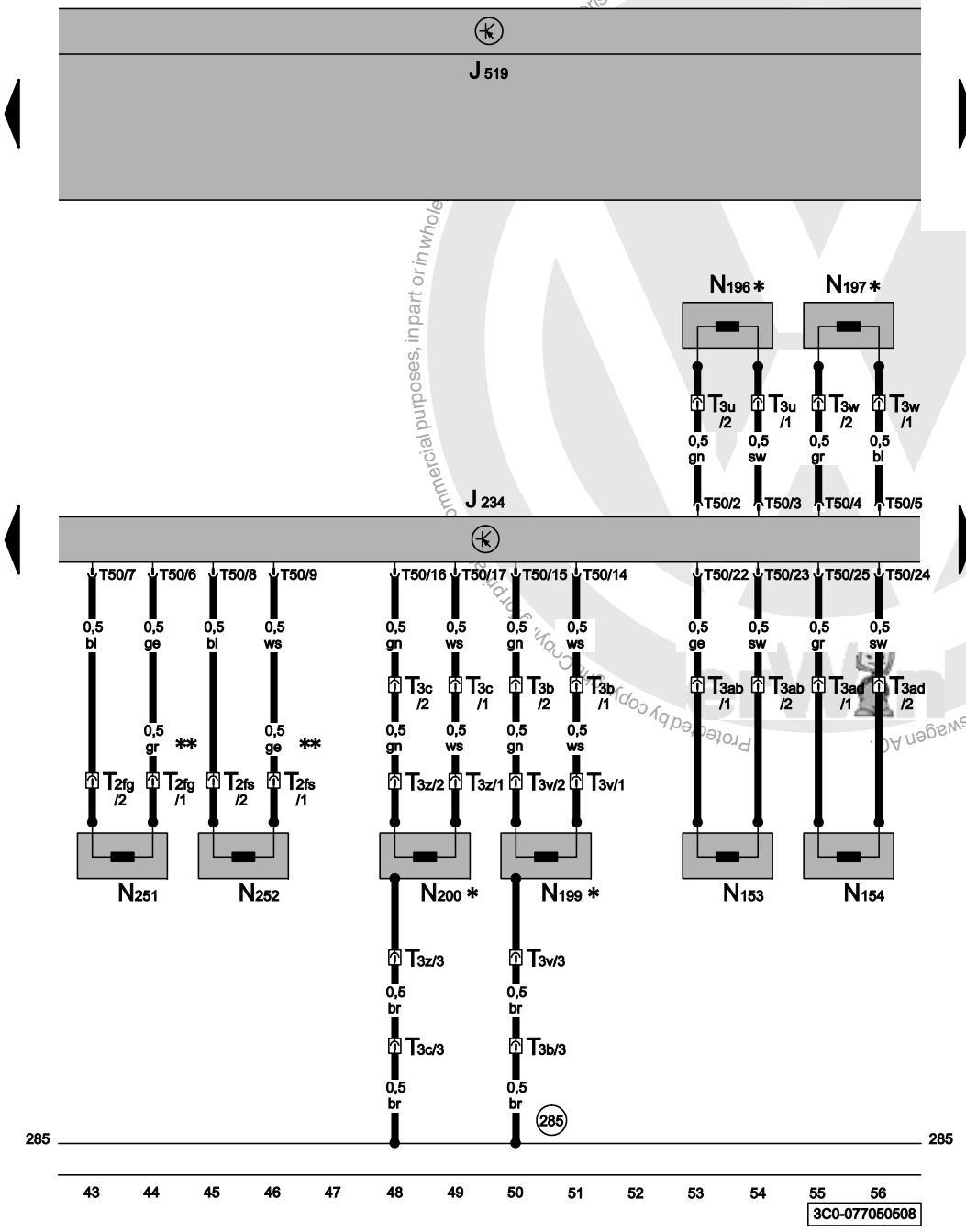


Airbag control unit, crash sensor for front airbag on driver side, crash sensor for side airbag

G179	Side airbag crash sensor on driver side
G180	Side airbag crash sensor on front passenger side
G256	Rear side airbag crash sensor on driver side
G257	Rear side airbag crash sensor on front passenger side
G283	Front airbag crash sensor for driver side
J234	Airbag control unit
J519	Onboard supply control unit
T2bn	2-pin connector, yellow
T2bp	2-pin connector, yellow
T2br	2-pin connector, yellow
T2dn	2-pin connector, yellow
T2du	2-pin connector, yellow
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T50	50-pin connector
285	Earth connection 7, in interior wiring harness
*	Only right-hand drive
**	Up to May 2006

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sw	=	black
ro	=	red
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gn	=	green
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gr	=	grey
li	=	purple
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or	=	orange
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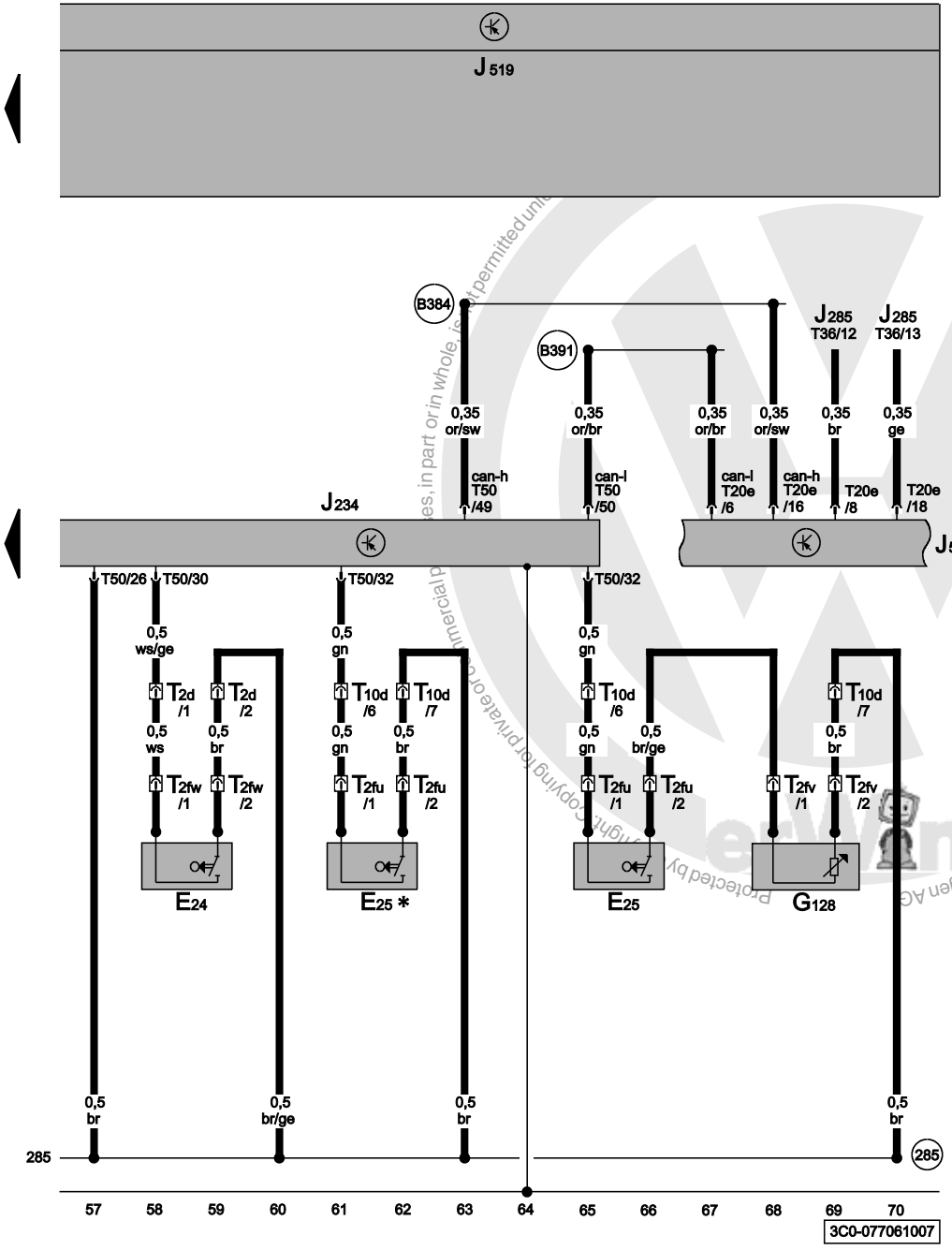
Airbag control unit, belt tensioner igniter 1, side airbag igniter, curtain airbag igniter, rear centre belt tensioner igniter

J234	Airbag control unit
J519	Onboard supply control unit
N153	Driver seat belt tensioner igniter 1
N154	Front passenger seat belt tensioner igniter 1
N196	Rear belt tensioner igniter on driver side
N197	Rear belt tensioner igniter on front passenger side
N199	Side airbag igniter on driver side
N200	Side airbag igniter on front passenger side
N251	Driver side curtain airbag igniter
N252	Front passenger side curtain airbag igniter
T2fg	2-pin connector, yellow
T2fs	2-pin connector, yellow
T3b	3-pin connector, yellow, under driver seat
T3c	3-pin connector, yellow, under front passenger seat
T3u	3-pin connector, yellow
T3v	3-pin connector, yellow, in driver seat
T3w	3-pin connector, yellow
T3z	3-pin connector, yellow, in front passenger seat
T3ab	3-pin connector, yellow
T3ad	3-pin connector, yellow
T50	50-pin connector
285	Earth connection 7, in interior wiring harness
*	Only models with rear belt tensioner
**	Only right-hand drive

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sw	=	black
ro	=	red
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Airbag control unit, belt switch, sat occupied sensor, front passenger side, data bus diagnostic interface



E24	Driver side belt switch
E25	Front passenger side belt switch
G128	Seat occupied sensor, front passenger side
J234	Airbag control unit
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
T2d	2-pin connector, black, coupling point driver side, under seat
T2fu	2-pin connector, in front passenger seat
T2fv	2-pin connector, in front passenger seat
T2fw	2-pin connector, in driver seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
T20e	20-pin connector
T36	36-pin connector
T50	50-pin connector
285	Earth connection 7, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Only for Mexico

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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CAN bus network

⇒ **Power train, convenience, infotainment and diagnosis**

From May 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

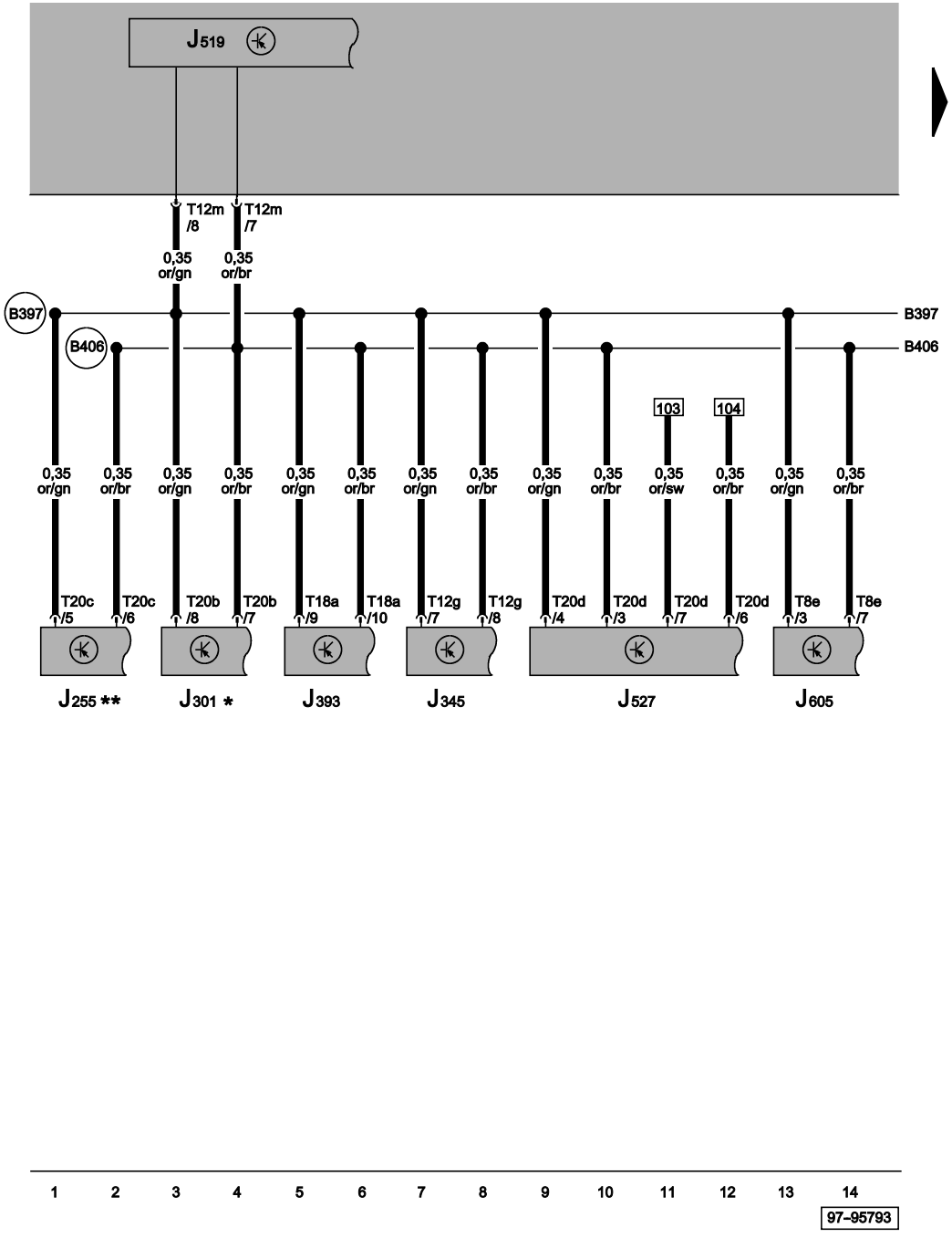
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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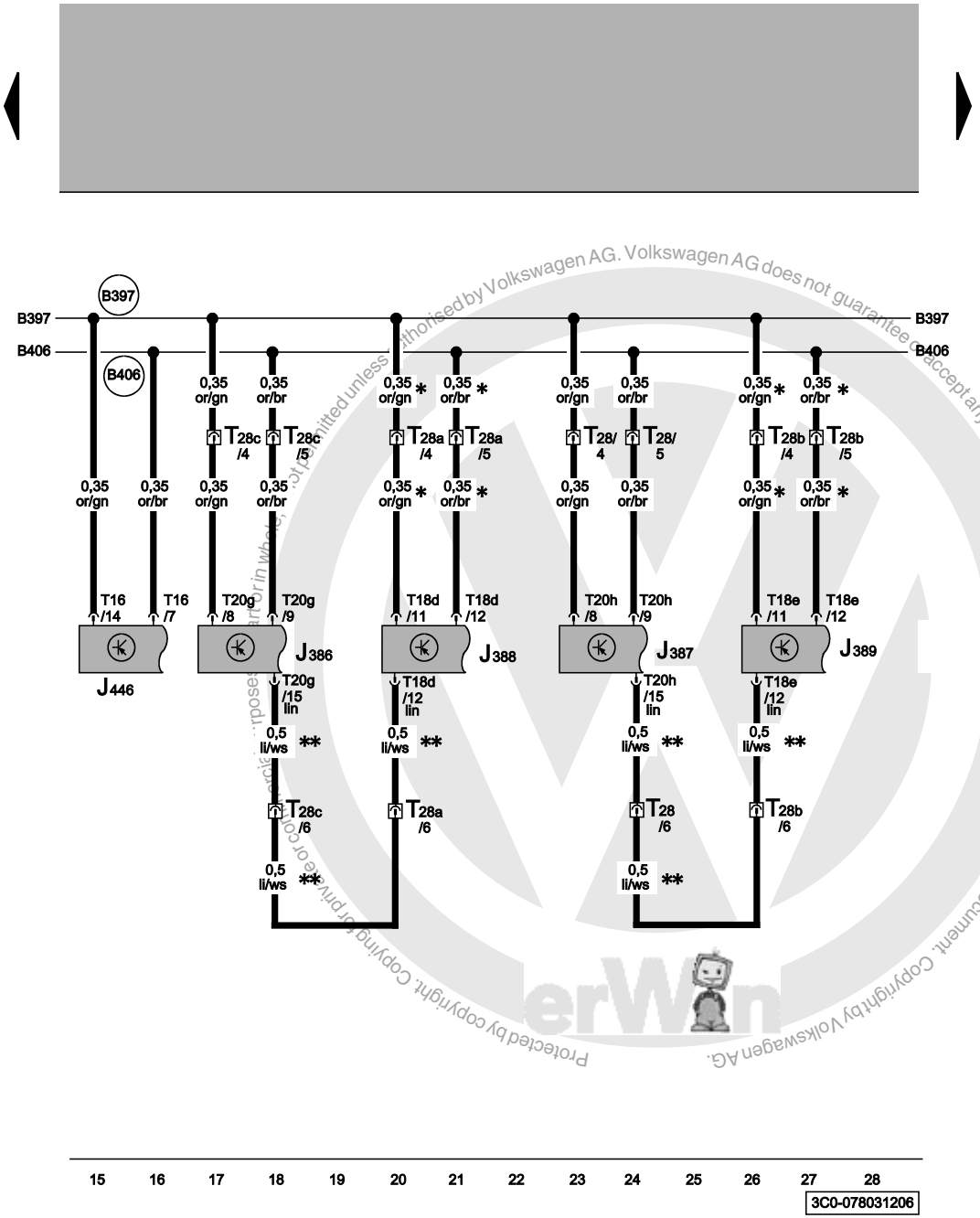


Climatronic control unit, air conditioning system control unit, trailer detector control unit, convenience system central control unit, steering column electronics control unit

J255	Climatronic control unit
J301	Air conditioning system control unit
J345	Trailer detector control unit
J393	Convenience system central control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J605	Rear lid control unit
T8e	8-pin connector
T12g	12-pin connector, coupling point trailer connection
T12m	12-pin connector, black
T18a	18-pin connector
T20b	20-pin connector
T20c	20-pin connector
T20d	20-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	only models with air conditioning system
**	only models with Climatronic

ws	=	white
sw	=	black
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gn	=	green
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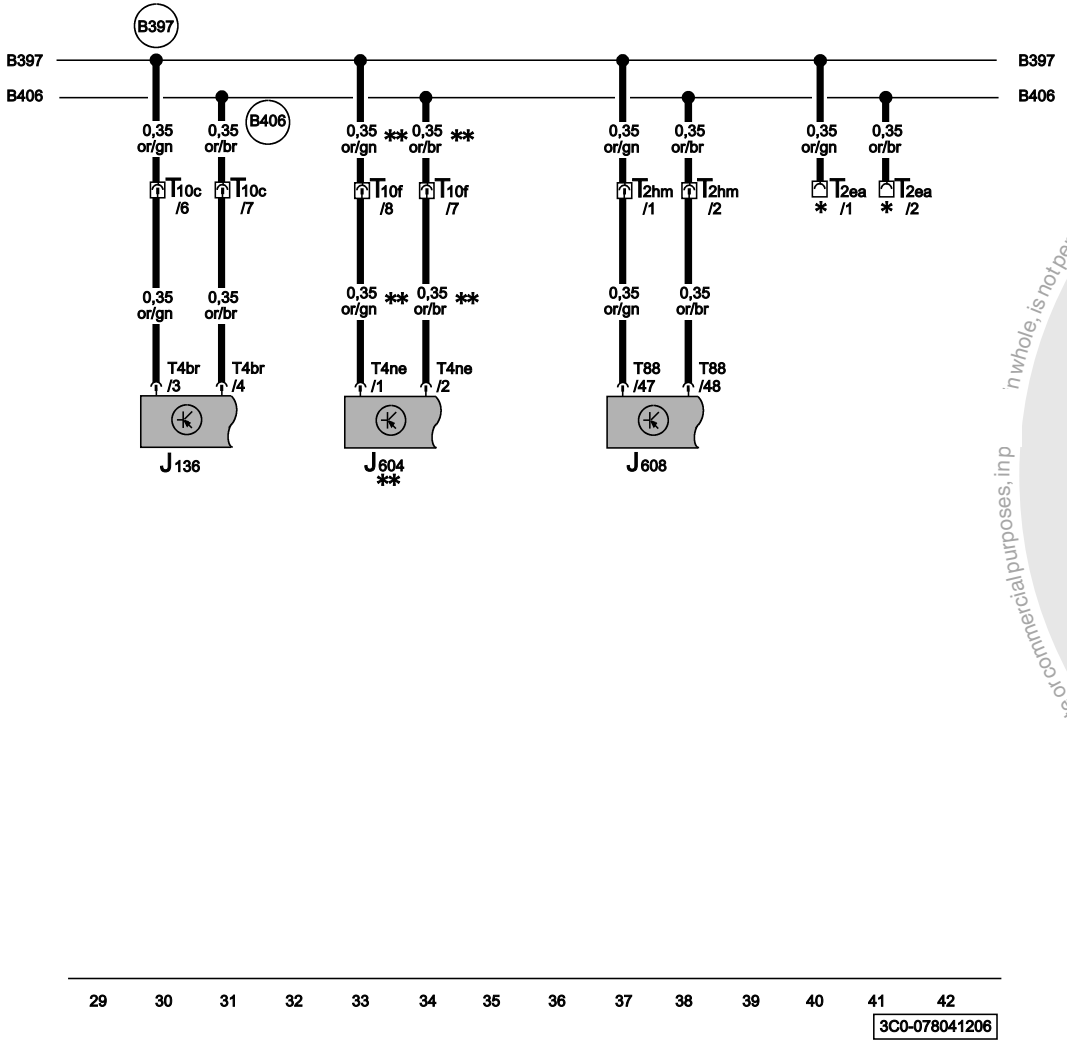


Convenience system central control unit, exterior handle touch sensor, driver side aerial for entry and start authorisation, central locking button

J386	Driver door control unit
J387	Front passenger door control unit
J388	Rear left door control unit
J389	Rear right door control unit
J446	Parking aid control unit
T16	16-pin connector, brown
T18e	18-pin connector
T18d	18-pin connector
T20g	20-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
T28c	28-pin connector, coupling point, left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	applicable up to April 2006
**	applicable from May 2006

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sw	=	black
ro	=	red
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rs	=	pink

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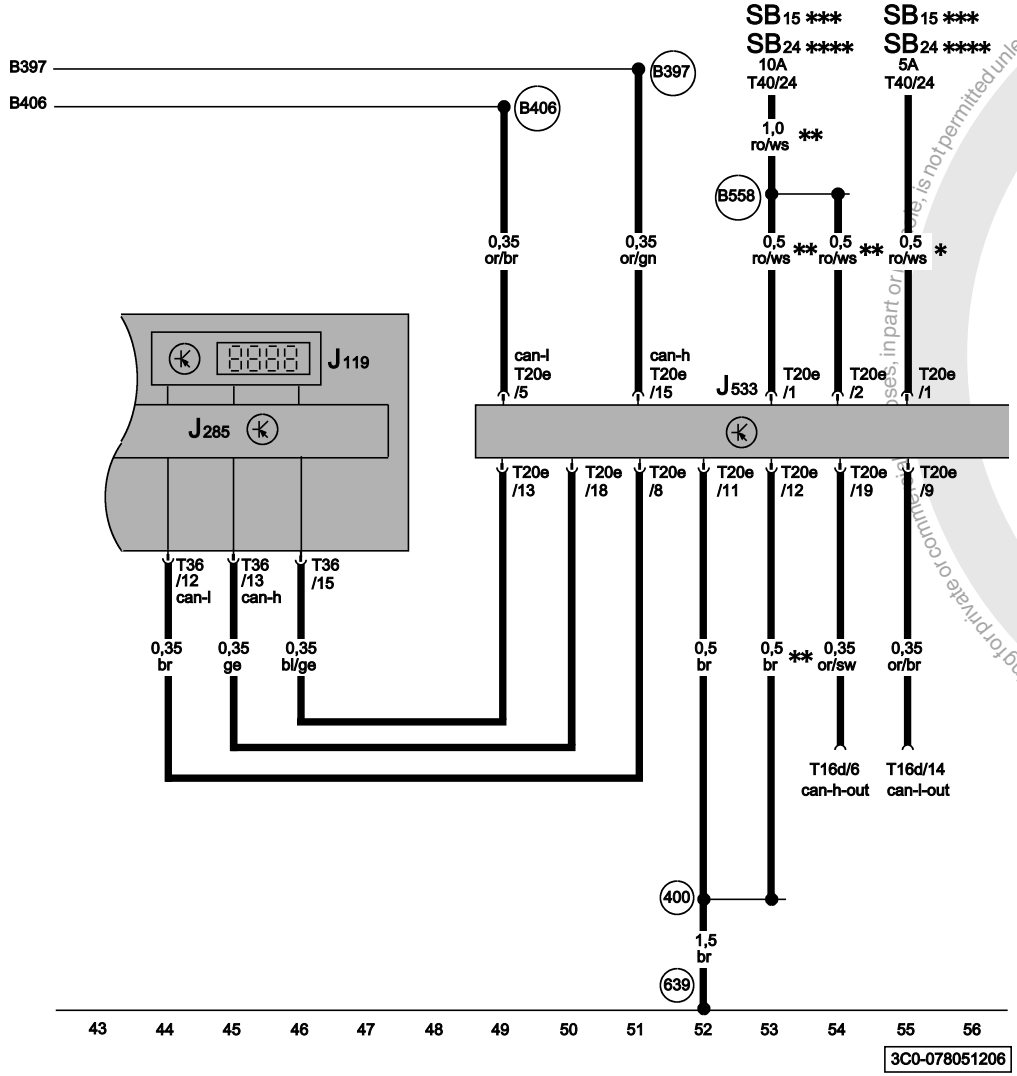
Special vehicle control unit, auxiliary air heater control unit

J136	Seat and steering column adjustment control unit with memory
J604	Auxiliary air heater control unit
J608	Special vehicle control unit
T2hm	2-pin connector
T2ea	2-pin connector
T4br	4-pin connector, black
T4ne	4-pin connector
T10c	10-pin connector, coupling point driver side, under the seat
T10f	10-pin connector, coupling point heater/air conditioner
T88	88-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	wire for special installation
**	applicable up to October 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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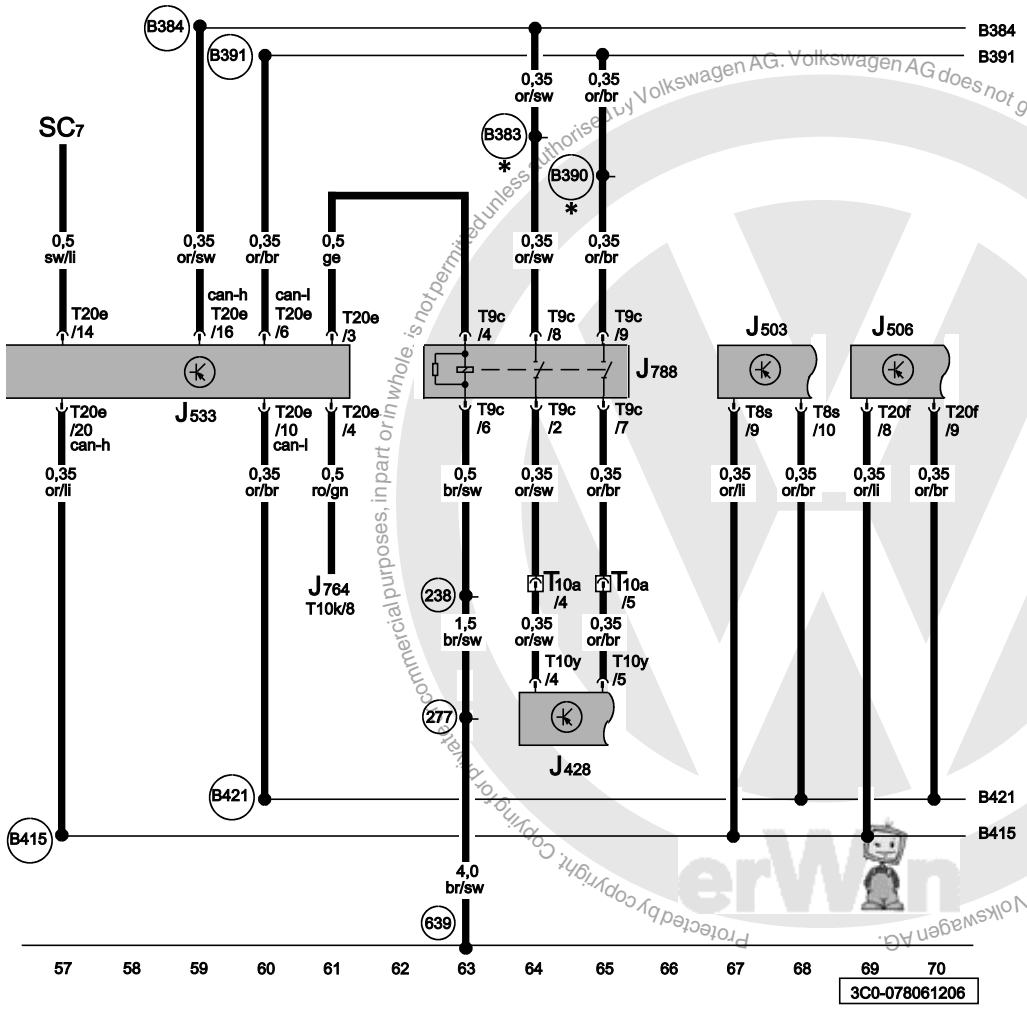
Dash panel insert, multifunction display, data bus diagnostic interface, self-diagnosis connection



J119	Multifunction display
J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
SB15	Fuse 15 on fuse holder B
SB24	Fuse 24 on fuse holder B
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T36	36-pin connector
T40	40-pin connector
400	Earth connection 35, in main wiring harness
639	Earth point, left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B558	Connection 22 (30a), in main wiring harness
*	applicable from November 2006
**	applicable up to October 2006
***	Models with E-box low only
****	Models with E-box high only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

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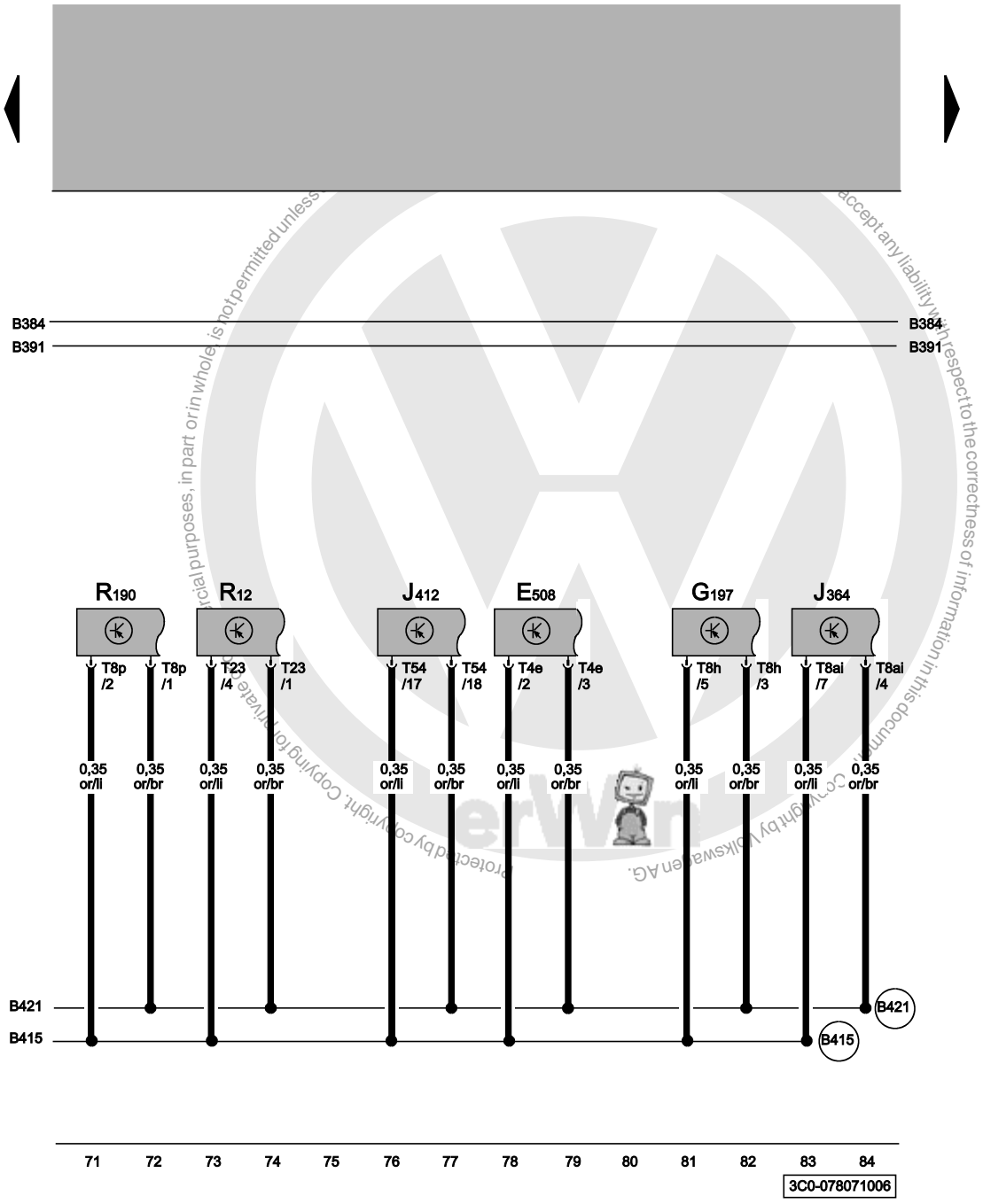


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Data bus diagnostic interface, control unit with display for radio and navigation, adaptive cruise control unit, electronic steering column lock control unit

J428	Adaptive cruise control unit
J503	Control unit with display for radio and navigation
J506	Control unit with display for TV, radio navigation
J533	Data bus diagnostic interface
J764	Electronic steering column lock control unit
J788	Isolation relay for powertrain CAN bus
SC7	Fuse 7 on fuse holder C
T8s	8-pin connector, black
T9c	9-pin connector
T10a	10-pin connector, black
T10k	10-pin connector
T10y	10-pin connector
T20e	20-pin connector
T20f	20-pin connector
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
639	Earth point, left A-pillar
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	applicable from November 2006

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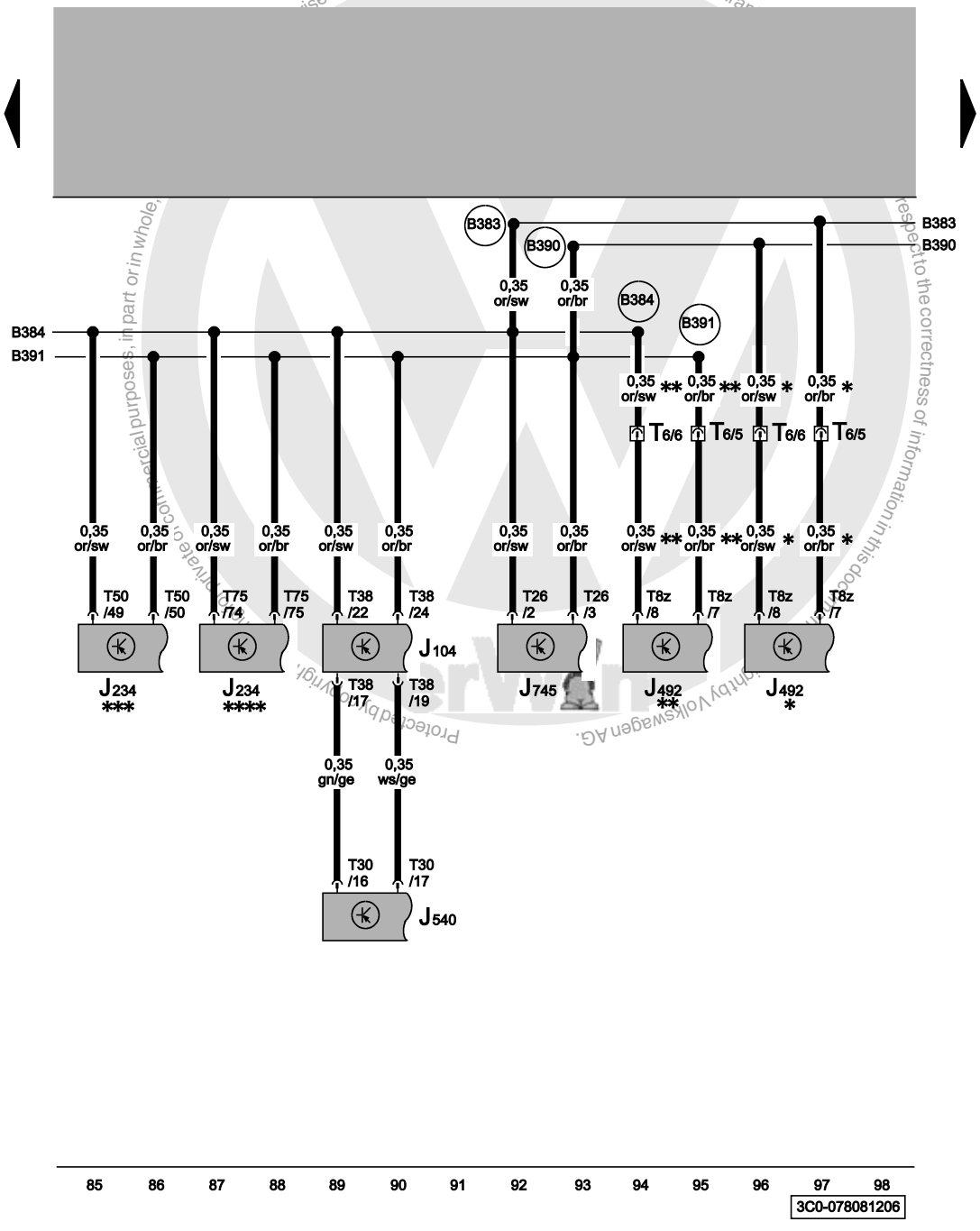


Magnetic field sender for compass, mobile telephone operating electronics control unit, digital radio satellite receiver, amplifier, auxiliary heater control unit, operating unit for preparation for mobile telephone

E508	Operating unit for preparation for mobile telephone
G197	Magnetic field sender for compass
J364	Auxiliary heater control unit
J412	Mobile telephone operating electronics control unit
R12	Amplifier
R190	Digital radio satellite receiver
T4e	4-pin connector
T8ai	8-pin connector
T8h	8-pin connector
T8p	8-pin connector
T23	23-pin connector
T54	54-pin connector
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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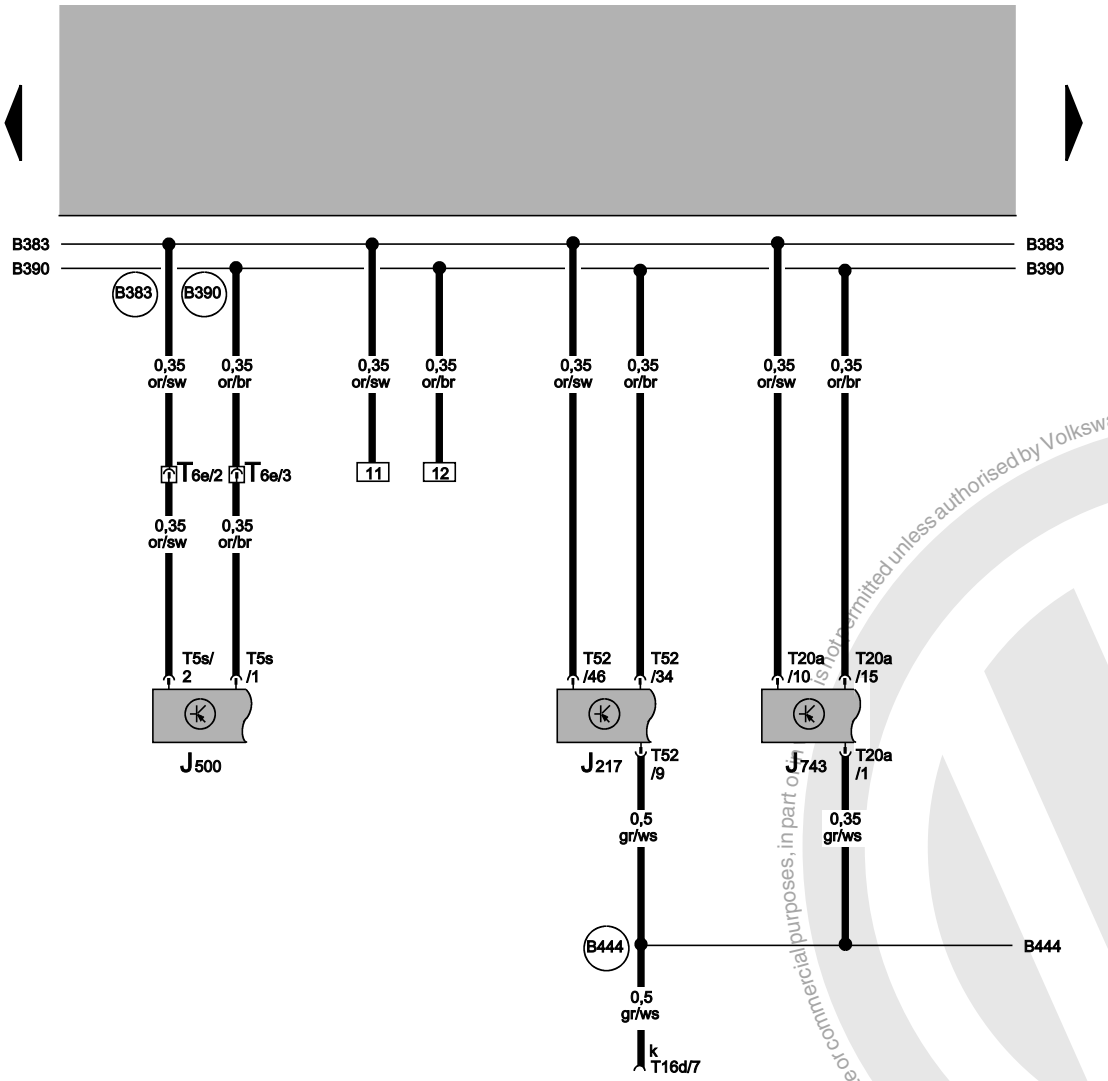
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ABS control unit, airbag control unit, cornering light and headlight range control unit, four-wheel drive control unit, control unit for electromechanical parking brake

J104	ABS control unit
J234	Airbag control unit
J492	Four-wheel drive control unit
J540	Control unit for electromechanical parking brake
J745	Cornering light and headlight range control unit, behind the glove compartment
T6	6-pin connector, black
T8z	8-pin connector
T26	26-pin connector
T30	30-pin connector
T38	38-pin connector
T50	50-pin connector
T75	75-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	applicable from November 2006
**	applicable up to October 2006
***	only models with airbag control unit 12 channel
****	only models with airbag control unit 16 channel

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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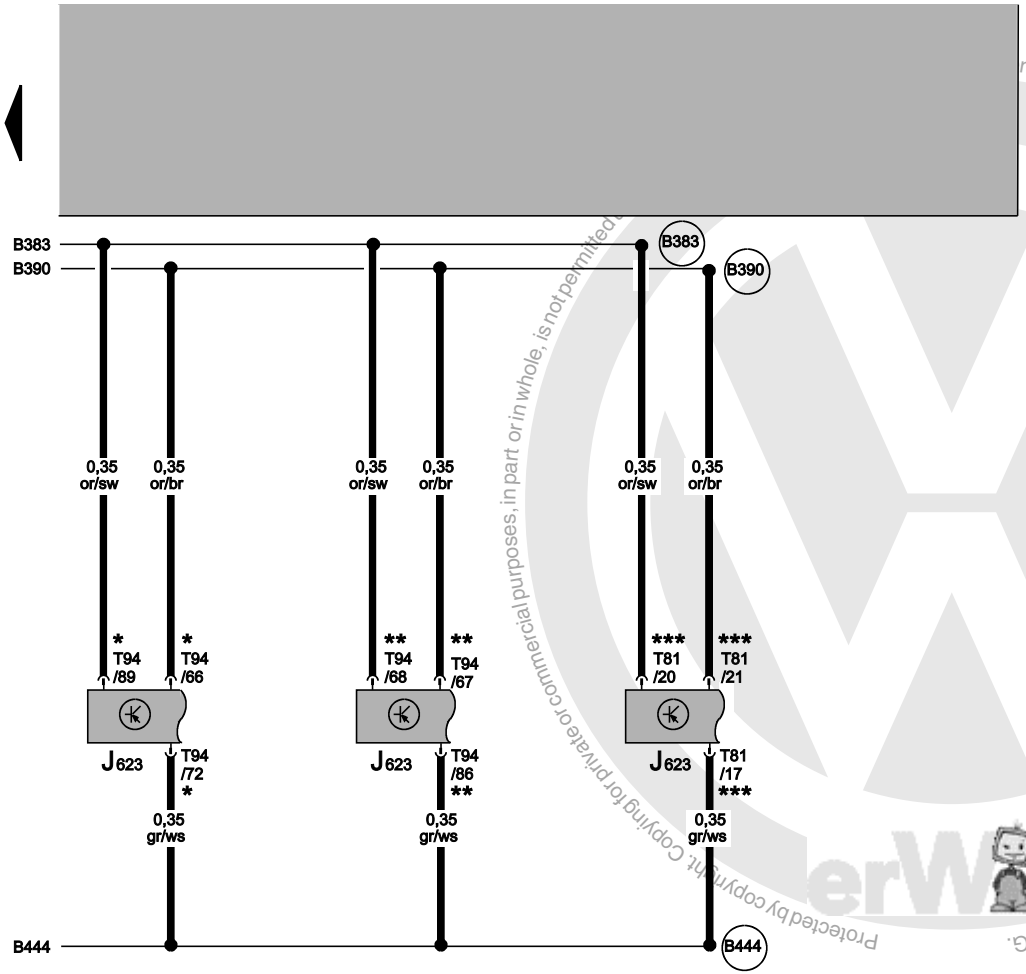


Automatic gearbox control unit, power steering control unit, mechatronic unit for dual clutch gearbox, self-diagnosis connection

J217	Automatic gearbox control unit
J500	Power steering control unit
J743	Mechatronics for direct shift gearbox
T5s	5-pin connector
T6e	6-pin connector
T16d	16-pin connector, self-diagnosis connection
T20a	20-pin connector
T52	52-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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Engine control unit

J623	Engine control unit
T81	81-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	models with diesel engine only
**	models with petrol engine only
***	only models with engine codes BSE, BSF

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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rs	=	pink

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1.6 l/85 kW Motronic, engine code BLF

From May 2006

Notes:

For information concerning

- Position of relays and fuses
- Connectors
- Control units and relays
- Earth connections

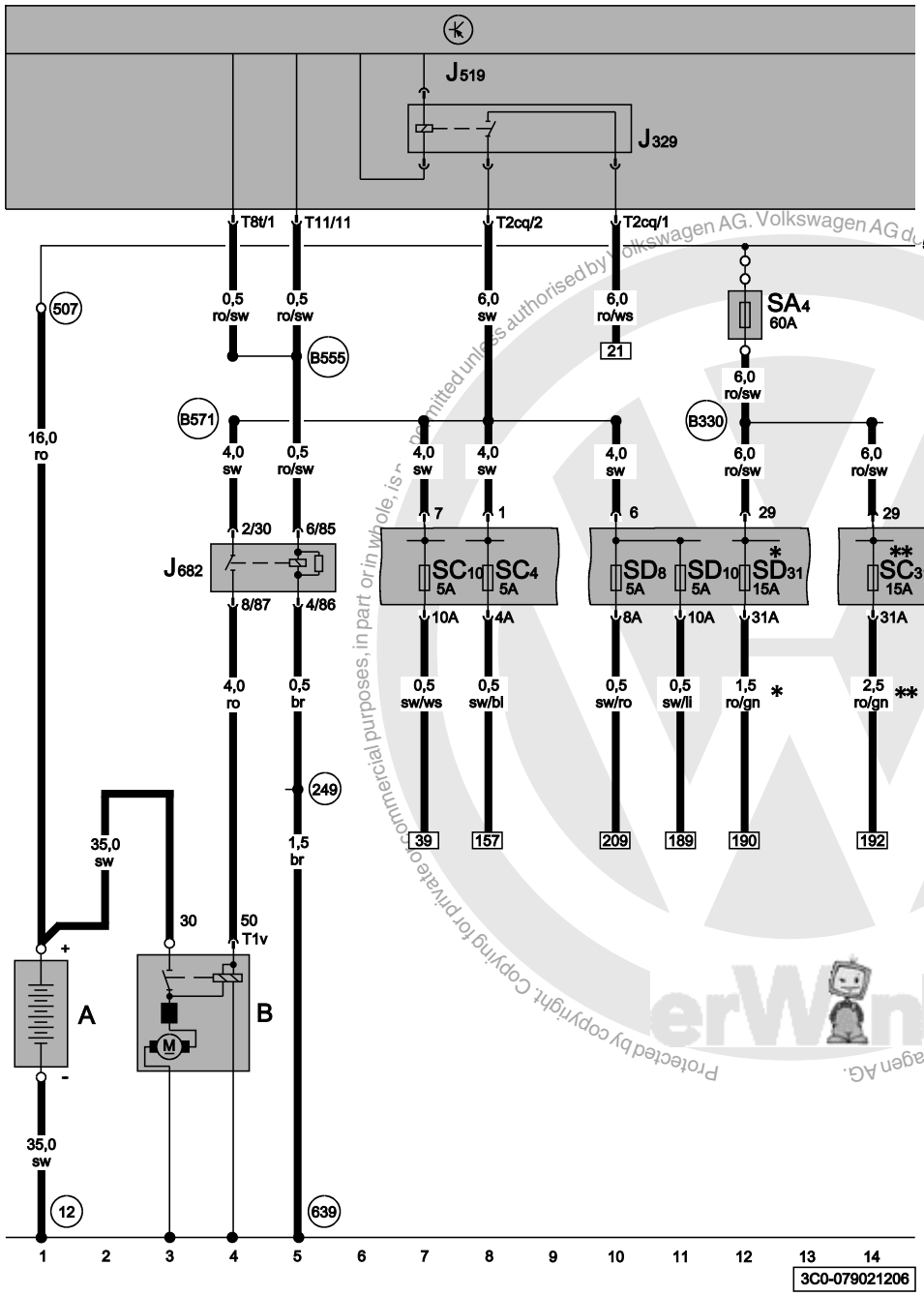
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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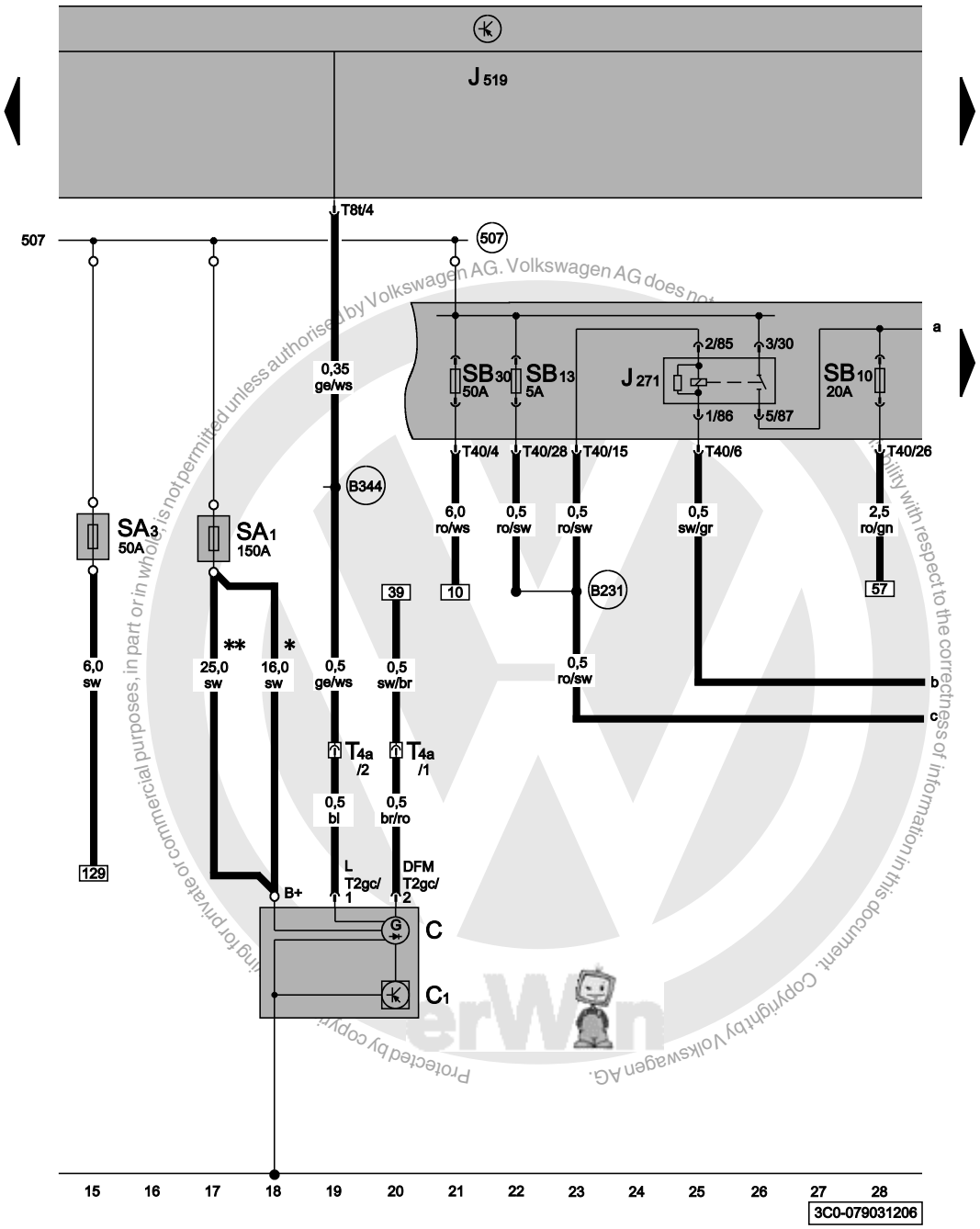


Battery, starter, terminal 15 voltage supply relay 2, terminal 50 voltage supply relay 2, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
J329	Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
SA4	Fuse 4 on fuse holder A
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
SD10	Fuse 10 on fuse holder D
SD31	Fuse 31 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
507	Threaded connection (30), on fuse holder on battery
639	Earth point, left A-pillar
B330	Connection 19 (30a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38 in main wiring harness
*	applicable up to October 2006
**	applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
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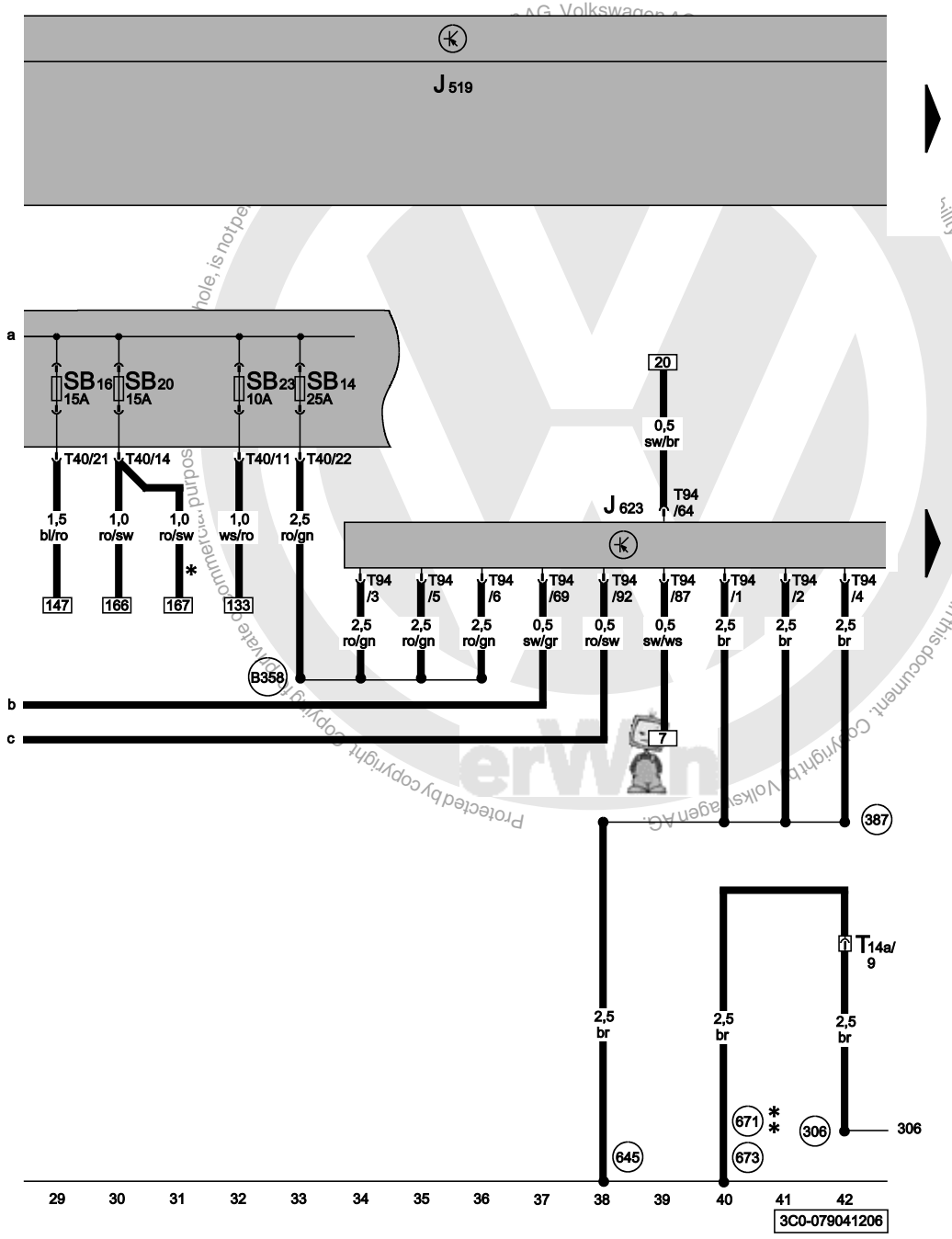


Alternator, fuel system pressurisation pump, terminal 15 voltage supply relay, fuses

C	Alternator
C1	Voltage regulator
J271	Motronic current supply relay (458)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB30	Fuse 30 on fuse holder B
T2gc	2-pin connector
T4a	2-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
507	Threaded connection (30), on fuse holder on battery
B231	Positive connection 5 (30a), in interior wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 110 A alternator
**	Only models with 140 A alternator

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

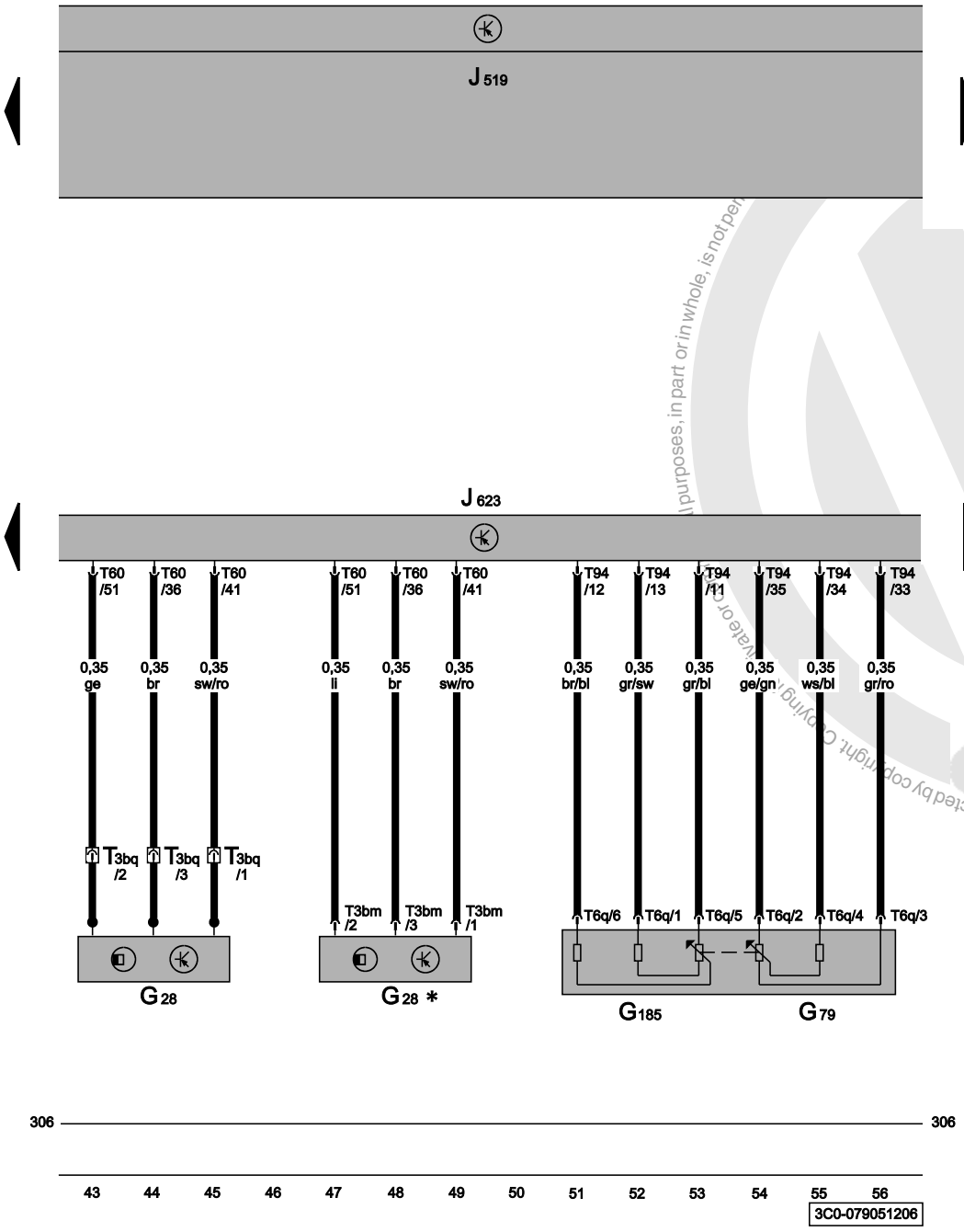
Engine control unit, fuses

J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40	40-pin connector
T94	94-pin connector
306	Earth connection (ignition coils), in engine prewiring harness
387	Earth connection 22, in main wiring harness
645	Earth point 1, bulkhead
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B358	Connection 9 (87a), in main wiring harness
*	Only models with automatic gearbox
**	applicable from November 2006

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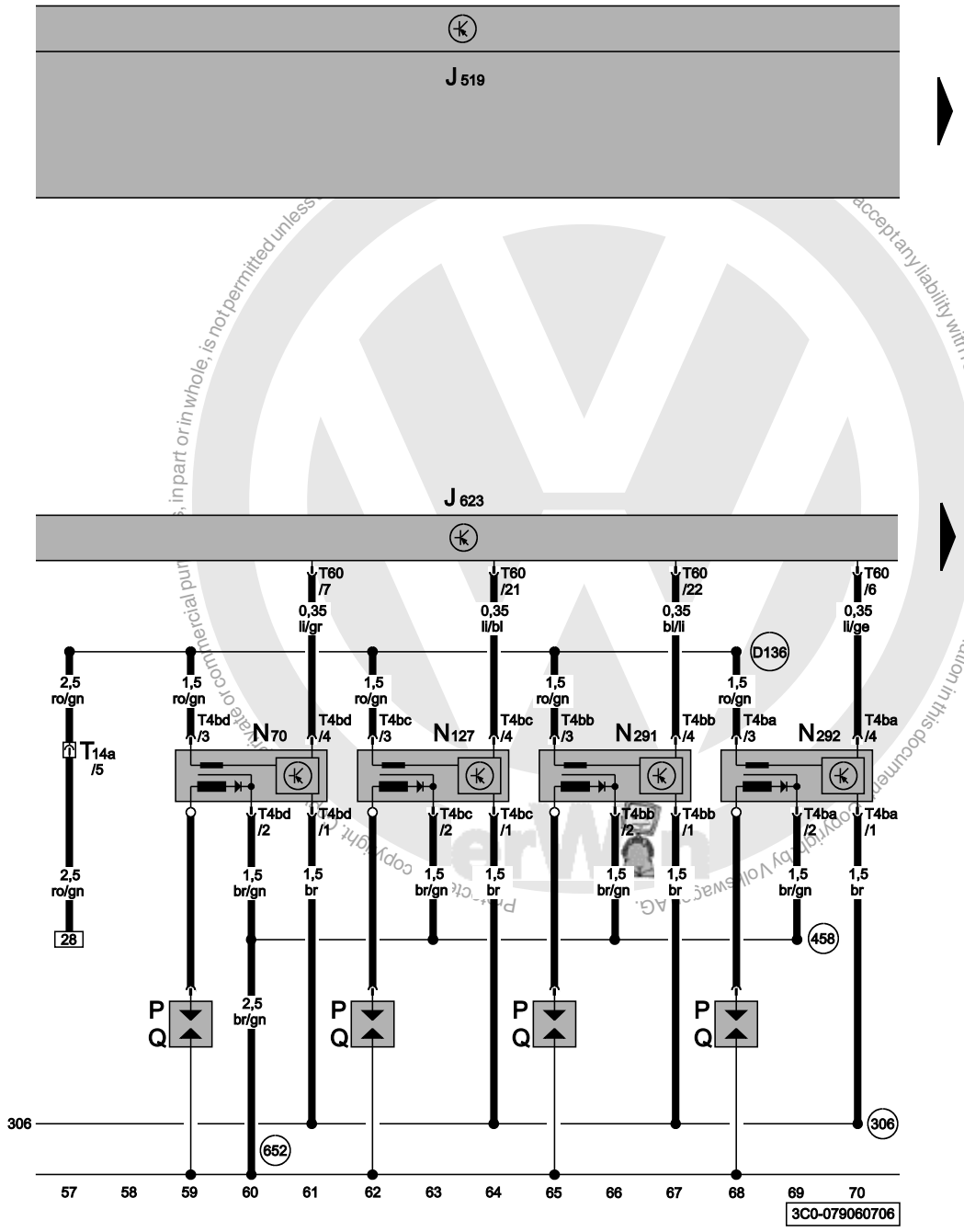
Engine control unit, accelerator position sender, engine speed sender

G28	Engine speed sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T3bq	3-pin connector
T3bm	3-pin connector
T6q	3-pin connector
T60	60-pin connector
T94	94-pin connector
*	Only models with automatic gearbox



ws = white
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ro = red
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gn = green
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gr = grey
li = purple
ge = yellow
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rs = pink

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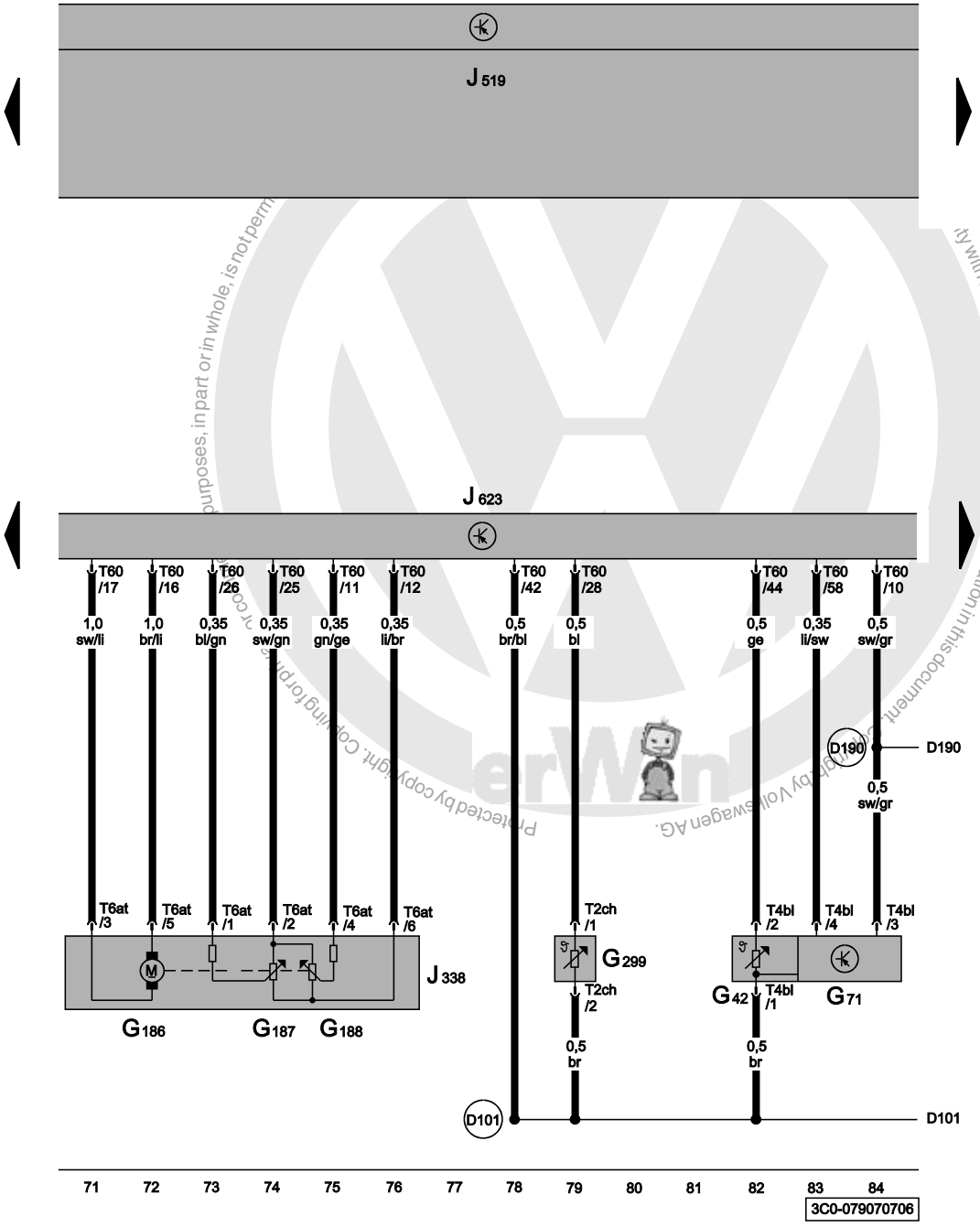


Engine control unit, ignition coils with output stage

J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plug
T4ba	4-pin connector
T4bb	4-pin connector
T4bc	4-pin connector
T4bd	4-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	80-pin connector
306	Earth connection (ignition coils), in engine prewiring harness
458	Earth point 3, engine prewiring harness
652	Earth point, engine and gearbox earth
D136	Positive connection 2 (15a) in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

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Engine control unit, throttle valve module, intake air temperature sender, intake manifold pressure sender

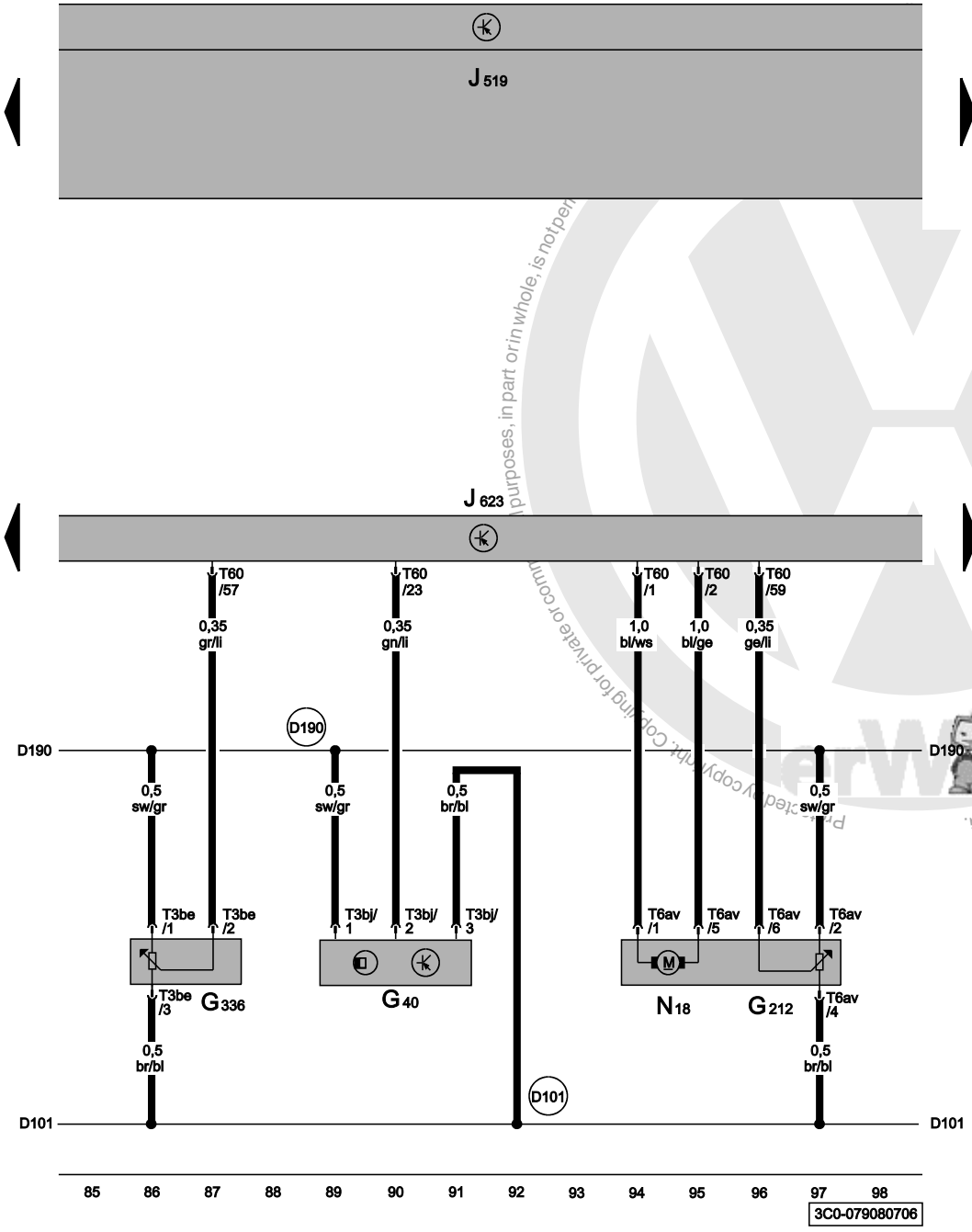
G42	Intake air temperature sender
G71	Intake manifold pressure sender
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
G299	Intake air temperature sender 2
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
T2ch	2-pin connector
T4bl	2-pin connector
T6at	6-pin connector
T60	60-pin connector
D101	Connection 1, in engine compartment wiring harness
D190	Connection 3 (5V) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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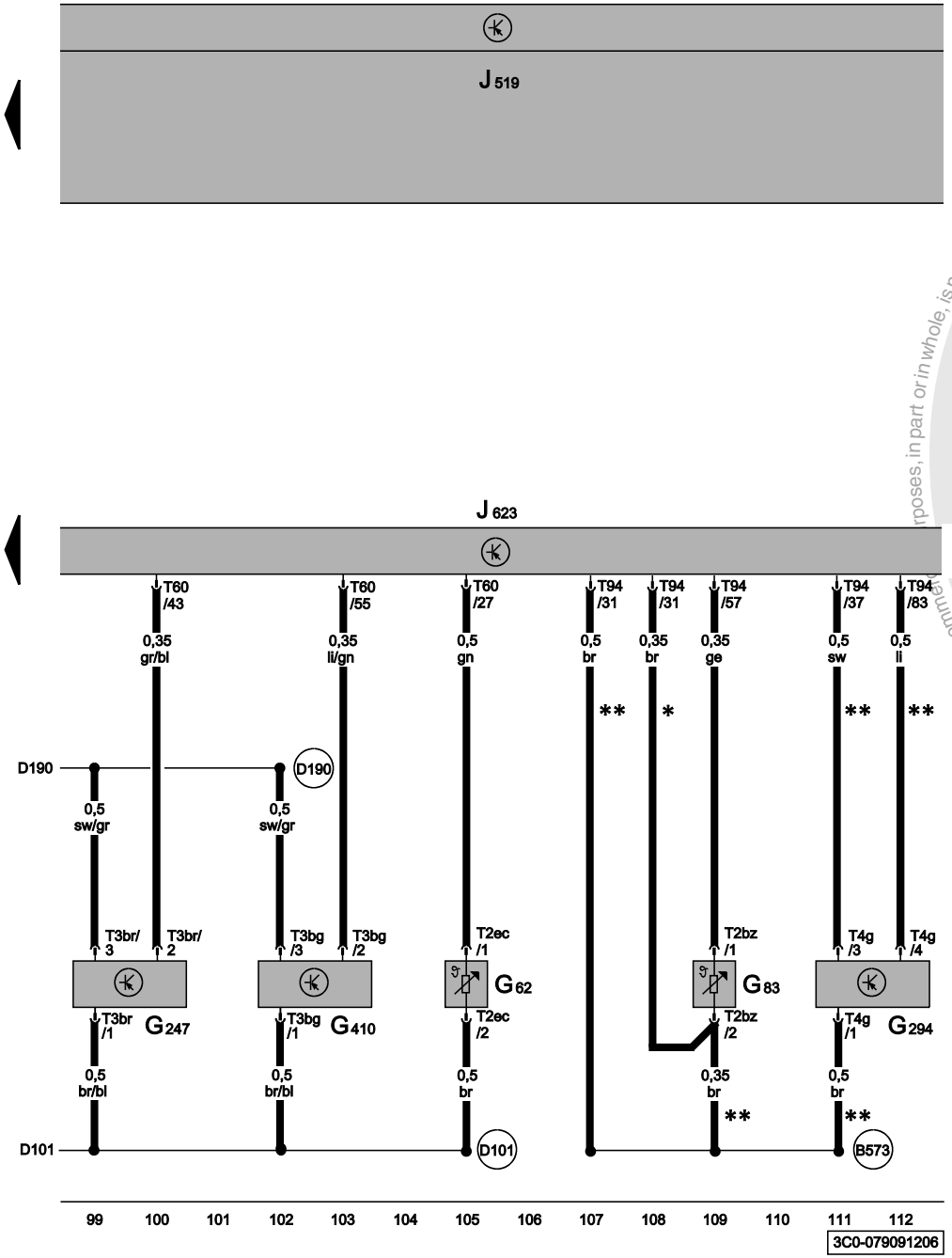
Engine control unit, hall sender, exhaust gas recirculation potentiometer, exhaust gas recirculation valve, intake manifold flap potentiometer

G40	Hall sender
G212	Exhaust gas recirculation potentiometer
G336	Intake manifold flap potentiometer
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
T3be	3-pin connector
T3bj	3-pin connector
T6av	6-pin connector
T60	60-pin connector
D101	Connection 1, in engine compartment wiring harness
D190	Connection 3 (5V) in engine prewiring harness



ws	=	white
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gn	=	green
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gr	=	grey
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Engine control unit, coolant temperature sender, radiator outlet coolant temperature sender, fuel pressure sender, brake servo pressure sensor, fuel pressure sender for low pressure

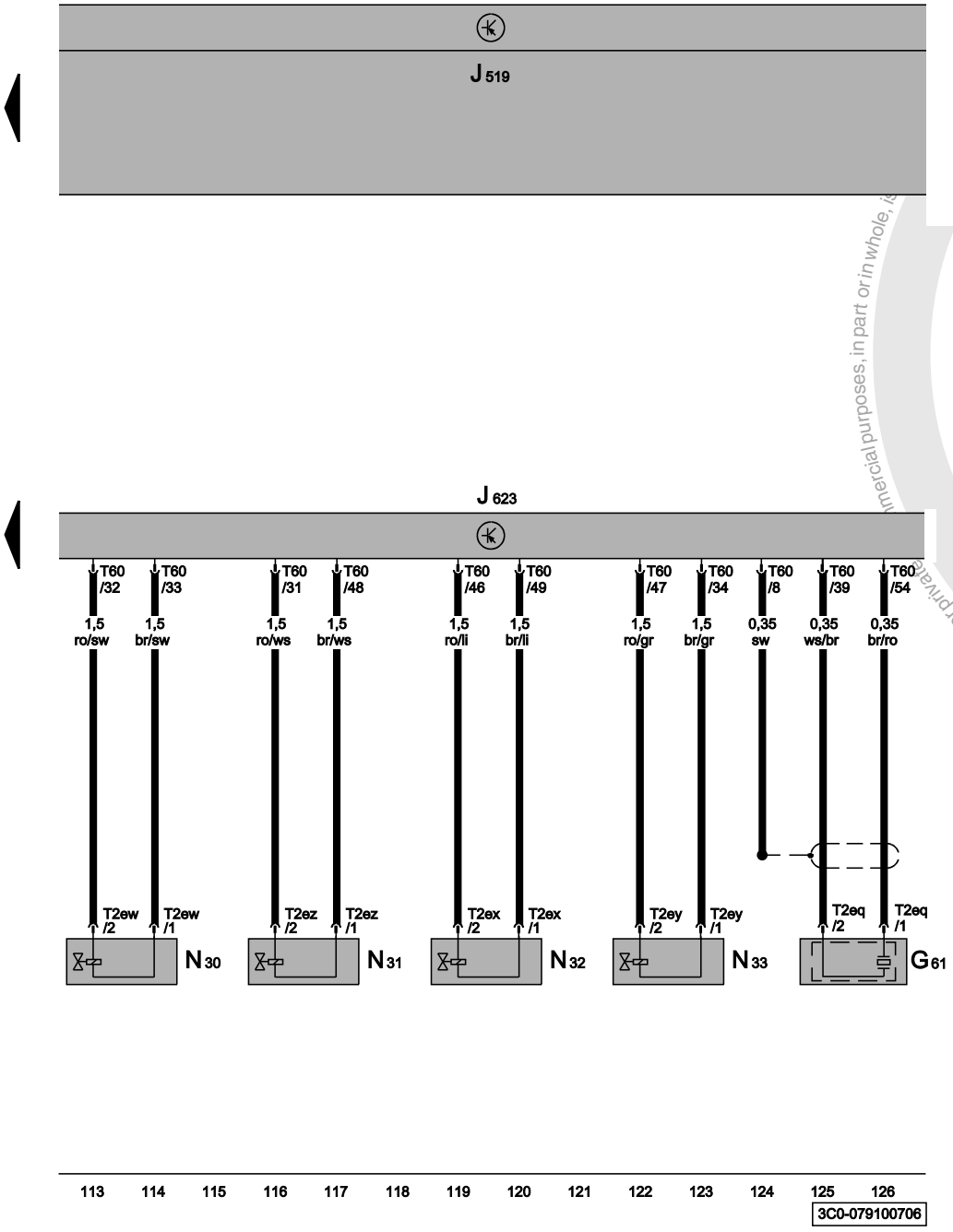
G62	Coolant temperature sender
G83	Radiator outlet coolant temperature sender
G247	Fuel pressure sender
G294	Brake servo pressure sensor
G410	Fuel pressure sender for low pressure
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector
T2ec	2-pin connector
T3bg	3-pin connector
T3br	3-pin connector
T4g	4-pin connector
T60	60-pin connector
T94	94-pin connector
B573	Connection 40 in main wiring harness
D101	Connection 1, in engine compartment wiring harness
D190	Connection 3 (5V) in engine prewiring harness
*	Only models with automatic gearbox
**	Only models with manual gearbox

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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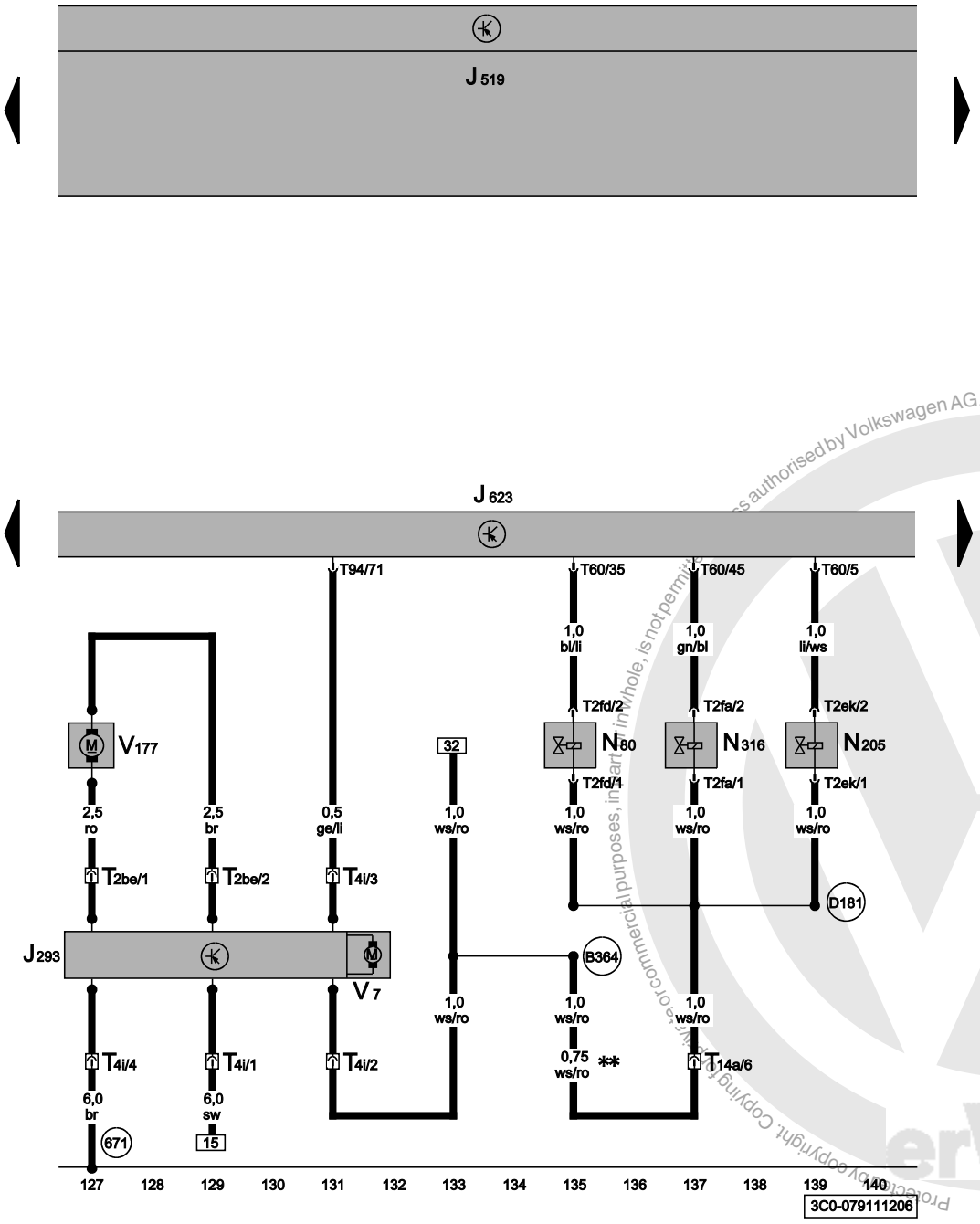
Engine control unit, knock sensor, injectors

G61	Knock sensor 1
J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T2eq	2-pin connector
T2ew	2-pin connector
T2ex	2-pin connector
T2ey	2-pin connector
T2ez	2-pin connector
T60	60-pin connector



ws = white
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ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
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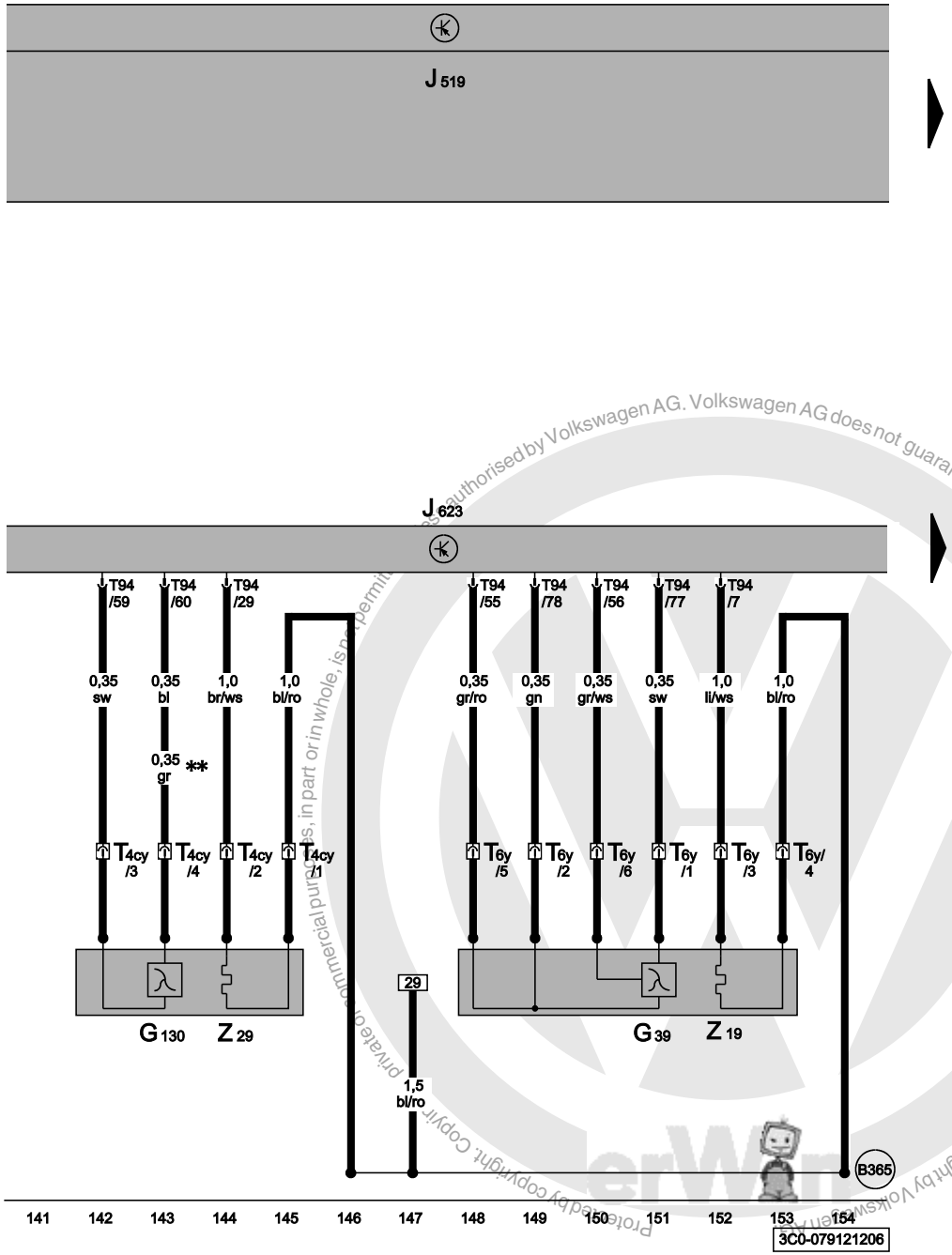


Engine control unit, active charcoal filter system solenoid valve 1, inlet camshaft control valve 1, intake manifold flap valve, radiator fan

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N80	Activated charcoal filter solenoid valve 1
N205	Inlet camshaft control valve 1
N316	Intake manifold flap valve
T2be	2-pin connector, on lock carrier
T2ek	2-pin connector
T2fa	2-pin connector
T2fd	2-pin connector
T4i	4-pin connector, black, coupling point radiator fan on centre lock carrier
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B364	Connection 15 (87a), in main wiring harness
D181	Connection 2 (87a), in engine compartment wiring harness
**	applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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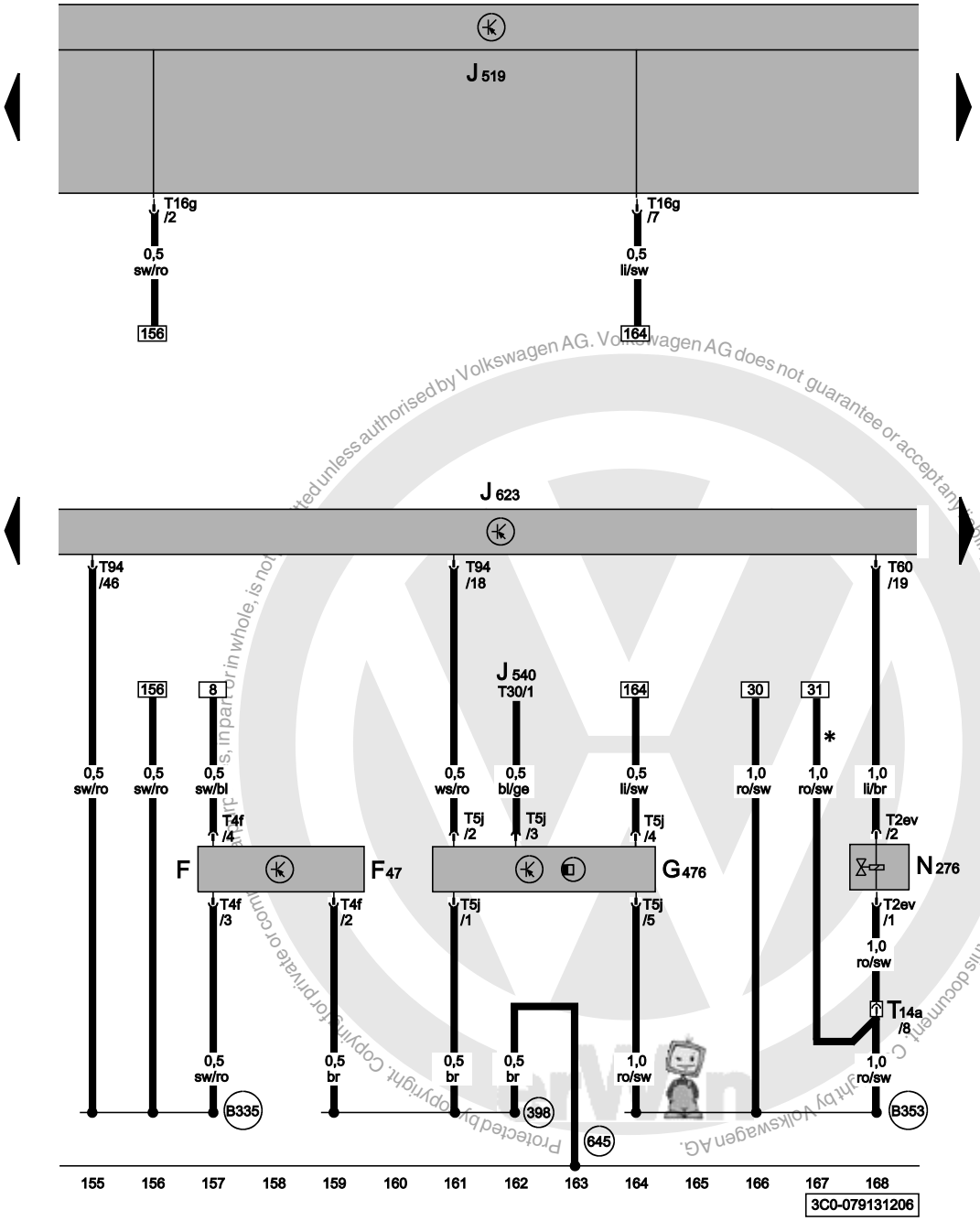


Engine control unit, lambda probe, lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J519	Onboard supply control unit
J623	Engine control unit
T4cy	4-pin connector
T6y	6-pin connector
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe heater 1, after catalytic converter
B365	Connection 16 (87a), in main wiring harness
**	applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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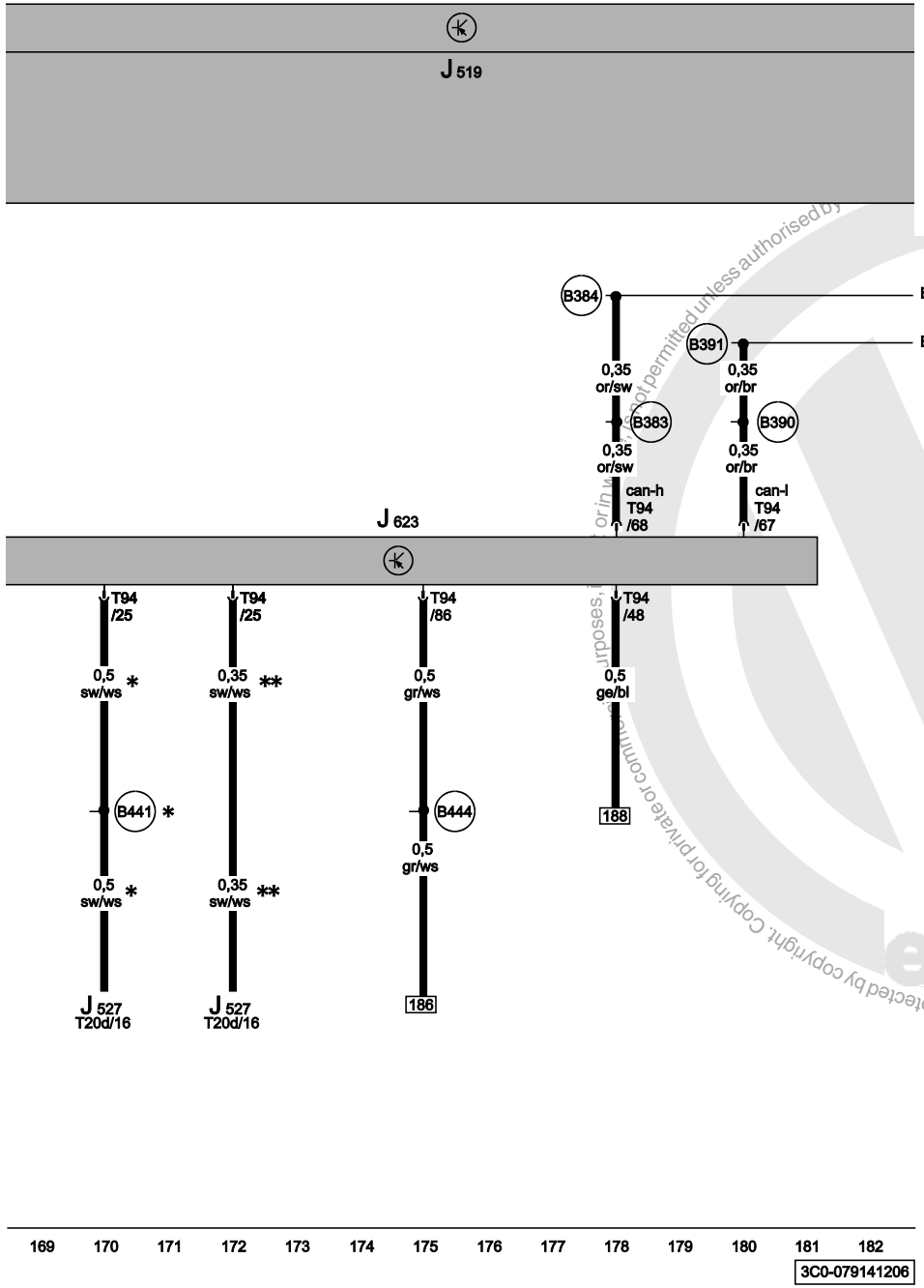


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, clutch position sender, brake light switch, brake pedal switch, fuel pressure regulating valve

F	Brake light switch
F47	Brake pedal switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
N276	Fuel pressure regulating valve
T2ev	2-pin connector
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16g	16-pin connector
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, bulkhead
B335	Connection 1 (54), in main wiring harness
B353	Connection 4 (87a), in main wiring harness
*	Only models with automatic gearbox

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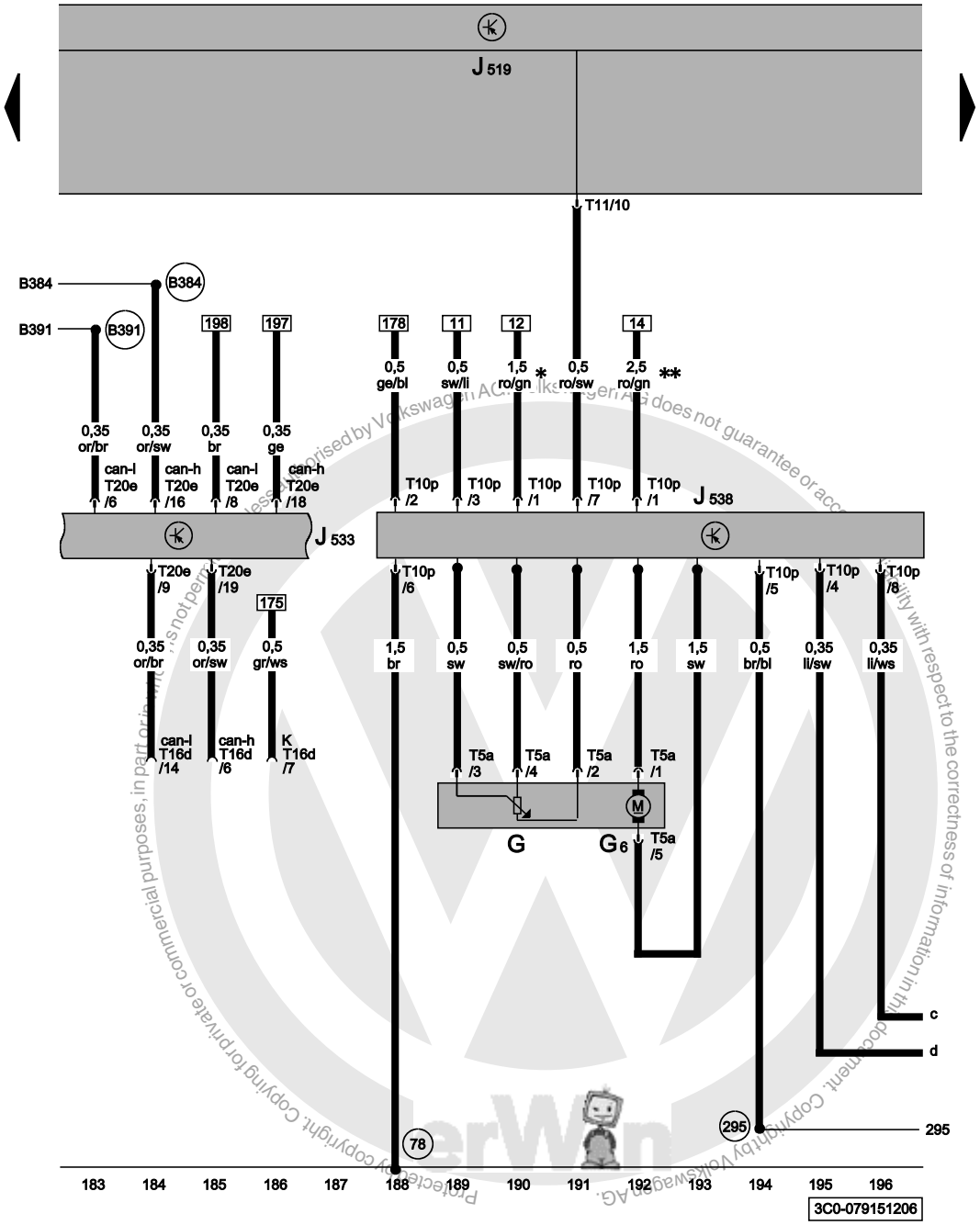


Engine control unit, steering column electronics control unit

J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
T20d	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	models with adaptive cruise control only
**	for models with CCS only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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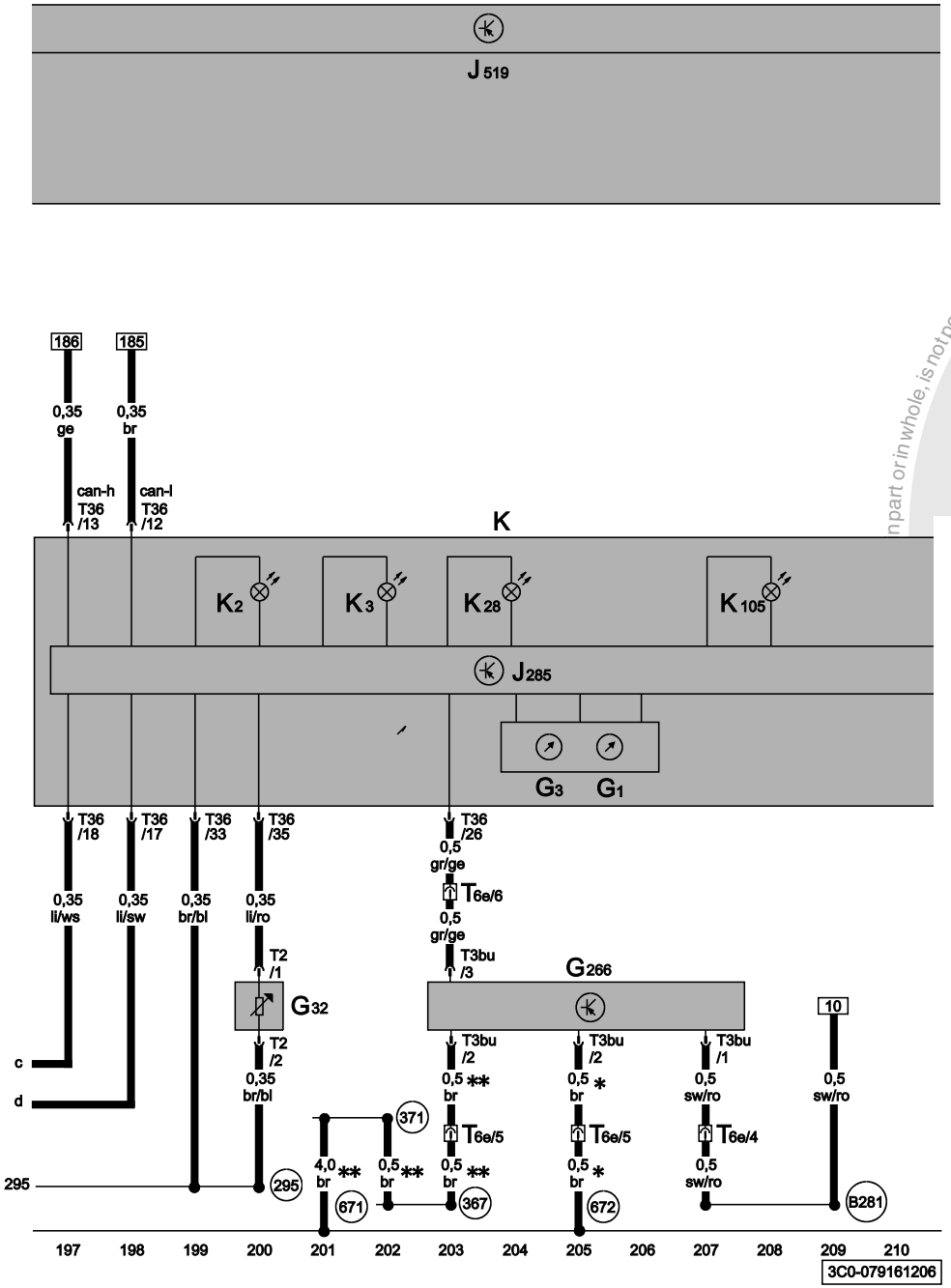


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Data bus diagnostic interface, fuel pump control unit, fuel gauge sender

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J538	Fuel pump control unit
T5a	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	applicable up to October 2006
**	applicable from November 2006

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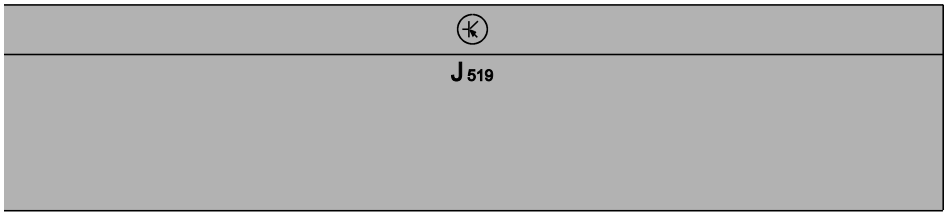


Dash panel insert, coolant shortage indicator sender, oil pressure switch, oil level and oil temperature sender

G1	Fuel gauge
G3	Coolant temperature gauge
G32	Coolant shortage indicator sender
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K105	Reserve fuel warning lamp
T2	2-pin connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T36	36-pin connector
295	Earth connection 10, in interior wiring harness
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
672	Earth point 2, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness
*	applicable up to October 2006
**	applicable from November 2006

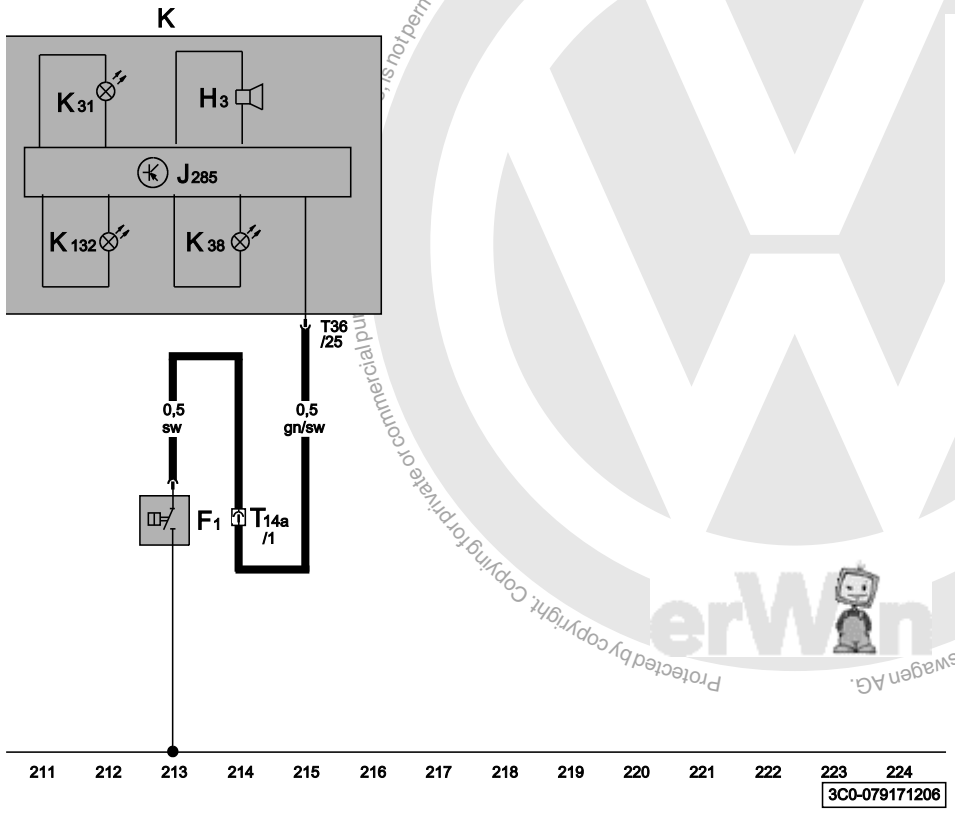
ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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Dash panel insert, oil pressure switch

F1	Oil pressure switch
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T14a	14-pin connector, coupling point 1 on left in engine compartment
T36	36-pin connector



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Basic equipment

⇒ **Driving light assist**
⇒ **Rain and light sensor**
⇒ **Daytime running light**

From November 2005

Notes:

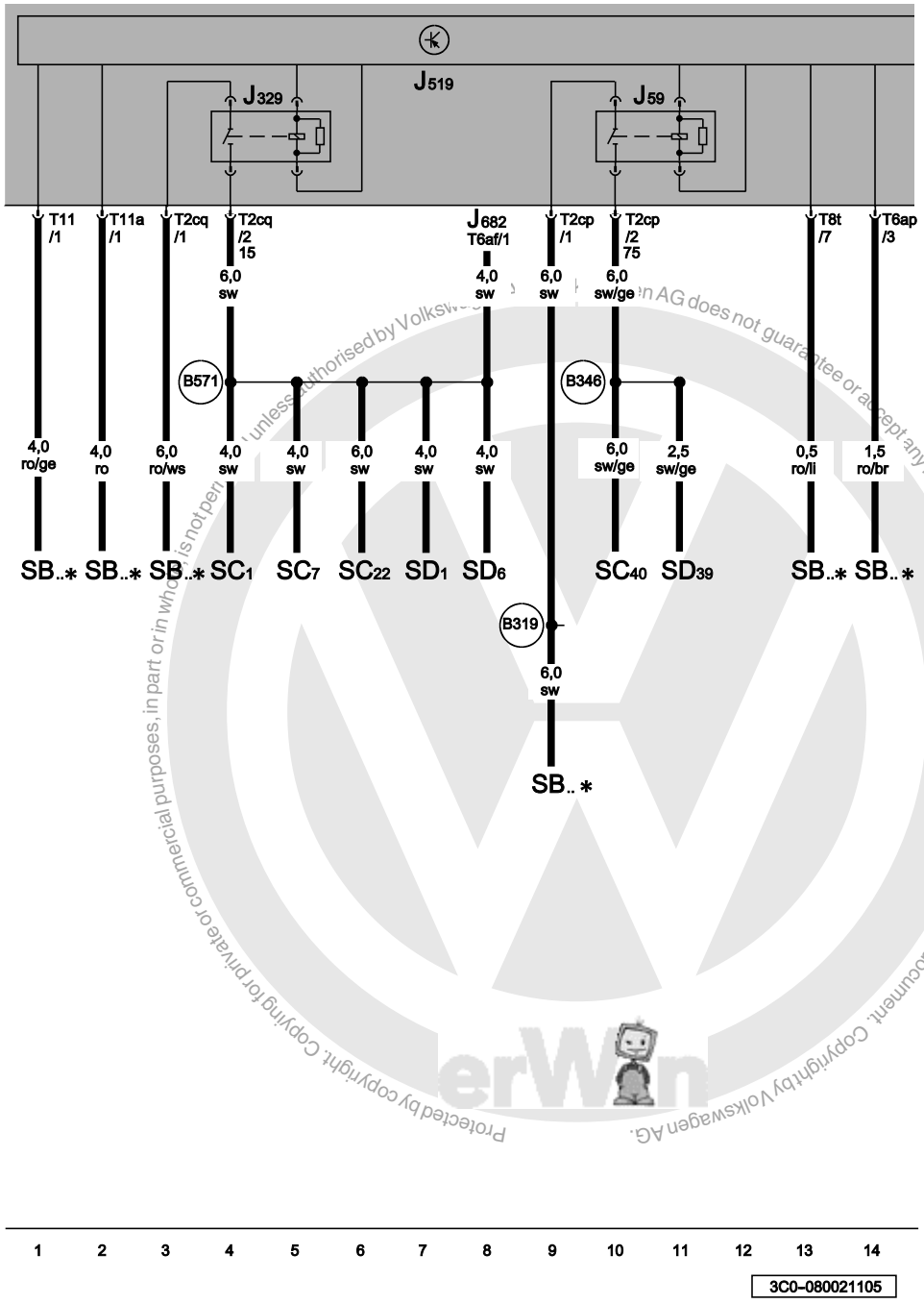
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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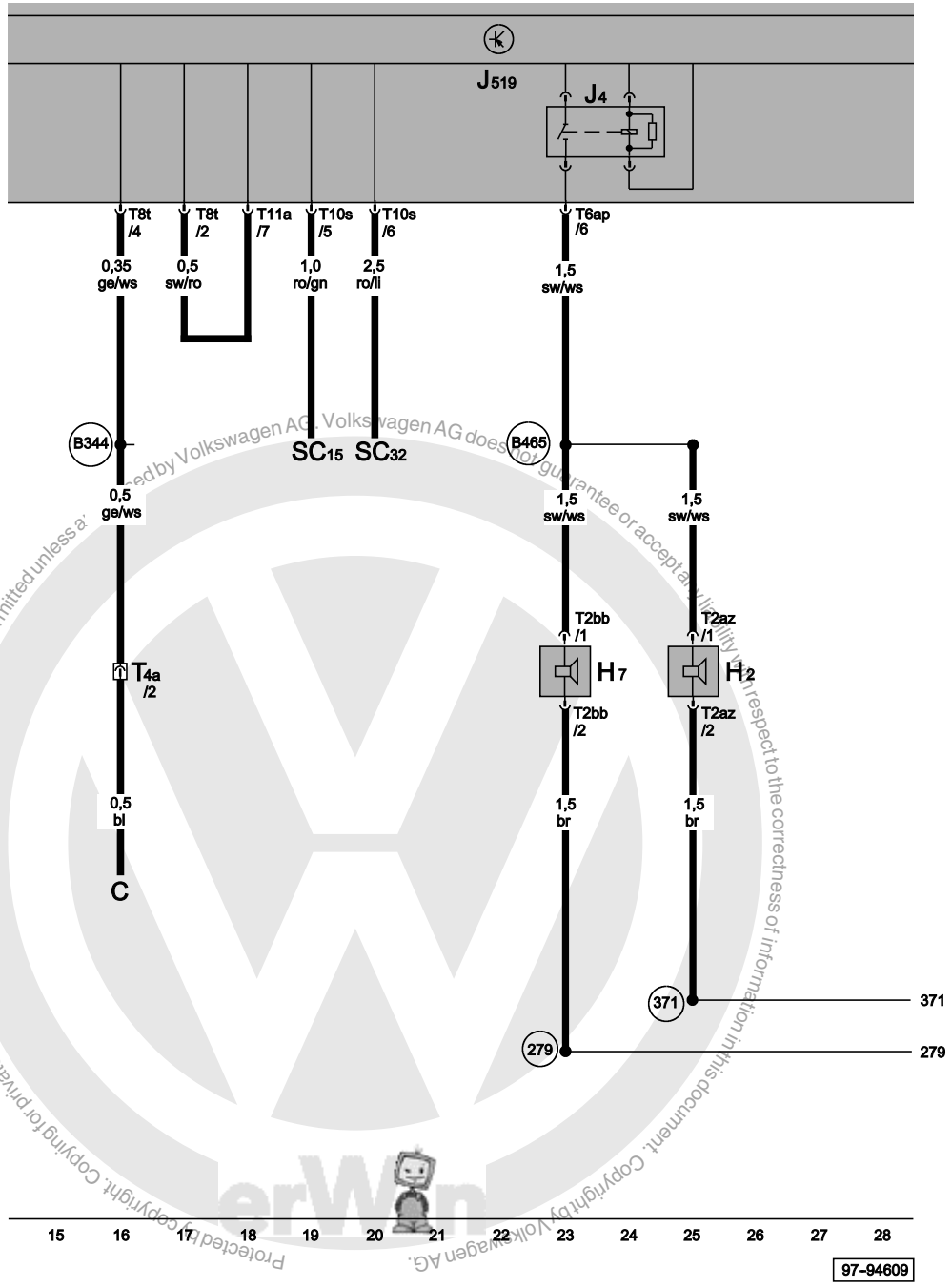


Onboard supply control unit, X-contact relief relay, terminal 15 voltage supply

J59	X-contact relief relay
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay
SB	Fuse holder B
SC1	Fuse 1 on fuse holder C
SC7	Fuse 7 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC40	Fuse 40 on fuse holder C
SD1	Fuse 1 on fuse holder D
SD6	Fuse 6 on fuse holder D
SD39	Fuse 39 on fuse holder D
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T6af	6-pin connector, on E-box
T6ap	6-pin connector, black
T8t	8-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
B319	Connection 5 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B571	Connection 38, in main wiring harness
*	Fuse assignment depends on equipment, see Fitting Locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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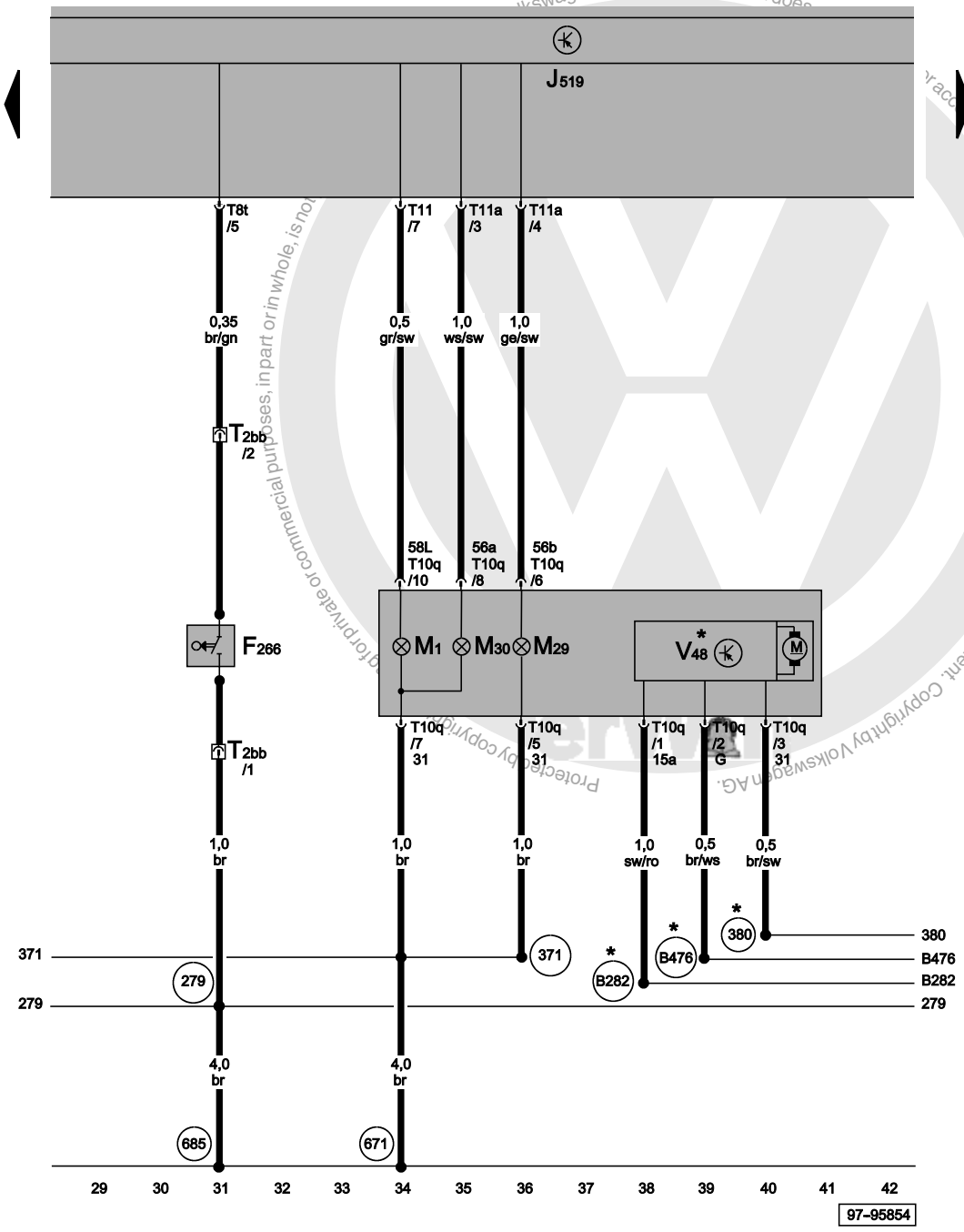


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Relay for dual tone horn, treble tone horn, bass tone horn

C	Alternator
H2	Treble horn
H7	Bass horn
J4	Dual tone horn relay
J519	Onboard supply control unit
SC15	Fuse 15 on fuse holder C
SC32	Fuse 32 on fuse holder C
T2az	2-pin connector
T2bb	2-pin connector
T4a	4-pin connector, near starter
T6ap	6-pin connector, black
T8t	8-pin connector, black
T10s	10-pin connector, black
T11a	11-pin connector, brown
279	Earth connection 5, in interior wiring harness
371	Earth connection 6, in main wiring harness
B344	Connection 1 (61), in main wiring harness
B465	Connection 1, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

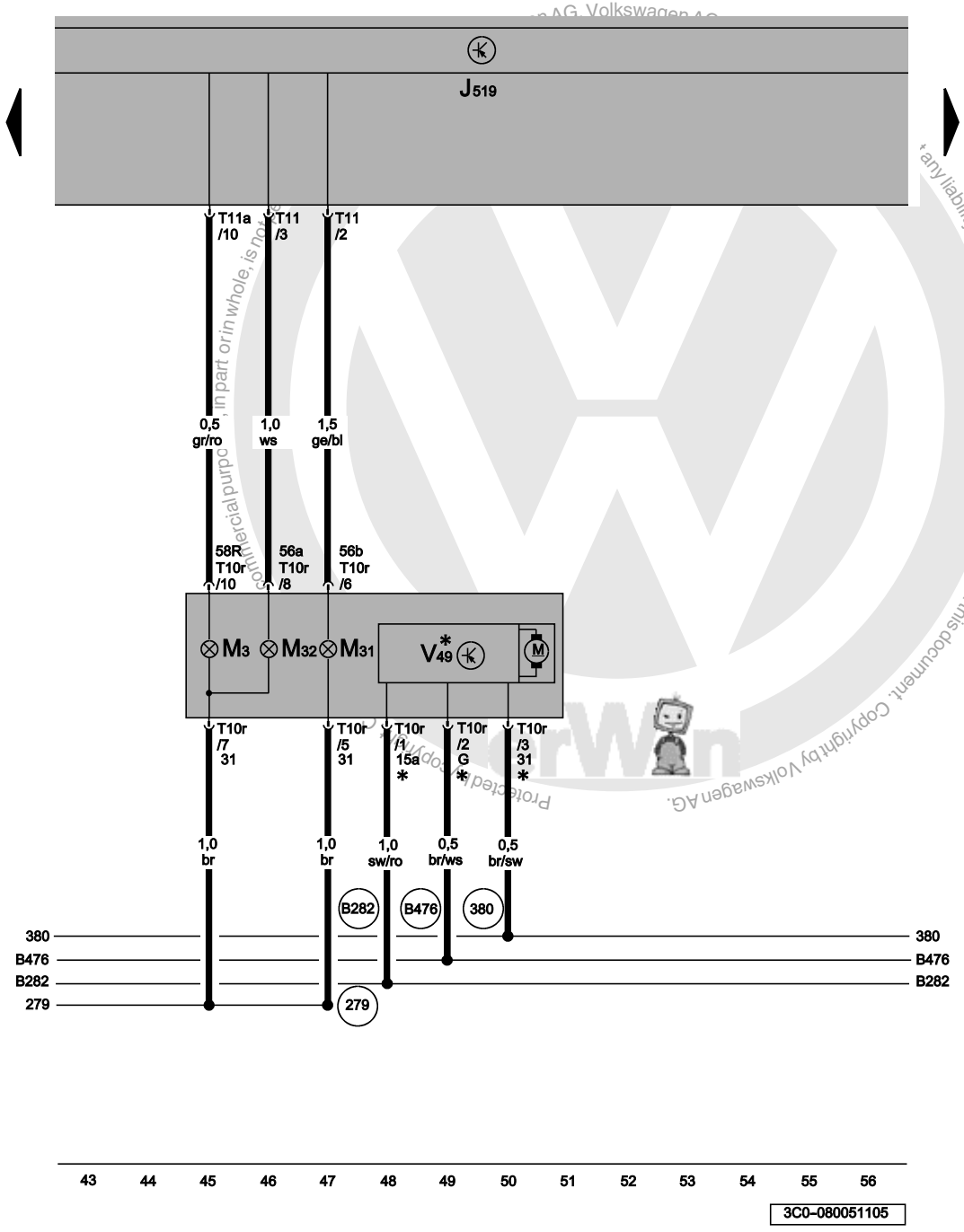


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Side light bulbs, left dipped beam and main beam headlight, left servomotor for headlight range control, bonnet contact switch

F266	Bonnet contact switch
J519	Onboard supply control unit
M1	Left side light bulb
M29	Left headlight dipped beam bulb
M30	Left headlight main beam bulb
T2bb	2-pin connector, black, behind right headlight
T8t	8-pin connector, black
T10q	10-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
V48	Left headlight range control motor
279	Earth connection 5, in interior wiring harness
371	Earth connection 6, in main wiring harness
380	Earth connection 15, in main wiring harness
671	Earth point 1, on front of left longitudinal member
685	Earth point 1 at front of right longitudinal member
B282	Connection 6 (15a), in main wiring harness
B476	Connection 12, in main wiring harness
*	Not for American markets, only with headlight range control

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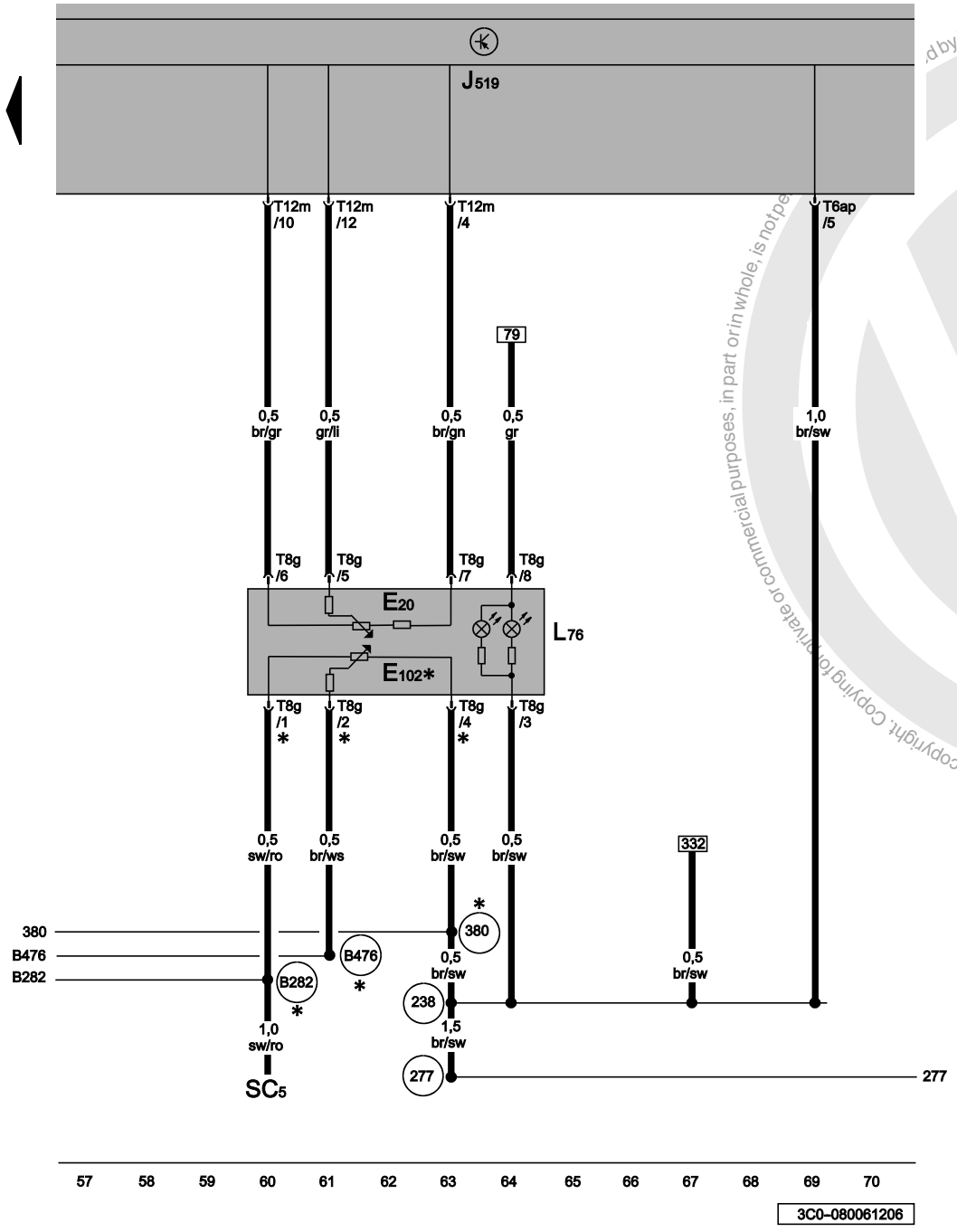


Right side light bulb, right dipped beam headlight bulb, right main beam headlight bulb, servomotor for right headlight range control

J519	Onboard supply control unit
M3	Right side light bulb
M31	Right headlight dipped beam bulb
M32	Right headlight main beam bulb
T10r	10-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
V49	Right headlight range control motor
279	Earth connection 5, in interior wiring harness
380	Earth connection 15, in main wiring harness
B282	Connection 6 (15a), in main wiring harness
B476	Connection 12, in main wiring harness
*	Not for American markets, only with headlight range control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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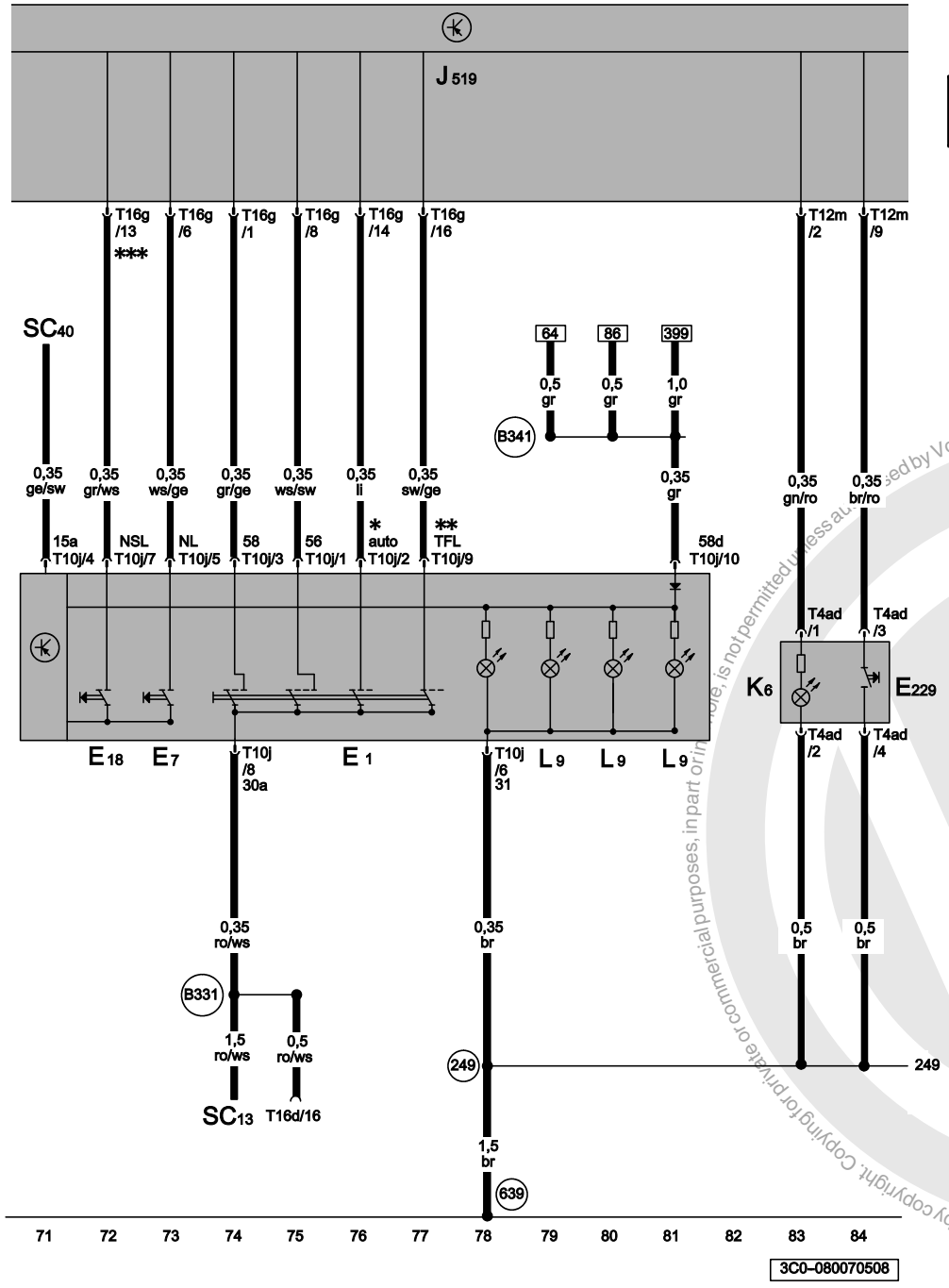


Switch and instrument illumination regulator, button illumination bulb, headlight range control adjuster

E20	Switch and instrument illumination regulator
E102	Headlight range control regulator
J519	Onboard supply control unit
L76	Button illumination bulb
SC5	Fuse 5 on fuse holder C
T6ap	6-pin connector, black
T8g	8-pin connector
T12m	12-pin connector, black
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
380	Earth connection 15, in main wiring harness
B282	Connection 6 (15a), in main wiring harness
B476	Connection 12, in main wiring harness
*	Not for American markets, only with headlight range control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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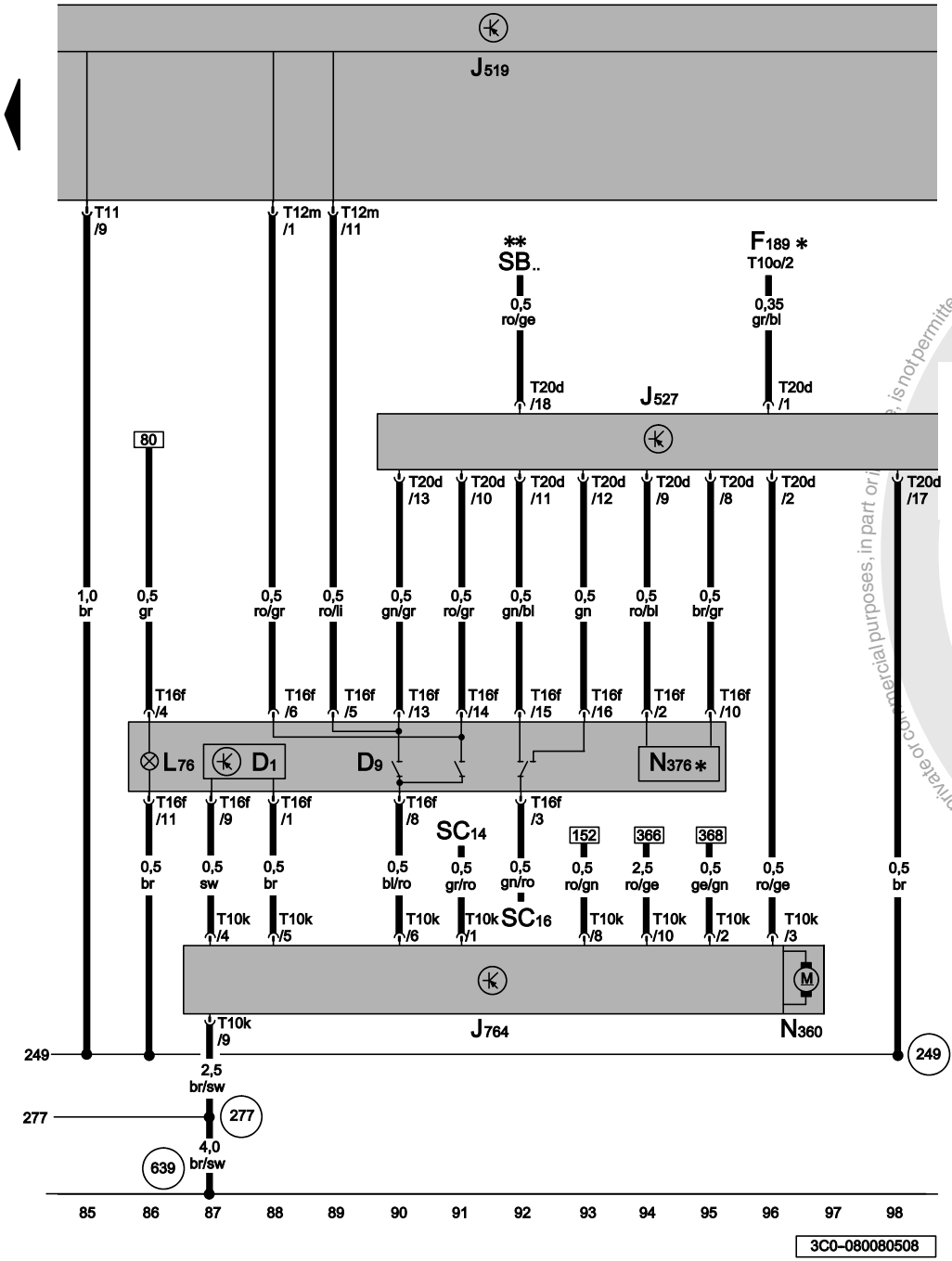


Light switch, fog light switch, light switch illumination bulb, button for hazard warning lights

E1	Light switch
E7	Fog light switch
E18	Rear fog light switch
E229	Hazard warning lights button
J519	Onboard supply control unit
K6	Warning lamp for hazard warning light
L9	Light switch illumination bulb
SC13	Fuse 13 on fuse holder C
SC40	Fuse 40 on fuse holder C
T4ad	4-pin connector
T10j	10-pin connector, black
T12m	12-pin connector, black
T16d	16-pin connector, self-diagnosis connection
T16g	16-pin connector, black
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B331	Connection 17 (30a), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only models with driving lights assist
**	Only models with daytime running lights
***	Depends on equipment for American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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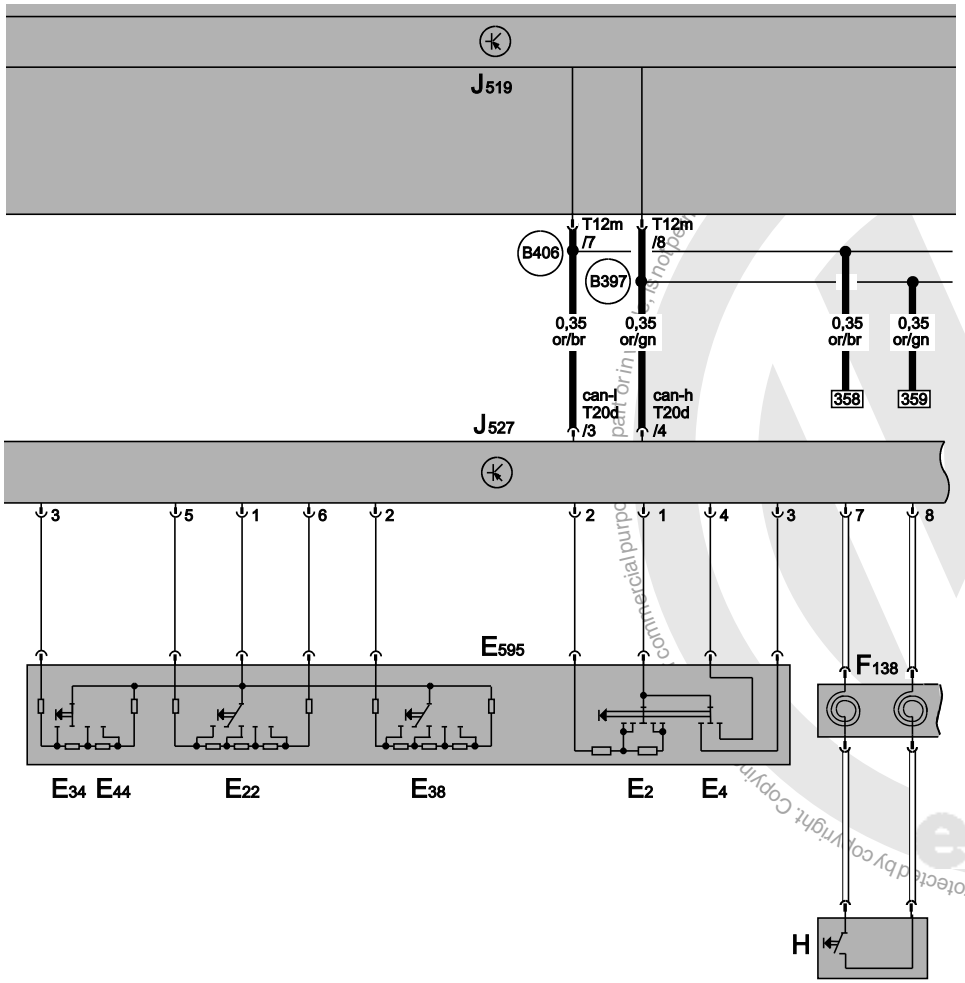


Tiptronic switch, immobilizer reading unit, control unit for electronic steering column lock, control unit for steering column electronics, electronic ignition lock

F189	Tiptronic switch
D1	Immobiliser reading unit
D9	Electronic ignition lock
J519	Onboard supply control unit
J527	Steering column electronics control unit
J764	Electronic steering column lock control unit
L76	Button illumination bulb
N360	Steering column lock control element
N376	Ignition key withdrawal lock solenoid
SB	Fuse holder B
SC14	Fuse 14 on fuse holder C
SC16	Fuse 16 on fuse holder C
T10k	10-pin connector
T10o	10-pin connector
T11	11-pin connector, black
T12m	12-pin connector, black
T16f	16-pin connector
T20d	20-pin connector
249	Earth connection 2, in interior wiring harness
277	Earth connection 3, in interior wiring harness
639	Earth point, left A-pillar
*	Only models with automatic gearbox
**	Fuse assignment depends on equipment, see Fitting Locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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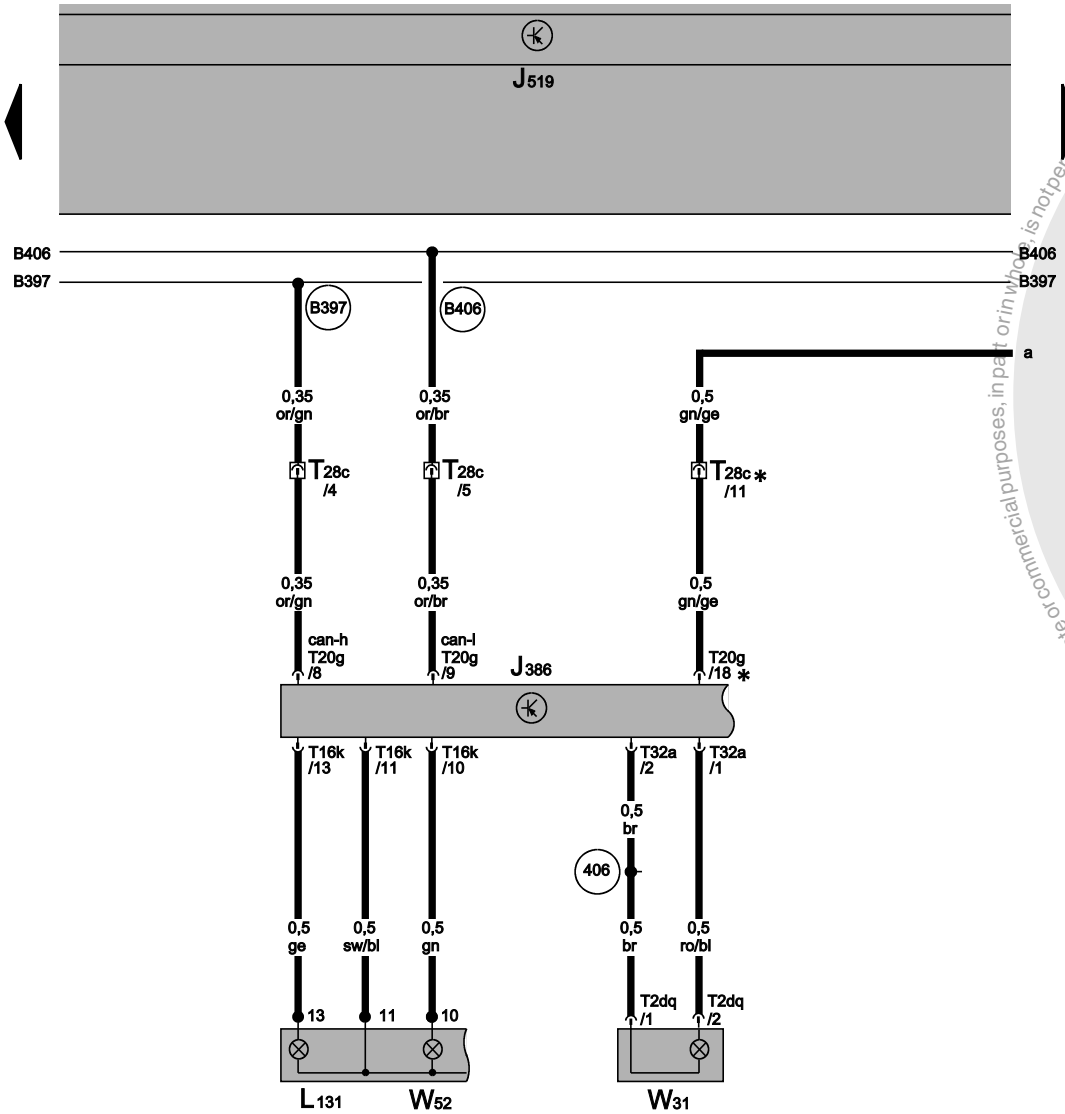
Turn signal switch, intermittent wiper switch, airbag coil connector, horn plate, steering column combination switch

E2	Turn signal switch
E4	Headlight dipper and flasher switch
E22	Intermittent wiper switch
E34	Rear wiper switch
E38	Intermittent wipe regulator
E44	Washer pump switch (automatic wash/wipe and headlight washer system)
E595	Steering column combination switch
F138	Airbag coil connector and return ring with slip ring
H	Horn plate
J519	Onboard supply control unit
J527	Steering column electronics control unit
T12m	12-pin connector, black
T20d	20-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
<fo:exter	Flexible printed circuit

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
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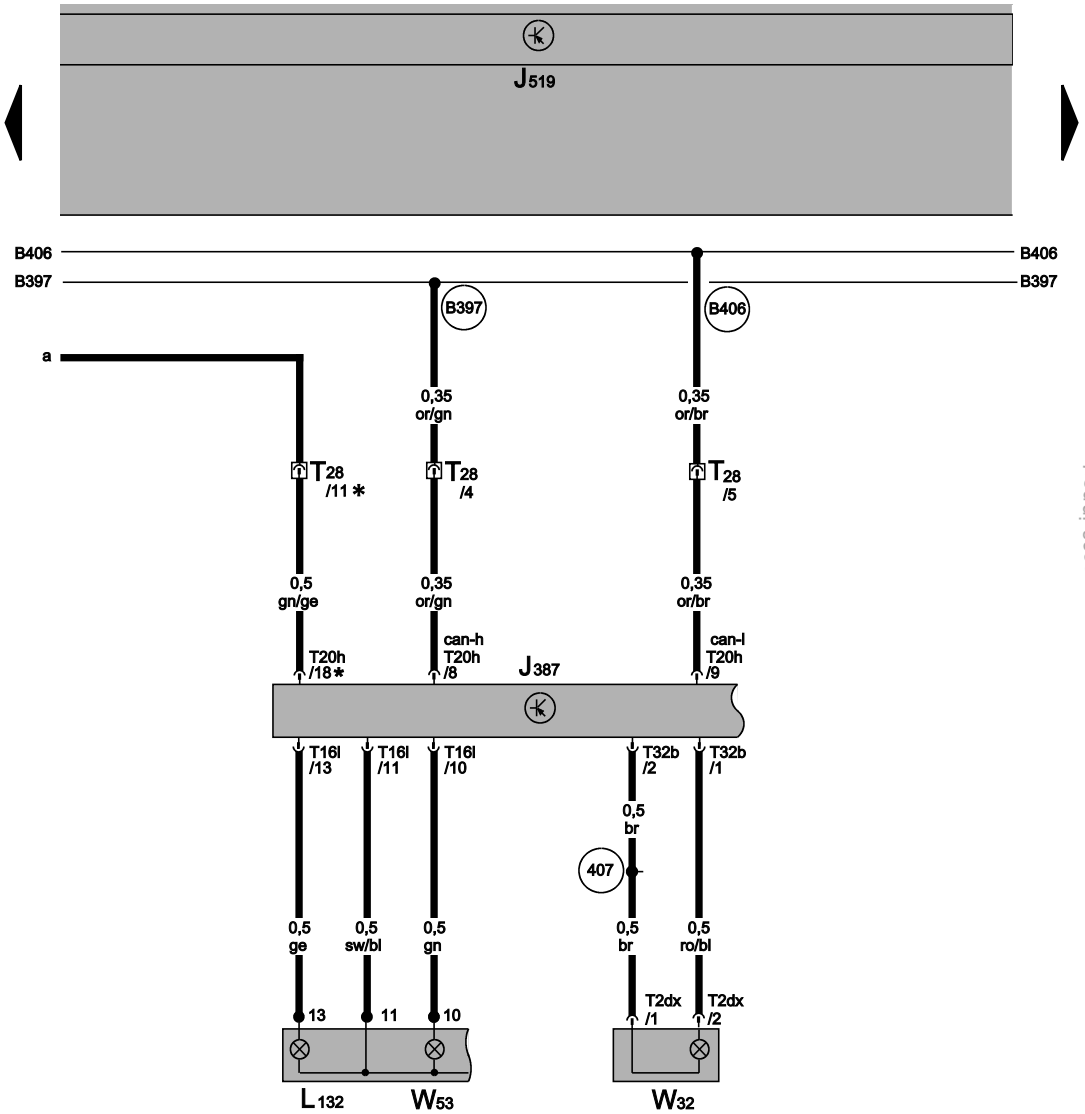


Door control unit driver side, front left entry light, entry light in exterior mirror driver side, turn signal bulb in exterior mirror driver side

J386	Driver door control unit
J519	Onboard supply control unit
L131	Driver side exterior mirror turn signal bulb
T2dq	2-pin connector
T16k	16-pin connector
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
T32a	32-pin connector
W31	Front left entry light
W52	Driver side entry light in exterior mirror
406	Earth connection 3, in driver side door wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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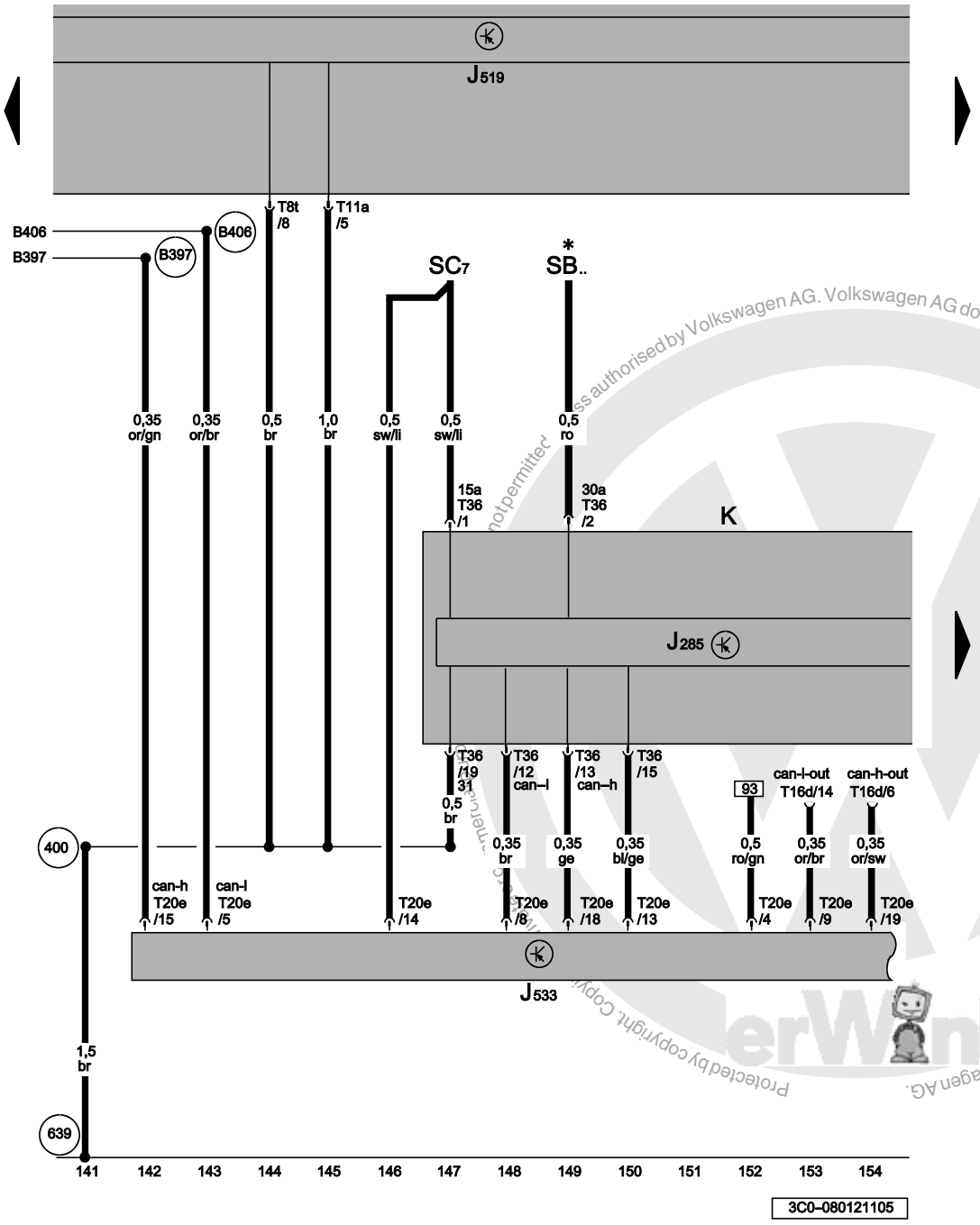


Door control unit front passenger side, front right entry light, turn signal bulb in exterior mirror front passenger side, entry light in exterior mirror front passenger side

J387	Front passenger side door control unit
J519	Onboard supply control unit
L132	Front passenger side exterior mirror turn signal bulb
T2dx	2-pin connector
T16l	16-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T32b	32-pin connector
W32	Front right entry light
W53	Front passenger side entry light in exterior mirror
407	Earth connection 3, in front passenger side door wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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rs	=	pink

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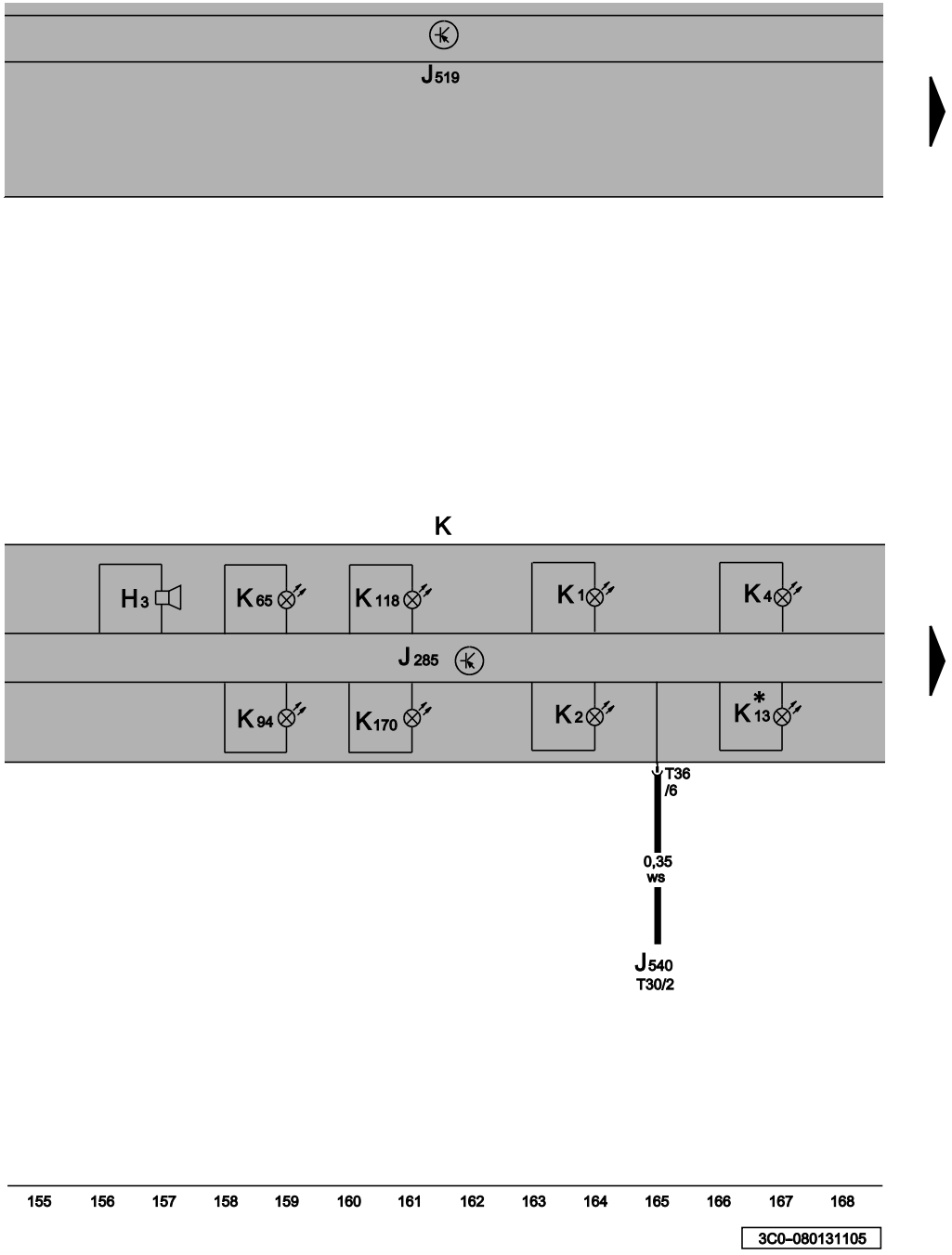


Dash panel insert, data bus diagnosis interface, self-diagnosis connection

J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
K	Dash panel insert
SB	Fuse holder B
SC7	Fuse 7 on fuse holder C
T8t	8-pin connector, black
T11a	11-pin connector, brown
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T36	36-pin connector
400	Earth connection 35, in main wiring harness
639	Earth point, left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Fuse assignment depends on equipment, see Fitting Locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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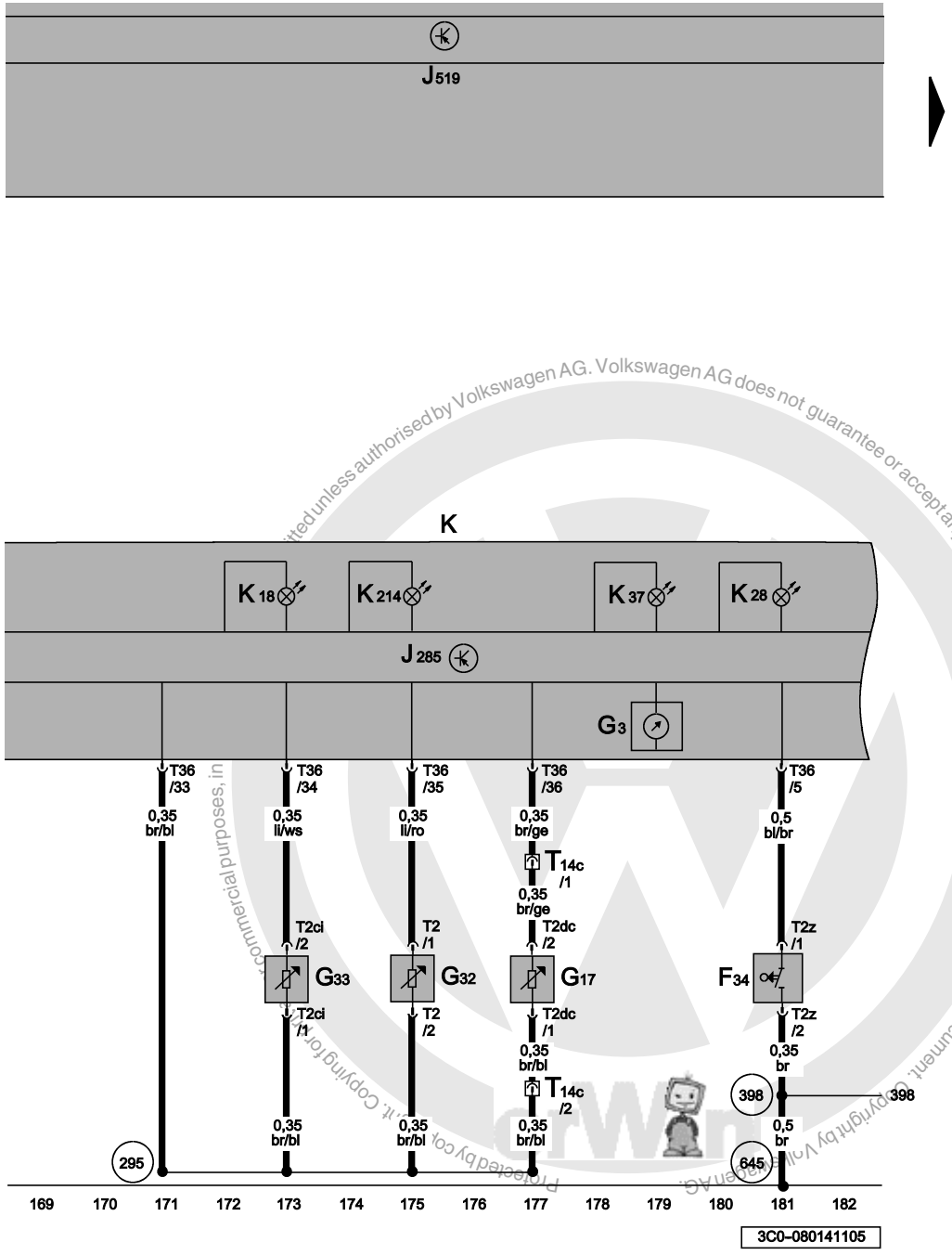


Dash panel insert, control unit in dash panel insert, warning lamps, brake system warning lamp, bulb failure warning lamp

H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
K	Dash panel insert
K1	Main beam warning lamp
K2	Alternator warning lamp
K4	Side light warning lamp
K13	Rear fog light warning lamp
K65	Left turn signal warning lamp
K94	Right turn signal warning lamp
K118	Brake system warning lamp
K170	Bulb failure warning lamp
T30	30-pin connector
T36	36-pin connector
*	Depends on equipment for American markets

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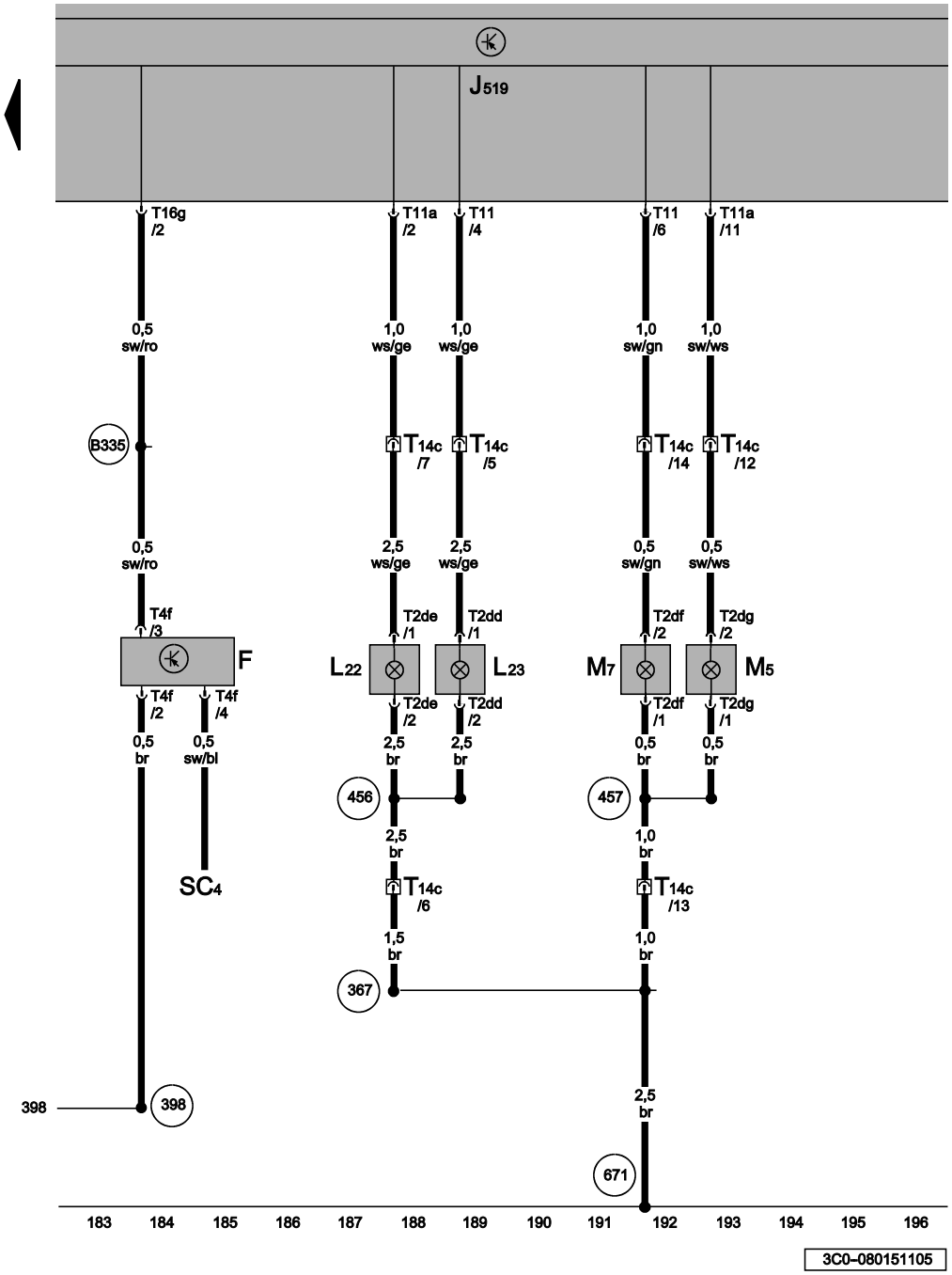


Dash panel insert, brake fluid level warning contact, ambient temperature sensor, coolant shortage indicator sender, washer fluid level sender

F34	Brake fluid level warning contact
G3	Coolant temperature gauge
G17	Ambient temperature sensor
G32	Coolant shortage indicator sender
G33	Windscreen washer fluid level sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K18	Trailer coupling warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K37	Washer fluid level warning lamp
K214	Electric parking brake and handbrake fault warning lamp
T2	2-pin connector
T2ci	2-pin connector
T2dc	2-pin connector
T2z	2-pin connector
T14c	14-pin connector, coupling point, front bumper
T36	36-pin connector
(295)	Earth connection 10, in interior wiring harness
(398)	Earth connection 33, in main wiring harness
(645)	Earth point 1, on bulkhead

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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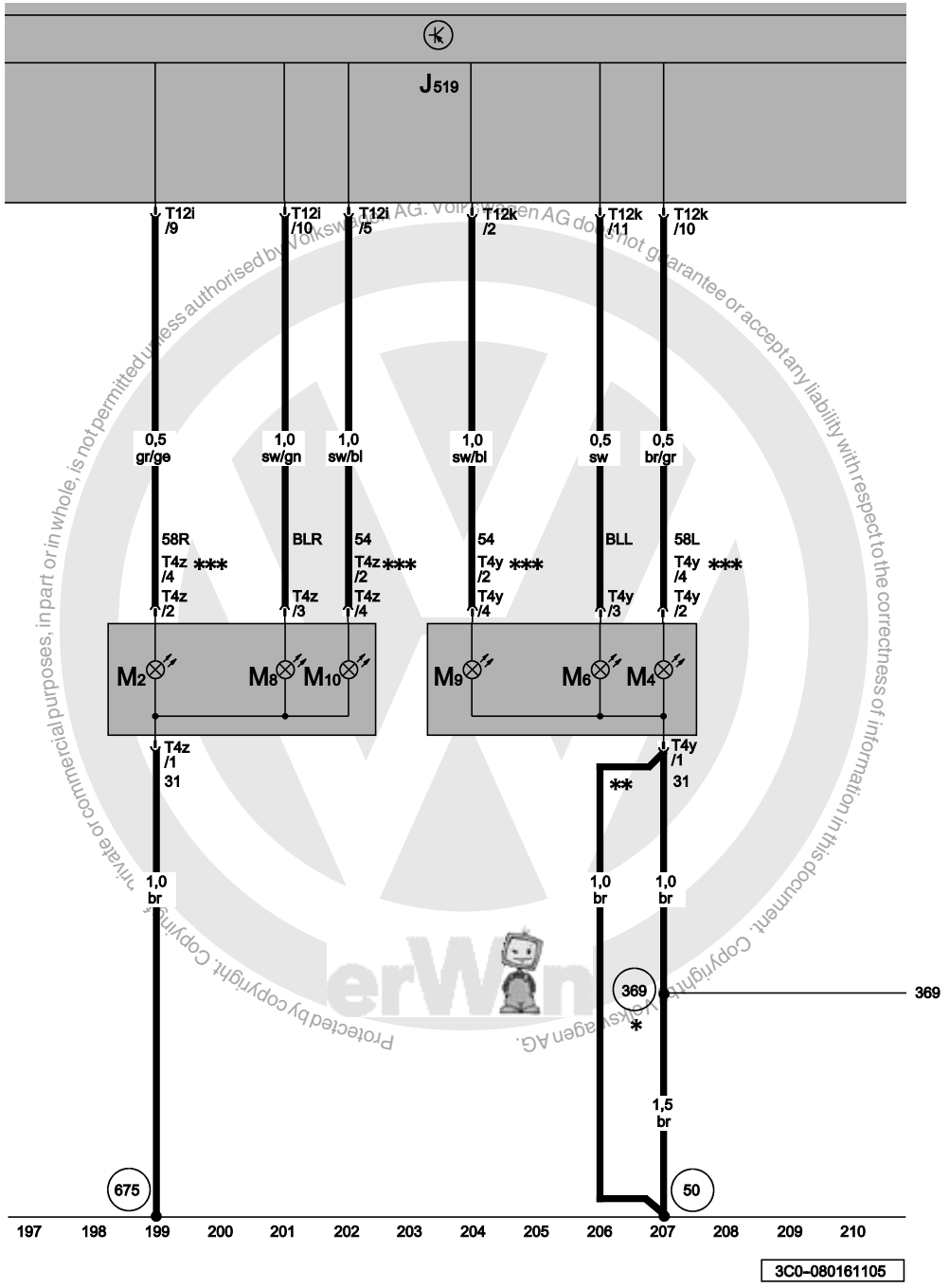


Turn signal and fog light bulbs, brake light switch

F	Brake light switch
J519	Onboard supply control unit
L22	Left fog light bulb
L23	Right fog light bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
SC4	Fuse 4 on fuse holder C
T2dd	2-pin connector
T2de	2-pin connector
T2df	2-pin connector
T2dg	2-pin connector
T4f	4-pin connector
T11	11-pin connector, black
T11a	11-pin connector, brown
T14c	14-pin connector, coupling point, front bumper on left
T16g	16-pin connector, black
367	Earth connection 2, in main wiring harness
398	Earth connection 33, in main wiring harness
456	Earth connection 1, front bumper wiring harness
457	Earth connection 2, front bumper wiring harness
671	Earth point 1, on front of left longitudinal member
B335	Connection 1 (54), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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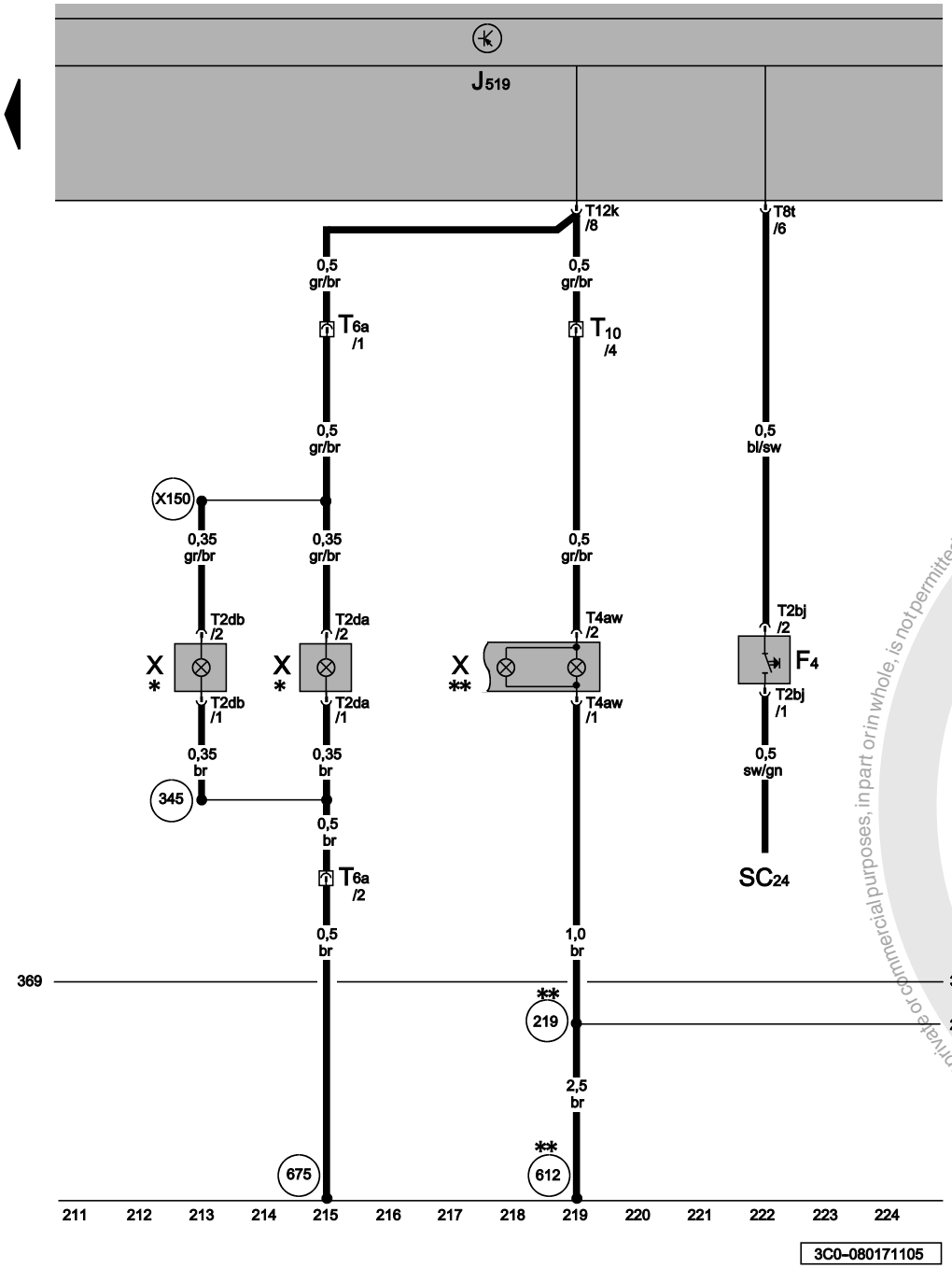


Bulbs for tail lights, turn signals, brake lights

J519	Onboard supply control unit
M2	Right tail light bulb
M4	Left tail light bulb
M6	Rear left turn signal bulb
M8	Rear right turn signal bulb
M9	Left brake light bulb
M10	Right brake light bulb
T4y	4-pin connector
T4z	4-pin connector
T12i	12-pin connector, black
T12k	12-pin connector, brown
50	Earth point, on left in luggage compartment
369	Earth connection 4, in main wiring harness
675	Earth point 2, on right in luggage compartment
*	Only on saloon models
**	Only Variant models
***	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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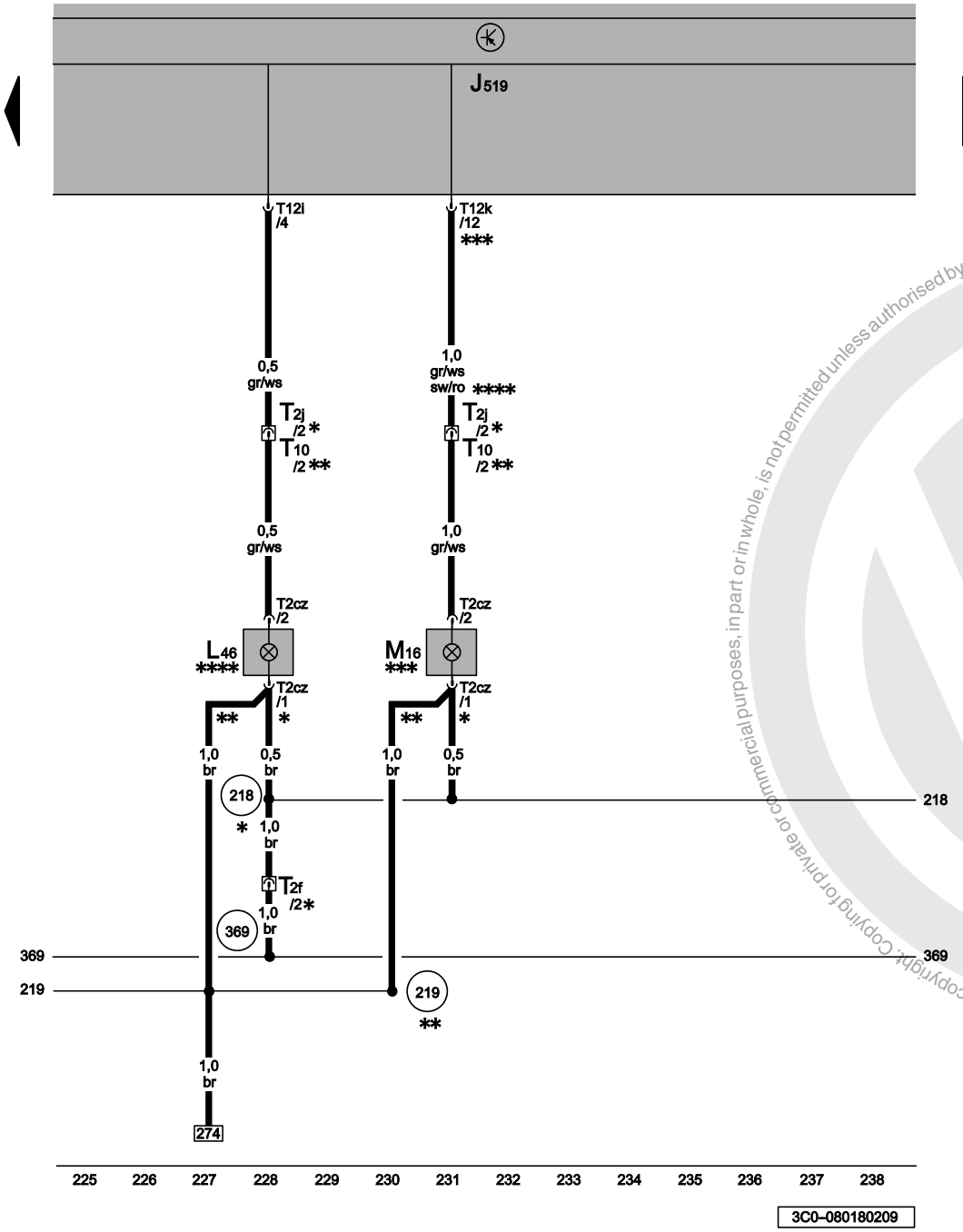


Registration plate light, reversing light switch

F4	Reversing light switch
J519	Onboard supply control unit
SC24	Fuse 24 on fuse holder C
T2bj	2-pin connector
T2da	2-pin connector
T2db	2-pin connector
T4aw	4-pin connector, coupling point number plate light
T6a	6-pin connector, black, coupling point for number plate illumination
T8t	8-pin connector, black
T10	10-pin connector, coupling point on left of rear lid
T12k	12-pin connector, brown
X	Number plate light
219	Earth connection 2, in rear lid wiring harness
345	Earth connection, in bumper wiring harness
612	Earth point, centre on rear lid
675	Earth point 2, on right in luggage compartment
X150	Connection (58), rear bumper wiring harness
*	Only on saloon models
**	Only Variant models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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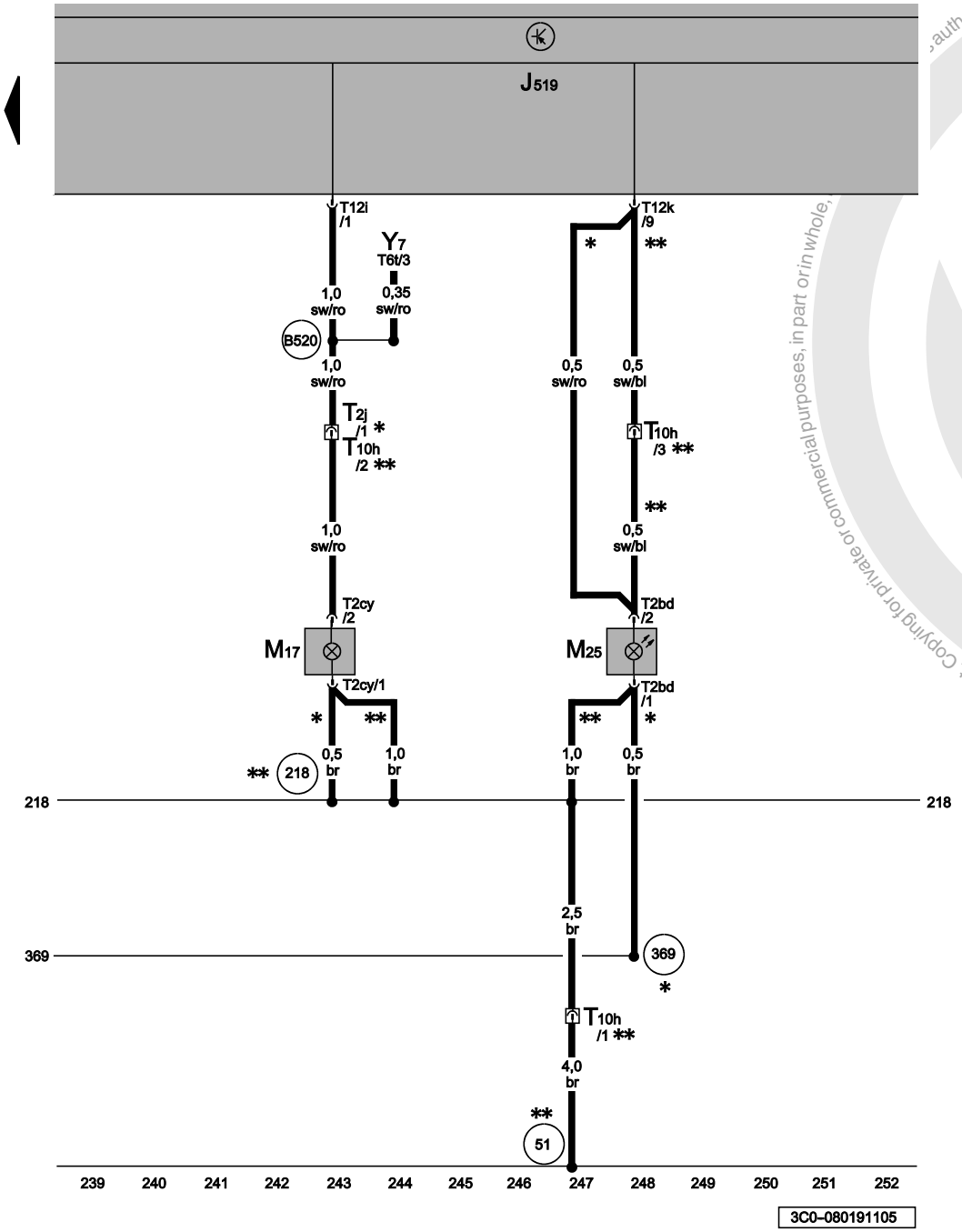


Left reversing light bulb, rear left fog light bulb

J519	Onboard supply control unit
L46	Rear left fog light bulb
M16	Left reversing light bulb
T2cz	2-pin connector
T2f	2-pin connector, coupling point 2, rear lid
T2j	2-pin connector, coupling point 3, rear lid
T10	10-pin connector, coupling point on left of rear lid
T12i	12-pin connector, black
T12k	12-pin connector, brown
(218)	Earth connection 1, in rear lid wiring harness
(219)	Earth connection 2, in rear lid wiring harness
(369)	Earth connection 4, in main wiring harness
*	Only on saloon models
**	Only Variant models
***	Depends on equipment for American markets
****	Only Japanese markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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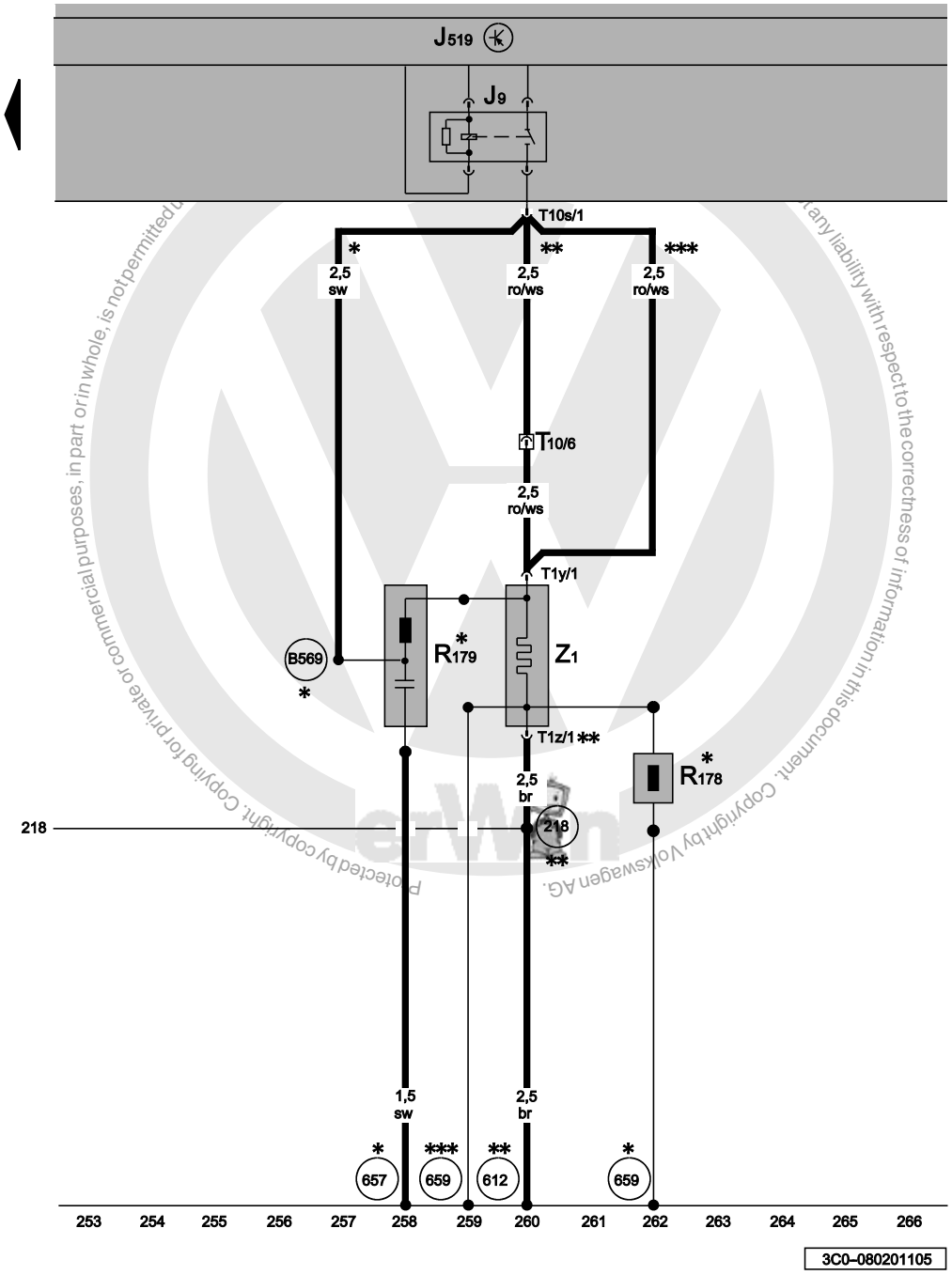


Right reversing light bulb, high-level brake light bulb

J519	Onboard supply control unit
M17	Right reversing light bulb
M25	High-level brake light bulb
T2bd	2-pin connector
T2cy	2-pin connector
T2j	2-pin connector, coupling point 3, rear lid
T6t	6-pin connector
T10h	10-pin connector, coupling point, rear lid right
T12i	12-pin connector, black
T12k	12-pin connector, brown
Y7	Automatic anti-dazzle interior mirror
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
B520	Connection (RL), in main wiring harness
*	Only on saloon models
**	Only Variant models

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
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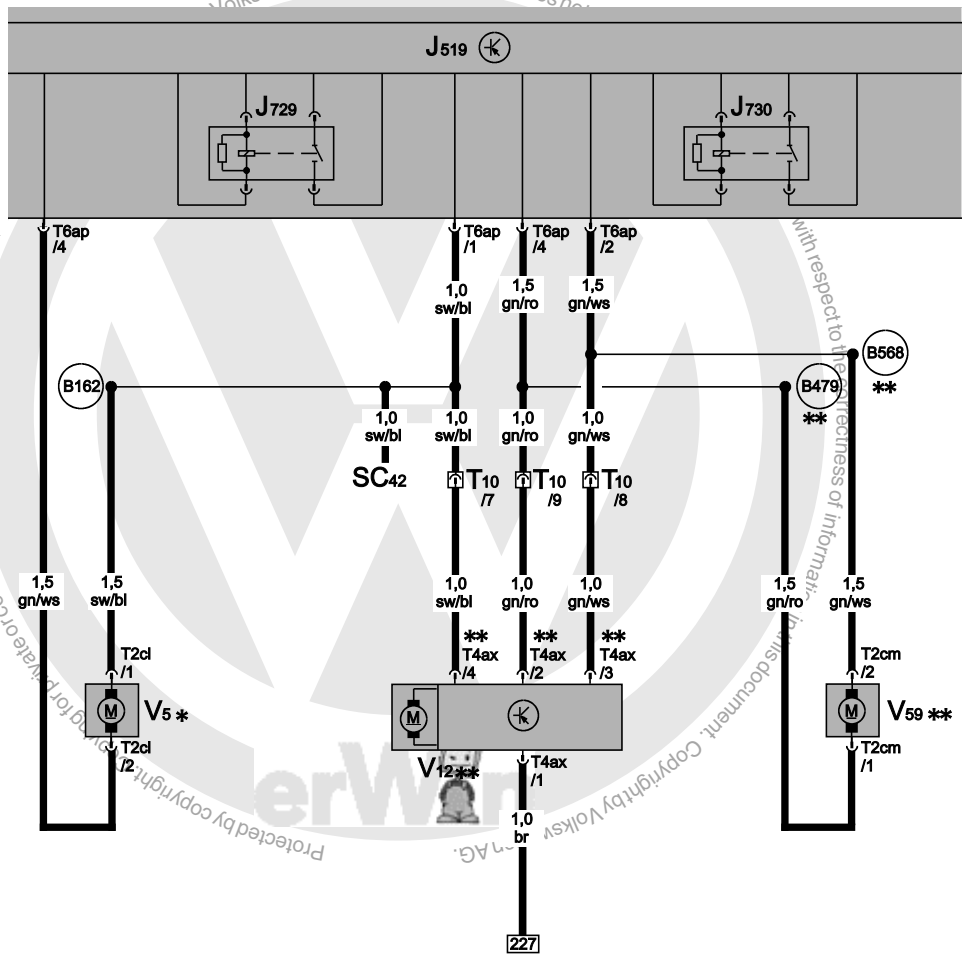


Heated rear window relay, heated rear window, frequency filter for frequency modulation (FM) in negative wire and positive wire

J9	Heated rear window relay
J519	Onboard supply control unit
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T1y	1-pin connector, near rear window
T1z	1-pin connector, near rear window
T10	10-pin connector, coupling point on left of rear lid
T10s	10-pin connector, black
Z1	Heated rear window
218	Earth connection 1, in rear lid wiring harness
612	Earth point, centre on rear lid
657	Earth point 1, on left near rear window
659	Earth point 1, on right near rear window
B569	Connection 36, in main wiring harness
*	Only on saloon models with heated rear window
**	Only Variant models
***	Only saloon with no heated rear window

ws	=	white
sw	=	black
ro	=	red
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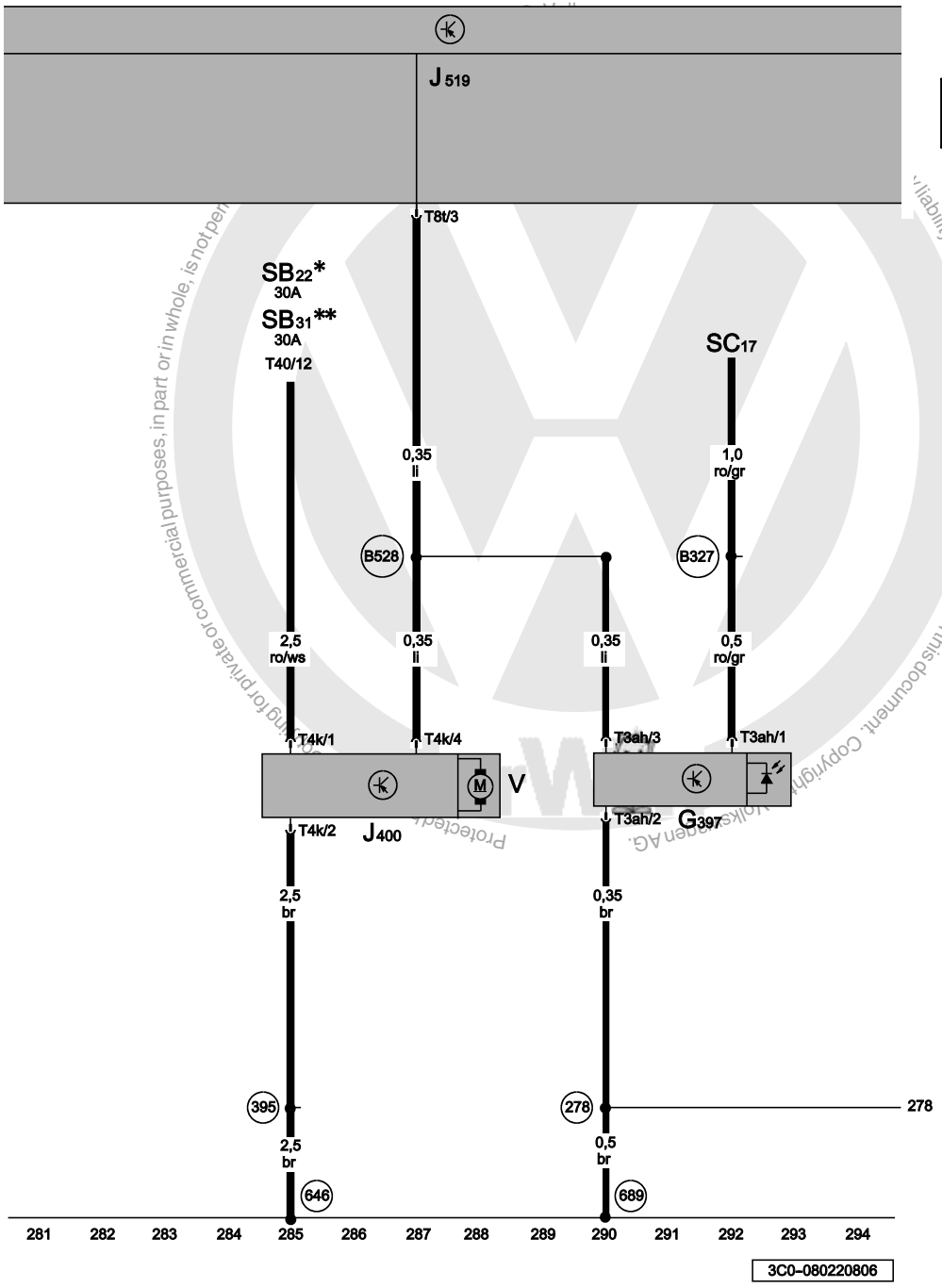
3C0-080210907

Rear window wiper motor, washer pump, double washer pump relay, windscreen and rear window washer pump

J519	Onboard supply control unit
J729	Double washer pump relay 1
J730	Double washer pump relay 2
SC42	Fuse 42 on fuse holder C
T2cl	2-pin connector
T2cm	2-pin connector
T4ax	4-pin connector
T6ap	6-pin connector, black
T10	10-pin connector, coupling point on left of rear lid
V5	Washer pump
V12	Rear window wiper motor
V59	Windscreen and rear window washer pump
B162	Connection (75a), in interior wiring harness
B479	Connection 15, in main wiring harness
B568	Connection 35, in main wiring harness
*	Only on saloon models
**	Only Variant models

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sw	=	black
ro	=	red
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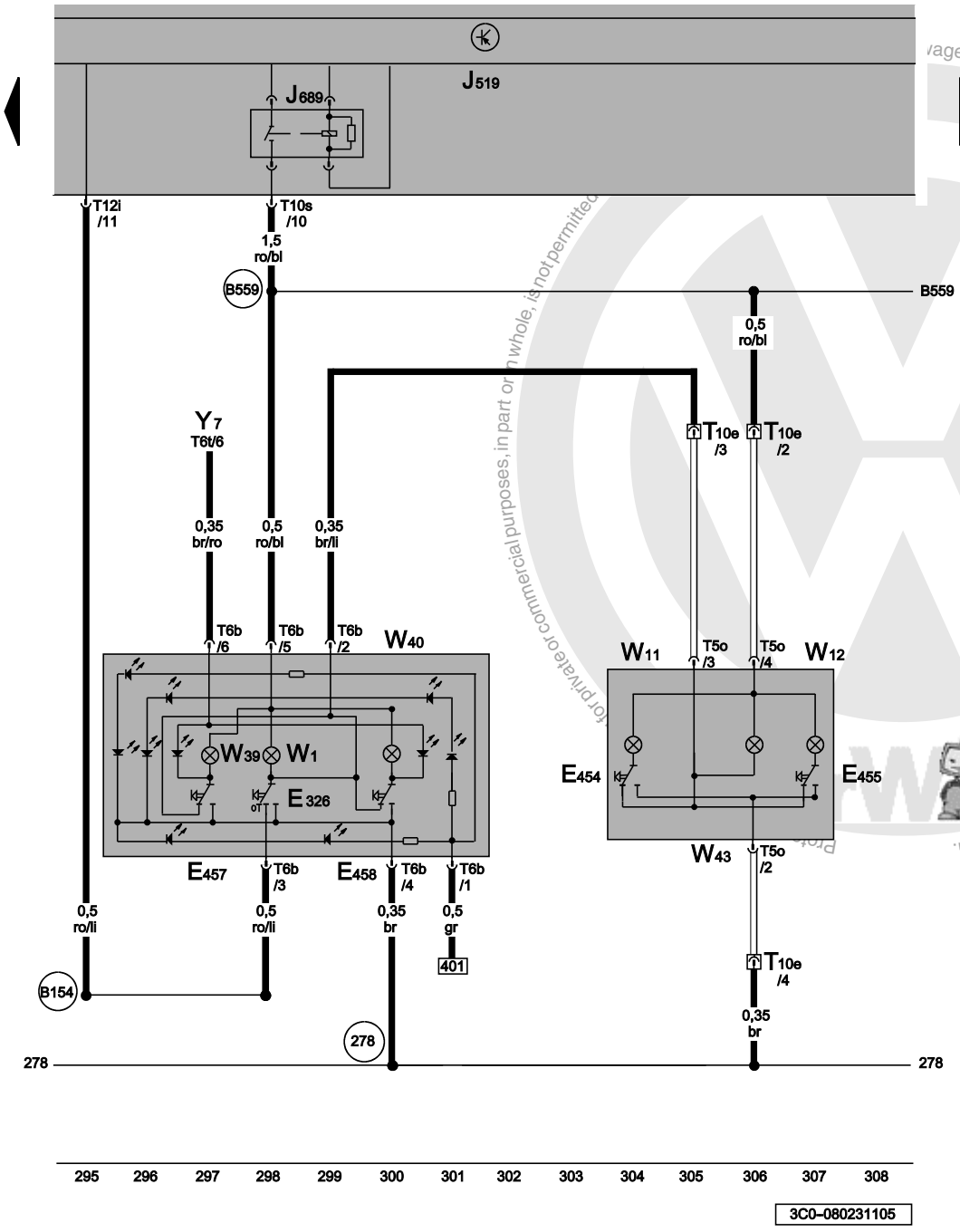


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Rain and light detector sensor, wiper motor control unit

G397	Rain and light detection sensor
J400	Wiper motor control unit
J519	Onboard supply control unit
SB22	Fuse 22 on fuse holder B
SB31	Fuse 31 on fuse holder B
T3ah	3-pin connector
T4k	4-pin connector
T8t	8-pin connector, black
T40	40-pin connector, on E-box
V	Windscreen wiper motor
278	Earth connection 4, in interior wiring harness
395	Earth connection 30, in main wiring harness
646	Earth point 2, on bulkhead
689	Earth point, on front centre of roof
B327	Connection 13 (30a), in main wiring harness
B528	Connection 1 (LIN bus), in main wiring harness
*	Fuses in E-box low
**	Fuses in E-box high

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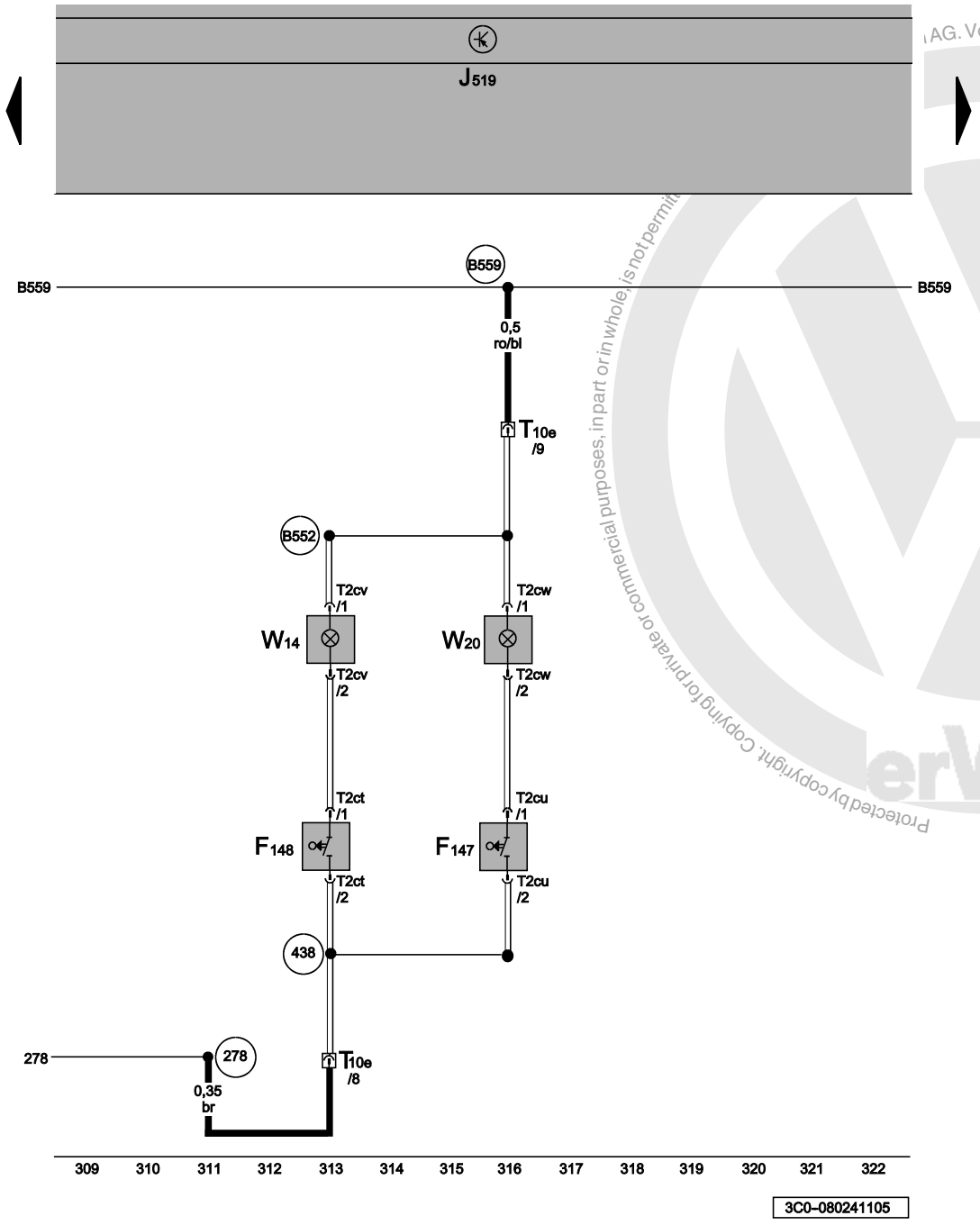
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gn = green
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ge = yellow
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rs = pink

Front interior light, rear left reading light, rear right reading light, centre left reading light, centre right reading light, rear interior light

E326	Front interior light button
E454	Rear left reading light switch
E455	Rear right reading light switch 1
E457	Driver side reading light button
E458	Front passenger side reading light button
J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
T5o	5-pin connector
T6b	6-pin connector
T6t	6-pin connector
T10e	10-pin connector, blue, coupling point for roof wiring harness
T10s	10-pin connector, black
T12i	12-pin connector, black
W1	Front interior light
W11	Rear left reading light
W12	Rear right reading light
W39	Left centre reading light
W40	Right centre reading light
W43	Rear interior light
Y7	Automatic anti-dazzle interior mirror
278	Earth connection 4, in interior wiring harness
B154	Connection 1 (DCt), in interior wiring harness
B559	Connection 1 (30g), in main wiring harness
<fo:exter	Flexible printed circuit

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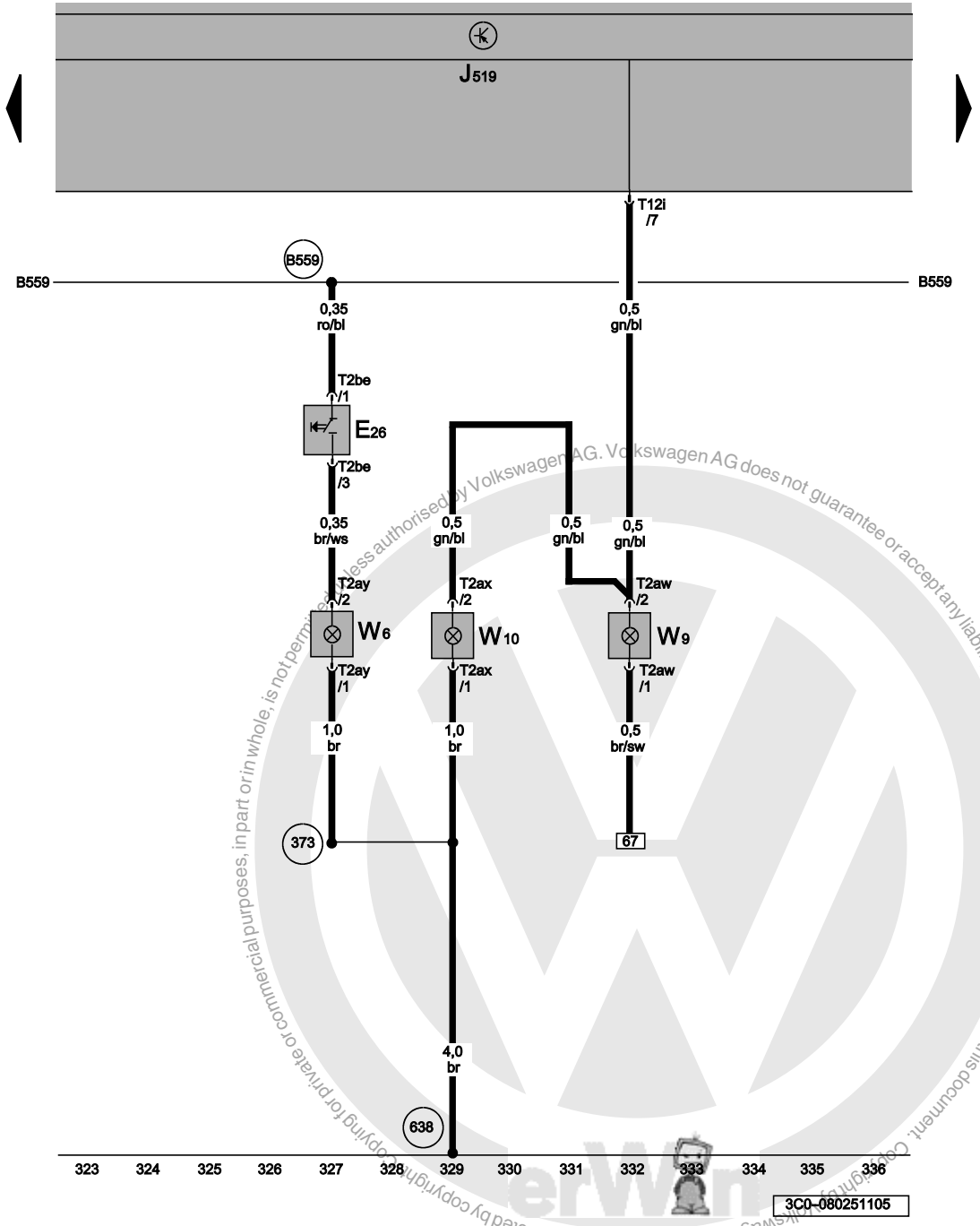


Contact switches for vanity mirrors on driver and front passenger sides

F147	Contact switch for vanity mirror, driver side
F148	Contact switch for vanity mirror, front passenger side
J519	Onboard supply control unit
T2ct	2-pin connector
T2cu	2-pin connector
T2cv	2-pin connector
T2cw	2-pin connector
T10e	10-pin connector, blue, coupling point for roof wiring harness
W14	Illuminated vanity mirror, front passenger side
W20	Illuminated vanity mirror, driver side
278	Earth connection 4, in interior wiring harness
438	Earth connection 3, in roof wiring harness
B552	Positive connection 2, in roof wiring harness
B559	Connection 1 (30g), in main wiring harness
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/rahmen.png" content-width="20pt" scaling="uniform"/>	Flexible printed circuit

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ro	=	red
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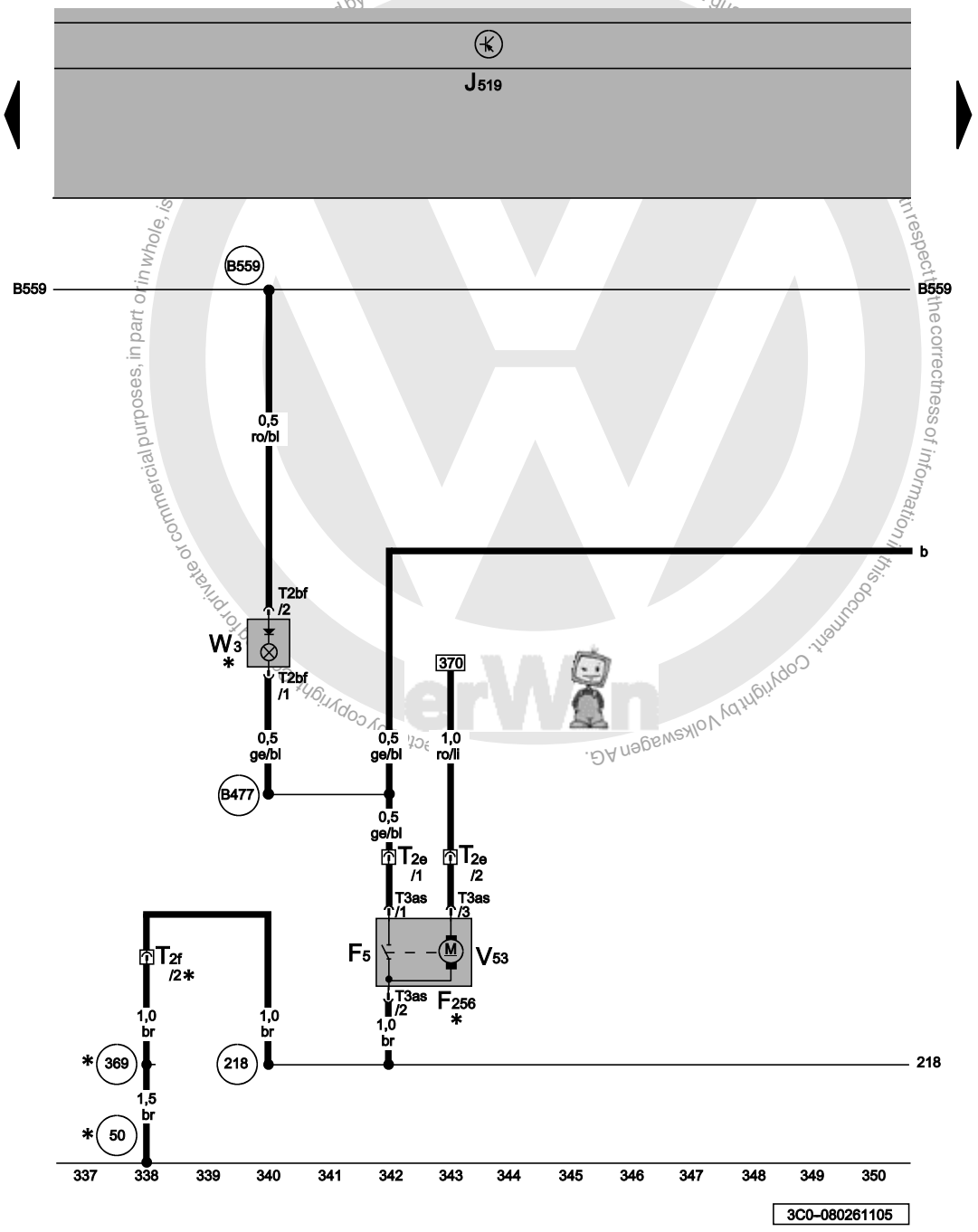


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Glove compartment light switch, glove compartment light, footwell lights

E26	Glove compartment light switch
J519	Onboard supply control unit
T2aw	2-pin connector
T2ax	2-pin connector
T2ay	2-pin connector
T2be	2-pin connector
T12i	12-pin connector, black
W6	Glove compartment light
W9	Left footwell light
W10	Right footwell light
373	Earth connection 8, in main wiring harness
638	Earth point, on right A-pillar
B559	Connection 1 (30g), in main wiring harness

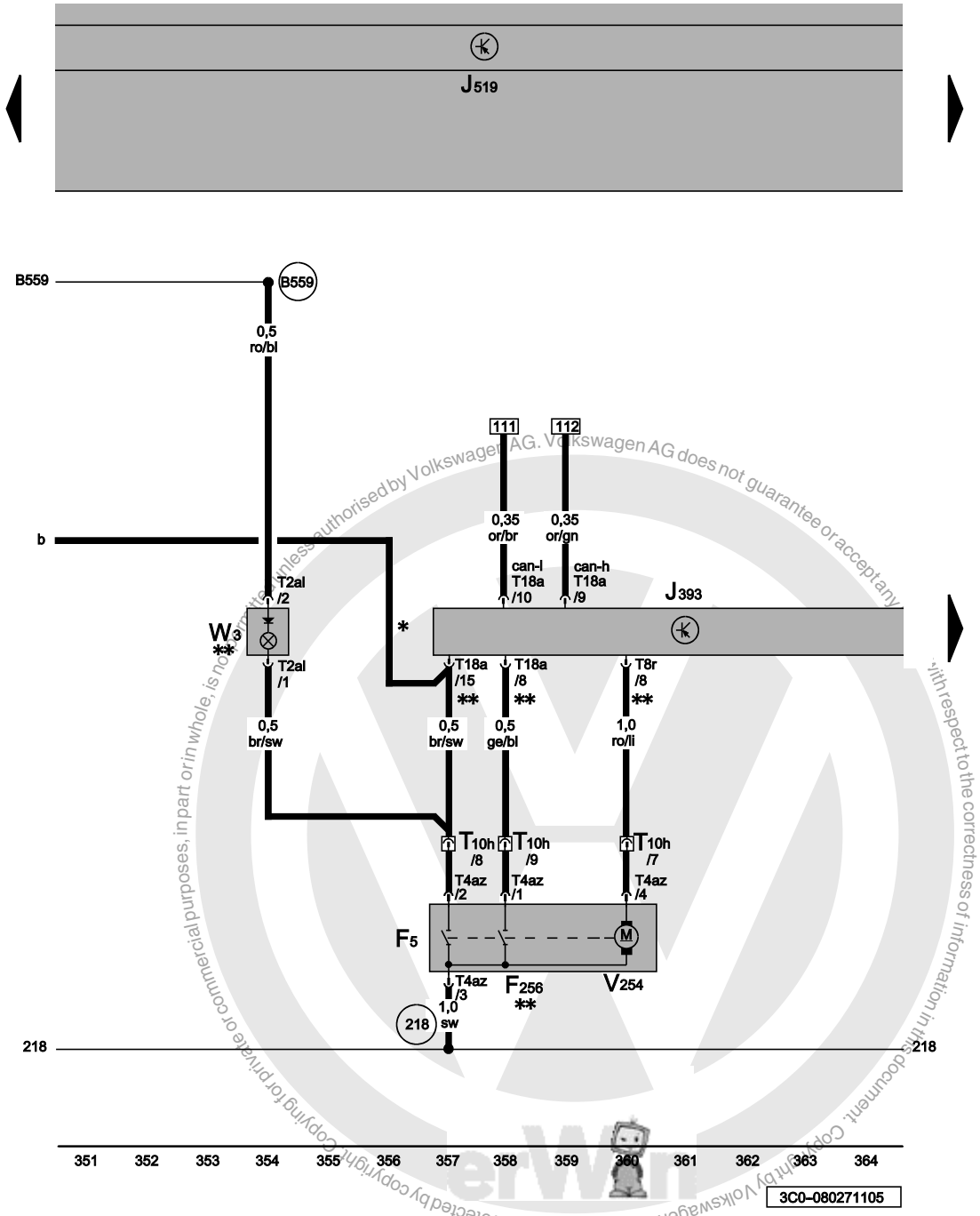
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rs	=	pink



Luggage compartment light switch, rear lid central locking motor, luggage compartment light

F5	Luggage compartment light switch
F256	Rear lid lock unit
J519	Onboard supply control unit
T2bf	2-pin connector
T2e	2-pin connector, coupling point, rear lid (saloon)
T2f	2-pin connector, coupling point, rear lid (saloon)
T3as	3-pin connector, rear lid lock (saloon)
V53	Rear lid central locking motor
W3	Luggage compartment light
50	Earth point, on left in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
B477	Connection 13, in main wiring harness
B559	Connection 1 (30g), in main wiring harness
*	Only on saloon models

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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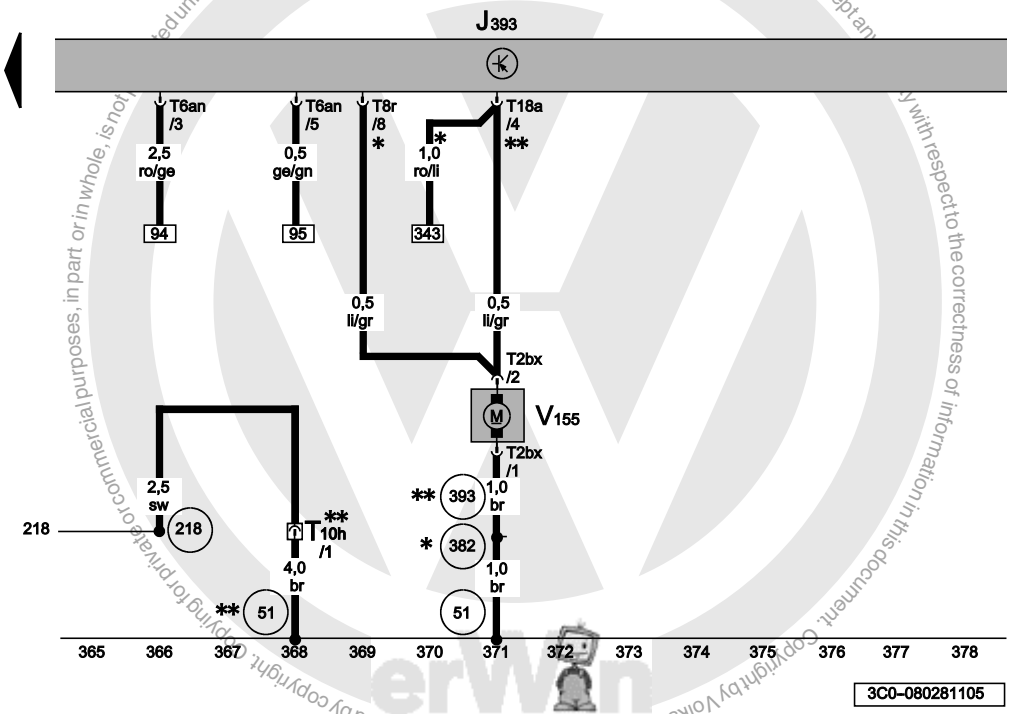
Rear lid lock unit, central control unit for convenience system, rear lid electric release motor, luggage compartment light

F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2al	2-pin connector
T4az	4-pin connector, rear lid lock (Variant)
T8r	8-pin connector
T10h	10-pin connector, coupling point, rear lid (Variant)
T18a	18-pin connector
V254	Rear lid electric release motor
W3	Luggage compartment light
218	Earth connection 1, in rear lid wiring harness
B559	Connection 1 (30g), in main wiring harness
*	Only on saloon models
**	Only Variant models

ws	=	white
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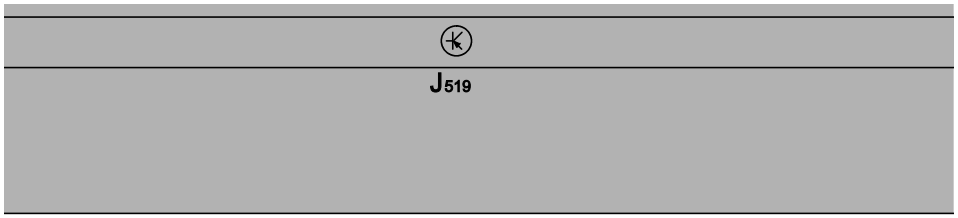


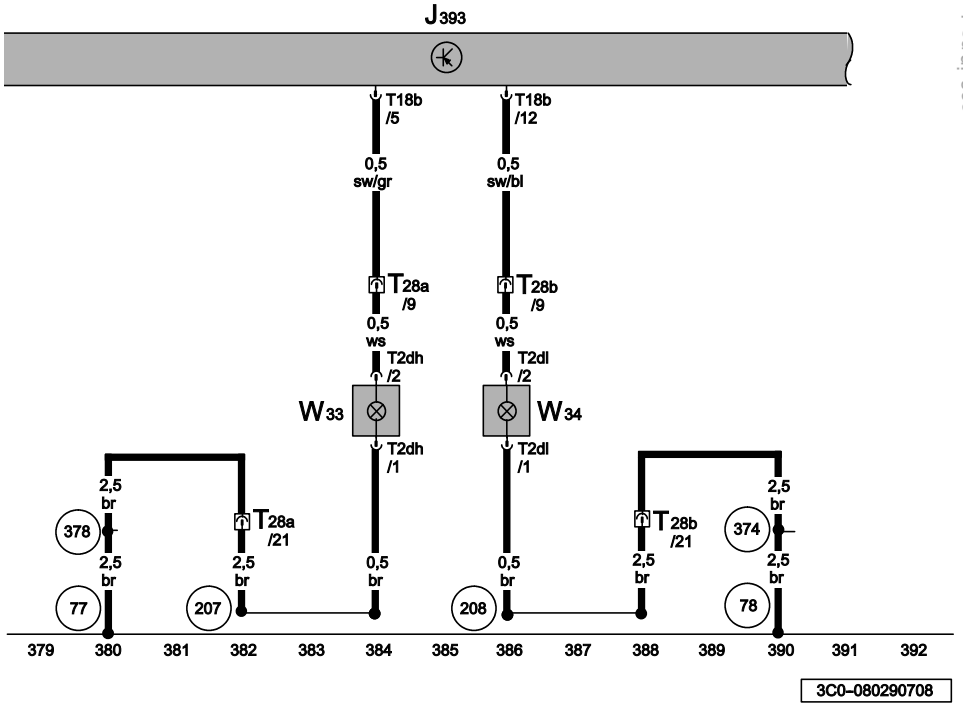
Central control unit for convenience system, tank filler flap locking motor

J393	Convenience system central control unit
J519	Onboard supply control unit
T2bx	2-pin connector
T6an	6-pin connector
T8r	8-pin connector
T10h	10-pin connector, coupling point, rear lid (Variant)
T18a	18-pin connector
V155	Tank filler flap locking motor
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
382	Earth connection 17, in main wiring harness
393	Earth connection 28, in main wiring harness
*	Only on saloon models
**	Only Variant models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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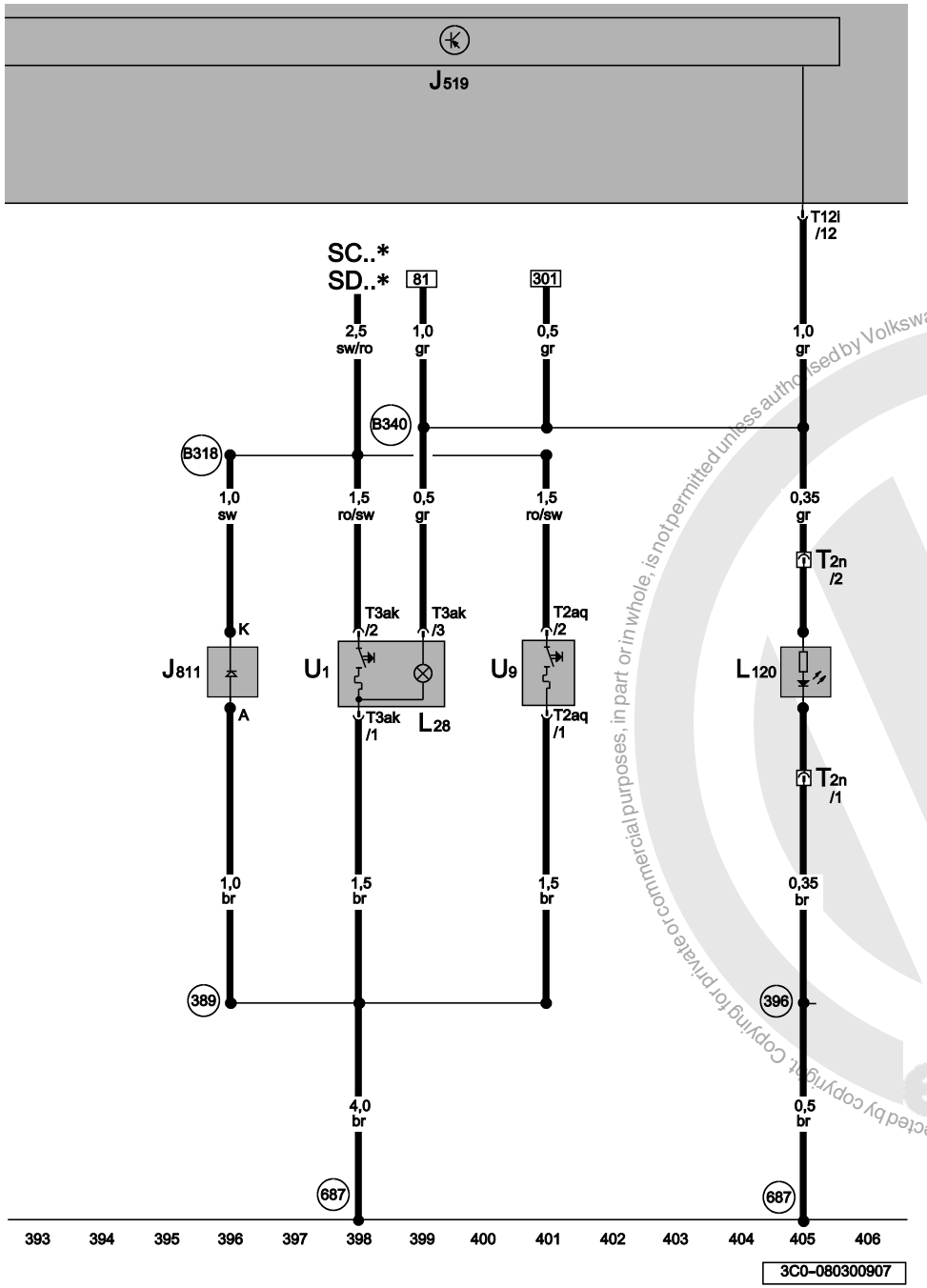


Central control unit for convenience system, rear left and right entry light

J393	Convenience system central control unit
J519	Onboard supply control unit
T2dh	2-pin connector
T2dl	2-pin connector
T18b	18-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
W33	Rear left entry light
W34	Rear right entry light
77	Earth point, lower part of left B-pillar
78	Earth point, lower part of right B-pillar
207	Earth connection, in rear left door wiring harness
208	Earth connection, in rear right door wiring harness
374	Earth connection 9, in main wiring harness
378	Earth connection 13, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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bl	=	blue
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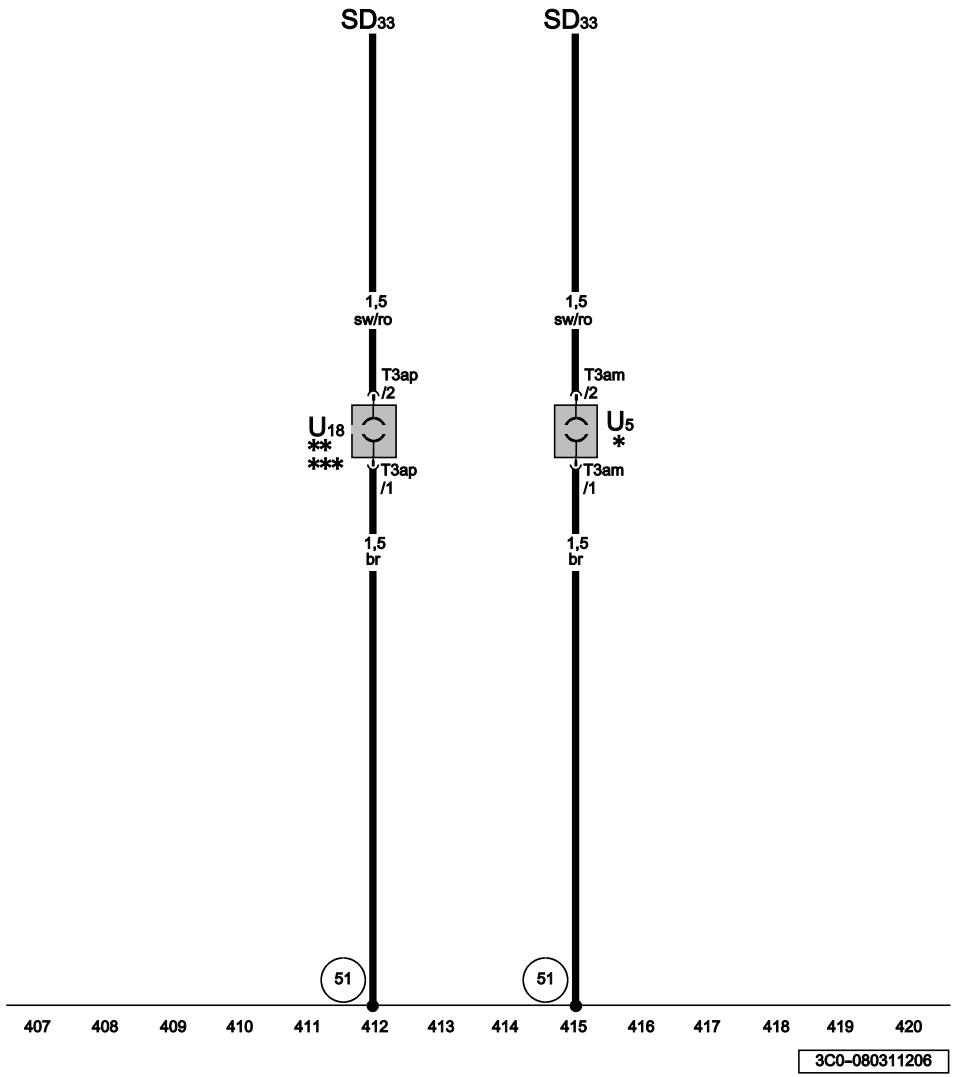
Cigarette lighter, storage compartment illumination bulb, blocking diode 2

J519	Onboard supply control unit
J811	Blocking diode 2
L28	Cigarette lighter illumination bulb
L120	Storage compartment illumination bulb
T2aq	2-pin connector
T2n	2-pin connector, centre console
T3ak	3-pin connector
T12i	12-pin connector, black
U1	Cigarette lighter
U9	Rear cigarette lighter
389	Earth connection 24, in main wiring harness
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B318	Connection 4 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
*	Fuse assignment depends on equipment, see CFD Cigarette Lighter

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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12 V sockets

SD33	Fuse 38 on fuse holder D
T3am	3-pin connector
T3ap	3-pin connector
U5	12 V socket, in luggage compartment
U18	12 V socket 2, in luggage compartment
51	Earth point, on right in luggage compartment
*	Only on saloon models
**	Only Variant models
***	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
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Fuse concept, 1 battery, petrol engine

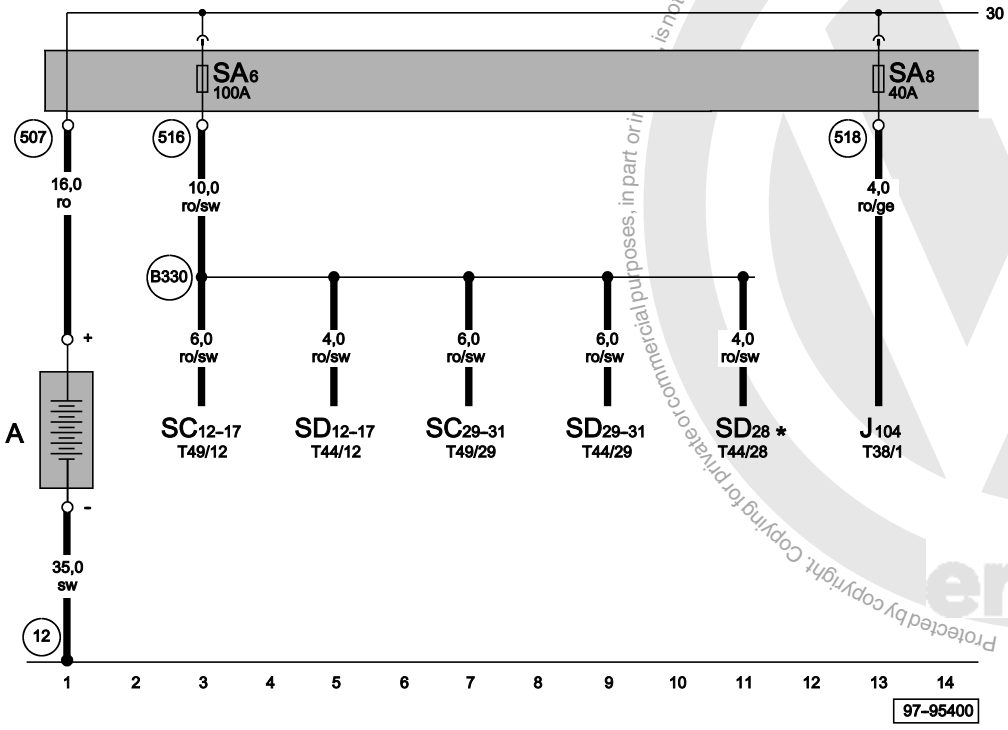
⇒ **Fuse SA, in E-box low**
⇒ **Fuse SB, in E-box low**
From May 2005

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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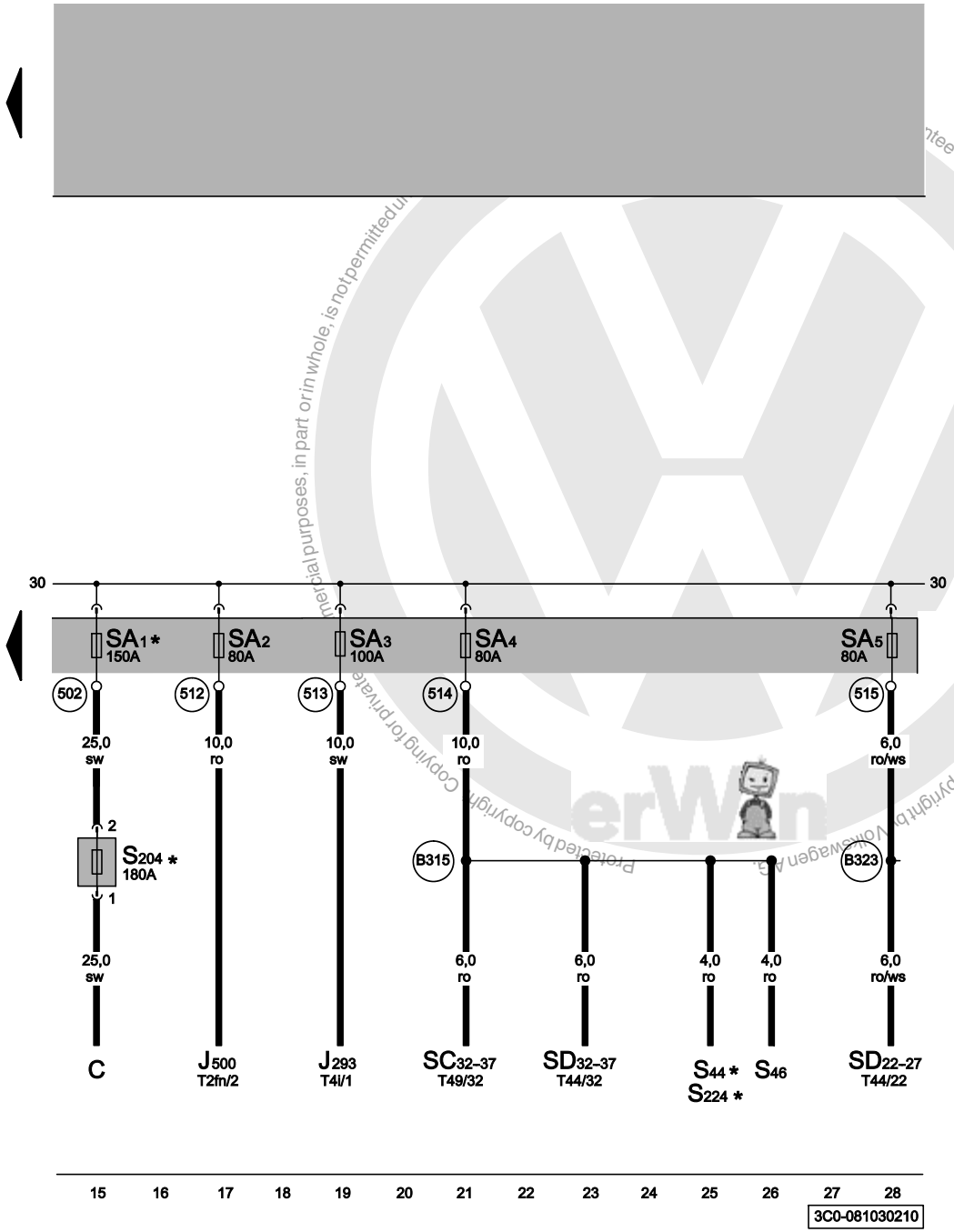


Battery, SA-fuses

A	Battery
J104	ABS control unit
SA6	Fuse 6 on fuse holder A
SA8	Fuse 8 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
SD28	Fuse on fuse holder D
T38	38-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
12	Earth point, on left in engine compartment
507	Threaded connection (30), on battery fuse holder
516	Threaded connection 6 (30a) on relay plate
517	Threaded connection 7 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
*	Only models with engine codes AXZ, BLV

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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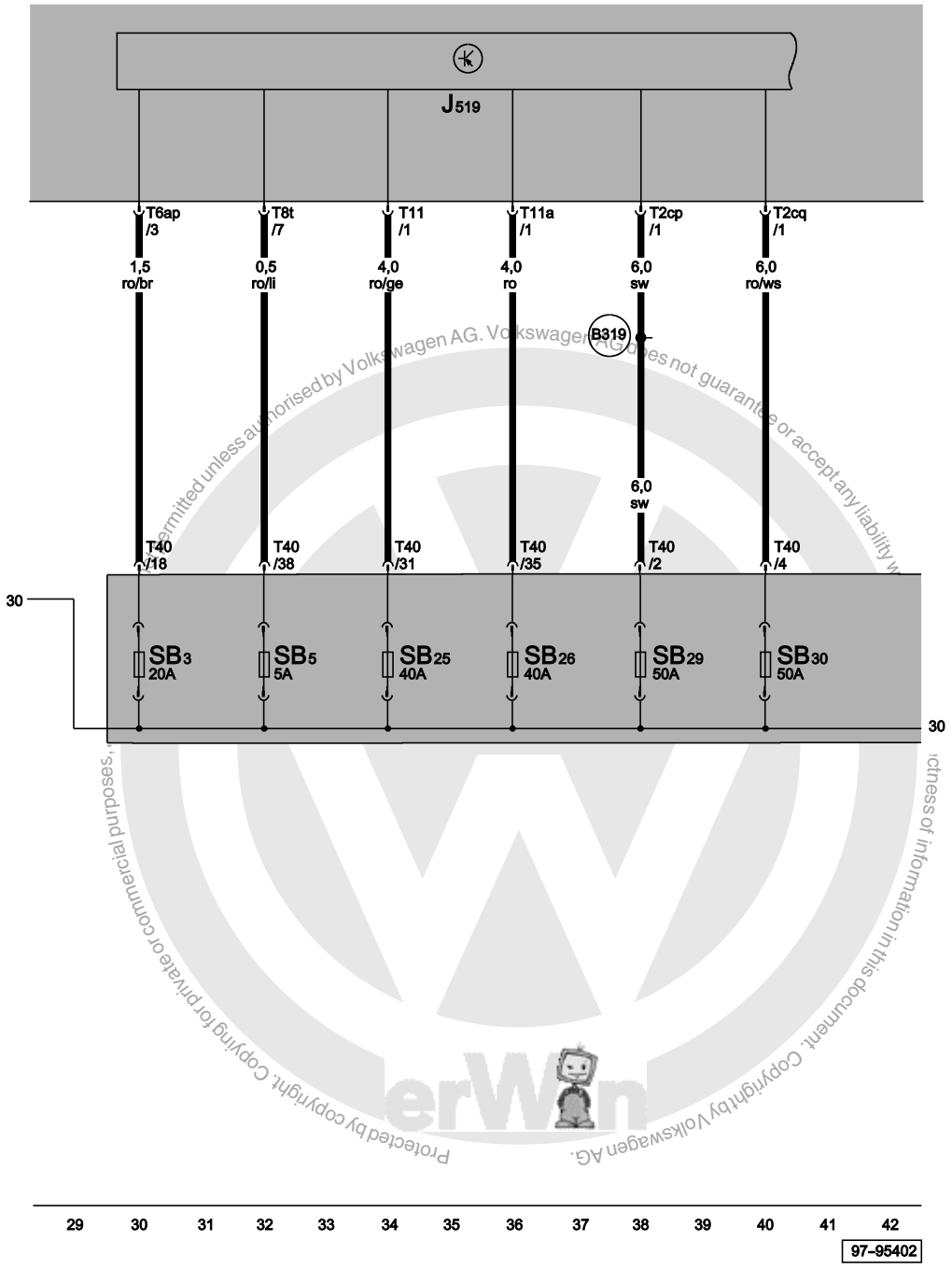


ws = white
sw = black
ro = red
br = brown
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gr = grey
li = purple
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SA fuses

C	Alternator
J293	Radiator fan control unit
J500	Power steering control unit
S44	Driver seat adjustment thermal fuse 1, on left under dash panel
S46	Front passenger seat adjustment thermal fuse 1
S204	Fuse 1 (30)
S224	Fuse in fuse holder on left under dash panel
SA1	Fuse 1 on fuse holder A
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T2fn	2-pin connector
T4i	4-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
502	Threaded connection 1 (30a) on relay plate
512	Threaded connection 2 (30a) on relay plate
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
515	Threaded connection 5 (30a) on relay plate
B315	Connection 1 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness
*	Depends on equipment

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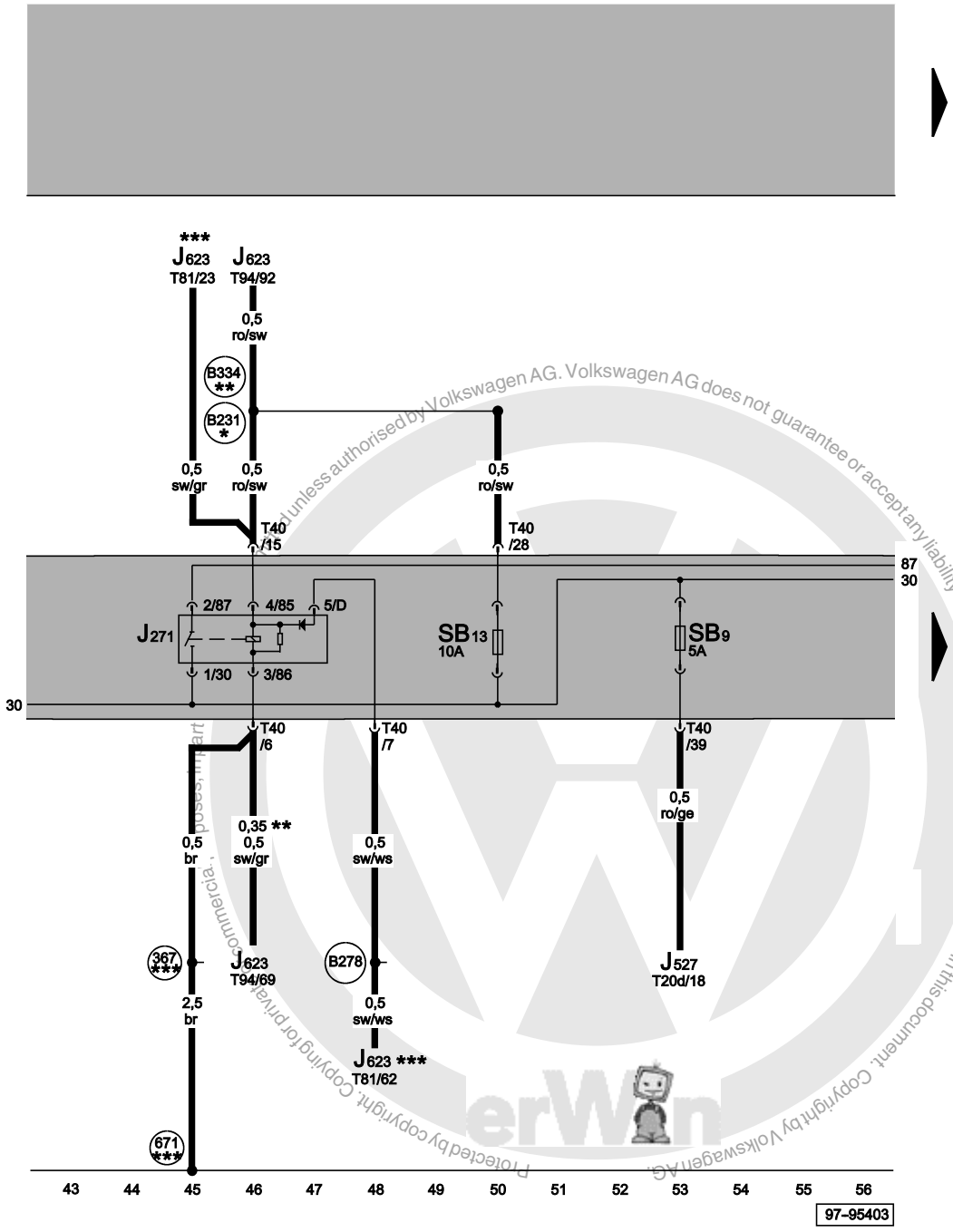


Onboard supply control unit, SB-fuses

J519	Onboard supply control unit
SB3	Fuse 3 on fuse holder B
SB5	Fuse 5 on fuse holder B
SB25	Fuse 25 on fuse holder B
SB26	Fuse 26 on fuse holder B
SB29	Fuse 29 on fuse holder B
SB30	Fuse 30 on fuse holder B
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T6ap	6-pin connector, black
T8t	8-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T40	40-pin connector, under E-box, in engine compartment
B319	Connection 5 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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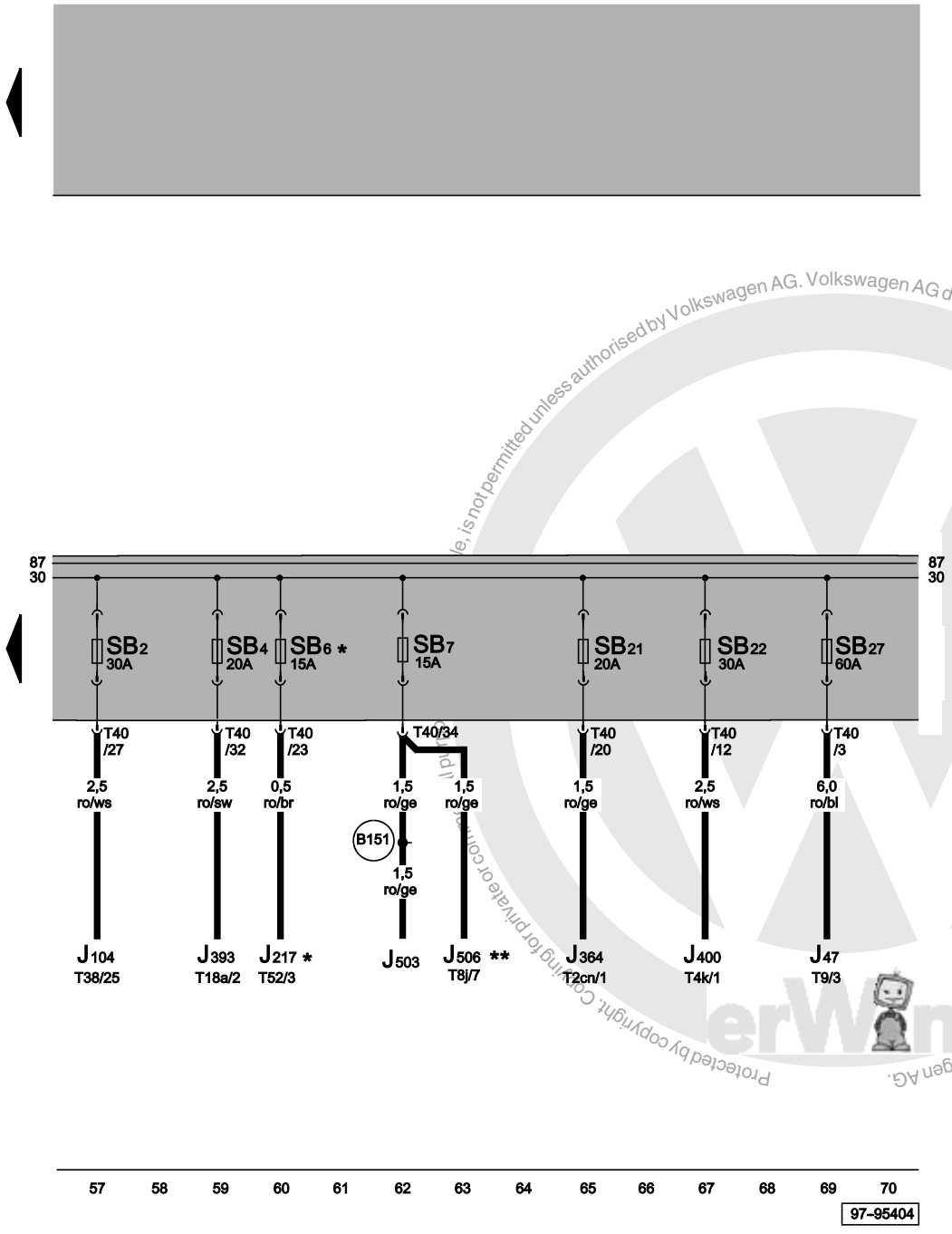


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Motronic current supply relay, SB-fuses

J271	Motronic current supply relay
J527	Steering column electronics control unit
J623	Engine control unit
SB9	Fuse 9 on fuse holder B
SB13	Fuse 13 on fuse holder B
T20d	20-pin connector
T40	40-pin connector, under E-box, in engine compartment
T81	81-pin connector
T94	94-pin connector
367	Earth connection 2, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B231	Positive connection 5 (30a), in interior wiring harness
B278	Connection 2 (15a), in main wiring harness
B334	Connection 20 (30a), in main wiring harness
*	Only models with engine codes BLF, BLP
**	Only models with engine codes BLR, BLX, BLY
***	Only models with engine codes BSE, BSF

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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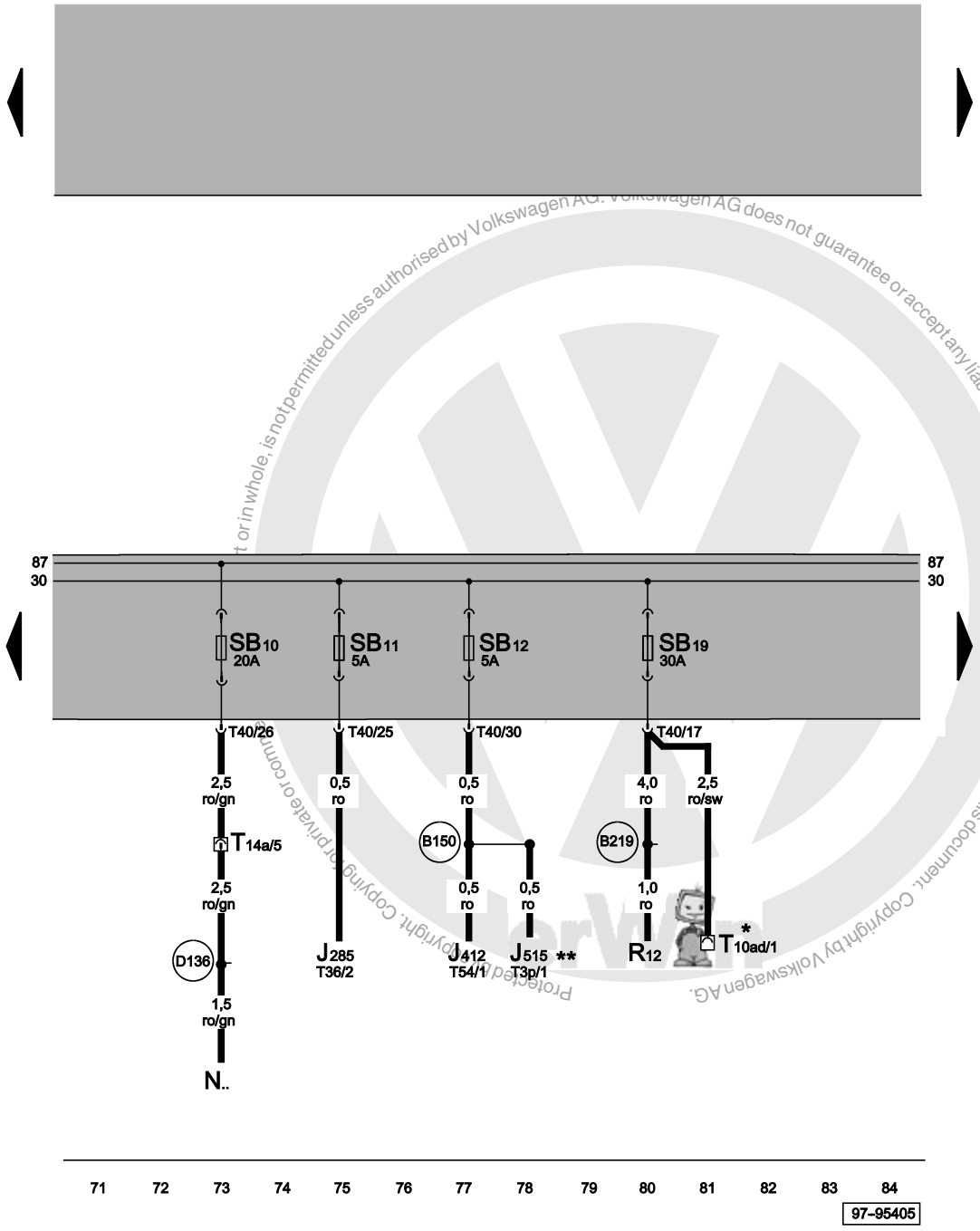
SB fuses

J47	Heated windscreen relay
J104	ABS control unit
J217	Automatic gearbox control unit
J364	Auxiliary heater control unit
J393	Convenience system central control unit
J400	Wiper motor control unit
J503	Control unit with display for radio and navigation
J506	Control unit with display for TV, radio, navigation system
SB2	Fuse 2 on fuse holder B
SB4	Fuse 4 on fuse holder B
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB21	Fuse 21 on fuse holder B
SB22	Fuse 22 on fuse holder B
SB27	Fuse 27 on fuse holder B
T2cn	2-pin connector
T4k	4-pin connector
T8j	8-pin connector
T9	9-pin connector
T18a	18-pin connector
T38	38-pin connector
T40	40-pin connector, under E-box, in engine compartment
T52	52-pin connector
B151	Positive connection 3 (30a), in interior wiring harness

* Only models with engine codes BLF, BLP, BLR, BLX, BLY
** Only models with radio and navigation system and TV

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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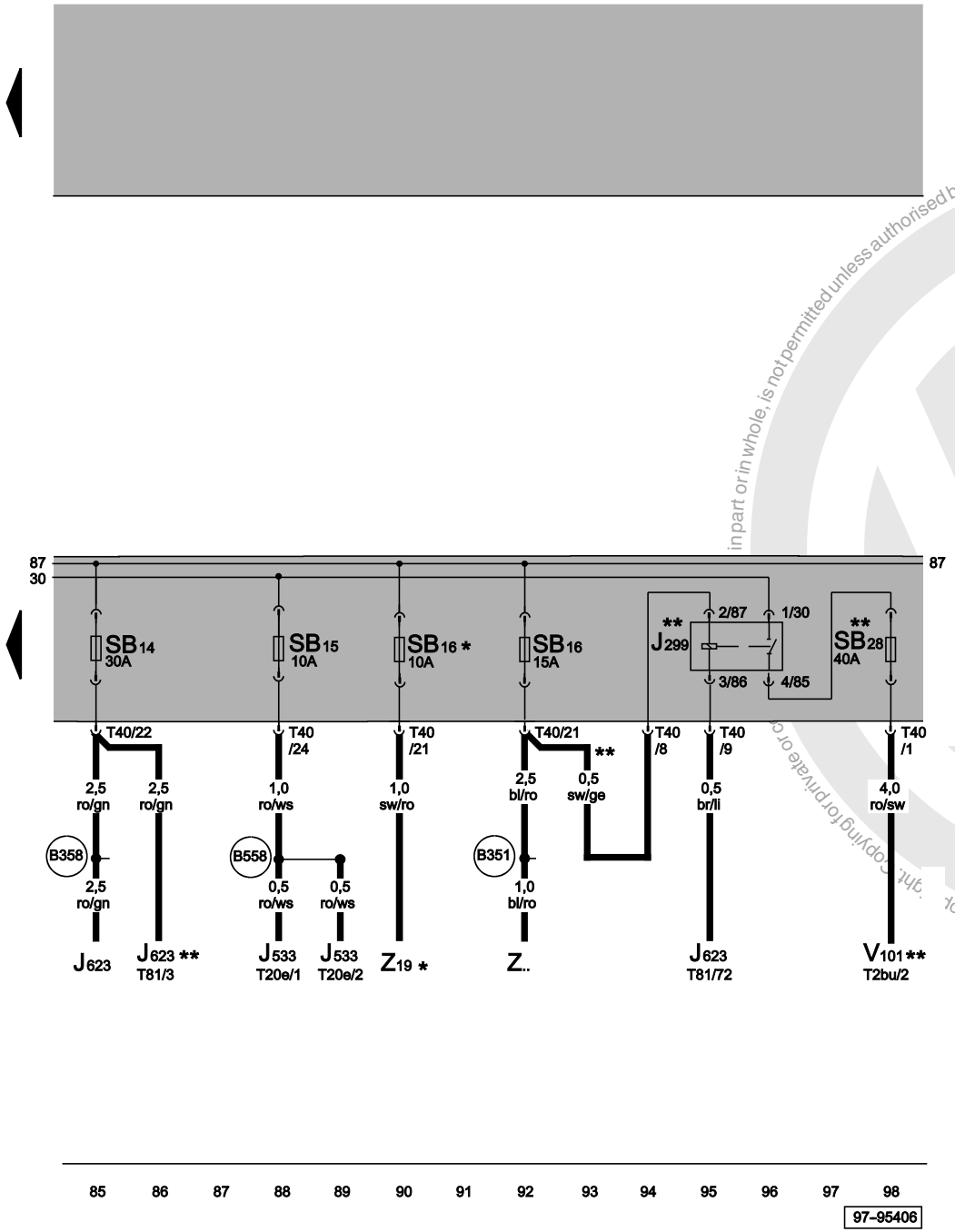


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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or = orange
rs = pink

SB fuses

J285	Control unit in dash panel insert
J412	Control unit for mobile telephone operating electronics
J515	Aerial selection control unit
N	Ignition coils with final output stages for cylinders 1-4
R12	Amplifier
SB10	Fuse 10 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB12	Fuse 12 on fuse holder B
SB19	Fuse 19 on fuse holder B
T3p	3-pin connector
T10ad	10-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T36	36-pin connector
T40	40-pin connector, under E-box, in engine compartment
T54	54-pin connector
B150	Positive connection 2 (30a), in interior wiring harness
B219	Positive connection 4 (30a), in interior wiring harness
D136	Positive connection 2 (15a), in engine compartment wiring harness
*	wire for special installation
**	Only models with radio and navigation system RNS MFD2

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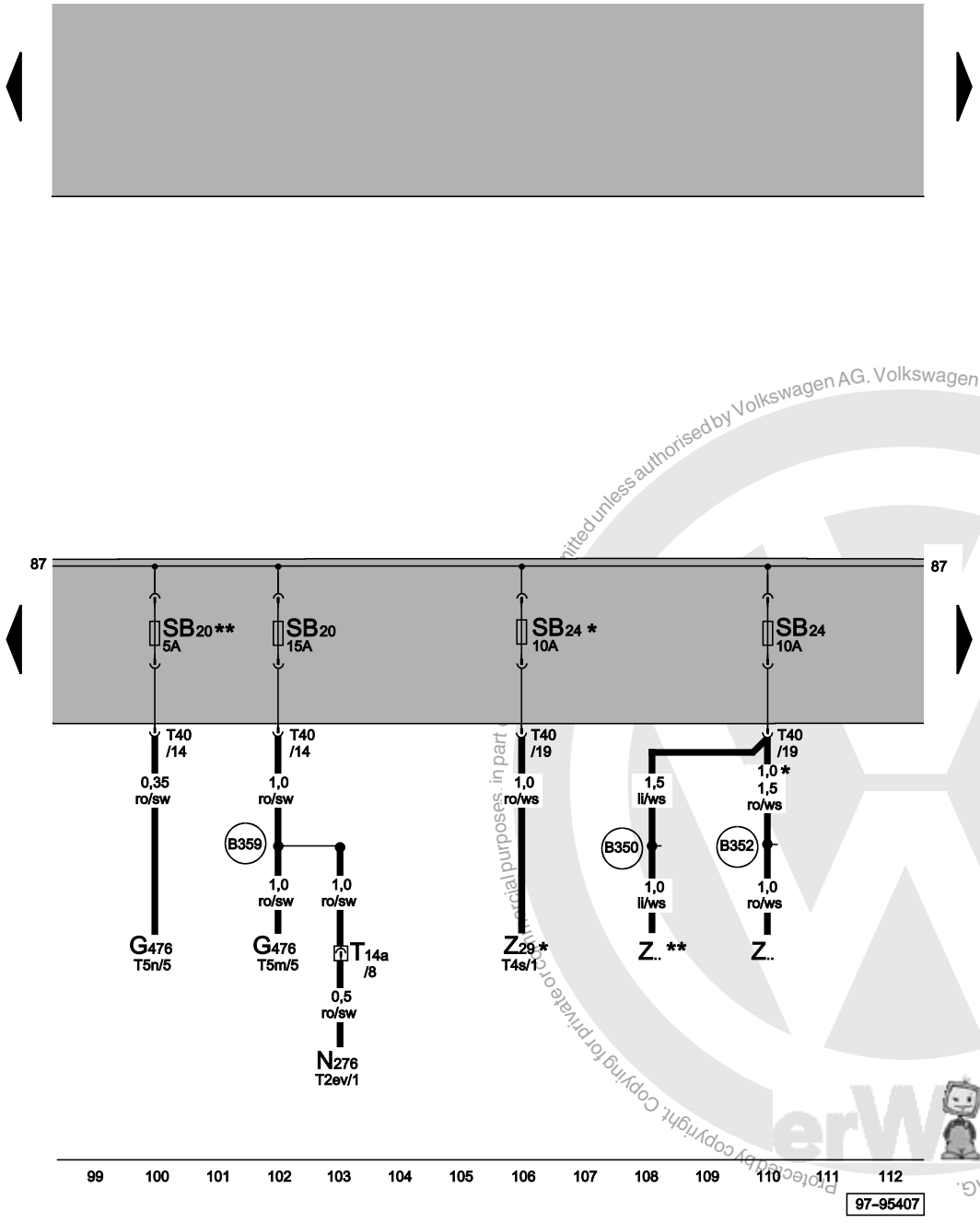


Secondary air pump relay, SB-fuses

J299	Secondary air pump relay
J533	Data bus diagnosis interface
J623	Engine control unit
SB14	Fuse 14 on fuse holder B
SB15	Fuse 15 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB28	Fuse 28 on fuse holder B
T2bu	2-pin connector
T20e	20-pin connector
T40	40-pin connector, under E-box, in engine compartment
T81	81-pin connector
V101	Secondary air pump motor
Z	Lambda probe heater
Z19	Lambda probe heater
B351	Connection 2 (87a), in main wiring harness
B358	Connection 9 (87a), in main wiring harness
B558	Connection 22 (30a), in main wiring harness
*	Only models with engine code BLY
**	Only models with engine codes BSE, BSF

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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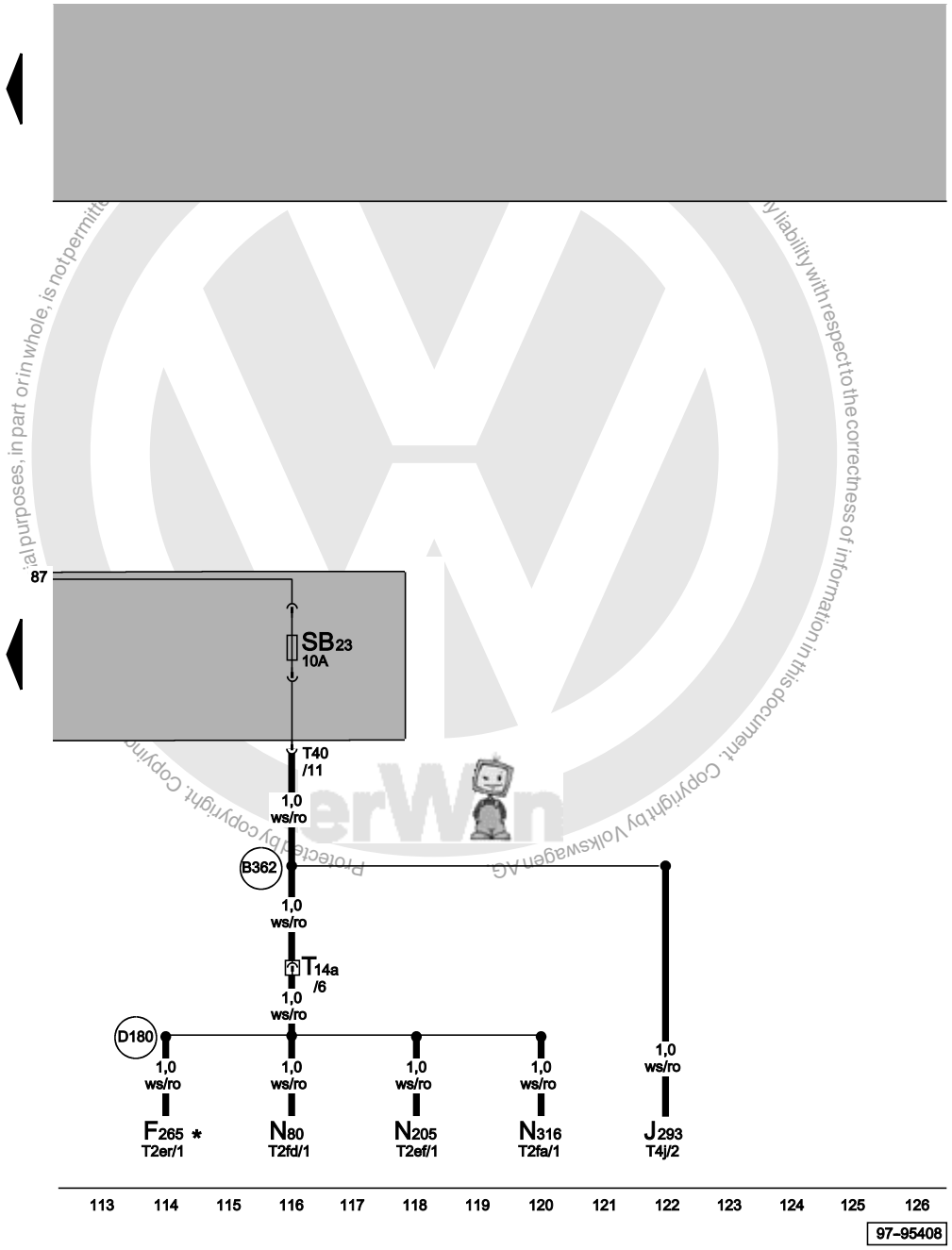


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

SB fuses

G476	Clutch position sender
N276	Fuel pressure regulating valve
SB20	Fuse 20 on fuse holder B
SB24	Fuse 24 on fuse holder B
T2ev	2-pin connector
T4s	4-pin connector
T5m	5-pin connector
T5n	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T40	40-pin connector, under E-box, in engine compartment
Z	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
B350	Connection 1 (87a), in main wiring harness
B352	Connection 3 (87a), in main wiring harness
B359	Connection 10 (87a), in main wiring harness
*	Only models with engine code BLY
**	Only models with engine codes BSE, BSF

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SB fuses

F265	Map-controlled engine cooling system thermostat
J293	Radiator fan control unit
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N316	Intake manifold flap valve
SB23	Fuse 23 on fuse holder B
T2ef	2-pin connector
T2er	2-pin connector
T2fa	2-pin connector
T2fd	2-pin connector
T4j	4-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T40	40-pin connector, under E-box, in engine compartment
B362	Connection 13 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness
*	Only models with engine codes BLR, BLX, BLY

ws	=	white
sw	=	black
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Fuse concept, 1 battery, diesel engine

⇒ **Fuse SA, in E-box low**
⇒ **Fuse SB, in E-box low**
From May 2005

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

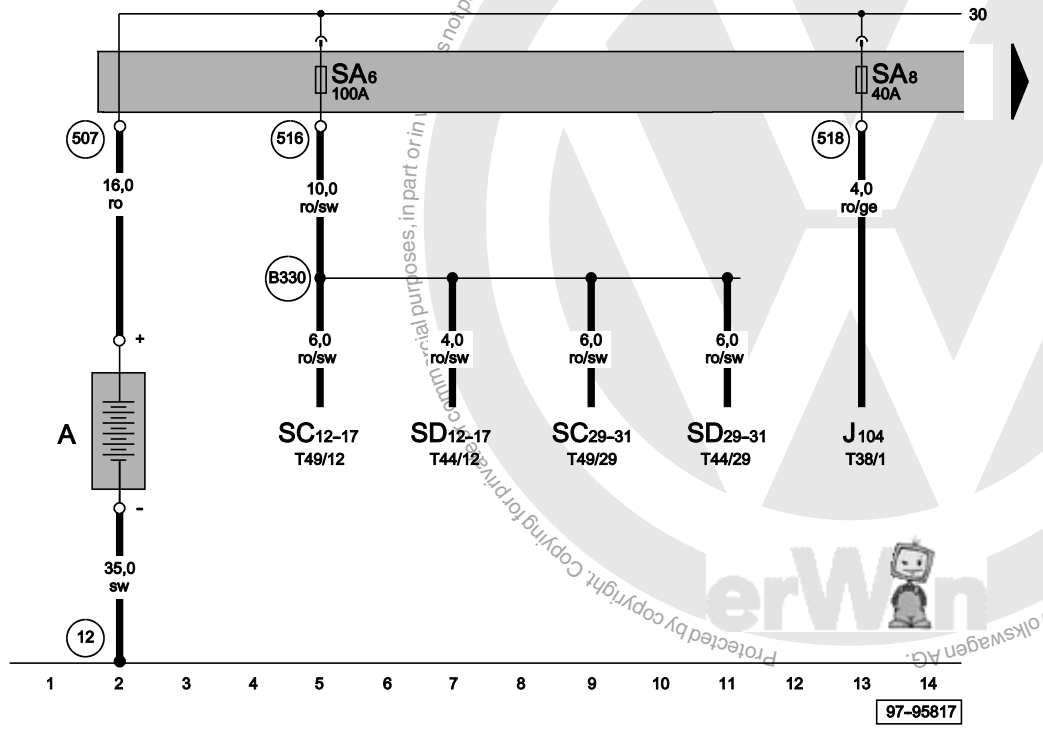
⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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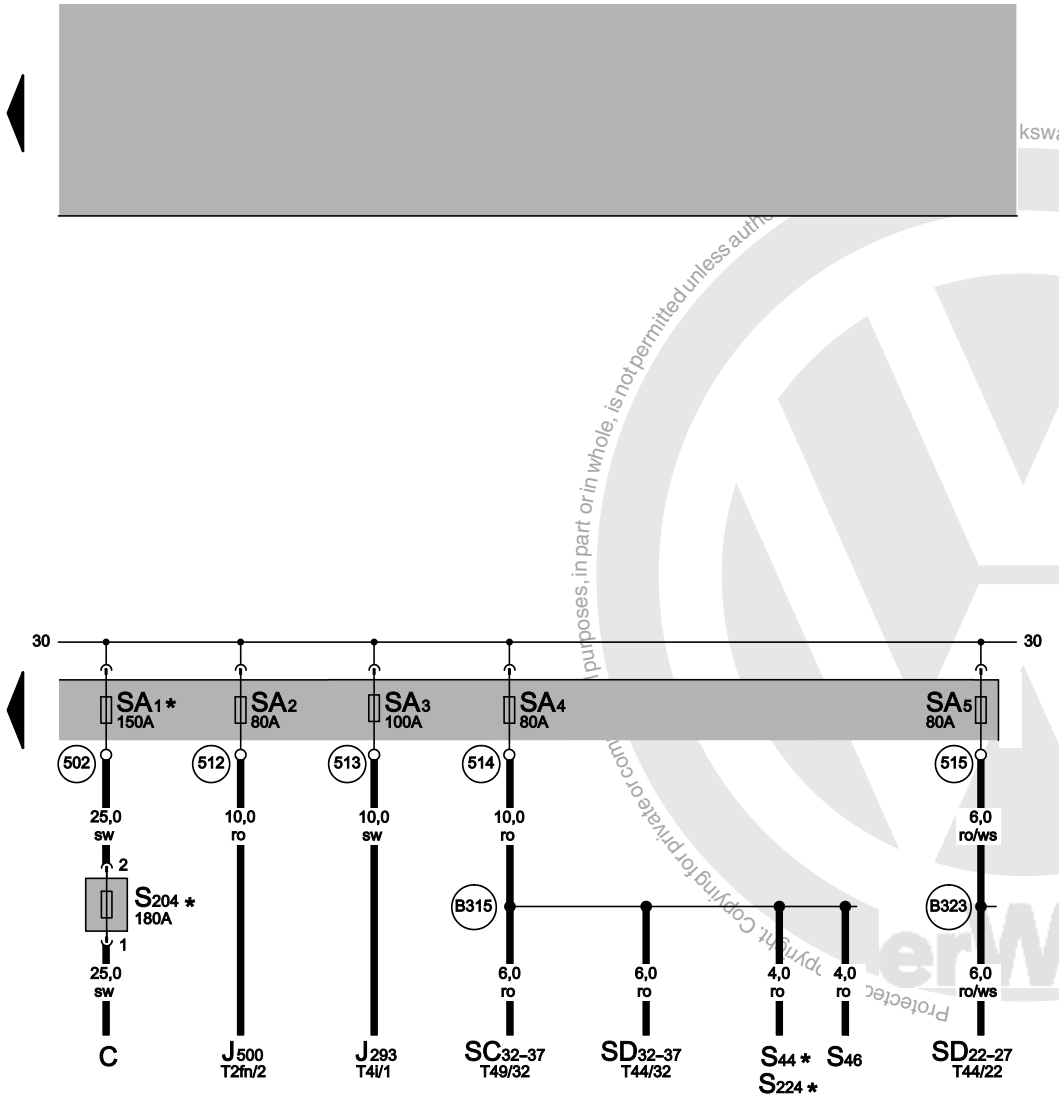
Battery, SA-fuses

A	Battery
J104	ABS control unit
SA6	Fuse 6 on fuse holder A
SA8	Fuse 8 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T38	38-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
12	Earth point, on left in engine compartment
507	Threaded connection (30), on battery fuse holder
516	Threaded connection 6 (30a) on relay plate
517	Threaded connection 7 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness



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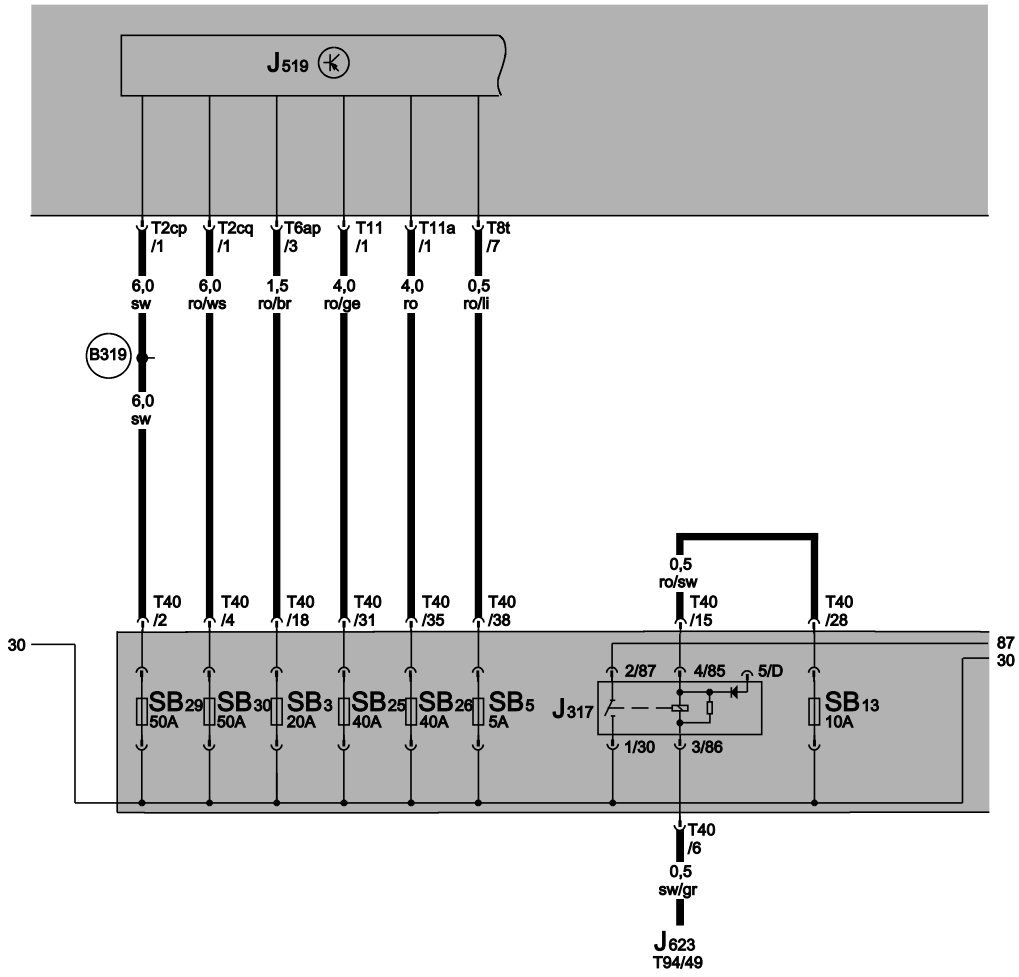


SA fuses

C	Alternator
J293	Radiator fan control unit
J500	Power steering control unit
S44	Driver seat adjustment thermal fuse 1
S46	Front passenger seat adjustment thermal fuse 1
S204	Fuse 1 (30)
S224	Fuse in fuse holder on left under dash panel
SA1	Fuse 1 on fuse holder A
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T2fn	2-pin connector
T4i	4-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
502	Threaded connection 1 (30a) on relay plate
512	Threaded connection 2 (30a) on relay plate
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
515	Threaded connection 5 (30a) on relay plate
B315	Connection 1 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness
*	Depends on equipment

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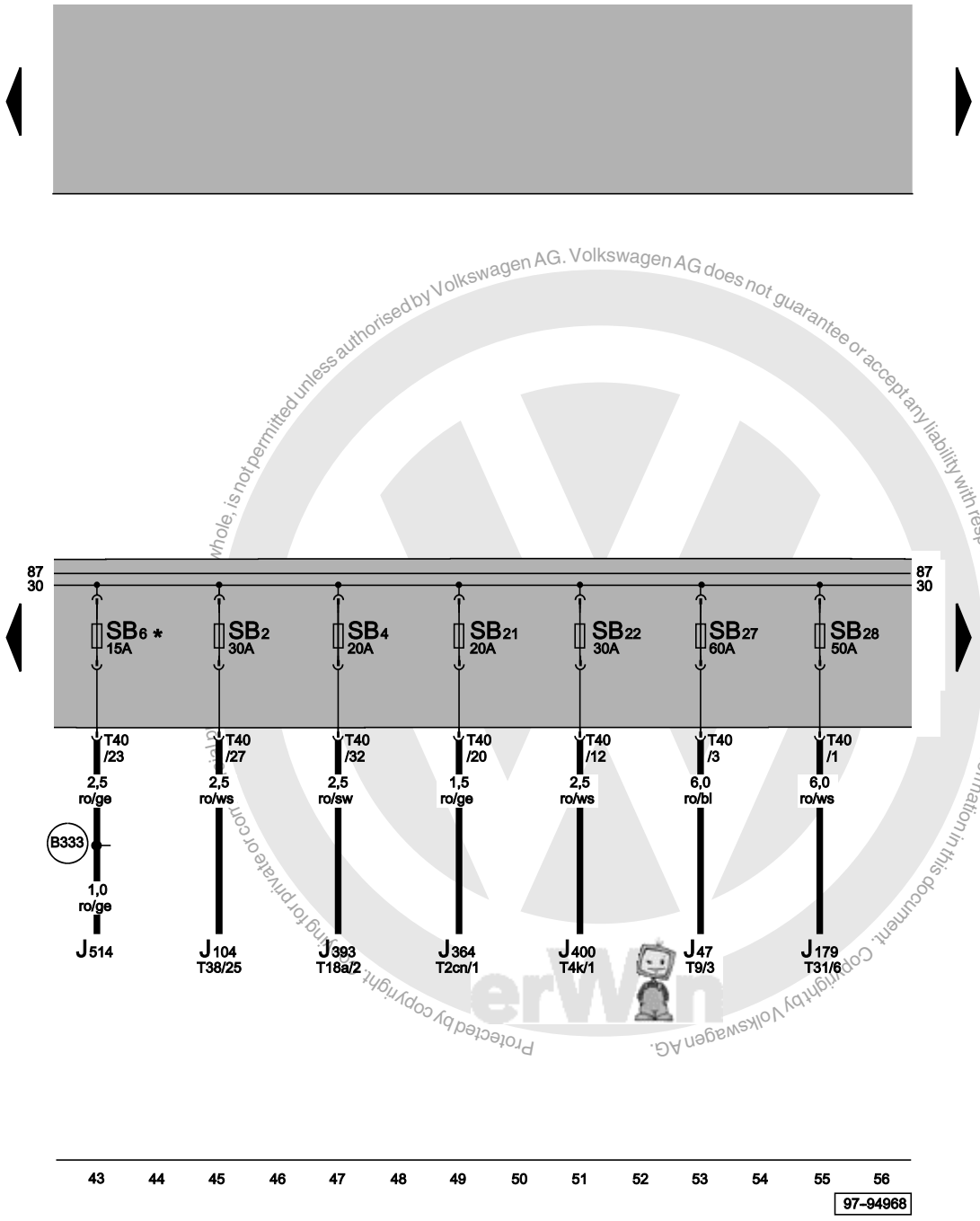


Terminal 30 voltage supply relay, onboard supply control unit

J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
J623	Engine control unit
SB3	Fuse 3 on fuse holder B
SB5	Fuse 5 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB25	Fuse 25 on fuse holder B
SB26	Fuse 26 on fuse holder B
SB29	Fuse 29 on fuse holder B
SB30	Fuse 30 on fuse holder B
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T6ap	6-pin connector, black
T8t	8-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T40	40-pin connector, under E-box, in engine compartment
T94	94-pin connector
B319	Connection 5 (30a), in main wiring harness

ws	=	white
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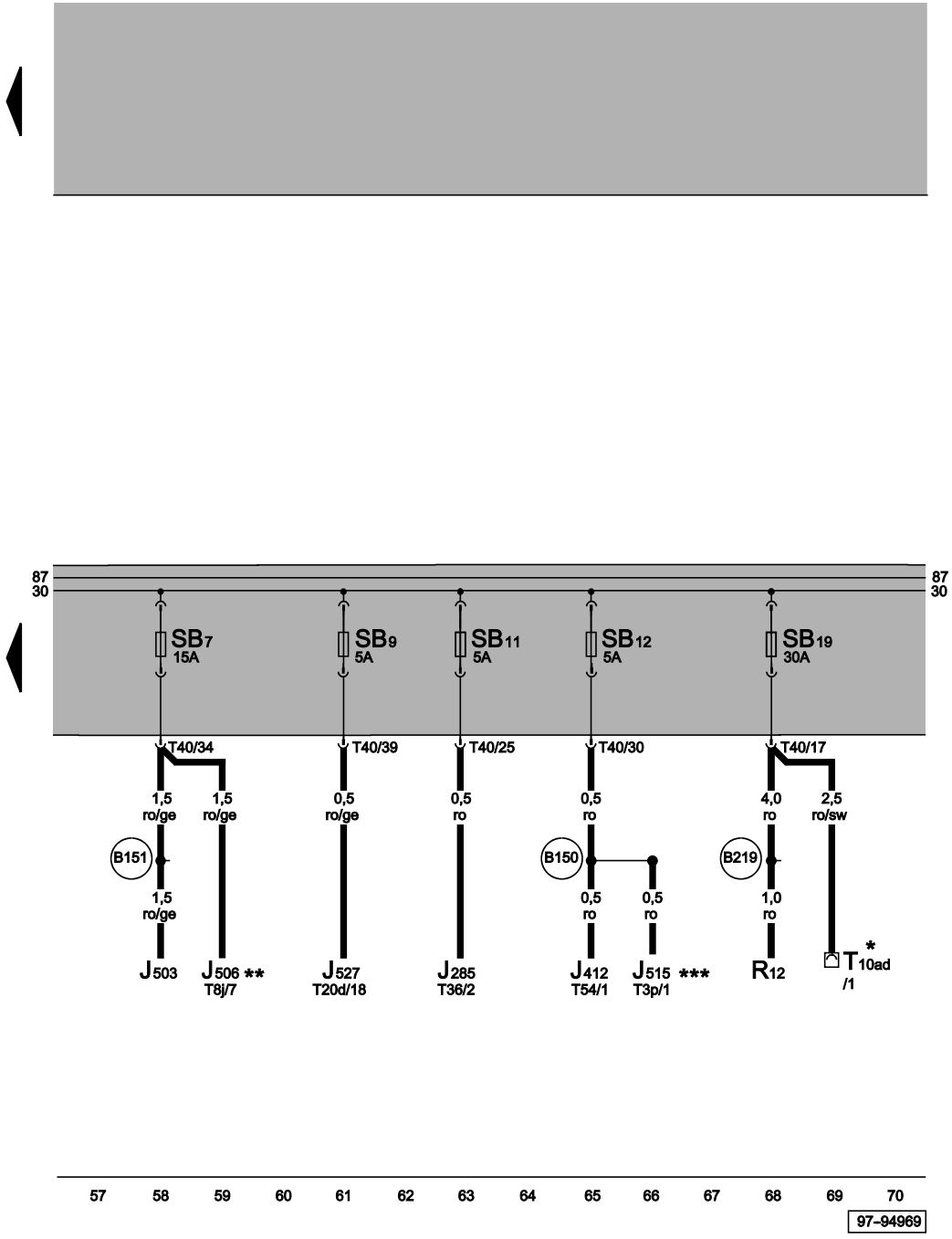


SB fuses

J47	Heated windscreen relay
J104	ABS control unit
J179	Automatic glow period control unit
J364	Auxiliary heater control unit
J393	Convenience system central control unit
J400	Wiper motor control unit
J514	Electronic manual gearbox control unit
SB2	Fuse 2 on fuse holder B
SB4	Fuse 4 on fuse holder B
SB6	Fuse 6 on fuse holder B
SB21	Fuse 21 on fuse holder B
SB22	Fuse 22 on fuse holder B
SB27	Fuse 27 on fuse holder B
SB28	Fuse 28 on fuse holder B
T2cn	2-pin connector
T4k	4-pin connector
T9	9-pin connector
T18a	18-pin connector
T31	31-pin connector
T38	38-pin connector
T40	40-pin connector, under E-box, in engine compartment
B333	Connection 19 (30a), in main wiring harness
*	Only models with engine codes BMP, BMR, BKP, BMA, BVE

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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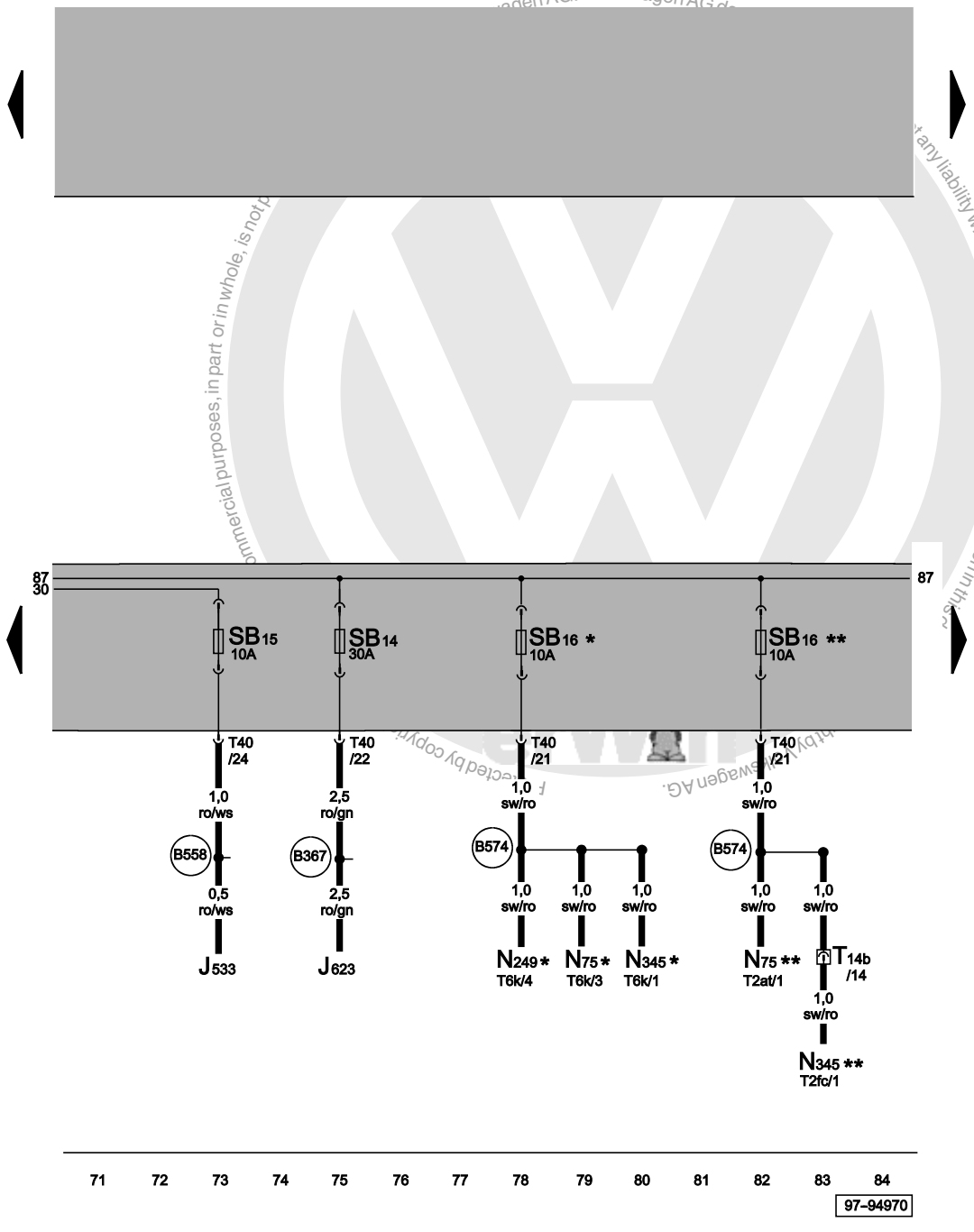


SB fuses

J285	Control unit in dash panel insert
J412	Control unit for mobile telephone operating electronics
J503	Control unit with display for radio and navigation
J506	Control unit with display for TV, radio, navigation system
J515	Aerial selection control unit
J527	Steering column electronics control unit
R12	Amplifier
SB7	Fuse 7 on fuse holder B
SB9	Fuse 9 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB12	Fuse 12 on fuse holder B
SB19	Fuse 19 on fuse holder B
T3p	3-pin connector
T8j	8-pin connector
T10ad	10-pin connector
T10ad	10-pin connector
T20d	20-pin connector
T36	36-pin connector
T40	40-pin connector, under E-box, in engine compartment
T54	54-pin connector
B150	Positive connection 2 (30a), in interior wiring harness
B151	Positive connection 3 (30a), in interior wiring harness
B219	Positive connection 4 (30a), in interior wiring harness
*	wire for special installation
**	Only models with radio and TV
***	Only models with radio and navigation system RNS MFD2

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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rs	=	pink

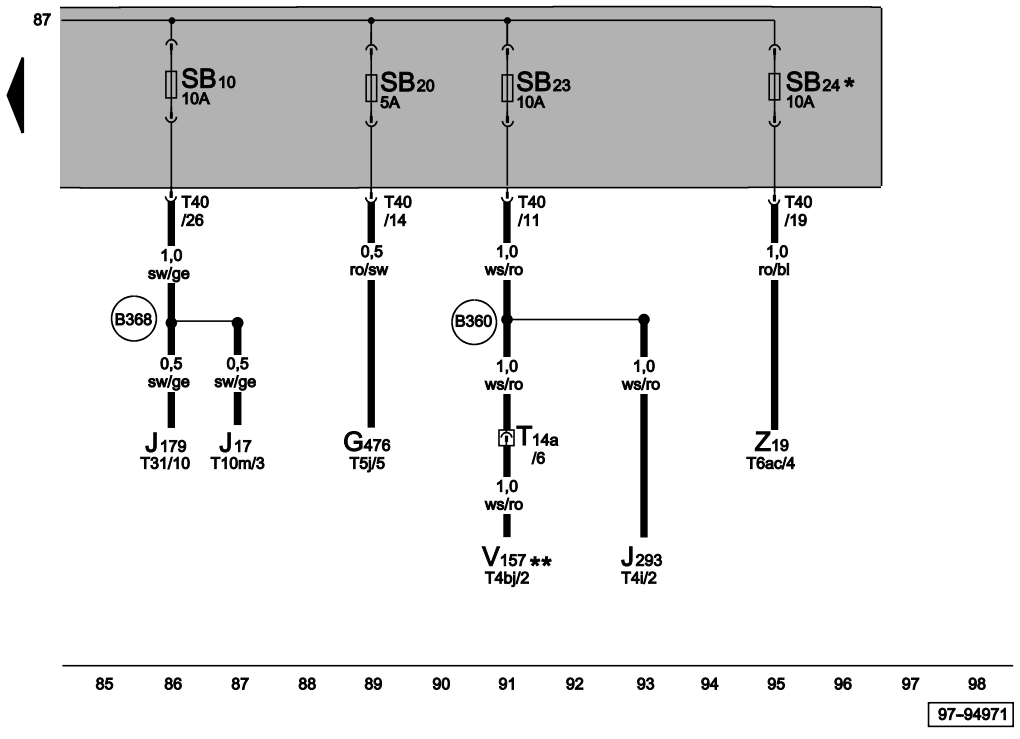
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SB fuses

J533	Data bus diagnosis interface
J623	Engine control unit
N75	Charge pressure control solenoid valve
N249	Turbocharger air recirculation valve
N345	Exhaust gas recirculation cooler changeover valve
SB14	Fuse 14 on fuse holder B
SB15	Fuse 15 on fuse holder B
SB16	Fuse 16 on fuse holder B
T2at	2-pin connector
T2fc	2-pin connector
T6k	6-pin connector
T14b	14-pin connector, coupling point 2 on left in engine compartment
T40	40-pin connector, under E-box, in engine compartment
B367	Connection 18 (87a), in main wiring harness
B558	Connection 22 (30a), in main wiring harness
B574	Connection 20 (87a), in main wiring harness
*	Only models with engine codes BKC, BKP, BMA, BVE
**	Only models with engine codes BMP, BLS, BMR

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



SB fuses

G476	Clutch position sender
J17	Fuel pump relay
J179	Automatic glow period control unit
J293	Radiator fan control unit
SB10	Fuse 10 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
T4i	4-pin connector
T4j	4-pin connector
T5j	5-pin connector
T6ac	6-pin connector, coupling point for Lambda probe
T10m	10-pin connector, on E-box
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40	40-pin connector, under E-box, in engine compartment
T31	31-pin connector
V157	Intake manifold flap motor
Z19	Lambda probe heater
B360	Connection 11 (87a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
*	Only models with engine codes BLS, BMP, BMR
**	Only models with engine codes BKC, BMA, BKP, BVE

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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Fuse concept, 1 battery, petrol engine

⇒ **Fuse SA, in E-box high**
⇒ **Fuse SB, in E-box high**
From May 2005

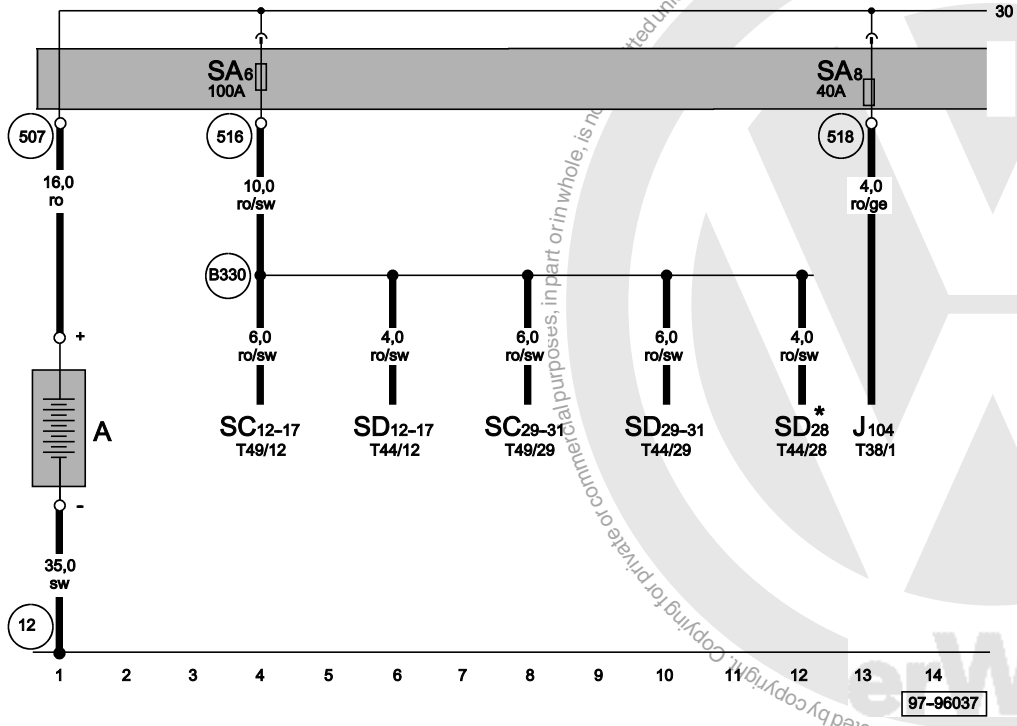
Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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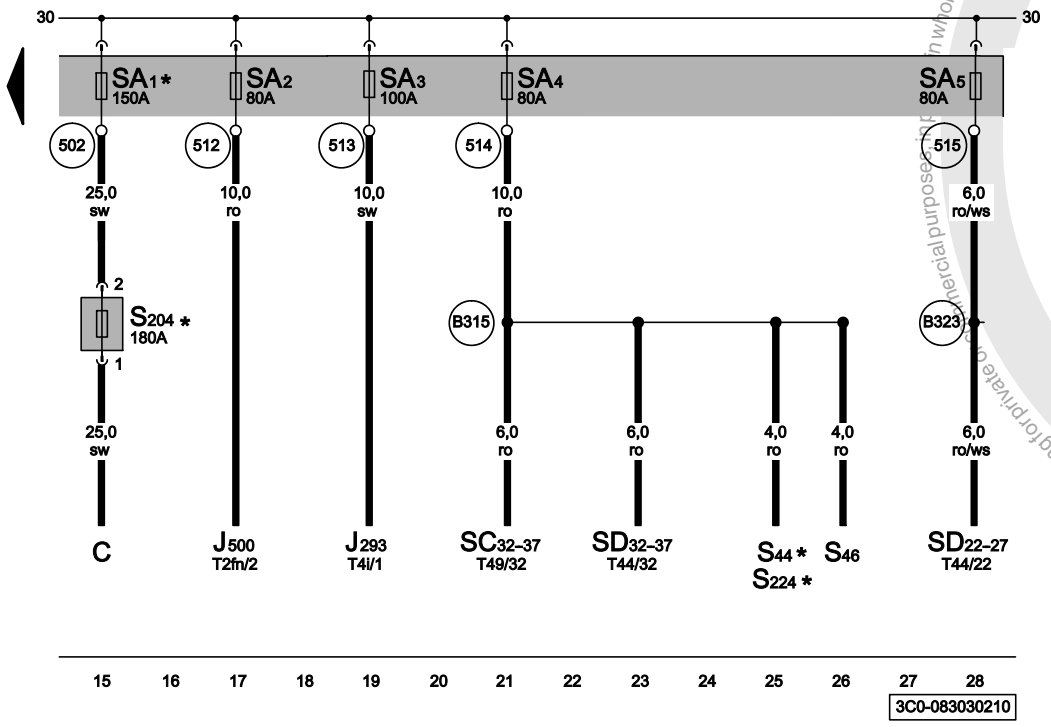


Battery, SA-fuses

A	Battery
J104	ABS control unit
SA6	Fuse 6 on fuse holder A
SA7	Fuse 7 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
SD28	Fuse 28 on fuse holder D
T38	38-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
(12)	Earth point, on left in engine compartment
(507)	Threaded connection (30), on battery fuse holder
(516)	Threaded connection 6 (30a) on relay plate
(517)	Threaded connection 7 (30a) on relay plate
(B330)	Connection 16 (30a), in main wiring harness
*	Only models with engine codes AXZ, BLV

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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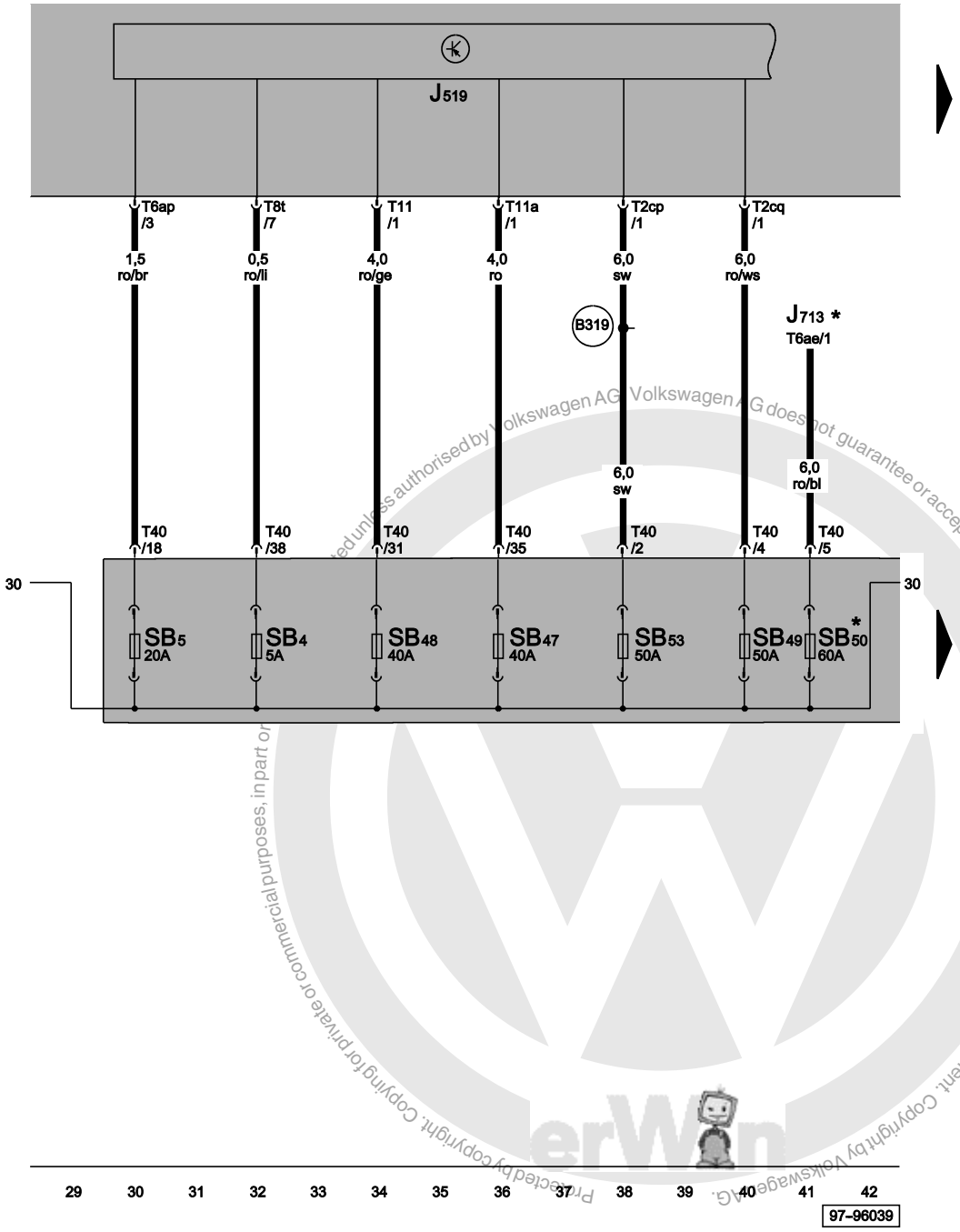


SA fuses

C	Alternator
J293	Radiator fan control unit
J500	Power steering control unit
S44	Driver seat adjustment thermal fuse 1, on left under dash panel
S46	Front passenger seat adjustment thermal fuse 1
S204	Fuse 1 (30)
S224	Fuse in fuse holder on left under dash panel
SA1	Fuse 1 on fuse holder A
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T2fn	2-pin connector
T4i	4-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
502	Threaded connection 1 (30a) on relay plate
512	Threaded connection 2 (30a) on relay plate
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
515	Threaded connection 5 (30a) on relay plate
B315	Connection 1 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness
*	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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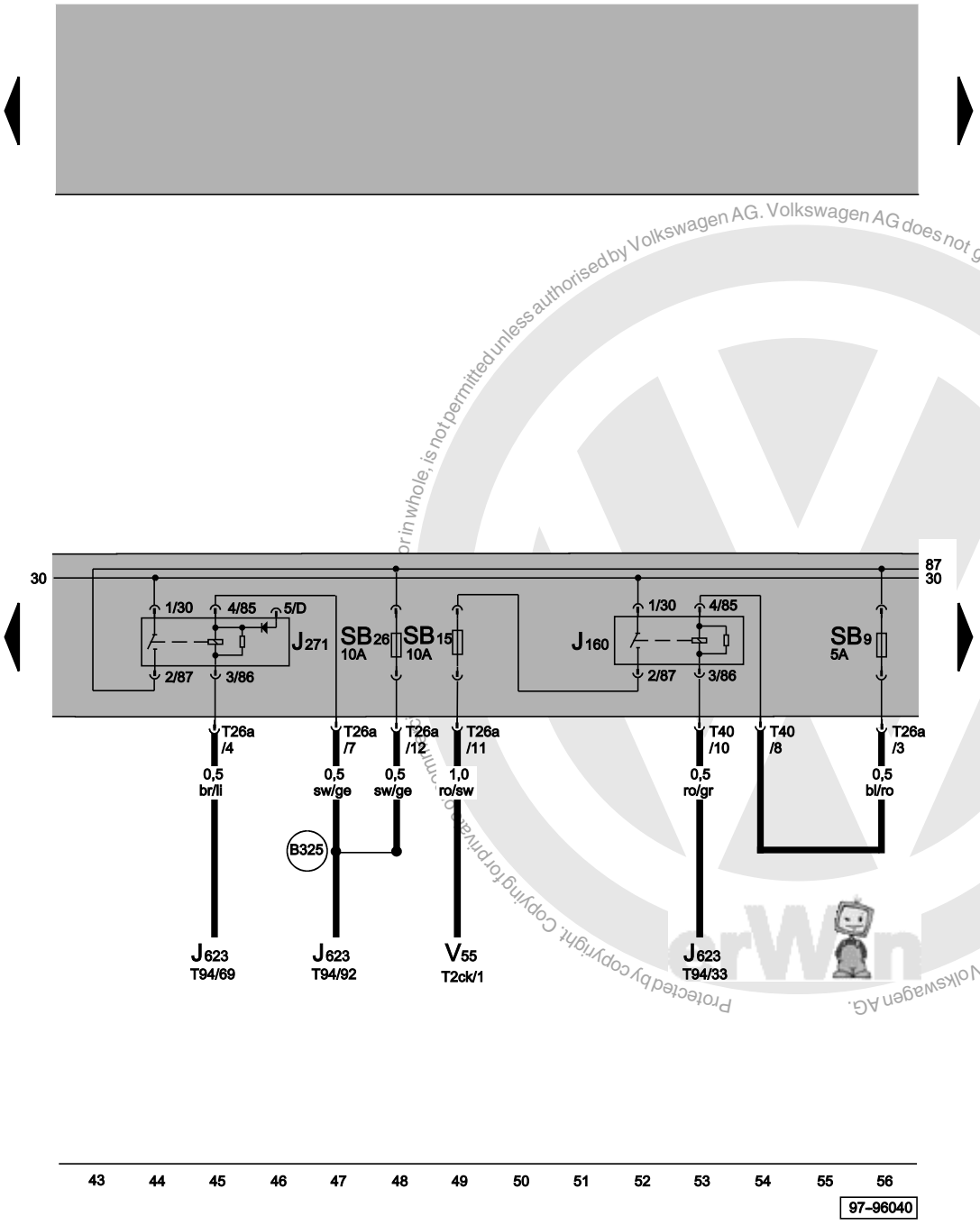


Onboard supply control unit, SB-fuses

J519	Onboard supply control unit
J713	Second battery charging circuit relay
SB4	Fuse 4 on fuse holder B
SB5	Fuse 5 on fuse holder B
SB47	Fuse 47 on fuse holder B
SB48	Fuse 48 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB50	Fuse 50 on fuse holder B
SB53	Fuse 53 on fuse holder B
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T6ae	6-pin connector
T6ap	6-pin connector, black
T8t	8-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T40	40-pin connector, under E-box, in engine compartment
B319	Connection 5 (30a), in main wiring harness
*	Only models with auxiliary heater

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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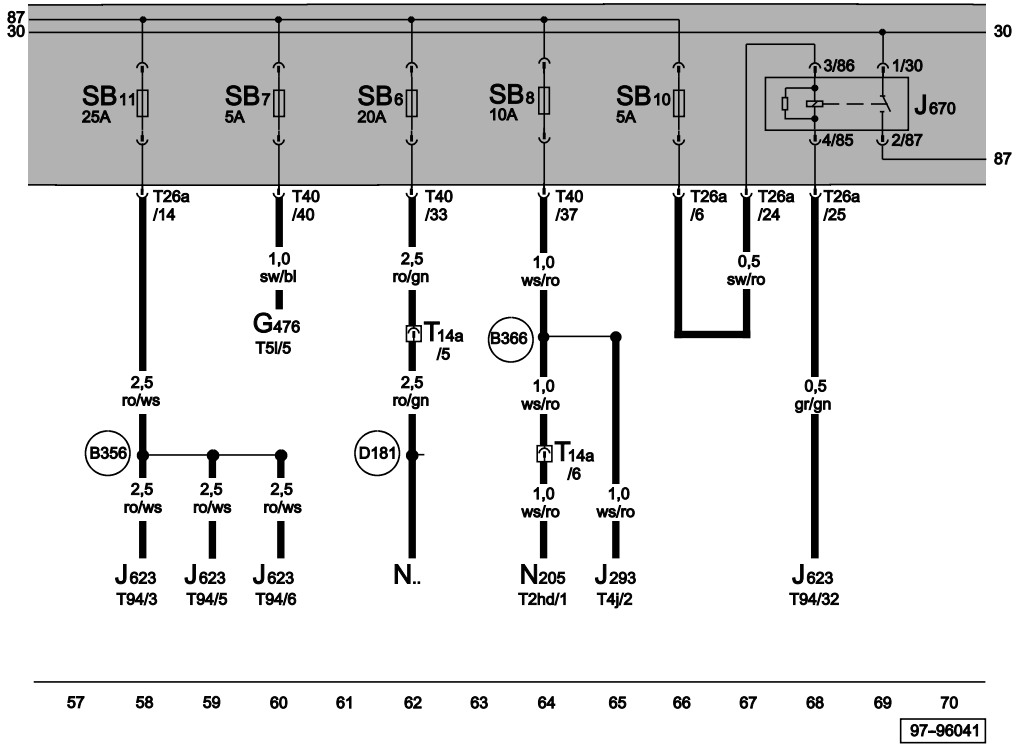


Motronic current supply relay, circulation pump relay, SB-fuse

J160	Circulation pump relay
J271	Motronic current supply relay
J623	Engine control unit
SB9	Fuse 9 on fuse holder B
SB15	Fuse 15 on fuse holder B
SB26	Fuse 26 on fuse holder B
T2ck	2-pin connector
T26a	26-pin connector, on E-box, in engine compartment
T40	40-pin connector, under E-box, in engine compartment
T94	94-pin connector
V55	Circulation pump
B325	Connection 11 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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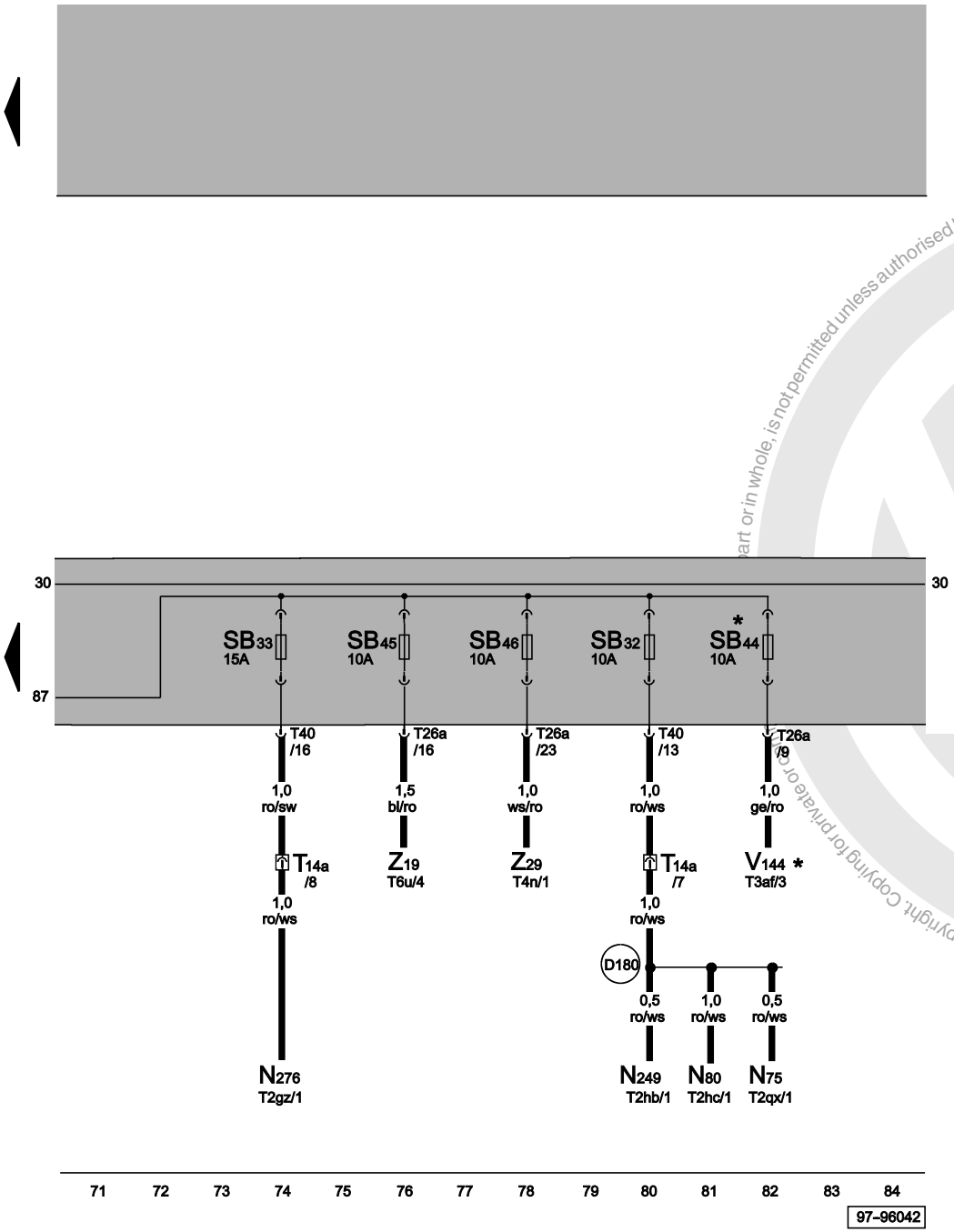


SB Fuses, Motronic current supply relay 2

G476	Clutch position sender
J293	Radiator fan control unit
J623	Engine control unit
J670	Motronic current supply relay 2
N	Ignition coils with final output stages for cylinders 1-4
N205	Camshaft control valve 1
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB8	Fuse 8 on fuse holder B
SB10	Fuse 10 on fuse holder B
SB11	Fuse 11 on fuse holder B
T2hd	2-pin connector
T4j	4-pin connector
T5l	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector, on E-box, in engine compartment
T40	40-pin connector, under E-box, in engine compartment
T94	94-pin connector
B356	Connection 7 (87a), in main wiring harness
B366	Connection 17 (87a), in main wiring harness
D181	Connection 2 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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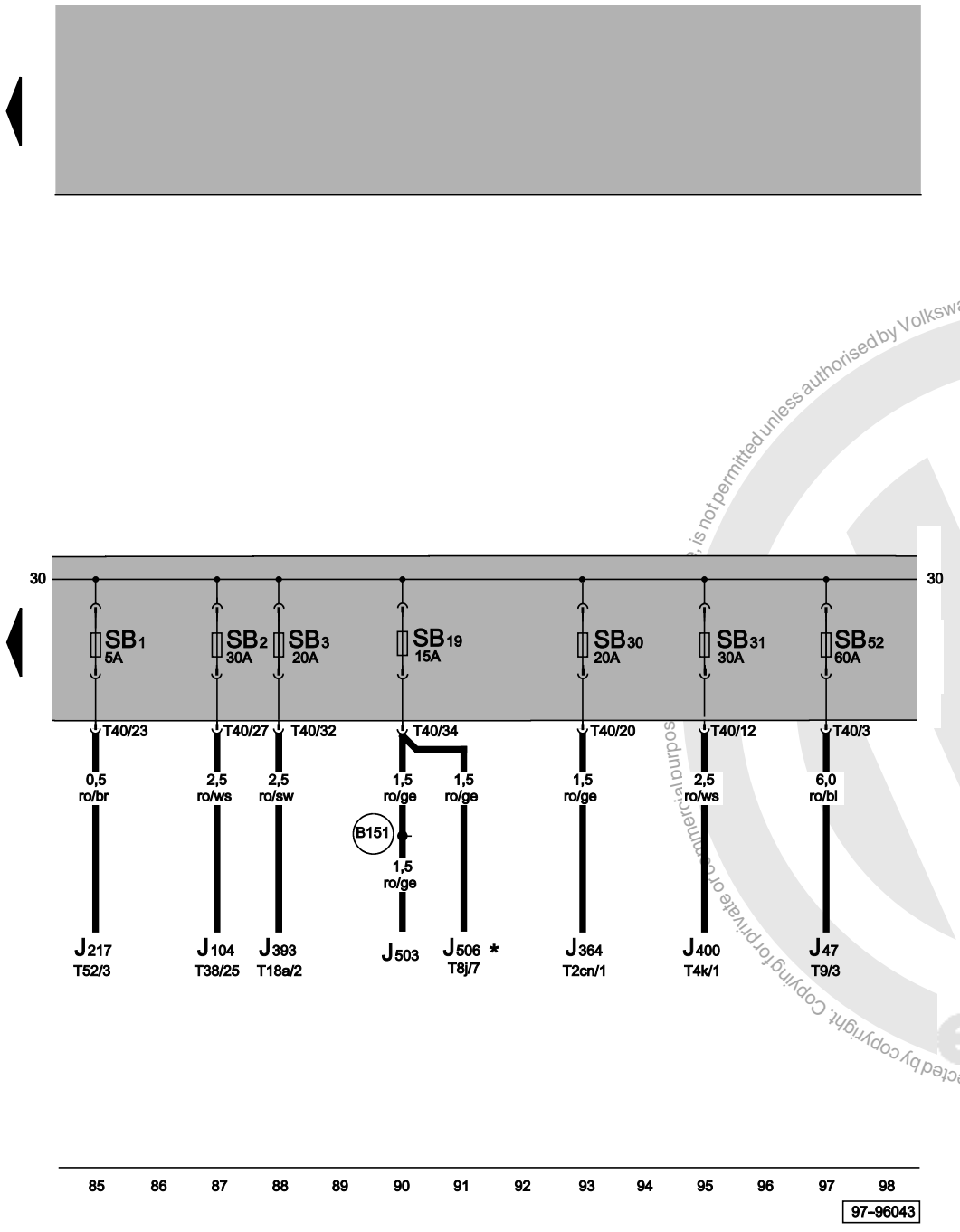


SB fuses

N75	Charge pressure control solenoid valve
N80	Activated charcoal filter solenoid valve 1
N249	Turbocharger air recirculation valve
N276	Fuel pressure regulating valve
SB32	Fuse 32 on fuse holder B
SB33	Fuse 33 on fuse holder B
SB44	Fuse 44 on fuse holder B
SB45	Fuse 45 on fuse holder B
SB46	Fuse 46 on fuse holder B
T2gz	2-pin connector
T2hb	2-pin connector
T2hc	2-pin connector
T2qx	2-pin connector
T3af	3-pin connector
T4n	4-pin connector
T6u	6-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector, on E-box
T40	40-pin connector, under E-box, in engine compartment
V144	Fuel system diagnostic pump
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D180	Connection (87a), in engine compartment wiring harness
*	Only models with engine code BPY

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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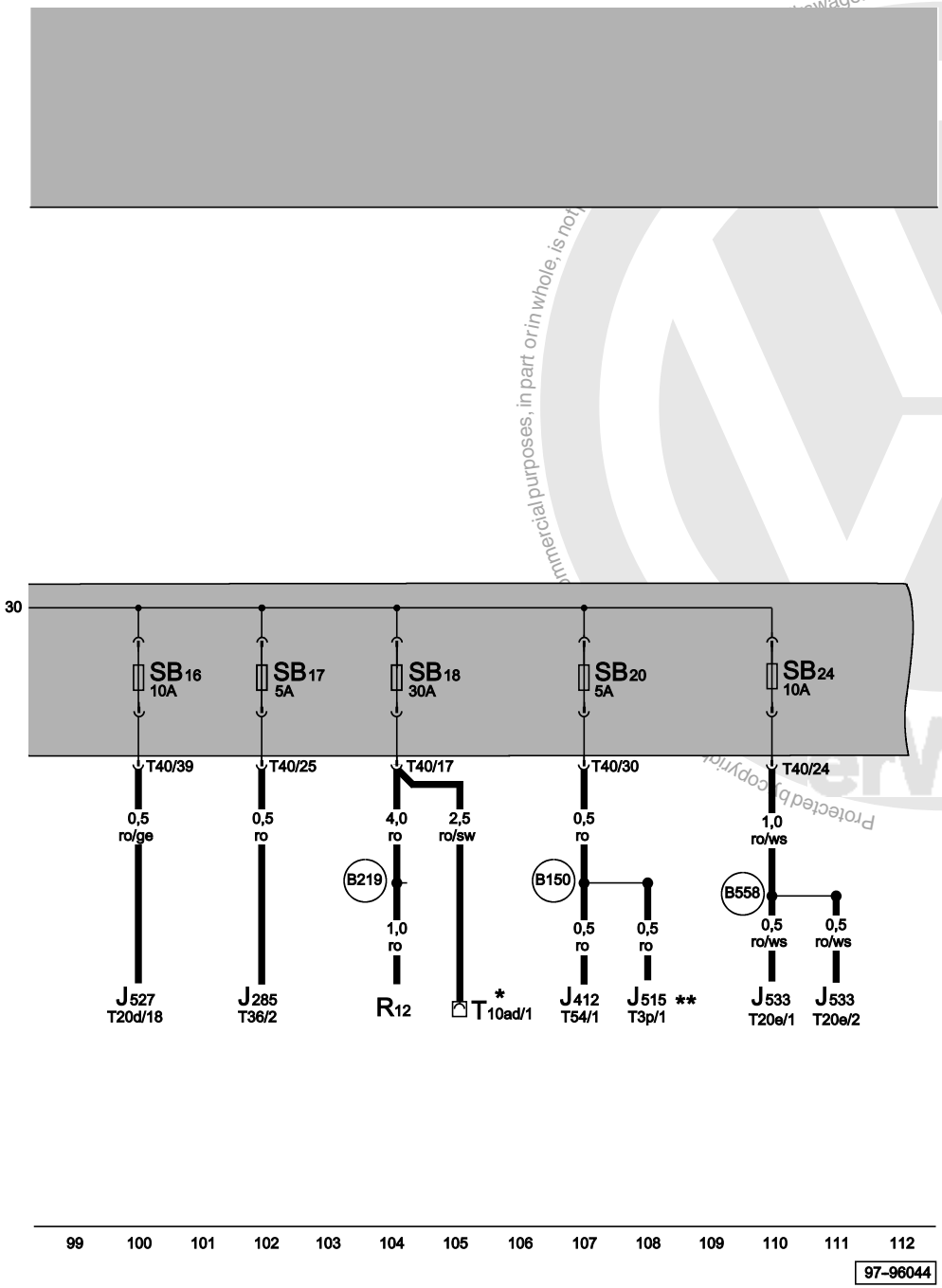


SB fuses

J47	Heated windscreen relay
J104	ABS control unit
J217	Automatic gearbox control unit
J364	Auxiliary heater control unit
J393	Convenience system central control unit
J400	Wiper motor control unit
J503	Control unit with display for radio and navigation
J506	Control unit with display for TV, radio, navigation system
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
SB3	Fuse 3 on fuse holder B
SB19	Fuse 19 on fuse holder B
SB30	Fuse 30 on fuse holder B
SB31	Fuse 31 on fuse holder B
SB52	Fuse 52 on fuse holder B
T2cn	2-pin connector
T4k	4-pin connector
T8j	8-pin connector
T9	9-pin connector
T18a	18-pin connector
T38	38-pin connector
T40	40-pin connector, under E-box, in engine compartment
T52	52-pin connector
B151	Positive connection 3 (30a), in interior wiring harness
*	Only models with radio and navigation system RNS MFD2

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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SB fuses

J285	Control unit in dash panel insert
J412	Control unit for mobile telephone operating electronics
J515	Aerial selection control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
R12	Amplifier
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB18	Fuse 18 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB24	Fuse 24 on fuse holder B
T3p	3-pin connector
T10ad	10-pin connector
T20d	20-pin connector
T20e	20-pin connector
T36	36-pin connector
T40	40-pin connector, under E-box, in engine compartment
T54	54-pin connector
B150	Positive connection 2 (30a), in interior wiring harness
B219	Positive connection 4 (30a), in interior wiring harness
B558	Connection 22 (30a), in main wiring harness
*	wire for special installation
**	Only models with radio and navigation system RNS MFD2

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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Basic equipment

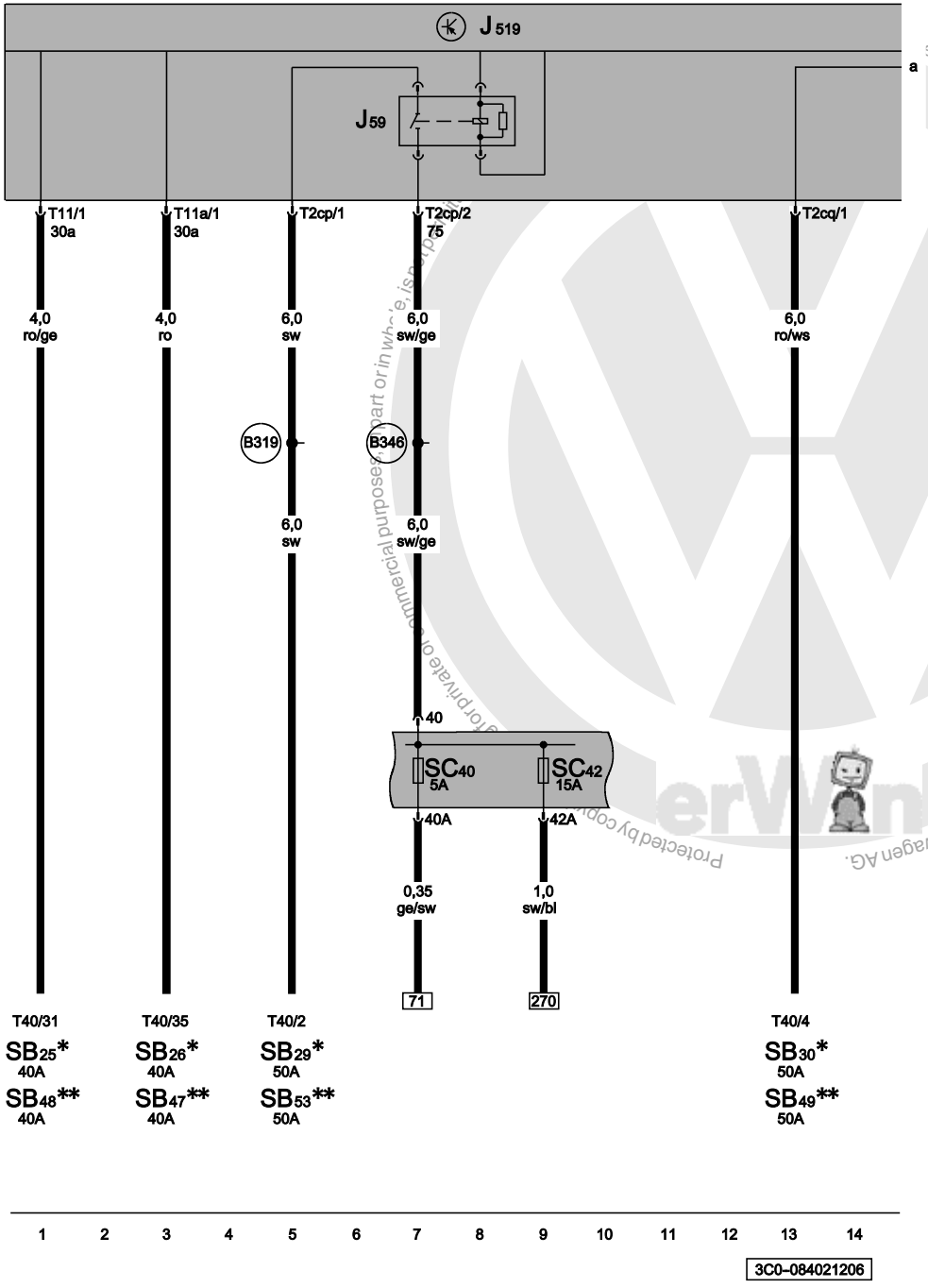
⇒ **Driving light assist**
⇒ **Rain and light sensor**
⇒ **Daytime running light**
From May 2006

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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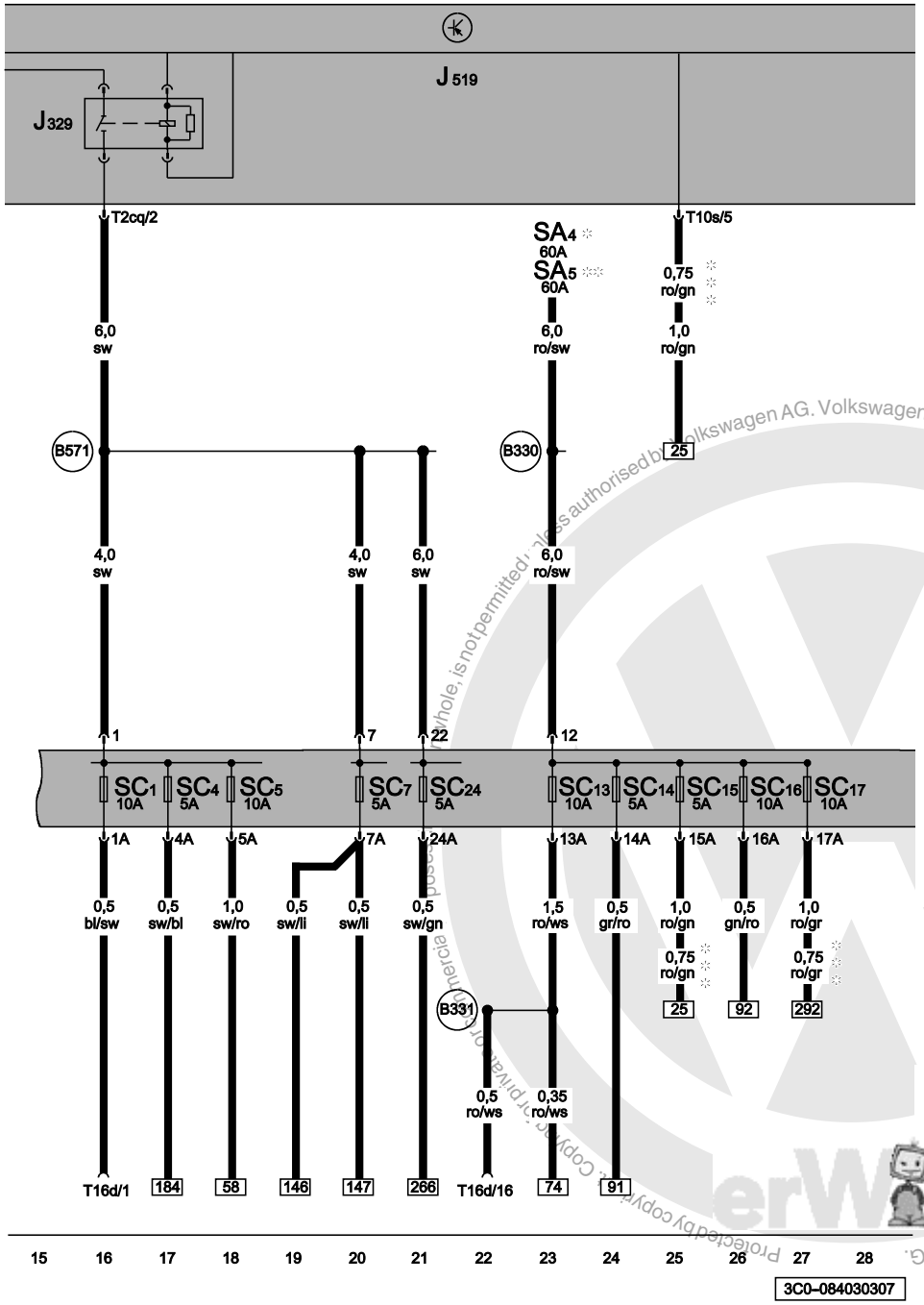


X-contact relief relay, onboard supply control unit, fuses

J59	X-contact relief relay
J519	Onboard supply control unit
SB25	Fuse 25 on fuse holder B
SB26	Fuse 26 on fuse holder B
SB29	Fuse 29 on fuse holder B
SB30	Fuse 30 on fuse holder B
SB47	Fuse 47 on fuse holder B
SB48	Fuse 48 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC40	Fuse 40 on fuse holder C
SC42	Fuse 42 on fuse holder C
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T40	40-pin connector, on E-box
B319	Connection 5 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
*	Fuses in E-box low
**	Fuses in E-box high

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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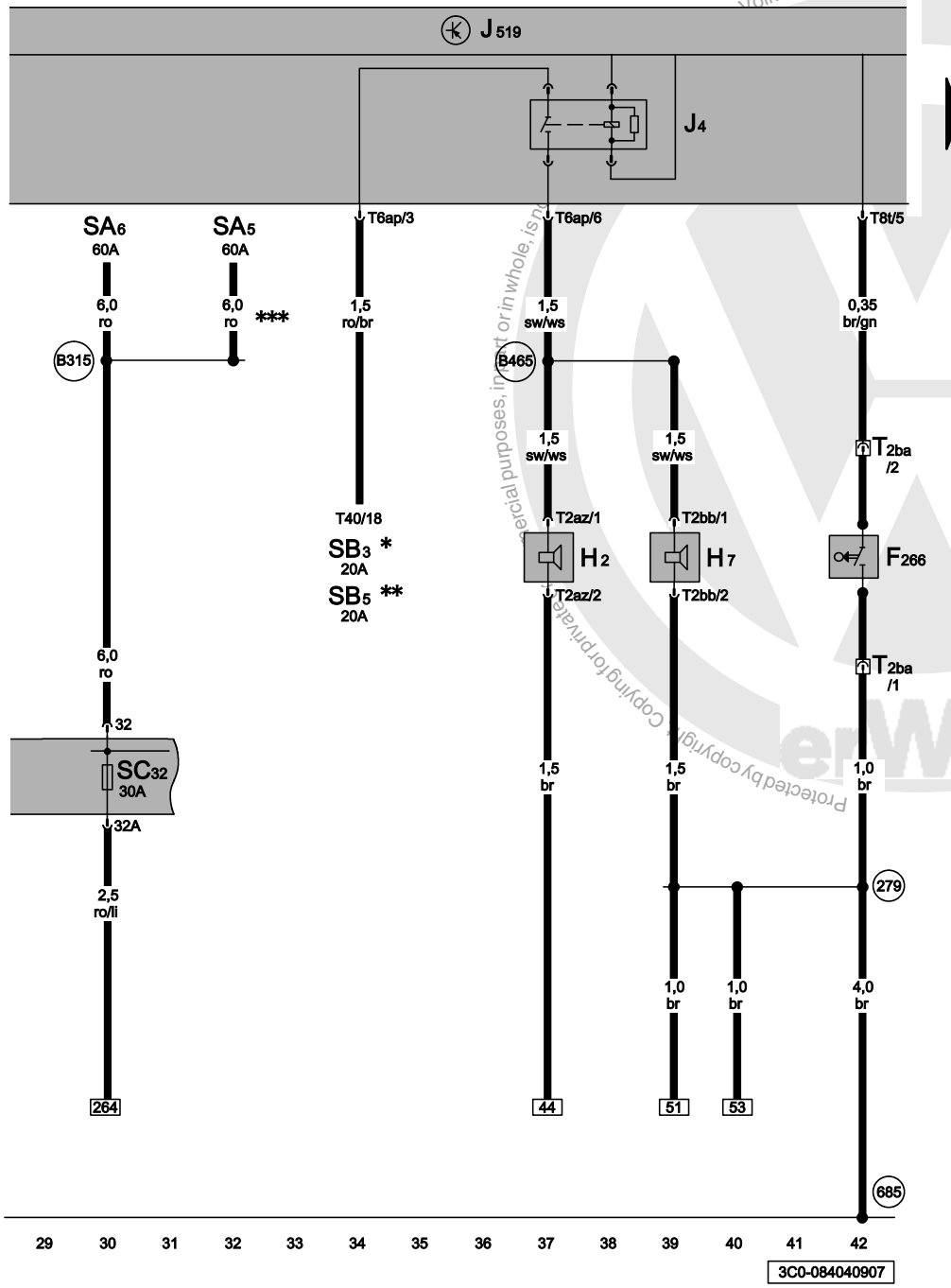


Terminal 15 voltage supply relay, onboard supply control unit, fuses

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC1	Fuse 1 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC5	Fuse 5 on fuse holder C
SC7	Fuse 7 on fuse holder C
SC13	Fuse 13 on fuse holder C
SC14	Fuse 14 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC16	Fuse 16 on fuse holder C
SC17	Fuse 17 on fuse holder C
SC24	Fuse 24 on fuse holder C
T2cq	2-pin connector, black
T10s	10-pin connector, black
T16d	16-pin connector, self-diagnosis connection
B330	Connection 16 (30a), in main wiring harness
B331	Connection 17 (30a), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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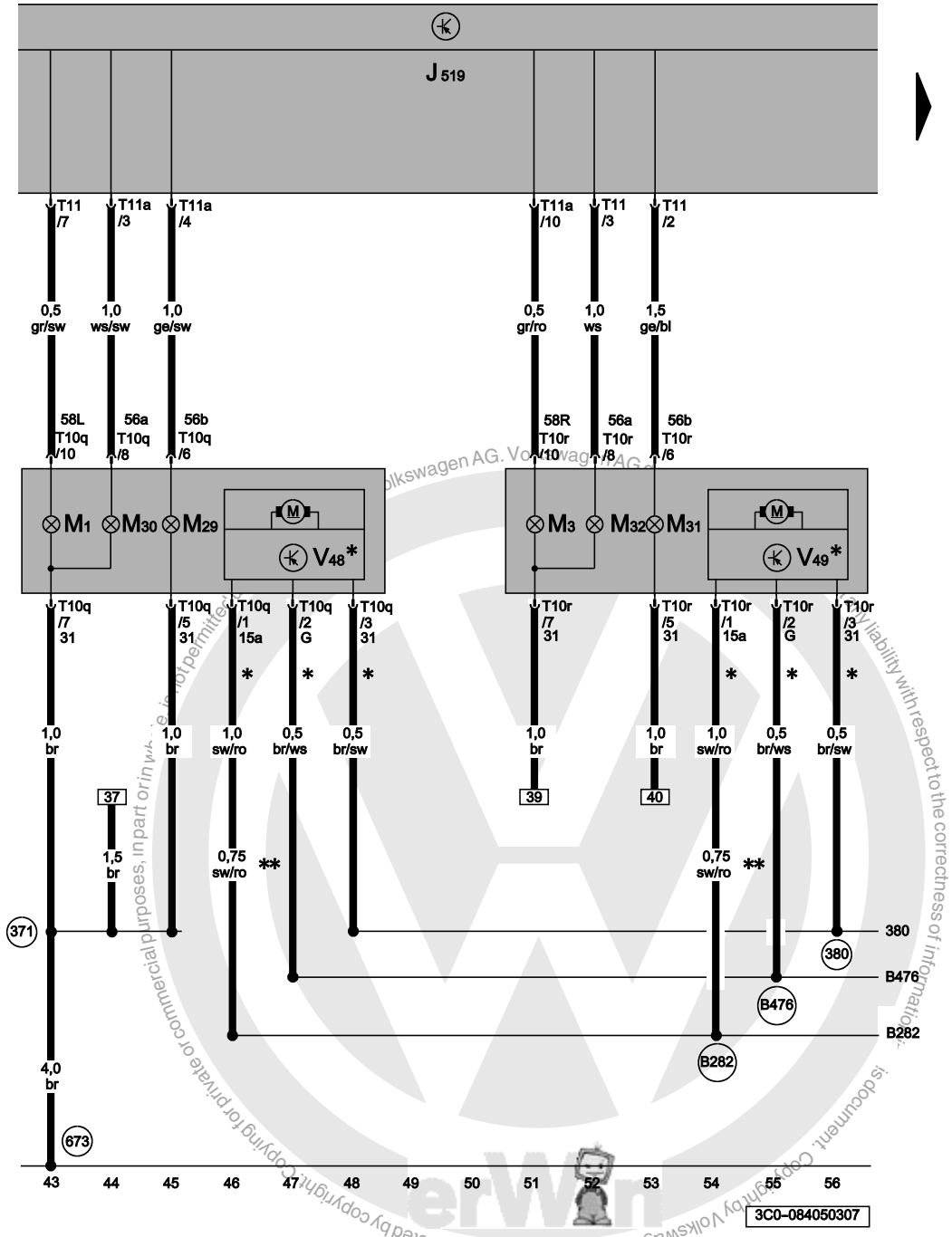


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Bonnet contact switch, horn, onboard supply control unit

F266	Bonnet contact switch
H2	Treble horn
H7	Bass horn
J4	Dual tone horn relay
J519	Onboard supply control unit
SA5	Fuse 5 on fuse holder A
SA6	Fuse 6 on fuse holder A
SB3	Fuse 3 on fuse holder B
SB5	Fuse 5 on fuse holder B
SC32	Fuse 32 on fuse holder C
T2az	2-pin connector
T2ba	2-pin connector, black, behind right headlight
T2bb	2-pin connector
T6ap	6-pin connector
T8t	8-pin connector, black
T40	40-pin connector, on E-box
279	Earth connection 5, in interior wiring harness
685	Earth point 1 at front of right longitudinal member
B315	Connection 1 (30a), in main wiring harness
B465	Connection 1, in main wiring harness
*	Fuses in E-box low
**	Fuses in E-box high
***	Only models with rear battery

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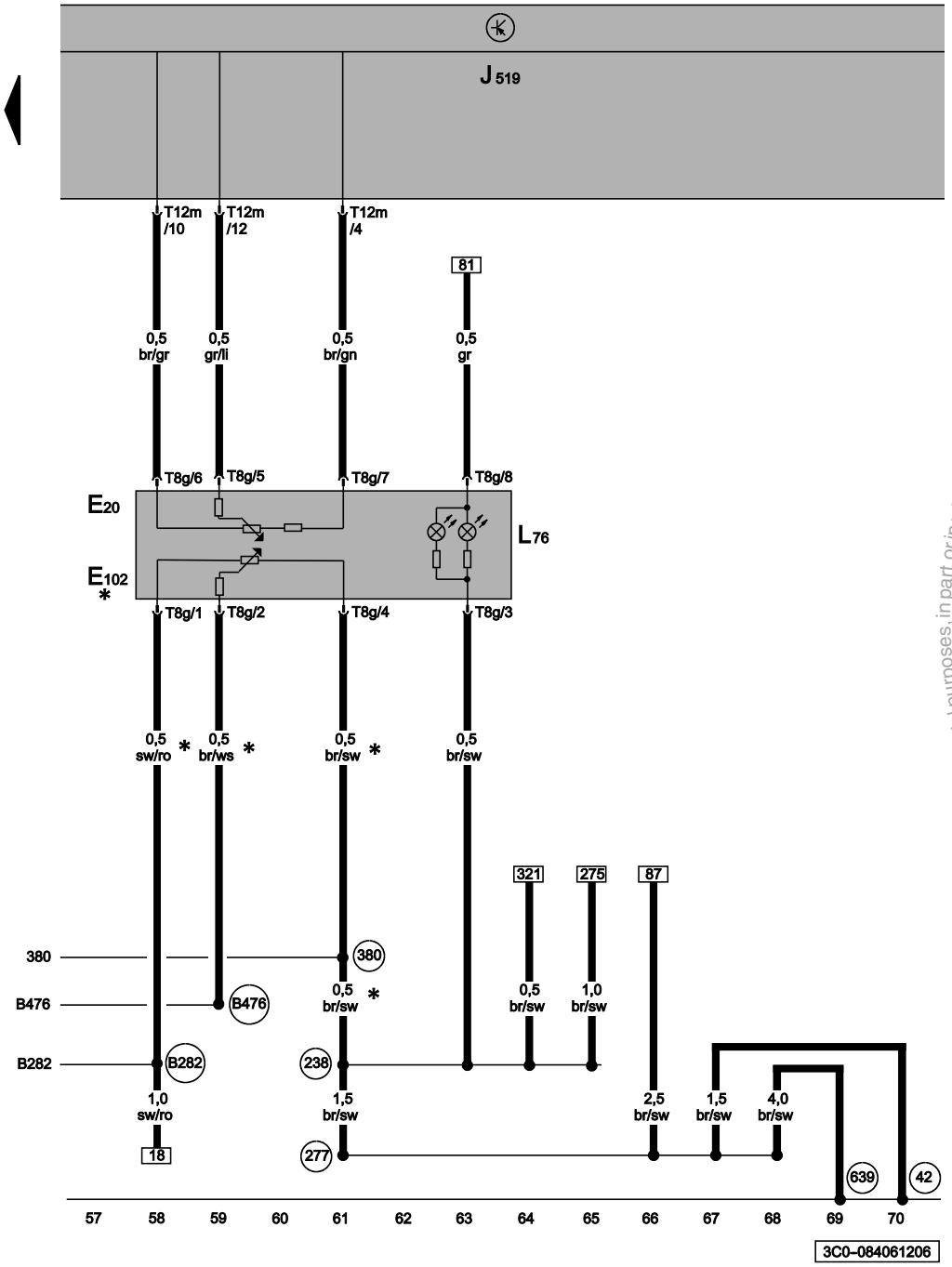


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Left and right headlight

J519	Onboard supply control unit
M1	Left side light bulb
M3	Right side light bulb
M29	Left headlight dipped beam bulb
M30	Left headlight main beam bulb
M31	Right headlight dipped beam bulb
M32	Right headlight main beam bulb
T10q	10-pin connector, black
T10r	10-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
V48	Left headlight range control motor
V49	Right headlight range control motor
371	Earth connection 6, in main wiring harness
380	Earth connection 15, in main wiring harness
673	Earth point 3, on front of left longitudinal member
B282	Connection 6 (15a), in main wiring harness
B476	Connection 12, in main wiring harness
*	Not for American markets
**	Applicable from November 2006

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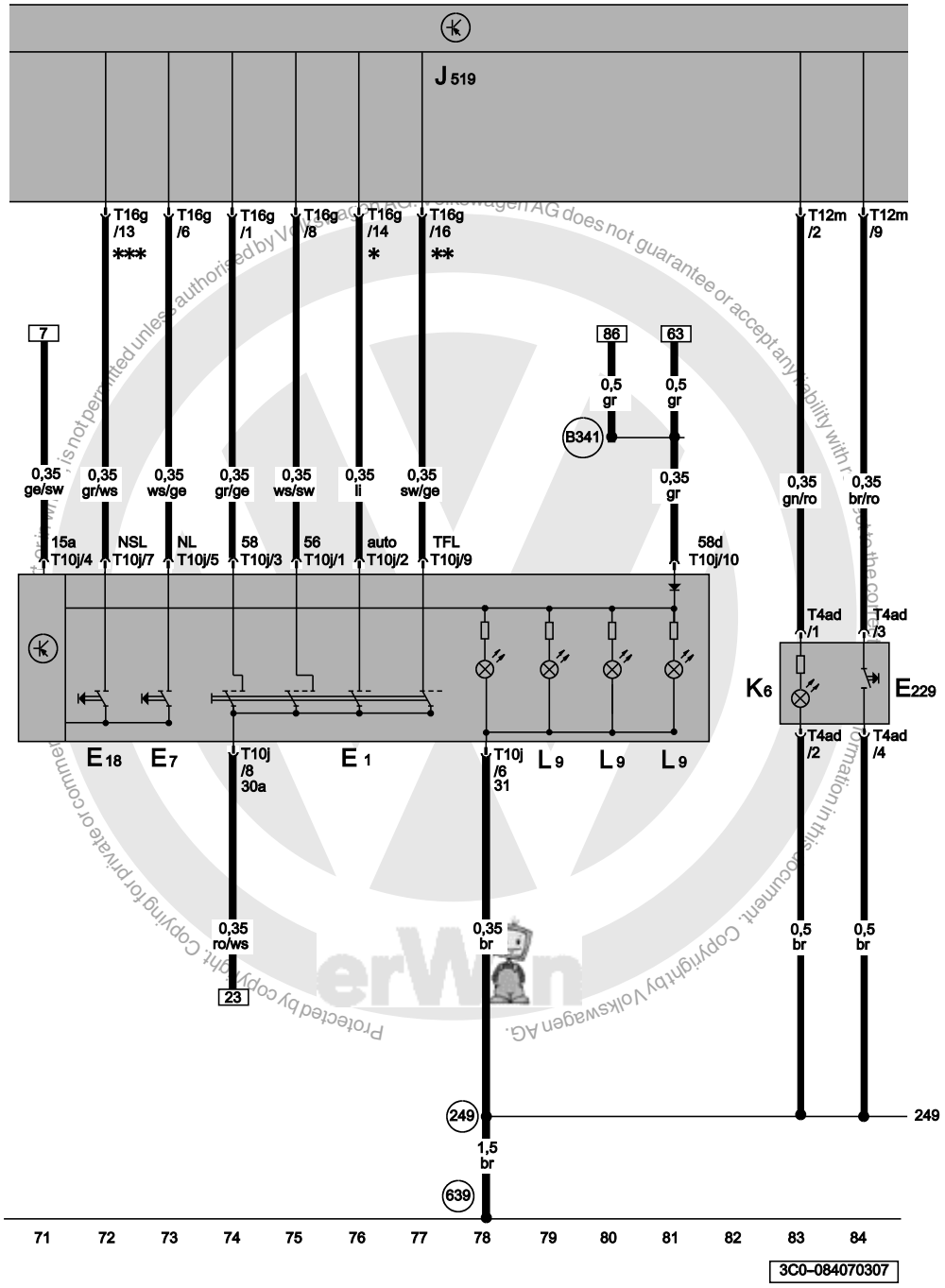


Switch and instrument illumination regulator, button illumination bulb, headlight range control adjuster

E20	Switch and instrument illumination regulator
E102	Headlight range control regulator
J519	Onboard supply control unit
L76	Button illumination bulb
T8g	8-pin connector
T12m	12-pin connector, black
42	Earth point, next to steering column
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
380	Earth connection 15, in main wiring harness
639	Earth point, left A-pillar
B282	Connection 6 (15a), in main wiring harness
B476	Connection 12, in main wiring harness
*	Not for American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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li	=	purple
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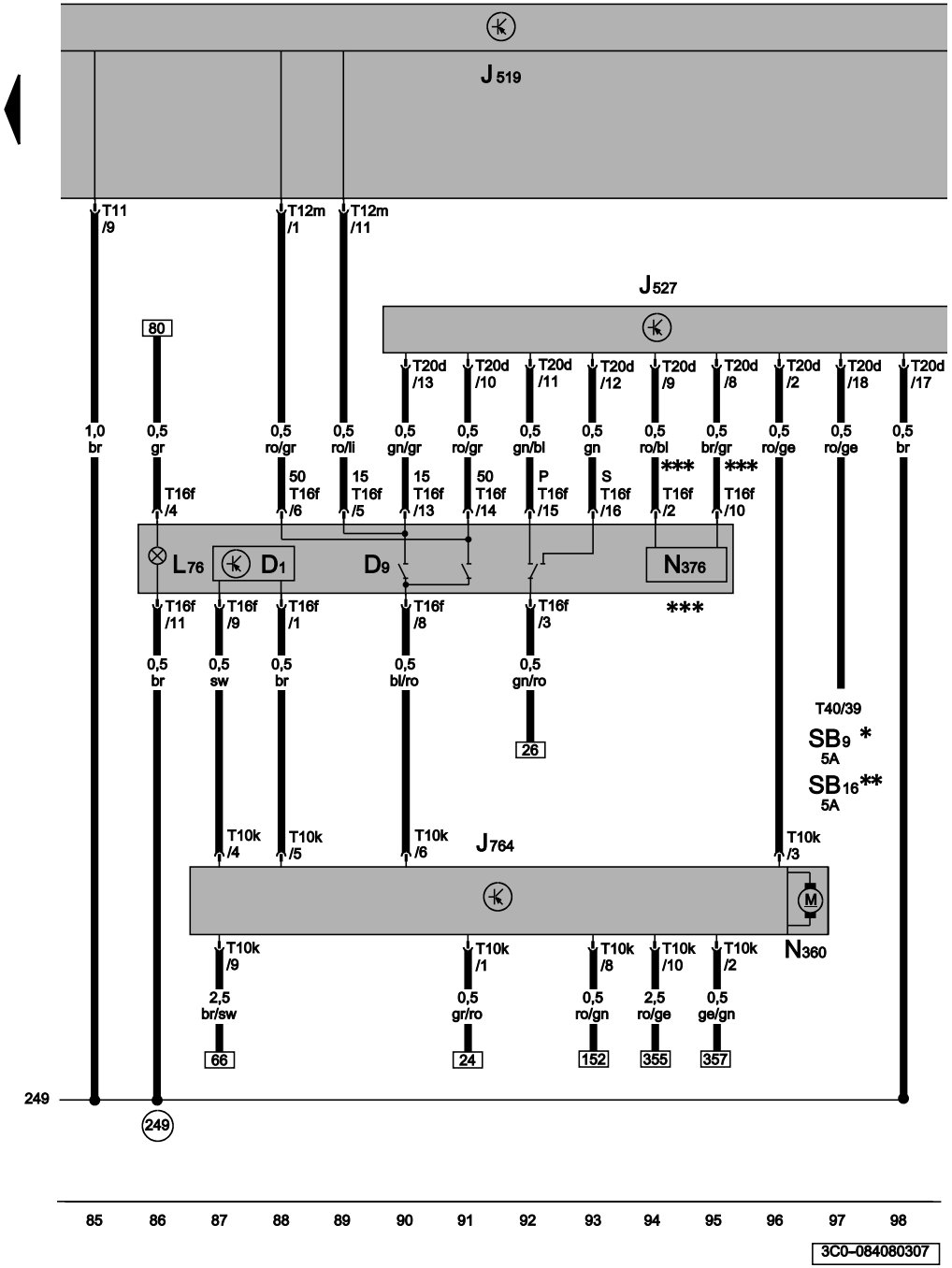


Light switch, fog light switch, light switch illumination bulb, button for hazard warning lights

E1	Light switch
E7	Fog light switch
E18	Rear fog light switch
E229	Hazard warning lights button
J519	Onboard supply control unit
K6	Warning lamp for hazard warning light
L9	Light switch illumination bulb
T4ad	4-pin connector
T10j	10-pin connector, black
T12m	12-pin connector, black
T16g	16-pin connector, black
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B341	Connection 2 (58d), in main wiring harness
*	Only models with driving light assist
**	Only models with daytime running light
***	Depends on equipment for American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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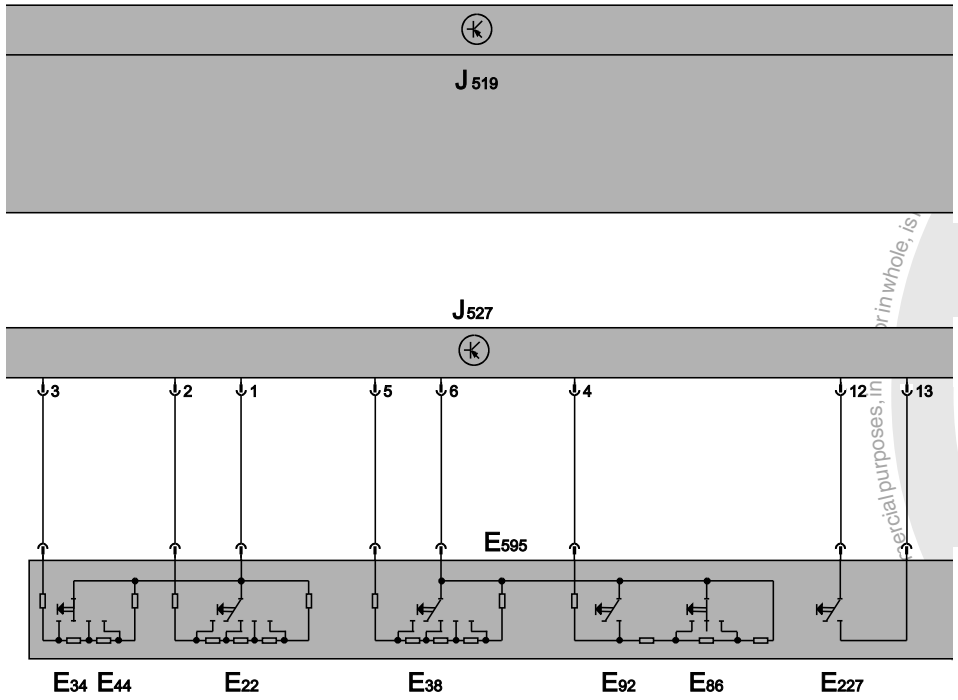


Immobilizer reading unit, control unit for electronic steering column lock, control unit for steering column electronics, electronic ignition lock

D1	Immobiliser reading unit
D9	Electronic ignition lock
J519	Onboard supply control unit
J527	Steering column electronics control unit
J764	Electronic steering column lock control unit
L76	Button illumination bulb
N360	Steering column lock control element
N376	Ignition key withdrawal lock solenoid
SB9	Fuse 9 on fuse holder B
SB16	Fuse 16 on fuse holder B
T10k	10-pin connector
T11	11-pin connector, black
T12m	12-pin connector, black
T16f	16-pin connector
T20d	20-pin connector
T40	40-pin connector
(249)	Earth connection 2, in interior wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Only models with Climatronic

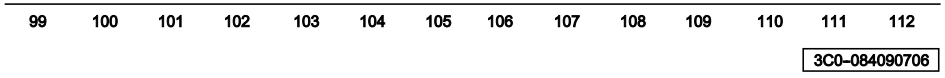
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sw	=	black
ro	=	red
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gn	=	green
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li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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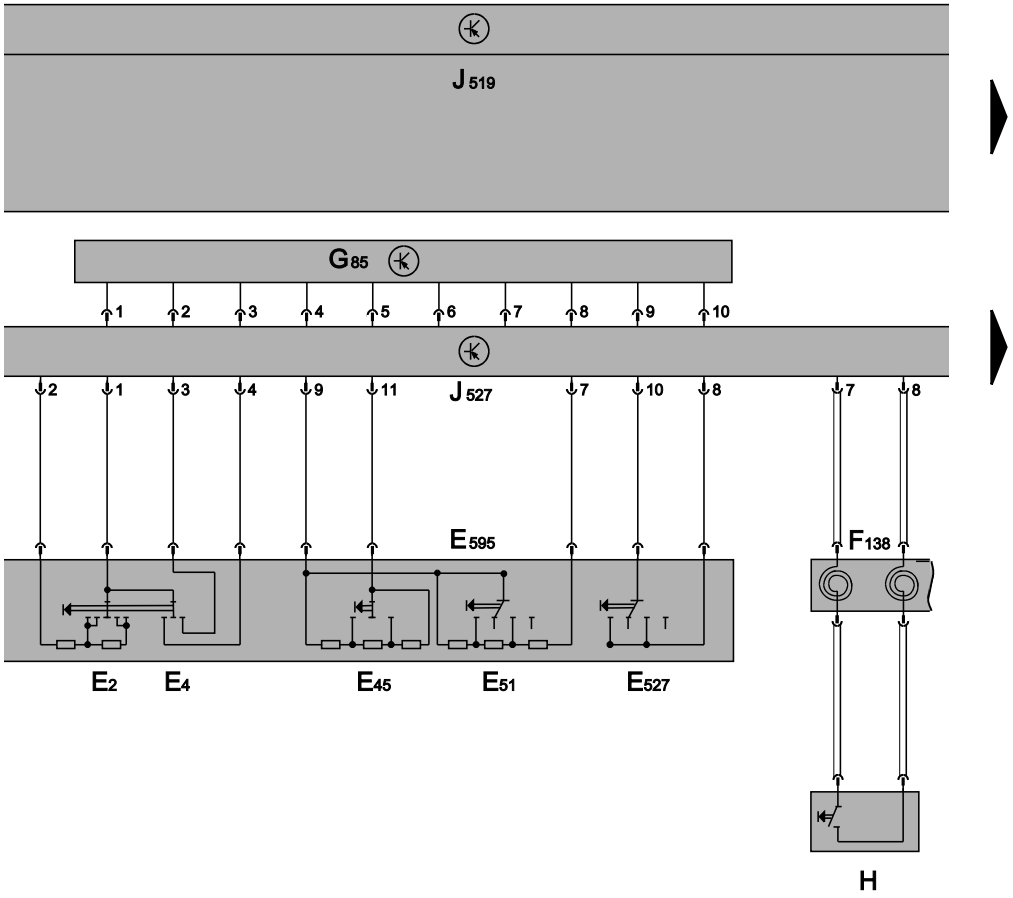
Steering column combination switch, onboard supply control unit, steering column electronics control unit

E22	Intermittent wiper switch
E34	Rear wiper switch
E38	Intermittent wipe regulator
E44	Washer pump switch (automatic wash/wipe and headlight washer system)
E86	Multifunction display call-up button
E92	Reset button
E227	Cruise control system (CCS) SET button
E595	Steering column combination switch
J519	Onboard supply control unit
J527	Steering column electronics control unit



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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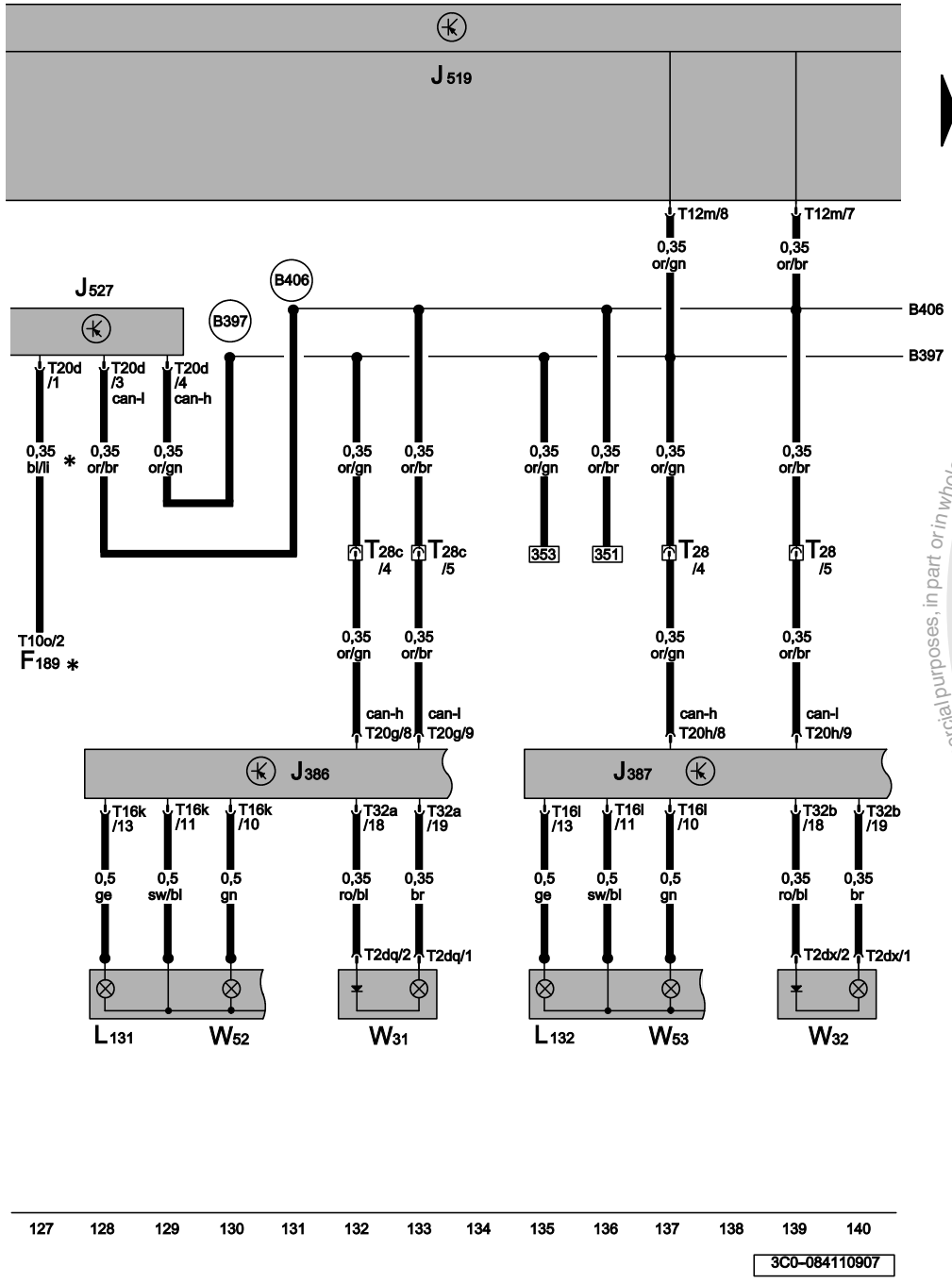


Steering column combination switch, airbag coil connector and return spring with slip ring, steering angle sender, onboard supply control unit, control unit for steering column electronics

E2	Turn signal switch
E4	Headlight dipper and flasher switch
E45	Cruise control system switch
E51	Cruise control system master switch
E527	Button to temporarily switch cruise control system (CCS) off
E595	Steering column combination switch
F138	Airbag coil connector and return ring with slip ring
G85	Steering angle sender
H	Horn plate
J519	Onboard supply control unit
J527	Steering column electronics control unit
<fo:exter	Flexible printed circuit
nal-graphic src="Z:/tools/png-convert/out//slp/ft_icons/rahmen.png" content-width="20pt" scaling="uniform"/>	

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
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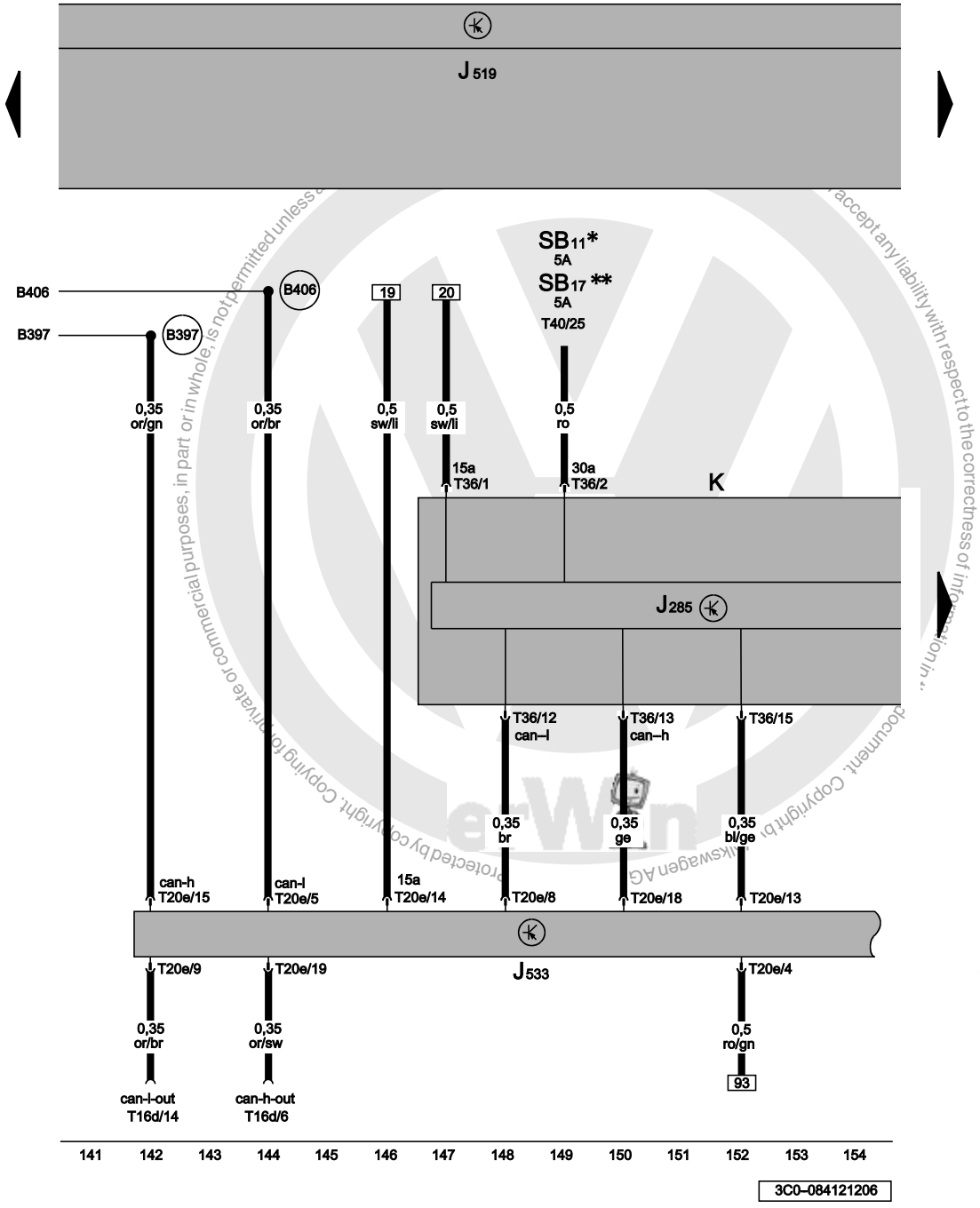


Tiptronic switch, door control units, front entry lights, exterior mirror turn signal bulb, entry lights in exterior mirror

F189	Tiptronic switch
J386	Driver door control unit
J387	Front passenger side door control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
L131	Driver side exterior mirror turn signal bulb
L132	Front passenger side exterior mirror turn signal bulb
T2dq	2-pin connector
T2dx	2-pin connector
T10o	10-pin connector
T12m	12-pin connector
T16k	16-pin connector
T16l	16-pin connector
T20d	20-pin connector
T20g	20-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T32a	32-pin connector
T32b	32-pin connector
W31	Front left entry light
W32	Front right entry light
W52	Driver side entry light in exterior mirror
W53	Front passenger side entry light in exterior mirror
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only models with automatic gearbox

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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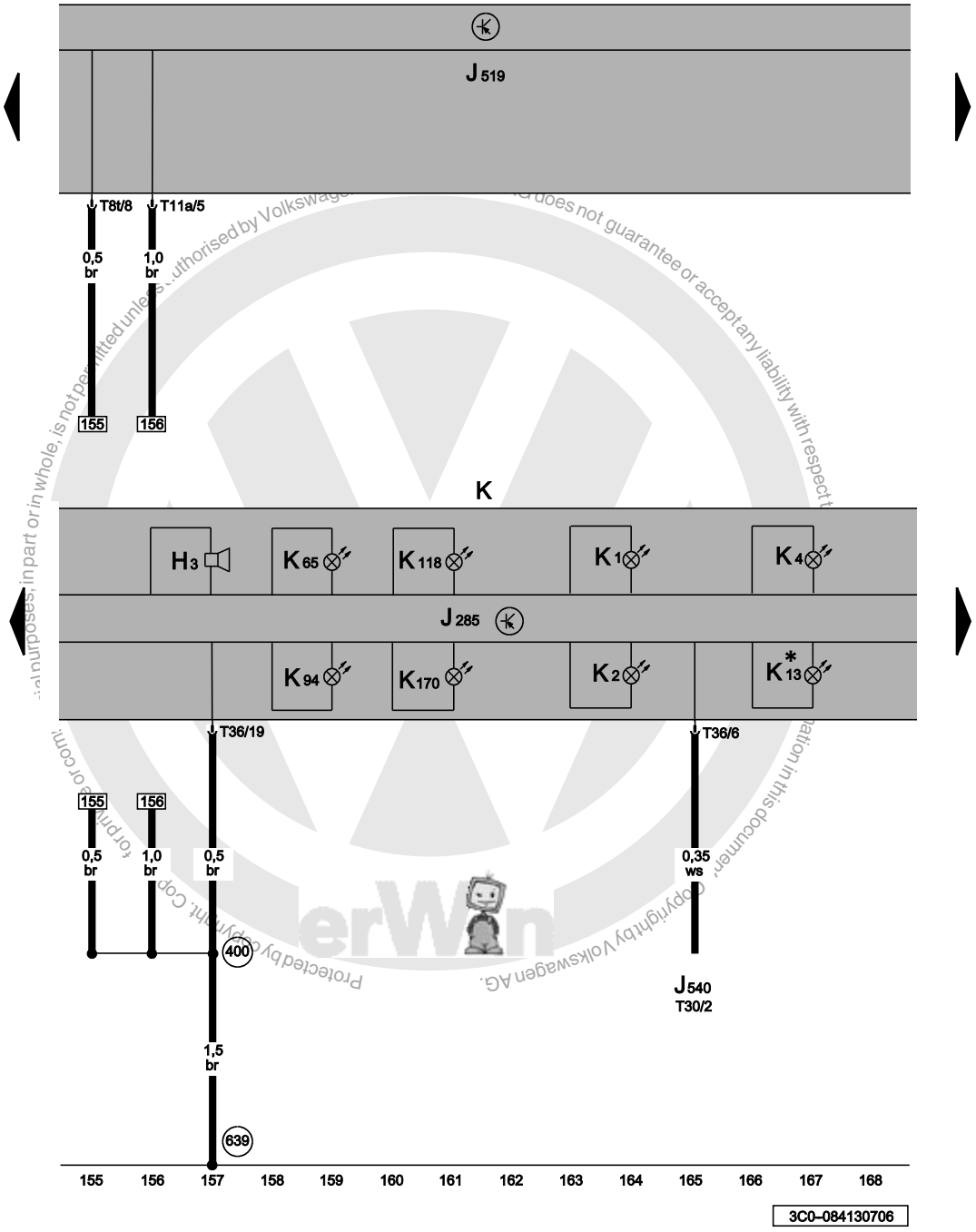


Dash panel insert, data bus diagnosis interface, self-diagnosis connection

J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
K	Dash panel insert
SB11	Fuse 11 on fuse holder B
SB17	Fuse 17 on fuse holder B
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T36	36-pin connector
T40	40-pin connector, on E-box
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Fuses in E-box low
**	Fuses in E-box high

ws	=	white
sw	=	black
ro	=	red
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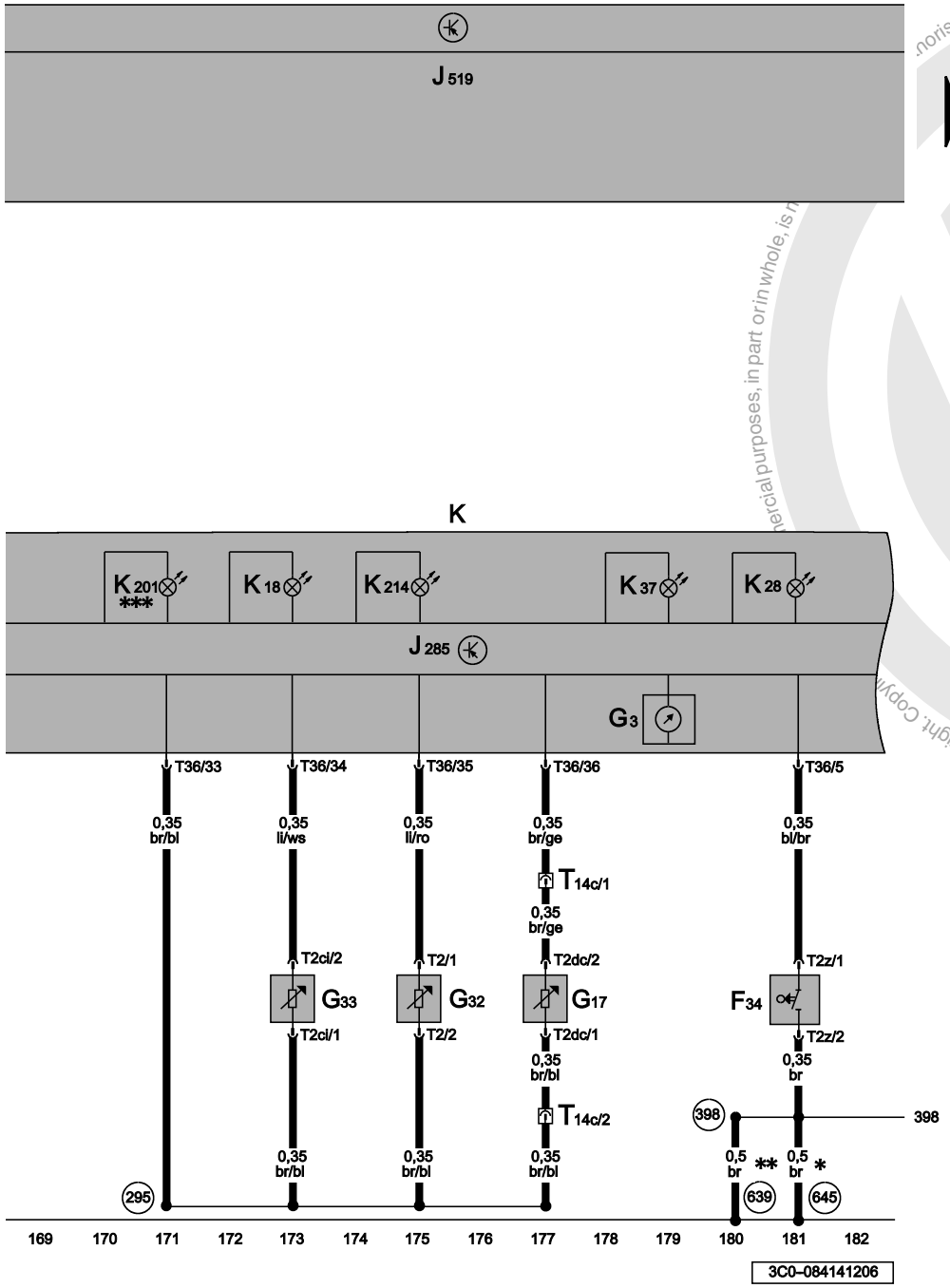


Dash panel insert, control unit in dash panel insert, warning lamps, brake system warning lamp, bulb failure warning lamp

H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
K	Dash panel insert
K1	Main beam warning lamp
K2	Alternator warning lamp
K4	Side light warning lamp
K13	Rear fog light warning lamp
K65	Left turn signal warning lamp
K94	Right turn signal warning lamp
K118	Brake system warning lamp
K170	Bulb failure warning lamp
T8t	8-pin connector, black
T11a	11-pin connector, brown
T30	30-pin connector
T36	36-pin connector
(400)	Earth connection 35, in main wiring harness
(639)	Earth point, left A-pillar
*	Depends on equipment for American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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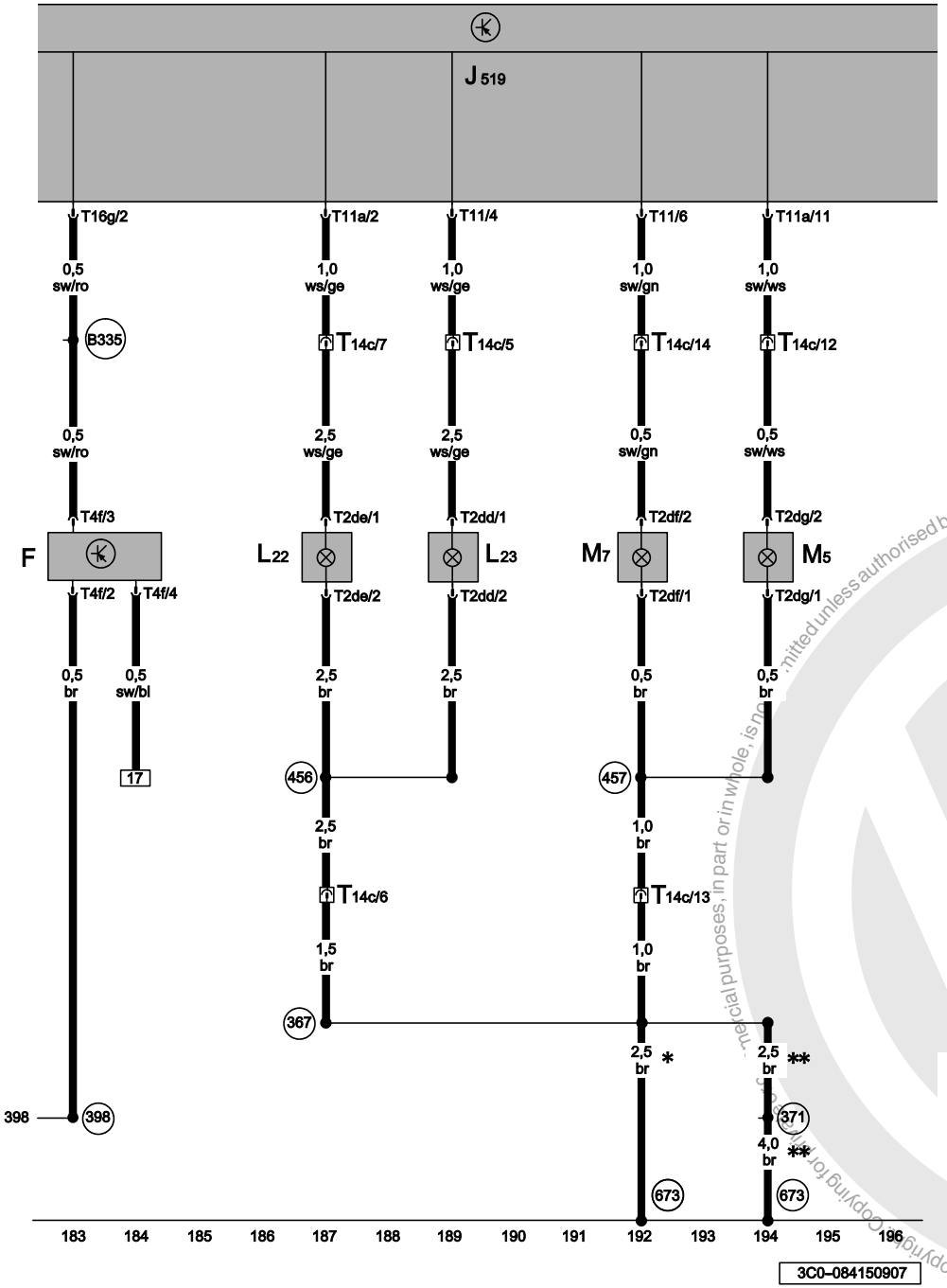
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Dash panel insert, brake fluid level warning contact, ambient temperature sensor, coolant shortage indicator sender, washer fluid level sender

F34	Brake fluid level warning contact
G3	Coolant temperature gauge
G17	Ambient temperature sensor
G32	Coolant shortage indicator sender
G33	Windscreen washer fluid level sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K18	Trailer coupling warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K37	Washer fluid level warning lamp
K201	Fuel tank flap lock warning lamp
K214	Electric parking brake and handbrake fault warning lamp
T2	2-pin connector
T2z	2-pin connector
T2ci	2-pin connector
T2dc	2-pin connector
T14c	14-pin connector, coupling point, front bumper
T36	36-pin connector
295	Earth connection 10, in interior wiring harness
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
645	Earth point 1, on bulkhead

* Applicable to October 2006
** Applicable from November 2006
*** Only American markets

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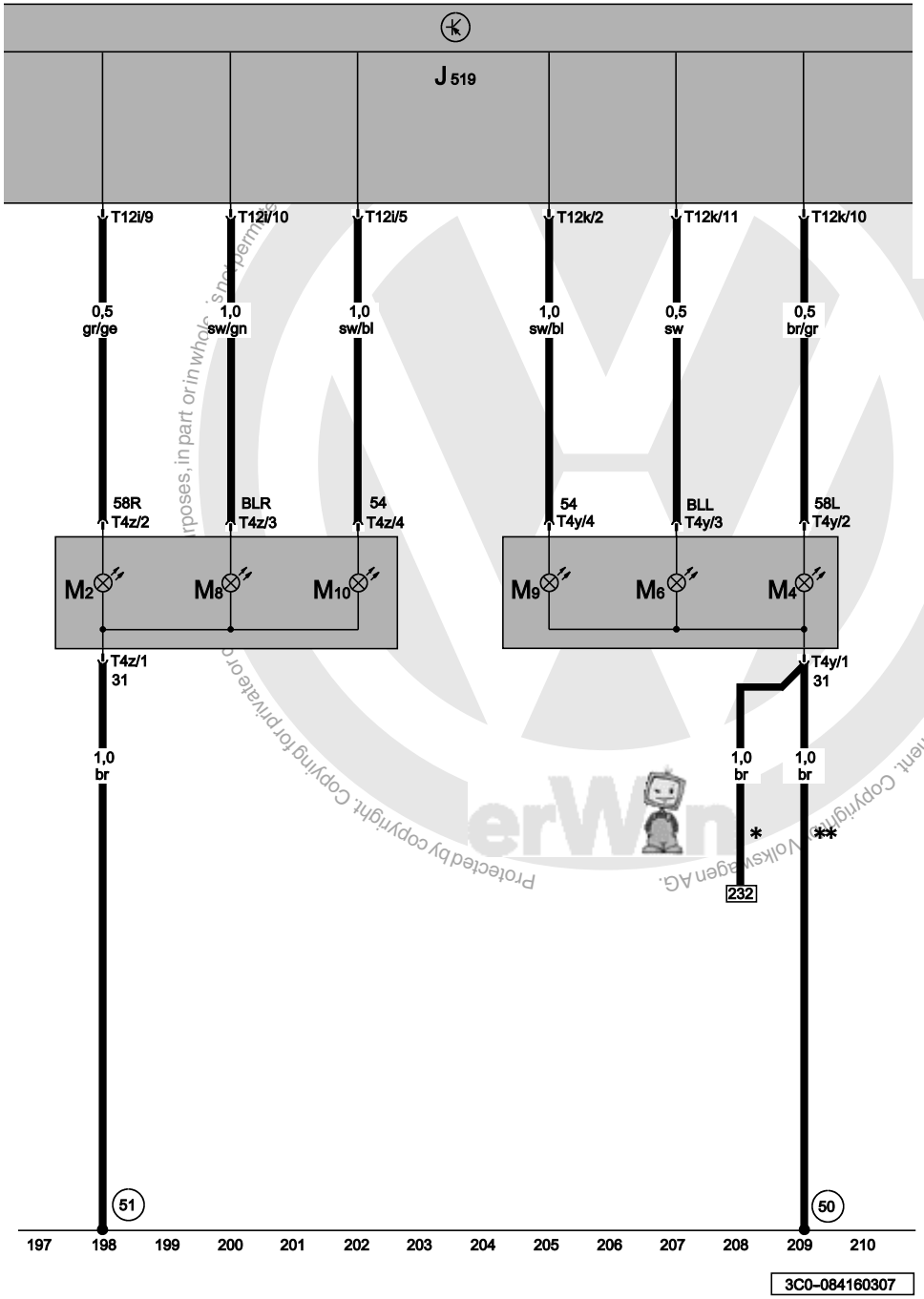


Turn signal and fog light bulbs, brake light switch

F	Brake light switch
J519	Onboard supply control unit
L22	Left fog light bulb
L23	Right fog light bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
T2dd	2-pin connector
T2de	2-pin connector
T2df	2-pin connector
T2dg	2-pin connector
T4f	4-pin connector
T11	11-pin connector, black
T11a	11-pin connector, brown
T14c	14-pin connector, coupling point, front bumper on left
T16g	16-pin connector, black
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
398	Earth connection 33, in main wiring harness
456	Earth connection 1, front bumper wiring harness
457	Earth connection 2, front bumper wiring harness
673	Earth point 3, on front of left longitudinal member
B335	Connection 1 (54), in main wiring harness
*	Applicable to October 2006
**	Applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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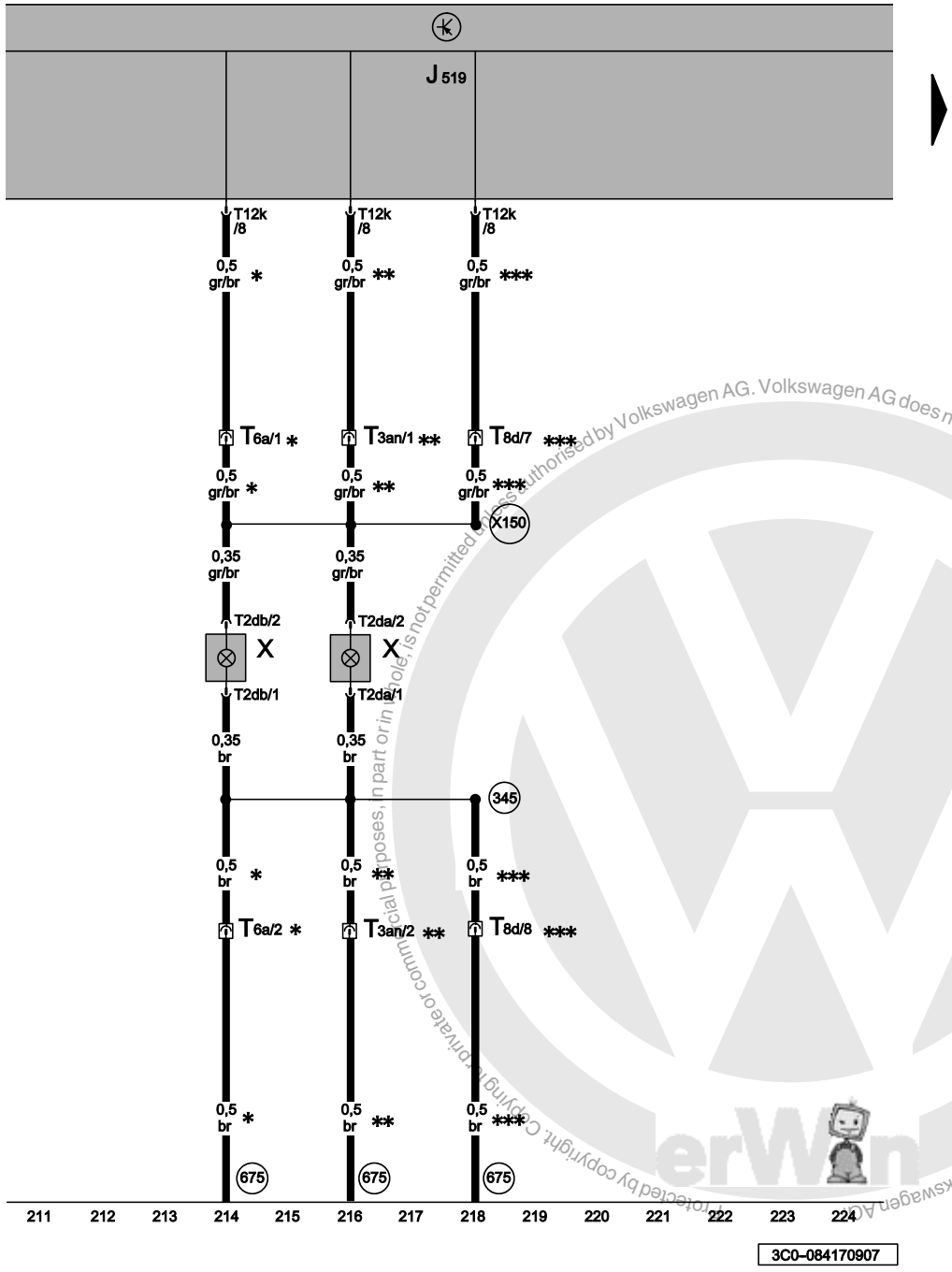


Bulbs for tail lights, turn signals, brake lights

J519	Onboard supply control unit
M2	Right tail light bulb
M4	Left tail light bulb
M6	Rear left turn signal bulb
M8	Rear right turn signal bulb
M9	Left brake light bulb
M10	Right brake light bulb
T4y	4-pin connector
T4z	4-pin connector
T12i	12-pin connector, black
T12k	12-pin connector, brown
50	Earth point, on left in luggage compartment
51	Earth point, on right in luggage compartment
*	Only on saloon models
**	Only Variant models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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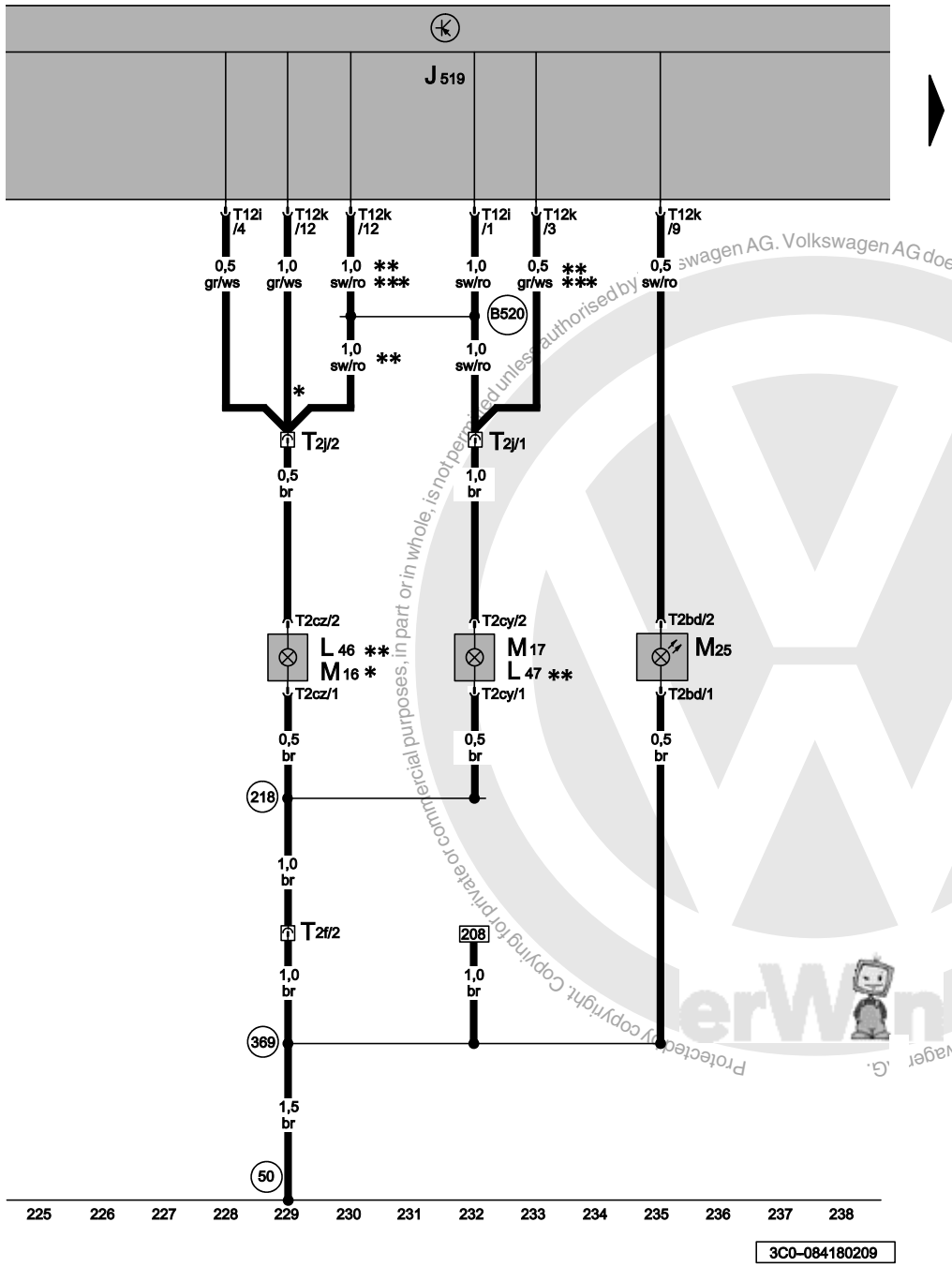


Registration plate lights (saloon)

J519	Onboard supply control unit
T2da	2-pin connector
T2db	2-pin connector
T3an	3-pin connector, black, coupling point, rear bumper
T6a	6-pin connector, black, coupling point, rear bumper
T8d	8-pin connector, black, coupling point, rear bumper
T12k	12-pin connector, brown
X	Number plate light
(345)	Earth connection, in bumper wiring harness
(675)	Earth point 2, on right in luggage compartment
(X150)	Connection (58), rear bumper wiring harness
*	Applicable to October 2006
**	Applicable from November 2006, with no park assist
***	Applicable from November 2006, with park assist

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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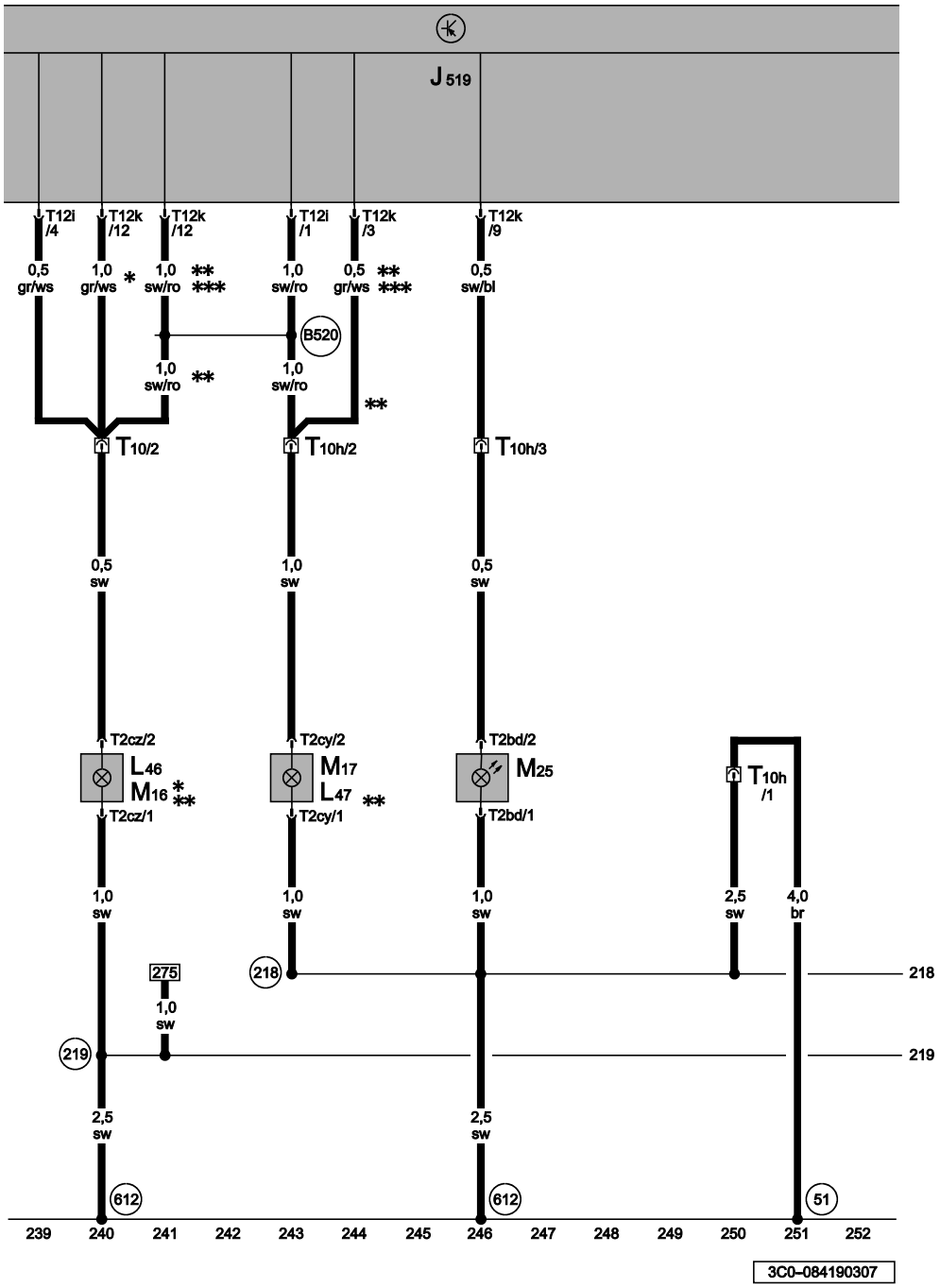


Rear lights (saloon)

J519	Onboard supply control unit
L46	Rear left fog light bulb
L47	Rear right fog light bulb
M16	Left reversing light bulb
M17	Right reversing light bulb
M25	High-level brake light bulb
T2f	2-pin connector, green, rear lid coupling point
T2j	2-pin connector, blue, rear lid coupling point
T2bd	2-pin connector
T2cy	2-pin connector
T2cz	2-pin connector
T12i	12-pin connector, black
T12k	12-pin connector, brown
50	Earth point, on left in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
B520	Connection (RL), in main wiring harness
*	Only American markets
**	Only Japanese markets
***	Applicable up to April 2007

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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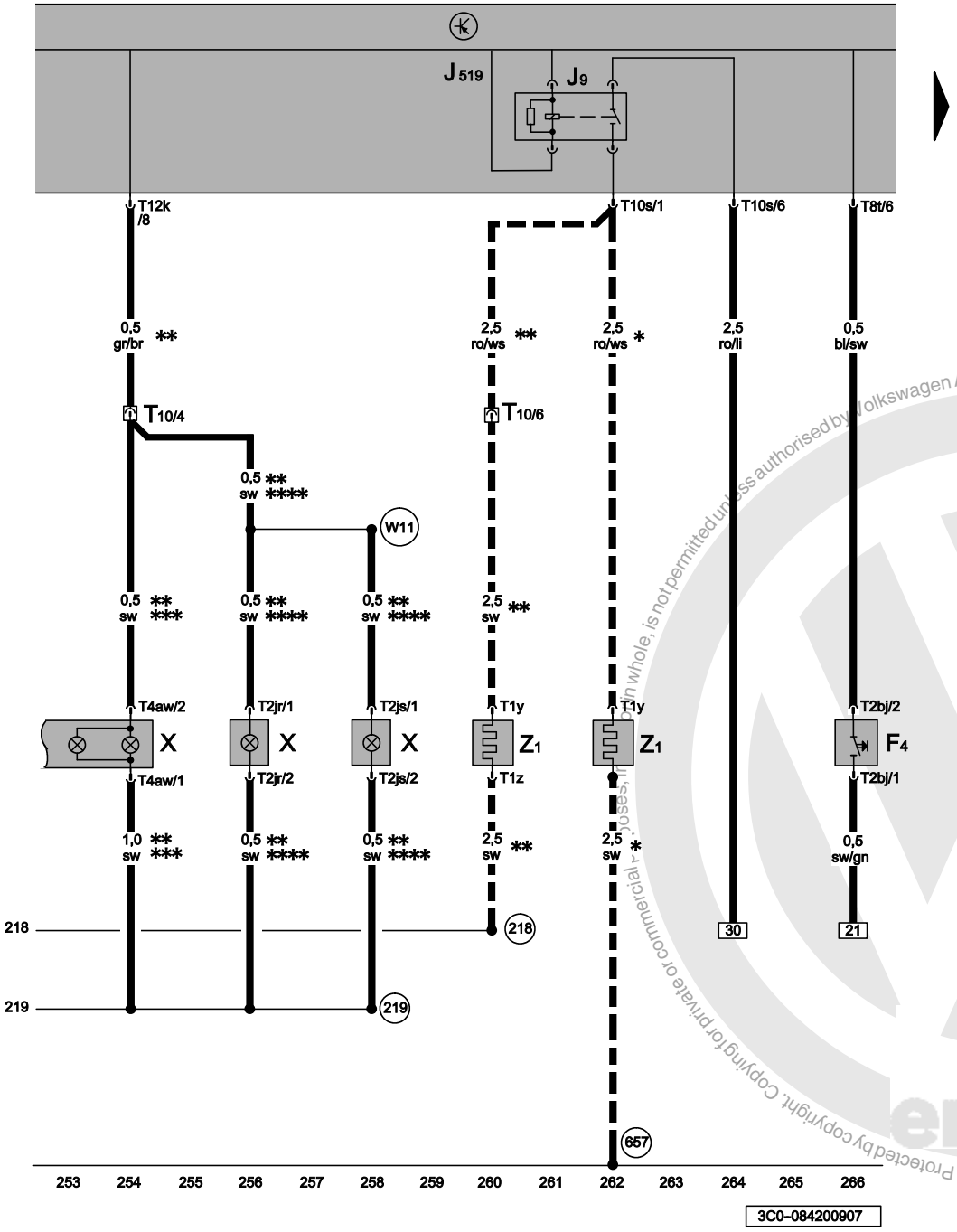


Rear lights (Variant)

J519	Onboard supply control unit
L46	Rear left fog light bulb
L47	Rear right fog light bulb
M16	Left reversing light bulb
M17	Right reversing light bulb
M25	High-level brake light bulb
T2bd	2-pin connector
T2cy	2-pin connector
T2cz	2-pin connector
T10	10-pin connector, coupling point on left of rear lid
T10h	10-pin connector, coupling point, on right of rear lid
T12i	12-pin connector, black
T12k	12-pin connector, brown
(51)	Earth point, on right in luggage compartment
(218)	Earth connection 1, in rear lid wiring harness
(219)	Earth connection 2, in rear lid wiring harness
(612)	Earth point, centre on rear lid
(B520)	Connection (RL), in main wiring harness
*	Only American markets
**	Only Japanese markets
***	Applicable up to April 2007

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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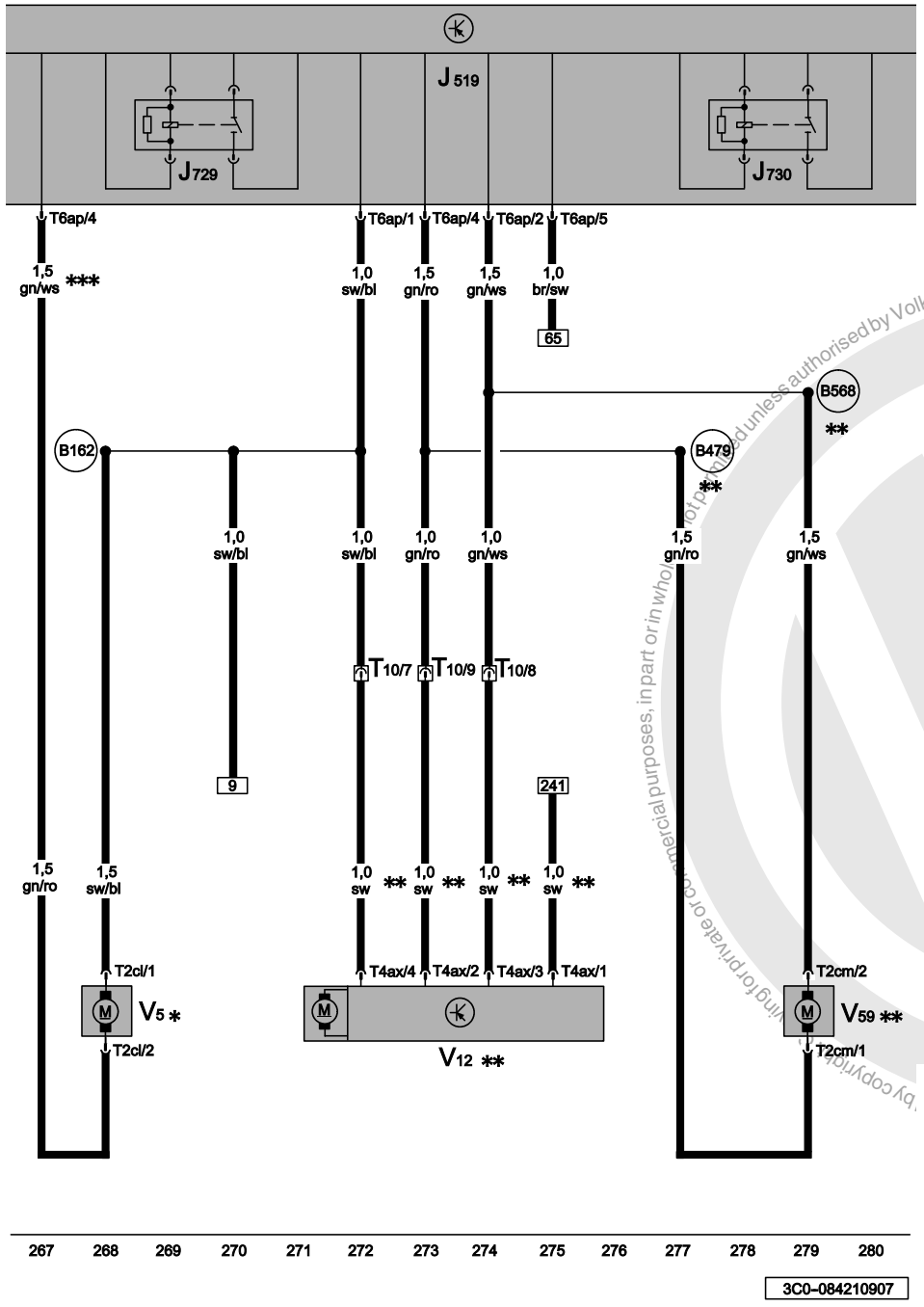


Reversing light switch, relay for heated rear window, number plate lights (Variant), heated rear window

F4	Reversing light switch
J9	Heated rear window relay
J519	Onboard supply control unit
T1y	Single connector
T1z	Single connector
T2bj	2-pin connector
T2jr	2-pin connector
T2js	2-pin connector
T4aw	4-pin connector
T8t	8-pin connector
T10	10-pin connector, coupling point on left of rear lid
T10s	10-pin connector, black
X	Number plate light
Z1	Heated rear window
218	Earth connection 1, in rear lid wiring harness
219	Earth connection 2, in rear lid wiring harness
657	Earth point 1, on left near rear window
W11	Connection (58), in rear lid wiring harness
*	Only on saloon models
**	Only Variant models
***	Applicable up to April 2007
****	Valid from May 2007
---	Only models with no radio

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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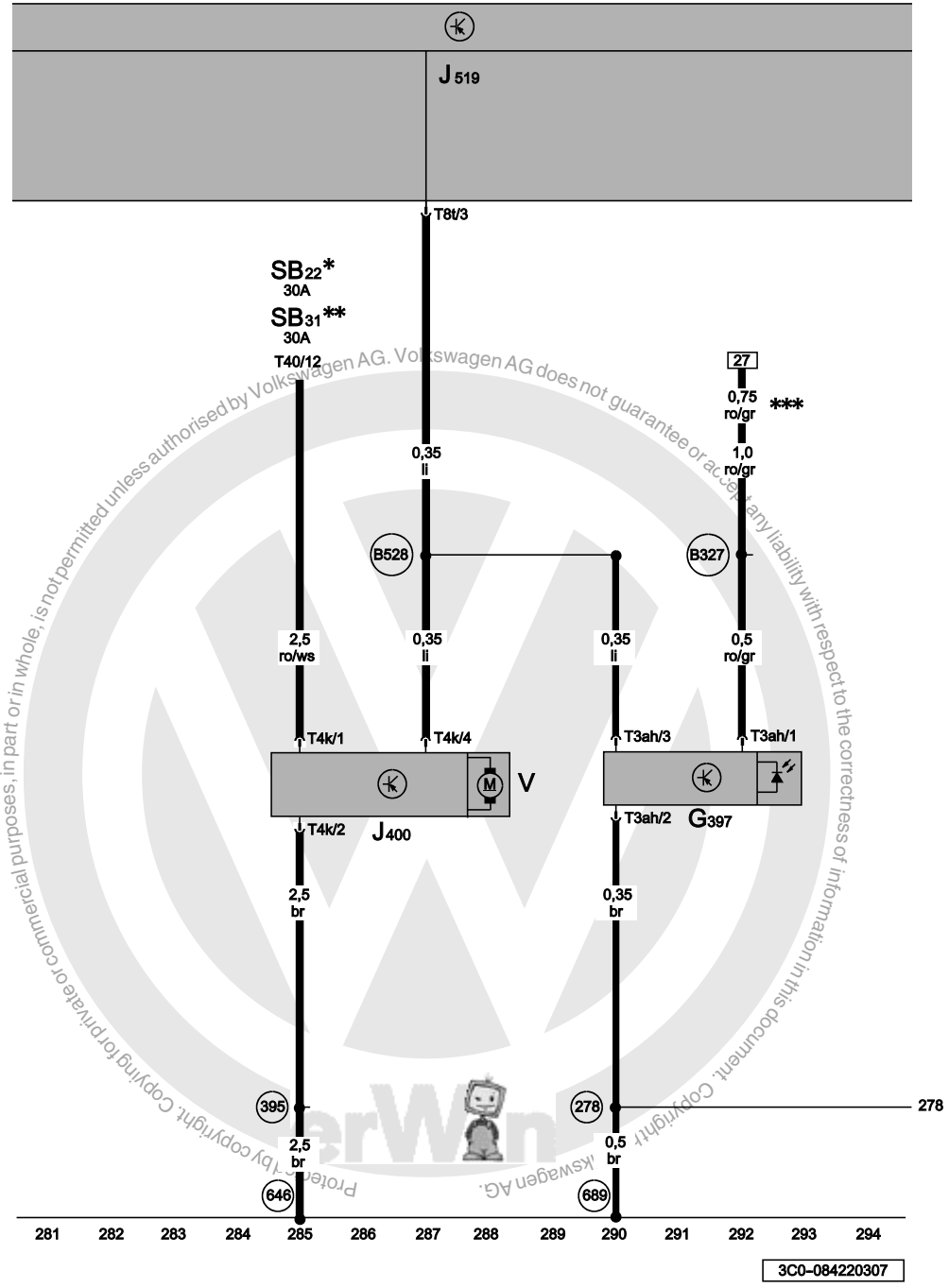


Rear window wiper motor, washer pump, relay 1 and 2 for double washer pump, windscreen and rear window washer pump

J519	Onboard supply control unit
J729	Double washer pump relay 1
J730	Double washer pump relay 2
T2cl	2-pin connector
T2cm	2-pin connector
T4ax	4-pin connector
T6ap	6-pin connector, black
T10	10-pin connector, coupling point on left of rear lid
V5	Washer pump
V12	Rear window wiper motor
V59	Windscreen and rear window washer pump
B162	Connection (75a), in interior wiring harness
B479	Connection 15, in main wiring harness
B568	Connection 35, in main wiring harness
*	Only on saloon models
**	Only Variant models
***	Valid from May 2007

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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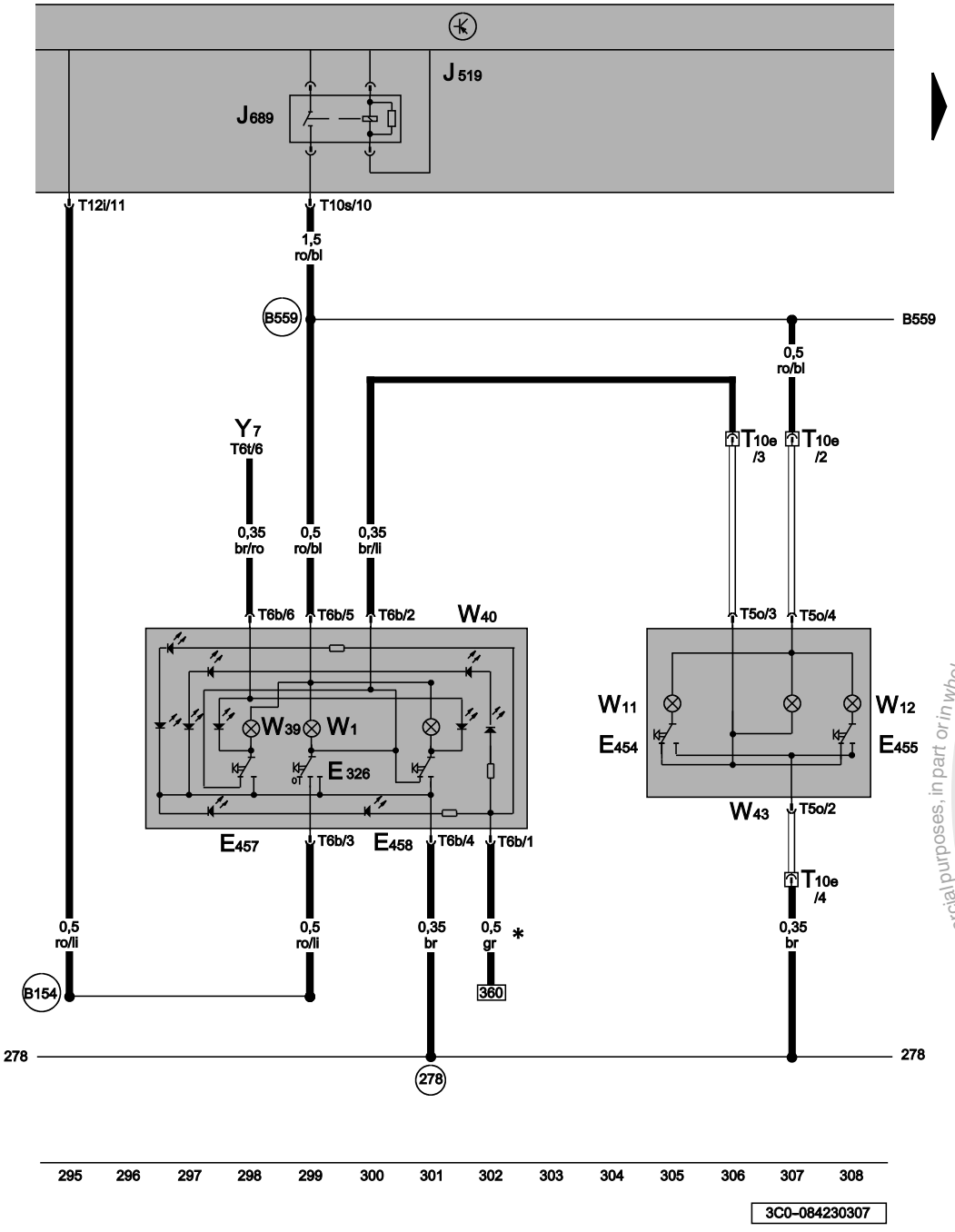


Rain and light detector sensor, wiper motor control unit

G397	Rain and light detection sensor
J400	Wiper motor control unit
J519	Onboard supply control unit
SB22	Fuse 22 on fuse holder B
SB31	Fuse 31 on fuse holder B
T3ah	3-pin connector, black
T4k	4-pin connector, black
T8t	8-pin connector, black
T40	40-pin connector, on E-box
V	Windscreen wiper motor
278	Earth connection 4, in interior wiring harness
395	Earth connection 30, in main wiring harness
646	Earth point 2, on bulkhead
689	Earth point, on front centre of roof
B327	Connection 13 (30a), in main wiring harness
B528	Connection 1 (LIN bus), in main wiring harness
*	Fuses in E-box low
**	Fuses in E-box high
***	Applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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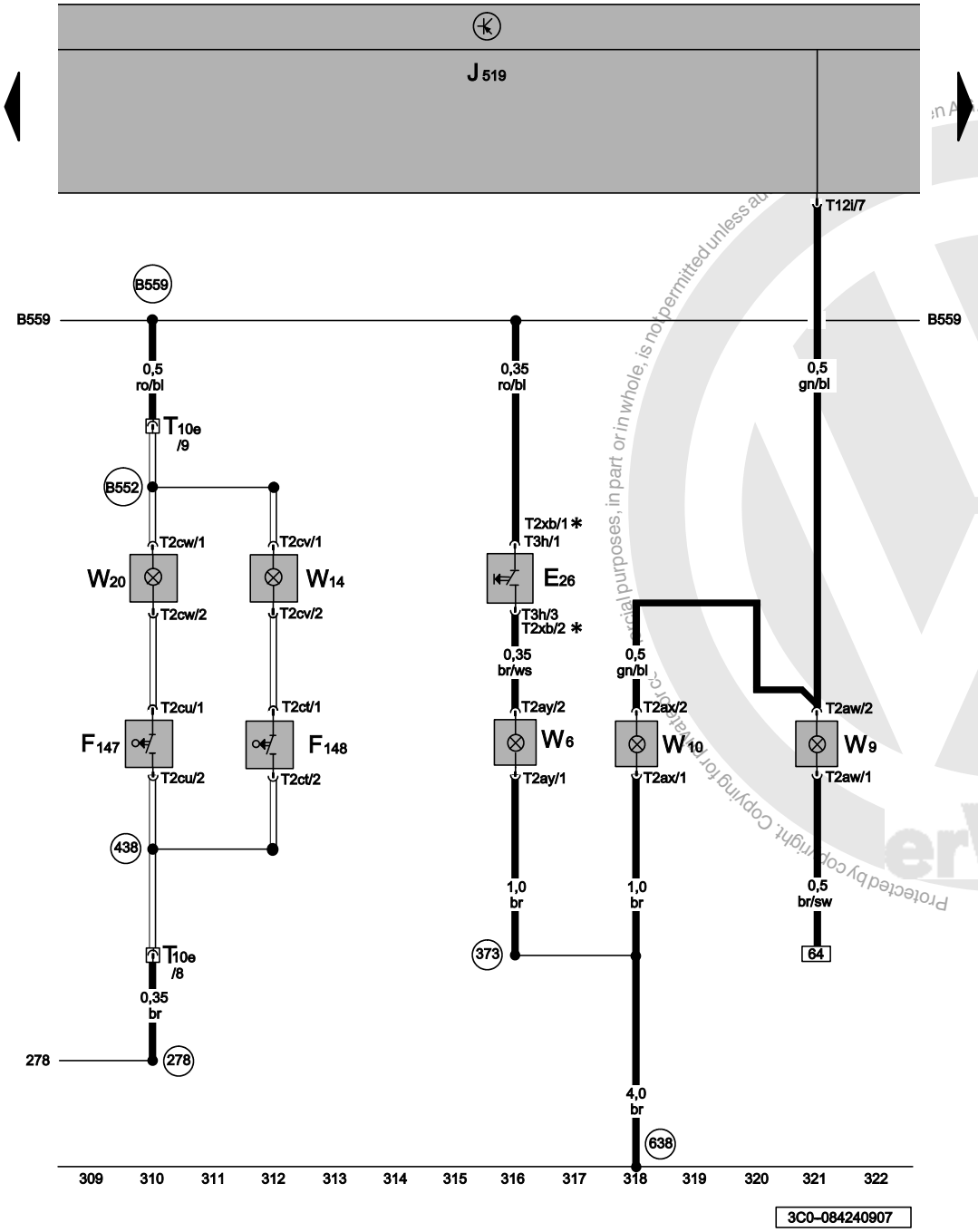


Front interior light, rear left reading light, rear right reading light, centre left reading light, centre right reading light, rear interior light

E326	Front interior light button
E454	Rear left reading light switch
E455	Rear right reading light switch 1
E457	Driver side reading light button
E458	Front passenger side reading light button
J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
T5o	5-pin connector
T6b	6-pin connector
T6t	6-pin connector
T10e	10-pin connector, blue, coupling point for roof wiring harness
T10s	10-pin connector, black
T12i	12-pin connector, black
W1	Front interior light
W11	Rear left reading light
W12	Rear right reading light
W39	Left centre reading light
W40	Right centre reading light
W43	Rear interior light
Y7	Automatic anti-dazzle interior mirror
278	Earth connection 4, in interior wiring harness
B154	Connection 1 (DCt), in interior wiring harness
B559	Connection 1 (30g), in main wiring harness
*	Only models with sliding sunroof
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/00000794.png" content-width="20pt" scaling="uniform"/>	Flexible printed circuit

ws	=	white
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br	=	brown
gn	=	green
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Glove compartment light switch, contact switch for vanity mirrors on driver and front passenger side

E26	Glove compartment light switch
F147	Contact switch for vanity mirror, driver side
F148	Contact switch for vanity mirror, front passenger side
J519	Onboard supply control unit
T2aw	2-pin connector, black
T2ax	2-pin connector, black
T2ay	2-pin connector
T2ct	2-pin connector
T2cu	2-pin connector
T2cv	2-pin connector
T2cw	2-pin connector
T2xb	2-pin connector
T3h	3-pin connector
T10e	10-pin connector, blue, roof coupling point
T12i	12-pin connector, black
W6	Glove compartment light
W9	Left footwell light
W10	Right footwell light
W14	Illuminated vanity mirror, front passenger side
W20	Illuminated vanity mirror, driver side
278	Earth connection 4, in interior wiring harness
373	Earth connection 8, in main wiring harness
438	Earth connection 3, in roof wiring harness
638	Earth point, on right A-pillar
B552	Positive connection 2, in roof wiring harness
B559	Connection 1 (30g), in main wiring harness
*	Applicable from November 2007
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/rahmen.png"	Flexible printed circuit

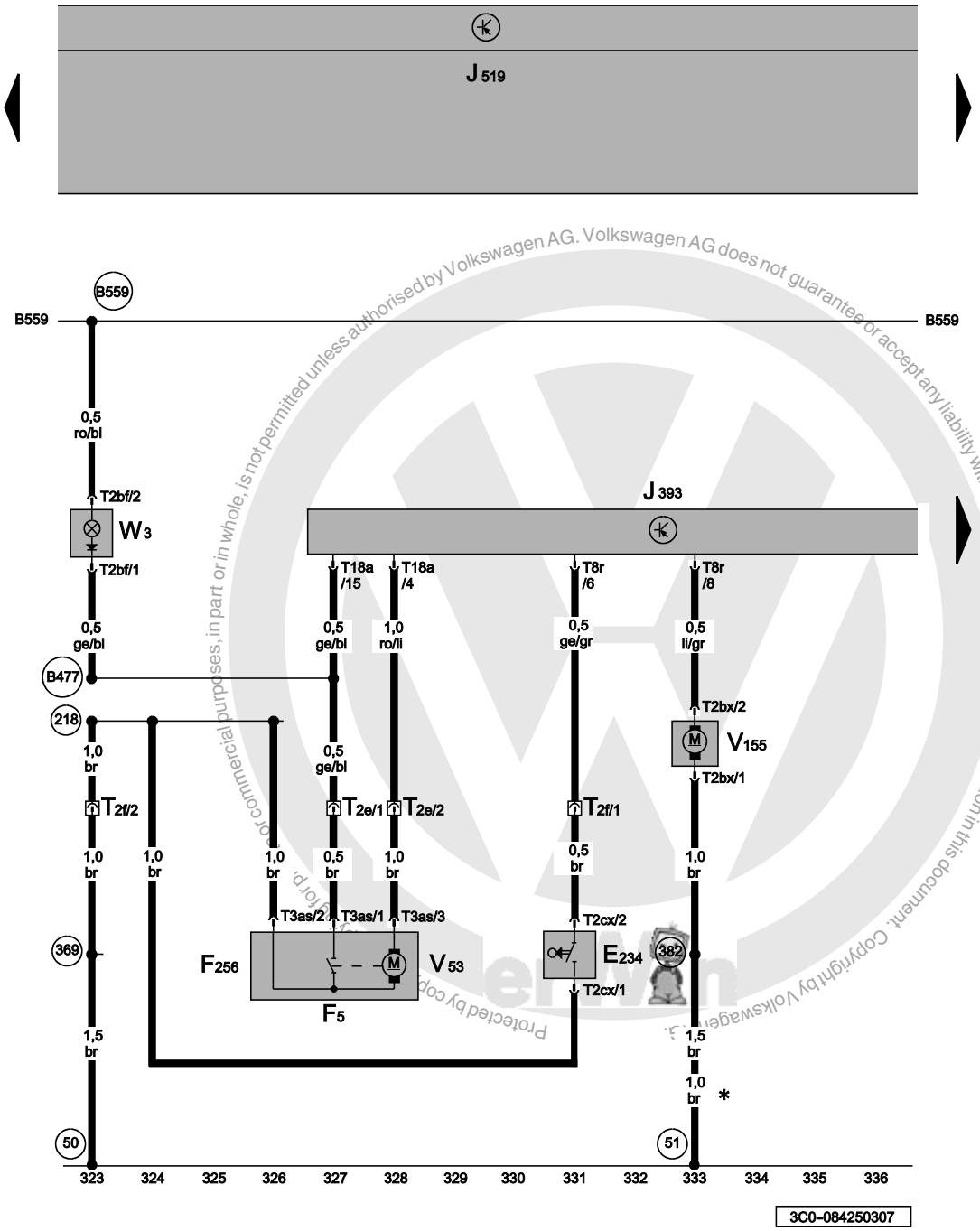
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or	=	orange
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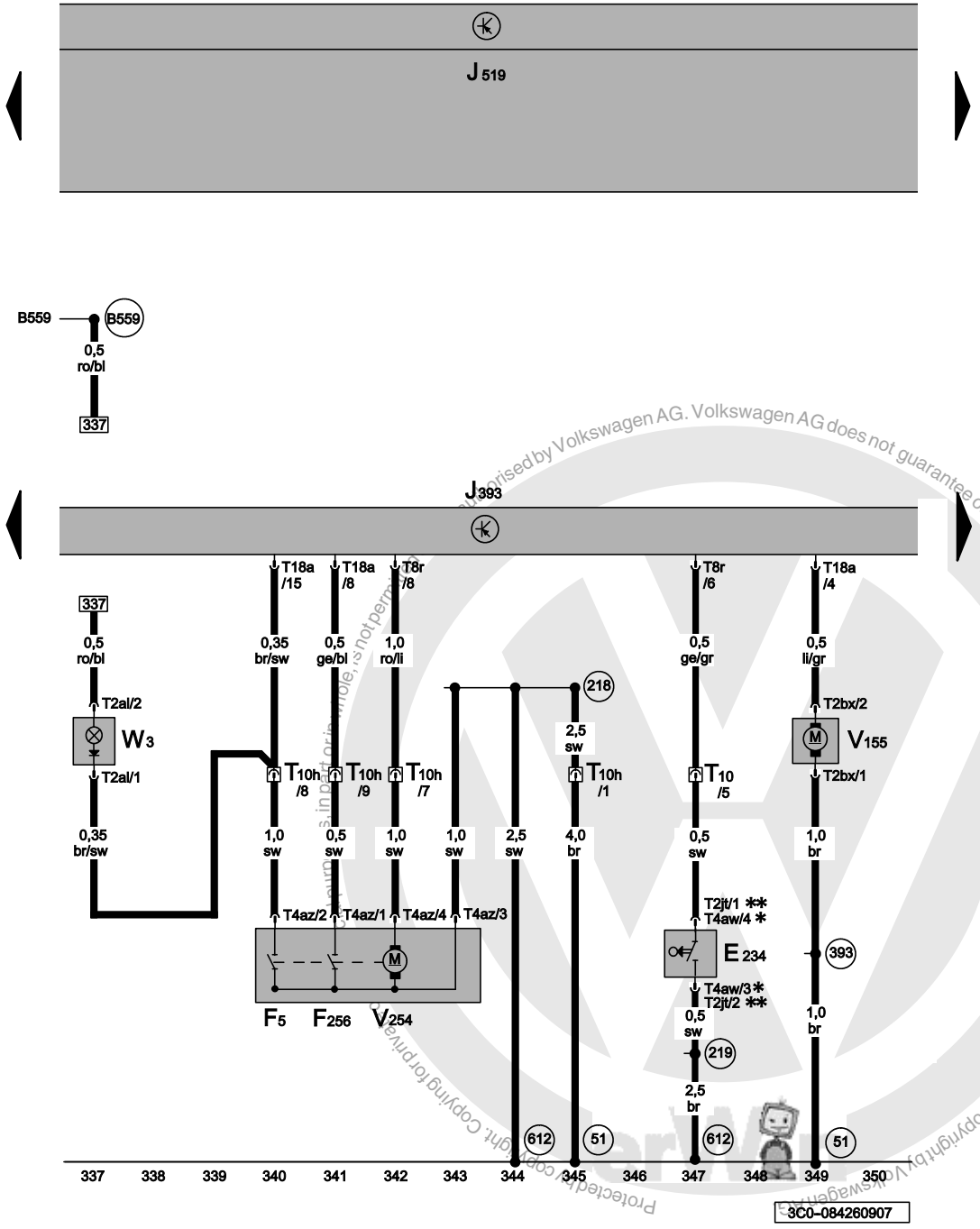


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Release button in rear lid handle (saloon), central locking motor in rear lid (saloon), tank filler flap locking motor (saloon), luggage compartment light (saloon)

E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2bf	2-pin connector
T2e	2-pin connector, coupling point, rear lid (saloon)
T2f	2-pin connector, coupling point, rear lid (saloon)
T2bx	2-pin connector
T2cx	2-pin connector
T3as	3-pin connector, rear lid lock (saloon)
T8r	8-pin connector
T18a	18-pin connector
V53	Rear lid central locking motor
V155	Tank filler flap locking motor
W3	Luggage compartment light
50	Earth point, on left in luggage compartment
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
382	Earth connection 17, in main wiring harness
B477	Connection 13, in main wiring harness
B559	Connection 1 (30g), in main wiring harness
*	Applicable from November 2006



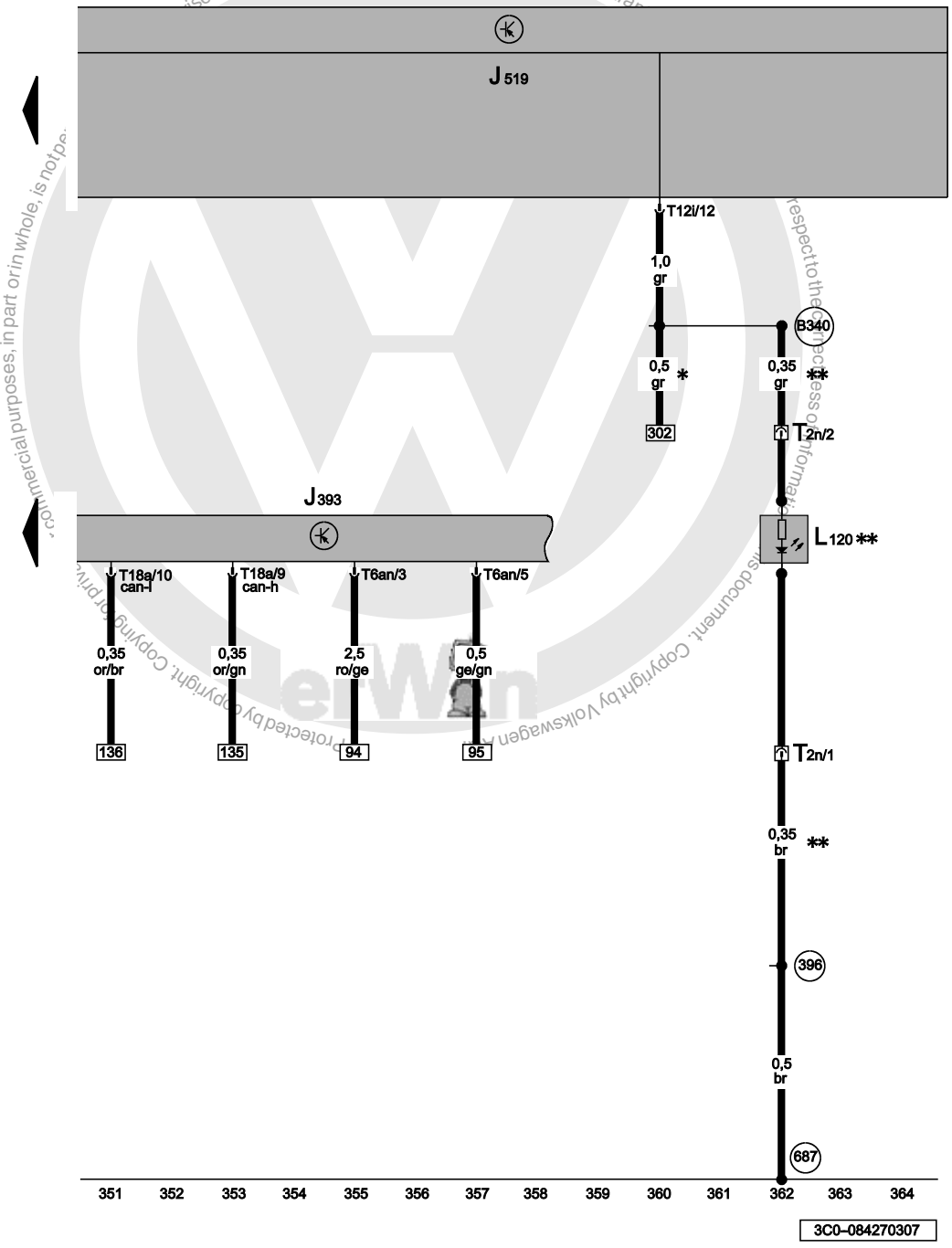
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sw = black
ro = red
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bl = blue
gr = grey
li = purple
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Rear lid lock unit (Variant), rear lid electric release motor (Variant), luggage compartment light (Variant), tank filler flap locking motor (Variant)

E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2al	2-pin connector
T2bx	2-pin connector
T2jt	2-pin connector
T4aw	4-pin connector
T4az	4-pin connector, rear lid lock (Variant)
T8r	8-pin connector
T10	10-pin connector
T10h	10-pin connector, coupling point, rear lid (Variant)
T18a	18-pin connector
V155	Tank filler flap locking motor
V254	Rear lid electric release motor
W3	Luggage compartment light
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
219	Earth connection 2, in rear lid wiring harness
393	Earth connection 28, in main wiring harness
612	Earth point, centre on rear lid
B559	Connection 1 (30g), in main wiring harness

* Applicable up to April 2007
** Valid from May 2007

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Central control unit for convenience system, bulb for stowage compartment light

J393	Convenience system central control unit
J519	Onboard supply control unit
L120	Storage compartment illumination bulb
T2n	2-pin connector
T6an	6-pin connector
T12i	12-pin connector, black
T18a	18-pin connector
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B340	Connection 1 (58d), in main wiring harness
*	Only models with sliding sunroof
**	Applicable to October 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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Radio and navigation system: RNS MFD2

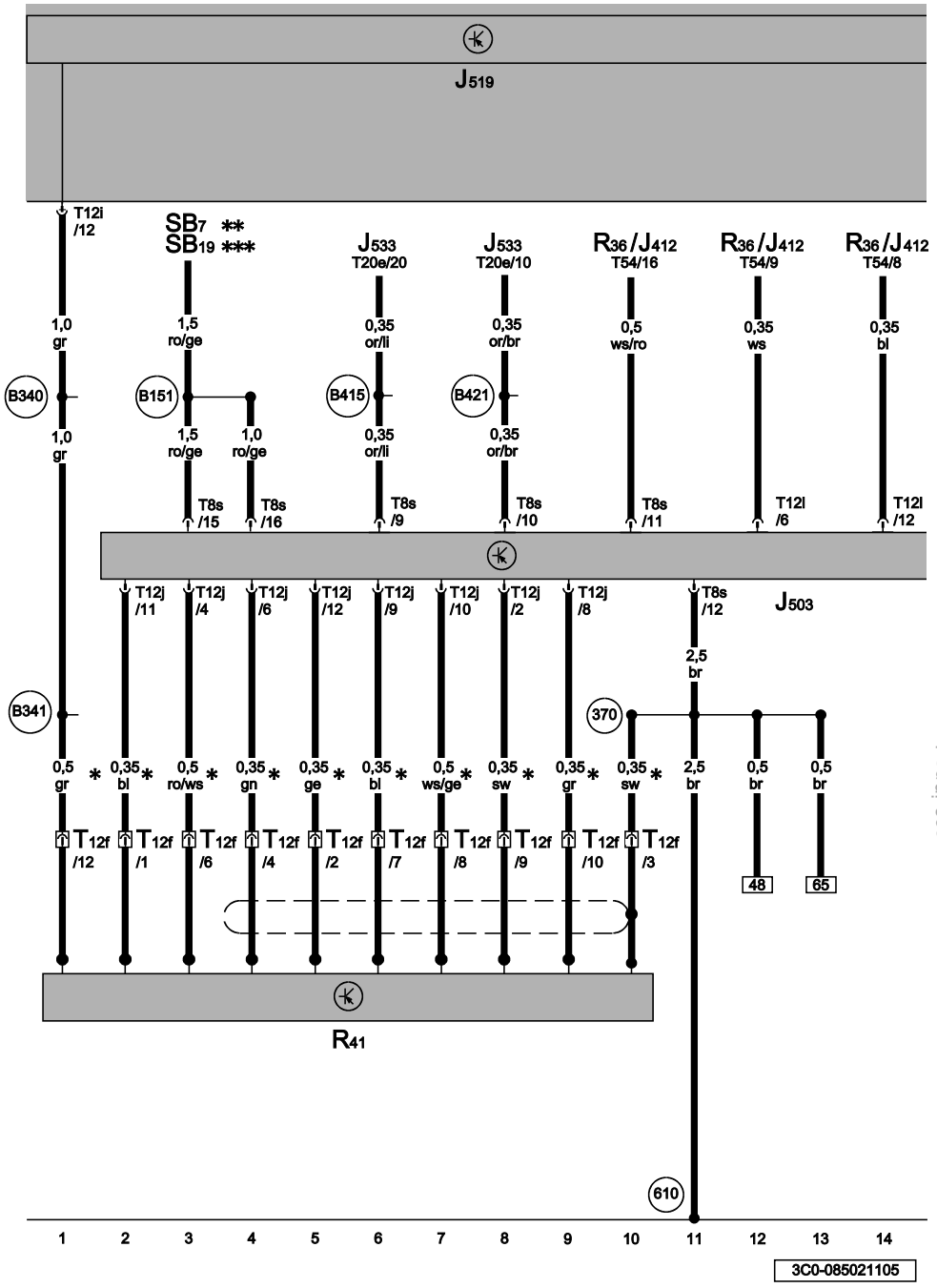
⇒ **CD changer**
⇒ **4 loudspeakers**
⇒ **8 loudspeakers**
From May 2005

Notes:
For information about
- Relay and fuse assignments
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information about
- Fault Finding Programs

⇒ Guided Fault Finding

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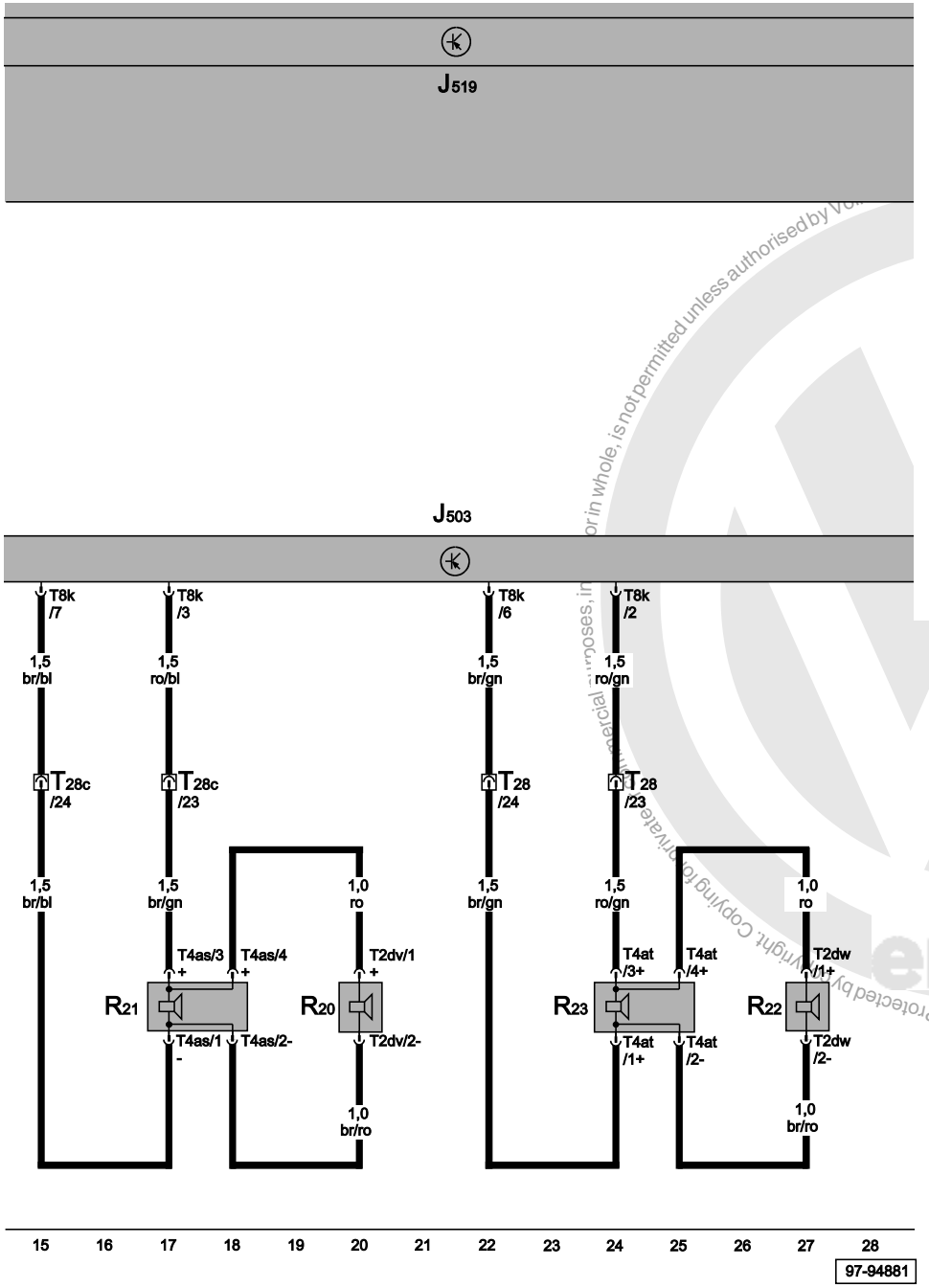


Voltage supply, control unit with display for radio and navigation system, CD changer

J412	Control unit for cellphone operating electronics
J503	Control unit with display for radio and navigation system
J533	Data bus diagnosis interface
J519	Onboard supply control unit
R36	Telephone transmitter and receiver unit
R41	CD changer
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T8s	8-pin connector, black
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector
T12l	12-pin connector
T20e	20-pin connector
T54	54-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), under centre console at front
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only on vehicles with preparation for external CD changer
**	Only on vehicles with E-box low
***	Only on vehicles with E-box high

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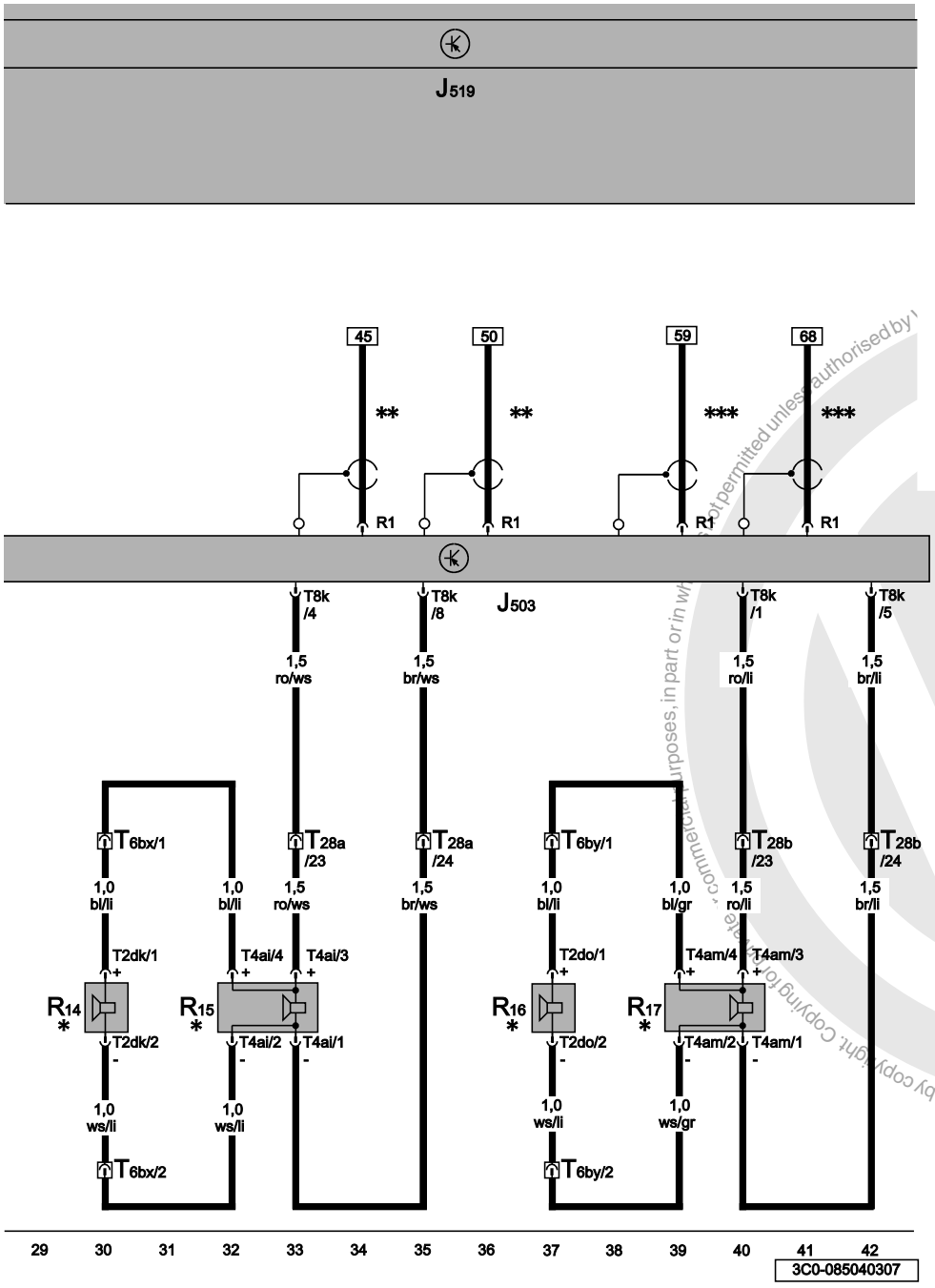


Control unit with display for radio and navigation system, front left and right treble loudspeaker and bass loudspeaker

J503	Control unit with display for radio and navigation system
J519	Onboard supply control unit
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T8k	8-pin connector, brown
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar

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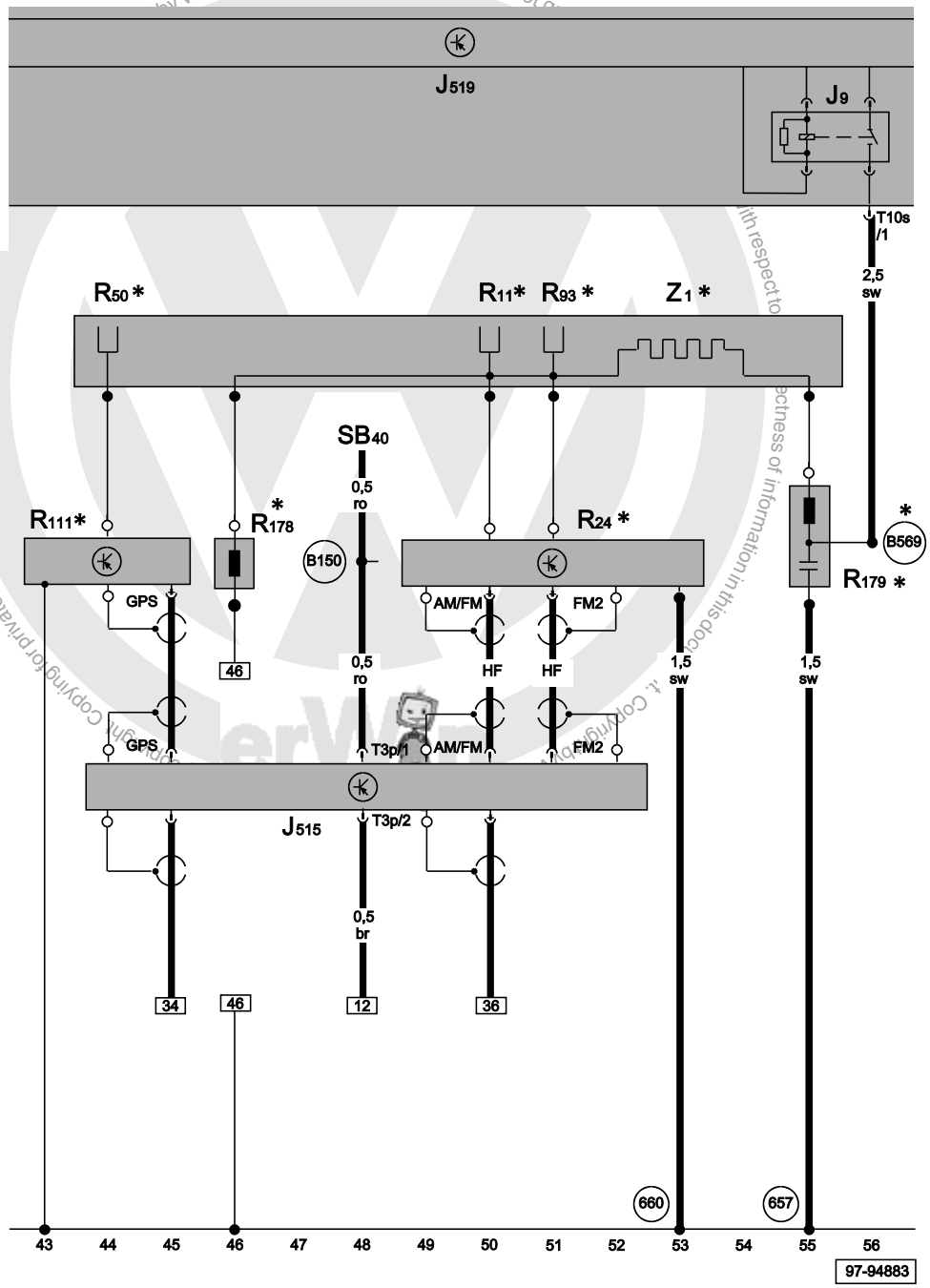


Control unit with display for radio and navigation system, rear left and right treble loudspeaker and bass loudspeaker, aerial connection

J503	Control unit with display for radio and navigation system
J519	Onboard supply control unit
R1	Aerial connection
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T8k	8-pin connector, brown
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
*	Depends on equipment
**	Only on saloon models
***	Only on estate models

ws	=	white
sw	=	black
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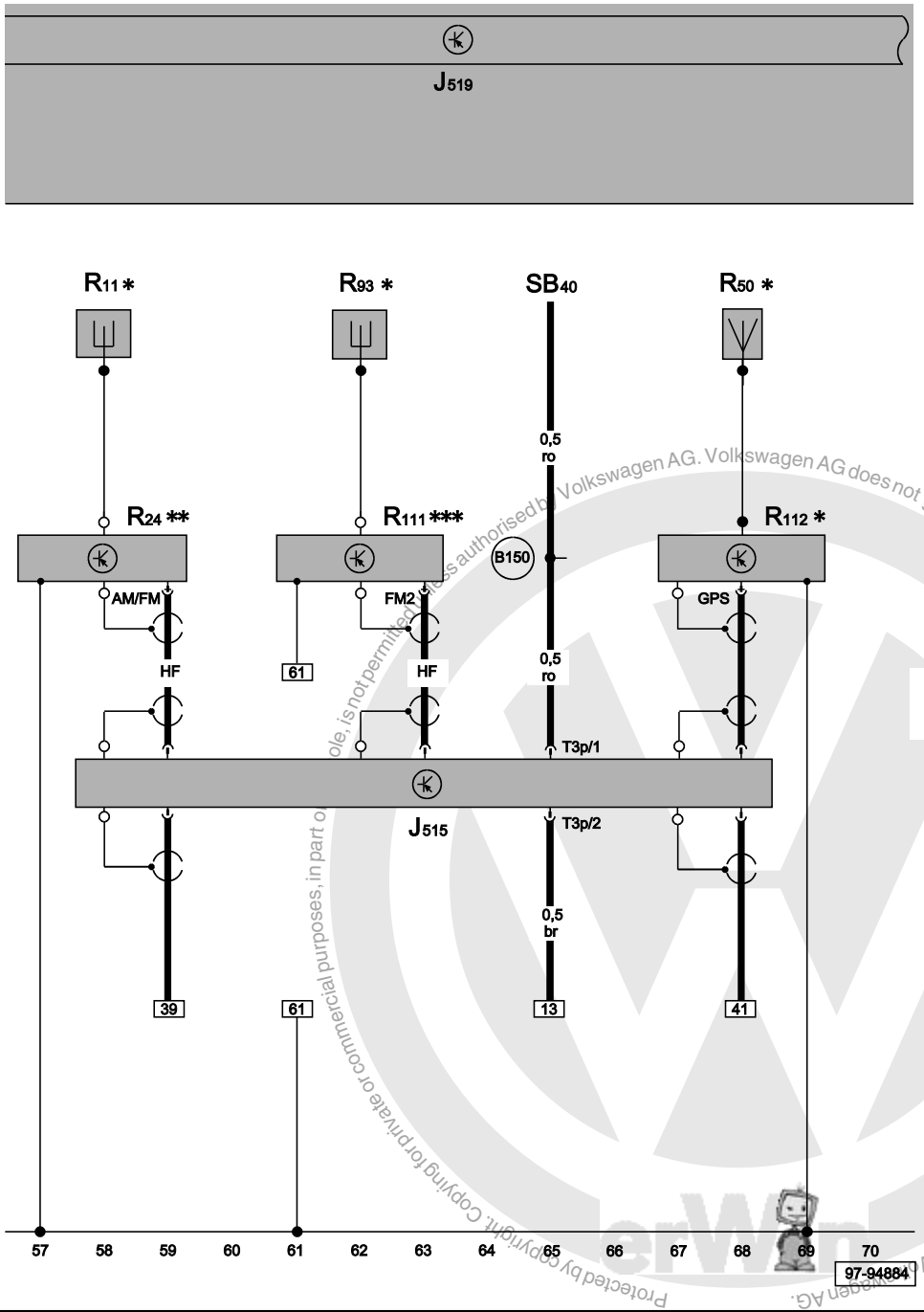
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Aerials (saloon), aerial amplifier, frequency filter for frequency modulation, control unit for aerial selection

J9	Heated rear window relay
J515	Aerial selection control unit
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R178	Frequency filter for frequency modulation (FM) in negative wire
R179	Frequency filter for frequency modulation (FM) in positive wire
SB40	Fuse 40 on fuse holder B
T3p	3-pin connector
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B150	Positive connection 2 (30a), in interior wiring harness
B569	Connection 36, in main wiring harness
*	Only on saloon models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink



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bl = blue
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Aerial (estate), aerial amplifier, control unit for aerial selection

J515	Aerial selection control unit
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
SB40	Fuse 40 on fuse holder B
T3p	3-pin connector
B150	Positive connection 2 (30a), in interior wiring harness
*	Only on estate models
**	Only on estate models, in left C-pillar
***	Only on estate models, in right C-pillar

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Fuse concept, 1 rear battery, petrol engine

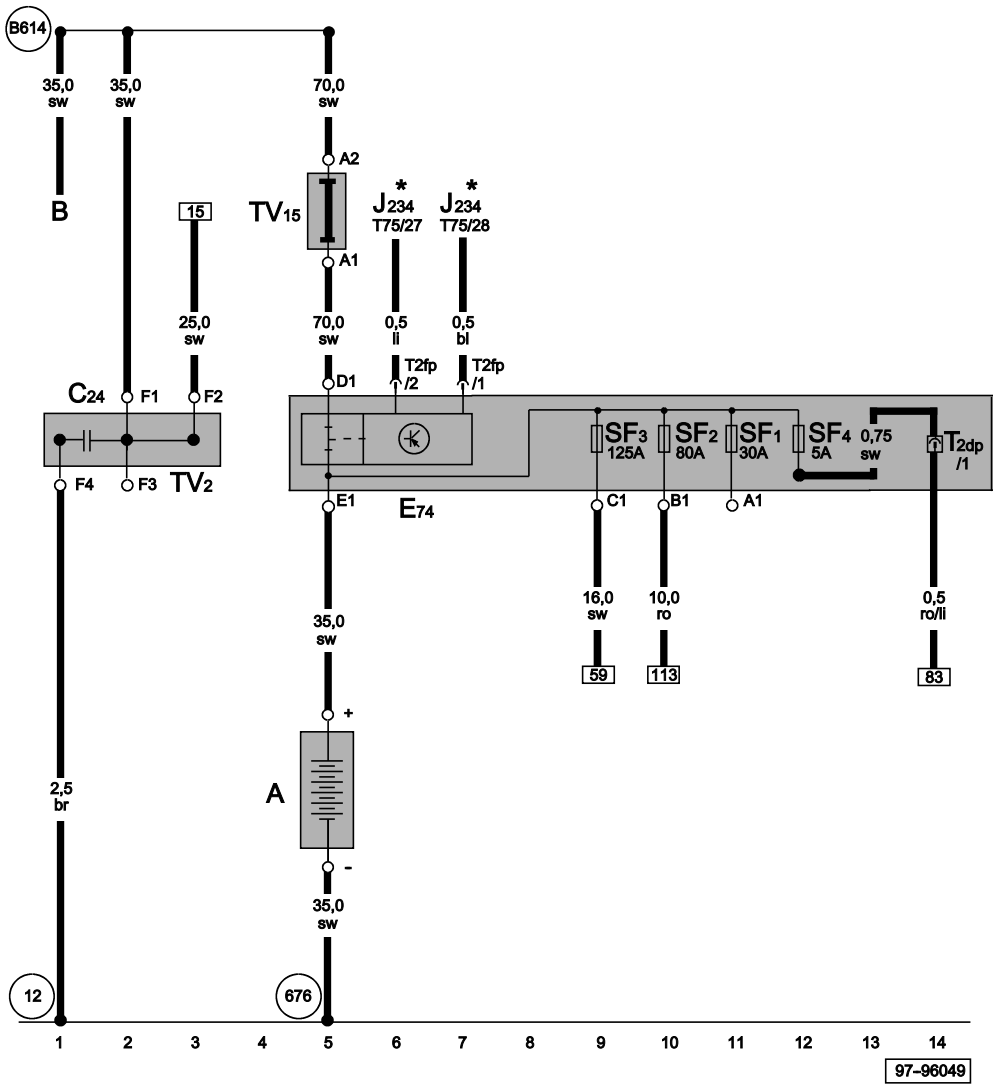
⇒ **Fuse SA, in E-box high**
⇒ **Fuse SB, in E-box high**
From May 2005

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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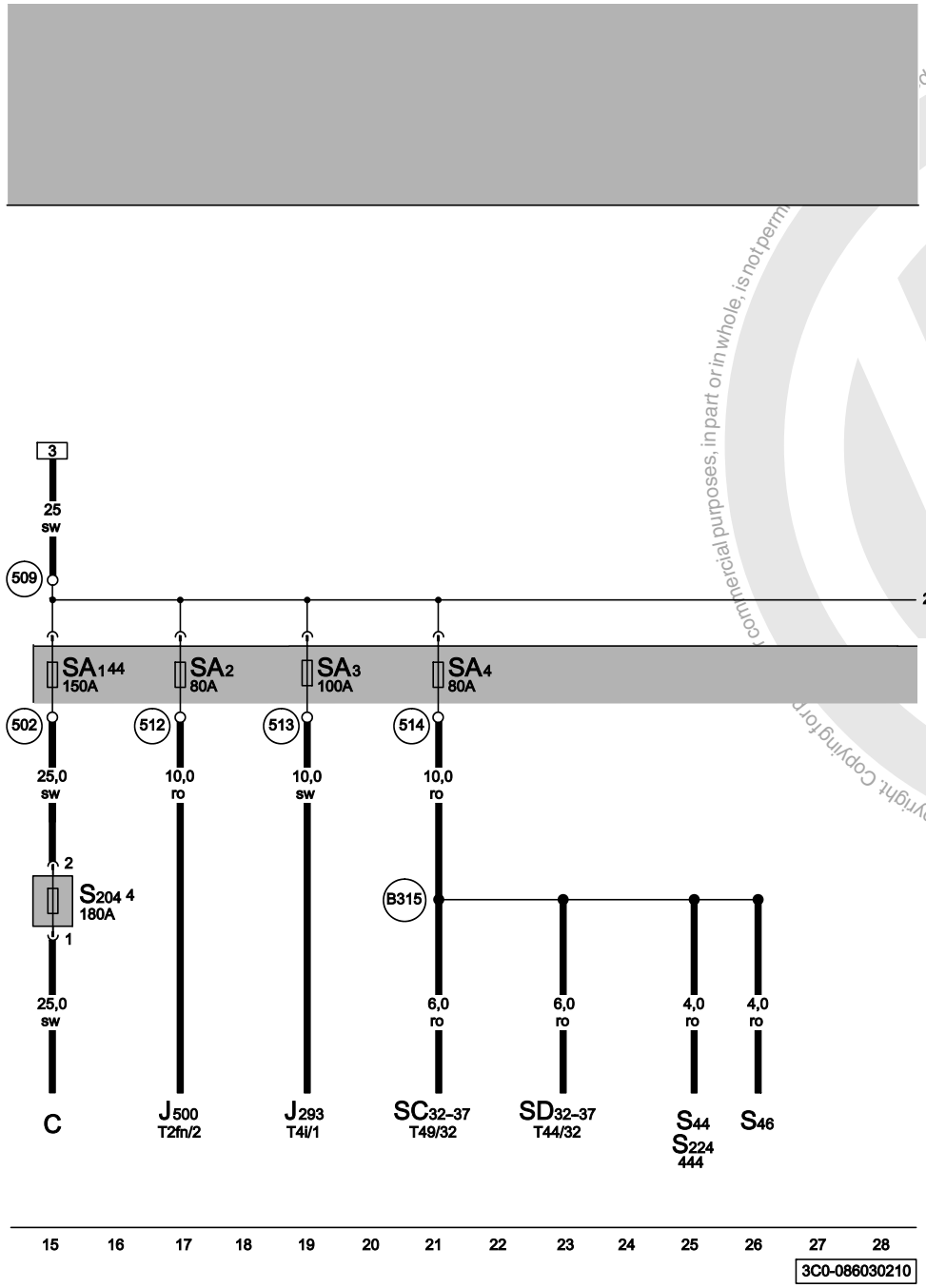


Battery, main battery switch and isolation switch, terminal 30 wiring junction, wiring connector, suppression filter

A	Battery
B	Starter
C24	Suppression filter
E74	Battery master/isolator switch
J234	Airbag control unit
SF1	Fuse 1 on fuse holder F, on left in luggage compartment
SF2	Fuse 2 on fuse holder F, on left in luggage compartment
SF3	Fuse 3 on fuse holder F, on left in luggage compartment
SF4	Fuse 4 on fuse holder F, on left in luggage compartment
T2dp	2-pin connector, black, coupling connector, in main fuse box
T2fp	2-pin connector, purple, in main fuse box
T75	75-pin connector
TV2	Terminal 30 wiring junction
TV15	Wiring connector
12	Earth point, on left in engine compartment
676	Earth point 2, on left in luggage compartment
B614	Connection 23 (30a), in main wiring harness
*	Only models with airbag control unit 16 channel

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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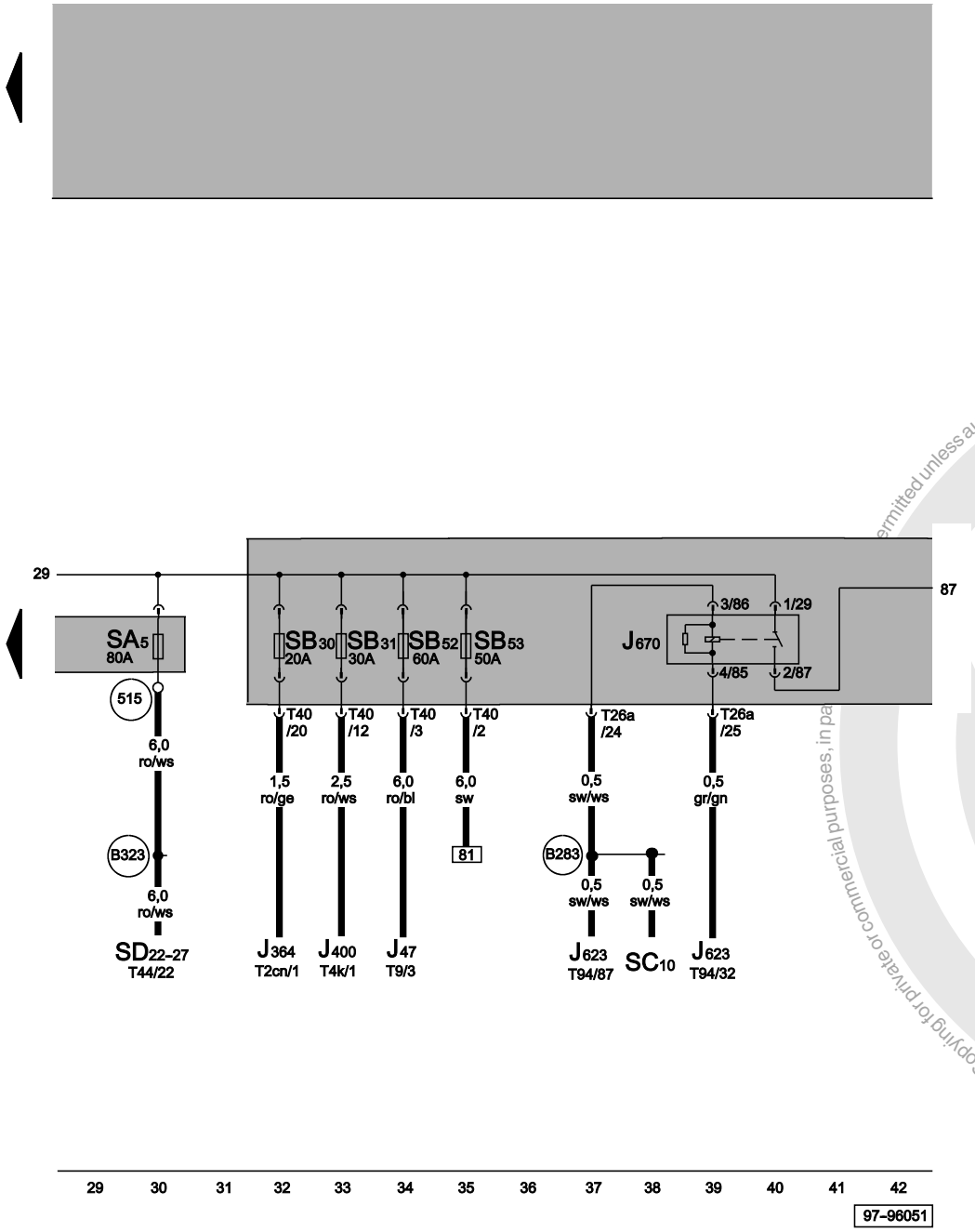


SA fuses

C	Alternator
J293	Radiator fan control unit
J500	Power steering control unit
S44	Driver seat adjustment thermal fuse 1, on left under dash panel
S46	Front passenger seat adjustment thermal fuse 1
S204	Fuse 1 (30)
S224	Fuse in fuse holder on left under dash panel
SA1	Fuse 1 on fuse holder A
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T2fn	2-pin connector
T4i	4-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
502	Threaded connection 1 (30a) on relay plate
509	Threaded connection 1 (29), on E-box
512	Threaded connection 2 (30a) on relay plate
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B315	Connection 1 (30a), in main wiring harness
*	Only models with 180 A alternator
**	Only models with 140 A alternator
***	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
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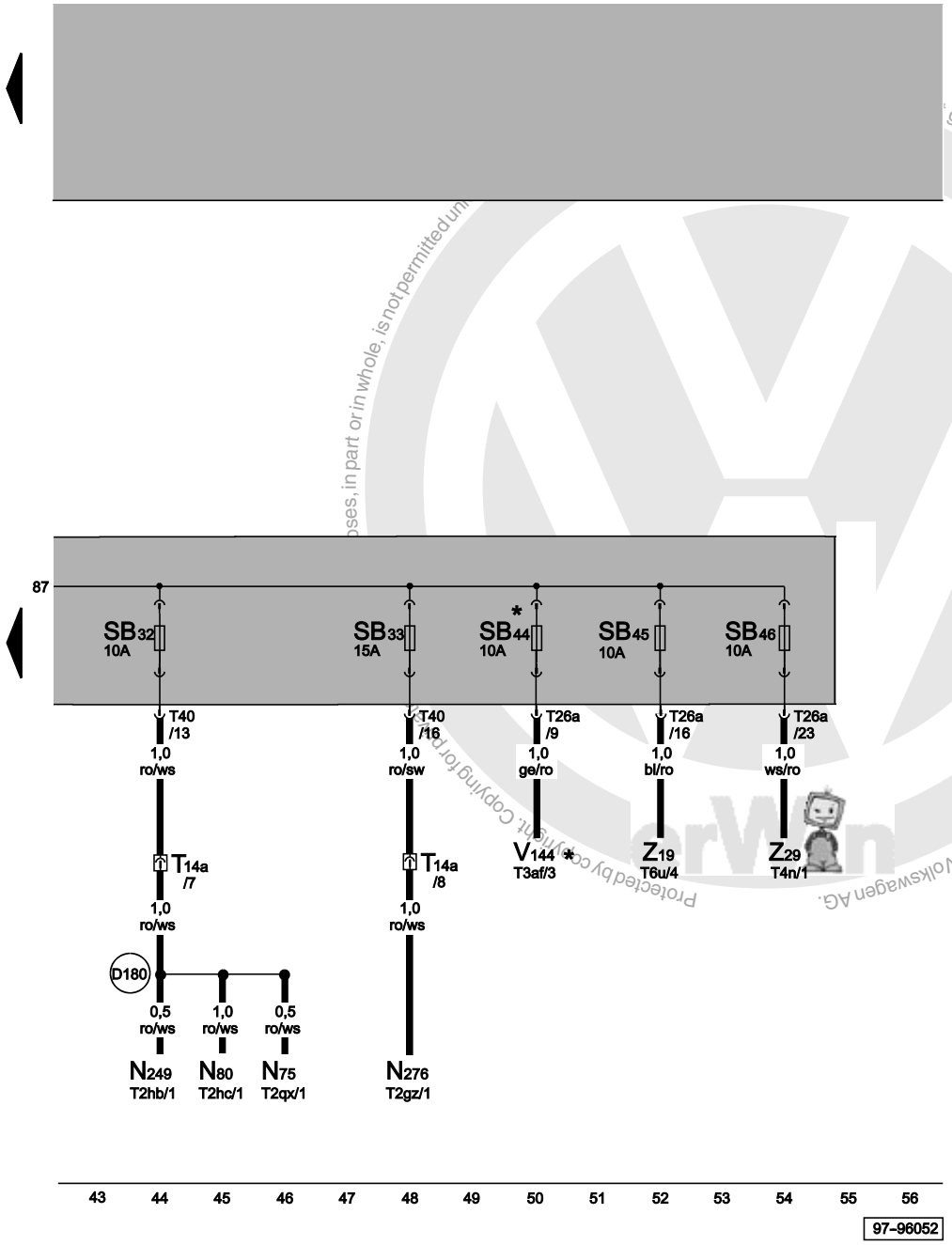


SA fuses, SB fuses, Motronic current supply relay 2

J47	Heated windscreen relay
J364	Auxiliary heater control unit
J400	Wiper motor control unit
J623	Engine control unit
J670	Motronic current supply relay 2
SA5	Fuse 5 on fuse holder A
SB30	Fuse 30 on fuse holder B
SB31	Fuse 31 on fuse holder B
SB52	Fuse 52 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC10	Fuse 10 on fuse holder C
SD	Fuse on fuse holder D, see fitting locations
T2cn	2-pin connector
T4k	4-pin connector
T9	9-pin connector
T26a	26-pin connector, on E-box
T40	40-pin connector, under E-box, in engine compartment
T44	44-pin connector on right of dash panel
T94	94-pin connector
515	Threaded connection 5 (30a) on relay plate
B283	Connection 7 (15a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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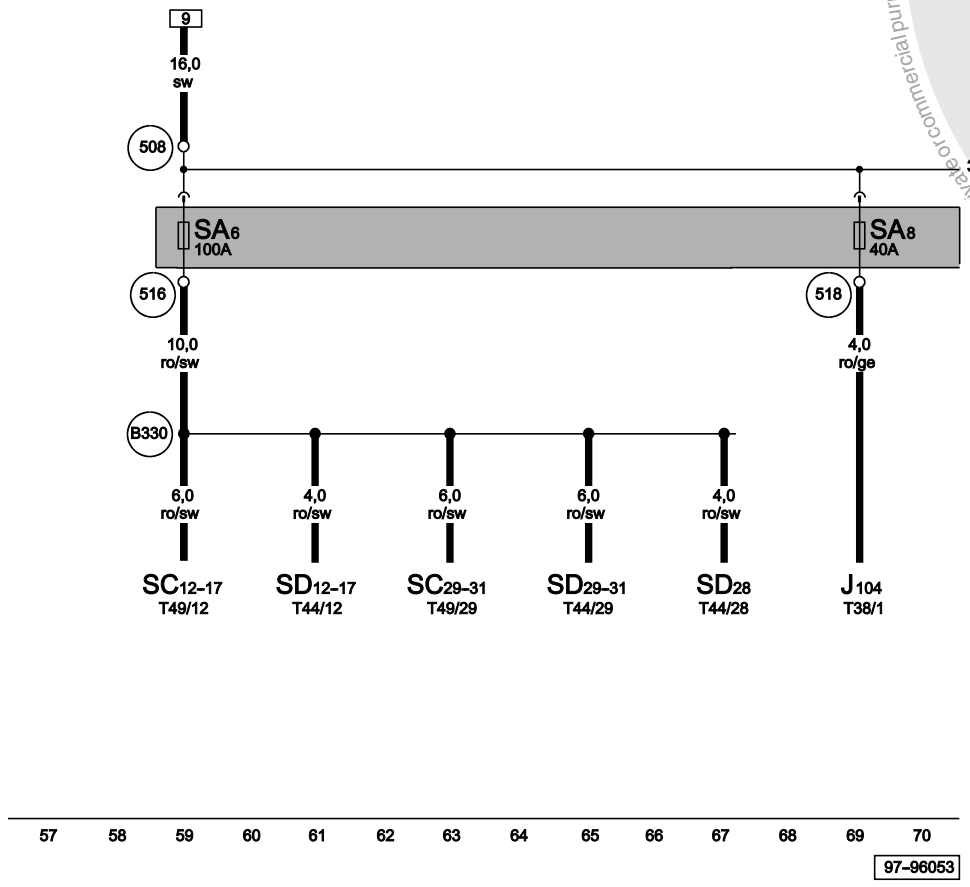
ws = white
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SB fuses

N75	Charge pressure control solenoid valve
N80	Activated charcoal filter solenoid valve 1
N249	Turbocharger air recirculation valve
N276	Fuel pressure regulating valve
SB32	Fuse 32 on fuse holder B
SB33	Fuse 33 on fuse holder B
SB44	Fuse 44 on fuse holder B
SB45	Fuse 45 on fuse holder B
SB46	Fuse 46 on fuse holder B
T2gz	2-pin connector
T2hb	2-pin connector
T2hc	2-pin connector
T2qx	2-pin connector
T3af	3-pin connector
T4n	4-pin connector
T6u	6-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector, on E-box
T40	40-pin connector, under E-box, in engine compartment
V144	Fuel system diagnostic pump
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D180	Connection (87a), in engine compartment wiring harness
*	Only models with engine code BLV

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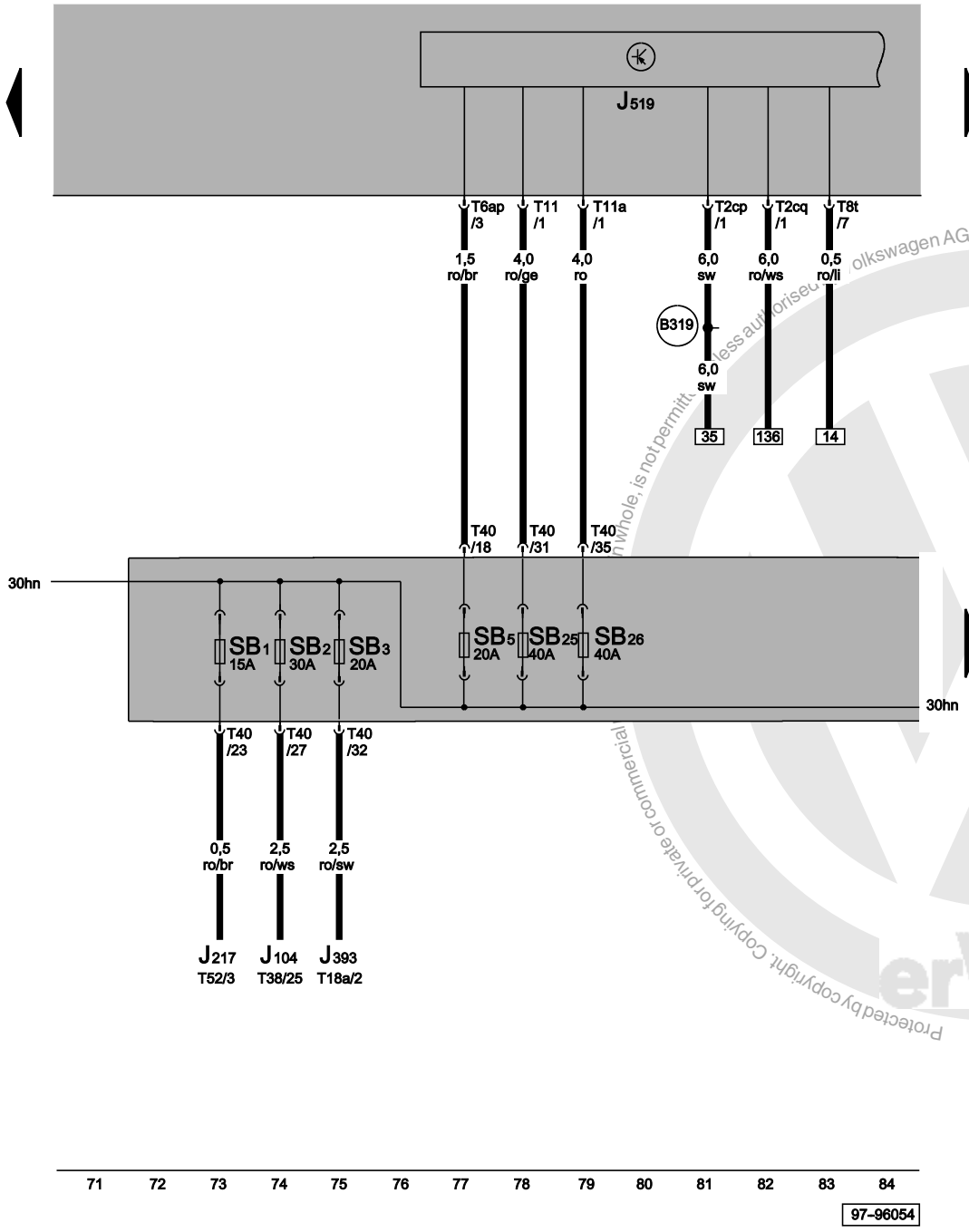


SA fuses

J104	ABS control unit
SA6	Fuse 6 on fuse holder A
SA8	Fuse 8 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
SD28	Fuse 28 on fuse holder D
T38	38-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
508	Screw connection (30) on E-box
516	Threaded connection 6 (30a) on relay plate
518	Threaded connection 8 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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Onboard supply control unit, SB-fuses

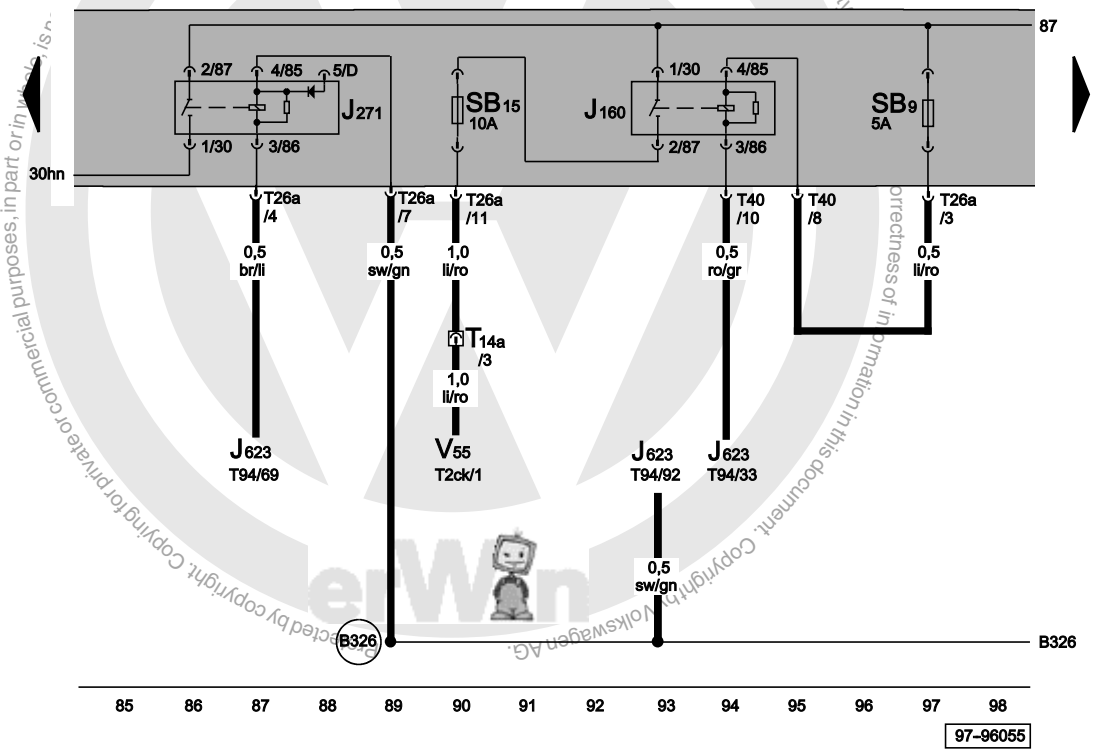
J104	ABS control unit
J217	Automatic gearbox control unit
J393	Convenience system central control unit
J519	Onboard supply control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
SB3	Fuse 3 on fuse holder B
SB5	Fuse 5 on fuse holder B
SB25	Fuse 25 on fuse holder B
SB26	Fuse 26 on fuse holder B
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T6ap	6-pin connector, black
T8t	8-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T18a	18-pin connector
T38	38-pin connector
T40	40-pin connector, under E-box, in engine compartment
T52	52-pin connector
B319	Connection 5 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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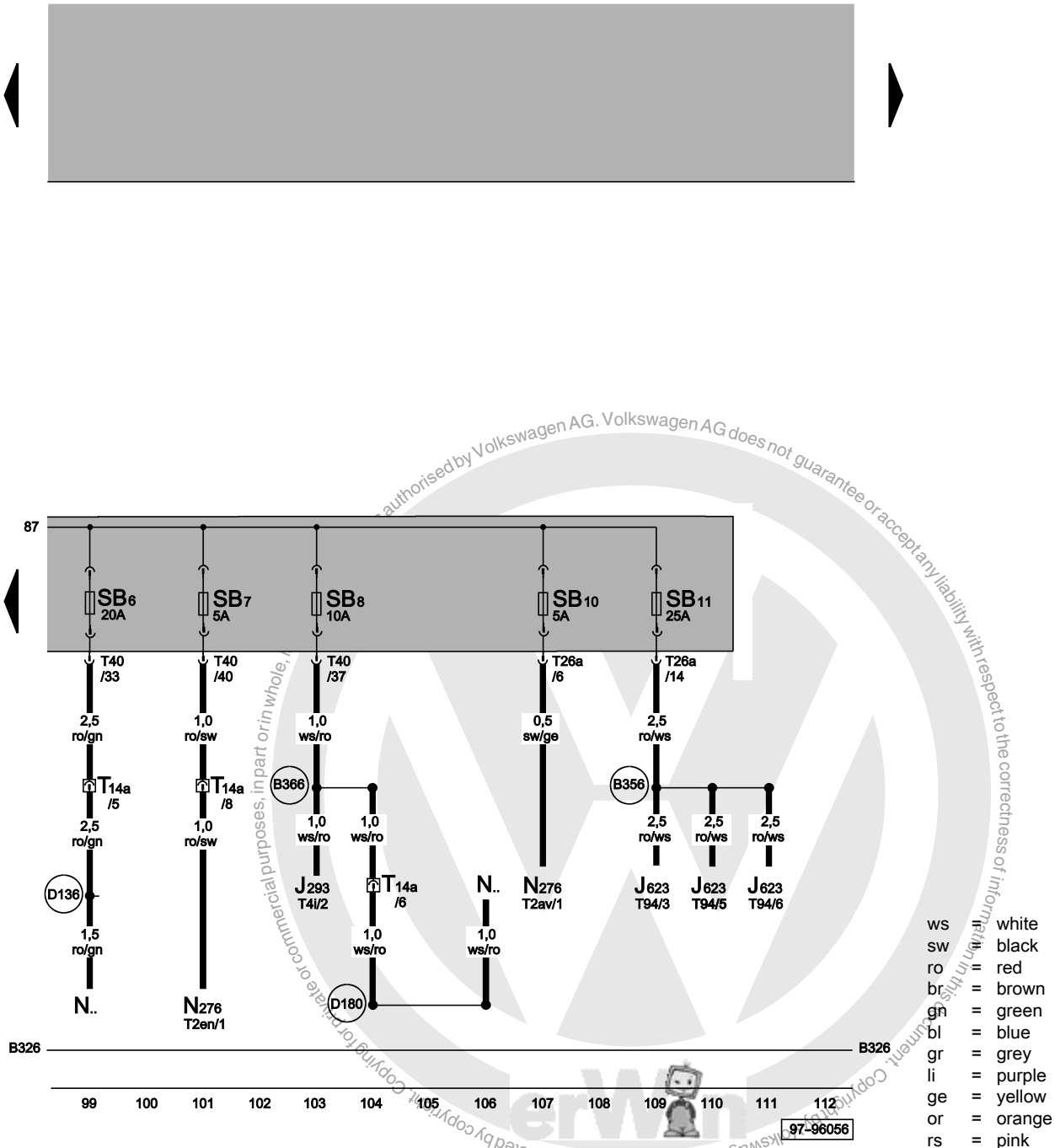
Circulation pump relay, Motronic current supply relay

J160	Circulation pump relay
J271	Motronic current supply relay
J623	Engine control unit
SB9	Fuse 9 on fuse holder B
SB15	Fuse 15 on fuse holder B
T2ck	2-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector, on E-box
T40	40-pin connector, under E-box, in engine compartment
T94	94-pin connector
V55	Circulation pump
B326	Connection 12 (30a), in main wiring harness



ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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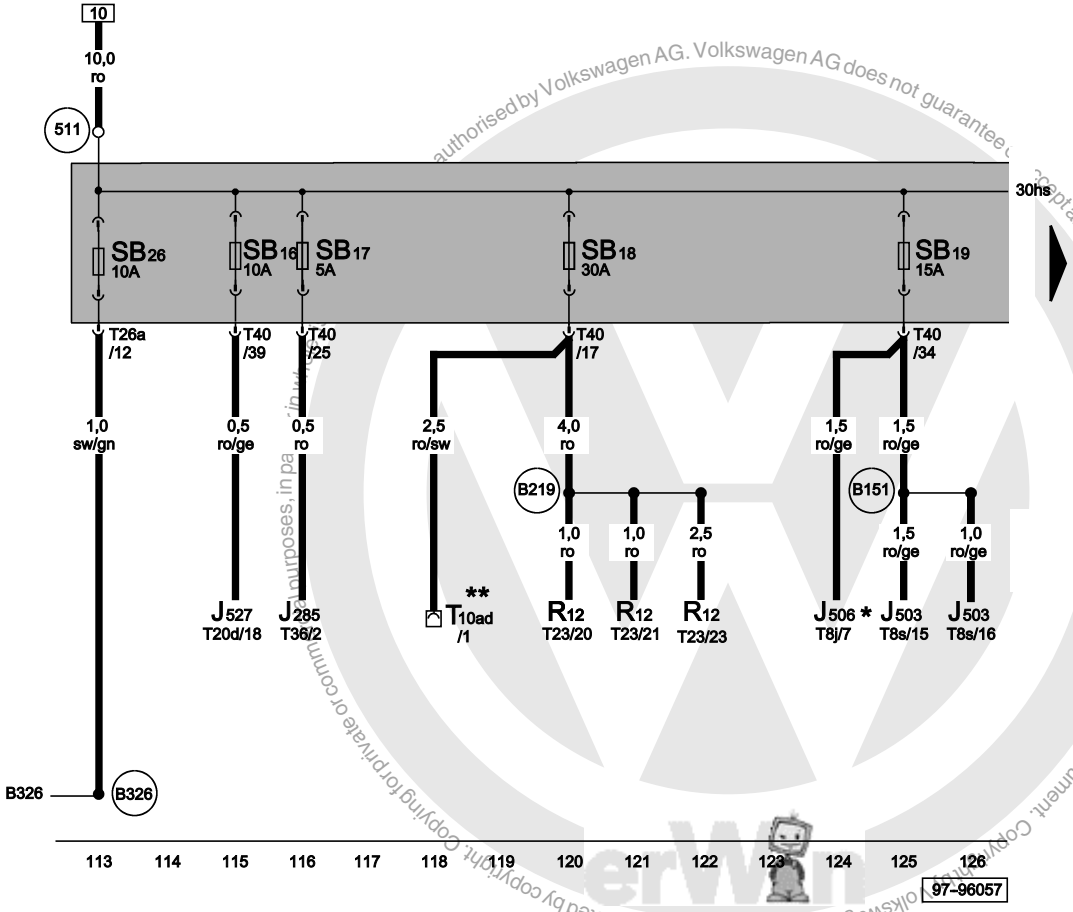


ws = white
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SB fuses

J293	Radiator fan control unit
J623	Engine control unit
N	Ignition coils with final output stages for cylinders 1-4
N276	Fuel pressure regulating valve
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB8	Fuse 8 on fuse holder B
SB10	Fuse 10 on fuse holder B
SB11	Fuse 11 on fuse holder B
T2av	2-pin connector
T2en	2-pin connector
T4i	4-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector, on E-box
T40	40-pin connector, under E-box, in engine compartment
T94	94-pin connector
B356	Connection 7 (87a), in main wiring harness
B366	Connection 17 (87a), in main wiring harness
D136	Positive connection 2 (15a), in engine compartment wiring harness
D180	Connection (87a), in engine compartment wiring harness
*	Only models with engine code BLV

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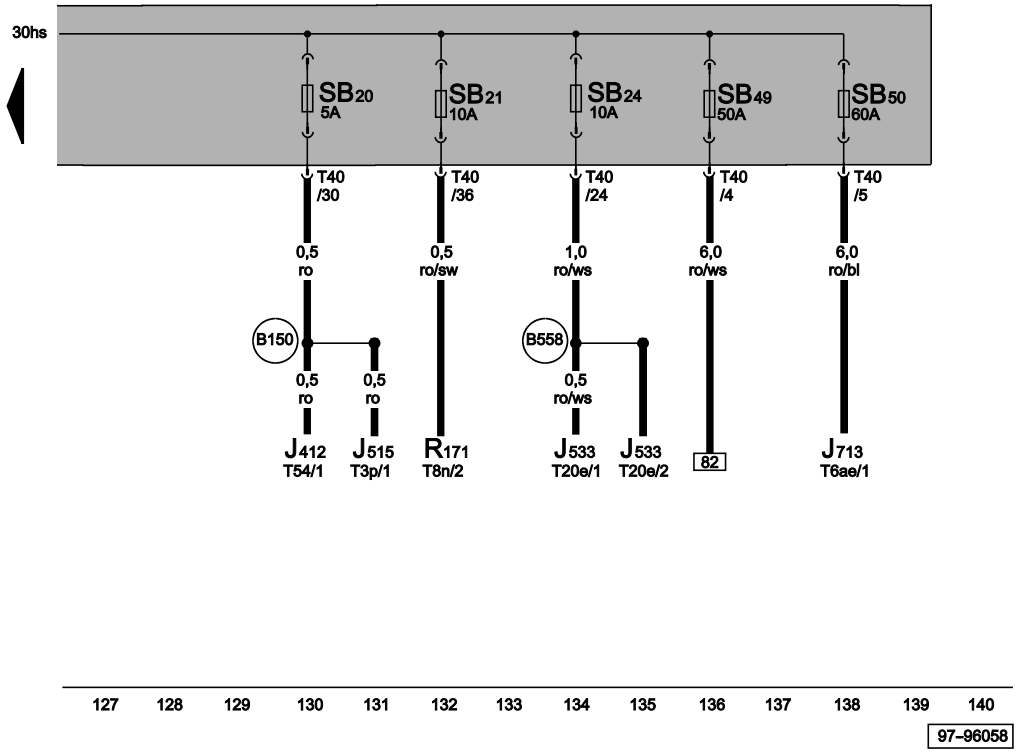
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SB fuses

J285	Control unit in dash panel insert
J503	Control unit with display for radio and navigation
J506	Control unit with display for TV, radio, navigation system
J527	Steering column electronics control unit
R12	Amplifier
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
SB26	Fuse 26 on fuse holder B
T8j	8-pin connector
T8s	8-pin connector
T10ad	10-pin connector
T20d	20-pin connector
T23	23-pin connector
T26a	26-pin connector, on E-box
T40	40-pin connector, under E-box, in engine compartment
511	Threaded connection 2 (30), on E-box
B151	Positive connection 3 (30a), in interior wiring harness
B219	Positive connection 4 (30a), in interior wiring harness
B326	Connection 12 (30a), in main wiring harness
*	Only models with engine code BLV
**	wire for special installation





SB fuses

J412	Control unit for mobile telephone operating electronics
J515	Aerial selection control unit
J533	Data bus diagnosis interface
J713	Second battery charging circuit relay
R171	Digital TV tuner
SB20	Fuse 20 on fuse holder B
SB21	Fuse 21 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB50	Fuse 50 on fuse holder B
T3p	3-pin connector
T8n	8-pin connector
T6ae	6-pin connector
T20e	20-pin connector
T40	40-pin connector, under E-box, in engine compartment
T54	54-pin connector
B150	Positive connection 2 (30a), in interior wiring harness
B558	Connection 22 (30a), in main wiring harness

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Fuse concept, 1 battery

⇒ **Fuses SC, on left in dash panel**

⇒ **Fuses SD, on right in dash panel**

From May 2005

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

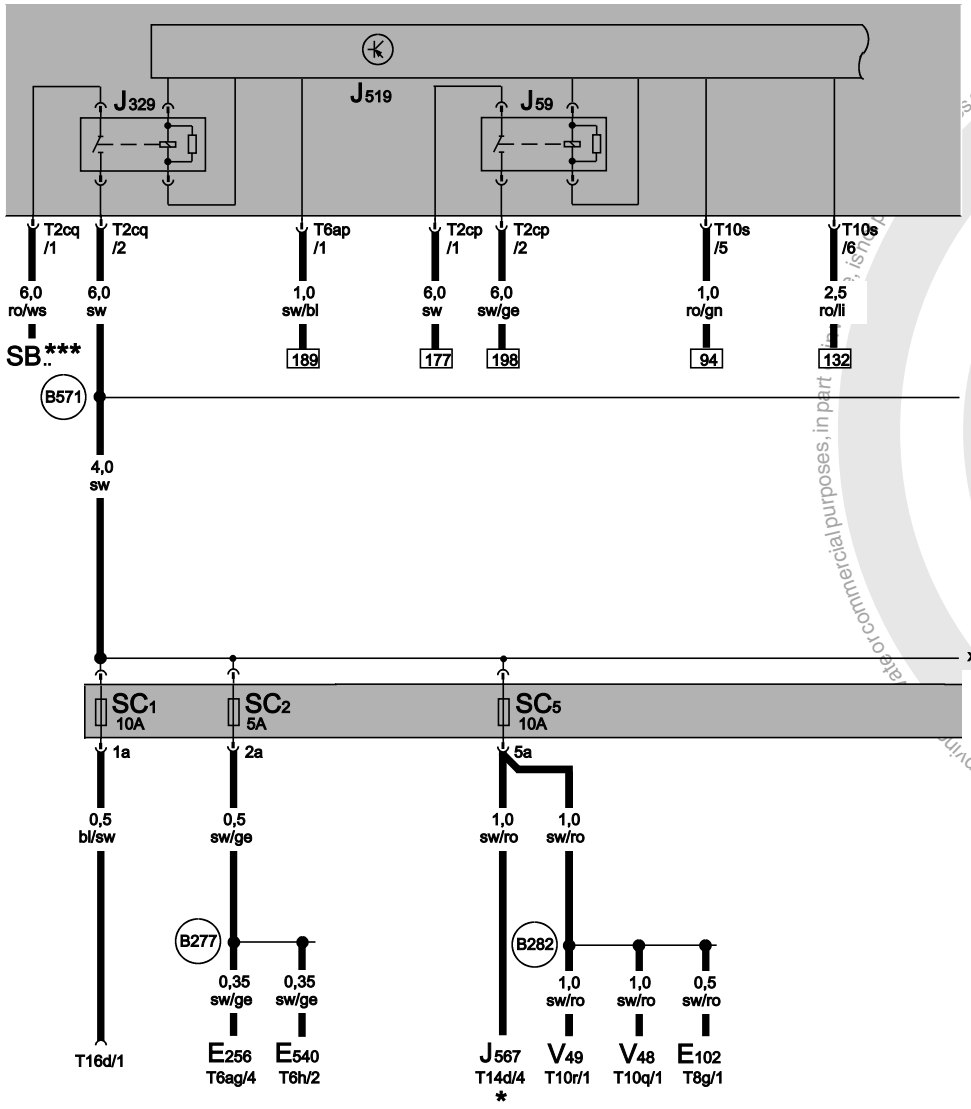
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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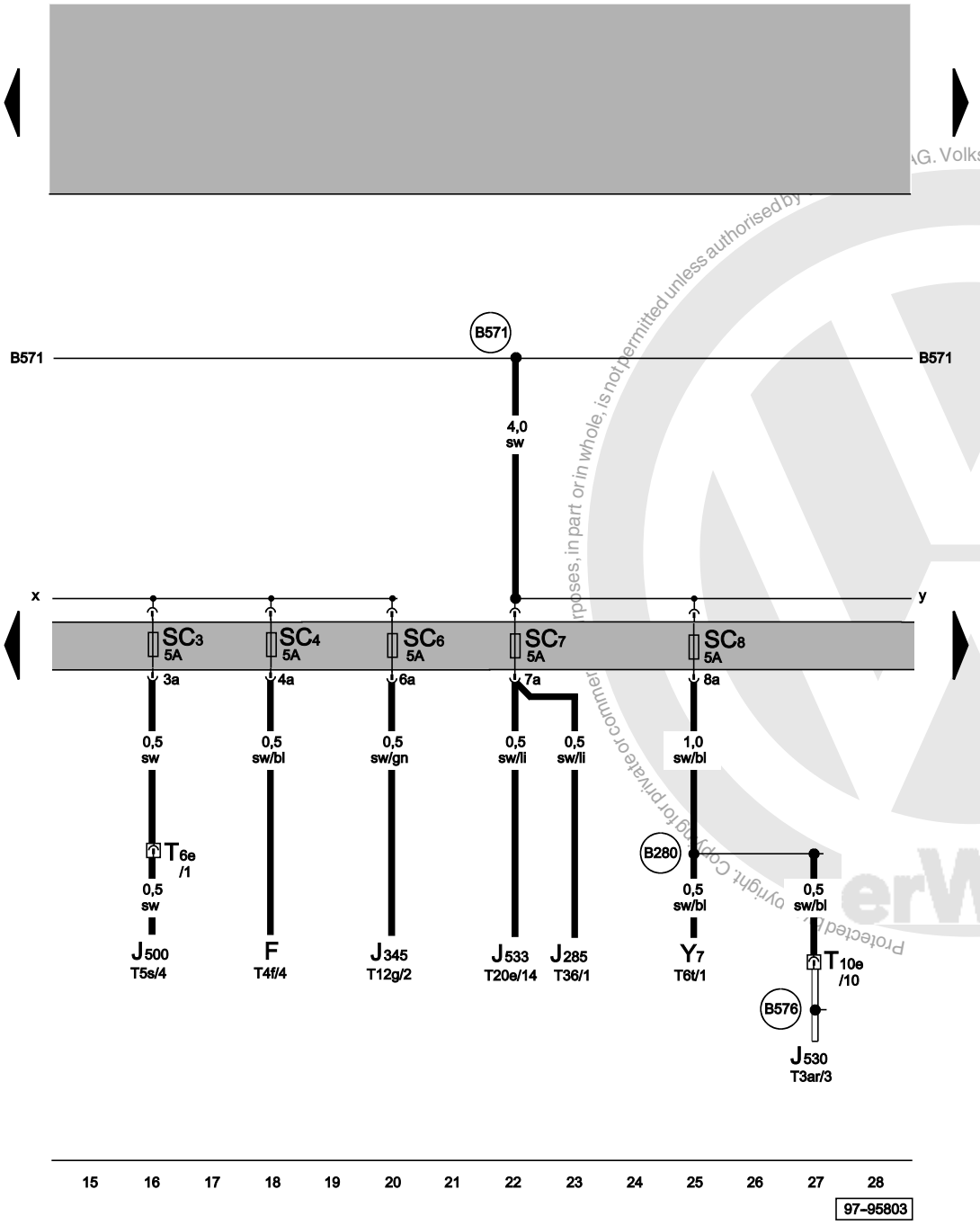


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SC fuses, self-diagnosis connection

E102	Headlight range control regulator
E256	TCS and ESP button
E540	Auto-hold button
J59	X-contact relief relay
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J567	Left headlight range control unit
SB	Fuse holder B
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
SC5	Fuse 5 on fuse holder C
T2cp	2-pin connector
T2cq	2-pin connector
T6h	6-pin connector
T6ag	6-pin connector
T6ap	6-pin connector
T8g	8-pin connector
T10q	10-pin connector
T10r	10-pin connector
T10s	10-pin connector, black
T14d	14-pin connector
T16d	16-pin connector, self-diagnosis connection
V48	Left headlight range control motor
V49	Right headlight range control motor
B277	Connection 1 (15a), in main wiring harness
B282	Connection 6 (15a), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models with dynamic headlight range control and automatic driving light control
***	Fuse assignment depends on equipment, see fitting locations

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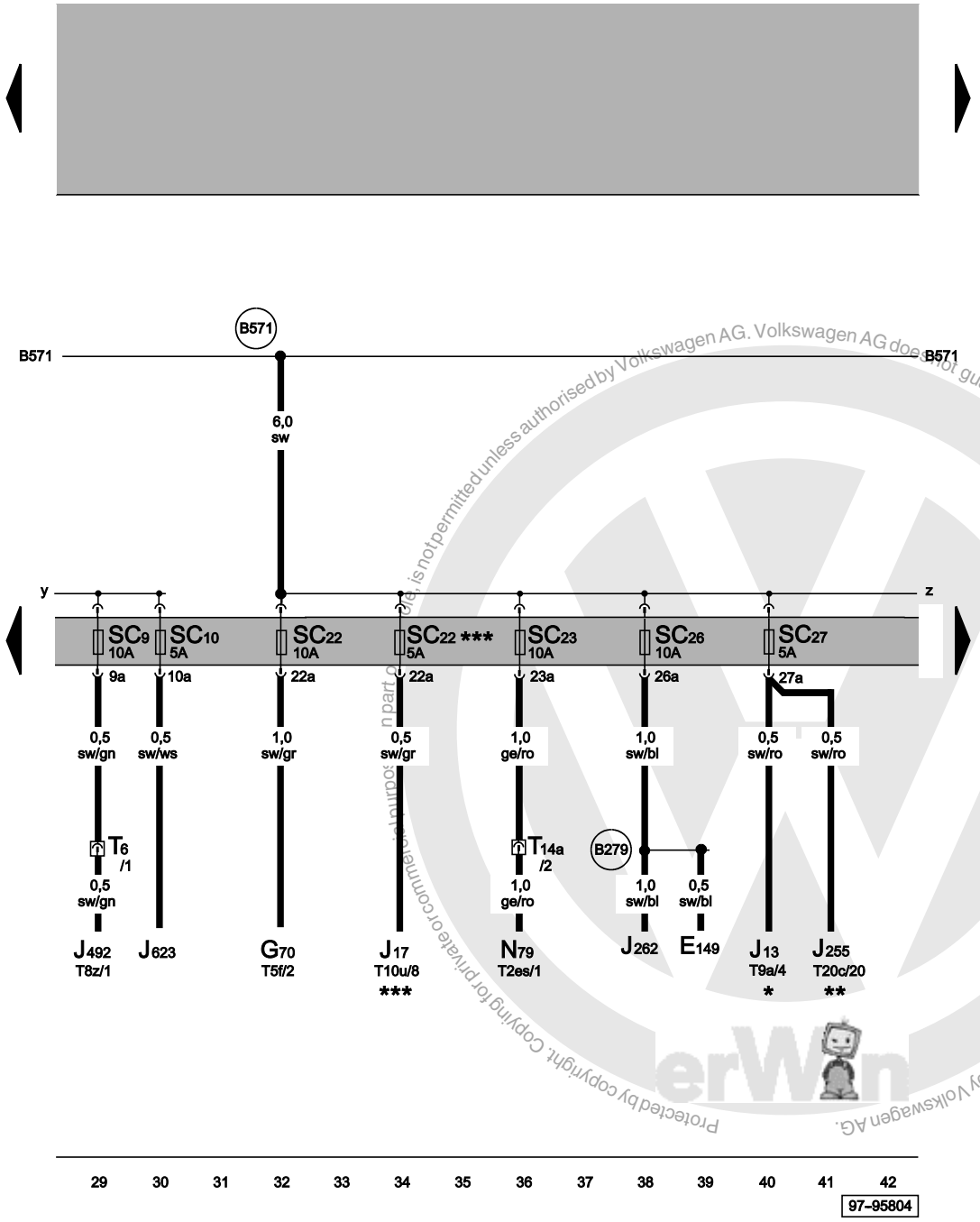
ws = white
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SC fuses

F	Brake light switch
J285	Control unit in dash panel insert
J345	Trailer detector control unit
J500	Power steering control unit
J530	Garage door operation control unit
J533	Data bus diagnosis interface
SC3	Fuse 3 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC6	Fuse 6 on fuse holder C
SC7	Fuse 7 on fuse holder C
SC8	Fuse 8 on fuse holder C
T3ar	3-pin connector
T4f	4-pin connector
T5s	5-pin connector
T6e	6-pin connector, black
T6t	6-pin connector
T10e	10-pin connector, black, coupling point for roof wiring harness
T12g	12-pin connector, coupling point for trailer connection
T20e	20-pin connector
T36	36-pin connector
Y7	Automatic anti-dazzle interior mirror
B280	Connection 4 (15a), in main wiring harness
B571	Connection 38, in main wiring harness
B576	Positive connection (15), in roof wiring harness
<fo:exter	Flexible printed circuit

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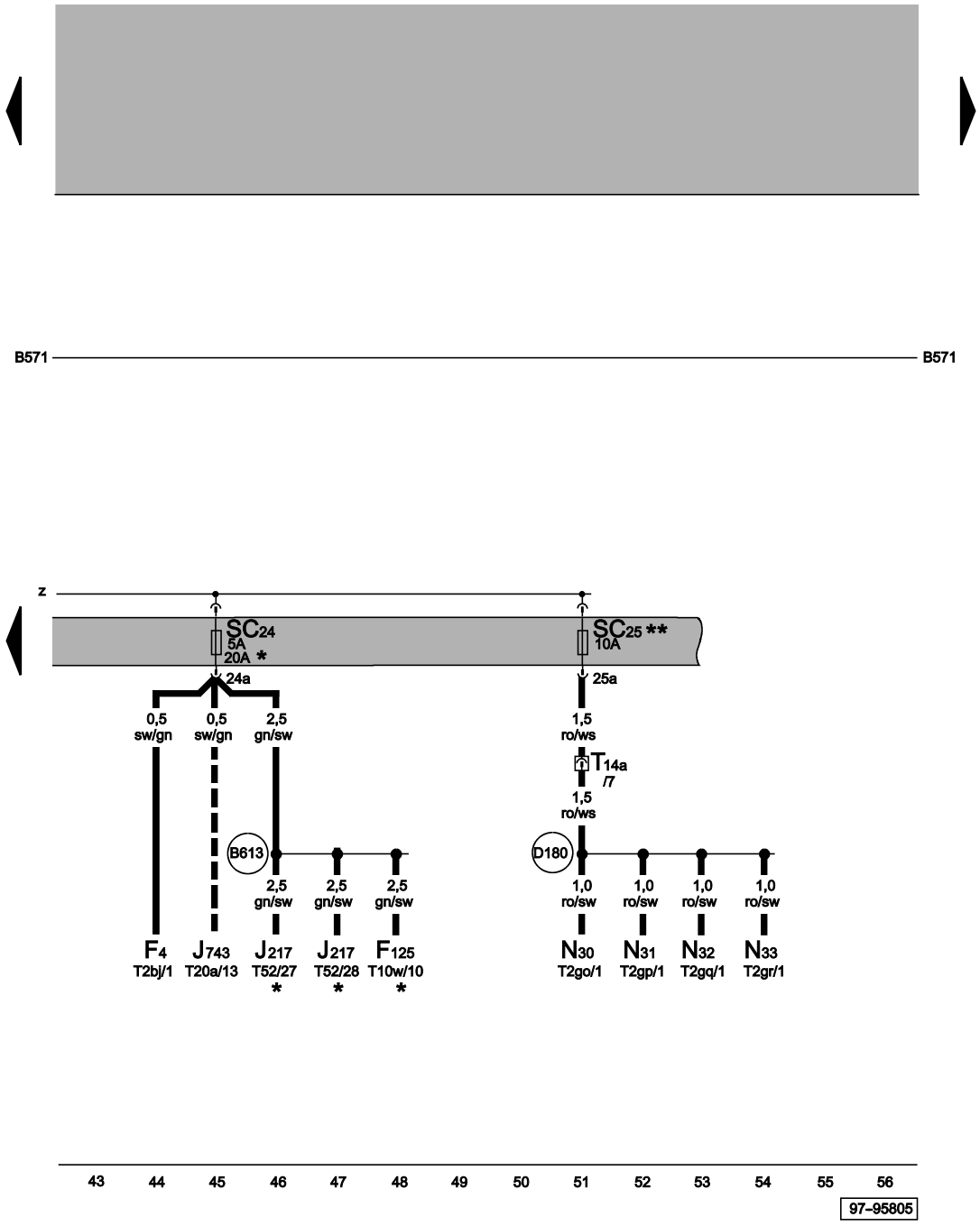


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SC fuses

E149	Rear roller blind switch
G70	Air mass meter
J13	Fresh air blower relay
J17	Fuel pump relay
J255	Climatronic control unit
J262	Rear roller blind control unit
J492	All-wheel drive control unit
J623	Engine control unit
N79	Crankcase breather heater element
SC9	Fuse 9 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC26	Fuse 26 on fuse holder C
SC27	Fuse 27 on fuse holder C
T2es	2-pin connector
T5f	5-pin connector
T6	6-pin connector, black
T8z	8-pin connector
T9a	9-pin connector
T10u	10-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T20c	20-pin connector
B279	Connection 3 (15a), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models with Climatic and auxiliary heater
**	Only models with Climatic with no auxiliary heater
***	Only models with engine codes BSE, BSF

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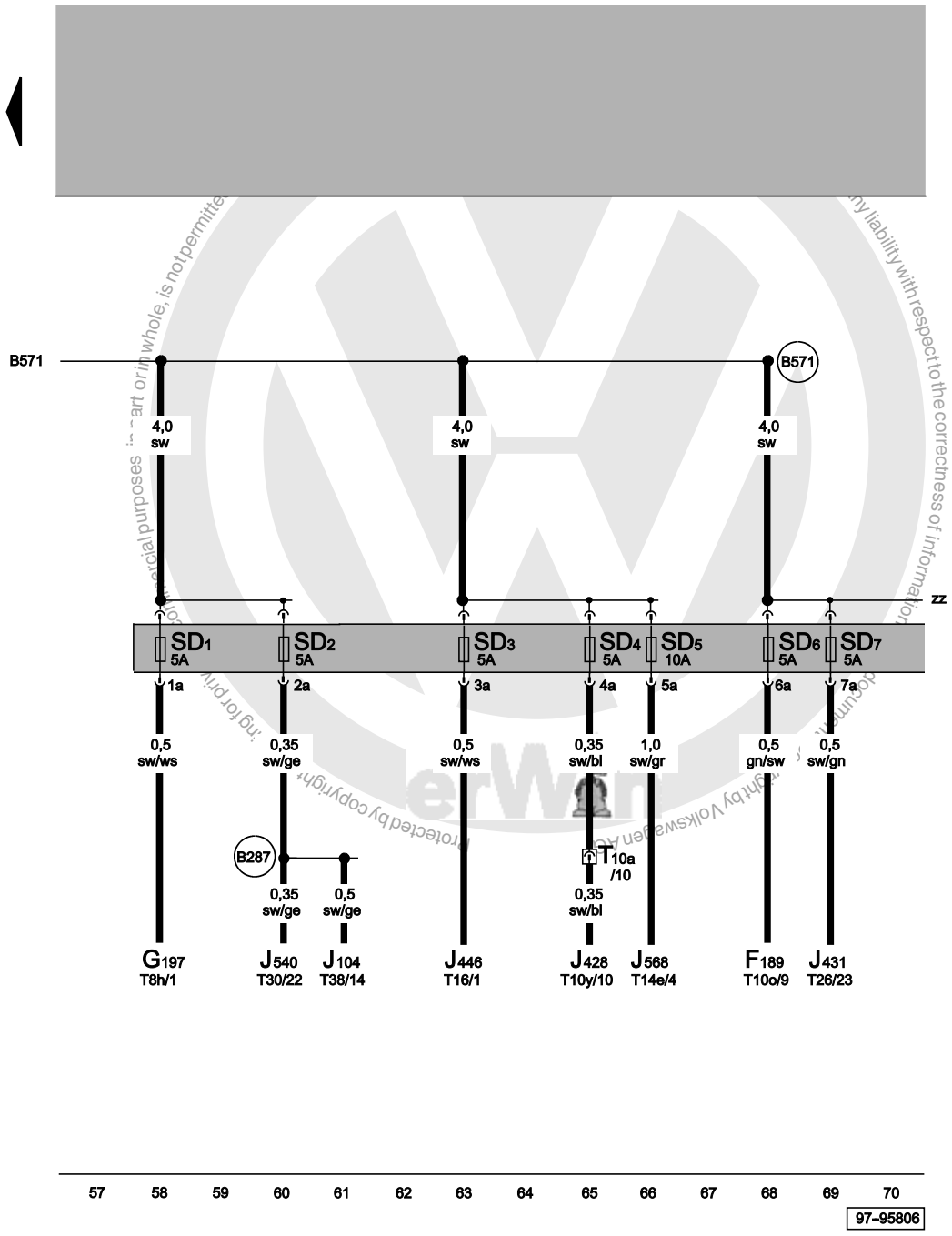


SC fuses

F4	Reversing light switch
F125	Multifunction switch
J217	Automatic gearbox control unit
J743	Mechatronics for dual clutch gearbox
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
SC24	Fuse 24 on fuse holder C
SC25	Fuse 25 on fuse holder C
T2bj	2-pin connector
T2gp	2-pin connector
T2gq	2-pin connector
T2gr	2-pin connector
T2go	2-pin connector
T10w	10-pin connector, on gearbox
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T20a	20-pin connector
T52	52-pin connector
B613	Connection 41, in main wiring harness
D180	Connection (87a), in engine compartment wiring harness
*	Only models with automatic gearbox
**	Only models with engine codes BSE, BSF
---	Only models with dual clutch gearbox

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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li	=	purple
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or	=	orange
rs	=	pink

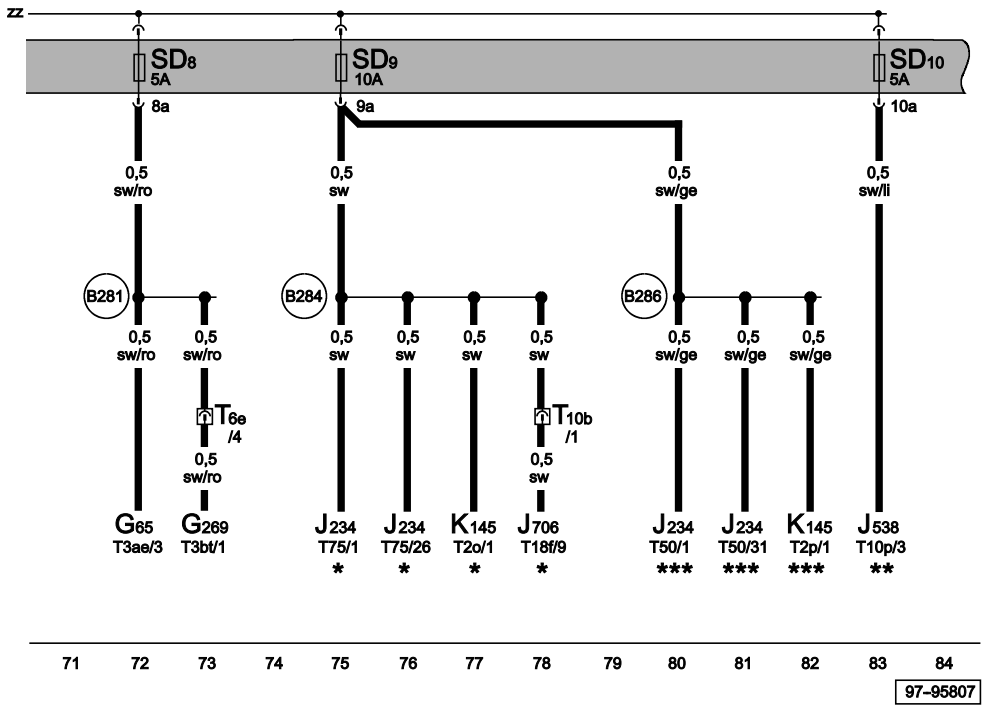
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SD fuses

F189	Tiptronic switch
G197	Magnetic field sender for compass
J104	ABS control unit
J428	Adaptive cruise control unit
J431	Control unit for headlight range control
J446	Parking aid control unit
J540	Control unit for electromechanical parking brake
J568	Right headlight range control unit
SD1	Fuse 1 on fuse holder D
SD2	Fuse 2 on fuse holder D
SD3	Fuse 3 on fuse holder D
SD4	Fuse 4 on fuse holder D
SD5	Fuse 5 on fuse holder D
SD6	Fuse 6 on fuse holder D
SD7	Fuse 7 on fuse holder D
T8h	8-pin connector
T10a	10-pin connector, black
T10o	10-pin connector, on gearbox
T10y	10-pin connector
T14e	14-pin connector
T16	16-pin connector
T26	26-pin connector
T30	30-pin connector
T38	38-pin connector
B287	Connection 11 (15a), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
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br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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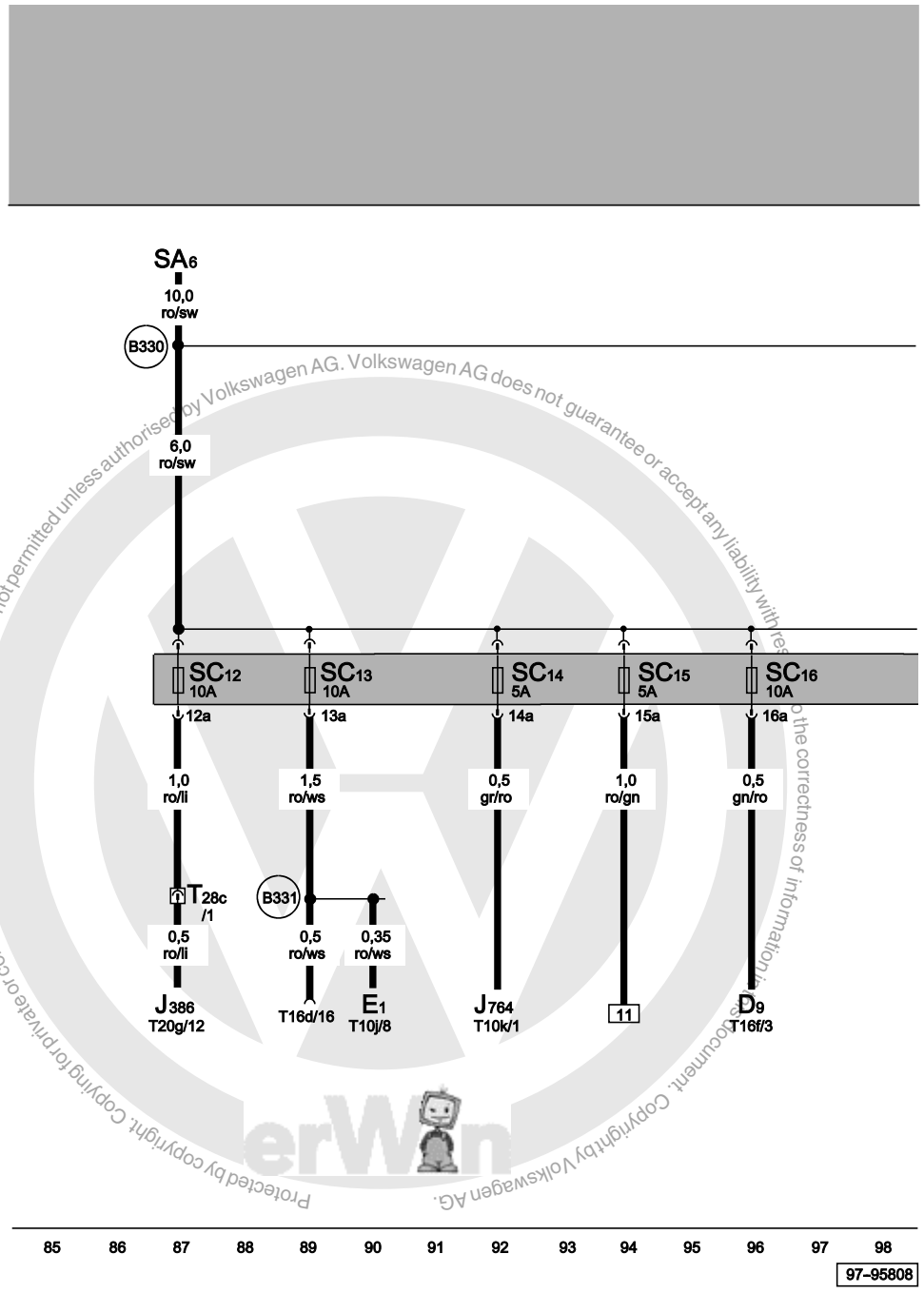


SD fuses

G65	High-pressure sender
G269	Steering moment sender
J234	Airbag control unit
J538	Fuel pump control unit
J706	Seat occupied recognition control unit
K145	Front passenger side airbag deactivated warning lamp
SD8	Fuse 8 on fuse holder D
SD9	Fuse 9 on fuse holder D
SD10	Fuse 10 on fuse holder D
T2o	2-pin connector
T2p	2-pin connector
T3ae	3-pin connector
T3bt	3-pin connector
T6e	6-pin connector, black
T10b	10-pin connector, coupling point front passenger side, under seat
T10p	10-pin connector
T18f	18-pin connector
T50	50-pin connector
T75	75-pin connector
B281	Connection 5 (15a), in main wiring harness
B284	Connection 8 (15a), in main wiring harness
B286	Connection 10 (15a), in main wiring harness
*	Only models with airbag control unit 16 channel
**	Only models with engine codes BLF, BLR, BLY
***	Only models with airbag control unit 12 channel

ws = white
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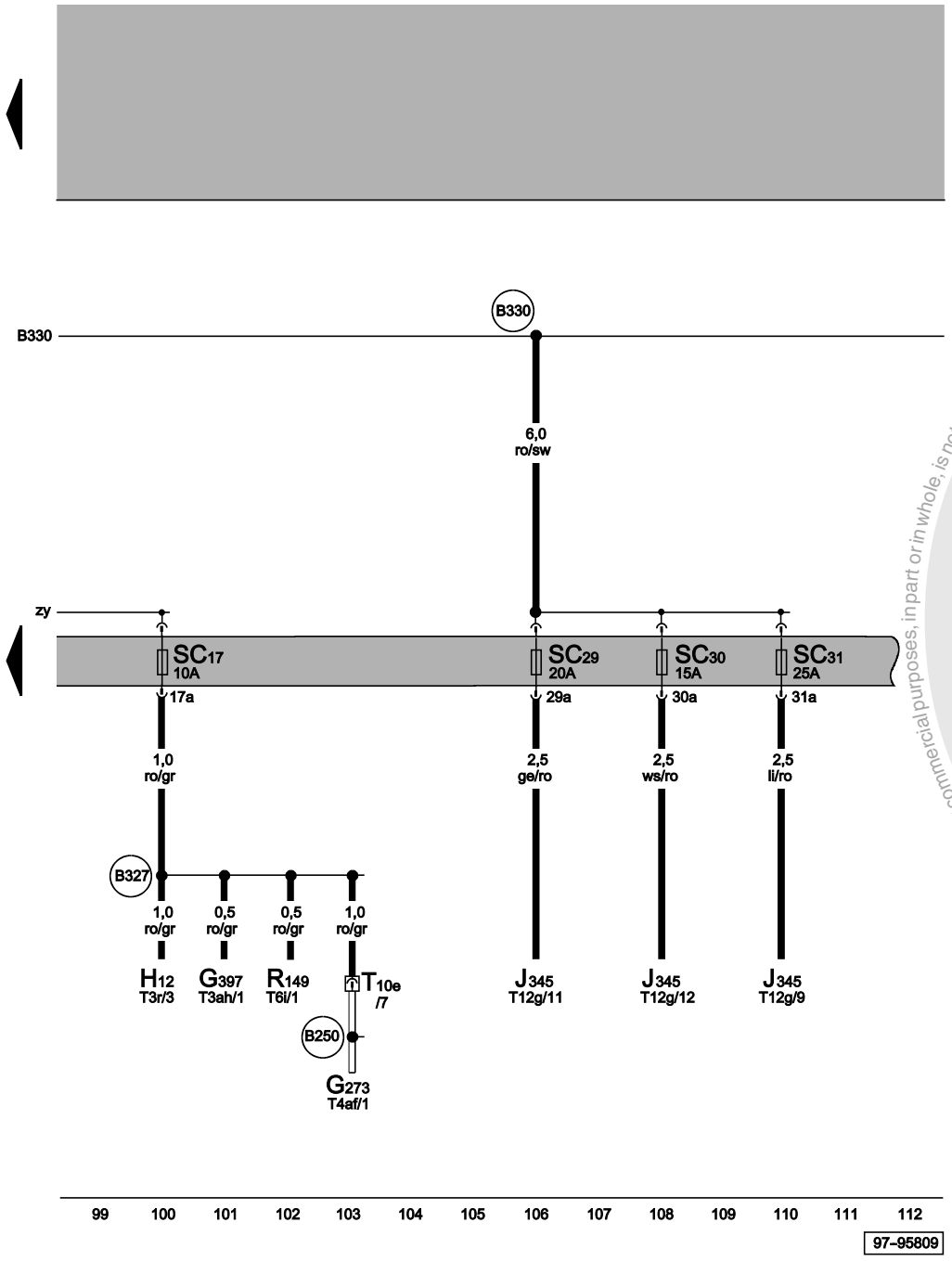


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SC fuses, self-diagnosis connection

D9	Electronic ignition lock
E1	Light switch
J386	Driver door control unit
J764	Electronic steering column lock control unit
SA6	Fuse 6 on fuse holder A
SC12	Fuse 12 on fuse holder C
SC13	Fuse 13 on fuse holder C
SC14	Fuse 14 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC16	Fuse 16 on fuse holder C
T10j	10-pin connector
T10k	10-pin connector
T16f	16-pin connector
T20g	20-pin connector
T16d	16-pin connector, self-diagnosis connection
T28c	28-pin connector, coupling point, left A-pillar
B330	Connection 16 (30a), in main wiring harness
B331	Connection 17 (30a), in main wiring harness

ws	=	white
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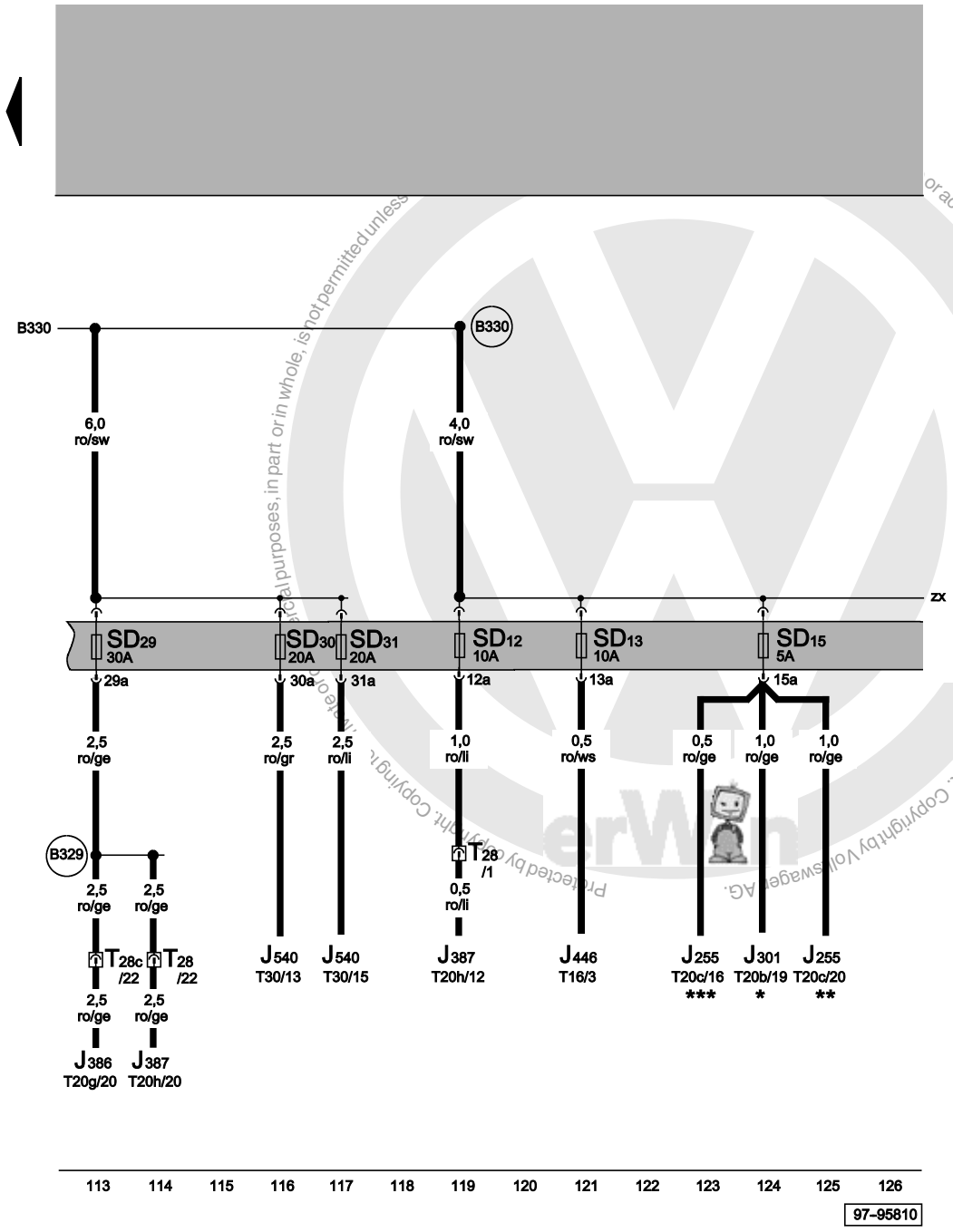
SC fuses

G273	Interior monitoring sensor
G397	Rain and light sensor
H12	Alarm horn
J345	Trailer detector control unit
R149	Remote control receiver for supplementary coolant heater
SC17	Fuse 17 on fuse holder C
SC29	Fuse 29 on fuse holder C
SC30	Fuse 30 on fuse holder C
SC31	Fuse 31 on fuse holder C
T3ah	3-pin connector
T3r	3-pin connector
T4af	4-pin connector
T6i	6-pin connector
T10e	10-pin connector, near interior mirror
T12g	12-pin connector, coupling point for trailer coupling
B250	Positive connection, in roof wiring harness
B327	Connection 13 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
<fo:exter	Flexible printed circuit

nal-
graphic
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PDOC/
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ft_icons/
rahmen.p
ng"
content-
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ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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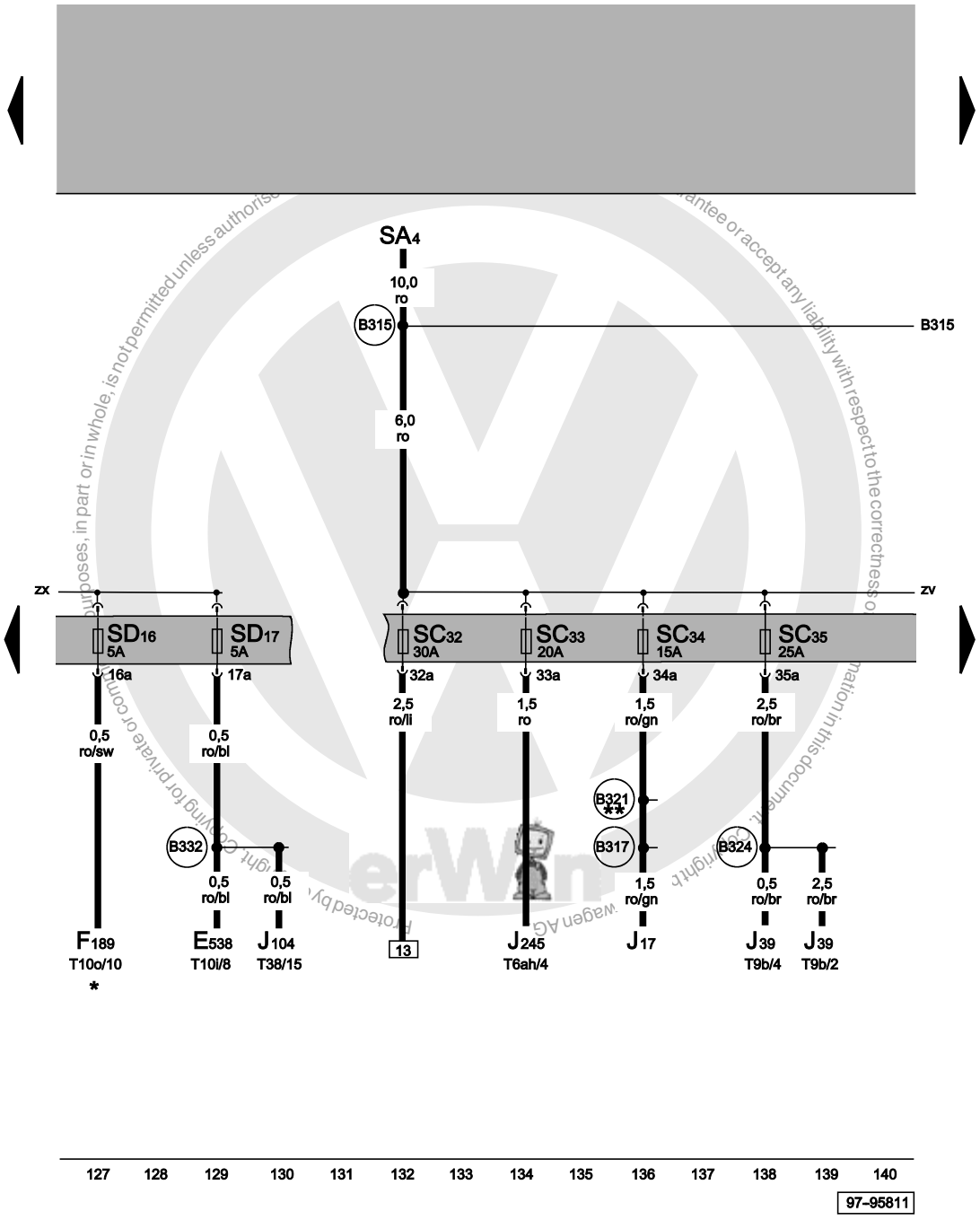


SD fuses

J255	Climatronic control unit
J301	Air conditioning system control unit
J386	Driver door control unit
J387	Front passenger side door control unit
J446	Parking aid control unit
J540	Control unit for electromechanical parking brake
SD12	Fuse 12 on fuse holder D
SD13	Fuse 13 on fuse holder D
SD15	Fuse 15 on fuse holder D
SD29	Fuse 29 on fuse holder D
SD30	Fuse 30 on fuse holder D
SD31	Fuse 31 on fuse holder D
T16	16-pin connector
T20b	20-pin connector, black
T20c	20-pin connector
T20g	20-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T30	30-pin connector
B329	Connection 15 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
*	Only models with Climatic
**	Only models with Climatronic and auxiliary heater
***	Only models with Climatronic

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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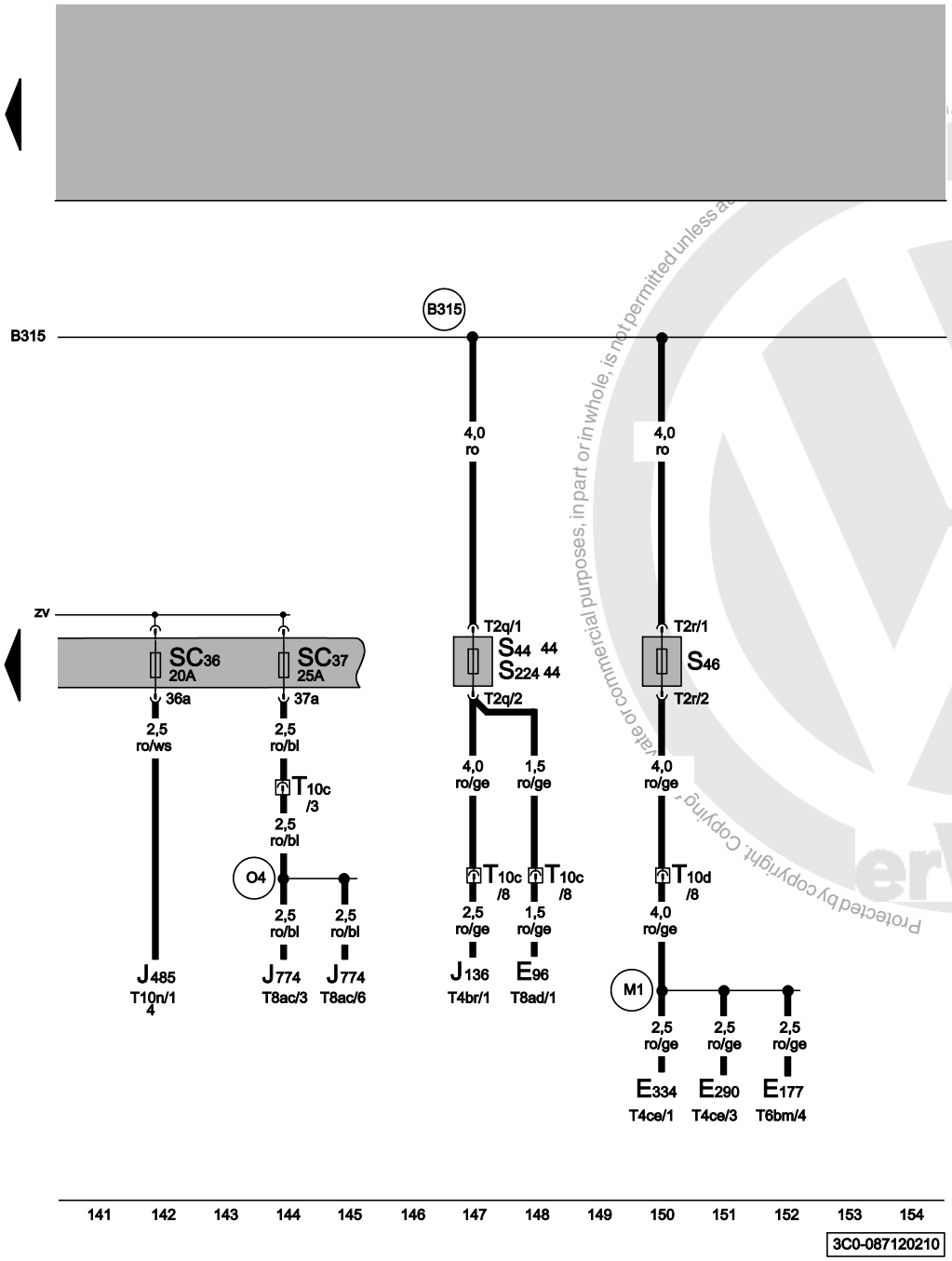


SD fuses, SC fuses

E538	Electromechanical parking brake button
F189	Tiptronic switch
J17	Fuel pump relay
J39	Headlight washer system relay
J104	ABS control unit
J245	Sliding sunroof adjustment control unit
SC32	Fuse 32 on fuse holder C
SC33	Fuse 33 on fuse holder C
SC34	Fuse 34 on fuse holder C
SC35	Fuse 35 on fuse holder C
SD16	Fuse 16 on fuse holder D
SD17	Fuse 17 on fuse holder D
T6ah	6-pin connector
T9b	9-pin connector
T10i	10-pin connector
T10o	10-pin connector, on gearbox
T38	38-pin connector
B315	Connection 1 (30a), in main wiring harness
B317	Connection 3 (30a), in main wiring harness
B321	Connection 7 (30a), in main wiring harness
B324	Connection 10 (30a), in main wiring harness
B332	Connection 18 (30a), in main wiring harness
*	Only models with automatic gearbox
**	Only models with engine codes BSE, BSF

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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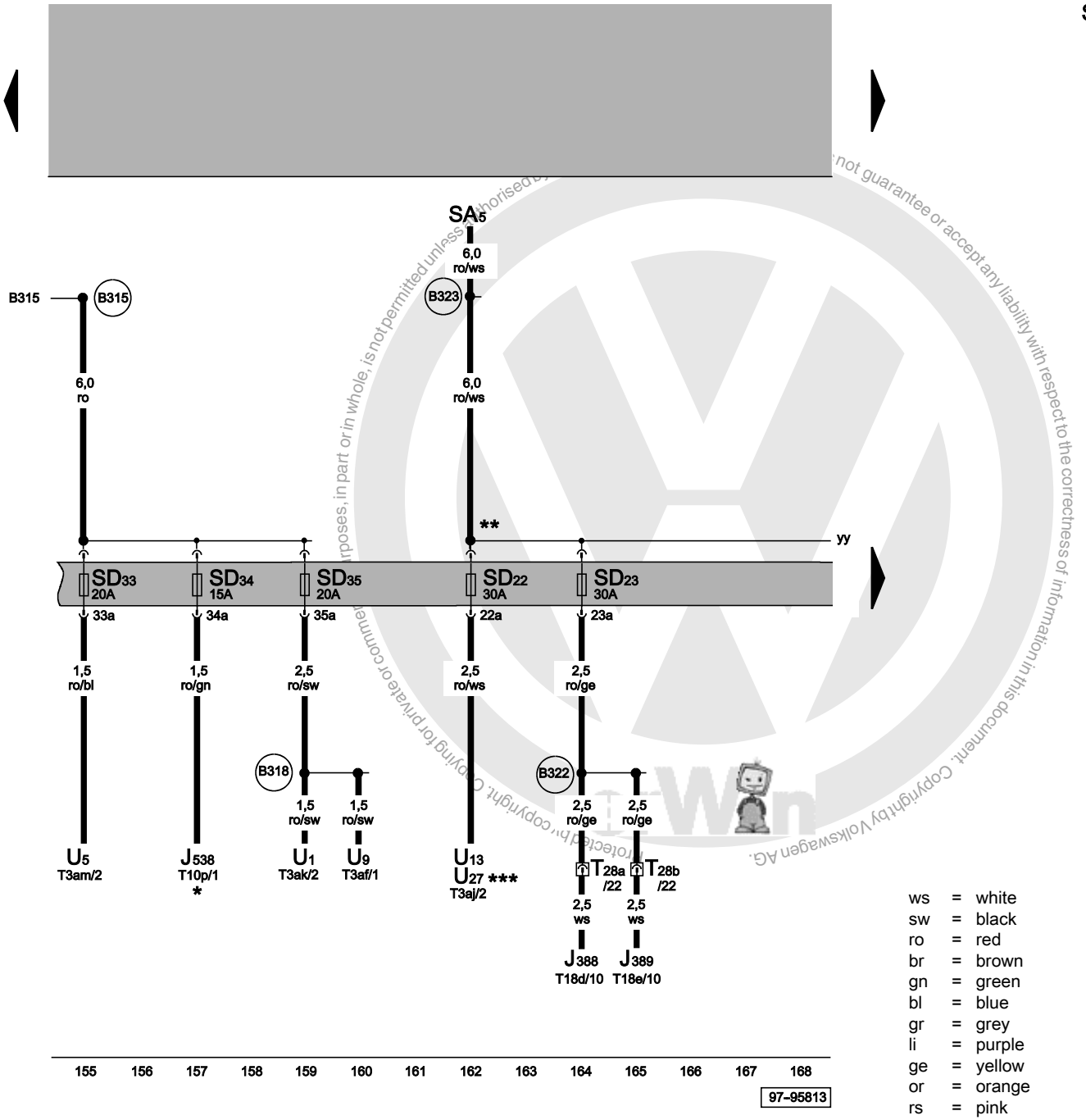


SC fuses, thermal Fuse

E96	Driver seat backrest adjustment switch
E177	Front passenger seat lumbar support adjustment switch
E290	Front passenger side height adjustment switch
E334	Front passenger seat rake adjustment button
J136	Seat and steering column adjustment control unit with memory
J485	Auxiliary heater operation relay
J774	Control unit for heated front seats
S44	Driver seat adjustment thermal fuse 1
S46	Front passenger seat adjustment thermal fuse 1
S224	Fuse in fuse holder on left under dash panel
SC36	Fuse 36 on fuse holder C
SC37	Fuse 37 on fuse holder C
T2q	2-pin connector
T2r	2-pin connector
T4br	4-pin connector
T4ce	4-pin connector
T6bm	6-pin connector
T8ac	8-pin connector
T8ad	8-pin connector
T10c	10-pin connector, coupling point driver side, under seat
T10d	10-pin connector, coupling point front passenger side, under seat
T10n	10-pin connector, on E-box
M1	Positive connection 1 (30), in seat adjustment wiring harness
O4	Positive connection (30), in seat heating wiring harness
*	Only models with Climatic and auxiliary heater
**	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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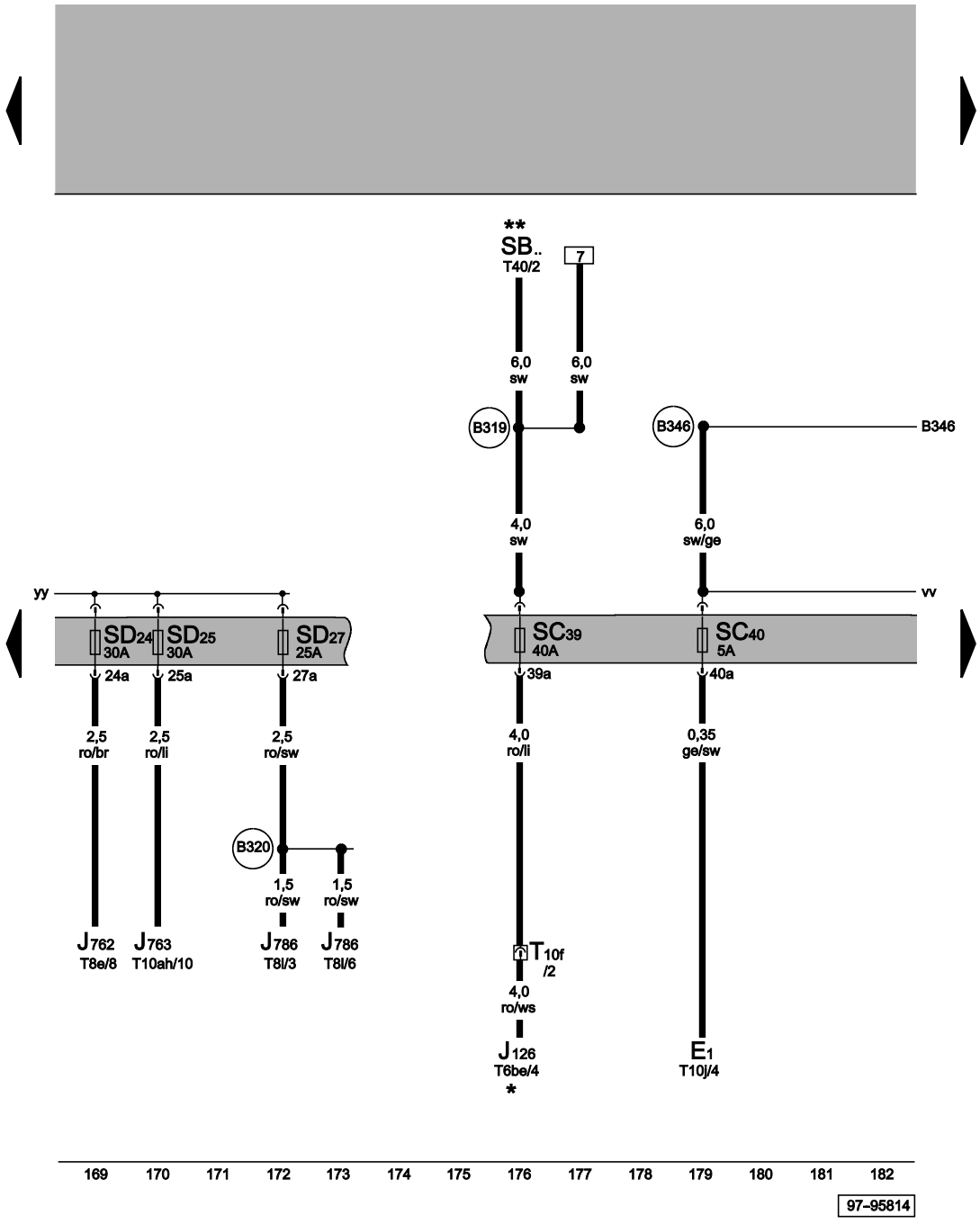


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

SD fuses

J388	Rear left door control unit
J389	Rear right door control unit
J538	Fuel pump control unit
SA5	Fuse 5 on fuse holder A
SD22	Fuse 22 on fuse holder D
SD23	Fuse 23 on fuse holder D
SD33	Fuse 33 on fuse holder D
SD34	Fuse 34 on fuse holder D
SD35	Fuse 35 on fuse holder D
T3af	3-pin connector
T3aj	3-pin connector
T3ak	3-pin connector
T3am	3-pin connector
T10p	10-pin connector
T18d	18-pin connector
T18e	18-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
U1	Cigarette lighter
U5	12 V socket
U9	Rear cigarette lighter
U13	AC/DC converter with socket, 12 V - 230 V
U27	AC/DC converter with socket, 12 V - 230 V
B315	Connection 1 (30a), in main wiring harness
B318	Connection 4 (30a), in main wiring harness
B322	Connection 8 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness
*	Only models with engine codes BLF, BLR, BLY
**	Depends on equipment
***	Only American markets

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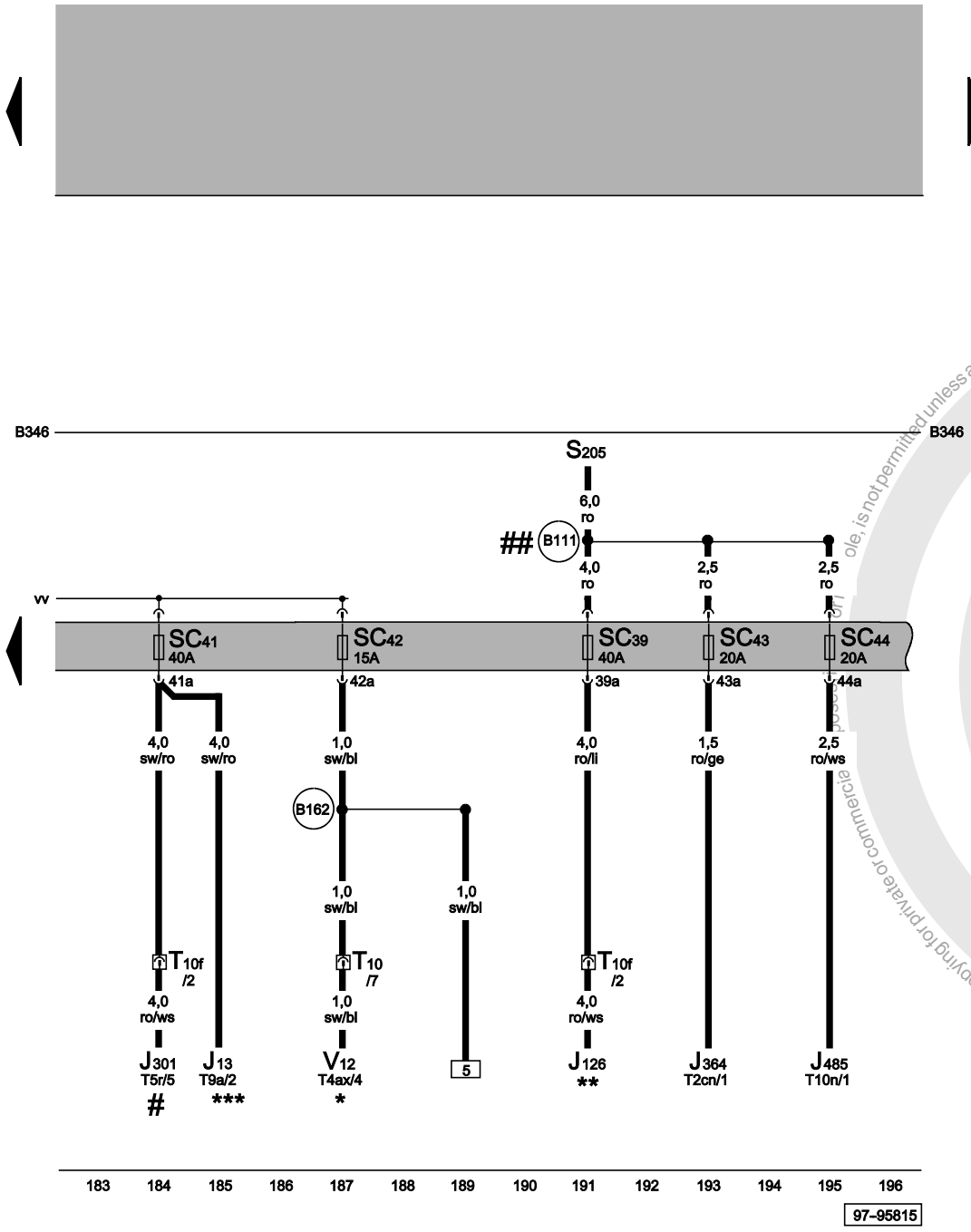


SD fuses, SC fuses

E1	Light switch
J126	Fresh air blower control unit
J762	Power latching control unit for rear left door
J763	Power latching control unit for rear right door
J786	Heated rear seats control unit
SB	Fuse B, see fuse concept
SC39	Fuse 39 on fuse holder C
SC40	Fuse 40 on fuse holder C
SD24	Fuse 24 on fuse holder D
SD25	Fuse 25 on fuse holder D
SD27	Fuse 27 on fuse holder D
T6be	6-pin connector
T8e	8-pin connector
T8l	8-pin connector
T10ah	10-pin connector
T10f	10-pin connector, coupling point for heater/air conditioning system
T10j	10-pin connector
T40	40-pin connector, under E-box, in engine compartment
B319	Connection 5 (30a), in main wiring harness
B320	Connection 6 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
*	Only models with Climatronic
**	Fuse assignment depends on equipment, see fitting locations

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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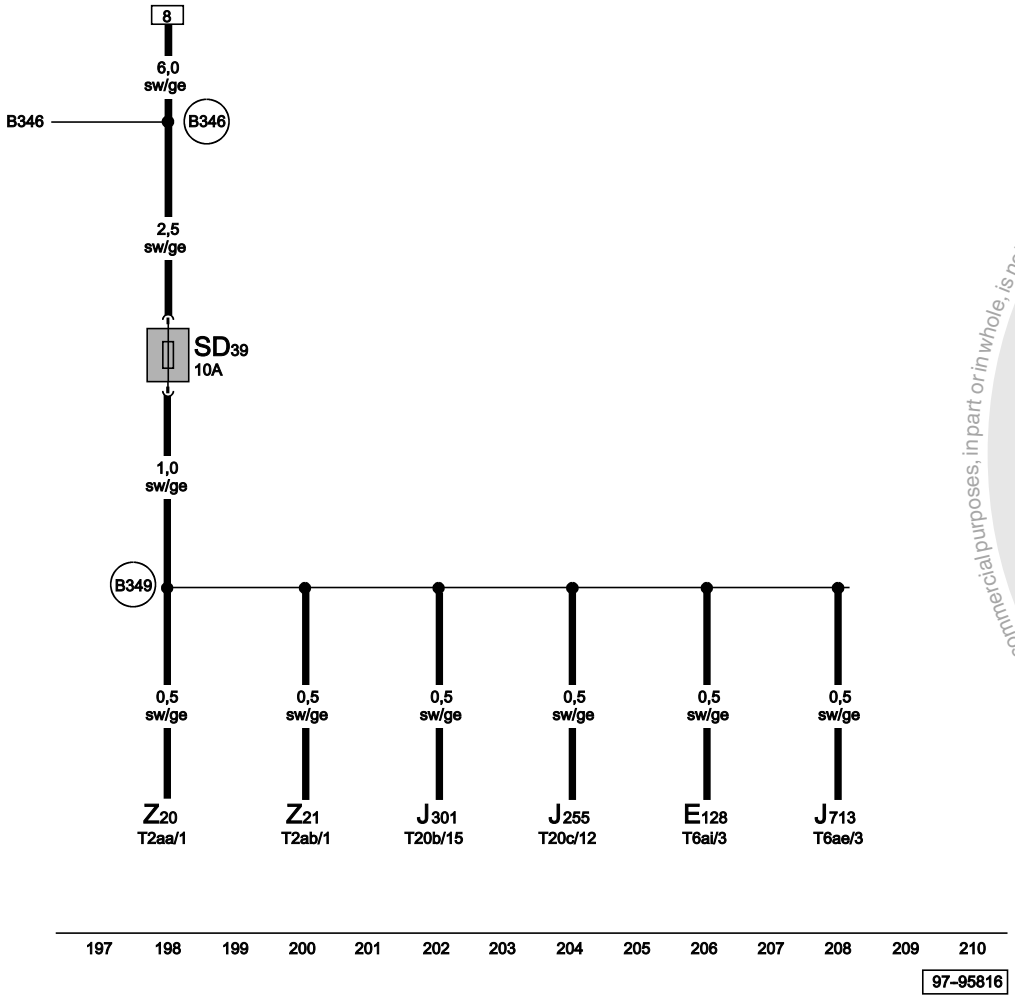


SC fuses

J13	Fresh air blower relay
J126	Fresh air blower control unit
J301	Air conditioning system control unit
J364	Auxiliary heater control unit
J485	Auxiliary heater operation relay
S205	Fuse 2 (30)
SC39	Fuse 39 on fuse holder C
SC41	Fuse 41 on fuse holder C
SC42	Fuse 42 on fuse holder C
SC43	Fuse 43 on fuse holder C
SC44	Fuse 44 on fuse holder C
T2cn	2-pin connector
T4ax	4-pin connector
T5r	5-pin connector
T9a	9-pin connector
T10	10-pin connector, coupling point on left of rear lid
T10f	10-pin connector, coupling point for heater/air conditioning system
T10n	10-pin connector, on E-box
V12	Rear window wiper motor
B111	Positive connection 1 (30a), in interior wiring harness
B162	Connection (75a), in interior wiring harness
*	Only Variant models
**	Only models with Climatronic
***	Only models with Climatic and auxiliary heater
#	Only models with Climatic and with no auxiliary heater
##	Only models with second battery

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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SD fuse

E128	Heated rear left seat switch with regulator
J255	Climatronic control unit
J301	Air conditioning system control unit
J713	Second battery charging circuit relay
SD39	Fuse 39 on fuse holder D
T2aa	2-pin connector
T2ab	2-pin connector
T6ae	6-pin connector
T6ai	6-pin connector
T20b	20-pin connector, black
T20c	20-pin connector
Z20	Left washer jet heater element
Z21	Right washer jet heater element
B346	Connection 1 (75), in main wiring harness
B349	Connection 2 (75A), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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1.6 l/75 kW Motronic, engine code BSE, BSF

from May 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

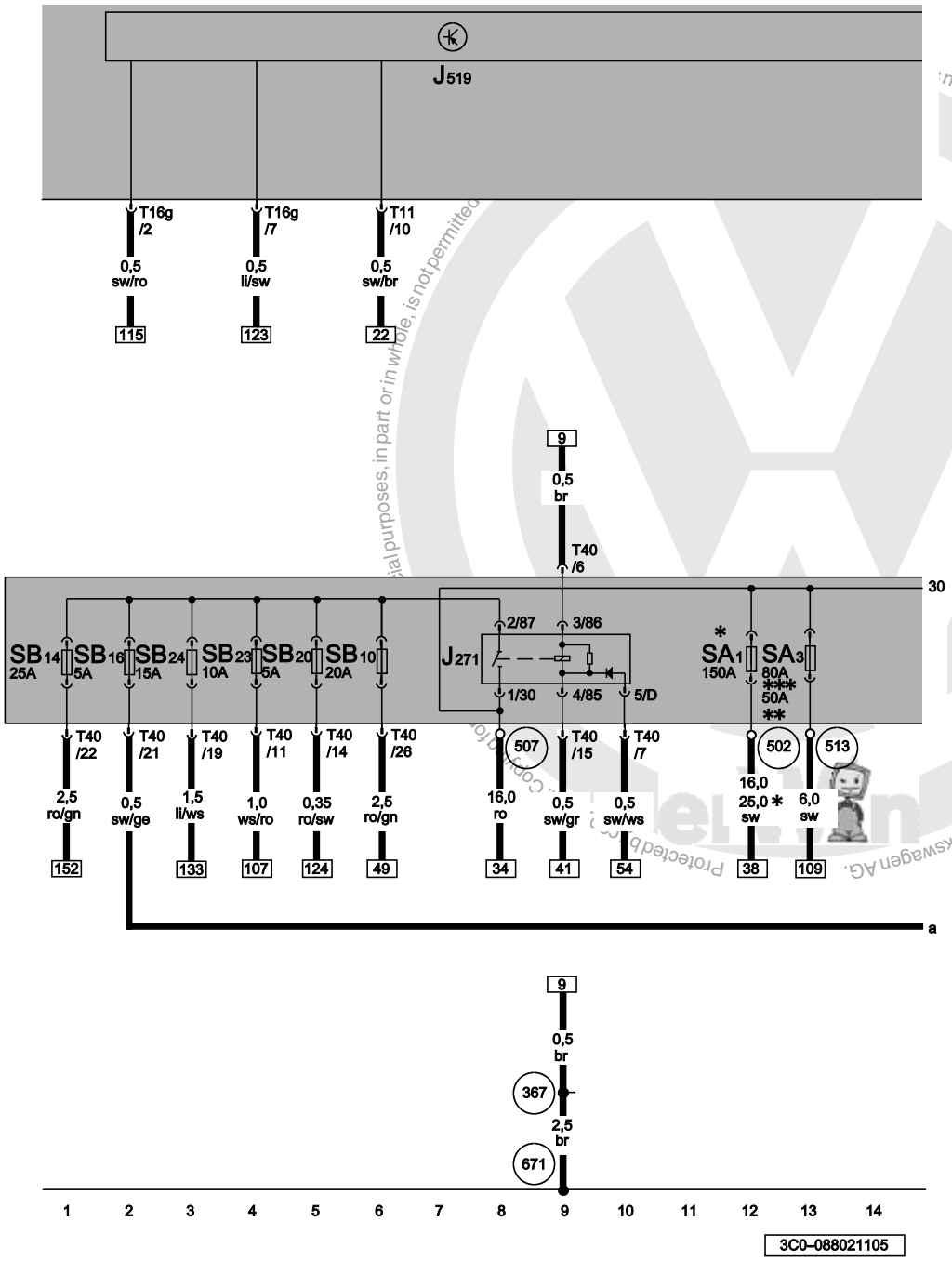
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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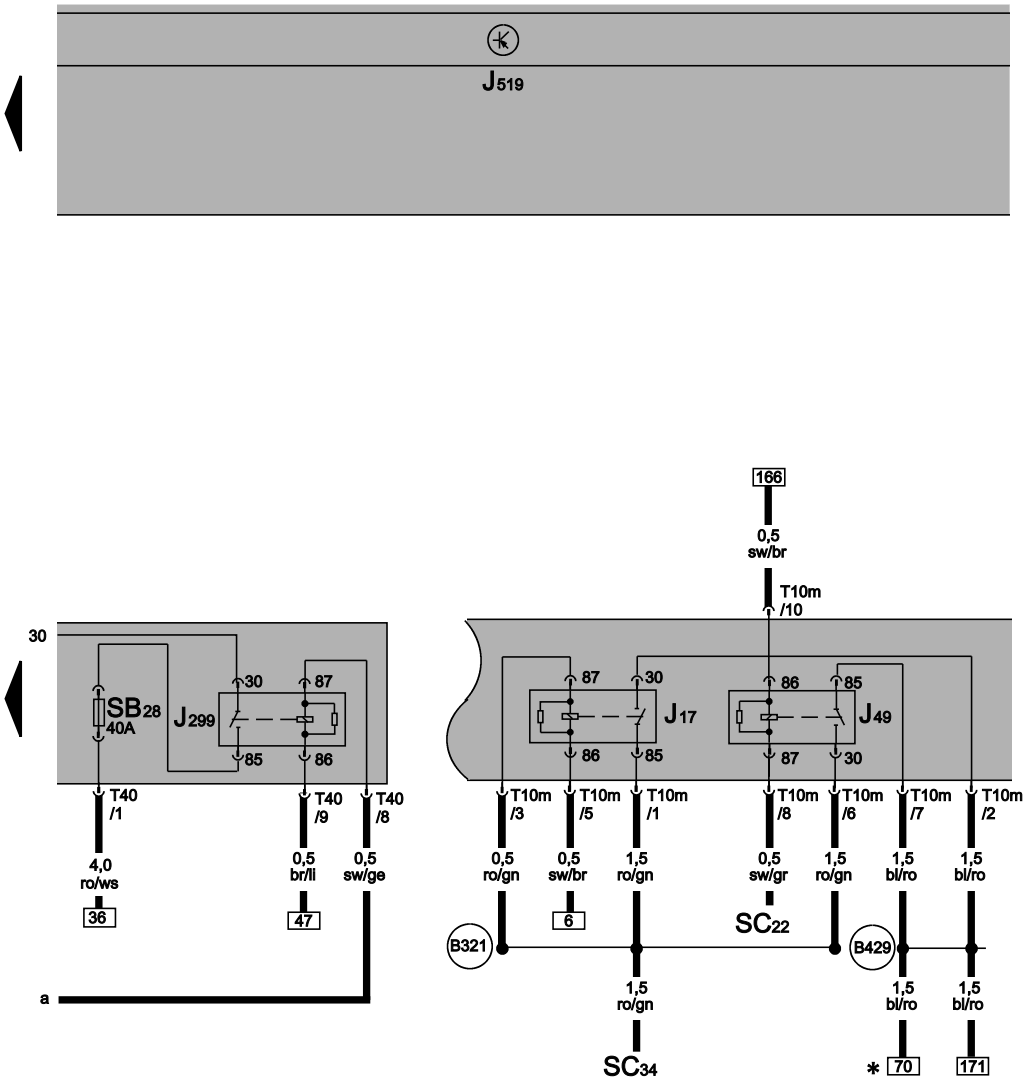


SB-fuses, Motronic current supply relay

J271	Motronic current supply relay
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB10	Fuse 10 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
T11	11-pin connector, black
T16g	16-pin connector, black
T40	40-pin connector, under electronics box, in engine compartment
367	Earth connection 2, in main wiring harness
671	Earth point 1, on front of left longitudinal member
502	Screw connection 1 (30a), on relay plate
507	Screw connection (30), on fuse holder on battery
513	Screw connection 3 (30a), on relay plate
*	for models with 140 A alternator only
**	from November 2005
***	up to November 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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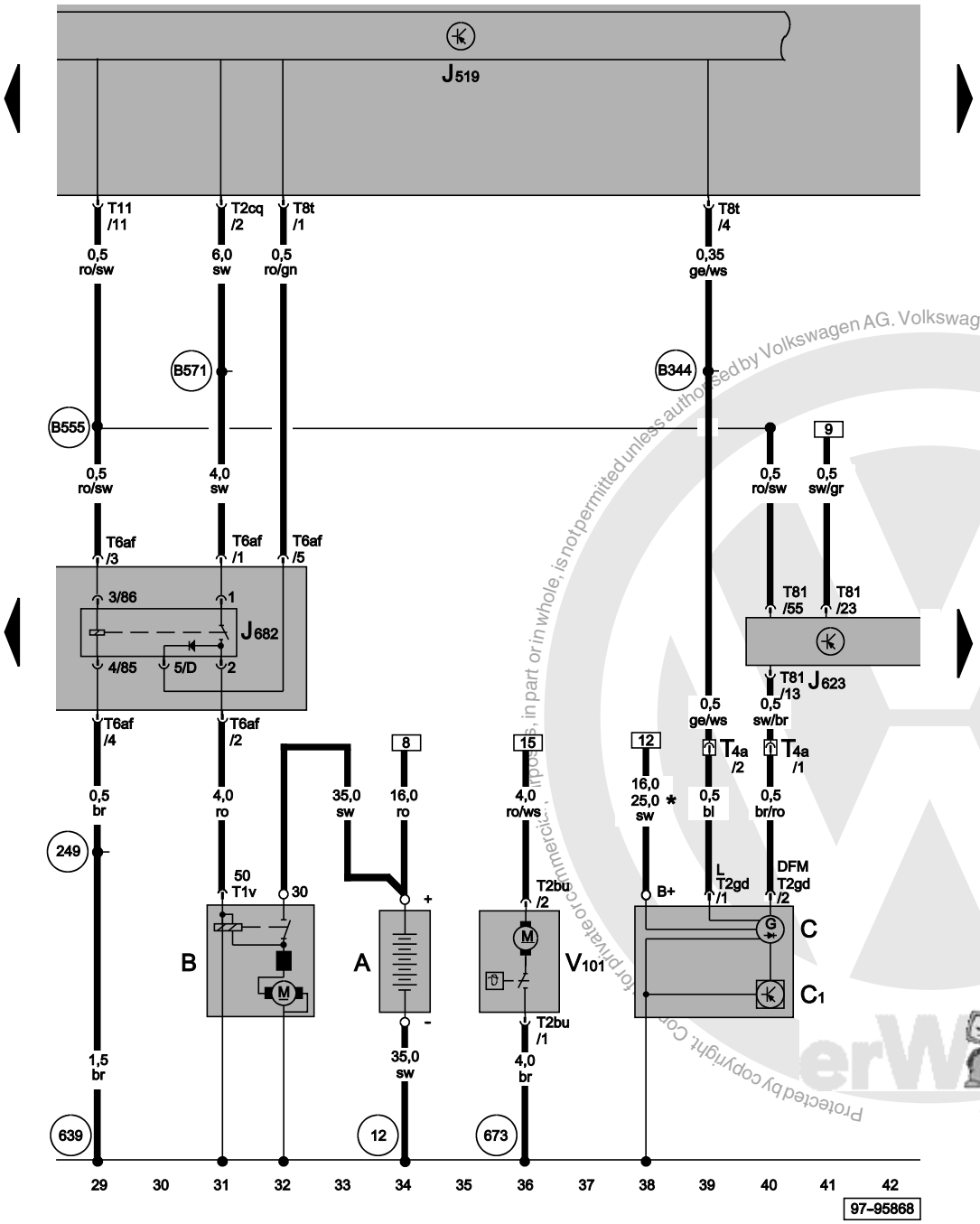


Fuel pump relay, electric fuel pump 2 relay, secondary air pump relay

J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J299	Secondary air pump relay
J519	Onboard supply control unit
SB28	Fuse 28 on fuse holder B
SC22	Fuse 22 on fuse holder C
SC34	Fuse 34 on fuse holder C
T10m	10-pin connector, on electronics box
T40	40-pin connector, under electronics box, in engine compartment
B321	Positive connection 7 (30a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	from November 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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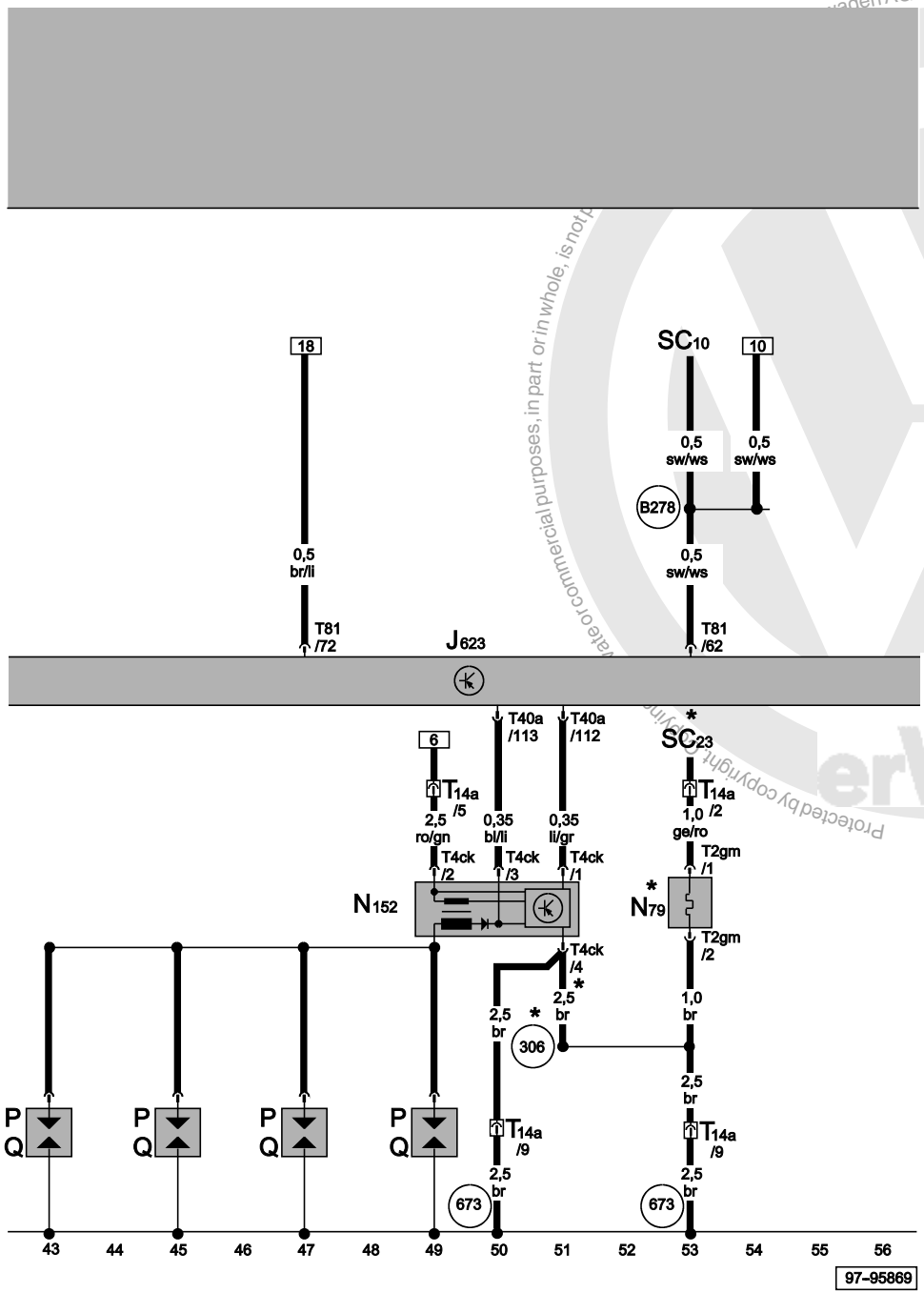


Terminals 50 voltage supply relay, battery, starter, alternator, voltage regulator, engine control unit

A	Battery
B	Starter
C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J623	Engine control unit
J682	Terminal 50 voltage supply relay
T1v	Single connector
T2bu	2-pin connector
T2cq	2-pin connector, black
T2gd	2-pin connector
T4a	4-pin connector, near starter
T6af	6-pin connector, on electronics box
T8t	8-pin connector, black
T11	11-pin connector, black
T81	81-pin connector
V101	Secondary air pump motor
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
673	Earth point 3, on front of left longitudinal member
B344	Connection 1 (61), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Engine control unit, ignition transformer, spark plug, spark plug connector, heater element for crankcase breather

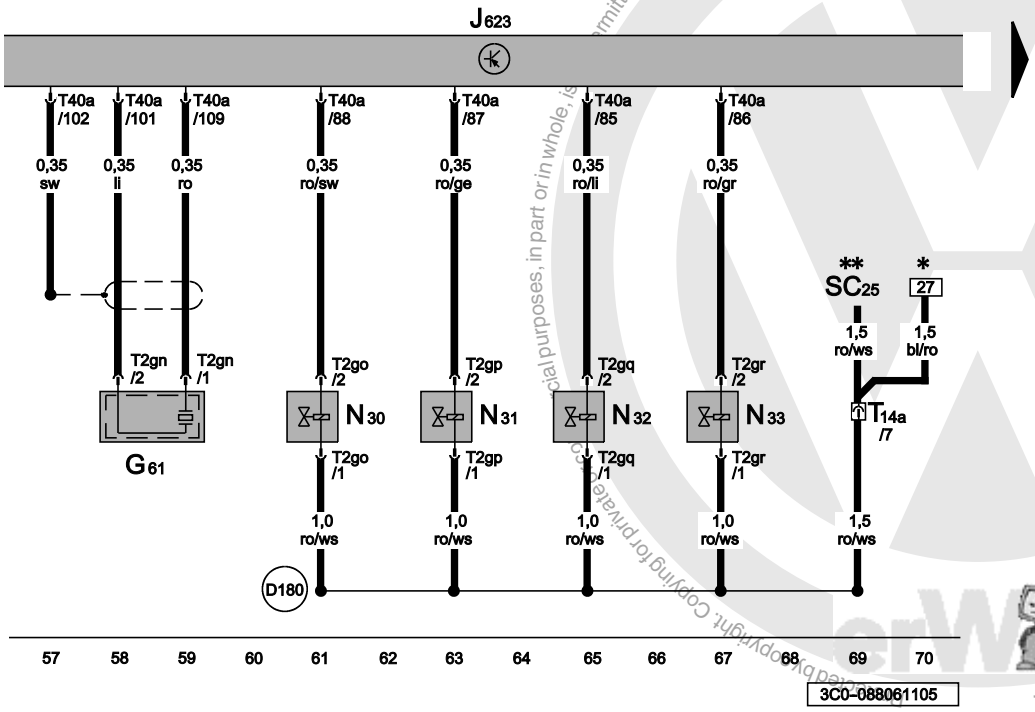
J623	Engine control unit
N79	Heater element for crankcase breather
N152	Ignition transformer
P	Spark plug connector
Q	Spark plugs
SC10	Fuse 10 on fuse holder C
SC23	Fuse 23 on fuse holder C
T2gm	2-pin connector
T4ck	4-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40a	40-pin connector
T81	81-pin connector
(306)	Earth connection (ignition coils), in engine harness
(673)	Earth point 3, on front of left longitudinal member
(B278)	Positive connection 2 (15a), in main wiring harness
*	models for cold countries only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Engine control unit, knock sensor 1, injectors for cylinders 1 to 4

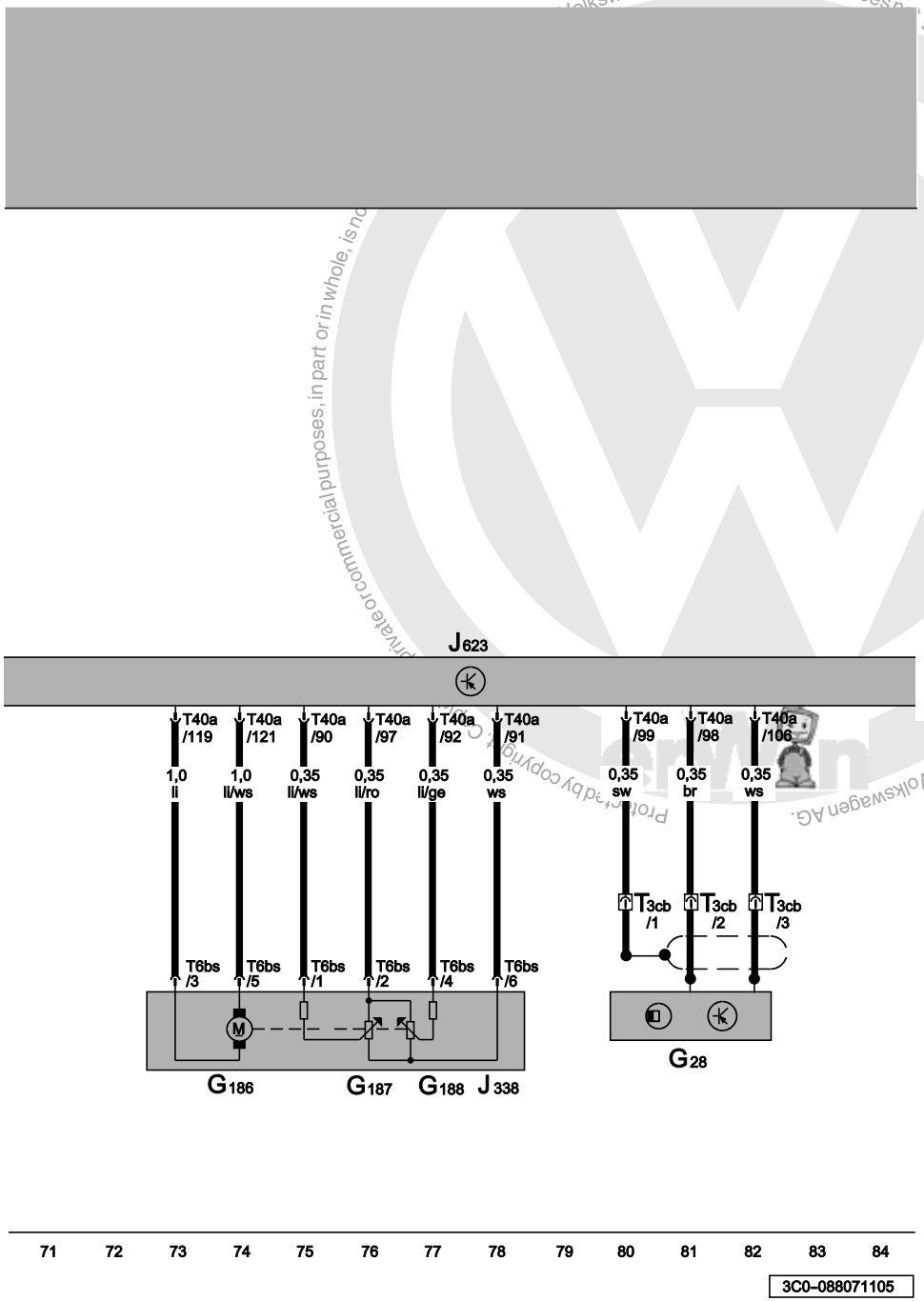
G61	Knock sensor 1
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
SC25	Fuse 25 on fuse holder C
T2gn	2-pin connector
T2go	2-pin connector
T2gp	2-pin connector
T2gq	2-pin connector
T2gr	2-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40a	40-pin connector
D180	Connection (87a), in engine compartment wiring harness
*	from November 2005
**	up to November 2005



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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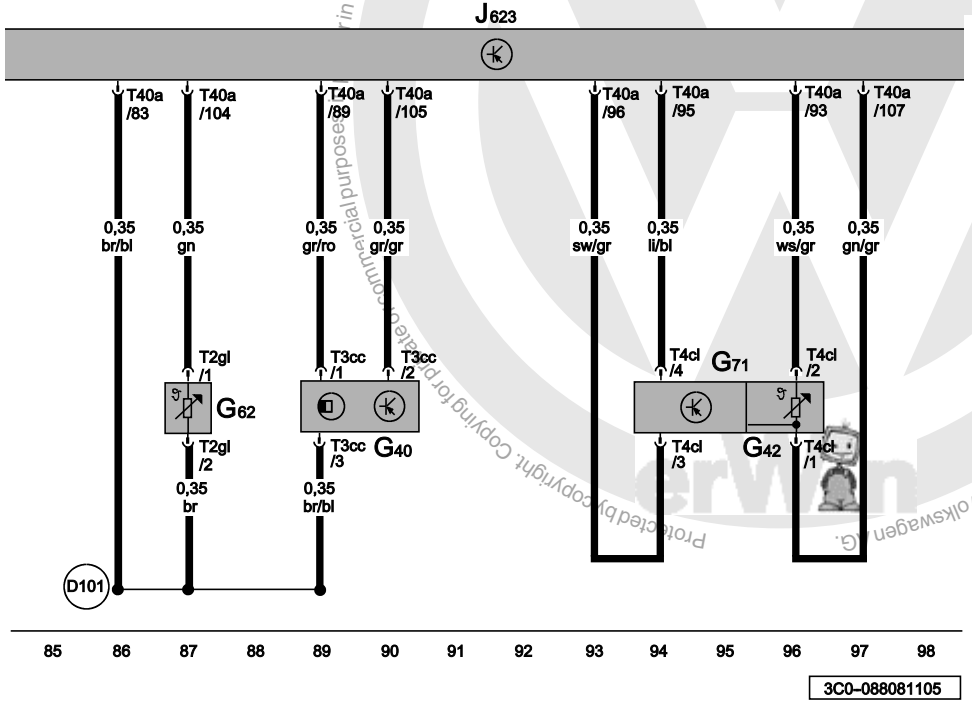
Engine control unit, throttle valve module, engine speed sender

G28	Engine speed sender
G186	Throttle valve drive (electric power control)
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J623	Engine control unit
T3cb	3-pin connector, grey
T6bs	6-pin connector, black
T40a	40-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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gr	=	grey
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rs	=	pink

Engine control unit, Hall sender, intake manifold pressure sender

G40	Hall sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G71	Intake manifold pressure sender
J623	Engine control unit
T2gl	2-pin connector
T3cc	3-pin connector
T4cl	4-pin connector
T40a	40-pin connector
D101	Connection 1, in engine compartment wiring harness

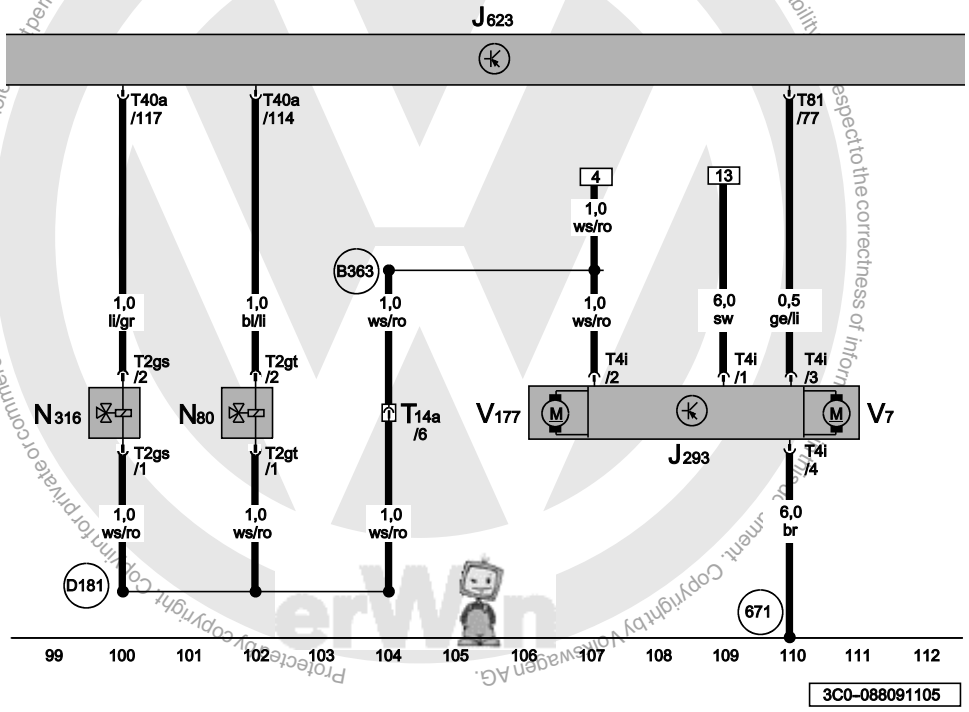


ws	=	white
sw	=	black
ro	=	red
br	=	brown
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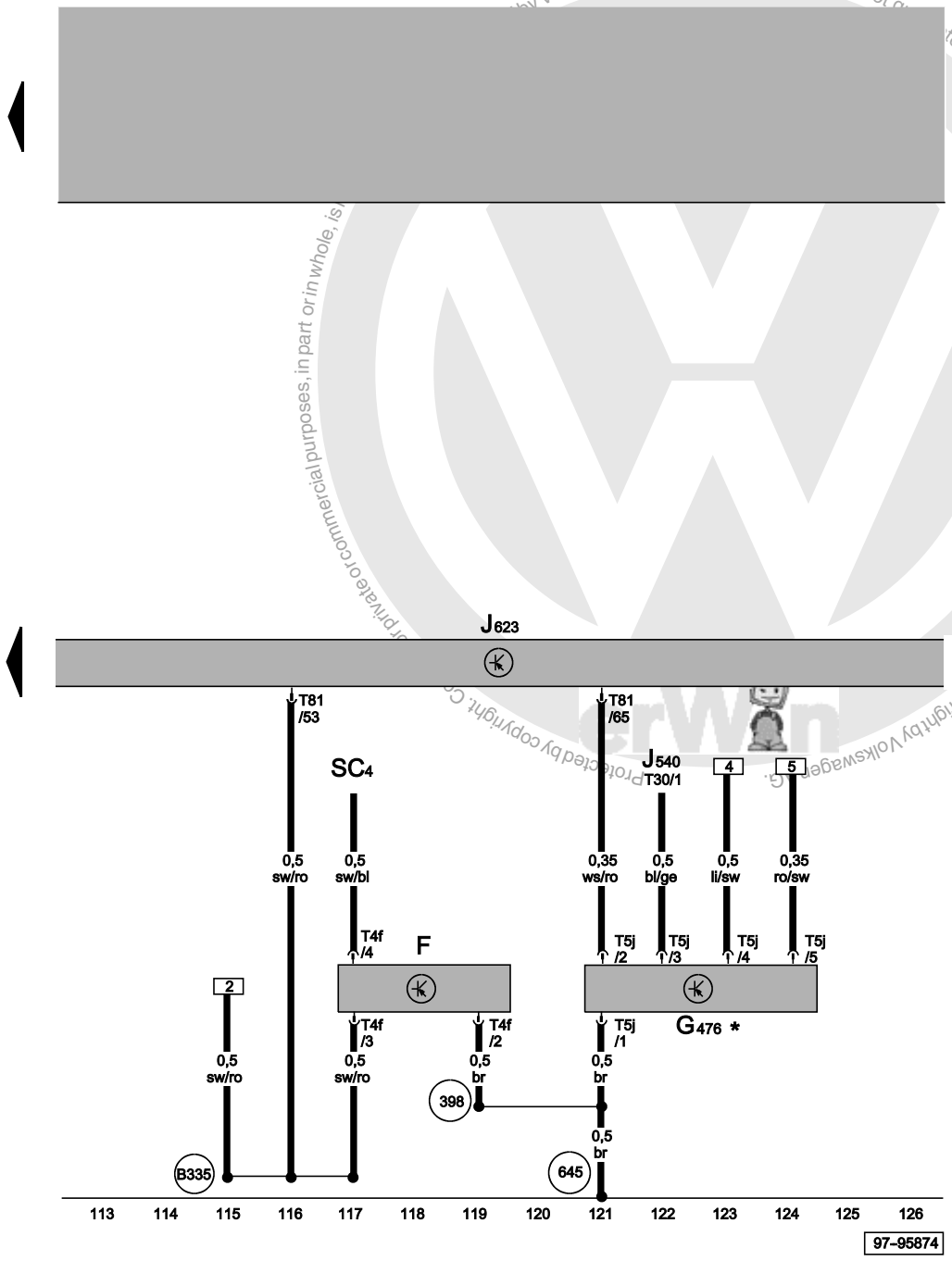
Engine control unit, radiator fan control unit, activated charcoal filter system solenoid valve 1, intake manifold flap valve

J293	Radiator fan control unit
J623	Engine control unit
N80	Activated charcoal filter system solenoid valve 1
N316	Intake manifold flap valve
T2gs	2-pin connector
T2gt	2-pin connector
T4i	4-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T40a	40-pin connector
T81	81-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B363	Positive connection 14 (87a), in main wiring harness
D181	Connection 2 (87a), in engine compartment wiring harness



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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ge	=	yellow
or	=	orange
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Engine control unit, brake light switchbrake light switch, clutch position sender

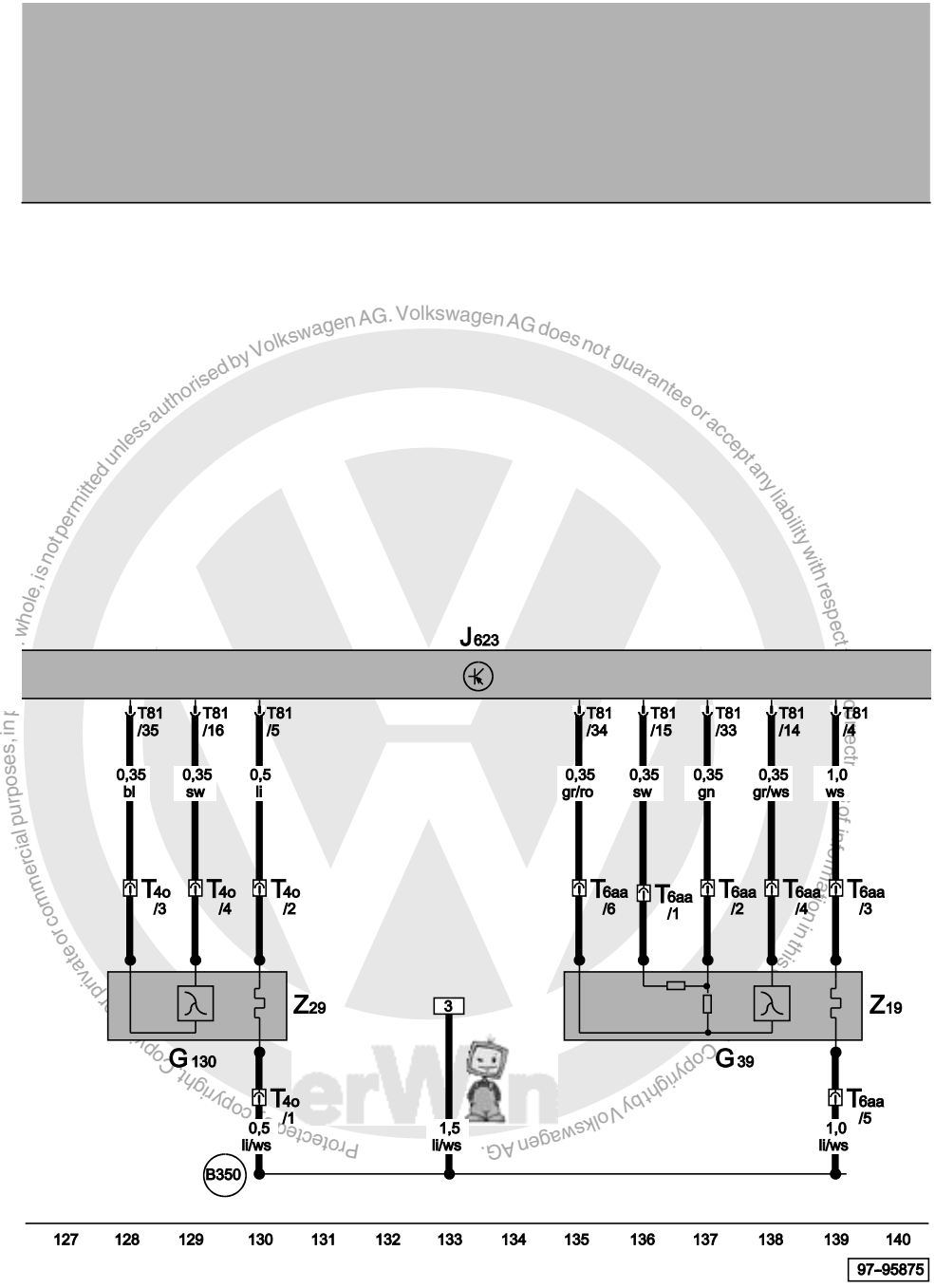
F	Brake light switch
G476	Clutch position sender
J540	Electric park and handbrake control unit
J623	Engine control unit
SC4	Fuse 4 on fuse holder C
T4f	4-pin connector
T5j	5-pin connector
T30	30-pin connector
T81	81-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
*	only models with manual gearbox

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Engine control unit, lambda probe, lambda probe heater

G39	Lambda probe
G130	Lambda probe after catalytic converter
J623	Engine control unit
T4o	4-pin connector, black, coupling point lambda probe
T6aa	6-pin connector, black, coupling point lambda probe
T81	81-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
B350	Positive connection 1 (87a), in main wiring harness

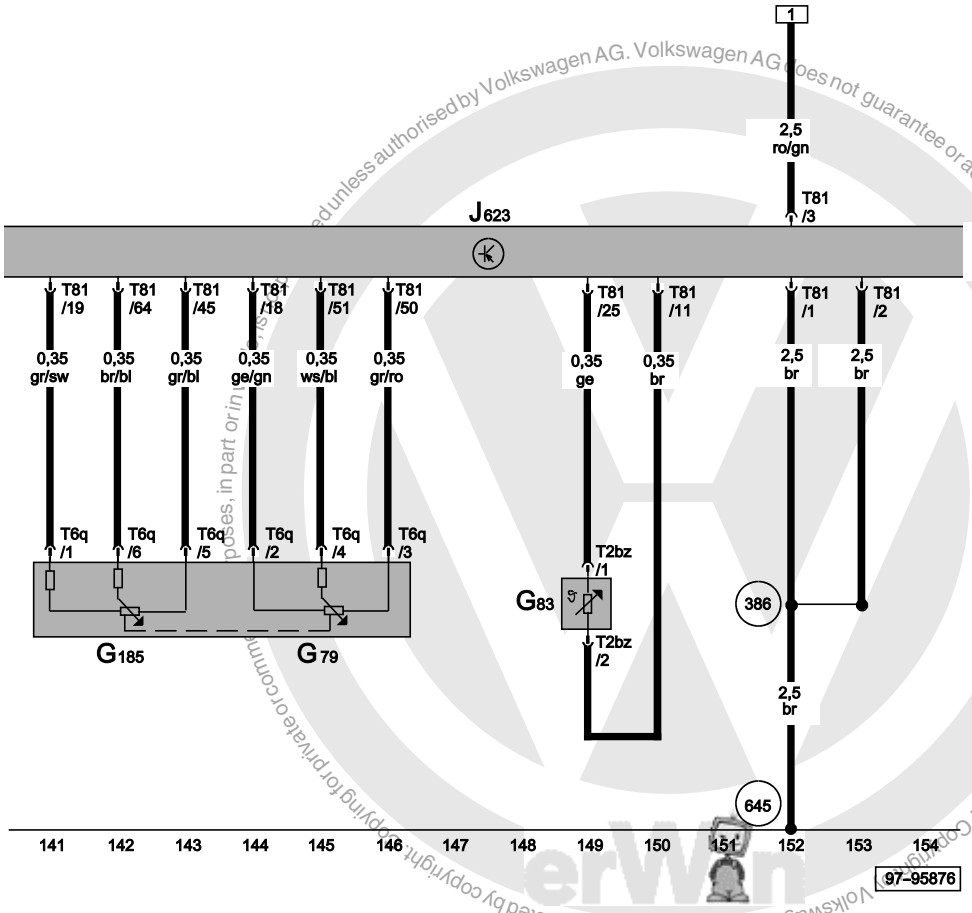


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sw	=	black
ro	=	red
br	=	brown
gn	=	green
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or	=	orange
rs	=	pink

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Engine control unit, accelerator position sender, accelerator position sender 2

G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J623	Engine control unit
T2bz	2-pin connector
T6q	6-pin connector
T81	81-pin connector
386	Earth connection 21, in main wiring harness
645	Earth point 1, on bulkhead



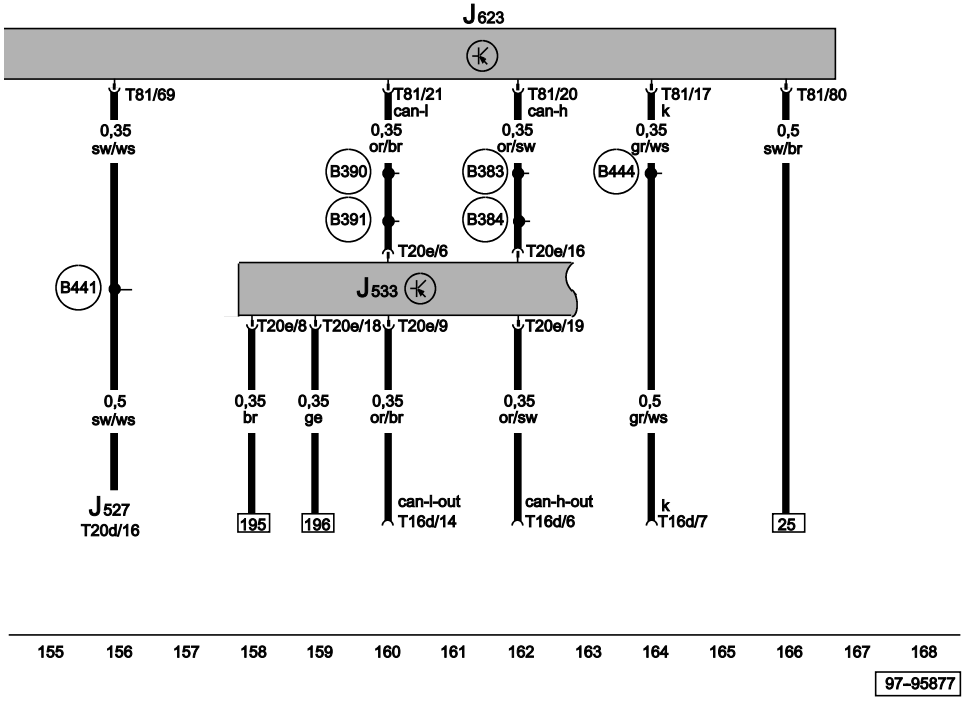
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Engine control unit, data bus diagnostic interface, self-diagnosis connection

J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J623	Engine control unit
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T20d	20-pin connector
T81	81-pin connector
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

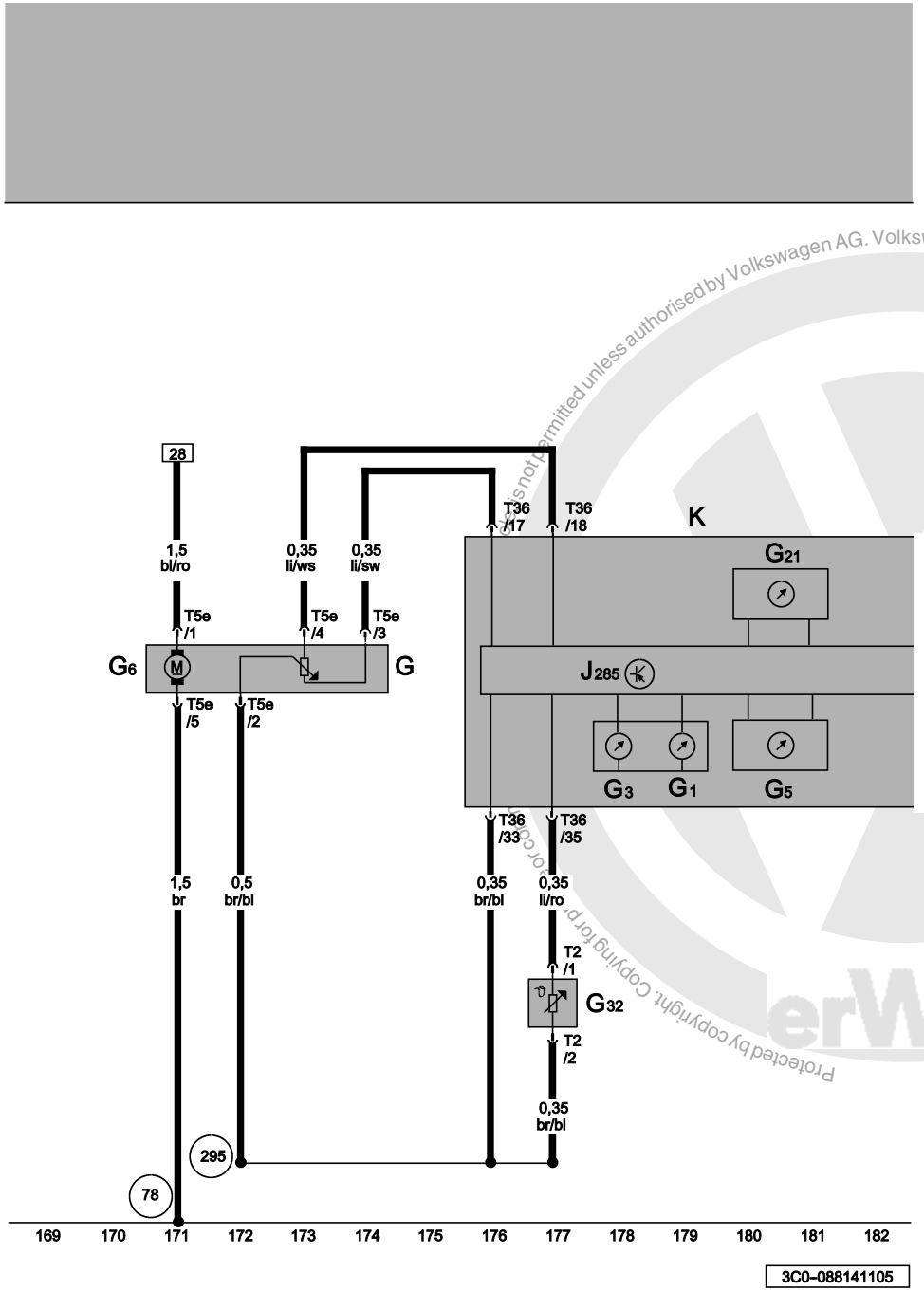


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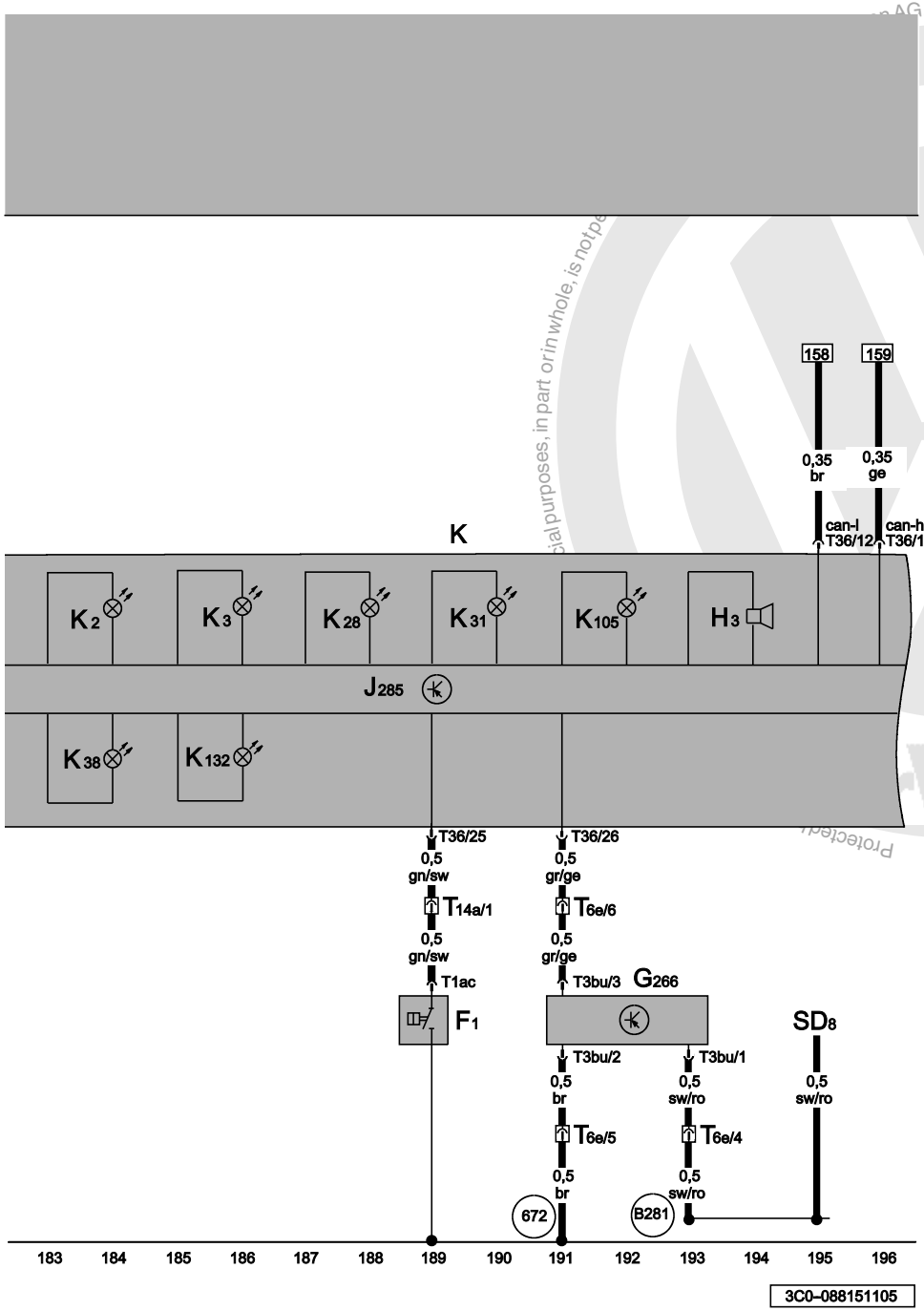
Dash panel insert, fuel gauge, fuel system pressurisation pump, rev. counter, speedometer

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
K	Dash panel insert
T2	2-pin connector
T5e	5-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Dash panel insert, warning lamps, oil pressure switch, buzzer or gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electric power control fault lamp
SD8	Fuse 8 on fuse holder D
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, coupling point 1 in left engine compartment
T36	36-pin connector
(672)	Earth point 2, on front of left longitudinal member
(B281)	Positive connection 5 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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1.9 l/77 kW - Turbodiesel, engine code BXE

From May 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

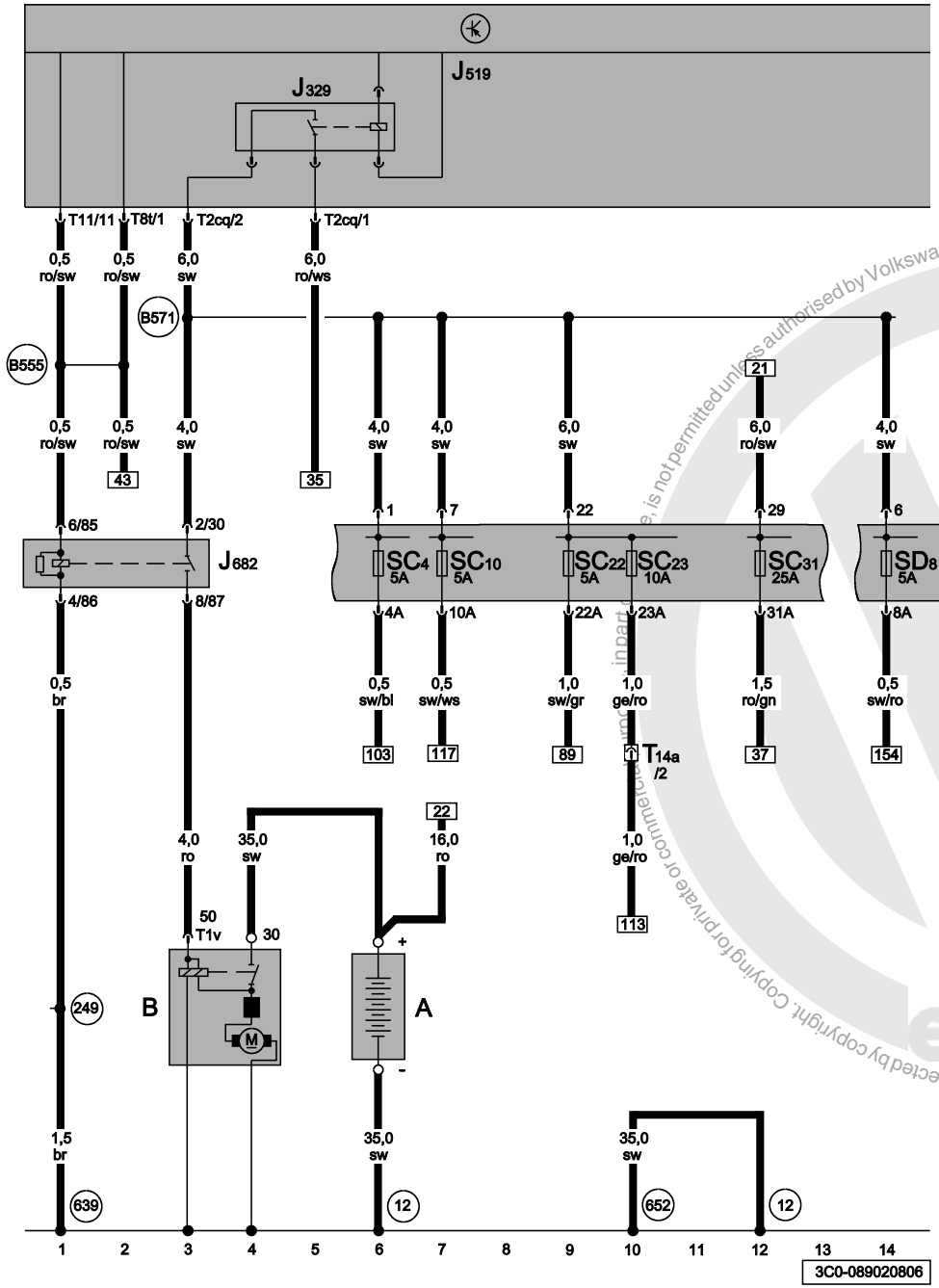
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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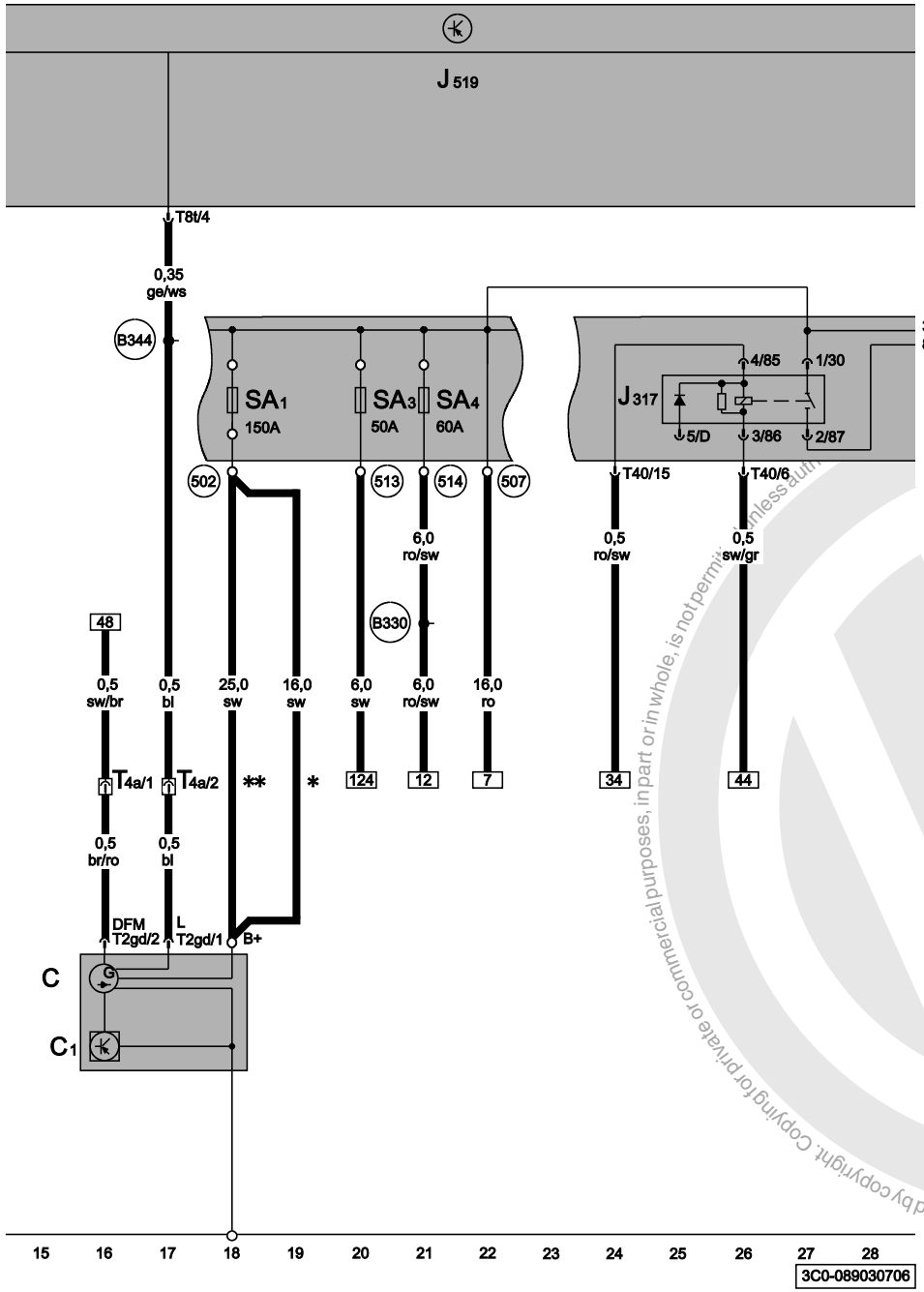


Battery, starter, terminal 15 voltage supply relay 2, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
J329	Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38 in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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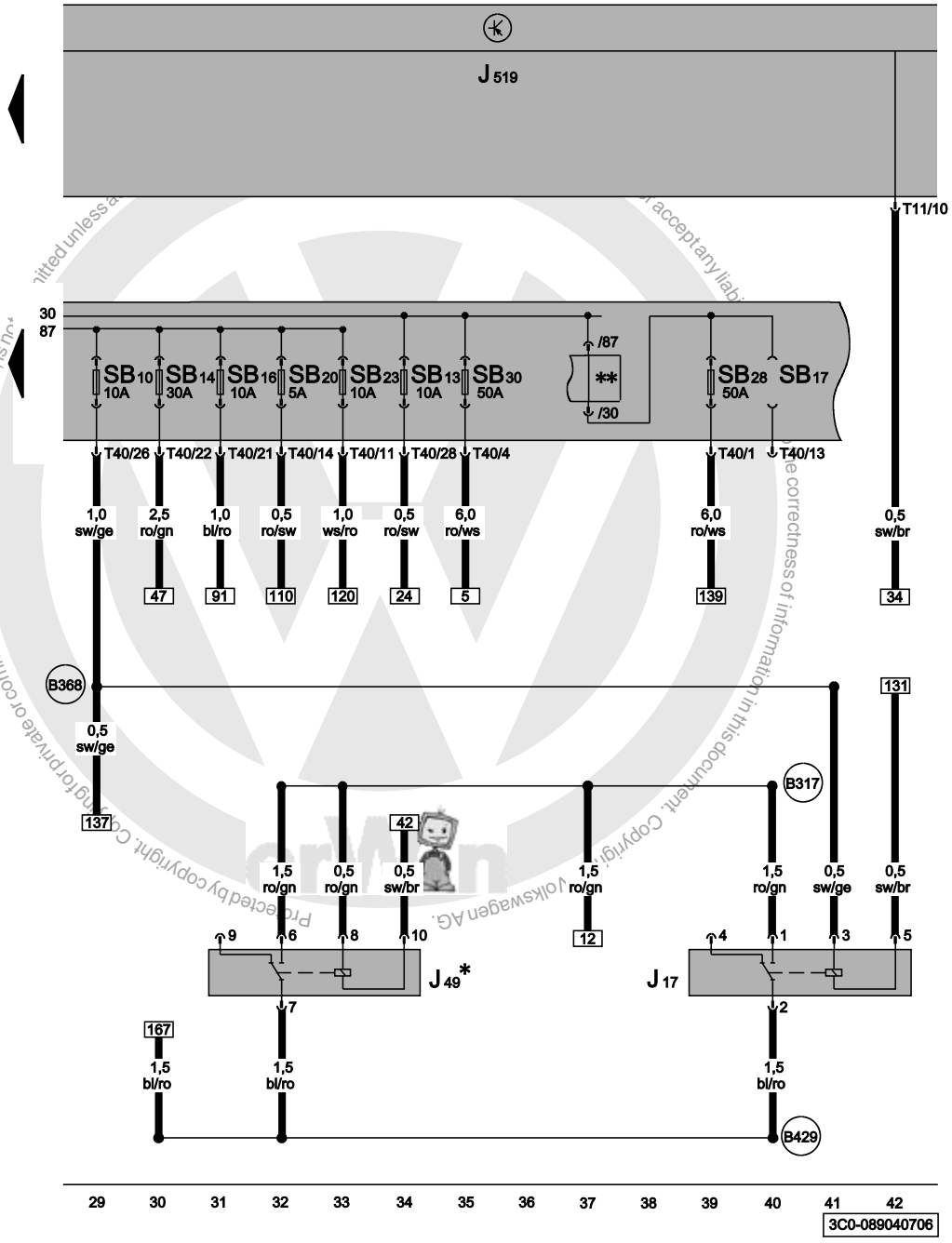


Alternator, terminal 30 voltage supply relay, fuses SA

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on fuse holder on battery
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	only models with 110 A alternator
**	only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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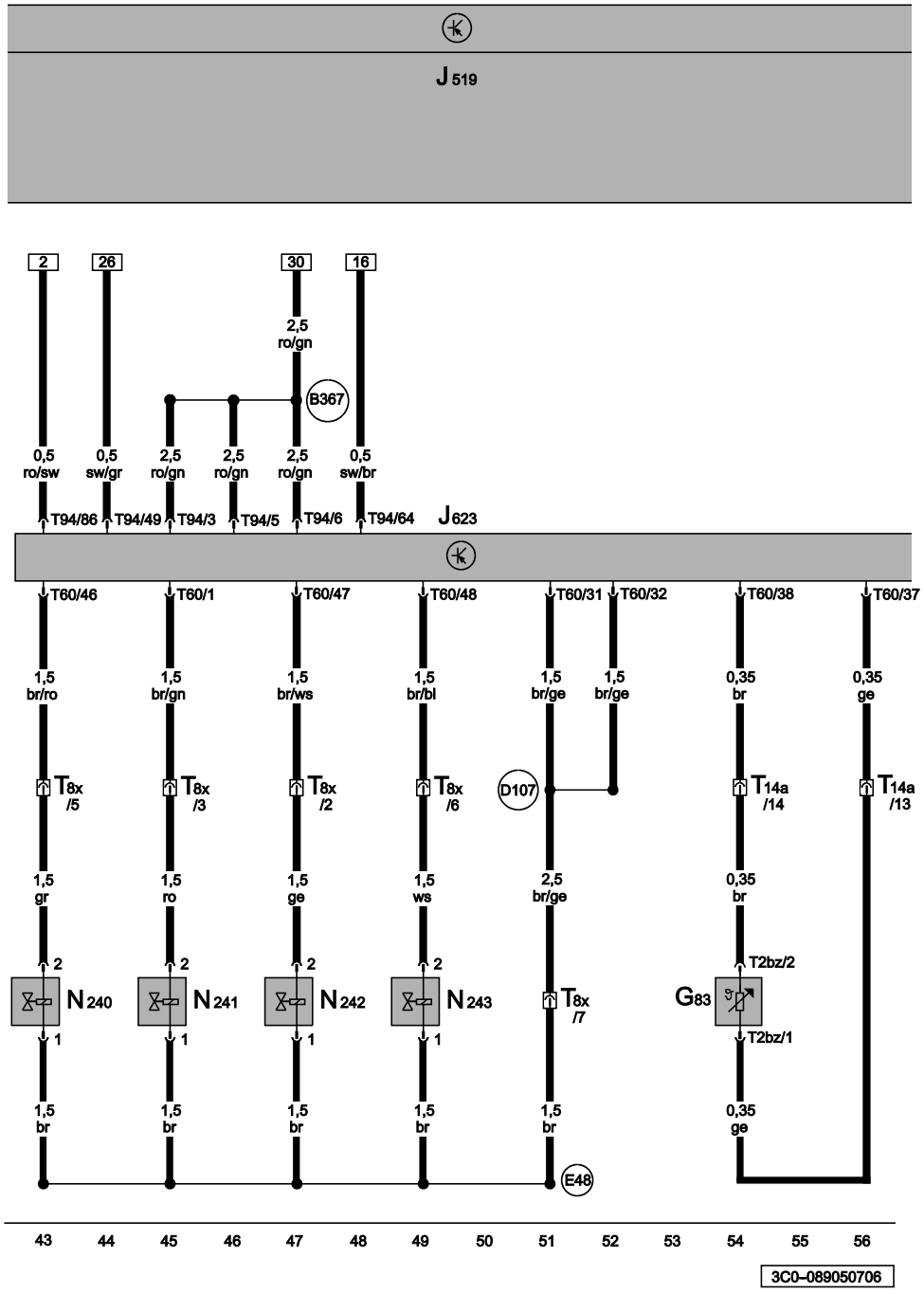


Fuel pump relay, electric fuel pump 2 relay, fuses SB

J17	Fuel pump relay, on relay carrier under dash panel on left (404)
J49	Electric fuel pump 2 relay, on relay carrier under left dash panel (404)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only auxiliary coolant heater
**	push-in bridge on the relay locations R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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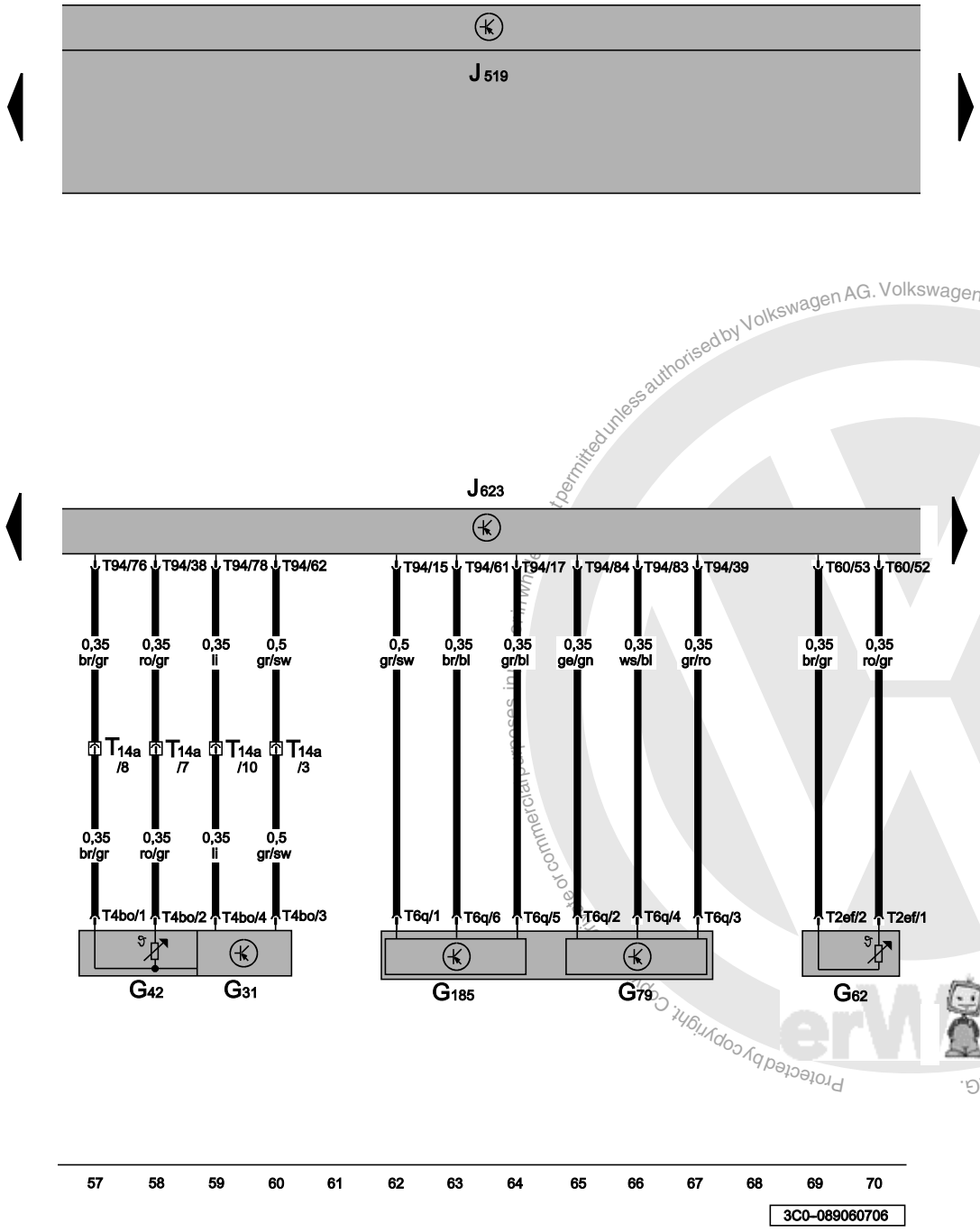


Engine control unit, radiator outlet coolant temperature sender, unit injector valves, No. 1 cyl. to No. 4

G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
T2bz	2-pin connector
T8x	8-pin connector, near injectors
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D107	Connection 5, in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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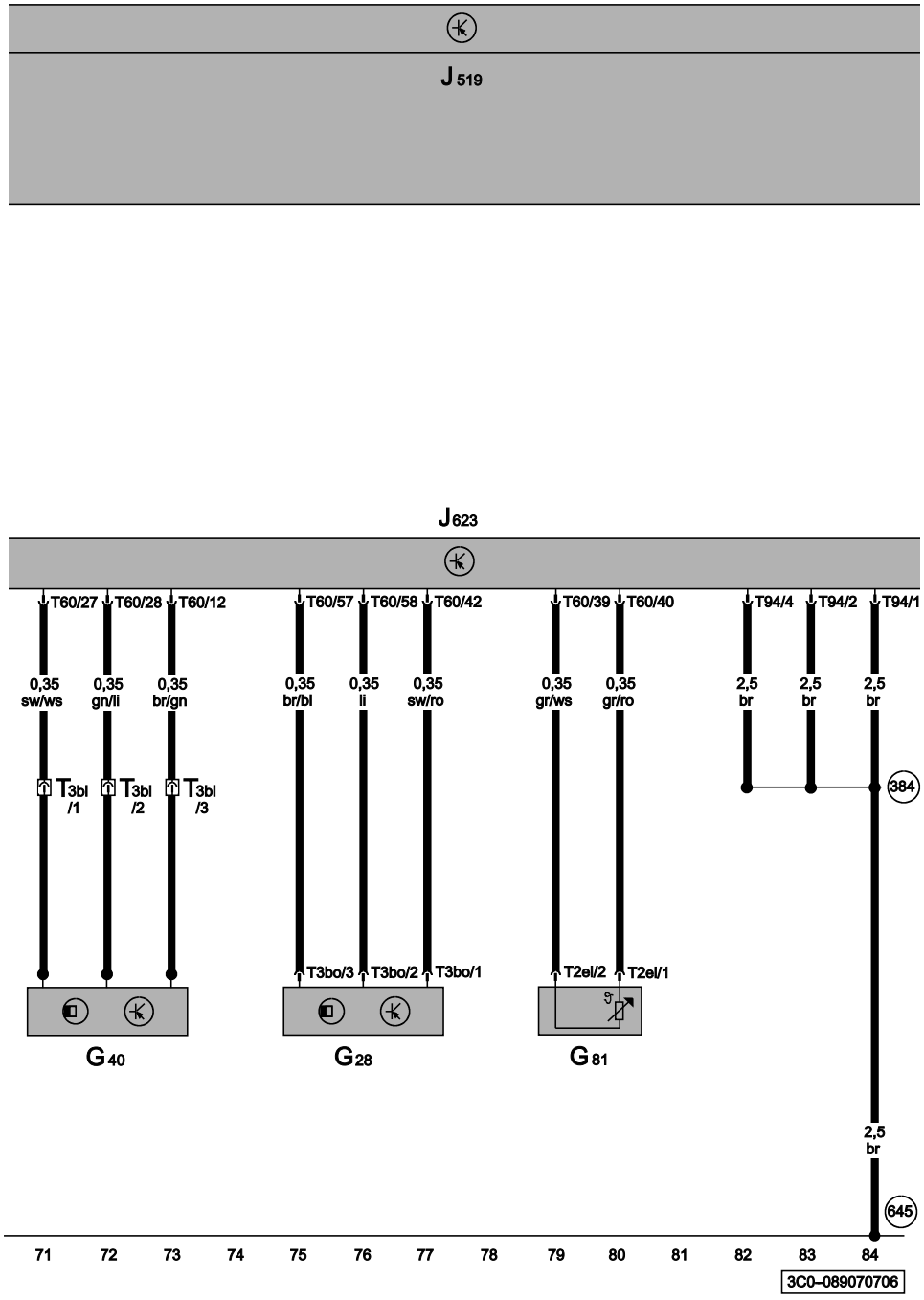


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender 2, coolant temperature sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2ef	2-pin connector, black
T4bo	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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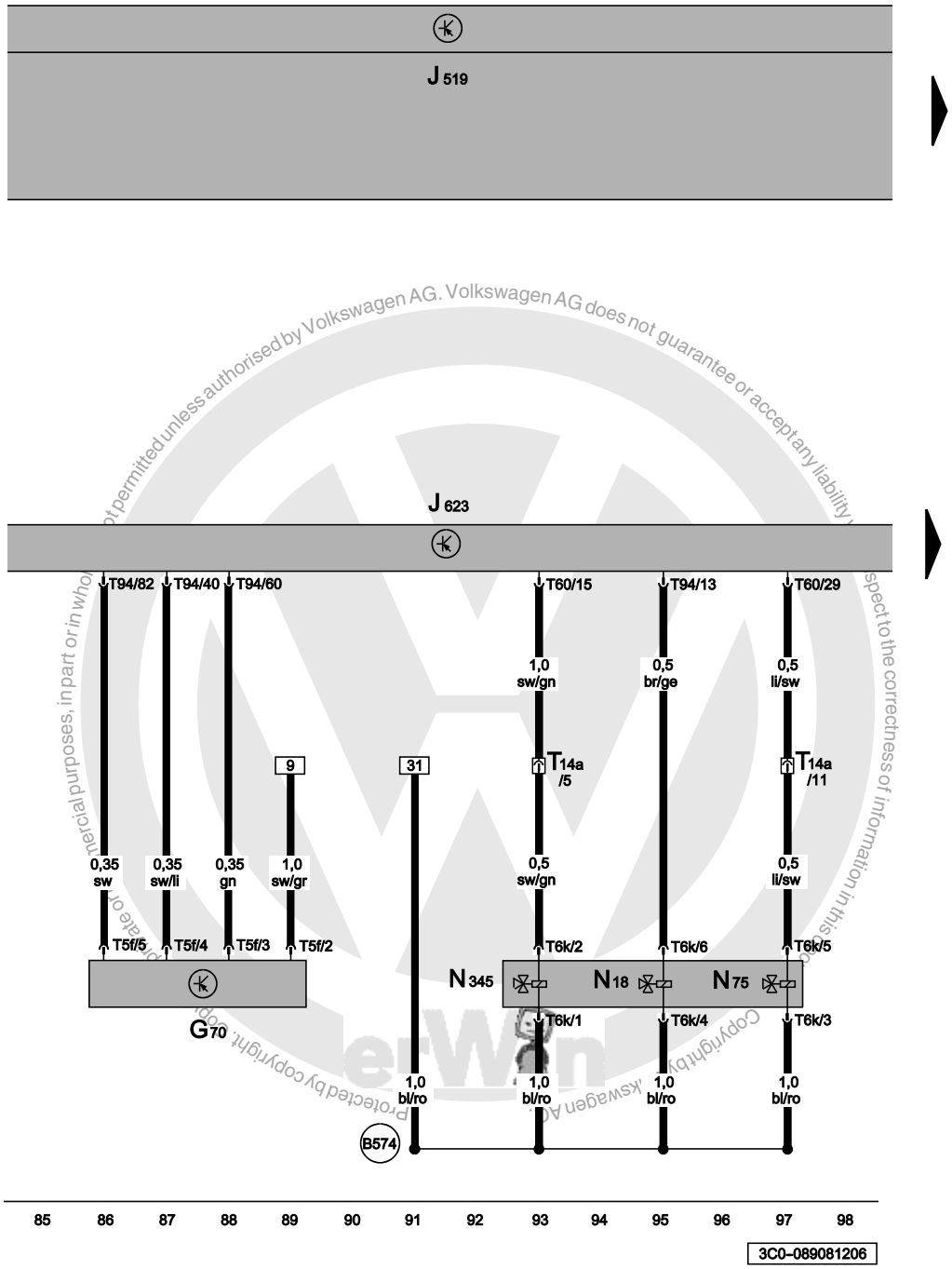


Engine control unit, engine speed sender, Hall sender, fuel temperature sender

G28	Engine speed sender
G40	Hall sender
G81	Fuel temperature sender
J519	Onboard supply control unit
J623	Engine control unit
T2el	2-pin connector, black
T3bl	3-pin connector, black
T3bo	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
384	Earth connection 19, in main wiring harness
645	Earth point 1, bulkhead

ws	=	white
sw	=	black
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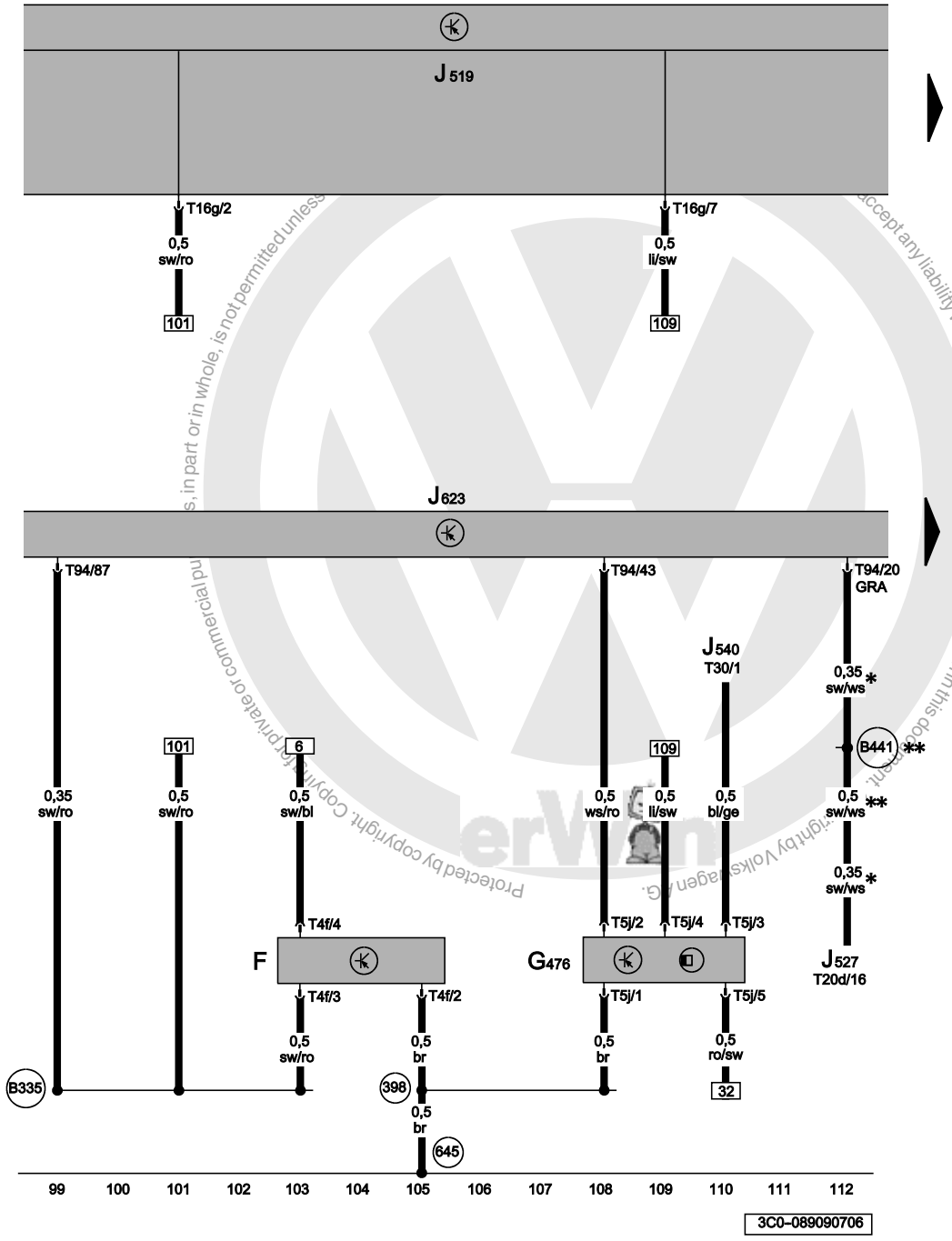


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Engine control unit, exhaust gas recirculation valve, air mass meter, charge pressure control solenoid valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler change-over valve
T5f	5-pin connector
T6k	6-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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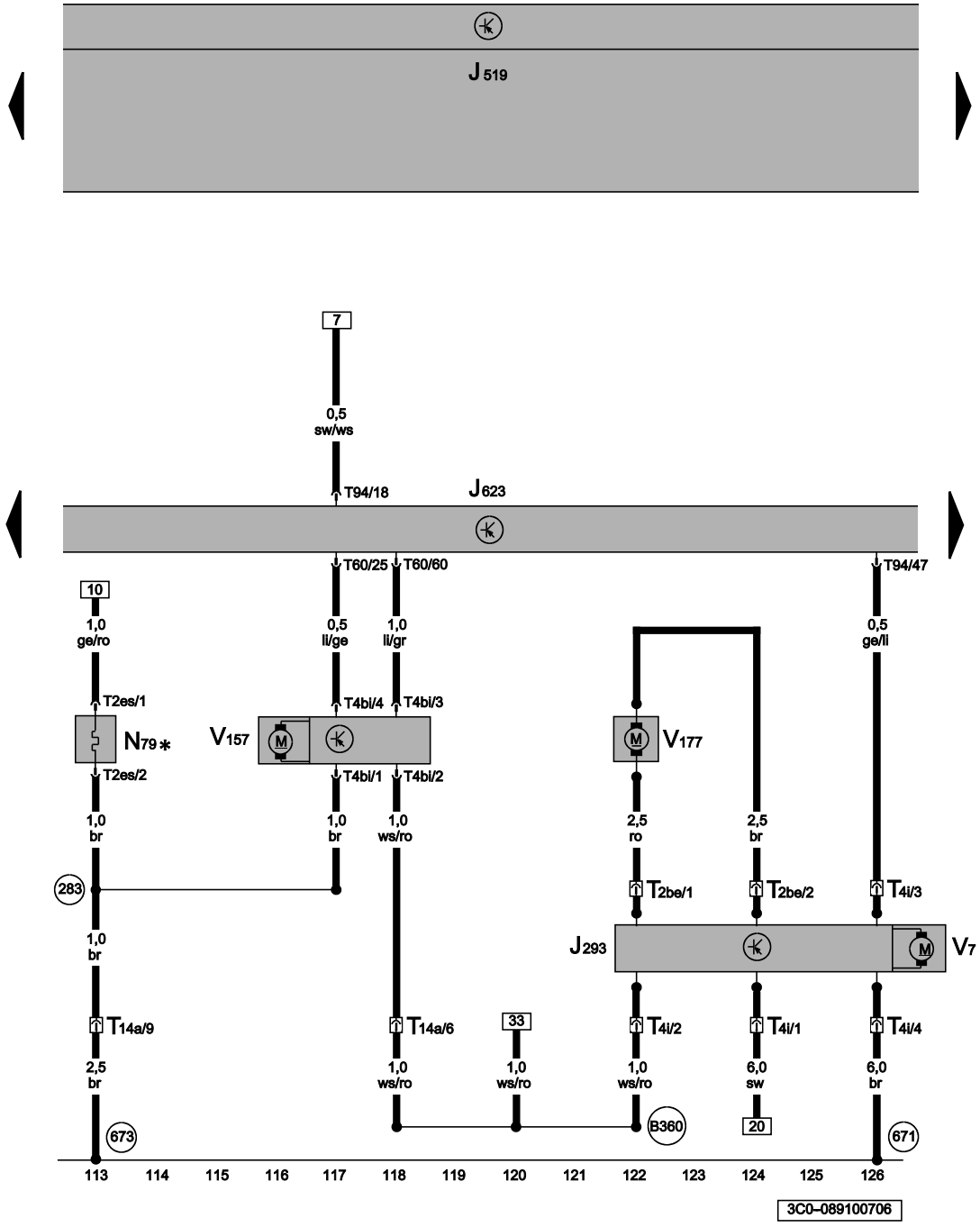


Engine control unit, clutch position sender, brake light switch, brake pedal switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, bulkhead
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	for models with CCS only
**	models with adaptive cruise control only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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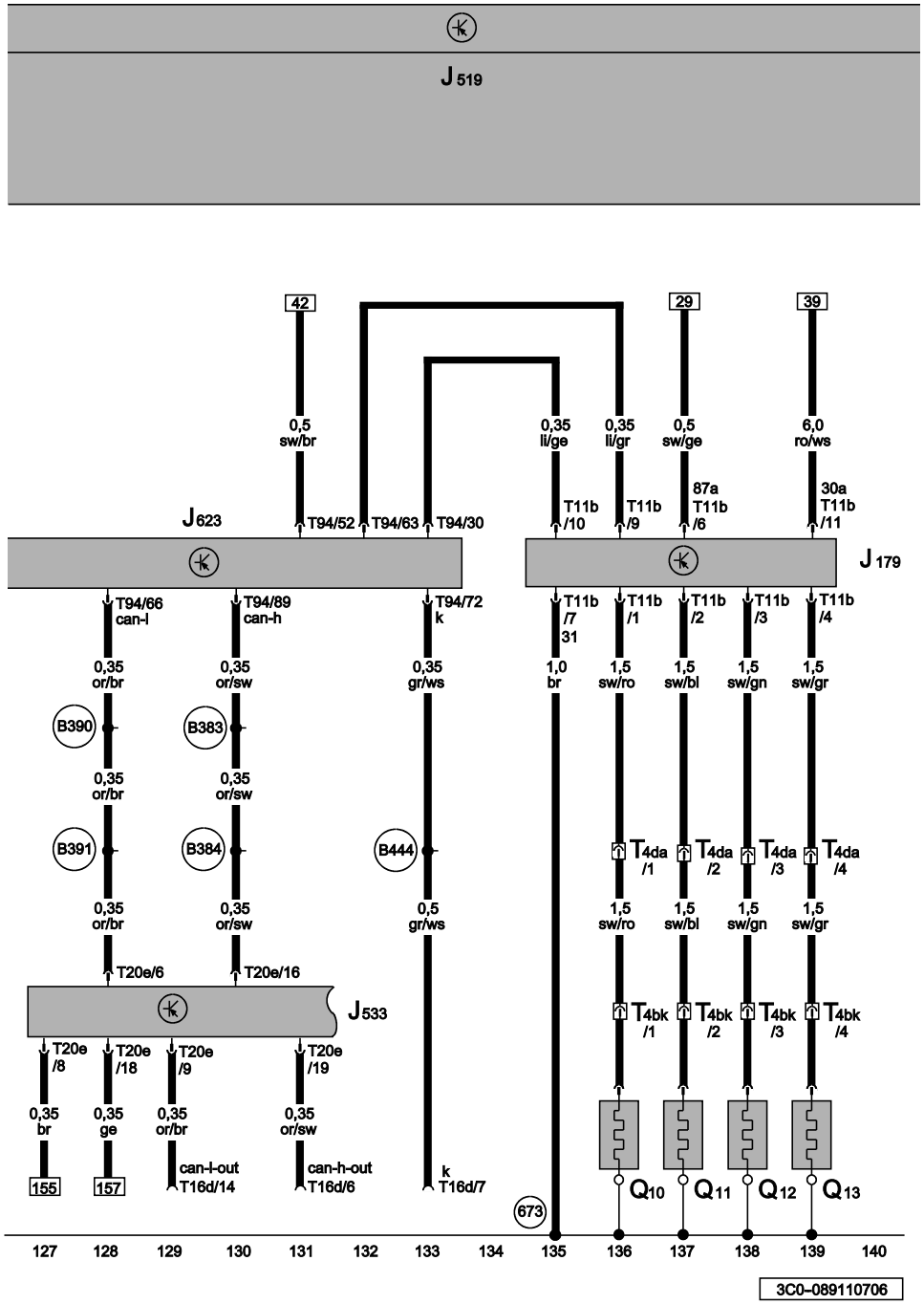


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, heater element for crankcase breather, radiator fan, intake manifold flap motor

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N79	Heater element for crankcase breather
T2be	2-pin connector, on lock carrier
T2es	2-pin connector
T4i	4-pin connector, black, coupling point radiator fan on centre lock carrier
T4bi	4-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V157	Intake manifold flap motor
V177	Radiator fan 2
283	Earth point 2, engine prewiring harness
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B360	Connection 11 (87a), in main wiring harness
*	models for cold countries only

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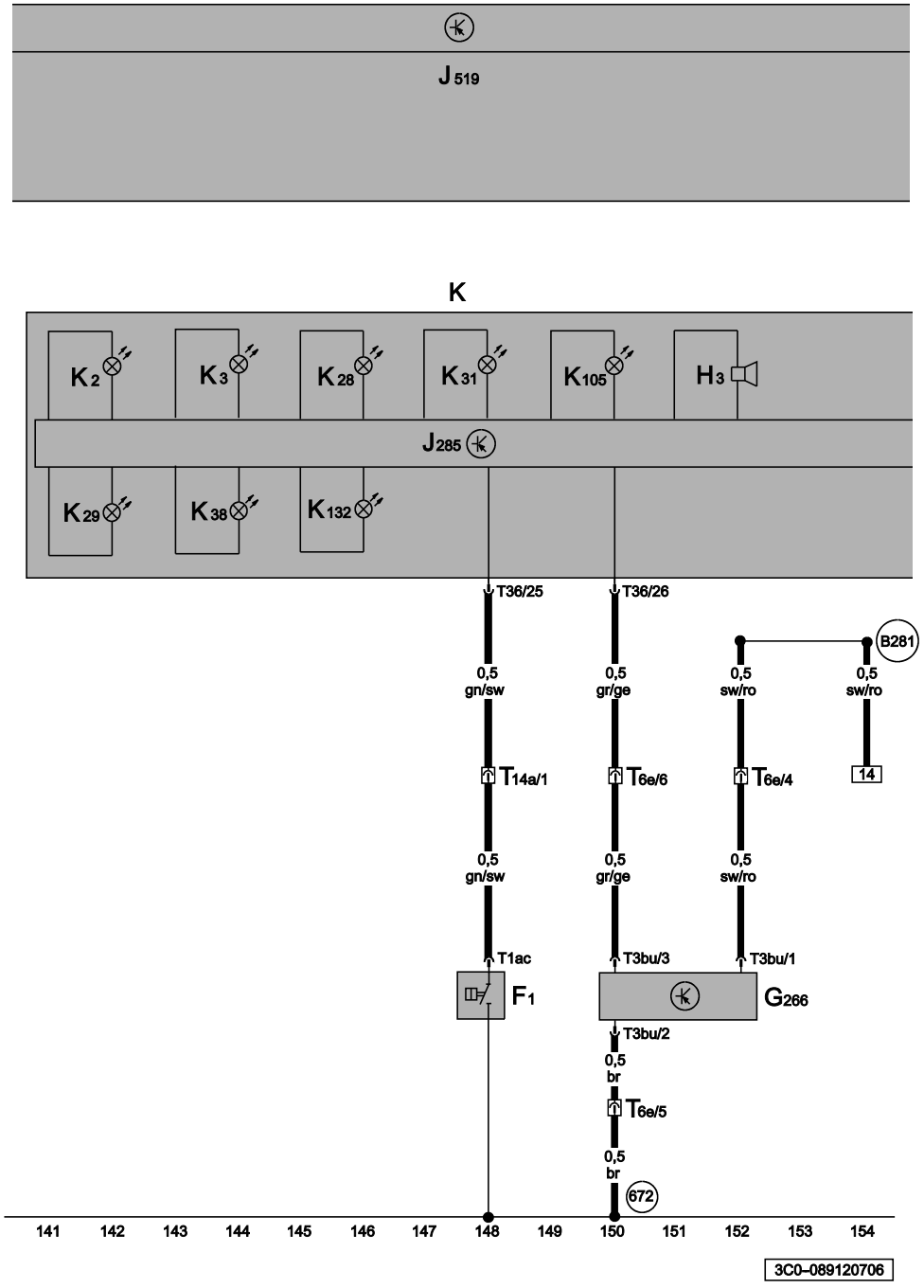


Engine control unit, Aautomatic glow period control unit, glow plugs 1-4, data bus diagnostic interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T4bk	4-pin connector, coupling point glow plugs
T4da	4-pin connector, black
T11b	11-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
673	Earth point 3, on front of left longitudinal member
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
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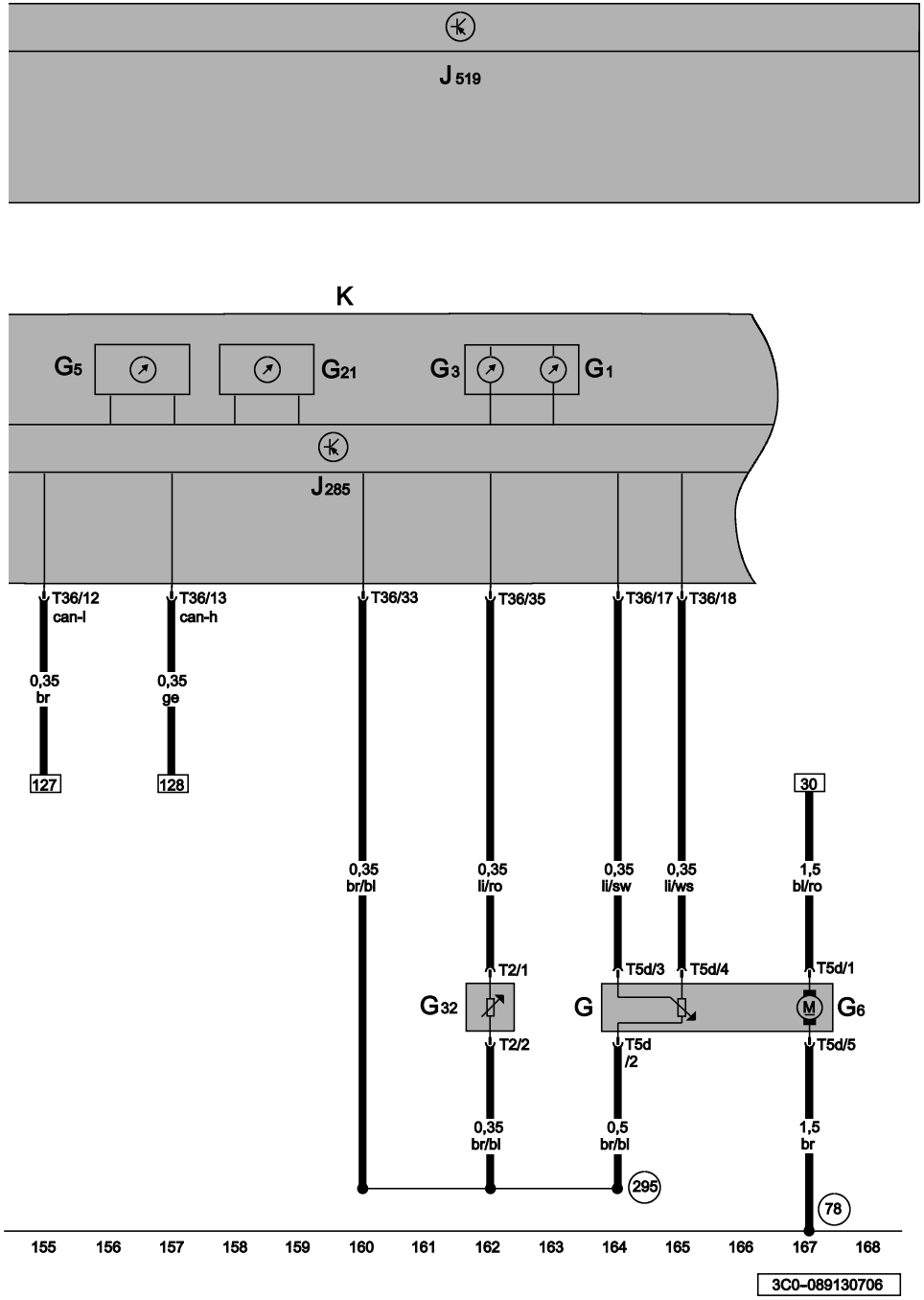


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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Dash panel insert, rev counter, speedometer, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T5d	5-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Convenience system

⇒ **Electrically adjustable and heated exterior mirrors**
⇒ **Anti-theft alarm system with interior monitoring**
⇒ **Window regulator front and rear**
⇒ **Exterior mirror turn signal**
⇒ **Central locking with remote control**

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

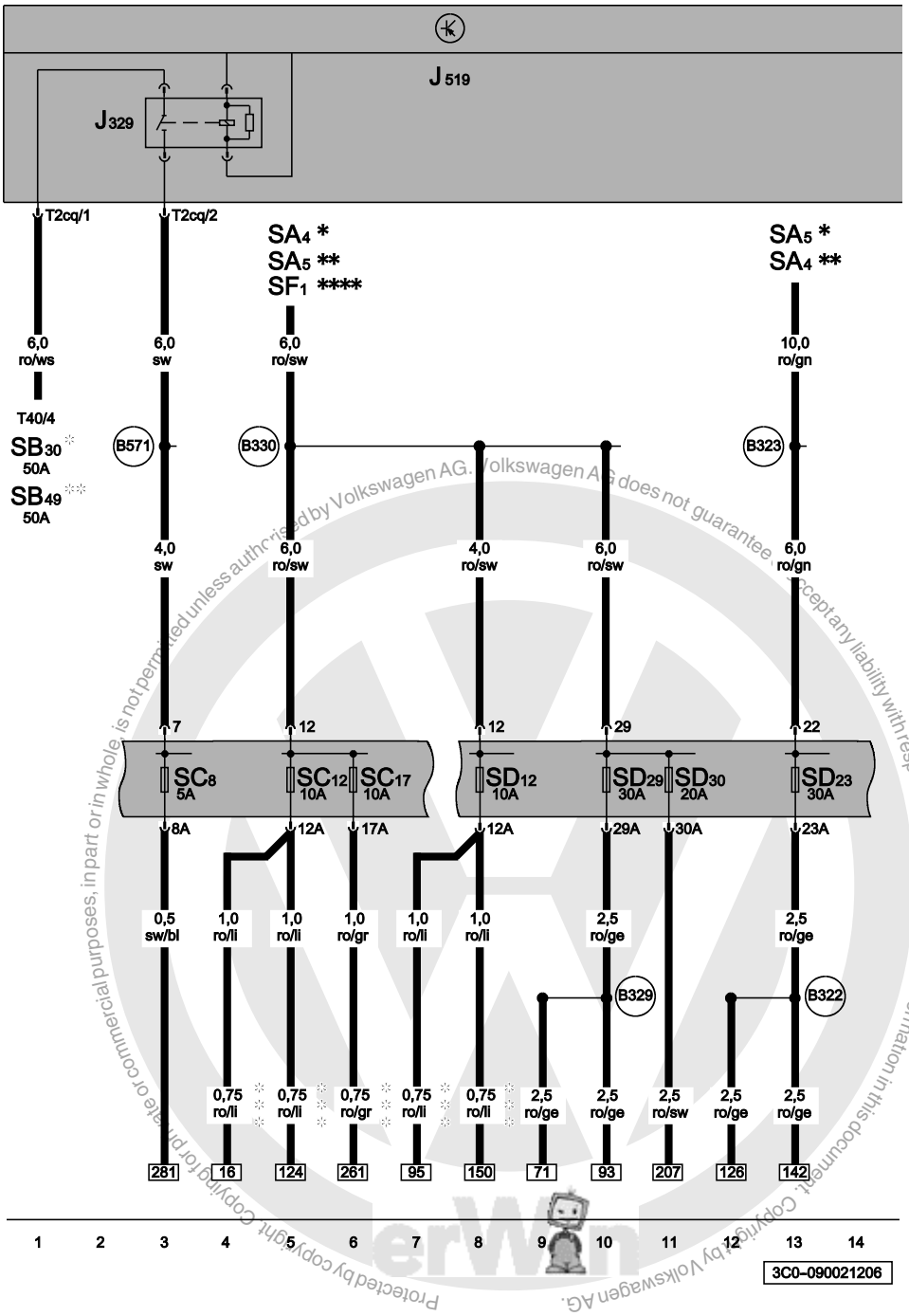
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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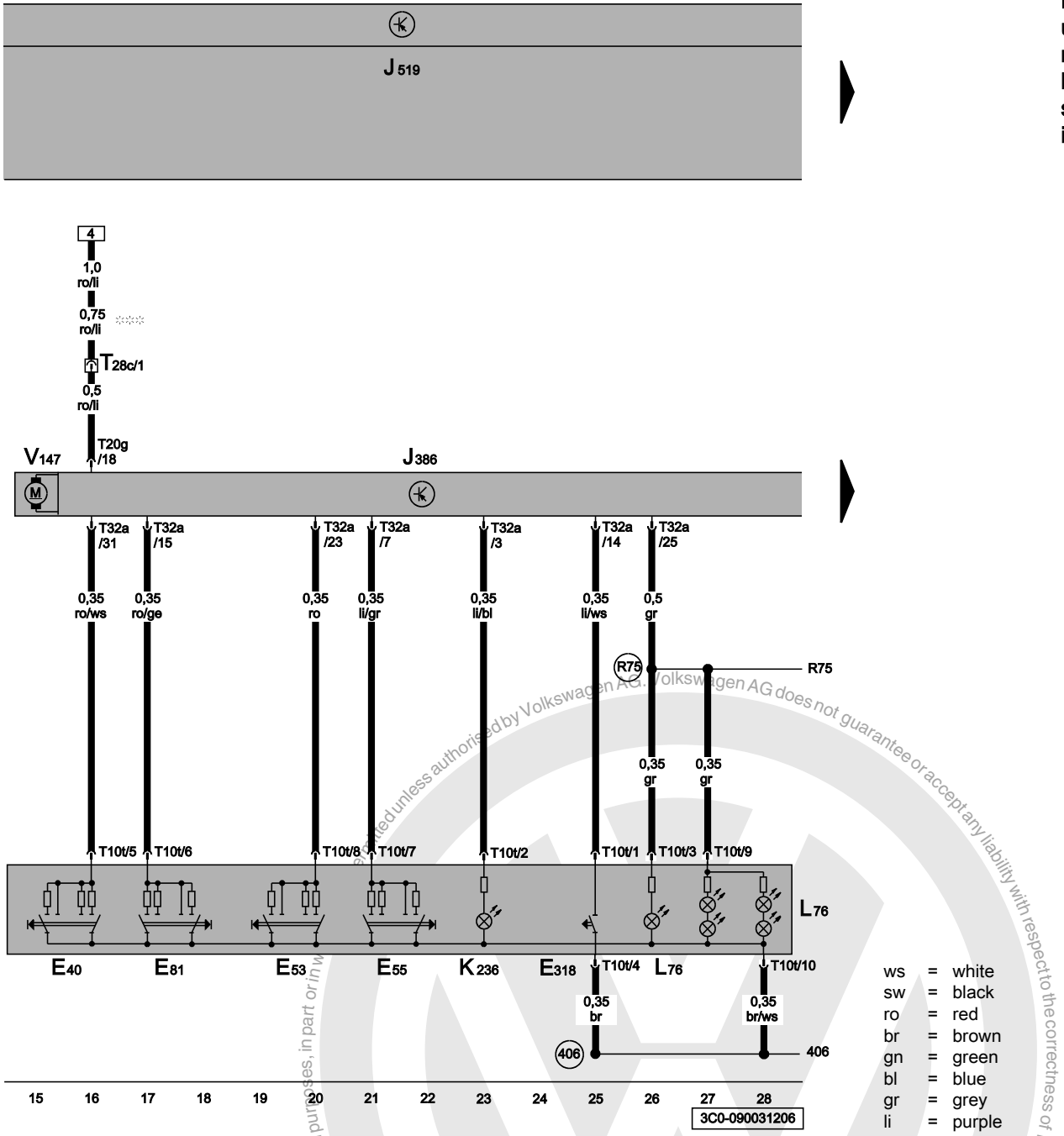


ws = white
sw = black
ro = red
br = brown
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gr = grey
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Terminal 15 voltage supply relay, onboard supply control unit, fuses

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC8	Fuse 8 on fuse holder C
SC12	Fuse 12 on fuse holder C
SC17	Fuse 17 on fuse holder C
SD12	Fuse 12 on fuse holder D
SD23	Fuse 23 on fuse holder D
SD29	Fuse 29 on fuse holder D
SD30	Fuse 30 on fuse holder D
SF1	Fuse 1 in fuse holder F
T2cq	2-pin connector, brown
T40	40-pin connector, on E-box
B322	Connection 8 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness
B329	Connection 15 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B571	Connection 38 in main wiring harness
*	Fuses in E-box low
**	Fuses in E-box high
***	Applicable from November 2006
****	Only vehicles with engine code AXZ, BLV

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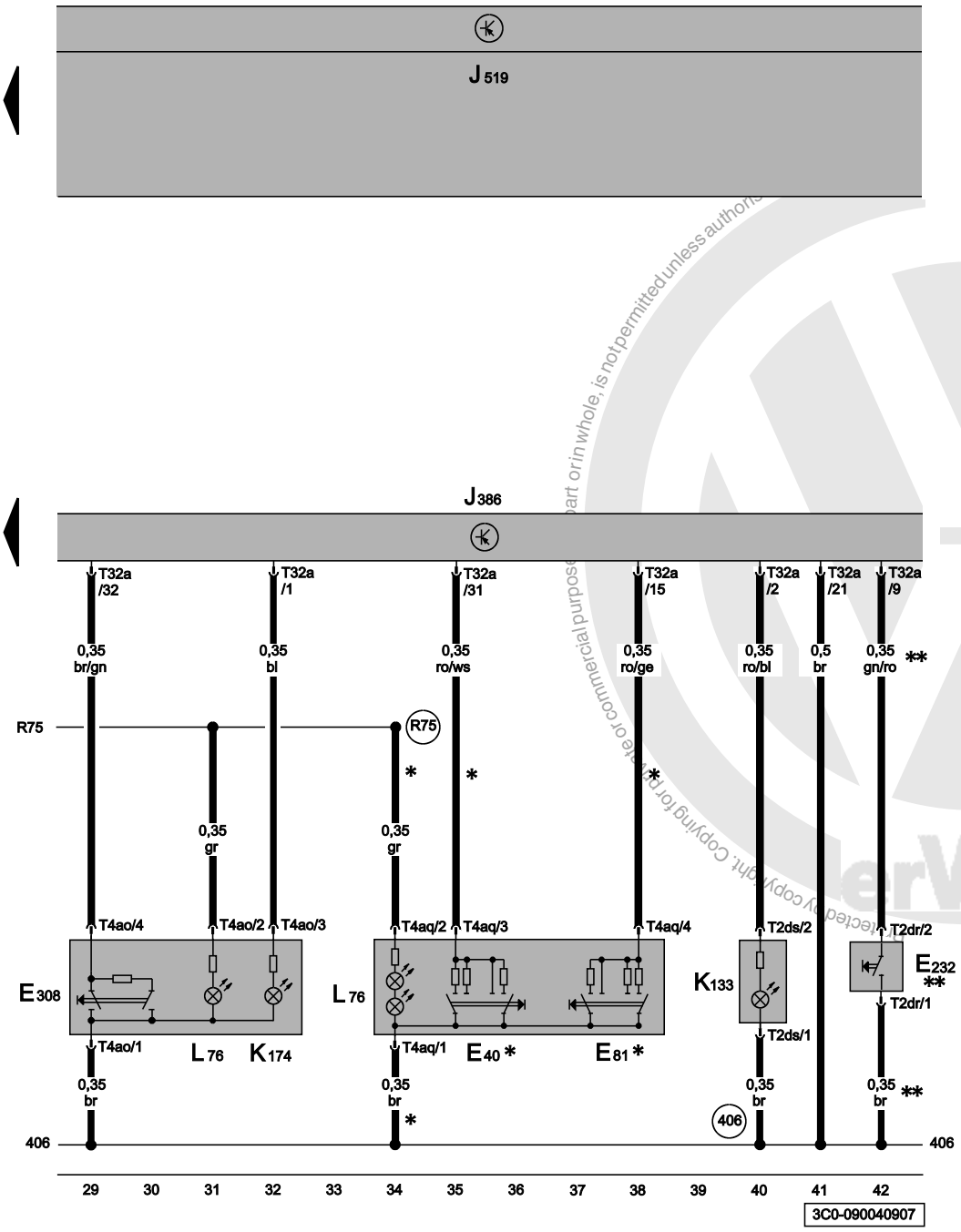
Driver door control unit, front left window regulator switch, rear left window regulator switch and rear right, in driver door

E40	Front left window regulator switch
E53	Rear left window regulator switch, in driver door
E55	Rear right window regulator switch, in driver door
E81	Front right window regulator switch in driver door
E318	Childproof lock button
J386	Driver door control unit
J519	Onboard supply control unit
K236	Warning light for activated childproof lock
L76	Button illumination bulb
T10t	10-pin connector
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
T32a	32-pin connector
V147	Driver side window regulator motor
(406)	Earth connection 3, in drive side door wiring harness
(R75)	Connection 1 (58d), in door control unit wiring harness
***	Applicable from November 2006

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gn	=	green
bl	=	blue
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Driver door control unit, central locking deadlock function warning lamp - SAFE-, driver side interior locking warning lamp, key operated switch to block release of rear lid remote



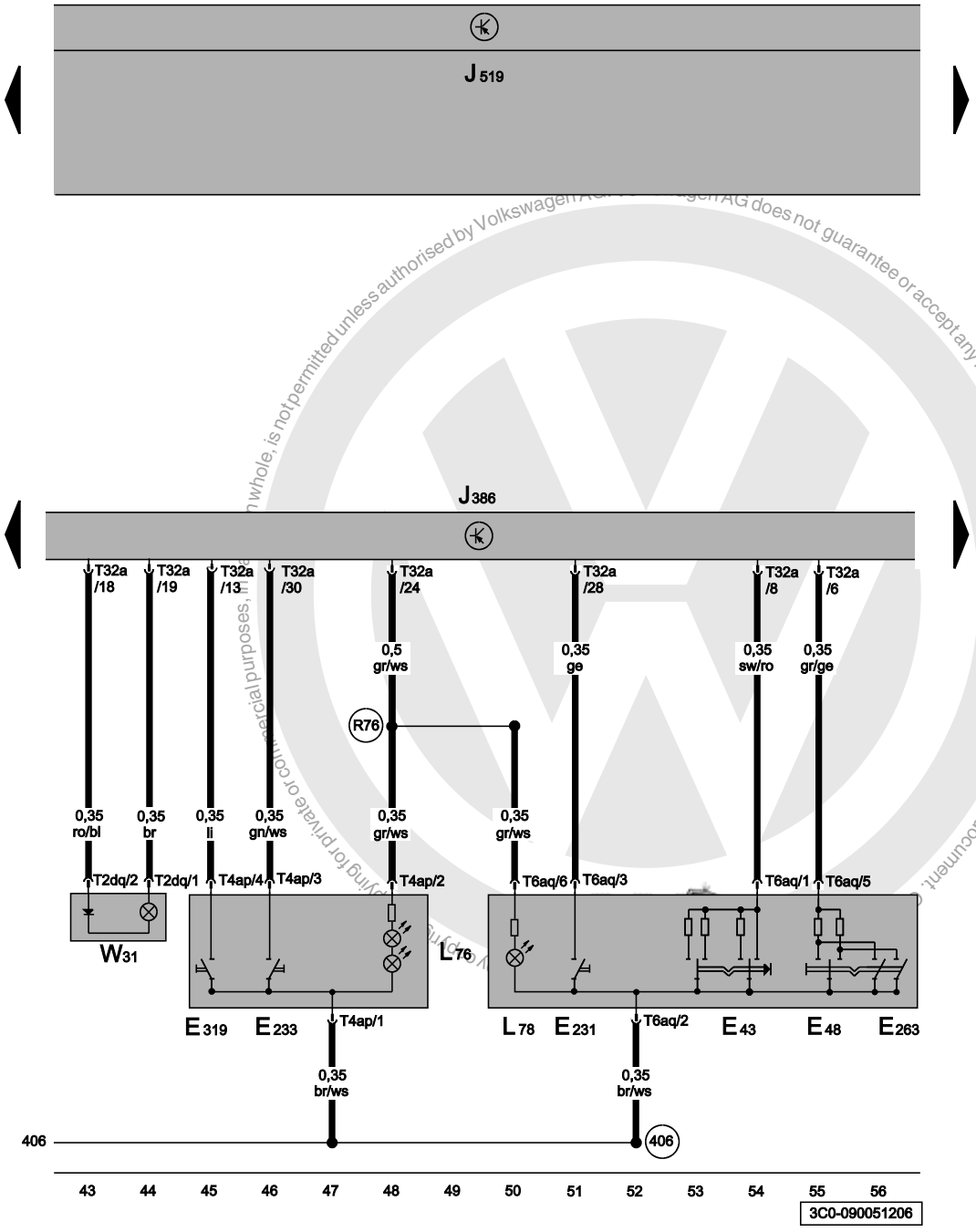
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ro = red
br = brown
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gr = grey
li = purple
ge = yellow
or = orange
rs = pink

E40 Front left window regulator switch
E81 Front right window regulator switch in driver door
E232 Key operated switch to block release of rear lid remote
E308 Driver side interior locking button for central locking system
J386 Driver door control unit
J519 Onboard supply control unit
K133 Central locking deadlock function warning lamp -SAFE-
K174 Driver side interior locking warning lamp
L76 Button illumination bulb
T2dr 2-pin connector
T2ds 2-pin connector
T4ao 4-pin connector
T4aq 4-pin connector
T32a 32-pin connector
406 Earth connection 3, in drive side door wiring harness
R75 Connection 1 (58d), in door control unit wiring harness
* Only vehicles with mechanical window regulators in rear
** Only for saloon models and American markets

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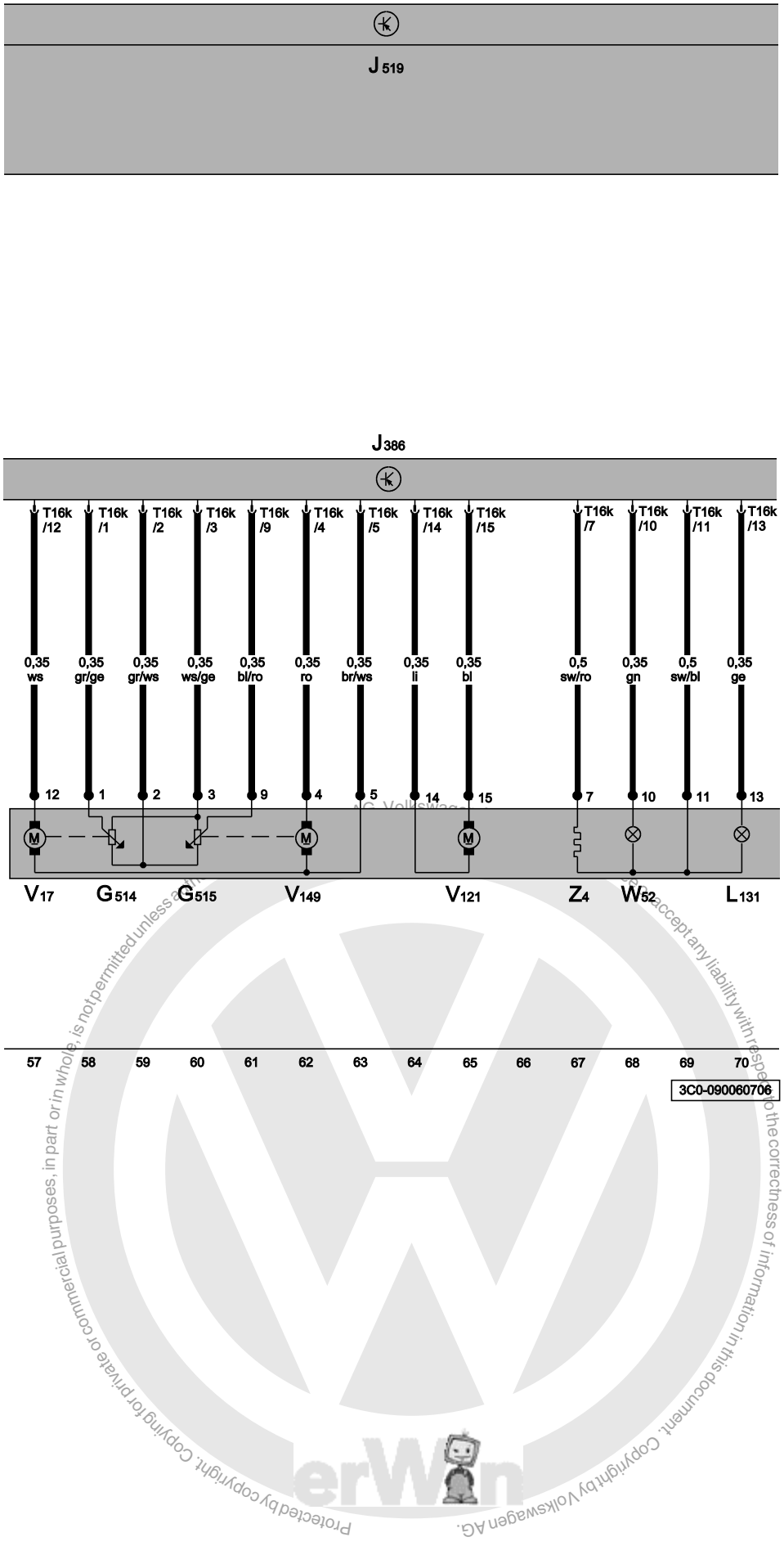
Driver door control unit, mirror adjustment switch, rear lid remote release button, fuel tank flap release button, front left entry light

E43	Mirror adjustment switch
E48	Mirror adjustment changeover switch
E231	Exterior mirror heater button
E233	Rear lid remote release button
E263	Fold-in mirror switch
E319	Fuel tank flap release button
J386	Driver door control unit
J519	Onboard supply control unit
L76	Button illumination bulb
L78	Mirror adjustment switch illumination bulb
T2dq	2-pin connector
T4ap	4-pin connector
T6aq	6-pin connector
T32a	32-pin connector
W31	Front left entry light
406	Earth connection 5, in drive side door wiring harness
R76	Connection 2 (58d), in door control unit wiring harness



ws	=	white
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ro	=	red
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gn	=	green
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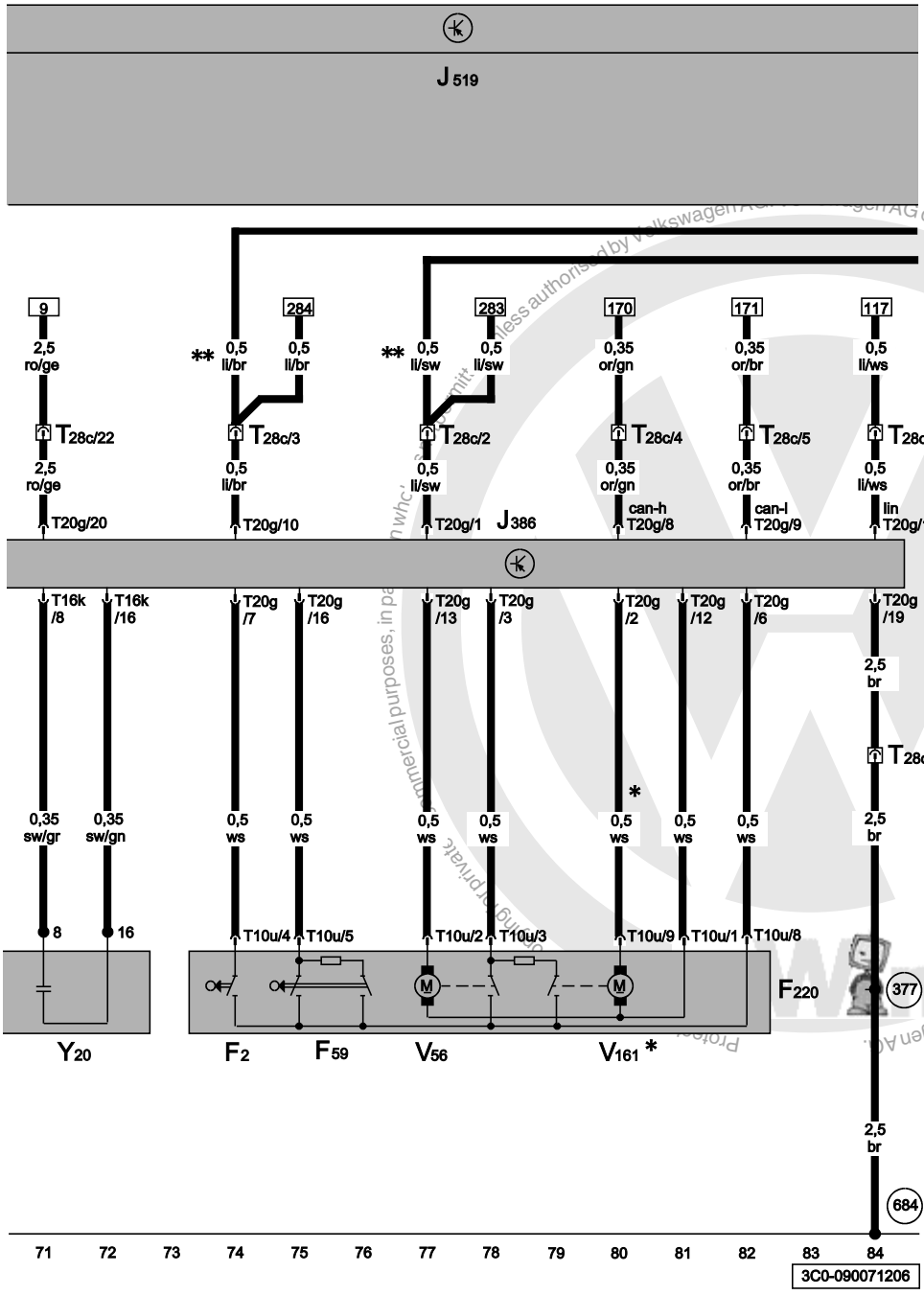
Driver door control unit, mirror adjustment and fold-in mirror motors

G514	Potentiometer for horizontal adjustment of driver side mirror
G515	Potentiometer for vertical adjustment of driver side mirror
J386	Driver door control unit
J519	Onboard supply control unit
L131	Driver side exterior mirror turn signal bulb
T16k	16-pin connector
V17	Driver side mirror adjustment motor
V121	Driver side fold-in mirror motor
V149	Driver side mirror adjustment motor
W52	Driver side entry light in exterior mirror
Z4	heated exterior mirror on driver side

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gn	=	green
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Driver door control unit, door contact switch, central locking lock unit, driver side automatic anti-dazzle exterior mirror

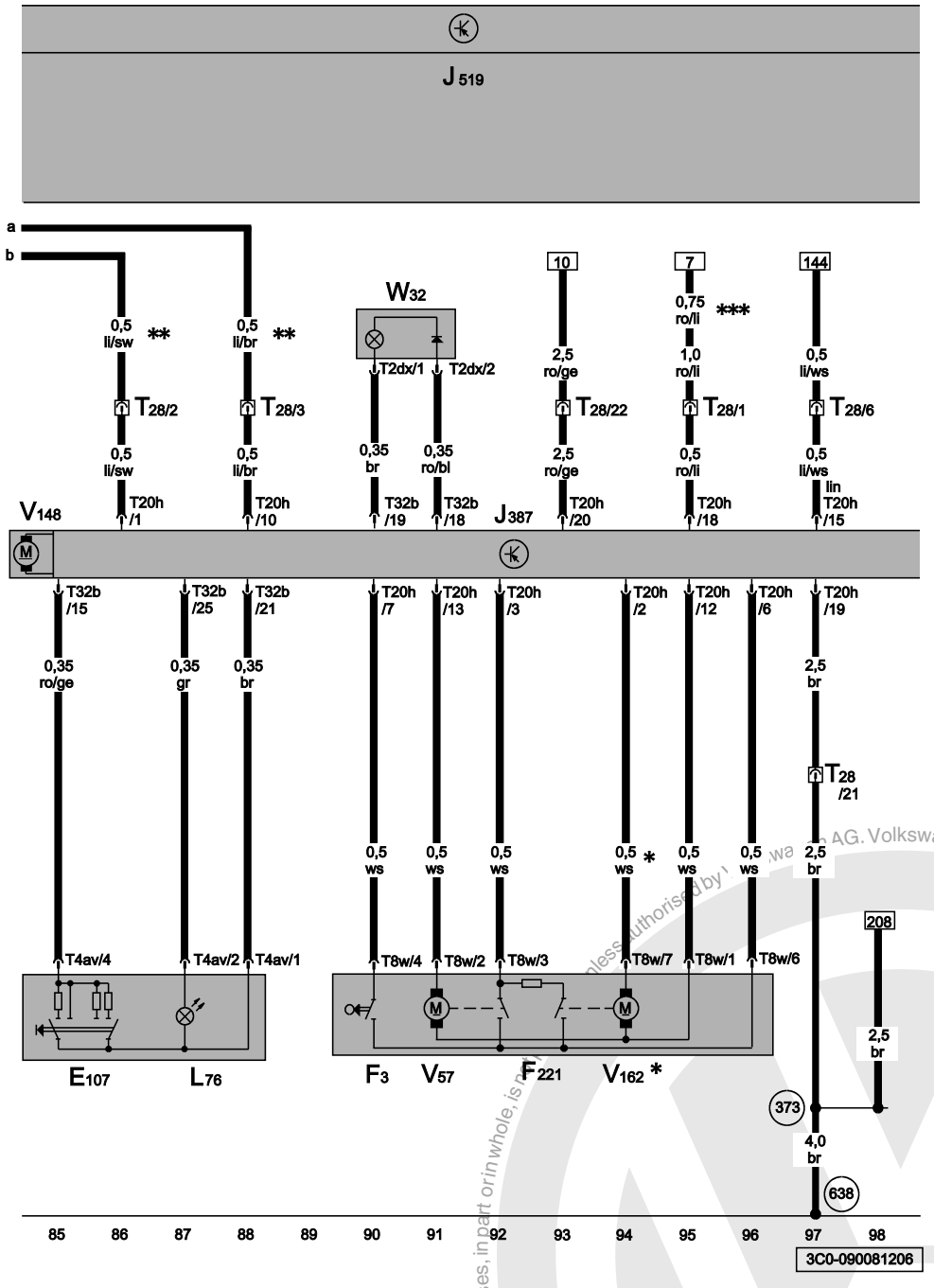


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or	=	orange
rs	=	pink

F2	Driver door contact switch
F59	Central locking switch on driver side
F220	Driver side central locking lock unit
J386	Driver door control unit
J519	Onboard supply control unit
T10u	10-pin connector
T16k	16-pin connector
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
V56	Driver door central locking motor
V161	Driver door central locking deadlock function motor
Y20	Driver side automatic anti-dazzle exterior mirror
377	Earth connection 12, in main wiring harness
684	Earth point, on front of left side member
*	Not for American markets
**	Only on vehicles with entry and start authorisation (Kessy)

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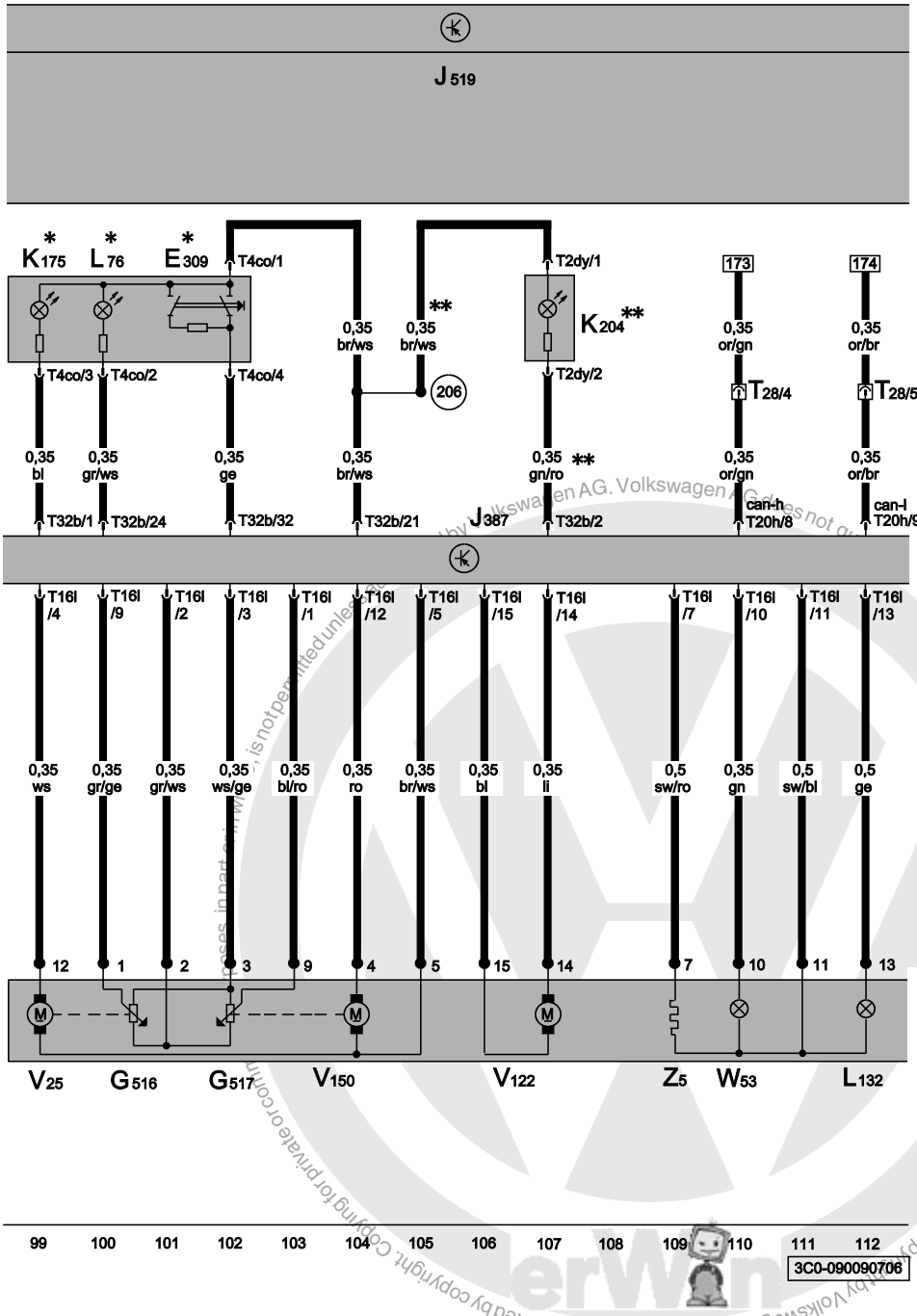
Front passenger door control unit, front passenger side central locking lock unit, window regulator switch, front right entry light



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

E107	Window regulator switch in front passenger door
F3	Front passenger door contact switch
F221	Front passenger side central locking lock unit
J387	Front passenger side door control unit
J519	Onboard supply control unit
L76	Button illumination bulb
T2dx	2-pin connector
T4av	4-pin connector
T8w	8-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T32b	32-pin connector
V57	Front passenger seat central locking motor
V148	Front passenger side window regulator motor
V162	Front passenger door central locking deadlock function motor
W32	Front right entry light
373	Earth connection 8, in main wiring harness
638	Earth point, on right A-pillar
*	Not for American markets
**	Applicable to October 2006
***	Applicable from November 2006

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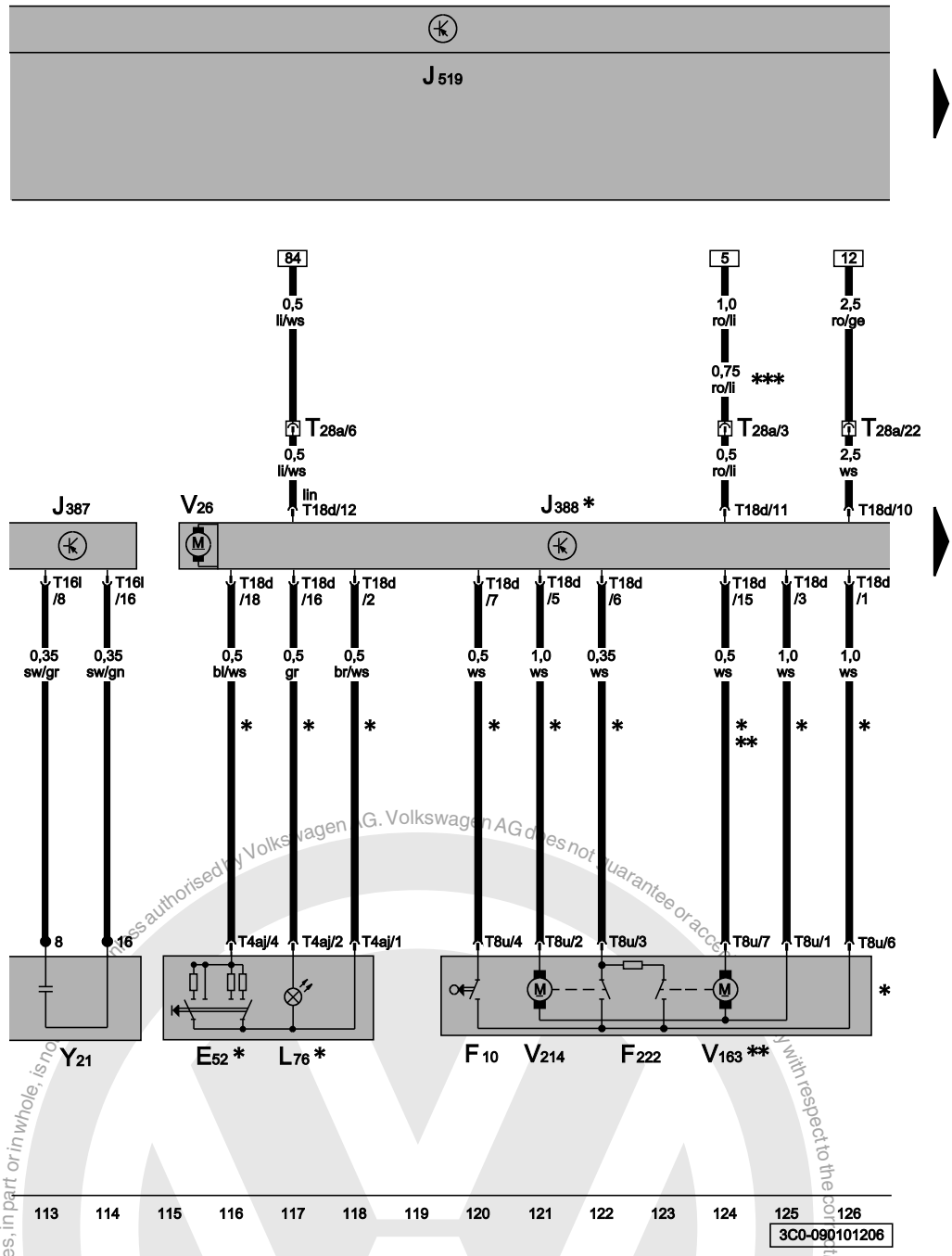
Front passenger door control unit, front passenger side interior locking button, front passenger side mirror adjustment motor

E309	Front passenger side interior locking button for central locking system
G516	Potentiometer for horizontal adjustment of front passenger side mirror
G517	Potentiometer for vertical adjustment of front passenger side mirror
J387	Front passenger side door control unit
J519	Onboard supply control unit
K175	Front passenger side interior locking warning lamp
K204	Central locking deadlock function warning lamp on front passenger side
L76	Button illumination bulb
L132	Front passenger side exterior mirror turn signal bulb
T2dy	2-pin connector
T4co	4-pin connector
T16l	16-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T32b	32-pin connector
V25	Front passenger side mirror adjustment motor
V122	Front passenger side fold-in mirror motor
V150	Front passenger side mirror adjustment motor
W53	Front passenger side entry light in exterior mirror
Z5	heated exterior mirror on front passenger side
206	Earth connection, in front passenger door wiring harness
*	Depends on equipment
**	Only American markets until October 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

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Rear left door control unit, rear left window regulator switch, in door, rear left central locking lock unit, front passenger side automatic anti-dazzle exterior mirror

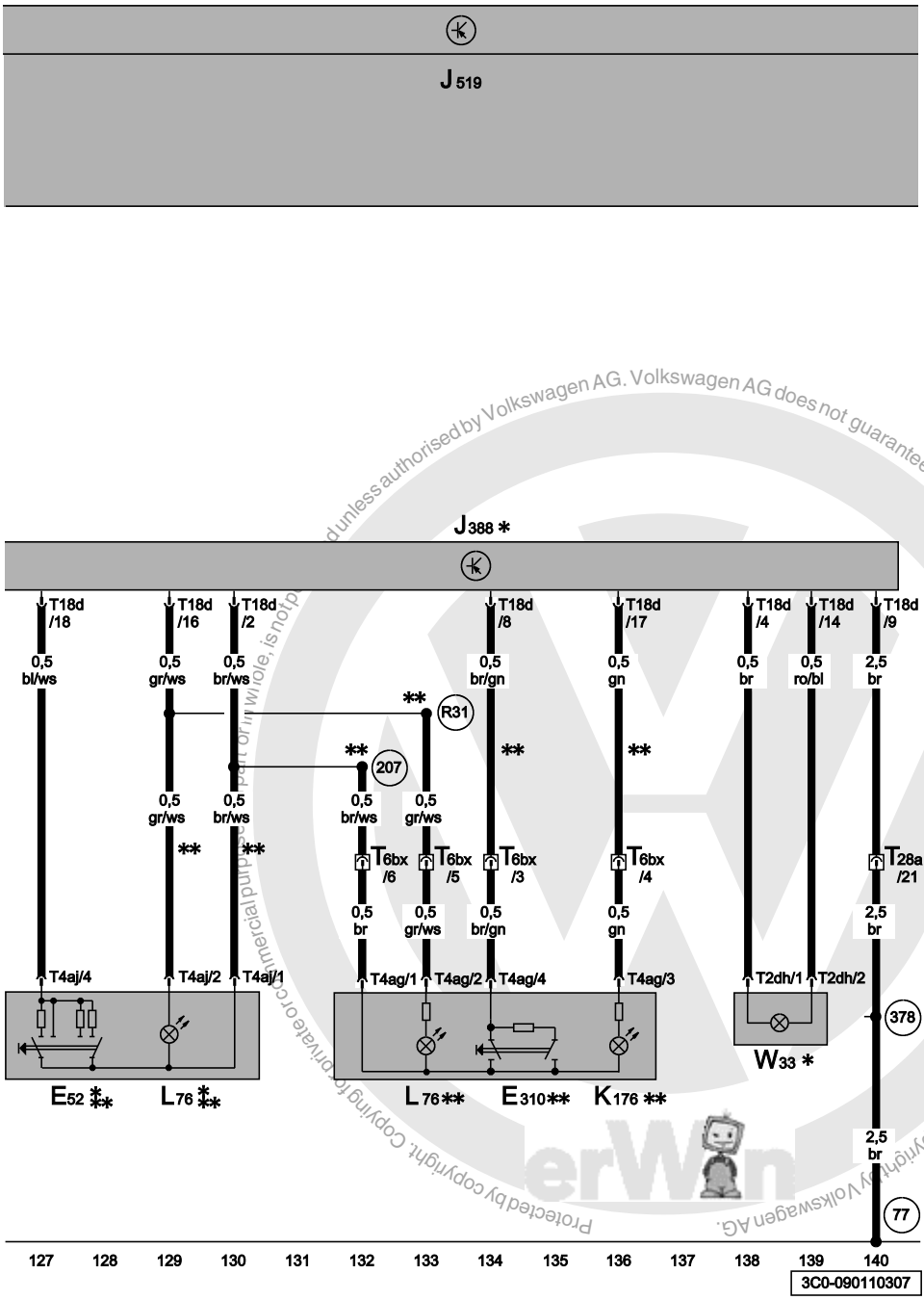


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or	=	orange
rs	=	pink

E52	Rear left window regulator switch, in door
F10	Rear left door contact switch
F222	Rear left central locking lock unit
J387	Front passenger side door control unit
J388	Rear left door control unit
J519	Onboard supply control unit
L76	Button illumination bulb
T4aj	4-pin connector
T8u	8-pin connector
T16l	16-pin connector
T18d	18-pin connector, white
T28a	28-pin connector, coupling point, left B-pillar
V26	Rear left window regulator motor
V163	Rear left door central locking deadlock function motor
V214	Rear left door central locking motor, lock
Y21	Front passenger side automatic anti-dazzle exterior mirror
*	Only vehicles with electric window regulators in rear
**	Only American markets
***	Applicable from November 2006

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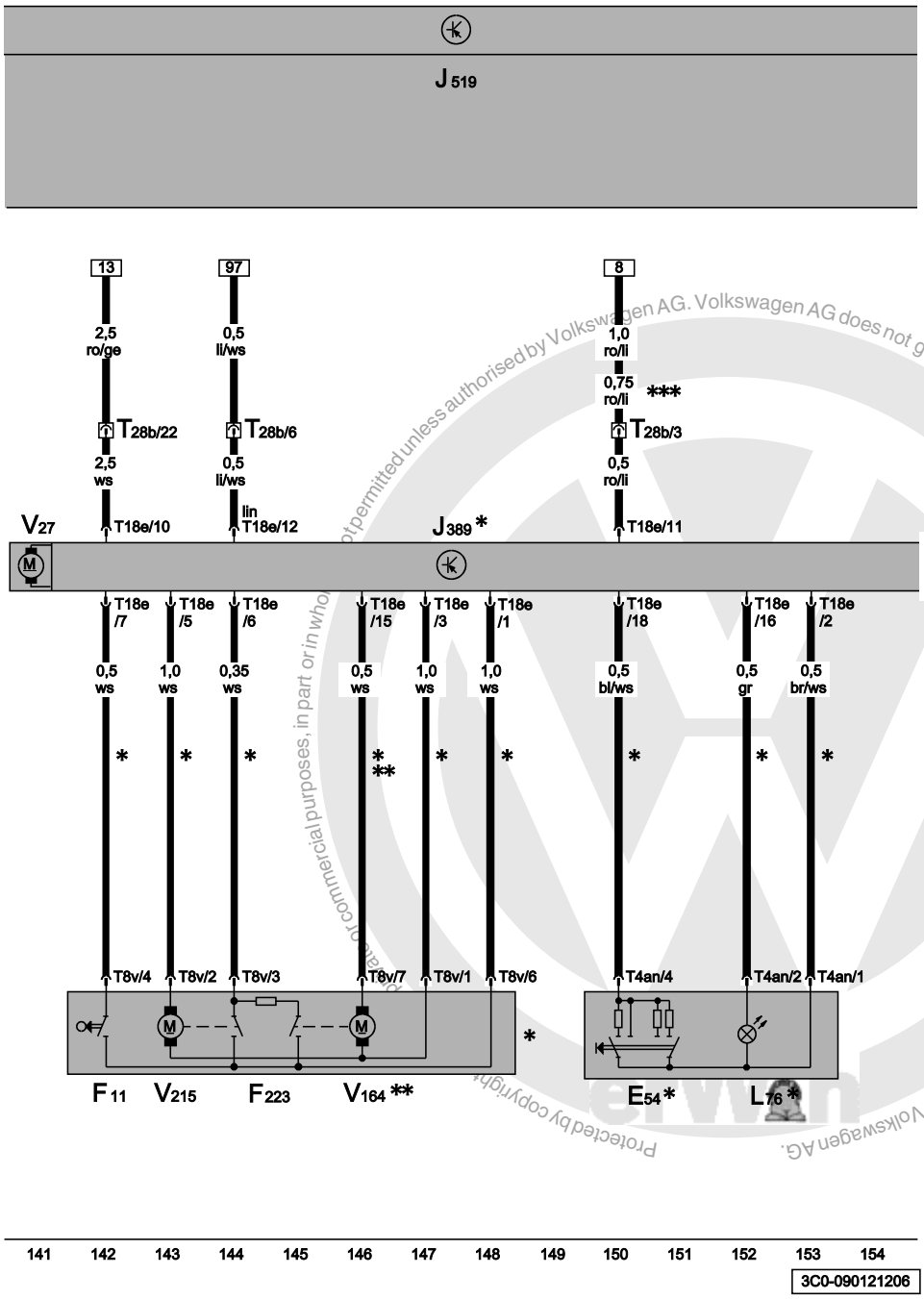
Rear left door control unit, rear left window regulator switch, in door, rear left interior locking button for central locking system



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rs	=	pink

E52	Rear left window regulator switch, in door
E310	Rear left interior locking button for central locking system
J388	Rear left door control unit
J519	Onboard supply control unit
K176	Rear left interior locking warning lamp
L76	Button illumination bulb
T2dh	2-pin connector
T4ag	4-pin connector
T4aj	4-pin connector
T6bx	6-pin connector, in rear left door
T18d	18-pin connector, white
T28a	28-pin connector, coupling point, left B-pillar
W33	Rear left entry light
77	Earth point, lower part of left B-pillar
207	Earth connection, in rear left door wiring harness
378	Earth connection 13, in main wiring harness
R31	Connection 1, in rear left door wiring harness
*	Only vehicles with electric window regulators in rear
**	Only American markets

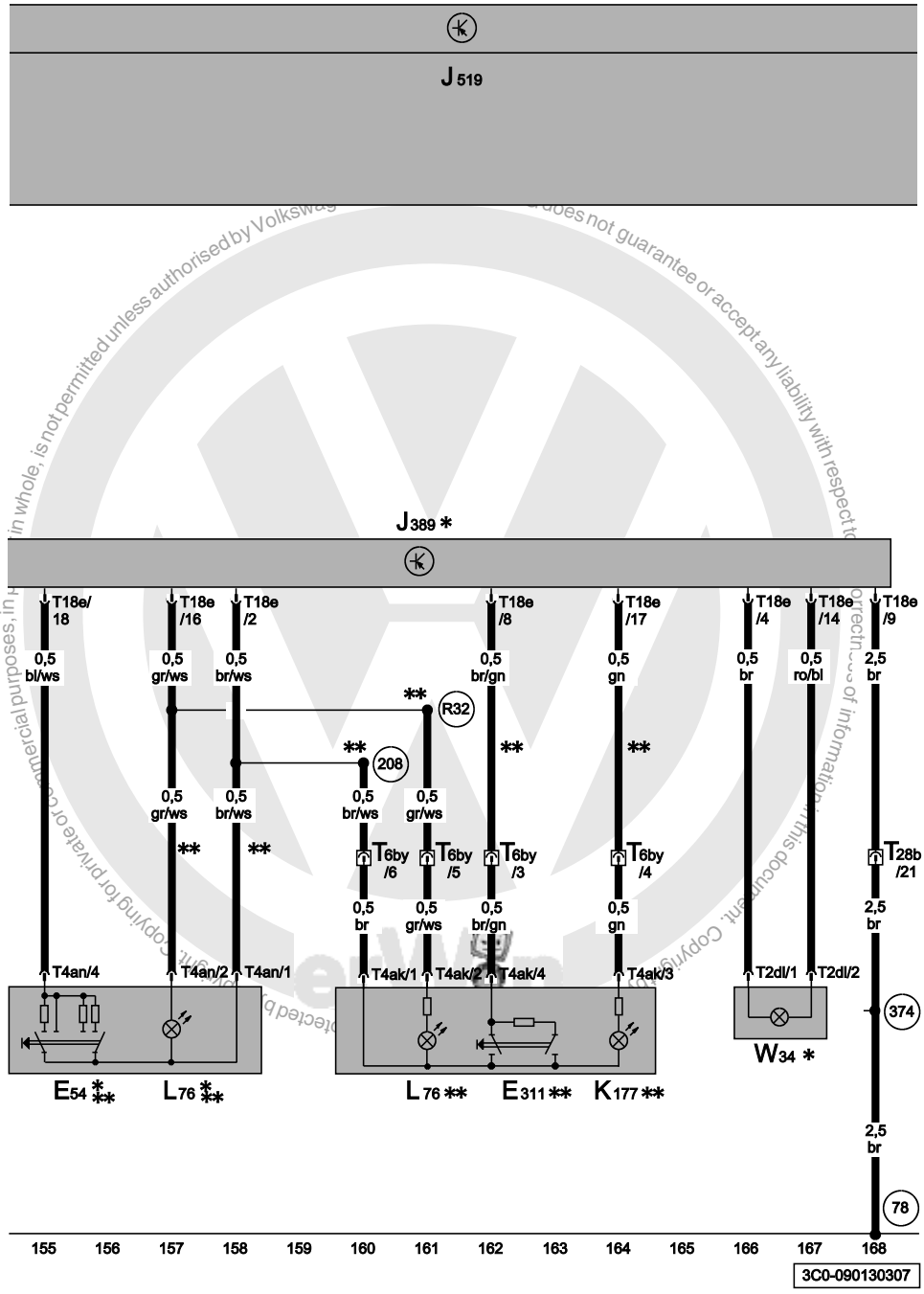


Rear right door control unit, rear right window regulator switch, in door

E54	Rear right window regulator switch, in door
F11	Rear right door contact switch
F223	Rear right central locking lock unit
J389	Rear right door control unit
J519	Onboard supply control unit
L76	Button illumination bulb
T4an	4-pin connector
T8v	8-pin connector
T18e	18-pin connector
T28b	28-pin connector, coupling point, right B-pillar
V27	Rear right window regulator motor
V164	Rear right door central deadlock function locking motor
V215	Rear right door central locking motor, lock
*	Only vehicles with electric window regulators in rear
**	Only American markets
***	Applicable from November 2006

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
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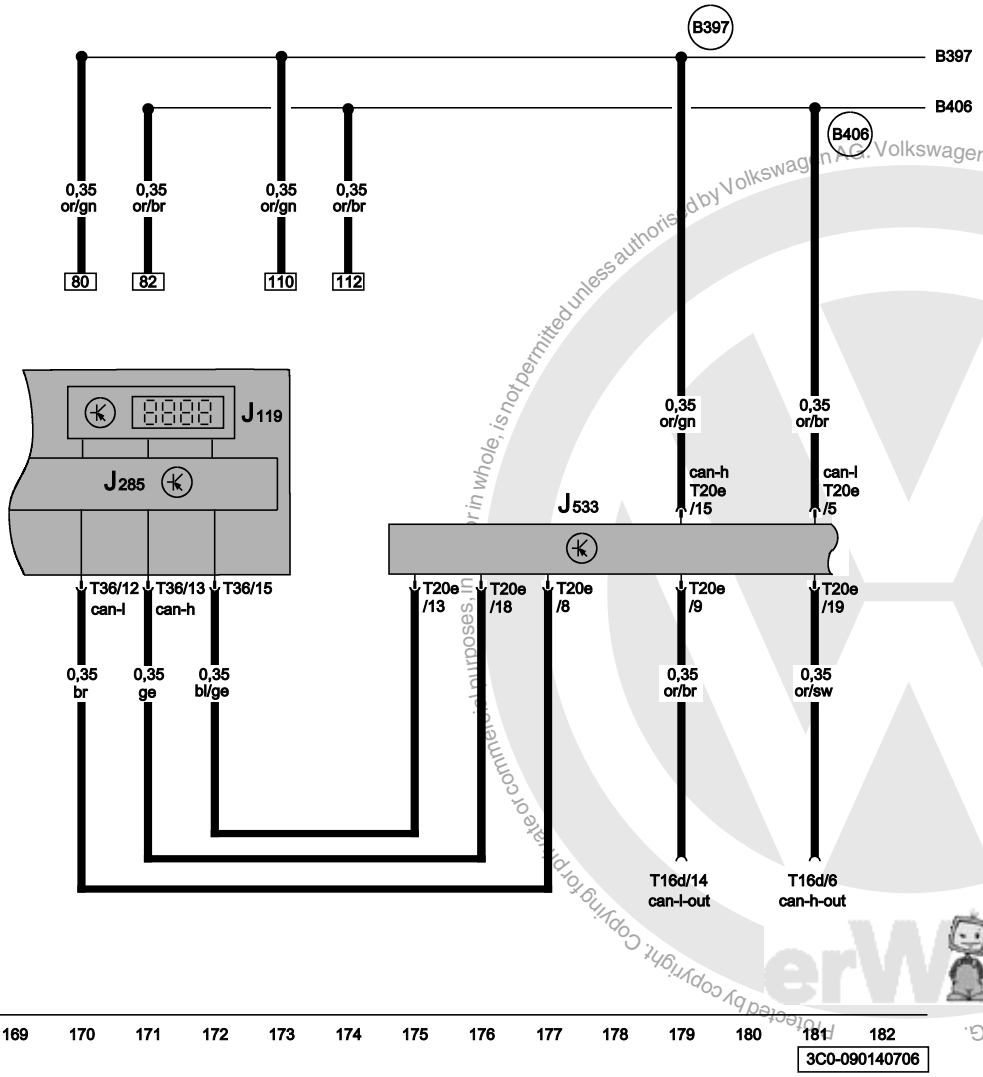


Rear right door control unit, rear right window regulator switch, in door, rear right interior locking button for central locking system

E54	Rear right window regulator switch, in door
E311	Rear right interior locking button for central locking system
J389	Rear right door control unit
J519	Onboard supply control unit
K177	Rear right interior locking warning lamp
L76	Button illumination bulb
T2dl	2-pin connector
T4ak	4-pin connector
T4an	4-pin connector
T6by	6-pin connector, in rear right door
T18e	18-pin connector
T28b	28-pin connector, coupling point, right B-pillar
W34	Rear right entry light
78	Earth point, lower part of right B-pillar
208	Earth connection, in rear right door wiring harness
374	Earth connection 9, in main wiring harness
R32	Connection 2, in rear right door wiring harness
*	Only vehicles with electric window regulators in rear
**	Only American markets

ws	=	white
sw	=	black
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br	=	brown
gn	=	green
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rs	=	pink

J519

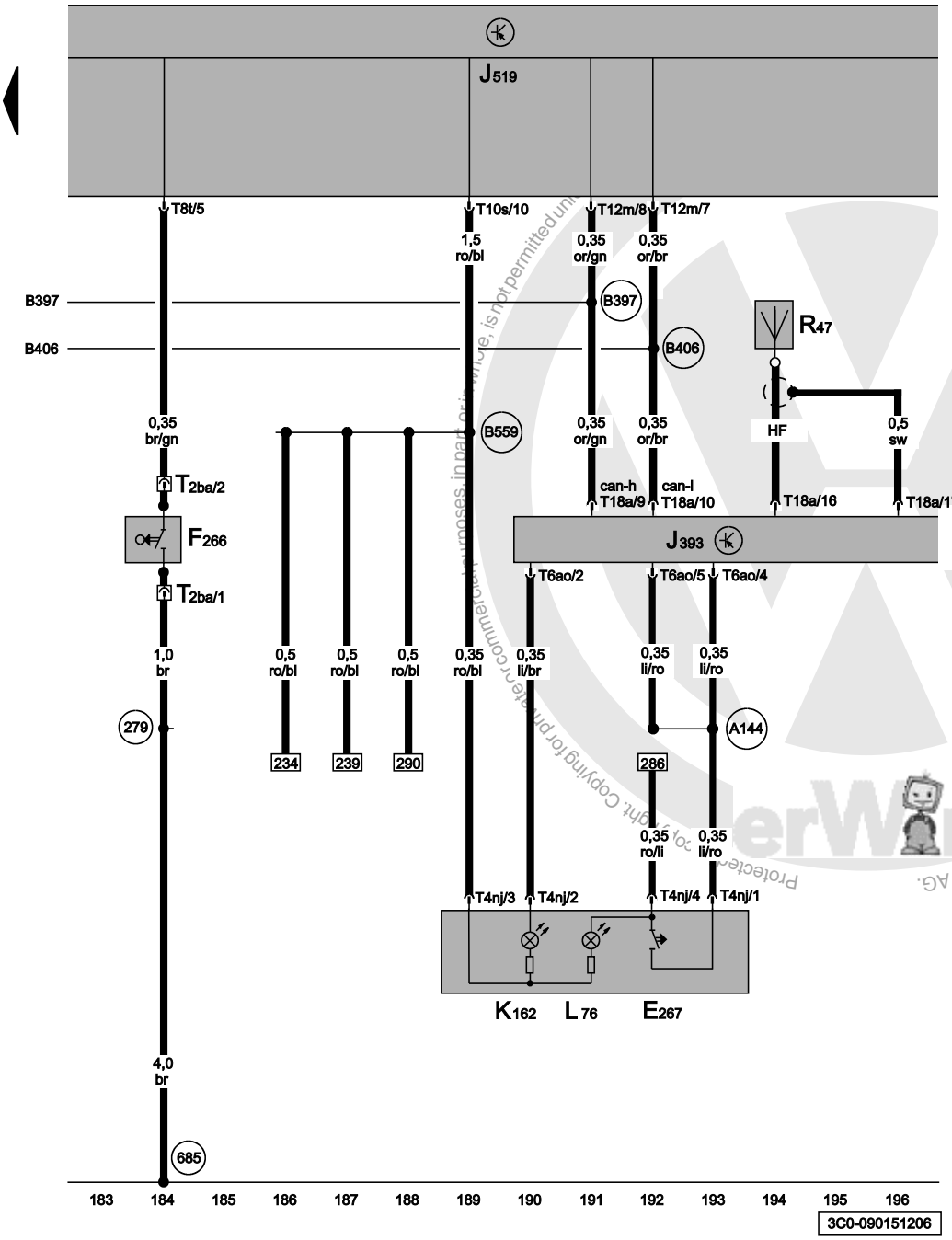


Dash panel insert, multifunction display, data bus diagnostic interface, diagnostic connection

J119	Multifunction display
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T36	36-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

ws	=	white
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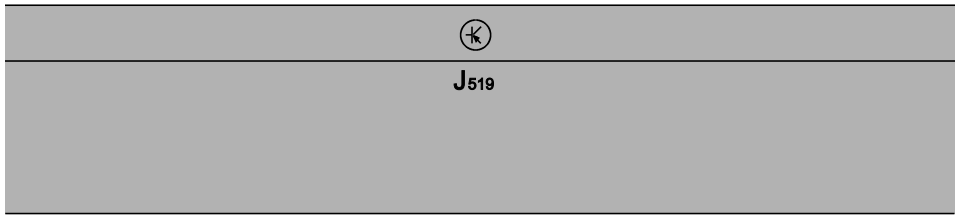


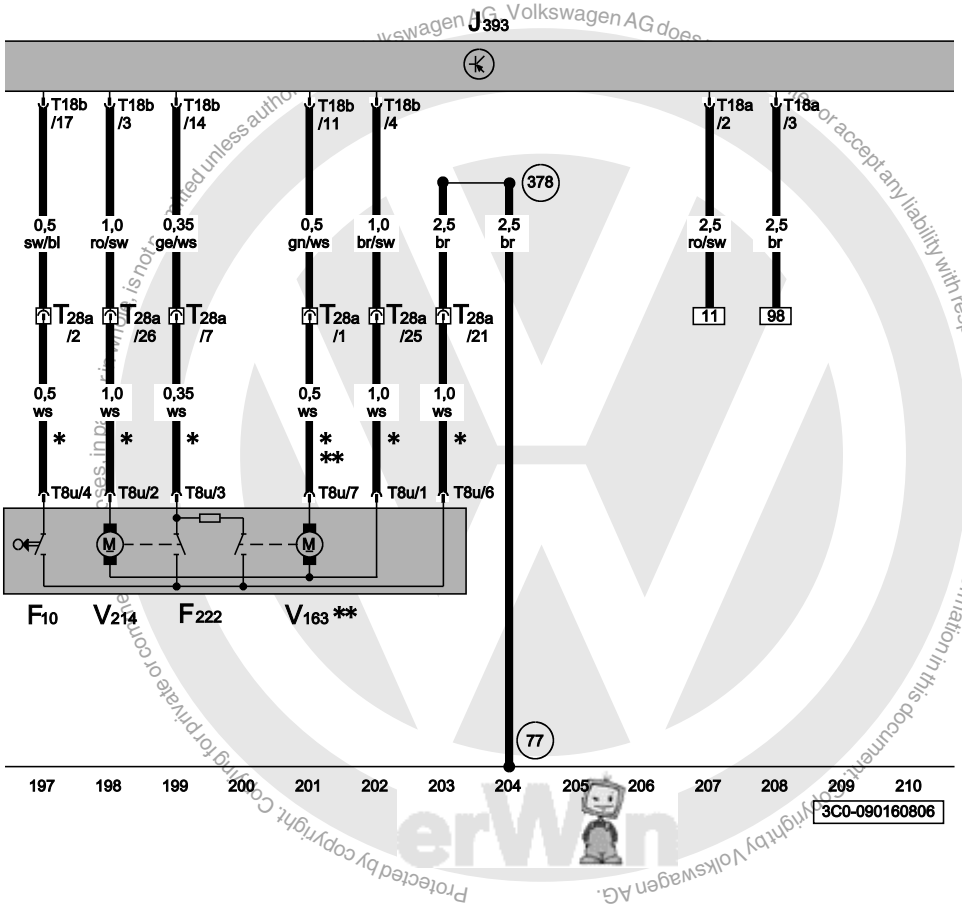
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Convenience system central control unit, bonnet contact switch, interior monitoring deactivation switch

E267	Interior monitoring deactivation switch
F266	Bonnet contact switch
J393	Convenience system central control unit
J519	Onboard supply control unit
K162	Interior monitoring off warning lamp
L76	Button illumination bulb
R47	Central locking and anti-theft alarm system aerial, lower left A-pillar
T2ba	2-pin connector, black, on right behind headlight
T4nj	4-pin connector
T6ao	6-pin connector
T8t	8-pin connector, black
T10s	10-pin connector, black
T12m	12-pin connector, black
T18a	18-pin connector
279	Earth connection 5, in interior wiring harness
685	Earth point 1 at front of right longitudinal member
A144	Connection (interior monitoring) in dash panel wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B559	Connection 1 (30g), in main wiring harness

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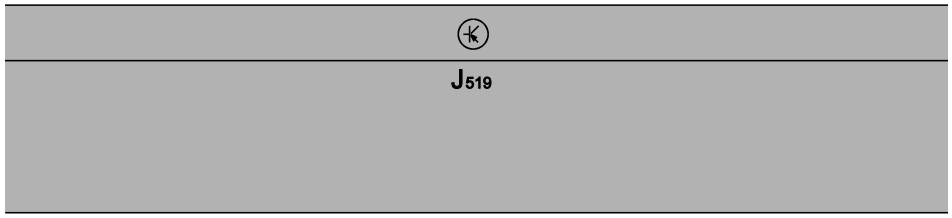


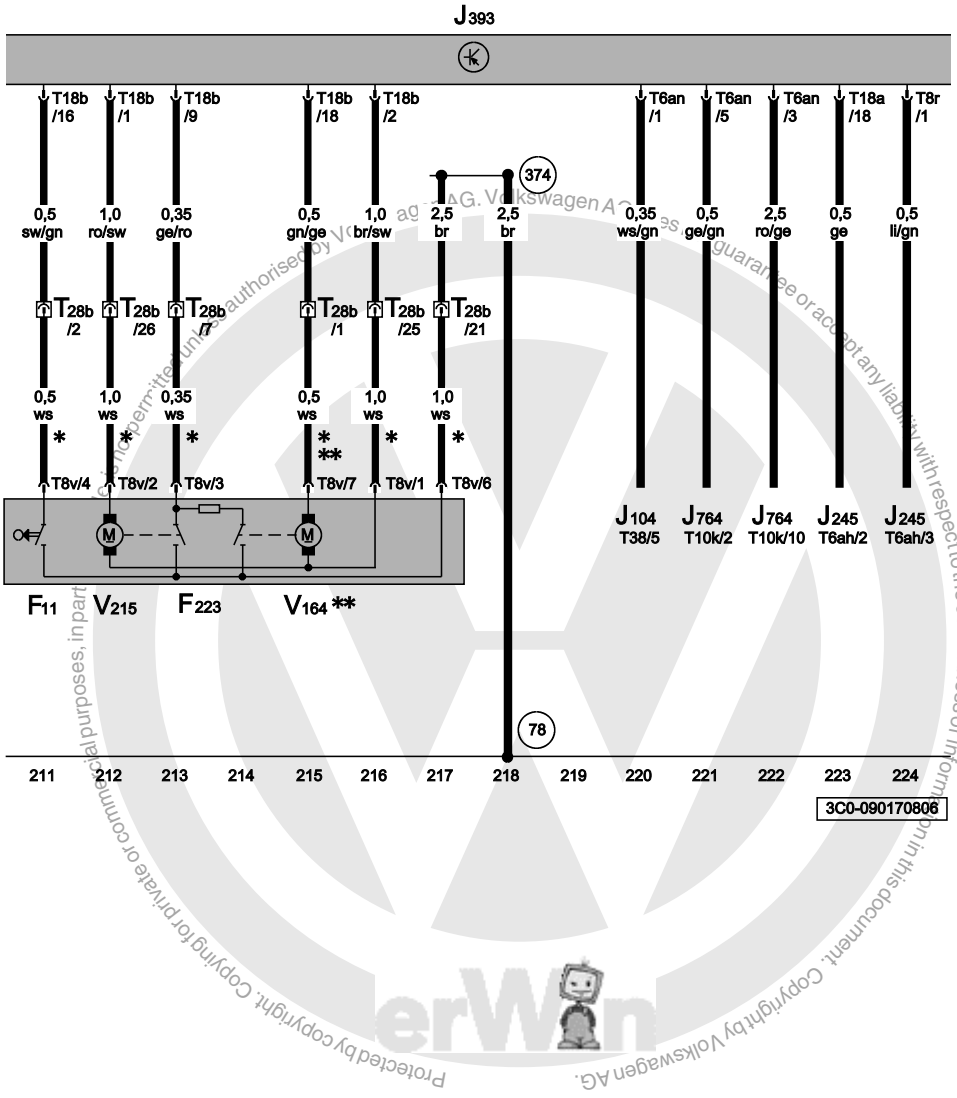
Convenience system central control unit, rear left door contact switch, rear left central locking lock unit

F10	Rear left door contact switch
F222	Rear left central locking lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T8u	8-pin connector
T18a	18-pin connector
T18b	18-pin connector
T28a	28-pin connector, coupling point, left B-pillar
V163	Rear left door central locking deadlock function motor
V214	Rear left door central locking motor, lock
77	Earth point, lower part of left B-pillar
378	Earth connection 13, in main wiring harness
*	Only models with no rear electric window regulator
**	Only American markets

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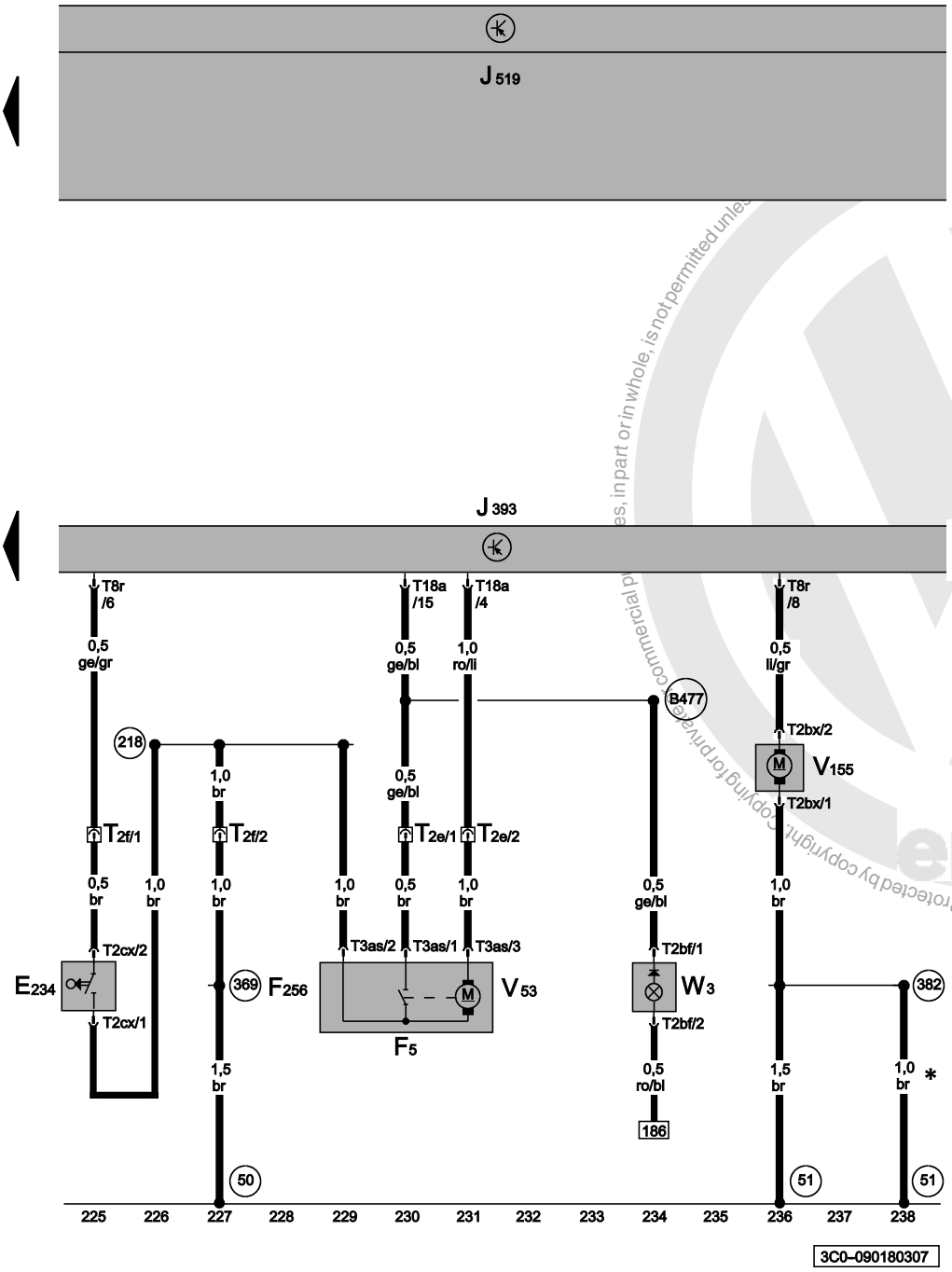
Convenience system central control unit, central locking lock unit

F11	Rear right door contact switch
F223	Rear right central locking lock unit
J104	ABS control unit
J245	Sliding sunroof adjustment control unit
J393	Convenience system central control unit
J245	Sliding sunroof adjustment control unit
J519	Onboard supply control unit
J764	Electronic steering column lock control unit
T6ah	6-pin connector
T6an	6-pin connector
T8r	8-pin connector
T8v	8-pin connector
T10k	10-pin connector
T18a	18-pin connector
T18b	18-pin connector
T28b	28-pin connector, coupling point, right B-pillar
T38	38-pin connector
V164	Rear right door central deadlock function locking motor
V215	Rear right door central locking motor, lock
78	Earth point, lower part of right B-pillar
374	Earth connection 9, in main wiring harness
*	Only models with no rear electric window regulator
**	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Rear lid handle release button, rear lid central locking motor (saloon models), tank filler flap locking motor (saloon models), luggage compartment light (saloon models)

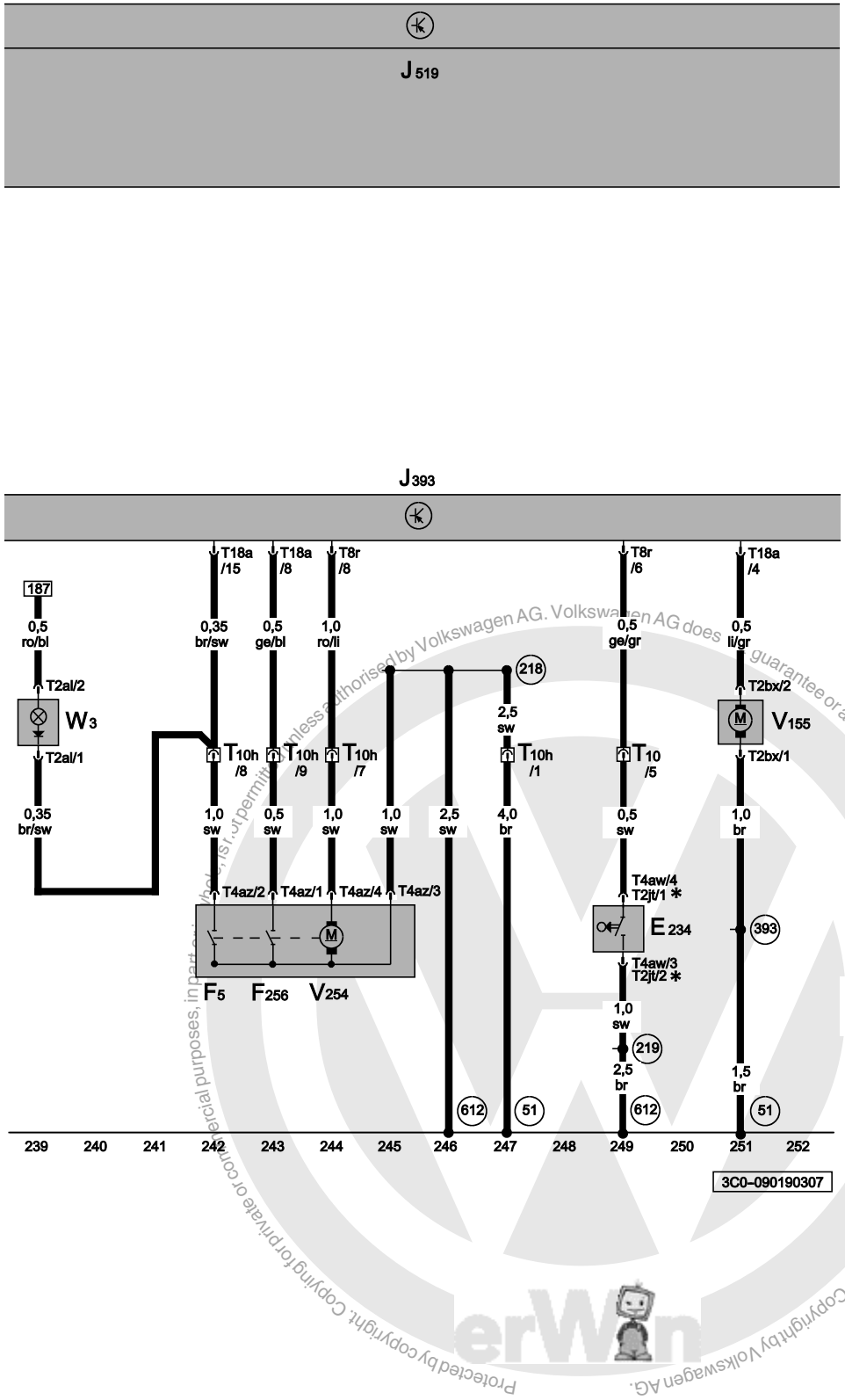


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br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
rs	=	pink

E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2bf	2-pin connector
T2e	2-pin connector, coupling point of rear lid saloon models
T2f	2-pin connector, coupling point of rear lid saloon models
T2bx	2-pin connector
T2cx	2-pin connector
T3as	3-pin connector, rear lid lock saloon models
T8r	8-pin connector
T18a	18-pin connector
V53	Rear lid central locking motor
V155	Tank filler flap locking motor
W3	Luggage compartment light
50	Earth point, on left in luggage compartment
51	Earth point, on right in luggage compartment
218	Earth connection 1 in rear lid wiring harness
369	Earth connection 4, in main wiring harness
382	Earth connection 17, in main wiring harness
B477	Connection 13 in main wiring harness
*	Applicable from November 2006

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Rear lid handle release button, rear lid lock unit Variant, rear lid electric release motor Variant, luggage compartment light Variant, tank filler flap locking motor Variant

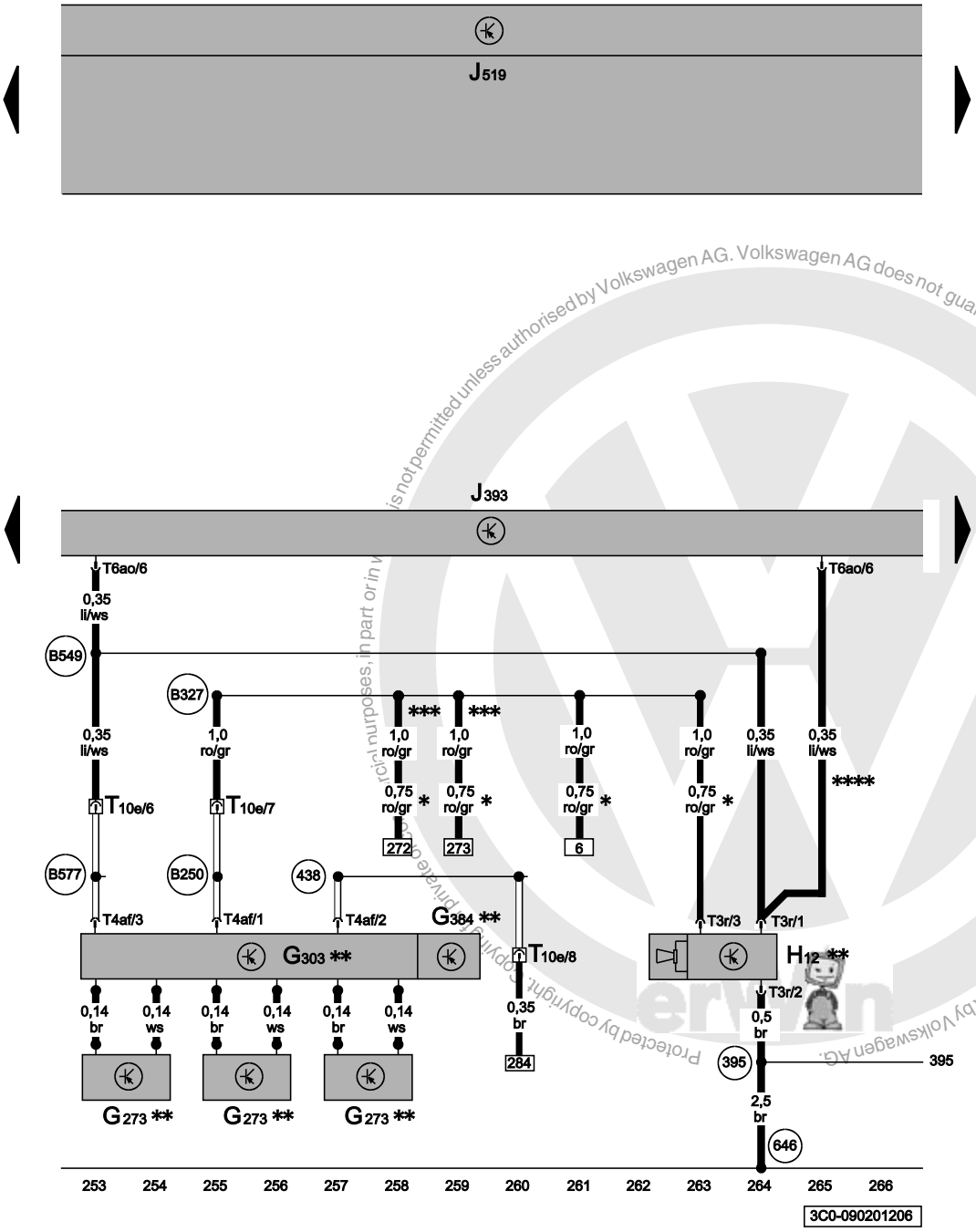


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gn	=	green
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rs	=	pink

E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2al	2-pin connector
T2bx	2-pin connector
T2jt	2-pin connector
T4aw	4-pin connector
T4az	4-pin connector, rear lid lock, estate models
T8r	8-pin connector
T10	10-pin connector
T10h	10-pin connector, coupling point on rear lid, estate models
T18a	18-pin connector
V155	Tank filler flap locking motor
V254	Rear lid electric release motor
W3	Luggage compartment light
(51)	Earth point, on right in luggage compartment
(218)	Earth connection 1 in rear lid wiring harness
(219)	Earth point 2 in rear lid wiring harness
(393)	Earth connection 28, in main wiring harness
(612)	Earth point, centre on rear lid
*	Applicable from May 2007

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Convenience system central control unit, vehicle inclination sender, alarm horn, interior monitor send and receive module 1



G273	Interior monitoring sensor
G303	Interior monitor send and receive module 1
G384	Vehicle inclination sender
H12	Alarm horn
J393	Convenience system central control unit
J519	Onboard supply control unit
T3r	3-pin connector
T4af	4-pin connector
T6ao	6-pin connector
T10e	10-pin connector, blue, coupling point for roof wiring harness
395	Earth connection 30, in main wiring harness
438	Earth connection 3, in roof wiring harness
646	Earth point 2, on bulkhead
B250	Positive connection, in roof wiring harness
B327	Connection 13 (30a), in main wiring harness
B549	Connection 2 (LIN bus), in main wiring harness
B577	LIN bus connection in roof wiring harness
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/rahmen.png" content-width="20pt" scaling="uniform"/>	Flexible printed circuit

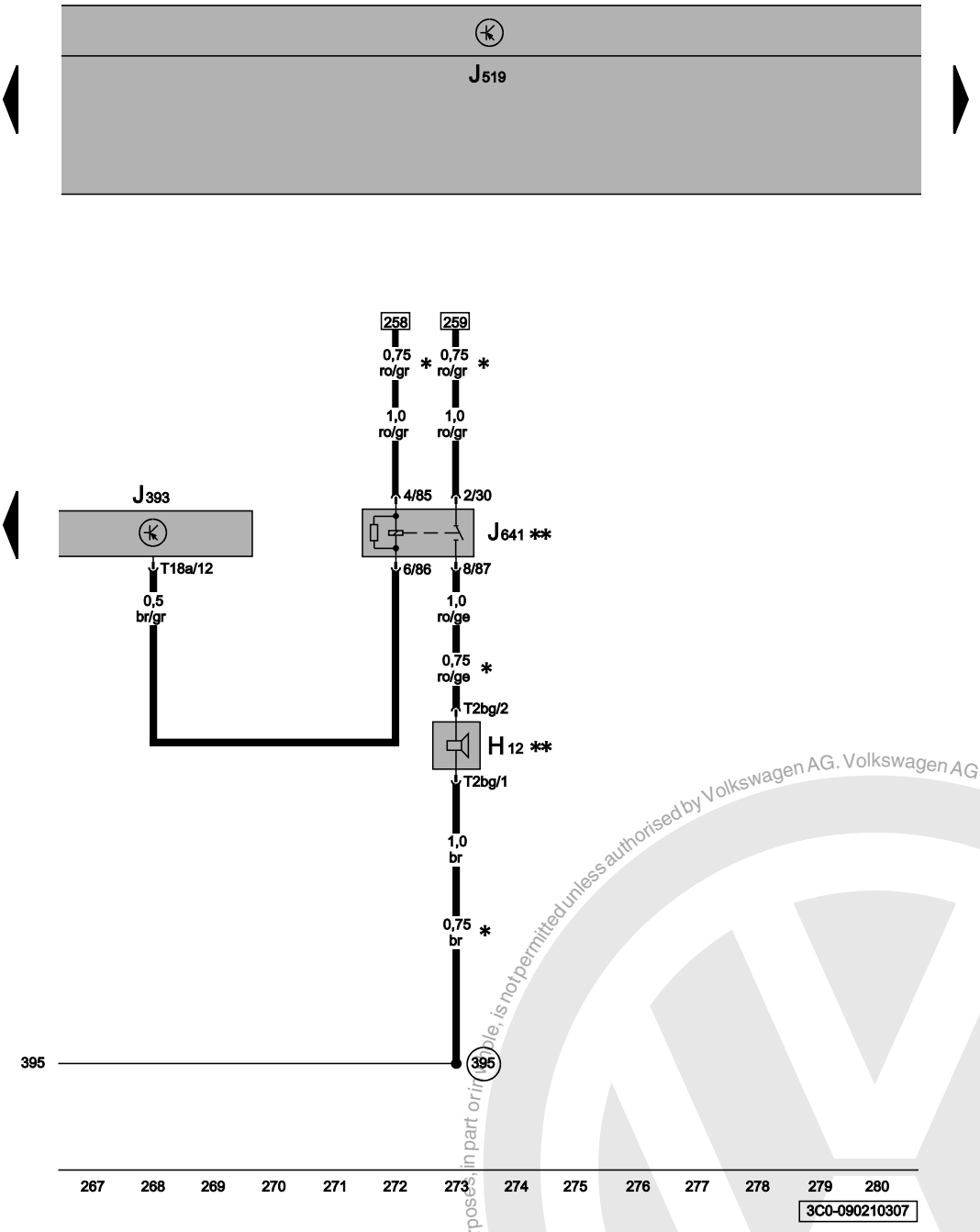
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br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

*	Applicable from November 2006
**	Not for American markets
***	Only American markets
****	Only vehicles with no interior monitoring and no towing protection

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Alarm horn relay, alarm horn

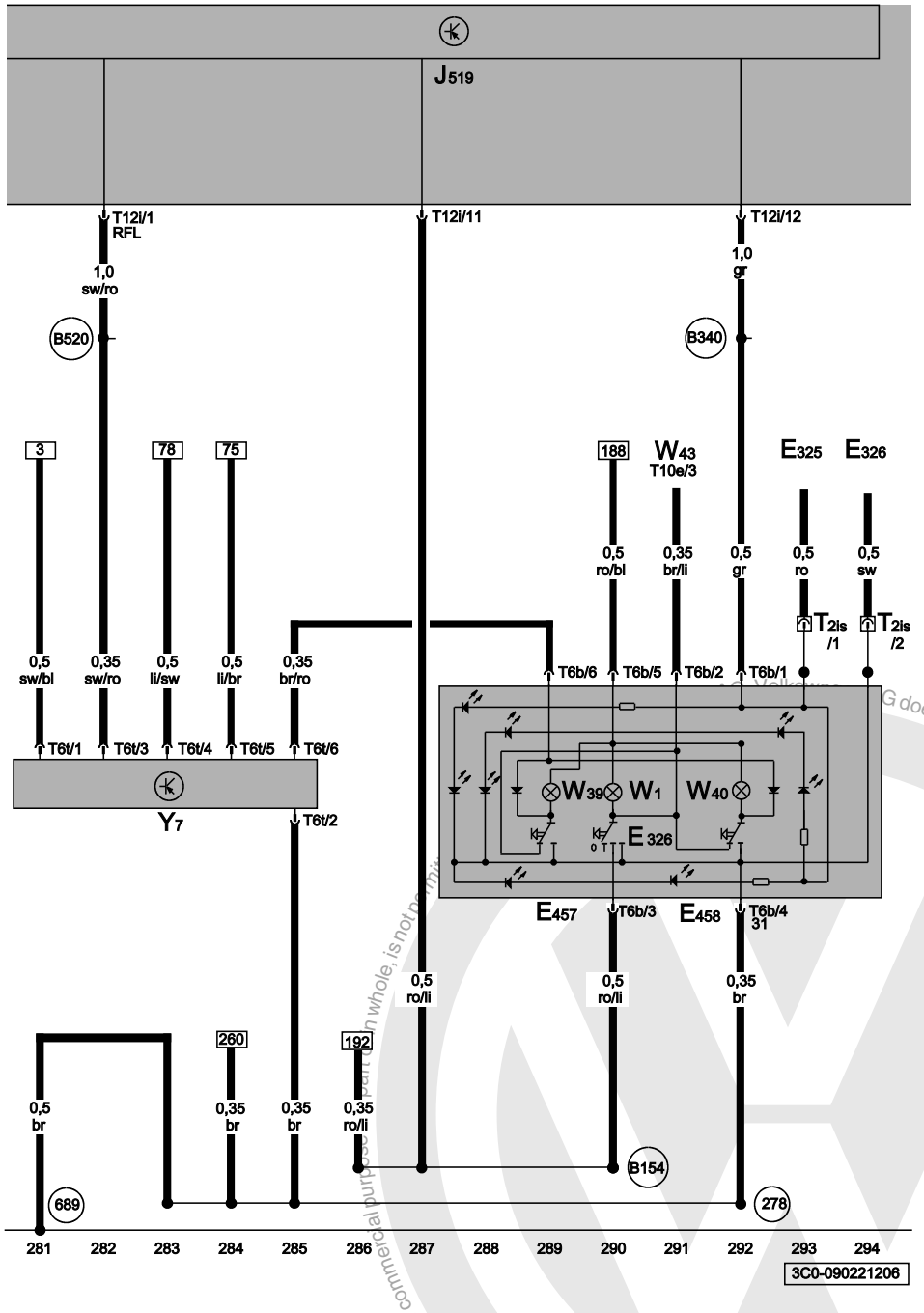
H12	Alarm horn
J393	Convenience system central control unit
J519	Onboard supply control unit
J641	Alarm horn relay, on relay carrier 2 under left dash panel (53)
T2bg	2-pin connector
T18a	18-pin connector
395	Earth connection 30, in main wiring harness
*	Applicable from November 2006
**	Only American markets



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Sliding sunroof adjustment control unit, sunroof button, automatic anti-dazzle interior mirror



E325	Sunroof button
E326	Front interior light button
E457	Driver side reading light button
E458	Front passenger side reading light button
J519	Onboard supply control unit
T2is	2-pin connector, black
T6b	6-pin connector
T6t	6-pin connector
T10e	10-pin connector
T12i	12-pin connector, black
W1	Front interior light
W39	Left centre reading light
W40	Right centre reading light
W43	Rear interior light
Y7	Automatic anti-dazzle interior mirror
278	Earth connection 4, in interior wiring harness
689	Earth point, front centre of roof
B154	Connection 1 (DCt), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B520	Connection (RL), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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2.0 l/125 kW- turbo diesel, engine codes BMR

From May 2006

2.0 l/120 kW - turbo diesel, engine code BUZ

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

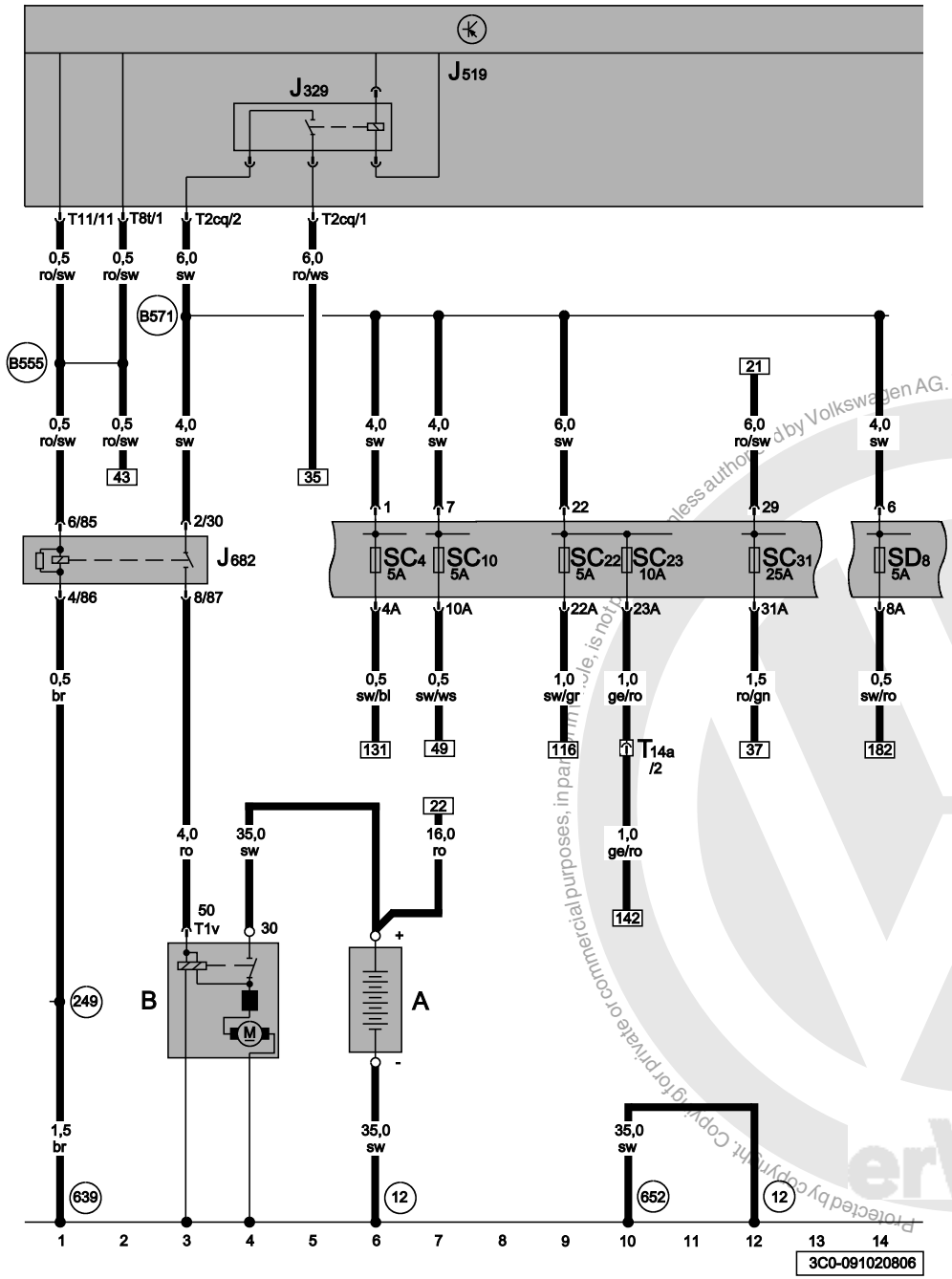
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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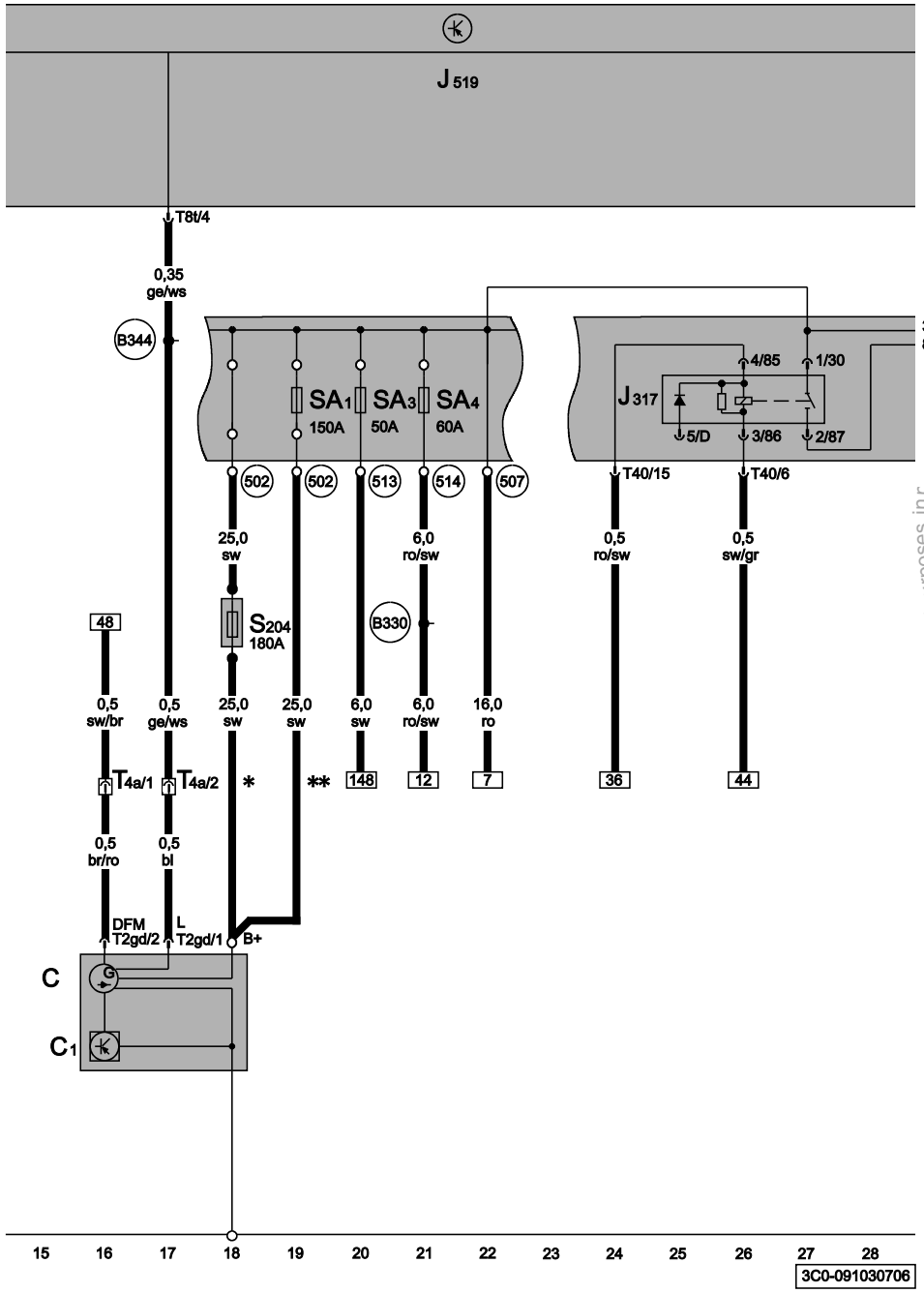
Battery, starter, terminal 15 voltage supply, terminal 50 voltage supply, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
J329	Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, on relay carrier on left under dash panel (433)
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
T14a	14-pin connector, coupling point 1, on left in engine compartment
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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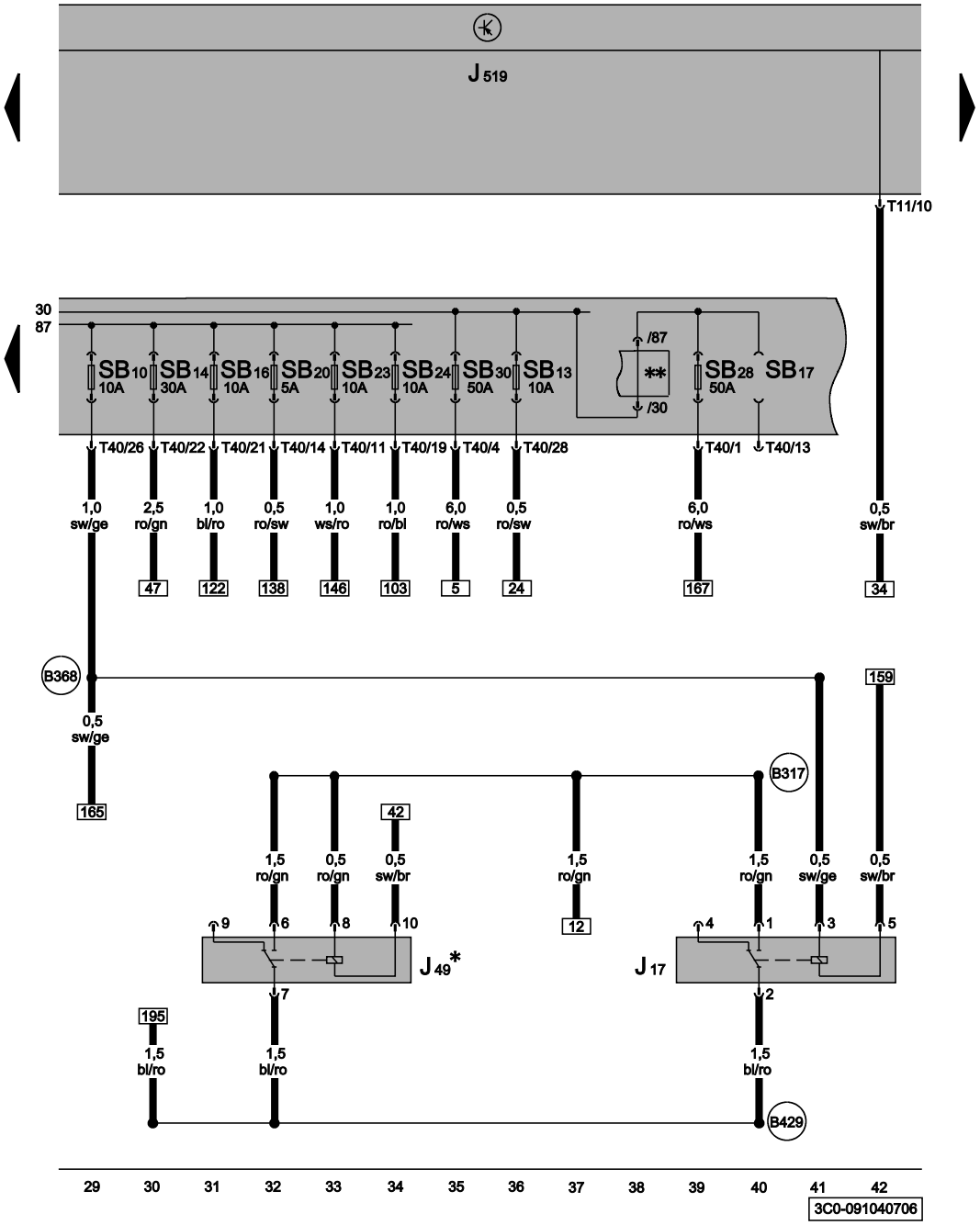
Alternator, terminal 30 voltage supply relay, fuses SA, fuse 1 (30)



C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 180 A alternator
**	Only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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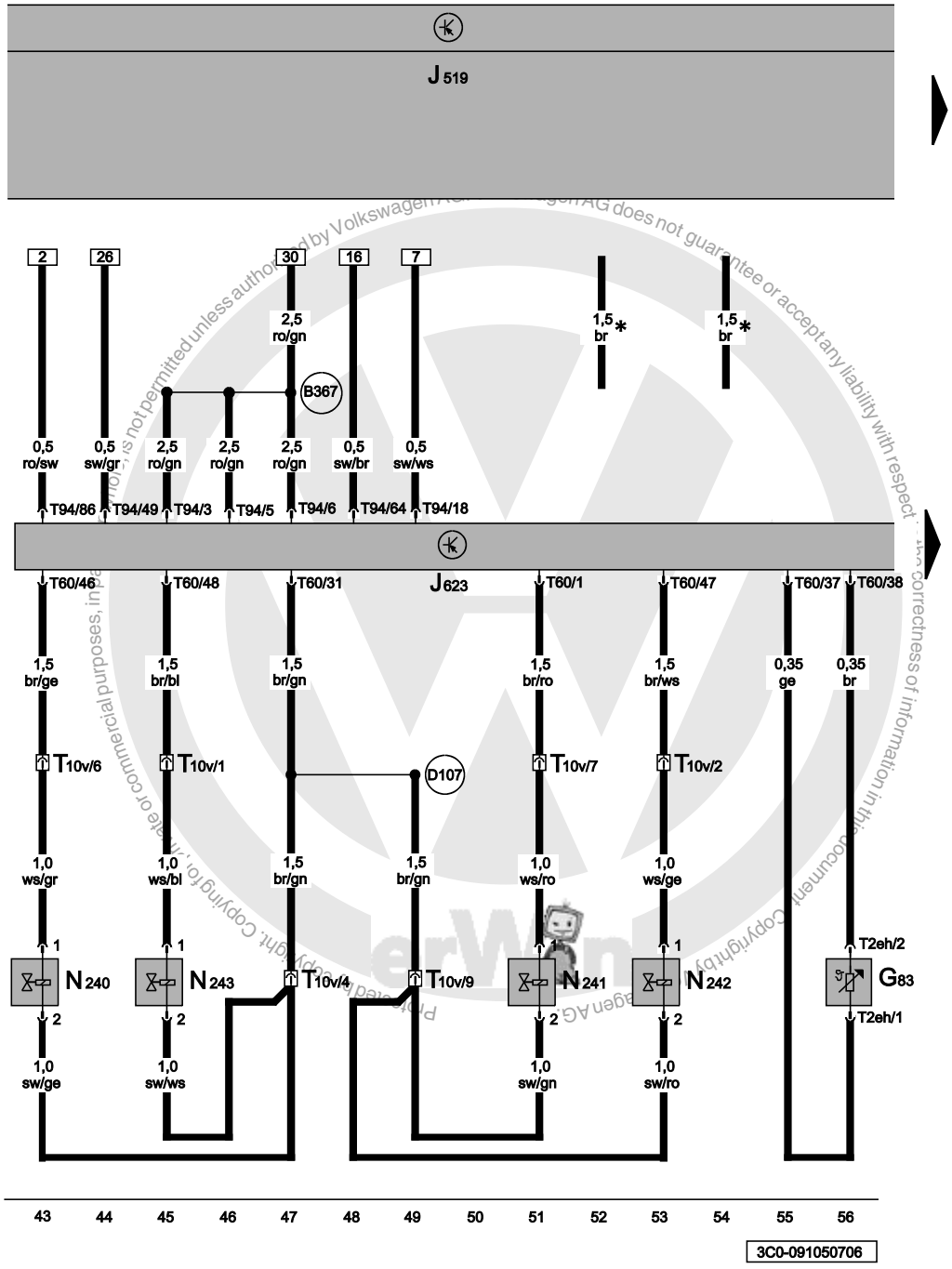


Fuel pump relay, electric fuel pump 2 relay, fuses SB

J17	Fuel pump relay, on relay carrier on left under dash panel (404)
J49	Electric fuel pump 2 relay, on relay carrier on left under dash panel (404)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only models with auxiliary coolant heater
**	Push-in bridge on relay slot R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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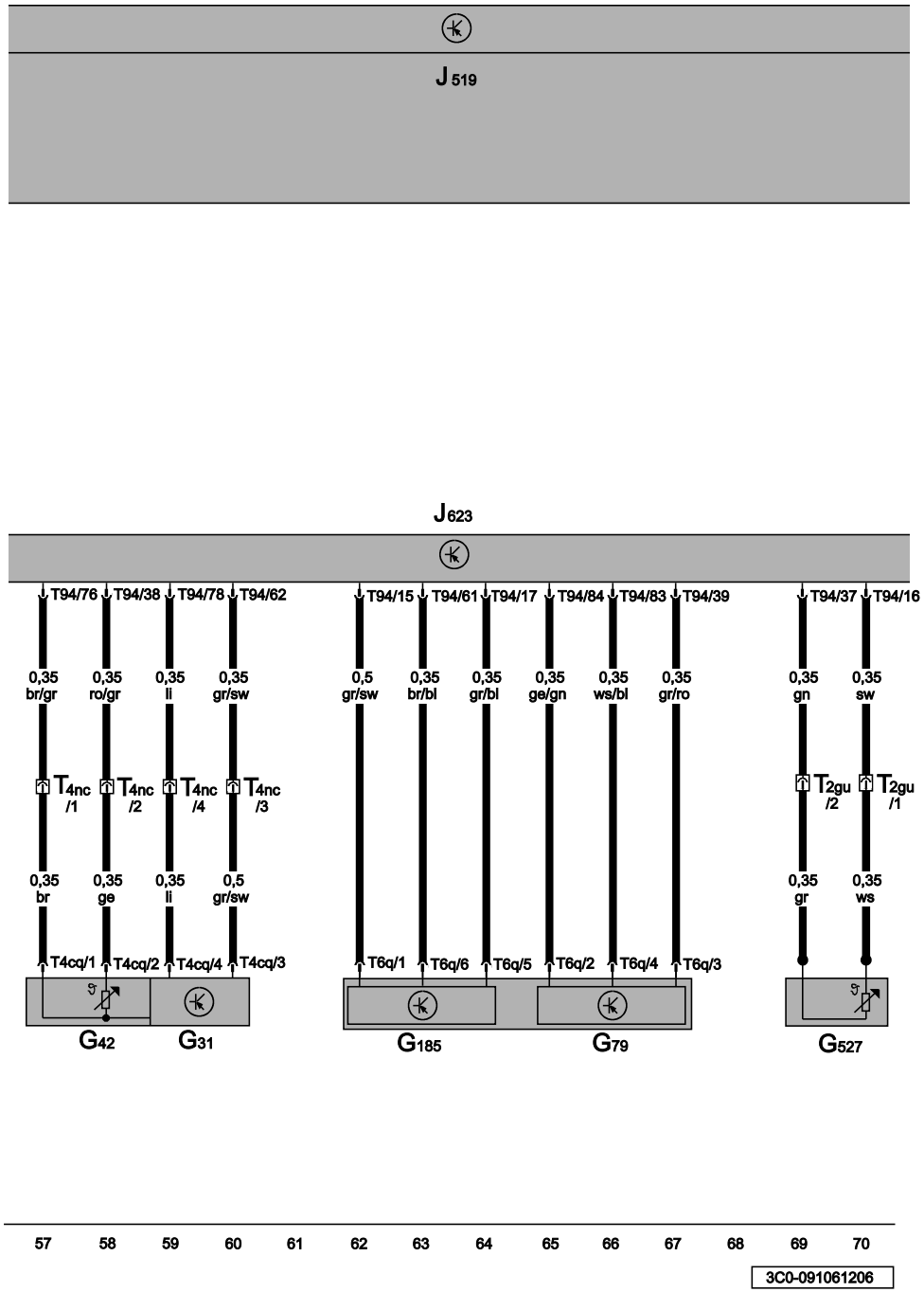


Engine control unit, radiator outlet coolant temperature sender, unit injector valves of cylinders 1-4

G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N240	Unit injector valve of cylinder 1
N241	Unit injector valve of cylinder 2
N242	Unit injector valve of cylinder 3
N243	Unit injector valve of cylinder 4
T2eh	2-pin connector
T10v	10-pin connector, on left of cylinder head
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D107	Connection 5, in engine compartment wiring harness
*	Unassigned wire

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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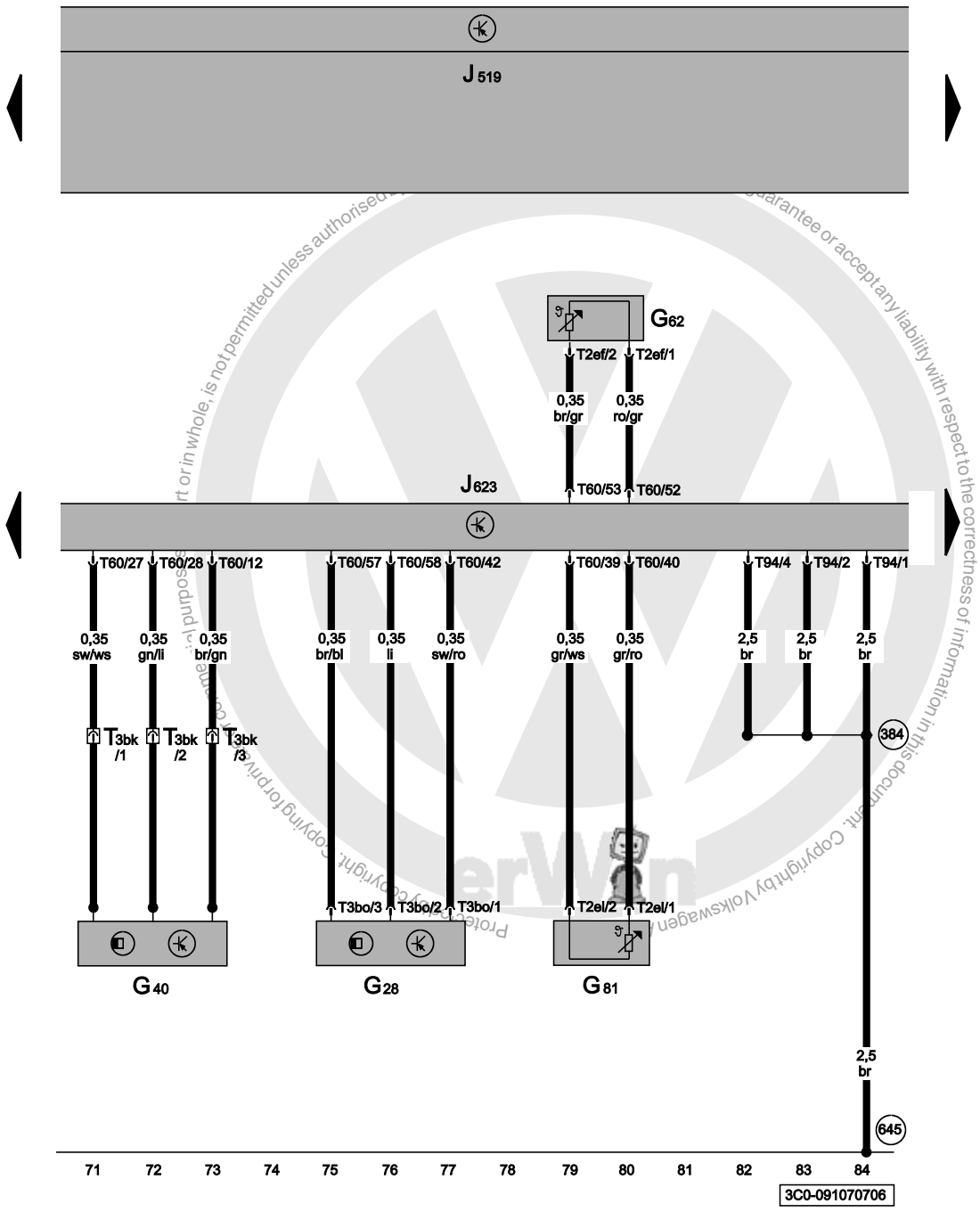


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender, temperature sender after particulate filter

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G527	Temperature sender after particulate filter
J519	Onboard supply control unit
J623	Engine control unit
T2gu	2-pin connector
T4cq	4-pin connector
T4nc	4-pin connector, near starter
T6q	6-pin connector
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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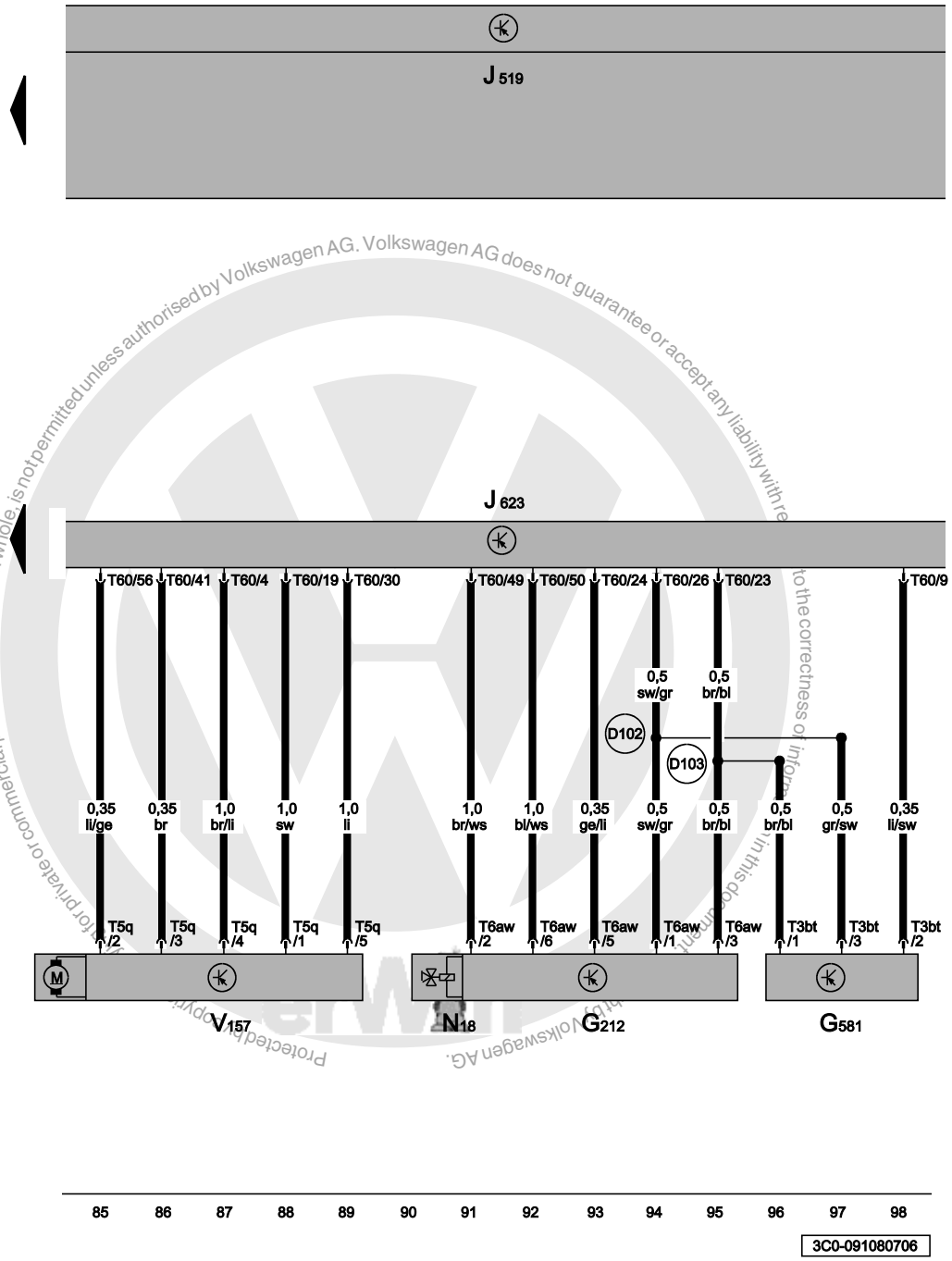


Engine control unit, engine speed sender, Hall sender, fuel temperature sender, coolant temperature sender

G28	Engine speed sender
G40	Hall sender
G62	Coolant temperature sender
G81	Fuel temperature sender
J519	Onboard supply control unit
J623	Engine control unit
T2ef	2-pin connector
T2el	2-pin connector, black
T3bk	3-pin connector, black
T3bo	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
384	Earth connection 19, in main wiring harness
645	Earth point 1, on bulkhead

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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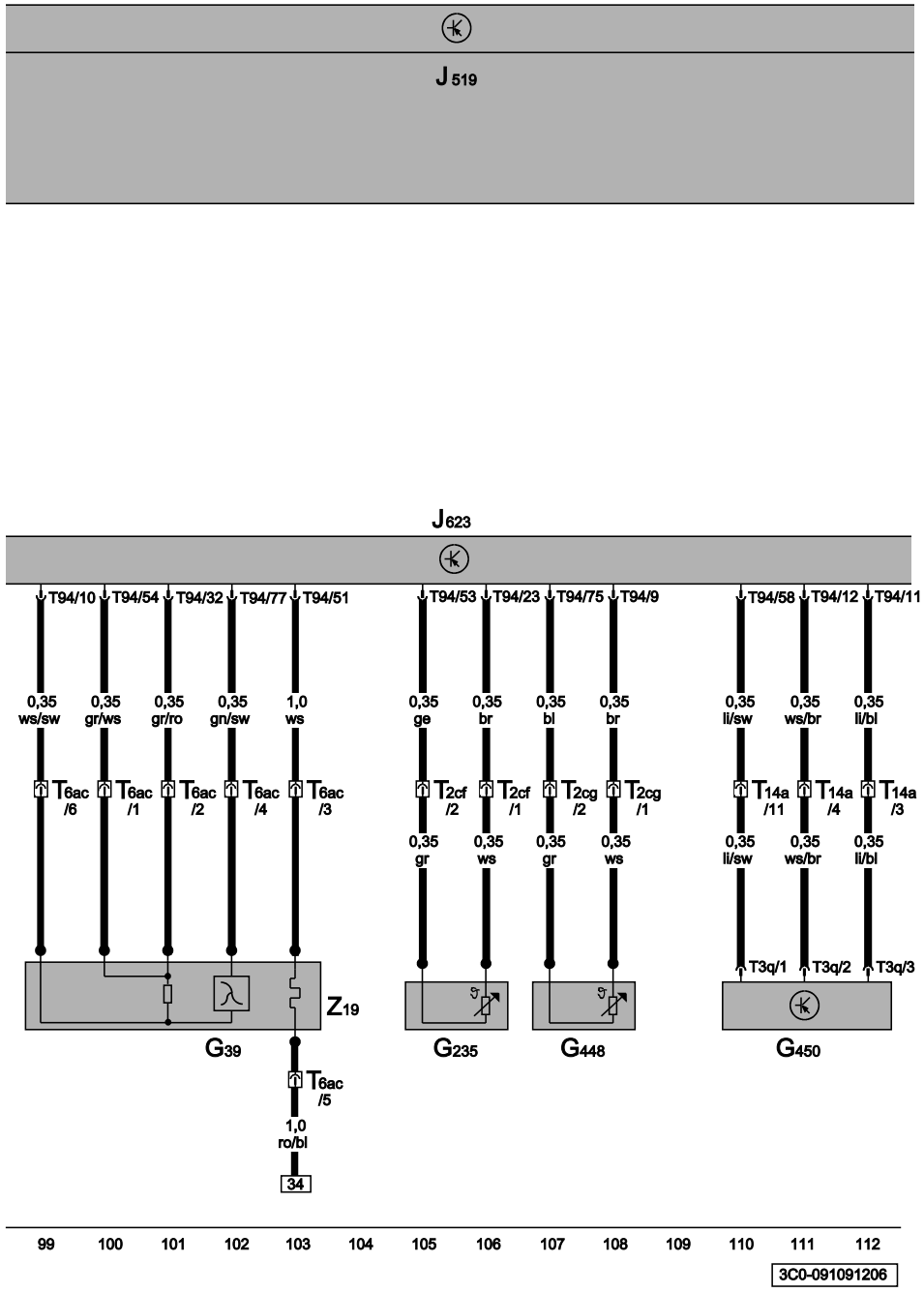


Engine control unit, intake manifold flap motor, exhaust gas recirculation potentiometer, exhaust gas recirculation valve, position sender for charge pressure positioner

G212	Exhaust gas recirculation potentiometer
G581	Position sender for charge pressure positioner
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
T3bt	3-pin connector
T5q	5-pin connector
T6aw	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor
D102	Connection 2, in engine compartment wiring harness
D103	Connection 3, in engine compartment wiring harness

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br	=	brown
gn	=	green
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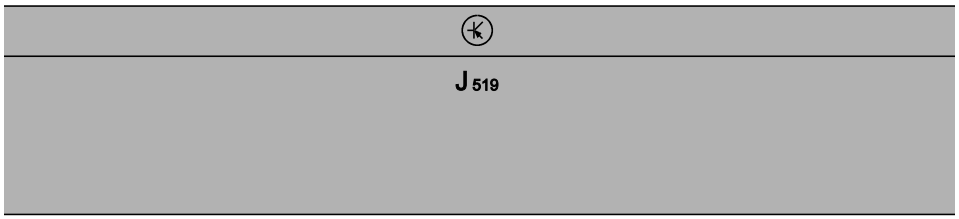


Engine control unit, Lambda probe, exhaust gas pressure sensor 1, exhaust gas temperature sender 1, exhaust gas temperature sender 2 for bank 1

G39	Lambda probe
G235	Exhaust temperature sender 1
G448	Exhaust gas temperature sender 2 for bank 1
G450	Exhaust gas pressure sensor 1
J519	Onboard supply control unit
J623	Engine control unit
T2cf	2-pin connector, black
T2cg	2-pin connector, brown
T3q	3-pin connector
T6ac	6-pin connector, black, coupling point for Lambda probe
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T94	94-pin connector
Z19	Lambda probe heater

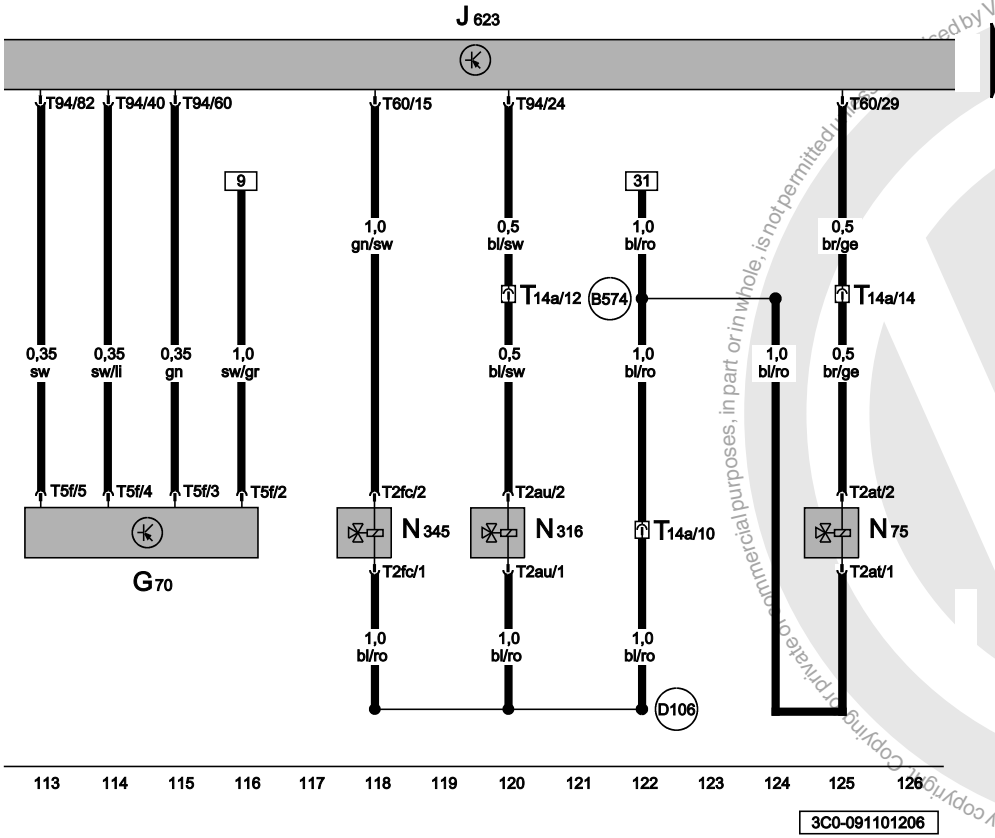
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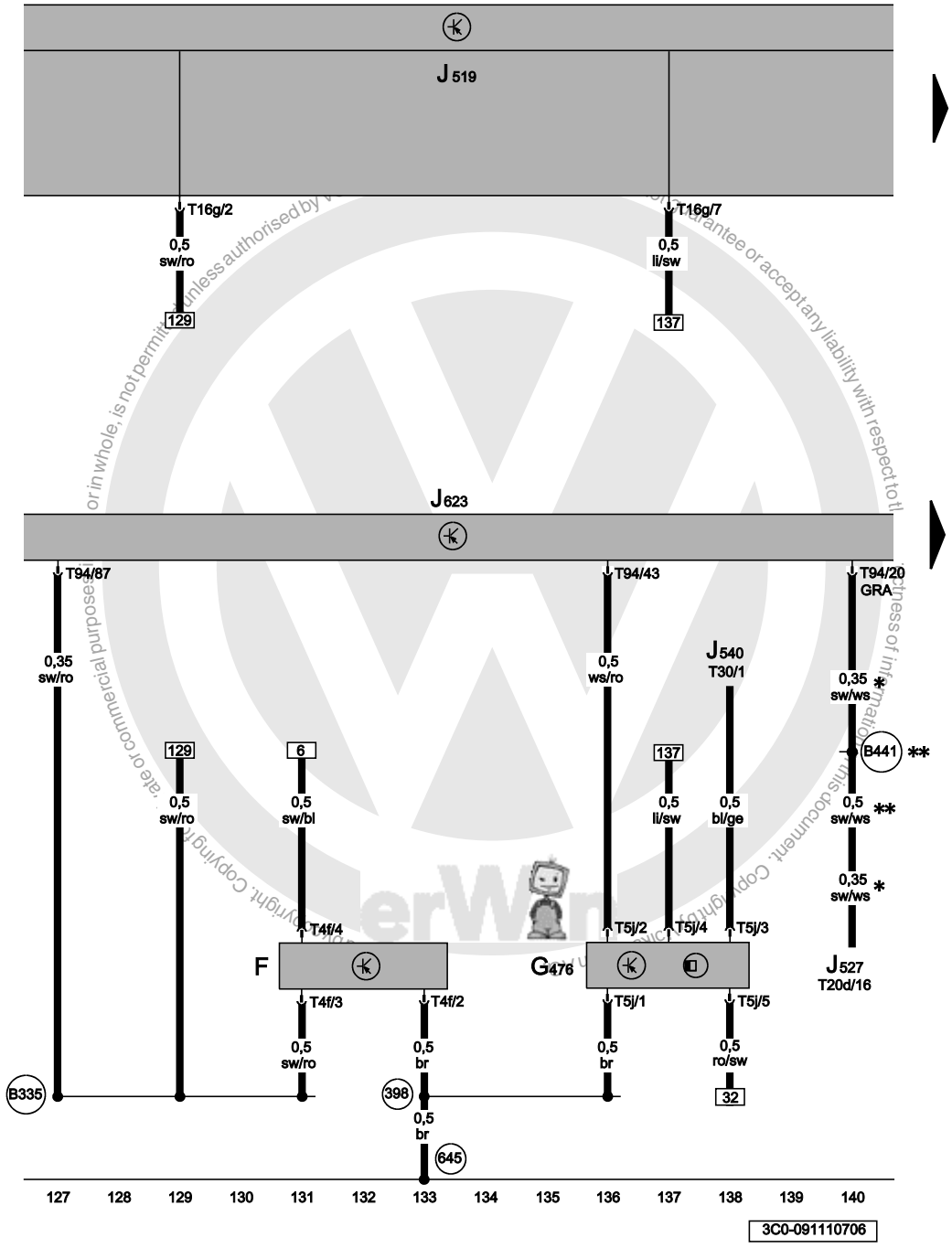
Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler changeover valve, intake manifold flap valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N316	Intake manifold flap valve
N345	Exhaust gas recirculation cooler changeover valve
T2au	2-pin connector
T2at	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness
D106	Connection 4, in engine compartment wiring harness



ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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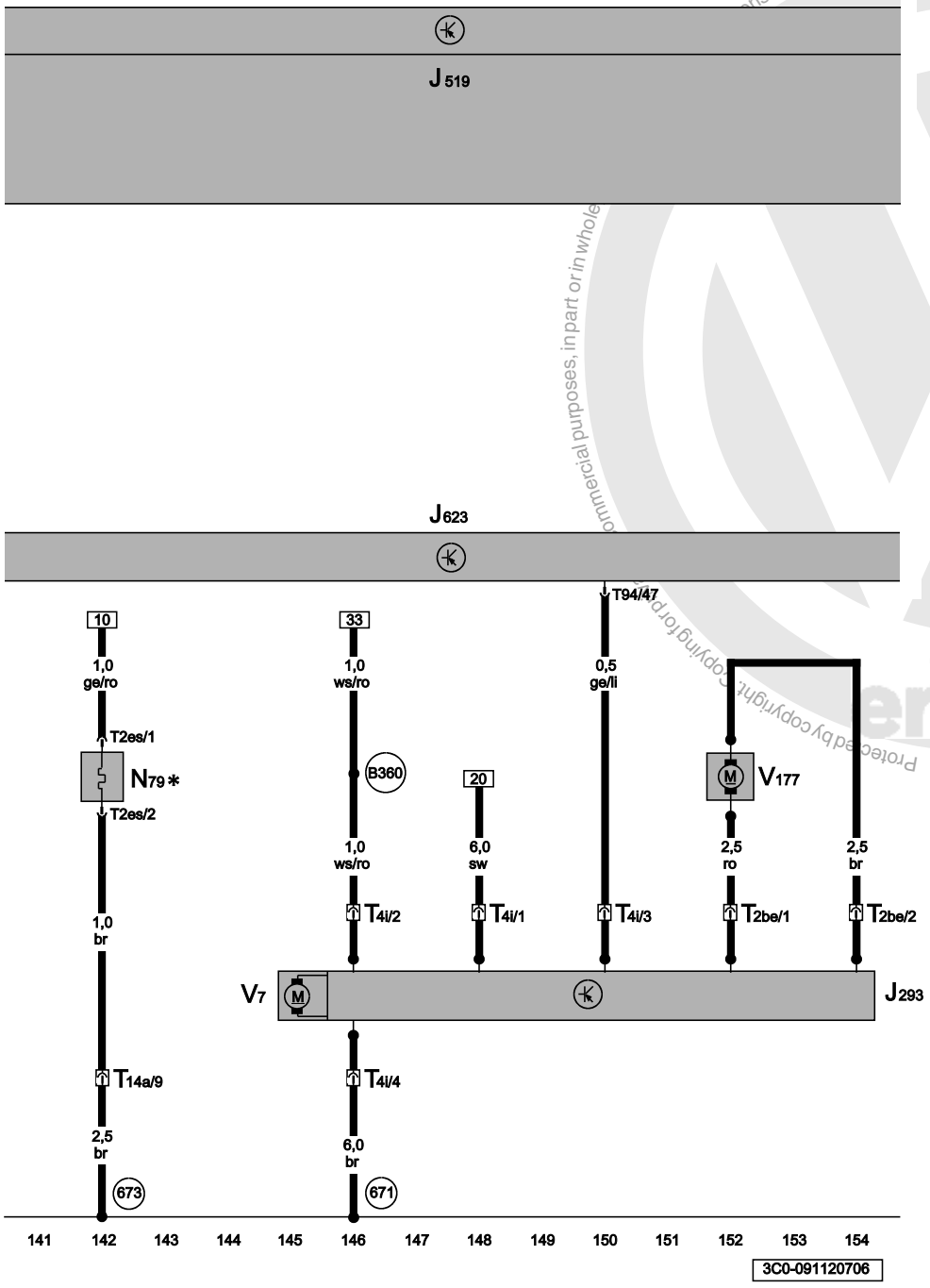
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Engine control unit, clutch position sender, brake light switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

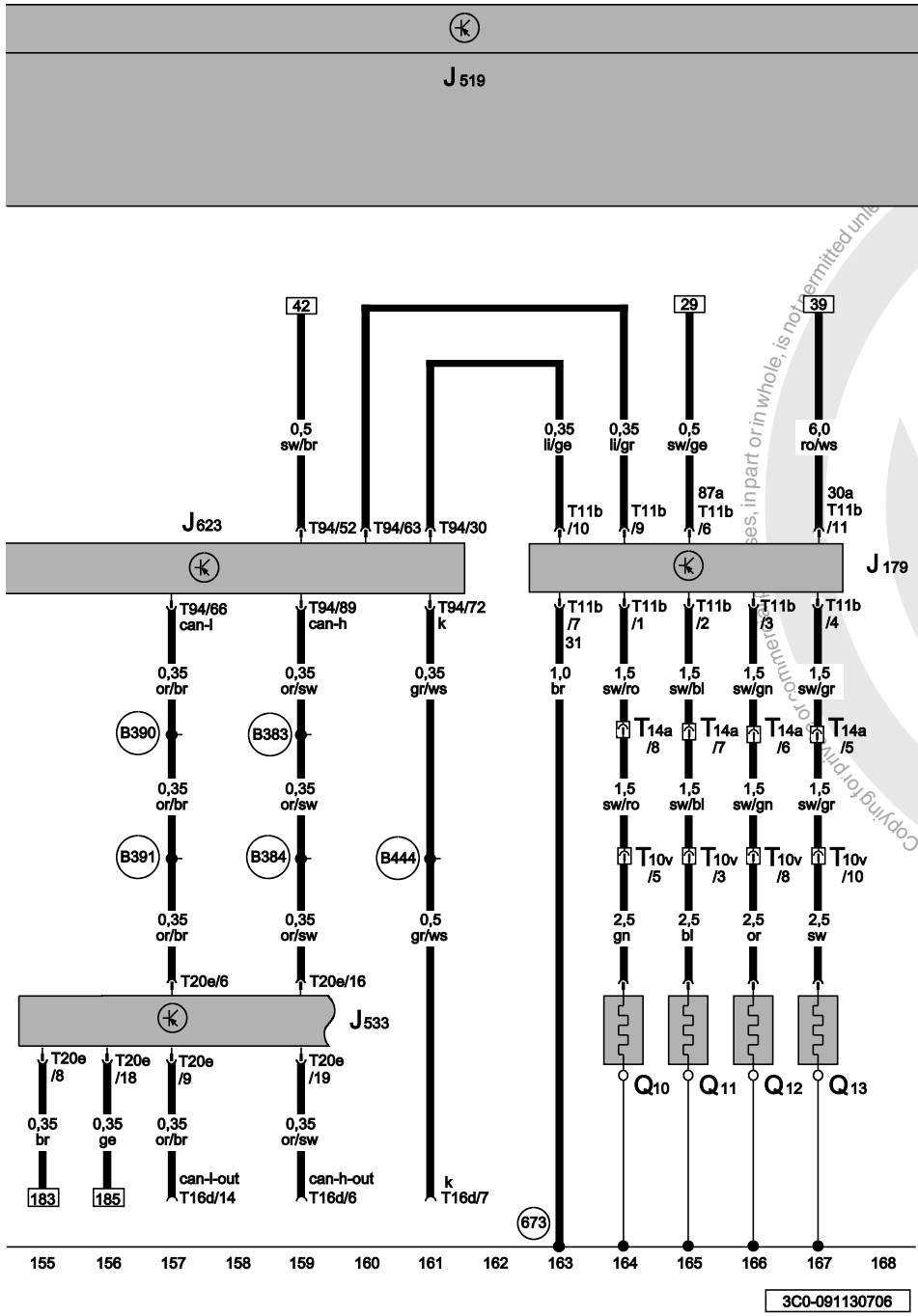


Engine control unit, crankcase breather heater element, radiator fan

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase heater element breather
T2es	2-pin connector
T2be	2-pin connector, on lock carrier
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B360	Connection 11 (87a), in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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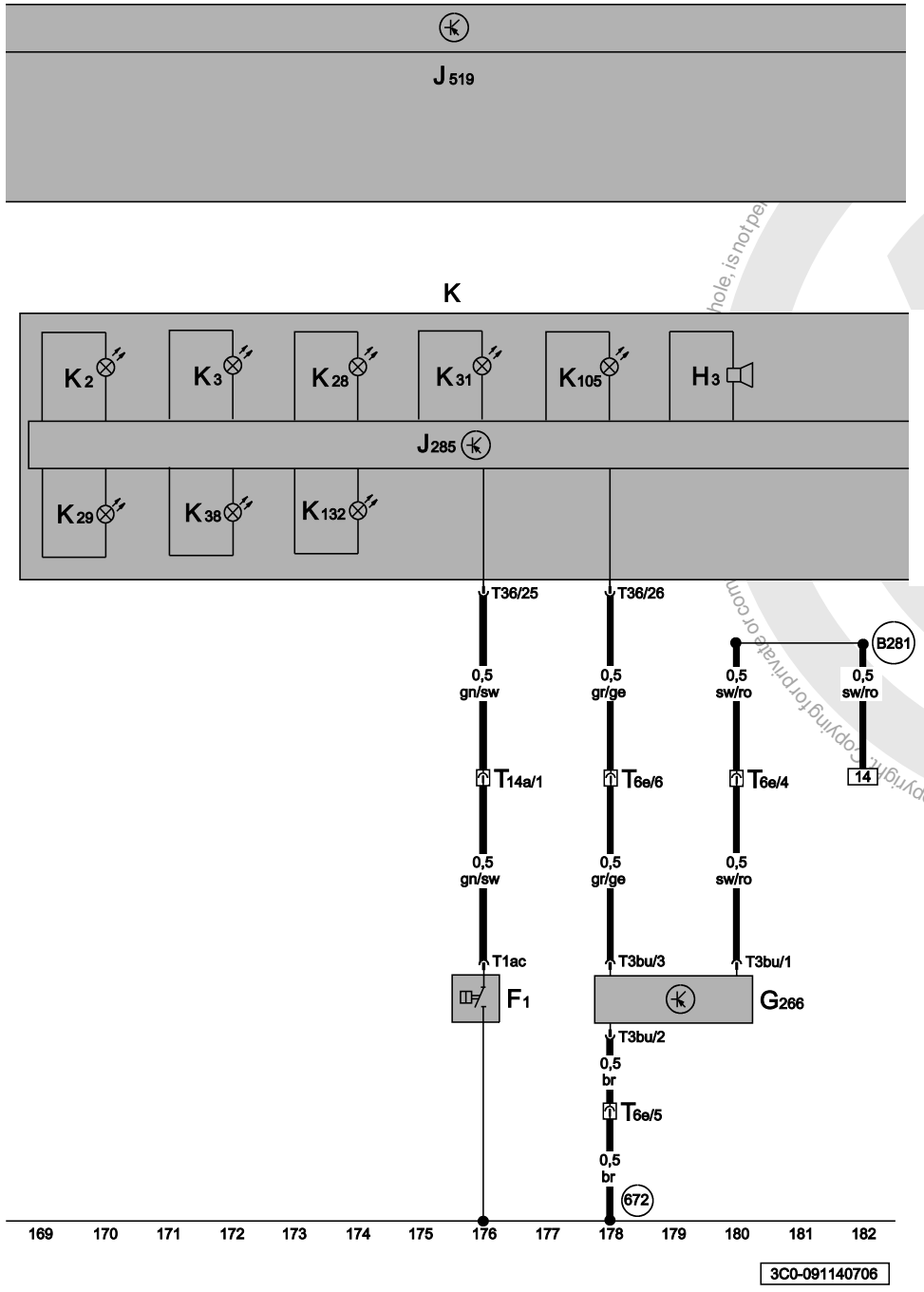


Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T10v	10-pin connector, on left of cylinder head
T11b	11-pin connector
T14a	14-pin connector, coupling point 1, on left in engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
673	Earth point 3, on front of left longitudinal member
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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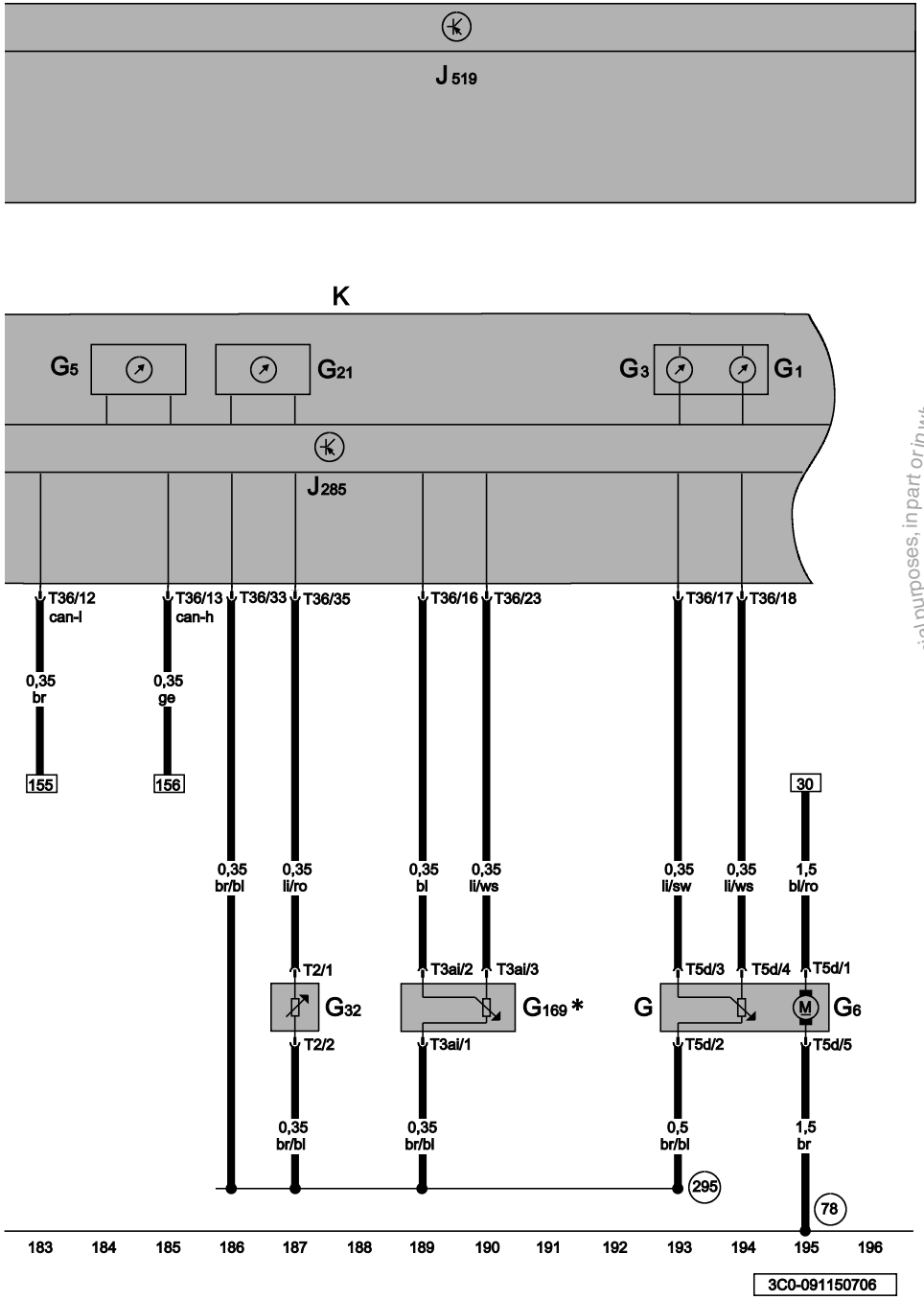


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point, electric steering, in engine compartment
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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Dash panel insert, rev counter, speedometer, coolant temperature gauge, fuel system pressurisation pump, fuel gauge

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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2.0 l/110 kW Motronic, engine code BLR, BLY, BLX

From May 2006

2.0 l/110 kW Motronic, engine code BVX, BVY, BVZ

From May 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

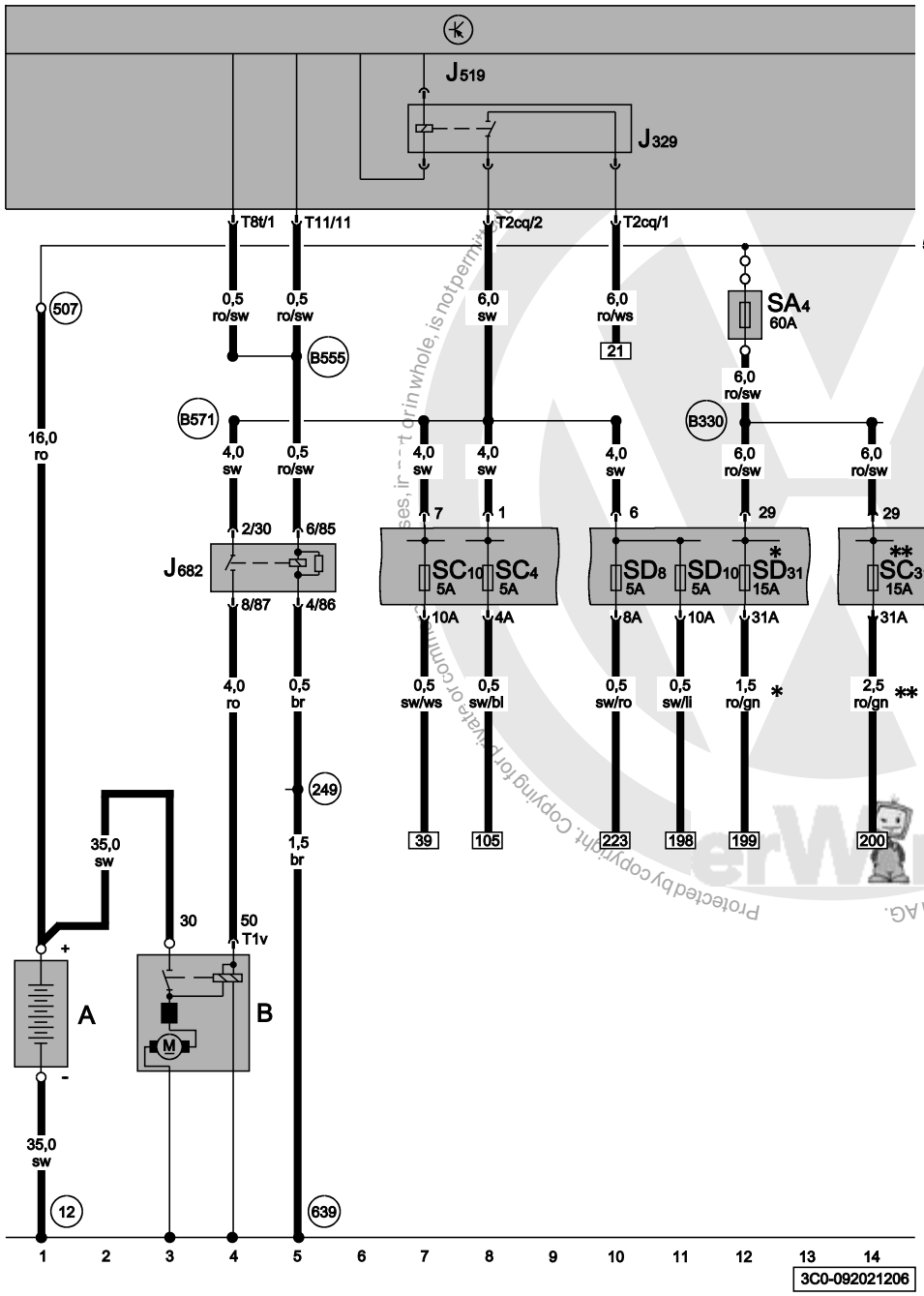
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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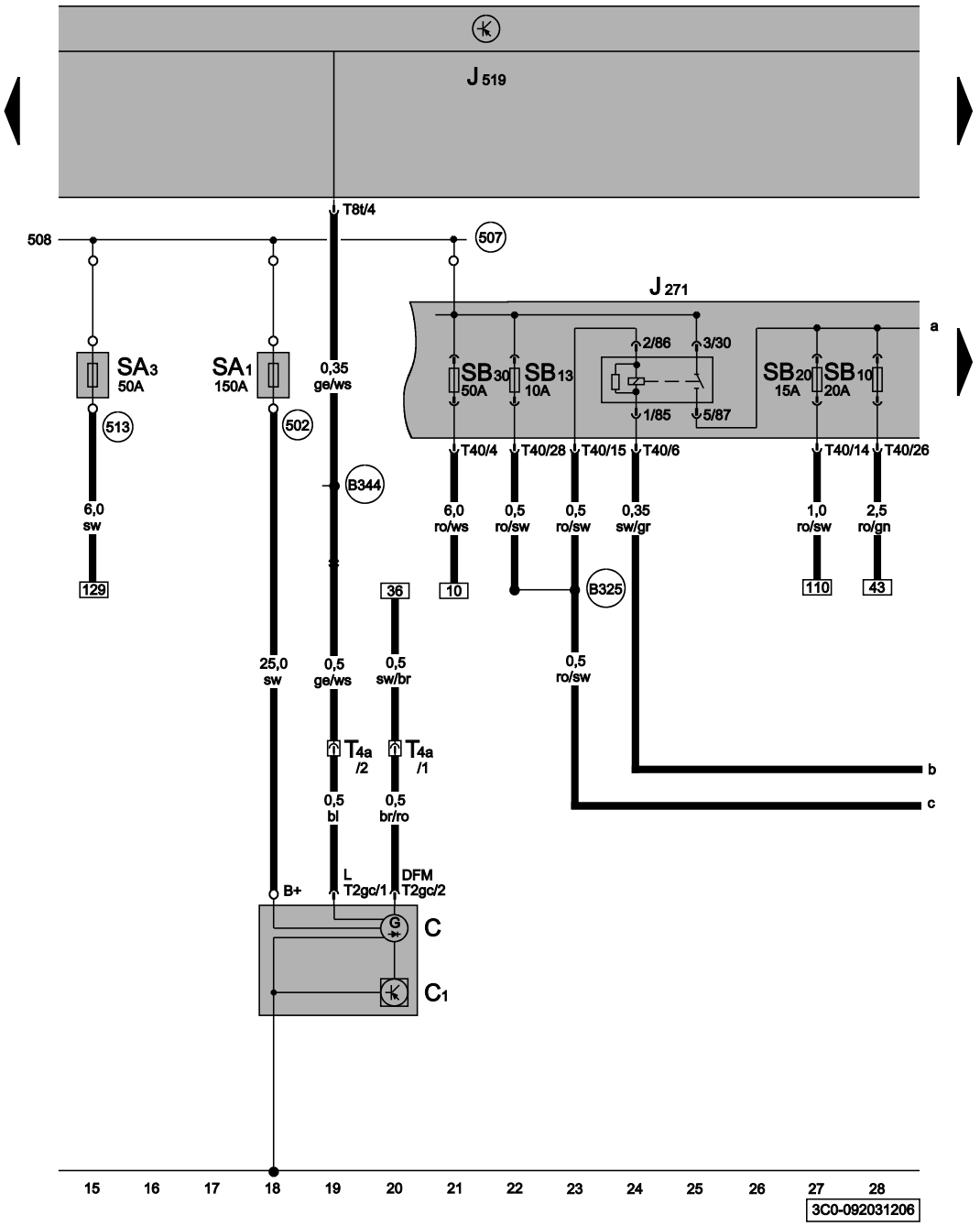


Battery, starter, terminal 15 voltage supply relay 2, terminal 50 voltage supply relay 2, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
J329	Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, (433)
SA4	Fuse 4 on fuse holder A
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
SD10	Fuse 10 on fuse holder D
SD31	Fuse 31 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
507	Threaded connection (30), on fuse holder on battery
639	Earth point, left A-pillar
B330	Connection 19 (30a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38 in main wiring harness
*	applicable up to October 2006
**	applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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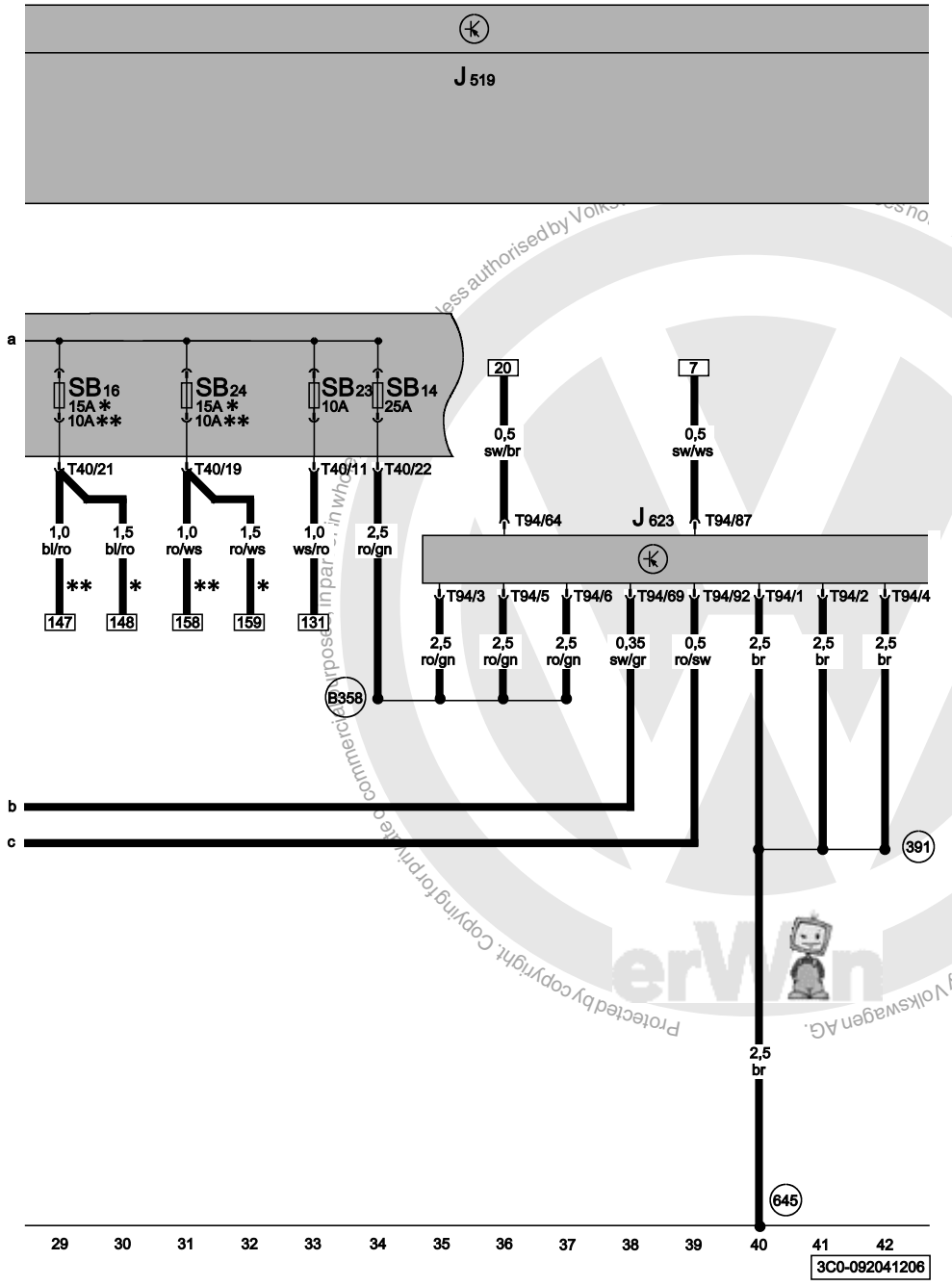


Alternator, fuel system pressurisation pump, terminal 15 voltage supply relay, fuses

C	Alternator
C1	Voltage regulator
J271	Motronic current supply relay (458)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB30	Fuse 30 on fuse holder B
T2gc	2-pin connector
T4a	2-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
507	Threaded connection (30), on fuse holder on battery
502	Threaded connection 1 (30a) on relay plate
513	Threaded connection 3 (30a) on relay plate
B325	Connection 11 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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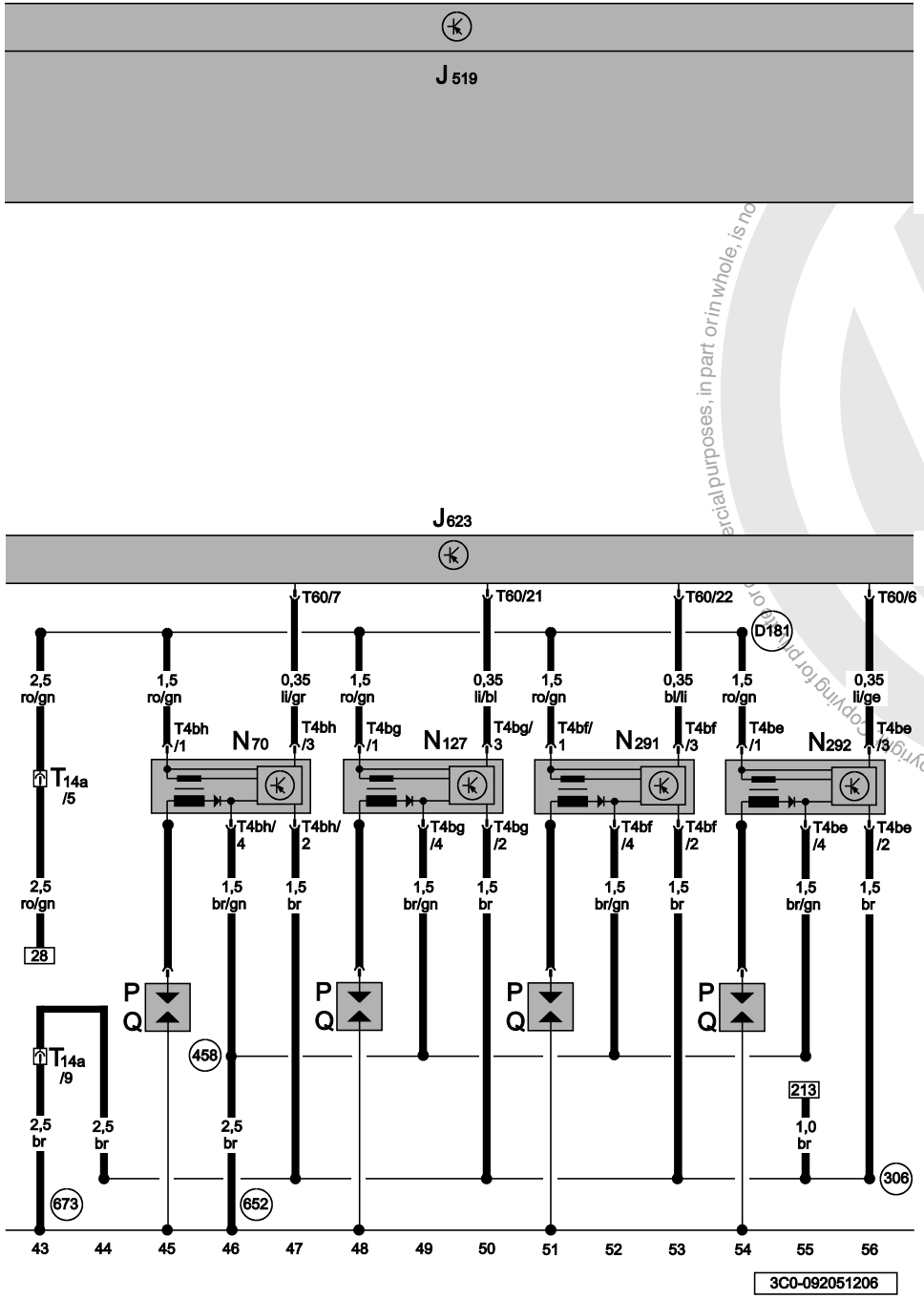


Engine control unit, fuses SB

J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
T40	40-pin connector
T94	94-pin connector
391	Earth connection 26, in main wiring harness
645	Earth point 1, bulkhead
B358	Connection 9 (87a), in main wiring harness
*	only models with engine codes BLR, BLX, BVX, BVY
**	for models with engine code BLY, BVZ only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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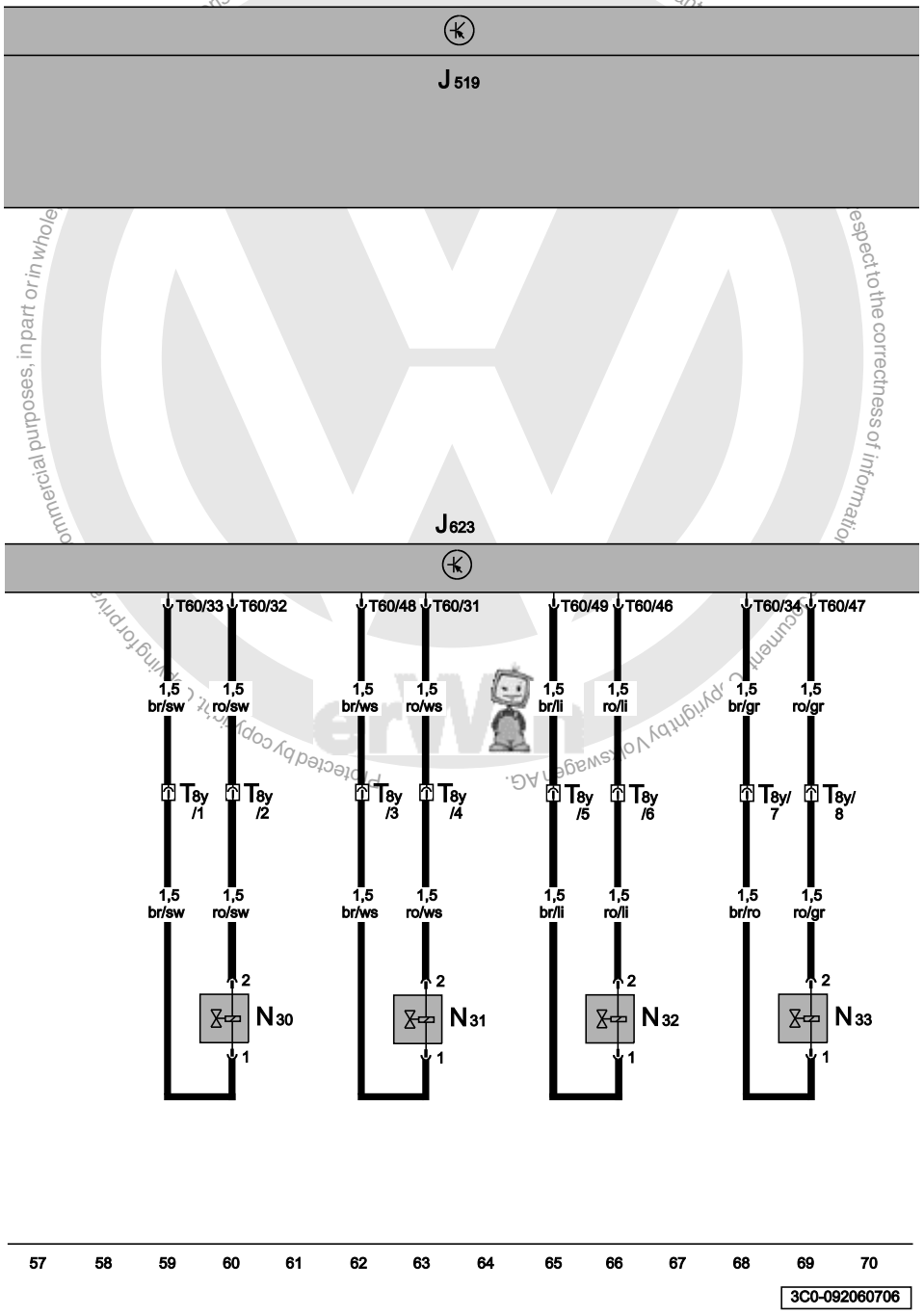


Engine control unit, ignition coils 1 to 4 with output stage, spark plugs, spark plug connectors

J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plug
T4bh	4-pin connector
T4bg	4-pin connector
T4bf	4-pin connector
T4be	4-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
306	Earth connection (ignition coils), in engine prewiring harness
458	Earth point 3, engine prewiring harness
652	Earth point, engine and gearbox earth
673	Earth point 3, on front of left longitudinal member
D181	Connection 2 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

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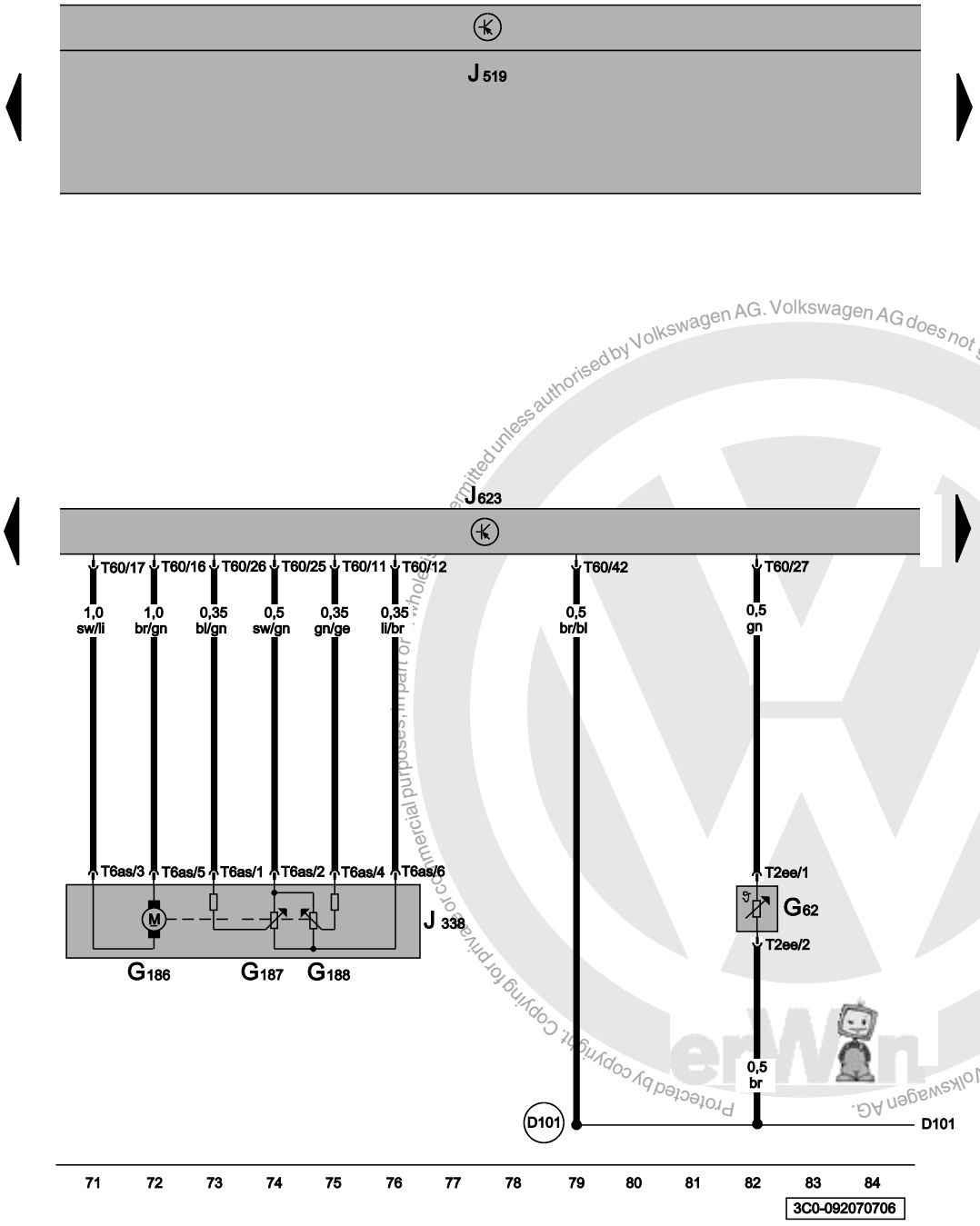


Engine control unit, injectors for cylinders 1-4

J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8y	8-pin connector, black, near cylinder head
T60	60-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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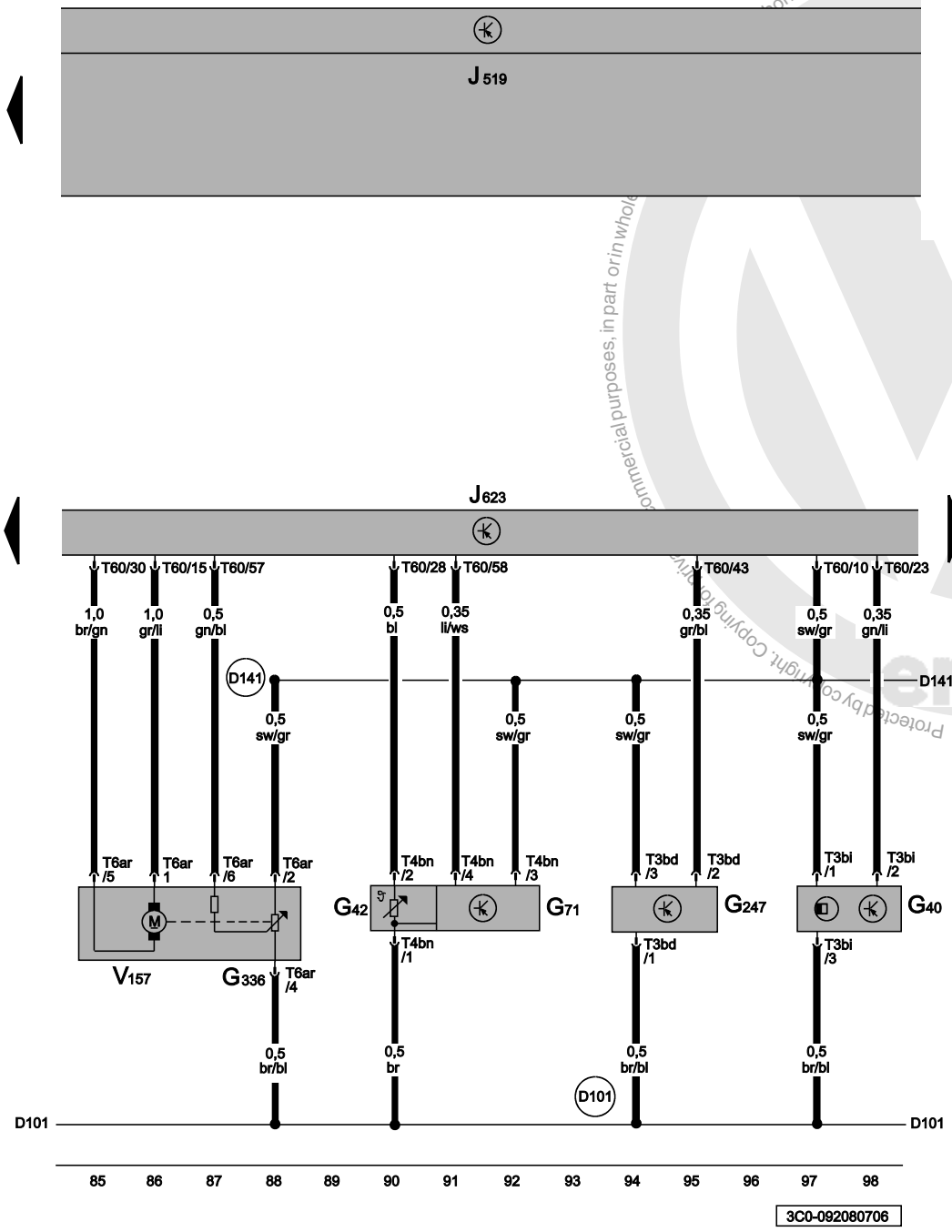


Engine control unit, throttle valve drive, coolant temperature sender

G62	Coolant temperature sender
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
T2ee	2-pin connector
T6as	6-pin connector
T60	60-pin connector
D101	Connection 1, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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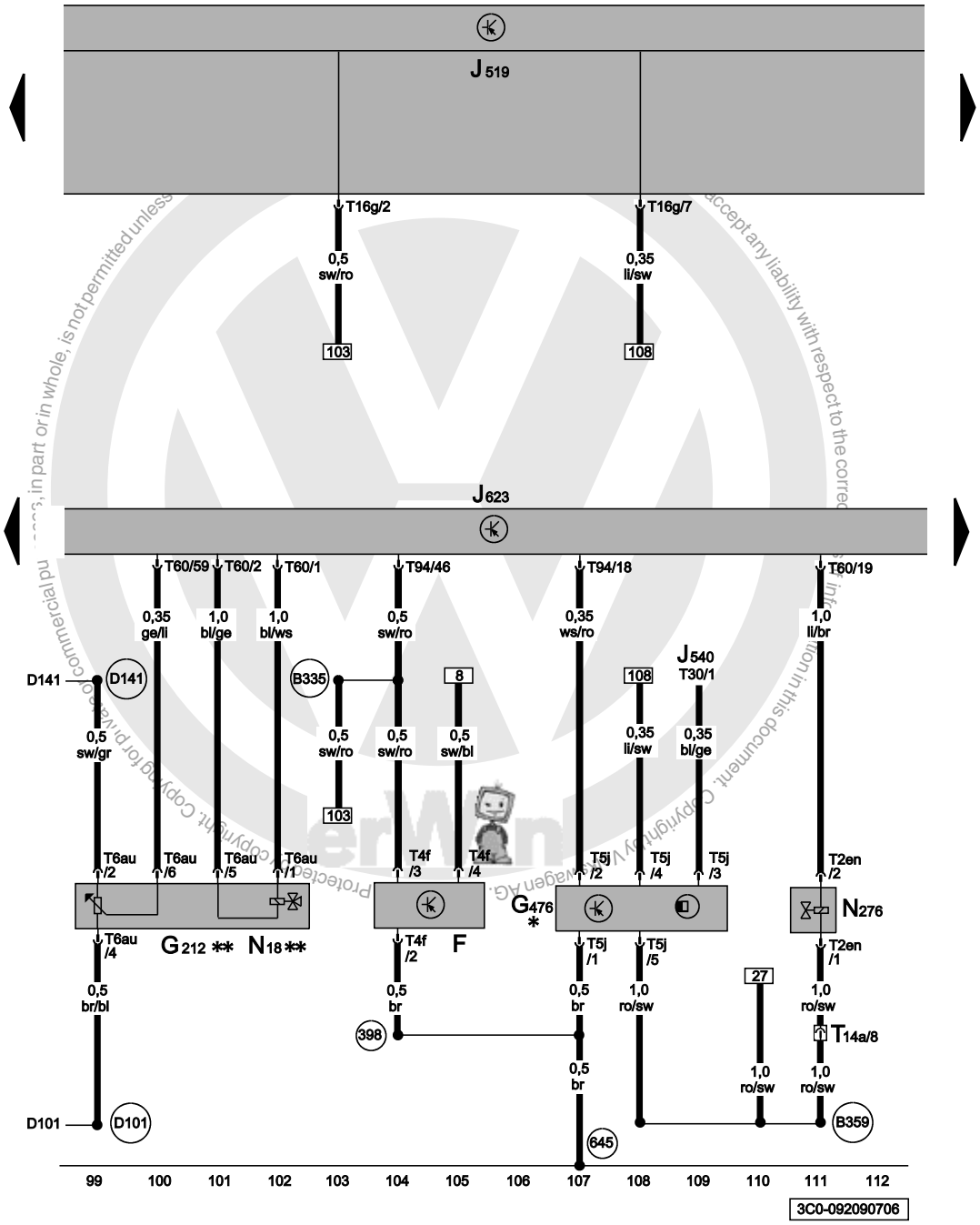


Engine control unit, intake air temperature sender, fuel pressure sender, coolant temperature sender, intake manifold flap potentiometer

G40	Hall sender
G42	Intake air temperature sender
G71	Intake manifold pressure sender
G247	Fuel pressure sender
G336	Intake manifold flap potentiometer
J519	Onboard supply control unit
J623	Engine control unit
T3bd	3-pin connector
T3bi	3-pin connector
T4bn	4-pin connector
T6ar	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

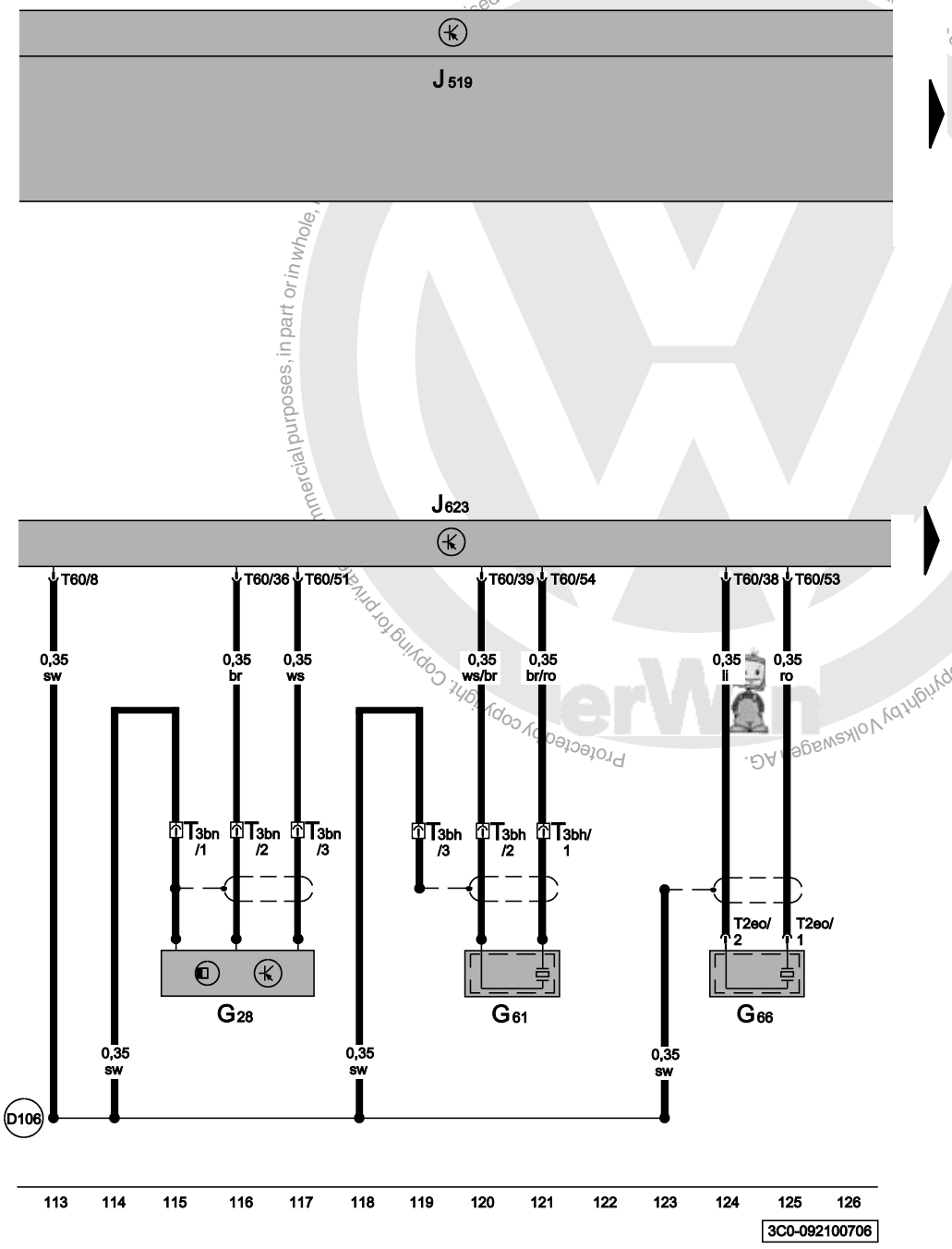
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ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
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rs = pink

Engine control unit, fuel pressure regulating valve, clutch position sender, brake light switch, exhaust gas recirculation valve

F	Brake light switch
G212	Exhaust gas recirculation potentiometer
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
N18	Exhaust gas recirculation valve
N276	Fuel pressure regulating valve
T2en	2-pin connector
T4f	4-pin connector
T5j	5-pin connector
T6au	6-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T16g	16-pin connector
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, bulkhead
B335	Connection 1 (54), in main wiring harness
B359	Connection 10 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness
*	models with manual gearbox
**	only models with engine codes BLR, BLX, BVX, BVY

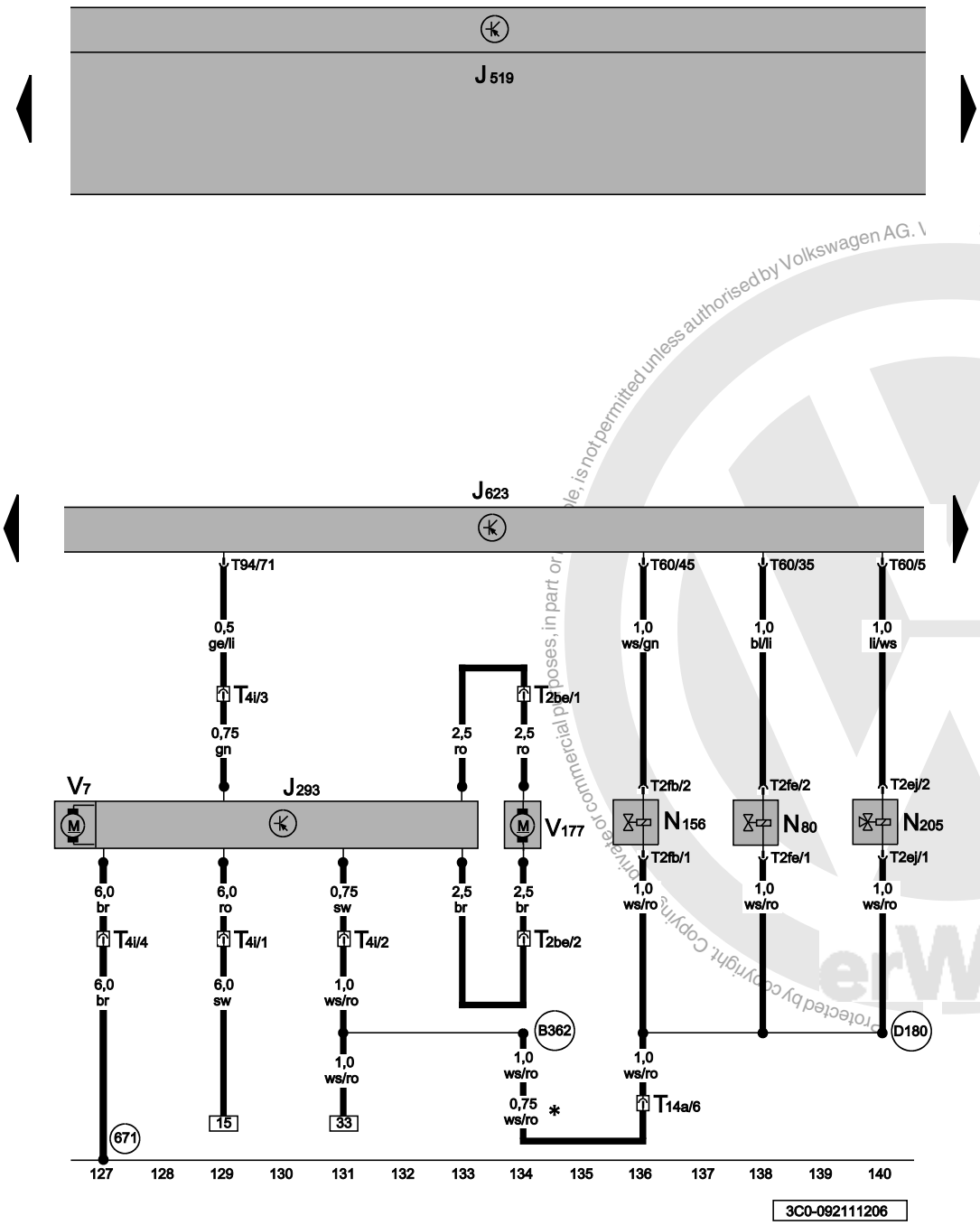


Engine control unit, engine speed sender, knock sensors 1 and 2

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J519	Onboard supply control unit
J623	Engine control unit
T3bh	3-pin connector, black
T3bn	3-pin connector, black
T2eo	2-pin connector
T60	60-pin connector
D106	Connection 4, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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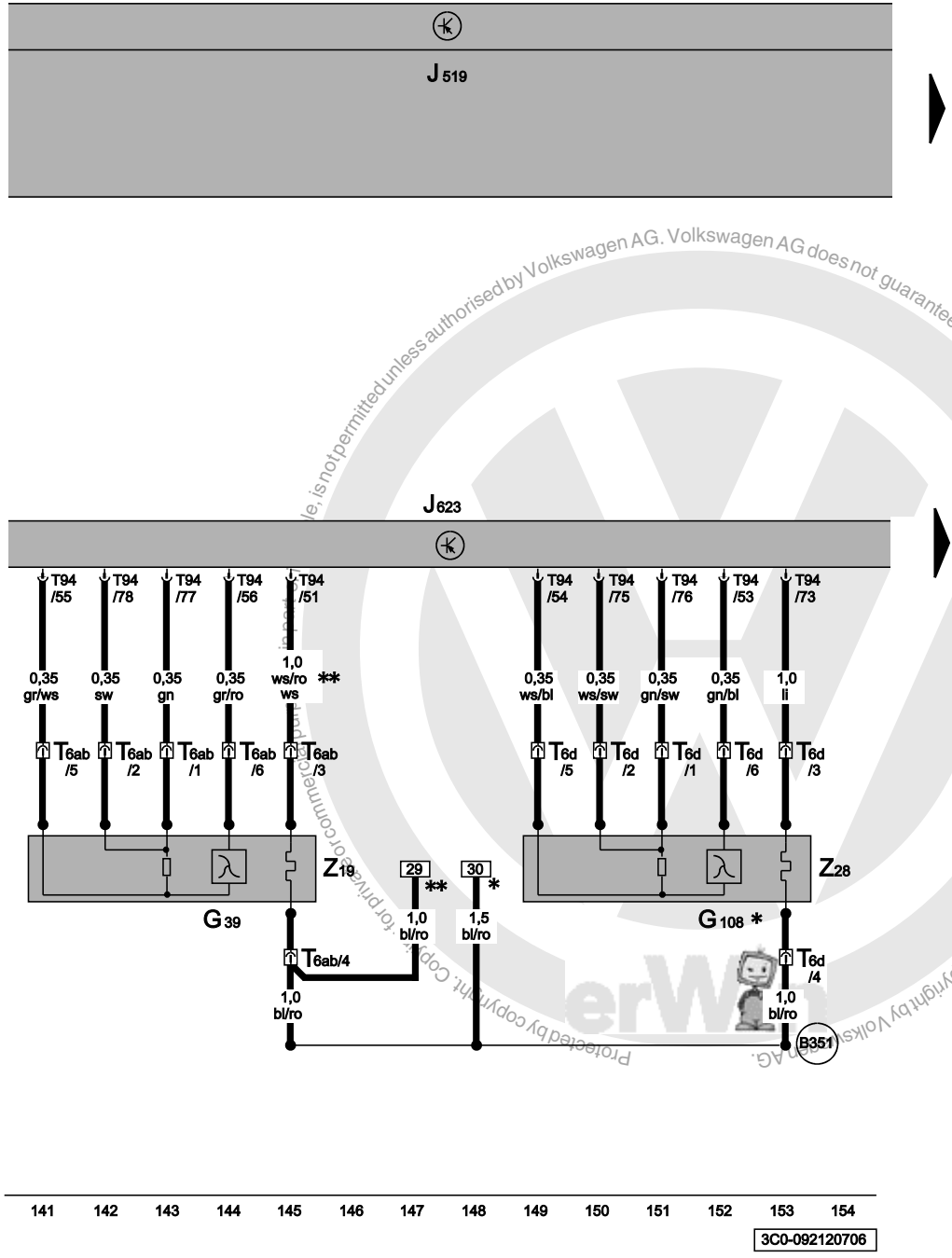


Engine control unit, radiator fan control unit, active charcoal filter system solenoid valve 1, inlet camshaft control valve 1, variable intake manifold change-over valve

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N80	Activated charcoal filter solenoid valve 1
N156	Variable intake manifold change-over valve
N205	Inlet camshaft control valve 1
T2be	2-pin connector, on lock carrier
T2fb	2-pin connector
T2fe	2-pin connector
T2ej	2-pin connector
T4i	4-pin connector, black, coupling point radiator fan on centre lock carrier
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B362	Connection 13 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness
*	applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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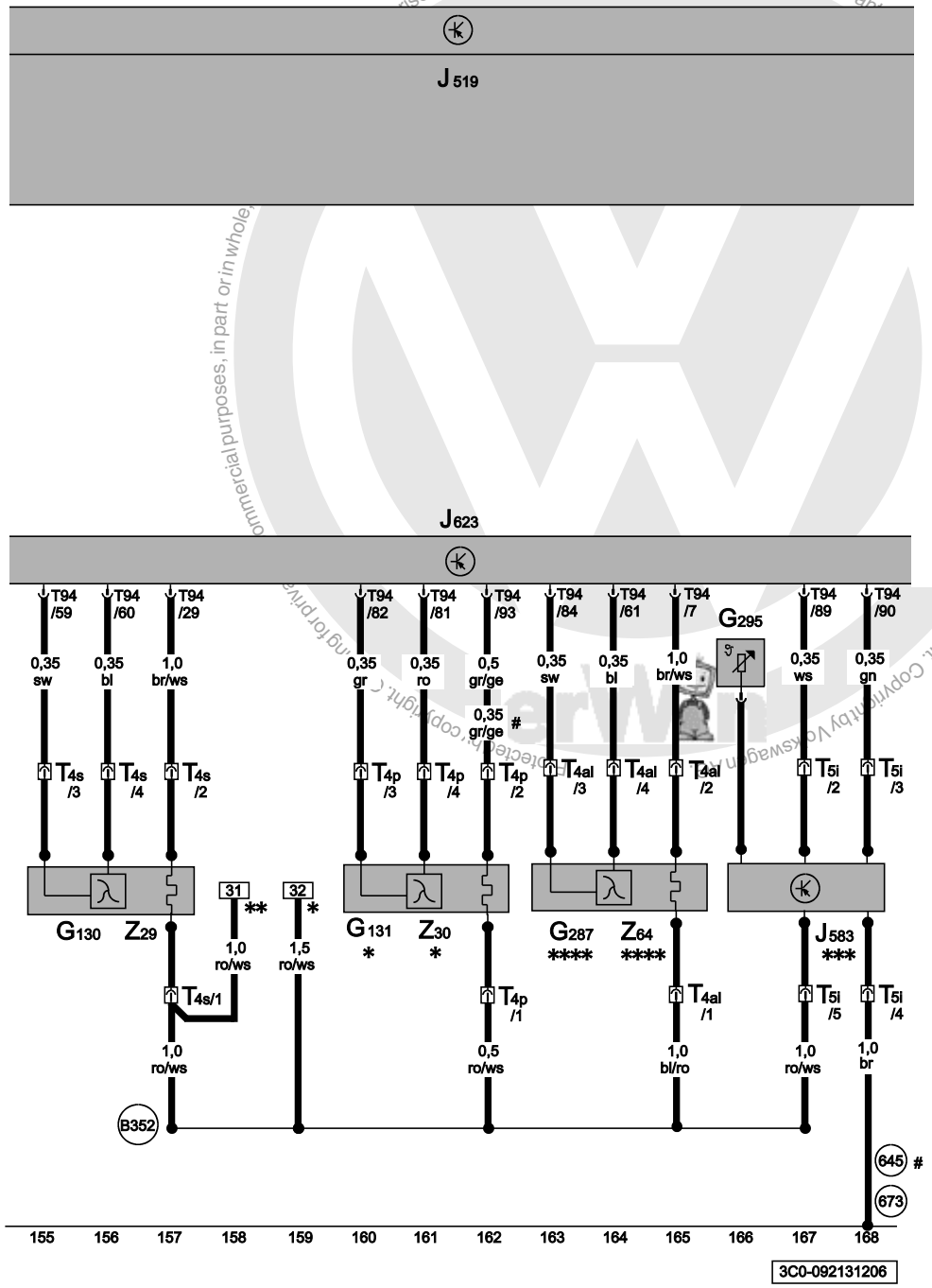


Engine control unit, Lambda probe, Lambda probe 2

G39	Lambda probe
G108	Lambda probe 2
J519	Onboard supply control unit
J623	Engine control unit
T6ab	6-pin connector, black, coupling point for lambda probe
T6d	6-pin connector, black, coupling point for lambda probe
T94	94-pin connector
Z19	Lambda probe heater
Z28	Lambda probe heater 2
(B351)	Connection 2 (87a), in main wiring harness
*	only models with engine codes BLR, BLX, BVX, BVY
**	for models with engine code BLY, BVZ only

ws	=	white
sw	=	black
ro	=	red
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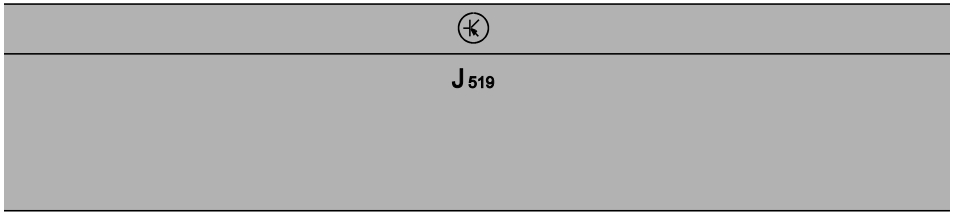


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, Lambda probe after catalytic converter, NOx sensor control unit, NOx sender

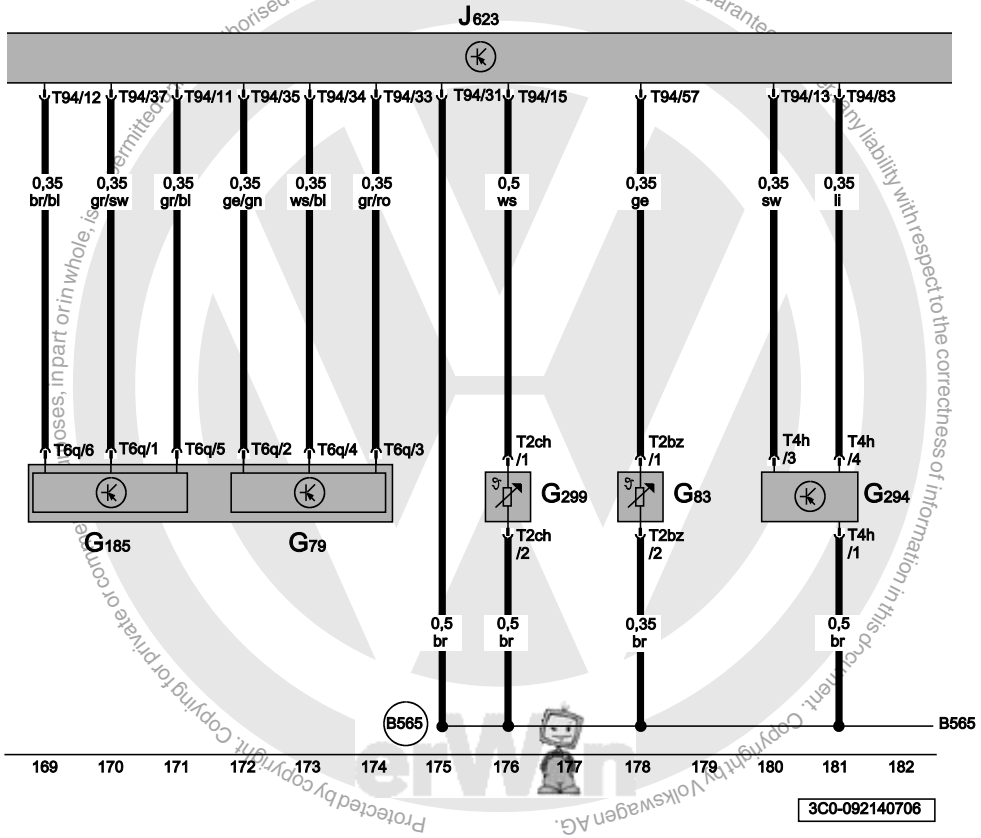
G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter
G287	Lambda probe 3 after catalytic converter
G295	NOx sender
J519	Onboard supply control unit
J583	NOx sensor control unit
J623	Engine control unit
T4p	4-pin connector, connector point Lambda probe
T4s	4-pin connector, connector point Lambda probe
T4al	4-pin connector, connector point Lambda probe
T5i	5-pin connector
T94	94-pin connector
Z29	Lambda probe heater 1, after catalytic converter
Z30	Lambda probe heater 2, after catalytic converter
Z64	Lambda probe heater 3, after catalytic converter
645	Earth point 1, bulkhead
673	Earth point 3, on front of left longitudinal member
B352	Connection 3 (87a), in main wiring harness
*	only models with engine codes BLR, BLX
**	for models with engine code BLY, BVZ only
***	only models with engine codes BLX, BVX
****	only models with engine codes BLR, BVY
#	applicable from November 2006

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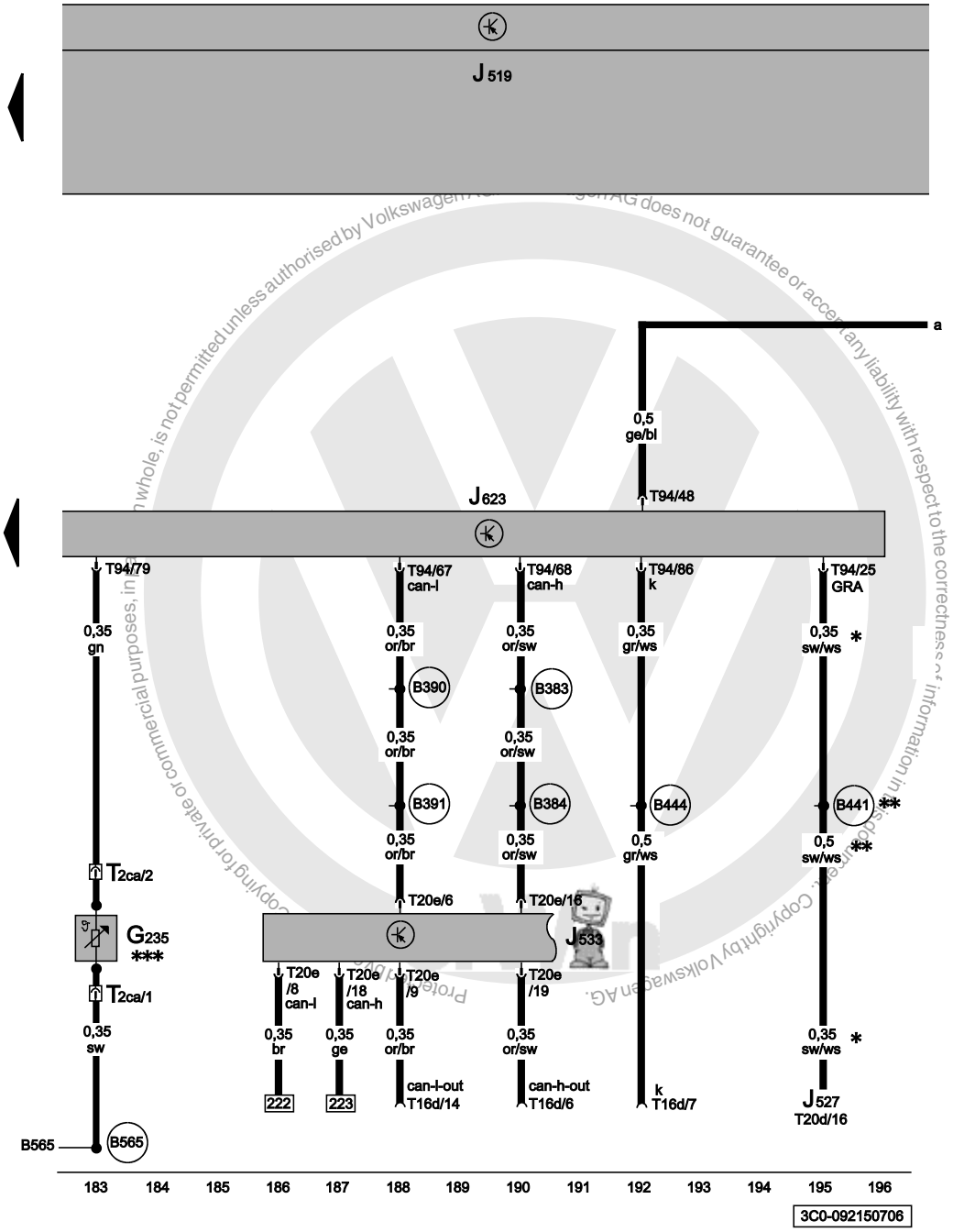
Engine control unit, accelerator position sender, radiator outlet coolant temperature sender, brake servo pressure sensor, intake air temperature sender 2

G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
G294	Brake servo pressure sensor
G299	Intake air temperature sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector
T2ch	2-pin connector
T4h	4-pin connector
T6q	6-pin connector
T94	94-pin connector
B565	Connection 32 in main wiring harness



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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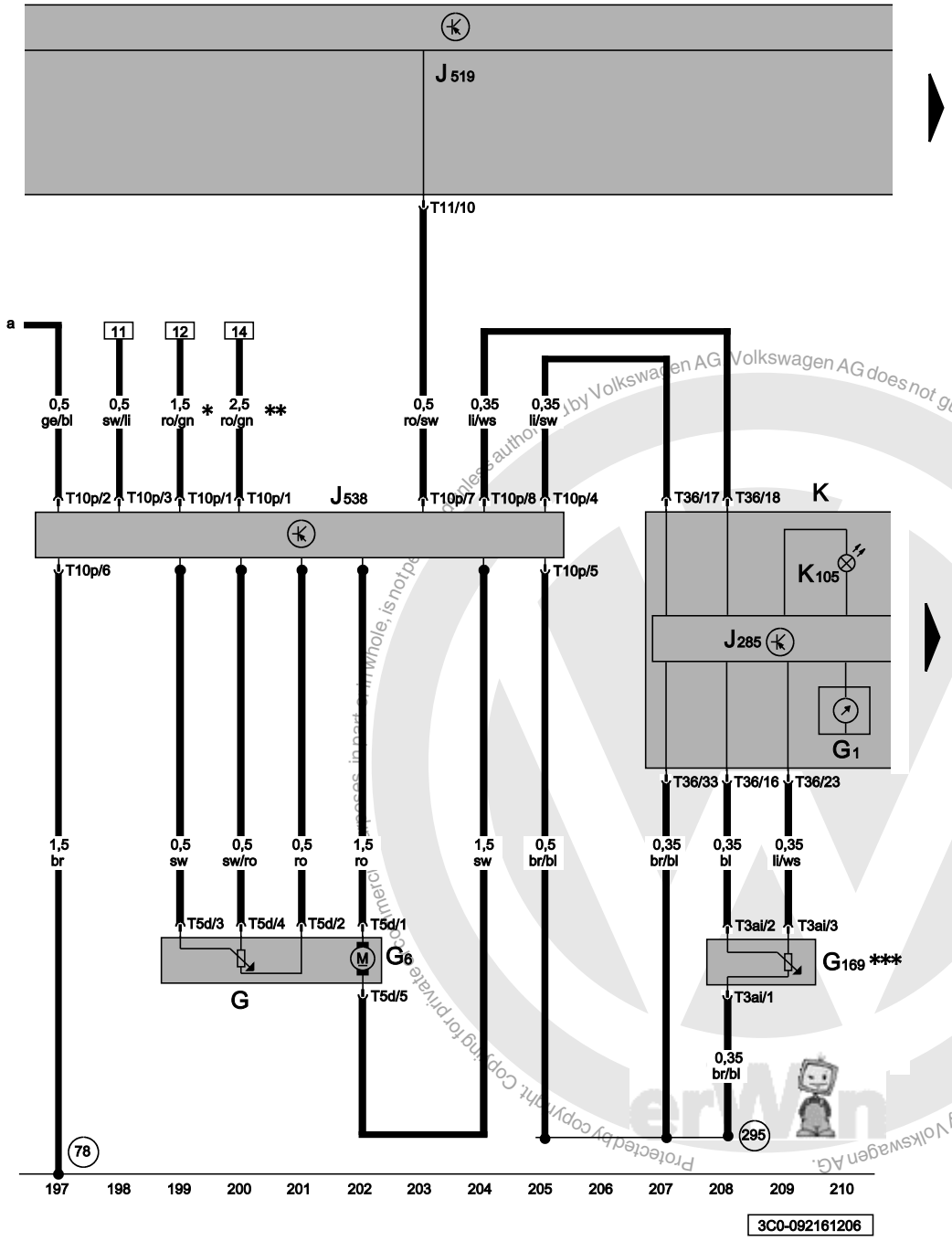


Engine control unit, data bus diagnostic interface, self-diagnosis connection, exhaust gas temperature sender 1

G235	Exhaust temperature sender 1
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J623	Engine control unit
T2ca	2-pin connector, black, coupling point for lambda probe
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T20d	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
B565	Connection 32 in main wiring harness
*	models with CCS only
**	models with adaptive cruise control only
***	only models with engine codes BLX, BVX

ws	=	white
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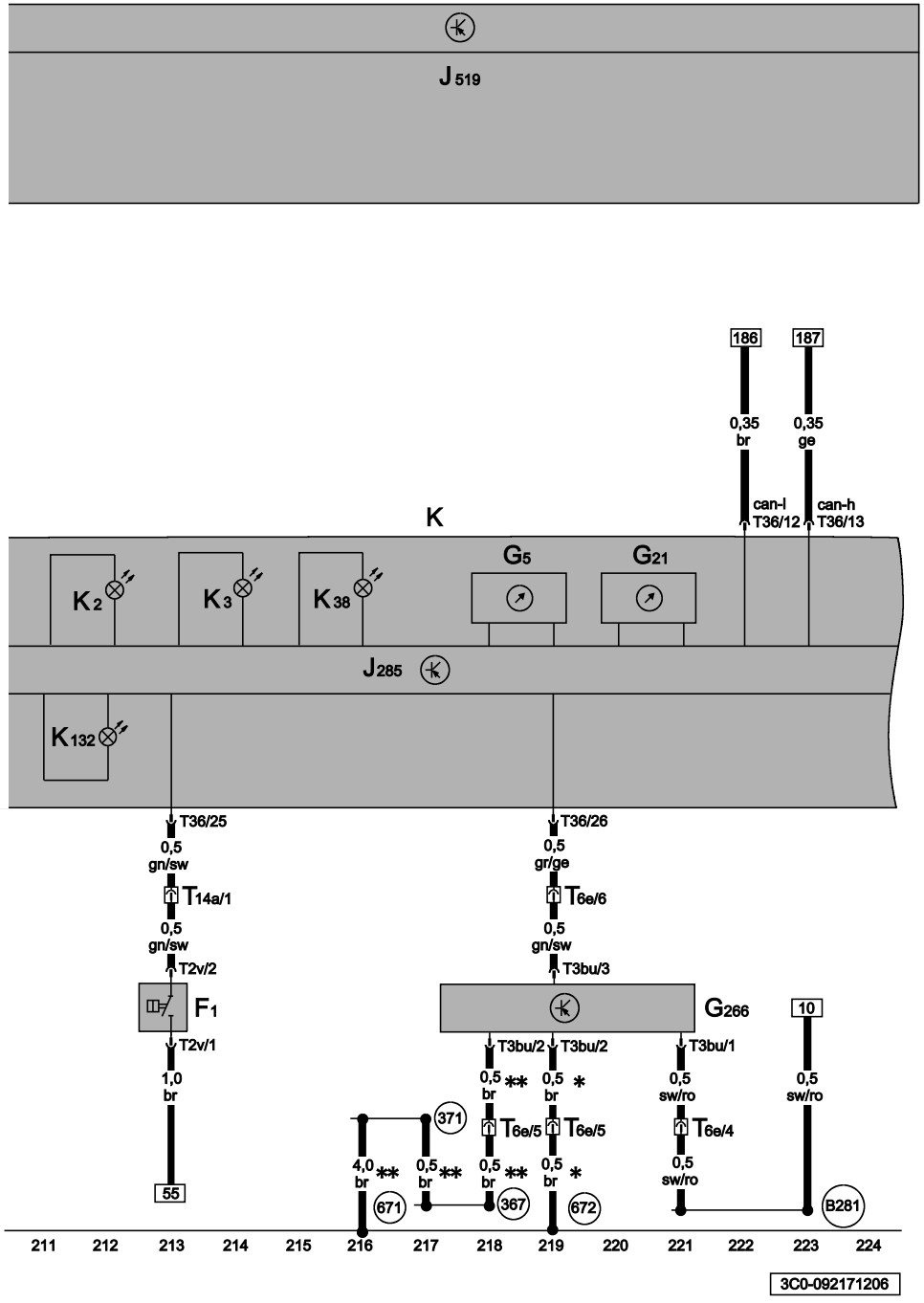


Fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G6	Fuel system pressurisation pump
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J538	Fuel pump control unit
K	Dash panel insert
K105	Reserve fuel warning lamp
T3ai	3-pin connector
T5d	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
*	applicable up to October 2006
**	applicable from November 2006
***	for models with four-wheel drive only

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender, rev. counter, speedometer

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T2v	2-pin connector, black, in engine compartment
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T36	36-pin connector
367	Earth point 2 in main wiring harness
371	Earth point 6 in main wiring harness
671	Earth point 1, on front of left longitudinal member
672	Earth point 2, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness
*	applicable up to October 2006
**	applicable from November 2006

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sw	=	black
ro	=	red
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gn	=	green
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2.0 L - Motronic/147 kW, engine codes AXX, BPY, BWA

From May 2006

Notes:

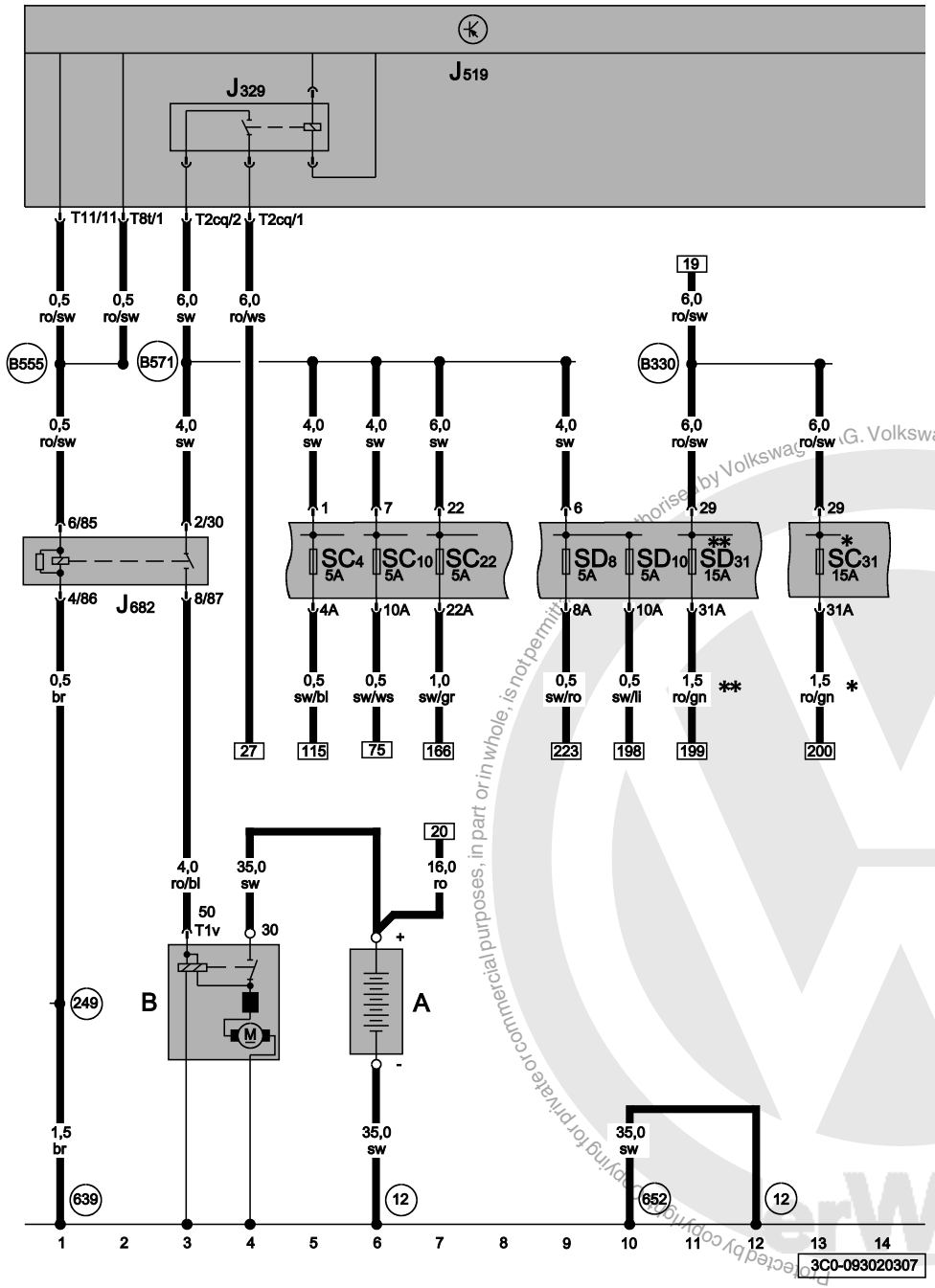
For information about
- Relay and fuse assignments
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information about
- Fault Finding Programs

⇒ Guided Fault Finding

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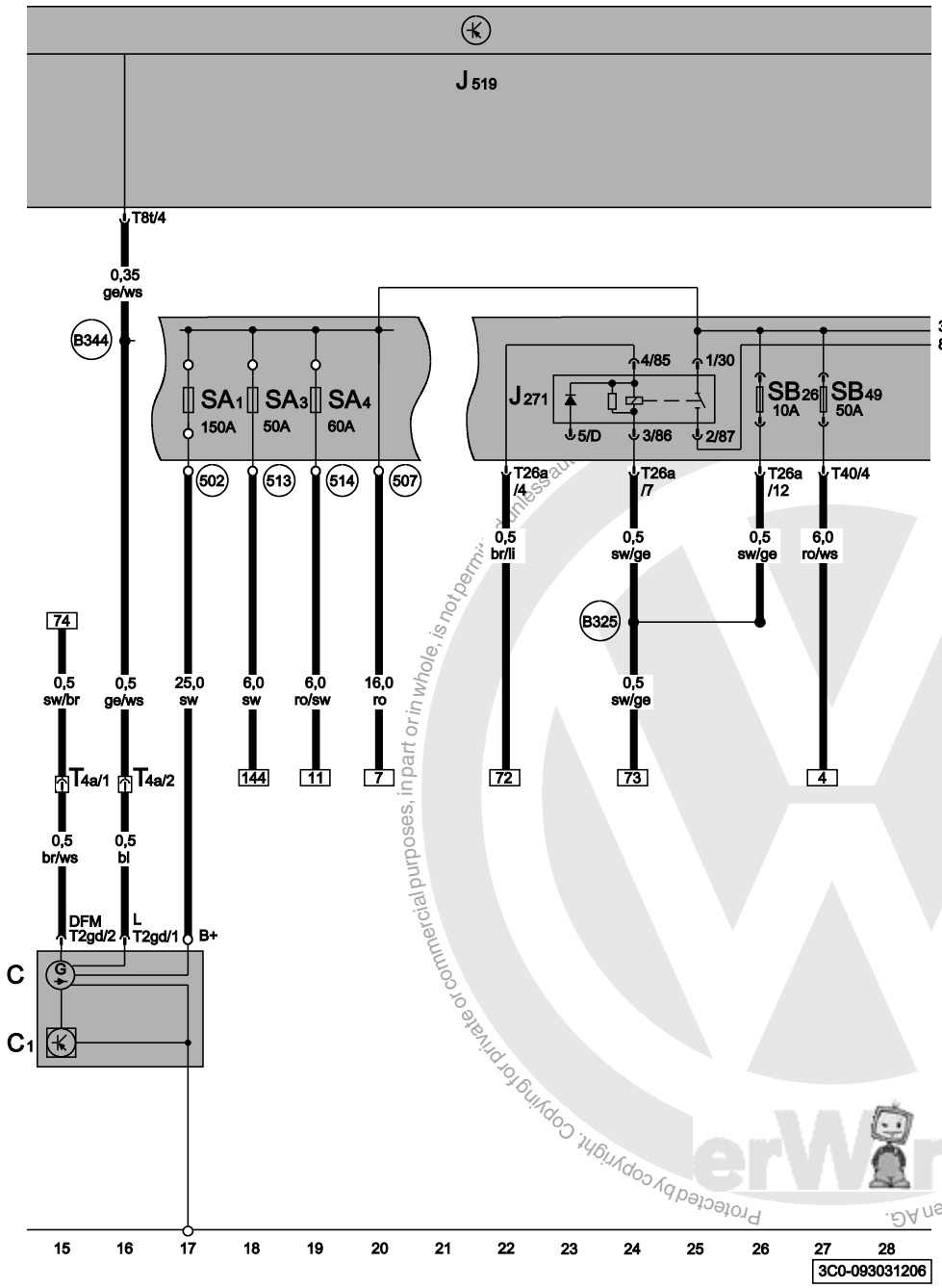


Battery, starter, relay for voltage supply of term. 15, relay for voltage supply of term. 50, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
J329	Relay for voltage supply of term. 15
J682	Relay for voltage supply of term. 50, on relay carrier under left of dash panel (433)
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
SD10	Fuse 10 on fuse holder D
SD31	Fuse 31 on fuse holder D
T1v	1-pin connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B330	Positive connection 16 (30a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Valid from November 2006
**	Valid to October 2006

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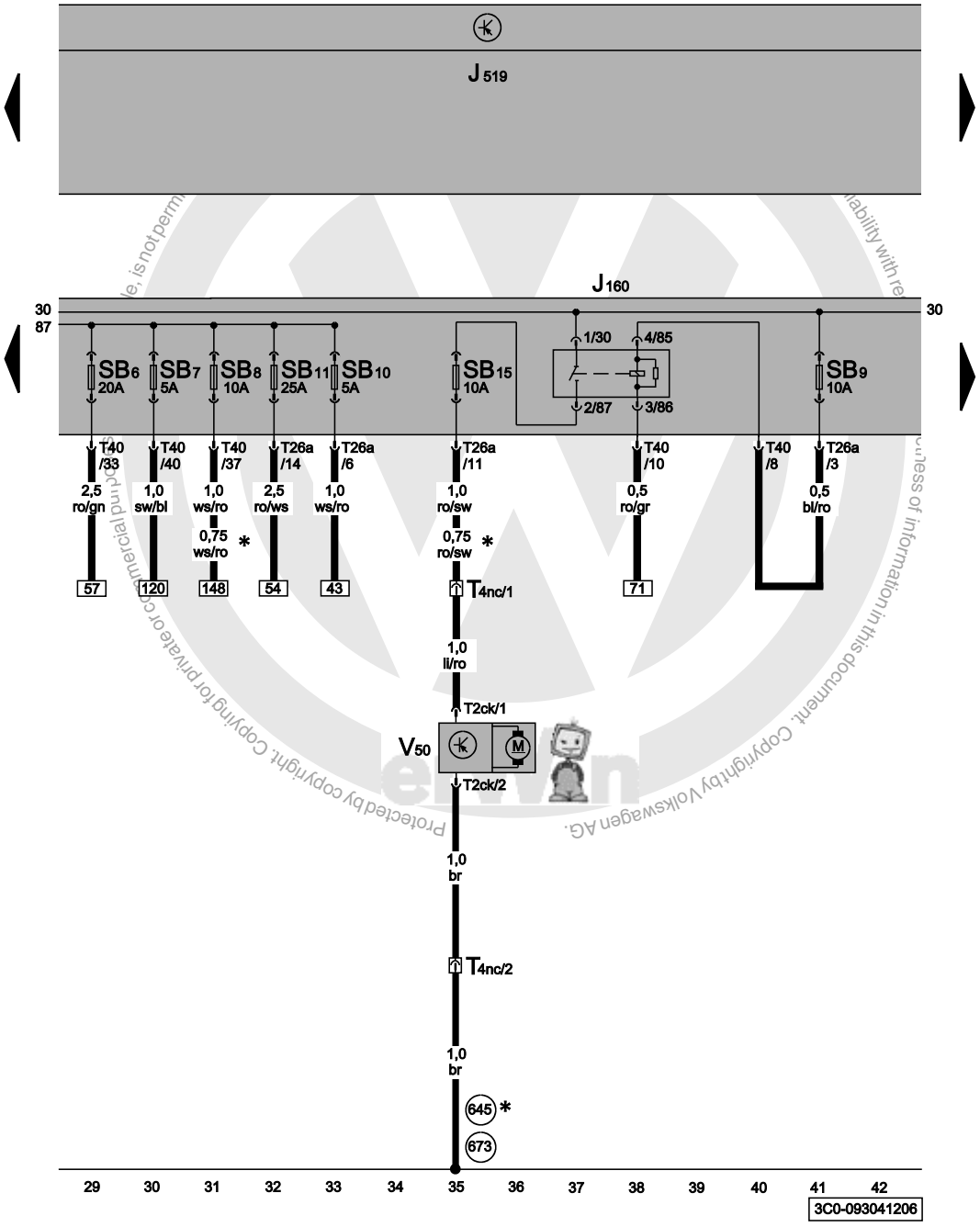


Alternator, current supply relay for Motronic, fuses SA and SB

C	Alternator
C1	Voltage regulator
J271	Current supply relay for Motronic, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SB26	Fuse 26 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T26a	26-pin connector, on E-box
T40	40-pin connector, on E-box
502	Threaded connection 1 (30a), on relay plate
507	Threaded connection (30), on fuse holder on battery
513	Threaded connection 3 (30a), on relay plate
514	Threaded connection 4 (30a), on relay plate
B325	Positive connection 11 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness

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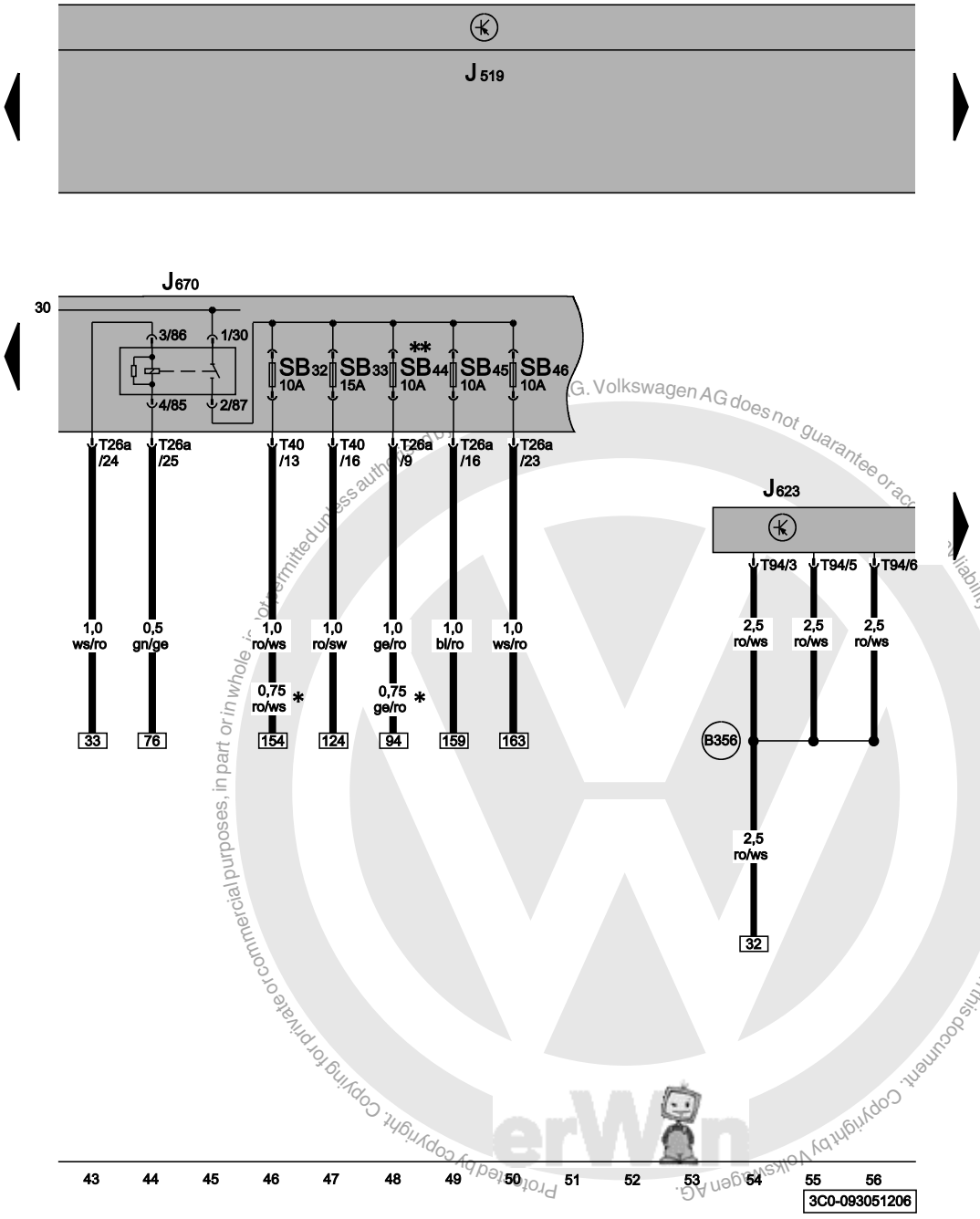


Circulation pump relay, SB fuses, circulation pump

J160	Circulation pump relay
J519	Onboard supply control unit
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB8	Fuse 8 on fuse holder B
SB9	Fuse 9 on fuse holder B
SB10	Fuse 10 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB15	Fuse 15 on fuse holder B
T2ck	2-pin connector
T4nc	4-pin connector
T26a	26-pin connector
T40	40-pin connector
V50	Coolant circulation pump
645	Earth point 1, on bulkhead
673	Earth point 3, on longitudinal member front left
*	Valid from November 2006

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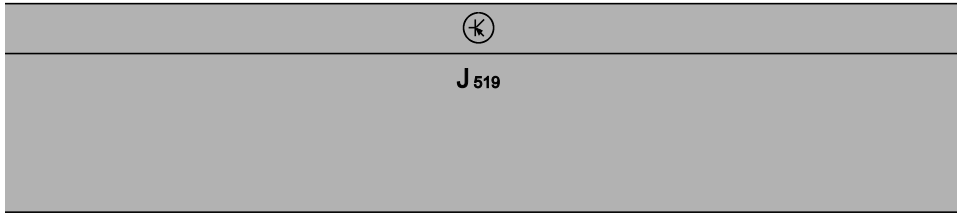


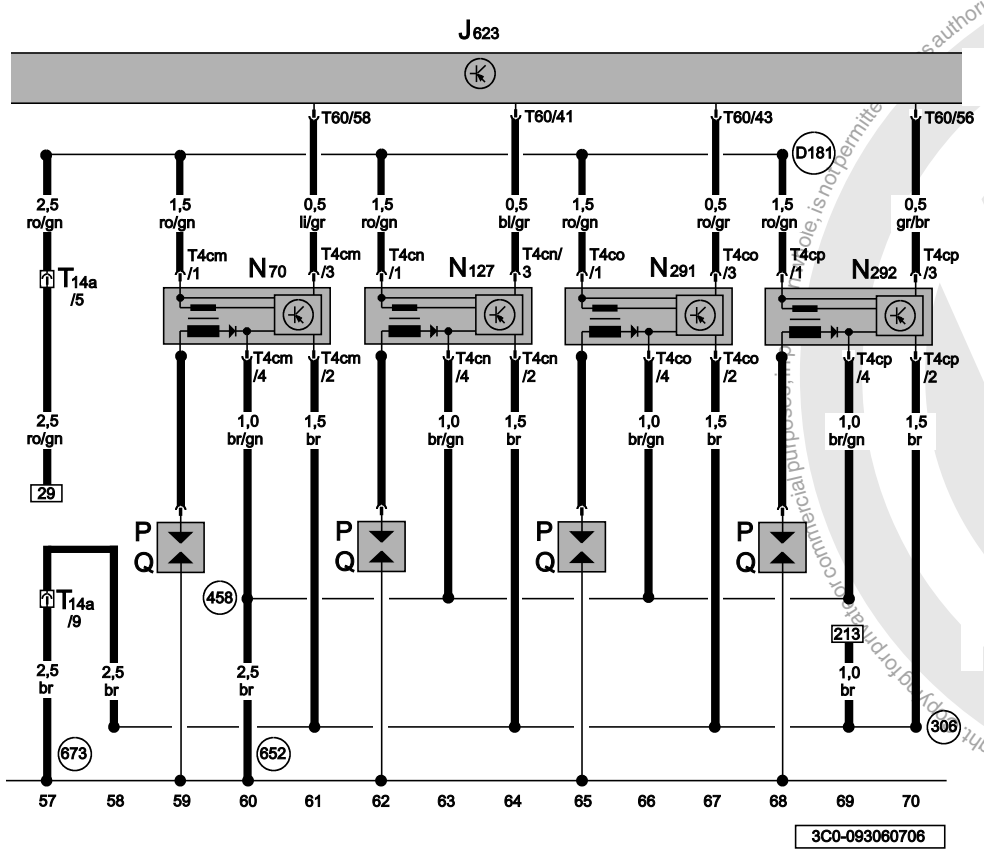
Engine control unit, Motronic current supply relay 2, fuses SB

J519	Onboard supply control unit
J623	Engine control unit
J670	Motronic current supply relay 2
SB32	Fuse 32 on fuse holder B
SB33	Fuse 33 on fuse holder B
SB44	Fuse 44 on fuse holder B
SB45	Fuse 45 on fuse holder B
SB46	Fuse 46 on fuse holder B
T26a	26-pin connector, on E-box
T40	40-pin connector, on E-box
T94	40-pin connector, on E-box
B356	Positive connection 7 (87a), in main wiring harness
*	Valid from November 2006
**	Only for American markets

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Engine control unit, ignition coils 1-4 with output stage, spark plugs, spark plug connectors

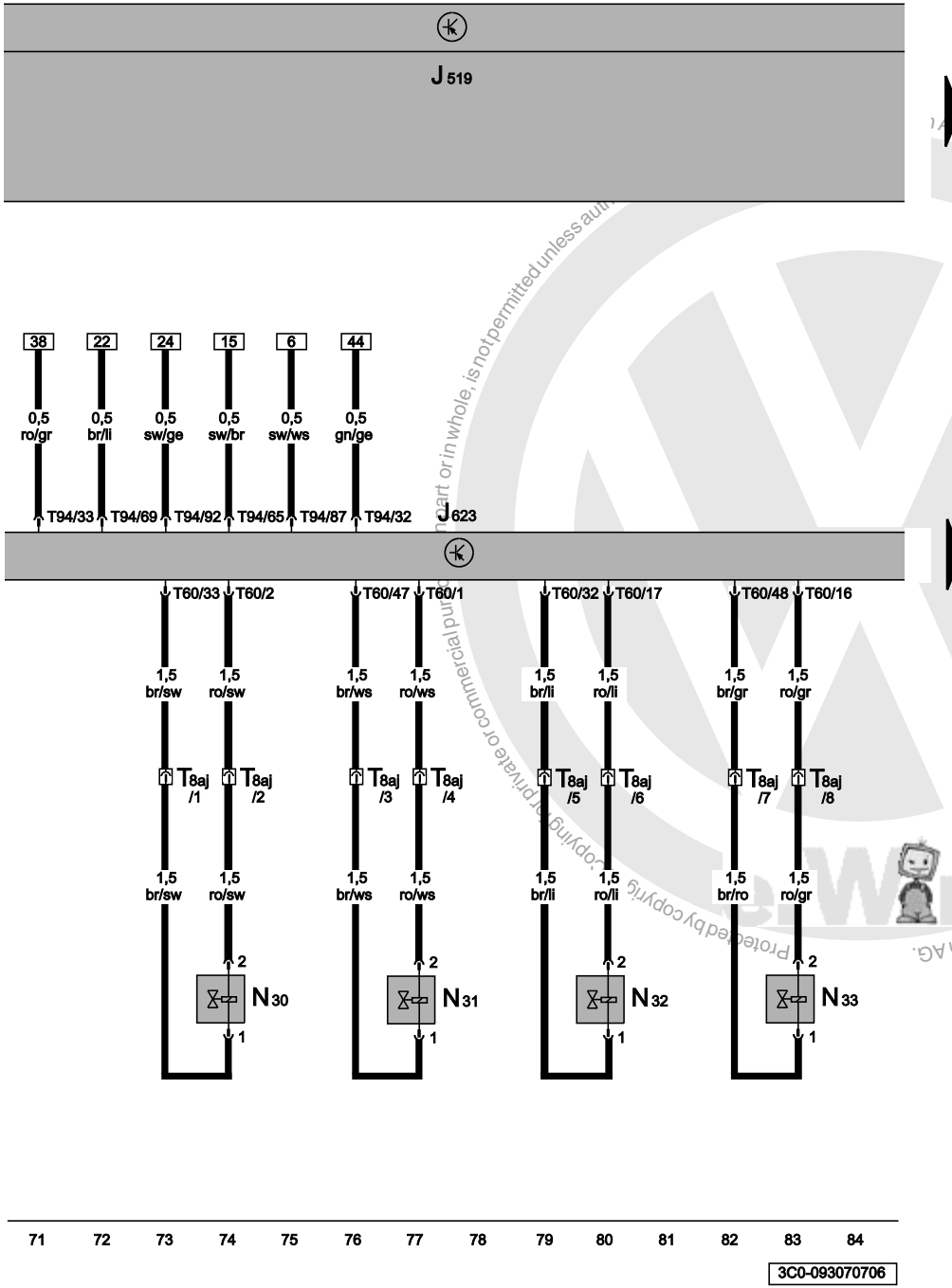
J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4cm	4-pin connector, black
T4cn	4-pin connector
T4co	4-pin connector
T4cp	4-pin connector
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T60	60-pin connector
(306)	Earth connection (ignition coils), in engine prewiring harness
(458)	Earth point 3, in engine prewiring harness
(652)	Earth point, engine and gearbox earth
(673)	Earth point 3, on longitudinal member front left
(D181)	Connection 2 (87a), in engine compartment wiring harness

ws	=	white
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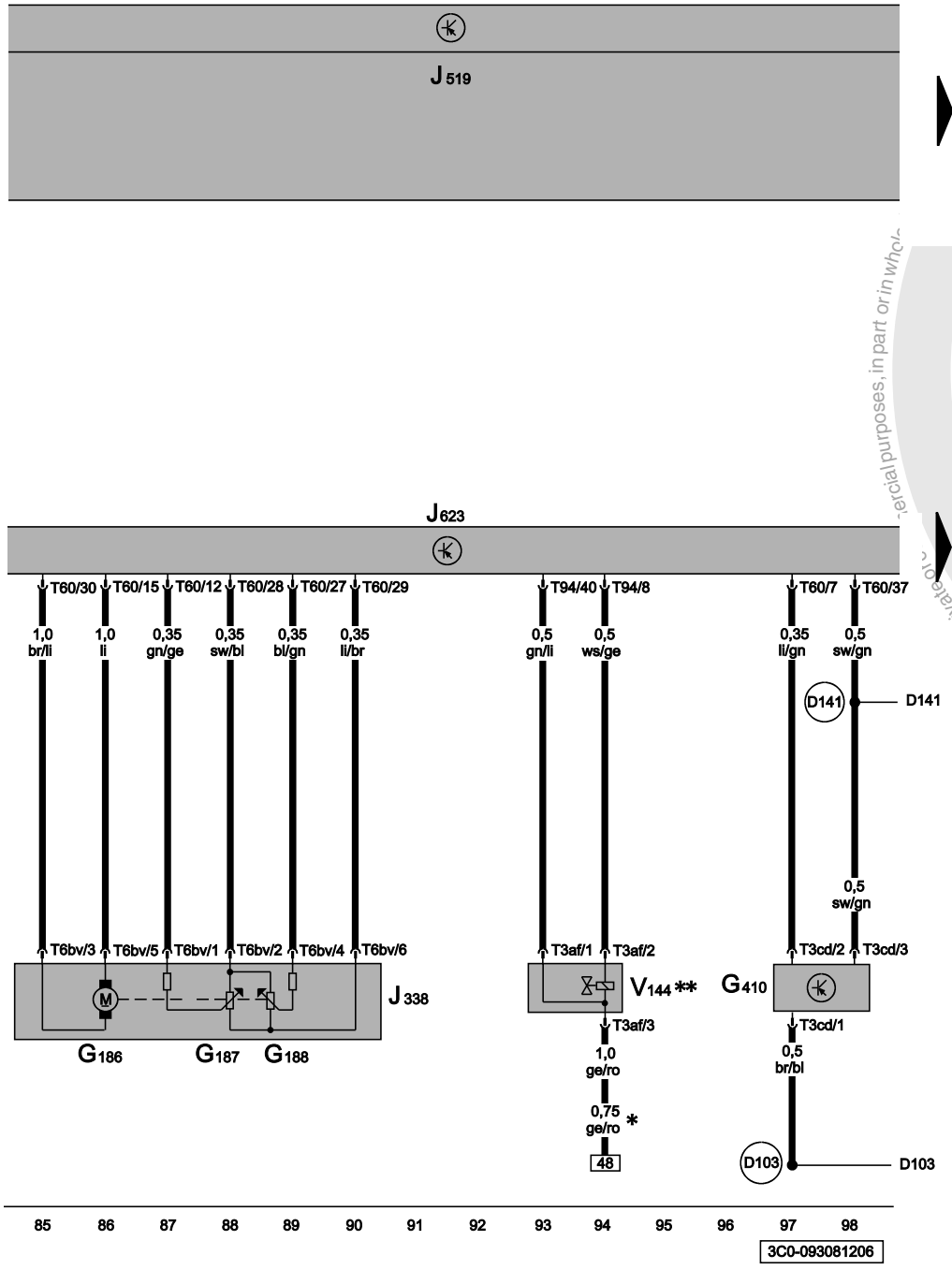
Engine control unit, injectors for cylinders 1-4

J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8aj	8-pin connector, black, near cylinder head
T60	60-pin connector
T94	94-pin connector



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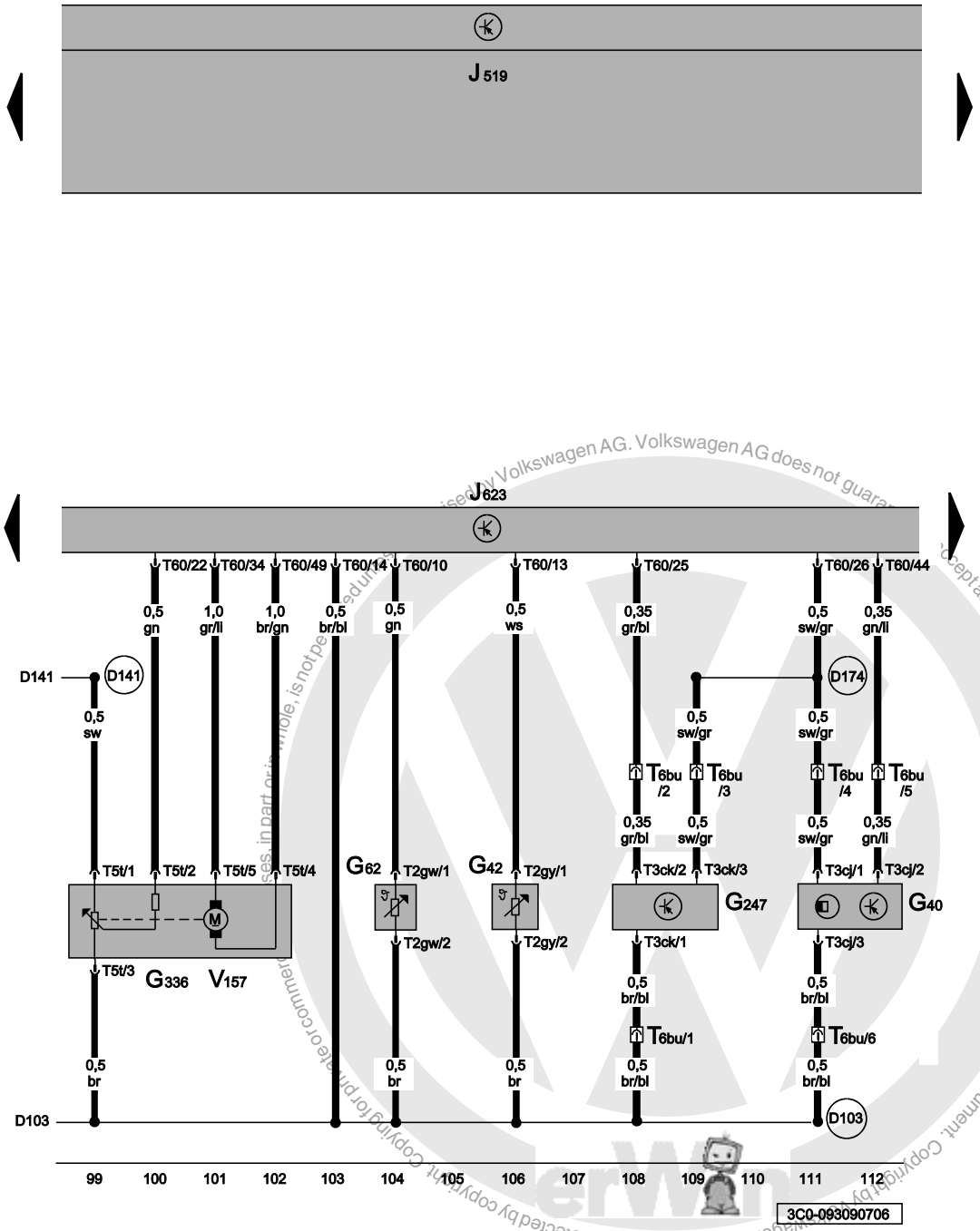


Engine control unit, throttle valve module, fuel pressure sender for low pressure

G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
G410	Fuel pressure sender for low pressure
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
T3af	3-pin connector
T3cd	3-pin connector
T6bv	6-pin connector
T60	60-pin connector
T94	94-pin connector
V144	Fuel system diagnosis pump
D103	Connection 3, in engine compartment wiring harness
D141	Connection (5V), in engine prewiring harness
*	Valid from November 2006
**	Only for American markets

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sw	=	black
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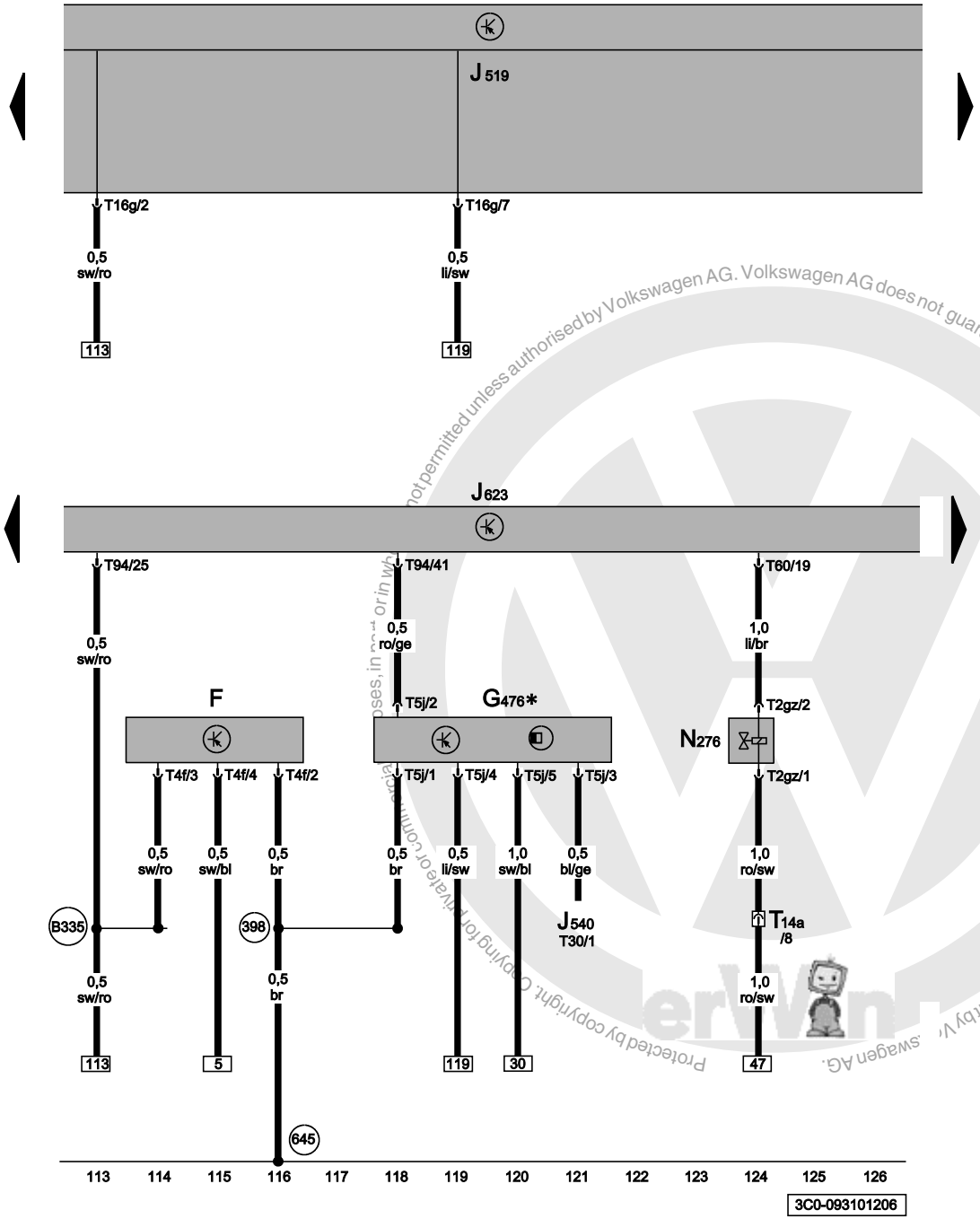


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Engine control unit, intake air temperature sender, fuel pressure sender, coolant temperature sender, intake manifold flap potentiometer

G40	Hall sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G247	Fuel pressure sender
G336	Intake manifold flap potentiometer
J519	Onboard supply control unit
J623	Engine control unit
T2gy	2-pin connector
T2gw	2-pin connector, black
T3cj	3-pin connector
T3ck	3-pin connector
T5t	5-pin connector
T6bu	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor
D103	Connection 3, in engine compartment wiring harness
D141	Connection (5V), in engine prewiring harness
D174	Connection 2 (5V), in engine prewiring harness

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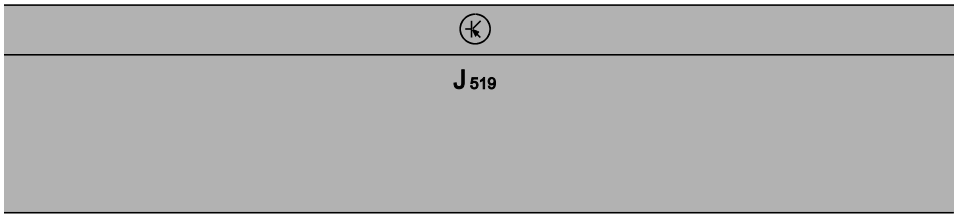


Engine control unit, fuel pressure regulating valve, clutch position sender, brake light switch

F	Brake light switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
N276	Fuel pressure regulating valve
T2gz	2-pin connector, blue
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T16g	16-pin connector
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
*	Only on vehicles with manual gearbox

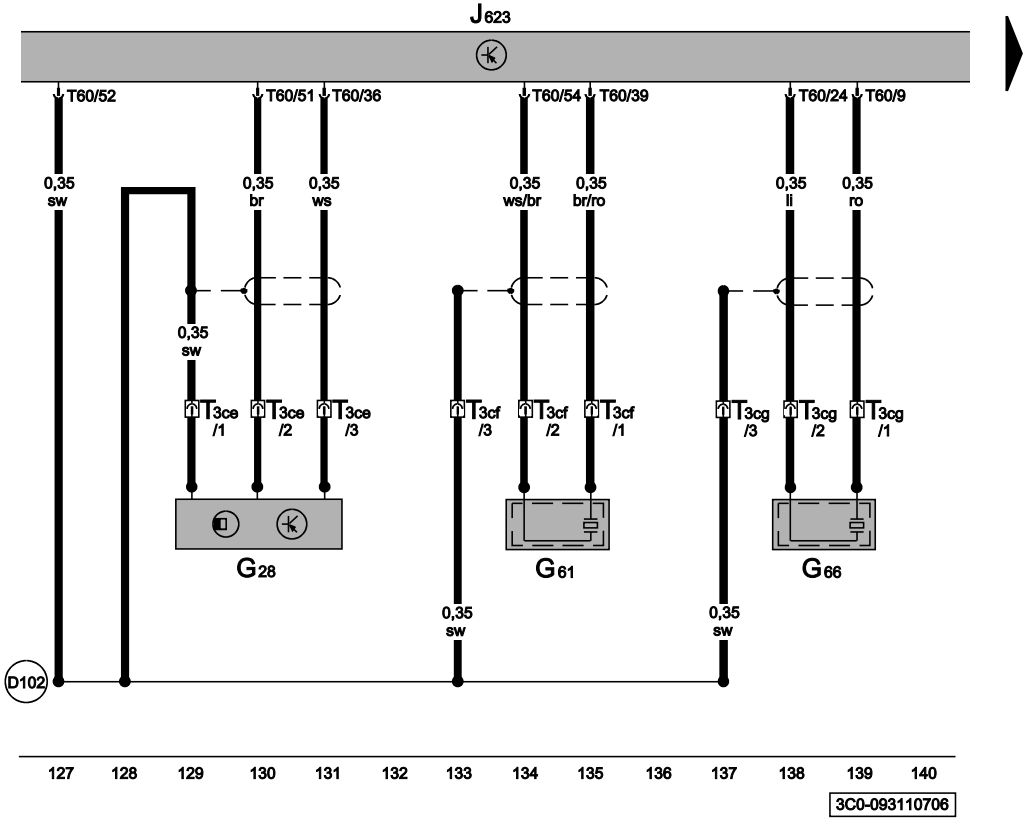
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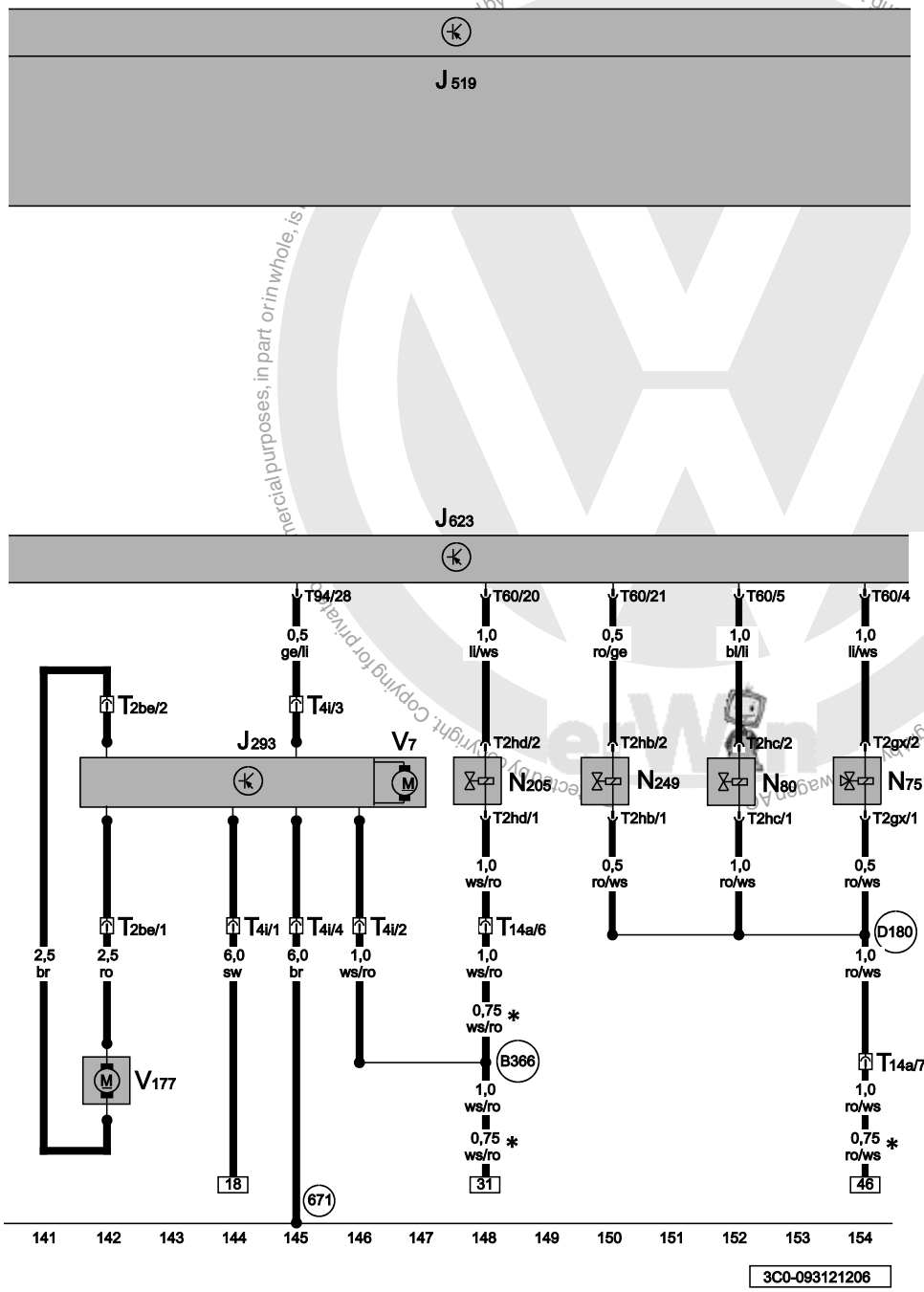
Engine control unit, engine speed sender, knock sensors 1 and 2

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J519	Onboard supply control unit
J623	Engine control unit
T3ce	3-pin connector, grey
T3cf	3-pin connector, green
T3cg	3-pin connector, brown
T60	60-pin connector
D102	Connection 2, in engine compartment wiring harness



ws = white
sw = black
ro = red
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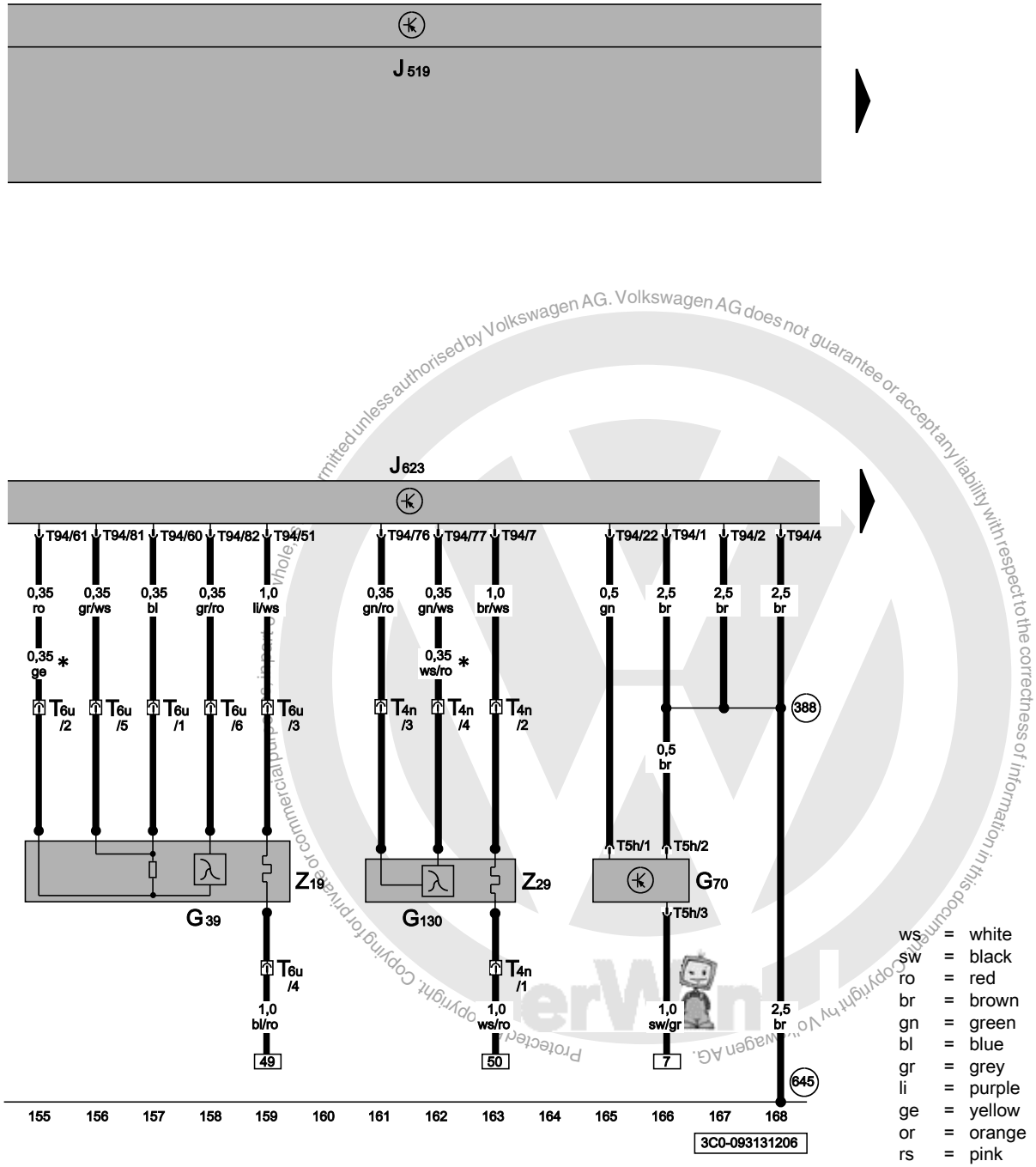
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Engine control unit, radiator fan control unit, active charcoal filter system solenoid valve 1, inlet camshaft control valve 1

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N80	Activate charcoal filter solenoid valve 1
N205	Inlet camshaft control valve 1
N249	Turbocharger air recirculation valve
T2be	2-pin connector, on lock carrier
T2hb	2-pin connector, brown
T2hc	2-pin connector, black
T2hd	2-pin connector, black
T2gx	2-pin connector, black
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on longitudinal member front left
B366	Positive connection 17 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness
*	Valid from November 2006

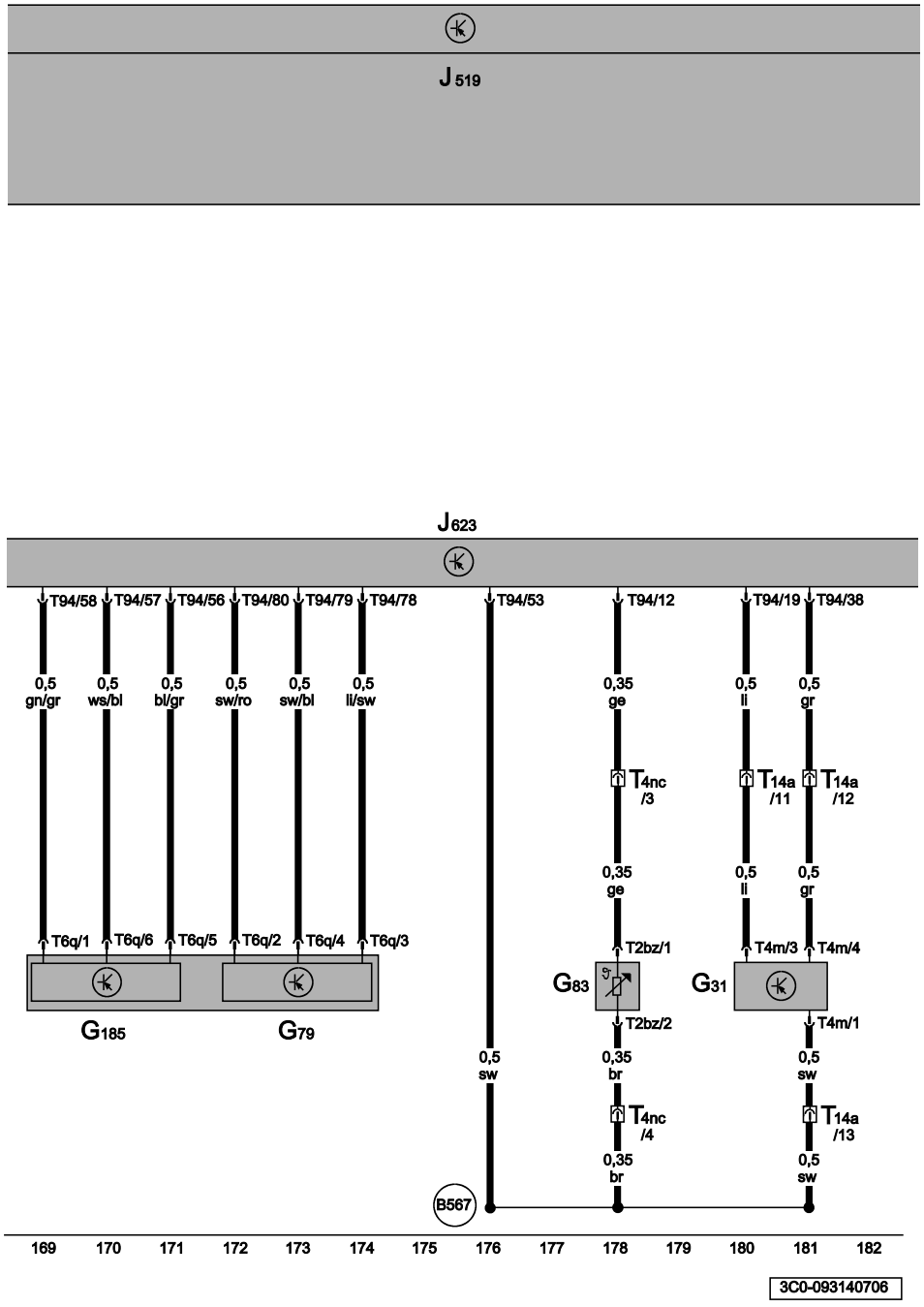


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Engine control unit, air mass meter, lambda probe, lambda probe after catalytic converter

G39	Lambda probe
G70	Air mass meter
G130	Lambda probe after catalytic converter
J519	Onboard supply control unit
J623	Engine control unit
T4n	4-pin connector, coupling point, lambda probe
T5h	5-pin connector
T6u	6-pin connector, black, coupling point, lambda probe
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
(388)	Earth connection 23, in main wiring harness
(645)	Earth point 1, on bulkhead
*	Valid from November 2006

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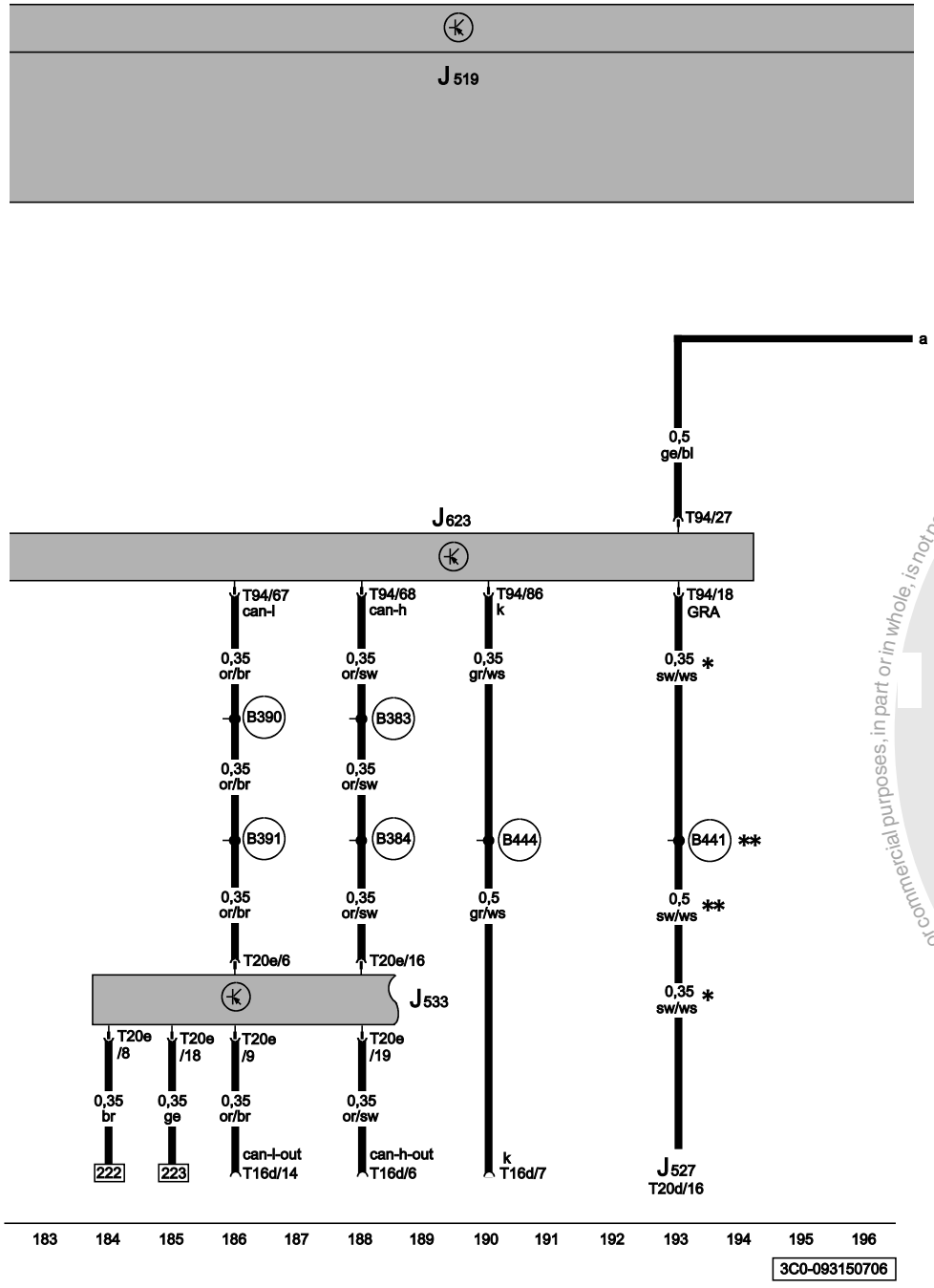


Engine control unit, accelerator position sender, charge pressure sender, radiator outlet coolant temperature sender

G31	Charge air pressure sender
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector
T4m	4-pin connector, black
T4nc	4-pin connector, black
T6q	6-pin connector
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T94	94-pin connector
B567	Connection 34, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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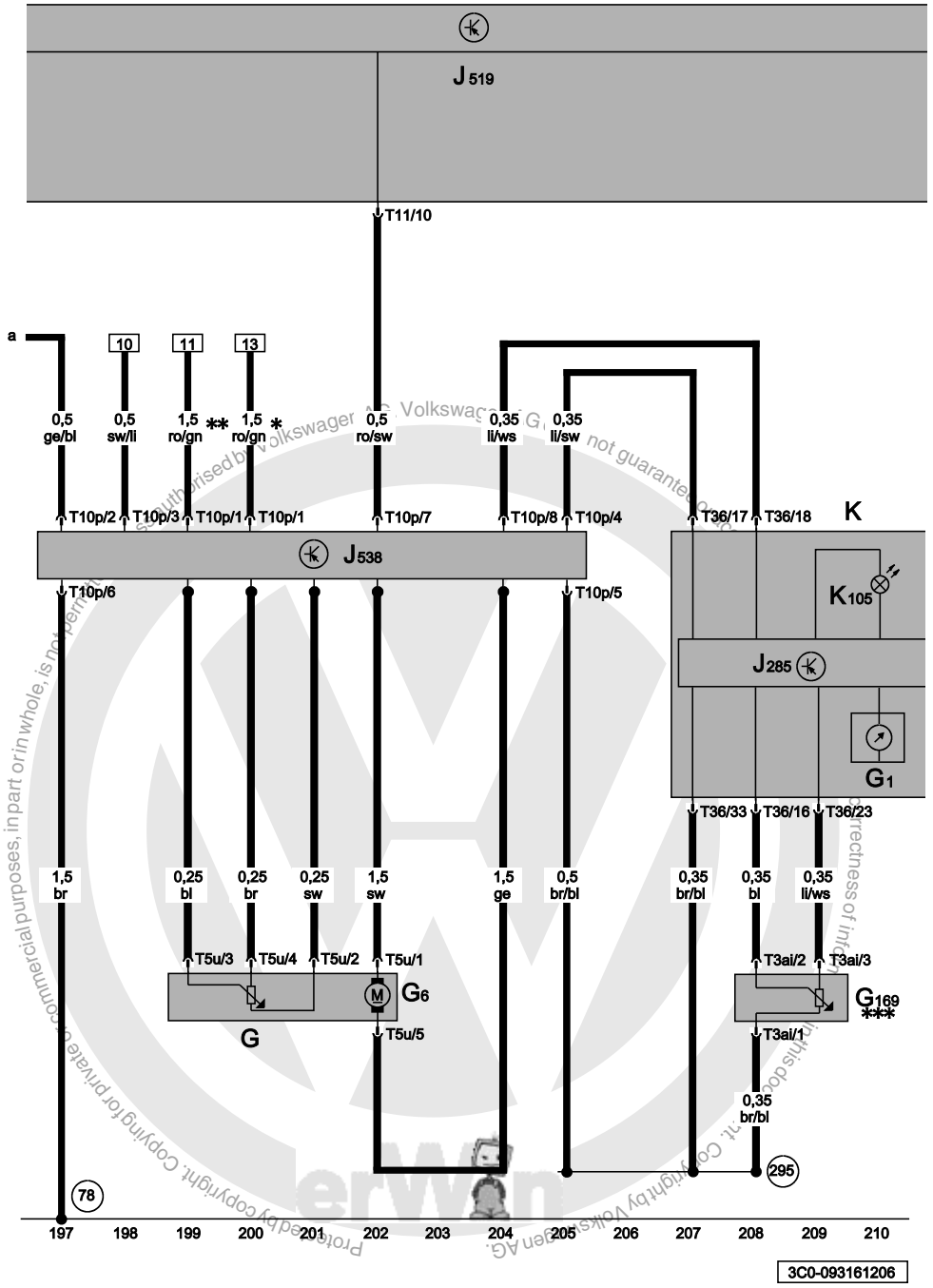


Engine control unit, data bus diagnosis interface, self-diagnosis connection

J519	Onboard supply control unit
J527	Control unit for steering column electronics
J533	Data bus diagnosis interface
J623	Engine control unit
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T20d	20-pin connector
T94	94-pin connector
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	Only on vehicles with CCS
**	Only on vehicles with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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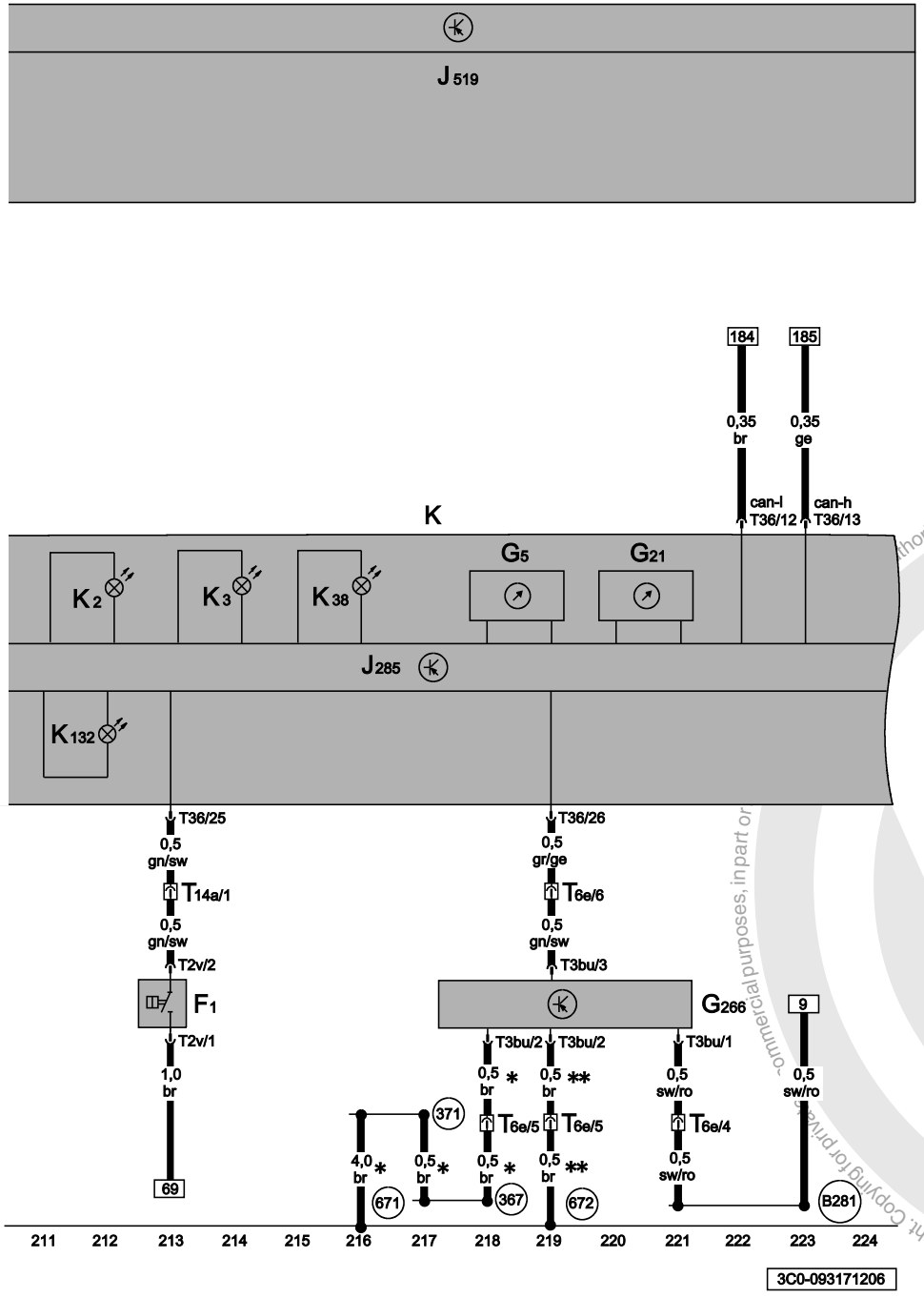


Fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G6	Fuel system pressurisation pump
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J538	Fuel pump control unit
K	Dash panel insert
K105	Reserve fuel warning lamp
T3ai	3-pin connector
T5u	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Valid from November 2006
**	Valid to October 2006
***	Only on vehicles with four-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender, rev. counter, speedometer

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K38	Oil level warning lamp
K132	Malfunction indicator lamp for electronic power control
T2v	2-pin connector, black, in engine compartment
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point, electric steering, in engine compartment
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T36	36-pin connector
367	Earth point 2 in main wiring harness
371	Earth point 6 in main wiring harness
671	Earth point 1, on longitudinal member front left
672	Earth point 2, on longitudinal member front left
B281	Positive connection 5 (15a), in main wiring harness
*	Valid from November 2006
**	Valid to October 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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1.6 l/75 kW Motronic, engine code BSE, BSF

From May 2006

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Notes:

For information concerning

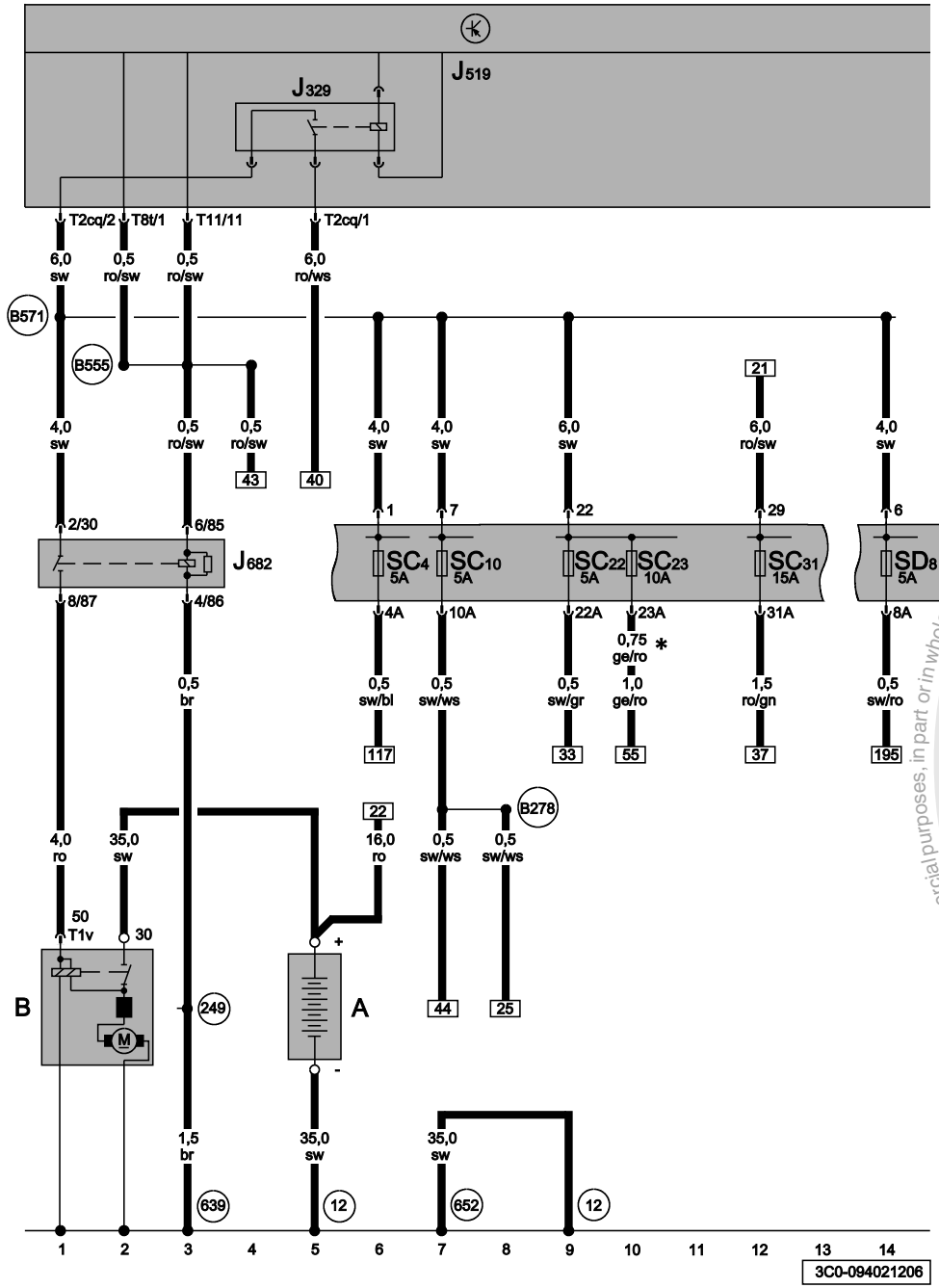
- Position of relays and fuses
- Connectors
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

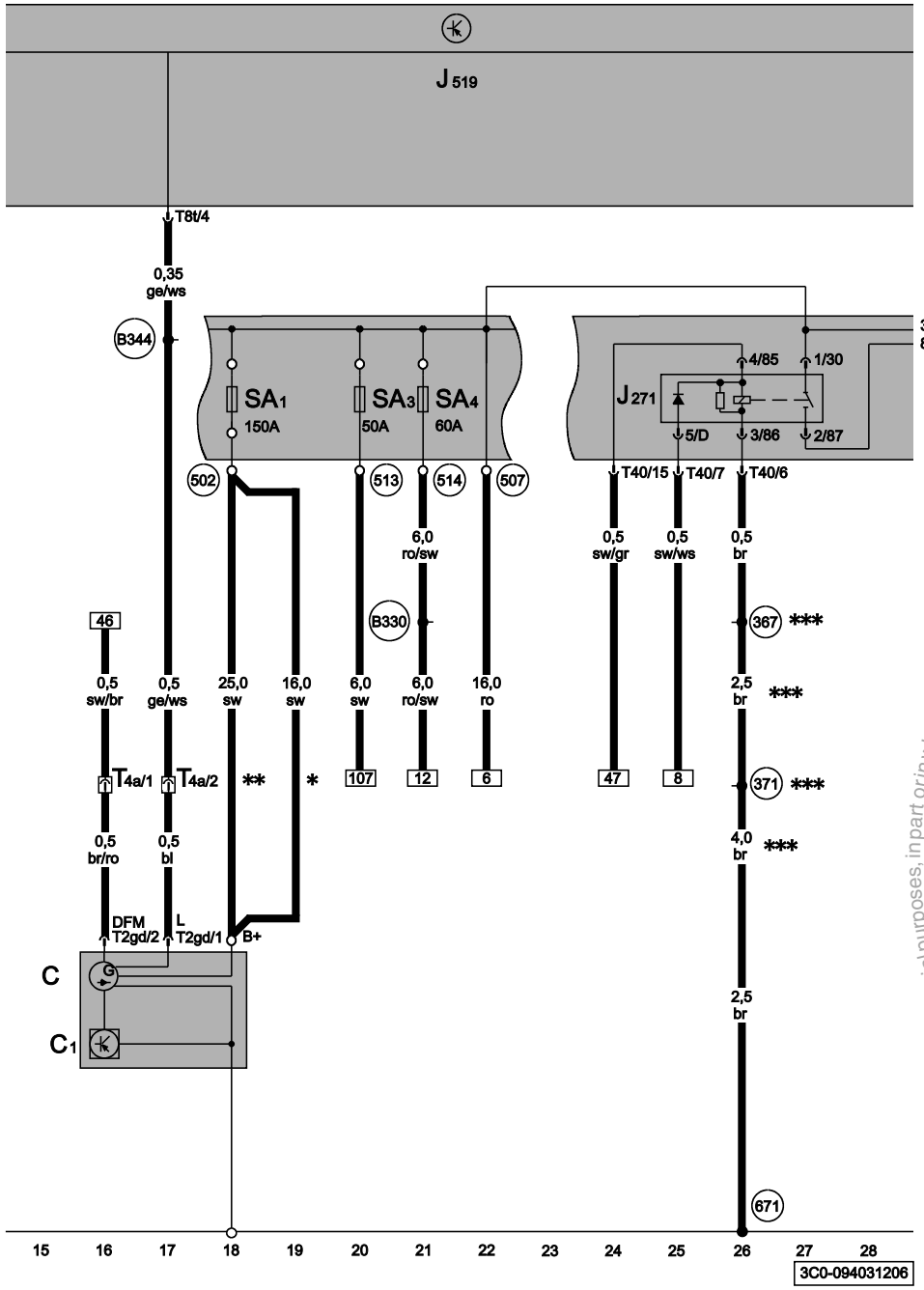


Battery, starter, terminal 15 voltage supply relay 2, terminal 50 voltage supply relay 2, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
J329	Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B278	Connection 2 (15a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38 in main wiring harness
*	applicable from November 2006

ws	=	white
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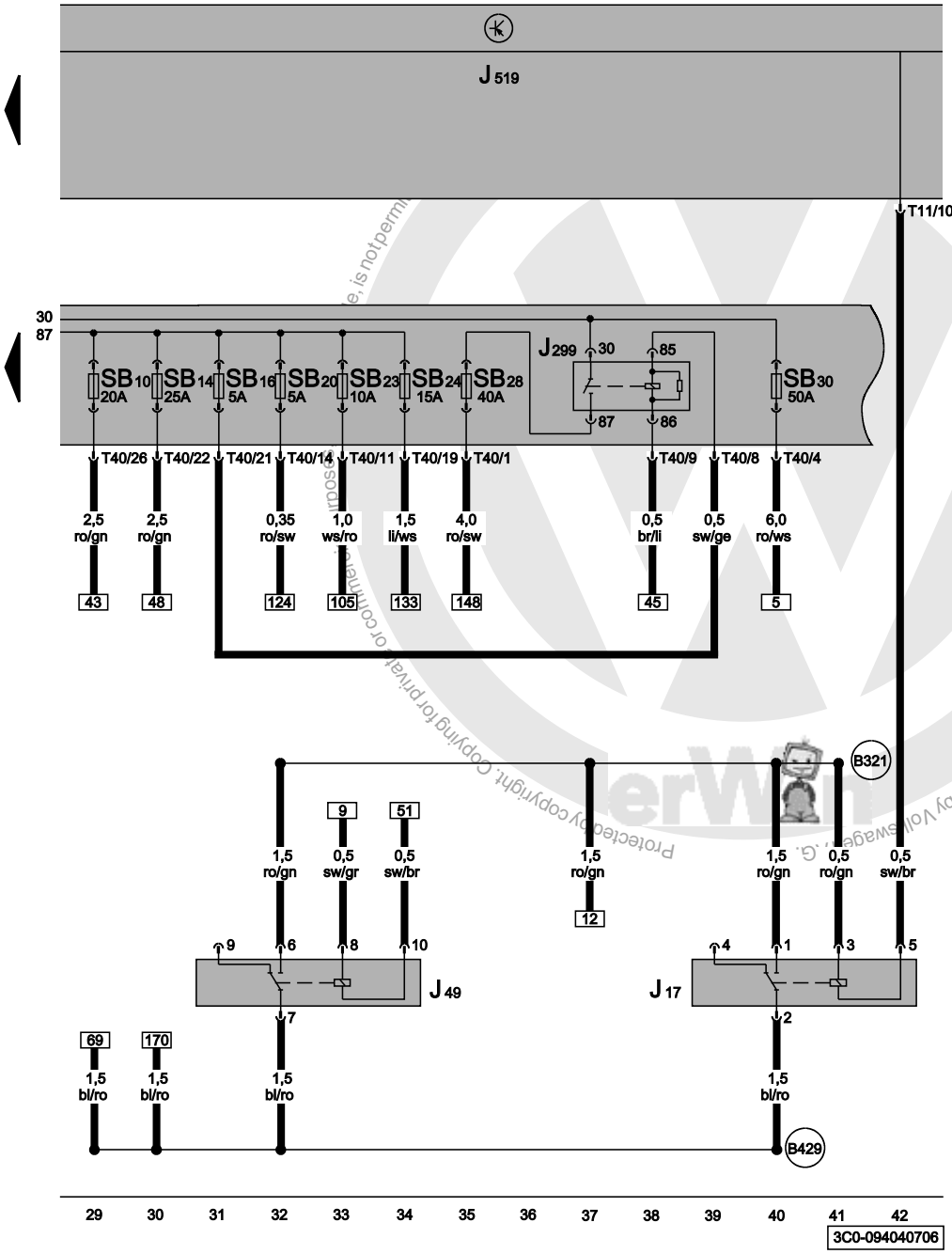


Alternator, Motronic current supply relay, fuses SA

C	Alternator
C1	Voltage regulator
J271	Motronic current supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on fuse holder on battery
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
671	Earth point 1, on front of left longitudinal member
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 110 A alternator
**	Only models with 140 A alternator
***	applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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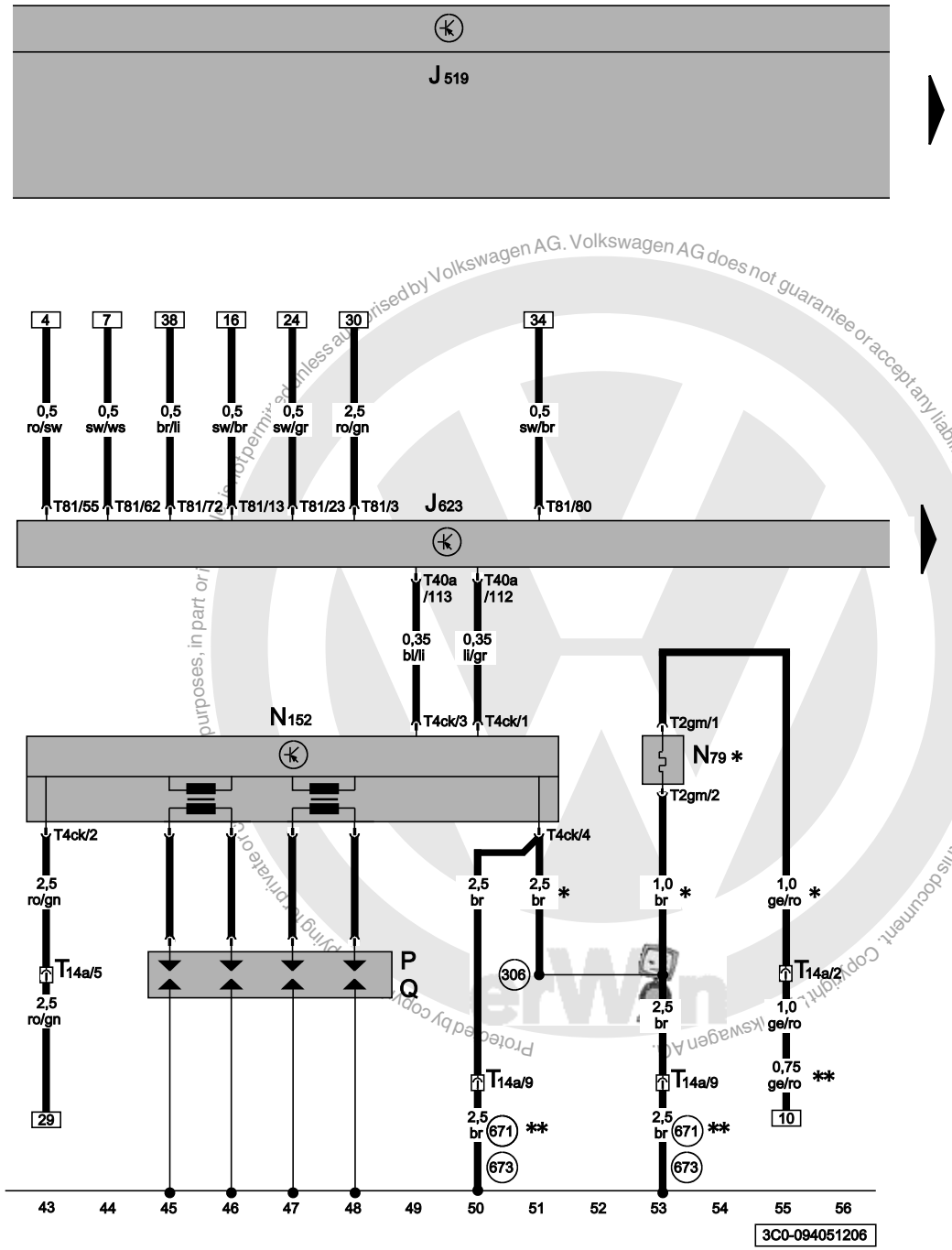


Fuel pump relay, secondary air pump relay, SB-fuses

J17	Fuel pump relay, on relay carrier under dash panel on left (404)
J49	Electric fuel pump 2 relay, on relay carrier under left dash panel (404)
J299	Secondary air pump relay, on E-box, on left in engine compartment (100)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B321	Connection 7 (30a), in main wiring harness
B429	Connection (EFPR), in main wiring harness

ws	=	white
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ro	=	red
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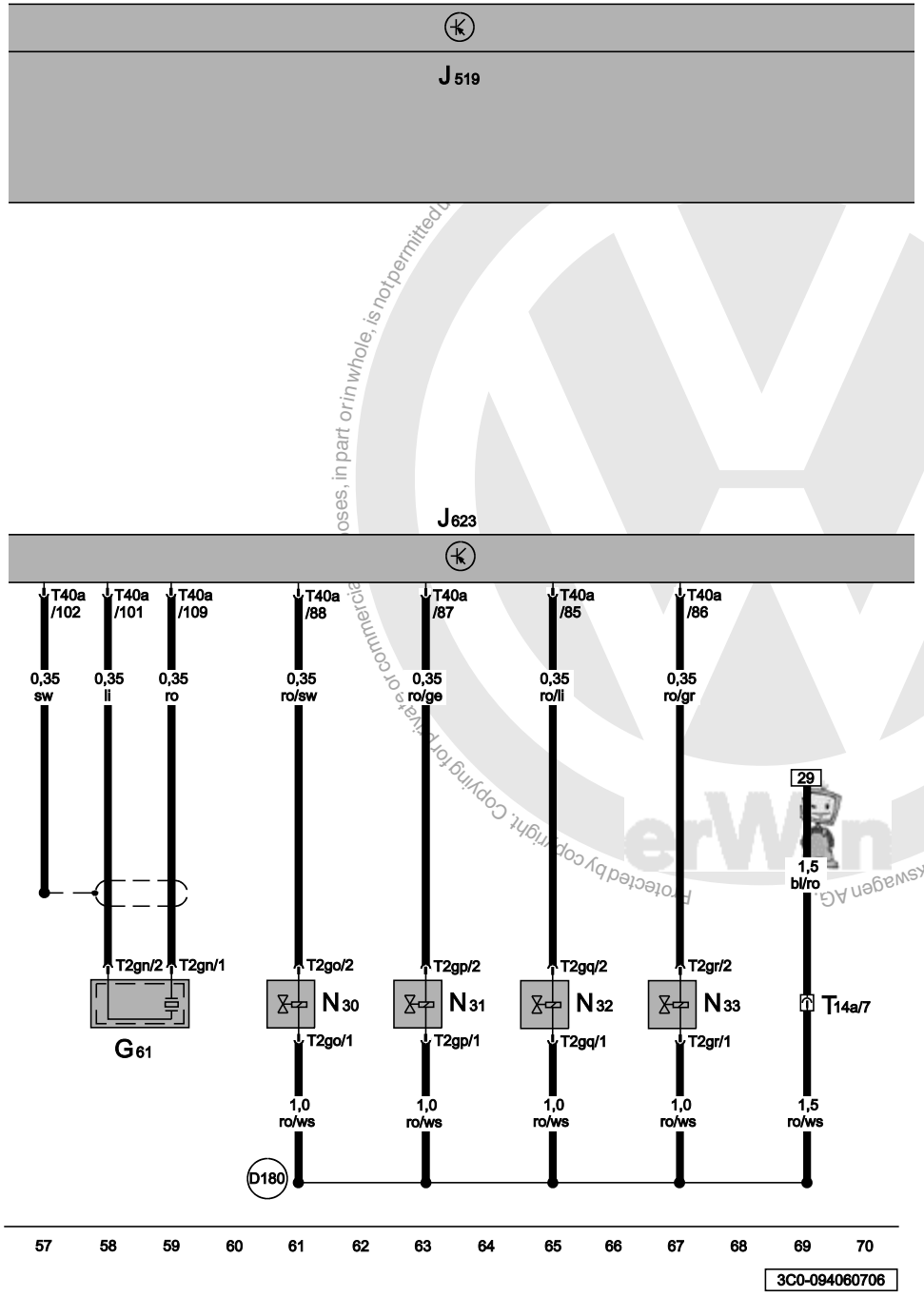


Engine control unit, ignition transformer, spark plugs, spark plug connectors, heater element for crankcase breather

J519	Onboard supply control unit
J623	Engine control unit
N79	Heater element for crankcase breather
N152	Ignition transformer
P	Spark plug connector
Q	Spark plug
T2gm	2-pin connector
T4ck	4-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40a	40-pin connector
T81	81-pin connector
(306)	Earth connection (ignition coils), in engine prewiring harness
(671)	Earth point 1, on front of left longitudinal member
(673)	Earth point 3, on front of left longitudinal member
*	models for cold countries only
**	applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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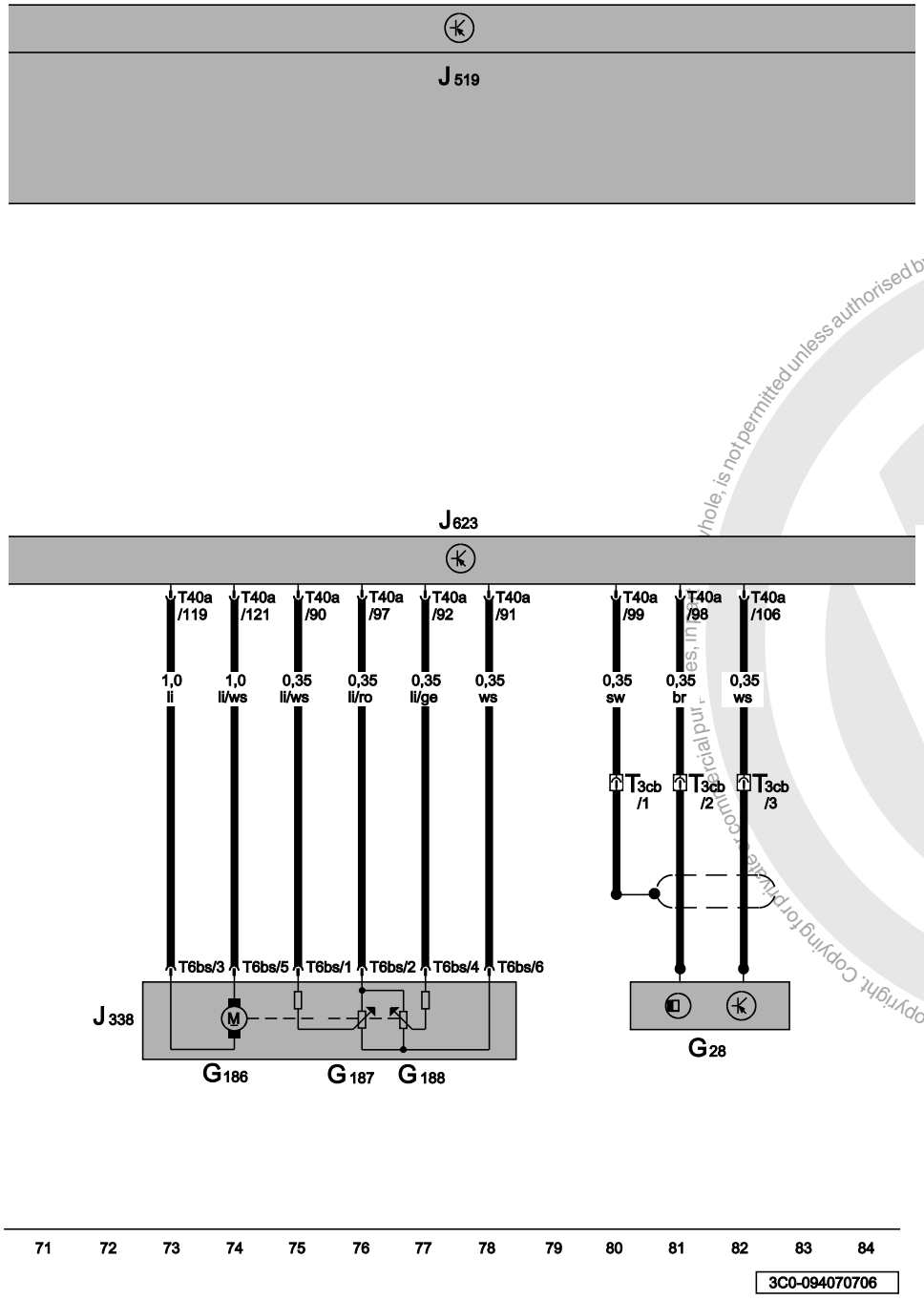


Engine control unit, knock sensor 1, injectors for cylinders 1 to 4

G61	Knock sensor 1
J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T2gn	2-pin connector
T2go	2-pin connector
T2gp	2-pin connector
T2gq	2-pin connector
T2gr	2-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40a	40-pin connector
(D180)	Connection (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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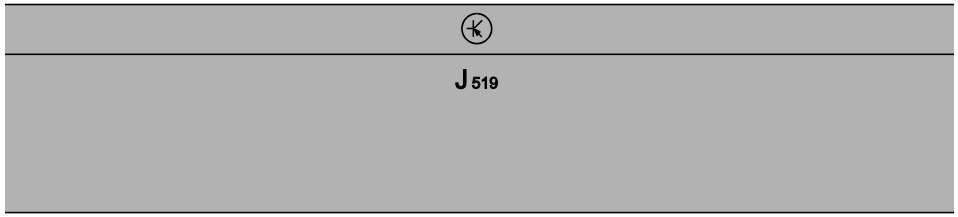


Engine control unit, throttle valve module, engine speed sender

G28	Engine speed sender
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
T3cb	3-pin connector, grey
T6bs	6-pin connector, black
T40a	40-pin connector

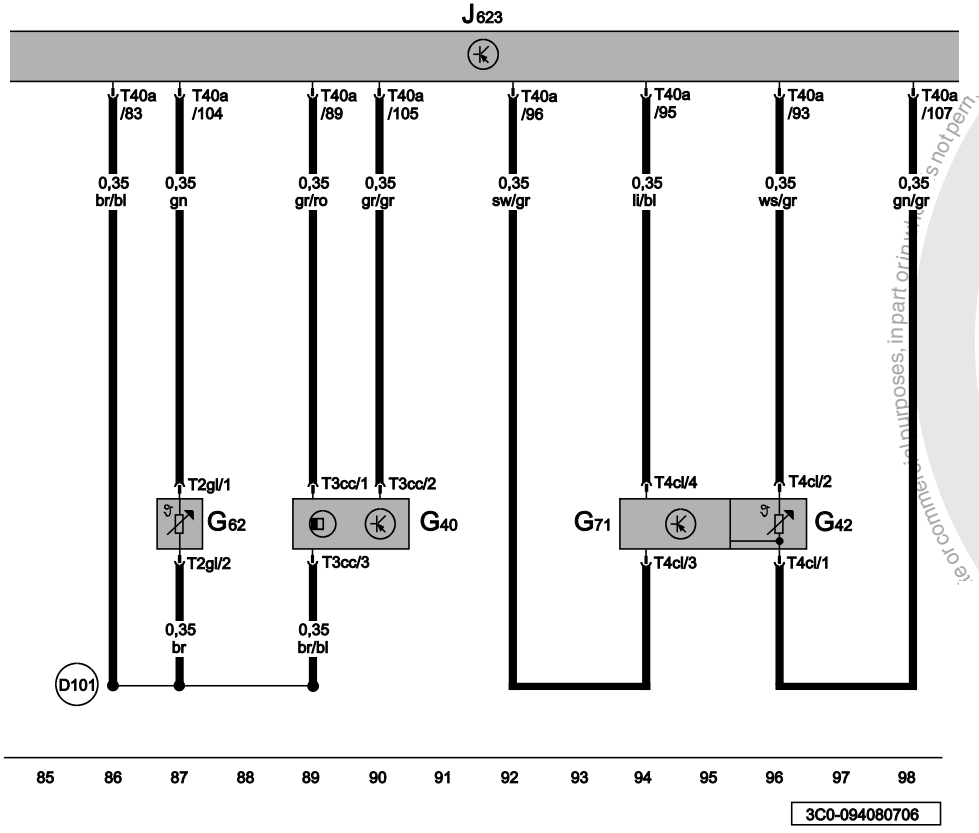
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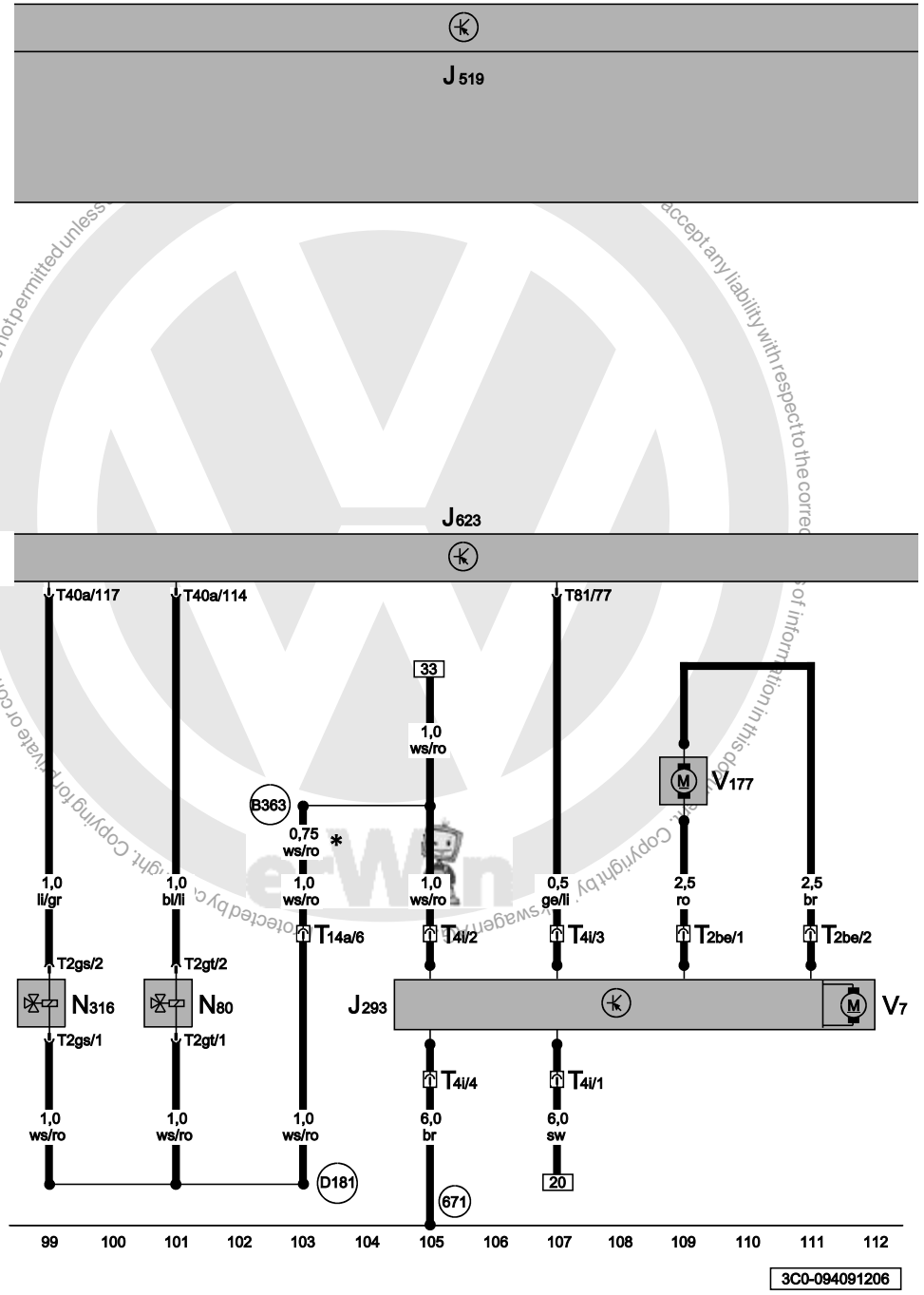
Engine control unit, Hall sender, intake manifold pressure sender

G40	Hall sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G71	Intake manifold pressure sender
J519	Onboard supply control unit
J623	Engine control unit
T2gl	2-pin connector
T3cc	3-pin connector
T4cl	4-pin connector
T40a	40-pin connector
D101	Connection 1, in engine compartment wiring harness



ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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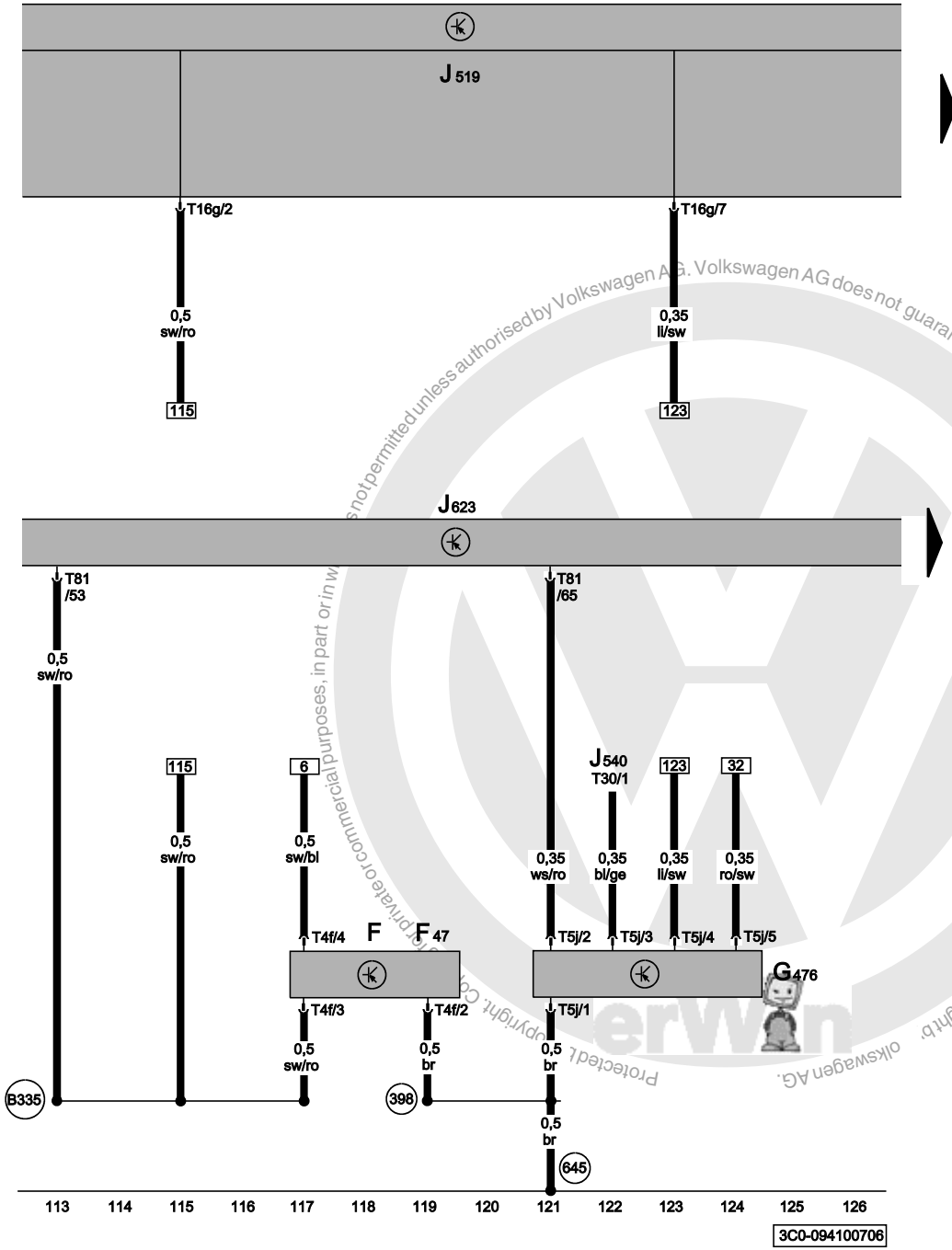


Engine control unit, radiator fan control unit, active charcoal filter system solenoid valve 1, intake manifold flap valve

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N80	Activated charcoal filter solenoid valve 1
N316	Intake manifold flap valve
T2be	2-pin connector, on lock carrier
T2gs	2-pin connector
T2gt	2-pin connector
T4i	4-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40a	40-pin connector
T81	81-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B363	Connection 14 (87a), in main wiring harness
D181	Connection 2 (87a), in engine compartment wiring harness
*	applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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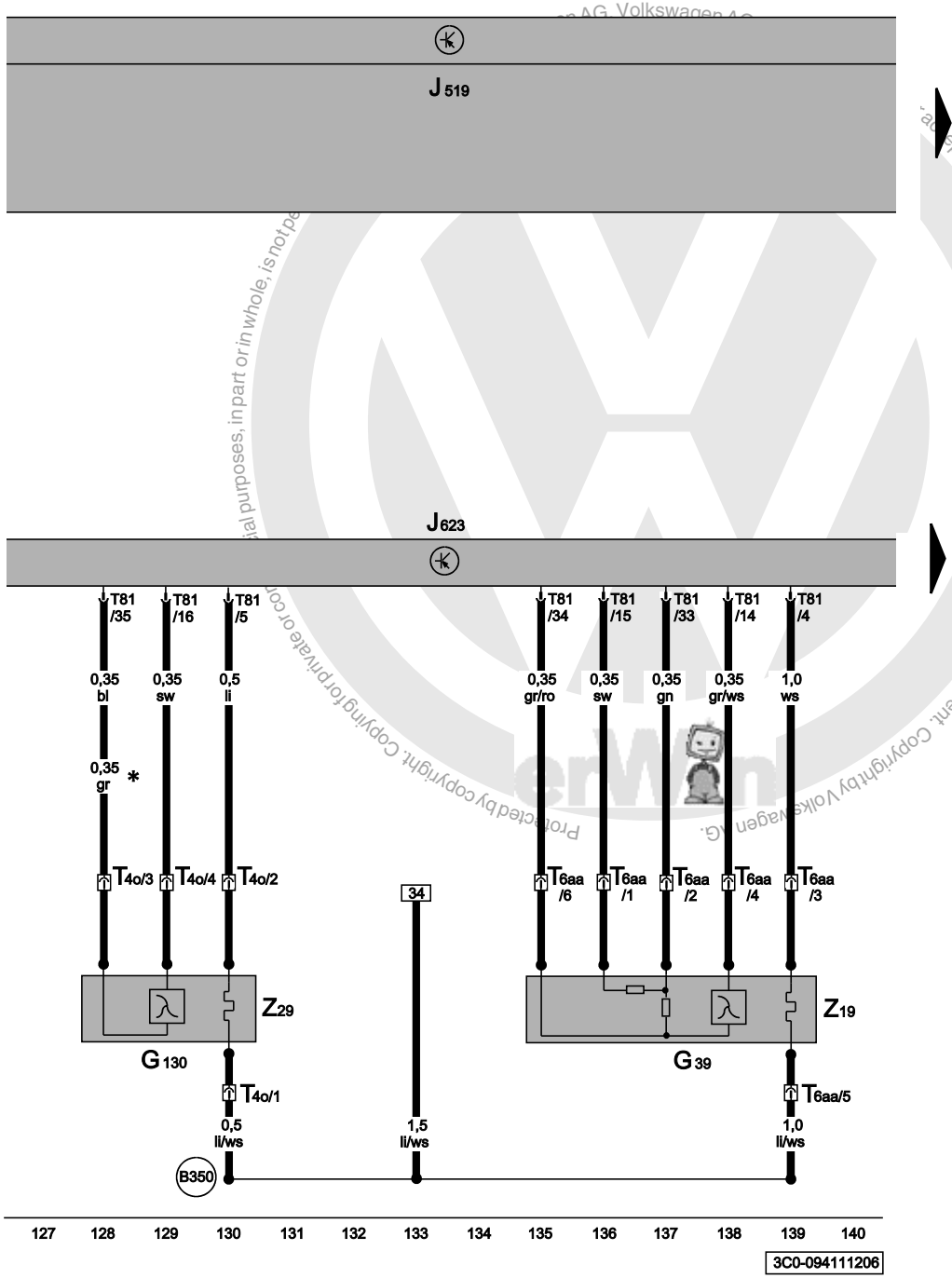


Engine control unit, brake light switch, brake pedal switch, clutch position sender

F	Brake light switch
F47	Brake pedal switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T30	30-pin connector
T81	81-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, bulkhead
B335	Connection 1 (54), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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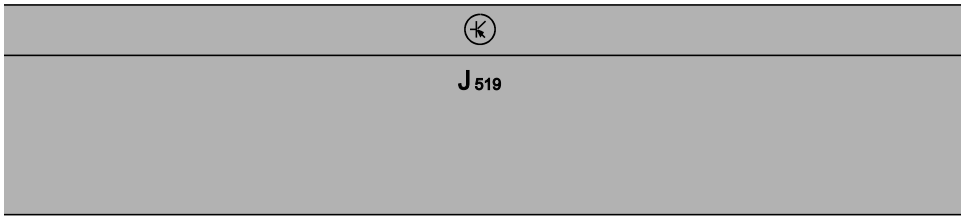


Engine control unit, lambda probe, lambda probe heater

G39	Lambda probe
G130	Lambda probe after catalytic converter
J519	Onboard supply control unit
J623	Engine control unit
T4o	4-pin connector, black, coupling point for lambda probe
T6aa	6-pin connector, black, coupling point for lambda probe
T81	81-pin connector
Z19	Lambda probe heater
Z29	Lambda probe heater 1, after catalytic converter
B350	Connection 1 (87a), in main wiring harness
*	applicable from November 2006

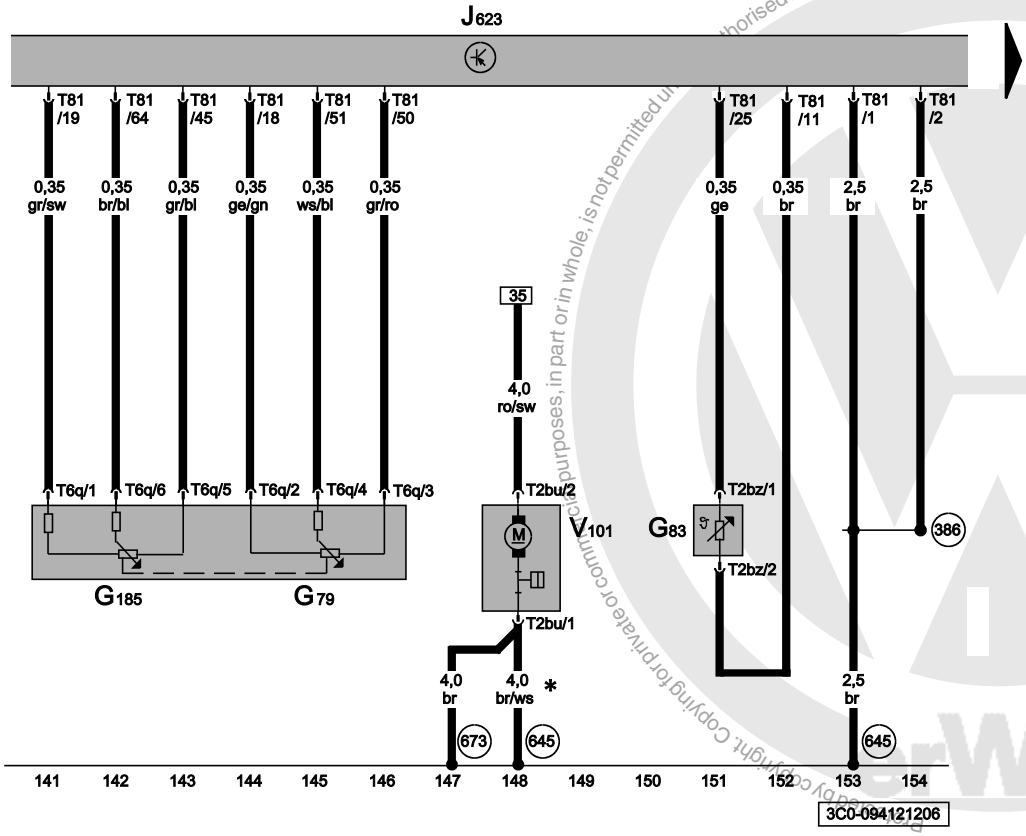
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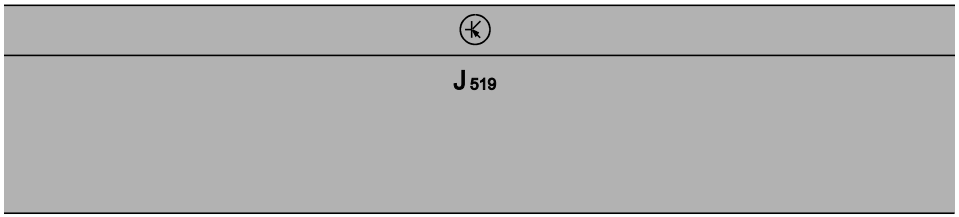
Engine control unit, accelerator position sender, accelerator position sender 2, secondary air pump motor

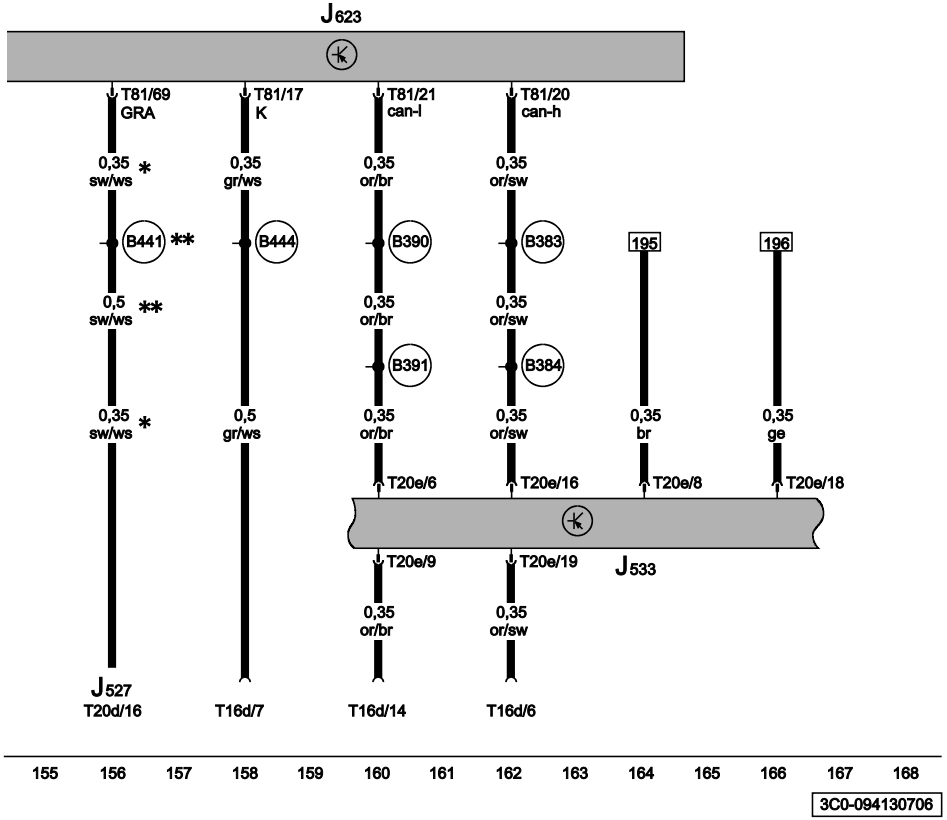
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2bu	2-pin connector
T2bz	2-pin connector
T6q	6-pin connector
T81	81-pin connector
V101	Secondary air pump motor
386	Earth connection 21, in main wiring harness
645	Earth point 1, bulkhead
673	Earth point 3, on front of left longitudinal member
*	applicable from November 2006



ws	=	white
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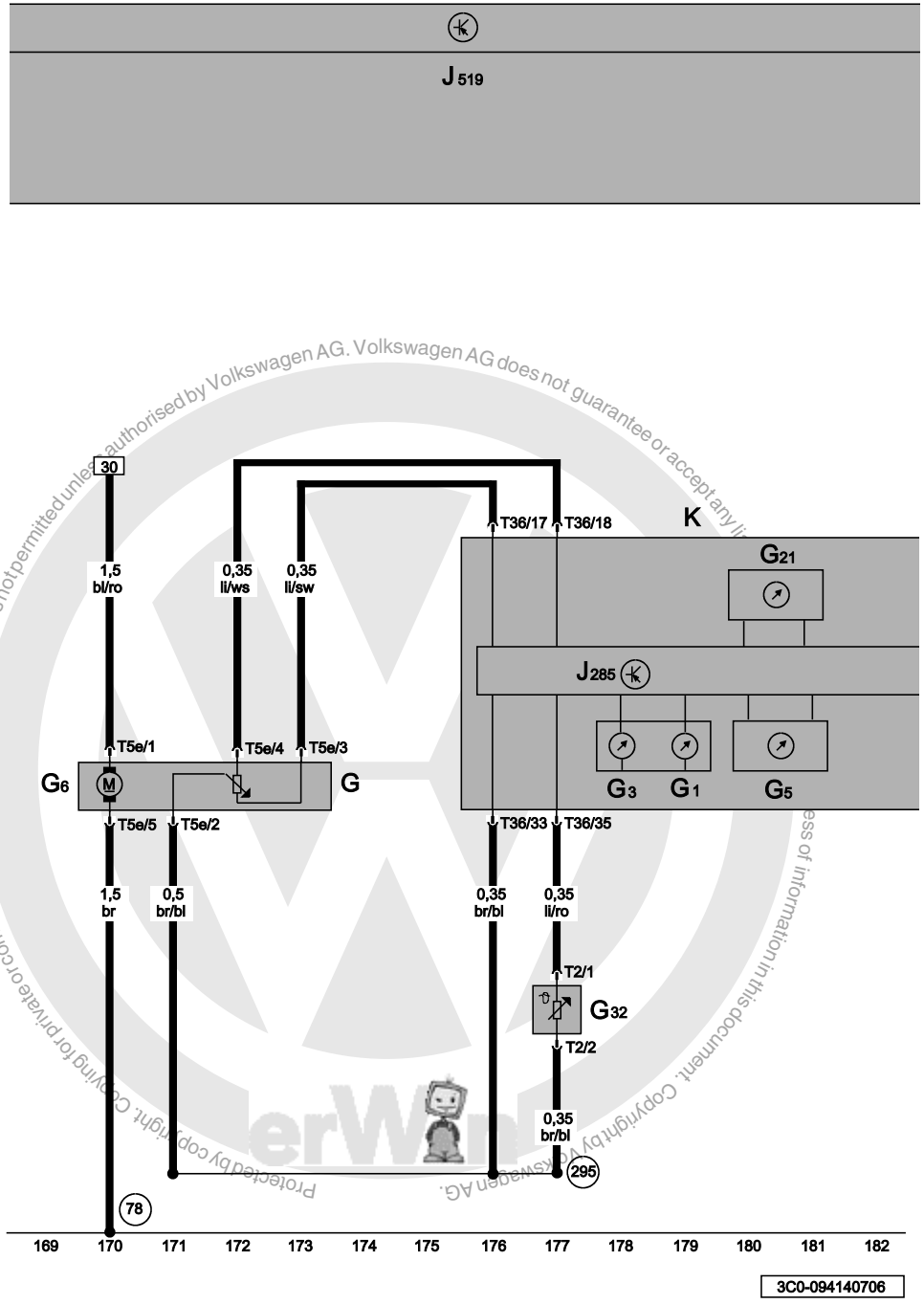


Engine control unit, data bus diagnostic interface, self-diagnosis connection

J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
J623	Engine control unit
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T20d	20-pin connector
T81	81-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	for models with CCS only
**	models with adaptive cruise control only

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or	=	orange
rs	=	pink

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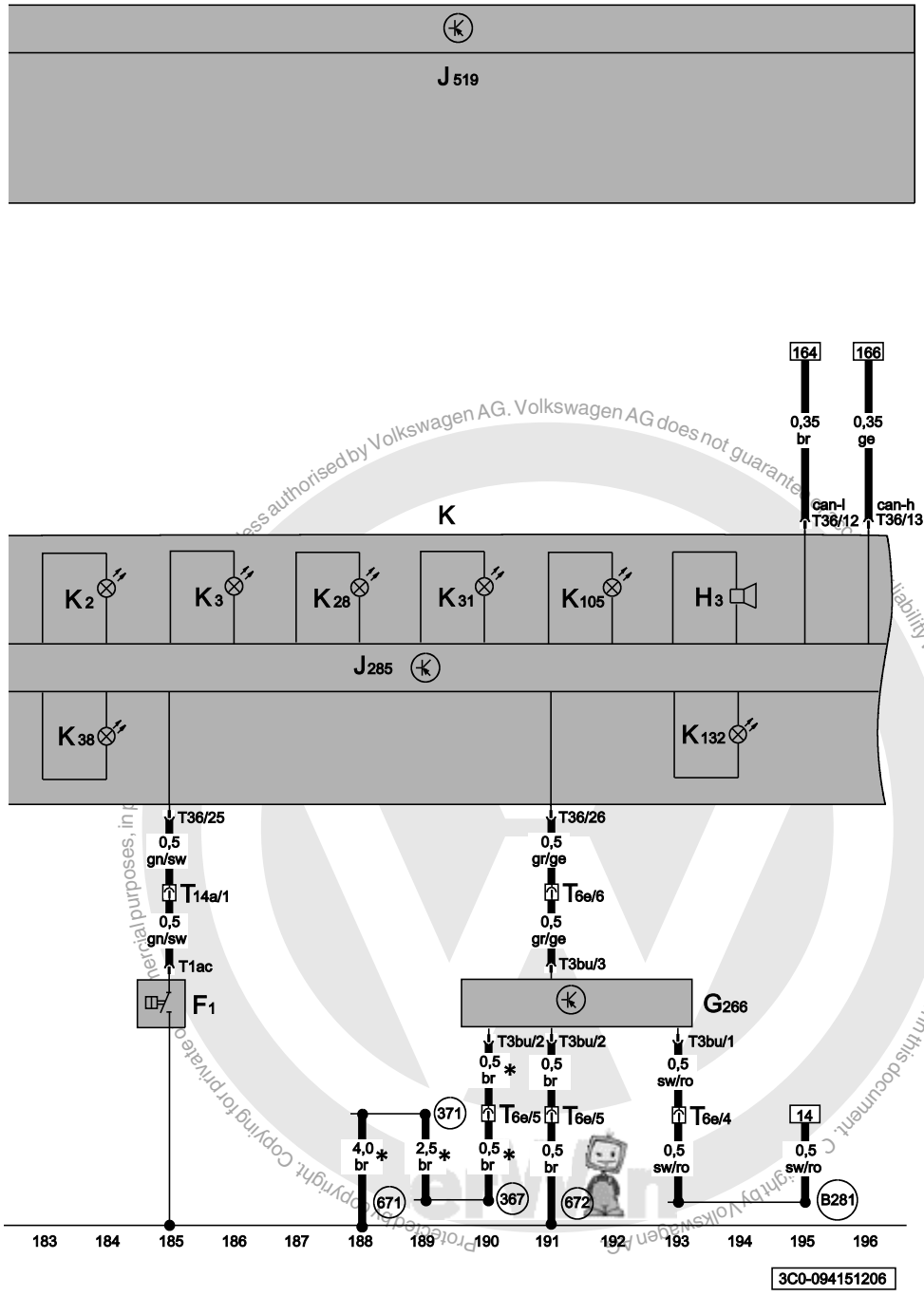


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Dash panel insert, fuel gauge, fuel system pressurisation pump, rev counter, speedometer

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T5e	5-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, coupling point for electric steering in engine compartment
T14a	14-pin connector, coupling point 1 on left in engine compartment
T36	36-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
672	Earth point 2, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness
*	applicable from November 2006

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1.9 l/77 kW - turbo diesel, engine code BLS

From May 2006

2.0 l/103 kW - turbo diesel, engine code BMP

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

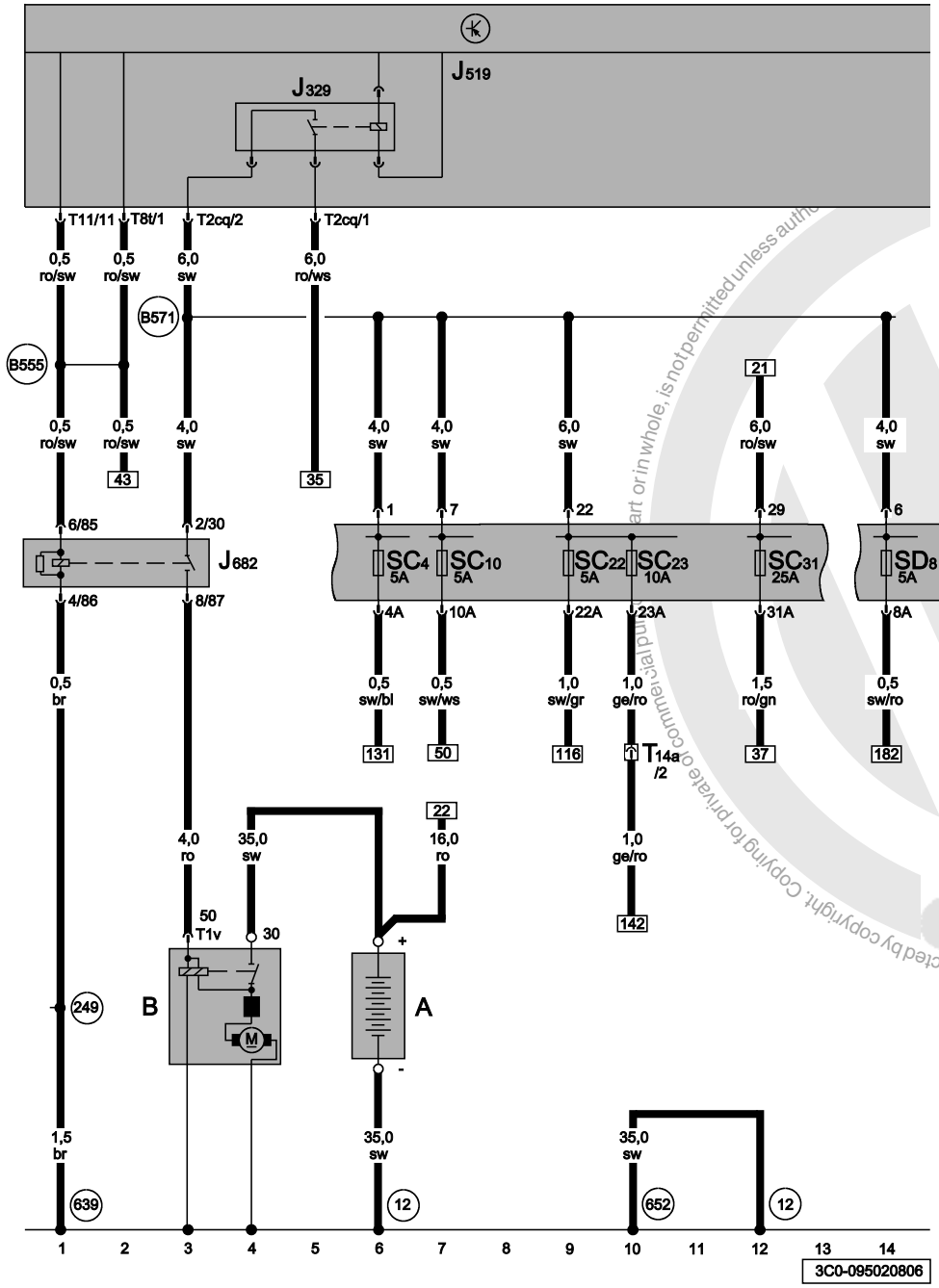
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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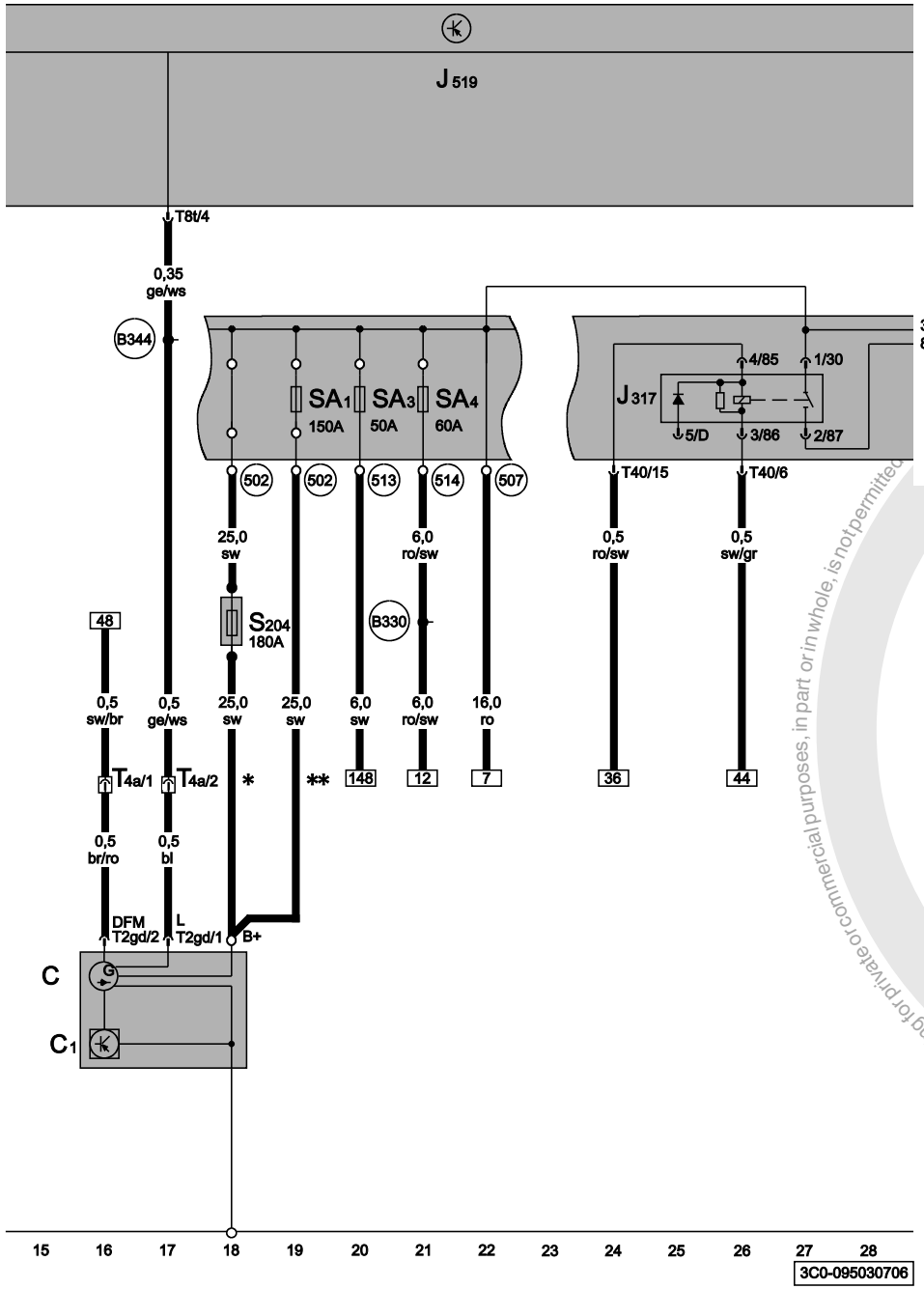


Battery, starter, terminal 15 voltage supply, terminal 50 voltage supply, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
J329	Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, on relay carrier on left under dash panel (433)
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
T14a	14-pin connector, coupling point 1, on left in engine compartment
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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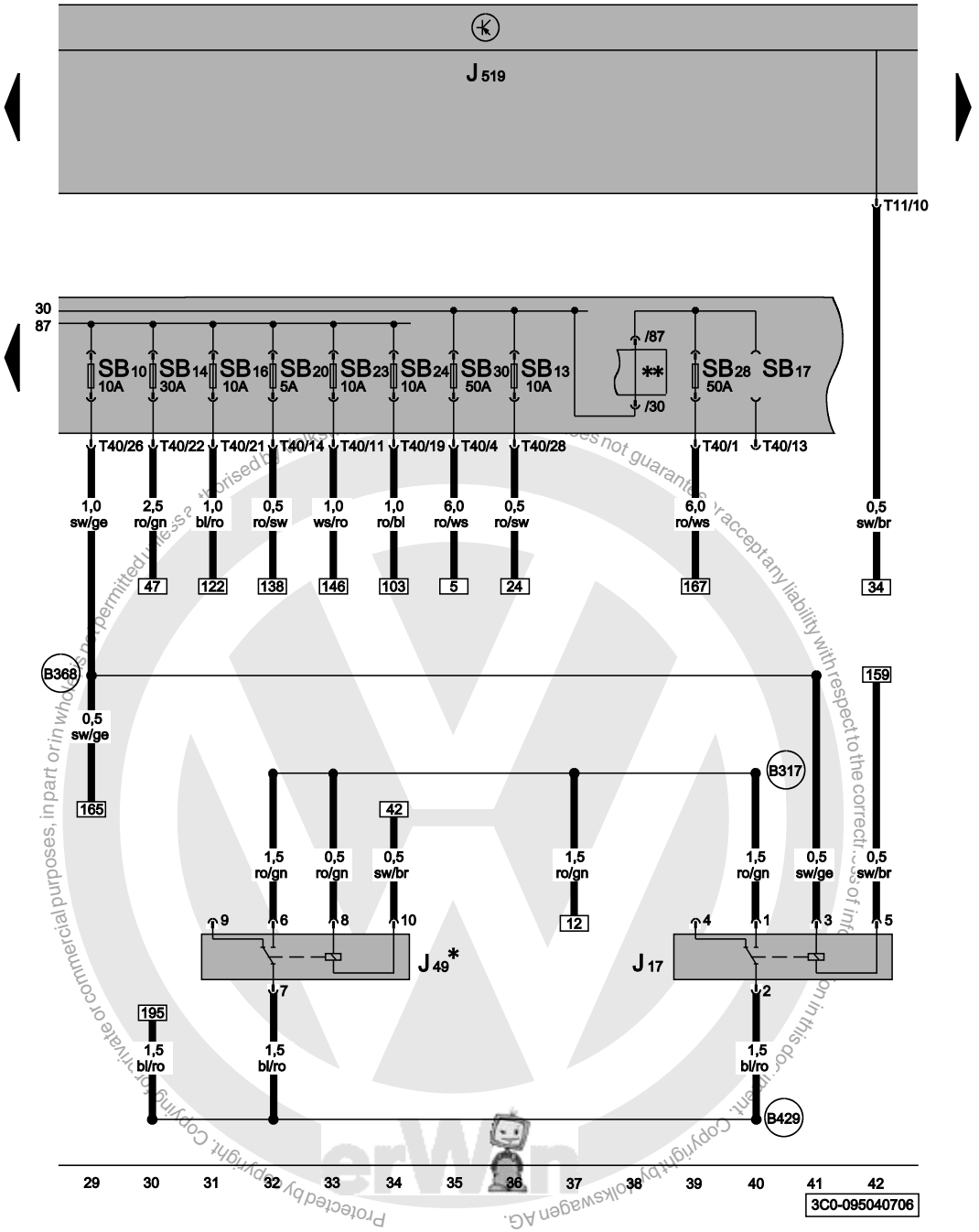


Alternator, terminal 30 voltage supply relay, fuses SA, fuse 1 (30)

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 180 A alternator
**	Only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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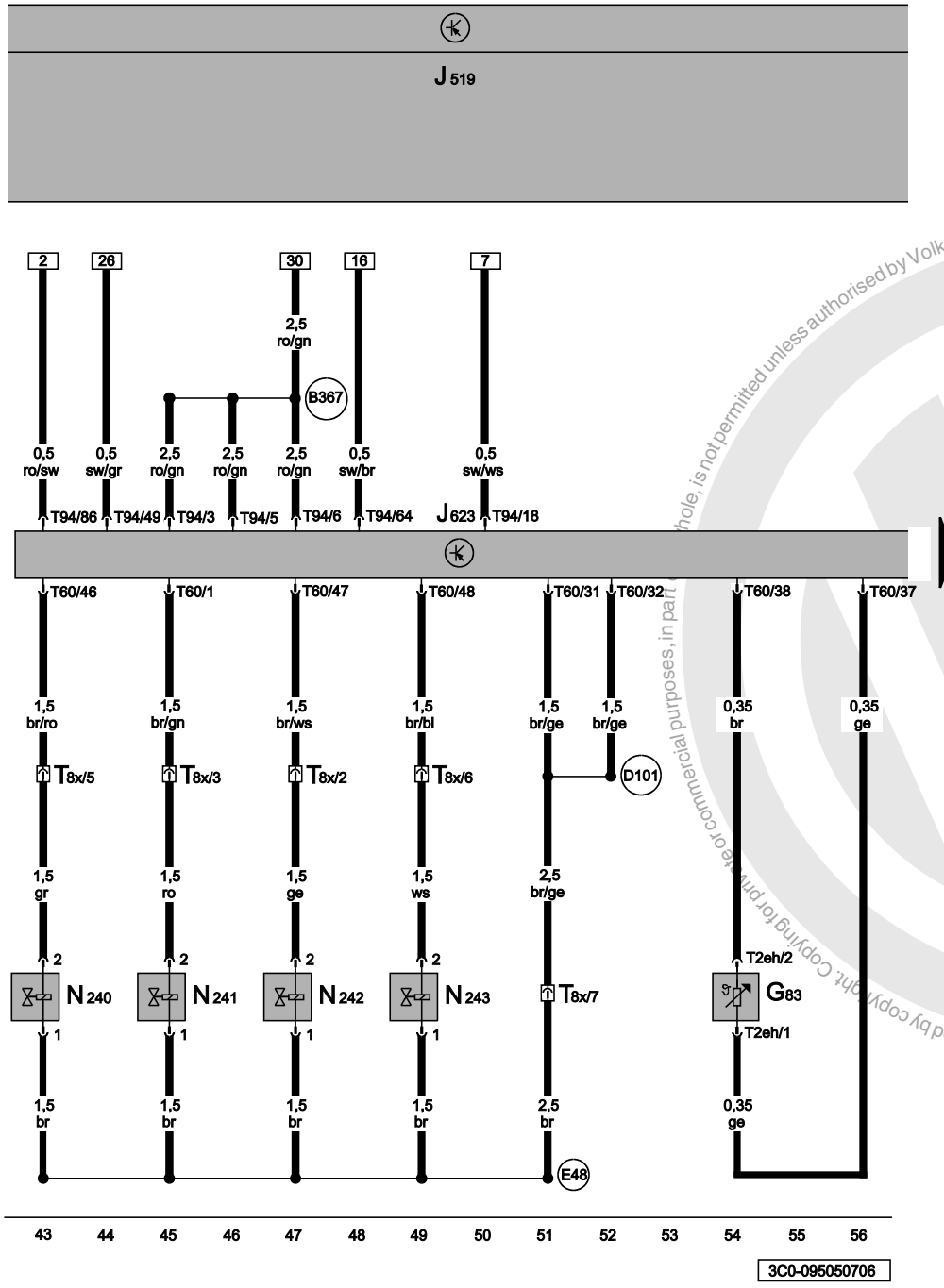


Fuel pump relay, electric fuel pump 2 relay, fuses SB

J17	Fuel pump relay, on relay carrier on left under dash panel (404)
J49	Electric fuel pump 2 relay, on relay carrier on left under dash panel (404)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only models with auxiliary coolant heater
**	Push-in bridge on relay slot R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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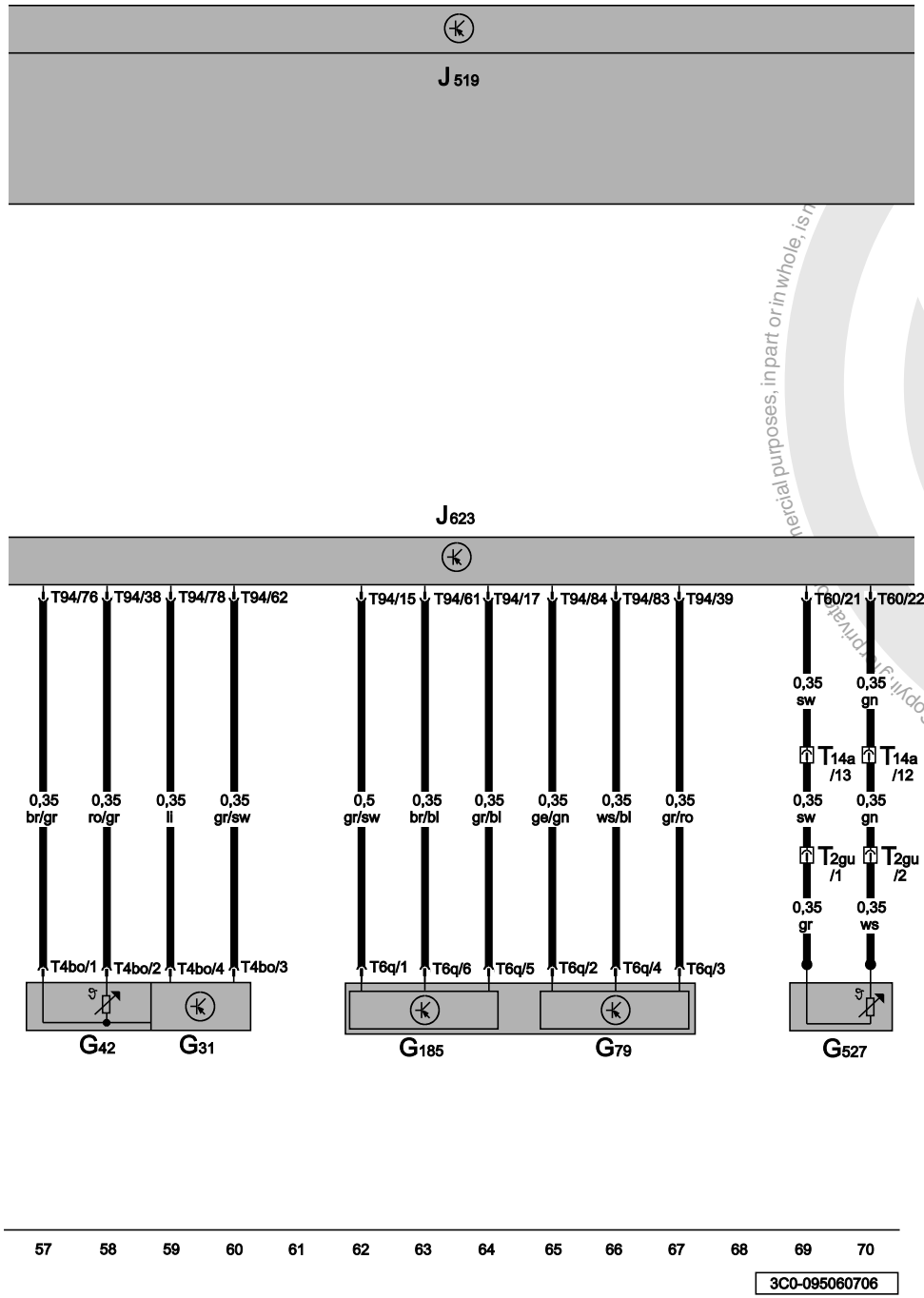


Engine control unit, radiator outlet coolant temperature sender, unit injector valves of cylinders 1-4

G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N240	Unit injector valve of cylinder 1
N241	Unit injector valve of cylinder 2
N242	Unit injector valve of cylinder 3
N243	Unit injector valve of cylinder 4
T2eh	2-pin connector
T8x	8-pin connector, near injectors
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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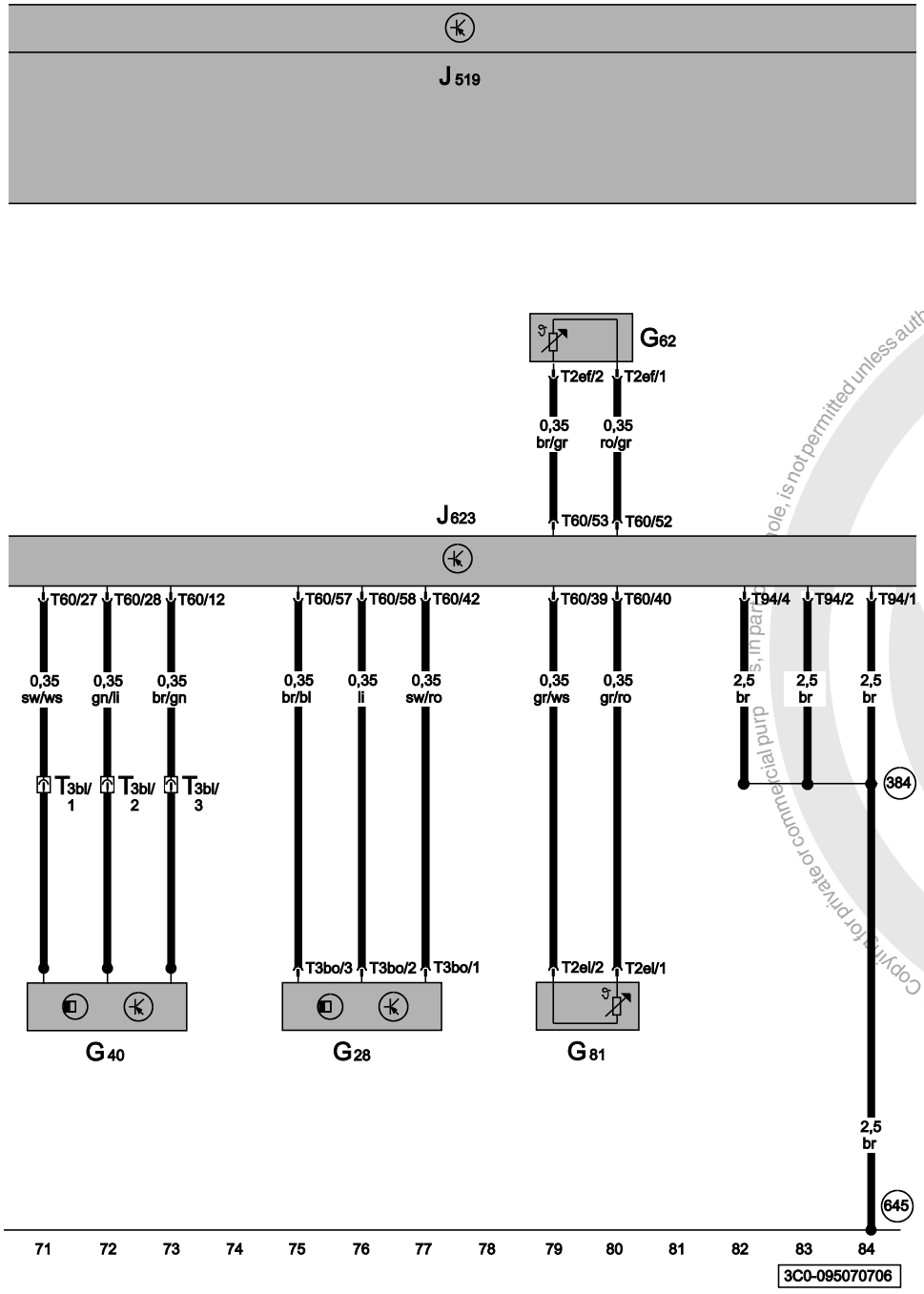


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender, temperature sender after particulate filter

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G527	Temperature sender after particulate filter
J519	Onboard supply control unit
J623	Engine control unit
T2gu	2-pin connector
T4bo	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, coupling point 1, on left in engine compartment
T60	60-pin connector
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
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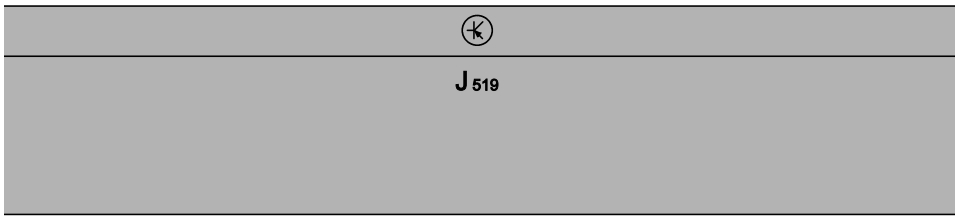


Engine control unit, engine speed sender, Hall sender, fuel temperature sender, coolant temperature sender

G28	Engine speed sender
G40	Hall sender
G62	Coolant temperature sender
G81	Fuel temperature sender
J519	Onboard supply control unit
J623	Engine control unit
T2ef	2-pin connector
T2el	2-pin connector, black
T3bl	3-pin connector, black
T3bo	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
(384)	Earth connection 19, in main wiring harness
(645)	Earth point 1, on bulkhead

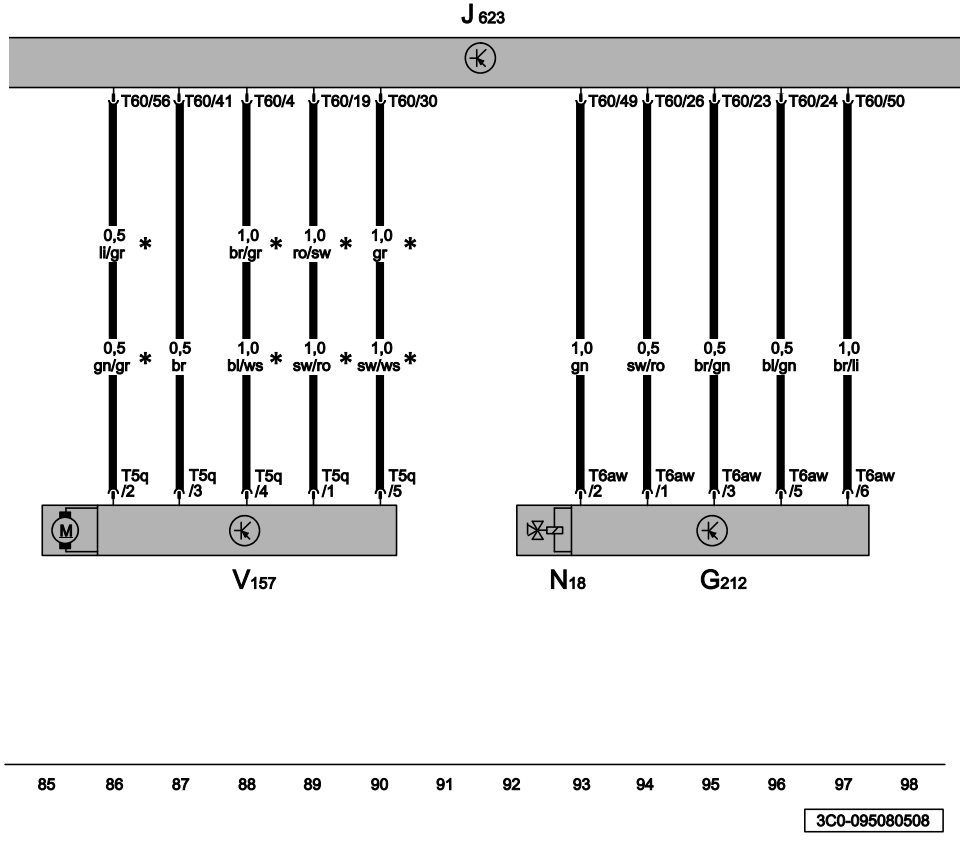
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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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li	=	purple
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or	=	orange
rs	=	pink

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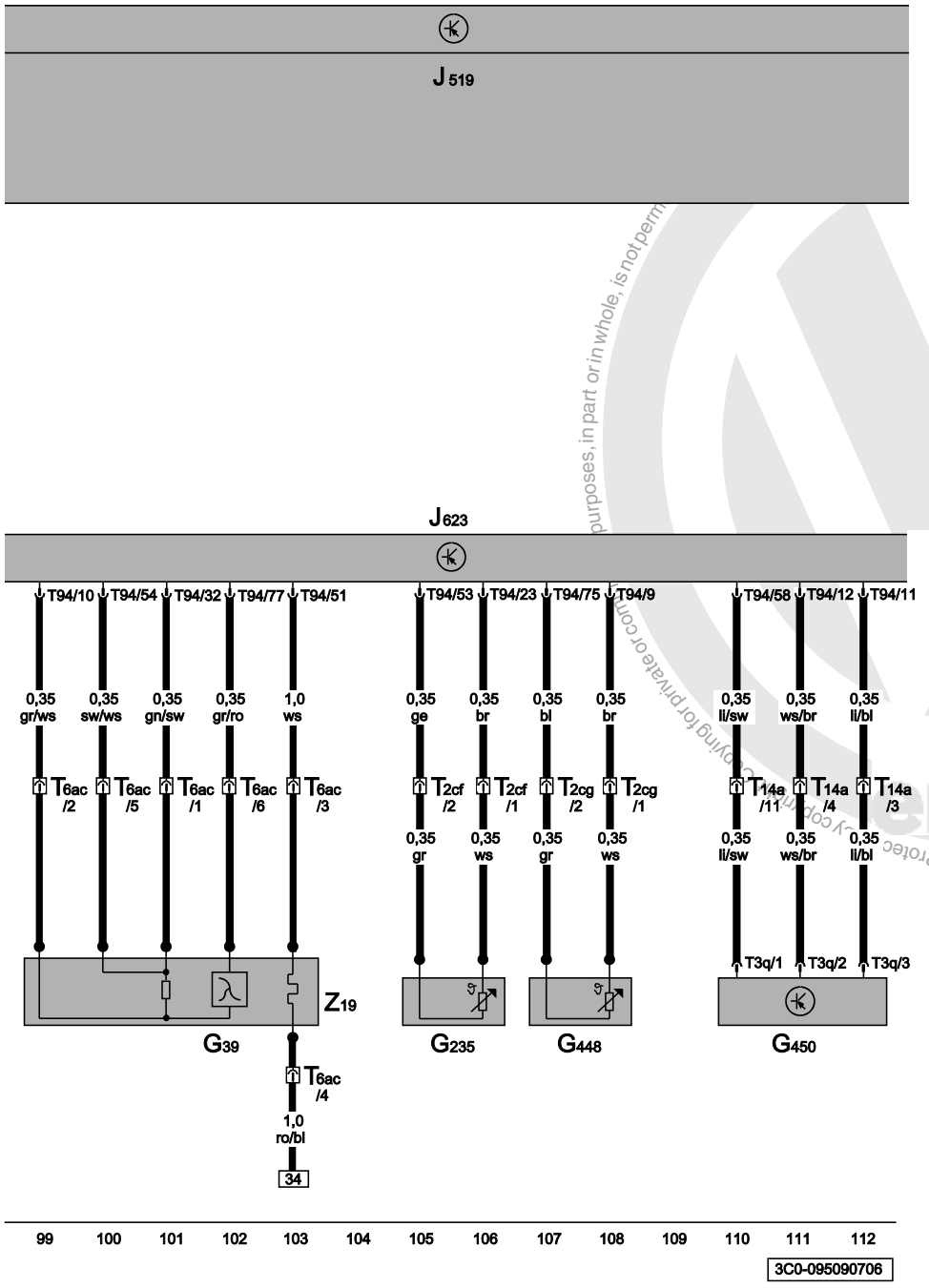
Engine control unit, intake manifold flap motor, exhaust gas recirculation potentiometer, exhaust gas recirculation valve

G212	Exhaust gas recirculation potentiometer
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
T5q	5-pin connector
T6aw	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor
*	Depends on equipment



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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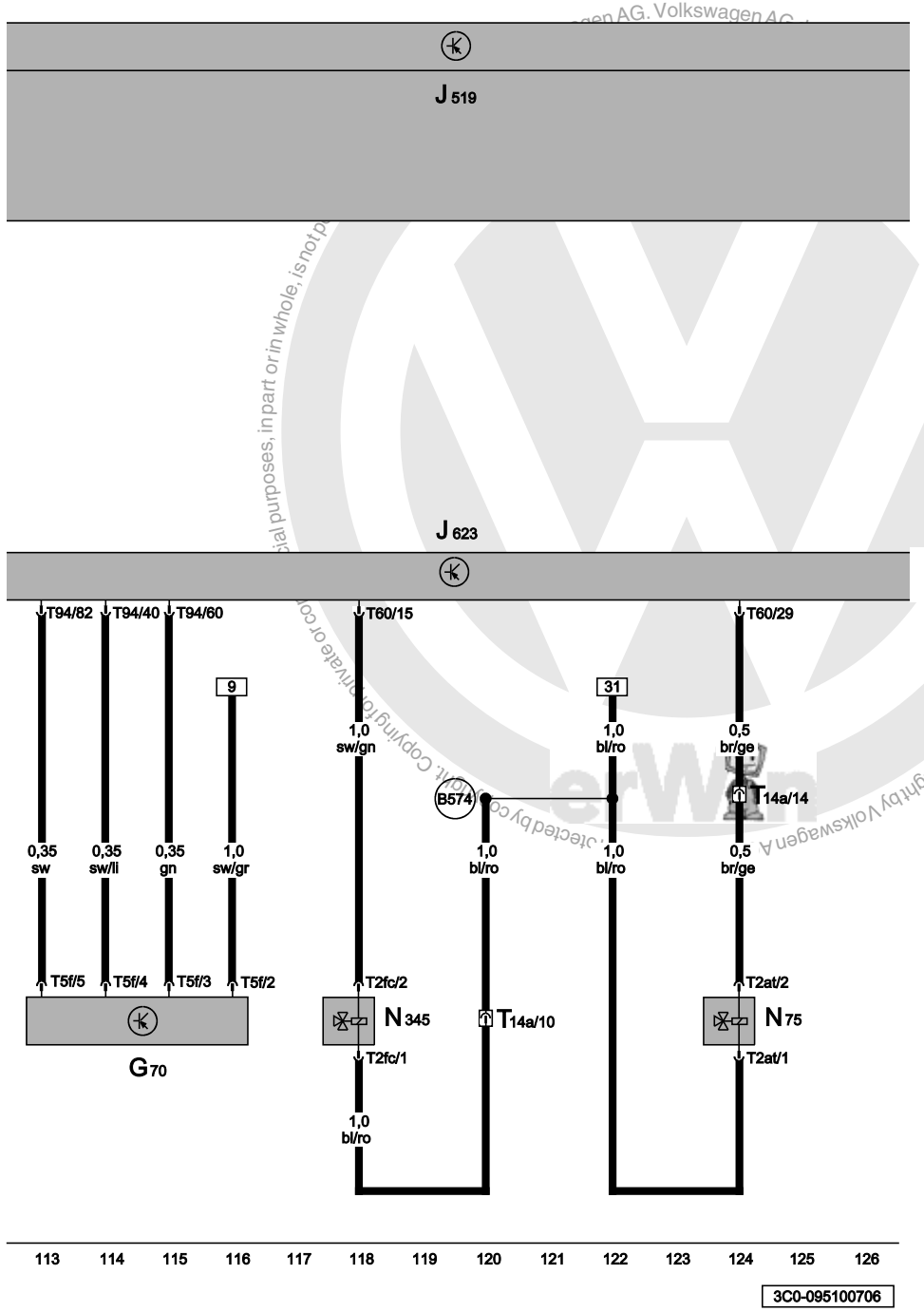


Engine control unit, Lambda probe, exhaust gas pressure sensor 1, exhaust gas temperature sender 1, exhaust gas temperature sender 2 for bank 1

G39	Lambda probe
G235	Exhaust temperature sender 1
G448	Exhaust gas temperature sender 2 for bank 1
G450	Exhaust gas pressure sensor 1
J519	Onboard supply control unit
J623	Engine control unit
T2cf	2-pin connector
T2cg	2-pin connector
T3q	3-pin connector
T6ac	6-pin connector, black, coupling point for Lambda probe
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T94	94-pin connector
Z19	Lambda probe heater

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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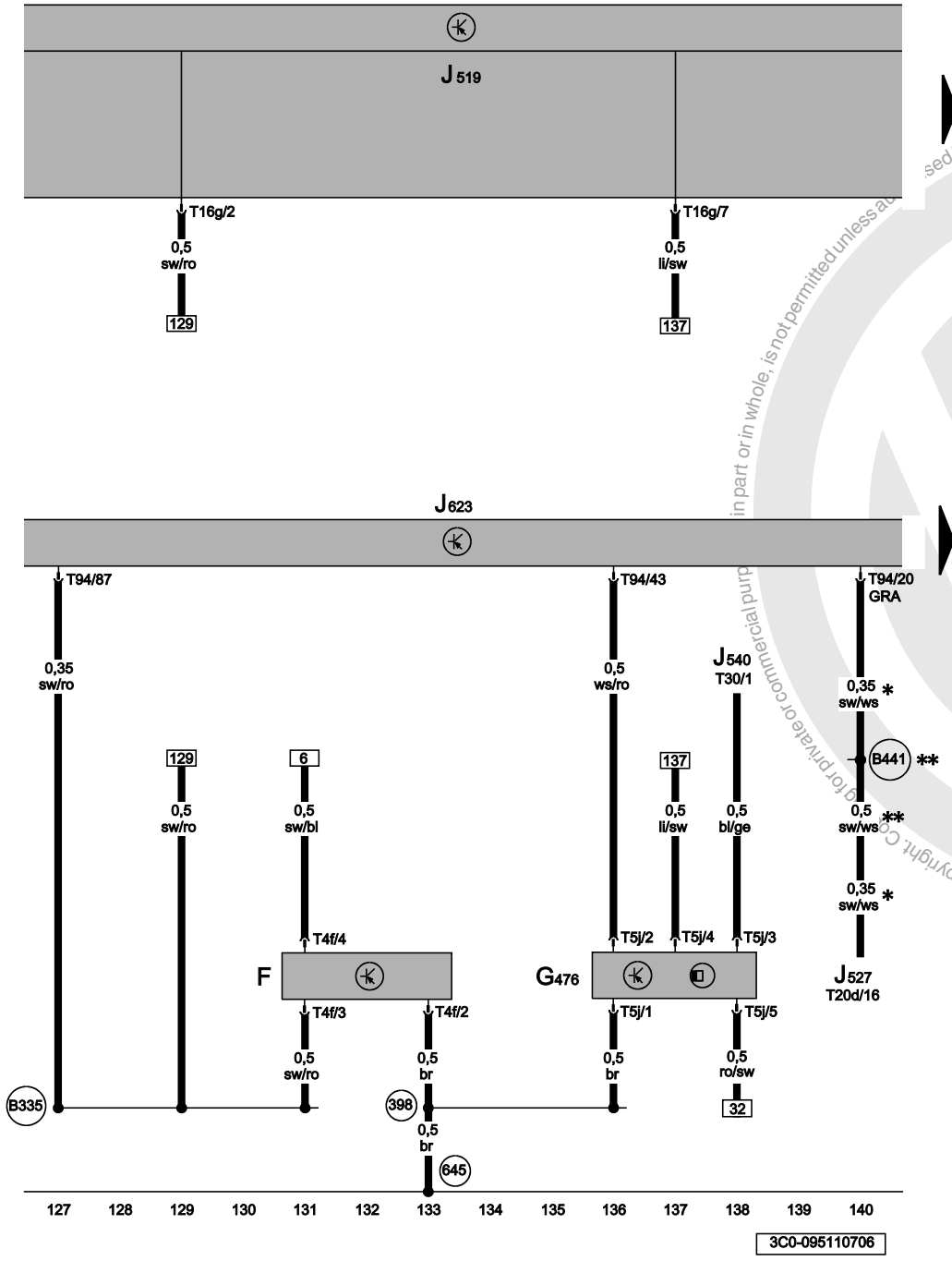


Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler changeover valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler changeover valve
T2at	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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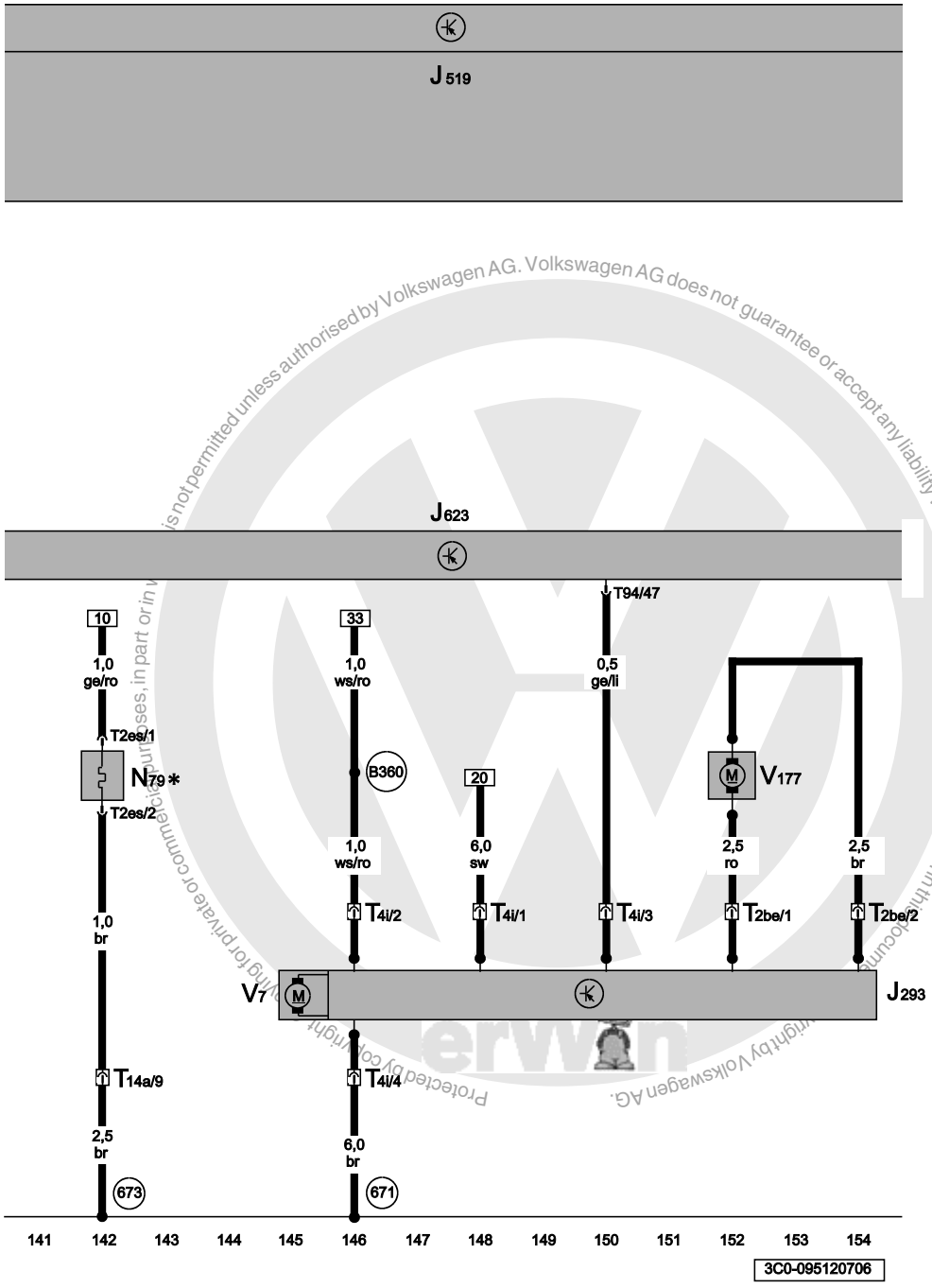


Engine control unit, clutch position sender, brake light switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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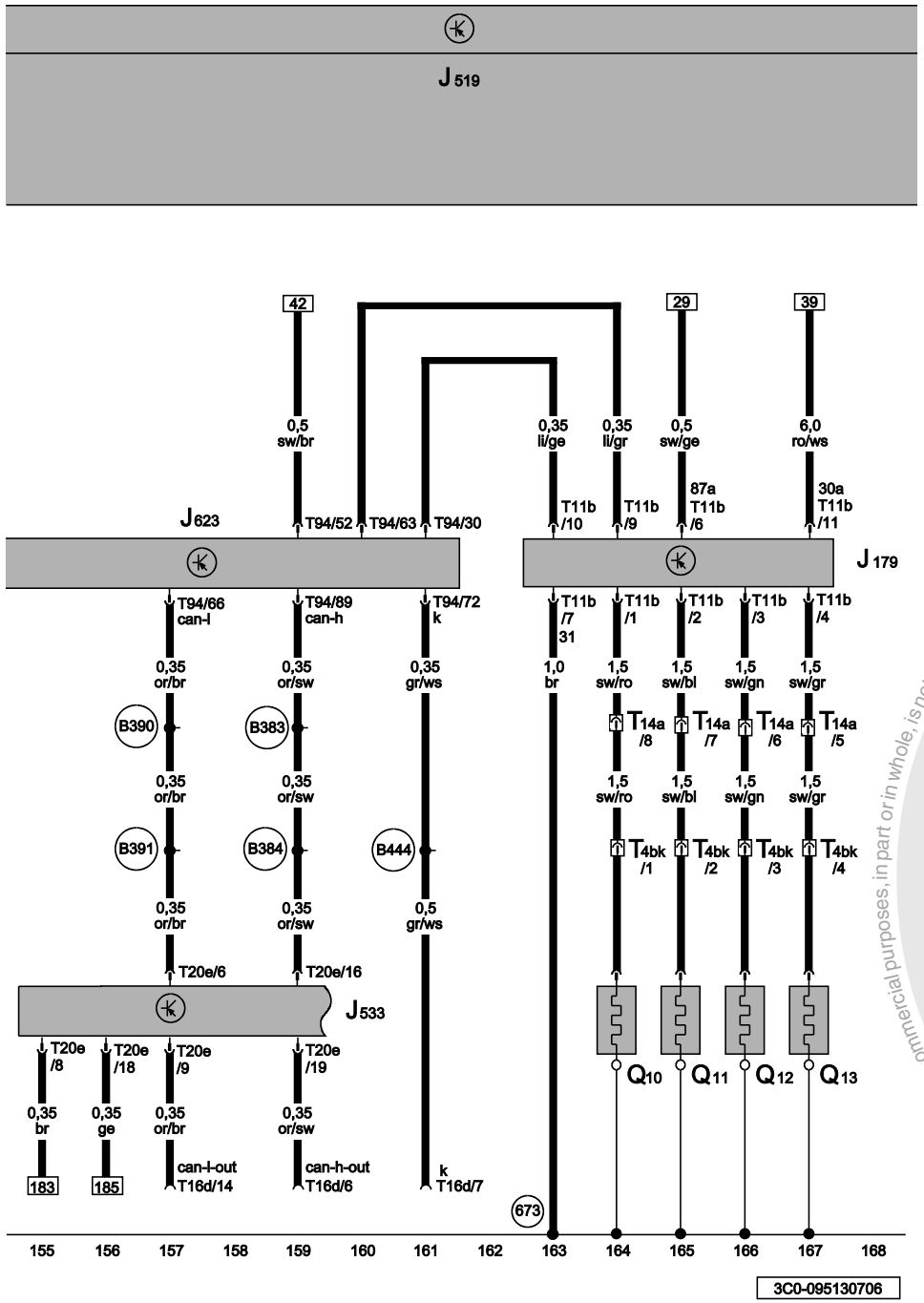


Engine control unit, crankcase breather heater element, radiator fan

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase heater element breather
T2es	2-pin connector
T2be	2-pin connector, on lock carrier
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B360	Connection 11 (87a), in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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ge	=	yellow
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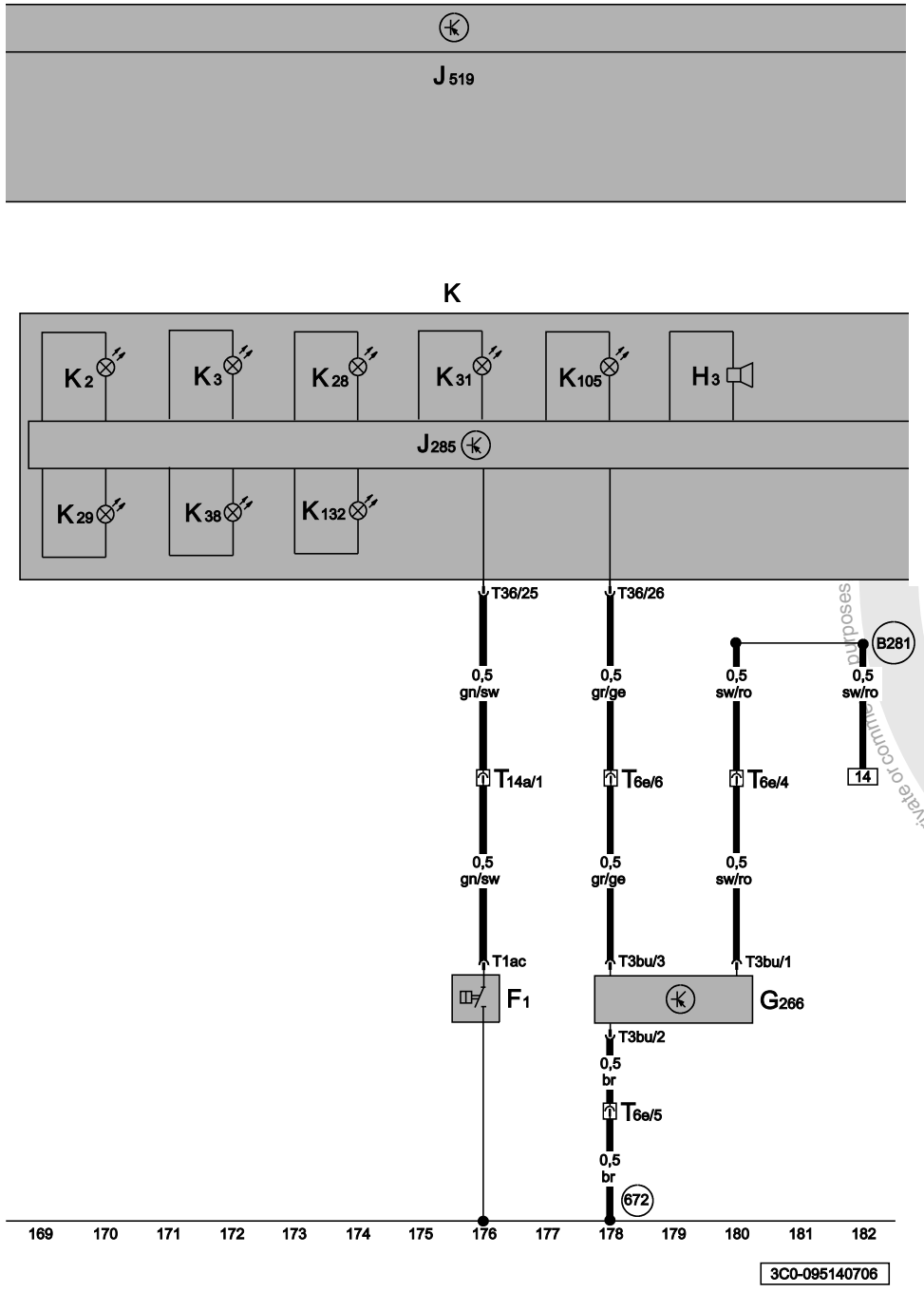


Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T4bk	4-pin connector, coupling point glow plugs
T11b	11-pin connector
T14a	14-pin connector, coupling point 1, on left in engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
673	Earth point 3, on front of left longitudinal member
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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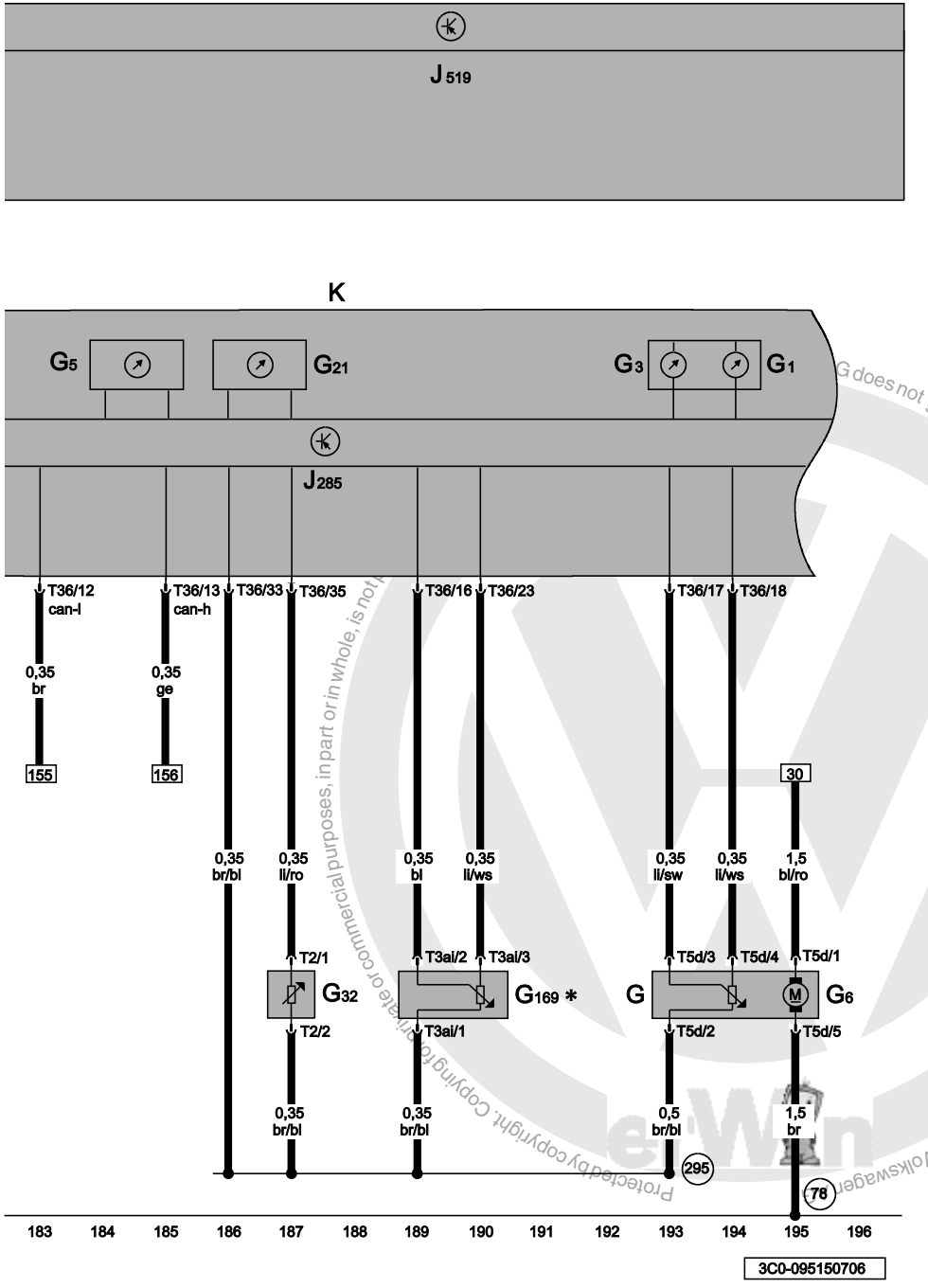


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point, electric steering, in engine compartment
T14a	14-pin connector, black , coupling point 1, on left in engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Dash panel insert, rev counter, speedometer, coolant temperature gauge, fuel system pressurisation pump, fuel gauge

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
*	Only models with all-wheel drive

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2.0 l/103 kW - Turbodiesel, engine code BKP
from May 2006

2.0 l/100 kW - Turbodiesel, engine code BMA
from May 2006

2.0 l/90 kW - Turbodiesel, engine code BVE
from May 2006

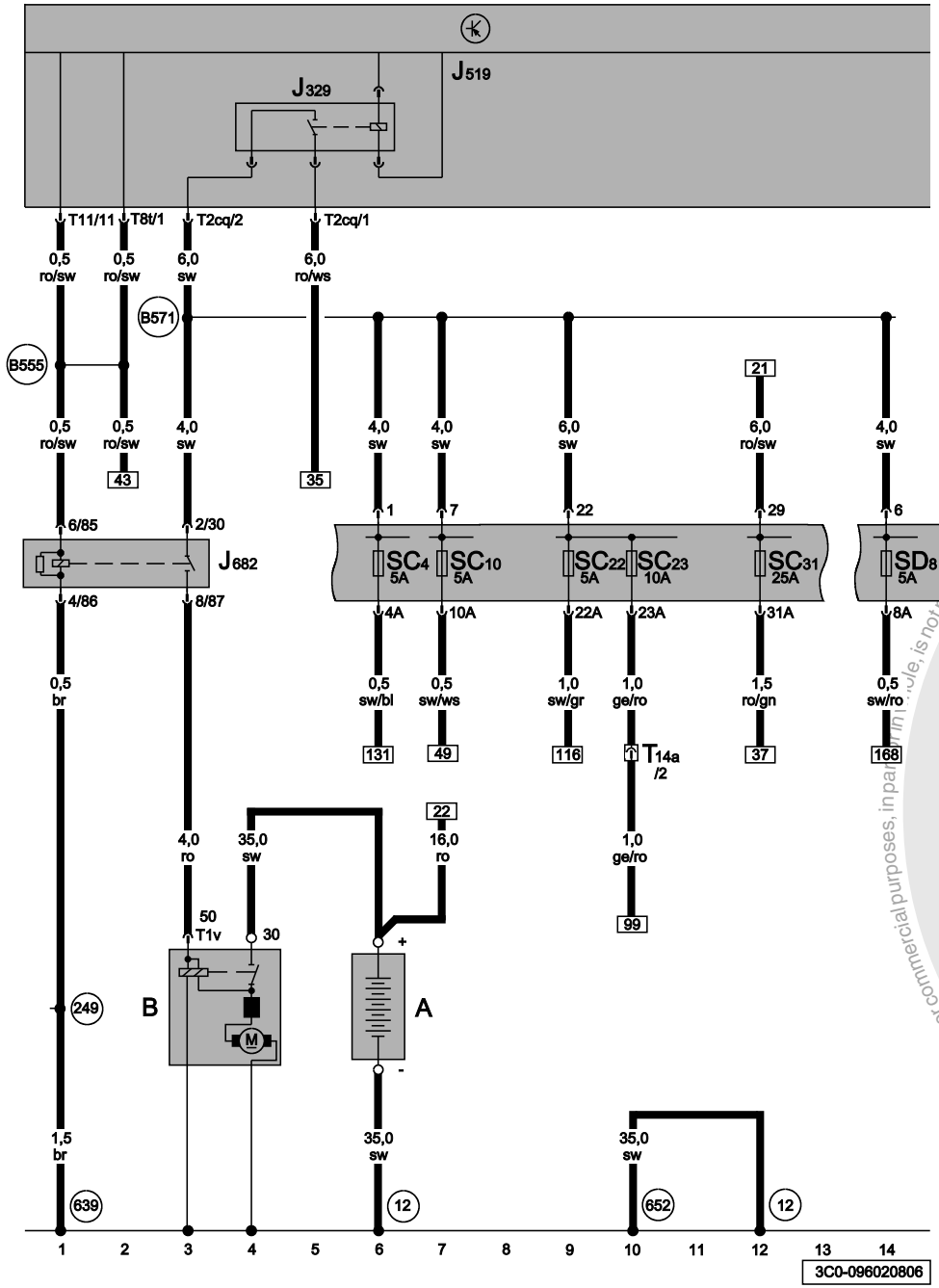
2.0 l/88 kW - Turbodiesel, engine code BWV
from May 2006

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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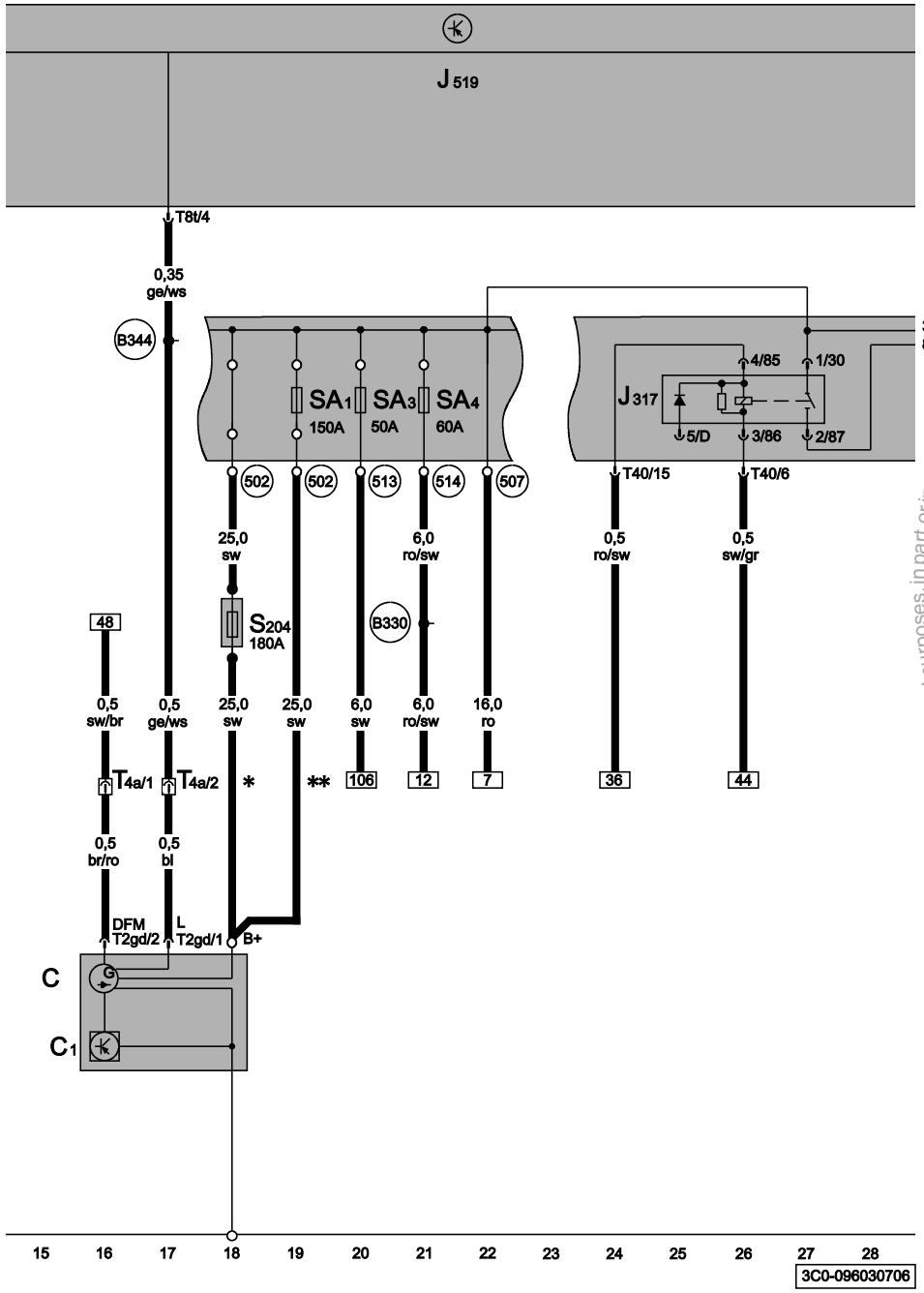
Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuse

A	Battery
B	Starter
J519	Onboard power supply control unit J329-Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point for engine and gearbox earth
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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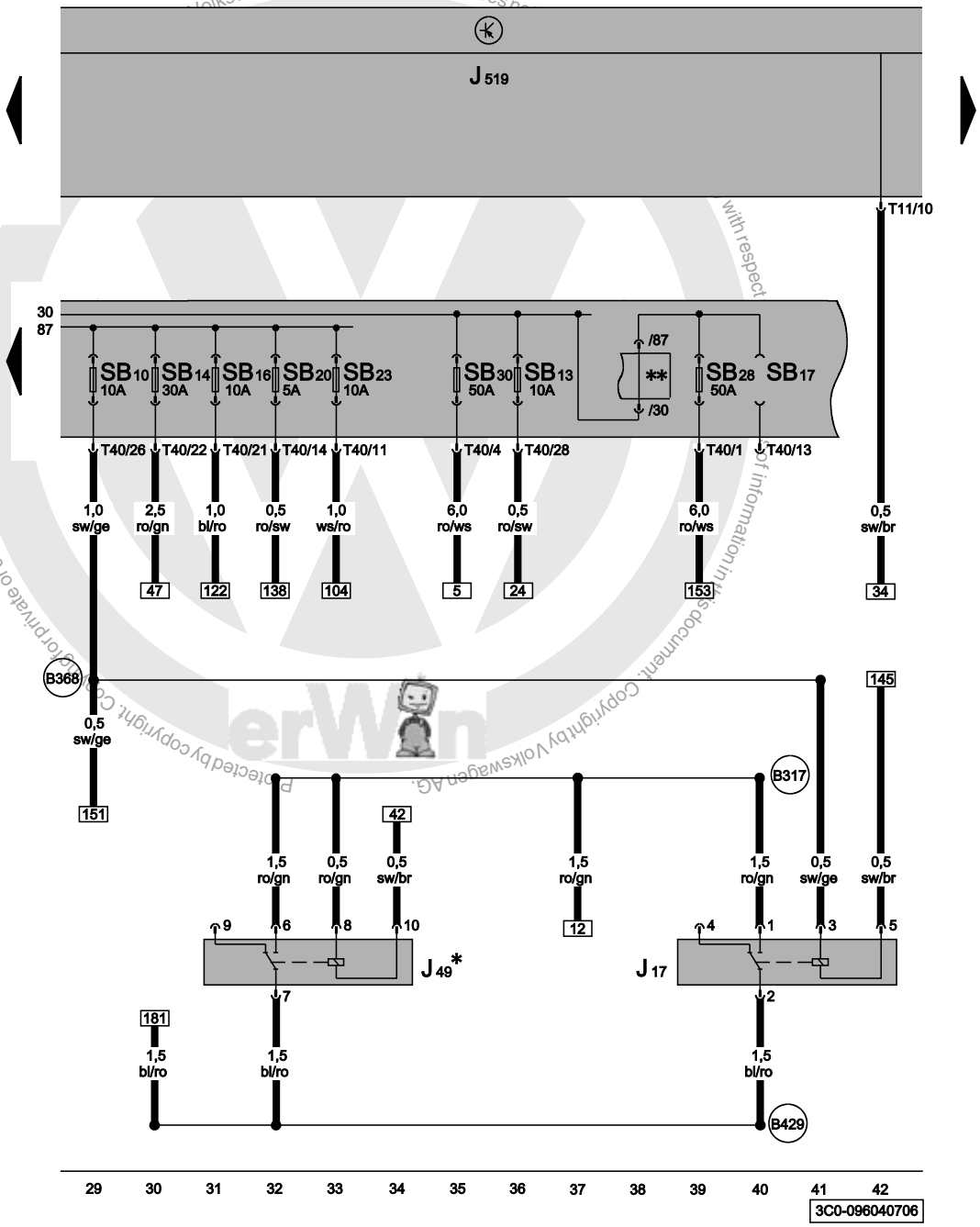
Alternator, terminal 30 voltage supply relay, fuses SA, fuse 1 (30)



C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on electronics box, on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Screw connection 1 (30a), on relay plate
507	Screw connection (30), on fuse holder on battery
513	Screw connection 3 (30a), on relay plate
514	Screw connection 4 (30a), on relay plate
B330	Positive connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	only models with 180 A alternator
**	only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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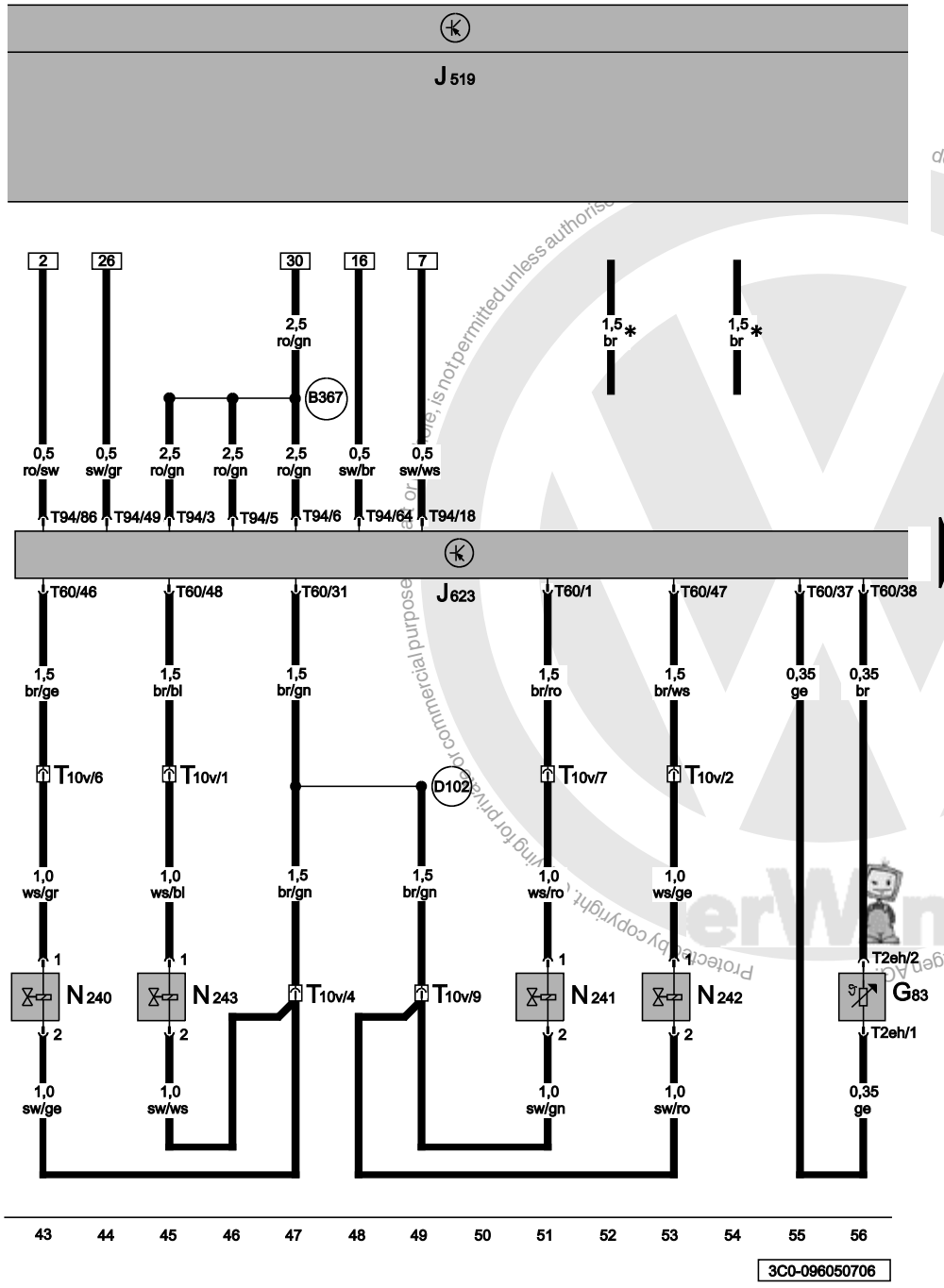


Fuel pump relay, electric fuel pump 2 relay, fuses SB

J17	Fuel pump relay, on relay carrier under dash panel on left (404)
J49	Electric fuel pump 2 relay, on relay carrier under left dash panel (404)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B317	Positive connection 3 (30a), in main wiring harness
B368	Positive connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	only auxiliary coolant heater
**	push-in bridge on the relay locations R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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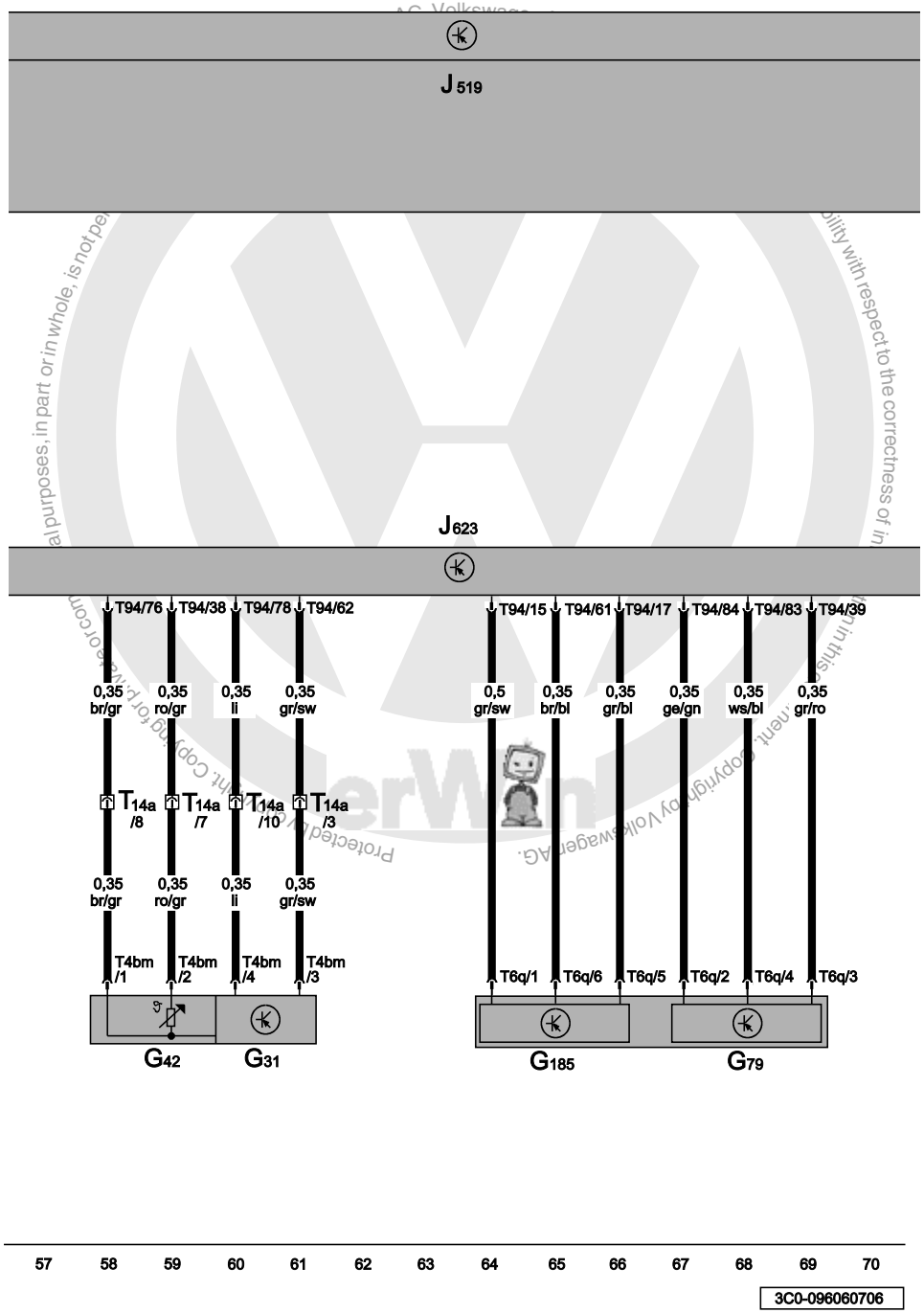


Engine control unit, radiator outlet coolant temperature sender, unit injector valves, No. 1 cyl. to No. 4

G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
T2eh	2-pin connector
T10v	10-pin connector, on left of cylinder head
T60	60-pin connector
T94	94-pin connector
B367	Positive connection 18 (87a), in main wiring harness
D102	Connection 2, in engine compartment wiring harness
*	unused cable

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

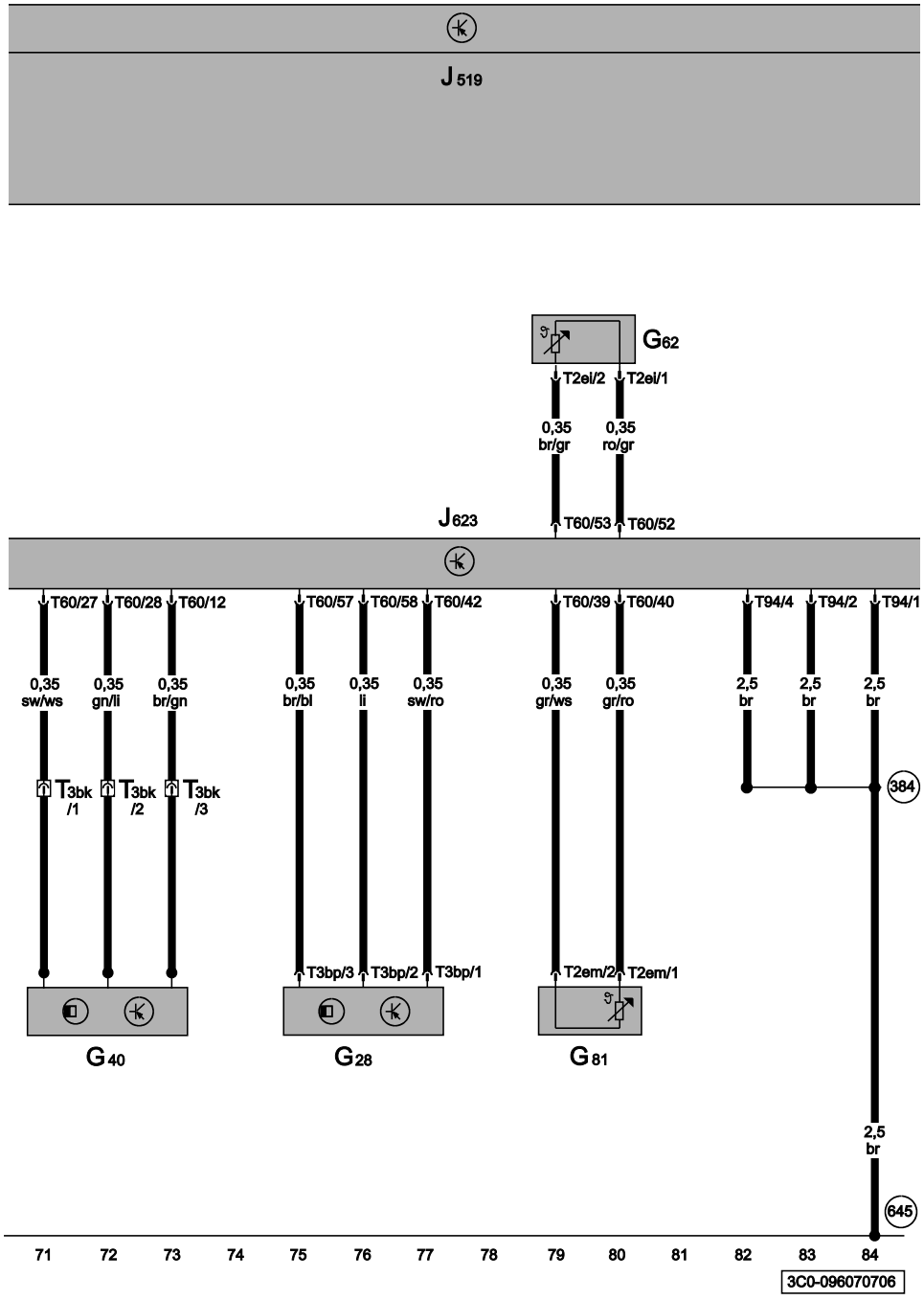
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Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T4bm	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, coupling point 1 in left engine compartment
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

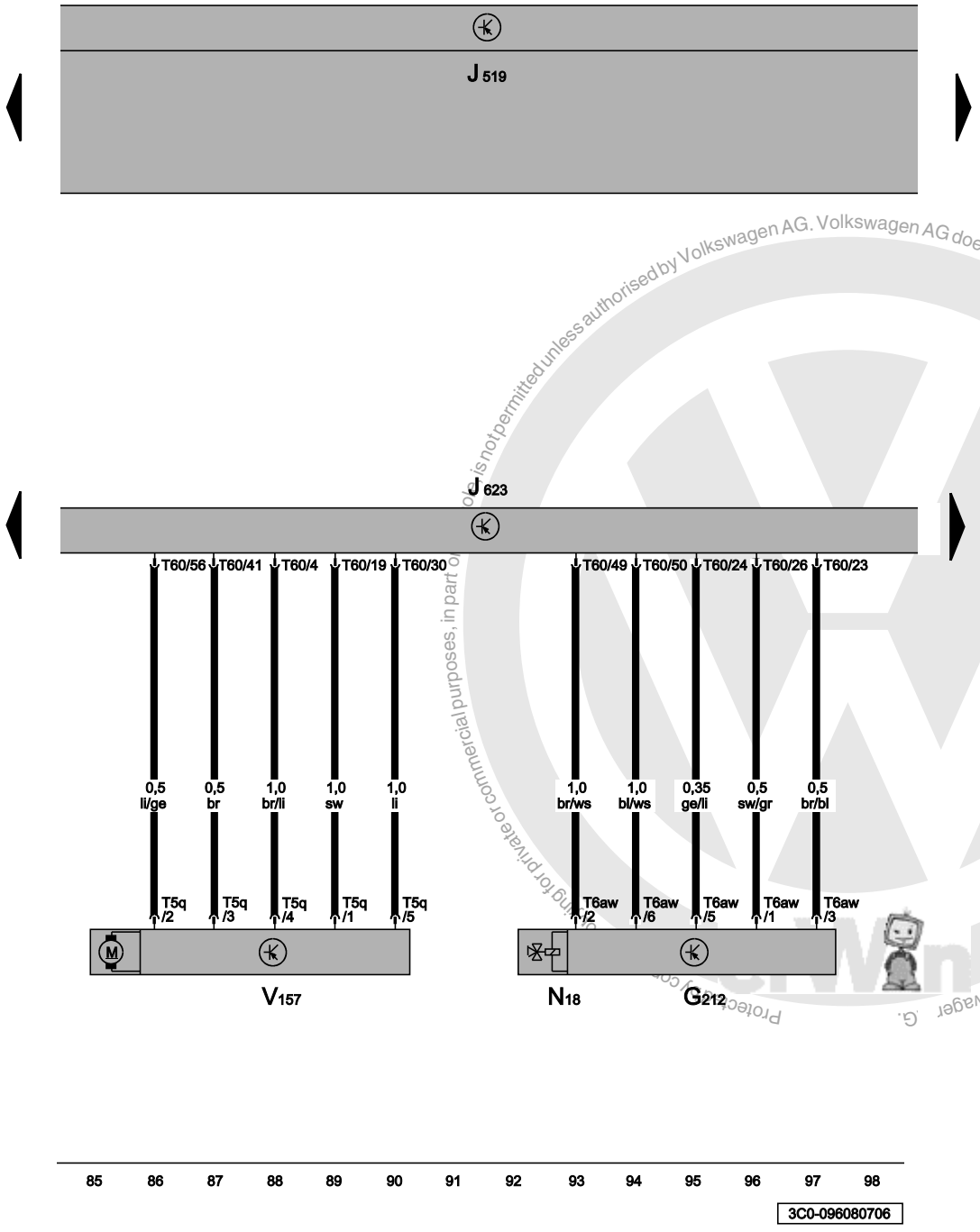


Engine control unit, engine speed sender, Hall sender, fuel temperature sender, coolant temperature sender, fuel temperature sender

G28	Engine speed sender
G40	Hall sender
G62	Coolant temperature sender
G81	Fuel temperature sender
J519	Onboard supply control unit
J623	Engine control unit
T2ei	2-pin connector
T2em	2-pin connector, black
T3bk	3-pin connector, black
T3bp	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
384	Earth connection 19, in main wiring harness
645	Earth point 1, on bulkhead

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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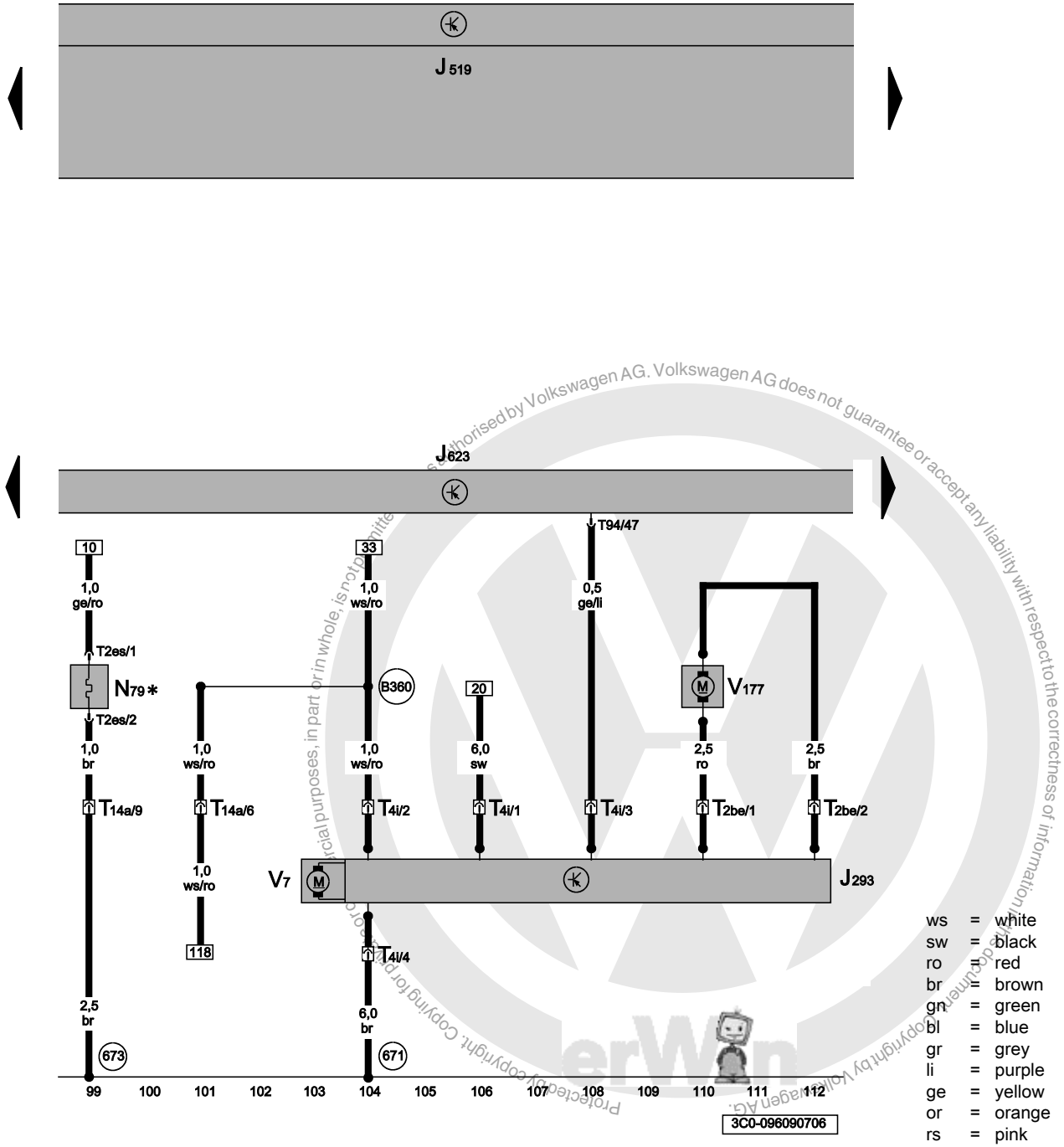


Engine control unit, intake manifold flap motor, exhaust gas recirculation potentiometer, exhaust gas recirculation valve

G212	Exhaust gas recirculation potentiometer
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
T5q	5-pin connector
T6aw	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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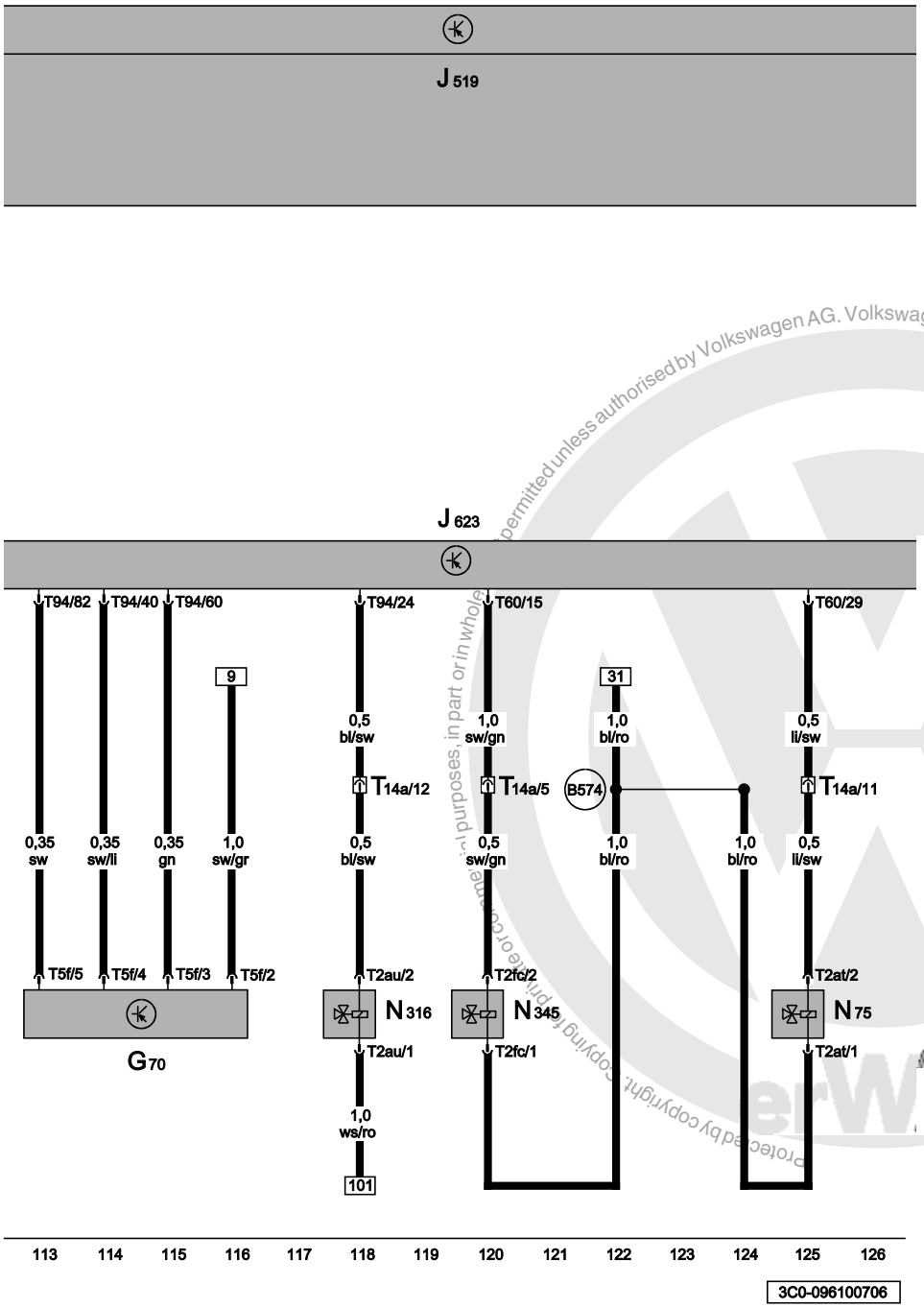


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, heater element for crankcase breather, radiator fan

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N79	Heater element for crankcase breather
T2es	2-pin connector
T2be	2-pin connector, on lock carrier
T4i	4-pin connector, black, coupling point radiator fan on centre lock carrier
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B360	Positive connection 11 (87a), in main wiring harness
*	models for cold countries only

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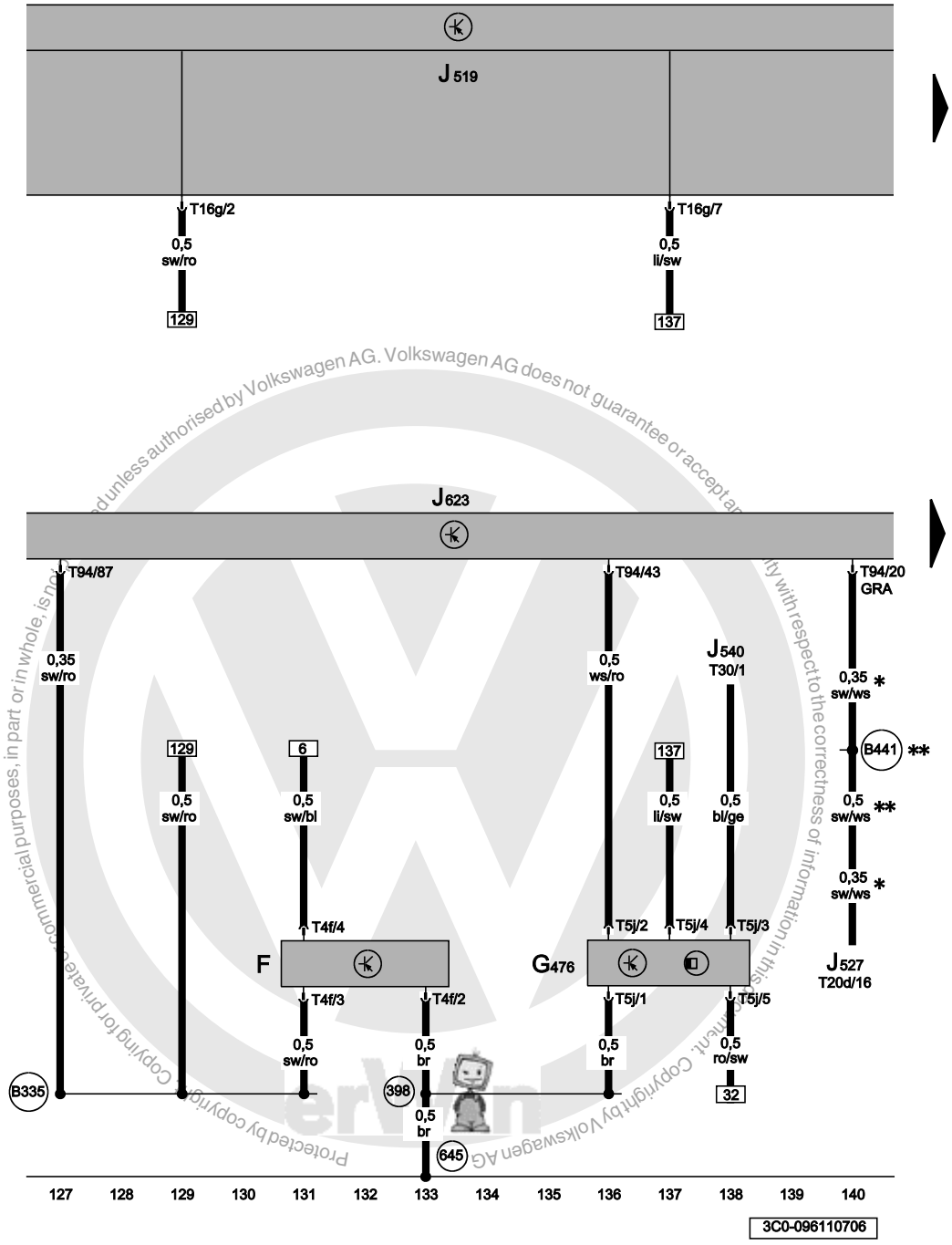


Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler change-over valve, intake manifold flap valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N316	Intake manifold flap valve
N345	Exhaust gas recirculation cooler change-over valve
T2au	2-pin connector
T2at	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Positive connection 20 (87a), in main wiring harness

ws	=	white
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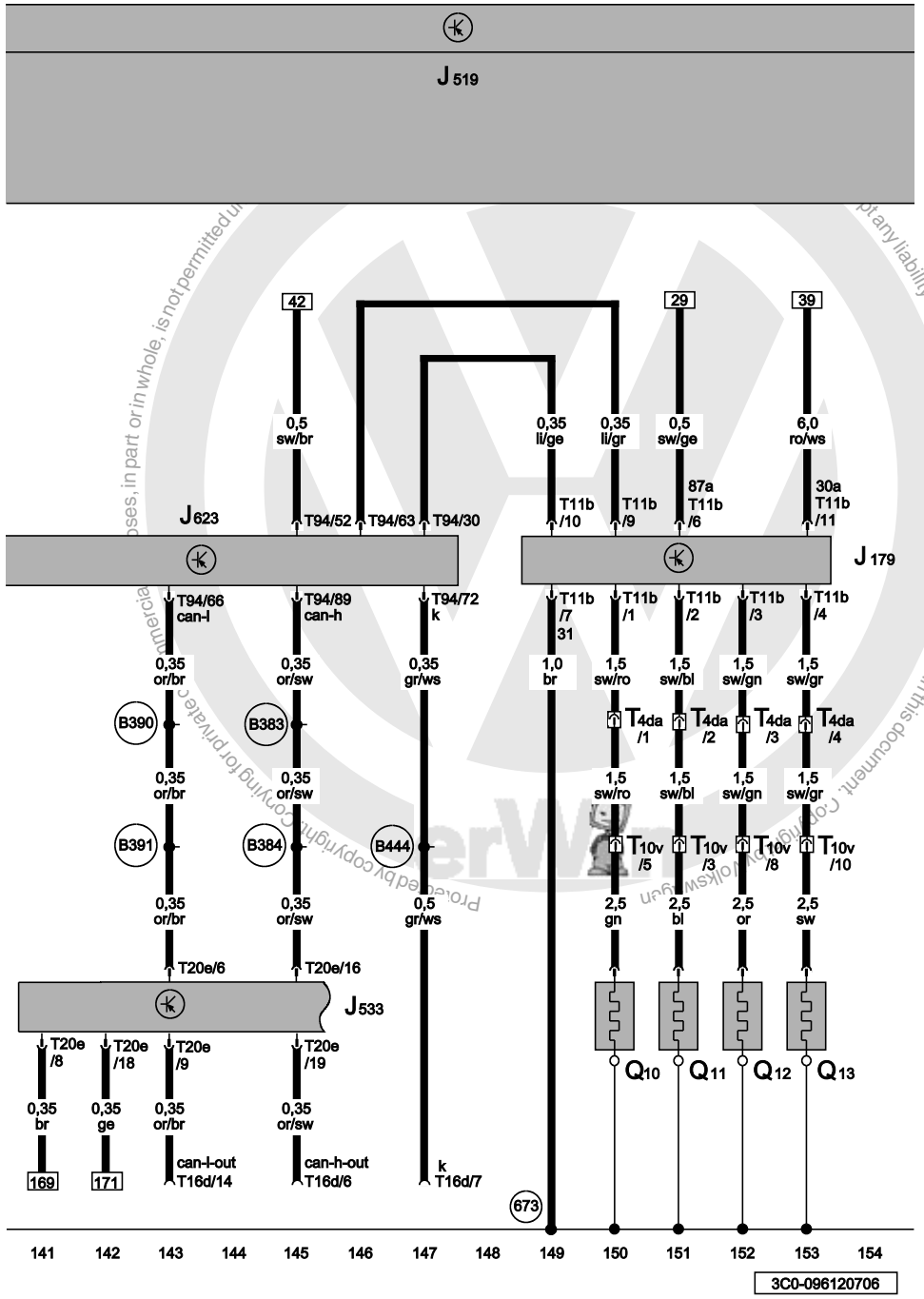


Engine control unit, clutch position sender, brake light switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Electric park and handbrake control unit
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	for models with CCS only
**	models with adaptive cruise control only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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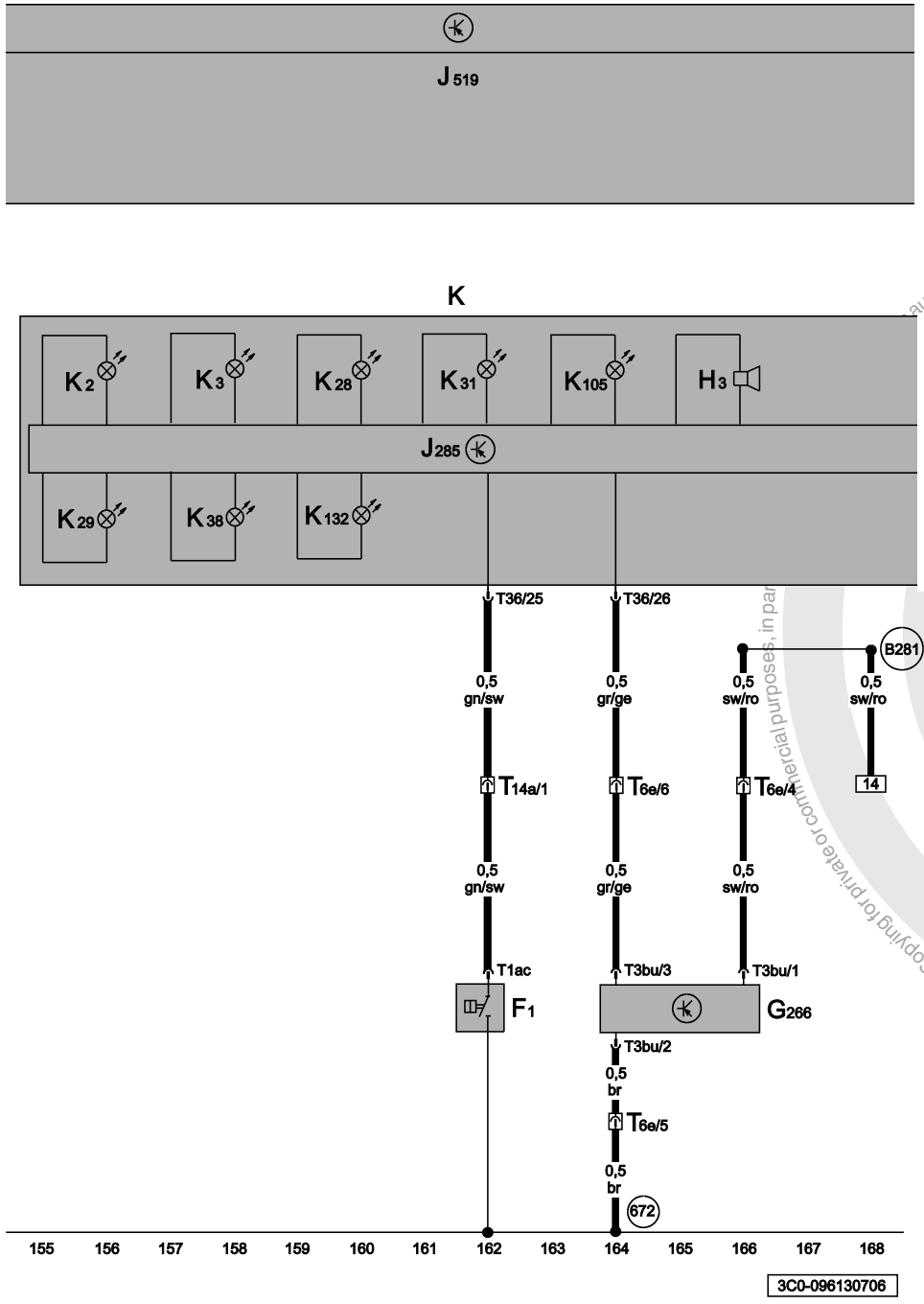


Engine control unit, automatic glow period control unit, glow plugs 1 to 4, data bus diagnostic interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T4da	4-pin connector, black
T10v	10-pin connector, on left of cylinder head
T11b	11-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
673	Earth point 3, on front of left longitudinal member
B383	Connection 1 (drive train CAN bus, high), in main wiring harness
B384	Connection 2 (drive train CAN bus, high), in main wiring harness
B390	Connection 1 (drive train CAN bus, low), in main wiring harness
B391	Connection 2 (drive train CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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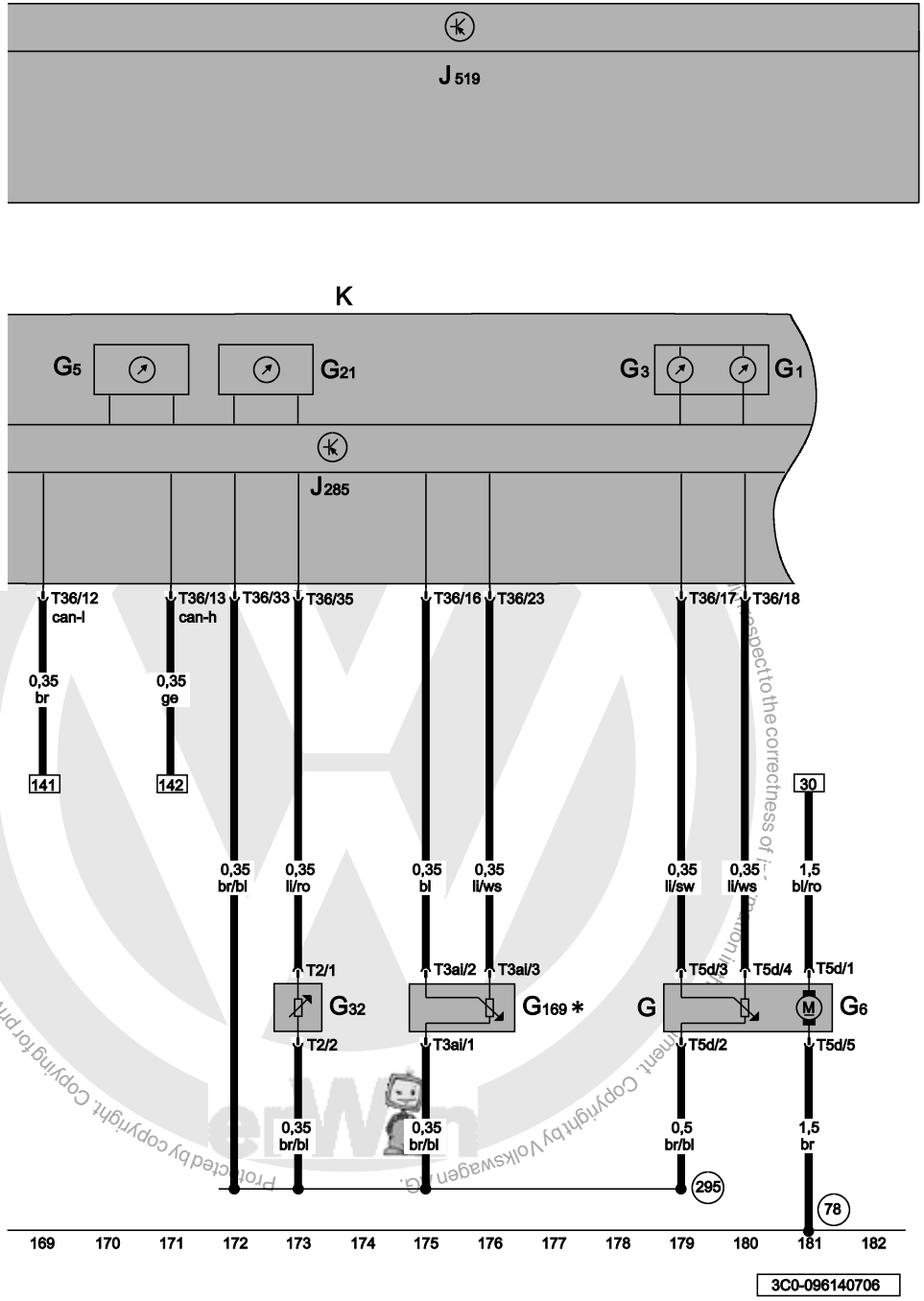


Dash panel insert, warning lamps, oil pressure switch, buzzer or gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electric power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point, electrical steering, in engine compartment
T14a	14-pin connector, black, coupling point 1 in left engine compartment
T36	36-pin connector
672	Earth point 2, on front of left longitudinal member
B281	Positive connection 5 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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li	=	purple
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Dash panel insert, rev. counter, speedometer, coolant temperature gauge, fuel system pressurisation pump, fuel gauge

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	for models with four-wheel drive only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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Cigarette lighter and 12 V sockets

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

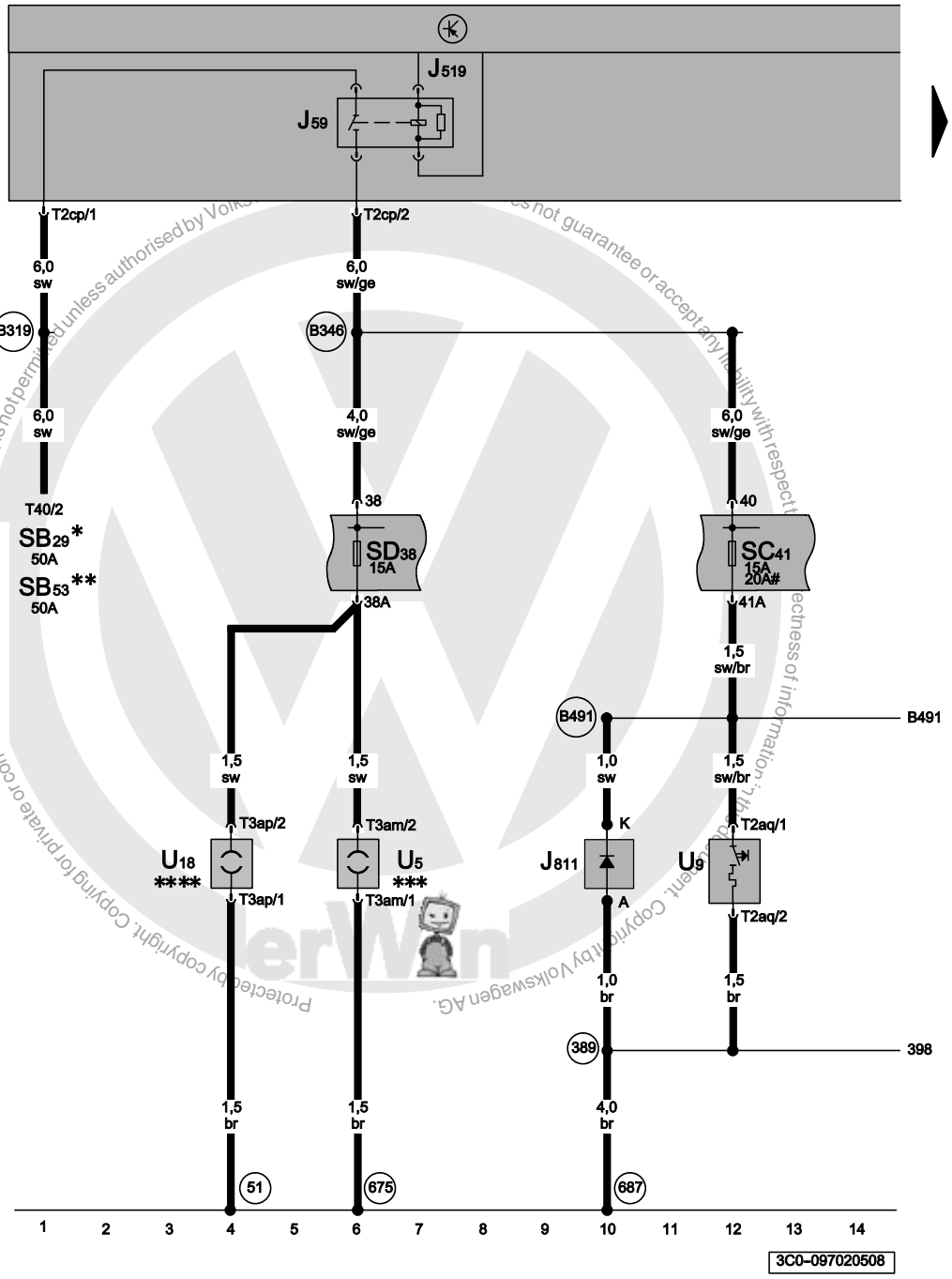
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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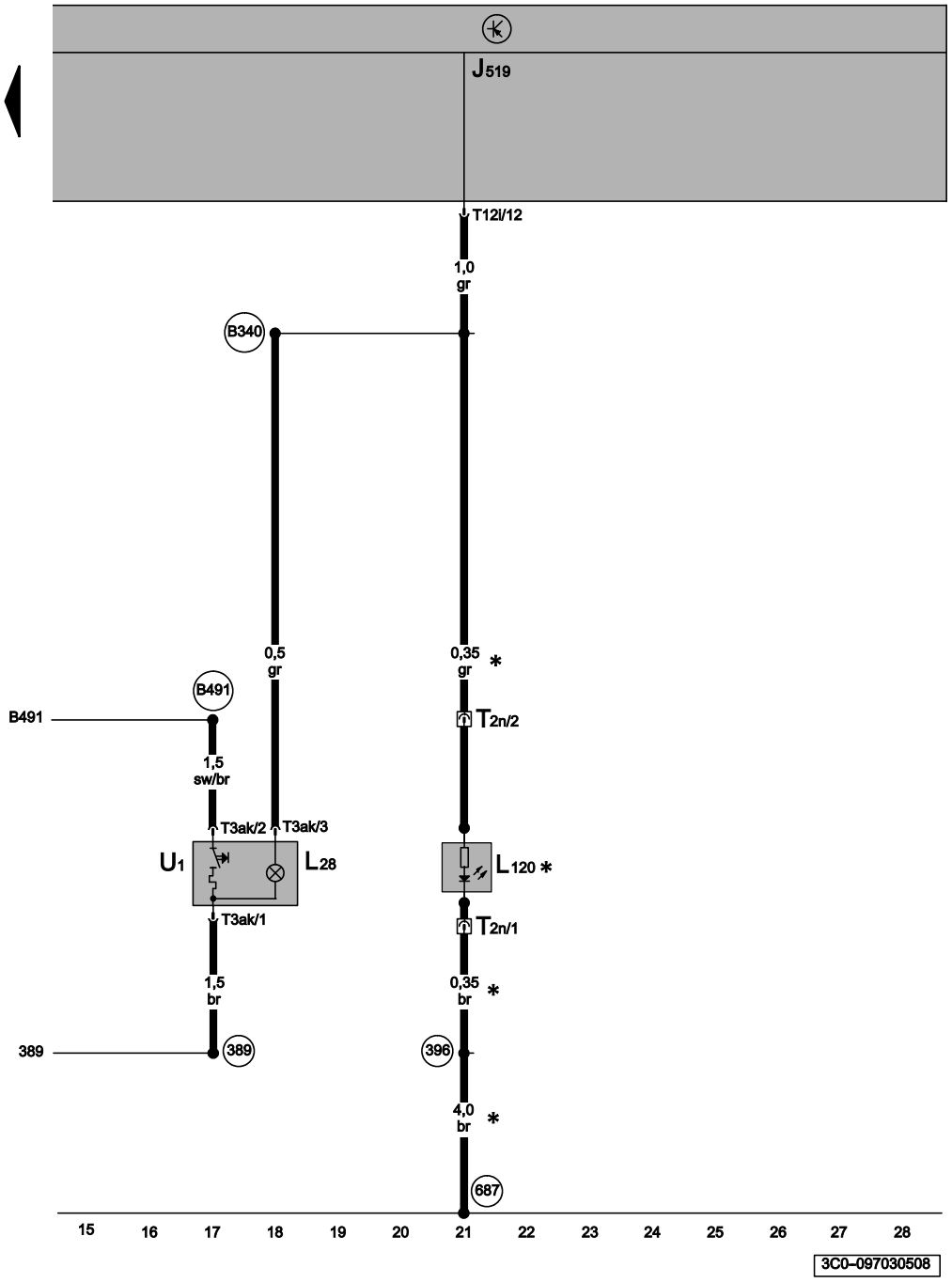


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

12 V sockets, cigarette lighter, blocking diode 2

J59	X-contact relief relay
J519	Onboard supply control unit
J811	Blocking diode 2
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC41	Fuse 41 on fuse holder C
SD38	Fuse 38 on fuse holder D
T2aq	2-pin connector
T2cp	2-pin connector
T3am	3-pin connector
T3ap	3-pin connector
T40	40-pin connector, on E-box
U5	12 V socket
U9	Rear cigarette lighter
U18	12 V socket 2
51	Earth point, on right in luggage compartment
389	Earth connection 24, in main wiring harness
675	Earth point 2, on right in luggage compartment
687	Earth point 1, on centre tunnel
B319	Connection 5 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B491	Positive connection (75), in interior wiring harness
*	Only models with E-box Low
**	Only models with E-box High
***	Only saloon
****	Only Variant
#	Applicable from November 2006

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Cigarette lighter, storage compartment illumination bulb

J519	Onboard supply control unit
L28	Cigarette lighter illumination bulb
L120	Storage compartment illumination bulb
T2n	2-pin connector, centre console
T3ak	3-pin connector
T12i	12-pin connector, black
U1	Cigarette lighter
389	Earth connection 24, in main wiring harness
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B340	Connection 1 (58d), in main wiring harness
B491	Positive connection (75), in interior wiring harness
*	Applicable up to October 2006

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Cigarette lighter and 12 V sockets

from November 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

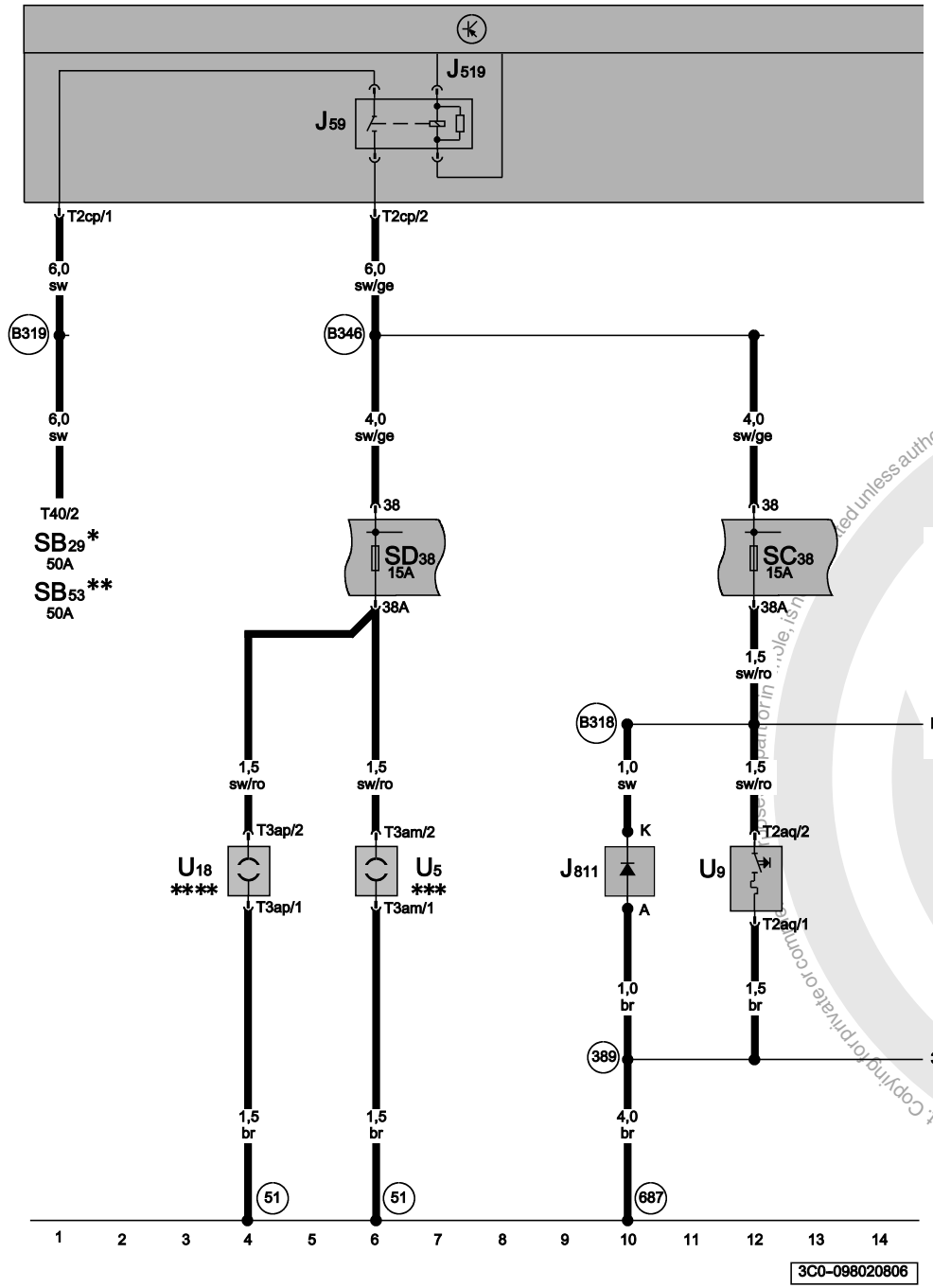
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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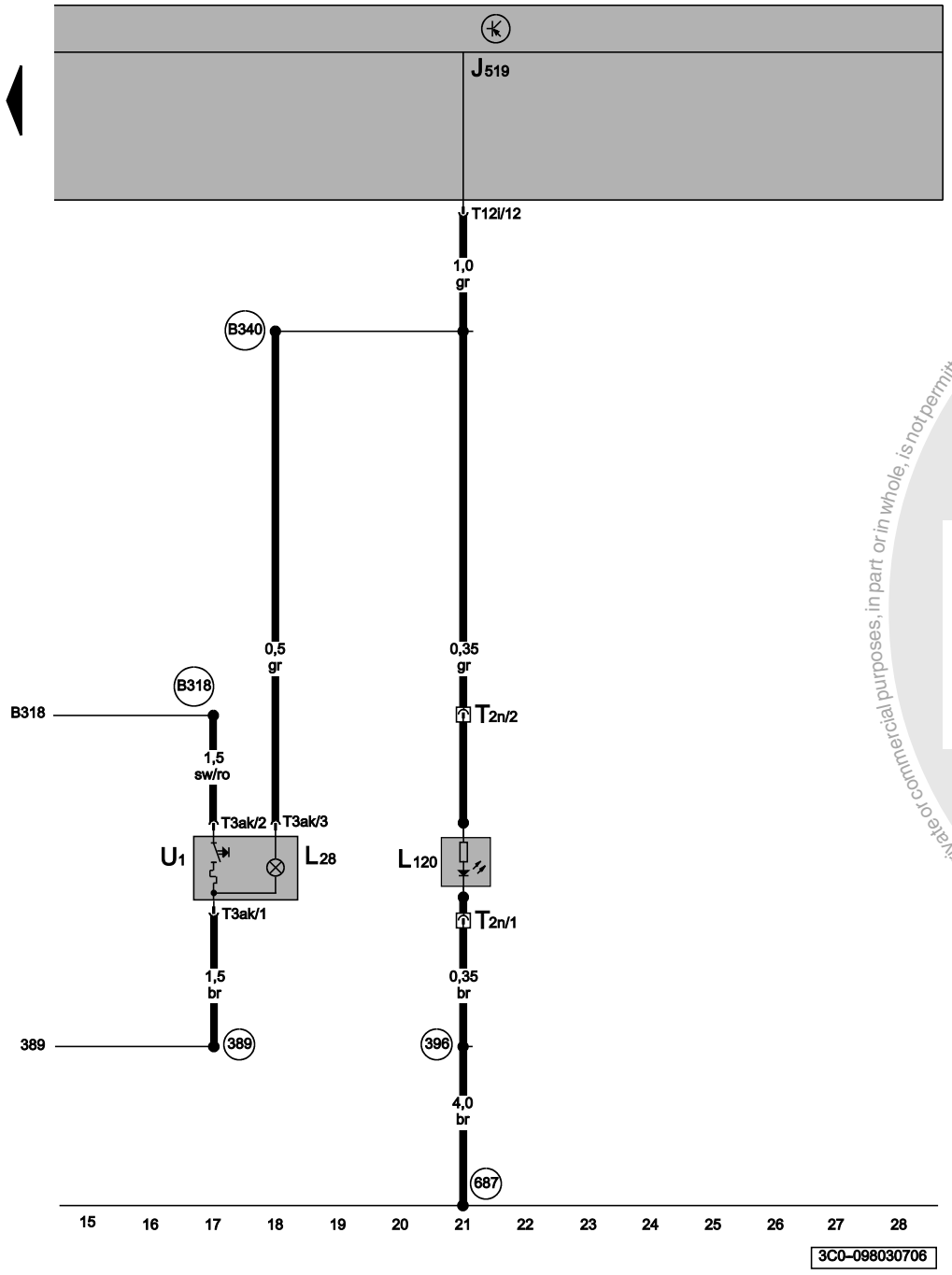


12 V sockets, cigarette lighter, blocking diode 2

J59	X-contact relief relay
J519	Onboard supply control unit
J811	Blocking diode 2
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC38	Fuse 38 on fuse holder C
SD38	Fuse 38 on fuse holder D
T2aq	2-pin connector
T2cp	2-pin connector
T3am	3-pin connector
T3ap	3-pin connector
T40	40-pin connector, on electronics box
U5	12 V socket
U9	Rear cigarette lighter
U18	12 V socket 2
51	Earth point, on right in luggage compartment
389	Earth connection 24, in main wiring harness
687	Earth point 1, on centre tunnel
B318	Positive connection 4 (30a), in main wiring harness
B319	Positive connection 5 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
*	fuses in electronics box low
**	fuses in electronics box high
***	only saloon
****	only Variant

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Cigarette lighter, storage compartment illumination bulb

J519	Onboard supply control unit
L28	Cigarette lighter illumination bulb
L120	Storage compartment illumination bulb
T2n	2-pin connector, centre console
T3ak	3-pin connector
T12i	12-pin connector, black
U1	Cigarette lighter
389	Earth connection 24, in main wiring harness
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B318	Positive connection 4 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Cigarette lighter and 12 V sockets

from May 2005

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

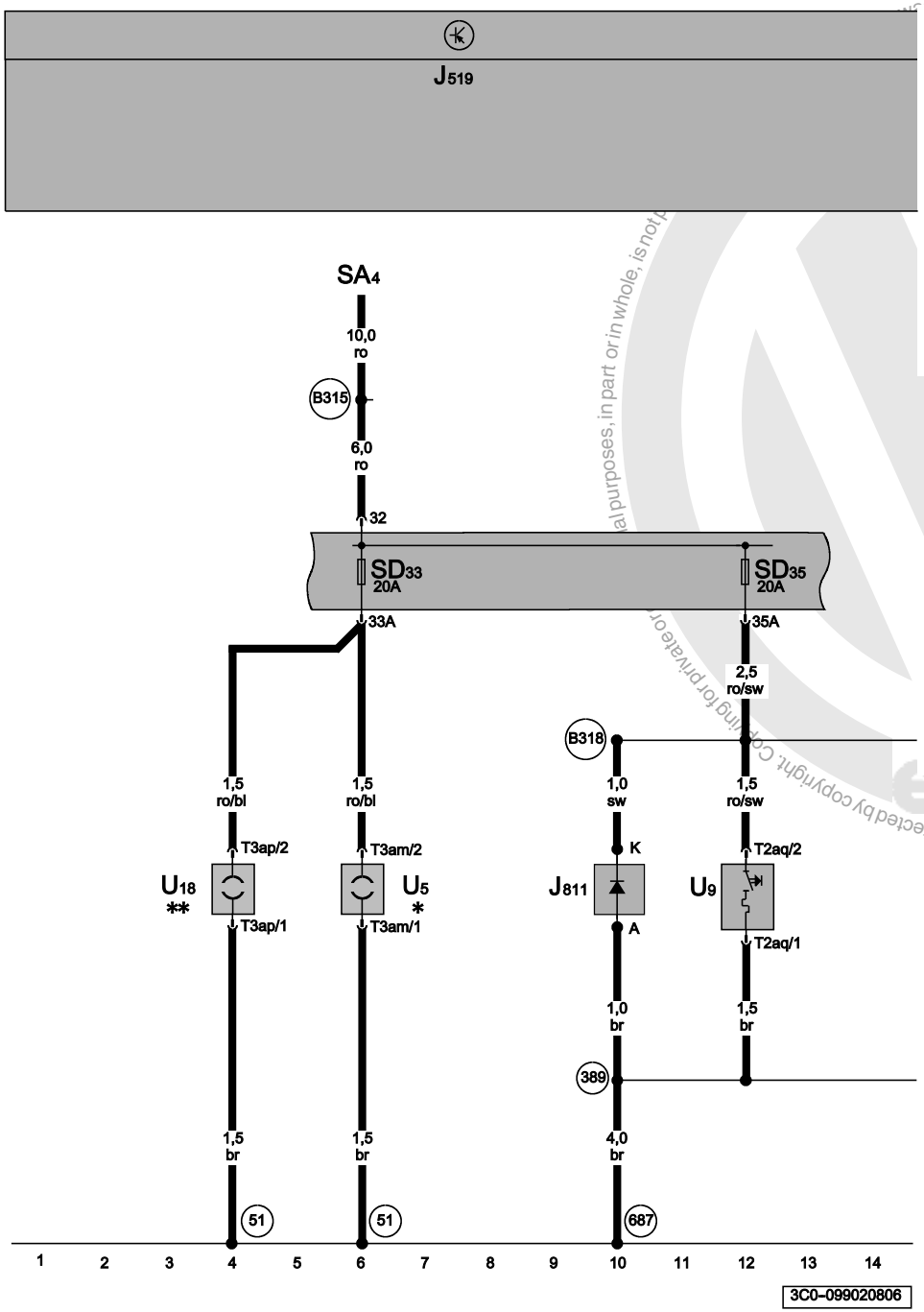
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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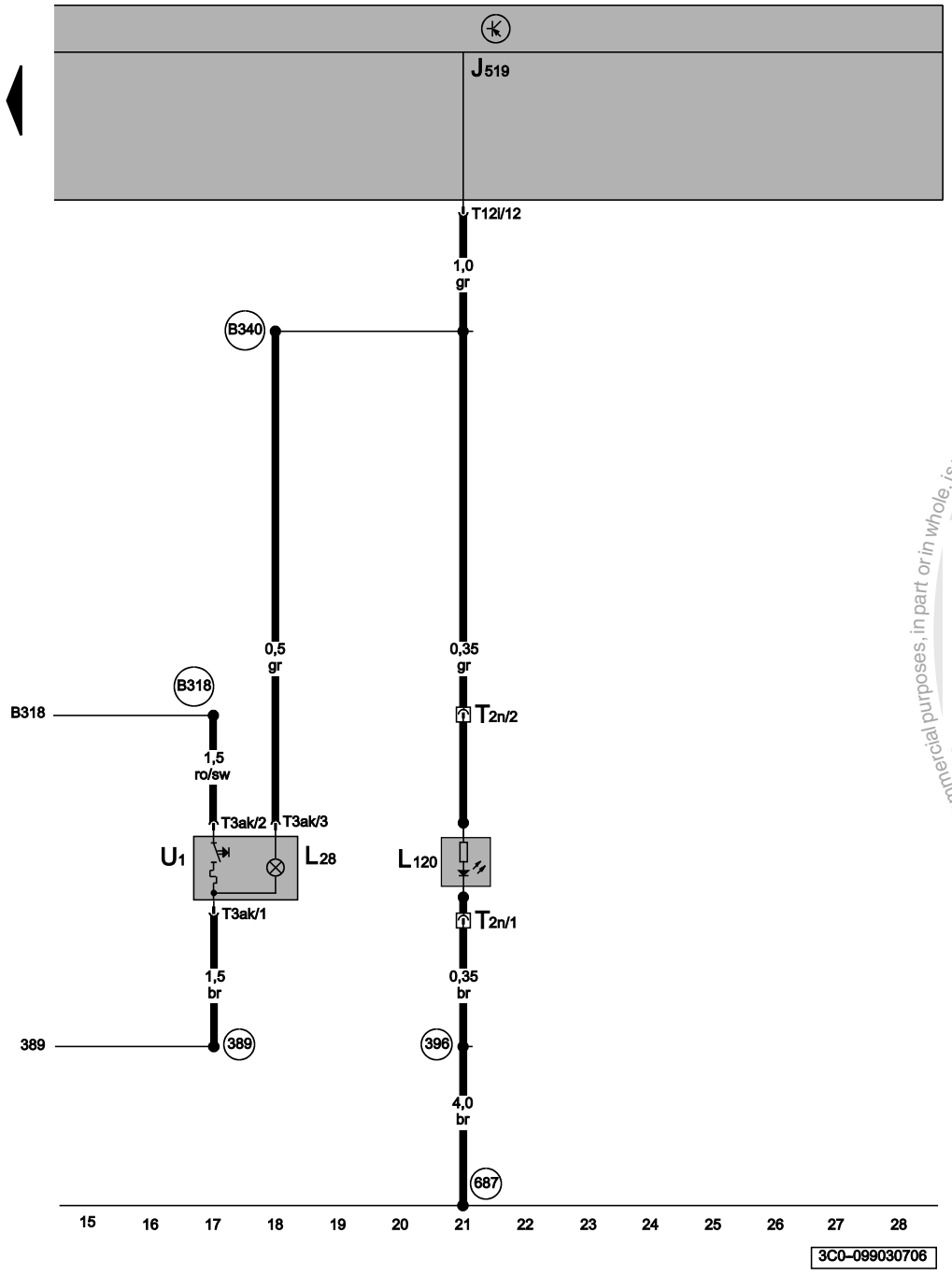


12 V sockets, cigarette lighter, blocking diode 2

J519	Onboard supply control unit
J811	Blocking diode 2
SA4	Fuse 4 on fuse holder A
SD33	Fuse 33 on fuse holder D
SD35	Fuse 35 on fuse holder D
T2aq	2-pin connector
T3am	3-pin connector
T3ap	3-pin connector
U5	12 V socket
U9	Rear cigarette lighter
U18	12 V socket 2
(51)	Earth point, on right in luggage compartment
(389)	Earth connection 24, in main wiring harness
(687)	Earth point 1, on centre tunnel
(B315)	Positive connection 1 (30a), in main wiring harness
(B318)	Positive connection 4 (30a), in main wiring harness
*	only saloon
**	only Variant

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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Cigarette lighter, storage compartment illumination bulb

J519	Onboard supply control unit
L28	Cigarette lighter illumination bulb
L120	Storage compartment illumination bulb
T2n	2-pin connector, centre console
T3ak	3-pin connector
T12i	12-pin connector, black
U1	Cigarette lighter
389	Earth connection 24, in main wiring harness
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B318	Positive connection 4 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness

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3.2 l - Motronic/184 kW, engine code AXZ

From May 2006

3.6 l - Motronic/206 kW, engine code BLV

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

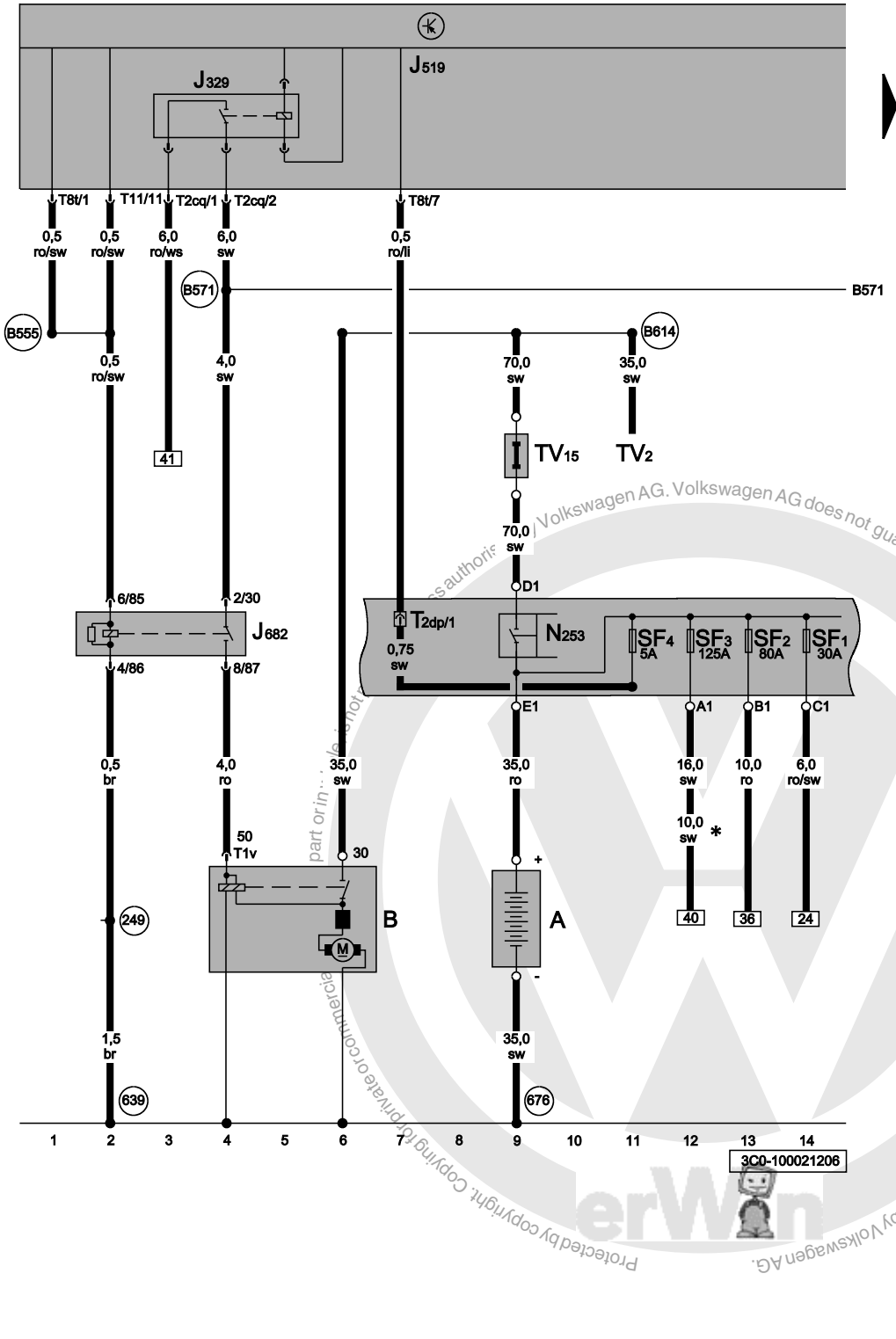
For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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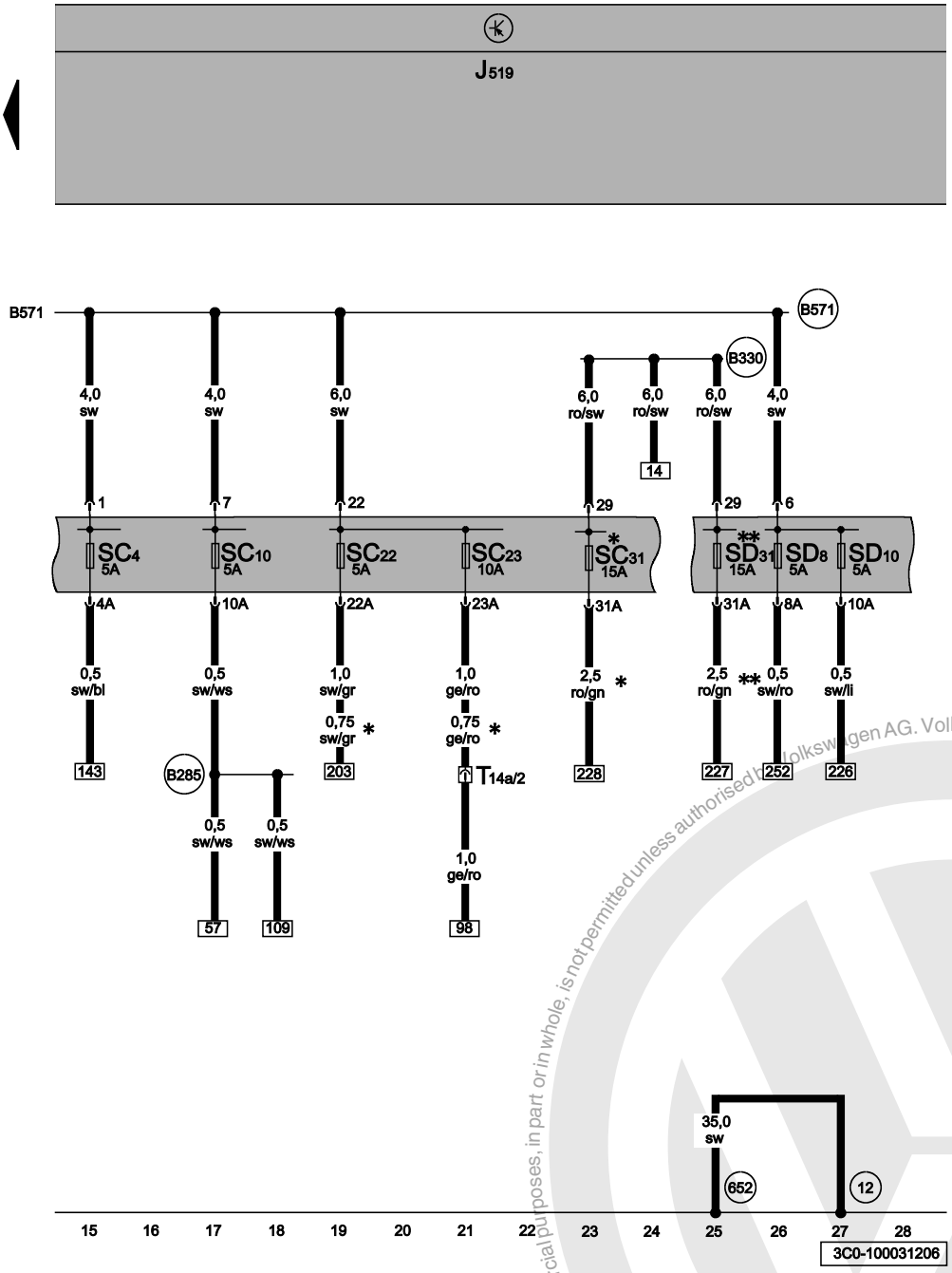
Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay 2, fuses SF



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
N253	Battery isolation igniter
SF1	Fuse 1 in fuse holder F
SF2	Fuse 2 in fuse holder F
SF3	Fuse 3 in fuse holder F
SF4	Fuse 4 in fuse holder F
T1v	Single connector
T2cq	2-pin connector
T2dp	2-pin connector, black, coupling point, in the main fuse box
T8t	8-pin connector
T11	11-pin connector
TV2	Terminal 30 wiring junction
TV15	Wiring connector
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
676	Earth point 2, on left in luggage compartment
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38 in main wiring harness
B614	Connection 23 (30a), in main wiring harness
*	Applicable from November 2006

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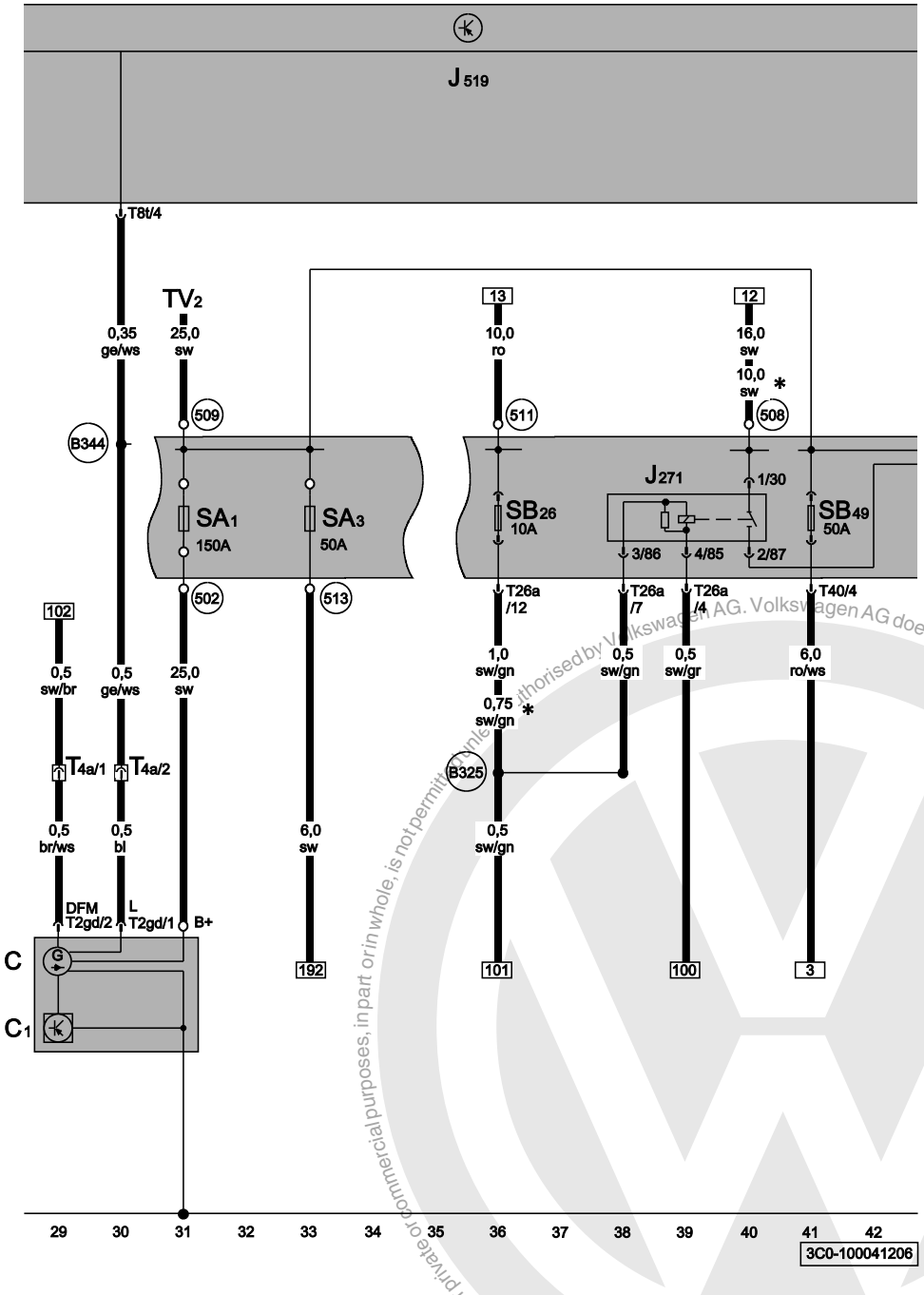
Fuses SC and SD

J519	Onboard supply control unit
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
SD10	Fuse 10 on fuse holder D
SD31	Fuse 31 on fuse holder D
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
12	Earth point, on left in engine compartment
652	Earth point, engine and gearbox earth
B285	Connection 9 (15a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B571	Connection 38 in main wiring harness
*	Applicable from November 2006
**	Applicable to October 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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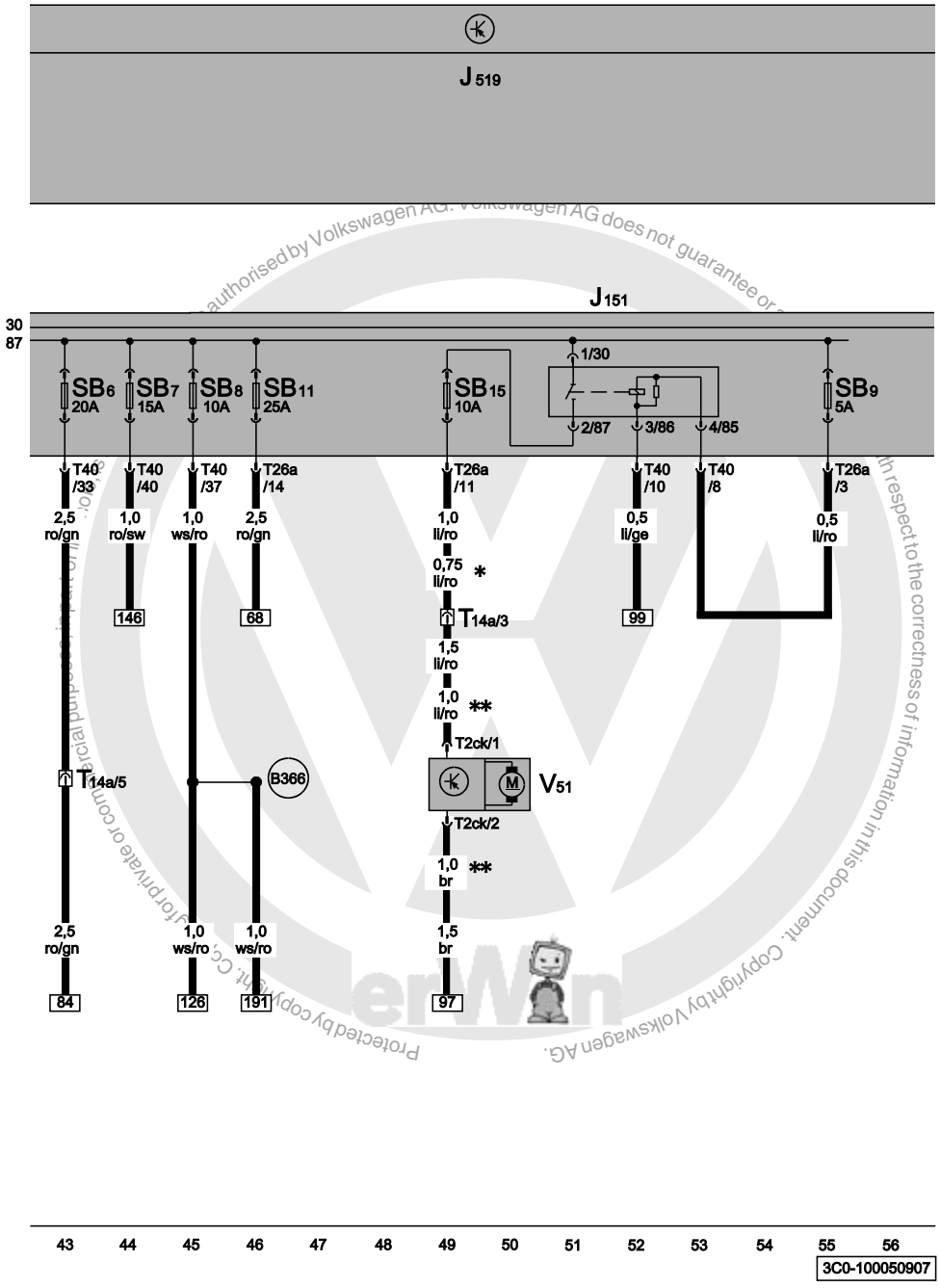
Alternator, Motronic current supply relay, fuses SA and SB



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

C	Alternator
C1	Voltage regulator
J271	Motronic current supply relay, on E-box, on left in engine compartment (100)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB26	Fuse 26 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T26a	26-pin connector, on E-box
T40	40-pin connector, on E-box
TV2	Terminal 30 wiring junction
502	Threaded connection 1 (30a) on relay plate
508	Screw connection (30) on E-box
509	Threaded connection 1 (29) on electrics box
511	Threaded connection 2 (30) on electrics box
513	Threaded connection 3 (30a) on relay plate
B325	Connection 11 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Applicable from November 2006

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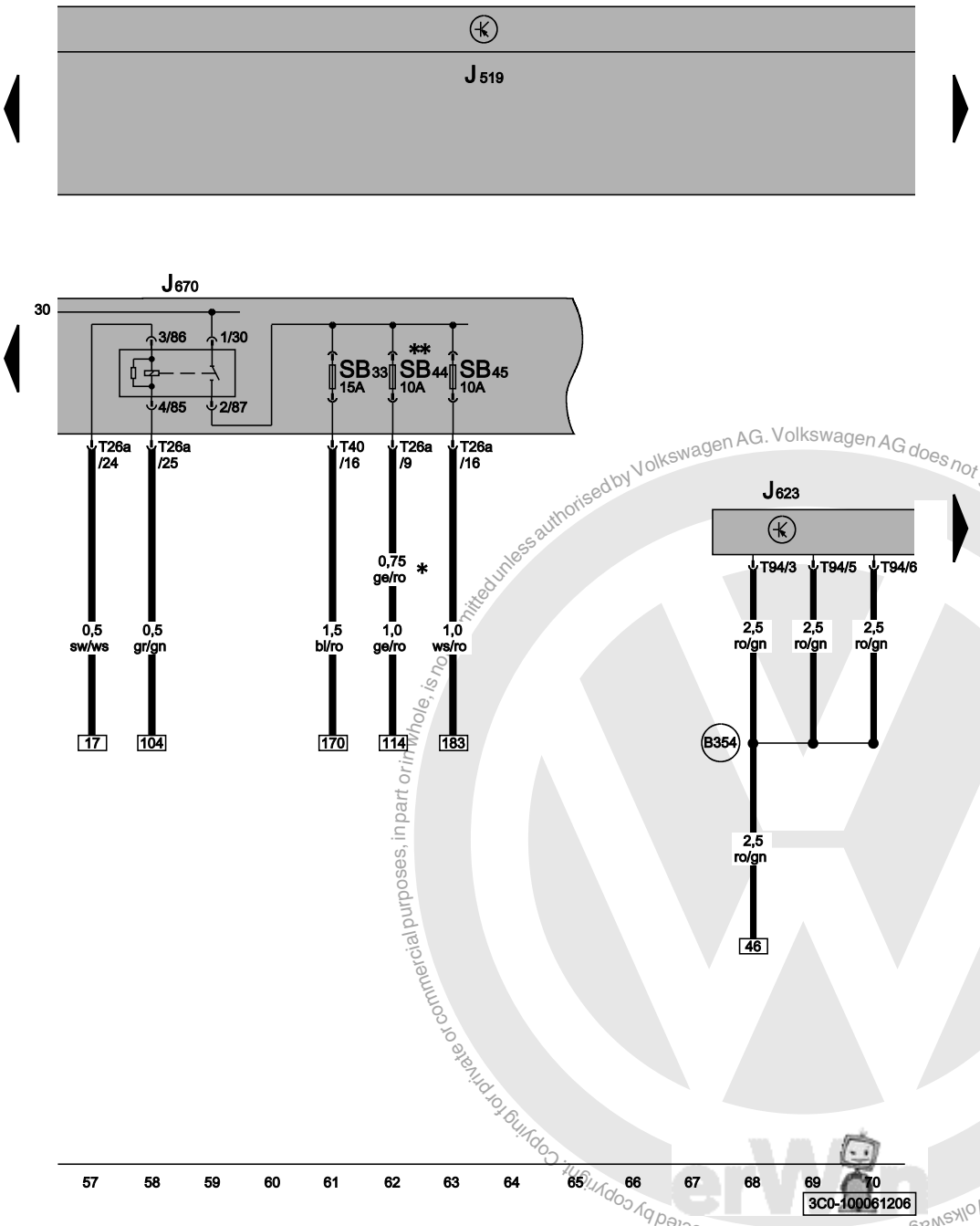


Continued coolant circulation relay, fuses SB, continued coolant circulation pump

J151	Continued coolant circulation relay, on E-box, on left in engine compartment (100)
J519	Onboard supply control unit
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB8	Fuse 8 on fuse holder B
SB9	Fuse 9 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB15	Fuse 15 on fuse holder B
T2ck	2-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T26a	26-pin connector
T40	40-pin connector
V51	Continued coolant circulation pump
B366	Connection 17 (87a), in main wiring harness
*	Applicable from November 2006
**	Applicable from November 2007

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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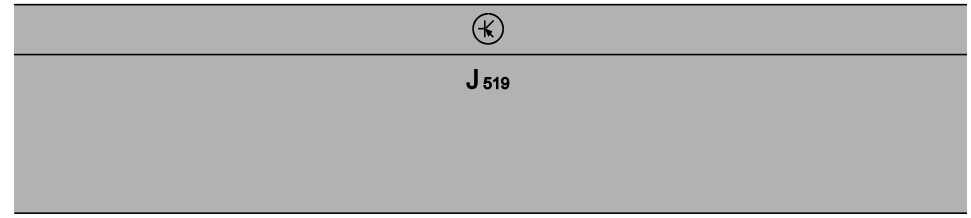


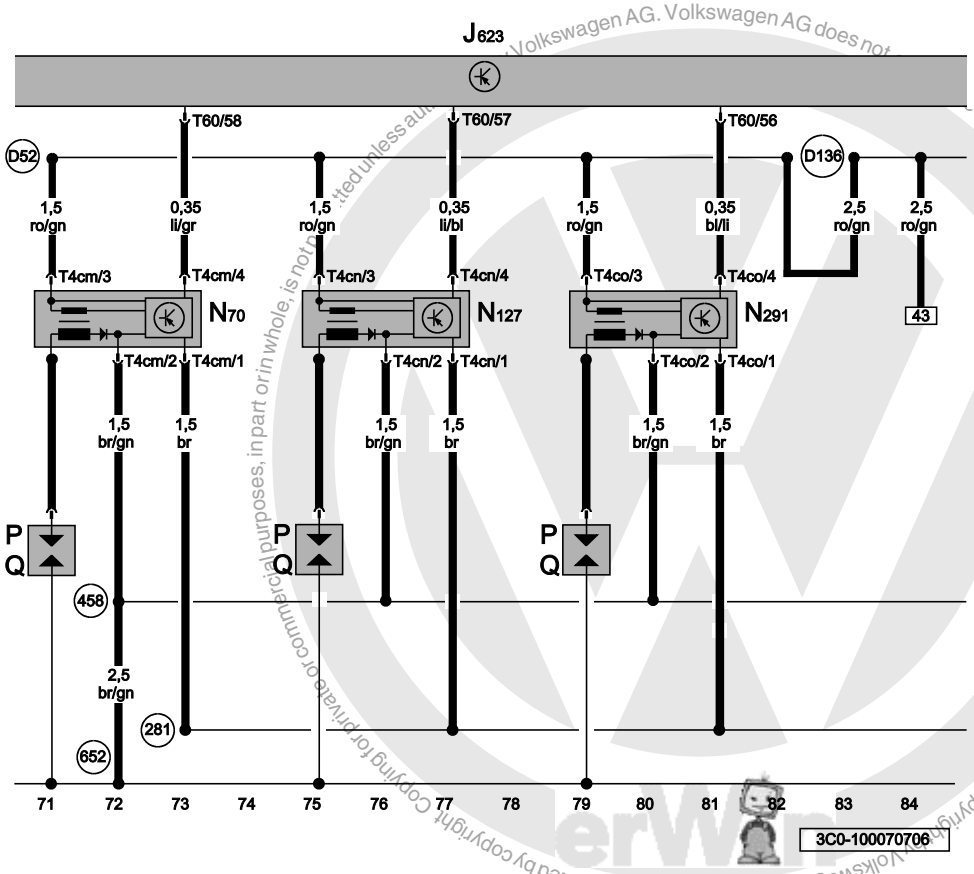
Engine control unit, Motronic current supply relay 2, fuses SB

J519	Onboard supply control unit
J623	Engine control unit
J670	Motronic current supply relay 2, on E-box, on left in engine compartment (167)
SB33	Fuse 33 on fuse holder B
SB44	Fuse 44 on fuse holder B
SB45	Fuse 45 on fuse holder B
T26a	26-pin connector, on E-box
T40	40-pin connector, on E-box
T94	40-pin connector, on E-box
B354	Connection 5 (87a), in main wiring harness
*	Applicable from November 2006
**	Only vehicles with US equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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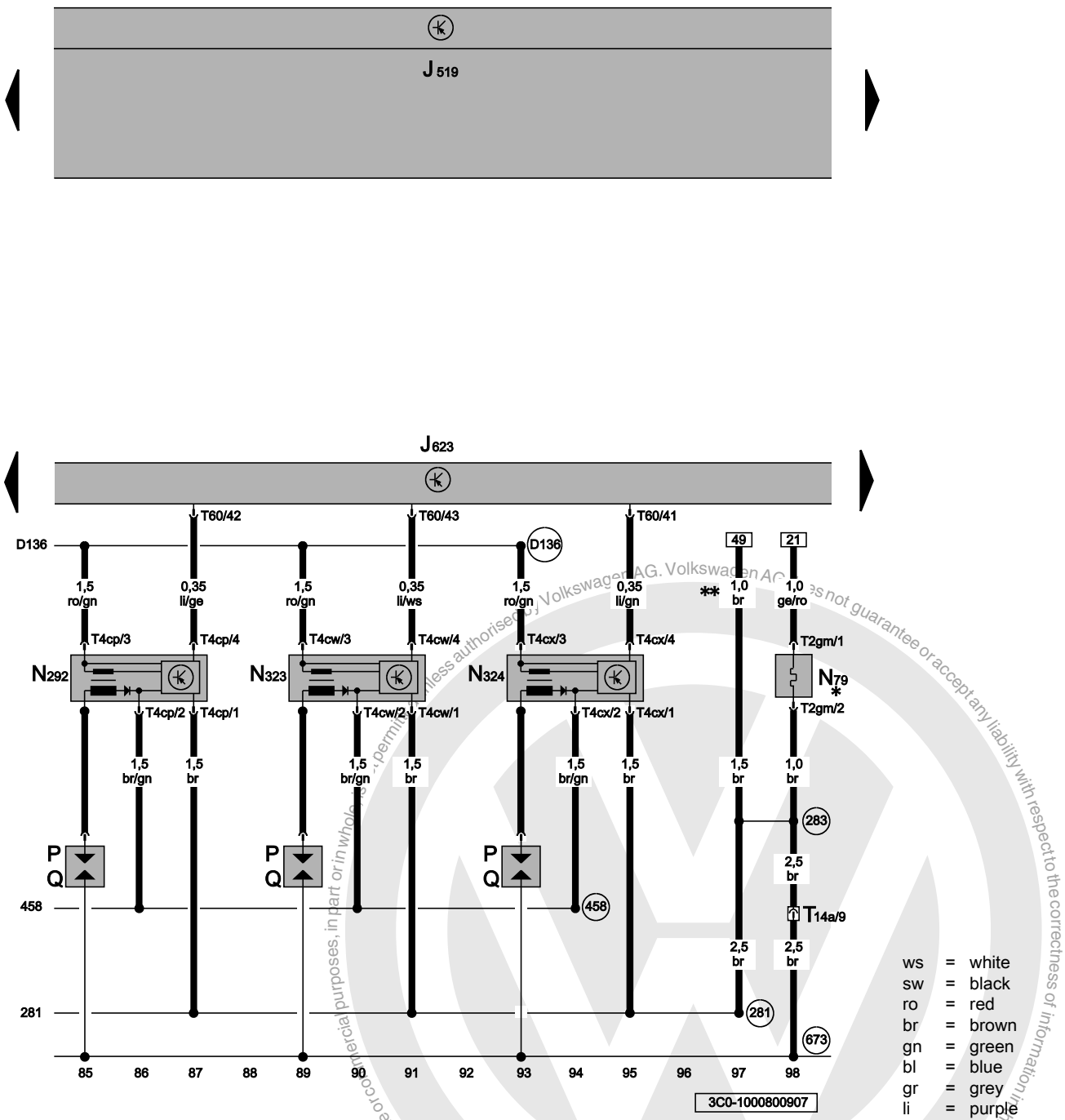
Engine control unit, ignition coils 1 to 3 with output stage, spark plugs, spark plug connectors

J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
P	Spark plug connector
Q	Spark plug
T4cm	4-pin connector
T4cn	4-pin connector
T4co	4-pin connector
T60	60-pin connector
281	Earth point 1, engine prewiring harness
458	Earth point 3, engine prewiring harness
652	Earth point, engine and gearbox earth
D52	Positive connection (15a), in engine compartment wiring harness
D136	Positive connection 2 (15a) in engine compartment wiring harness

ws	=	white
sw	=	black
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bl	=	blue
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Engine control unit, heater element for crankcase breather, ignition coil 4-6 with output stage, spark plugs, spark plug connector



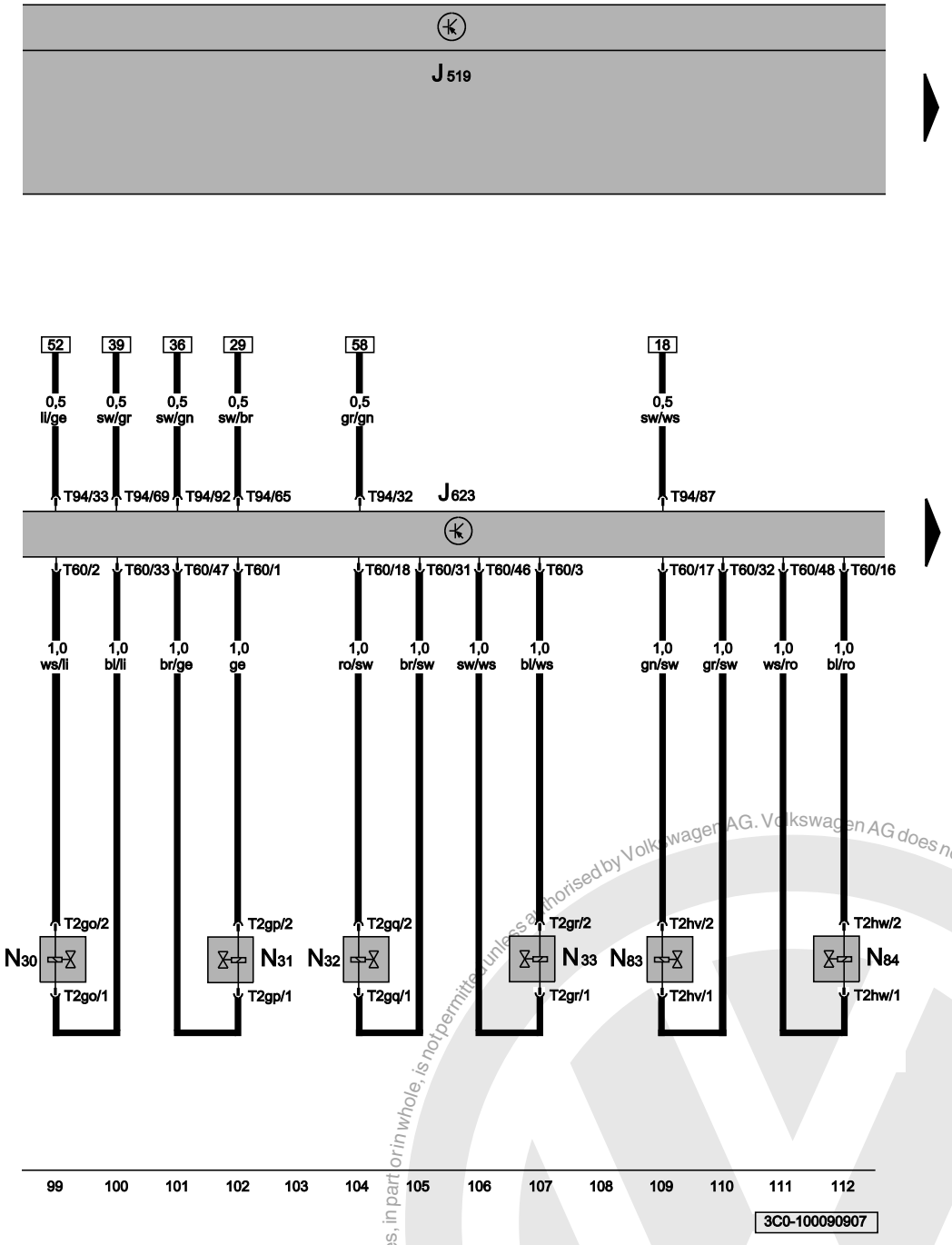
ws	=	white
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J519	Onboard supply control unit
J623	Engine control unit
N79	Heater element for crankcase breather
N292	Ignition coil 4 with output stage
N323	Ignition coil 5 with output stage
N324	Ignition coil 6 with output stage
P	Spark plug connector
Q	Spark plug
T2gm	2-pin connector
T4cp	4-pin connector
T4cw	4-pin connector
T4cx	4-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
281	Earth point 1, engine prewiring harness
283	Earth point 2, engine prewiring harness
458	Earth point 3, engine prewiring harness
673	Earth point 3, on front of left longitudinal member
D136	Positive connection 2 (15a) in engine compartment wiring harness
*	Only vehicles for cold climates
**	Applicable from November 2007

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Engine control unit, injectors for cylinders 1-6

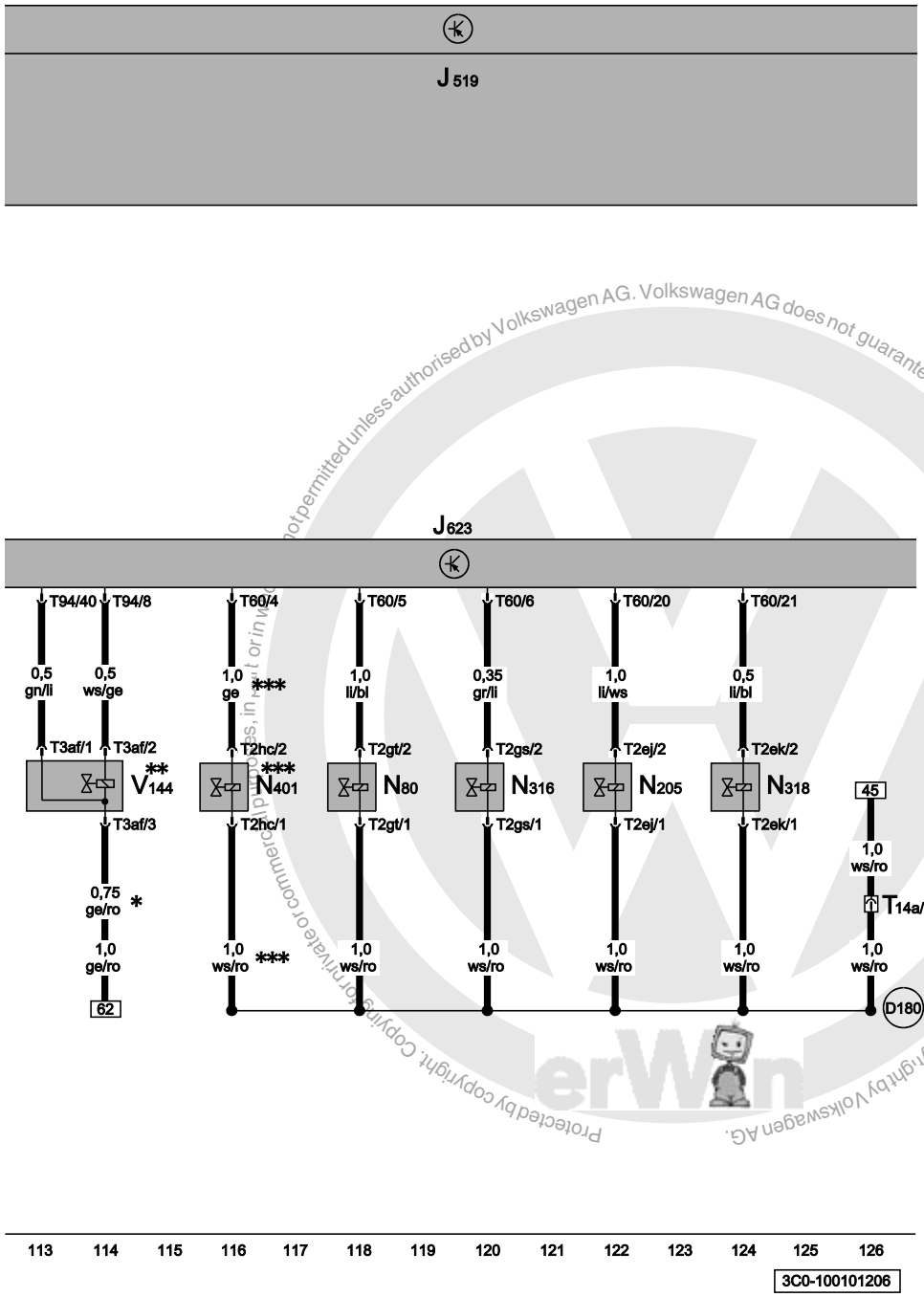
J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
N83	Injector, cylinder 5
N84	Injector, cylinder 6
T2go	2-pin connector
T2gp	2-pin connector
T2gq	2-pin connector
T2gr	2-pin connector
T2hv	2-pin connector
T2hw	2-pin connector
T60	60-pin connector
T94	94-pin connector



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Engine control unit, activated charcoal filter system solenoid valve 1, inlet camshaft control valve 1, intake manifold flap valve, suction jet pump valve

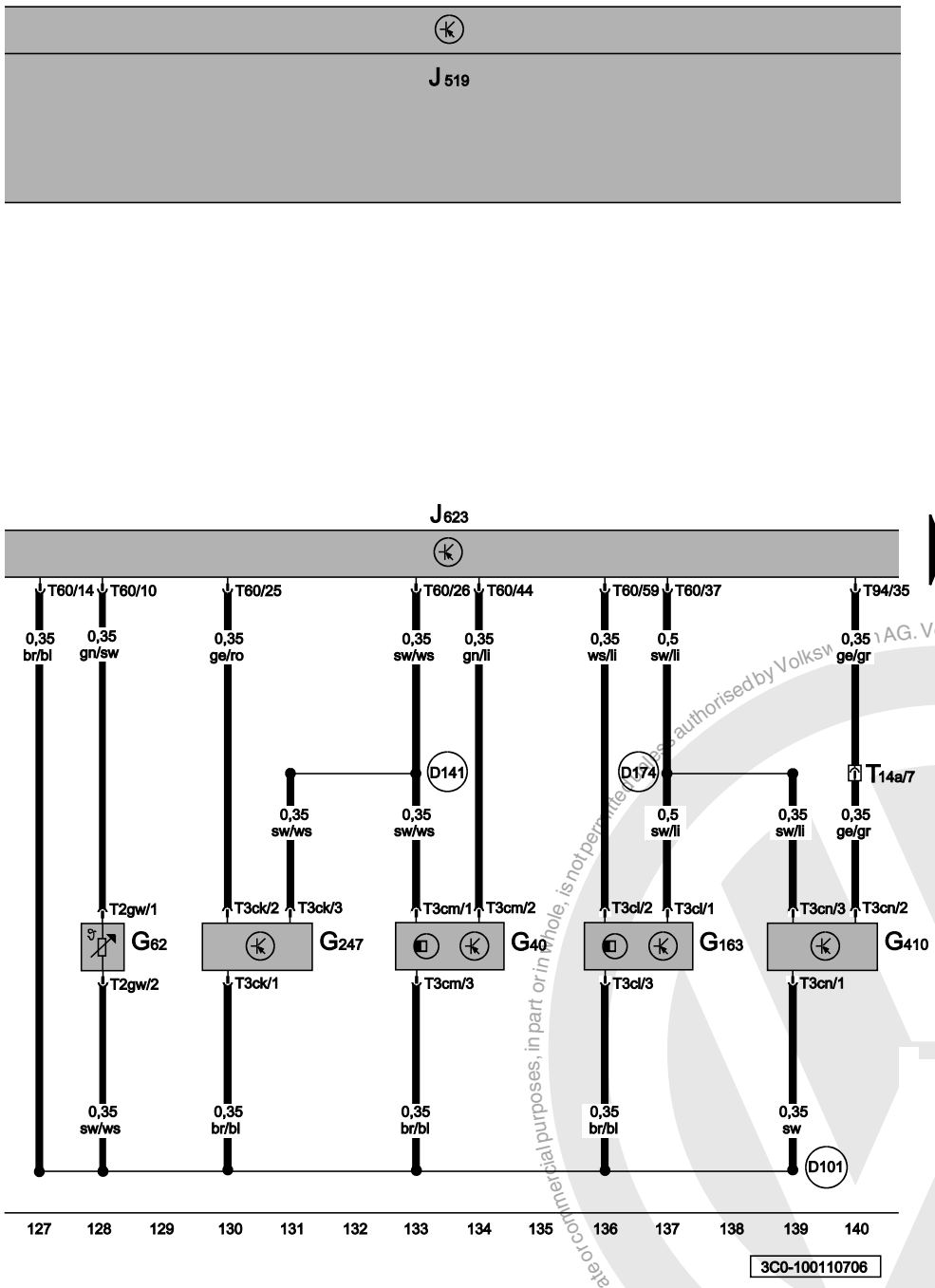


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J519	Onboard supply control unit
J623	Engine control unit
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N316	Intake manifold flap valve
N318	Exhaust camshaft control valve 1
N401	Suction jet pump valve
T2ek	2-pin connector
T2ej	2-pin connector
T2gs	2-pin connector
T2gt	2-pin connector
T2hc	2-pin connector
T3af	3-pin connector, black
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V144	Fuel system diagnostic pump
D180	Connection (87a), in engine compartment wiring harness
*	Applicable from November 2006
**	Only vehicles with US equipment
***	Applicable to October 2006

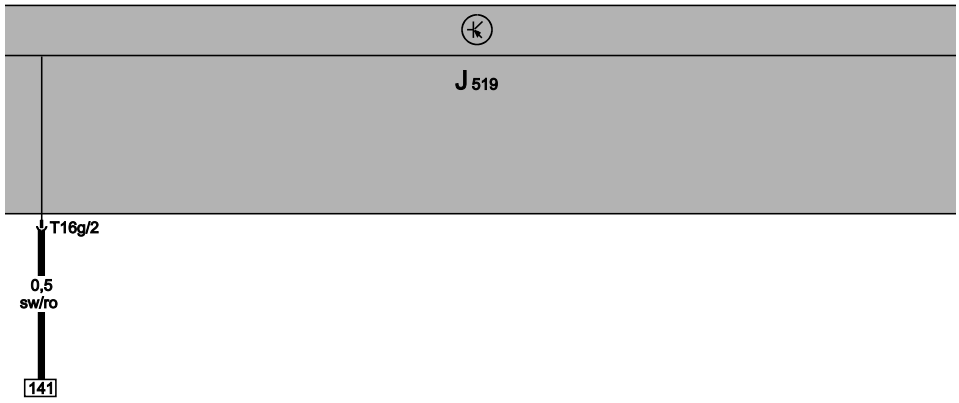
Engine control unit, fuel pressure sender, fuel pressure sender for low-pressure, Hall sender, coolant temperature sender

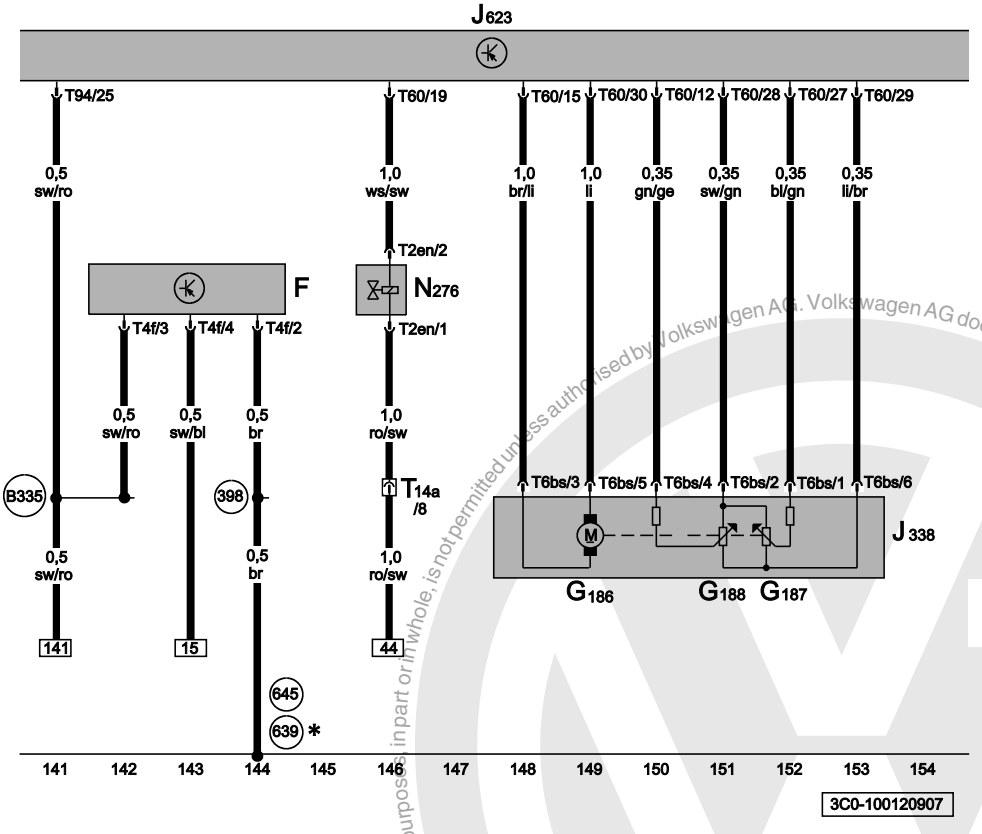


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G40	Hall sender
G62	Coolant temperature sender
G163	Hall sender 2
G247	Fuel pressure sender
G410	Fuel pressure sender for low-pressure
J519	Onboard supply control unit
J623	Engine control unit
T2gw	2-pin connector
T3ck	3-pin connector
T3cl	3-pin connector
T3cm	3-pin connector
T3cn	3-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness
D174	Connection 2 (5V) in engine prewiring harness

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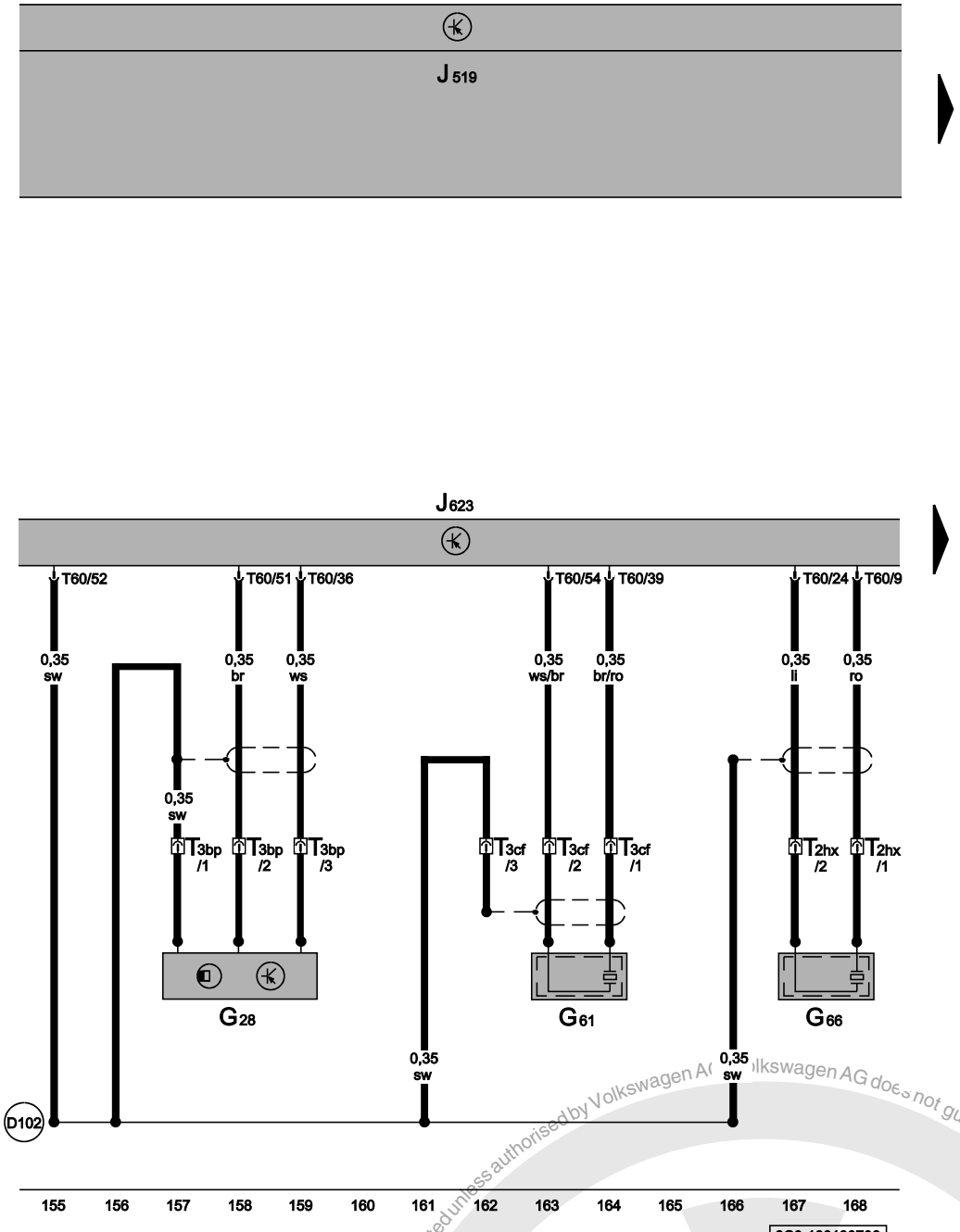
Engine control unit, throttle valve module, fuel pressure regulating valve, brake light switch

F	Brake light switch
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
N276	Fuel pressure regulating valve
T2en	2-pin connector
T4f	4-pin connector
T6bs	6-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T16g	16-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
*	Applicable from November 2006

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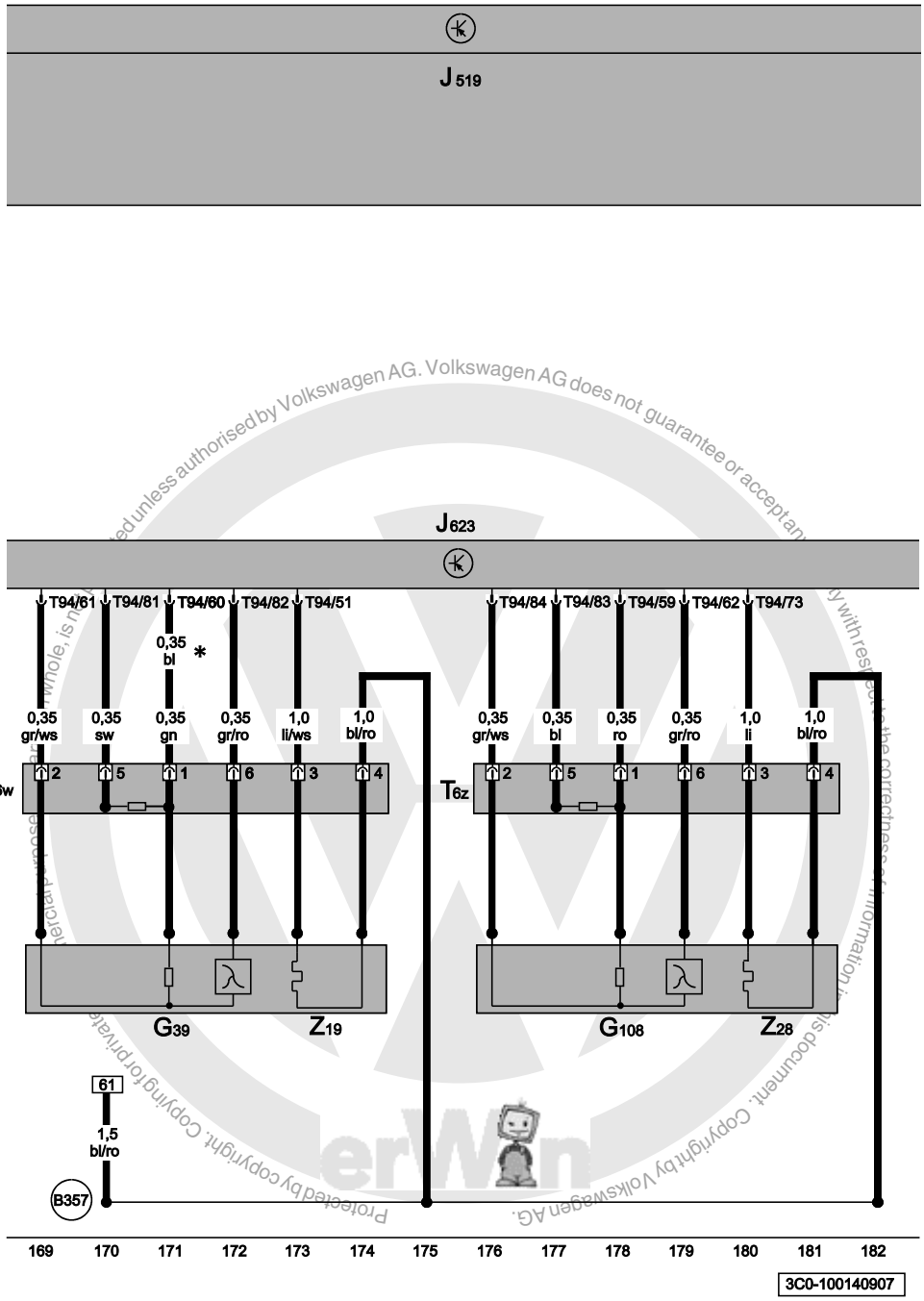
Engine control unit, engine speed sender, knock sensor 1 and 2

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J519	Onboard supply control unit
J623	Engine control unit
T2hx	2-pin connector, black
T3bp	3-pin connector, grey
T3cf	3-pin connector, black
T60	60-pin connector
D102	Connection 2, in engine compartment wiring harness



ws	=	white
sw	=	black
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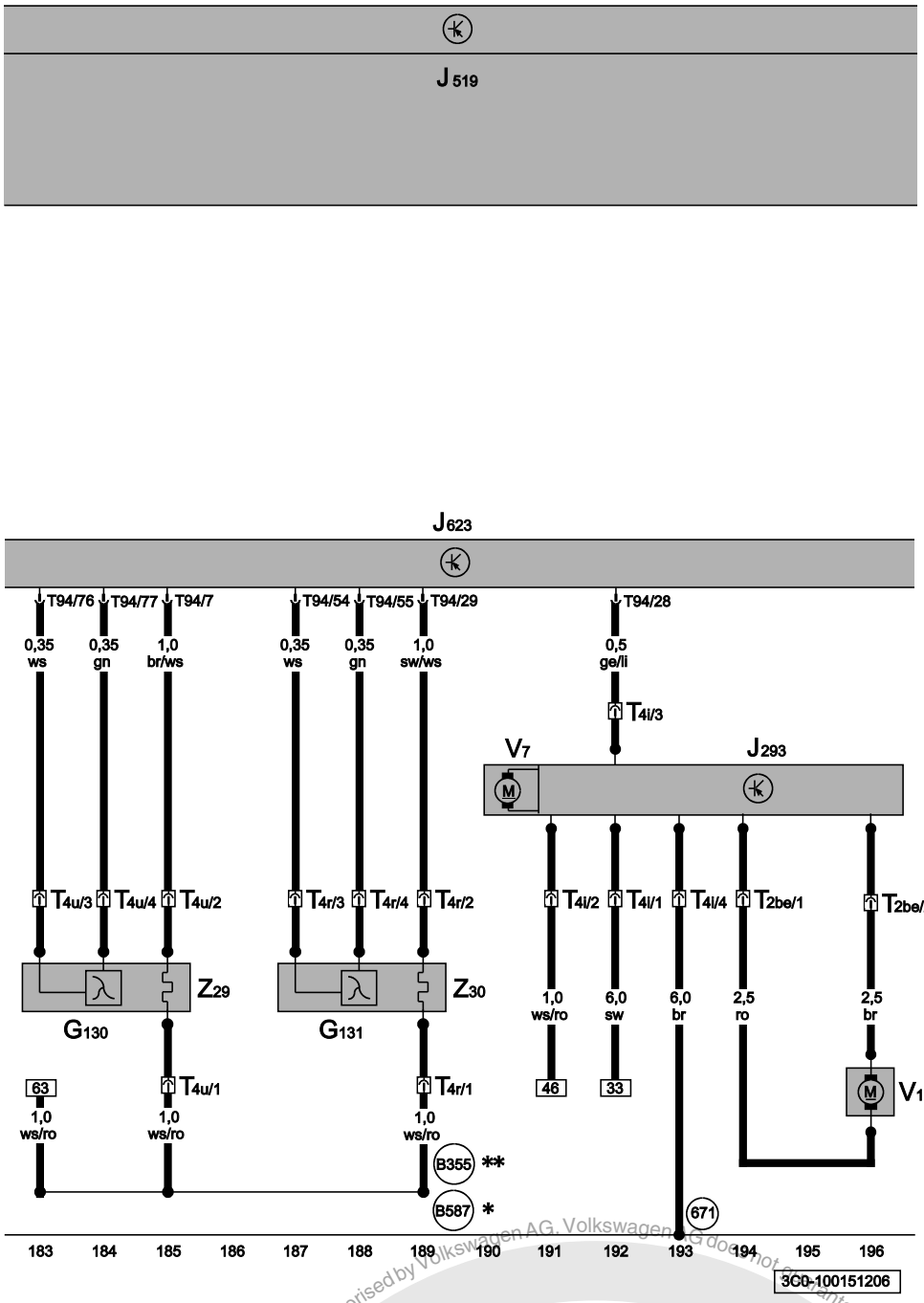


Engine control unit, Lambda probe, Lambda probe heater

G39	Lambda probe
G108	Lambda probe 2
J519	Onboard supply control unit
J623	Engine control unit
T6w	6-pin connector, black, coupling point for Lambda probe
T6z	6-pin connector, black, coupling point for Lambda probe
T94	94-pin connector
Z19	Lambda probe heater
Z28	Lambda probe heater 2
B357	Connection 8 (87a), in main wiring harness
*	Applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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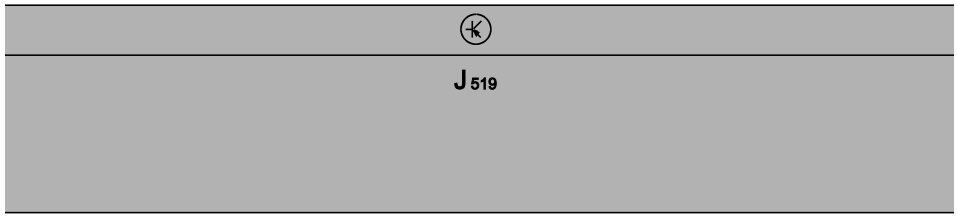
Engine control unit, Lambda probe after catalytic converter, radiator fan

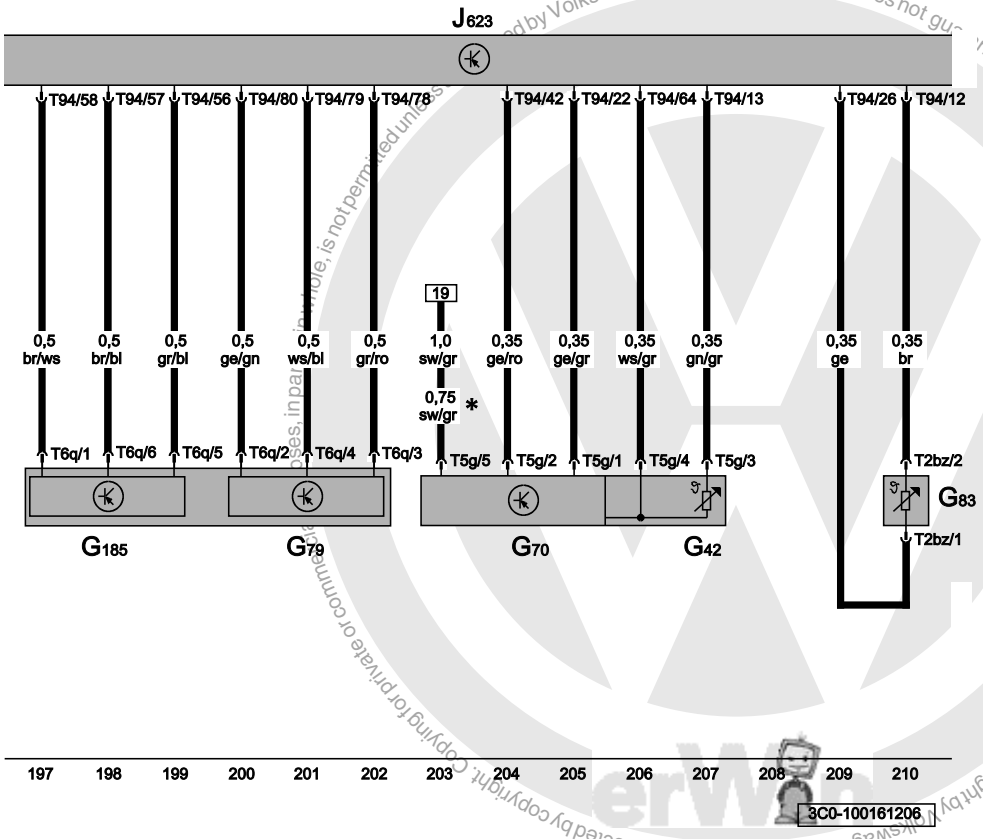
G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter
J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
T2be	2-pin connector, on lock carrier
T4i	4-pin connector, black, coupling point radiator fan on centre lock carrier
T4r	4-pin connector, connector point Lambda probe
T4u	4-pin connector, connector point Lambda probe
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
671	Earth point 1, on front of left longitudinal member
B355	Connection 6 (87a), in main wiring harness
B587	Positive connection 7 (87a), in interior wiring harness
*	Applicable from November 2006
**	Applicable to October 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Engine control unit, intake air temperature sender, air mass meter, accelerator position sender, radiator outlet coolant temperature sender

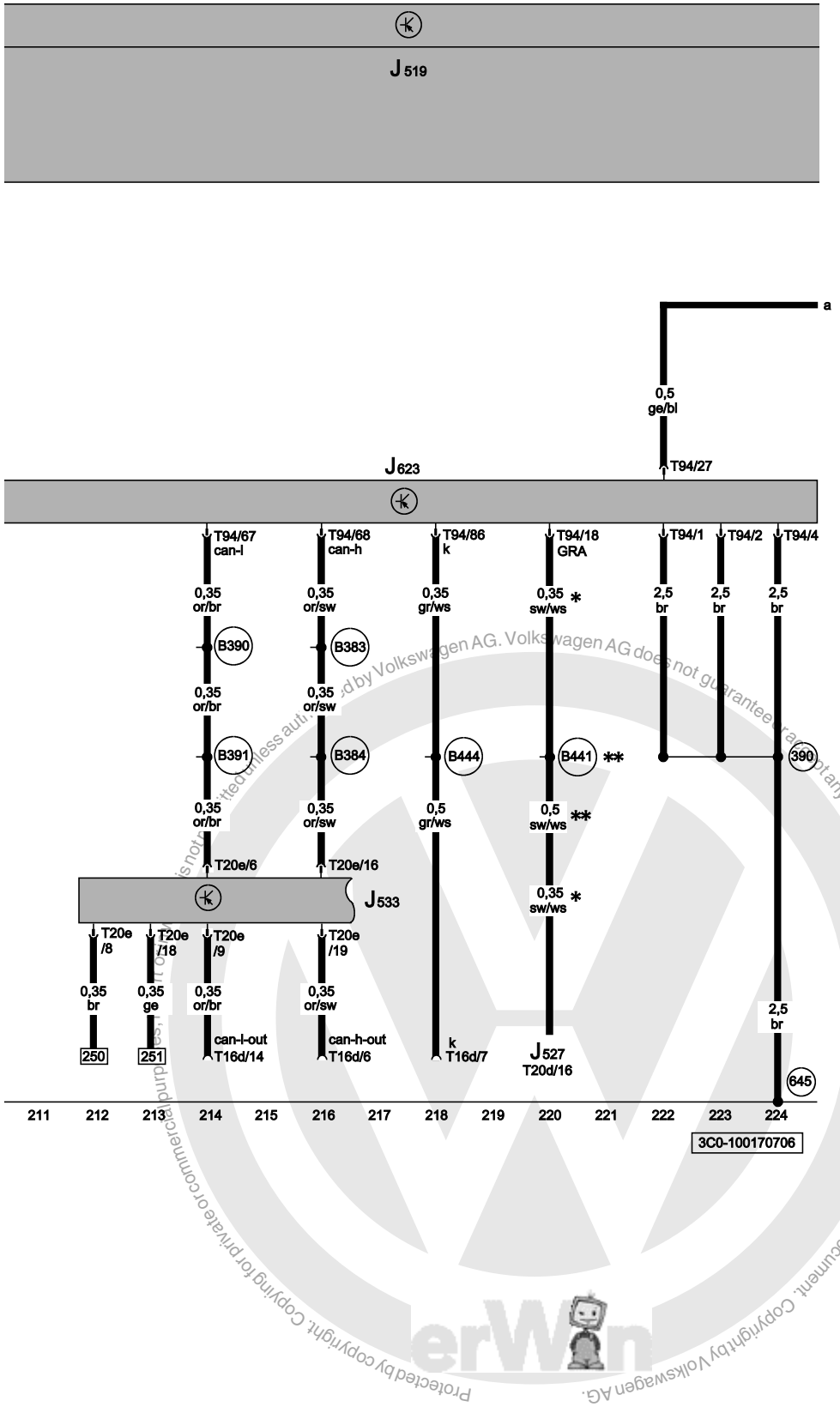




ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

G42	Intake air temperature sender
G70	Air mass meter
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector
T5g	5-pin connector
T6q	6-pin connector
T94	94-pin connector
*	Applicable from November 2006

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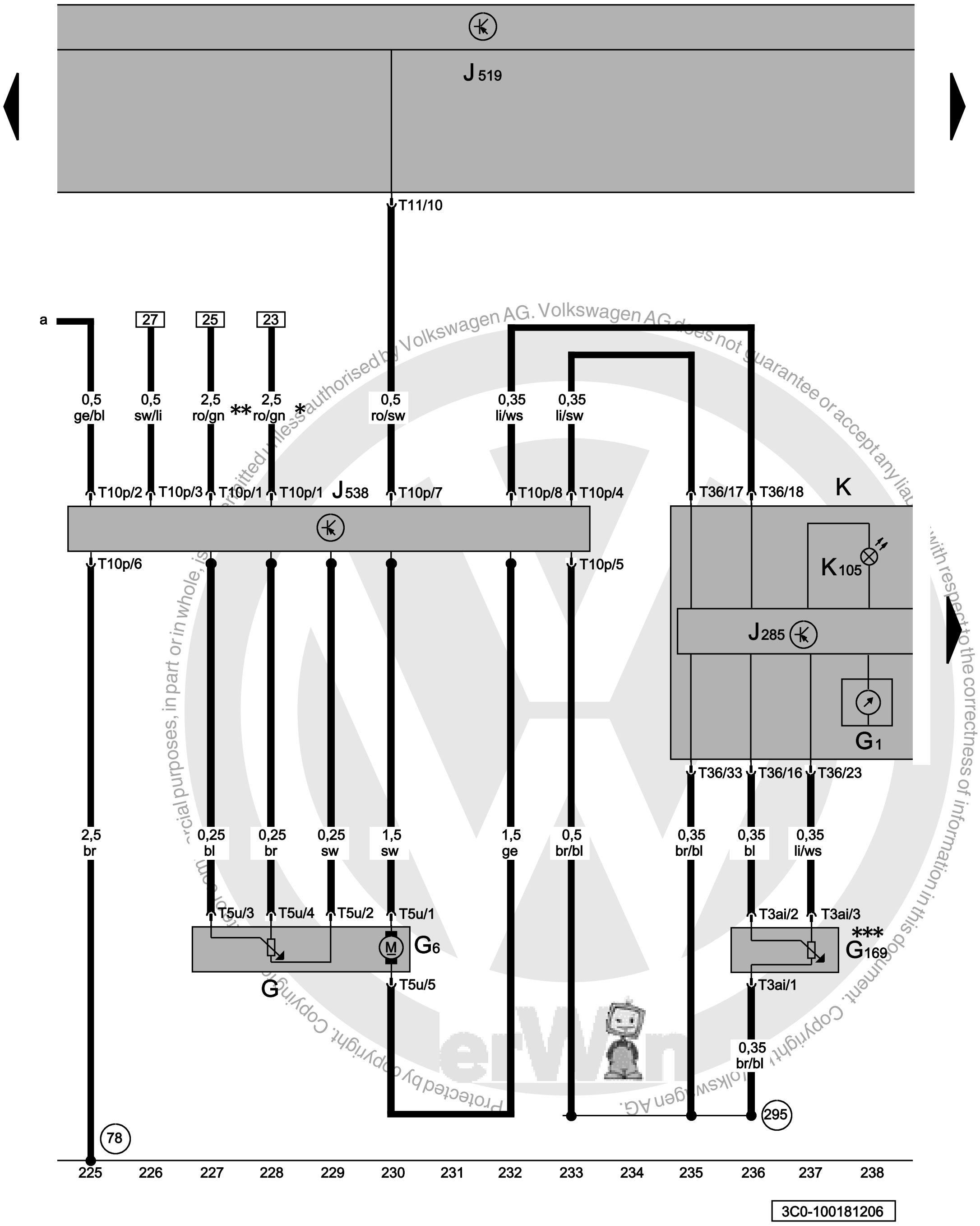


Engine control unit, data bus diagnostic interface, self-diagnosis connection

J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
J623	Engine control unit
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T20d	20-pin connector
T94	94-pin connector
390	Earth connection 25, in main wiring harness
645	Earth point 1, on bulkhead
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	Only on vehicles with CCS
**	Only vehicles with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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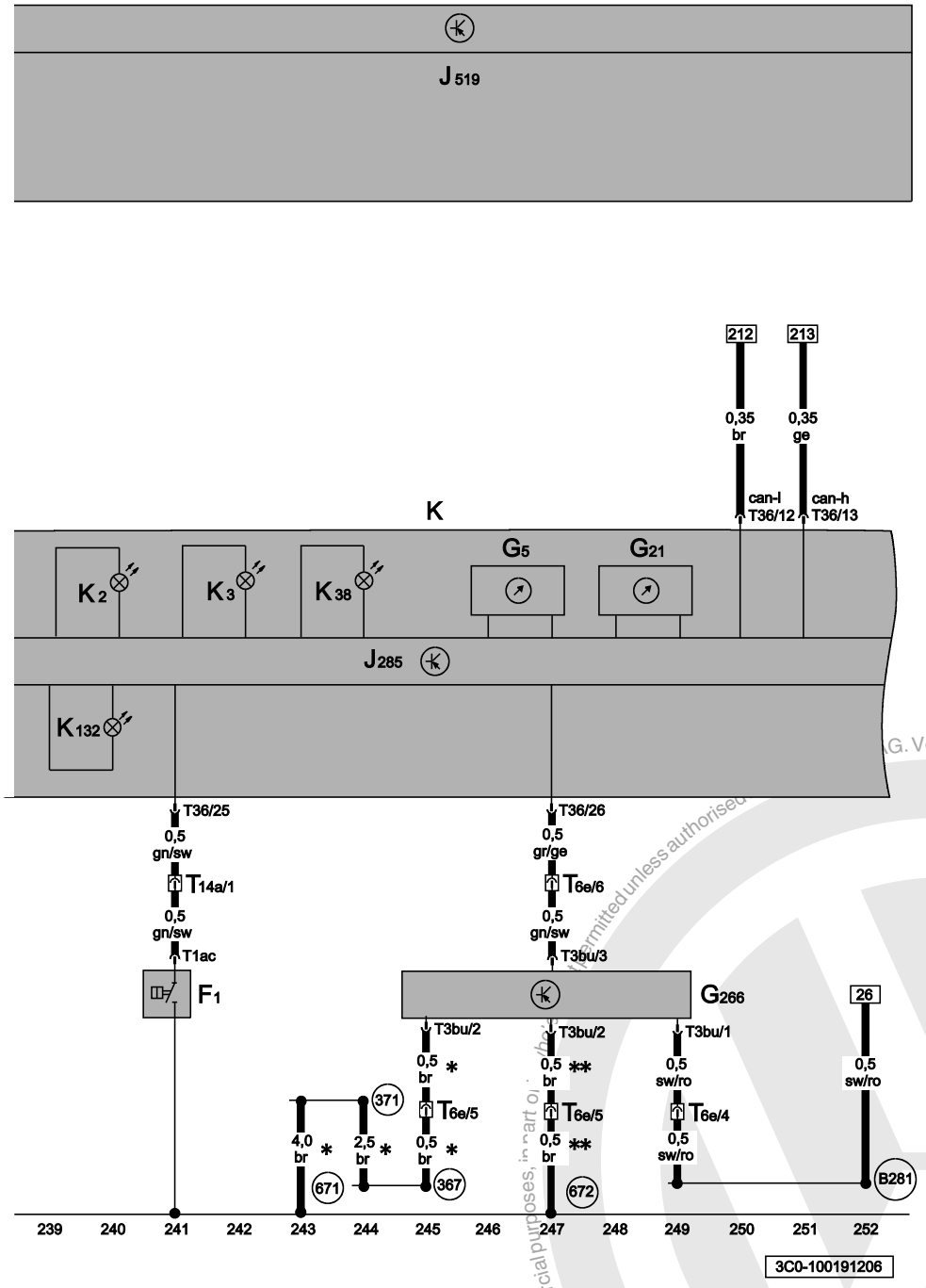


Fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G6	Fuel system pressurisation pump
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J538	Fuel pump control unit
K	Dash panel insert
K105	Reserve fuel warning lamp
T3ai	3-pin connector
T5u	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
*	Applicable from November 2006
**	Applicable to October 2006
***	Only vehicles with four-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender, rev. counter, speedometer



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T36	36-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
672	Earth point 2, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness
*	Applicable from November 2006
**	Applicable to October 2006

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6-speed automatic gearbox 09G

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

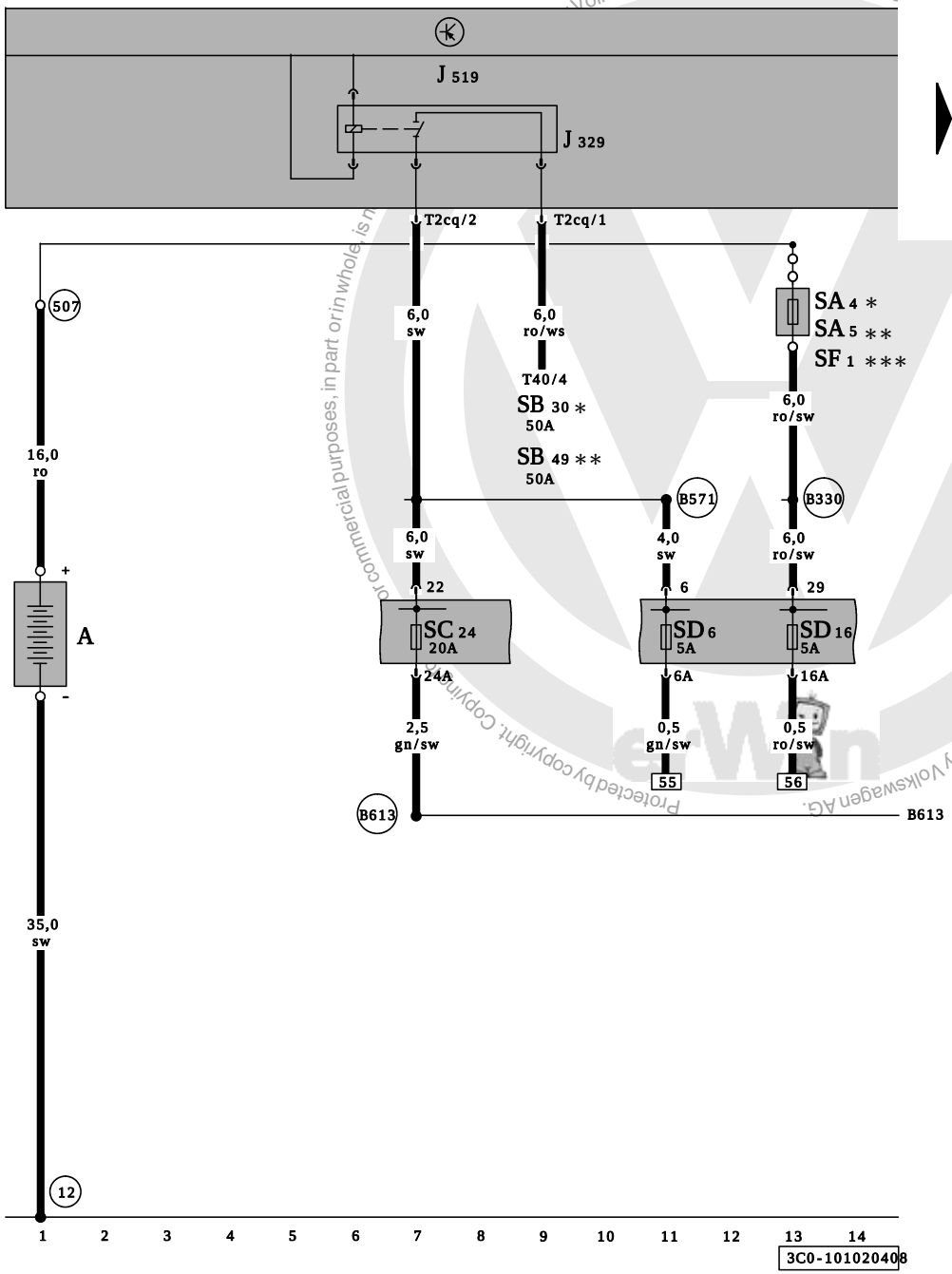
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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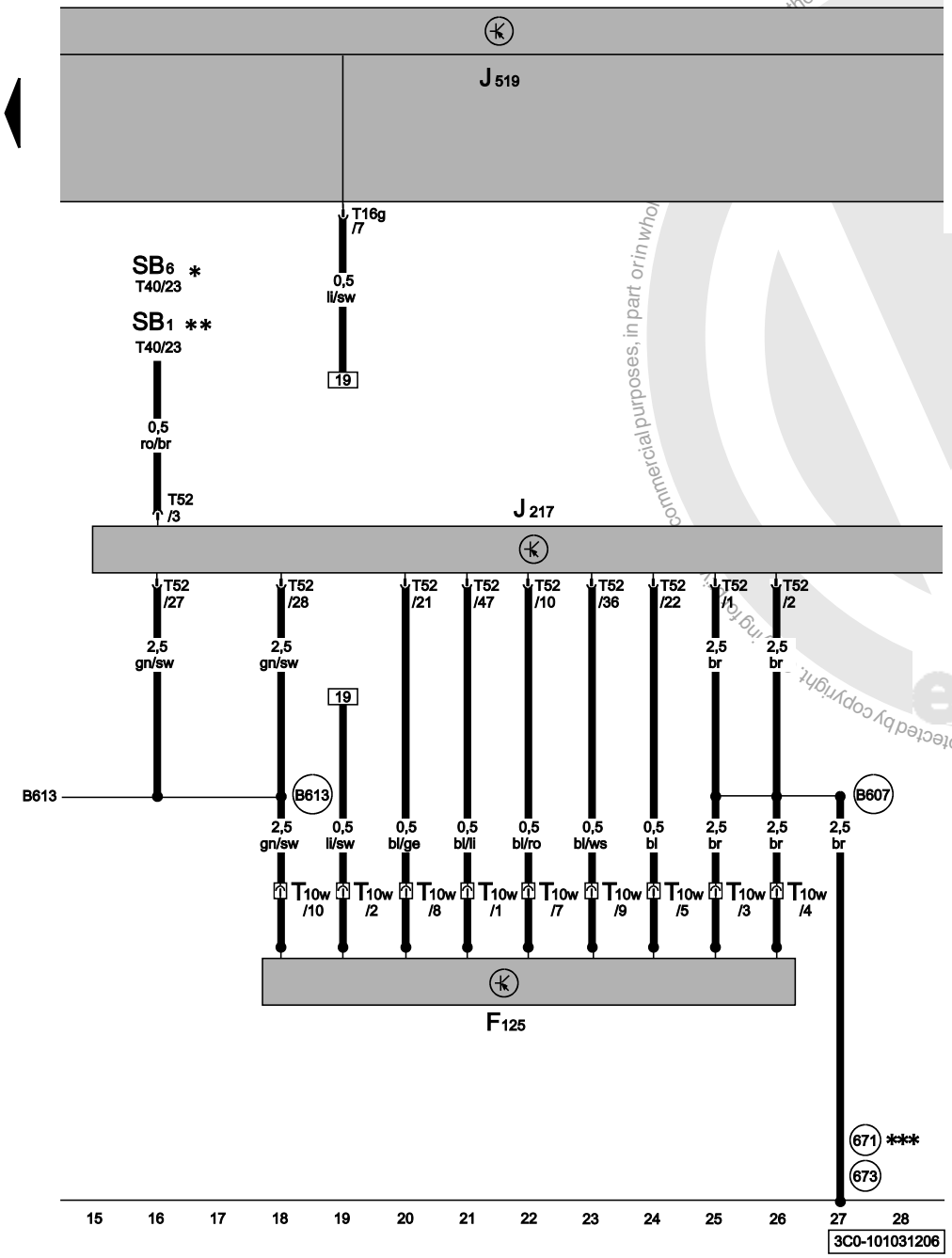


Battery, terminal 15 voltage supply relay 2, fuses

A	Battery
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC24	Fuse 24 on fuse holder C
SD6	Fuse 6 on fuse holder D
SD16	Fuse 16 on fuse holder D
SF1	Fuse 1 in fuse holder F
T2cq	2-pin connector
T40	40-pin connector
12	Earth point, on left in engine compartment
507	Threaded connection (30), on battery fuse holder
B330	Connection 16 (30a), in main wiring harness
B571	Connection 38, in main wiring harness
B613	Connection 41, in main wiring harness
*	Fuses in E-box low
**	Fuses in E-box high
***	Only engine codes AXZ and BLV

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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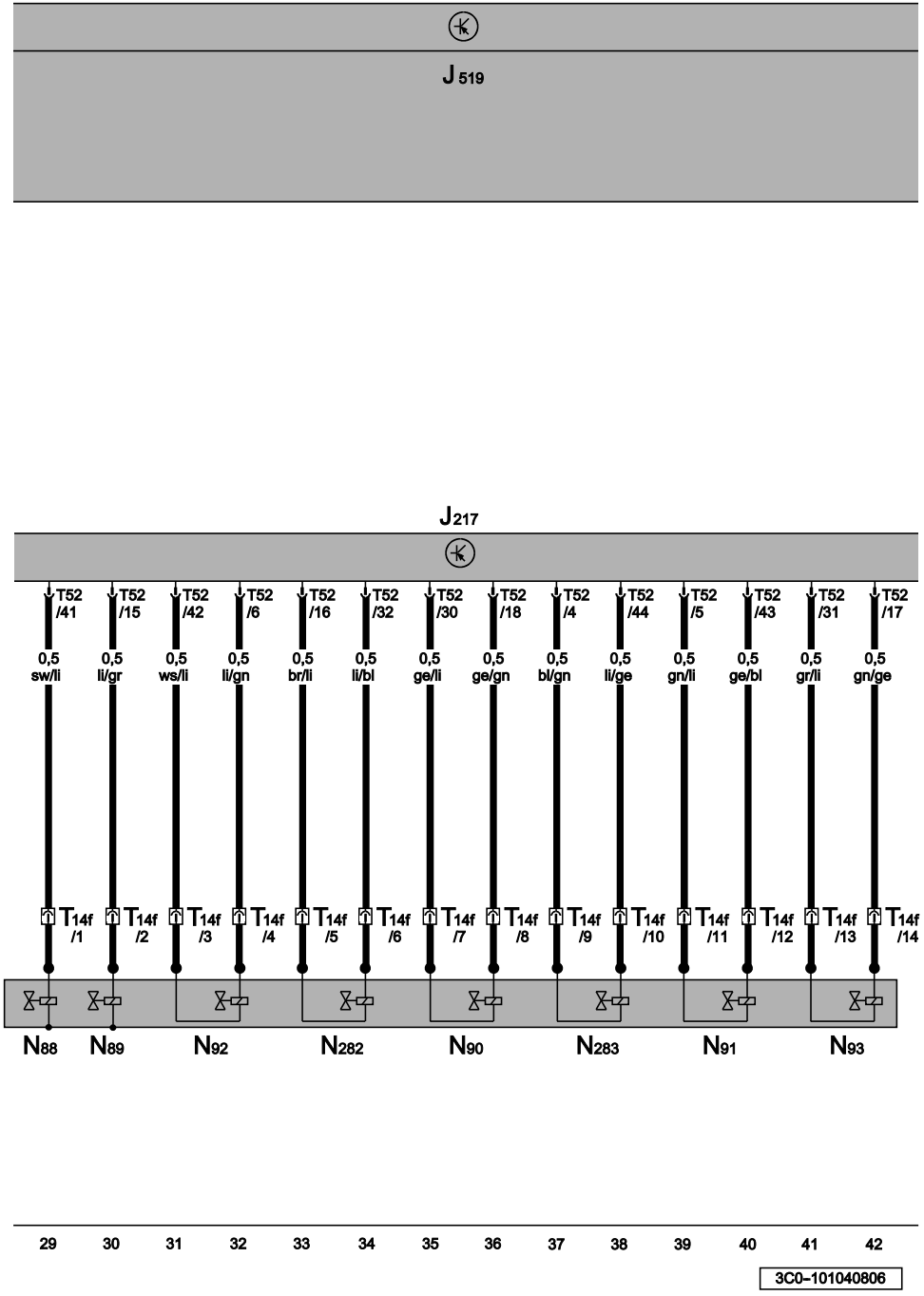


Multifunction switch, automatic gearbox control unit

F125	Multifunction switch
J217	Automatic gearbox control unit
J519	Onboard supply control unit
SB1	Fuse 1 on fuse holder B
SB6	Fuse 6 on fuse holder B
T10w	10-pin connector, on gearbox
T16g	16-pin connector
T40	40-pin connector
T52	52-pin connector
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B607	Connection 3, in interior wiring harness
B613	Connection 41, in main wiring harness
*	Fuses in E-box low
**	Fuses in E-box high
***	Applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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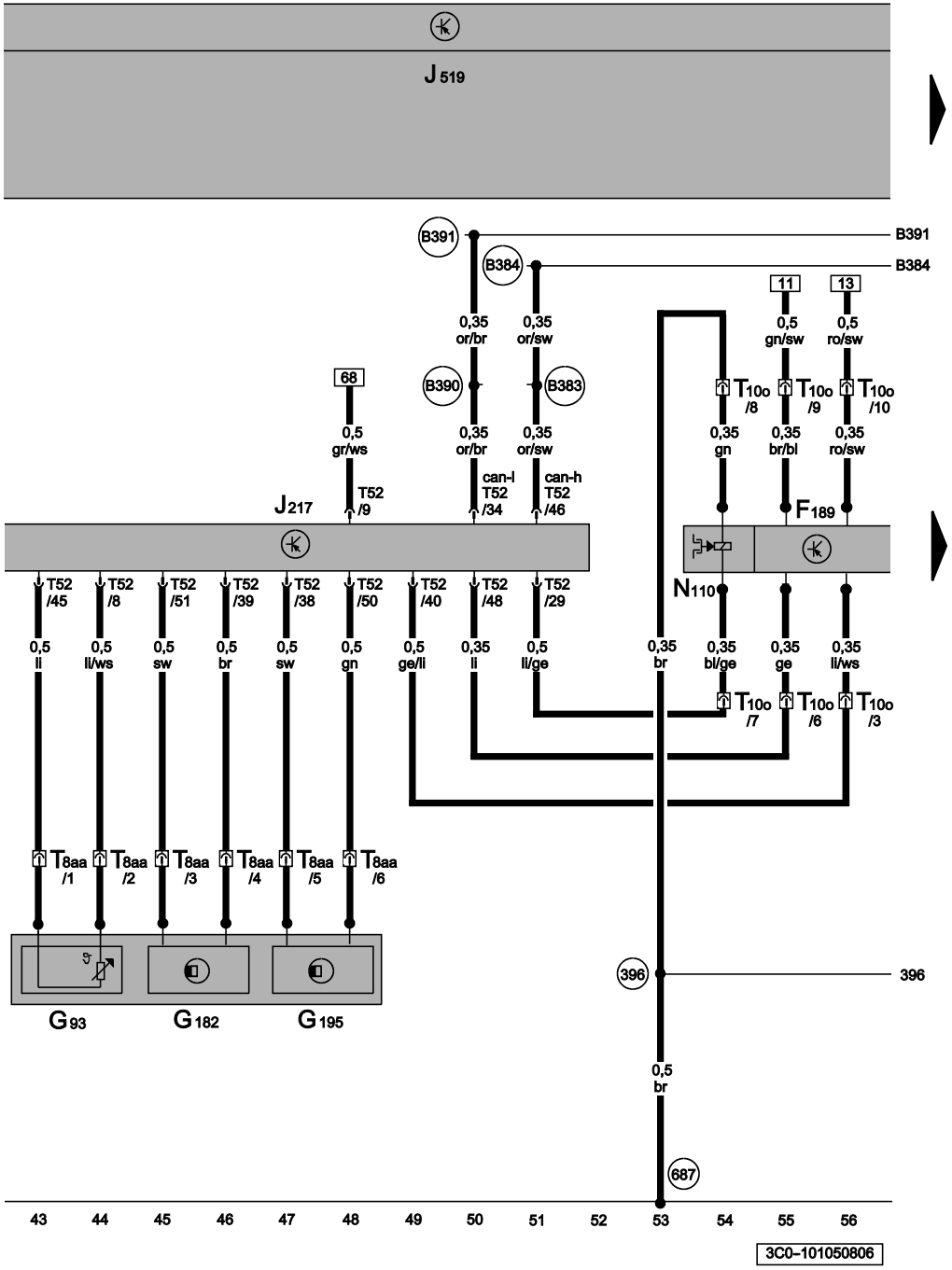


Automatic gearbox control unit, solenoid valves

J217	Automatic gearbox control unit
J519	Onboard supply control unit
N88	Solenoid valve 1
N89	Solenoid valve 2
N90	Solenoid valve 3
N91	Solenoid valve 4
N92	Solenoid valve 5
N93	Solenoid valve 6
N282	Solenoid valve 9
N283	Solenoid valve 10
T14f	14-pin connector, on gearbox
T52	52-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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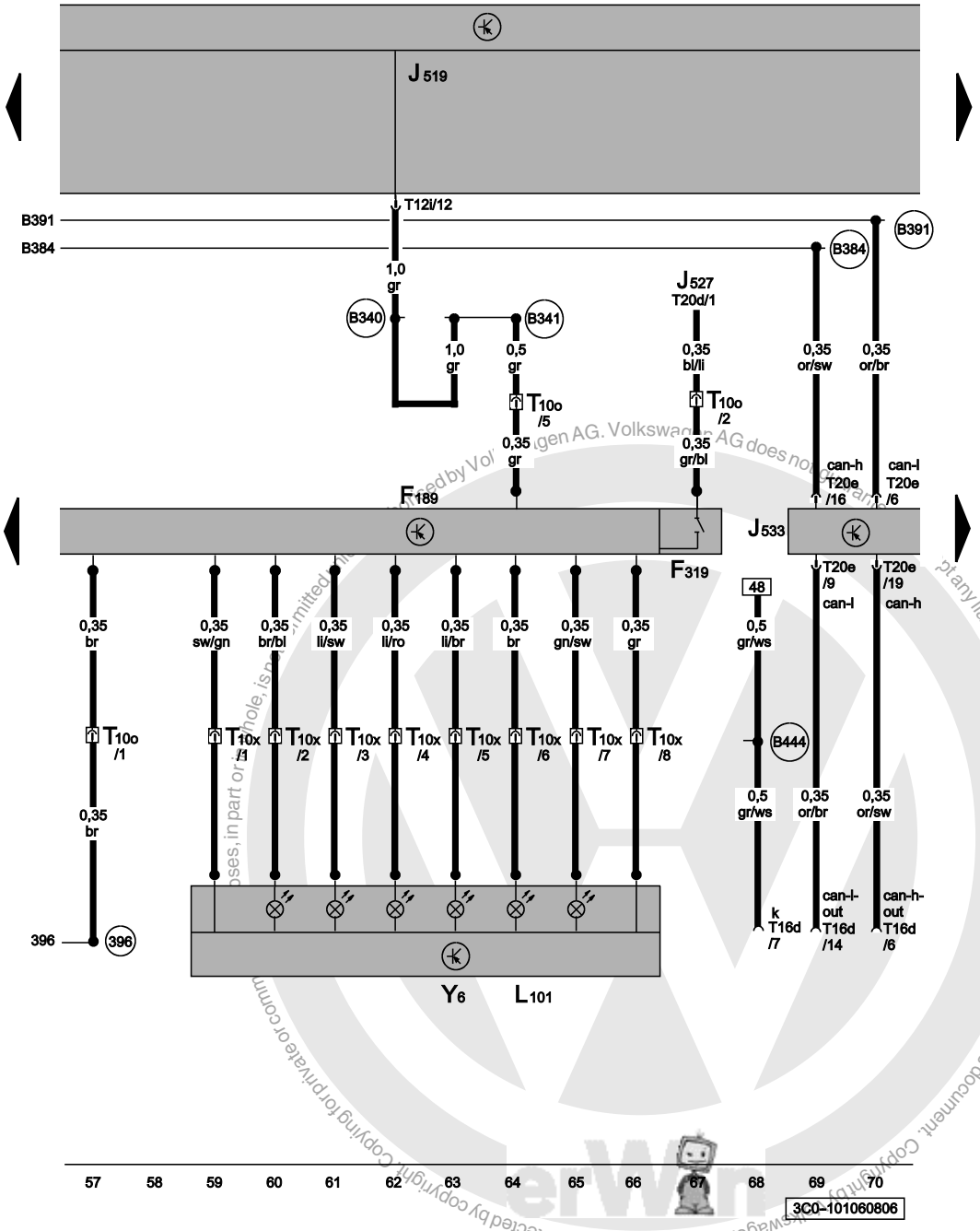


Tiptronic switch, gearbox oil temperature sender, gearbox input speed sender, gearbox output speed sender, selector lever lock solenoid

F189	Tiptronic switch
G93	Gearbox oil temperature sender
G182	Gearbox input speed sender
G195	Gearbox output speed sender
J217	Automatic gearbox control unit
J519	Onboard supply control unit
N110	Selector lever lock solenoid
T8aa	8-pin connector, coupling point gearbox prewiring
T10o	10-pin connector, on gearbox
T52	52-pin connector
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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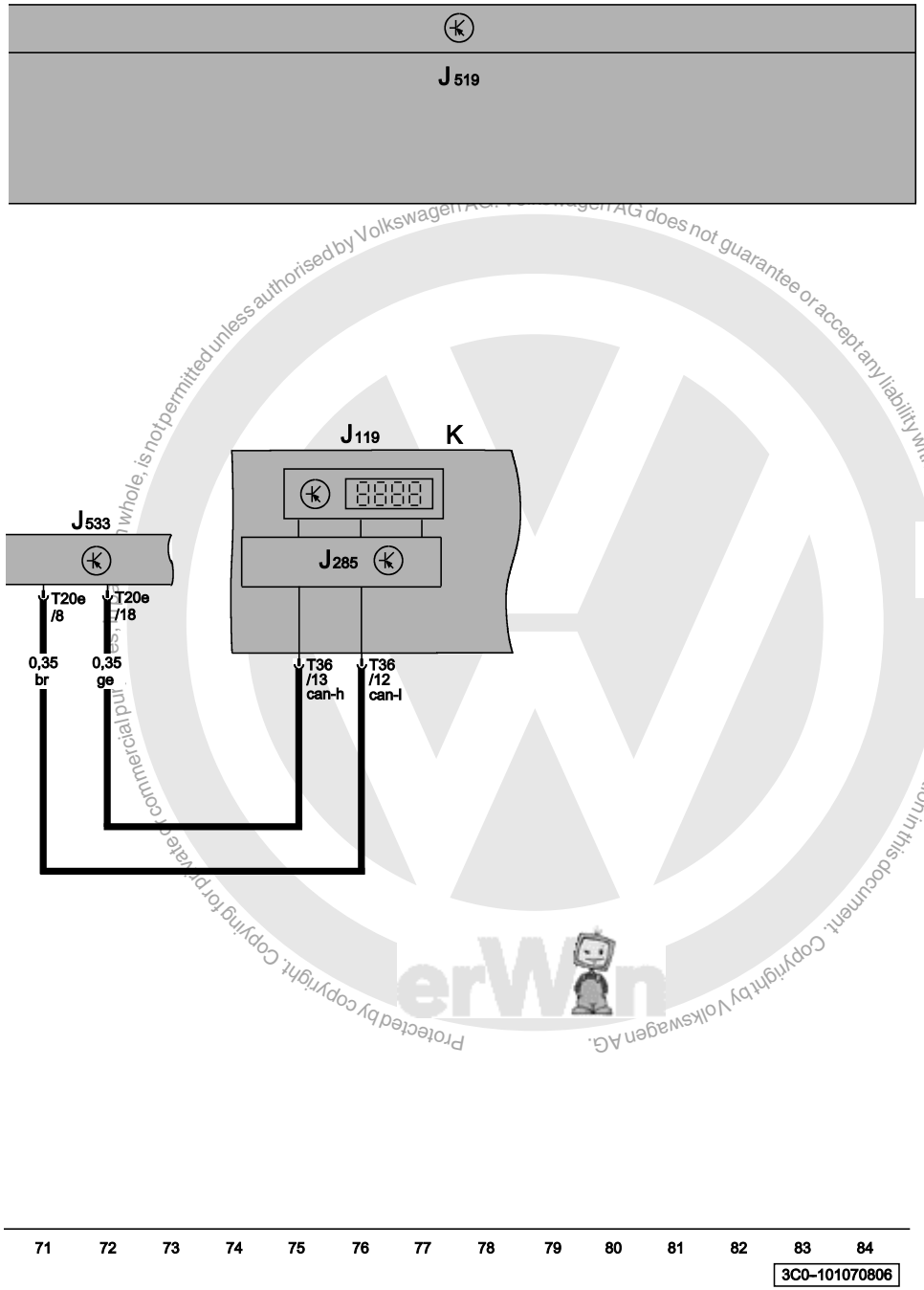


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Tiptronic switch, selector lever locked in position P switch, data bus diagnostic interface, selector lever lock solenoid, selector lever position display

F189	Tiptronic switch
F319	Selector lever locked in position P switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
L101	Selector lever display illumination bulb
T16d	16-pin connector, self-diagnosis connection
T10o	10-pin connector, on gearbox
T10x	10-pin connector, near selector lever
T12i	12-pin connector
T20d	20-pin connector
T20e	20-pin connector
Y6	Selector lever position display
396	Earth connection 31, in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

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Multifunction display, dash panel insert, data bus diagnostic interface

J119	Multifunction indicator
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
K	Dash panel insert
T20e	20-pin connector
T36	36-pin connector

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Trailer towing attachment

From May 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

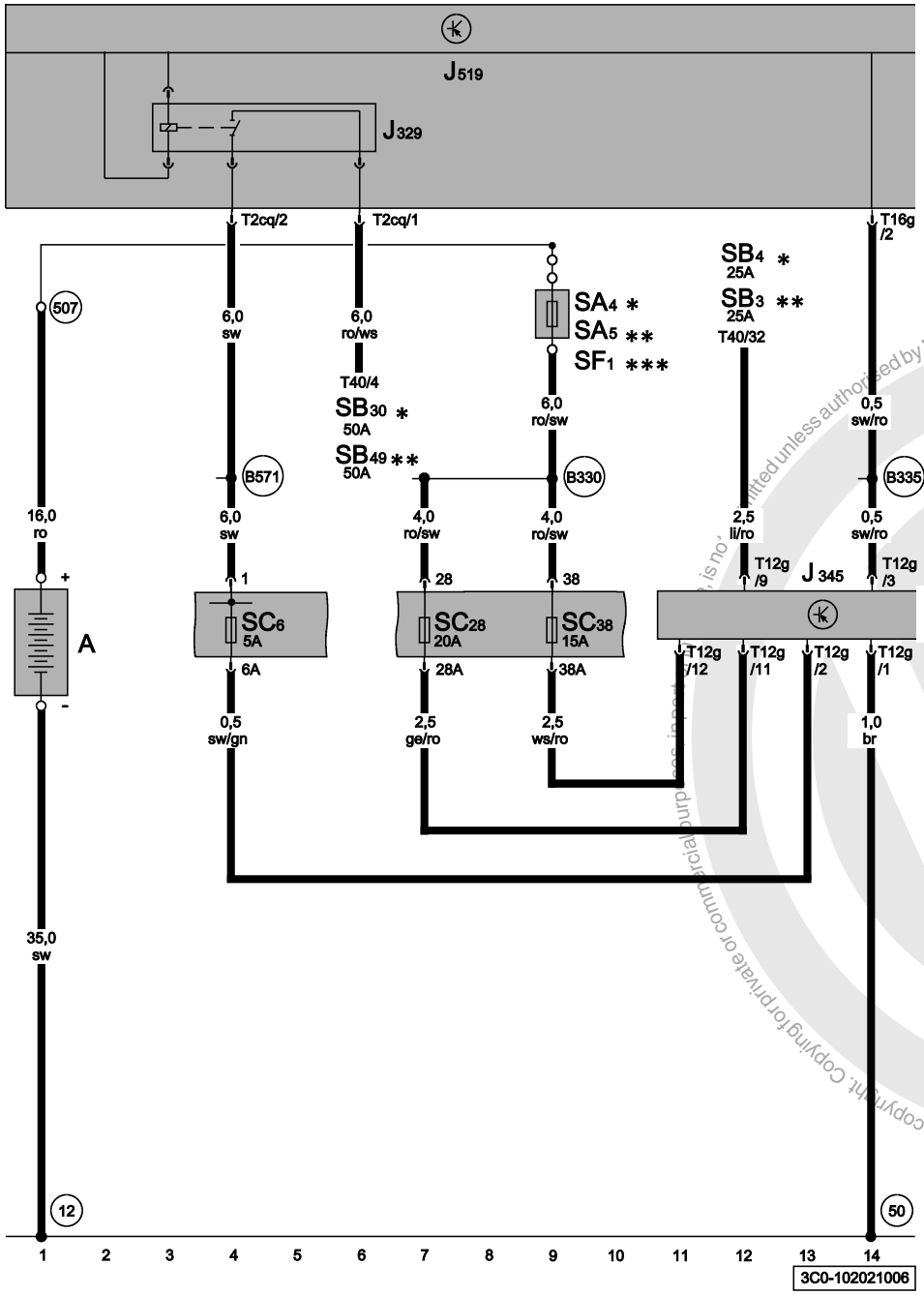
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Trailer detector control unit, fuses

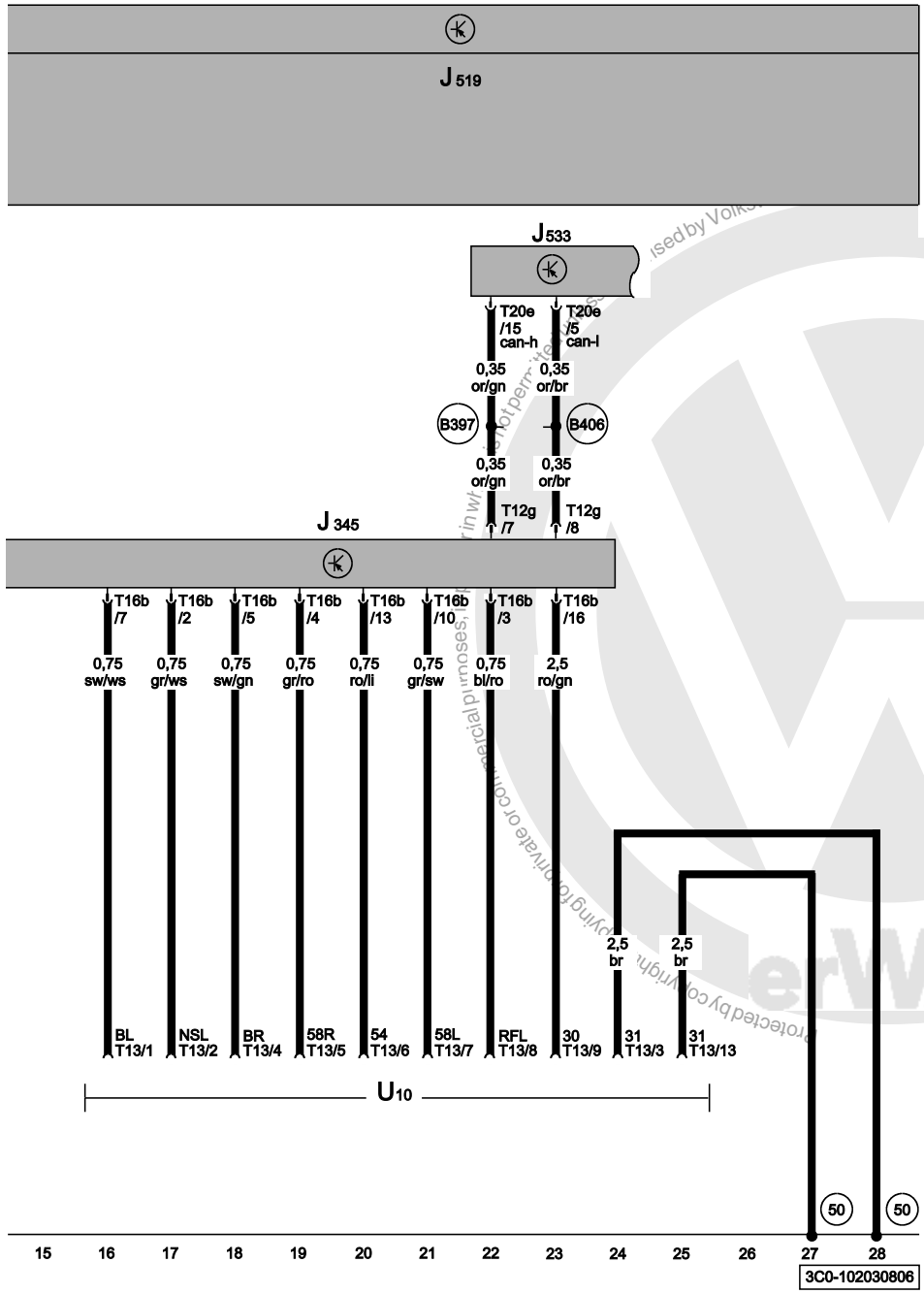
A	Battery
J329	Terminal 15 voltage supply relay
J345	Trailer detector control unit
J519	Onboard supply control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SB3	Fuse 3 on fuse holder B
SB4	Fuse 4 on fuse holder B
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC6	Fuse 6 on fuse holder C
SC28	Fuse 28 on fuse holder C
SC38	Fuse 38 on fuse holder C
SF1	Fuse 1 on fuse holder F
T2cq	2-pin connector
T12g	12-pin connector
T16g	16-pin connector
T40	40-pin connector
12	Earth point, on left in engine compartment
50	Earth point, on left in luggage compartment
507	Threaded connection (30), on fuse holder on battery
B330	Connection 16 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
B571	Connection 38 in main wiring harness
*	fuses in E-box low
**	fuses in E-box high
***	Only engine codes AXZ and BLV

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Trailer detector control unit, data bus diagnostic interface, trailer socket

J345	Trailer detector control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
T12g	12-pin connector
T16b	16-pin connector
T13	13-pin connector
T20e	20-pin connector
U10	Trailer socket
50	Earth point, on left in luggage compartment
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Radio and navigation system: RNS MFD2

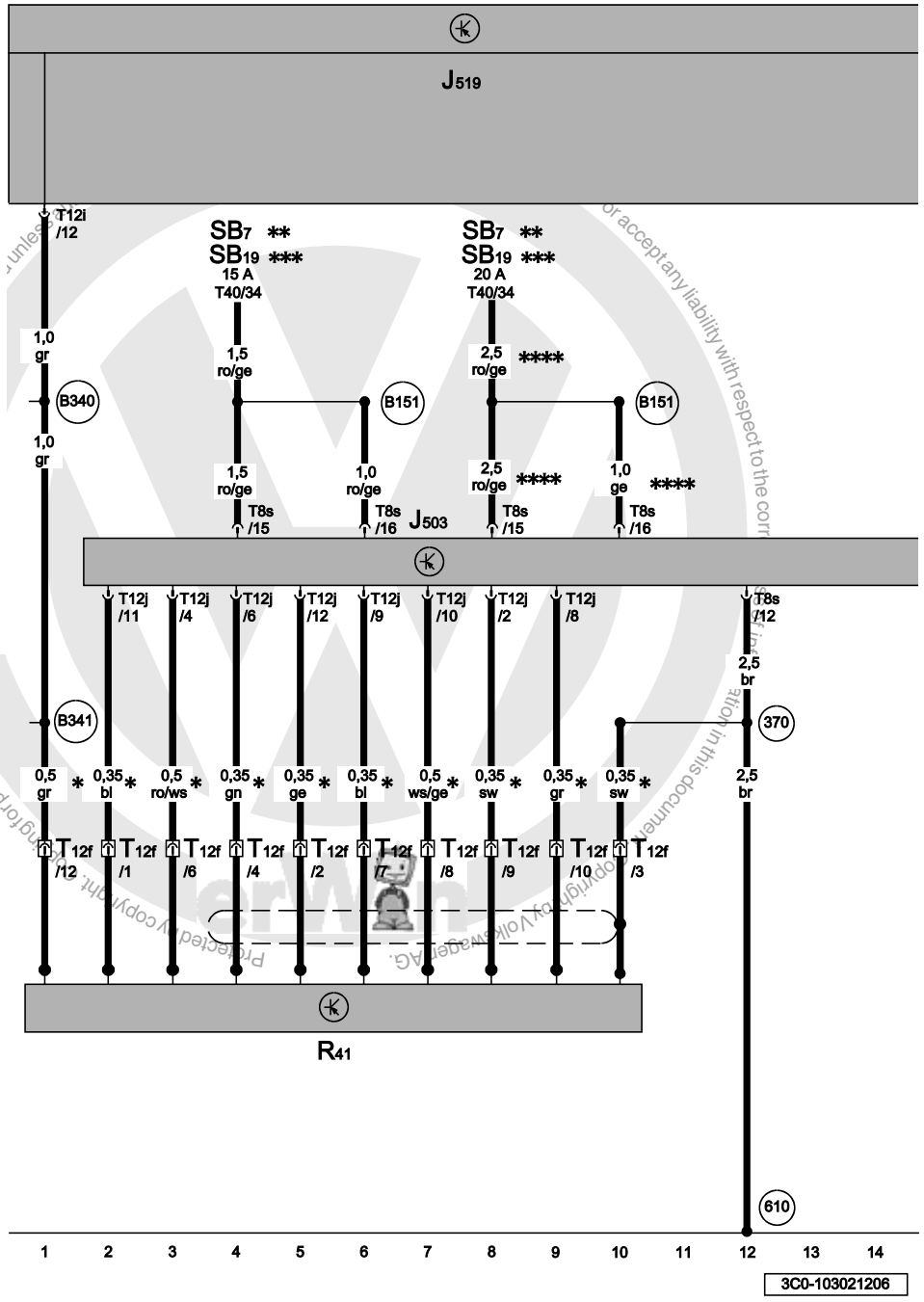
⇒ **CD changer**
⇒ **4 loudspeakers**
⇒ **8 loudspeakers**
From January 2006

Notes:
For information about
- Relay and fuse assignments
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information about
- Fault Finding Programs

⇒ Guided Fault Finding

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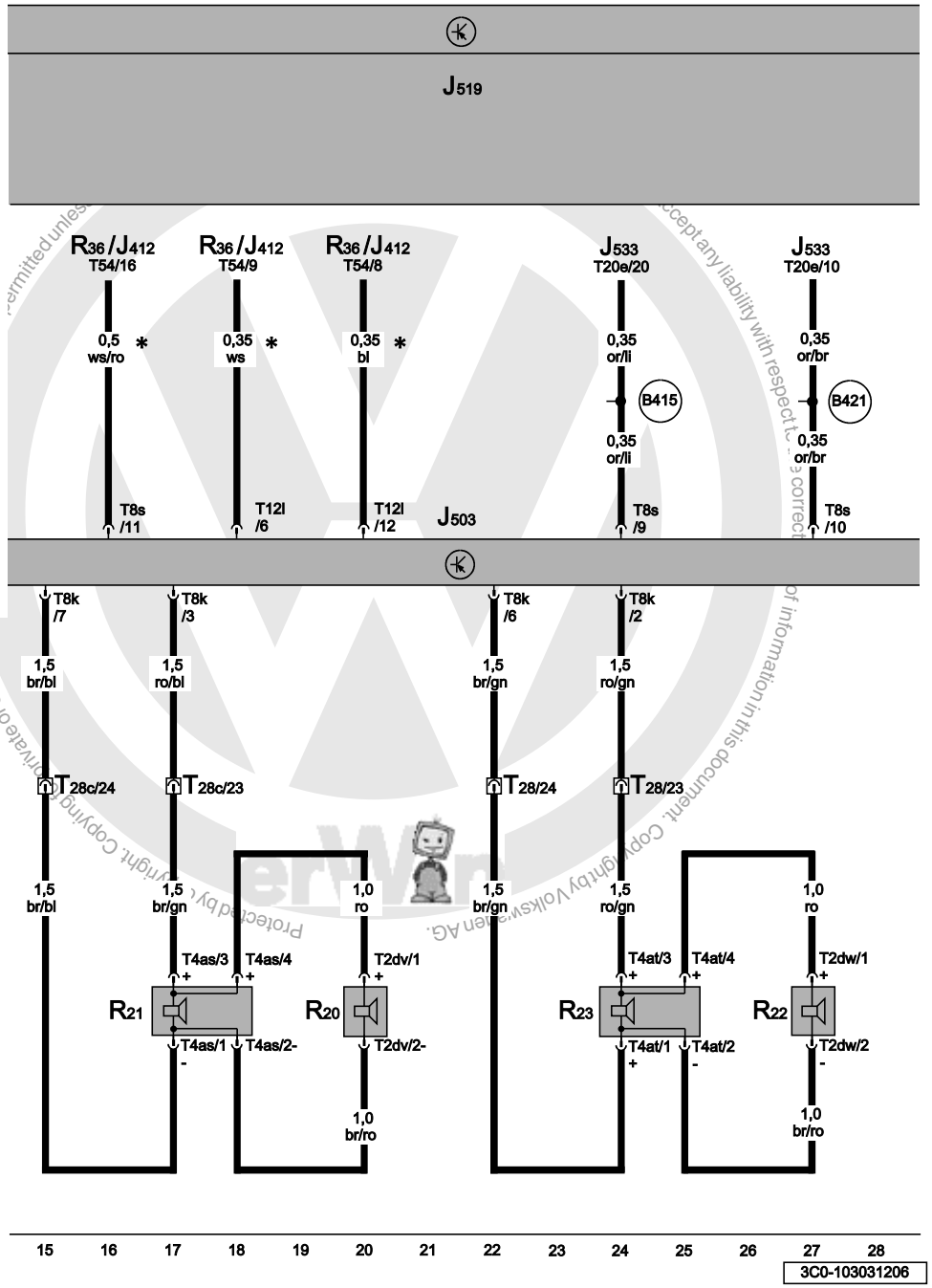


Voltage supply for radio, control unit with display for radio and navigation, CD changer

J503	Control unit with display for radio and navigation system
J519	Onboard supply control unit
R41	CD changer
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T8s	8-pin connector, black
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector
T40	40-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), under centre console at front
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only on vehicles with preparation for external CD changer
**	Only on vehicles with E-box low
***	Only on vehicles with E-box high
****	Valid from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

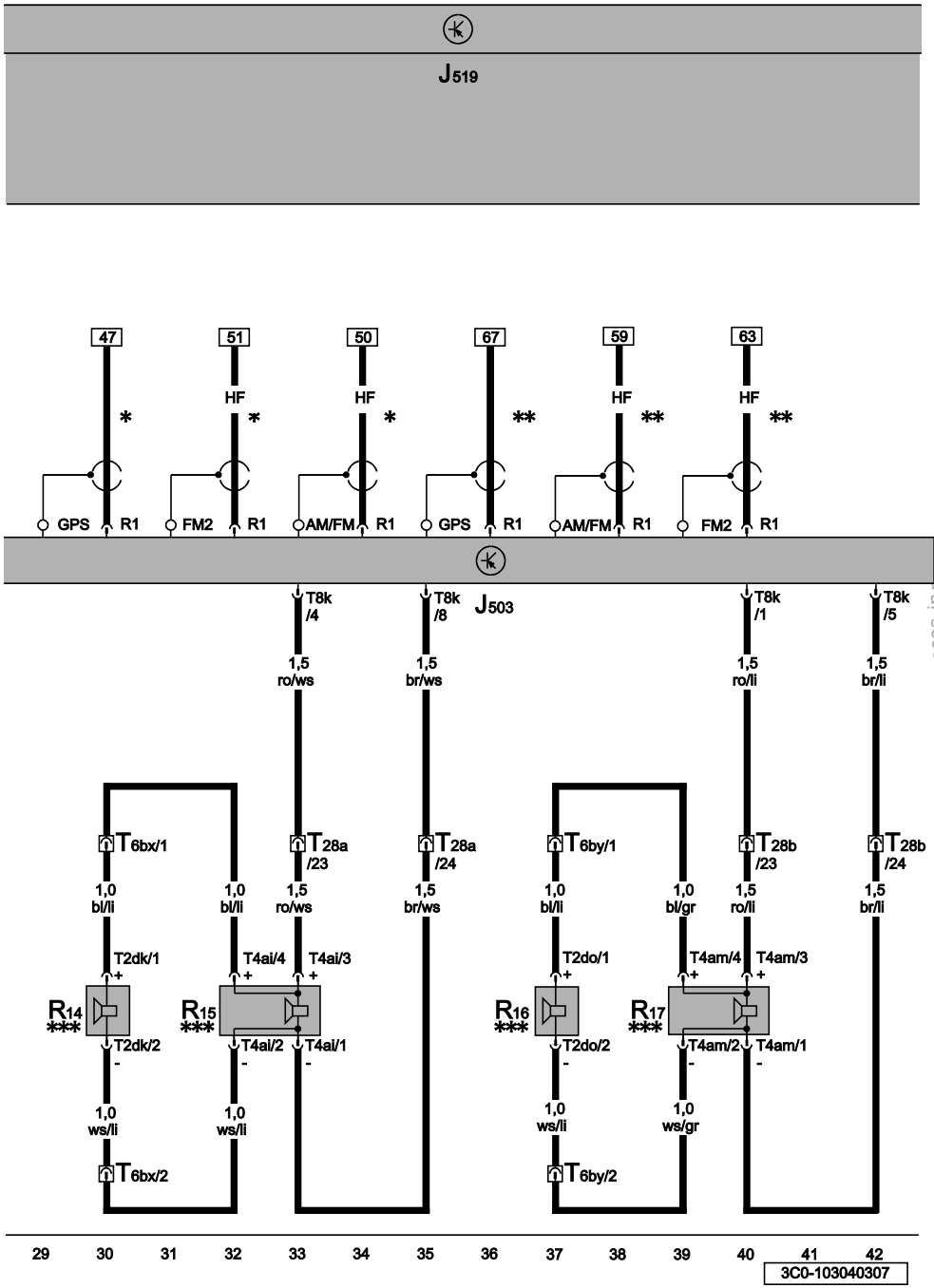
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Radio/ control unit with display for radio and navigation, front left and right treble loudspeaker and bass loudspeaker, telephone transmitter and receiver unit

J412	Control unit for cellphone operating electronics
J503	Control unit with display for radio and navigation system
J533	Data bus diagnosis interface
J519	Onboard supply control unit
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R36	Telephone transmitter and receiver unit
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T8k	8-pin connector, brown
T8s	8-pin connector, black
T12l	12-pin connector
T20e	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T54	54-pin connector
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only on vehicles with telephone

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

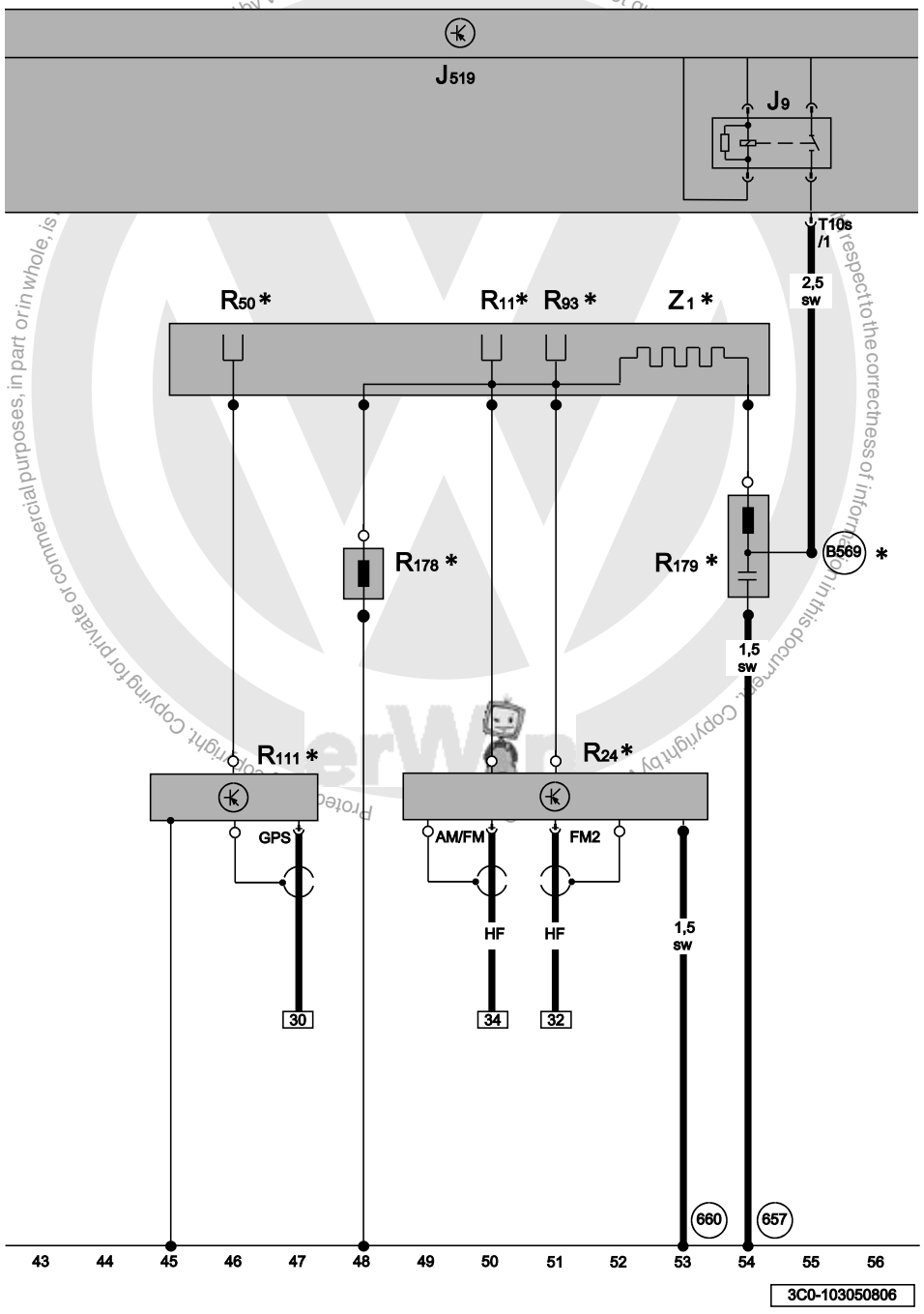


Radio/ control unit with display for radio and navigation, rear left and right treble loudspeaker and bass loudspeaker, aerial connection

J503	Control unit with display for radio and navigation system
J519	Onboard supply control unit
R1	Aerial connection
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T8k	8-pin connector, brown
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
*	Only on saloon models
**	Only on estate models
**	Only on vehicles with rear loudspeakers

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

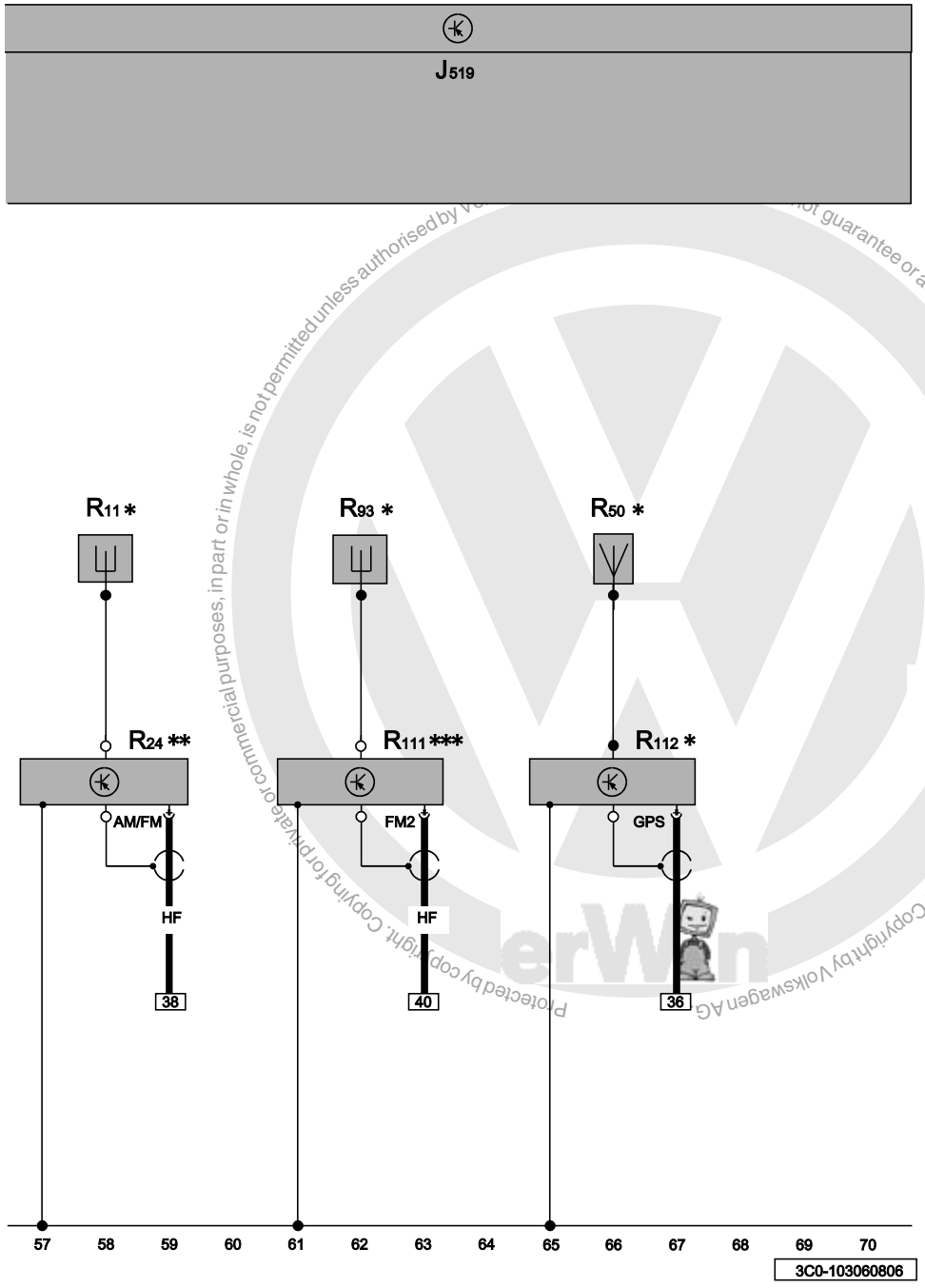
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Aerials (saloon), aerial amplifier, frequency filter for frequency modulation

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R178	Frequency filter for frequency modulation (FM) in negative wire
R179	Frequency filter for frequency modulation (FM) in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36, in main wiring harness
*	Only on saloon models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Aerials (estate), aerial amplifier

J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
*	Only on estate models
**	Only on estate models, in left C-pillar
***	Only on estate models, in right C-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Multimedia systems

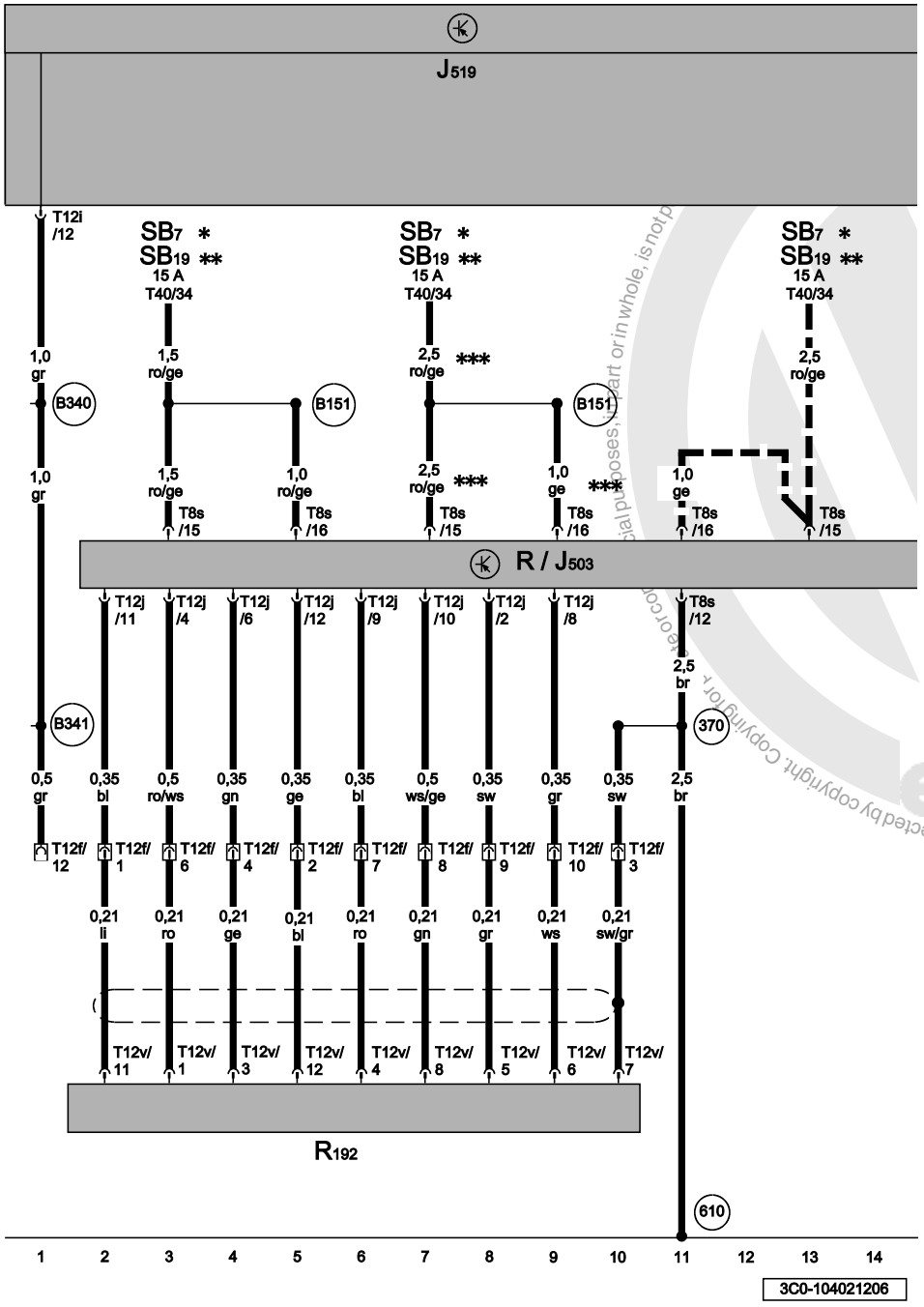
⇒ **Preparation - iPod**
⇒ **Connection for external audio source**
⇒ **USB-Interface**
From May 2006

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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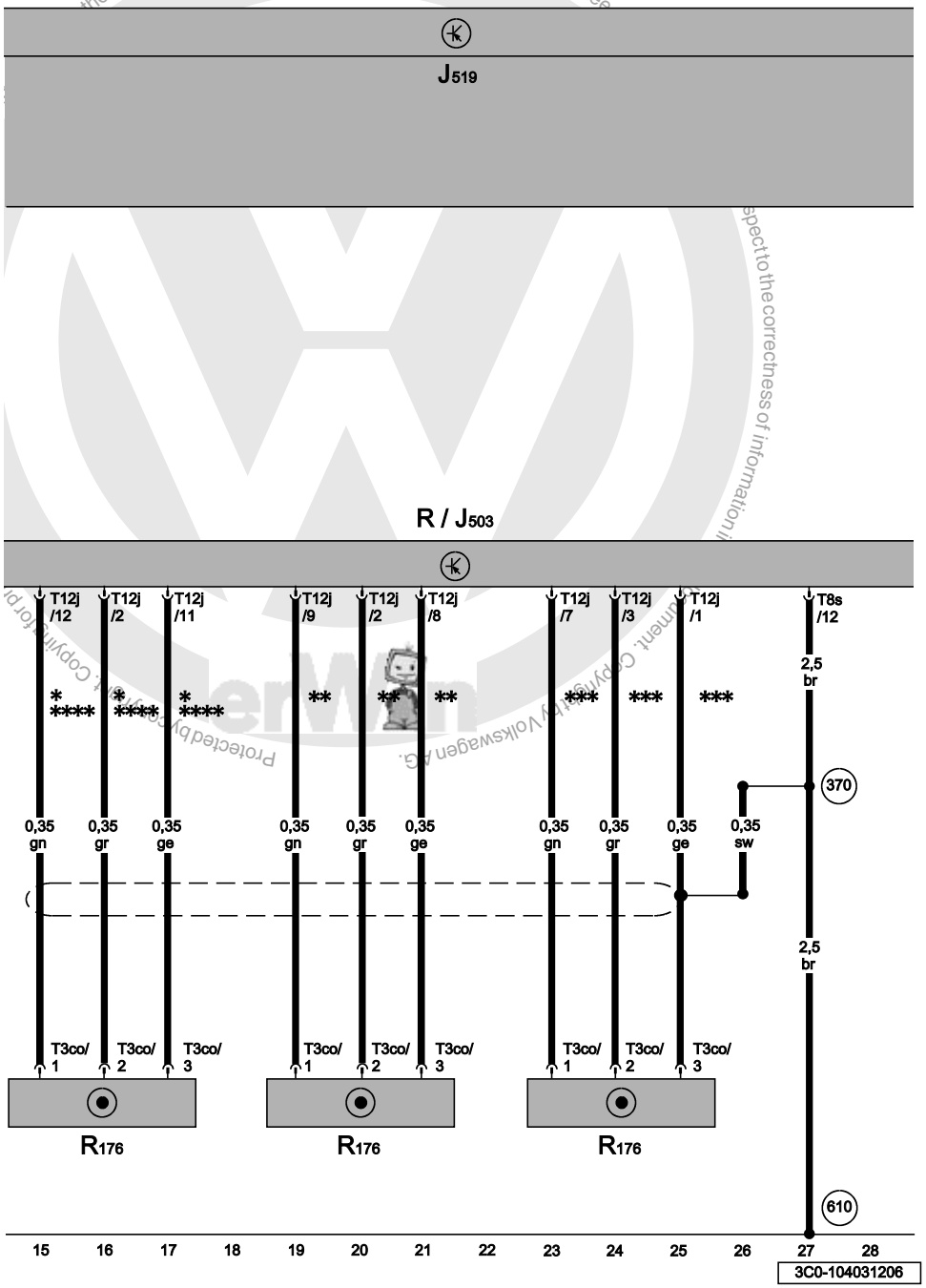
Voltage supply for radio, control unit with display for radio and navigation, iPod

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R192	iPod holder
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T8s	8-pin connector, black
T12f	12-pin connector, near glove compartment
T12i	12-pin connector
T12j	12-pin connector
T12v	12-pin connector
T40	40-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), front below centre console
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only models with E-box - low
**	Only models with E-box high
***	Only models with radio/navigation system from November 2006
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/m_m.png" content-width="20pt" scaling="uniform"/>	Only models with radio system from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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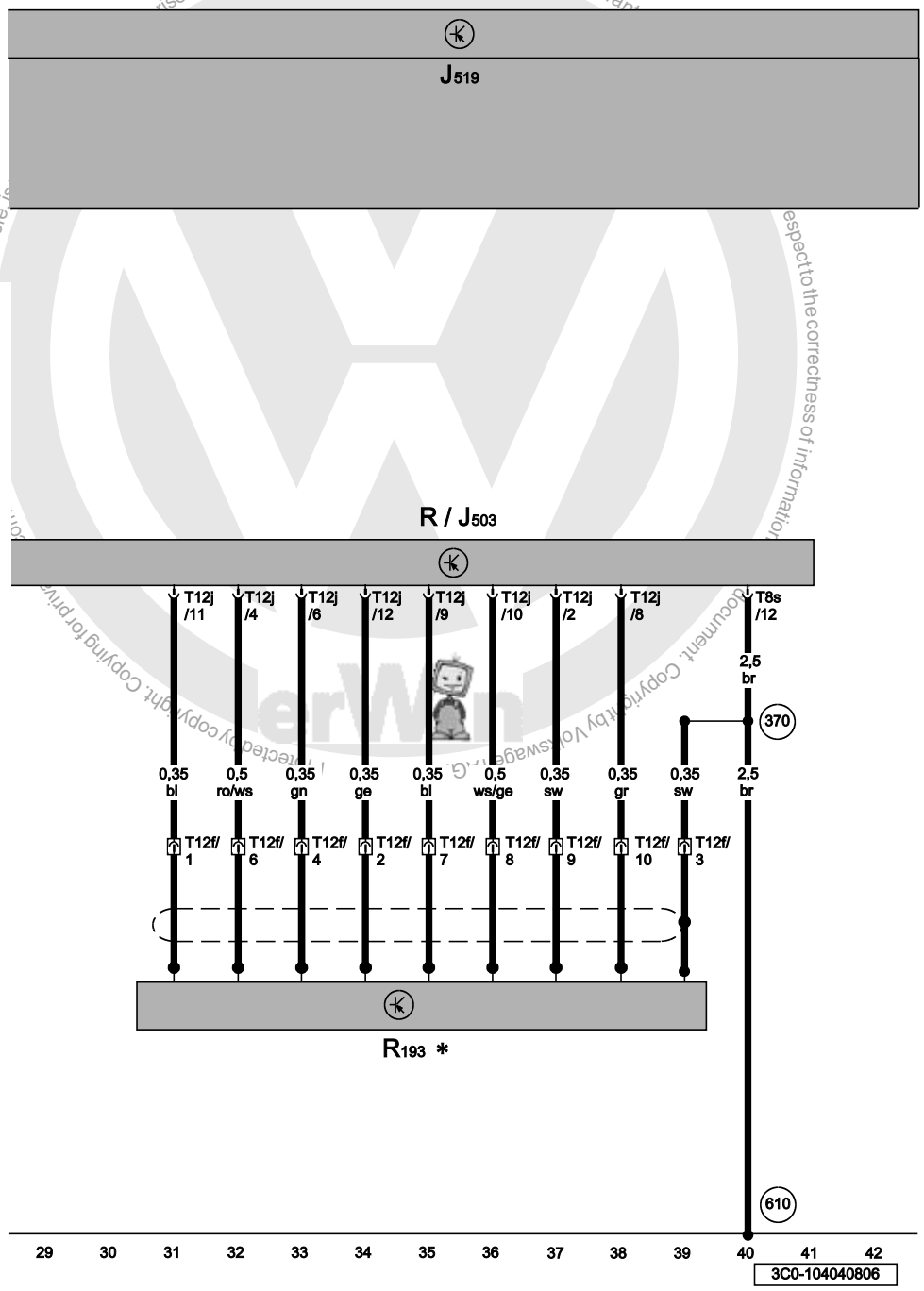
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Radio/ control unit with display for radio and navigation, additional connections unit for audio and video

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R176	Additional connections unit for audio and video
T3co	3-pin connector
T8s	8-pin connector, black
T12j	12-pin connector
(370)	Earth connection 5, in main wiring harness
(610)	Earth point (audio), front below centre console
*	american markets only
**	only models with radio system and without prepared for CD changer
***	for models with radio navigation system only
****	for special vehicles with radio/navigation system only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Radio/ control unit with display for radio and navigation, USB connection retainer

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R193	USB connection retainer
T8s	8-pin connector, black
T12f	12-pin connector, near glove compartment
T12j	12-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), front below centre console
*	not for american markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Supplementary coolant heater

⇒ **With remote control receiver and timer**

⇒ **With no remote control receiver and with timer**

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

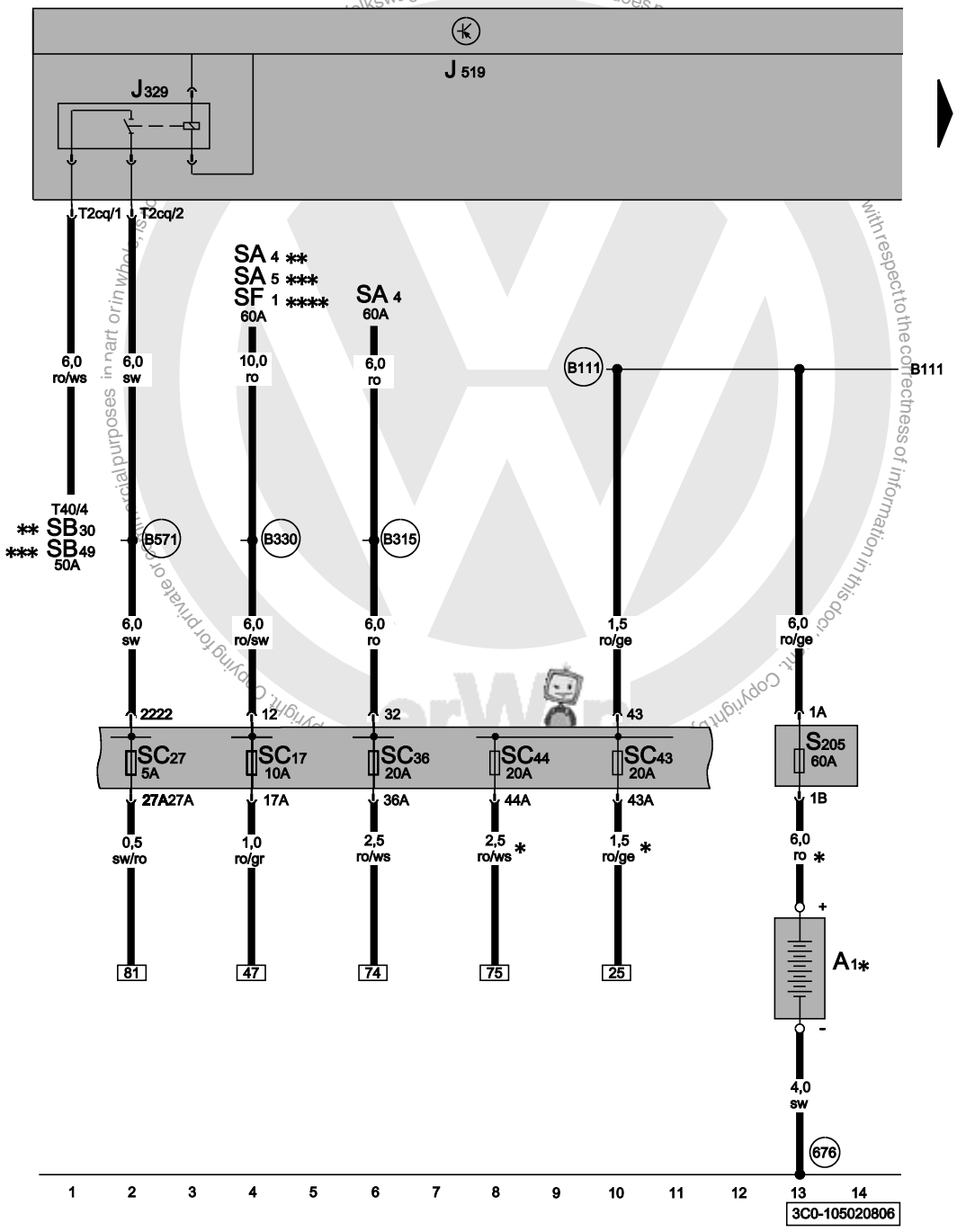
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

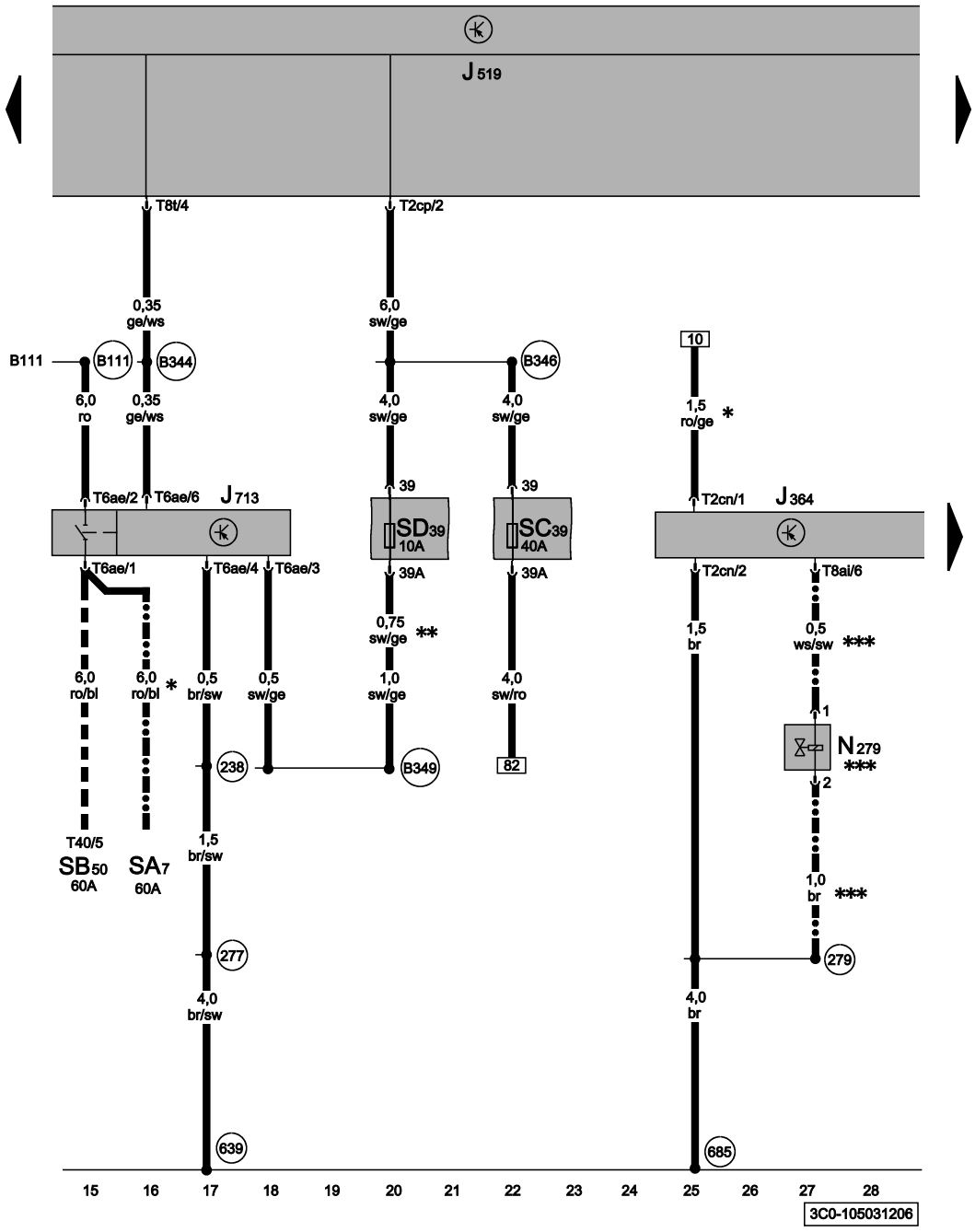
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rs = pink

Second battery, terminal 15 voltage supply relay, fuses

A1	Second battery
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
S205	Fuse 2 (30), near second battery
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC17	Fuse 17 on fuse holder C
SC27	Fuse 27 on fuse holder C
SC36	Fuse 36 on fuse holder C
SC43	Fuse 43 on fuse holder C
SC44	Fuse 44 on fuse holder C
SF1	Fuse 1 in fuse holder F
T2cq	2-pin connector
T40	40-pin connector
676	Earth point 2, on left in luggage compartment
B111	Positive connection 1 (30a), in interior wiring harness
B315	Connection 1 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B571	Connection 38 in main wiring harness
*	Only on vehicles with second battery
**	Only on vehicles with E-box Low
***	Only on vehicles with E-box High
****	Only on vehicles with engine codes AXZ and BLV

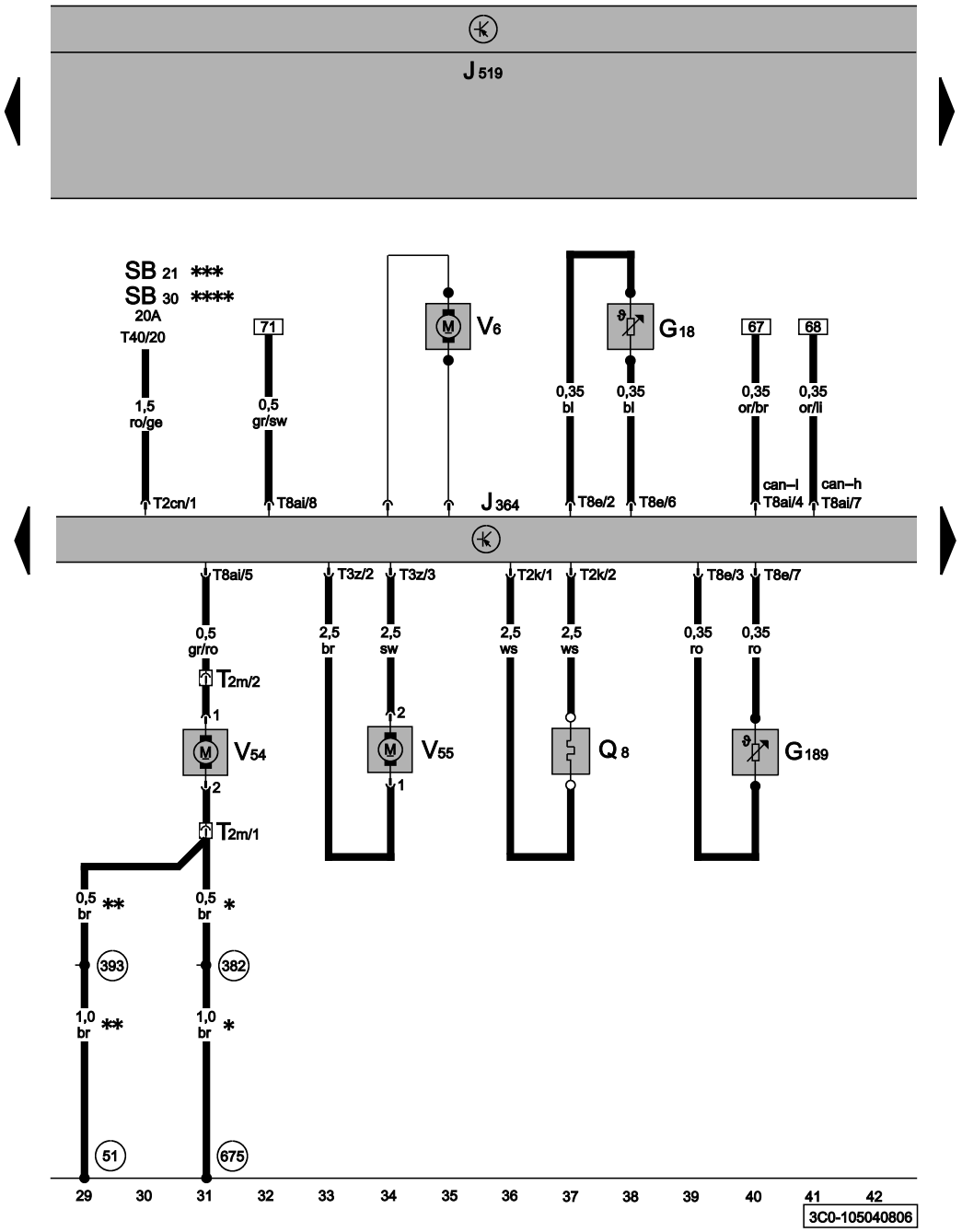


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Auxiliary heater control unit, second battery charging circuit relay, fuses

J364	Auxiliary heater control unit
J519	Onboard supply control unit
J713	Second battery charging circuit relay
N279	Heater coolant shut-off valve
SA7	Fuse 7 on fuse holder A
SB50	Fuse 50 on fuse holder B
SC39	Fuse 39 on fuse holder C
SD39	Fuse 39 on fuse holder D
T2cn	2-pin connector
T2cp	2-pin connector
T6ae	6-pin connector
T8t	8-pin connector
T8ai	8-pin connector
T40	40-pin connector
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
279	Earth connection 5, in interior wiring harness
639	Earth point, left A-pillar
685	Earth point 1 at front of right longitudinal member
B111	Positive connection 1 (30a), in interior wiring harness
B344	Connection 1 (61), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B349	Connection 2 (75A) in main wiring harness
*	Only on vehicles with second battery
**	Applicable from November 2006
***	Applicable to October 2006
---	Only on vehicles with engine codes AXZ and BLV
-●●-	Only on vehicles with petrol engine

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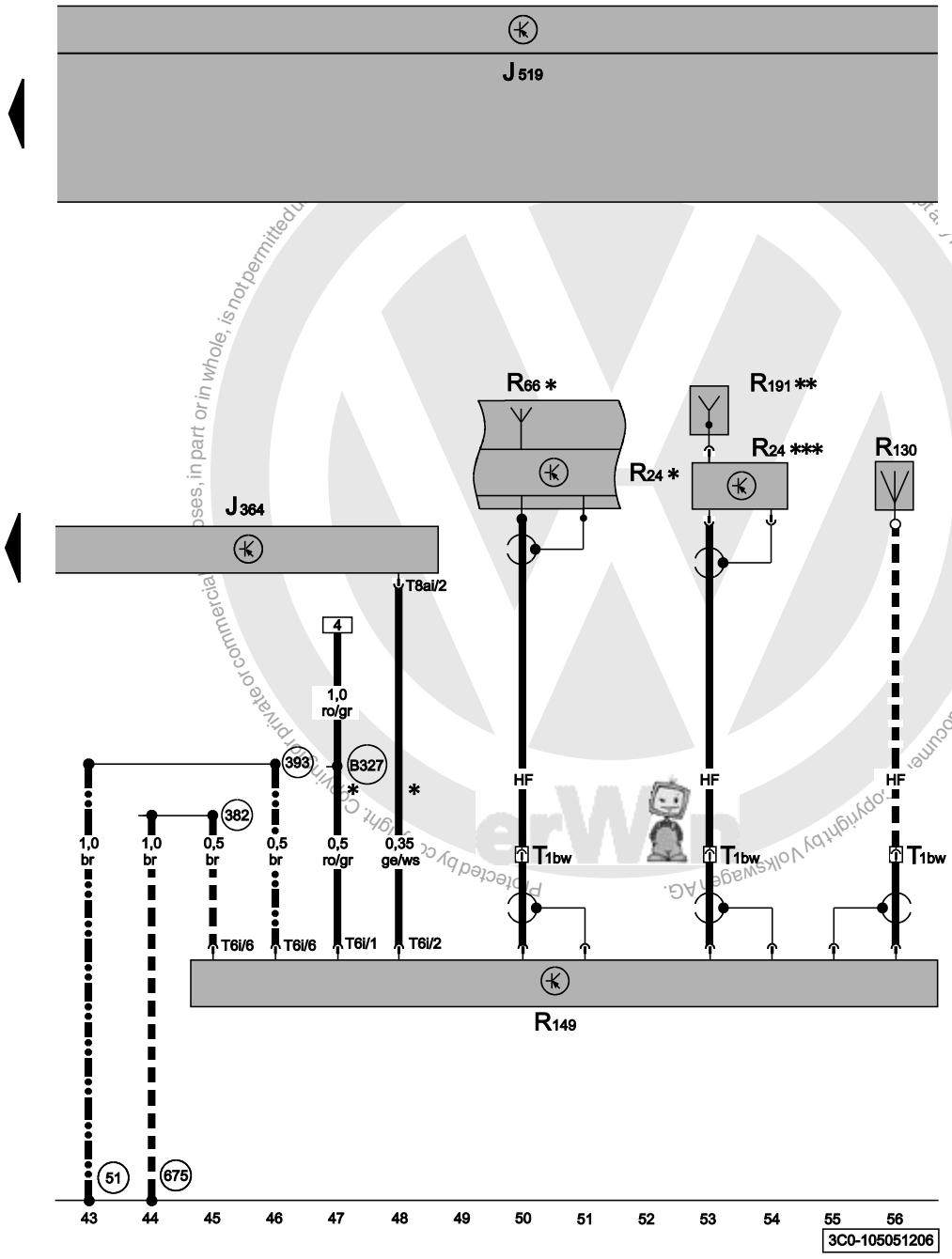


Auxiliary heater control unit, temperature sensor, overheating sensor, glow plug, combustion air blower, metering pump, circulation pump

G18	Temperature sensor
G189	Overheating sensor
J364	Auxiliary heater control unit
J519	Onboard supply control unit
SB21	Fuse 21 on fuse holder B
SB30	Fuse 30 on fuse holder B
T2k	2-pin connector
T2m	2-pin connector, black, near fuel tank
T2cn	2-pin connector
T3z	3-pin connector
T8e	8-pin connector
T8ai	8-pin connector
T40	40-pin connector
Q8	Glow plug with flame monitor
V6	Combustion air blower
V54	Metering pump, on right of fuel tank
V55	Circulation pump
51	Earth point, on right in luggage compartment
382	Earth connection 17, in main wiring harness
393	Earth connection 28, in main wiring harness
675	Earth point 2, on right in luggage compartment
*	Only on saloon models
**	Only on estate models
***	Only on vehicles with E-box Low
****	Only on vehicles with E-box High

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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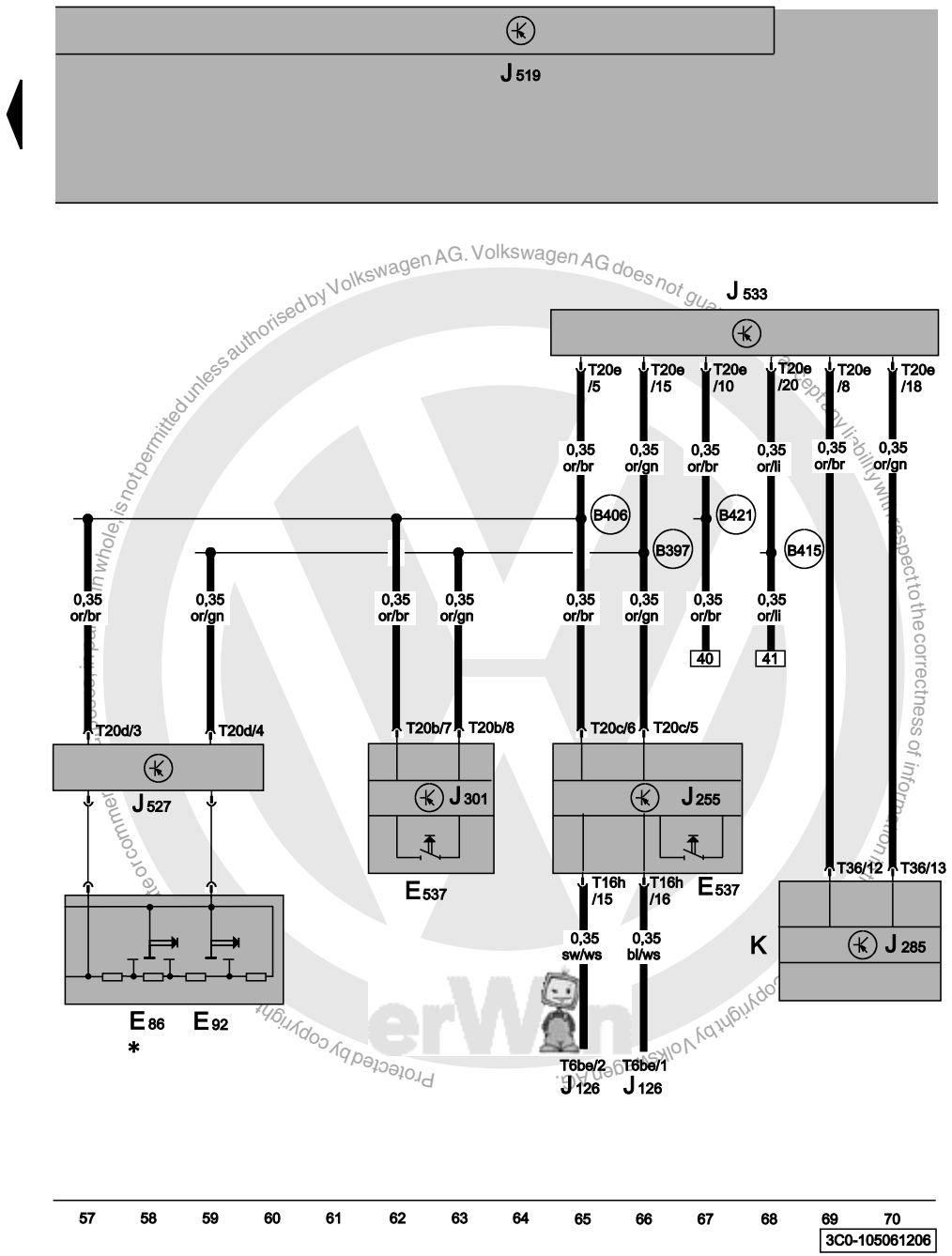


Auxiliary heater control unit, remote control receiver for auxiliary coolant heater, auxiliary heater aerial, navigation system aerial, telephone aerial, aerial amplifier

J364	Auxiliary heater control unit
J519	Onboard supply control unit
R24	Aerial amplifier
R66	Aerial for telephone, navigation system and auxiliary heater
R130	Rear window aerial 1
R149	Radio receiver for auxiliary coolant heater, on right in luggage compartment
R191	Side window aerial
T1bw	Single pin connector, near roof aerial
T6i	6-pin connector
T8ai	8-pin connector
51	Earth point, on right in luggage compartment
382	Earth connection 17, in main wiring harness
393	Earth connection 28, in main wiring harness
675	Earth point 2, on right in luggage compartment
B327	Connection 13 (30a), in main wiring harness
*	Only on vehicles with remote control receiver for auxiliary coolant heater
**	Only on vehicles with cellphone/cellphone preparation
***	Only on vehicles with no telephone /telephone preparation
---	Only on saloon models
-●●-	Only on estate models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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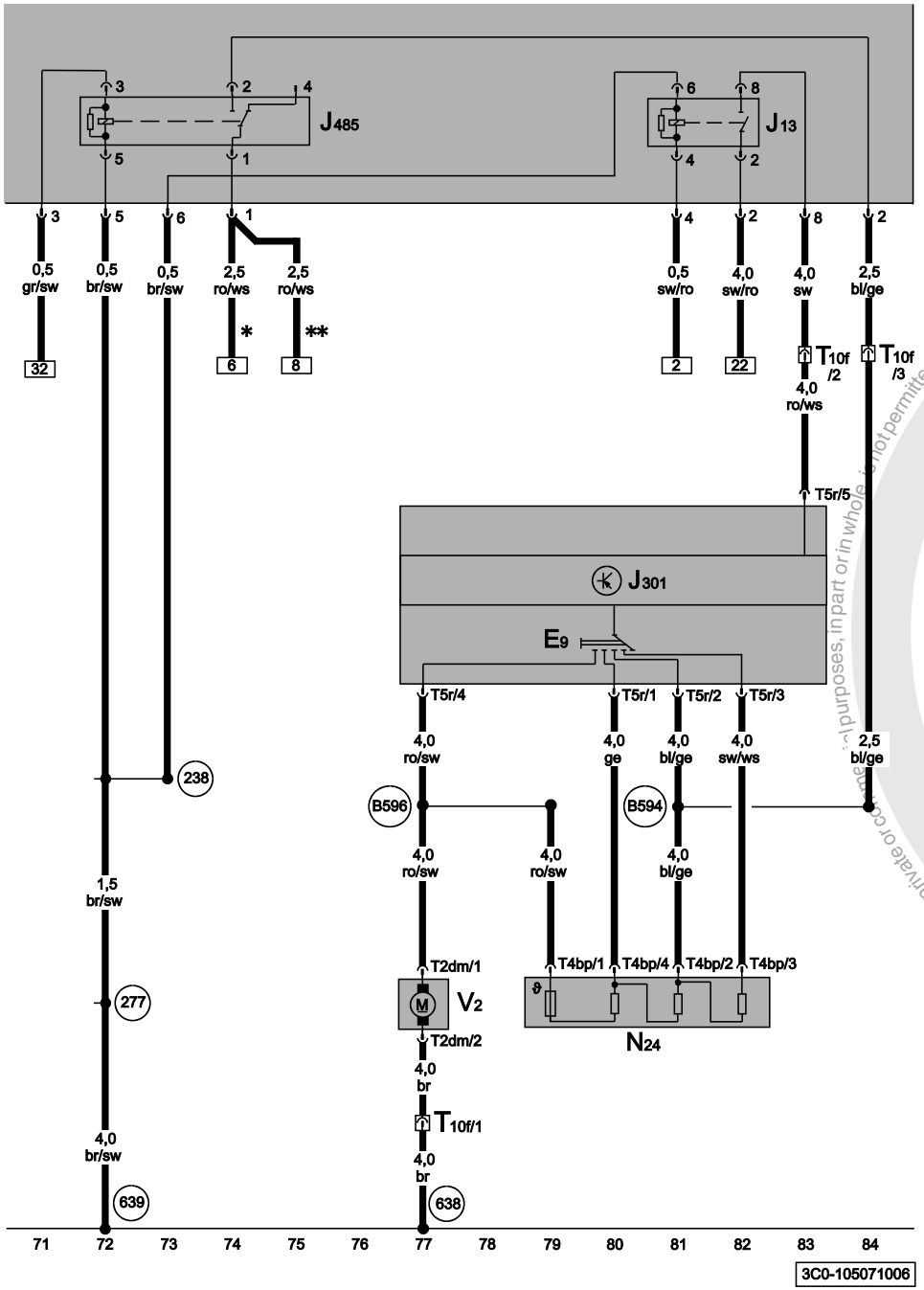


Multifunction display call-up button, steering column electronics control unit, instant heating button, data bus diagnostic interface

E86	Multifunction display call-up button
E92	Reset button
E537	Instant heating button
J126	Fresh air blower control unit
J255	Climatronic control unit
J285	Control unit in dash panel insert
J301	Climatronic control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface, on left under dash panel
K	Dash panel insert
T6be	6-pin connector
T16h	16-pin connector
T20b	20-pin connector
T20c	20-pin connector
T20d	20-pin connector
T20e	20-pin connector
T36	36-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Timer call-up button for auxiliary heater operation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Auxiliary heater control unit, fresh air blower relay, auxiliary heater operation relay

E9	Fresh air blower switch
J13	Fresh air blower relay
J301	Air conditioning system control unit
J485	Auxiliary heater operation relay
N24	Fresh air blower series resistor with overheating fuse
T2dm	2-pin connector
T4bp	4-pin connector
T5r	5-pin connector
T10f	10-pin connector, coupling point climatic box
V2	Fresh air blower
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
638	Earth point, on right A-pillar
639	Earth point, left A-pillar
B594	Connection 1, Climatic wiring harness
B596	Connection 3, Climatic wiring harness
*	Only on vehicles with no second battery
**	Only on vehicles with second battery

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Supplementary heater

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

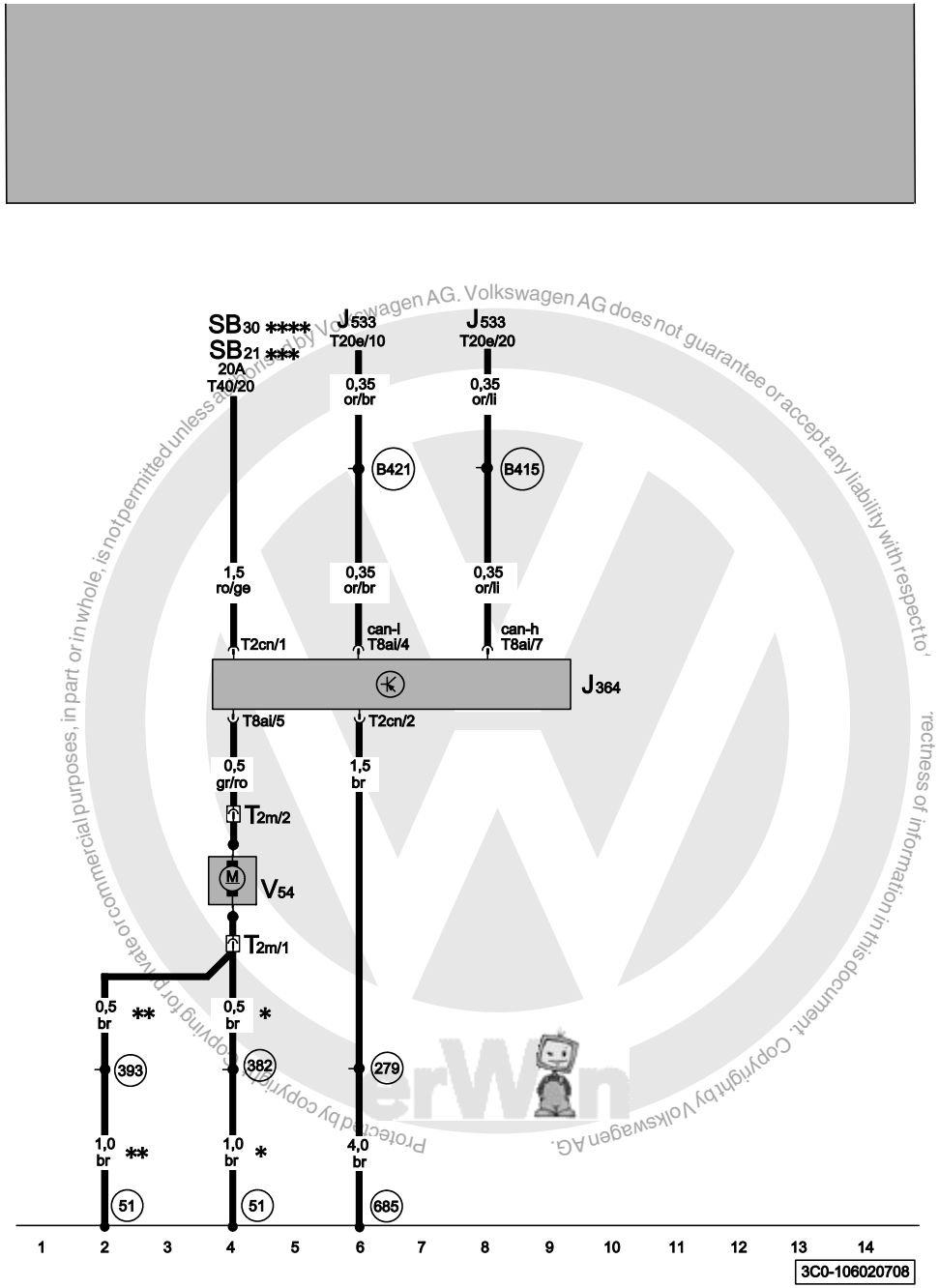
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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or = orange
rs = pink

Auxiliary heater control unit, data bus diagnostic interface, fuses, metering pump

J364	Auxiliary heater control unit
J533	Data bus diagnostic interface
SB21	Fuse 21 on fuse holder B
SB30	Fuse 30 on fuse holder B
T2m	2-pin connector, black, near fuel tank
T2cn	2-pin connector
T8ai	8-pin connector
T20e	20-pin connector
T40	40-pin connector
V54	Metering pump
51	Earth point, on right in luggage compartment
279	Earth connection 5, in interior wiring harness
382	Earth connection 17, in main wiring harness
393	Earth connection 28, in main wiring harness
685	Earth point 1 at front of right longitudinal member
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only saloon models
**	Only Variant
***	Only models with E-box low
****	Only models with E-box high

Fuse concept, 1 battery, petrol engine

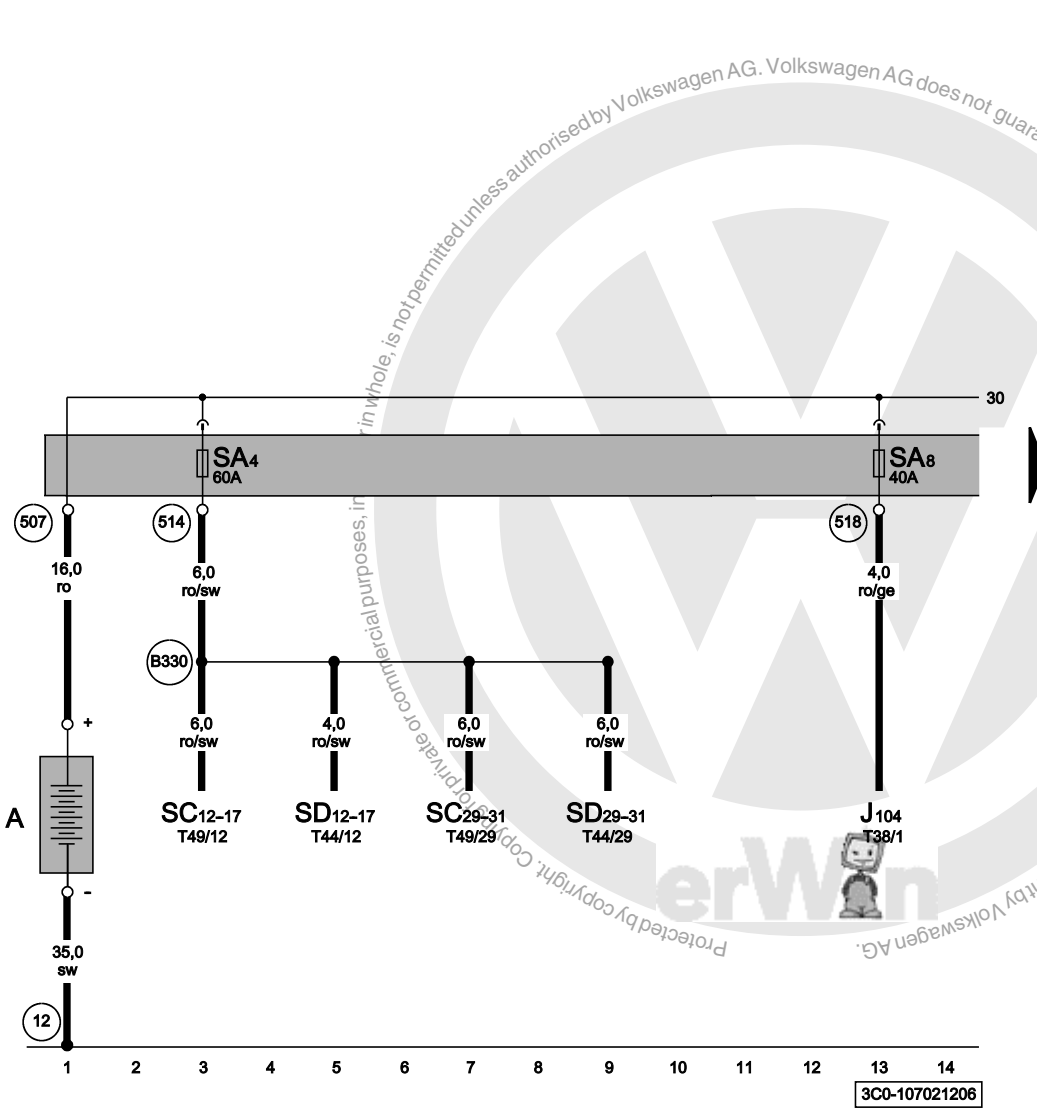
⇒ **Fuse SA, in E-box low**
⇒ **Fuse SB, in E-box low**
From May 2006

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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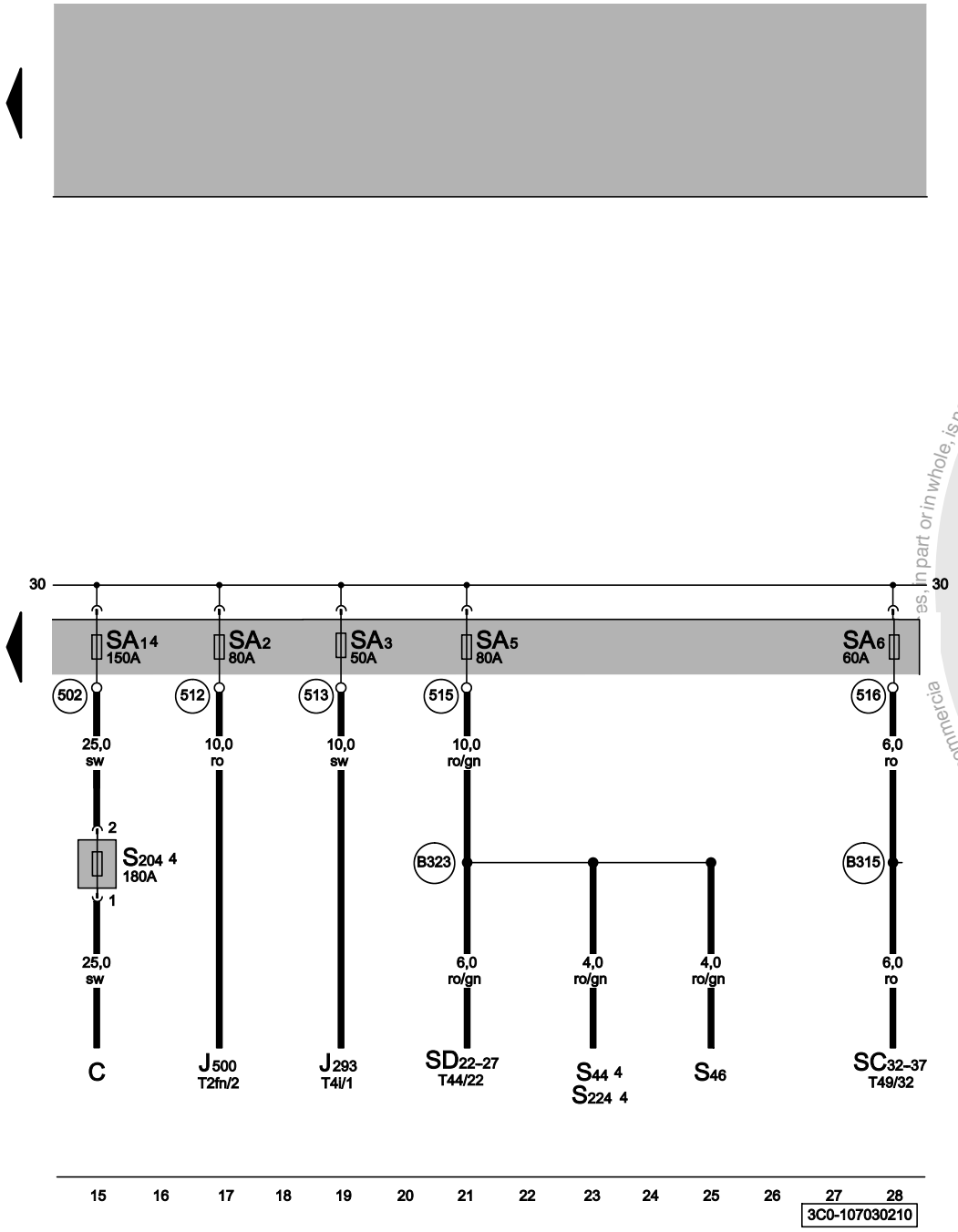


Battery, SA-fuses

A	Battery
J104	ABS control unit
SA4	Fuse 4 on fuse holder A
SA8	Fuse 8 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T38	38-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
12	Earth point, on left in engine compartment
507	Threaded connection (30), on battery fuse holder
514	Threaded connection 4 (30a) on relay plate
518	Threaded connection 8 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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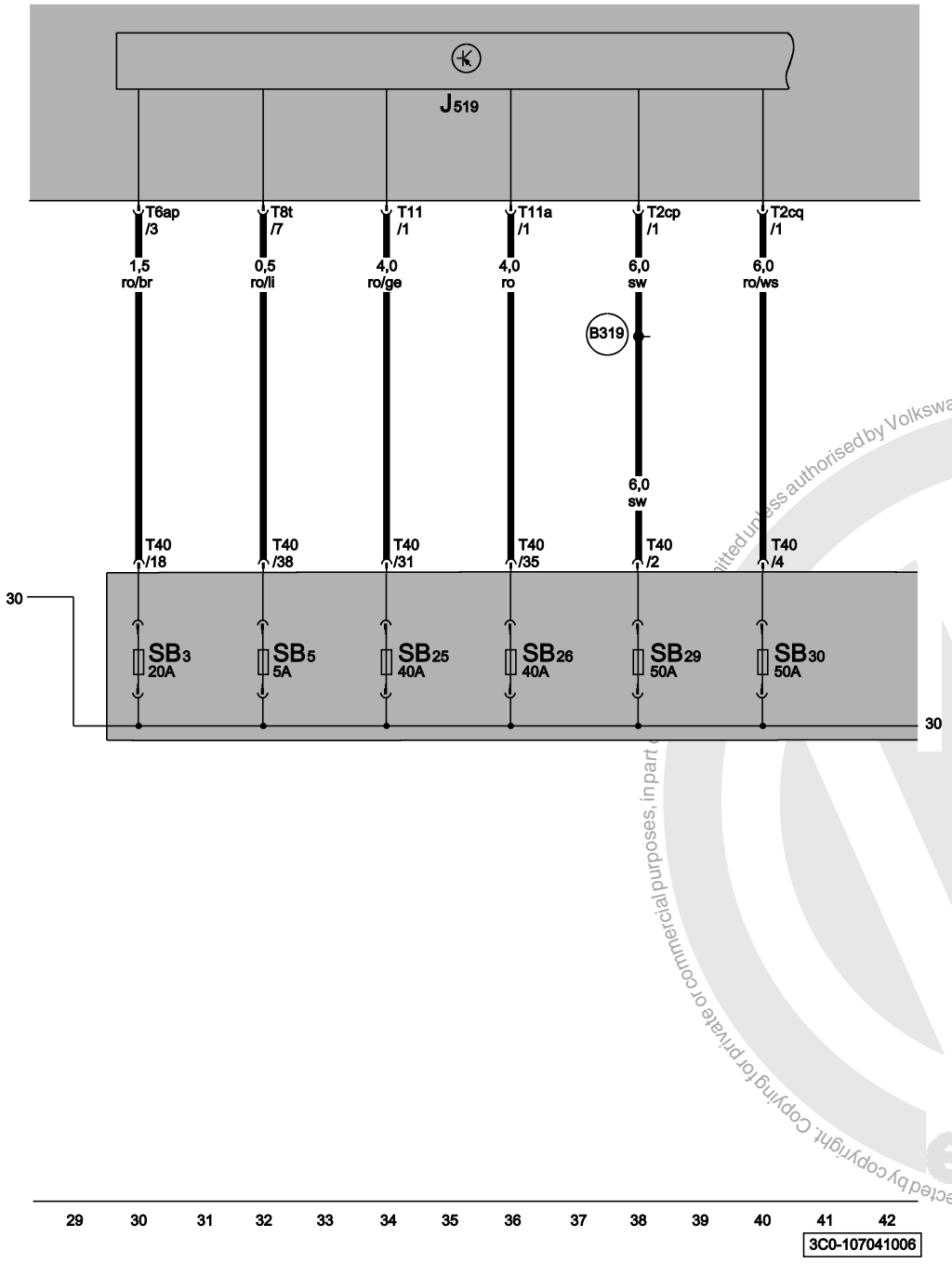
SA fuses

C	Alternator
J293	Radiator fan control unit
J500	Power steering control unit
S44	Driver seat adjustment thermal fuse 1, on left under dash panel
S46	Front passenger seat adjustment thermal fuse 1
S204	Fuse 1 (30)
S224	Fuse in fuse holder on left under dash panel
SA1	Fuse 1 on fuse holder A
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA5	Fuse 5 on fuse holder A
SA6	Fuse 6 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T2fn	2-pin connector
T4i	4-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
502	Threaded connection 1 (30a) on relay plate
512	Threaded connection 2 (30a) on relay plate
513	Threaded connection 3 (30a) on relay plate
515	Threaded connection 5 (30a) on relay plate
516	Threaded connection 6 (30a) on relay plate
B315	Connection 1 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness

* - Depends on level of equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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rs	=	pink

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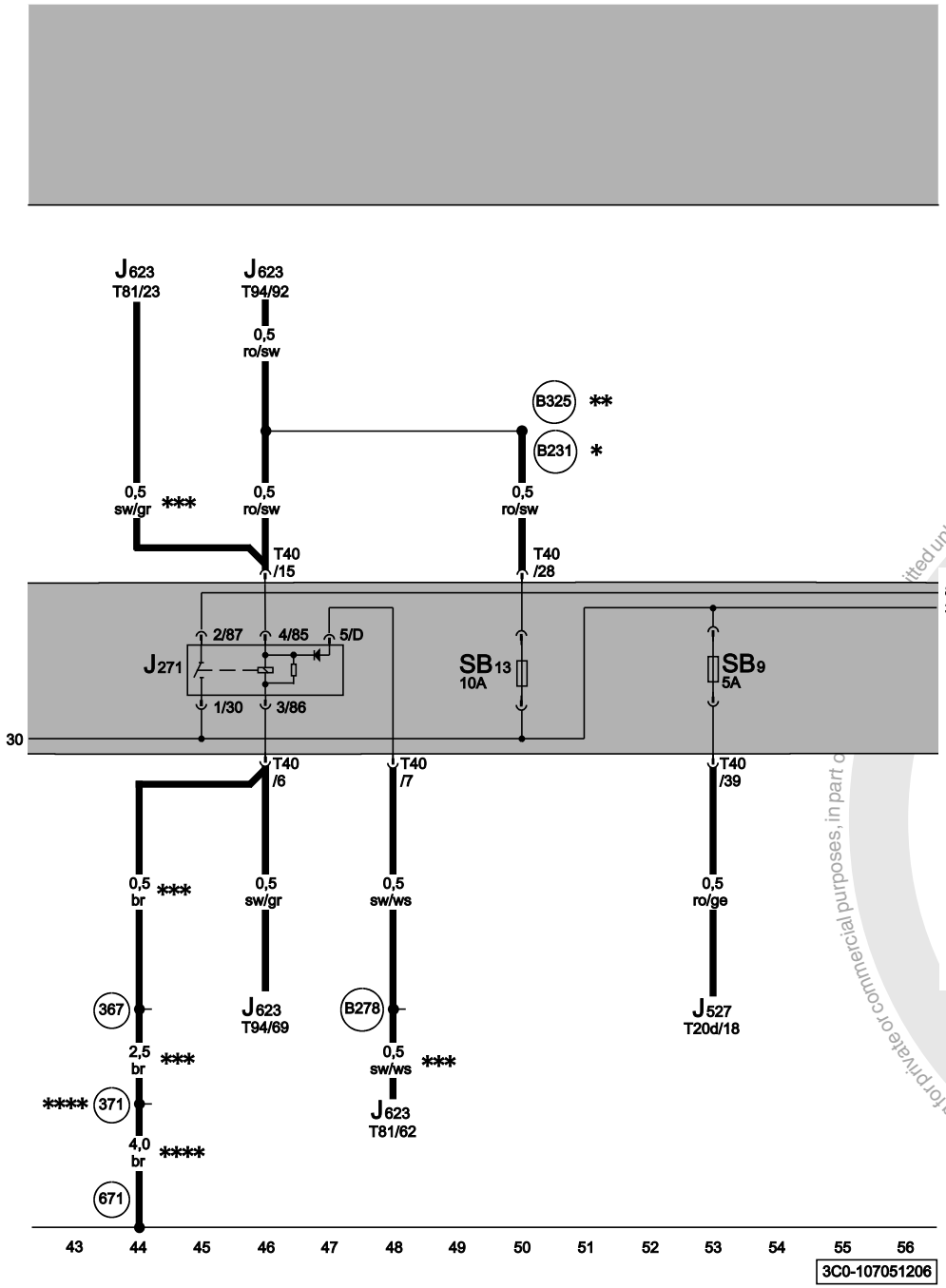


Onboard supply control unit, SB-fuses

J519	Onboard supply control unit
SB3	Fuse 3 on fuse holder B
SB5	Fuse 5 on fuse holder B
SB25	Fuse 25 on fuse holder B
SB26	Fuse 26 on fuse holder B
SB29	Fuse 29 on fuse holder B
SB30	Fuse 30 on fuse holder B
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T6ap	6-pin connector, black
T8t	8-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T40	40-pin connector, under E-box, in engine compartment
B319	Connection 5 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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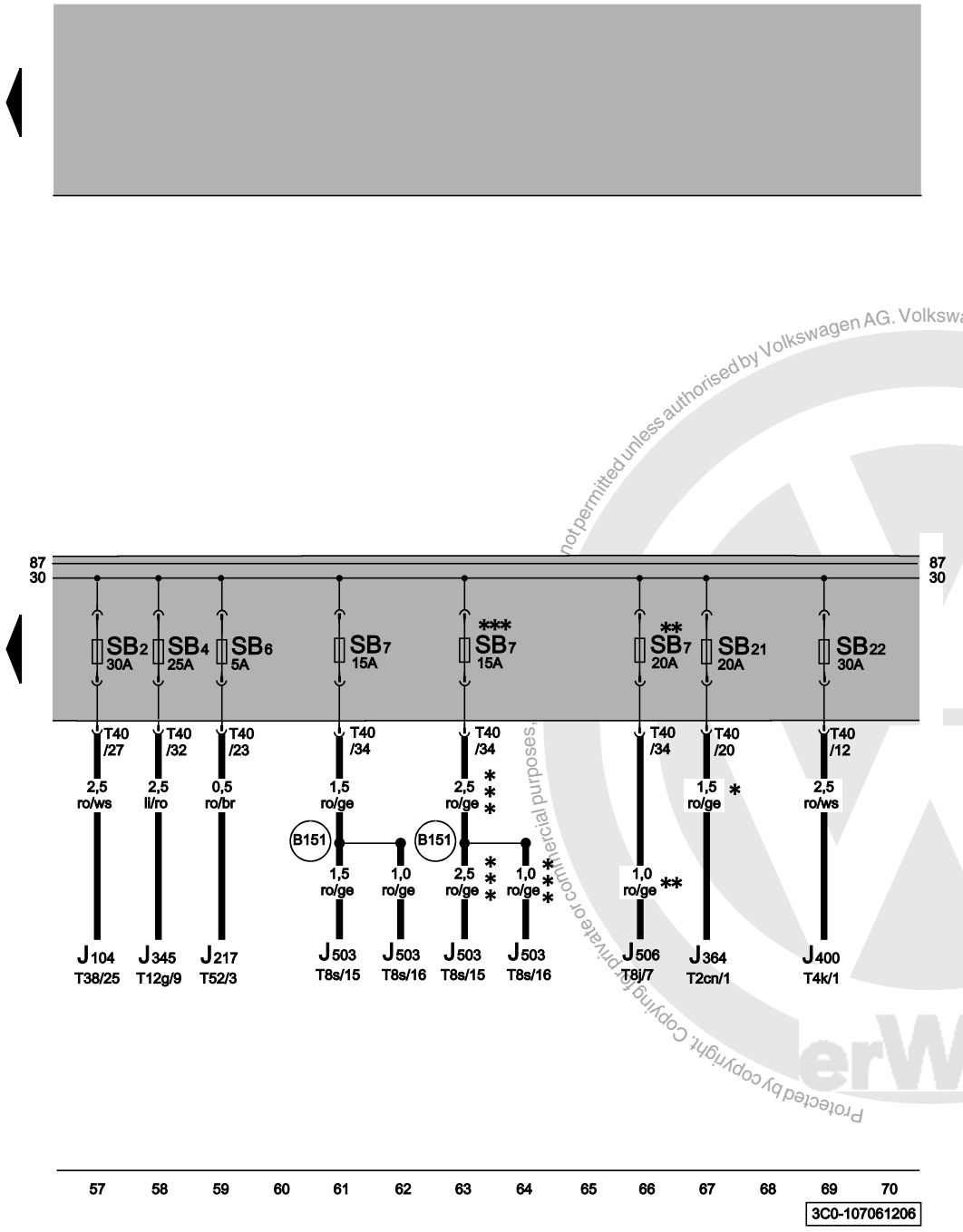


Motronic current supply relay, SB-fuses

J271	Motronic current supply relay
J527	Steering column electronics control unit
J623	Engine control unit
SB9	Fuse 9 on fuse holder B
SB13	Fuse 13 on fuse holder B
T20d	20-pin connector
T40	40-pin connector, under E-box, in engine compartment
T81	81-pin connector
T94	94-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B231	Positive connection 5 (30a), in interior wiring harness
B278	Connection 2 (15a), in main wiring harness
B325	Connection 11 (30a), in main wiring harness
*	Only models with engine codes BLF, BLP
**	Only models with engine codes BLR, BLX, BLY, BVX, BVY and BVZ
***	Only models with engine codes BSE, BSF
****	Applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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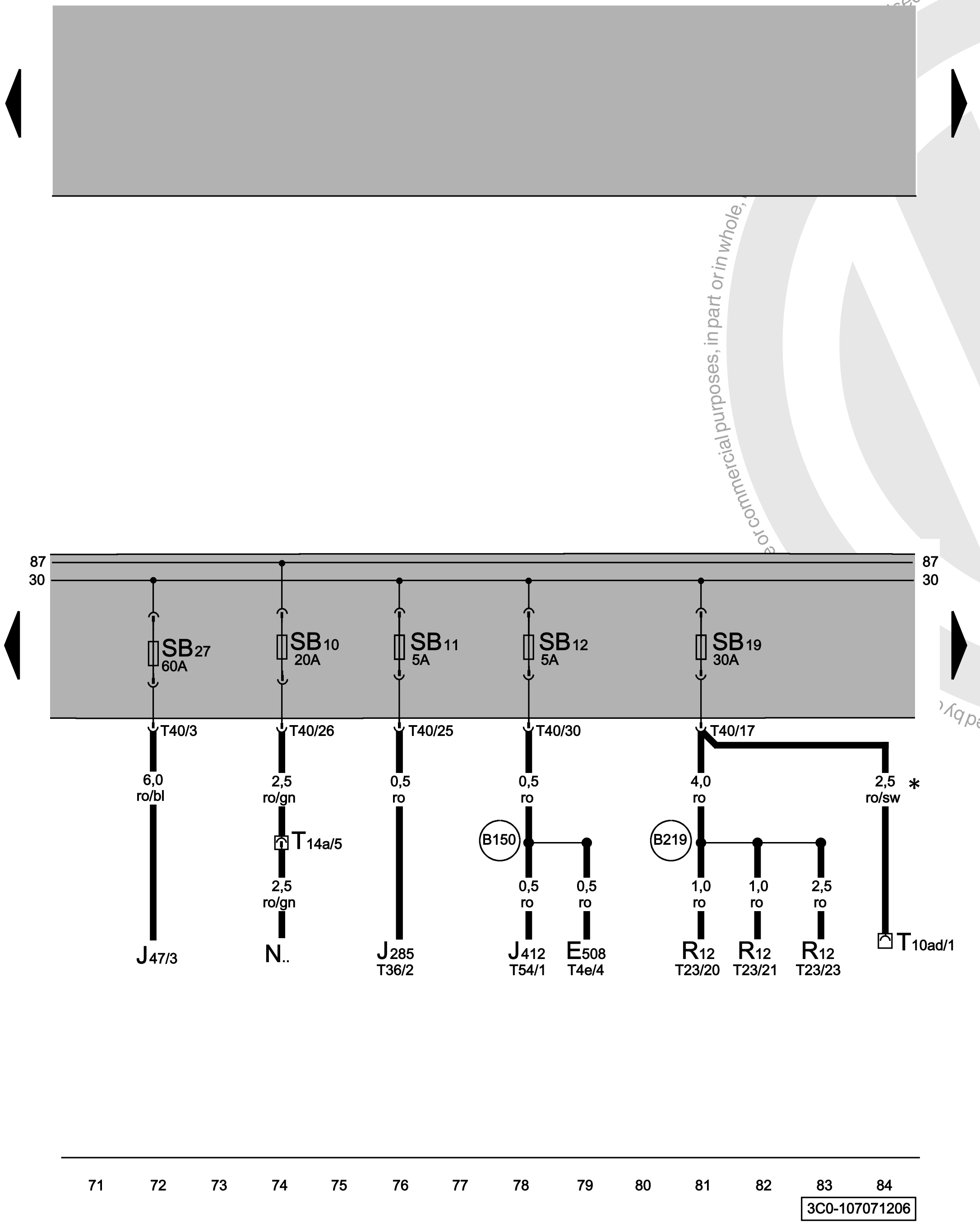


SB fuses

J104	ABS control unit
J217	Automatic gearbox control unit
J345	Trailer detector control unit
J364	Auxiliary heater control unit
J400	Wiper motor control unit
J503	Control unit with display for radio and navigation
J506	Control unit with display for TV, radio, navigation system
SB2	Fuse 2 on fuse holder B
SB4	Fuse 4 on fuse holder B
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB21	Fuse 21 on fuse holder B
SB22	Fuse 22 on fuse holder B
T2cn	2-pin connector
T4k	4-pin connector
T8j	8-pin connector
T8s	8-pin connector
T12g	12-pin connector
T38	38-pin connector
T40	40-pin connector, under E-box, in engine compartment
T52	52-pin connector
B151	Positive connection 3 (30a), in interior wiring harness
*	Only models with auxiliary heater
**	Only Japanese markets
***	Applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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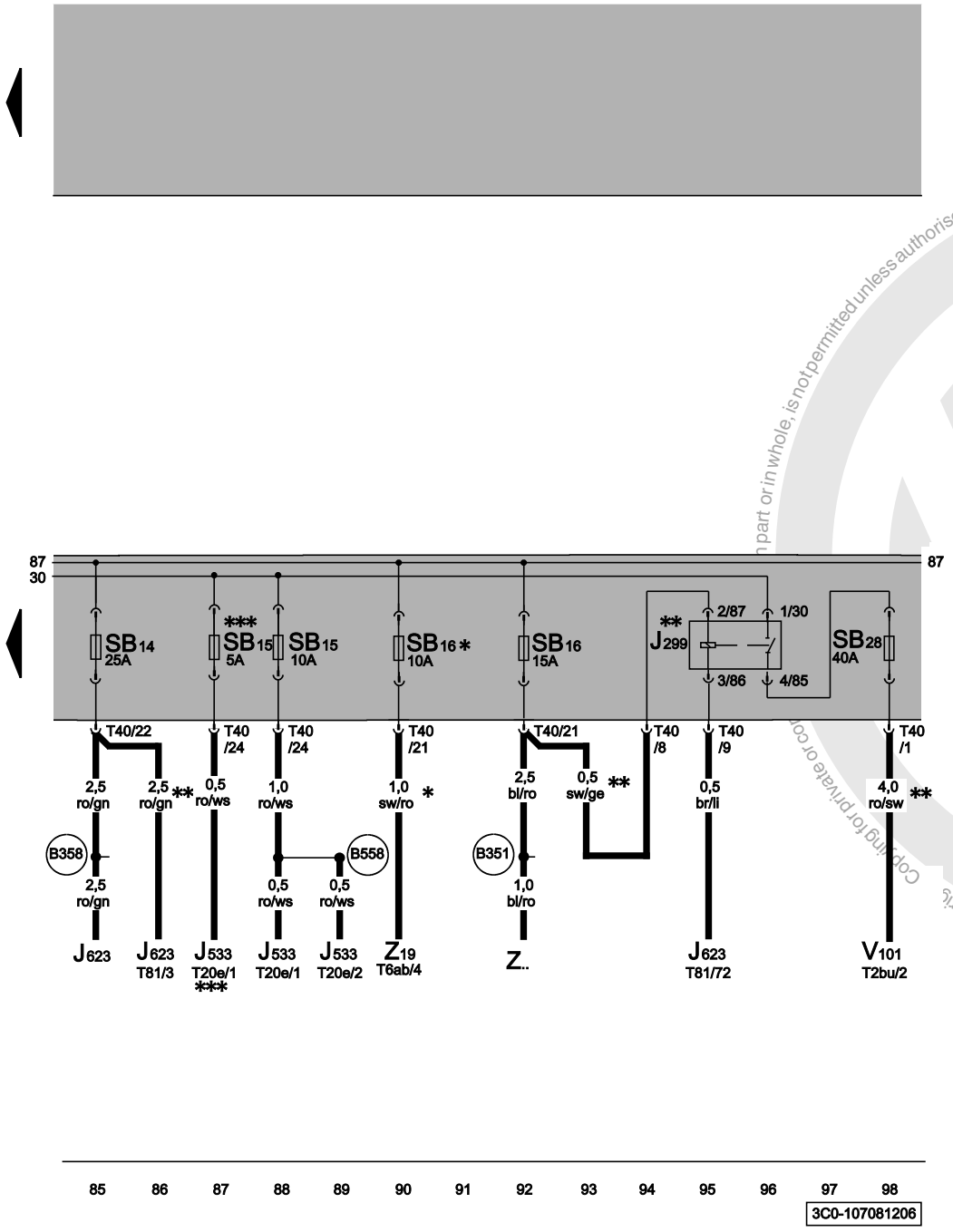


SB fuses

E508	Operating unit for preparation for mobile telephone
J47	Heated windscreen relay
J285	Control unit in dash panel insert
J412	Control unit for mobile telephone operating electronics
N	Ignition coils with final output stages for cylinders 1-4
R12	Amplifier
SB10	Fuse 10 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB12	Fuse 12 on fuse holder B
SB19	Fuse 19 on fuse holder B
SB27	Fuse 27 on fuse holder B
T4e	4-pin connector
T10ad	10-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T23	23-pin connector
T36	36-pin connector
T40	40-pin connector, under E-box, in engine compartment
T54	54-pin connector
B150	Positive connection 2 (30a), in interior wiring harness
B219	Positive connection 4 (30a), in interior wiring harness
*	wire for special installation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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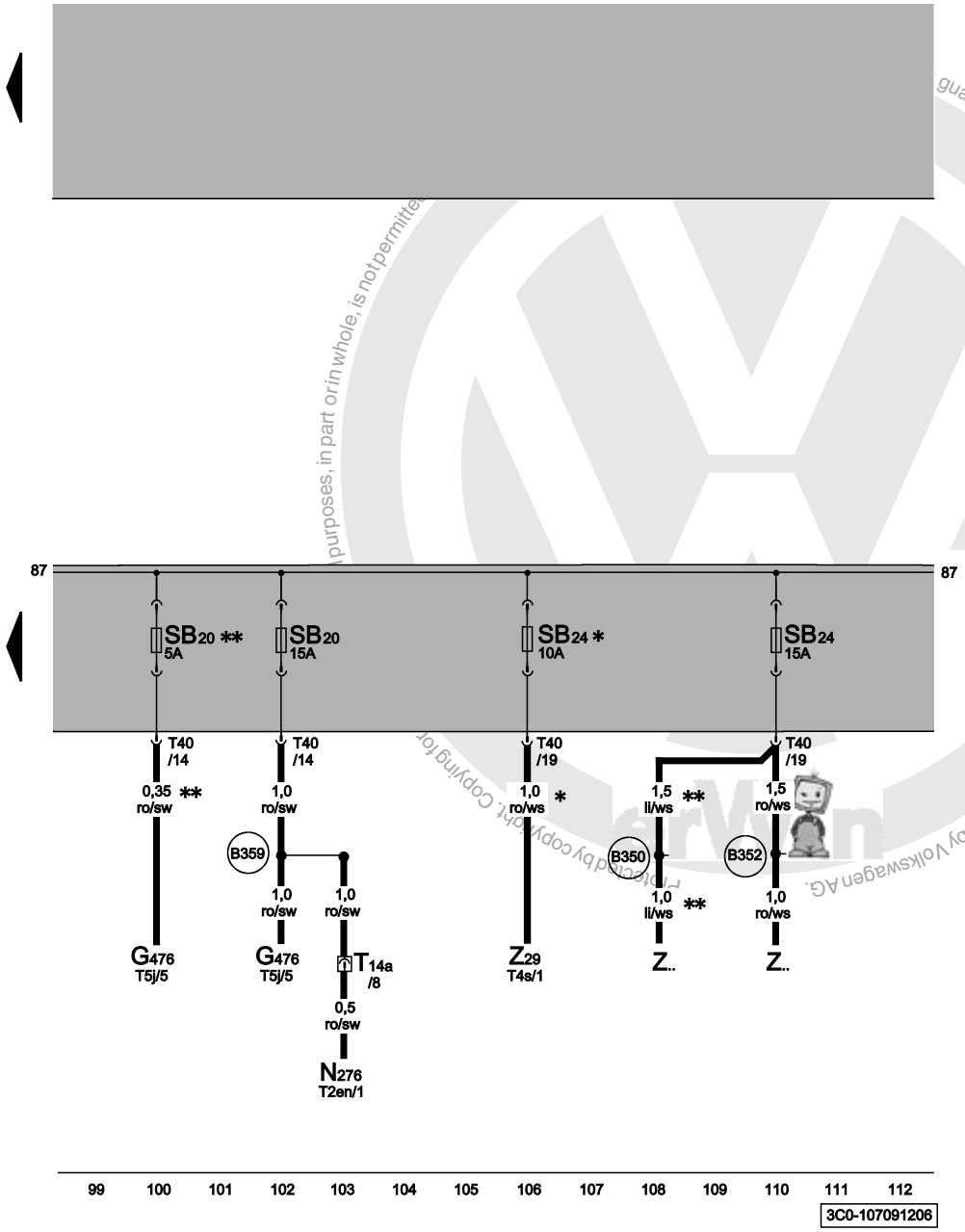


Secondary air pump relay, SB-fuses

J299	Secondary air pump relay
J533	Data bus diagnosis interface
J623	Engine control unit
SB14	Fuse 14 on fuse holder B
SB15	Fuse 15 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB28	Fuse 28 on fuse holder B
T2bu	2-pin connector
T6ab	6-pin connector
T20e	20-pin connector
T40	40-pin connector, under E-box, in engine compartment
T81	81-pin connector
V101	Secondary air pump motor
Z	Lambda probe heater
Z19	Lambda probe heater
B351	Connection 2 (87a), in main wiring harness
B358	Connection 9 (87a), in main wiring harness
B558	Connection 22 (30a), in main wiring harness
*	Only models with engine code BLY, BVZ
**	Only models with engine codes BSE, BSF
***	Applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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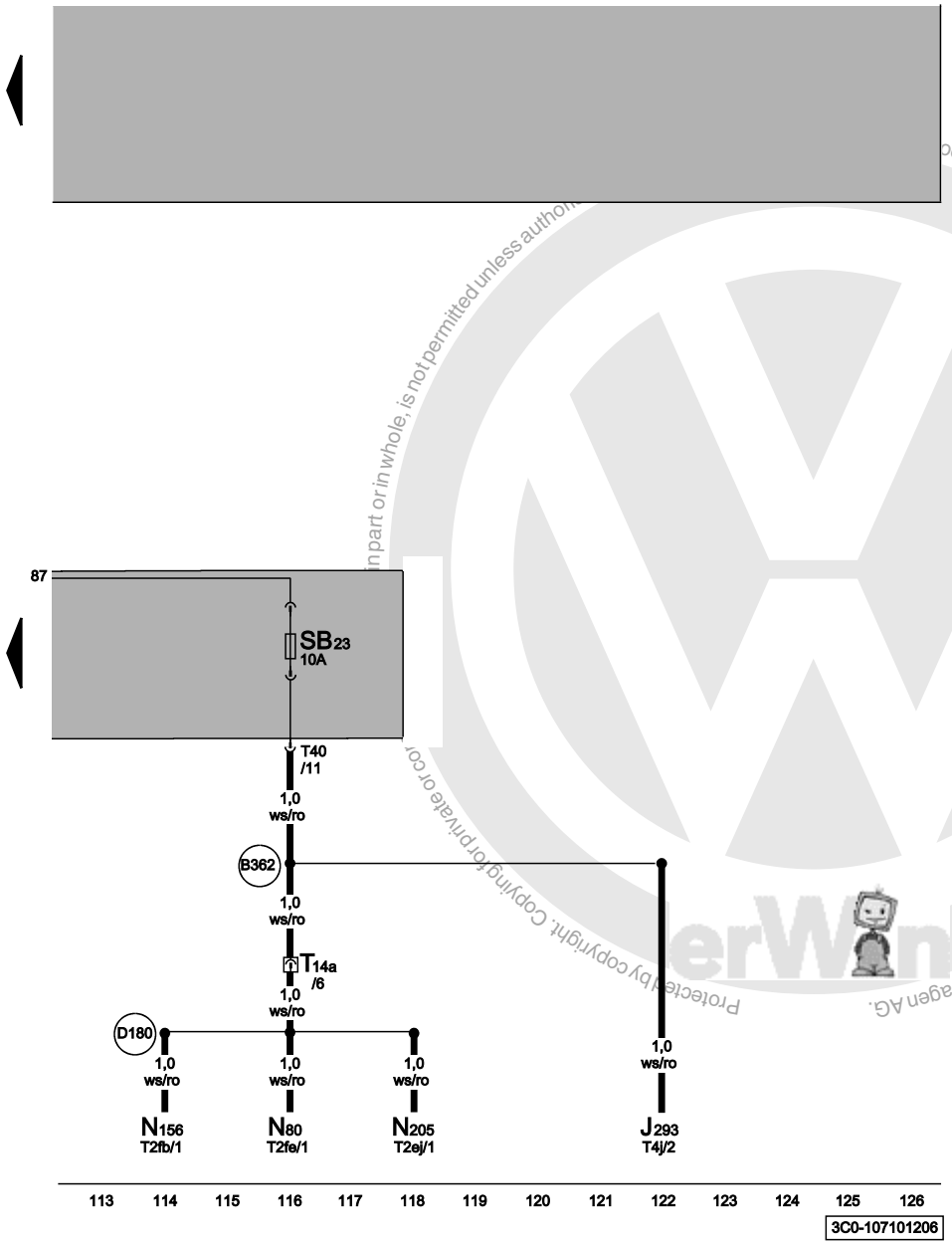


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

SB fuses

G476	Clutch position sender
N276	Fuel pressure regulating valve
SB20	Fuse 20 on fuse holder B
SB24	Fuse 24 on fuse holder B
T2en	2-pin connector
T4s	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T40	40-pin connector, under E-box, in engine compartment
Z	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
B350	Connection 1 (87a), in main wiring harness
B352	Connection 3 (87a), in main wiring harness
B359	Connection 10 (87a), in main wiring harness
*	Only models with engine code BLY, BVZ
**	Only models with engine codes BSE, BSF

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SB fuses

J293	Radiator fan control unit
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N156	Variable intake manifold changeover valve
SB23	Fuse 23 on fuse holder B
T2ej	2-pin connector
T2fb	2-pin connector
T2fe	2-pin connector
T4j	4-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T40	40-pin connector, under E-box, in engine compartment
B362	Connection 13 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

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Fuse concept, 1 battery, diesel engine

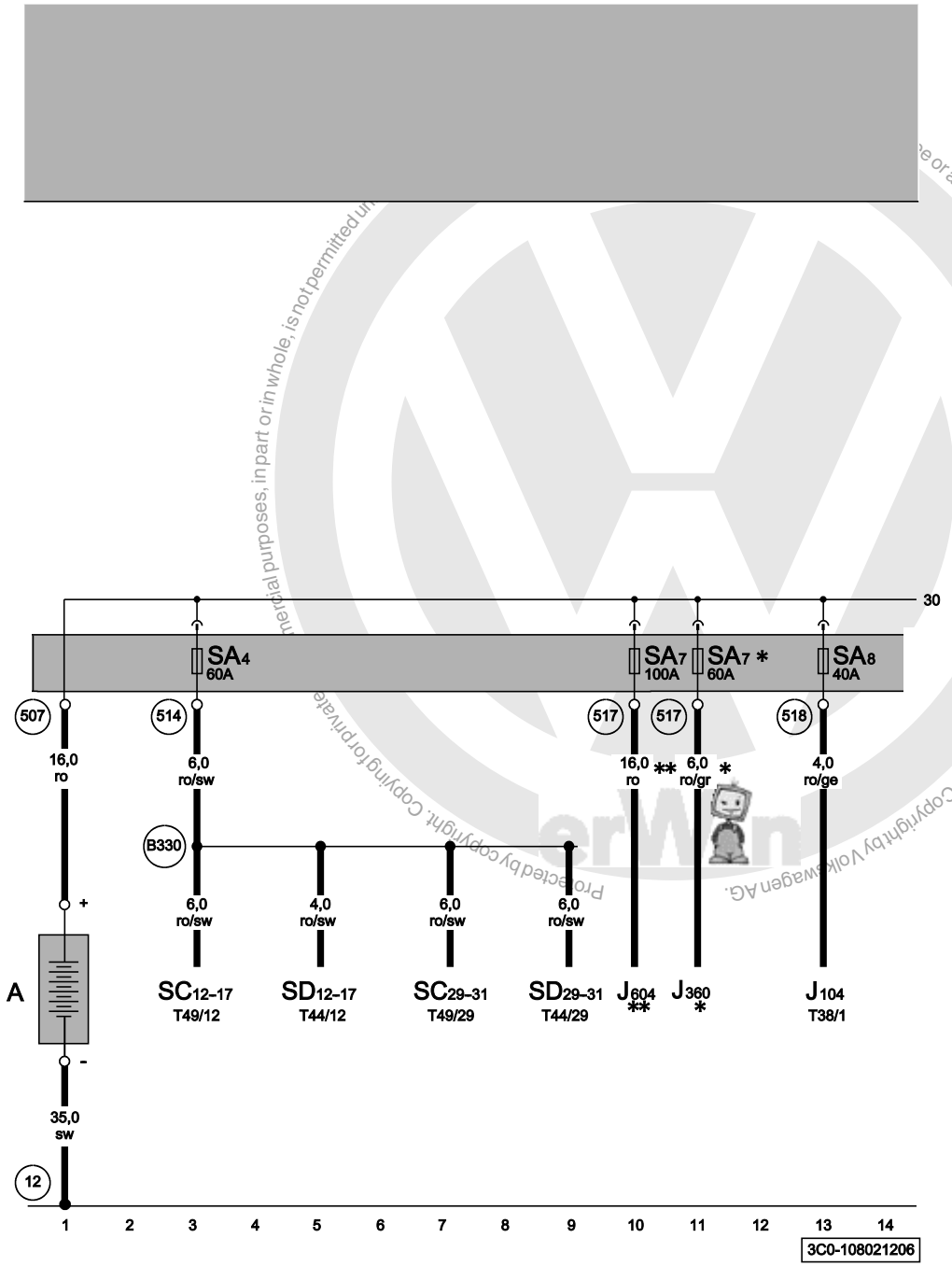
⇒ **Fuse SA, in E-box low**
⇒ **Fuse SB, in E-box low**
From May 2006

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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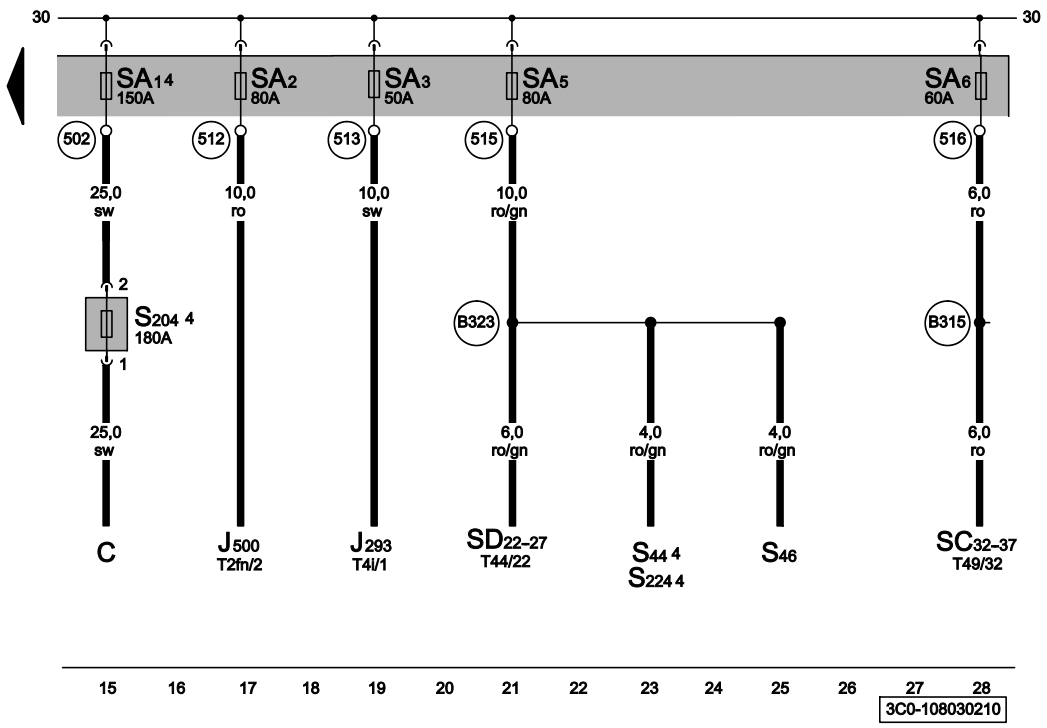


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Battery, SA-fuses

A	Battery
J104	ABS control unit
J360	High heat output relay
J604	Auxiliary air heater control unit
SA4	Fuse 4 on fuse holder A
SA7	Fuse 7 on fuse holder A
SA8	Fuse 8 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T38	38-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
12	Earth point, on left in engine compartment
507	Threaded connection (30), on battery fuse holder
514	Threaded connection 4 (30a) on relay plate
517	Threaded connection 7 (30a) on relay plate
518	Threaded connection 8 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
*	Applicable from November 2006
**	Applicable to October 2006

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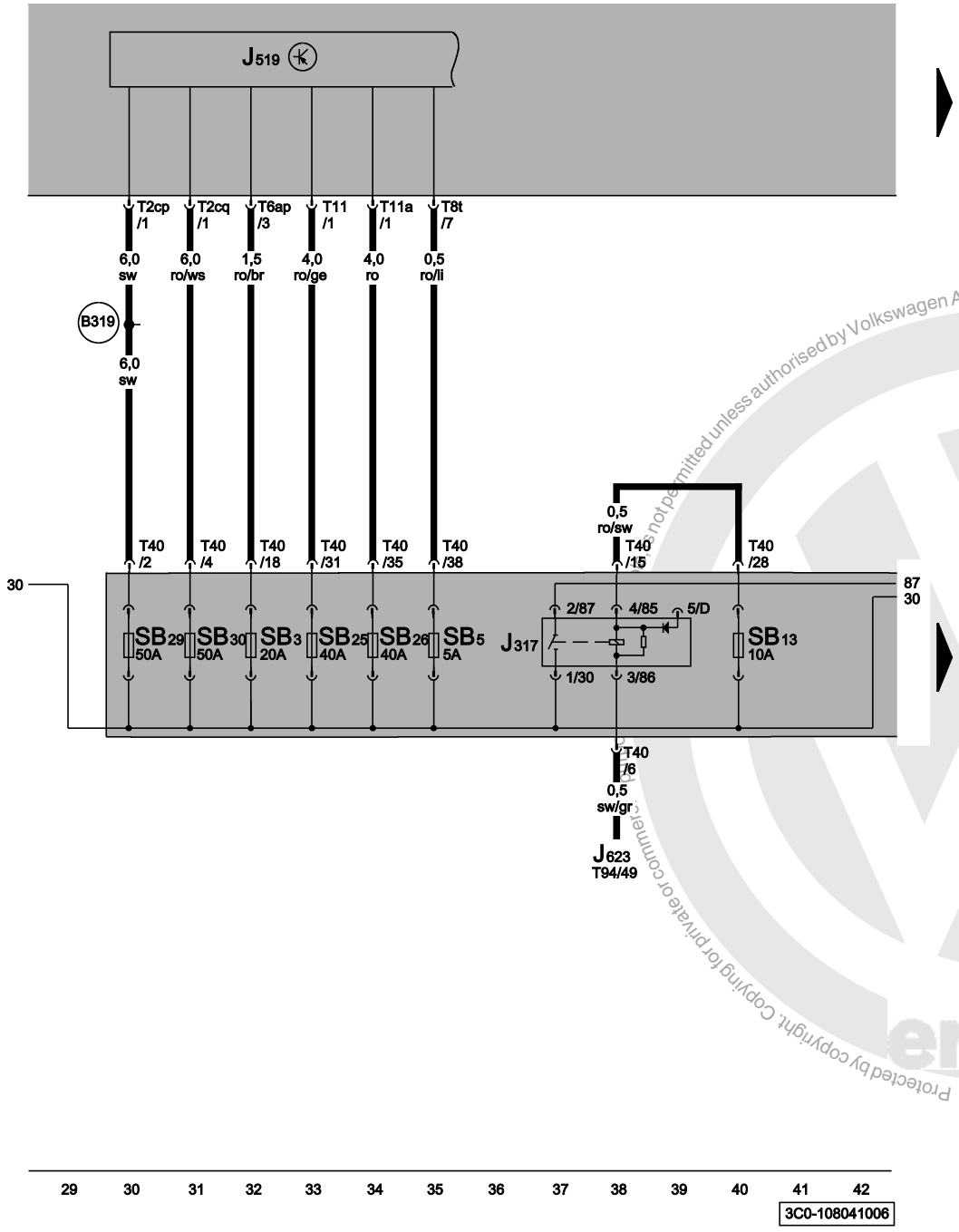
SA fuses

C	Alternator
J293	Radiator fan control unit
J500	Power steering control unit
S44	Driver seat adjustment thermal fuse 1, on left under dash panel
S46	Front passenger seat adjustment thermal fuse 1
S204	Fuse 1 (30)
S224	Fuse in fuse holder on left under dash panel
SA1	Fuse 1 on fuse holder A
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA5	Fuse 5 on fuse holder A
SA6	Fuse 6 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T2fn	2-pin connector
T4i	4-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
502	Threaded connection 1 (30a) on relay plate
512	Threaded connection 2 (30a) on relay plate
513	Threaded connection 3 (30a) on relay plate
515	Threaded connection 5 (30a) on relay plate
516	Threaded connection 6 (30a) on relay plate
B315	Connection 1 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness

* - Depends on level of equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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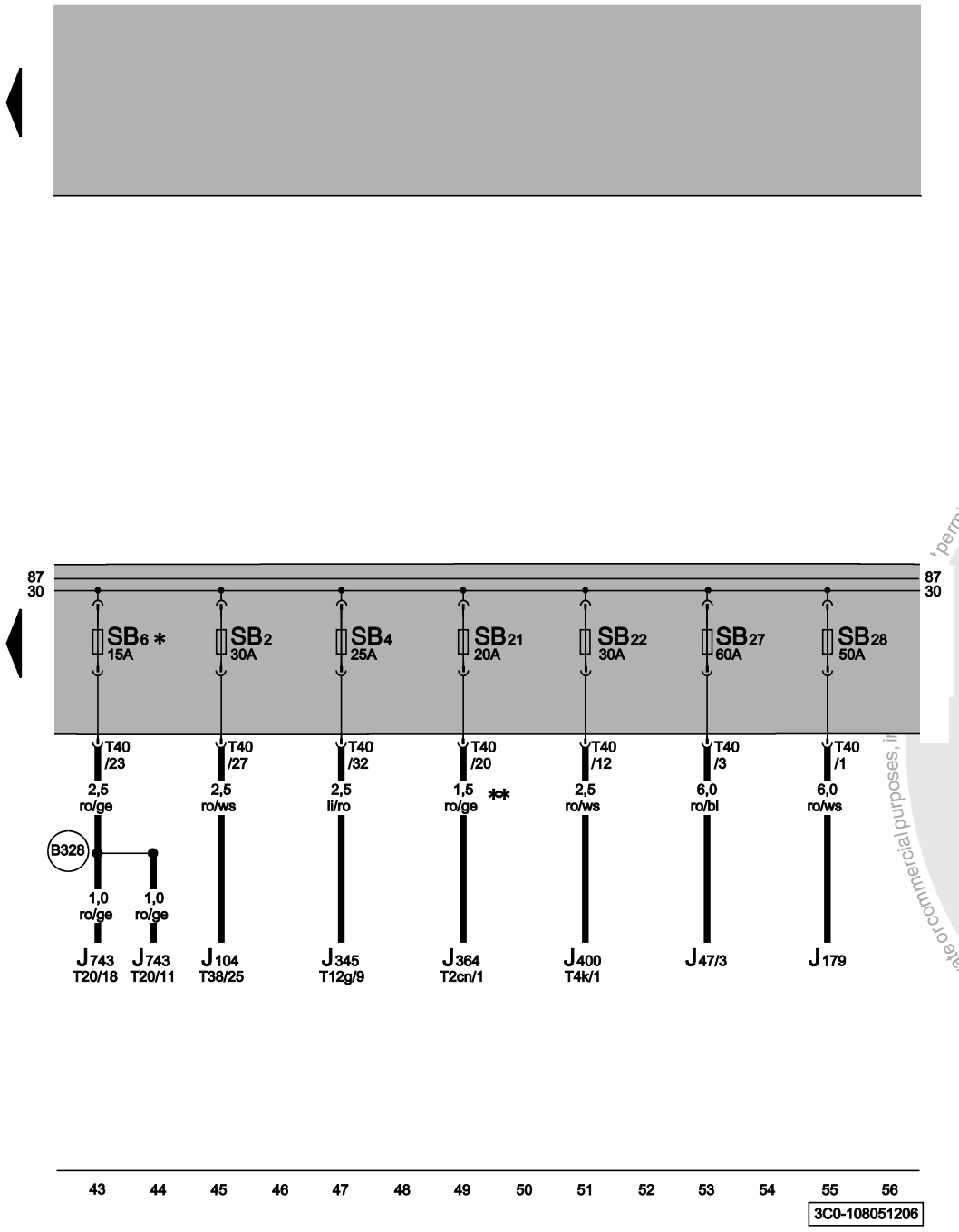


Terminal 30 voltage supply relay, onboard supply control unit

J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
J623	Engine control unit
SB3	Fuse 3 on fuse holder B
SB5	Fuse 5 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB25	Fuse 25 on fuse holder B
SB26	Fuse 26 on fuse holder B
SB29	Fuse 29 on fuse holder B
SB30	Fuse 30 on fuse holder B
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T6ap	6-pin connector, black
T8t	8-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T40	40-pin connector, under E-box, in engine compartment
T94	94-pin connector
B319	Connection 5 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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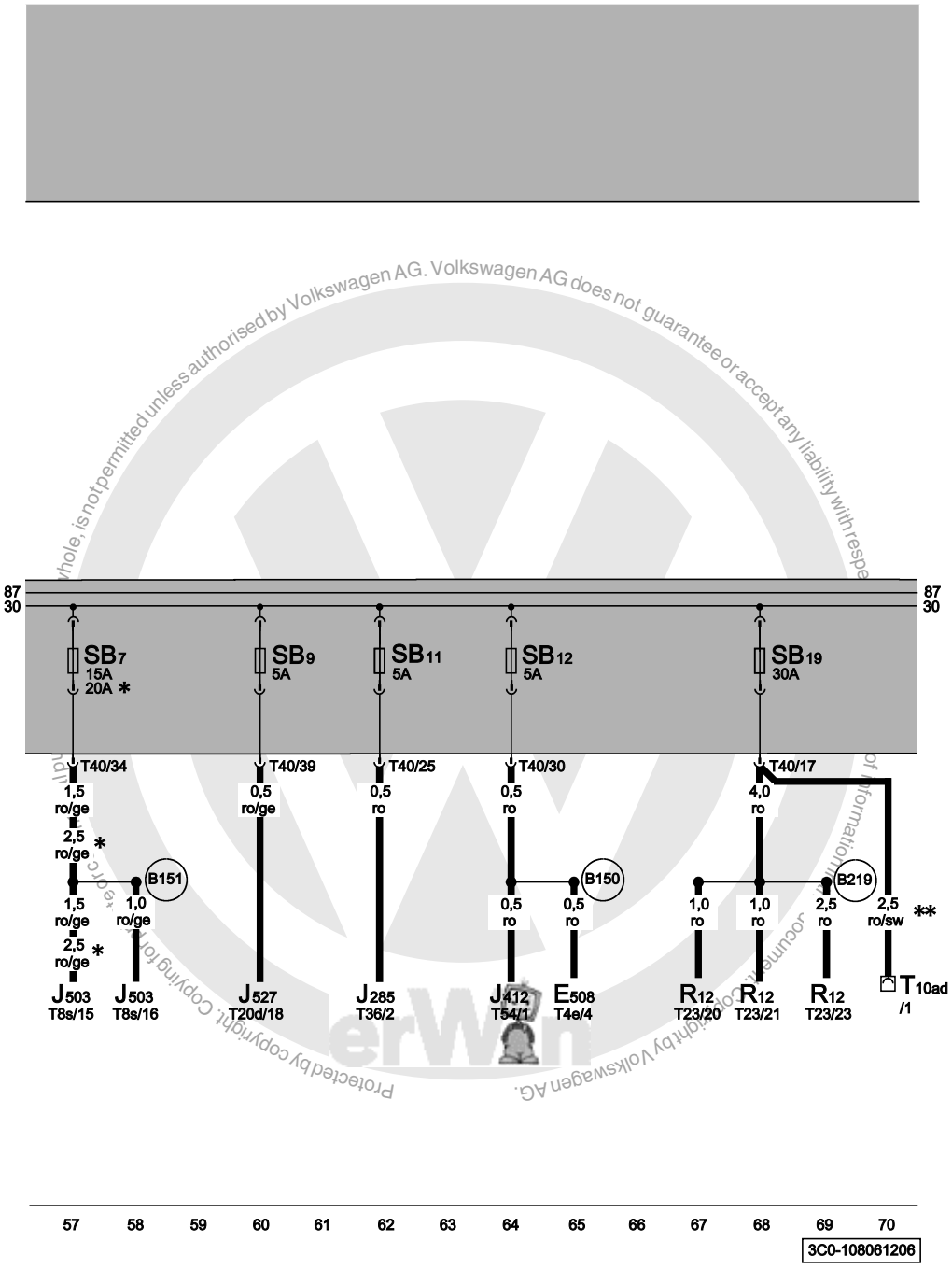


SB fuses

J47	Heated windscreen relay
J104	ABS control unit
J179	Automatic glow period control unit
J345	Trailer detector control unit
J364	Auxiliary heater control unit
J400	Wiper motor control unit
J743	Mechatronic unit for dual clutch gearbox
SB2	Fuse 2 on fuse holder B
SB4	Fuse 4 on fuse holder B
SB6	Fuse 6 on fuse holder B
SB21	Fuse 21 on fuse holder B
SB22	Fuse 22 on fuse holder B
SB27	Fuse 27 on fuse holder B
SB28	Fuse 28 on fuse holder B
T2cn	2-pin connector
T4k	4-pin connector
T12g	12-pin connector
T20	201-pin connector
T38	38-pin connector
T40	40-pin connector, under E-box, in engine compartment
B328	Connection 14 (30a), in main wiring harness
*	Only models with engine codes BMP, BMR, BKP, BMA, BUZ, BWV, BVE
**	Only models with auxiliary heater

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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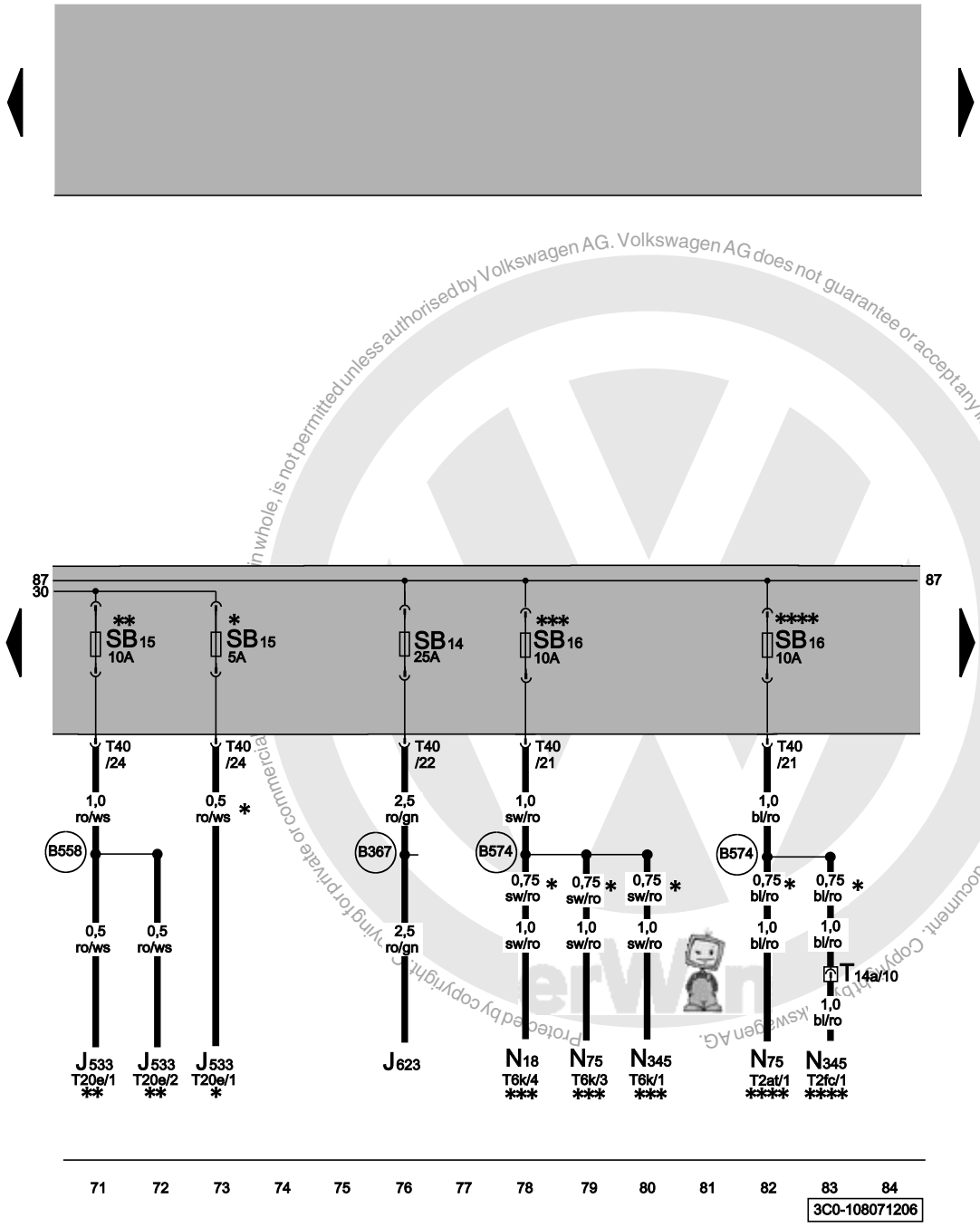


SB fuses

E508	Operating unit for preparation for mobile telephone
J285	Control unit in dash panel insert
J412	Control unit for mobile telephone operating electronics
J503	Control unit with display for radio and navigation
J527	Steering column electronics control unit
R12	Amplifier
SB7	Fuse 7 on fuse holder B
SB9	Fuse 9 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB12	Fuse 12 on fuse holder B
SB19	Fuse 19 on fuse holder B
T4e	4-pin connector
T8s	8-pin connector
T10ad	10-pin connector
T20d	20-pin connector
T23	23-pin connector
T36	36-pin connector
T40	40-pin connector, under E-box, in engine compartment
T54	54-pin connector
B150	Positive connection 2 (30a), in interior wiring harness
B151	Positive connection 3 (30a), in interior wiring harness
B219	Positive connection 4 (30a), in interior wiring harness
*	Applicable from November 2006
**	wire for special installation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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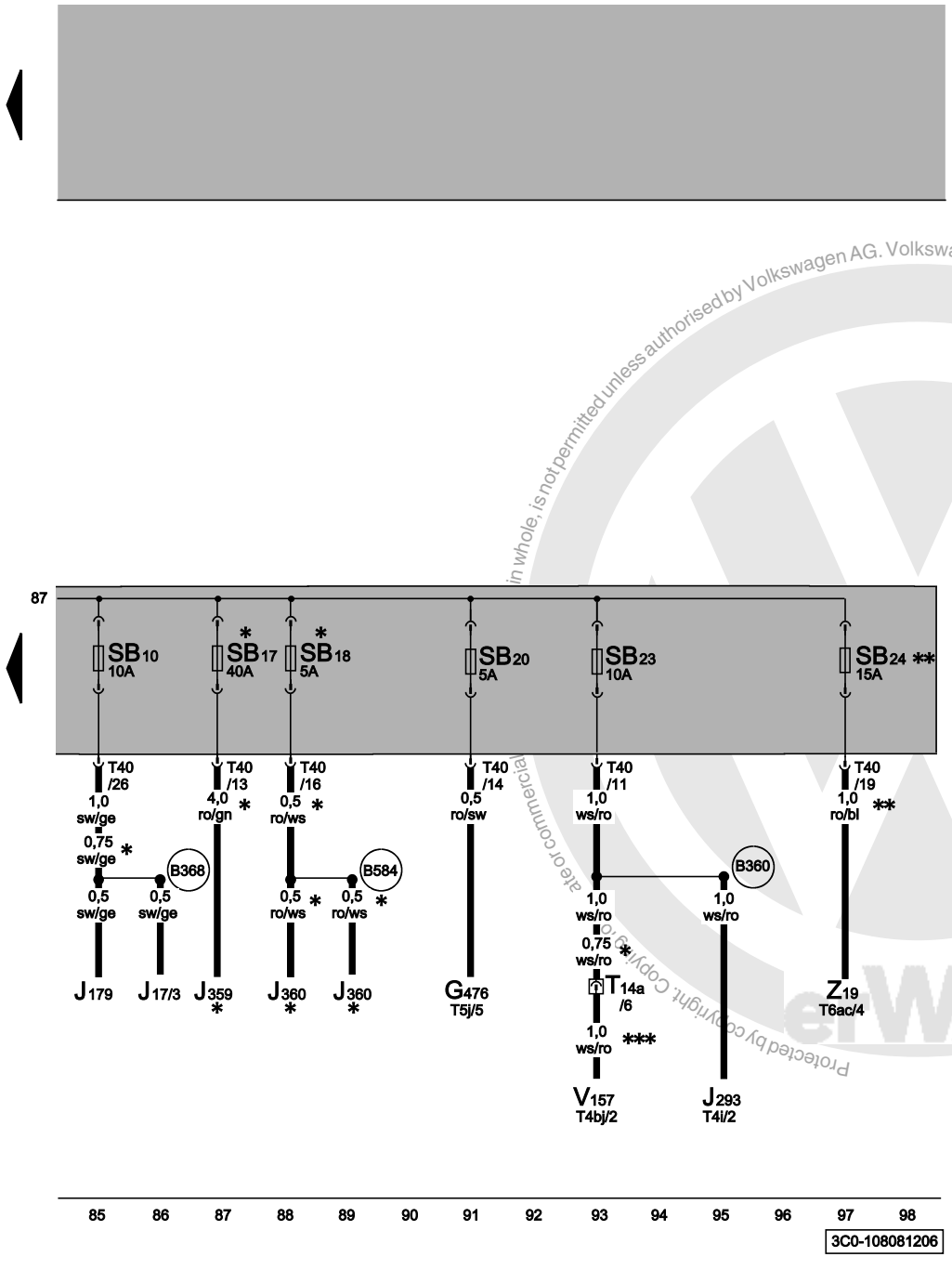


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

SB fuses

J533	Data bus diagnosis interface
J623	Engine control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler changeover valve
SB14	Fuse 14 on fuse holder B
SB15	Fuse 15 on fuse holder B
SB16	Fuse 16 on fuse holder B
T2at	2-pin connector
T2fc	2-pin connector
T6k	6-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T20e	20-pin connector
T40	40-pin connector, under E-box, in engine compartment
B367	Connection 18 (87a), in main wiring harness
B558	Connection 22 (30a), in main wiring harness
B574	Connection 20 (87a), in main wiring harness
*	Applicable from November 2006
**	Applicable to October 2006
***	Only models with engine codes BKC, BXE
****	Only models with engine codes BMP, BLS, BMR, BKP, BMA, BVE, BWV

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SB fuses

G476	Clutch position sender
J17	Fuel pump relay
J179	Automatic glow period control unit
J293	Radiator fan control unit
J359	Low heat output relay
J360	High heat output relay
SB10	Fuse 10 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB18	Fuse 18 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
T4i	4-pin connector
T4bj	4-pin connector
T5j	5-pin connector
T6ac	6-pin connector, coupling point for Lambda probe
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40	40-pin connector, under E-box, in engine compartment
V157	Intake manifold flap motor
Z19	Lambda probe heater
B360	Connection 11 (87a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B584	Positive connection 1 (87a), in interior wiring harness
*	Applicable from November 2006
**	Only models with engine codes BLS, BMP, BMR
***	Only models with engine code BKC

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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Fuse concept, 1 battery, petrol engine

⇒ **Fuse SA, in E-box high**
⇒ **Fuse SB, in E-box high**
From May 2006

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

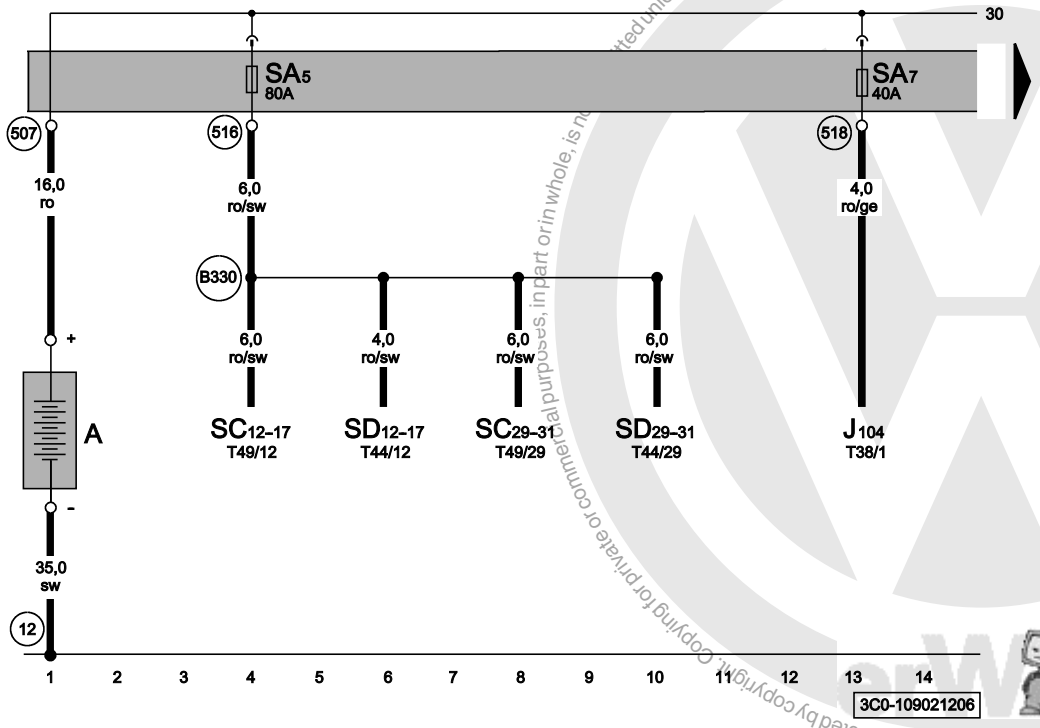
⇒ Guided Fault Finding

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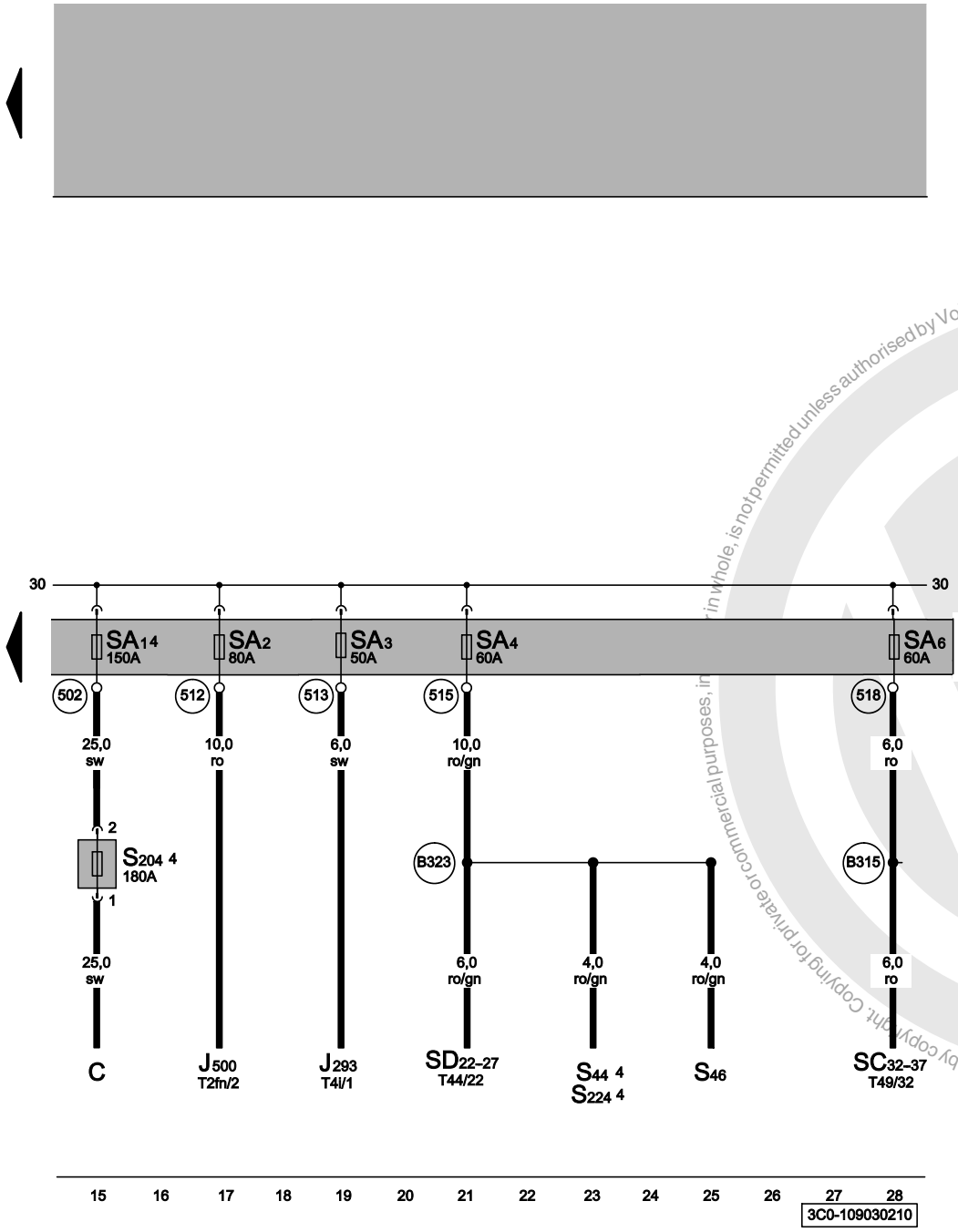
Battery, SA-fuses

A	Battery
J104	ABS control unit
SA5	Fuse 5 on fuse holder A
SA7	Fuse 7 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T38	38-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
12	Earth point, on left in engine compartment
507	Threaded connection (30), on battery fuse holder
516	Threaded connection 6 (30a) on relay plate
518	Threaded connection 8 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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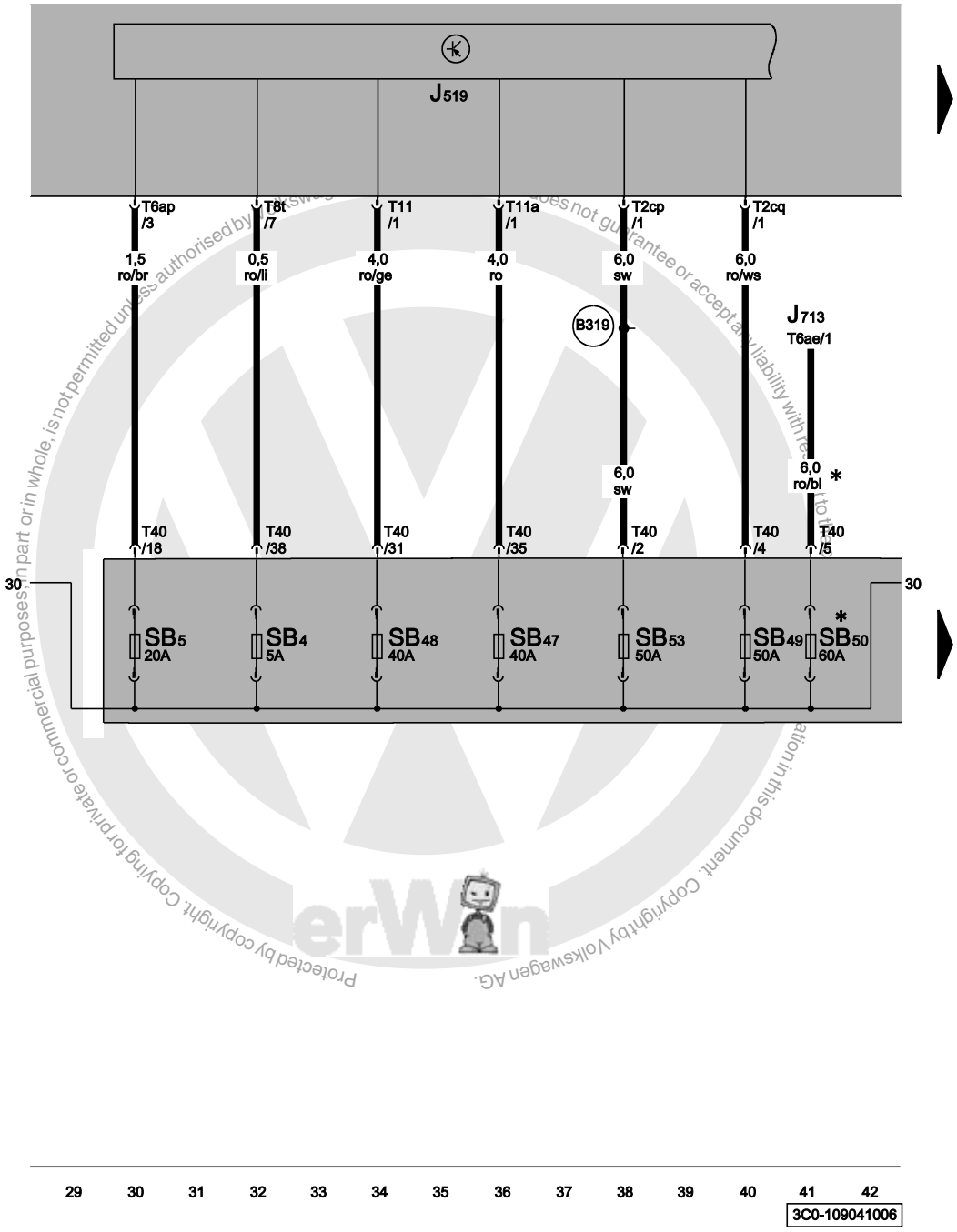
SA fuses

C	Alternator
J293	Radiator fan control unit
J500	Power steering control unit
S44	Driver seat adjustment thermal fuse 1, on left under dash panel
S46	Front passenger seat adjustment thermal fuse 1
S204	Fuse 1 (30)
S224	Fuse in fuse holder on left under dash panel
SA1	Fuse 1 on fuse holder A
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SA6	Fuse 6 on fuse holder A
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
T2fn	2-pin connector
T4i	4-pin connector
T44	44-pin connector on right of dash panel
T49	49-pin connector on left dash panel
502	Threaded connection 1 (30a) on relay plate
512	Threaded connection 2 (30a) on relay plate
513	Threaded connection 3 (30a) on relay plate
515	Threaded connection 5 (30a) on relay plate
518	Threaded connection 8 (30a) on relay plate
B315	Connection 1 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness

* - Depends on level of equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Onboard supply control unit, SB-fuses

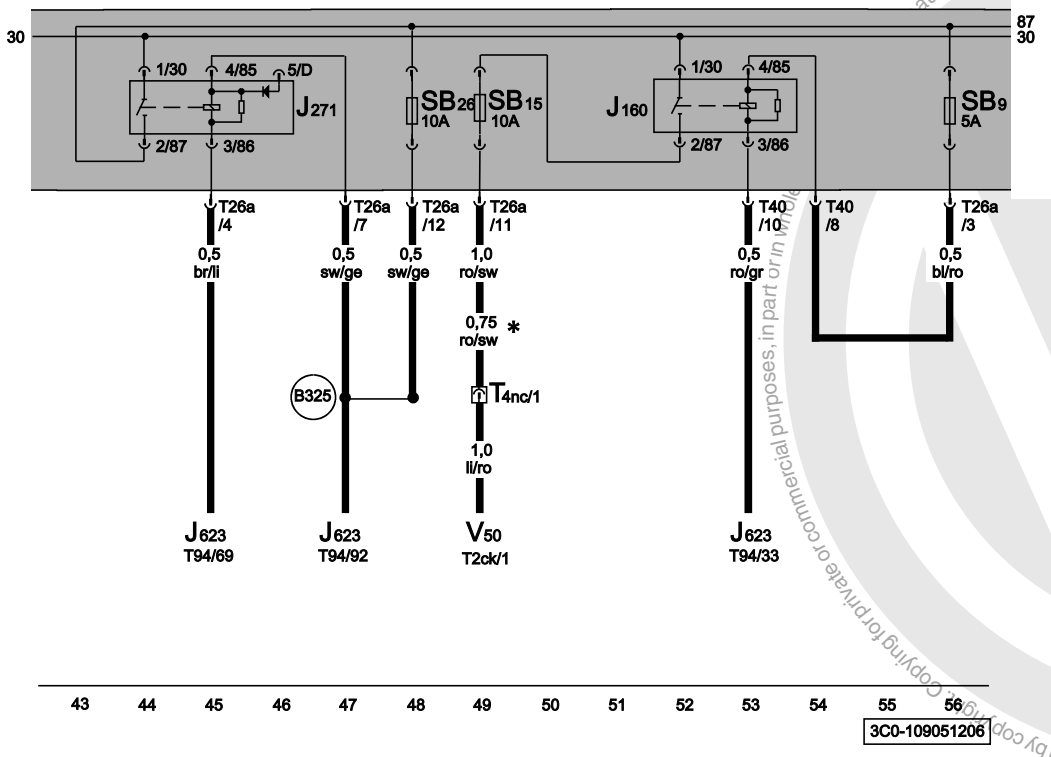
J519	Onboard supply control unit
J713	Second battery charging circuit relay
SB4	Fuse 4 on fuse holder B
SB5	Fuse 5 on fuse holder B
SB47	Fuse 47 on fuse holder B
SB48	Fuse 48 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB50	Fuse 50 on fuse holder B
SB53	Fuse 53 on fuse holder B
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T6ae	6-pin connector
T6ap	6-pin connector, black
T8t	8-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T40	40-pin connector, under E-box, in engine compartment
B319	Connection 5 (30a), in main wiring harness
*	Only models with auxiliary heater

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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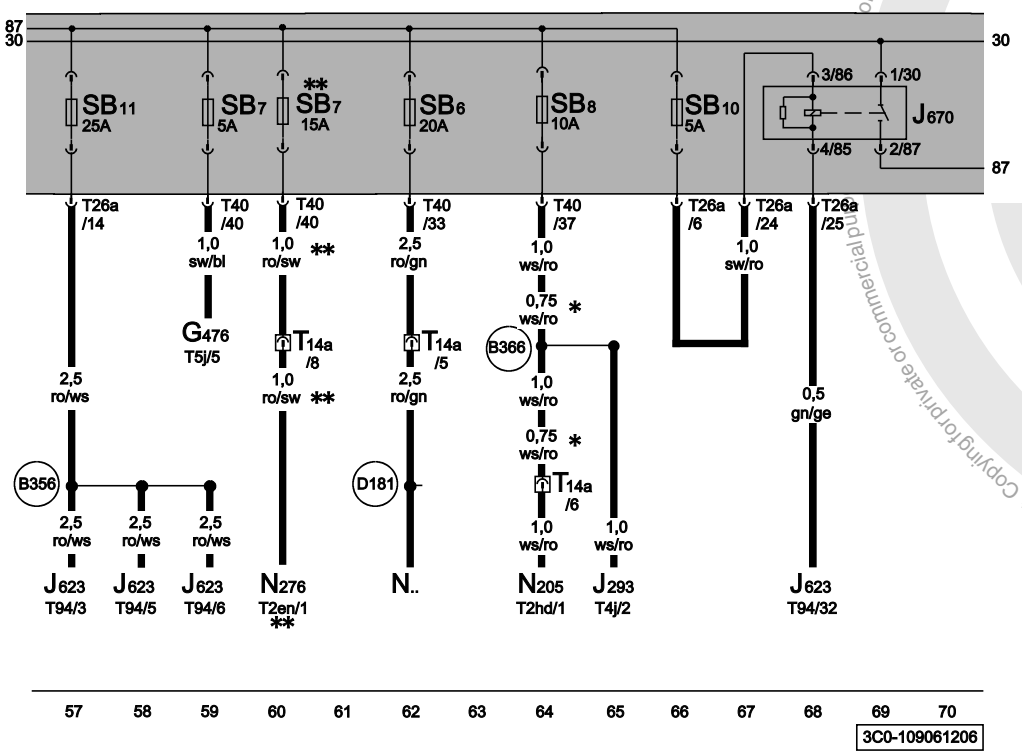
Motronic current supply relay, circulation pump relay, SB-fuse

J160	Circulation pump relay
J271	Motronic current supply relay
J623	Engine control unit
SB9	Fuse 9 on fuse holder B
SB15	Fuse 15 on fuse holder B
SB26	Fuse 26 on fuse holder B
T2ck	2-pin connector
T4nc	4-pin connector
T26a	26-pin connector, on E-box, in engine compartment
T40	40-pin connector, under E-box, in engine compartment
T94	94-pin connector
V50	Coolant circulation pump
B325	Connection 11 (30a), in main wiring harness
*	Applicable from November 2006



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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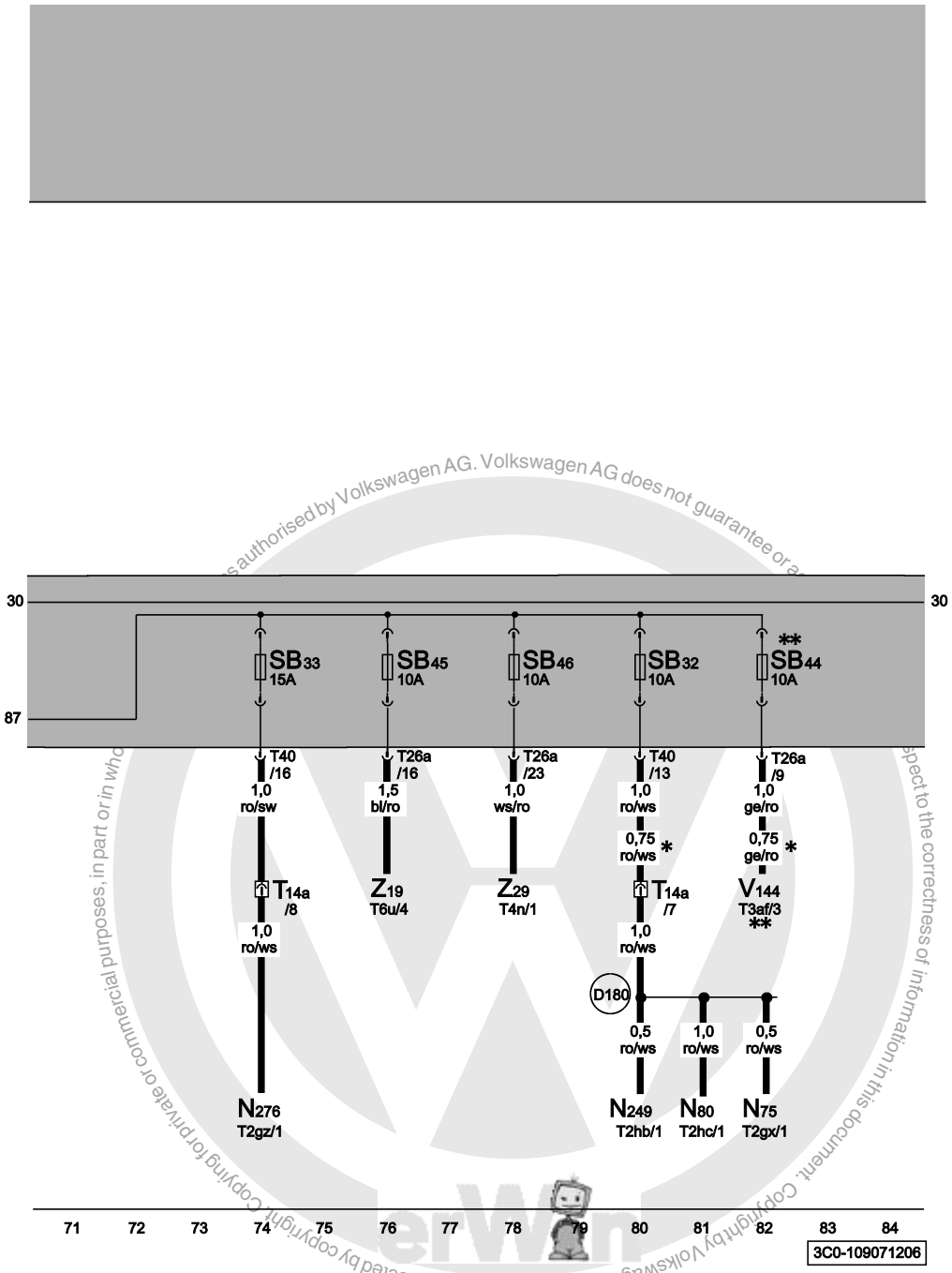


SB Fuses, Motronic current supply relay 2

G476	Clutch position sender
J293	Radiator fan control unit
J623	Engine control unit
J670	Motronic current supply relay 2
N...	Ignition coils with final output stages for cylinders 1-4
N205	Camshaft control valve 1
N276	Fuel pressure regulating valve
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB8	Fuse 8 on fuse holder B
SB10	Fuse 10 on fuse holder B
SB11	Fuse 11 on fuse holder B
T2en	2-pin connector
T2hd	2-pin connector
T4j	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector, on E-box, in engine compartment
T40	40-pin connector, under E-box, in engine compartment
T94	94-pin connector
B356	Connection 7 (87a), in main wiring harness
B366	Connection 17 (87a), in main wiring harness
D181	Connection 2 (87a), in engine compartment wiring harness
*	Applicable from November 2006
**	Only models with engine code AXZ, BLV

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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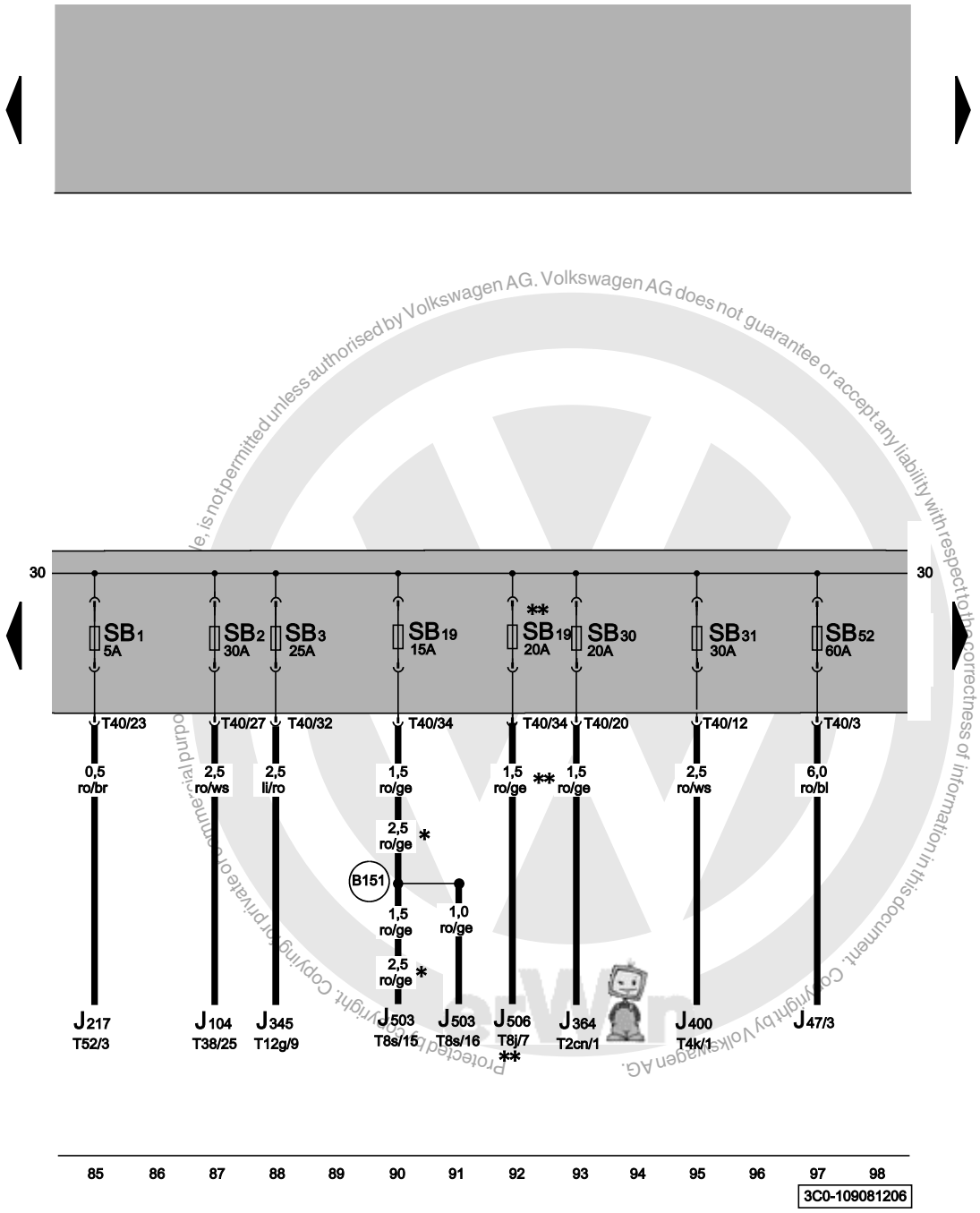


SB fuses

N75	Charge pressure control solenoid valve
N80	Activated charcoal filter solenoid valve 1
N249	Turbocharger air recirculation valve
N276	Fuel pressure regulating valve
SB32	Fuse 32 on fuse holder B
SB33	Fuse 33 on fuse holder B
SB44	Fuse 44 on fuse holder B
SB45	Fuse 45 on fuse holder B
SB46	Fuse 46 on fuse holder B
T2gz	2-pin connector
T2hb	2-pin connector
T2hc	2-pin connector
T2gx	2-pin connector
T3af	3-pin connector
T4n	4-pin connector
T6u	6-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector, on E-box
T40	40-pin connector, under E-box, in engine compartment
V144	Fuel system diagnostic pump
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D180	Connection (87a), in engine compartment wiring harness
*	Applicable from November 2006
**	Only models with engine code BPY

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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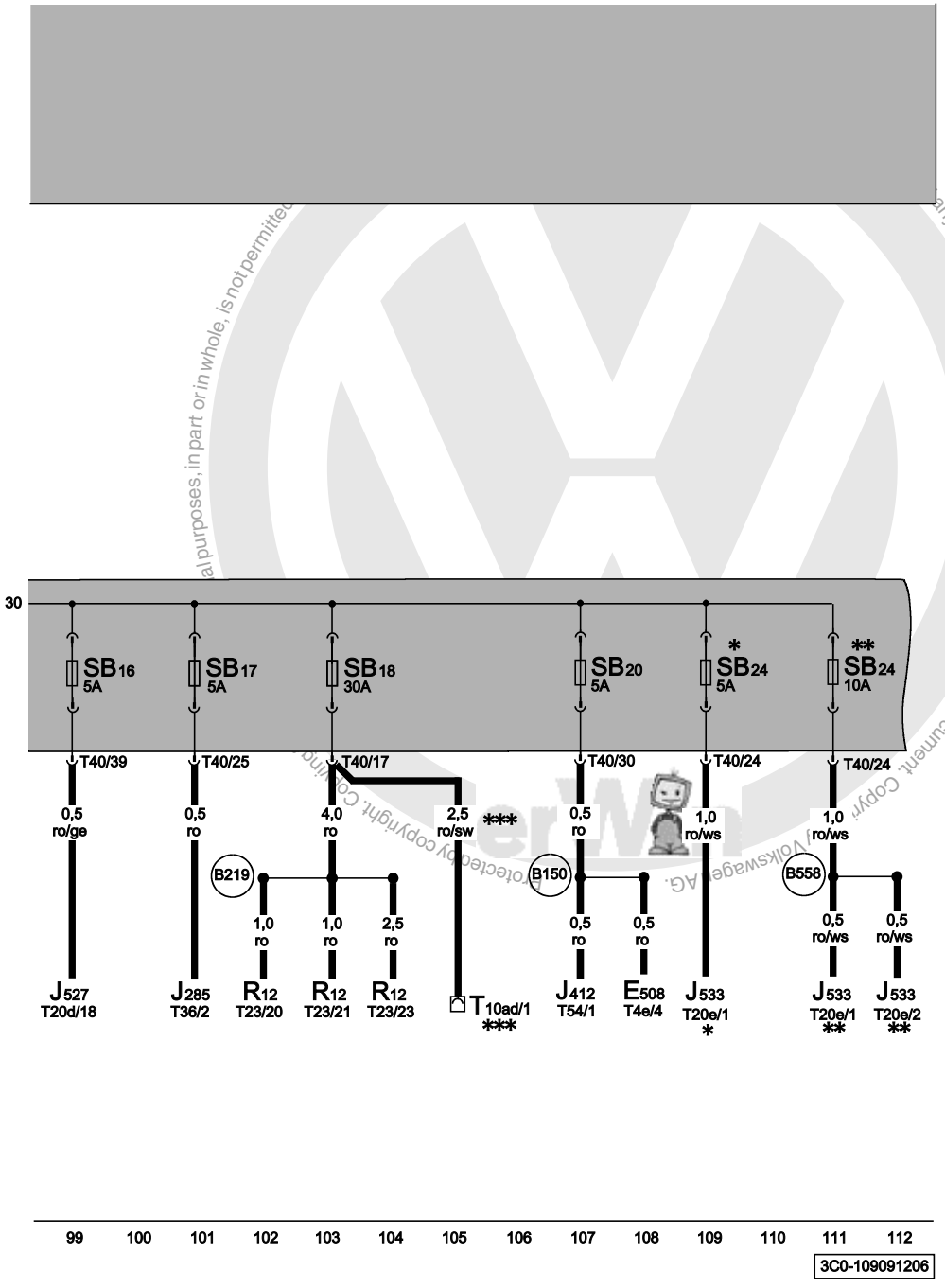


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SB fuses

J47	Heated windscreen relay
J104	ABS control unit
J217	Automatic gearbox control unit
J345	Trailer detector control unit
J364	Auxiliary heater control unit
J400	Wiper motor control unit
J503	Control unit with display for radio and navigation
J506	Control unit with display for TV, radio, navigation system
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
SB3	Fuse 3 on fuse holder B
SB19	Fuse 19 on fuse holder B
SB30	Fuse 30 on fuse holder B
SB31	Fuse 31 on fuse holder B
SB52	Fuse 52 on fuse holder B
T2cn	2-pin connector
T4k	4-pin connector
T8j	8-pin connector
T8s	8-pin connector
T12g	12-pin connector
T38	38-pin connector
T40	40-pin connector, under E-box, in engine compartment
T52	52-pin connector
B151	Positive connection 3 (30a), in interior wiring harness
*	Applicable from November 2006
**	Only Japanese markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

SB fuses

E508	Operating unit for preparation for mobile telephone
J285	Control unit in dash panel insert
J412	Control unit for mobile telephone operating electronics
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
R12	Amplifier
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB18	Fuse 18 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB24	Fuse 24 on fuse holder B
T4e	4-pin connector
T10ad	10-pin connector
T20d	20-pin connector
T20e	20-pin connector
T23	23-pin connector
T36	36-pin connector
T40	40-pin connector, under E-box, in engine compartment
T54	54-pin connector
B150	Positive connection 2 (30a), in interior wiring harness
B219	Positive connection 4 (30a), in interior wiring harness
B558	Connection 22 (30a), in main wiring harness
*	Applicable from November 2006
**	Applicable to October 2006
***	wire for special installation

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Fuse concept, 1 rear battery, petrol engine

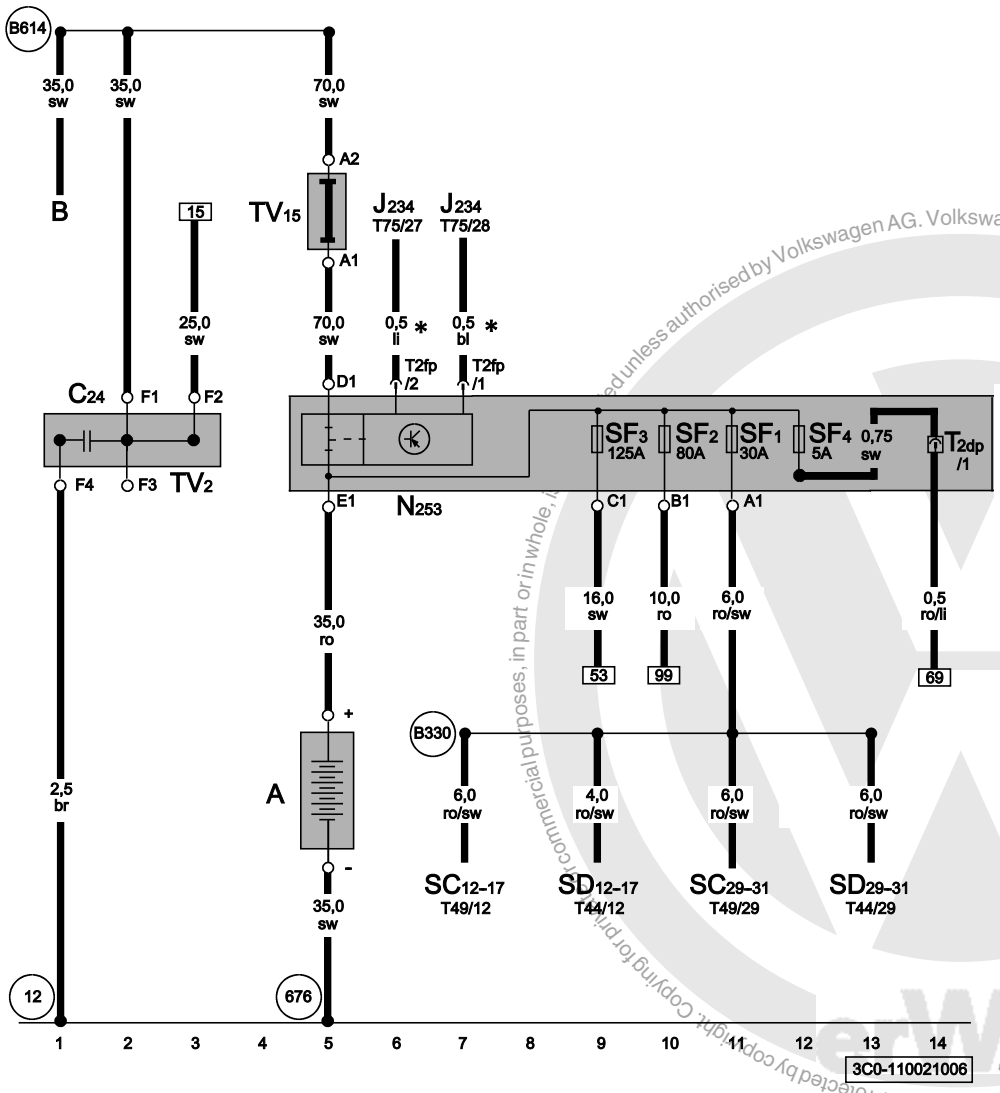
⇒ **Fuse SA, in E-box high**
⇒ **Fuse SB, in E-box high**
From May 2006

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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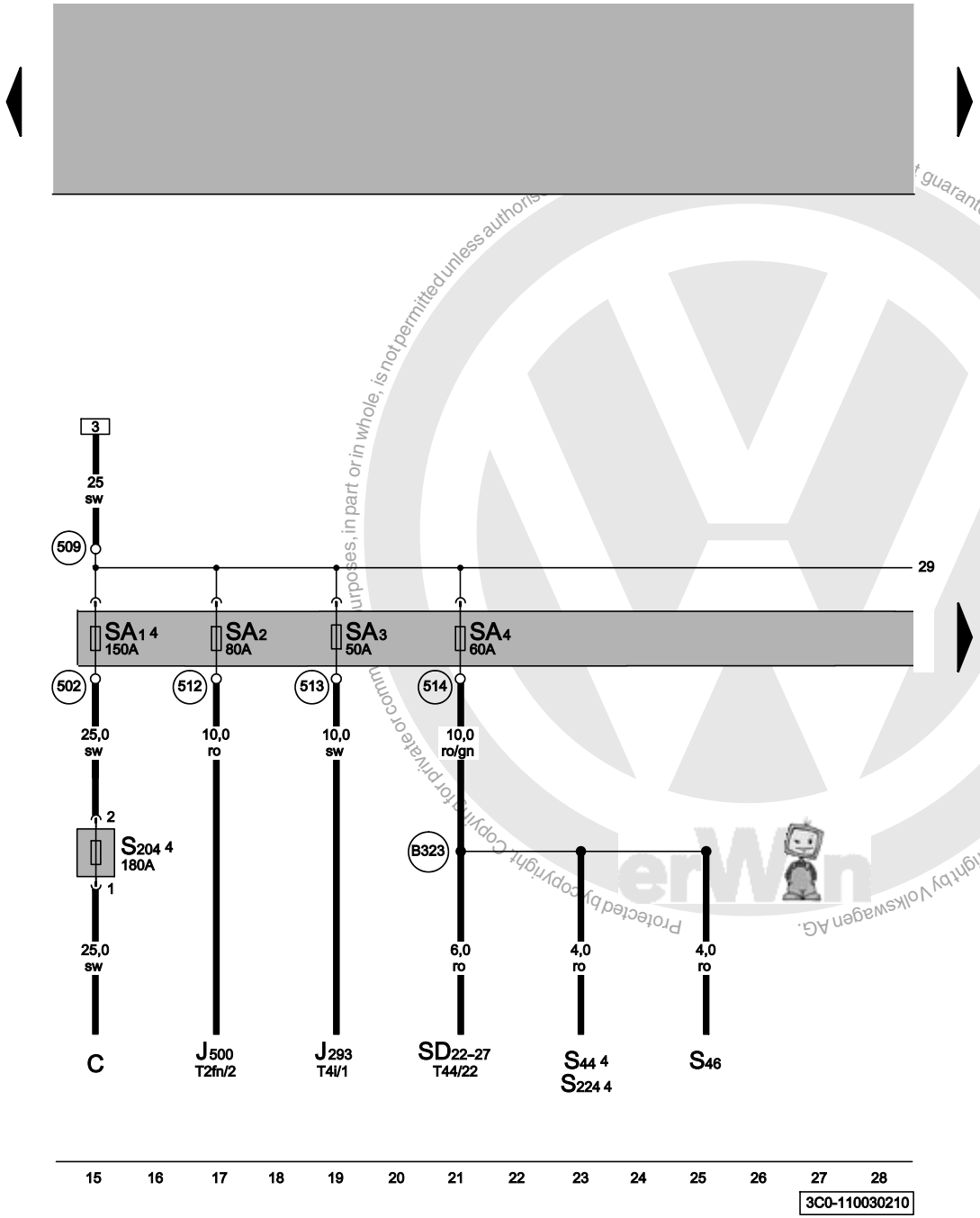


Battery, battery isolation igniter, terminal 30 wiring junction, wiring connector, suppression filter

A	Battery
B	Starter
C24	Suppression filter
J234	Airbag control unit
N253	Battery isolation igniter
SC	Fuse on fuse holder C, see fitting locations
SD	Fuse on fuse holder D, see fitting locations
SF1	Fuse 1 on fuse holder F, on left in luggage compartment
SF2	Fuse 2 on fuse holder F, on left in luggage compartment
SF3	Fuse 3 on fuse holder F, on left in luggage compartment
SF4	Fuse 4 on fuse holder F, on left in luggage compartment
T2dp	2-pin connector, black, coupling connector, in main fuse box
T2fp	2-pin connector, purple, in main fuse box
T44	44-pin connector
T49	49-pin connector
T75	75-pin connector
TV2	Terminal 30 wiring junction
TV15	Wiring connector
12	Earth point, on left in engine compartment
676	Earth point 2, on left in luggage compartment
B330	Connection 16 (30a), in main wiring harness
B614	Connection 23 (30a), in main wiring harness
*	Only models with airbag control unit 16 channel

ws	=	white
sw	=	black
ro	=	red
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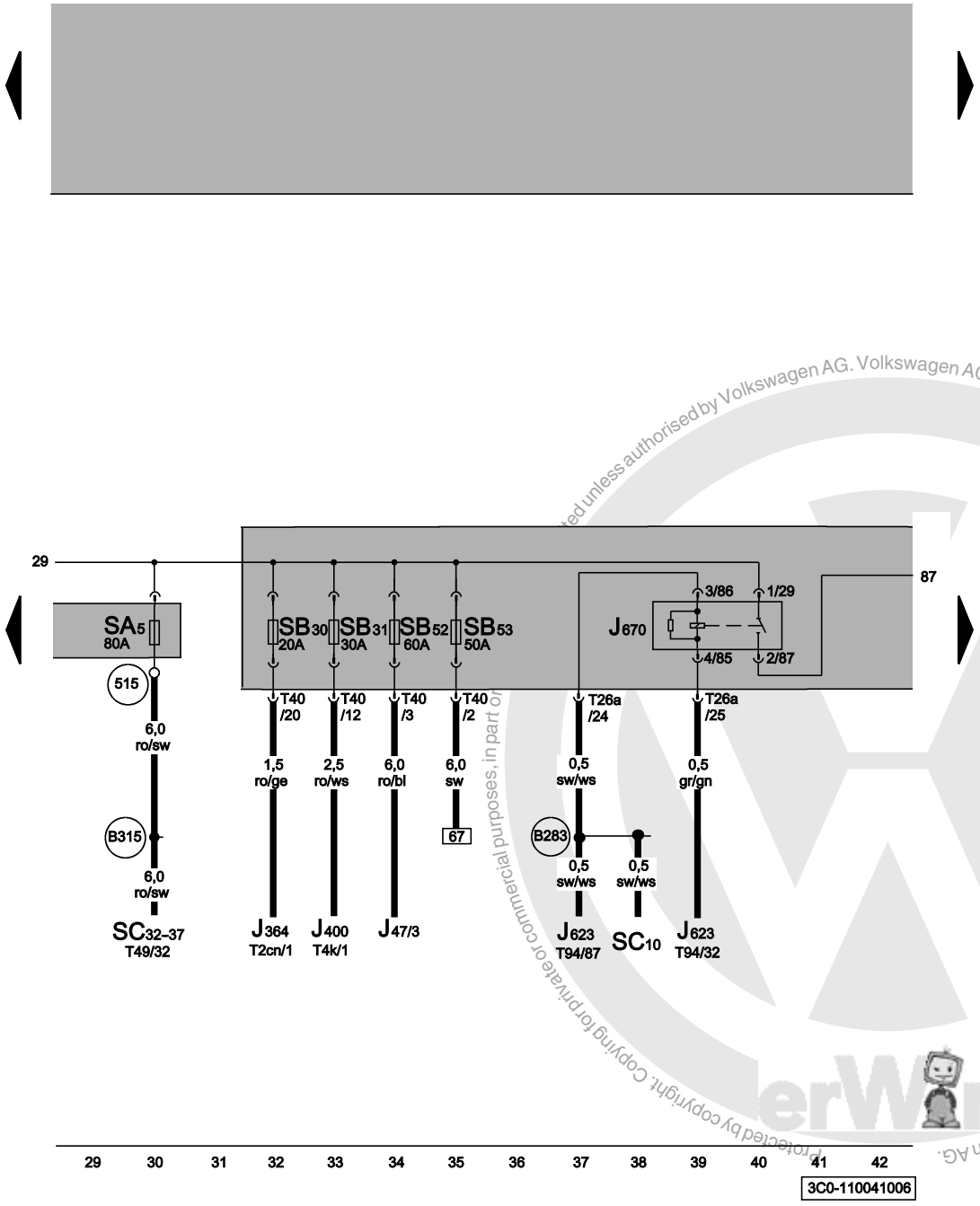


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

SA fuses

C	Alternator
J293	Radiator fan control unit
J500	Power steering control unit
S44	Driver seat adjustment thermal fuse 1, on left under dash panel
S46	Front passenger seat adjustment thermal fuse 1
S204	Fuse 1 (30)
S224	Fuse in fuse holder on left under dash panel
SA1	Fuse 1 on fuse holder A
SA2	Fuse 2 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SD	Fuse on fuse holder D, see fitting locations
T2fn	2-pin connector
T4i	4-pin connector
T44	44-pin connector on right of dash panel
502	Threaded connection 1 (30a) on relay plate
509	Threaded connection 1 (29), on E-box
512	Threaded connection 2 (30a) on relay plate
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B323	Connection 9 (30a), in main wiring harness
*	Depends on equipment

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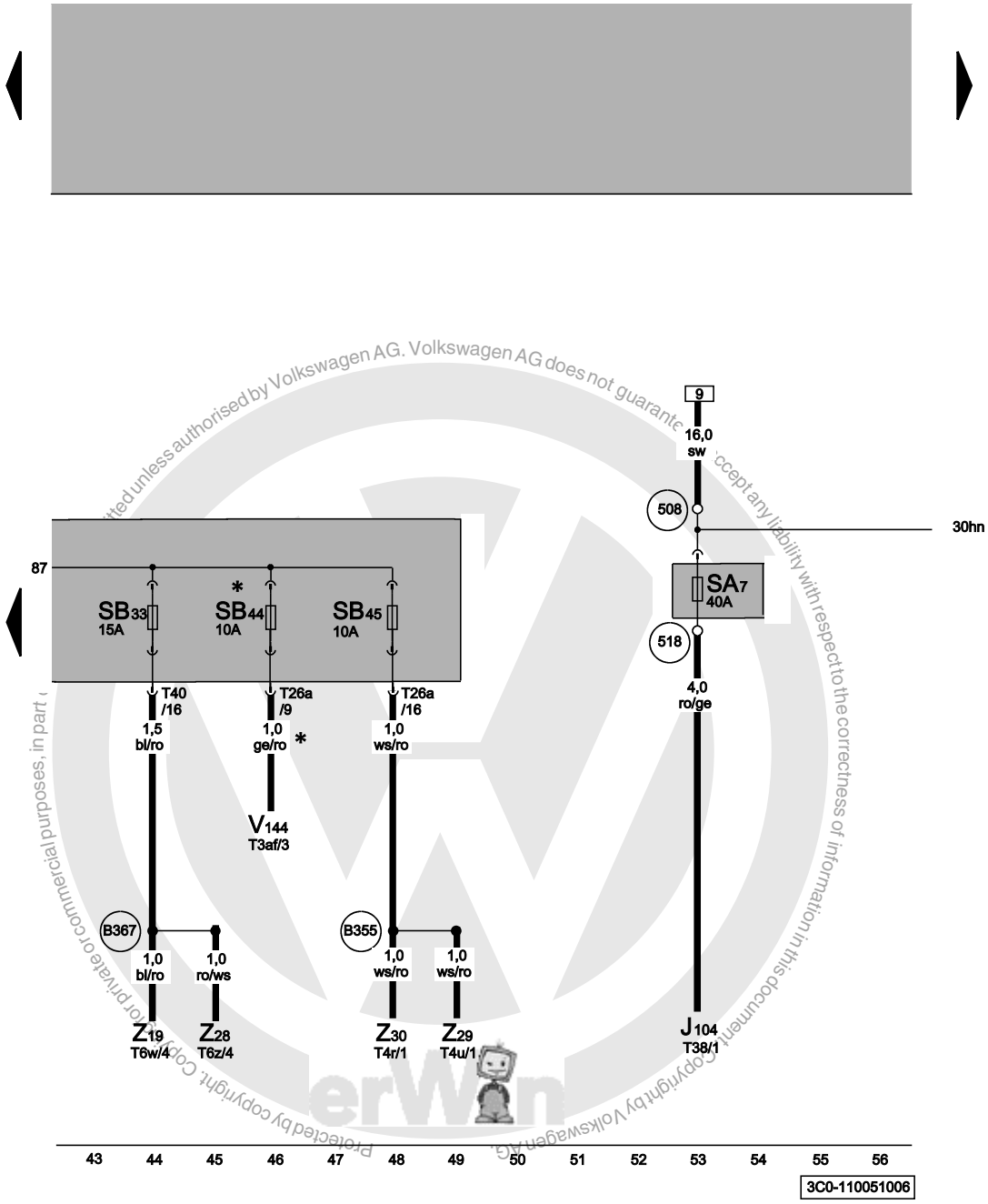


SA fuses, SB fuses, Motronic current supply relay 2

J47	Heated windscreen relay
J364	Auxiliary heater control unit
J400	Wiper motor control unit
J623	Engine control unit
J670	Motronic current supply relay 2
SA5	Fuse 5 on fuse holder A
SB30	Fuse 30 on fuse holder B
SB31	Fuse 31 on fuse holder B
SB52	Fuse 52 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC10	Fuse 10 on fuse holder C
SC	Fuse on fuse holder C, see fitting locations
T2cn	2-pin connector
T4k	4-pin connector
T26a	26-pin connector, on E-box
T40	40-pin connector, under E-box, in engine compartment
T49	49-pin connector
T94	94-pin connector
515	Threaded connection 5 (30a) on relay plate
B283	Connection 7 (15a), in main wiring harness
B315	Connection 1 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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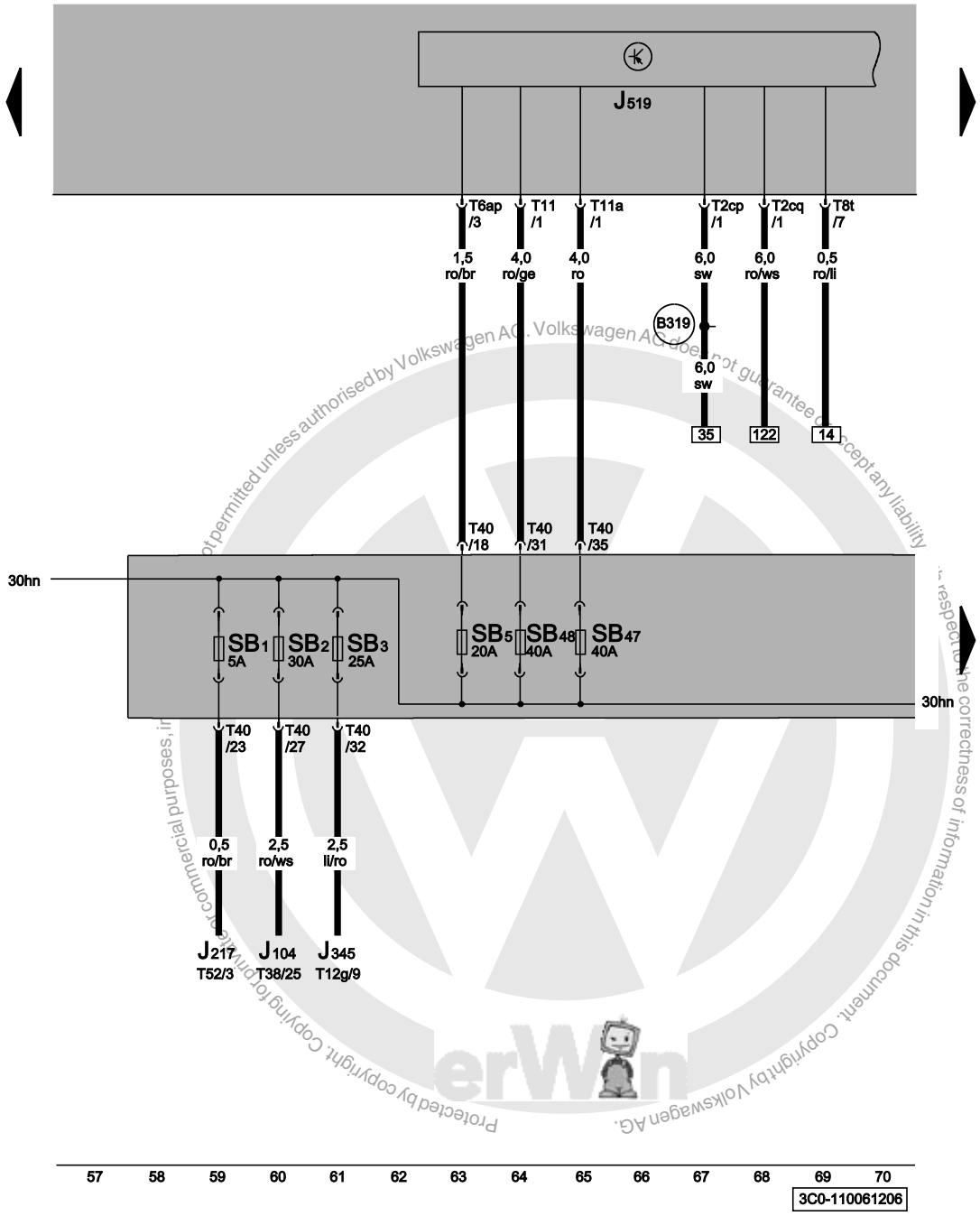


SB fuses

J104	ABS control unit
SA7	Fuse 7 on fuse holder A
SB33	Fuse 33 on fuse holder B
SB44	Fuse 44 on fuse holder B
SB45	Fuse 45 on fuse holder B
T3af	3-pin connector
T4r	4-pin connector
T4u	4-pin connector
T6w	6-pin connector
T6z	6-pin connector
T26a	26-pin connector, on E-box
T38	38-pin connector
T40	40-pin connector, under E-box, in engine compartment
V144	Fuel system diagnostic pump
Z19	Lambda probe heater
Z28	Lambda probe heater 2
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
508	Screw connection (30) on E-box
518	Threaded connection 8 (30a) on relay plate
B355	Connection 6 (87a), in main wiring harness
B367	Connection 18 (87a), in main wiring harness
*	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Onboard supply control unit, SB-fuses

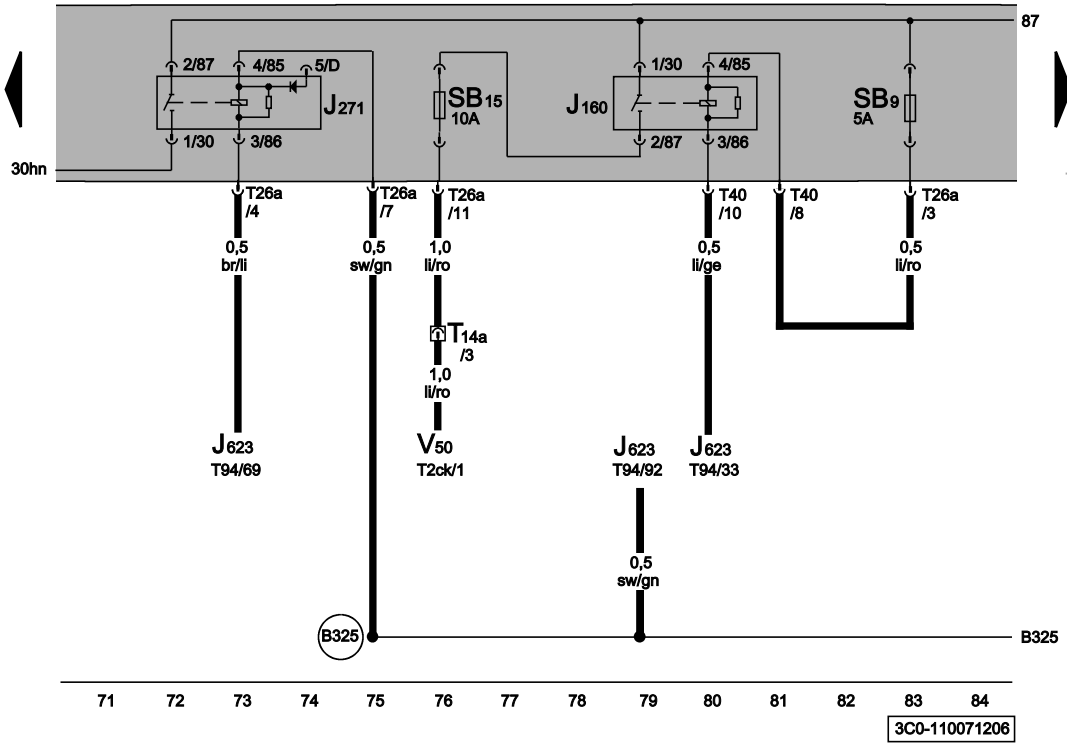
J104	ABS control unit
J217	Automatic gearbox control unit
J345	Trailer detector control unit
J519	Onboard supply control unit
SB1	Fuse 1 on fuse holder B
SB2	Fuse 2 on fuse holder B
SB3	Fuse 3 on fuse holder B
SB5	Fuse 5 on fuse holder B
SB47	Fuse 47 on fuse holder B
SB48	Fuse 48 on fuse holder B
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T6ap	6-pin connector, black
T8t	8-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T12g	12-pin connector
T38	38-pin connector
T40	40-pin connector, under E-box, in engine compartment
T52	52-pin connector
B319	Connection 5 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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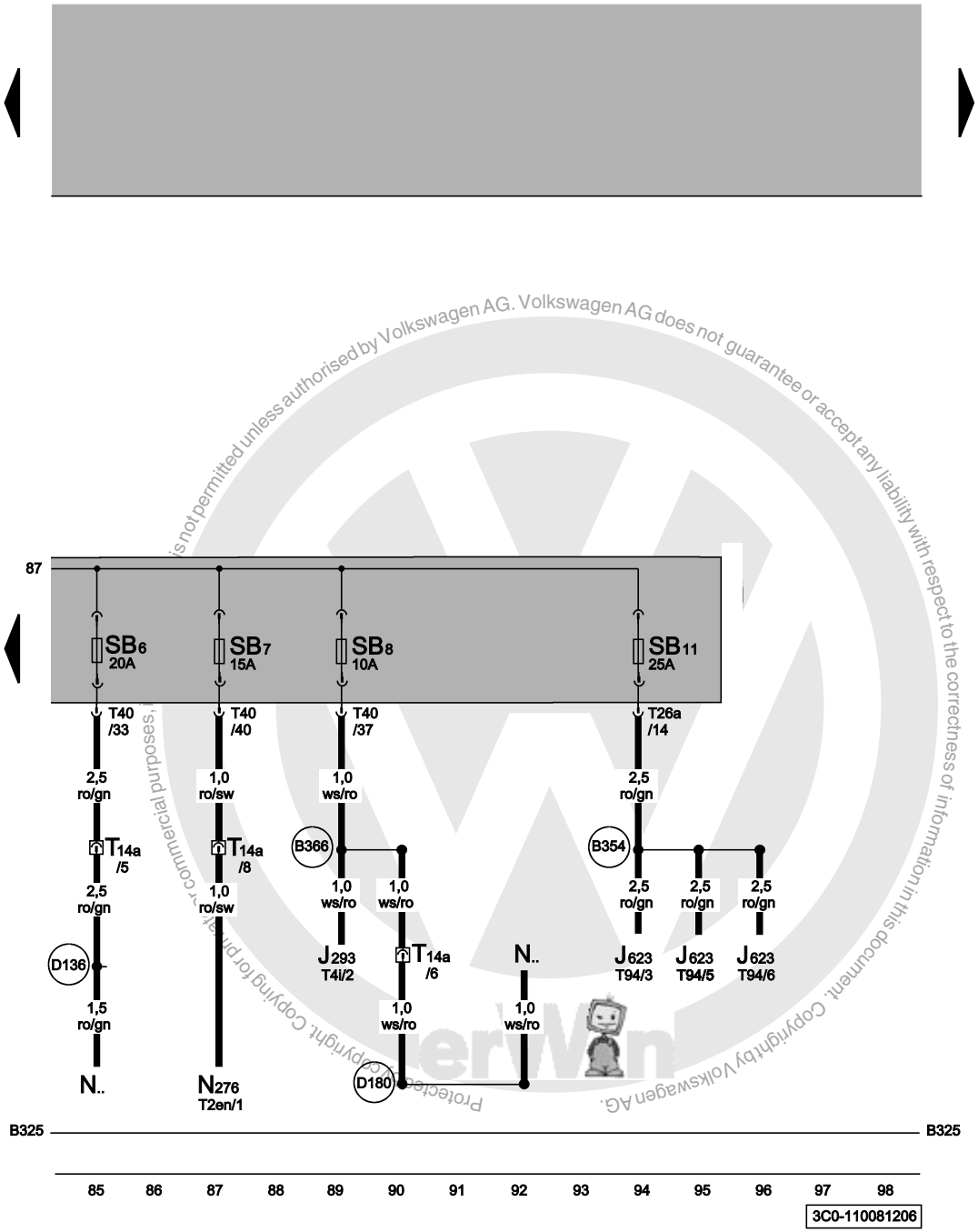
Circulation pump relay, Motronic current supply relay

J160	Circulation pump relay
J271	Motronic current supply relay
J623	Engine control unit
SB9	Fuse 9 on fuse holder B
SB15	Fuse 15 on fuse holder B
T2ck	2-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector, on E-box
T40	40-pin connector, under E-box, in engine compartment
T94	94-pin connector
V50	Coolant circulation pump
B325	Connection 17 (30a), in main wiring harness



ws = white
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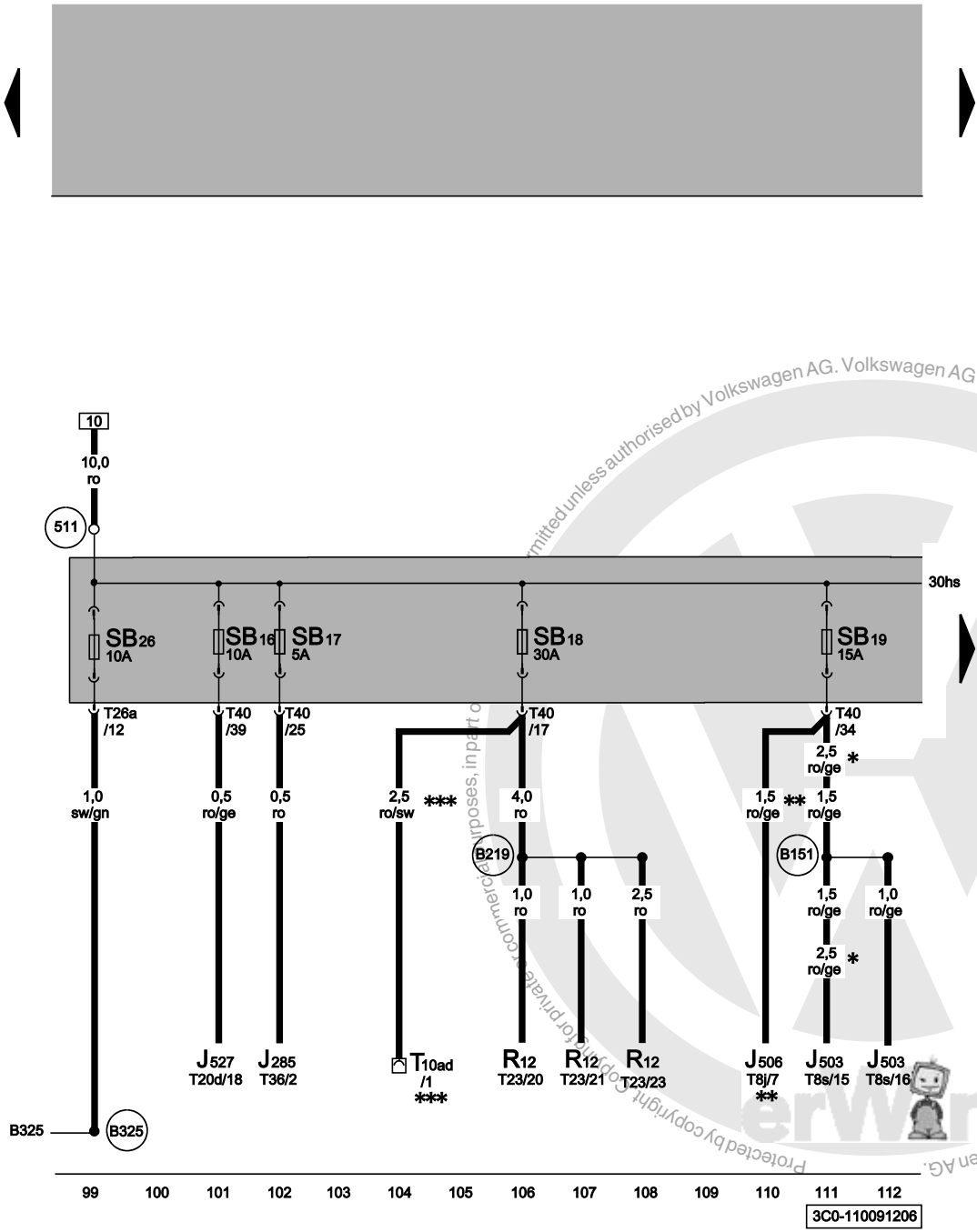


SB fuses

J293	Radiator fan control unit
J623	Engine control unit
N	Ignition coils with final output stages for cylinders 1-4
N276	Fuel pressure regulating valve
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB8	Fuse 8 on fuse holder B
SB11	Fuse 11 on fuse holder B
T2en	2-pin connector
T4i	4-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector, on E-box
T40	40-pin connector, under E-box, in engine compartment
T94	94-pin connector
B354	Connection 5 (87a), in main wiring harness
B366	Connection 17 (87a), in main wiring harness
D136	Positive connection 2 (15a), in engine compartment wiring harness
D180	Connection (87a), in engine compartment wiring harness

ws	=	white
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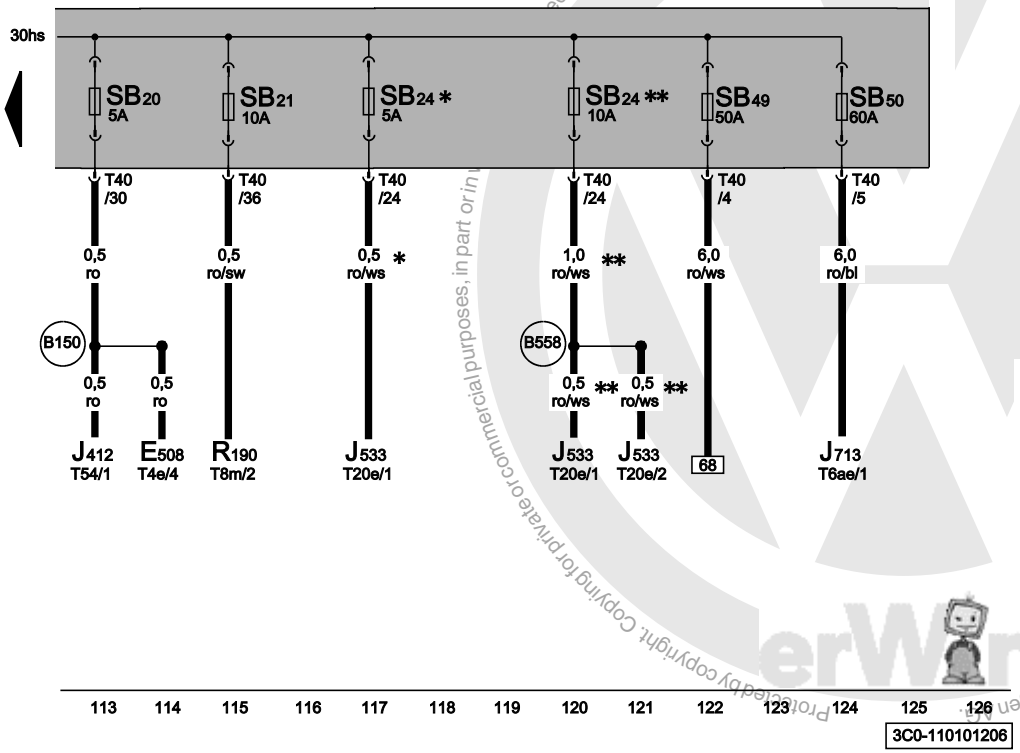
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
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SB fuses

J285	Control unit in dash panel insert
J503	Control unit with display for radio and navigation
J506	Control unit with display for TV, radio, navigation system
J527	Steering column electronics control unit
R12	Amplifier
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
SB26	Fuse 26 on fuse holder B
T8j	8-pin connector
T8s	8-pin connector
T10ad	10-pin connector
T20d	20-pin connector
T23	23-pin connector
T26a	26-pin connector, on E-box
T36	36-pin connector
T40	40-pin connector, under E-box, in engine compartment
511	Threaded connection 2 (30), on E-box
B151	Positive connection 3 (30a), in interior wiring harness
B219	Positive connection 4 (30a), in interior wiring harness
B325	Connection 11 (30a), in main wiring harness
*	Applicable from November 2006
**	Only models with engine code BLV
***	wire for special installation

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SB fuses

E508	Operating unit for preparation for mobile telephone
J412	Control unit for mobile telephone operating electronics
J533	Data bus diagnosis interface
J713	Second battery charging circuit relay
R190	Satellite digital radio tuner
SB20	Fuse 20 on fuse holder B
SB21	Fuse 21 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB50	Fuse 50 on fuse holder B
T4e	4-pin connector
T8m	8-pin connector
T6ae	6-pin connector
T20e	20-pin connector
T40	40-pin connector, under E-box, in engine compartment
T54	54-pin connector
B150	Positive connection 2 (30a), in interior wiring harness
B558	Connection 22 (30a), in main wiring harness
*	Applicable from November 2006
**	Applicable to October 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Fuse concept, 1 battery

⇒ **Fuses SC, on left in dash panel**

⇒ **Fuses SD, on right in dash panel**

From May 2006

Notes:

For information concerning

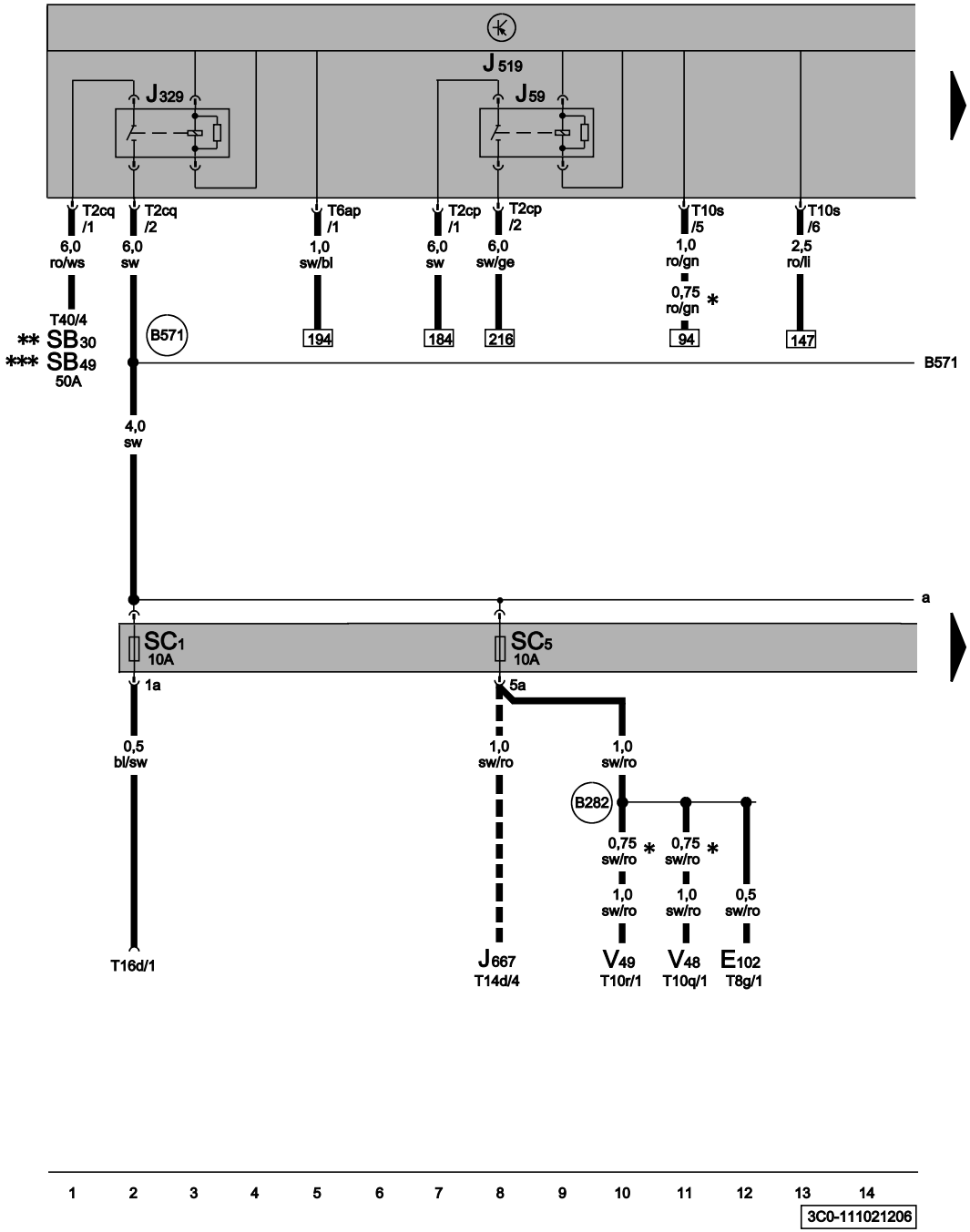
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

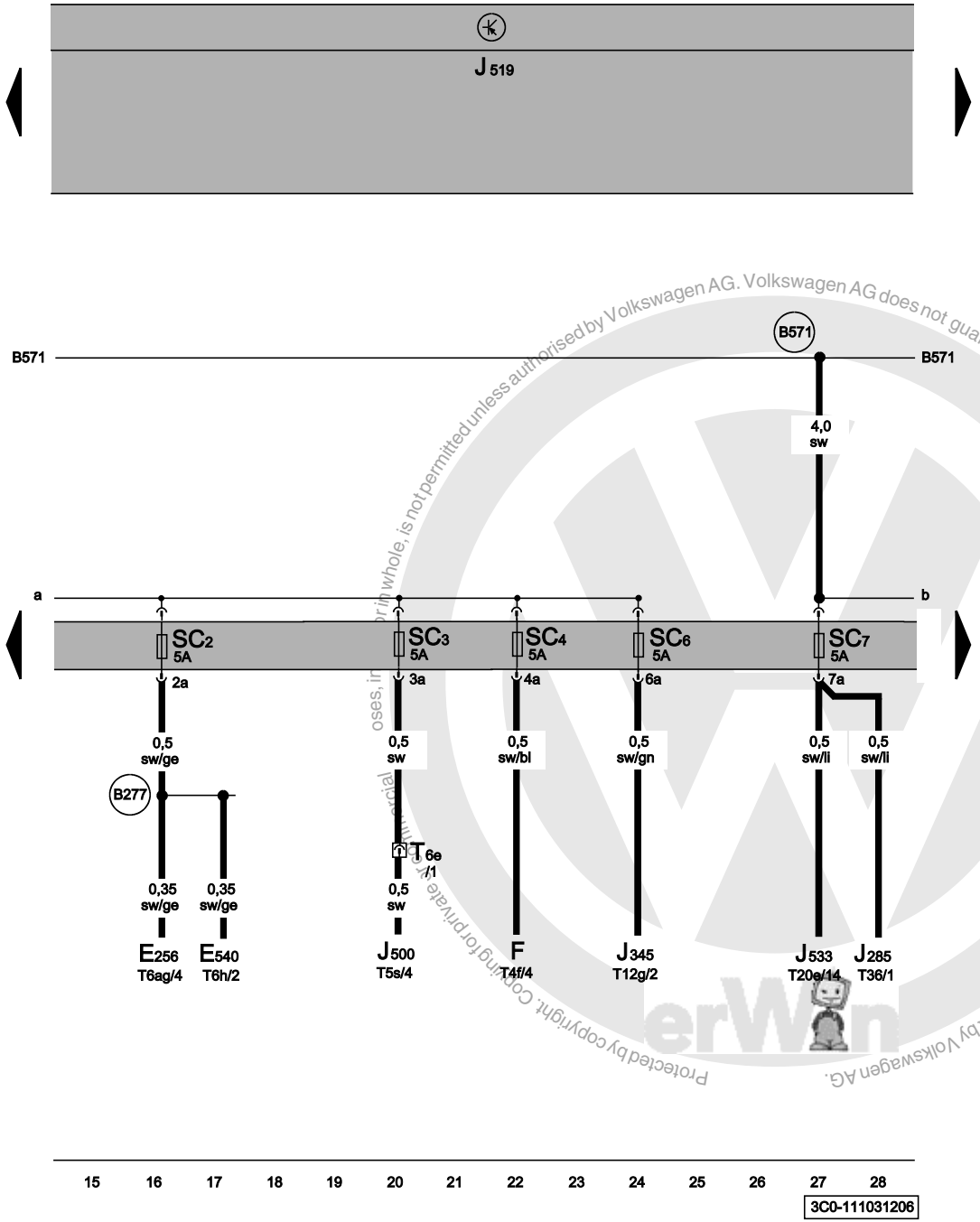


SC fuses, self-diagnosis connection

E102	Headlight range control regulator
J59	X-contact relief relay
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J667	Power output module for left headlight
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC5	Fuse 5 on fuse holder C
T2cp	2-pin connector
T2cq	2-pin connector
T6ap	6-pin connector
T8g	8-pin connector
T10q	10-pin connector
T10r	10-pin connector
T10s	10-pin connector, black
T14d	14-pin connector
T16d	16-pin connector, self-diagnosis connection
T40	40-pin connector
V48	Left headlight range control motor
V49	Right headlight range control motor
B282	Connection 6 (15a), in main wiring harness
B571	Connection 38, in main wiring harness
*	Applicable from November 2006
**	Only models with E-box low
***	Only models with E-box high
---	Only models with dynamic headlight range control and automatic driving light control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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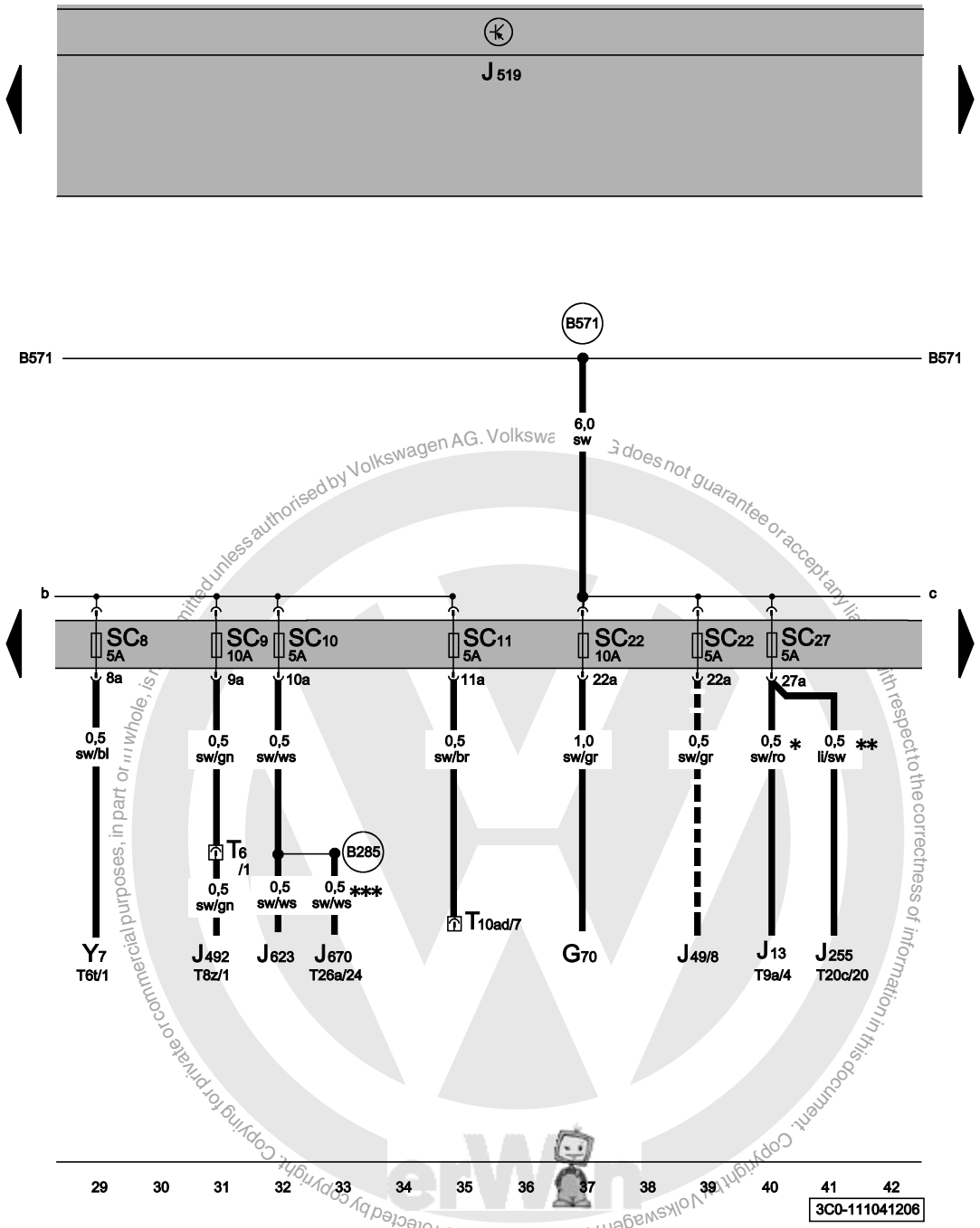


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SC fuses

E256	TCS and ESP button
E540	Auto-hold button
F	Brake light switch
J285	Control unit in dash panel insert
J345	Trailer detector control unit
J500	Power steering control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
SC2	Fuse 2 on fuse holder C
SC3	Fuse 3 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC6	Fuse 6 on fuse holder C
SC7	Fuse 7 on fuse holder C
T4f	4-pin connector
T5s	5-pin connector
T6ag	6-pin connector
T6e	6-pin connector, black
T6h	6-pin connector
T12g	12-pin connector, coupling point for trailer connection
T20e	20-pin connector
T36	36-pin connector
B277	Connection 1 (15a), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

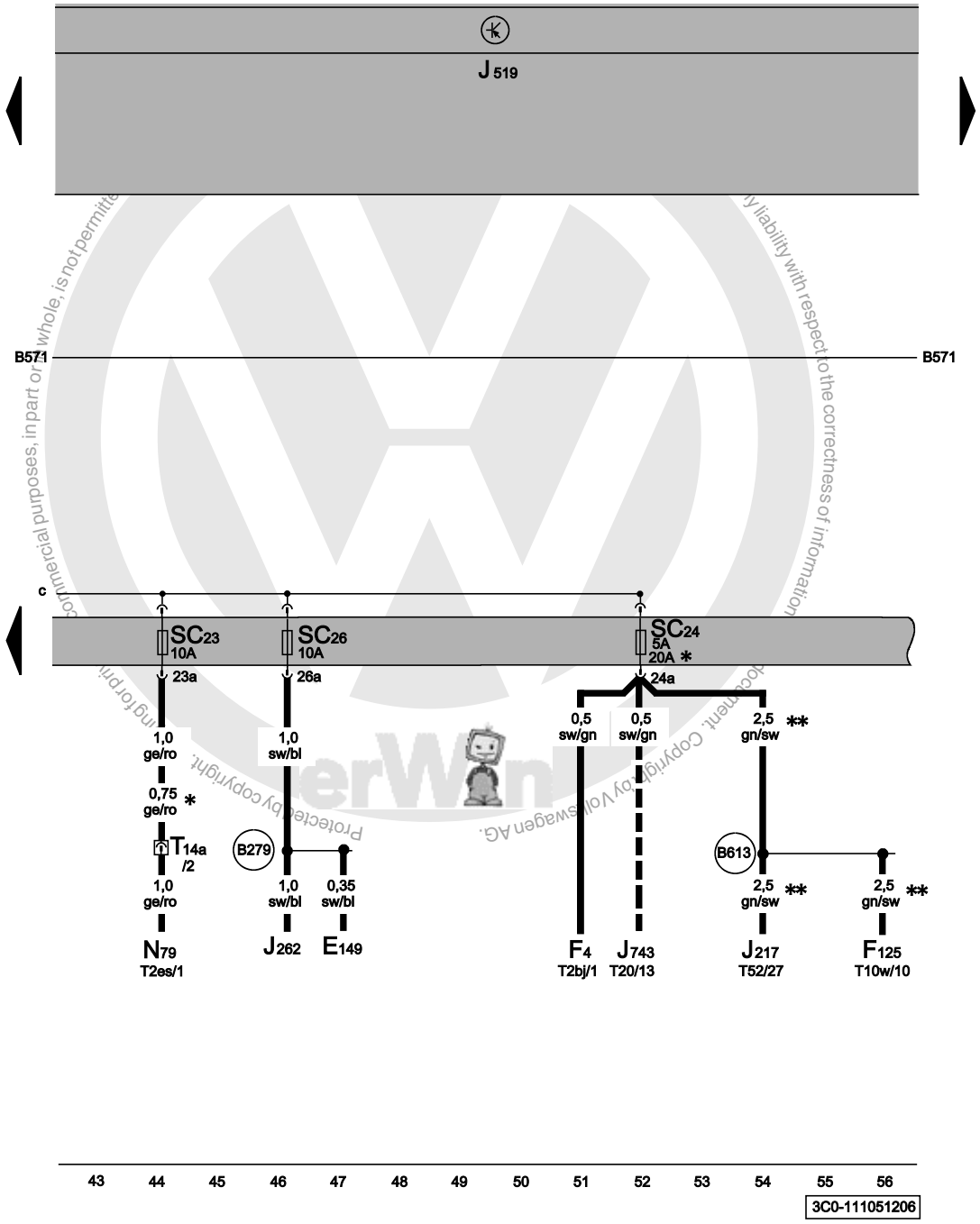


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

SC fuses

G70	Air mass meter
J13	Fresh air blower relay
J49	Electric fuel pump 2 relay
J255	Climatronic control unit
J492	All-wheel drive control unit
J519	Onboard supply control unit
J623	Engine control unit
J670	Motronic current supply relay 2
SC8	Fuse 8 on fuse holder C
SC9	Fuse 9 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC11	Fuse 11 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC27	Fuse 27 on fuse holder C
T6	6-pin connector, black
T6t	6-pin connector
T8z	8-pin connector
T9a	9-pin connector
T10ad	10-pin connector, black, coupling point, left A-pillar, special vehicles
T20c	20-pin connector
T26a	26-pin connector
Y7	Automatic anti-dazzle interior mirror
B285	Connection 9 (15a), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models with Climatic and auxiliary heater
**	Only models with Climatic with no auxiliary heater
***	Only models with engine codes AXZ, BLV
---	Only models with engine codes BSE, BSF

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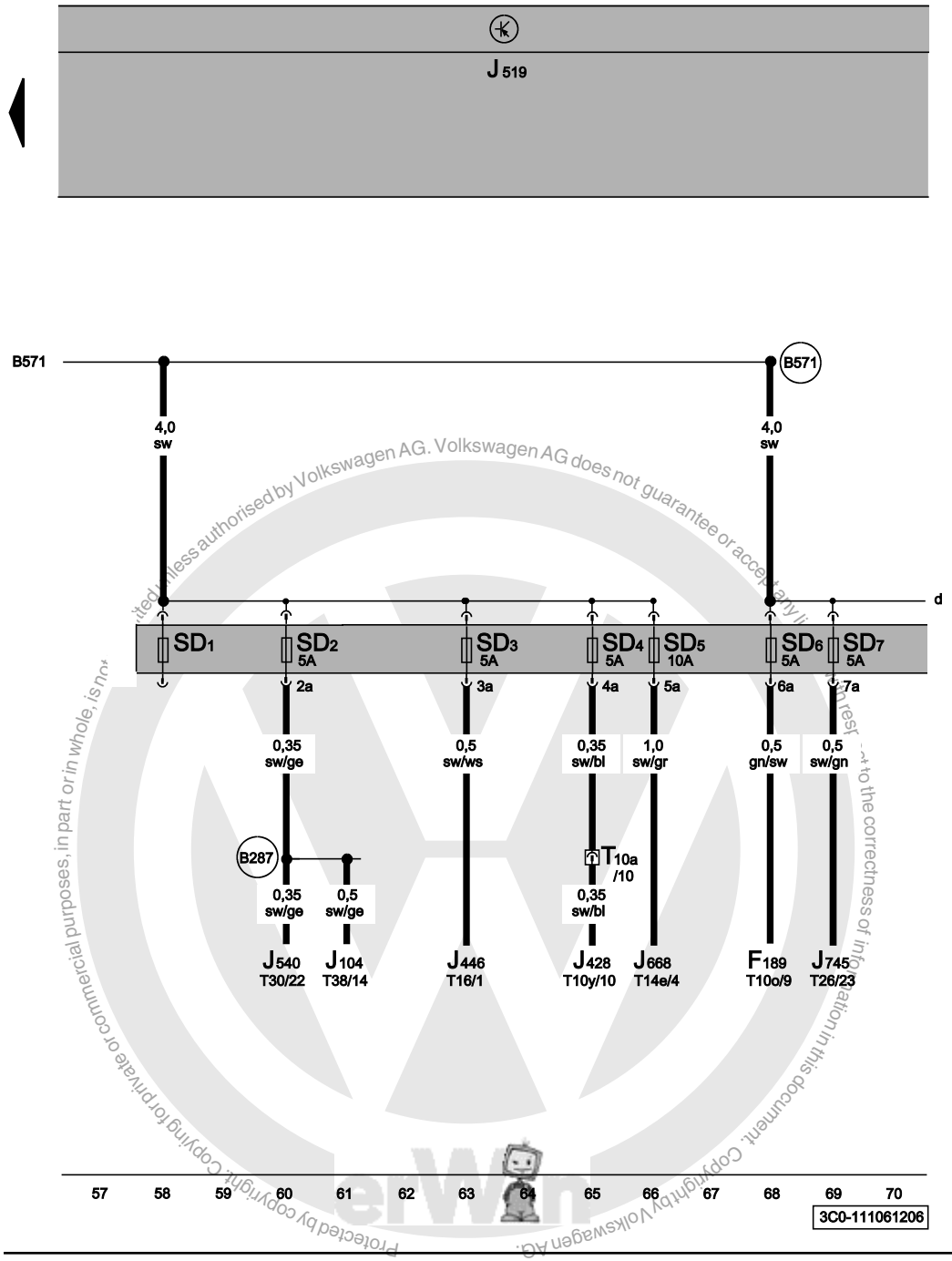


SC fuses

E149	Rear roller blind switch
F4	Reversing light switch
F125	Multifunction switch
J217	Automatic gearbox control unit
J262	Rear roller blind control unit
J519	Onboard supply control unit
J743	Mechatronics for dual clutch gearbox
N79	Crankcase breather heater element
SC23	Fuse 23 on fuse holder C
SC24	Fuse 24 on fuse holder C
SC26	Fuse 26 on fuse holder C
T2bj	2-pin connector
T2es	2-pin connector
T10w	10-pin connector, on gearbox
T14a	14-pin connector, coupling point 1 on left in engine compartment
T20	20-pin connector
T52	52-pin connector
B279	Connection 3 (15a), in main wiring harness
B613	Connection 41, in main wiring harness
*	Applicable from November 2006
**	Only models with automatic gearbox
---	Only models with dual clutch gearbox

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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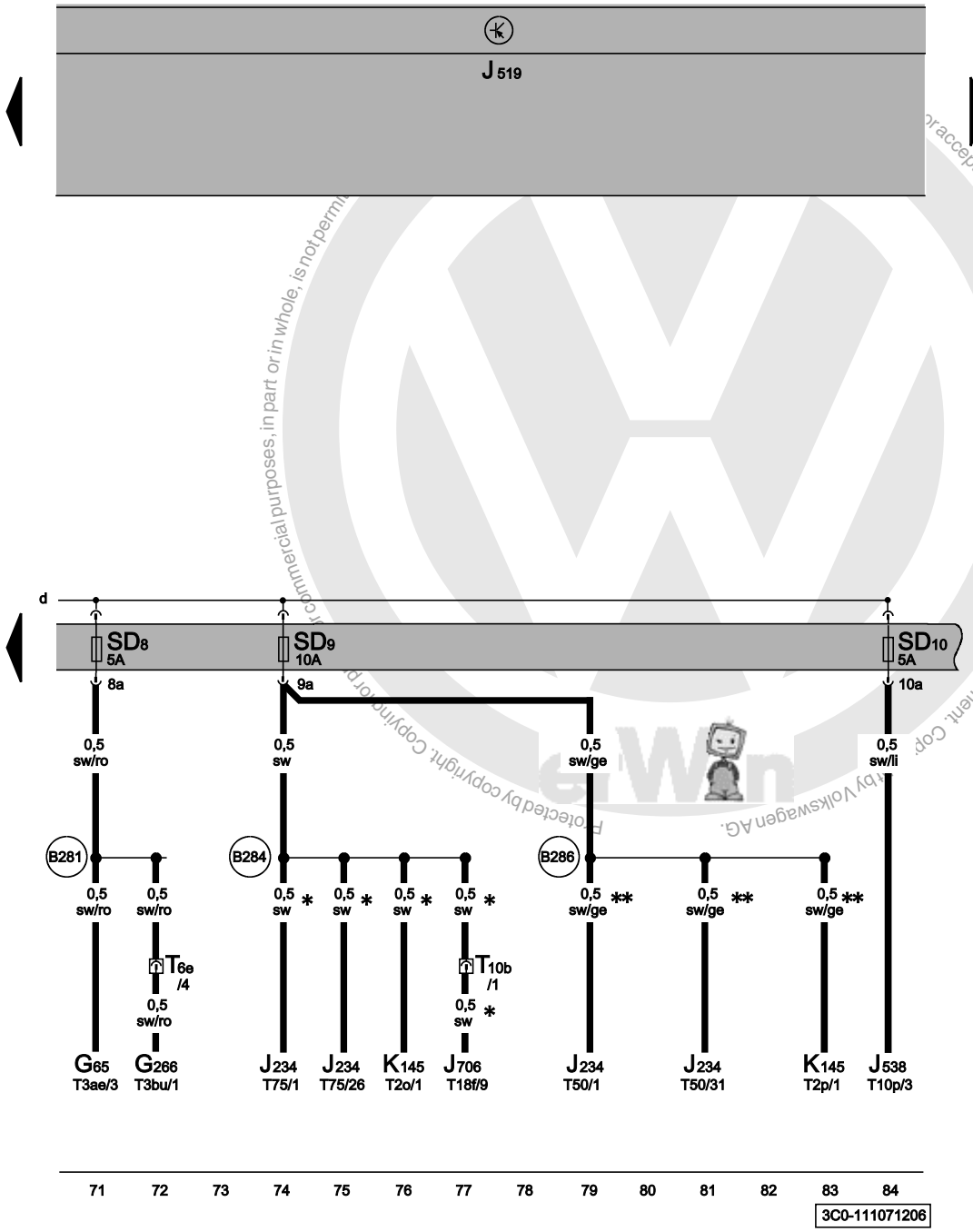


SD fuses

F189	Tiptronic switch
J104	ABS control unit
J428	Adaptive cruise control unit
J446	Parking aid control unit
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J668	Power output module for right headlight
J745	Control unit for cornering light and headlight range control
SD1	Fuse 1 on fuse holder D
SD2	Fuse 2 on fuse holder D
SD3	Fuse 3 on fuse holder D
SD4	Fuse 4 on fuse holder D
SD5	Fuse 5 on fuse holder D
SD6	Fuse 6 on fuse holder D
SD7	Fuse 7 on fuse holder D
T10a	10-pin connector, black
T10o	10-pin connector, on gearbox
T10y	10-pin connector
T14e	14-pin connector
T16	16-pin connector
T26	26-pin connector
T30	30-pin connector
T38	38-pin connector
B287	Connection 11 (15a), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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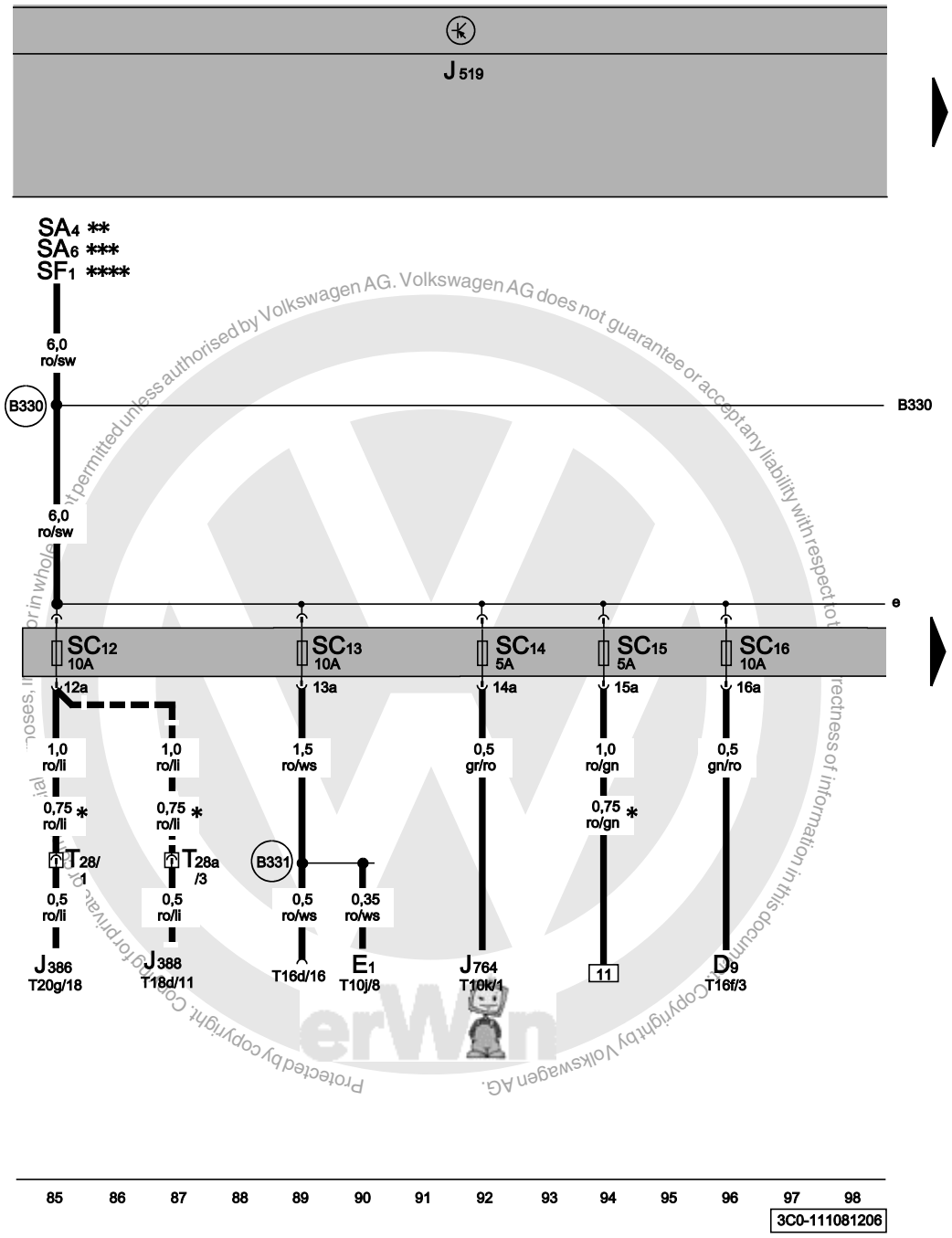


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

SD fuses

G65	High-pressure sender
G266	Oil level and oil temperature sender
J234	Airbag control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
J706	Seat occupied recognition control unit
K145	Front passenger side airbag deactivated warning lamp
SD8	Fuse 8 on fuse holder D
SD9	Fuse 9 on fuse holder D
SD10	Fuse 10 on fuse holder D
T2o	2-pin connector
T2p	2-pin connector
T3ae	3-pin connector
T3bu	3-pin connector
T6e	6-pin connector, black
T10b	10-pin connector, coupling point front passenger side, under seat
T10p	10-pin connector
T18f	18-pin connector
T50	50-pin connector
T75	75-pin connector
B281	Connection 5 (15a), in main wiring harness
B284	Connection 8 (15a), in main wiring harness
B286	Connection 10 (15a), in main wiring harness
*	Only models with airbag control unit 16 channel
**	Only models with airbag control unit 12 channel

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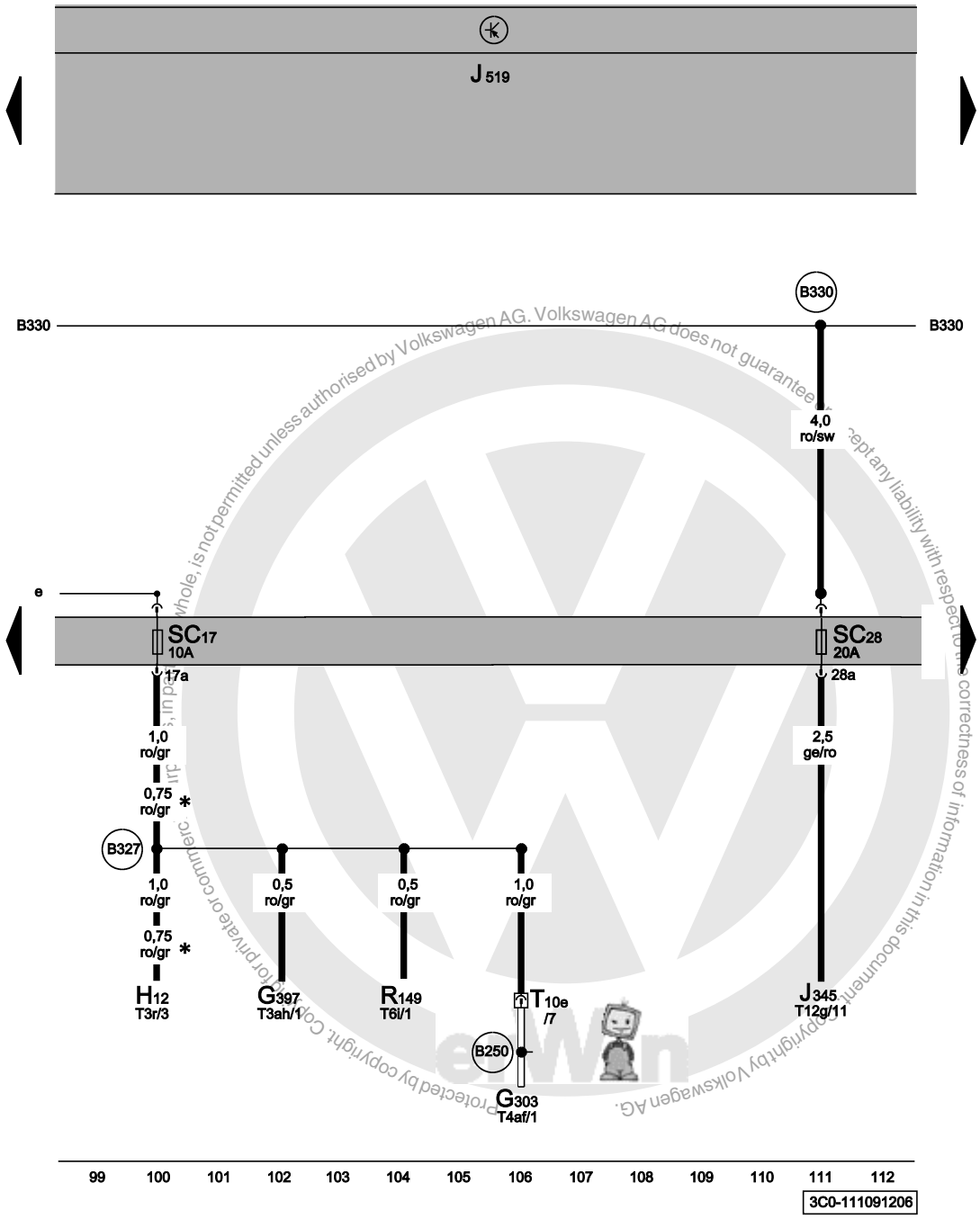


SC fuses, self-diagnosis connection

D9	Electronic ignition lock
E1	Light switch
J386	Driver door control unit
J388	Rear left door control unit
J519	Onboard supply control unit
J764	Electronic steering column lock control unit
SA4	Fuse 4 on fuse holder A
SA6	Fuse 6 on fuse holder A
SC12	Fuse 12 on fuse holder C
SC13	Fuse 13 on fuse holder C
SC14	Fuse 14 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC16	Fuse 16 on fuse holder C
SF1	Fuse 1 on fuse holder F
T10j	10-pin connector
T10k	10-pin connector
T16f	16-pin connector
T18d	18-pin connector
T20g	20-pin connector
T16d	16-pin connector, self-diagnosis connection
T28	28-pin connector, coupling point, left A-pillar
T28a	28-pin connector
B330	Connection 16 (30a), in main wiring harness
B331	Connection 17 (30a), in main wiring harness
*	Applicable from November 2006
**	Only models with E-box low
***	Only models with E-box high
****	Only models with rear battery
---	Only models with rear electric window regulators

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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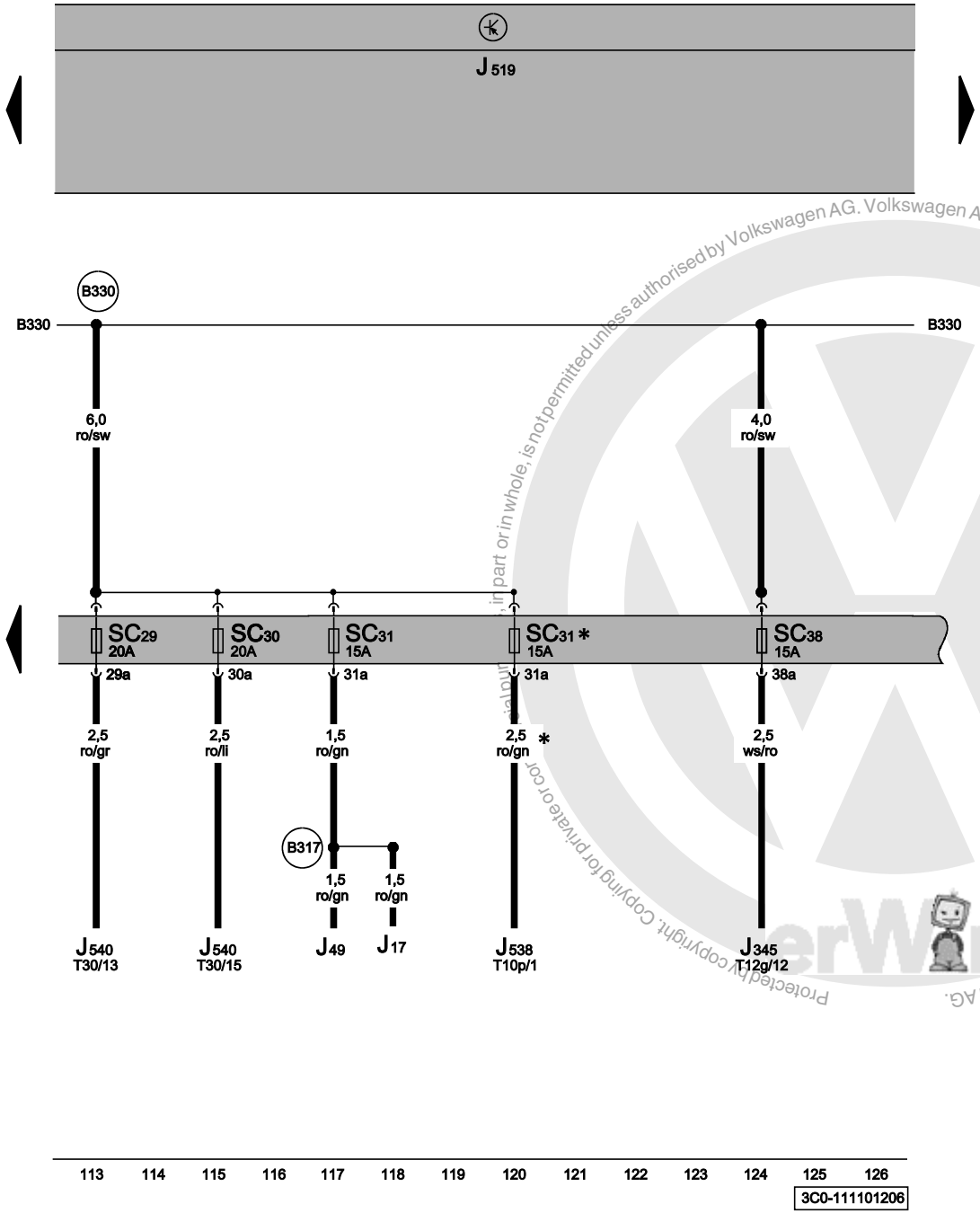


ws = white
sw = black
ro = red
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gn = green
bl = blue
gr = grey
li = purple
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rs = pink

SC fuses

G303	Interior monitor send and receive module 1
G397	Rain and light sensor
H12	Alarm horn
J345	Trailer detector control unit
J519	Onboard supply control unit
R149	Remote control receiver for supplementary coolant heater
SC17	Fuse 17 on fuse holder C
SC28	Fuse 28 on fuse holder C
T3r	3-pin connector
T3ah	3-pin connector
T4af	4-pin connector
T6i	6-pin connector
T10e	10-pin connector, near interior mirror
T12g	12-pin connector, coupling point for trailer coupling
B250	Positive connection, in roof wiring harness
B327	Connection 13 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
*	Applicable from November 2006
<fo:external-graphic src="/../PDOC/samba/tools/png-convert/out//slp/ft_icons/rahmen.png" content-width="20pt" scaling="uniform"/>	Flexible printed circuit

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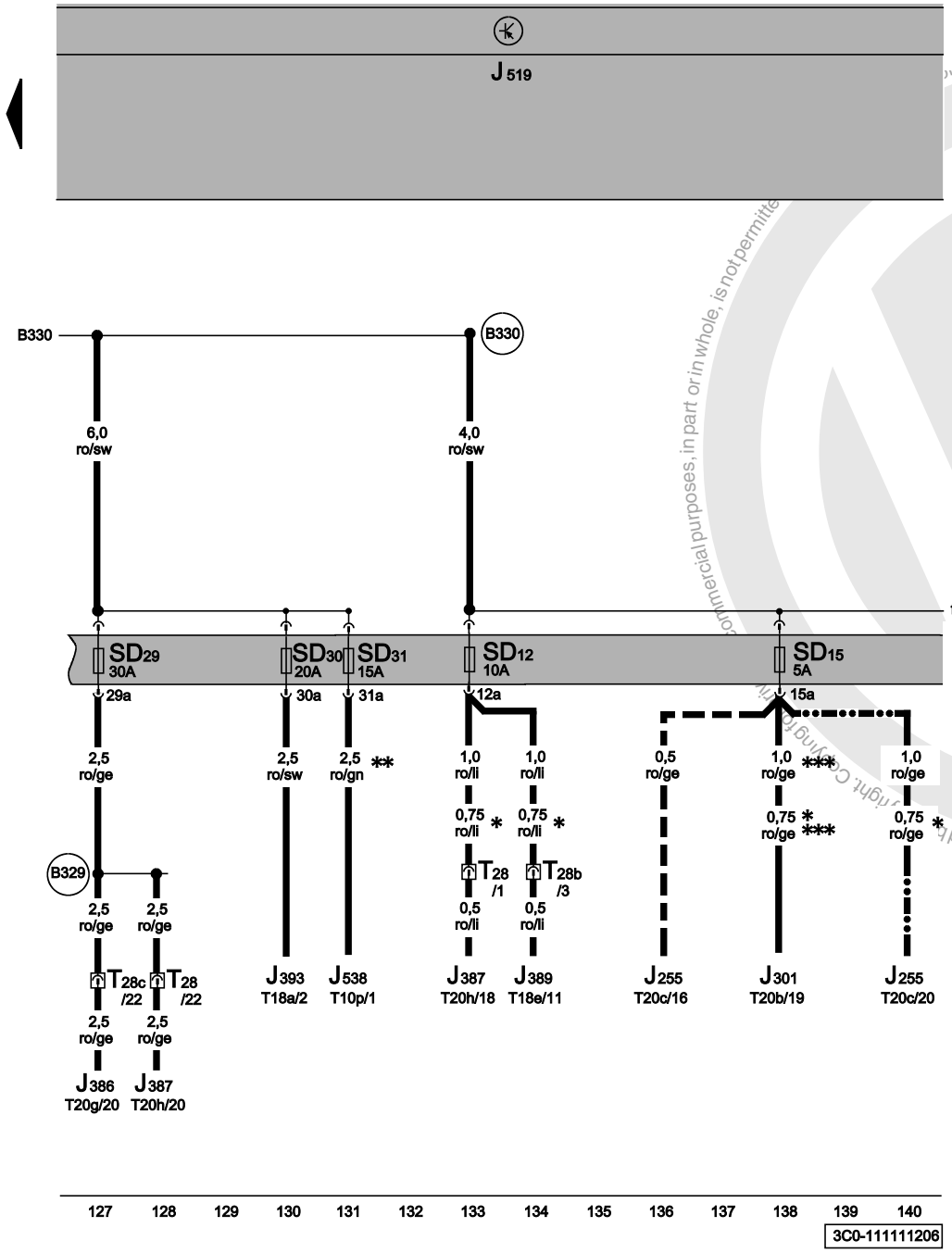


SC fuses

J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J345	Trailer detector control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
J540	Control unit for electromechanical parking brake
SC29	Fuse 29 on fuse holder C
SC30	Fuse 30 on fuse holder C
SC31	Fuse 31 on fuse holder C
SC38	Fuse 38 on fuse holder C
T10p	10-pin connector
T12g	12-pin connector, coupling point for trailer coupling
T30	30-pin connector
B317	Connection 3 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
*	Applicable from November 2006

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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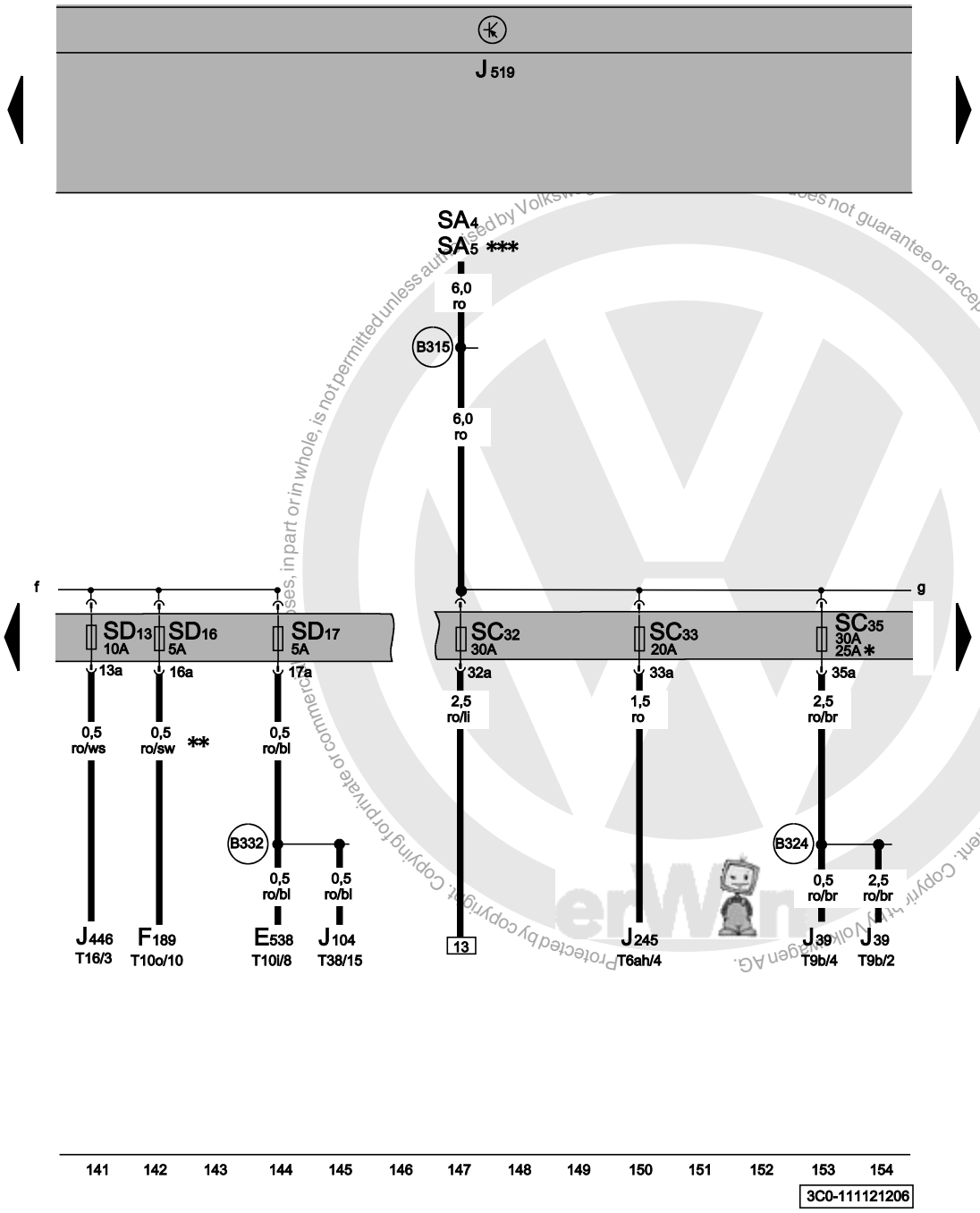


SD fuses

J255	Climatronic control unit
J301	Air conditioning system control unit
J386	Driver door control unit
J387	Front passenger side door control unit
J389	Rear right door control unit
J393	Convenience system central control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
SD12	Fuse 12 on fuse holder D
SD15	Fuse 15 on fuse holder D
SD29	Fuse 29 on fuse holder D
SD30	Fuse 30 on fuse holder D
SD31	Fuse 31 on fuse holder D
T10p	10-pin connector
T18a	18-pin connector
T18e	18-pin connector
T20b	20-pin connector, black
T20c	20-pin connector
T20g	20-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28b	28-pin connector
T28c	28-pin connector, coupling point, left A-pillar
B329	Connection 15 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
*	Applicable from November 2006
**	Applicable to October 2006
***	Only models with Climatic
---	Only models with Climatronic
-●●-	Only models with Climatronic and auxiliary heater

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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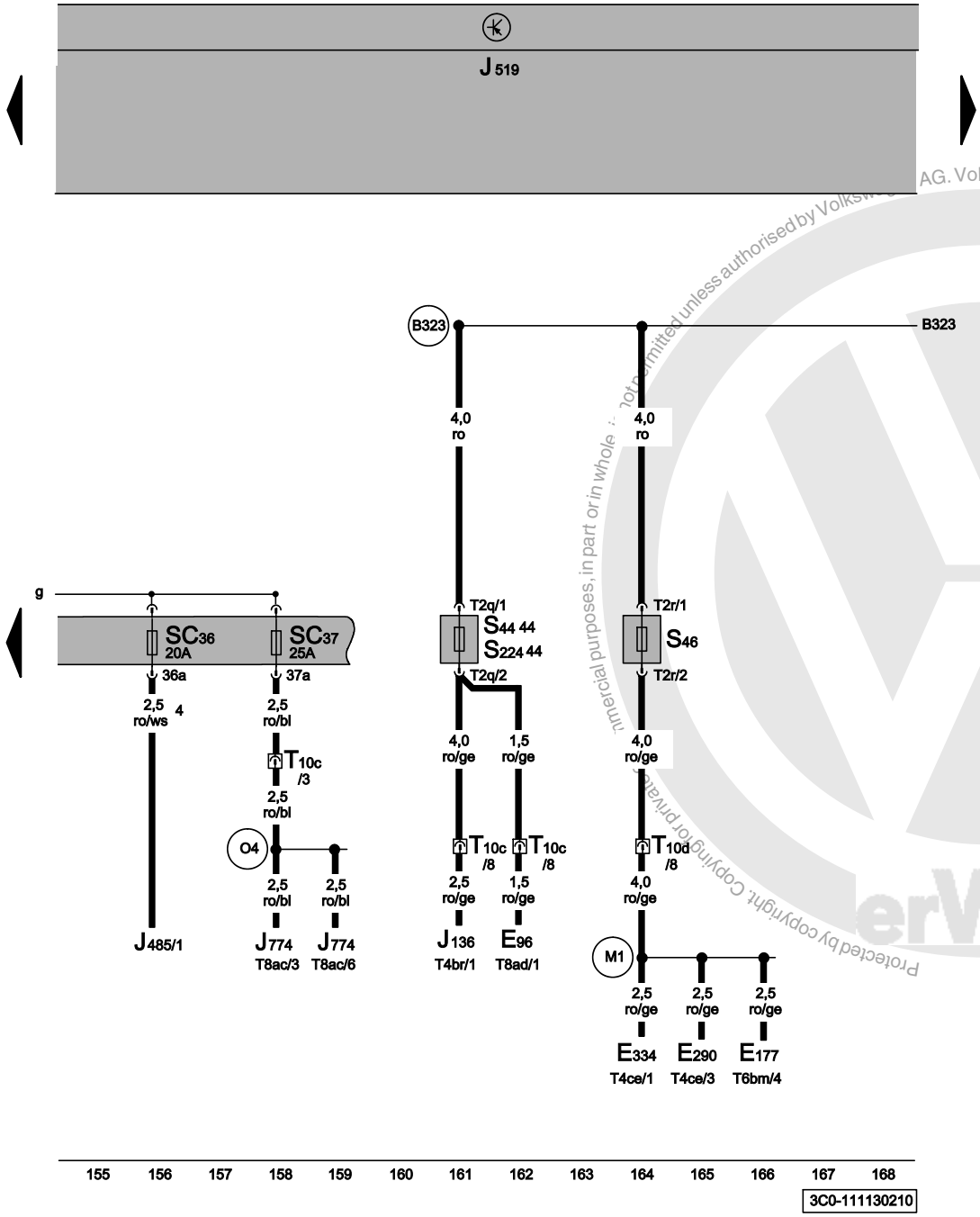


SD fuses, SC fuses

E538	Electromechanical parking brake button
F189	Tiptronic switch
J39	Headlight washer system relay
J104	ABS control unit
J245	Sliding sunroof adjustment control unit
J446	Parking aid control unit
J519	Onboard supply control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC32	Fuse 32 on fuse holder C
SC33	Fuse 33 on fuse holder C
SC35	Fuse 35 on fuse holder C
SD13	Fuse 13 on fuse holder D
SD16	Fuse 16 on fuse holder D
SD17	Fuse 17 on fuse holder D
T6ah	6-pin connector
T9b	9-pin connector
T10i	10-pin connector
T10o	10-pin connector, on gearbox
T16	16-pin connector
T38	38-pin connector
B315	Connection 1 (30a), in main wiring harness
B324	Connection 10 (30a), in main wiring harness
B332	Connection 18 (30a), in main wiring harness
*	Applicable from November 2006
**	Only models with rear battery
***	Only models with automatic gearbox

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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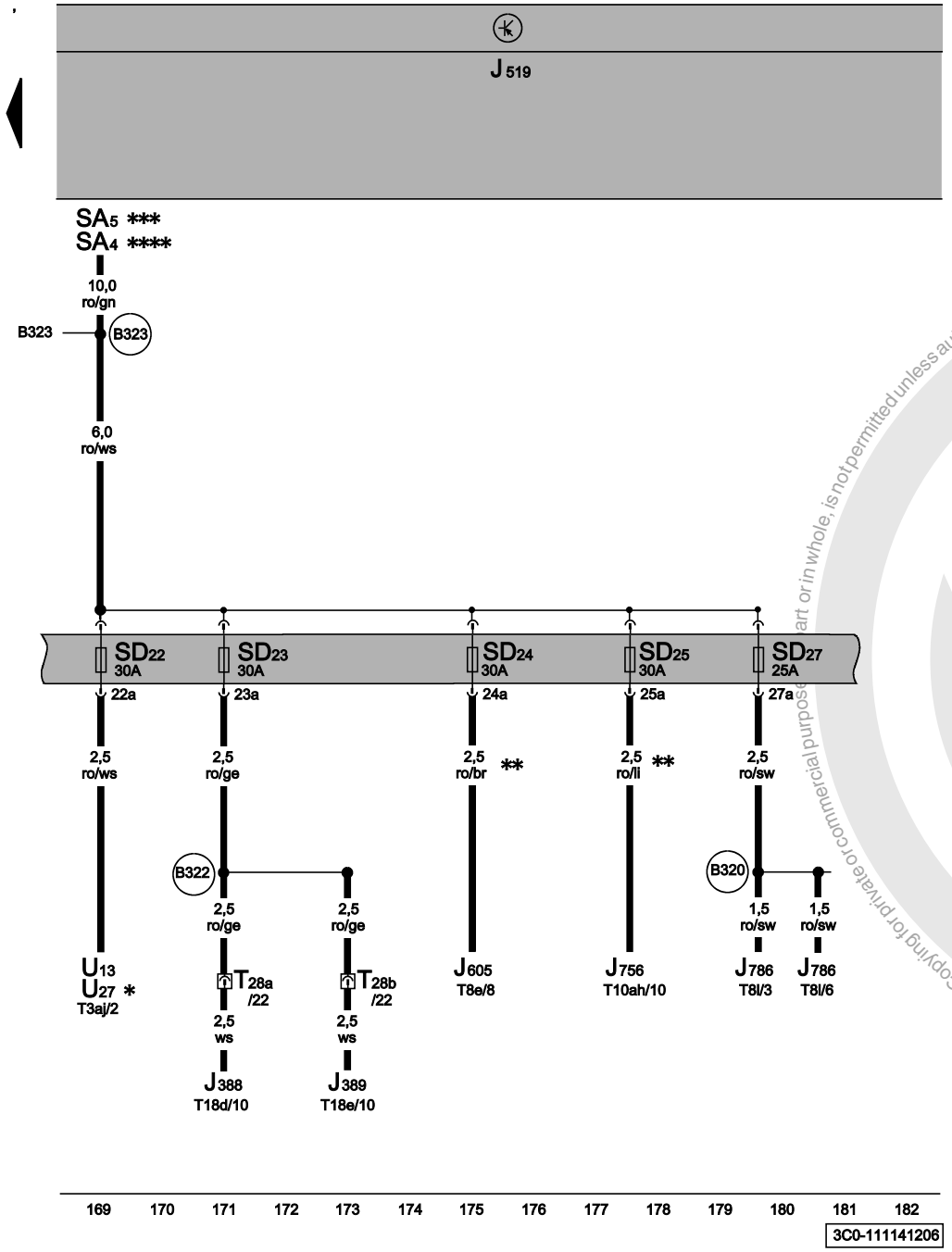


SC fuses, thermal Fuse

E96	Driver seat backrest adjustment switch
E177	Front passenger seat lumbar support adjustment switch
E290	Front passenger side height adjustment switch
E334	Front passenger seat rake adjustment button
J136	Seat and steering column adjustment control unit with memory
J485	Auxiliary heater operation relay
J519	Onboard supply control unit
J774	Control unit for heated front seats
S44	Driver seat adjustment thermal fuse 1
S46	Front passenger seat adjustment thermal fuse 1
S224	Fuse in fuse holder
SC36	Fuse 36 on fuse holder C
SC37	Fuse 37 on fuse holder C
T2q	2-pin connector
T2r	2-pin connector
T4br	4-pin connector
T4ce	4-pin connector
T6bm	6-pin connector
T8ac	8-pin connector
T8ad	8-pin connector
T10c	10-pin connector, coupling point driver side, under seat
T10d	10-pin connector, coupling point front passenger side, under seat
B323	Connection 9 (30a), in main wiring harness
M1	Positive connection 1 (30), in seat adjustment wiring harness
O4	Positive connection (30), in seat heating wiring harness
*	Only models with Climatic and auxiliary heater
**	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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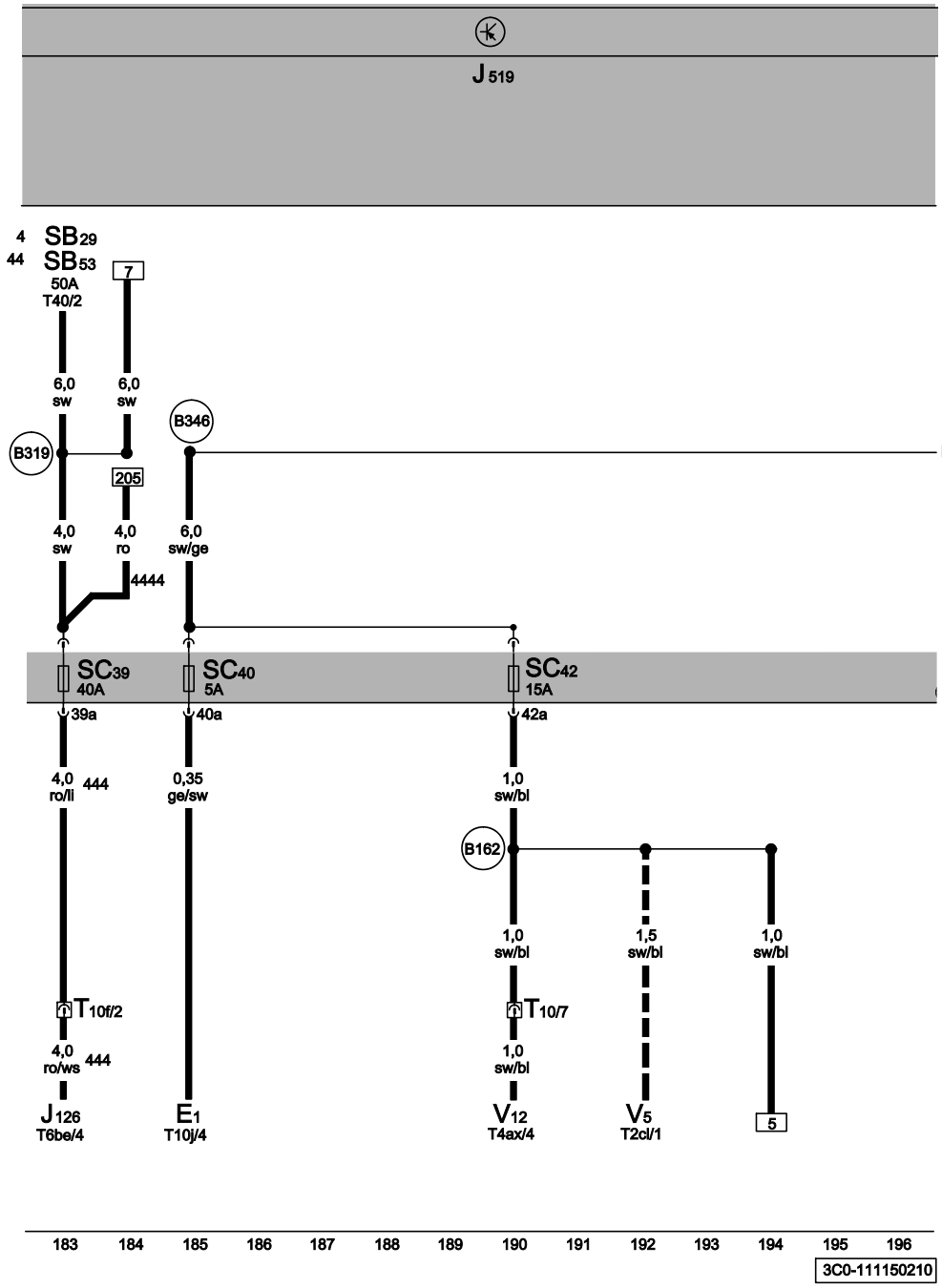


SD fuses

J388	Rear left door control unit
J389	Rear right door control unit
J519	Onboard supply control unit
J605	Rear lid control unit
J756	Rear lid control unit 2
J786	Heated rear seats control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SD22	Fuse 22 on fuse holder D
SD23	Fuse 23 on fuse holder D
SD24	Fuse 24 on fuse holder D
SD25	Fuse 25 on fuse holder D
SD27	Fuse 27 on fuse holder D
T3aj	3-pin connector
T8e	8-pin connector
T8l	8-pin connector
T10ah	10-pin connector
T18d	18-pin connector
T18e	18-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
U13	AC/DC converter with socket, 12 V - 230 V
U27	AC/DC converter with socket, 12 V - 230 V
B320	Connection 6 (30a), in main wiring harness
B322	Connection 8 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness
*	Only American markets
**	Only Variant models
***	Only models with E-box low
****	Only models with E-box high

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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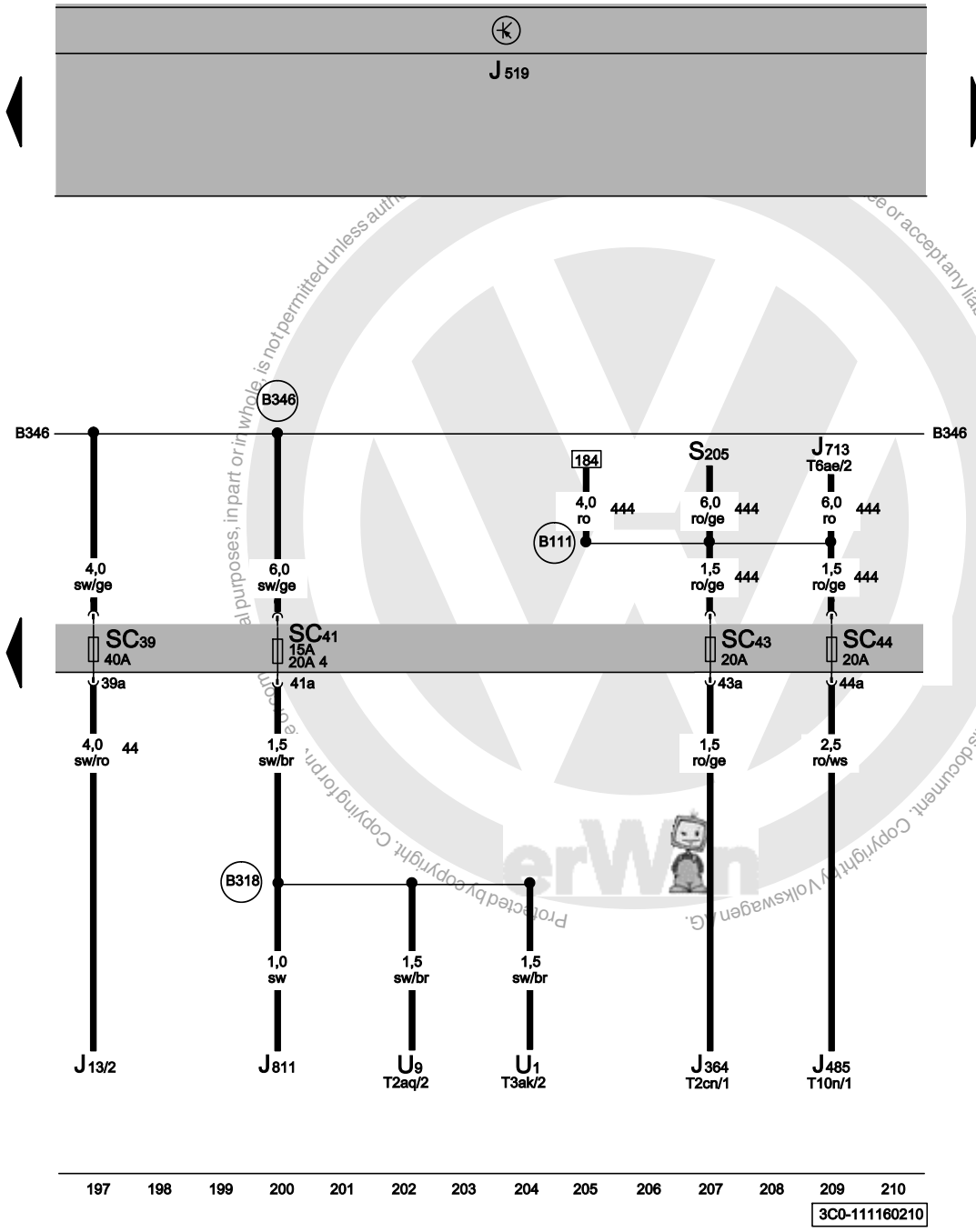


SD fuses, SC fuses

E1	Light switch
J126	Fresh air blower control unit
J519	Onboard supply control unit
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC39	Fuse 39 on fuse holder C
SC40	Fuse 40 on fuse holder C
SC42	Fuse 42 on fuse holder C
T2cl	2-pin connector
T4ax	4-pin connector
T6be	6-pin connector
T10	10-pin connector
T10f	10-pin connector, coupling point for heater/air conditioning system
T10j	10-pin connector
T40	40-pin connector, under E-box, in engine compartment
V5	Washer pump
V12	Rear window wiper motor
B162	Connection (75a), in interior wiring harness
B319	Connection 5 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Only models with Climatronic
****	Only models with second battery
---	Only On saloon models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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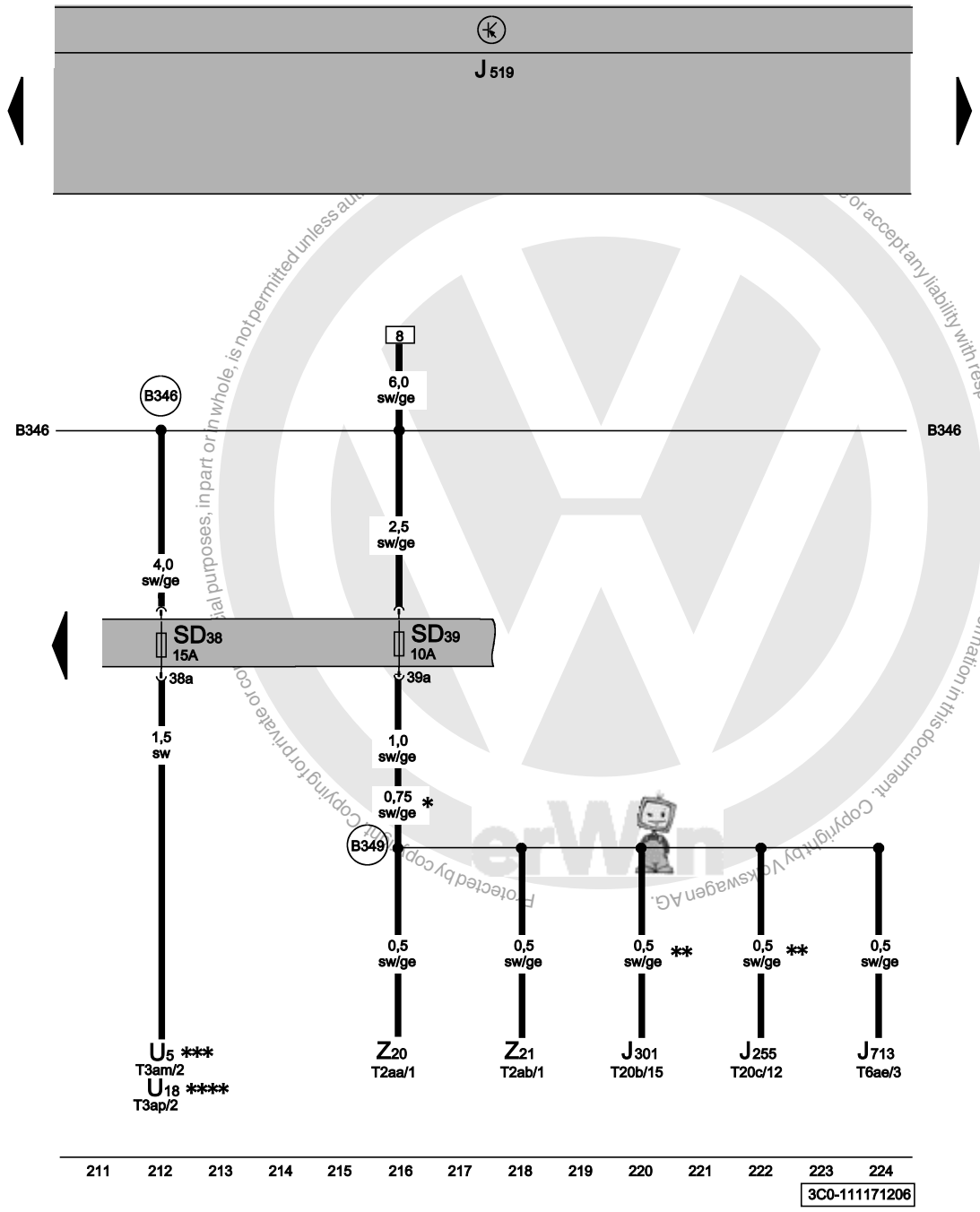


SC fuses, SD fuses

J13	Fresh air blower relay
J364	Auxiliary heater control unit
J485	Auxiliary heater operation relay
J519	Onboard supply control unit
J713	Second battery charging circuit relay
J811	Blocking diode 2
S205	Fuse 2 (30)
SC39	Fuse 39 on fuse holder C
SC41	Fuse 41 on fuse holder C
SC43	Fuse 43 on fuse holder C
SC44	Fuse 44 on fuse holder C
T2aq	2-pin connector
T2cn	2-pin connector
T3ak	3-pin connector
T6ae	6-pin connector
T10n	10-pin connector, on E-box
U1	Cigarette lighter
U9	Rear cigarette lighter
B111	Positive connection 1 (30a), in interior wiring harness
B318	Connection 4 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
*	Applicable from November 2006
**	Only models with Climatronic
***	Only models with second battery

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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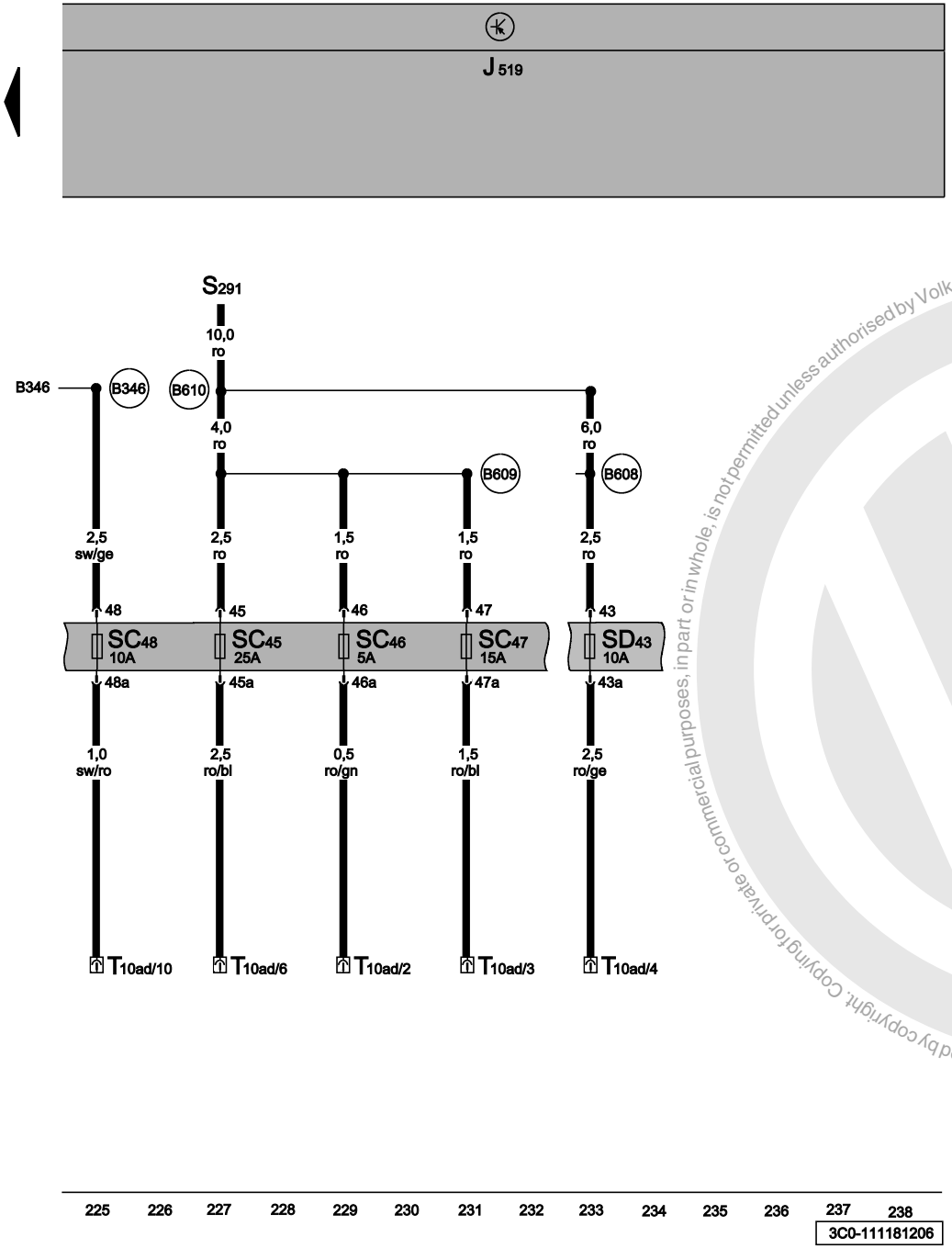


SD fuse

J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
J713	Second battery charging circuit relay
SD38	Fuse 38 on fuse holder D
SD39	Fuse 39 on fuse holder D
T2aa	2-pin connector
T2ab	2-pin connector
T3am	3-pin connector
T3ap	3-pin connector
T6ae	6-pin connector
T20b	20-pin connector, black
T20c	20-pin connector
U5	12 V socket
U18	12 V socket 2
Z20	Left washer jet heater element
Z21	Right washer jet heater element
B346	Connection 1 (75), in main wiring harness
B349	Connection 2 (75A), in main wiring harness
*	Applicable from November 2006
**	Only models with heated seat
***	Only saloon
****	Only On Variant

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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SC fuses for special vehicles, SD fuses for special vehicles

J519	Onboard supply control unit
S291	Special vehicle fuse 1, extra fuse box on left headlight
SC45	Fuse 45 on fuse holder C
SC46	Fuse 46 on fuse holder C
SC47	Fuse 47 on fuse holder C
SC48	Fuse 48 on fuse holder C
SD43	Fuse 43 on fuse holder D
T10ad	10-pin connector, black, coupling point, left A-pillar
B346	Connection 1 (75), in main wiring harness
B608	Connection 4, in interior wiring harness
B609	Connection 5, in interior wiring harness
B610	Connection 6, in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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Preparation for infotainment Japan

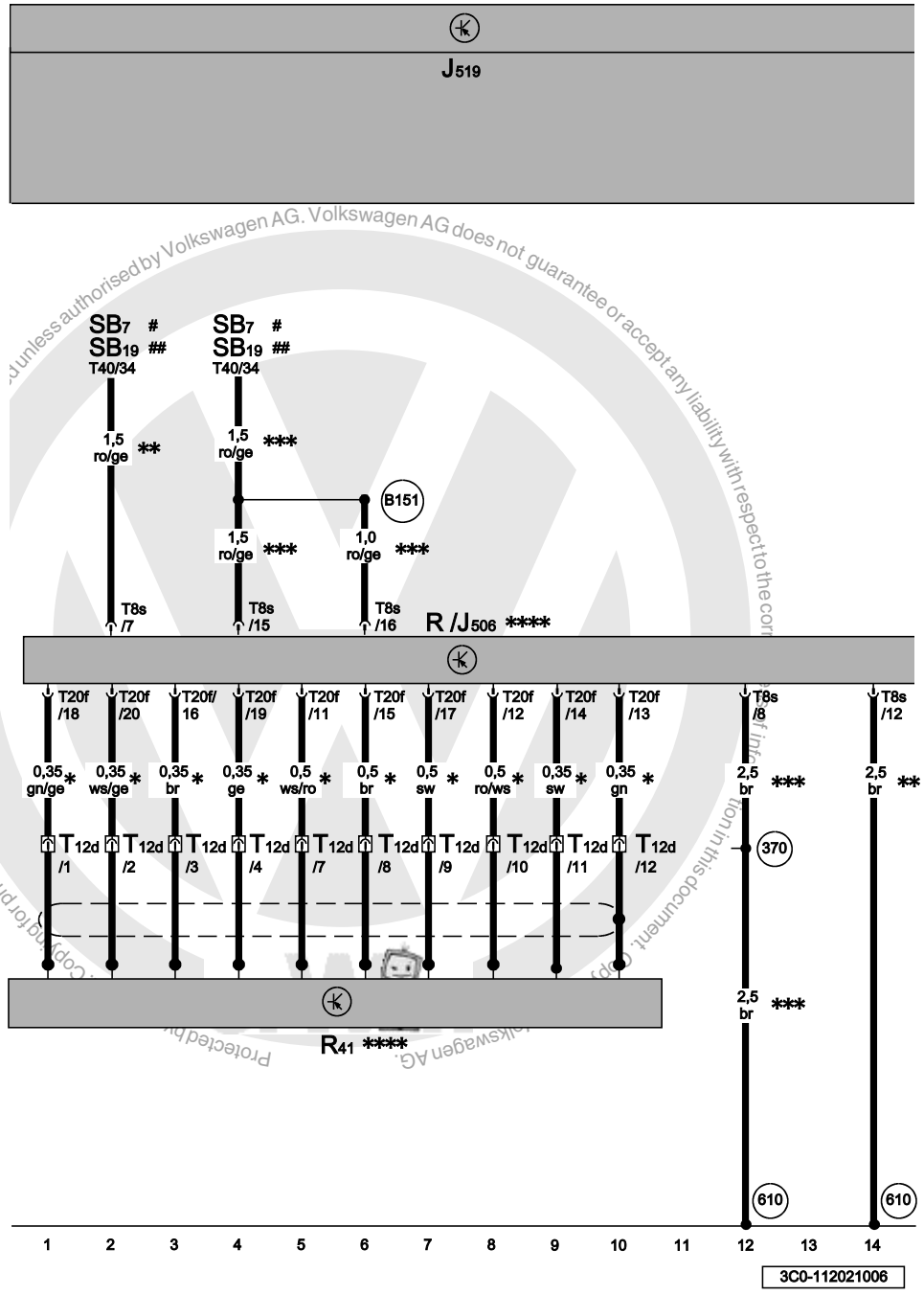
⇒ **CD changer**
from May 2005

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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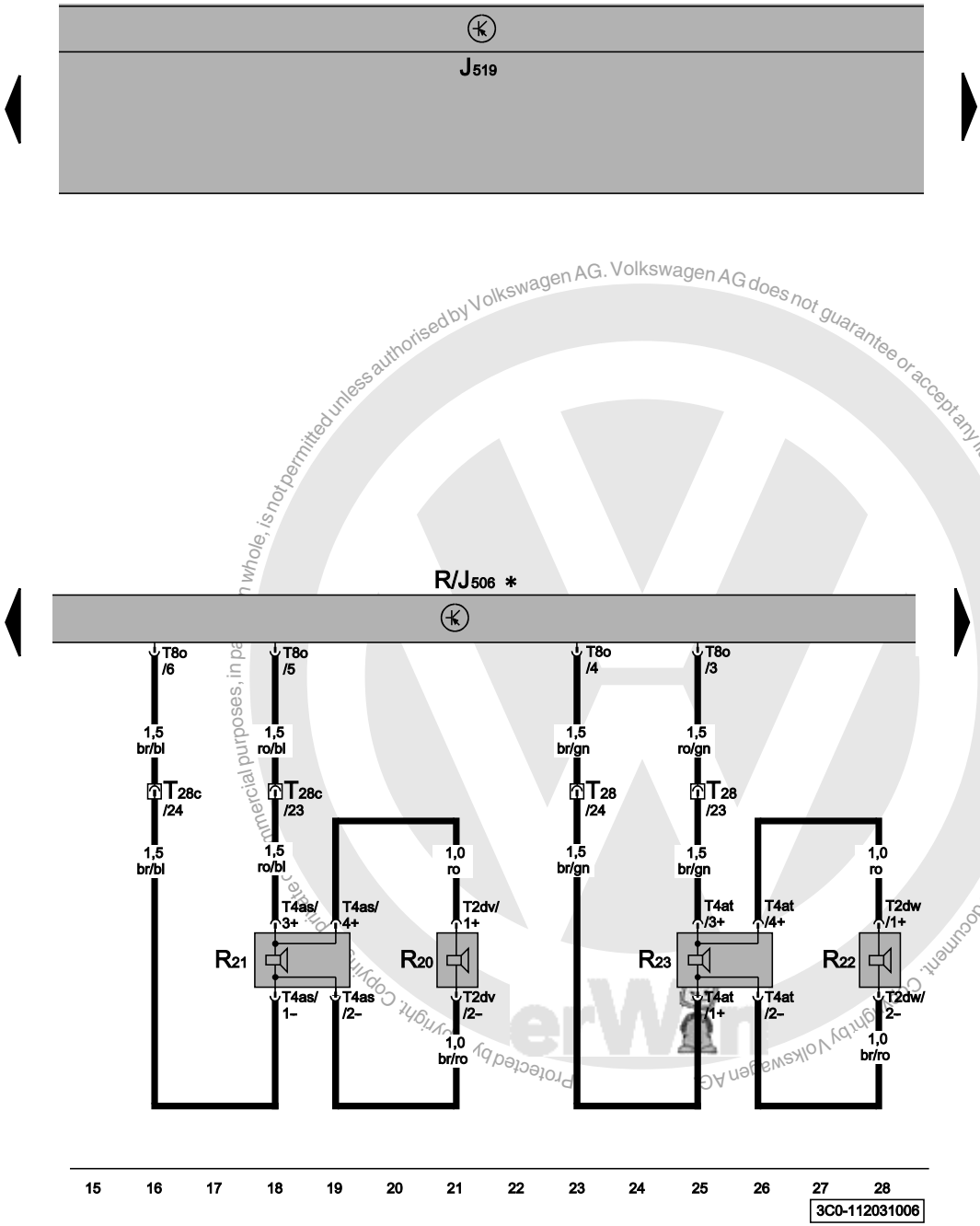


Voltage supply for radio, control unit with display for TV, radio navigation, CD changer

J506	Control unit with display for TV, radio navigation
J519	Onboard supply control unit
R	Radio
R41	CD changer
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T8s	8-pin connector, black
T12d	12-pin connector, near CD changer
T20f	20-pin connector
T40	40-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), under centre console, front
B151	Positive connection 3 (30a), in interior wiring harness
*	for models with CD changer of prepared for external CD changer only
**	models with preparation for navigation system Japan only
***	models with preparation for radio Japan only
****	component does not exist in the preparation
#	models with electronics box low only
##	for models with electronics box high only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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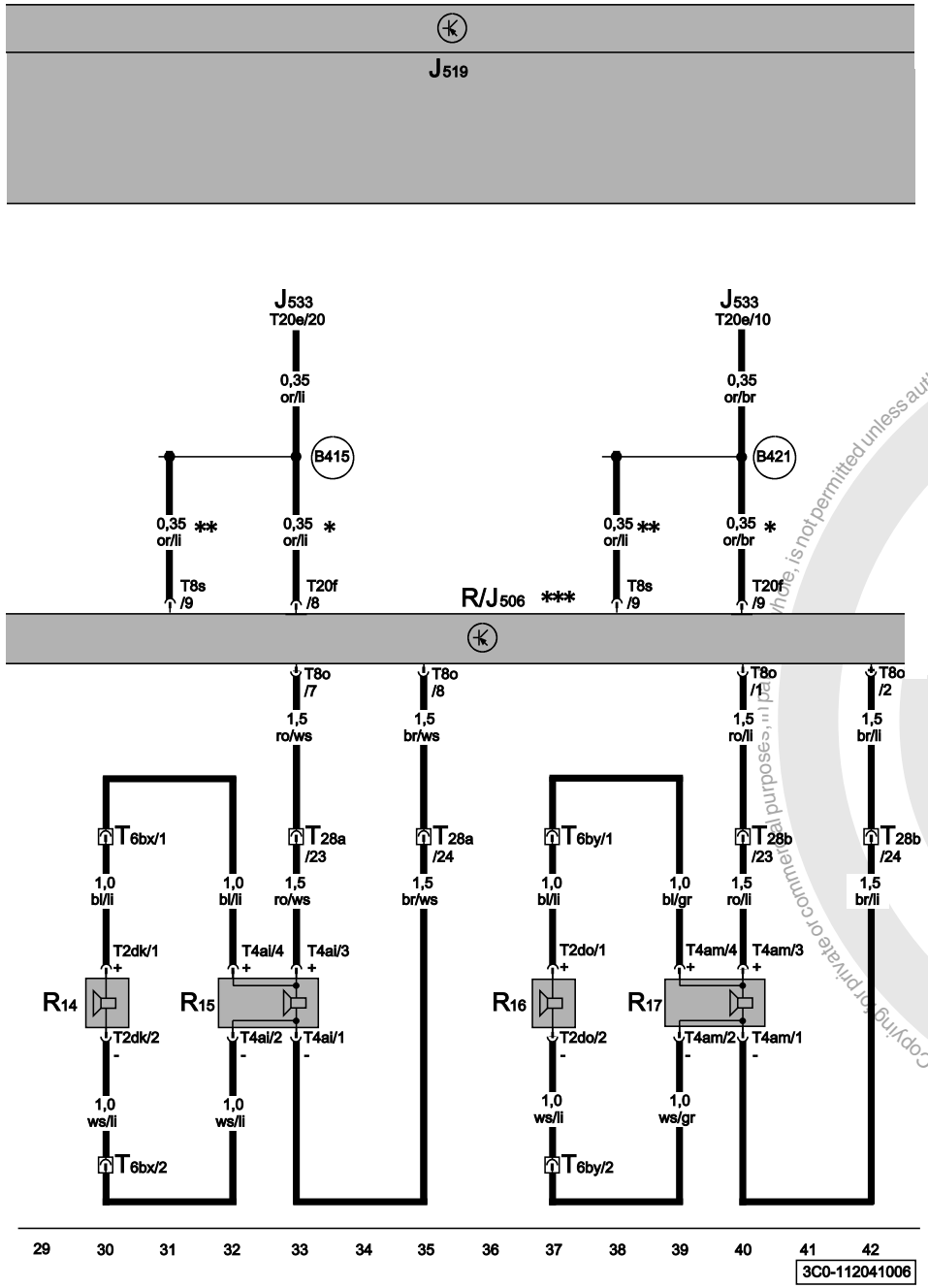


Control unit with display for TV, radio navigation, treble loudspeaker and front door bass loudspeaker

J506	Control unit with display for TV, radio navigation
J519	Onboard supply control unit
R	Radio
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T8o	8-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
*	component does not exist in the preparation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Control unit with display for TV, radio navigation, treble loudspeaker and rear door bass loudspeaker

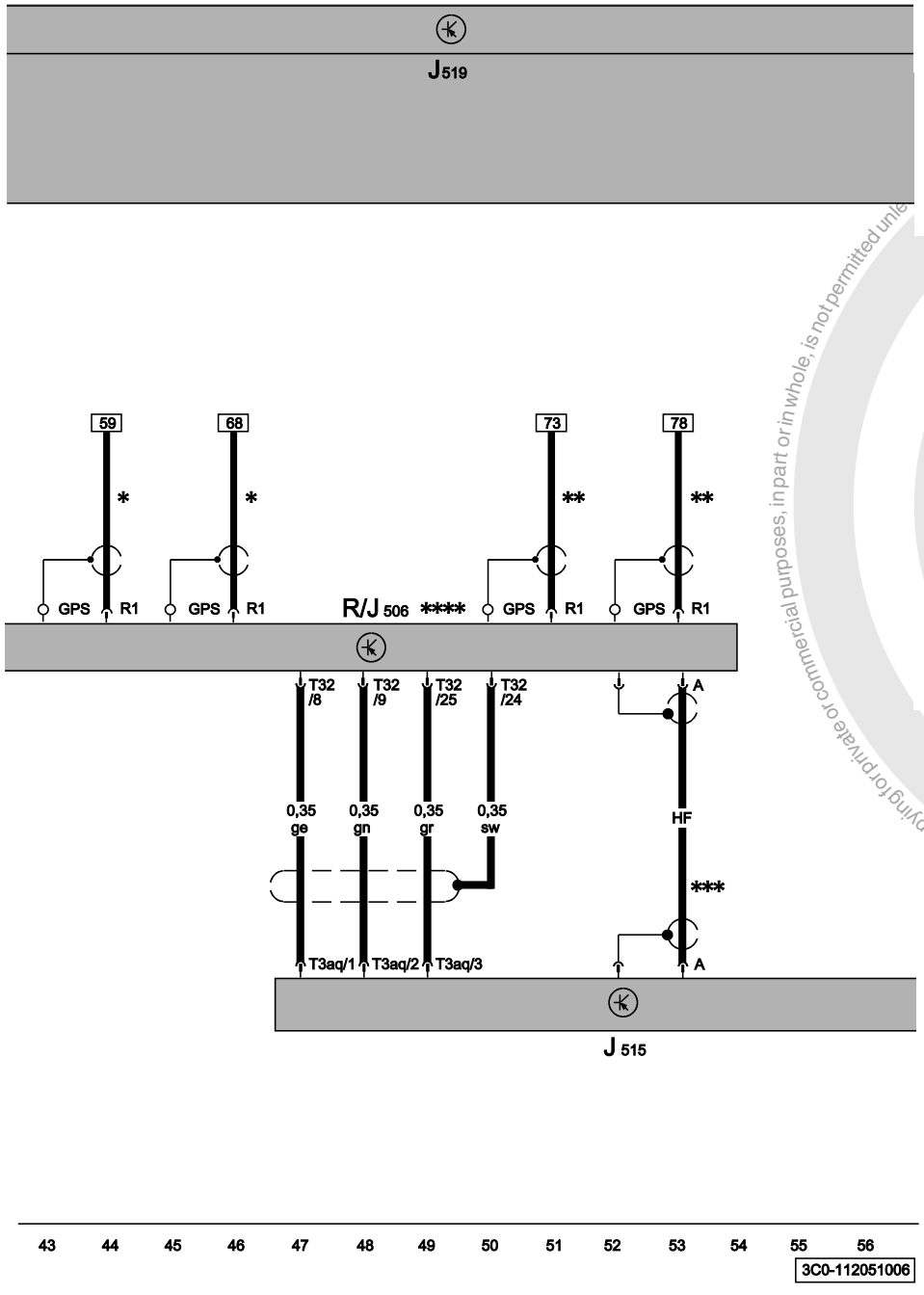
J506	Control unit with display for TV, radio navigation
J519	Onboard supply control unit
J533	Data bus diagnostic interface
R	Radio
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T8o	8-pin connector
T8s	8-pin connector, black
T20e	20-pin connector
T20f	20-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	models with preparation for navigation system Japan only
**	models with preparation for radio Japan only
***	component does not exist in the preparation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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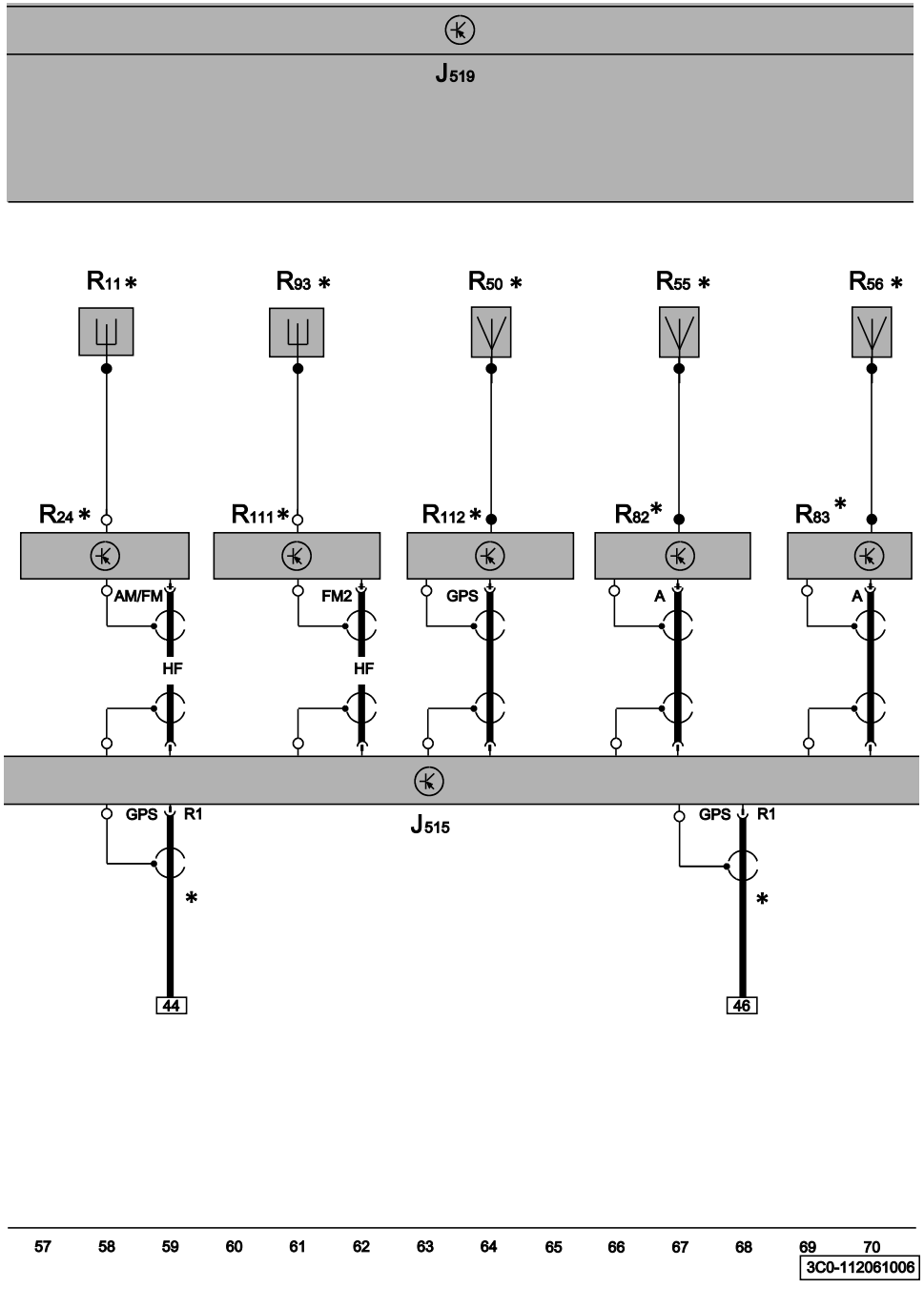
Control unit with display for TV, radio navigation, aerial selection control unit, aerial connection

J506	Control unit with display for TV, radio navigation
J515	Aerial selection control unit
J519	Onboard supply control unit
R	Radio
R1	Aerial connection
T3aq	3-pin connector
T32	32-pin connector
*	only Variant
**	only saloon models
***	Connection for TV aerials
****	component does not exist in the preparation



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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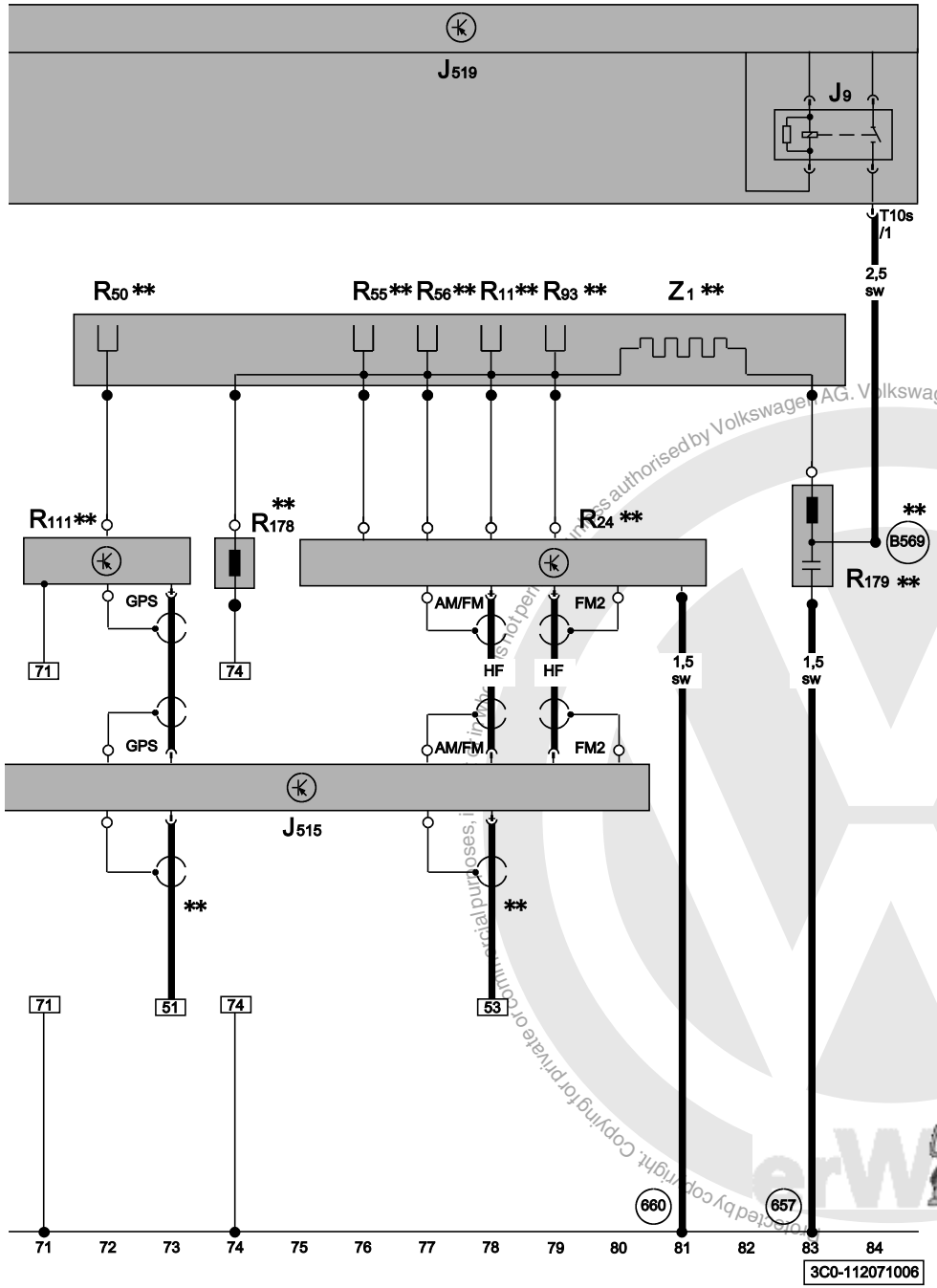


Aerial (Variant), aerial amplifier, aerial selection control unit

J515	Aerial selection control unit
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R55	TV aerial 1
R56	TV aerial 2
R82	Aerial amplifier 1 for TV
R83	Aerial amplifier 2 for TV
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
*	only Variant

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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Aerials (saloon models), aerial amplifier, frequency modulation (FM) frequency filter, aerial selection control unit

J9	Heated rear window relay
J515	Aerial selection control unit
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R55	TV aerial 1
R56	TV aerial 2
R93	Radio aerial 2
R111	Aerial amplifier 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36, in main wiring harness
**	only saloon models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Preparation for navigation system Japan

from May 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

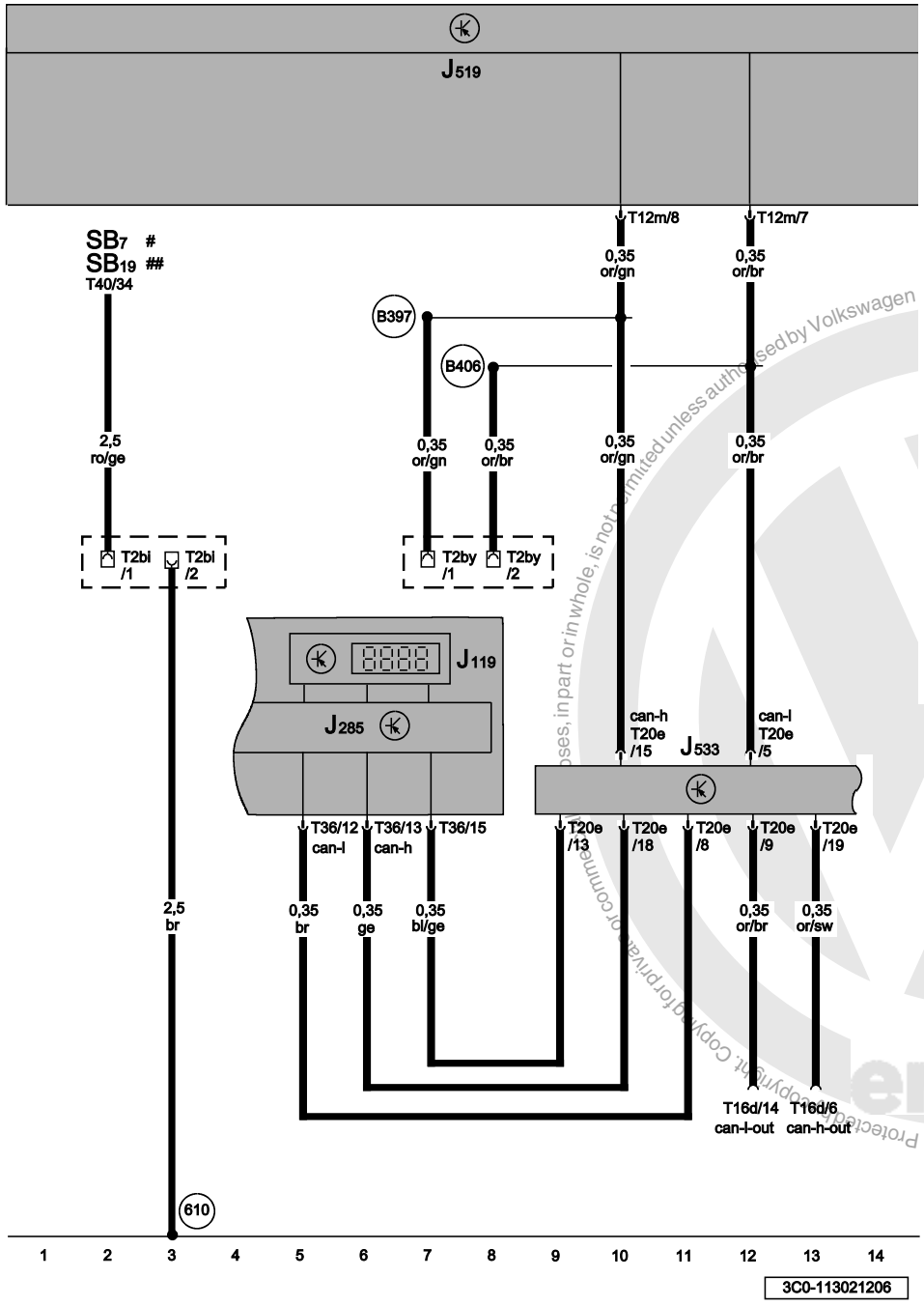
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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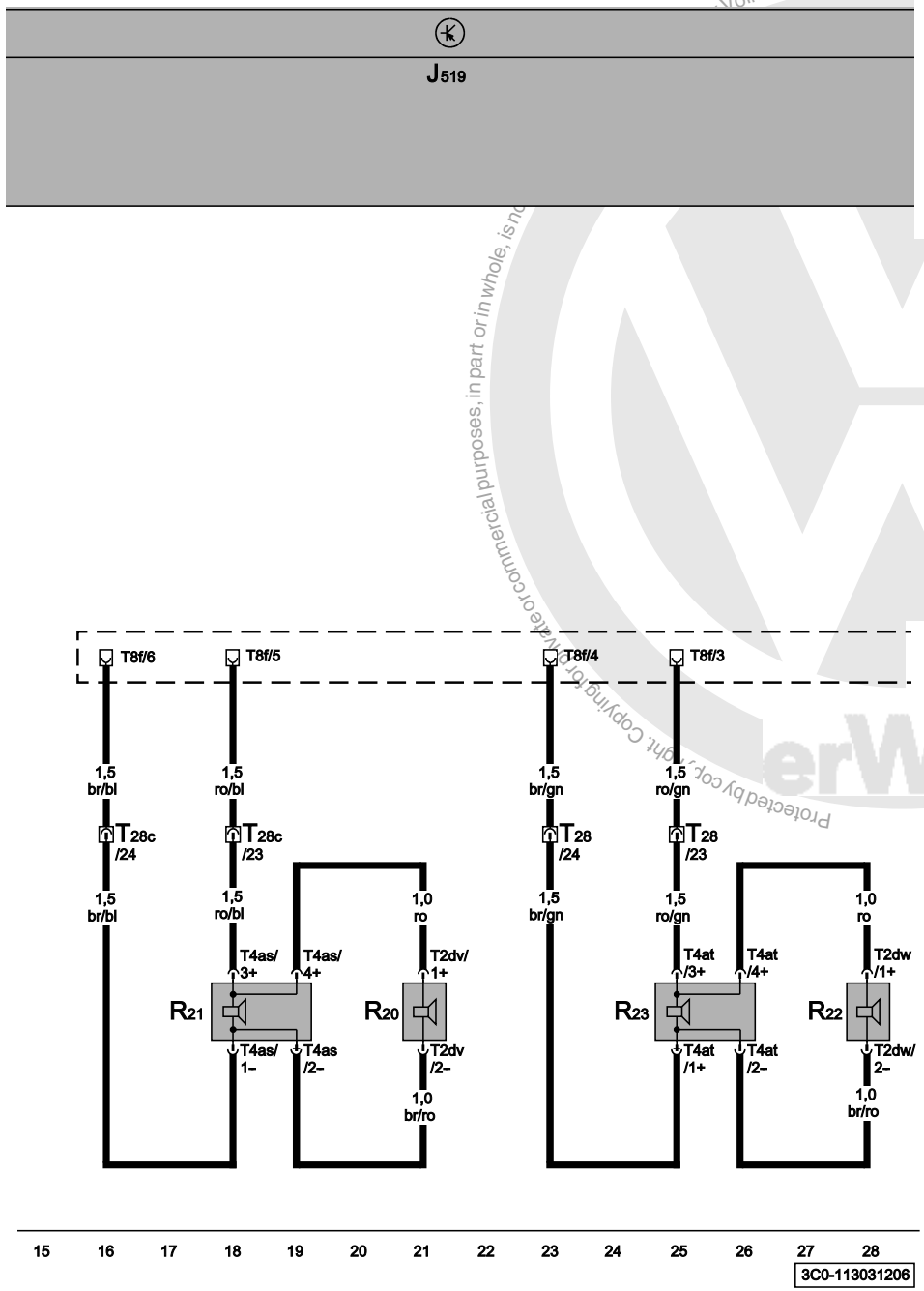
Voltage supply, onboard power supply control unit, data bus diagnostic interface, self-diagnosis connection

J119	Multifunction display
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnostic interface
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T2bi	2-pin connector, behind centre dash panel
T2by	2-pin connector, behind centre dash panel
T12m	12-pin connector, black
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T36	36-pin connector
T40	40-pin connector
610	Earth point (audio), under centre console, front
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
#	models with electronics box low only
##	for models with electronics box high only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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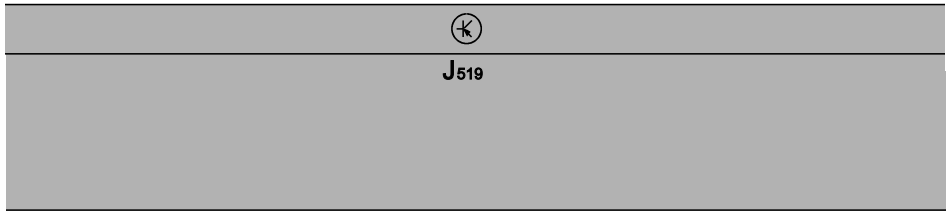
Treble loudspeaker and front doors bass loudspeaker

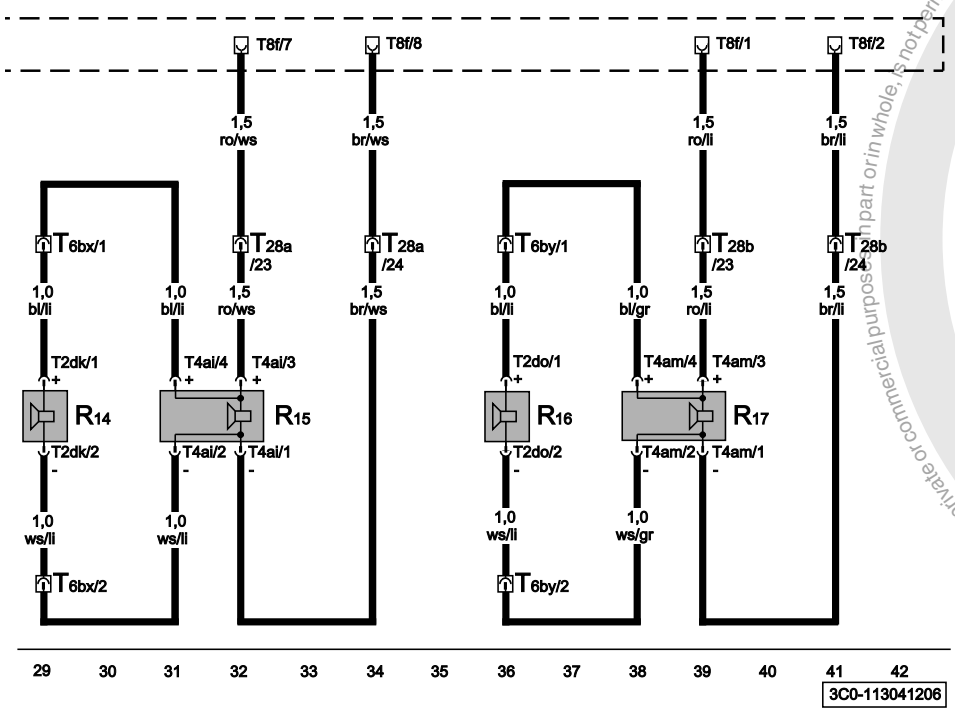
J519	Onboard supply control unit
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T8f	8-pin connector, behind centre dash panel, connection for adapter loudspeaker
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Treble loudspeaker and rear doors bass loudspeaker

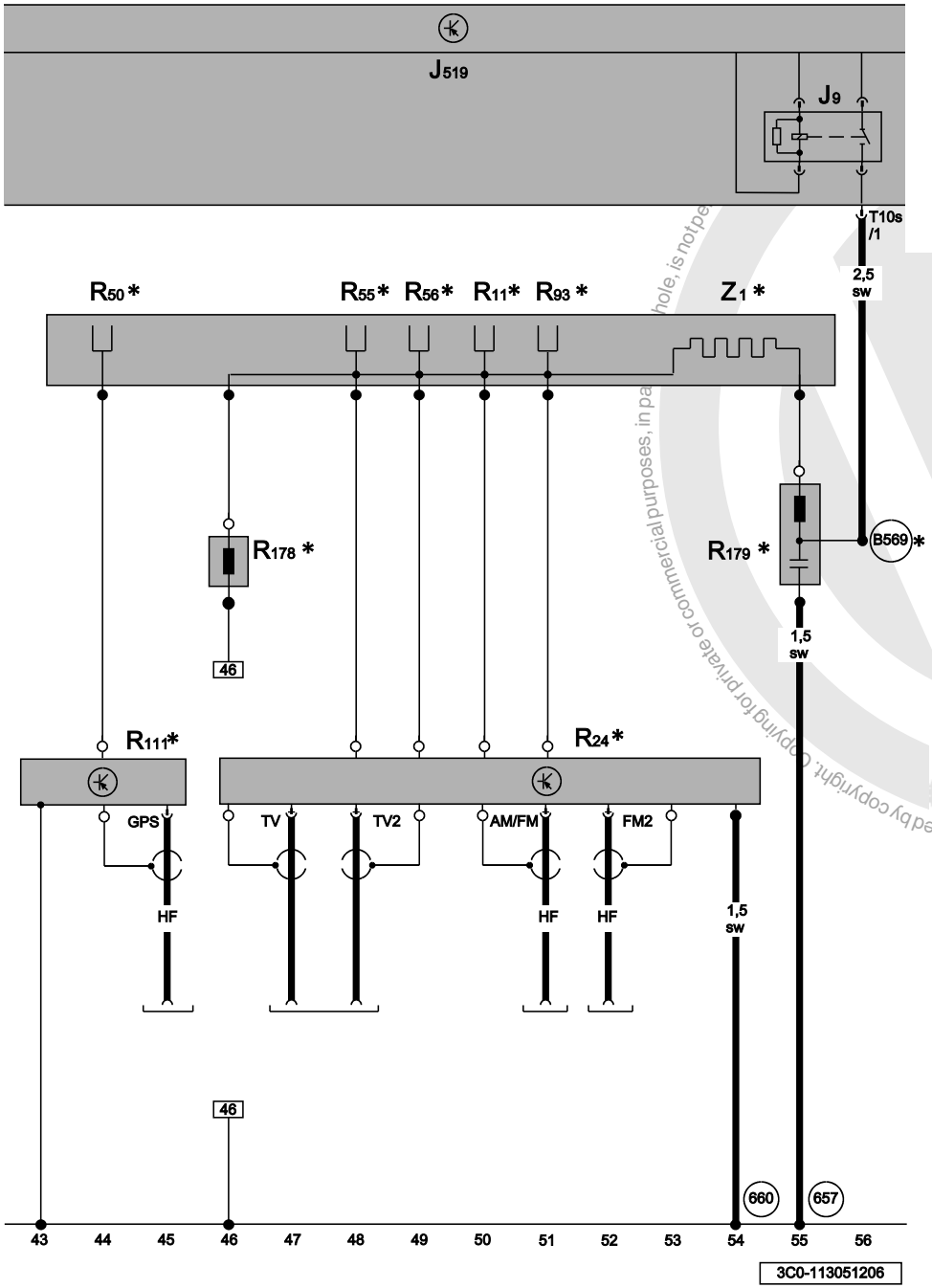
J519	Onboard supply control unit
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T8f	8-pin connector, behind centre dash panel, connection for adapter loudspeaker
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar





ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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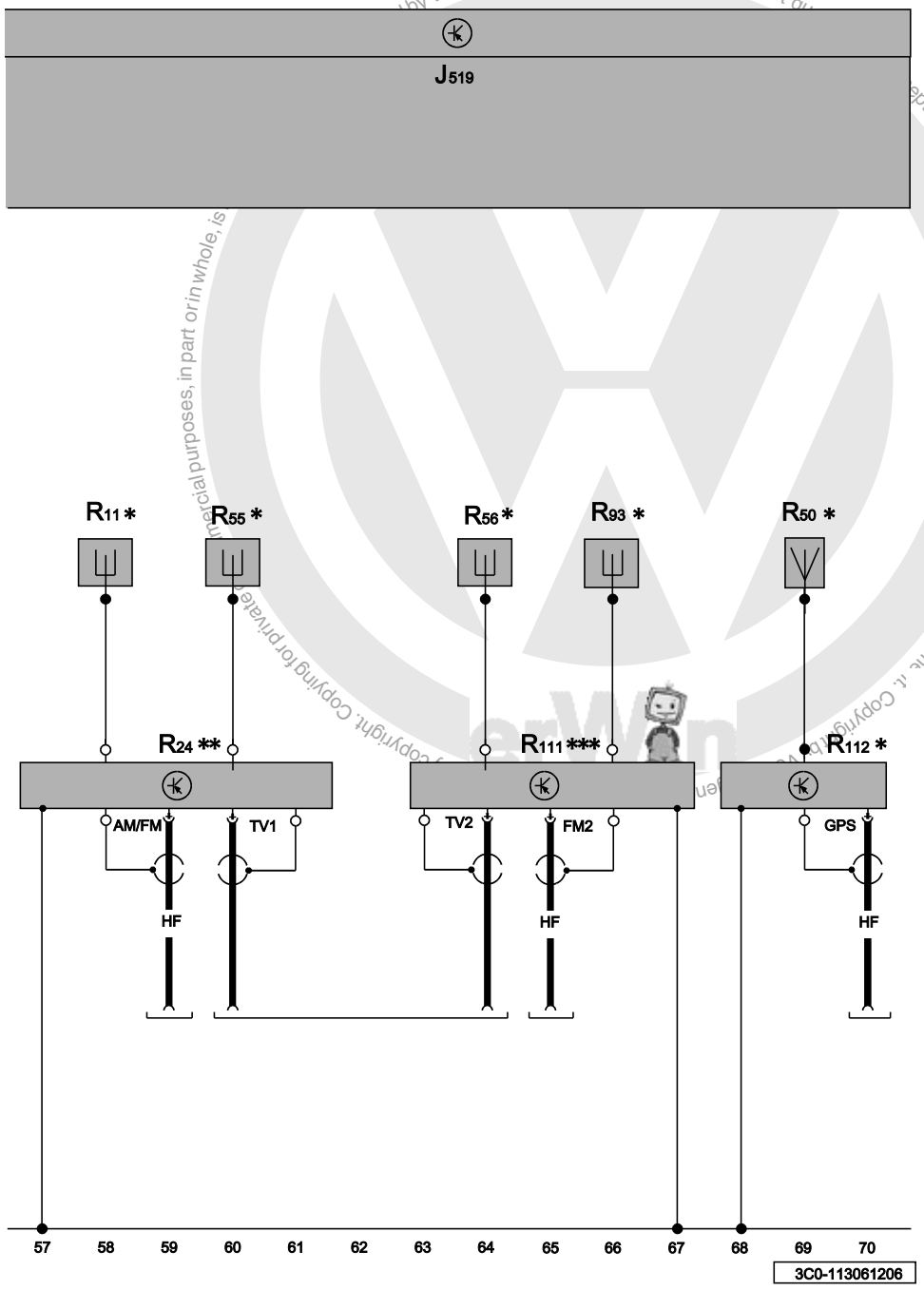


Aerials (saloon models), aerial amplifier, frequency modulation (FM) frequency filter

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R55	TV aerial 1
R56	TV aerial 2
R93	Radio aerial 2
R111	Aerial amplifier 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36, in main wiring harness
*	only saloon models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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Aerials (Variant), aerial amplifier

J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R55	TV aerial 1
R56	TV aerial 2
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
*	only Variant
**	only Variant, in left C-pillar
***	only Variant, in right C-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Universal preparation for mobile telephone - Low

From May 2007

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

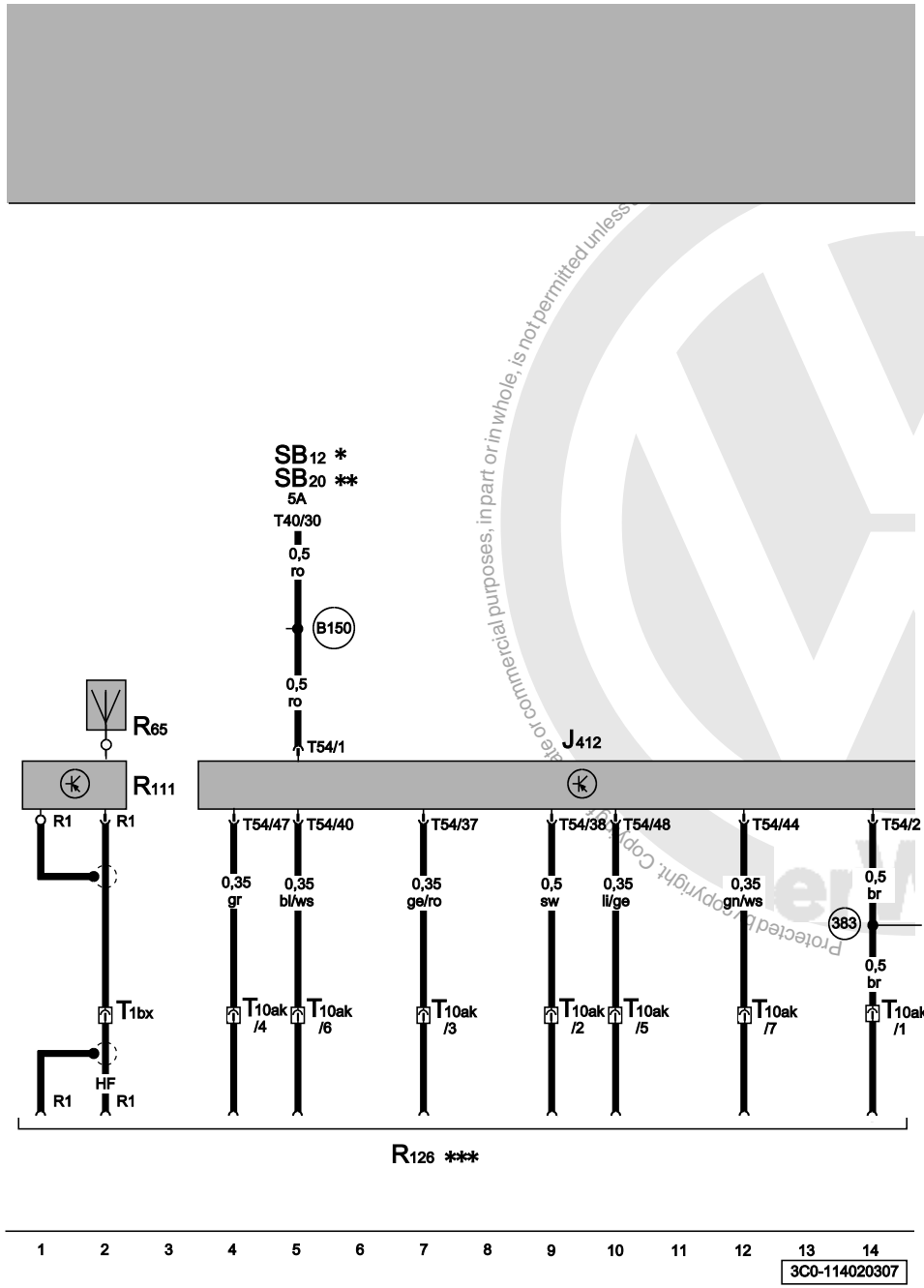
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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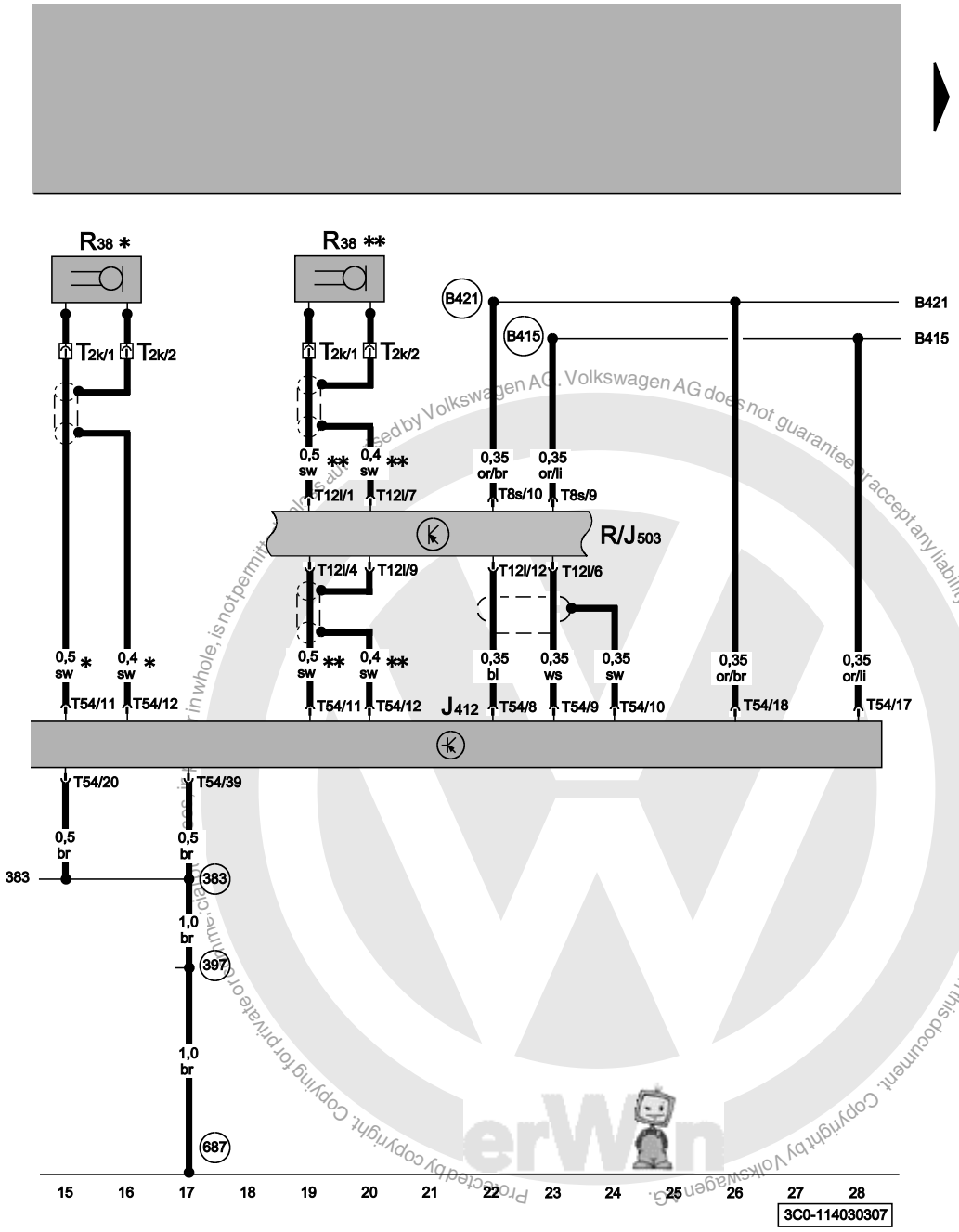


Control unit for mobile telephone operating electronics, telephone aerial, telephone holder

J412	Control unit for mobile telephone operating electronics
R1	Aerial connection
R65	Telephone aerial
R111	Aerial amplifier 2
R126	Telephone holder
SB12	Fuse 12 on fuse holder B
SB20	Fuse 20 on fuse holder B
T1bx	Single connector, behind dash panel, near centre console
T10ak	10-pin connector, behind dash panel, near centre console
T40	40-pin connector
T54	54-pin connector
383	Earth connection 18, in main wiring harness
B150	Positive connection 2 (30a), in interior wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Mounting for charging unit

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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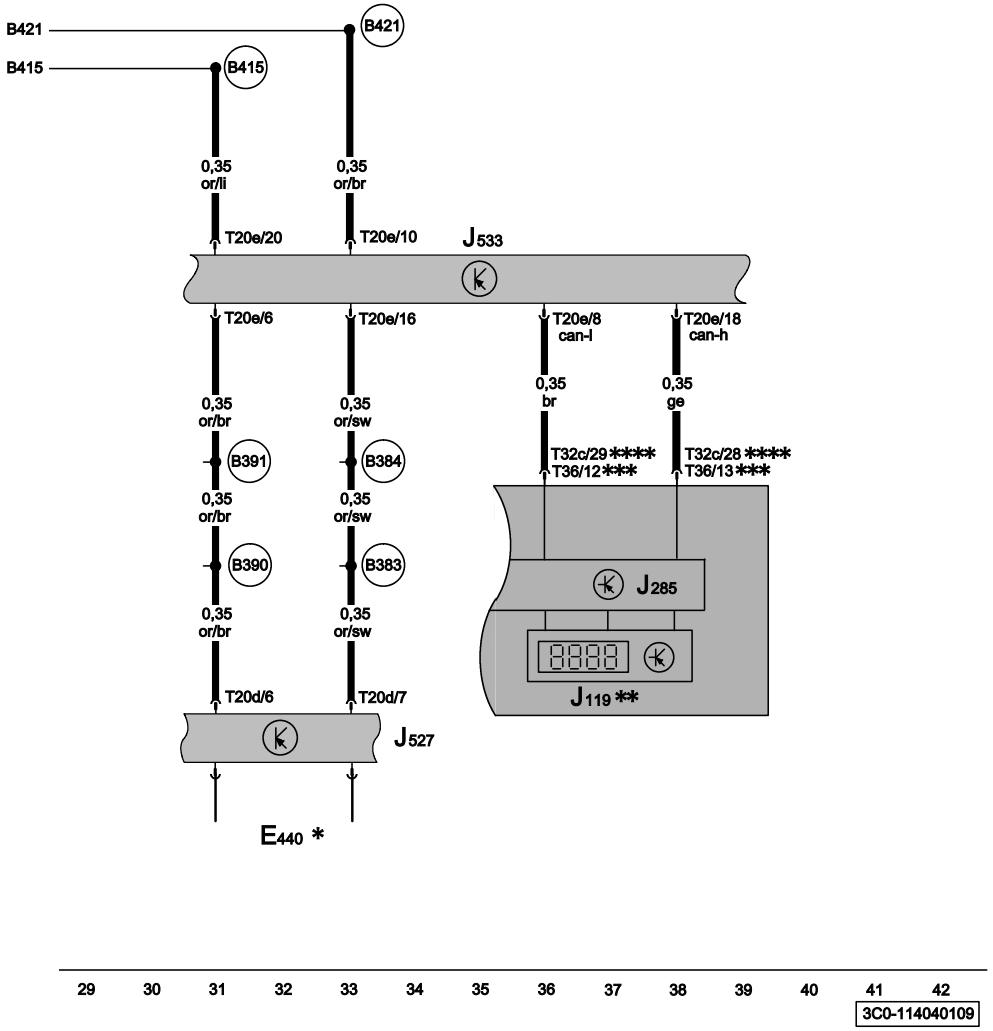


Control unit for mobile telephone operating electronics, telephone microphone, control unit with display for radio and navigation system

J412	Control unit for mobile telephone operating electronics
J503	Control unit with display for radio and navigation
R	Radio
R38	Telephone microphone
T2k	2-pin connector
T8s	8-pin connector
T12l	12-pin connector
T54	54-pin connector
383	Earth connection 18, in main wiring harness
397	Earth connection 32, in main wiring harness
687	Earth point 1, on centre tunnel
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only models with radio system
**	Only models with navigation system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Data bus diagnosis interface, control unit in dash panel insert, multifunction display, multifunction buttons on left in steering wheel

E440	Multifunction buttons on left in steering wheel
J119	Multifunction display
J285	Control unit in dash panel insert
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
T20d	20-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only models with multifunction steering wheel, see CFD multifunction steering wheel
**	Only models with multifunction display
***	Applicable up to October 2008
****	Applicable from November 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Seat heating

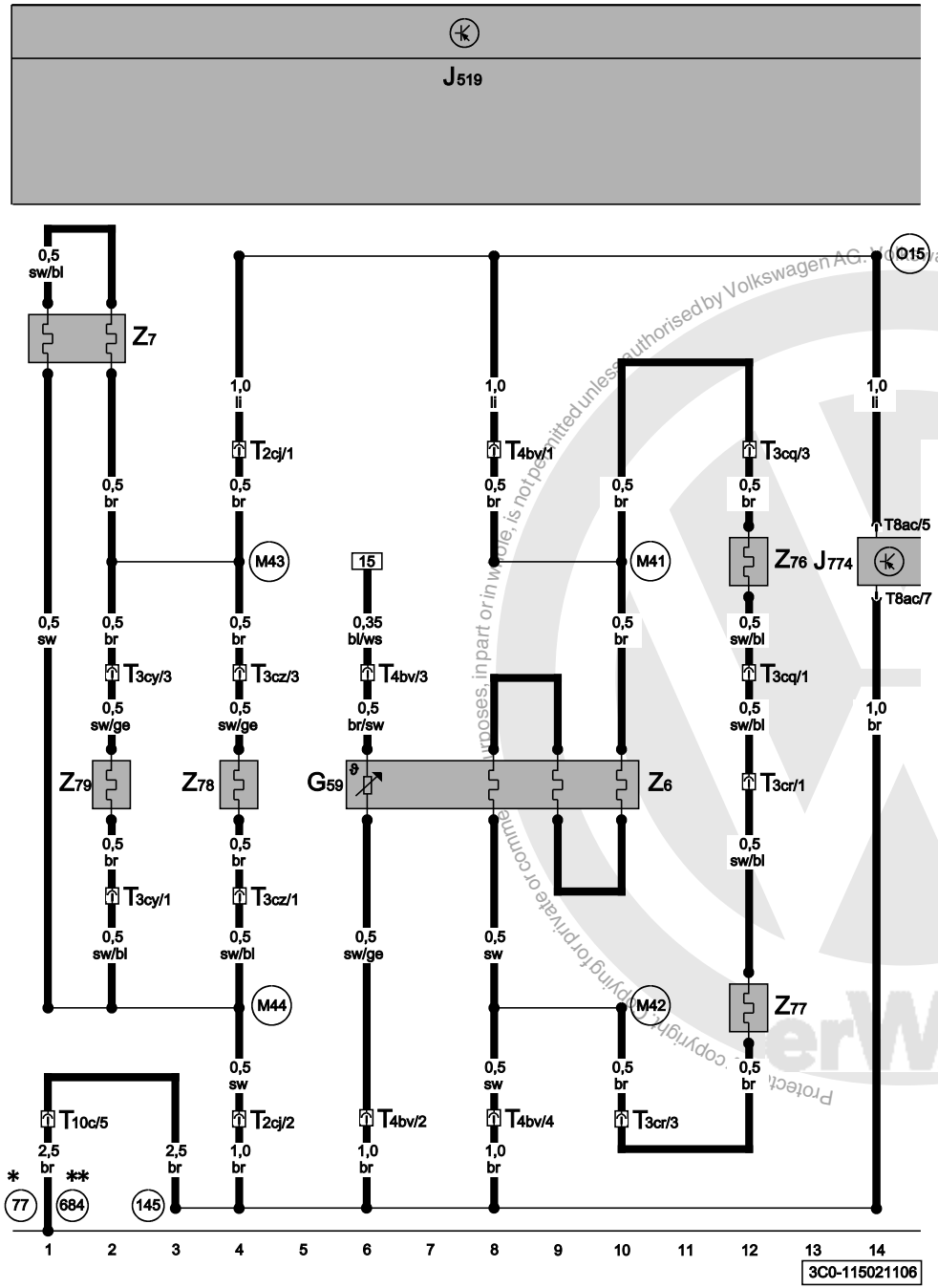
⇒ **Convenience leather seat**
⇒ **With backrest lateral support heater**
⇒ **Without front seats backrest release**
⇒ **Without seat ventilation/ front massage seat**
from November 2004

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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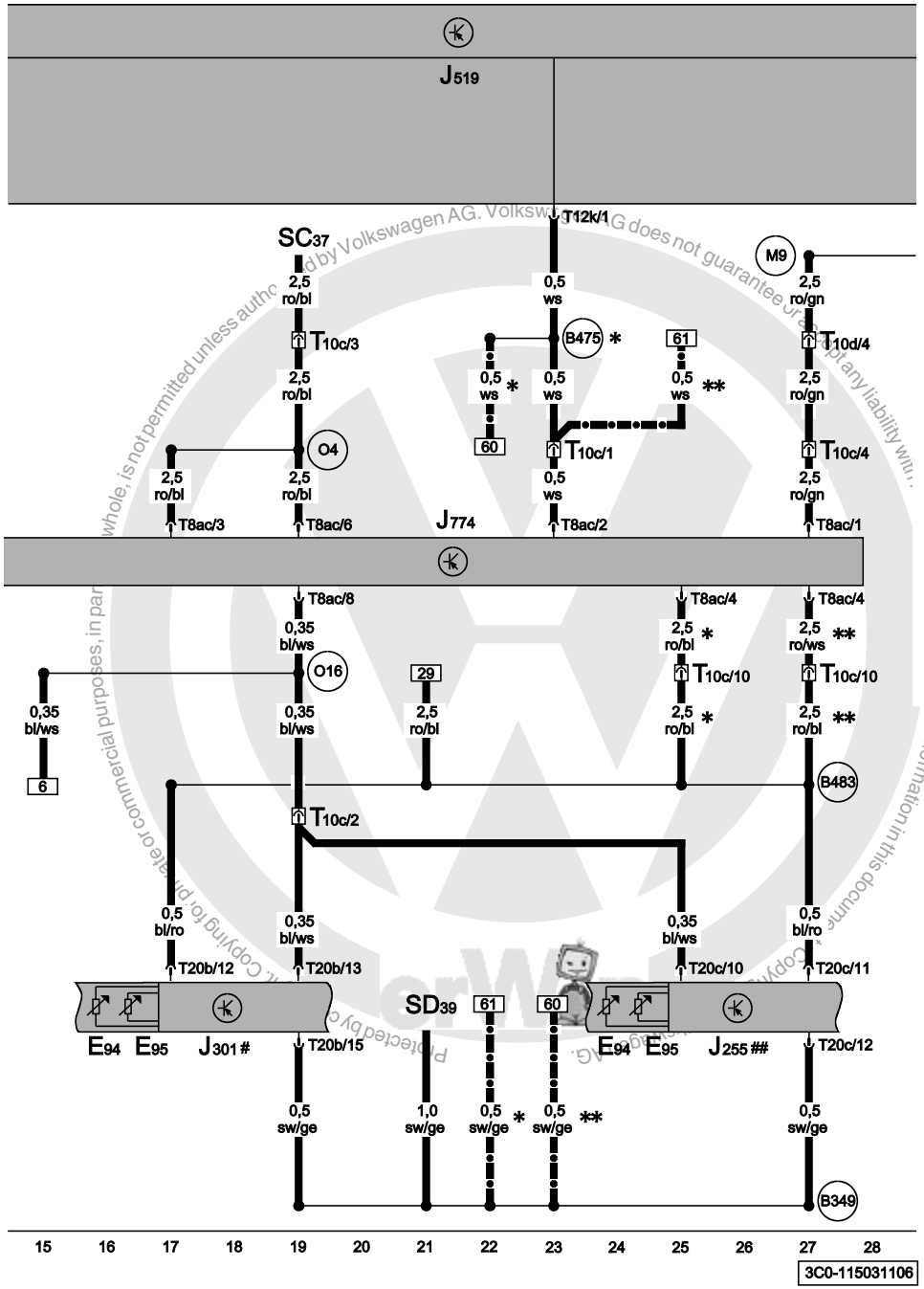


Heated cushion for driver seat, heated backrest for driver seat, lateral support heater

G59	Driver seat temperature sensor
J519	Onboard supply control unit
J774	Heated front seats control unit
T2cj	2-pin connector
T3cq	3-pin connector
T3cr	3-pin connector
T3cy	3-pin connector
T3cz	3-pin connector
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under the seat
Z6	Heated driver seat cushion
Z7	Heated driver seat backrest
Z76	Driver seat left lateral support heater
Z77	Driver seat right lateral support heater
Z78	Driver seat backrest left lateral support heater
Z79	Driver seat backrest right lateral support heater
77	Earth point, lower part of left B-pillar
145	Earth connection 3, in seat heating wiring harness
684	Earth point, on front of left longitudinal member
M41	Connection 1, in driver seat wiring harness
M42	Connection 2, in driver seat wiring harness
M43	Connection 3, in driver seat wiring harness
M44	Connection 4, in driver seat wiring harness
O15	Connection 4, in seat heating wiring harness
*	applicable up to April 2005
**	applicable from May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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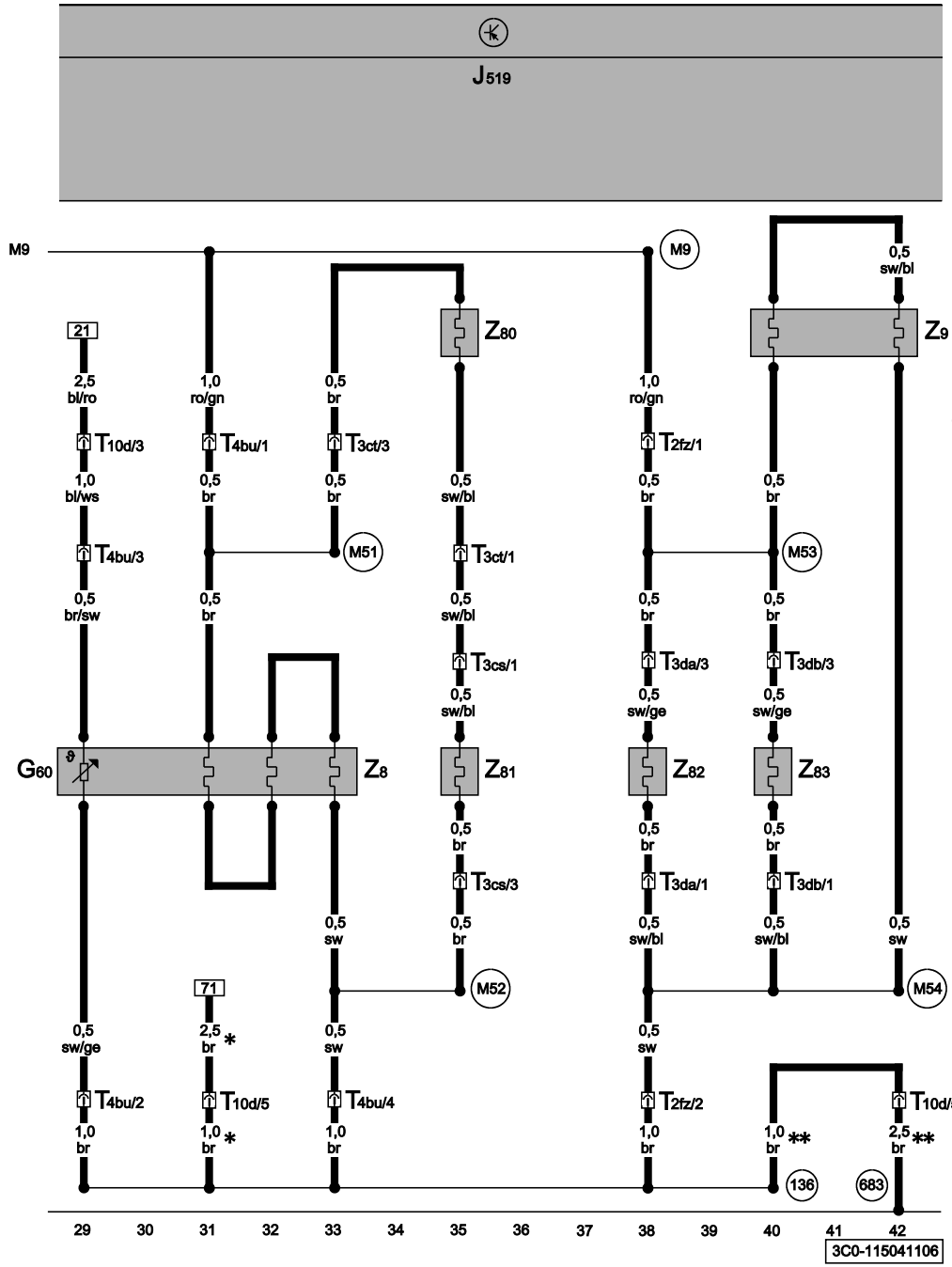
ws = white

Heated front seats control unit, Climatronic control unit, air conditioning system control unit

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
J774	Heated front seats control unit
SC37	Fuse 37 on fuse holder C
SD39	Fuse 39 on fuse holder D
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under the seat
T10d	10-pin connector, black, coupling point front passenger side, under the seat
T12k	12-pin connector
T20b	20-pin connector, black
T20c	20-pin connector, on Climatronic/air conditioning system control unit
B349	Connection 2 (75A), in main wiring harness
B475	Connection 11, in main wiring harness
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness
O4	Positive connection (30as), in seat heating wiring harness
O16	Connection 5, in seat heating wiring harness
*	applicable up to April 2005
**	applicable from May 2005
#	only models with air conditioning system
##	only models with Climatronic
<fo:external-graphic src="/../PDOC/samba/tools/png-convert/out//slp/ft_icons/	only models with rear heated seat

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br	=	brown	content-
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li	=	purple	uniform"/
ge	=	yellow	>
or	=	orange	
rs	=	pink	

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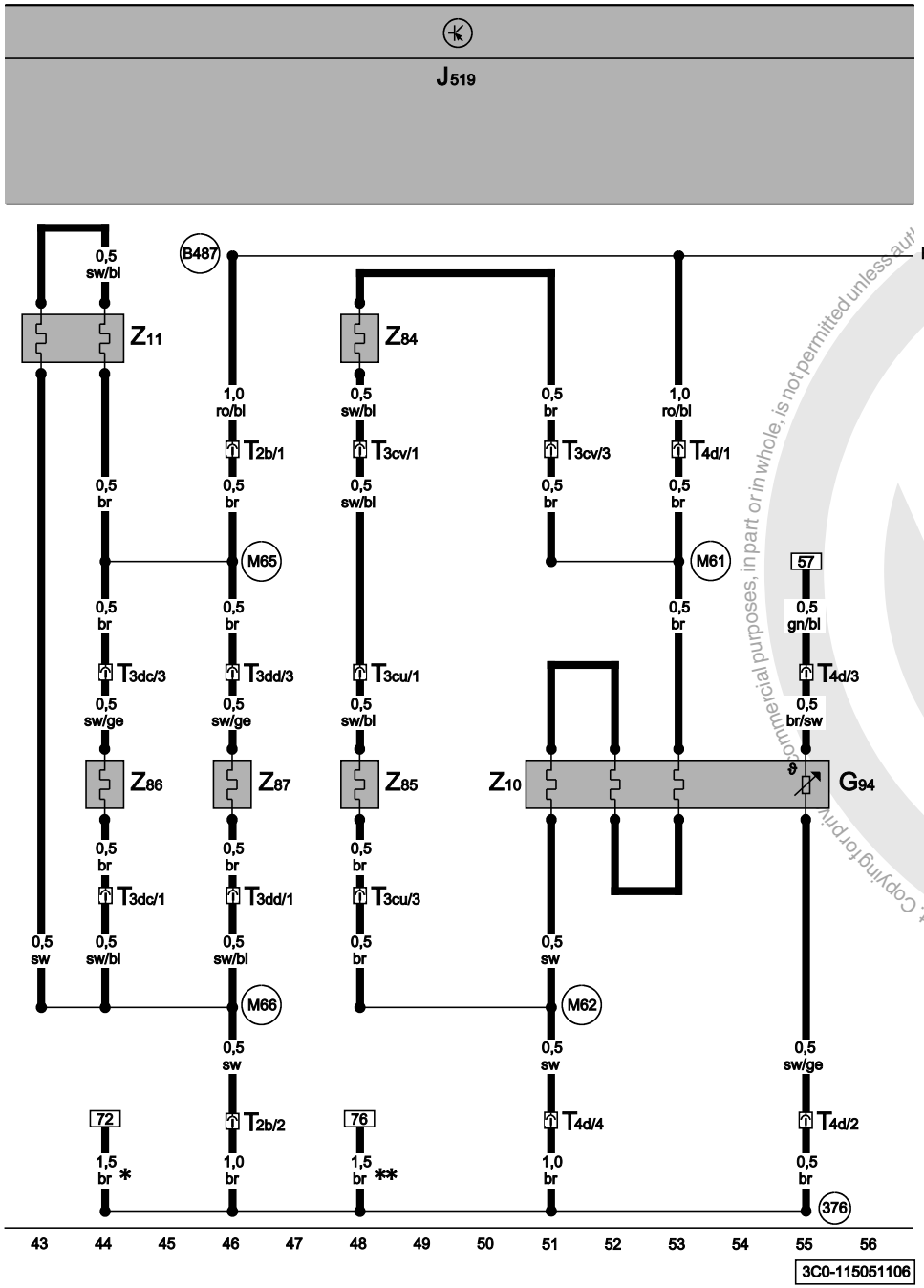


Heated seat cushion for front passenger seat, heated backrest for front passenger seat, lateral support heater

G60	Front passenger seat temperature sensor
J519	Onboard supply control unit
T2fz	2-pin connector
T3cs	3-pin connector
T3ct	3-pin connector
T3da	3-pin connector
T3db	3-pin connector
T4bu	4-pin connector, black, under front passenger seat
T10d	10-pin connector, black, coupling point front passenger side, under the seat
Z8	Heated front passenger seat cushion
Z9	Heated front passenger seat backrest
Z80	Front passenger seat left lateral support heater
Z81	Front passenger seat right lateral support heater
Z82	Front passenger seat backrest left lateral support heater
Z83	Front passenger seat backrest right lateral support heater
136	Earth connection 2, in seat heating wiring harness
683	Earth point, on front of right longitudinal member
M9	Connection, in seat adjustment wiring harness
M51	Connection 1, in front passenger seat wiring harness
M52	Connection 2, in front passenger seat wiring harness
M53	Connection 3, in front passenger seat wiring harness
M54	Connection 4, in front passenger seat wiring harness
*	applicable up to April 2005
**	applicable from May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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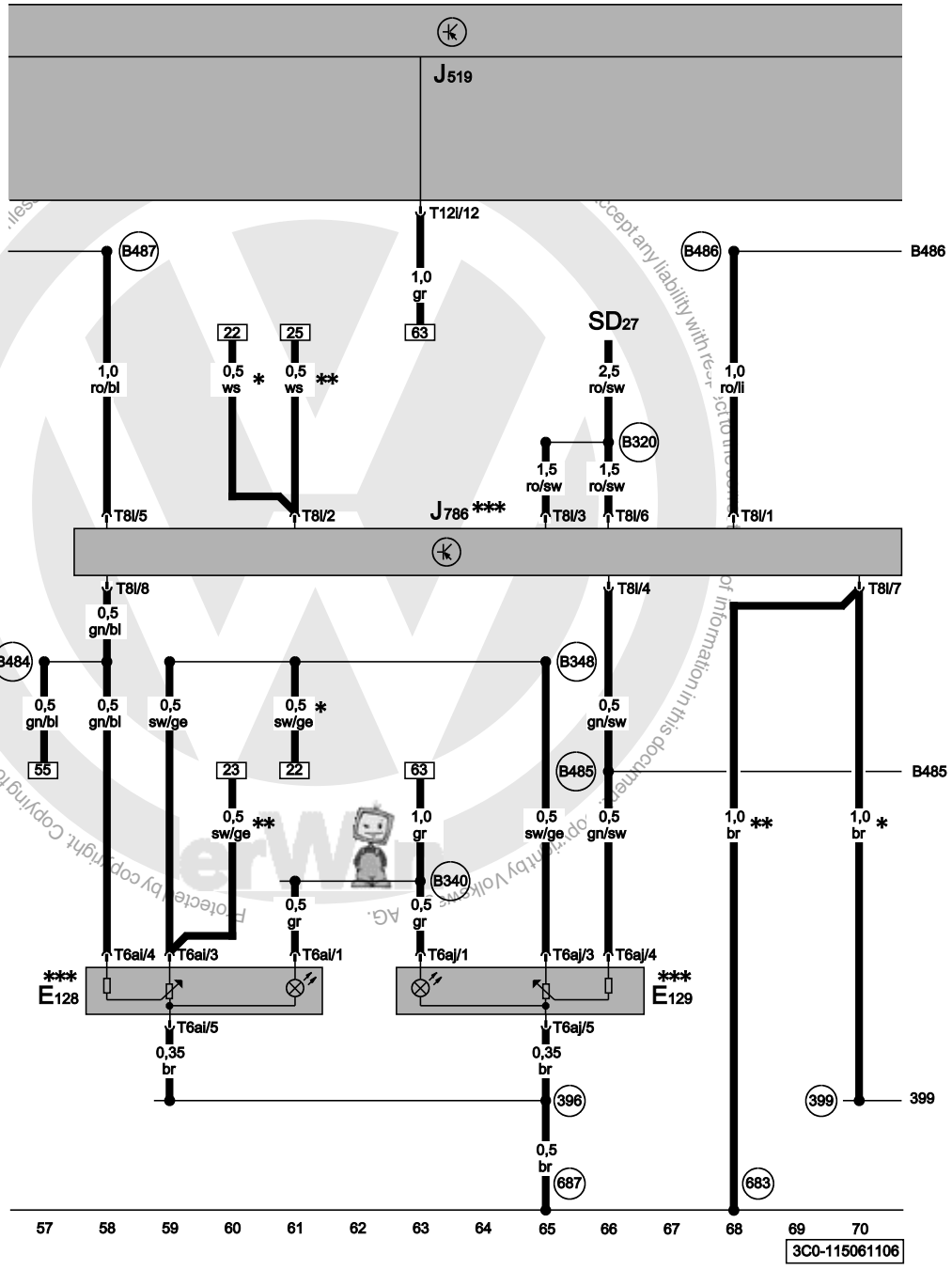


Heated rear left seat, heated backrest for rear left seat, lateral support heater

G94	Rear left seat temperature sensor
J519	Onboard supply control unit
T2b	2-pin connector
T3cu	3-pin connector
T3cv	3-pin connector
T3dc	3-pin connector
T3dd	3-pin connector
T4d	4-pin connector, black, undern left of rear seat
Z10	Heated rear left seat
Z11	Heated rear left seat backrest
Z84	Driver side rear seat left lateral support heater
Z85	Driver side rear seat right lateral support heater
Z86	Driver side rear seat left backrest lateral support heater
Z87	Driver side rear seat right backrest lateral support heater
376	Earth connection 11, in main wiring harness
B487	Connection 23, in main wiring harness
M61	Connection 1, in rear seat wiring harness
M62	Connection 2, in rear seat wiring harness
M65	Connection 5, in rear seat wiring harness
M66	Connection 6, in rear seat wiring harness
*	applicable up to April 2005
**	applicable from May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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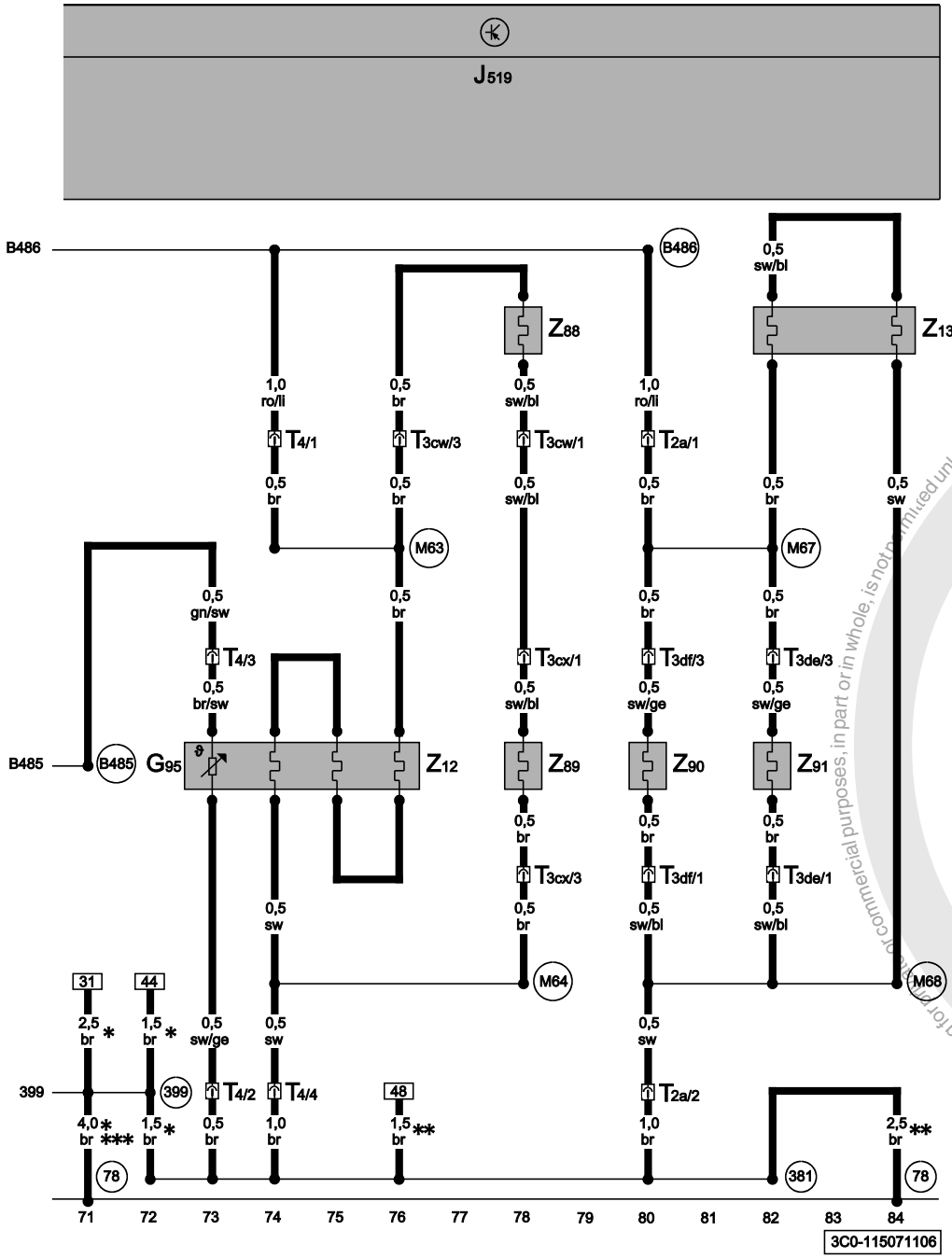
Heated backrest control unit, heated rear seat switch with regulator

E128	Heated rear left seat switch with regulator
E129	Heated rear right seat switch with regulator
J519	Onboard supply control unit
J786	Heated backrest control unit
SD27	Fuse 27 on fuse holder D
T6ai	6-pin connector
T6aj	6-pin connector
T8l	8-pin connector
T12i	12-pin connector
396	Earth connection 31, in main wiring harness
399	Earth connection 34, in main wiring harness
683	Earth point, on front of right longitudinal member
687	Earth point 1, on centre tunnel
B320	Positive connection 6 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
B484	Connection 20, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
B487	Connection 23, in main wiring harness

*	applicable up to April 2005
**	applicable from May 2005
***	only models with rear heated seat

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Heated rear right seat, heated backrest for rear right seat, lateral support heater

G95	Rear right seat temperature sensor
J519	Onboard supply control unit
T2a	2-pin connector
T3cw	3-pin connector
T3cx	3-pin connector
T3de	3-pin connector
T3df	3-pin connector
T4	4-pin connector, black, undern right of rear seat
Z12	Heated rear right seat
Z13	Heated rear right seat backrest
Z88	Front passenger side rear seat left lateral support heater
Z89	Front passenger side rear seat right lateral support heater
Z90	Front passenger side rear seat left backrest lateral support heater
Z91	Front passenger side rear seat right backrest lateral support heater
78	Earth point, lower part of right B-pillar
381	Earth connection 16, in main wiring harness
399	Earth connection 34, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
M63	Connection 3, in rear seat wiring harness
M64	Connection 4, in rear seat wiring harness
M67	Connection 7, in rear seat wiring harness
M68	Connection 8, in rear seat wiring harness

*	applicable up to April 2005
**	applicable from May 2005
***	cross section are equipment dependant

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Seat heating

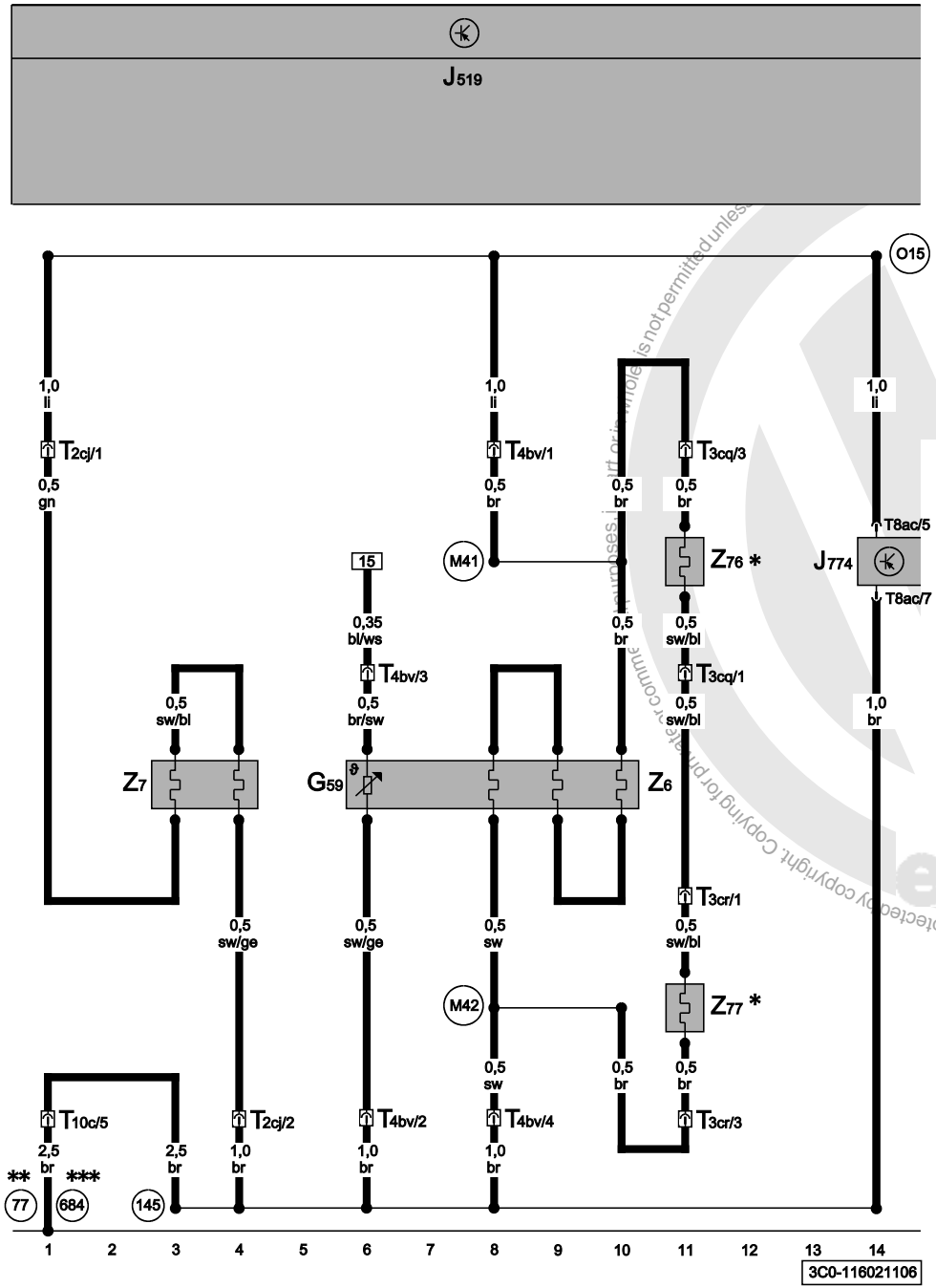
⇒ **Convenience seat with loth cover**
⇒ **Convenience leather seat, without backrest lateral support heater**
from November 2004

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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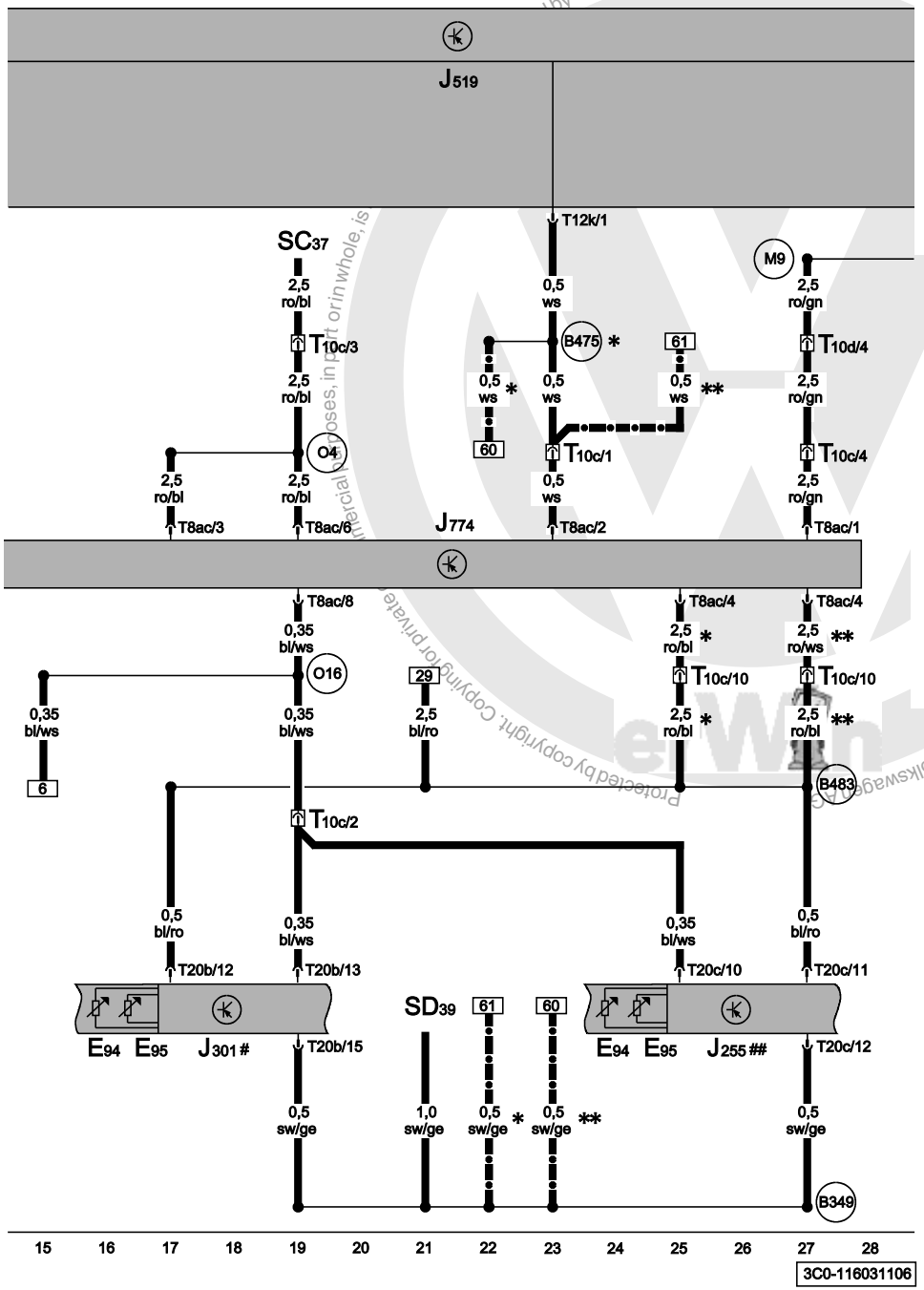


Heated cushion for driver seat, heated backrest for driver seat, lateral support heater

G59	Driver seat temperature sensor
J519	Onboard supply control unit
J774	Heated front seats control unit
T2cj	2-pin connector
T3cq	3-pin connector
T3cr	3-pin connector
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under the seat
Z6	Heated driver seat cushion
Z7	Heated driver seat backrest
Z76	Driver seat left lateral support heater
Z77	Driver seat right lateral support heater
77	Earth point, lower part of left B-pillar
145	Earth connection 3, in seat heating wiring harness
684	Earth point, on front of left longitudinal member
M41	Connection 1, in driver seat wiring harness
M42	Connection 2, in driver seat wiring harness
O15	Connection 4, in seat heating wiring harness
*	depends on equipment
**	applicable up to April 2005
***	applicable from May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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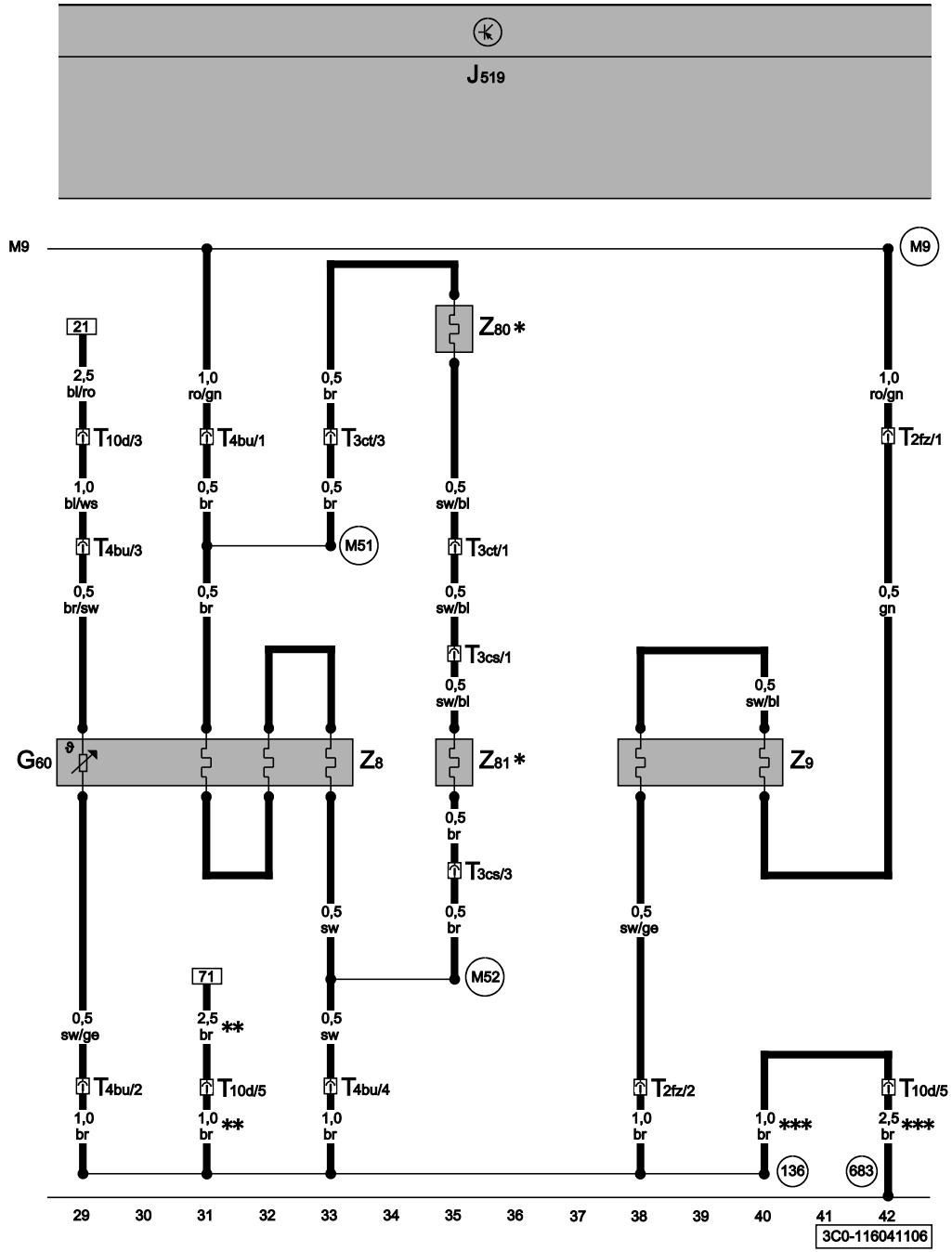
ws = white

Heated front seats control unit, Climatronic control unit, air conditioning system control unit

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
J774	Heated front seats control unit
SC37	Fuse 37 on fuse holder C
SD39	Fuse 39 on fuse holder D
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under the seat
T10d	10-pin connector, black, coupling point front passenger side, under the seat
T12k	12-pin connector
T20b	20-pin connector, black
T20c	20-pin connector, on Climatronic/air conditioning system control unit
B349	Connection 2 (75A), in main wiring harness
B475	Connection 11, in main wiring harness
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness
O4	Positive connection (30as), in seat heating wiring harness
O16	Connection 5, in seat heating wiring harness
*	applicable up to April 2005
**	applicable from May 2005
#	only models with air conditioning system
##	only models with Climatronic
<fo:external-graphic src="/../PDOC/samba/tools/png-convert/out//slp/ft_icons/	only models with rear heated seat

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gn	=	green	width="2
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ge	=	yellow	>
or	=	orange	
rs	=	pink	

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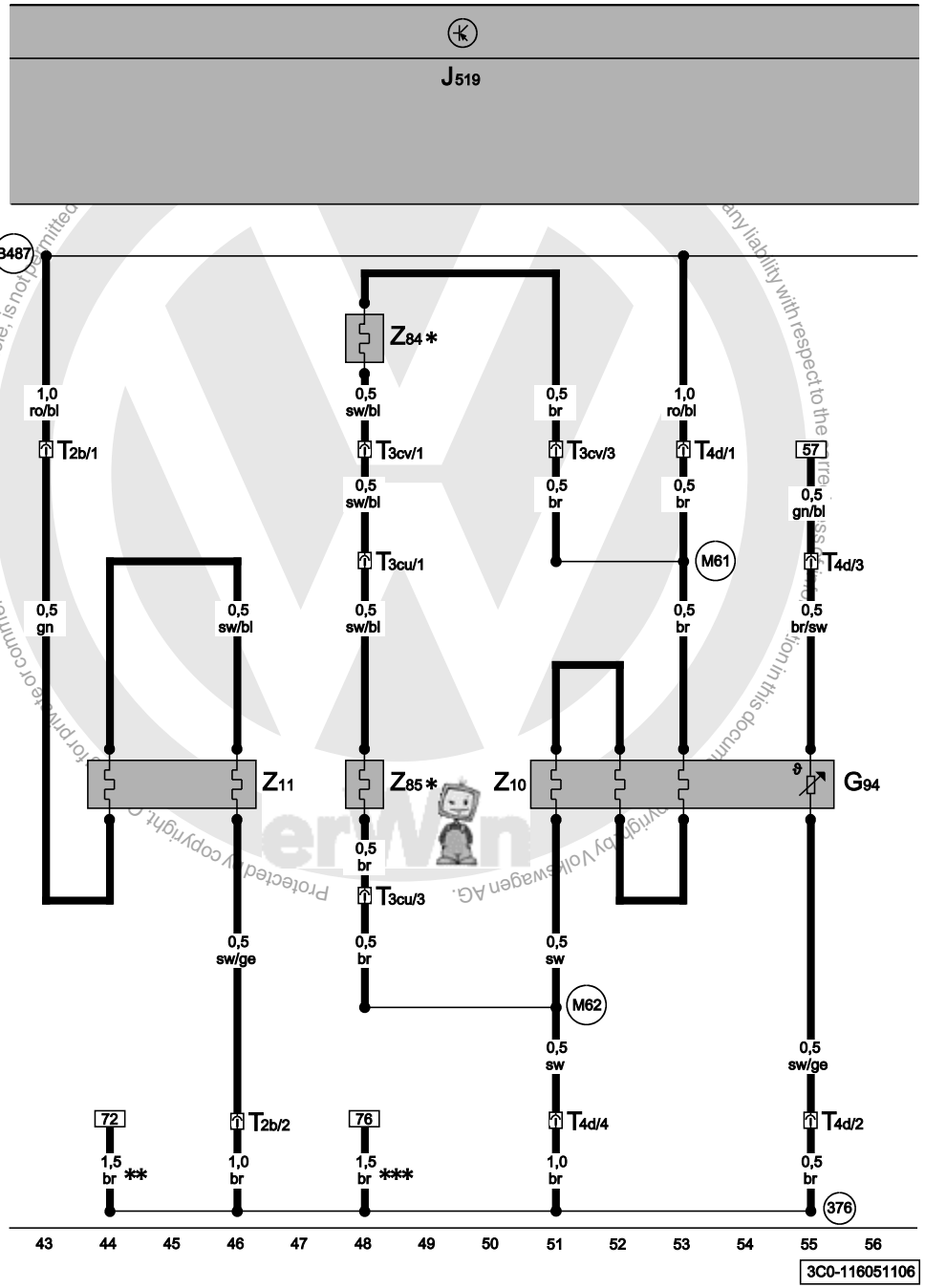


Heated seat cushion for front passenger seat, heated backrest for front passenger seat, lateral support heater

G60	Front passenger seat temperature sensor
J519	Onboard supply control unit
T2fz	2-pin connector
T3cs	3-pin connector
T3ct	3-pin connector
T4bu	4-pin connector, black, under front passenger seat
T10d	10-pin connector, black, coupling point front passenger side, under the seat
Z8	Heated front passenger seat cushion
Z9	Heated front passenger seat backrest
Z80	Front passenger seat left lateral support heater
Z81	Front passenger seat right lateral support heater
136	Earth connection 2, in seat heating wiring harness
683	Earth point, on front of right longitudinal member
M9	Connection, in seat adjustment wiring harness
M51	Connection 1, in front passenger seat wiring harness
M52	Connection 2, in front passenger seat wiring harness
*	depends on equipment
**	applicable up to April 2005
***	applicable from May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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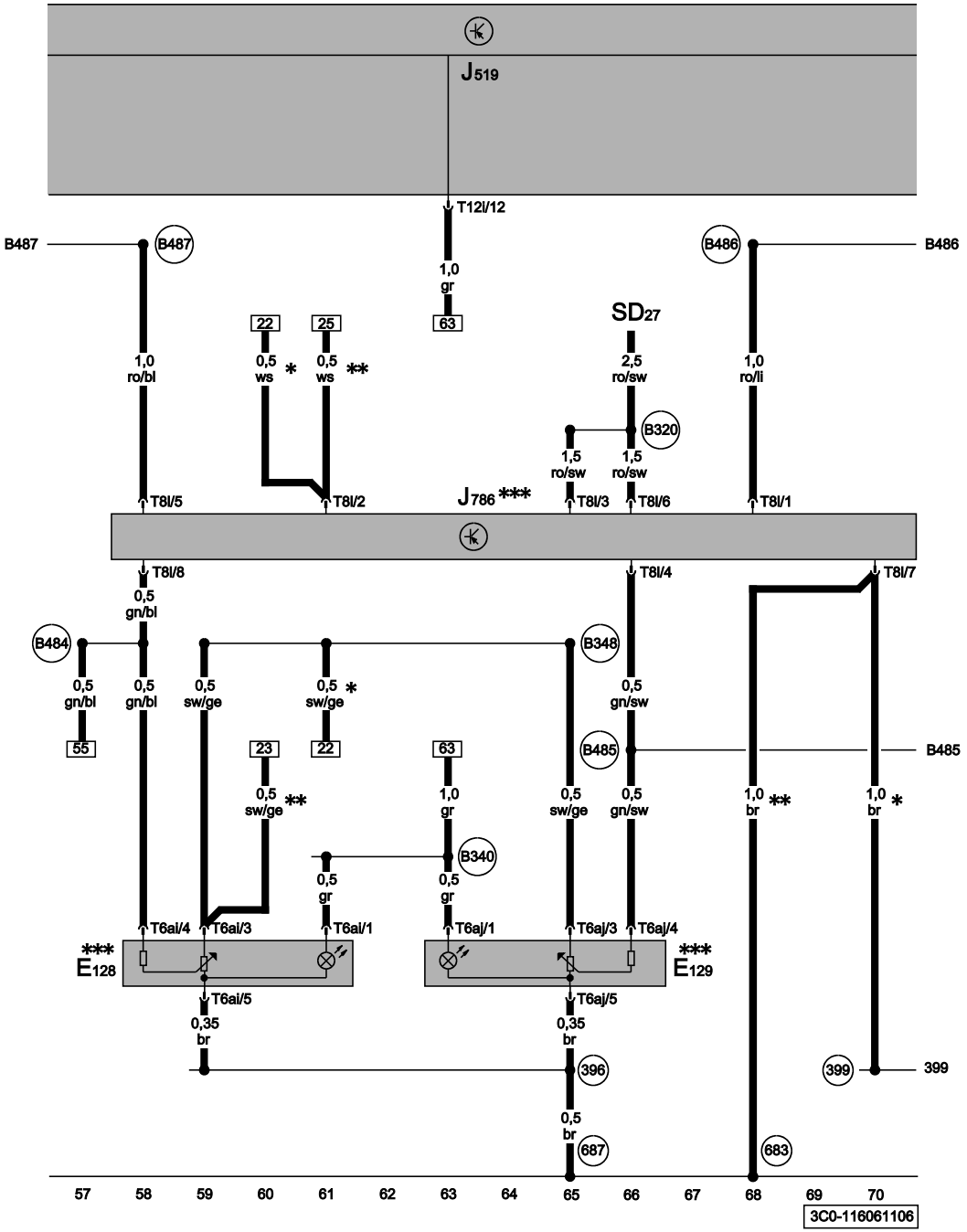


Heated rear left seat, heated backrest for rear left seat, lateral support heater

G94	Rear left seat temperature sensor
J519	Onboard supply control unit
T2b	2-pin connector
T3cu	3-pin connector
T3cv	3-pin connector
T4d	4-pin connector, black, undern left of rear seat
Z10	Heated rear left seat
Z11	Heated rear left seat backrest
Z84	Driver side rear seat left lateral support heater
Z85	Driver side rear seat right lateral support heater
376	Earth connection 11, in main wiring harness
B487	Connection 23, in main wiring harness
M61	Connection 1, in rear seat wiring harness
M62	Connection 2, in rear seat wiring harness
*	depends on equipment
**	applicable up to April 2005
***	applicable from May 2005

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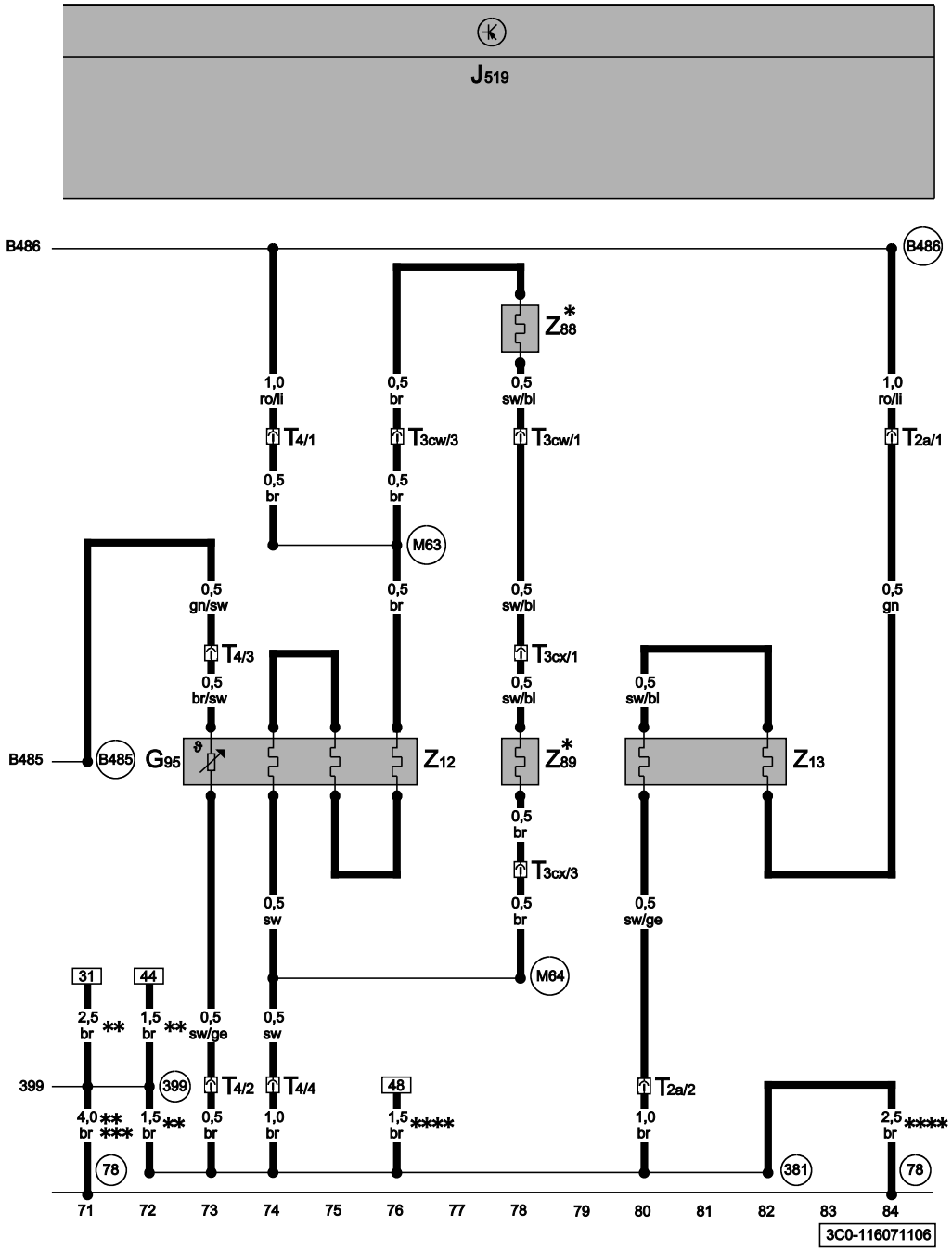
Heated backrest control unit, heated rear seat switch with regulator

E128	Heated rear left seat switch with regulator
E129	Heated rear right seat switch with regulator
J519	Onboard supply control unit
J786	Heated backrest control unit
SD27	Fuse 27 on fuse holder D
T6ai	6-pin connector
T6aj	6-pin connector
T8l	8-pin connector
T12i	12-pin connector
396	Earth connection 31, in main wiring harness
399	Earth connection 34, in main wiring harness
683	Earth point, on front of right longitudinal member
687	Earth point 1, on centre tunnel
B320	Positive connection 6 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
B484	Connection 20, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
B487	Connection 23, in main wiring harness

*	applicable up to April 2005
**	applicable from May 2005
***	only models with rear heated seat

ws	=	white
sw	=	black
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bl	=	blue
gr	=	grey
li	=	purple
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Heated rear right seat, heated backrest for rear right seat, lateral support heater

G95	Rear right seat temperature sensor
J519	Onboard supply control unit
T2a	2-pin connector
T3cw	3-pin connector
T3cx	3-pin connector
T4	4-pin connector, black, undern right of rear seat
Z12	Heated rear right seat
Z13	Heated rear right seat backrest
Z88	Front passenger side rear seat left lateral support heater
Z89	Front passenger side rear seat right lateral support heater
78	Earth point, lower part of right B-pillar
381	Earth connection 16, in main wiring harness
399	Earth connection 34, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
M63	Connection 3, in rear seat wiring harness
M64	Connection 4, in rear seat wiring harness
*	depends on equipment
**	applicable up to April 2005
***	cross section are equipment dependant
****	applicable from May 2005

ws	=	white
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or	=	orange
rs	=	pink

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Seat heating

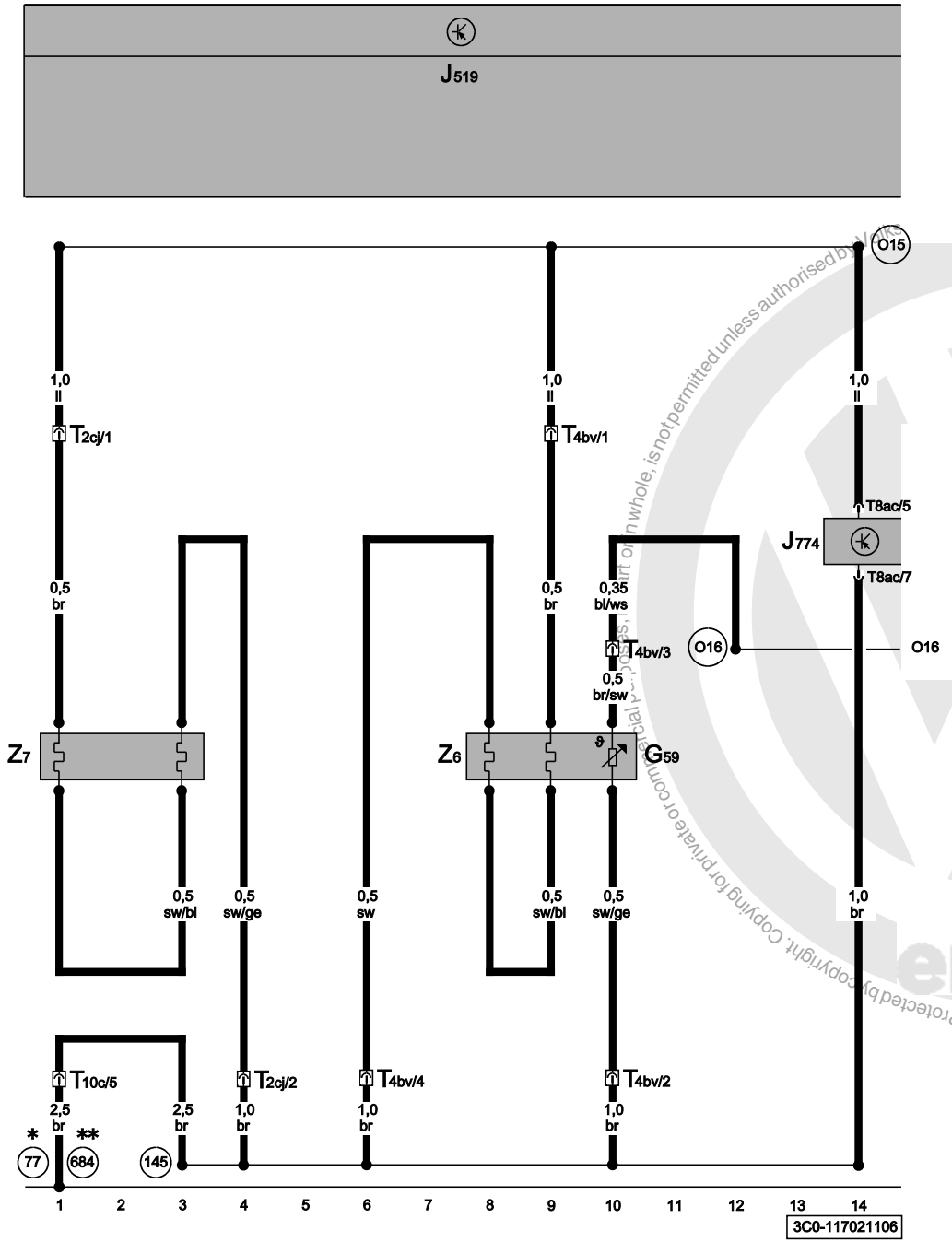
⇒ **Seat Trendline**
from November 2004

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ guided fault finding

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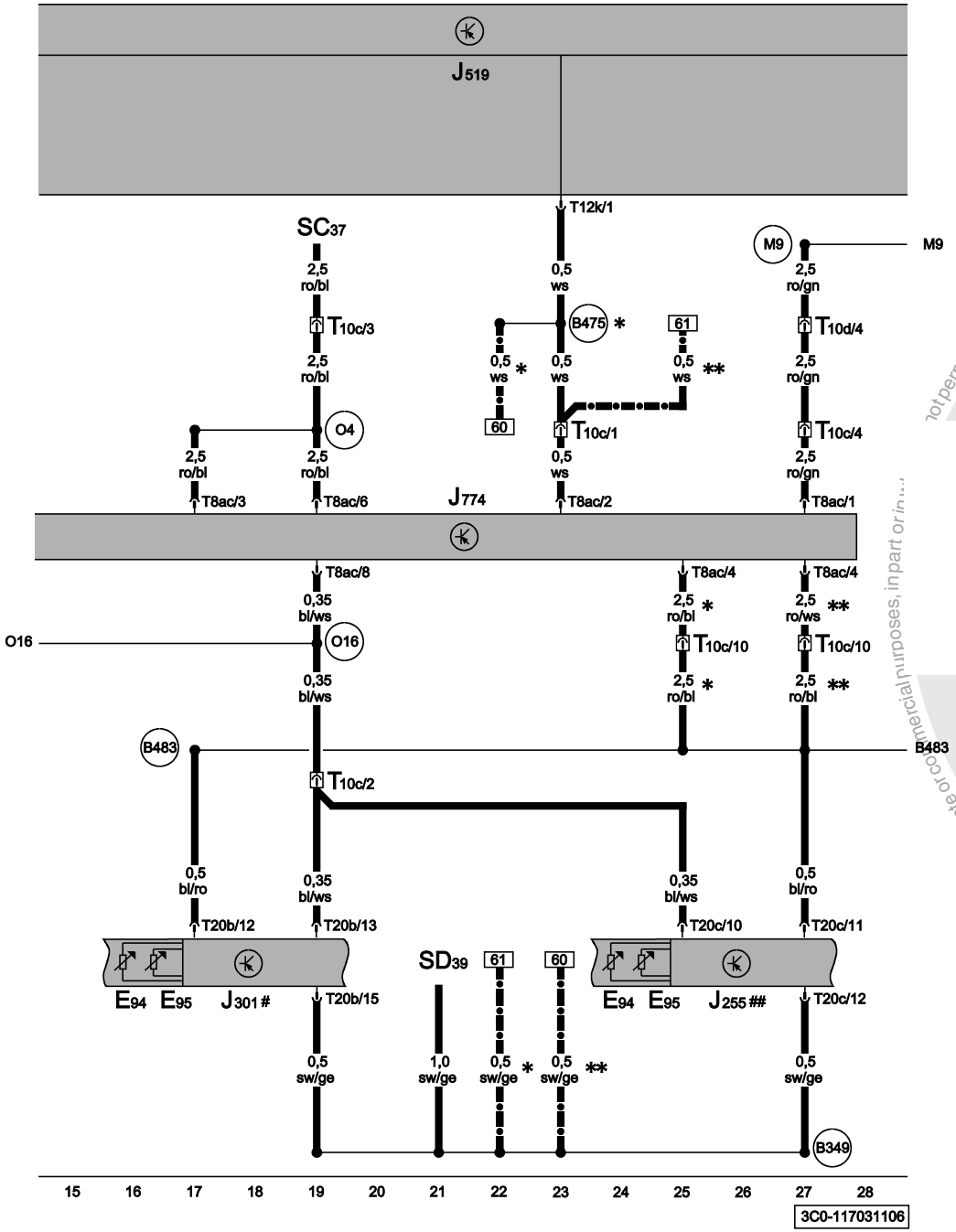


Heated cushion for driver seat, heated backrest for driver seat

G59	Driver seat temperature sensor
J519	Onboard supply control unit
J774	Heated front seats control unit
T2cj	2-pin connector
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under the seat
Z6	Heated driver seat cushion
Z7	Heated driver seat backrest
77	Earth point, lower part of left B-pillar
145	Earth connection 3, in seat heating wiring harness
684	Earth point, on front of left longitudinal member
O15	Connection 4, in seat heating wiring harness
O16	Connection 5, in seat heating wiring harness
*	applicable up to April 2005
**	applicable from May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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Heated front seats control unit, Climatronic control unit, air conditioning system control unit

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
J774	Heated front seats control unit
SC37	Fuse 37 on fuse holder C
SD39	Fuse 39 on fuse holder D
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under the seat
T10d	10-pin connector, black, coupling point front passenger side, under the seat
T12k	12-pin connector
T20b	20-pin connector, black
T20c	20-pin connector, on Climatronic/air conditioning system control unit
B349	Connection 2 (75A), in main wiring harness
B475	Connection 11, in main wiring harness
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness
O4	Positive connection (30as), in seat heating wiring harness
O16	Connection 5, in seat heating wiring harness
*	applicable up to April 2005
**	applicable from May 2005
#	only models with air conditioning system
##	only models with Climatronic
<fo:exter	only models with rear heated seat
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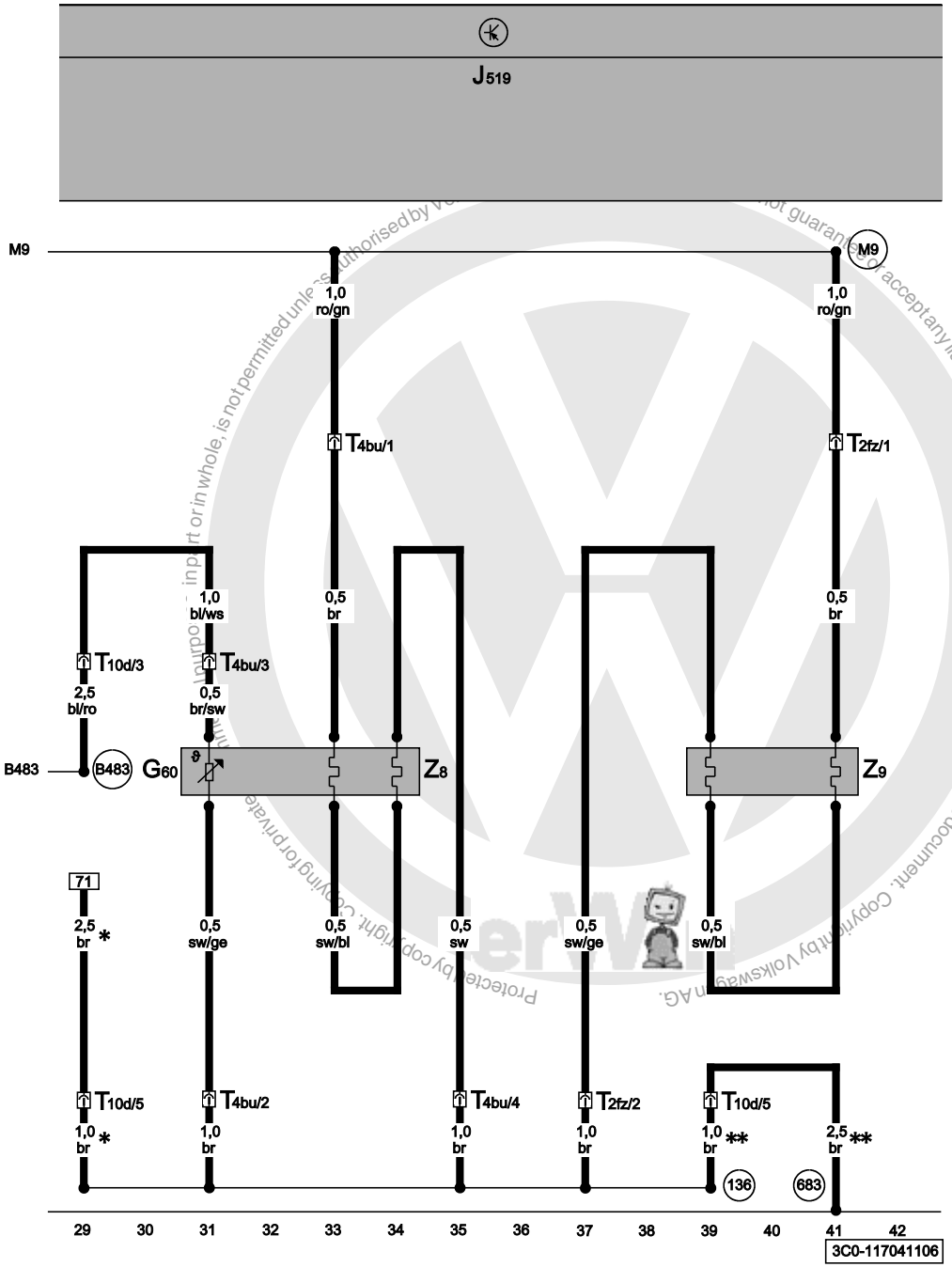
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gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
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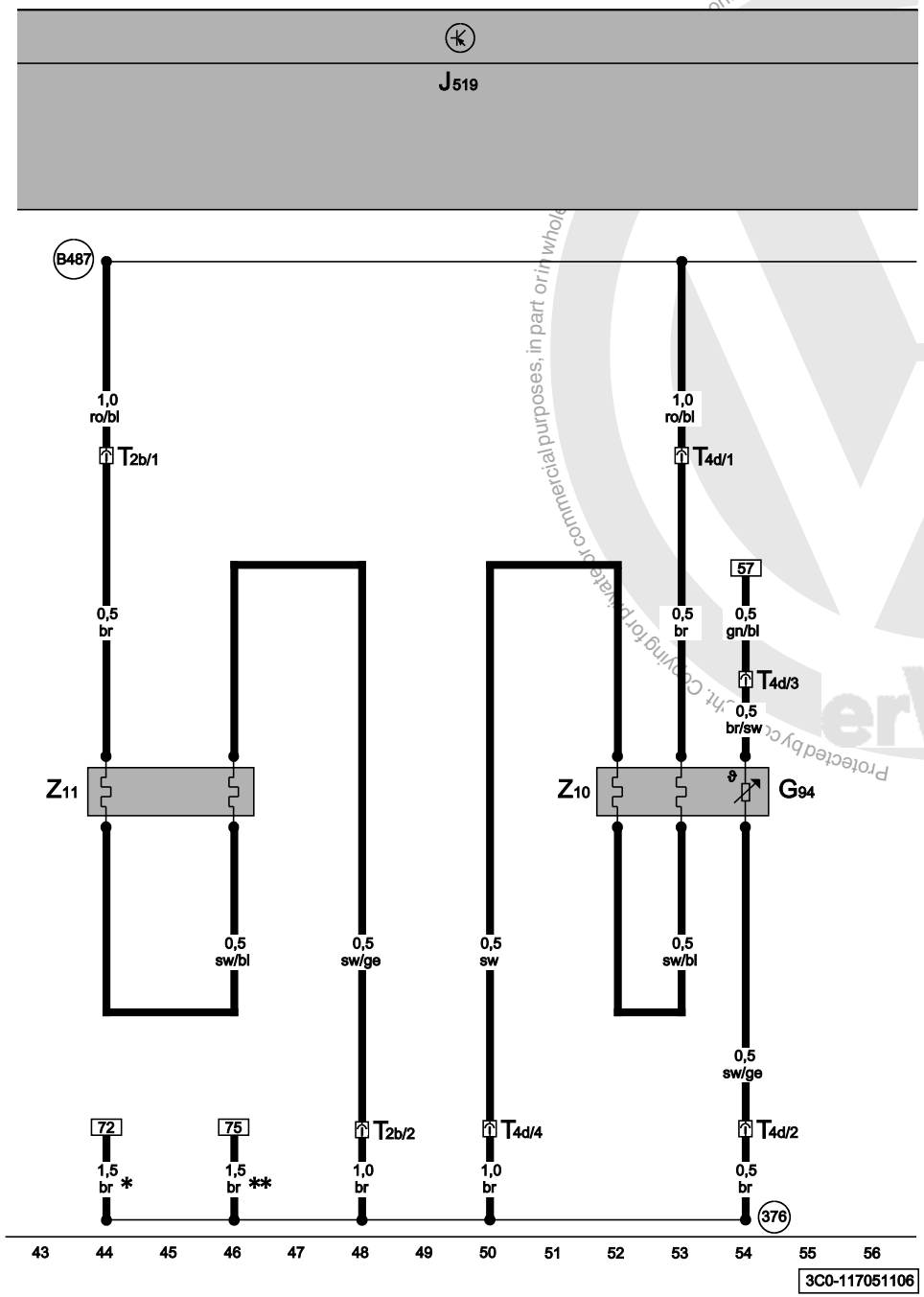


Heated seat cushion for front passenger seat, heated backrest for front passenger seat

G60	Front passenger seat temperature sensor
J519	Onboard supply control unit
T2fz	2-pin connector
T4bu	4-pin connector, black, under front passenger seat
T10d	10-pin connector, black, coupling point front passenger side, under the seat
Z8	Heated front passenger seat cushion
Z9	Heated front passenger seat backrest
136	Earth connection 2, in seat heating wiring harness
683	Earth point, on front of right longitudinal member
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness
*	applicable up to April 2005
**	applicable from May 2005

ws	=	white
sw	=	black
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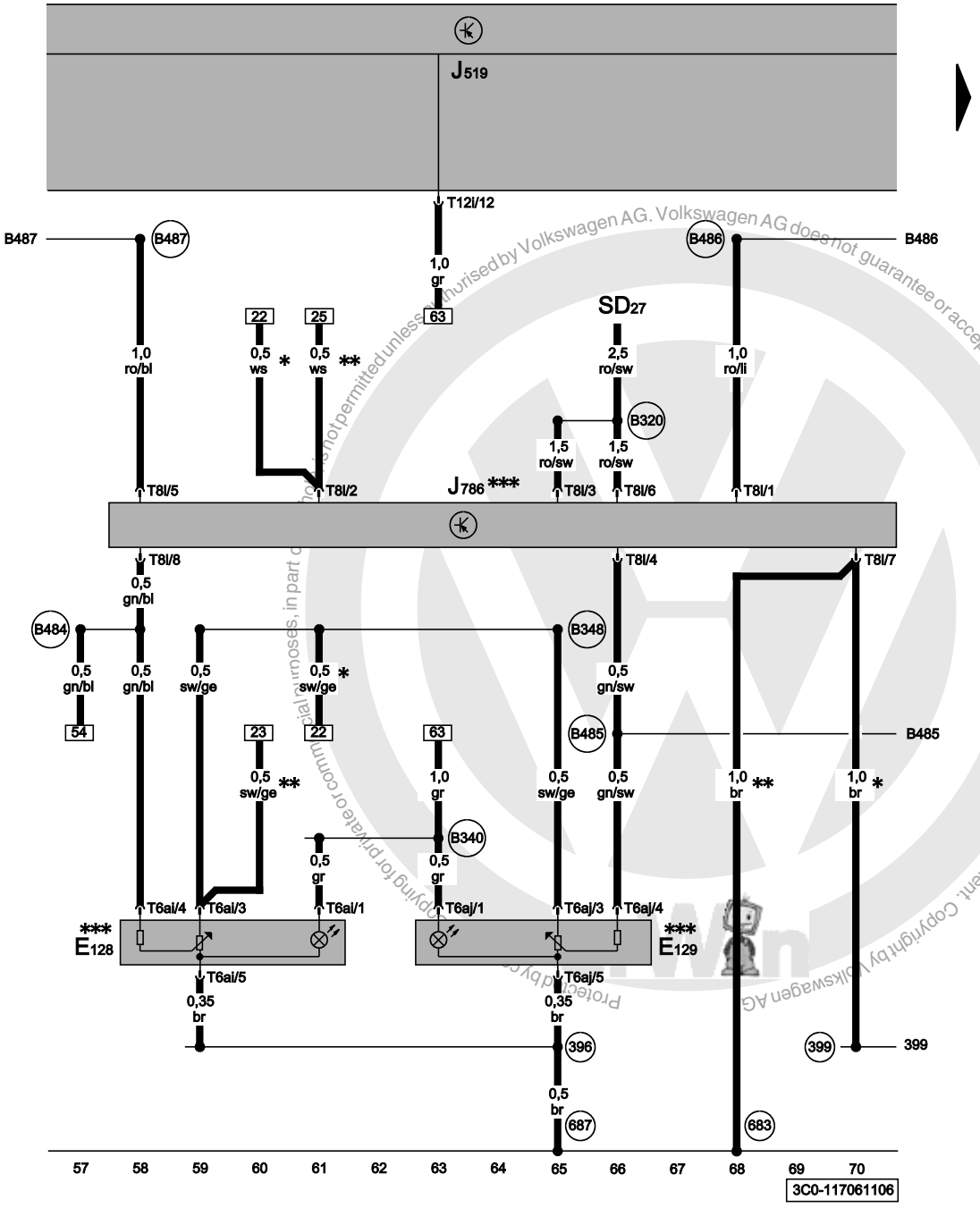


Heated rear left seat, heated backrest for rear left seat

G94	Rear left seat temperature sensor
J519	Onboard supply control unit
T2b	2-pin connector
T4d	4-pin connector, black, undern left of rear seat
Z10	Heated rear left seat
Z11	Heated rear left seat backrest
(376)	Earth connection 11, in main wiring harness
(B487)	Connection 23, in main wiring harness
*	applicable up to April 2005
**	applicable from May 2005

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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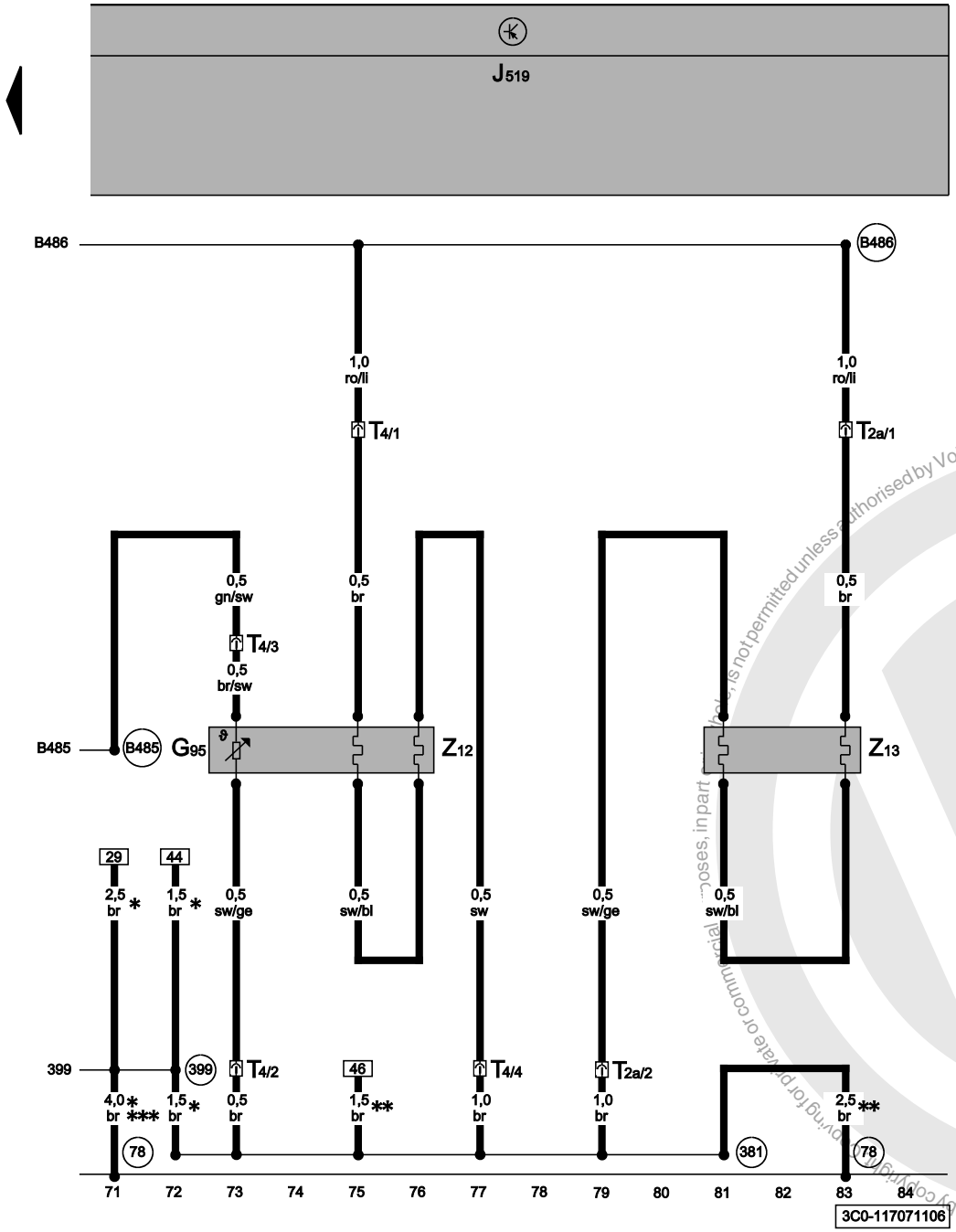
ws = white
sw = black
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br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Heated backrest control unit, heated rear seat switch with regulator

E128	Heated rear left seat switch with regulator
E129	Heated rear right seat switch with regulator
J519	Onboard supply control unit
J786	Heated backrest control unit
SD27	Fuse 27 on fuse holder D
T6ai	6-pin connector
T6aj	6-pin connector
T8l	8-pin connector
T12i	12-pin connector
396	Earth connection 31, in main wiring harness
399	Earth connection 34, in main wiring harness
683	Earth point, on front of right longitudinal member
687	Earth point 1, on centre tunnel
B320	Positive connection 6 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
B484	Connection 20, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
B487	Connection 23, in main wiring harness

* applicable up to April 2005
** applicable from May 2005
*** only models with rear heated seat

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Heated rear right seat, heated backrest for rear right seat

G95	Rear right seat temperature sensor
J519	Onboard supply control unit
T2a	2-pin connector
T4	4-pin connector, black, undern right of rear seat
Z12	Heated rear right seat
Z13	Heated rear right seat backrest
78	Earth point, lower part of right B-pillar
381	Earth connection 16, in main wiring harness
399	Earth connection 34, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
*	applicable up to April 2005
**	applicable from May 2005
***	cross section are equipment dependant

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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rs	=	pink

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Seat heating

⇒ **Sport seat**

from November 2004

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

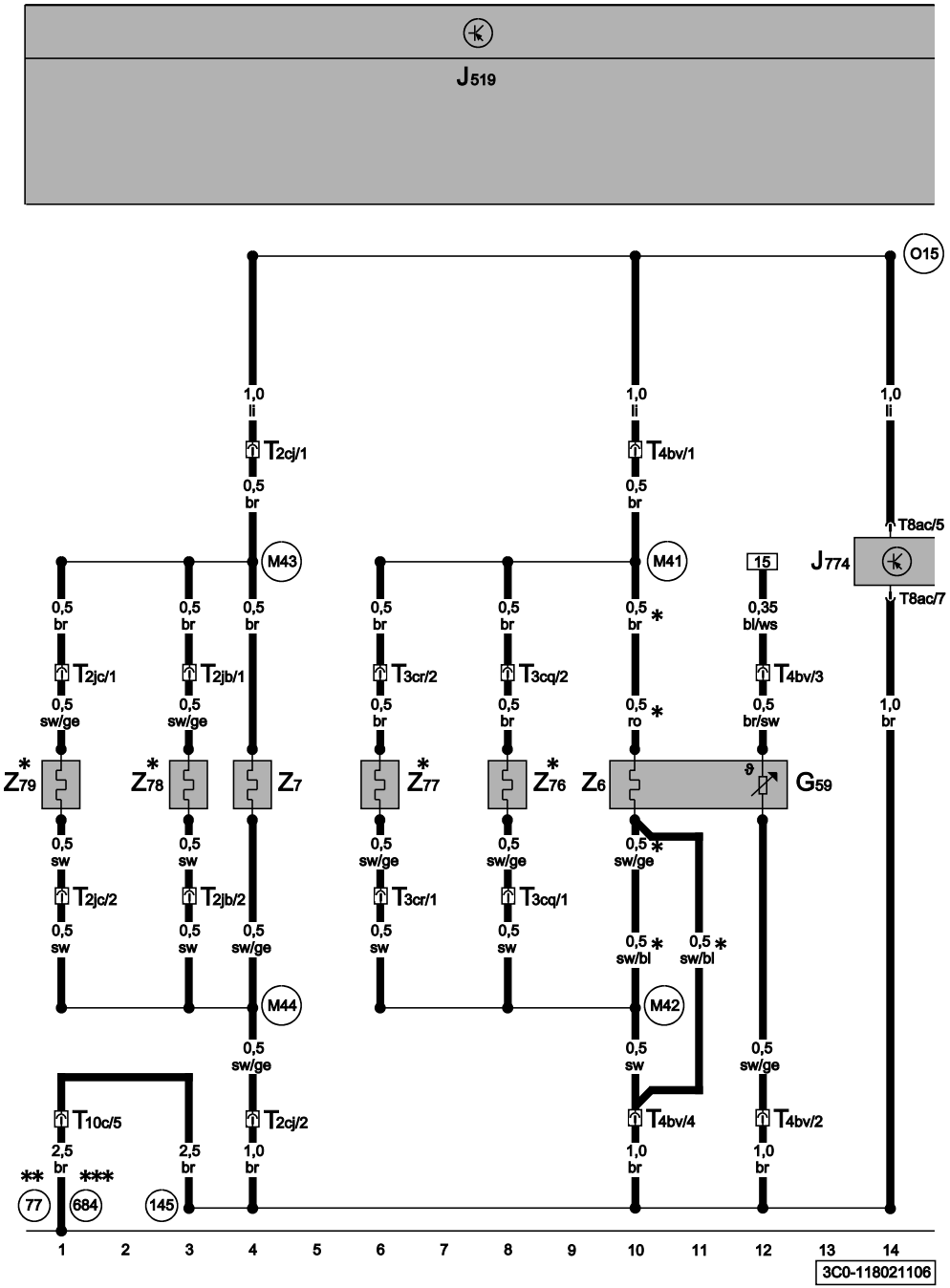
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ guided fault finding

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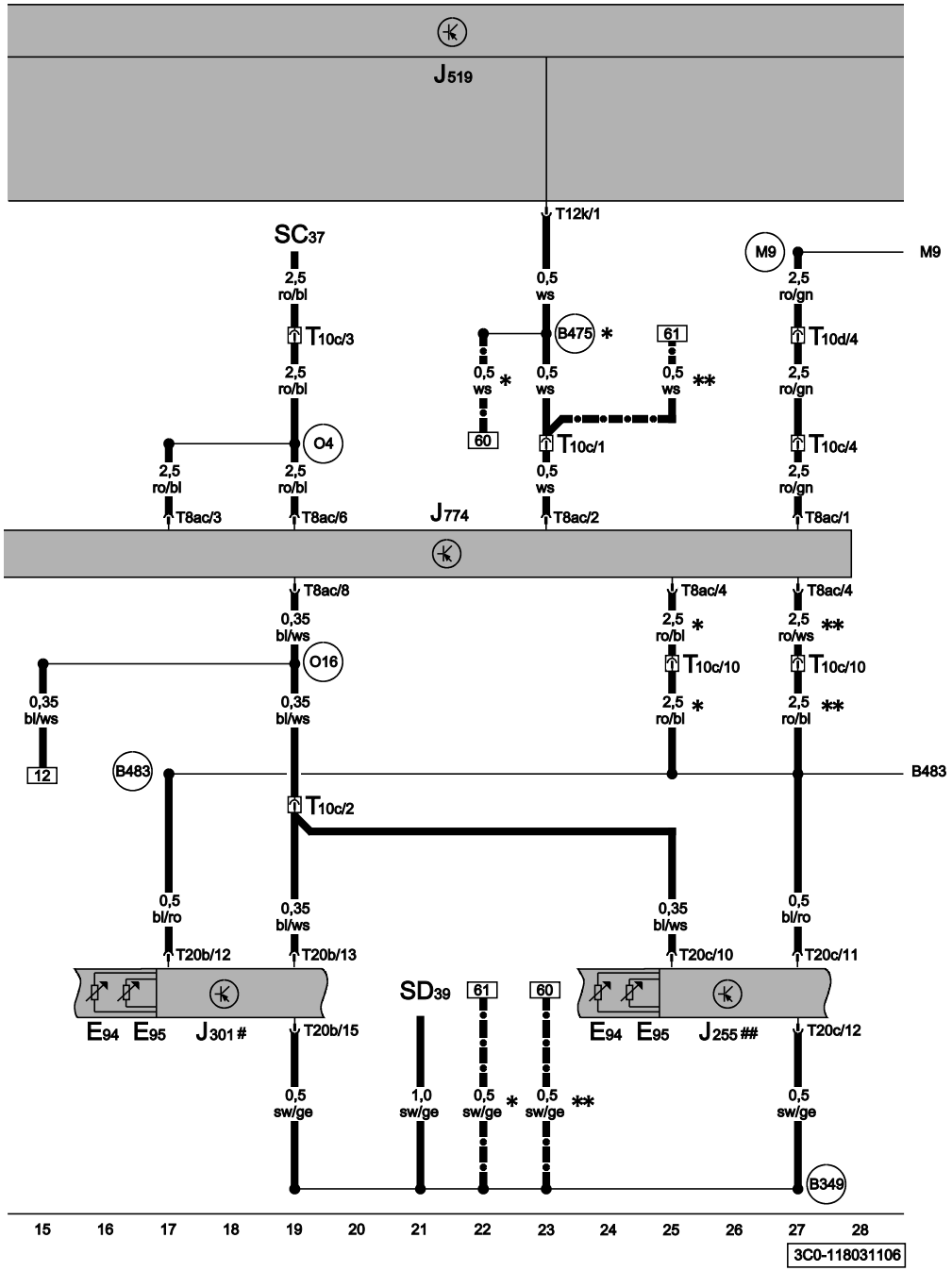


Heated cushion for driver seat, heated backrest for driver seat, lateral support heater

G59	Driver seat temperature sensor
J519	Onboard supply control unit
J774	Heated front seats control unit
T2cj	2-pin connector
T2jb	2-pin connector
T2jc	2-pin connector
T3cq	3-pin connector
T3cr	3-pin connector
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under the seat
Z6	Heated driver seat cushion
Z7	Heated driver seat backrest
Z76	Driver seat left lateral support heater
Z77	Driver seat right lateral support heater
Z78	Driver seat backrest left lateral support heater
Z79	Driver seat backrest right lateral support heater
77	Earth point, lower part of left B-pillar
145	Earth connection 3, in seat heating wiring harness
684	Earth point, on front of left longitudinal member
M41	Connection 1, in driver seat wiring harness
M42	Connection 2, in driver seat wiring harness
M43	Connection 3, in driver seat wiring harness
M44	Connection 4, in driver seat wiring harness
O15	Connection 4, in seat heating wiring harness
*	depends on equipment
**	applicable up to April 2005
***	applicable from May 2005

ws	=	white
sw	=	black
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br	=	brown
gn	=	green
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Heated front seats control unit, Climatronic control unit, air conditioning system control unit

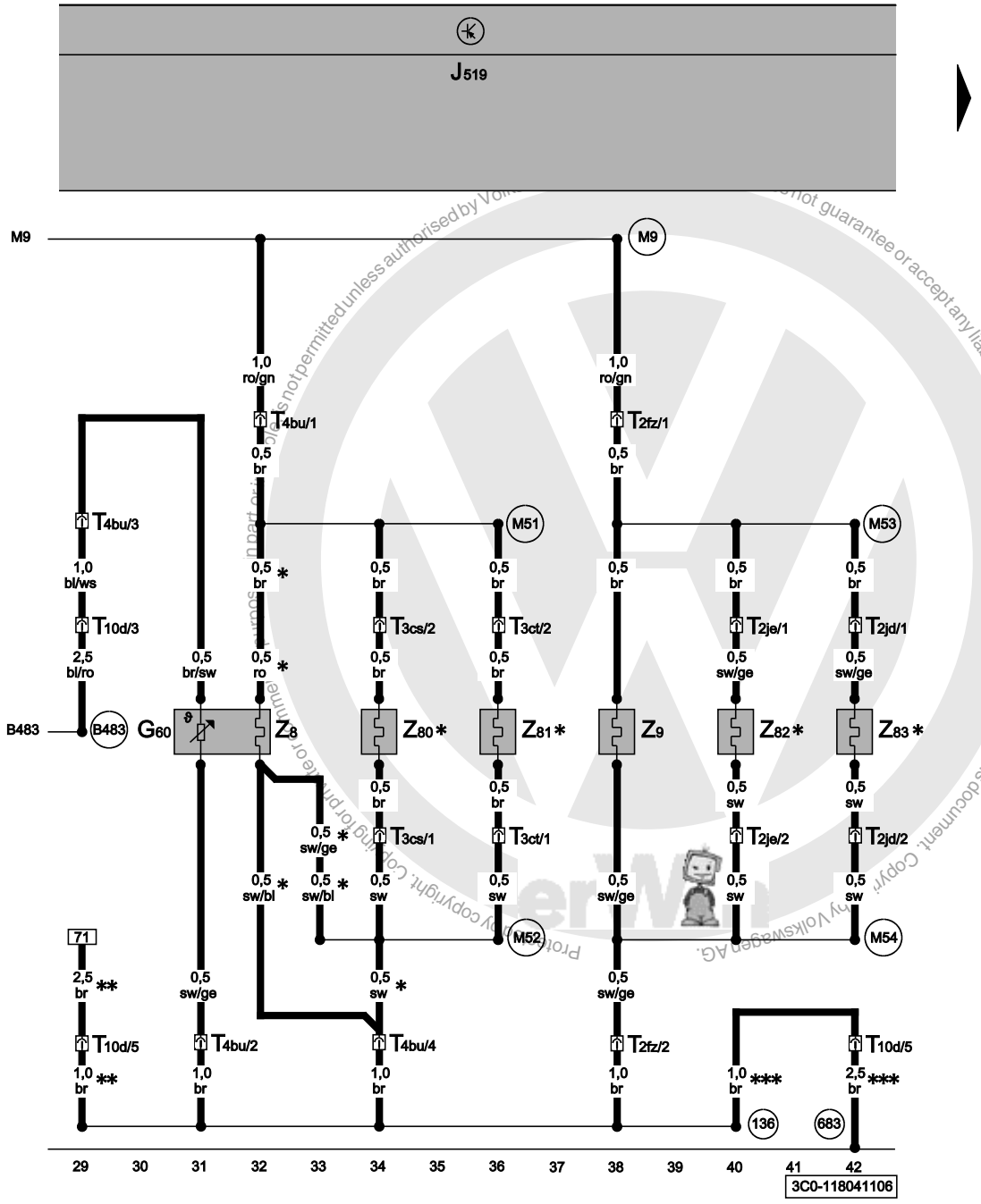
E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
J774	Heated front seats control unit
SC37	Fuse 37 on fuse holder C
SD39	Fuse 39 on fuse holder D
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under the seat
T10d	10-pin connector, black, coupling point front passenger side, under the seat
T12k	12-pin connector
T20b	20-pin connector, black
T20c	20-pin connector, on Climatronic/air conditioning system control unit
B349	Connection 2 (75A), in main wiring harness
B475	Connection 11, in main wiring harness
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness
O4	Positive connection (30as), in seat heating wiring harness
O16	Connection 5, in seat heating wiring harness
*	applicable up to April 2005
**	applicable from May 2005
#	only models with air conditioning system
##	only models with Climatronic
<fo:external-graphic src="/../PDOC/samba/tools/png-convert/out//slp/ft_icons/	only models with rear heated seat

ws = white

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ge	=	yellow	>
or	=	orange	
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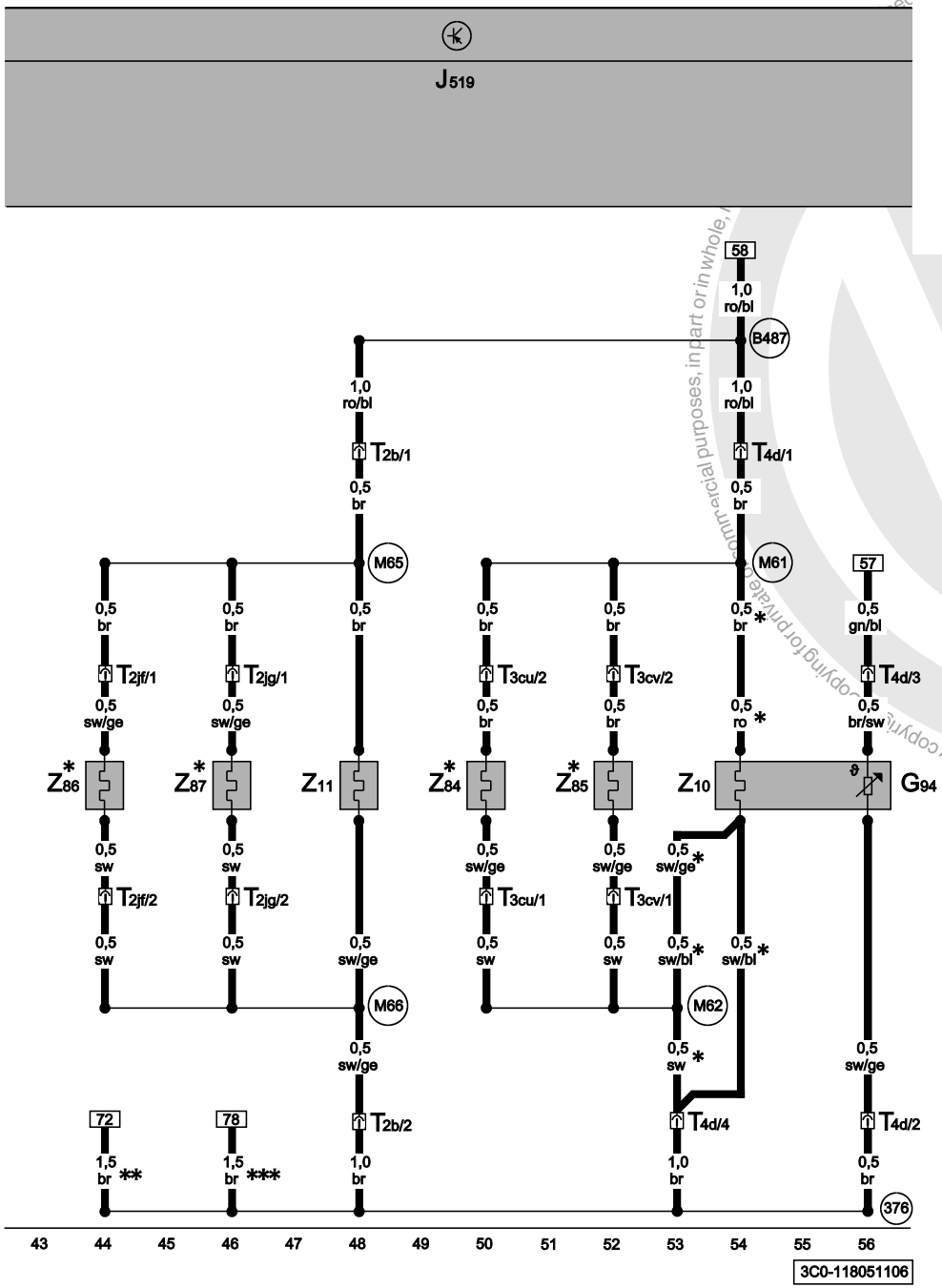


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Heated seat cushion for front passenger seat, heated backrest for front passenger seat, lateral support heater

G60	Front passenger seat temperature sensor
J519	Onboard supply control unit
T2fz	2-pin connector
T2je	2-pin connector
T2jd	2-pin connector
T3cs	3-pin connector
T3ct	3-pin connector
T4bu	4-pin connector, black, under front passenger seat
T10d	10-pin connector, black, coupling point front passenger side, under the seat
Z8	Heated front passenger seat cushion
Z9	Heated front passenger seat backrest
Z80	Front passenger seat left lateral support heater
Z81	Front passenger seat right lateral support heater
Z82	Front passenger seat backrest left lateral support heater
Z83	Front passenger seat backrest right lateral support heater
136	Earth connection 2, in seat heating wiring harness
683	Earth point, on front of right longitudinal member
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness
M51	Connection 1, in front passenger seat wiring harness
M52	Connection 2, in front passenger seat wiring harness
M53	Connection 3, in front passenger seat wiring harness
M54	Connection 4, in front passenger seat wiring harness
*	depends on equipment
**	applicable up to April 2005
***	applicable from May 2005

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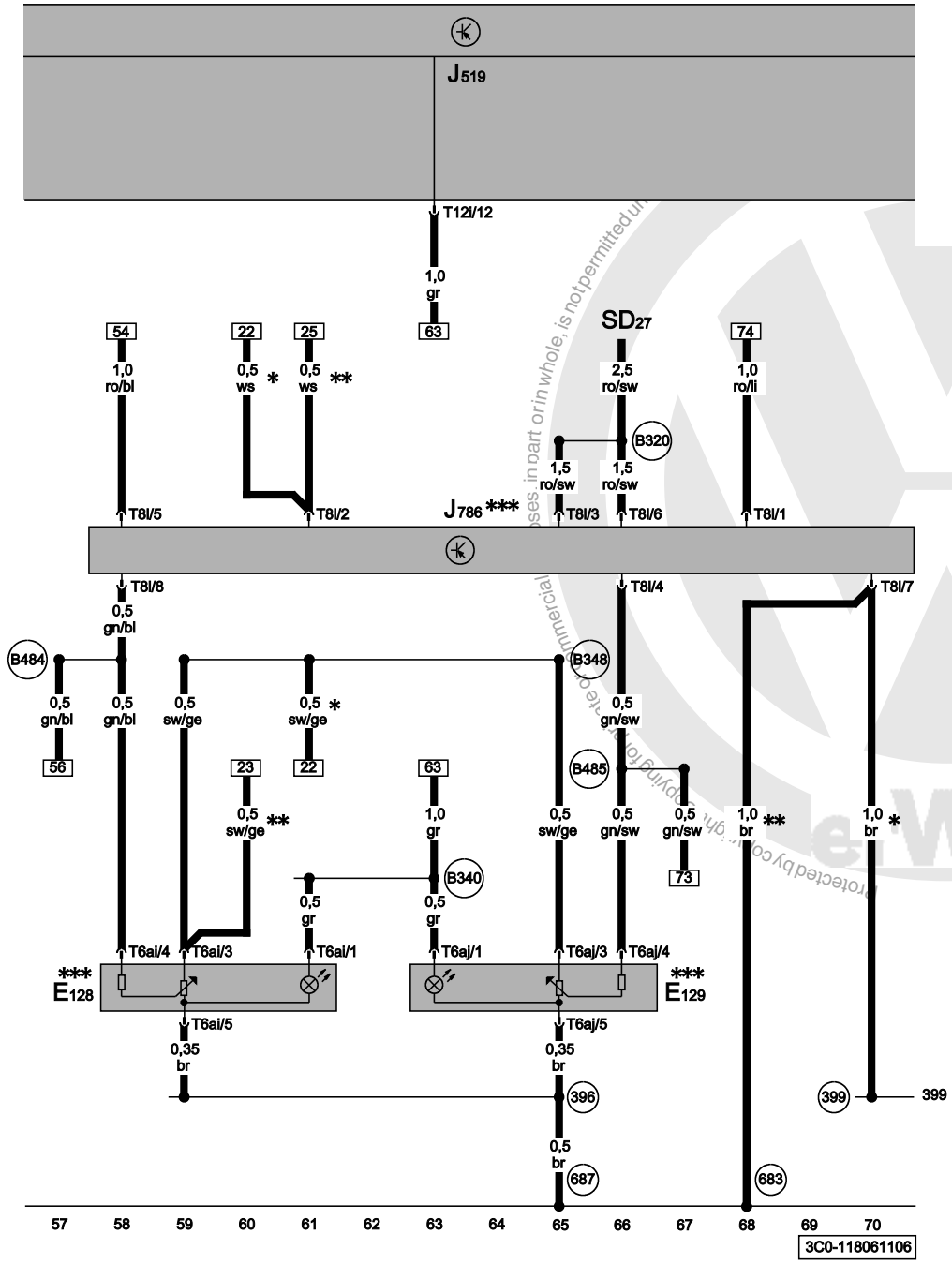


Heated rear left seat, heated backrest for rear left seat, lateral support heater

G94	Rear left seat temperature sensor
J519	Onboard supply control unit
T2b	2-pin connector
T2jf	2-pin connector
T2jg	2-pin connector
T3cu	3-pin connector
T3cv	3-pin connector
T4d	4-pin connector, black, undern left of rear seat
Z10	Heated rear left seat
Z11	Heated rear left seat backrest
Z84	Driver side rear seat left lateral support heater
Z85	Driver side rear seat right lateral support heater
Z86	Driver side rear seat left backrest lateral support heater
Z87	Driver side rear seat right backrest lateral support heater
376	Earth connection 11, in main wiring harness
B487	Connection 23, in main wiring harness
M61	Connection 1, in rear seat wiring harness
M62	Connection 2, in rear seat wiring harness
M65	Connection 5, in rear seat wiring harness
M66	Connection 6, in rear seat wiring harness
*	depends on equipment
**	applicable up to April 2005
***	applicable from May 2005

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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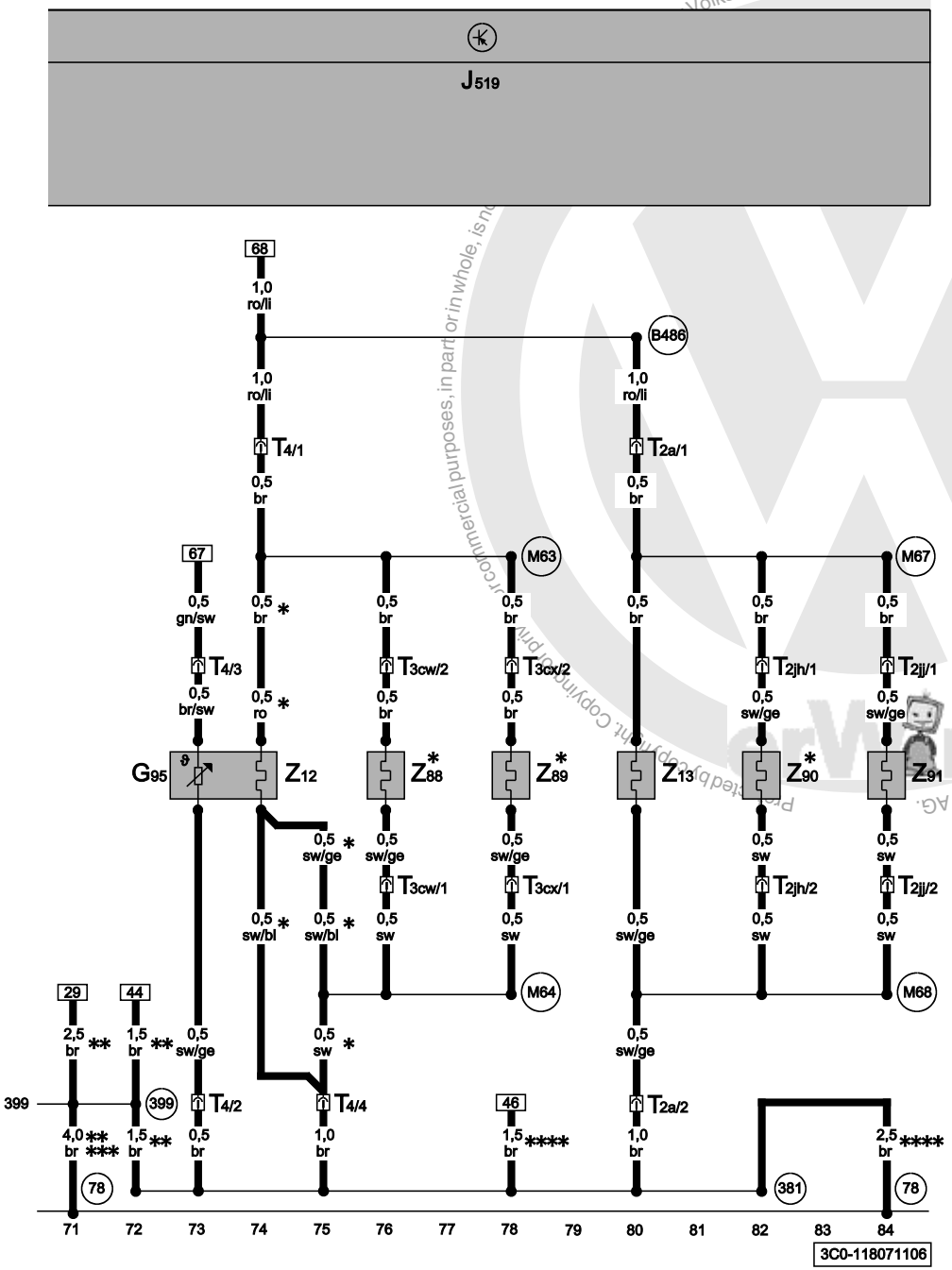


Heated backrest control unit, heated rear seat switch with regulator

E128	Heated rear left seat switch with regulator
E129	Heated rear right seat switch with regulator
J519	Onboard supply control unit
J786	Heated backrest control unit
SD27	Fuse 27 on fuse holder D
T6ai	6-pin connector
T6aj	6-pin connector
T8l	8-pin connector
T12i	12-pin connector
396	Earth connection 31, in main wiring harness
399	Earth connection 34, in main wiring harness
683	Earth point, on front of right longitudinal member
687	Earth point 1, on centre tunnel
B320	Positive connection 6 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B348	Connection 1 (75A), in main wiring harness
B484	Connection 20, in main wiring harness
B485	Connection 21, in main wiring harness
*	applicable up to April 2005
**	applicable from May 2005
***	only models with rear heated seat

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Heated rear right seat, heated backrest for rear right seat, lateral support heater

G95	Rear right seat temperature sensor
J519	Onboard supply control unit
T2a	2-pin connector
T2jh	2-pin connector
T2jj	2-pin connector
T3cw	3-pin connector
T3cx	3-pin connector
T4	4-pin connector, black, undern right of rear seat
Z12	Heated rear right seat
Z13	Heated rear right seat backrest
Z88	Front passenger side rear seat left lateral support heater
Z89	Front passenger side rear seat right lateral support heater
Z90	Front passenger side rear seat left backrest lateral support heater
Z91	Front passenger side rear seat right backrest lateral support heater
78	Earth point, lower part of right B-pillar
381	Earth connection 16, in main wiring harness
399	Earth connection 34, in main wiring harness
B486	Connection 22, in main wiring harness
M63	Connection 3, in rear seat wiring harness
M64	Connection 4, in rear seat wiring harness
M67	Connection 7, in rear seat wiring harness
M68	Connection 8, in rear seat wiring harness
*	depends on equipment
**	applicable up to April 2005
***	cross section are equipment dependant
****	applicable from May 2005

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Garage door opener

From November 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

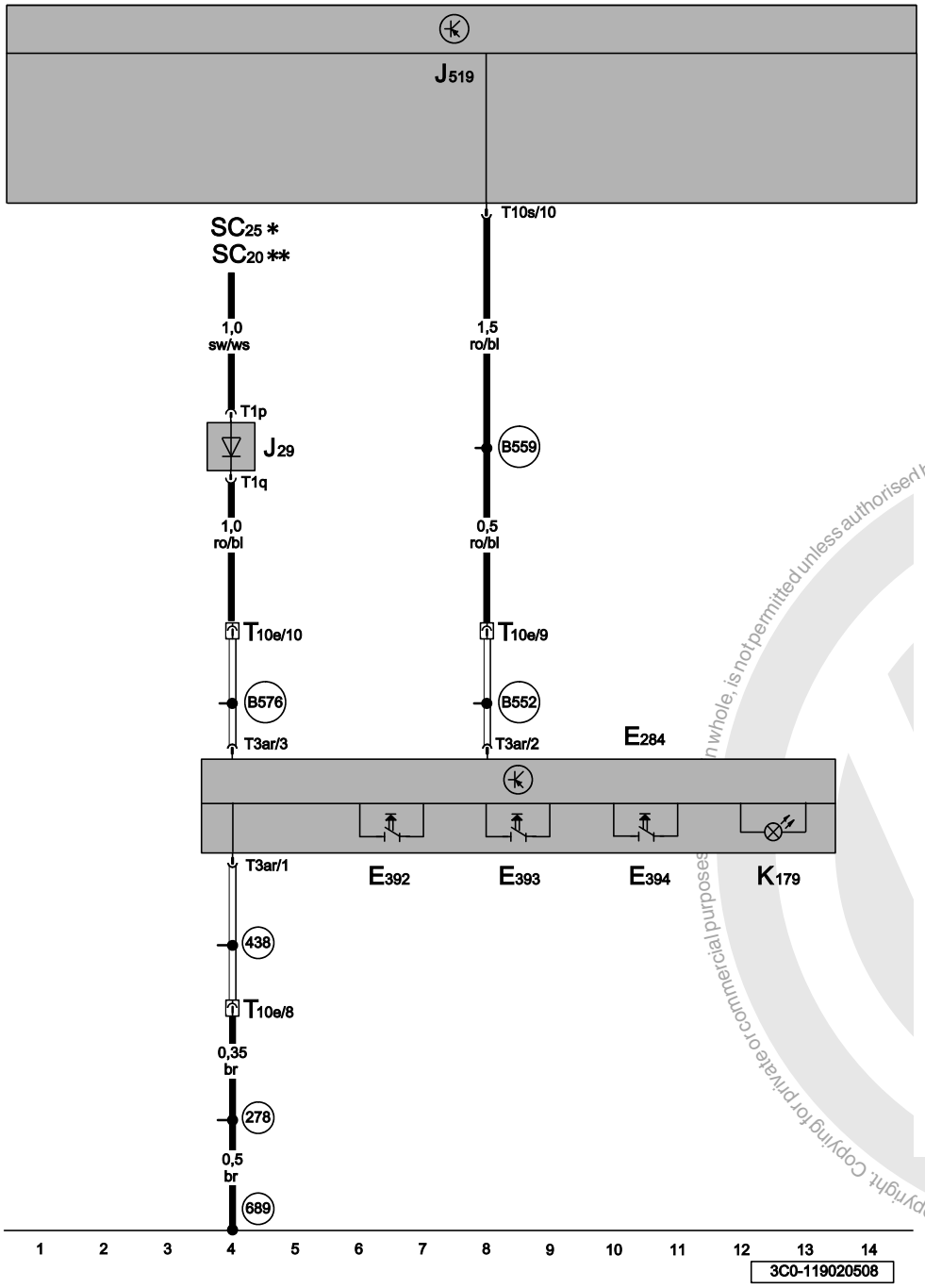
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Garage door operating unit, garage door opener button

E284	Garage door operating unit
E392	Garage door opener button 1
E393	Garage door opener button 2
E394	Garage door opener button 3
J29	Blocking diode
J519	Onboard supply control unit
K179	Garage door opener warning lamp
SC25	Fuse 25 on fuse holder C
T1p	Single connector
T1q	Single connector
T3ar	3-pin connector
T10e	10-pin connector, black, coupling point for roof wiring harness
T10s	10-pin connector, black
278	Earth connection 4, in interior wiring harness
438	Earth connection 3, in roof wiring harness
689	Earth point, front centre of roof
B552	Positive connection 2, in roof wiring harness
B559	Connection 1 (30g), in main wiring harness
B576	Positive connection (15), in roof wiring harness
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br	=	brown
gn	=	green
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rs	=	pink

* Applicable to April 2008
** Applicable from May 2008

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Seat adjustment with no memory function, driver side

From November 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

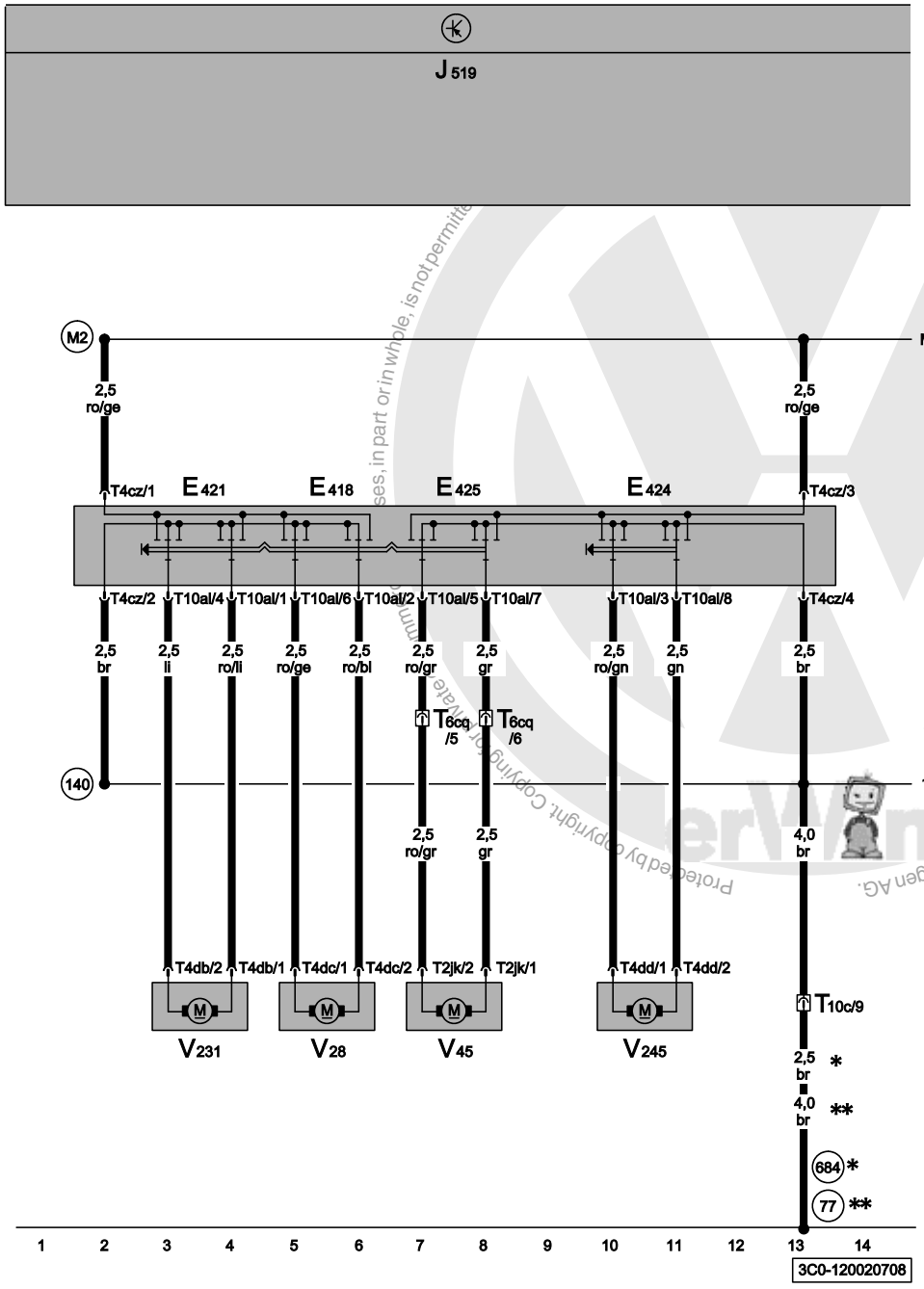
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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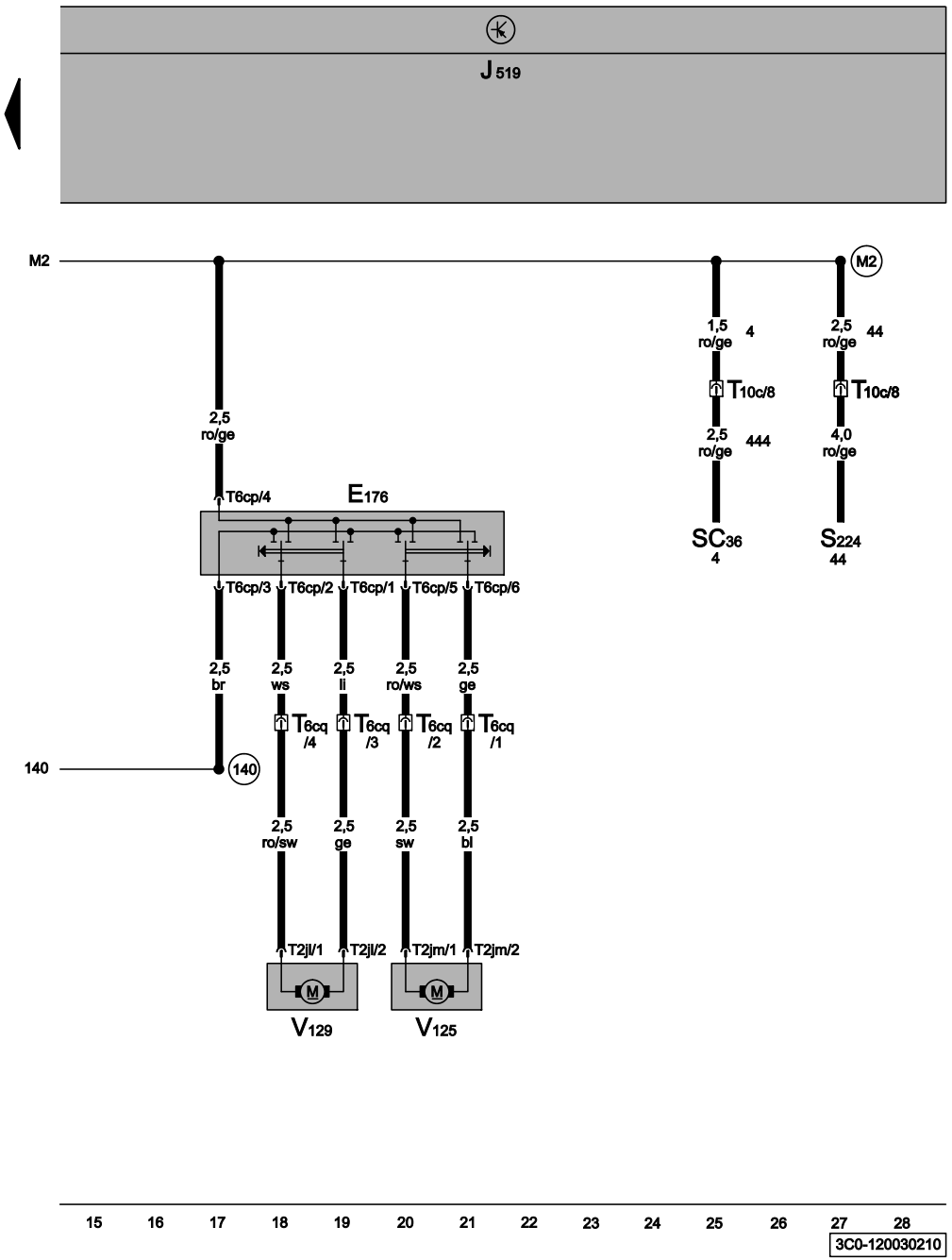


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Seat longitudinal adjustment, rake adjustment, seat height adjustment, backrest adjustment, driver side

E418	Seat longitudinal adjustment button
E421	Rake adjustment button
E424	Seat height adjustment button
E425	Backrest adjustment button
J519	Onboard supply control unit
T2jk	2-pin connector
T4cz	4-pin connector
T4db	4-pin connector
T4dc	4-pin connector
T4dd	4-pin connector
T6cq	6-pin connector, in seat
T10c	10-pin connector, black, coupling point driver side, under seat
T10al	10-pin connector
V28	Driver seat longitudinal adjustment motor
V45	Driver seat backrest adjustment motor
V231	Seat rake adjustment motor
V245	Driver seat height adjustment motor
77	Earth point, lower part of left B-pillar
140	Earth connection 2, in seat adjustment wiring harness
684	Earth point, on front of left side member
M2	Positive connection 2 (30), in seat adjustment wiring harness
*	Applicable from May 2008
**	Applicable to April 2008

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Driver side lumbar support

E176	Driver seat lumbar support adjustment switch
J519	Onboard supply control unit
S224	Fuse in fuse holder on left under dash panel
SC36	Fuse 36 on fuse holder C
T2jl	2-pin connector
T2jm	2-pin connector
T6cp	6-pin connector
T6cq	6-pin connector, in seat
T10c	10-pin connector, black, coupling point driver side, under seat
V125	Driver seat lumbar support longitudinal adjustment motor
V129	Driver seat lumbar support height adjustment motor
140	Earth connection 2, in seat adjustment wiring harness
M2	Positive connection 2 (30), in seat adjustment wiring harness
*	Applicable from May 2008
**	Applicable to April 2008

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Auxiliary air heater (PTC)

From November 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

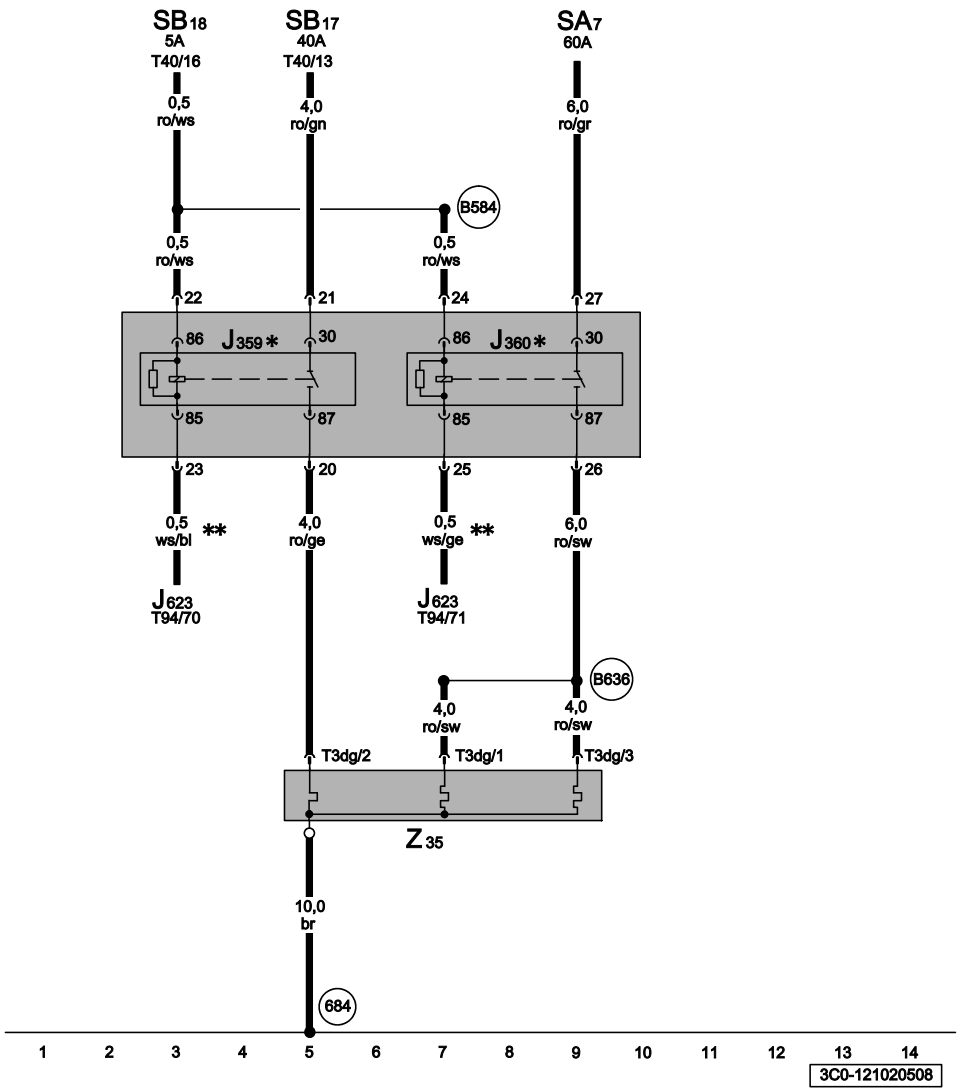
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Auxiliary air heater control unit, auxiliary air heater element

J359	Low heat output relay
J360	High heat output relay
J623	Engine control unit
SA7	Fuse 7 on fuse holder A
SB17	Fuse 17 on fuse holder B
SB18	Fuse 18 on fuse holder B
T3dg	3-pin connector
T40	40-pin connector
T94	94-pin connector
Z35	Auxiliary air heater element
684	Earth point, on front of left side member
B584	Positive connection 1 (87a), in interior wiring harness
B636	Connection (supplementary heater), in main wiring harness
*	Additional relay carrier, near E-box on left in engine compartment
**	Not for engine codes CBAA, CBAB und CBBB

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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1.9 l/77 kW - Turbodiesel, engine code BXE

From November 2006

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

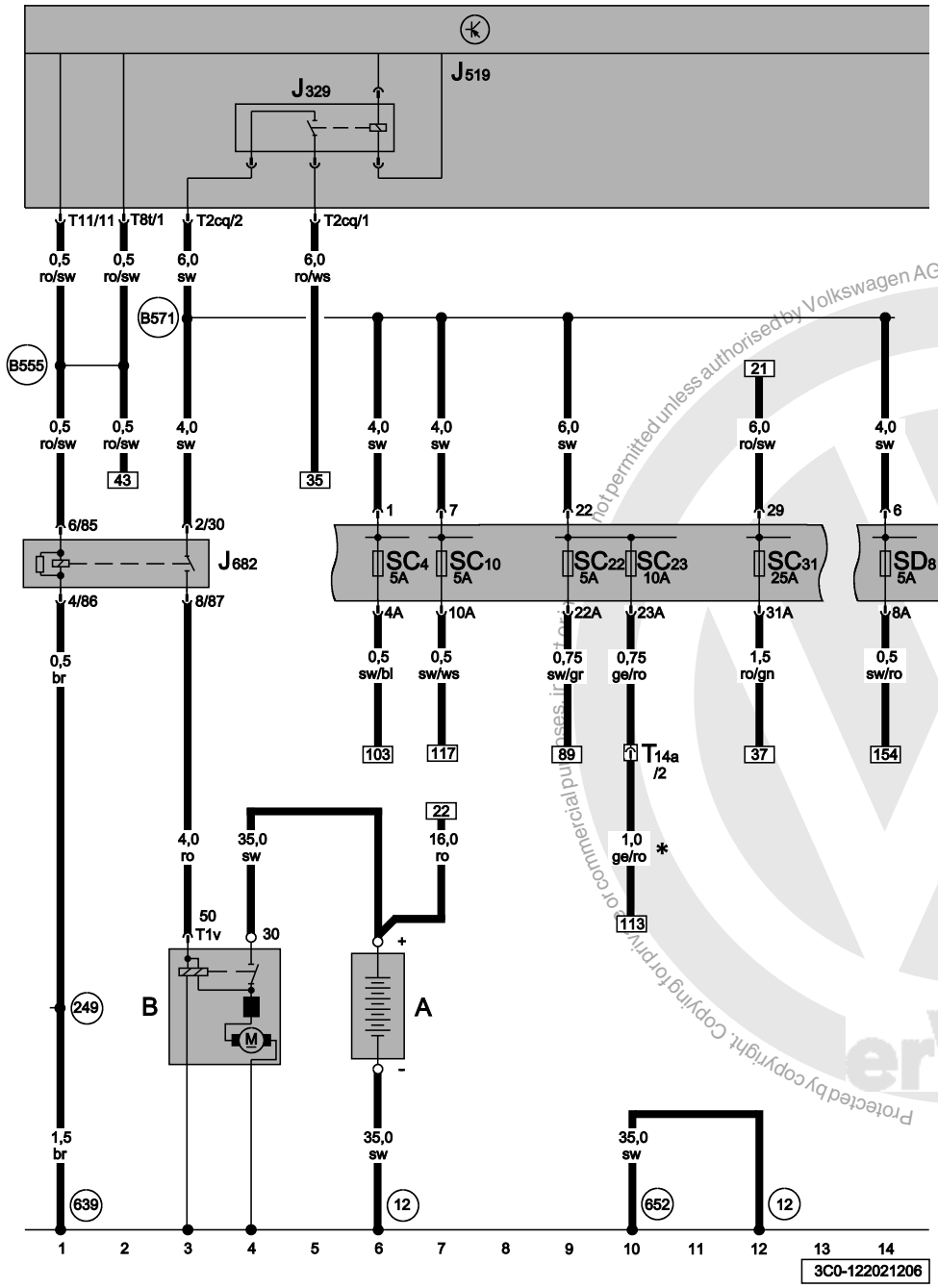
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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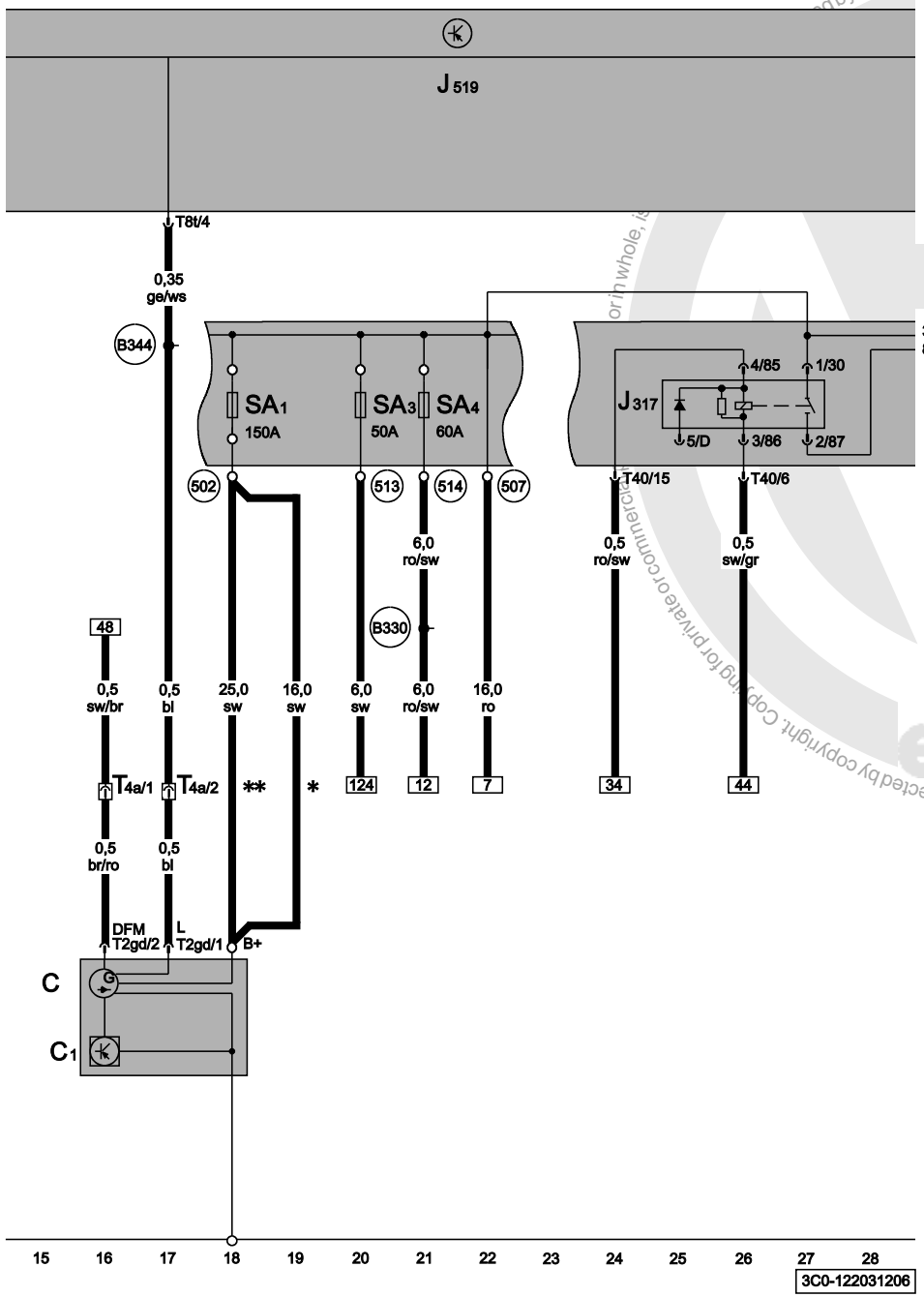


Battery, starter, terminal 15 voltage supply relay 2, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
J329	Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38 in main wiring harness
*	models for cold countries only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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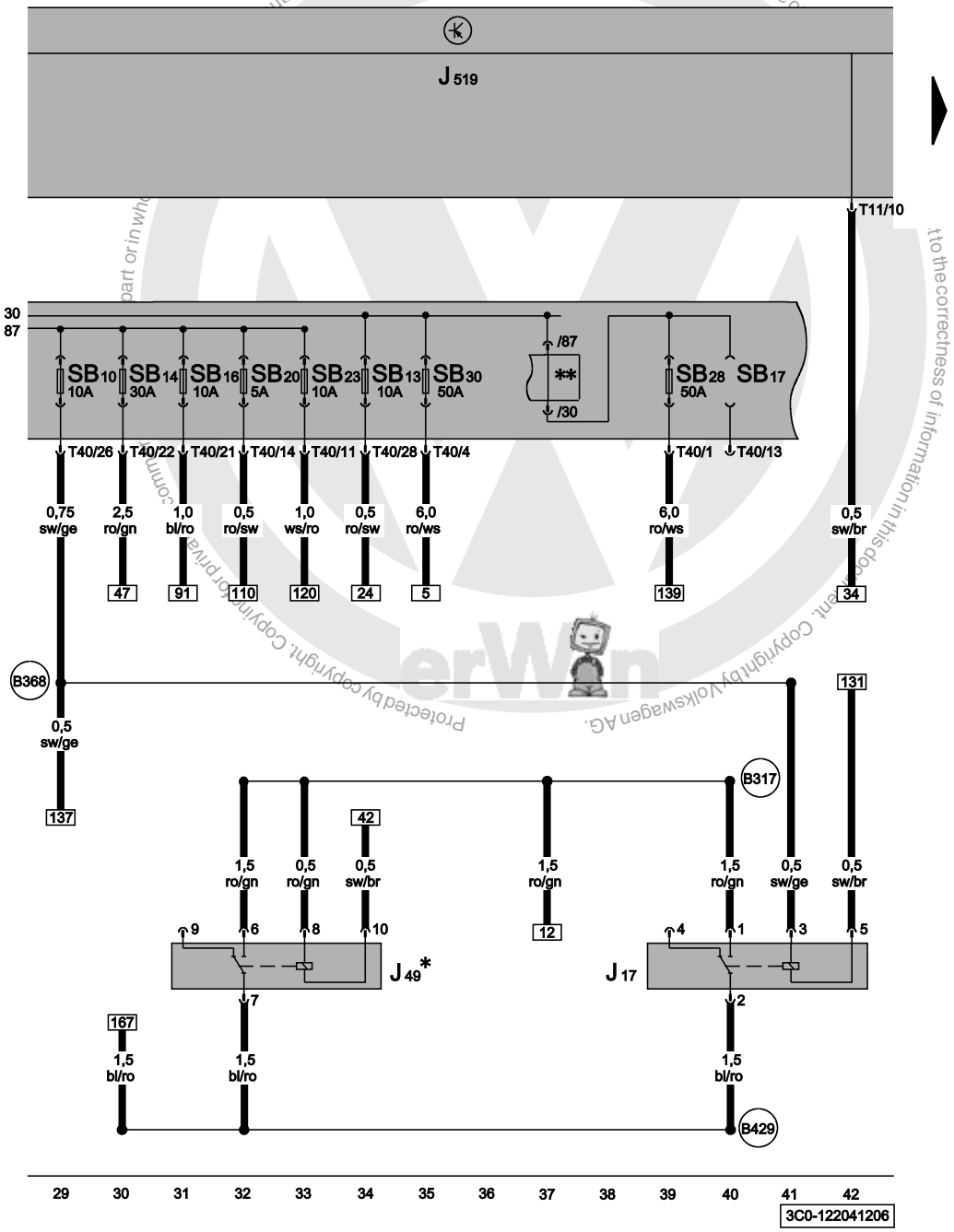


Alternator, terminal 30 voltage supply relay, fuses SA

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on fuse holder on battery
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	only models with 110 A alternator
**	only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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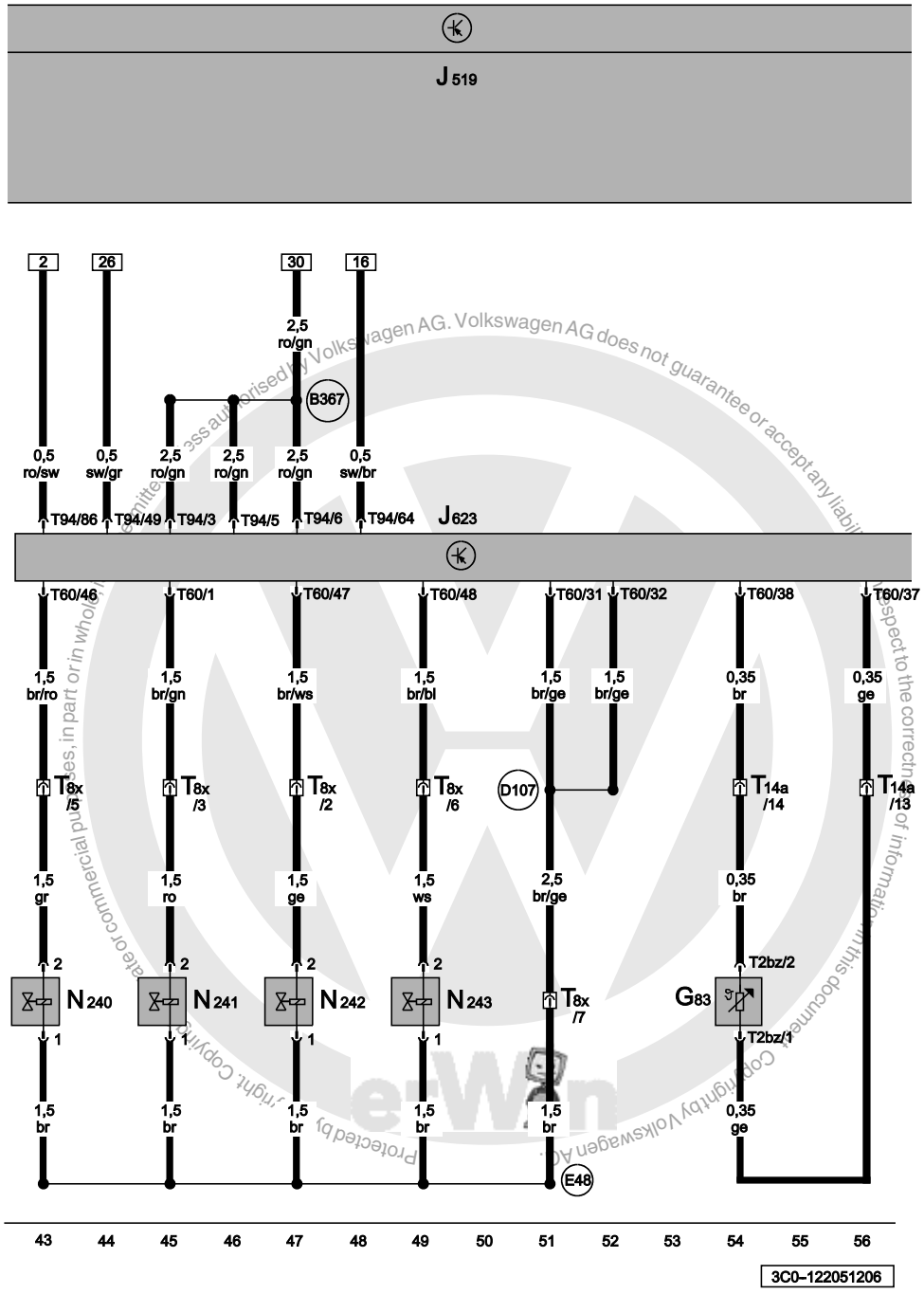
Fuel pump relay, electric fuel pump 2 relay, fuses SB

J17	Fuel pump relay, on relay carrier under dash panel on left (404)
J49	Electric fuel pump 2 relay, on relay carrier under left dash panel (404)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only auxiliary coolant heater
**	push-in bridge on the relay locations R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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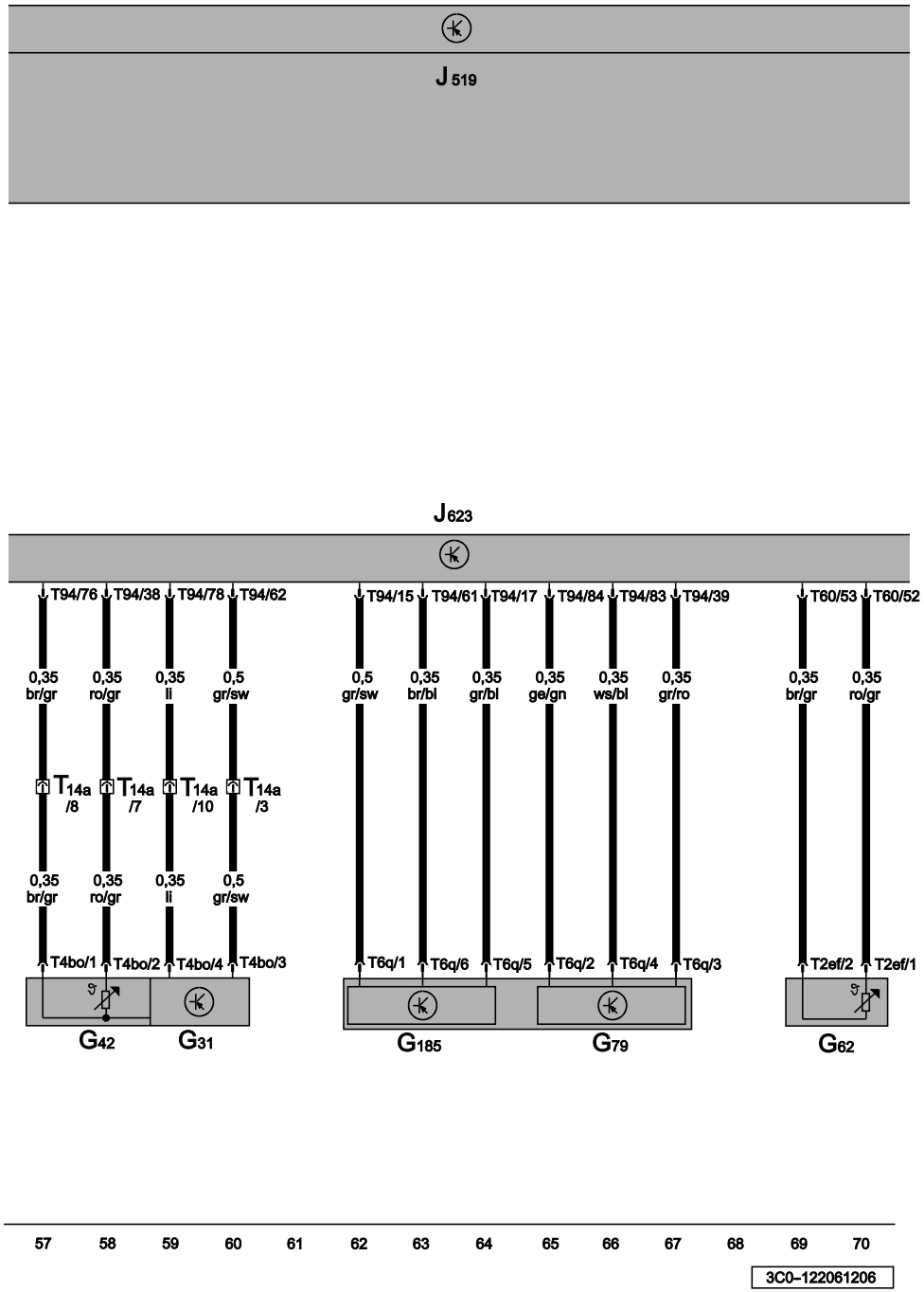
Engine control unit, radiator outlet coolant temperature sender, unit injector valves, No. 1 cyl. to No. 4



G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
T2bz	2-pin connector
T8x	8-pin connector, near injectors
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D107	Connection 5, in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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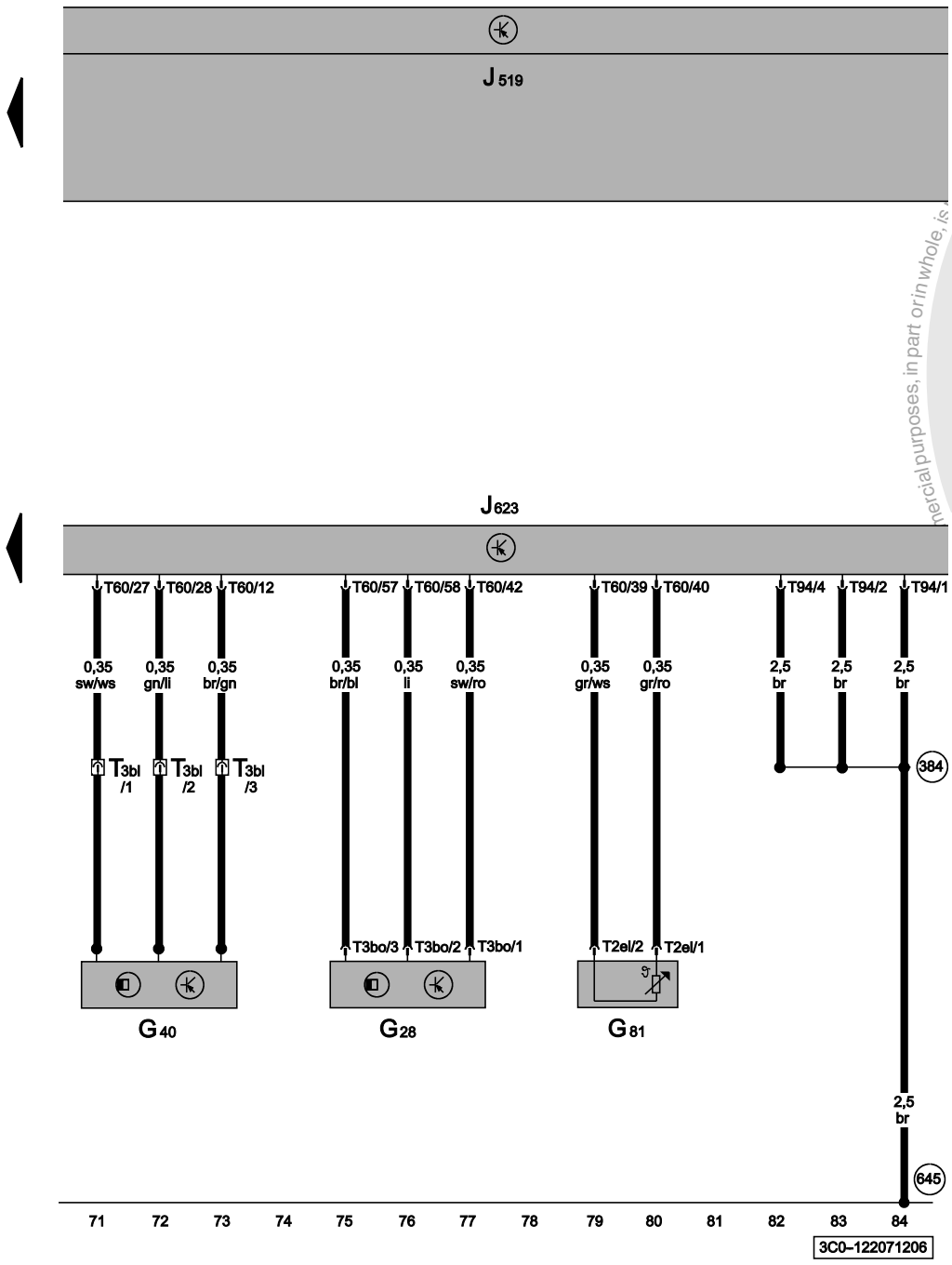


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender 2, coolant temperature sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2ef	2-pin connector, black
T4bo	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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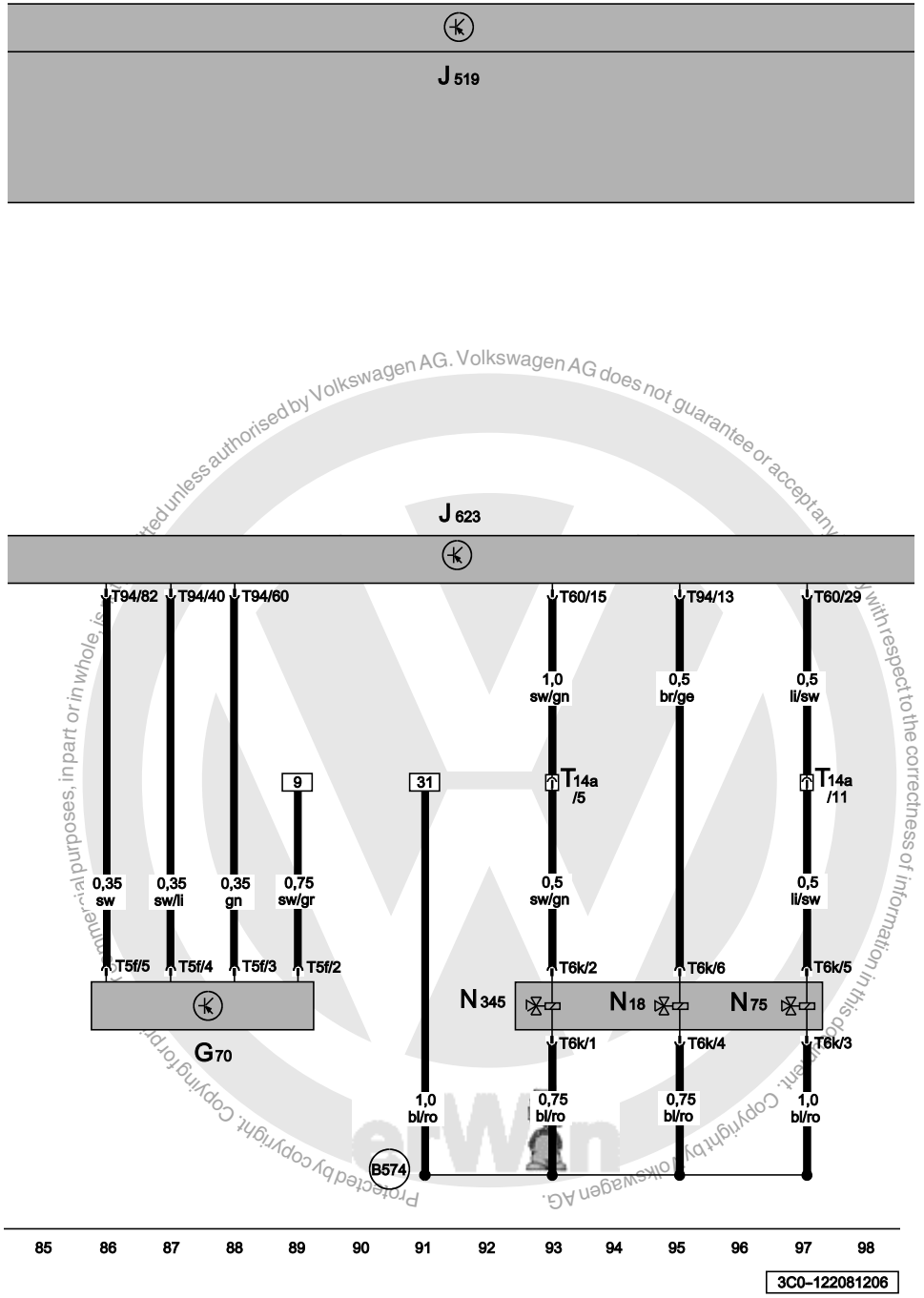


Engine control unit, engine speed sender, Hall sender, fuel temperature sender

G28	Engine speed sender
G40	Hall sender
G81	Fuel temperature sender
J519	Onboard supply control unit
J623	Engine control unit
T2el	2-pin connector, black
T3bl	3-pin connector, black
T3bo	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
384	Earth connection 19, in main wiring harness
645	Earth point 1, bulkhead

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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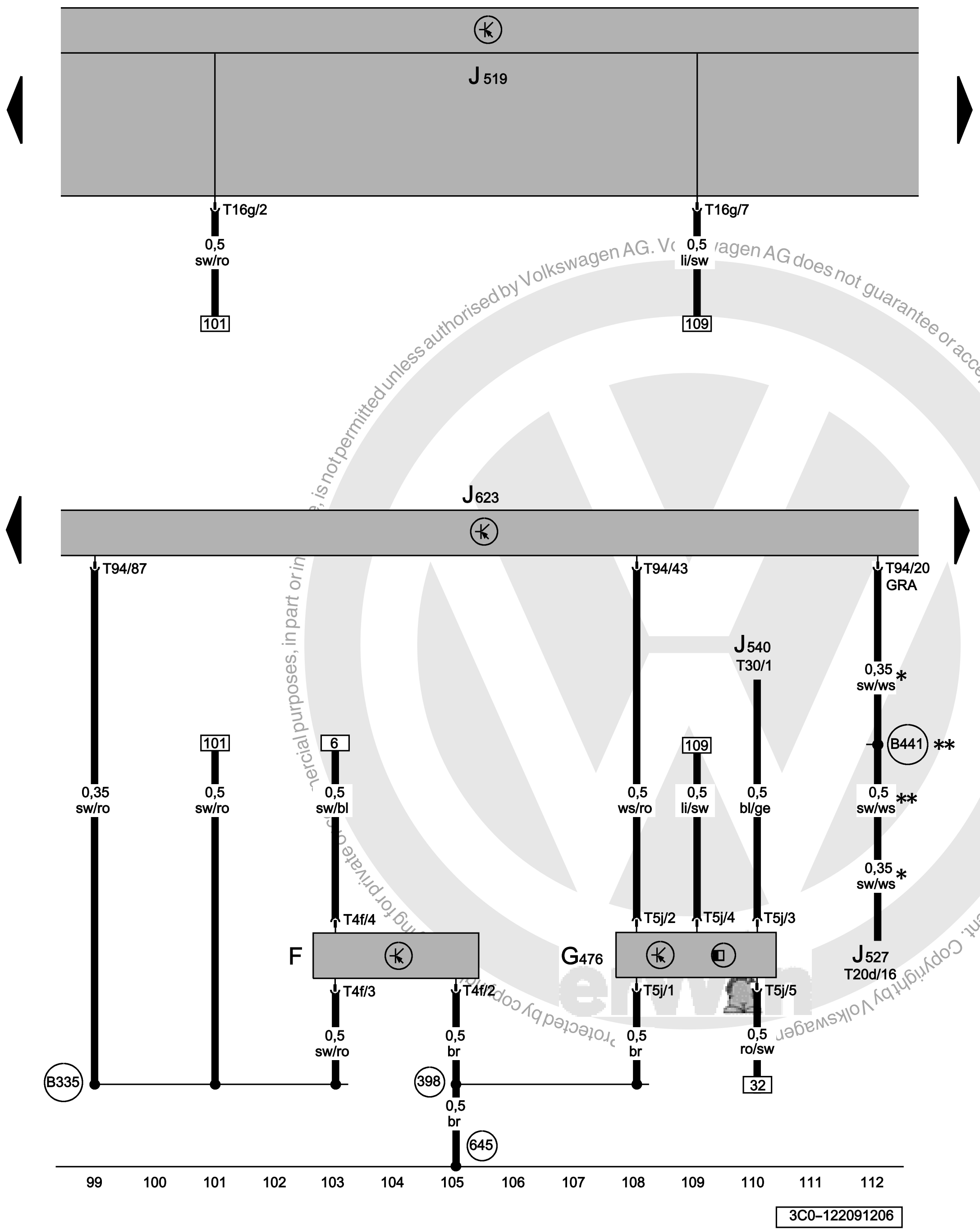


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Engine control unit, exhaust gas recirculation valve, air mass meter, charge pressure control solenoid valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler change-over valve
T5f	5-pin connector
T6k	6-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness

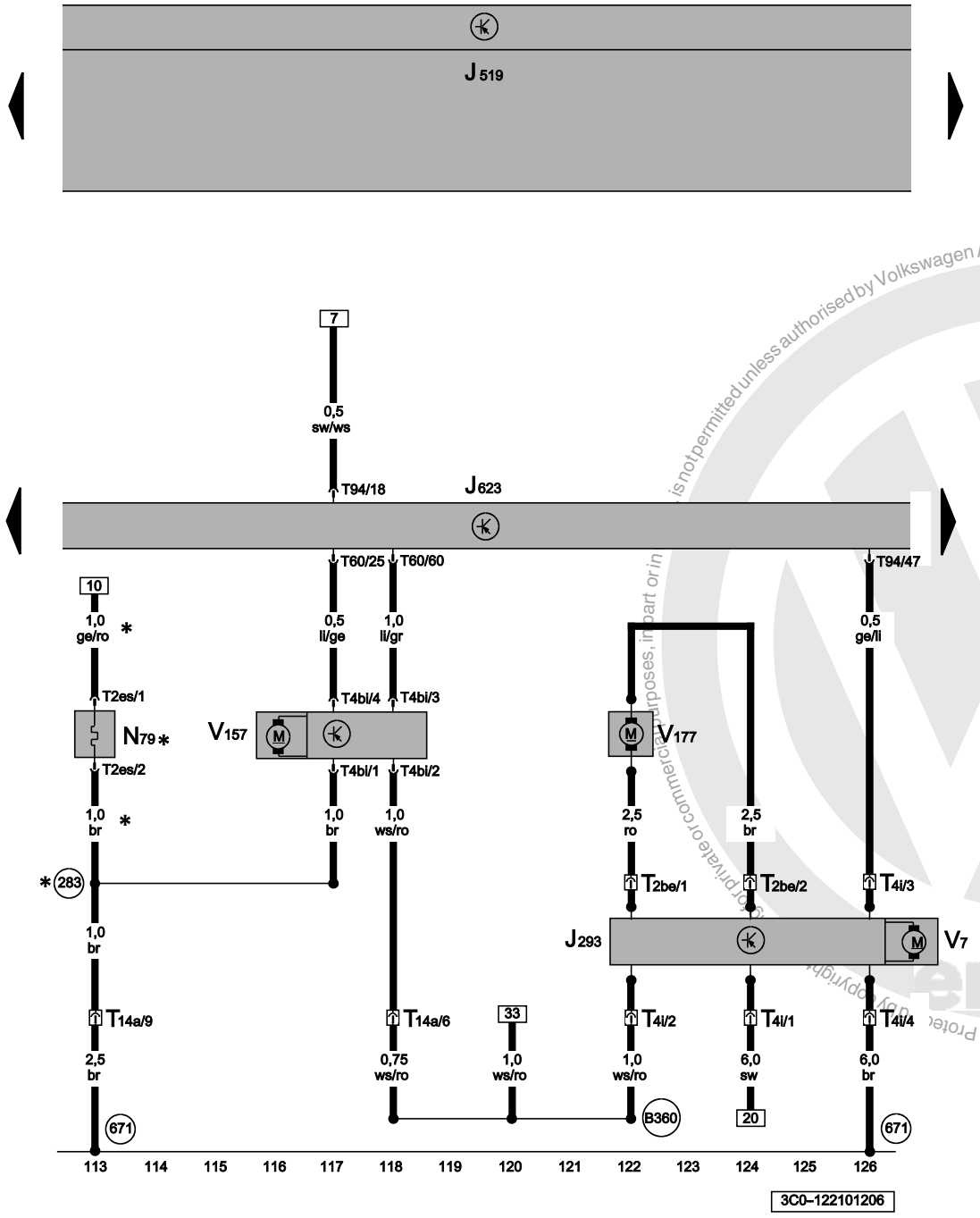
ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink



Engine control unit, clutch position sender, brake light switch, brake pedal switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, bulkhead
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	for models with CCS only
**	models with adaptive cruise control only

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

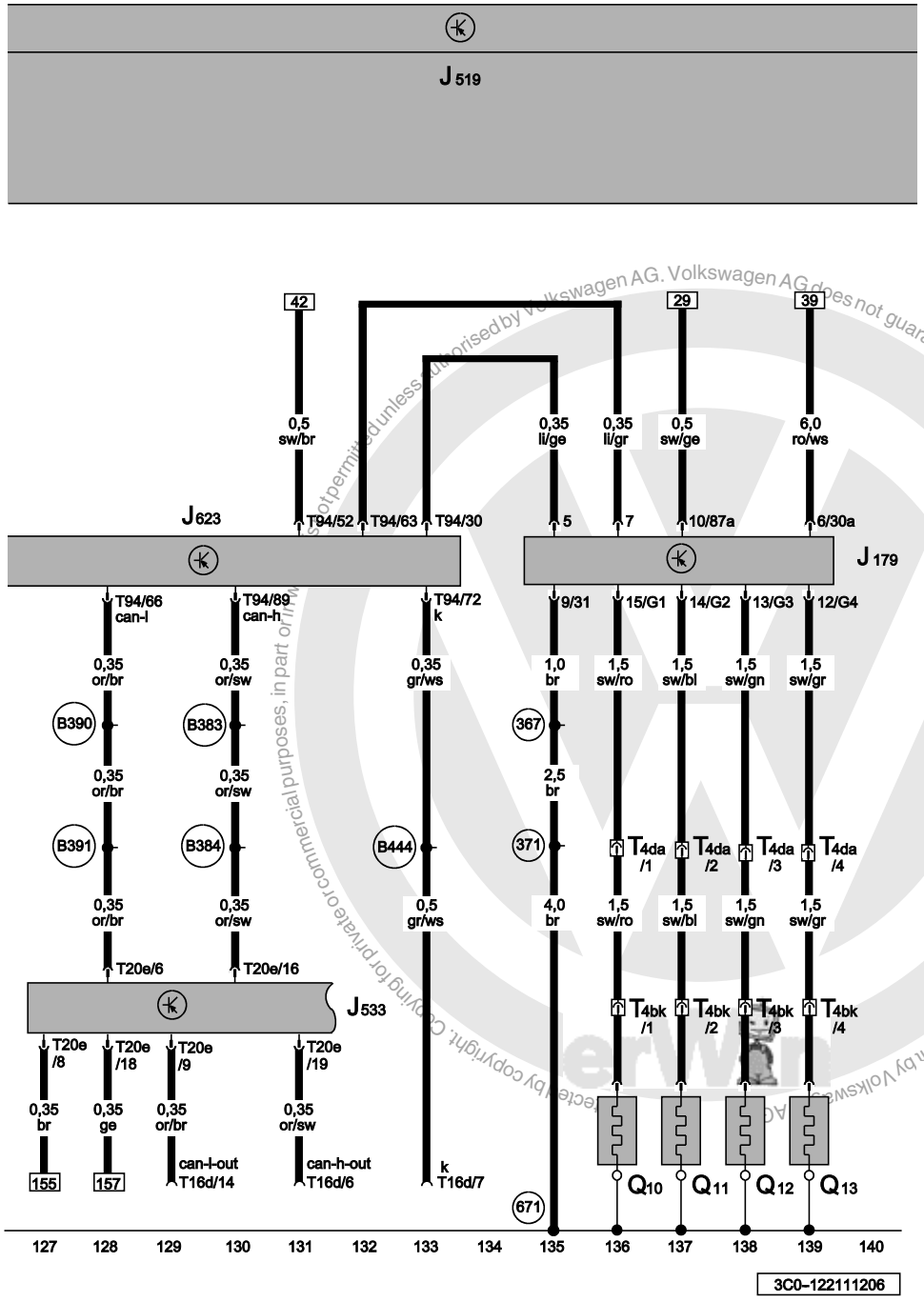


Engine control unit, heater element for crankcase breather, radiator fan, intake manifold flap motor

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N79	Heater element for crankcase breather
T2be	2-pin connector, on lock carrier
T2es	2-pin connector
T4i	4-pin connector, black, coupling point radiator fan on centre lock carrier
T4bi	4-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V157	Intake manifold flap motor
V177	Radiator fan 2
283	Earth point 2, engine prewiring harness
671	Earth point 1, on front of left longitudinal member
B360	Connection 11 (87a), in main wiring harness
*	models for cold countries only

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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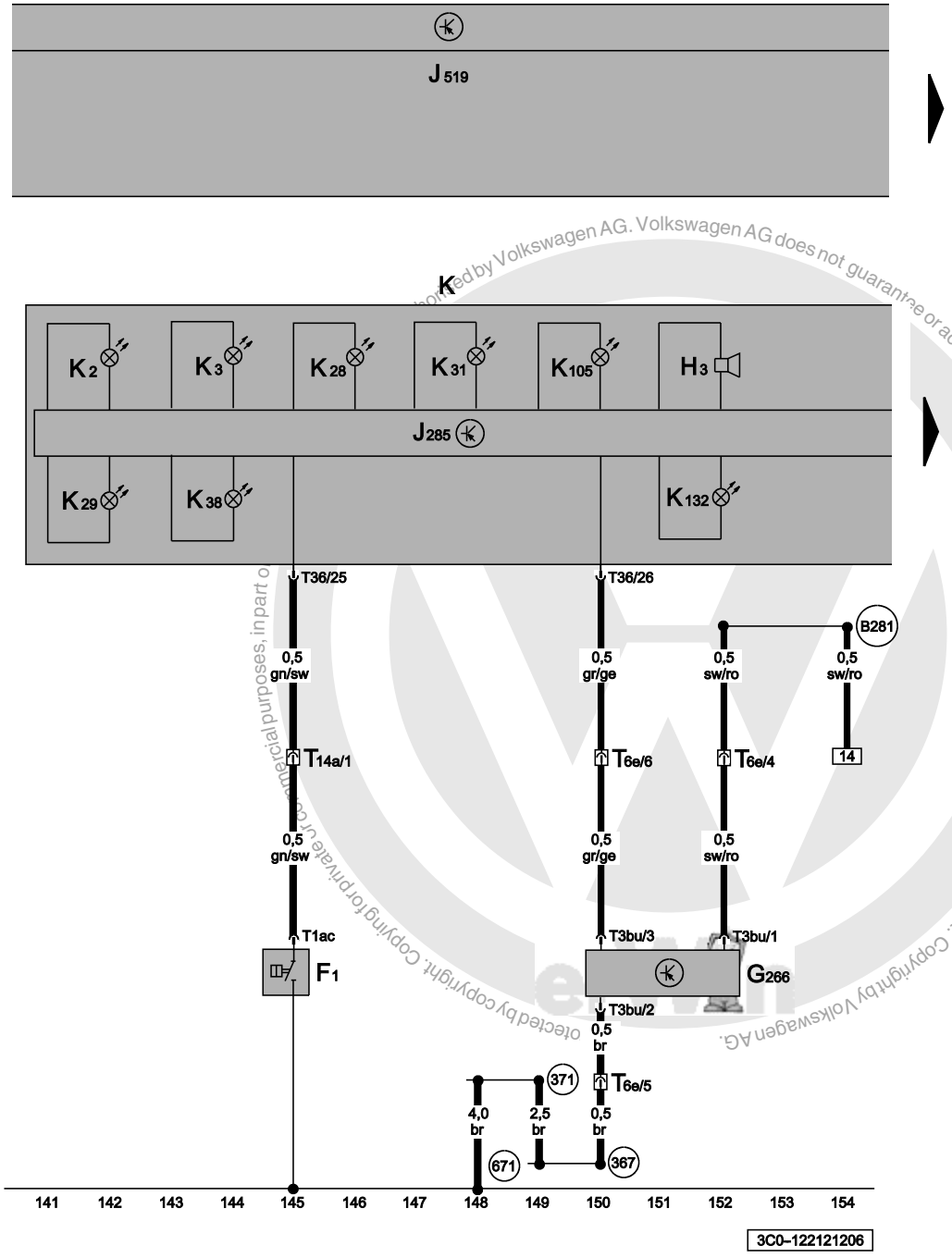


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
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Engine control unit, Aautomatic glow period control unit, glow plugs 1-4, data bus diagnostic interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T4bk	4-pin connector, coupling point glow plugs
T4da	4-pin connector, black
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

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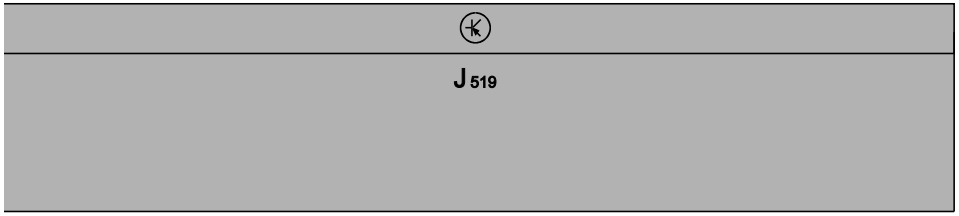


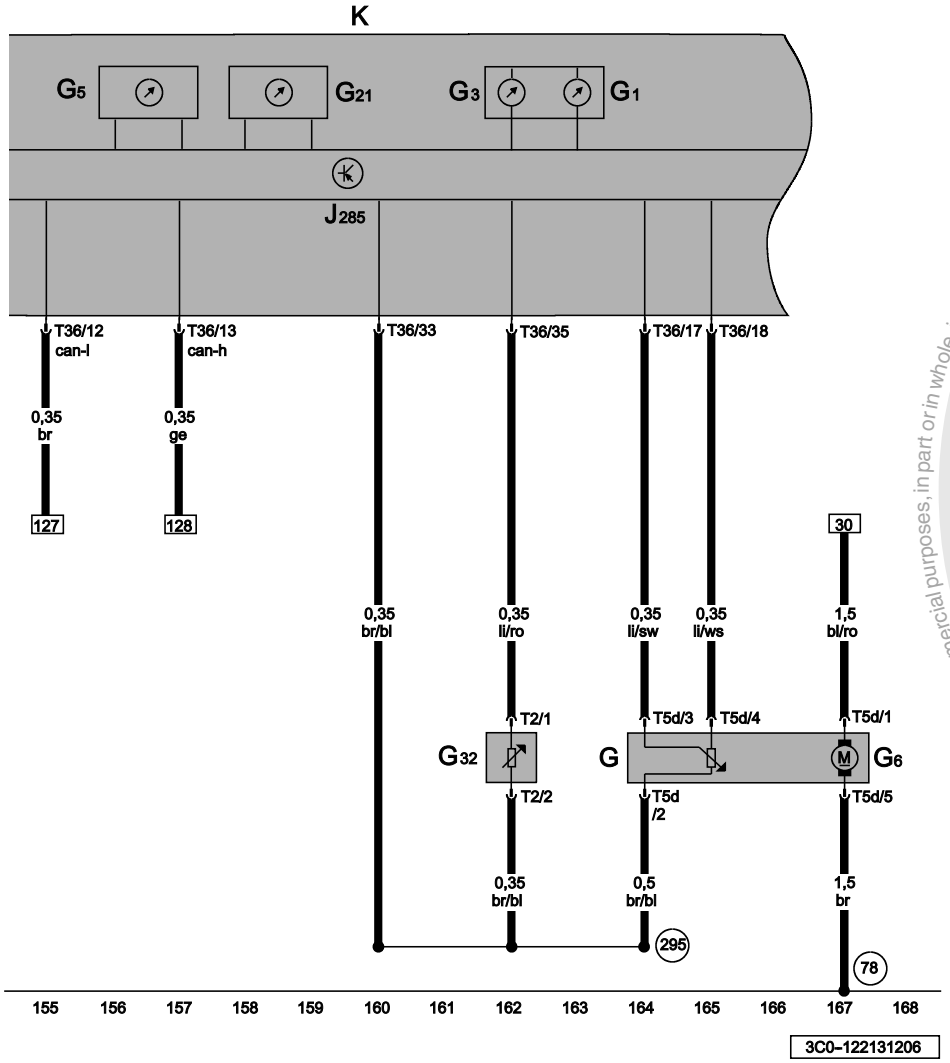
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Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T36	36-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink





Dash panel insert, rev counter, speedometer, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T5d	5-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
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bl	=	blue
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2.0 l/125 kW - turbo diesel, engine codes BMR

From November 2006

2.0 l/120 kW - turbo diesel, engine code BUZ

From November 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

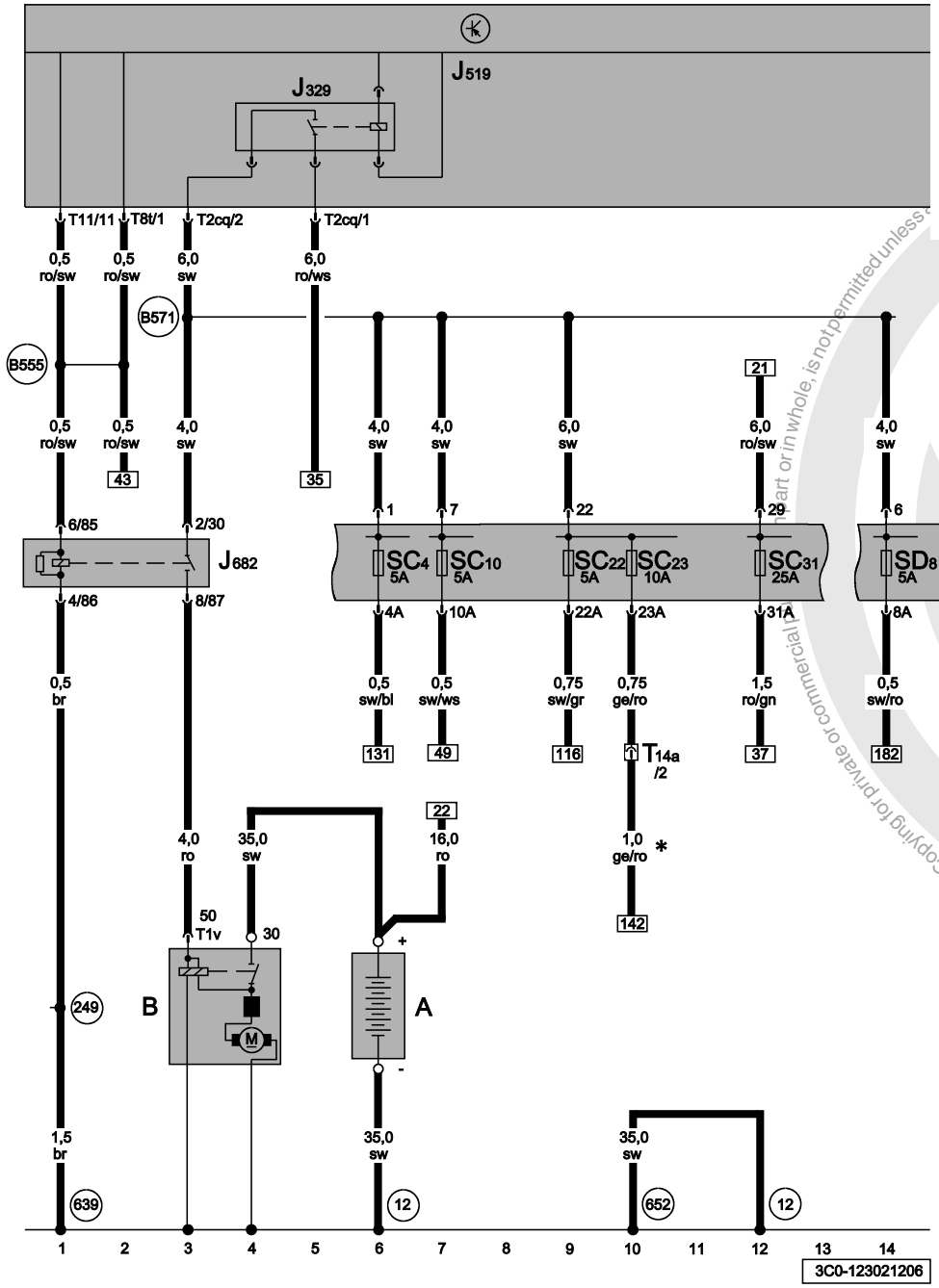
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For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

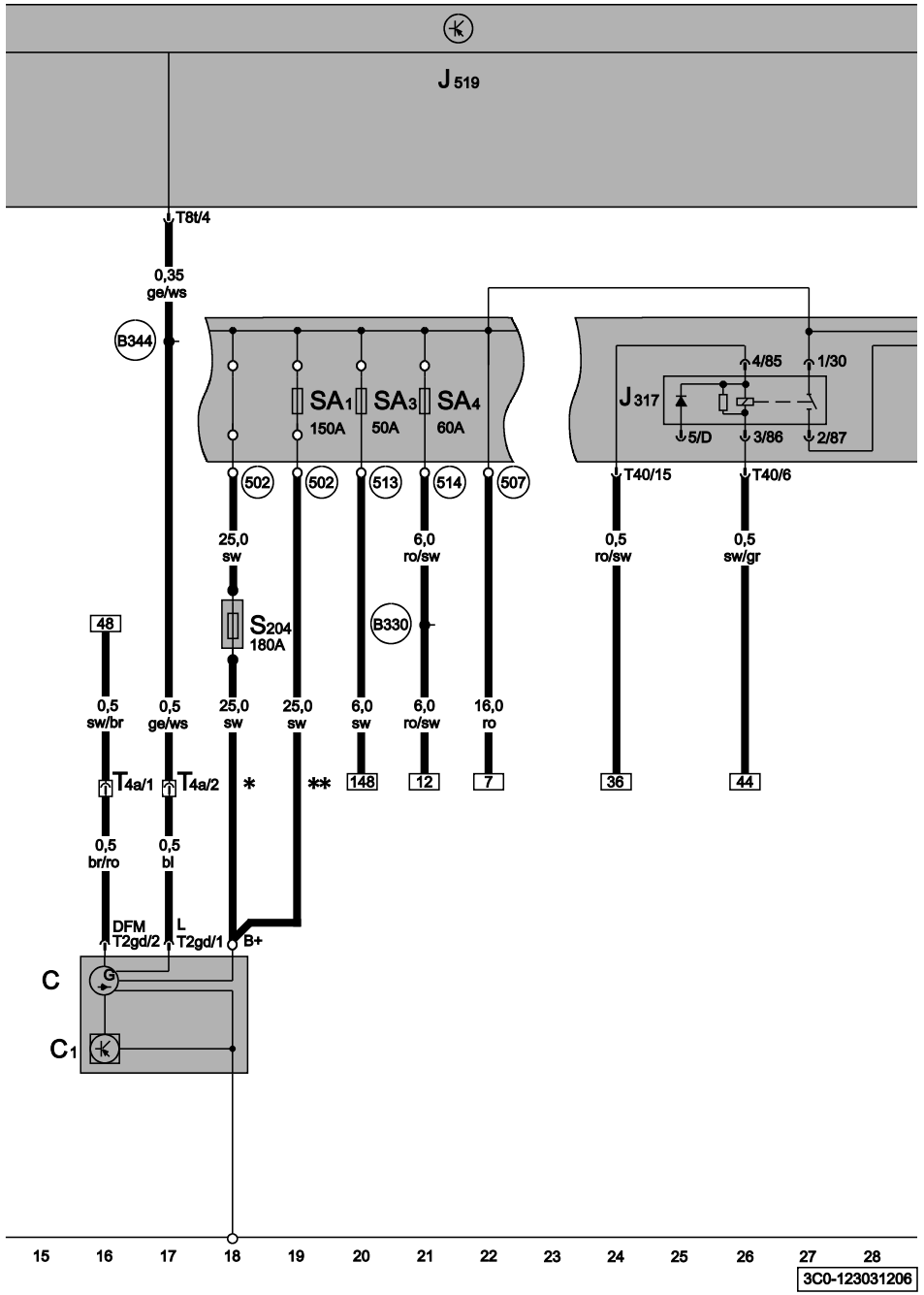
A	Battery
B	Starter
J519	Onboard supply control unit
J329	Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

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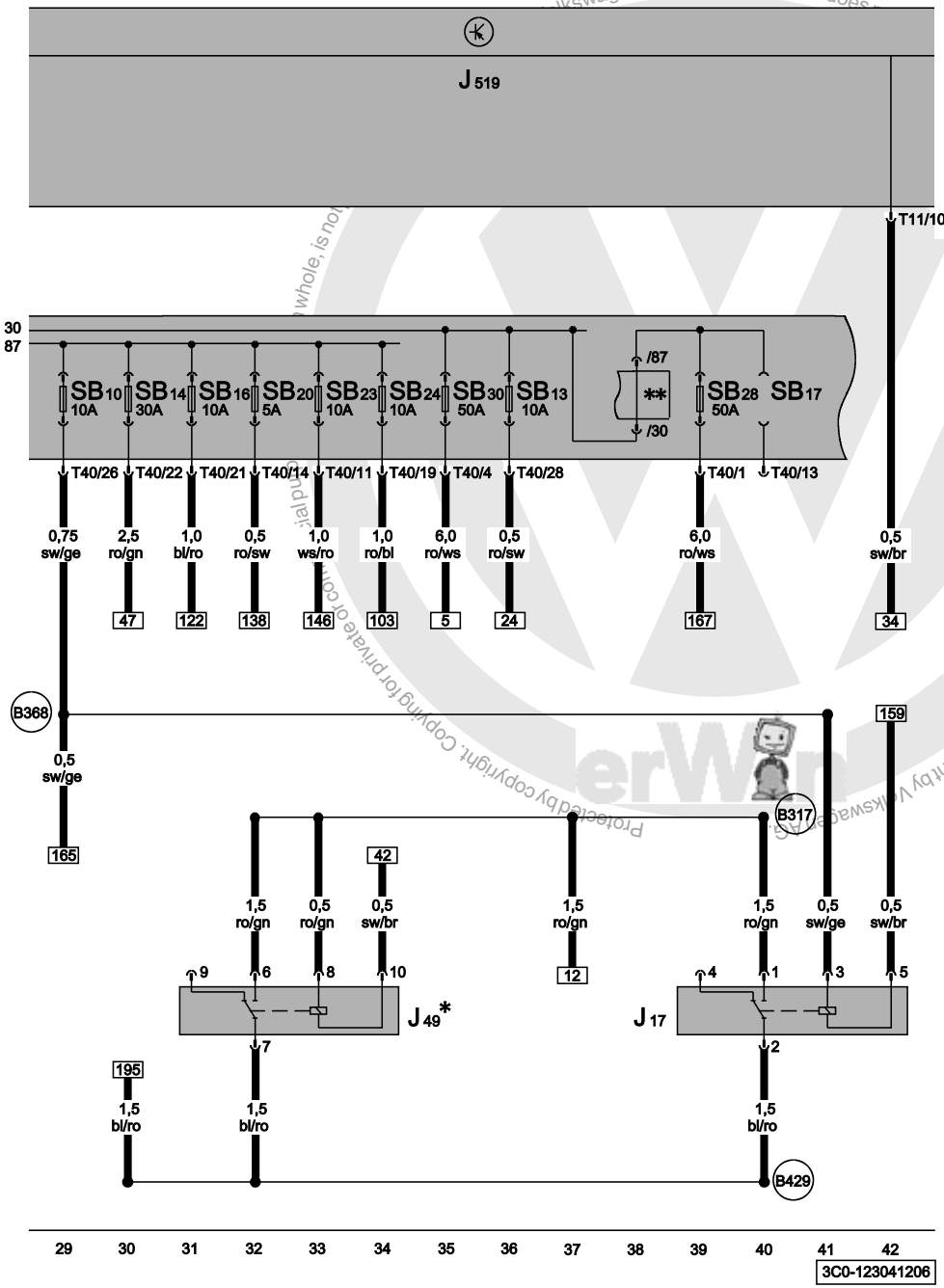
Alternator, terminal 30 voltage supply relay, fuses SA, fuse 1 (30)

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 180 A alternator
**	Only models with 140 A alternator



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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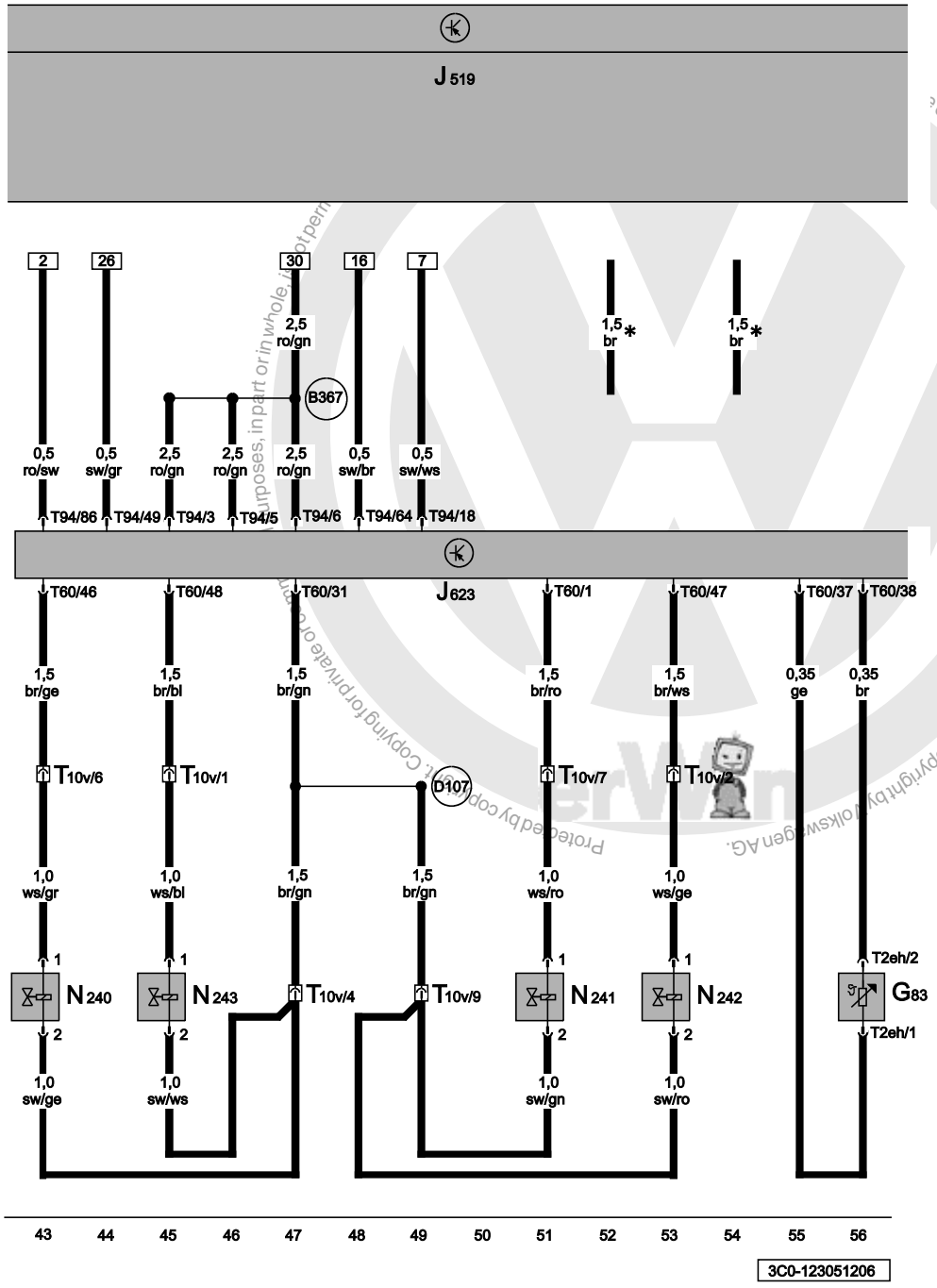


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Fuel pump relay, electric fuel pump 2 relay, fuses SB

J17	Fuel pump relay, on relay carrier on left under dash panel (404)
J49	Electric fuel pump 2 relay, on relay carrier on left under dash panel (404)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only models with auxiliary coolant heater
**	Push-in bridge on relay slot R1

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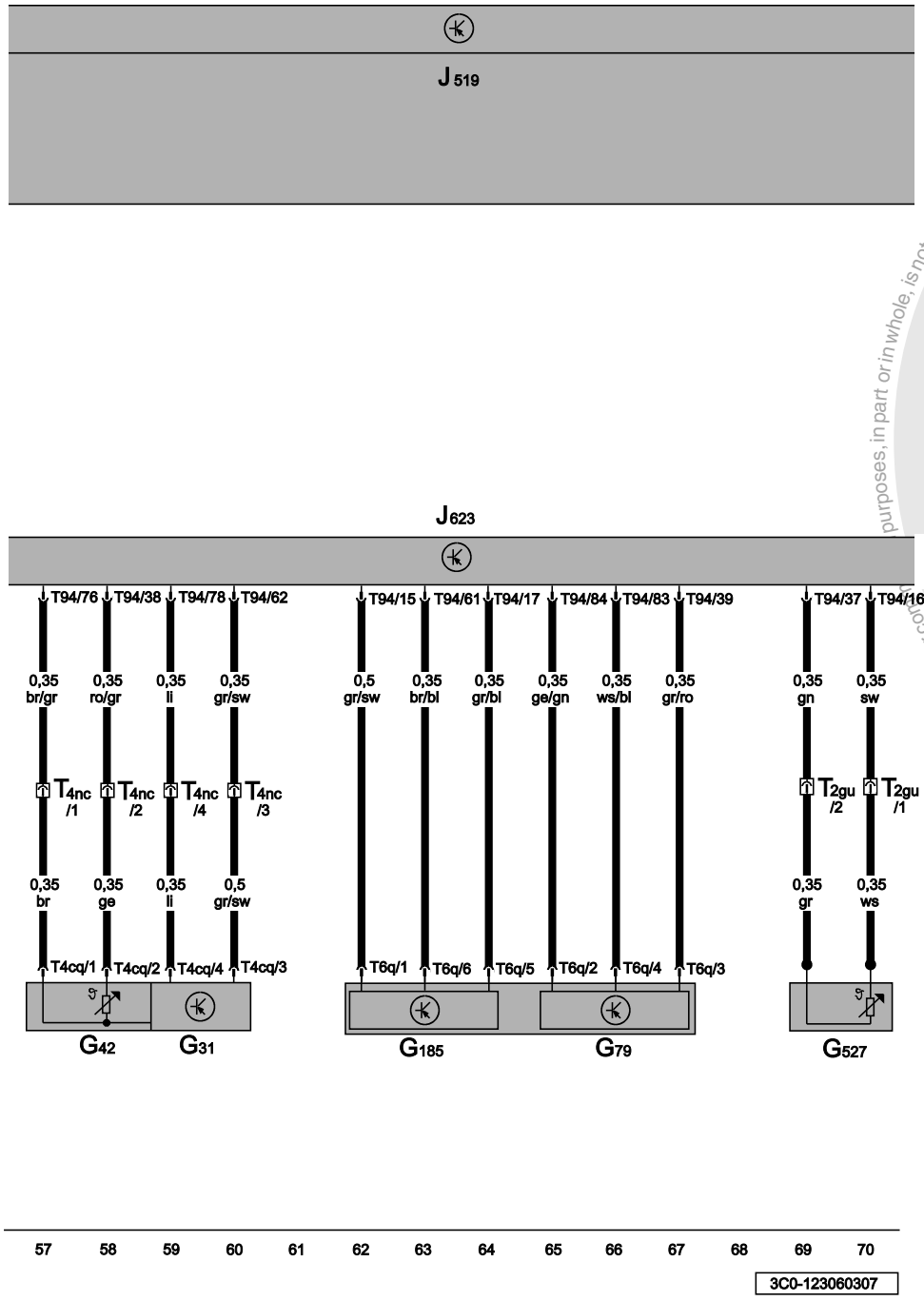


Engine control unit, radiator outlet coolant temperature sender, unit injector valves for cylinders 1-4

G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N240	Unit injector valve of cylinder 1
N241	Unit injector valve of cylinder 2
N242	Unit injector valve of cylinder 3
N243	Unit injector valve of cylinder 4
T2eh	2-pin connector
T10v	10-pin connector, on left of cylinder head
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D107	Connection 5, in engine compartment wiring harness
*	Unassigned wire

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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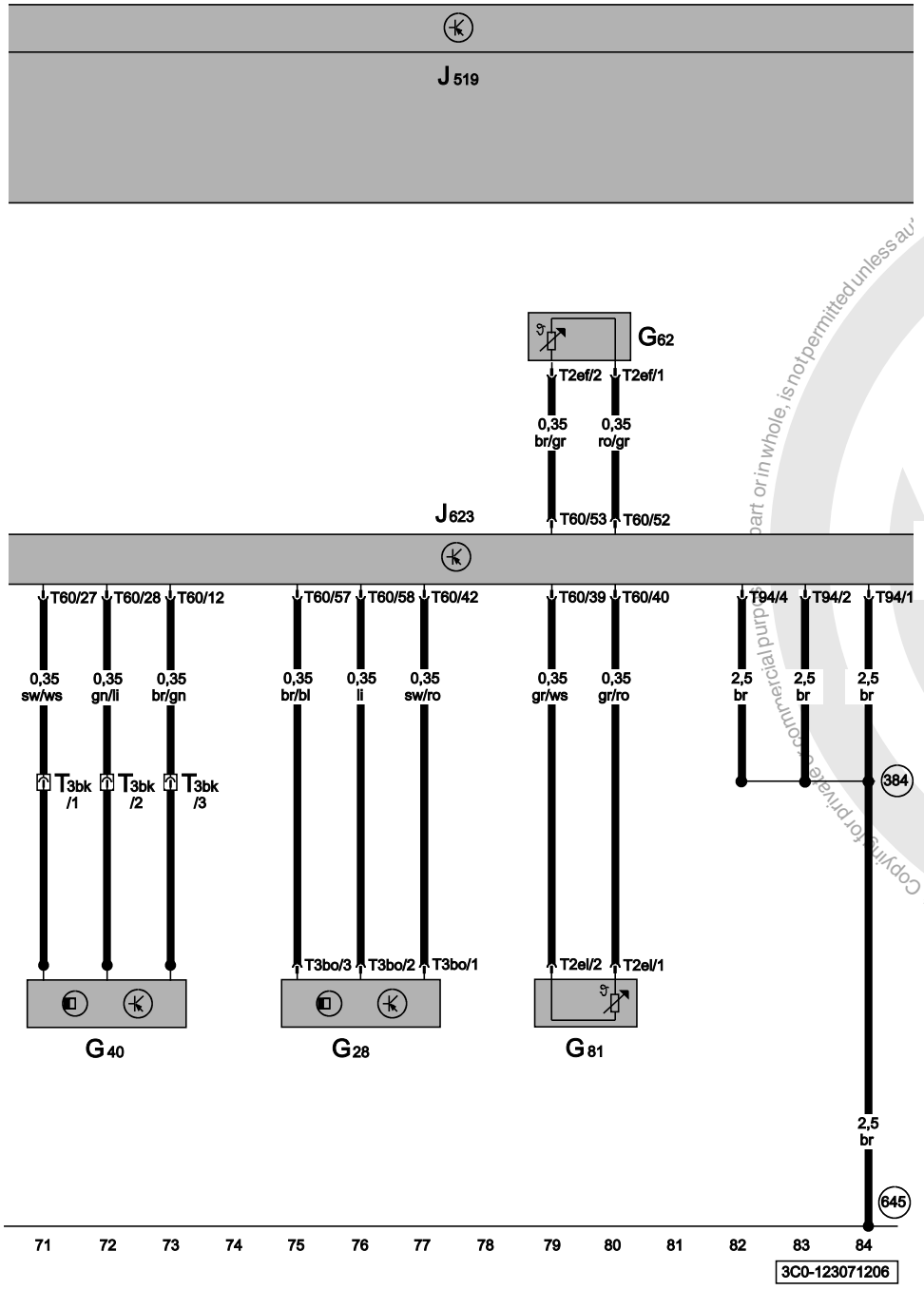


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender, temperature sender after particulate filter

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G527	Temperature sender after particulate filter
J519	Onboard supply control unit
J623	Engine control unit
T2gu	2-pin connector
T4cq	4-pin connector
T4nc	4-pin connector, near starter
T6q	6-pin connector
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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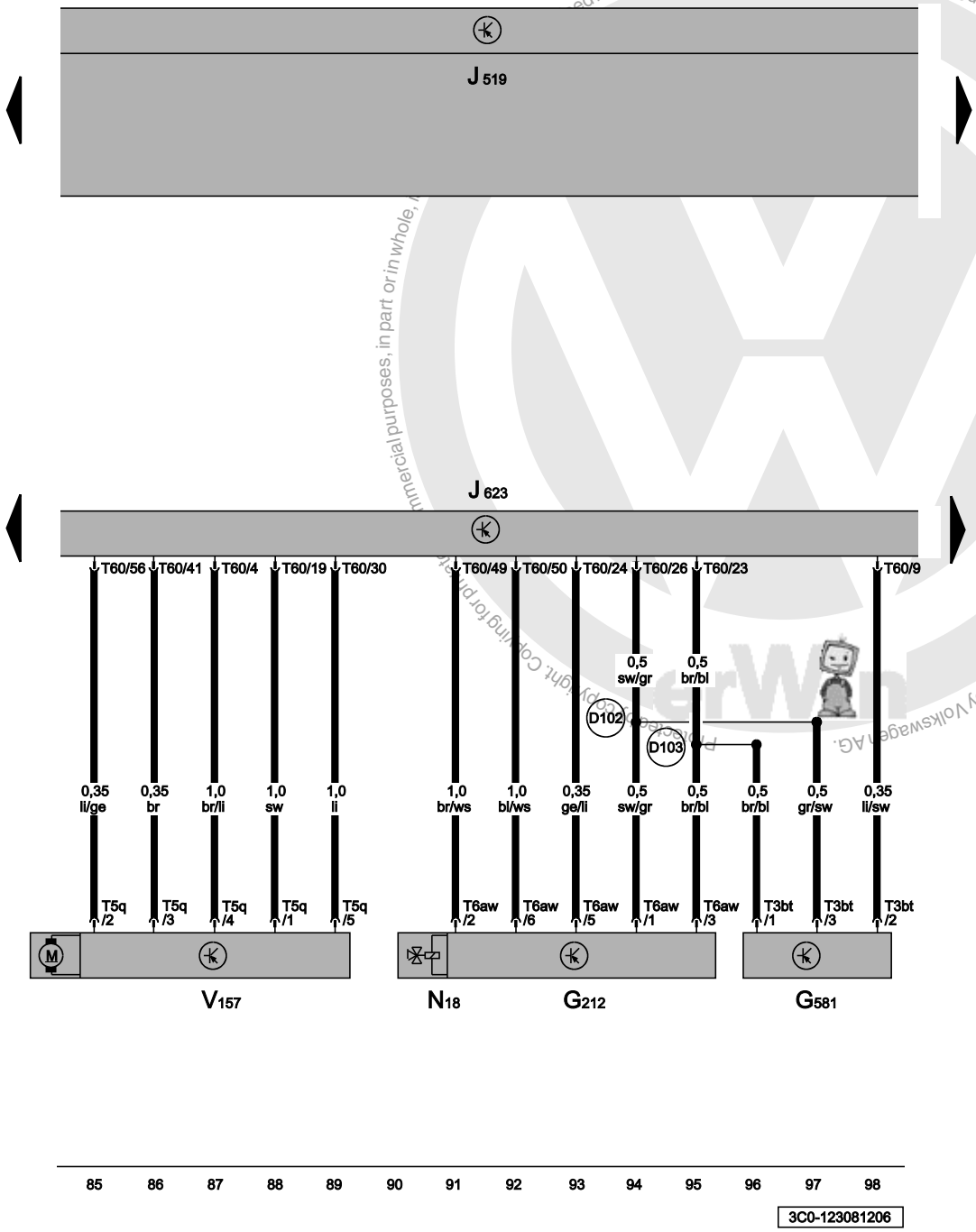
Engine control unit, engine speed sender, Hall sender, fuel temperature sender, coolant temperature sender

G28	Engine speed sender
G40	Hall sender
G62	Coolant temperature sender
G81	Fuel temperature sender
J519	Onboard supply control unit
J623	Engine control unit
T2ef	2-pin connector
T2el	2-pin connector, black
T3bk	3-pin connector, black
T3bo	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
384	Earth connection 19, in main wiring harness
645	Earth point 1, on bulkhead

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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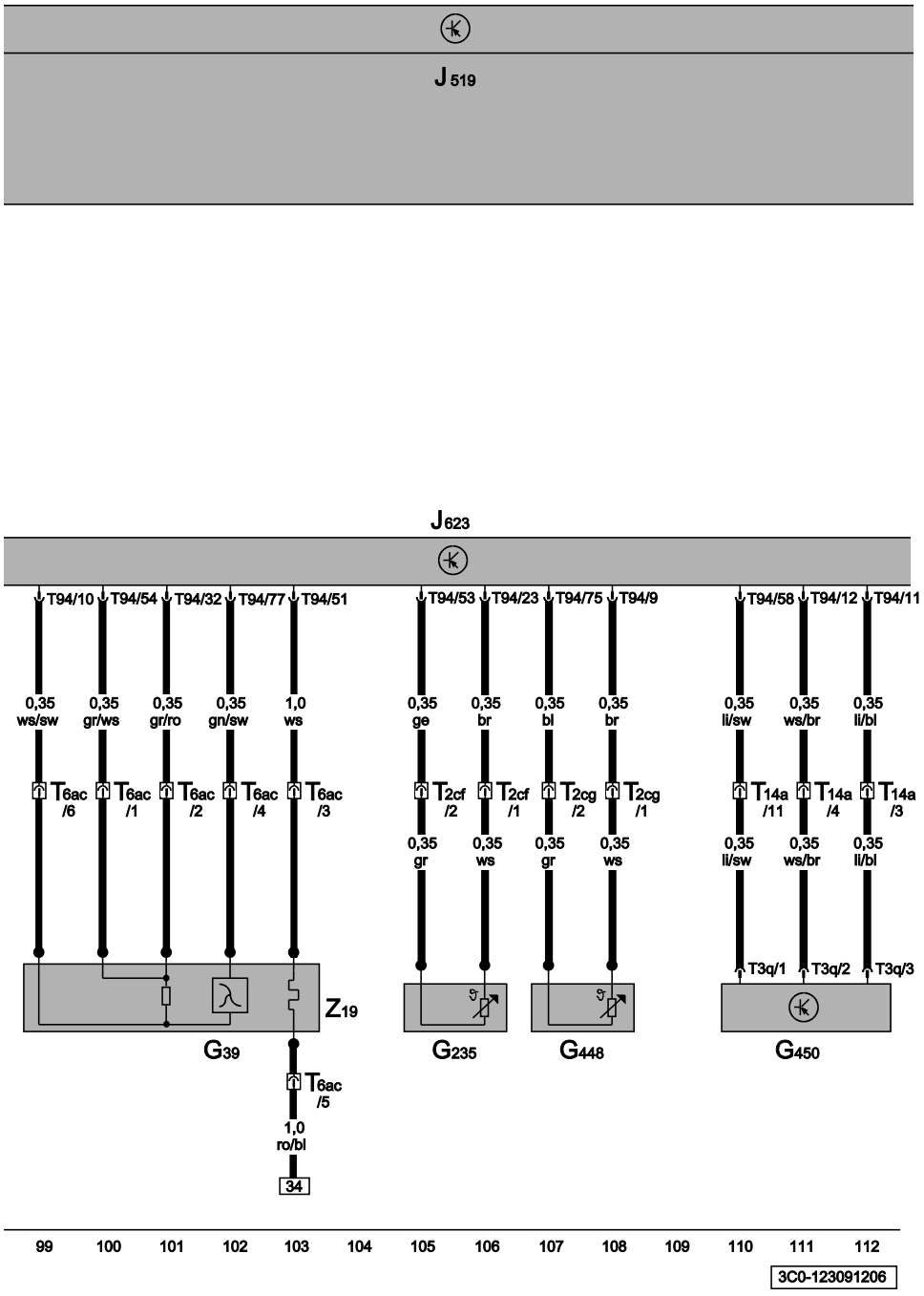
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Engine control unit, intake manifold flap motor, exhaust gas recirculation potentiometer, exhaust gas recirculation valve, position sender for charge pressure positioner

G212	Exhaust gas recirculation potentiometer
G581	Position sender for charge pressure positioner
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
T3bt	3-pin connector
T5q	5-pin connector
T6aw	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor
D102	Connection 2, in engine compartment wiring harness
D103	Connection 3, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

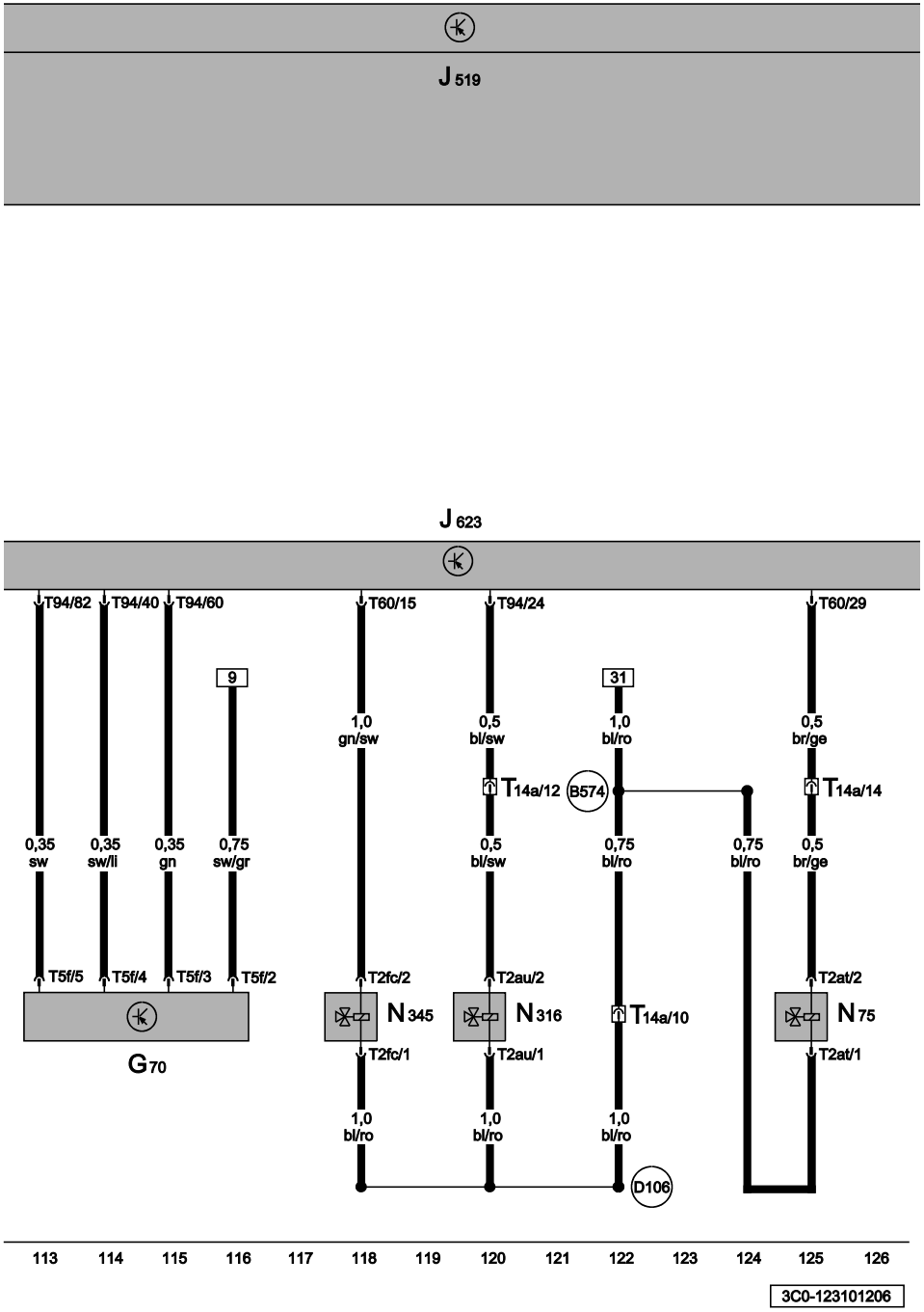


Engine control unit, Lambda probe, exhaust gas pressure sensor 1, exhaust gas temperature sender 1, exhaust gas temperature sender 2 for bank 1

G39	Lambda probe
G235	Exhaust temperature sender 1
G448	Exhaust gas temperature sender 2 for bank 1
G450	Exhaust gas pressure sensor 1
J519	Onboard supply control unit
J623	Engine control unit
T2cf	2-pin connector
T2cg	2-pin connector
T3q	3-pin connector
T6ac	6-pin connector, black, coupling point for Lambda probe
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T94	94-pin connector
Z19	Lambda probe heater

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or	=	orange
rs	=	pink

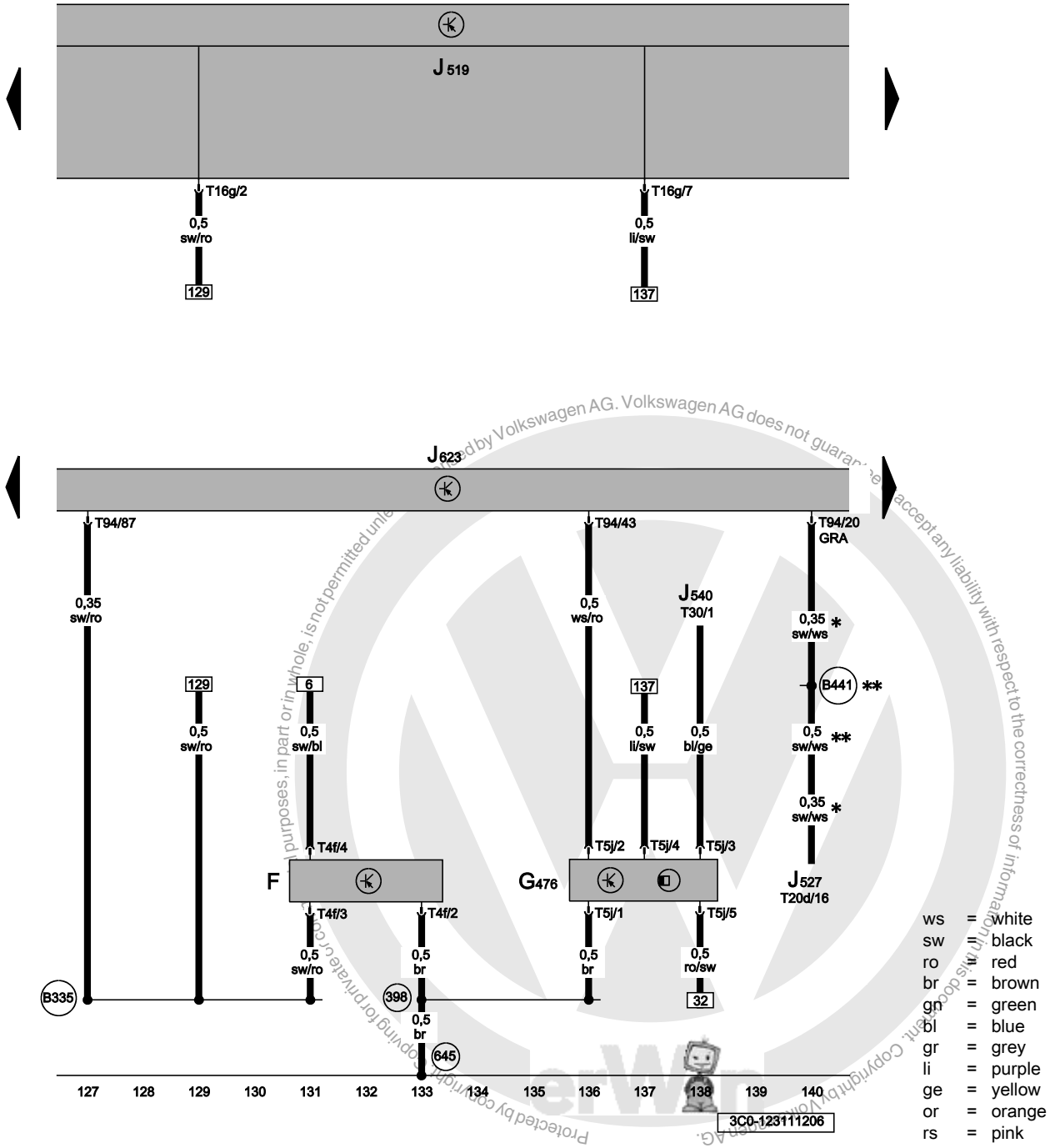


Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler changeover valve, intake manifold flap valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N316	Intake manifold flap valve
N345	Exhaust gas recirculation cooler changeover valve
T2au	2-pin connector
T2at	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness
D106	Connection 4, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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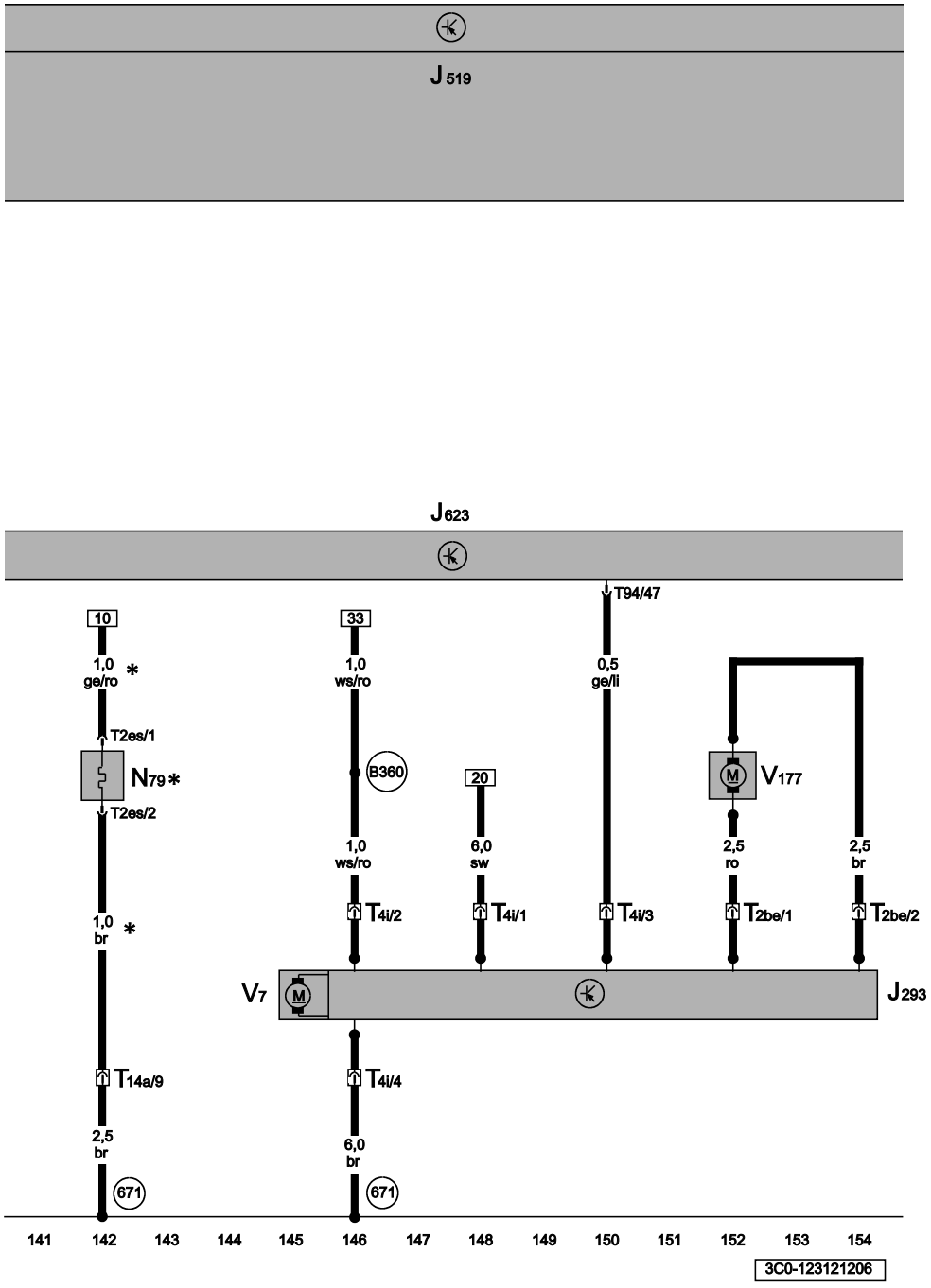


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, clutch position sender, brake light switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

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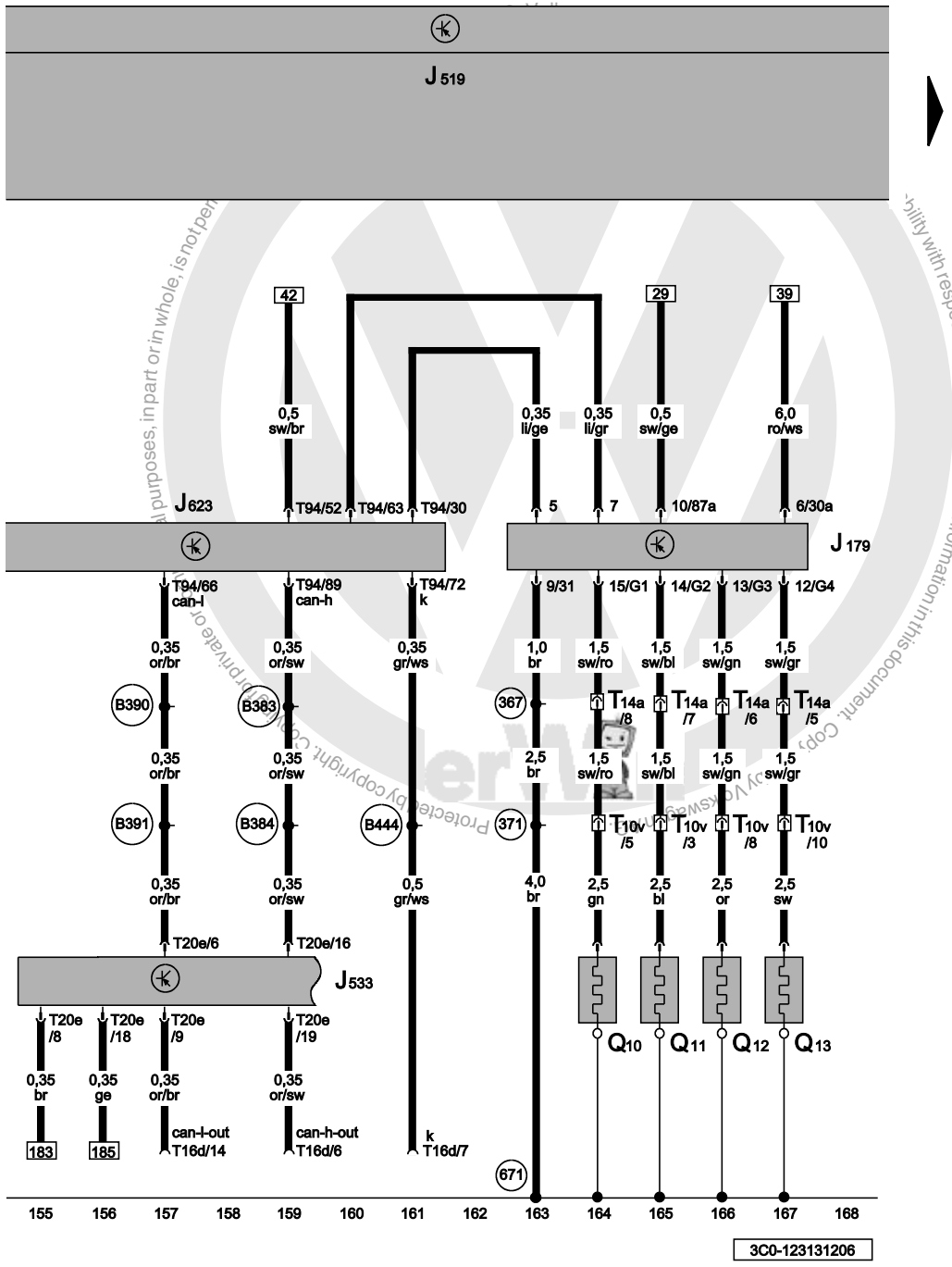


Engine control unit, crankcase breather heater element, radiator fan

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
T2es	2-pin connector
T2be	2-pin connector, on lock carrier
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B360	Connection 11 (87a), in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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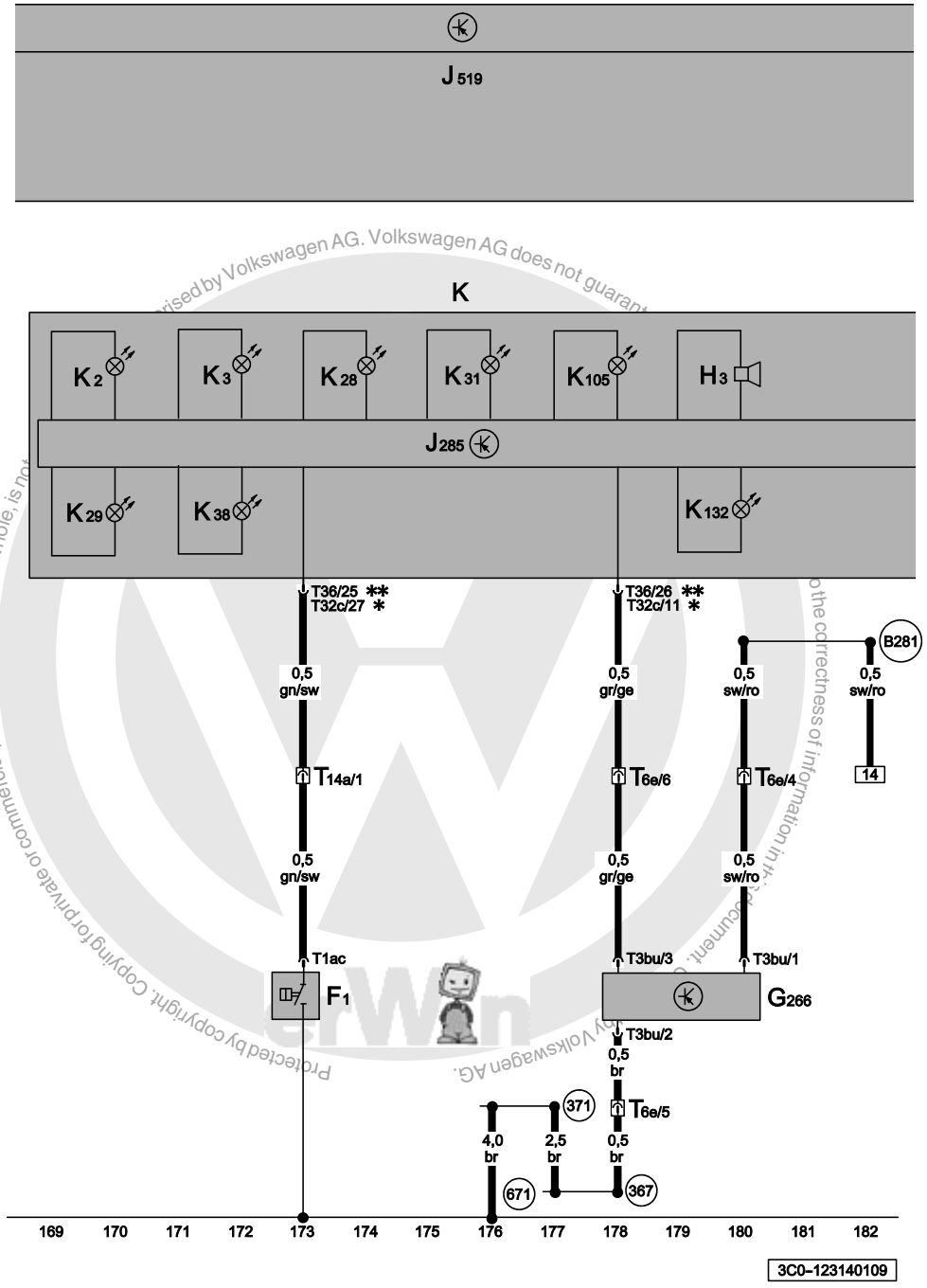


Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T10v	10-pin connector, on left of cylinder head
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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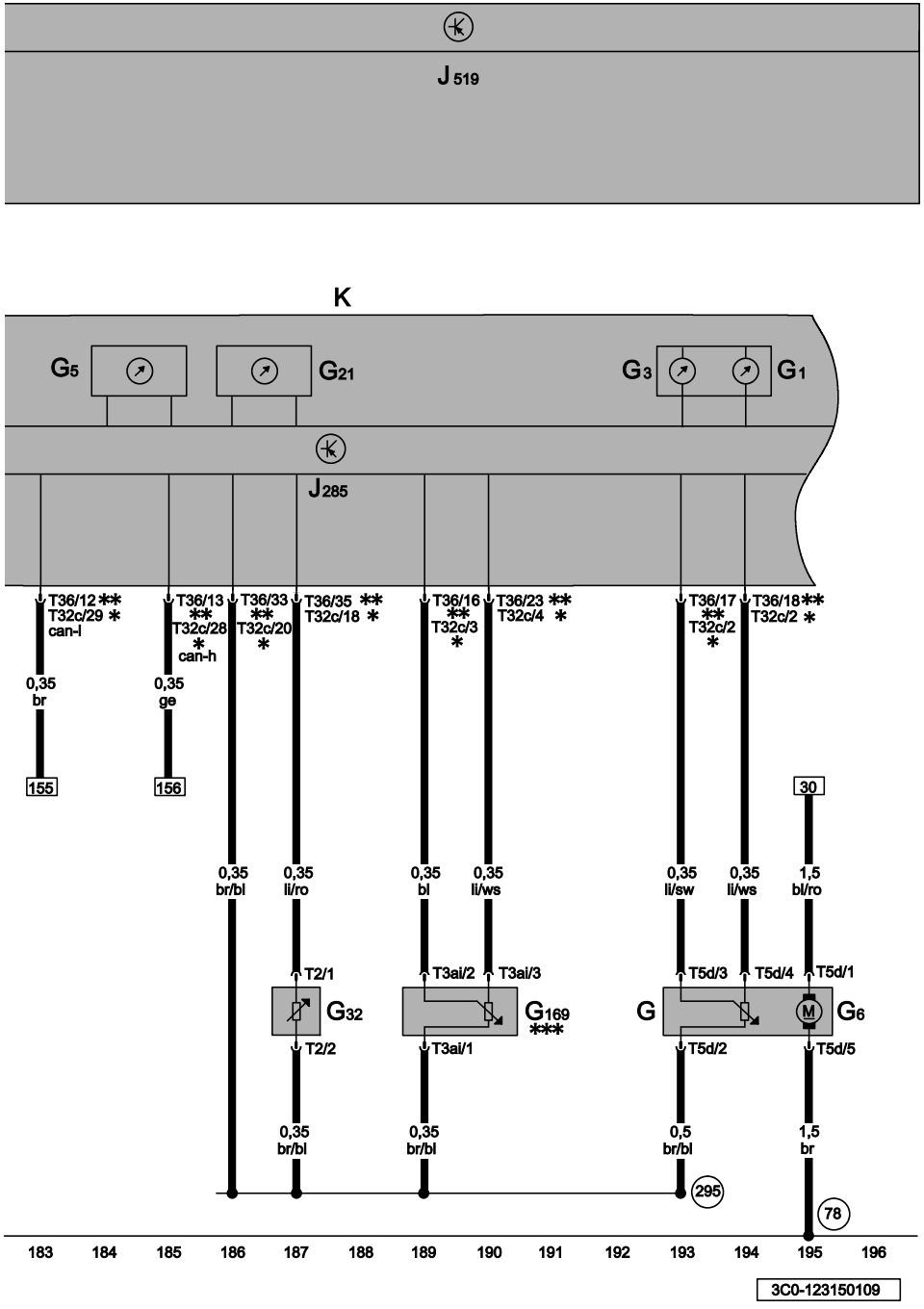


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Dash panel insert, rev counter, speedometer, coolant temperature gauge, fuel system pressurisation pump, fuel gauge

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T32c	32-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008
***	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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1.9 l/77 kW - turbo diesel, engine code BLS

From November 2006

2.0 l/103 kW - turbo diesel, engine code BMP

From November 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

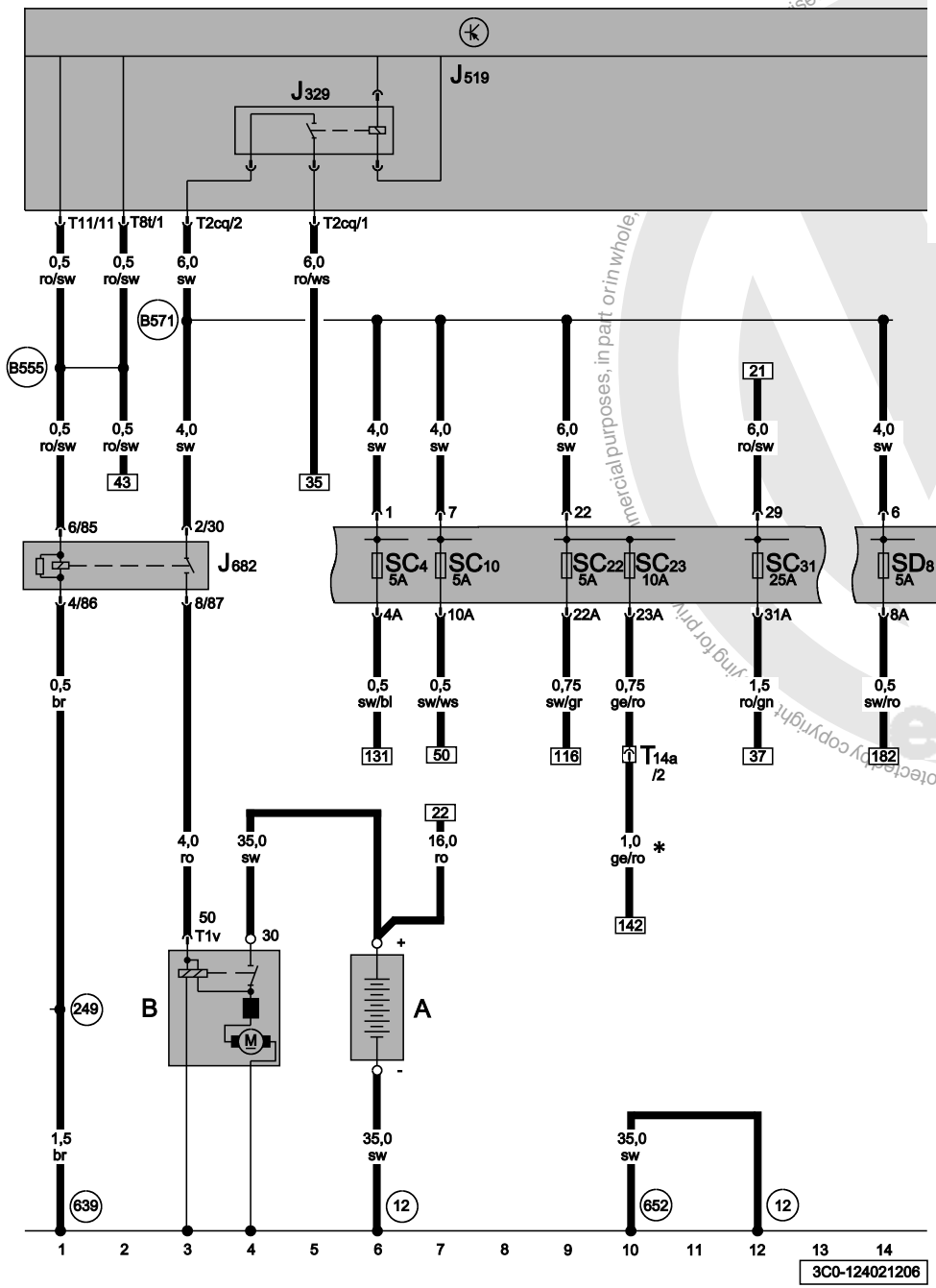
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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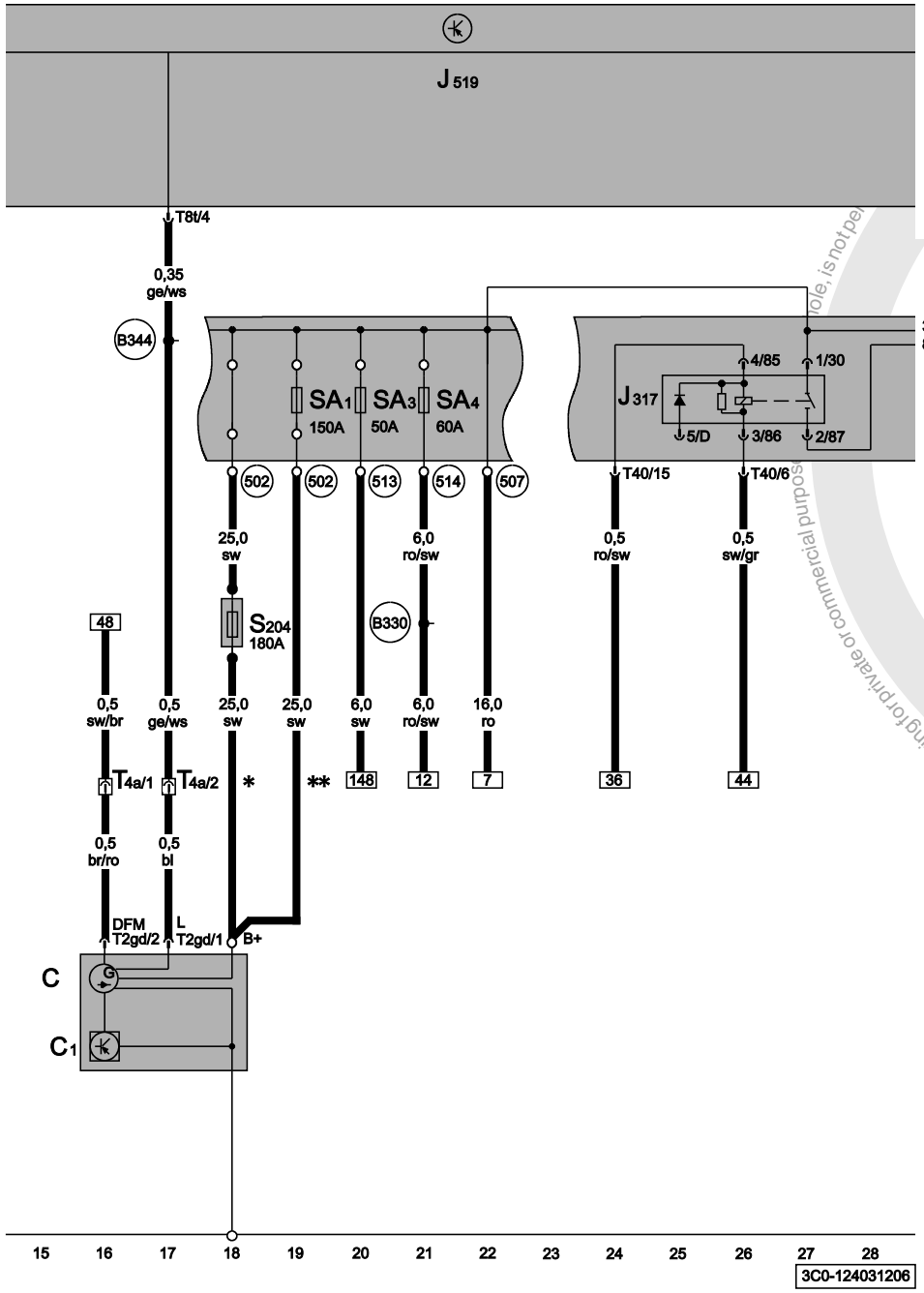
Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
J329	Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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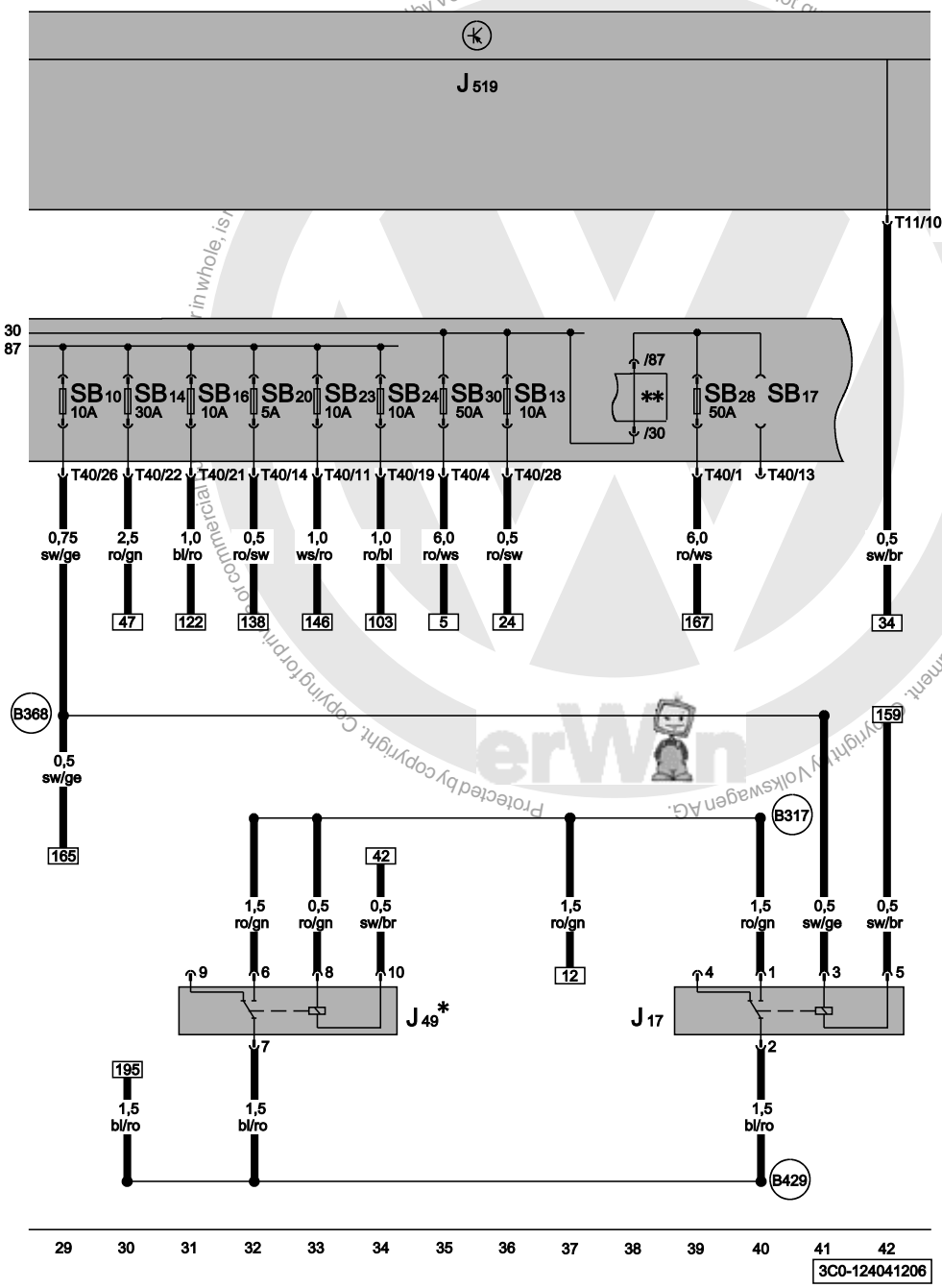
Alternator, terminal 30 voltage supply relay, fuses SA, fuse 1 (30)



C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 180 A alternator
**	Only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
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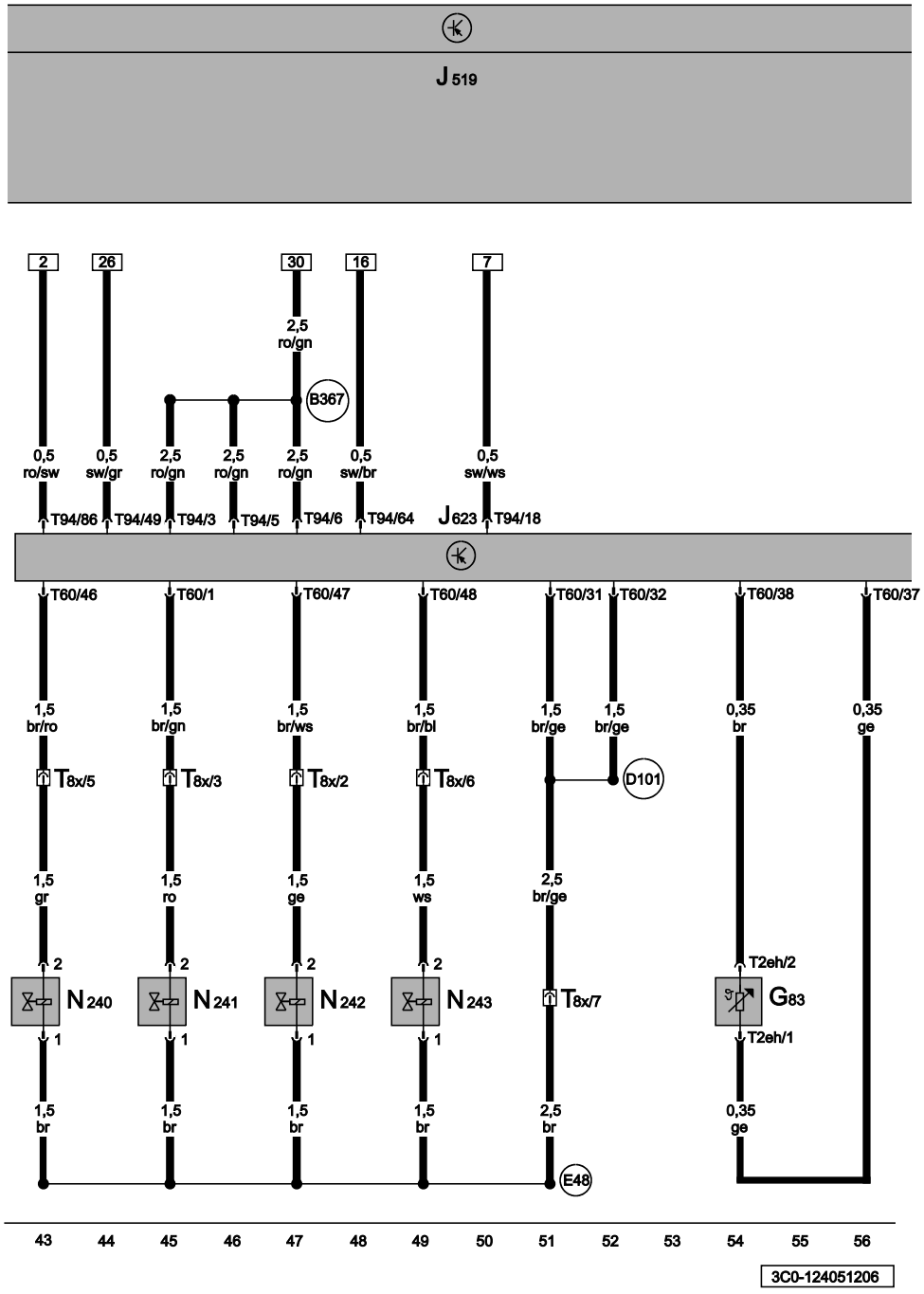


Fuel pump relay, electric fuel pump 2 relay, fuses SB

J17	Fuel pump relay, on relay carrier on left under dash panel (404)
J49	Electric fuel pump 2 relay, on relay carrier on left under dash panel (404)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only models with auxiliary coolant heater
**	Push-in bridge on relay slot R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
rs	=	pink

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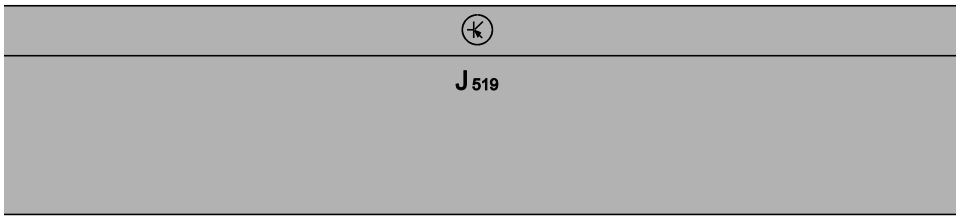


Engine control unit, radiator outlet coolant temperature sender, unit injector valves for cylinders 1-4

G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N240	Unit injector valve of cylinder 1
N241	Unit injector valve of cylinder 2
N242	Unit injector valve of cylinder 3
N243	Unit injector valve of cylinder 4
T2eh	2-pin connector
T8x	8-pin connector, near injectors
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

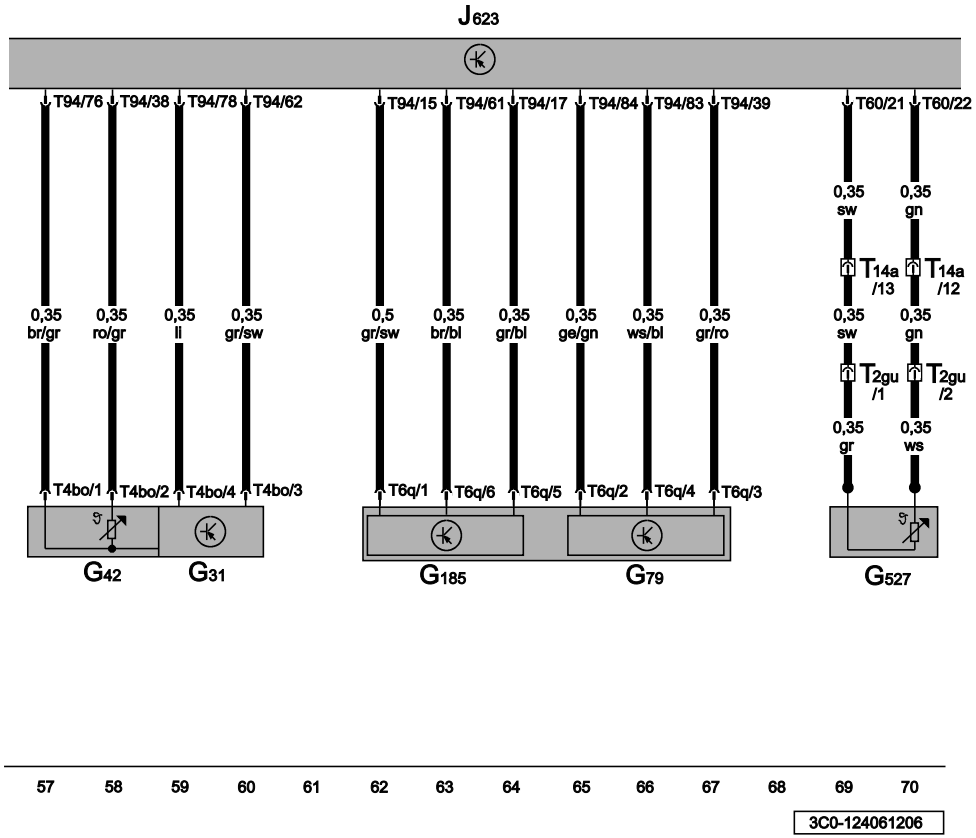
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ro	=	red
br	=	brown
gn	=	green
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or	=	orange
rs	=	pink

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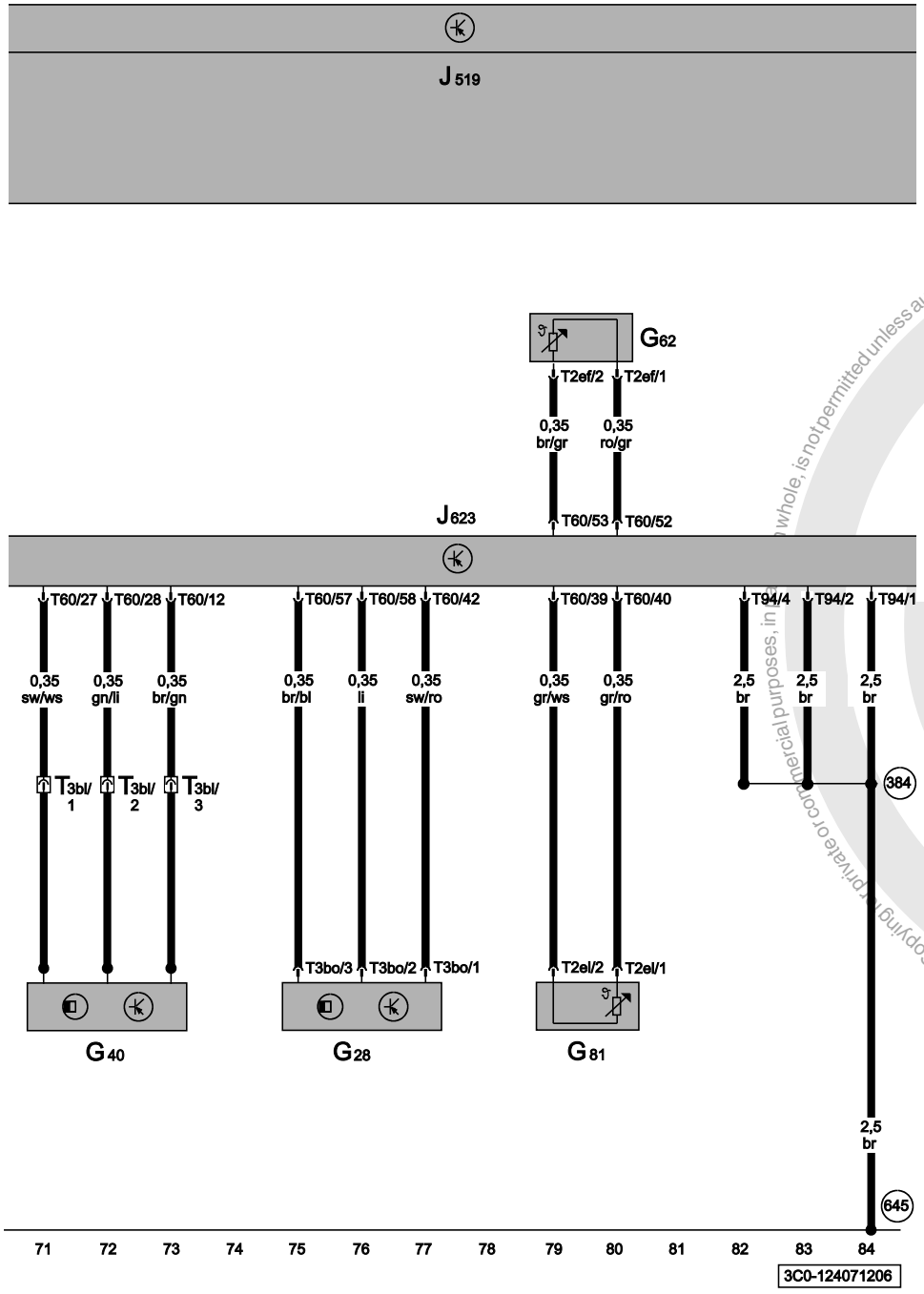
Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender, temperature sender after particulate filter

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G527	Temperature sender after particulate filter
J519	Onboard supply control unit
J623	Engine control unit
T2gu	2-pin connector
T4bo	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
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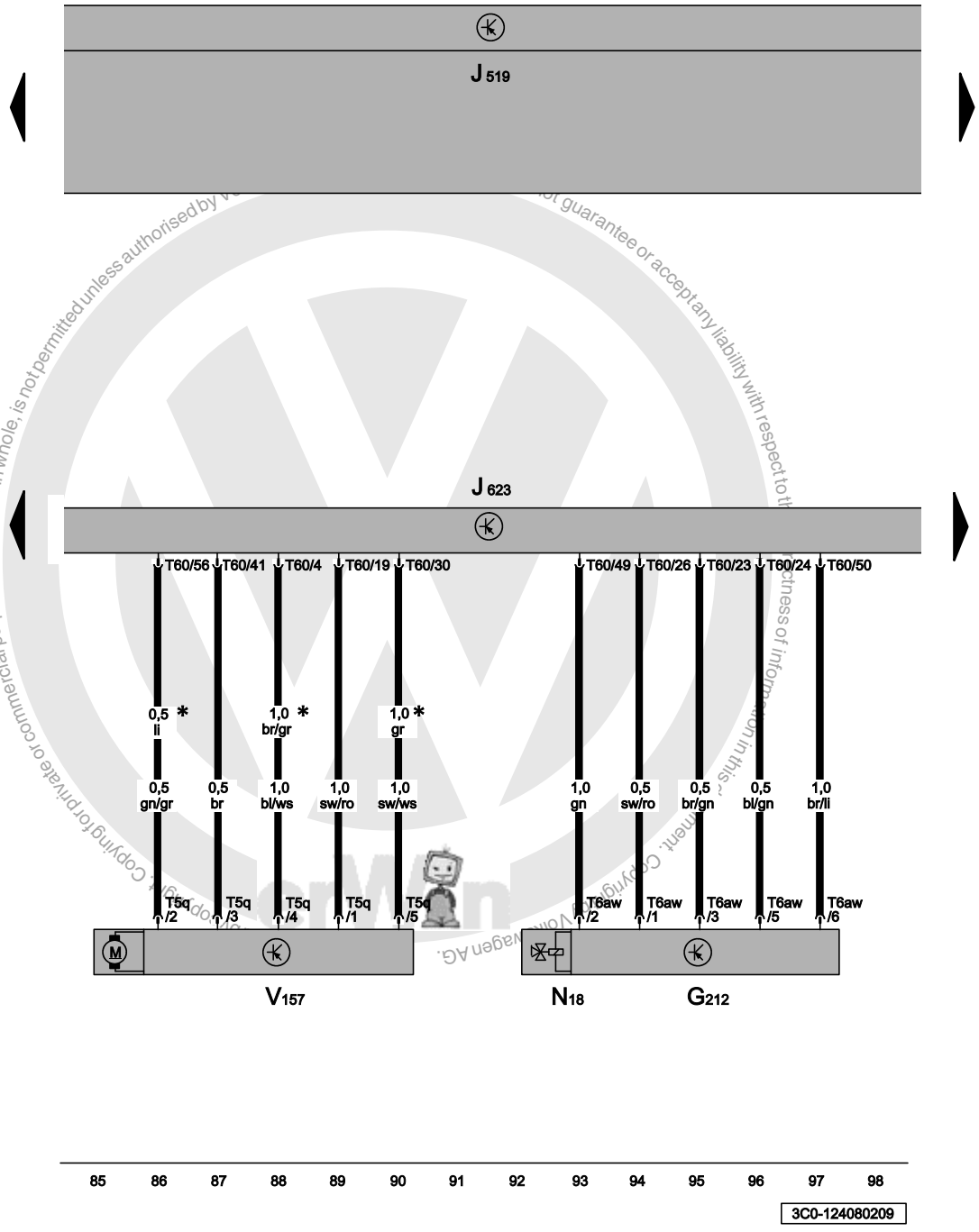


Engine control unit, engine speed sender, Hall sender, fuel temperature sender, coolant temperature sender

G28	Engine speed sender
G40	Hall sender
G62	Coolant temperature sender
G81	Fuel temperature sender
J519	Onboard supply control unit
J623	Engine control unit
T2ef	2-pin connector
T2el	2-pin connector, black
T3bl	3-pin connector, black
T3bo	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
(384)	Earth connection 19, in main wiring harness
(645)	Earth point 1, on bulkhead

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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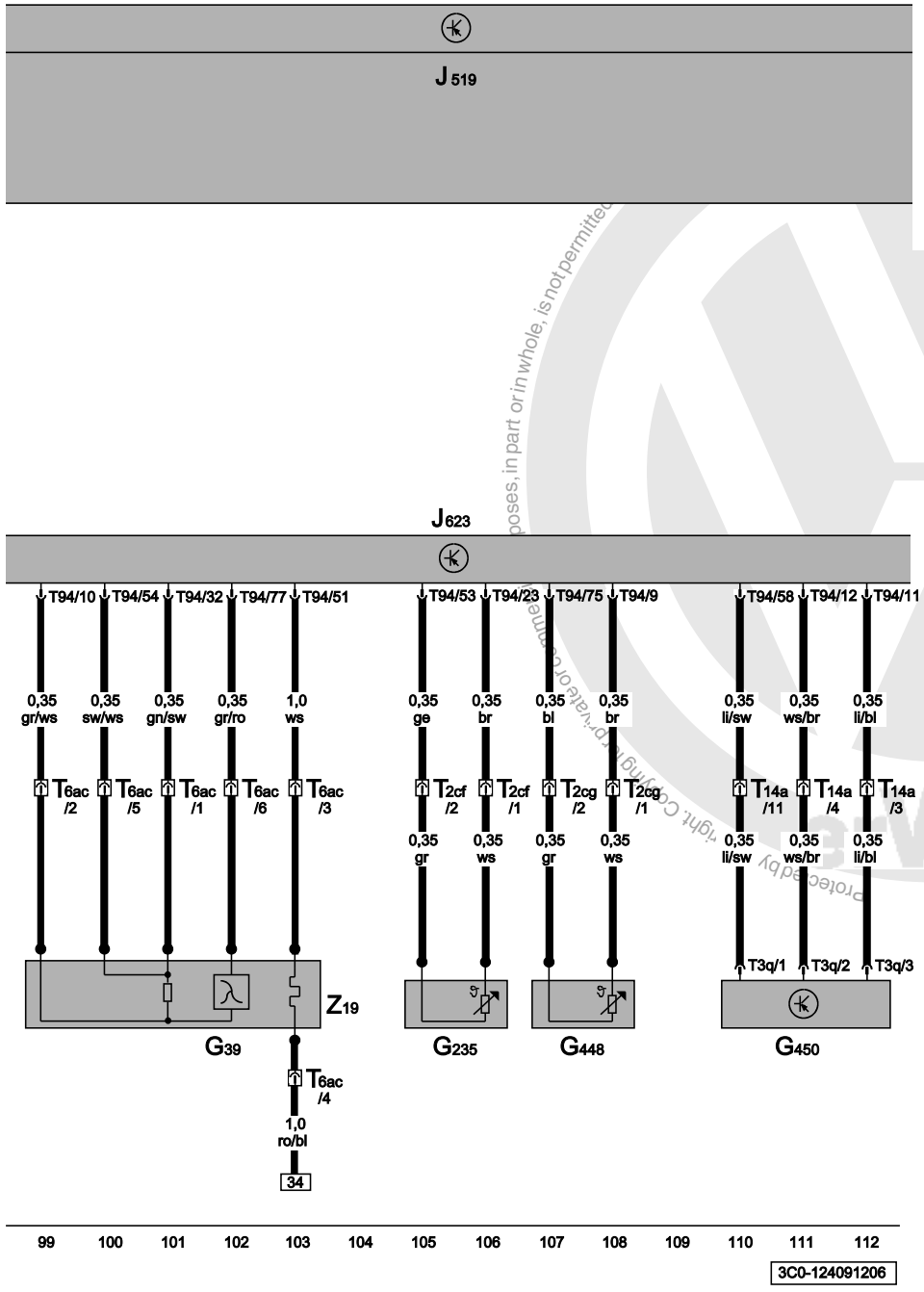


Engine control unit, intake manifold flap motor, exhaust gas recirculation potentiometer, exhaust gas recirculation valve

G212	Exhaust gas recirculation potentiometer
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
T5q	5-pin connector
T6aw	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor
*	Applicable from May 2007

ws	=	white
sw	=	black
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br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Engine control unit, Lambda probe, exhaust gas pressure sensor 1, exhaust gas temperature sender 1, exhaust gas temperature sender 2 for bank 1

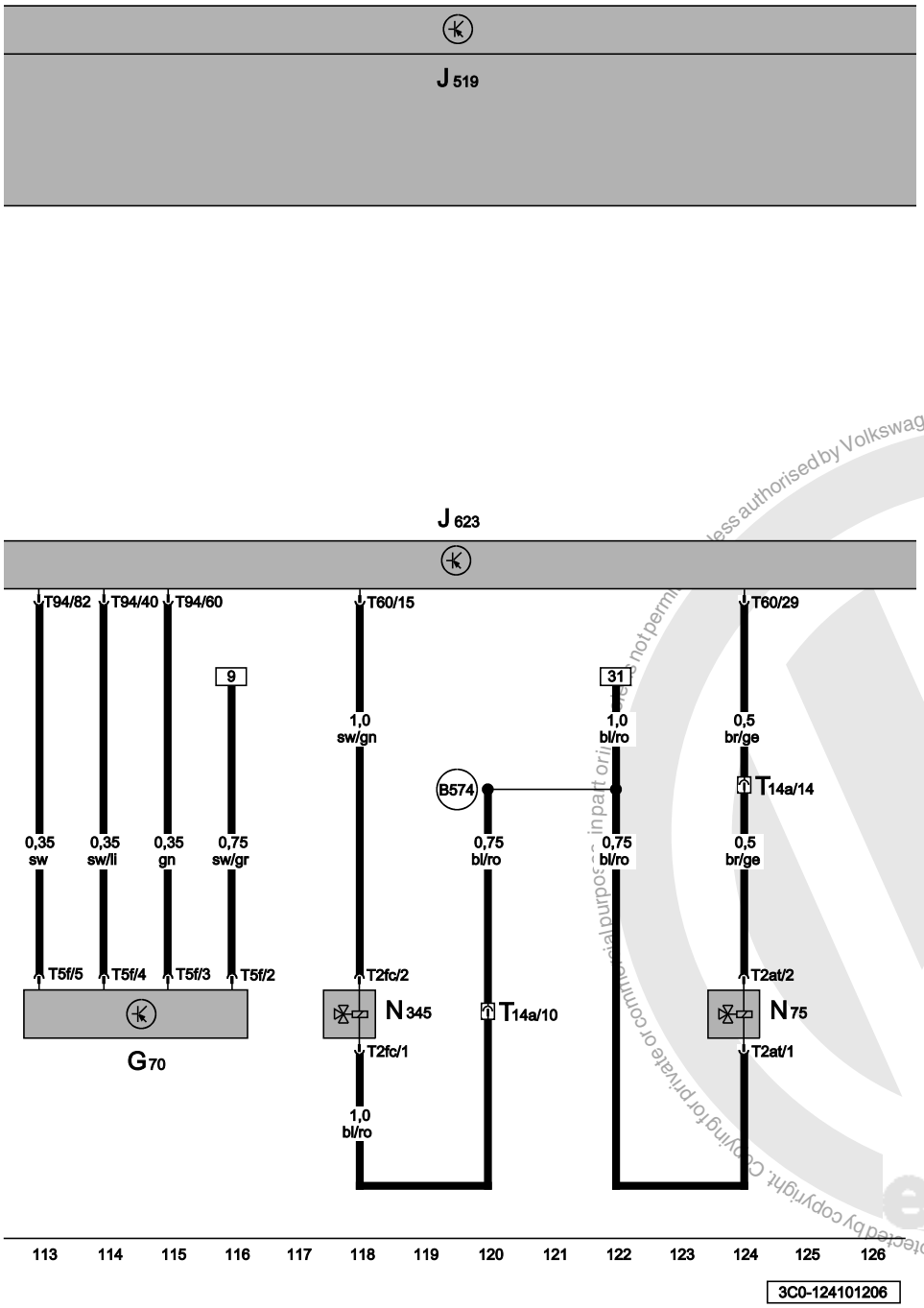
G39	Lambda probe
G235	Exhaust temperature sender 1
G448	Exhaust gas temperature sender 2 for bank 1
G450	Exhaust gas pressure sensor 1
J519	Onboard supply control unit
J623	Engine control unit
T2cf	2-pin connector
T2cg	2-pin connector
T3q	3-pin connector
T6ac	6-pin connector, black, coupling point for Lambda probe
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T94	94-pin connector
Z19	Lambda probe heater

ws	=	white
sw	=	black
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gn	=	green
bl	=	blue
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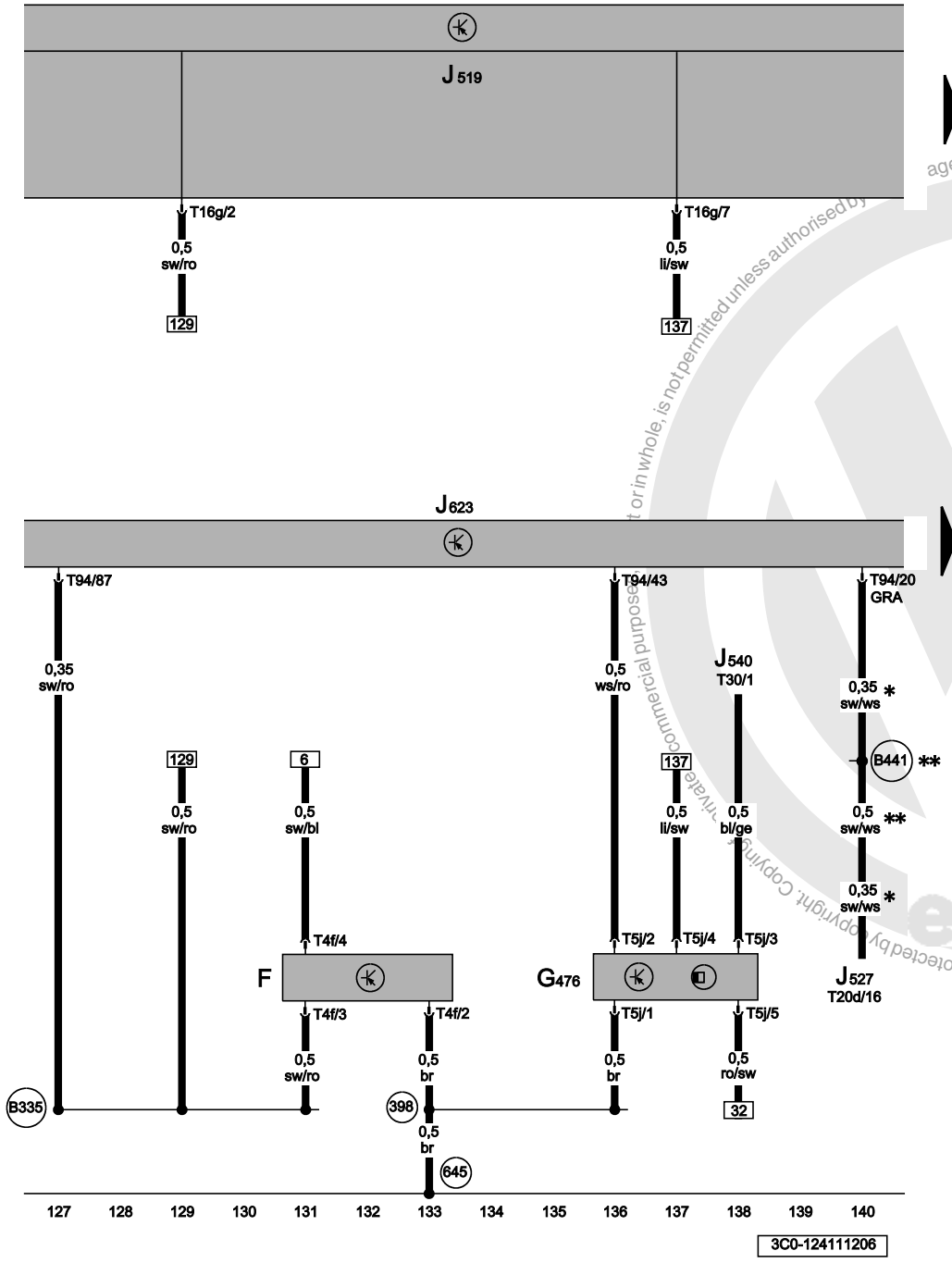
Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler changeover valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler changeover valve
T2at	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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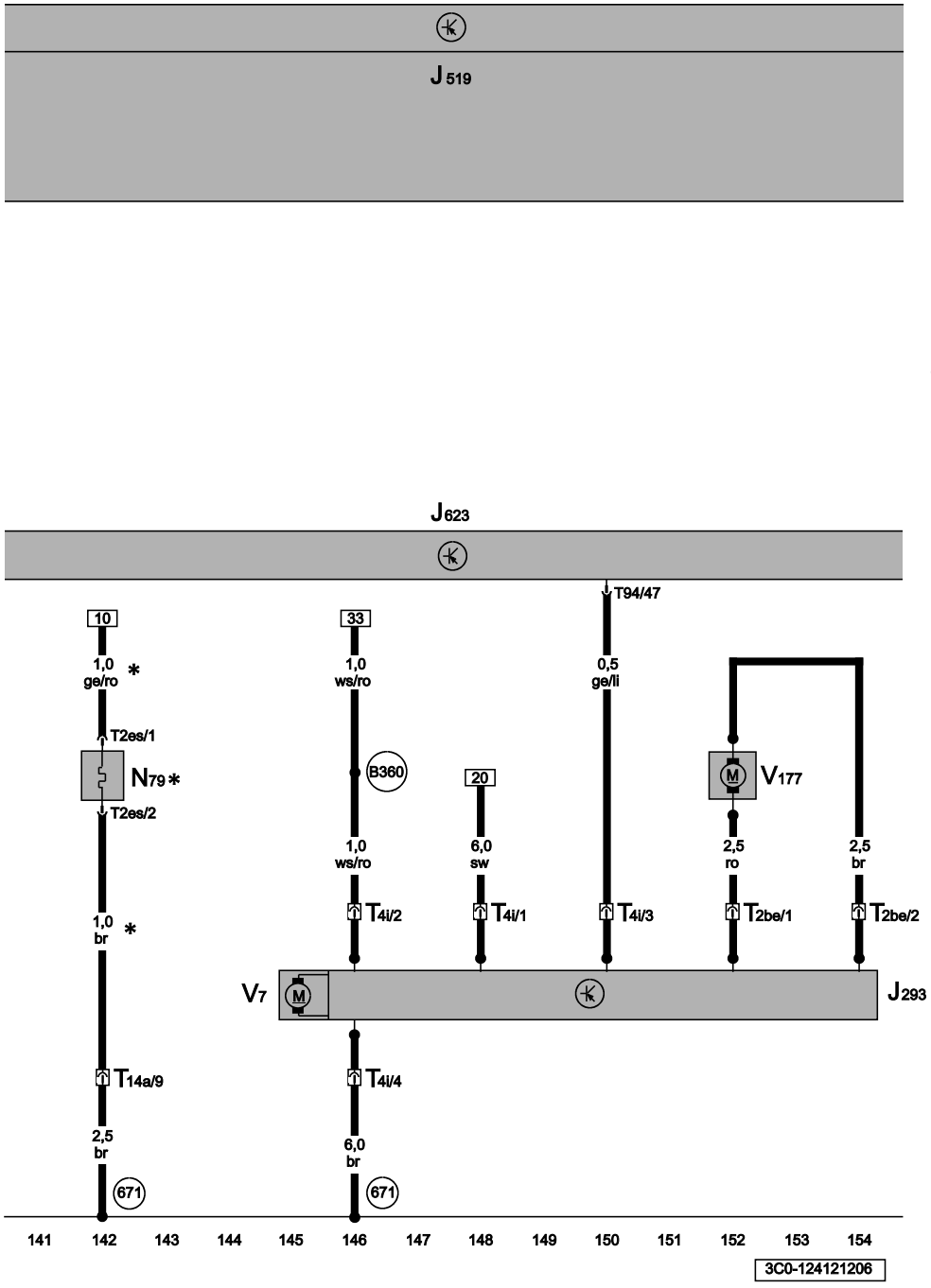


Engine control unit, clutch position sender, brake light switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
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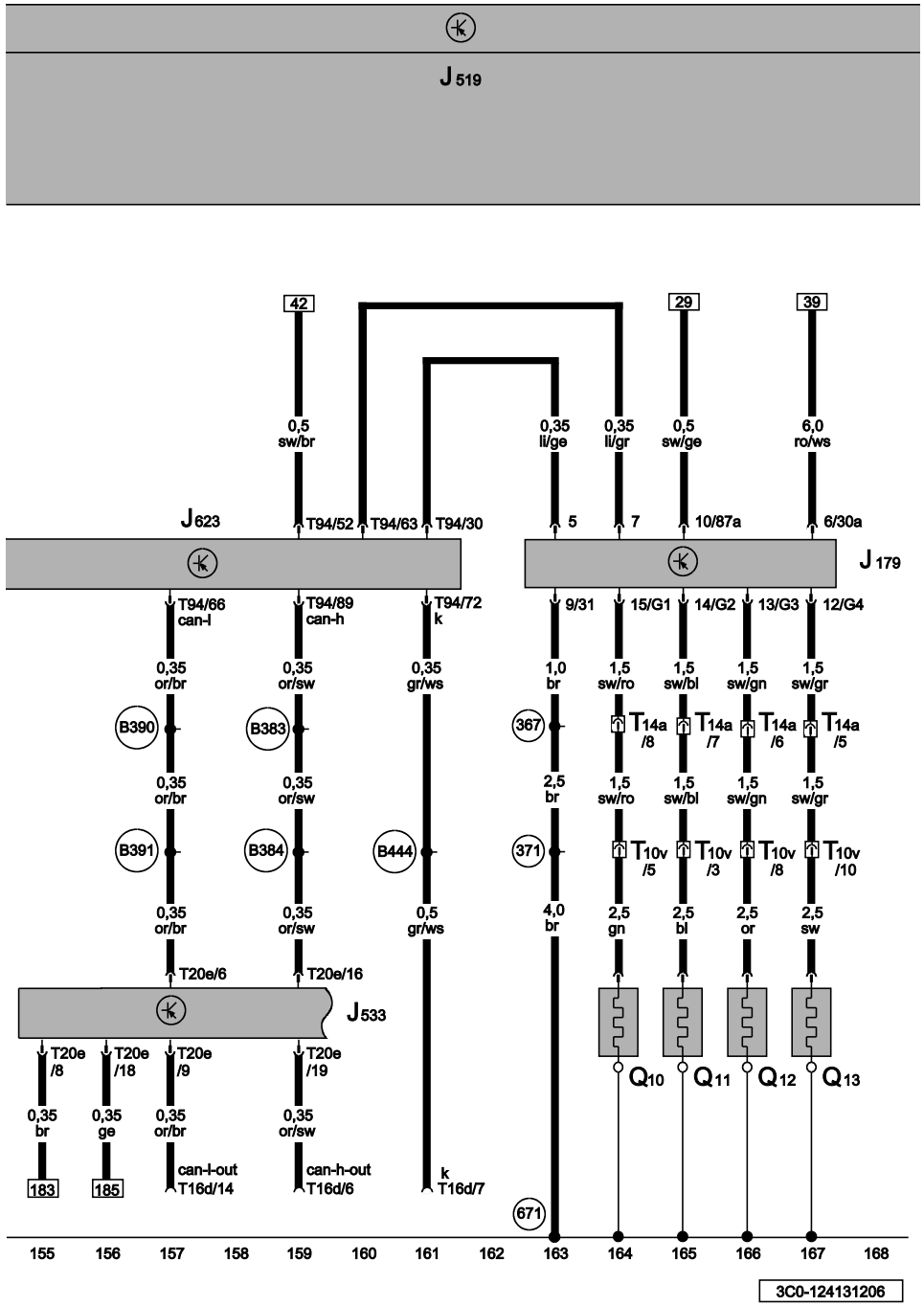


Engine control unit, crankcase breather heater element, radiator fan

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
T2es	2-pin connector
T2be	2-pin connector, on lock carrier
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B360	Connection 11 (87a), in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
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br	=	brown
gn	=	green
bl	=	blue
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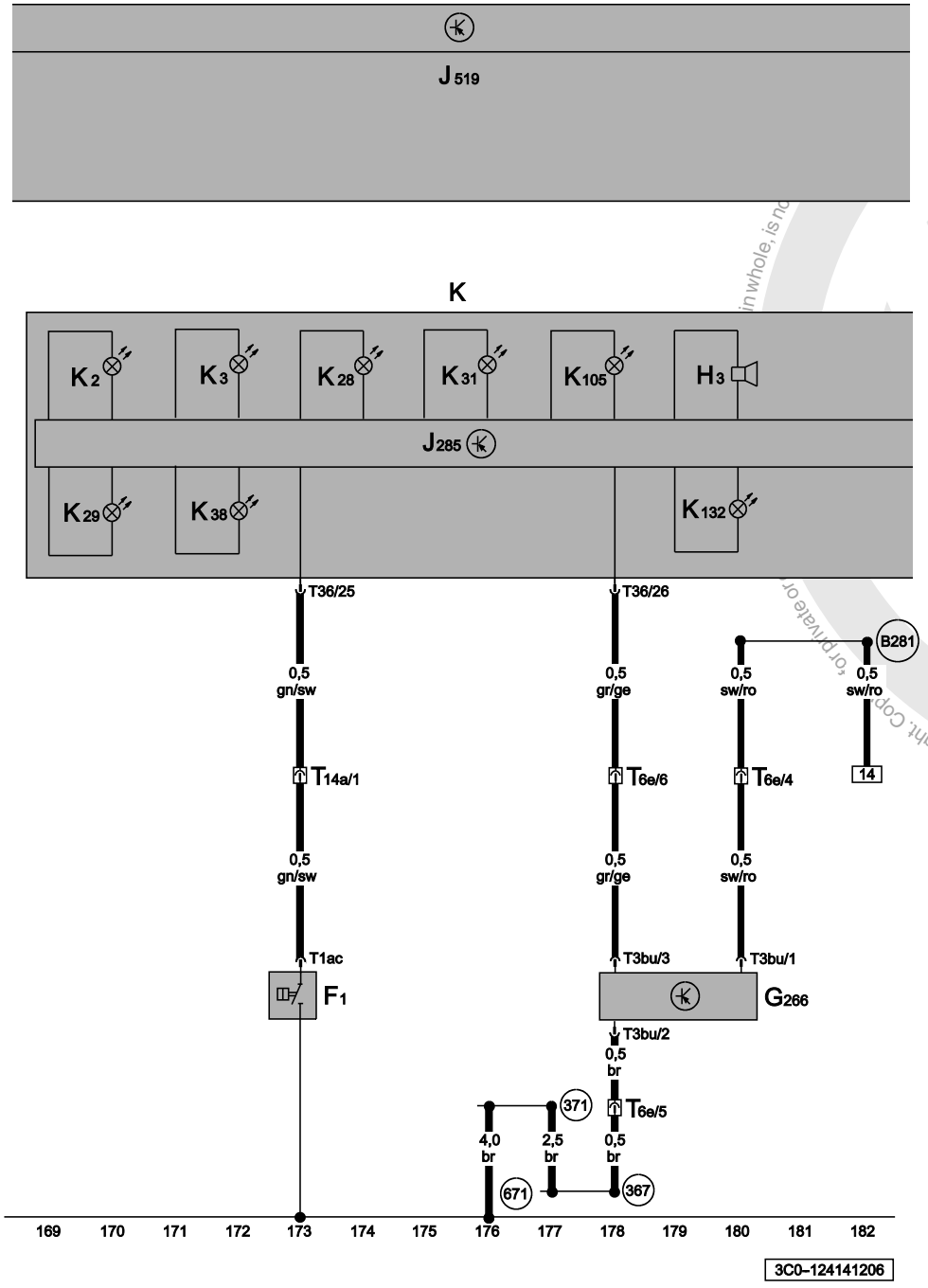


Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T10v	10-pin connector, on left of cylinder head
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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gr	=	grey
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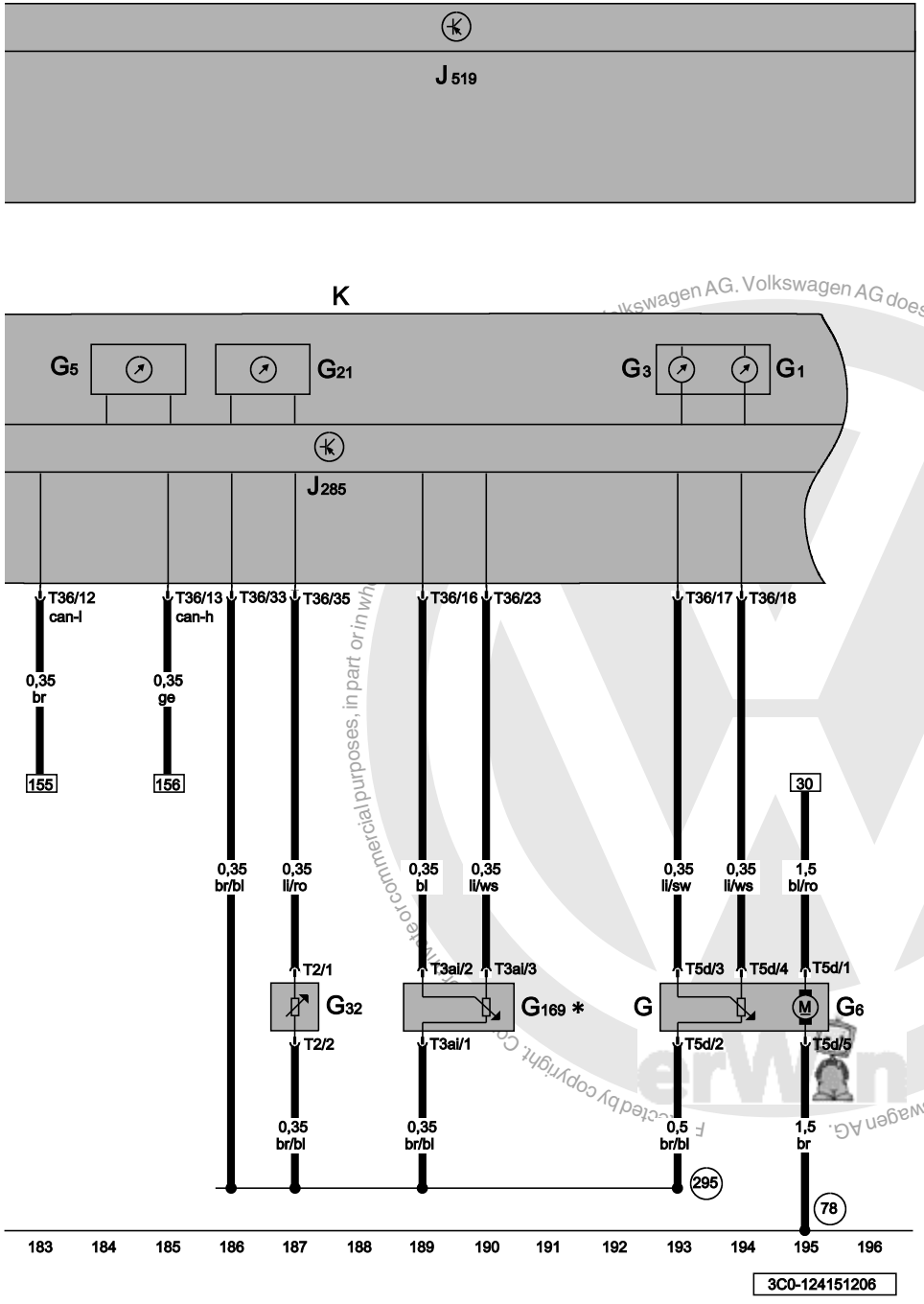


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T36	36-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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Dash panel insert, rev counter, speedometer, coolant temperature gauge, fuel system pressurisation pump, fuel gauge

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
*	Only models with all-wheel drive

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2.0 l/103 kW - Turbodiesel, engine code BKP
From November 2006

2.0 l/100 kW - Turbodiesel, engine code BMA
From November 2006

2.0 l/90 kW - Turbodiesel, engine code BVE
From November 2006

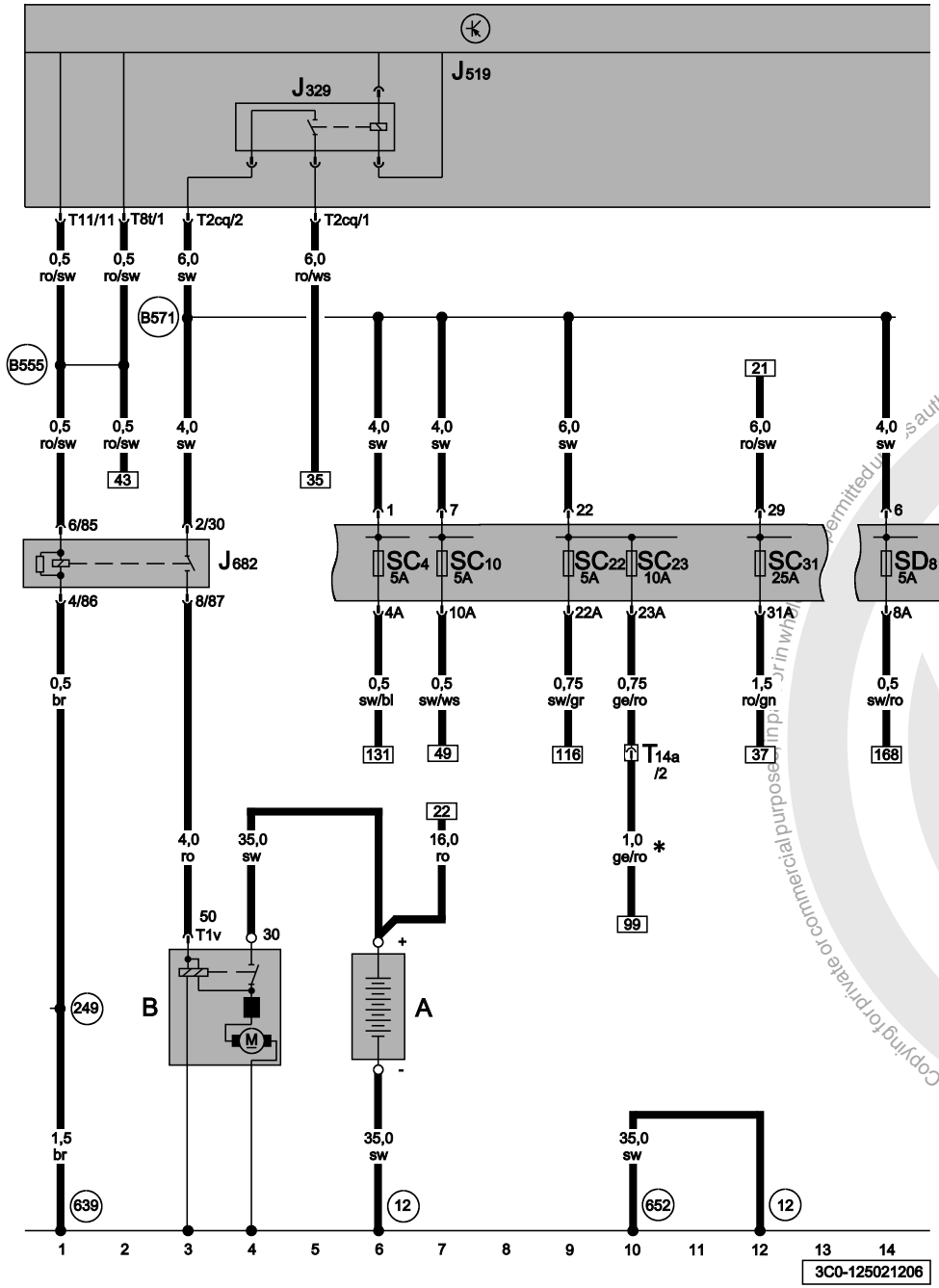
2.0 l/88 kW - Turbodiesel, engine code BWV
From November 2006

Notes:
For information concerning
- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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Battery, starter, terminal 15 voltage supply relay 2, terminal 50 voltage supply relay 2, fuses

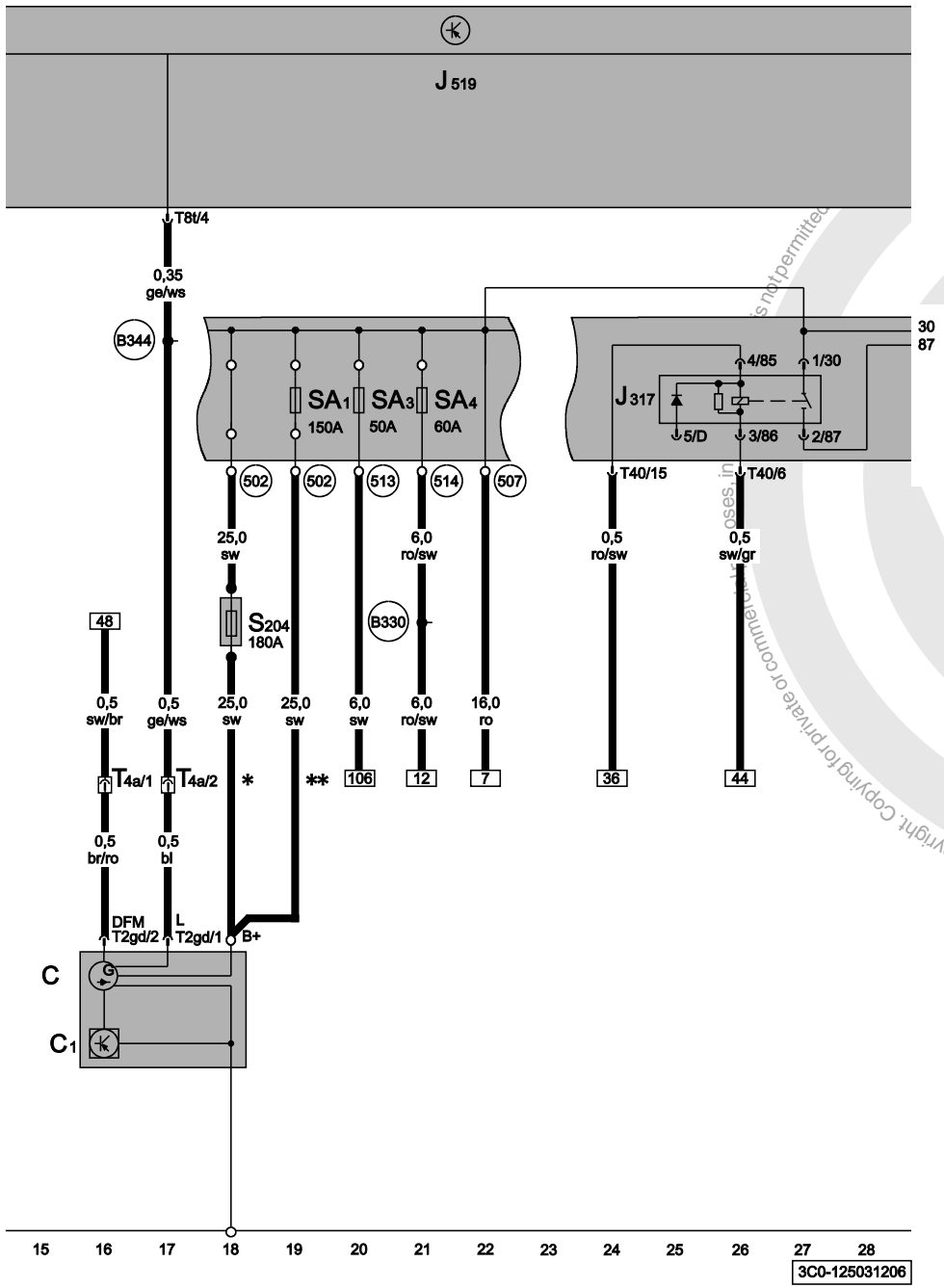
A	Battery
B	Starter
J519	Onboard supply control unit
J329	Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38 in main wiring harness
*	models for cold countries only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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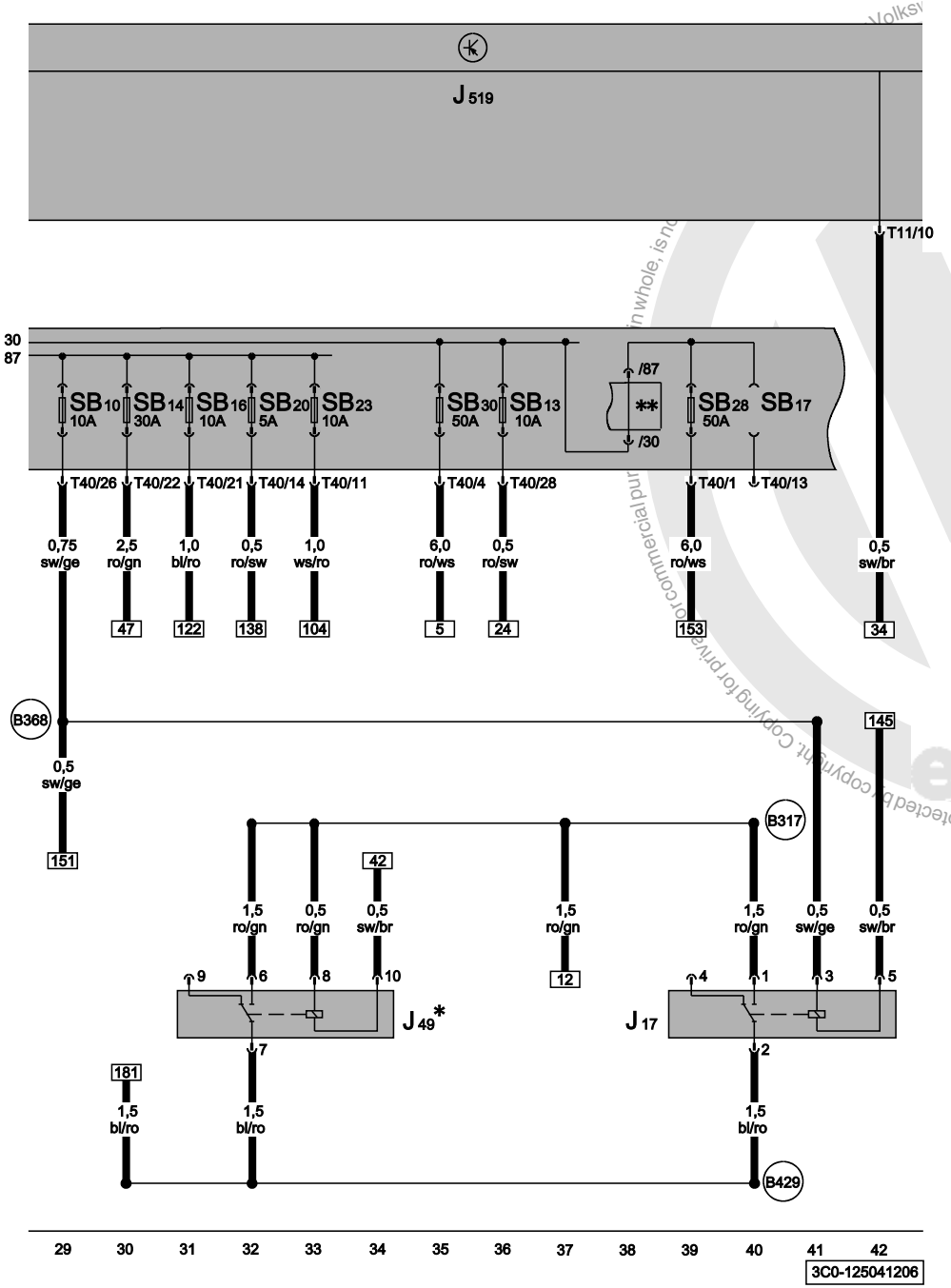
Alternator, terminal 30 voltage supply relay, fuses SA, fuse 1 (30)

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on fuse holder on battery
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	only models with 180 A alternator
**	only models with 140 A alternator



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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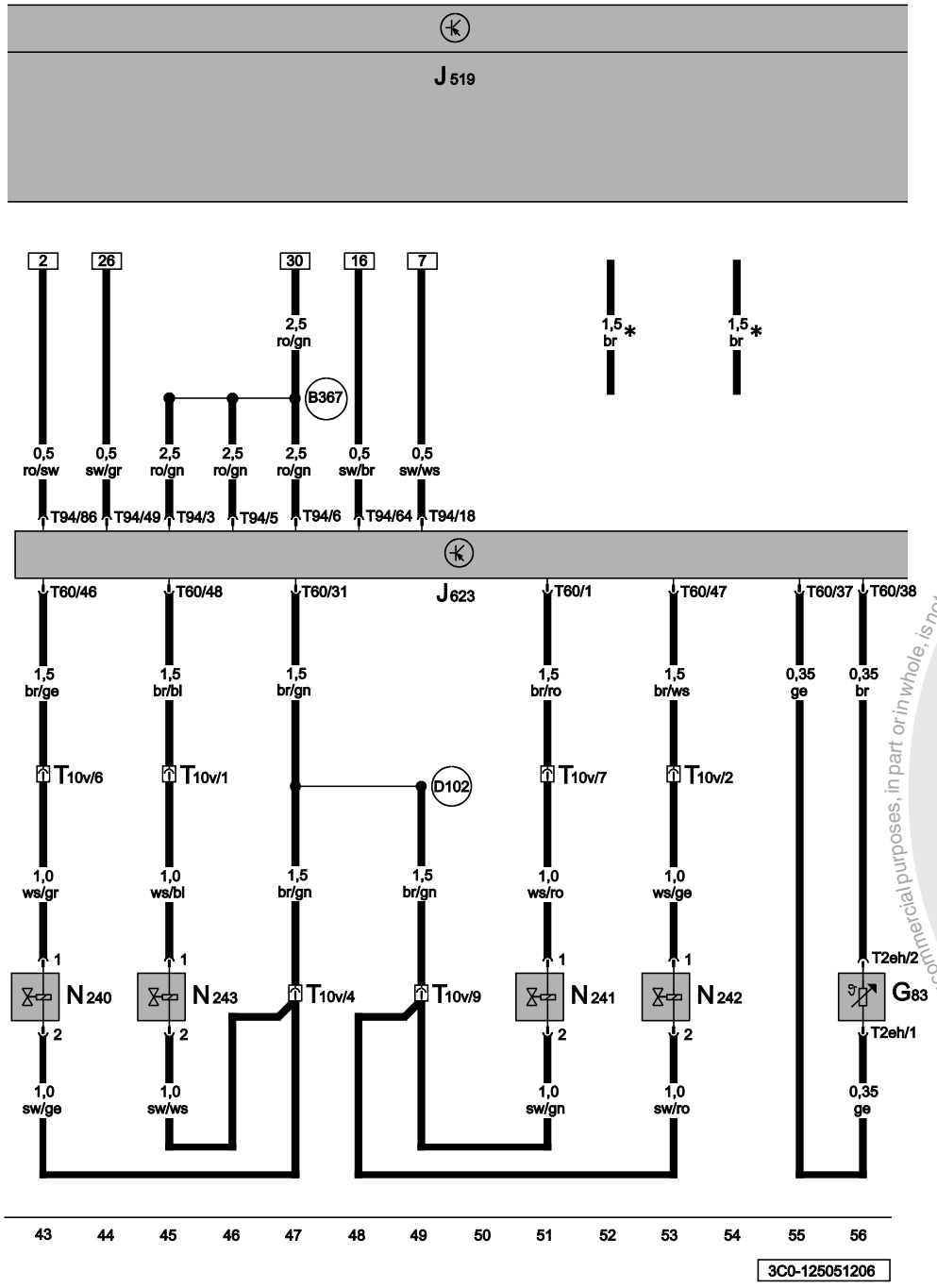


Fuel pump relay, electric fuel pump 2 relay, fuses SB

J17	Fuel pump relay, on relay carrier under dash panel on left (404)
J49	Electric fuel pump 2 relay, on relay carrier under left dash panel (404)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only auxiliary coolant heater
**	push-in bridge on the relay locations R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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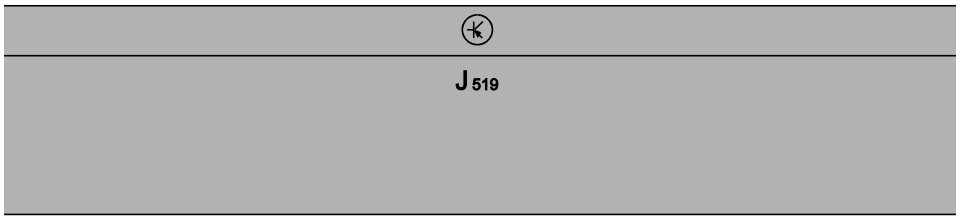


Engine control unit, radiator outlet coolant temperature sender, unit injector valves, No. 1 cyl. to No. 4

G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
T2eh	2-pin connector
T10v	10-pin connector, on left of cylinder head
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D102	Connection 2, in engine compartment wiring harness
*	Unassigned wire

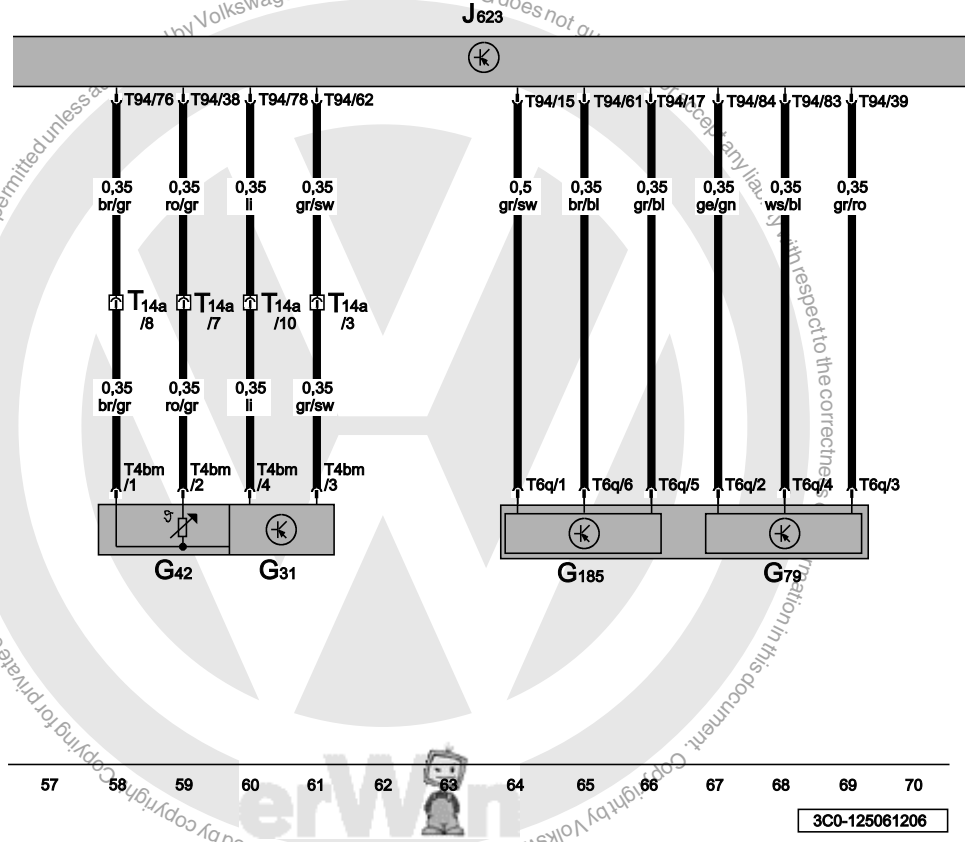
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ro	=	red
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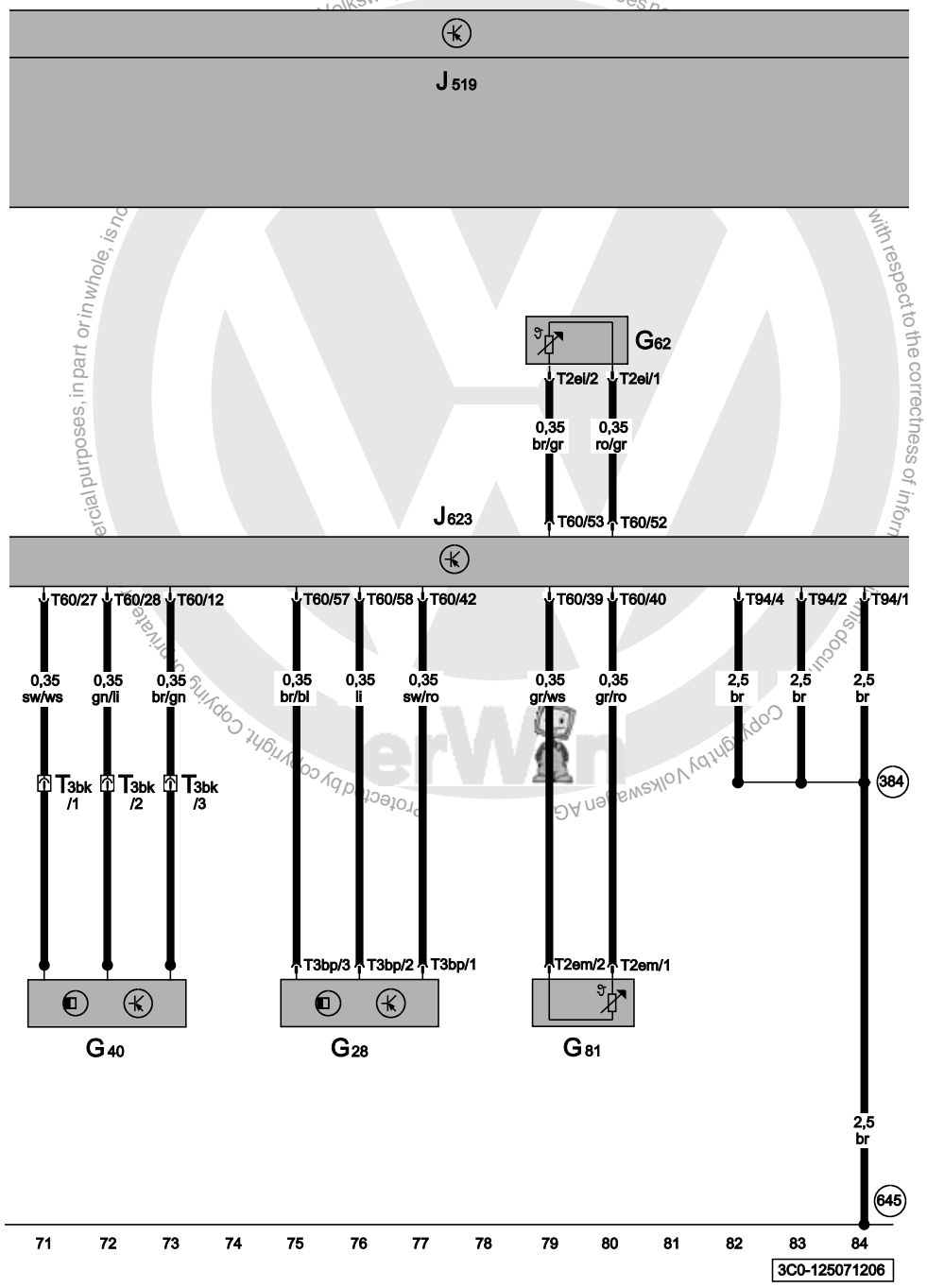
Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T4bm	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T94	94-pin connector



ws	=	white
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or	=	orange
rs	=	pink

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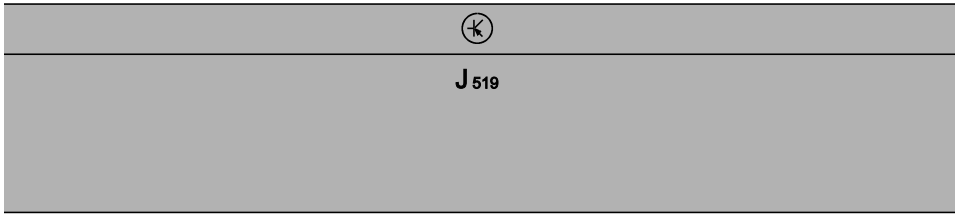


Engine control unit, engine speed sender, Hall sender, fuel temperature sender, coolant temperature sender

G28	Engine speed sender
G40	Hall sender
G62	Coolant temperature sender
G81	Fuel temperature sender
J519	Onboard supply control unit
J623	Engine control unit
T2ei	2-pin connector
T2em	2-pin connector, black
T3bk	3-pin connector, black
T3bp	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
384	Earth connection 19, in main wiring harness
645	Earth point 1, bulkhead

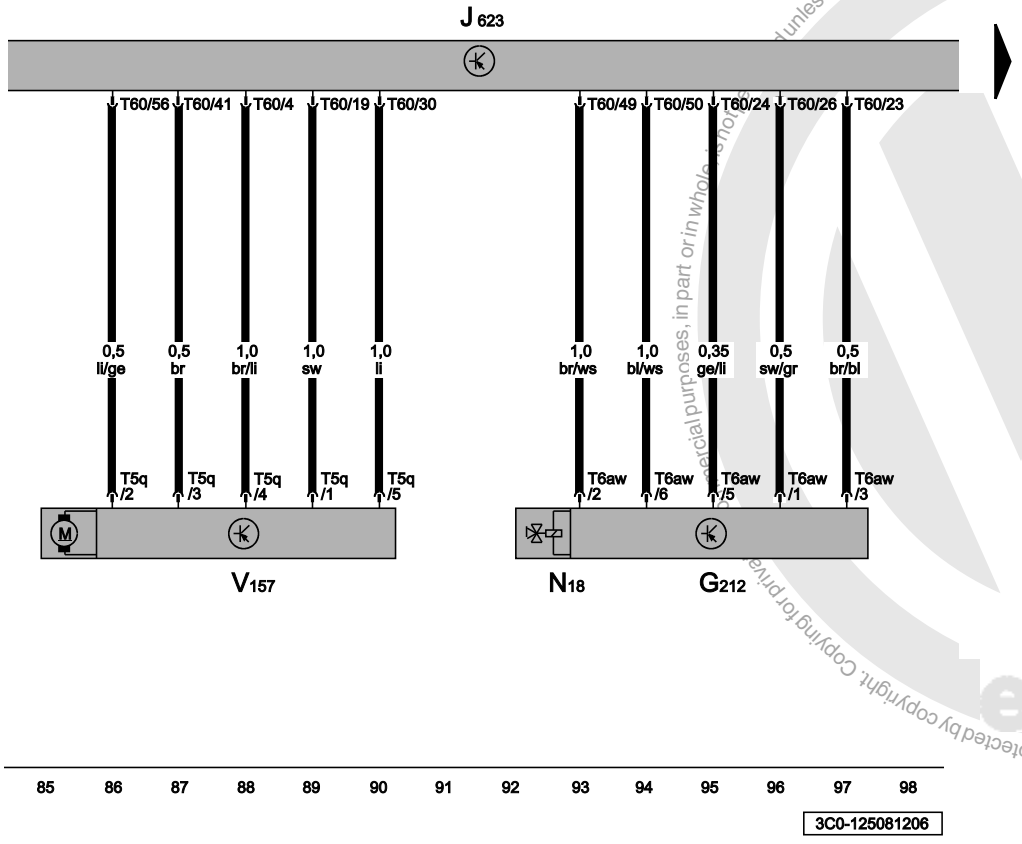
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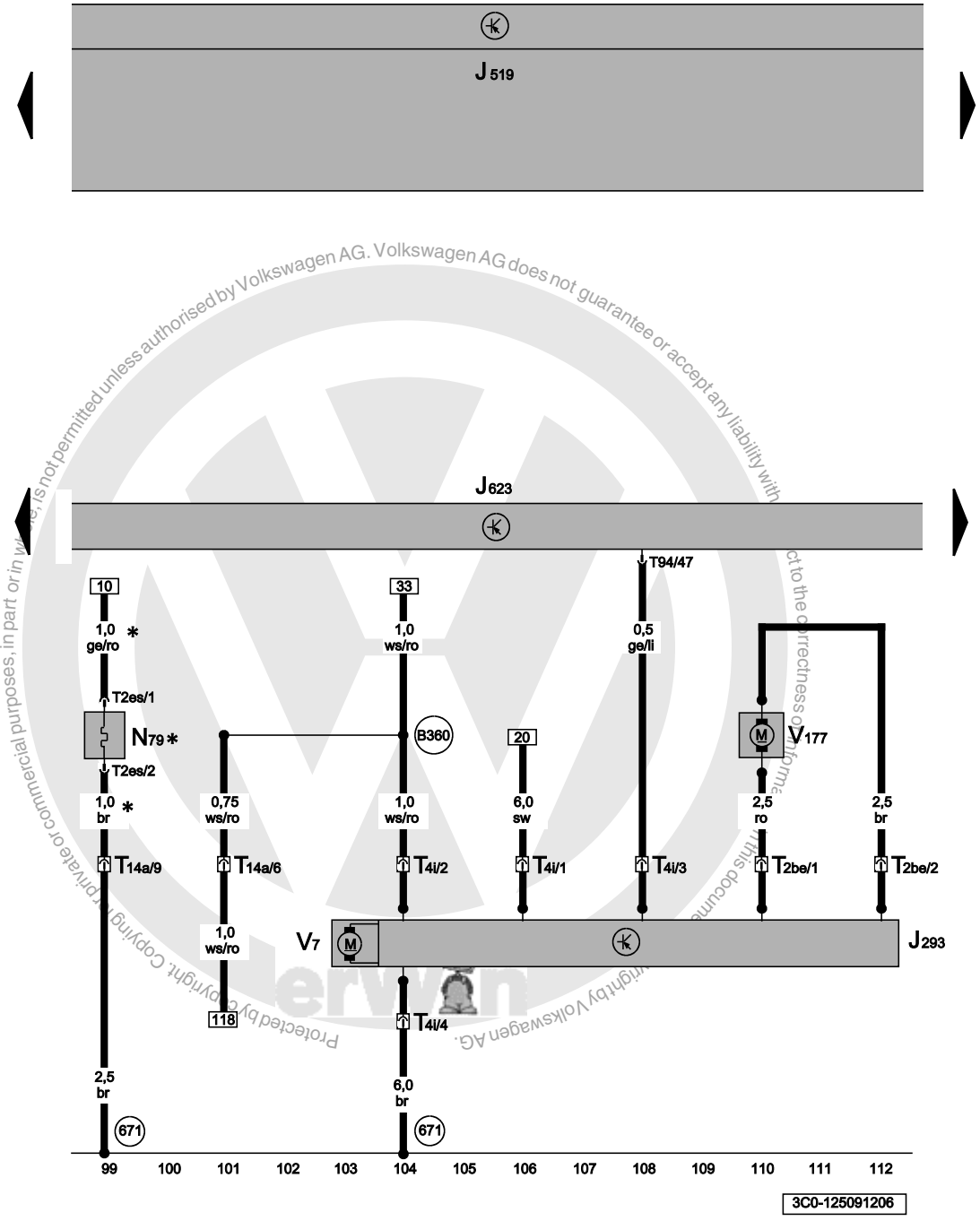
Engine control unit, intake manifold flap motor, exhaust gas recirculation potentiometer, exhaust gas recirculation valve

G212	Exhaust gas recirculation potentiometer
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
T5q	5-pin connector
T6aw	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor



ws = white
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ro = red
br = brown
gn = green
bl = blue
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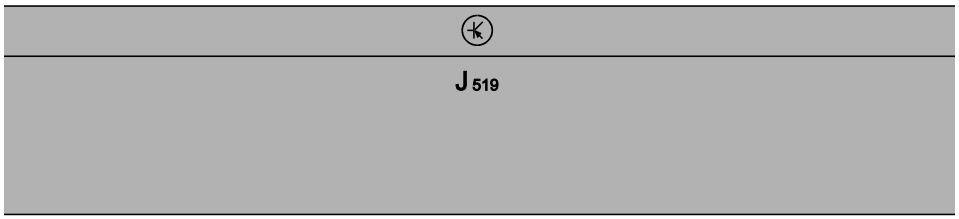


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Engine control unit, heater element for crankcase breather, radiator fan

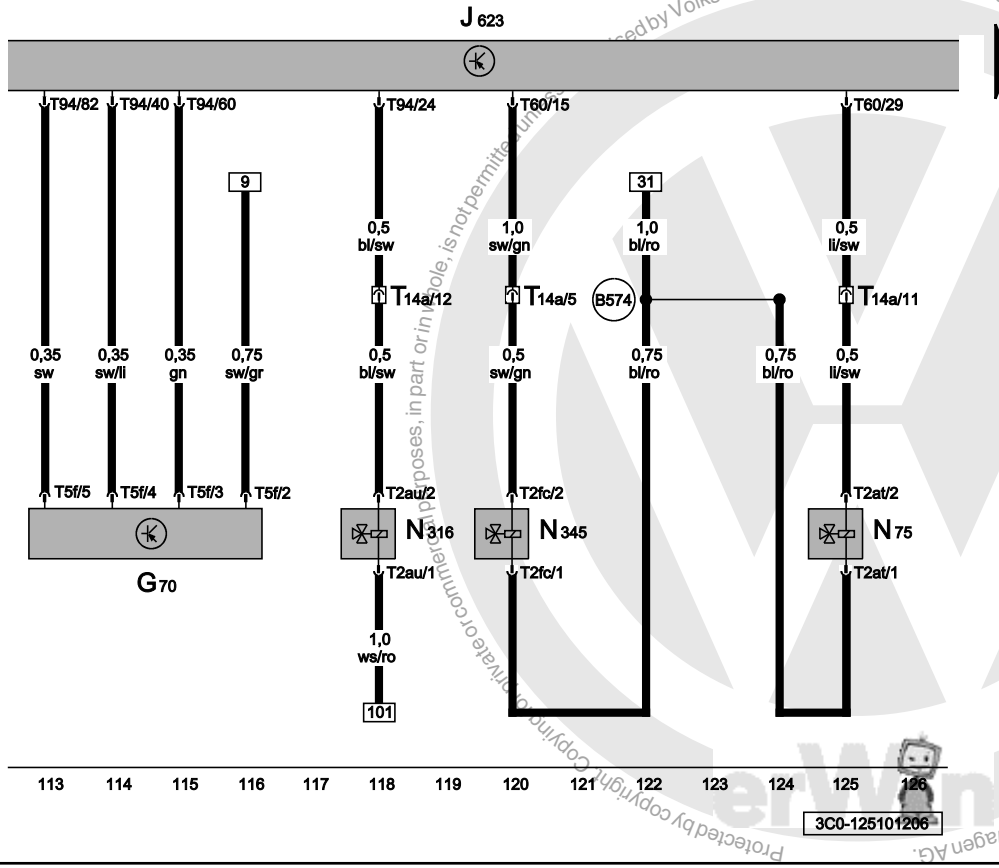
J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N79	Heater element for crankcase breather
T2es	2-pin connector
T2be	2-pin connector, on lock carrier
T4i	4-pin connector, black, coupling point radiator fan on centre lock carrier
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B360	Connection 11 (87a), in main wiring harness
*	models for cold countries only

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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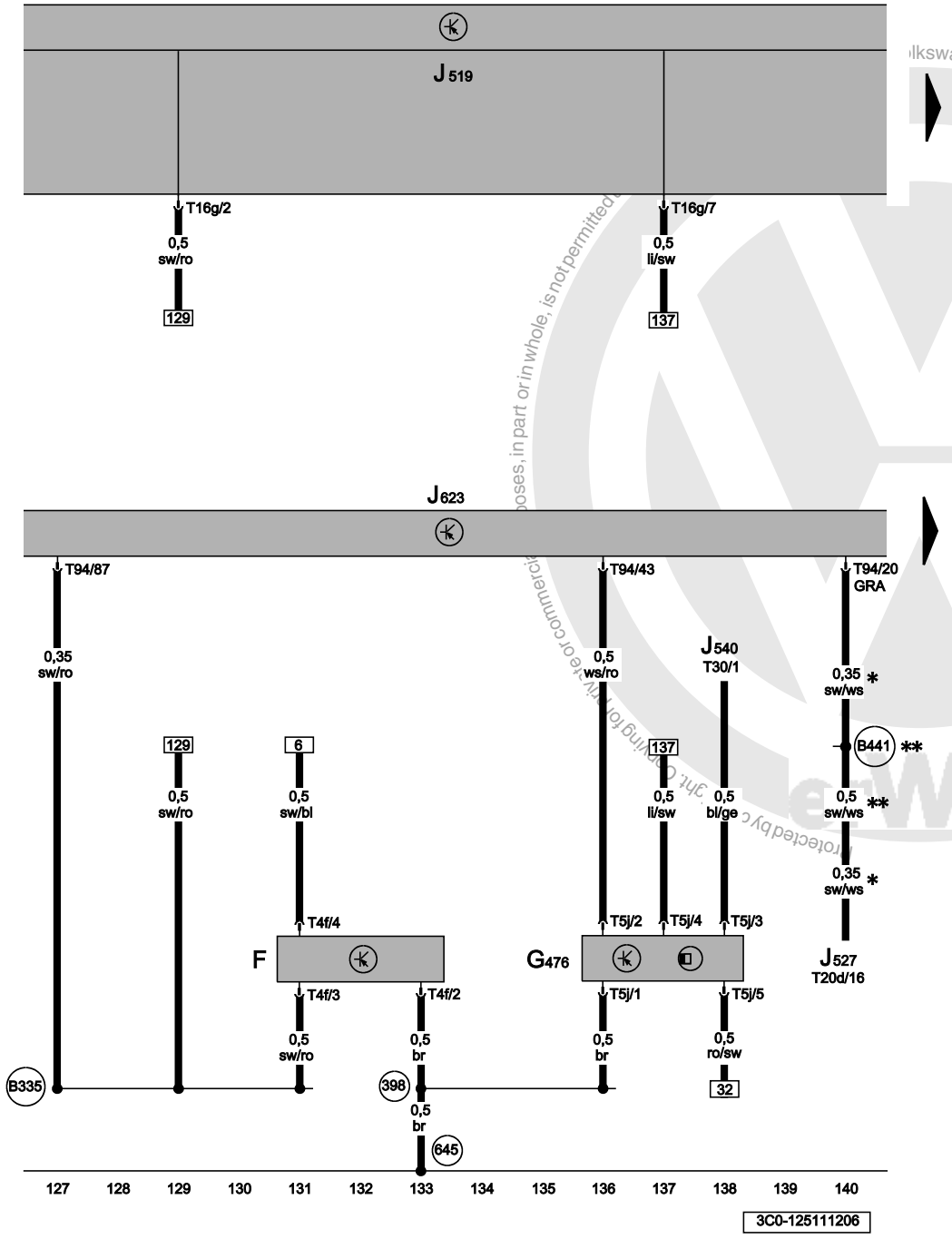
Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler change-over valve, intake manifold flap valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N316	Intake manifold flap valve
N345	Exhaust gas recirculation cooler change-over valve
T2au	2-pin connector
T2at	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness



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sw	=	black
ro	=	red
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bl	=	blue
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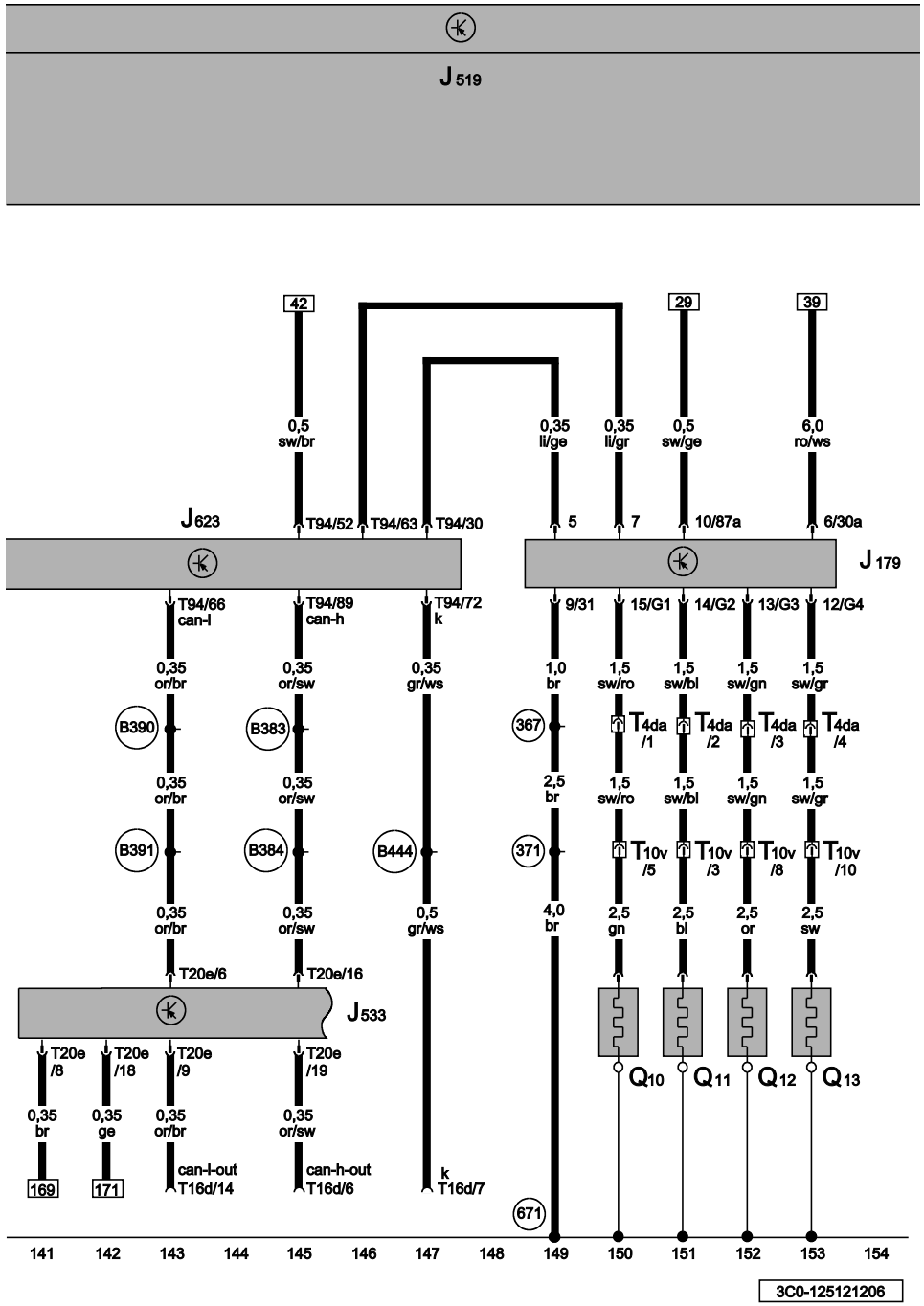


Engine control unit, clutch position sender, brake light switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, bulkhead
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	for models with CCS only
**	models with adaptive cruise control only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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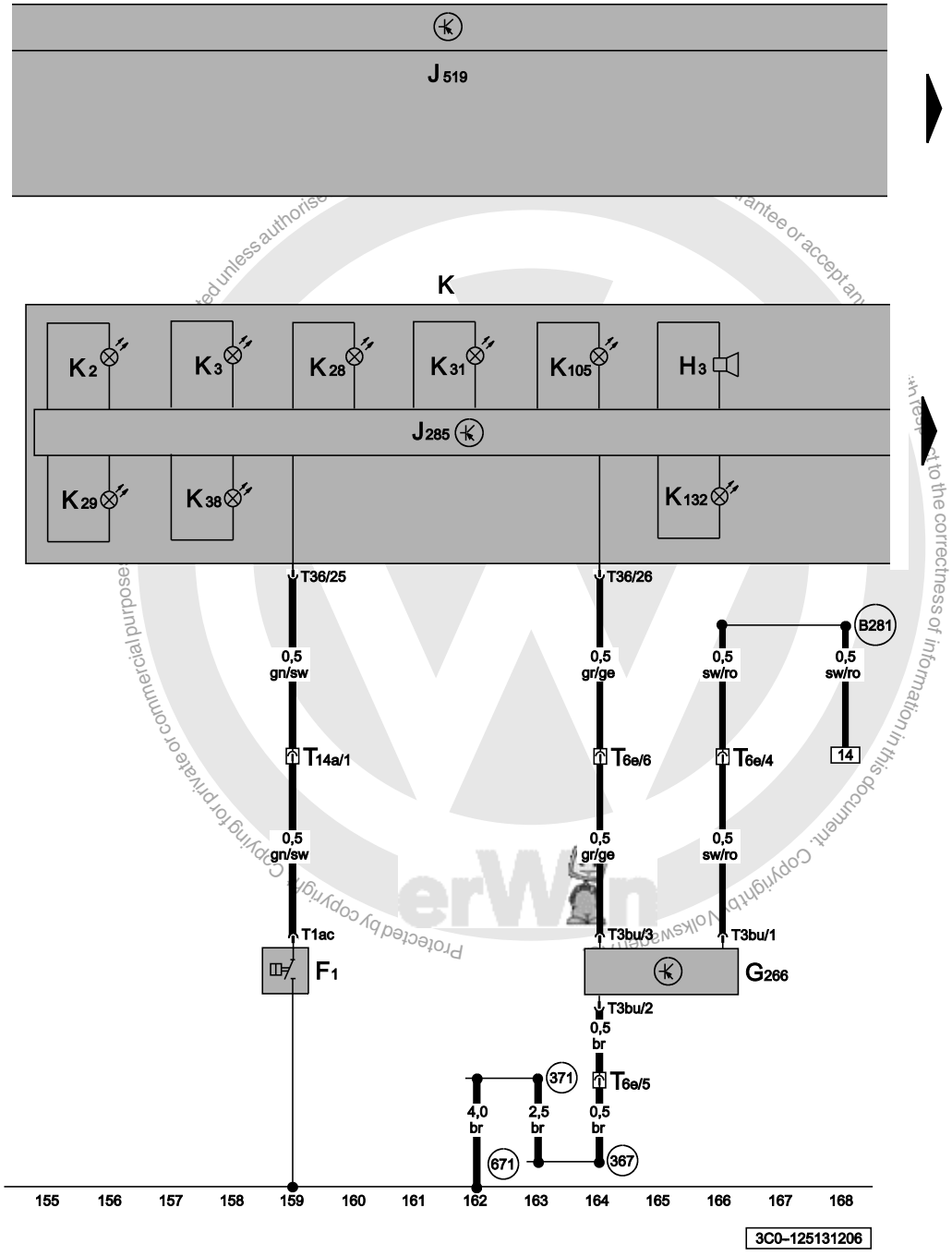


Engine control unit, Aautomatic glow period control unit, glow plugs 1-4, data bus diagnostic interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T4da	4-pin connector, black
T10v	10-pin connector, on left of cylinder head
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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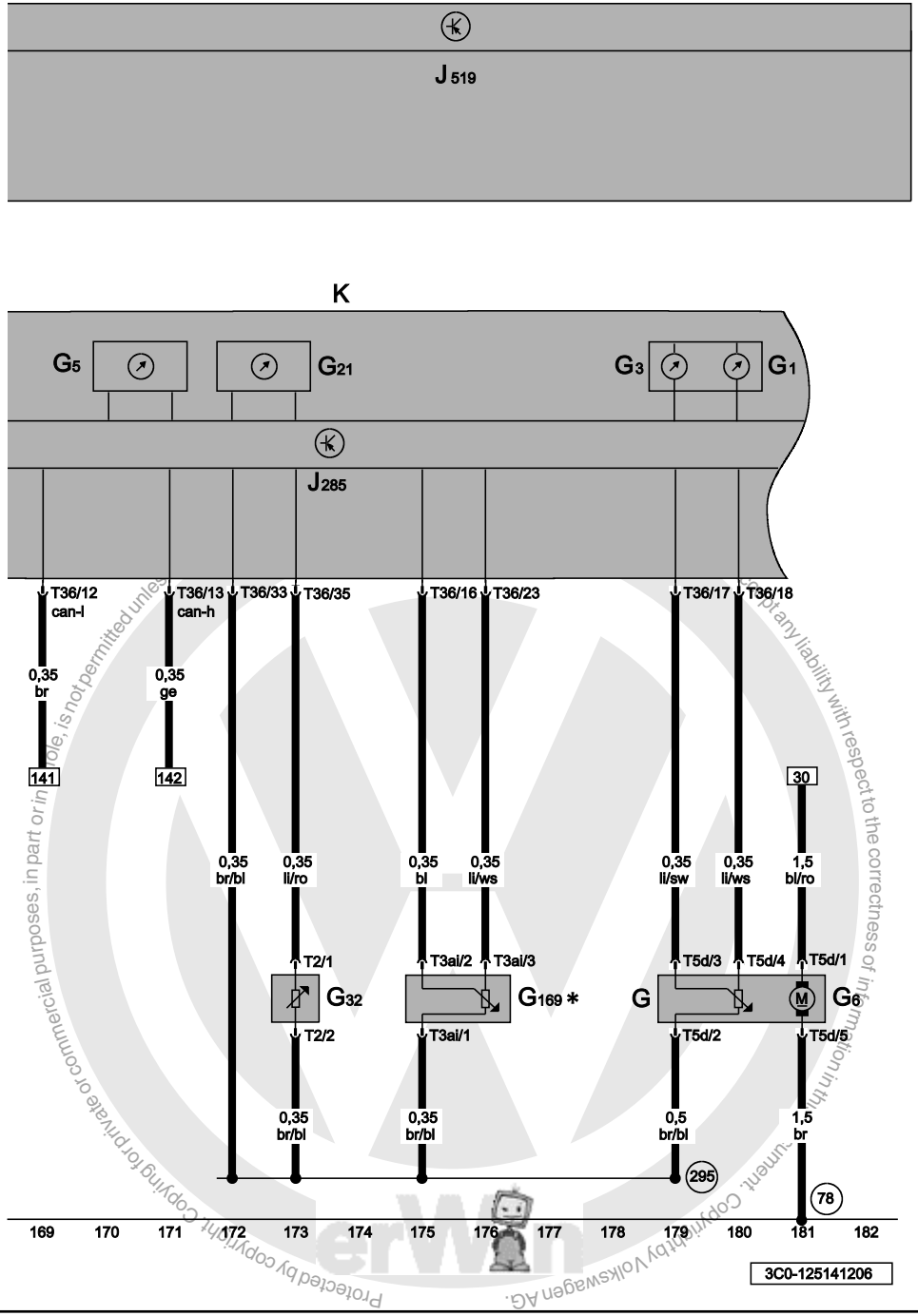


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black , coupling point 1 on left in engine compartment
T36	36-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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ge	=	yellow
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Dash panel insert, rev counter, speedometer, coolant temperature gauge, fuel system pressurisation pump, fuel gauge

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
*	for models with four-wheel drive only

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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Special equipment, criminal investigation department

⇒ **Radio system**
⇒ **Special signal system**
⇒ **Accident data memory**

From November 2006

Notes:

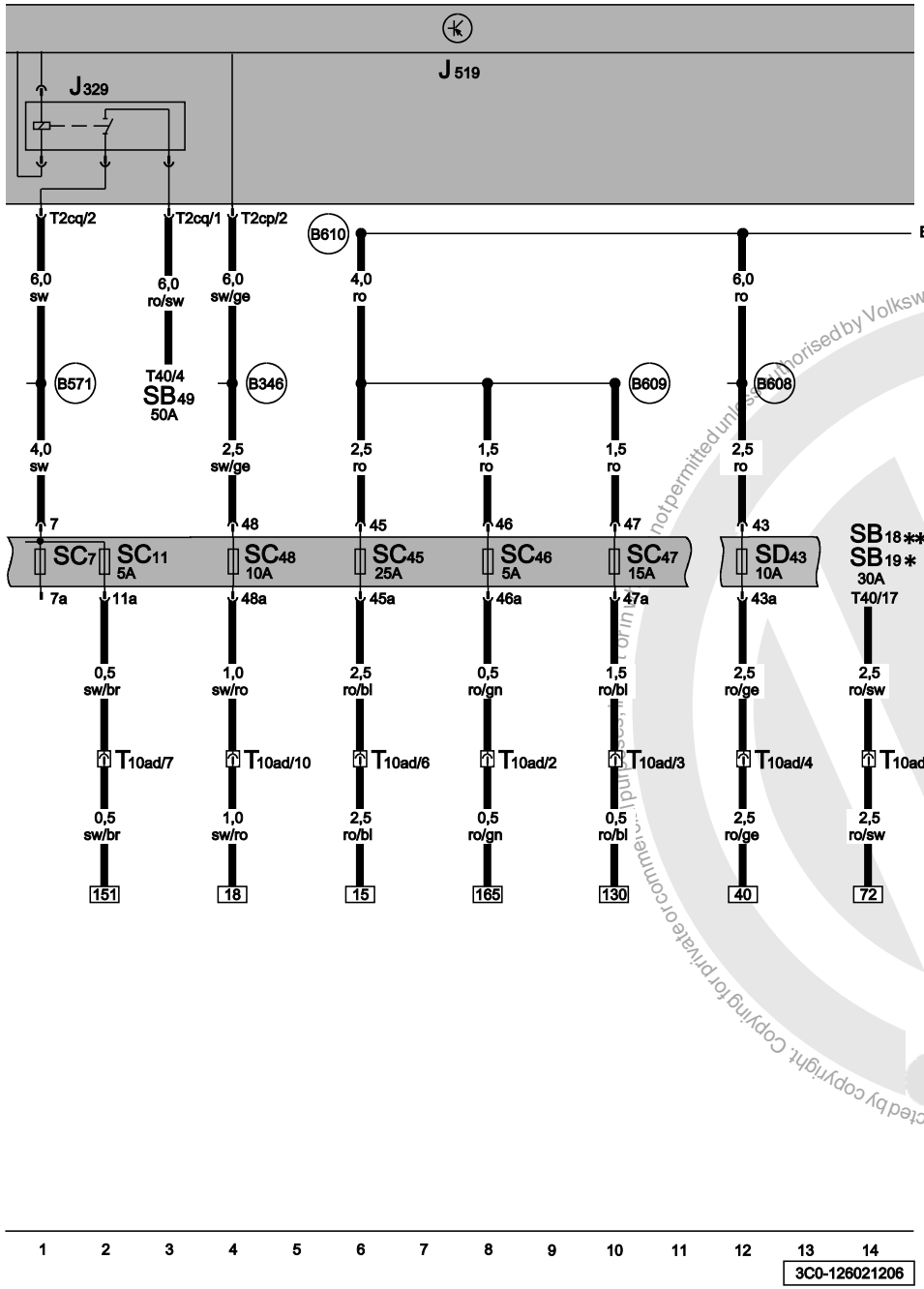
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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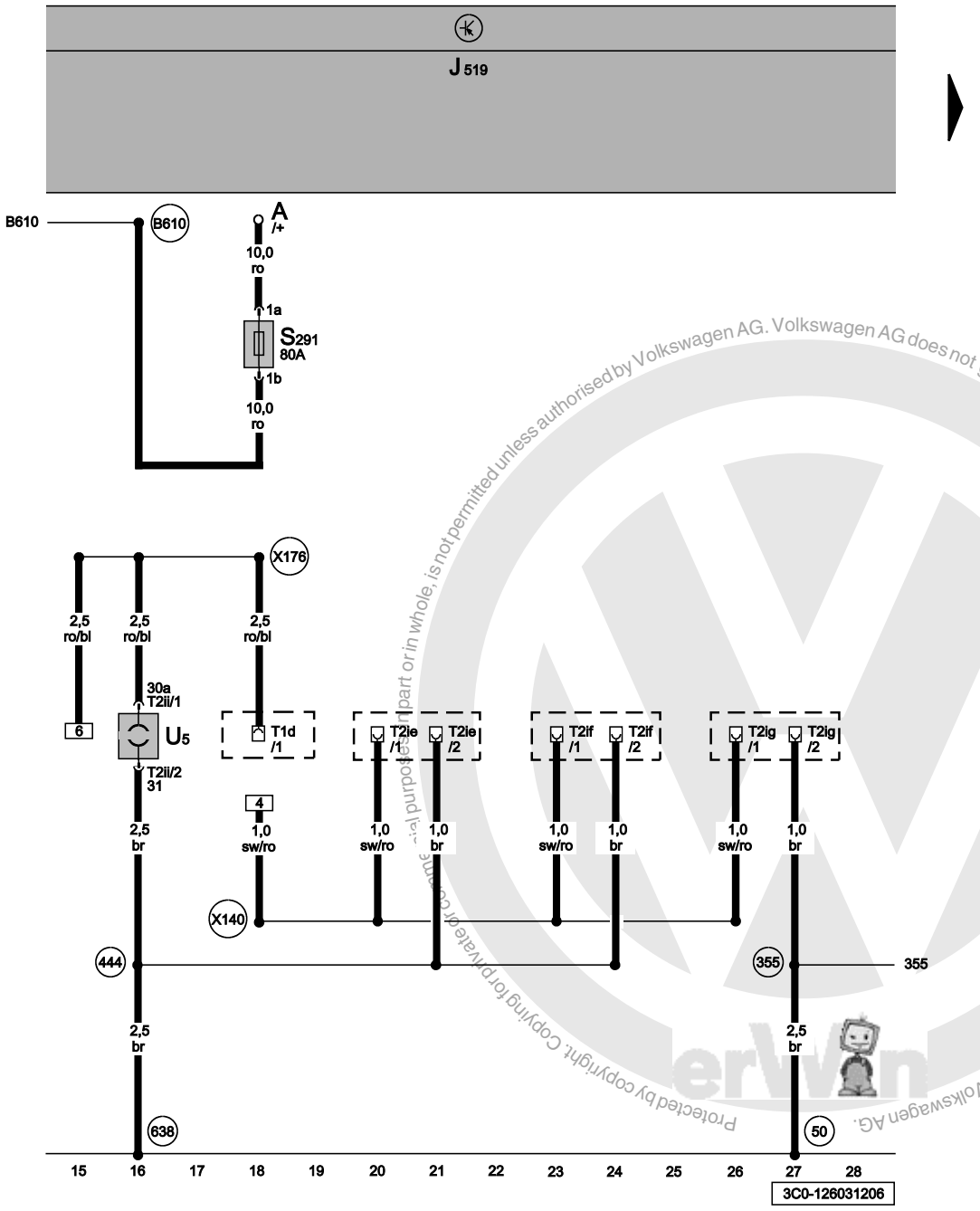


Fuses

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
SC11	Fuse 11 on fuse holder C
SC45	Fuse 45 on fuse holder C
SC46	Fuse 46 on fuse holder C
SC47	Fuse 47 on fuse holder C
SC48	Fuse 48 on fuse holder C
SD43	Fuse 43 on fuse holder D
T2cp	2-pin connector
T2cq	2-pin connector
T10ad	10-pin connector, black, coupling point, left A-pillar
T40	40-pin connector, under E-box, in engine compartment
B346	Connection 1 (75), in main wiring harness
B571	Connection 38, in main wiring harness
B608	Connection 4, in interior wiring harness
B609	Connection 5, in interior wiring harness
B610	Connection 6, in interior wiring harness
*	Only models with E-box low
**	Only models with E-box high

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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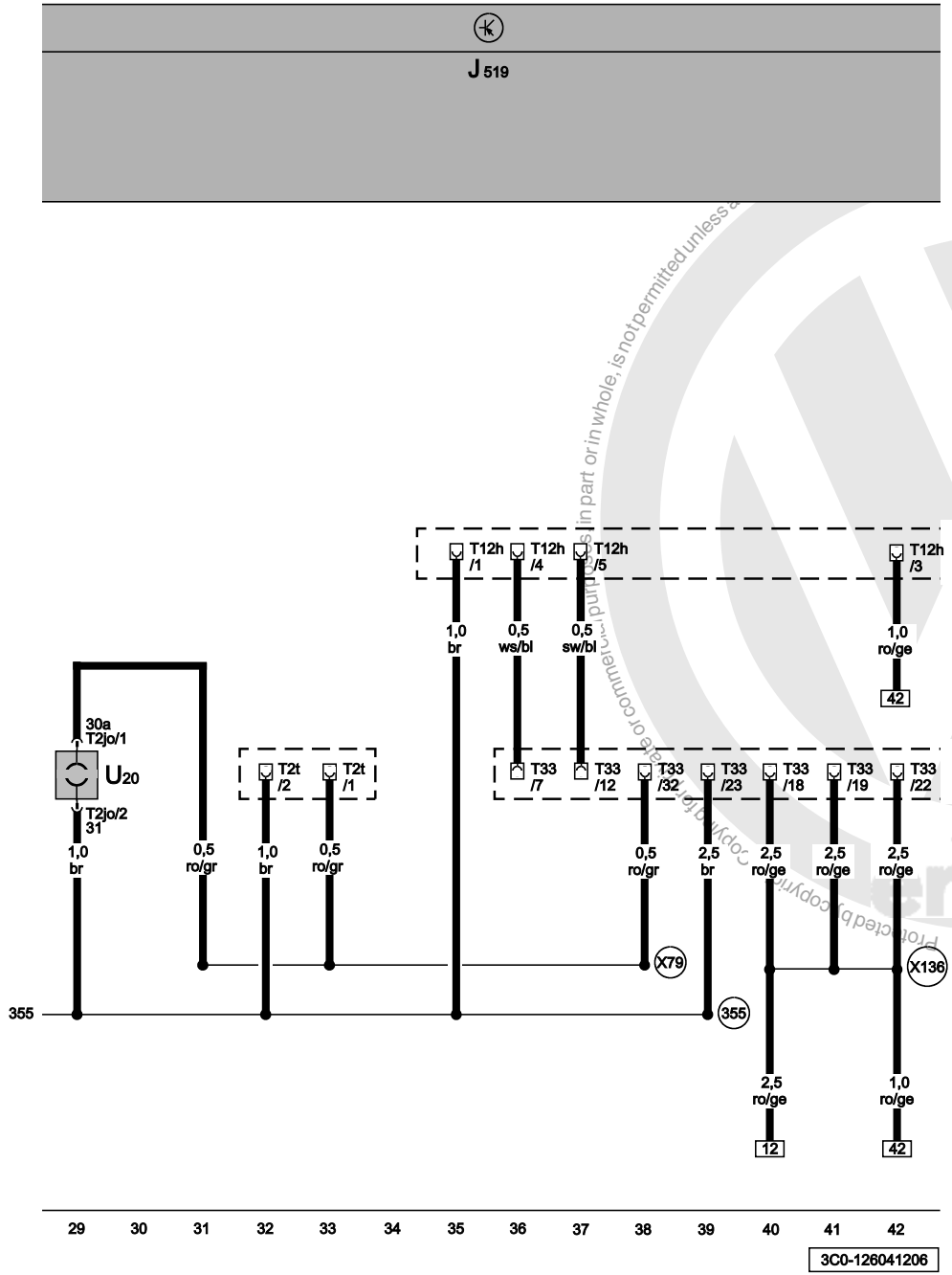


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sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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Fuse 1 for special vehicle, 12 V socket, coupling point for preparation for charger

A	Battery
J519	Onboard supply control unit
S291	Special vehicle fuse 1, extra fuse box on left headlight
T1d	Single pin connector, coupling point, near front centre console
T2ie	2-pin connector, charger coupling point, under front right seat
T2if	2-pin connector, coupling point for preparation for charger, under rear seat
T2ig	2-pin connector, charger coupling point in luggage compartment
T2ii	2-pin connector
U5	12 V socket, in luggage compartment
50	Earth point, on left in luggage compartment
355	Earth connection, in police wiring harness
444	Earth connection 5, in siren system wiring harness
638	Earth point, on right A-pillar
B610	Connection 6, in interior wiring harness
X140	Positive connection 2 (15a), in siren wiring harness
X176	Positive connection 2 (30a), in optional equipment wiring harness

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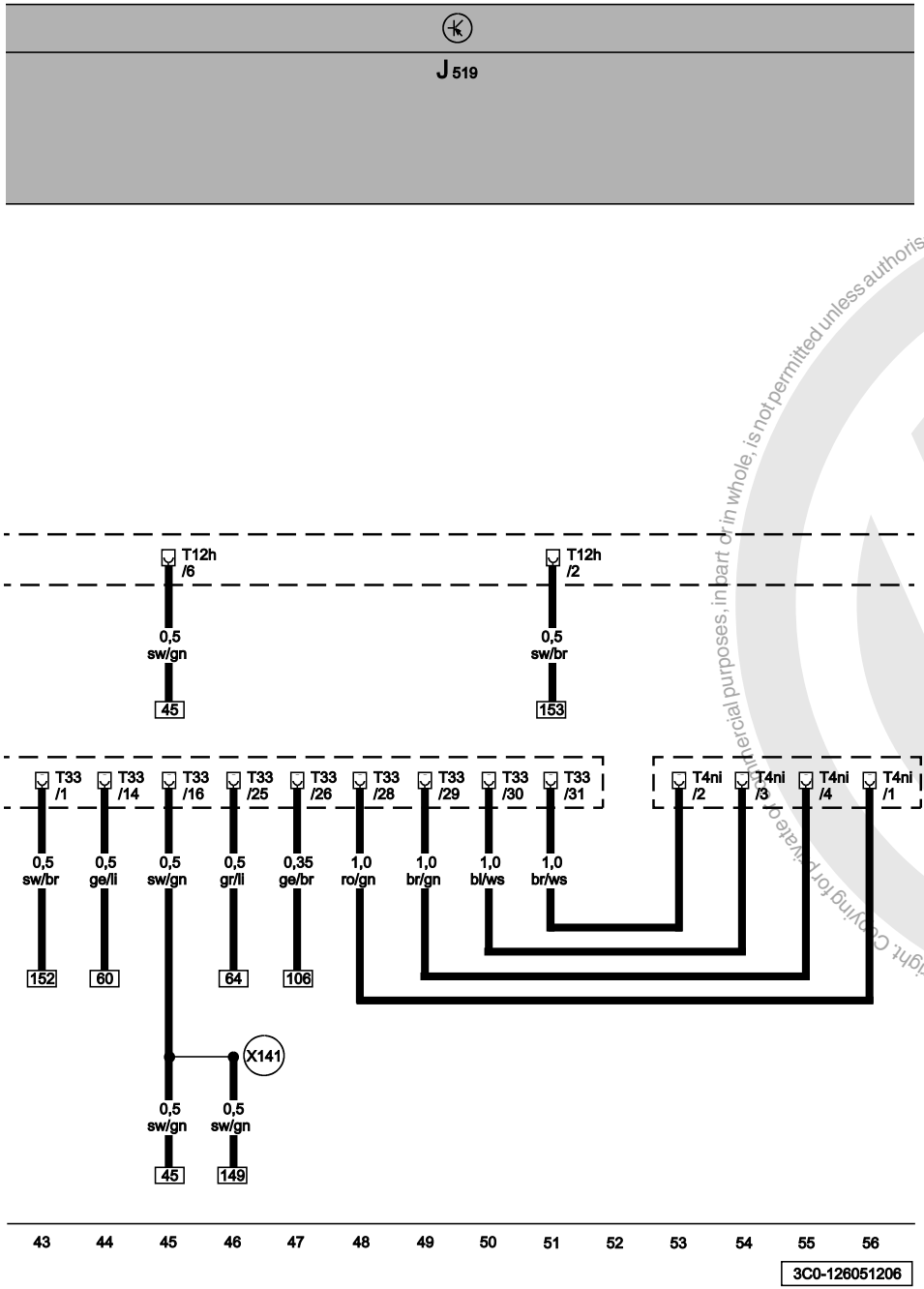


Coupling point for rotating light, special vehicle control unit

J519	Onboard supply control unit
T2jk	2-pin connector
T2t	2-pin connector, coupling point for rotating light under front left seat
T12h	12-pin connector, operating unit for special signal system, in radio slot in centre of dash panel
T33	33-pin connector, coupling point for special signal control unit under front left seat
U20	12 V socket, in glove compartment
355	Earth connection, in police wiring harness
X79	Connection 2, in optional equipment wiring harness
X136	Positive connection 1 (30a), in siren wiring harness

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br	=	brown
gn	=	green
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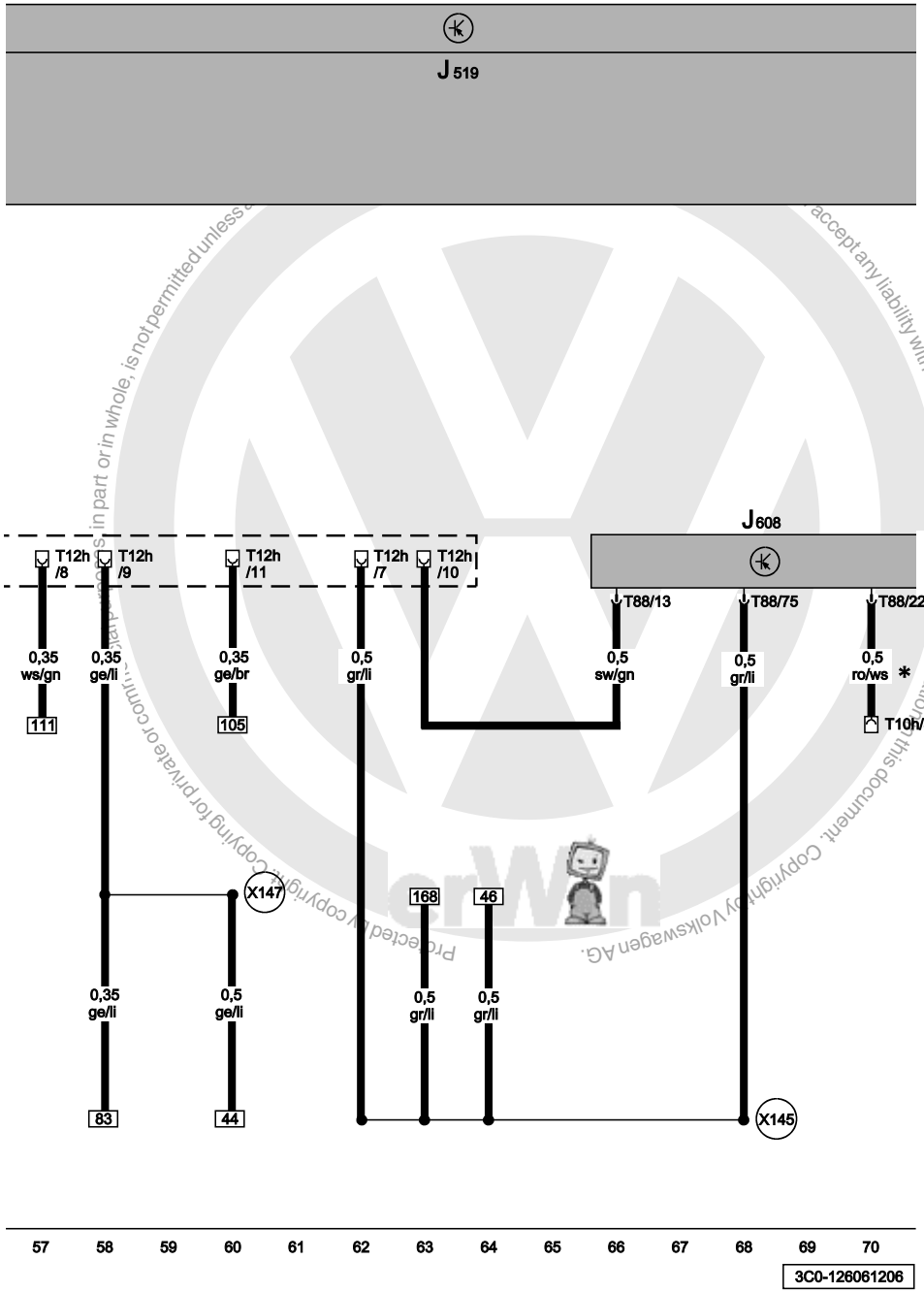


Special signal control unit, coupling point for special signal system, coupling point for pressure chamber loudspeaker

J519	Onboard supply control unit
T4ni	4-pin connector, coupling point for pressure chamber loudspeaker, in front of E-box in engine compartment
T12h	12-pin connector, operating unit for special signal system, in radio slot in centre of dash panel
T33	33-pin connector, coupling point for special signal control unit under front left seat
X141	Positive connection 4 (30a), in siren wiring harness

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sw	=	black
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br	=	brown
gn	=	green
bl	=	blue
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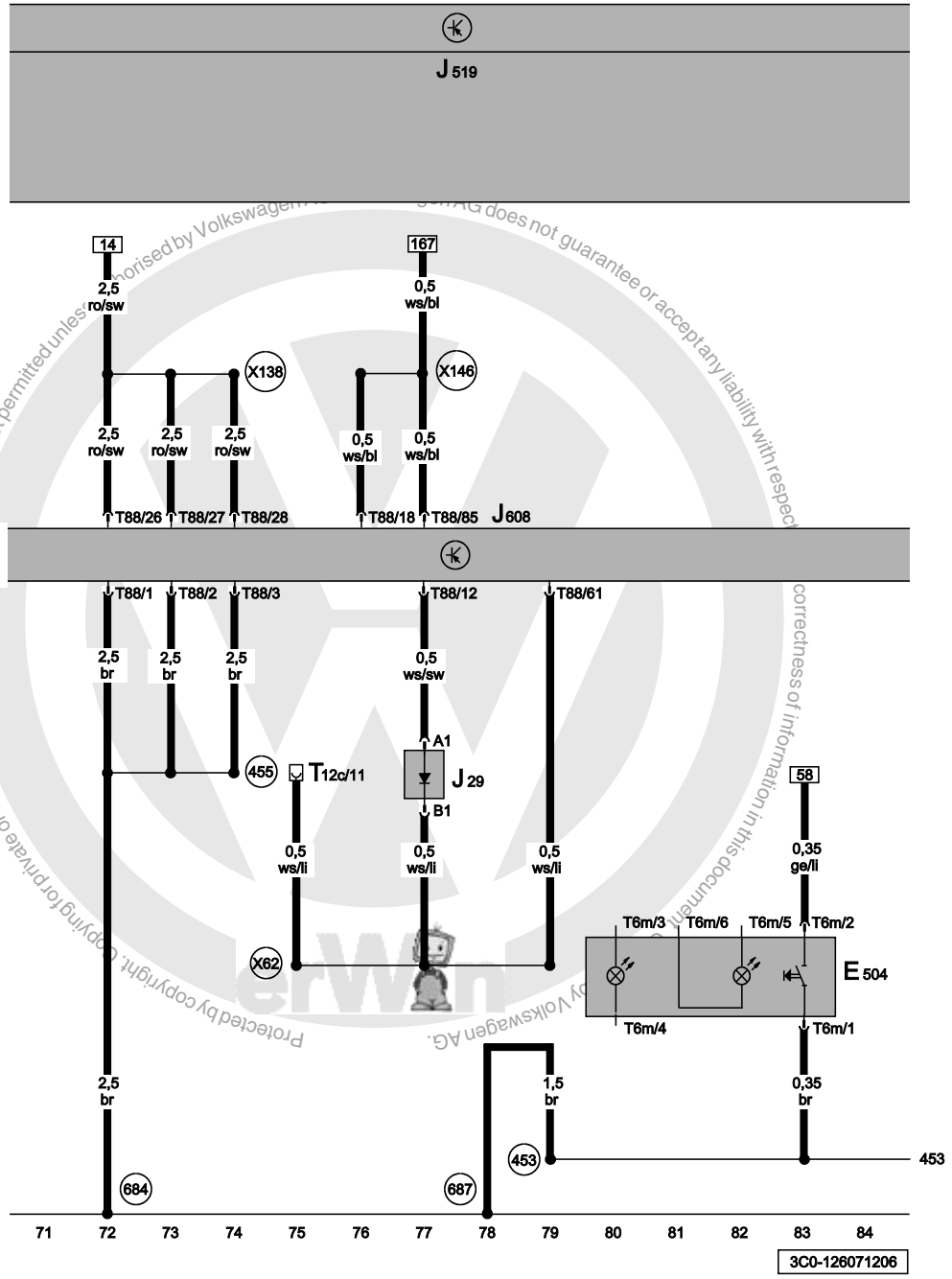


Operating unit special signal system, special vehicle control unit

J519	Onboard supply control unit
J608	Special vehicle control unit
T10h	10-pin connector, coupling point, rear lid right
T12h	12-pin connector, operating unit for special signal system, in radio slot in centre of dash panel
T88	88-pin connector
X145	Connection 7, in optional equipment wiring harness
X147	Positive connection 6 (30), in optional equipment wiring harness
*	Only Variant models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Special vehicle control unit, blocking diode, functional test button for special signal system

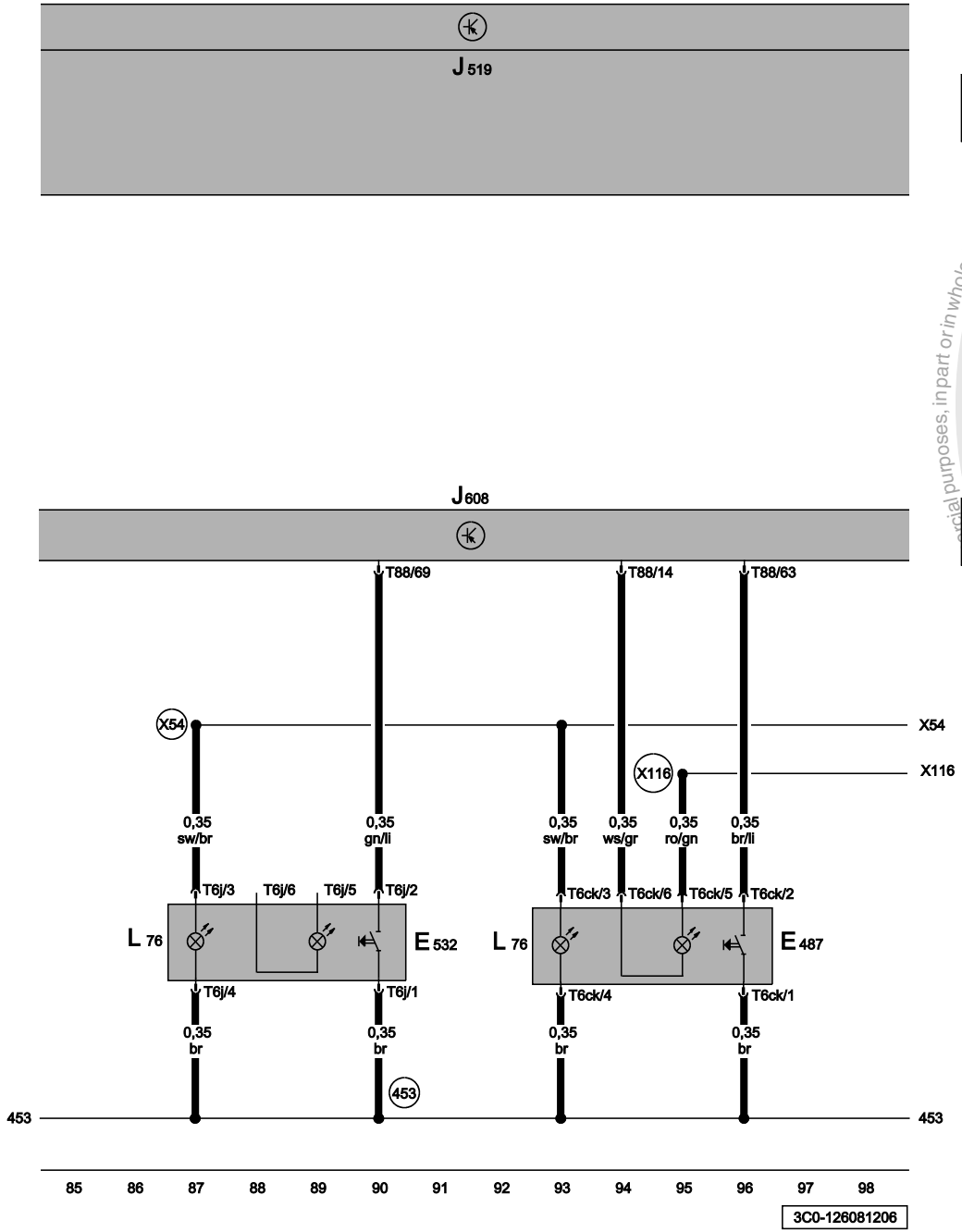
J29	Blocking diode
E504	Functional test button for special signal system
J519	Onboard supply control unit
J608	Special vehicle control unit
T6m	6-pin connector
T12c	12-pin connector, black, coupling point, left A-pillar
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
455	Earth connection 5, in optional equipment wiring harness
684	Earth point on front of left side member
687	Earth point 1, on centre tunnel
X62	Positive connection 3 (15a), in optional equipment wiring harness
X138	Positive connection 3 (30a), in siren wiring harness
X146	Connection 8, in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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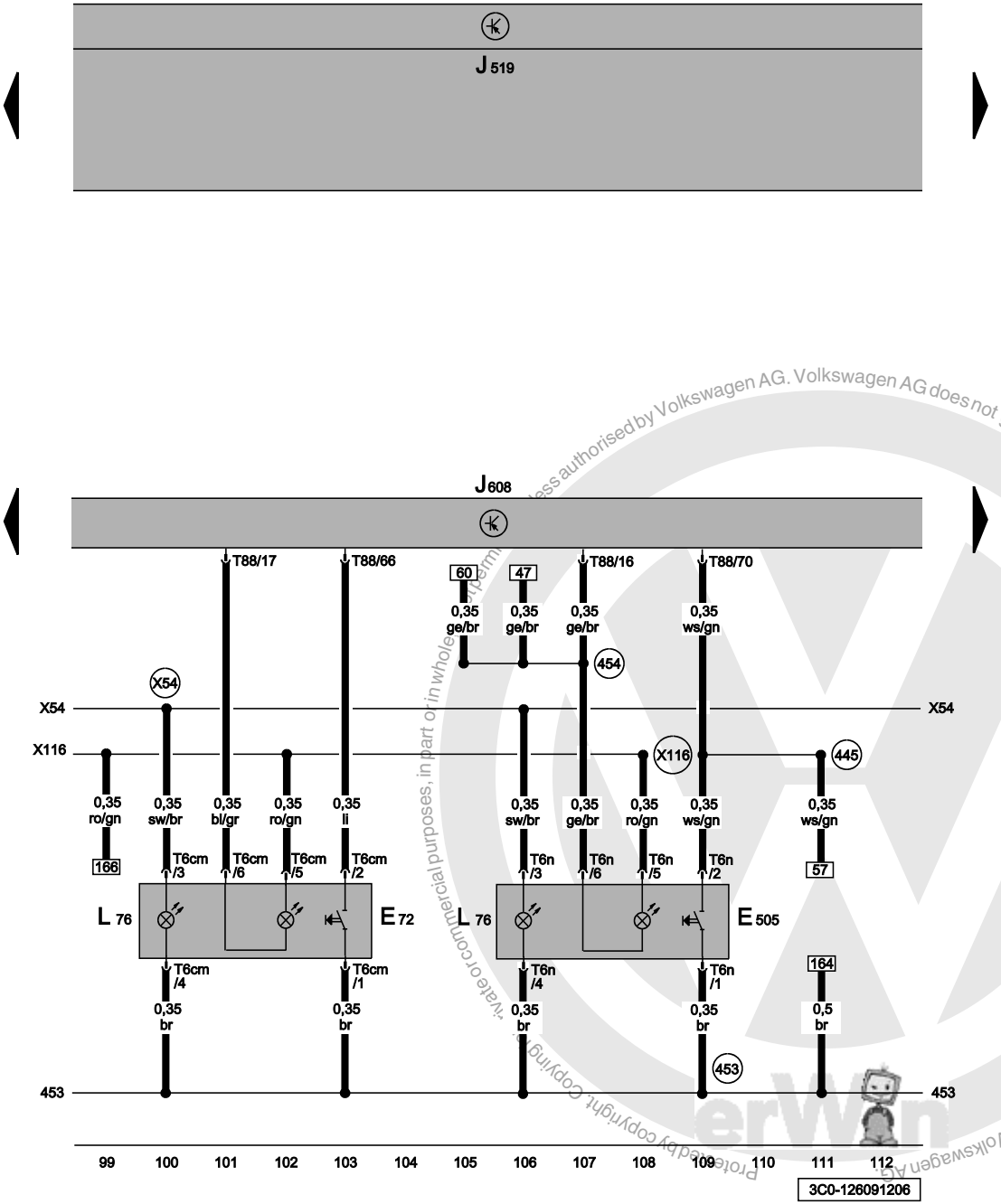
Special vehicle control unit, hands-free system button, button to deactivate interior lights

E487	Hands-free system button
E532	Button to deactivate interior lights
J519	Onboard supply control unit
J608	Special vehicle control unit
L76	Button illumination bulb
T6j	6-pin connector
T6ck	6-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
X54	Positive connection (58), in optional equipment wiring harness
X116	Positive connection 2 (30), in optional equipment wiring harness



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ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
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Special vehicle control unit, 2-way radio switch, special signal system changeover button

E72 2-way radio switch
E505 Special signal system changeover button
J519 Onboard supply control unit
J608 Special vehicle control unit
L76 Button illumination bulb
T6n 6-pin connector
T6cm 6-pin connector
T88 88-pin connector

445 Earth connection 6, in siren system wiring harness

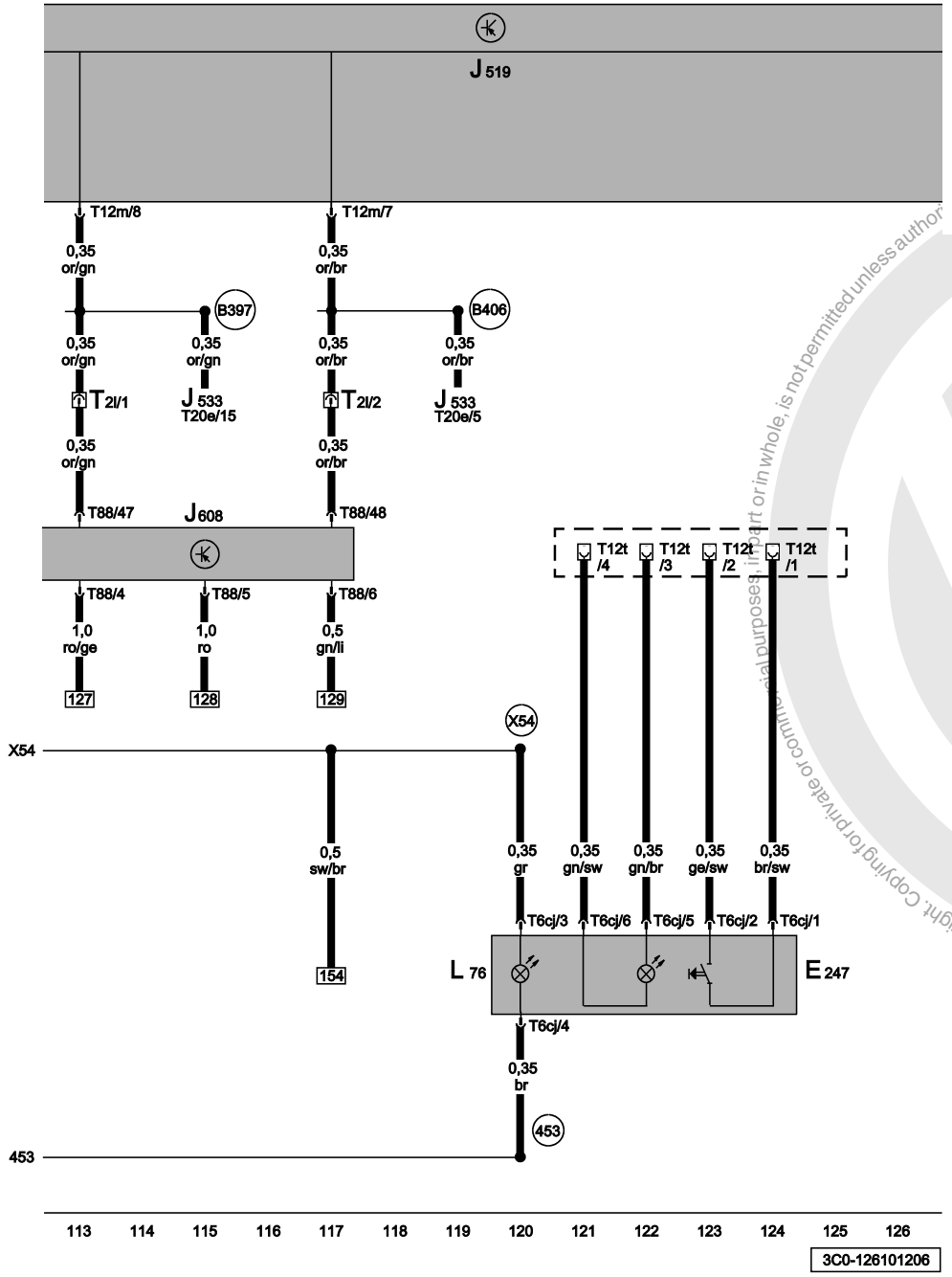
453 Earth connection 3, in optional equipment wiring harness

454 Earth connection 4, in optional equipment wiring harness

X54 Positive connection (58), in optional equipment wiring harness

X116 Positive connection 2 (30), in optional equipment wiring harness

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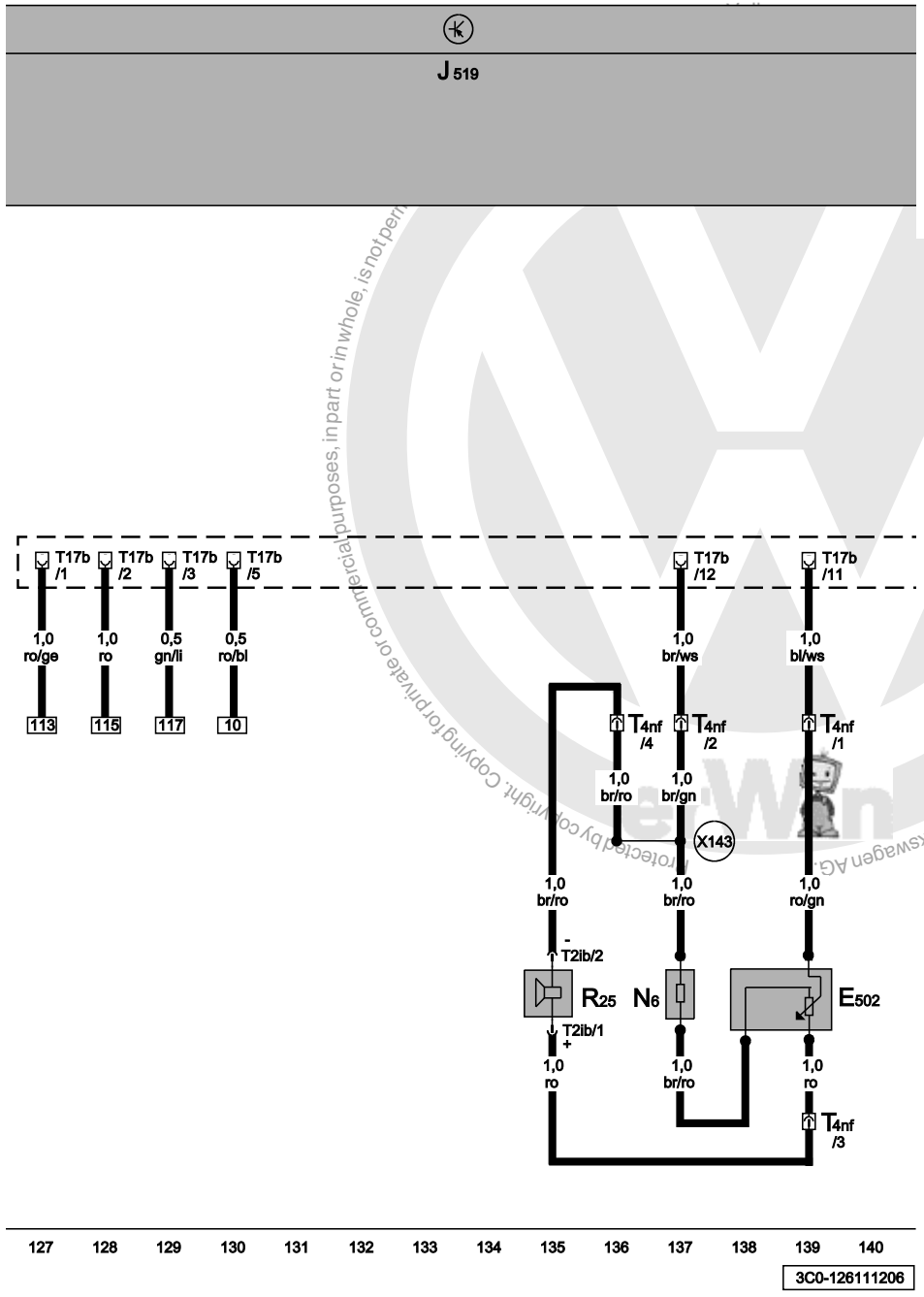


Special vehicle control unit, onboard supply control unit, switch to trip alarm, coupling point 2-way radio button

E247	Switch to trip alarm
J519	Onboard supply control unit
J608	Special vehicle control unit
J533	Data bus diagnostic interface
L76	Button illumination bulb
T2l	2-pin connector, on Gateway control unit near steering column
T6cj	6-pin connector
T12m	12-pin connector, black
T12t	12-pin connector, coupling point for 2-way radio button in spare wheel well
T20e	20-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
X54	Positive connection (58), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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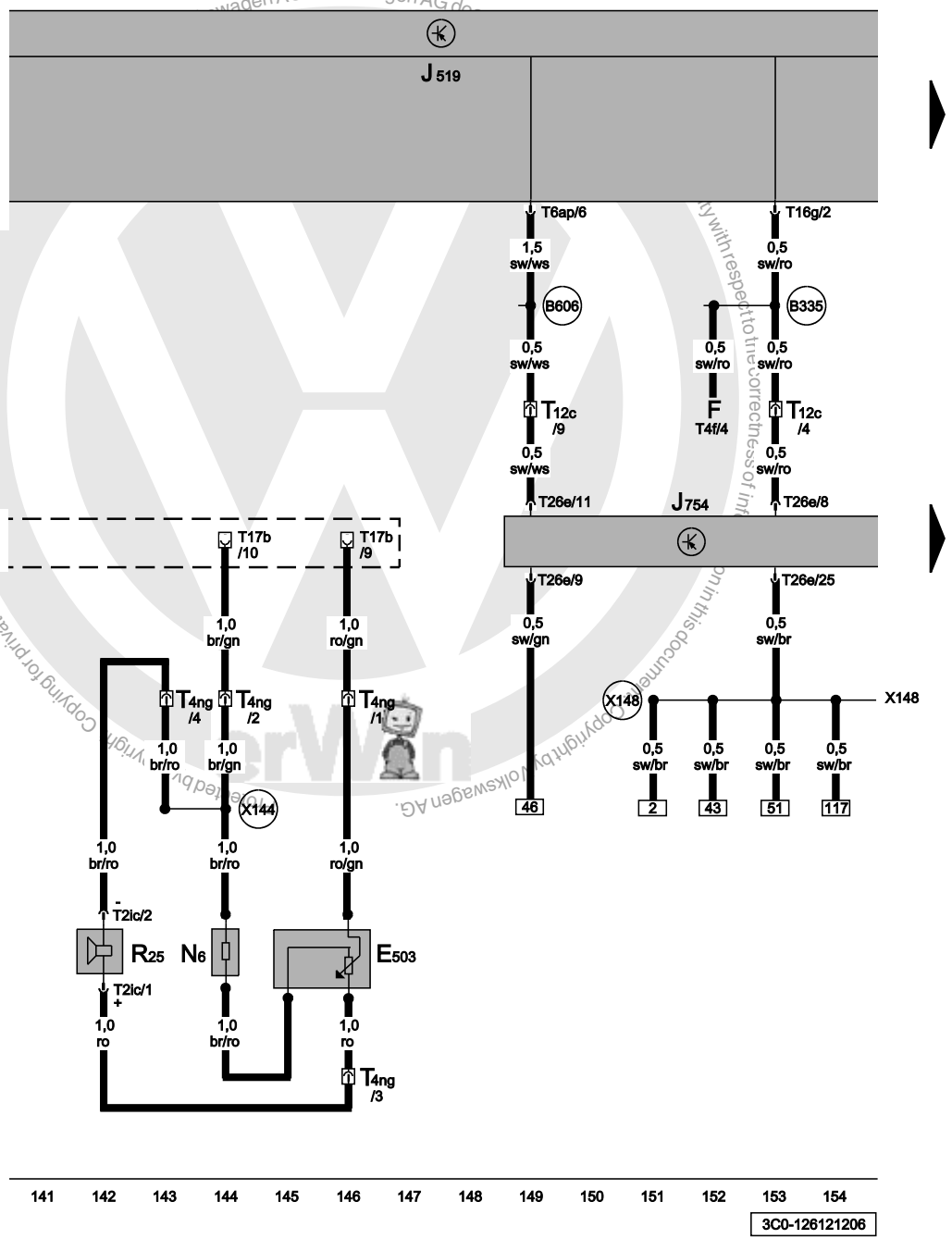


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2-way radio loudspeaker volume control 1, coupling point for 2-way radio, 2-way radio speaker

E502	1-way radio loudspeaker volume control 2
J519	Onboard supply control unit
N6	Series resistor
R25	Two-way radio loudspeaker
T2ib	2-pin connector, centre console, near gear stick
T4nf	4-pin connector, on 1-way radio loudspeaker volume control 2
T17b	17-pin connector, coupling point for two-way radio in luggage compartment
X143	Positive connection 4 (30), in optional equipment wiring harness

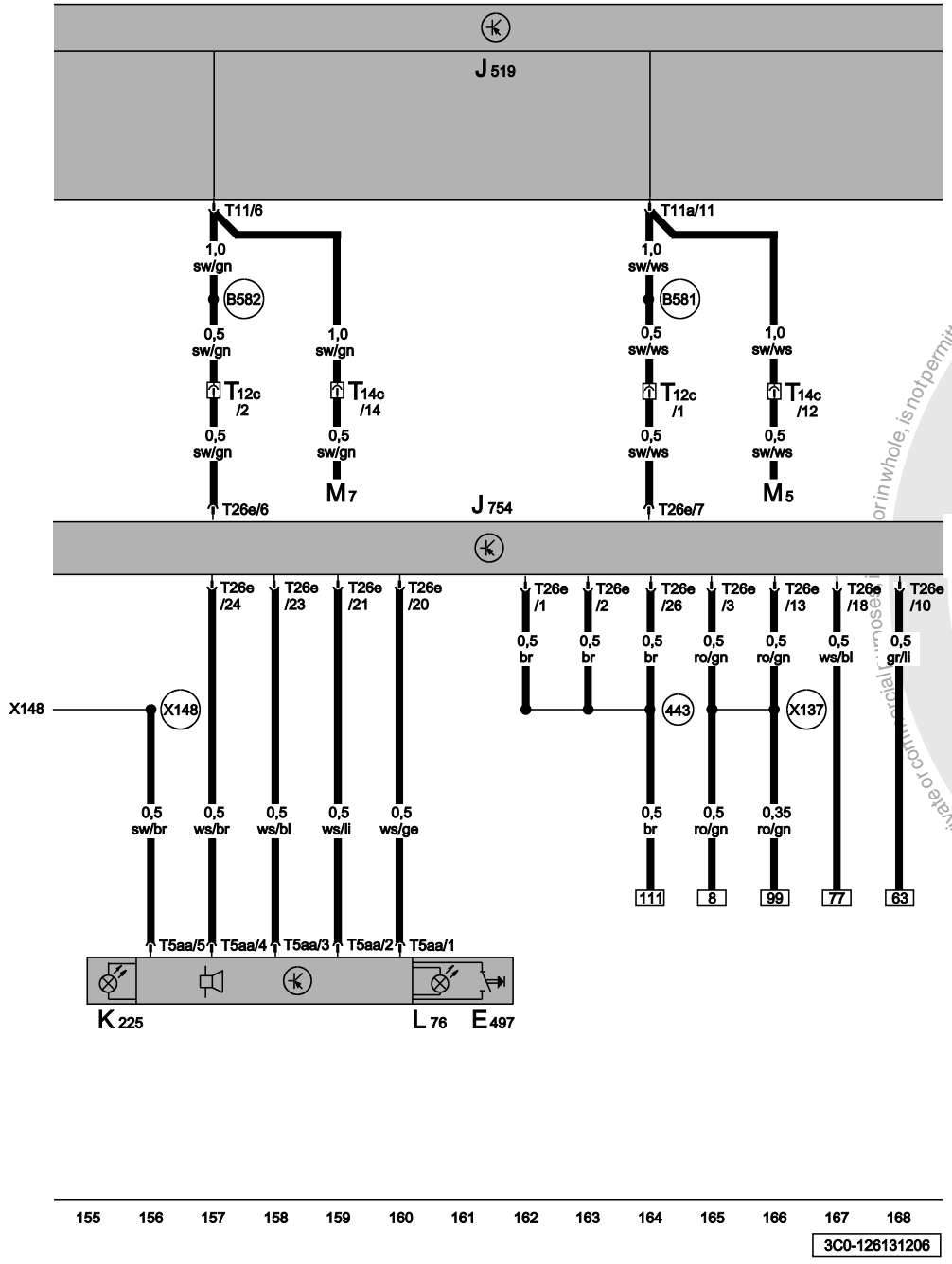
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2-way radio loudspeaker volume control 2, coupling point for 2-way radio, 2-way radio speaker, onboard supply control unit, accident data memory

E503	2-way radio loudspeaker volume control 2
F	Brake light switch
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
N6	Series resistor
R25	Two-way radio loudspeaker
T2ic	2-pin connector
T4f	4-pin connector
T4ng	4-pin connector, on 2-way radio loudspeaker volume control 2
T6ap	6-pin connector, black
T12c	12-pin connector, black, coupling point, left A-pillar
T16g	16-pin connector, black
T17b	17-pin connector, coupling point for two-way radio in luggage compartment
T26e	26-pin connector
B335	Connection 1 (54), in main wiring harness
B606	Connection 2, in interior wiring harness
X144	Positive connection 5 (30), in optional equipment wiring harness
X148	Positive connection 7 (30), in optional equipment wiring harness

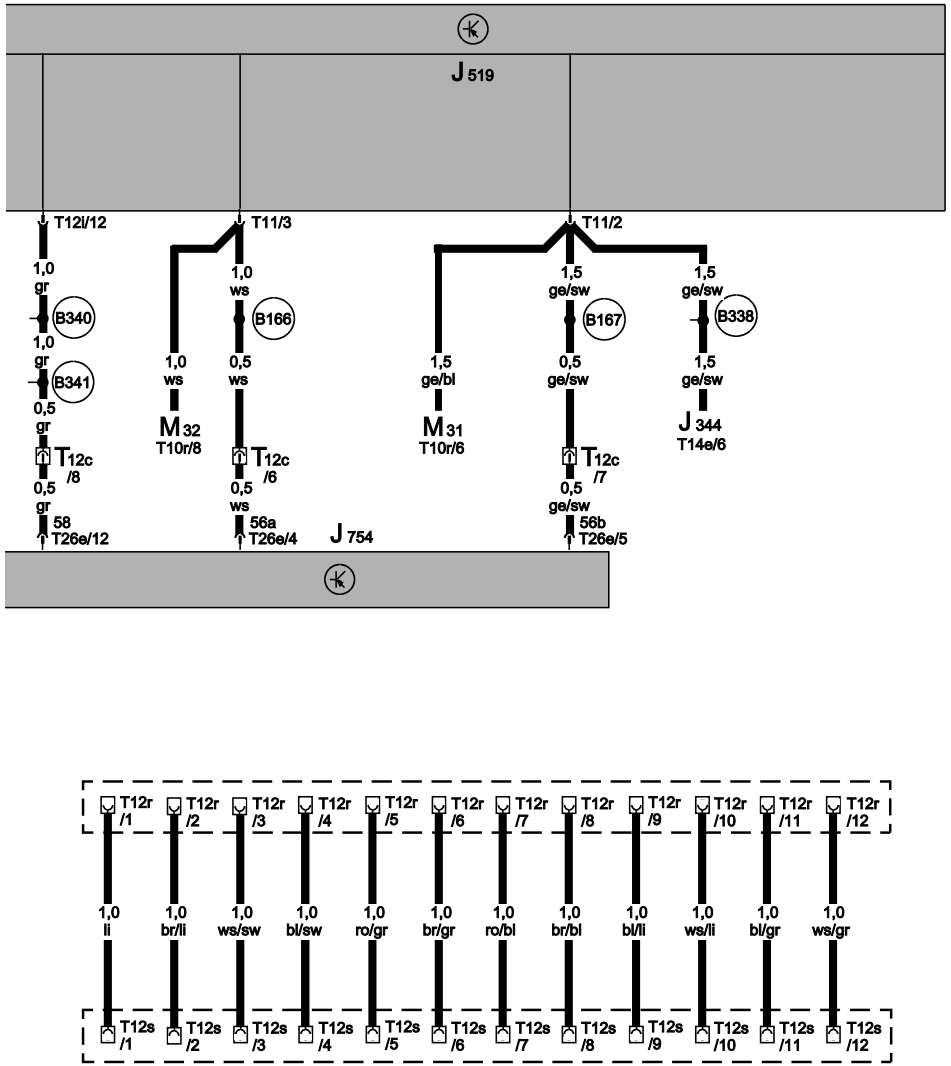


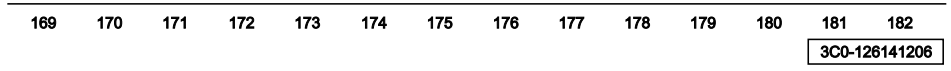
Accident data recorder, accident data recorder button, accident recorder warning lamp

E497	Accident data recorder button
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
K225	Accident recorder warning lamp
L76	Button illumination bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
T5aa	5-pin connector
T11	11-pin connector, black
T11a	11-pin connector, brown
T12c	12-pin connector, black, coupling point, left A-pillar
T14c	14-pin connector, coupling point, front left of bumper
T26e	26-pin connector
443	Earth connection 4, in siren system wiring harness
B581	Positive connection (left indicator lamp), in interior wiring harness
B582	Positive connection (right indicator lamp), interior wiring harness
X137	Positive connection 2 (30a), in siren wiring harness
X148	Positive connection 7 (30), in optional equipment wiring harness

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Accident data memory, right dipped beam bulb, right main beam bulb

J344	Right gas discharge bulb control unit
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
M31	Right headlight dipped beam bulb
M32	Right headlight main beam bulb
T10r	10-pin connector, black
T11	11-pin connector, black
T12c	12-pin connector, black, coupling point, left A-pillar
T12r	12-pin connector, coupling point for 2-way radio, right A-pillar
T12i	12-pin connector
T12s	12-pin connector, coupling point for two-way radio in luggage compartment
T14e	14-pin connector, on front right headlight
T26e	26-pin connector
B166	Connection (56a), in interior wiring harness
B167	Connection (56b), in interior wiring harness
B338	Connection 1 (56), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness

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Special equipment, police

⇒ **Radio system**
⇒ **Special signal system**
⇒ **Accident data memory**
⇒ **Connection for tachograph**

From November 2006

Notes:

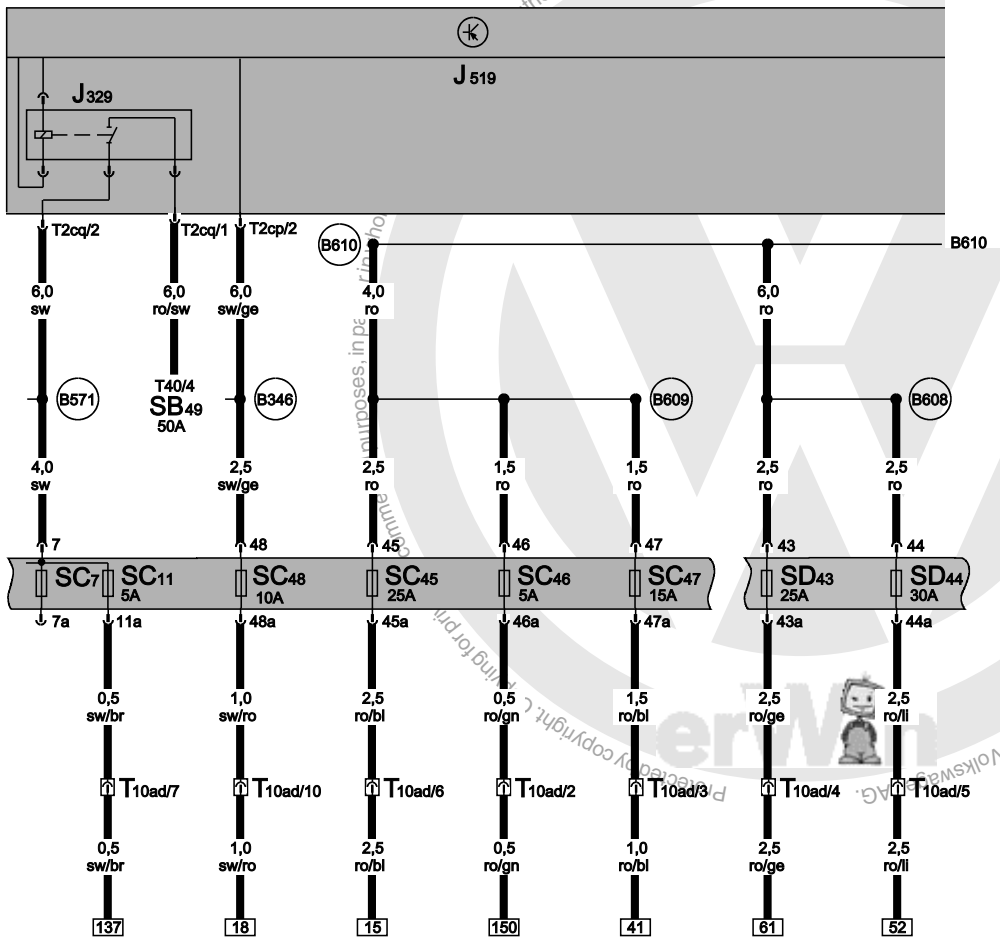
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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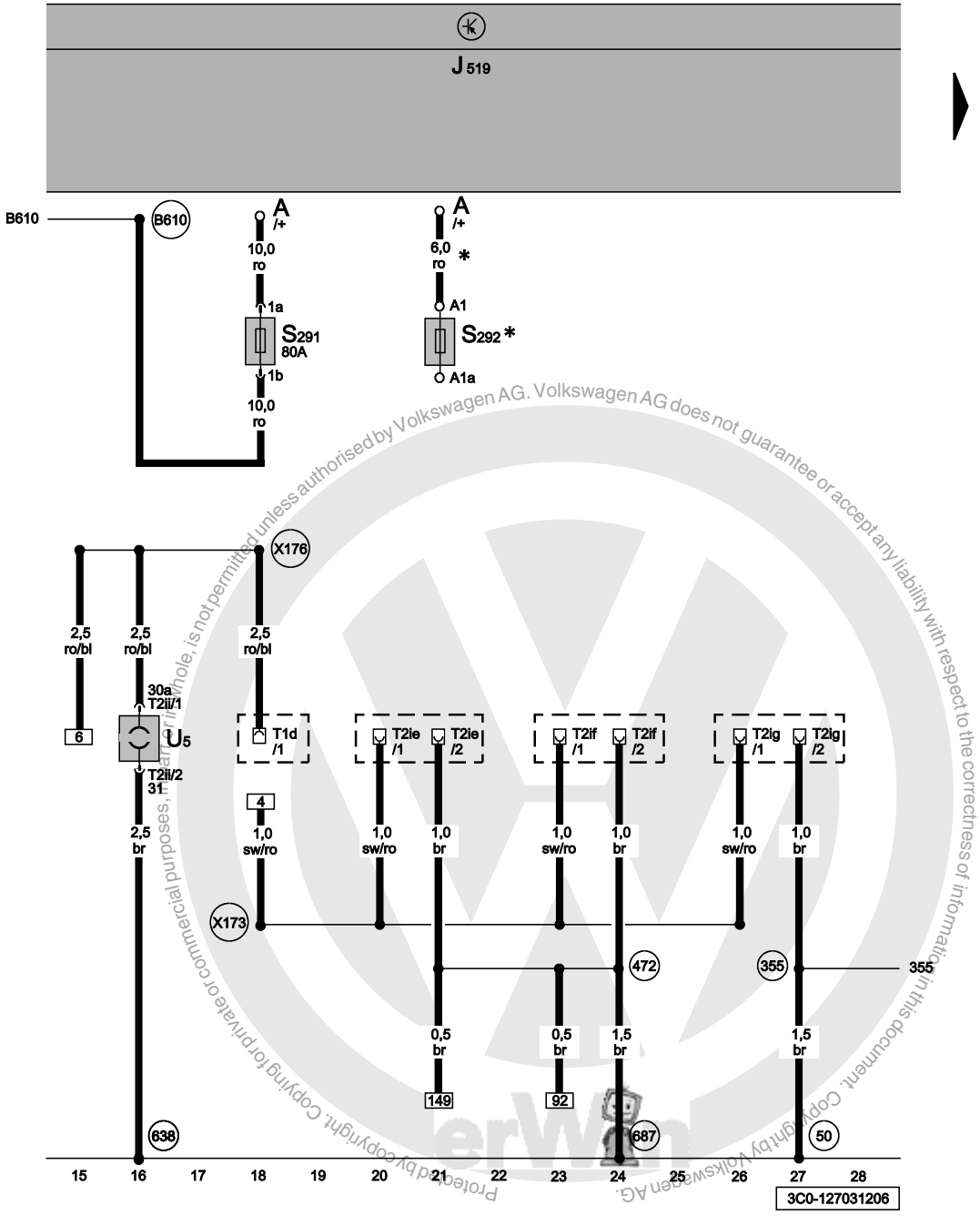


Fuses, terminal 15 voltage supply relay

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
SC11	Fuse 11 on fuse holder C
SC45	Fuse 45 on fuse holder C
SC46	Fuse 46 on fuse holder C
SC47	Fuse 47 on fuse holder C
SC48	Fuse 48 on fuse holder C
SD43	Fuse 43 on fuse holder D
SD44	Fuse 44 on fuse holder D
T2cp	2-pin connector
T2cq	2-pin connector
T10ad	10-pin connector, black, coupling point, left A-pillar
T40	40-pin connector
B346	Connection 1 (75), in main wiring harness
B571	Connection 38, in main wiring harness
B608	Connection 4, in interior wiring harness
B609	Connection 5, in interior wiring harness
B610	Connection 6, in interior wiring harness

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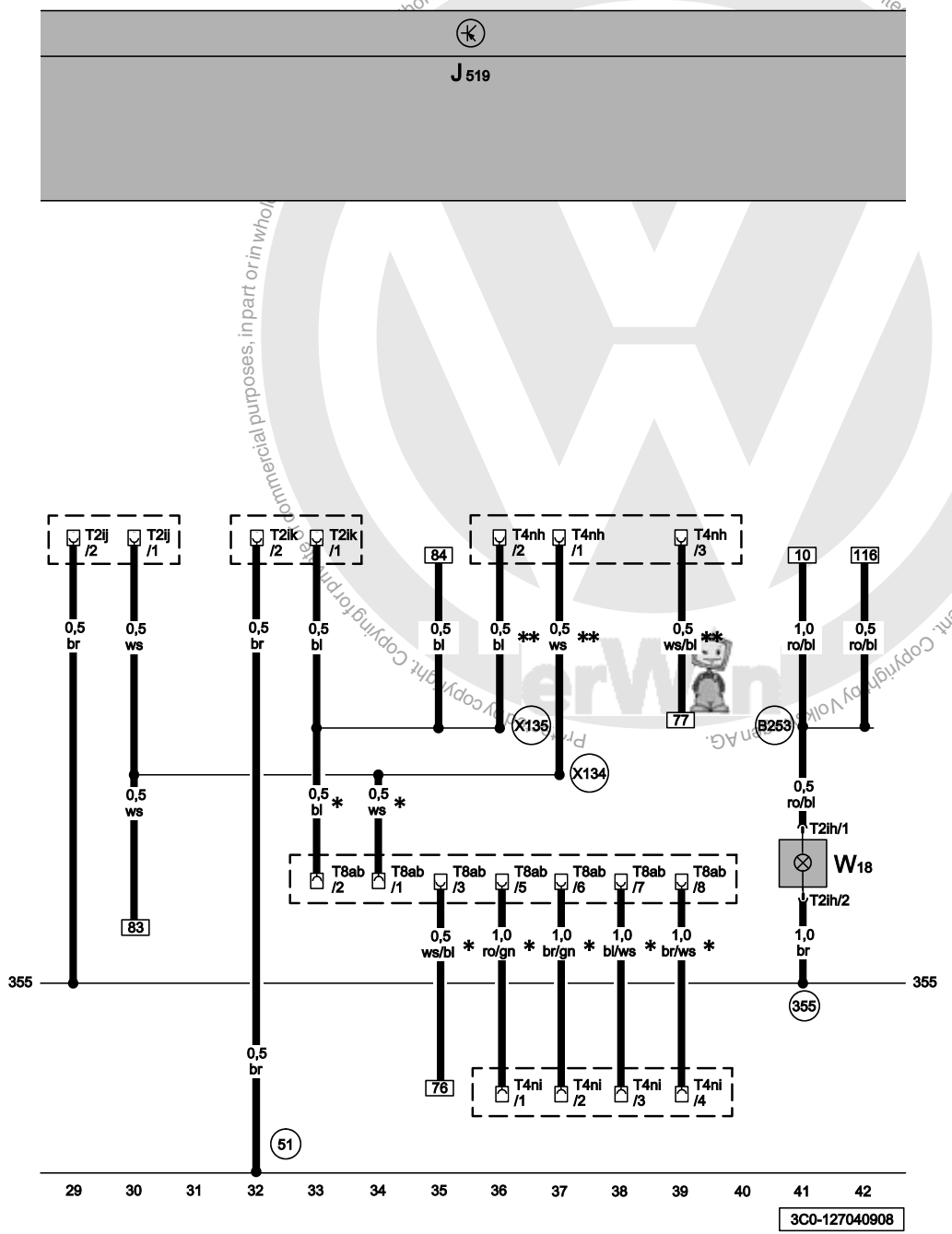


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Battery, fuse 1 for special vehicle, 12 V socket, charger coupling point

A	Battery
J519	Onboard supply control unit
S291	Special vehicle fuse 1, extra fuse box on left headlight
S292	Special vehicle fuse 2, extra fuse box on left headlight
T1d	Single pin connector, coupling point, near front centre console
T2ie	2-pin connector, charger coupling point, under front right seat
T2if	2-pin connector, charger coupling point, in centre console
T2ig	2-pin connector, charger coupling point in luggage compartment
T2ii	2-pin connector, behind glove compartment
U5	12 V socket, in luggage compartment on right
50	Earth point, on left in luggage compartment
355	Earth connection, in police wiring harness
472	Earth connection 6, in optional equipment wiring harness
638	Earth point, on right A-pillar
687	Earth point 1, on centre tunnel
B610	Connection 6, in interior wiring harness
X173	Positive connection (75a), in wiring harness for tone sequence system
X176	Positive connection 2 (30a), in optional equipment wiring harness
*	preparation voltage supply luggage compartment

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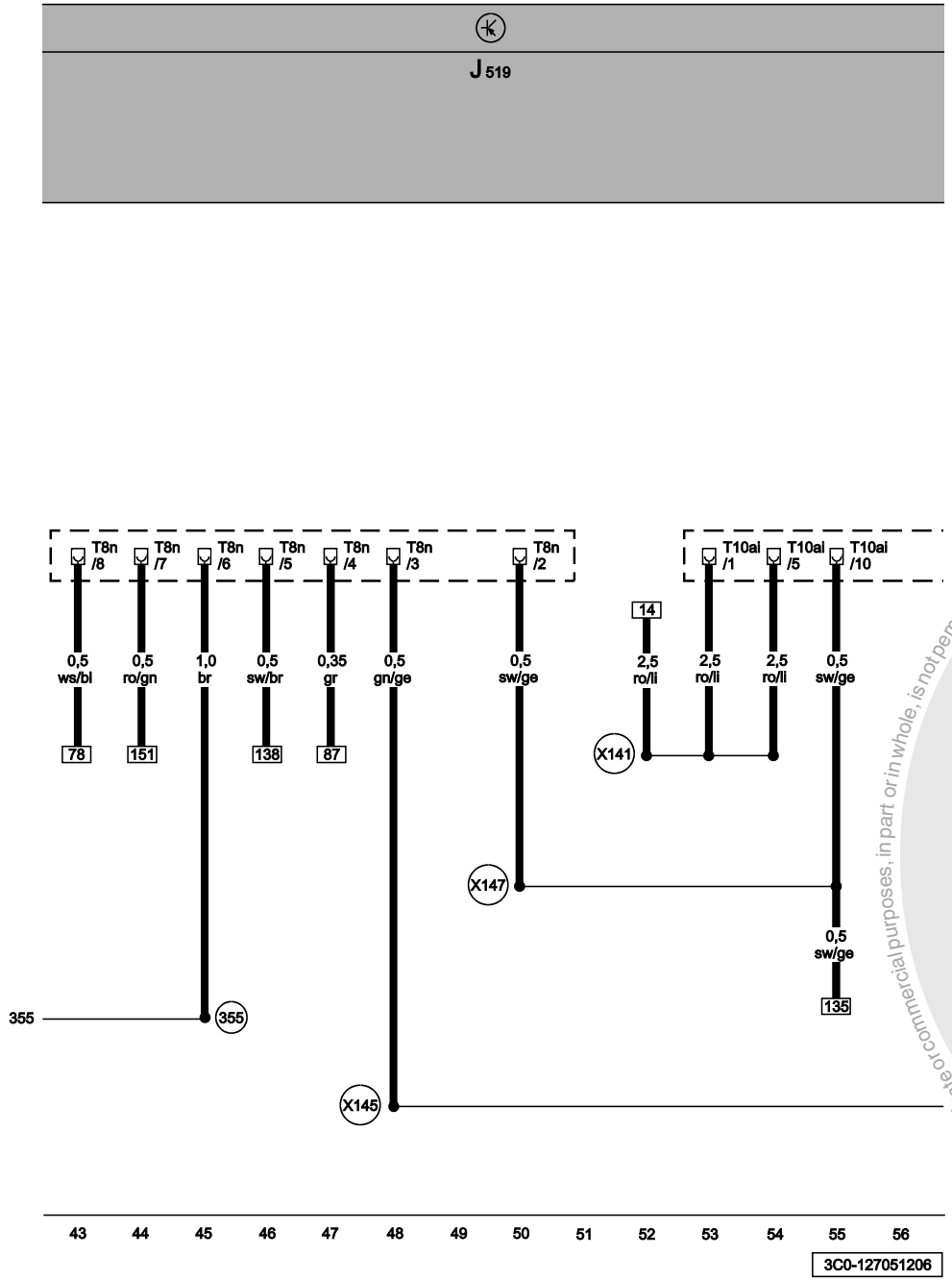


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Coupling point for left and right extra turn signal, coupling point for special signals II, luggage compartment light on left, coupling point for pressure chamber loudspeaker

J519	Onboard supply control unit
T2ih	2-pin connector
T2ij	2-pin connector, coupling point for left extra turn signal
T2ik	2-pin connector, coupling point for left extra turn signal
T4nh	4-pin connector, coupling point for special signals II
T4ni	4-pin connector, coupling point for pressure chamber loudspeaker, in front of E-box in engine compartment
T8ab	8-pin connector, coupling point for special signals II
W18	Luggage compartment light on left
51	Earth point, on right in luggage compartment
355	Earth connection, in police wiring harness
B253	Positive connection 1 (30a, police), in interior wiring harness
X134	Connection 1, in siren wiring harness
X135	Positive connection (15a), in wiring harness for tone sequence system
*	Applicable from May 2007
**	Applicable to April 2007

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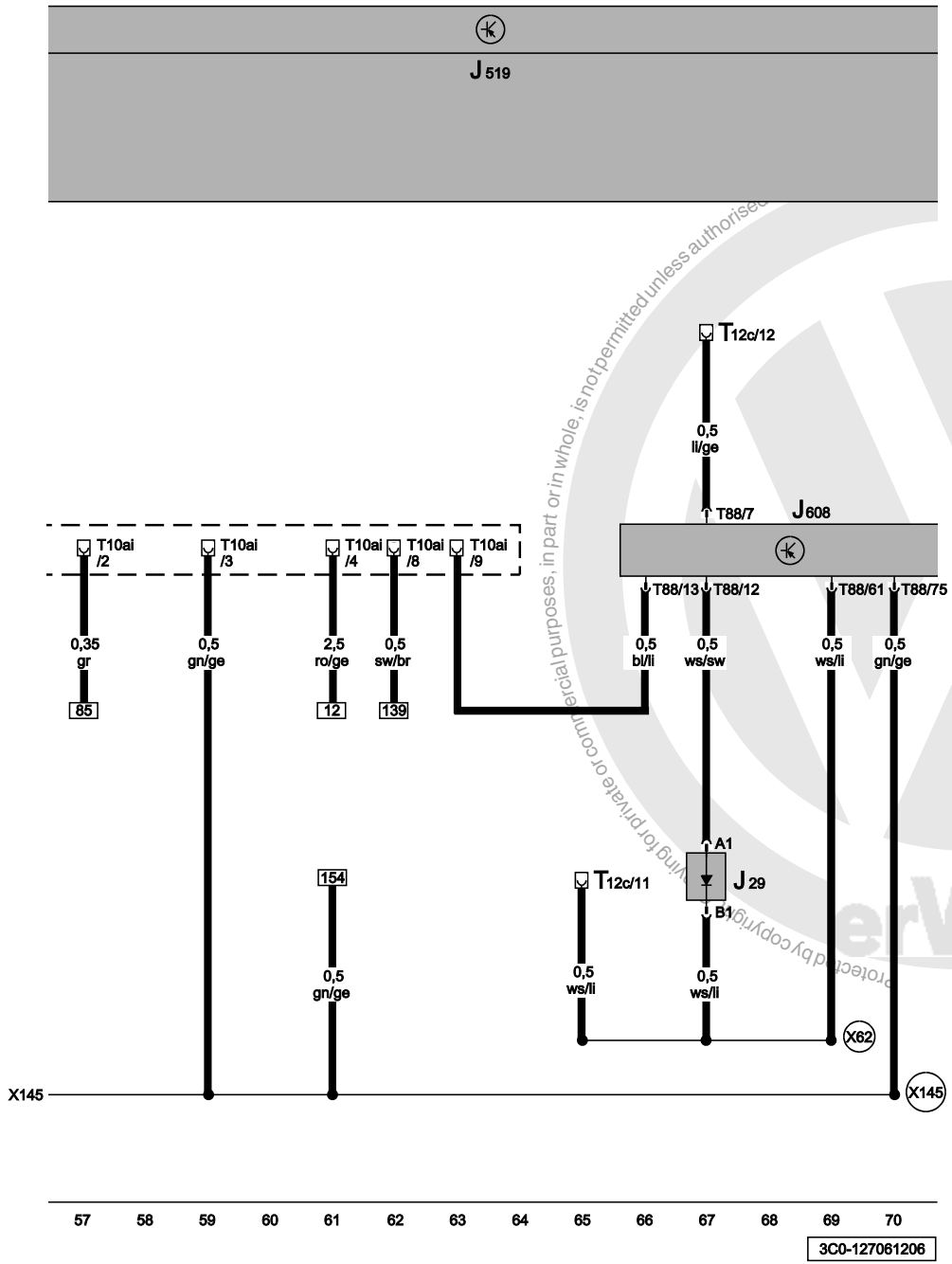


Coupling point for tachograph, coupling point for special signals

J519	Onboard supply control unit
T8n	8-pin connector, coupling point for tachograph in luggage compartment
T10ai	10-pin connector, coupling point for special signals, right A-pillar
355	Earth connection, in police wiring harness
X141	Positive connection 4 (30a), in siren wiring harness
X145	Connection 7, in optional equipment wiring harness
X147	Positive connection 6 (30), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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li	=	purple
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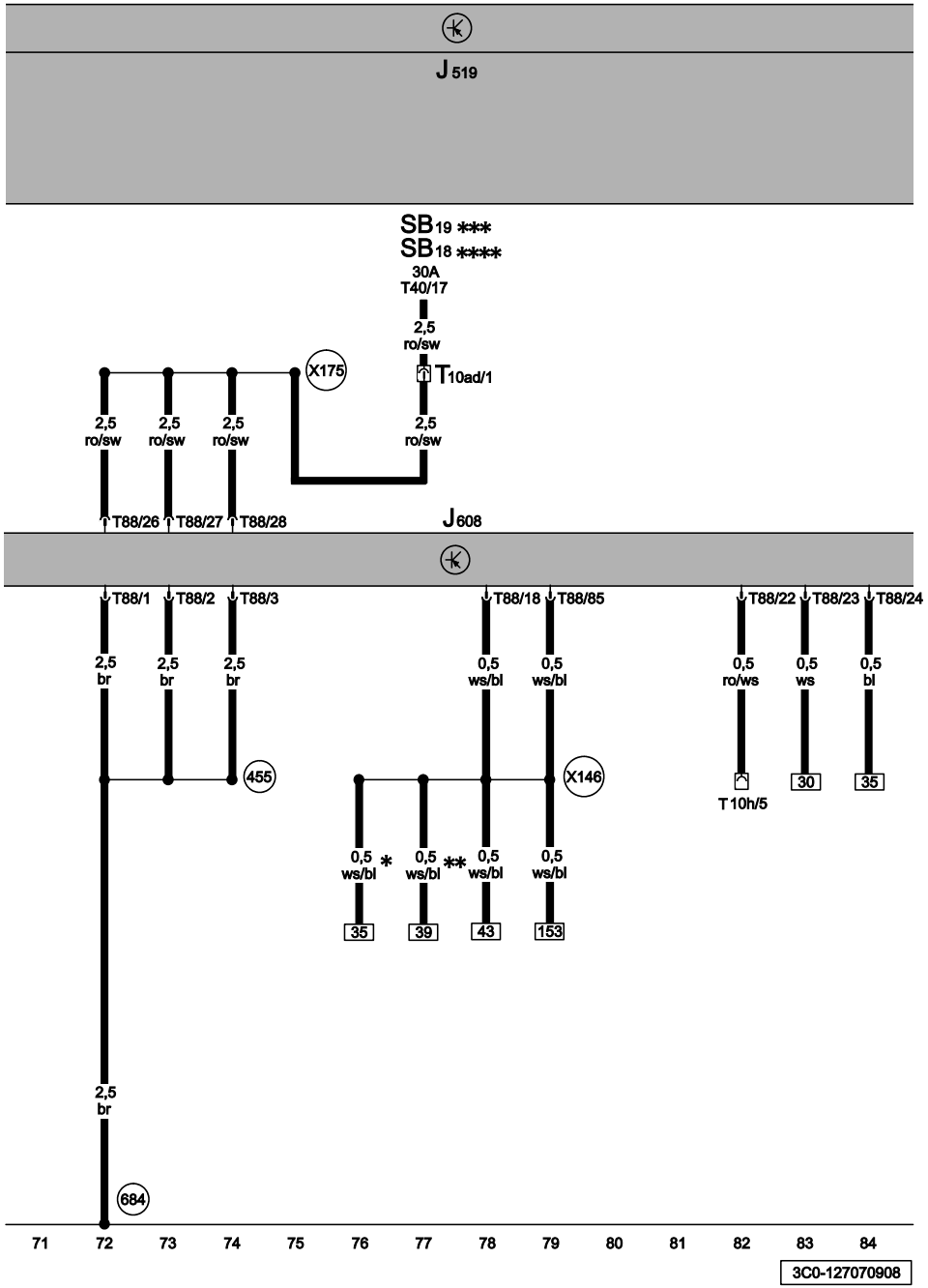


Special vehicle control unit, blocking diode, coupling point for special signals

J29	Blocking diode
J519	Onboard supply control unit
J608	Special vehicle control unit
T12c	12-pin connector, black, coupling point, left A-pillar
T10ai	10-pin connector, brown, coupling point for special signals, right A-pillar
T88	88-pin connector
X62	Positive connection 3 (15a), in optional equipment wiring harness
X145	Connection 7, in optional equipment wiring harness

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sw	=	black
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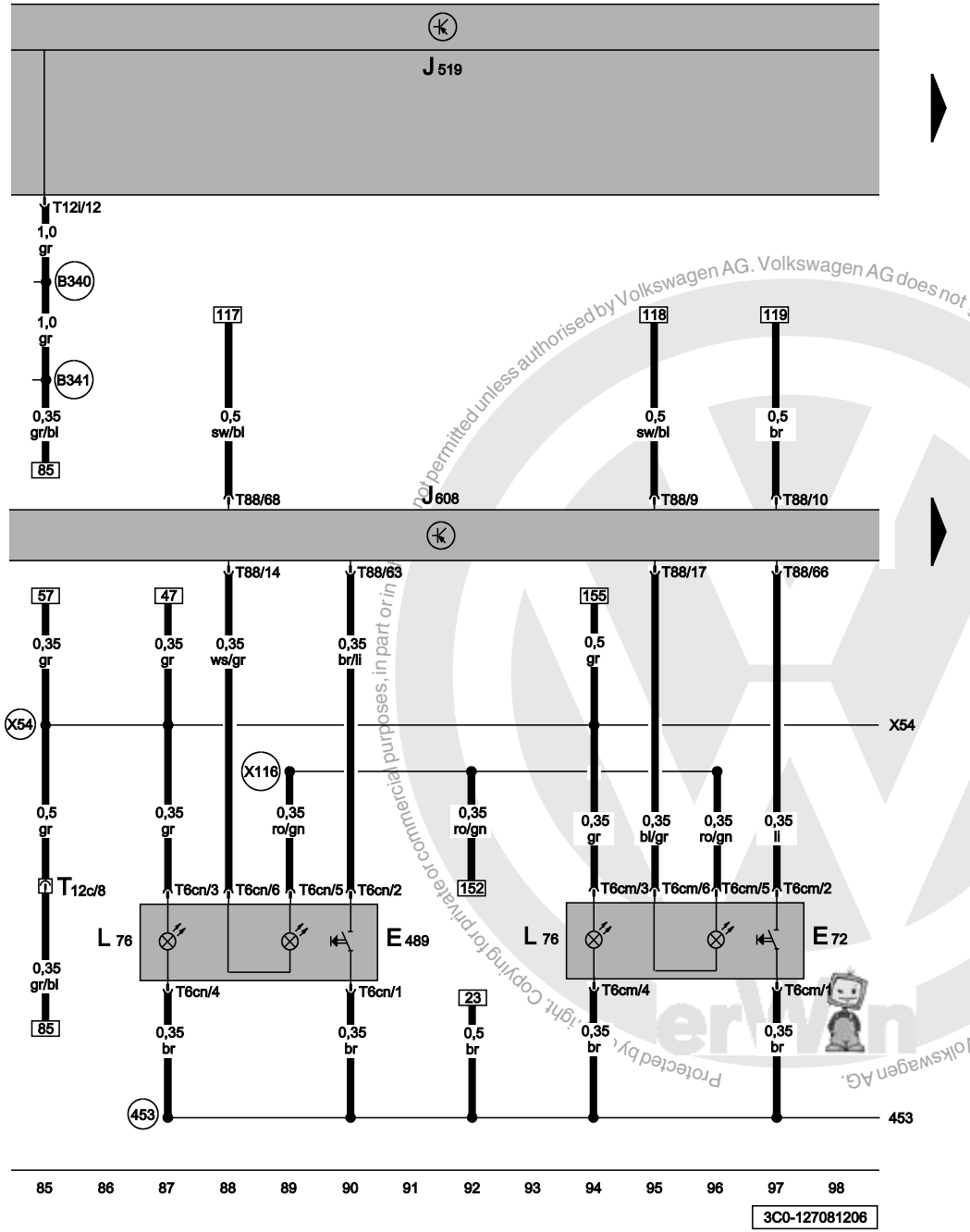


Special vehicle control unit, fuse, coupling point for rear lid

J519	Onboard supply control unit
J608	Special vehicle control unit
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T10ad	10-pin connector, black, coupling point, left A-pillar
T10h	10-pin connector, coupling point, rear lid right
T40	40-pin connector
T88	88-pin connector
455	Earth connection 5, in optional equipment wiring harness
684	Earth point on front of left side member
X146	Connection 8, in optional equipment wiring harness
X175	Positive connection (30a), in optional equipment wiring harness
*	Applicable from May 2007
**	Applicable to April 2007
***	Only models with E-box low
****	Only models with E-box high

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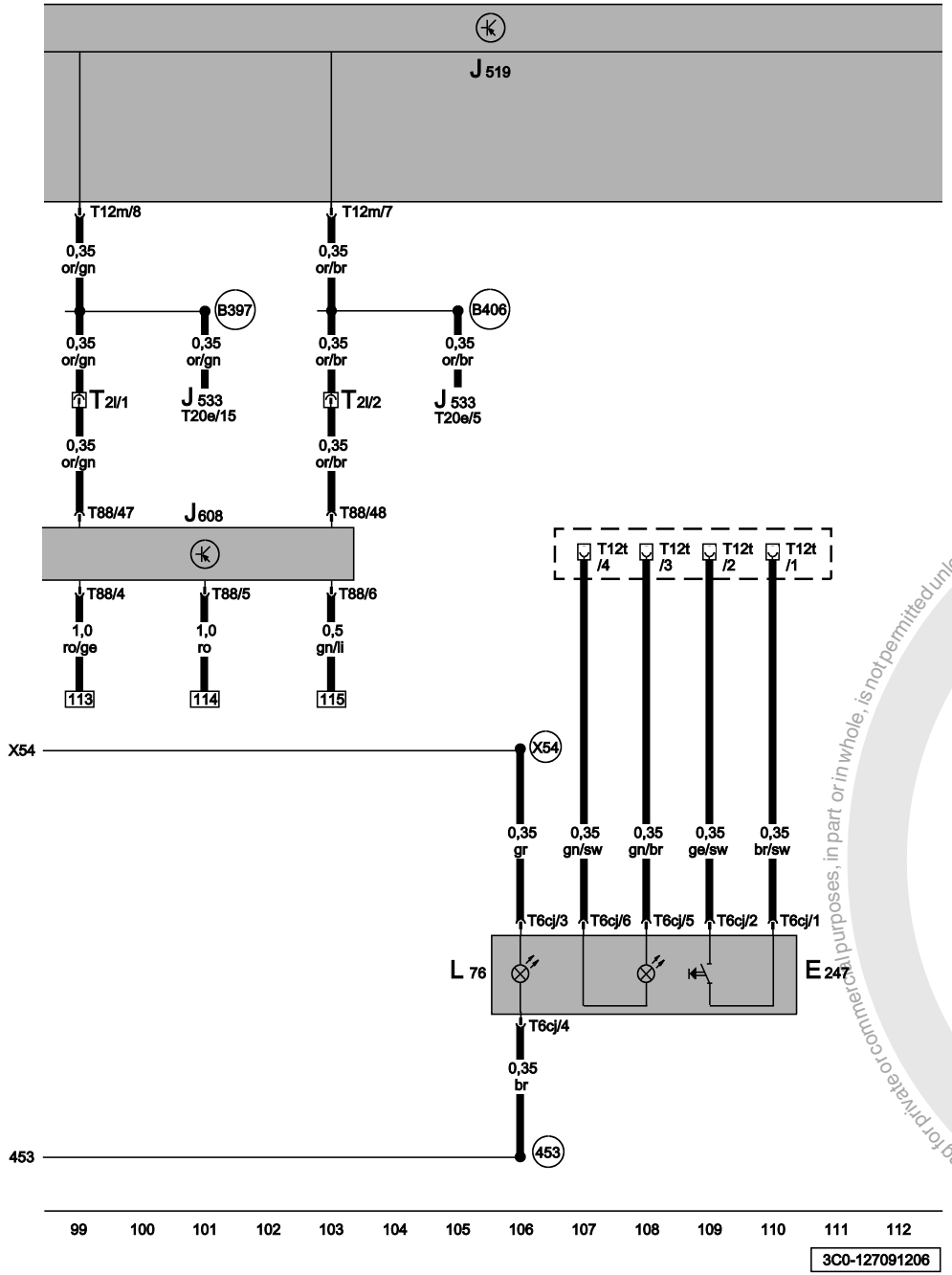


Special vehicle control unit, 2-way radio switch, engine continues to run with no key button

E72	2-way radio switch
E489	Engine continues to run with no key button
J519	Onboard supply control unit
J608	Special vehicle control unit
L76	Button illumination bulb
T6cm	6-pin connector, in centre console
T6cn	6-pin connector, in centre console
T12c	12-pin connector, black, coupling point, left A-pillar
T12i	12-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
X54	Positive connection (58), in optional equipment wiring harness
X116	Positive connection 2 (30), in optional equipment wiring harness

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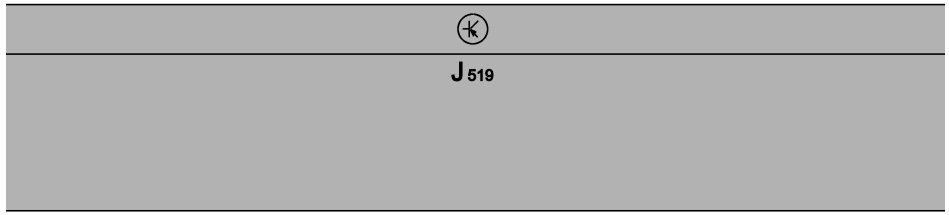


Special vehicle control unit, onboard supply control unit, switch to trip alarm, coupling point 2-way radio button

E247	Switch to trip alarm
J519	Onboard supply control unit
J608	Special vehicle control unit
J533	Data bus diagnostic interface
L76	Button illumination bulb
T2l	2-pin connector
T6cj	6-pin connector
T12m	12-pin connector, black
T12t	12-pin connector, coupling point for two-way radio in luggage compartment
T20e	20-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
X54	Positive connection (58), in optional equipment wiring harness

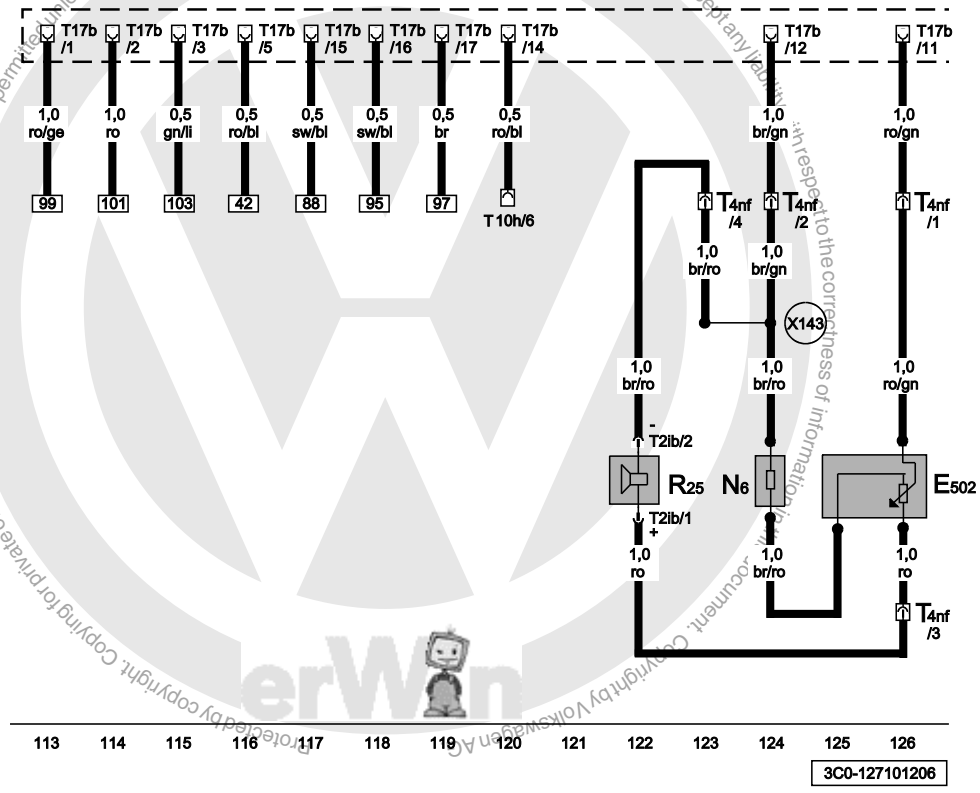
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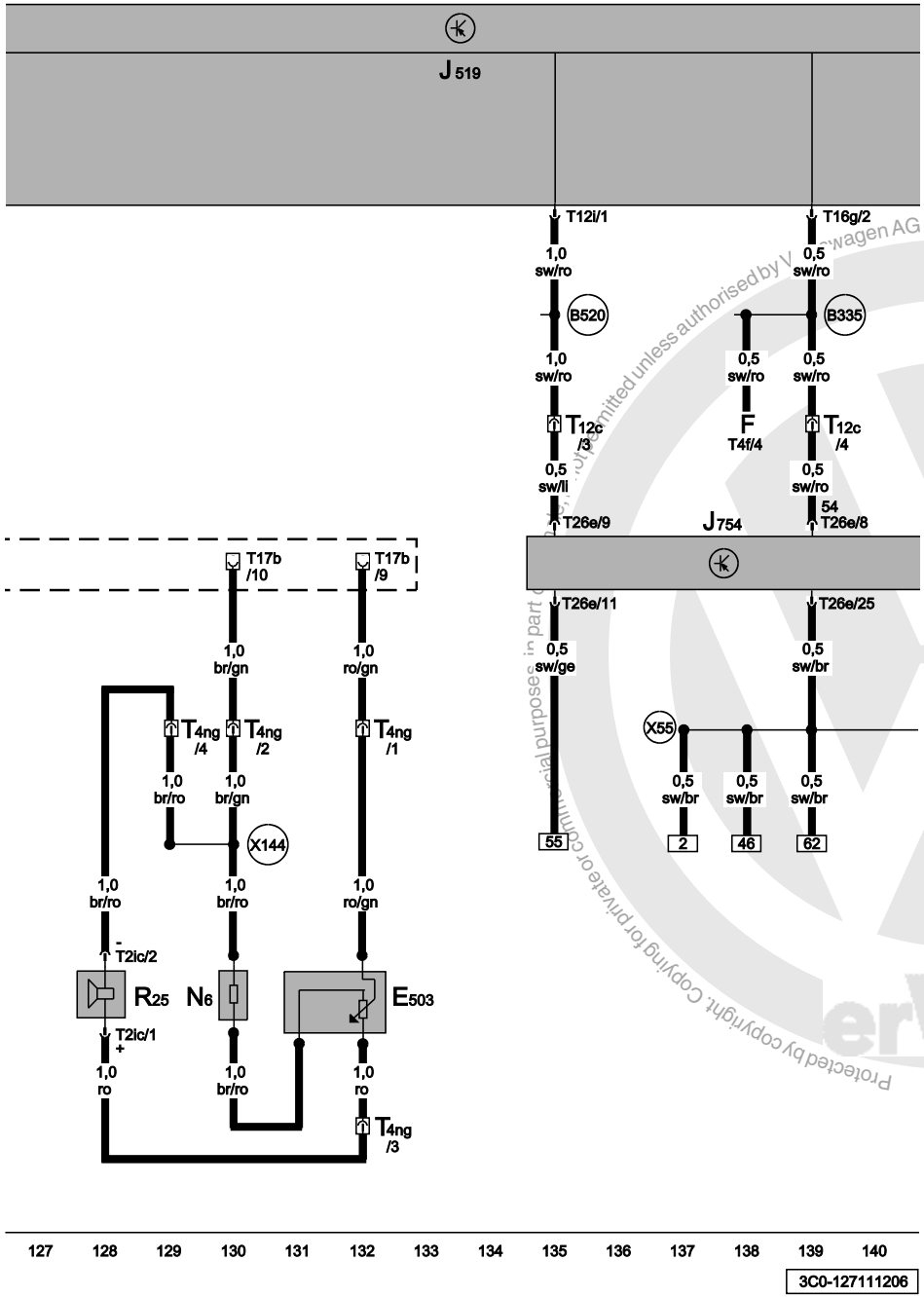
2-way radio loudspeaker volume control 1, coupling point for 2-way radio, coupling point for rear lid, 2-way radio speaker

E502	1-way radio loudspeaker volume control 2
J519	Onboard supply control unit
N6	Series resistor
R25	Two-way radio loudspeaker
T2ib	2-pin connector
T4nf	4-pin connector, on 1-way radio loudspeaker volume control 2
T10h	10-pin connector, coupling point, rear lid right
T17b	17-pin connector, coupling point for two-way radio in luggage compartment
X143	Positive connection 4 (30), in optional equipment wiring harness



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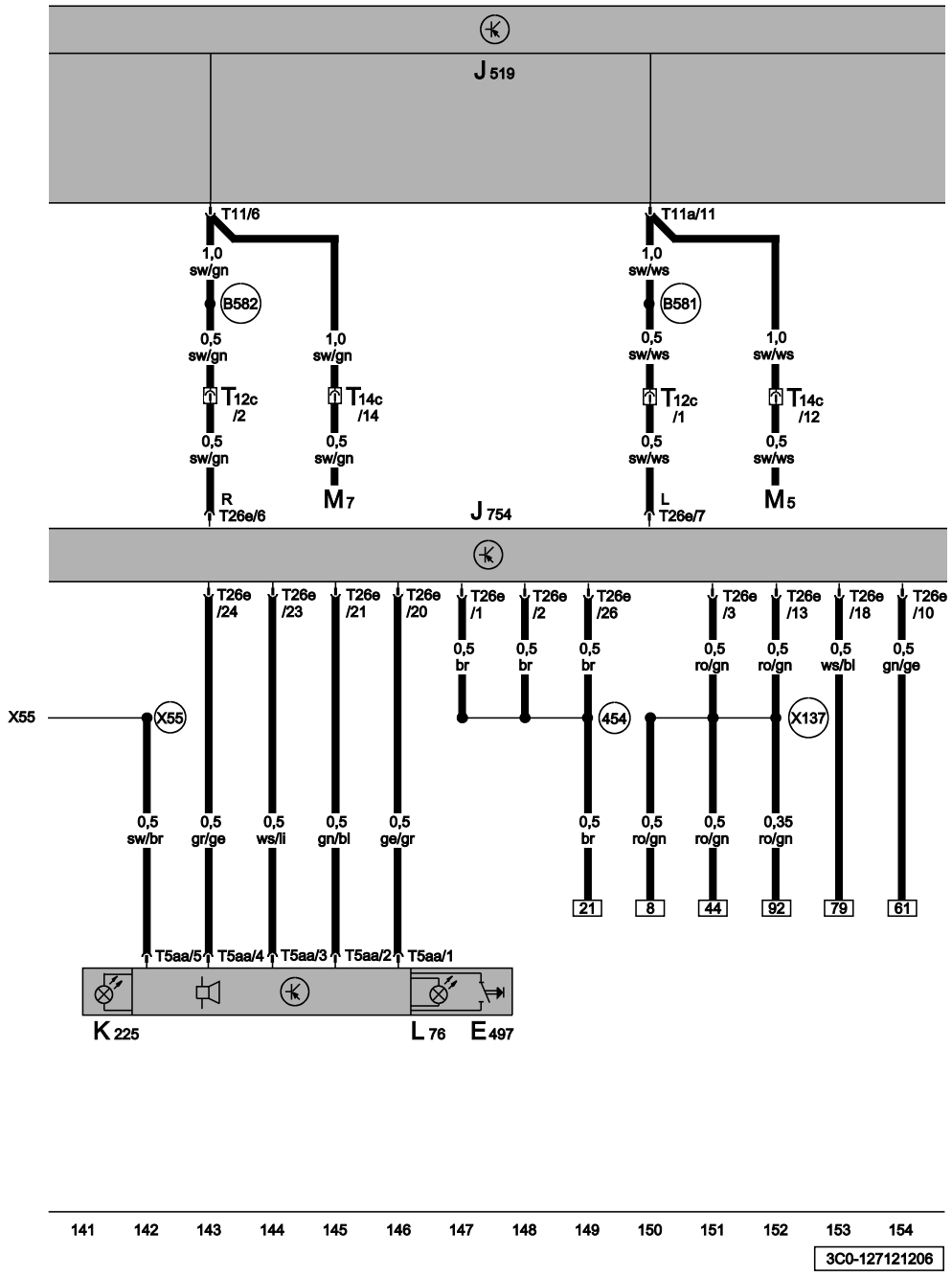


2-way radio loudspeaker volume control 2, coupling point for 2-way radio, 2-way radio speaker, onboard supply control unit, accident data memory

E503	2-way radio loudspeaker volume control 2
F	Brake light switch
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
N6	Series resistor
R25	Two-way radio loudspeaker
T2ic	2-pin connector
T4f	4-pin connector
T4ng	4-pin connector, on 2-way radio loudspeaker volume control 2
T12c	12-pin connector, black, coupling point, left A-pillar
T12i	12-pin connector, black
T16g	16-pin connector, black
T17b	17-pin connector, coupling point for two-way radio in luggage compartment
T26e	26-pin connector
B335	Connection 1 (54), in main wiring harness
B520	Connection (RL), in main wiring harness
X55	Positive connection (15), in optional equipment wiring harness
X144	Positive connection 5 (30), in optional equipment wiring harness

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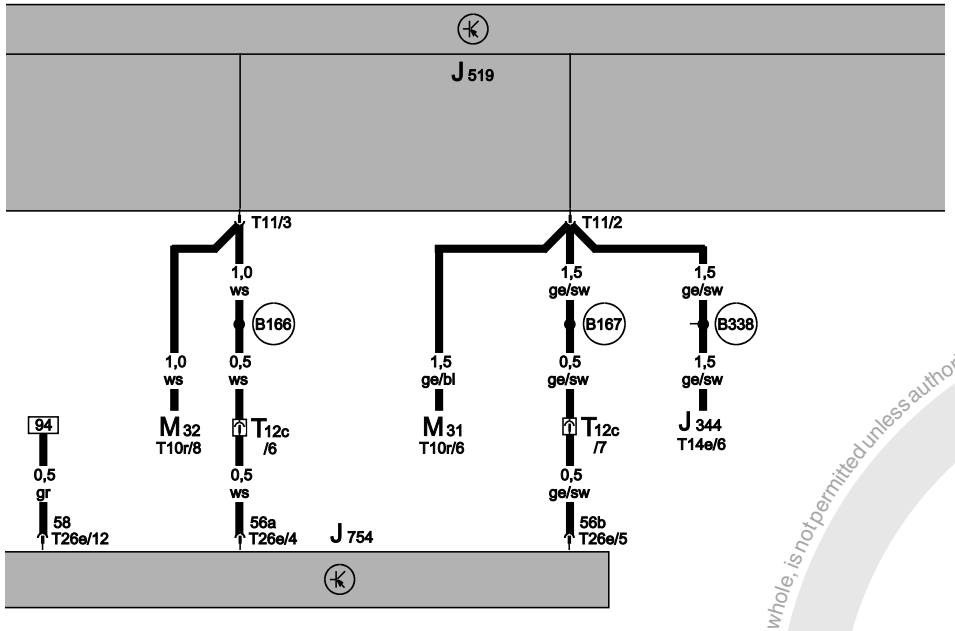


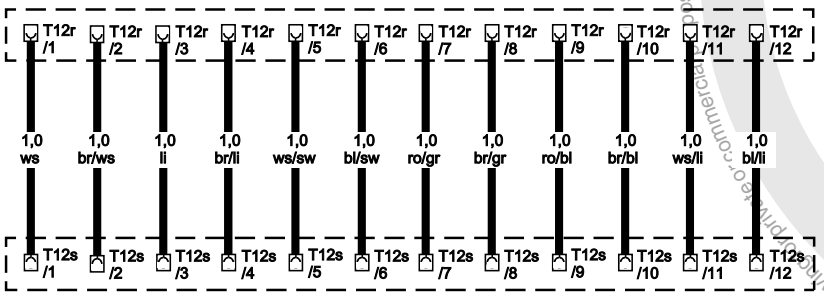
Accident data recorder, accident data recorder button, accident recorder warning lamp

E497	Accident data recorder button
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
K225	Accident recorder warning lamp
L76	Button illumination bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
T5aa	5-pin connector
T11	11-pin connector, black
T11a	11-pin connector, brown
T12c	12-pin connector, black, coupling point, left A-pillar
T14c	14-pin connector, coupling point, front left of bumper
T26e	26-pin connector
454	Earth connection 4, in optional equipment wiring harness
B581	Positive connection (left indicator lamp), in interior wiring harness
B582	Positive connection (right indicator lamp), interior wiring harness
X55	Positive connection (15), in optional equipment wiring harness
X137	Positive connection 2 (30a), in siren wiring harness

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155 156 157 158 159 160 161 162 163 164 165 166 167 168

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Accident data memory, right dipped beam bulb, right main beam bulb, special vehicle fuse 2

J344	Right gas discharge bulb control unit
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
M31	Right headlight dipped beam bulb
M32	Right headlight main beam bulb
T10r	10-pin connector, black
T11	11-pin connector, black
T12c	12-pin connector, black, coupling point, left A-pillar
T12r	12-pin connector, coupling point for 2-way radio, right A-pillar
T12s	12-pin connector, coupling point for two-way radio in luggage compartment
T14e	14-pin connector, on front right headlight
T26e	26-pin connector
B166	Connection (56a), in interior wiring harness
B167	Connection (56b), in interior wiring harness
B338	Connection 1 (56), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Driving school equipment

⇒ **Only models with manual gearbox**

⇒ **With special vehicle control unit**

From November 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth points

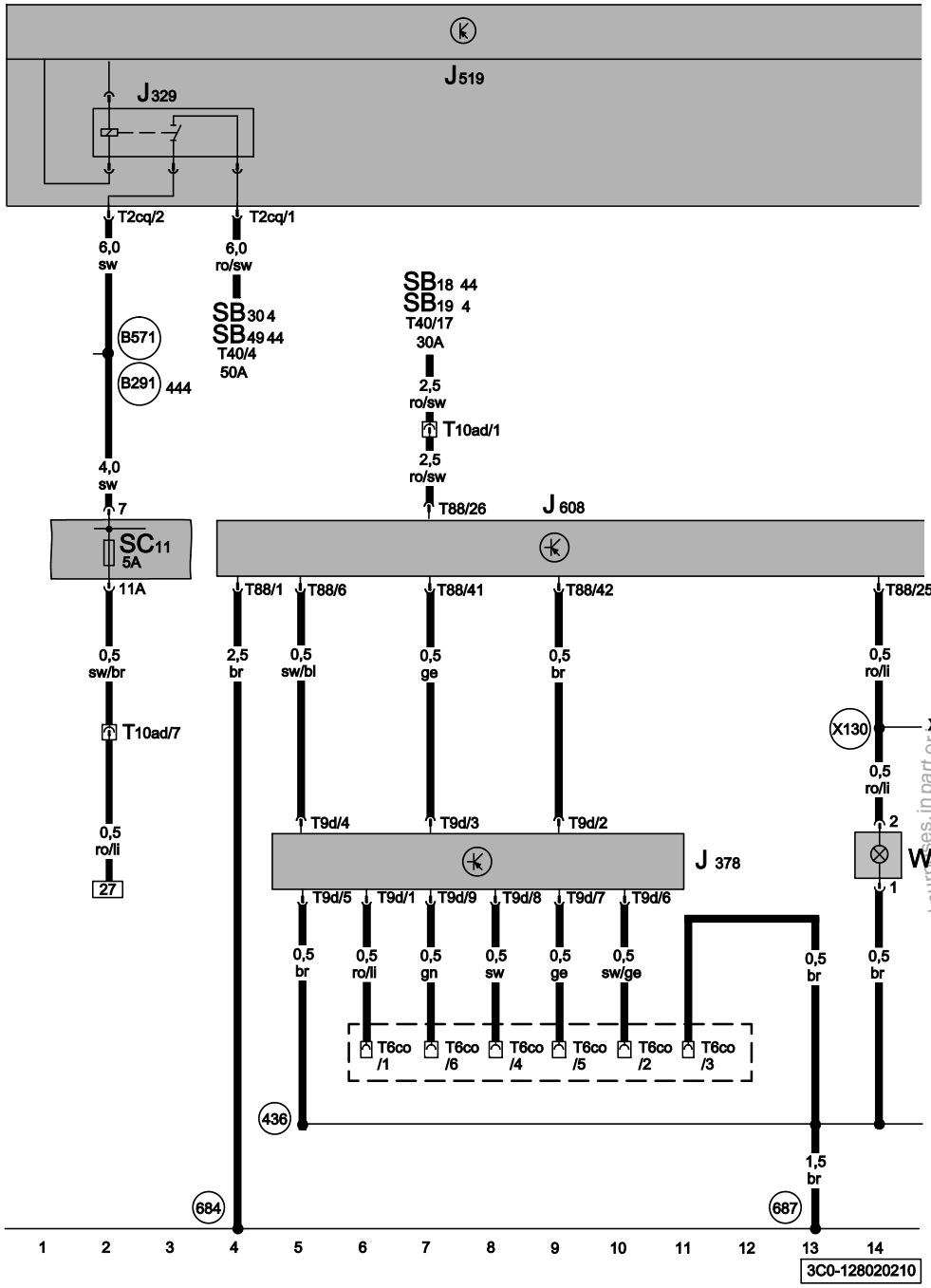
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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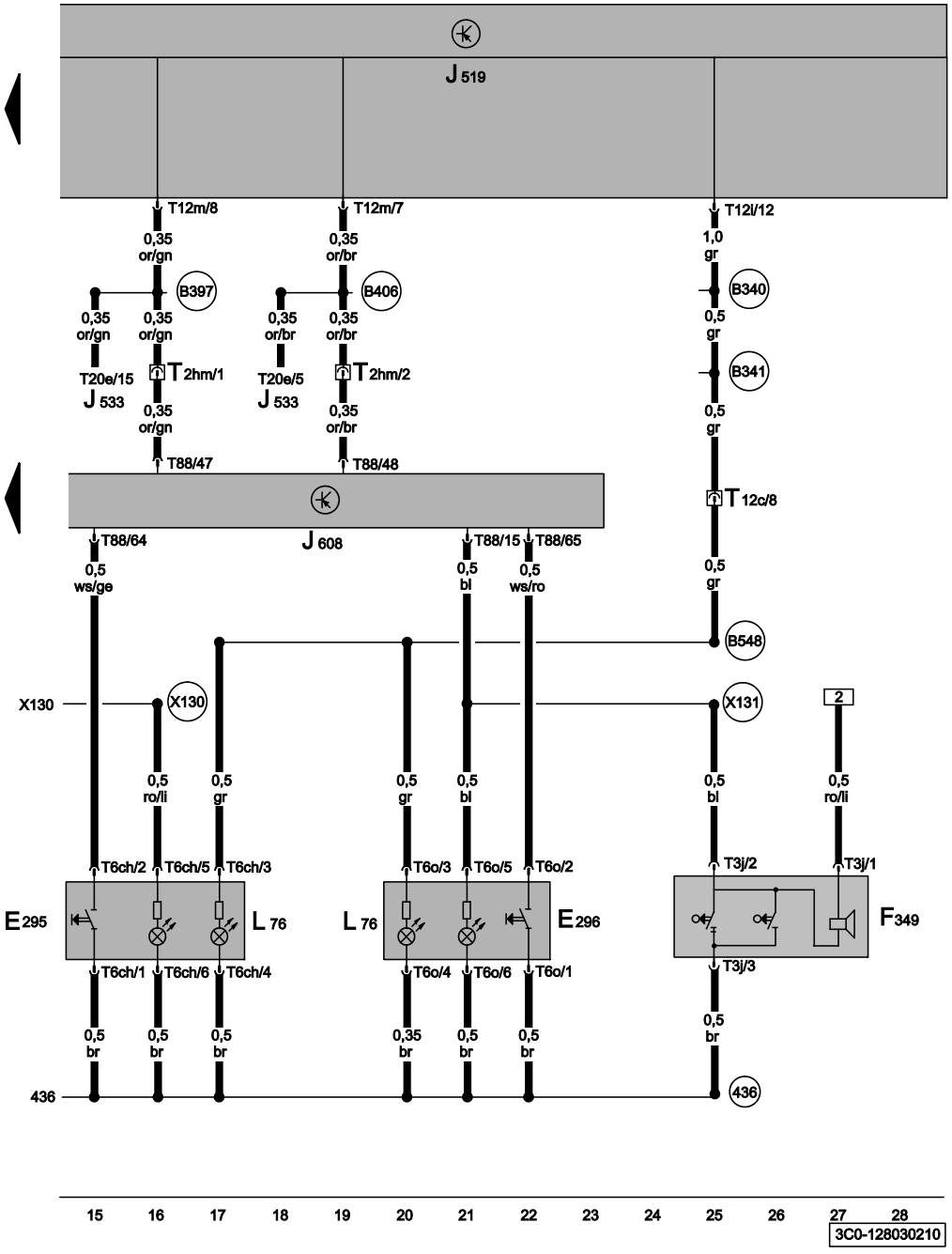


Terminal 15 voltage supply relay, PDA control unit, onboard supply control unit, special vehicle control unit, fuses, footwell light for driving school

J329	Terminal 15 voltage supply relay
J378	PDA control unit
J519	Onboard supply control unit
J608	Special vehicle control unit
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC11	Fuse 11 on fuse holder C
T2cq	2-pin connector
T6co	6-pin connector, coupling point PDA-interface
T9d	9-pin connector
T10ad	10-pin connector
T40	40-pin connector
T88	88-pin connector
W56	Driving school vehicle footwell illumination
436	Earth connection 1, in driving school wiring harness
684	Earth point, on front of left side member
687	Earth point 1, on centre tunnel
B291	Connection 15 (15a), in main wiring harness
B571	Connection 38, in main wiring harness
X130	Connection 3, in optional equipment wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Applicable from May 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
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Special vehicle control unit, footwell light switch, warning buzzer switch, warning buzzer for pedal switch on front passenger side

E295	Footwell light switch
E296	Warning buzzer switch
F349	Warning buzzer for pedal switch on front passenger side
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J608	Special vehicle control unit
L76	Button illumination bulb
T2hm	2-pin connector
T3j	3-pin connector
T6o	6-pin connector
T6ch	6-pin connector
T12c	12-pin connector
T12i	12-pin connector
T12m	12-pin connector
T20e	20-pin connector
T88	88-pin connector
436	Earth connection 1, in driving school wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B548	Connection (58), in driving school vehicle wiring harness
X130	Connection 3, in optional equipment wiring harness
X131	Connection 4, in optional equipment wiring harness

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Driving school equipment

⇒ **With no special vehicle control unit**

From November 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth points

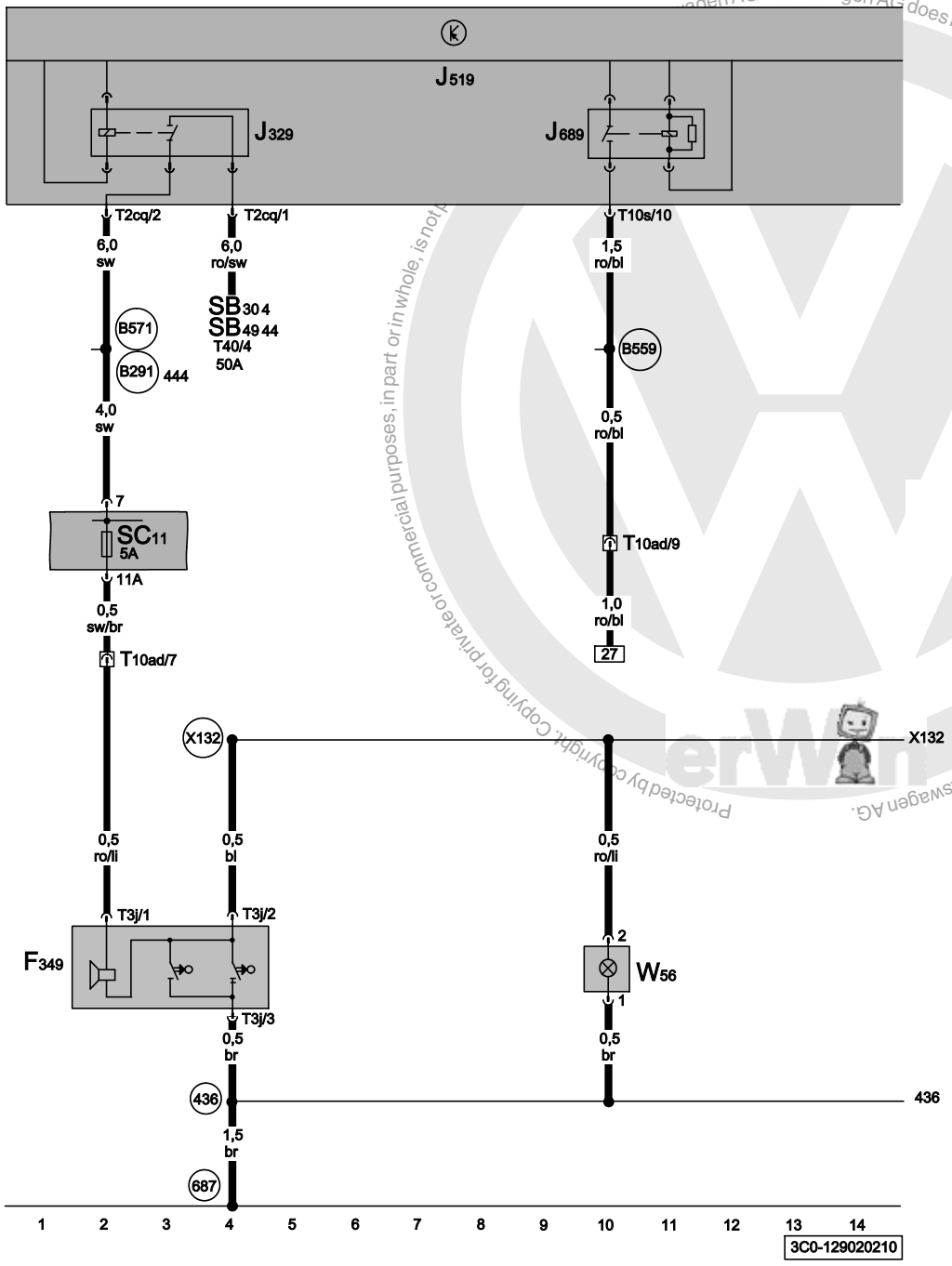
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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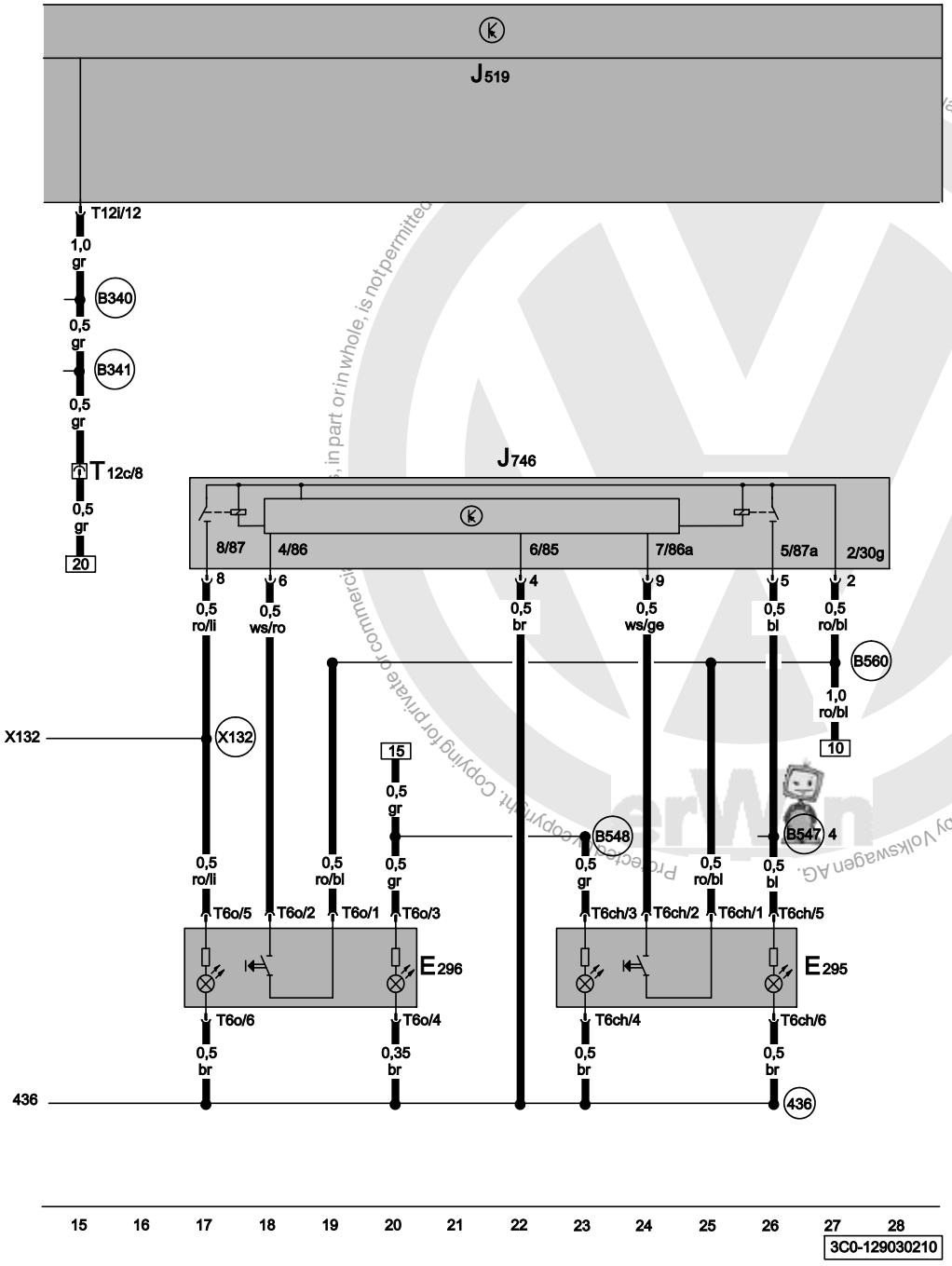


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Warning buzzer for pedal switch on front passenger side, terminal 15 voltage supply relay, terminal 30 voltage supply relay, fuses

F349	Warning buzzer for pedal switch on front passenger side
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC11	Fuse 11 on fuse holder C
T2cq	2-pin connector
T3j	3-pin connector
T10ad	10-pin connector
T10s	10-pin connector
T40	40-pin connector
W56	Driving school vehicle footwell illumination
436	Earth connection 1, in driving school wiring harness
687	Earth point 1, on centre tunnel
B291	Connection 15 (15a), in main wiring harness
B559	Connection 1 (30g), in main wiring harness
B571	Connection 38, in main wiring harness
X132	Connection 5, in optional equipment wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Applicable from May 2008

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Driving school mode relay, footwell light switch, warning buzzer switch, driving school vehicle footwell illumination, onboard supply control unit

E295	Footwell light switch
E296	Warning buzzer switch
J519	Onboard supply control unit
J746	Driving school mode relay
T6o	6-pin connector, red
T6ch	6-pin connector
T12c	12-pin connector, black, coupling point, left A-pillar
T12i	12-pin connector
436	Earth connection 1, in driving school wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B547	Connection 1, in driving school vehicle wiring harness
B548	Connection (58), in driving school vehicle wiring harness
B560	Positive connection 1 (30g), in driving school wiring harness
X132	Connection 5, in optional equipment wiring harness
*	Applicable to October 2008

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1.4 l/90 kW - Motronic, engine code CAXA

From May 2007

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

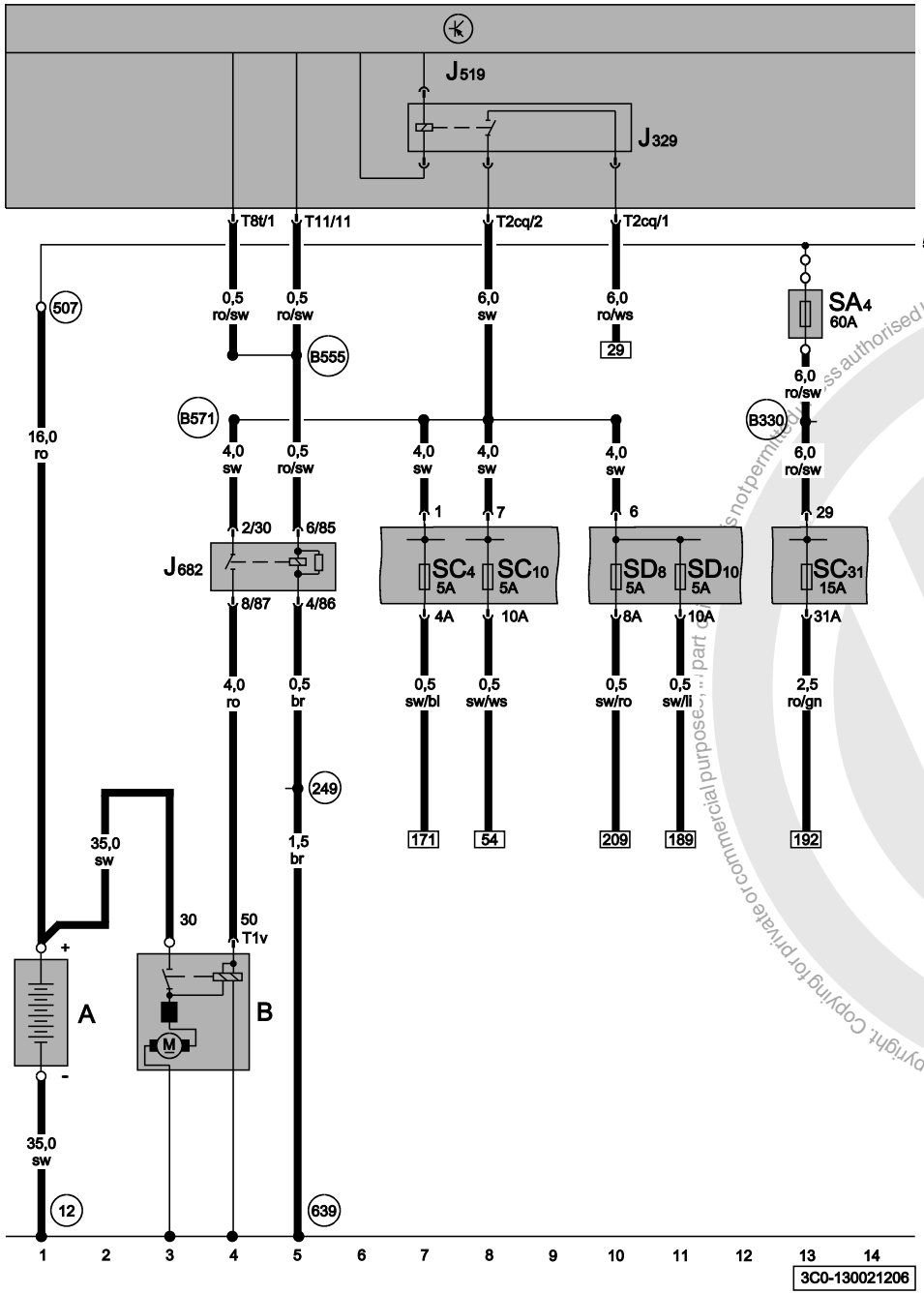
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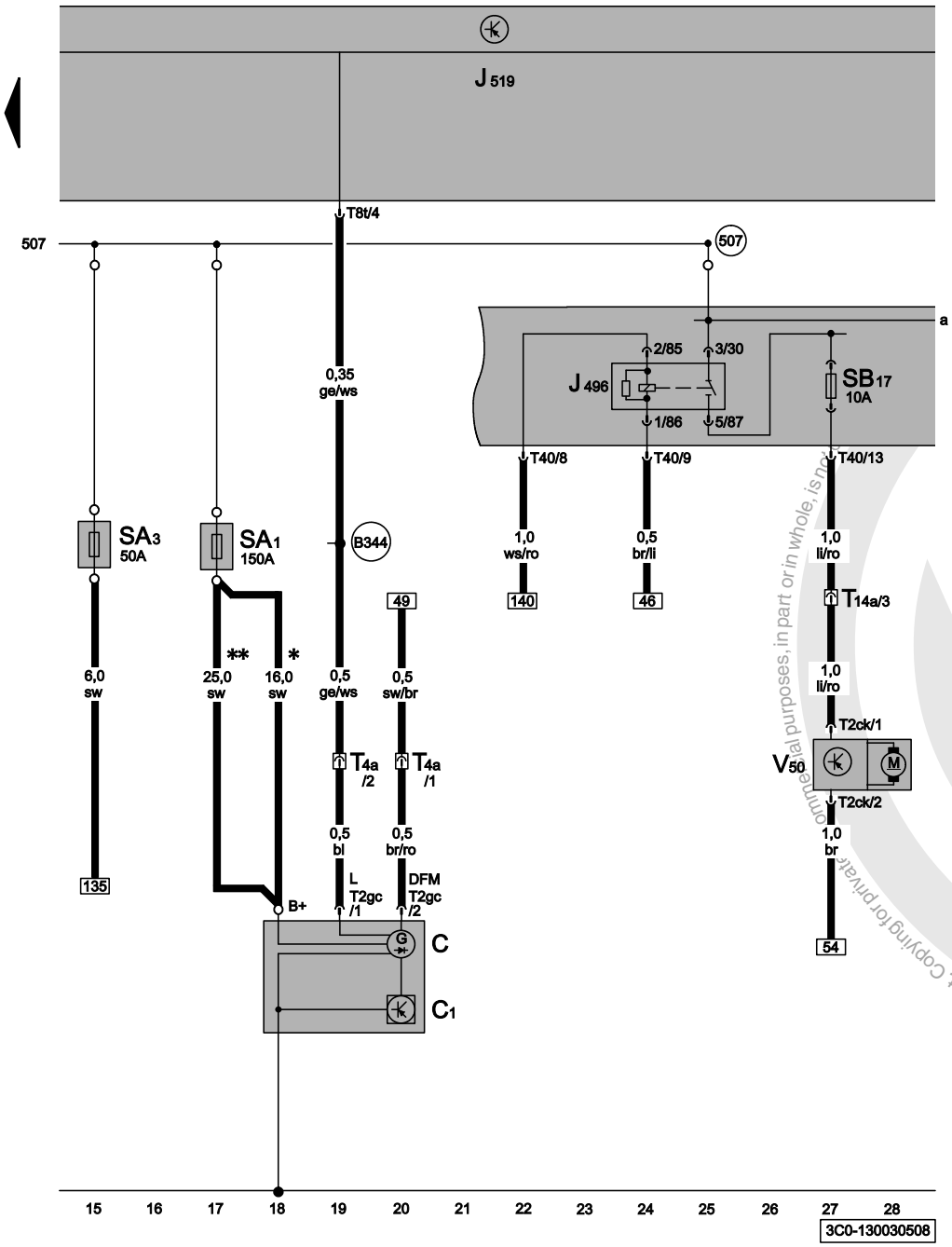


Battery, starter, terminal 15 voltage supply, terminal 50 voltage supply, fuses

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, (433)
SA4	Fuse 4 on fuse holder A
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
SD10	Fuse 10 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
507	Threaded connection (30), on battery fuse holder
639	Earth point, left A-pillar
B330	Connection 19 (30a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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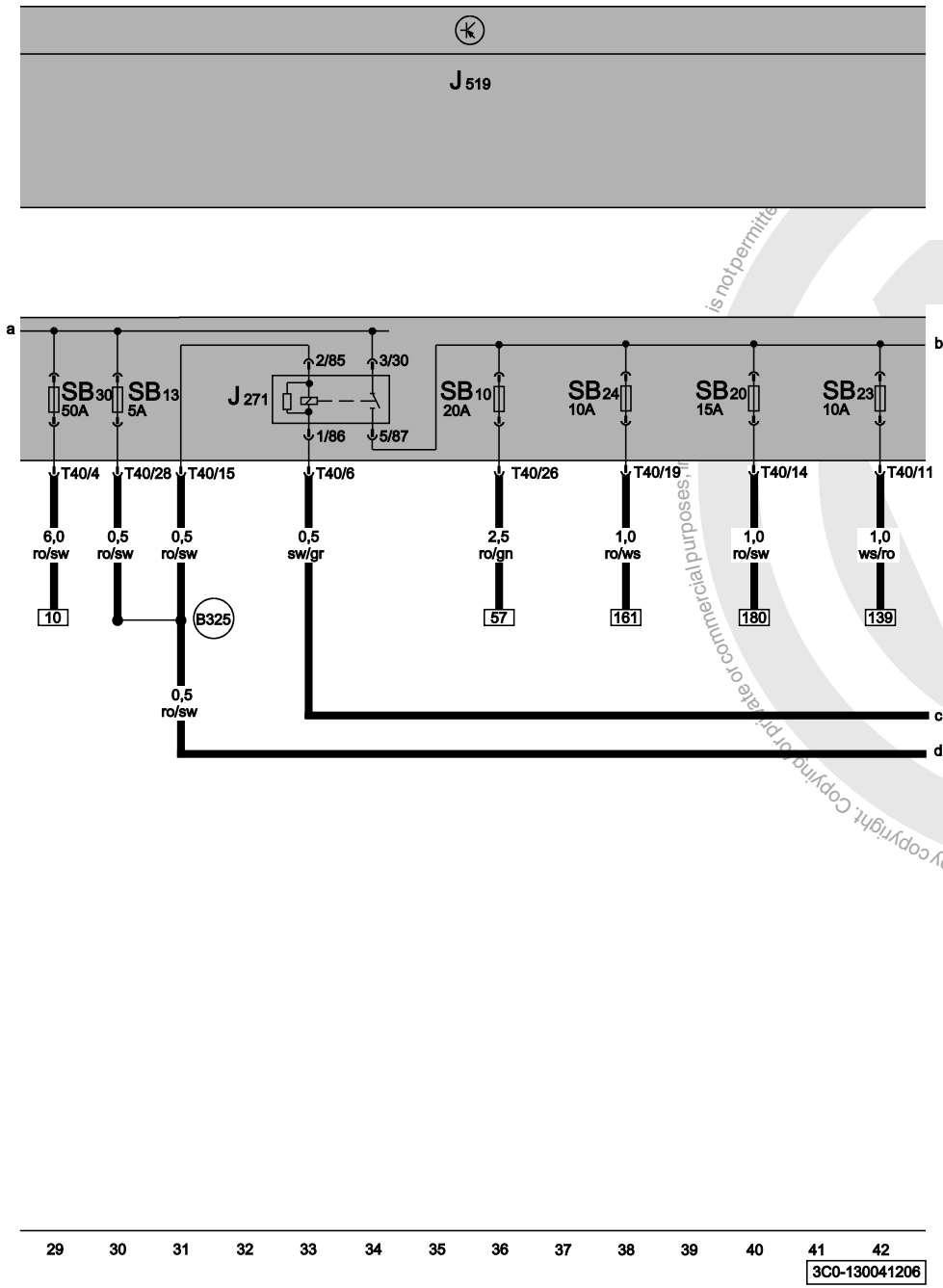


Alternator, additional coolant pump relay, coolant circulation pump, fuses

C	Alternator
C1	Voltage regulator
J496	Additional coolant pump relay (100)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
T2ck	2-pin connector
T2gc	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T14a	14-pin connector, coupling point 1, on left in engine compartment
T40	40-pin connector
V50	Coolant circulation pump
(507)	Threaded connection (30), on battery fuse holder
(B344)	Connection 1 (61), in main wiring harness
*	Only models with 110 A alternator
**	Only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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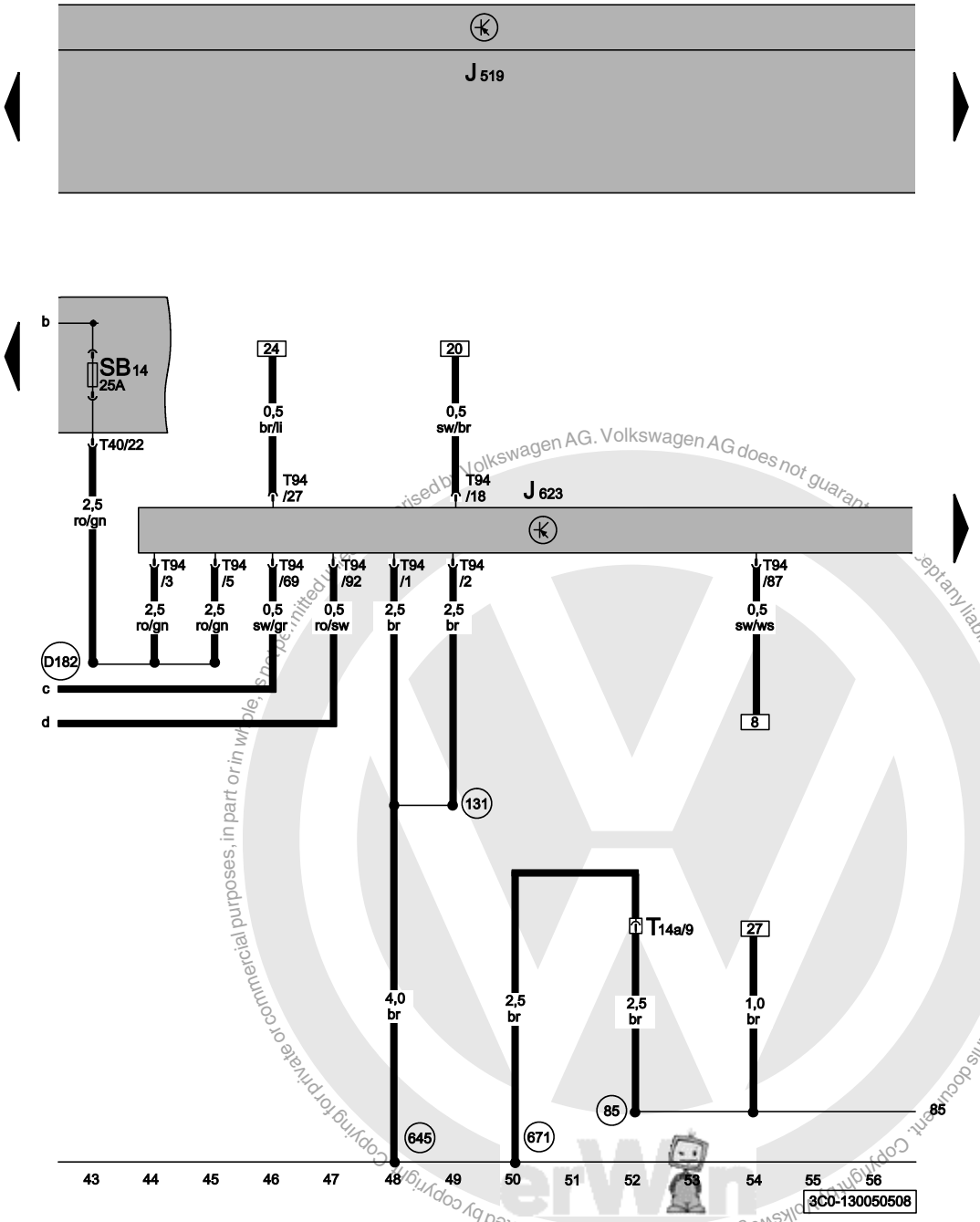


Terminal 15 voltage supply relay, fuses

J271	Motronic current supply relay (458)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB30	Fuse 30 on fuse holder B
T40	40-pin connector
B325	Positive connection 11 (30a), in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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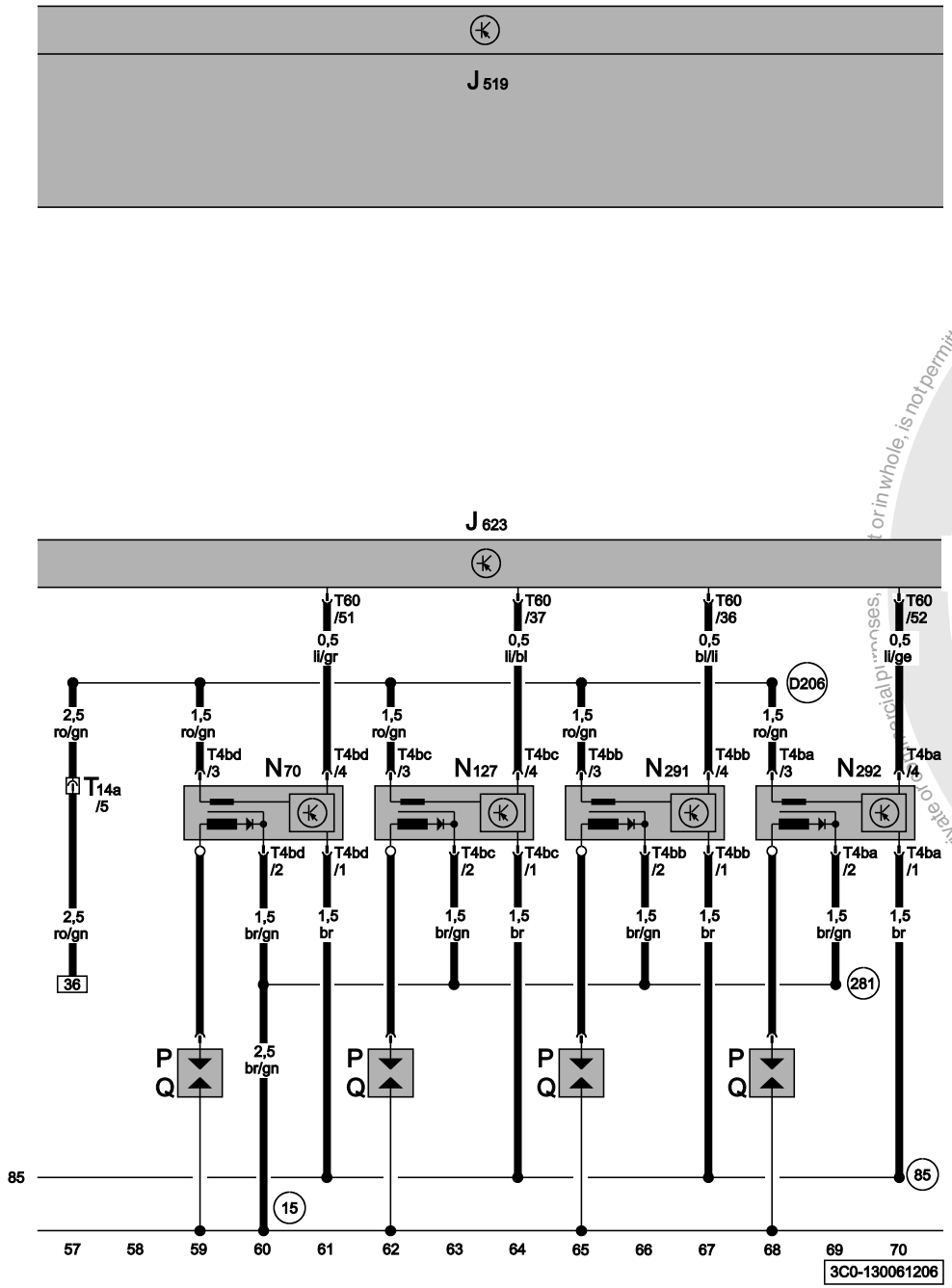


Engine control unit, fuses

J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
SB14	Fuse 14 on fuse holder B
T14a	14-pin connector, coupling point 1, on left in engine compartment
T40	40-pin connector
T94	94-pin connector
85	Earth connection 1, in engine compartment wiring harness
131	Earth connection 2, in engine compartment wiring harness
645	Earth point 1, on bulkhead
671	Earth point 1, on front of left longitudinal member
D182	Connection 3 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Engine control unit, ignition coils with output stage

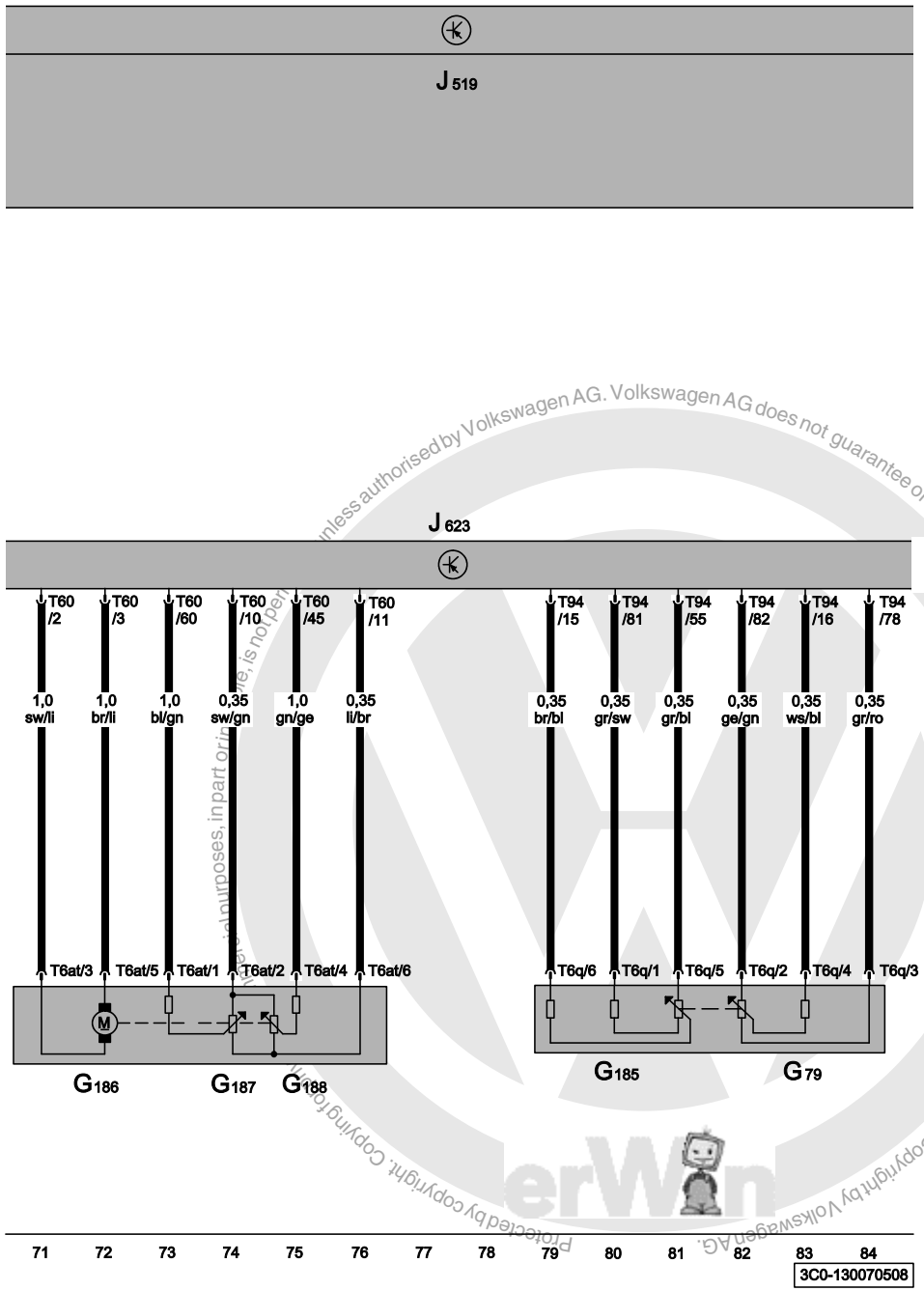
J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plug
T4ba	4-pin connector
T4bb	4-pin connector
T4bc	4-pin connector
T4bd	4-pin connector
T14a	14-pin connector, coupling point 1, on left in engine compartment
T60	60-pin connector
15	Earth point, on cylinder head
85	Earth connection 1, in engine compartment wiring harness
281	Earth point 1, engine prewiring harness
D206	Connection 4 (87a) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Accelerator position sender, throttle valve drive for electric throttle, engine control unit

G79	Accelerator position sender
G185	Accelerator position sender 2
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J519	Onboard supply control unit
J623	Engine control unit
T6at	3-pin connector
T6q	3-pin connector
T60	60-pin connector
T94	94-pin connector

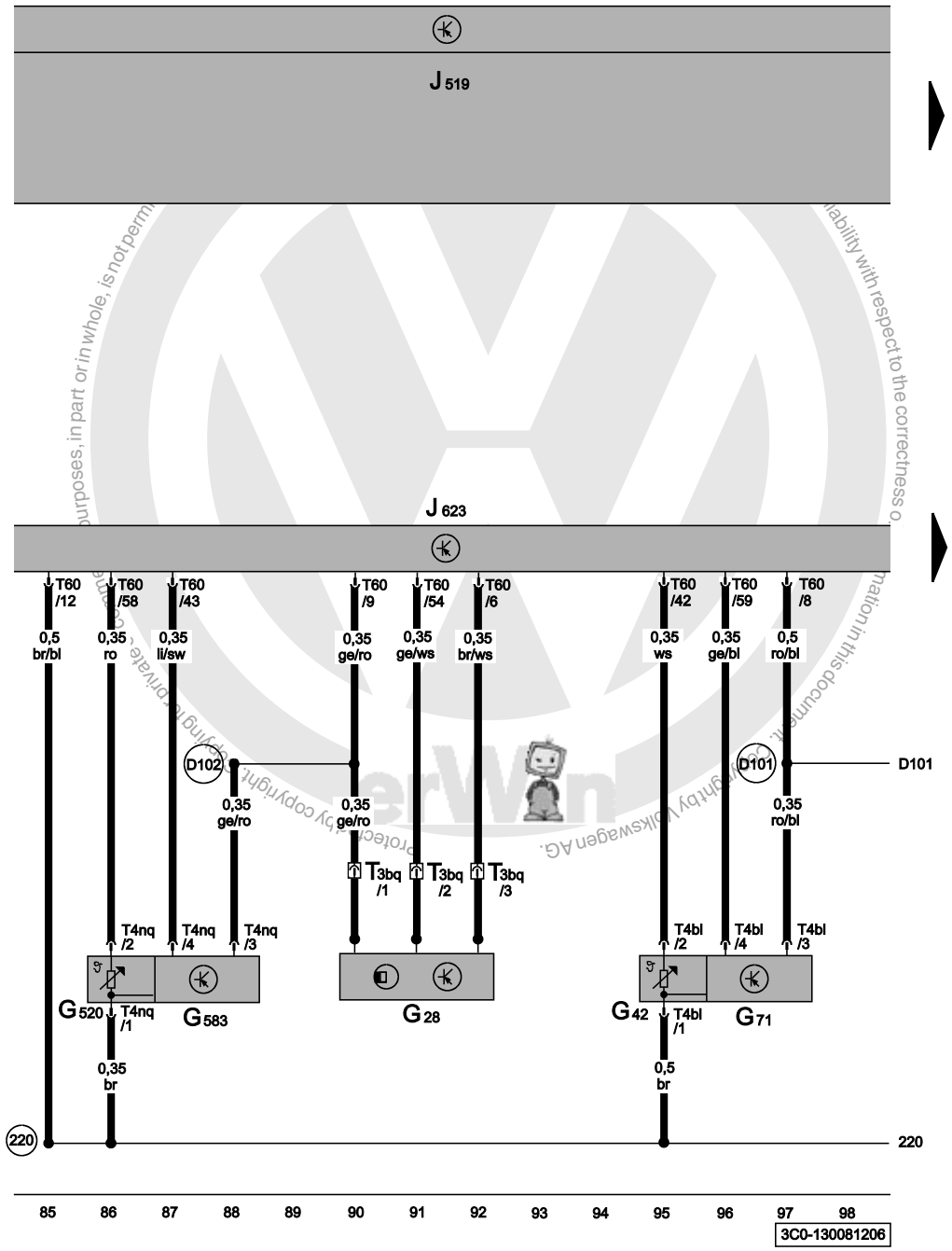


ws = white
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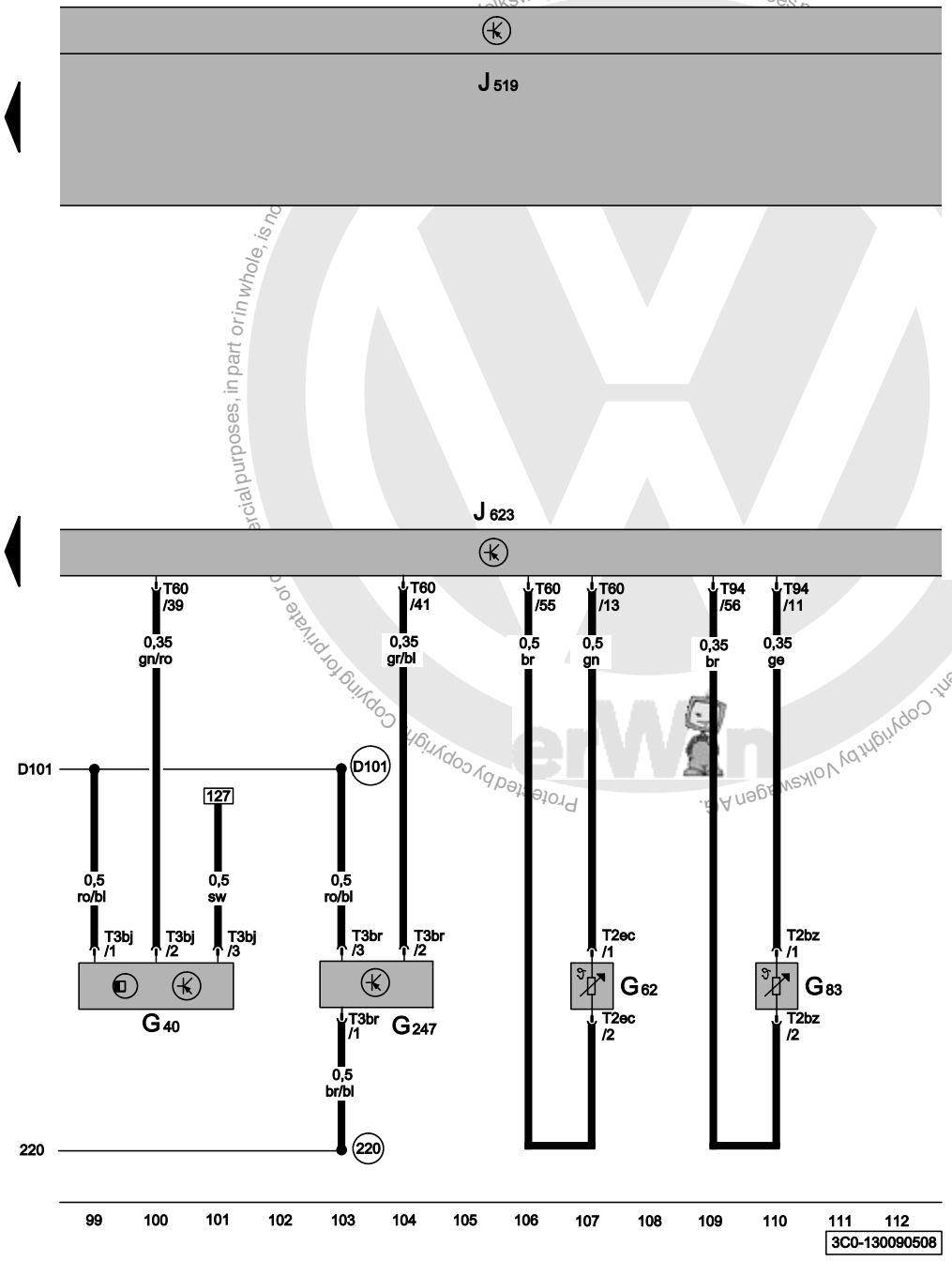
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Engine control unit, engine speed sender, intake air temperature sender, intake manifold pressure sender

G28	Engine speed sender
G42	Intake air temperature sender
G71	Intake manifold pressure sender
G520	Intake air temperature sender 3
G583	Intake manifold pressure sender 3
J519	Onboard supply control unit
J623	Engine control unit
T3bq	3-pin connector
T4bl	4-pin connector
T4nq	4-pin connector
T60	60-pin connector
220	Earth connection (sender earth), in engine wiring harness
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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rs	=	pink

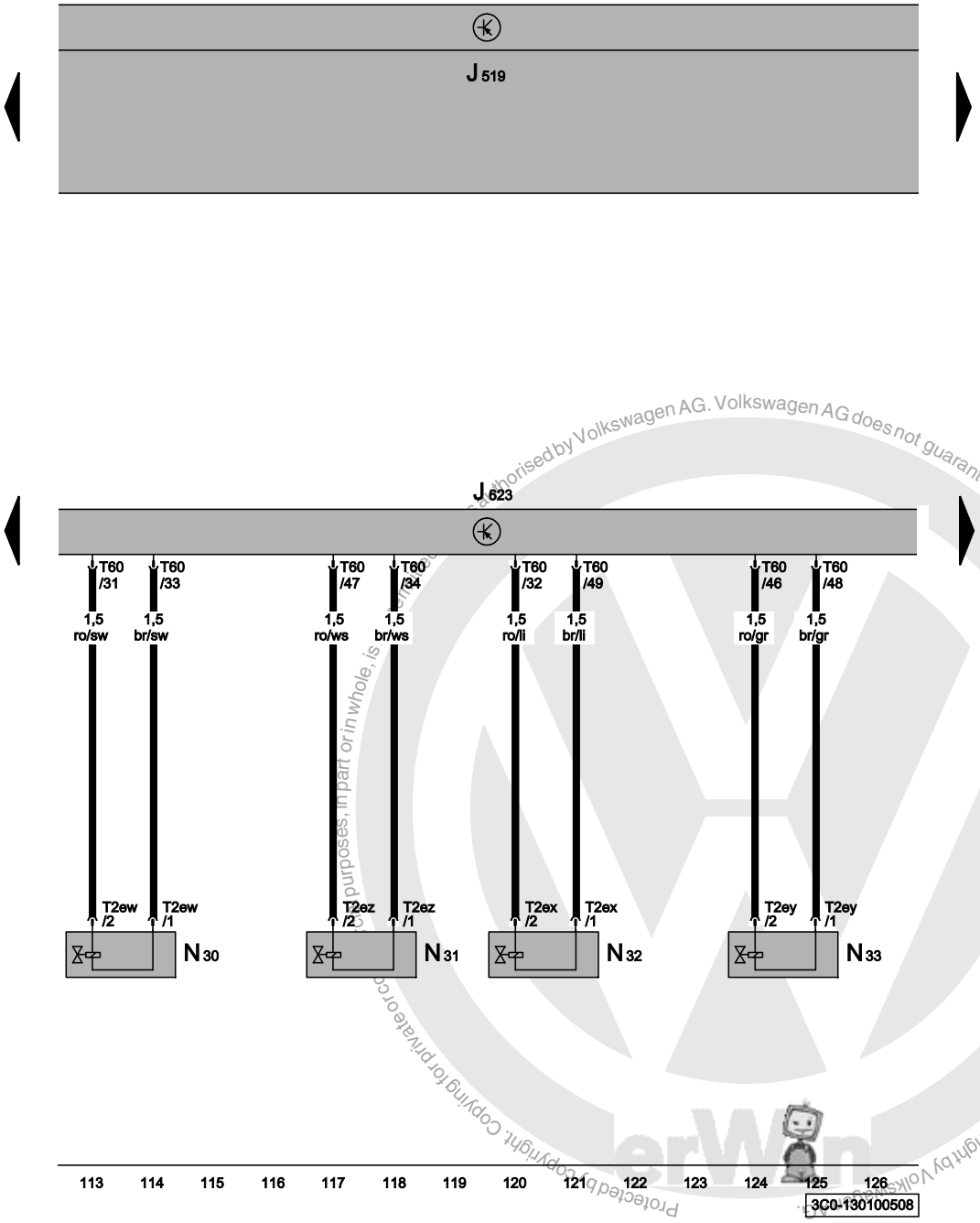


Engine control unit, Hall sender, coolant temperature sender, fuel pressure sender

G40	Hall sender
G62	Coolant temperature sender
G83	Radiator outlet coolant temperature sender
G247	Fuel pressure sender
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector, black
T2ec	2-pin connector
T3bj	3-pin connector
T3br	3-pin connector
T60	60-pin connector
T94	94-pin connector
220	Earth connection (sender earth), in engine wiring harness
D101	Connection 1, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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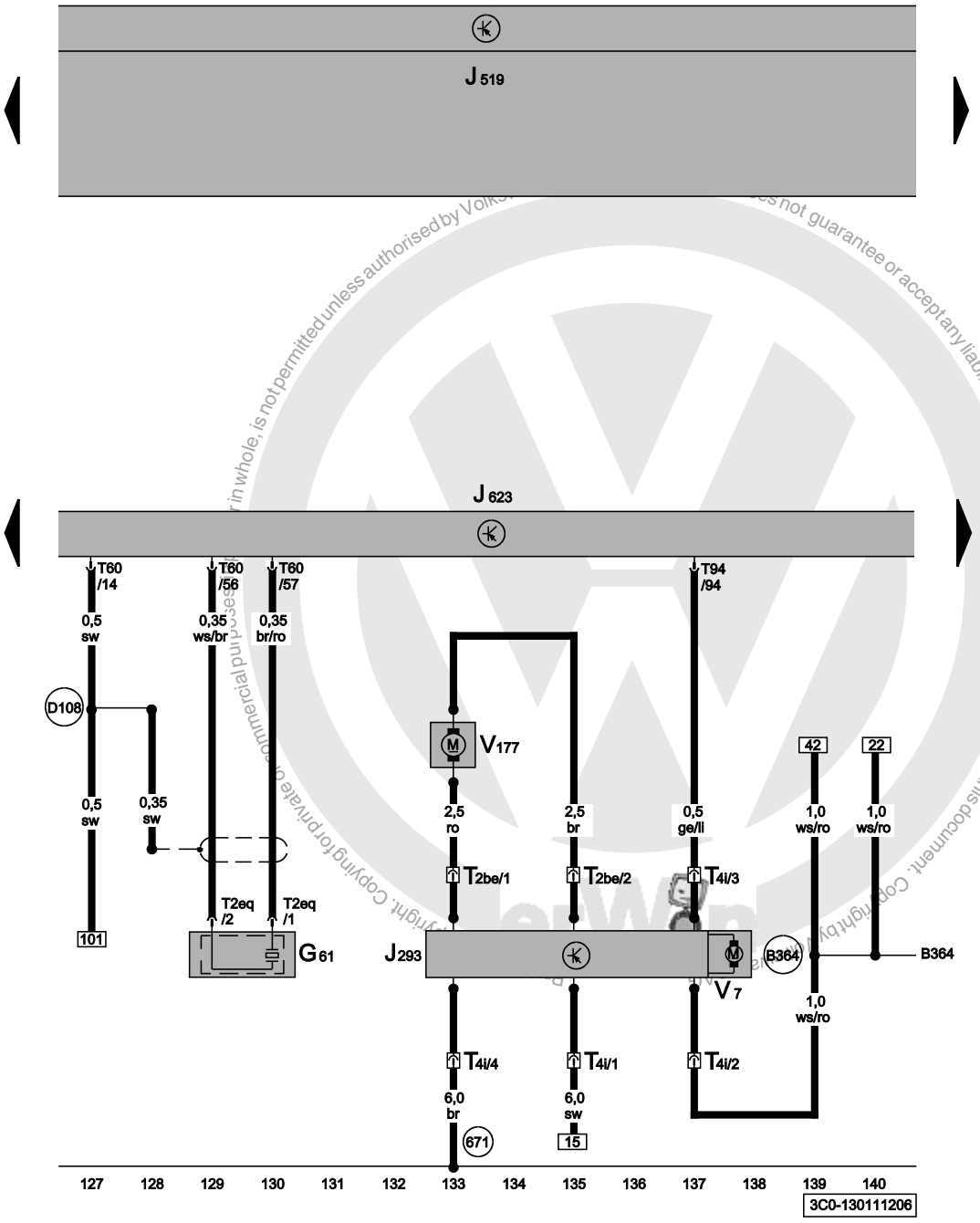


Engine control unit, injectors

J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T2ew	2-pin connector
T2ex	2-pin connector
T2ey	2-pin connector
T2ez	2-pin connector
T60	60-pin connector

ws	=	white
sw	=	black
ro	=	red
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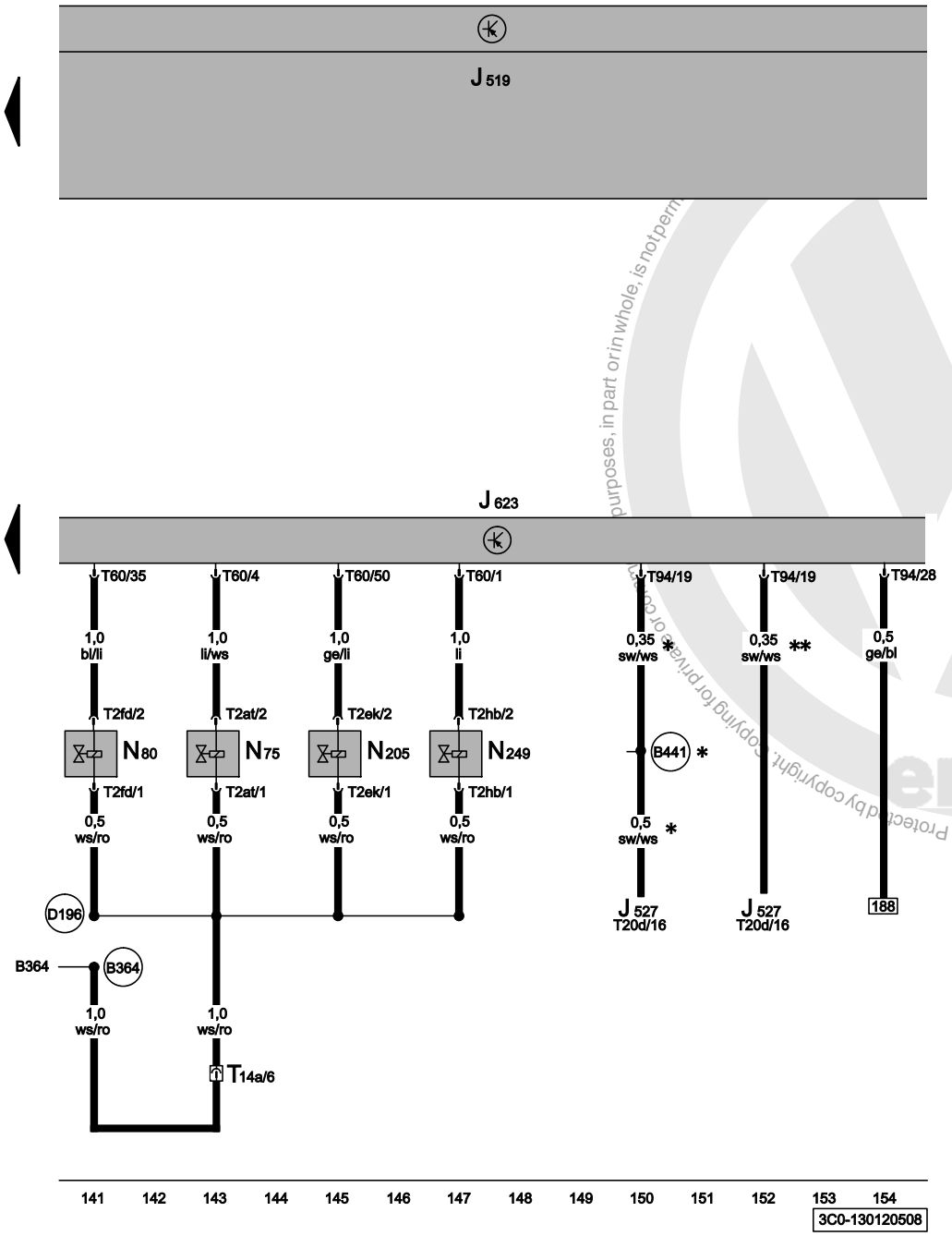


Engine control unit, knock sensor, radiator fan control unit, radiator fan

G61	Knock sensor 1
J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
T2be	2-pin connector, on lock carrier
T2eq	2-pin connector
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B364	Connection 15 (87a), in main wiring harness
D108	Connection 6, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
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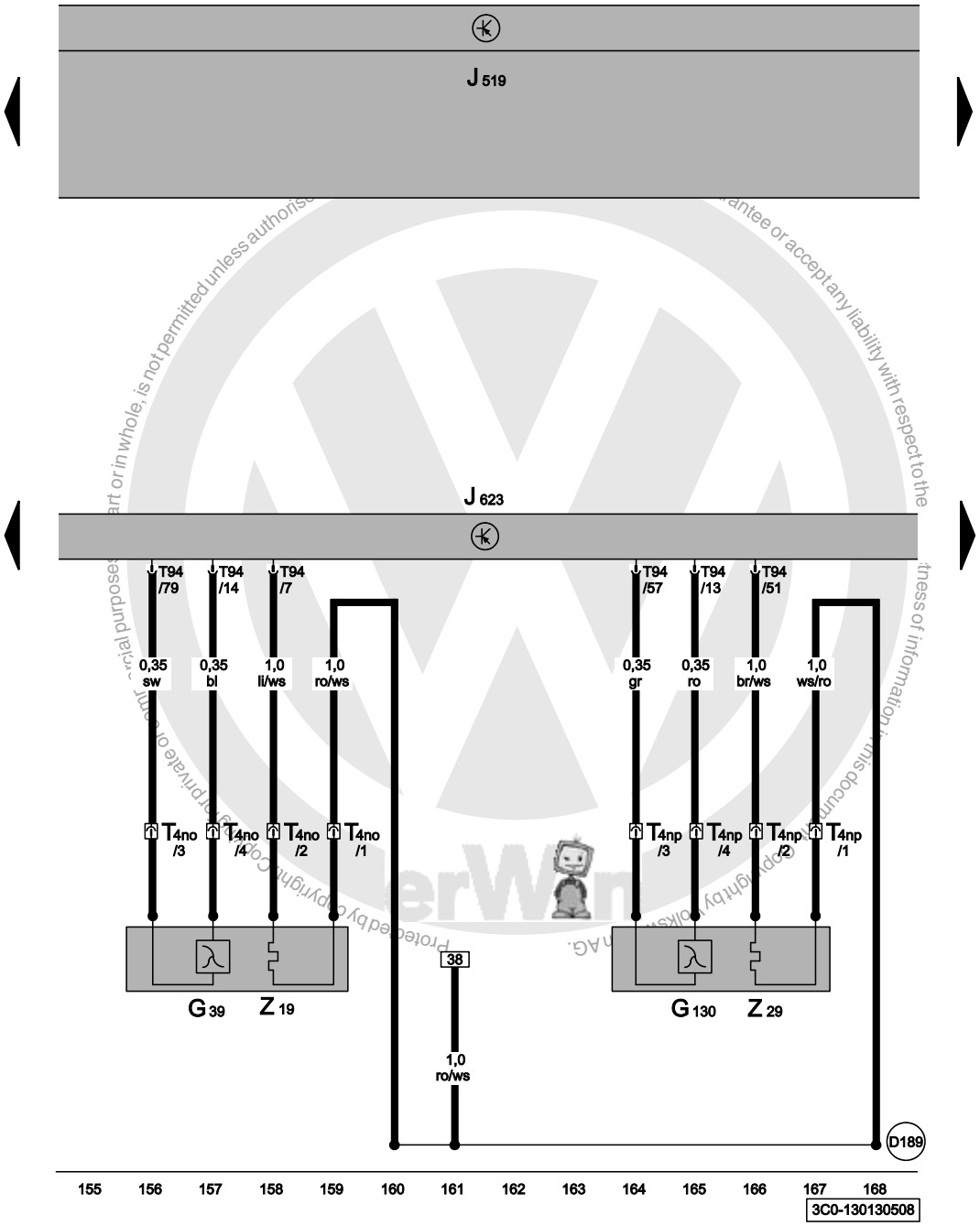


Engine control unit, control unit for steering column electronics, charge pressure control solenoid valve, activated charcoal filter system solenoid valve 1, inlet camshaft control valve 1, turbocharger air recirculation valve

J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N249	Turbocharger air recirculation valve
T2at	2-pin connector
T2ek	2-pin connector
T2fd	2-pin connector
T2hb	2-pin connector
T14a	14-pin connector, coupling point 1, on left in engine compartment
T20d	20-pin connector
T60	60-pin connector
T94	94-pin connector
B364	Connection 15 (87a), in main wiring harness
B441	Connection (CCS), in main wiring harness
D196	Connection 2 (87a) in engine prewiring harness
*	Only models with adaptive cruise control
**	Only models with CCS

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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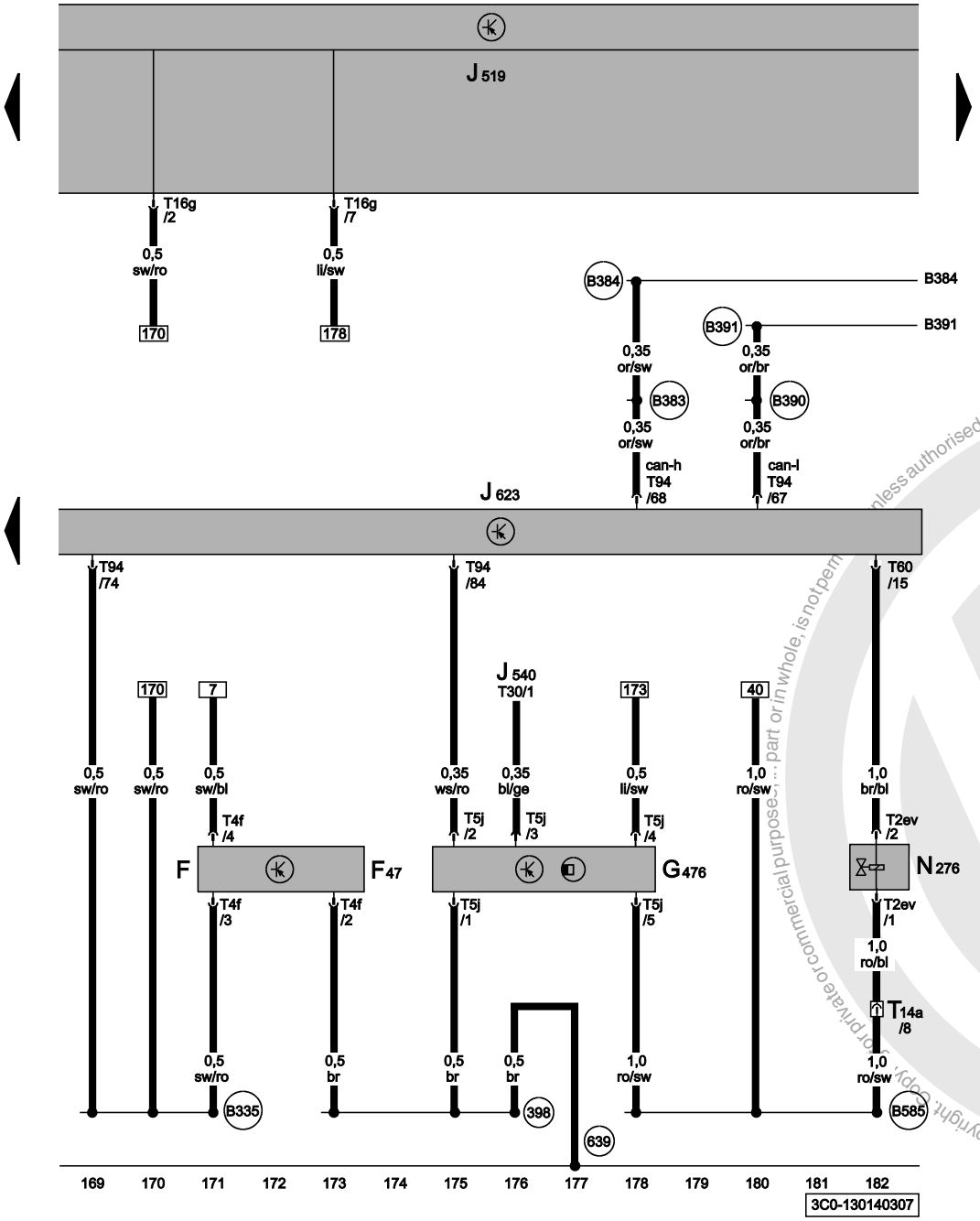
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Engine control unit, Lambda probe, Lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J519	Onboard supply control unit
J623	Engine control unit
T4no	4-pin connector
T4np	4-pin connector
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
(D189)	Connection (87a) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

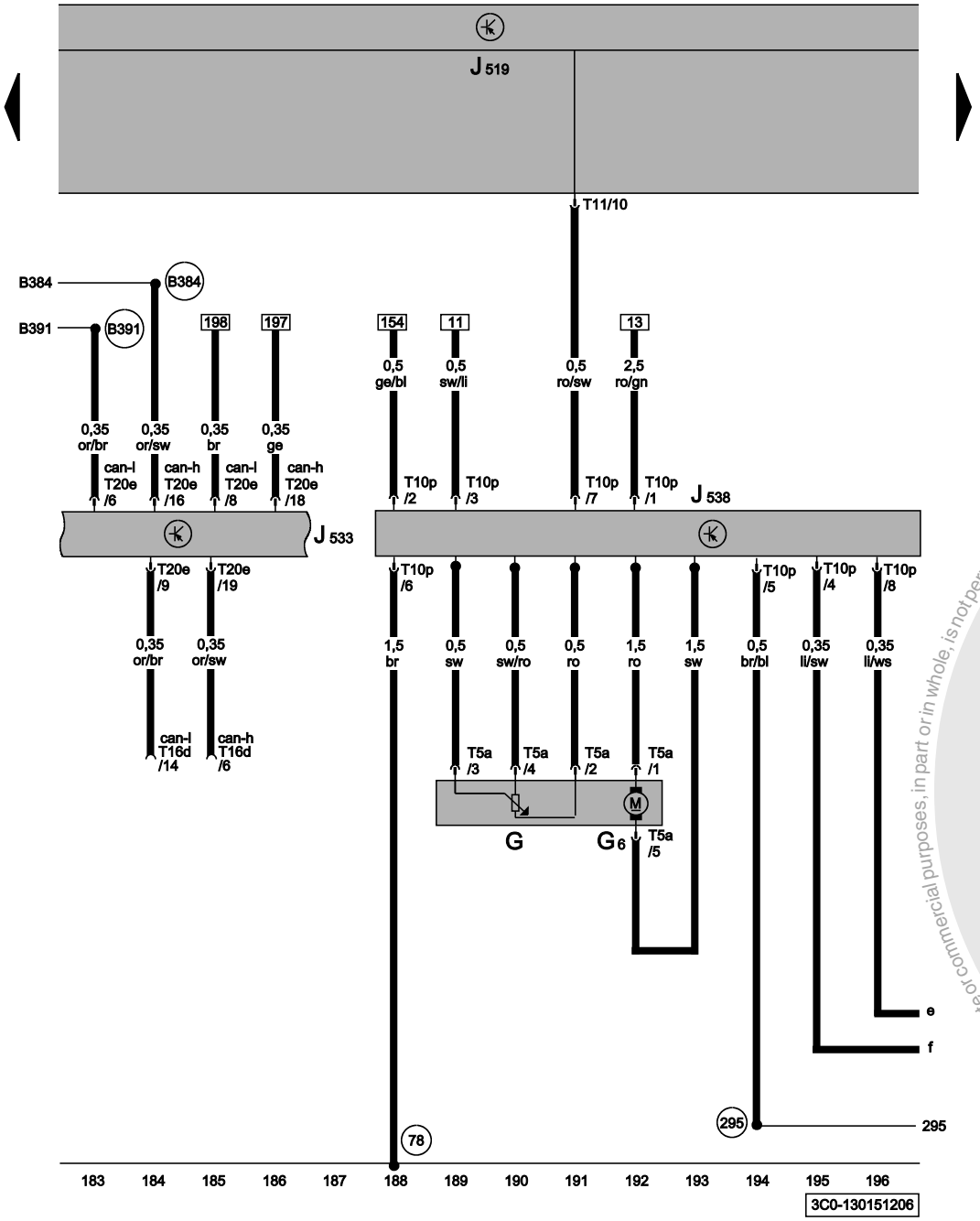


Engine control unit, clutch position sender, brake light switch, brake pedal switch, fuel pressure regulating valve

F	Brake light switch
F47	Brake pedal switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
N276	Fuel pressure regulating valve
T2ev	2-pin connector
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, coupling point 1, on left in engine compartment
T16g	16-pin connector
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B585	Positive connection 2 (87a), in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Data bus diagnosis interface, fuel pump control unit, fuel gauge sender

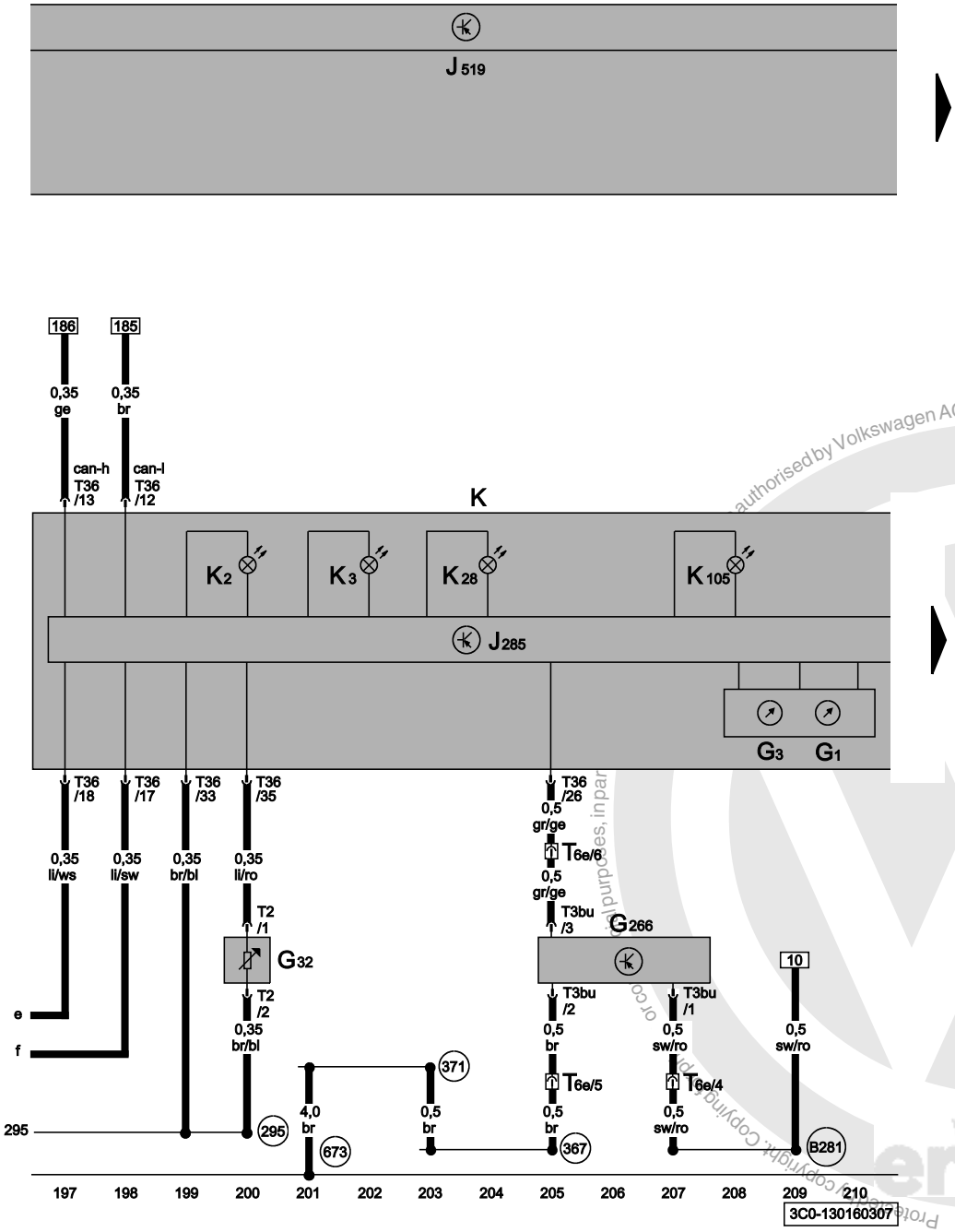
G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J538	Fuel pump control unit
T5a	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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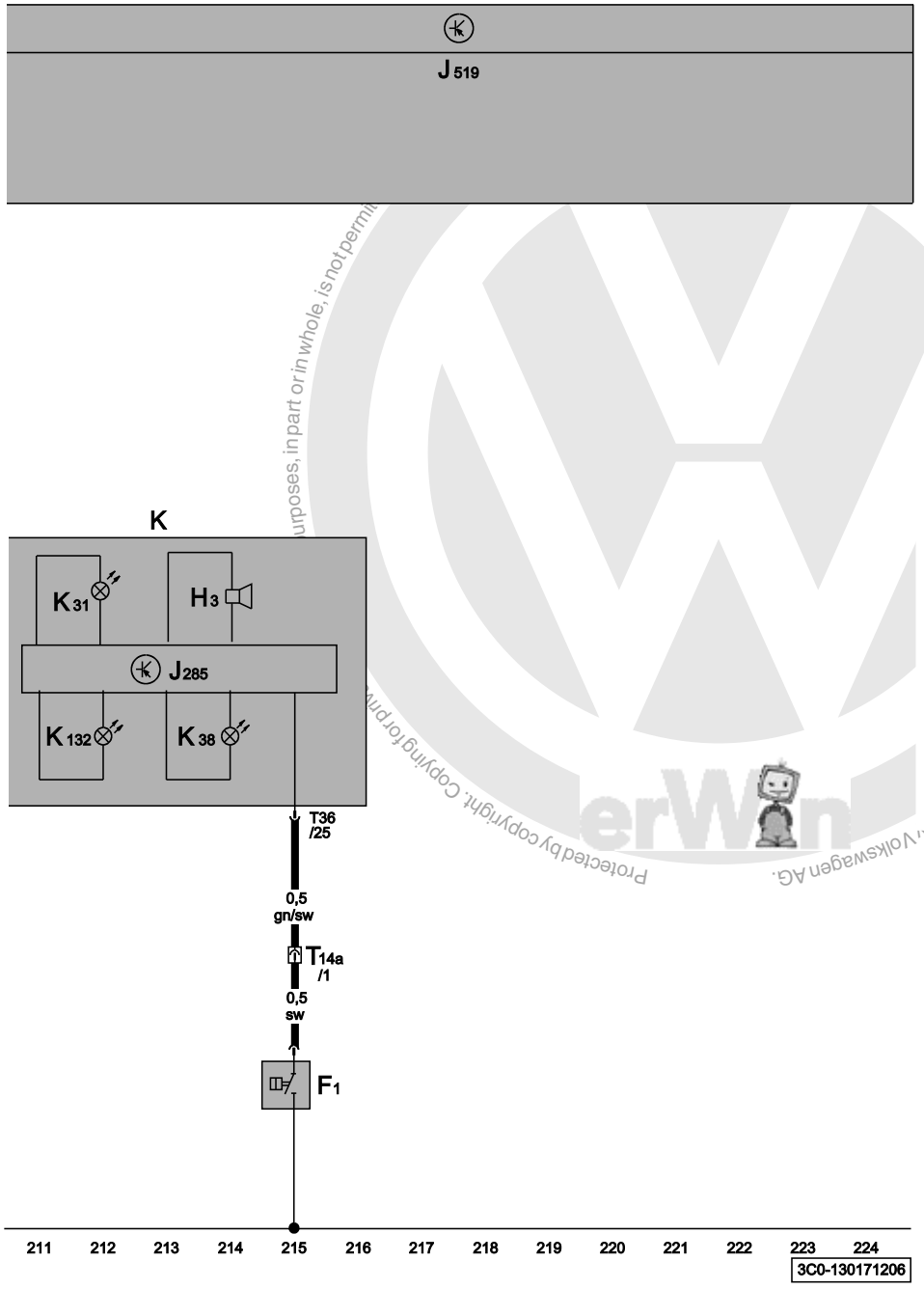
Dash panel insert, coolant shortage indicator sender, oil pressure switch, oil level and oil temperature sender

G1	Fuel gauge
G3	Coolant temperature gauge
G32	Coolant shortage indicator sender
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K105	Reserve fuel warning lamp
T2	2-pin connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering, in engine compartment
T36	36-pin connector
295	Earth connection 10, in interior wiring harness
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
673	Earth point 3, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Dash panel insert, oil pressure switch

F1	Oil pressure switch
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T14a	14-pin connector, coupling point 1, on left in engine compartment
T36	36-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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1.8 l/118 kW - Motronic, engine code BZB

From May 2007

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

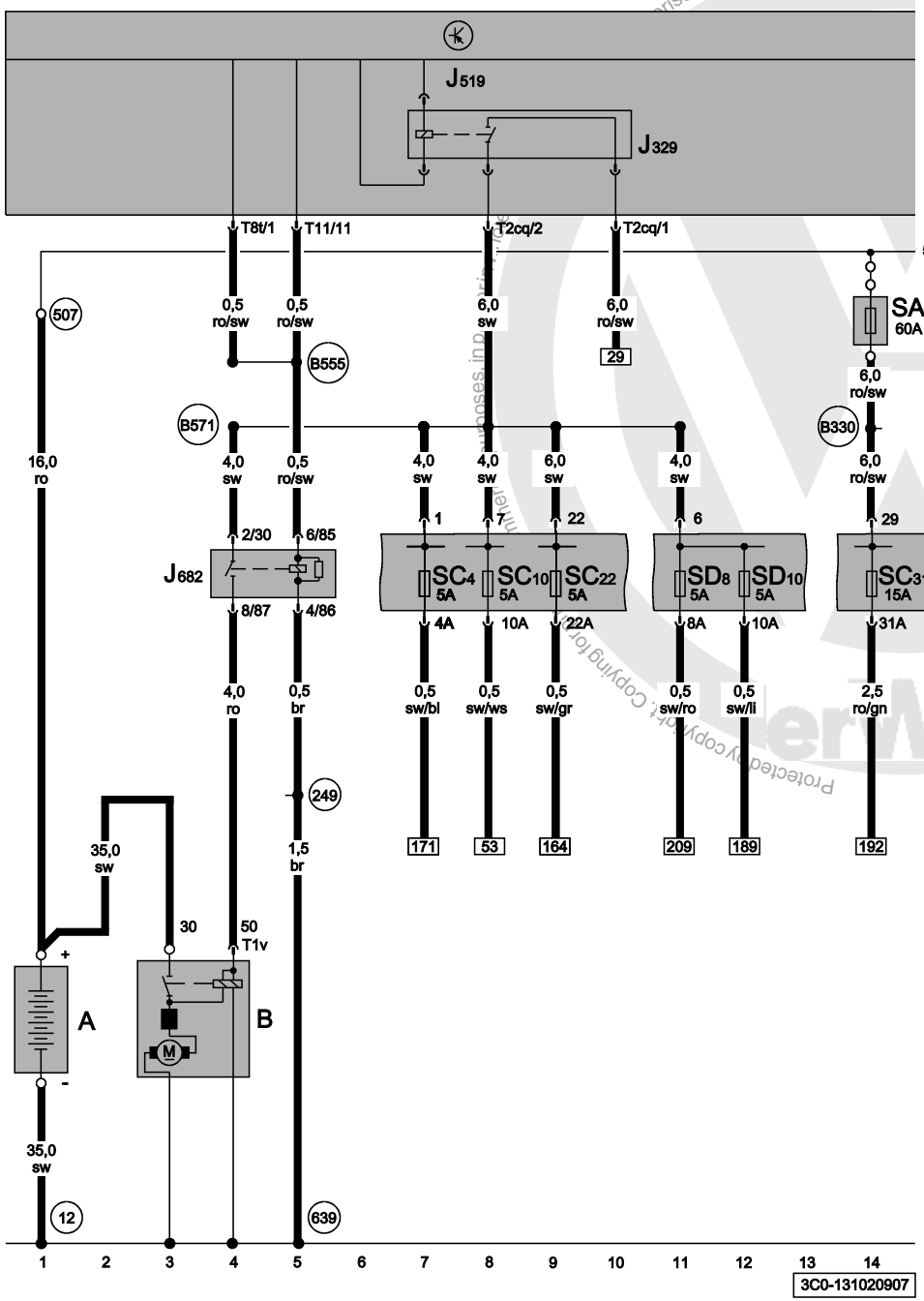
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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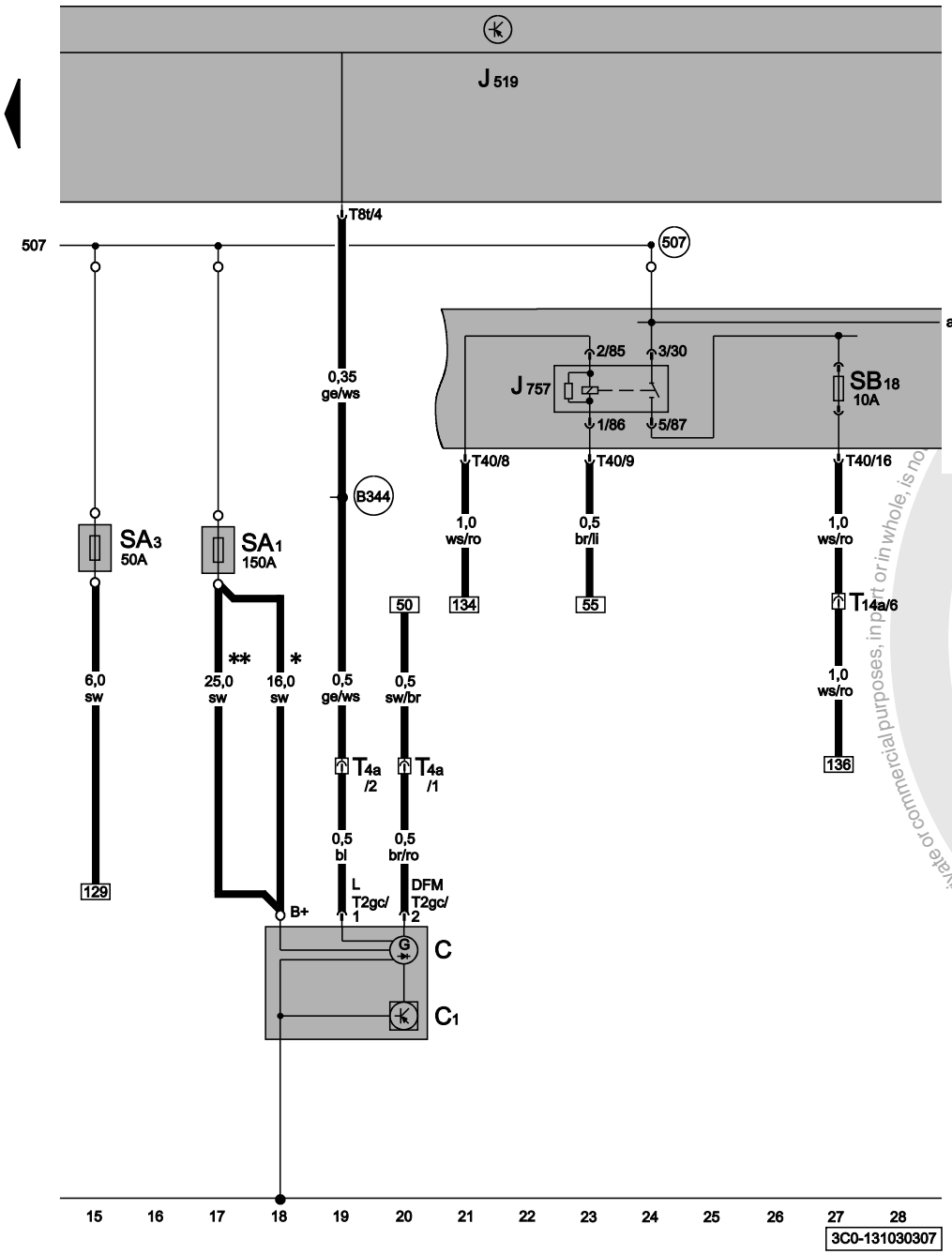


Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, (433)
SA4	Fuse 4 on fuse holder A
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
SD10	Fuse 10 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
507	Threaded connection (30), on battery fuse holder
639	Earth point, left A-pillar
B330	Connection 19 (30a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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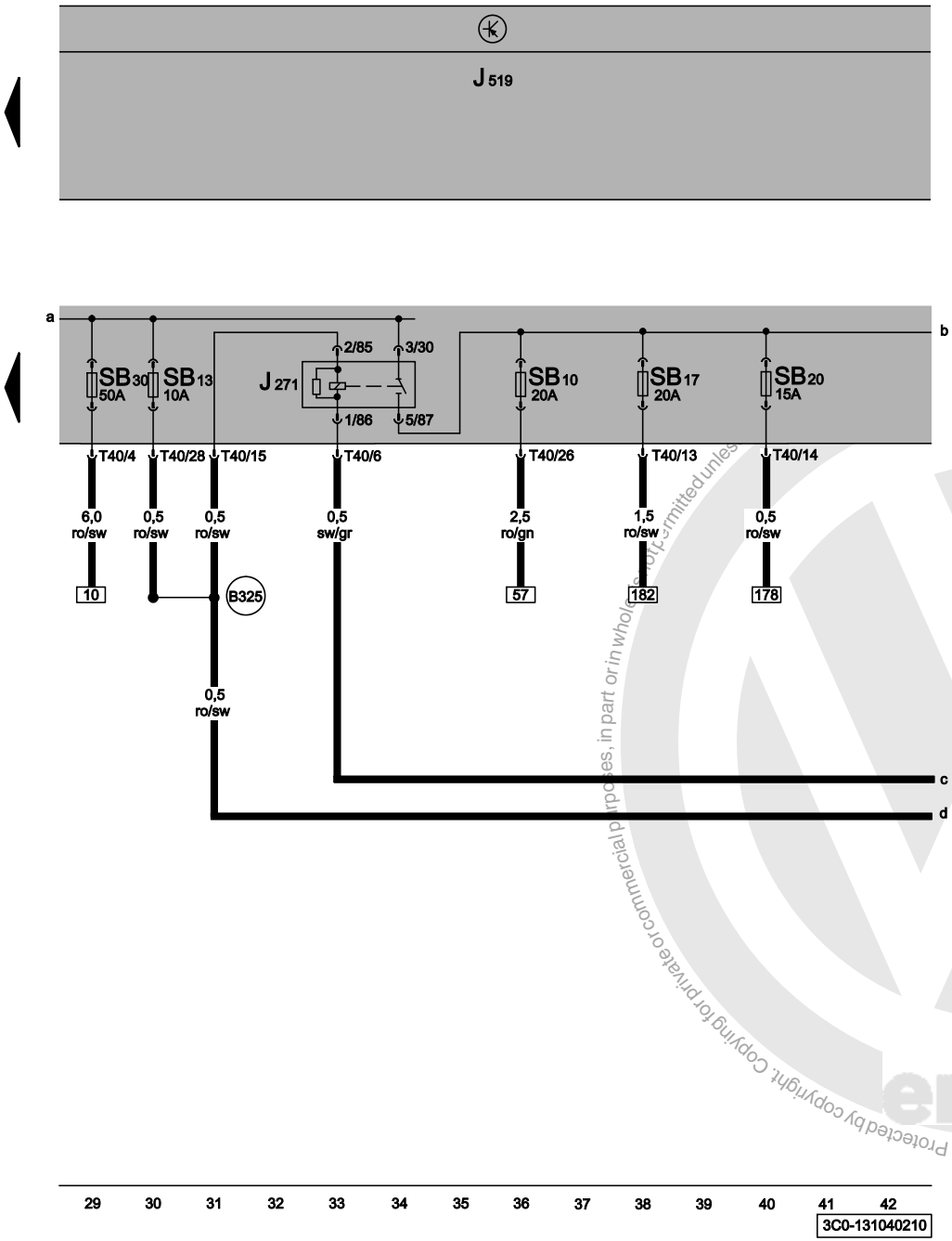


Alternator, current supply relay for engine components, fuses

C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J757	Engine component current supply relay
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB18	Fuse 18 on fuse holder B
T2gc	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40	40-pin connector
(507)	Threaded connection (30), on battery fuse holder
(B344)	Connection 1 (61), in main wiring harness
*	Only models with 110 A alternator
**	Only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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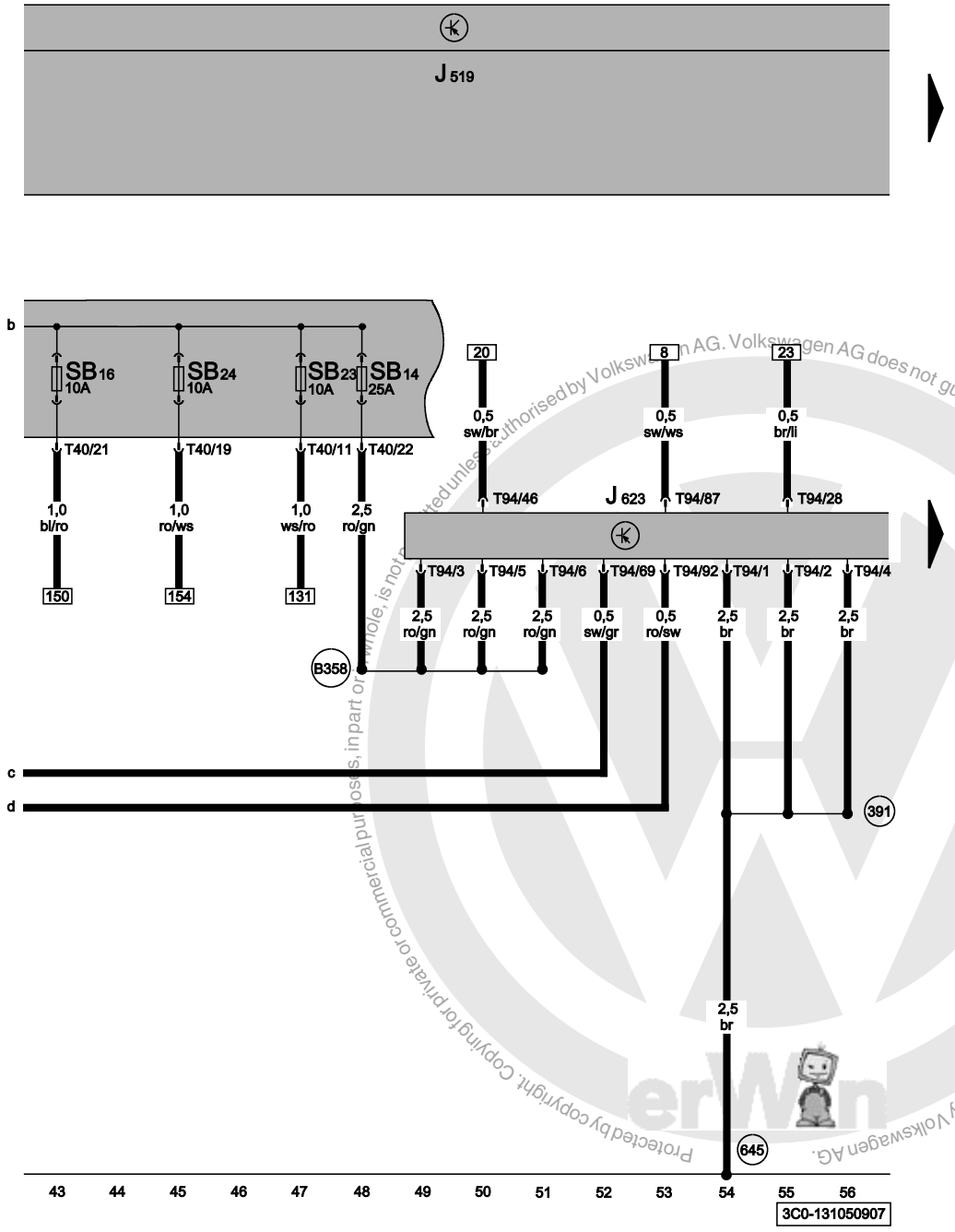


Terminal 15 voltage supply relay, fuses

J271	Motronic current supply relay (100)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB30	Fuse 30 on fuse holder B
T40	40-pin connector
B325	Positive connection 11 (30a), in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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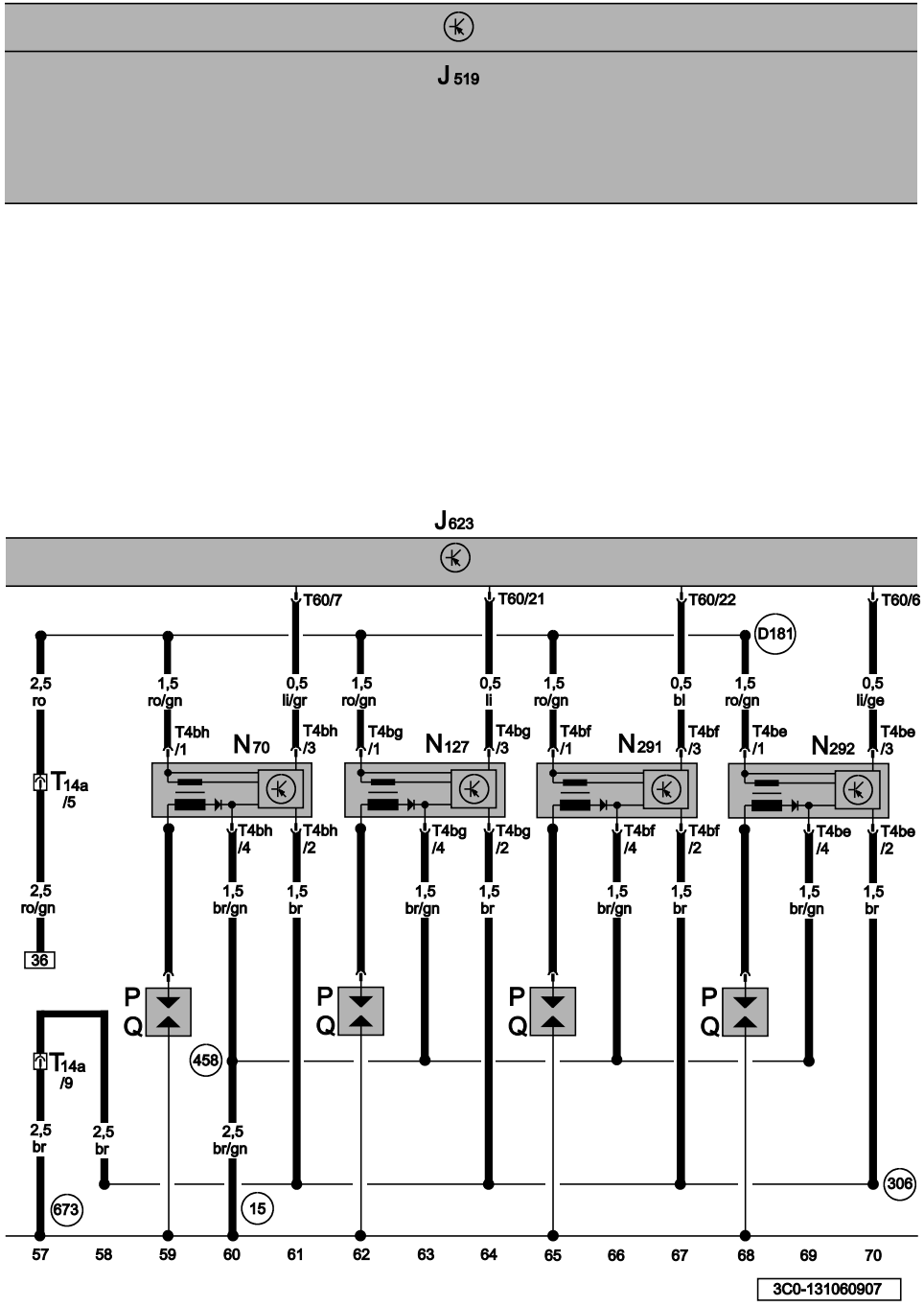


Engine control unit, fuses SB

J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
T40	40-pin connector
T94	94-pin connector
391	Earth connection 26, in main wiring harness
645	Earth point 1, on bulkhead
B358	Connection 9 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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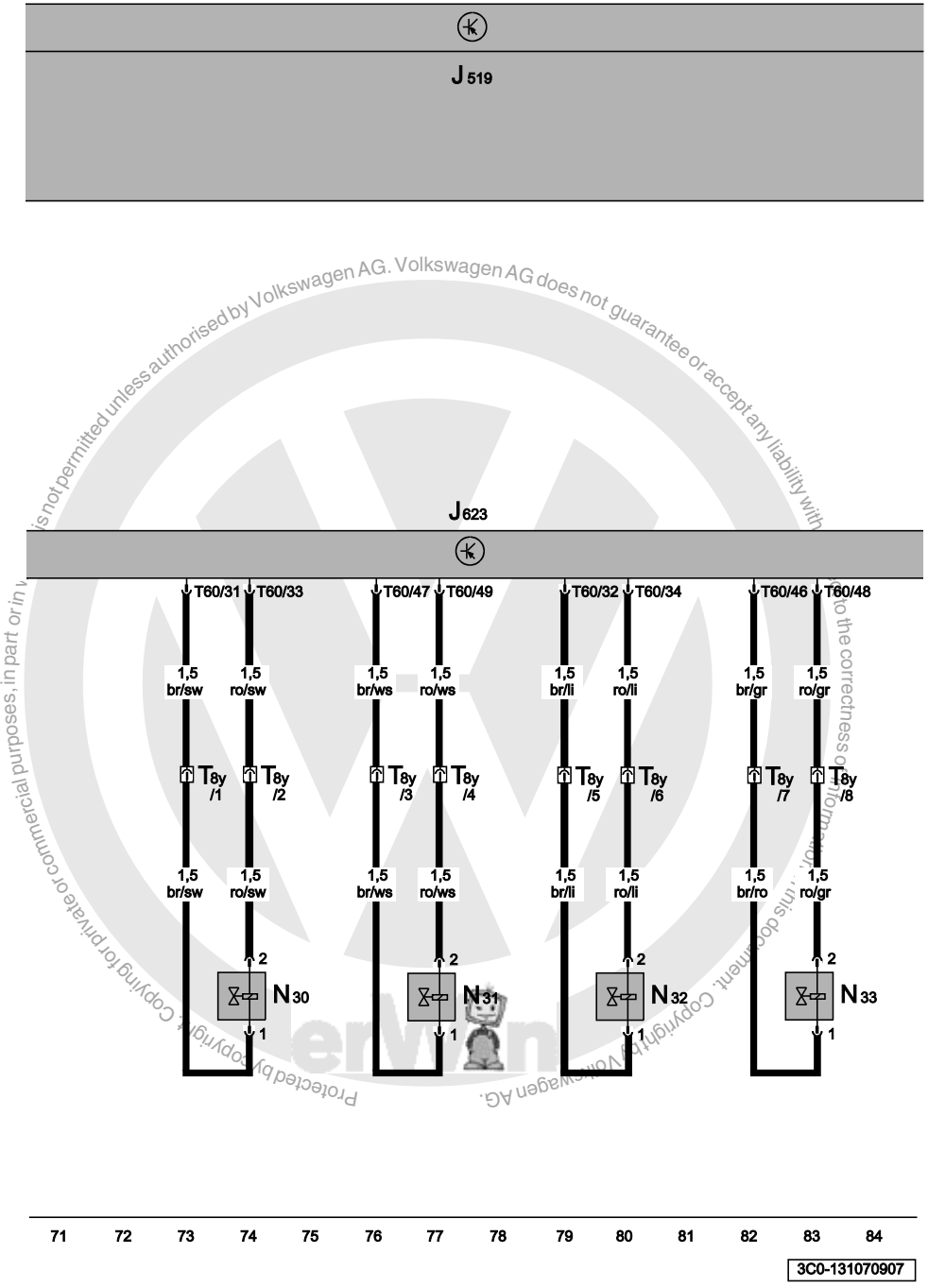


Engine control unit, ignition coils 1-4 with output stage, spark plugs, spark plug connectors

J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plug
T4be	4-pin connector
T4bf	4-pin connector
T4bg	4-pin connector
T4bh	4-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
15	Earth point, on cylinder head
306	Earth connection (ignition coils), in engine prewiring harness
458	Earth point 3, engine prewiring harness
673	Earth point 3, on front of left longitudinal member
D181	Connection 2 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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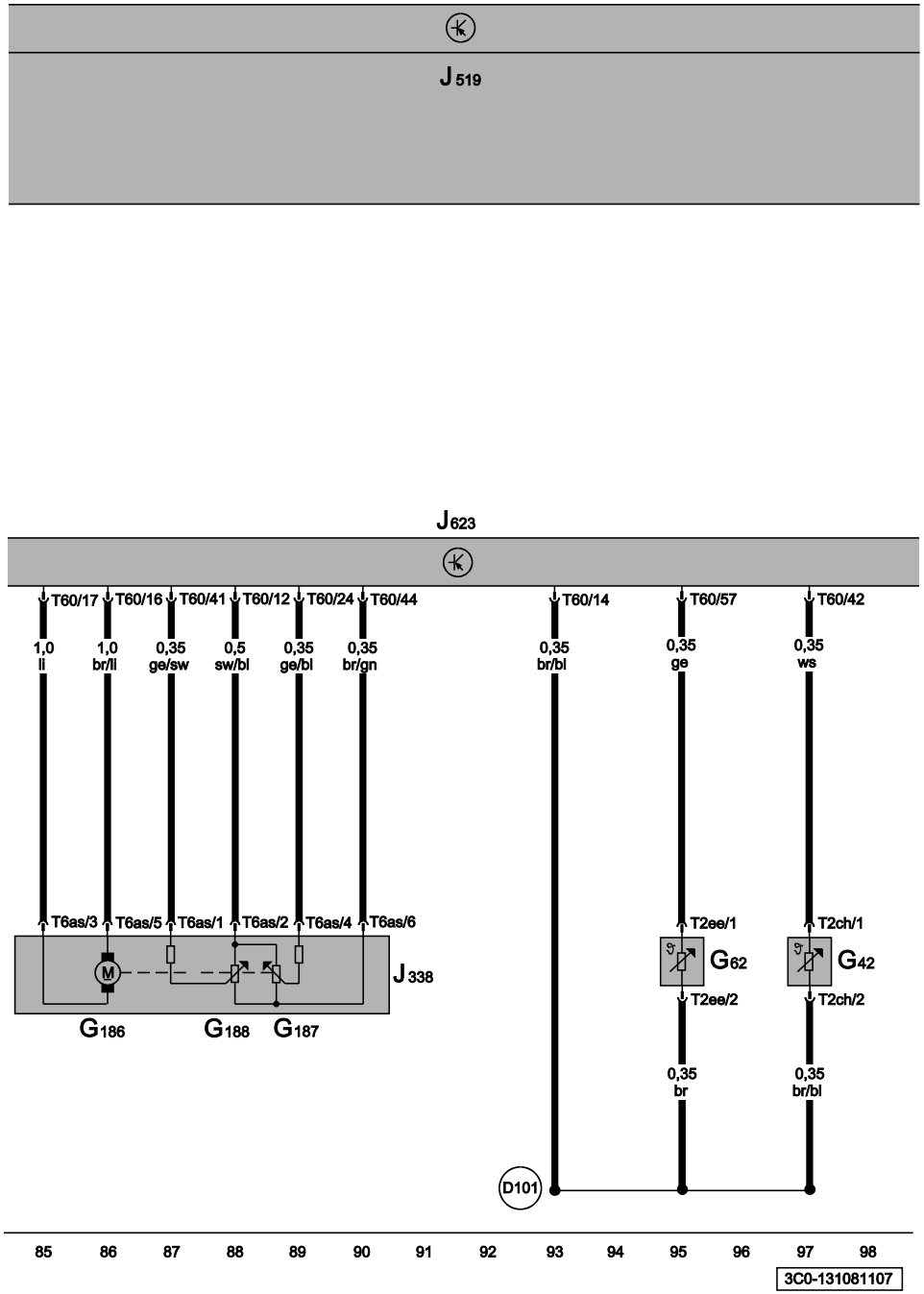


Engine control unit, injectors for cylinders 1-4

J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8y	8-pin connector, black, near cylinder head
T60	60-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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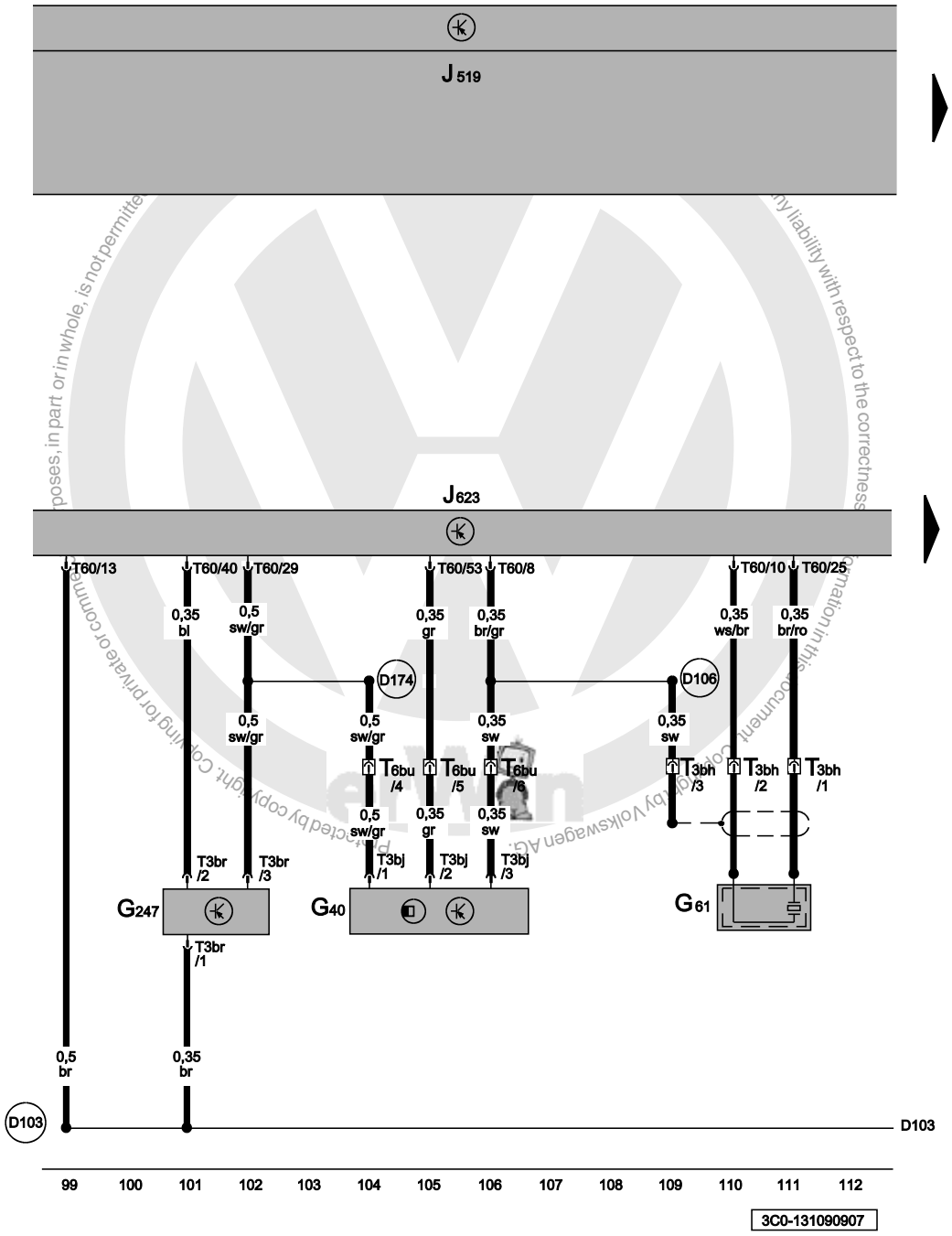


Engine control unit, throttle valve module, coolant temperature sender, intake air temperature sender 2

G42	Intake air temperature sender
G62	Coolant temperature sender
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
T2ch	2-pin connector
T2ee	2-pin connector
T6as	6-pin connector
T60	60-pin connector
D101	Connection 1, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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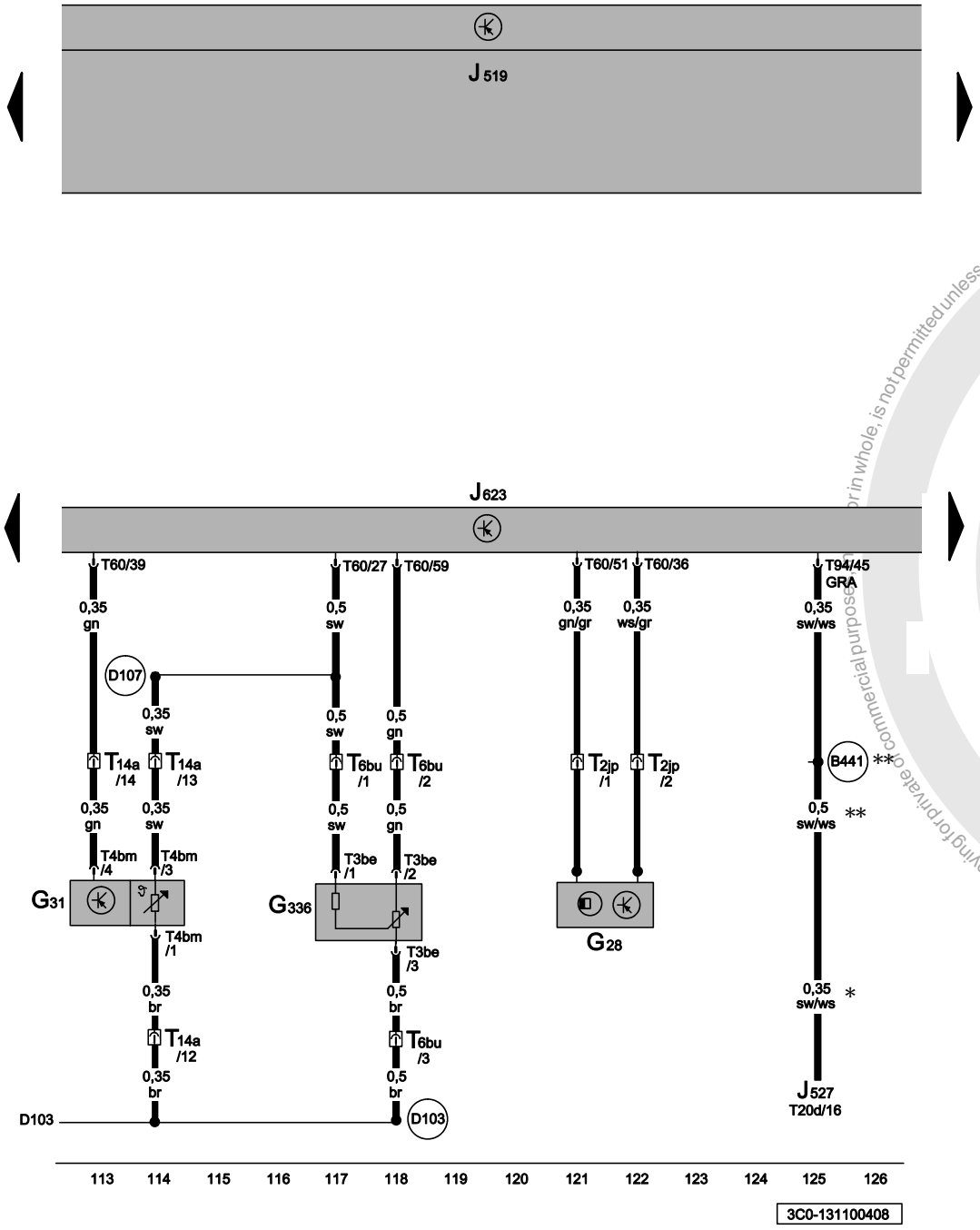


Engine control unit, Hall sender, knock sensor 1, fuel pressure sender

G40	Hall sender
G61	Knock sensor 1
G247	Fuel pressure sender
J519	Onboard supply control unit
J623	Engine control unit
T3bh	3-pin connector
T3bj	3-pin connector
T3br	3-pin connector
T6bu	6-pin connector, near cylinder head
T60	60-pin connector
D103	Connection 3, in engine compartment wiring harness
D106	Connection 4, in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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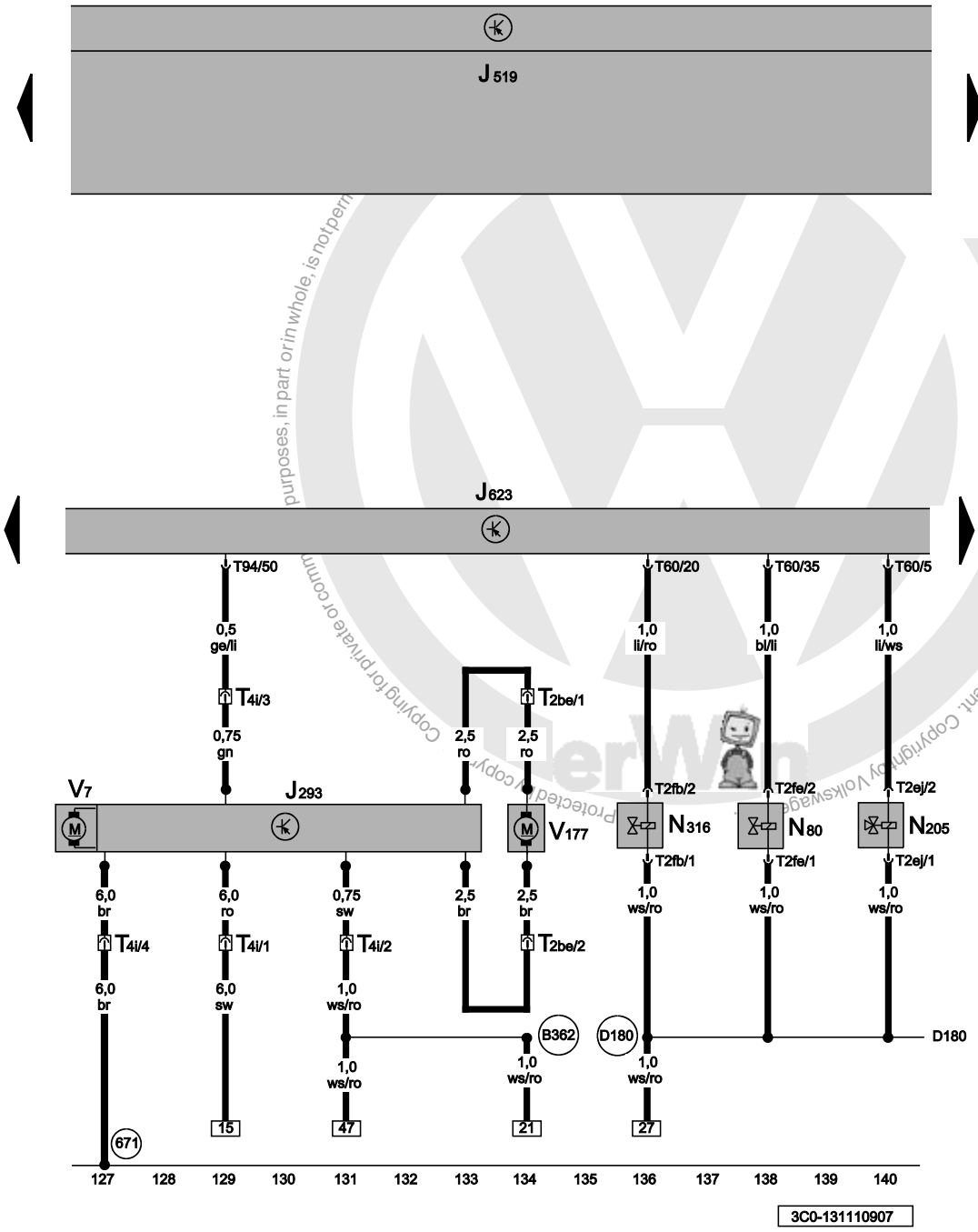


Engine speed sender, charge air pressure sender, intake air temperature sender, intake manifold flap potentiometer, control unit for steering column electronics

G28	Engine speed sender
G31	Charge air pressure sender
G336	Intake manifold flap potentiometer
J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
T2jp	2-pin connector
T3be	3-pin connector
T4bm	4-pin connector
T6bu	6-pin connector, near cylinder head
T14a	14-pin connector, coupling point 1 on left in engine compartment
T20d	20-pin connector
T60	60-pin connector
T94	94-pin connector
B441	Connection (CCS), in main wiring harness
D103	Connection 3, in engine compartment wiring harness
D107	Connection 5, in engine compartment wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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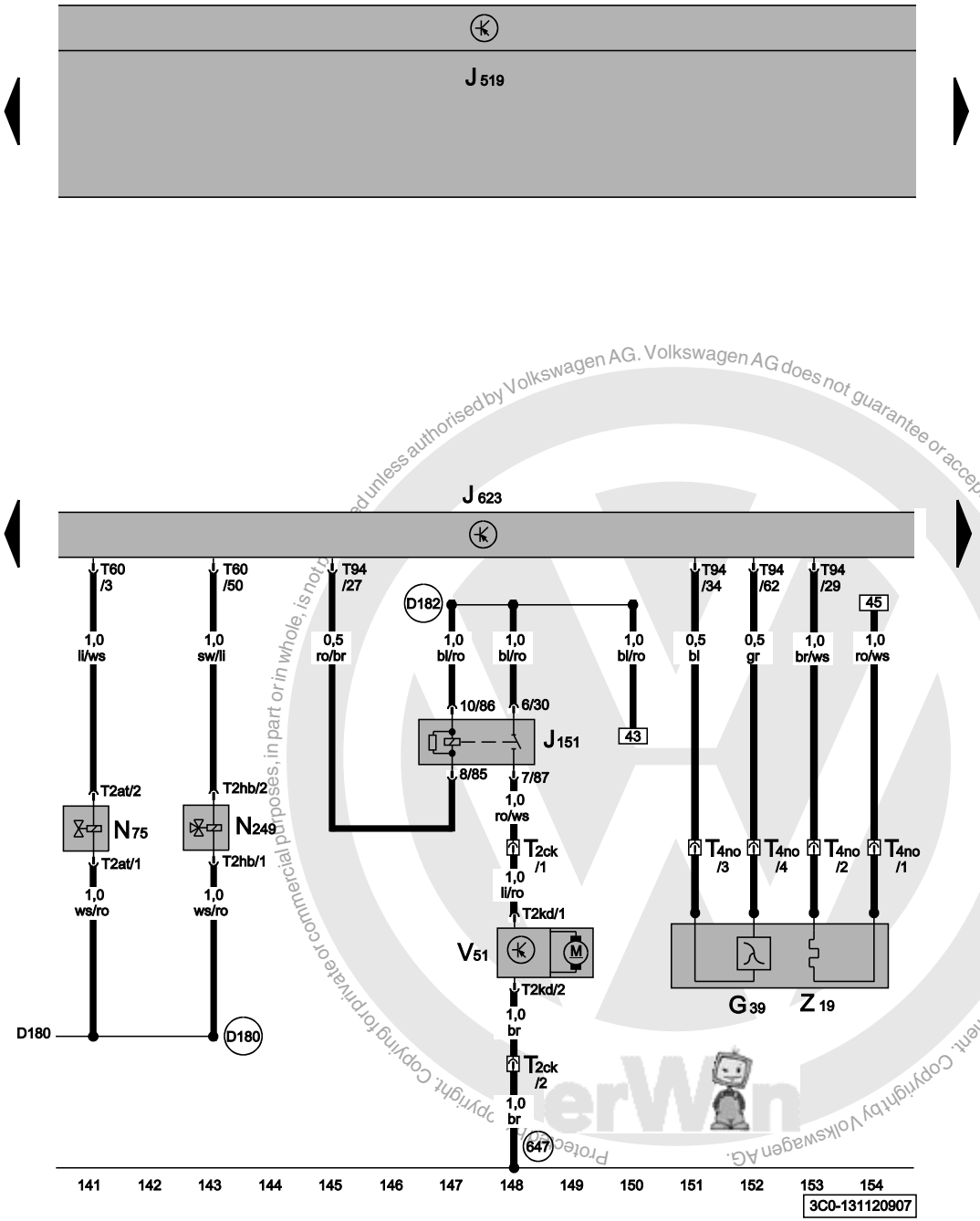


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, radiator fan control unit, activated charcoal filter system solenoid valve 1, camshaft adjustment control valve 1, variable intake manifold changeover valve

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N316	Intake manifold flap valve
T2be	2-pin connector, on lock carrier
T2fb	2-pin connector
T2fe	2-pin connector
T2ej	2-pin connector
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B362	Connection 13 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness

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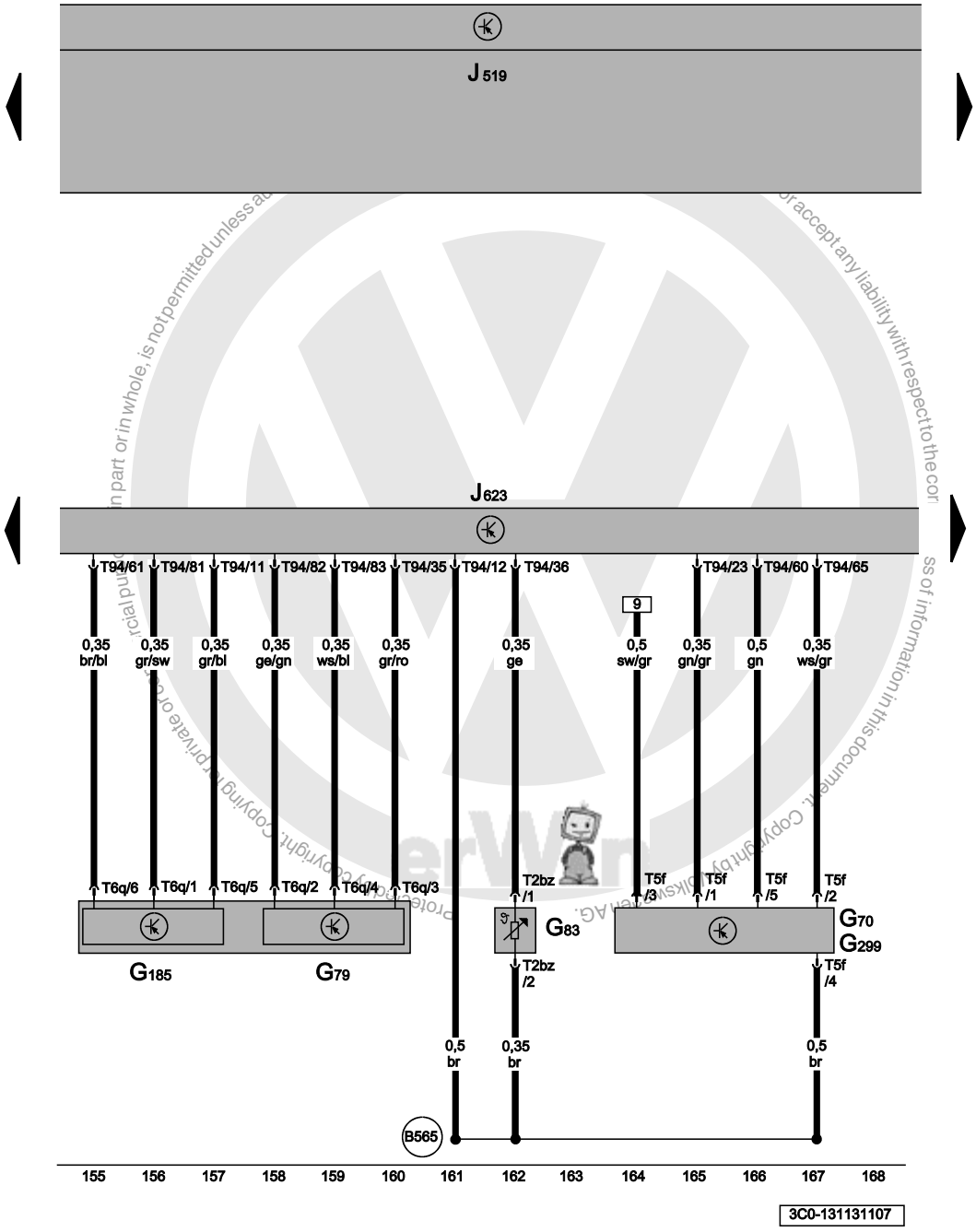


Engine control unit, Lambda probe, charge pressure control solenoid valve, turbocharger air recirculation valve, additional coolant pump relay, continued coolant circulation pump

G39	Lambda probe
J151	Continued coolant circulation relay
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N249	Turbocharger air recirculation valve
T2at	2-pin connector
T2ck	2-pin connector
T2hb	2-pin connector
T2kd	2-pin connector
T4no	4-pin connector
T60	60-pin connector
T94	94-pin connector
V51	Continued coolant circulation pump
Z19	Lambda probe heater
647	Earth point 3, on bulkhead
D180	Connection (87a), in engine compartment wiring harness
D182	Connection 3 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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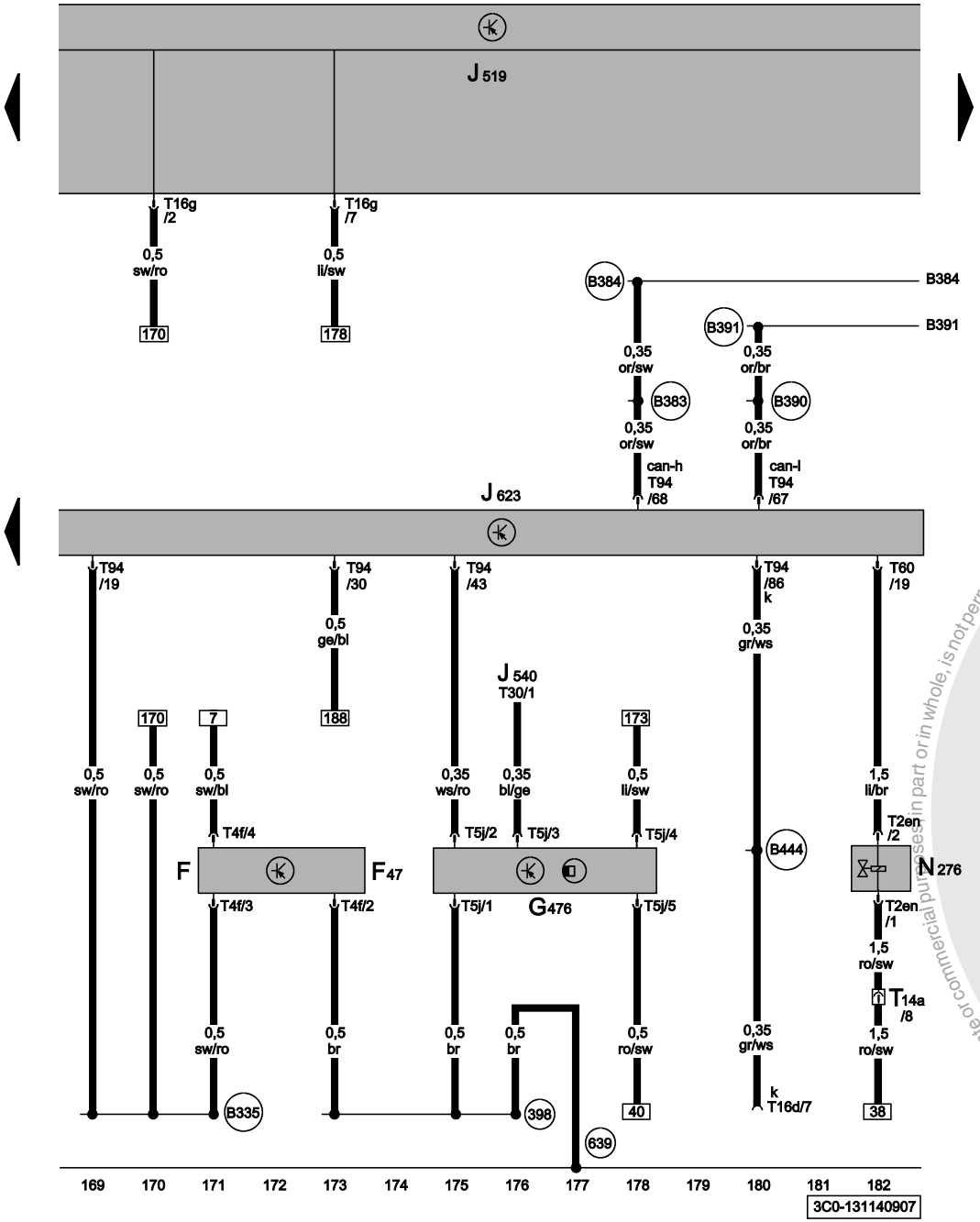


Engine control unit, air mass meter, accelerator position sender, radiator outlet coolant temperature sender, brake servo pressure sensor

G70	Air mass meter
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
G299	Intake air temperature sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector
T5f	5-pin connector
T6q	6-pin connector
T94	94-pin connector
B565	Connection 32, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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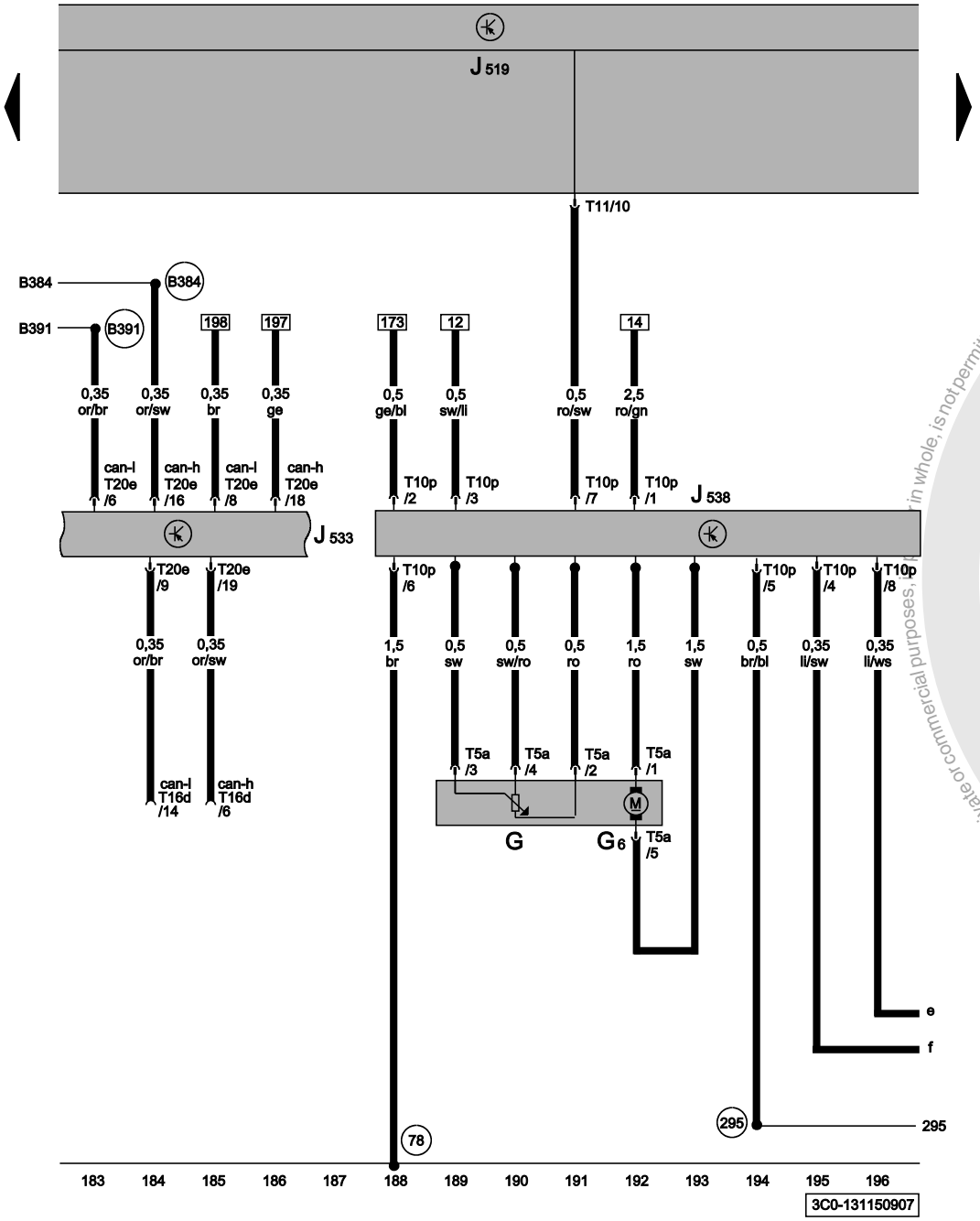


Engine control unit, clutch position sender, brake light switch, brake pedal switch, fuel pressure regulating valve, self-diagnosis connection

F	Brake light switch
F47	Brake pedal switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
N276	Fuel pressure regulating valve
T2en	2-pin connector
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16d	16-pin connector, self-diagnosis connection
T16g	16-pin connector
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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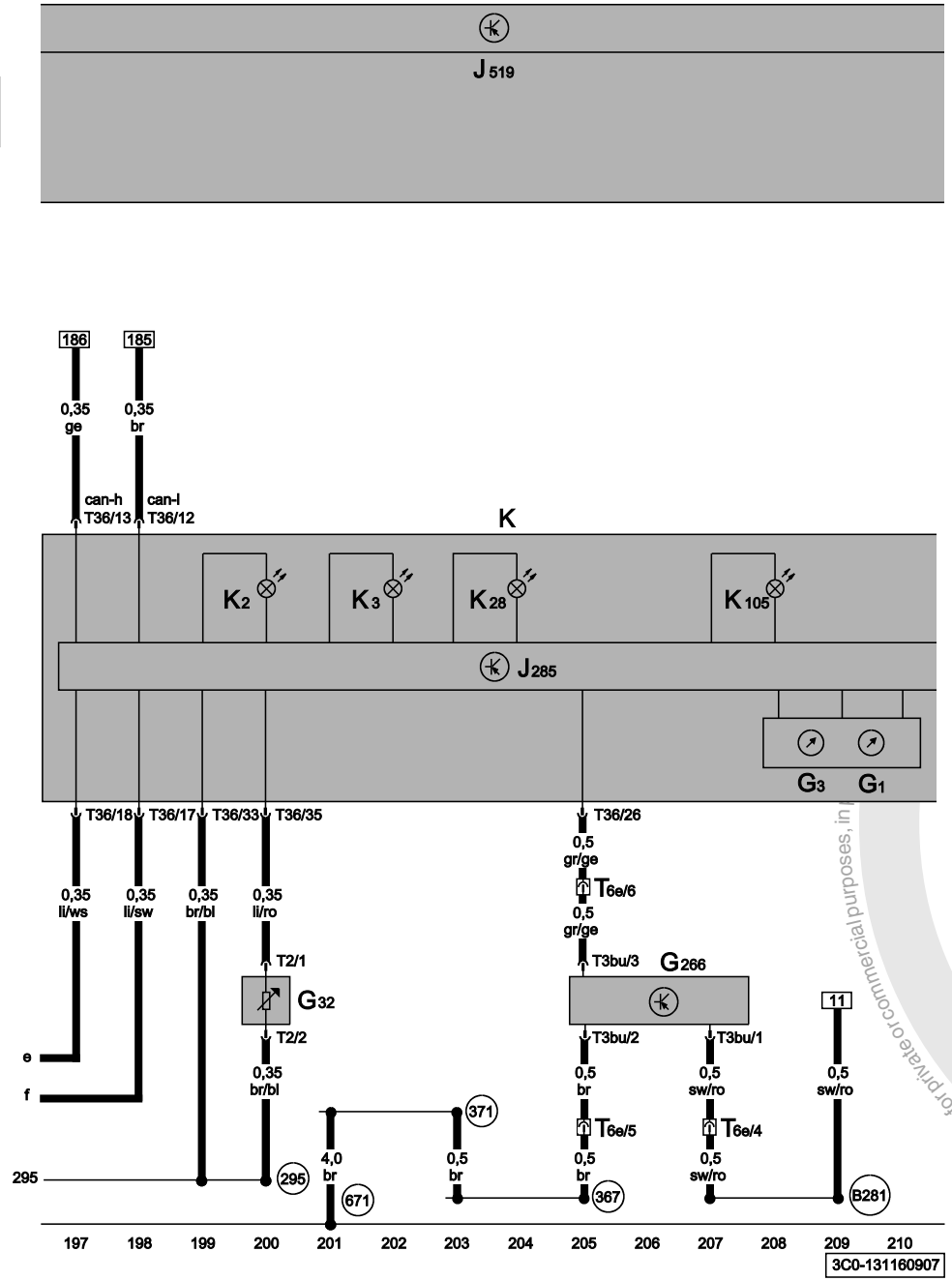


Data bus diagnosis interface, fuel pump control unit, fuel gauge sender

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J538	Fuel pump control unit
T5a	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
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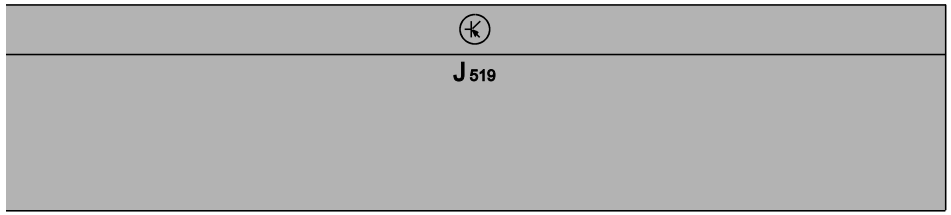


Dash panel insert, coolant shortage indicator sender, oil pressure switch, oil level and oil temperature sender

G1	Fuel gauge
G3	Coolant temperature display
G32	Coolant shortage indicator sender
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K105	Reserve fuel warning lamp
T2	2-pin connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T36	36-pin connector
295	Earth connection 10, in interior wiring harness
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness

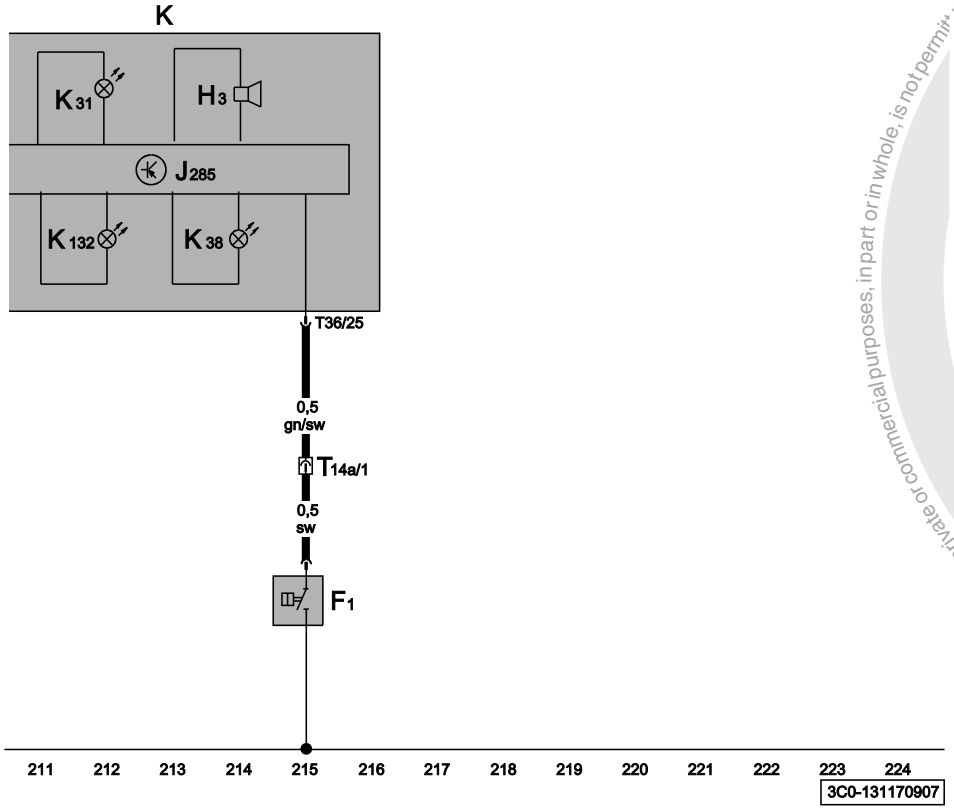
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Dash panel insert, oil pressure switch

F1	Oil pressure switch
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T14a	14-pin connector, coupling point 1 on left in engine compartment
T36	36-pin connector



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sw	=	black
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Reversing camera

From November 2007

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

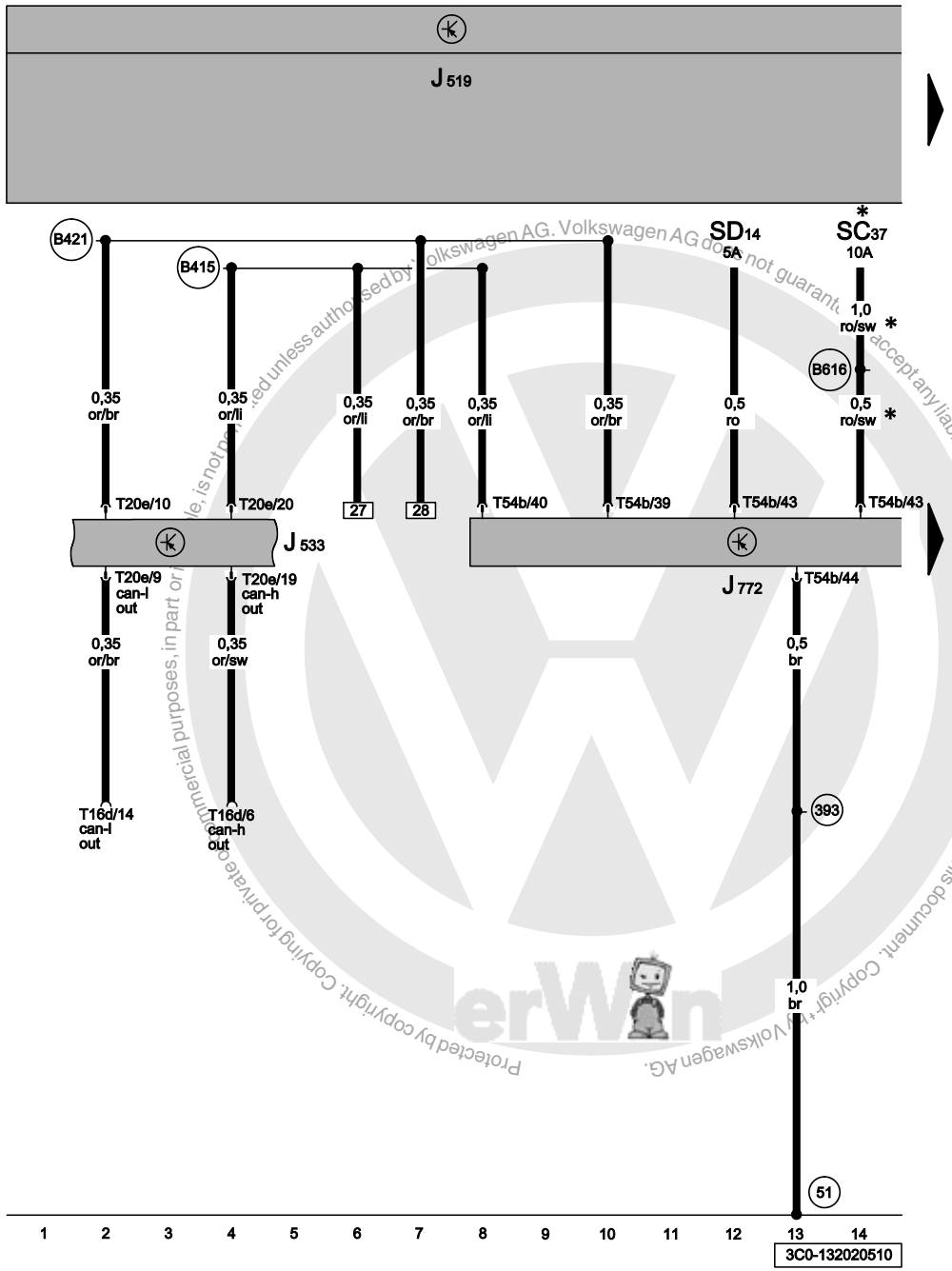
⇒ List of Fitting Locations!

For information concerning

- Fault-finding programs

⇒ Guided fault finding

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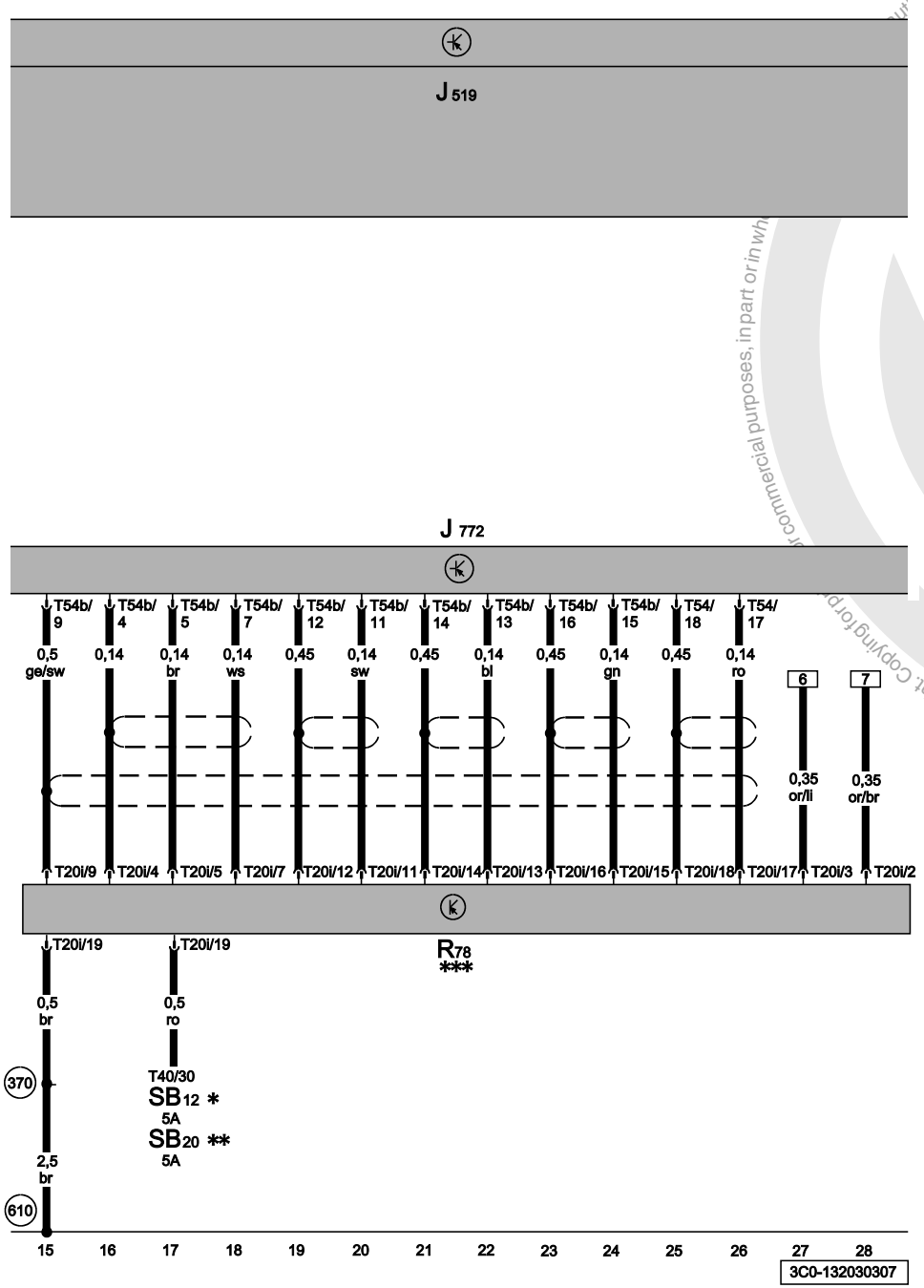


ws = white
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ro = red
br = brown
gn = green
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gr = grey
li = purple
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Vehicle Electrical System Control Module, Data Bus On Board Diagnostic Interface, Rear View Camera System Control Module

J519	Onboard supply control unit
J533	Data bus diagnostic interface
J772	Reversing camera system control unit, in luggage compartment, rear right
SC37	Fuse 37 on fuse holder C
SD14	Fuse 14 on fuse holder D
T16d	16-pin connector, diagnosis connection under left dash panel
T20e	20-pin connector
T54b	54-pin connector
51	Earth point, on right in luggage compartment
393	Earth connection 28, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
B616	Positive connection 12 (30a), in interior wiring harness
*	applicable from May 2009

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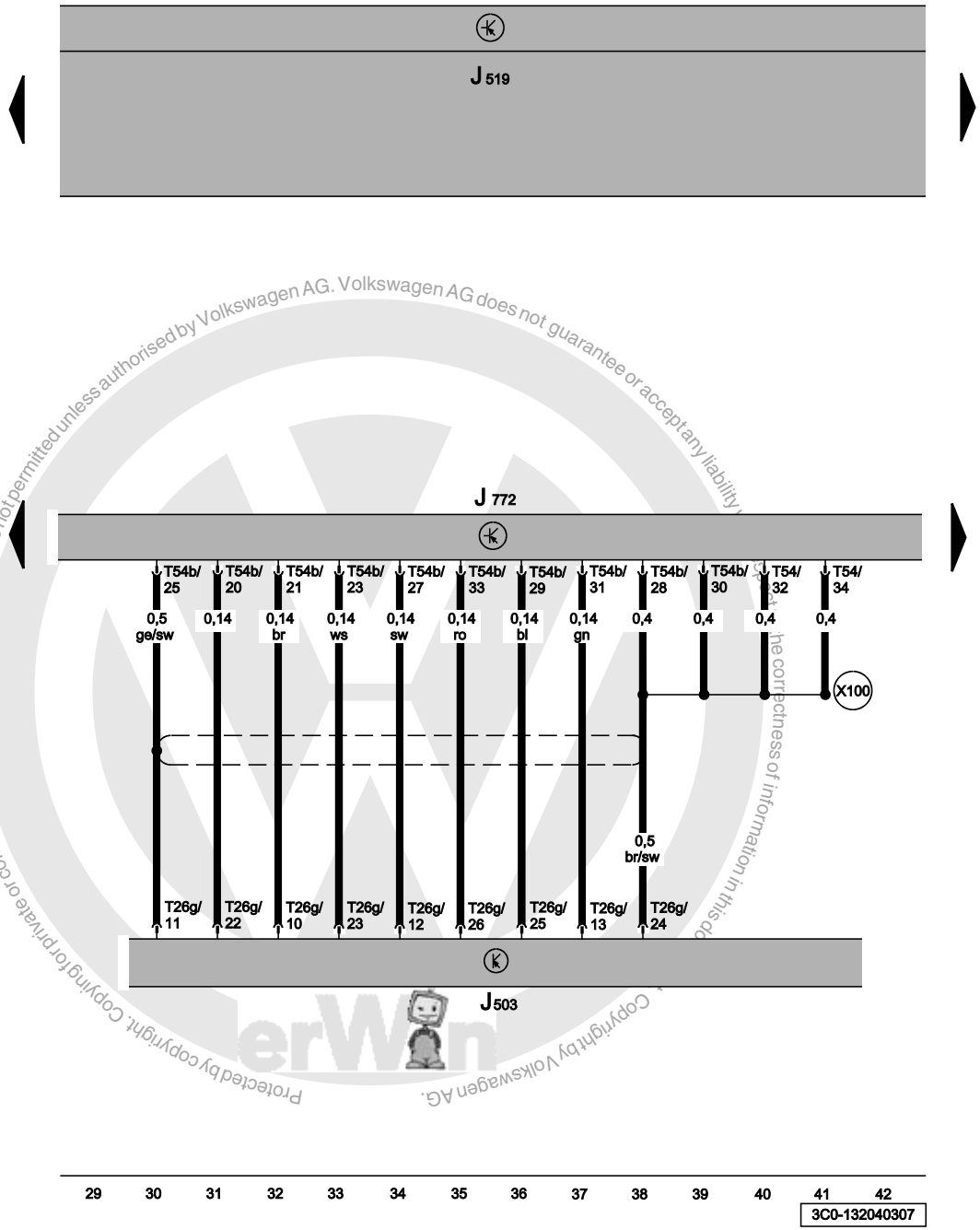


Reversing camera system control unit, TV tuner

J519	Onboard supply control unit
J772	Reversing camera system control unit
R78	TV tuner
SB12	Fuse 12 on fuse holder B
SB20	Sicherung 20 auf Sicherungshalter B
T20i	20-pin connector
T40	40-pin connector
T54b	54-pin connector
370	Earth connection 6, in main wiring harness
610	Earth point (audio), front below centre console
*	Only models with E-box low
**	Only models with E-box high
***	Only models with TV tuner (Japan)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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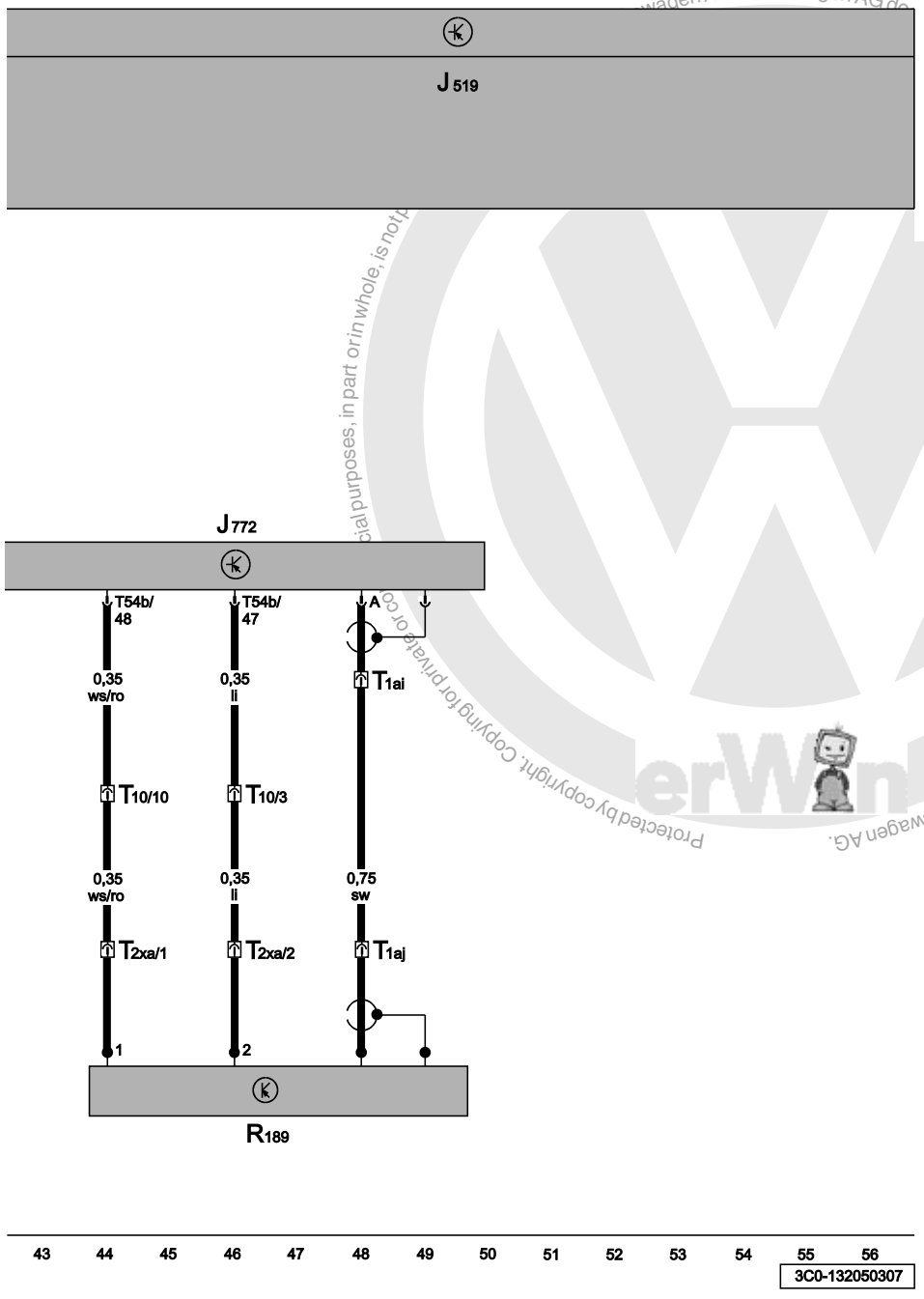


Control unit with display for radio and navigation system, onboard supply control unit, reversing camera system control unit

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J772	Reversing camera system control unit
T26g	26-pin connector
T54b	54-pin connector
X100	Connection (shielding), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Onboard supply control unit, reversing camera system control unit, reversing camera

J519	Onboard supply control unit
J772	Reversing camera system control unit
R189	Reversing camera
T1ai	1-pin connector, grey
T1aj	Single pin connector, near rear lid handle
T2xa	2-pin connector, near rear lid handle
T10	10-pin connector, black, near rear lid left
T54b	54-pin connector

ws	=	white
sw	=	black
ro	=	red
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Seat adjustment with memory function, driver side

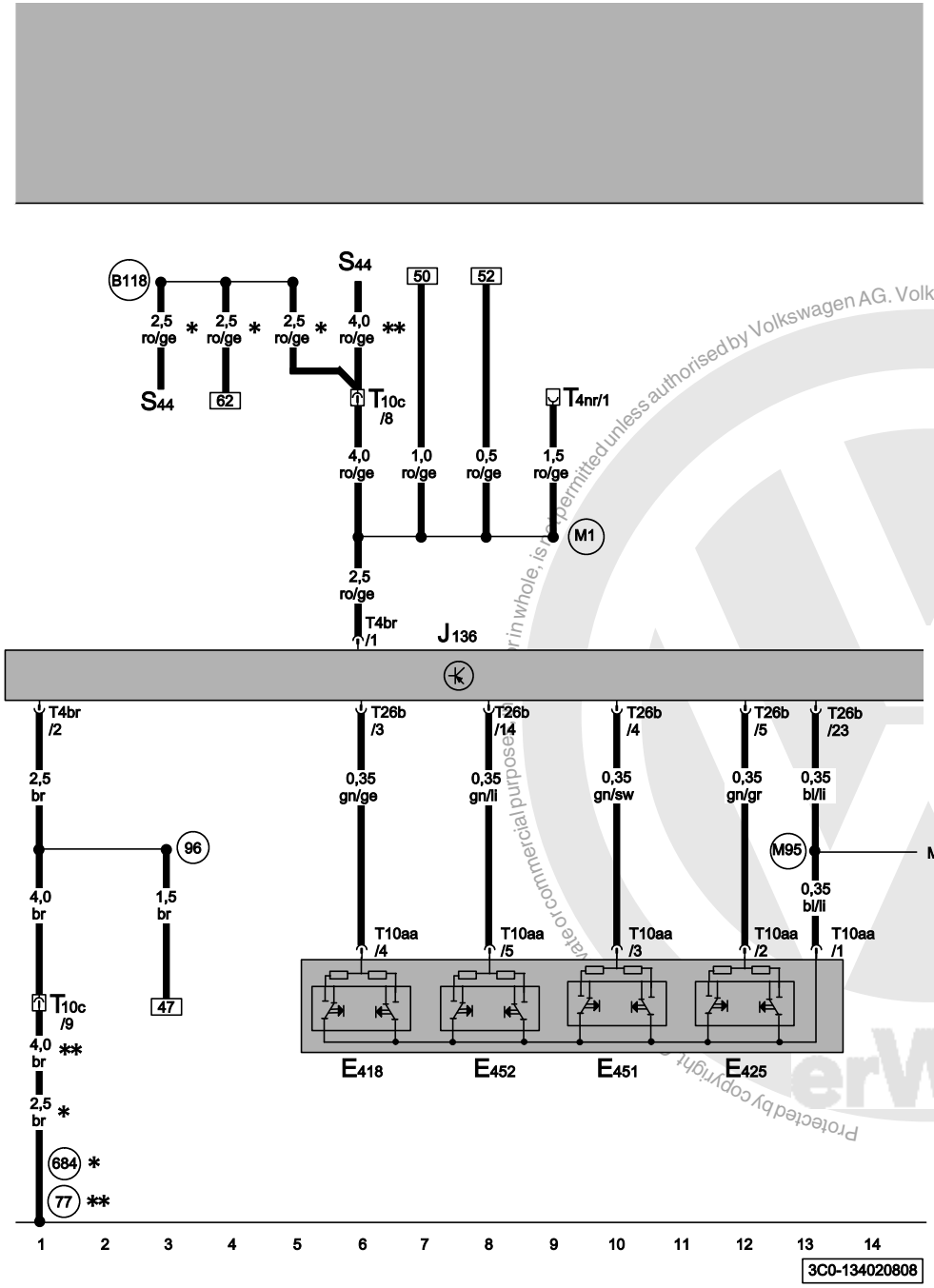
⇒ **Seat adjustment, electrical, front passenger side**
⇒ **Special edition R36**
From May 2007

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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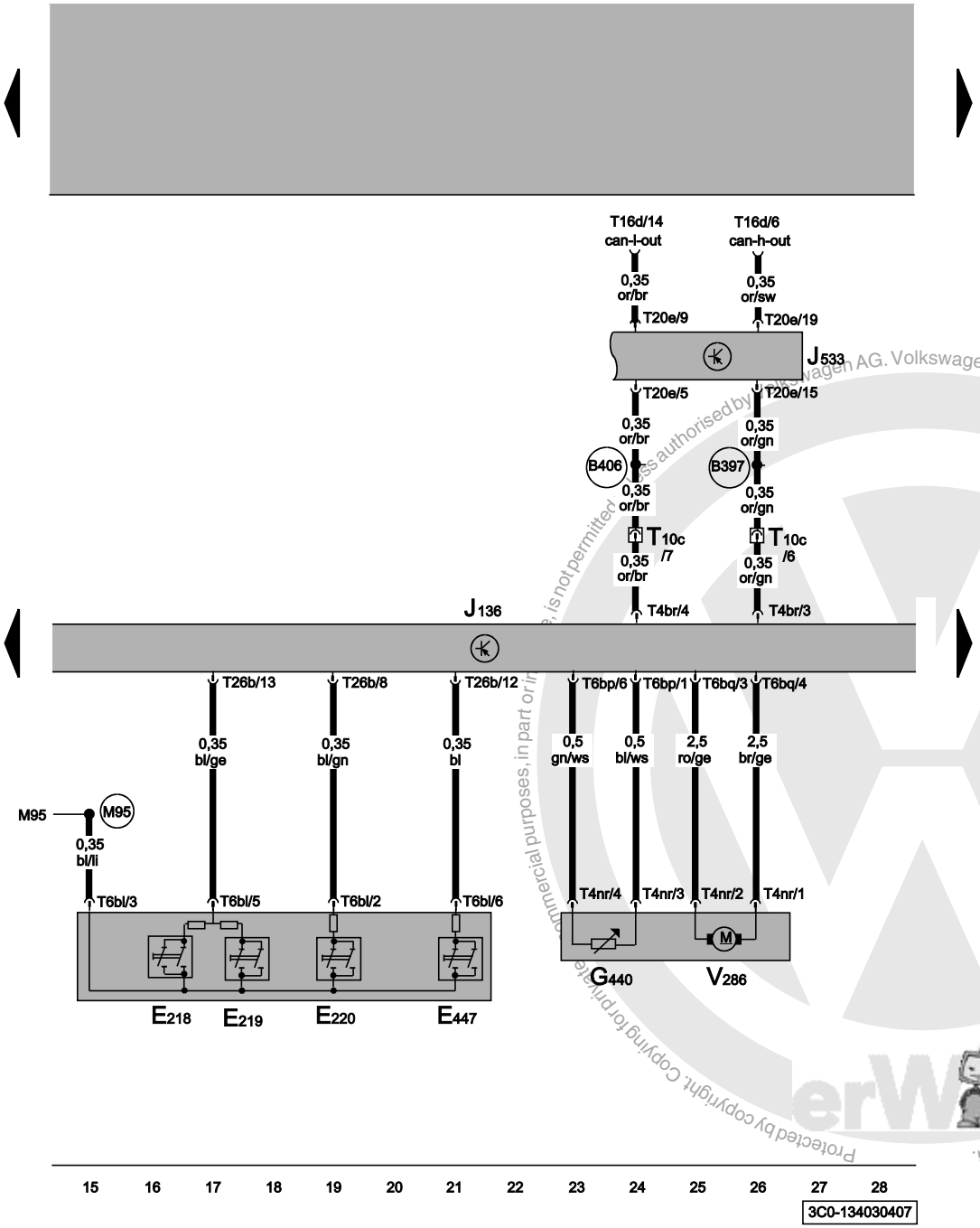


Control unit for seat adjustment and steering column adjustment with memory function, operating unit for driver seat memory

E418	Seat longitudinal adjustment button
E425	Backrest adjustment button
E451	Seat front height adjustment button
E452	Seat rear height adjustment button
J136	Seat and steering column adjustment control unit with memory
S44	Driver seat adjustment thermal fuse 1, on left under dash panel
T4br	4-pin connector, black
T4nr	4-pin connector, black, coupling point driver side, under seat
T10aa	10-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
T26b	26-pin connector, white
77	Earth point, lower part of left B-pillar
96	Earth connection 1, in seat heating wiring harness
684	Earth point on front of left side member
B118	Connection (driver side seat adjustment), in interior wiring harness
M1	Positive connection 1 (30), in seat adjustment wiring harness
M95	Connection 3, seat adjustment wiring harness
*	Applicable from May 2008
**	Applicable to April 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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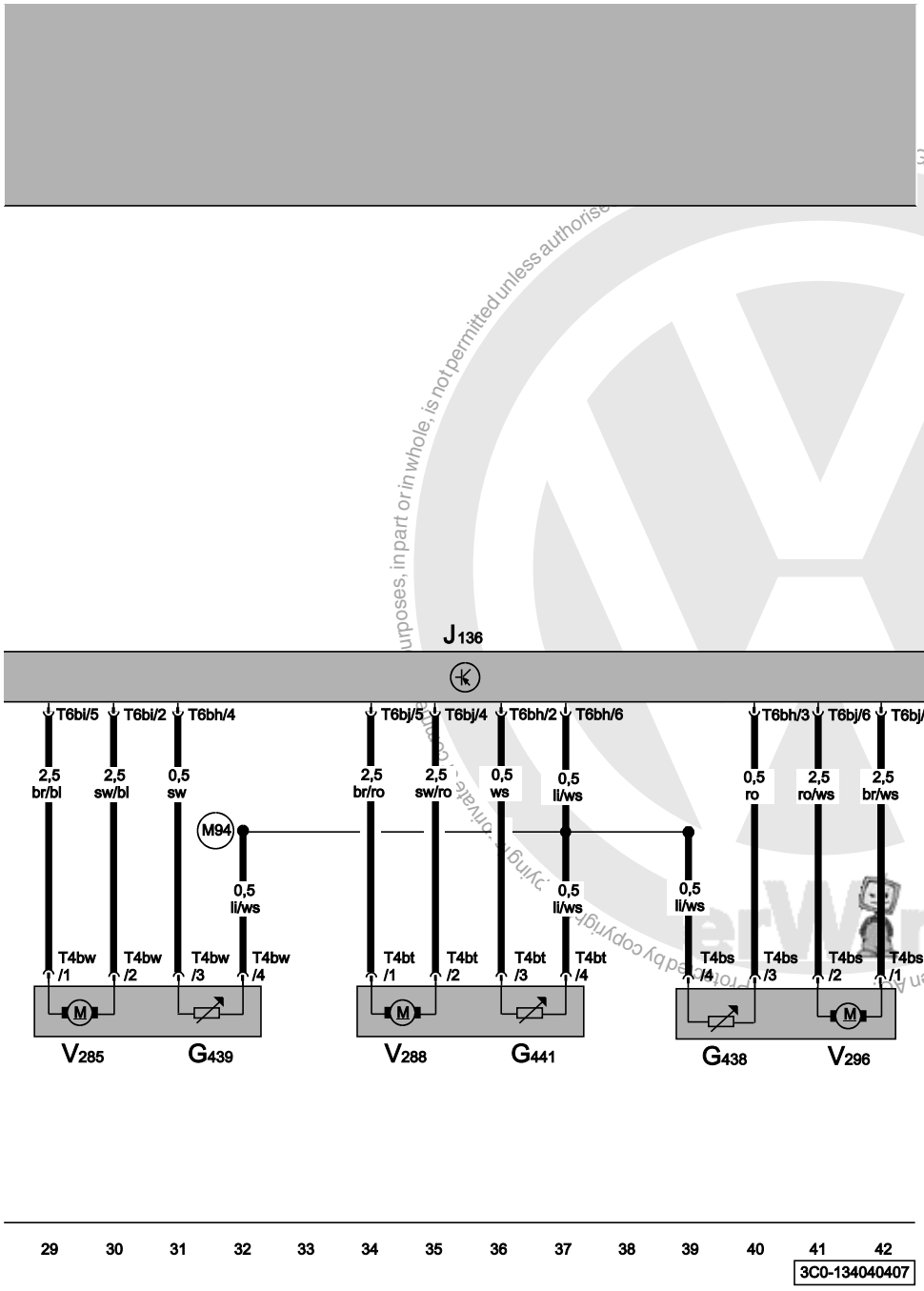


Control unit for seat adjustment and steering column adjustment with memory function, buttons for seat with memory adjustment 1-3, data bus diagnosis interface, self-diagnosis connection

E218	Seat memory position button 1
E219	Seat memory position button 2
E220	Seat memory position button 3
E447	Seat position memory button
G440	Backrest adjustment sender
J136	Seat and steering column adjustment control unit with memory
J533	Data bus diagnostic interface
T4br	4-pin connector, black
T4nr	4-pin connector, black
T6bl	6-pin connector, black
T6bp	6-pin connector, blue
T6bq	8-pin connector, white
T10c	10-pin connector, black, coupling point driver side, under seat
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T26b	26-pin connector, white
V286	Backrest adjustment motor
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
M95	Connection 3, seat adjustment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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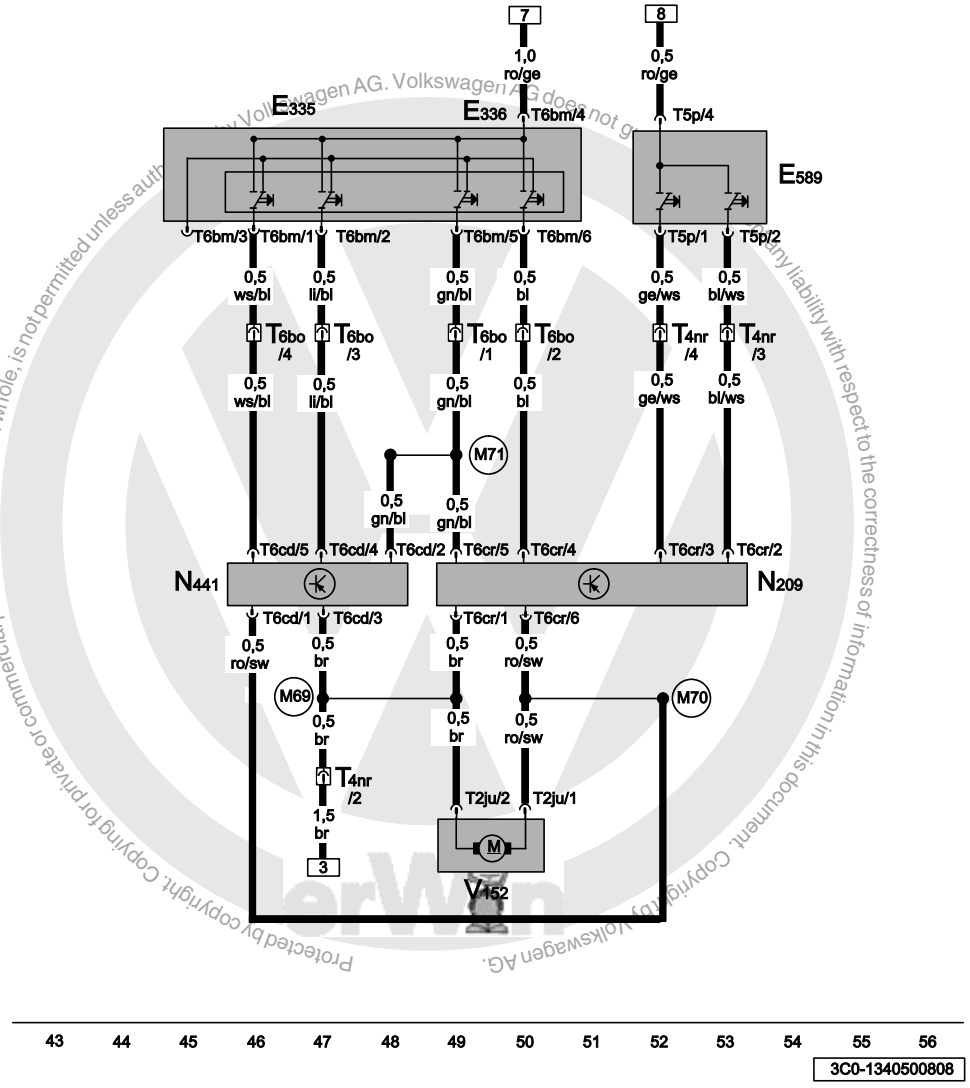


Control unit for seat adjustment and steering column adjustment with memory function, seat height adjustment sender

G438	Seat front height adjustment sender
G439	Seat rear height adjustment sender
G441	Seat longitudinal adjustment sender
J136	Seat and steering column adjustment control unit with memory
T4bs	4-pin connector, black
T4bt	4-pin connector, black
T4bw	4-pin connector, black
T6bh	6-pin connector, brown
T6bi	6-pin connector, blue
T6bj	6-pin connector, black
V285	Seat rear height adjustment motor
V288	Seat longitudinal adjustment motor
V296	Seat front height adjustment motor
M94	Connection 2, seat adjustment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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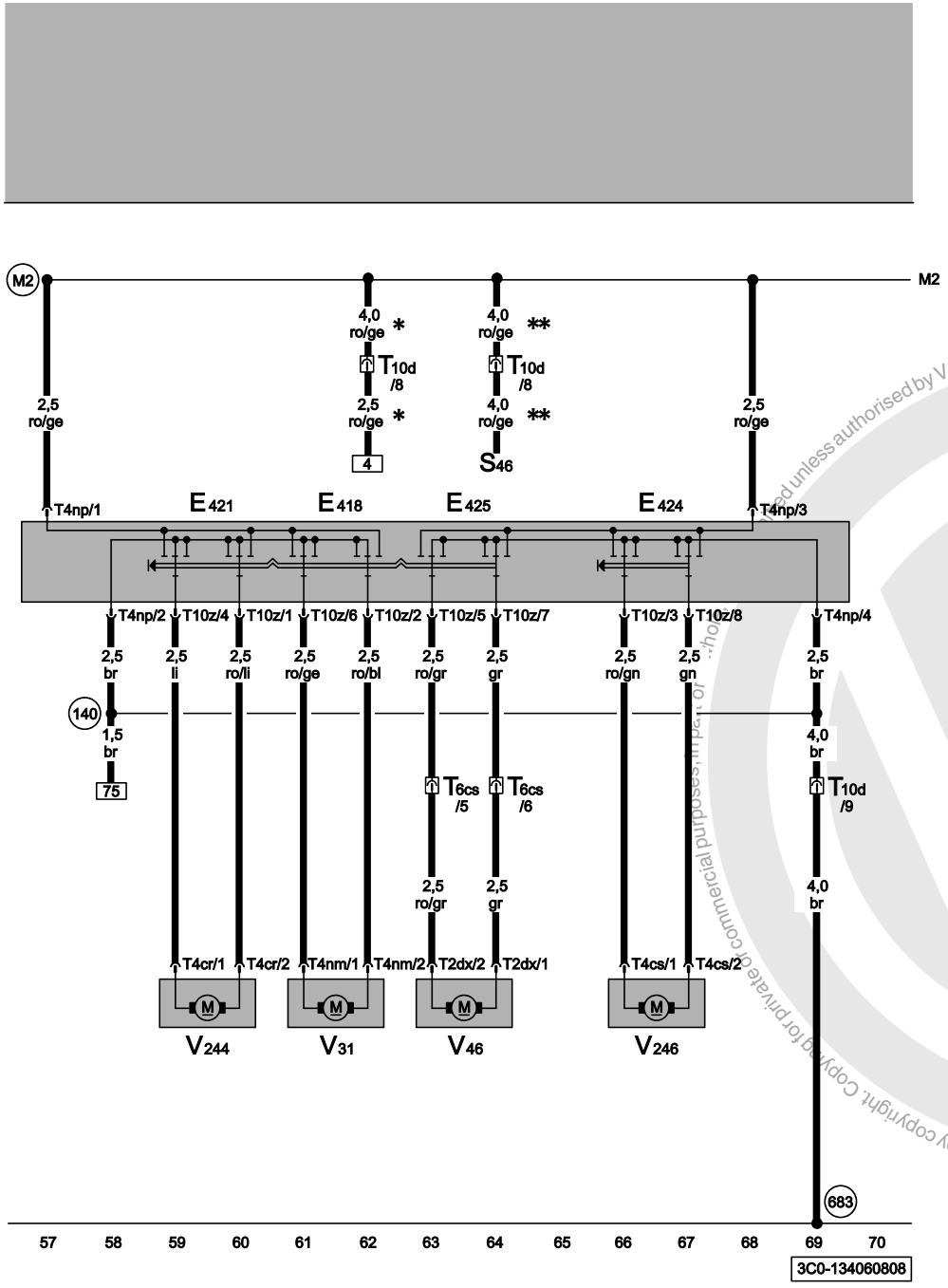


Height adjustment button for lumbar support, longitudinal adjustment button for lumbar support, backrest side support adjustment button for driver seat, valve blocks for lumbar support adjustment on driver side

E335	Lumbar support height adjustment button
E336	Lumbar support longitudinal adjustment button
E589	Button for driver seat backrest bolster adjustment
N209	Lumbar support adjustment valve block on driver side
N441	Valve block 2 for lumbar support adjustment on driver side
T2ju	2-pin connector, black
T4nr	4-pin connector, black, coupling point driver side, under seat
T5p	5-pin connector
T6bm	6-pin connector
T6bo	6-pin connector, black, coupling point driver side, under seat
T6cd	6-pin connector
T6cr	6-pin connector
V152	Driver seat lumbar support adjustment pump
M69	Connection 9, in rear seat wiring harness
M70	Connection 10, in rear seat wiring harness
M71	Connection 11, in rear seat wiring harness

ws	=	white
sw	=	black
ro	=	red
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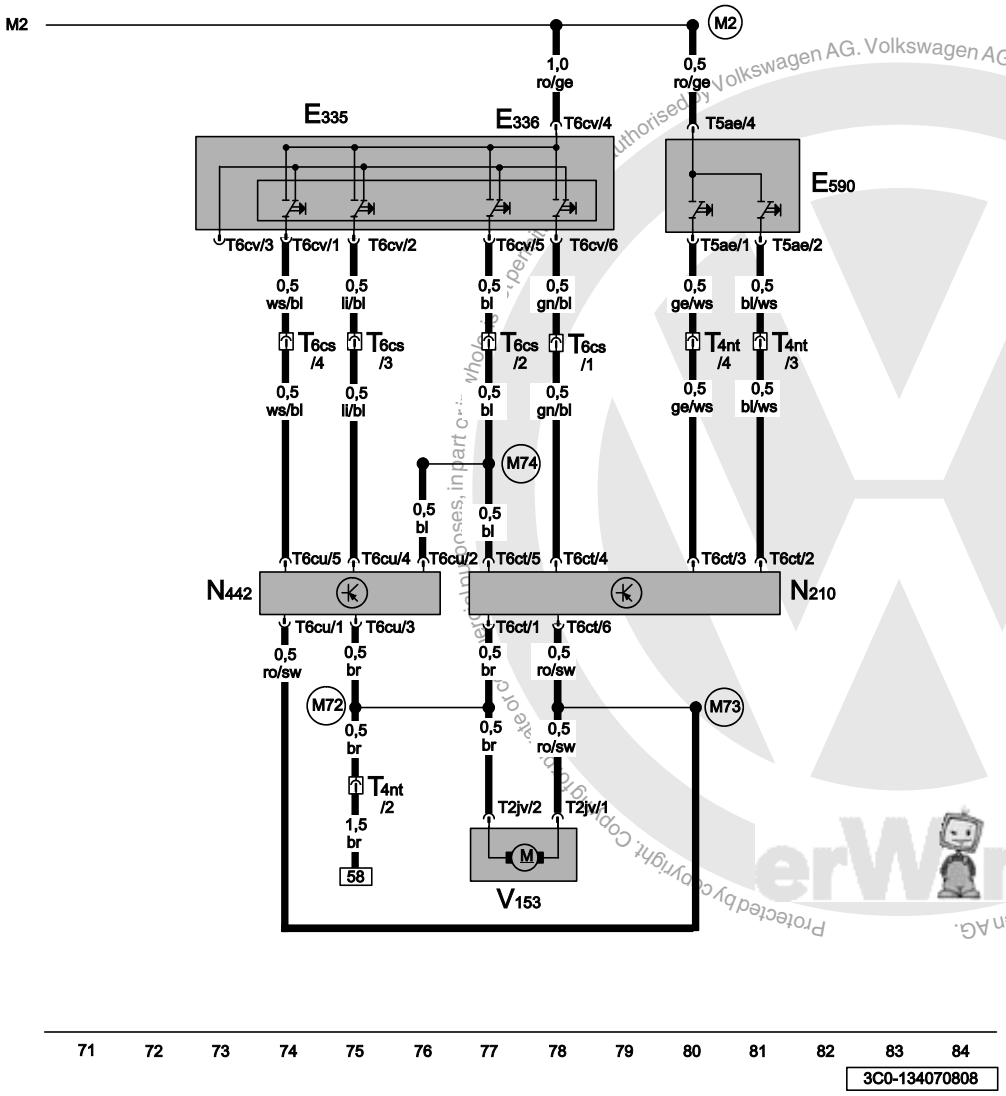


Longitudinal adjustment for front passenger seat, height adjustment for front passenger seat, backrest adjustment for front passenger seat, rake angle adjustment for front passenger seat

E418	Seat longitudinal adjustment button
E421	Rake adjustment button
E424	Seat height adjustment button
E425	Backrest adjustment button
S46	Front passenger seat adjustment thermal fuse 1
T2dx	2-pin connector
T4cr	4-pin connector
T4cs	4-pin connector
T4nm	4-pin connector, black
T4np	4-pin connector
T6cs	6-pin connector, coupling point front passenger side, under seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
T10z	10-pin connector
V31	Front passenger seat longitudinal adjustment motor
V46	Front passenger seat backrest adjustment motor
V244	Front passenger seat rake adjustment motor
V246	Front passenger seat height adjustment motor
140	Earth connection 2, in seat adjustment wiring harness
683	Earth point on front of right side member
M2	Positive connection 2 (30), in seat adjustment wiring harness
*	Applicable from May 2008
**	Applicable to April 2008

ws	=	white
sw	=	black
ro	=	red
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Height adjustment button for lumbar support, longitudinal adjustment button for lumbar support, backrest side support adjustment button for front passenger seat, valve blocks for lumbar support adjustment on front passenger side

E335	Lumbar support height adjustment button
E336	Lumbar support longitudinal adjustment button
E590	Button for front passenger seat backrest bolster adjustment
N210	Lumbar support adjustment valve block on front passenger side
N442	Valve block 2 for lumbar support adjustment on front passenger side
T2jv	2-pin connector, black
T4nt	4-pin connector, black, coupling point driver side, under seat
T5ae	5-pin connector
T6cs	6-pin connector, black, coupling point front passenger side, under seat
T6ct	6-pin connector
T6cu	6-pin connector
T6cv	6-pin connector
V153	Front passenger side lumbar support adjustment pump
M2	Positive connection 2 (30), in seat adjustment wiring harness
M72	Connection 12, in rear seat wiring harness
M73	Connection 13, in rear seat wiring harness
M74	Connection 14, in rear seat wiring harness

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Multifunction steering wheel

⇒ **4 spoke steering wheel (2ZA, 2ZM)**

From April 2006

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

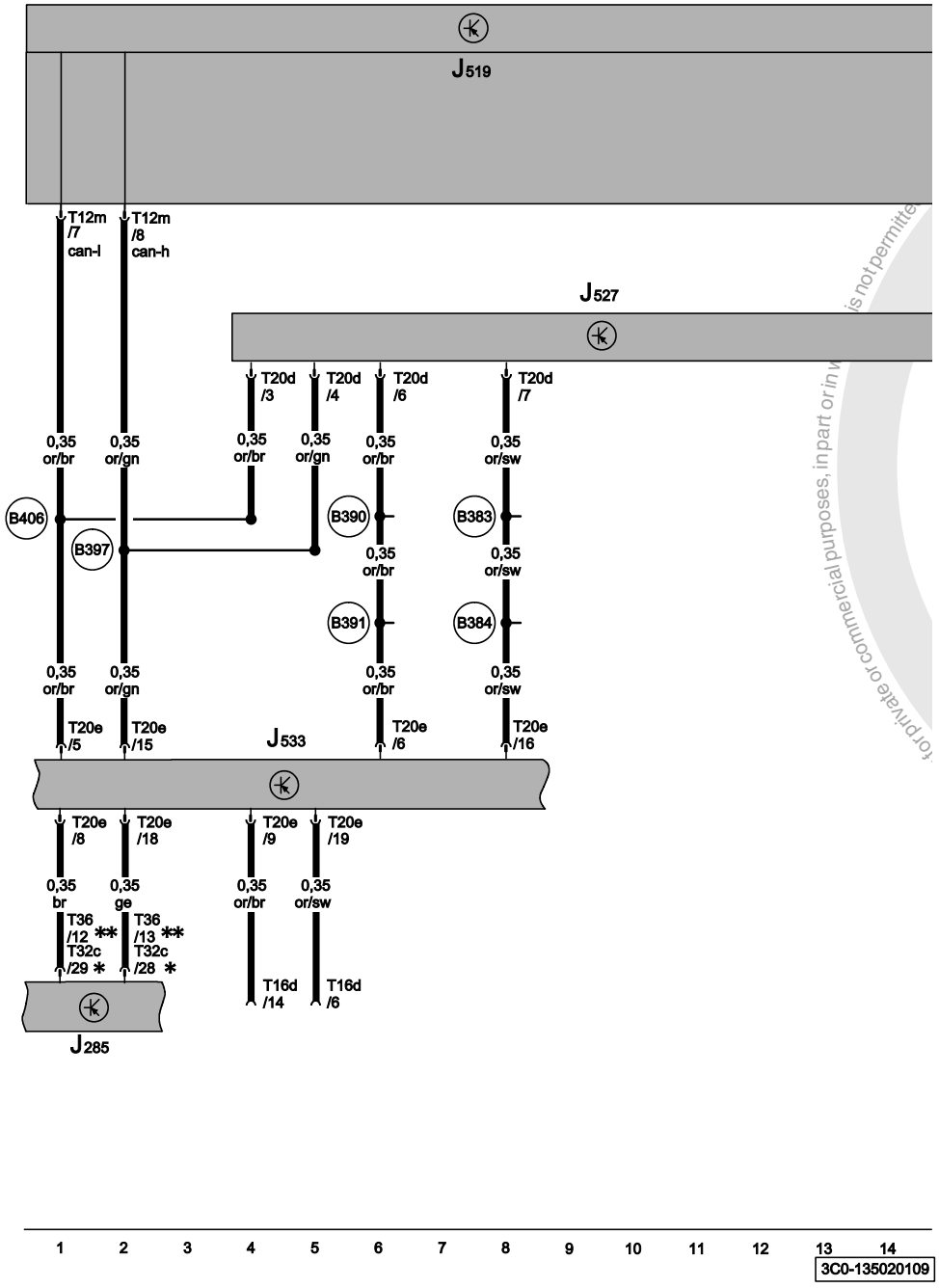
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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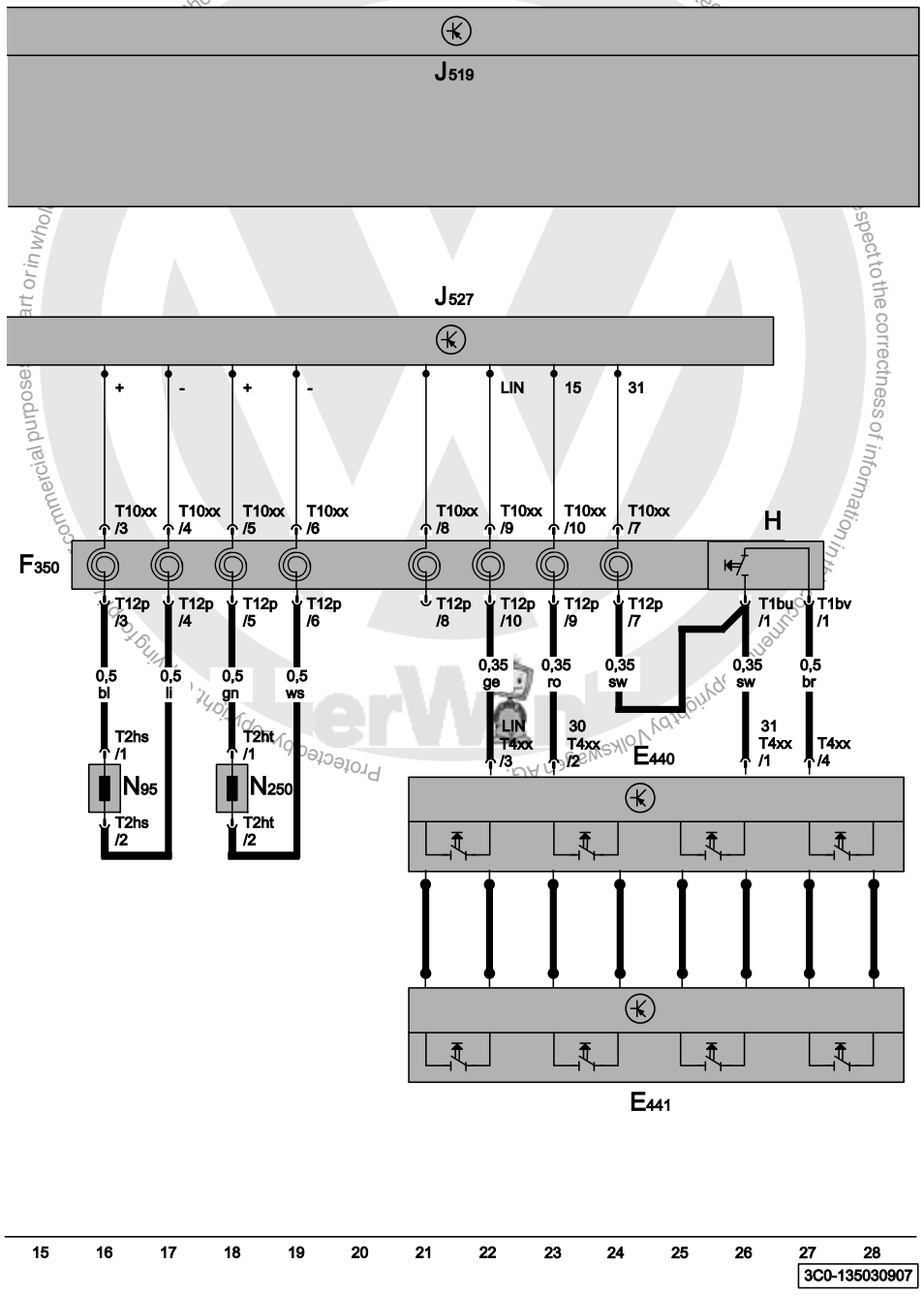


Steering column electronics control unit, data bus diagnosis interface

J285	Control unit in dash panel insert
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
T12m	12-pin connector, black
T16d	16-pin connector, self-diagnosis connection
T20d	20-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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gr	=	grey
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Multifunction buttons in steering wheel, horn plate, coil connector, driver side airbag igniter

F350	Coil connector
E440	Multifunction buttons on left in steering wheel
E441	Multifunction buttons on right in steering wheel
H	Horn plate
J519	Onboard supply control unit
J527	Steering column electronics control unit
N95	Driver side airbag igniter
N250	Driver airbag igniter 2
T1bu	Single connector
T1bv	Single connector
T2hs	2-pin connector
T2ht	2-pin connector
T4xx	4-pin connector
T10xx	10-pin connector
T12p	12-pin connector

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Convenience system

⇒ **Electrically adjustable and heated exterior mirrors**
⇒ **Anti-theft alarm system with interior monitoring**
⇒ **Window regulator front and rear**
⇒ **Mirror turn signal**
⇒ **Central locking with remote control**

From November 2007

Notes:

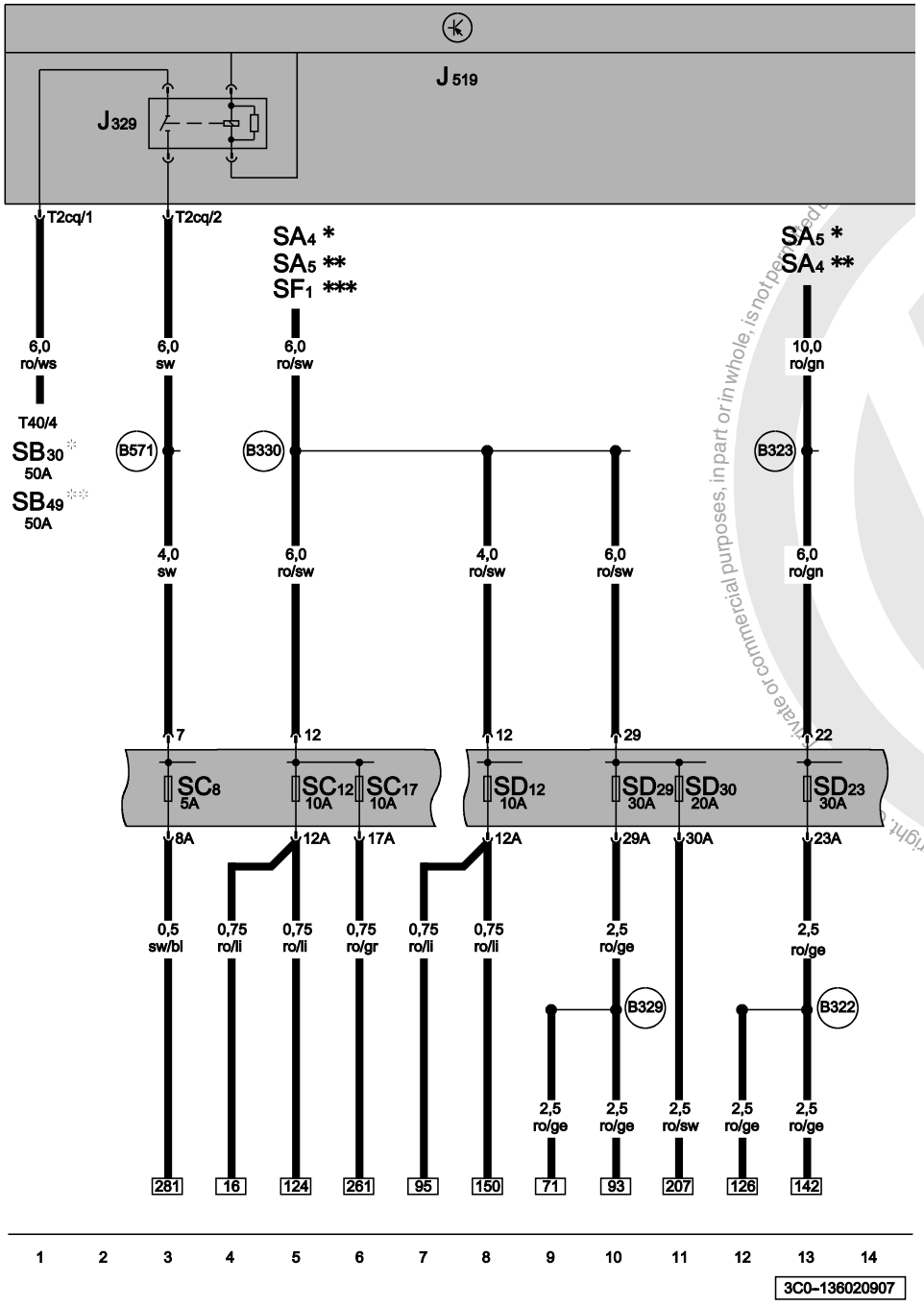
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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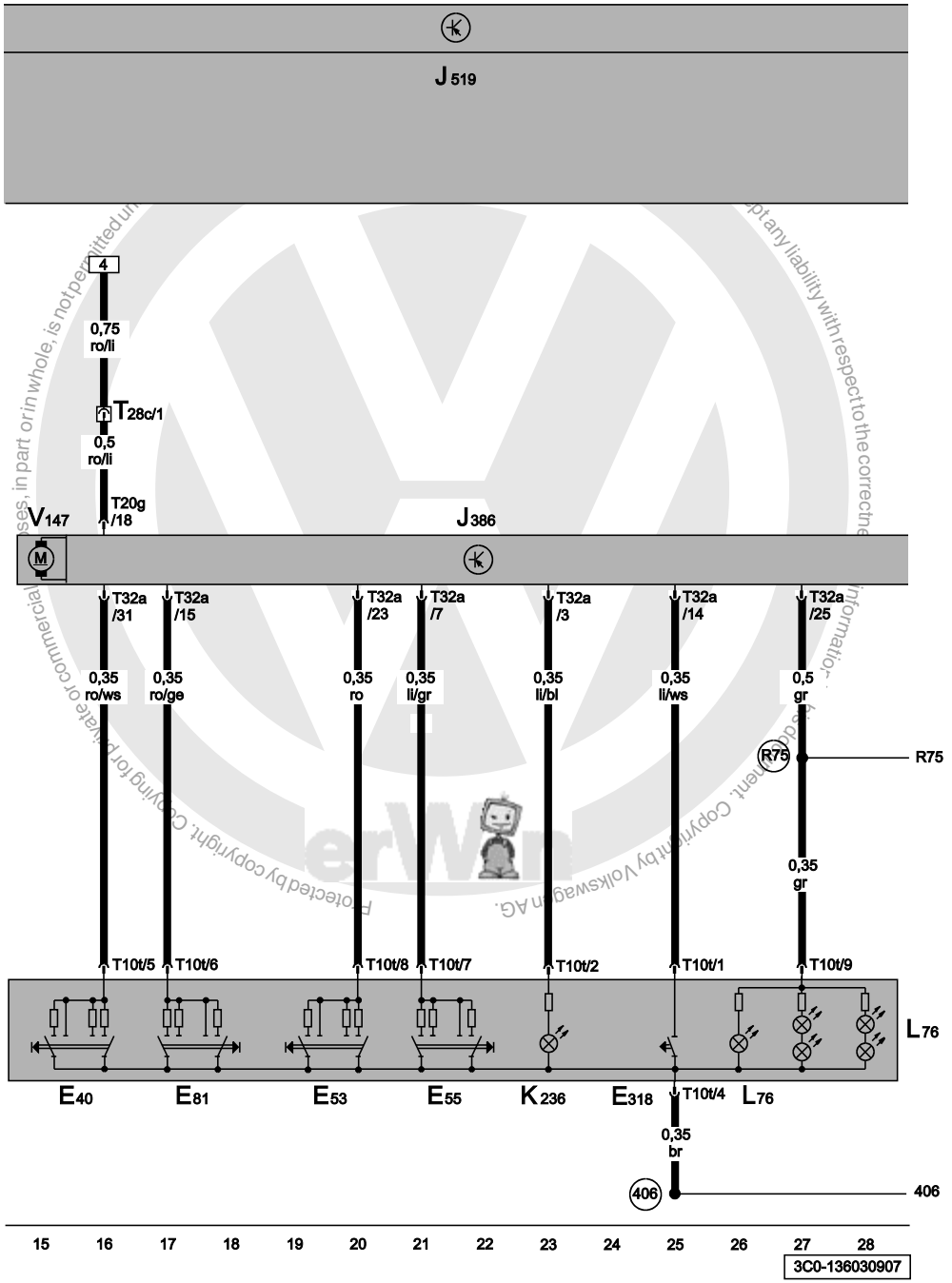


Terminal 15 voltage supply relay, onboard supply control unit, fuses

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC8	Fuse 8 on fuse holder C
SC12	Fuse 12 on fuse holder C
SC17	Fuse 17 on fuse holder C
SD12	Fuse 12 on fuse holder D
SD23	Fuse 23 on fuse holder D
SD29	Fuse 29 on fuse holder D
SD30	Fuse 30 on fuse holder D
SF1	Fuse 1 on fuse holder F
T2cq	2-pin connector, brown
T40	40-pin connector, on E-box
B322	Connection 8 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness
B329	Connection 15 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B571	Connection 38, in main wiring harness
*	Fuses in E-box Low
**	Fuses in E-box High
***	Only models with engine code AXZ, BLV

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

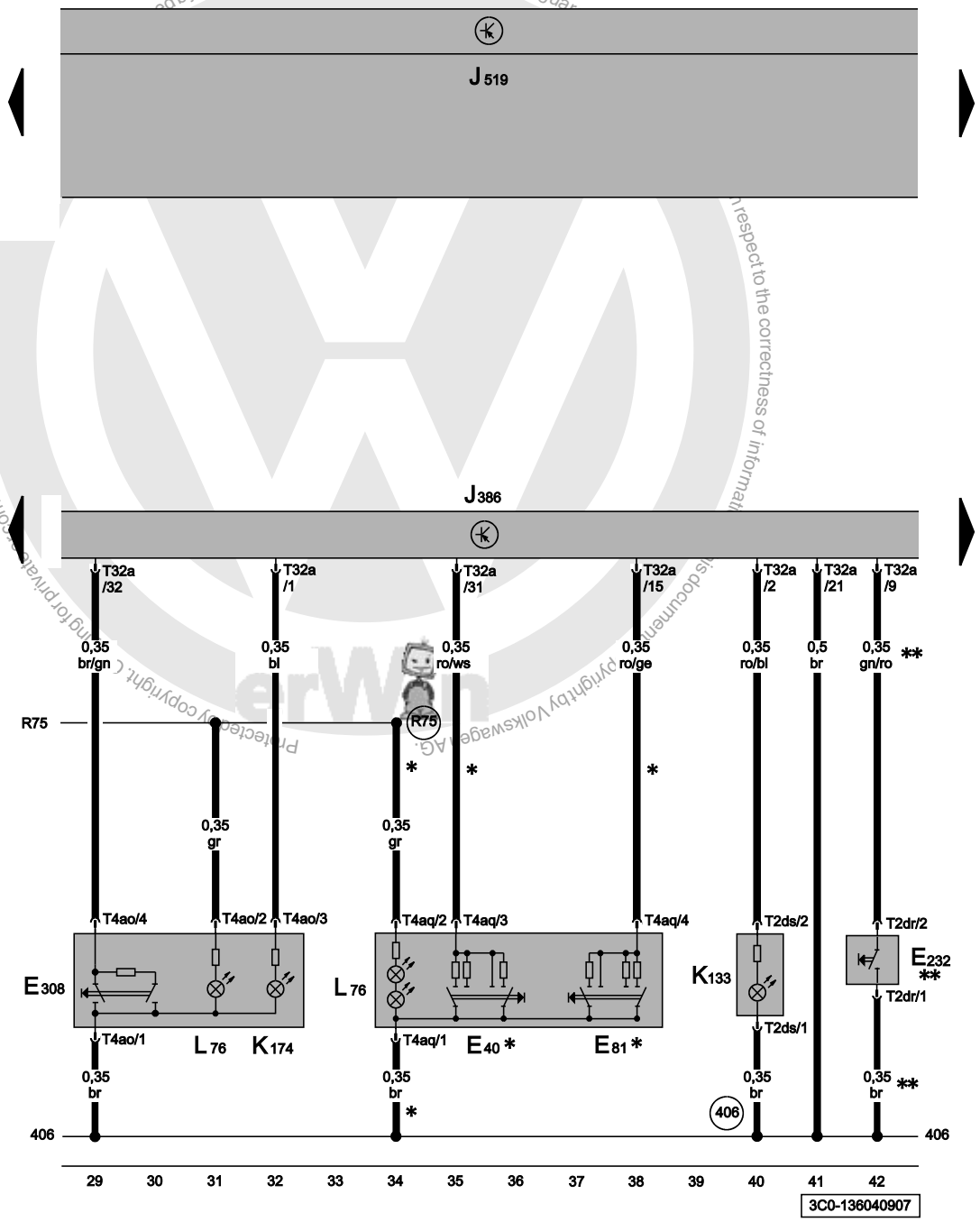
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Driver door control unit, front left window regulator switch, window regulator switch and rear left and rear right in driver door

E40	Front left window regulator switch
E53	Rear left window regulator switch, in driver door
E55	Rear right window regulator switch, in driver door
E81	Front right window regulator switch in driver door
E318	Childproof lock button
J386	Driver door control unit
J519	Onboard supply control unit
K236	Warning light for activated childproof lock
L76	Button illumination bulb
T10t	10-pin connector
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
T32a	32-pin connector
V147	Driver side window regulator motor
406	Earth connection 3, in drive side door wiring harness
R75	Connection 1 (58d), in door control unit wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

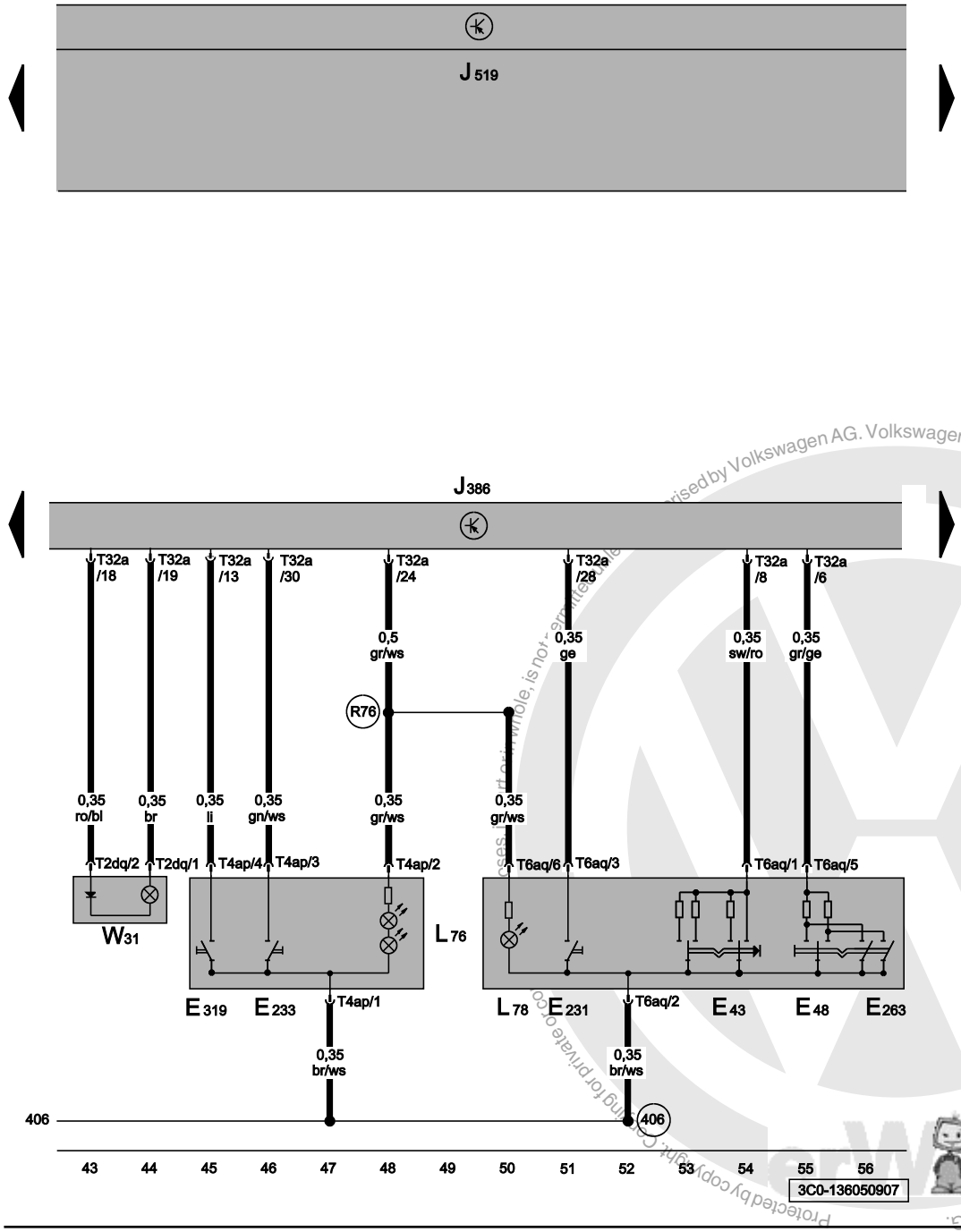


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Driver door control unit, central locking deadlock function warning lamp -SAFE-, driver side interior locking warning lamp, key operated switch to block release of rear lid remote

E40	Front left window regulator switch
E81	Front right window regulator switch in driver door
E232	Key operated switch to block release of rear lid remote
E308	Driver side interior locking button for central locking system
J386	Driver door control unit
J519	Onboard supply control unit
K133	Central locking deadlock function warning lamp -SAFE-
K174	Driver side interior locking warning lamp
L76	Button illumination bulb
T2dr	2-pin connector
T2ds	2-pin connector
T4ao	4-pin connector
T4aq	4-pin connector
T32a	32-pin connector
(406)	Earth connection 3, in drive side door wiring harness
(R75)	Connection 1 (58d), in door control unit wiring harness
*	Only models with manually operated window regulators in rear
**	Only for saloon and American markets

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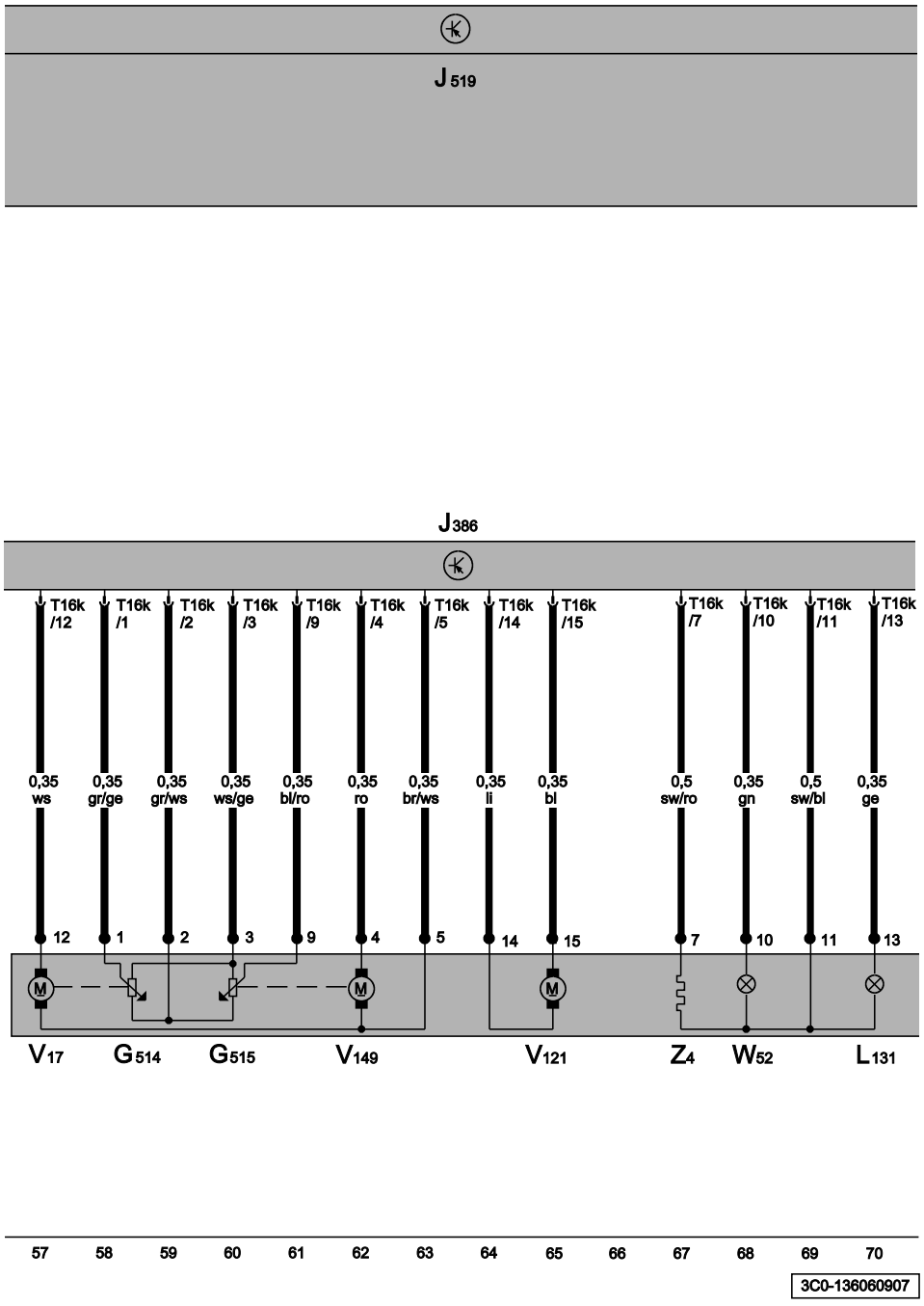


Driver door control unit, mirror adjustment switch, button for remote release of rear lid, button for remote release of fuel tank flap, front left entry light

E43	Mirror adjustment switch
E48	Mirror adjustment changeover switch
E231	Exterior mirror heater button
E233	Rear lid remote release button
E263	Fold-in mirror switch
E319	Fuel tank flap release button
J386	Driver door control unit
J519	Onboard supply control unit
L76	Button illumination bulb
L78	Mirror adjustment switch illumination bulb
T2dq	2-pin connector
T4ap	4-pin connector
T6aq	6-pin connector
T32a	32-pin connector
W31	Front left entry light
406	Earth connection 5, in drive side door wiring harness
R76	Connection 2 (58d), in door control unit wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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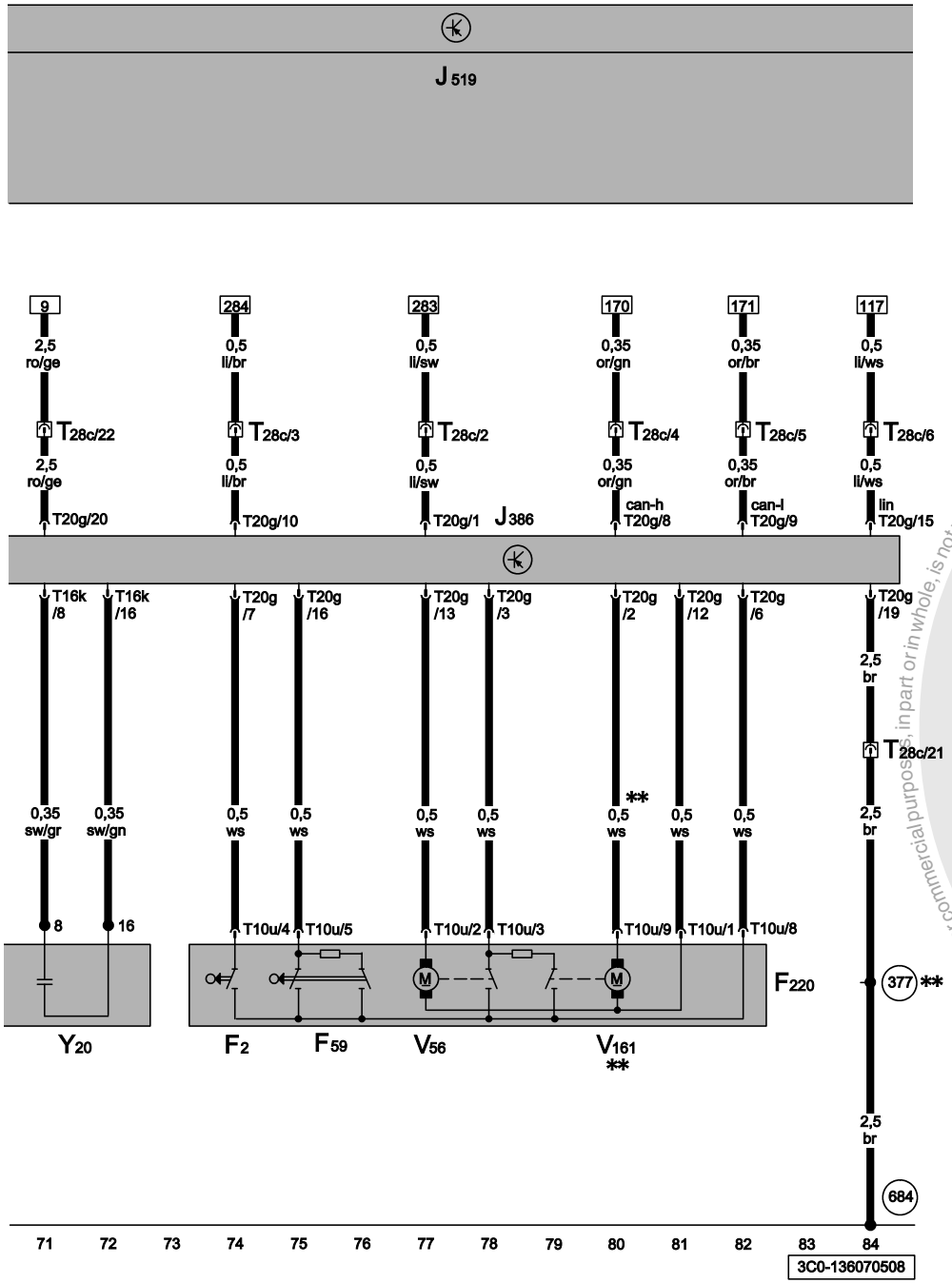


Driver door control unit, mirror adjustment and fold-in mirror motors

G514	Potentiometer for horizontal adjustment of driver side mirror
G515	Potentiometer for vertical adjustment of driver side mirror
J386	Driver door control unit
J519	Onboard supply control unit
L131	Driver side exterior mirror turn signal bulb
T16k	16-pin connector
V17	Driver side mirror adjustment motor
V121	Driver side fold-in mirror motor
V149	Driver side mirror adjustment motor
W52	Driver side entry light in exterior mirror
Z4	Heated exterior mirror on driver side

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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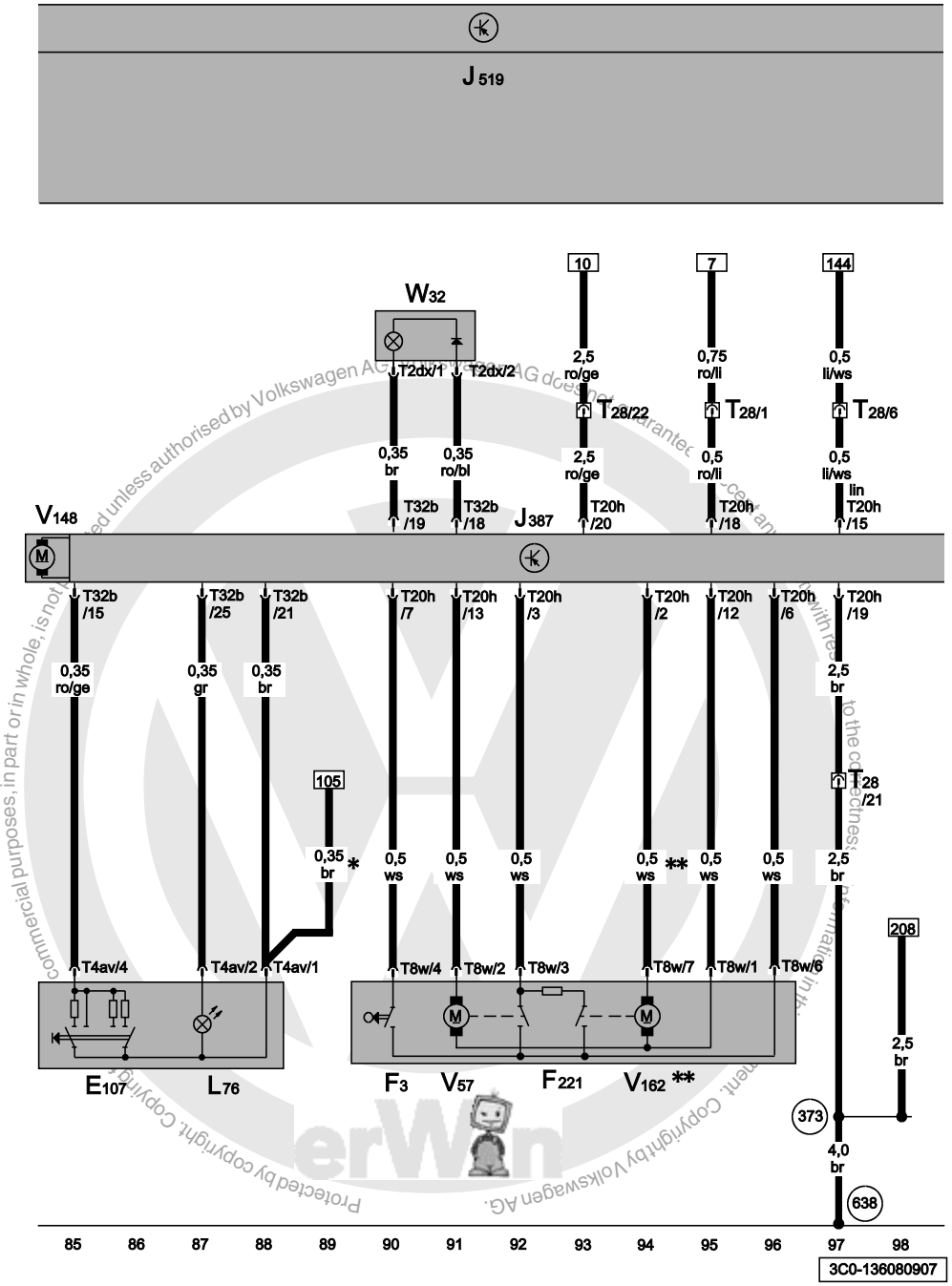


Driver door control unit, door contact switch, lock unit for central locking, automatic anti-dazzle exterior mirror driver side

F2	Driver door contact switch
F59	Central locking switch on driver side
F220	Driver side central locking lock unit
J386	Driver door control unit
J519	Onboard supply control unit
T10u	10-pin connector
T16k	16-pin connector
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
V56	Driver door central locking motor
V161	Driver door central locking deadlock function motor
Y20	Driver side automatic anti-dazzle exterior mirror
377	Earth connection 12, in main wiring harness
684	Earth point, on front of left side member
**	Only models with entry and start authorisation (Kessy)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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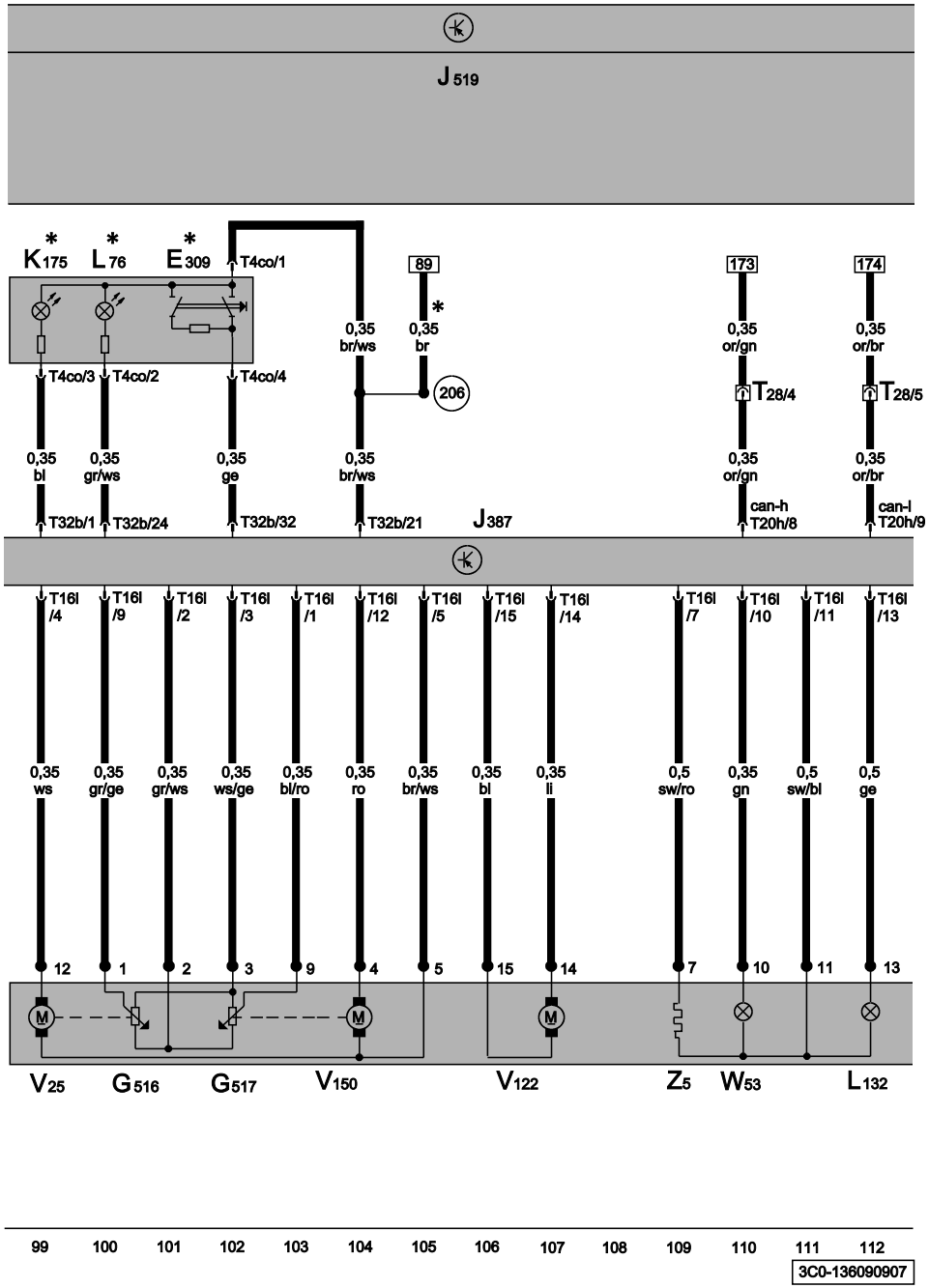


Front passenger door control unit, front passenger side central locking lock unit, window regulator switch, front right entry light

E107	Window regulator switch in front passenger door
F3	Front passenger door contact switch
F221	Front passenger side central locking lock unit
J387	Front passenger side door control unit
J519	Onboard supply control unit
L76	Button illumination bulb
T2dx	2-pin connector
T4av	4-pin connector
T8w	8-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T32b	32-pin connector
V57	Front passenger seat central locking motor
V148	Front passenger side window regulator motor
V162	Front passenger door central locking deadlock function motor
W32	Front right entry light
373	Earth connection 8, in main wiring harness
638	Earth point, on right A-pillar
*	Depends on equipment
**	Only models with entry and start authorisation (Kessy)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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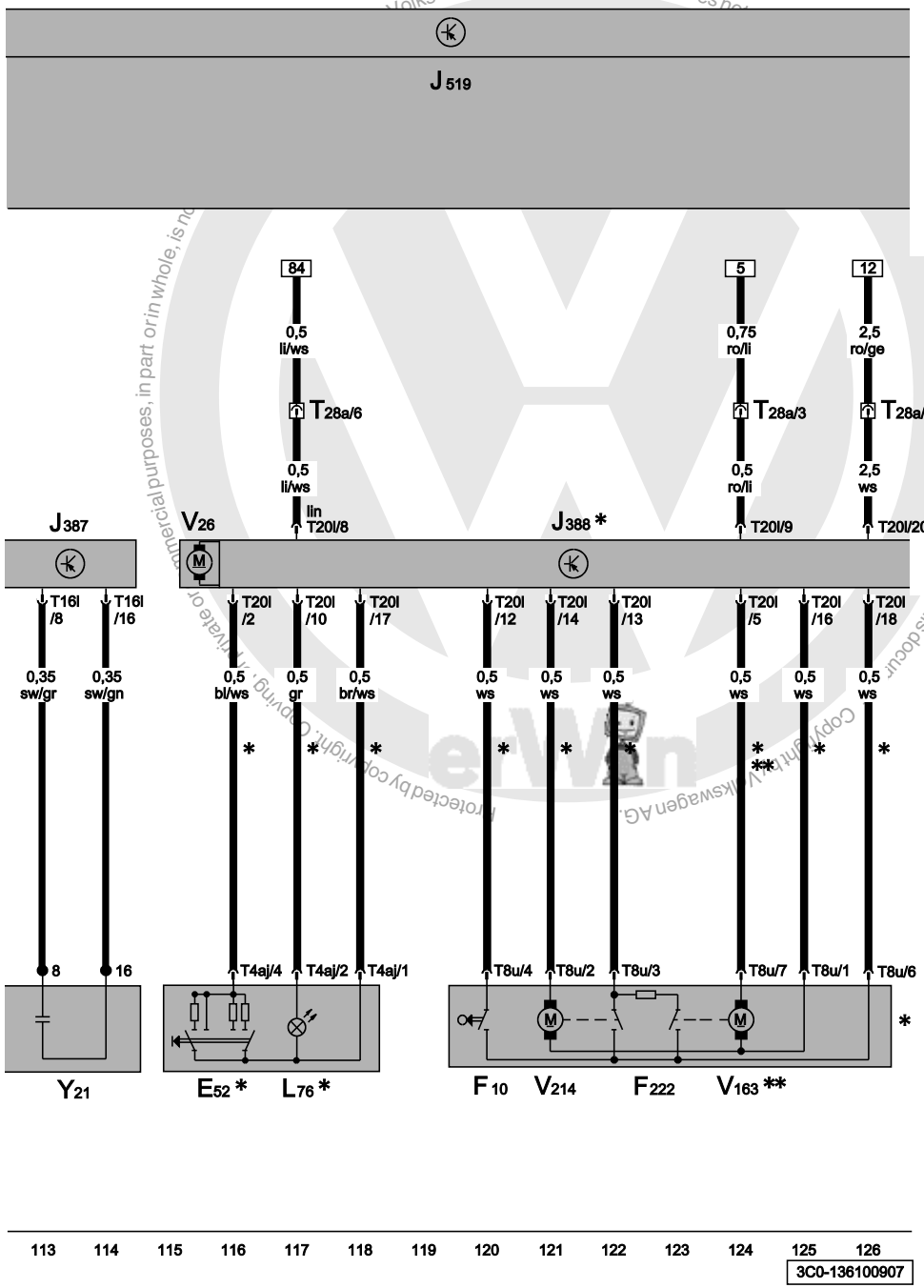


Front passenger door control unit, front passenger side interior locking button, front passenger side mirror adjustment motor

E309	Front passenger side interior locking button for central locking system
G516	Potentiometer for horizontal adjustment of front passenger side mirror
G517	Potentiometer for vertical adjustment of front passenger side mirror
J387	Front passenger side door control unit
J519	Onboard supply control unit
K175	Front passenger side interior locking warning lamp
L76	Button illumination bulb
L132	Front passenger side exterior mirror turn signal bulb
T4co	4-pin connector
T16l	16-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T32b	32-pin connector
V25	Front passenger side mirror adjustment motor
V122	Front passenger side fold-in mirror motor
V150	Front passenger side mirror adjustment motor
W53	Front passenger side entry light in exterior mirror
Z5	Heated exterior mirror on front passenger side
(206)	Earth connection, in front passenger door wiring harness
*	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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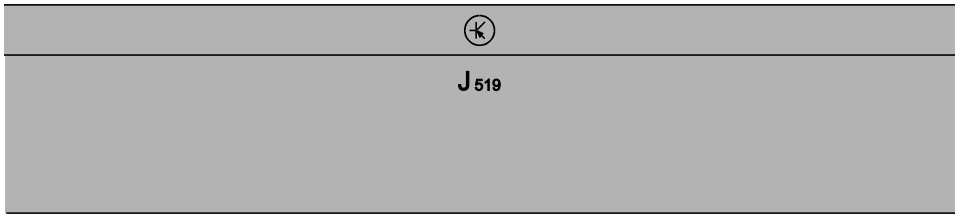


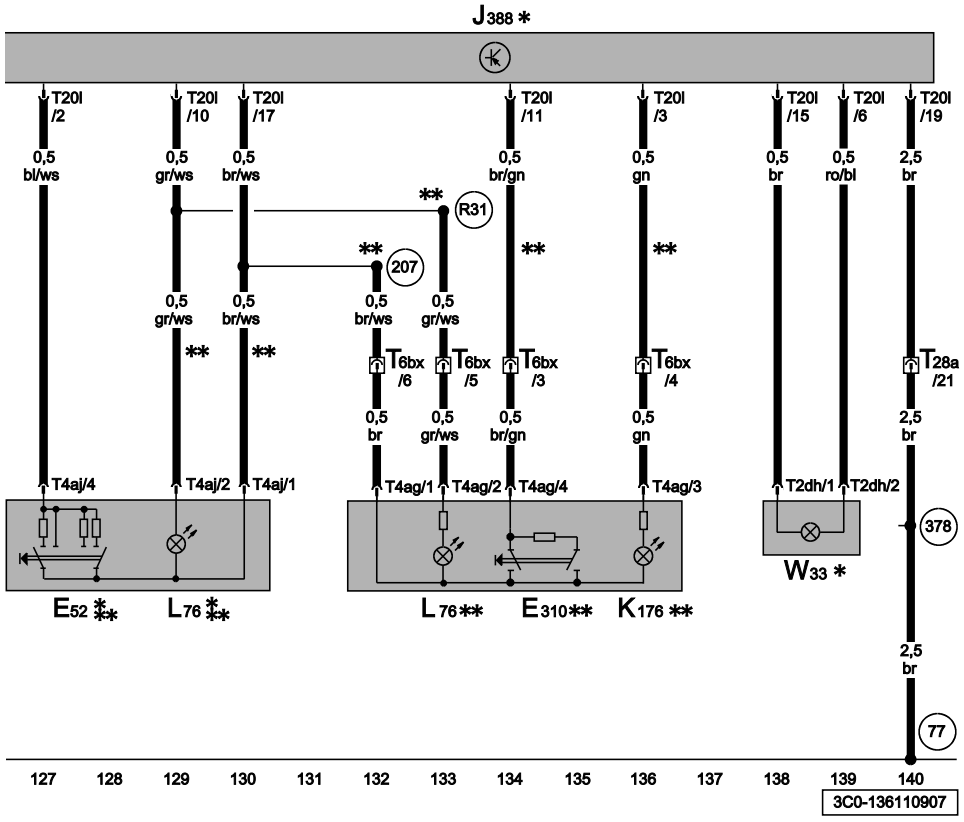
Rear left door control unit, window regulator switch in rear left door, rear left lock unit for central locking, automatic anti-dazzle exterior mirror front passenger side

E52	Rear left window regulator switch, in door
F10	Rear left door contact switch
F222	Rear left central locking lock unit
J387	Front passenger side door control unit
J388	Rear left door control unit
J519	Onboard supply control unit
L76	Button illumination bulb
T4aj	4-pin connector
T8u	8-pin connector
T16l	16-pin connector
T20l	20-pin connector
T28a	28-pin connector, coupling point, left B-pillar
V26	Rear left window regulator motor
V163	Rear left door central locking deadlock function motor
V214	Rear left door central locking motor, lock
Y21	Front passenger side automatic anti-dazzle exterior mirror
*	Only models with rear electric window regulators
**	Only models with entry and start authorisation (Kessy)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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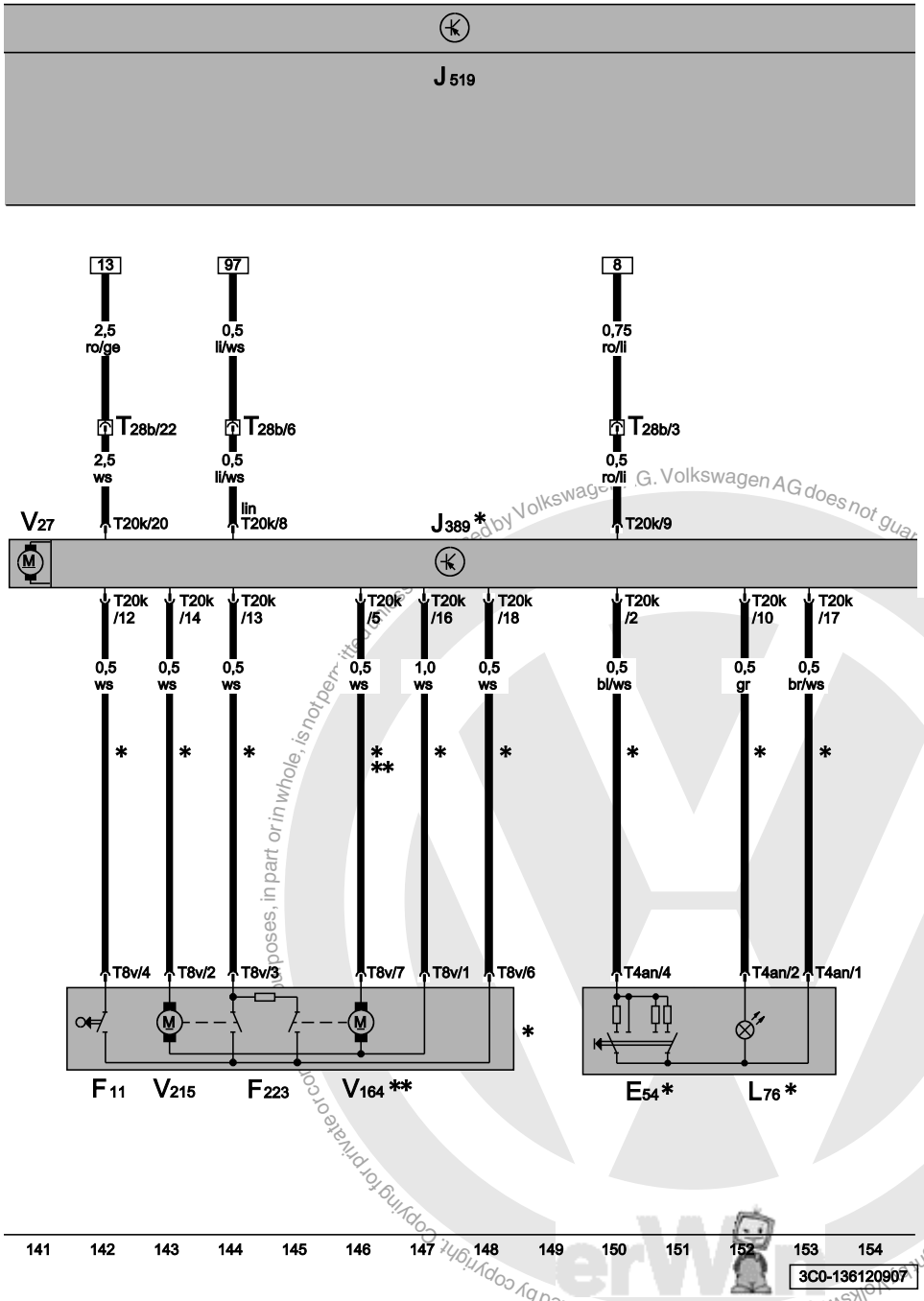


Rear left door control unit, window regulator switch in rear left door, button for interior locking rear left

E52	Rear left window regulator switch, in door
E310	Rear left interior locking button for central locking system
J388	Rear left door control unit
J519	Onboard supply control unit
K176	Rear left interior locking warning lamp
L76	Button illumination bulb
T2dh	2-pin connector
T4ag	4-pin connector
T4aj	4-pin connector
T6bx	6-pin connector, in rear left door
T20l	20-pin connector
T28a	28-pin connector, coupling point, left B-pillar
W33	Rear left entry light
77	Earth point, lower part of left B-pillar
207	Earth connection, in rear left door wiring harness
378	Earth connection 13, in main wiring harness
R31	Connection 1, in rear left door wiring harness
*	Only models with rear electric window regulators
**	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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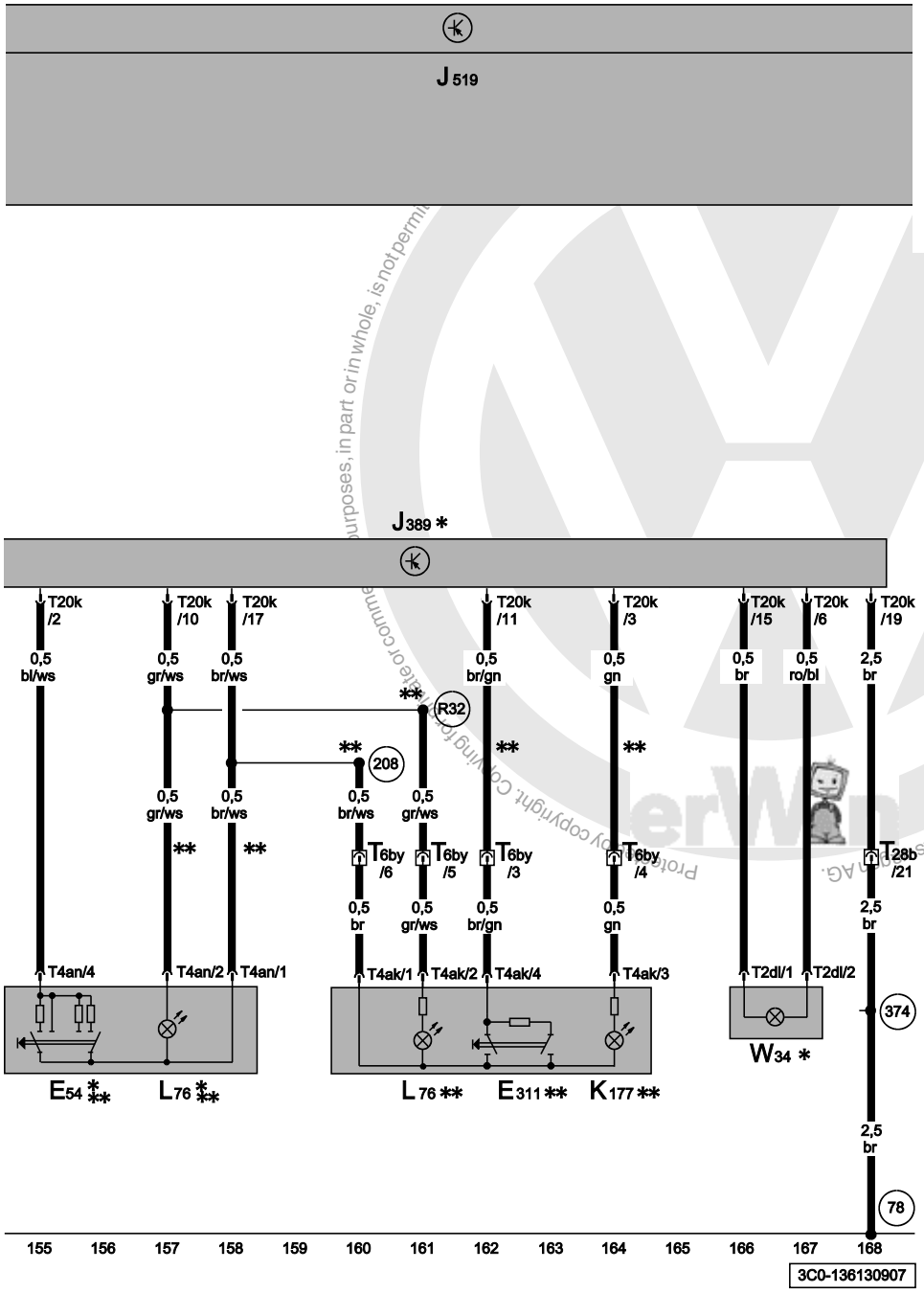


Rear right door control unit, rear right window regulator switch, in door

E54	Rear right window regulator switch, in door
F11	Rear right door contact switch
F223	Rear right central locking lock unit
J389	Rear right door control unit
J519	Onboard supply control unit
L76	Button illumination bulb
T4an	4-pin connector
T8v	8-pin connector
T20k	20-pin connector
T28b	28-pin connector, coupling point, right B-pillar
V27	Rear right window regulator motor
V164	Rear right door central deadlock function locking motor
V215	Rear right door central locking motor, lock
*	Only models with rear electric window regulators
**	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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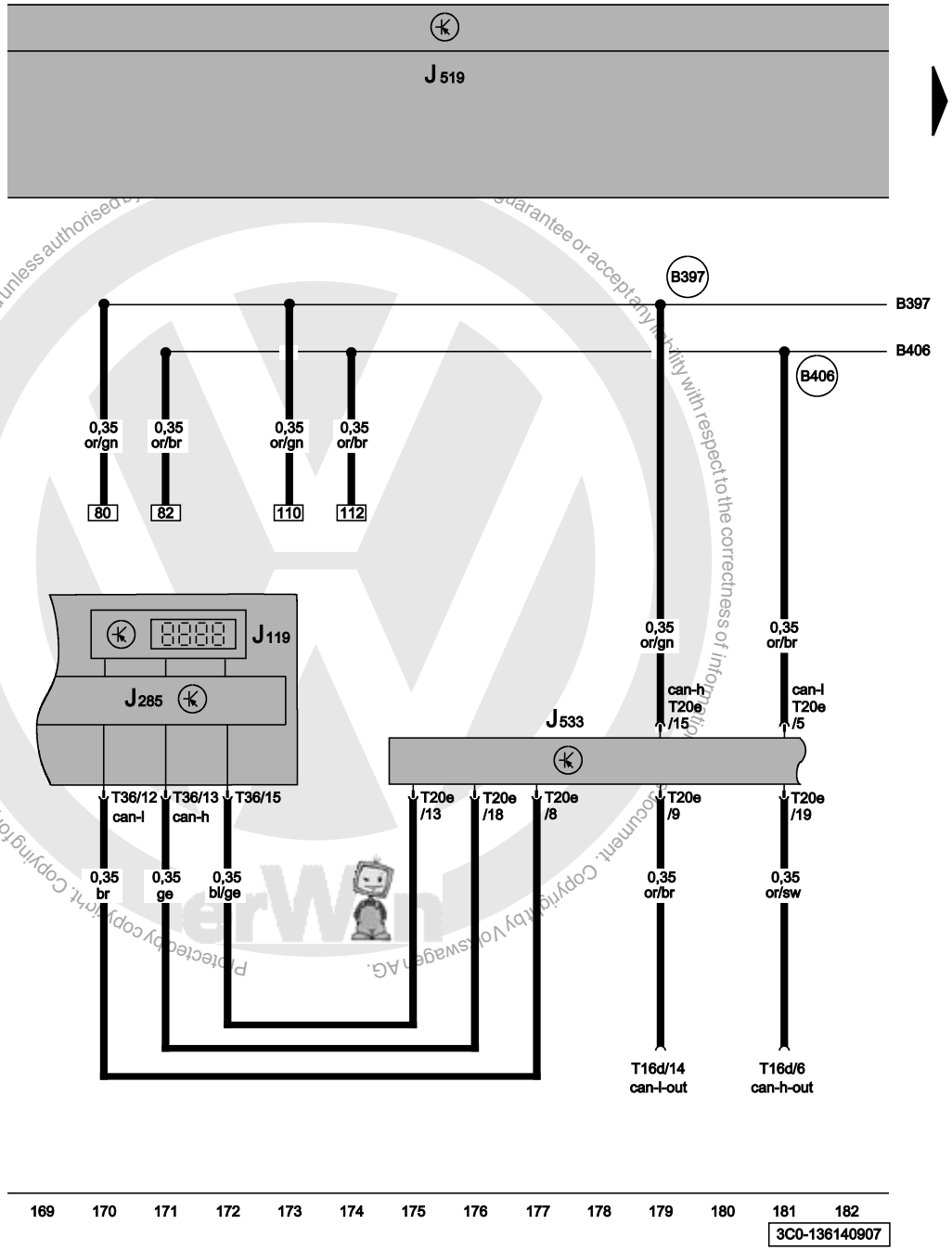


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Rear right door control unit, rear right window regulator switch, in door, rear right interior locking button for central locking system

E54	Rear right window regulator switch, in door
E311	Rear right interior locking button for central locking system
J389	Rear right door control unit
J519	Onboard supply control unit
K177	Rear right interior locking warning lamp
L76	Button illumination bulb
T2dl	2-pin connector
T4ak	4-pin connector
T4an	4-pin connector
T6by	6-pin connector, in rear right door
T20k	20-pin connector
T28b	28-pin connector, coupling point, right B-pillar
W34	Rear right entry light
78	Earth point, lower part of right B-pillar
208	Earth connection, in rear right door wiring harness
374	Earth connection 9, in main wiring harness
R32	Connection 2, in rear right door wiring harness
*	Only models with rear electric window regulators
**	Only American markets

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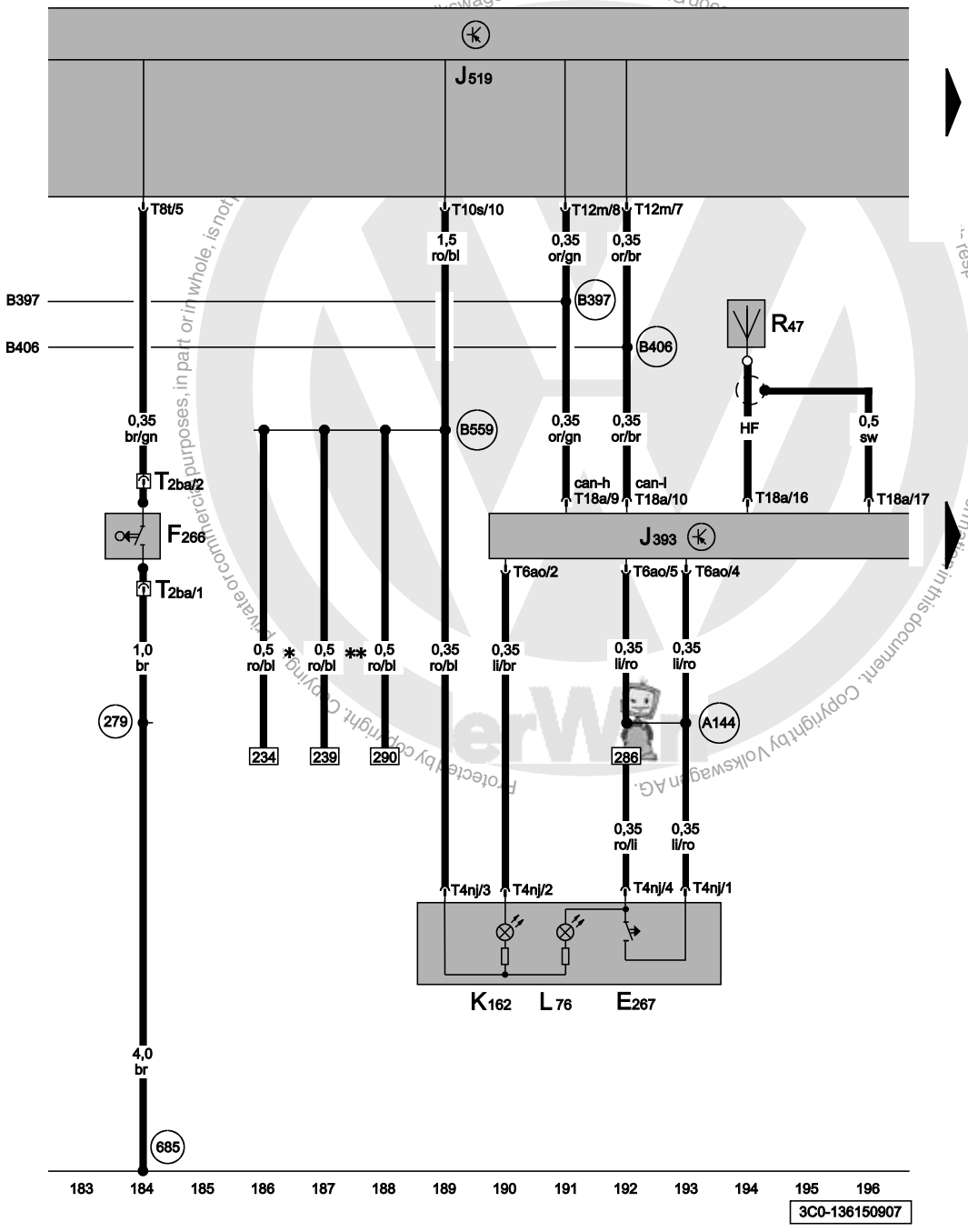


Dash panel insert, multifunction display, data bus diagnostic interface, diagnostic connection

J119	Multifunction display
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T36	36-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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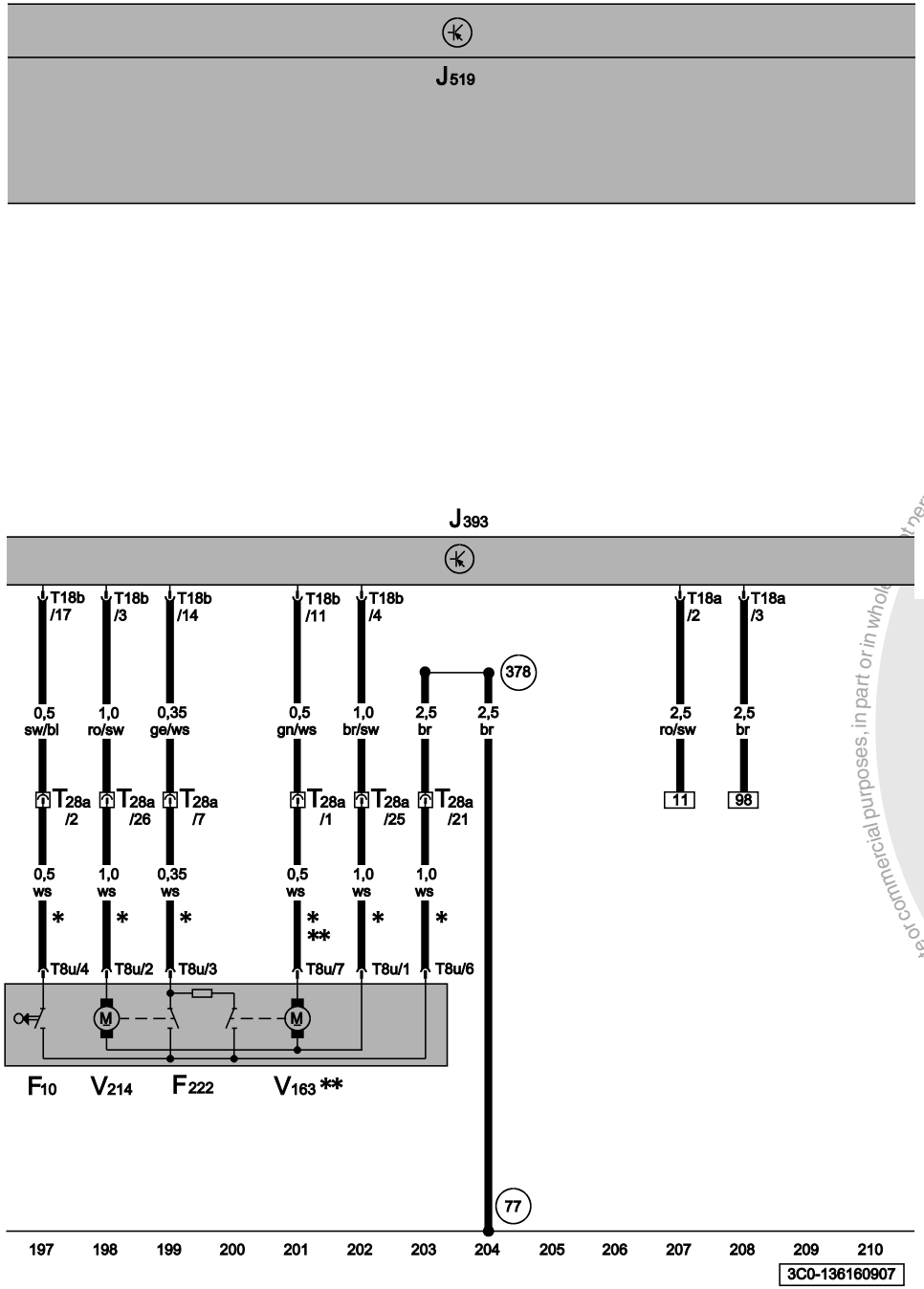


Convenience system central control unit, bonnet contact switch, interior monitor deactivation switch

E267	Interior monitoring deactivation switch
F266	Bonnet contact switch
J393	Convenience system central control unit
J519	Onboard supply control unit
K162	Interior monitoring deactivation warning lamp
L76	Button illumination bulb
R47	Aerial for central locking and anti-theft alarm system, lower left A-pillar
T2ba	2-pin connector, black, behind right headlight
T4nj	4-pin connector
T6ao	6-pin connector
T8t	8-pin connector, black
T10s	10-pin connector, black
T12m	12-pin connector, black
T18a	18-pin connector
279	Earth connection 5, in interior wiring harness
685	Earth point 1 at front of right longitudinal member
A144	Connection (interior monitoring) in dash panel wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B559	Connection 1 (30g), in main wiring harness
*	Saloon models
**	Variant models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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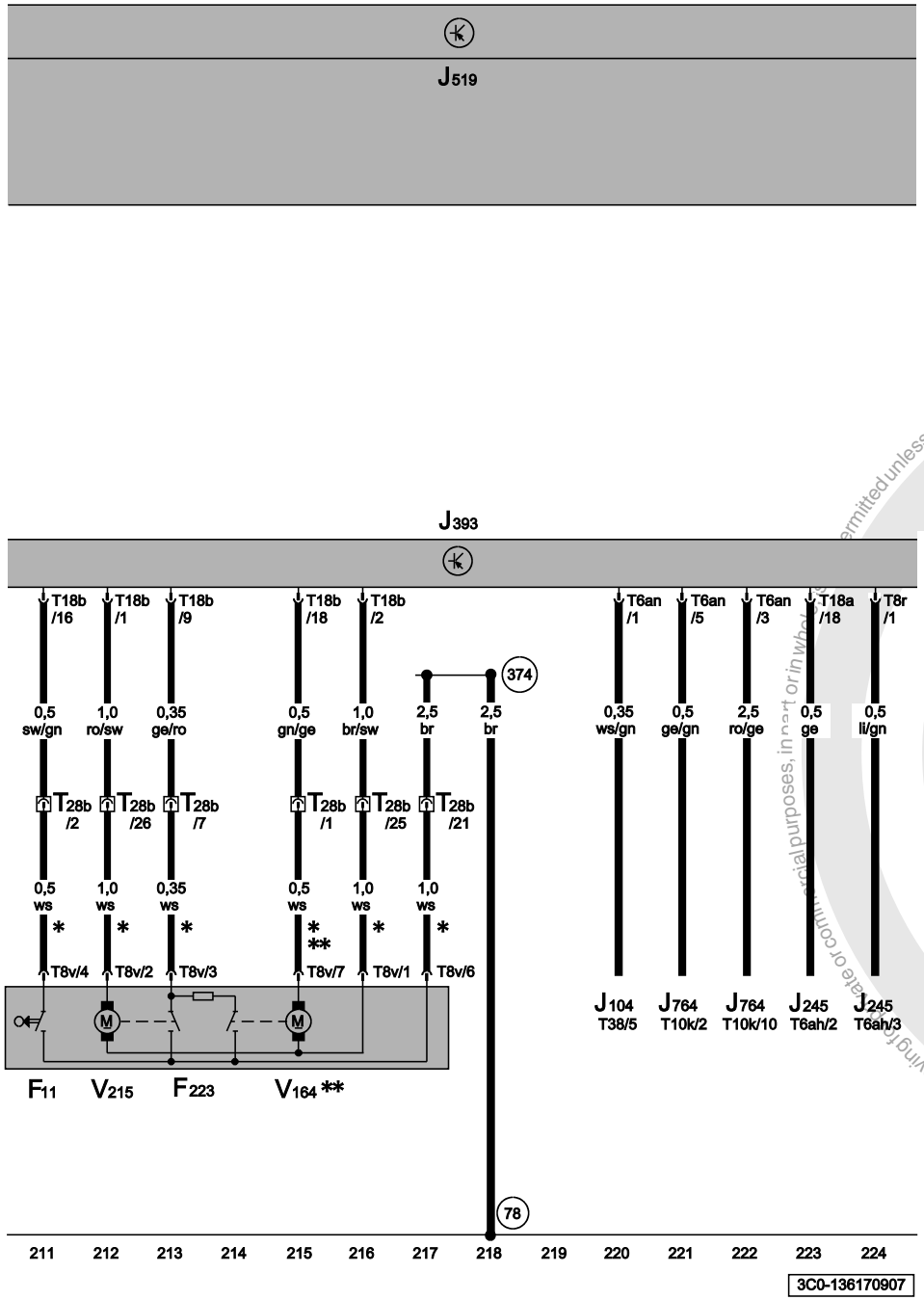


Convenience system central control unit, rear left door contact switch, rear left central locking lock unit

F10	Rear left door contact switch
F222	Rear left central locking lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T8u	8-pin connector
T18a	18-pin connector
T18b	18-pin connector
T28a	28-pin connector, coupling point, left B-pillar
V163	Rear left door central locking deadlock function motor
V214	Rear left door central locking motor, lock
77	Earth point, lower part of left B-pillar
378	Earth connection 13, in main wiring harness
*	Only models with no rear electric window regulator
**	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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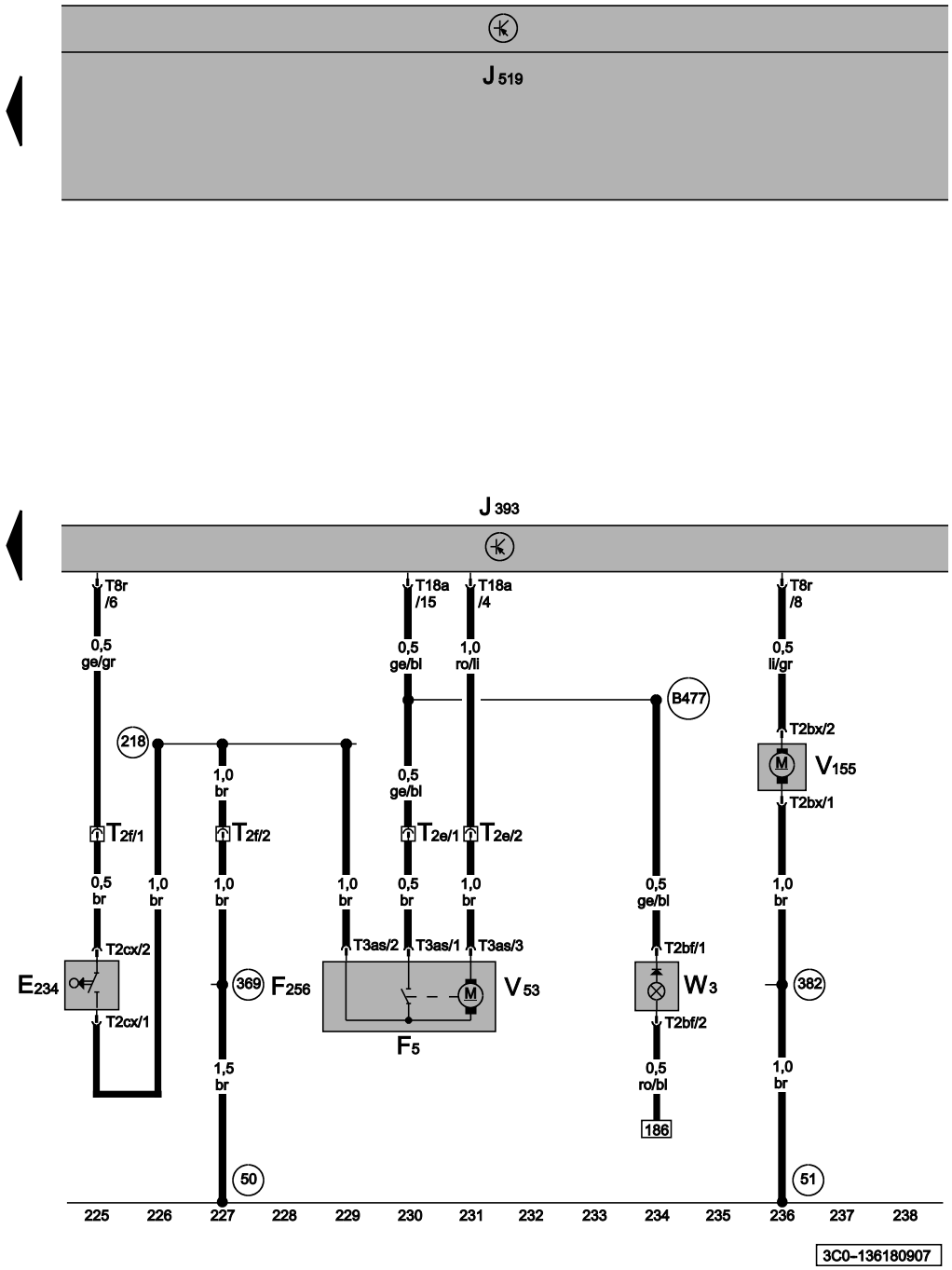


Convenience system central control unit, central locking lock unit

F11	Rear right door contact switch
F223	Rear right central locking lock unit
J104	ABS control unit
J245	Sliding sunroof adjustment control unit
J393	Convenience system central control unit
J245	Sliding sunroof adjustment control unit
J519	Onboard supply control unit
J764	Electronic steering column lock control unit
T6ah	6-pin connector
T6an	6-pin connector
T8r	8-pin connector
T8v	8-pin connector
T10k	10-pin connector
T18a	18-pin connector
T18b	18-pin connector
T28b	28-pin connector, coupling point, right B-pillar
T38	38-pin connector
V164	Rear right door central deadlock function locking motor
V215	Rear right door central locking motor, lock
78	Earth point, lower part of right B-pillar
374	Earth connection 9, in main wiring harness
*	Only models with no rear electric window regulator
**	Only American markets

ws	=	white
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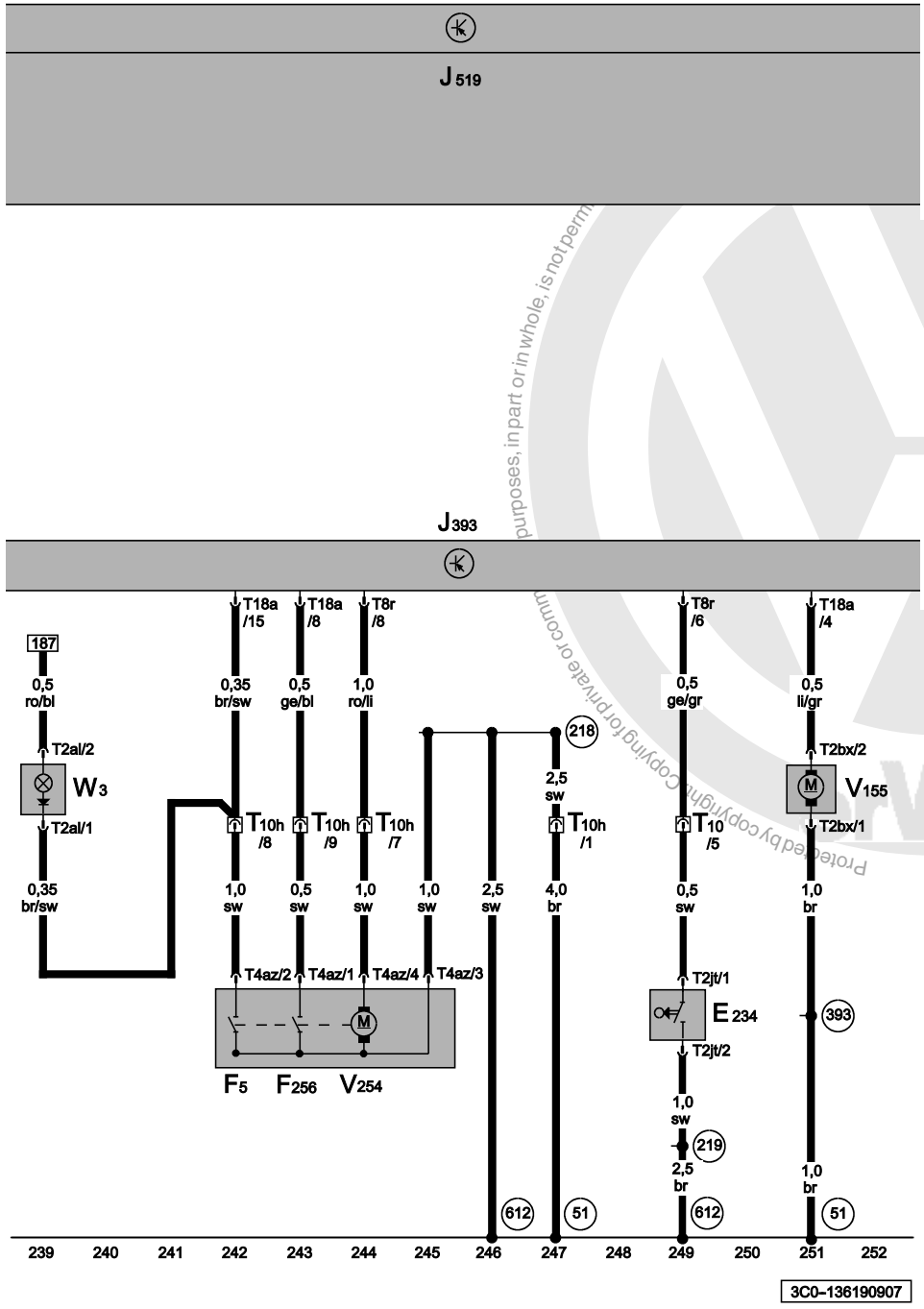


Rear lid handle release button, central locking motor in rear lid (saloon), locking motor for tank filler flap (saloon), luggage compartment light (saloon)

E234	Release button in rear lid handle
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2bf	2-pin connector
T2e	2-pin connector, coupling point, rear lid (saloon)
T2f	2-pin connector, coupling point, rear lid (saloon)
T2bx	2-pin connector
T2cx	2-pin connector
T3as	3-pin connector, rear lid lock (saloon)
T8r	8-pin connector
T18a	18-pin connector
V53	Rear lid central locking motor
V155	Tank filler flap locking motor
W3	Luggage compartment light
50	Earth point, on left in luggage compartment
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
382	Earth connection 17, in main wiring harness
B477	Connection 13, in main wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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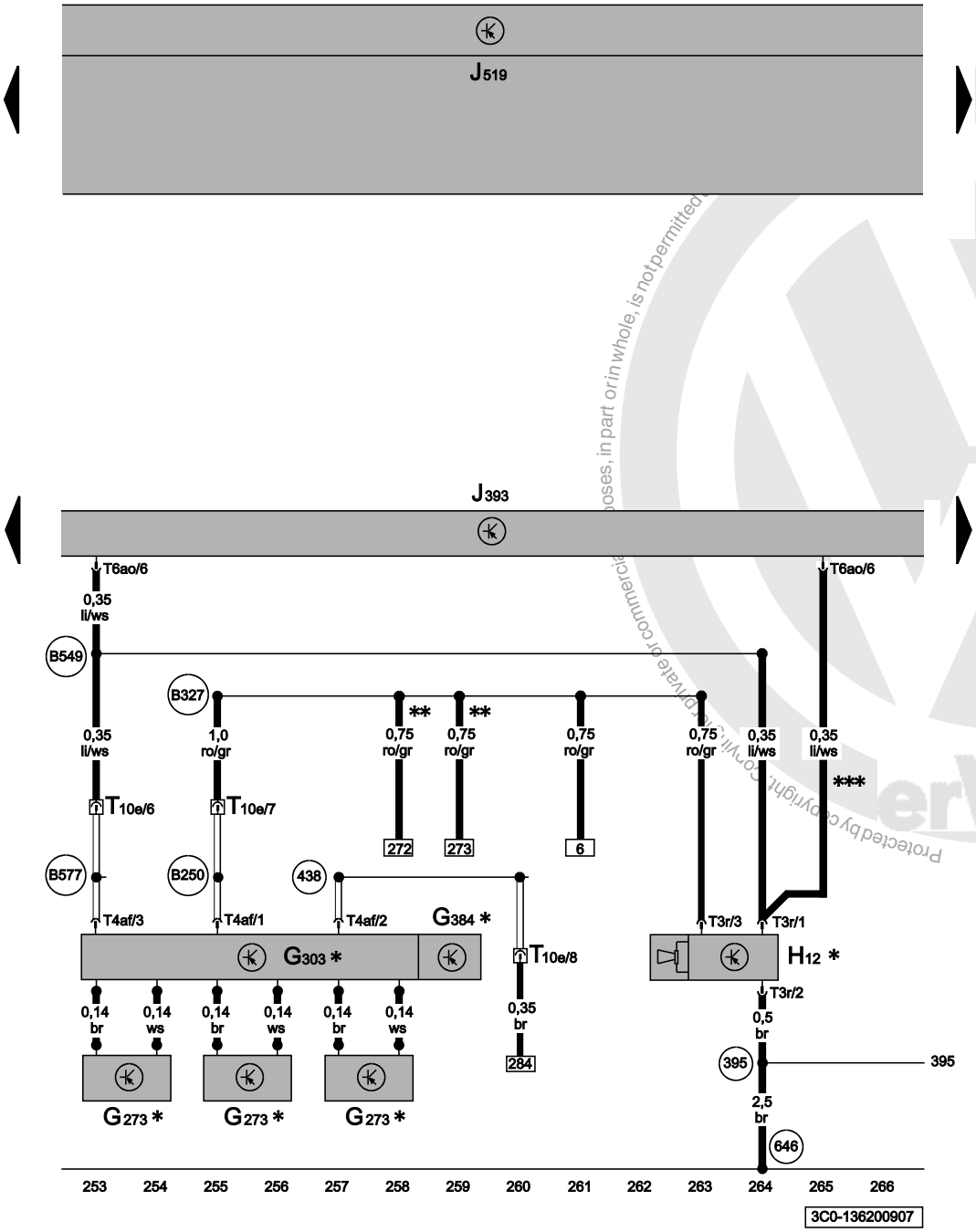


Release button in rear lid handle, lock unit for rear lid (Variant), motor for electric rear lid opening (Variant), luggage compartment light (Variant), locking motor for tank filler flap (Variant)

E234	Release button in rear lid handle
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2al	2-pin connector
T2bx	2-pin connector
T2jt	2-pin connector
T4az	4-pin connector, rear lid lock (Variant)
T8r	8-pin connector
T10	10-pin connector
T10h	10-pin connector, coupling point, rear lid (Variant)
T18a	18-pin connector
V155	Tank filler flap locking motor
V254	Rear lid electric release motor
W3	Luggage compartment light
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
219	Earth connection 2, in rear lid wiring harness
393	Earth connection 28, in main wiring harness
612	Earth point, centre on rear lid

ws	=	white
sw	=	black
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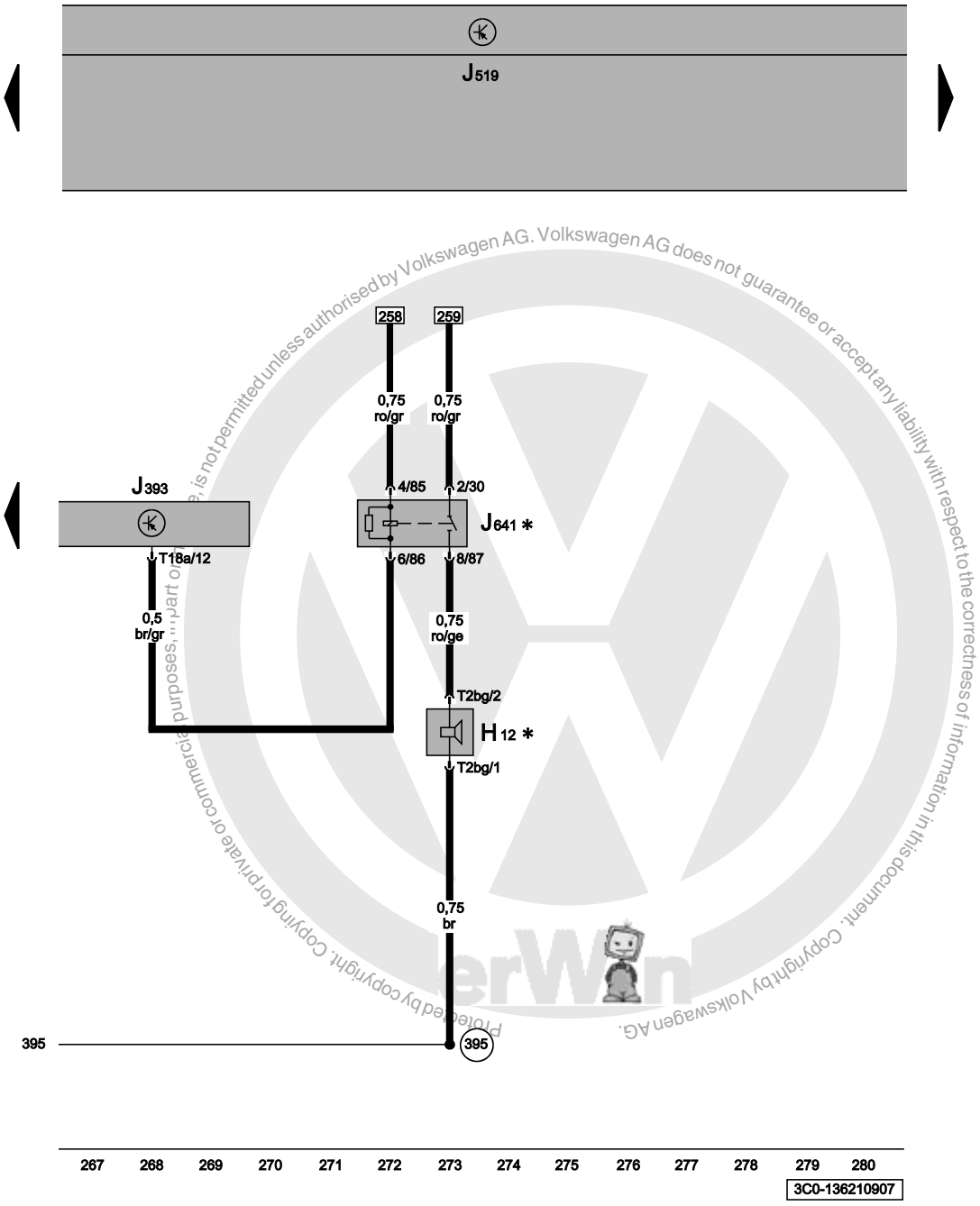
Convenience system central control unit, vehicle inclination sender, alarm horn, interior monitor send and receive module 1

G273	Interior monitoring sensor
G303	Interior monitor send and receive module 1
G384	Vehicle inclination sender
H12	Alarm horn
J393	Convenience system central control unit
J519	Onboard supply control unit
T3r	3-pin connector
T4af	4-pin connector
T6ao	6-pin connector
T10e	10-pin connector, blue, coupling point for roof wiring harness
395	Earth connection 30, in main wiring harness
438	Earth connection 3, in roof wiring harness
646	Earth point 2, on bulkhead
B250	Positive connection, in roof wiring harness
B327	Connection 13 (30a), in main wiring harness
B549	Connection 2 (LIN bus), in main wiring harness
B577	LIN bus connection, in roof wiring harness
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/rahmen.png" content-width="20pt" scaling="uniform"/>	Flexible printed circuit

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

*	Not for American markets
**	Only American markets
***	Only models with no interior monitoring and no tow-away protection

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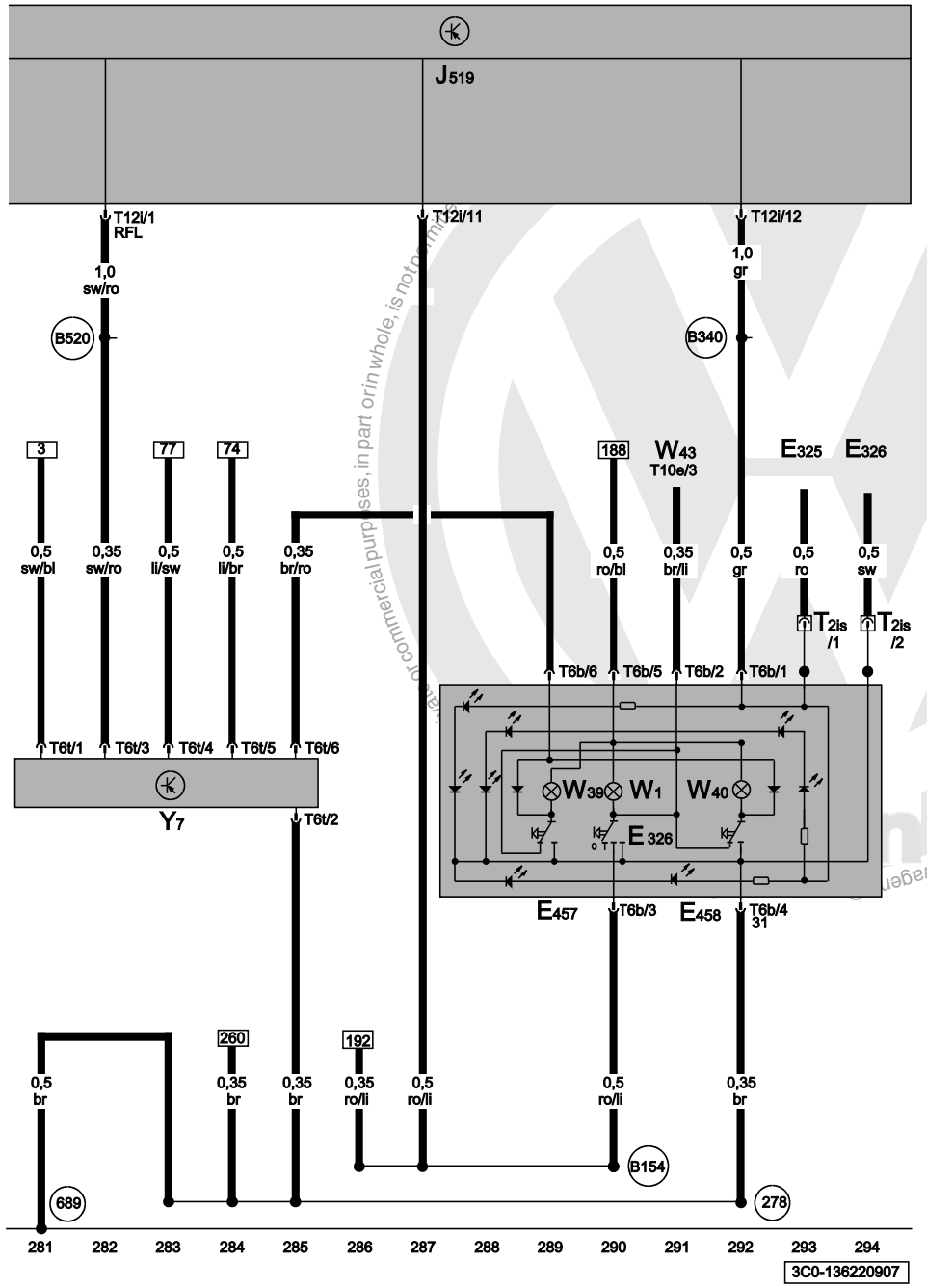


Alarm horn relay, alarm horn

H12	Alarm horn
J393	Convenience system central control unit
J519	Onboard supply control unit
J641	Alarm horn relay, on relay carrier 2 under left dash panel (53)
T2bg	2-pin connector
T18a	18-pin connector
(395)	Earth connection 30, in main wiring harness
*	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Sliding sunroof control unit, sunroof button, automatic anti-dazzle interior mirror

E325	Sunroof button
E326	Front interior light button
E457	Driver side reading light button
E458	Front passenger side reading light button
J519	Onboard supply control unit
T2is	2-pin connector, black
T6b	6-pin connector
T6t	6-pin connector
T10e	10-pin connector
T12i	12-pin connector, black
W1	Front interior light
W39	Left centre reading light
W40	Right centre reading light
W43	Rear interior light
Y7	Automatic anti-dazzle interior mirror
278	Earth connection 4, in interior wiring harness
689	Earth point, front centre of roof
B154	Connection 1 (DCt), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B520	Connection (RL), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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Gas discharge headlights (bi-xenon)

⇒ **Cornering light, dynamic**
⇒ **Cornering light, static**
⇒ **Headlight range, dynamic**

From July 2007

Notes:

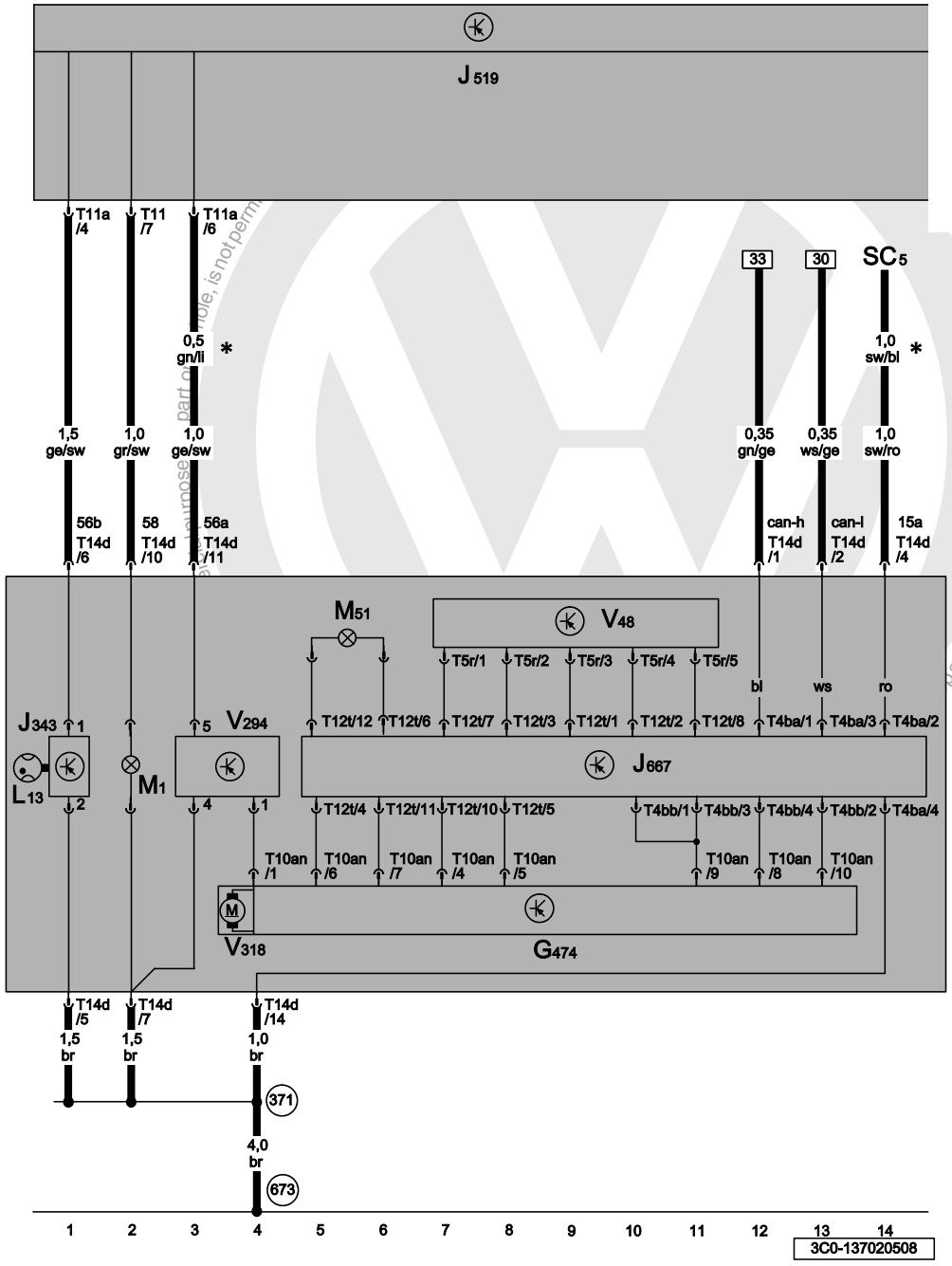
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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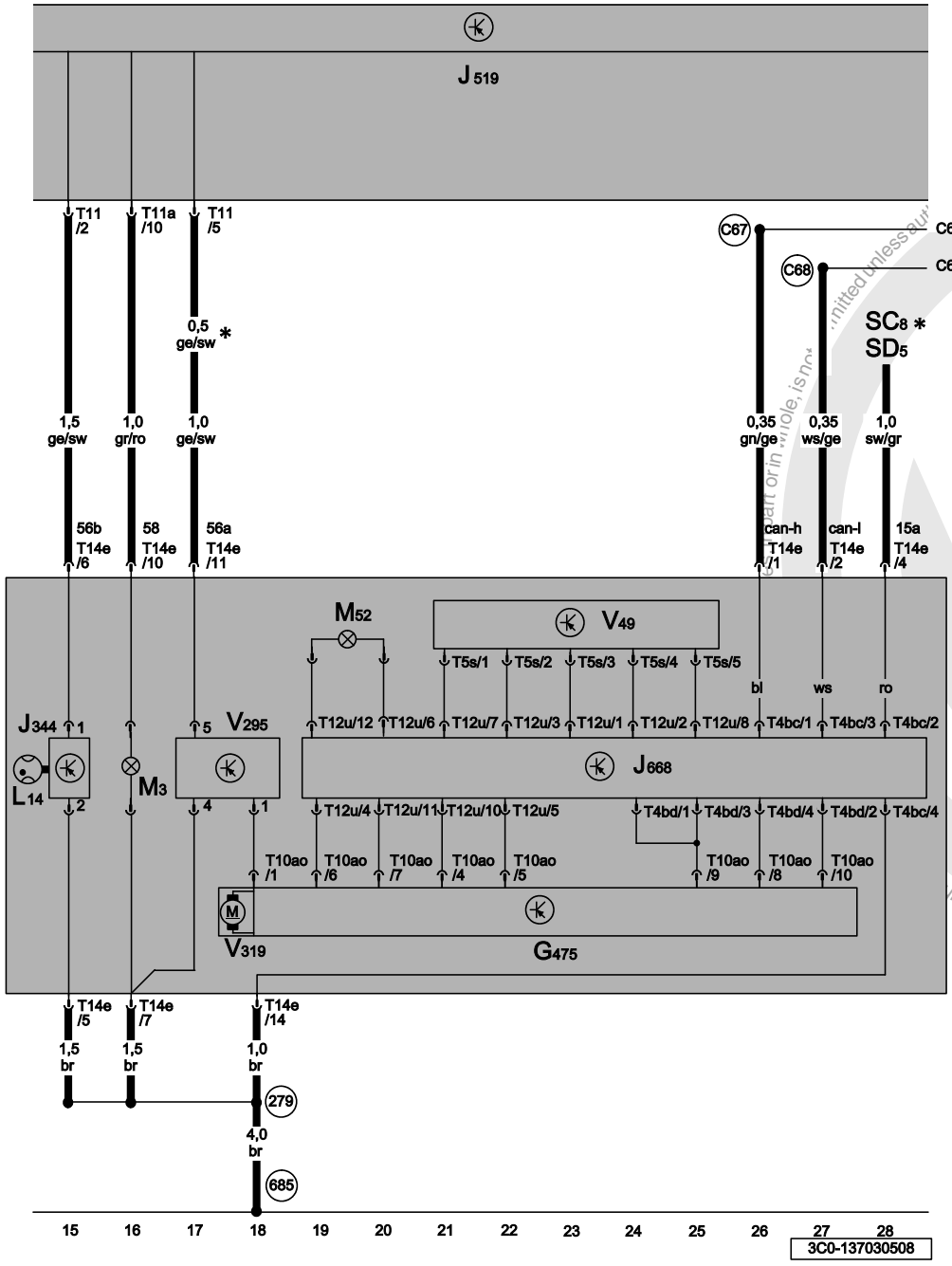


Left headlight, left headlight power output module, left gas discharge bulb, left dynamic cornering light control motor

G474	Left swivel module position sensor
J343	Left gas discharge bulb control unit
J519	Onboard supply control unit
J667	Power output module for left headlight
L13	Left gas discharge (xenon) bulb
M1	Left side light bulb
M51	Left static cornering light
SC5	Fuse 5 on fuse holder C
T4ba	4-pin connector, in headlight
T4bb	4-pin connector, in headlight
T5r	5-pin connector, in headlight
T10an	10-pin connector
T11	11-pin connector, black
T11a	11-pin connector, brown
T12t	12-pin connector, in headlight
T14d	14-pin connector
V48	Left headlight range control motor
V294	Left dip beam screen motor
V318	Left dynamic cornering light control motor
371	Earth connection 6, in main wiring harness
673	Earth point 3, on front of left longitudinal member
*	Applicable from May 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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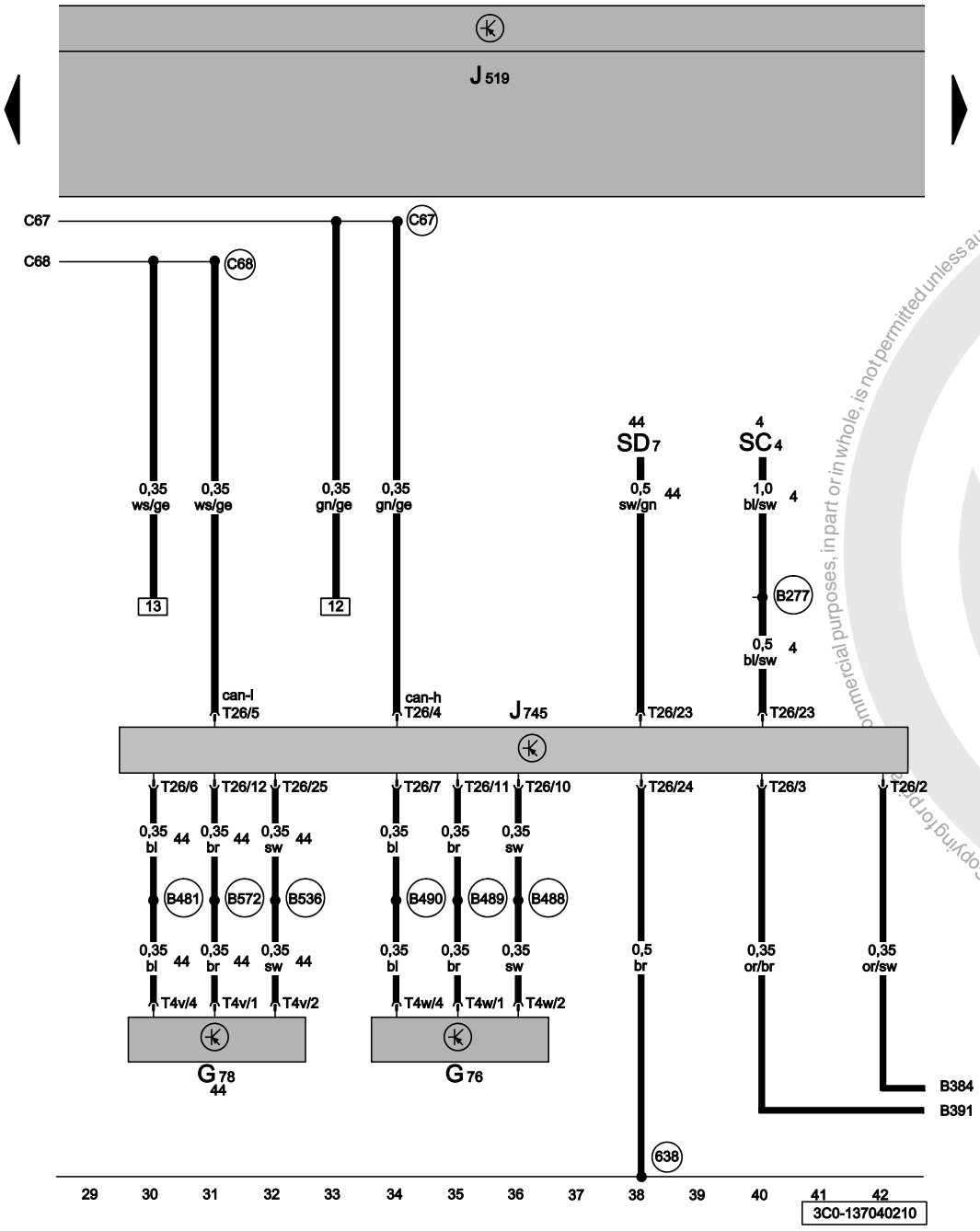


Right headlight, right dynamic cornering light control motor, right gas discharge bulb, right dynamic cornering light control motor

G475	Right swivel module position sensor
J344	Right gas discharge bulb control unit
J519	Onboard supply control unit
J668	Power output module for right headlight
L14	Right gas discharge (xenon) bulb
M3	Right side light bulb
M52	Right static cornering light
SC8	Fuse 8 on fuse holder C
SD5	Fuse 5 on fuse holder D
T4bc	4-pin connector, in headlight
T4bd	4-pin connector, in headlight
T5s	5-pin connector, in headlight
T10ao	10-pin connector
T11	11-pin connector, black
T11a	11-pin connector, brown
T12u	12-pin connector, in headlight
T14e	14-pin connector
V49	Right headlight range control motor
V295	Right dip beam screen motor
V319	Right dynamic cornering light control motor
279	Earth connection 5, in interior wiring harness
685	Earth point 1 on front of right longitudinal member
C67	Connection (CAN bus, high), in headlight wiring harness
C68	Connection (CAN bus, low), in headlight wiring harness
*	Applicable from May 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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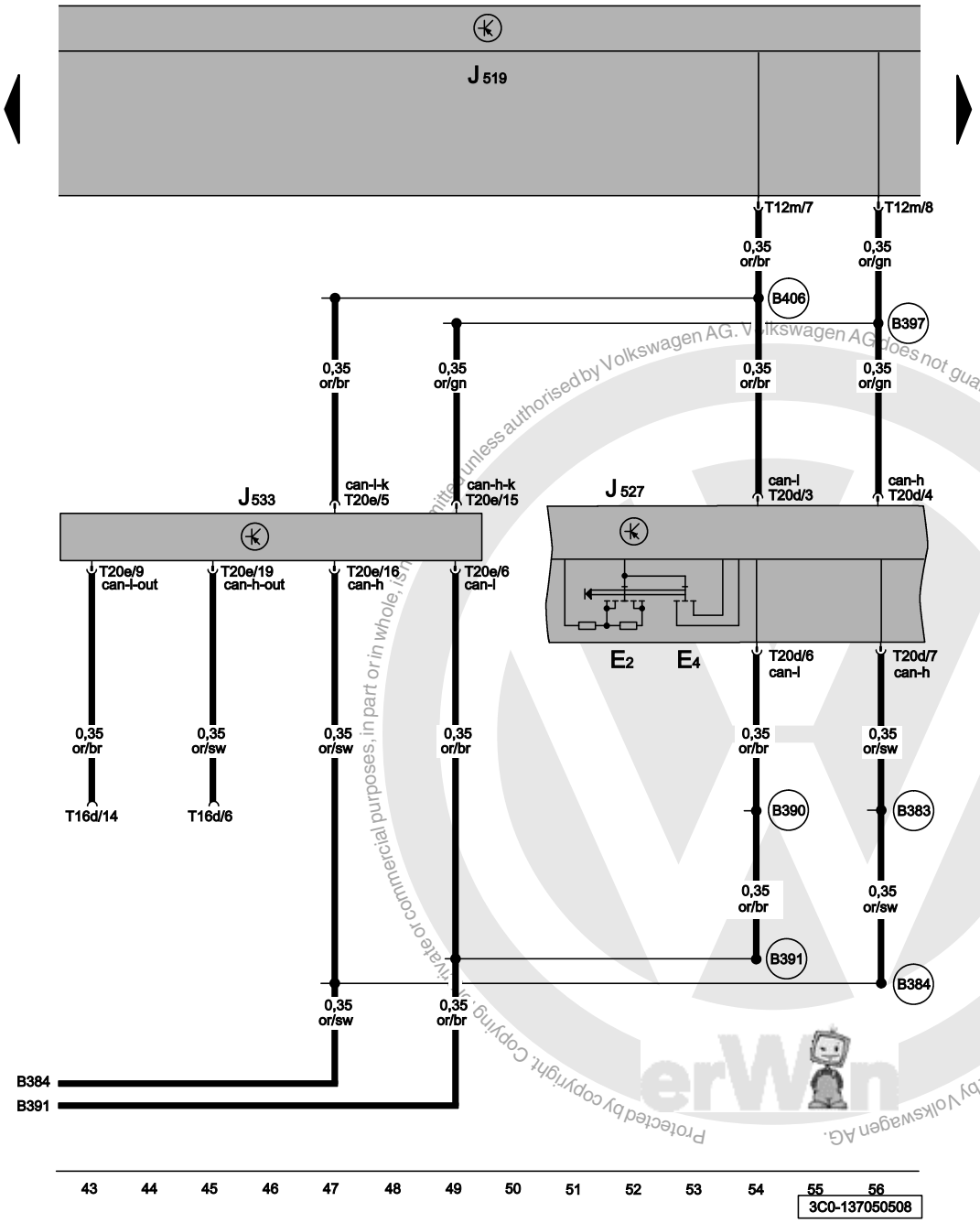


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Control unit for cornering light and headlight range control, front and rear left vehicle level senders

G76	Rear left vehicle level sender
G78	Front left vehicle level sender
J519	Onboard supply control unit
J745	Control unit for cornering light and headlight range control, behind glove compartment
SC4	Fuse 4 on fuse holder C
SD7	Fuse 7 on fuse holder D
T4v	4-pin connector
T4w	4-pin connector
T26	26-pin connector
638	Earth point, on right A-pillar
B277	Connection 1 (15a), in main wiring harness
B481	Connection 17, in main wiring harness
B488	Connection 24, in main wiring harness
B489	Connection 25, in main wiring harness
B490	Connection 26, in main wiring harness
B536	Connection 27, in main wiring harness
B572	Connection 39, in main wiring harness
C67	Connection (CAN bus, high), in headlight wiring harness
C68	Connection (CAN bus, low), in headlight wiring harness
*	Applicable from May 2008
**	Applicable to November 2007

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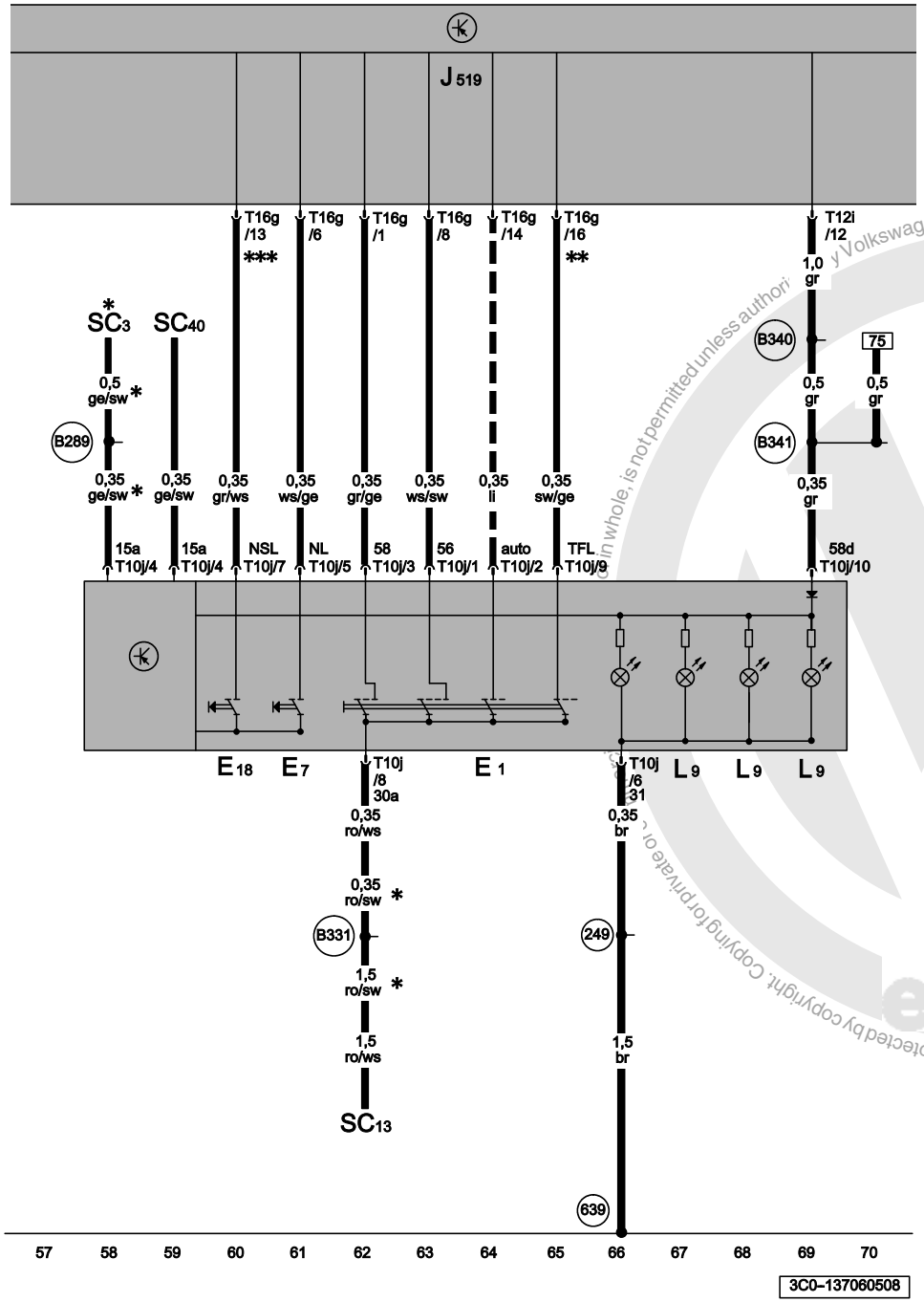


ws = white
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gr = grey
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rs = pink

Headlight dipper and flasher switch, steering column electronics control unit, data bus diagnostic interface, turn signal switch

E2	Turn signal switch
E4	Headlight dipper and flasher switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
T12m	12-pin connector, black
T16d	16-pin connector, self-diagnosis connection
T20d	20-pin connector
T20e	20-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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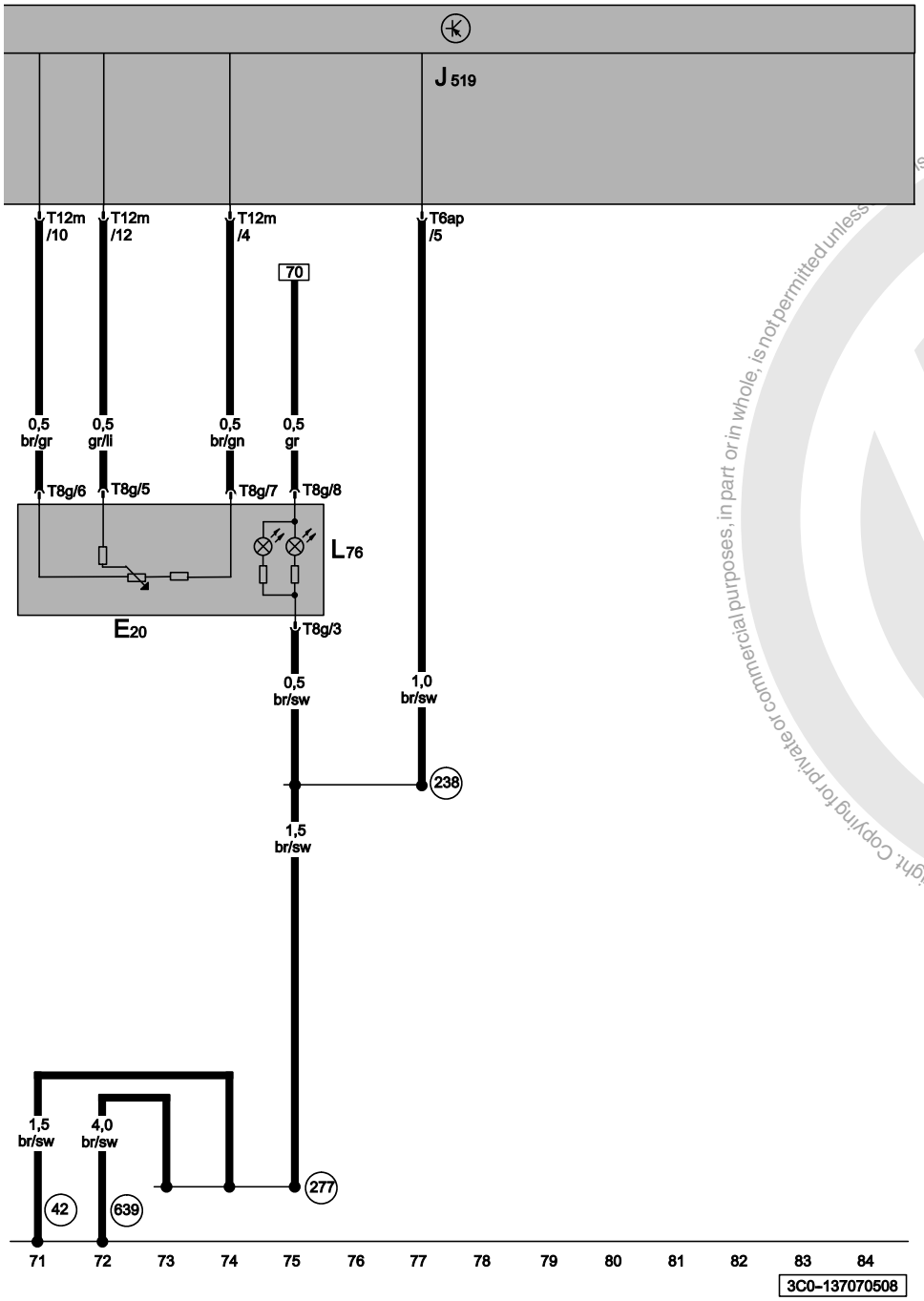


Light switch, fog light switch, light switch illumination bulb, button for hazard warning lights

E1	Light switch
E7	Fog light switch
E18	Rear fog light switch
J519	Onboard supply control unit
L9	Light switch illumination bulb
SC3	Fuse 3 on fuse holder C
SC13	Fuse 13 on fuse holder C
SC40	Fuse 40 on fuse holder C
T10j	10-pin connector, black
T12i	12-pin connector, black
T16g	16-pin connector, black
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B289	Connection 13 (15a), in main wiring harness
B331	Connection 17 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Applicable from May 2008
**	Only models with daytime running lights
***	Depends on equipment for American markets
---	Only models with driving lights assist

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Switches and instruments illumination regulator, button illumination bulb

E20	Switch and instrument illumination regulator
J519	Onboard supply control unit
L76	Button illumination bulb
T6ap	6-pin connector, black
T8g	8-pin connector
T12m	12-pin connector, black
42	Earth point, next to steering column
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
639	Earth point, left A-pillar

ws = white
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ro = red
br = brown
gn = green
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li = purple
ge = yellow
or = orange
rs = pink

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Parking aid (PDC) with park assist steering

From November 2007

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

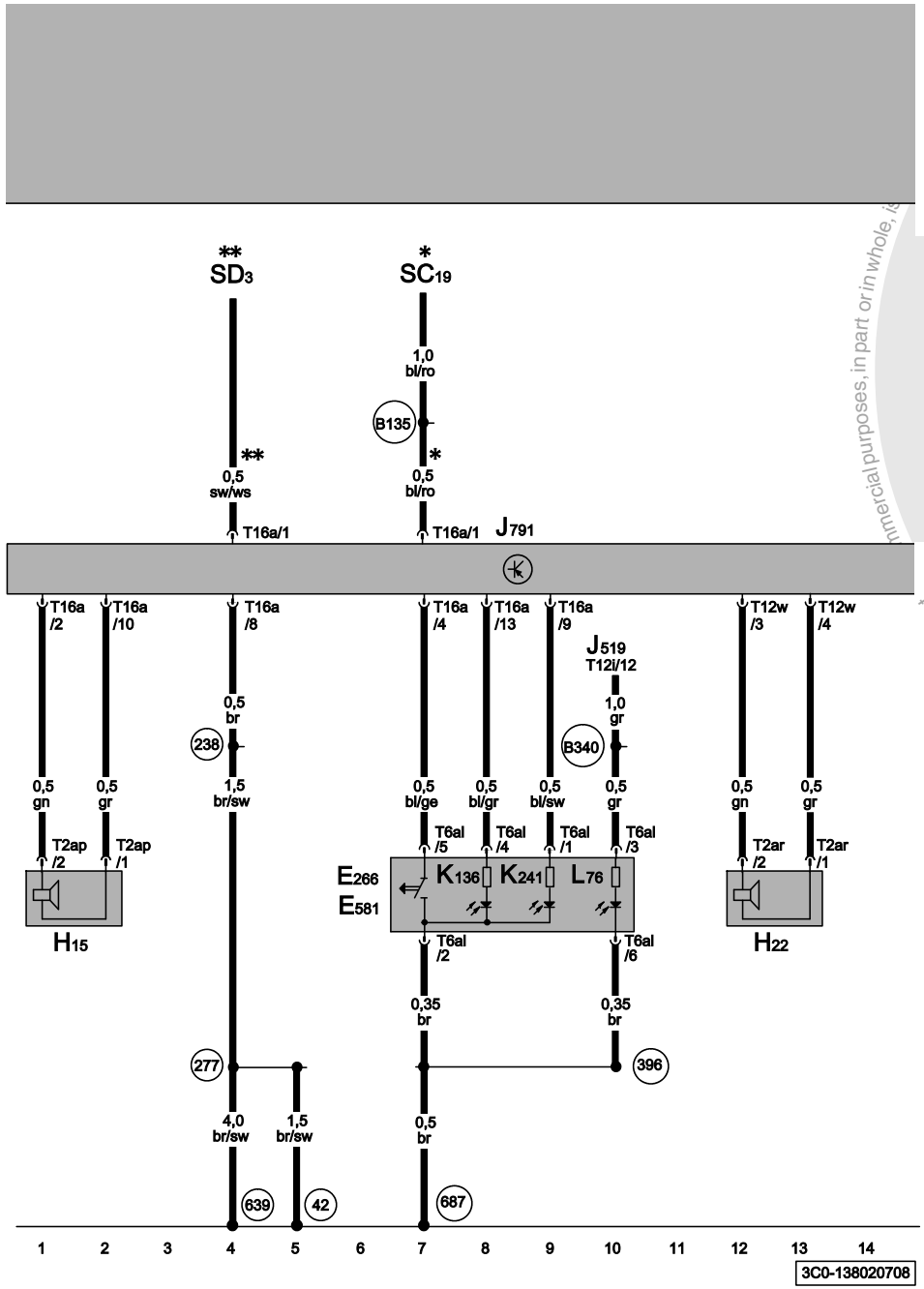
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Parking aid button, park assist steering button, parking aid warning buzzer, park assist steering control unit

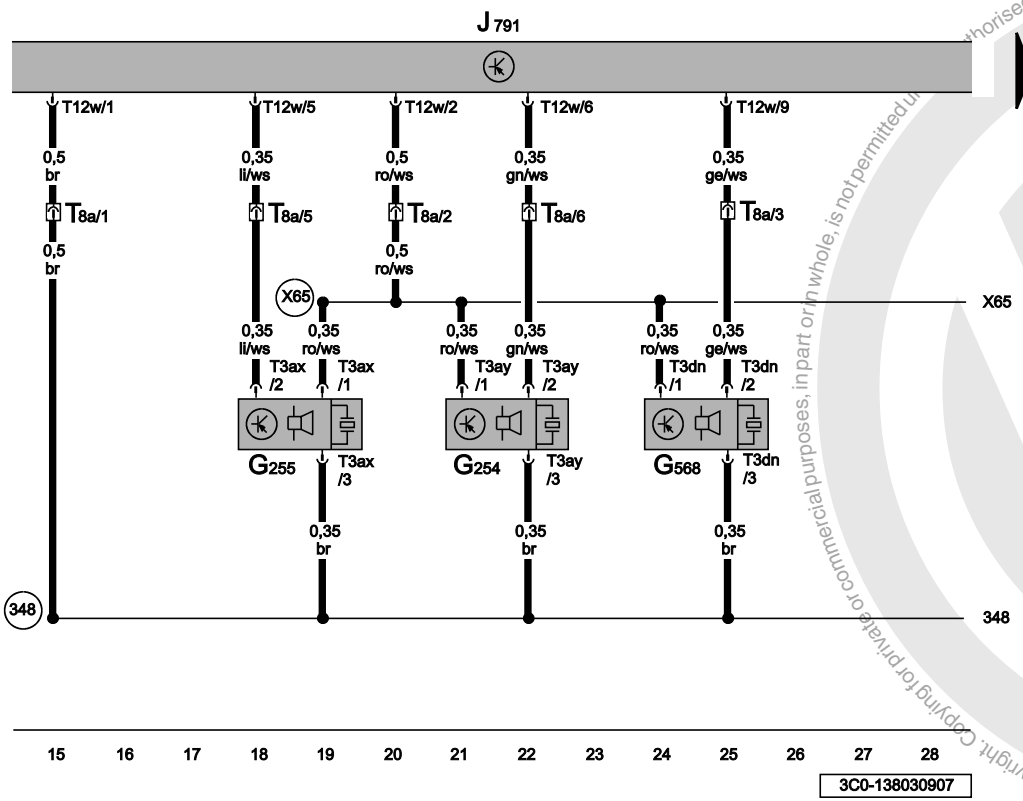
E266	Parking aid button
E581	Park assist steering button
H15	Rear parking aid warning buzzer
H22	Front parking aid warning buzzer
J519	Onboard supply control unit
J791	Park assist steering control unit, on left next to dash panel insert
K136	Parking aid warning lamp
K241	Warning light for park assist steering
L76	Button illumination bulb
SC19	Fuse 19 on fuse holder C
SD3	Fuse 3 on fuse holder D
T2ap	2-pin connector
T2ar	2-pin connector
T6al	6-pin connector
T12i	12-pin connector, black
T12w	12-pin connector, brown
T16a	16-pin connector, brown
42	Earth point, next to steering column
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
396	Earth connection 31, in main wiring harness
639	Earth point, left A-pillar
687	Earth point 1, on centre tunnel
B135	Connection 1 (15a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
*	Applicable from May 2008
**	Applicable to April 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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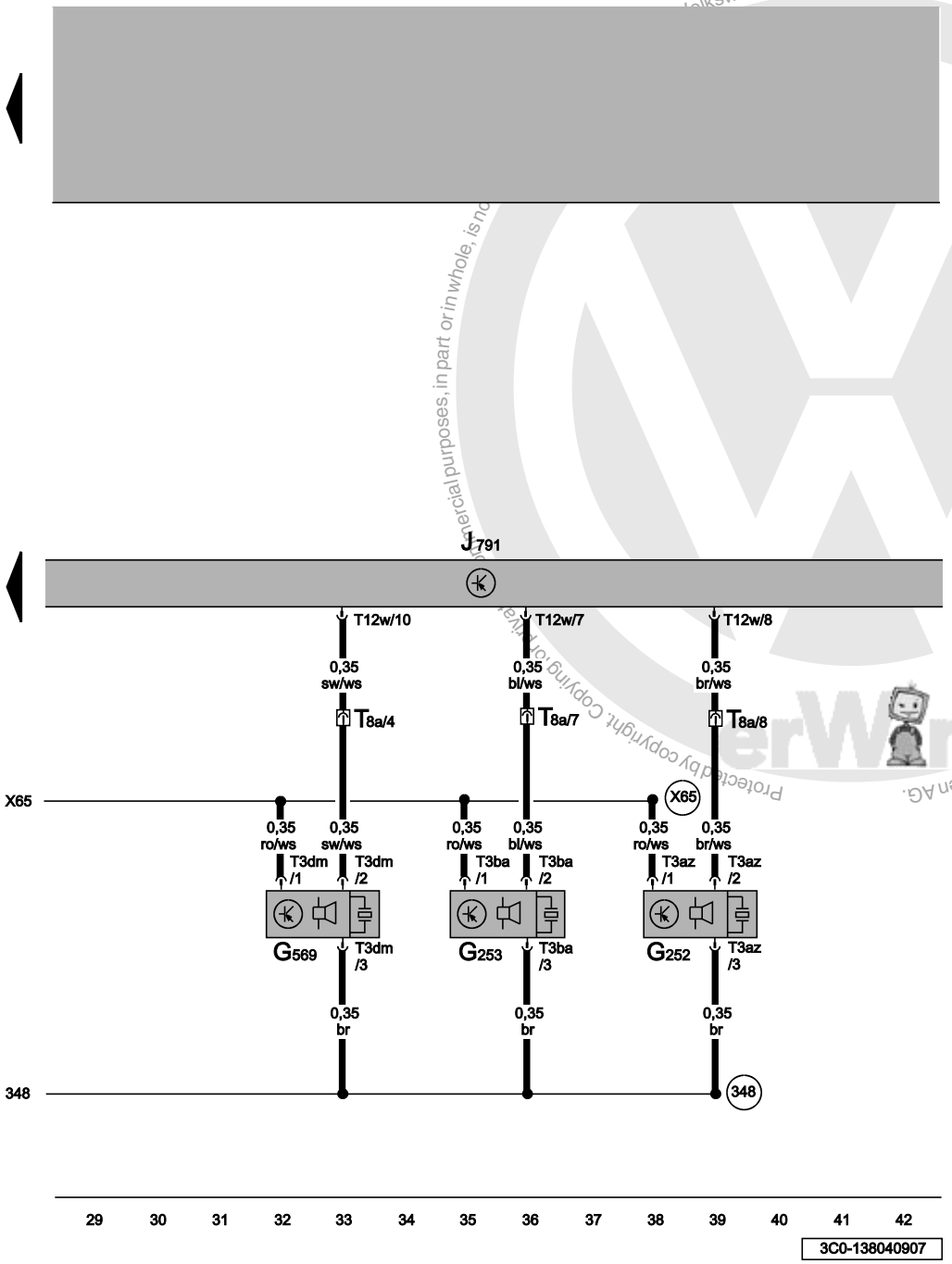
Park assist steering steering steering control unit, front parking aid sender, front left park assist steering sender

G254	Front centre left parking aid sender
G255	Front left parking aid sender
G568	Front left sender for park assist steering on left side of vehicle
J791	Park assist steering control unit, on left next to dash panel insert
T8a	8-pin connector, black, on front left longitudinal member
T3ax	3-pin connector
T3ay	3-pin connector
T3dn	3-pin connector
T12w	12-pin connector, brown
348	Earth connection (parking aid), in front bumper wiring harness
X65	Connection (parking aid), in front bumper wiring harness



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gn = green
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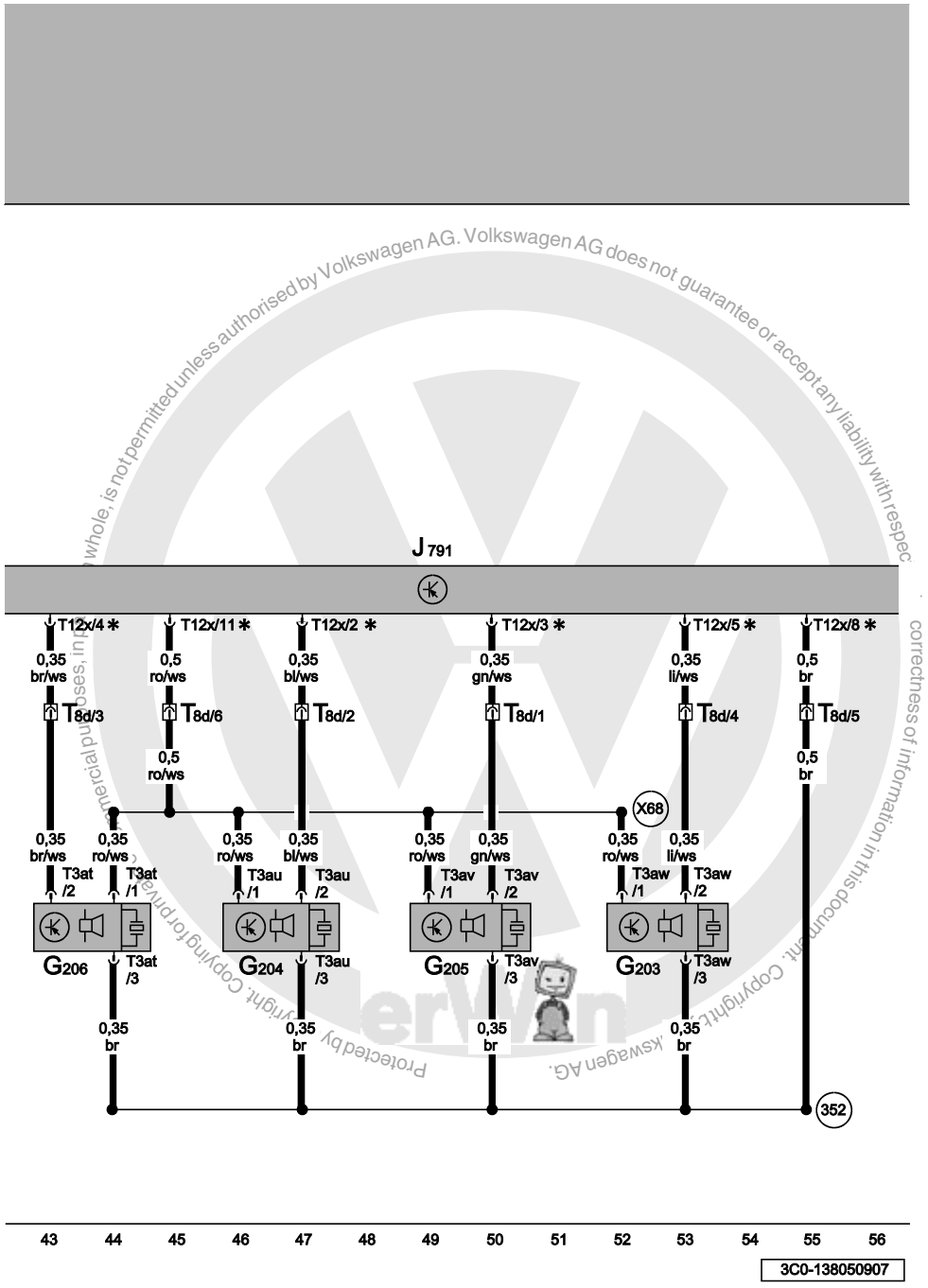


Park assist steering steering control unit, front parking aid sender, front right park assist steering sender

G252	Front right parking aid sender
G253	Front centre right parking aid sender
G569	Front right sender for park assist steering on right side of vehicle
J791	Park assist steering control unit, on left next to dash panel insert
T3az	3-pin connector
T3ba	3-pin connector
T3dm	3-pin connector
T8a	8-pin connector, black, on front left longitudinal member
T12w	12-pin connector, brown
348	Earth connection (parking aid), in front bumper wiring harness
X65	Connection (parking aid), in front bumper wiring harness

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Park assist steering control unit, rear parking aid sender (Variant)

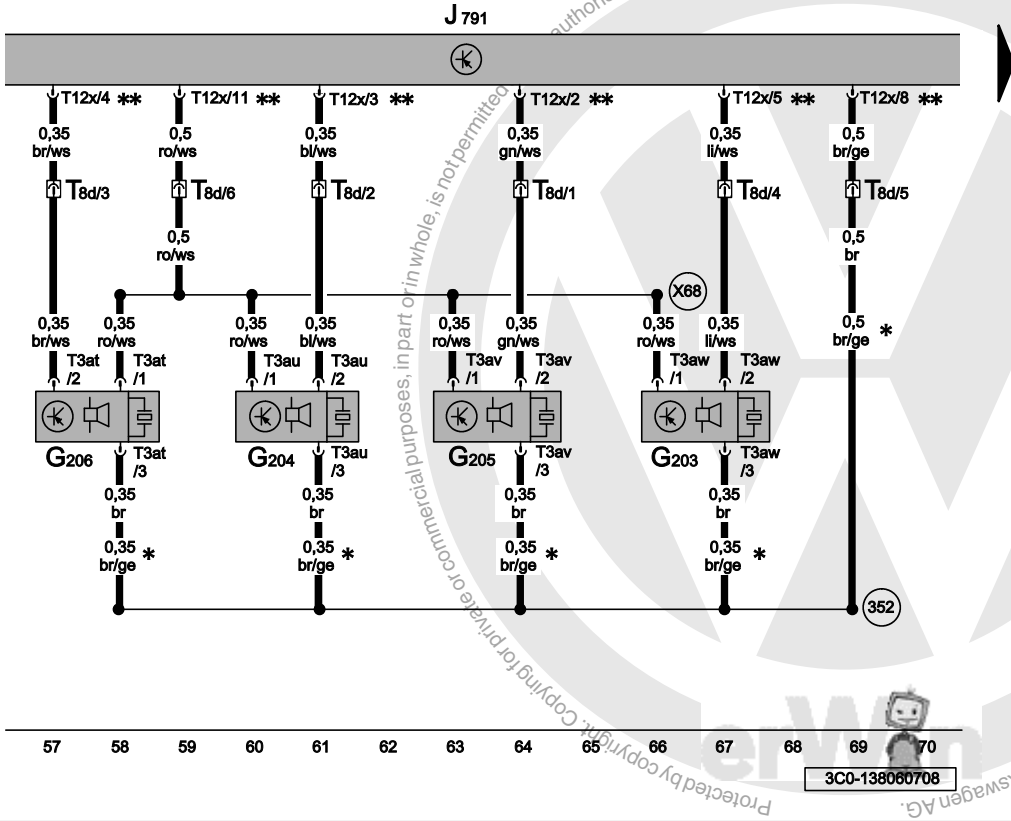
G203	Rear left parking aid sender
G204	Rear centre left parking aid sender
G205	Rear centre right parking aid sender
G206	Rear right parking aid sender
J791	Park assist steering control unit, on left next to dash panel insert
T3at	3-pin connector
T3au	3-pin connector
T3av	3-pin connector
T3aw	3-pin connector
T8d	8-pin connector, black, on rear bumper on right
T12x	12-pin connector, black
352	Earth connection (parking aid), in rear bumper wiring harness
X68	Positive connection (parking aid), in rear bumper wiring harness
*	Only Variant

ws	=	white
sw	=	black
ro	=	red
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bl	=	blue
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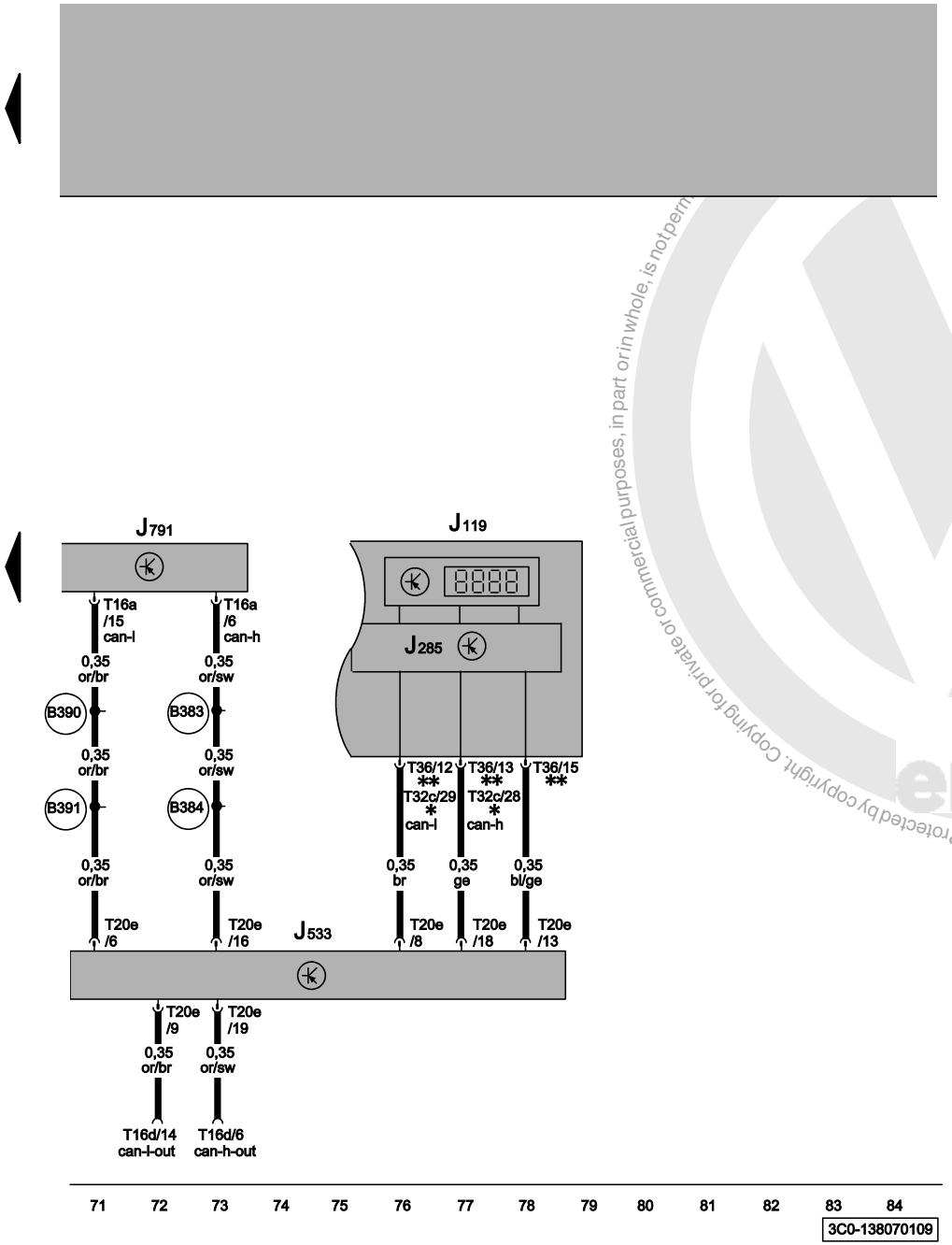
Park assist steering steering control unit, rear parking aid sender (saloon)

G203	Rear left parking aid sender
G204	Rear centre left parking aid sender
G205	Rear centre right parking aid sender
G206	Rear right parking aid sender
J791	Park assist steering control unit, on left next to dash panel insert
T3at	3-pin connector
T3au	3-pin connector
T3av	3-pin connector
T3aw	3-pin connector
T8d	8-pin connector, black, on rear bumper on right
T12x	12-pin connector, black
352	Earth connection (parking aid), in rear bumper wiring harness
X68	Positive connection (parking aid), in rear bumper wiring harness
*	Applicable from May 2008
**	Only saloon models



ws	=	white
sw	=	black
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Park assist steering steering control unit, dash panel insert, multifunction display, data bus diagnosis interface, self-diagnosis connection

J119	Multifunction display
J285	Control unit in dash panel insert
J533	Data bus diagnosis interface
J791	Park assist steering control unit, on left next to dash panel insert
T16a	16-pin connector, brown
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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2.0 l/100 kW - turbo diesel with common rail, engine code CBAA

From November 2007

2.0 l/103 kW - turbo diesel with common rail, engine code CBAB

From November 2007

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

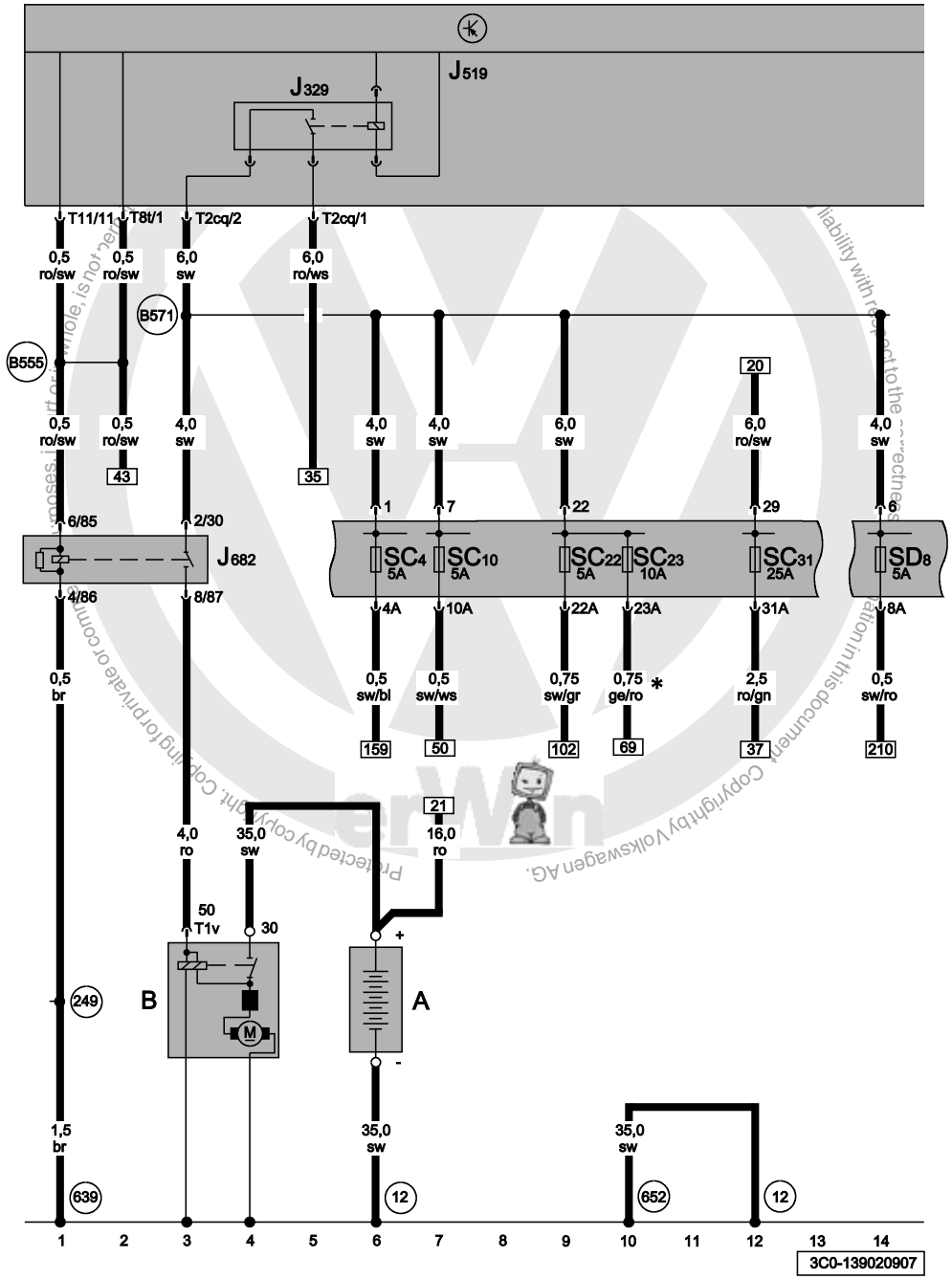
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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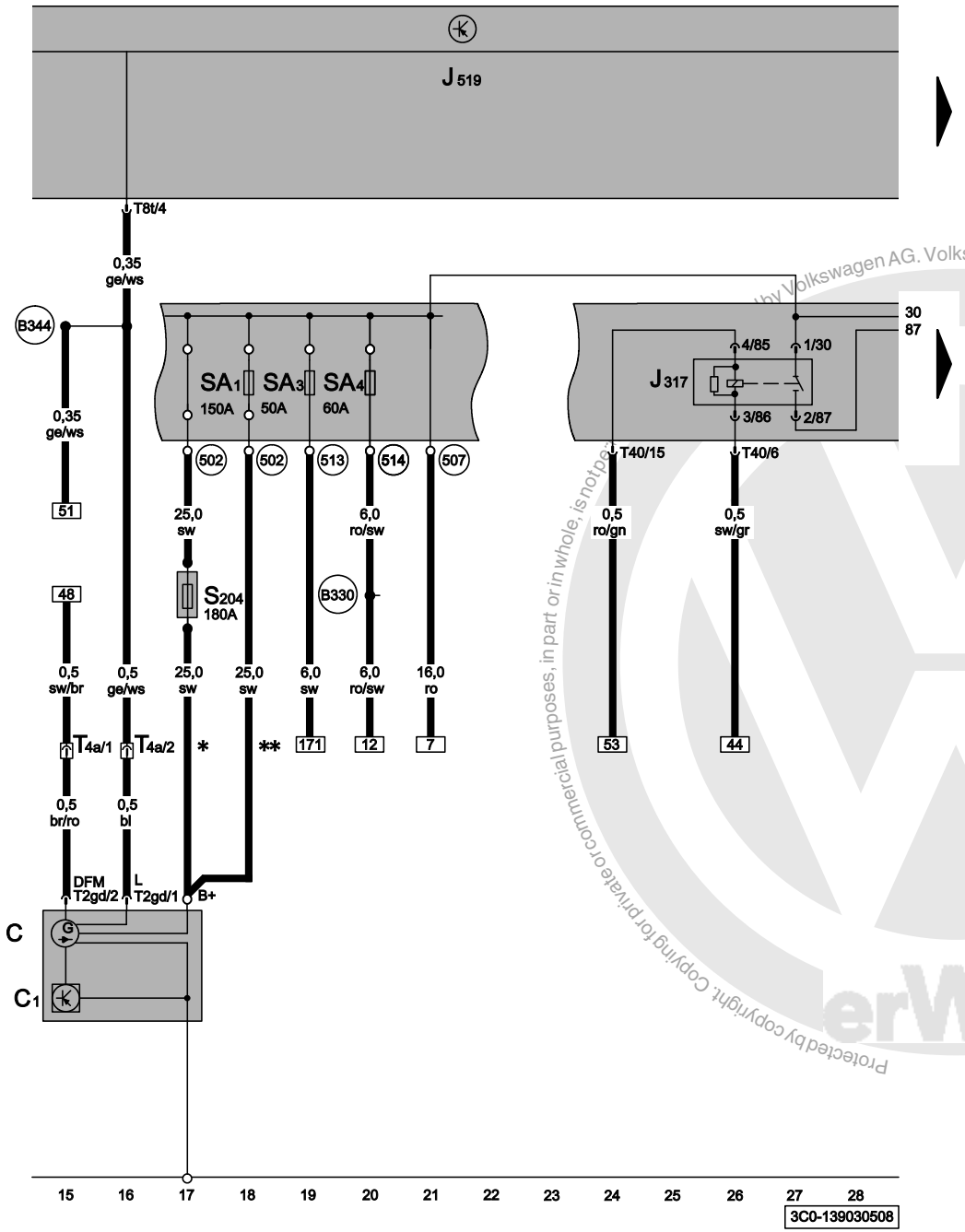


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
J329	Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, on relay carrier on left under dash panel
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models for cold countries

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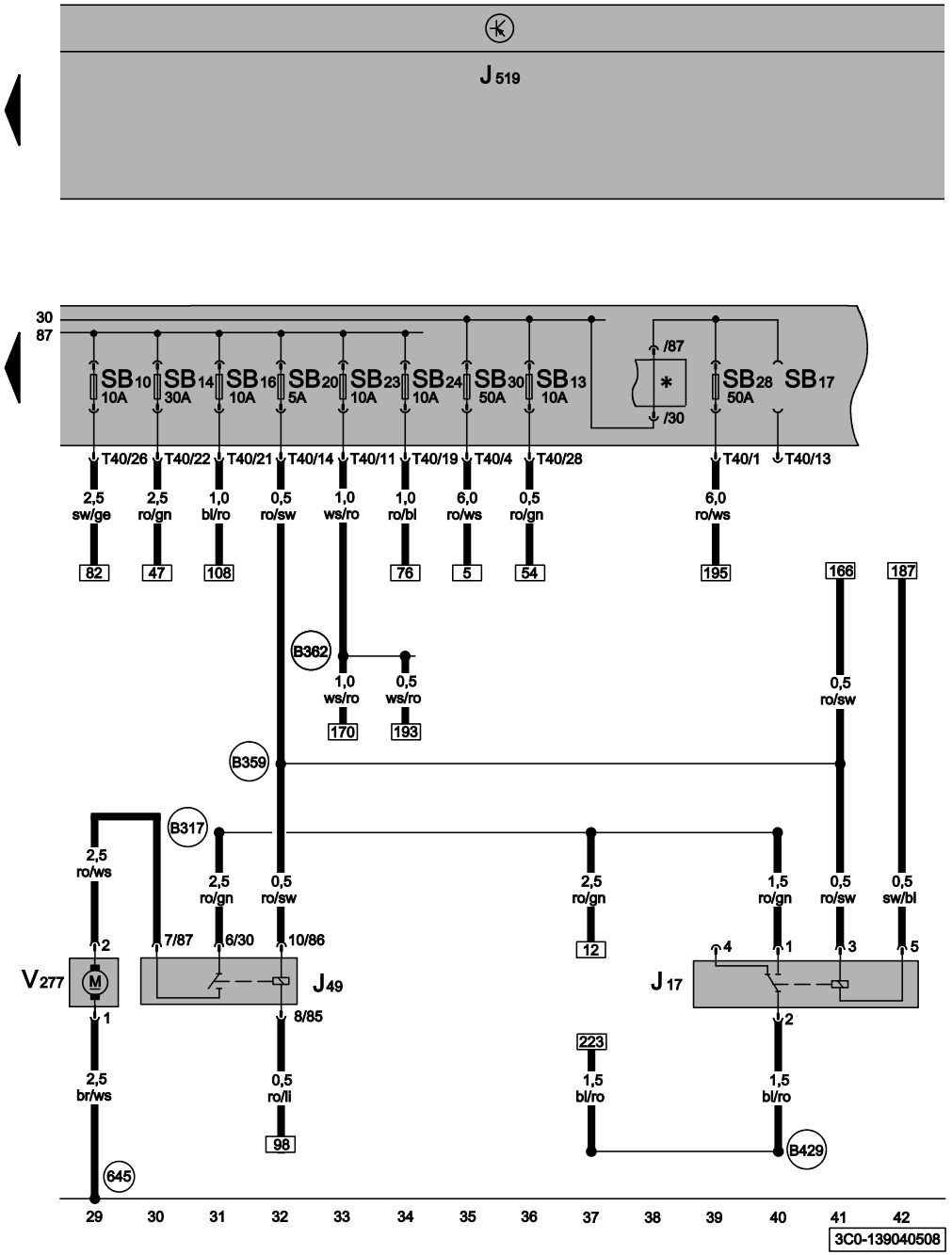


Alternator, terminal 30 voltage supply relay, fuses SA, fuse 1 (30)

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 180 A alternator
**	Only models with 140 A alternator

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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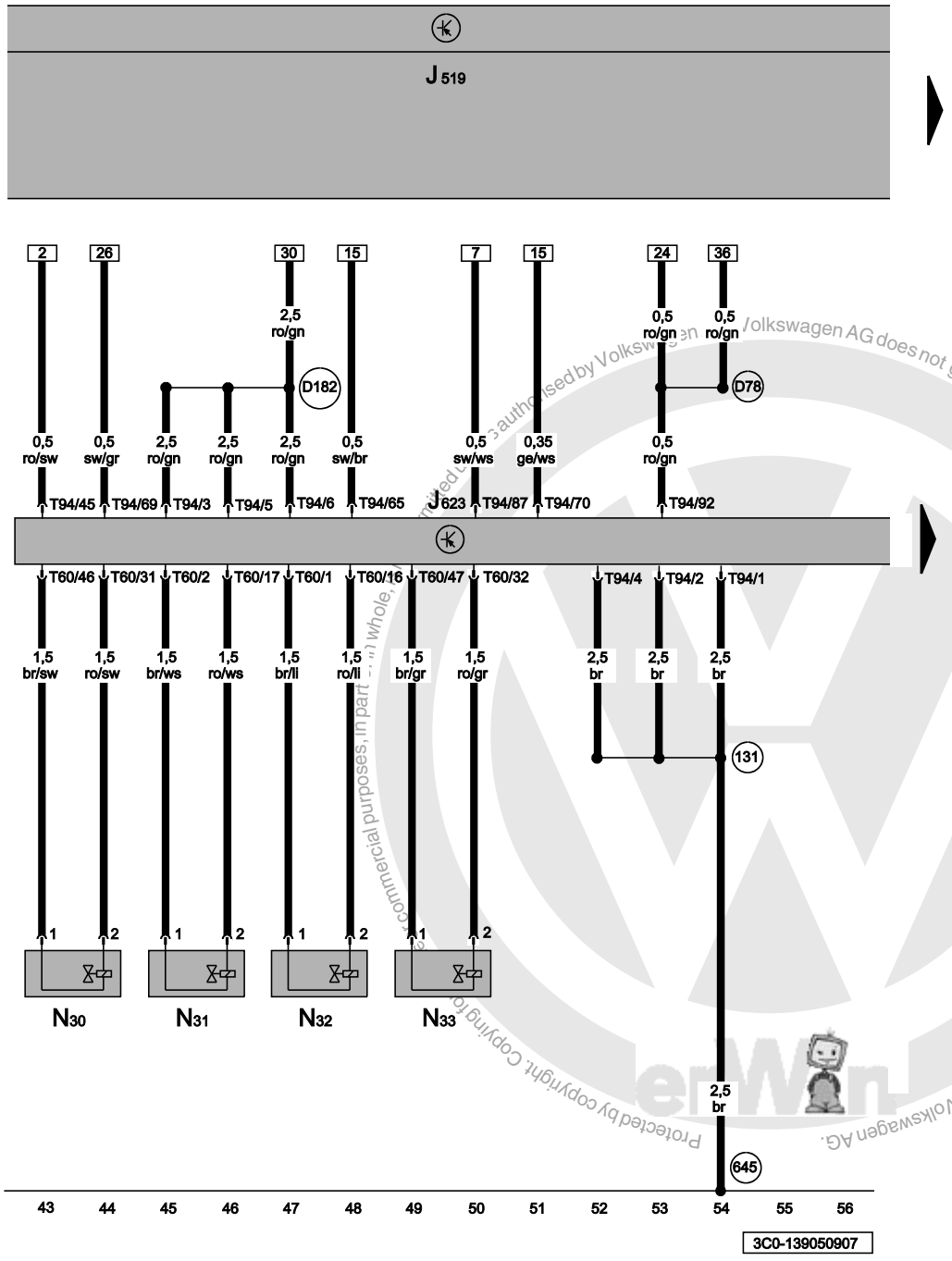


Fuel pump relay, electric fuel pump 2 relay, additional fuel pump, fuses SB

J17	Fuel pump relay, on relay carrier on left under dash panel (404)
J49	Electric fuel pump 2 relay
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T40	40-pin connector
V277	Fuel pump 2
645	Earth point 1, on bulkhead
B317	Connection 3 (30a), in main wiring harness
B359	Connection 10 (87a), in main wiring harness
B362	Connection 13 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Push-in bridge on relay slot R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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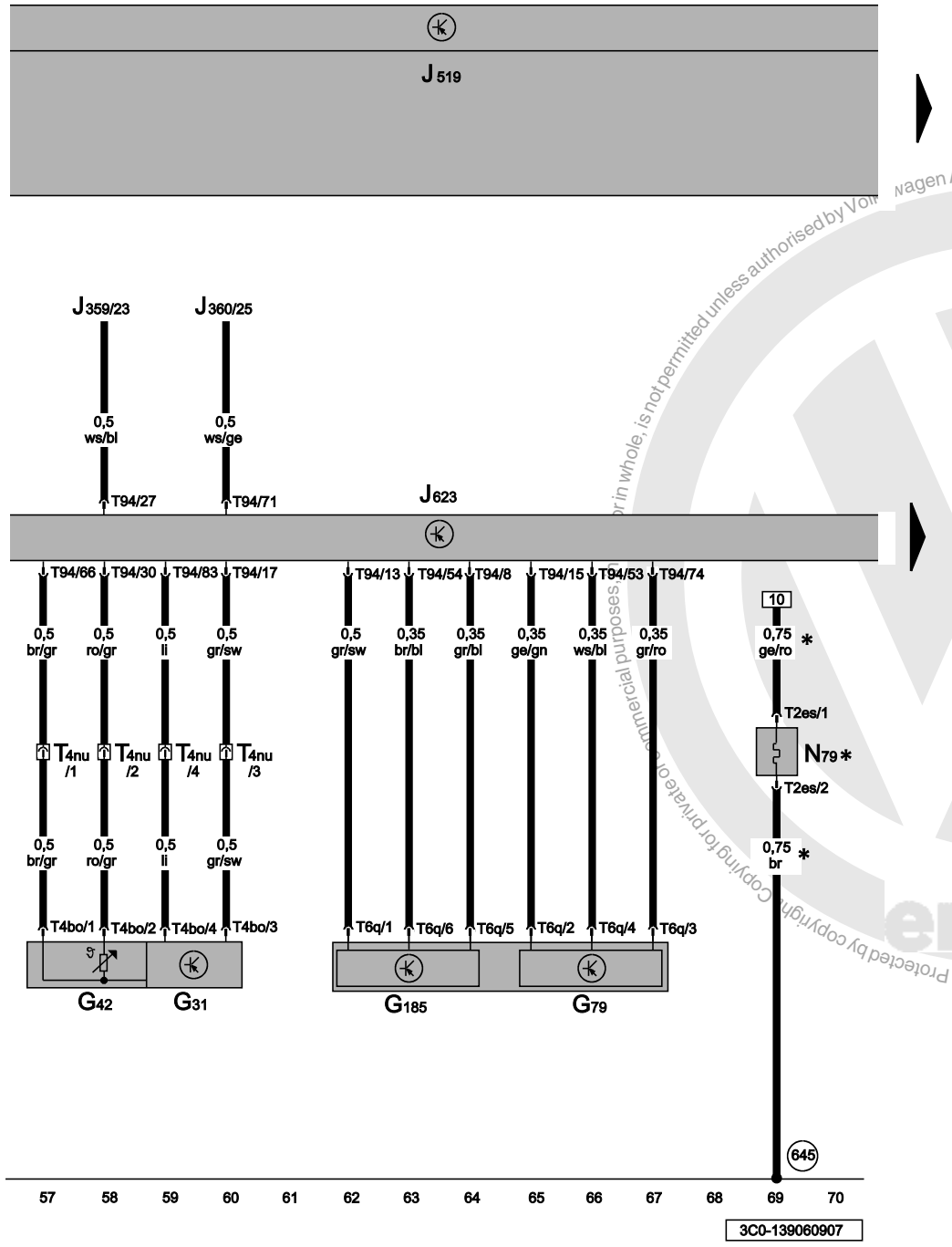


Engine control unit, injectors for cylinders 1-4

J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T60	60-pin connector
T94	94-pin connector
131	Earth connection 2, in engine compartment wiring harness
645	Earth point 1, on bulkhead
D78	Positive connection 1 (30a), in engine compartment wiring harness
D182	Connection 3 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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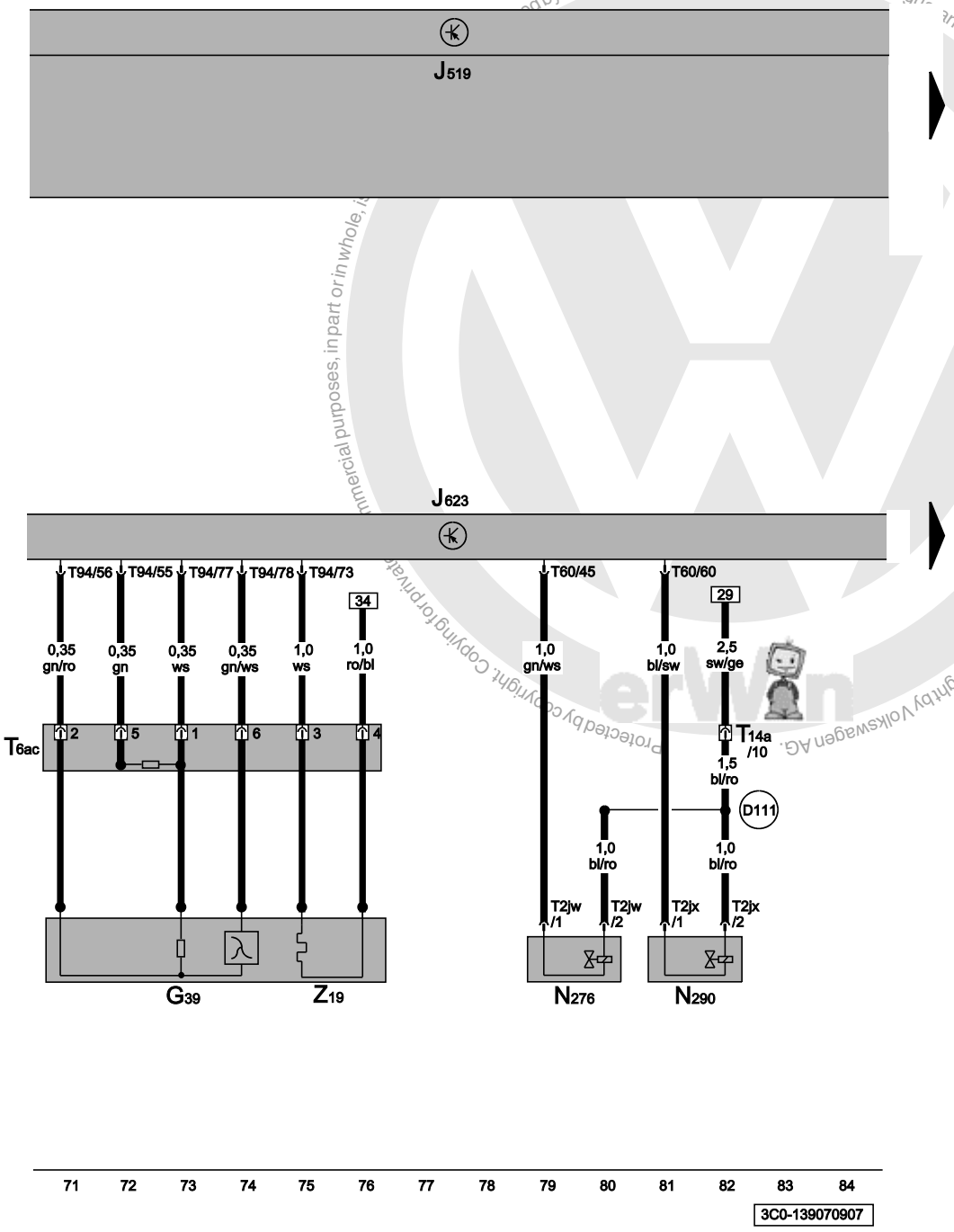


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender, crankcase breather heater element

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J359	Low heat output relay
J360	High heat output relay
J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
T2es	2-pin connector
T4bo	4-pin connector
T4nu	4-pin connector, black
T6q	6-pin connector
T94	94-pin connector
(645)	Earth point 1, on bulkhead
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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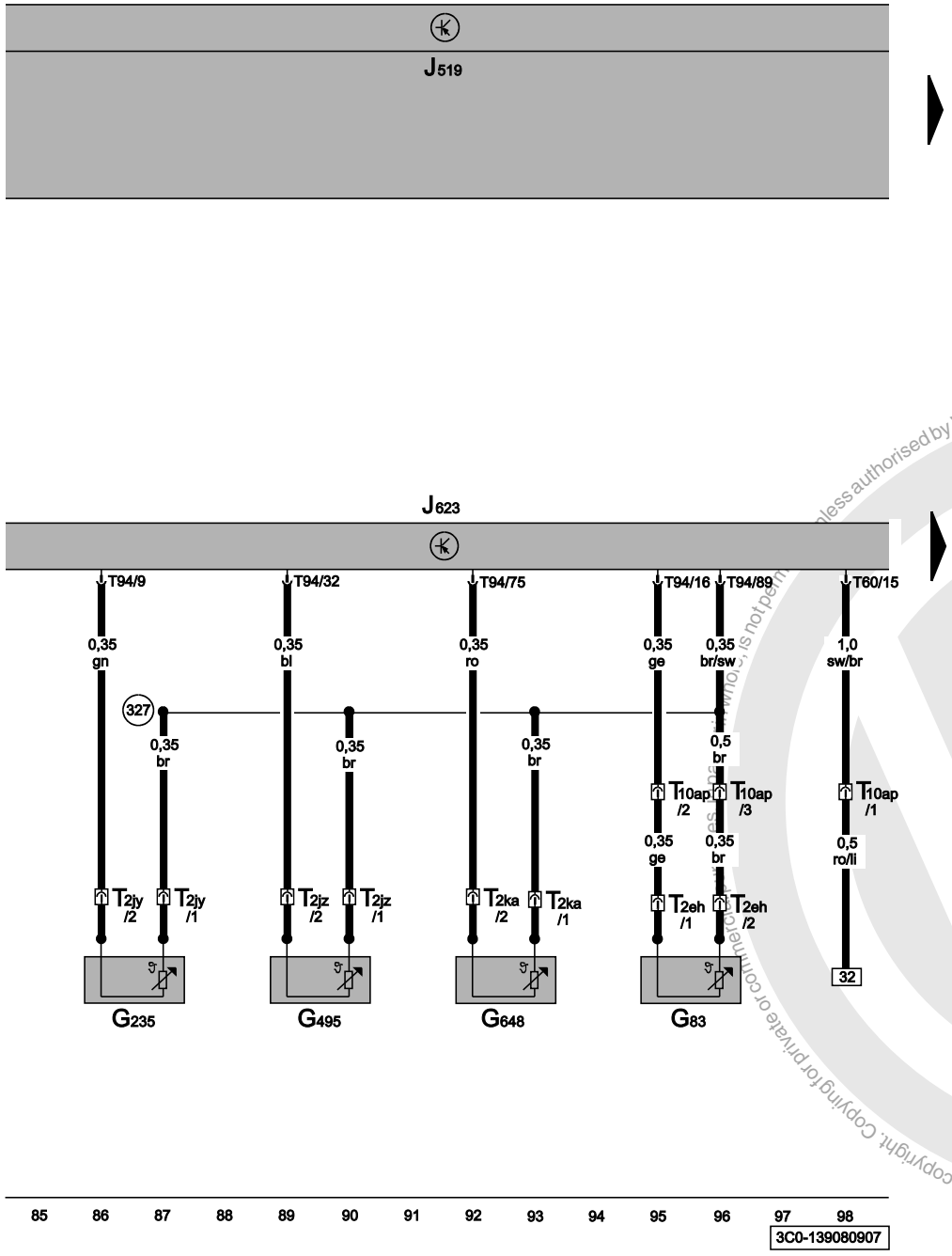


Lambda probe, engine control unit, fuel pressure regulating valve, fuel metering valve

G39	Lambda probe
J519	Onboard supply control unit
J623	Engine control unit
N276	Fuel pressure regulating valve
N290	Fuel metering valve
T2jw	2-pin connector
T2jx	2-pin connector
T6ac	6-pin connector, black, coupling point for Lambda probe
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
Z19	Lambda probe heater
(D111)	Connection 9, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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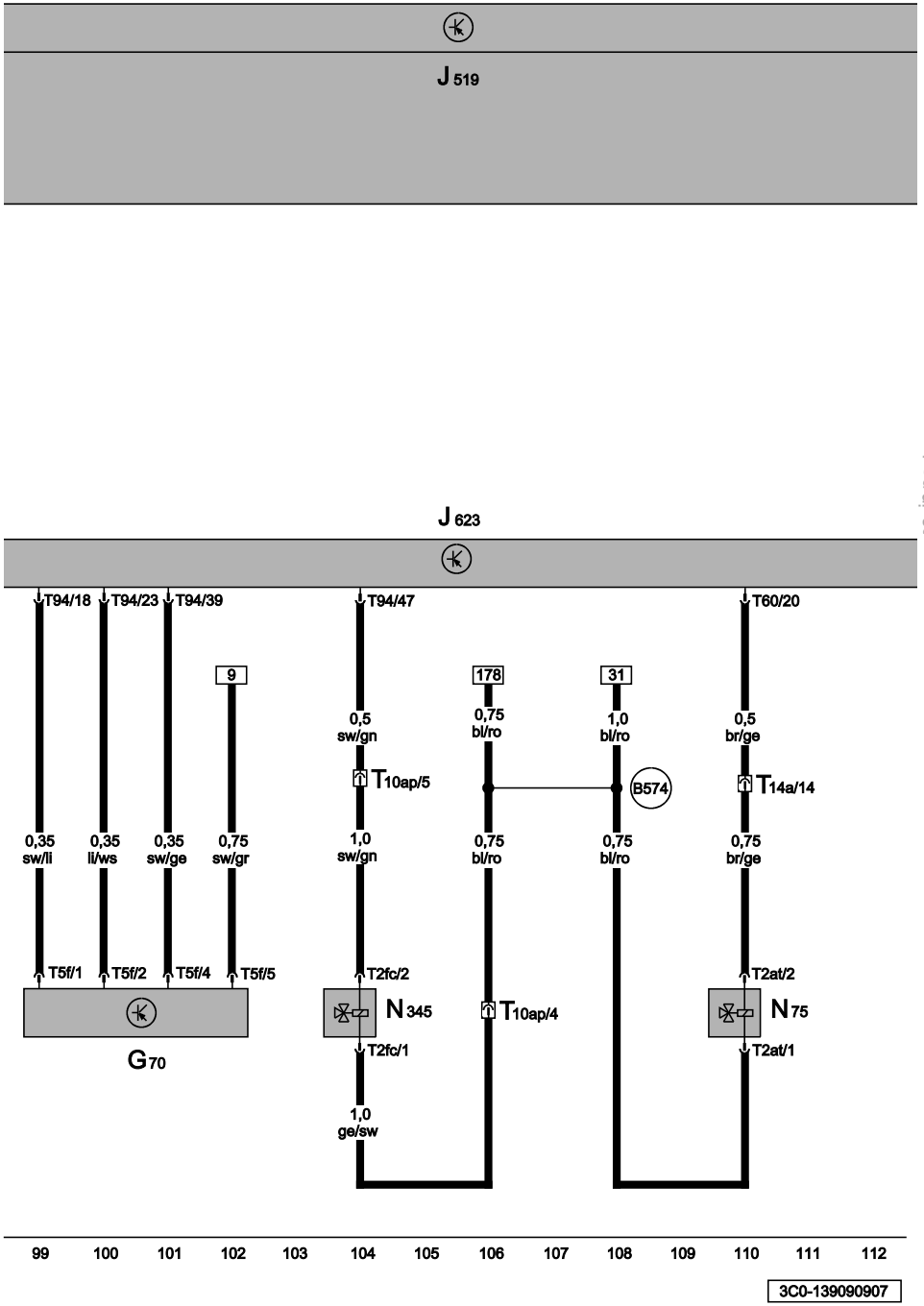


Accelerator position sender, exhaust gas temperature sender, radiator outlet coolant temperature sender, engine control unit

G83	Radiator outlet coolant temperature sender
G235	Exhaust temperature sender 1
G495	Exhaust temperature sender 3
G648	Exhaust temperature sender 4
J519	Onboard supply control unit
J623	Engine control unit, centre in plenum chamber
T2eh	2-pin connector
T2jy	2-pin connector, black
T2jz	2-pin connector, brown
T2ka	2-pin connector, orange
T10ap	10-pin connector, near left headlight
T60	60-pin connector
T94	94-pin connector
(327)	Earth connection (sender earth), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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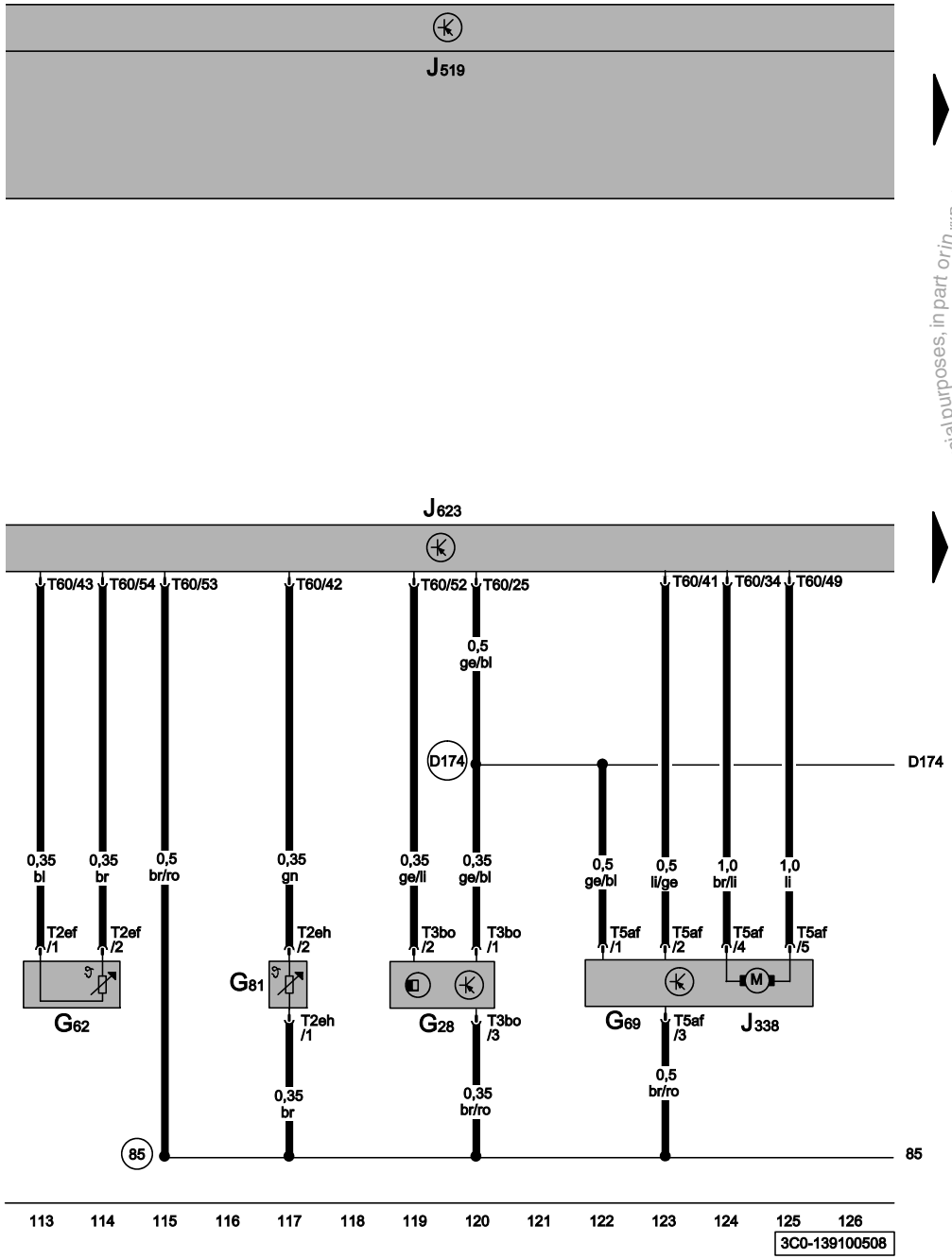
Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler changeover valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler changeover valve
T2at	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T10ap	10-pin connector, near left headlight
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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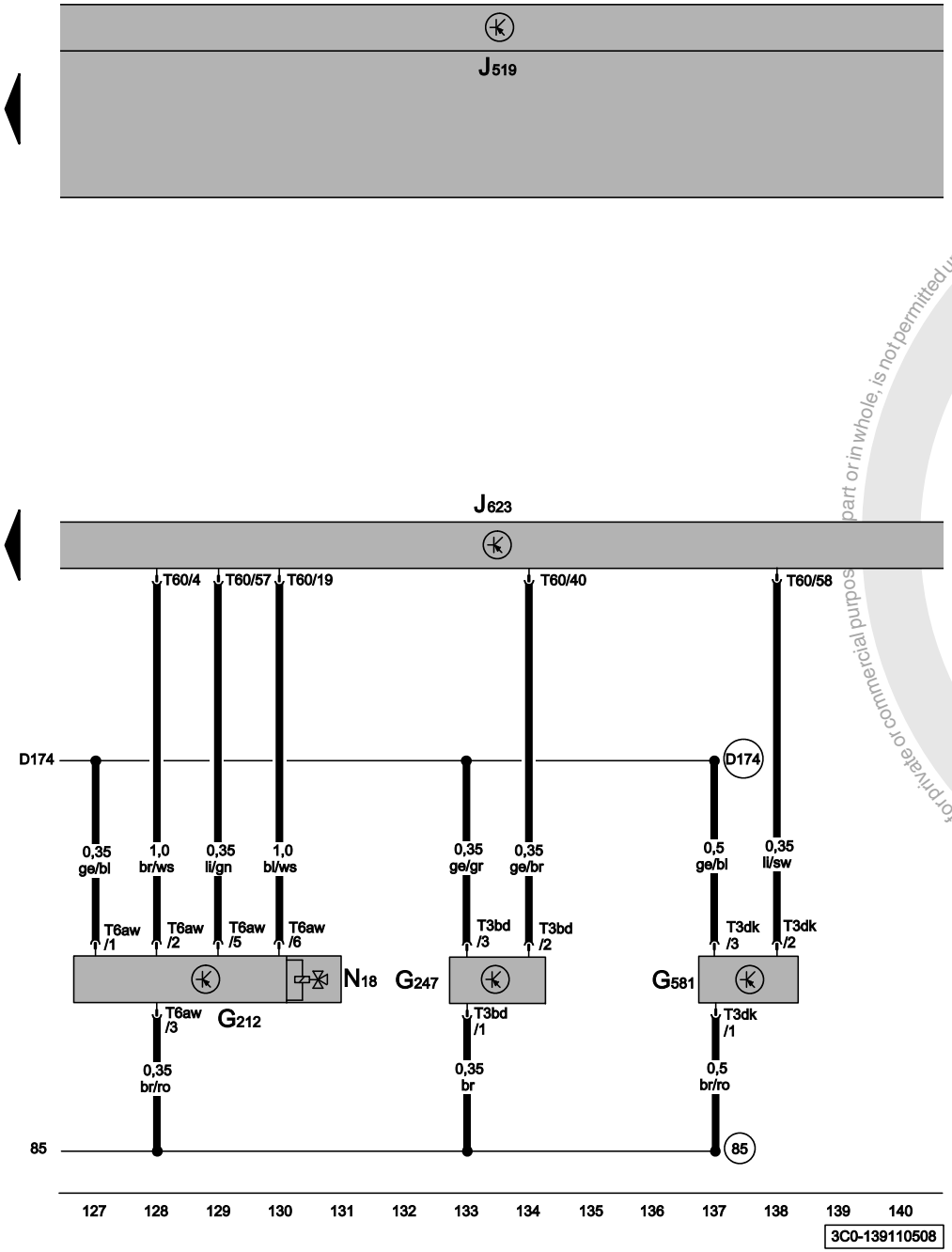
Throttle valve module, throttle valve potentiometer, fuel temperature sender, coolant temperature sender, engine speed sender, engine control unit

G28	Engine speed sender
G69	Throttle valve potentiometer
G62	Coolant temperature sender
G81	Fuel temperature sender
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit, centre in plenum chamber
T2ef	2-pin connector
T2eh	2-pin connector
T3bo	3-pin connector
T5af	5-pin connector
T60	60-pin connector
85	Earth connection 1, in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

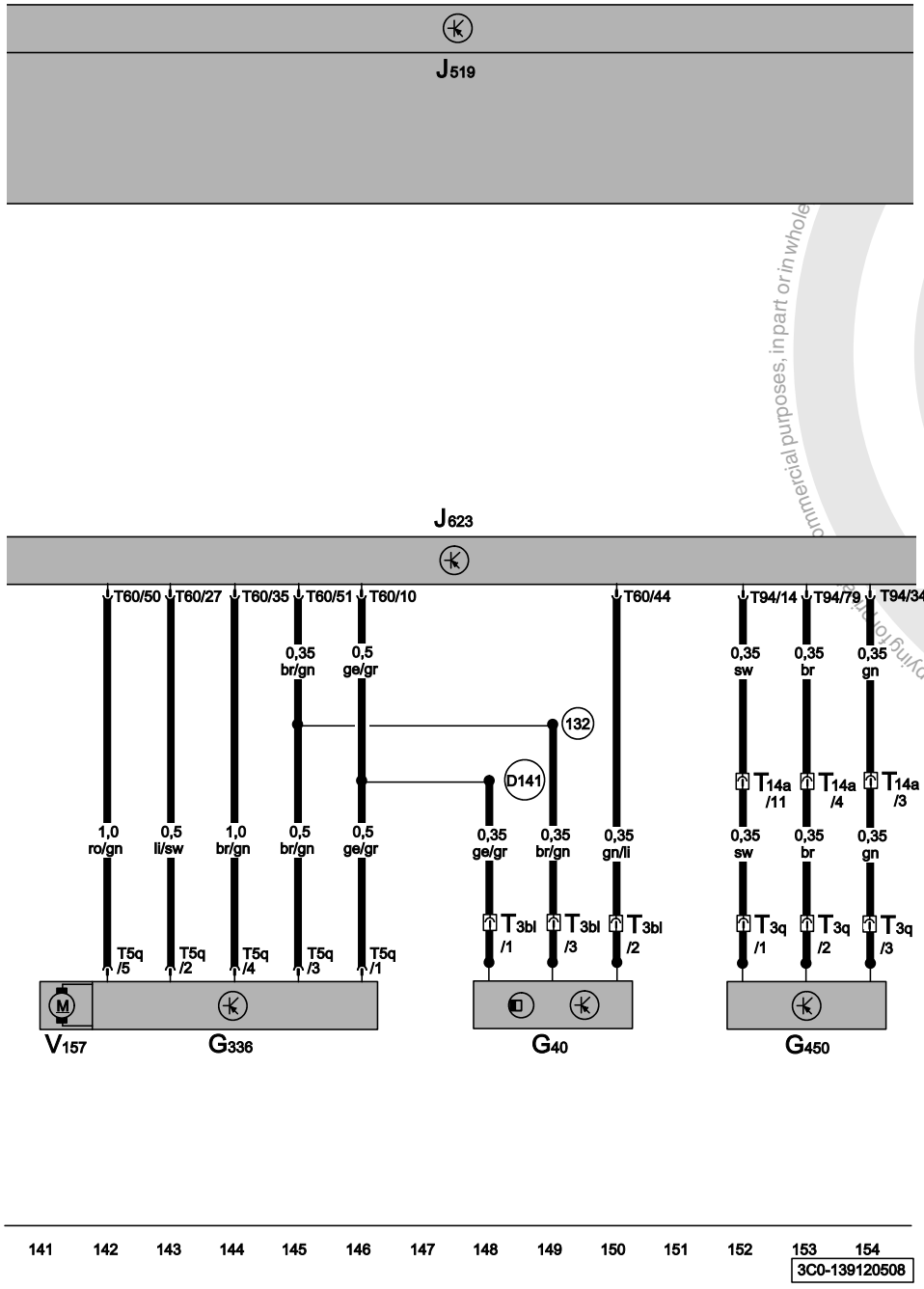
Exhaust gas recirculation valve, exhaust gas recirculation potentiometer, position sender for charge pressure positioner, exhaust gas recirculation Potentiometer, fuel pressure sender

G212	Potentiometer for exhaust gas recirculation
G247	Fuel pressure sender
G581	Position sender for charge pressure positioner
J519	Onboard supply control unit
J623	Engine control unit, centre in plenum chamber
N18	Exhaust gas recirculation valve
T3bd	3-pin connector
T3dk	3-pin connector
T6aw	6-pin connector
T60	60-pin connector
85	Earth connection 1, in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness



ws	=	white
sw	=	black
ro	=	red
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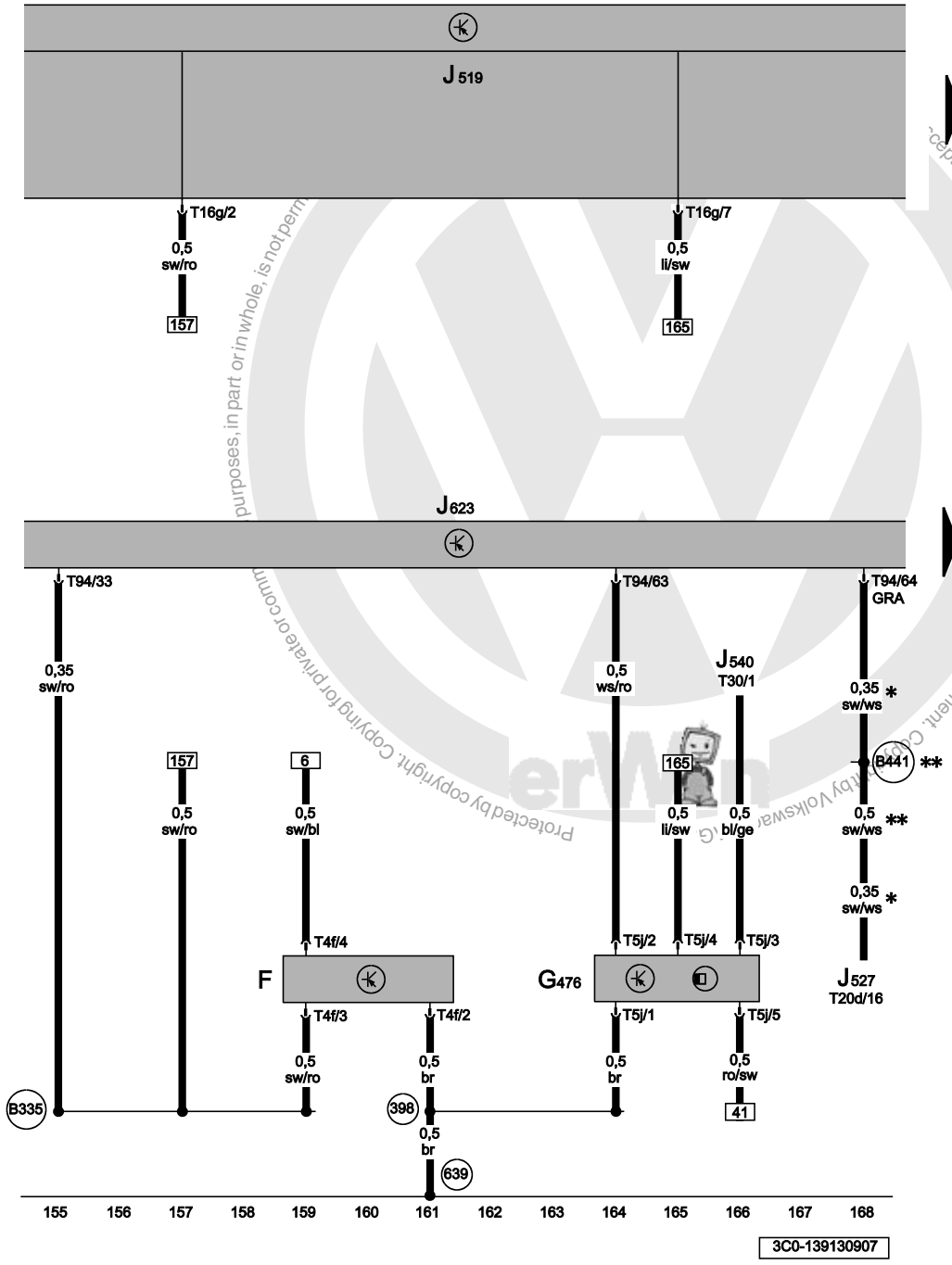


Engine control unit, intake manifold flap potentiometer, intake manifold flap motor, Hall sender, exhaust gas pressure sensor 1

G40	Hall sender
G336	Intake manifold flap potentiometer
G450	Exhaust gas pressure sensor 1
J519	Onboard supply control unit
J623	Engine control unit, centre in plenum chamber
T3q	3-pin connector
T3bl	3-pin connector, grey
T5p	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V157	Intake manifold flap motor
(132)	Earth connection 3, in engine compartment wiring harness
(D141)	Connection (5V) in engine prewiring harness

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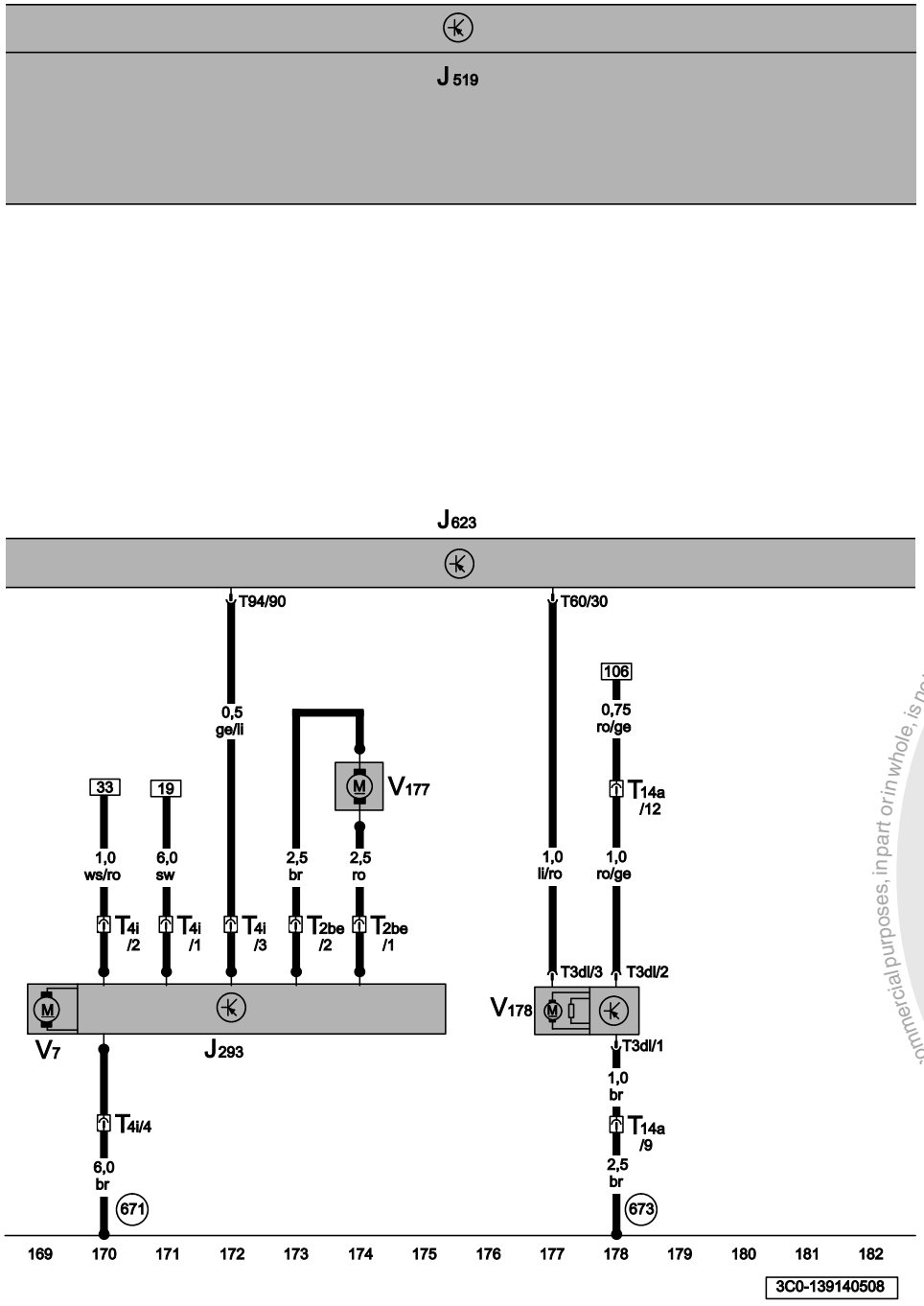


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Engine control unit, clutch position sender, brake light switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector, black
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

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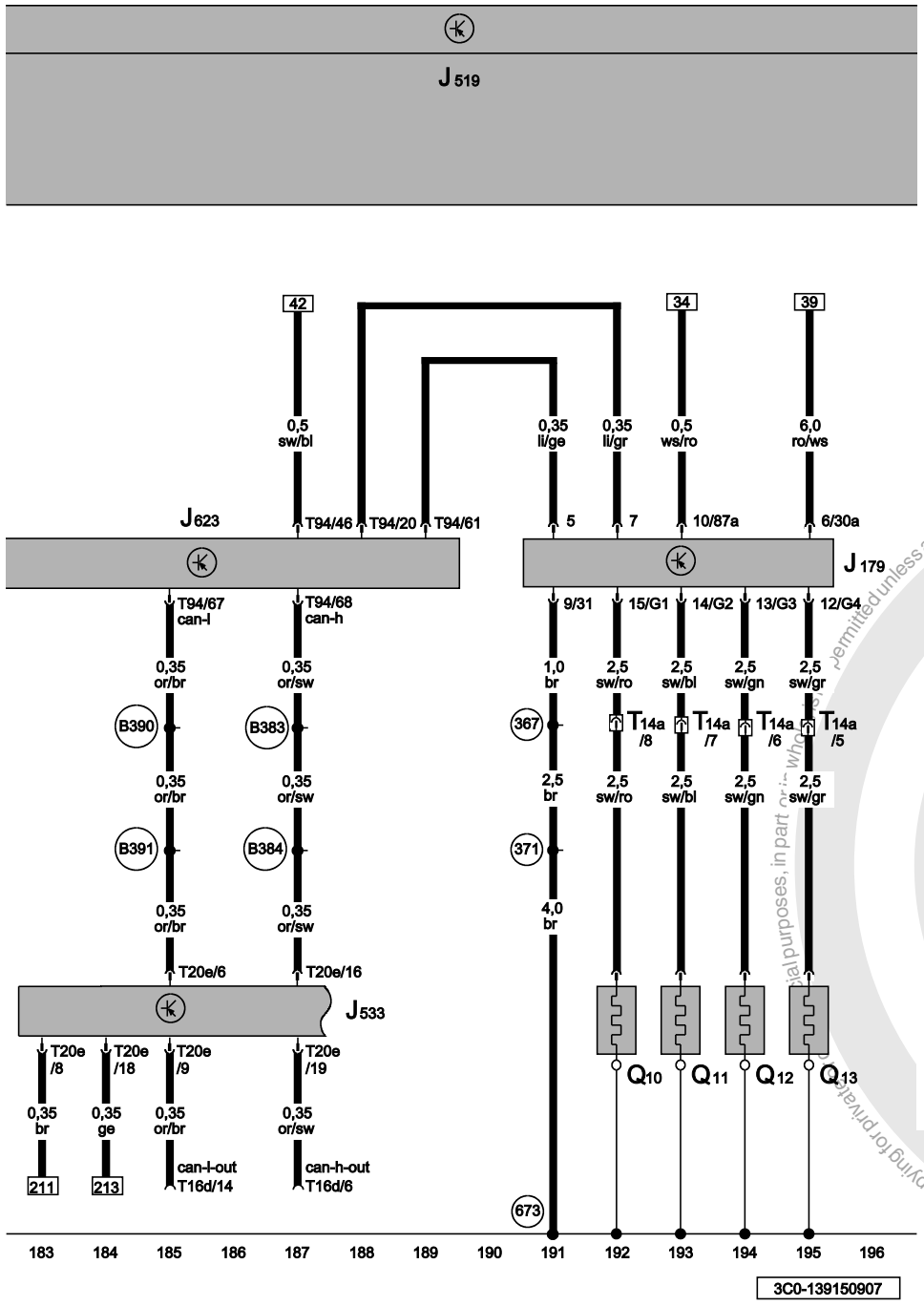


Engine control unit, radiator fan control unit, radiator fan, continued coolant circulation pump 2

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
T2be	2-pin connector, on lock carrier
T3dl	3-pin connector
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
V178	Coolant circulation pump 2
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member

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sw = black
ro = red
br = brown
gn = green
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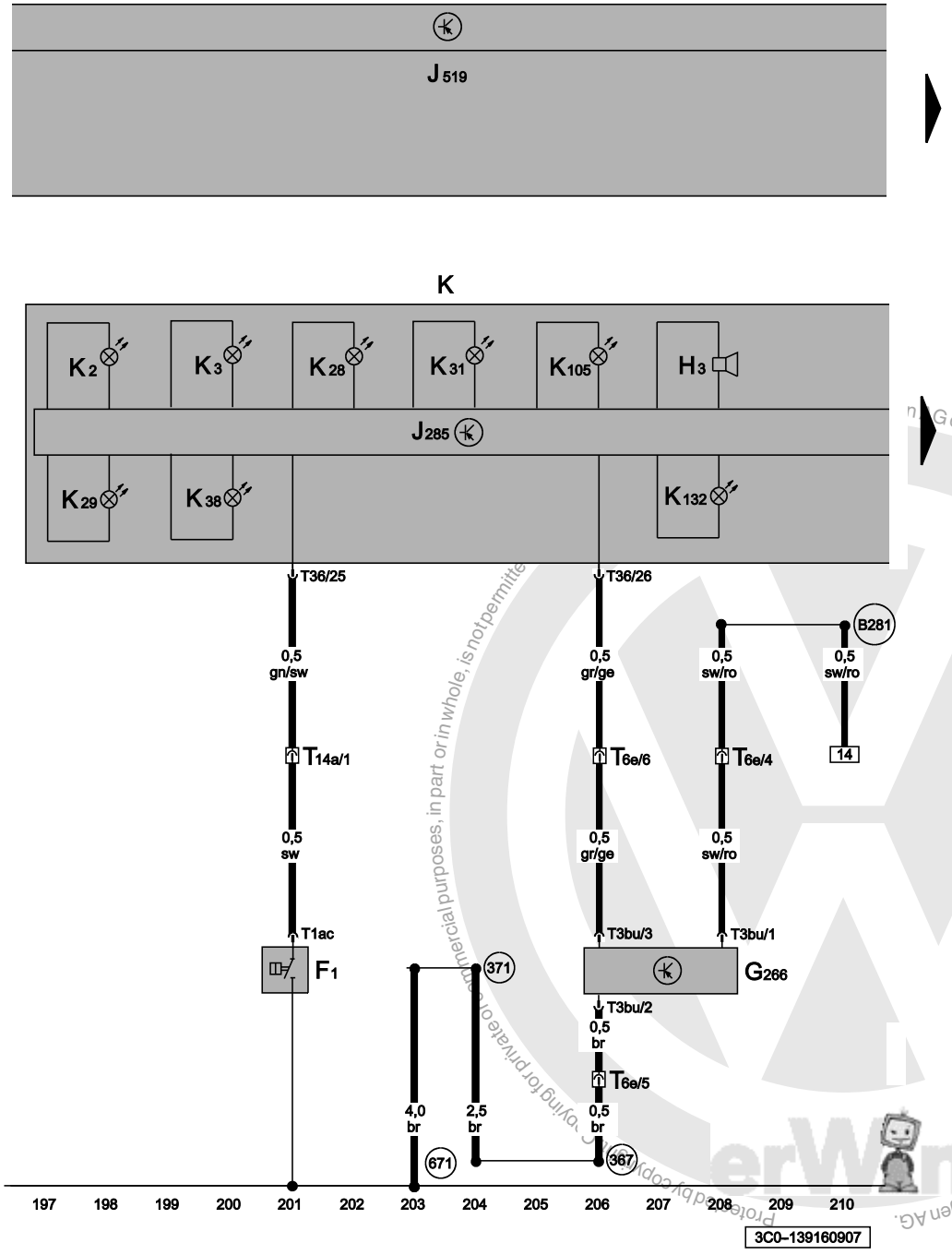


Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
673	Earth point 3, on front of left longitudinal member
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

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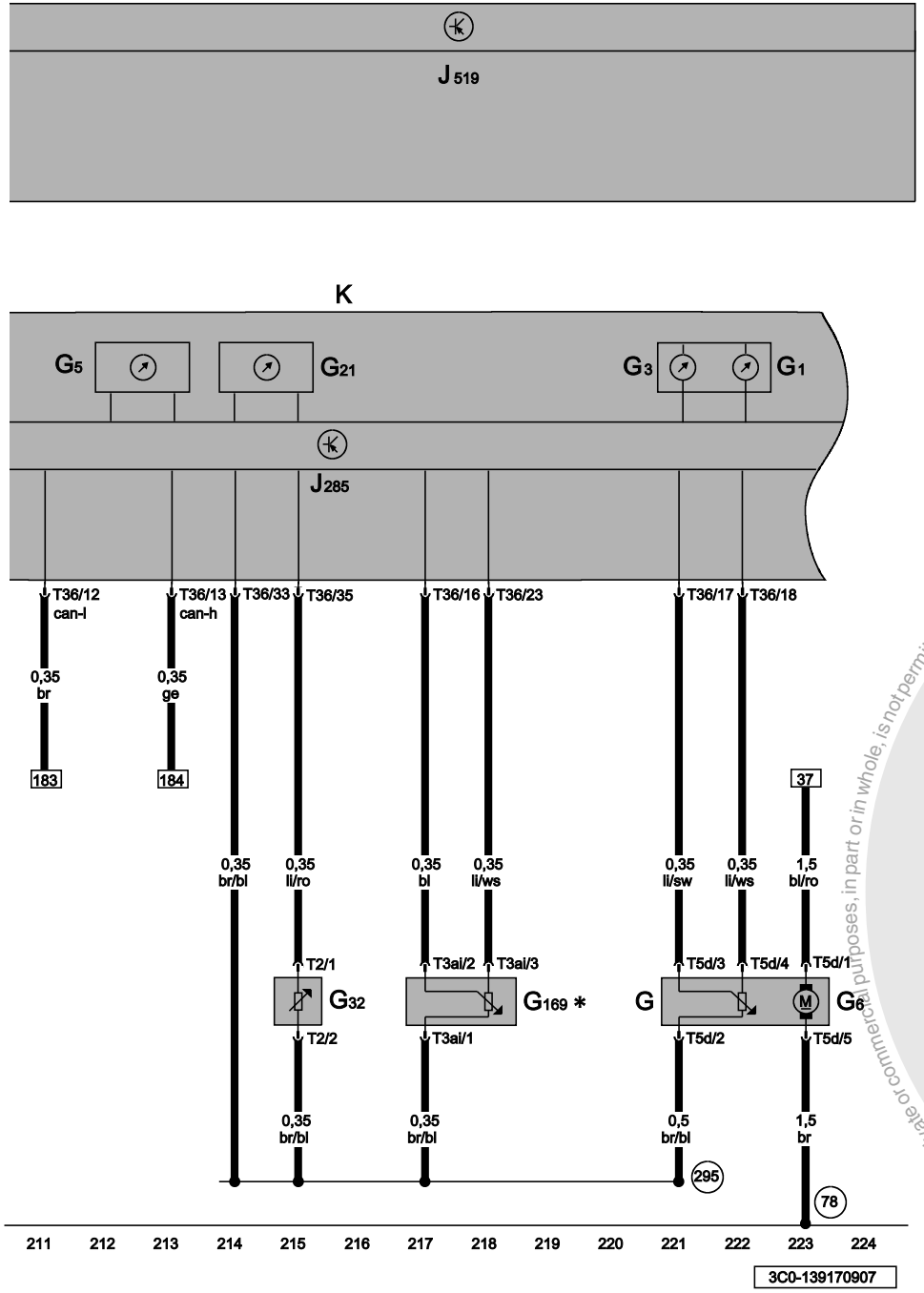


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T36	36-pin connector
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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Dash panel insert, rev counter, speedometer, coolant temperature gauge, fuel system pressurisation pump, fuel gauge

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
*	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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2.0 l - Motronic/147 kW, engine code CAWB, CCTA

From November 2007

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

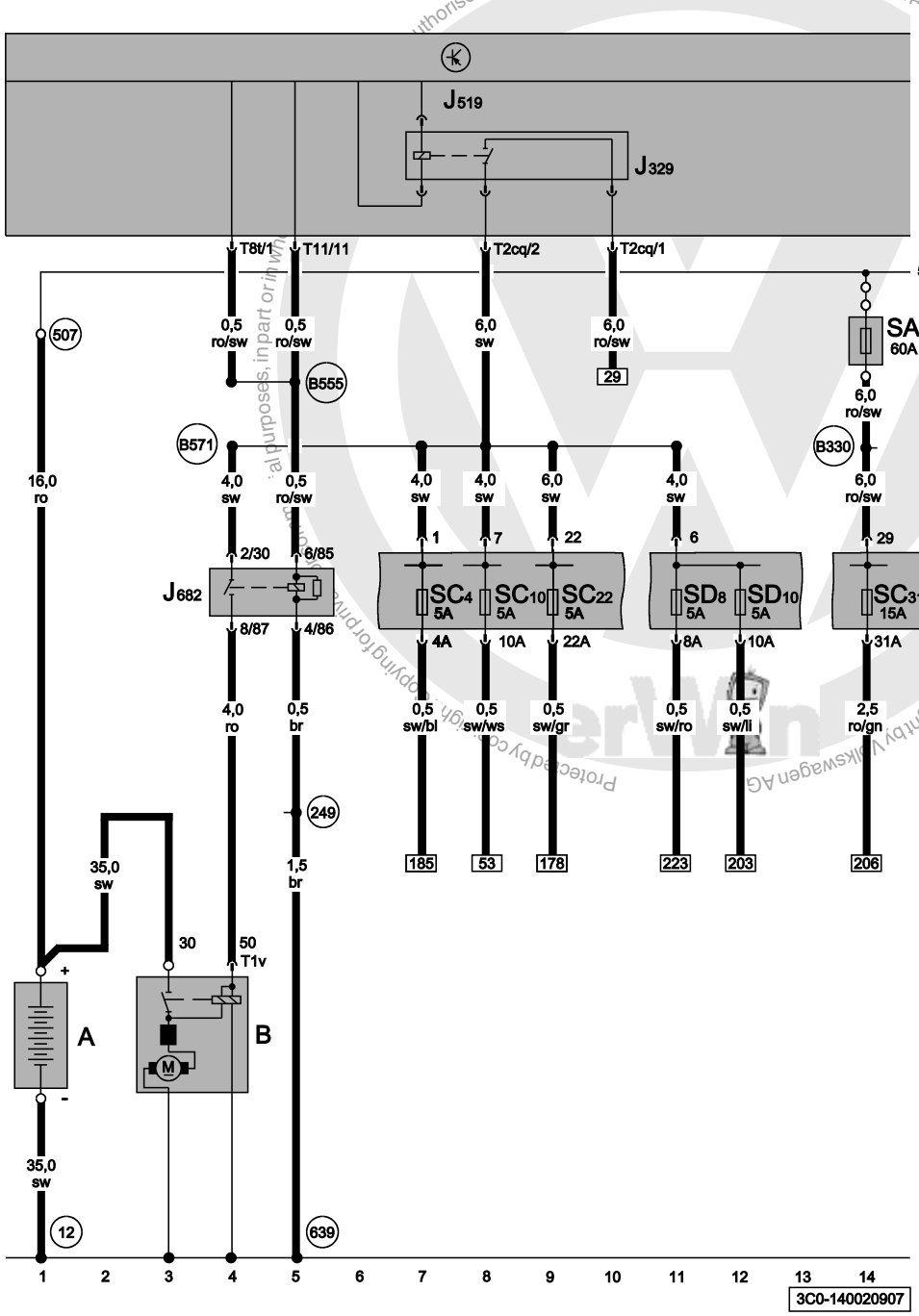
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Battery, starter, relay for voltage supply of term. 15, relay for voltage supply of term. 50, fuses

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, (433)
SA4	Fuse 4 on fuse holder A
SC4	Fuse 4 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC31	Fuse 31 on fuse holder C
SD8	Fuse 8 on fuse holder D
SD10	Fuse 10 on fuse holder D
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector

(12) Earth point, on left in engine compartment

(249) Earth connection 2, in interior wiring harness

(507) Threaded connection (30), on battery fuse holder

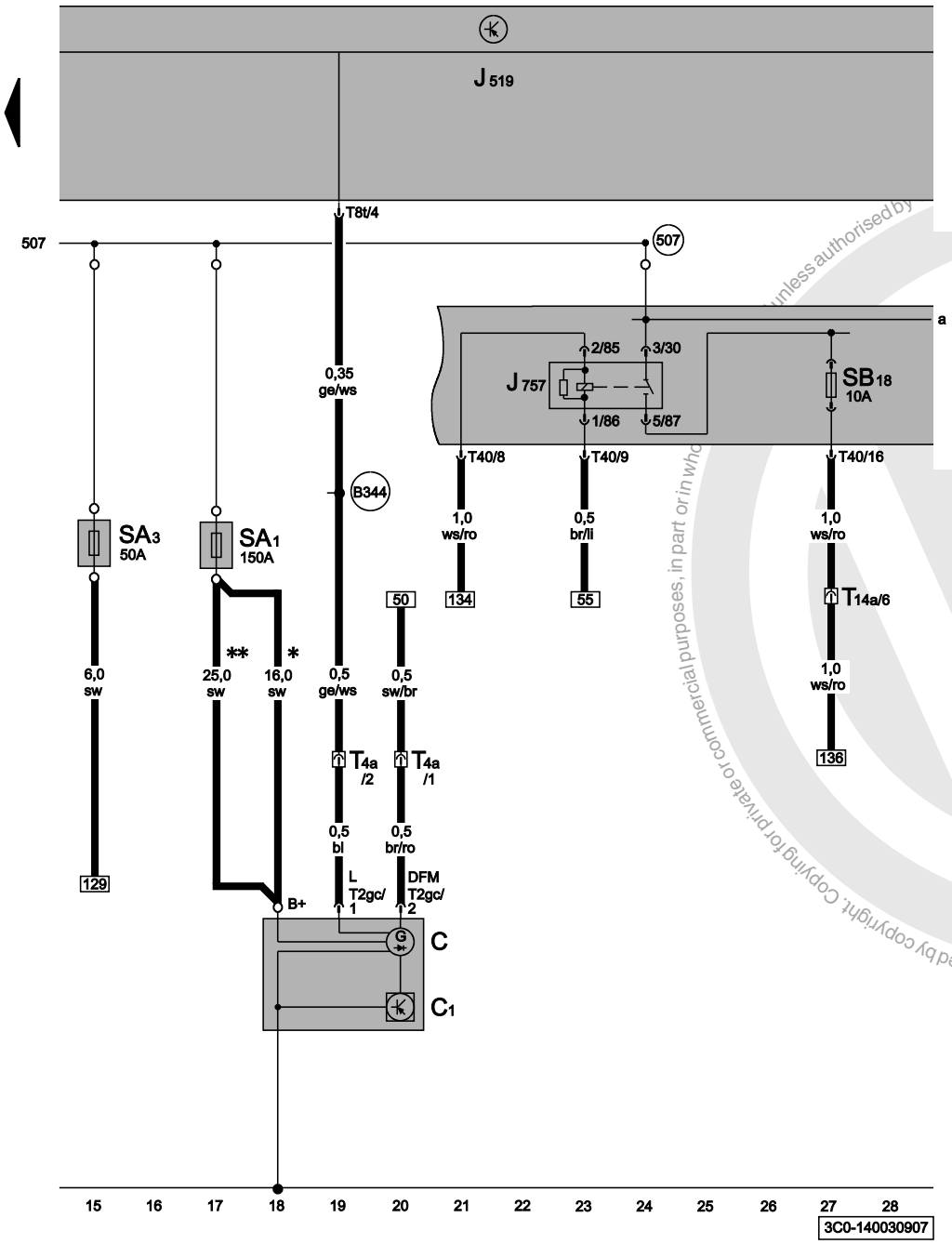
(639) Earth point, left A-pillar

(B330) Connection 19 (30a), in main wiring harness

(B555) Positive connection 2 (50), in main wiring harness

(B571) Connection 38 in main wiring harness

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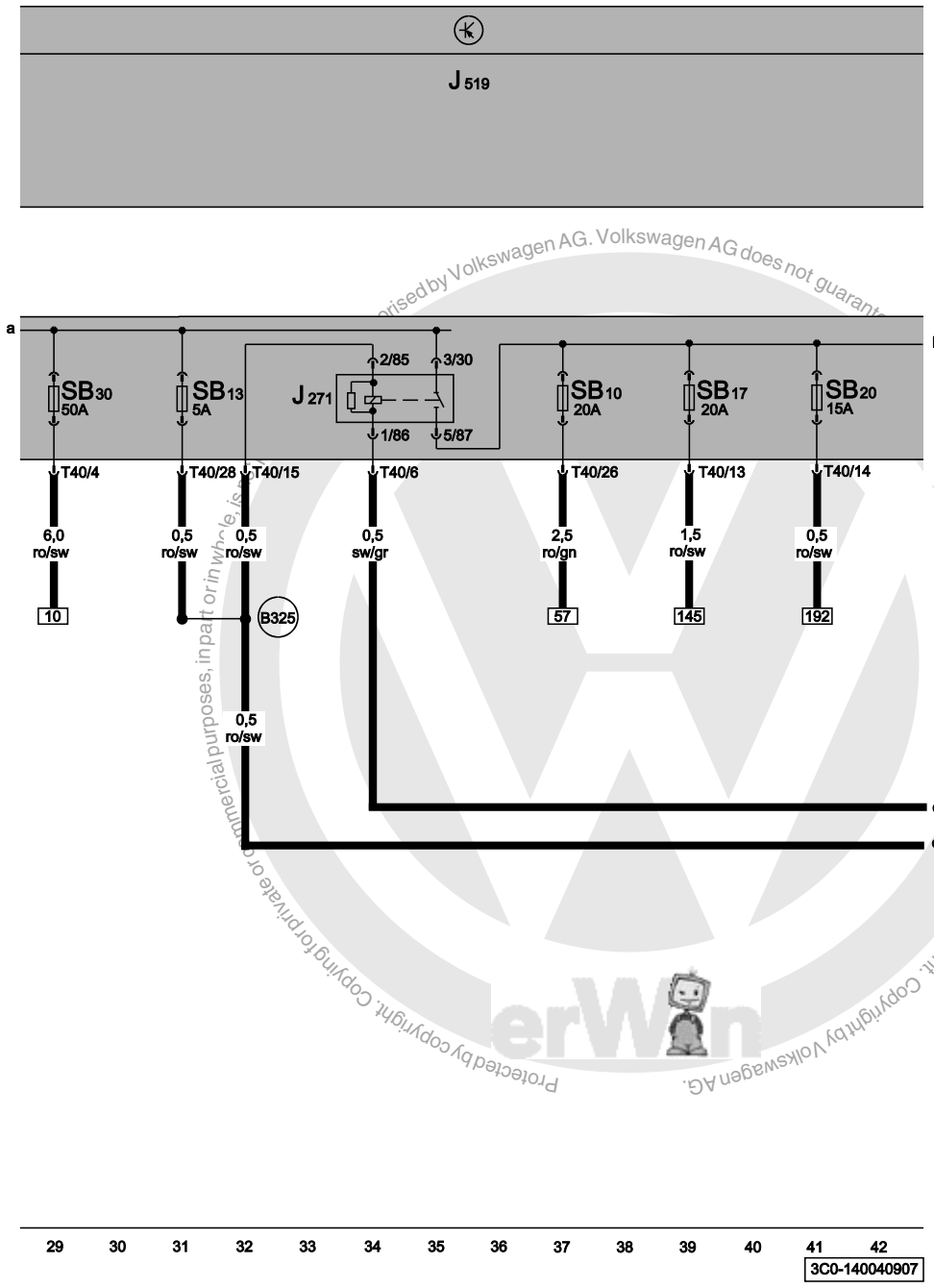


Alternator, current supply relay for engine components, fuses

C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J757	Engine component current supply relay
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB18	Fuse 18 on fuse holder B
T2gc	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T14a	14-pin connector, coupling point 1, on left in engine compartment
T40	40-pin connector
(507)	Threaded connection (30), on battery fuse holder
(B344)	Connection 1 (61), in main wiring harness
*	Only vehicles with 110 A alternator
**	Only vehicles with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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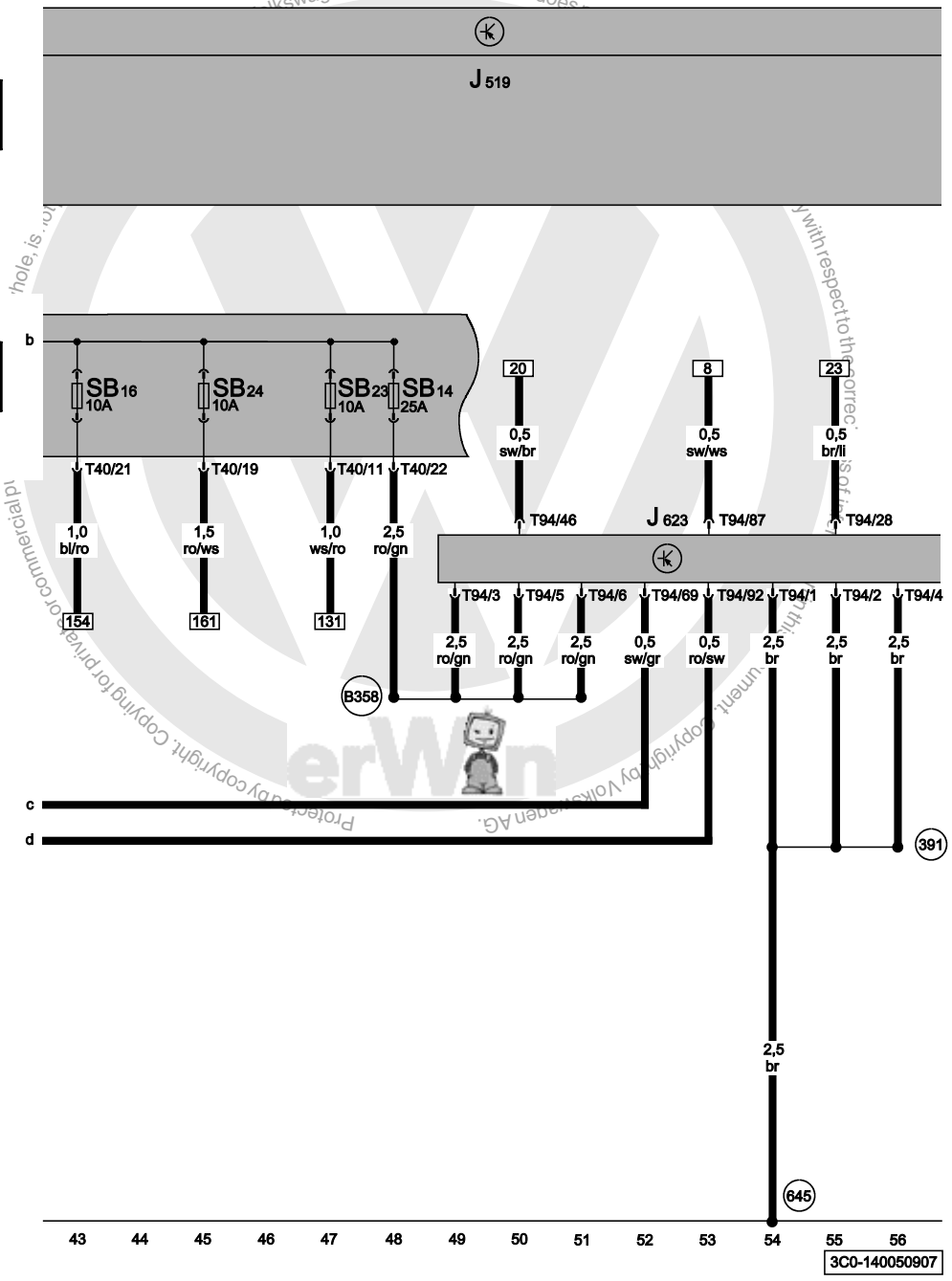


Relay for voltage supply of term. 15, fuses

J271	Motronic current supply relay (100)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB30	Fuse 30 on fuse holder B
T40	40-pin connector
B325	Positive connection 11 (30a), in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

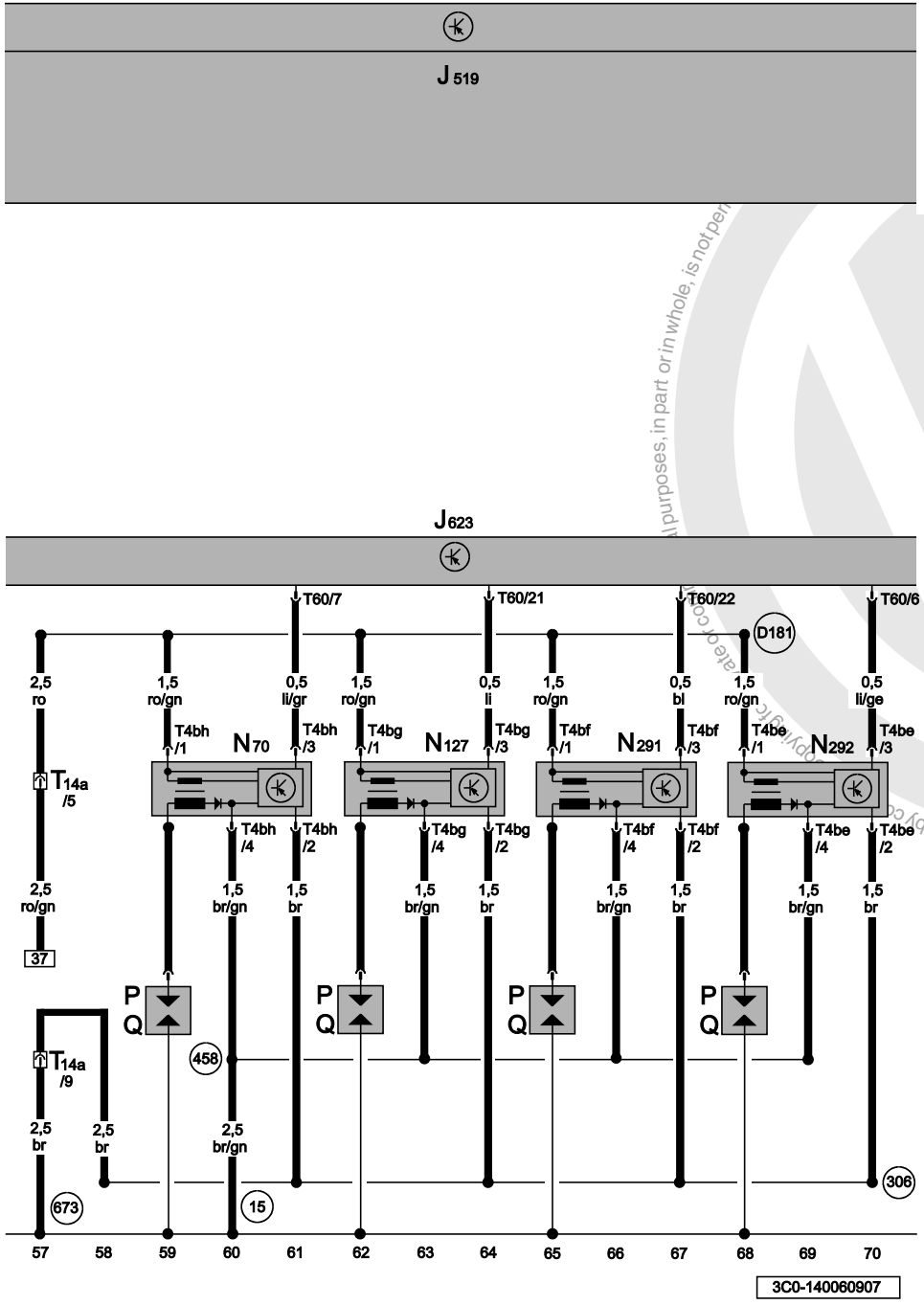
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Engine control unit, fuses SB

J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
T40	40-pin connector
T94	94-pin connector
391	Earth connection 26, in main wiring harness
645	Earth point 1, on bulkhead
B358	Connection 9 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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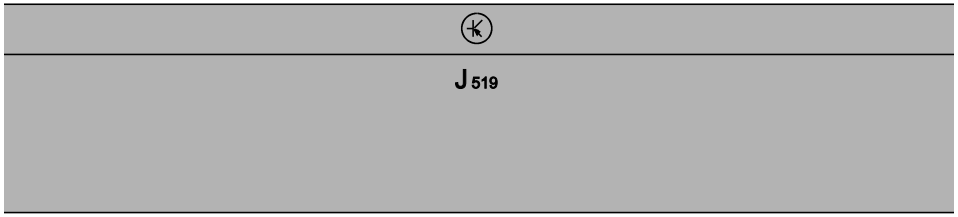


Engine control unit, ignition coils 1-4 with output stage, spark plugs, spark plug connectors

J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4be	4-pin connector
T4bf	4-pin connector
T4bg	4-pin connector
T4bh	4-pin connector
T14a	14-pin connector, black, coupling point 1, on left in engine compartment
T60	60-pin connector
15	Earth point, on cylinder head
306	Earth connection (ignition coils), in engine prewiring harness
458	Earth point 3, engine prewiring harness
673	Earth point 3, on front of left longitudinal member
D181	Connection 2 (87a), in engine compartment wiring harness

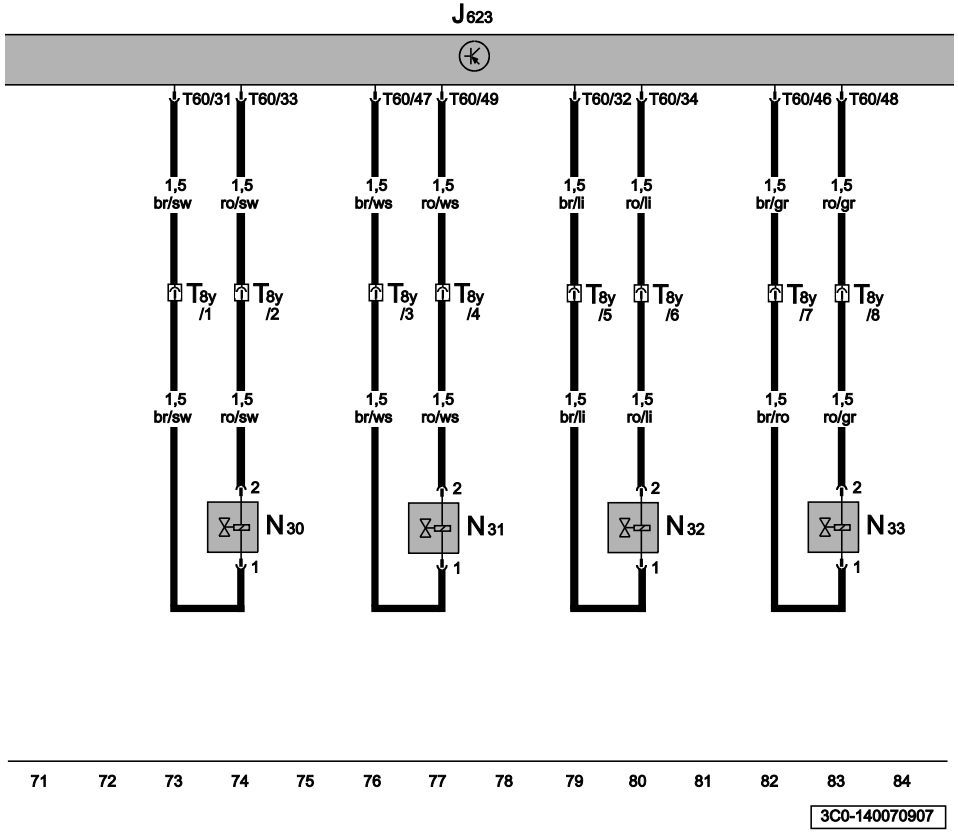
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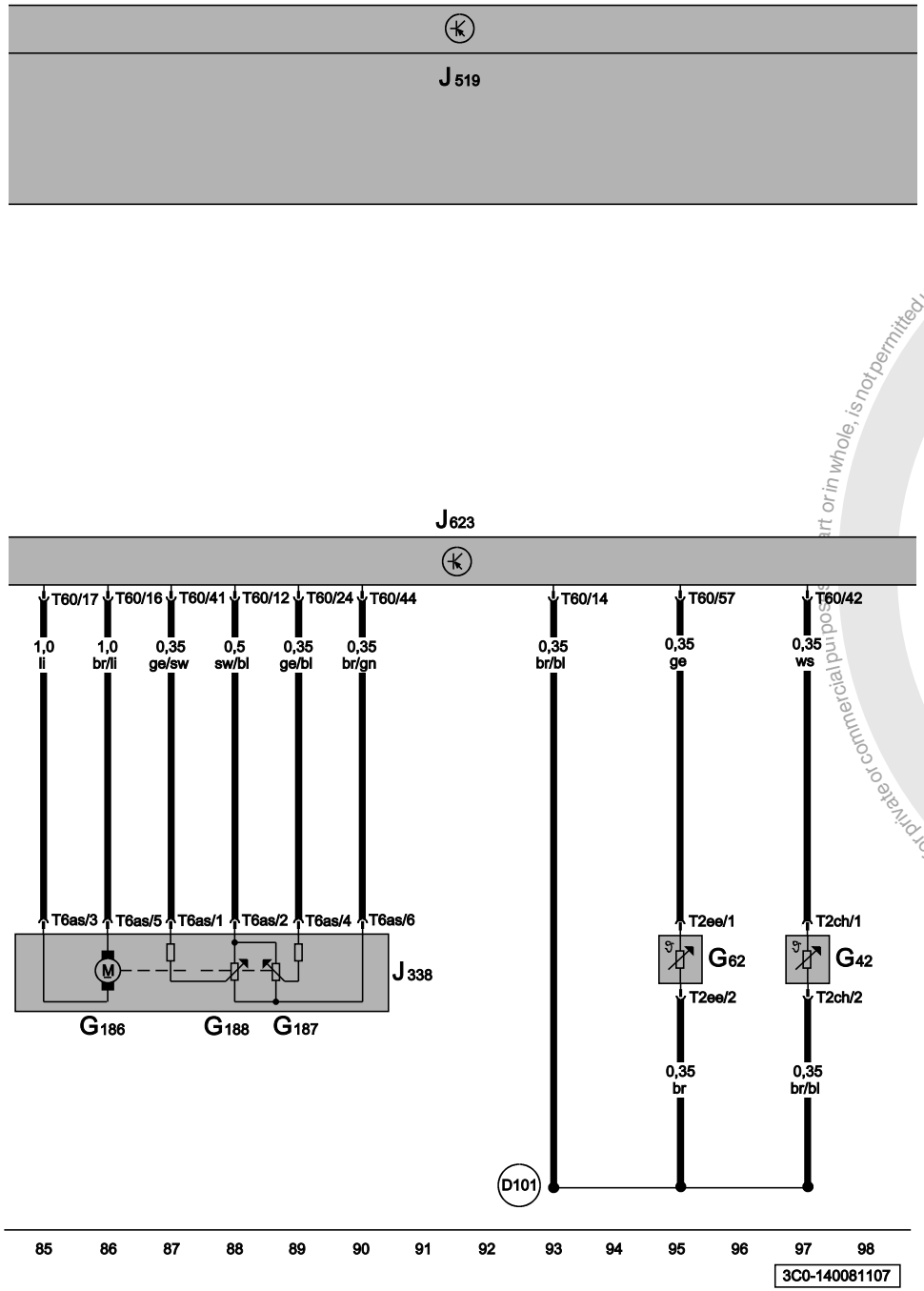
Engine control unit, injectors for cylinders 1-4

J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8y	8-pin connector, black, near cylinder head
T60	60-pin connector



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sw = black
ro = red
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li = purple
ge = yellow
or = orange
rs = pink

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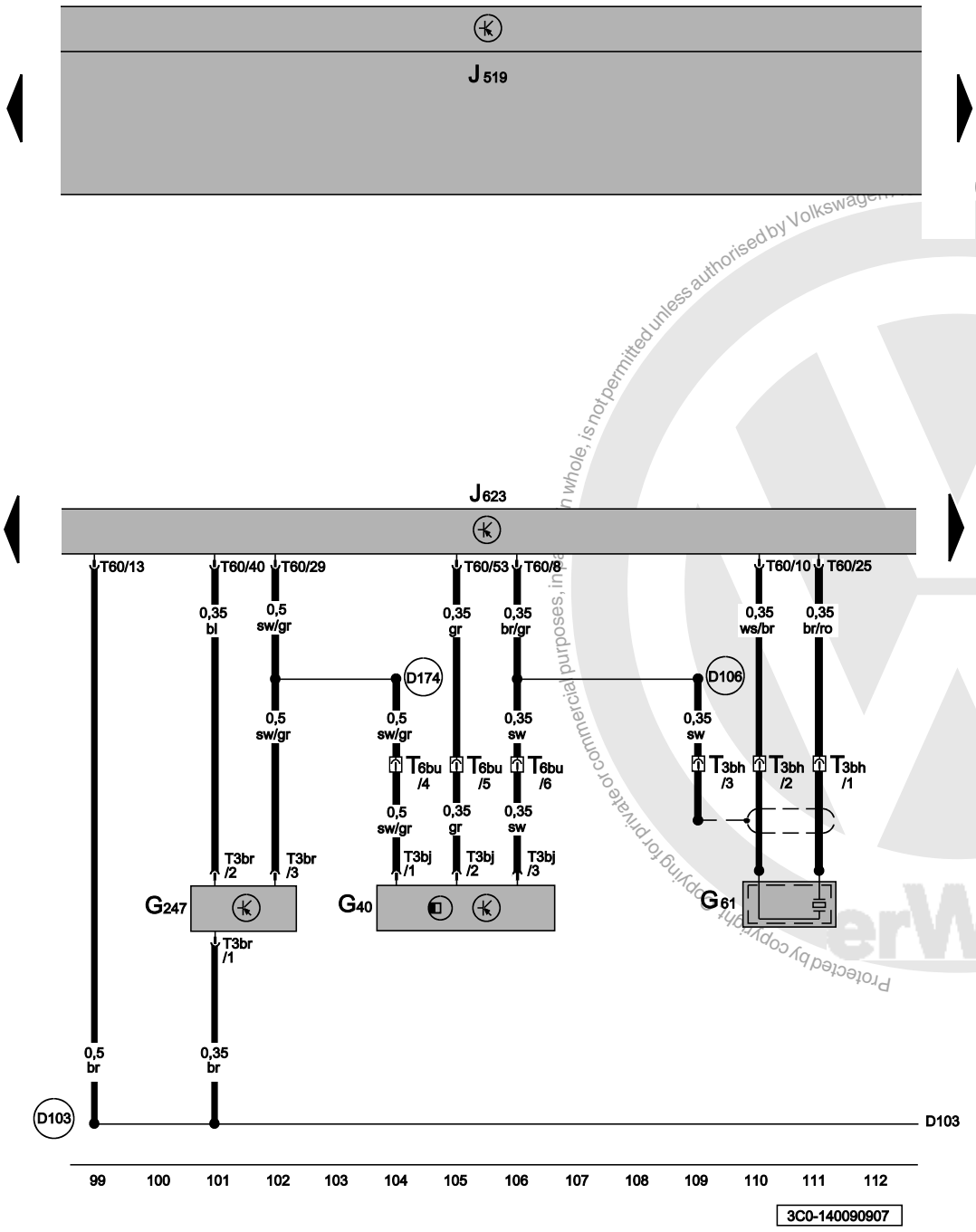


Engine control unit, throttle valve module, coolant temperature sender, intake air temperature sender 2

G42	Intake air temperature sender
G62	Coolant temperature sender
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
T2ch	2-pin connector
T2ee	2-pin connector
T6as	6-pin connector
T60	60-pin connector
D101	Connection 1, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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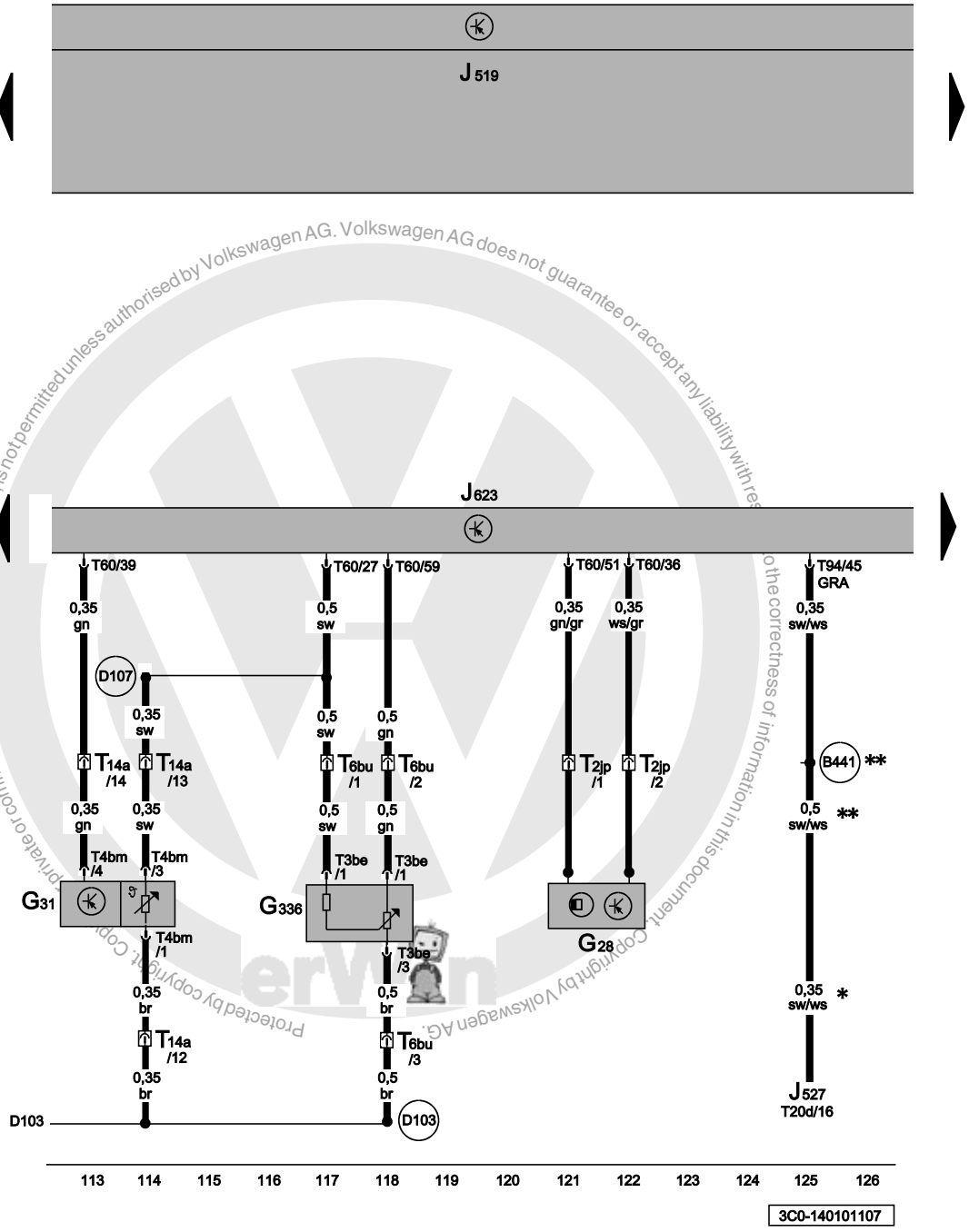


Engine control unit, Hall sender, knock sensor 1, fuel pressure sender

G40	Hall sender
G61	Knock sensor 1
G247	Fuel pressure sender
J519	Onboard supply control unit
J623	Engine control unit
T3bh	3-pin connector
T3bj	3-pin connector
T3br	3-pin connector
T6bu	6-pin connector, near cylinder head
T60	60-pin connector
D103	Connection 3, in engine compartment wiring harness
D106	Connection 4, in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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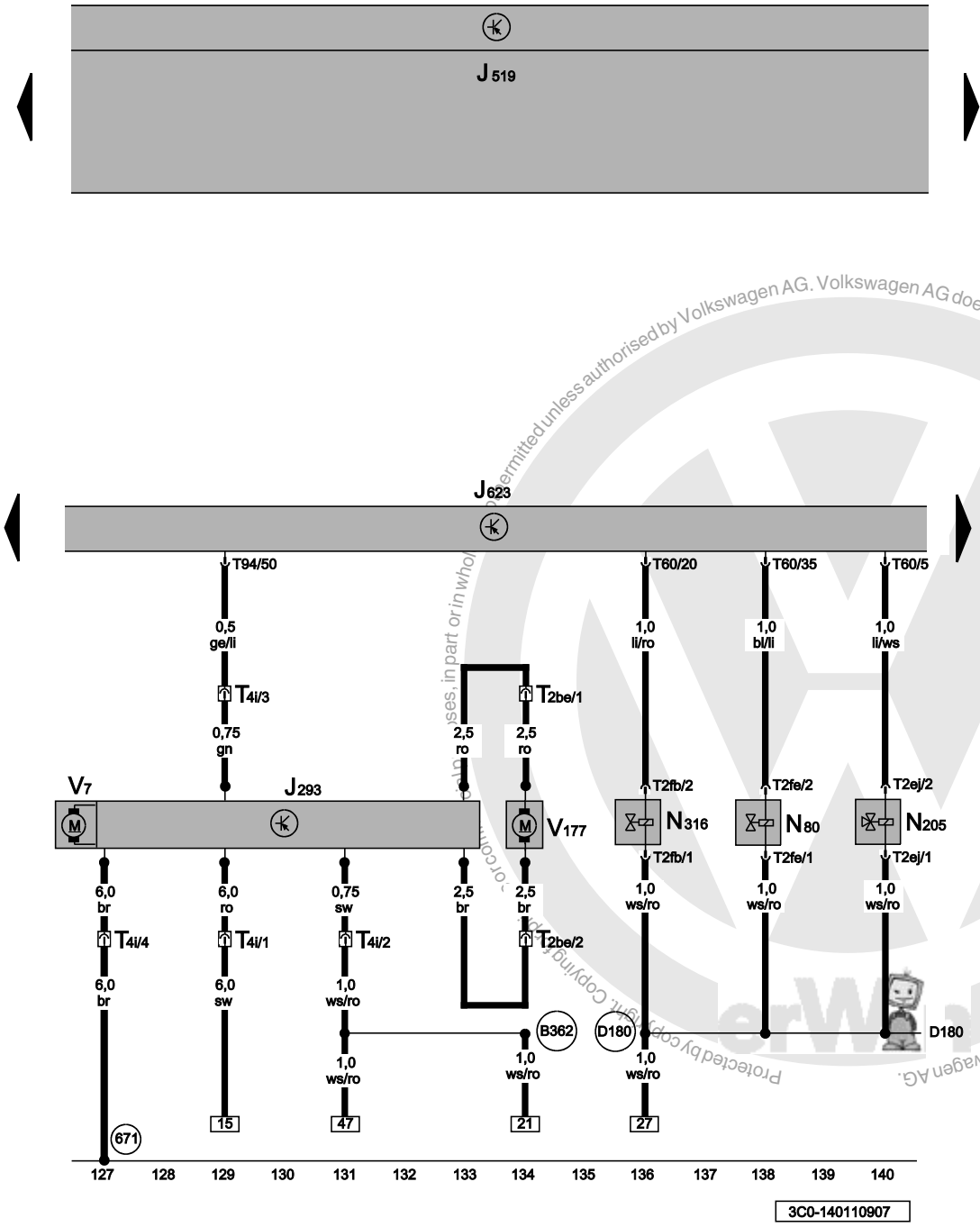


Engine speed sender, charge air pressure sender, intake air temperature sender, intake manifold flap potentiometer, control unit for steering column electronics

G28	Engine speed sender
G31	Charge air pressure sender
G336	Intake manifold flap potentiometer
J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
T2jp	2-pin connector
T3be	3-pin connector
T4bm	4-pin connector
T6bu	6-pin connector, near cylinder head
T14a	14-pin connector, coupling point 1, on left in engine compartment
T20d	20-pin connector
T60	60-pin connector
T94	94-pin connector
B441	Connection (CCS), in main wiring harness
D103	Connection 3, in engine compartment wiring harness
D107	Connection 5, in engine compartment wiring harness
*	Only vehicles with CCS
**	Only vehicles with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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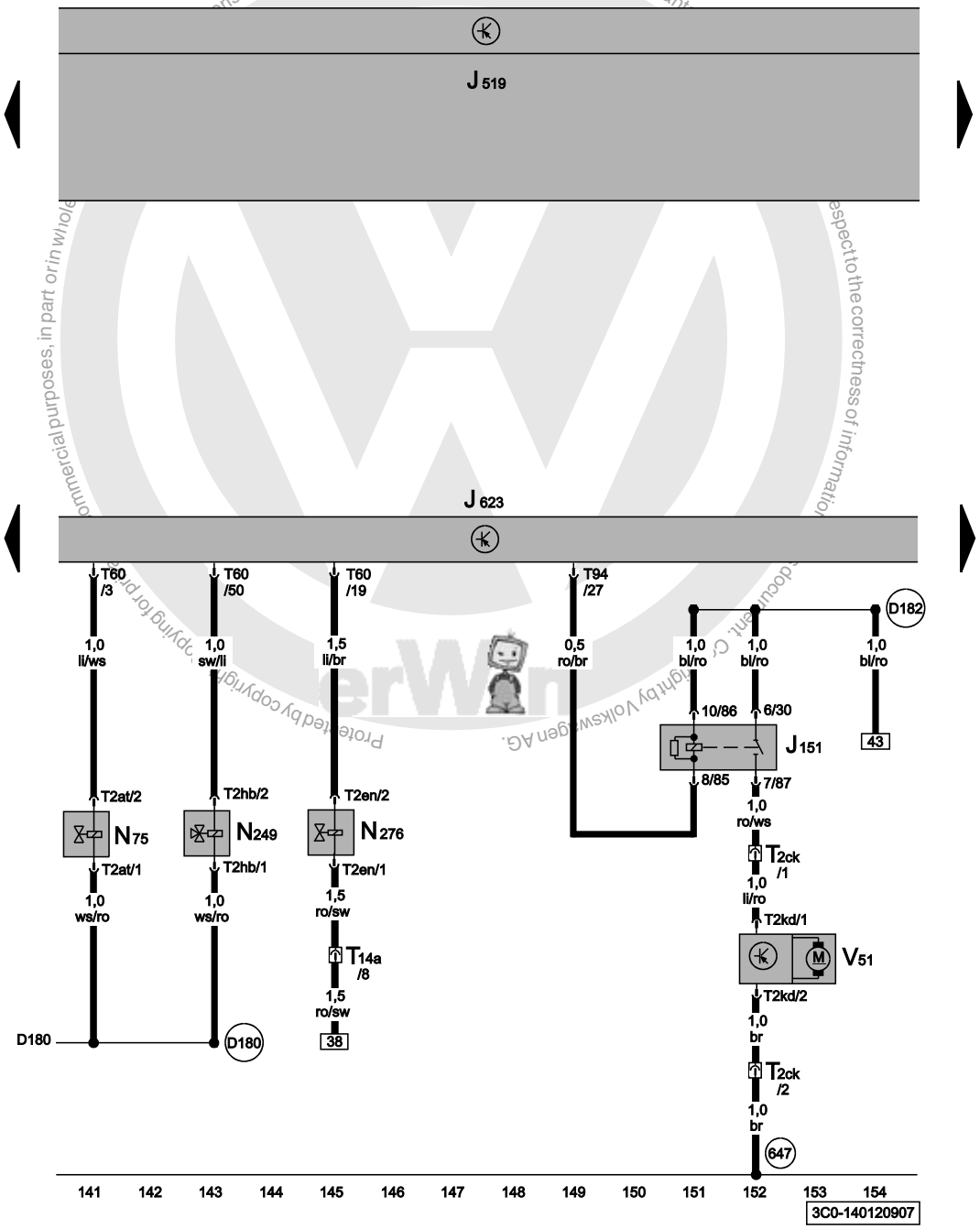


Engine control unit, radiator fan control unit, activated charcoal filter system solenoid valve 1, camshaft adjustment control valve 1, variable intake manifold changeover valve

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N316	Intake manifold flap valve
T2be	2-pin connector, on lock carrier
T2fb	2-pin connector
T2fe	2-pin connector
T2ej	2-pin connector
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B362	Connection 13 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

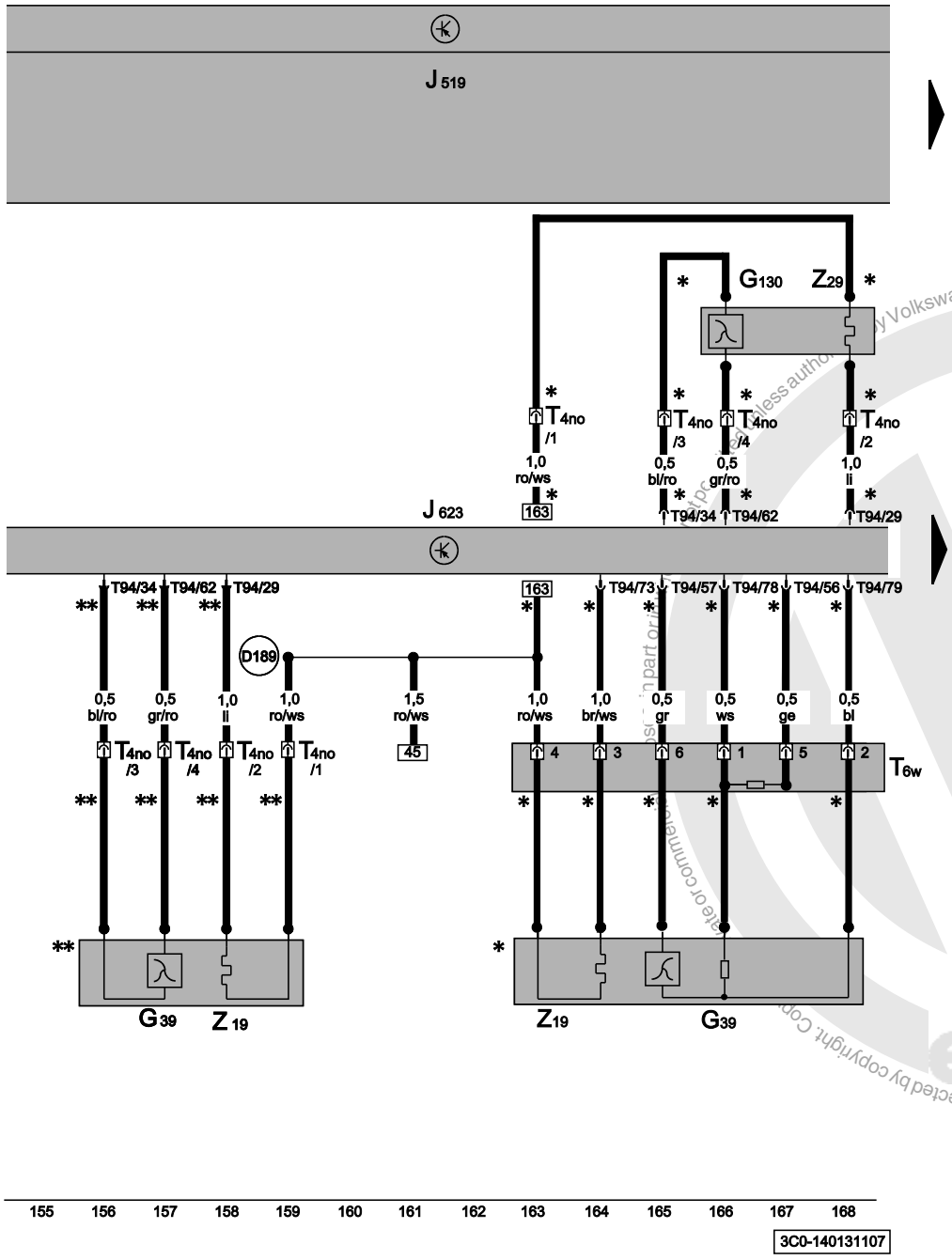
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Engine control unit, charge pressure control solenoid valve, fuel pressure regulating valve, turbocharger air recirculation valve, continued coolant circulation relay, continued coolant circulation pump

J151	Continued coolant circulation relay
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N249	Turbocharger air recirculation valve
N276	Fuel pressure regulating valve
T2at	2-pin connector
T2ck	2-pin connector
T2en	2-pin connector
T2hb	2-pin connector
T2kd	2-pin connector
T14a	14-pin connector, coupling point 1, on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V51	Continued coolant circulation pump
647	Earth point 3, on bulkhead
D180	Connection (87a), in engine compartment wiring harness
D182	Connection 3 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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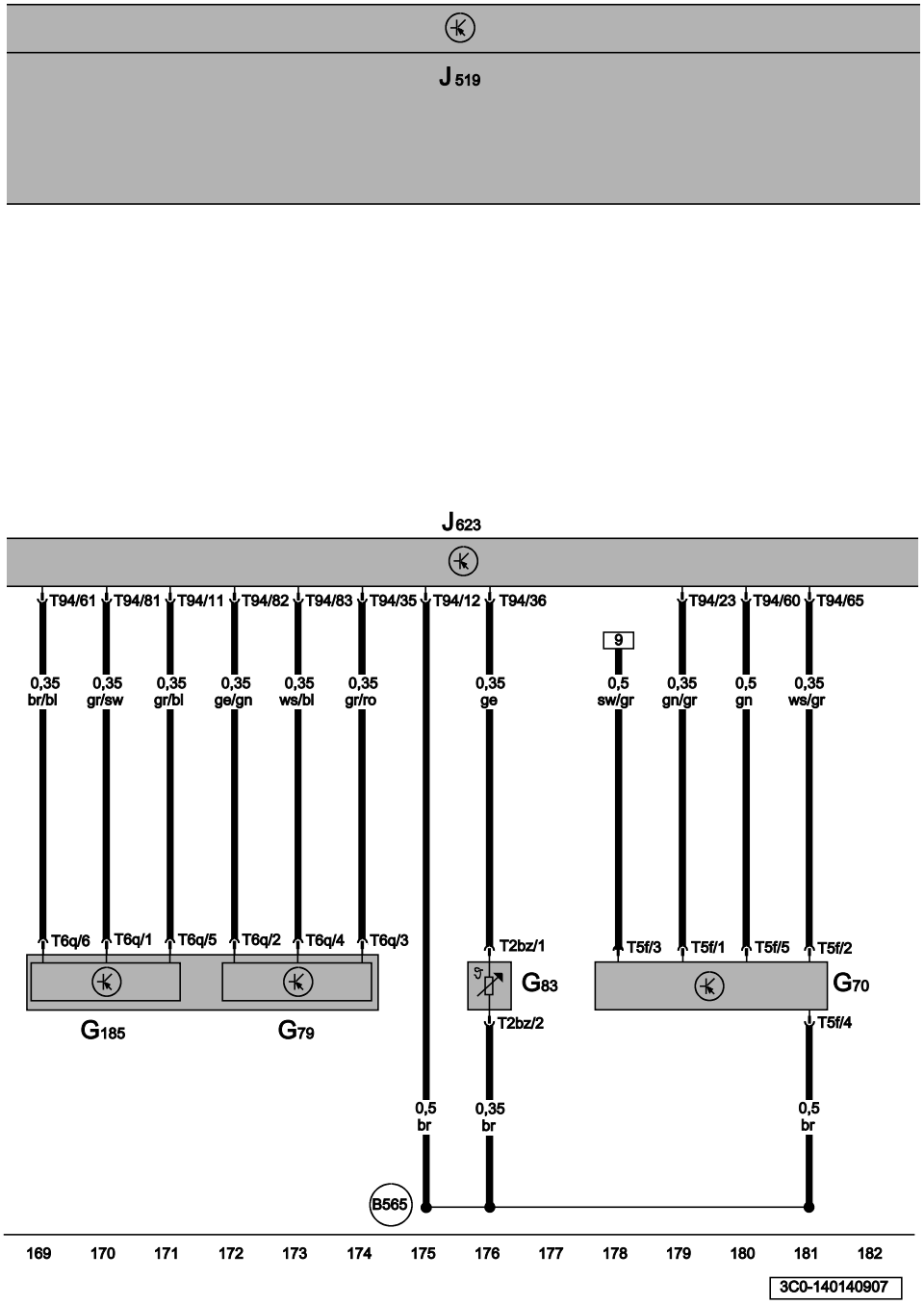


Engine control unit, Lambda probe, Lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J519	Onboard supply control unit
J623	Engine control unit
T4no	4-pin connector
T6w	4-pin connector
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D189	Connection (87a) in engine prewiring harness
*	Only engine code CCTA
**	Only engine code CAWB

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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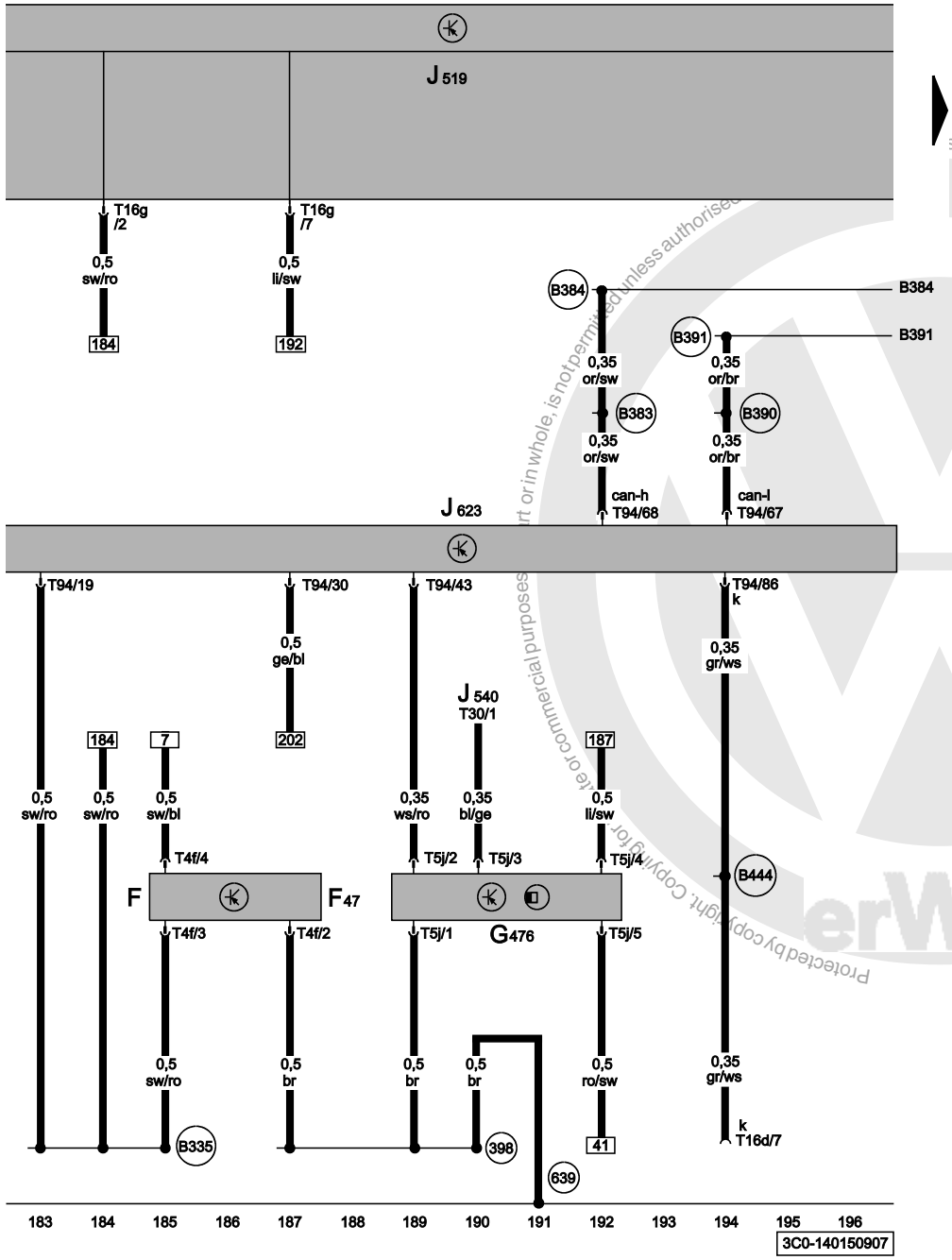


Engine control unit, air mass meter, accelerator position sender, radiator outlet coolant temperature sender, brake servo pressure sensor

G70	Air mass meter
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector
T5f	5-pin connector
T6q	6-pin connector
T94	94-pin connector
B565	Connection 32 in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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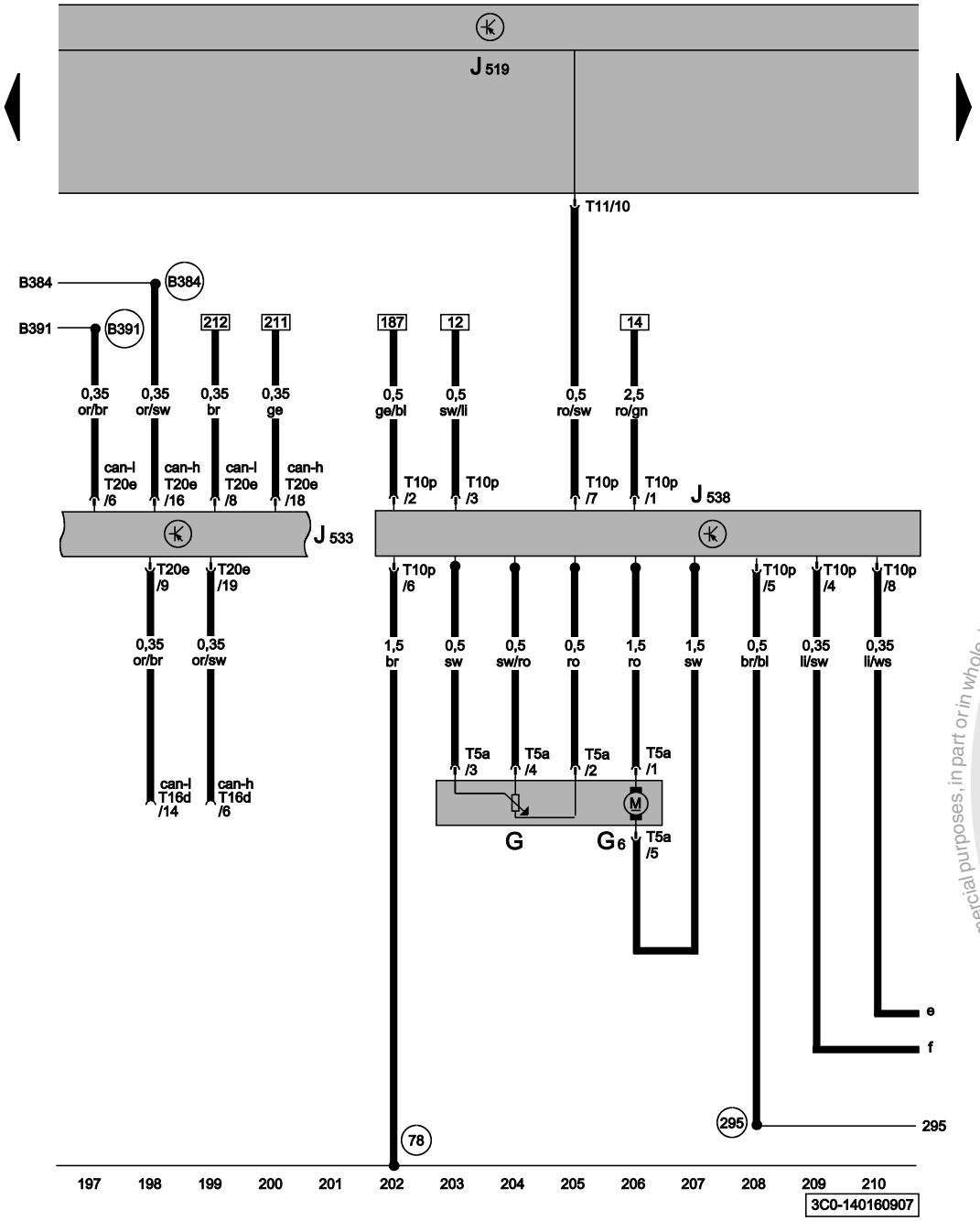


Engine control unit, clutch position sender, brake light switch, brake pedal switch, self-diagnosis connection

F	Brake light switch
F47	Brake pedal switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16d	16-pin connector, self-diagnosis connection
T16g	16-pin connector
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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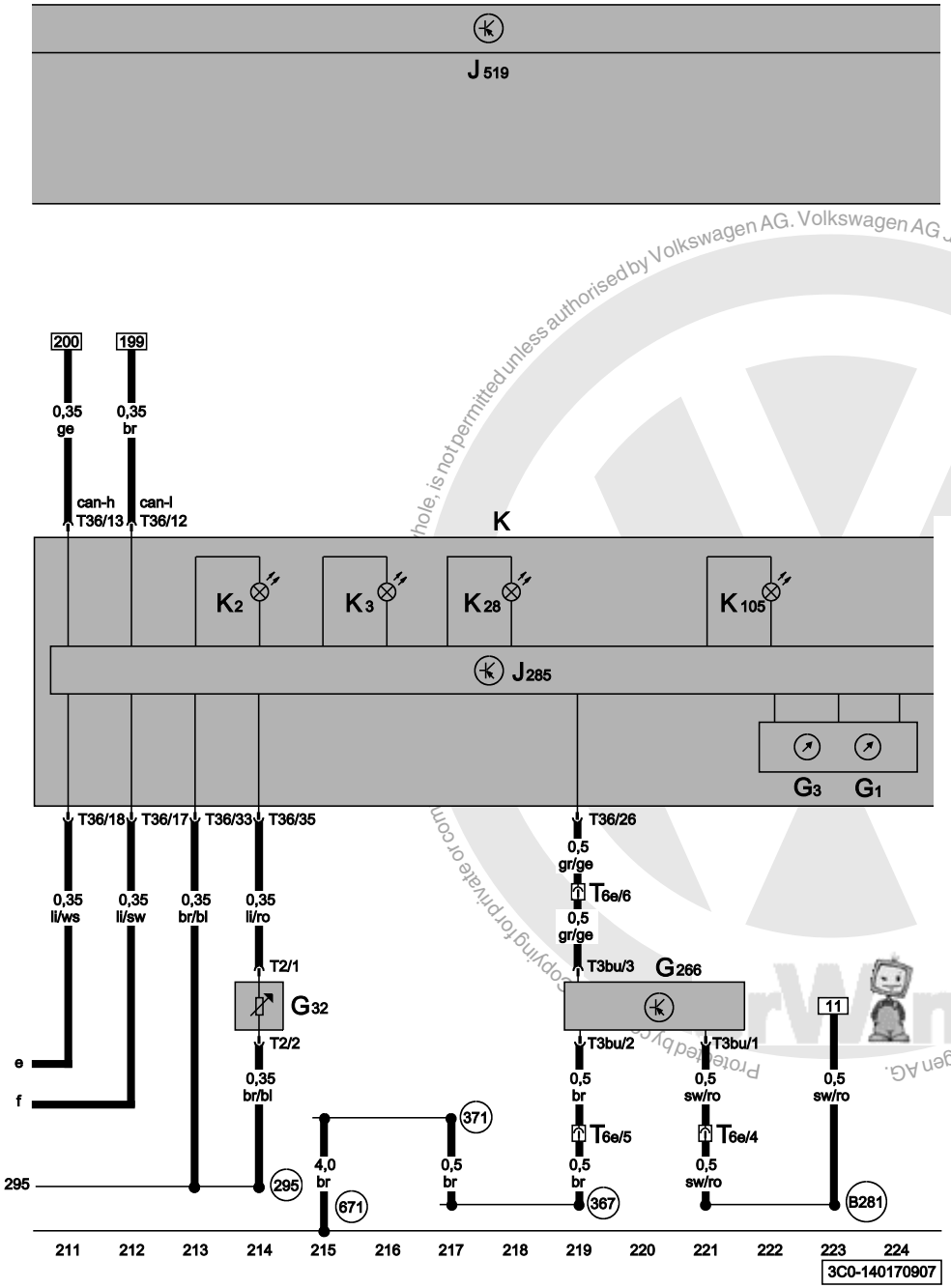


Data bus diagnosis interface, fuel pump control unit, fuel gauge sender

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J538	Fuel pump control unit
T5a	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

ws = white
sw = black
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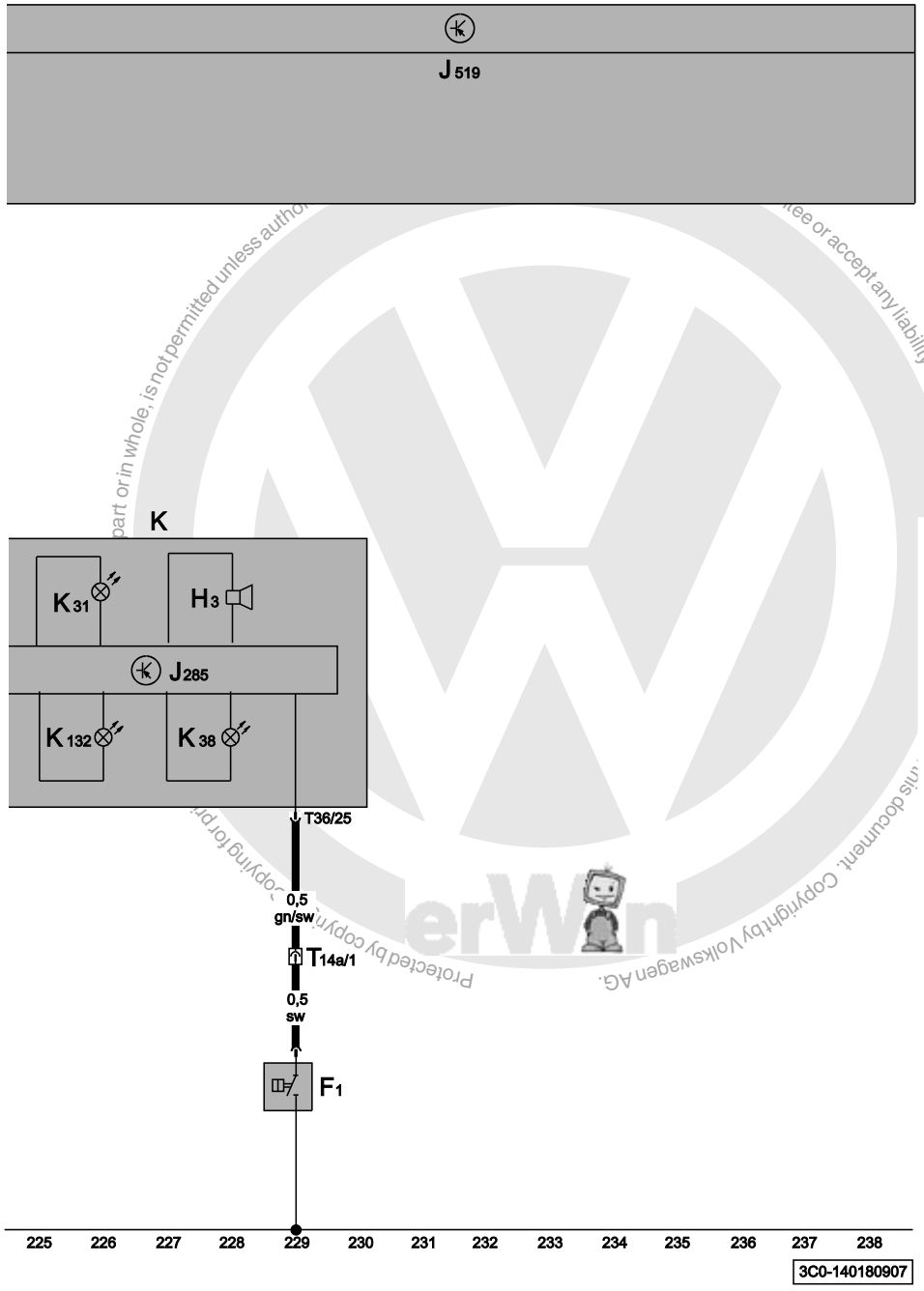


Dash panel insert, coolant shortage indicator sender, oil pressure switch, oil level and oil temperature sender

G1	Fuel gauge
G3	Coolant temperature gauge
G32	Coolant shortage indicator sender
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K105	Reserve fuel warning lamp
T2	2-pin connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering, in engine compartment
T36	36-pin connector
295	Earth connection 10, in interior wiring harness
367	Earth connection 2, in main wiring harness
371	Earth connection 6, in main wiring harness
671	Earth point 1, on front of left longitudinal member
B281	Connection 5 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Dash panel insert, oil pressure switch

F1	Oil pressure switch
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T14a	14-pin connector, coupling point 1, on left in engine compartment
T36	36-pin connector

ws	=	white
sw	=	black
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gn	=	green
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Multimedia socket MEDIA IN

From November 2007

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth points

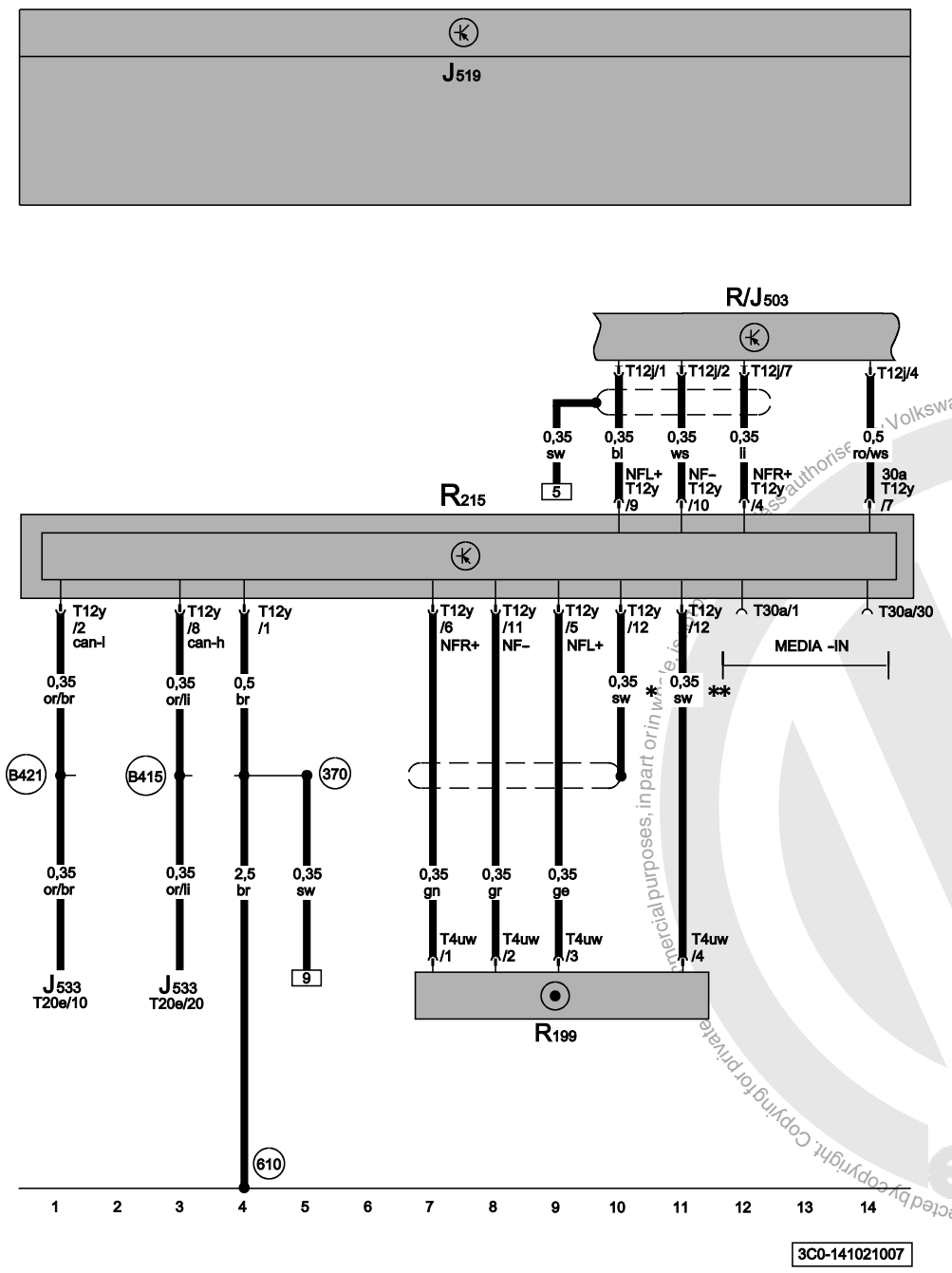
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Interface for external multimedia unit

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnostic interface
R	Radio
R199	Connection for external audio sources
R215	Interface for external multimedia unit
T4uw	4-pin connector
T12j	12-pin connector, blue
T12y	12-pin connector
T20e	20-pin connector
T30a	30-pin connector (preparation for connector socket for MEDIA IN)
370	Earth connection 5, in main wiring harness
610	Earth point (audio), front below centre console
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only models with no front centre armrest
**	Only models with front centre armrest

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Radio system: RCD 510, radio navigation system: RCD 510, CD changer, 4 loudspeakers, 8 loudspeakers, Volkswagen Sound

From November 2007

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

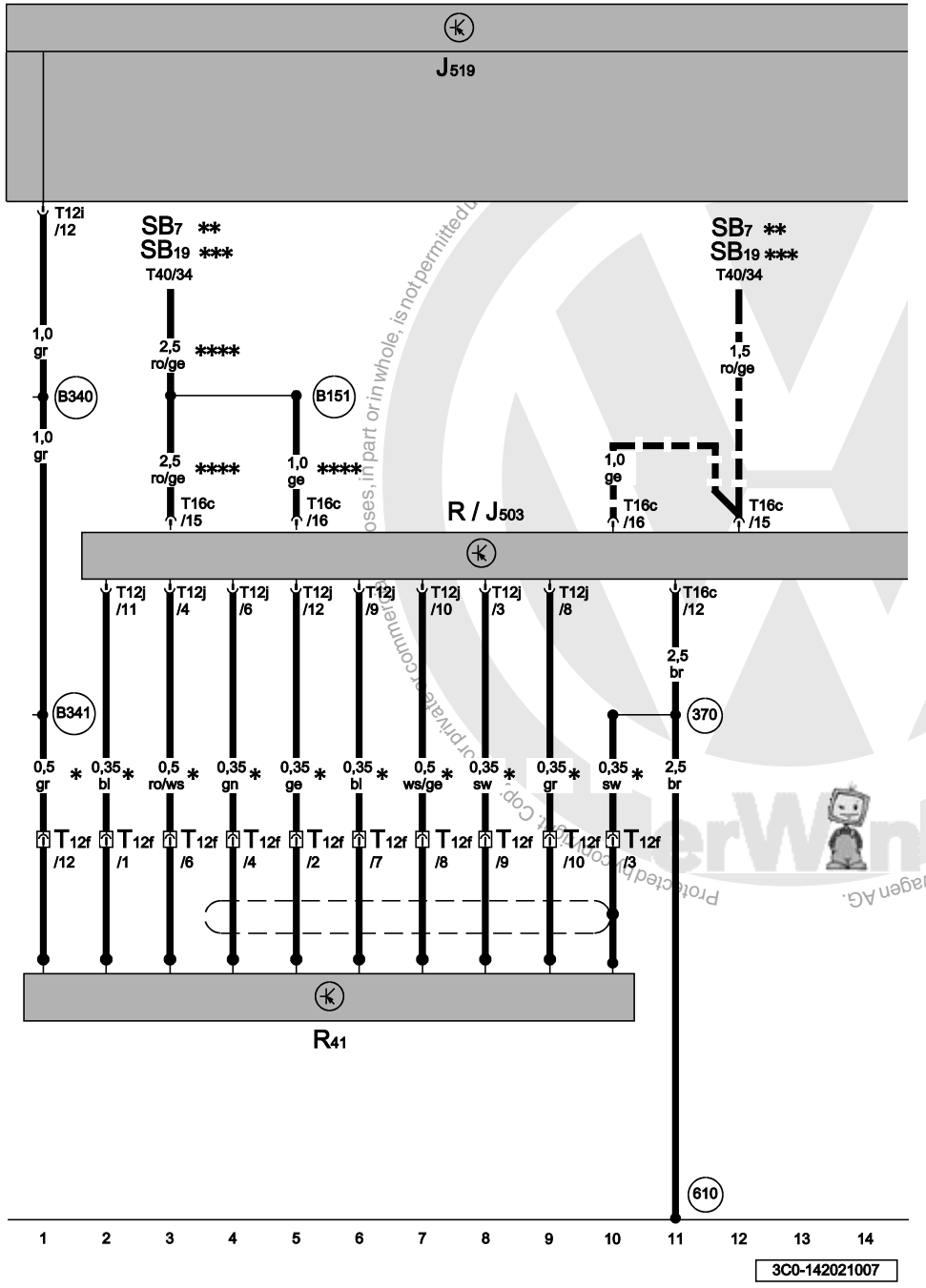
⇒ List of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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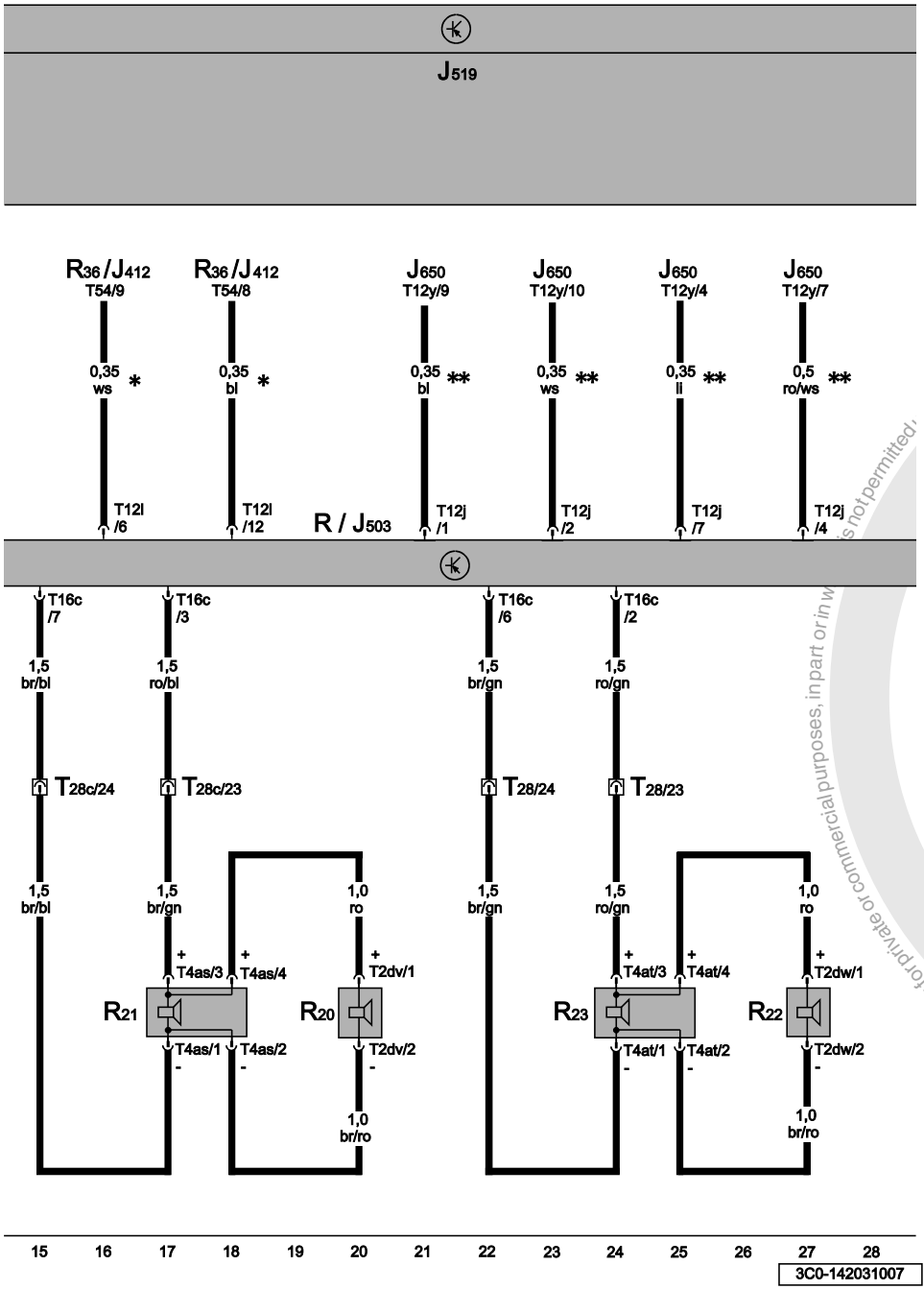


Voltage supply for radio, control unit with display for radio and navigation, CD changer

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R41	CD changer
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector
T16c	16-pin connector
T40	40-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), at front under centre console
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only on vehicles with CD changer preparation for external CD changer
**	Only on vehicles with E-box Low
***	Only on vehicles with E-box High
****	Only on vehicles with radio-navigation system
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/m_m.png" content-width="20pt" scaling="uniform"/>	Only on vehicles with radio system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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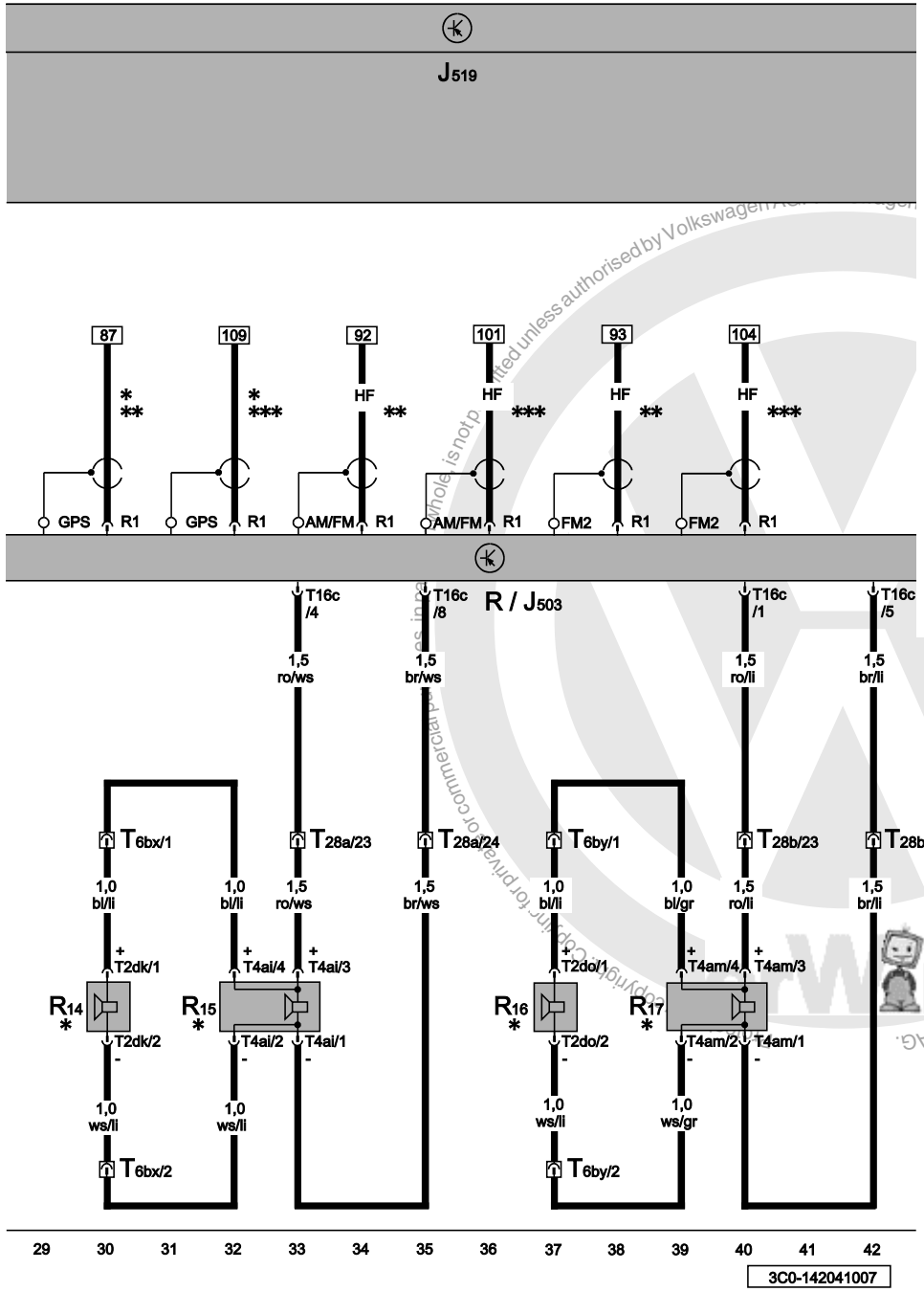


Radio/ control unit with display for radio and navigation system, front left and right treble loudspeaker and bass loudspeaker, telephone transmitter and receiver unit, multimedia system control unit

J412	Control unit for cellphone operating electronics
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J650	Multimedia control unit
R	Radio
R36	Telephone transmitter and receiver unit
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T12l	12-pin connector
T12j	12-pin connector, blue
T12y	12-pin connector
T16c	16-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T54	54-pin connector
*	Only on vehicles with telephone
**	Only on vehicles with multimedia socket MEDIA-IN (UF6)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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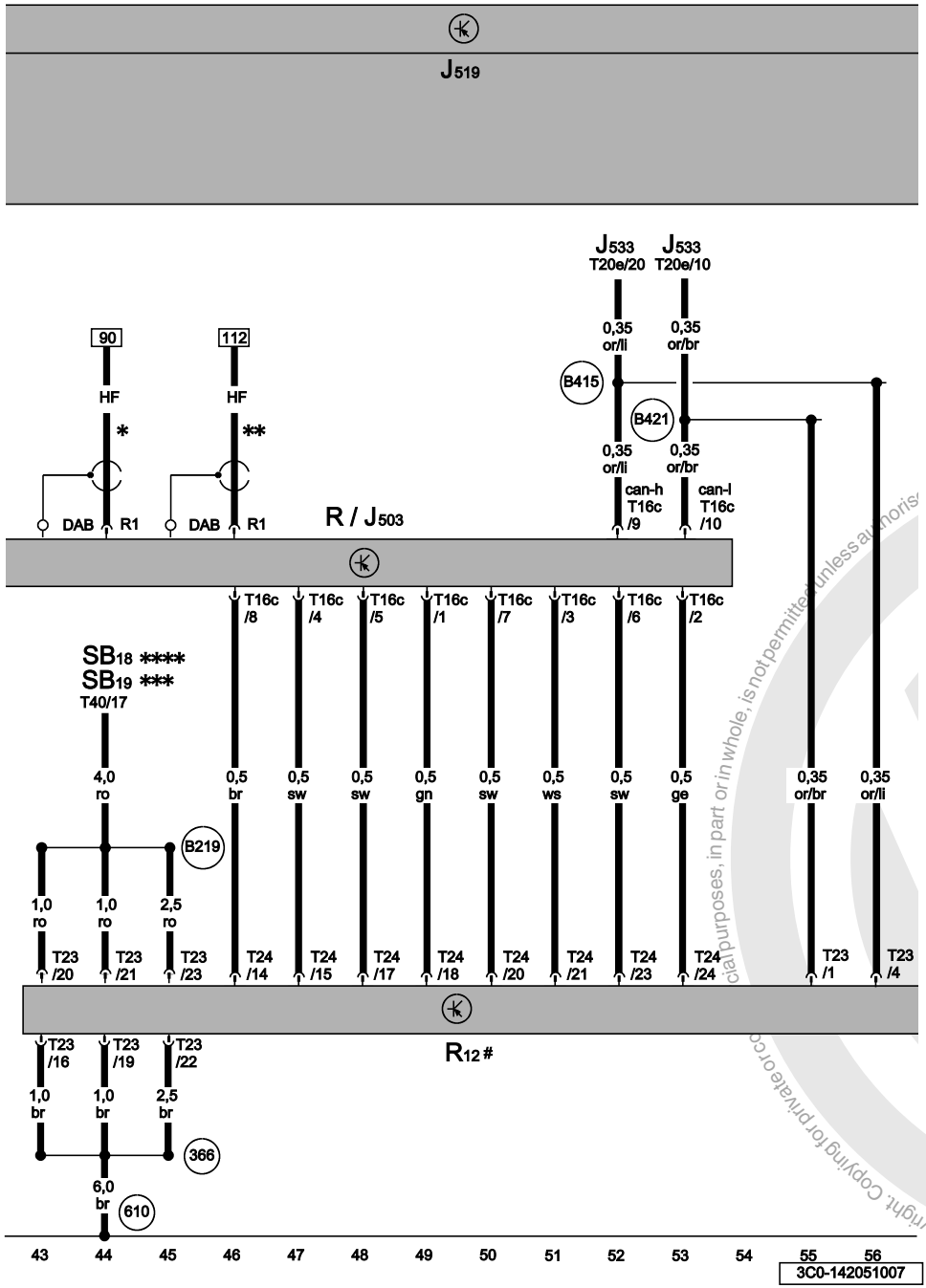


Radio/ control unit with display for radio and navigation, rear left and right treble loudspeaker and bass loudspeaker, aerial connection

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R1	Aerial connection
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T16c	16-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
*	Depends on equipment
**	Only on saloon models
***	Only on estate models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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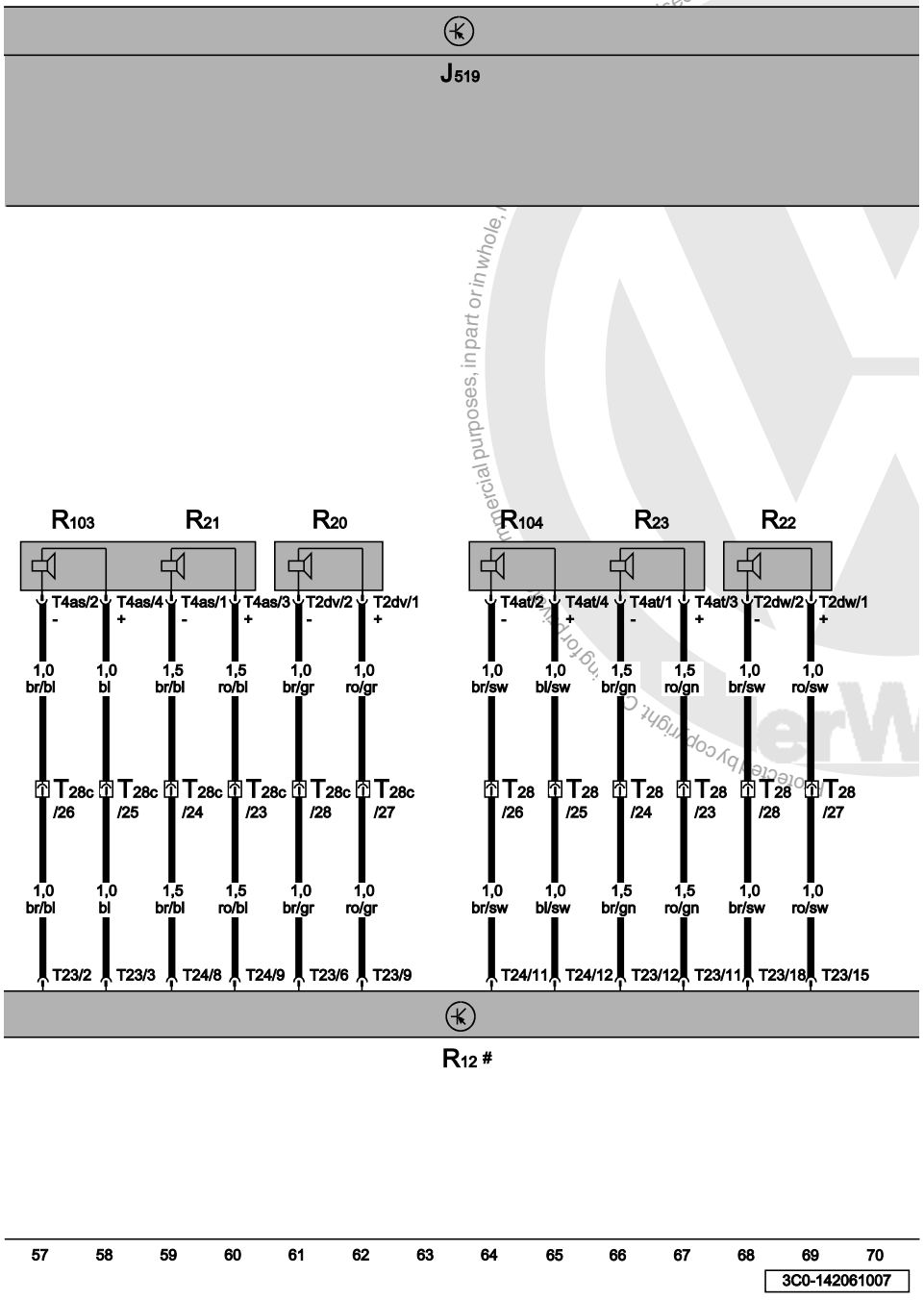


Voltage supply for amplifier, radio and control unit with display for radio and navigation, aerial connection

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnosis interface
R	Radio
R1	Aerial connection
R12	Amplifier
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T16c	16-pin connector
T20e	20-pin connector
T23	23-pin connector
T24	24-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
610	Earth point (audio), at front under centre console
B219	Positive connection 4 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only on saloon models
**	Only on estate models
***	Only on vehicles with E-box Low
****	Only on vehicles with E-box High
#	Only on vehicles with sound system (9VE, 9VG)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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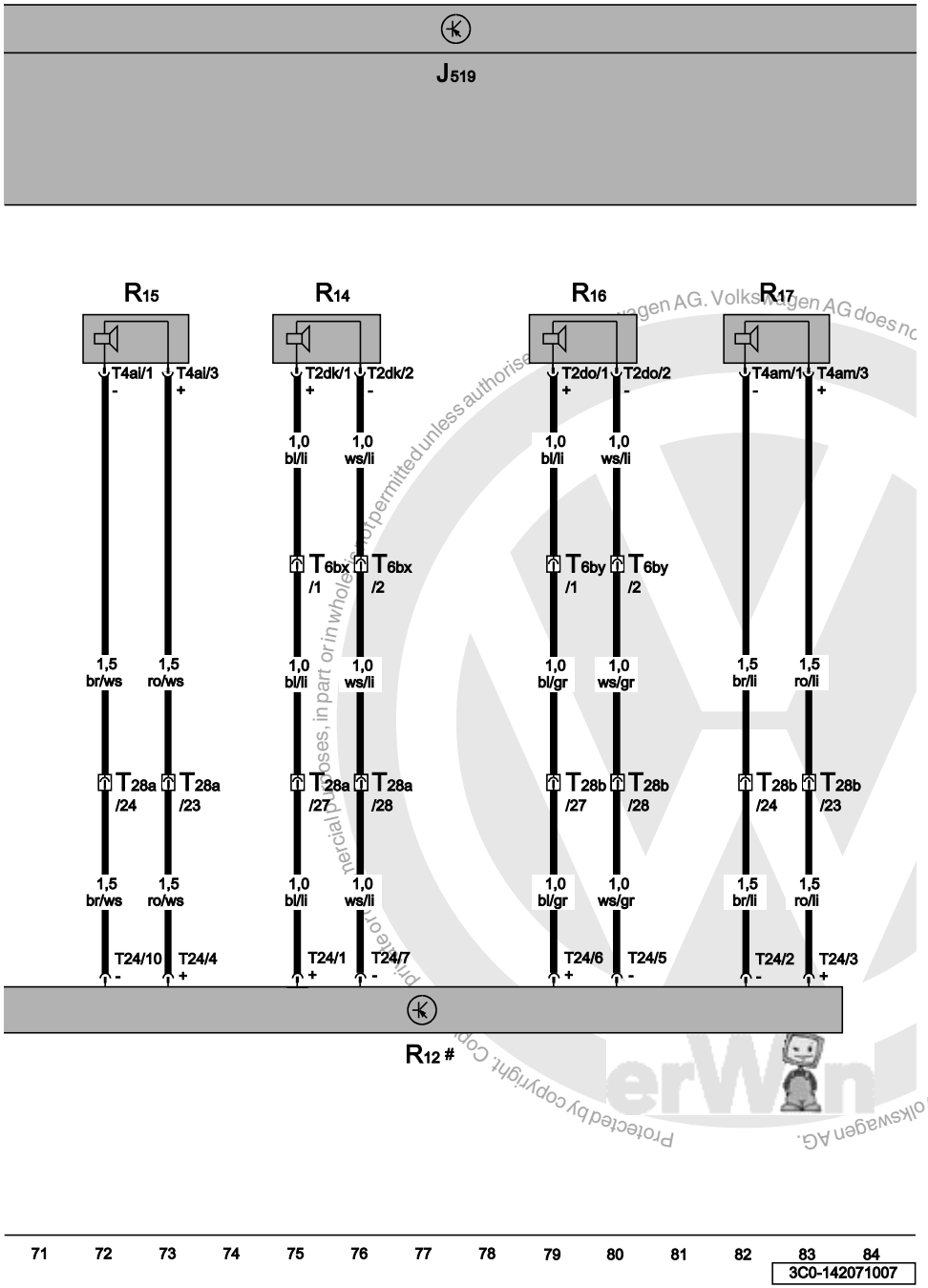


Front left and right treble, mid-range and bass loudspeakers, amplifier

J519	Onboard supply control unit
R12	Amplifier
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R103	Front left mid-range loudspeaker
R104	Front right mid-range loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T23	23-pin connector
T24	24-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
#	Only on vehicles with sound system (9VE, 9VG)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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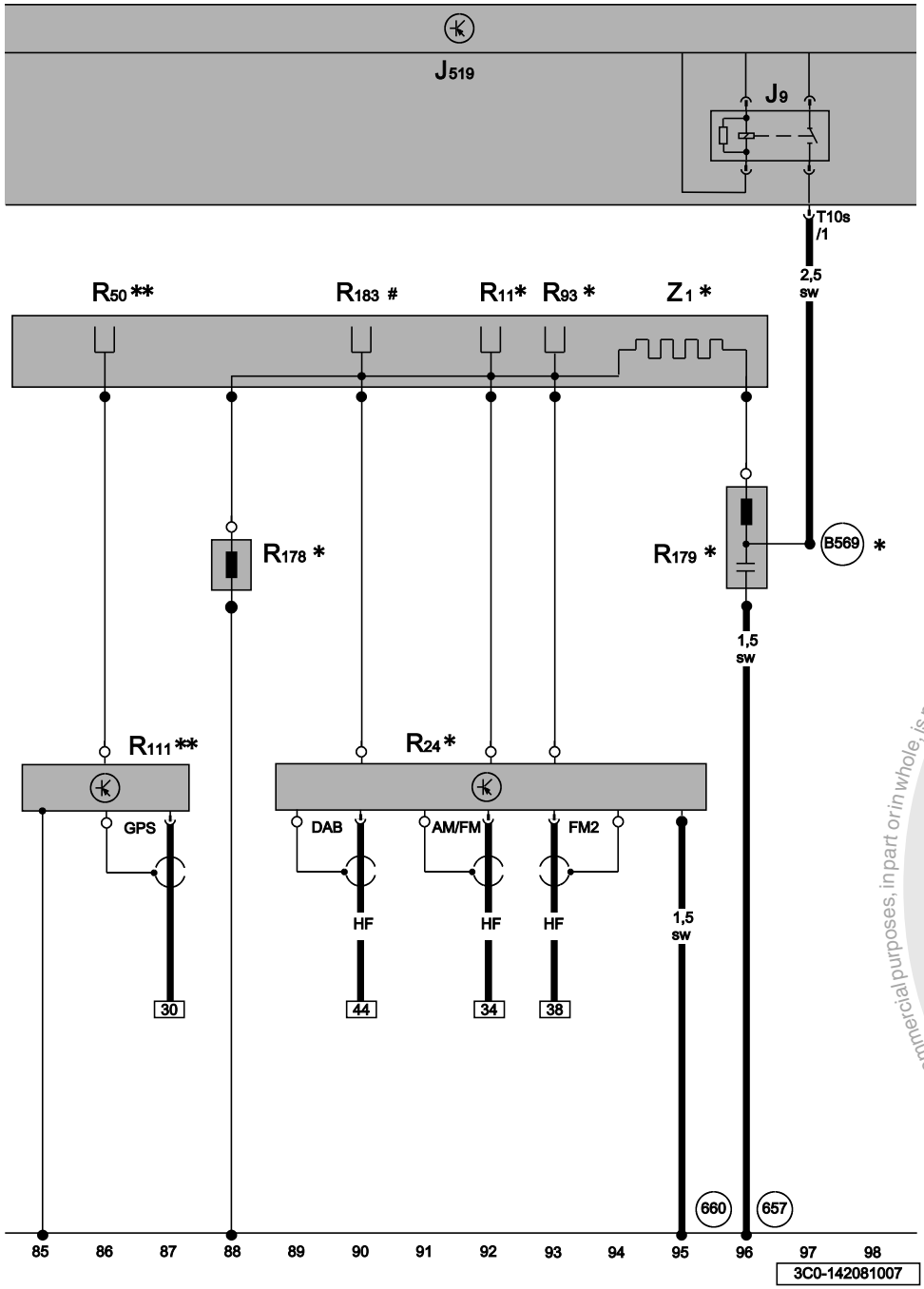


Bass loudspeaker and rear left and right treble loudspeaker, amplifier

J519	Onboard supply control unit
R12	Amplifier
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T24	24-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
#	Only on vehicles with sound system (9VE, 9VG)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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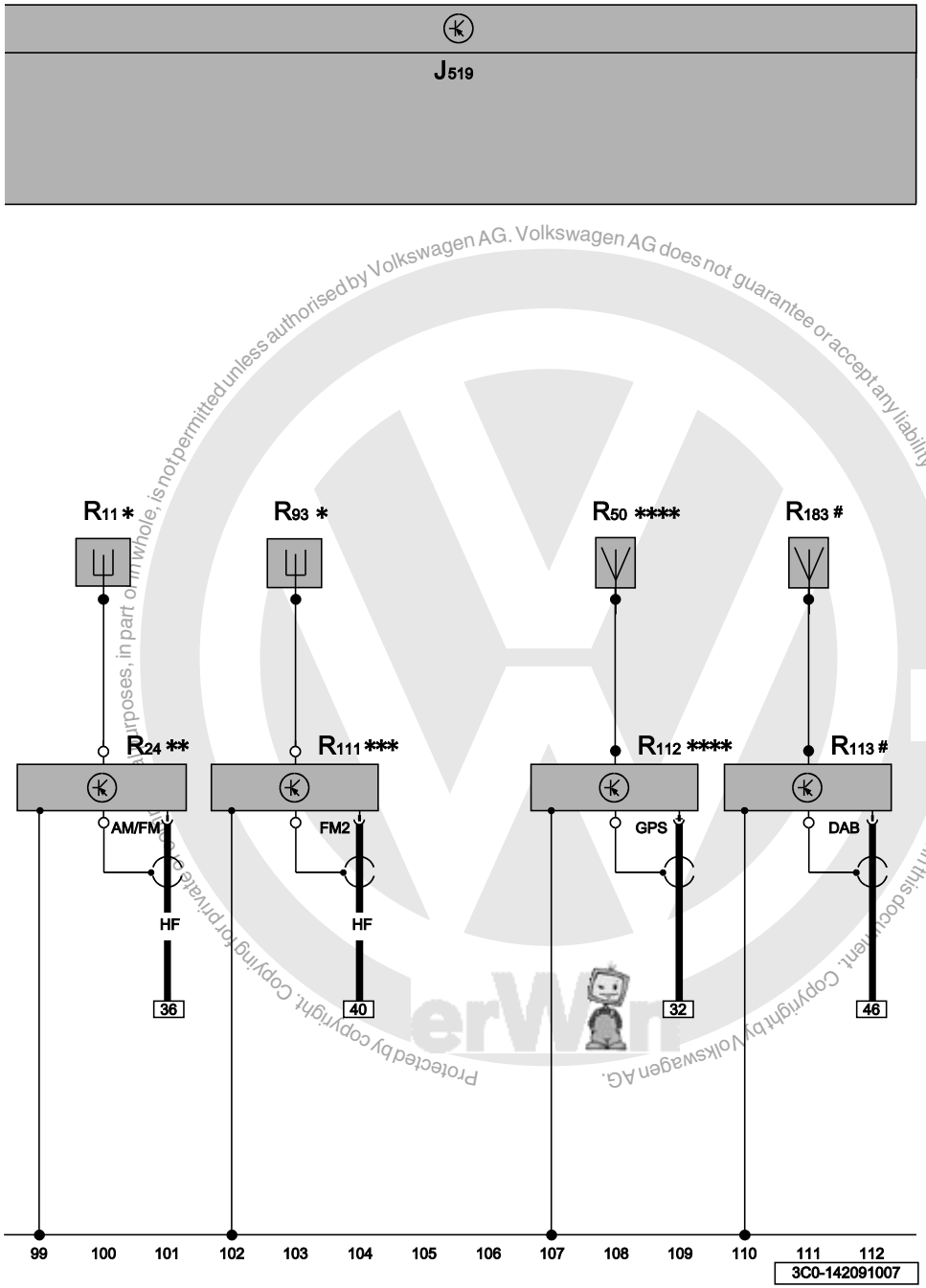


Aerials (saloon), aerial amplifier, frequency filter for frequency modulation

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
R183	Digital radio aerial
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36 in main wiring harness
*	Only on saloon models
**	Only saloon models with navigation system
#	Only on vehicles with sound system (9VE, 9VG)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Aerials (estate), aerial amplifier

J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
R113	Aerial amplifier 4
R183	Digital radio aerial
*	Only on estate models
**	Only on estate models, in left C-pillar
***	Only on estate models, in right C-pillar
****	Only estate models with navigation system
#	Only on vehicles with sound system (9VE, 9VG)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Multimedia system RSE (Rear Seat Entertainment) (9WP)

From November 2007

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

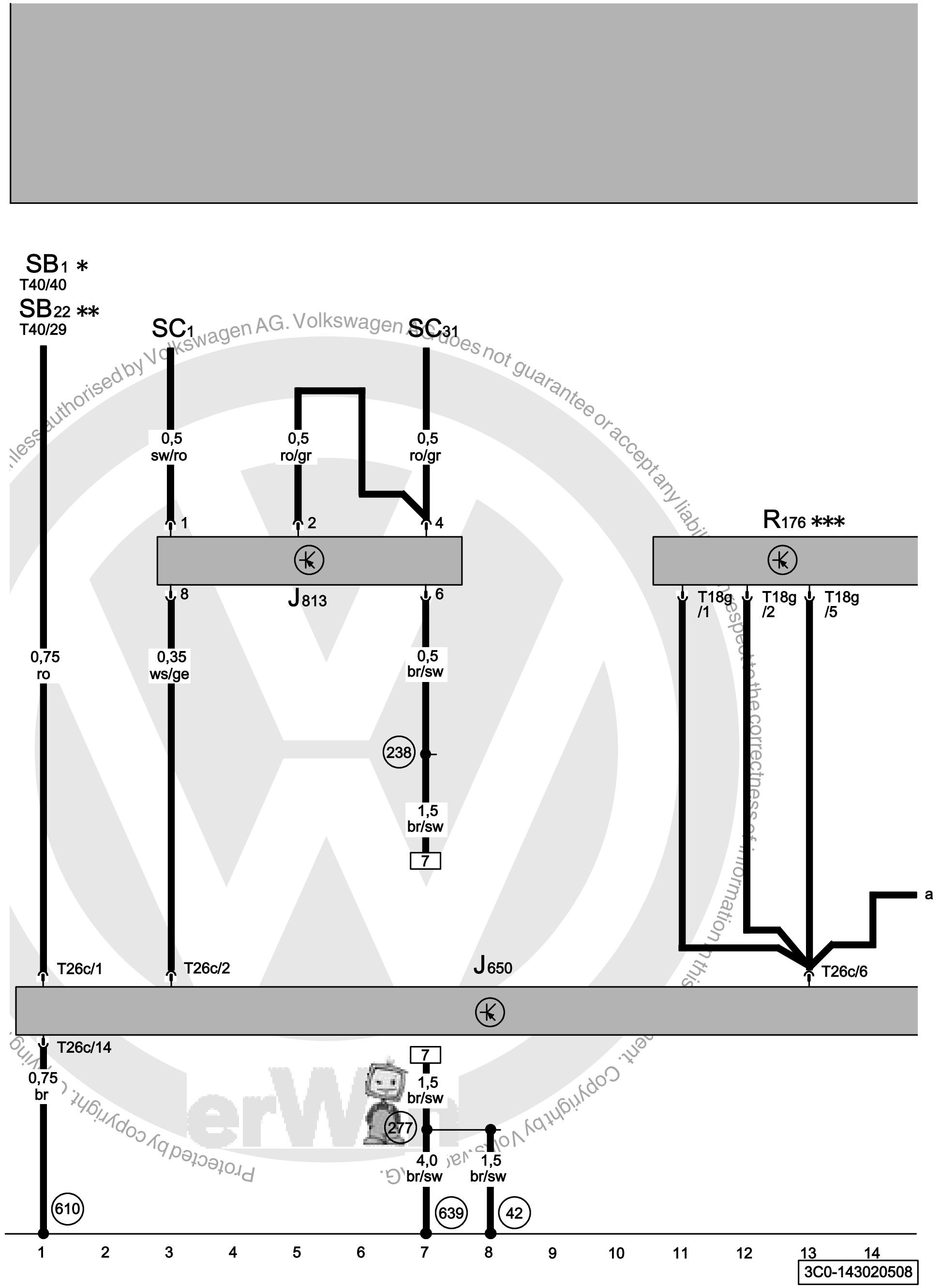
For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Multimedia system control unit, voltage monitoring relay, additional connections unit for audio and video

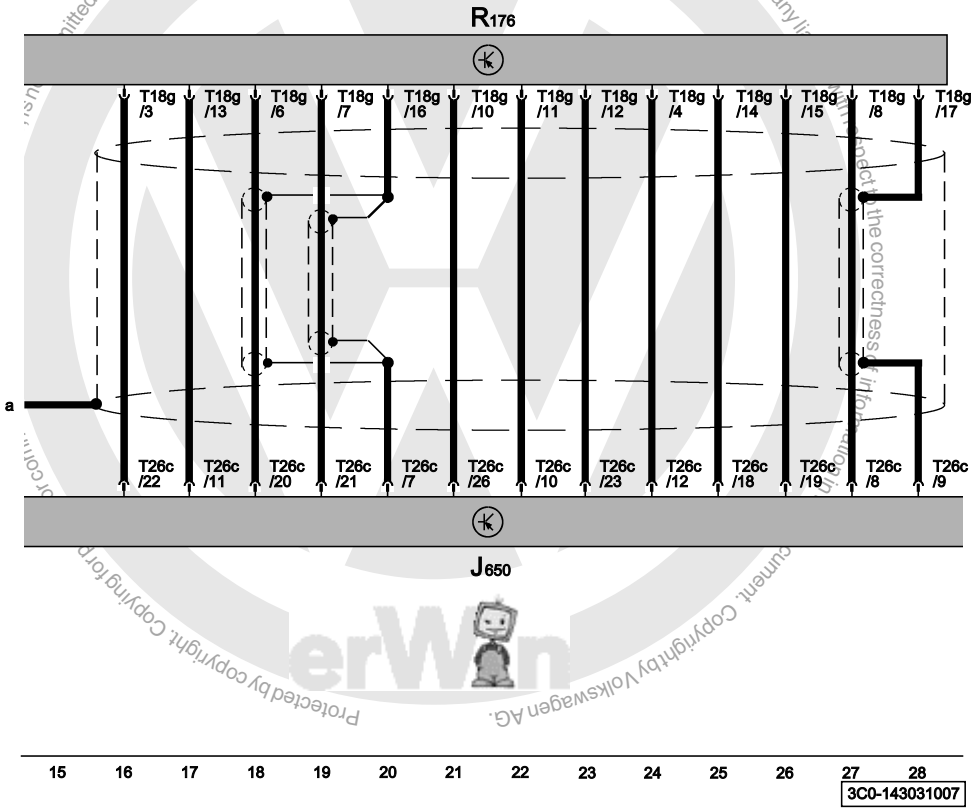


R176	Auxiliary connections for audio and video
J813	Voltage monitoring relay, on relay carrier 1 on left under dash panel
J650	Multimedia system control unit
SB1	Fuse 1 on fuse holder B
SB22	Fuse 22 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC31	Fuse 31 on fuse holder C
T18g	18-pin connector
T26c	26-pin connector
T40	40-pin connector
42	Earth point, next to steering column
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
610	Earth point (audio), at front under centre console
639	Earth point, left A-pillar
*	Only models with E-box Low
**	Only models with E-box High
***	in rear centre console

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

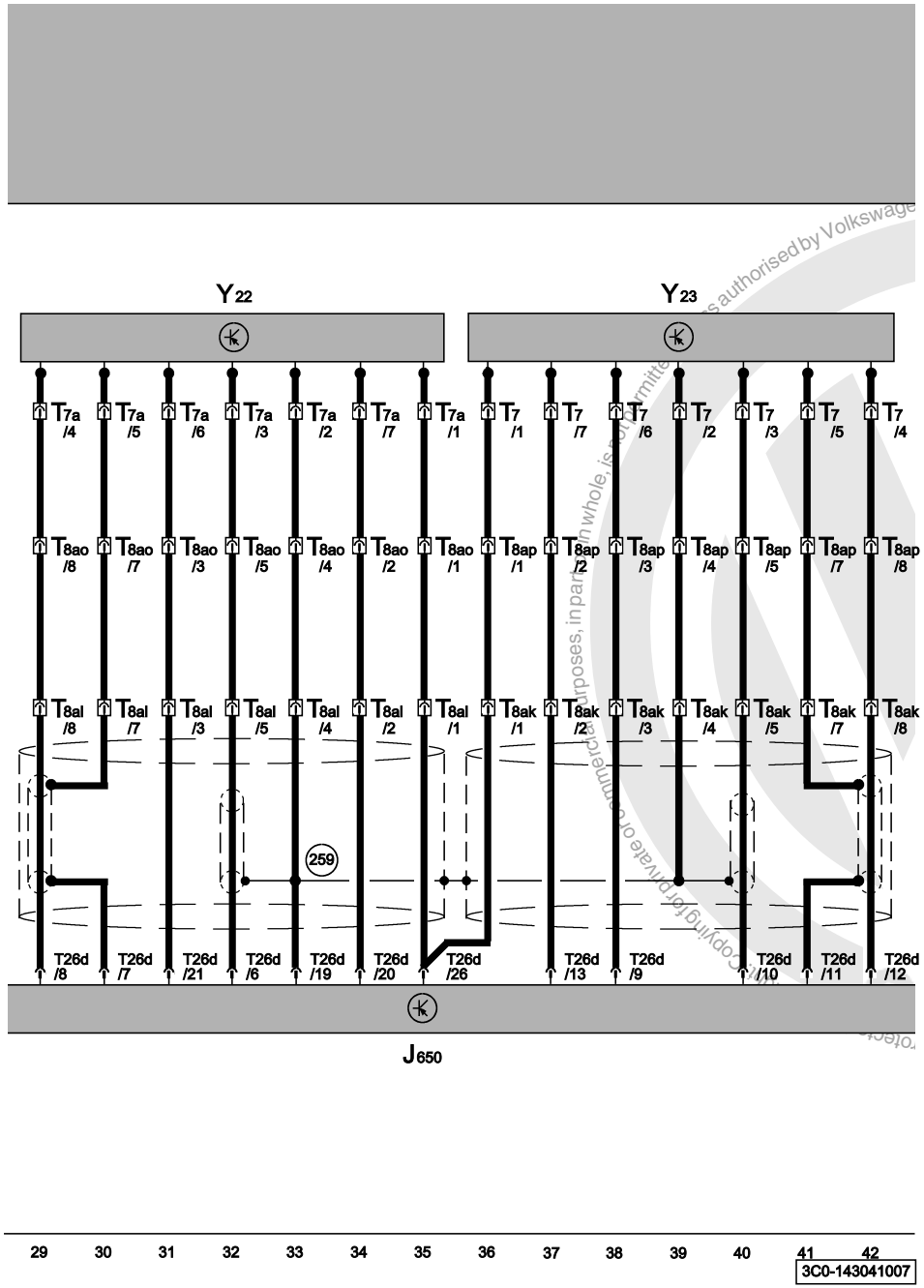
Multimedia system control unit, auxiliary connections for audio and video

R176 Auxiliary connections for audio and video, in rear centre console
J650 Multimedia system control unit
T18g 18-pin connector
T26c 26-pin connector



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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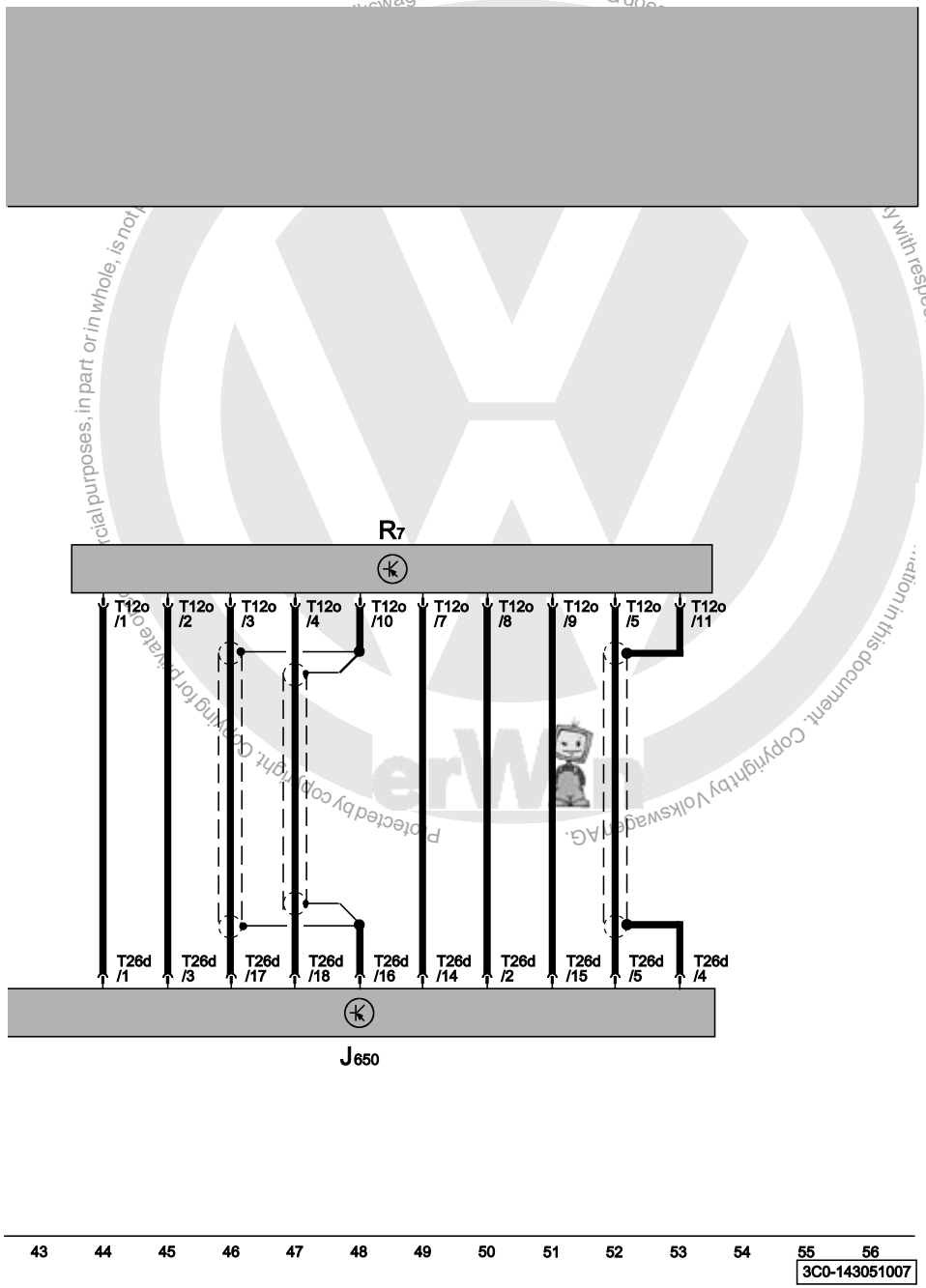


Multimedia display unit 1 and 2, multimedia control unit

J650	Multimedia system control unit
T7	7-pin connector, green, in backrest of front passenger seat
T7a	7-pin connector, green, in backrest of driver's seat
T8ak	8-pin connector, under front passenger seat
T8al	8-pin connector, under driver seat
T8ao	8-pin connector, coupling point for driver's seat backrest
T8ap	8-pin connector, coupling point for front passenger seat backrest
T26d	26-pin connector
Y22	Multimedia display unit 1
Y23	Multimedia display unit 2
(259)	Earth connection 2, in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Multimedia system control unit, DVD player

J650	Multimedia system control unit
R7	DVD player
T12o	12-pin connector
T26d	26-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Radio-navigation system RNS 510 with TV (Japan)

⇒ **Variant models**
⇒ **CD changer**
⇒ **VICS beacon aerial**
⇒ **ETC module**
⇒ **8 loudspeakers**
⇒ **Volkswagen Sound**

From February 2008

Notes:

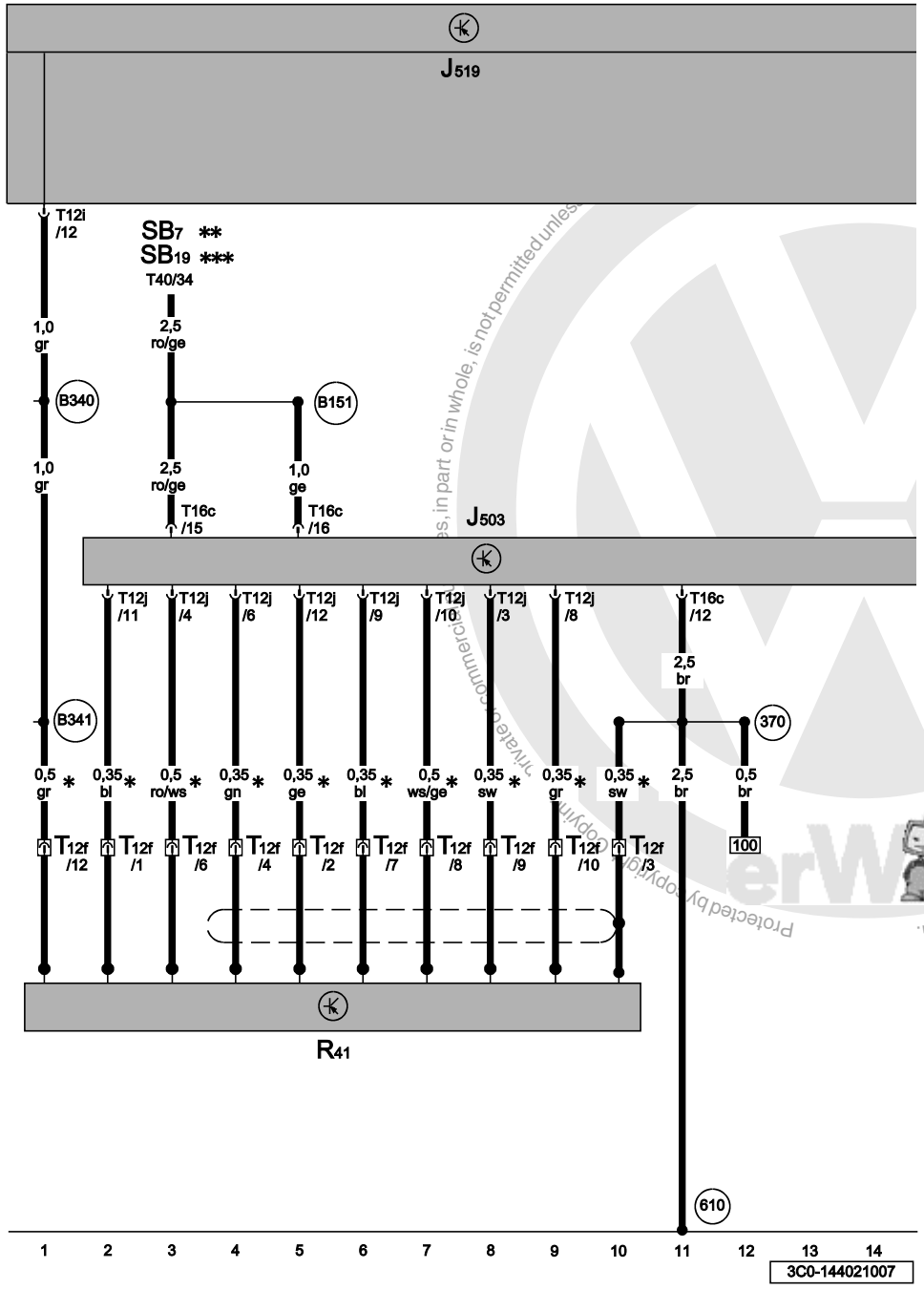
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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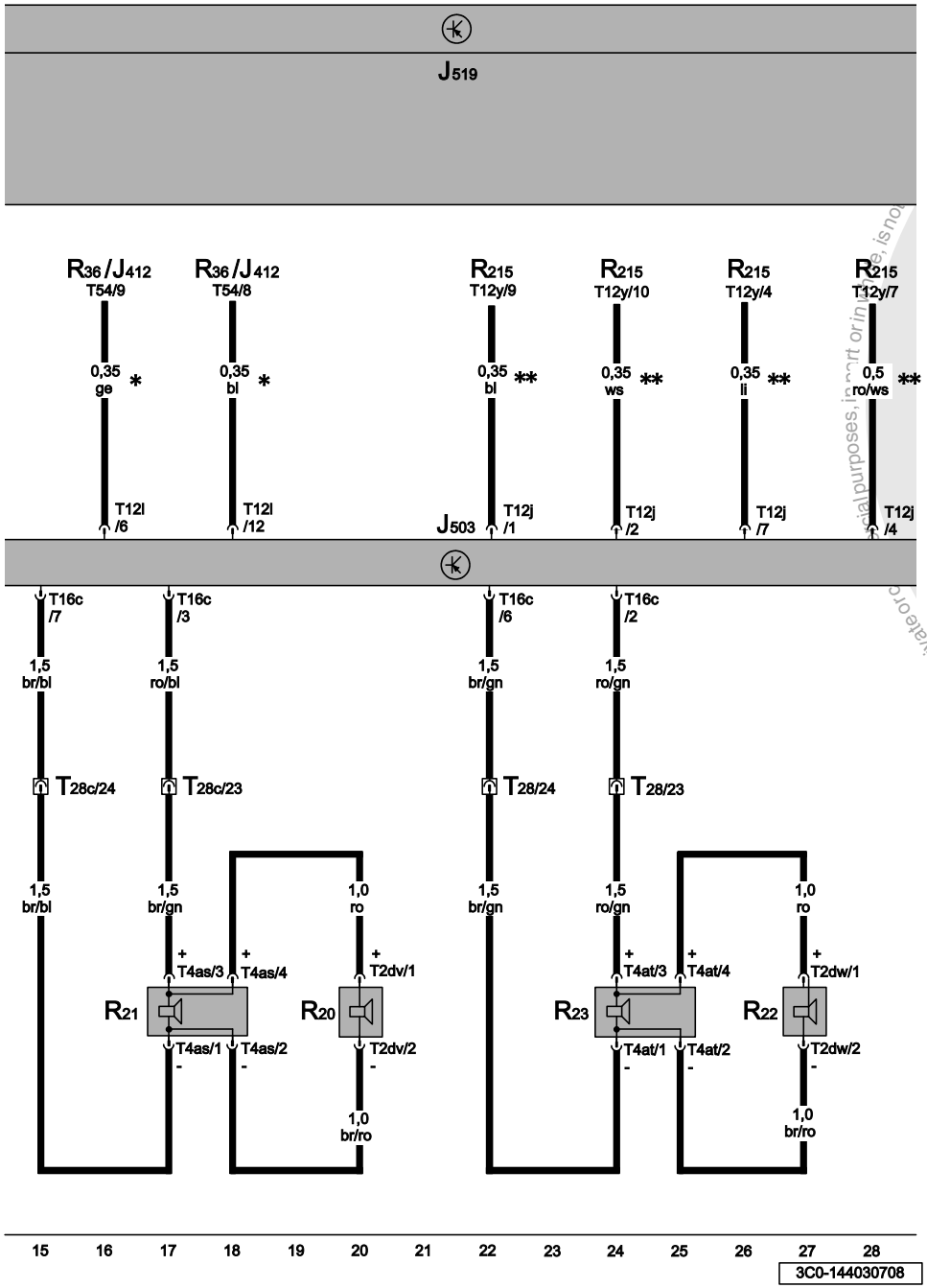


Control unit with display for radio and navigation system, CD changer

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R41	CD changer
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector, blue
T16c	16-pin connector
T40	40-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), front below centre console
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only models with preparation for CD changer or external CD changer
**	Only models with E-box low
***	Only models with E-box high

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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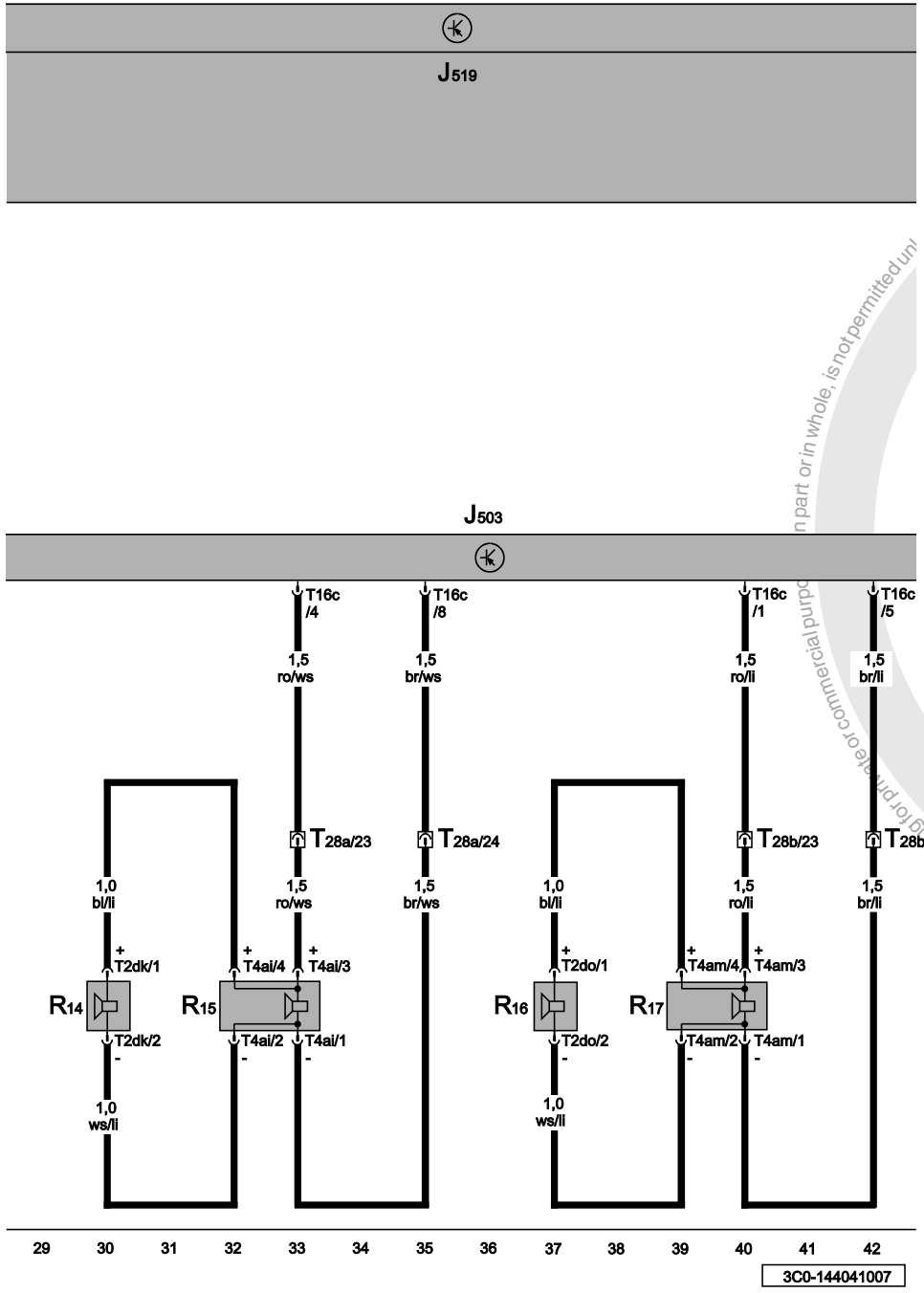


Control unit with display for radio and navigation, front treble loudspeaker and bass loudspeaker, telephone transmitter and receiver unit, interface for external multimedia unit

J412	Mobile telephone operating electronics control unit
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R36	Telephone transmitter and receiver unit
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R215	Interface for external multimedia unit
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T12j	12-pin connector, blue
T12l	12-pin connector, green
T12y	12-pin connector
T16c	16-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T54	54-pin connector
*	Only models with telephone
**	Only models with multimedia socket MEDIA IN

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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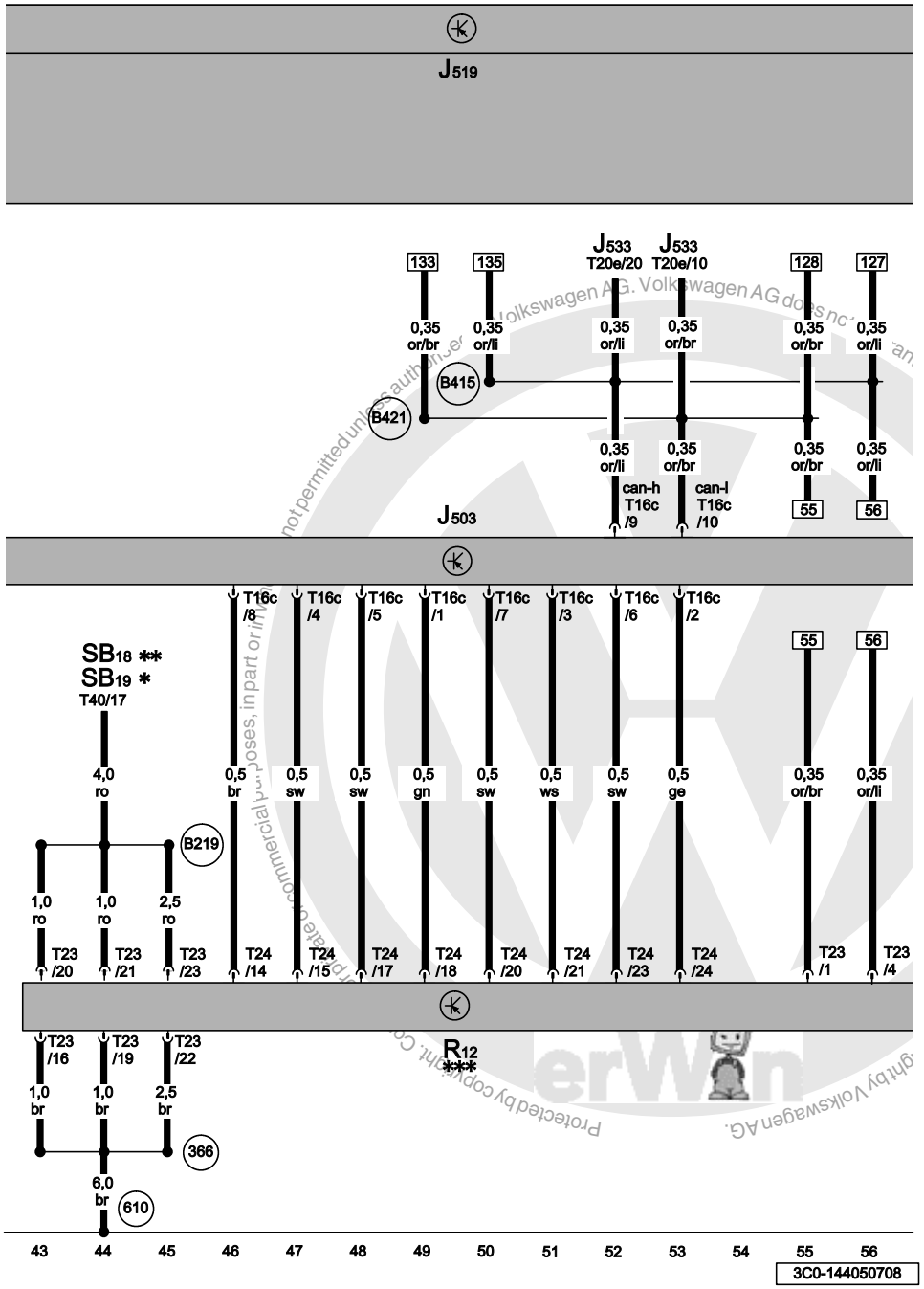


Control unit with display for radio and navigation, rear treble loudspeaker and bass loudspeaker

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T16c	16-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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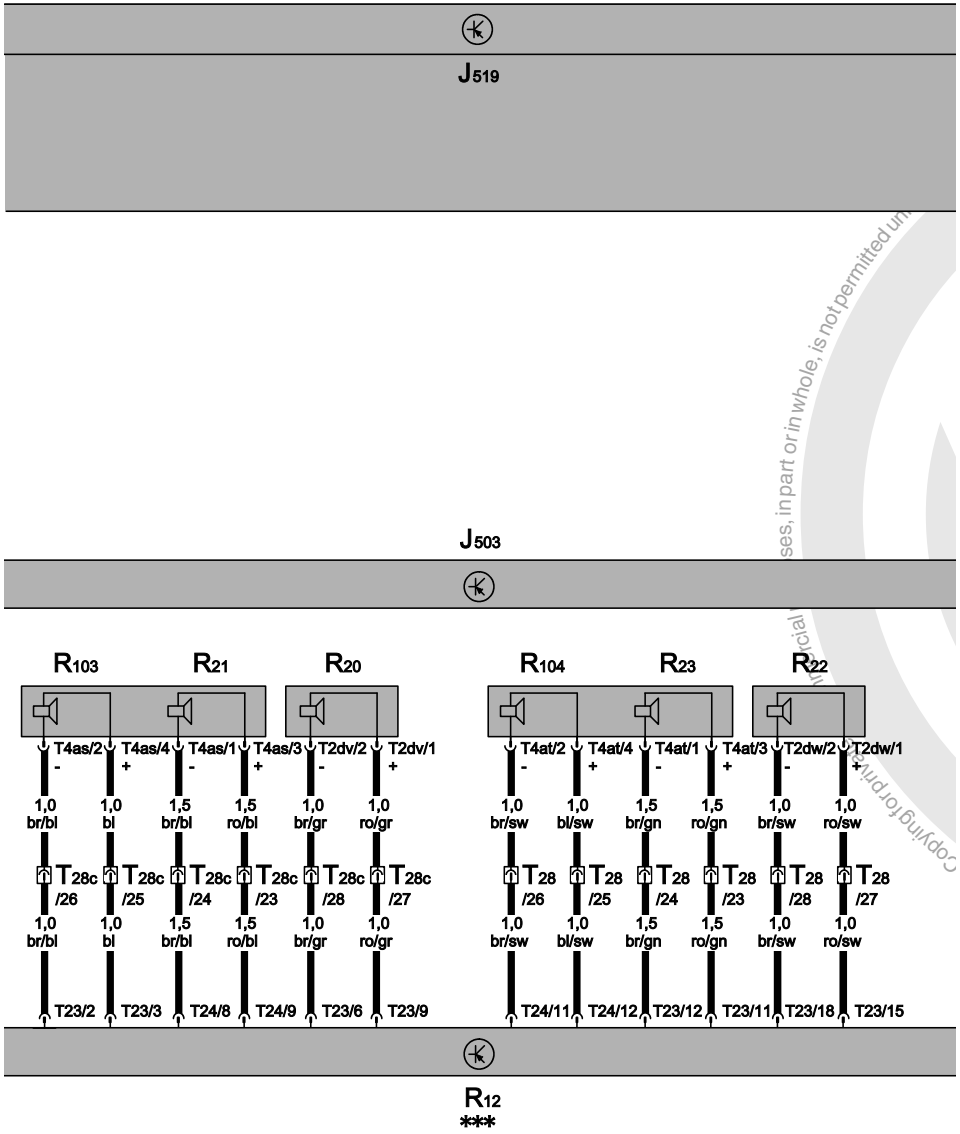


Amplifier, control unit with display for radio and navigation system

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnostic interface
R12	Amplifier
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T16c	16-pin connector
T20e	20-pin connector
T23	23-pin connector
T24	24-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
610	Earth point (audio), front below centre console
B219	Positive connection 4 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Only models with Sound system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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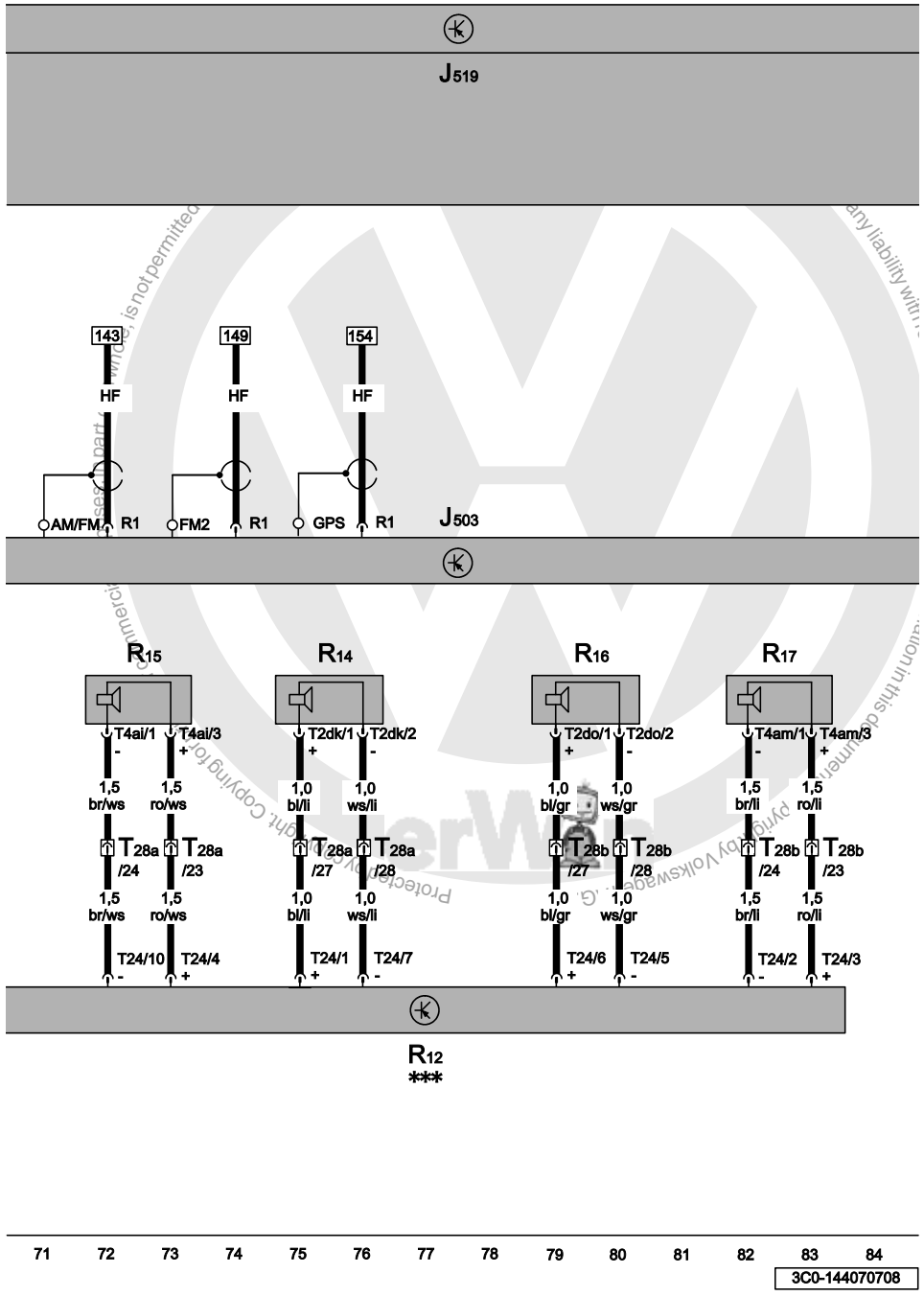


Control unit with display for radio and navigation, front treble loudspeaker, mid frequency speaker and bass loudspeaker, amplifier

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R12	Amplifier
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R103	Front left mid-range loudspeaker
R104	Front right mid-range loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T23	23-pin connector
T24	24-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
***	Only models with Sound system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

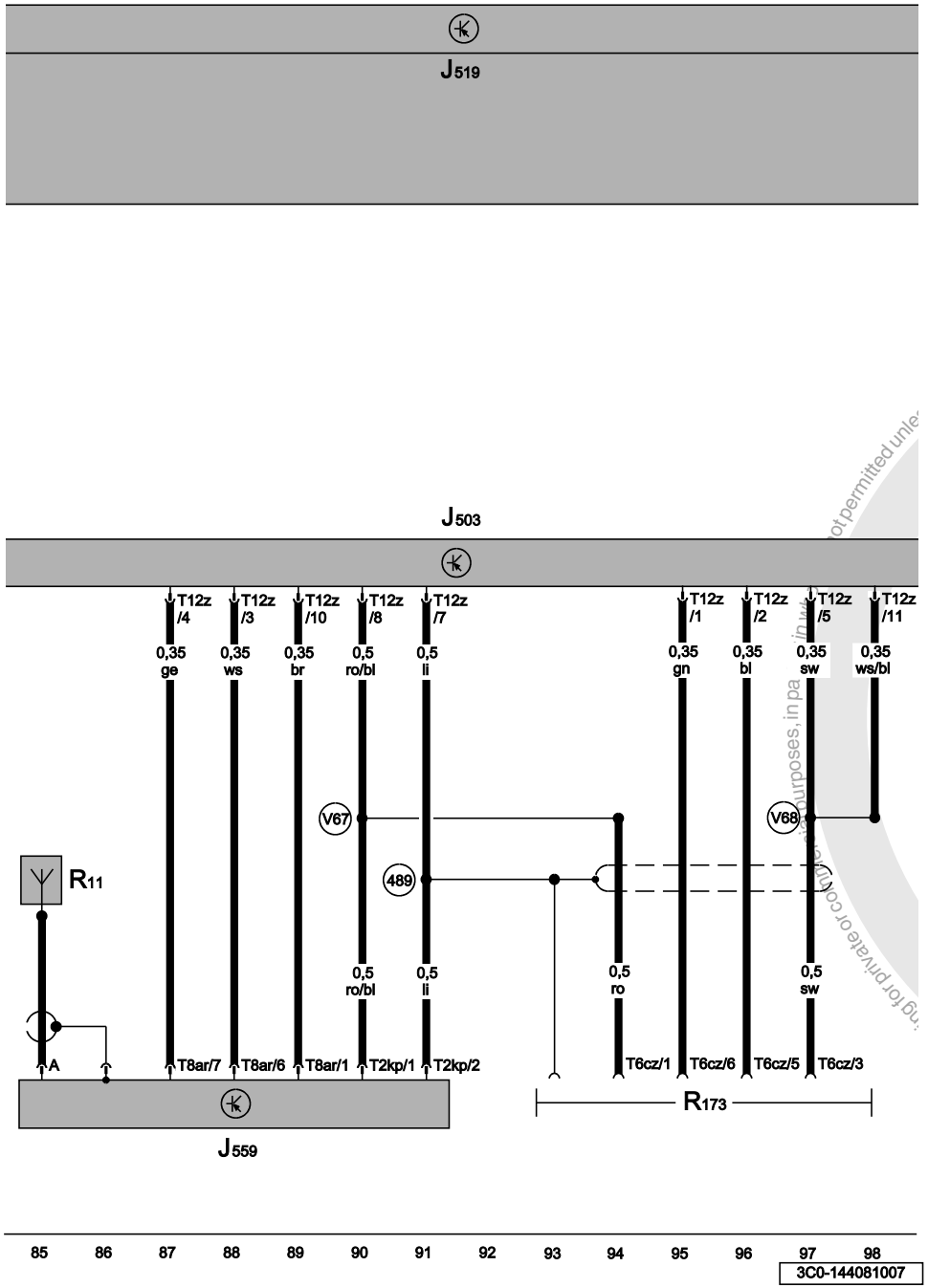
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Control unit with display for radio and navigation, rear bass loudspeaker and treble loudspeaker, amplifier, aerial connection

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R1	Aerial connection
R12	Amplifier
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T24	24-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
***	Only models with Sound system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

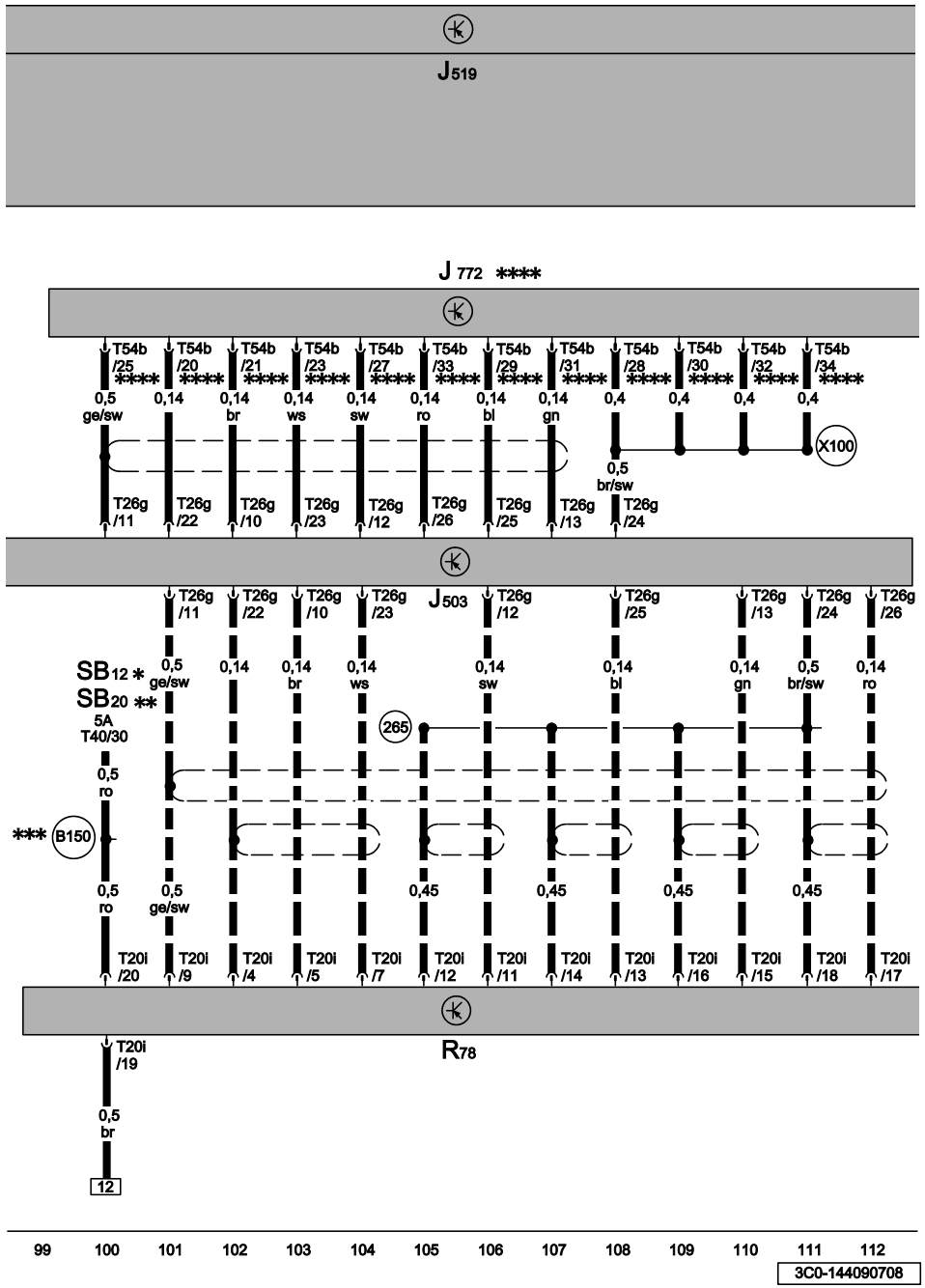


Control unit with display for radio navigation system, traffic information control unit

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J559	Traffic information control unit
R11	Aerial
R173	Traffic data aerial
T2kp	2-pin connector
T6cz	6-pin connector
T8ar	8-pin connector
T12z	12-pin connector
489	Earth connection (screening 1), in radio navigation system wiring harness
V67	Positive connection 1, in radio navigation system wiring harness
V68	Positive connection 2, in radio navigation system wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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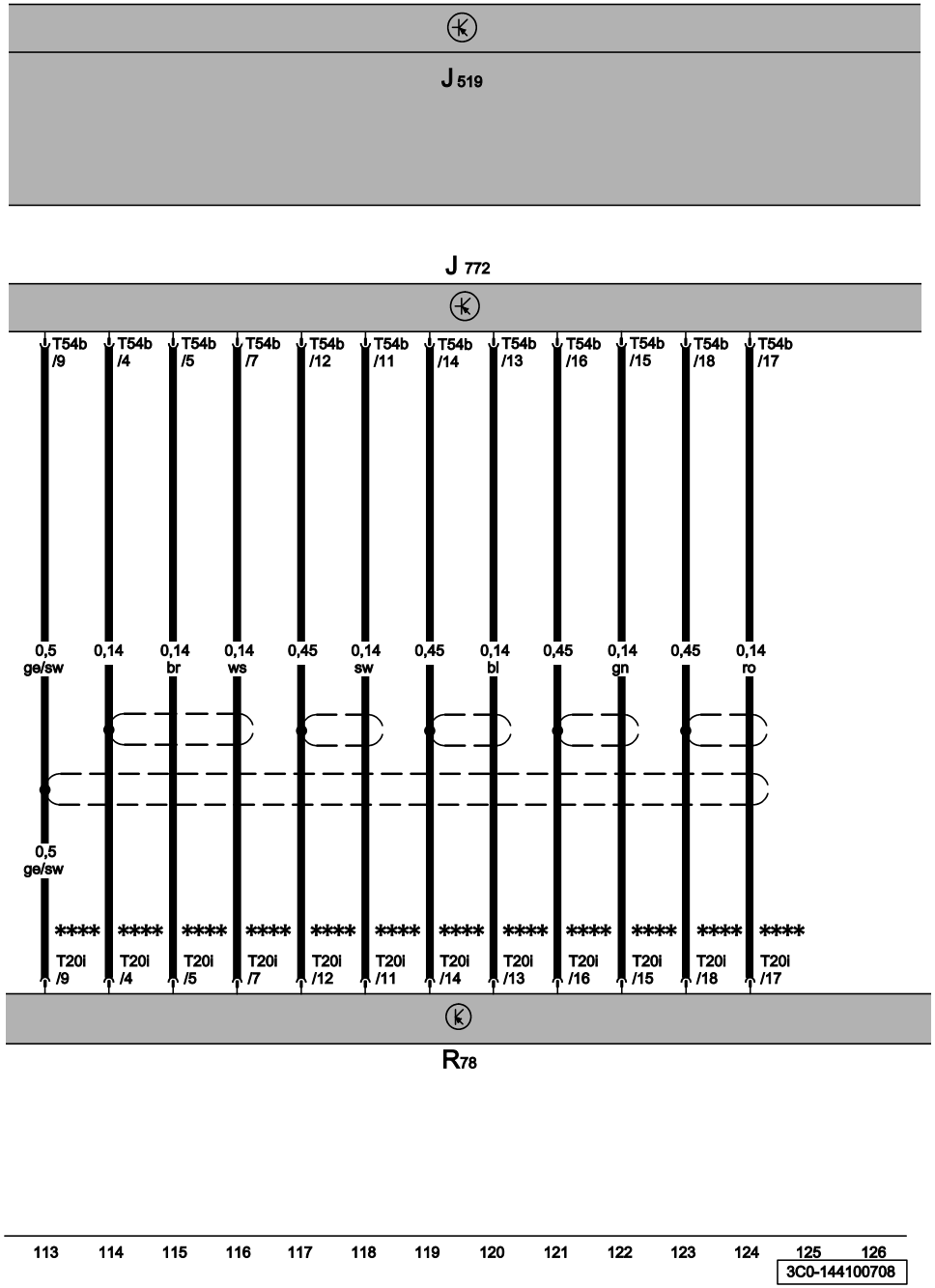


Control unit with display for radio and navigation system, TV tuner, reversing camera system control unit

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J772	Reversing camera system control unit
R78	TV tuner
SB12	Fuse 12 on fuse holder B
SB20	Fuse 20 on fuse holder B
T20i	20-pin connector
T26g	26-pin connector
T40	40-pin connector
T54b	54-pin connector
265	Earth connection (internal screening), in navigation wiring harness
B150	Positive connection 2 (30a), in interior wiring harness
X100	Connection (screening), in optional equipment wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Applicable to April 2008
****	Only models with reversing camera
---	Only models with no reversing camera system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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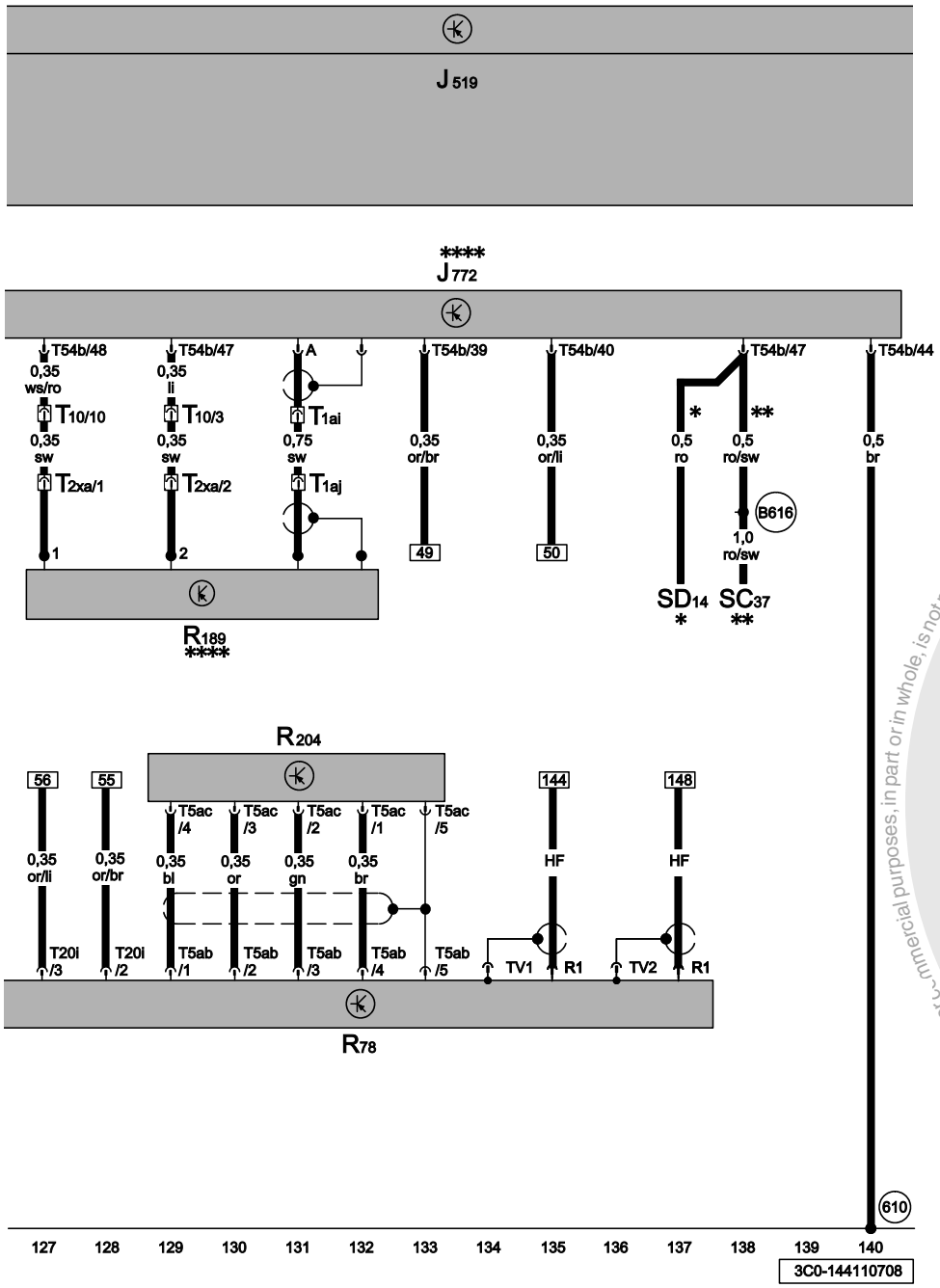


Control unit for reversing camera system, TV tuner

J519	Onboard supply control unit
J772	Reversing camera system control unit
R78	TV tuner
T20i	20-pin connector
T54b	54-pin connector
****	Only models with reversing camera

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Reversing camera system control unit, reversing camera, TV card reader, TV tuner

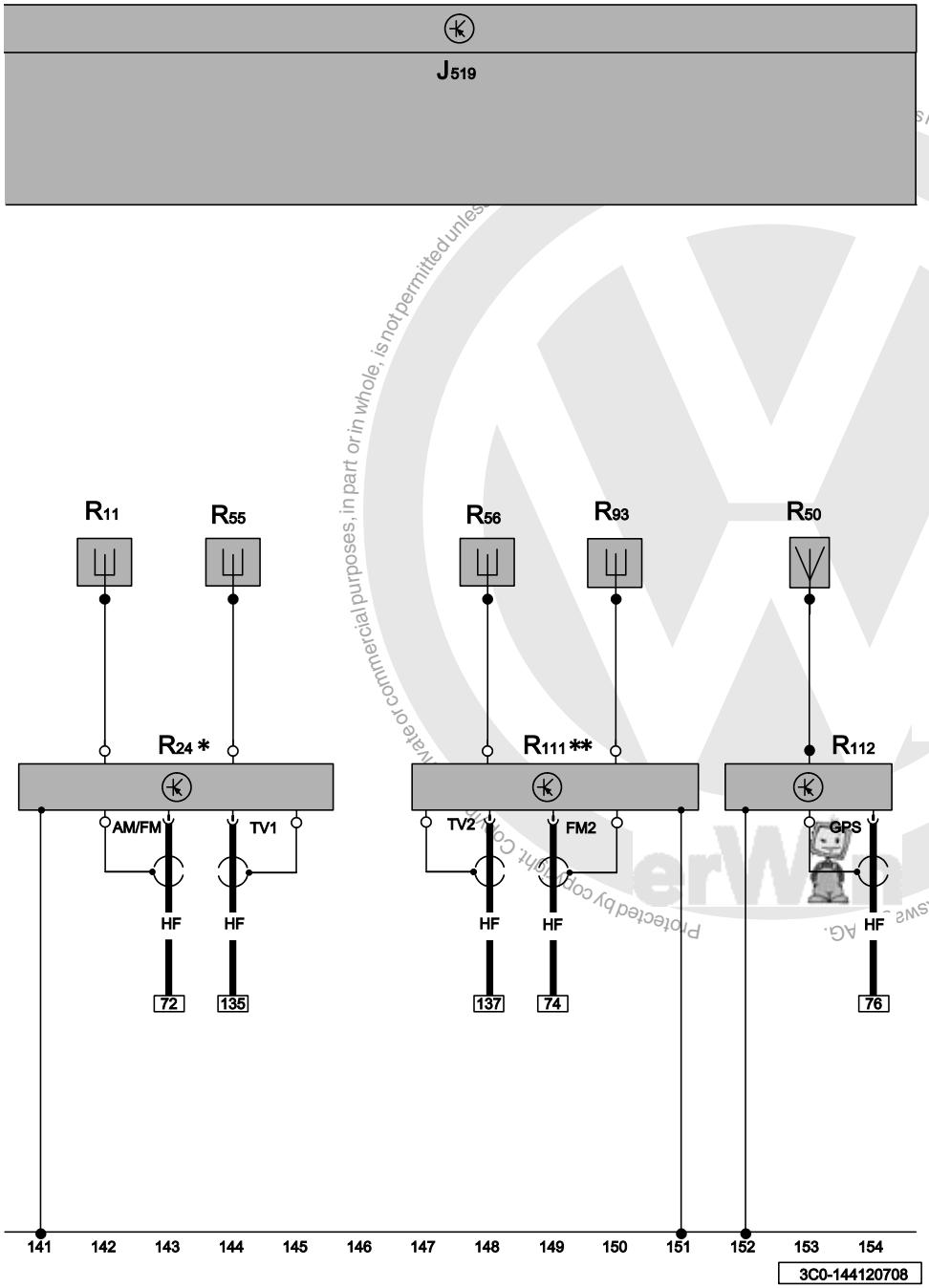
J519	Onboard supply control unit
J772	Reversing camera system control unit
R1	Aerial connection
R78	TV tuner
R189	Reversing camera
R204	TV card reader
SC37	Fuse 37 on fuse holder C
SD14	Fuse 14 on fuse holder D
T1ai	Single connector, grey
T1aj	Single pin connector, near rear lid handle
T2xa	2-pin connector, near rear lid handle
T5ab	5-pin connector
T5ac	5-pin connector
T10	10-pin connector, black, near left of rear lid
T20i	20-pin connector
T54b	54-pin connector
610	Earth point (audio), front below centre console
B616	Positive connection 12 (30a), in interior wiring harness
*	Applicable to April 2008
**	Applicable from May 2008
****	Only models with reversing camera

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Aerials (Variant), aerial amplifier

J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R55	TV aerial 1
R56	TV aerial 2
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
*	In left C-pillar
**	In right C-pillar



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Radio-navigation system RNS 510 with TV (Japan)

⇒ **Saloon models**
⇒ **CD changer**
⇒ **VICS beacon aerial**
⇒ **ETC module**
⇒ **8 loudspeakers**
⇒ **Volkswagen Sound**

From February 2008

Notes:

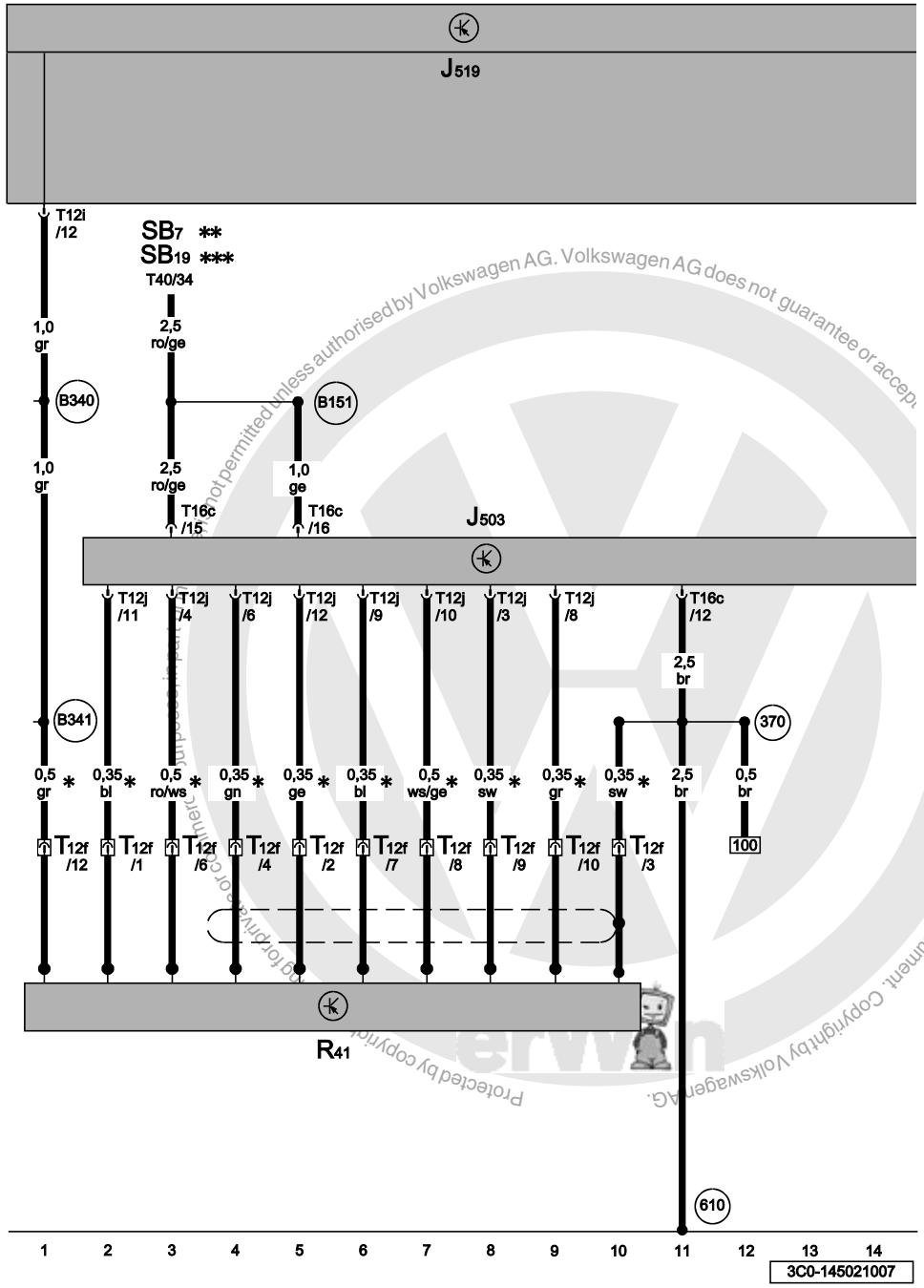
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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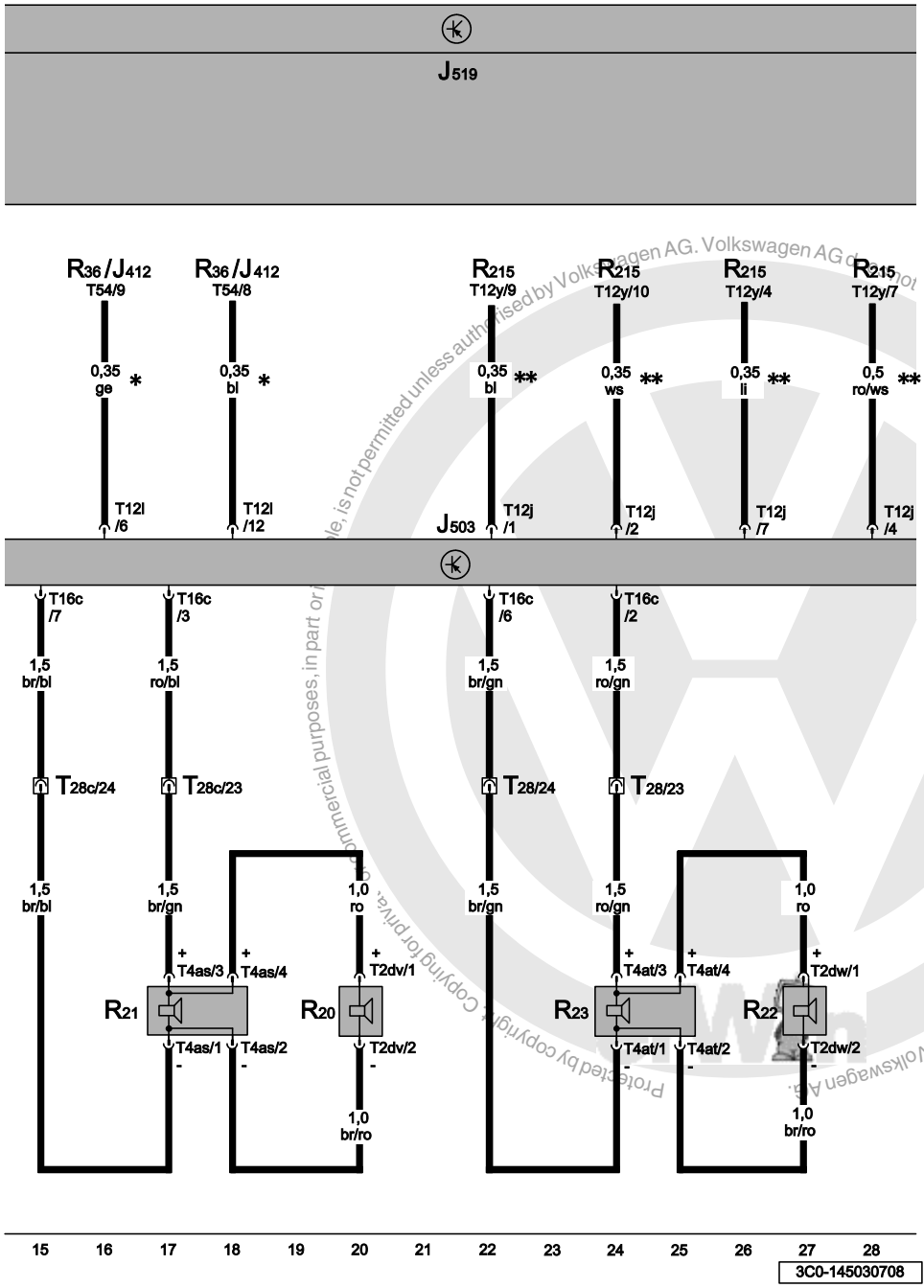


Control unit with display for radio and navigation system, CD changer

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R41	CD changer
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector, blue
T16c	16-pin connector
T40	40-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), front below centre console
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only models with preparation for CD changer or external CD changer
**	Only models with E-box low
***	Only models with E-box high

ws	=	white
sw	=	black
ro	=	red
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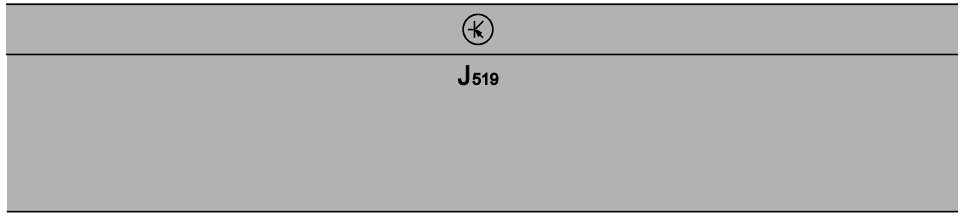


Control unit with display for radio and navigation, front treble loudspeaker and bass loudspeaker, telephone transmitter and receiver unit, interface for external multimedia unit

J412	Mobile telephone operating electronics control unit
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R36	Telephone transmitter and receiver unit
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R215	Interface for external multimedia unit
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T12j	12-pin connector, blue
T12l	12-pin connector, green
T12y	12-pin connector
T16c	16-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T54	54-pin connector
*	Only models with telephone
**	Only models with multimedia socket MEDIA IN

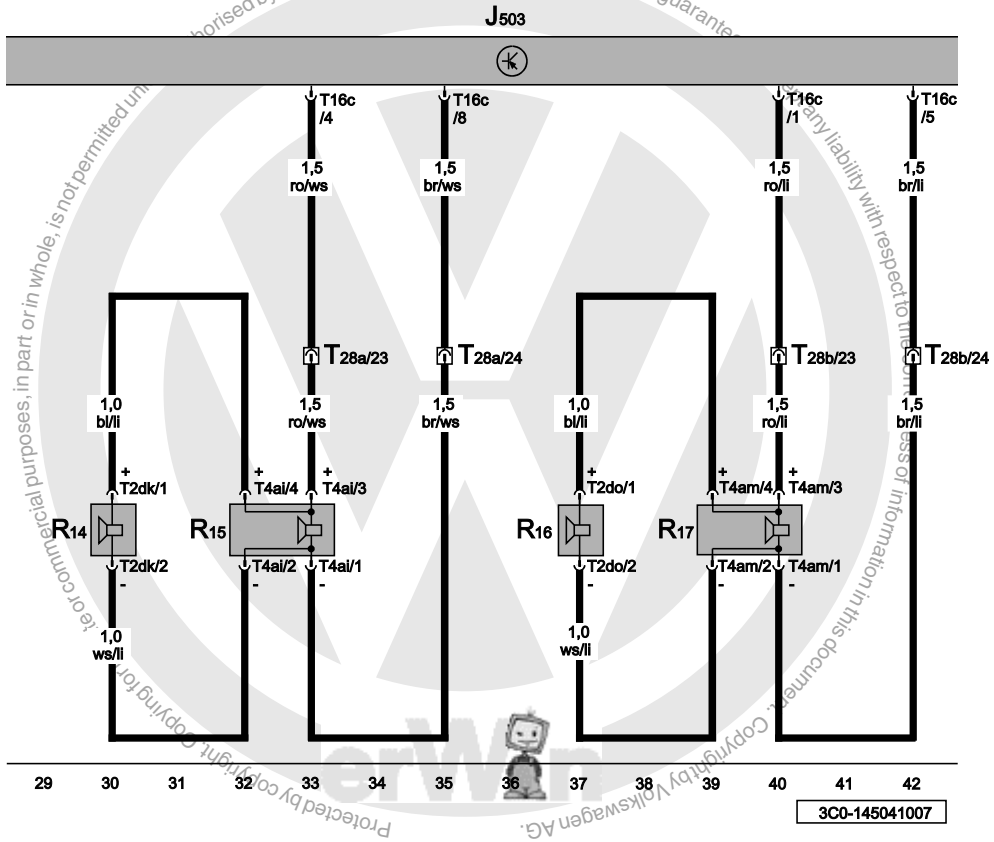
ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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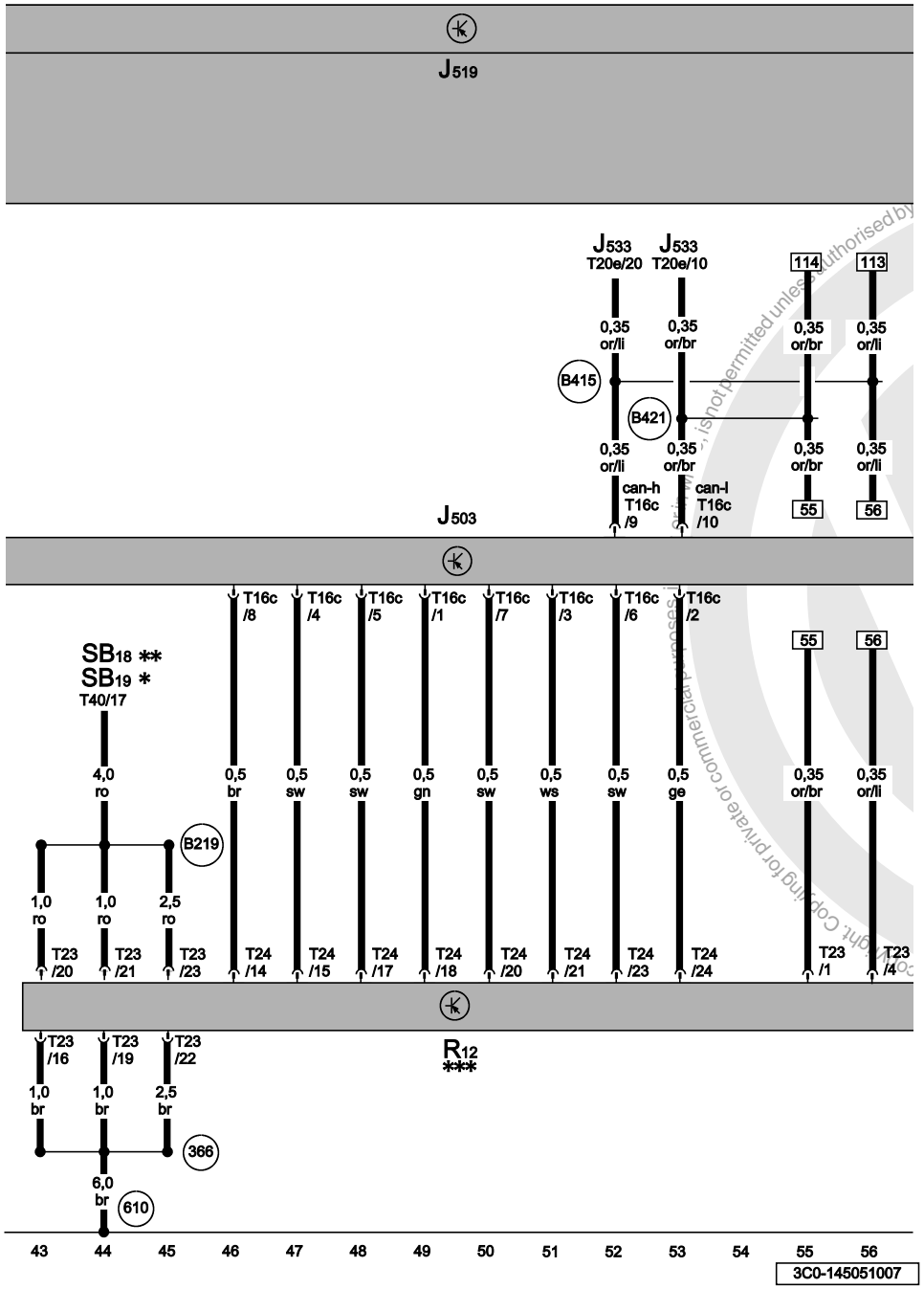
Control unit with display for radio and navigation, rear treble loudspeaker and bass loudspeaker

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T16c	16-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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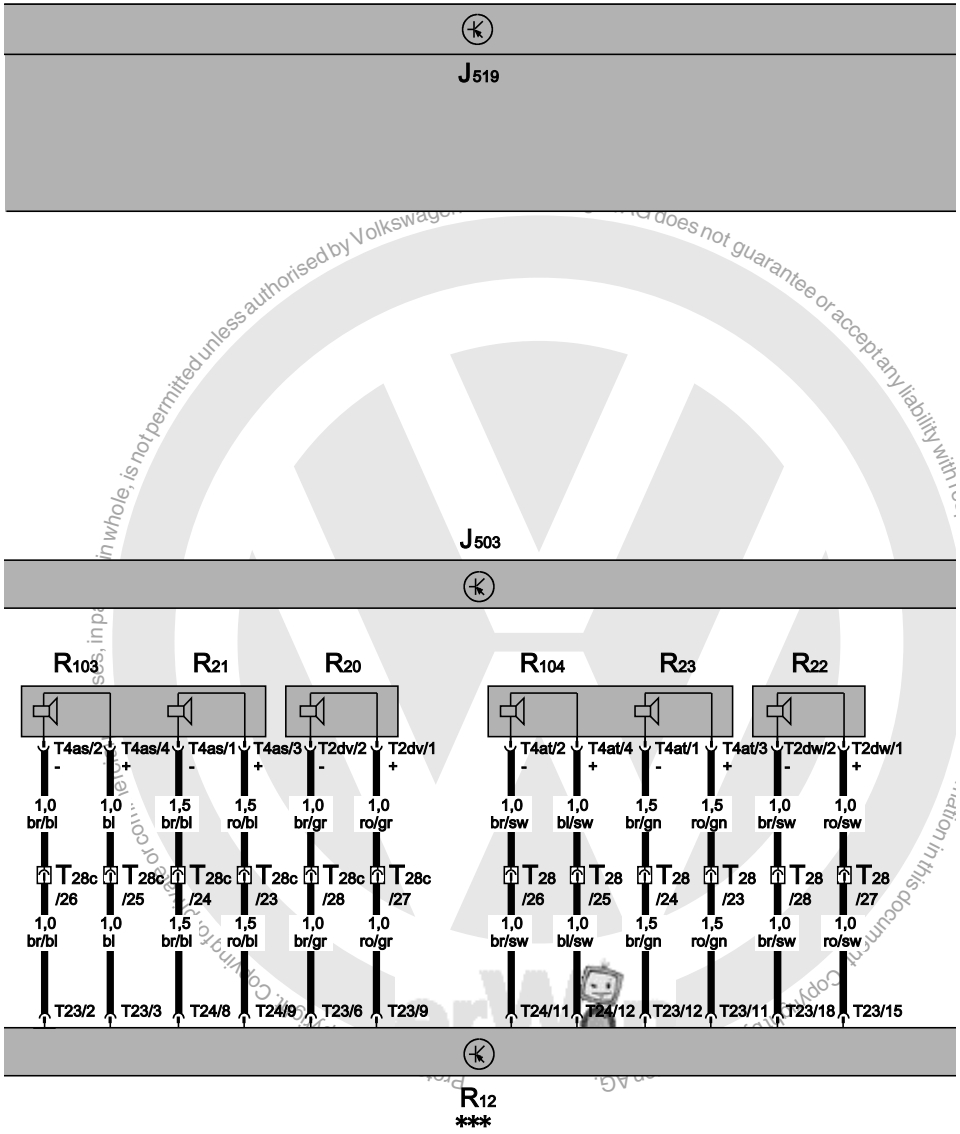


Amplifier voltage supply, control unit with display for radio and navigation system

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnostic interface
R12	Amplifier
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T16c	16-pin connector
T20e	20-pin connector
T23	23-pin connector
T24	24-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
610	Earth point (audio), front below centre console
B219	Positive connection 4 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Only models with Sound system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

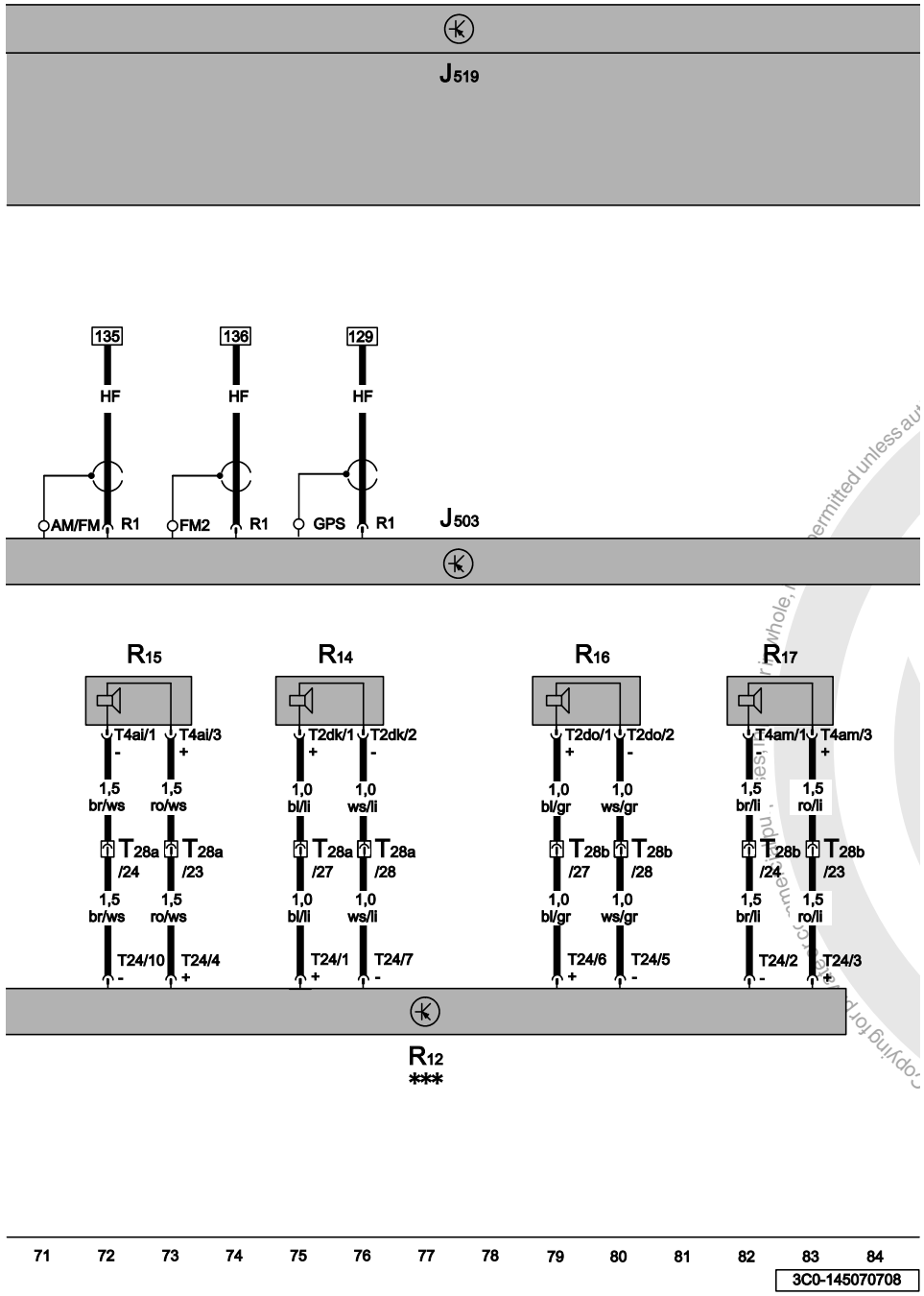
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Control unit with display for radio and navigation, front treble loudspeaker, mid frequency speaker and bass loudspeaker, amplifier

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R12	Amplifier
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R103	Front left mid-range loudspeaker
R104	Front right mid-range loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T23	23-pin connector
T24	24-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
***	Only models with Sound system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

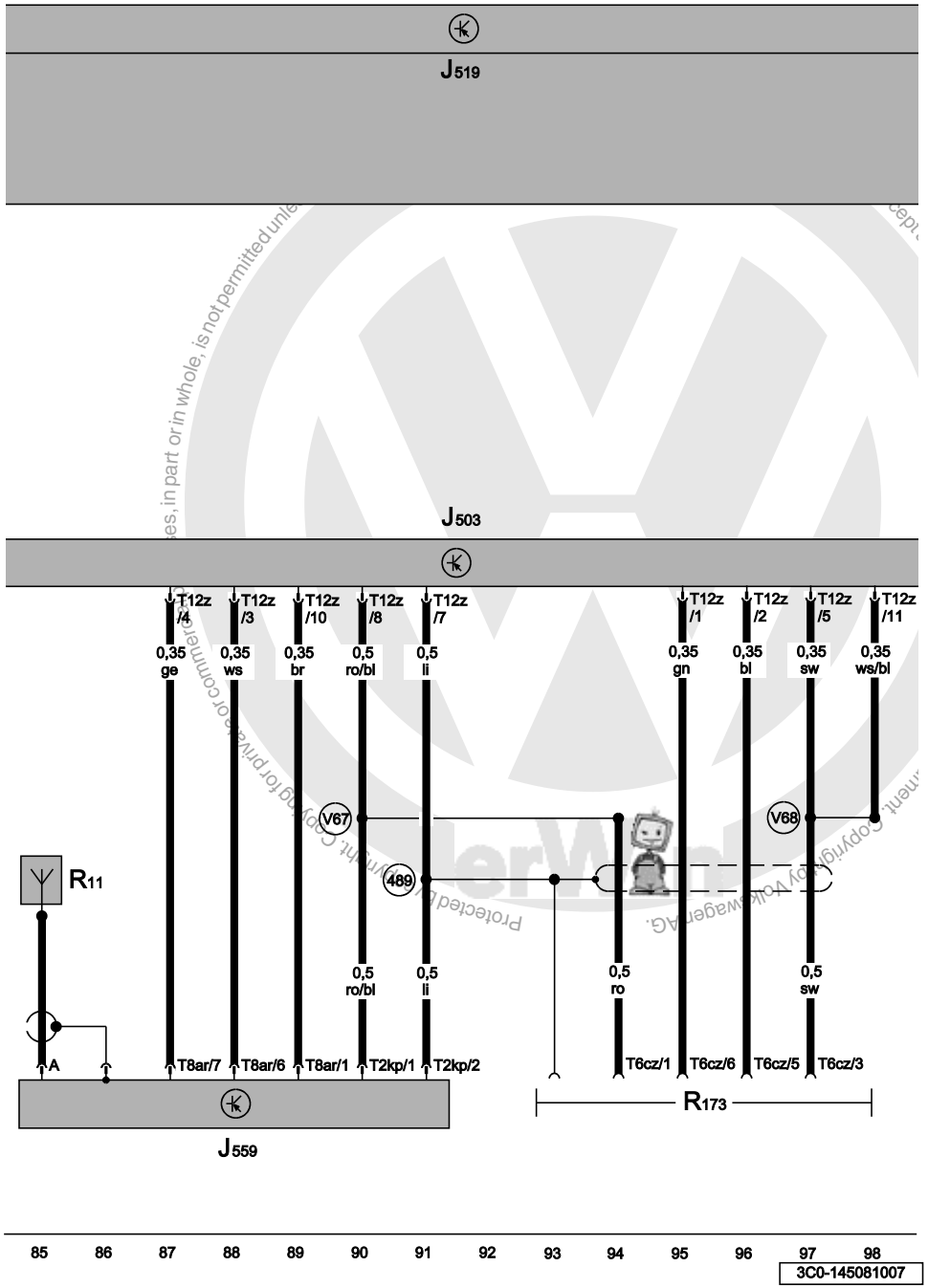


Control unit with display for radio and navigation, rear bass loudspeaker and treble loudspeaker, amplifier, aerial connection

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R1	Aerial connection
R12	Amplifier
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T24	24-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
***	Only models with Sound system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

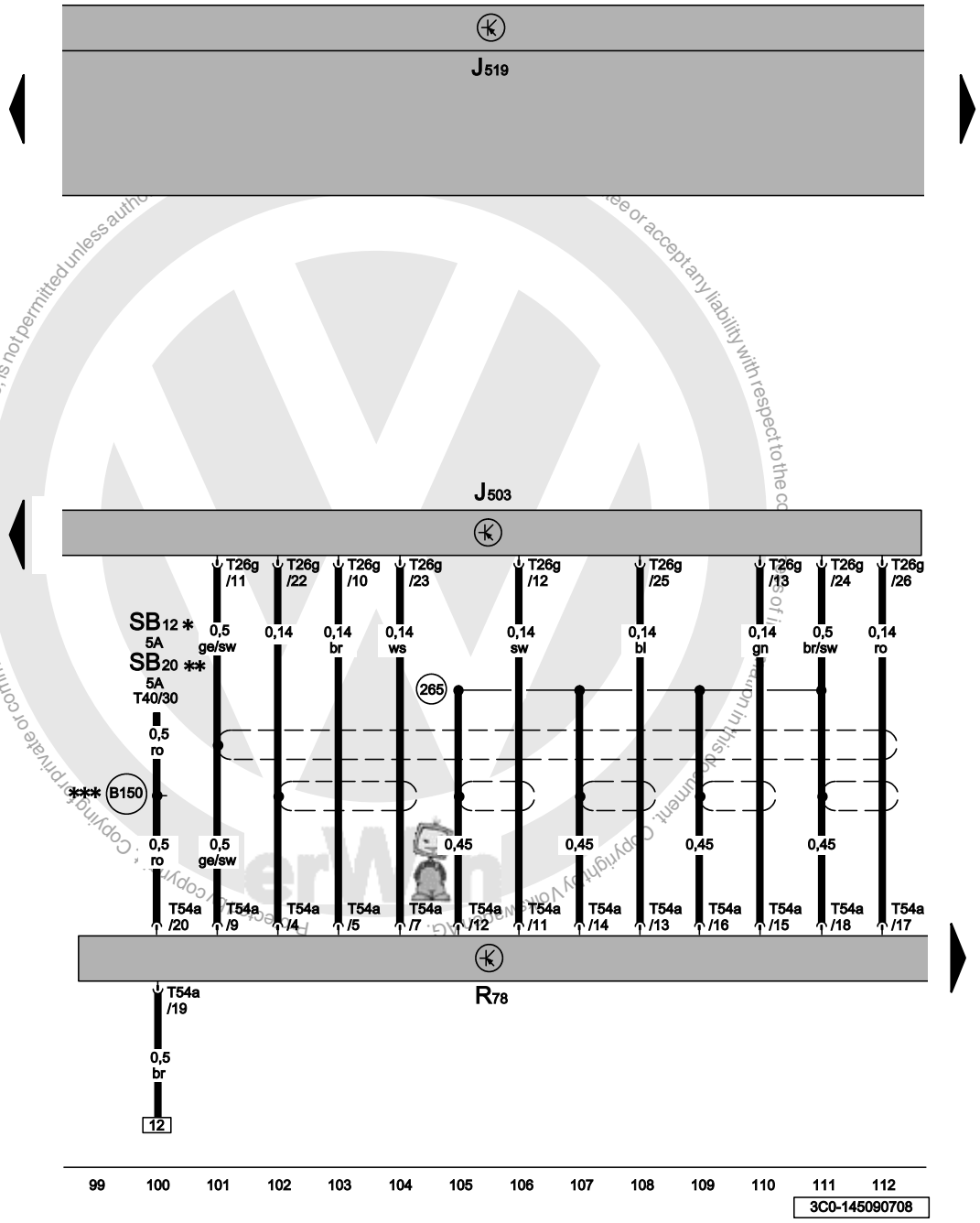
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Control unit with display for radio navigation system, traffic information control unit

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J559	Traffic information control unit
R11	Aerial
R173	Traffic data aerial
T2kp	2-pin connector
T6cz	6-pin connector
T8ar	8-pin connector
T12z	12-pin connector
489	Earth connection (screening 1), in radio navigation system wiring harness
V67	Positive connection 1, in radio navigation system wiring harness
V68	Positive connection 2, in radio navigation system wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
rs	=	pink



Control unit with display for radio and navigation system, TV tuner

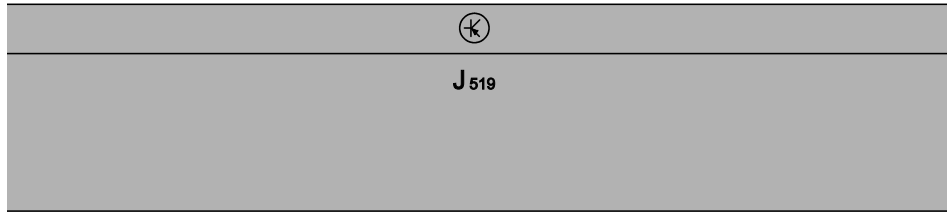
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R78	TV tuner
SB12	Fuse 12 on fuse holder B
SB20	Fuse 20 on fuse holder B
T54a	54-pin connector
T26g	26-pin connector
T40	40-pin connector
T54a	54-pin connector
(265)	Earth connection (internal screening), in navigation wiring harness
(B150)	Positive connection 2 (30a), in interior wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Applicable to April 2008

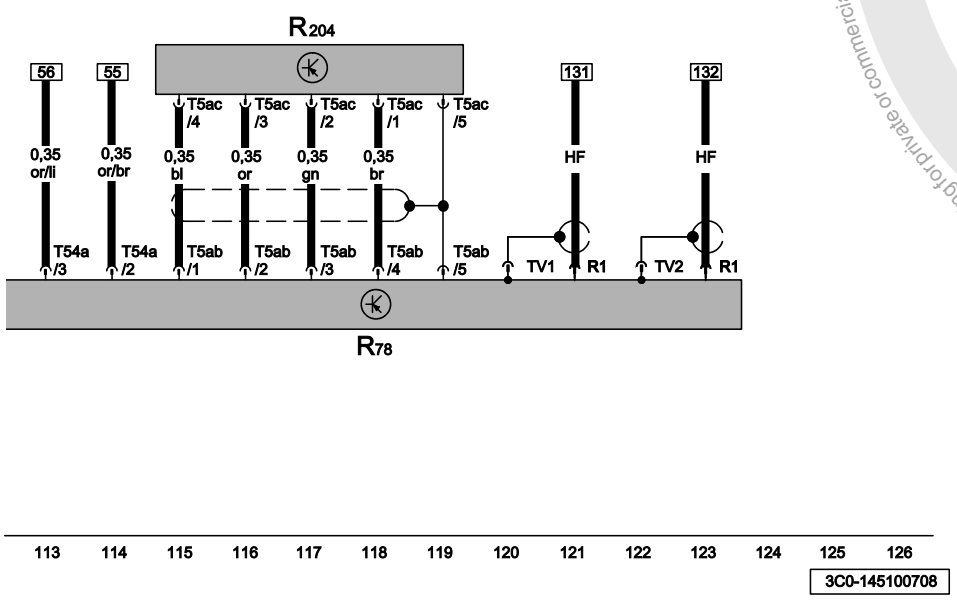
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Onboard supply control unit, TV card reader

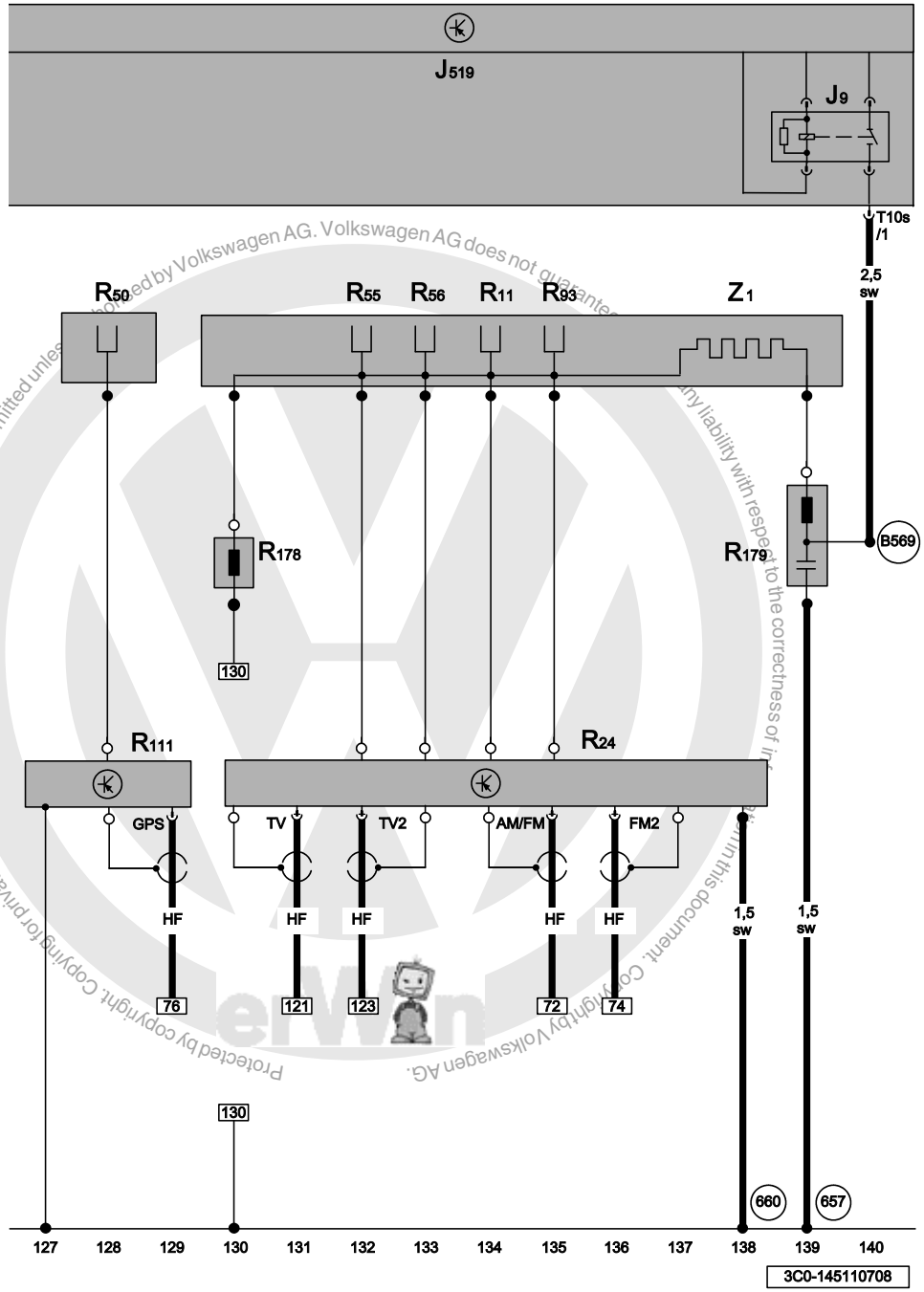
J519	Onboard supply control unit
R1	Aerial connection
R78	TV tuner
R204	TV card reader
T5ab	5-pin connector
T5ac	5-pin connector
T54a	54-pin connector





ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Aerials, aerial amplifier, FM frequency filter

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R55	TV aerial 1
R56	TV aerial 2
R93	Radio aerial 2
R111	Aerial amplifier 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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Airbag systems, 8 ignition circuits

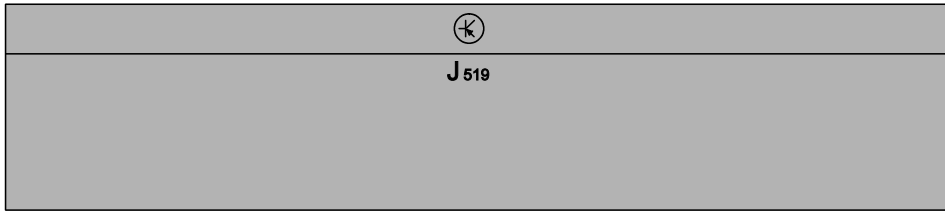
⇒ **Belt tensioner**
⇒ **Side airbag**
⇒ **Curtain/head airbag**
From November 2007

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

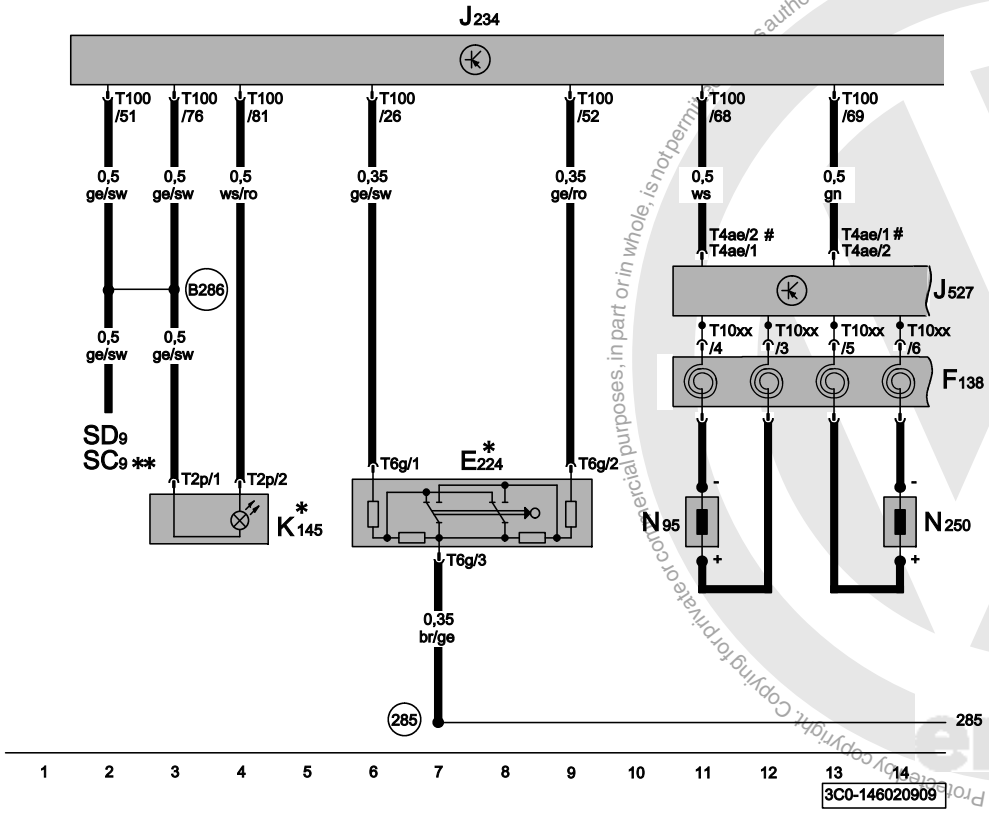
⇒ Guided Fault Finding

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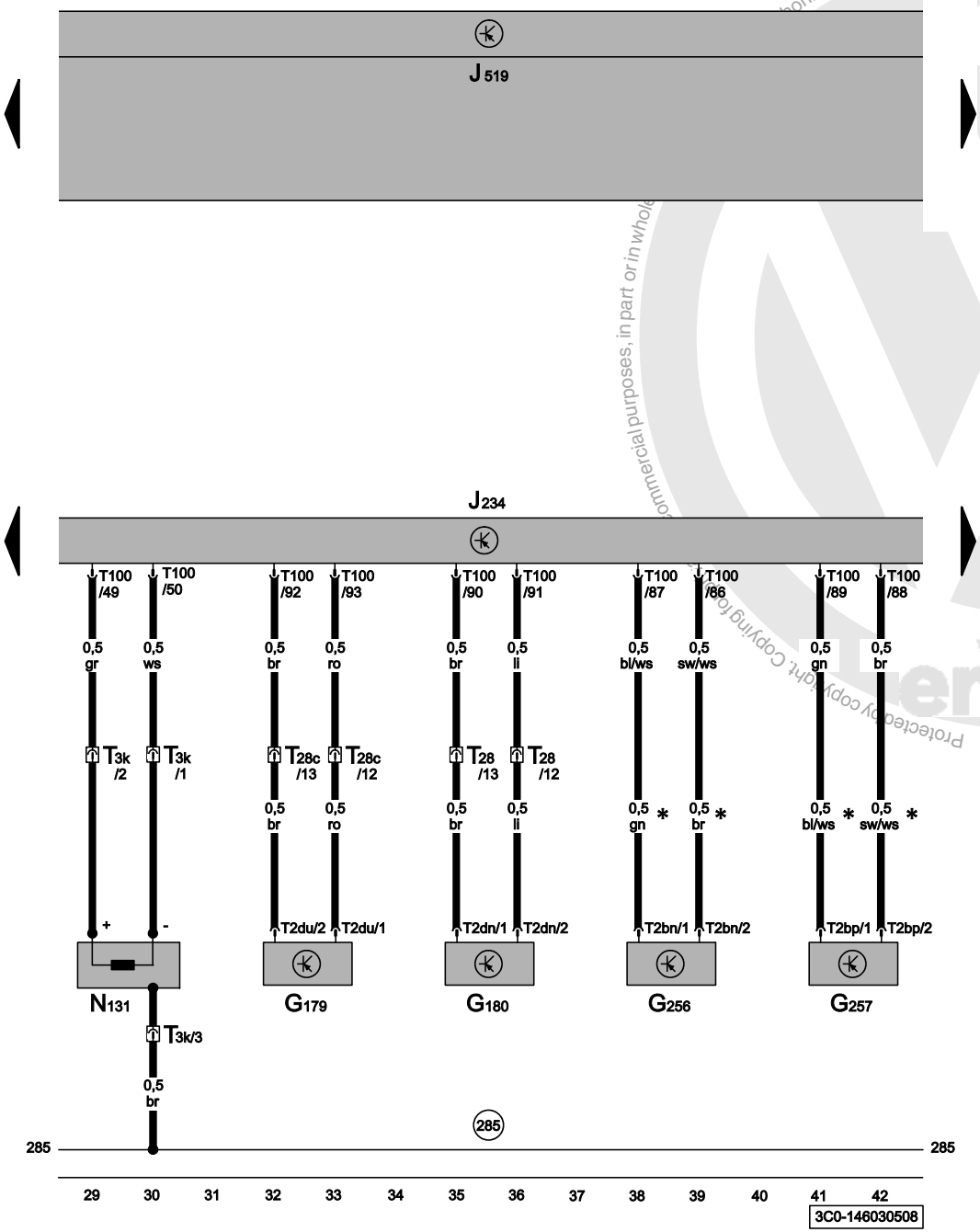
Airbag control unit, driver airbag igniter, warning light and key operated switch to deactivate front passenger airbag, airbag coil connector and return spring with slip ring

E224	Key operated switch to deactivate front passenger side airbag
F138	Airbag coil connector and return ring with slip ring
J234	Airbag control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
K145	Front passenger side airbag deactivated warning lamp
N95	Driver side airbag igniter
N250	Driver side airbag igniter 2
SC9	Fuse 9 on fuse holder C
SD9	Fuse 9 on fuse holder D
T2p	2-pin connector, black
T4ae	4-pin connector, yellow, on steering column
T6g	6-pin connector
T10xx	10-pin connector
T100	100-pin connector
285	Earth connection 7, in interior wiring harness
B286	Connection 10 (15a), in main wiring harness
*	Only models with deactivation of front passenger airbag
**	Applicable from May 2008
#	From November 2009



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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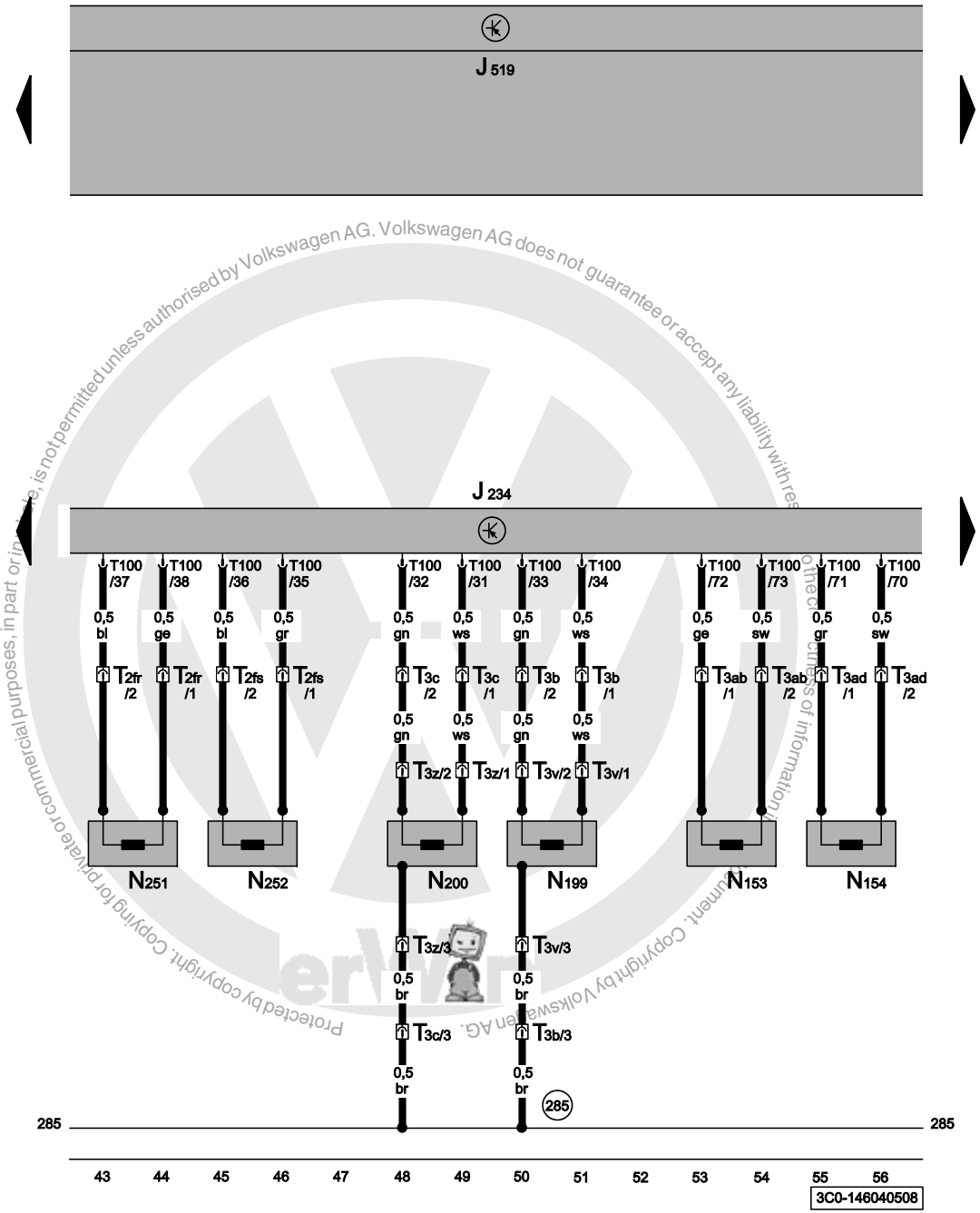


Airbag control unit, igniter for front passenger airbag

G179	Side airbag crash sensor on driver side
G180	Side airbag crash sensor on front passenger side
G256	Rear side airbag crash sensor on driver side
G257	Rear side airbag crash sensor on front passenger side
J234	Airbag control unit
J519	Onboard supply control unit
N131	Front passenger side airbag igniter 1
T2bn	2-pin connector, yellow
T2bp	2-pin connector, yellow
T2dn	2-pin connector, yellow
T2du	2-pin connector, yellow
T28	28-pin connector, coupling point, right A-pillar
T3k	3-pin connector, yellow, behind glove compartment
T28c	28-pin connector, coupling point, left A-pillar
T100	100-pin connector
285	Earth connection 7, in interior wiring harness
*	Only right-hand drive

ws	=	white
sw	=	black
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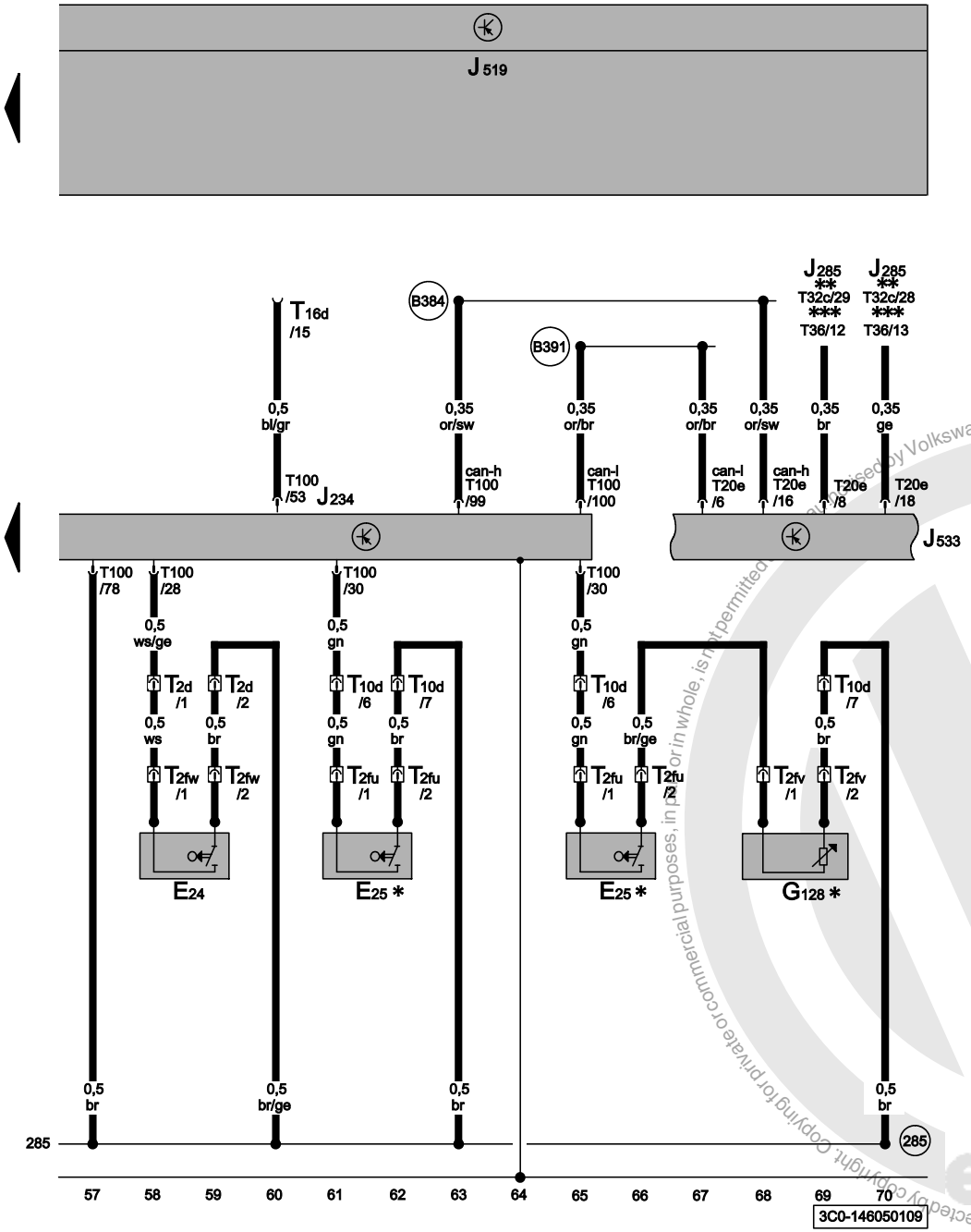


Airbag control unit, belt tensioner igniter 1, side airbag igniter, curtain/head airbag igniter

J234	Airbag control unit
J519	Onboard supply control unit
N153	Driver seat belt tensioner igniter 1
N154	Front passenger seat belt tensioner igniter 1
N199	Side airbag igniter on driver side
N200	Side airbag igniter on front passenger side
N251	Driver side curtain/head airbag igniter
N252	Front passenger side curtain/head airbag igniter
T2fr	2-pin connector, yellow
T2fs	2-pin connector, yellow
T3b	3-pin connector, yellow, under driver seat
T3c	3-pin connector, yellow, under front passenger seat
T3v	3-pin connector, yellow, in driver seat
T3z	3-pin connector, yellow, in front passenger seat
T3ab	3-pin connector, yellow
T3ad	3-pin connector, yellow
T100	100-pin connector
(285)	Earth connection 7, in interior wiring harness

ws	=	white
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Airbag control unit, belt switch, sat occupied sensor, front passenger side, data bus diagnostic interface

E24	Driver side belt switch
E25	Front passenger side belt switch
G128	Seat occupied sensor, front passenger side
J234	Airbag control unit
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
T2d	2-pin connector, black, coupling point driver side, under seat
T2fu	2-pin connector, in front passenger seat
T2fv	2-pin connector, in front passenger seat
T2fw	2-pin connector, in driver seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
T100	100-pin connector
285	Earth connection 7, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Depends on equipment
**	Applicable from November 2008
***	Applicable to October 2008

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Airbag systems, 16 ignition circuits

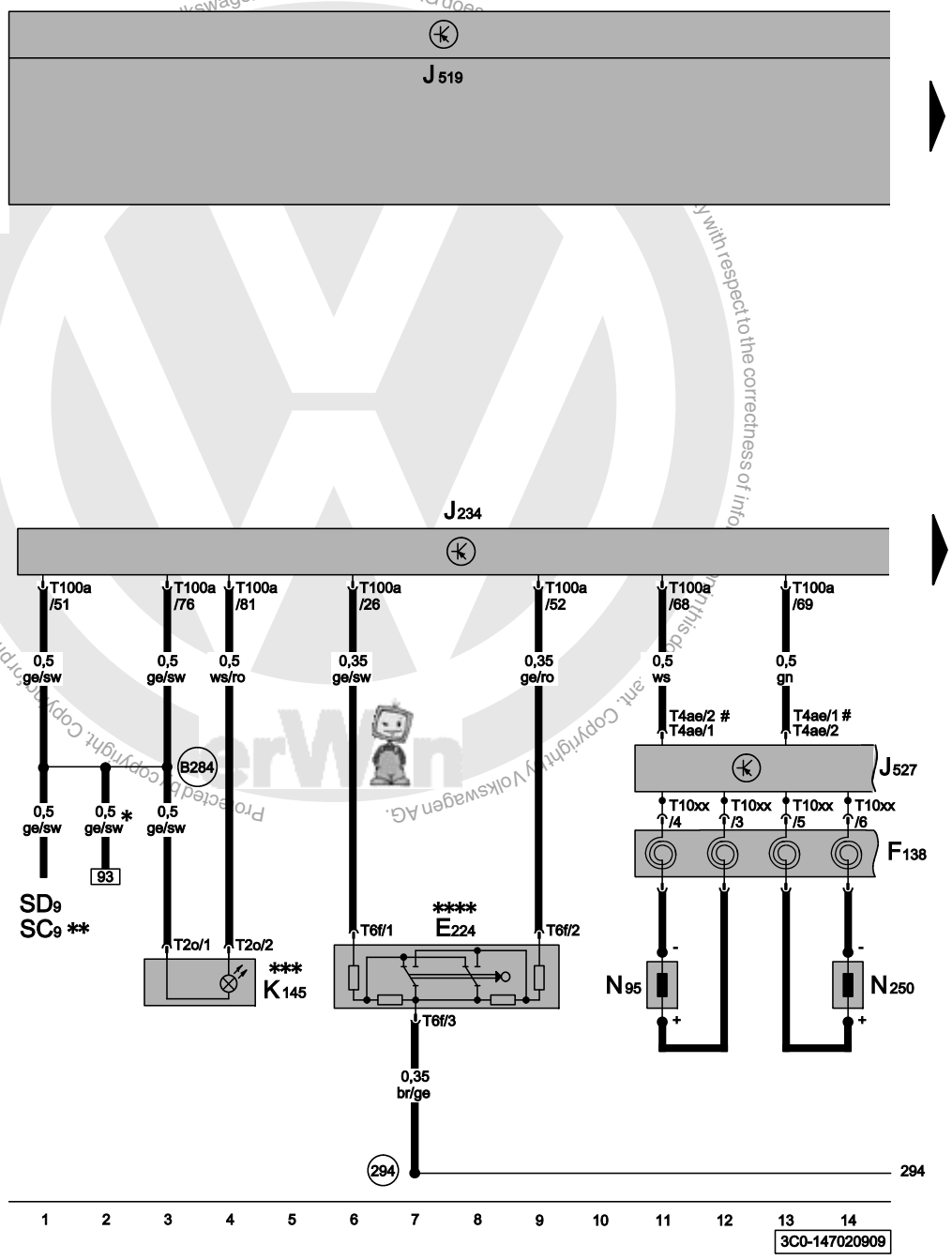
⇒ **Belt tensioner**
⇒ **Side airbag**
⇒ **Curtain/head airbag**
From November 2007

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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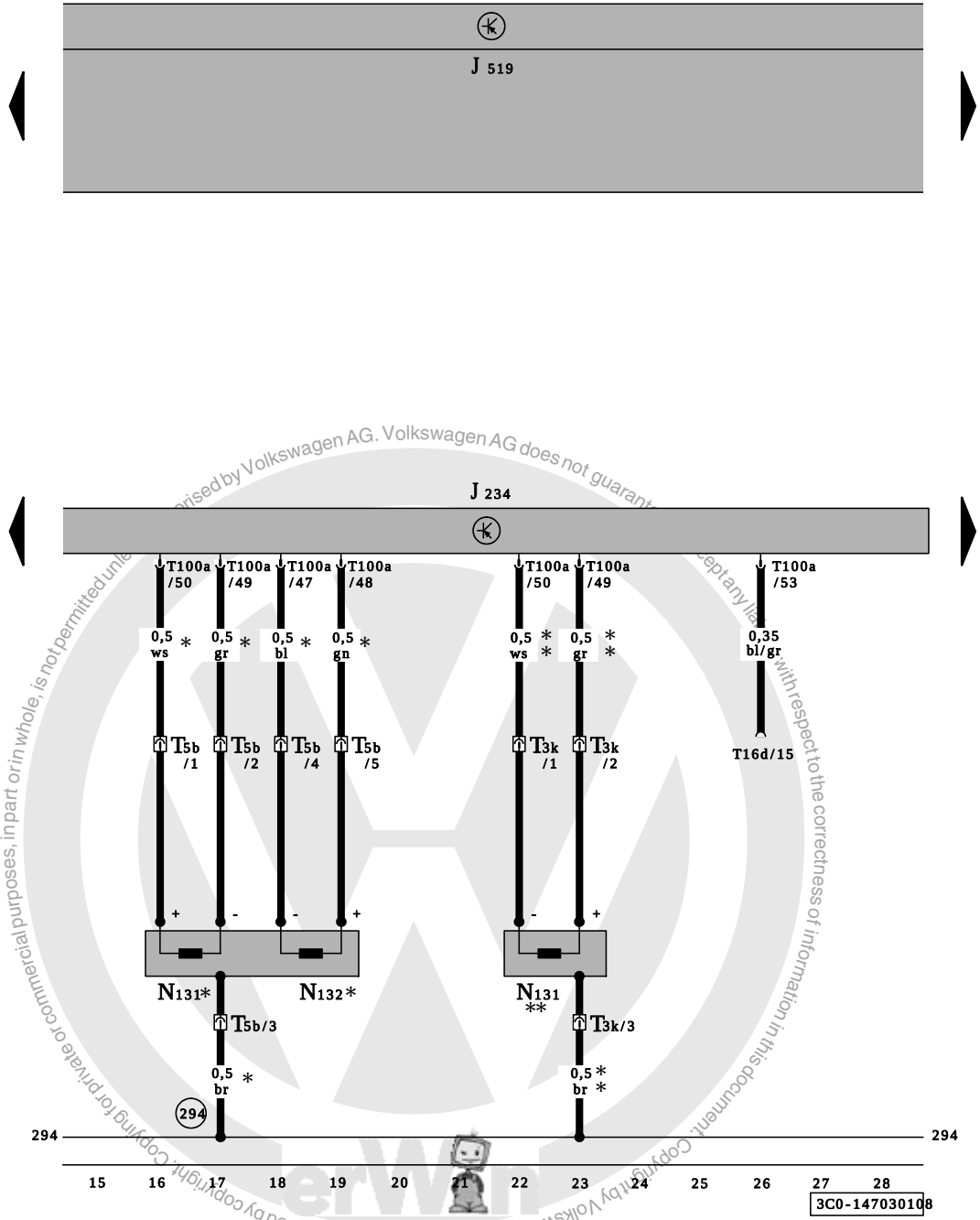
Airbag control unit, driver side airbag igniter, warning light and key operated switch to deactivate front passenger side airbag, steering column electronics control unit, airbag coil connector and return spring with slip ring

E224	Key operated switch to deactivate front passenger side airbag
F138	Airbag coil connector and return ring with slip ring
J234	Airbag control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
K145	Front passenger side airbag deactivated warning lamp
N95	Driver side airbag igniter
N250	Driver side airbag igniter 2
SC9	Fuse 9 on fuse holder C
SD9	Fuse 9 on fuse holder D
T2o	2-pin connector
T4ae	4-pin connector, yellow, on steering column
T6f	6-pin connector
T10xx	10-pin connector
T100a	100-pin connector
294	Earth connection 9, in interior wiring harness
B284	Connection 8 (15a), in main wiring harness
*	Only for American markets
**	Applicable from May 2008
***	Only models with deactivation of front passenger airbag
****	Only models with key operated switch to deactivate front passenger airbag
#	From November 2009

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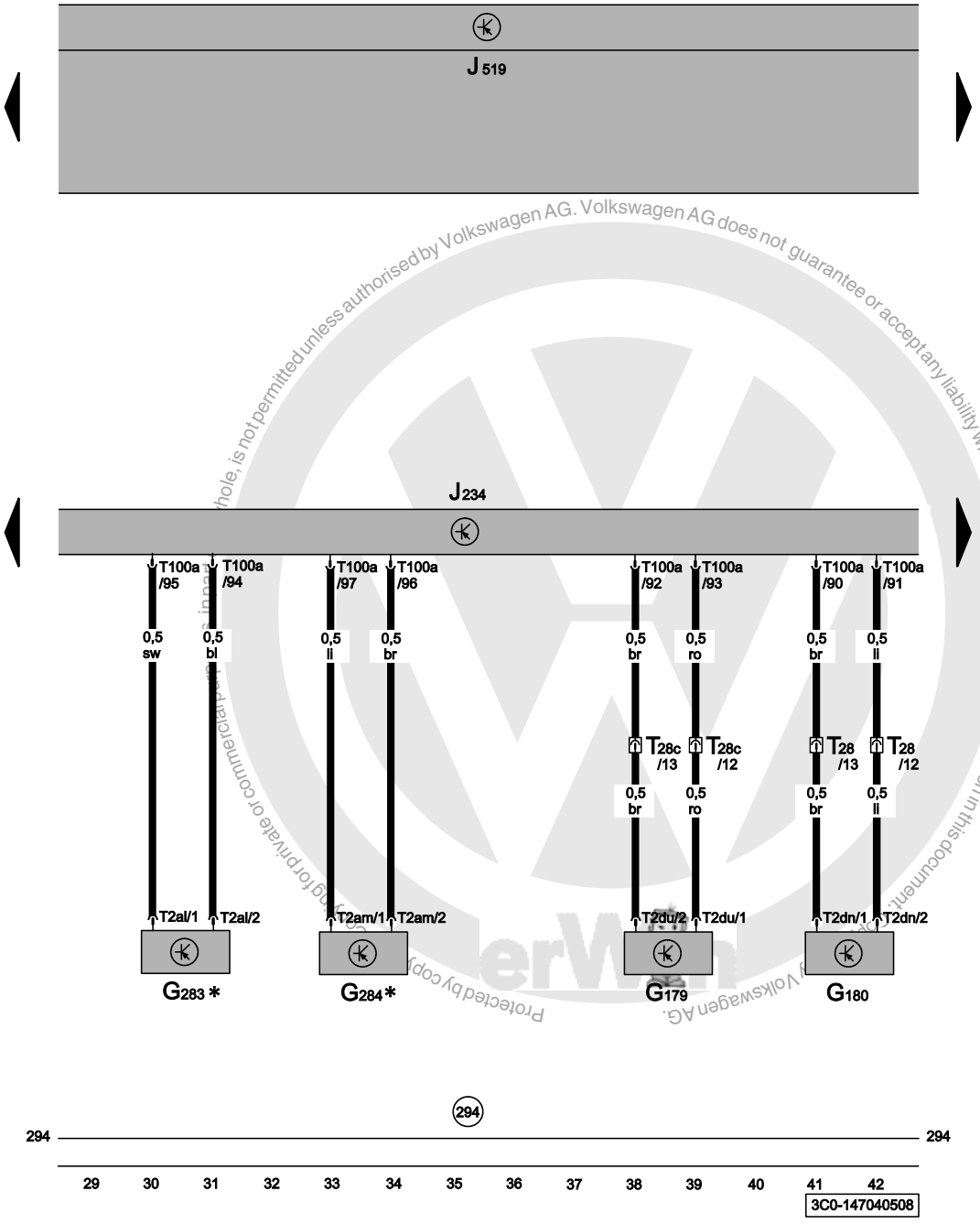
Airbag control unit, igniter for front passenger airbag

J234	Airbag control unit
J519	Onboard supply control unit
N131	Front passenger side airbag igniter 1
N132	Front passenger side airbag igniter 2
T3k	3-pin connector, yellow, behind glove compartment
T5b	5-pin connector, yellow, behind glove compartment
T16d	16-pin connector, self-diagnosis connection
T100a	100-pin connector
(294)	Earth connection 9, in interior wiring harness
*	Only models with 2-stage airbag system
**	Only models with single stage airbag system



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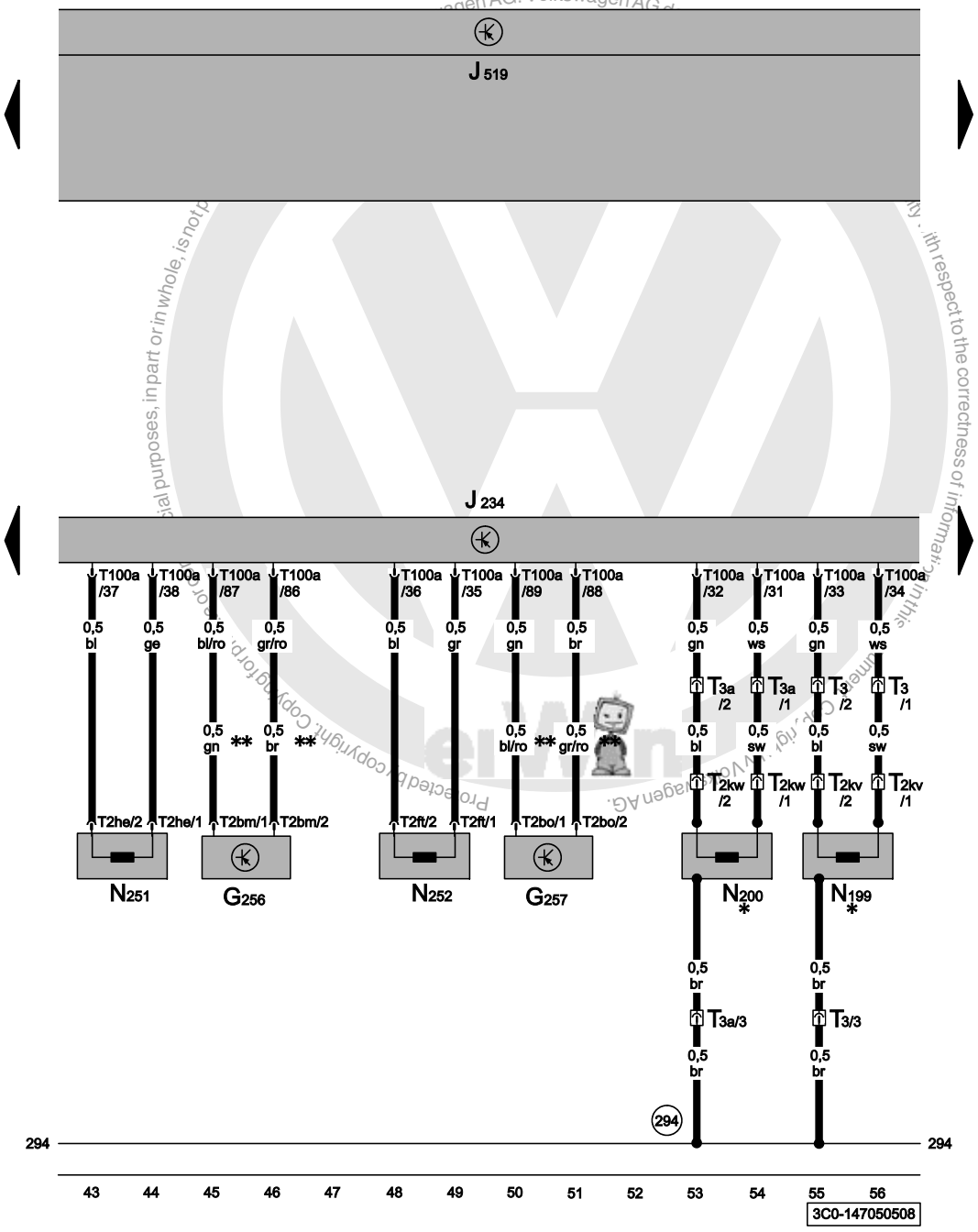


Airbag control unit, front airbag crash sensors for driver and front passenger sides, side airbag crash sensors for driver and front passenger sides

G179	Side airbag crash sensor on driver side
G180	Side airbag crash sensor on front passenger side
G283	Front airbag crash sensor for driver side
G284	Front airbag crash sensor for front passenger side
J234	Airbag control unit
J519	Onboard supply control unit
T2al	2-pin connector, yellow
T2am	2-pin connector, yellow
T2dn	2-pin connector, yellow
T2du	2-pin connector, yellow
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T100a	100-pin connector
(294)	Earth connection 9, in interior wiring harness
*	Only American markets

ws	=	white
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gn	=	green
bl	=	blue
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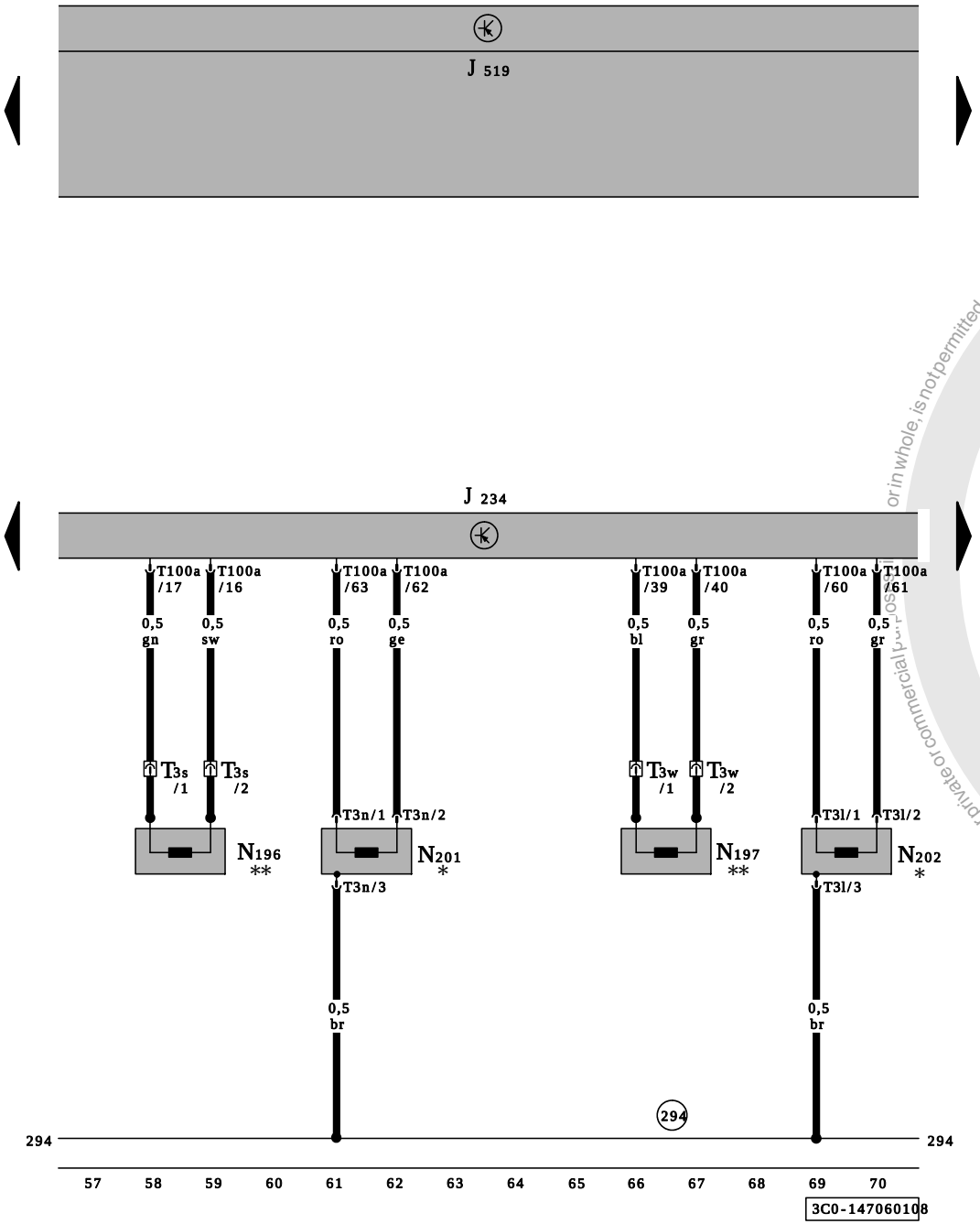


Airbag control unit, crash sensors for rear side airbags, igniters for curtain/head airbag, igniters for side airbags

G256	Rear side airbag crash sensor on driver side
G257	Rear side airbag crash sensor on front passenger side
J234	Airbag control unit
J519	Onboard supply control unit
N199	Side airbag igniter on driver side
N200	Side airbag igniter on front passenger side
N251	Driver side curtain/head airbag igniter
N252	Front passenger side curtain/head airbag igniter
T2bm	2-pin connector, yellow
T2bo	2-pin connector, yellow
T2ft	2-pin connector, yellow
T2he	2-pin connector, yellow
T2kv	2-pin connector, yellow, in driver seat
T2kw	2-pin connector, yellow, in front passenger seat
T3	3-pin connector, yellow, under driver seat
T3a	3-pin connector, yellow, under front passenger seat
T100a	100-pin connector
294	Earth connection 9, in interior wiring harness
*	Only models with side airbag
**	Only right-hand drive

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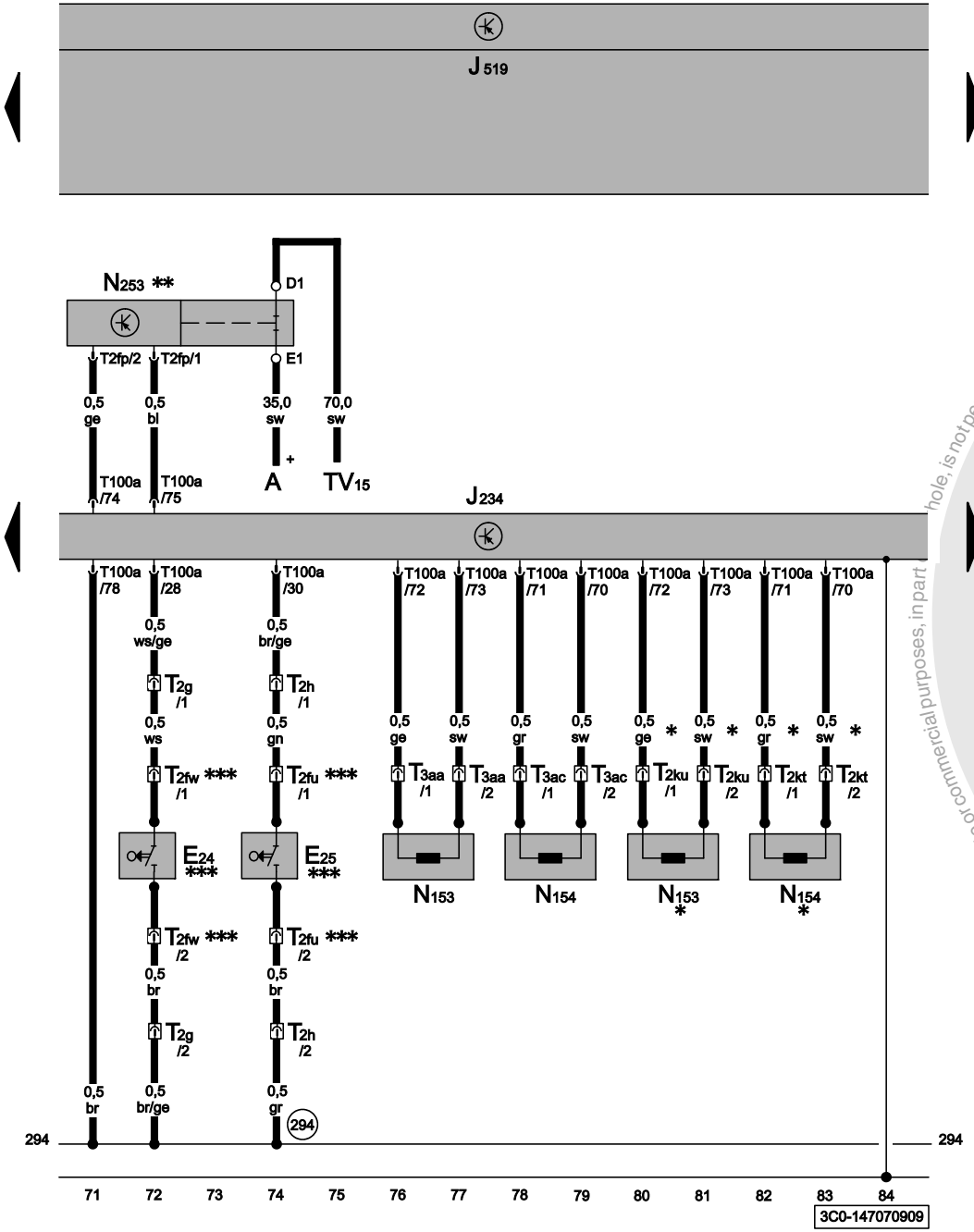


Airbag control unit, rear belt tensioner igniter, rear side airbag igniter

J234	Airbag control unit
J519	Onboard supply control unit
N196	Rear belt tensioner igniter on driver side
N197	Rear belt tensioner igniter on front passenger side
N201	Rear side airbag igniter on driver side
N202	Rear side airbag igniter on front passenger side
T3l	3-pin connector, blue
T3n	3-pin connector, blue
T3s	3-pin connector, yellow
T3w	3-pin connector, yellow
T100a	100-pin connector
(294)	Earth connection 9, in interior wiring harness
*	Only with rear side airbag
**	Only with rear belt tensioner

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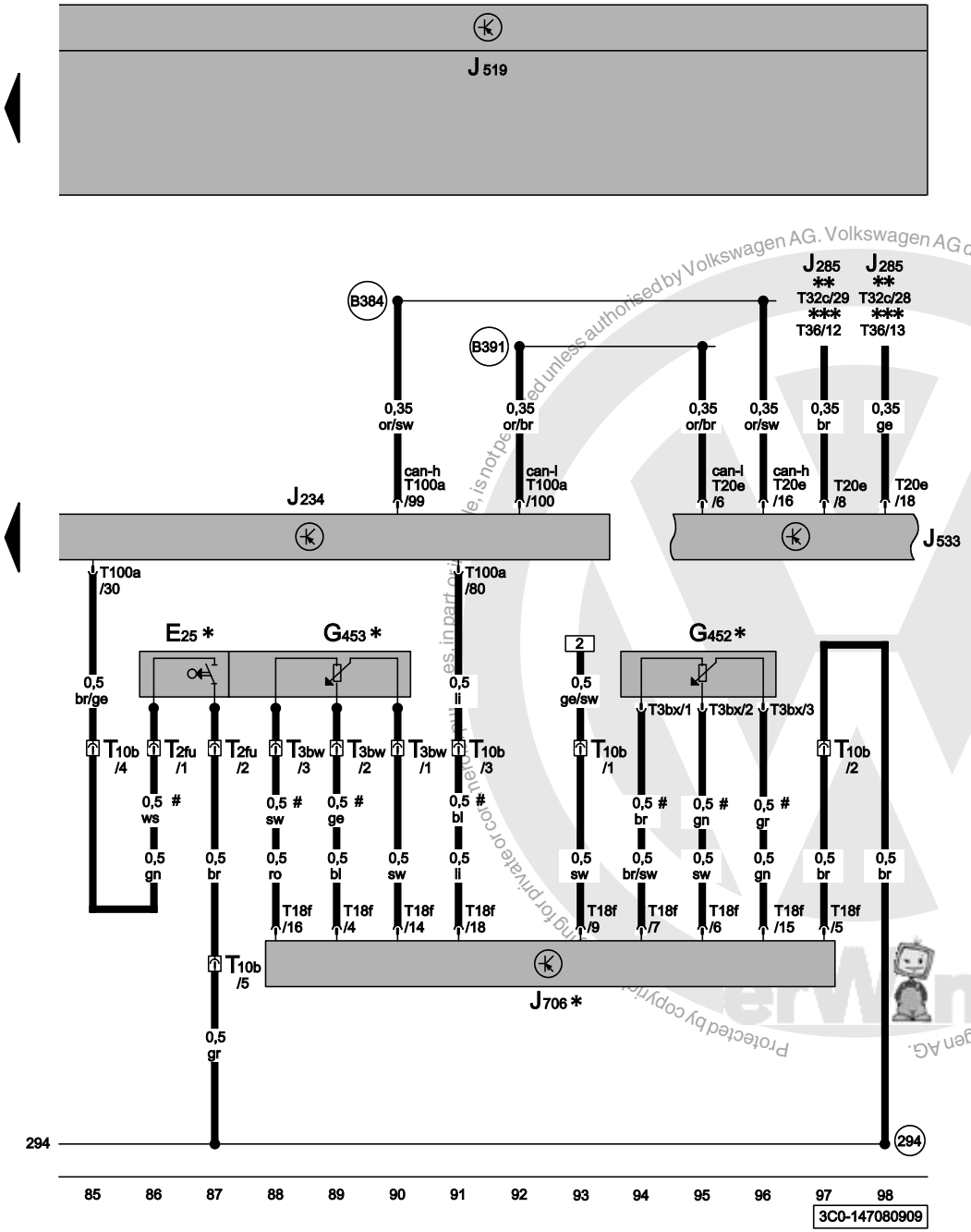


Airbag control unit, belt switch, battery isolation igniter, belt tensioner igniters on driver and front passenger sides

A	Battery
E24	Driver side belt switch
E25	Front passenger side belt switch
J234	Airbag control unit
J519	Onboard supply control unit
N153	Driver seat belt tensioner igniter 1
N154	Front passenger seat belt tensioner igniter 1
N253	Battery isolation igniter
T2g	2-pin connector, black, coupling point driver side, under seat
T2h	2-pin connector, yellow, coupling point front passenger side, under seat
T2fp	2-pin connector, purple
T2fu	2-pin connector, in front passenger seat
T2fw	2-pin connector, in driver seat
T2kt	2-pin connector, blue
T2ku	2-pin connector, orange
T3aa	3-pin connector, yellow
T3ac	3-pin connector, yellow
T100a	100-pin connector
TV15	Wiring connector
294	Earth connection 9, in interior wiring harness
*	Only for American markets
**	Only models with rear battery
***	Depends on equipment

ws	=	white
sw	=	black
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Airbag control unit, front passenger side belt switch, seat occupied recognition control unit, data bus diagnosis interface

E25	Front passenger side belt switch
G452	Pressure sensor for seat occupied recognition
G453	Seat belt force sensor for seat occupied recognition
J234	Airbag control unit
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J706	Seat occupied recognition control unit, under driver seat
T2fu	2-pin connector, in front passenger seat
T3bw	3-pin connector, in front passenger seat
T3bx	3-pin connector, in front passenger seat
T10b	10-pin connector, black, coupling point front passenger side, under seat
T18f	18-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
T100a	100-pin connector
294	Earth connection 9, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Only for American markets
**	Applicable from November 2008
***	Applicable to October 2008
#	From November 2009

ws	=	white
sw	=	black
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Basic equipment

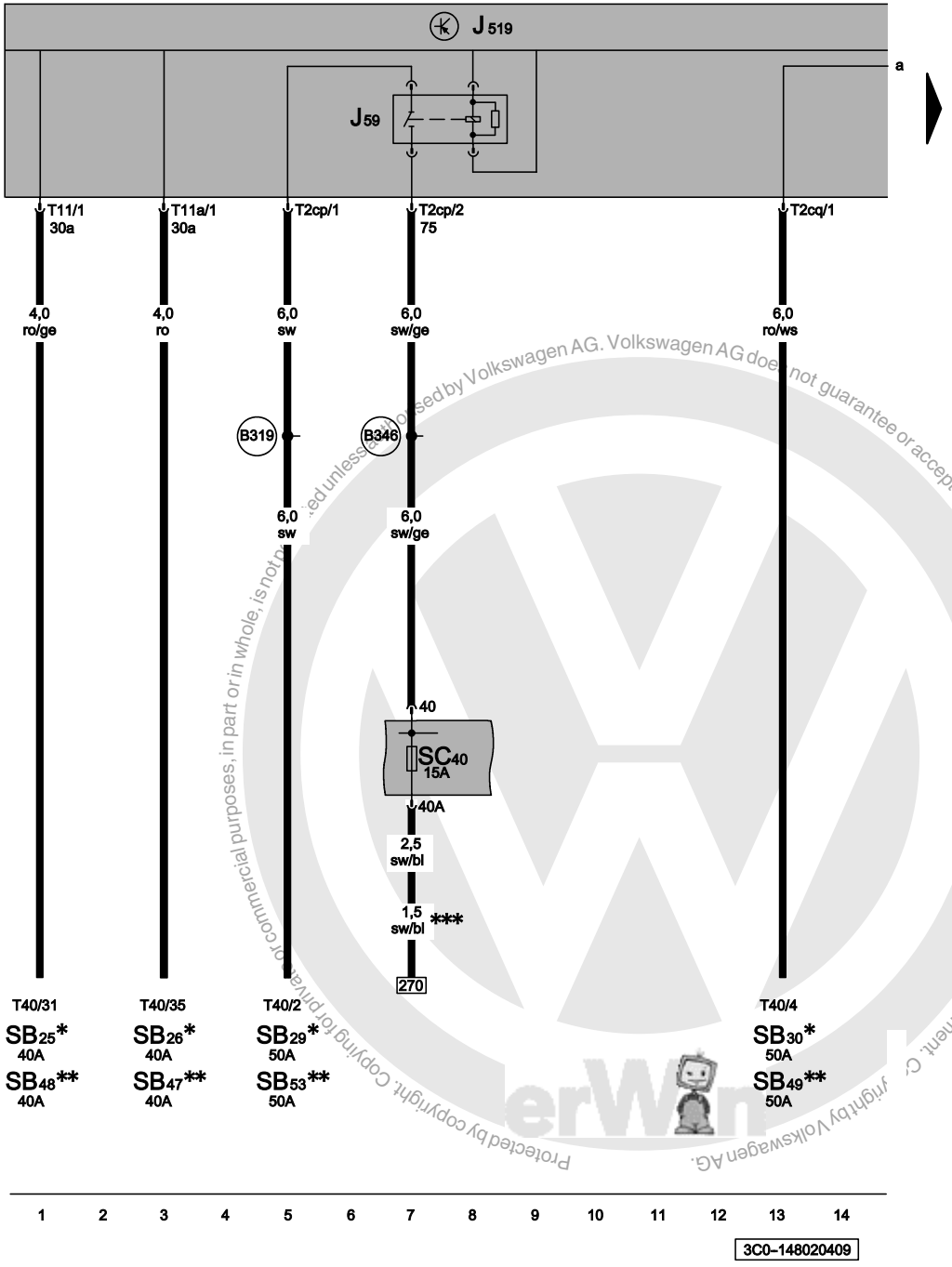
⇒ **Driving light assist**
⇒ **Rain and light sensor**
⇒ **Daytime running light**
from May 2008

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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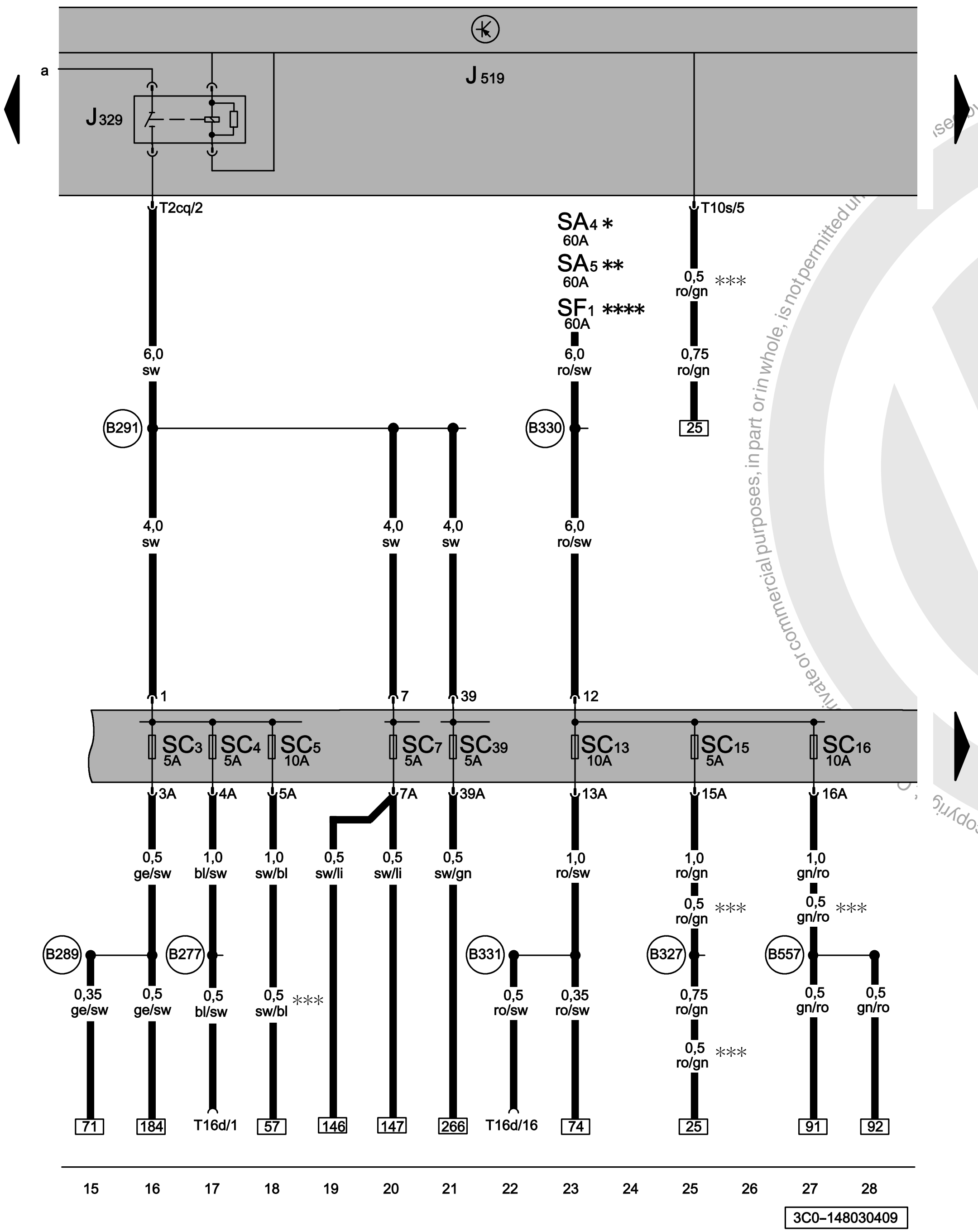


X-contact relief relay, onboard supply control unit, fuses

J59	X-contact relief relay
J519	Onboard supply control unit
SB25	Fuse 25 on fuse holder B
SB26	Fuse 26 on fuse holder B
SB29	Fuse 29 on fuse holder B
SB30	Fuse 30 on fuse holder B
SB47	Fuse 47 on fuse holder B
SB48	Fuse 48 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC40	Fuse 40 on fuse holder C
T2cp	2-pin connector, brown
T2cq	2-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
T40	40-pin connector, on E-box
B319	Connection 5 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
*	Fuses in E-box low
**	Fuses in E-box high
***	Applicable from May 2009

ws	=	white
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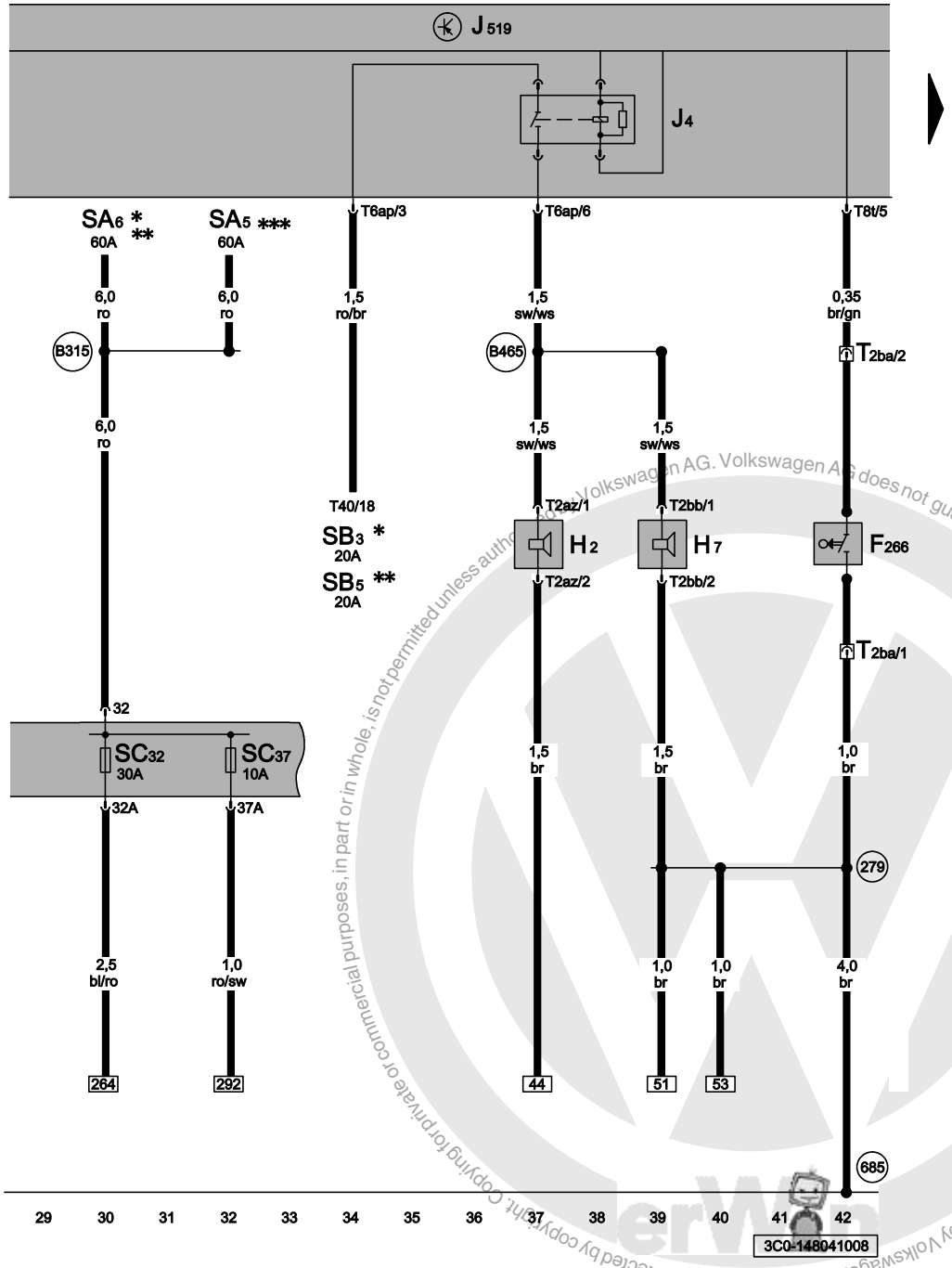
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Terminal 15 voltage supply relay, onboard supply control unit, fuses

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC3	Fuse 3 on fuse holder C
SC4	Fuse 4 on fuse holder C
SC5	Fuse 5 on fuse holder C
SC7	Fuse 7 on fuse holder C
SC13	Fuse 13 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC16	Fuse 16 on fuse holder C
SC39	Fuse 39 on fuse holder C
SF1	Fuse 1 in fuse holder F
T2cq	2-pin connector, black
T10s	10-pin connector, black
T16d	16-pin connector, self-diagnosis connection
B277	Connection 1 (15a), in main wiring harness
B289	Connection 13 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B327	Connection 13 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B331	Connection 17 (30a), in main wiring harness
B557	Connection 21 (30a), in main wiring harness
*	Fuses in E-box low
**	Fuses in E-box high
***	Applicable from May 2009
****	Only models with rear battery

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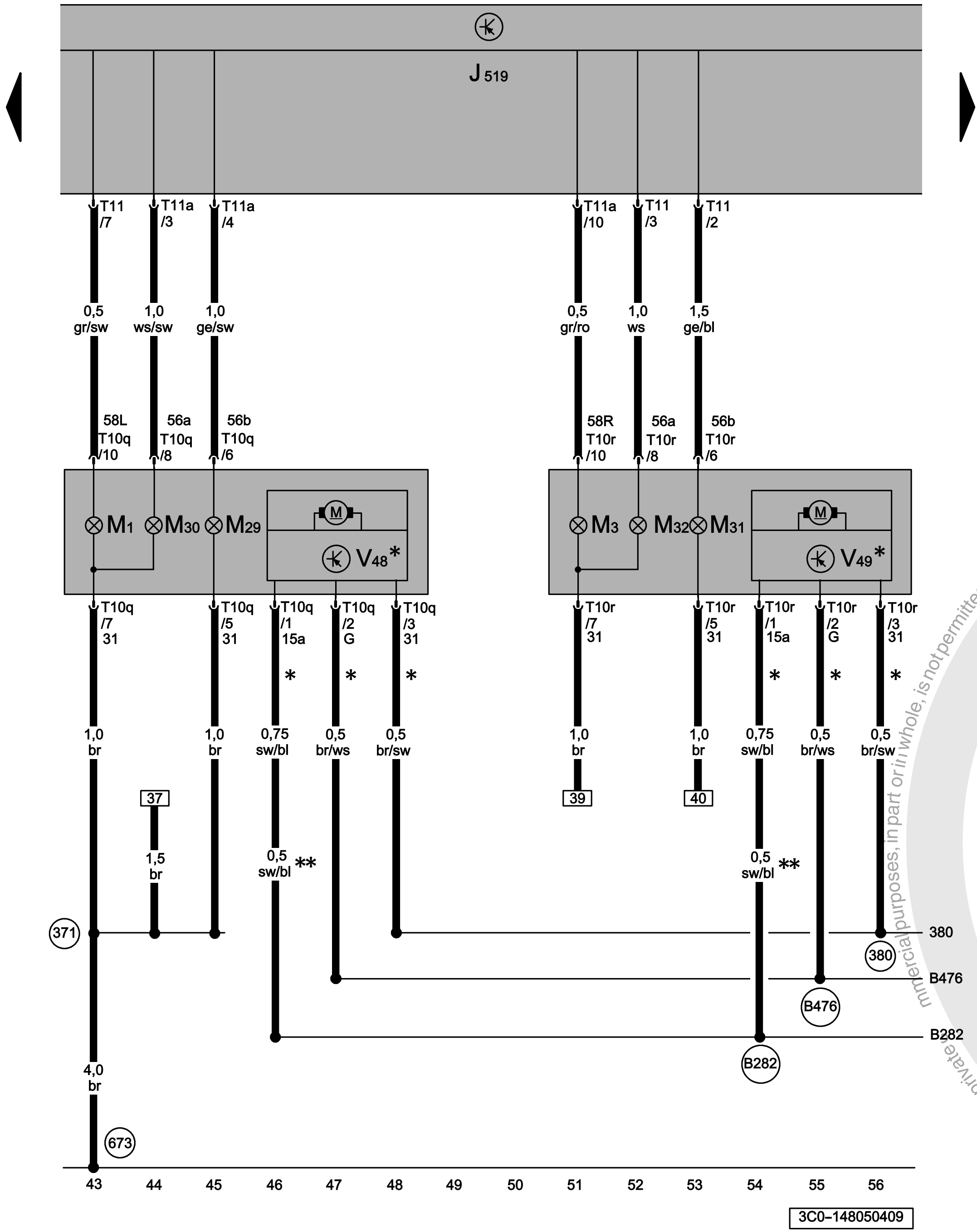


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or = orange
rs = pink

Bonnet contact switch, horn, onboard supply control unit, fuses

F266	Bonnet contact switch
H2	Treble horn
H7	Bass horn
J4	Dual tone horn relay
J519	Onboard supply control unit
SA5	Fuse 5 on fuse holder A
SA6	Fuse 6 on fuse holder A
SB3	Fuse 3 on fuse holder B
SB5	Fuse 5 on fuse holder B
SC32	Fuse 32 on fuse holder C
SC37	Fuse 37 on fuse holder C
T2az	2-pin connector
T2ba	2-pin connector, black, behind right headlight
T2bb	2-pin connector
T6ap	6-pin connector
T8t	8-pin connector, black
T40	40-pin connector, on E-box
279	Earth connection 5, in interior wiring harness
685	Earth point 1 on front of right longitudinal member
B315	Connection 1 (30a), in main wiring harness
B465	Connection 1, in main wiring harness
*	Fuses in E-box low
**	Fuses in E-box high
***	Only models with rear battery

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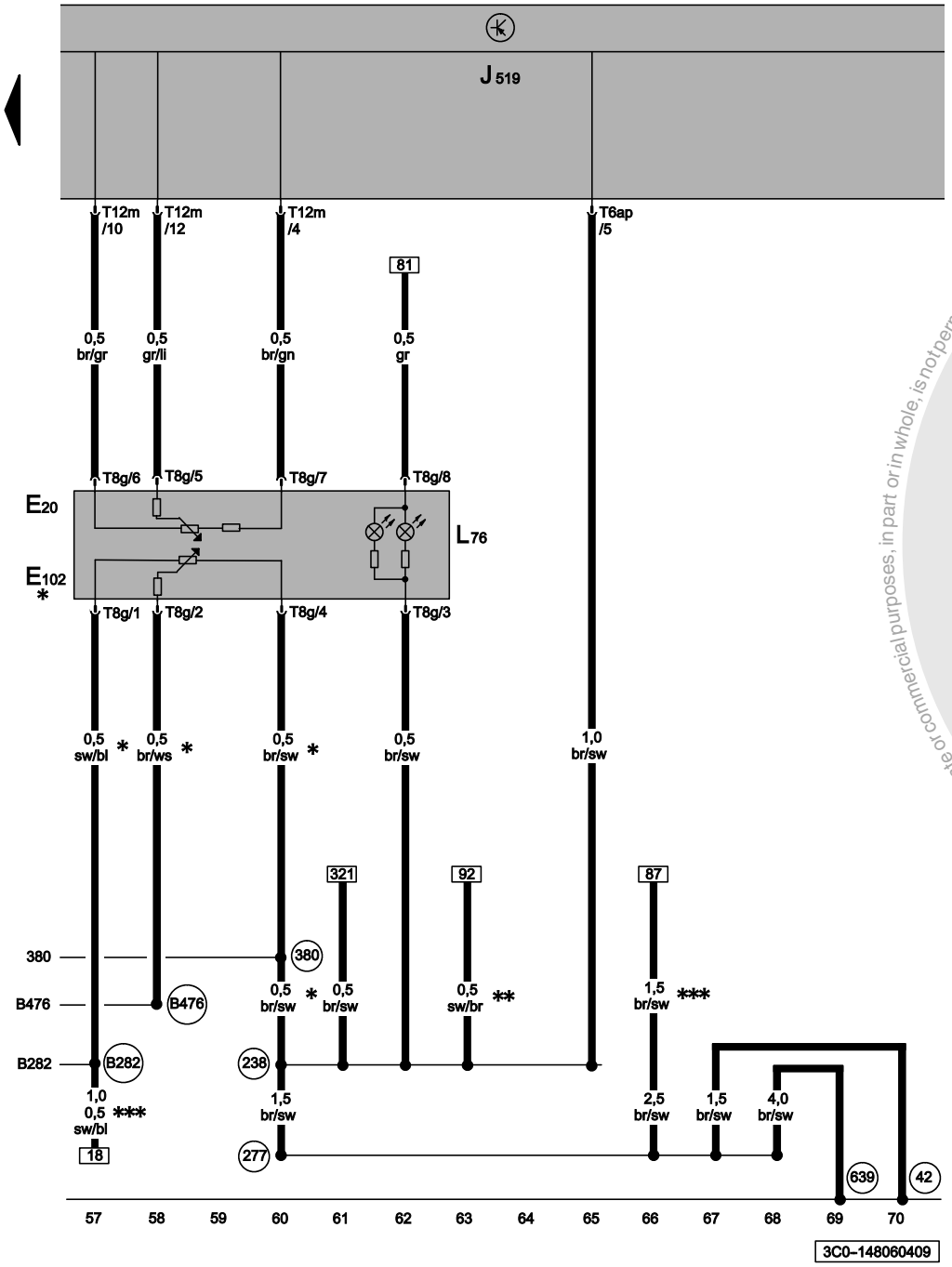


Left and right headlight

J519	Onboard supply control unit
M1	Left side light bulb
M3	Right side light bulb
M29	Left headlight dipped beam bulb
M30	Left headlight main beam bulb
M31	Right headlight dipped beam bulb
M32	Right headlight main beam bulb
T10q	10-pin connector, black
T10r	10-pin connector, black
T11	11-pin connector, black
T11a	11-pin connector, brown
V48	Left headlight range control motor
V49	Right headlight range control motor
371	Earth connection 6, in main wiring harness
380	Earth connection 15, in main wiring harness
673	Earth point 3, on front of left longitudinal member
B282	Connection 6 (15a), in main wiring harness
B476	Connection 12, in main wiring harness
*	Not for American markets
**	Applicable from May 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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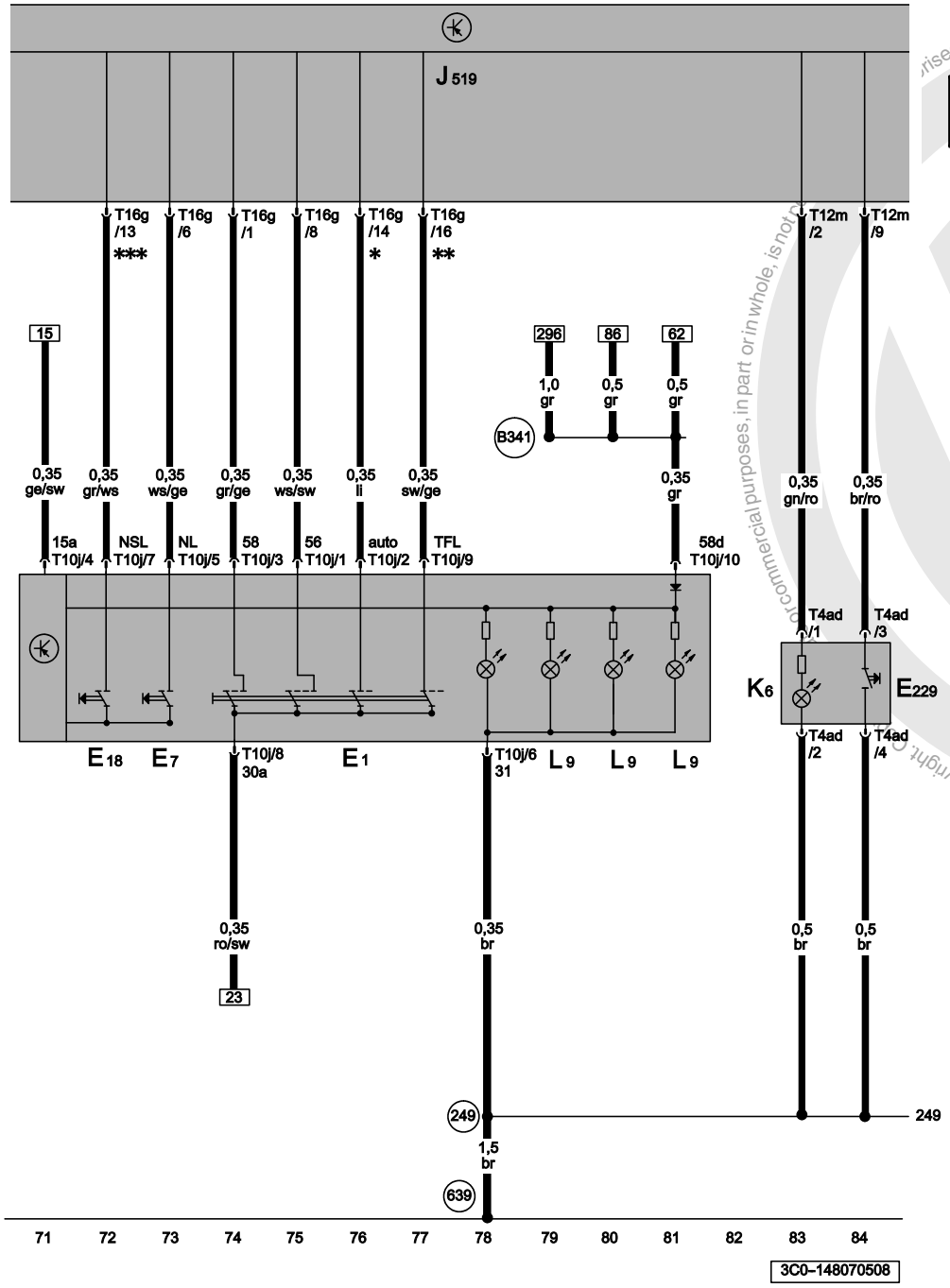


Switch and instrument illumination regulator, button illumination bulb, headlight range control adjuster

E20	Switch and instrument illumination regulator
E102	Headlight range control regulator
J519	Onboard supply control unit
L76	Button illumination bulb
T6ap	6-pin connector, black
T8g	8-pin connector
T12m	12-pin connector, black
42	Earth point, next to steering column
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
380	Earth connection 15, in main wiring harness
639	Earth point, left A-pillar
B282	Connection 6 (15a), in main wiring harness
B476	Connection 12, in main wiring harness
*	Not for American markets
**	Only models with stop/start system
***	Applicable from May 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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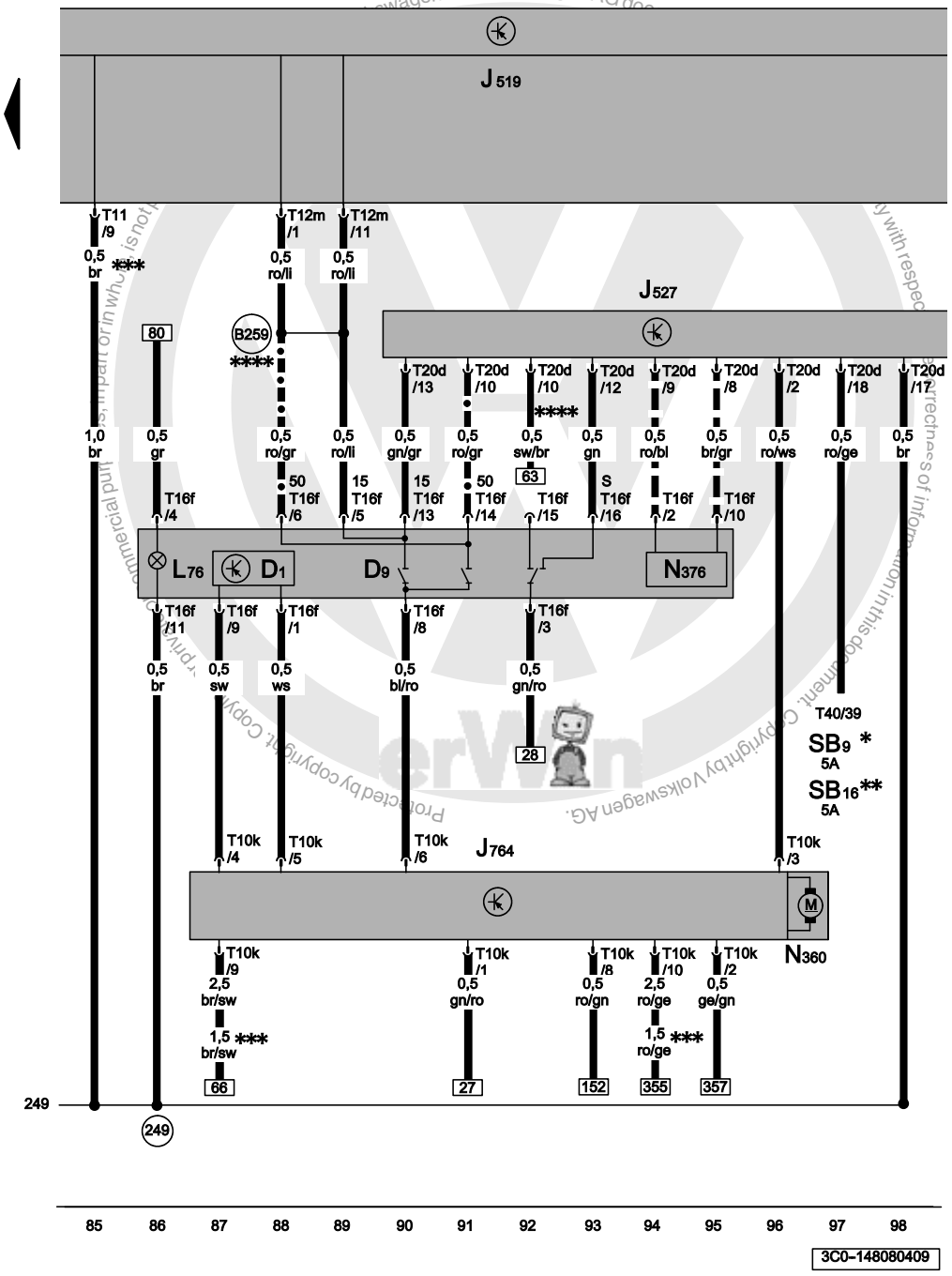


Light switch, fog light switch, light switch illumination bulb, hazard warning lights button, rear fog light switch, warning lamp for hazard warning lights

E1	Light switch
E7	Fog light switch
E18	Rear fog light switch
E229	Hazard warning lights button
J519	Onboard supply control unit
K6	Indicator lamp for hazard warning light
L9	Light switch illumination bulb
T4ad	4-pin connector
T10j	10-pin connector, black
T12m	12-pin connector, black
T16g	16-pin connector, black
(249)	Earth connection 2, in interior wiring harness
(639)	Earth point, left A-pillar
(B341)	Connection 2 (58d), in main wiring harness
*	Only models with driving lights assist
**	Only models with daytime running lights
***	Depends on equipment for American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

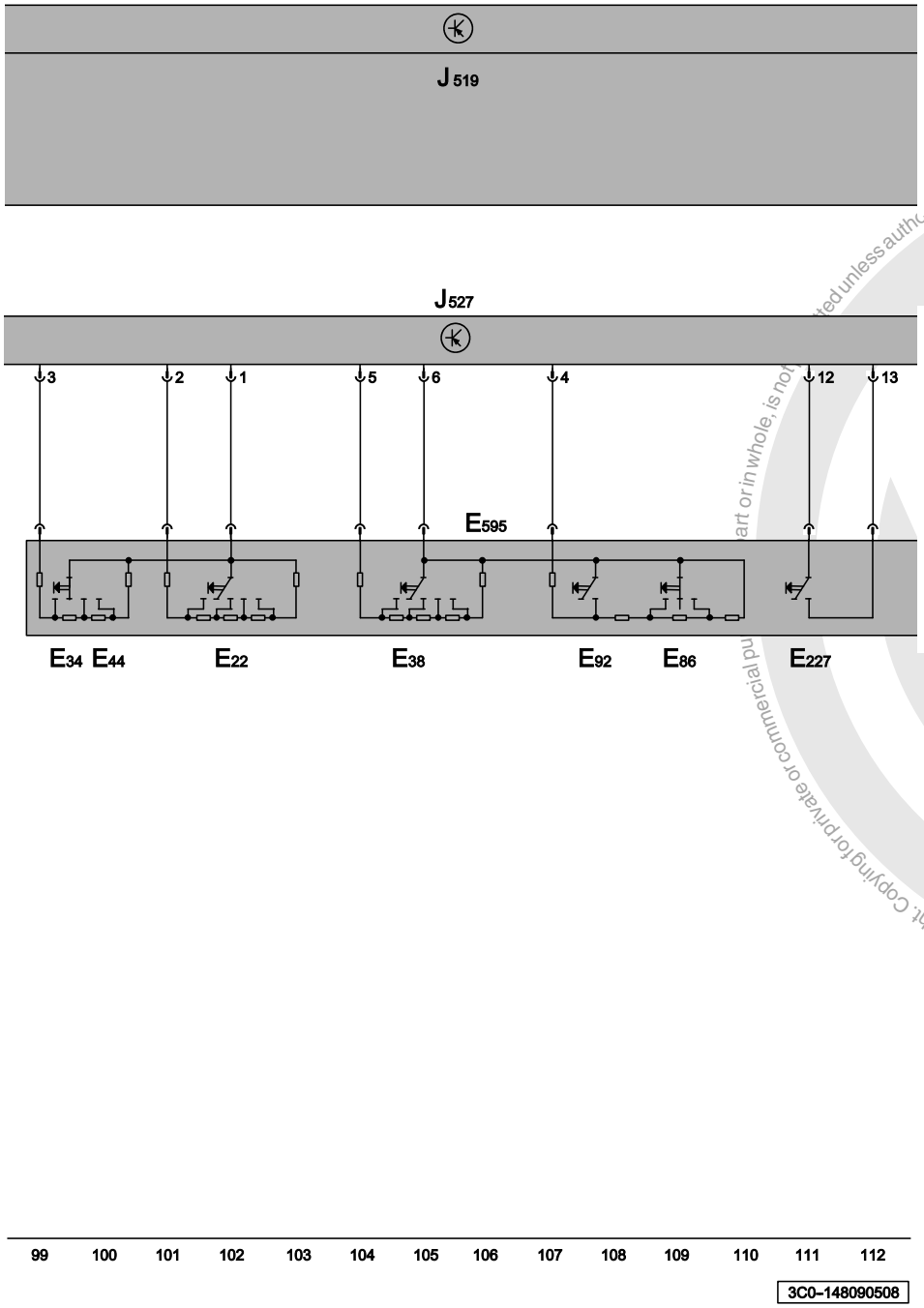
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Immobilizer reading unit, control unit for electronic steering column lock, control unit for steering column electronics, electronic ignition lock, ignition key withdrawal lock solenoid, onboard supply control unit

D1	Immobiliser reading unit
D9	Electronic ignition lock
J519	Onboard supply control unit
J527	Steering column electronics control unit
J764	Electronic steering column lock control unit
L76	Button illumination bulb
N360	Steering column lock control element
N376	Ignition key withdrawal lock solenoid
SB9	Fuse 9 on fuse holder B
SB16	Fuse 16 on fuse holder B
T10k	10-pin connector
T11	11-pin connector, black
T12m	12-pin connector, black
T16f	16-pin connector
T20d	20-pin connector
T40	40-pin connector
249	Earth connection 2, in interior wiring harness
B259	Connection (start/stop signal), in interior wiring harness
*	Fuses in E-box low
**	Fuses in E-box high
***	Applicable from May 2009
****	Only models with stop/start system
---	Only models with Tiptronic
-●-	Only models with no stop/start system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

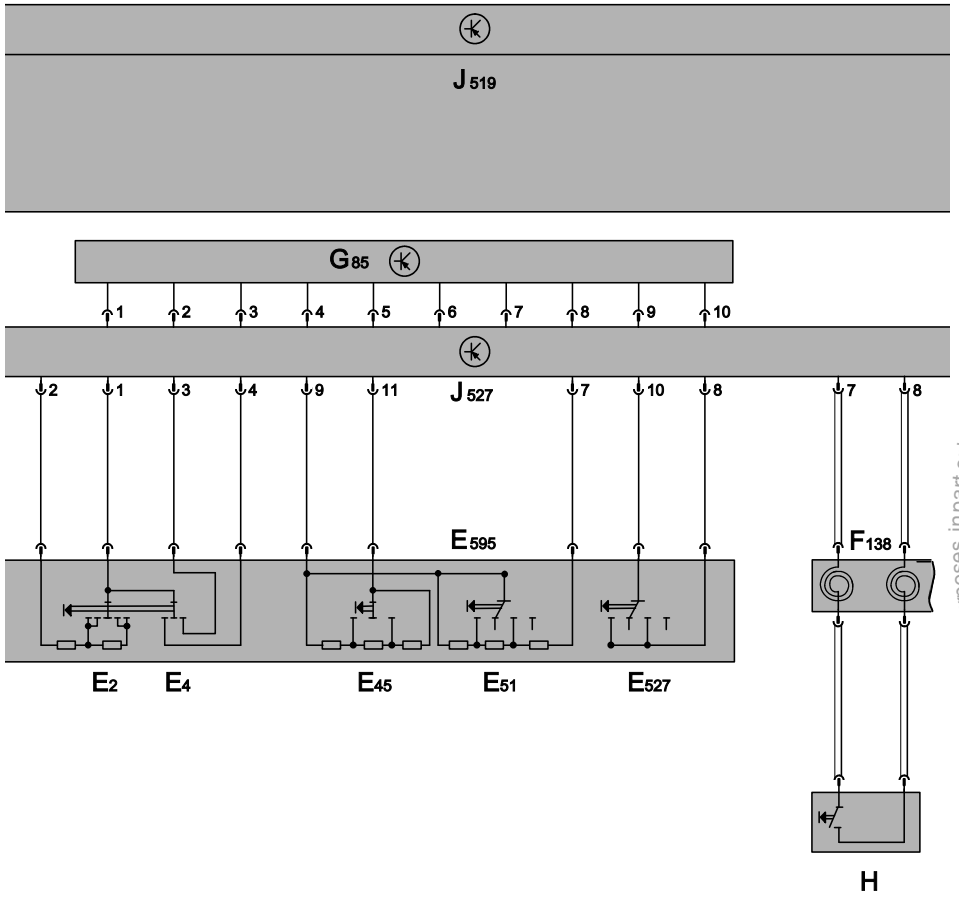


Steering column combination switch, onboard supply control unit, steering column electronics control unit

E22	Intermittent wiper switch
E34	Rear wiper switch
E38	Intermittent wipe regulator
E44	Washer pump switch (automatic wash/wipe and headlight washer system)
E86	Multifunction display call-up button
E92	Reset button
E227	Cruise control system (CCS) SET button
E595	Steering column combination switch
J519	Onboard supply control unit
J527	Steering column electronics control unit

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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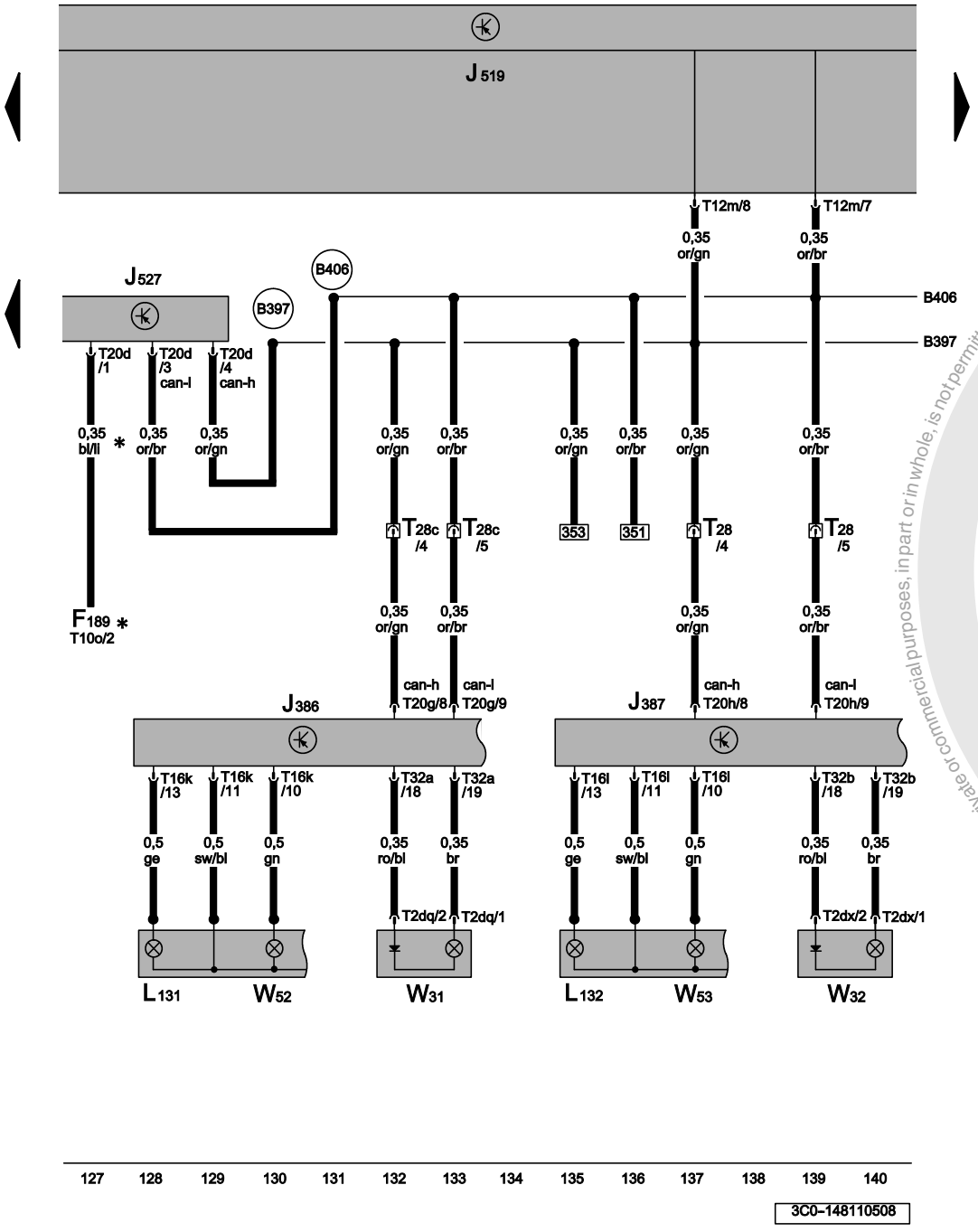


Steering column combination switch, airbag coil connector and return spring with slip ring, steering angle sender, onboard supply control unit, control unit for steering column electronics, horn plate

E2	Turn signal switch
E4	Headlight dipper and flasher switch
E45	Cruise control system switch
E51	Cruise control system master switch
E527	Button to temporarily switch cruise control system (CCS) off
E595	Steering column combination switch
F138	Airbag coil connector and return ring with slip ring
G85	Steering angle sender
H	Horn plate
J519	Onboard supply control unit
J527	Steering column electronics control unit
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ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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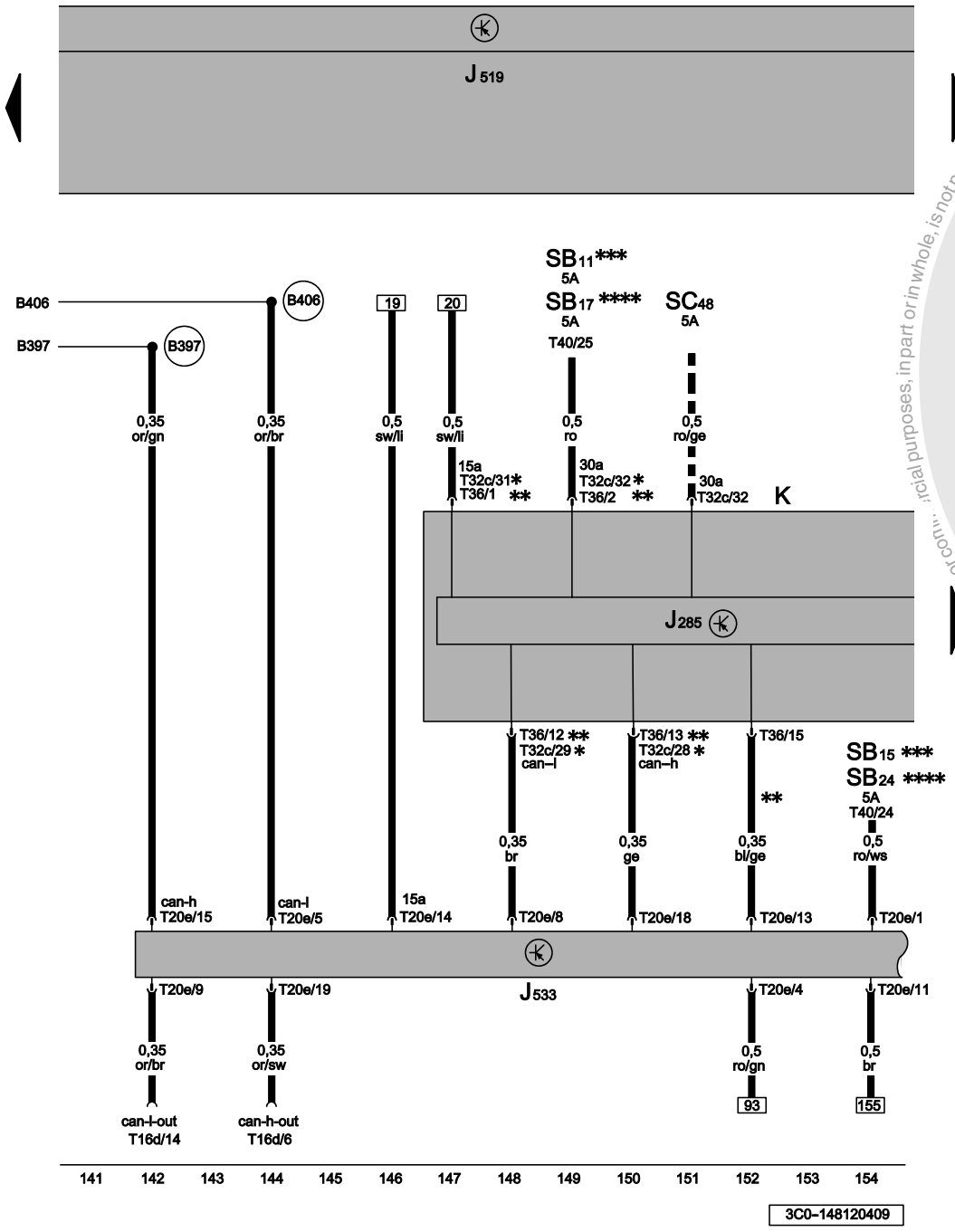


Tiptronic switch, door control units, front entry lights, exterior mirror turn signal bulb, entry lights in exterior mirror

F189	Tiptronic switch
J386	Driver door control unit
J387	Front passenger side door control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
L131	Driver side exterior mirror turn signal bulb
L132	Front passenger side exterior mirror turn signal bulb
T2dq	2-pin connector
T2dx	2-pin connector
T10o	10-pin connector
T12m	12-pin connector
T16k	16-pin connector
T16l	16-pin connector
T20d	20-pin connector
T20g	20-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
T32a	32-pin connector
T32b	32-pin connector, grey
W31	Front left entry light
W32	Front right entry light
W52	Driver side entry light in exterior mirror
W53	Front passenger side entry light in exterior mirror
(B397)	Connection 1 (convenience CAN bus, high), in main wiring harness
(B406)	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only models with automatic gearbox

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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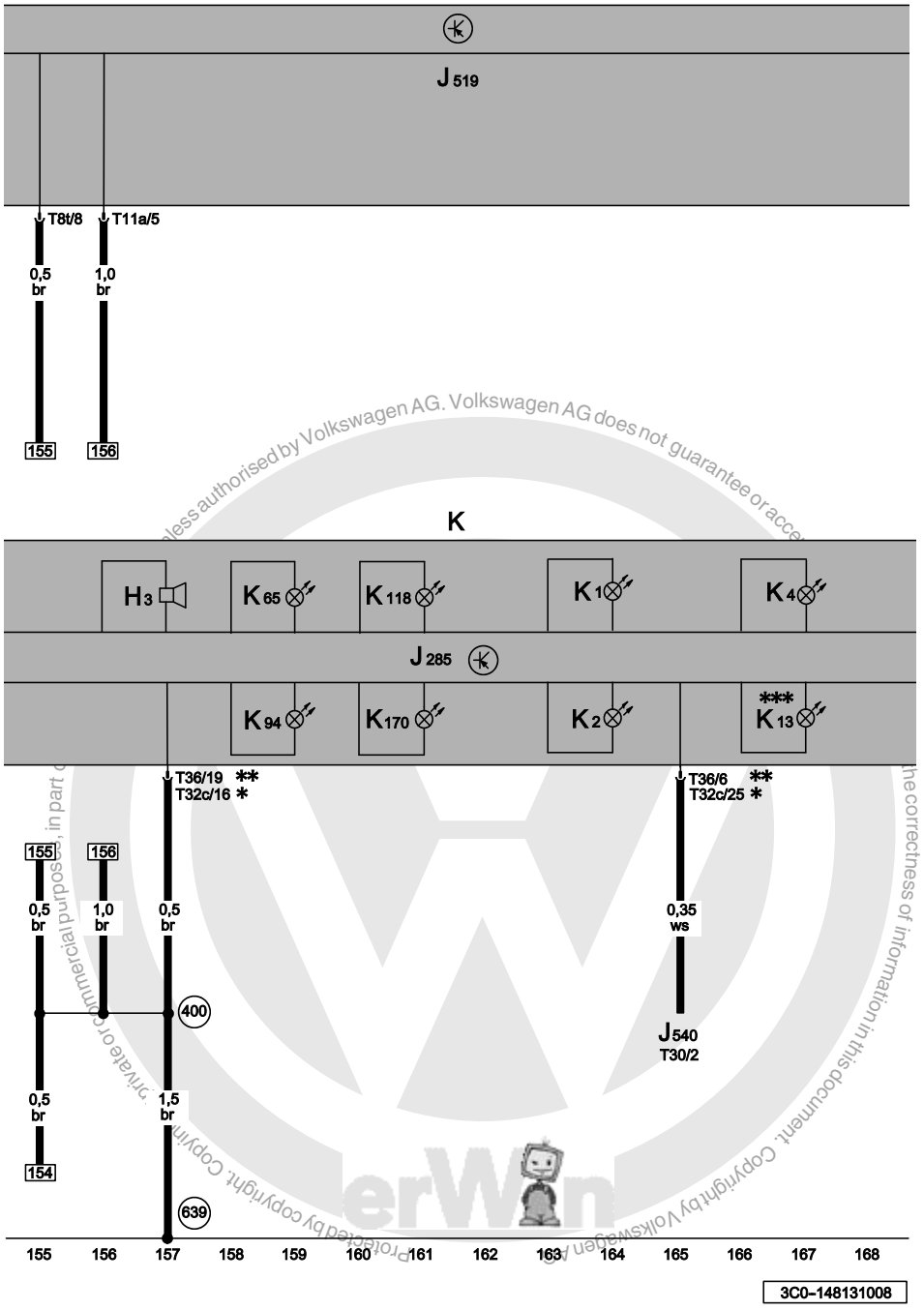


Dash panel insert, data bus diagnosis interface, self-diagnosis connection

J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
K	Dash panel insert
SB11	Fuse 11 on fuse holder B
SB15	Fuse 15 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB24	Fuse 24 on fuse holder B
SC48	Fuse 48 on fuse holder C
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
T40	40-pin connector, on E-box
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Applicable from November 2008
**	Applicable to October 2008
***	Only models with E-box low
****	Only models with E-box high
---	Only models with stop/start system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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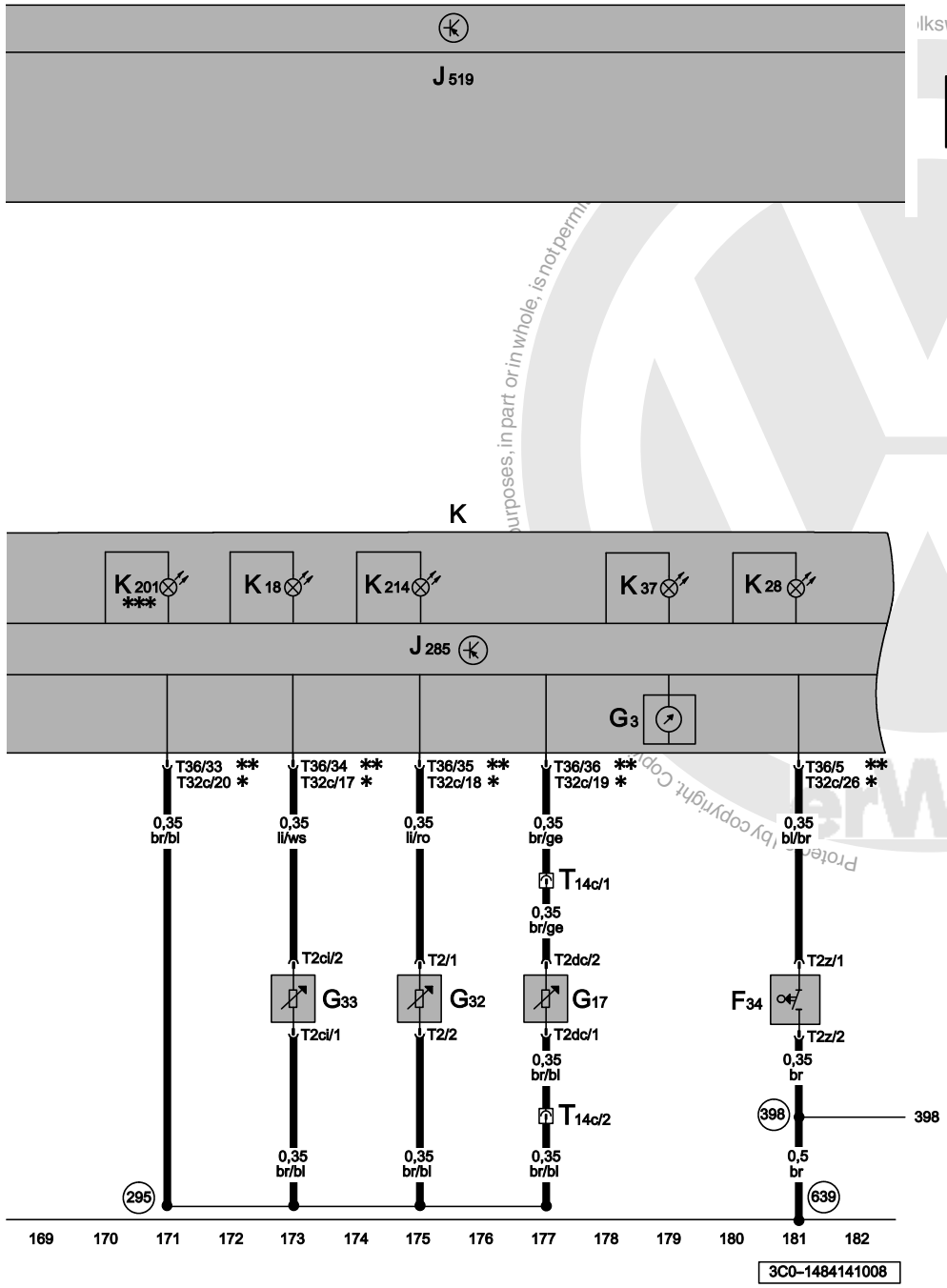


Dash panel insert, control unit in dash panel insert, warning lamps

H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
K	Dash panel insert
K1	Main beam warning lamp
K2	Alternator warning lamp
K4	Side light warning lamp
K13	Rear fog light warning lamp
K65	Left turn signal warning lamp
K94	Right turn signal warning lamp
K118	Brake system warning lamp
K170	Bulb failure warning lamp
T8t	8-pin connector, black
T11a	11-pin connector, brown
T30	30-pin connector
T32c	32-pin connector
T36	36-pin connector
400	Earth connection 35, in main wiring harness
639	Earth point, left A-pillar
*	Applicable from November 2008
**	Applicable to October 2008
***	Depends on equipment for American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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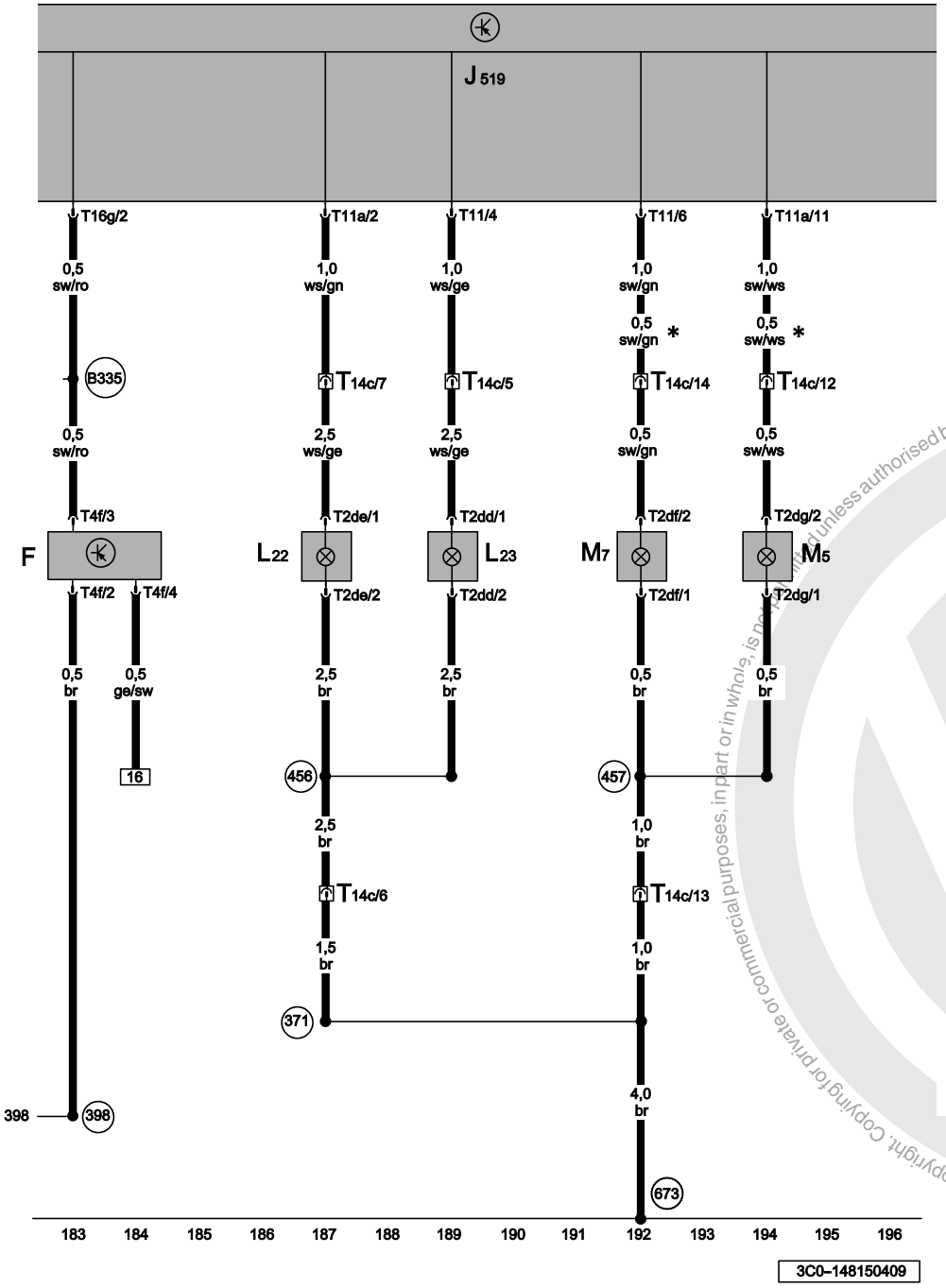


Dash panel insert, brake fluid level warning contact, ambient temperature sensor, coolant shortage indicator sender, washer fluid level sender

F34	Brake fluid level warning contact
G3	Coolant temperature gauge
G17	Ambient temperature sensor
G32	Coolant shortage indicator sender
G33	Windscreen washer fluid level sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K18	Trailer operation warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K37	Washer fluid level warning lamp
K201	Fuel tank flap lock warning lamp
K214	Electric parking brake and handbrake fault warning lamp
T2	2-pin connector
T2z	2-pin connector
T2ci	2-pin connector
T2dc	2-pin connector
T14c	14-pin connector, coupling point, front bumper
T32c	32-pin connector
T36	36-pin connector
295	Earth connection 10, in interior wiring harness
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
*	Applicable from November 2008
**	Applicable to October 2008
***	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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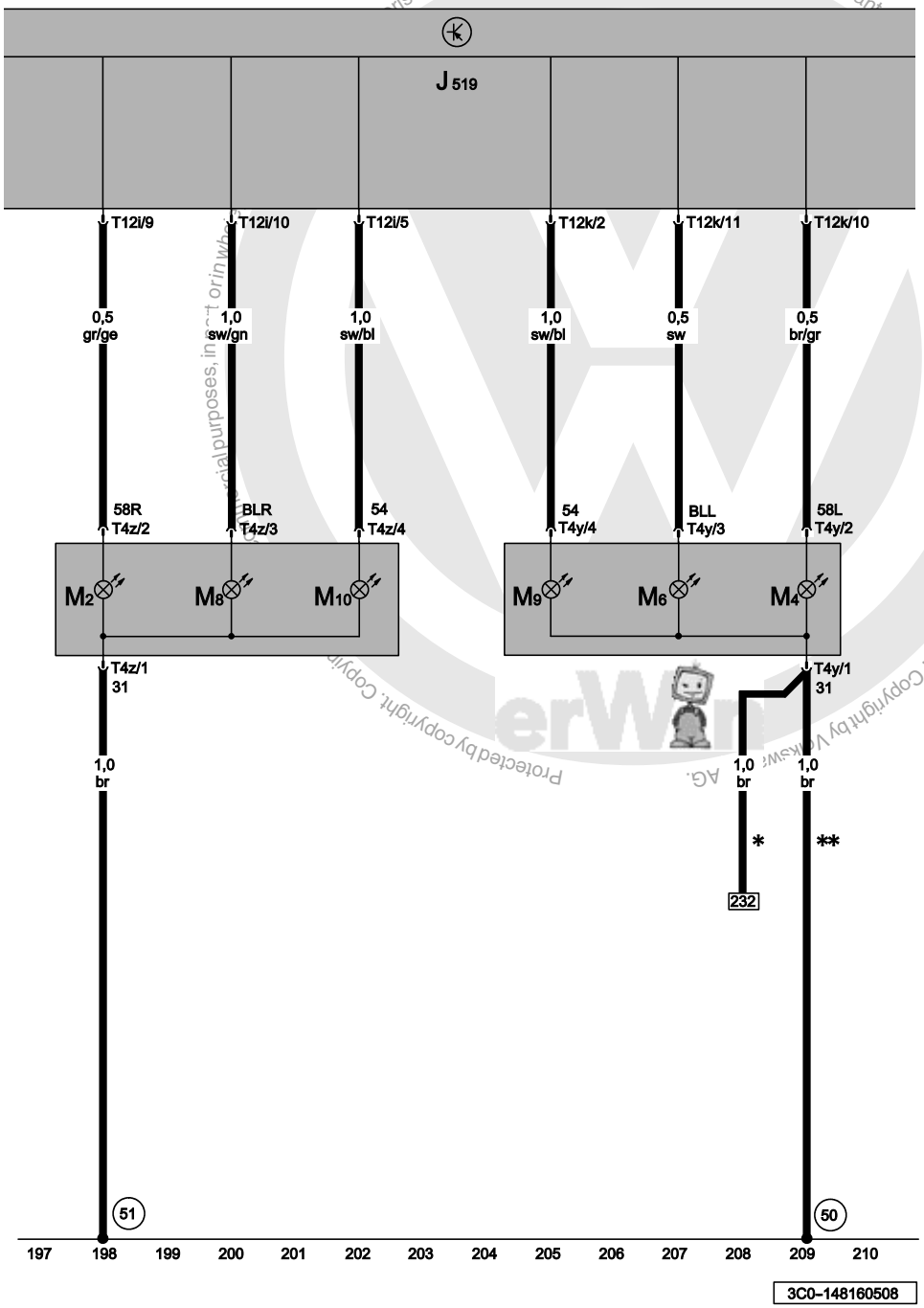


Onboard supply control unit, front turn signal bulbs, rear fog light bulbs, brake light switch

F	Brake light switch
J519	Onboard supply control unit
L22	Left fog light bulb
L23	Right fog light bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
T2dd	2-pin connector
T2de	2-pin connector
T2df	2-pin connector
T2dg	2-pin connector
T4f	4-pin connector
T11	11-pin connector, black
T11a	11-pin connector, brown
T14c	14-pin connector, front bumper coupling point, left
T16g	16-pin connector, black
371	Earth connection 6, in main wiring harness
398	Earth connection 33, in main wiring harness
456	Earth connection 1, front bumper wiring harness
457	Earth connection 2, front bumper wiring harness
673	Earth point 3, on front of left longitudinal member
B335	Connection 1 (54), in main wiring harness
*	Applicable from May 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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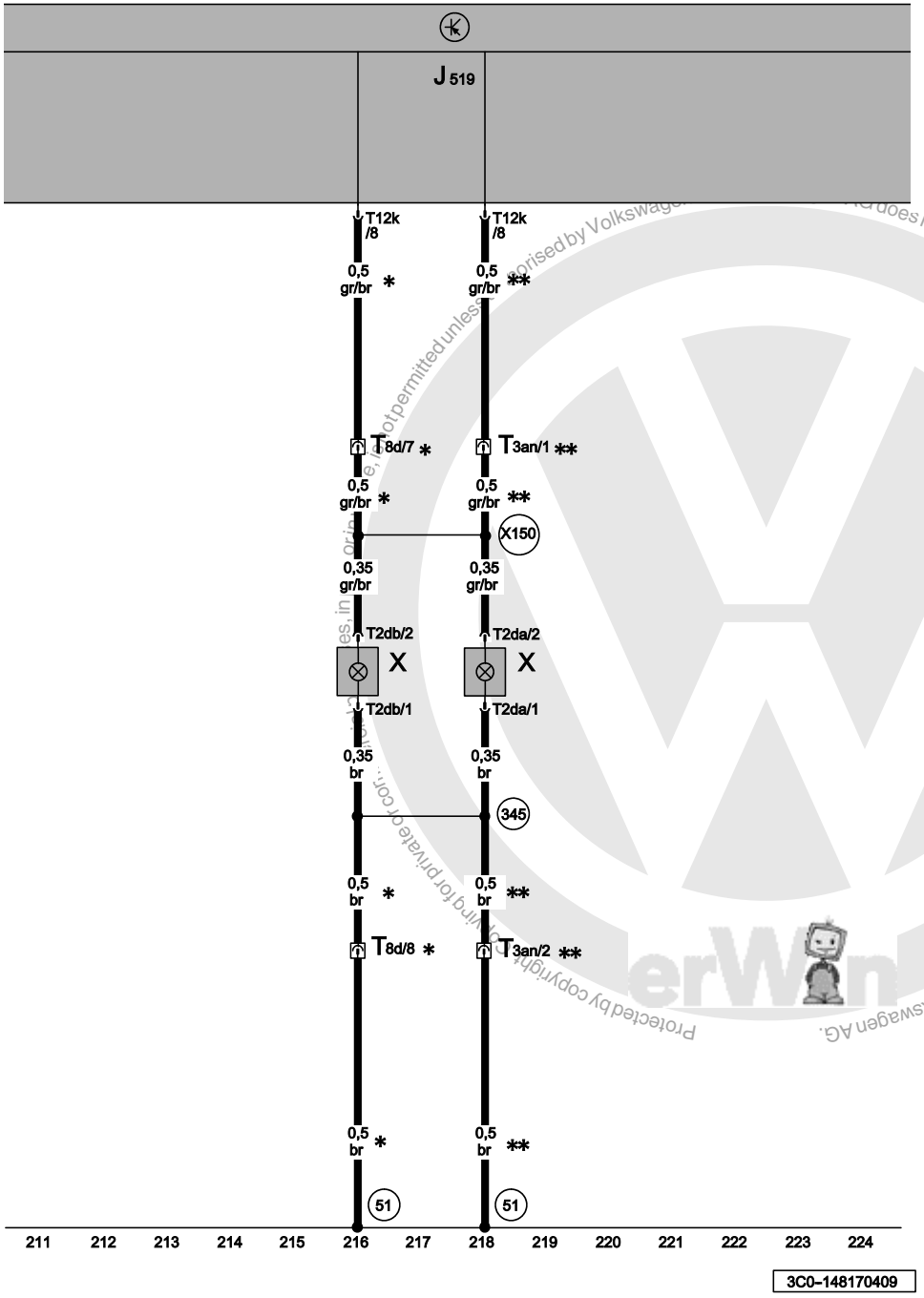


Onboard supply control unit, tail light bulbs, turn signal bulbs, brake light bulbs

J519	Onboard supply control unit
M2	Right tail light bulb
M4	Left tail light bulb
M6	Rear left turn signal bulb
M8	Rear right turn signal bulb
M9	Left brake light bulb
M10	Right brake light bulb
T4y	4-pin connector
T4z	4-pin connector
T12i	12-pin connector, black
T12k	12-pin connector, brown
50	Earth point, on left in luggage compartment
51	Earth point, on right in luggage compartment
*	Only saloon models
**	Only Variant

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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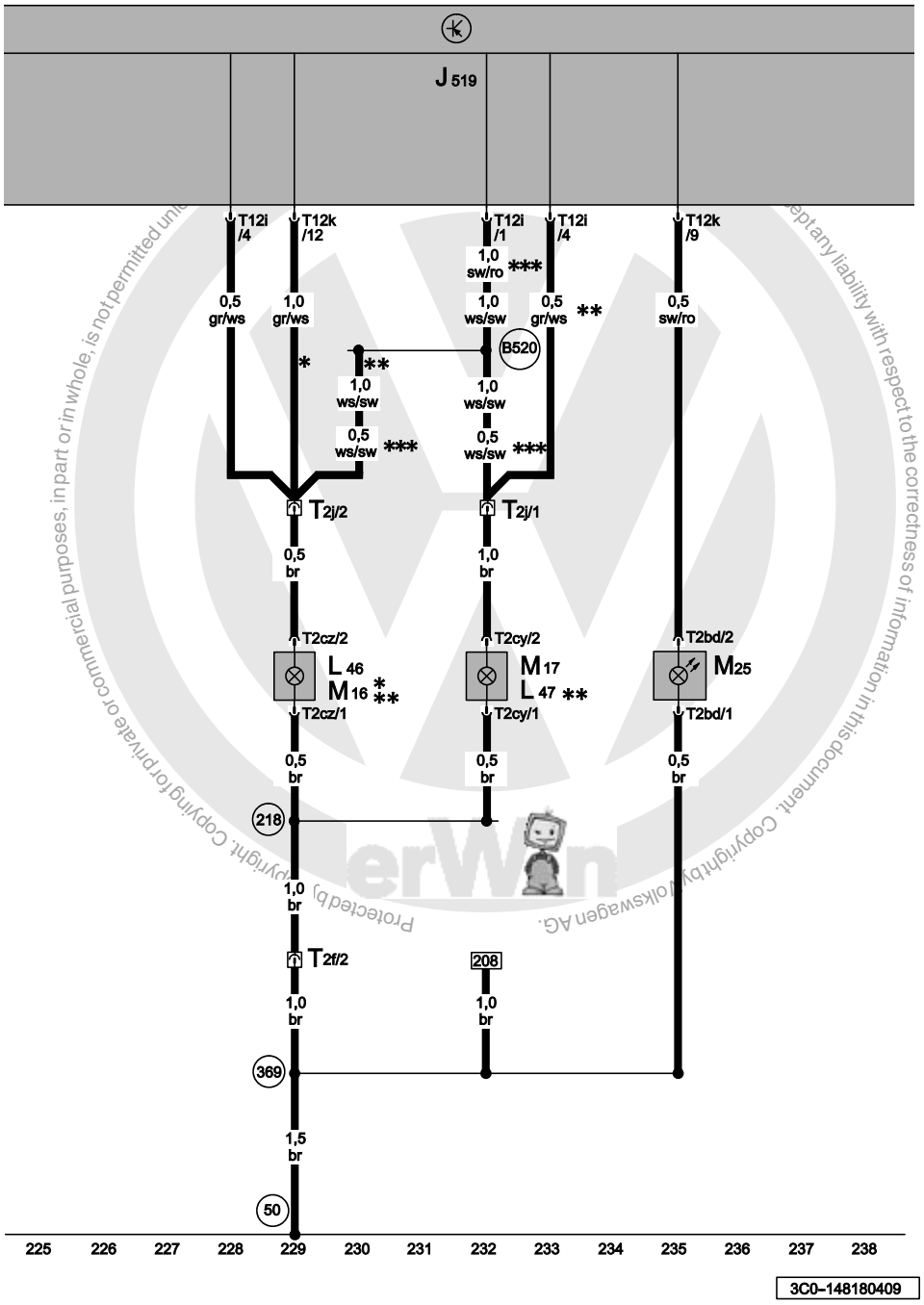


Onboard supply control unit, number plate lights (saloon)

J519	Onboard supply control unit
T2da	2-pin connector
T2db	2-pin connector
T3an	3-pin connector, black, coupling point, rear bumper
T8d	8-pin connector, black, coupling point, rear bumper
T12k	12-pin connector, brown
X	Number plate light
345	Earth connection, in bumper wiring harness
51	Earth point, on right in luggage compartment
X150	Connection (58), rear bumper wiring harness
*	Only models with parking aid
**	Only models with no parking aid

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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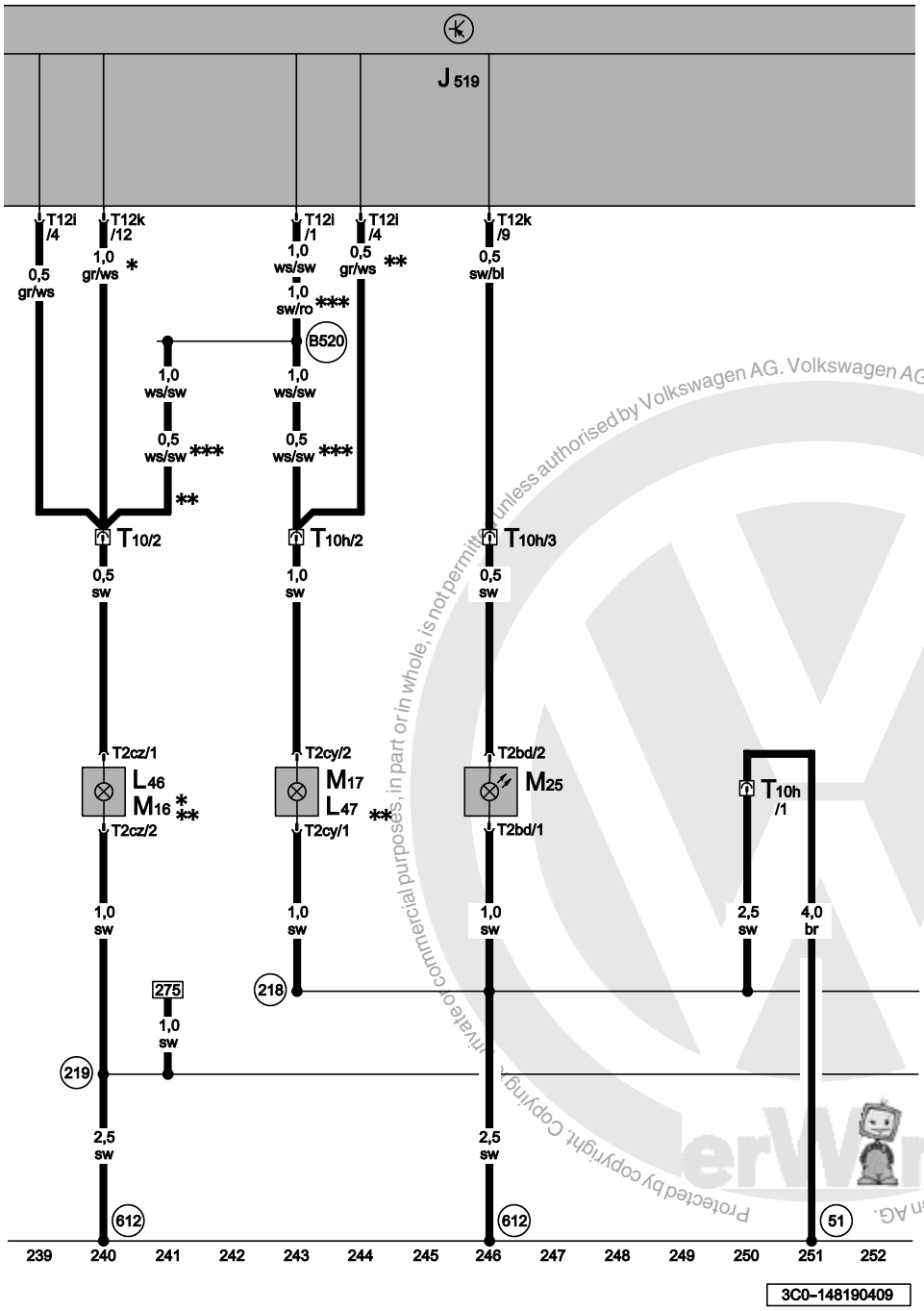


Rear lights (saloon)

J519	Onboard supply control unit
L46	Rear left fog light bulb
L47	Rear right fog light bulb
M16	Left reversing light bulb
M17	Right reversing light bulb
M25	High-level brake light bulb
T2f	2-pin connector, green, rear lid coupling point
T2j	2-pin connector, blue, rear lid coupling point
T2bd	2-pin connector
T2cy	2-pin connector
T2cz	2-pin connector
T12i	12-pin connector, black
T12k	12-pin connector, brown
50	Earth point, on left in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
B520	Connection (RL), in main wiring harness
*	Only for American markets
**	Only Japanese markets
***	Applicable from May 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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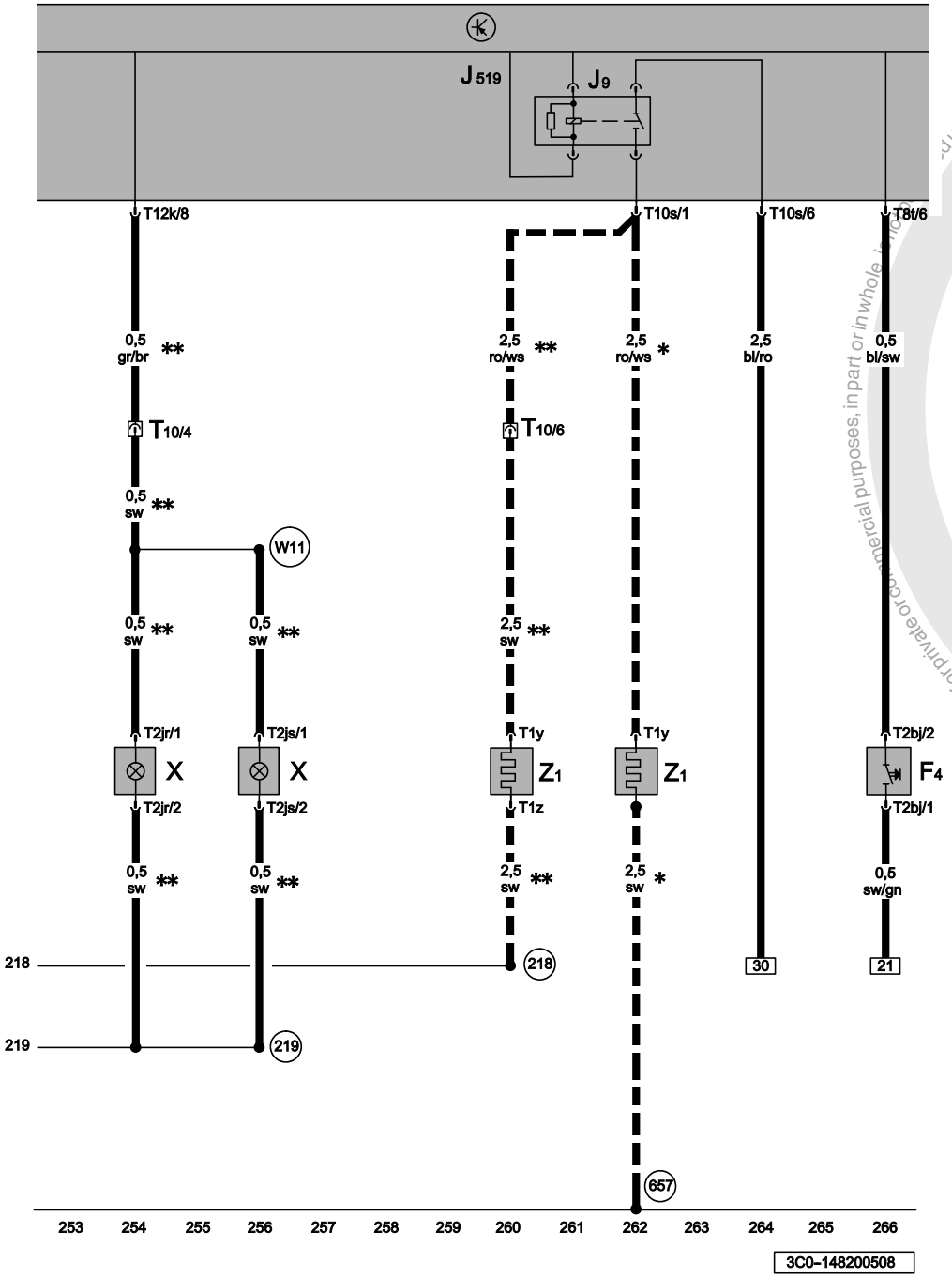


Rear lights (Variant)

J519	Onboard supply control unit
L46	Rear left fog light bulb
L47	Rear right fog light bulb
M16	Left reversing light bulb
M17	Right reversing light bulb
M25	High-level brake light bulb
T2bd	2-pin connector, black
T2cy	2-pin connector
T2cz	2-pin connector
T10	10-pin connector, coupling point on left of rear lid
T10h	10-pin connector, coupling point, on right of rear lid
T12i	12-pin connector, black
T12k	12-pin connector, brown
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
219	Earth connection 2, in rear lid wiring harness
612	Earth point, centre on rear lid
B520	Connection (RL), in main wiring harness
*	Only for American markets
**	Only Japanese markets
***	Applicable from May 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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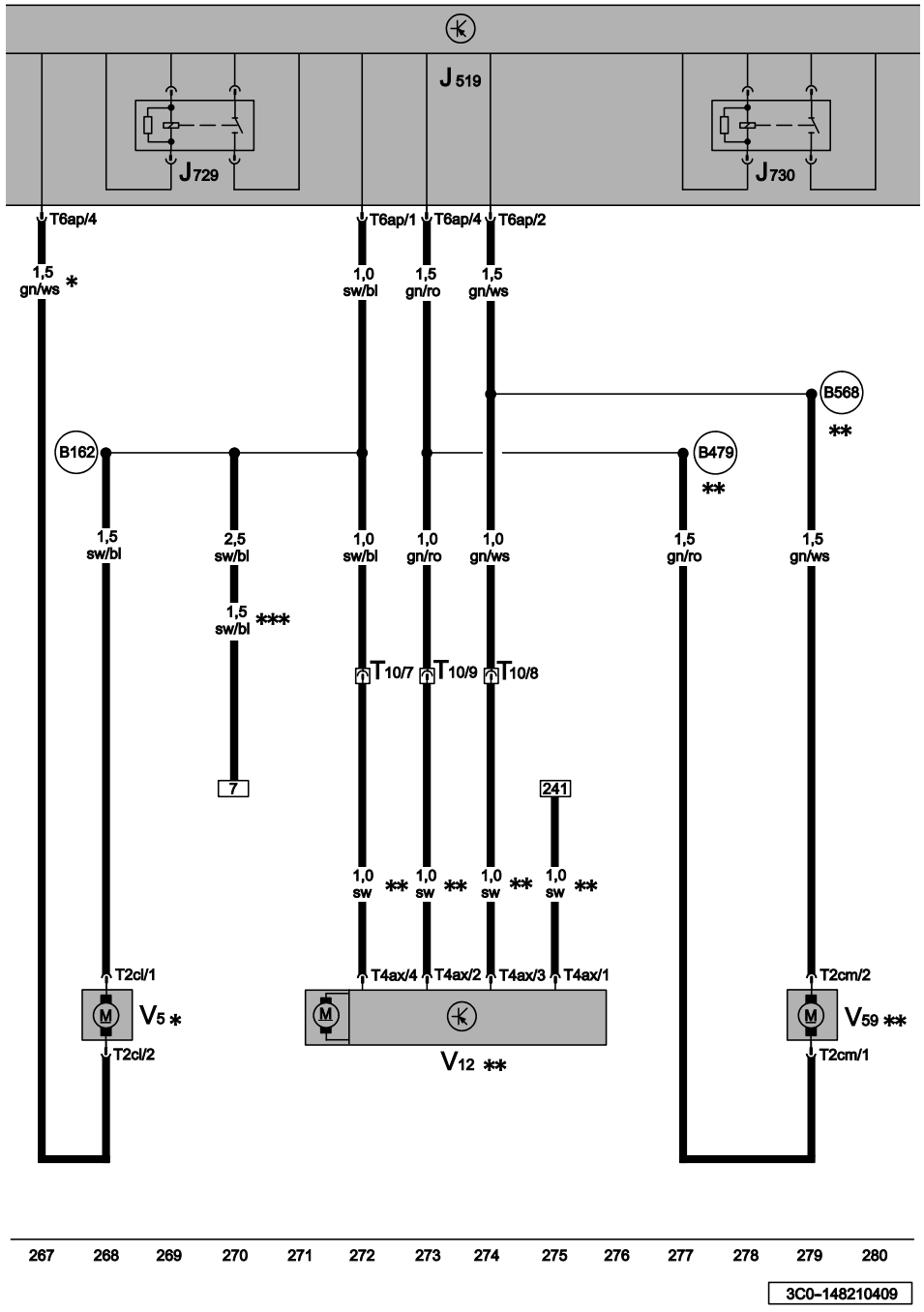


Reversing light switch, relay for heated rear window, number plate lights (Variant), heated rear window

F4	Reversing light switch
J9	Heated rear window relay
J519	Onboard supply control unit
T1y	Single connector
T1z	Single connector
T2bj	2-pin connector
T2jr	2-pin connector
T2js	2-pin connector
T8t	8-pin connector
T10	10-pin connector, coupling point on left of rear lid
T10s	10-pin connector, black
T12k	12-pin connector, brown
X	Number plate light
Z1	Heated rear window
218	Earth connection 1, in rear lid wiring harness
219	Earth connection 2, in rear lid wiring harness
657	Earth point 1, on left near rear window
W11	Connection (58), in rear lid wiring harness
*	Only saloon models
**	Only Variant
---	Only models with no radio

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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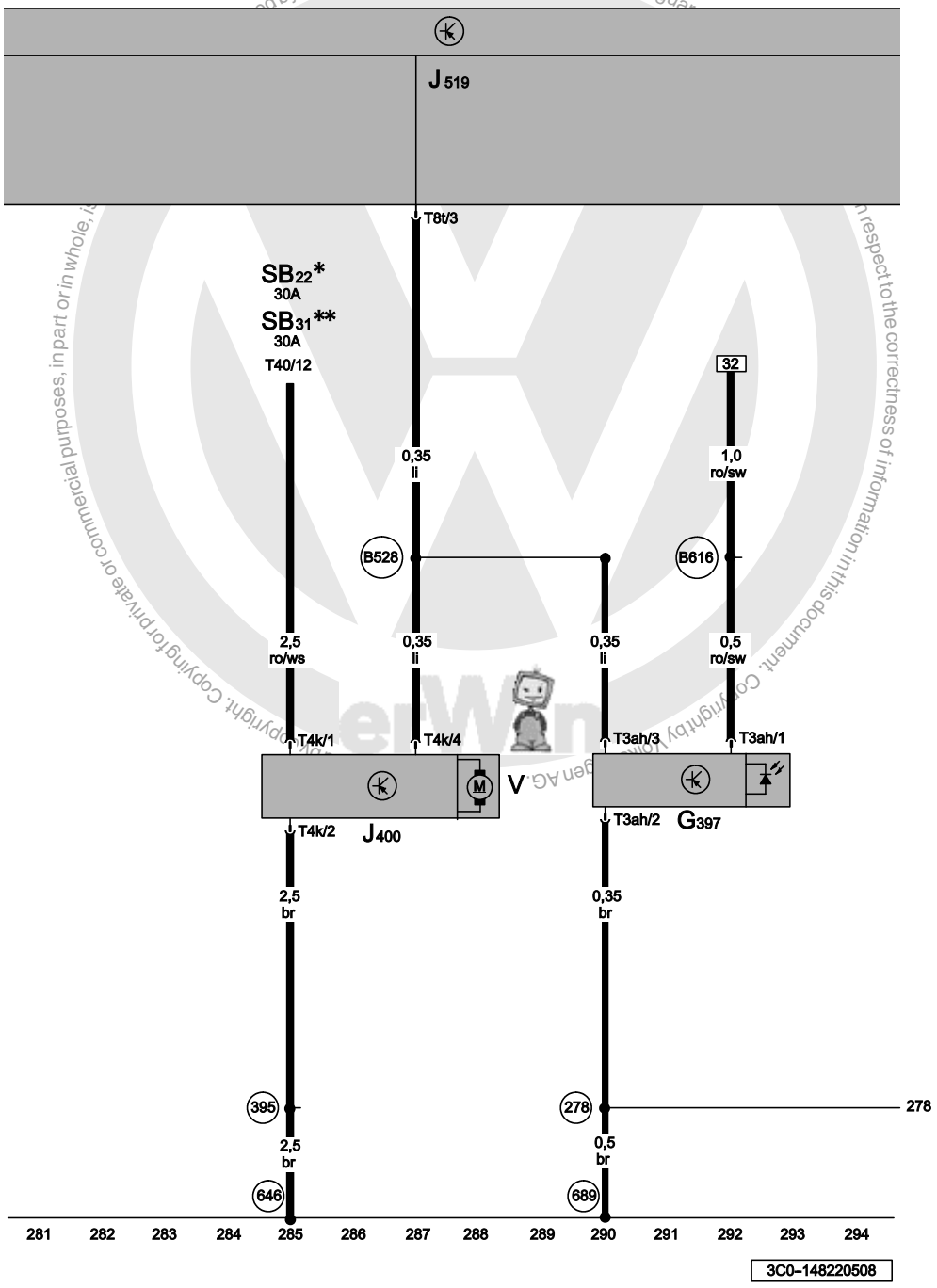


Rear window wiper motor, washer pump, relay 1 and 2 for double washer pump, windscreen and rear window washer pump

J519	Onboard supply control unit
J729	Double washer pump relay 1
J730	Double washer pump relay 2
T2cl	2-pin connector
T2cm	2-pin connector
T4ax	4-pin connector, black
T6ap	6-pin connector, black
T10	10-pin connector, coupling point on left of rear lid
V5	Washer pump
V12	Rear window wiper motor
V59	Windscreen and rear window washer pump
B162	Connection (75a), in interior wiring harness
B479	Connection 15, in main wiring harness
B568	Connection 35, in main wiring harness
*	Only saloon models
**	Only Variant
***	Applicable from May 2009

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ro	=	red
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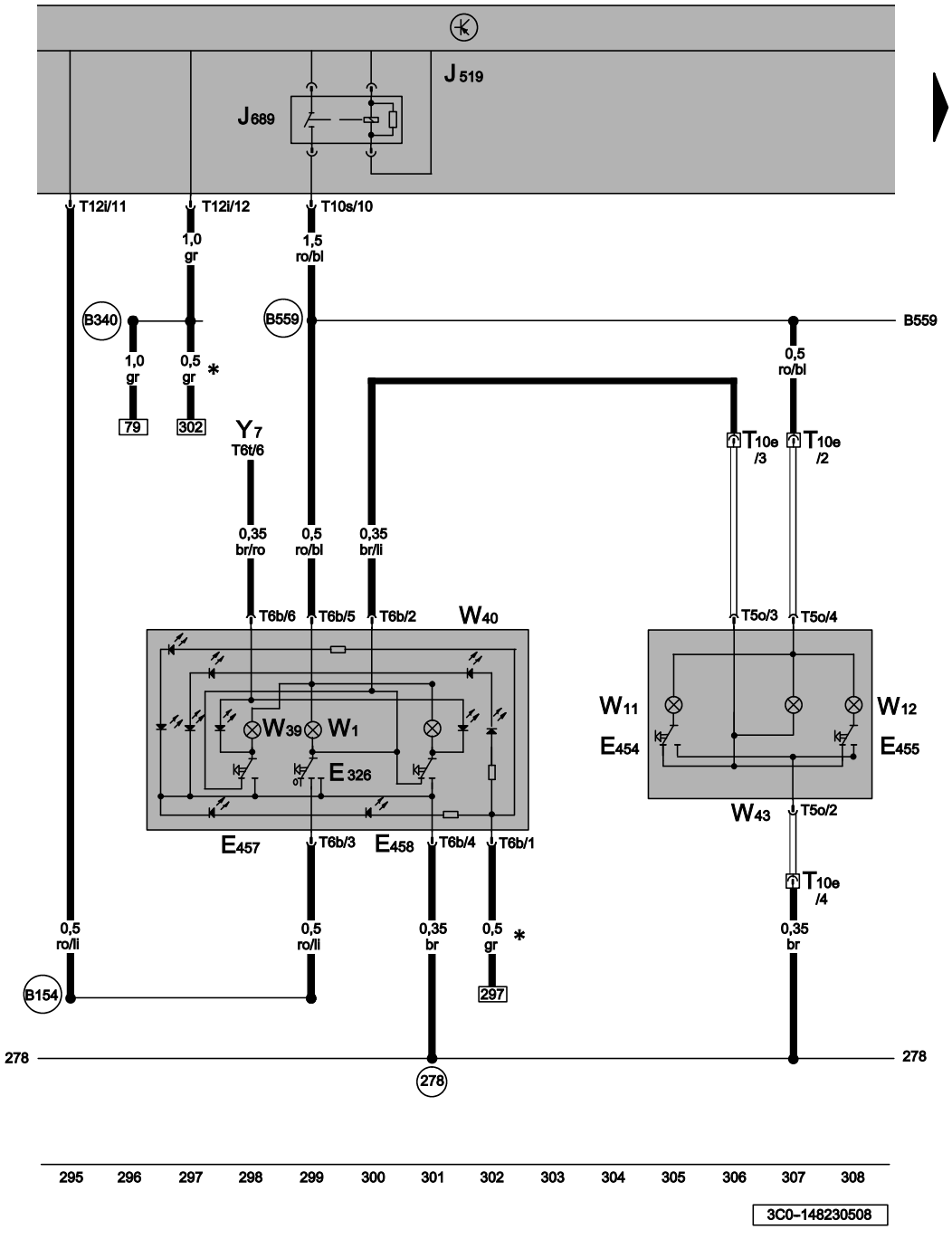
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Onboard supply control unit, rain and light detector sensor, wiper motor control unit, wiper motor

G397	Rain and light sensor
J400	Wiper motor control unit
J519	Onboard supply control unit
SB22	Fuse 22 on fuse holder B
SB31	Fuse 31 on fuse holder B
T3ah	3-pin connector, black
T4k	4-pin connector, black
T8t	8-pin connector, black
T40	40-pin connector, on E-box
V	Windscreen wiper motor
278	Earth connection 4, in interior wiring harness
395	Earth connection 30, in main wiring harness
646	Earth point 2, on bulkhead
689	Earth point, on front centre of roof
B528	Connection 1 (LIN bus), in main wiring harness
B616	Positive connection 12 (30a), in interior wiring harness
*	Fuses in E-box low
**	Fuses in E-box high

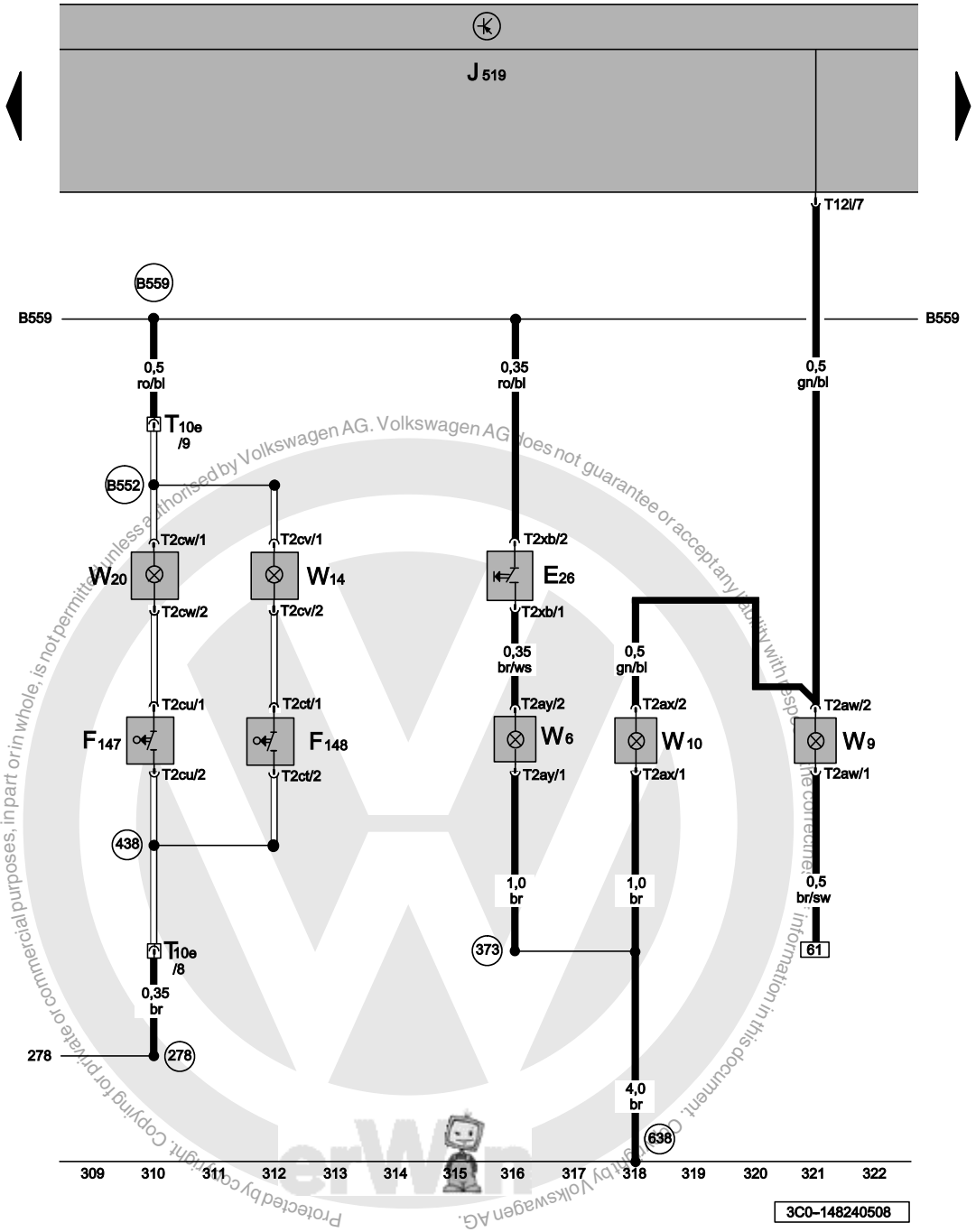


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Onboard supply control unit, terminal 30 voltage supply relay 2, front interior lights, rear interior lights

E326	Front interior light button
E454	Rear left reading light switch
E455	Rear right reading light switch 1
E457	Driver side reading light button
E458	Front passenger side reading light button
J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
T5o	5-pin connector
T6b	6-pin connector, blue
T6t	6-pin connector, black
T10e	10-pin connector, blue, coupling point for roof wiring harness
T10s	10-pin connector, black
T12i	12-pin connector, black
W1	Front interior light
W11	Rear left reading light
W12	Rear right reading light
W39	Left centre reading light
W40	Right centre reading light
W43	Rear interior light
Y7	Automatic anti-dazzle interior mirror
278	Earth connection 4, in interior wiring harness
B154	Connection 1 (DCt), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B559	Connection 1 (30g), in main wiring harness
*	Only models with sliding sunroof
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/rahmen.png" content-width="20pt" scaling="uniform"/>	Flexible printed circuit

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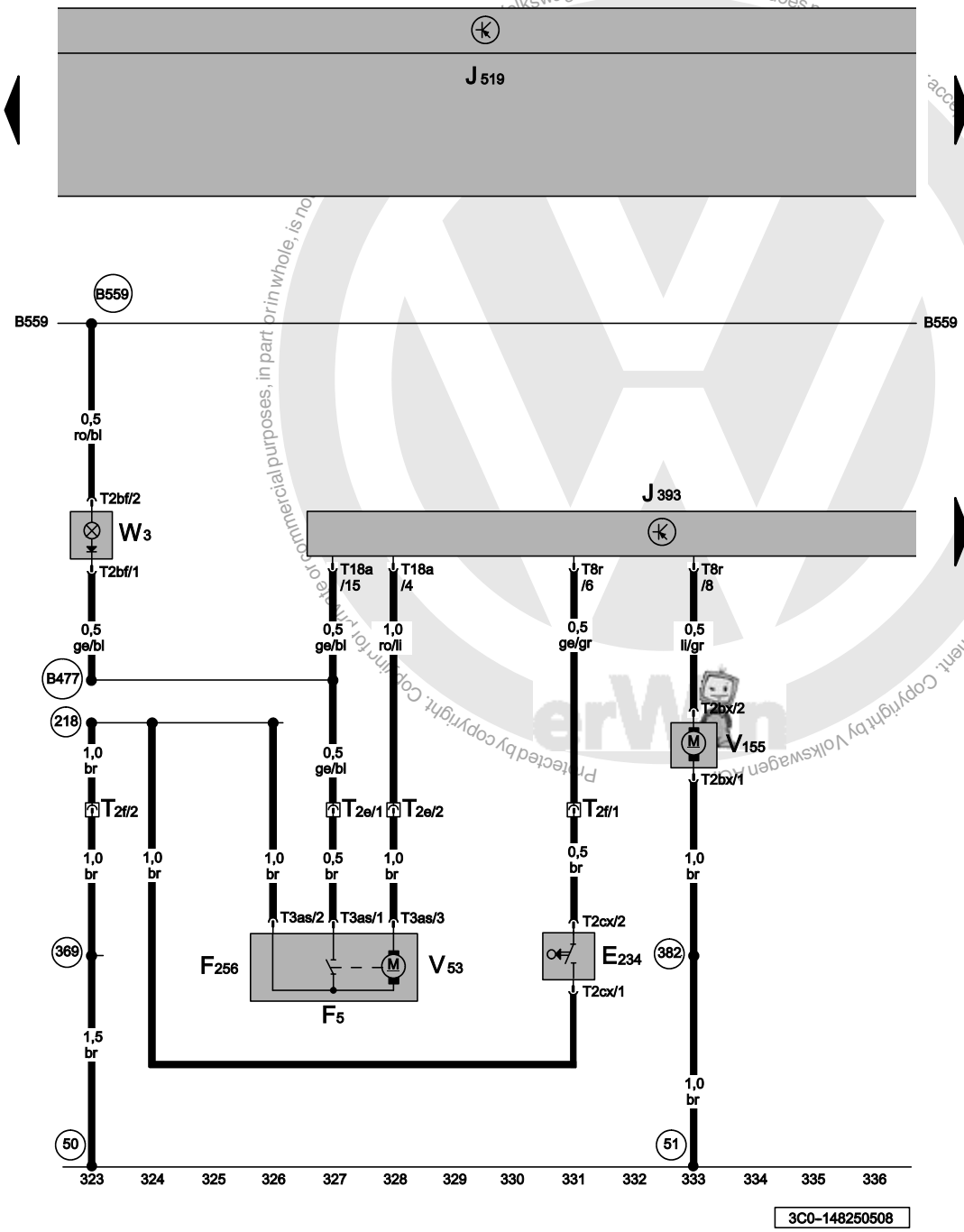
Onboard supply control unit, glove compartment light switch, contact switch for vanity mirrors on driver and front passenger sides

E26	Glove compartment light switch
F147	Driver vanity mirror contact switch
F148	Front passenger vanity mirror contact switch
J519	Onboard supply control unit
T2aw	2-pin connector, black
T2ax	2-pin connector, black
T2ay	2-pin connector
T2ct	2-pin connector
T2cu	2-pin connector
T2cv	2-pin connector
T2cw	2-pin connector
T2xb	2-pin connector, black
T10e	10-pin connector, blue, roof coupling point
T12i	12-pin connector, black
W6	Glove compartment light
W9	Left footwell light
W10	Right footwell light
W14	Front passenger side illuminated vanity mirror
W20	Driver side illuminated vanity mirror
278	Earth connection 4, in interior wiring harness
373	Earth connection 8, in main wiring harness
438	Earth connection 3, in roof wiring harness
638	Earth point, on right A-pillar
B552	Positive connection 2, in roof wiring harness
B559	Connection 1 (30g), in main wiring harness
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/rahmen.png" content-	Flexible printed circuit

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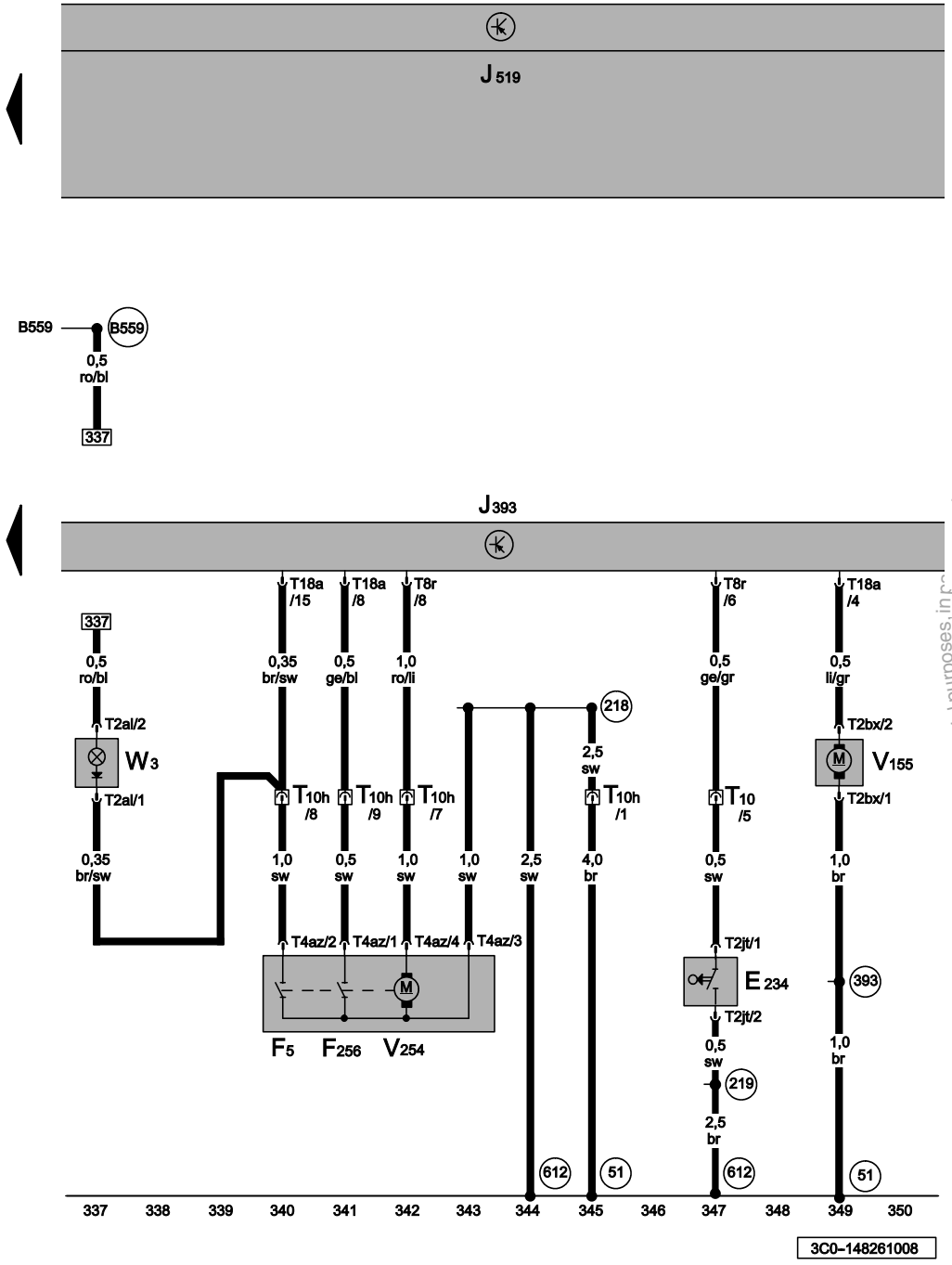


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
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li = purple
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Release button in rear lid handle (saloon), central locking motor in rear lid (saloon), tank filler flap locking motor (saloon), luggage compartment light (saloon)

E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2e	2-pin connector, coupling point, rear lid (saloon)
T2f	2-pin connector, black, coupling point, rear lid (saloon)
T2bf	2-pin connector
T2bx	2-pin connector
T2cx	2-pin connector, black
T3as	3-pin connector, black, rear lid lock (saloon)
T8r	8-pin connector
T18a	18-pin connector
V53	Rear lid central locking motor
V155	Tank filler flap locking motor
W3	Luggage compartment light
50	Earth point, on left in luggage compartment
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
382	Earth connection 17, in main wiring harness
B477	Connection 13, in main wiring harness
B559	Connection 1 (30g), in main wiring harness

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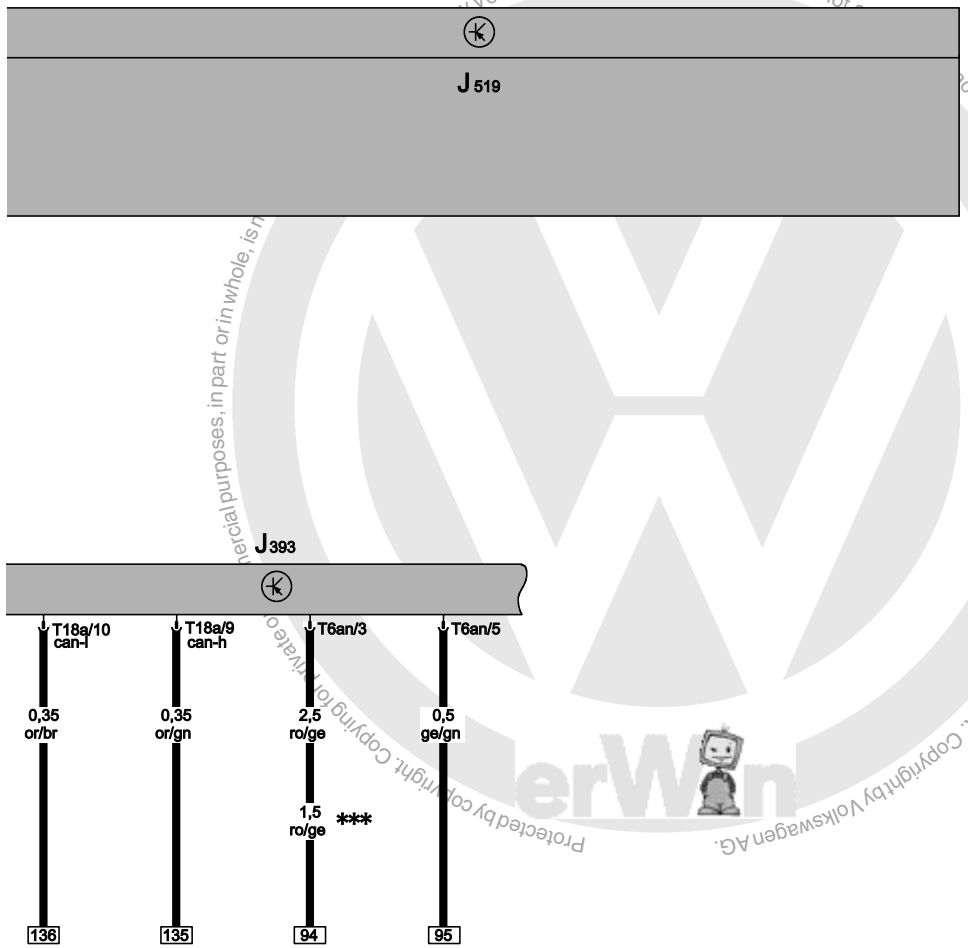


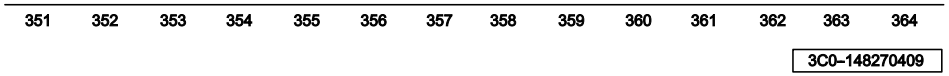
Rear lid lock unit (Variant), rear lid electric release motor (Variant), luggage compartment light (Variant), tank filler flap locking motor (Variant), rear lid handle release button

E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2al	2-pin connector, black
T2bx	2-pin connector
T2jt	2-pin connector
T4az	4-pin connector, rear lid lock (Variant)
T8r	8-pin connector
T10	10-pin connector
T10h	10-pin connector, coupling point, rear lid (Variant)
T18a	18-pin connector
V155	Tank filler flap locking motor
V254	Rear lid electric release motor
W3	Luggage compartment light
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
219	Earth connection 2, in rear lid wiring harness
393	Earth connection 28, in main wiring harness
612	Earth point, centre on rear lid
B559	Connection 1 (30g), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Onboard supply control unit, convenience system central control unit

J393	Convenience system central control unit
J519	Onboard supply control unit
T6an	6-pin connector
T18a	18-pin connector
***	Applicable from May 2009

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sw	=	black
ro	=	red
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gn	=	green
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Convenience system

⇒ **Electrically adjustable and heated exterior mirrors**
⇒ **Anti-theft alarm system with interior monitoring**
⇒ **Window regulator front and rear**
⇒ **Mirror turn signal**
⇒ **Central locking with remote control**

From May 2008

Notes:

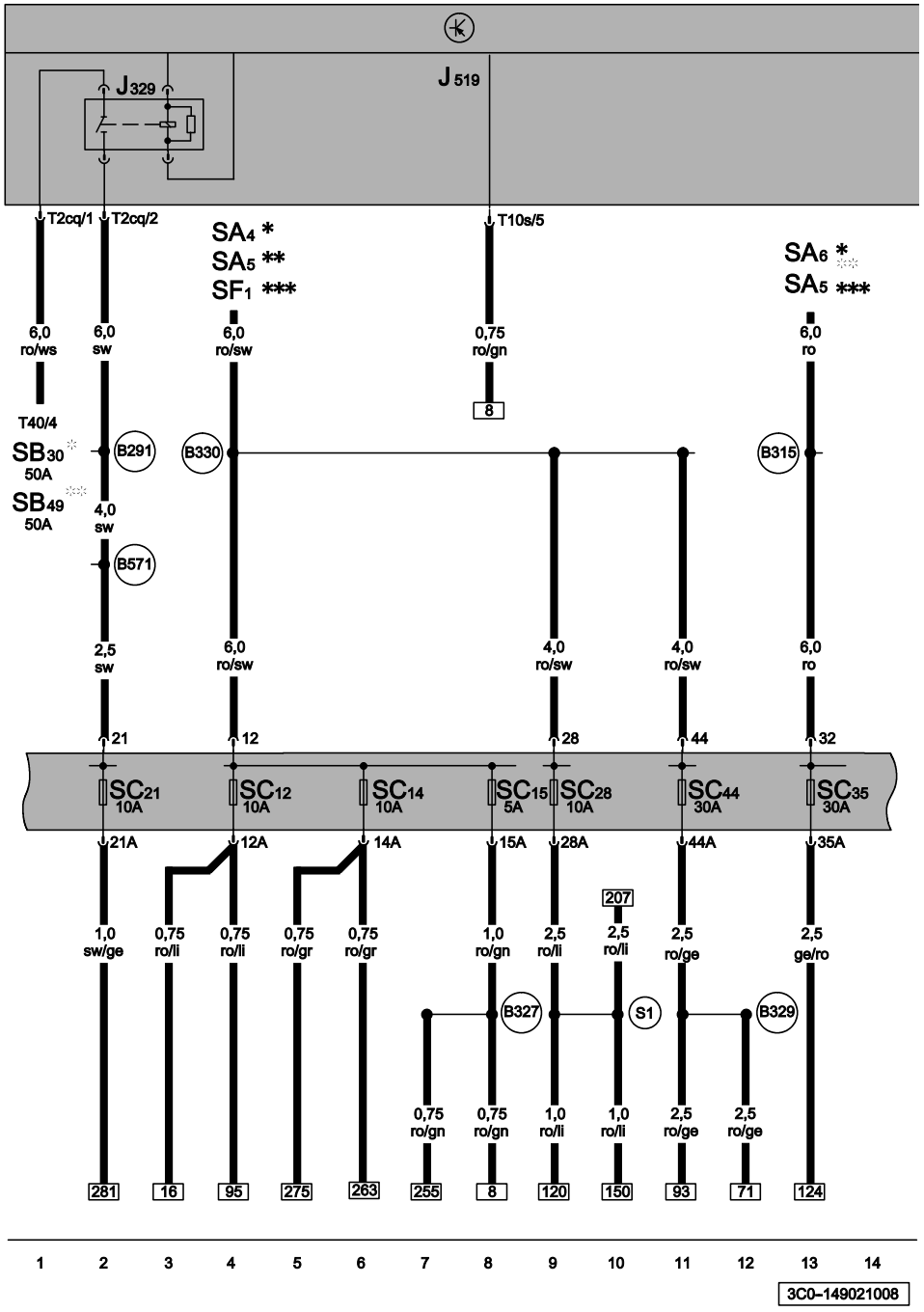
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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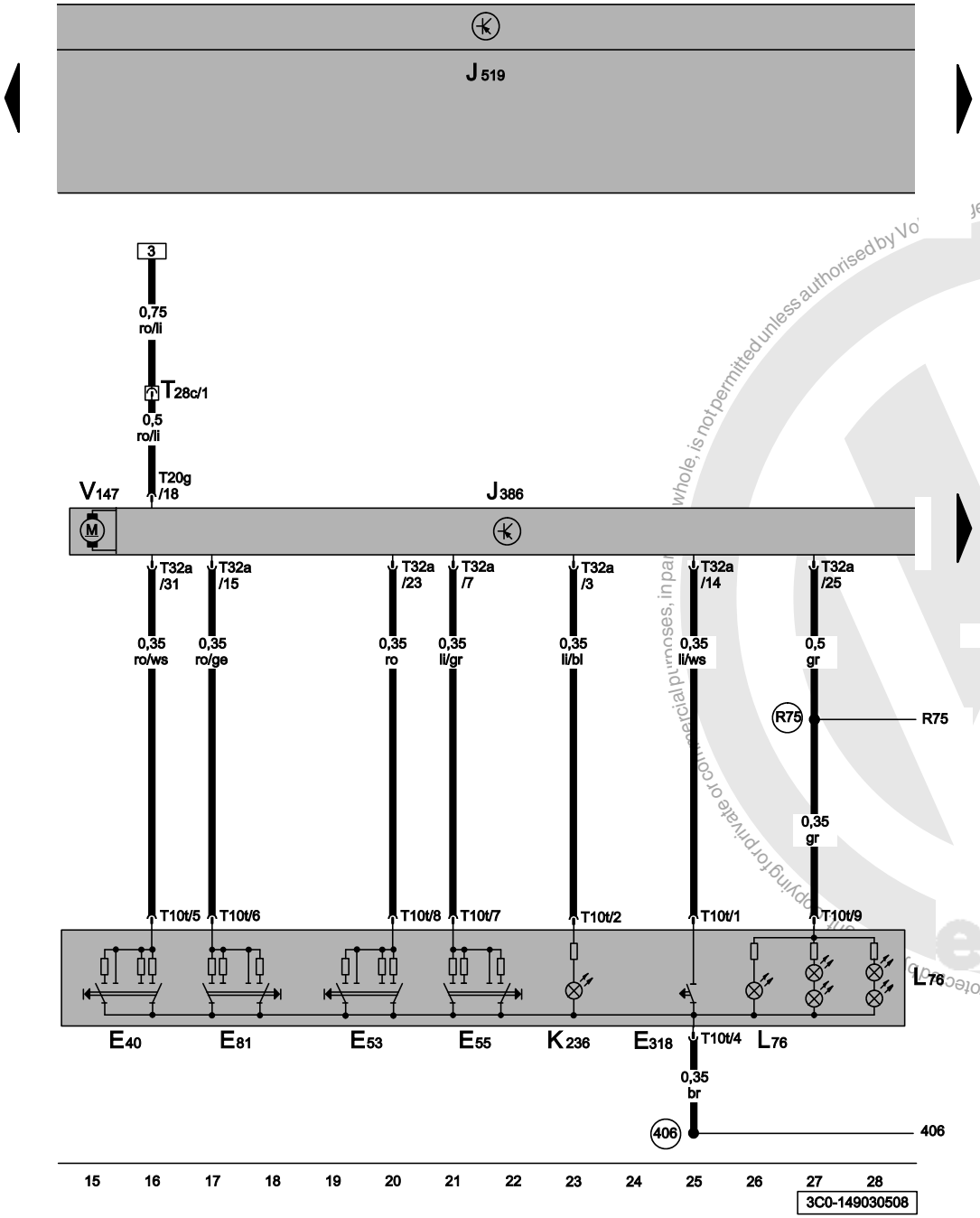


Terminal 15 voltage supply relay, onboard supply control unit, fuses

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SA6	Fuse 6 on fuse holder A
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC12	Fuse 12 on fuse holder C
SC14	Fuse 14 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC21	Fuse 21 on fuse holder C
SC28	Fuse 28 on fuse holder C
SC35	Fuse 35 on fuse holder C
SC44	Fuse 44 on fuse holder C
SF1	Fuse 1 on fuse holder F
T2cq	2-pin connector, brown
T10s	10-pin connector, black
T40	40-pin connector, on E-box
B291	Connection 15 (15a), in main wiring harness
B315	Connection 1 (30a), in main wiring harness
B327	Connection 13 (30a), in main wiring harness
B329	Connection 15 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B571	Connection 38, in main wiring harness
S1	Positive connection (30), in central locking wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Only models with rear battery

ws	=	white
sw	=	black
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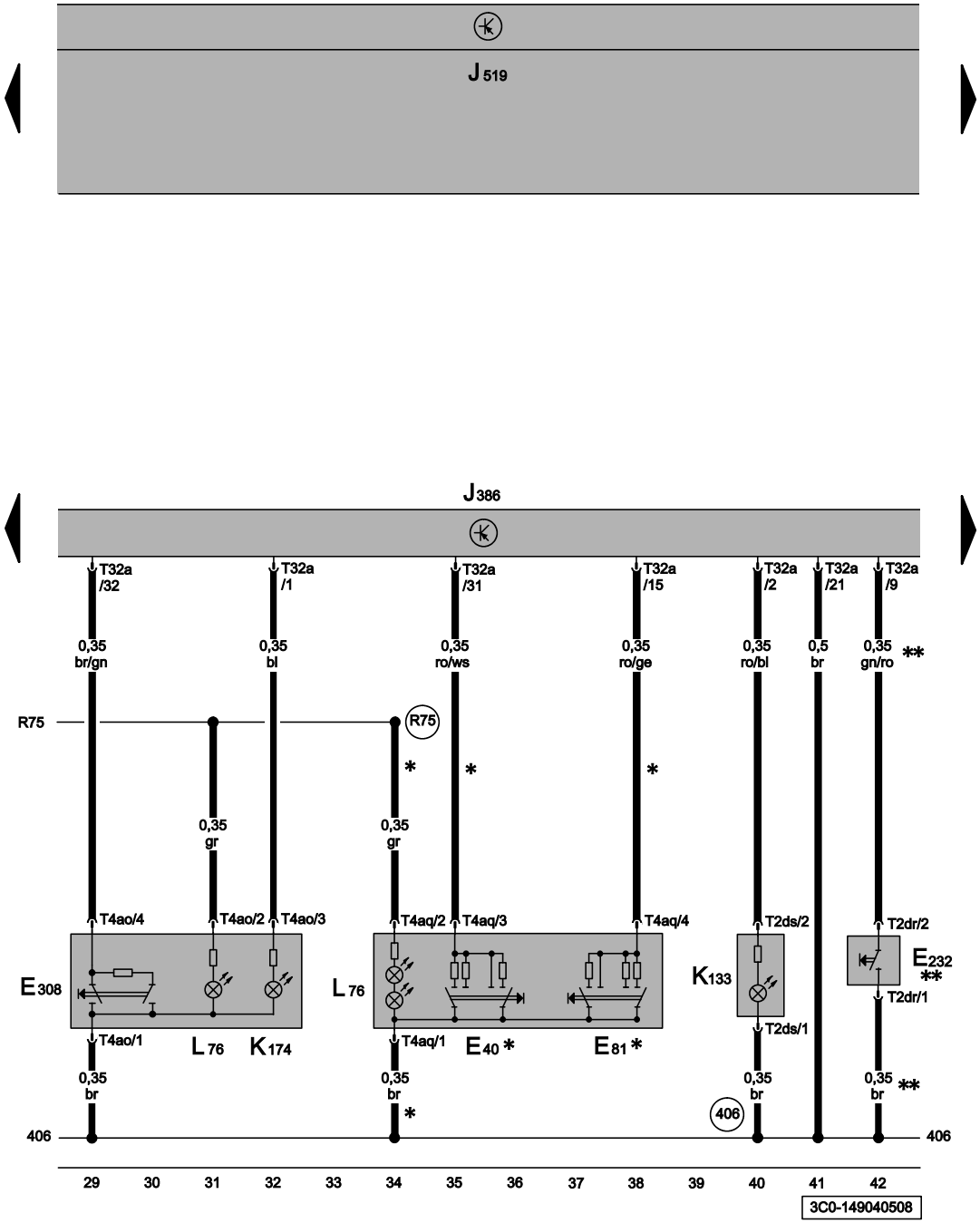


Driver door control unit, front left window regulator switch, rear left and rear right window regulator switches in driver door

E40	Front left window regulator switch
E53	Rear left window regulator switch, in driver door
E55	Rear right window regulator switch, in driver door
E81	Front right window regulator switch in driver door
E318	Childproof lock button
J386	Driver door control unit
J519	Onboard supply control unit
K236	Warning light for activated childproof lock
L76	Button illumination bulb
T10t	10-pin connector
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
T32a	32-pin connector
V147	Driver side window regulator motor
406	Earth connection 3, in drive side door wiring harness
R75	Connection 1 (58d), in door control unit wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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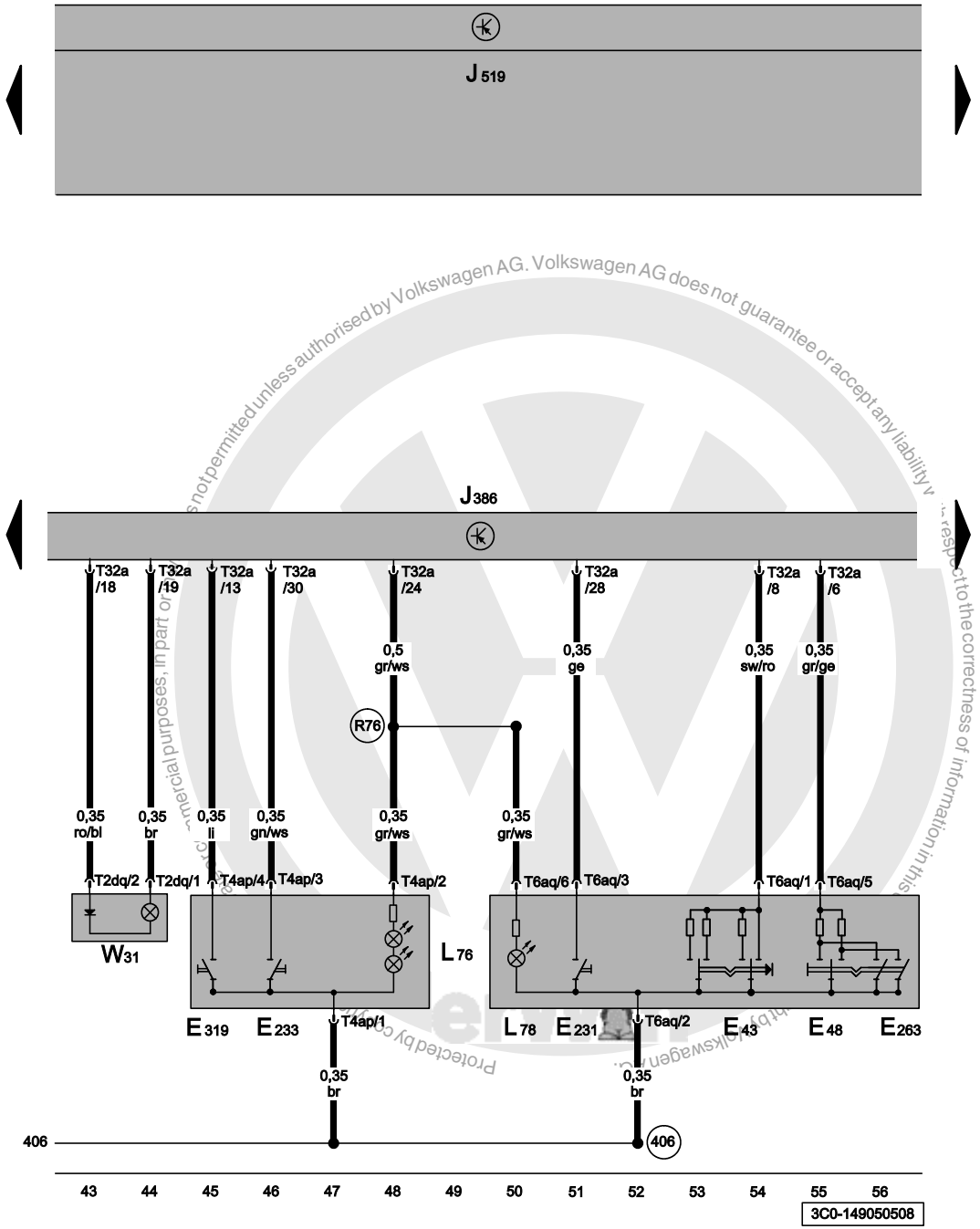


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br = brown
gn = green
bl = blue
gr = grey
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Driver door control unit, central locking deadlock function warning lamp -SAFE-, driver side interior locking warning lamp, key operated switch to block release of rear lid remote

E40	Front left window regulator switch
E81	Front right window regulator switch in driver door
E232	Key operated switch to block release of rear lid remote
E308	Driver side interior locking button for central locking system
J386	Driver door control unit
J519	Onboard supply control unit
K133	Central locking deadlock function warning lamp -SAFE-
K174	Driver side interior locking warning lamp
L76	Button illumination bulb
T2dr	2-pin connector
T2ds	2-pin connector
T4ao	4-pin connector
T4aq	4-pin connector
T32a	32-pin connector
406	Earth connection 3, in drive side door wiring harness
R75	Connection 1 (58d), in door control unit wiring harness
*	Only models with manually operated window regulators in rear
**	Only for saloon and American markets

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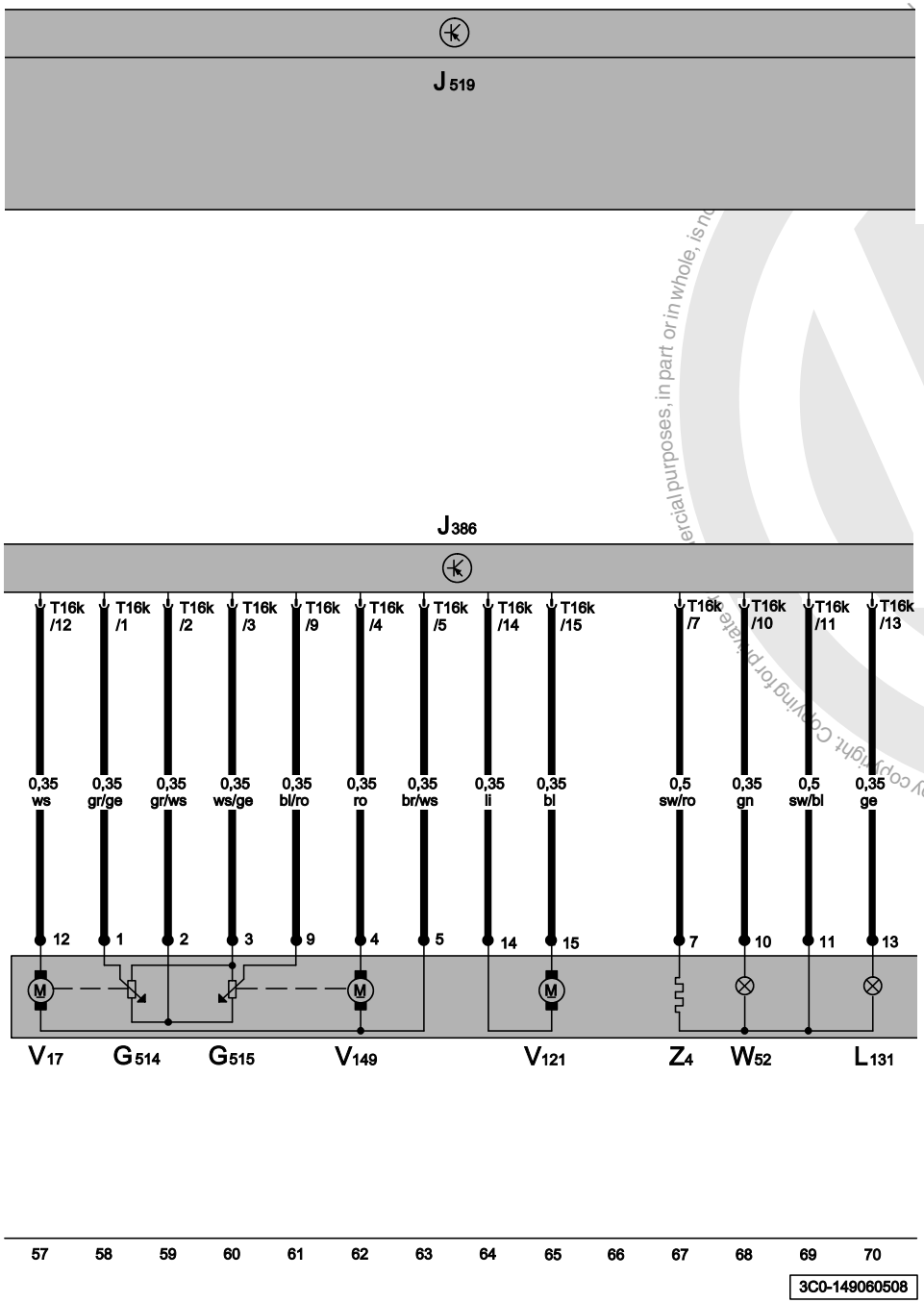


Driver door control unit, mirror adjustment switch, button for remote release of rear lid, button for remote release of fuel tank flap, front left entry light

E43	Mirror adjustment switch
E48	Mirror adjustment changeover switch
E231	Exterior mirror heater button
E233	Rear lid remote release button
E263	Fold-in mirror switch
E319	Fuel tank flap release button
J386	Driver door control unit
J519	Onboard supply control unit
L76	Button illumination bulb
L78	Mirror adjustment switch illumination bulb
T2dq	2-pin connector
T4ap	4-pin connector
T6aq	6-pin connector
T32a	32-pin connector
W31	Front left entry light
406	Earth connection 5, in drive side door wiring harness
R76	Connection 2 (58d), in door control unit wiring harness

ws	=	white
sw	=	black
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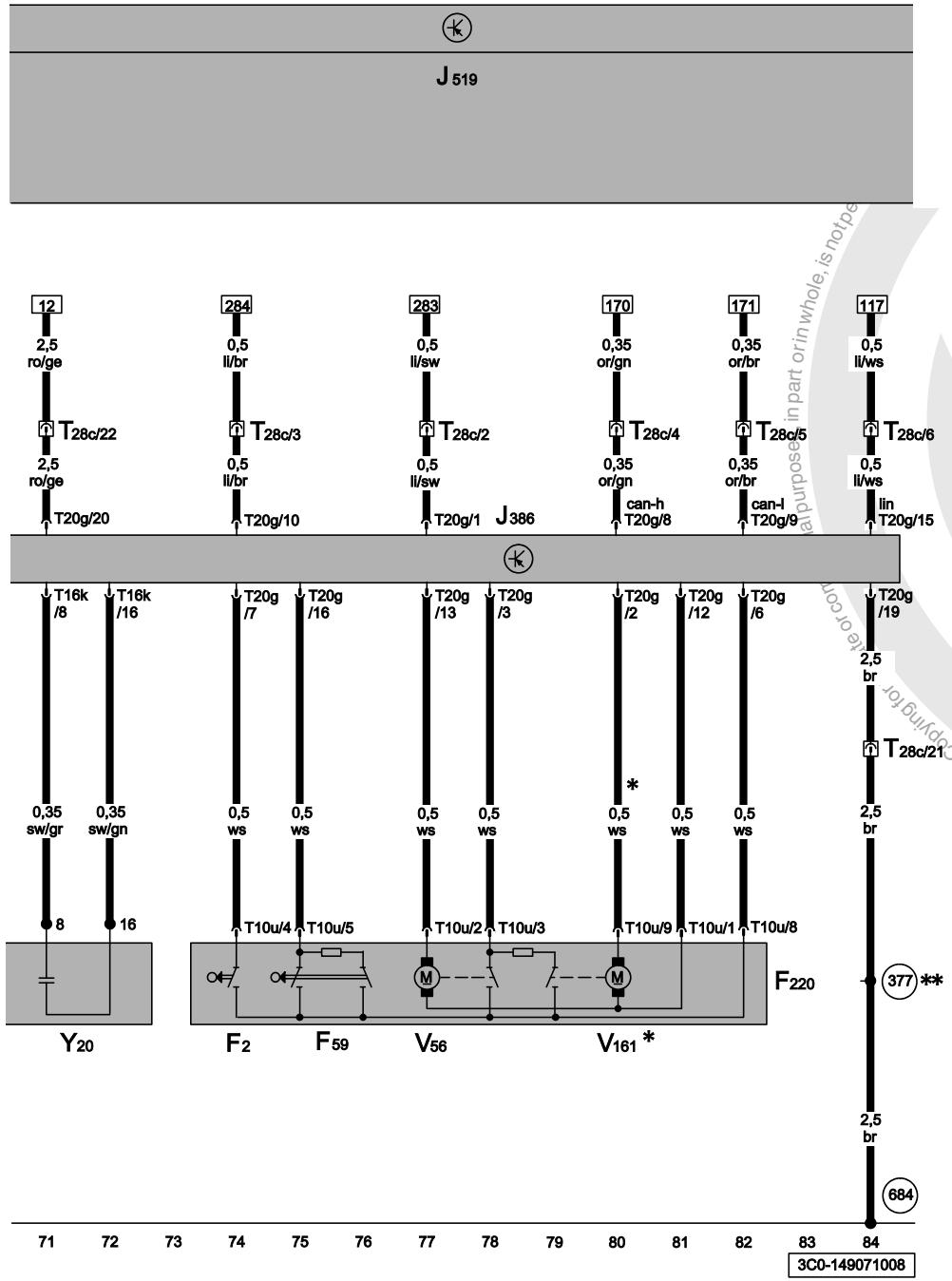


Driver door control unit, mirror adjustment and fold-in mirror motors

G514	Potentiometer for horizontal adjustment of driver side mirror
G515	Potentiometer for vertical adjustment of driver side mirror
J386	Driver door control unit
J519	Onboard supply control unit
L131	Driver side exterior mirror turn signal bulb
T16k	16-pin connector
V17	Driver side mirror adjustment motor
V121	Driver side fold-in mirror motor
V149	Driver side mirror adjustment motor
W52	Driver side entry light in exterior mirror
Z4	Heated exterior mirror on driver side

ws	=	white
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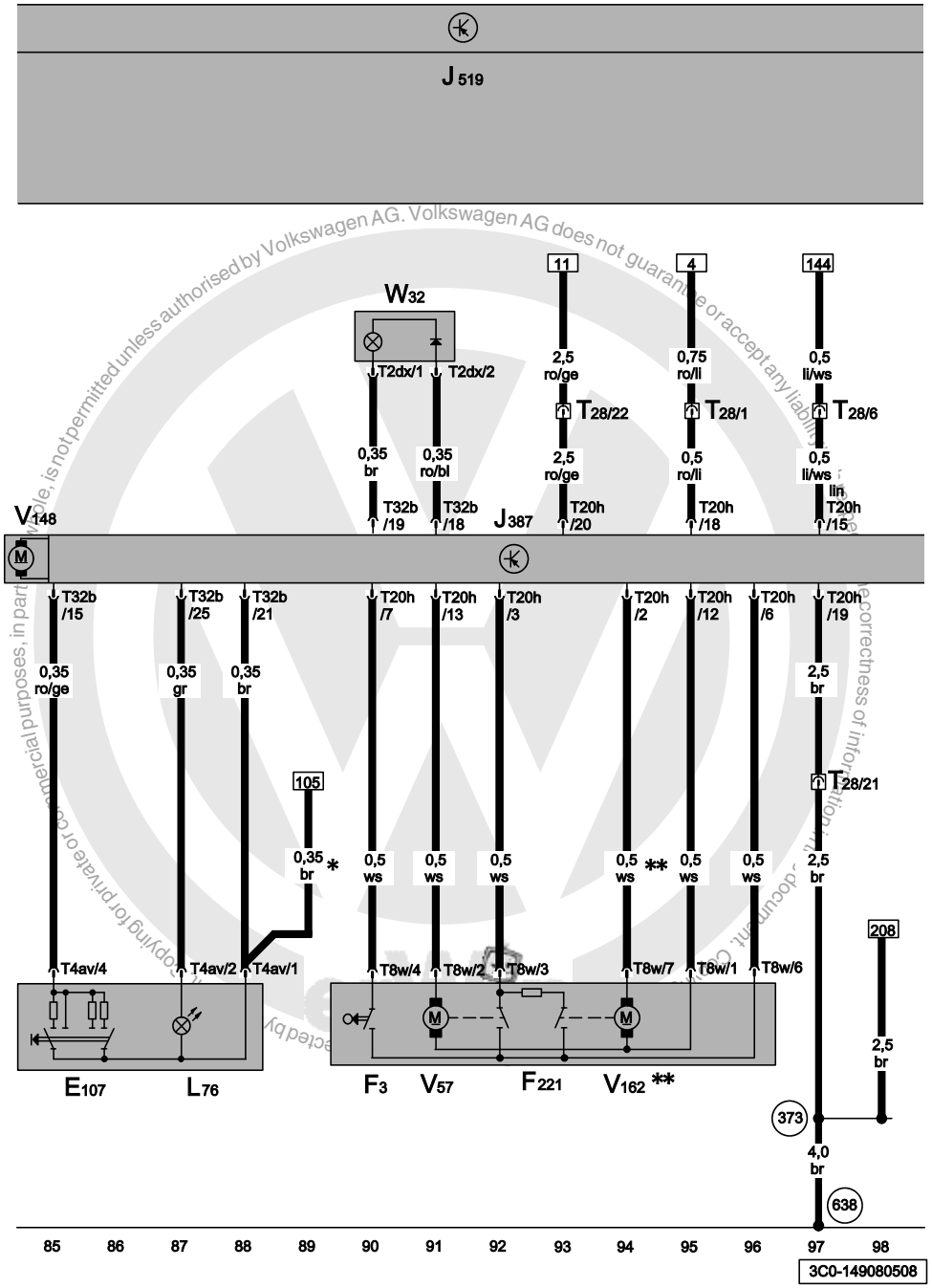


Driver door control unit, driver door contact switch, lock unit for central locking, automatic anti-dazzle exterior mirror on driver side, driver side central locking switch

F2	Driver door contact switch
F59	Central locking switch on driver side
F220	Driver side central locking lock unit
J386	Driver door control unit
J519	Onboard supply control unit
T10u	10-pin connector
T16k	16-pin connector
T20g	20-pin connector
T28c	28-pin connector, coupling point, left A-pillar
V56	Driver door central locking motor
V161	Driver door central locking deadlock function motor
Y20	Driver side automatic anti-dazzle exterior mirror
377	Earth connection 12, in main wiring harness
684	Earth point on front of left side member
*	Not for American markets
**	Only models with entry and start authorisation (Kessy)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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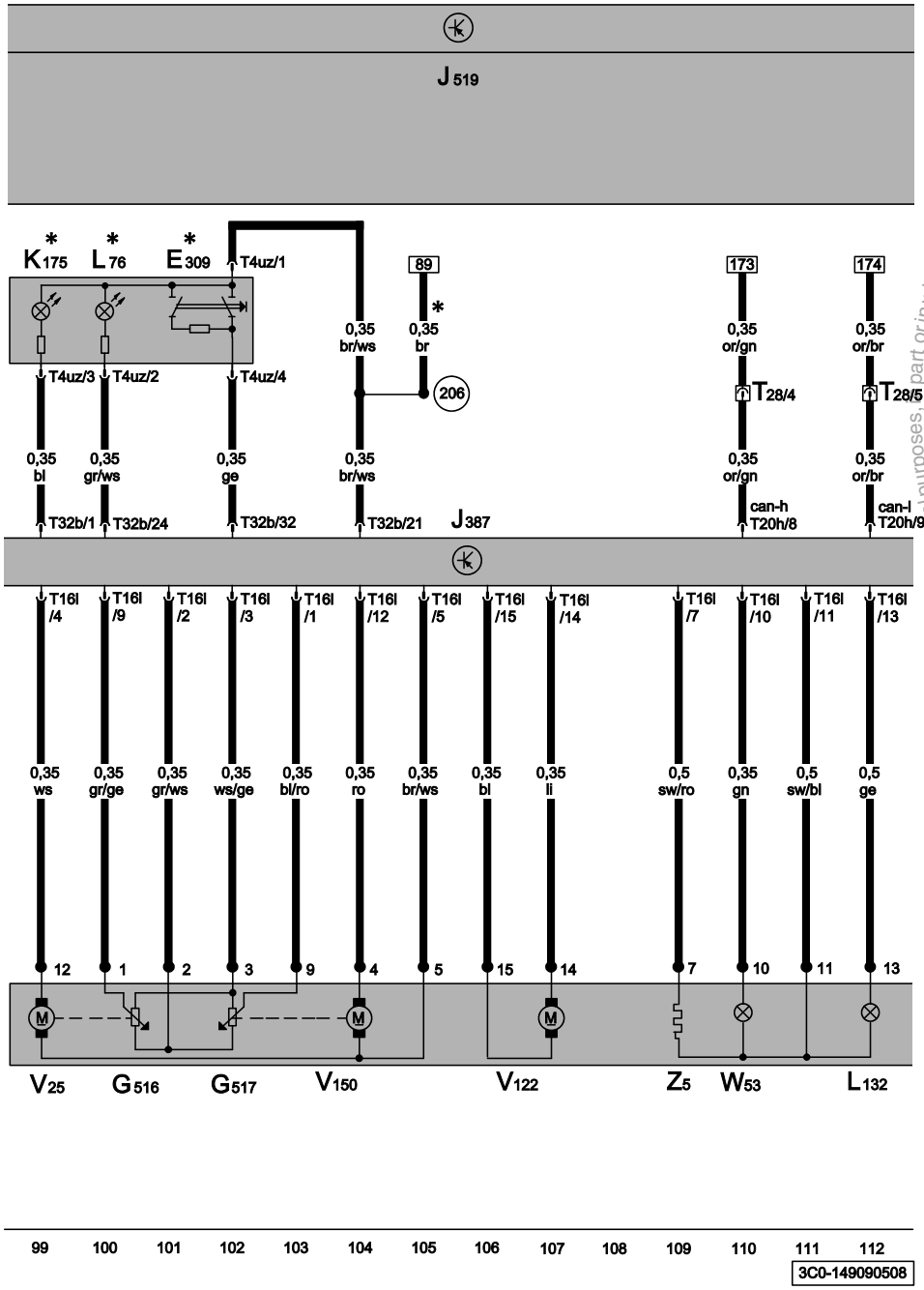


Front passenger door control unit, front passenger side central locking lock unit, window regulator switch, front right entry light, front passenger door contact switch

E107	Window regulator switch in front passenger door
F3	Front passenger door contact switch
F221	Front passenger side central locking lock unit
J387	Front passenger door control unit
J519	Onboard supply control unit
L76	Button illumination bulb
T2dx	2-pin connector
T4av	4-pin connector
T8w	8-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T32b	32-pin connector
V57	Front passenger seat central locking motor
V148	Front passenger side window regulator motor
V162	Front passenger door central locking deadlock function motor
W32	Front right entry light
373	Earth connection 8, in main wiring harness
638	Earth point, on right A-pillar
*	Depends on equipment
**	Not for American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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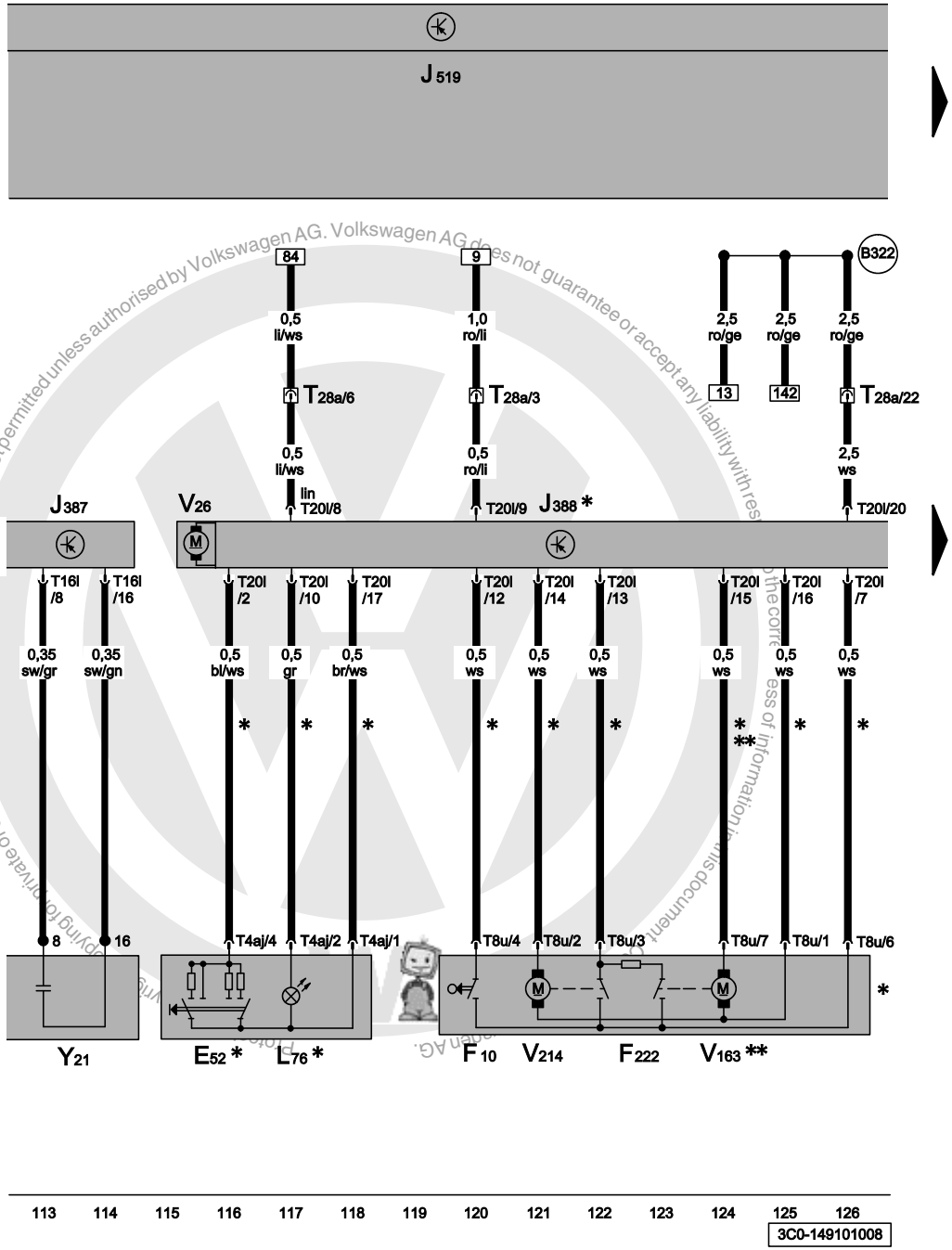


Front passenger door control unit, front passenger side interior locking button, front passenger side mirror adjustment motor

E309	Front passenger side interior locking button for central locking system
G516	Potentiometer for horizontal adjustment of front passenger side mirror
G517	Potentiometer for vertical adjustment of front passenger side mirror
J387	Front passenger door control unit
J519	Onboard supply control unit
K175	Front passenger side interior locking warning lamp
L76	Button illumination bulb
L132	Front passenger side exterior mirror turn signal bulb
T4uz	4-pin connector
T16l	16-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T32b	32-pin connector
V25	Front passenger side mirror adjustment motor
V122	Front passenger side fold-in mirror motor
V150	Front passenger side mirror adjustment motor
W53	Front passenger side entry light in exterior mirror
Z5	Heated exterior mirror on front passenger side
(206)	Earth connection, in front passenger door wiring harness
*	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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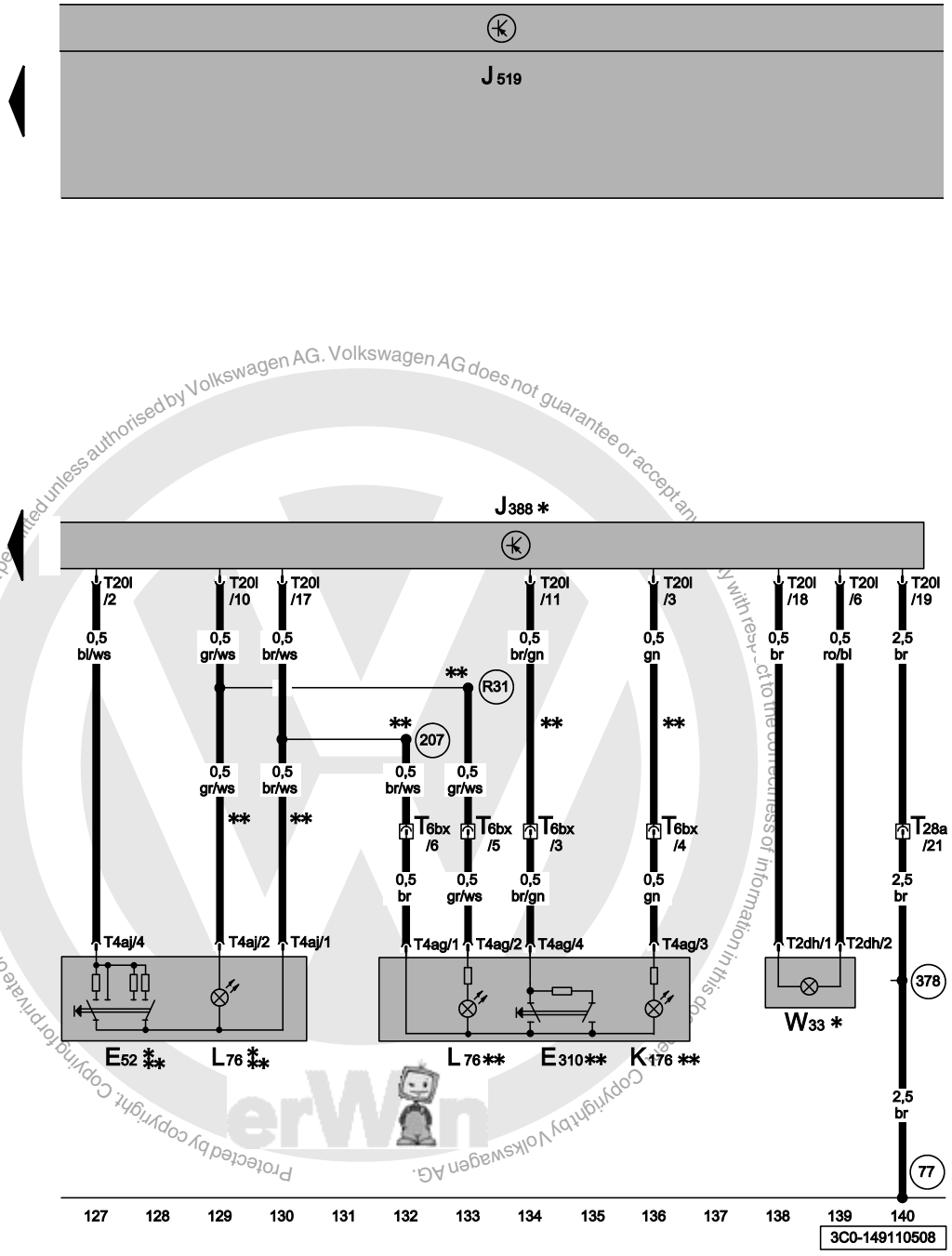


Rear left door control unit, window regulator switch in rear left door, rear left lock unit for central locking, automatic anti-dazzle exterior mirror front passenger side

E52	Rear left window regulator switch, in door
F10	Rear left door contact switch
F222	Rear left central locking lock unit
J387	Front passenger door control unit
J388	Rear left door control unit
J519	Onboard supply control unit
L76	Button illumination bulb
T4aj	4-pin connector
T8u	8-pin connector
T16l	16-pin connector
T20l	20-pin connector
T28a	28-pin connector, coupling point, left B-pillar
V26	Rear left window regulator motor
V163	Rear left door central locking deadlock function motor
V214	Rear left door central locking motor, lock
Y21	Front passenger side automatic anti-dazzle exterior mirror
B322	Connection 8 (30a), in main wiring harness
*	Only models with rear electric window regulators
**	Only American markets

ws	=	white
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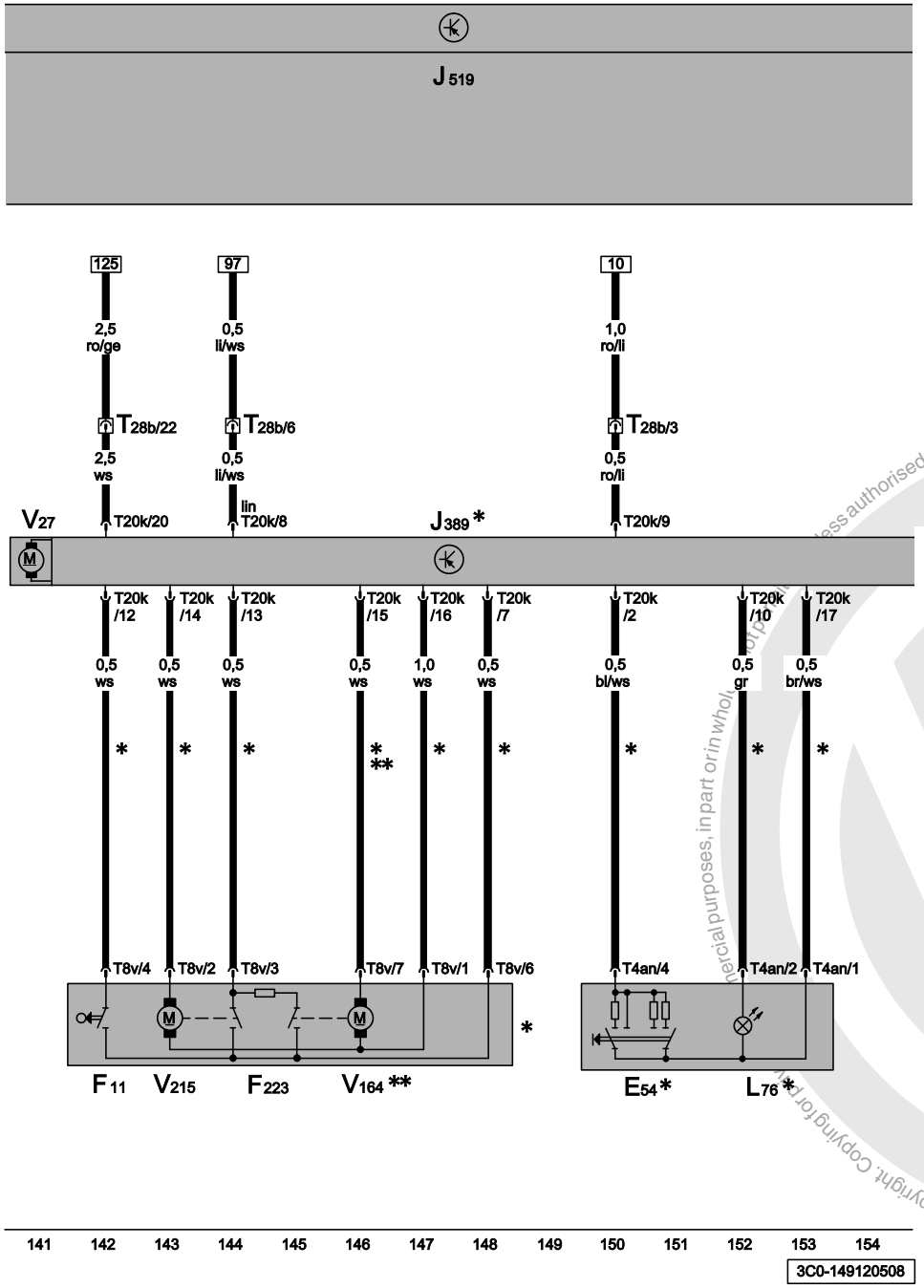


Rear left door control unit, window regulator switch in rear left door, rear left window regulator button, rear left entry light

E52	Rear left window regulator switch, in door
E310	Rear left interior locking button for central locking system
J388	Rear left door control unit
J519	Onboard supply control unit
K176	Rear left interior locking warning lamp
L76	Button illumination bulb
T2dh	2-pin connector
T4ag	4-pin connector
T4aj	4-pin connector
T6bx	6-pin connector, in rear left door
T20l	20-pin connector
T28a	28-pin connector, coupling point, left B-pillar
W33	Rear left entry light
77	Earth point, lower part of left B-pillar
207	Earth connection, in rear left door wiring harness
378	Earth connection 13, in main wiring harness
R31	Connection 1, in rear left door wiring harness
*	Only models with rear electric window regulators
**	Only American markets

ws	=	white
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ro	=	red
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gn	=	green
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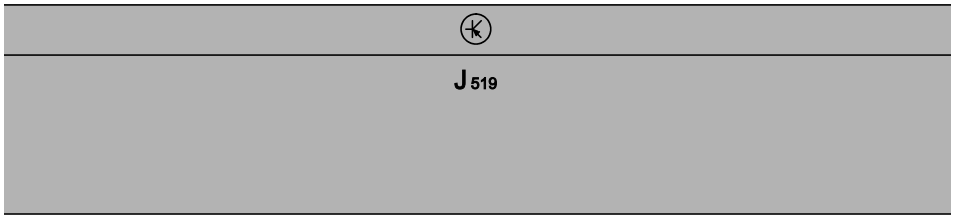


Rear right door control unit, window regulator switch in rear right door, rear right door contact switch

E54	Rear right window regulator switch, in door
F11	Rear right door contact switch
F223	Rear right central locking lock unit
J389	Rear right door control unit
J519	Onboard supply control unit
L76	Button illumination bulb
T4an	4-pin connector
T8v	8-pin connector
T20k	20-pin connector
T28b	28-pin connector, coupling point, right B-pillar
V27	Rear right window regulator motor
V164	Rear right door central deadlock function locking motor
V215	Rear right door central locking motor, lock
*	Only models with rear electric window regulators
**	Only American markets

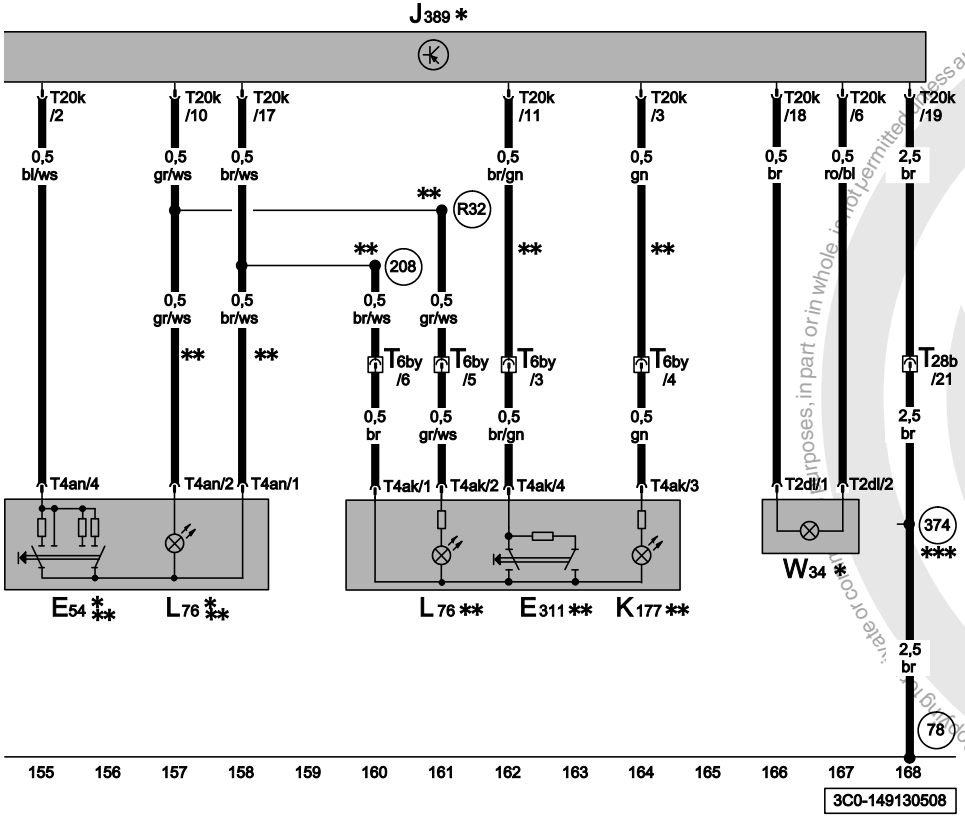
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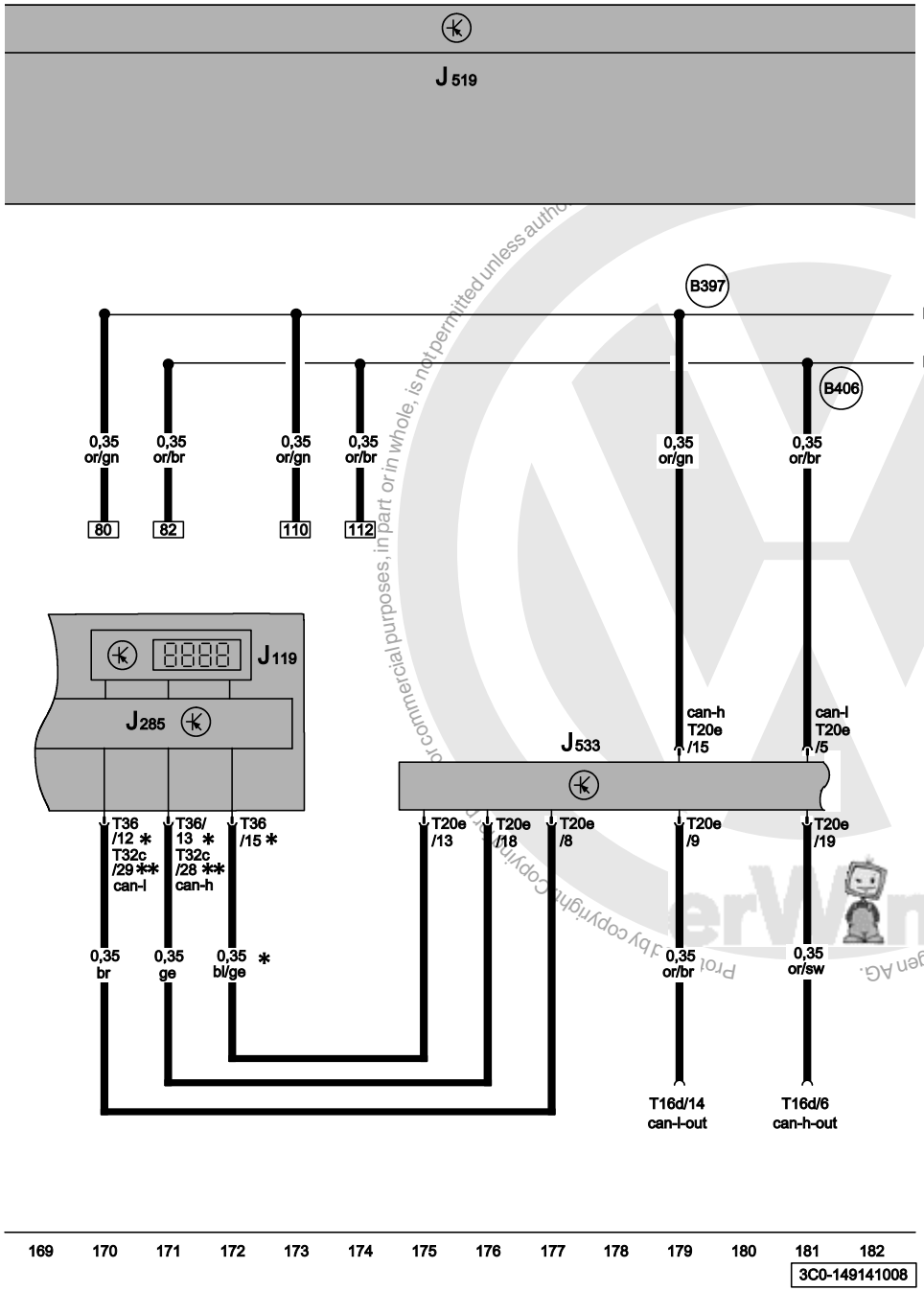
Rear right door control unit, window regulator switch in rear right door, rear right window regulator button, rear right entry light

E54	Rear right window regulator switch, in door
E311	Rear right interior locking button for central locking system
J389	Rear right door control unit
J519	Onboard supply control unit
K177	Rear right interior locking warning lamp
L76	Button illumination bulb
T2dl	2-pin connector
T4ak	4-pin connector
T4an	4-pin connector
T6by	6-pin connector, in rear right door
T20k	20-pin connector
T28b	28-pin connector, coupling point, right B-pillar
W34	Rear right entry light
78	Earth point, lower part of right B-pillar
208	Earth connection, in rear right door wiring harness
374	Earth connection 9, in main wiring harness
R32	Connection 2, in rear right door wiring harness
*	Only models with rear electric window regulators
**	Only American markets
***	Only models with entry and start authorisation (Kessy)



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sw	=	black
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br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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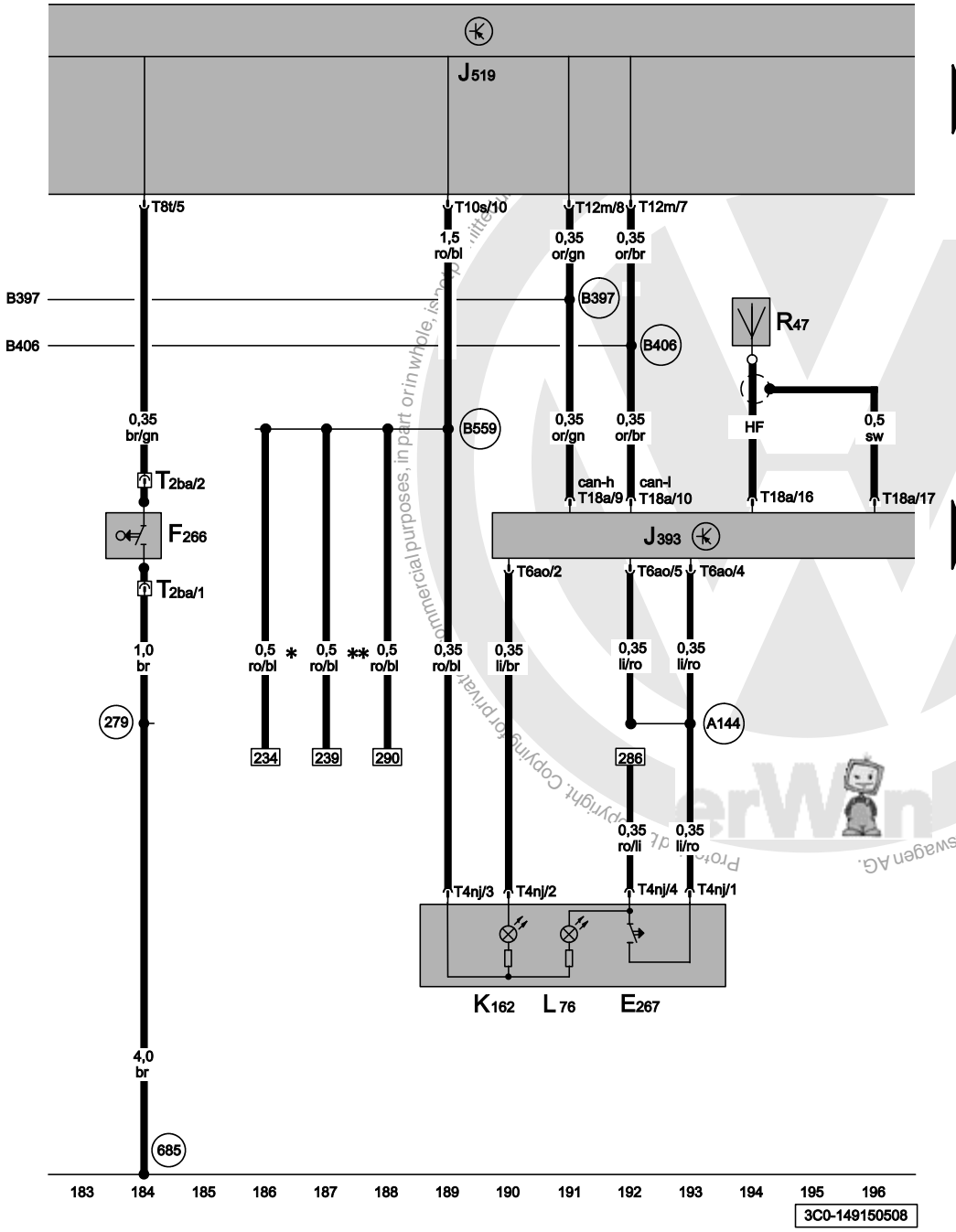


Dash panel insert, multifunction display, data bus diagnostic interface, diagnostic connection

J119	Multifunction display
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnostic interface
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Applicable up to October 2008
**	Applicable from November 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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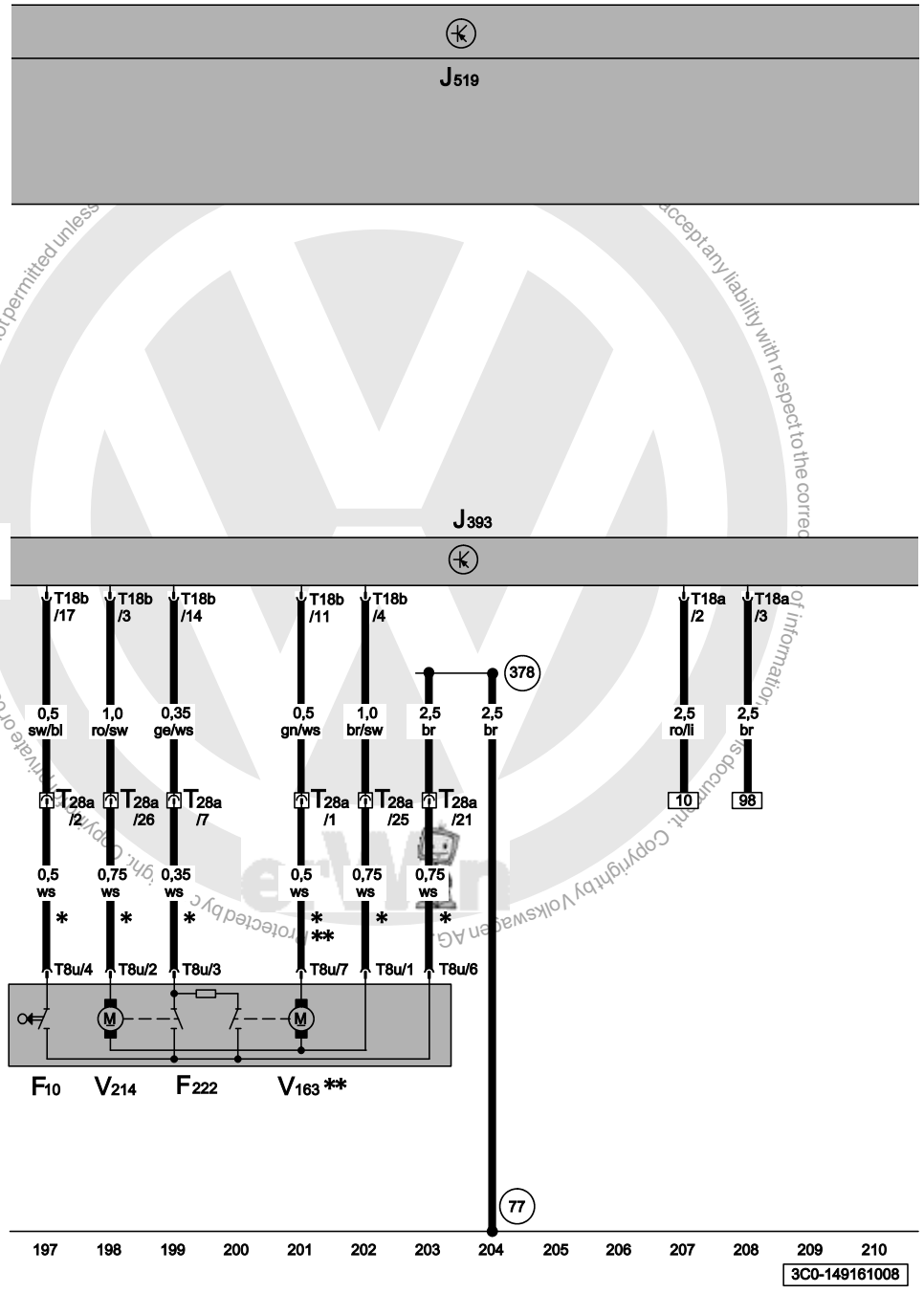


Convenience system central control unit, bonnet contact switch, interior monitor deactivation switch, interior monitor deactivation warning lamp

E267	Interior monitoring deactivation switch
F266	Bonnet contact switch
J393	Convenience system central control unit
J519	Onboard supply control unit
K162	Interior monitoring off warning lamp
L76	Button illumination bulb
R47	Aerial for central locking and anti-theft alarm system, lower left A-pillar
T2ba	2-pin connector, black, behind right headlight
T4nj	4-pin connector
T6ao	6-pin connector
T8t	8-pin connector, black
T10s	10-pin connector, black
T12m	12-pin connector, black
T18a	18-pin connector
279	Earth connection 5, in interior wiring harness
685	Earth point 1 at front of right longitudinal member
A144	Connection (interior monitoring) in dash panel wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B559	Connection 1 (30g), in main wiring harness
*	Saloon models
**	Variant models

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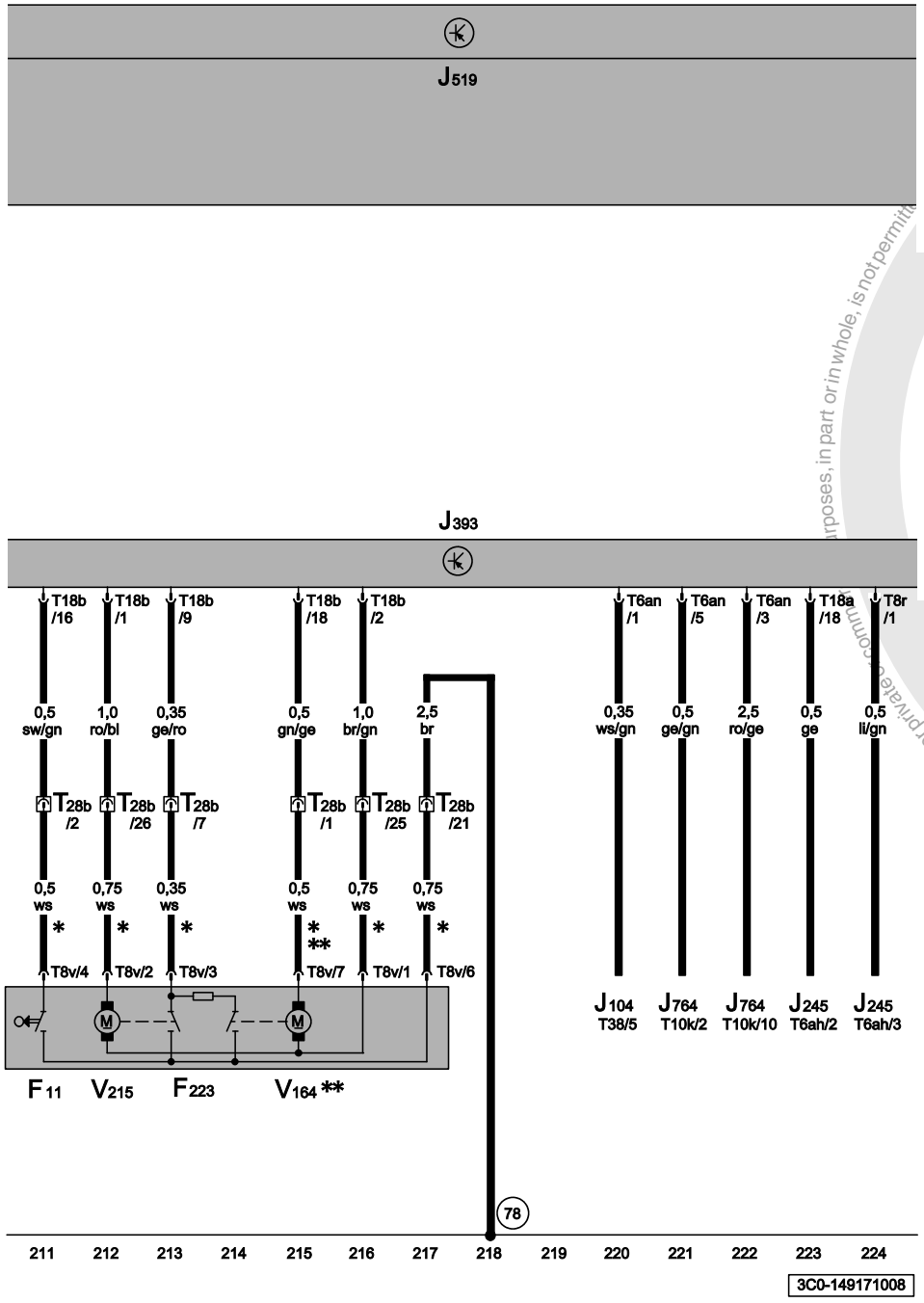


Convenience system central control unit, rear left door contact switch, rear left central locking lock unit

F10	Rear left door contact switch
F222	Rear left central locking lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T8u	8-pin connector
T18a	18-pin connector
T18b	18-pin connector
T28a	28-pin connector, coupling point, left B-pillar
V163	Rear left door central locking deadlock function motor
V214	Rear left door central locking motor, lock
77	Earth point, lower part of left B-pillar
378	Earth connection 13, in main wiring harness
*	Only models with no electric window regulators in rear
**	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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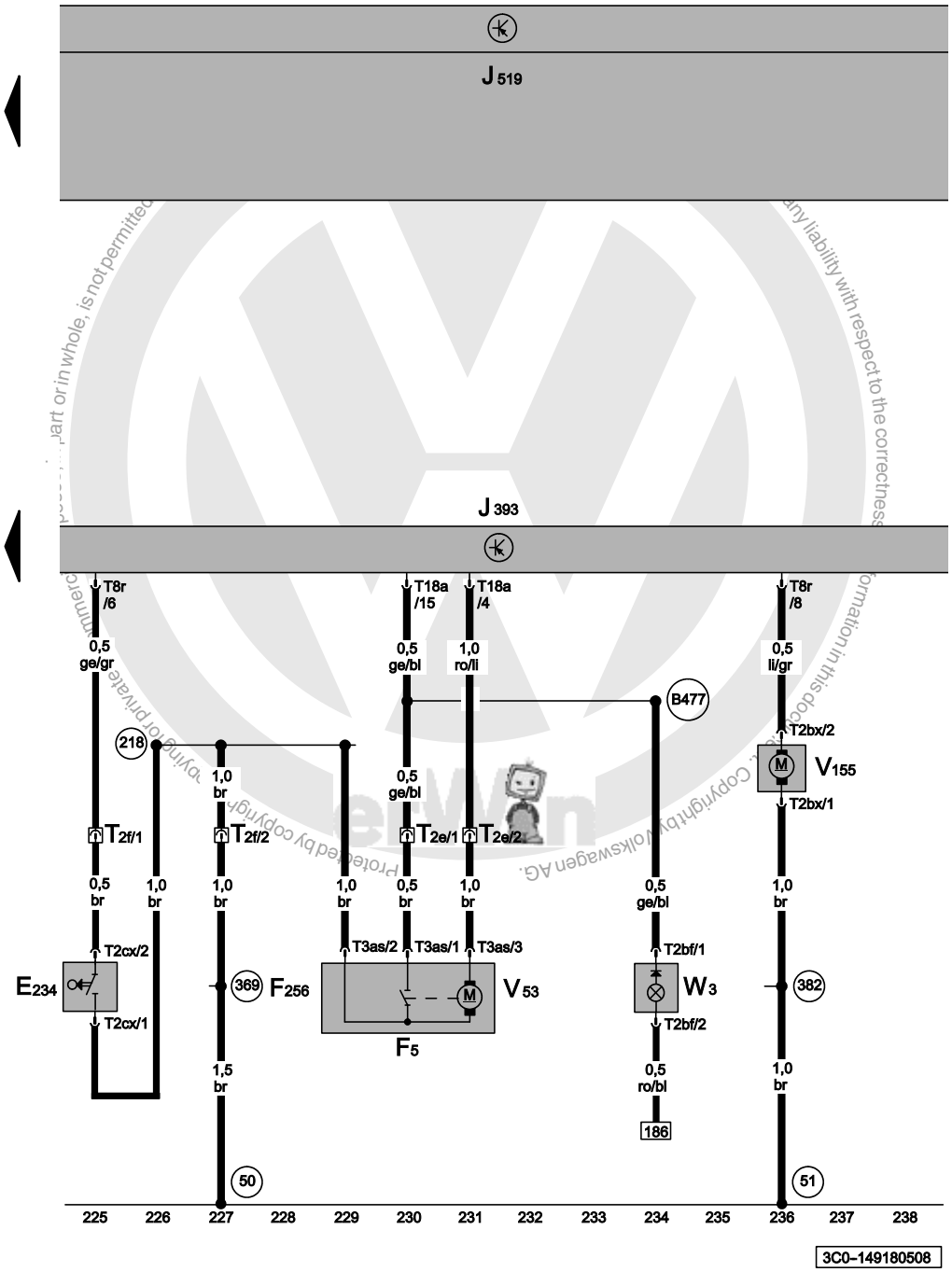


Convenience system central control unit, central locking lock unit

F11	Rear right door contact switch
F223	Rear right central locking lock unit
J104	ABS control unit
J245	Sliding sunroof adjustment control unit
J393	Convenience system central control unit
J519	Onboard supply control unit
J764	Electronic steering column lock control unit
T6ah	6-pin connector
T6an	6-pin connector
T8r	8-pin connector
T8v	8-pin connector
T10k	10-pin connector
T18a	18-pin connector
T18b	18-pin connector
T28b	28-pin connector, coupling point, right B-pillar
T38	38-pin connector
V164	Rear right door central deadlock function locking motor
V215	Rear right door central locking motor, lock
78	Earth point, lower part of right B-pillar
*	Only models with no electric window regulators in rear
**	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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ge	=	yellow
or	=	orange
rs	=	pink

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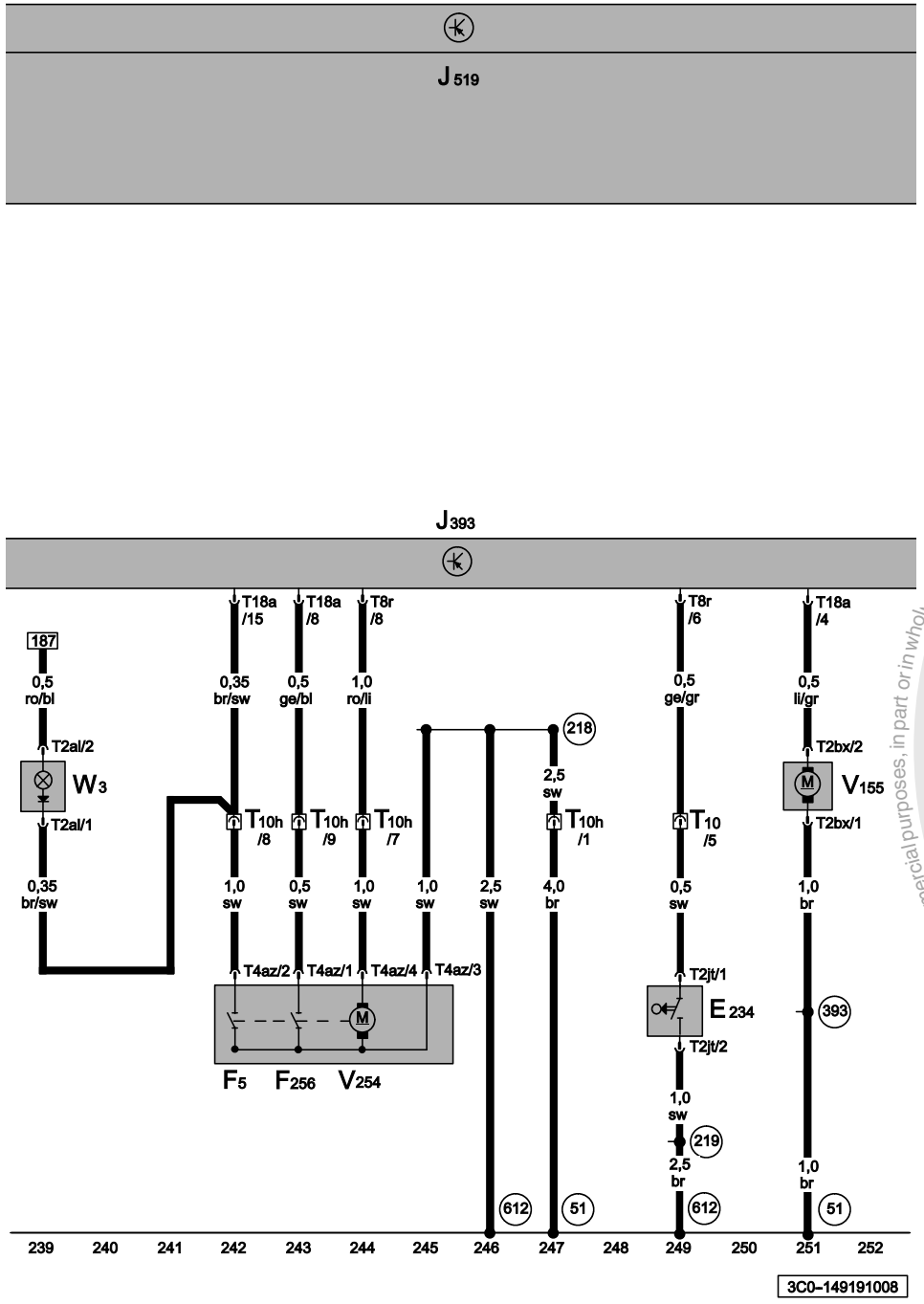


Rear lid handle release button, rear lid central locking motor (saloon), tank filler flap locking motor (saloon), luggage compartment light (saloon)

E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2e	2-pin connector, coupling point, rear lid (saloon)
T2f	2-pin connector, coupling point, rear lid (saloon)
T2bf	2-pin connector
T2bx	2-pin connector
T2cx	2-pin connector
T3as	3-pin connector, rear lid lock (saloon)
T8r	8-pin connector
T18a	18-pin connector
V53	Rear lid central locking motor
V155	Tank filler flap locking motor
W3	Luggage compartment light
50	Earth point, on left in luggage compartment
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
382	Earth connection 17, in main wiring harness
B477	Connection 13, in main wiring harness

ws	=	white
sw	=	black
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gn	=	green
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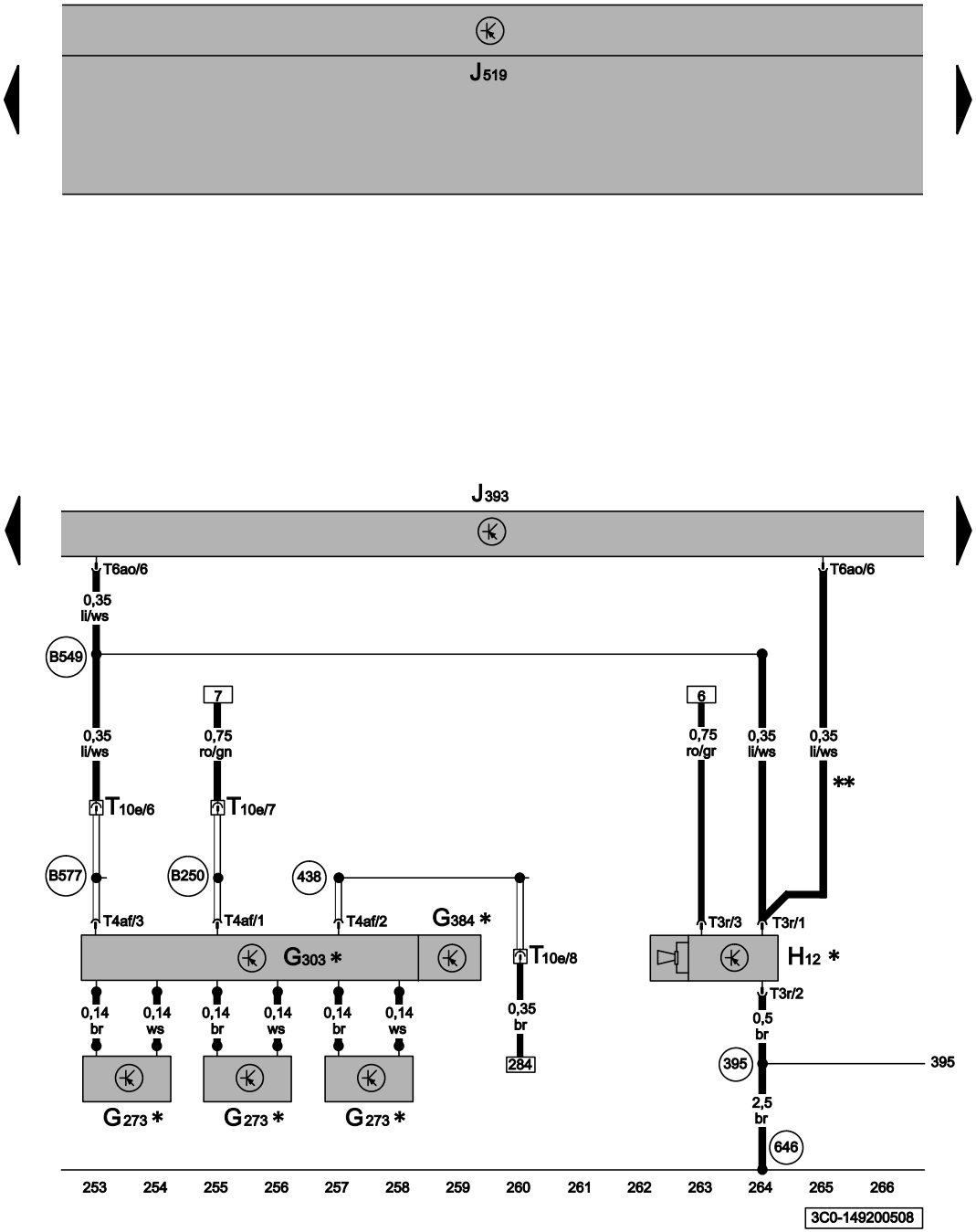


Rear lid handle release button, rear lid lock unit (Variant), rear lid electric release motor (Variant), luggage compartment light (Variant), tank filler flap locking motor (Variant)

E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
J519	Onboard supply control unit
T2al	2-pin connector
T2bx	2-pin connector
T2jt	2-pin connector
T4az	4-pin connector, rear lid lock (Variant)
T8r	8-pin connector
T10	10-pin connector
T10h	10-pin connector, coupling point, rear lid (Variant)
T18a	18-pin connector
V155	Tank filler flap locking motor
V254	Rear lid electric release motor
W3	Luggage compartment light
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
219	Earth connection 2, in rear lid wiring harness
393	Earth connection 28, in main wiring harness
612	Earth point, centre on rear lid

ws	=	white
sw	=	black
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gr	=	grey
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Convenience system central control unit, vehicle inclination sender, alarm horn, interior monitor send and receive module 1, interior monitor sensor

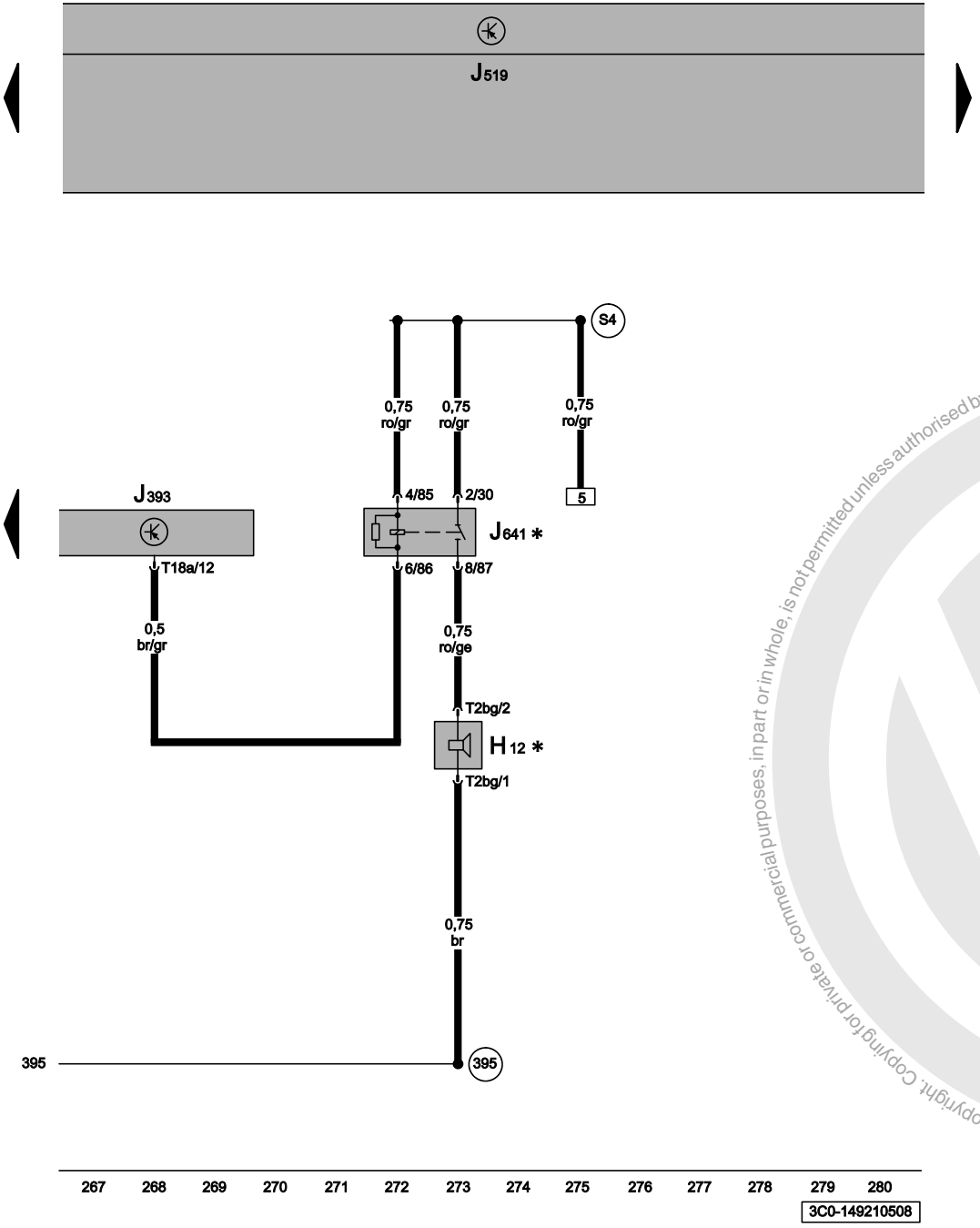
G273	Interior monitoring sensor
G303	Interior monitor send and receive module 1
G384	Vehicle inclination sender
H12	Alarm horn
J393	Convenience system central control unit
J519	Onboard supply control unit
T3r	3-pin connector
T4af	4-pin connector
T6ao	6-pin connector
T10e	10-pin connector, blue, coupling point for roof wiring harness
395	Earth connection 30, in main wiring harness
438	Earth connection 3, in roof wiring harness
646	Earth point 2, on bulkhead
B250	Positive connection, in roof wiring harness
B549	Connection 2 (LIN bus), in main wiring harness
B577	LIN bus connection, in roof wiring harness
<fo:exter	Flexible printed circuit

nal-graphic src="Z:/tools/png-convert/out//slp/ft_icons/rahmen.png" content-width="20pt" scaling="uniform"/>

* Not for American markets

** Only models with no interior monitoring and no tow-away protection

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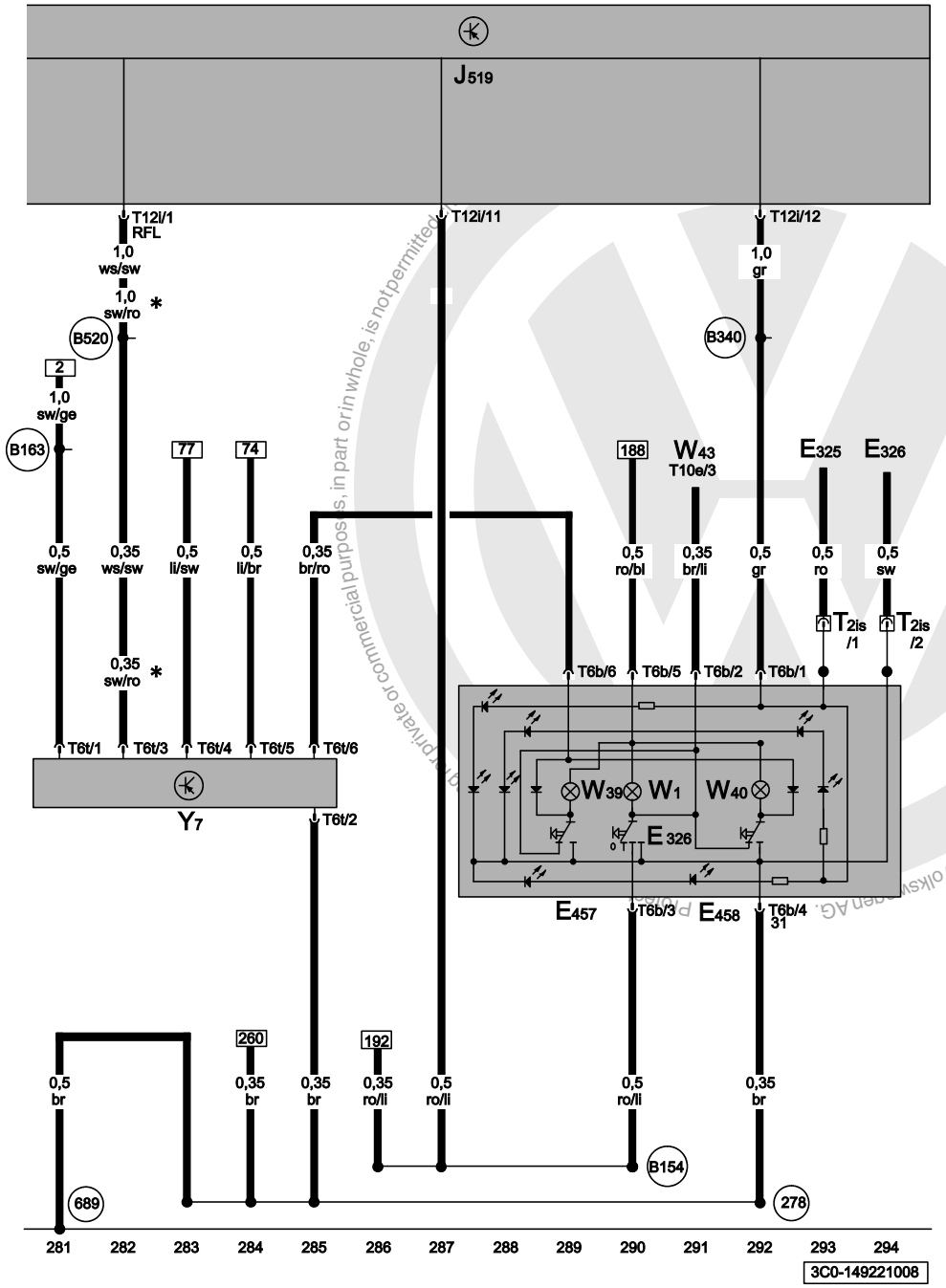


Convenience system central control unit, alarm horn relay, alarm horn

H12	Alarm horn
J393	Convenience system central control unit
J519	Onboard supply control unit
J641	Alarm horn relay, on relay carrier 2 on left under dash panel (53)
T2bg	2-pin connector
T18a	18-pin connector
395	Earth connection 30, in main wiring harness
S4	Positive connection (30) 2, in central locking wiring harness
*	Only American markets

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Front interior light button, sunroof button, automatic anti-dazzle interior mirror, front interior light

E325	Sunroof button
E326	Front interior light button
E457	Driver side reading light button
E458	Front passenger side reading light button
J519	Onboard supply control unit
T2is	2-pin connector, black
T6b	6-pin connector
T6t	6-pin connector
T10e	10-pin connector
T12i	12-pin connector, black
W1	Front interior light
W39	Left centre reading light
W40	Right centre reading light
W43	Rear interior light
Y7	Automatic anti-dazzle interior mirror
278	Earth connection 4, in interior wiring harness
689	Earth point, at front, central in roof
B154	Connection 1 (DCt), in interior wiring harness
B163	Positive connection 1 (15), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B520	Connection (RL), in main wiring harness
*	Applicable from November 2008

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Anti-lock brake system (ABS) with electronic stabilisation program (ESP)

from May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

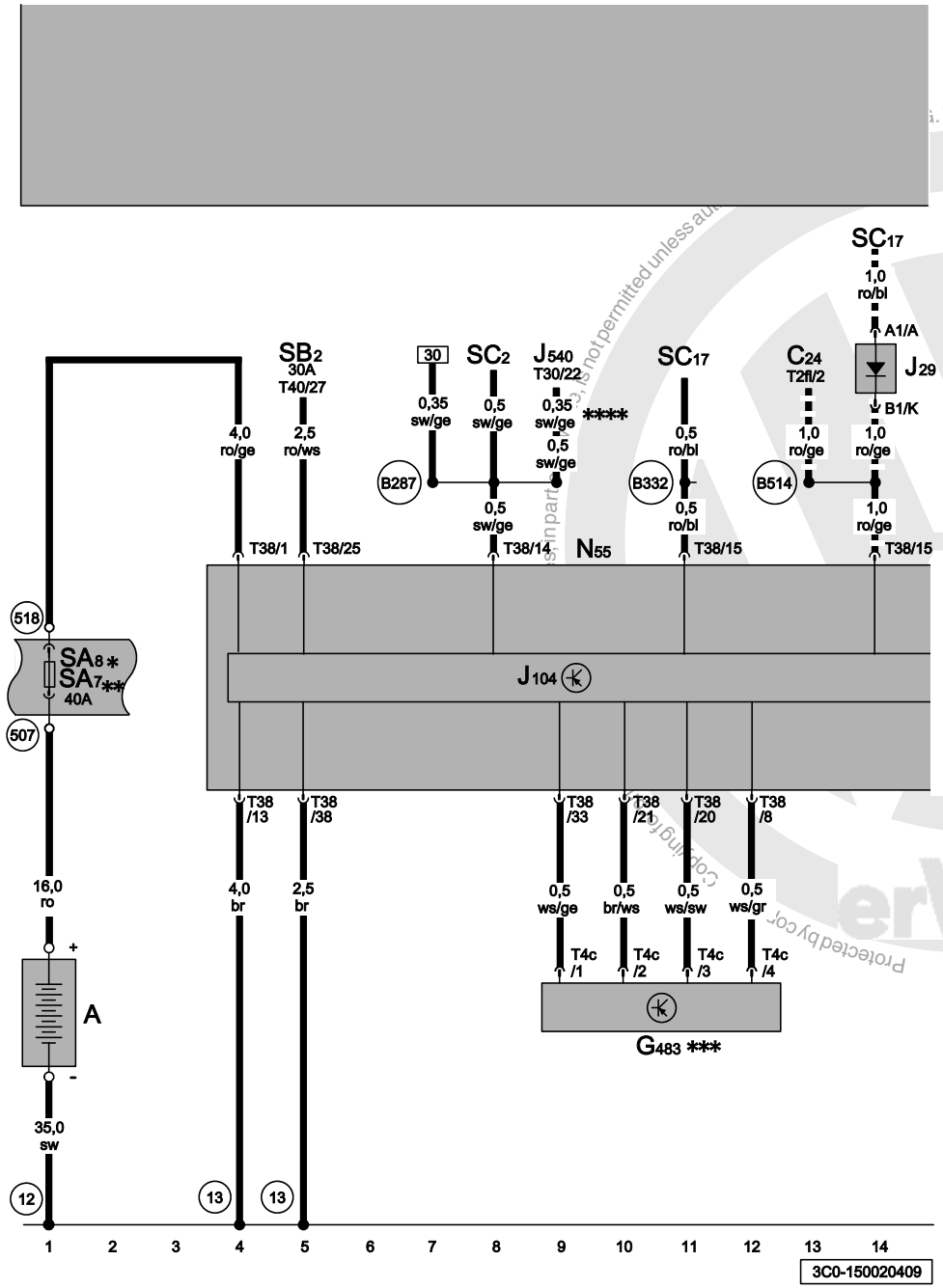
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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ABS control unit, brake servo vacuum sender, ABS hydraulic unit, battery

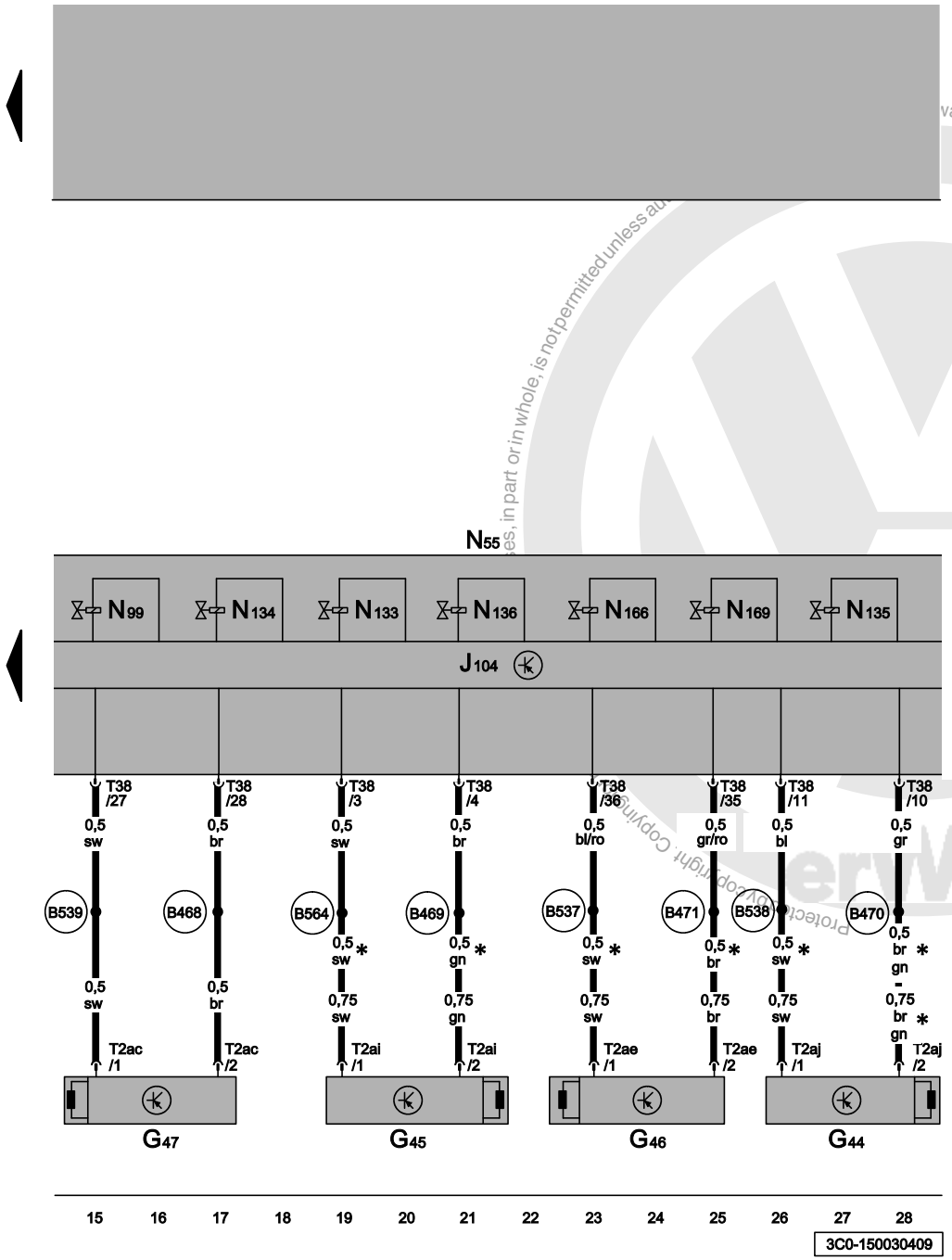
A	Battery
C24	Suppression filter
G483	Brake servo vacuum sender
J29	Blocking diode
J104	ABS control unit
J540	Control unit for electromechanical parking brake
N55	ABS hydraulic unit
SA7	Fuse 7 on fuse holder A
SA8	Fuse 8 on fuse holder A
SB2	Fuse 2 on fuse holder B
SC2	Fuse 2 on fuse holder C
SC17	Fuse 17 on fuse holder C
T2fl	2-pin connector
T4c	4-pin connector, black
T30	30-pin connector
T38	38-pin connector
T40	40-pin connector
12	Earth point, on left in engine compartment
13	Earth point, on right in engine compartment
507	Threaded connection (30), on battery fuse holder
518	Threaded connection 8 (30a) on relay plate
B287	Connection 11 (15a), in main wiring harness
B332	Connection 18 (30a), in main wiring harness
B514	Positive connection 10 (30a), in interior wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Depends on equipment
****	Applicable from May 2009
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/	Only models with start/stop system

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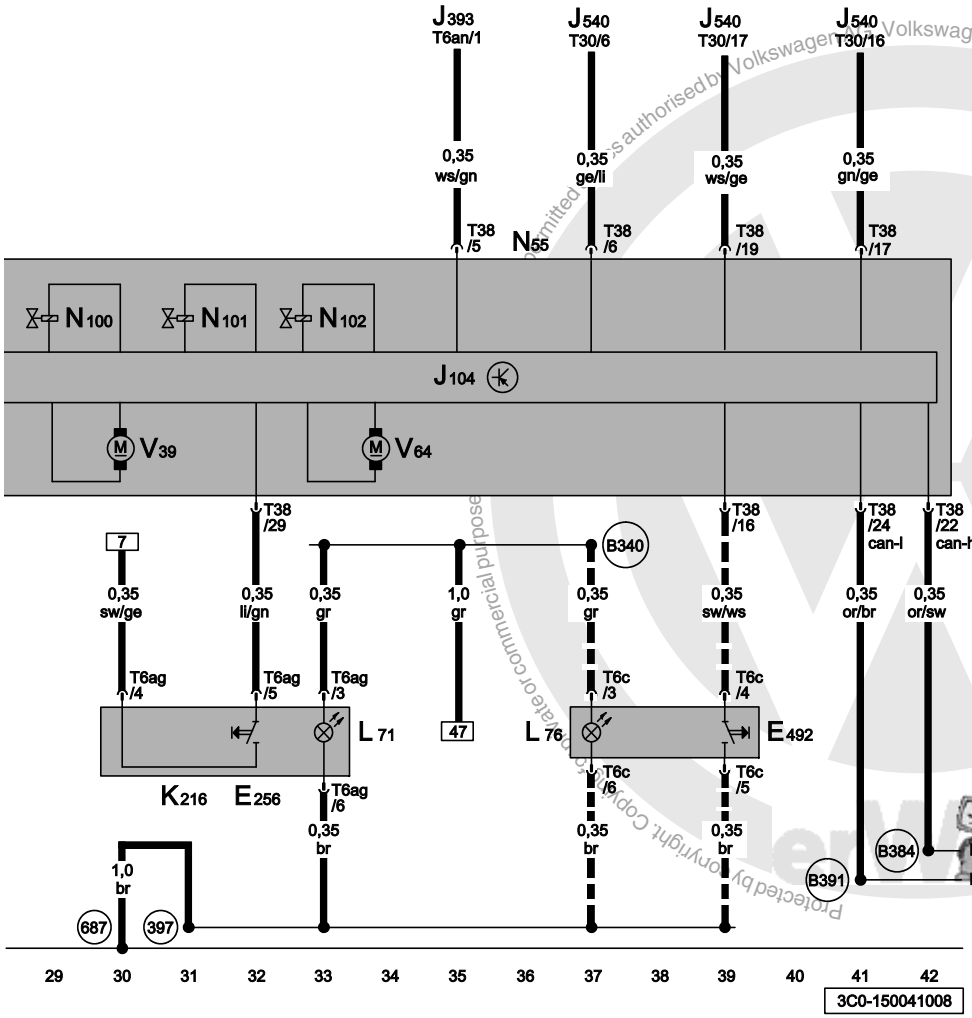
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bl = blue
gr = grey
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or = orange
rs = pink

ABS control unit , ABS hydraulic unit, speed sensor, inlet and outlet valves

G44	Rear right speed sensor
G45	Front right speed sensor
G46	Rear left speed sensor
G47	Front left speed sensor
J104	ABS control unit
N55	ABS hydraulic unit
N99	Front right ABS inlet valve
N133	Rear right ABS inlet valve
N134	Rear left ABS inlet valve
N135	Rear right ABS outlet valve
N136	Rear left ABS outlet valve
N166	Front right EDL changeover valve
N169	Front left EDL outlet valve
T2ac	2-pin connector
T2ae	2-pin connector
T2ai	2-pin connector
T2aj	2-pin connector
T38	38-pin connector
B468	Connection 4, in main wiring harness
B469	Connection 5, in main wiring harness
B470	Connection 6, in main wiring harness
B471	Connection 7, in main wiring harness
B537	Connection 28, in main wiring harness
B538	Connection 29, in main wiring harness
B539	Connection 30, in main wiring harness
B564	Connection 31, in main wiring harness
*	Depends on equipment

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ws = white

ABS control unit, ABS hydraulic unit, TCS and ESP button, tyre pressure monitor display button, ABS hydraulic pump, ABS return flow pump

E256	TCS and ESP button
E492	Tyre pressure monitor display button
J104	ABS control unit
J393	Convenience system central control unit
J540	Control unit for electromechanical parking brake
K216	ESP and TCS warning lamp 2
L71	Traction control switch illumination bulb
L76	Button illumination bulb
N55	ABS hydraulic unit
N100	Front right ABS outlet valve
N101	Front left ABS inlet valve
N102	Front left ABS outlet valve
T6an	6-pin connector
T6c	6-pin connector, blue
T6ag	6-pin connector
T30	30-pin connector
T38	38-pin connector
V39	ABS return flow pump
V64	ABS hydraulic pump
397	Earth connection 32, in main wiring harness
687	Earth point 1, on centre tunnel
B340	Connection 1 (58d), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

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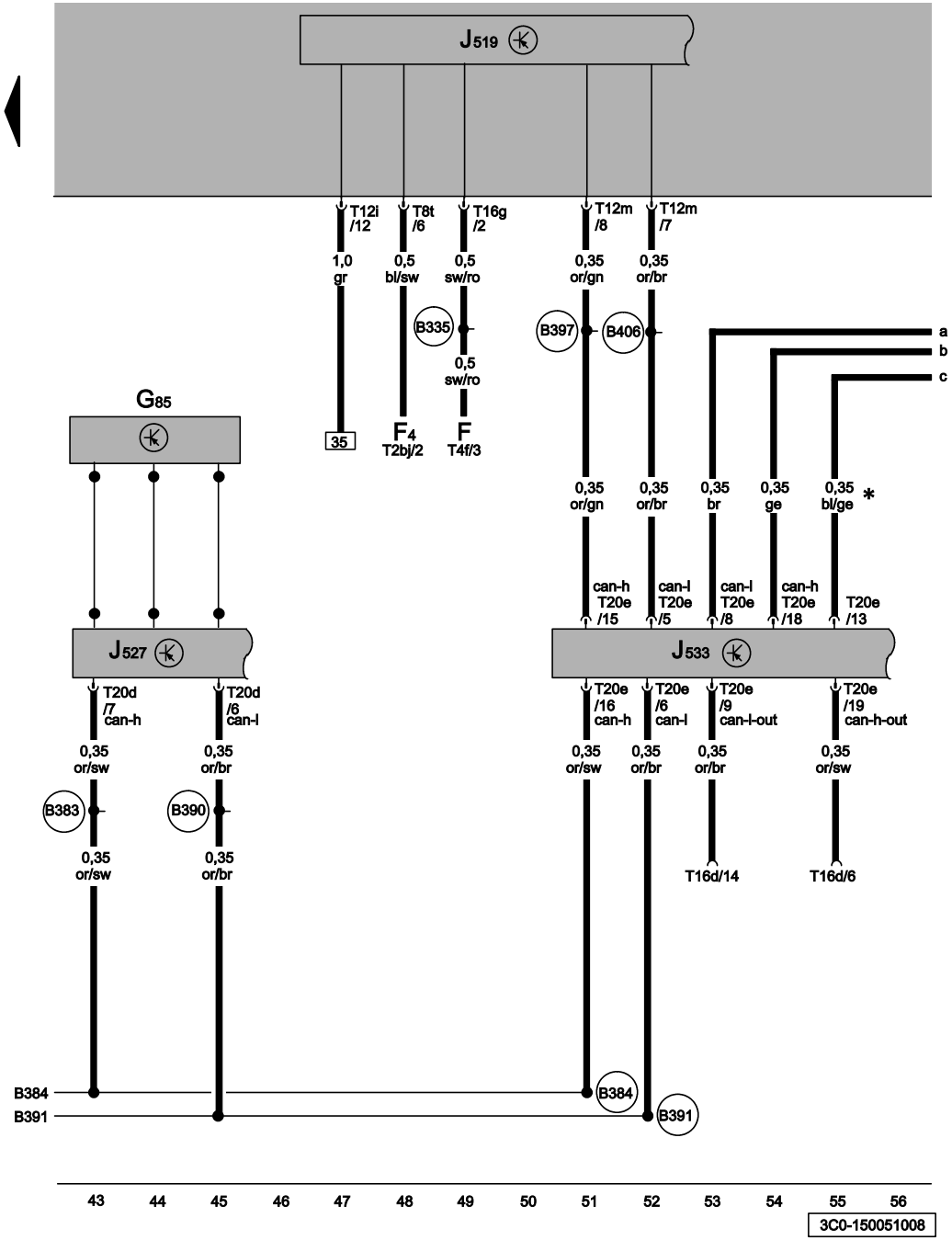
Only models with tyre pressure monitor display

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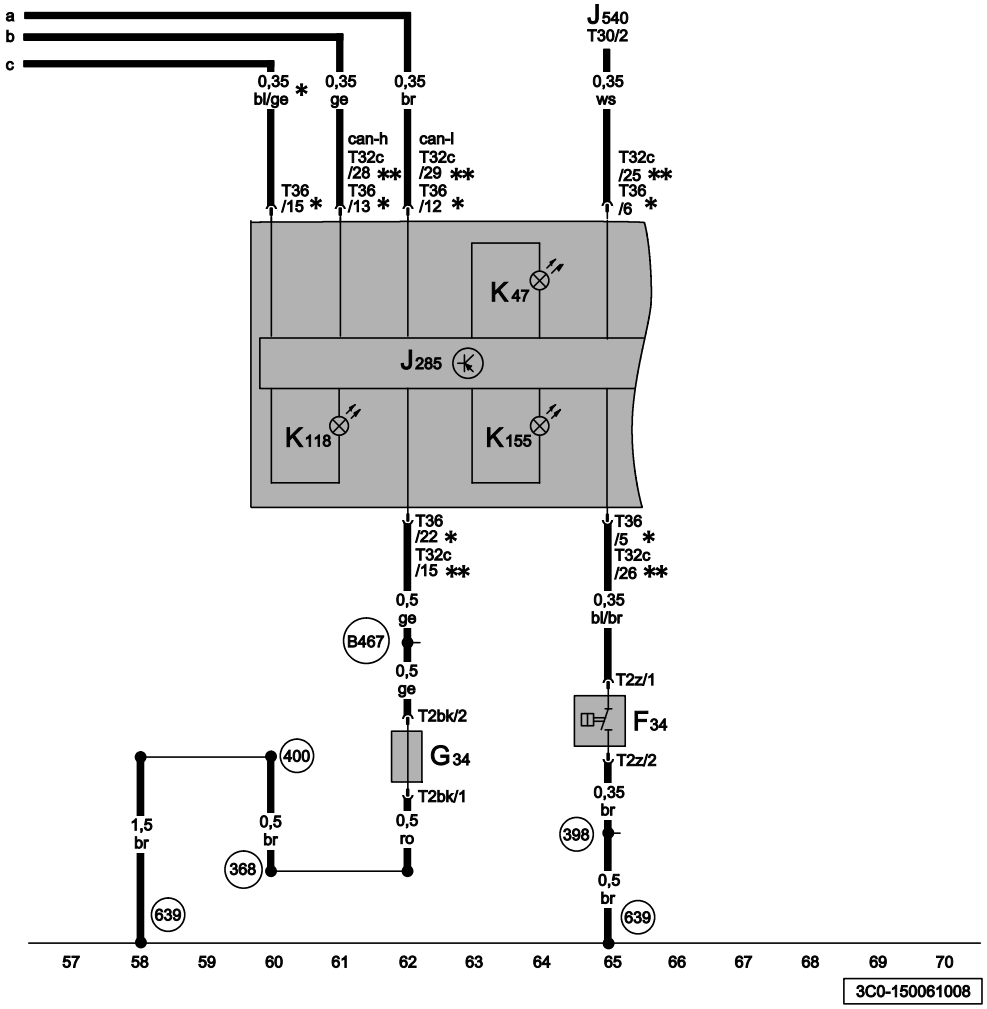


Data bus diagnostic interface, steering column electronics control unit, steering angle sender, self-diagnosis connection

F	Brake light switch
F4	Reversing light switch
G85	Steering angle sender
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
T2bj	2-pin connector
T4f	4-pin connector
T8t	8-pin connector, black
T12i	12-pin connector, black
T12m	12-pin connector, black
T16d	16-pin connector, self-diagnosis connection
T16g	16-pin connector, black
T20d	20-pin connector
T20e	20-pin connector
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Applicable to October 2008

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Control unit in dash panel insert, ABS warning lamp, brake system warning lamp, ESP and TCS warning lamp, brake fluid level warning contact

F34	Brake fluid level warning contact
G34	Front left brake pad wear sender
J285	Control unit in dash panel insert
J540	Control unit for electromechanical parking brake
K47	ABS warning lamp
K118	Brake system warning lamp
K155	ESP and TCS warning lamp
T2z	2-pin connector
T2bk	2-pin connector
T30	30-pin connector
T32c	32-pin connector
T36	36-pin connector
368	Earth connection 3, in main wiring harness
398	Earth connection 33, in main wiring harness
400	Earth connection 35, in main wiring harness
639	Earth point, left A-pillar
B467	Connection 3, in main wiring harness
*	Applicable to October 2008
**	Applicable from November 2008

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Electromechanical parking brake

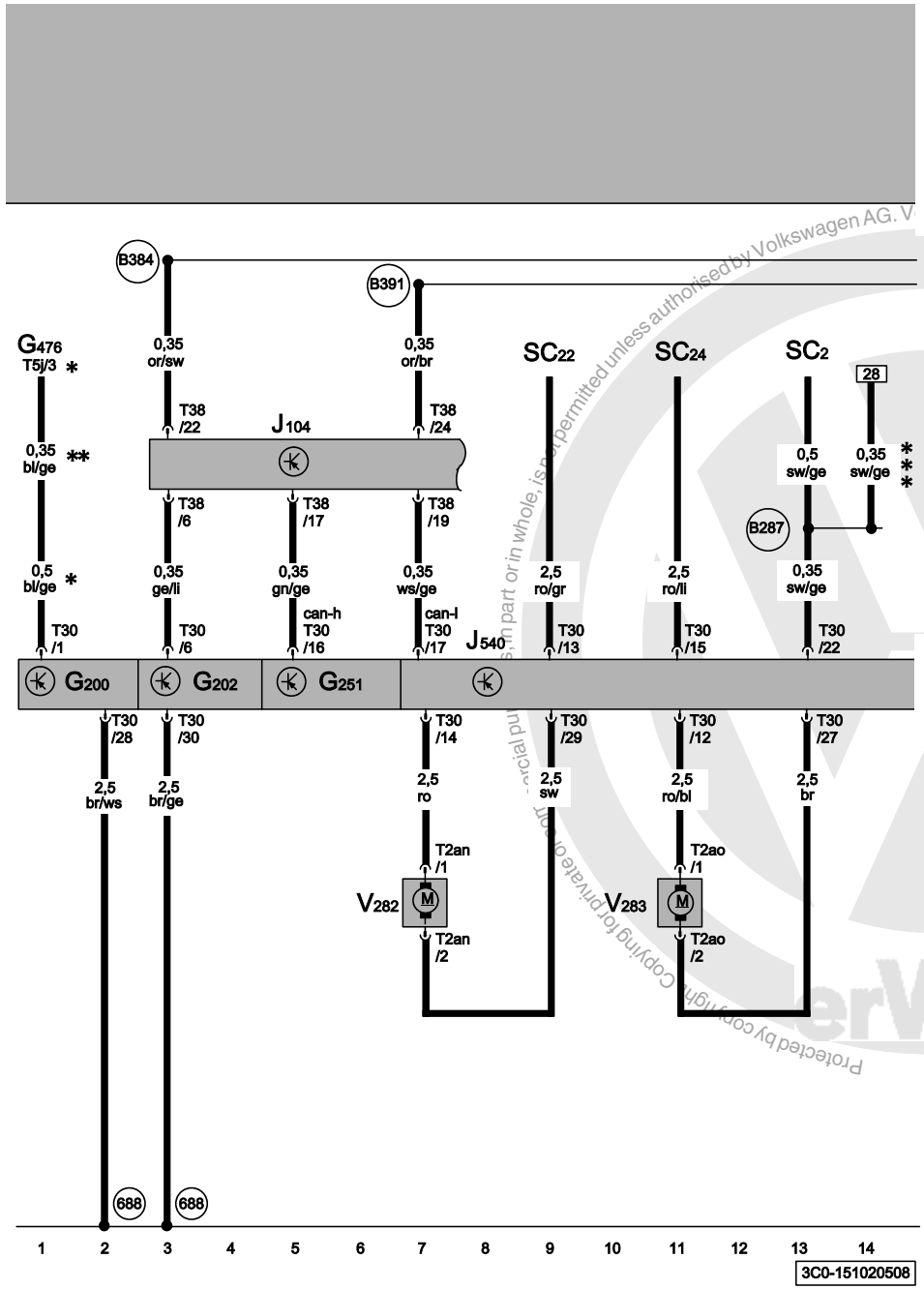
⇒ **Lateral acceleration sender**
⇒ **Yaw rate sender**
From May 2008

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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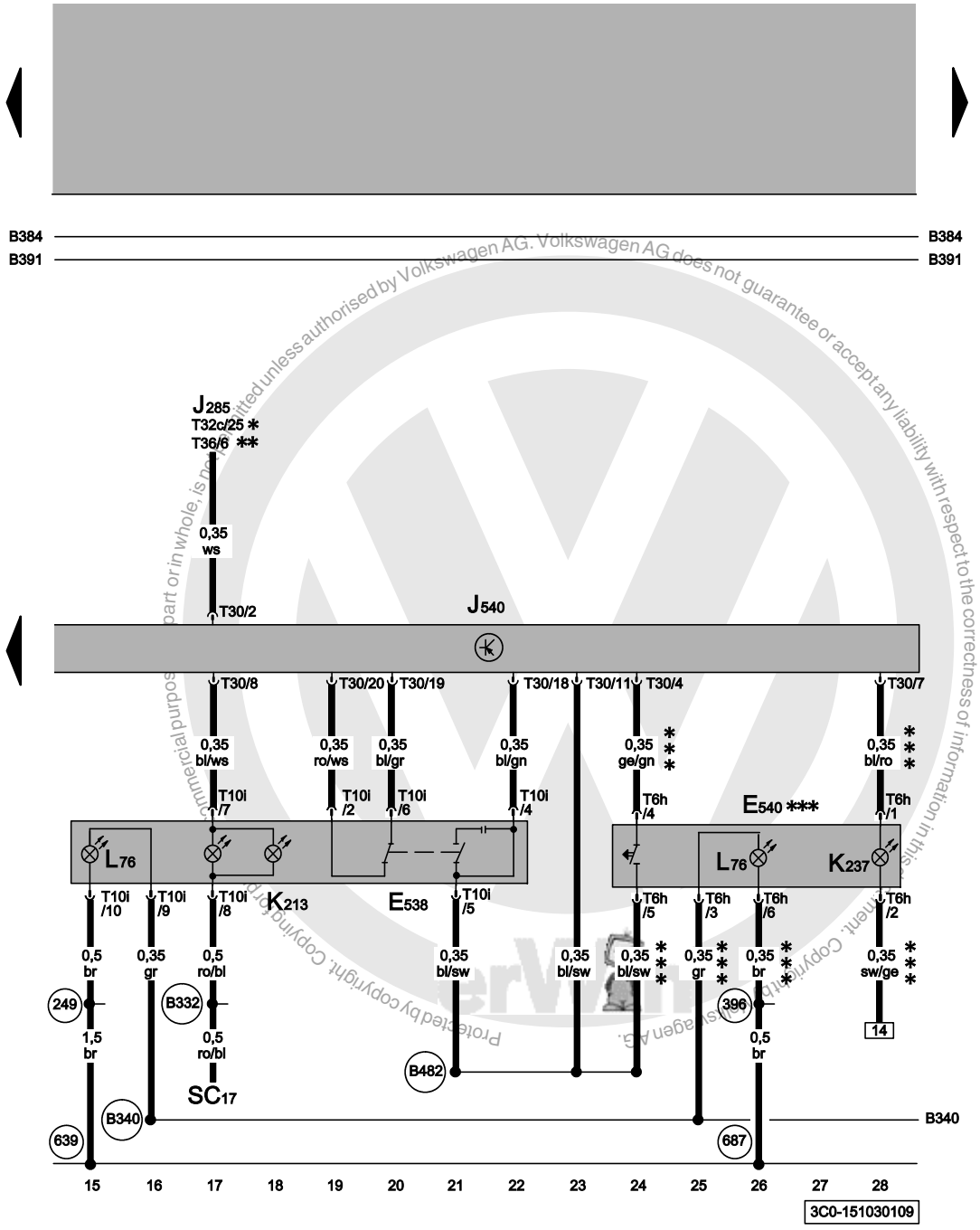


Control unit for electromechanical parking brake, parking brake motors left and right, lateral acceleration sender, yaw rate sender, longitudinal acceleration sender, ABS control unit

G200	Lateral acceleration sender
G202	Yaw rate sender
G251	Longitudinal acceleration sender
G476	Clutch position sender
J104	ABS control unit
J540	Control unit for electromechanical parking brake
SC2	Fuse 2 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC24	Fuse 24 on fuse holder C
T2an	2-pin connector, black
T2ao	2-pin connector, black
T5j	5-pin connector
T30	30-pin connector
T38	38-pin connector
V282	Left parking brake motor
V283	Right parking brake motor
688	Earth point 2, on centre tunnel
B287	Connection 11 (15a), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Only models with manual gearbox
**	Only models with automatic gearbox
***	Only models with auto-hold function

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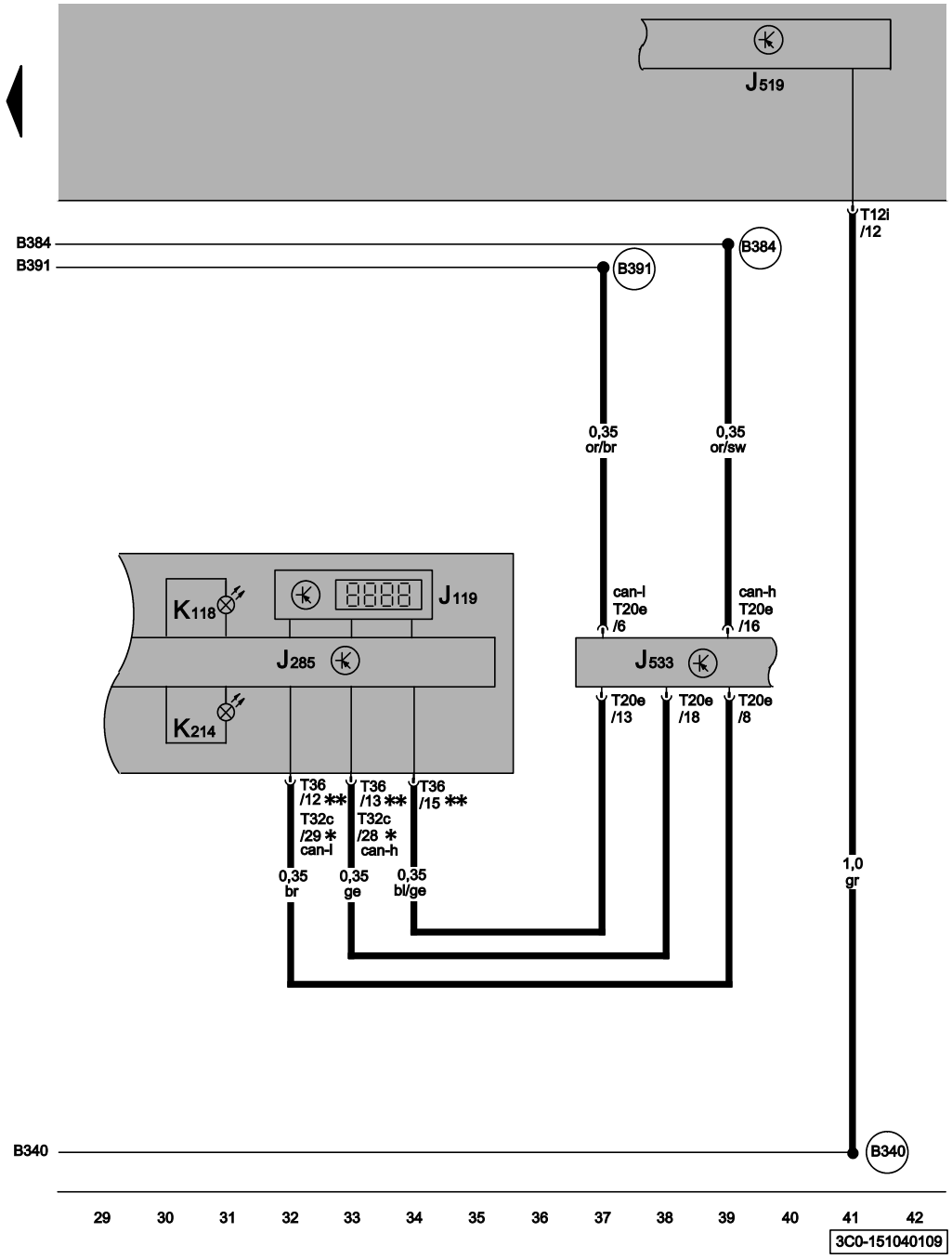


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Control unit for electromechanical parking brake, button for electromechanical parking brake

E538	Button for electromechanical parking brake, left of dash panel
E540	AUTO HOLD button, near gear selector
J285	Control unit in dash panel insert
J540	Control unit for electromechanical parking brake
K213	Electromechanical parking brake warning lamp
K237	Auto-hold warning lamp
L76	Button illumination bulb
SC17	Fuse 17 on fuse holder C
T6h	6-pin connector
T10i	10-pin connector
T30	30-pin connector
T32c	32-pin connector
T36	36-pin connector
249	Earth connection 2, in interior wiring harness
396	Earth connection 31, in main wiring harness
639	Earth point, left A-pillar
687	Earth point 1, on centre tunnel
B332	Connection 18 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B482	Connection 18, in main wiring harness
***	Only models with auto-hold function
*	Applicable from November 2008
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Dash panel insert, multifunction display, data bus diagnosis interface

J119	Multifunction display
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
K118	Brake system warning lamp
K214	Electric parking brake and handbrake fault warning lamp
T12i	12-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
B340	Connection 1 (58d), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008

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Electronic damper control

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Notes:

For information concerning

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- Earth connections

⇒ Overview of Fitting Locations!

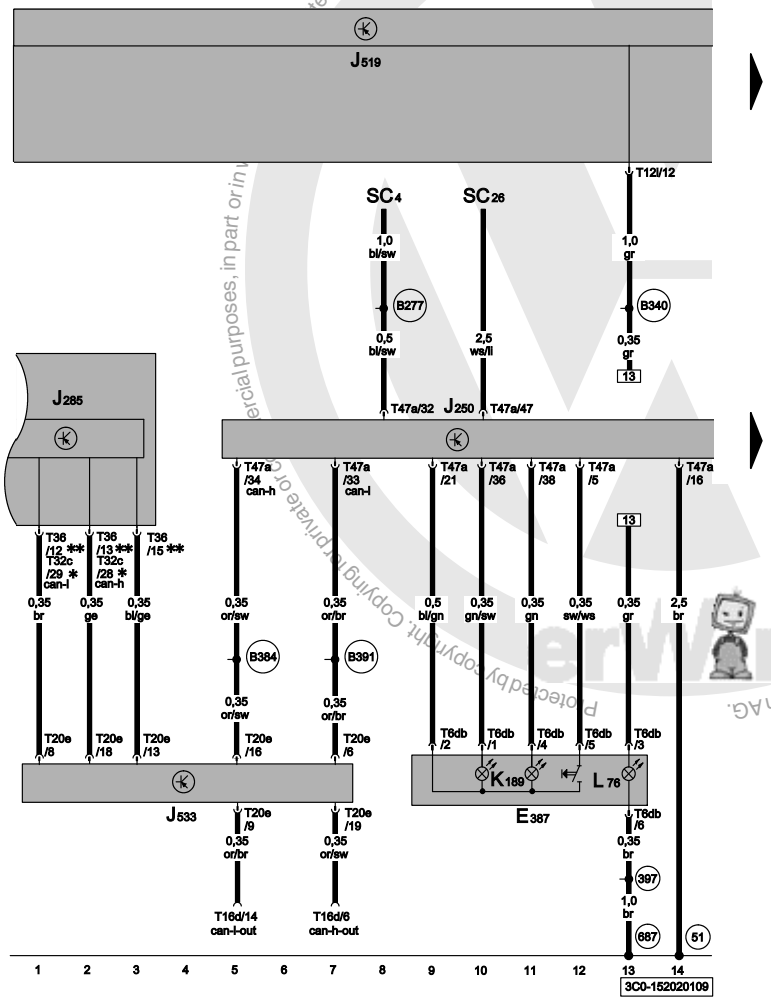
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Passat — Stromlaufplan



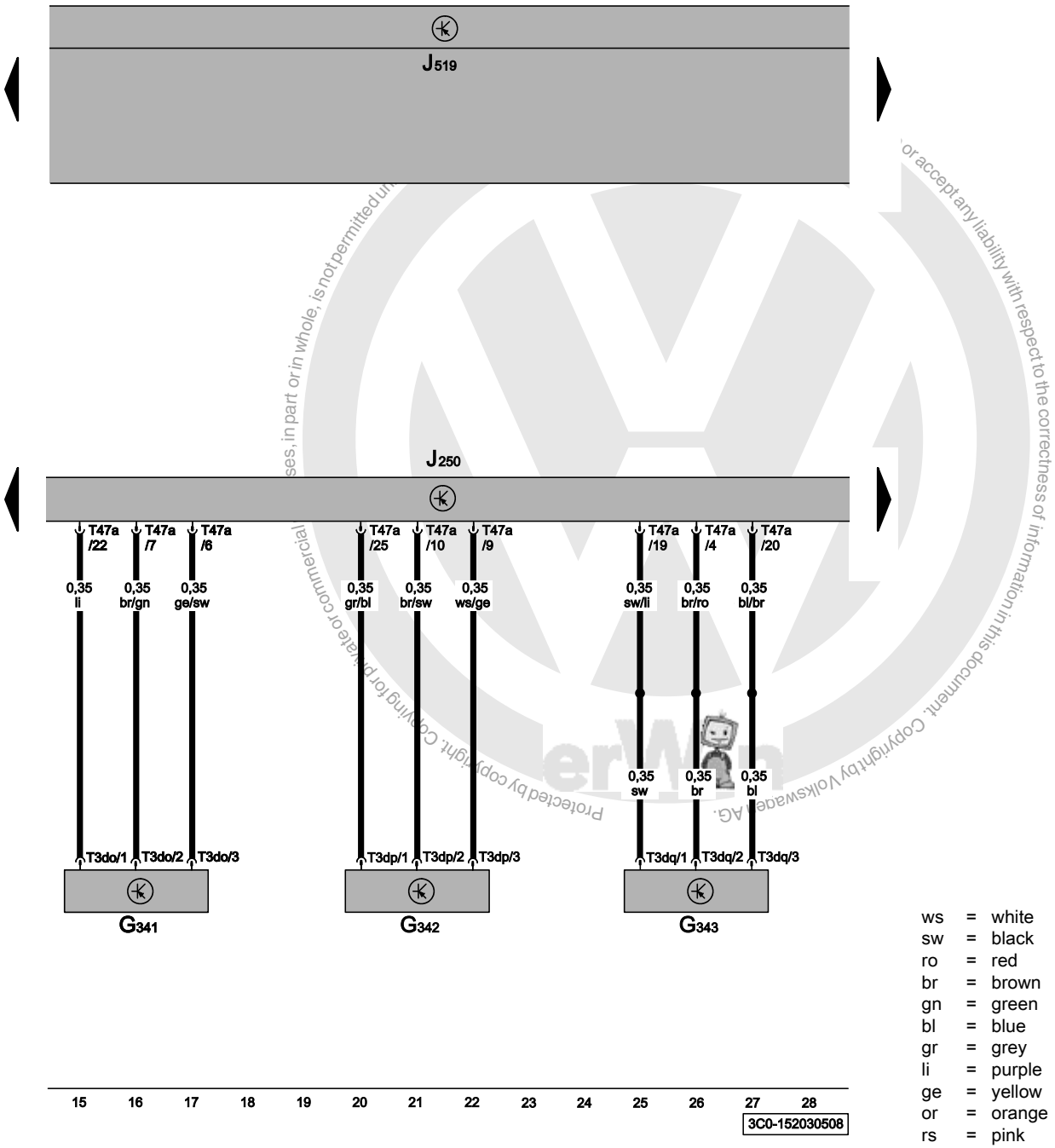
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Electronically controlled damping control unit, shock absorber damping adjustment button, shock absorber damping adjustment warning lamp, self-diagnosis connection

E387	Shock absorber damping adjustment button
J250	Electronically controlled damping control unit
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
K189	Shock absorber damping adjustment warning lamp
L76	Button illumination bulb
SC4	Fuse 4 on fuse holder C
SC26	Fuse 26 on fuse holder C
T6db	6-pin connector, brown
T12i	12-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
T47a	47-pin connector
51	Earth point, on right in luggage compartment
397	Earth connection 32, in main wiring harness
687	Earth point 1, on centre tunnel
B277	Connection 1 (15a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

* Applicable from November 2008
** Applicable up to October 2008

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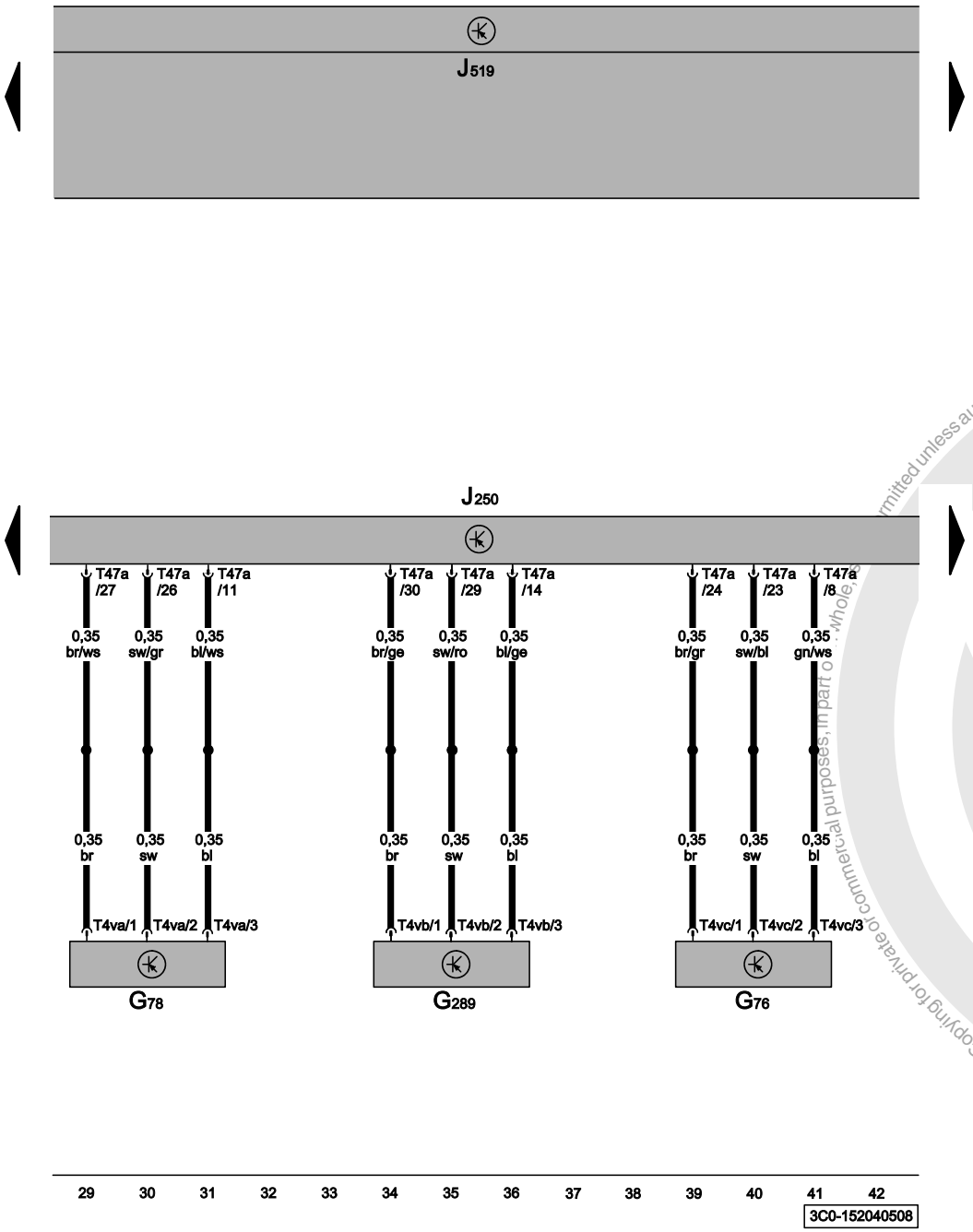


Electronically controlled damping control unit, body acceleration sensor

G341	Front left body acceleration sender
G342	Front right body acceleration sender
G343	Rear body acceleration sender
J250	Electronically controlled damping control unit
J519	Onboard supply control unit
T3do	3-pin connector, black
T3dp	3-pin connector, black
T3dq	3-pin connector, black
T47a	47-pin connector

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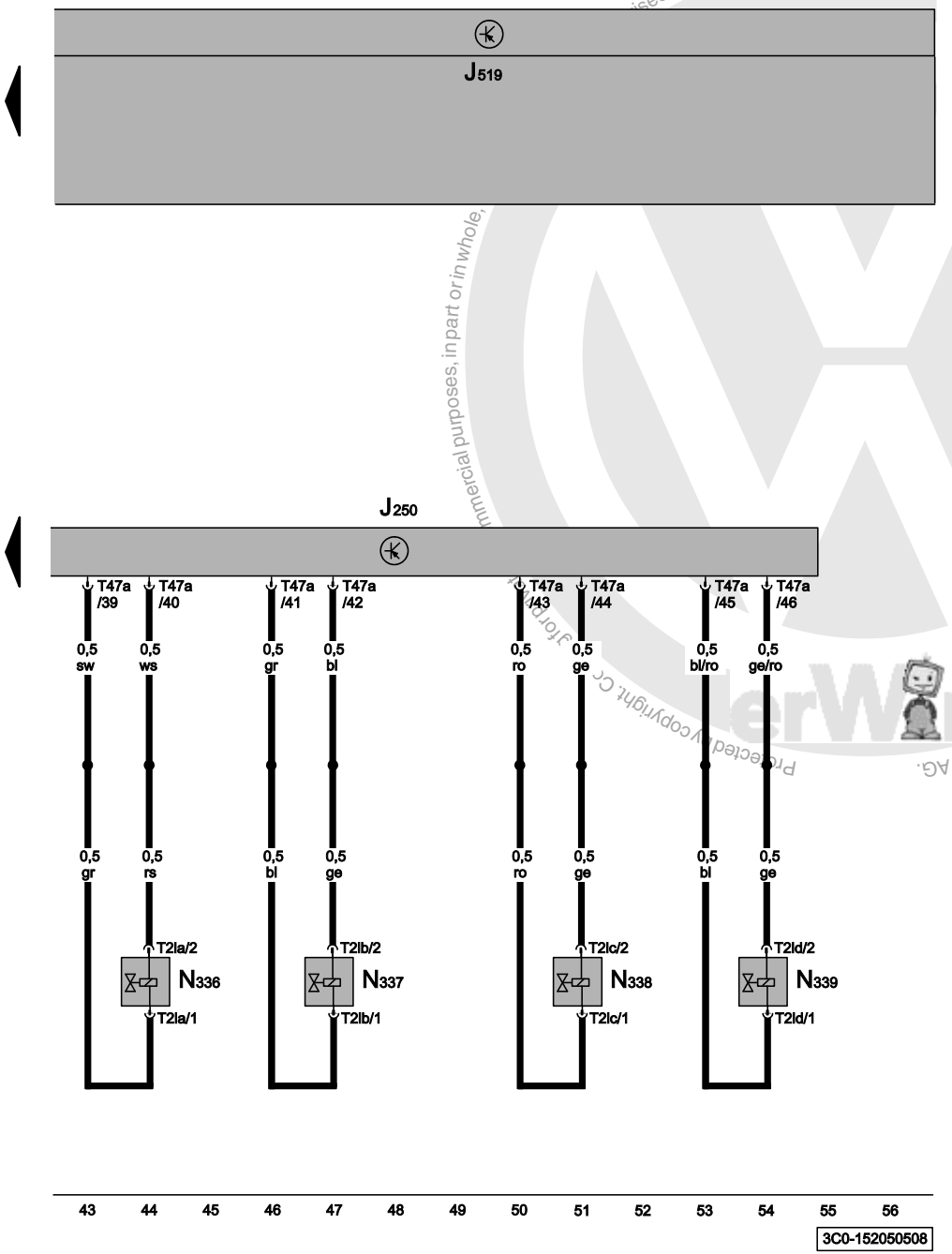
Electronically controlled damping control unit, vehicle level sender

G76	Rear left vehicle level sender
G78	Front left vehicle level sender
G289	Front right vehicle level sender
J250	Electronically controlled damping control unit
J519	Onboard supply control unit
T4va	4-pin connector, black
T4vb	4-pin connector, black
T4vc	4-pin connector, black
T47a	47-pin connector

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Electronically controlled damping control unit, shock absorber damper adjustment valve

J250	Electronically controlled damping control unit
J519	Onboard supply control unit
N336	Front left shock absorber damper adjustment valve
N337	Front right shock absorber damper adjustment valve
N338	Rear left shock absorber damper adjustment valve
N339	Rear right shock absorber damping adjustment valve
T2la	2-pin connector, brown
T2lb	2-pin connector, brown
T2lc	2-pin connector, brown
T2ld	2-pin connector, brown
T47a	47-pin connector

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Climatic

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

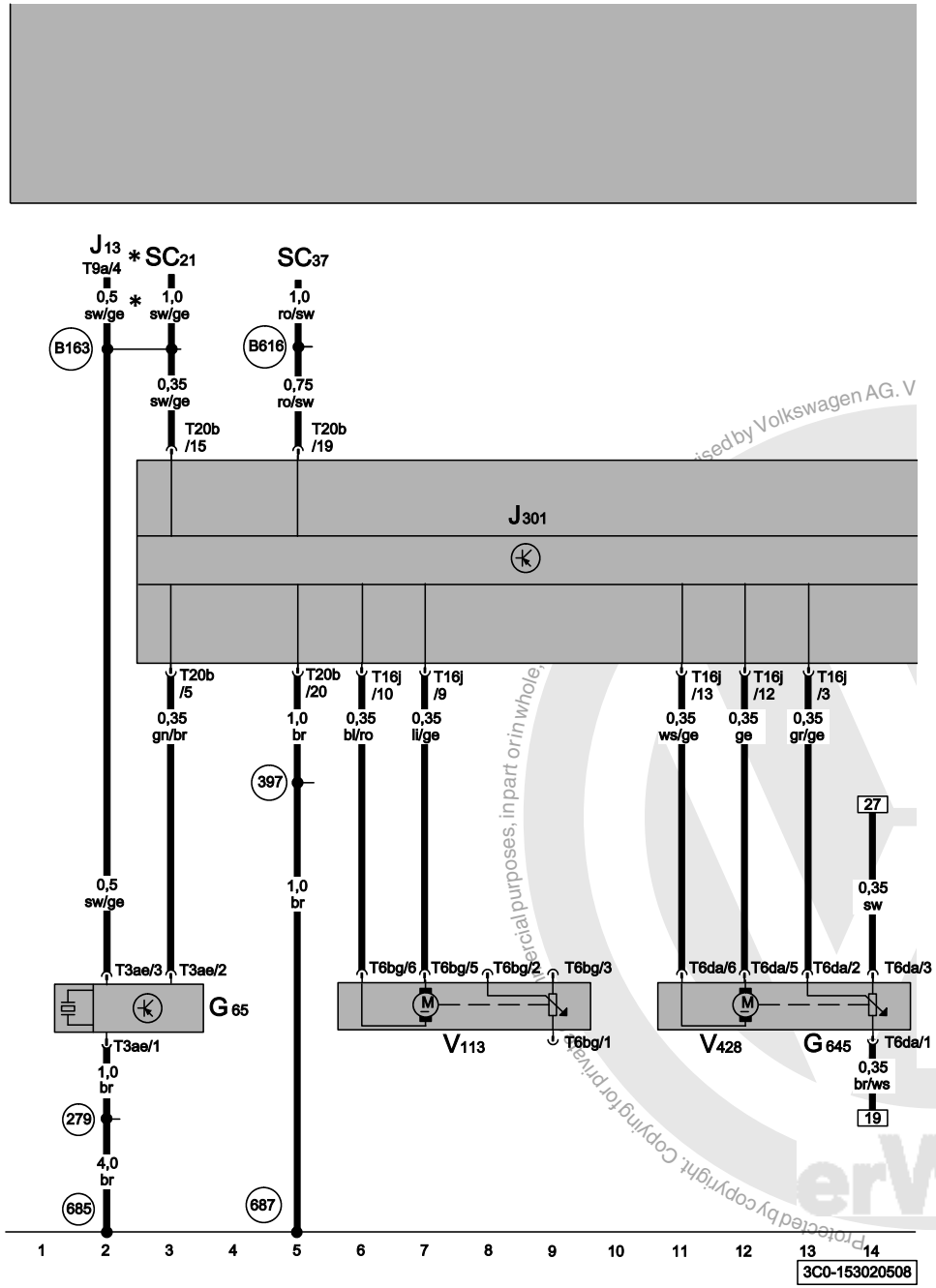
⇒ Overview of Fitting Locations!

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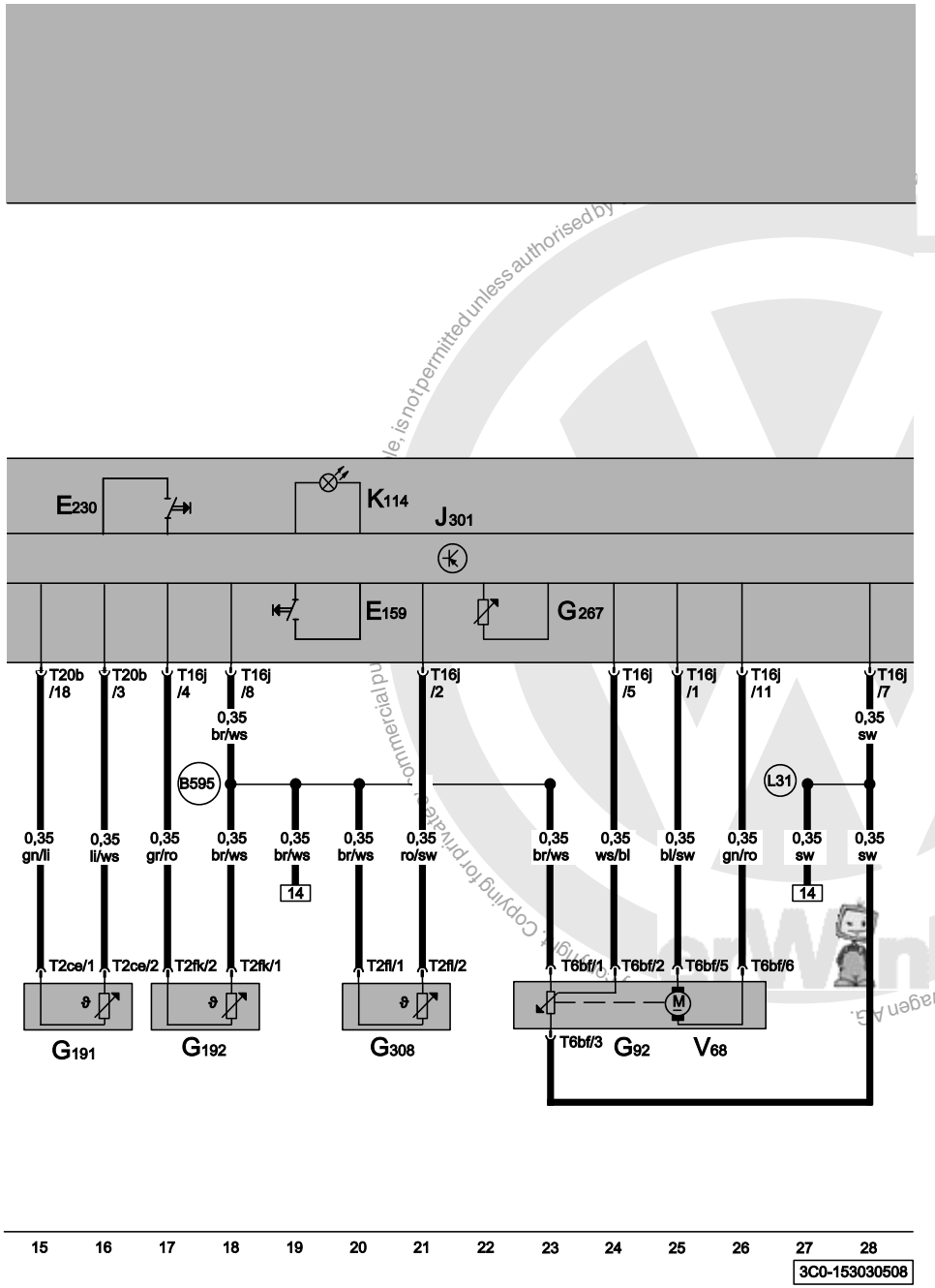


Air conditioning system control unit, high-pressure sender, temperature flap control motor potentiometer, fresh air blower relay, air distribution flap control motor, air recirculation flap control motor

G65	High-pressure sender
G645	Potentiometer for air distribution flap control motor
J13	Fresh air blower relay
J301	Air conditioning system control unit
SC21	Fuse 21 on fuse holder C
SC37	Fuse 37 on fuse holder C
T3ae	3-pin connector
T6bg	6-pin connector
T6da	6-pin connector, blue
T9a	9-pin connector
T16j	16-pin connector, black
T20b	20-pin connector, black
V113	Air recirculation flap control motor
V428	Air distribution flap control motor
279	Earth connection 5, in interior wiring harness
397	Earth connection 32, in main wiring harness
685	Earth point 1 at front of right longitudinal member
687	Earth point 1, on centre tunnel
B163	Positive connection 1 (15), in interior wiring harness
B616	Positive connection 12 (30a), in interior wiring harness
*	Only models with auxiliary coolant heater

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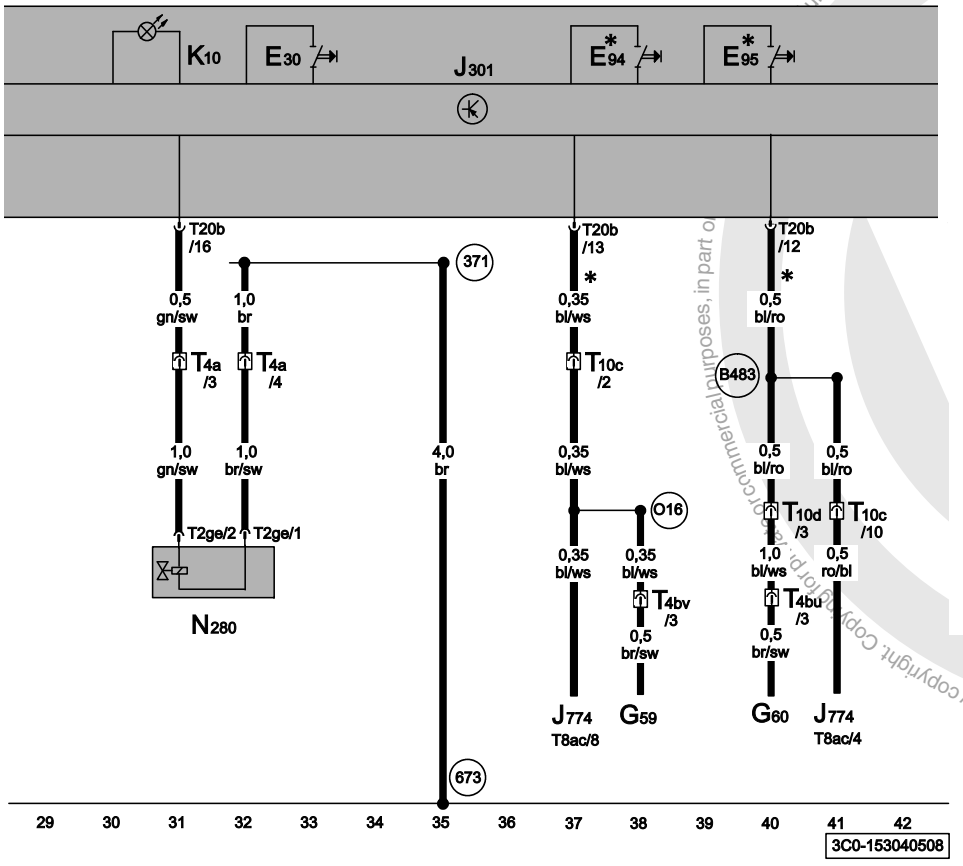


Air conditioning system control unit, fresh air and air recirculation flap switch, heated rear window button, centre vent temperature sender, footwell vent temperature sender, potentiometer for temperature flap control motor, temperature flap control motor, evaporator temperature sensor

E159	Fresh air and air recirculation flap switch
E230	Heated rear window button
G92	Potentiometer for temperature flap control motor
G191	Centre vent temperature sender
G192	Footwell vent temperature sender
G267	Potentiometer for temperature selection rotary knob
G308	Evaporator temperature sensor
J301	Air conditioning system control unit
K114	Fresh air and air recirculation warning lamp
T2ce	2-pin connector
T2fk	2-pin connector, black
T2fl	2-pin connector, black
T6bf	6-pin connector
T16j	16-pin connector, black
T20b	20-pin connector, black
V68	Temperature flap control motor
B595	Connection 2, in Climatic wiring harness
L31	Connection 2, in Climatic wiring harness

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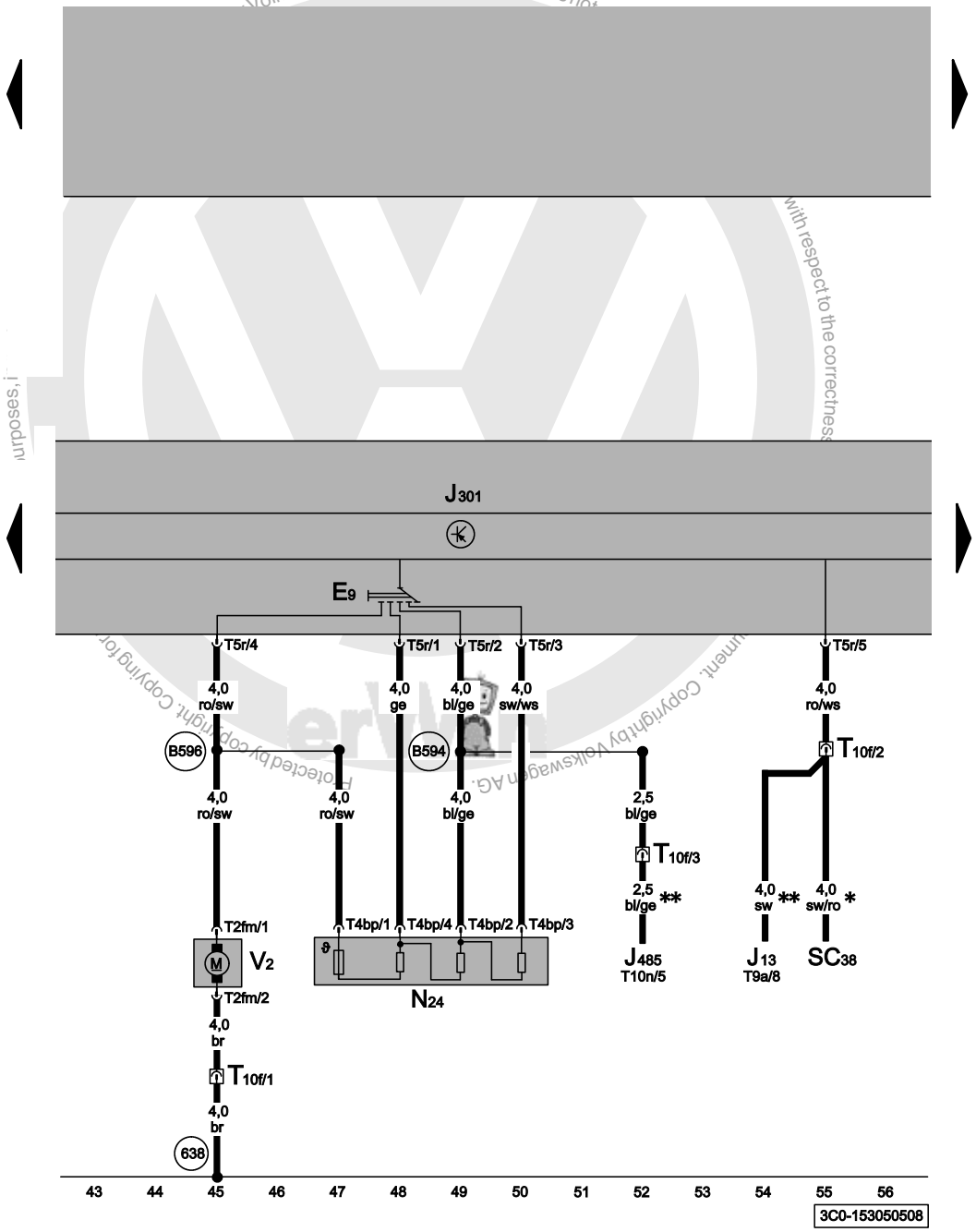
Air conditioning system control unit, air conditioner compressor regulating valve

E30	Air conditioning system switch
E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
G59	Driver seat temperature sensor
G60	Front passenger seat temperature sensor
J301	Air conditioning system control unit
J774	Control unit for heated front seats
K10	Heated rear window warning lamp
N280	Air conditioner compressor regulating valve
T2ge	2-pin connector
T4a	4-pin connector, near starter
T4bu	4-pin connector, black, under front passenger seat seat
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector, black
T10c	10-pin connector, black, coupling point driver side, under seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
T20b	20-pin connector, black
371	Earth connection 6, in main wiring harness
673	Earth point 3, on front of left longitudinal member
B483	Connection 19, in main wiring harness
O16	Connection 5, in seat heating wiring harness
*	Only models with seat heating

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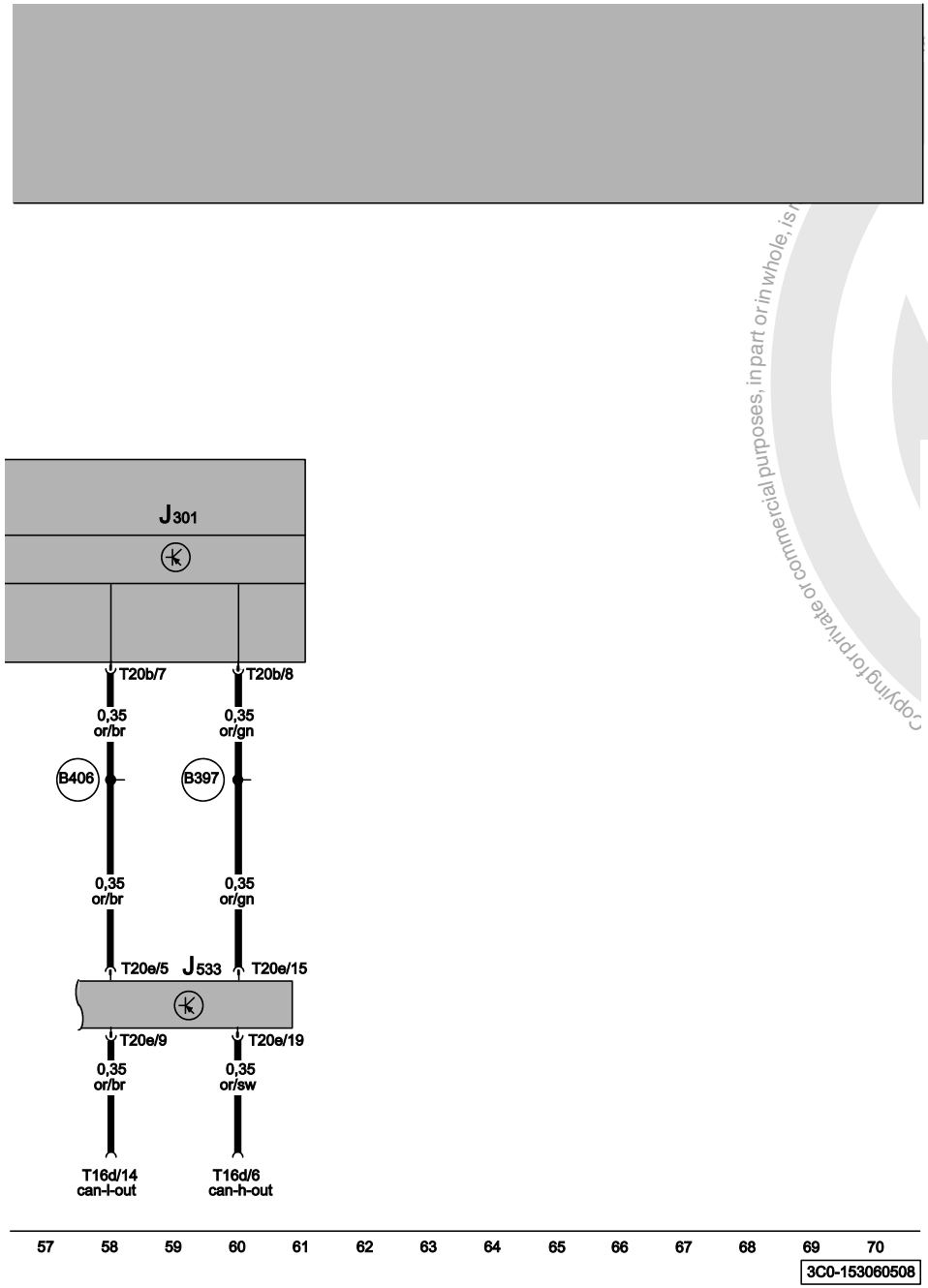
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Air conditioning system control unit, fresh air blower switch, fresh air blower series resistor with overheating fuse, fresh air blower

E9	Fresh air blower switch
J13	Fresh air blower relay
J301	Air conditioning system control unit
J485	Auxiliary heater operation relay
N24	Fresh air blower series resistor with overheating fuse
SC38	Fuse 38 on fuse holder C
T2fm	2-pin connector, black
T4bp	4-pin connector, black
T5r	5-pin connector, black
T9a	9-pin connector
T10f	10-pin connector, black, heater/air conditioner
T10n	10-pin connector
V2	Fresh air blower
638	Earth point, on right A-pillar
B594	Connection 1, in Climatic wiring harness
B596	Connection 3, in Climatic wiring harness
*	Only models with no auxiliary coolant heater
**	Only models with auxiliary coolant heater

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Air conditioning system control unit, data bus diagnostic interface, self-diagnosis connection

J301	Air conditioning system control unit
J533	Data bus diagnosis interface
T16d	16-pin connector, self-diagnosis connection
T20b	20-pin connector, black
T20e	20-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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Climatronic

From May 2008

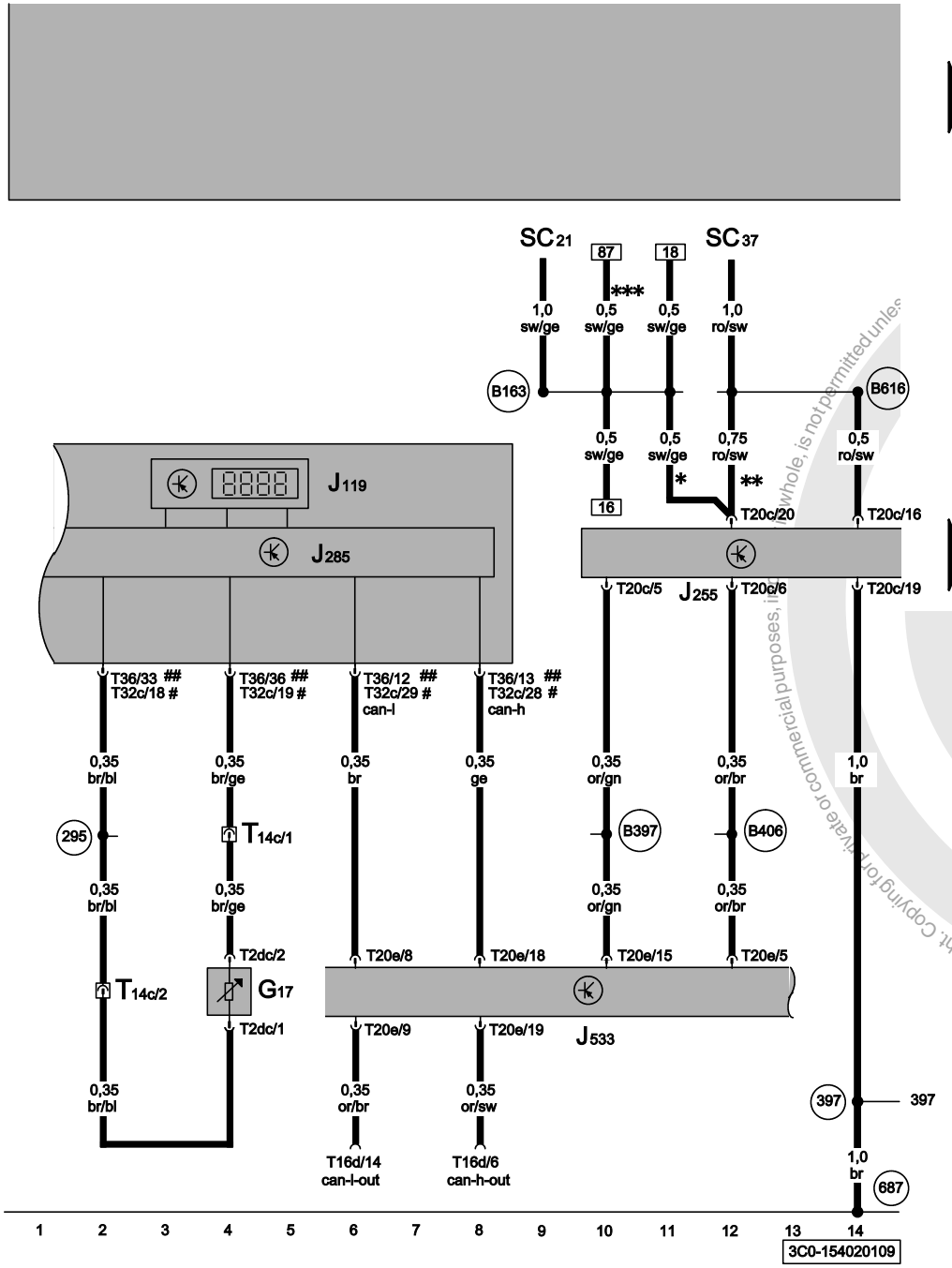
Notes:

For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

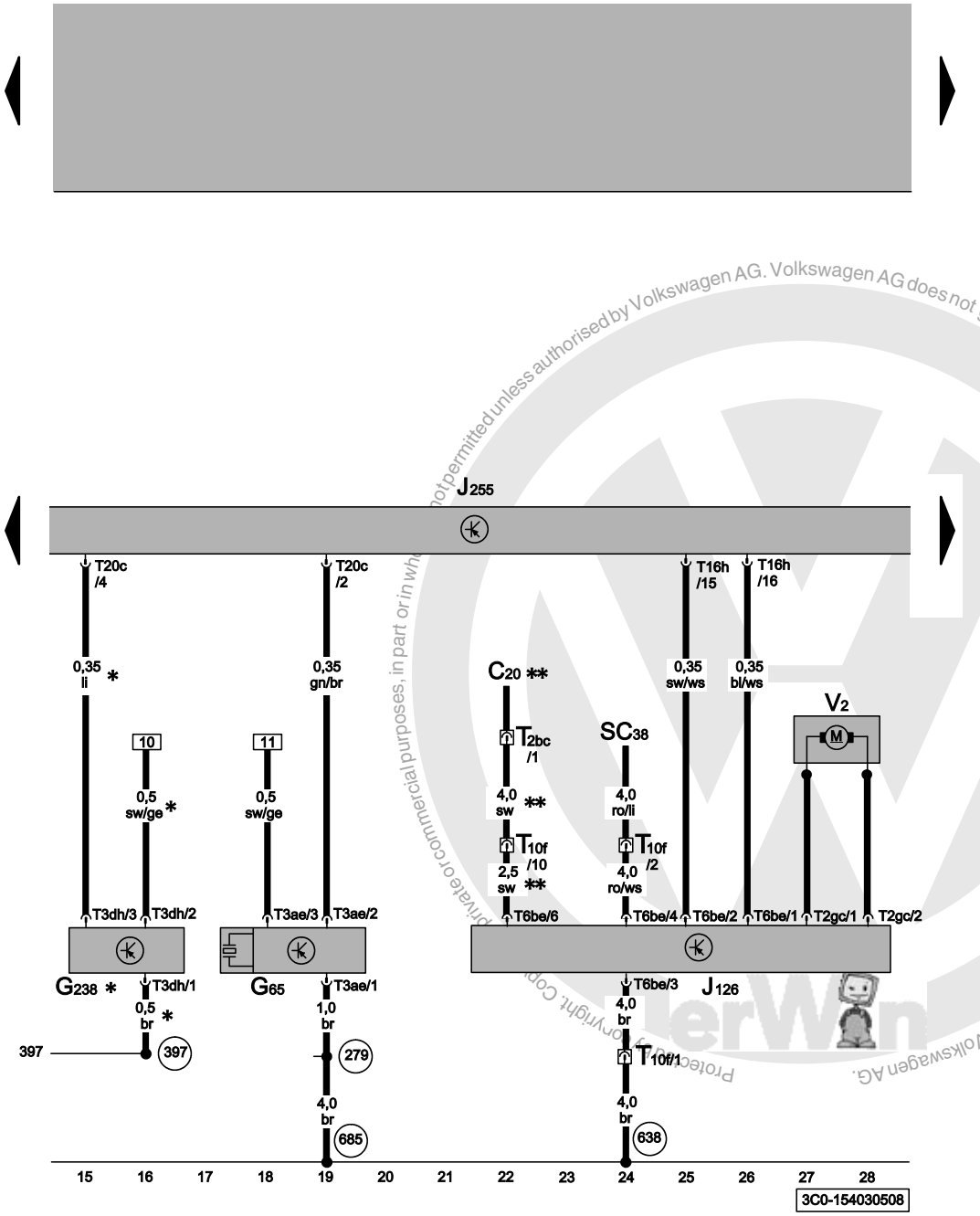


Dash panel insert, ambient temperature sender, Climatronic control unit, self-diagnosis connection, fuses

G17	Ambient temperature sensor
J119	Multifunction display
J255	Climatronic control unit
J285	Control unit in dash panel insert
J533	Data bus diagnosis interface
SC21	Fuse 21 on fuse holder C
SC37	Fuse 37 on fuse holder C
T2dc	2-pin connector
T14c	14-pin connector, front bumper coupling point, left
T16d	16-pin connector, self-diagnosis connection
T20c	20-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
295	Earth connection 10, in interior wiring harness
397	Earth connection 32, in main wiring harness
687	Earth point 1, on centre tunnel
B163	Positive connection 1 (15), in interior wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B616	Positive connection 12 (30a), in interior wiring harness
*	Only models with no auxiliary coolant heater
**	Only models with auxiliary coolant heater
***	Only seat heating
#	Applicable from November 2008
##	Applicable up to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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Climatronic control unit, fresh air blower control unit, high-pressure sender, air quality sensor, fresh air blower

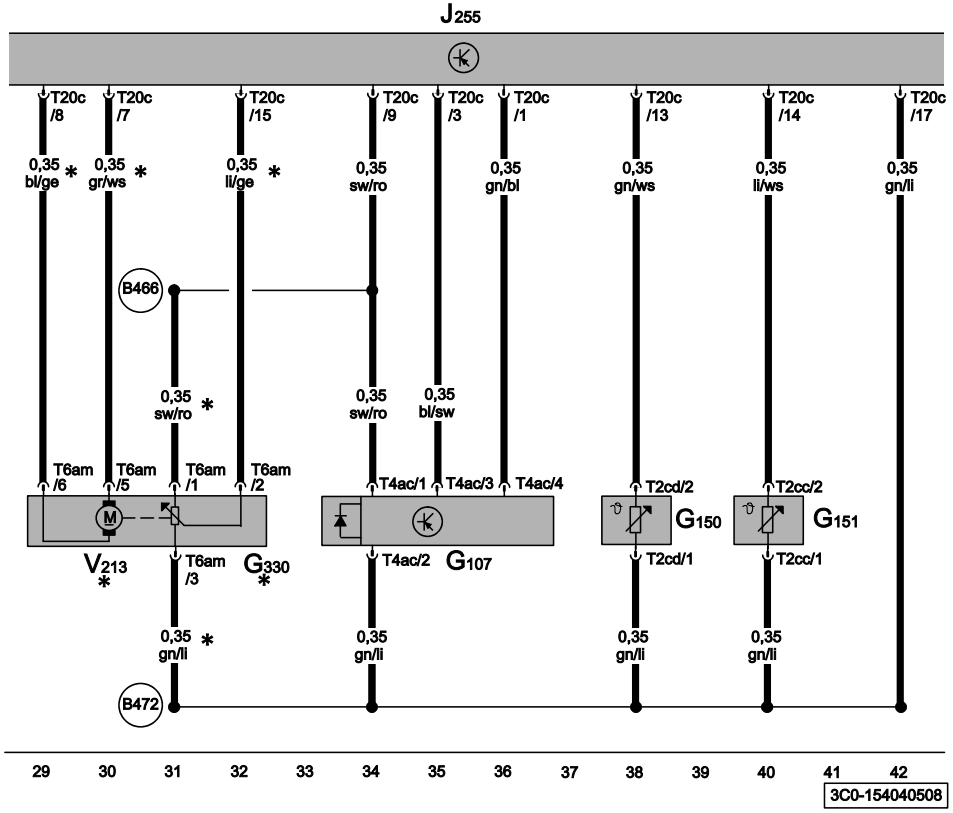
C20	Solar cells
G65	High-pressure sender
G238	Air quality sensor
J126	Fresh air blower control unit
J255	Climatronic control unit
SC38	Fuse 38 on fuse holder C
T2bc	2-pin connector
T2gc	2-pin connector
T3ae	3-pin connector
T3dh	3-pin connector, grey
T6be	6-pin connector
T10f	10-pin connector, coupling point for heater/air conditioning system
T16h	16-pin connector
T20c	20-pin connector
V2	Fresh air blower
279	Earth connection 5, in interior wiring harness
397	Earth connection 32, in main wiring harness
638	Earth point, on right A-pillar
685	Earth point 1 at front of right longitudinal member
*	Not for American markets
**	Only solar roof

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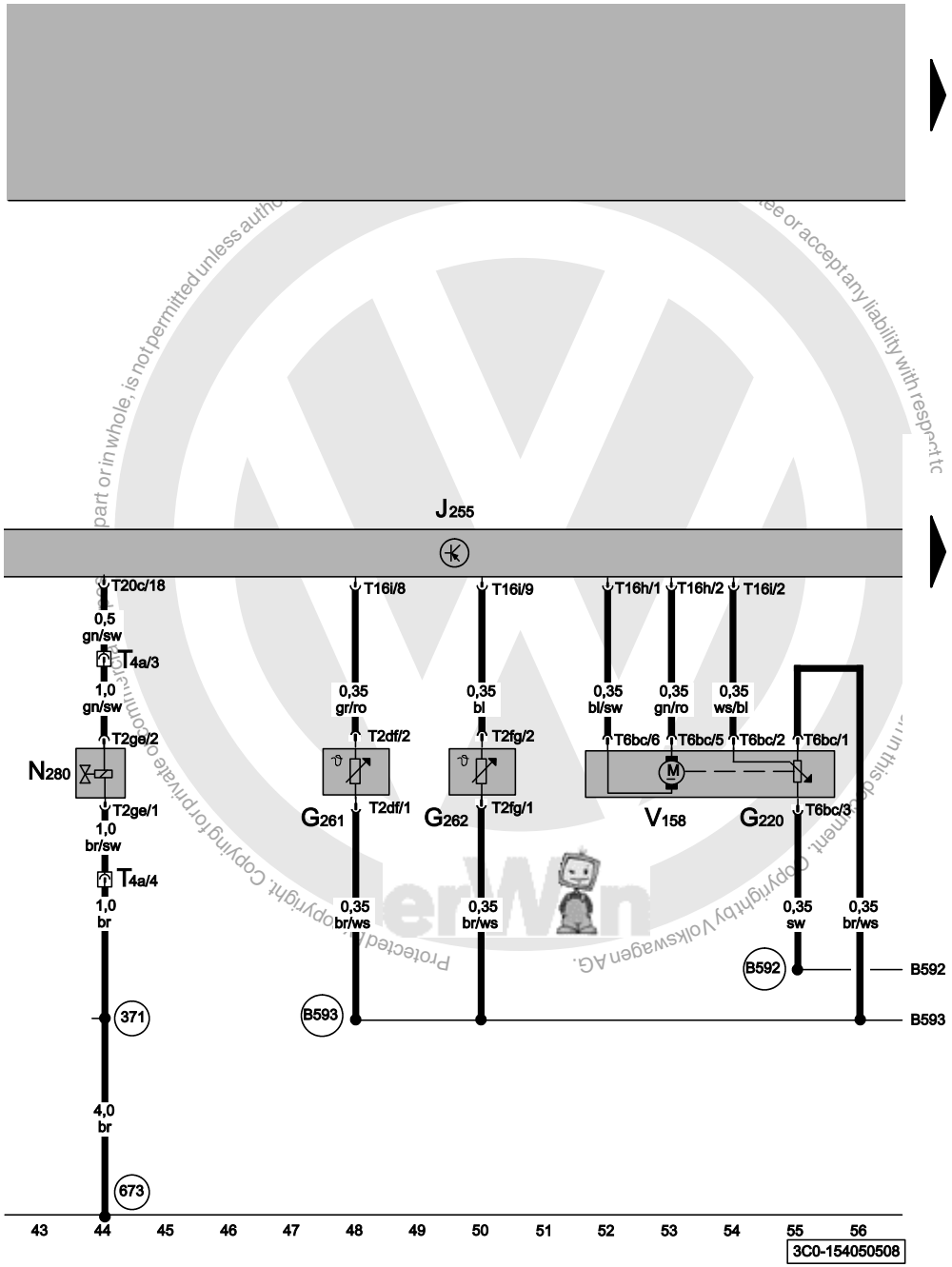
Climatronic control unit, sunlight penetration photosensor, vent temperature sender, indirect ventilation flap control motor

G107	Sunlight penetration photosensor
G150	Left vent temperature sender
G151	Right vent temperature sender
G330	Potentiometer for indirect ventilation flap control motor
J255	Climatronic control unit
T2cc	2-pin connector
T2cd	2-pin connector
T4ac	4-pin connector
T6am	6-pin connector, blue
T20c	20-pin connector
V213	Indirect ventilation flap control motor
B466	Connection 2, in main wiring harness
B472	Connection 8, in main wiring harness
*	Not for American markets



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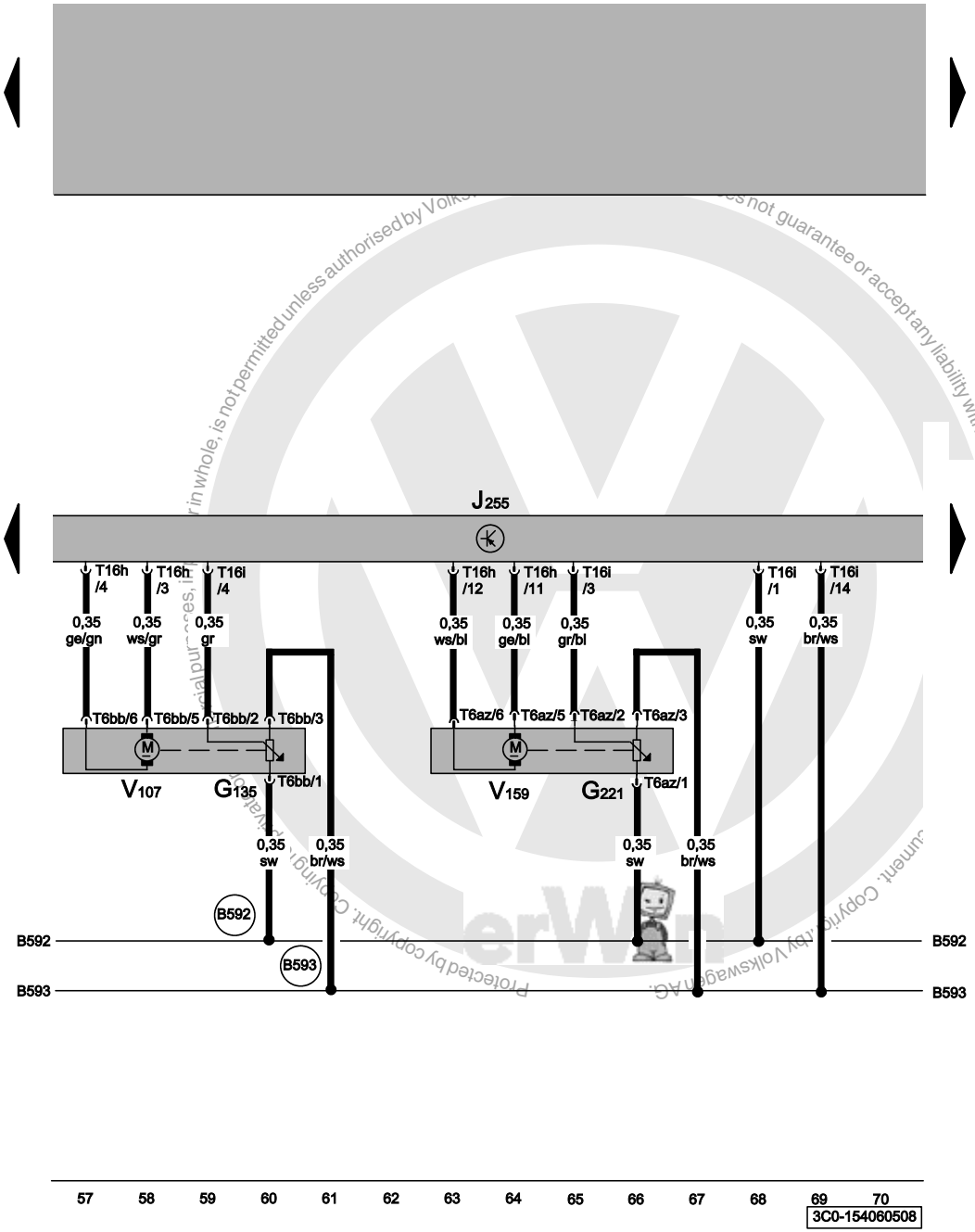
Climatronic control unit, footwell vent temperature sender, air recirculation flap control motor, left temperature flap control motor

G220	Potentiometer for left temperature flap control motor
G261	Left footwell vent temperature sender
G262	Right footwell vent temperature sender
J255	Climatronic control unit
N280	Air conditioner compressor regulating valve
T2df	2-pin connector
T2fg	2-pin connector
T2ge	2-pin connector
T4a	4-pin connector, near starter
T6bc	6-pin connector
T16h	16-pin connector, brown
T16i	16-pin connector, black
T20c	20-pin connector
V158	Left temperature flap control motor
371	Earth connection 6, in main wiring harness
673	Earth point 3, on front of left longitudinal member
B592	Connection 1, in Climatronic wiring harness
B593	Connection 2, in Climatronic wiring harness

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Climatronic control unit, defroster flap control motor, right temperature flap control motor

G135	Defroster flap control motor potentiometer
G221	Potentiometer for right temperature flap control motor
J255	Climatronic control unit
T6az	6-pin connector
T6bb	6-pin connector
T16h	16-pin connector, brown
T16i	16-pin connector, black
V107	Defroster flap control motor
V159	Right temperature flap control motor
B592	Connection 1, in Climatronic wiring harness
B593	Connection 2, in Climatronic wiring harness

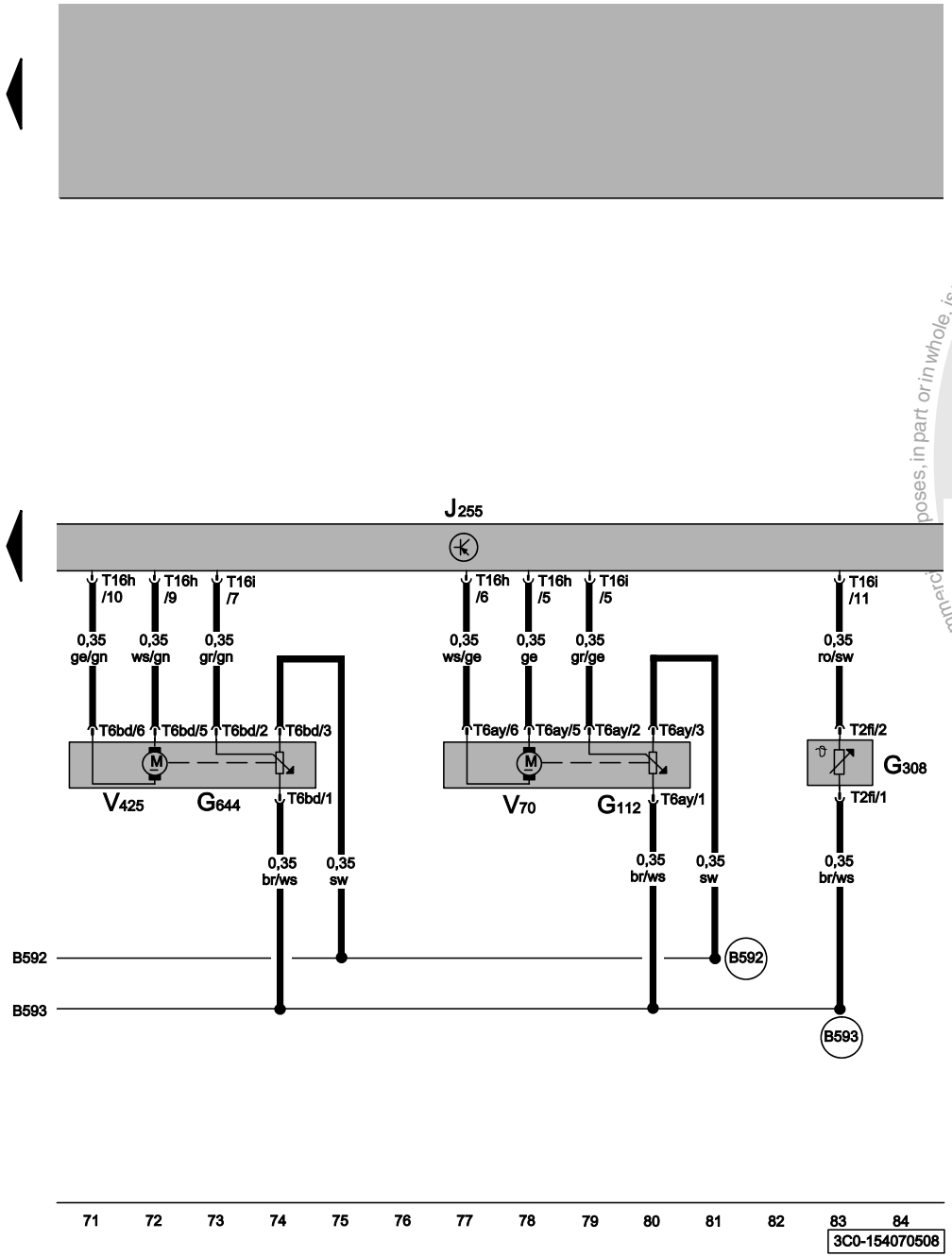


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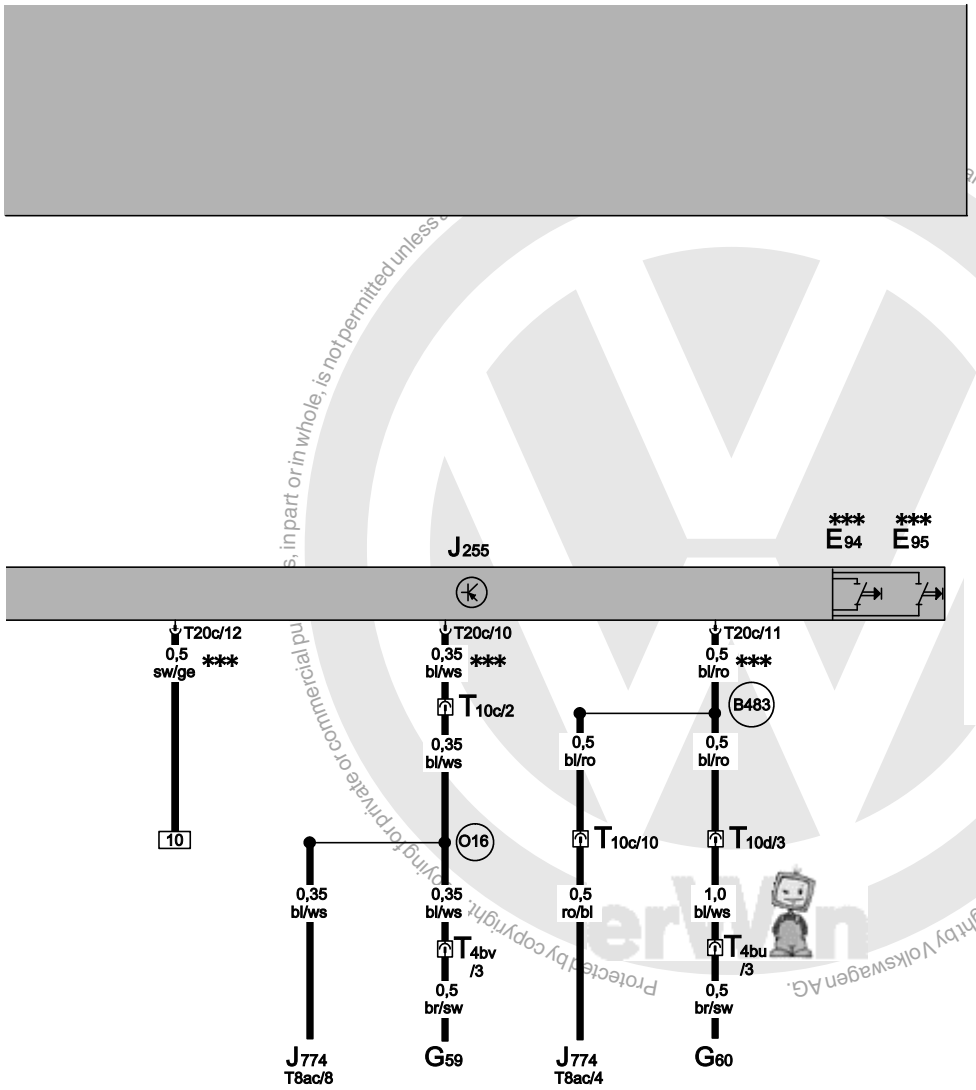
Climatronic control unit, centre flap control motor, evaporator temperature sender, potentiometer for fresh air/air flow flap control motor, fresh air/air flow flap control motor

G112	Potentiometer for centre flap servomotor
G308	Evaporator temperature sensor
G644	Potentiometer for fresh air/recirculated air flow flap control motor
J255	Climatronic control unit
T2fi	2-pin connector
T6ay	6-pin connector, blue
T6bd	6-pin connector
T16h	16-pin connector
T16i	16-pin connector
V70	Centre flap control motor
V425	Fresh air/recirculated air, air flow flap control motor
B592	Connection 1, in Climatronic wiring harness
B593	Connection 2, in Climatronic wiring harness



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Climatronic control unit, heated front seats control unit, heated driver seat regulator, heated front passenger seat regulator

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
G59	Driver seat temperature sensor
G60	Front passenger seat temperature sensor
J255	Climatronic control unit
J774	Control unit for heated front seats
T4bu	4-pin connector, black, under front passenger seat seat
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
T20c	20-pin connector
B483	Connection 19, in main wiring harness
O16	Connection 5, in seat heating wiring harness
***	Only with heated seat

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Trailer coupling

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

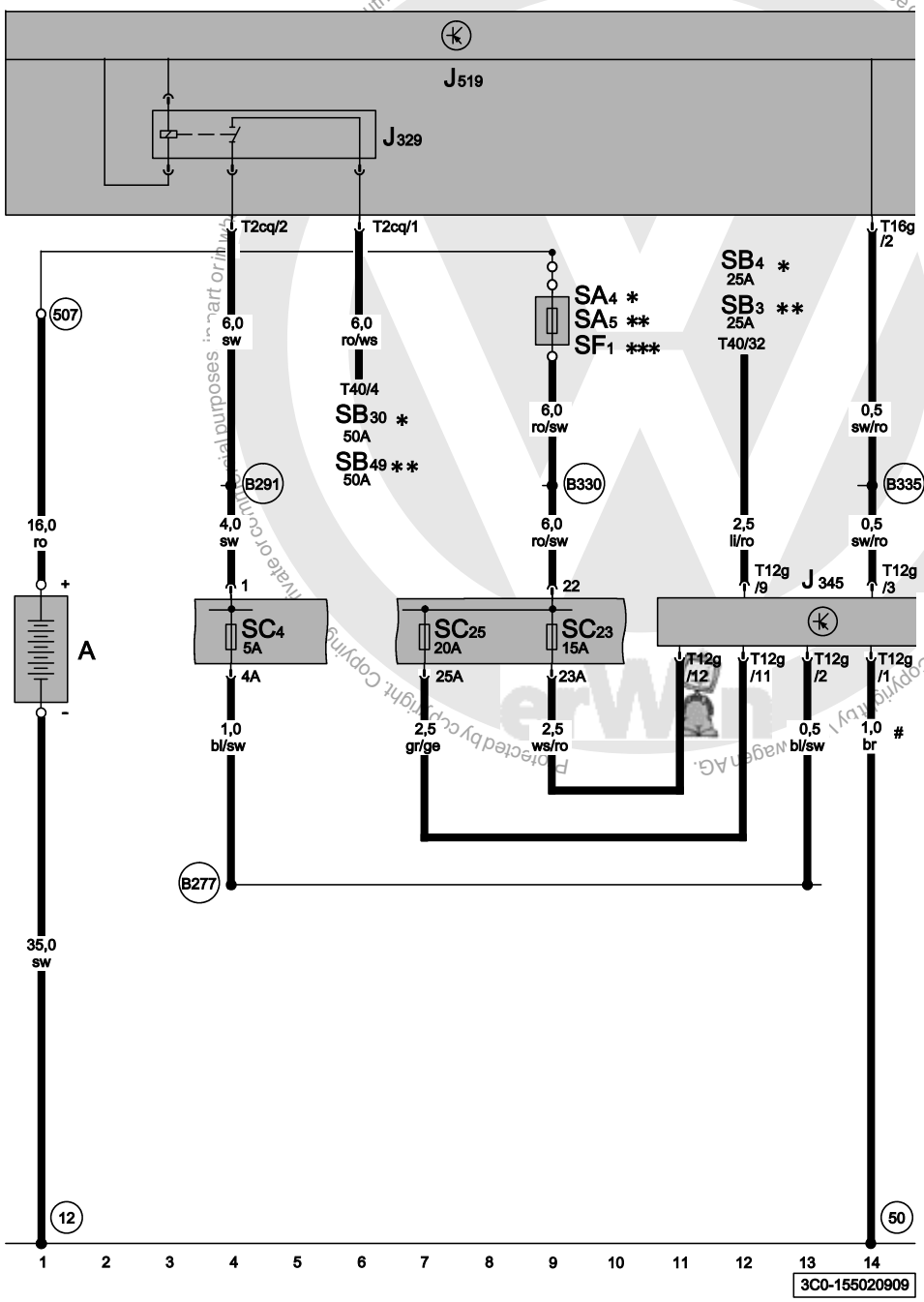
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

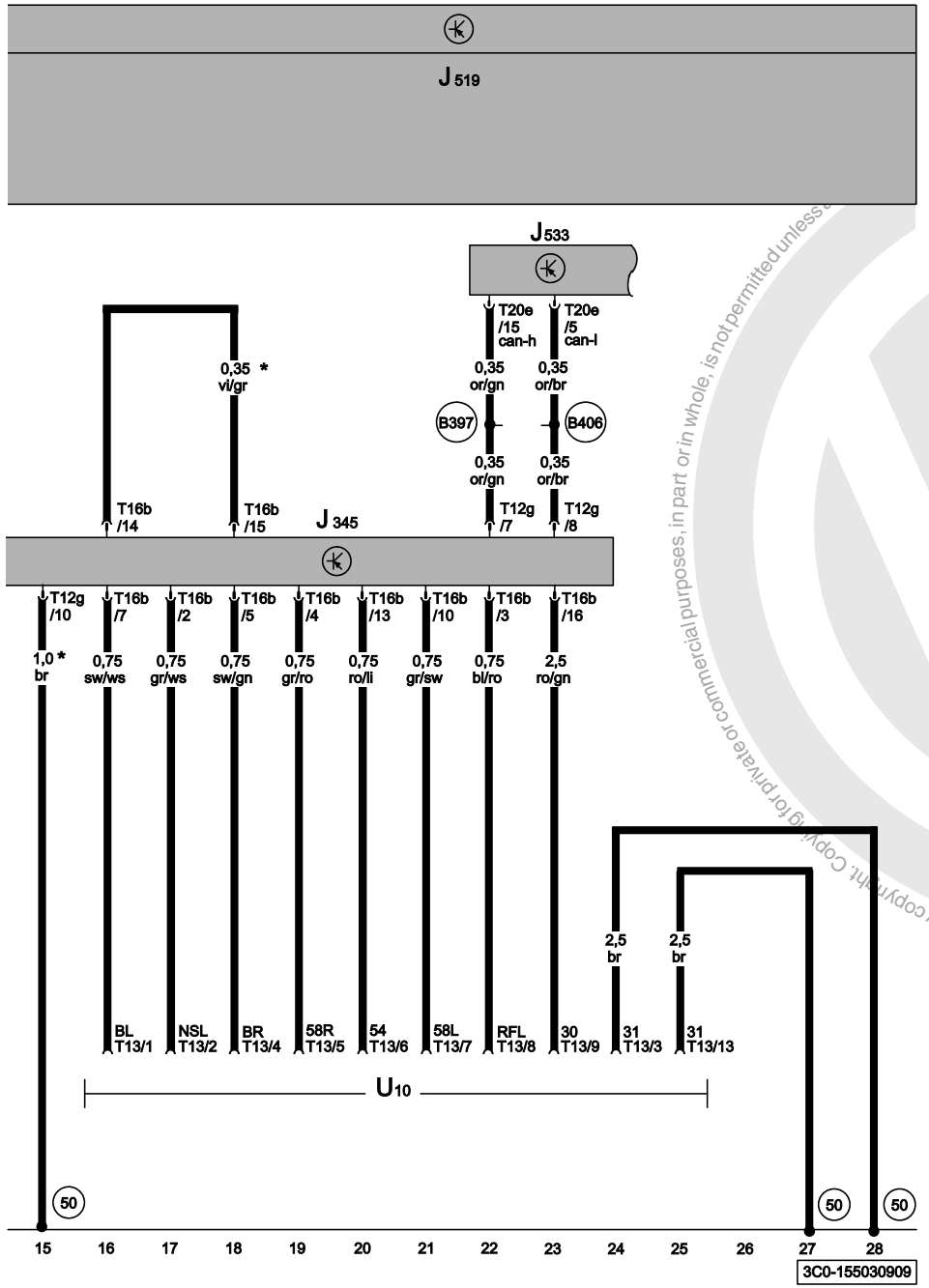
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Trailer detector control unit, fuses, onboard supply control unit, terminal 15 voltage supply relay

A	Battery
J329	Terminal 15 voltage supply relay
J345	Trailer detector control unit
J519	Onboard supply control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SB3	Fuse 3 on fuse holder B
SB4	Fuse 4 on fuse holder B
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC4	Fuse 4 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC25	Fuse 25 on fuse holder C
SF1	Fuse 1 on fuse holder F
T2cq	2-pin connector
T12g	12-pin connector, red
T16g	16-pin connector, black
T40	40-pin connector
12	Earth point, on left in engine compartment
50	Earth point, on left in luggage compartment
507	Threaded connection (30), on battery fuse holder
B277	Connection 1 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B335	Connection 1 (54), in main wiring harness
*	Fuses in E-box low
**	Fuses in E-box high
***	Only models with rear battery
#	Applicable to October 2009



Trailer detector control unit, data bus diagnostic interface, electric socket for trailer coupling

J345	Trailer detector control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
T12g	12-pin connector
T16b	16-pin connector
T13	13-pin connector
T20e	20-pin connector
U10	Trailer socket
50	Earth point, on left in luggage compartment
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Applicable from November 2009

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Rear lid, servo close (Variant)

⇒ **Power latching system**

From May 2008

Notes:

For information concerning

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- Multi-pin connectors
- Control units and relays
- Earth connections

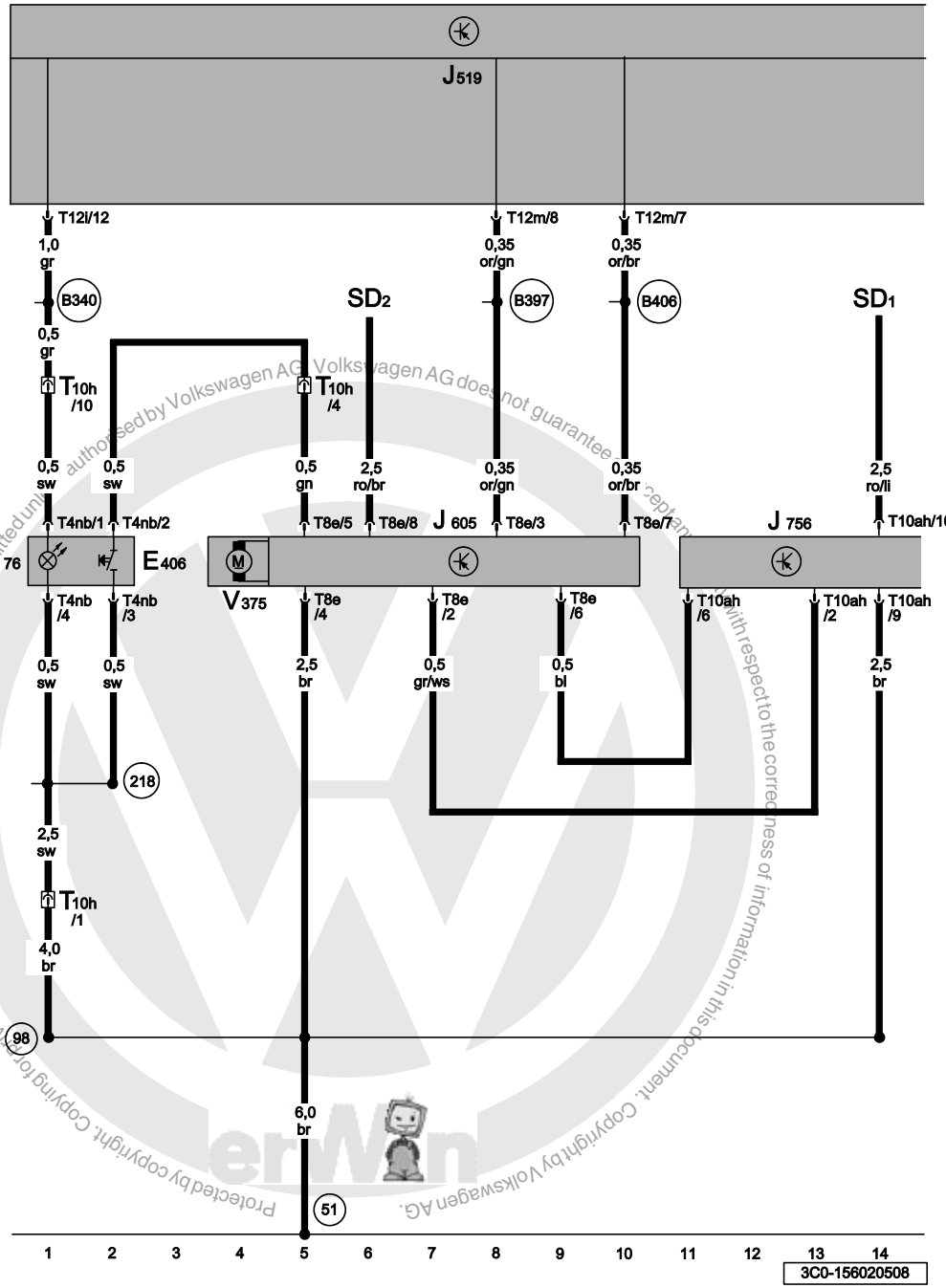
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

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Onboard supply control unit, button to close rear lid in luggage compartment, rear lid control unit, rear lid control unit 2, motor in rear lid control unit

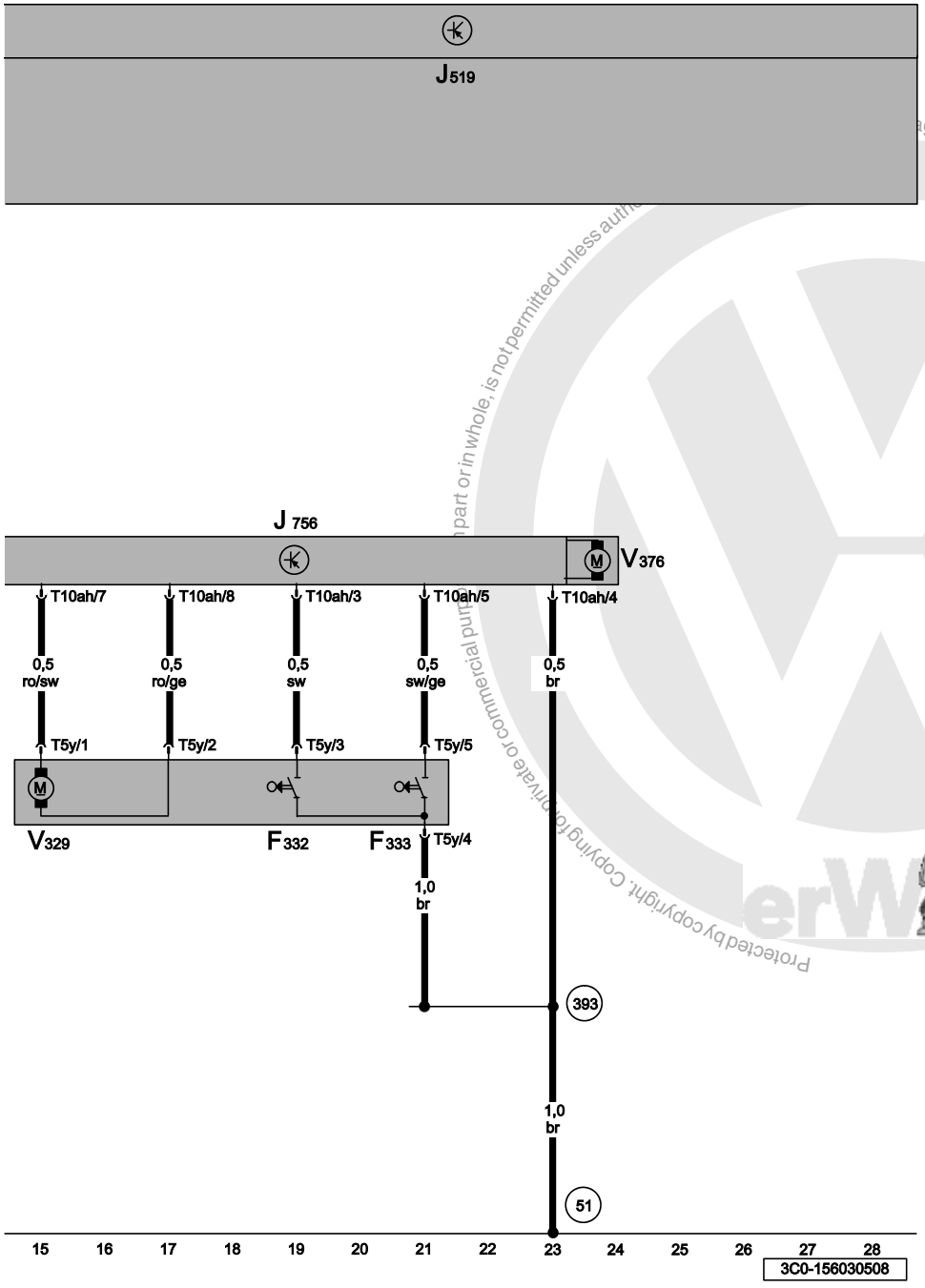
E406	Button to close rear lid in luggage compartment
J519	Onboard supply control unit
J605	Rear lid control unit
J756	Rear lid control unit 2
L76	Button illumination bulb
SD1	Fuse 1 on fuse holder D
SD2	Fuse 2 on fuse holder D
T4nb	4-pin connector
T8e	8-pin connector
T10h	10-pin connector, coupling point on right of rear lid
T10ah	10-pin connector
T12i	12-pin connector
T12m	12-pin connector, black
V375	Motor in rear lid control unit
51	Earth point, on right in luggage compartment
98	Earth connection, in rear lid wiring harness
218	Earth connection 1, in rear lid wiring harness
B340	Connection 1 (58d), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness

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erWin

Rear lid control unit 2, motor in rear lid control unit 2, power latching motor, power latching system limit switch

F332	Power latching system limit switch, luggage compartment unlocked
F333	Power latching system limit switch, luggage compartment locked
J519	Onboard supply control unit
J756	Rear lid control unit 2
T5y	5-pin connector, black
T10ah	10-pin connector
V329	Power latching motor
V376	Motor in rear lid control unit 2
51	Earth point, on right in luggage compartment
393	Earth connection 28, in main wiring harness



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Automatic Distance Control with Cruise Control System, Cruise Control System (CCS)

From May 2008

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections

⇒ List of Fitting Locations!

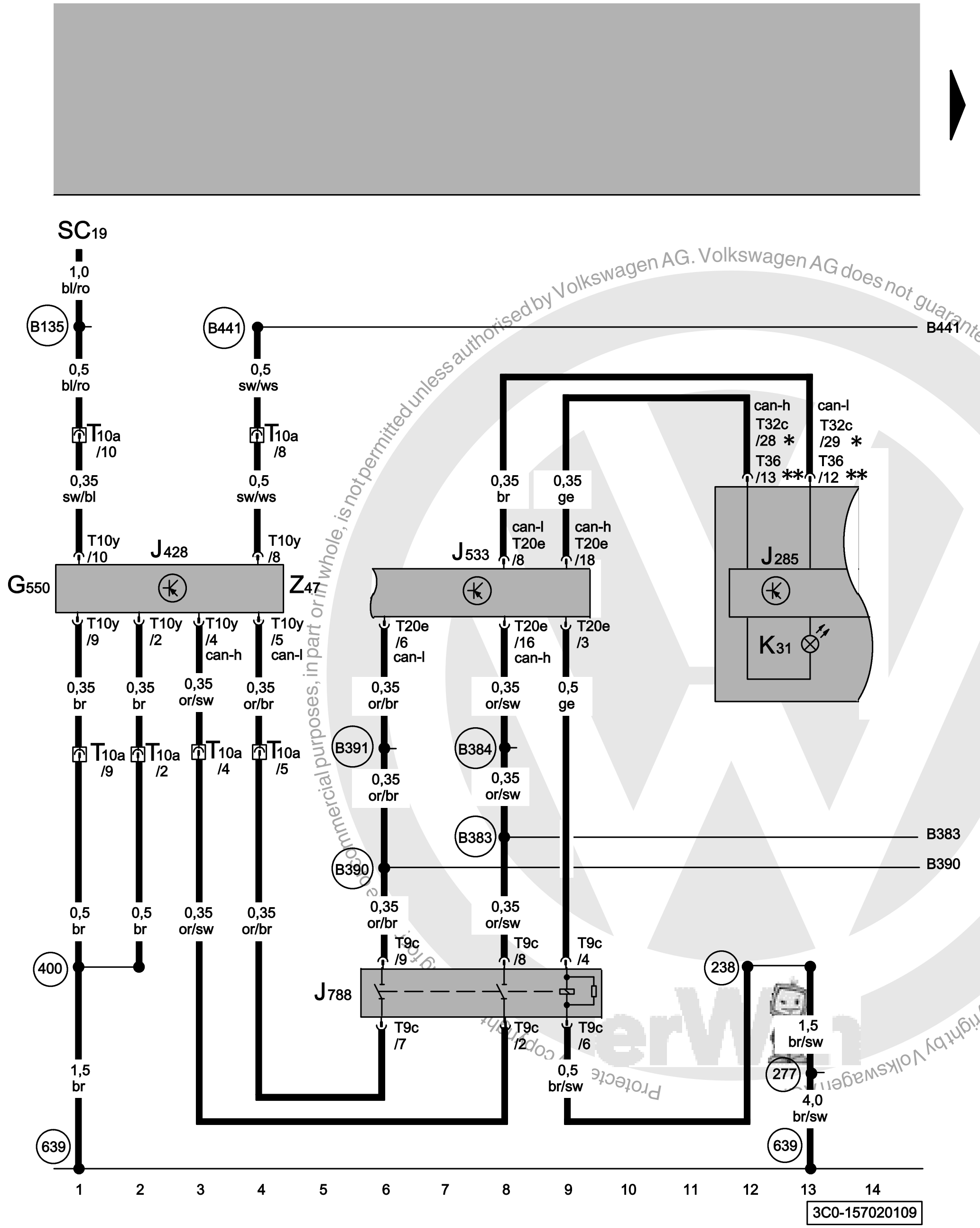
For information concerning

- Fault-finding programs

⇒ Guided fault finding

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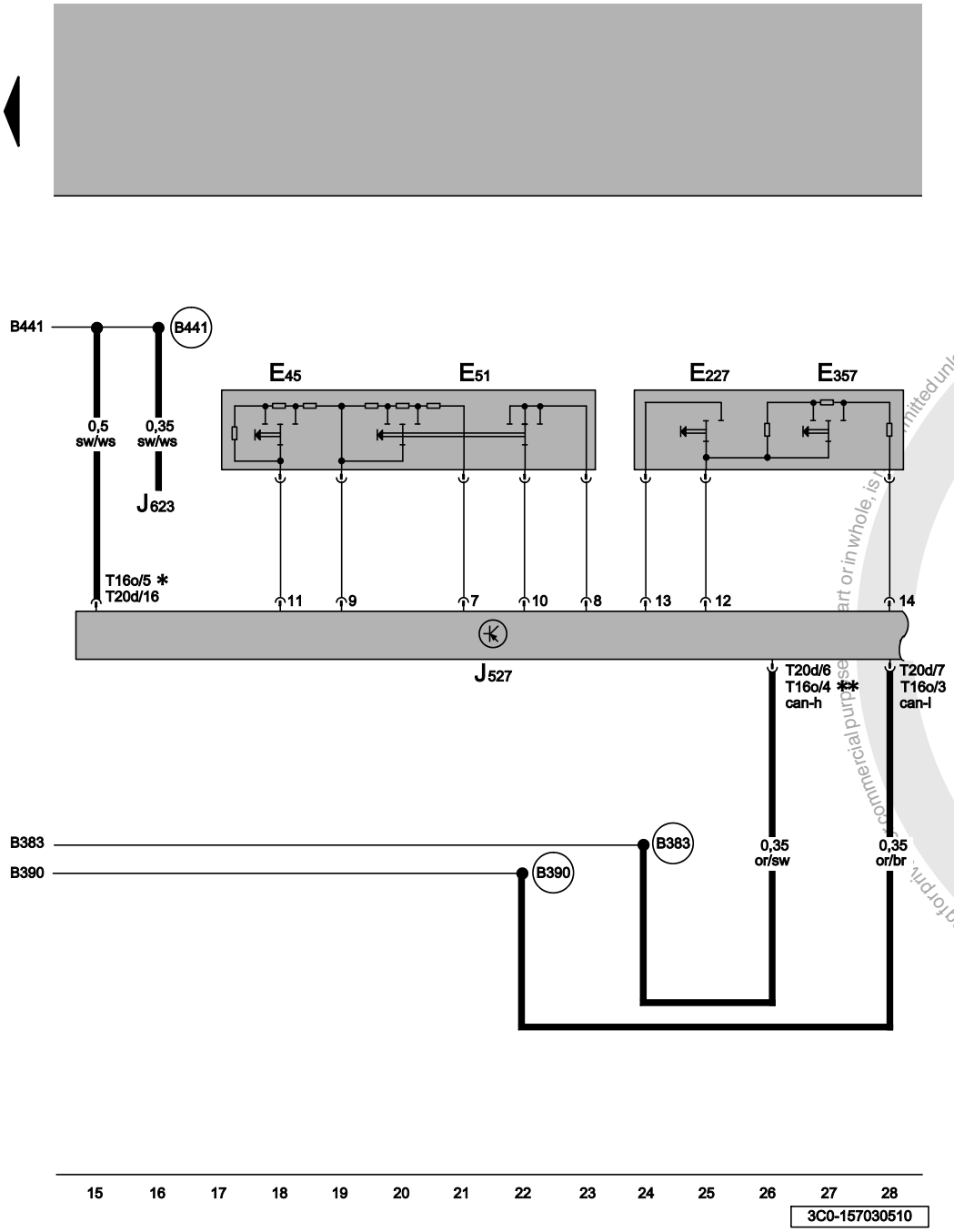
Distance Regulation Control Module, Powertrain CAN-Bus Cut-Off Relay, Sensor for Automatic Distance Control



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G550	Sensor for adaptive cruise control
J285	Control unit in dash panel insert
J428	Adaptive cruise control unit
J533	Data bus diagnostic interface
J788	Powertrain CAN bus isolation relay
K31	Cruise control system warning lamp
SC19	Fuse 19 on fuse holder C
T9c	9-pin connector
T10a	10-pin connector, coupling point on left of front bumper
T10y	10-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
Z47	Sensor heater for adaptive cruise control system
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
400	Earth connection 35, in main wiring harness
639	Earth point, left A-pillar
B135	Connection 1 (15a), in interior wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	applicable from November 2008
**	applicable up to October 2008

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Steering column electronics control unit, adaptive cruise control regulation button, cruise control system switch

E45	Cruise control system switch
E51	Cruise control system master switch
E227	Cruise control system (CCS) SET button
E357	Adaptive cruise control button
J527	Steering column electronics control unit
J623	Engine control unit
T16o	16-pin connector
T20d	20-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	From November 2009

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2.0 l/100 kW - turbo diesel with common rail, engine code CBAA

From May 2008

2.0 l/103 kW - turbo diesel with common rail, engine code CBAB

2.0 l/125 kW - turbo diesel with common rail, engine code CBBB

2.0 l/125 kW - turbo diesel with common rail, engine code CBBB

From May 2008

Notes:

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- Multi-pin connectors
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- Earth connections

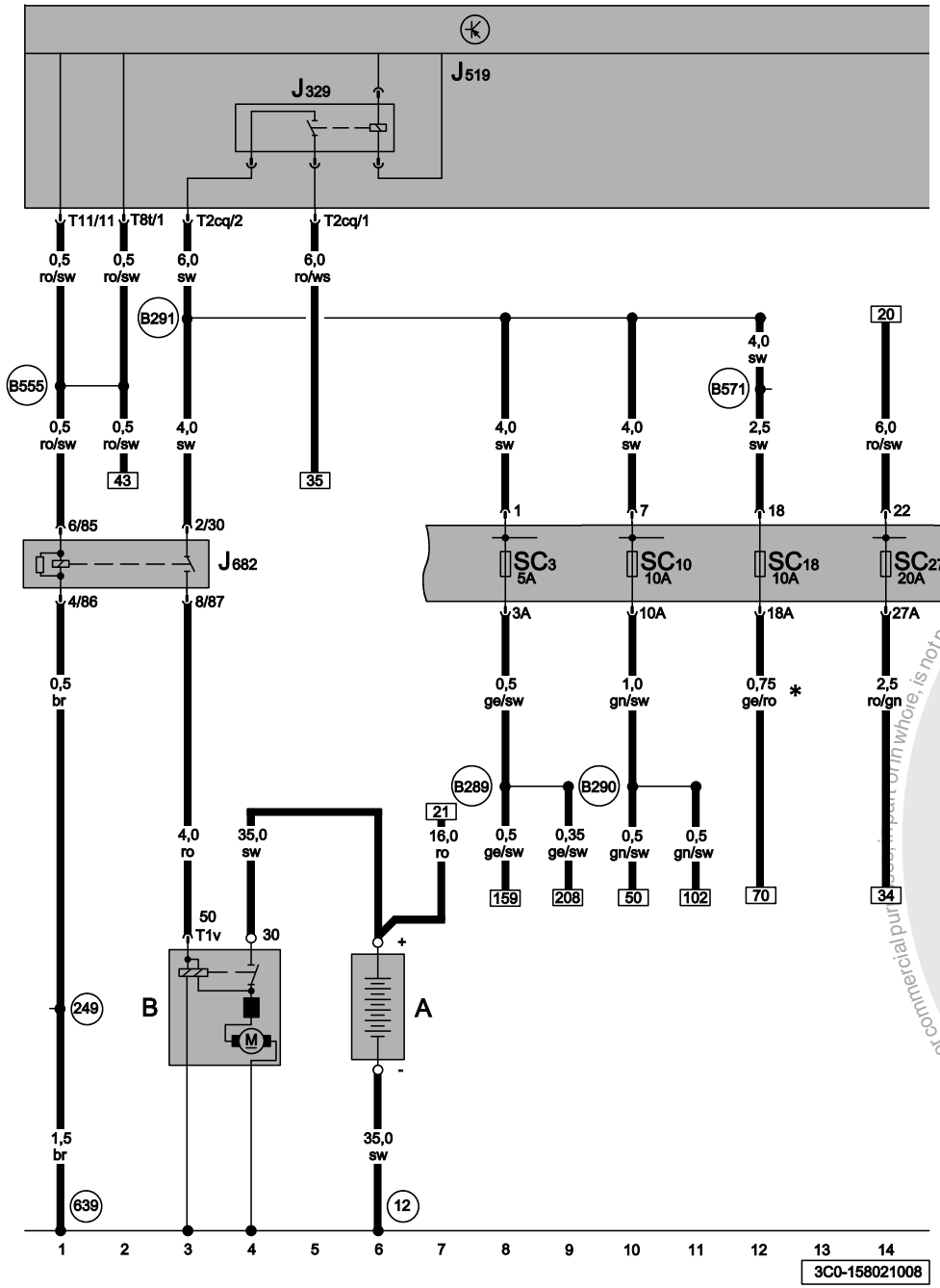
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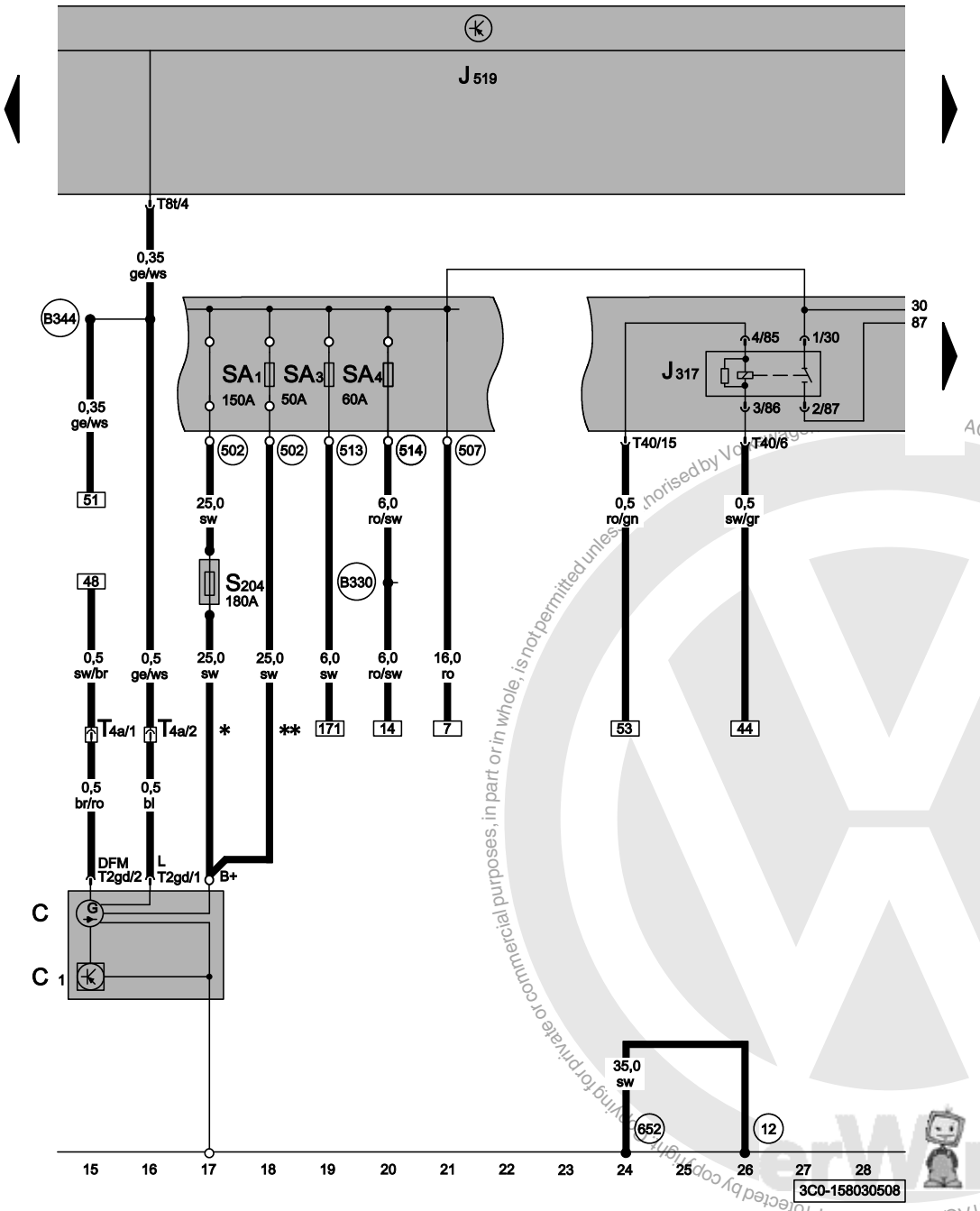


Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, on relay carrier on left under dash panel
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models for cold countries

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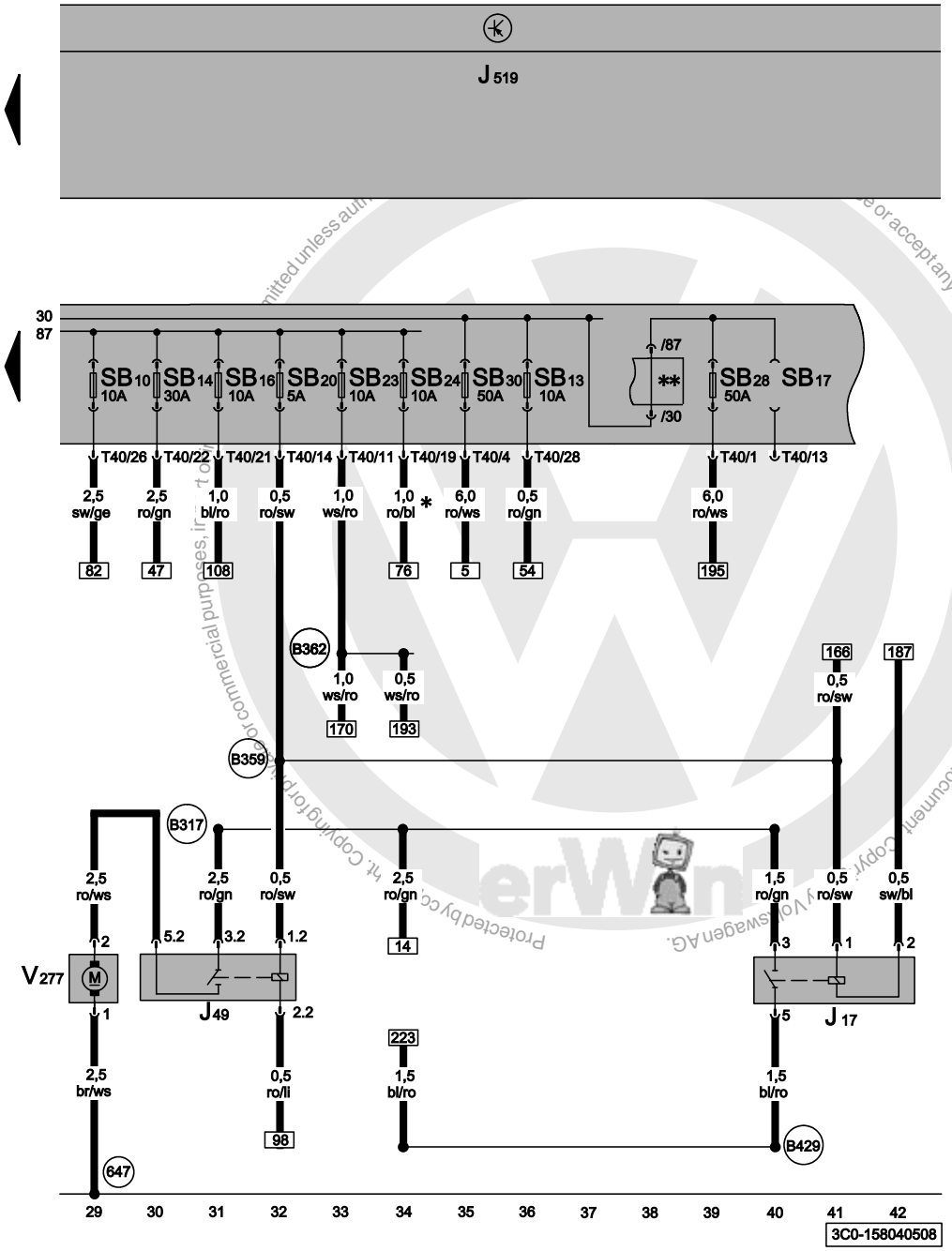


Alternator, terminal 30 voltage supply relay, fuses

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
12	Earth point, on left in engine compartment
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
652	Earth point, engine and gearbox earth
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 180 A alternator
**	Only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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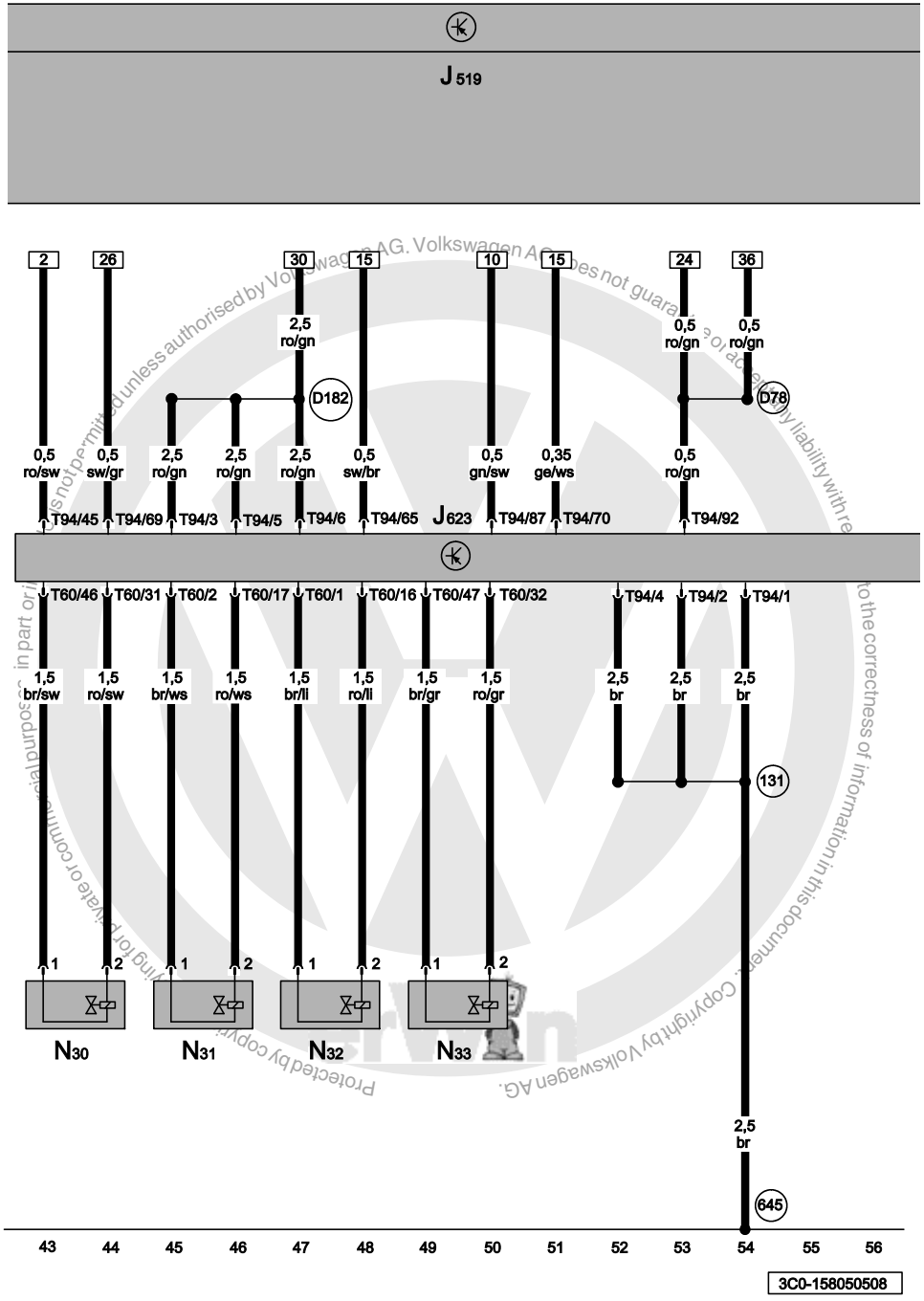


Fuel pump relay, electric fuel pump 2 relay, fuel pump 2, fuses

J17	Fuel pump relay, on relay carrier on left under dash panel (449)
J49	Electric fuel pump 2 relay, on relay carrier on left under dash panel (449)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T40	40-pin connector
V277	Fuel pump 2
647	Earth point 3, on bulkhead
B317	Connection 3 (30a), in main wiring harness
B359	Connection 10 (87a), in main wiring harness
B362	Connection 13 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Depends on equipment
**	Push-in bridge on relay slot R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Engine control unit, injectors for cylinders 1-4

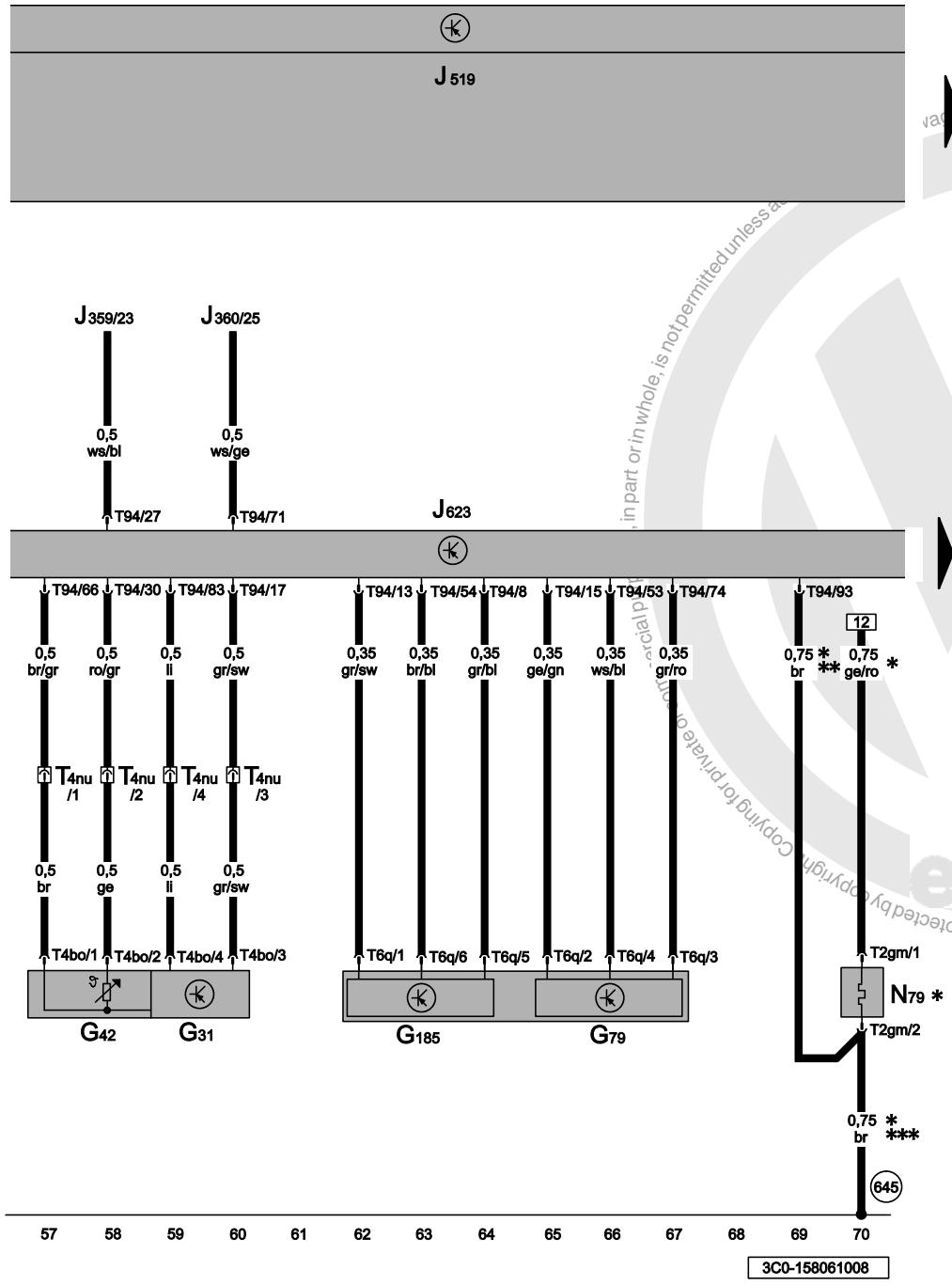
J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T60	60-pin connector
T94	94-pin connector
131	Earth connection 2, in engine compartment wiring harness
645	Earth point 1, on bulkhead
D78	Positive connection 1 (30a), in engine compartment wiring harness
D182	Connection 3 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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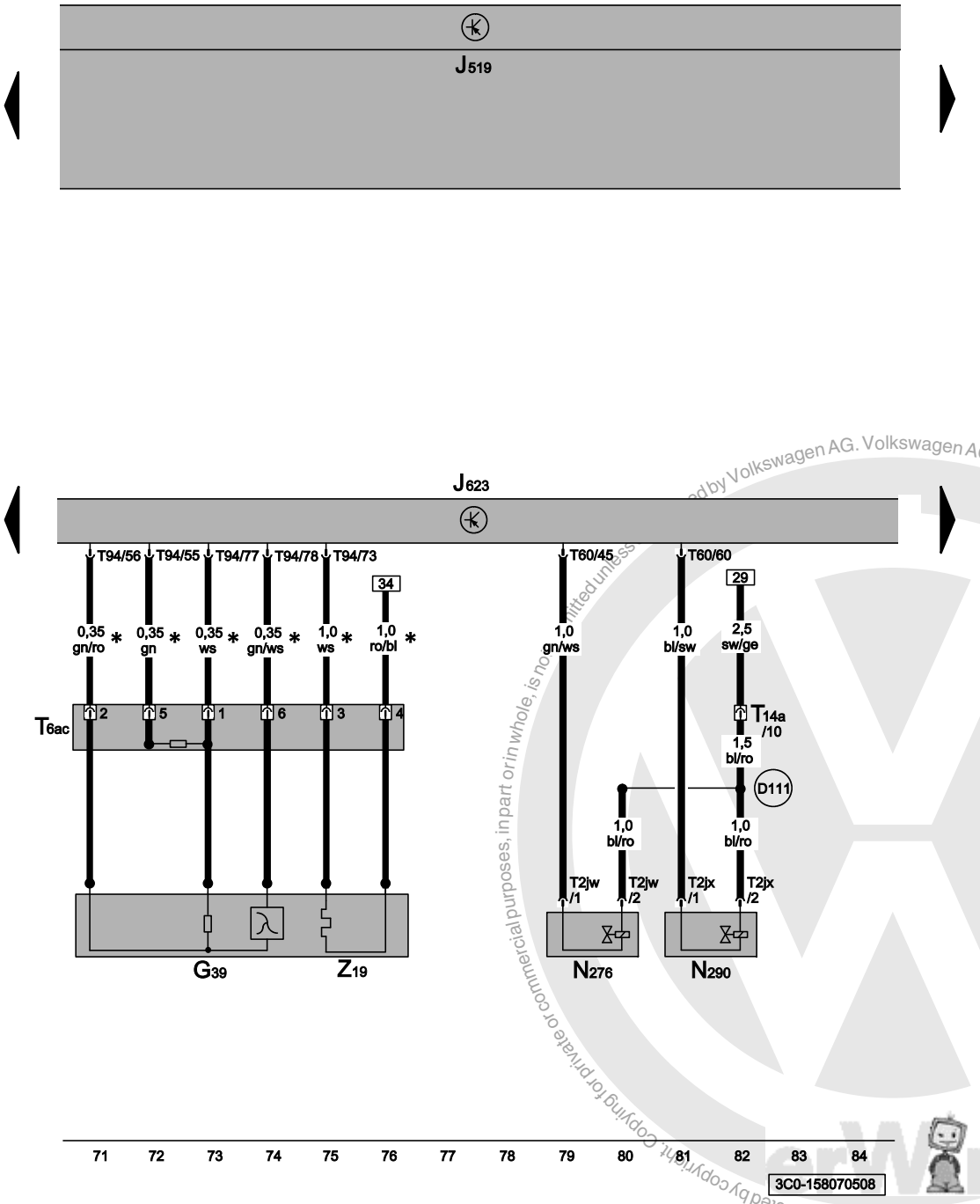
Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender, crankcase breather heater element

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J359	Low heat output relay
J360	High heat output relay
J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
T2gm	2-pin connector, black
T4bo	4-pin connector
T4nu	4-pin connector, black
T6q	6-pin connector
T94	94-pin connector
645	Earth point 1, on bulkhead
*	Only models for cold countries
**	Applicable from May 2009
***	Applicable to April 2009



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Engine control unit, Lambda probe, fuel pressure regulating valve, fuel metering valve

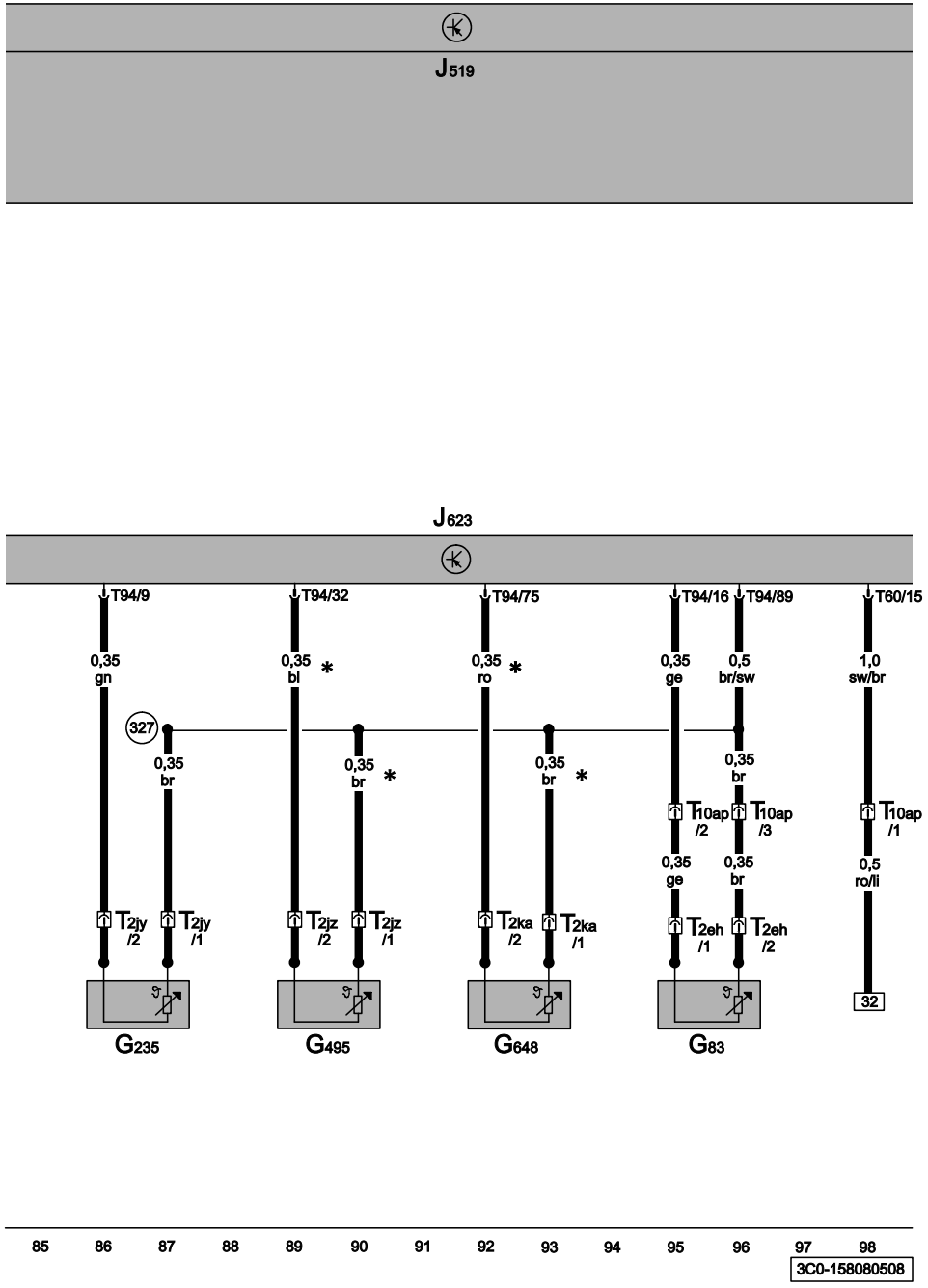
G39	Lambda probe
J519	Onboard supply control unit
J623	Engine control unit
N276	Fuel pressure regulating valve
N290	Fuel metering valve
T2jw	2-pin connector
T2jx	2-pin connector
T6ac	6-pin connector, black, coupling point for Lambda probe
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
Z19	Lambda probe heater
(D111)	Connection 9, in engine compartment wiring harness
*	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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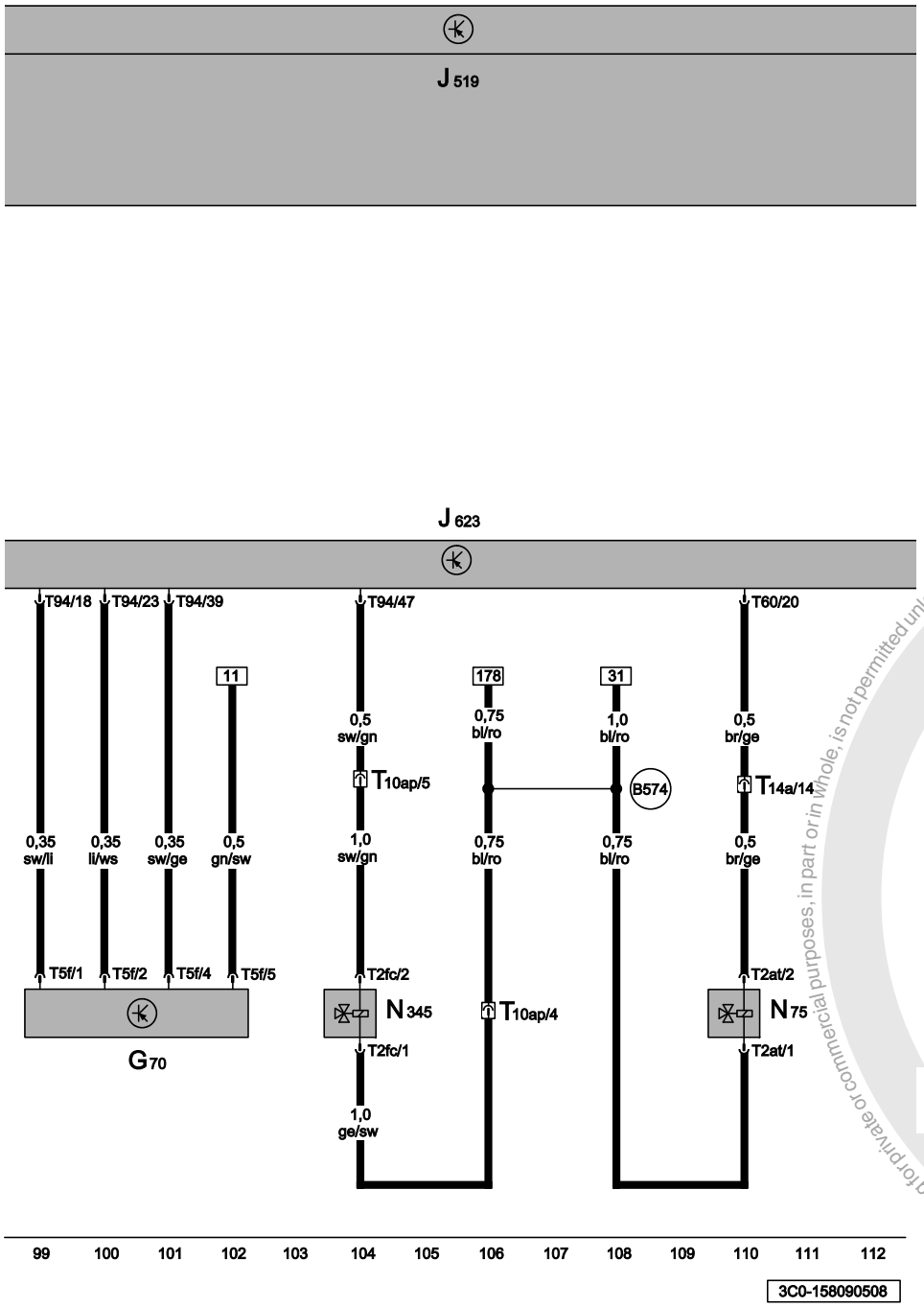
Engine control unit, exhaust temperature sender, radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
G235	Exhaust temperature sender 1
G495	Exhaust temperature sender 3
G648	Exhaust temperature sender 4
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
T2eh	2-pin connector
T2jy	2-pin connector, black
T2jz	2-pin connector, brown
T2ka	2-pin connector, brown
T10ap	10-pin connector, near left headlight
T60	60-pin connector
T94	94-pin connector
327	Earth connection (sender earth), in engine compartment wiring harness
*	Depends on equipment



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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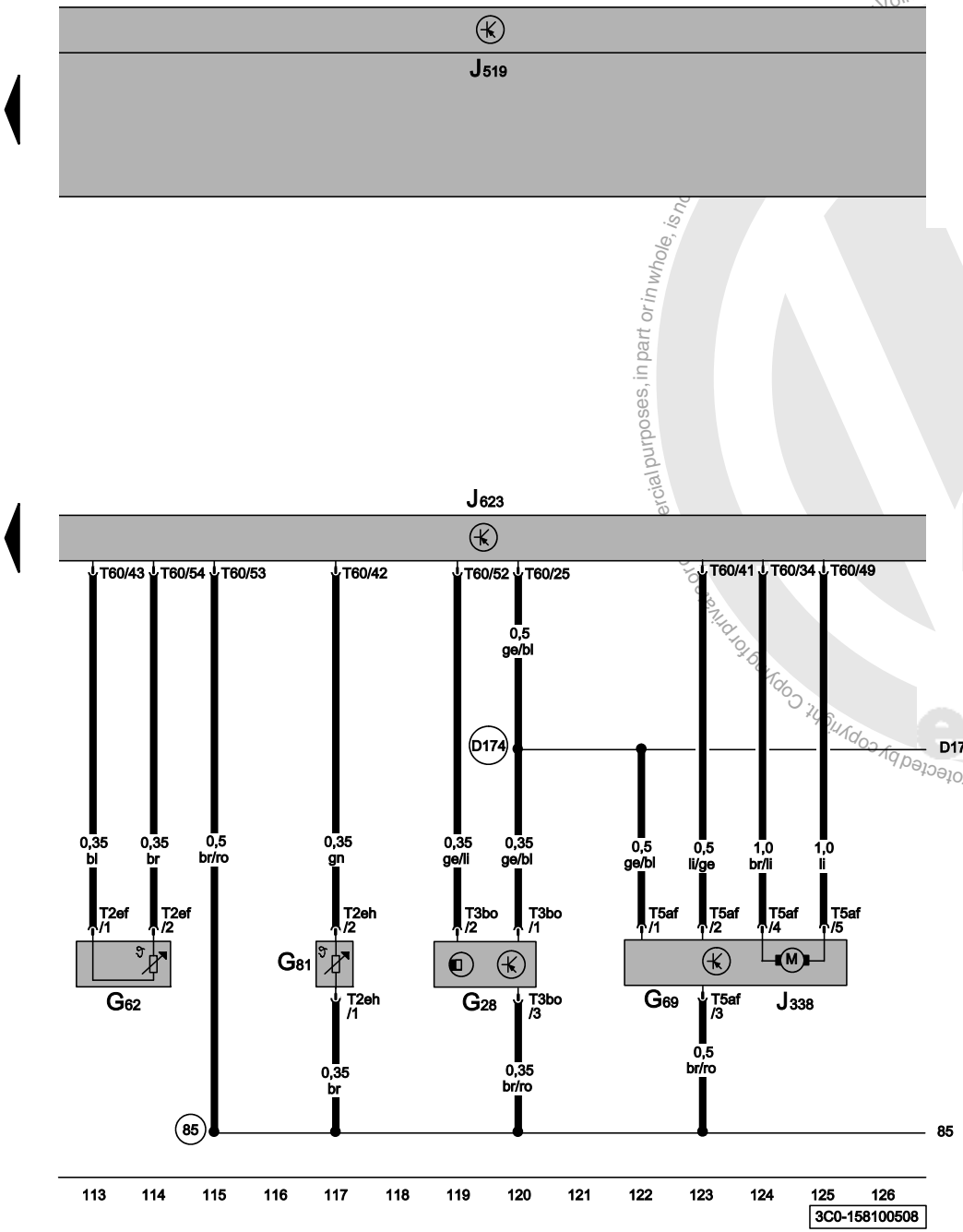


Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler changeover valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler changeover valve
T2at	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T10ap	10-pin connector, near left headlight
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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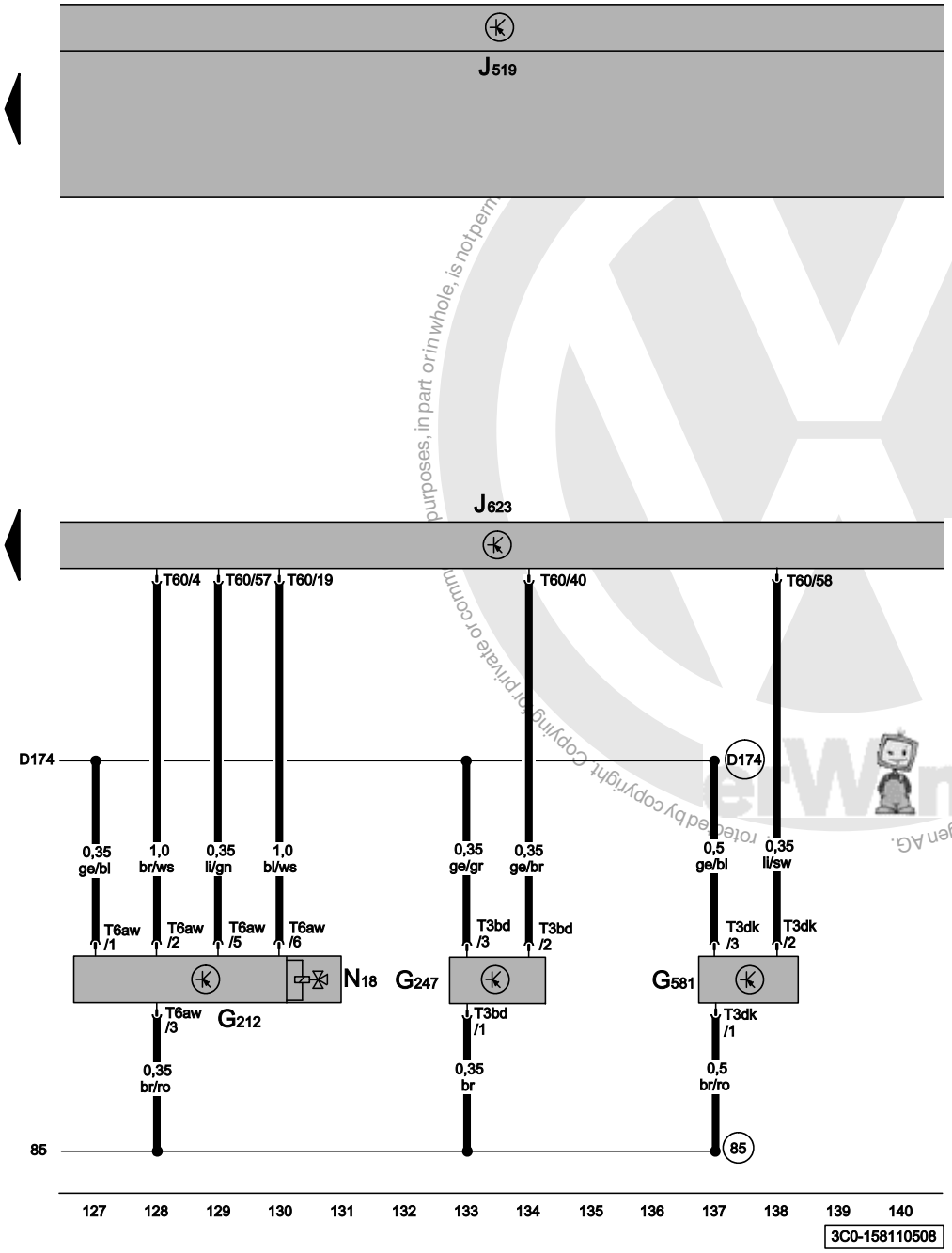


Engine control unit, throttle valve module, throttle valve potentiometer, fuel temperature sender, coolant temperature sender, engine speed sender

G28	Engine speed sender
G62	Coolant temperature sender
G69	Throttle valve potentiometer
G81	Fuel temperature sender
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
T2ef	2-pin connector
T2eh	2-pin connector
T3bo	3-pin connector
T5af	5-pin connector
T60	60-pin connector
85	Earth connection 1, in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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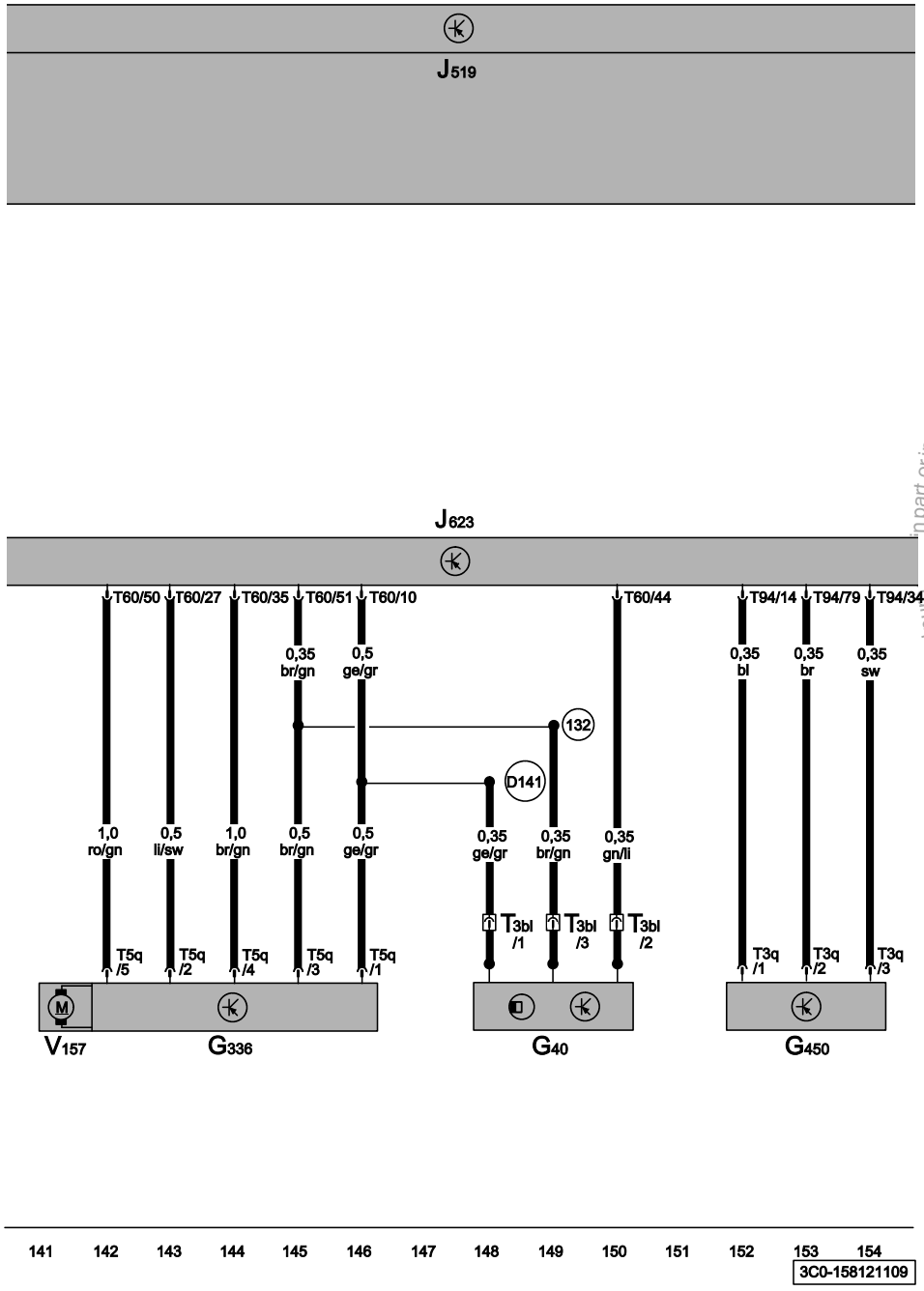


Engine control unit, exhaust gas recirculation valve, exhaust gas recirculation potentiometer, position sender for charge pressure positioner

G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
G581	Position sender for charge pressure positioner
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
N18	Exhaust gas recirculation valve
T3bd	3-pin connector
T3dk	3-pin connector
T6aw	6-pin connector
T60	60-pin connector
85	Earth connection 1, in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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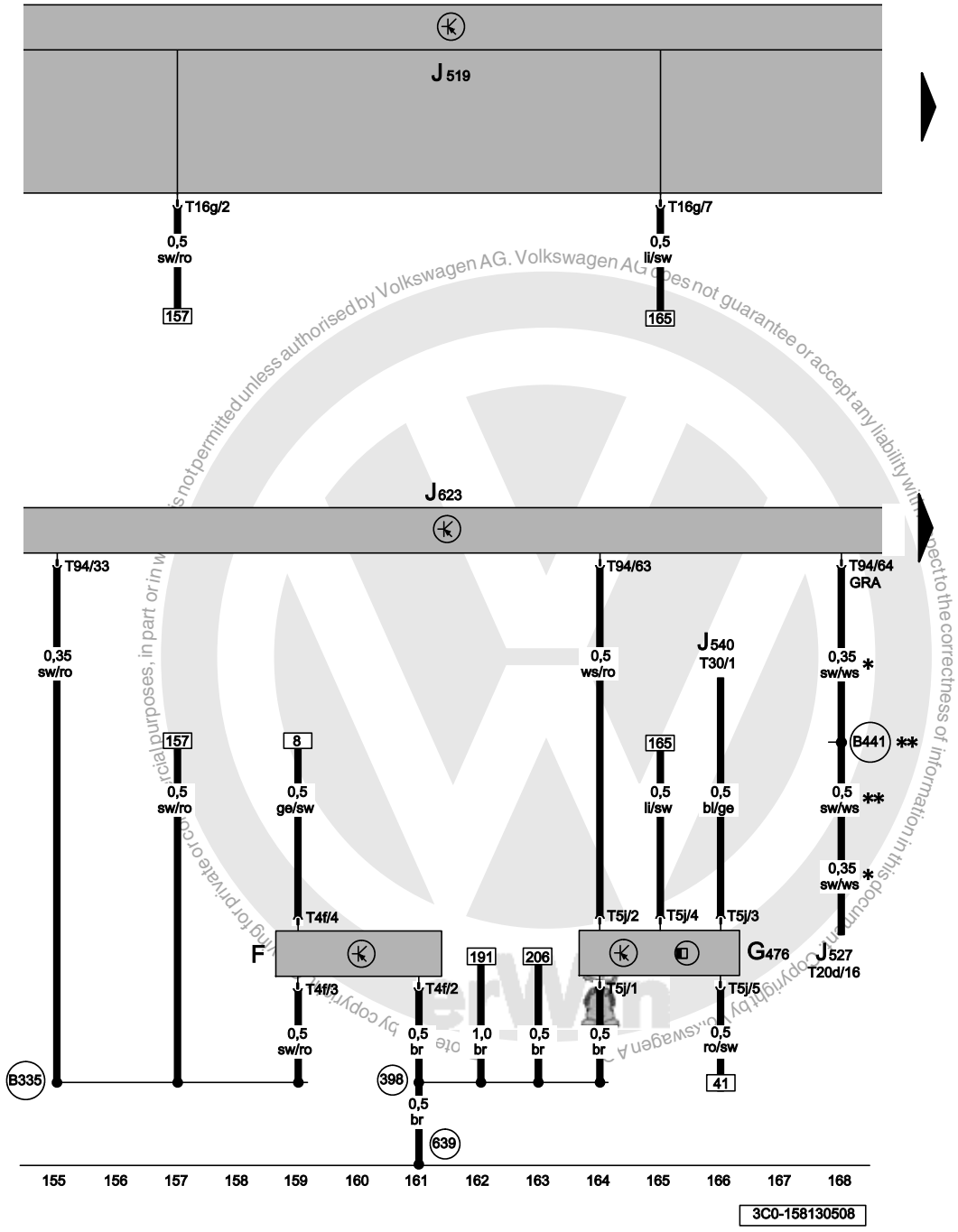


Engine control unit, intake manifold flap potentiometer, intake manifold flap motor, Hall sender, exhaust gas pressure sensor 1

G40	Hall sender
G336	Intake manifold flap potentiometer
G450	Exhaust gas pressure sensor 1
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
T3q	3-pin connector
T3bl	3-pin connector, grey
T5q	5-pin connector
T60	60-pin connector
T94	94-pin connector
V157	Intake manifold flap motor
132	Earth connection 3, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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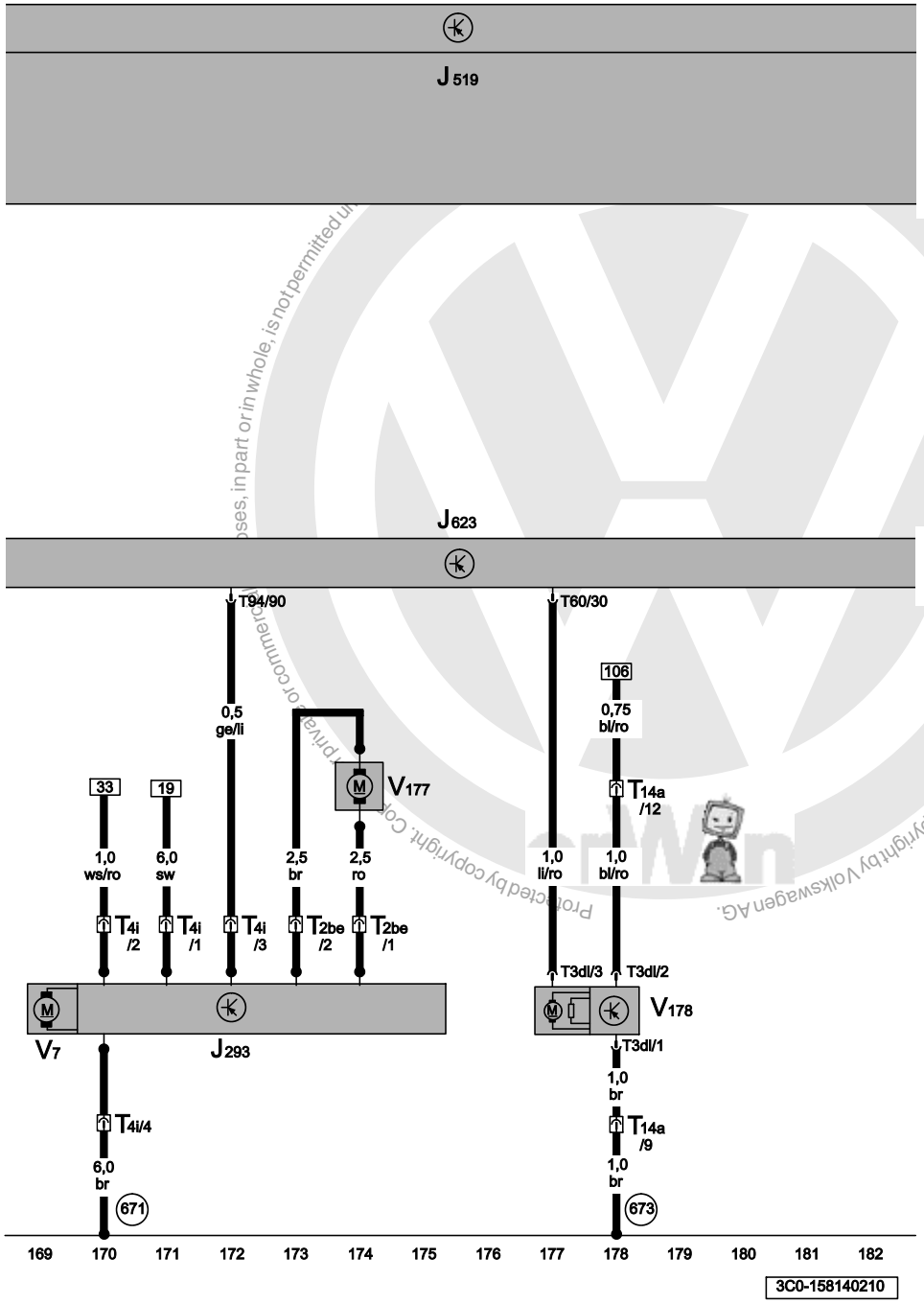


Engine control unit, clutch position sender, brake light switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector, black
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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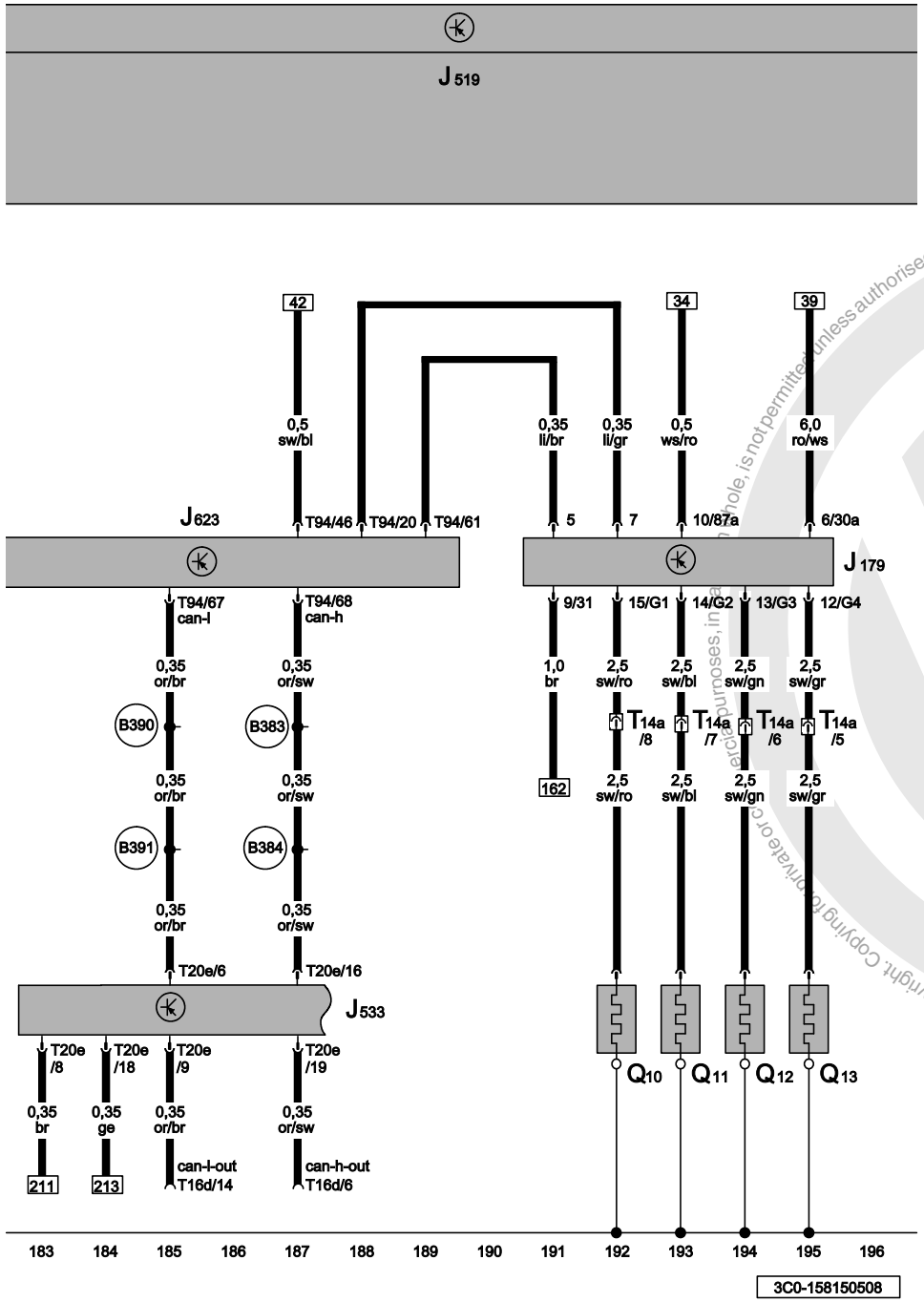


Engine control unit, radiator fan control unit, radiator fan, continued coolant circulation pump 2

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
T2be	2-pin connector, on lock carrier
T3dl	3-pin connector
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
V178	Coolant circulation pump 2
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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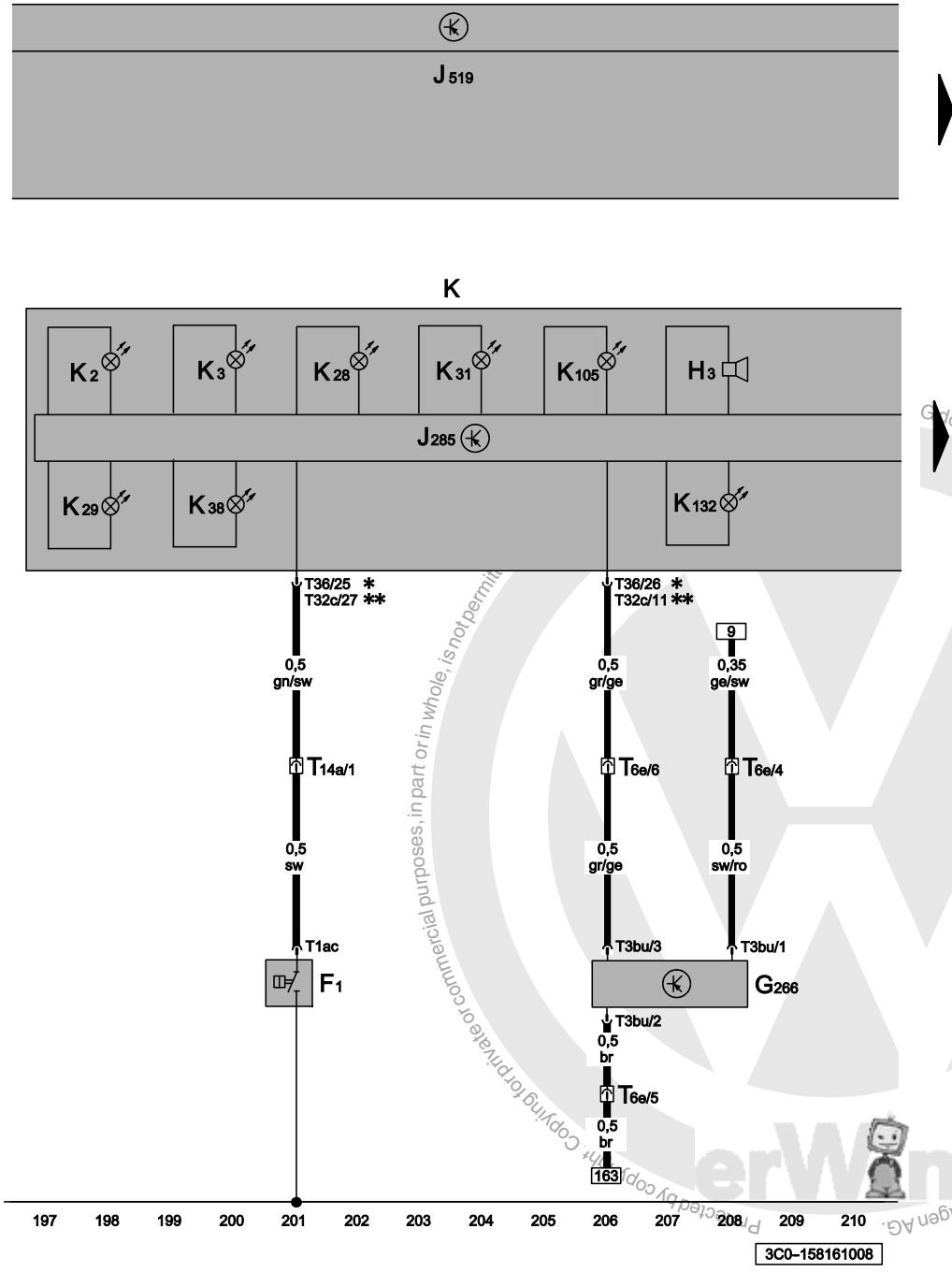


Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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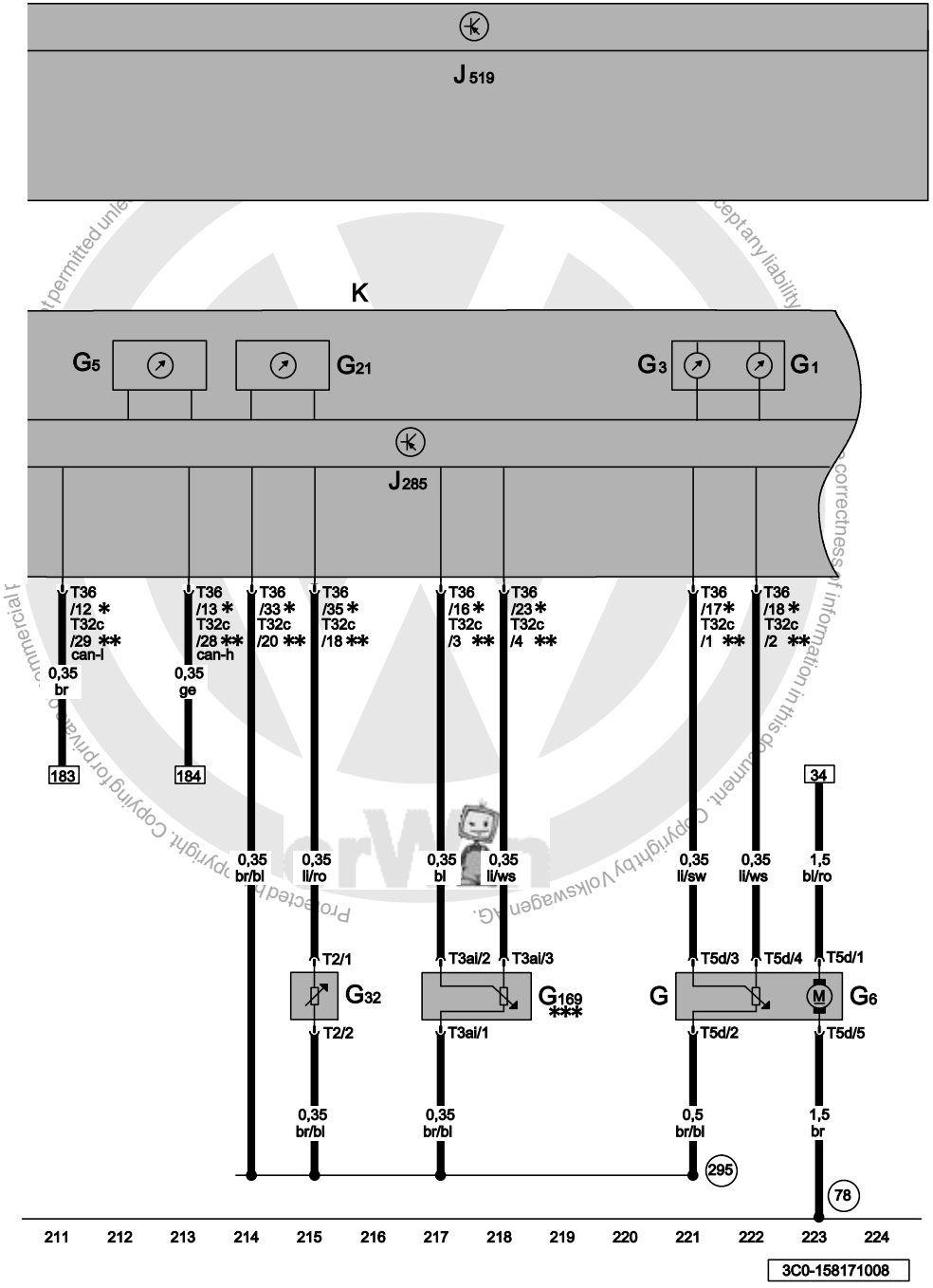


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
*	Applicable to October 2008
**	Applicable from November 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Dash panel insert, rev counter, speedometer, coolant temperature display, fuel system pressurisation pump, fuel gauge, fuel gauge sender, coolant temperature display, fuel gauge sender 2

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature display
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T32c	32-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Applicable to October 2008
**	Applicable from November 2008
***	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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1.4 l/90 kW - Motronic, engine code CAXA

from May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

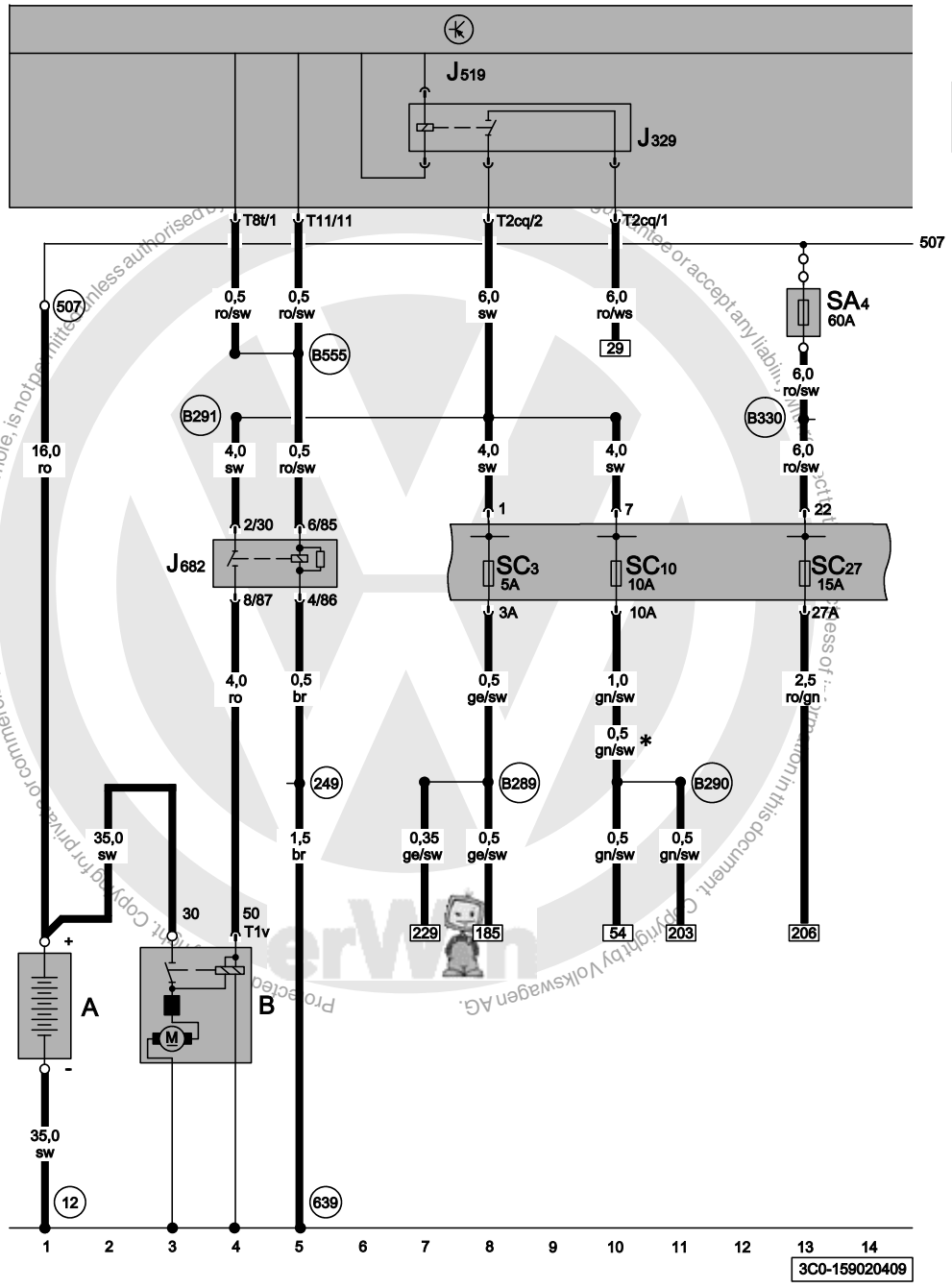
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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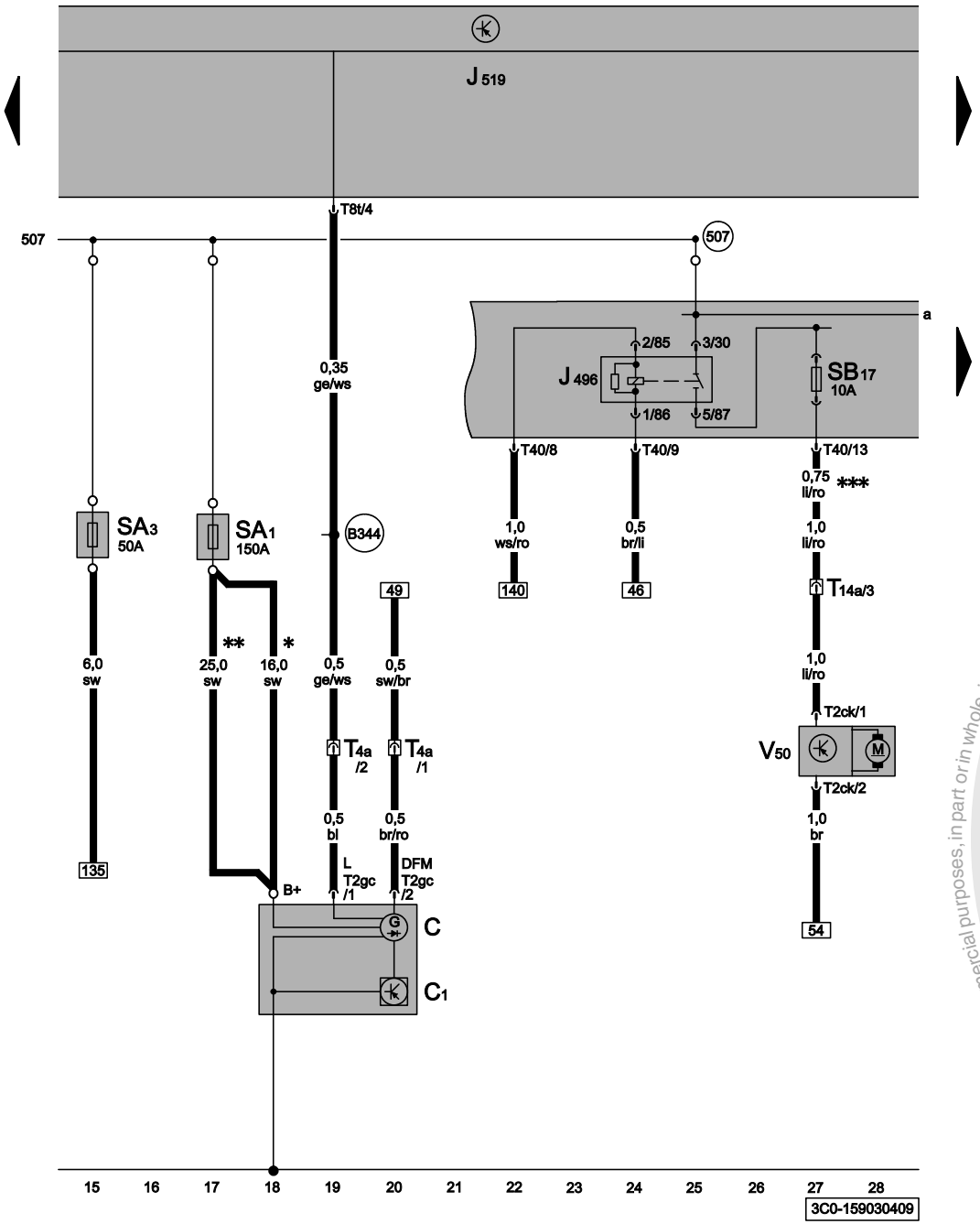


Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, (433)
SA4	Fuse 4 on fuse holder A
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
507	Threaded connection (30), on battery fuse holder
639	Earth point, left A-pillar
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B330	Connection 19 (30a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
*	Applicable from May 2009

ws	=	white
sw	=	black
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gn	=	green
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gr	=	grey
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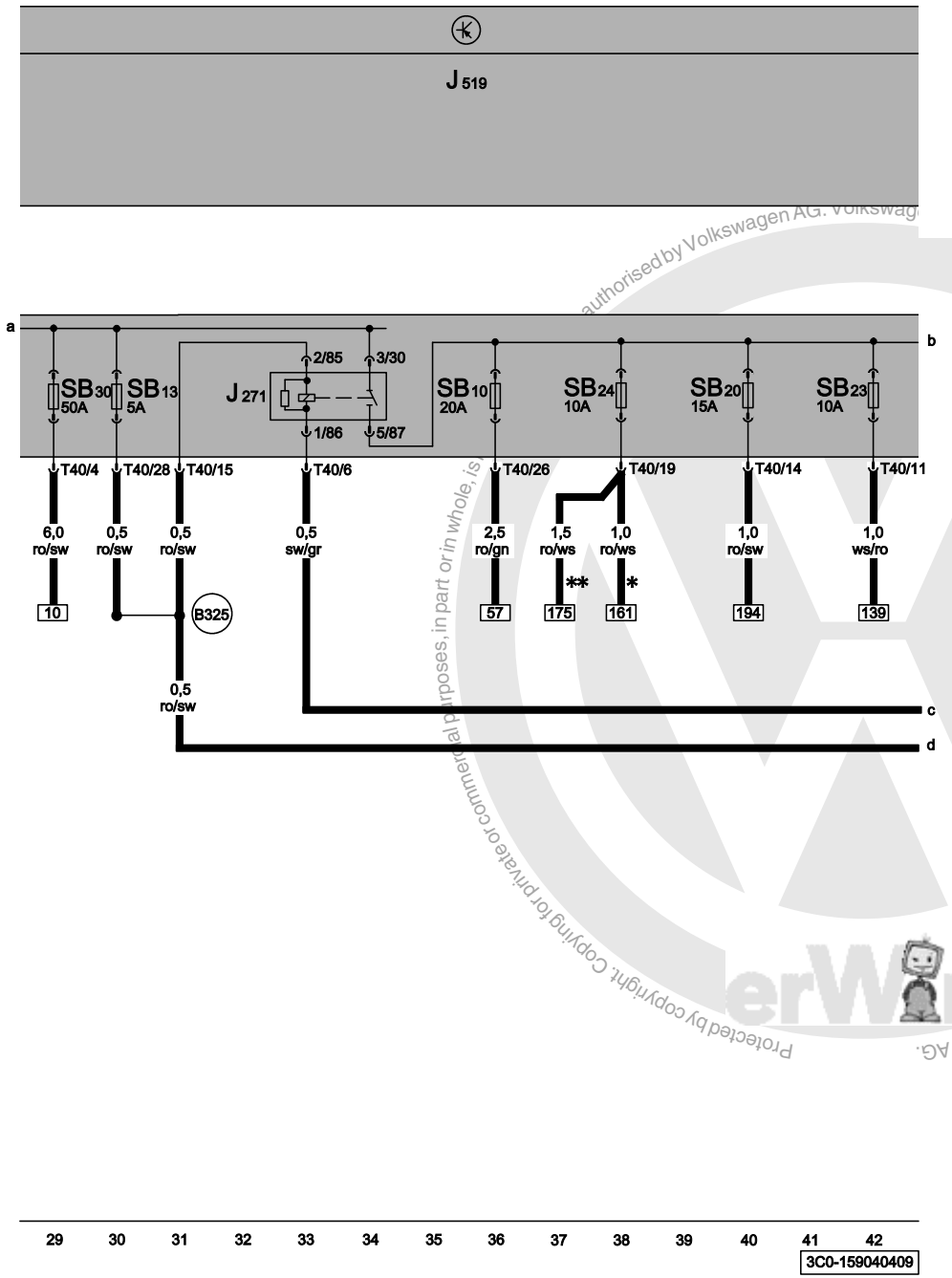


Alternator, additional coolant pump relay, coolant circulation pump, fuses

C	Alternator
C1	Voltage regulator
J496	Additional coolant pump relay (100)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB17	Fuse 17 on fuse holder B
T2ck	2-pin connector
T2gc	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40	40-pin connector
V50	Coolant circulation pump
507	Threaded connection (30), on battery fuse holder
B344	Connection 1 (61), in main wiring harness
*	Only models with 110 A alternator
**	Only models with 140 A alternator
***	Applicable from May 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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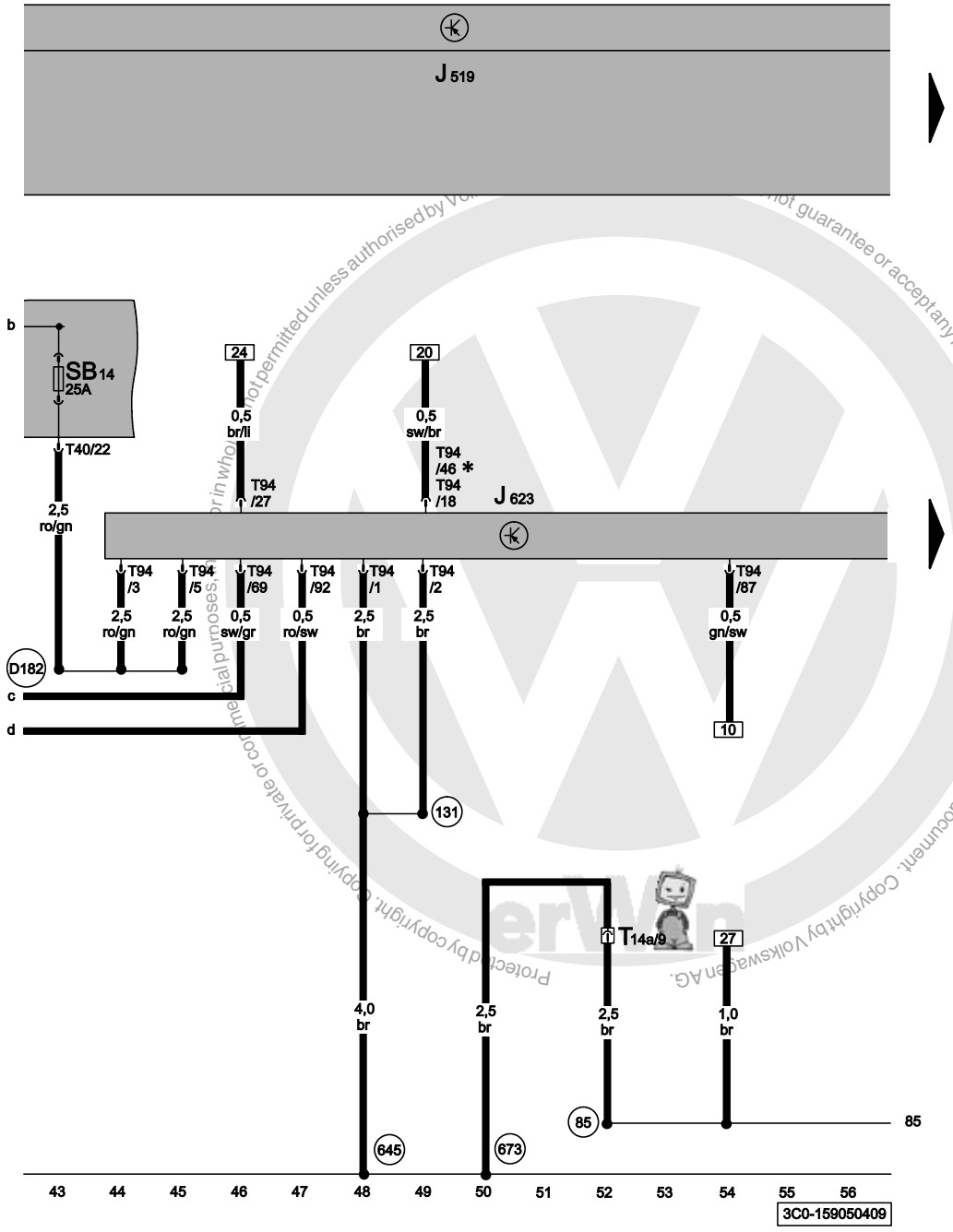


Terminal 15 voltage supply relay, fuses

J271	Motronic current supply relay (458)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB30	Fuse 30 on fuse holder B
T40	40-pin connector
B325	Positive connection 11 (30a), in interior wiring harness
*	Only models with emissions concept EU4
**	Only models with emissions concept EU5

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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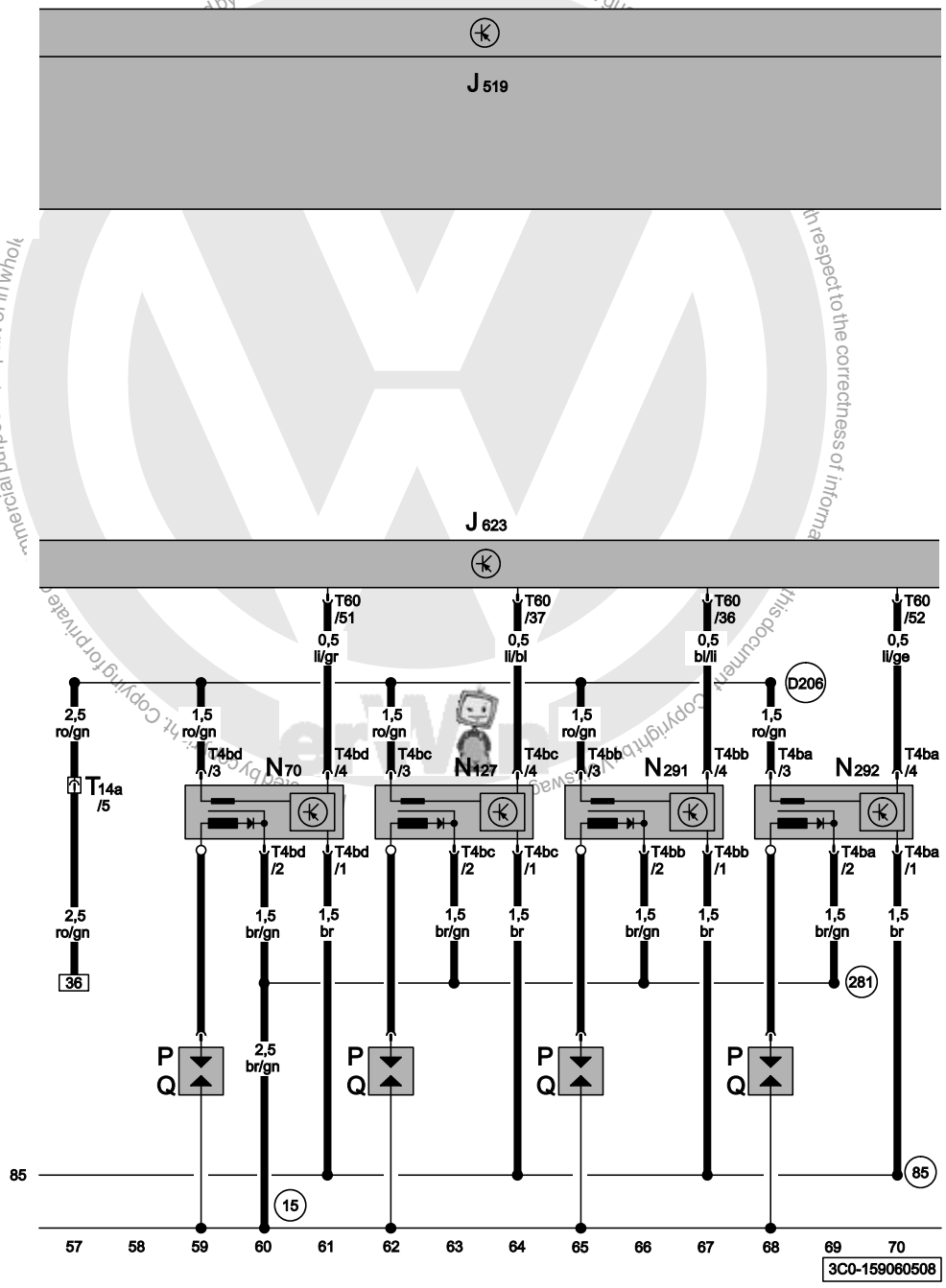


Engine control unit, fuses

J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
SB14	Fuse 14 on fuse holder B
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40	40-pin connector
T94	94-pin connector
85	Earth connection 1, in engine compartment wiring harness
131	Earth connection 2, in engine compartment wiring harness
645	Earth point 1, on bulkhead
673	Earth point 3, on front of left longitudinal member
D182	Connection 3 (87a), in engine compartment wiring harness
*	Only models with emissions concept EU5

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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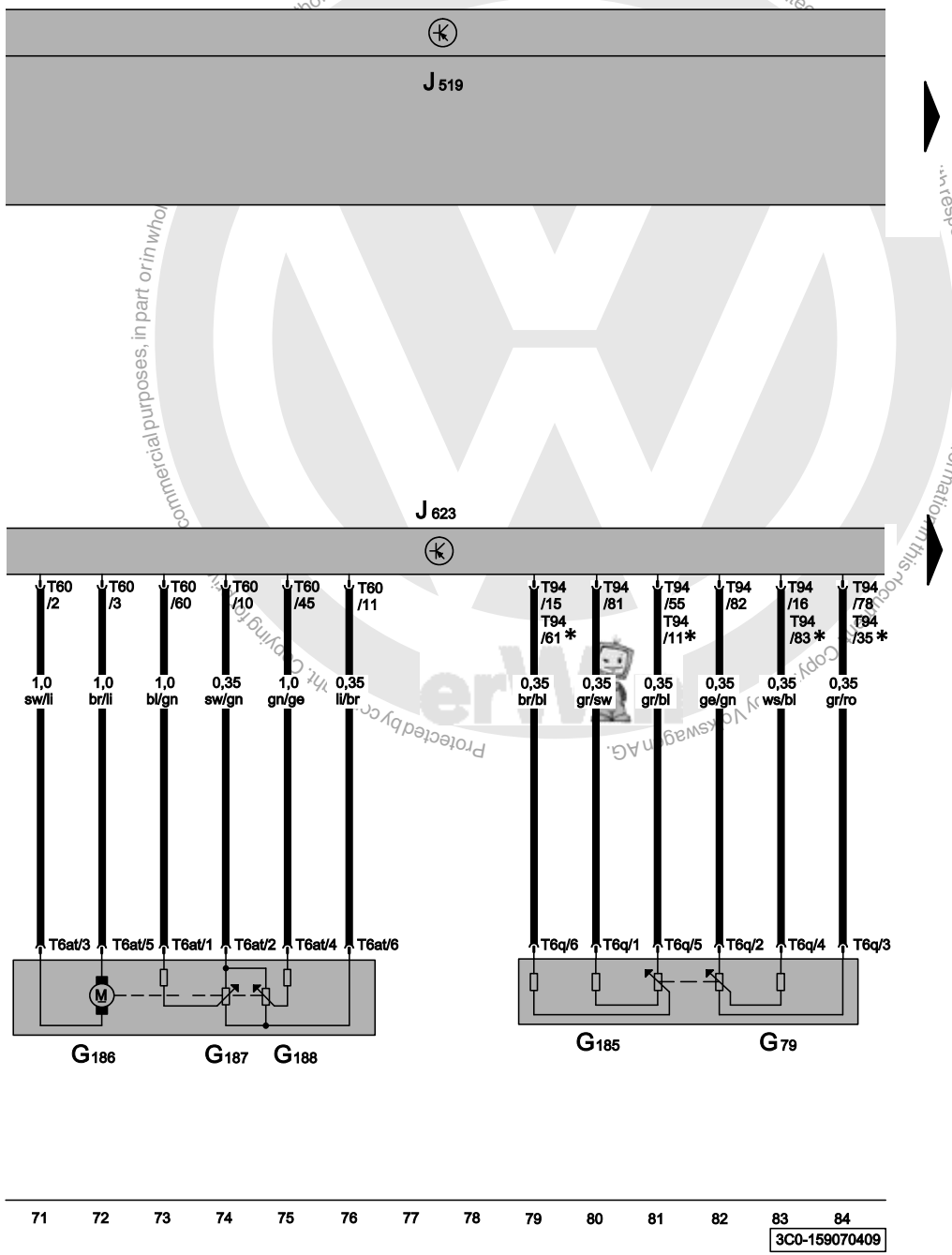


Engine control unit, ignition coils with output stage, spark plugs connectors, spark plugs

J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plug
T4ba	4-pin connector
T4bb	4-pin connector
T4bc	4-pin connector
T4bd	4-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	60-pin connector
15	Earth point, on cylinder head
85	Earth connection 1, in engine compartment wiring harness
281	Earth point 1, engine prewiring harness
D206	Connection 4 (87a) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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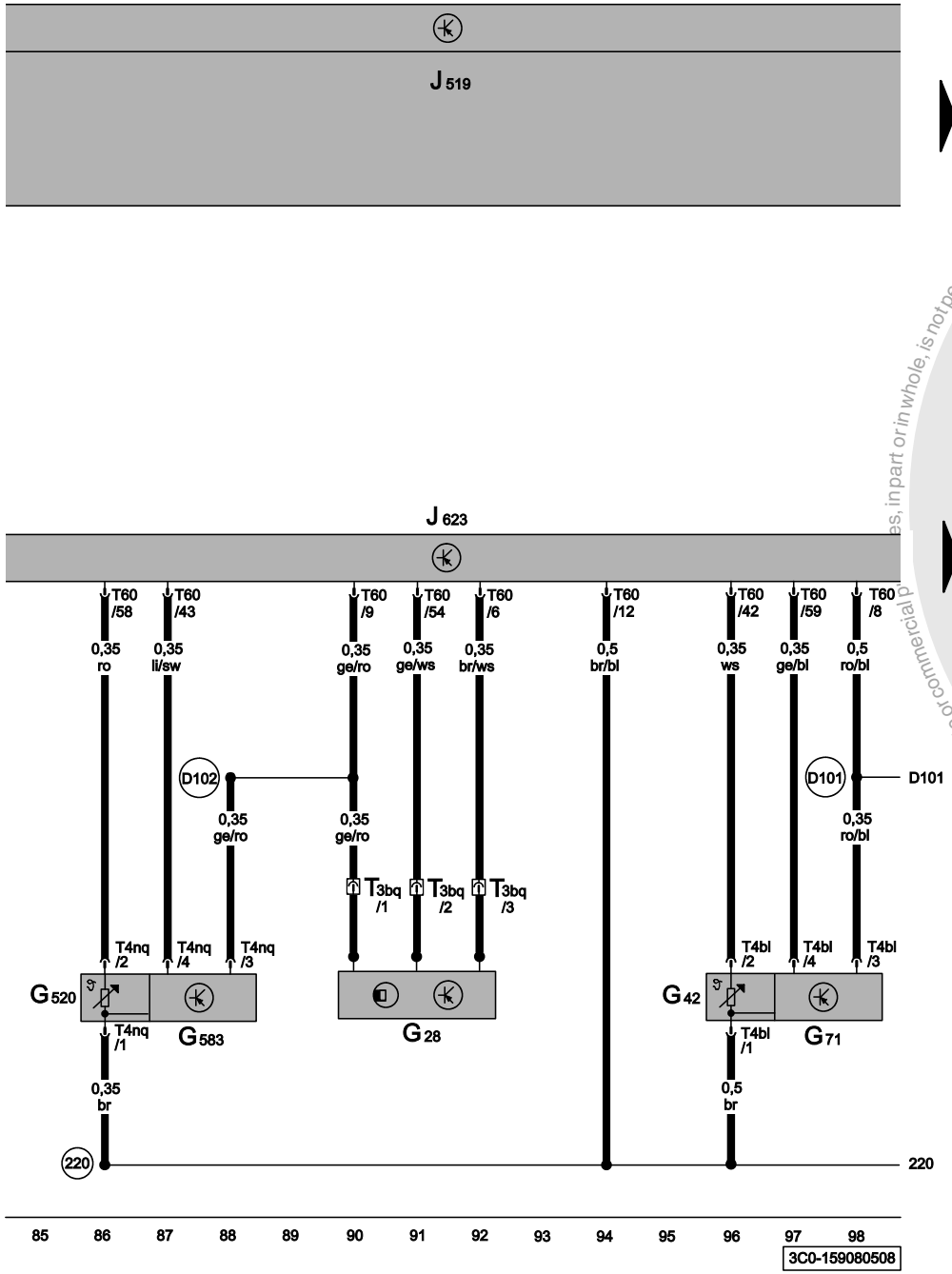
Accelerator position sender, throttle valve drive for electric throttle, engine control unit

G79	Accelerator position sender
G185	Accelerator position sender 2
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J519	Onboard supply control unit
J623	Engine control unit
T6q	6-pin connector
T6at	6-pin connector
T60	60-pin connector
T94	94-pin connector
*	Only models with emissions concept EU5

ws	=	white
sw	=	black
ro	=	red
br	=	brown
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Engine control unit, engine speed sender, intake air temperature sender, intake manifold pressure sender

G28	Engine speed sender
G42	Intake air temperature sender
G71	Intake manifold pressure sender
G520	Intake air temperature sender 3
G583	Intake manifold pressure sender 3
J519	Onboard supply control unit
J623	Engine control unit
T3bq	3-pin connector
T4bl	4-pin connector
T4nq	4-pin connector
T60	60-pin connector
220	Earth connection (sender earth), in engine wiring harness
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness

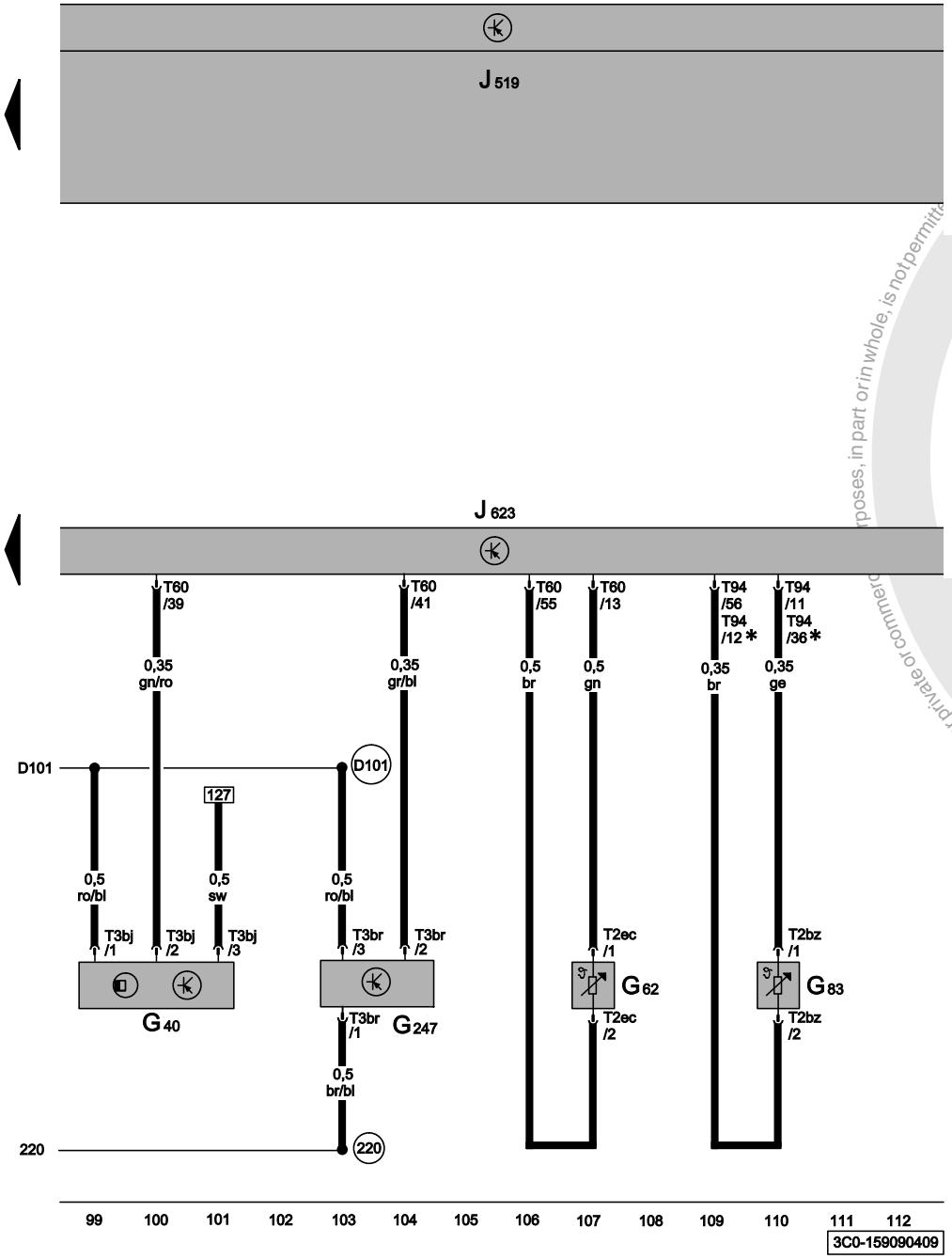


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sw	=	black
ro	=	red
br	=	brown
gn	=	green
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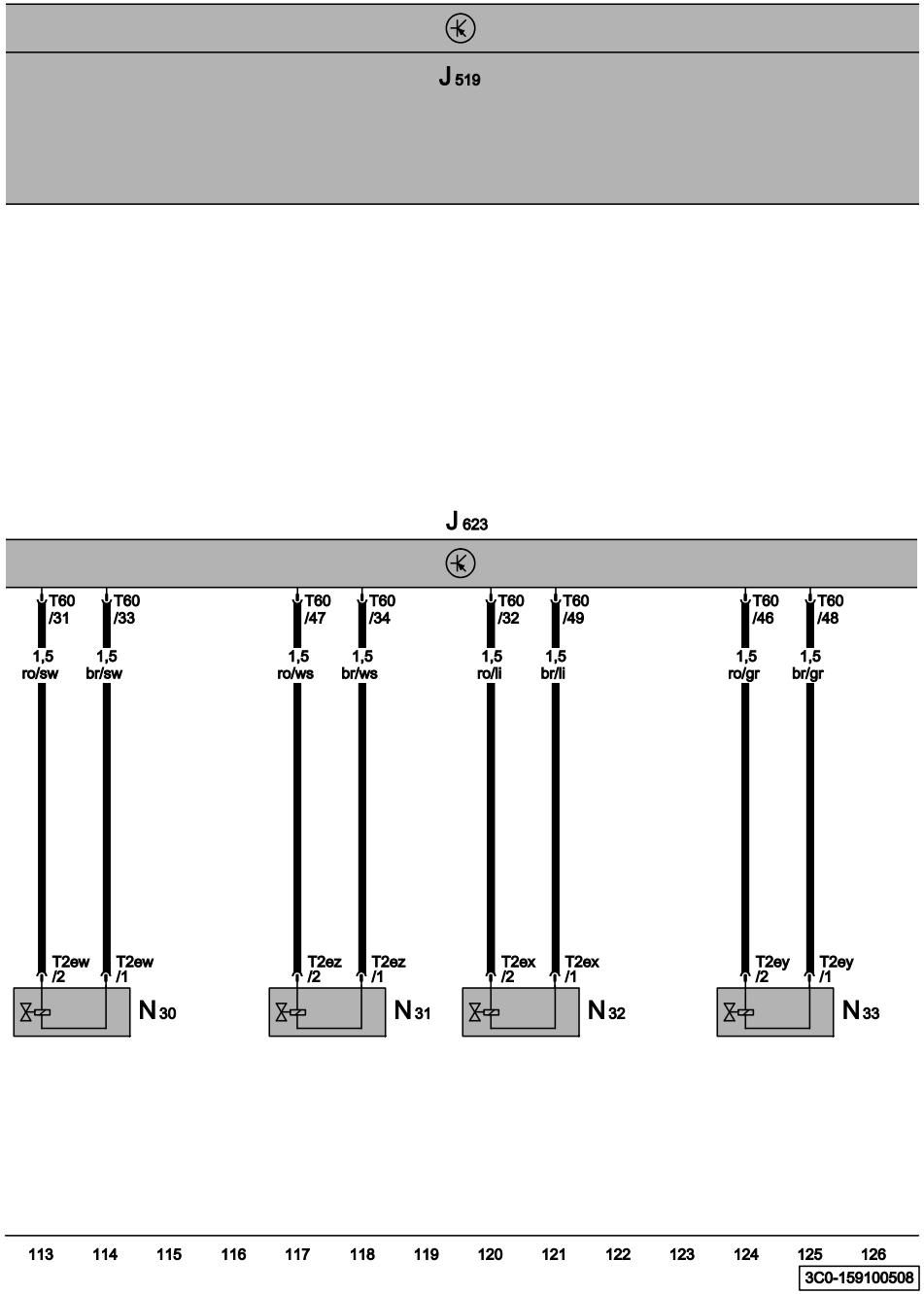
Engine control unit, Hall sender, coolant temperature sender, fuel pressure sender, radiator outlet coolant temperature sender

G40	Hall sender
G62	Coolant temperature sender
G83	Radiator outlet coolant temperature sender
G247	Fuel pressure sender
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector, black
T2ec	2-pin connector
T3bj	3-pin connector
T3br	3-pin connector
T60	60-pin connector
T94	94-pin connector
220	Earth connection (sender earth), in engine wiring harness
D101	Connection 1, in engine compartment wiring harness
*	Only models with emissions concept EU5



ws	=	white
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ro	=	red
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gn	=	green
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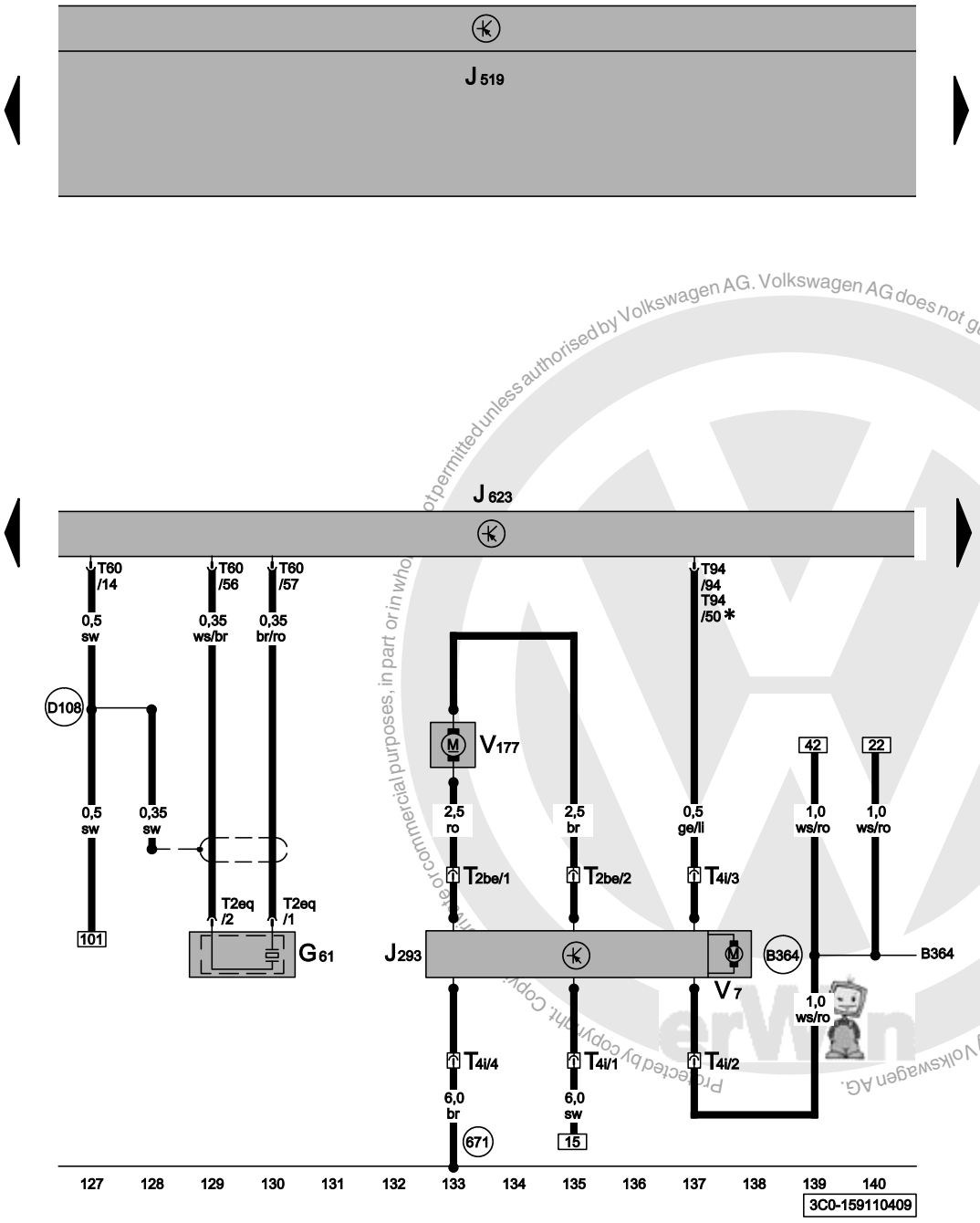


Engine control unit, injectors

J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T2ew	2-pin connector
T2ex	2-pin connector
T2ey	2-pin connector
T2ez	2-pin connector
T60	60-pin connector

ws	=	white
sw	=	black
ro	=	red
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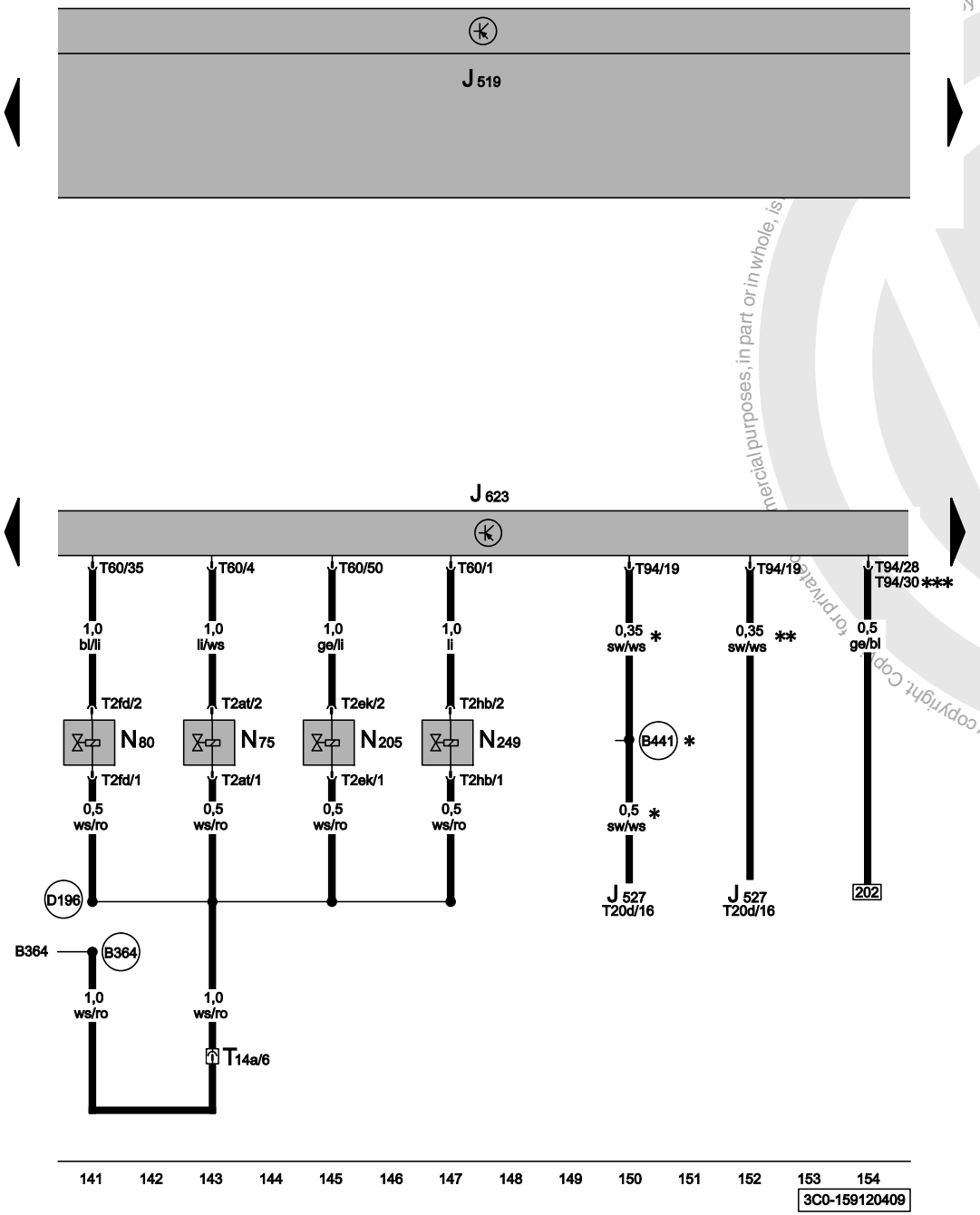


Engine control unit, knock sensor, radiator fan control unit, radiator fan

G61	Knock sensor 1
J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
T2be	2-pin connector, on lock carrier
T2eq	2-pin connector
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B364	Connection 15 (87a), in main wiring harness
D108	Connection 6, in engine compartment wiring harness
*	Only models with emissions concept EU5

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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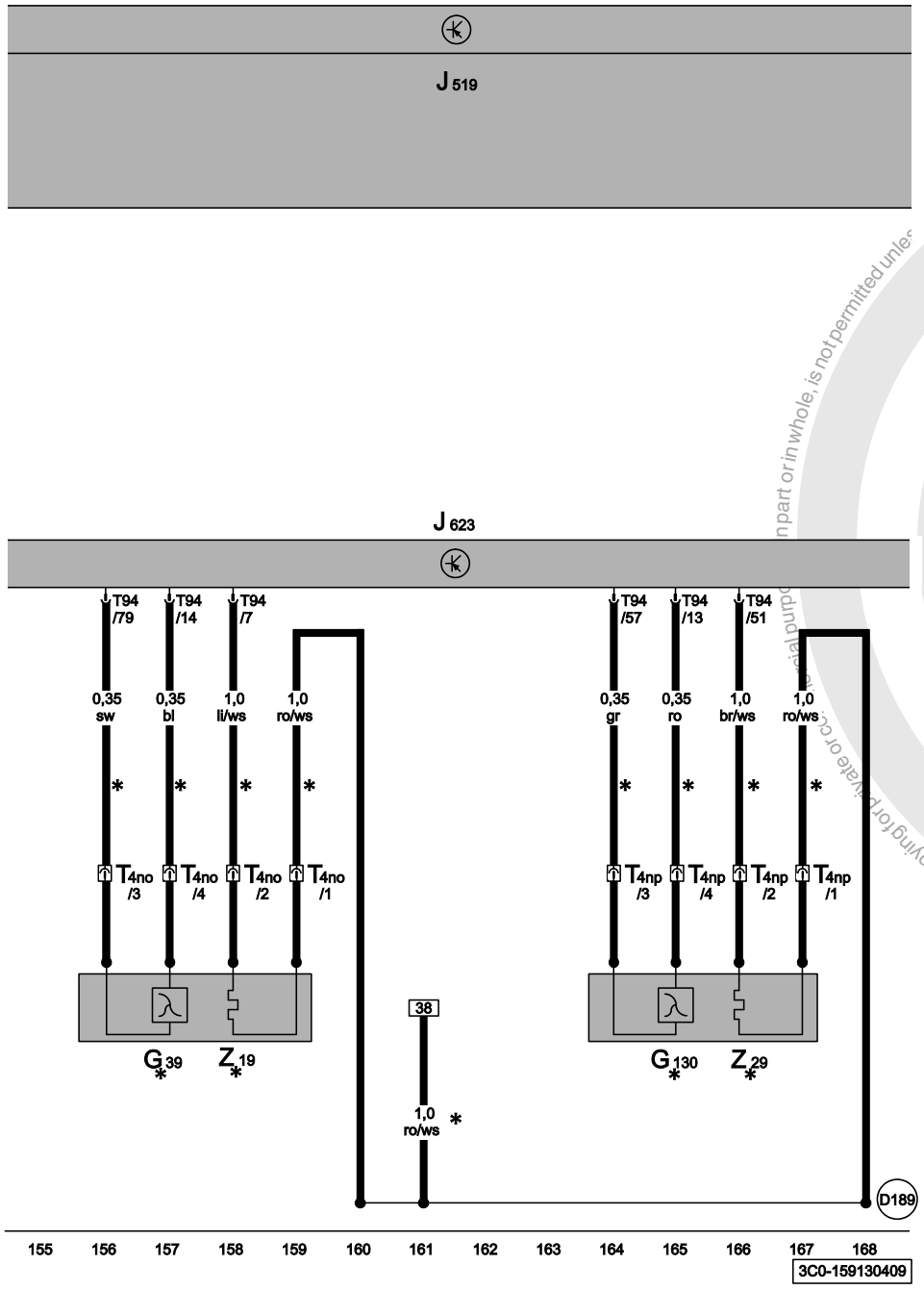
Engine control unit, control unit for steering column electronics, charge pressure control solenoid valve, activated charcoal filter system solenoid valve 1, inlet camshaft control valve 1, turbocharger air recirculation valve

J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N249	Turbocharger air recirculation valve
T2at	2-pin connector
T2ek	2-pin connector
T2fd	2-pin connector
T2hb	2-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T20d	20-pin connector
T60	60-pin connector
T94	94-pin connector
B364	Connection 15 (87a), in main wiring harness
B441	Connection (CCS), in main wiring harness
D196	Connection 2 (87a) in engine prewiring harness

* Only models with adaptive cruise control
** Only models with CCS
*** Only models with emissions concept EU5

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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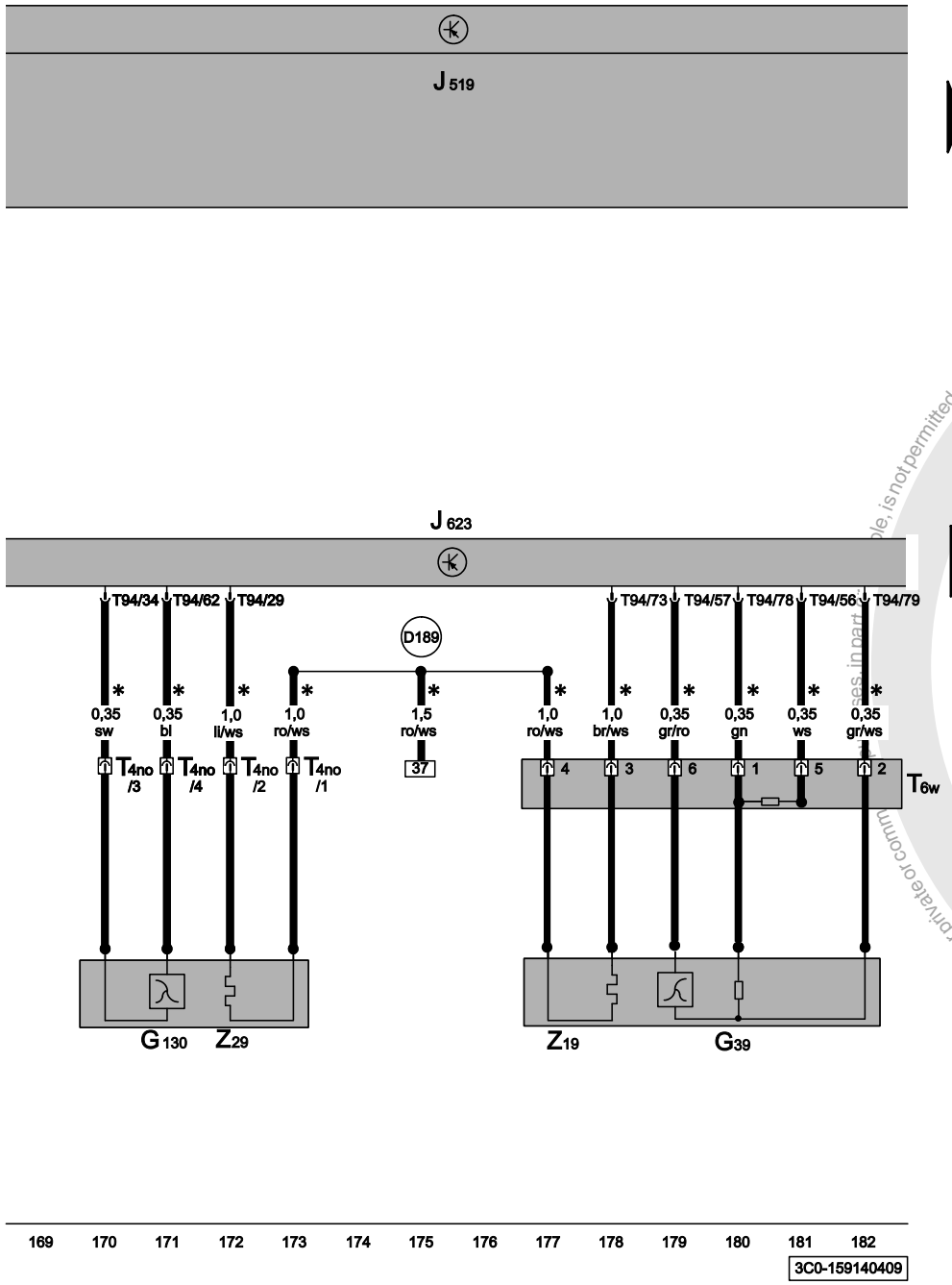


Engine control unit, Lambda probe, Lambda probe after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J519	Onboard supply control unit
J623	Engine control unit
T4no	4-pin connector
T4np	4-pin connector
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D189	Connection (87a) in engine prewiring harness
*	Only models with emissions concept EU4

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sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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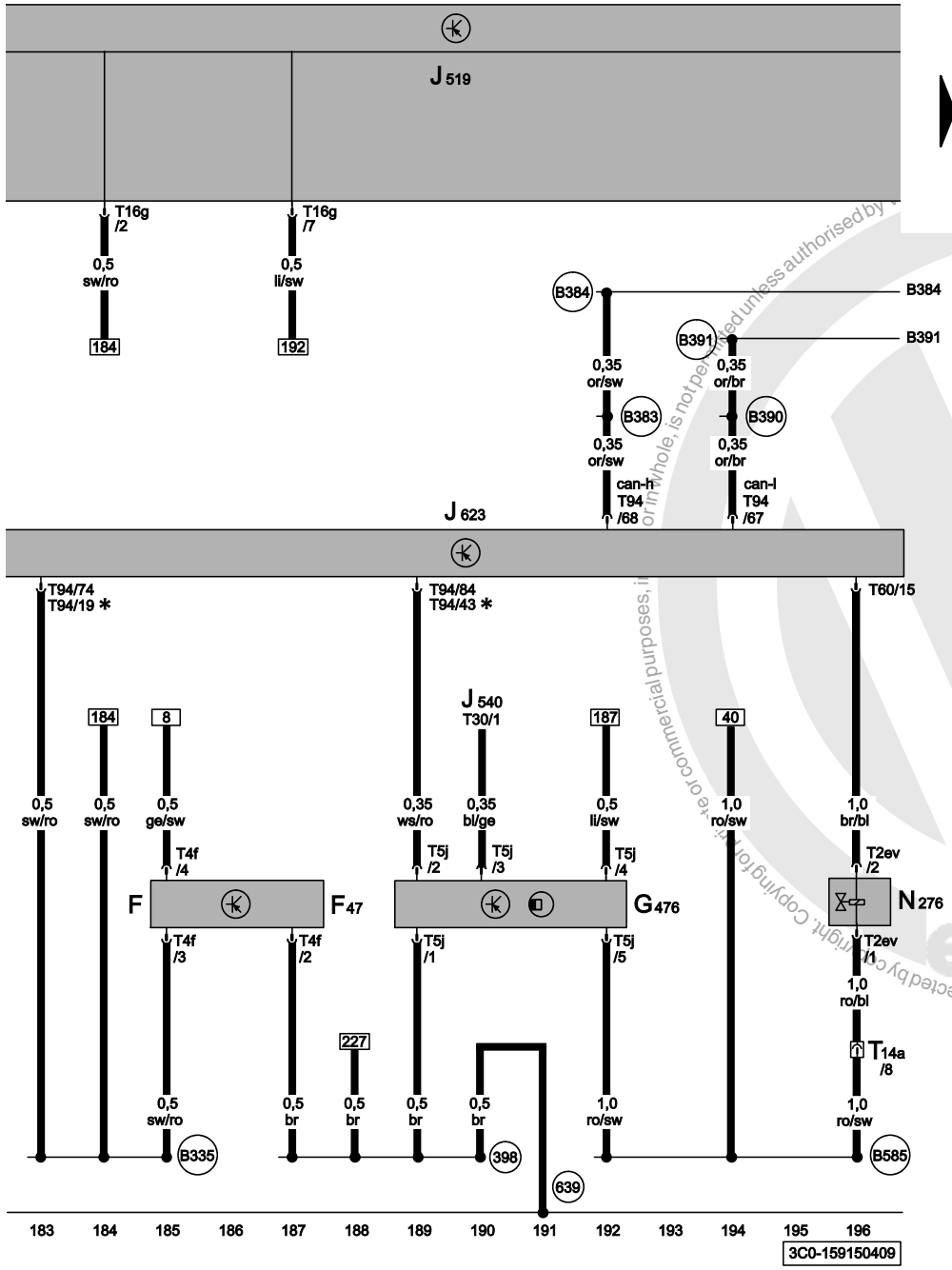


Engine control unit, Lambda probe, Lambda probe after catalytic converter, Lambda probe heater

G39	Lambda probe
G130	Lambda probe after catalytic converter
J519	Onboard supply control unit
J623	Engine control unit
T4no	4-pin connector
T6w	6-pin connector
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D189	Connection (87a) in engine prewiring harness
*	Only models with emissions concept EU5

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sw	=	black
ro	=	red
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gn	=	green
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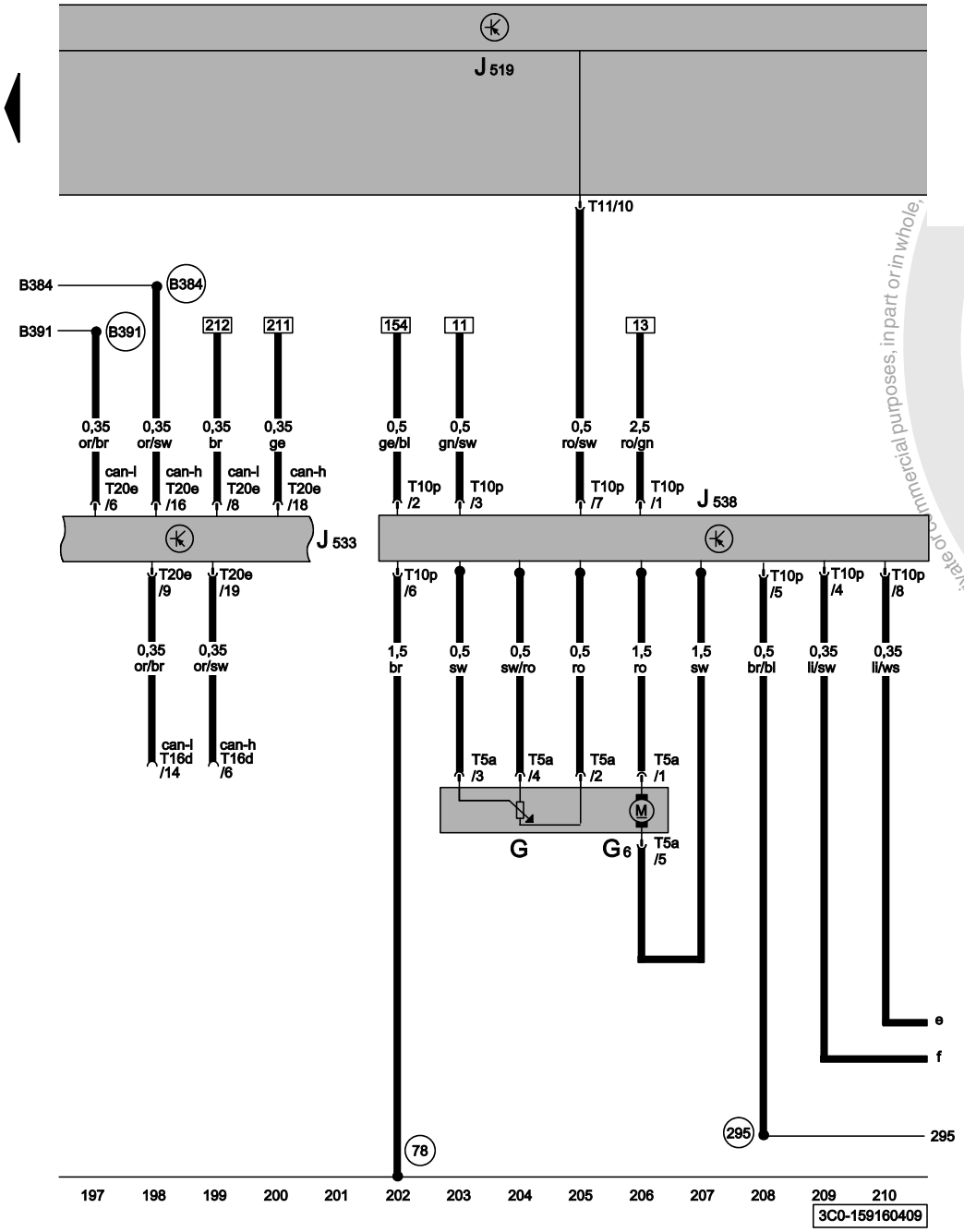
Engine control unit, clutch position sender, brake light switch, brake pedal switch, fuel pressure regulating valve

F	Brake light switch
F47	Brake pedal switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
N276	Fuel pressure regulating valve
T2ev	2-pin connector
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16g	16-pin connector
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B585	Positive connection 2 (87a), in interior wiring harness

* Only models with emissions concept EU5

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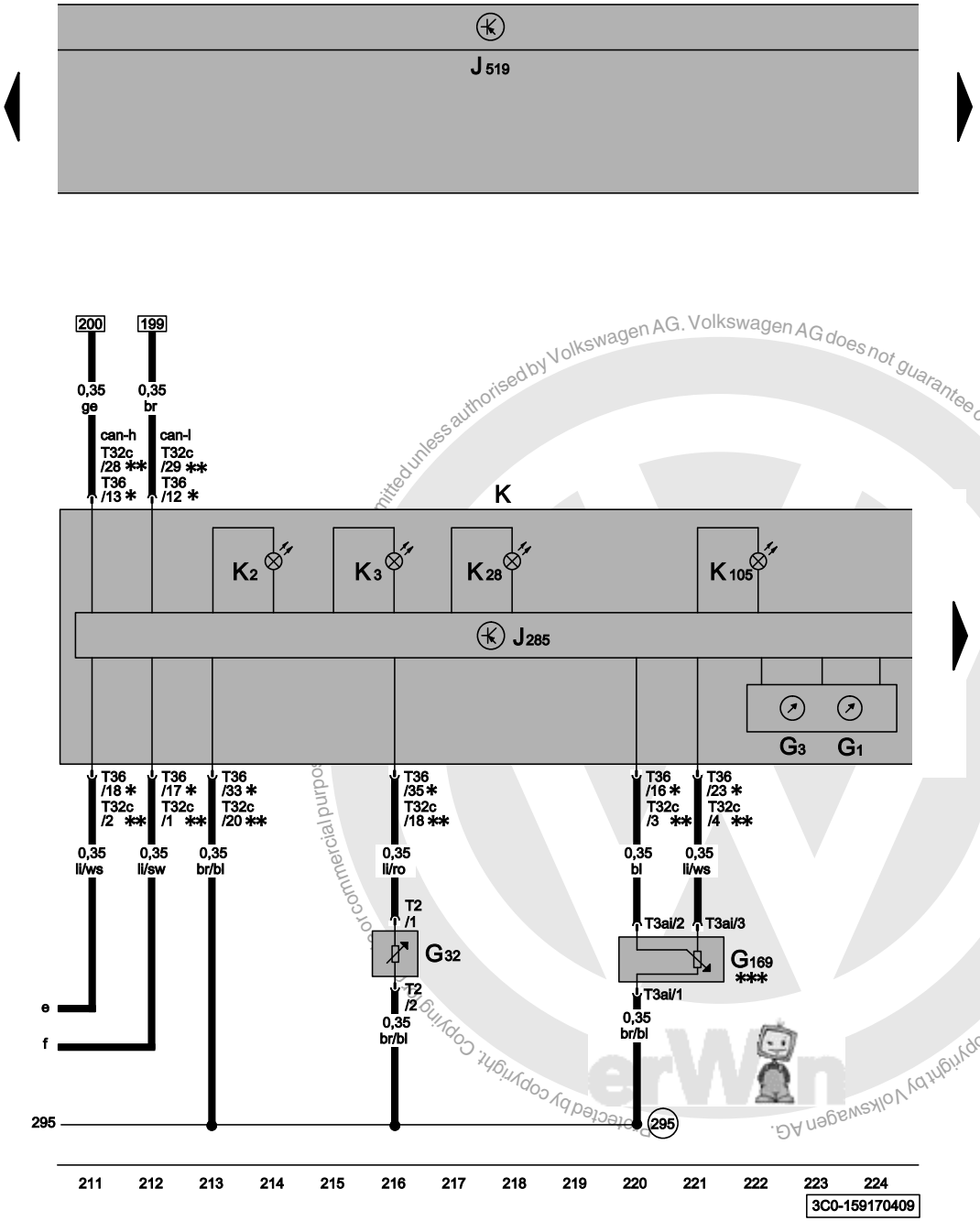


Data bus diagnosis interface, fuel pump control unit, fuel gauge sender, fuel system pressurisation pump

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J538	Fuel pump control unit
T5a	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
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li = purple
ge = yellow
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rs = pink

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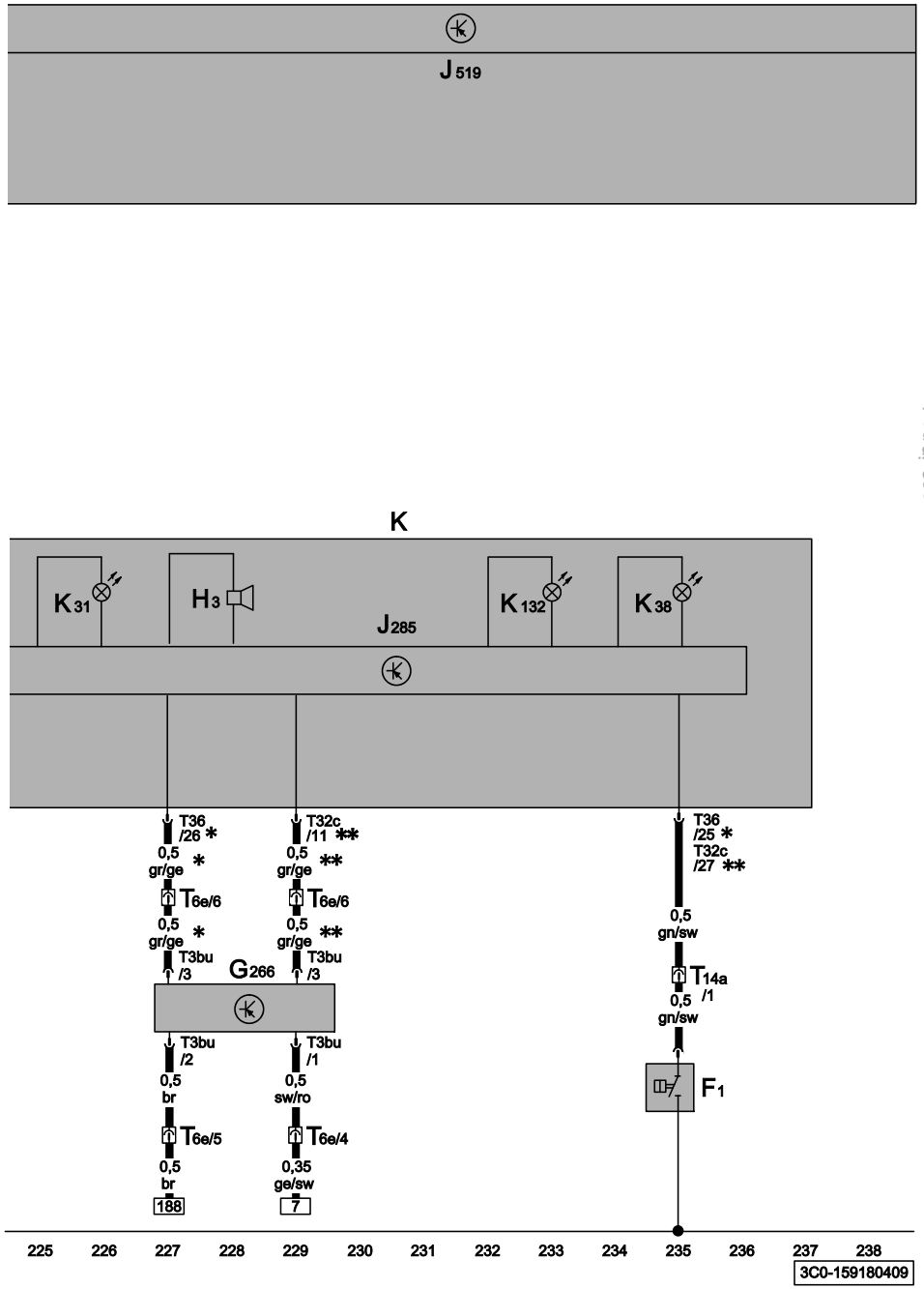


Dash panel insert, coolant shortage indicator sender, fuel gauge sender 2

G1	Fuel gauge
G3	Coolant temperature gauge
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K105	Reserve fuel warning lamp
T2	2-pin connector
T3ai	3-pin connector
T32c	32-pin connector
T36	36-pin connector
(295)	Earth connection 10, in interior wiring harness
*	Applicable to October 2008
**	Applicable from November 2008
***	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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Dash panel insert, oil pressure switch, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
*	Applicable to October 2008
**	Applicable from November 2008

ws	=	white
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1.8 l/112 kW - Motronic, engine codes CGYA, CDAB
From May 2008

1.8 l/118 kW - Motronic, engine codes BZB, CDAA
From May 2008

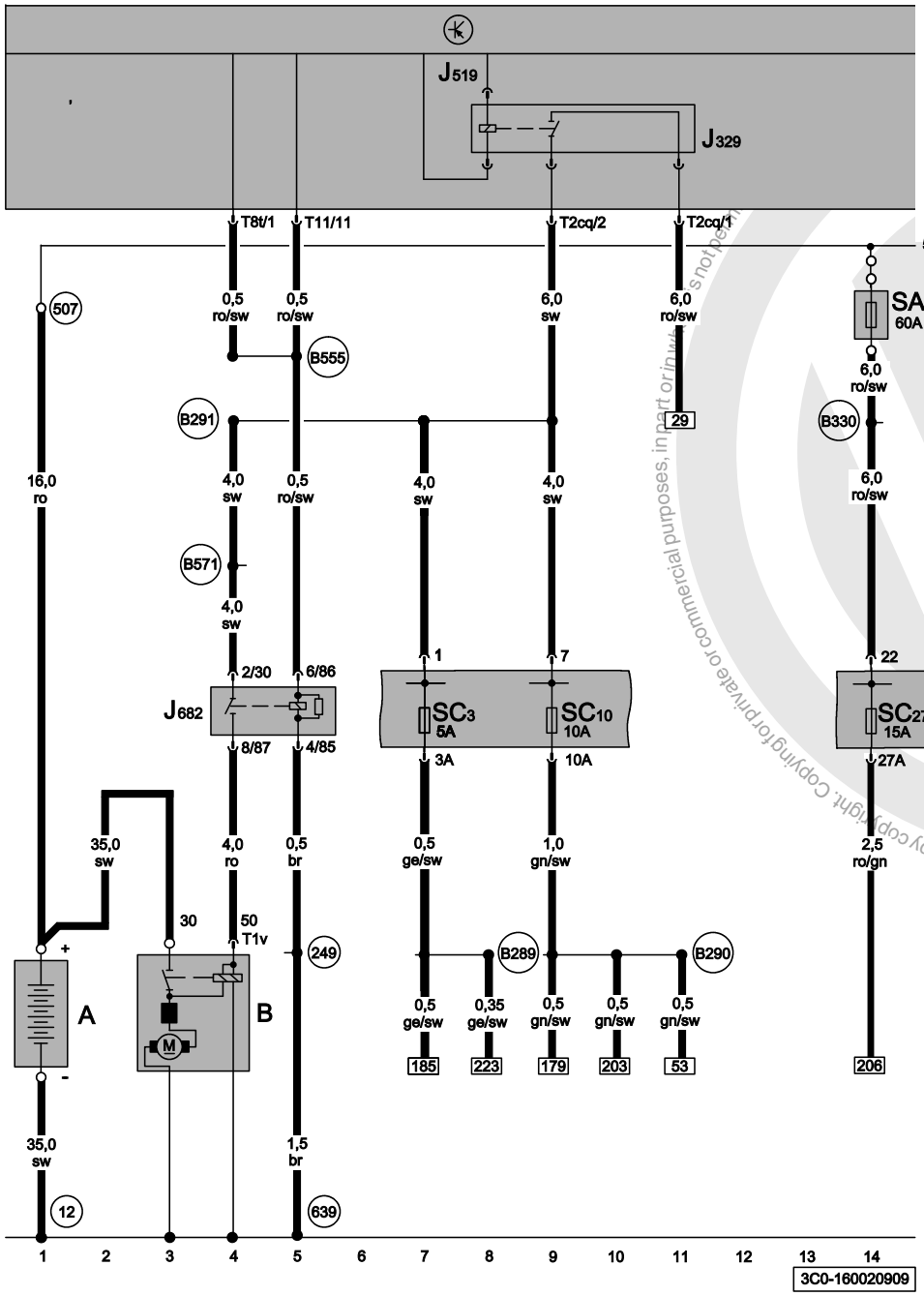
2.0 l/147 kW - Motronic, engine codes CAWB, CCTA, CCZA
From May 2008

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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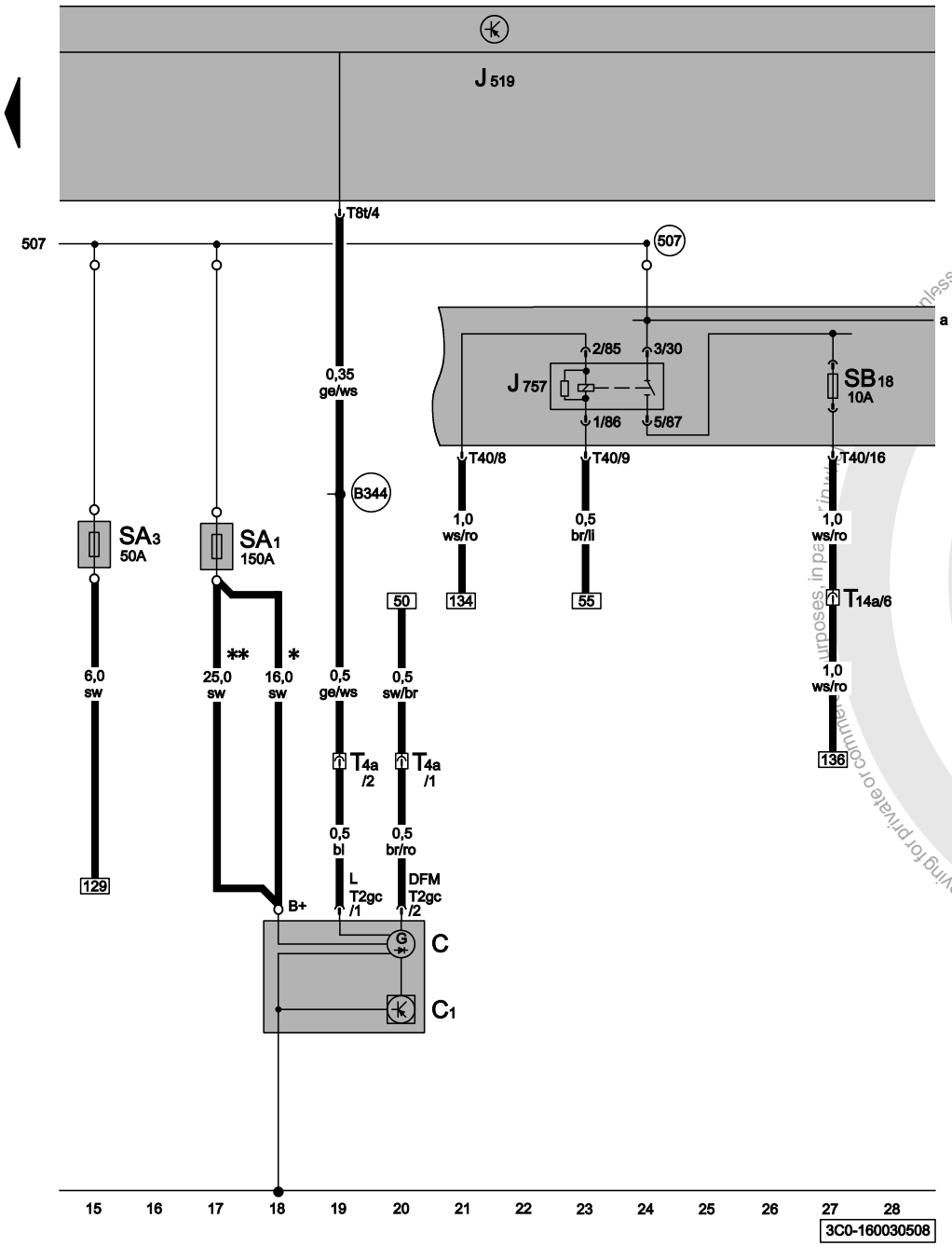


Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, (433)
SA4	Fuse 4 on fuse holder A
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
507	Threaded connection (30), on battery fuse holder
639	Earth point, left A-pillar
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
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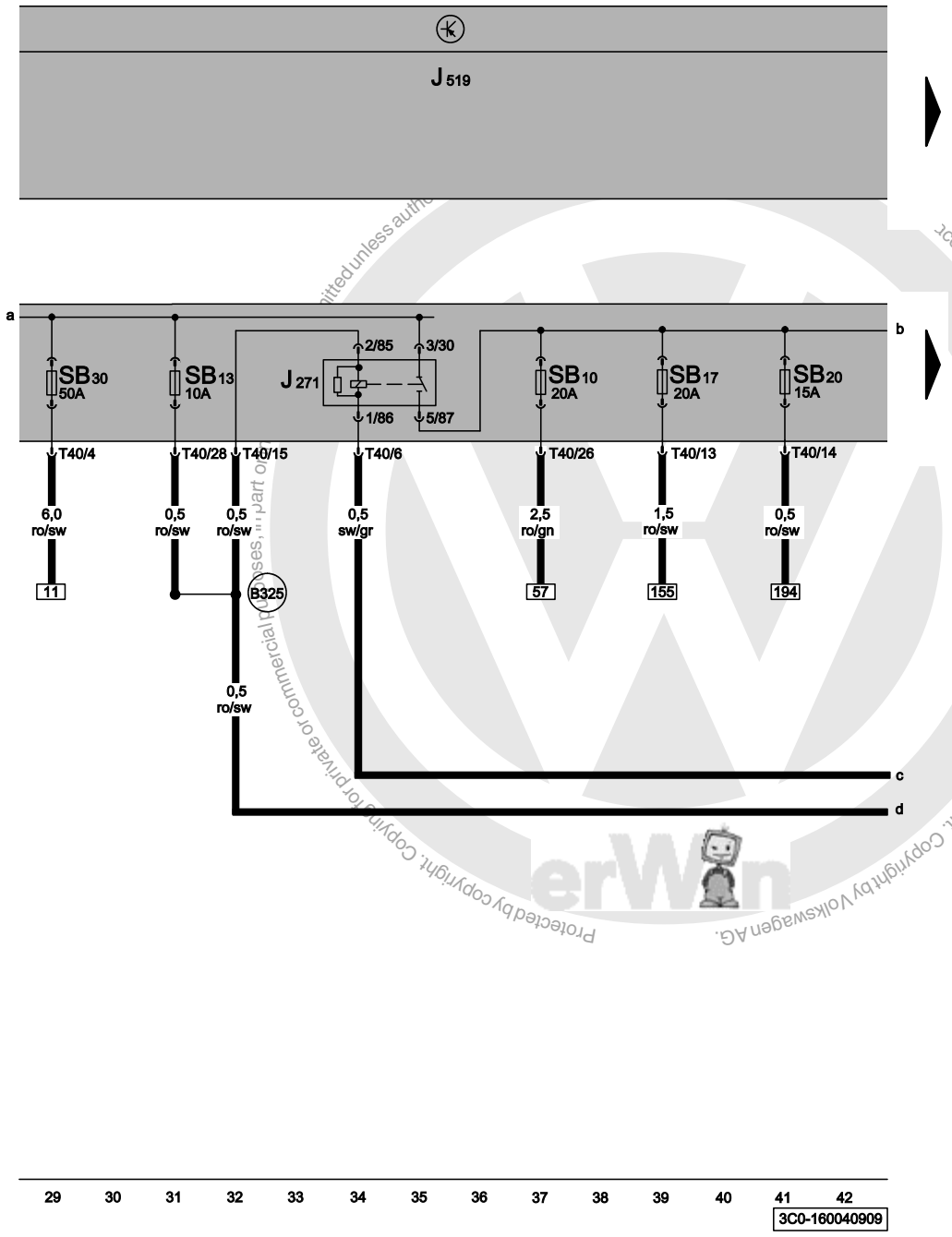


Alternator, current supply relay for engine components, fuses

C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
J757	Engine component current supply relay
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB18	Fuse 18 on fuse holder B
T2gc	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40	40-pin connector
(507)	Threaded connection (30), on battery fuse holder
(B344)	Connection 1 (61), in main wiring harness
*	Only models with 110 A alternator
**	Only models with 140 A alternator

ws	=	white
sw	=	black
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rs	=	pink

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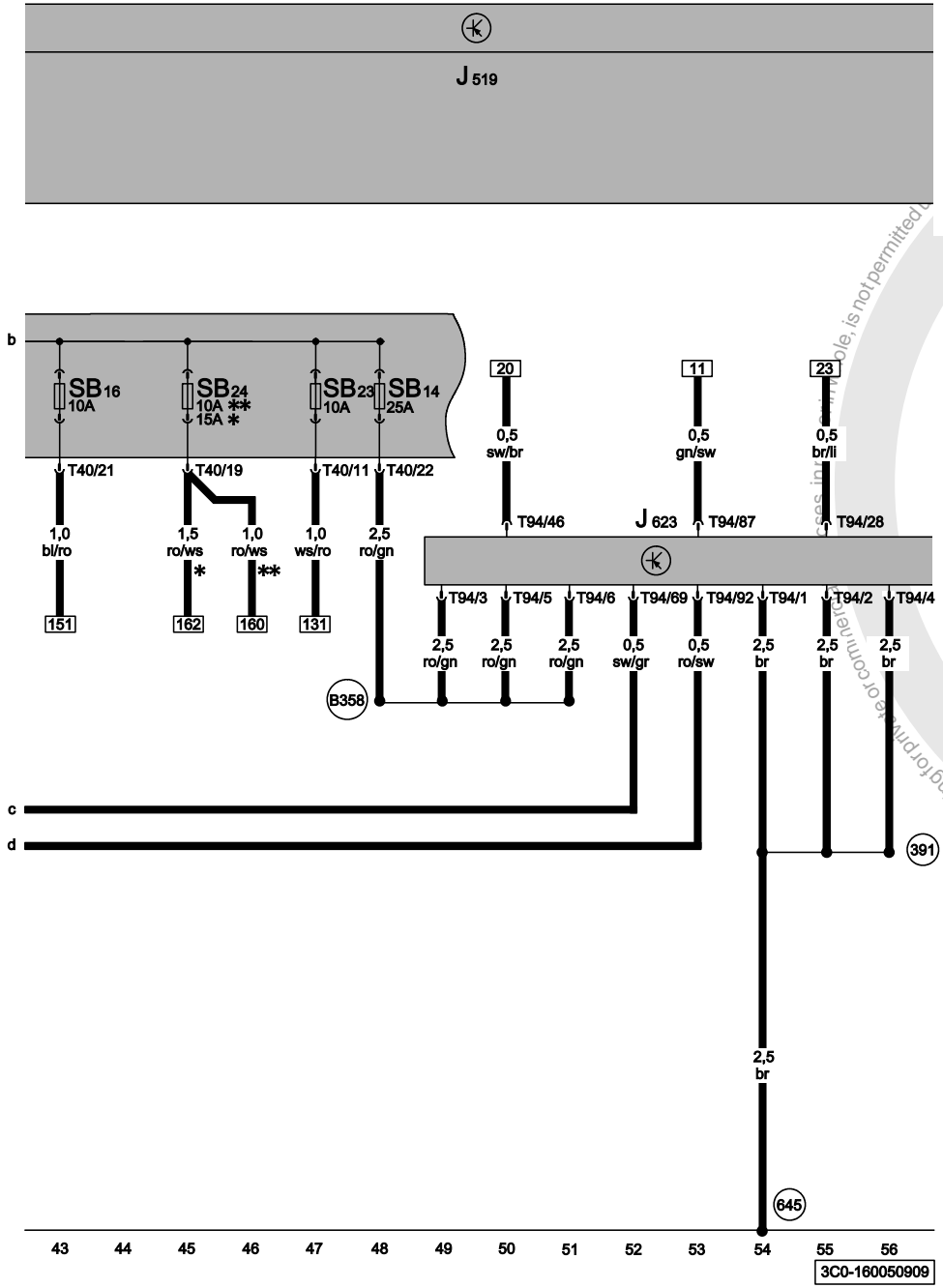


Terminal 15 voltage supply relay, fuses

J271	Motronic current supply relay (100)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB30	Fuse 30 on fuse holder B
T40	40-pin connector
B325	Positive connection 11 (30a), in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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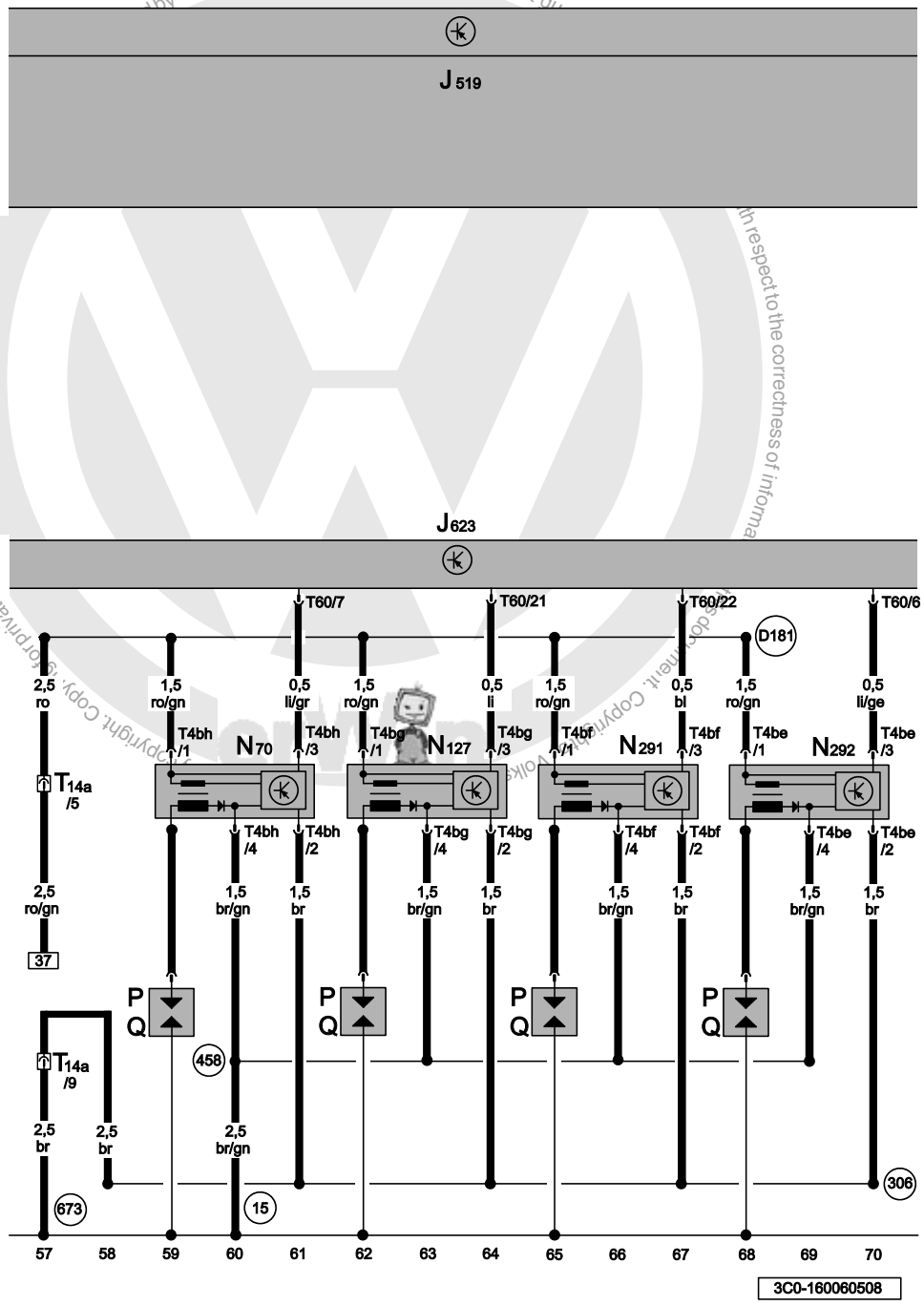


Engine control unit, fuses SB

J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
T40	40-pin connector
T94	94-pin connector
(391)	Earth connection 26, in main wiring harness
(645)	Earth point 1, on bulkhead
(B358)	Connection 9 (87a), in main wiring harness
*	Only models with engine code CCTA
**	Only models with engine codes BZB, CAWB, CGYA, CCZA

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

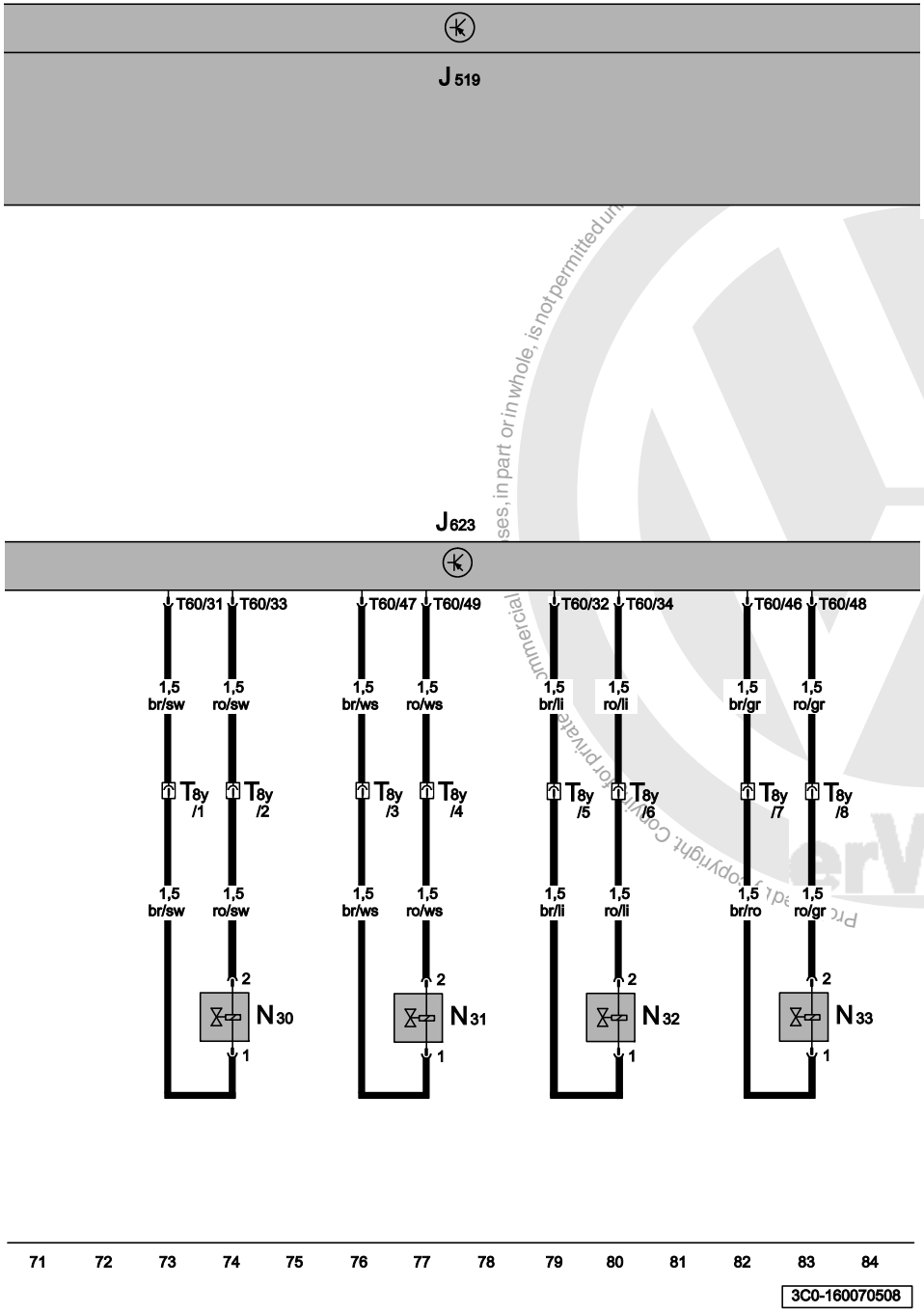
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Engine control unit, ignition coils 1-4 with output stage, spark plugs, spark plug connectors

J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plug
T4be	4-pin connector
T4bf	4-pin connector
T4bg	4-pin connector
T4bh	4-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
15	Earth point, on cylinder head
306	Earth connection (ignition coils), in engine prewiring harness
458	Earth point 3, engine prewiring harness
673	Earth point 3, on front of left longitudinal member
D181	Connection 2 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

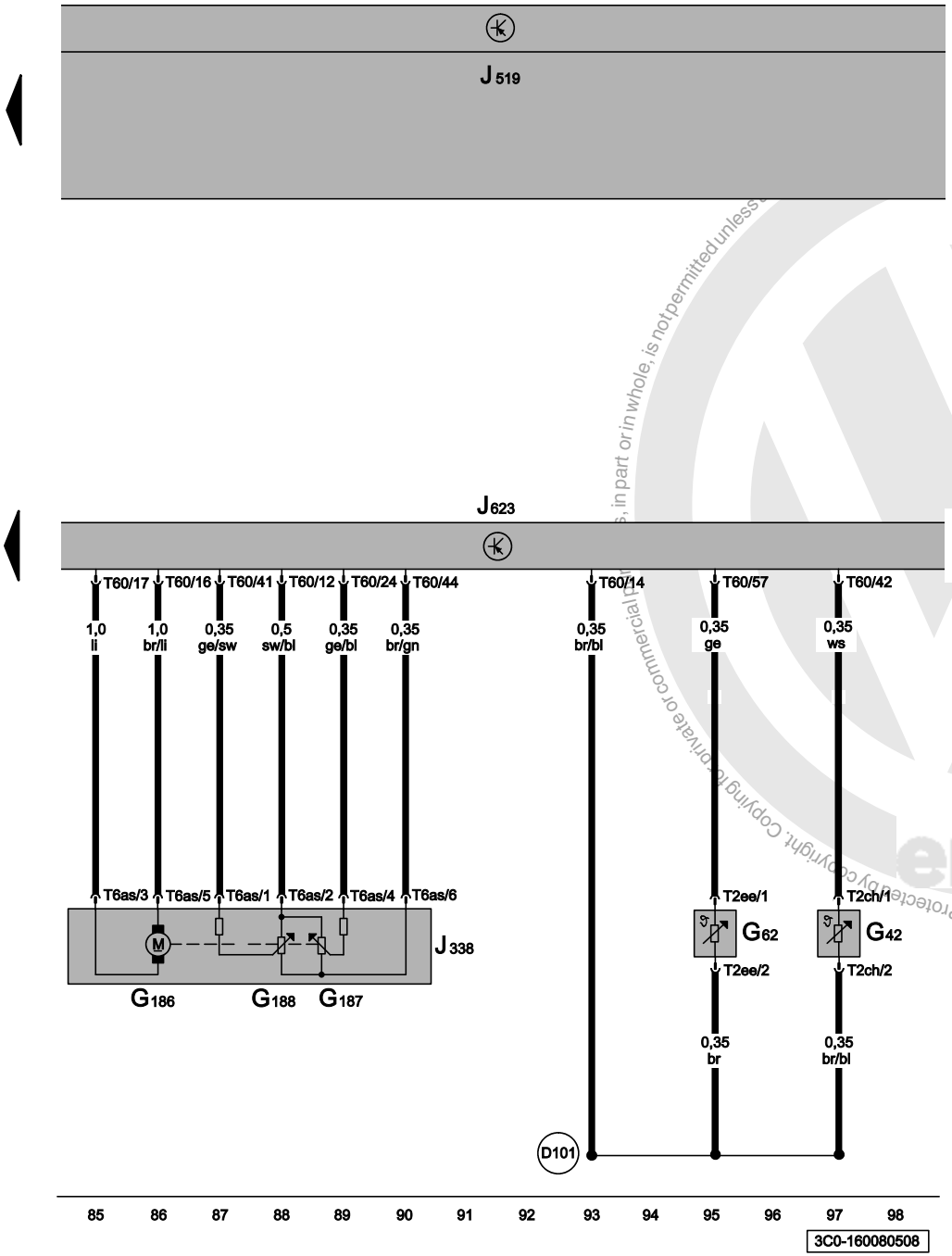


Engine control unit, injectors for cylinders 1-4

J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8y	8-pin connector, black, near cylinder head
T60	60-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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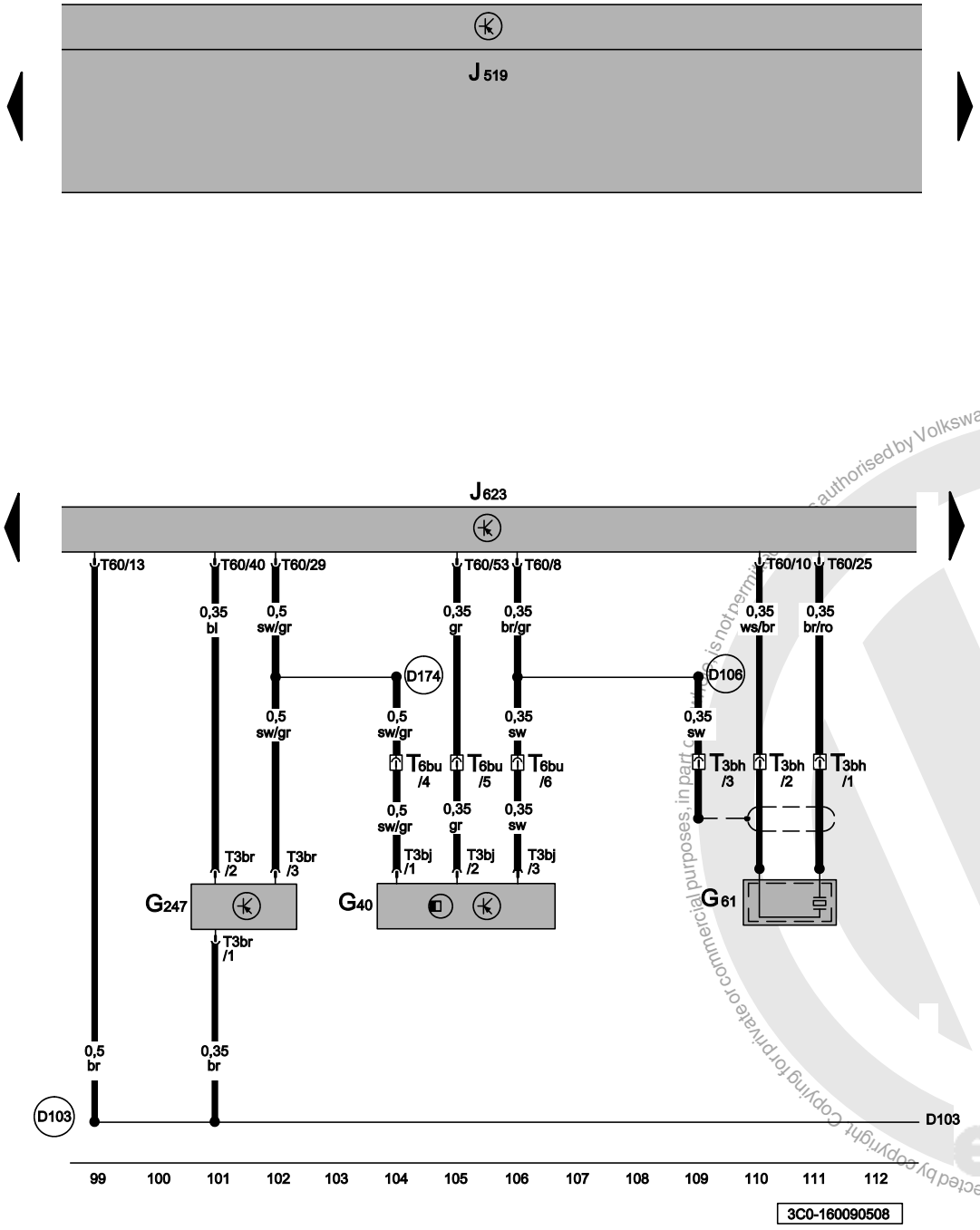


Engine control unit, throttle valve module, coolant temperature sender, intake air temperature sender 2

G42	Intake air temperature sender
G62	Coolant temperature sender
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
T2ch	2-pin connector
T2ee	2-pin connector
T6as	6-pin connector
T60	60-pin connector
D101	Connection 1, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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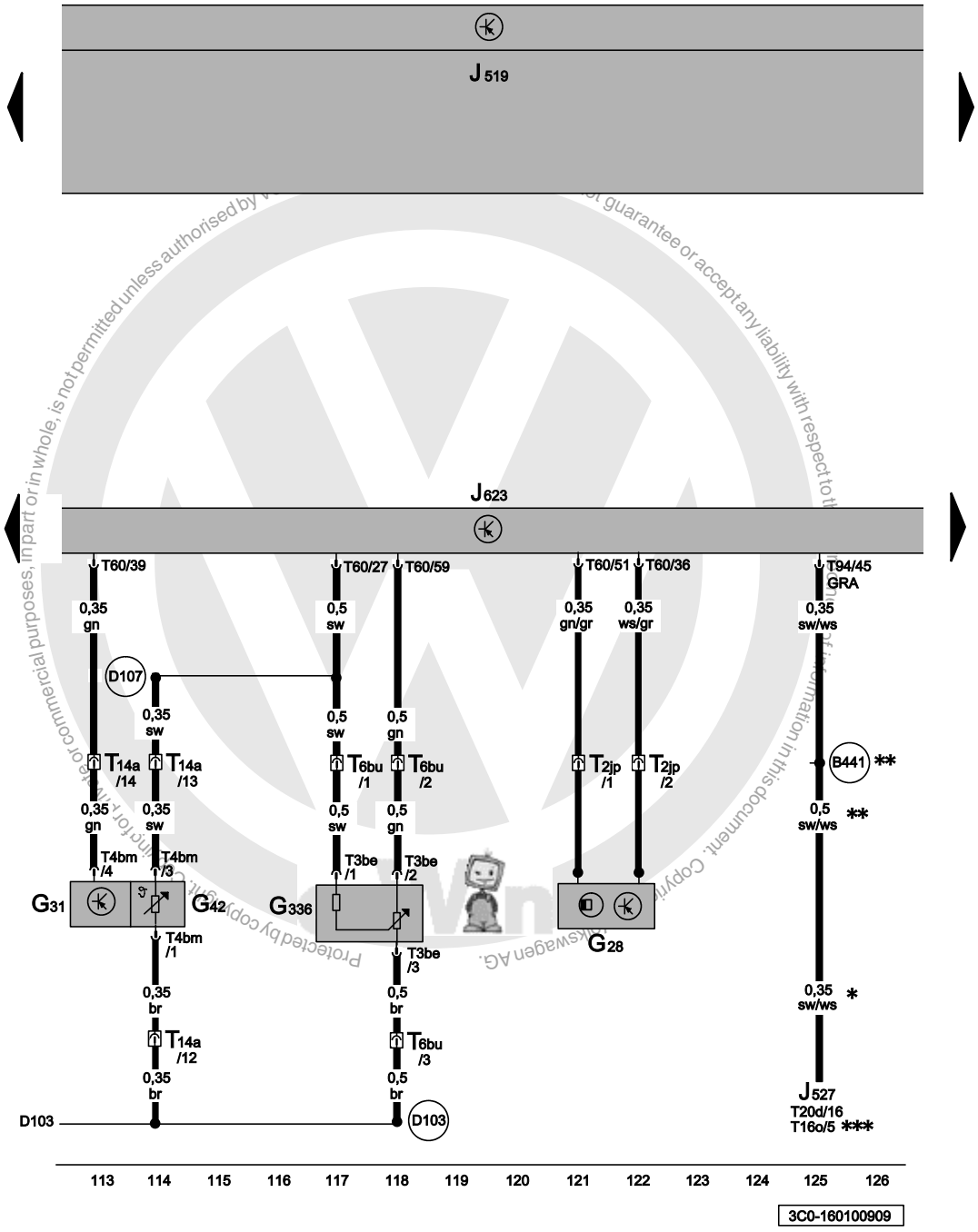


Engine control unit, Hall sender, fuel pressure sender, knock sensor 1

G40	Hall sender
G61	Knock sensor 1
G247	Fuel pressure sender
J519	Onboard supply control unit
J623	Engine control unit
T3bh	3-pin connector
T3bj	3-pin connector
T3br	3-pin connector
T6bu	6-pin connector, near cylinder head
T60	60-pin connector
D103	Connection 3, in engine compartment wiring harness
D106	Connection 4, in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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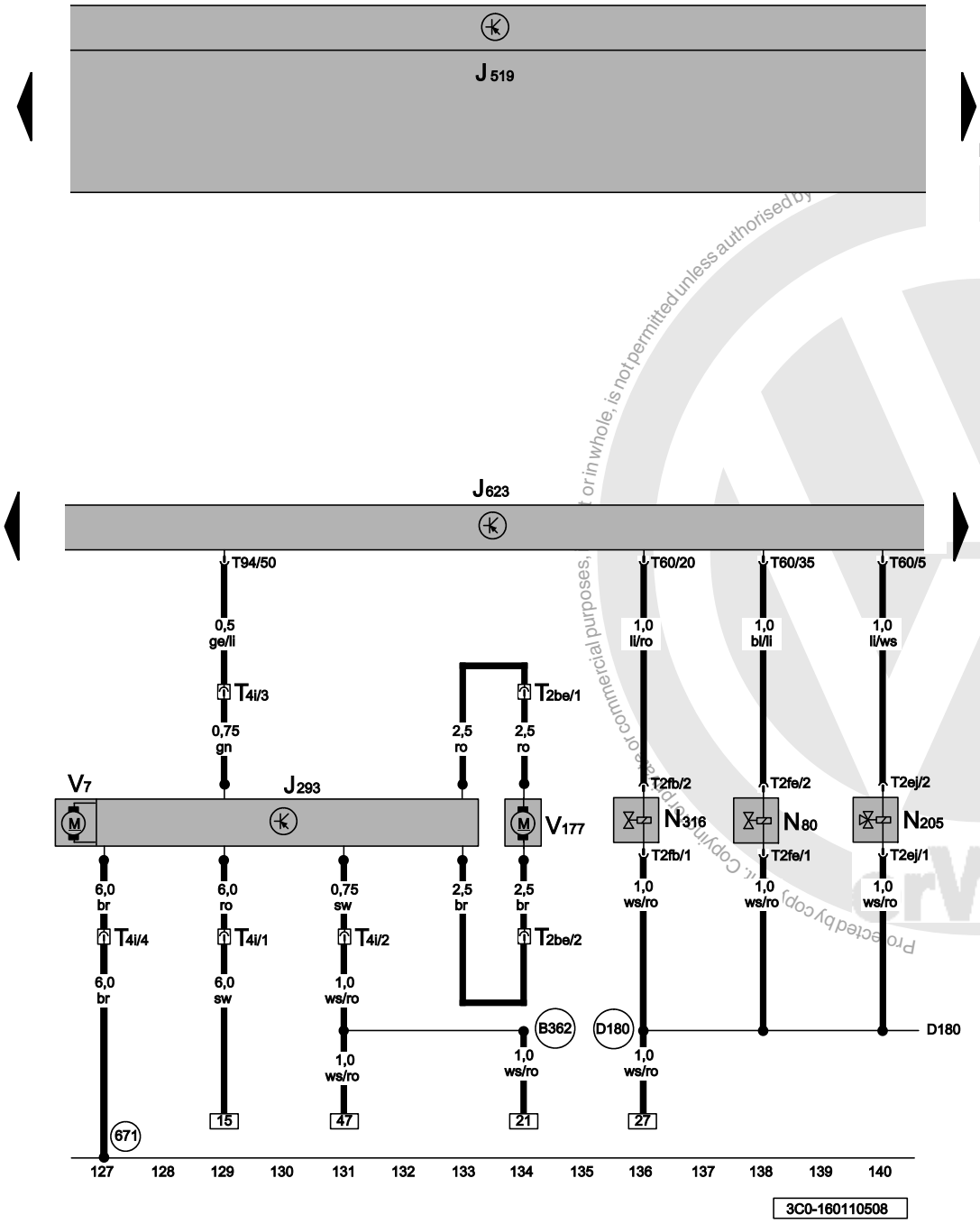
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Engine control unit, engine speed sender, charge pressure sender, intake air temperature sender, intake manifold flap potentiometer, steering column electronics control unit

G28	Engine speed sender
G31	Charge air pressure sender
G42	Intake air temperature sender
G336	Intake manifold flap potentiometer
J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
T2jp	2-pin connector
T3be	3-pin connector
T4bm	4-pin connector
T6bu	6-pin connector, near cylinder head
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16o	16-pin connector
T20d	20-pin connector
T60	60-pin connector
T94	94-pin connector
B441	Connection (CCS), in main wiring harness
D103	Connection 3, in engine compartment wiring harness
D107	Connection 5, in engine compartment wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control
***	Applicable from November 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

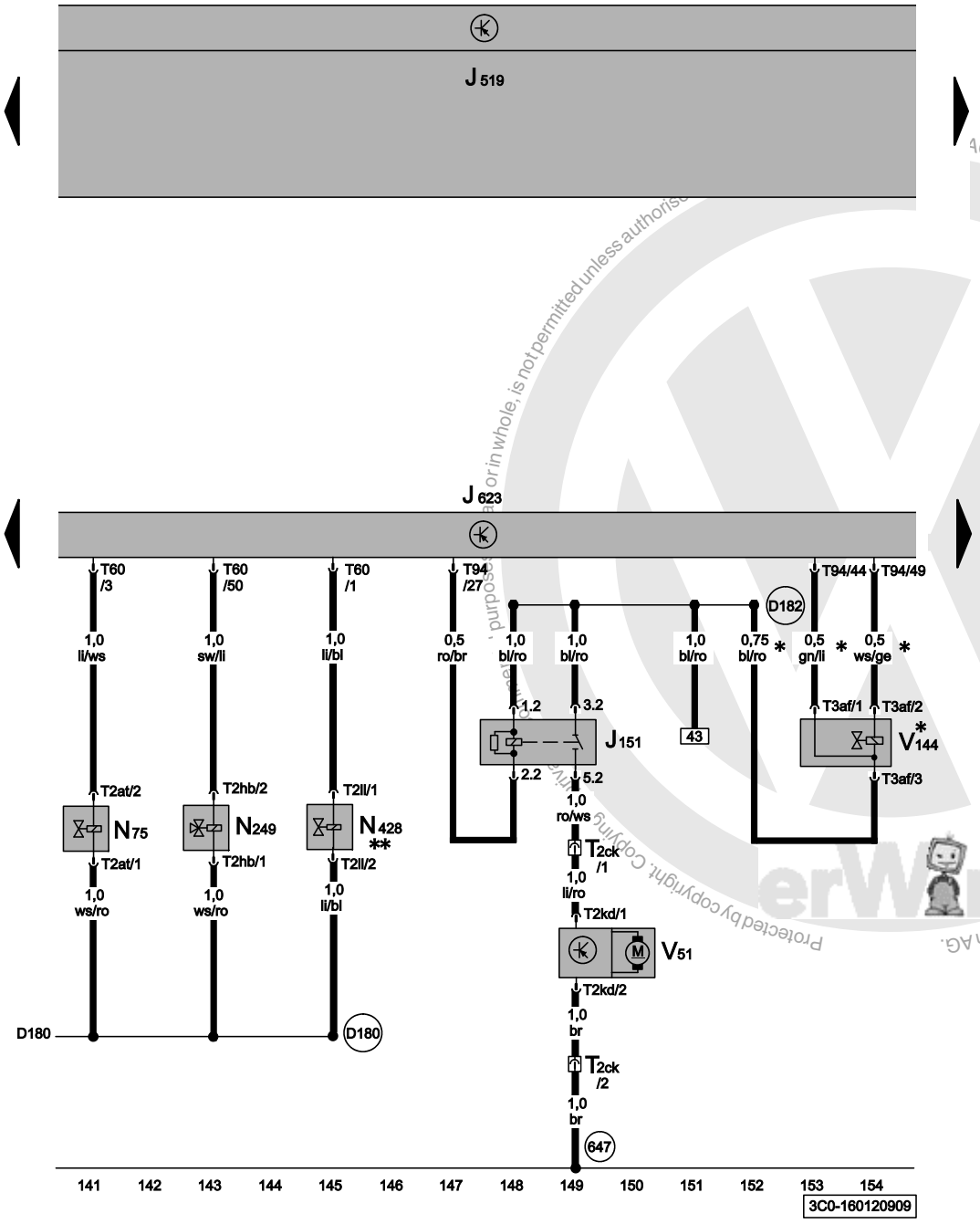


Engine control unit, activated charcoal filter system solenoid valve 1, radiator fan control unit, camshaft adjustment control valve 1, intake manifold flap valve, radiator fan

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N316	Intake manifold flap valve
T2be	2-pin connector, on lock carrier
T2ej	2-pin connector, yellow
T2fb	2-pin connector, black
T2fe	2-pin connector, black
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B362	Connection 13 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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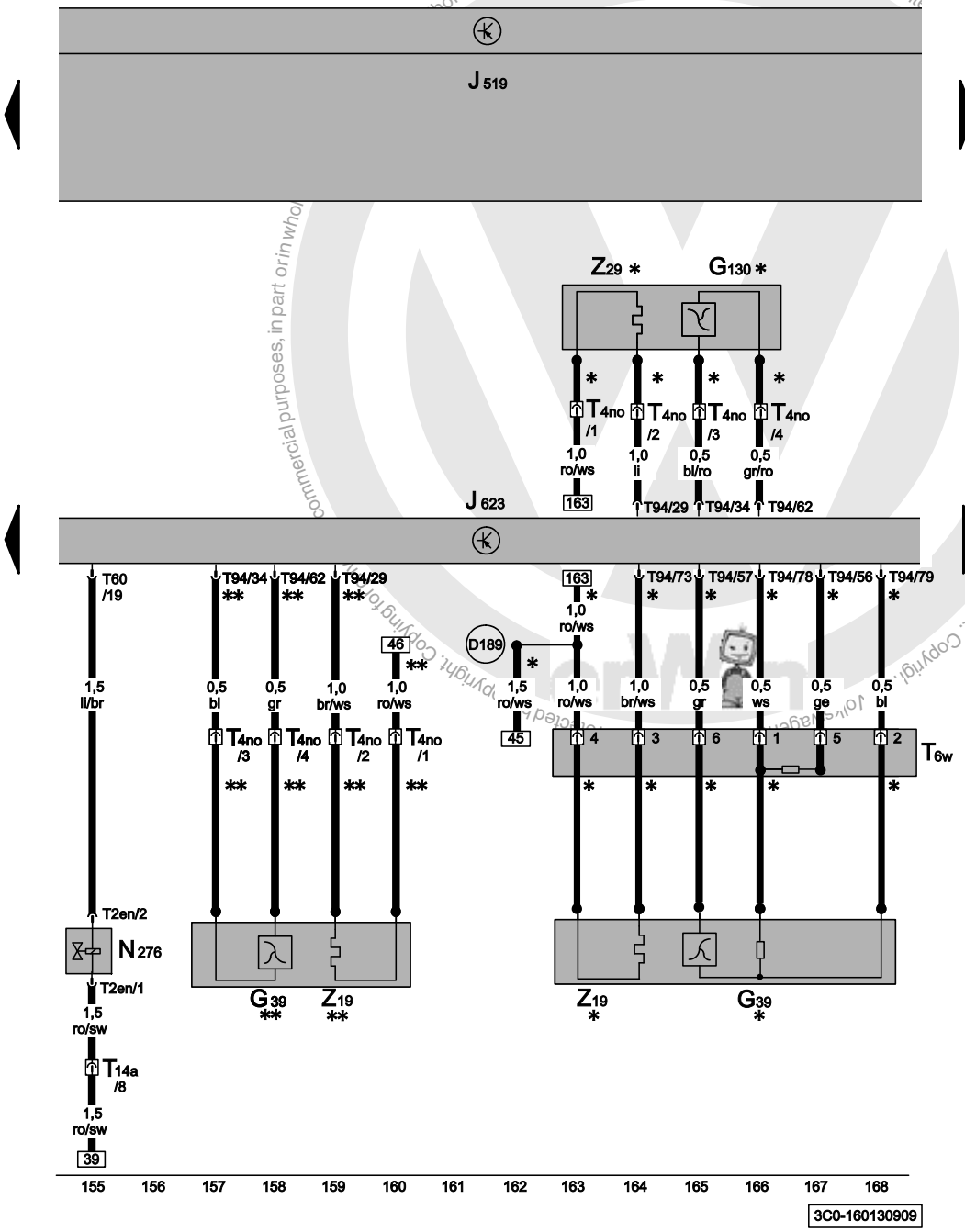


Engine control unit, charge pressure control solenoid valve, turbocharger air recirculation valve, continued coolant circulation relay, fuel system diagnostic pump

J151	Continued coolant circulation relay
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N249	Turbocharger air recirculation valve
N428	Valve for oil pressure control
T2at	2-pin connector, black
T2ck	2-pin connector
T2hb	2-pin connector, black
T2kd	2-pin connector
T2ll	2-pin connector
T3af	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
V51	Continued coolant circulation pump
V144	Fuel system diagnostic pump
647	Earth point 3, on bulkhead
D180	Connection (87a), in engine compartment wiring harness
D182	Connection 3 (87a), in engine compartment wiring harness
*	Only models with USA equipment
**	Only models with engine codes CDAA, CDAB, CCZA

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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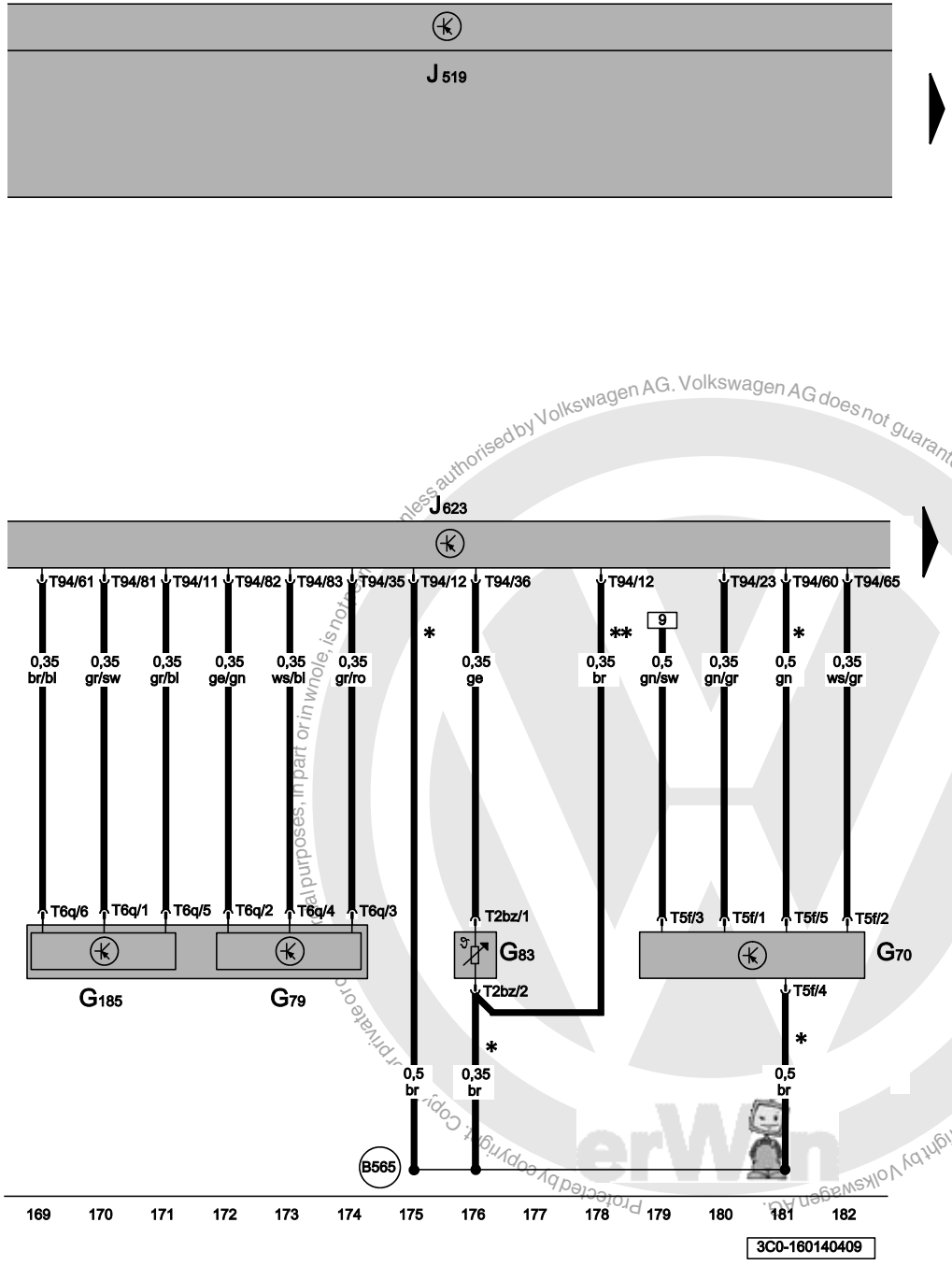


Engine control unit, Lambda probe, Lambda probe after catalytic converter, Lambda probe heater, fuel pressure regulating valve

G39	Lambda probe
G130	Lambda probe after catalytic converter
J519	Onboard supply control unit
J623	Engine control unit
N276	Fuel pressure regulating valve
T2en	2-pin connector
T4no	4-pin connector
T6w	6-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
D189	Connection (87a) in engine prewiring harness
*	Only models with engine code CCTA
**	Only models with engine codes BZB, CAWB, CGYA, CCZA

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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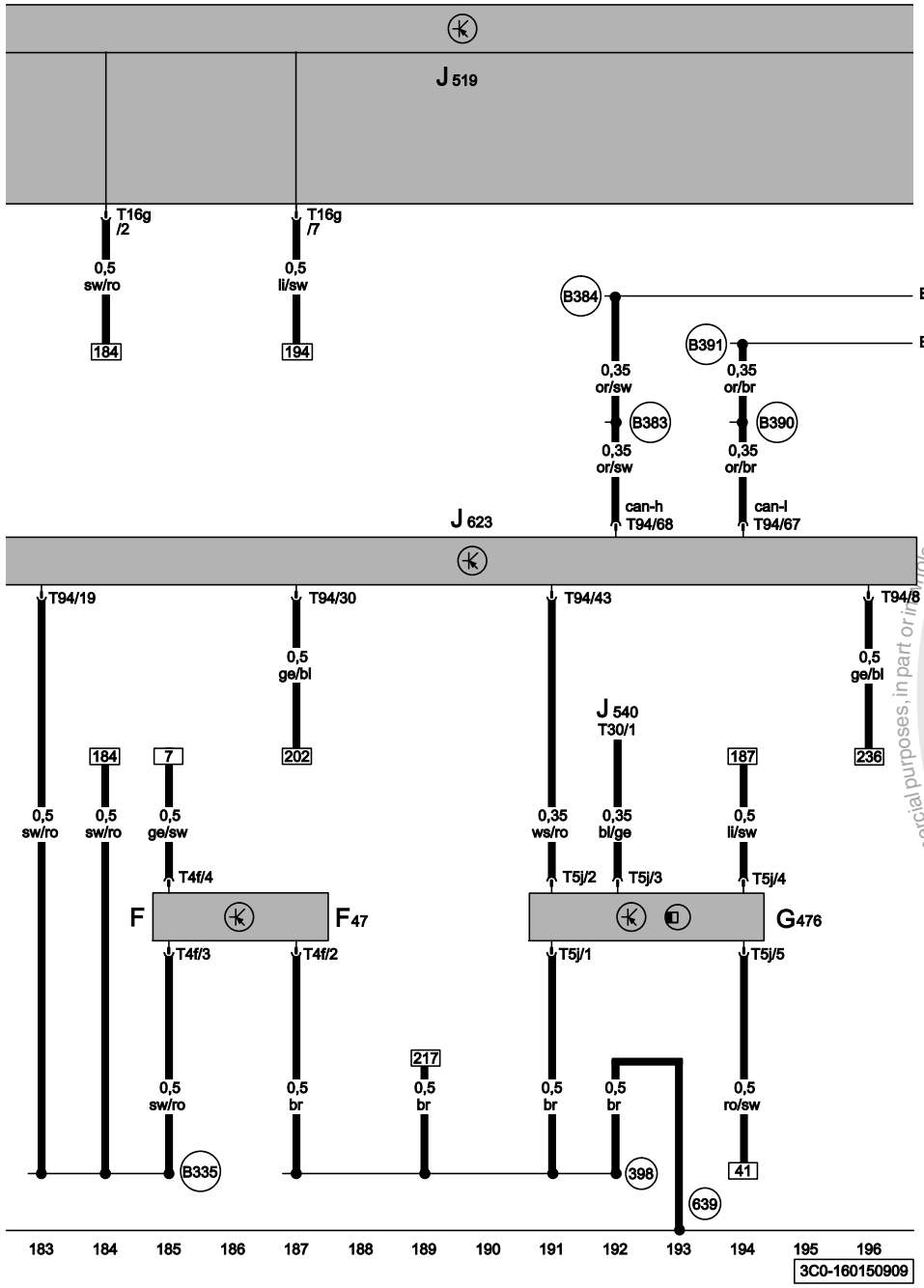


Engine control unit, air mass meter, accelerator position sender, radiator outlet coolant temperature sender

G70	Air mass meter
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector
T5f	5-pin connector
T6q	6-pin connector
T94	94-pin connector
B565	Connection 32, in main wiring harness
*	Not models with emissions standard EU5
**	Only models with emissions standard EU5

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Engine control unit, clutch position sender, brake light switch, brake pedal switch

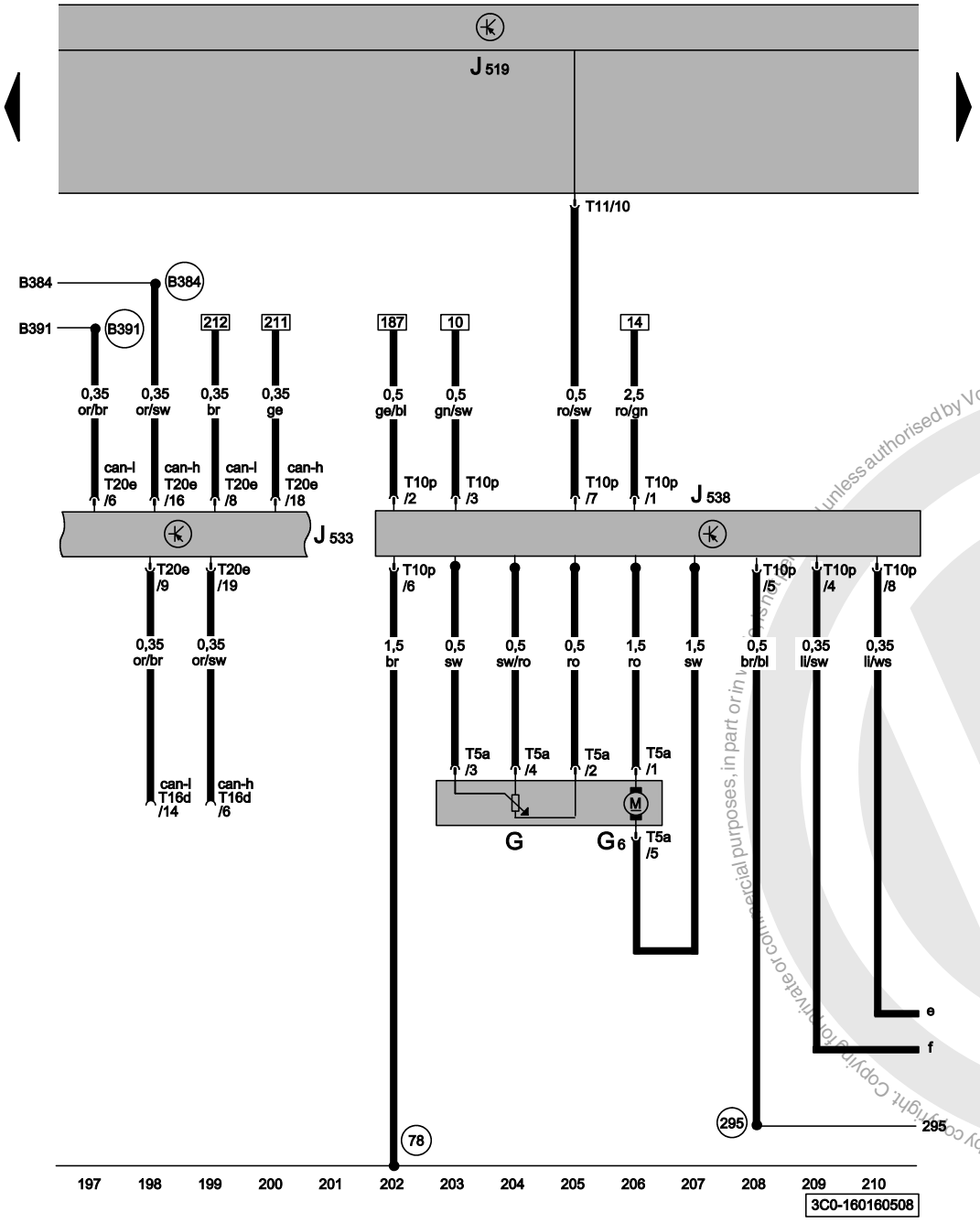
F	Brake light switch
F47	Brake pedal switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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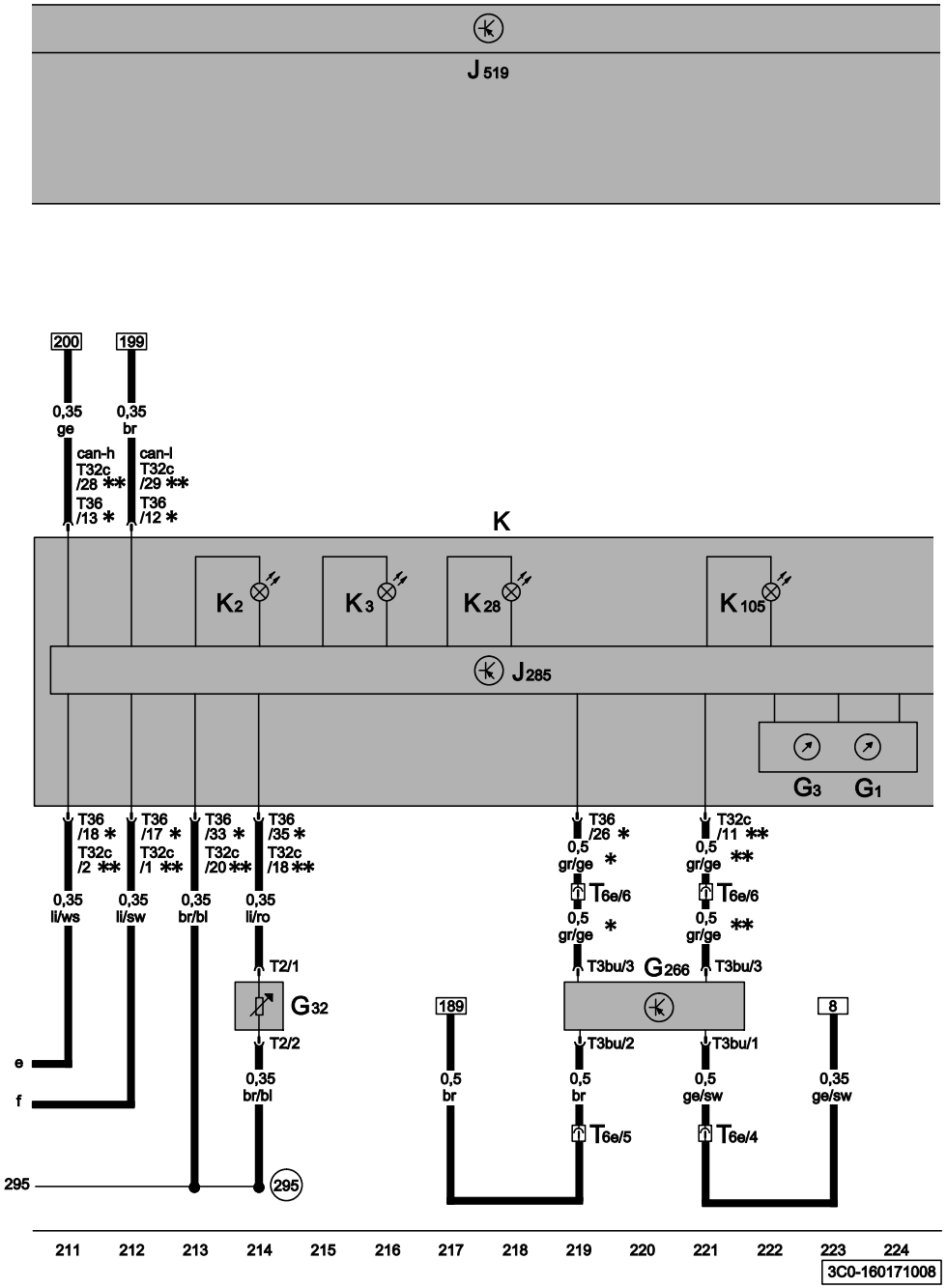
Data bus diagnosis interface, fuel pump control unit, fuel gauge sender, fuel system pressurisation pump, self-diagnosis connection

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J538	Fuel pump control unit
T5a	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness



ws = white
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gn = green
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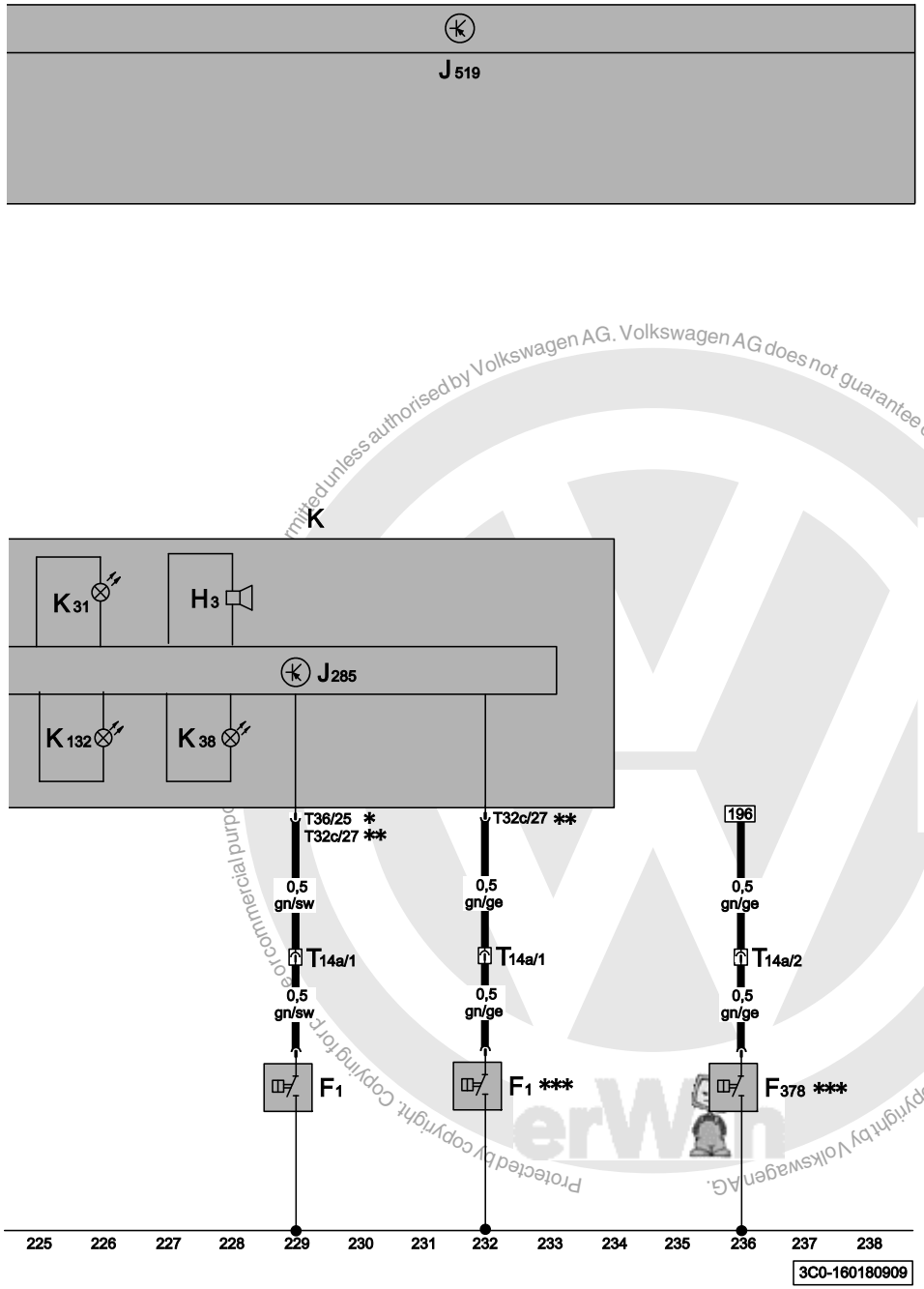


Dash panel insert, coolant shortage indicator sender, oil level and oil temperature sender

G1	Fuel gauge
G3	Coolant temperature gauge
G32	Coolant shortage indicator sender
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K105	Reserve fuel warning lamp
T2	2-pin connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T32c	32-pin connector
T36	36-pin connector
(295)	Earth connection 10, in interior wiring harness
*	Applicable to October 2008
**	Applicable from November 2008

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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Dash panel insert, oil pressure switch

F1	Oil pressure switch
F378	Oil pressure switch for reduced oil pressure
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T14a	14-pin connector, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
*	Applicable to October 2008
**	Applicable from November 2008
***	Only models with engine codes CDAA, CDAB, CCZA

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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1.6 l/75 kW - Motronic, engine code BSE, BSF

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

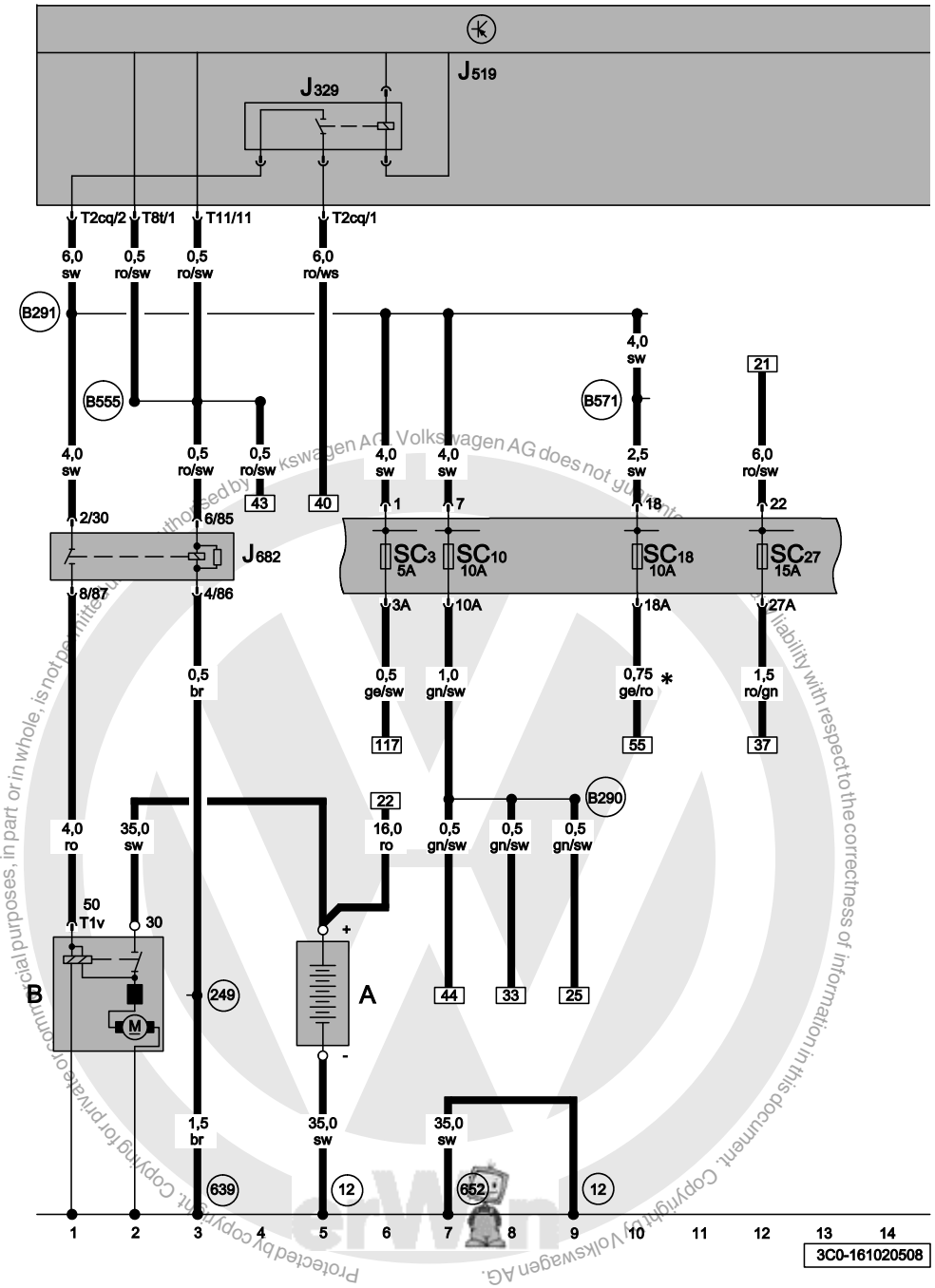
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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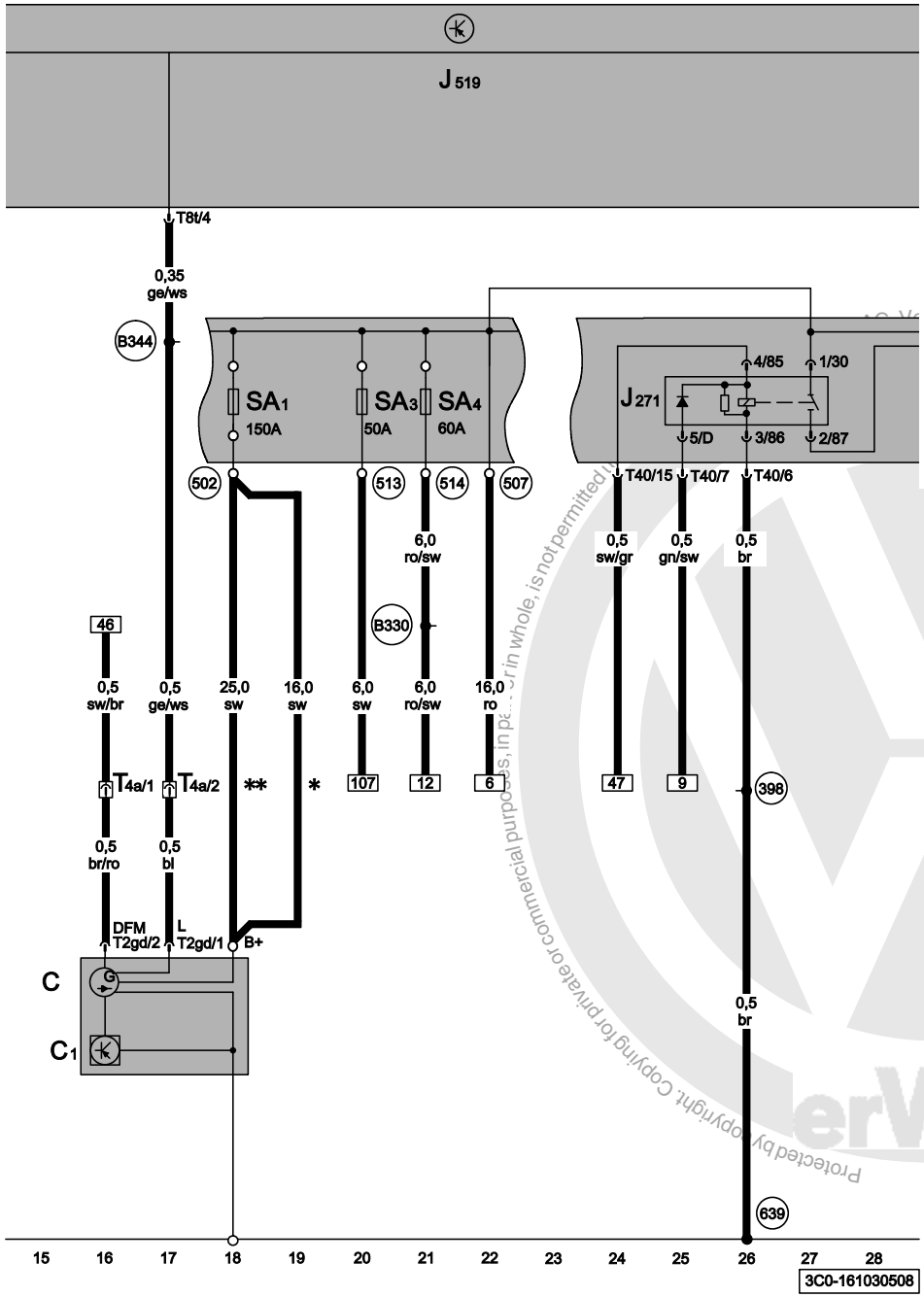


Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models with engine code BSE

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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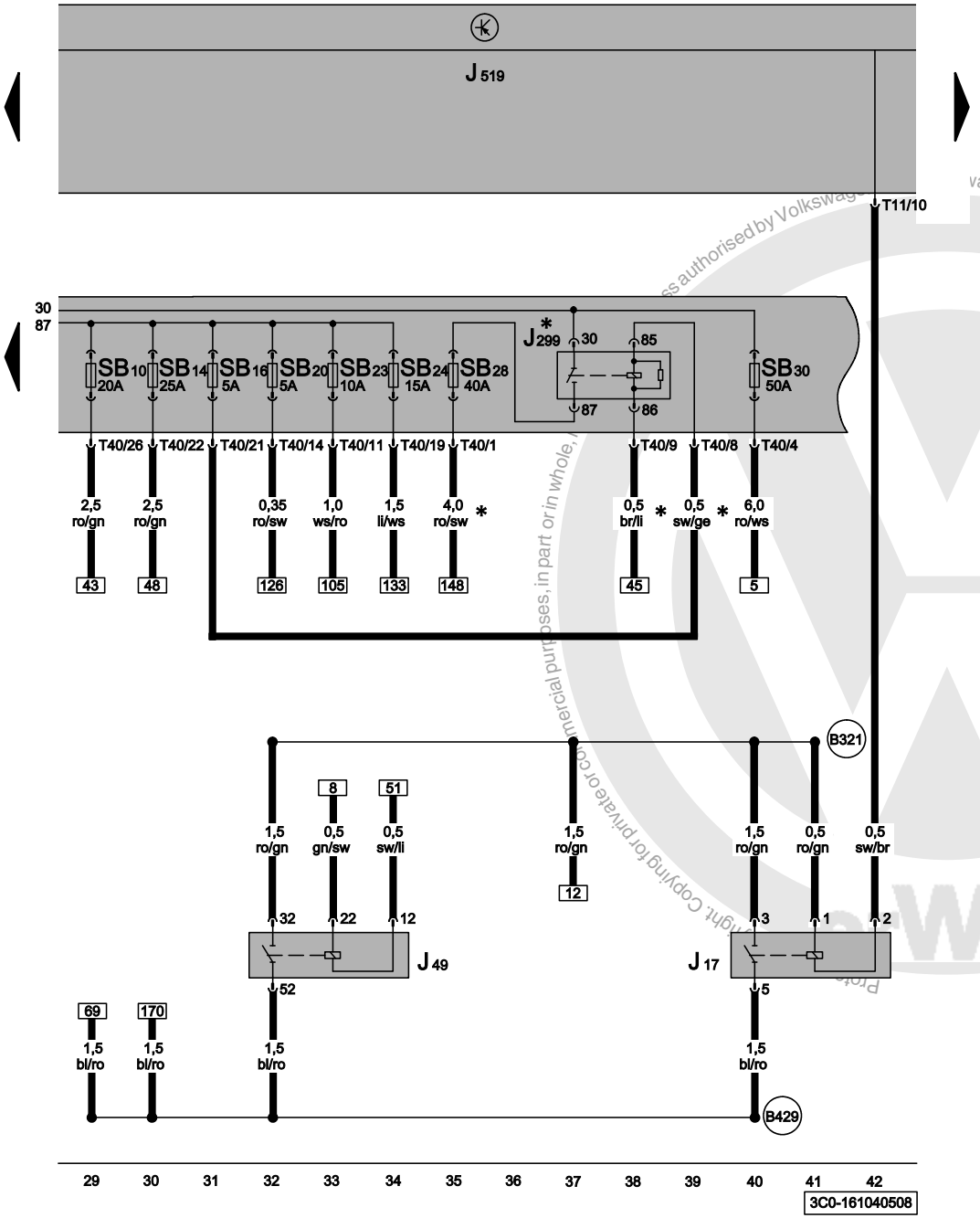


Alternator, Motronic current supply relay, fuses SA

C	Alternator
C1	Voltage regulator
J271	Motronic current supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
398	Earth connection 33, in main wiring harness
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
639	Earth point, left A-pillar
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Models with 110 A alternator
**	Models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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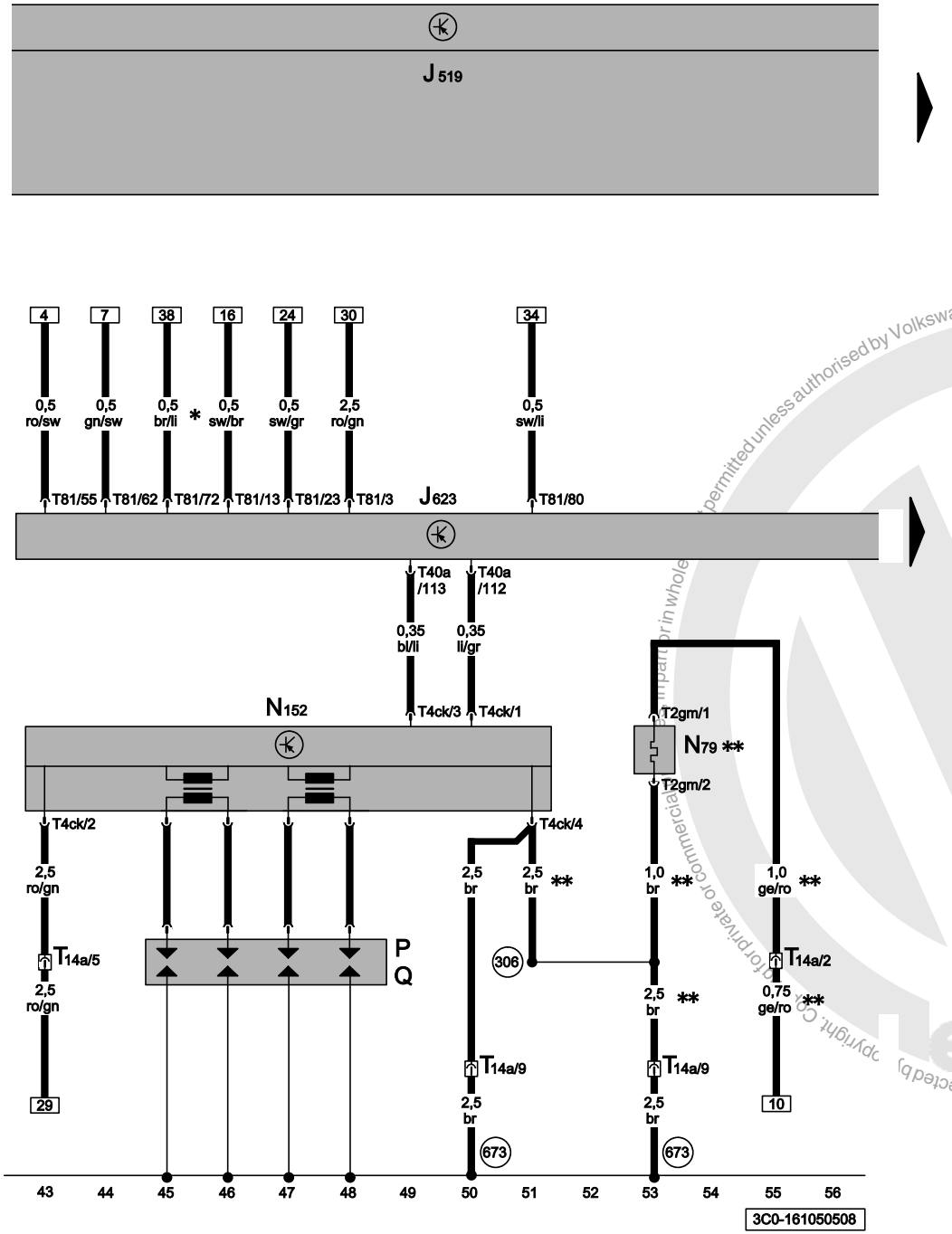


Fuel pump relay, secondary air pump relay, SB-fuses

J17	Fuel pump relay, on relay carrier on left under dash panel (449)
J49	Electric fuel pump 2 relay, on relay carrier on left under dash panel (449)
J299	Secondary air pump relay, on E-box, on left in engine compartment (100)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B321	Connection 7 (30a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only models with engine code BSE

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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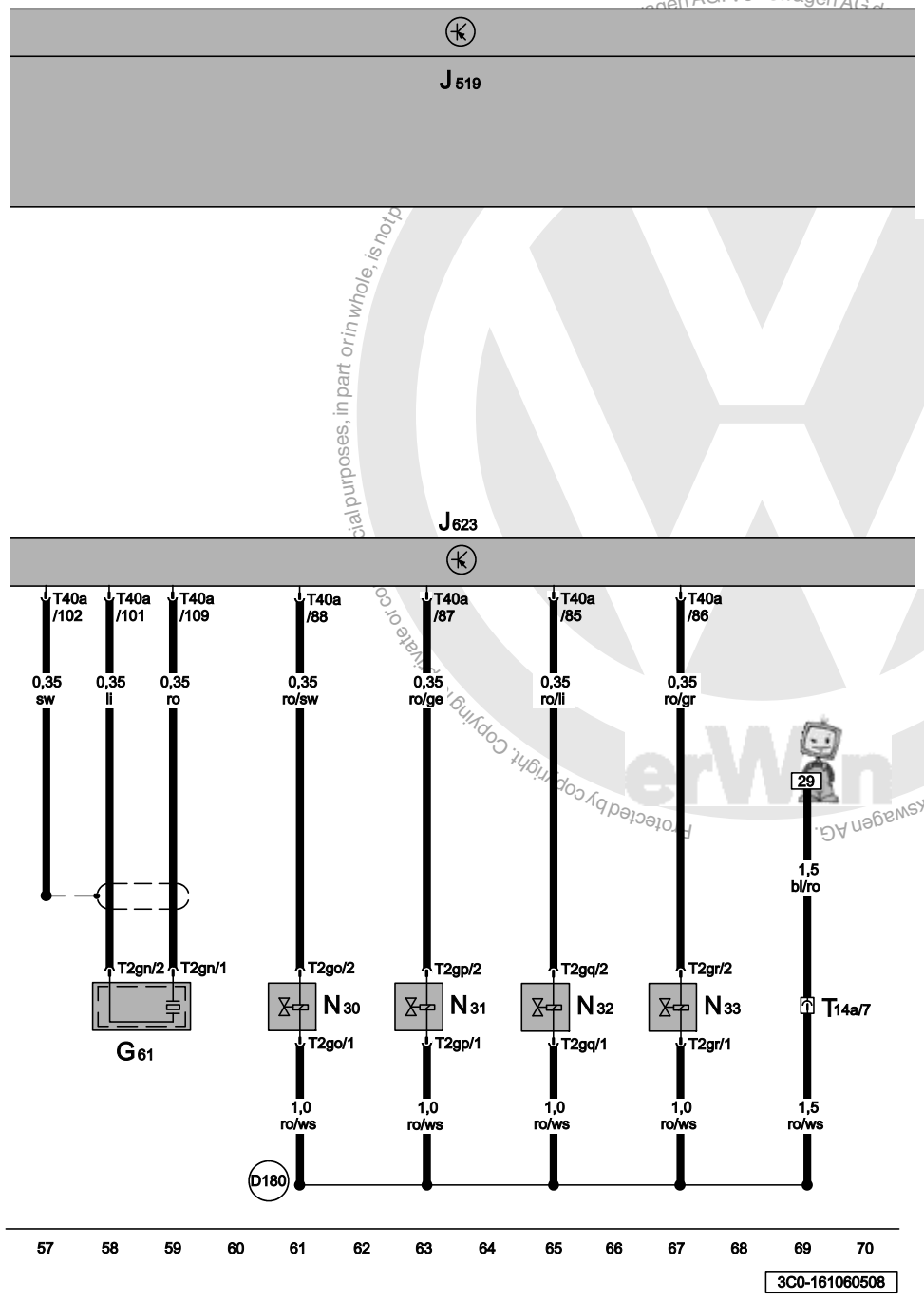


Engine control unit, ignition transformer, spark plugs, spark plug connectors, crankcase breather heater element

J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
N152	Ignition transformer
P	Spark plug connector
Q	Spark plug
T2gm	2-pin connector
T4ck	4-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40a	40-pin connector
T81	81-pin connector
(306)	Earth connection (ignition coils), in engine prewiring harness
(673)	Earth point 3, on front of left longitudinal member
*	Only models with engine code BSE
**	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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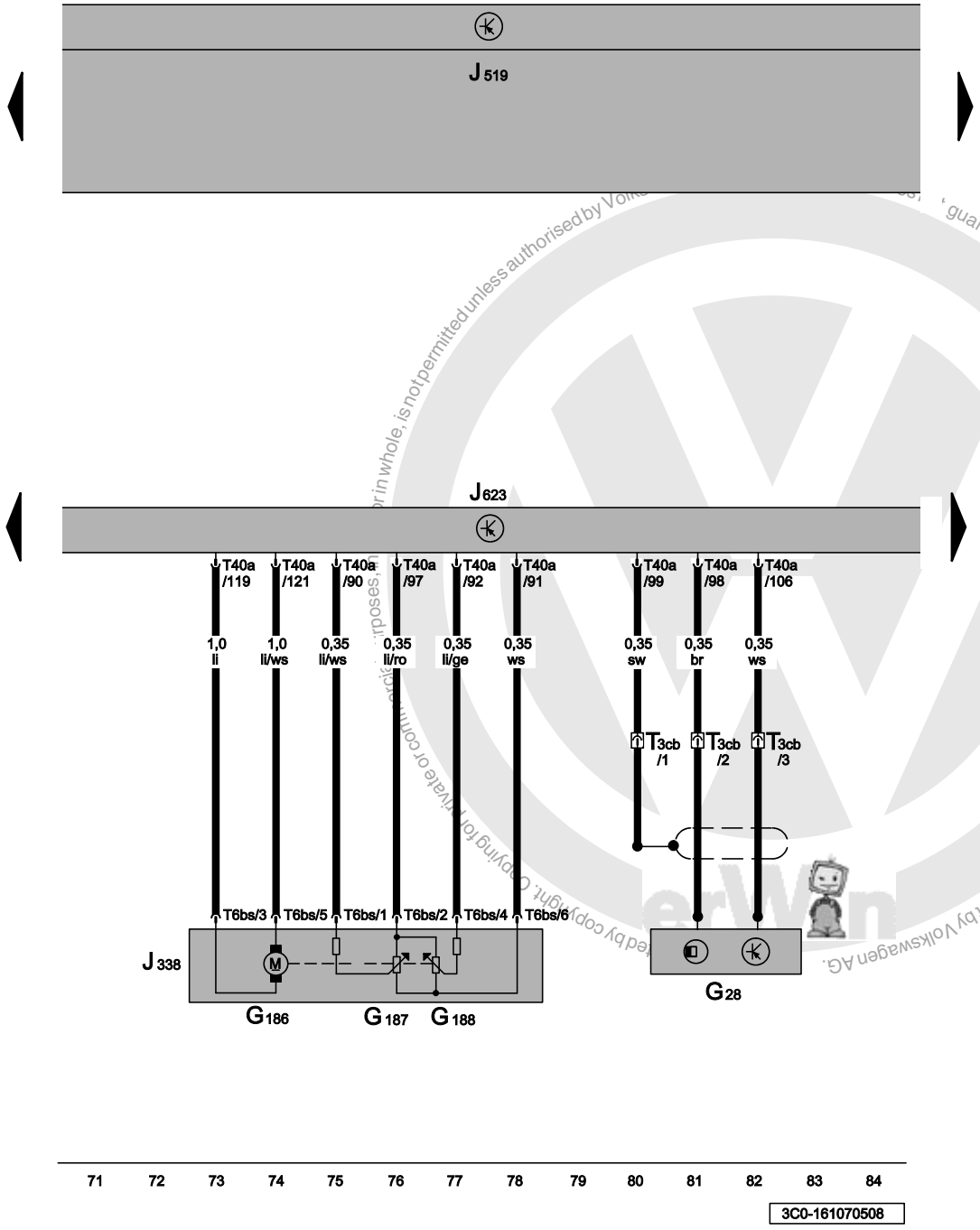


Engine control unit, knock sensor 1, injectors for cylinders 1 to 4

G61	Knock sensor 1
J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T2gn	2-pin connector
T2go	2-pin connector
T2gp	2-pin connector
T2gq	2-pin connector
T2gr	2-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40a	40-pin connector
D180	Connection (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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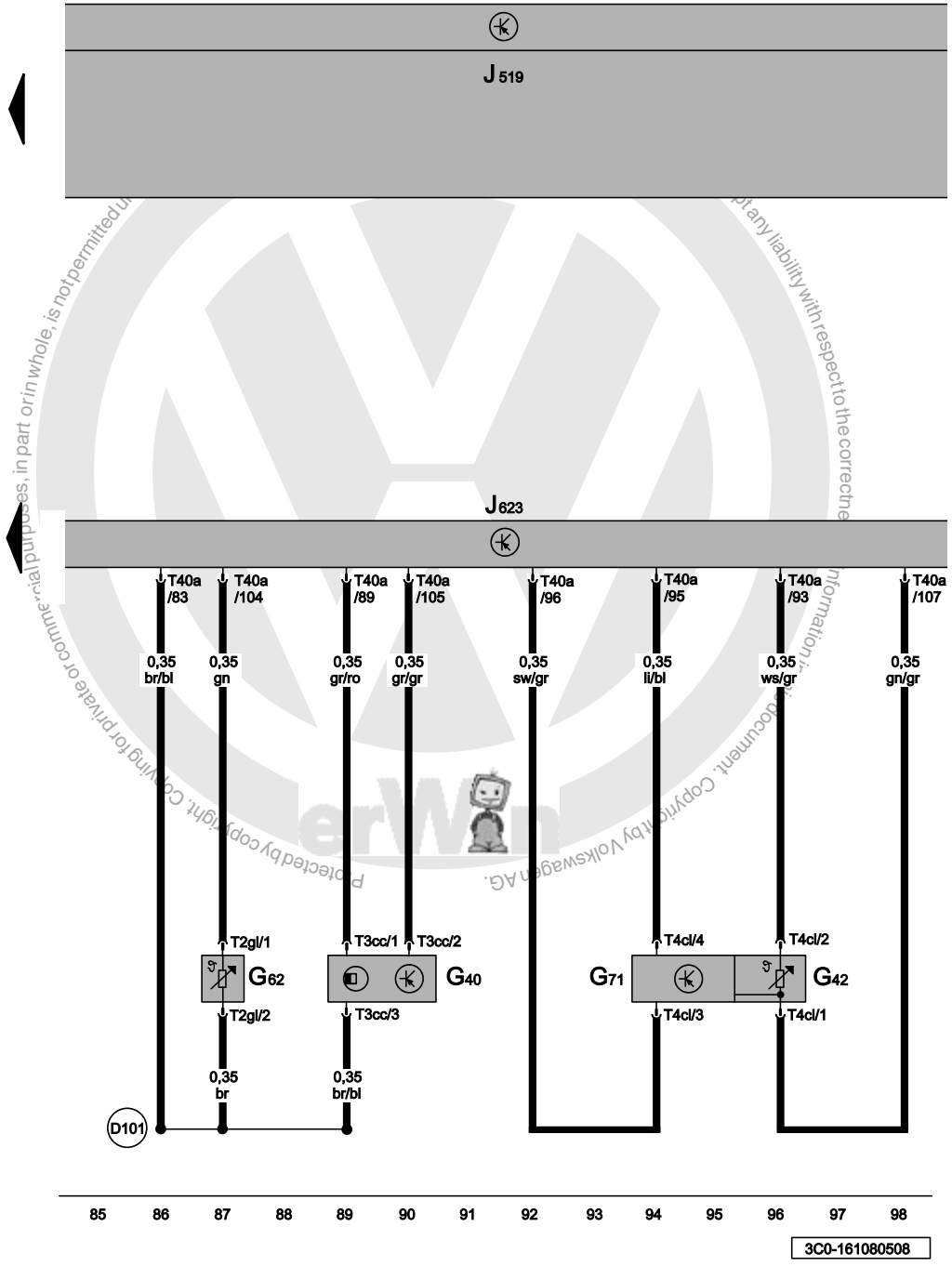


Engine control unit, throttle valve module, engine speed sender

G28	Engine speed sender
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
T3cb	3-pin connector, grey
T6bs	6-pin connector, black
T40a	40-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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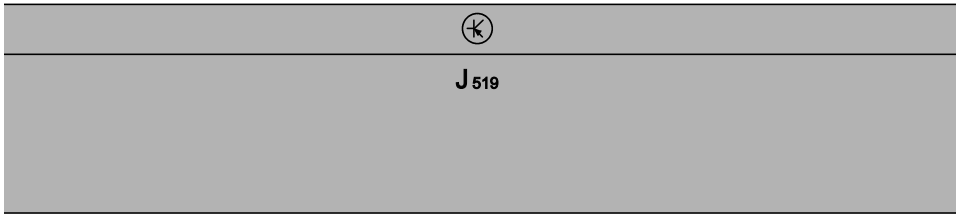


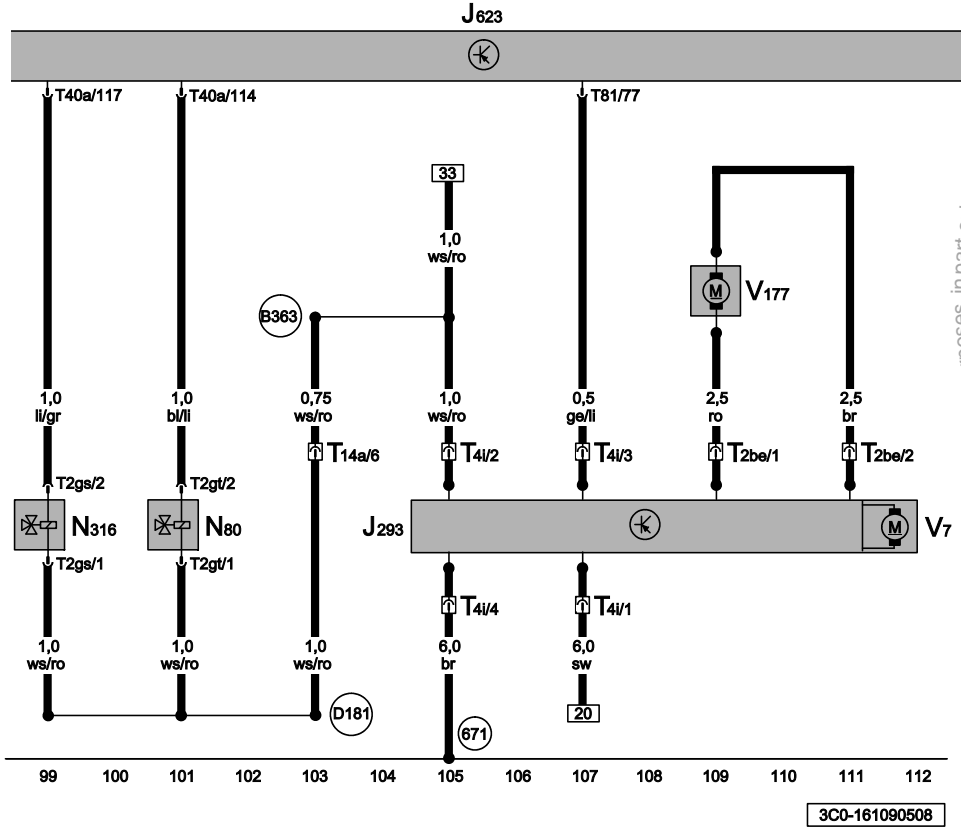
Engine control unit, Hall sender, intake manifold pressure sender, intake air temperature sender, coolant temperature sender

G40	Hall sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G71	Intake manifold pressure sender
J519	Onboard supply control unit
J623	Engine control unit
T2gl	2-pin connector
T3cc	3-pin connector
T4cl	4-pin connector
T40a	40-pin connector
D101	Connection 1, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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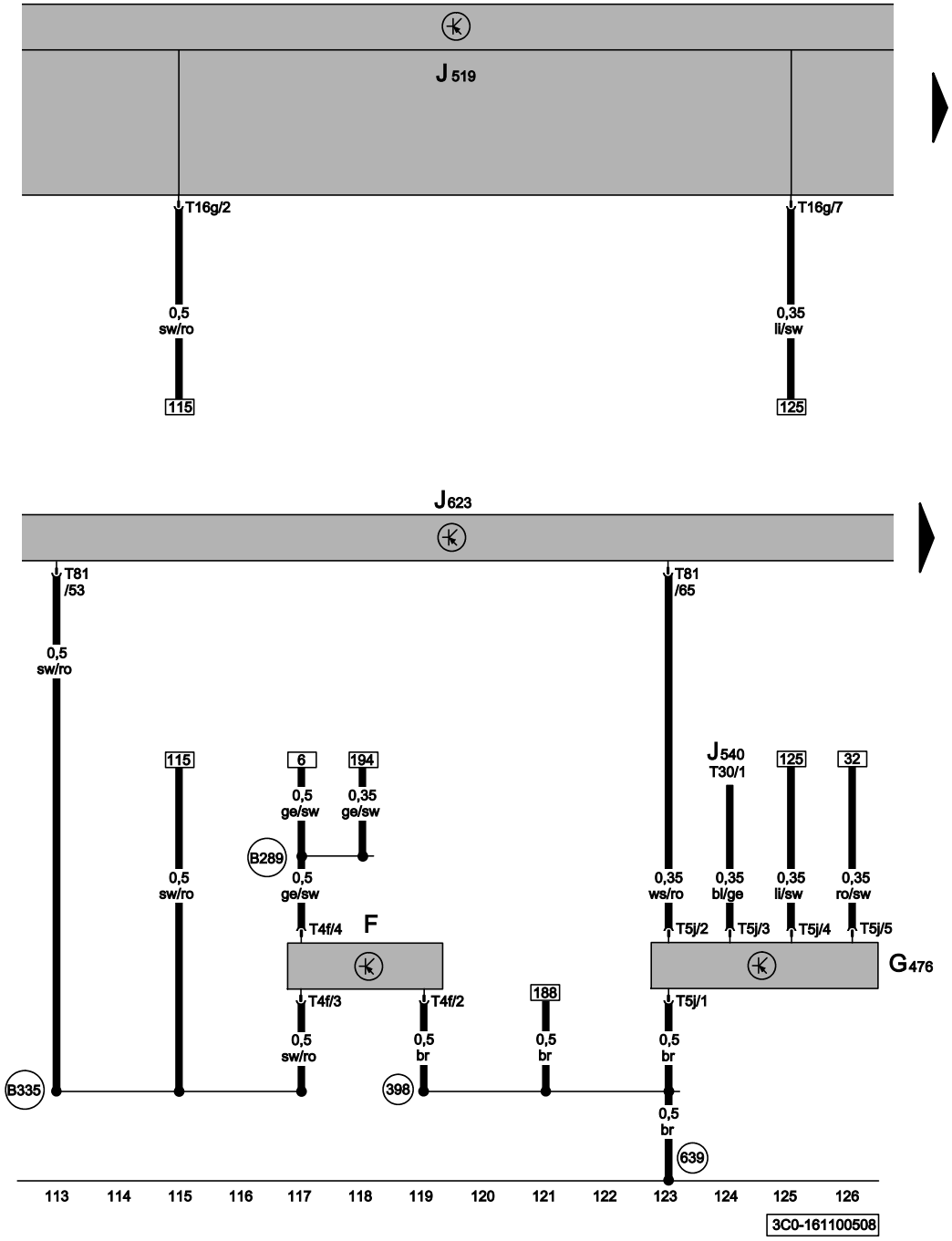


Engine control unit, radiator fan control unit, activated charcoal filter system solenoid valve 1, intake manifold flap valve, radiator fan

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N80	Activated charcoal filter solenoid valve 1
N316	Intake manifold flap valve
T2be	2-pin connector, on lock carrier
T2gs	2-pin connector
T2gt	2-pin connector
T4i	4-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40a	40-pin connector
T81	81-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B363	Connection 14 (87a), in main wiring harness
D181	Connection 2 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Engine control unit, brake light switch, clutch position sender, onboard supply control unit, control unit for electromechanical parking brake

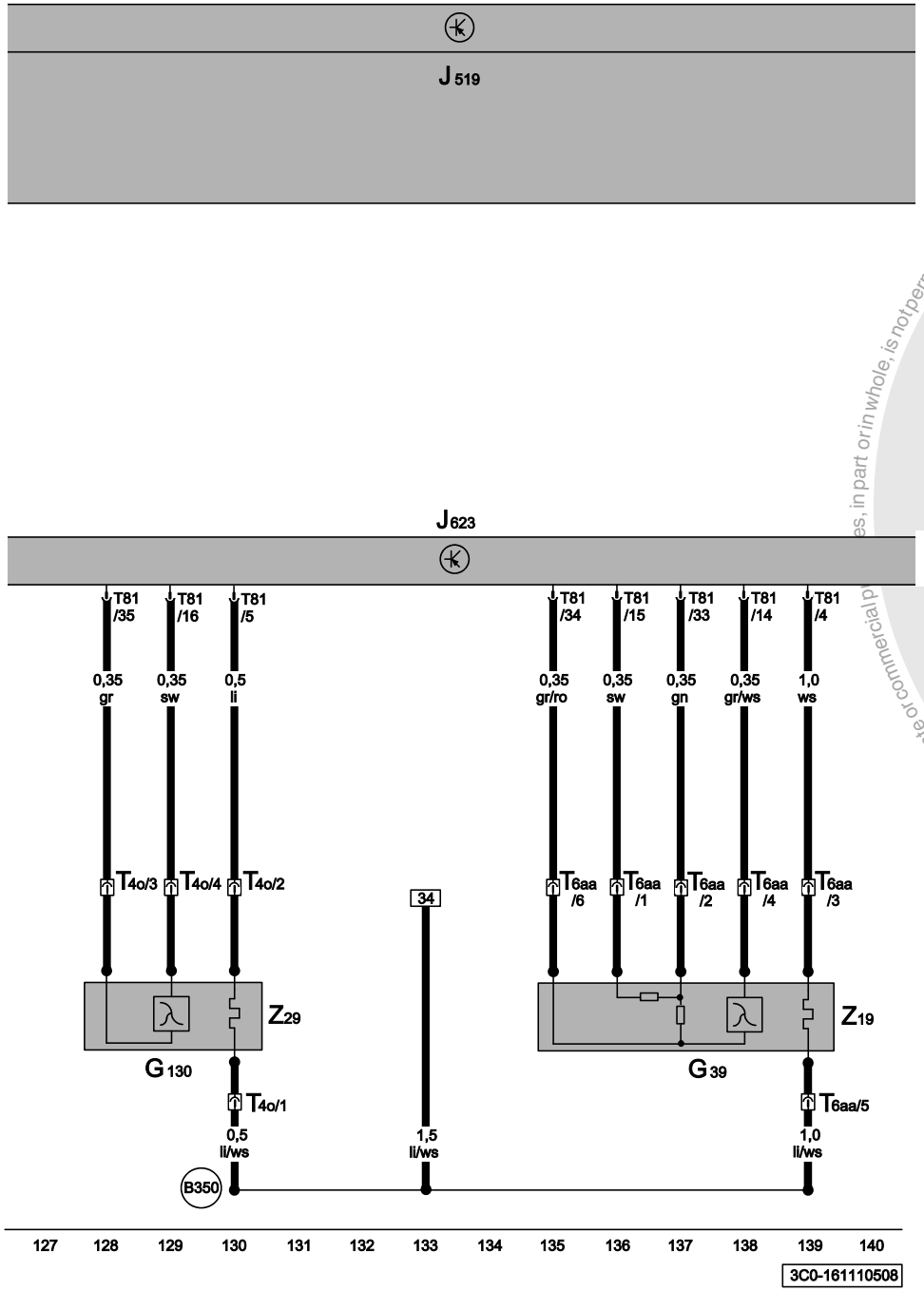
F	Brake light switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T30	30-pin connector
T81	81-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B289	Connection 13 (15a), in main wiring harness
B335	Connection 1 (54), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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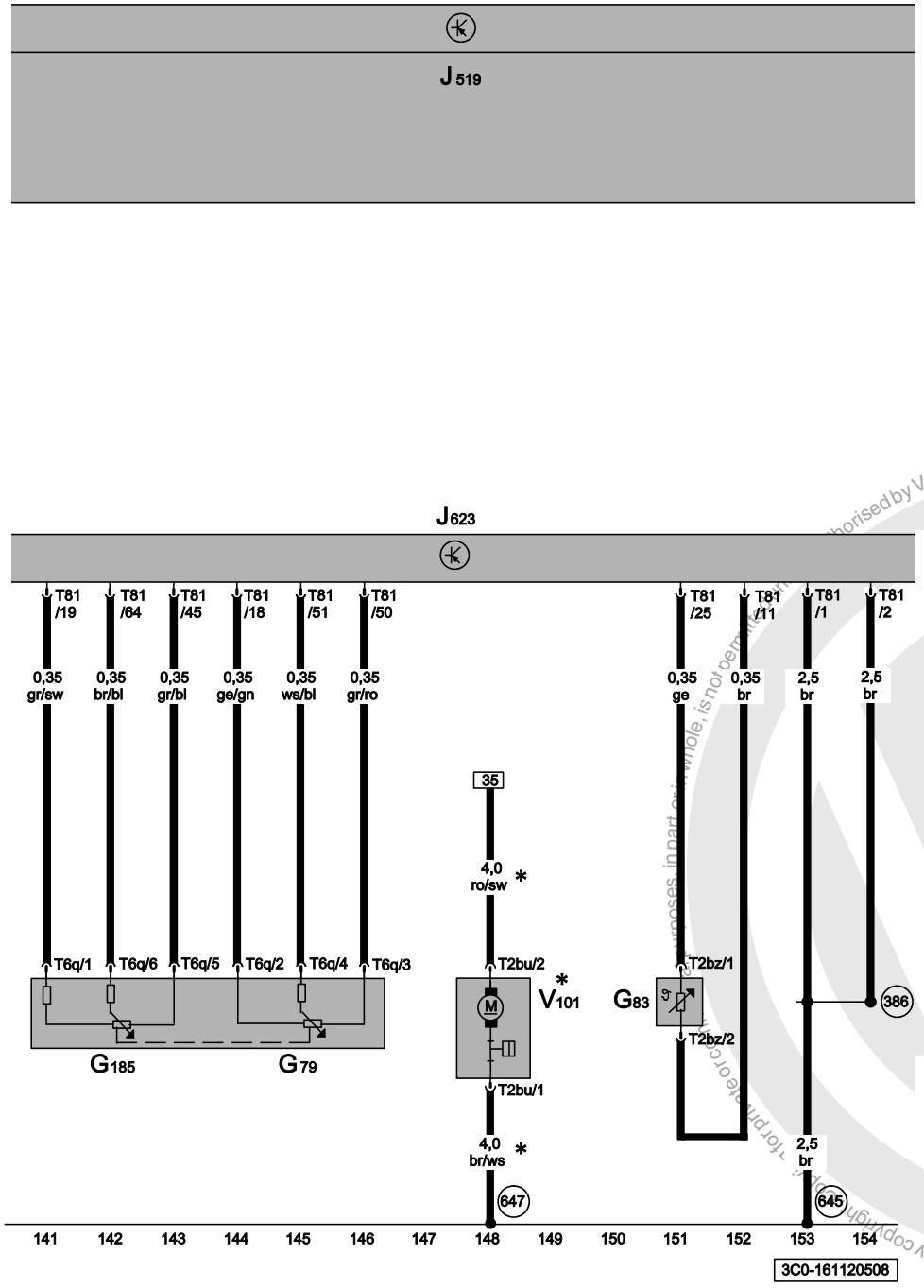
Engine control unit, Lambda probe, Lambda probe heater

G39	Lambda probe
G130	Lambda probe after catalytic converter
J519	Onboard supply control unit
J623	Engine control unit
T4o	4-pin connector, black, coupling point for Lambda probe
T6aa	6-pin connector, black, coupling point for Lambda probe
T81	81-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
B350	Connection 1 (87a), in main wiring harness



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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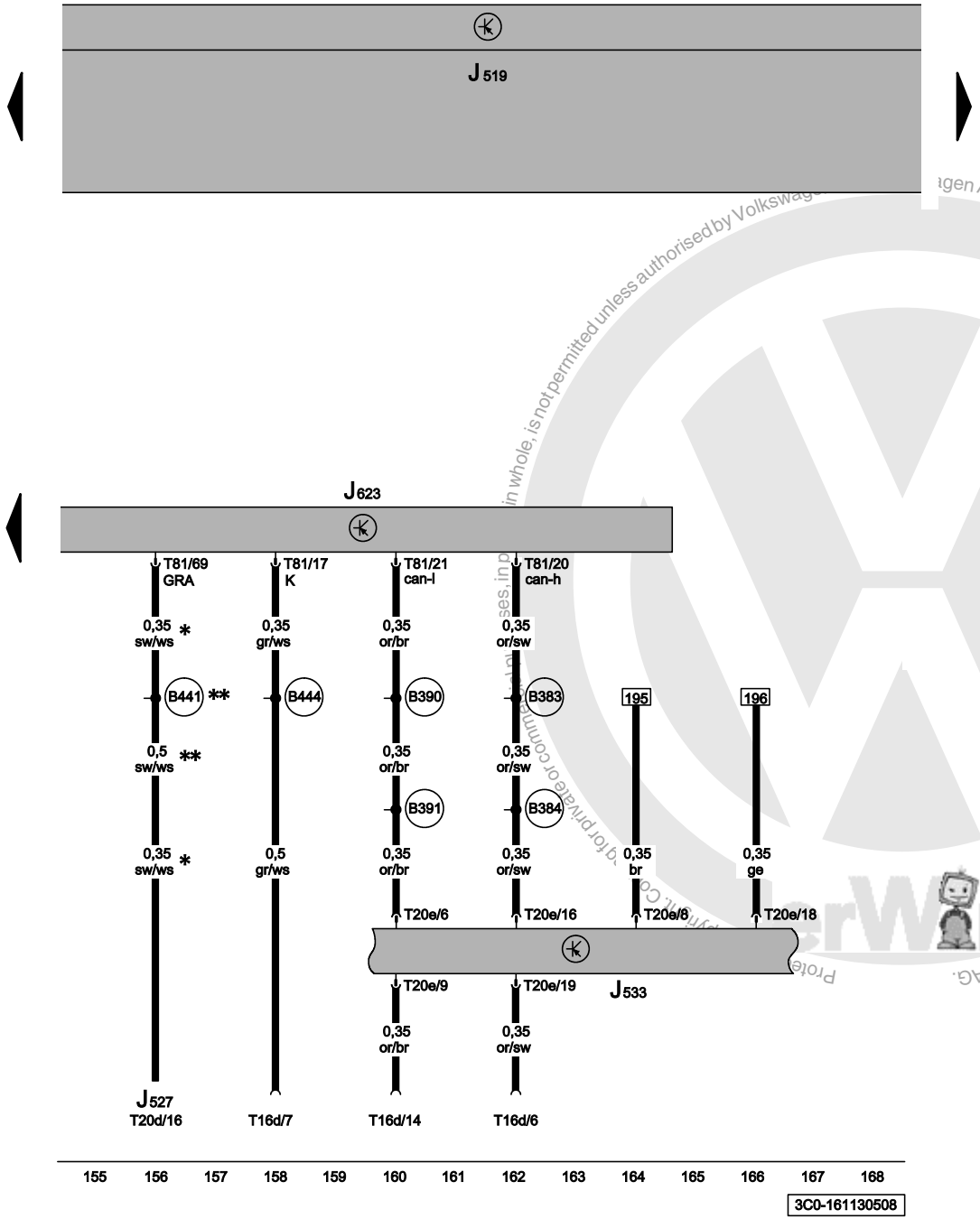


Engine control unit, accelerator position sender, accelerator position sender 2, secondary air pump motor, radiator outlet coolant temperature sender

G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2bu	2-pin connector
T2bz	2-pin connector
T6q	6-pin connector
T81	81-pin connector
V101	Secondary air pump motor
386	Earth connection 21, in main wiring harness
645	Earth point 1, on bulkhead
647	Earth point 3, on bulkhead
*	Only models with engine code BSE

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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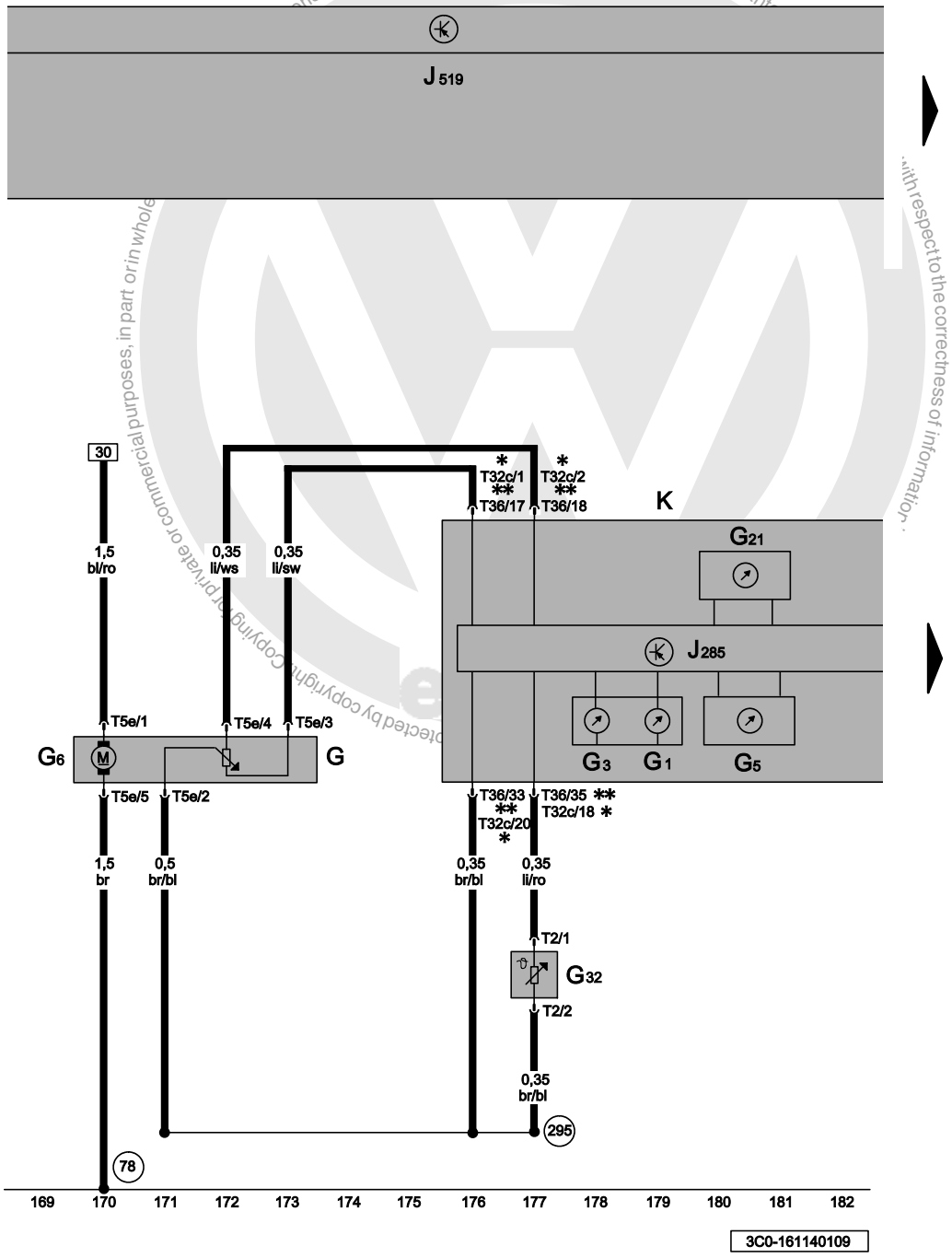
Engine control unit, data bus diagnosis interface, self-diagnosis connection

J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
J623	Engine control unit
T16d	16-pin connector, self-diagnosis connection
T20d	20-pin connector
T20e	20-pin connector
T81	81-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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rs	=	pink

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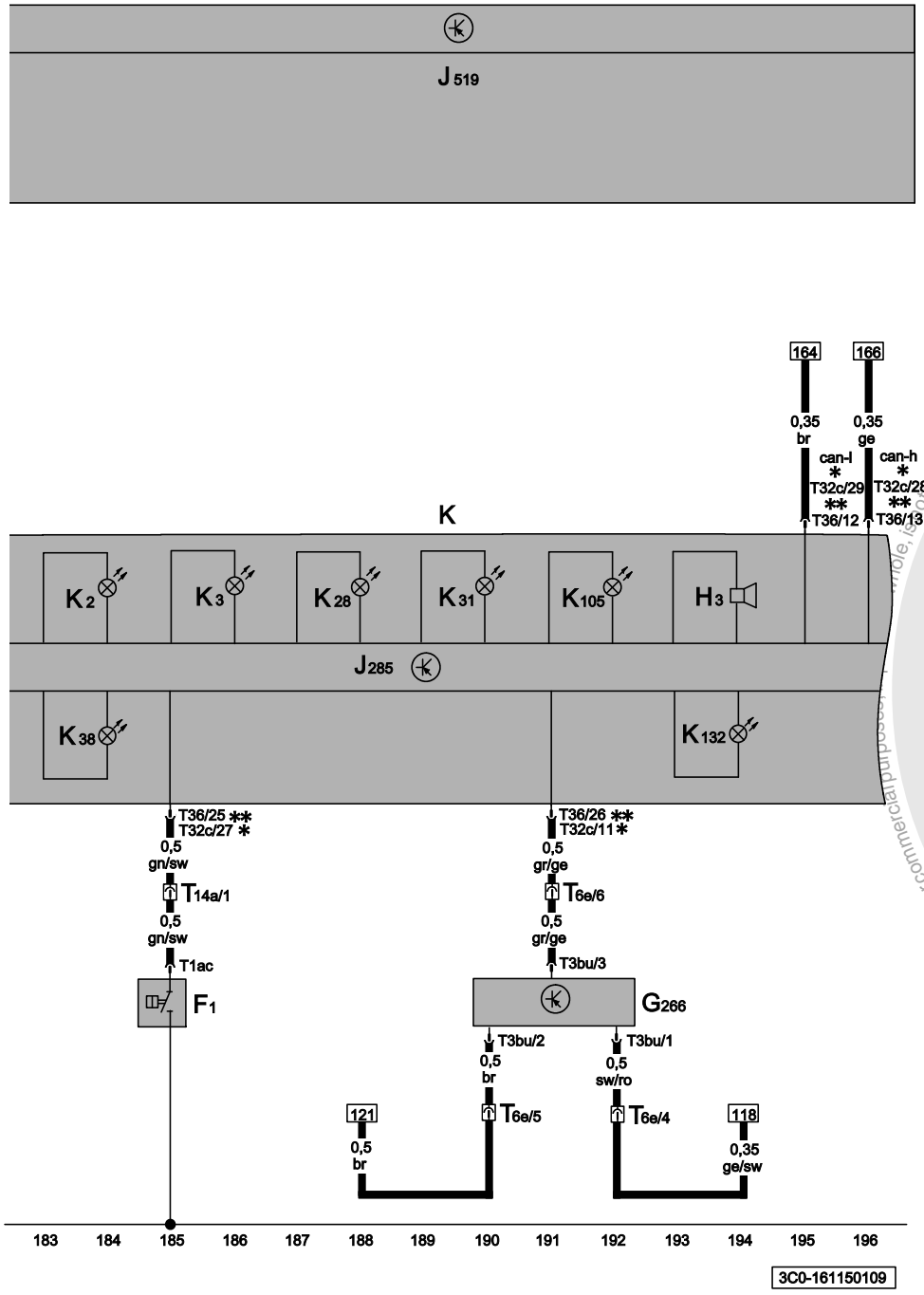
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Dash panel insert, fuel gauge, fuel system pressurisation pump, rev counter, speedometer, fuel gauge sender

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T5e	5-pin connector
T32c	32-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, coupling point for electric steering in engine compartment
T14a	14-pin connector, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
*	Applicable from November 2008
**	Applicable up to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Cigarette lighter and 12 V sockets

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

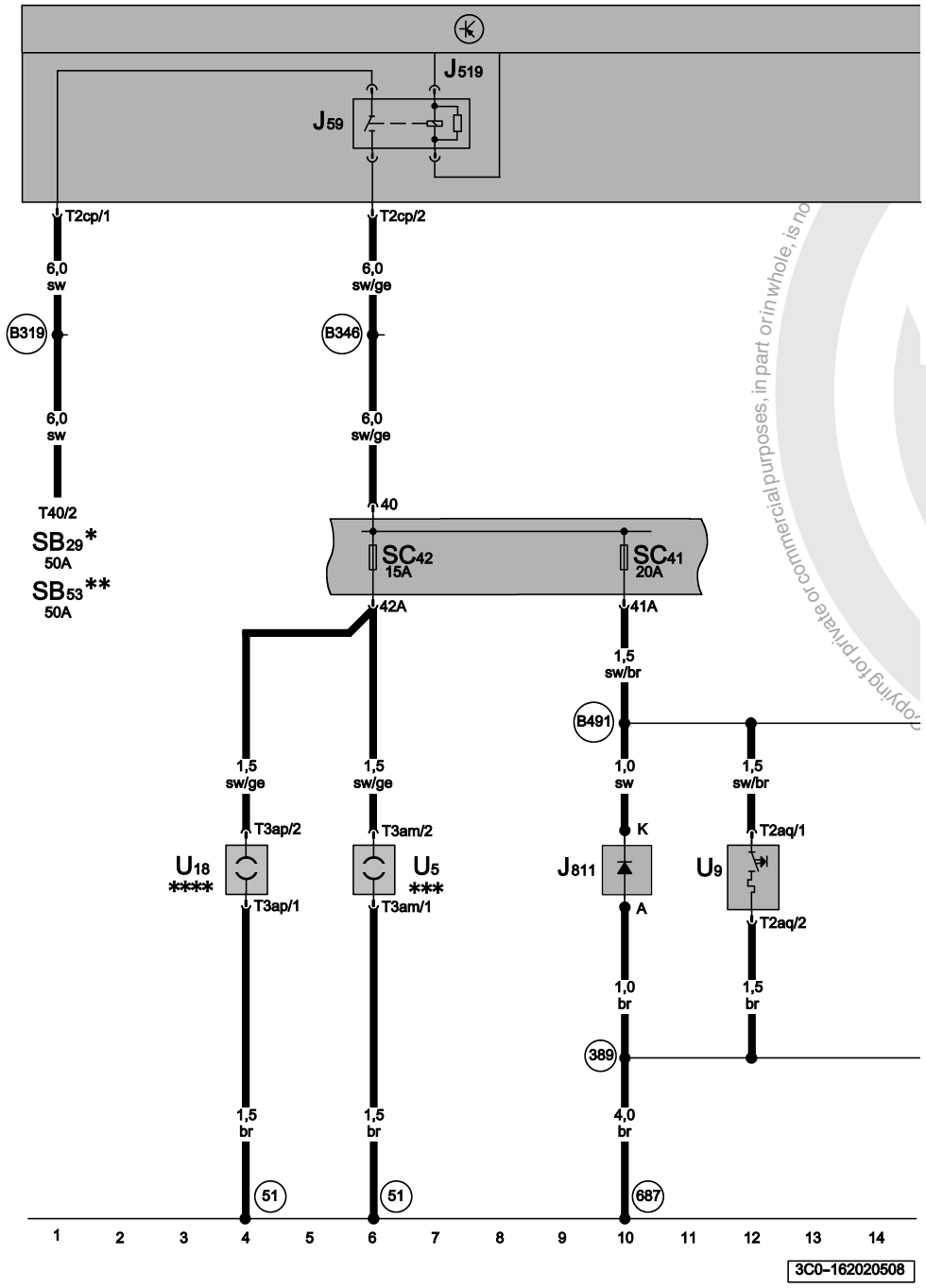
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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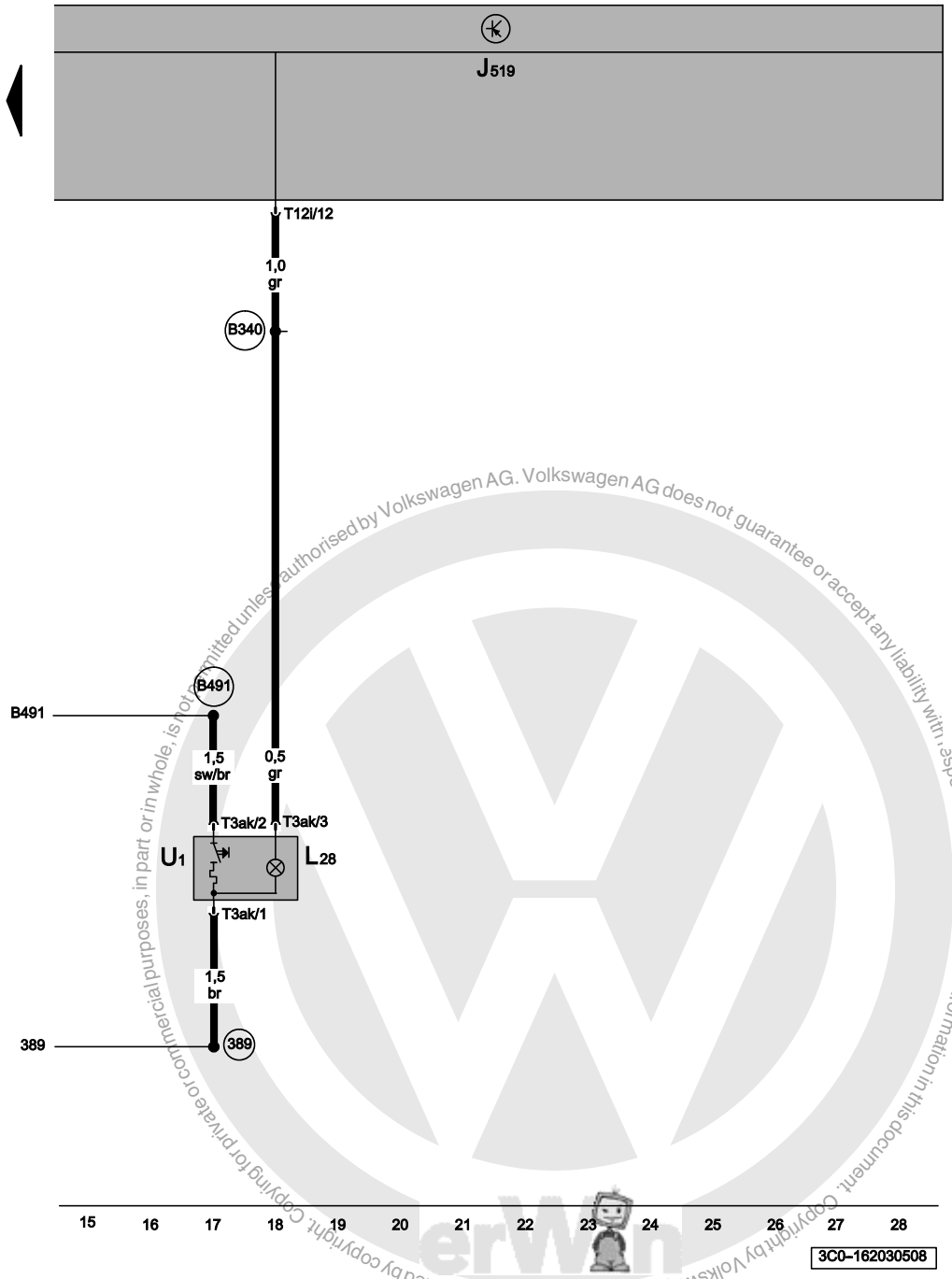


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

12 V sockets, cigarette lighter, blocking diode 2, fuses

J59	X-contact relief relay
J519	Onboard supply control unit
J811	Blocking diode 2
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC41	Fuse 41 on fuse holder C
SC42	Fuse 42 on fuse holder C
T2aq	2-pin connector
T2cp	2-pin connector
T3am	3-pin connector
T3ap	3-pin connector
T40	40-pin connector, on E-box
U5	12 V socket
U9	Rear cigarette lighter
U18	12 V socket 2
51	Earth point, on right in luggage compartment
389	Earth connection 24, in main wiring harness
687	Earth point 1, on centre tunnel
B319	Connection 5 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B491	Positive connection (75), in interior wiring harness
*	Only models with E-box Low
**	Only models with E-box High
***	Only saloon
****	Only Variant

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Cigarette lighter, cigarette lighter illumination bulb, onboard supply control unit

J519	Onboard supply control unit
L28	Cigarette lighter illumination bulb
T3ak	3-pin connector
T12i	12-pin connector, black
U1	Cigarette lighter
389	Earth connection 24, in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B491	Positive connection (75), in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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Radio system RCD 310, radio system RCD 510, 8 loudspeaker, no sound system, connection for external audio sources

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth points

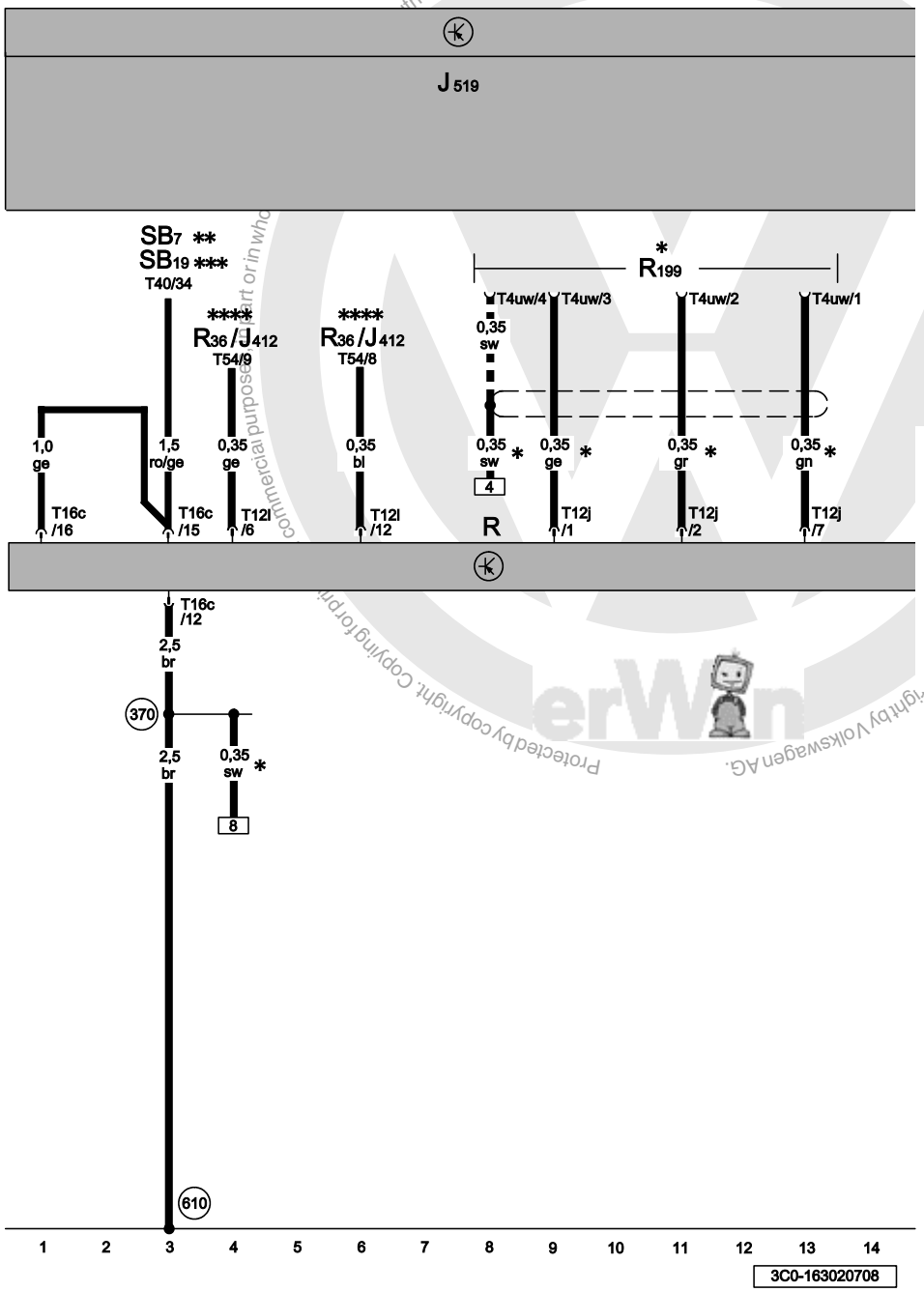
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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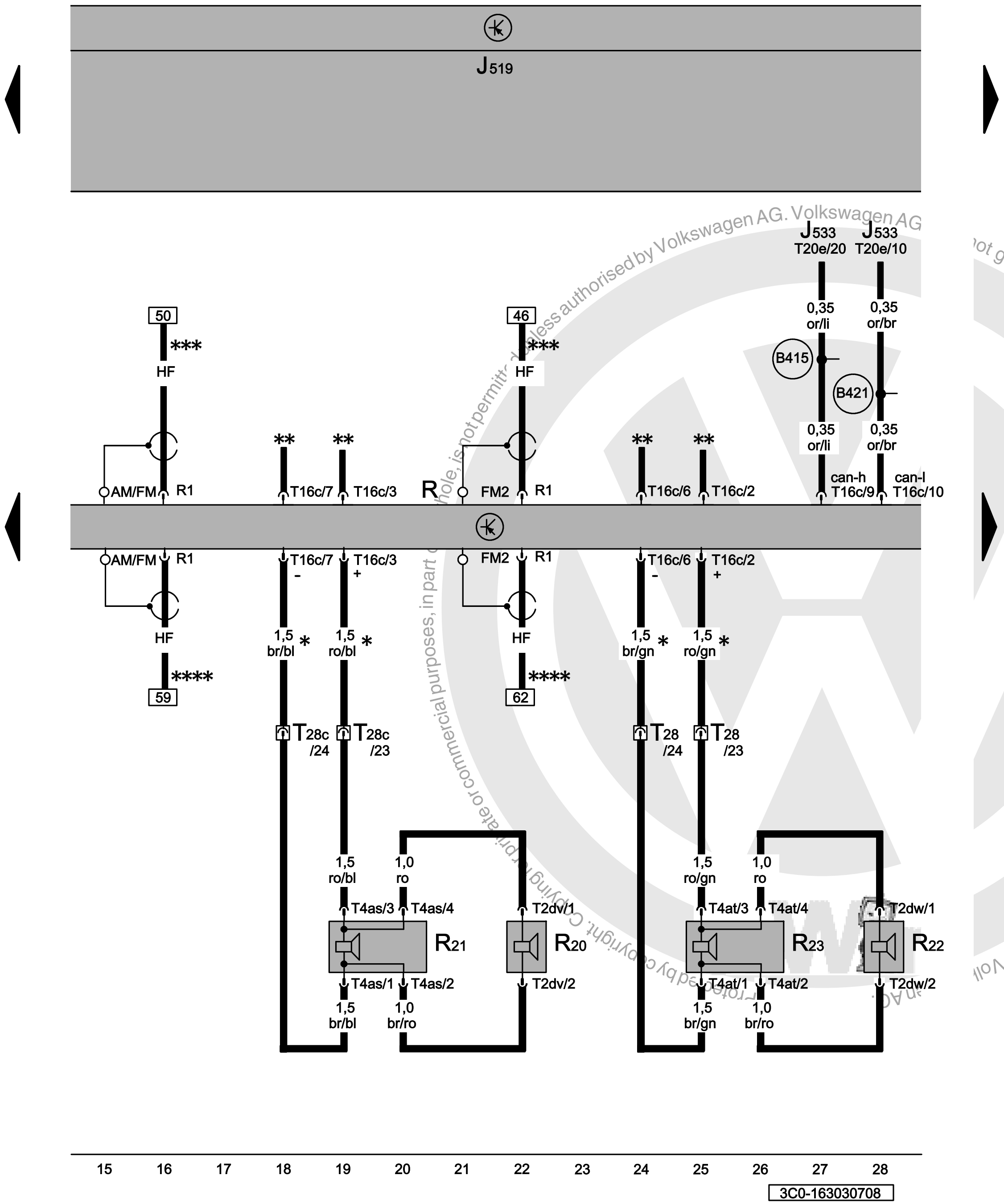


Radio, connection for external audio sources, control unit for mobile telephone operating electronics

J412	Mobile telephone operating electronics control unit
J519	Onboard supply control unit
R	Radio
R36	Telephone transmitter and receiver unit
R199	Connection for external audio sources
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T4uw	4-pin connector, white
T12j	12-pin connector, blue
T12l	12-pin connector, green
T16c	16-pin connector
T40	40-pin connector, on E-box
T54	54-pin connector
(370)	Earth connection 5, in main wiring harness
(610)	Earth point (audio), front below centre console
*	Only models with connection for external audio sources
**	Only models with E-box low
***	Only models with E-box high
****	Only models with telephone/preparation for telephone
---	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

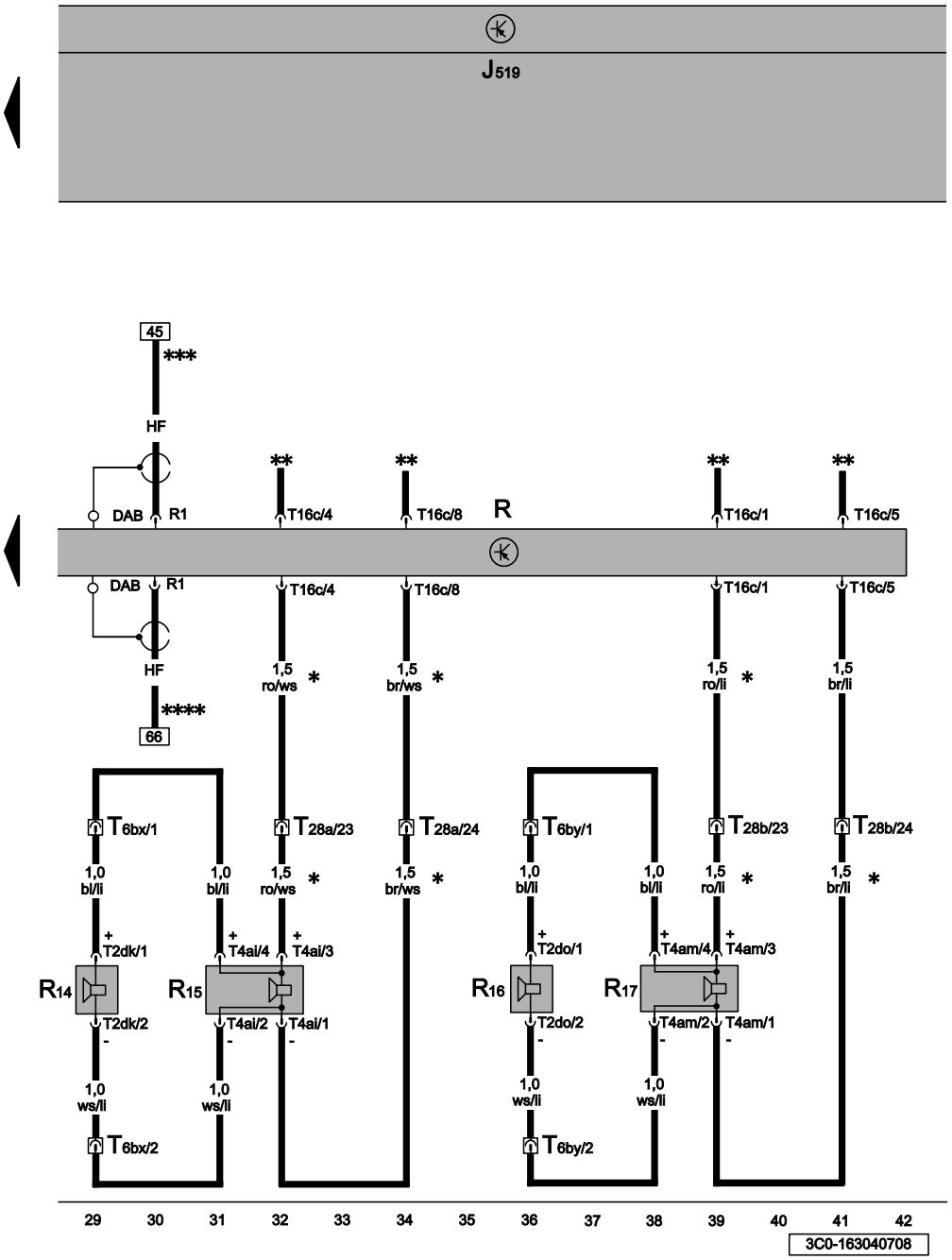
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Radio, front loudspeaker, data bus diagnosis interface

J519	Onboard supply control unit
J533	Data bus diagnostic interface
R	Radio
R1	Aerial connection
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T16c	16-pin connector
T20e	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only models with no Sound system
**	Only models with Sound system ⇒ CFD Sound system
***	Only saloon models
****	Only Variant

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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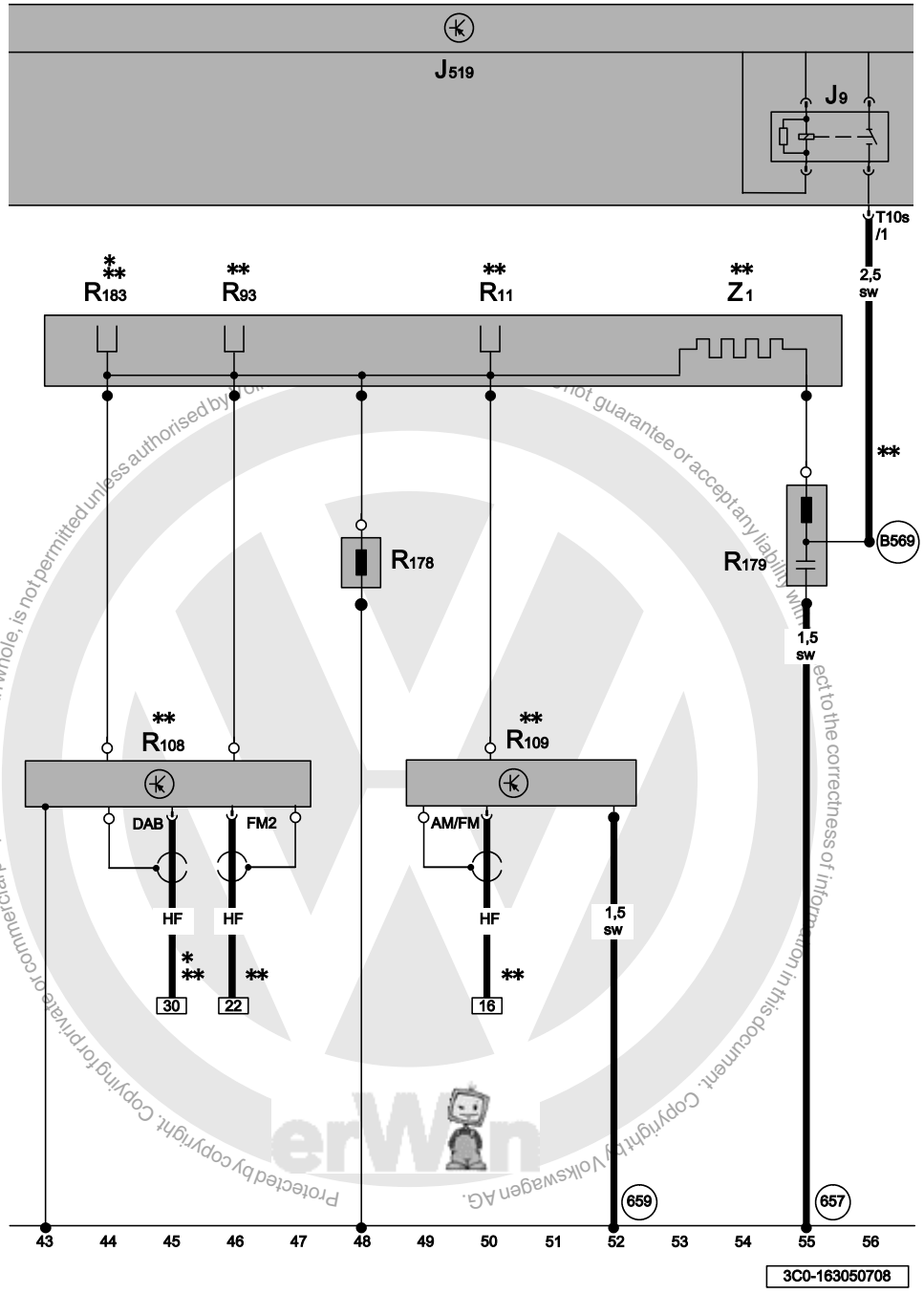


Radio, rear left and right loudspeaker

J519	Onboard supply control unit
R	Radio
R1	Aerial connection
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6by	6-pin connector
T6bx	6-pin connector
T16c	16-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
*	Only models with no Sound system
**	Only models with Sound system ⇒ CFD Sound system
***	Only saloon models
****	Only Variant

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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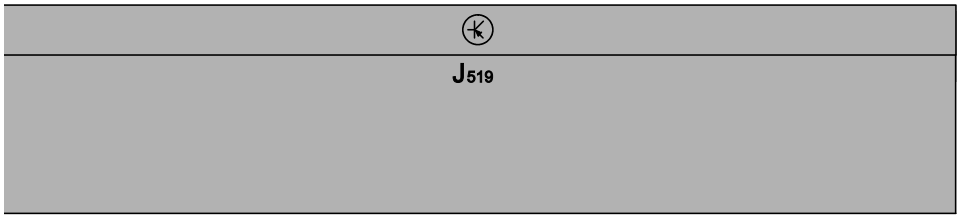


Aerials (saloon), aerial module, FM frequency modulation filter, digital radio aerial

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R93	Radio aerial 2
R108	Left aerial module
R109	Right aerial module
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
R183	Digital radio aerial
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
659	Earth point 1, on right near rear window
B569	Connection 36, in main wiring harness
*	Only models with digital radio receiver
**	Only saloon models

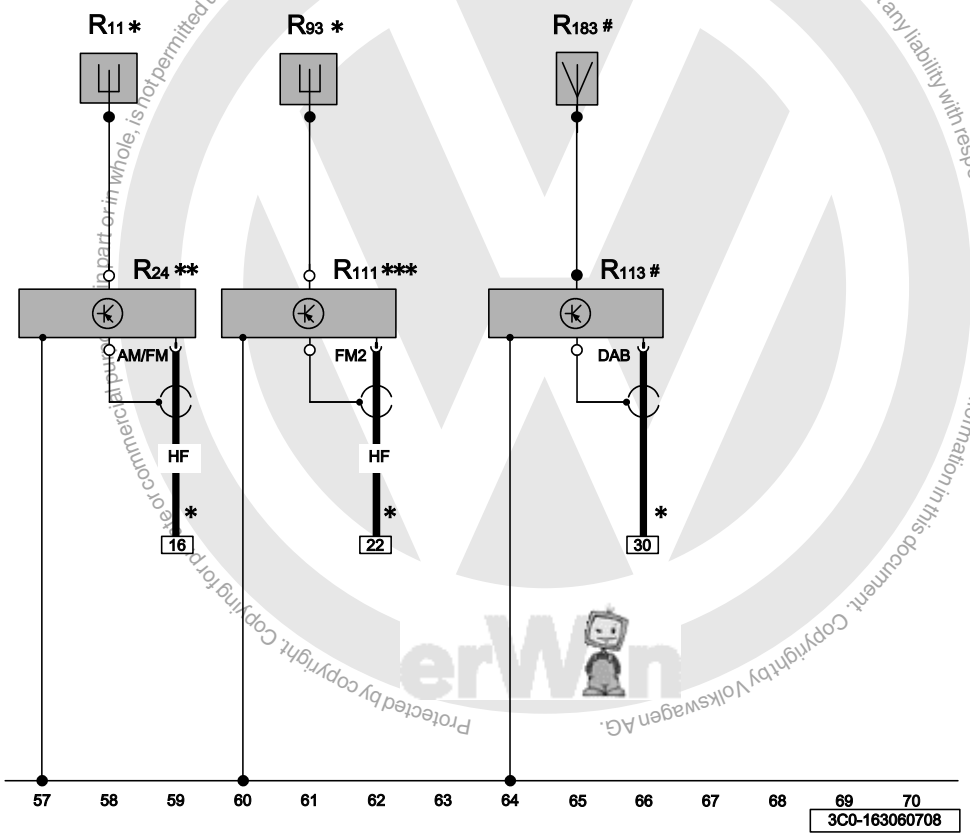
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sw	=	black
ro	=	red
br	=	brown
gn	=	green
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gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Aerials (Variant), aerial amplifier

J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R93	Radio aerial 2
R111	Aerial amplifier 2
R113	Aerial amplifier 4
R183	Digital radio aerial
*	Only Variant
**	Only Variant models, in left C-pillar
***	Only on Variant models, in right C-pillar
#	Only models with digital radio receiver



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Sound system

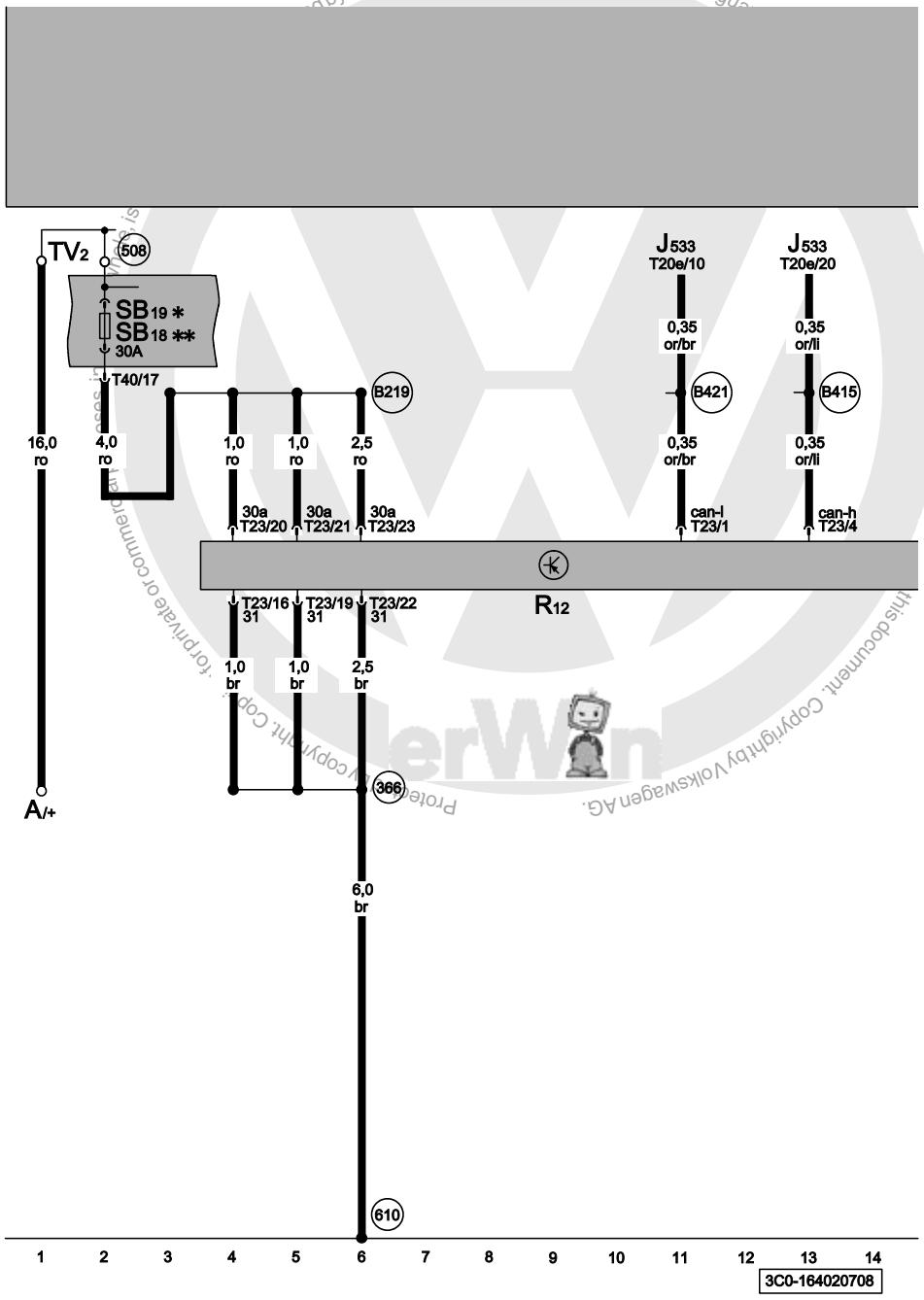
⇒ **Volkswagen Sound**
⇒ **Dynaudio Sound**
⇒ **Radio RCD 310 and RCD 510, radio navigation system RNS 510**
⇒ **10 loudspeakers**
From May 2008

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth points

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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Amplifier, fuses SB18 and SB19, data bus diagnostic interface

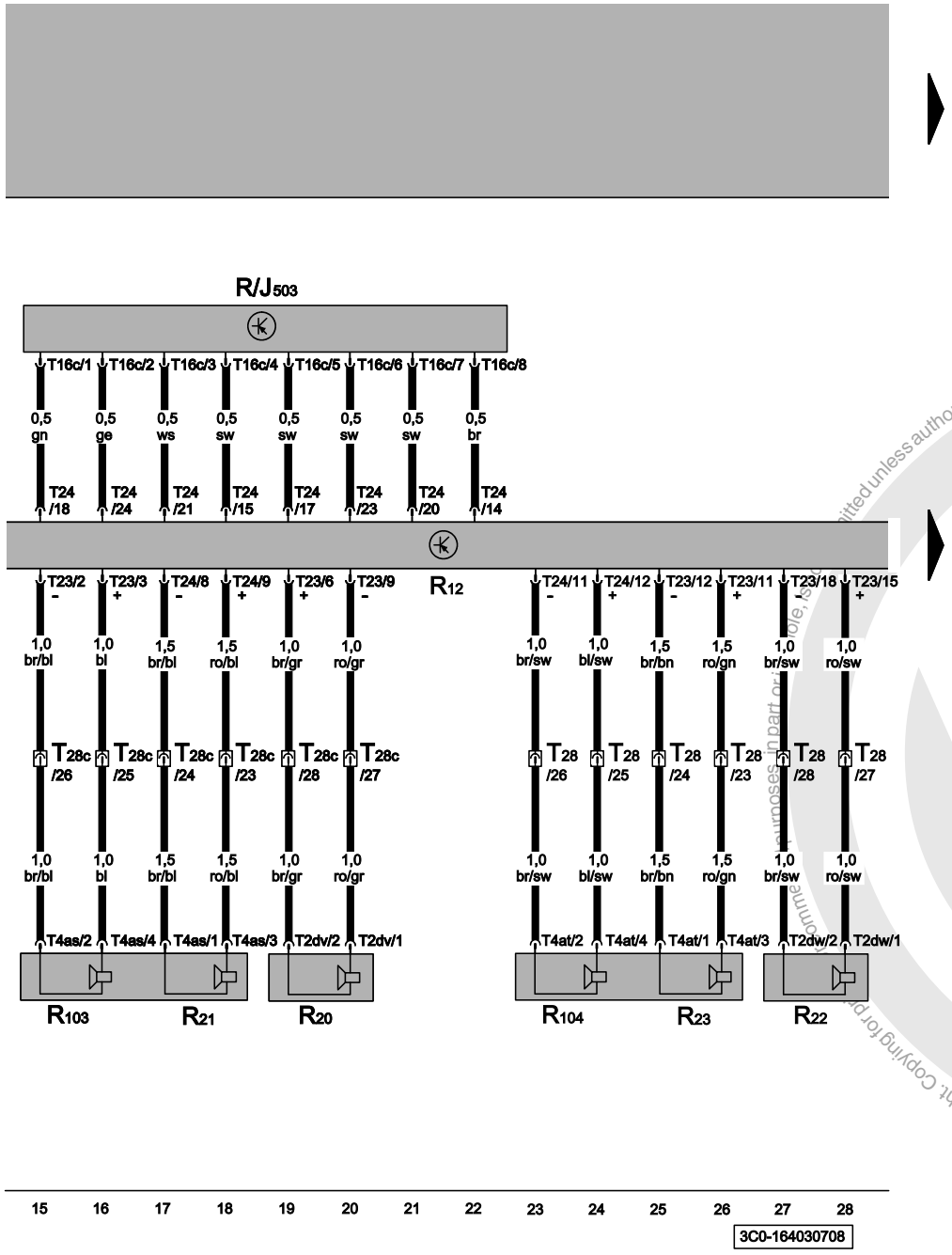
A	Battery
J533	Data bus diagnostic interface
R12	Amplifier
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T20e	20-pin connector
T23	23-pin connector
T40	40-pin connector
TV2	Terminal 30 wiring junction
366	Earth connection 1, in main wiring harness
508	Screw connection (30) on E-box
610	Earth point (audio), front below centre console
B219	Positive connection 4 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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Control unit with display for radio and navigation system, amplifier, rear left and right loudspeaker

J503	Control unit with display for radio and navigation
R	Radio
R12	Amplifier
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R103	Front left mid-range loudspeaker
R104	Front right mid-range loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T16c	16-pin connector
T23	23-pin connector
T24	24-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar

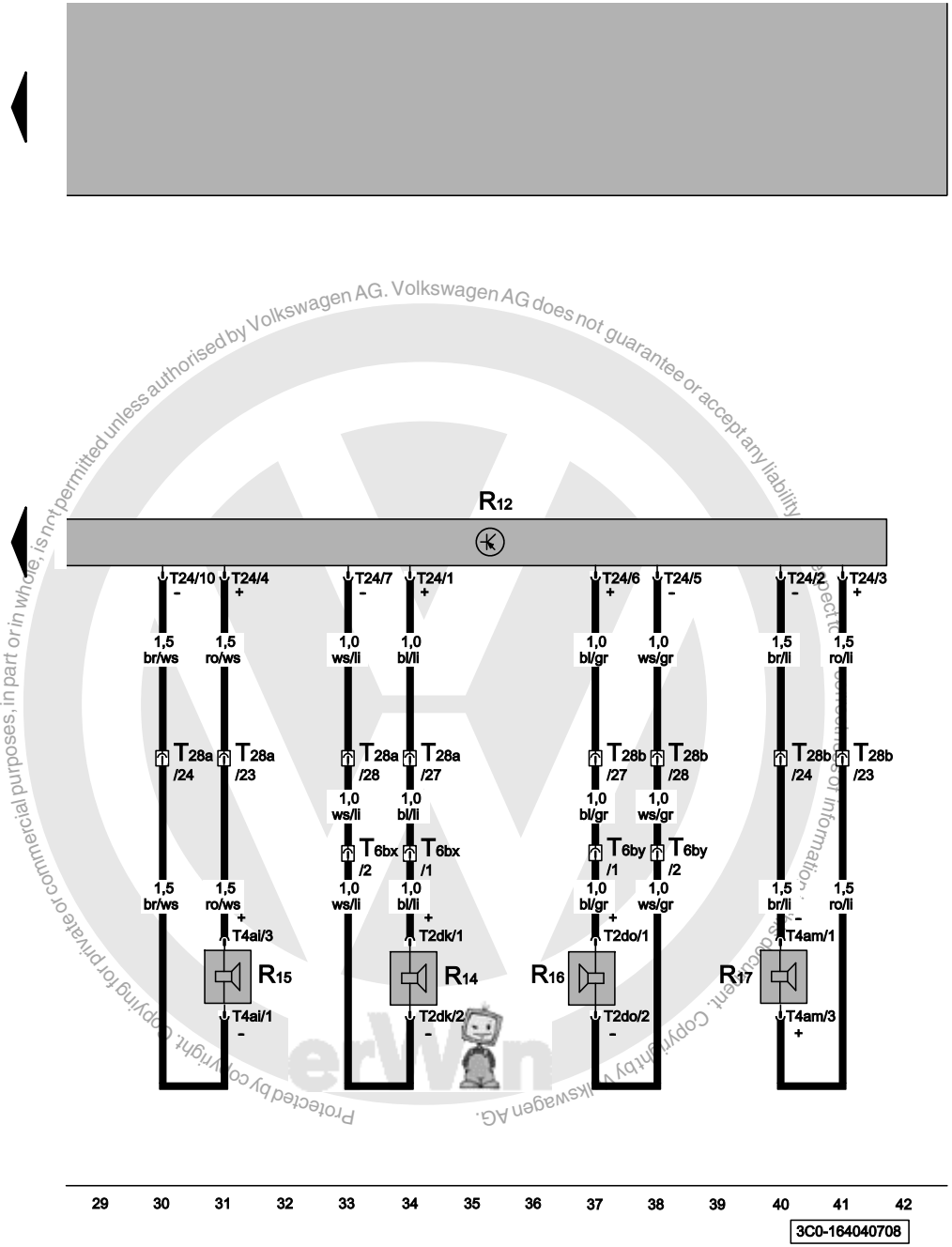


ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Amplifier, rear left and right loudspeaker

R12	Amplifier
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6by	6-pin connector
T6bx	6-pin connector
T24	24-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Radio system "Premium" with digital satellite radio tuner, radio navigation system with digital satellite radio tuner: RNS 510, CD changer, sound system

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

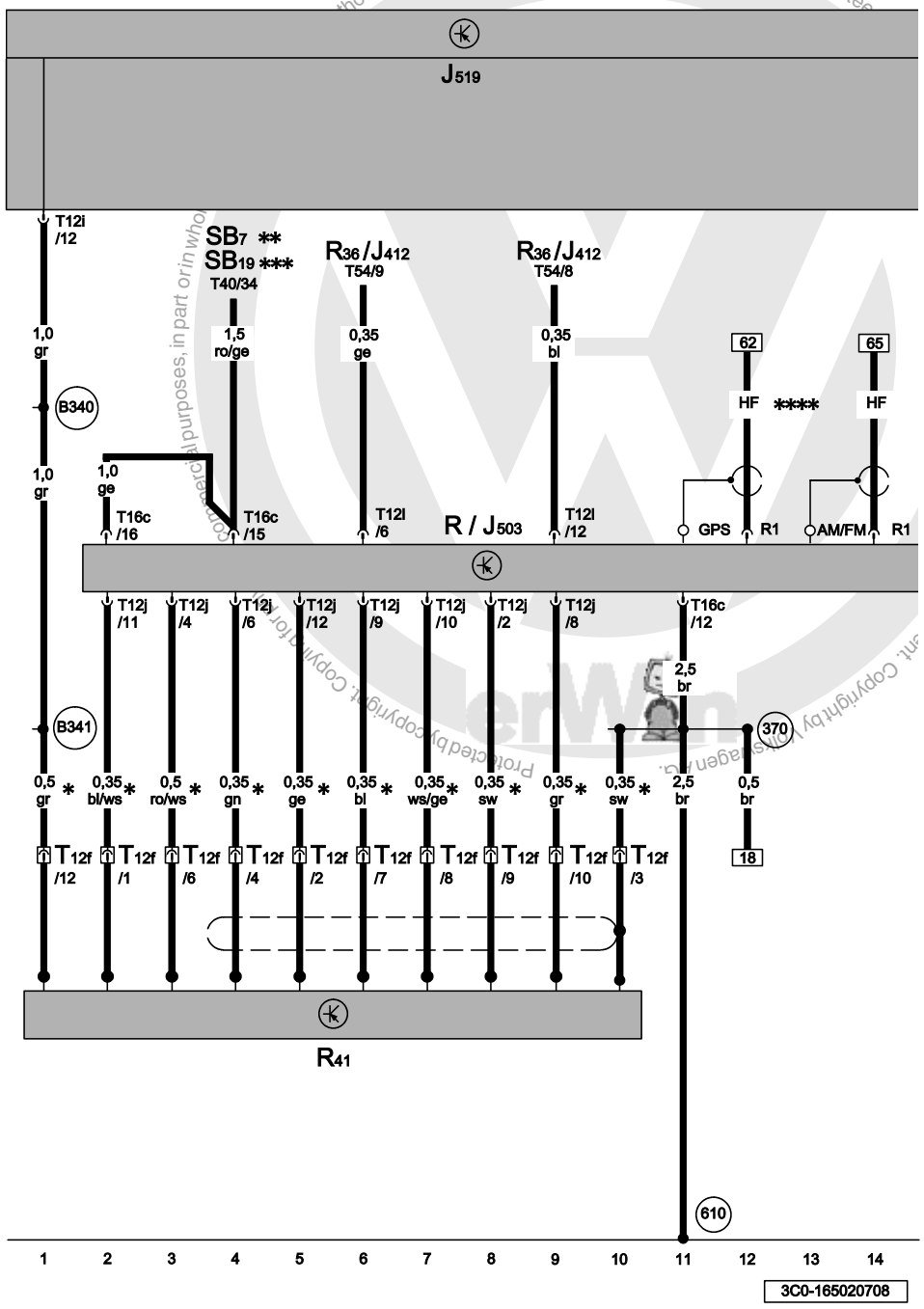
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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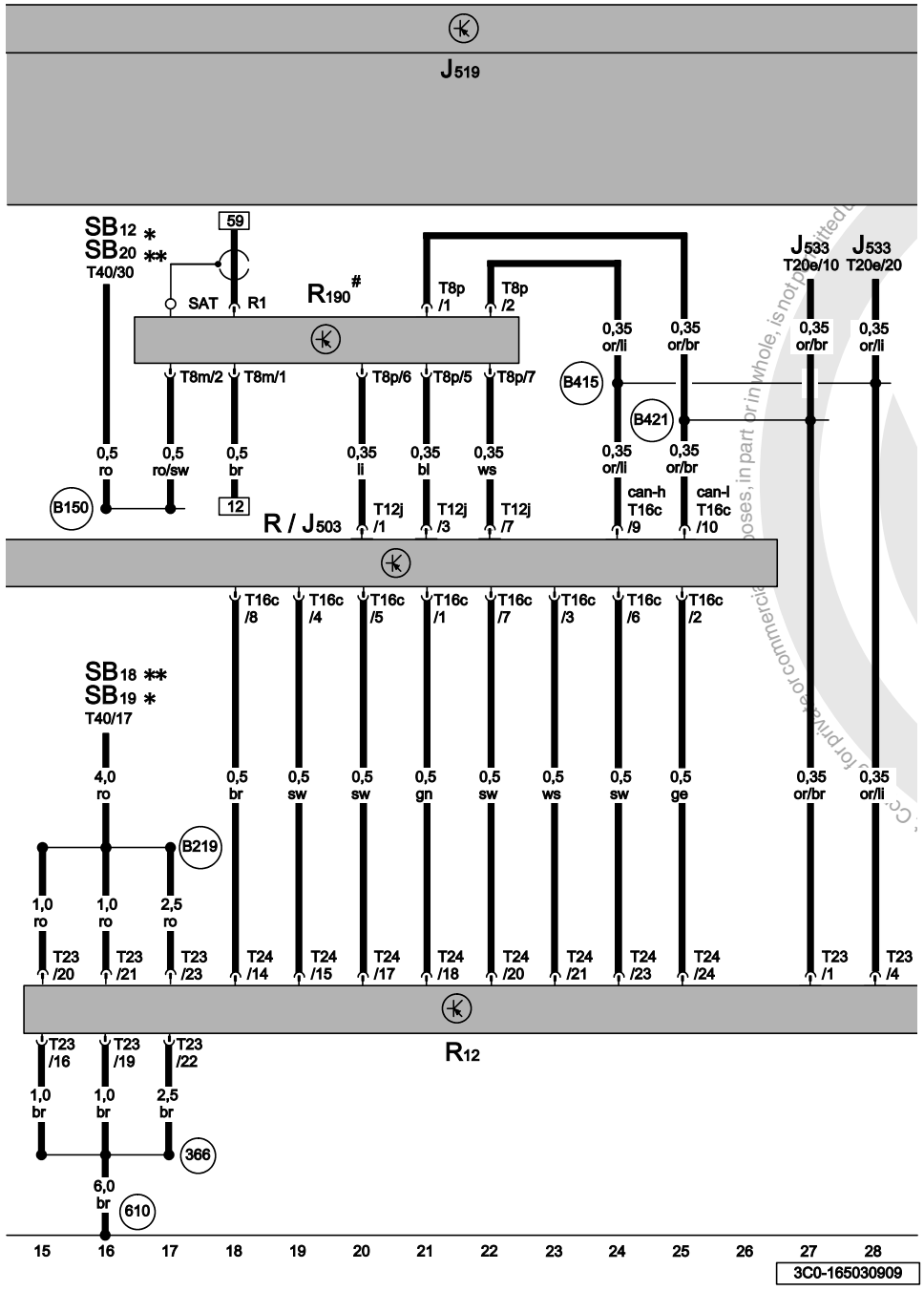


Control unit with display for radio and navigation system, CD changer, mobile telephone operating electronics control unit, fuses

J412	Control unit for mobile telephone operating electronics
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R1	Aerial connection
R36	Telephone transmitter and receiver unit
R41	CD changer
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector, blue
T12l	12-pin connector
T16c	16-pin connector
T40	40-pin connector
T54	54-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), at front under centre console
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only models with preparation for CD changer or external CD changer
**	Only models with E-box low
***	Only models with E-box high
****	Only models with navigation system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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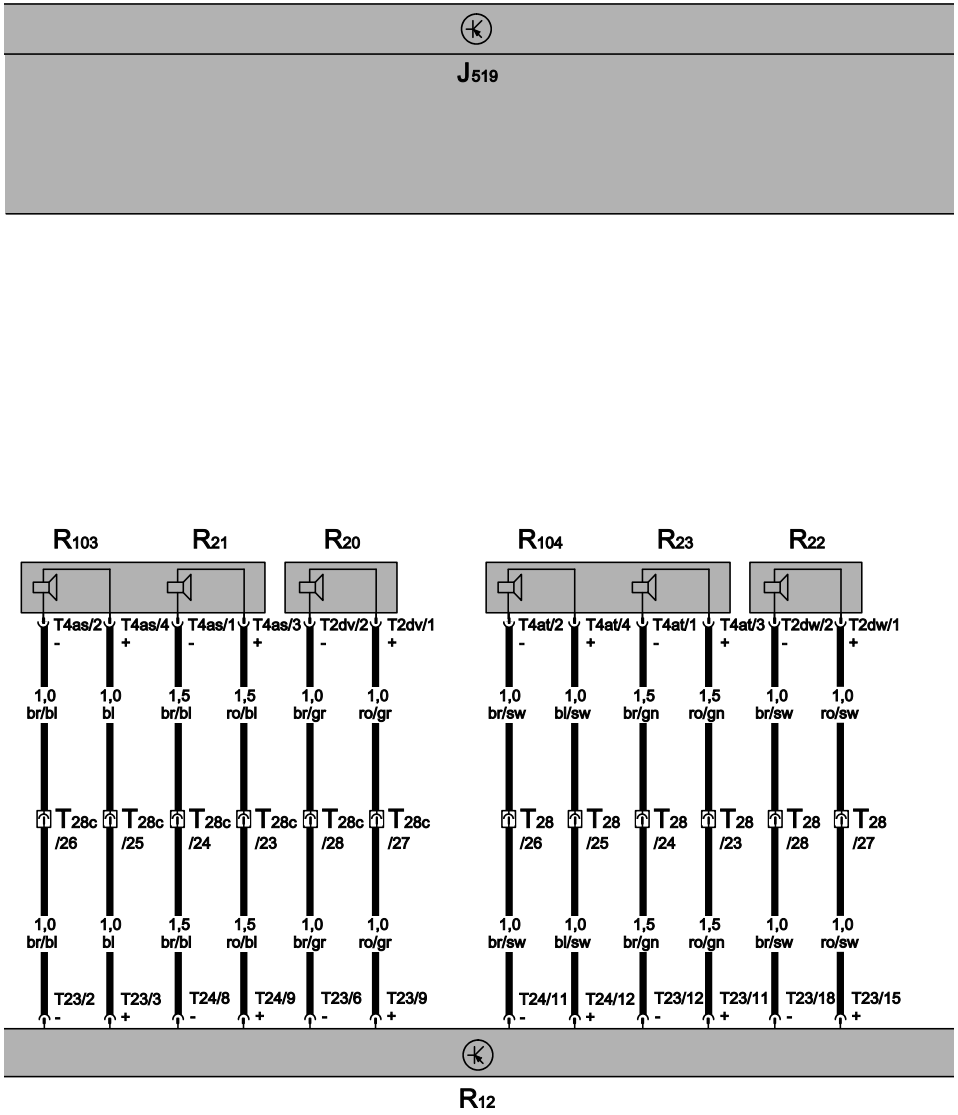


Amplifier, control unit with display for radio and navigation system, satellite digital radio tuner, aerial connection

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnosis interface
R	Radio
R1	Aerial connection
R12	Amplifier
R190	Satellite digital radio tuner
SB12	Fuse 12 on fuse holder B
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
SB20	Fuse 20 on fuse holder B
T8m	8-pin connector
T8p	8-pin connector
T12j	12-pin connector
T16c	16-pin connector
T20e	20-pin connector
T23	23-pin connector
T24	24-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
610	Earth point (audio), at front under centre console
B150	Positive connection 2 (30a), in interior wiring harness
B219	Positive connection 4 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
#	Discontinued from May 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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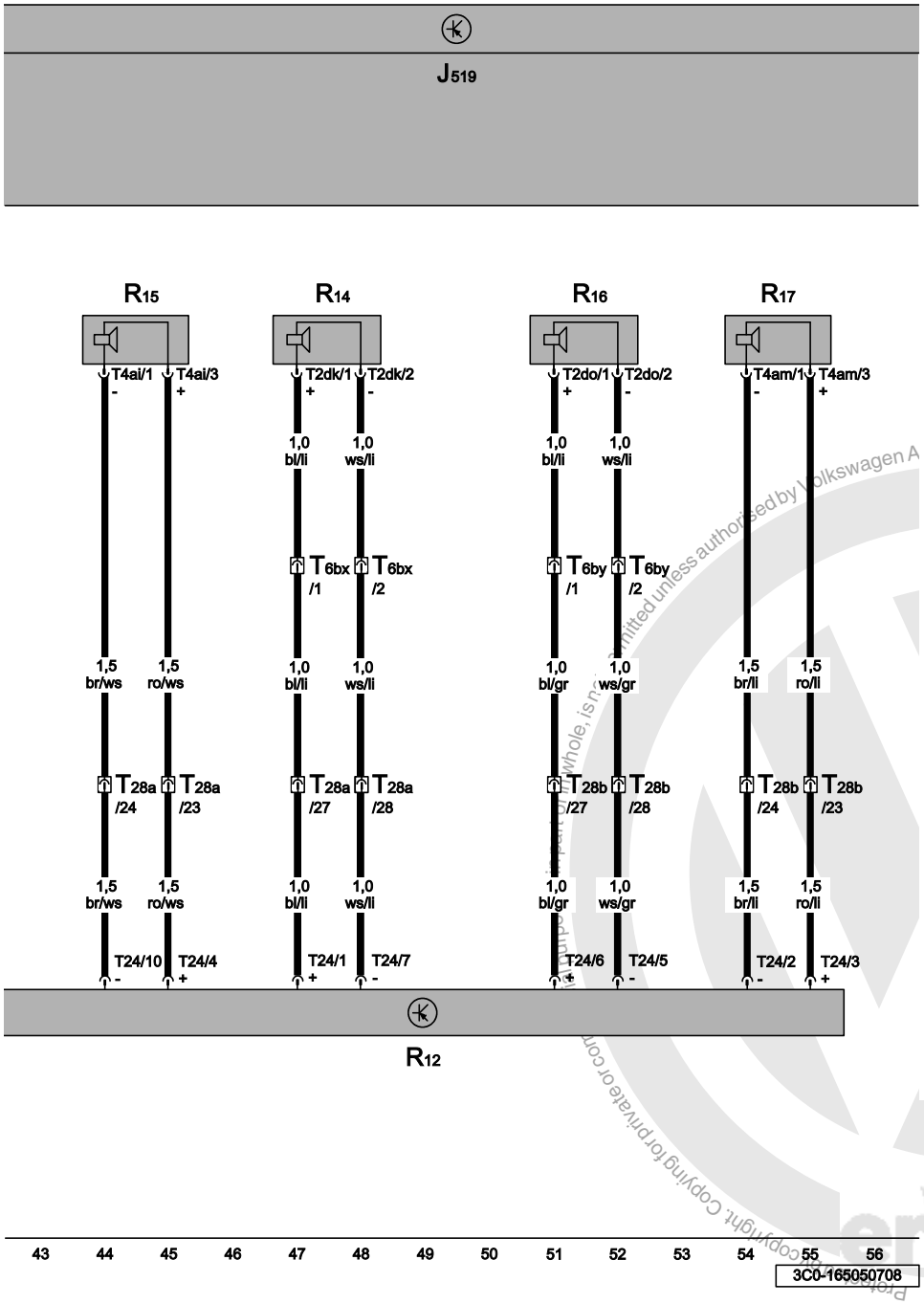


Front left and right treble, mid-range and bass loudspeakers , amplifier

J519	Onboard supply control unit
R12	Amplifier
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R103	Front left mid-range loudspeaker
R104	Front right mid-range loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T23	23-pin connector
T24	24-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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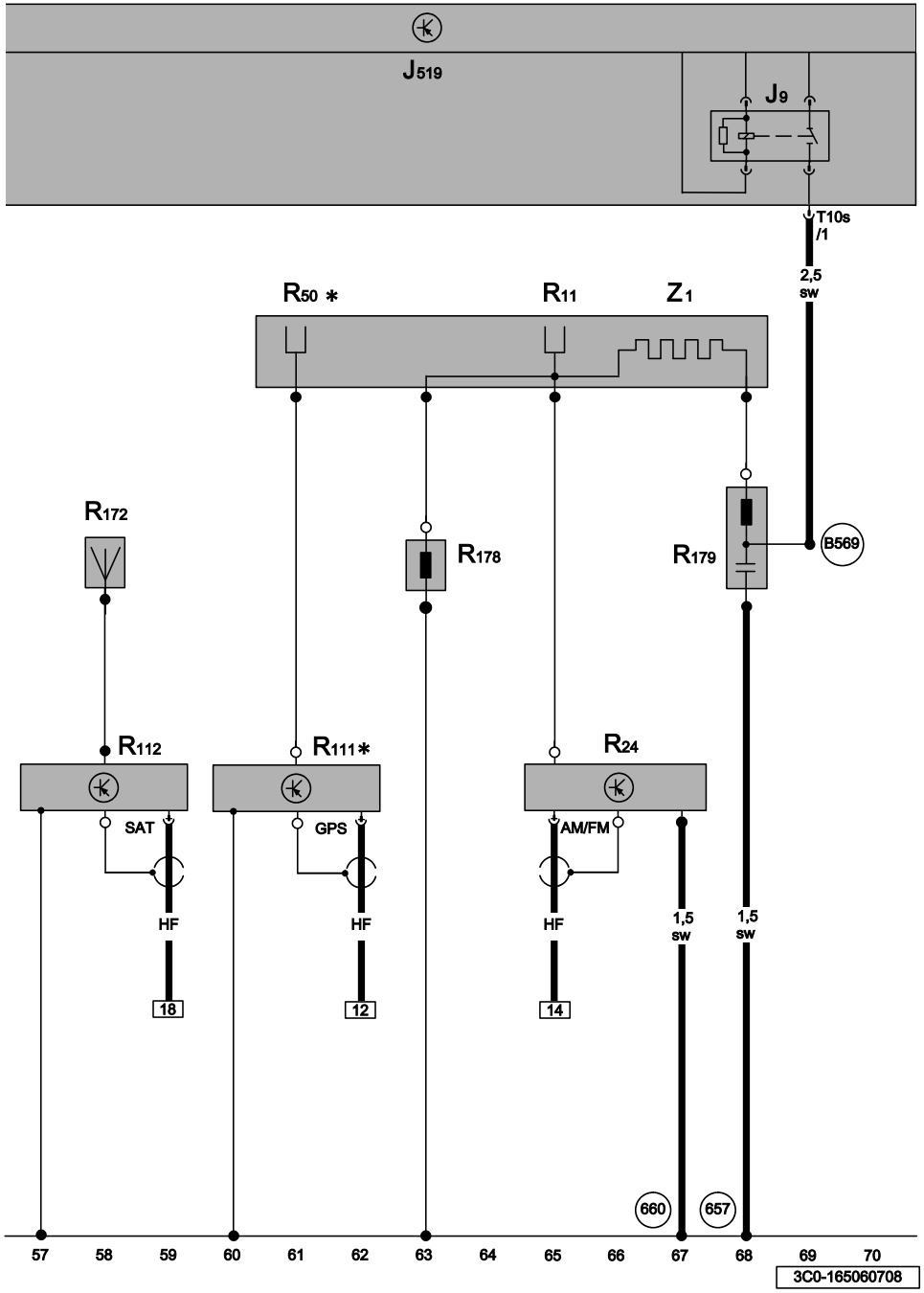


Bass loudspeaker and rear left and right treble loudspeaker, amplifier

J519	Onboard supply control unit
R12	Amplifier
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T24	24-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Aerials, aerial amplifier, FM frequency modulation filter, heated rear window relay

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R111	Aerial amplifier 2
R112	Aerial amplifier 3
R172	Satellite tuner aerial
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36, in main wiring harness
*	Only models with navigation system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Radio and navigation system RNS 300, radio and navigation system RNS 310, 8 loudspeakers, connection for external audio sources, CD changer

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth points

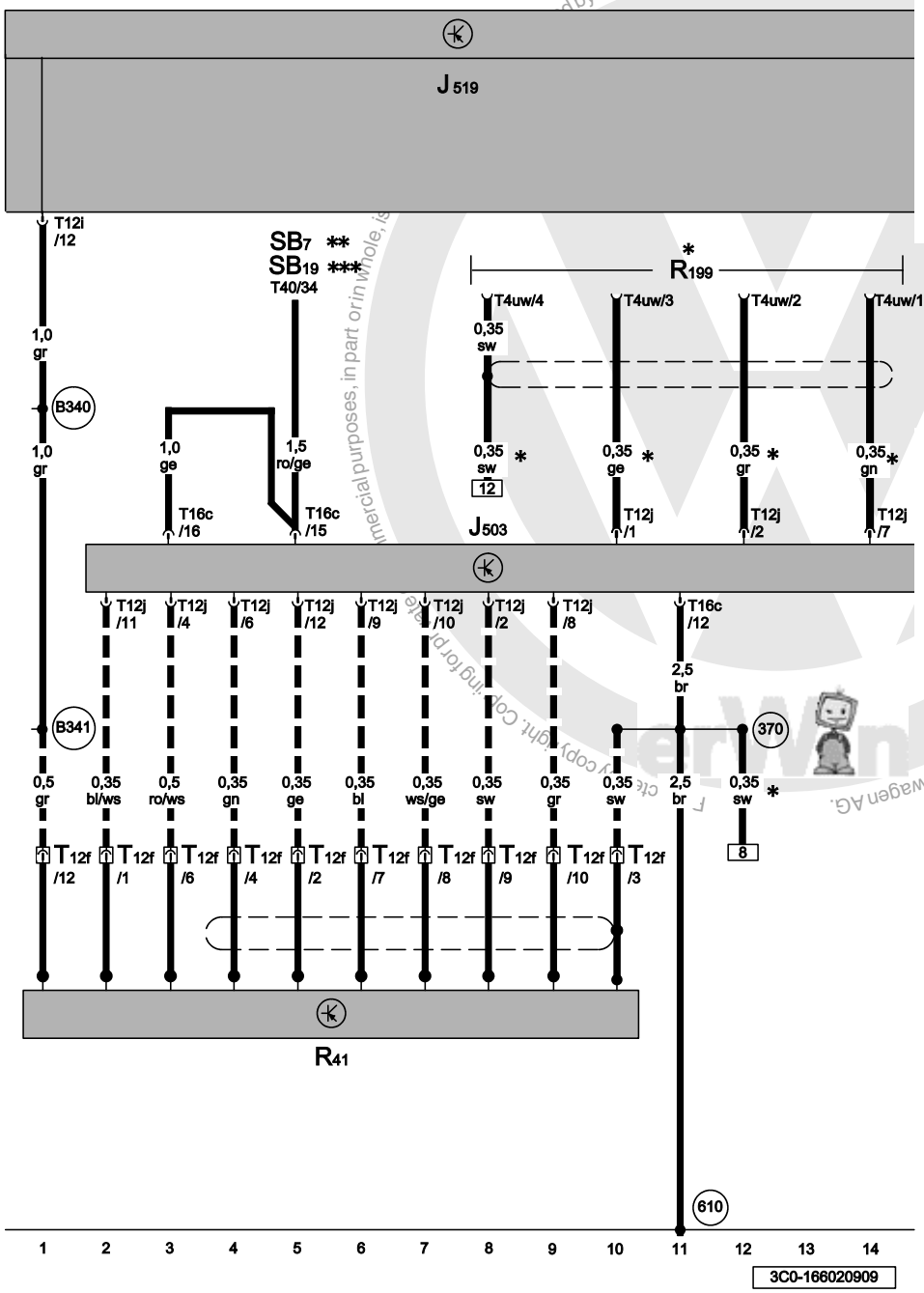
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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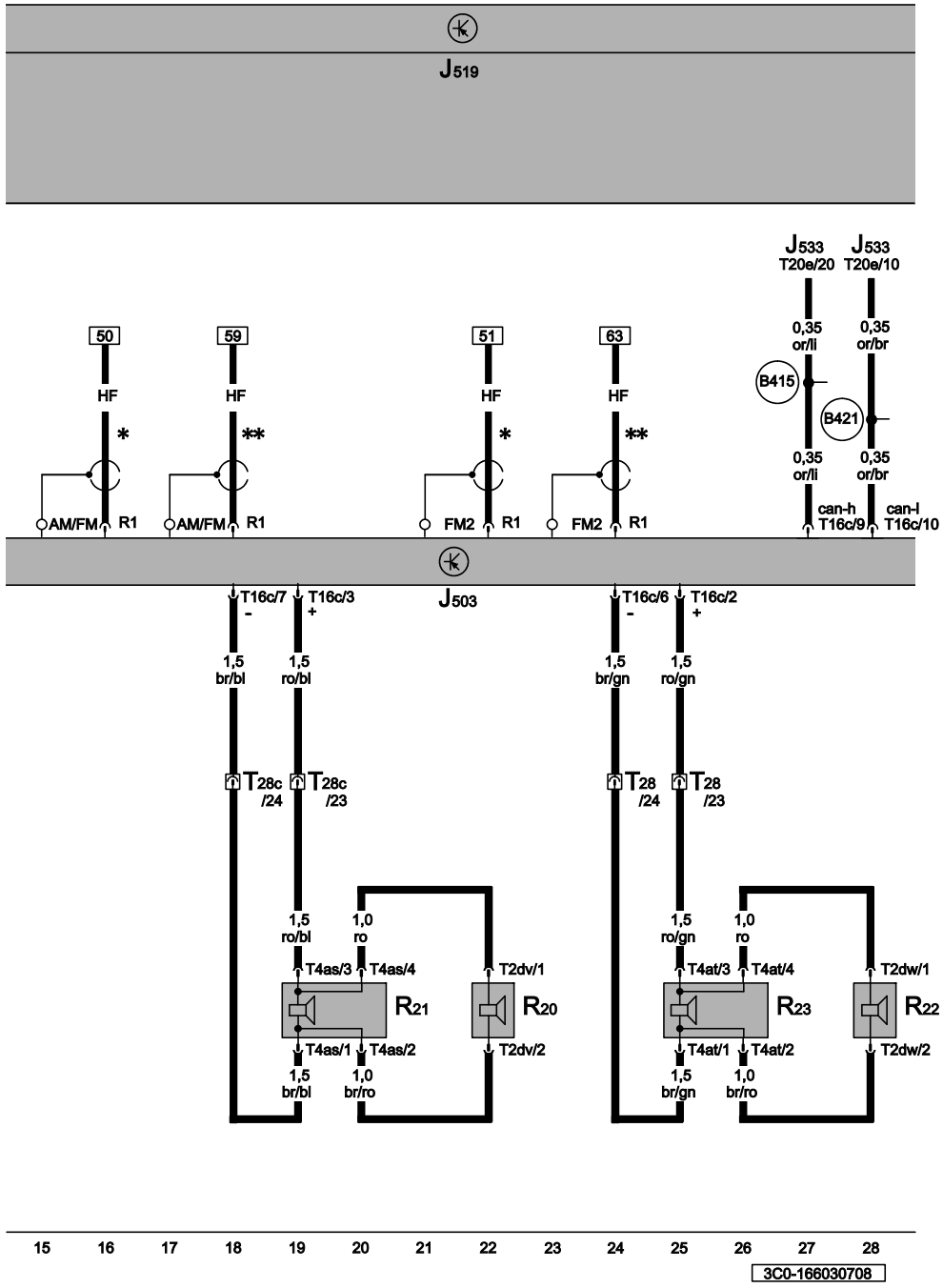


Control unit with display for radio and navigation, connection for external audio source, CD changer

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R41	CD changer
R199	Connection for external audio sources
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T4uw	4-pin connector, white
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector, blue
T16c	16-pin connector
T40	40-pin connector, on E-box
370	Earth connection 5, in main wiring harness
610	Earth point (audio), at front under centre console
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only models with connection for external audio sources
**	Only models with E-box low
***	Only models with E-box high
---	Only models with preparation for CD changer or external CD changer

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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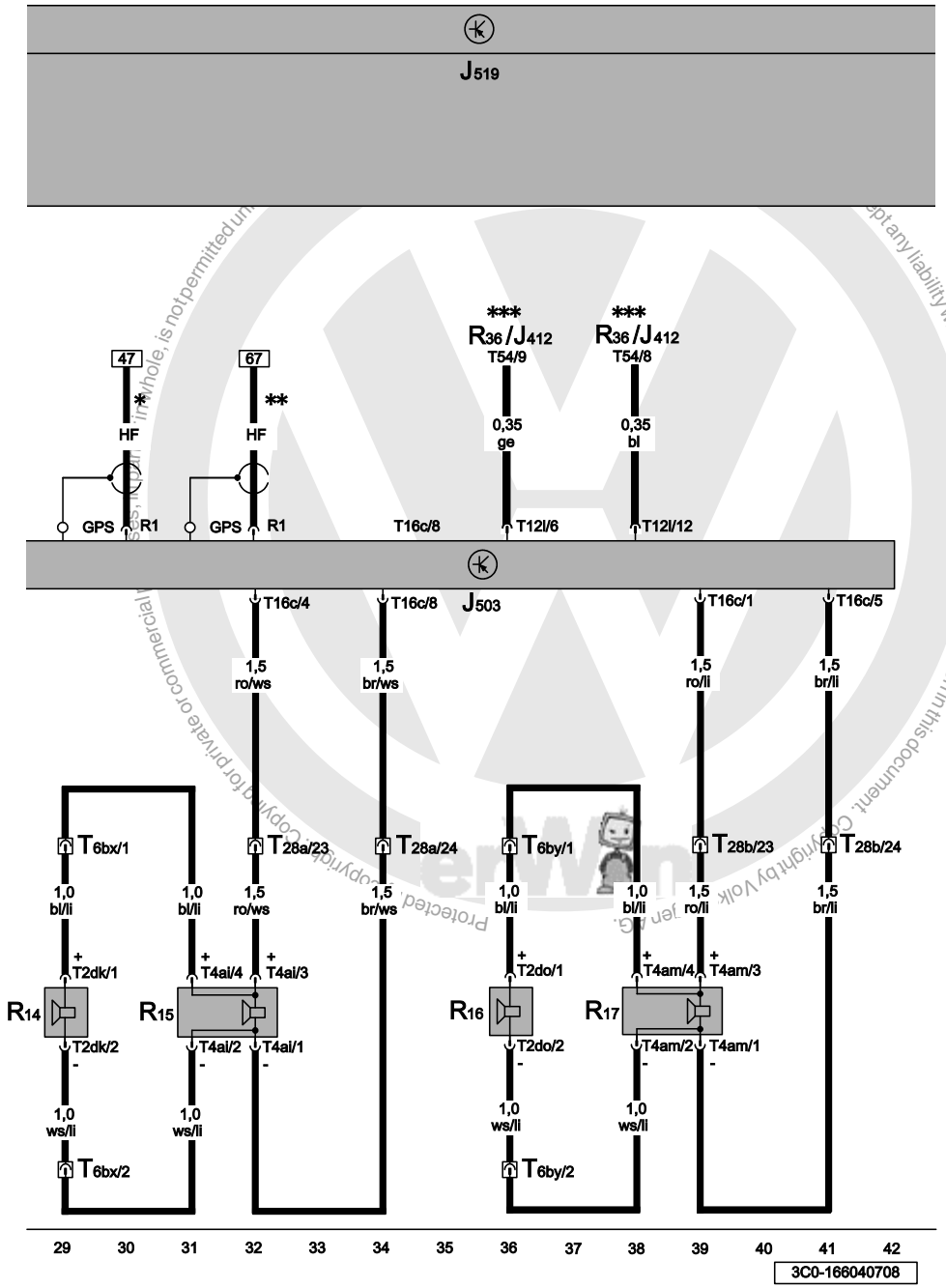


Control unit with display for radio and navigation system, data bus diagnostic interface, front loudspeaker

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnosis interface
R1	Aerial connection
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T16c	16-pin connector
T20e	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only saloon models
**	Only Variant

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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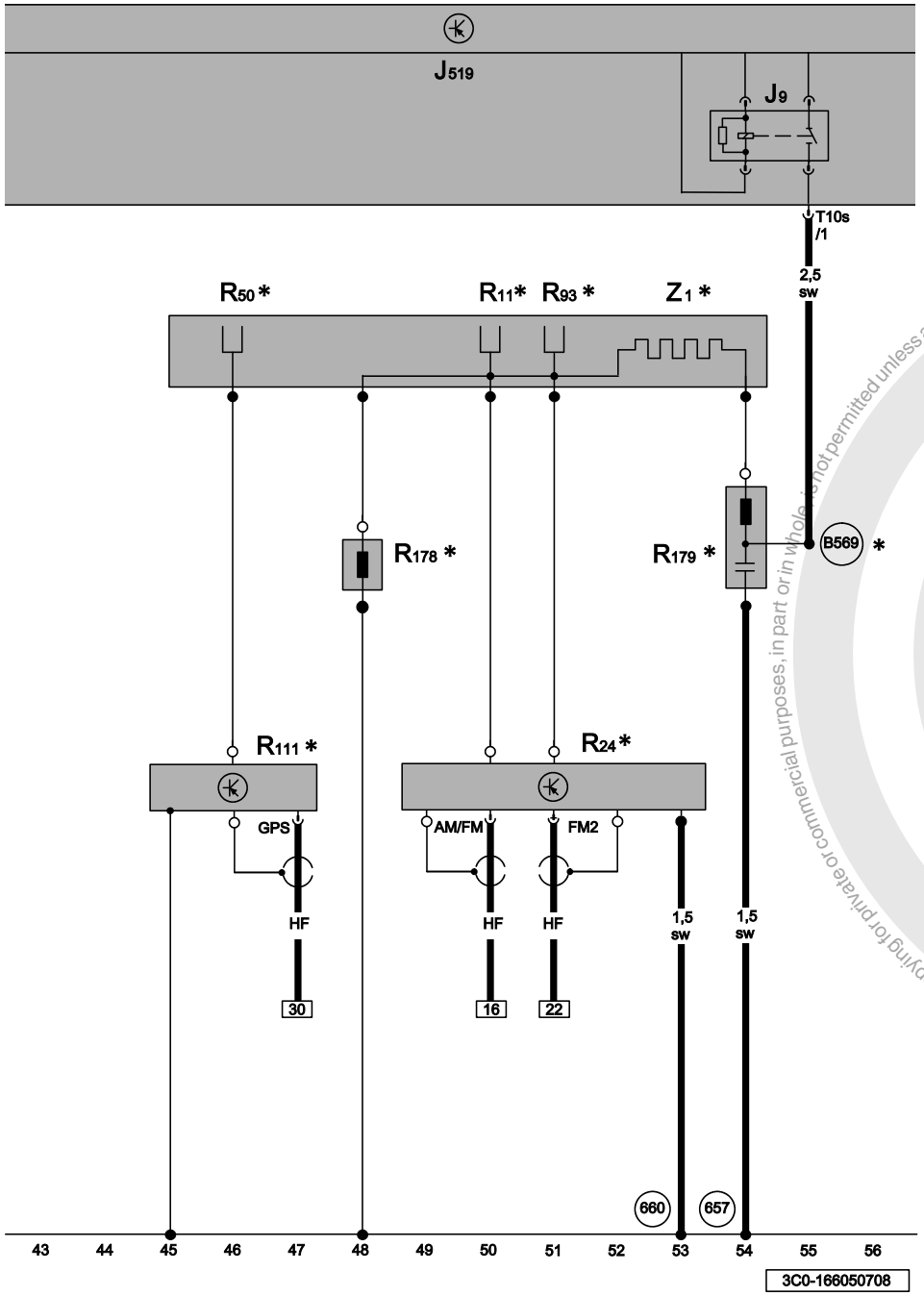


Control unit with display for radio and navigation system, rear left and right loudspeakers, mobile telephone operating electronics control unit

J412	Control unit for mobile telephone operating electronics
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R1	Aerial connection
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
R36	Telephone transmitter and receiver unit
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T12l	12-pin connector, green
T16c	16-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
T54	54-pin connector
*	Only saloon models
**	Only Variant
***	Only models with telephone/preparation for telephone

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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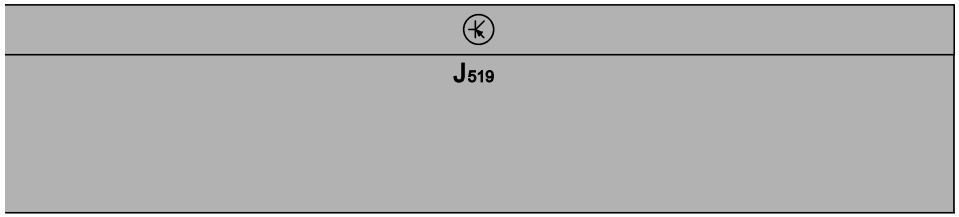


Aerials (saloon), aerial amplifier, FM frequency modulation filter, heated rear window relay

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36, in main wiring harness
*	Only saloon models

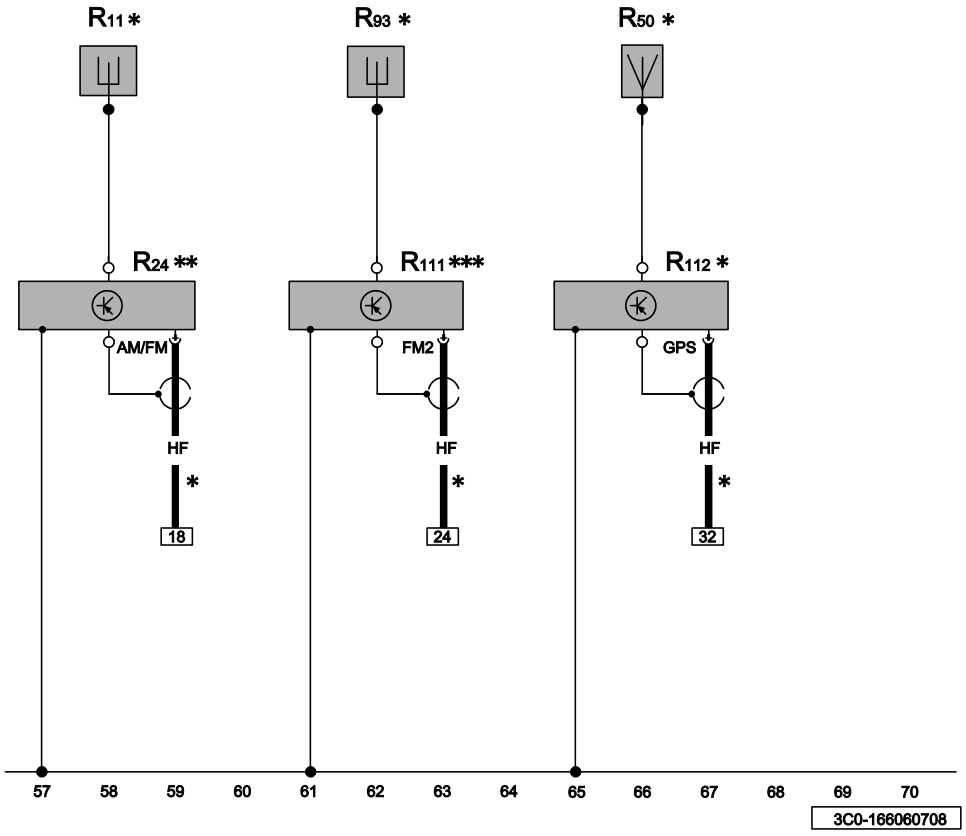
ws	=	white
sw	=	black
ro	=	red
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Aerials (Variant), aerial amplifier

J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
*	Only Variant
**	Only Variant models, in left C-pillar
***	Only On Variant models, in right C-pillar



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ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Radio-navigation system RNS 510

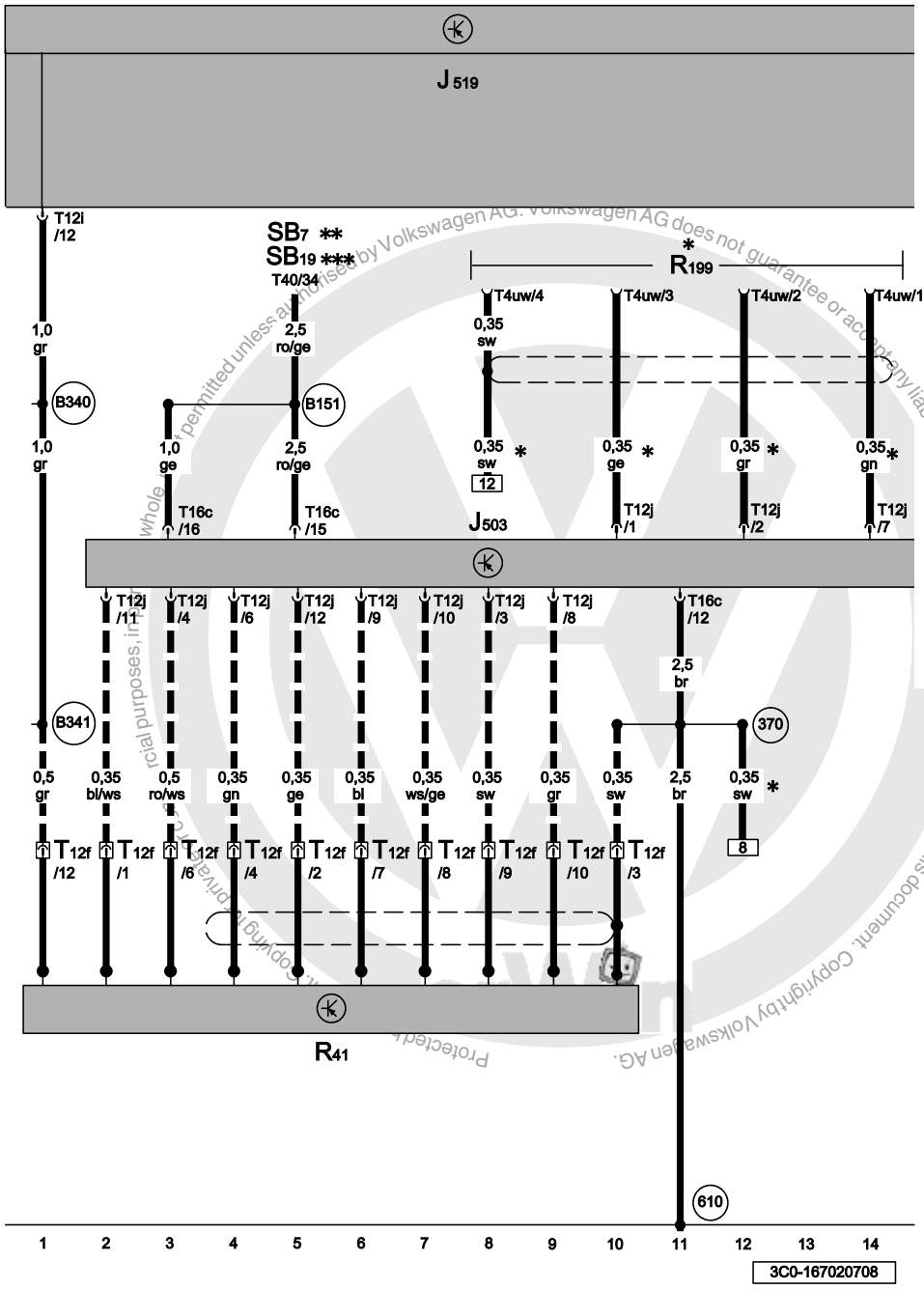
⇒ **8 loudspeakers**
⇒ **With no sound system**
⇒ **Connection for external audio sources**
⇒ **CD changer**
From May 2008

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth points

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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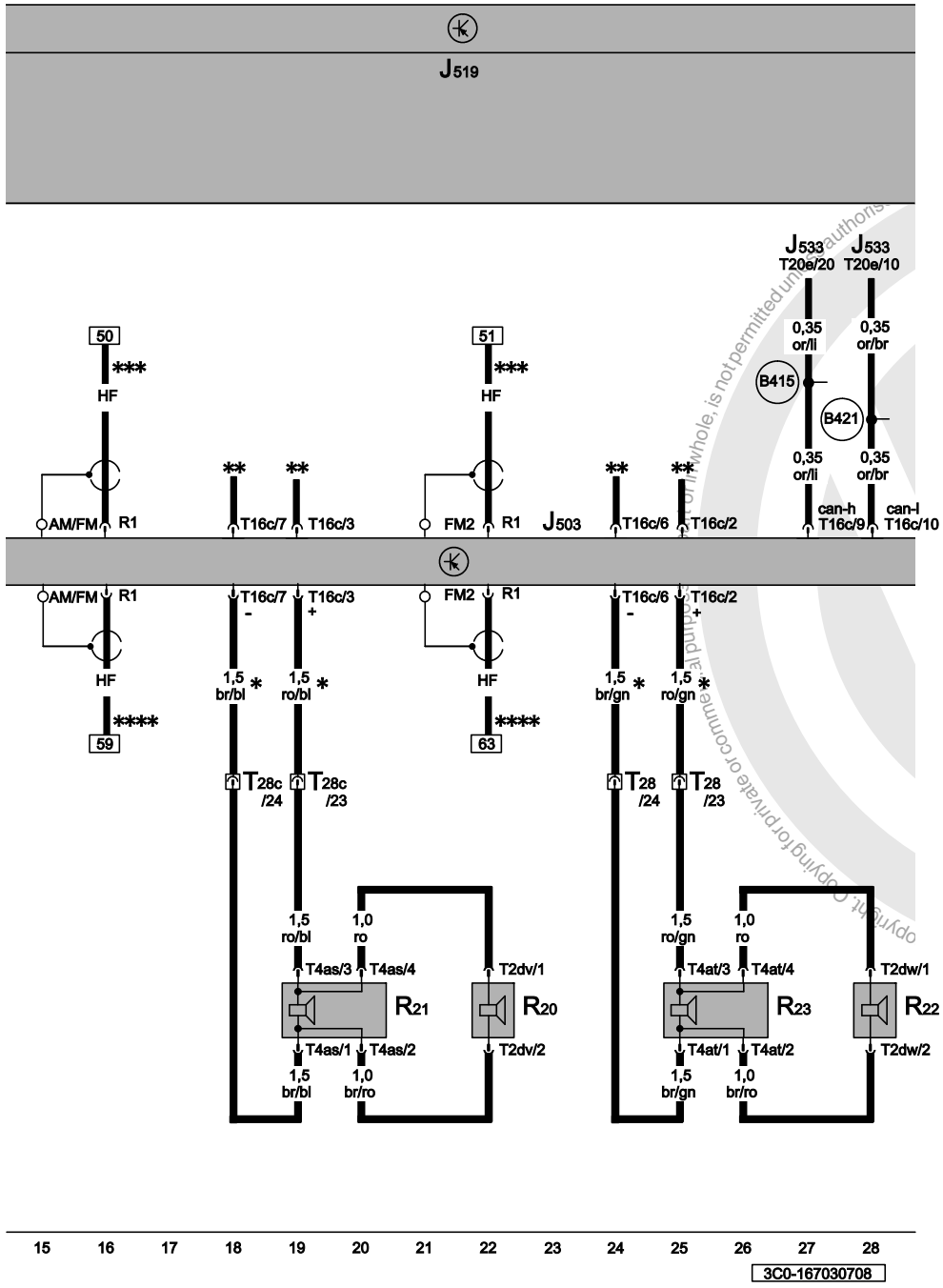


Control unit with display for radio and navigation, connection for external audio source, CD changer

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R41	CD changer
R199	Connection for external audio sources
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T4uw	4-pin connector, white
T12f	12-pin connector, near CD changer
T12i	12-pin connector
T12j	12-pin connector, blue
T16c	16-pin connector
T40	40-pin connector, on E-box
370	Earth connection 5, in main wiring harness
610	Earth point (audio), at front under centre console
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only models with connection for external audio sources
**	Only models with E-box low
***	Only models with E-box high
---	Only models with preparation for CD changer or external CD changer

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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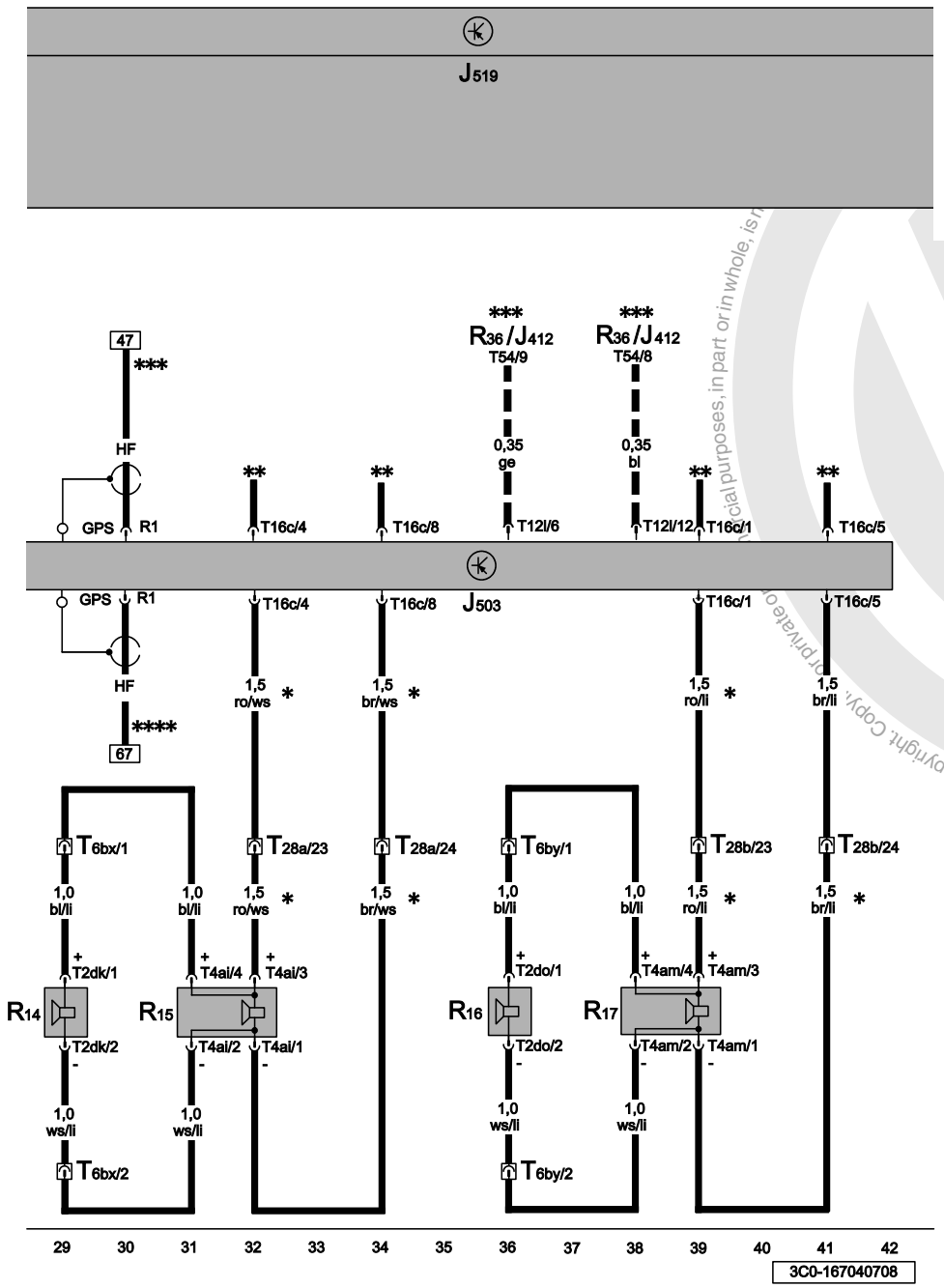


Control unit with display for radio and navigation system, front loudspeaker, data bus diagnostic interface

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnosis interface
R1	Aerial connection
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T16c	16-pin connector
T20e	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only models with no Sound system
**	Only models with Sound system ⇒ CFD Sound system
***	Only saloon models
****	Only Variant

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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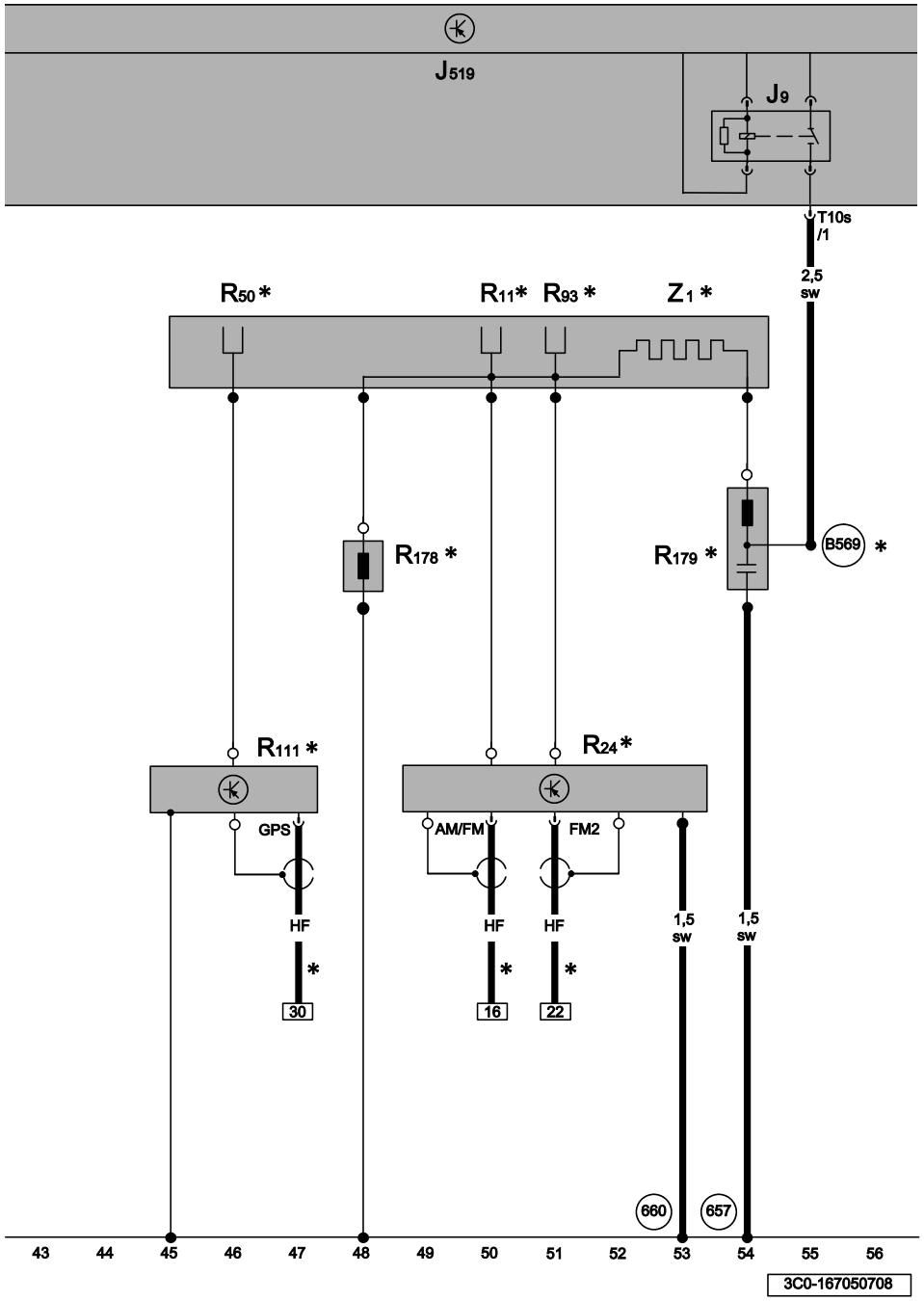


Control unit with display for radio and navigation system, mobile telephone operating electronics control unit, telephone transmitter and receiver unit, rear left and right loudspeakers

J412	Control unit for mobile telephone operating electronics
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R1	Aerial connection
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
R36	Telephone transmitter and receiver unit
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector
T6by	6-pin connector
T16c	16-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
T54	54-pin connector
*	Only models with no Sound system
**	Only models with Sound system ⇒ CFD Sound system
***	Only saloon models
****	Only Variant
---	Only models with telephone/preparation for telephone

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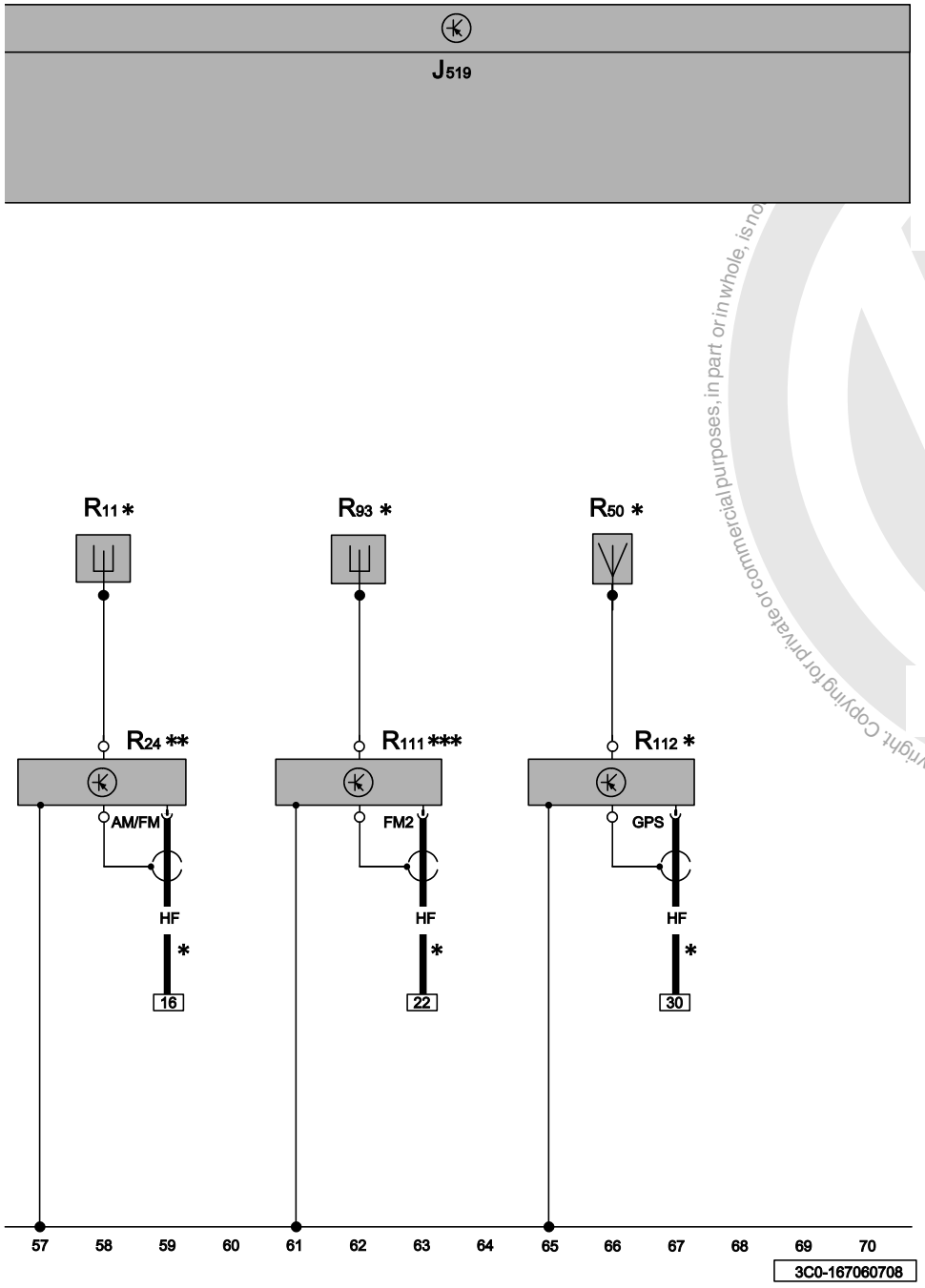


Aerials (saloon), aerial amplifier, FM frequency modulation filter, heated rear window relay

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36, in main wiring harness
*	Only saloon models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Aerials (Variant), aerial amplifier

J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
*	Only Variant
**	Only Variant models, in left C-pillar
***	Only On Variant models, in right C-pillar

ws	=	white
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ro	=	red
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gn	=	green
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Preparation for navigation system Japan

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

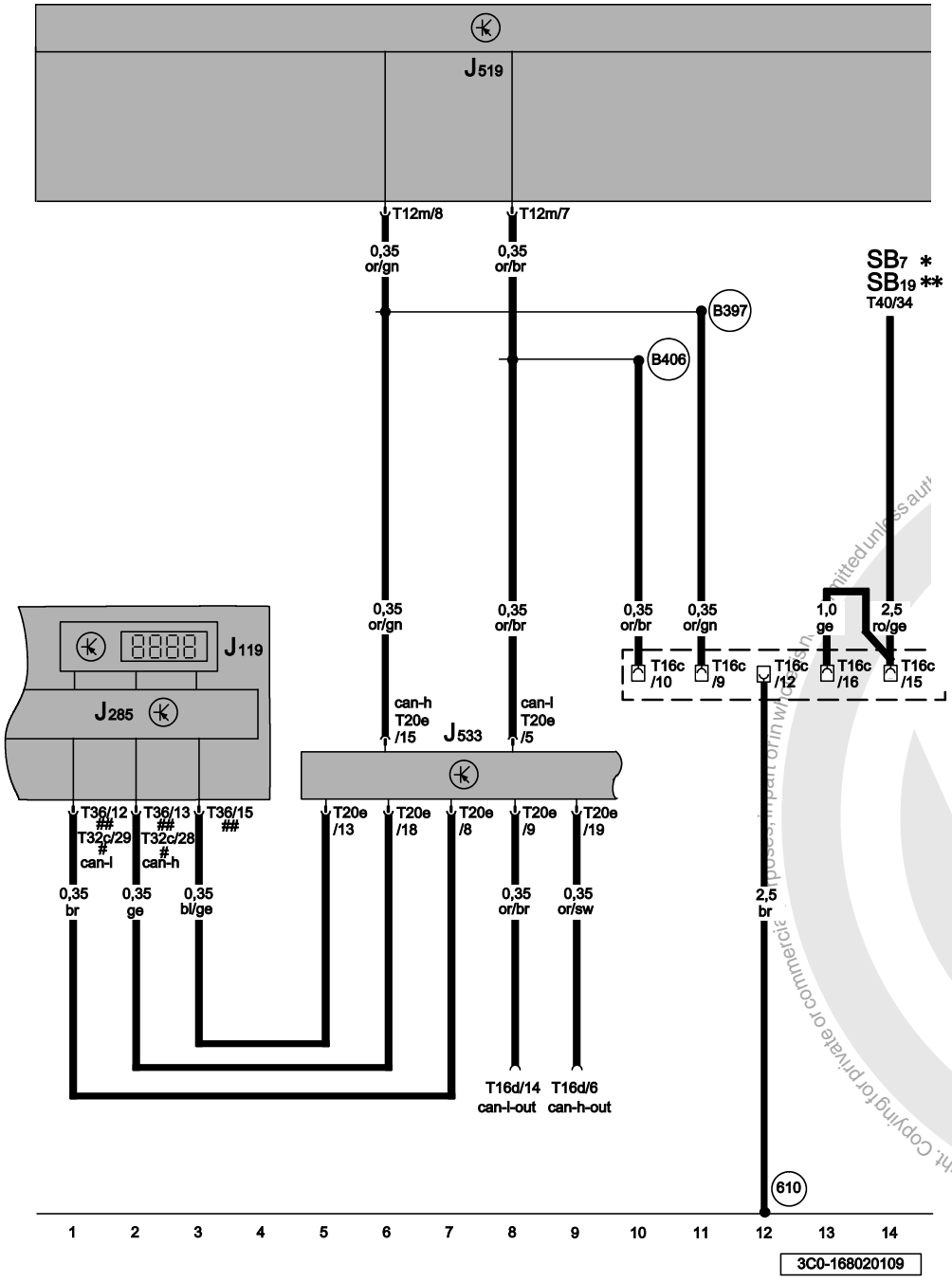
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Voltage supply, onboard supply control unit, data bus diagnostic interface, self-diagnosis connection

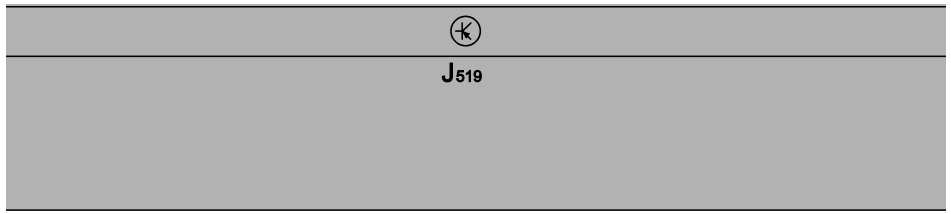
J119	Multifunction display
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T12m	12-pin connector, black
T16c	16-pin connector, centre behind dash panel
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
T40	40-pin connector
610	Earth point (audio), at front under centre console
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
#	From November 2008
##	Up to October 2008

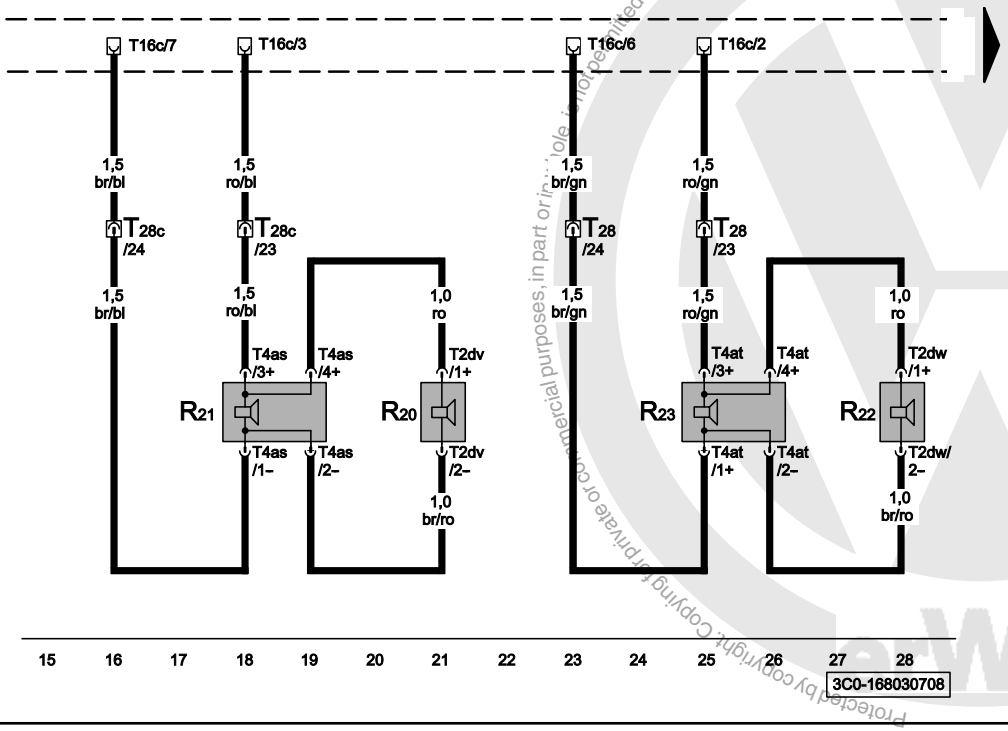
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rs	=	pink

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Treble and bass loudspeakers in front door

J519	Onboard supply control unit
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T16c	16-pin connector, centre behind dash panel
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar



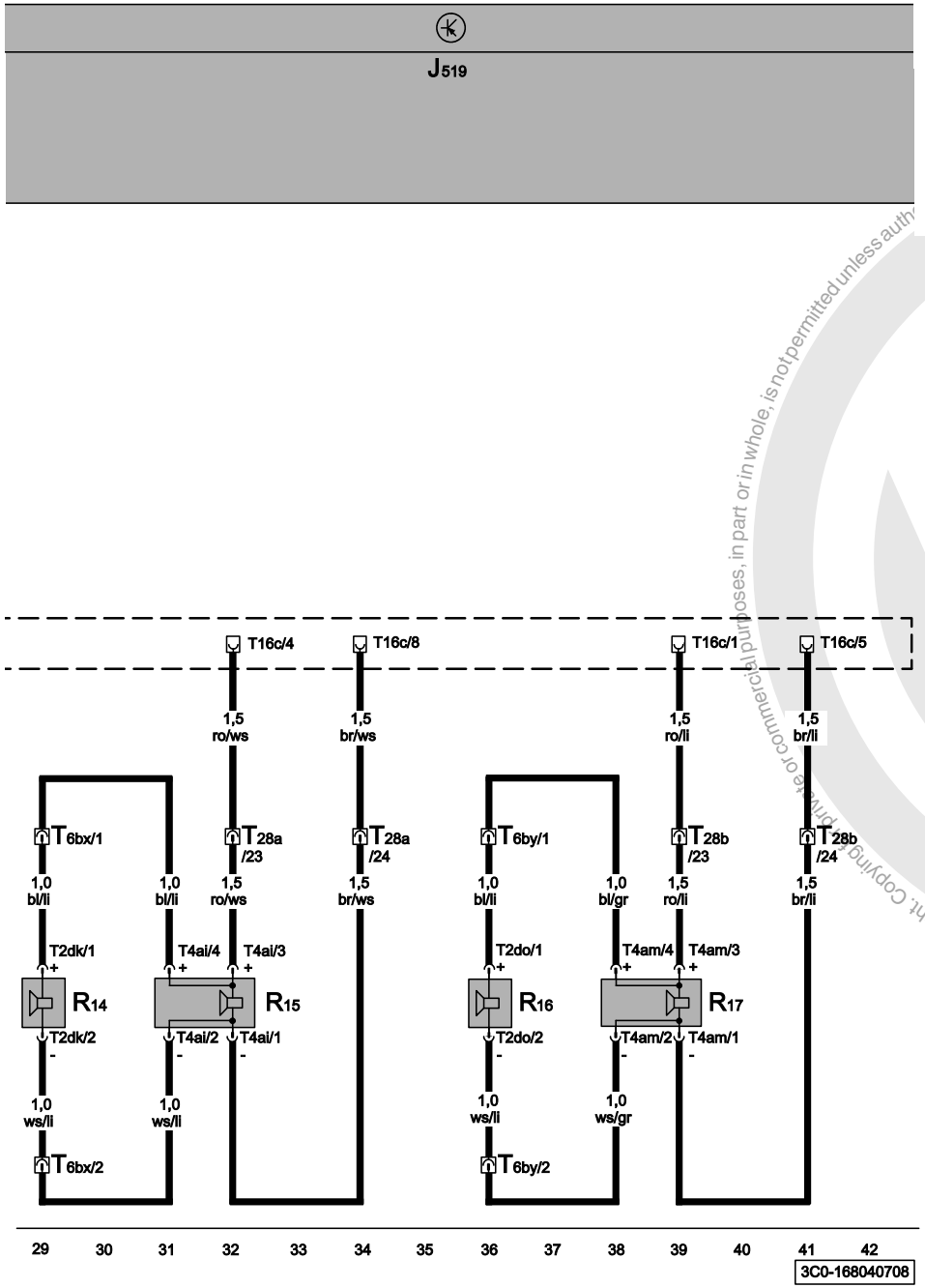


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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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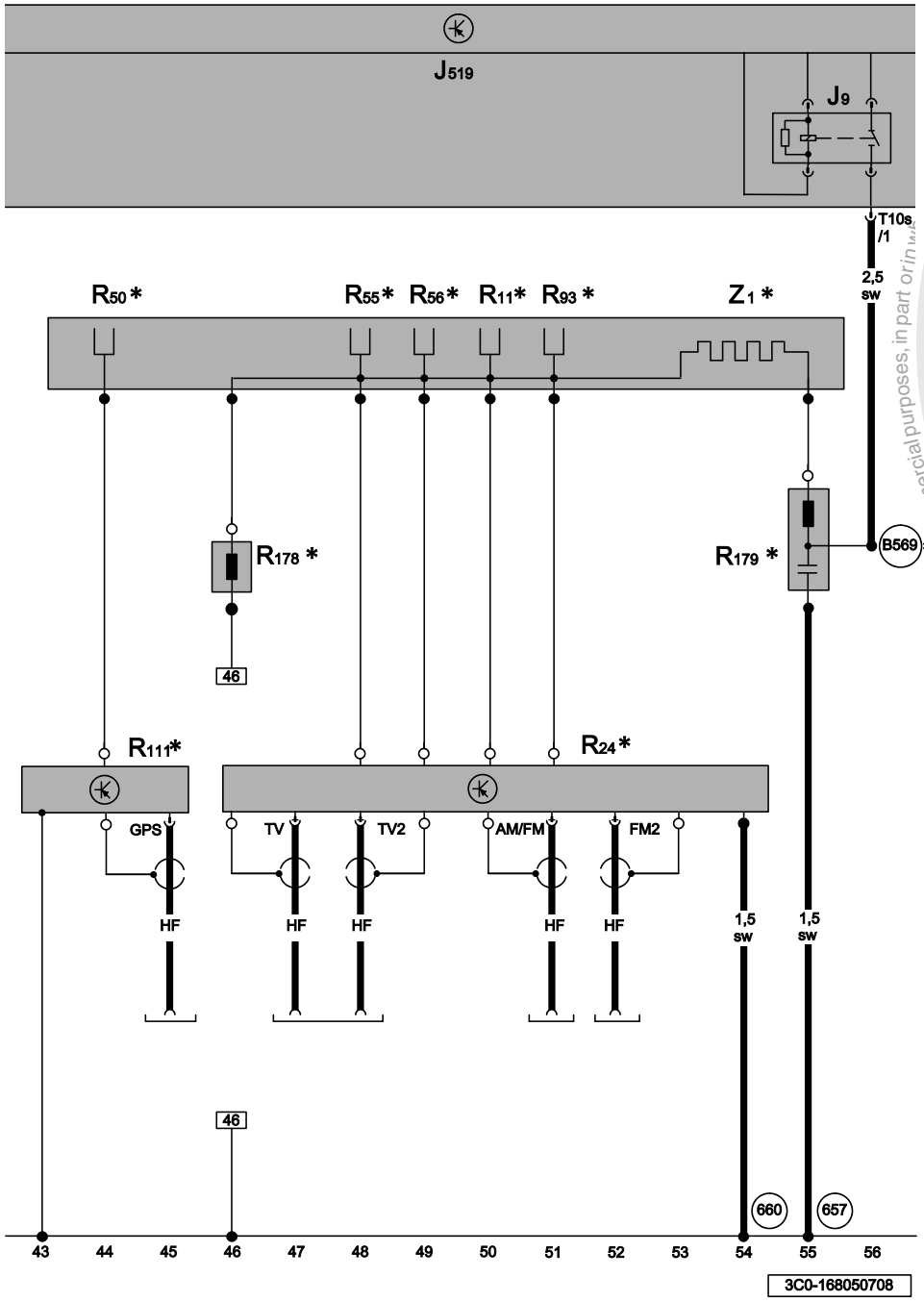
Treble and bass loudspeakers in rear door

J519	Onboard supply control unit
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector, in rear left door
T6by	6-pin connector, in rear right door
T16c	16-pin connector, centre behind dash panel
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar



ws	=	white
sw	=	black
ro	=	red
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Aerials (saloon), aerial amplifier, FM frequency modulation filter, heated rear window relay, heated rear window

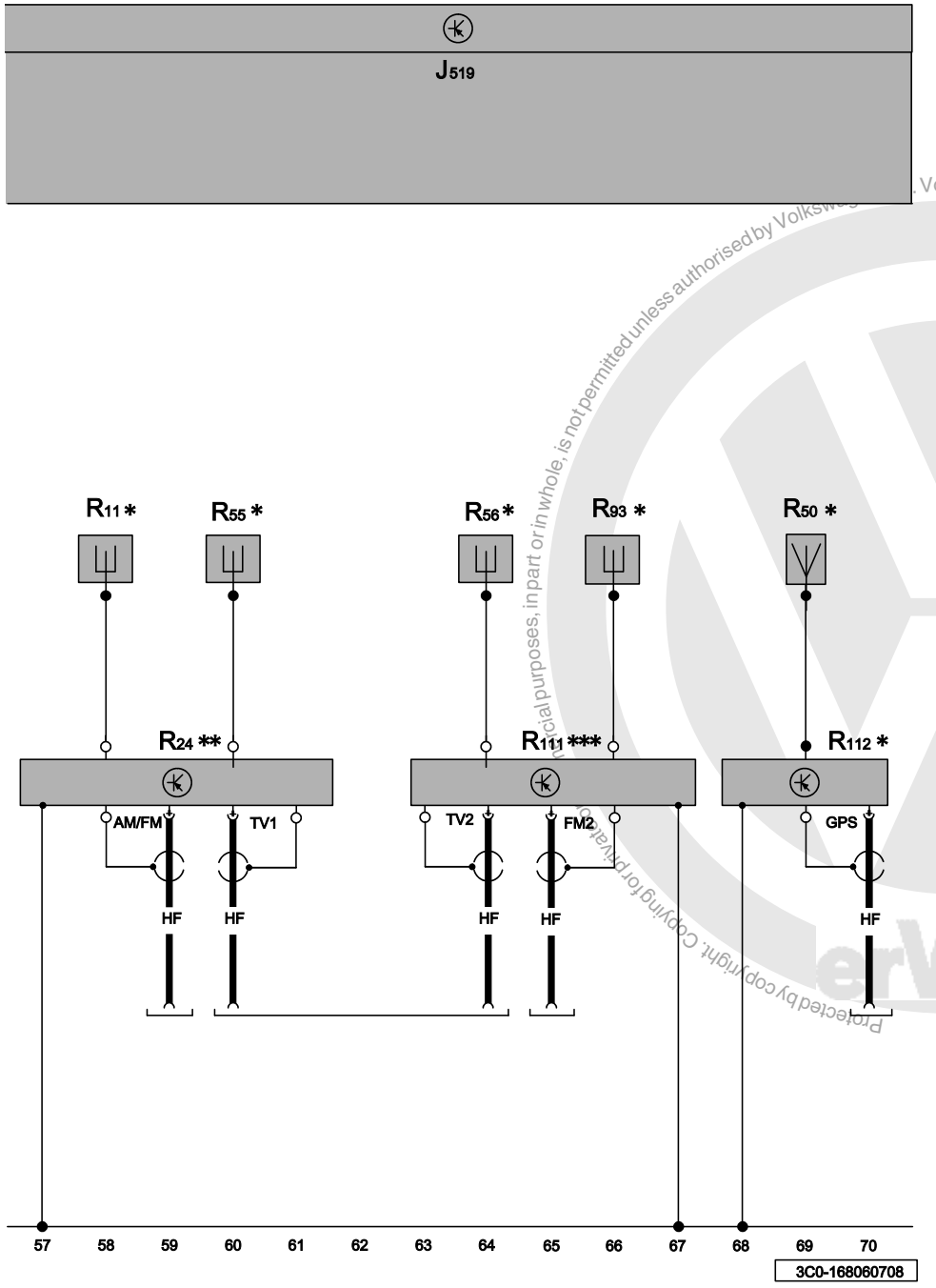
J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R55	TV aerial 1
R56	TV aerial 2
R93	Radio aerial 2
R111	Aerial amplifier 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector, black
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36, in main wiring harness
*	Only saloon models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Aerials (Variant), aerial amplifier

J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	Navigation system aerial
R55	TV aerial 1
R56	TV aerial 2
R93	Radio aerial 2
R111	Aerial amplifier 2
R112	Aerial amplifier 3
*	Only Variant
**	Only Variant models, in left C-pillar
***	Only on Variant models, in right C-pillar



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
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2.0 l/110 kW - Motronic, engine codes BLX, BVX, BVY, BVZ

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

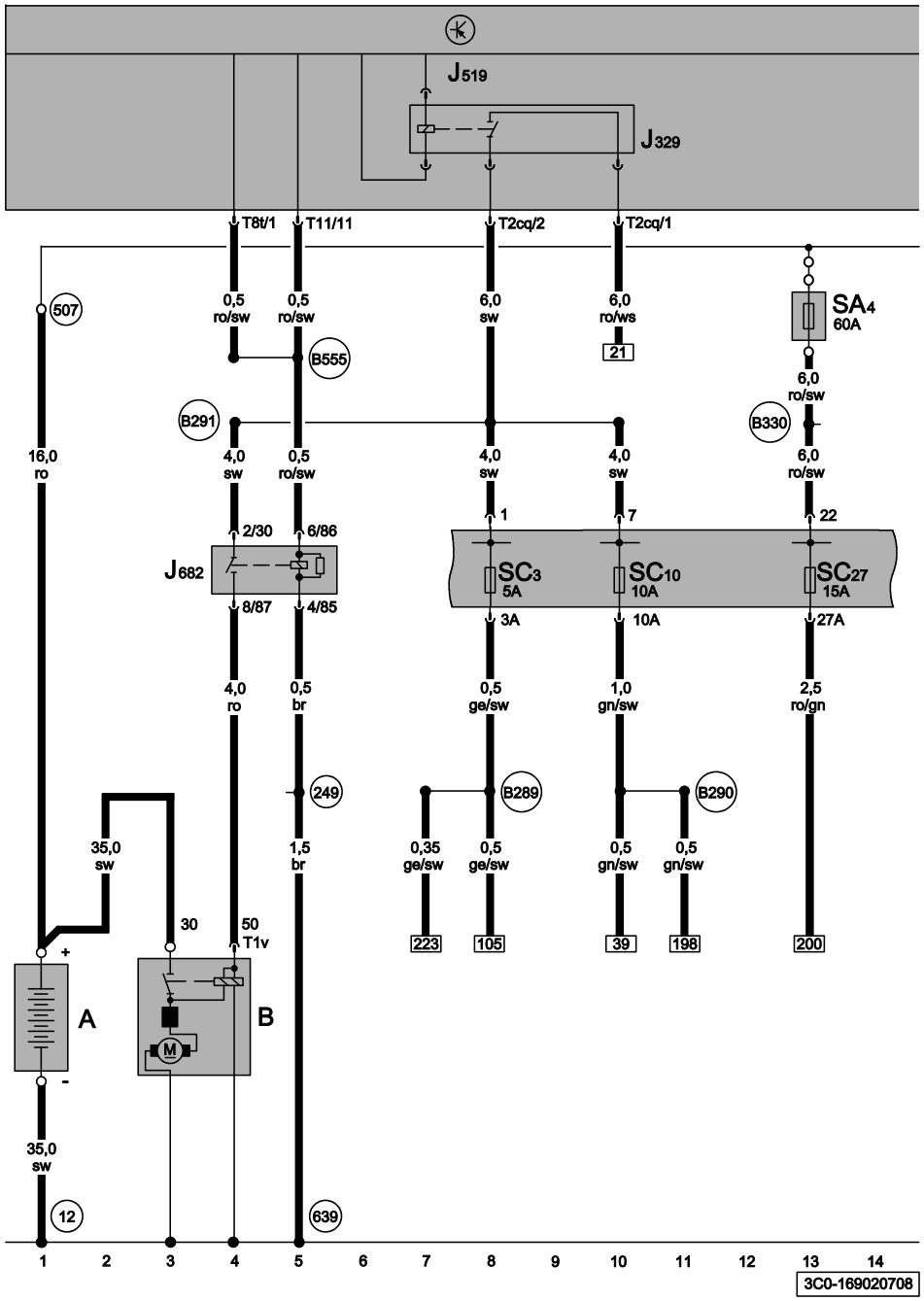
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

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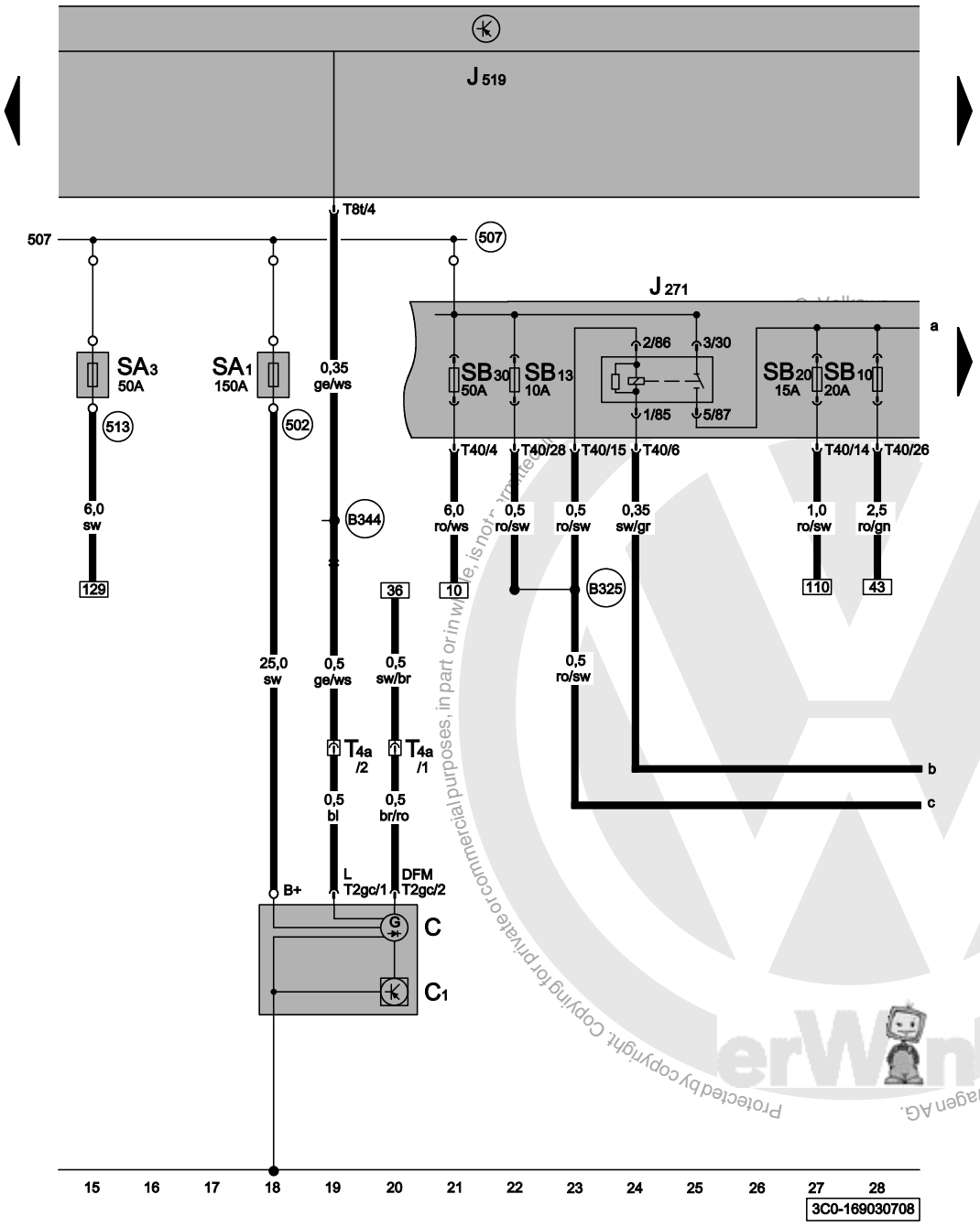


Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay
SA4	Fuse 4 on fuse holder A
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
507	Threaded connection (30), on battery fuse holder
639	Earth point, left A-pillar
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B330	Connection 19 (30a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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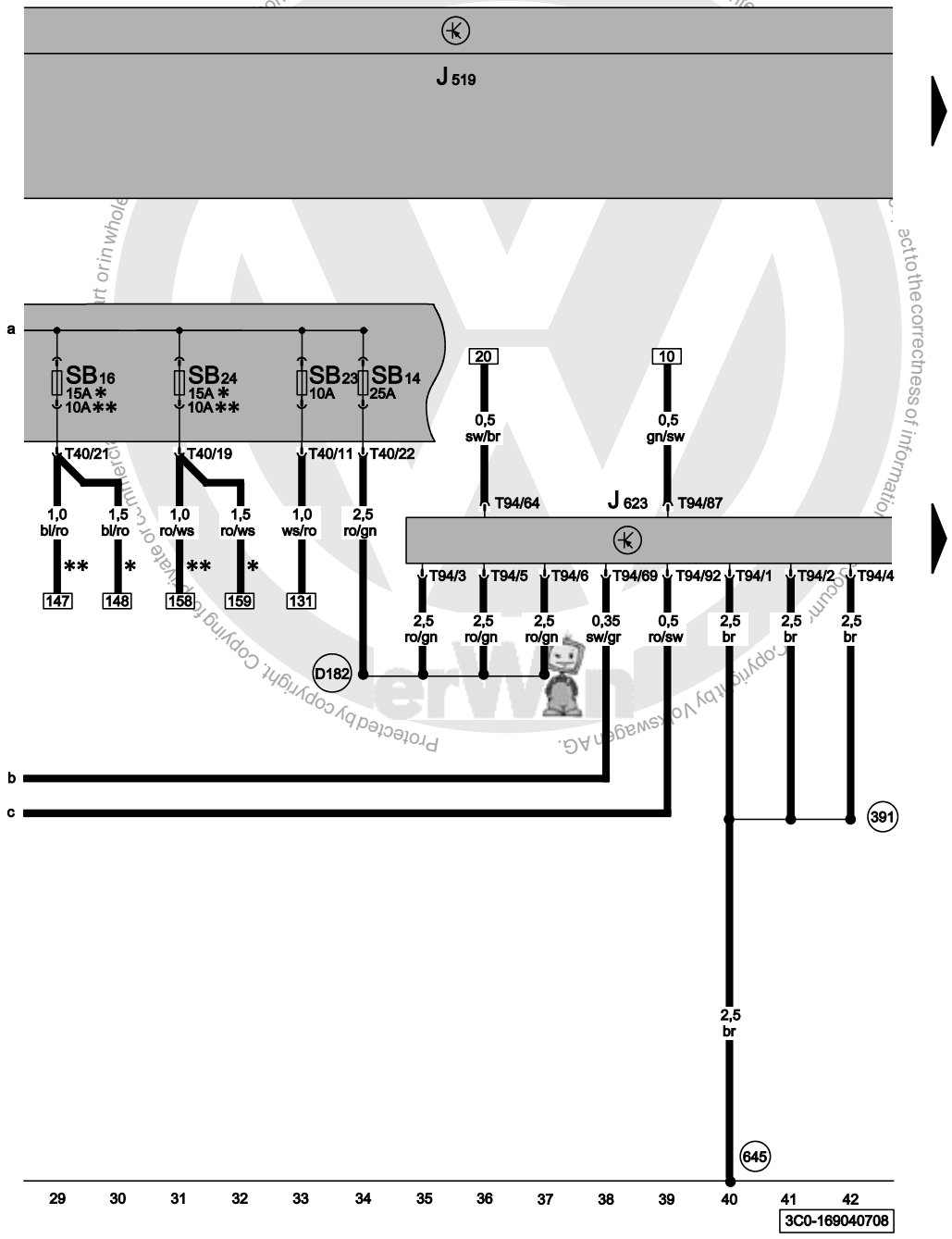


Alternator, voltage regulator, Motronic current supply relay, fuses

C	Alternator
C1	Voltage regulator
J271	Motronic current supply relay (458)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB30	Fuse 30 on fuse holder B
T2gc	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
B325	Connection 11 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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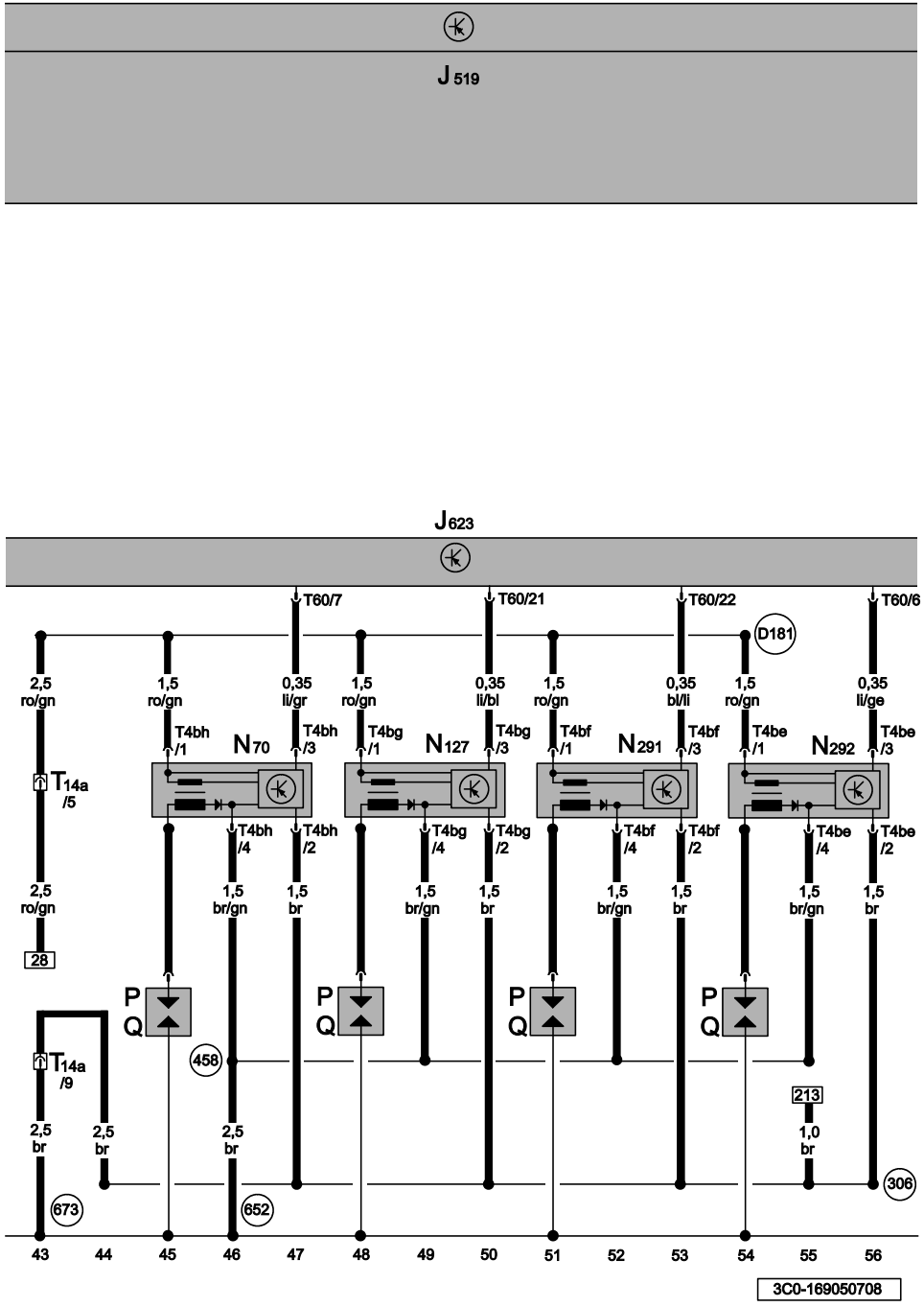


Engine control unit, fuses SB

J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
T40	40-pin connector
T94	94-pin connector
391	Earth connection 26, in main wiring harness
645	Earth point 1, on bulkhead
D182	Connection 3 (87a), in engine compartment wiring harness
*	Only models with engine codes BLX, BVX, BVY
**	Only models with engine code BLZ

ws	=	white
sw	=	black
ro	=	red
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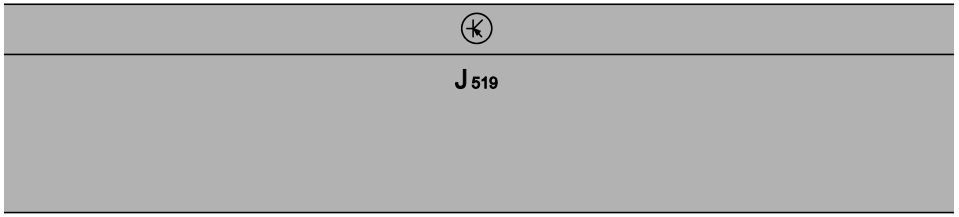


Engine control unit, ignition coils 1-4 with output stage, spark plugs, spark plug connectors

J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plug
T4be	4-pin connector
T4be	4-pin connector
T4bg	4-pin connector
T4bh	4-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
306	Earth connection (ignition coils), in engine prewiring harness
458	Earth point 3, engine prewiring harness
652	Earth point, engine and gearbox earth
673	Earth point 3, on front of left longitudinal member
D181	Connection 2 (87a), in engine compartment wiring harness

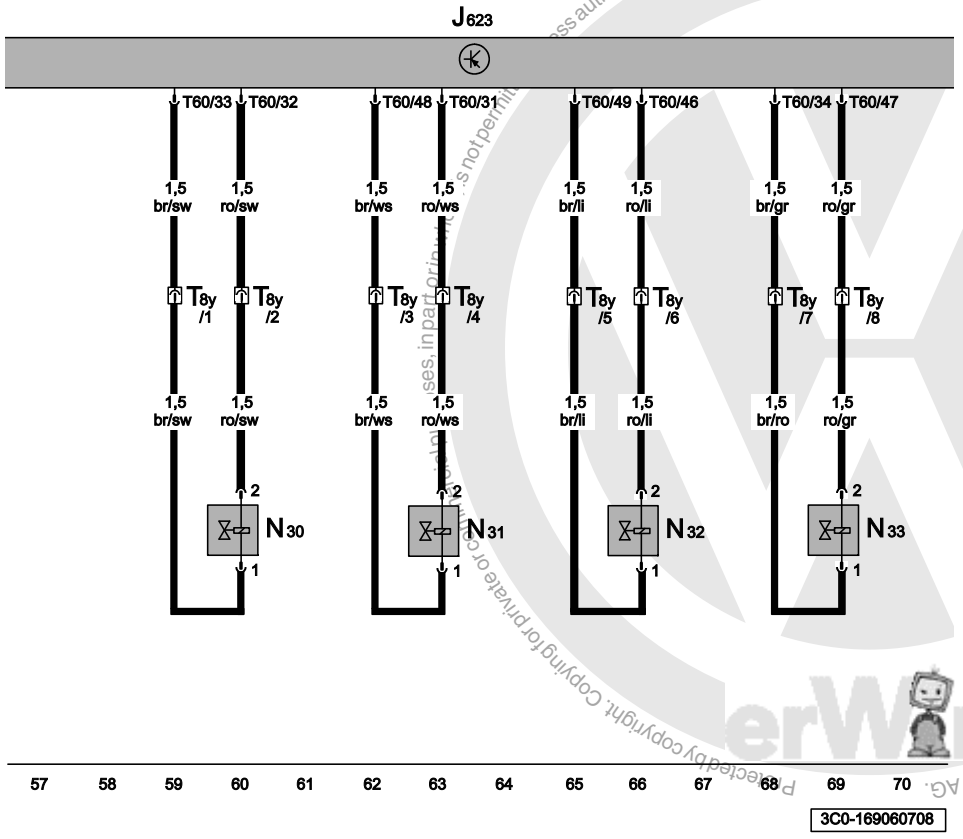
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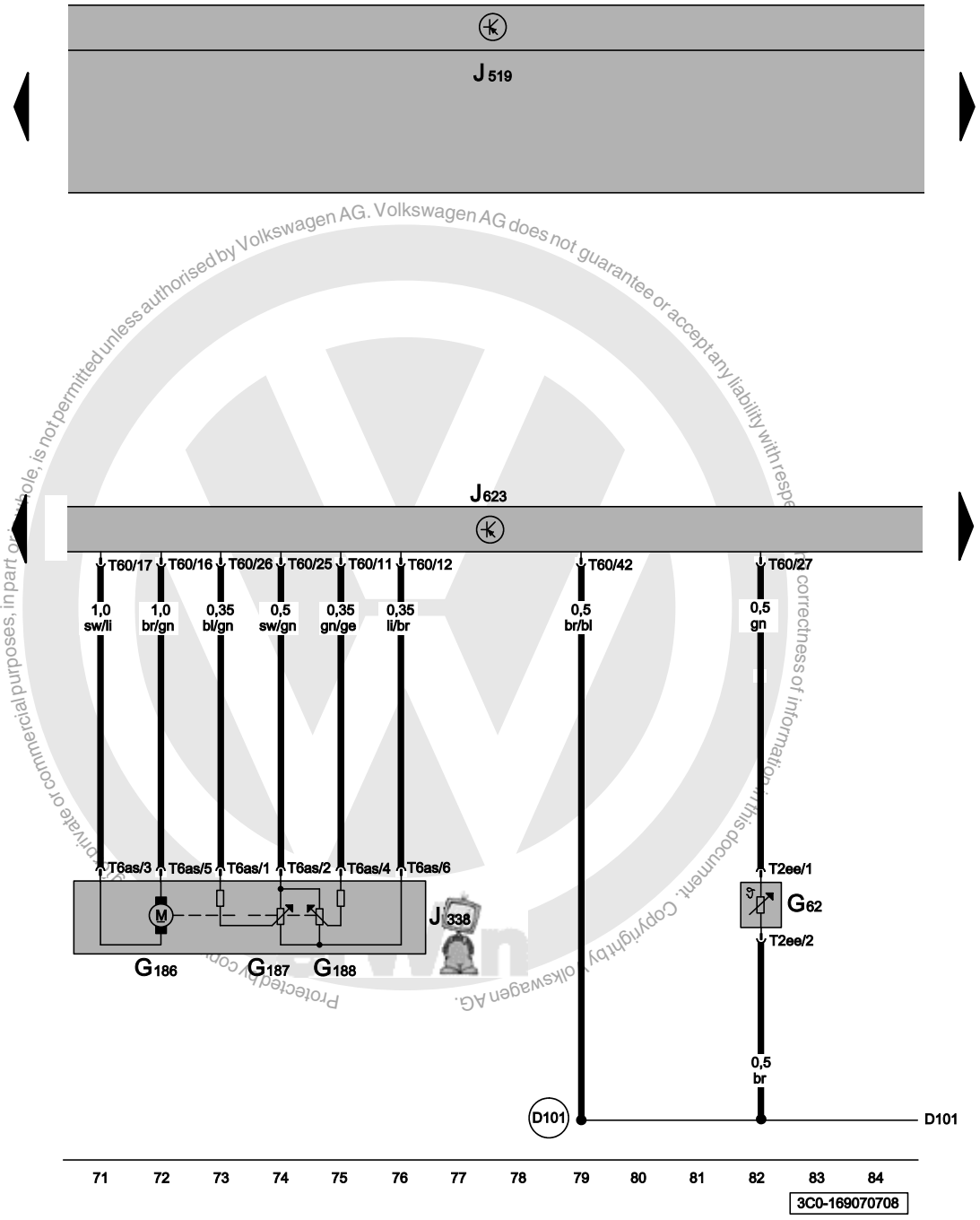
Engine control unit, injectors for cylinders 1-4

J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8y	8-pin connector, black, near cylinder head
T60	60-pin connector



ws = white
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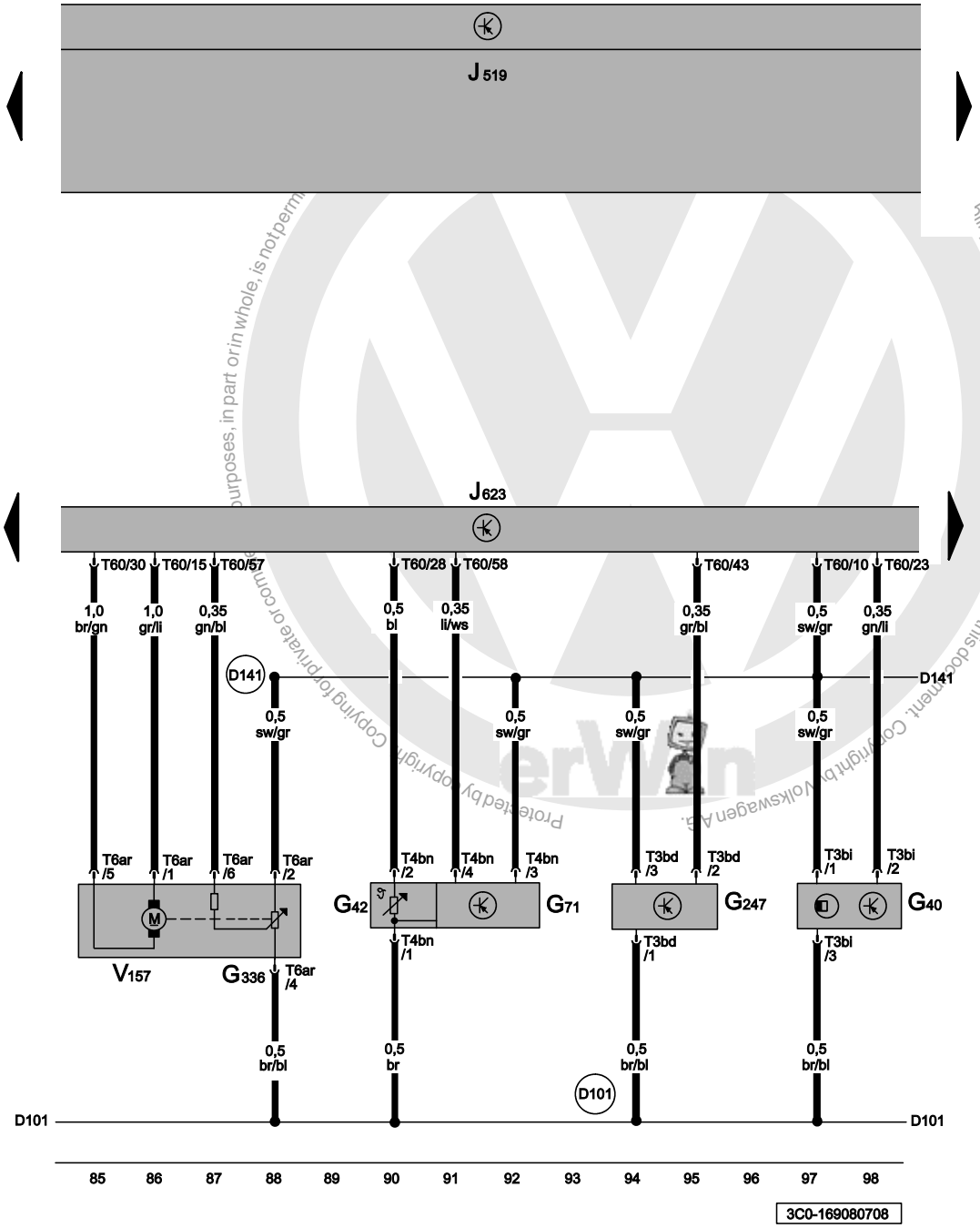


Engine control unit, throttle valve module, coolant temperature sender

G62	Coolant temperature sender
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
T2ee	2-pin connector
T6as	6-pin connector
T60	60-pin connector
D101	Connection 1, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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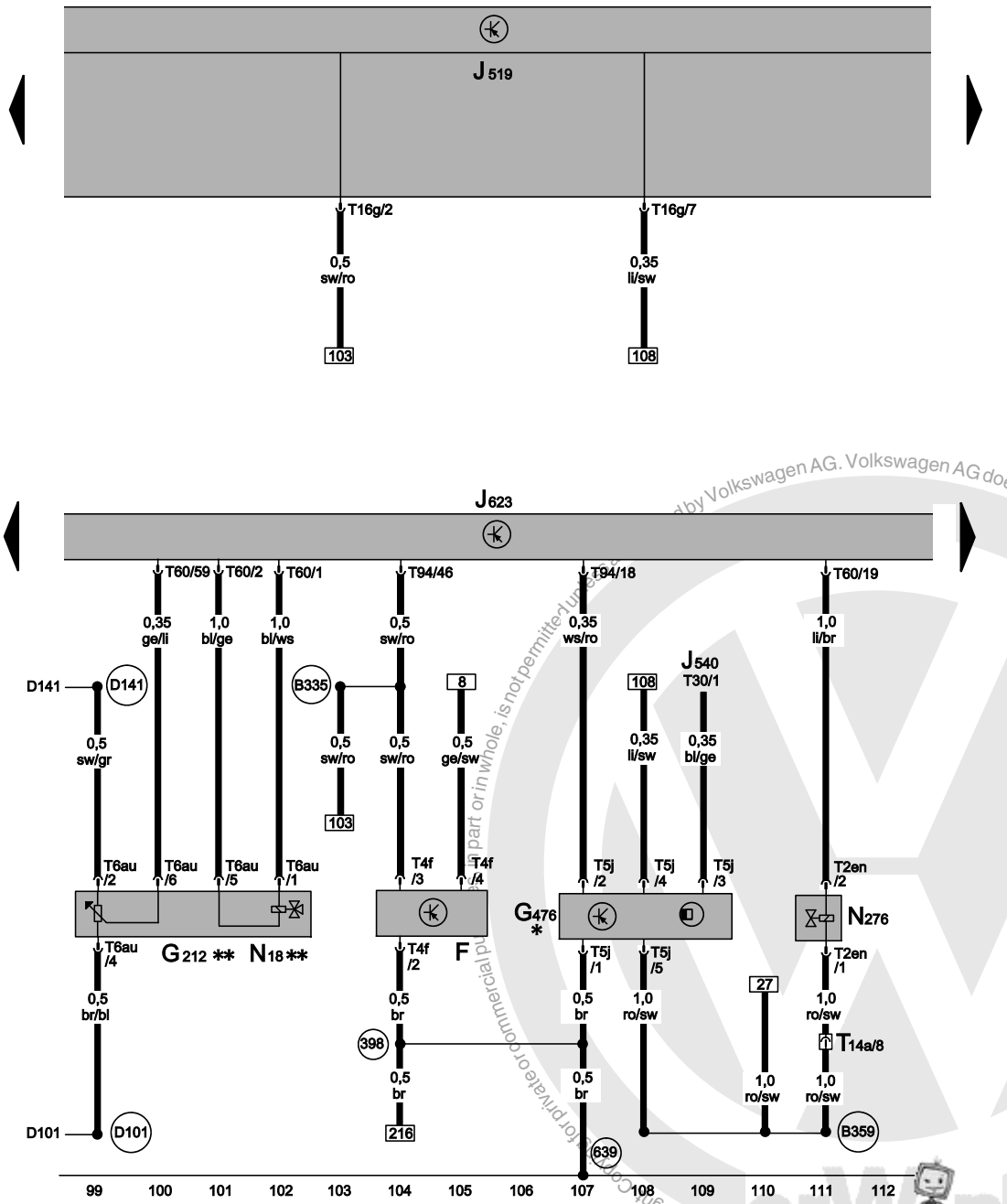


Engine control unit, intake air temperature sender, fuel pressure sender, coolant temperature sender, intake manifold flap potentiometer

G40	Hall sender
G42	Intake air temperature sender
G71	Intake manifold pressure sender
G247	Fuel pressure sender
G336	Intake manifold flap potentiometer
J519	Onboard supply control unit
J623	Engine control unit
T3bd	3-pin connector
T3bi	3-pin connector
T4bn	4-pin connector
T6ar	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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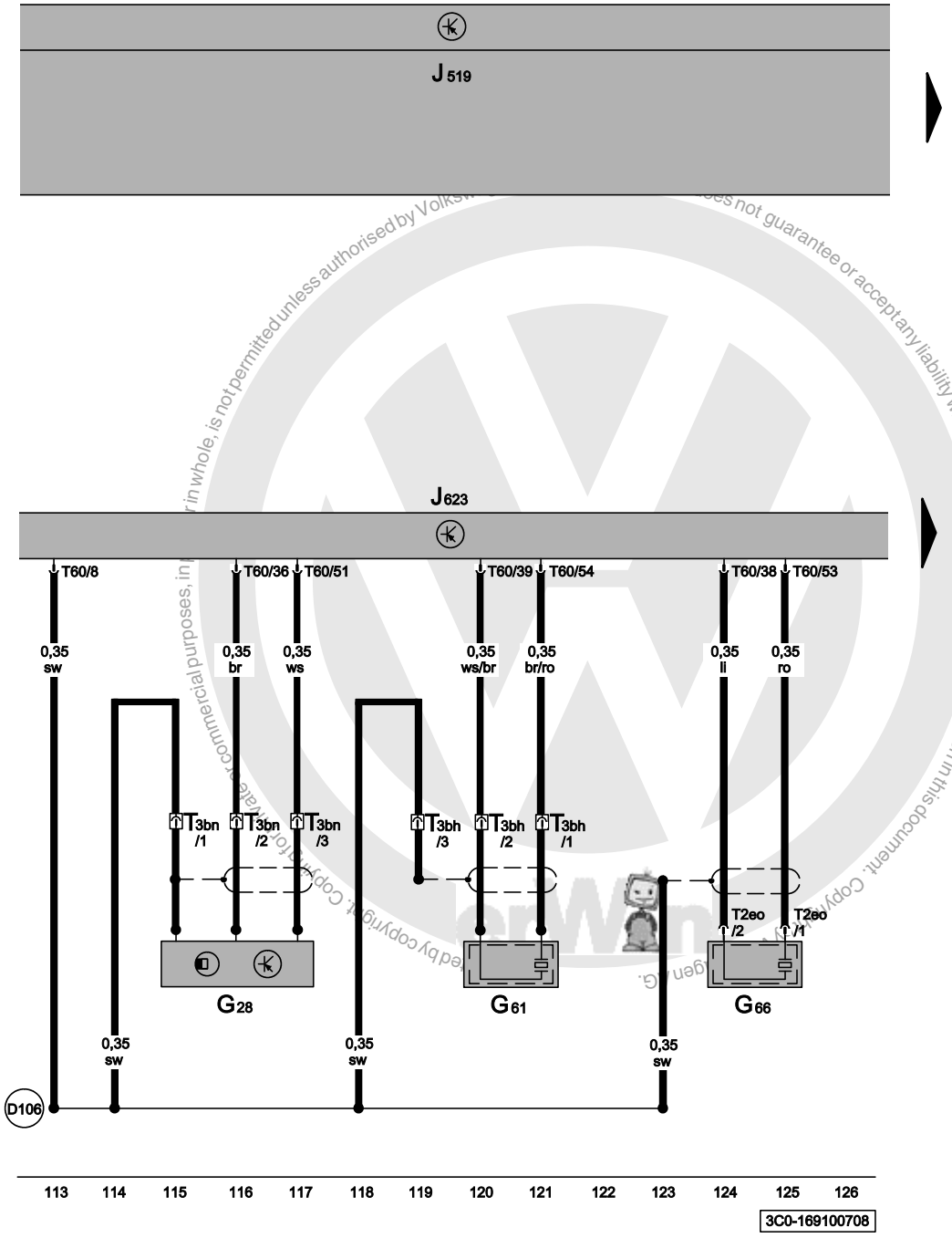


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, fuel pressure regulating valve, clutch position sender, brake light switch, exhaust gas recirculation valve, exhaust gas recirculation valve

F	Brake light switch
G212	Exhaust gas recirculation potentiometer
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
N18	Exhaust gas recirculation valve
N276	Fuel pressure regulating valve
T2en	2-pin connector
T4f	4-pin connector
T5j	5-pin connector
T6au	6-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T16g	16-pin connector
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B359	Connection 10 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness
*	Only models with manual gearbox
**	Only models with engine codes BLX, BVX, BVY

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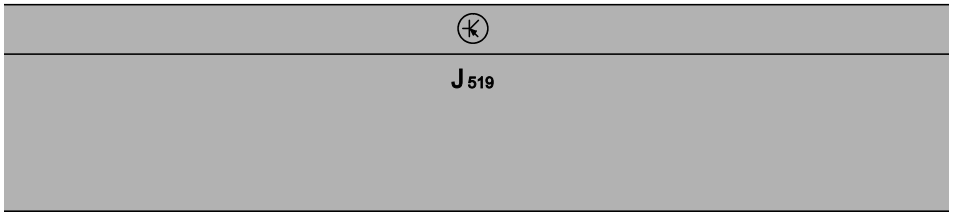


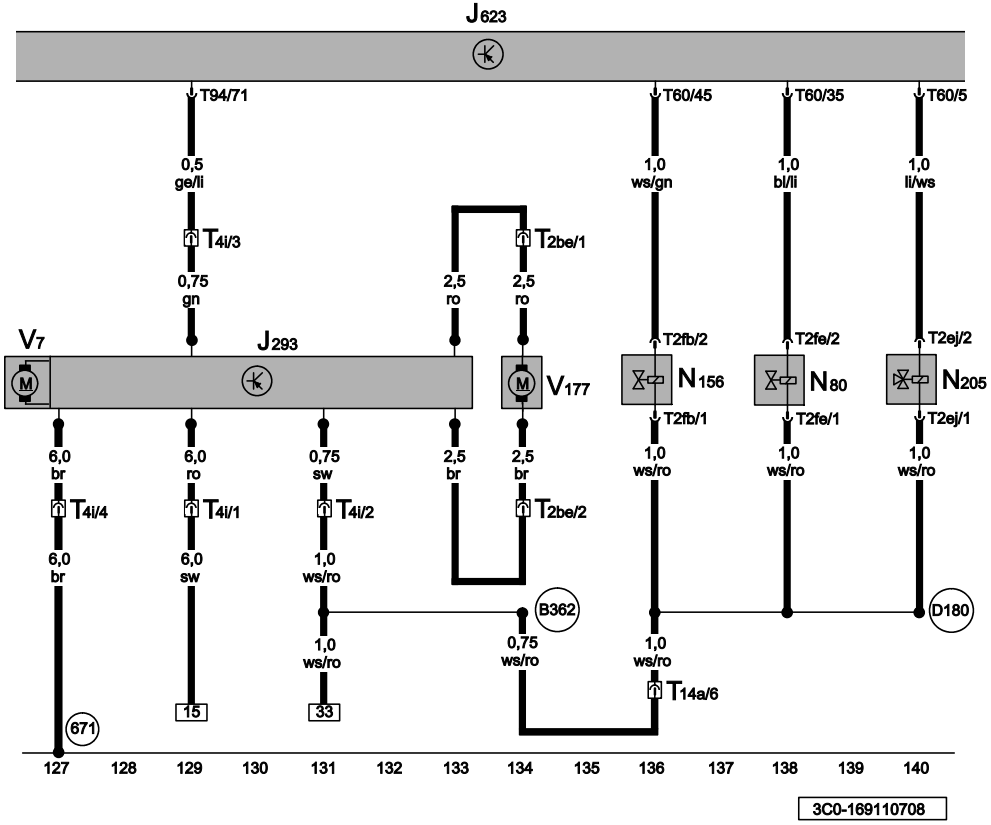
Engine control unit, engine speed sender, knock sensors 1 and 2

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J519	Onboard supply control unit
J623	Engine control unit
T2eo	2-pin connector, black
T3bh	3-pin connector, black
T3bn	3-pin connector, grey
T60	60-pin connector
D106	Connection 4, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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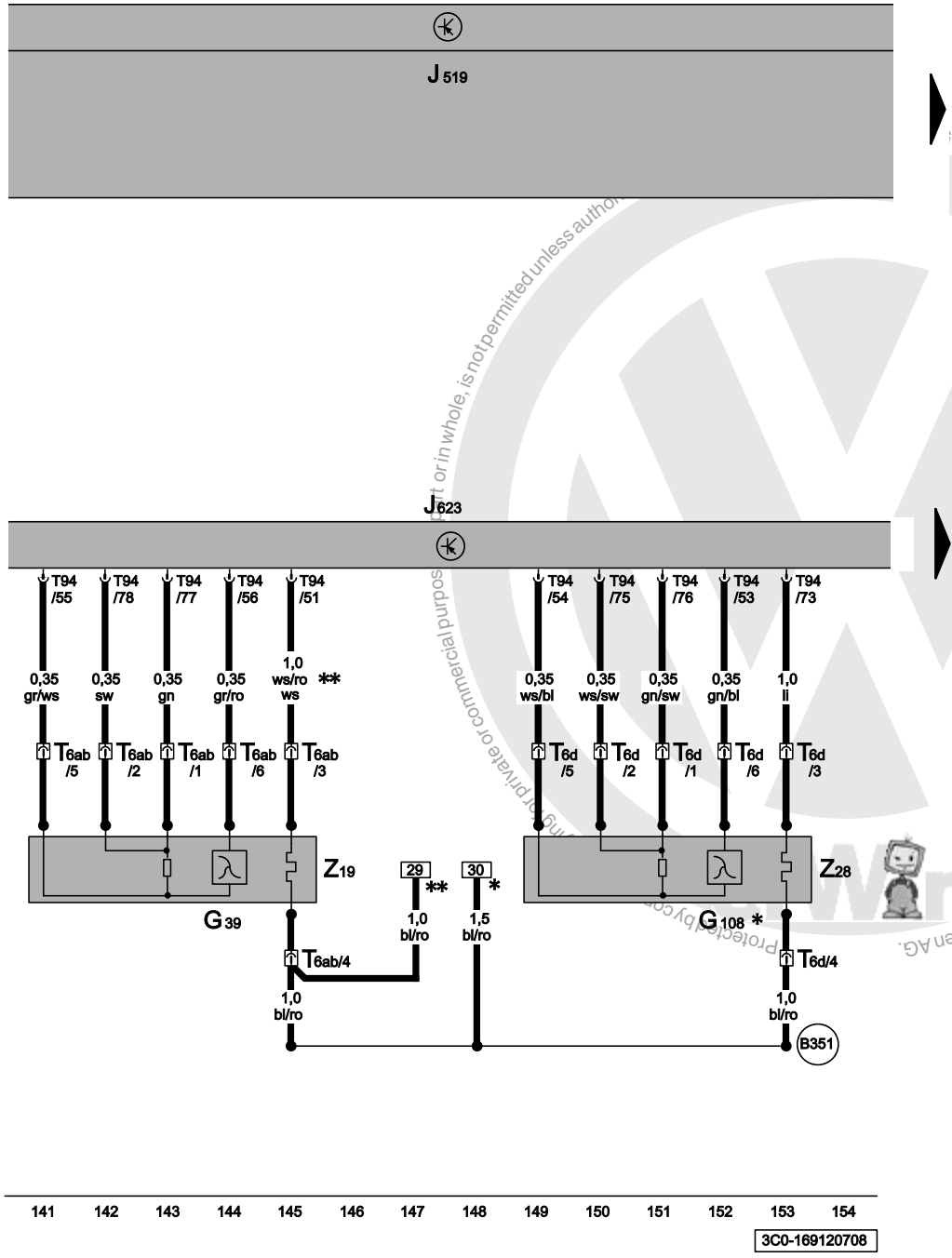


Engine control unit, radiator fan control unit, activated charcoal filter system solenoid valve 1, camshaft control valve 1, variable intake manifold changeover valve, radiator fan

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N80	Activated charcoal filter solenoid valve 1
N156	Variable intake manifold changeover valve
N205	Camshaft control valve 1
T2be	2-pin connector, on lock carrier
T2ej	2-pin connector
T2fb	2-pin connector
T2fe	2-pin connector
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B362	Connection 13 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
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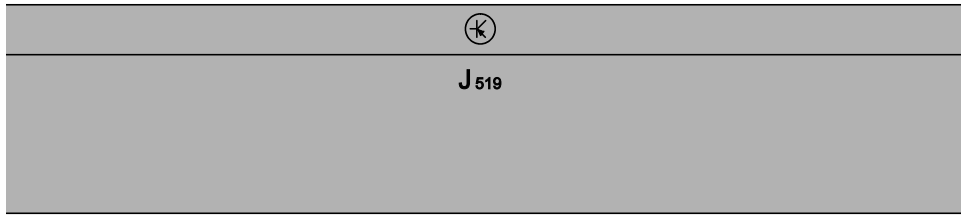


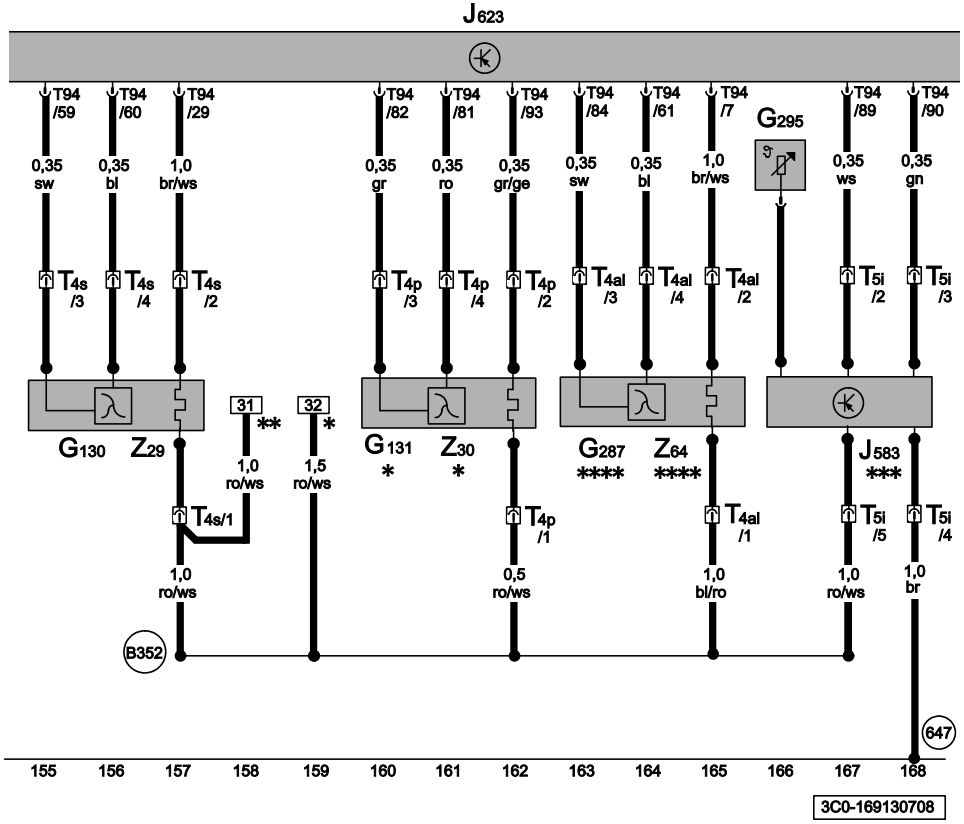
Engine control unit, Lambda probe, Lambda probe 2

G39	Lambda probe
G108	Lambda probe 2
J519	Onboard supply control unit
J623	Engine control unit
T6ab	6-pin connector, black, coupling point for Lambda probe
T6d	6-pin connector, black, coupling point for Lambda probe
T94	94-pin connector
Z19	Lambda probe heater
Z28	Lambda probe heater 2
B351	Connection 2 (87a), in main wiring harness
*	Only models with engine codes BLX, BVX, BVY
**	Only models with engine code BLZ

ws	=	white
sw	=	black
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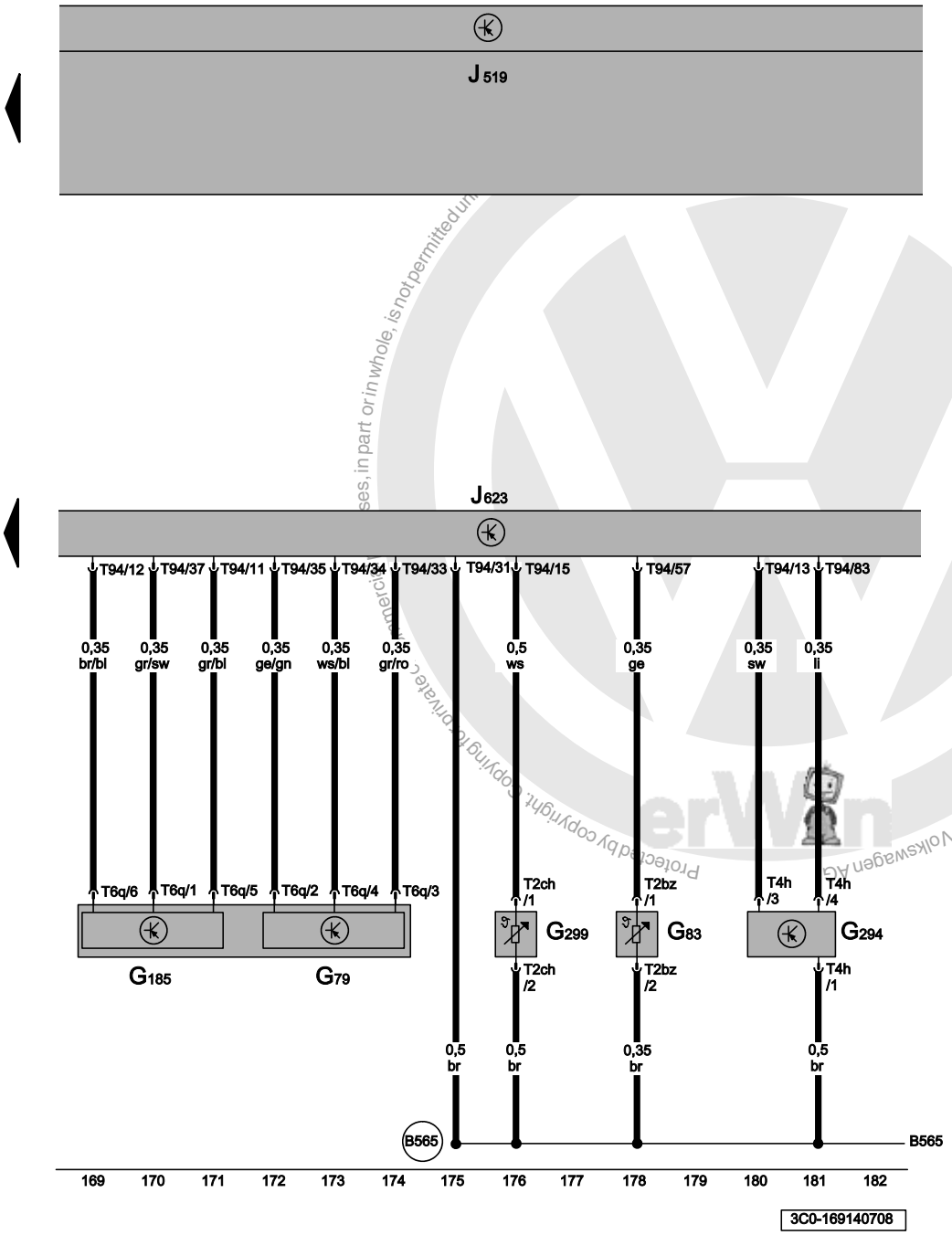


Engine control unit, Lambda probe after catalytic converter, NOx sender control unit, NOx sender

G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter
G287	Lambda probe 3 after catalytic converter
G295	NOx sender
J519	Onboard supply control unit
J583	NOx sender control unit
J623	Engine control unit
T4p	4-pin connector, coupling point for Lambda probe
T4s	4-pin connector, coupling point for Lambda probe
T4al	4-pin connector, coupling point for Lambda probe
T5i	5-pin connector
T94	94-pin connector
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
Z64	Lambda probe 3 heater after catalytic converter
647	Earth point 3, on bulkhead
B352	Connection 3 (87a), in main wiring harness
*	Only models with engine codes BLX, BVX, BVY
**	Only models with engine code BLZ
***	Only models with engine codes BLX, BVX
****	Only models with engine code BVY

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sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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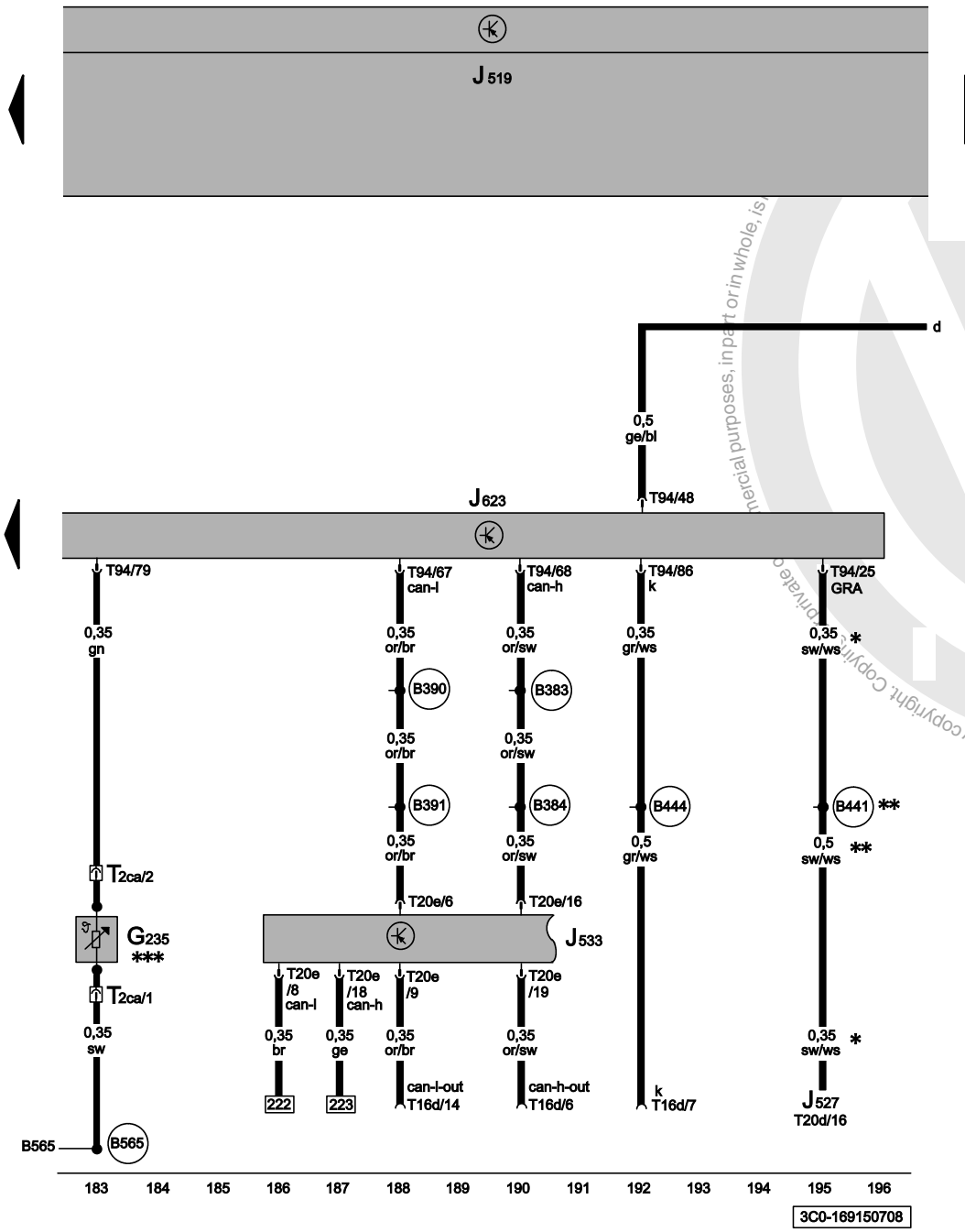


Engine control unit, accelerator position sender, radiator outlet coolant temperature sender, brake servo pressure sensor, intake air temperature sender 2

G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
G294	Brake servo pressure sensor
G299	Intake air temperature sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector
T2ch	2-pin connector
T4h	4-pin connector
T6q	6-pin connector
T94	94-pin connector
B565	Connection 32, in main wiring harness

ws	=	white
sw	=	black
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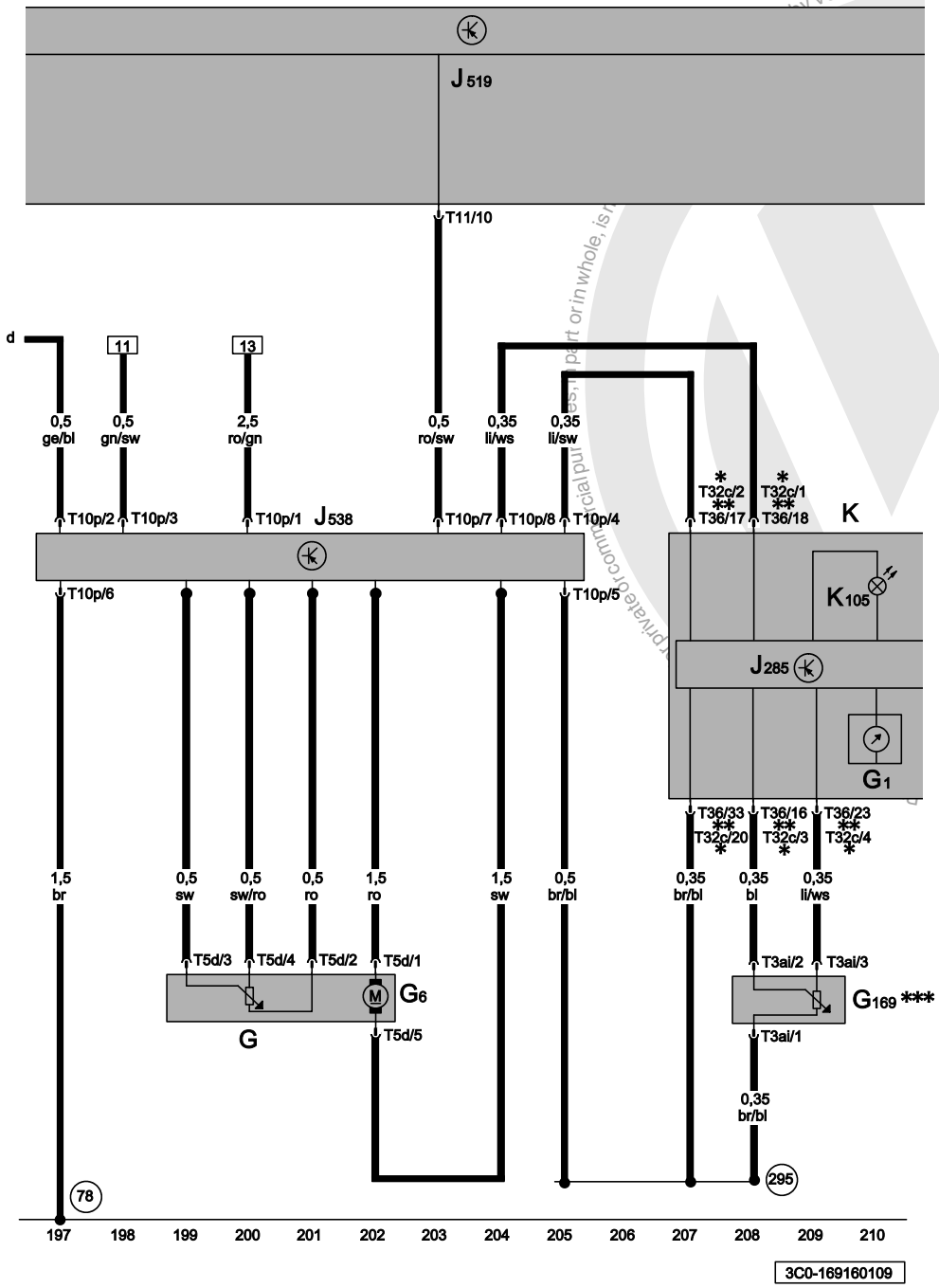


Engine control unit, data bus diagnostic interface, self-diagnosis connection, exhaust gas temperature sender 1

G235	Exhaust temperature sender 1
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
J623	Engine control unit
T2ca	2-pin connector, black, coupling point for Lambda probe
T16d	16-pin connector, self-diagnosis connection
T20d	20-pin connector
T20e	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
B565	Connection 32, in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control
***	Only models with engine codes BLX, BVX

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sw	=	black
ro	=	red
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gn	=	green
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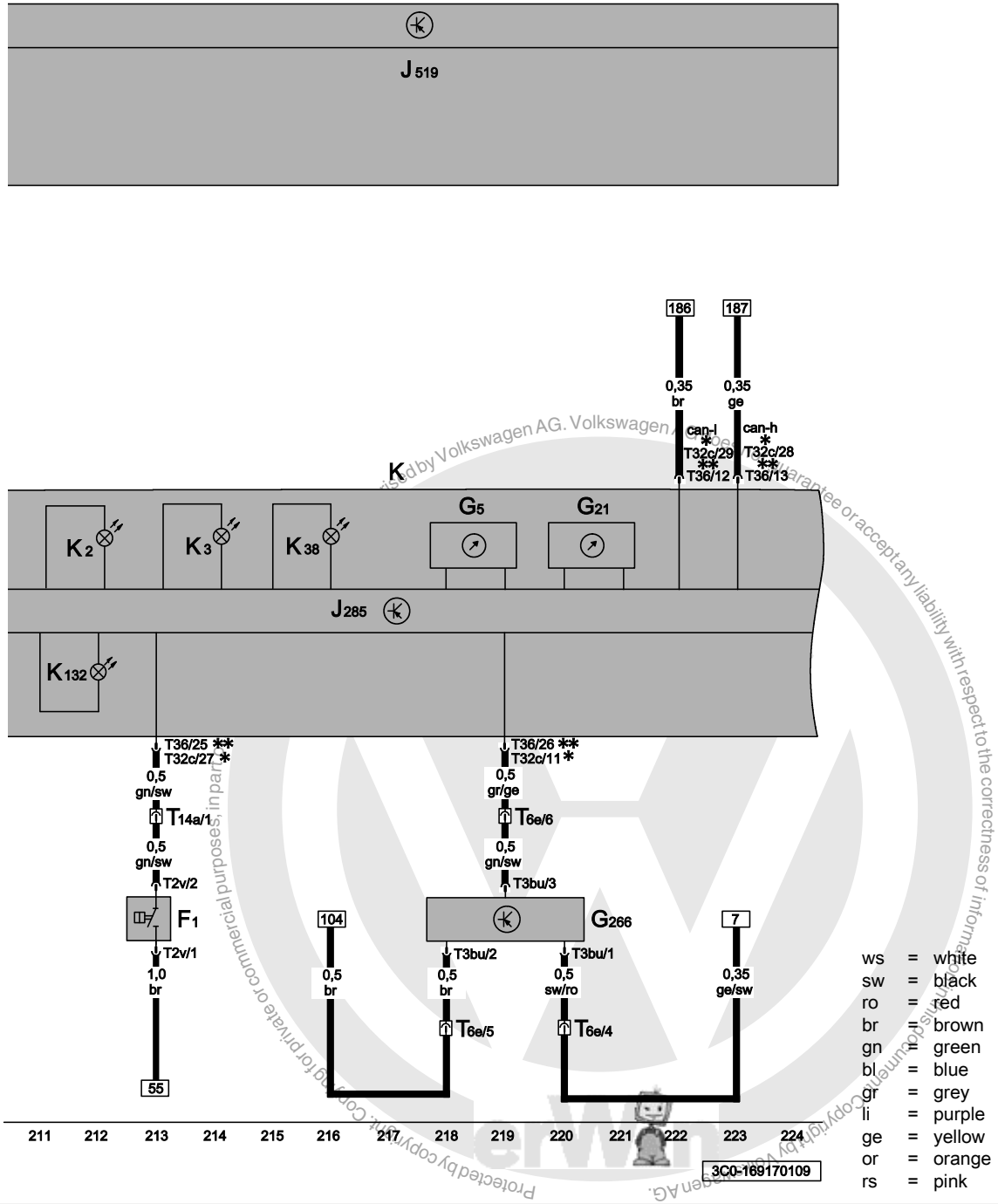


Fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump, fuel gauge sender

G	Fuel gauge sender
G1	Fuel gauge
G6	Fuel system pressurisation pump
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J538	Fuel pump control unit
K	Dash panel insert
K105	Reserve fuel warning lamp
T3ai	3-pin connector
T5d	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T32c	32-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008
***	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender, rev. counter, speedometer

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T2v	2-pin connector, black, in engine compartment
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
*	Applicable from November 2008
**	Applicable up to October 2008

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2.0 l/147 kW - Motronic, engine code BPY

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

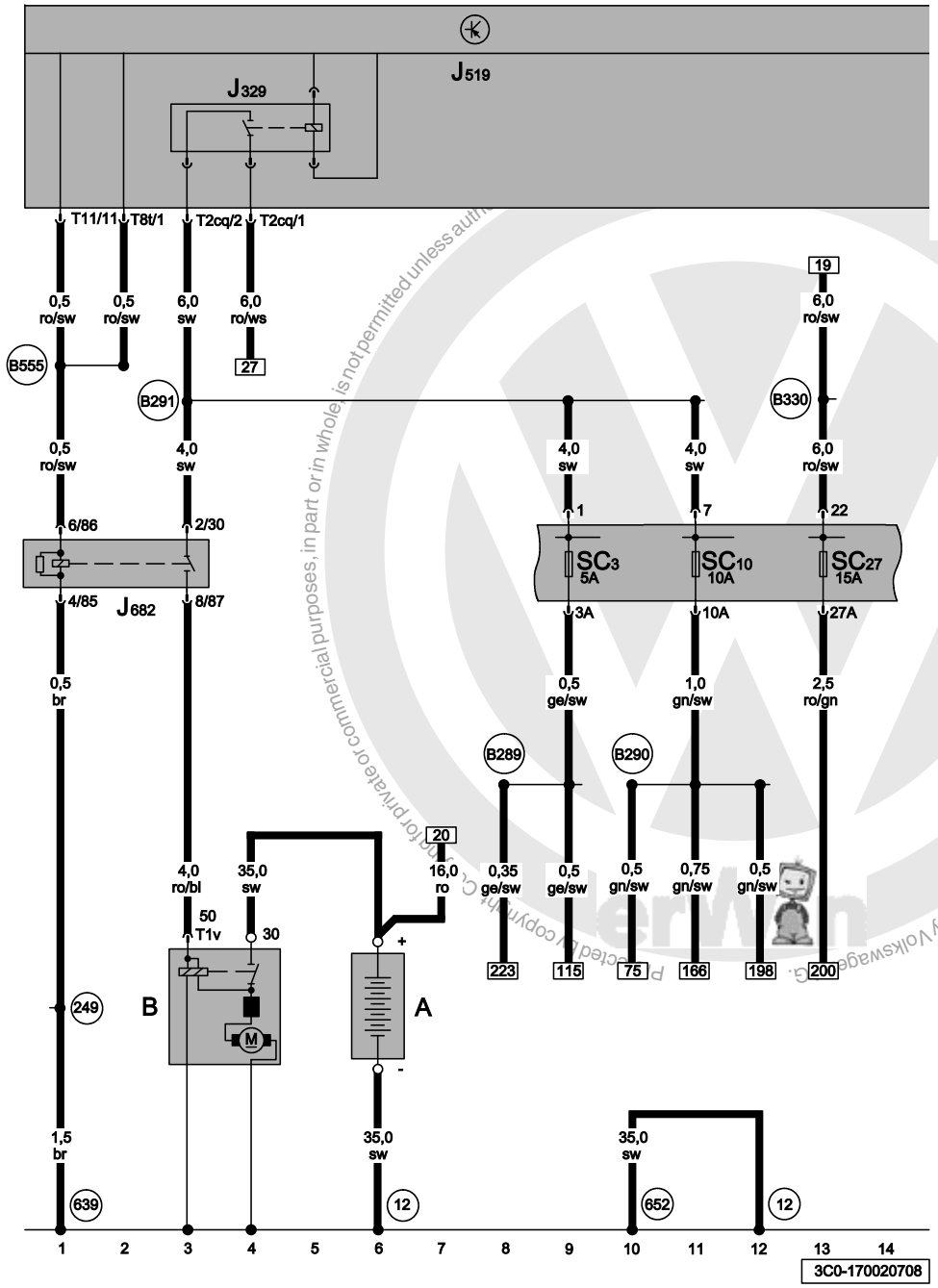
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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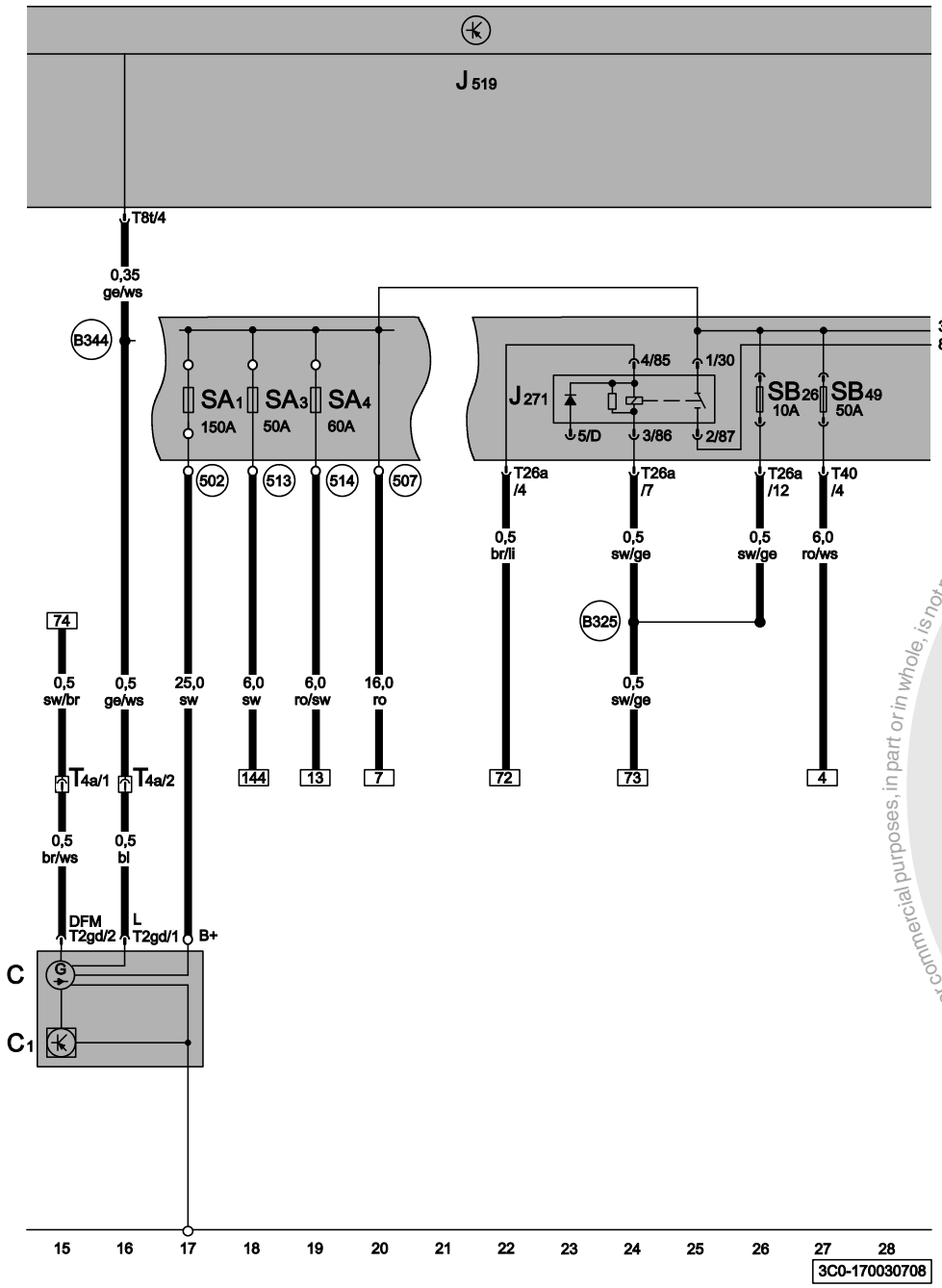


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Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J519	Onboard supply control unit
J329	Terminal 15 voltage supply relay
J682	Terminal 50 voltage supply relay, on relay carrier on left under dash panel
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness

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Alternator, current supply relay for Motronic, fuses SA and SB

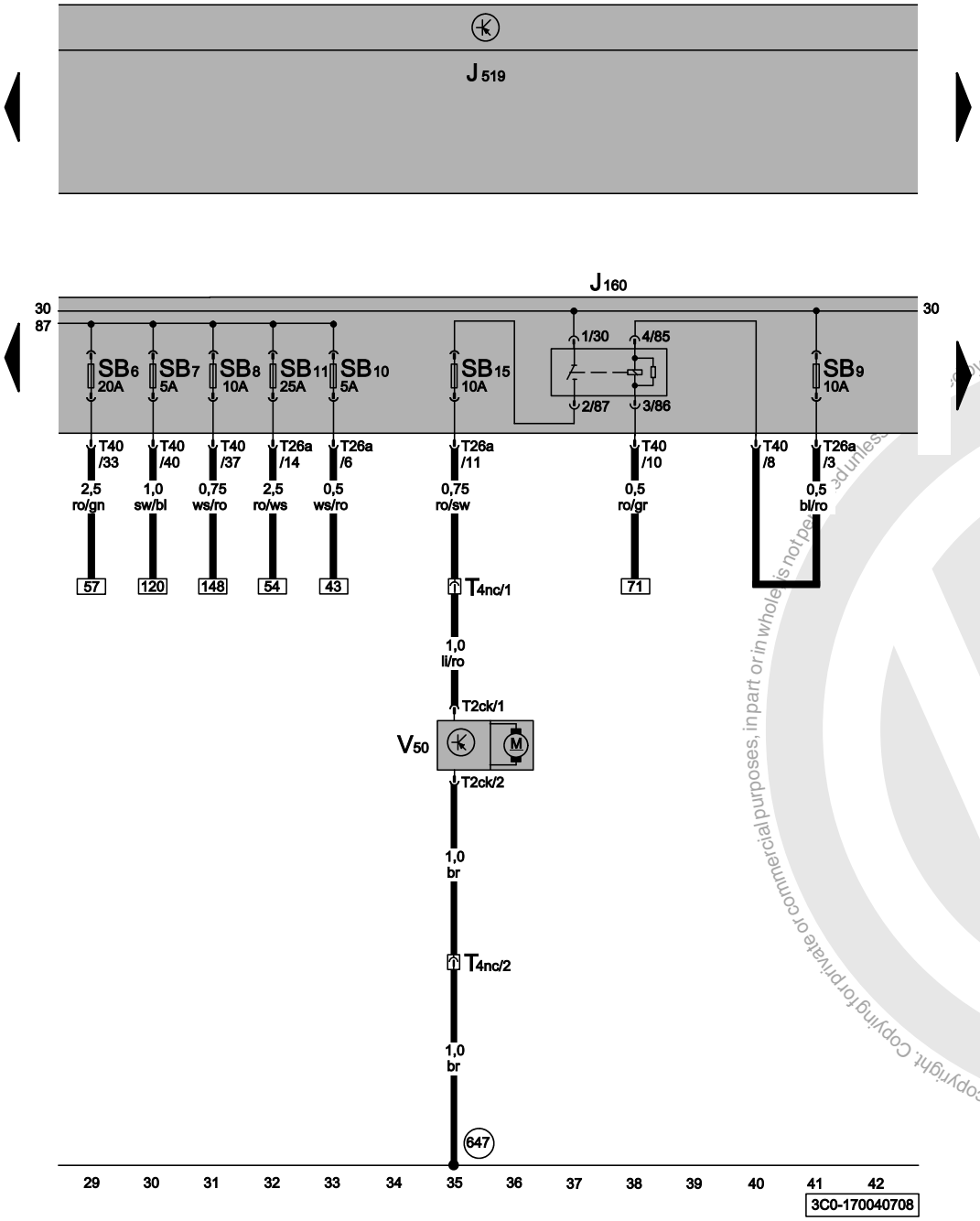
C	Alternator
C1	Voltage regulator
J271	Motronic current supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SB26	Fuse 26 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T26a	26-pin connector, on E-box
T40	40-pin connector, on E-box
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B325	Connection 11 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness

ws	=	white
sw	=	black
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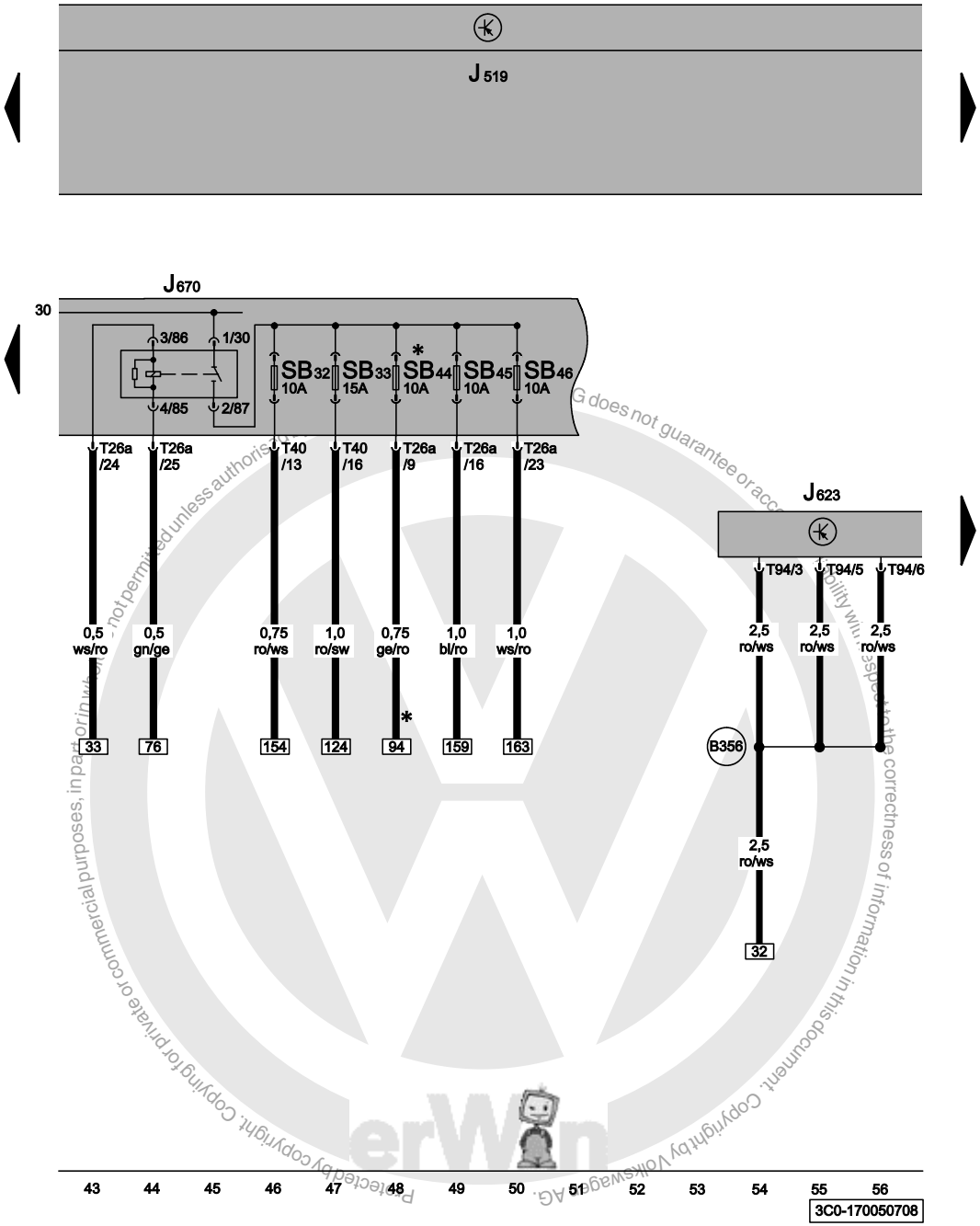
Circulation pump relay, fuses SB, coolant circulation pump

J160	Circulation pump relay
J519	Onboard supply control unit
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB8	Fuse 8 on fuse holder B
SB9	Fuse 9 on fuse holder B
SB10	Fuse 10 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB15	Fuse 15 on fuse holder B
T2ck	2-pin connector
T4nc	4-pin connector, black
T26a	26-pin connector
T40	40-pin connector
V50	Coolant circulation pump
647	Earth point 3, on bulkhead



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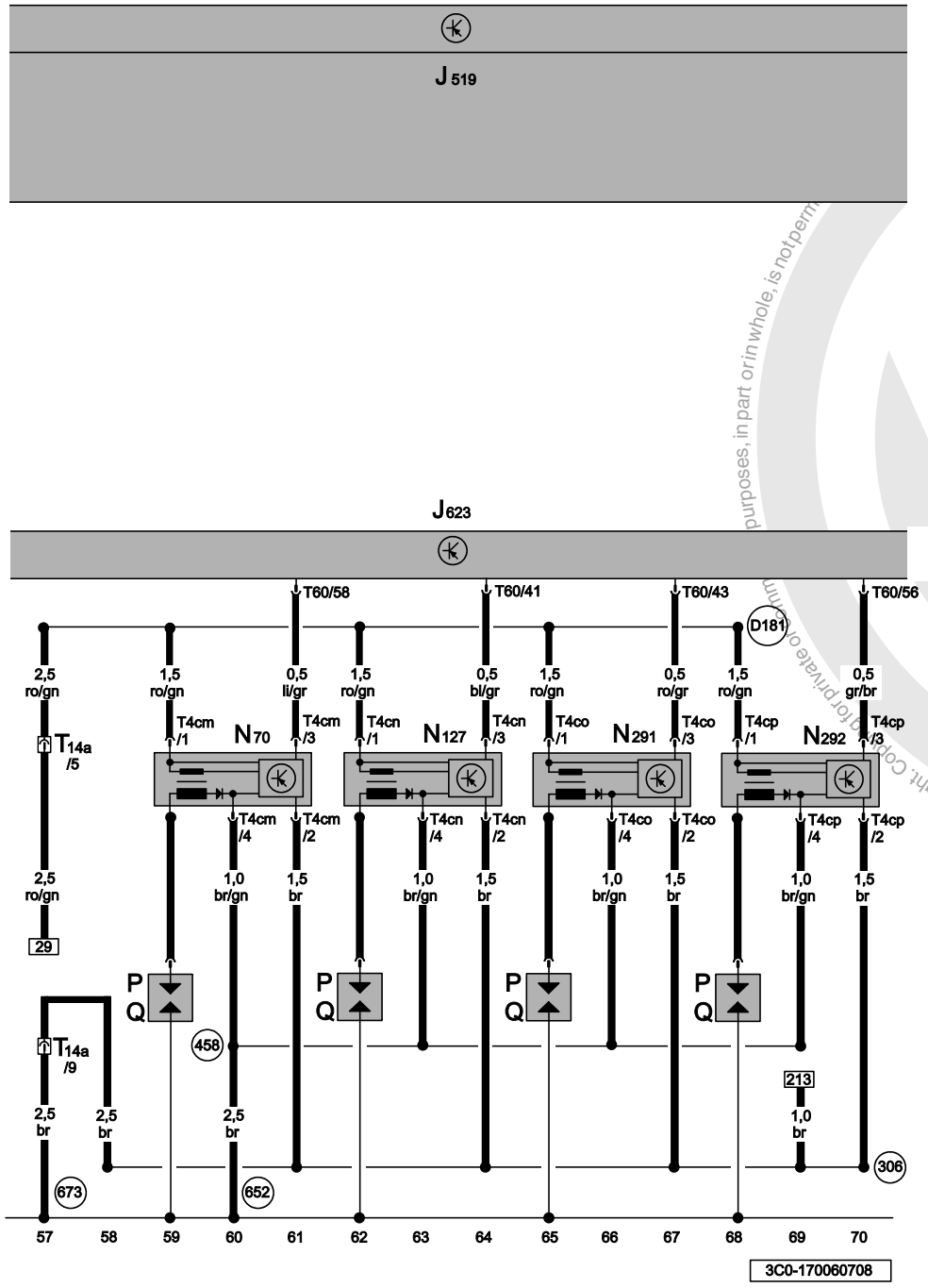


Engine control unit, Motronic current supply relay 2, fuses SB

J519	Onboard supply control unit
J623	Engine control unit
J670	Motronic current supply relay 2
SB32	Fuse 32 on fuse holder B
SB33	Fuse 33 on fuse holder B
SB44	Fuse 44 on fuse holder B
SB45	Fuse 45 on fuse holder B
SB46	Fuse 46 on fuse holder B
T26a	26-pin connector, on E-box
T40	40-pin connector, on E-box
T94	94-pin connector
B356	Connection 7 (87a), in main wiring harness
*	Only American markets

ws	=	white
sw	=	black
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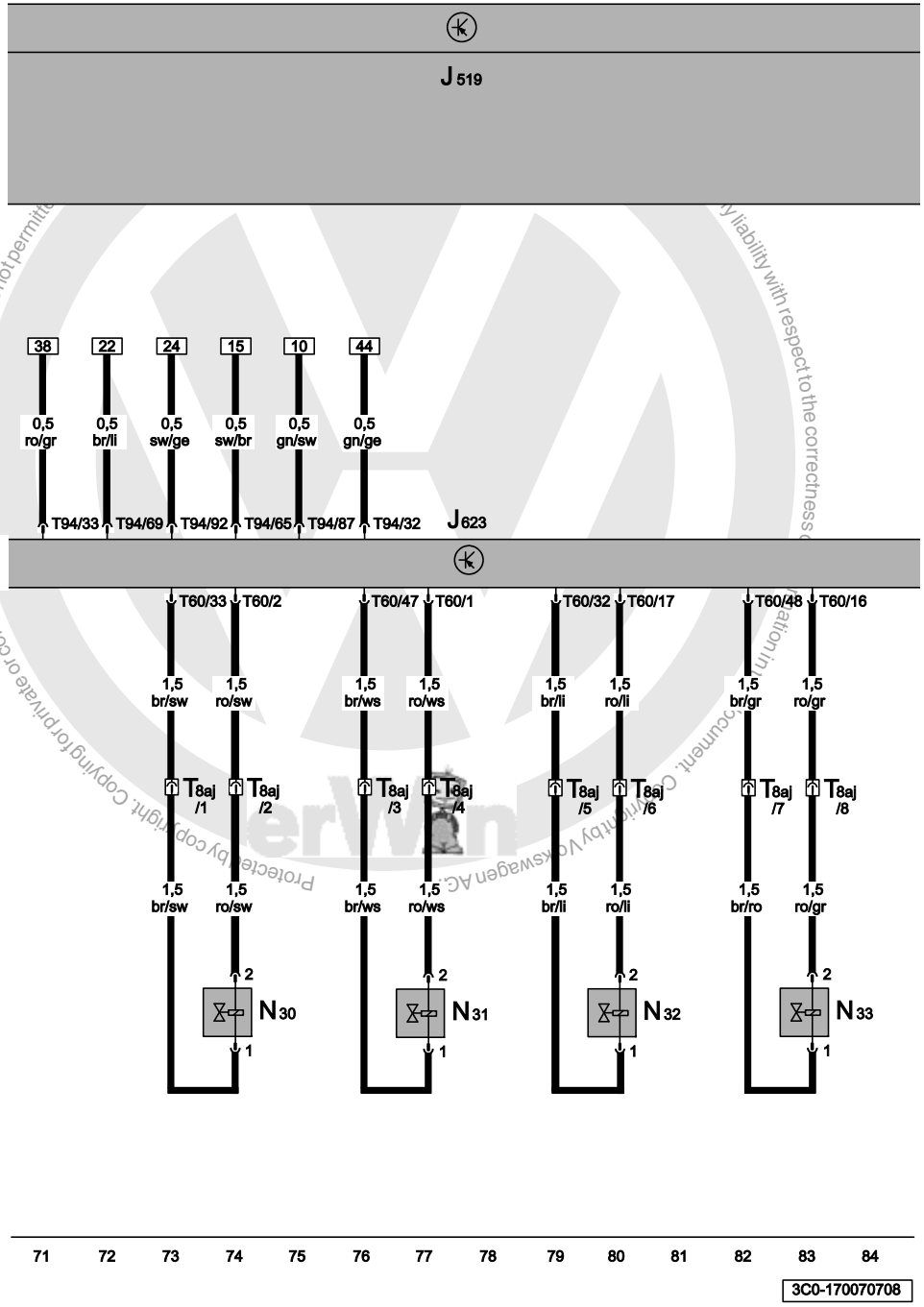


Engine control unit, ignition coils 1-4 with output stage, spark plugs, spark plug connectors

J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plug
T4cm	4-pin connector, black
T4cn	4-pin connector
T4co	4-pin connector
T4cp	4-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
(306)	Earth connection (ignition coils), in engine prewiring harness
(458)	Earth point 3, engine prewiring harness
(652)	Earth point, engine and gearbox earth
(673)	Earth point 3, on front of left longitudinal member
(D181)	Connection 2 (87a), in engine compartment wiring harness

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Engine control unit, injectors for cylinders 1-4

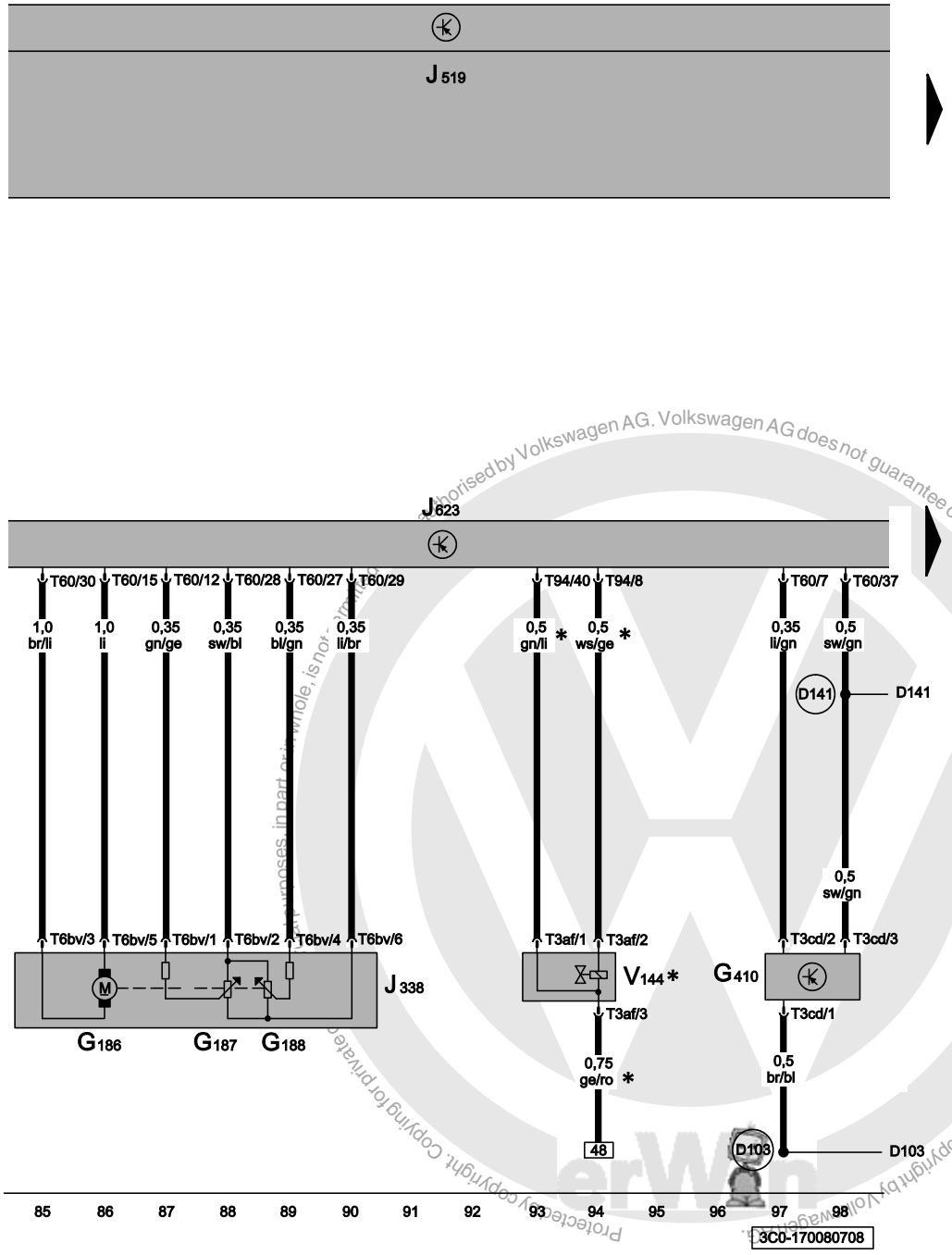
J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8aj	8-pin connector, black, near cylinder head
T60	60-pin connector
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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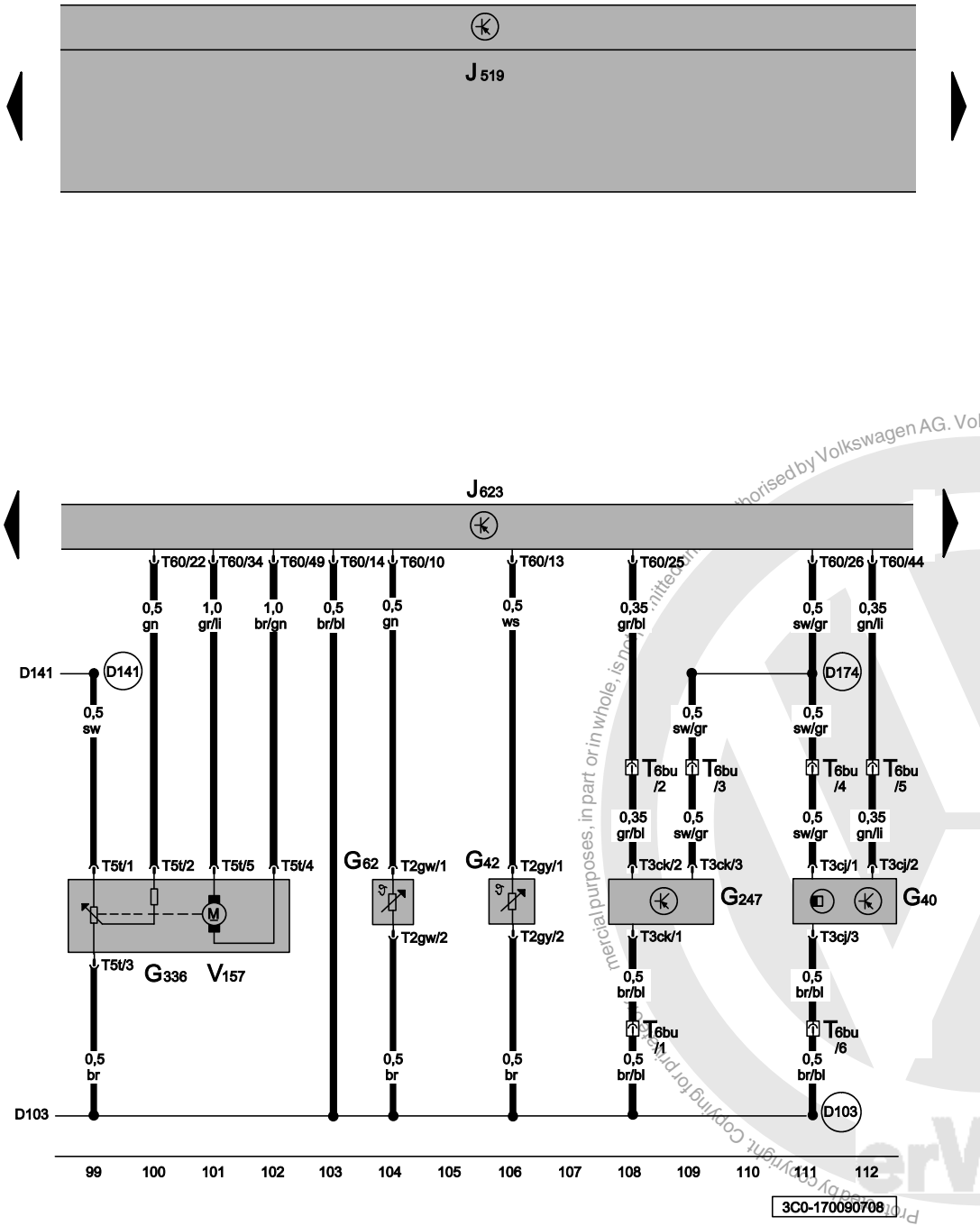
Engine control unit, throttle valve module, fuel pressure sender for low-pressure, fuel system diagnostic pump

G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
G410	Fuel pressure sender for low-pressure
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
T3af	3-pin connector
T3cd	3-pin connector
T6bv	6-pin connector
T60	60-pin connector
T94	94-pin connector
V144	Fuel system diagnostic pump
D103	Connection 3, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness
*	Only American markets



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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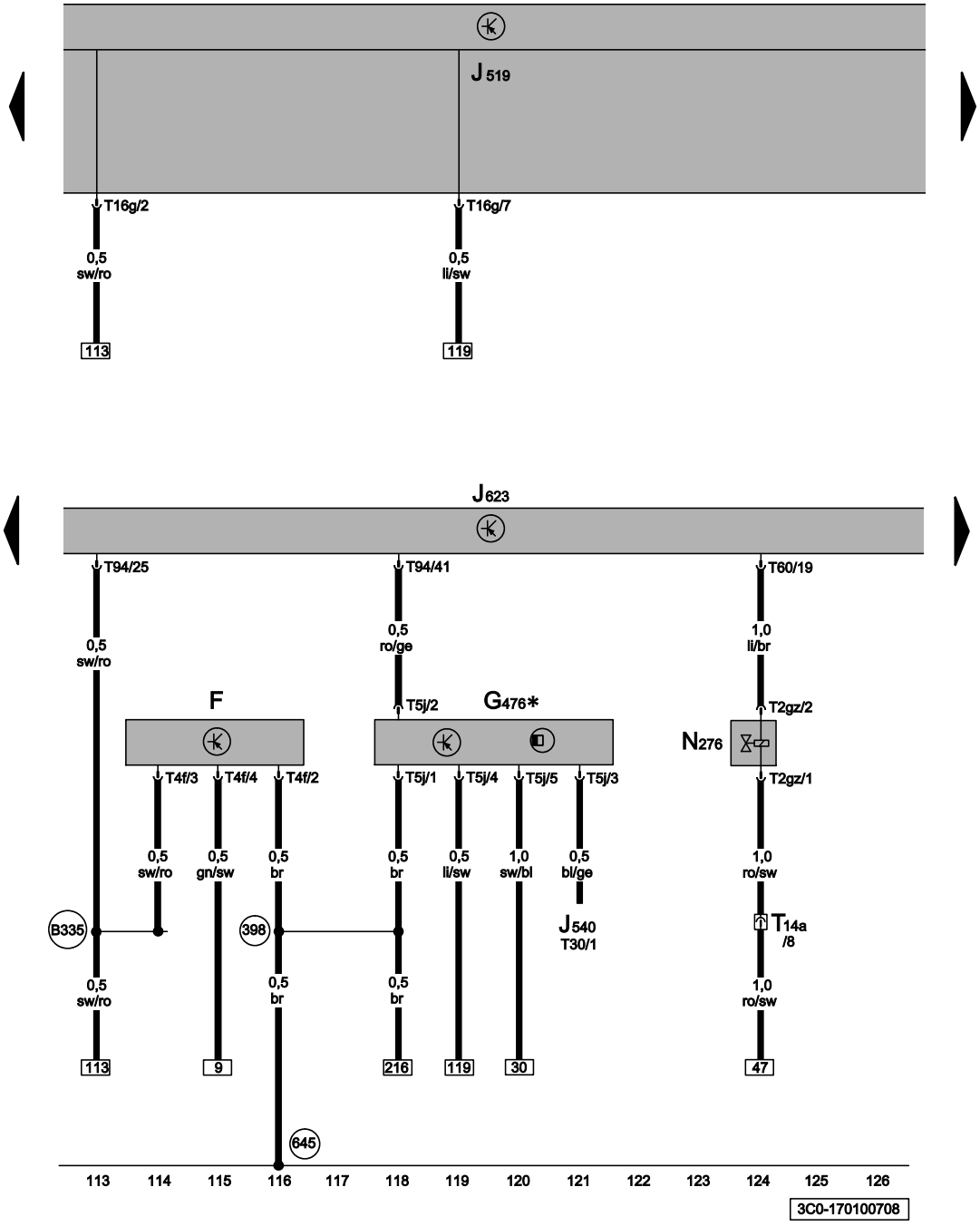


Engine control unit, intake air temperature sender, fuel pressure sender, coolant temperature sender, intake manifold flap potentiometer

G40	Hall sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G247	Fuel pressure sender
G336	Intake manifold flap potentiometer
J519	Onboard supply control unit
J623	Engine control unit
T2gy	2-pin connector
T2gw	2-pin connector, black
T3cj	3-pin connector
T3ck	3-pin connector
T5t	5-pin connector
T6bu	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor
D103	Connection 3, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness
D174	Connection 2 (5V) in engine prewiring harness

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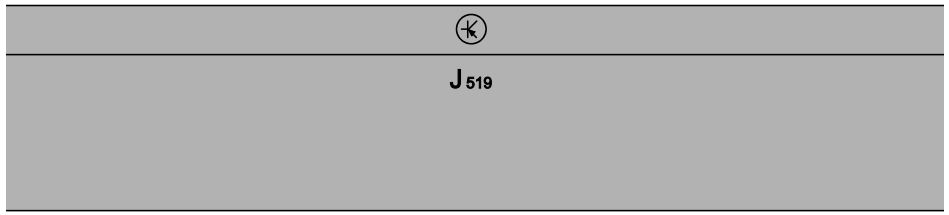


Engine control unit, fuel pressure regulating valve, clutch position sender, brake light switch

F	Brake light switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
N276	Fuel pressure regulating valve
T2gz	2-pin connector, blue
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T16g	16-pin connector
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
645	Earth point 1, on bulkhead
B335	Connection 1 (54), in main wiring harness
*	Only models with manual gearbox

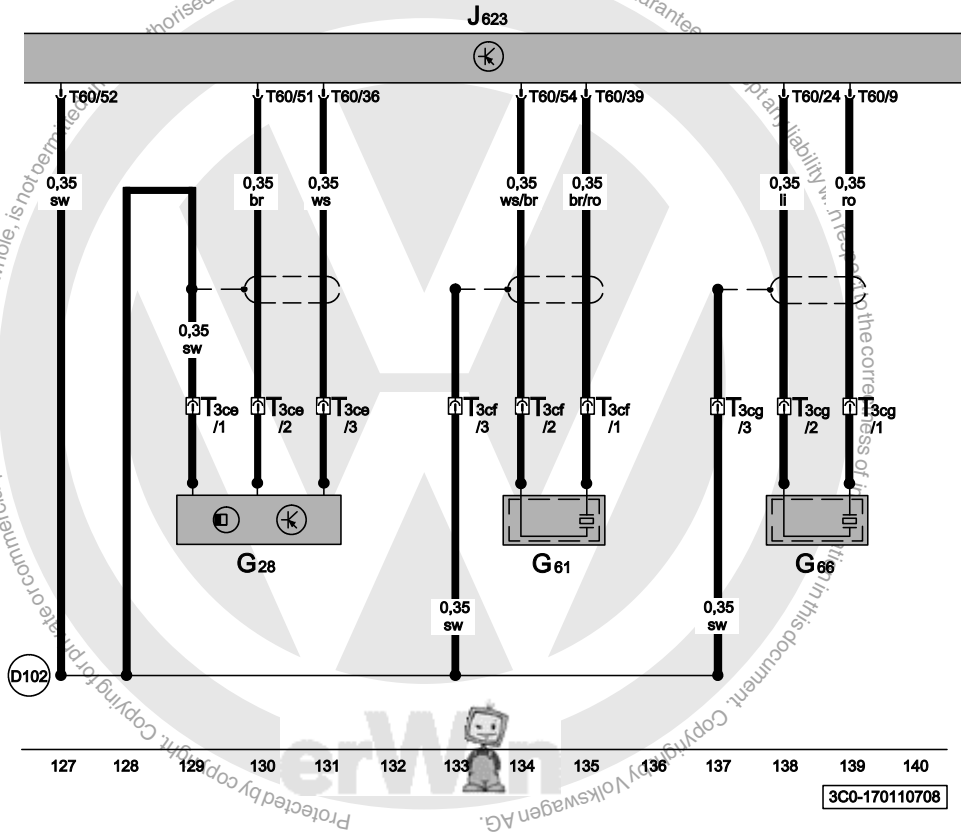
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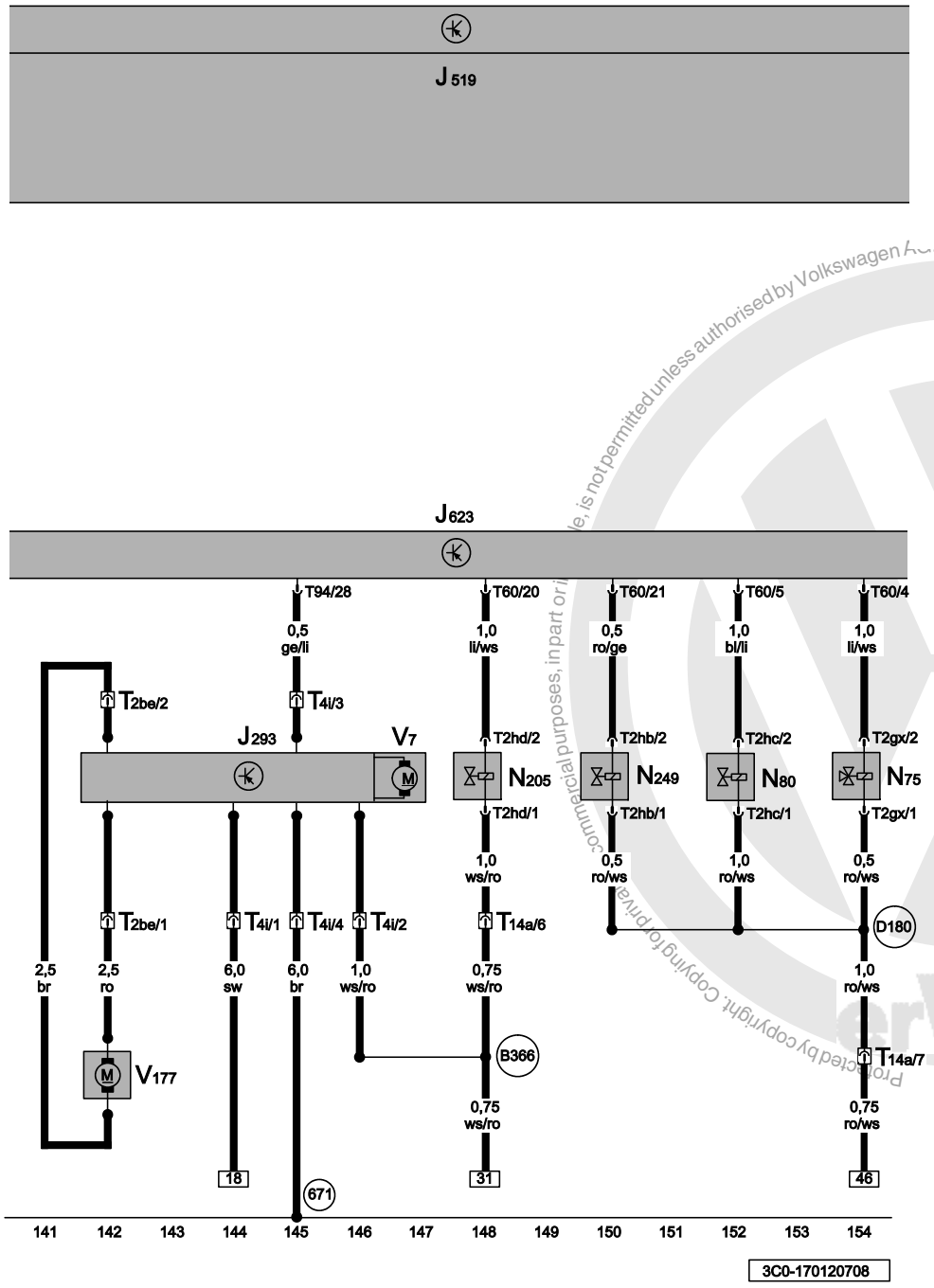
Engine control unit, engine speed sender, knock sensors 1 and 2

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J519	Onboard supply control unit
J623	Engine control unit
T3ce	3-pin connector, grey
T3cf	3-pin connector, green
T3cg	3-pin connector, brown
T60	60-pin connector
D102	Connection 2, in engine compartment wiring harness



ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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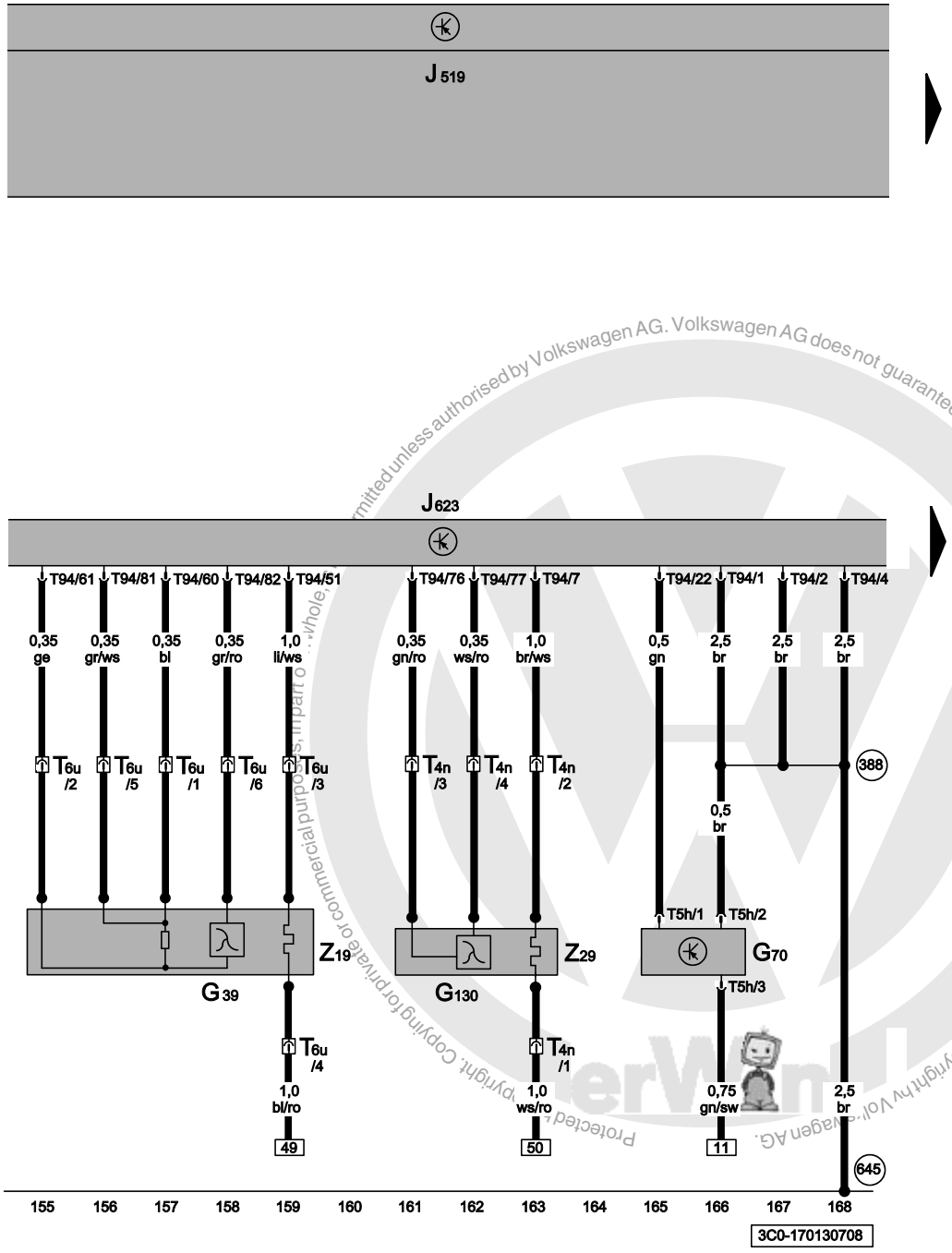


Engine control unit, radiator fan control unit, activated charcoal filter system solenoid valve 1, camshaft control valve 1

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N249	Turbocharger air recirculation valve
T2be	2-pin connector, on lock carrier
T2hb	2-pin connector, brown
T2hc	2-pin connector, black
T2hd	2-pin connector, black
T2gx	2-pin connector, black
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B366	Connection 17 (87a), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness

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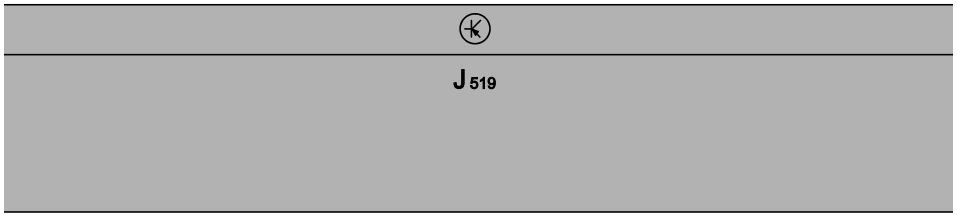


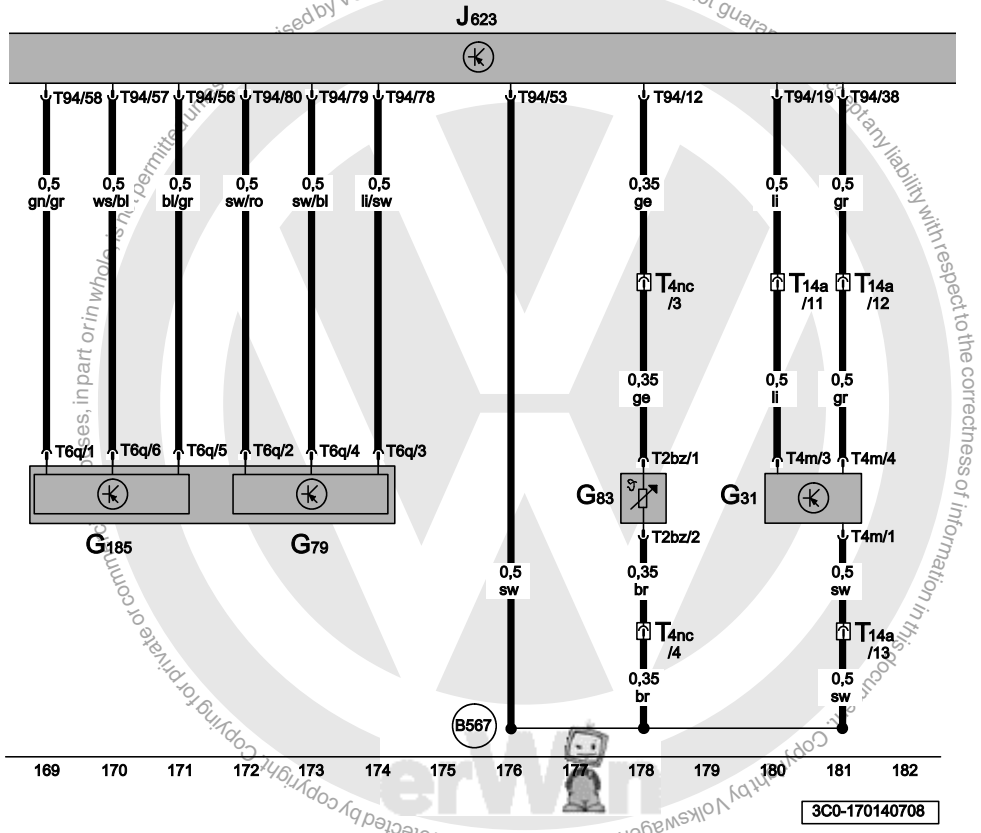
Engine control unit, air mass meter, Lambda probe, Lambda probe after catalytic converter

G39	Lambda probe
G70	Air mass meter
G130	Lambda probe after catalytic converter
J519	Onboard supply control unit
J623	Engine control unit
T4n	4-pin connector, coupling point for Lambda probe
T5h	5-pin connector
T6u	6-pin connector, black, coupling point for Lambda probe
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
388	Earth connection 23, in main wiring harness
645	Earth point 1, on bulkhead

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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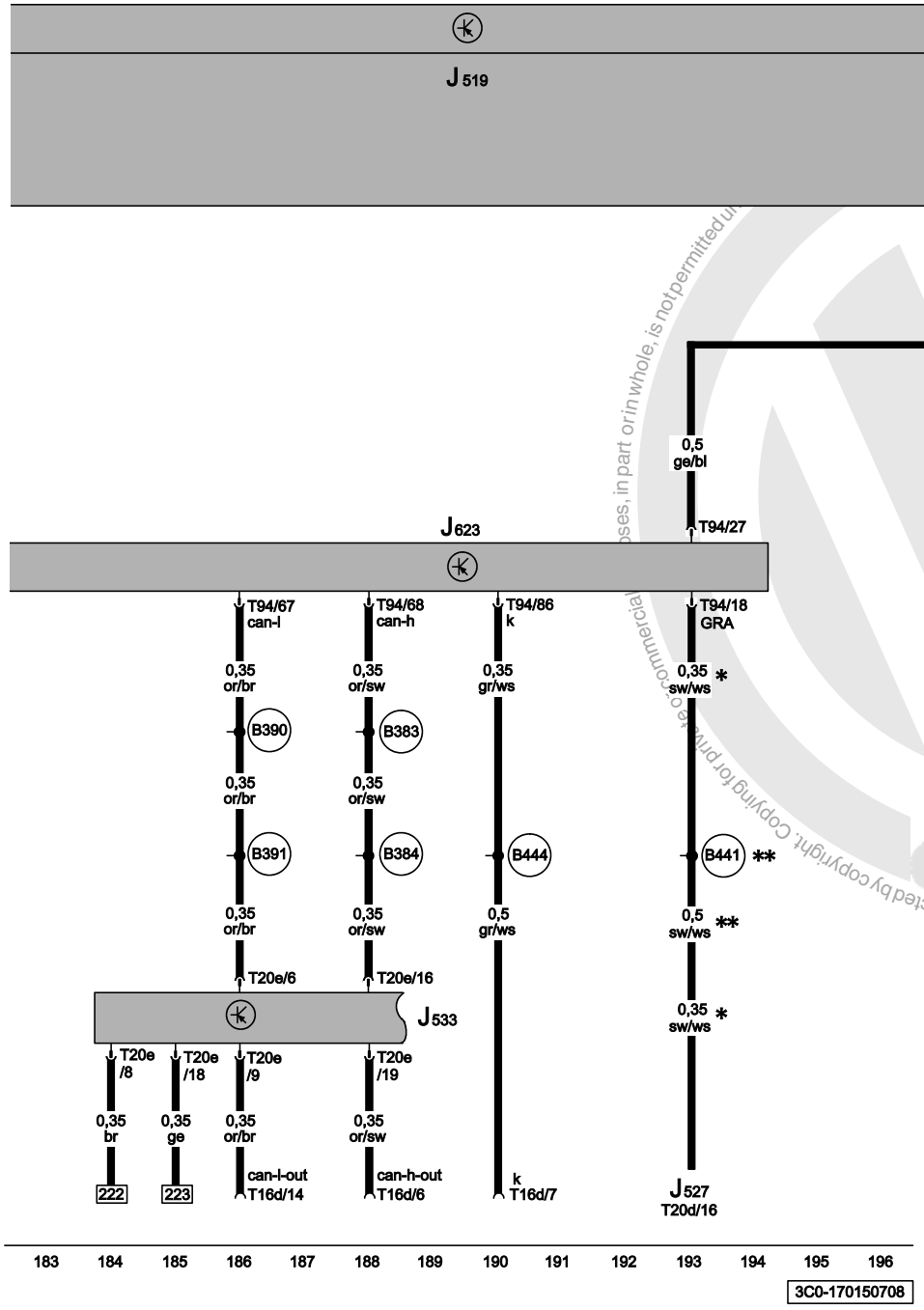


Engine control unit, accelerator position sender, charge pressure sender, radiator outlet coolant temperature sender

G31	Charge air pressure sender
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector
T4m	4-pin connector, black
T4nc	4-pin connector, black
T6q	6-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T94	94-pin connector
B567	Connection 34, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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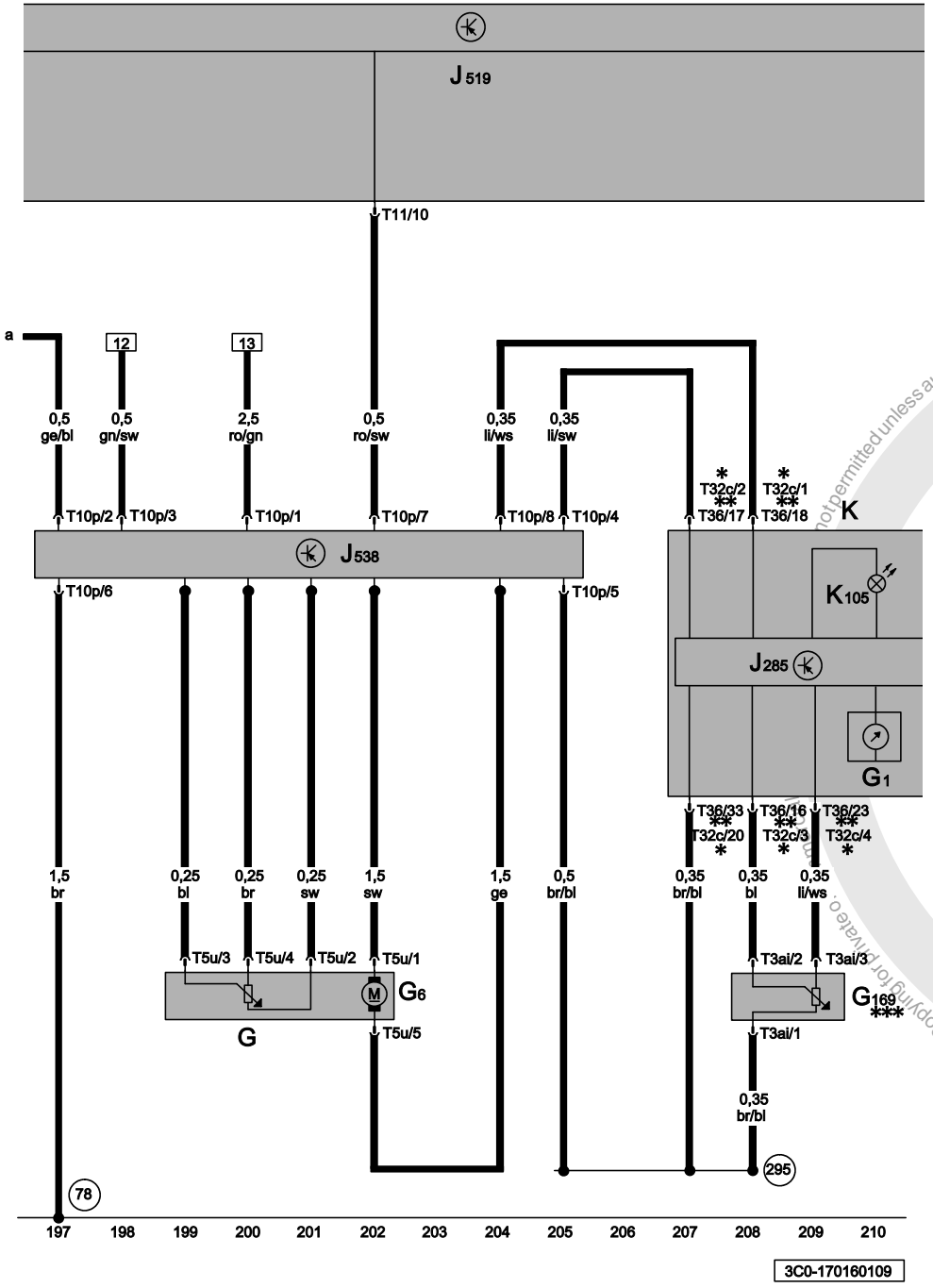


Engine control unit, data bus diagnosis interface, self-diagnosis connection

J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
J623	Engine control unit
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T20d	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

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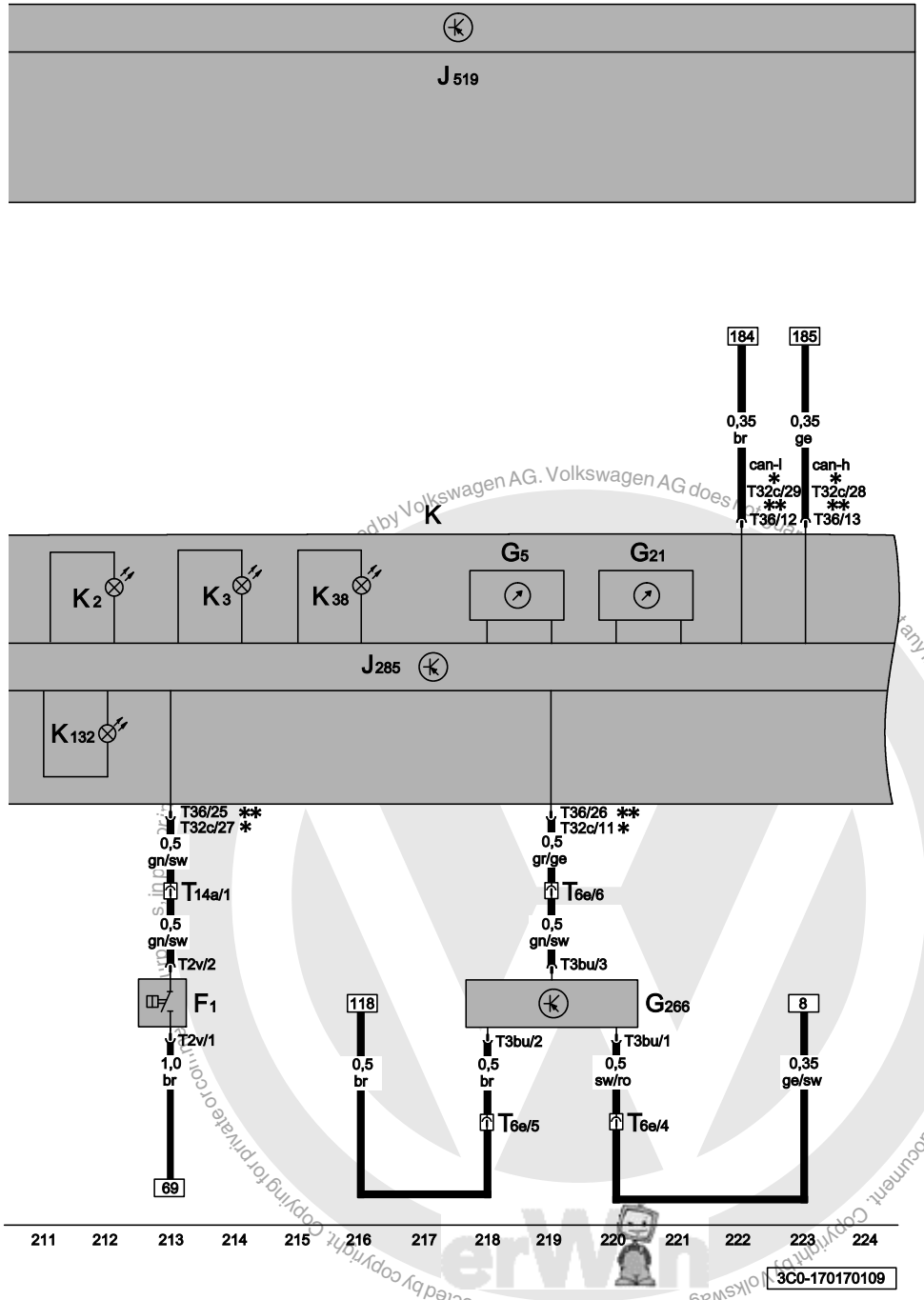


Fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump

G	Fuel gauge sender
G1	Fuel gauge
G6	Fuel system pressurisation pump
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J538	Fuel pump control unit
K	Dash panel insert
K105	Reserve fuel warning lamp
T3ai	3-pin connector
T5u	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T32c	32-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008
***	Only models with all-wheel drive

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Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender, rev. counter, speedometer

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T2v	2-pin connector, black, in engine compartment
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
*	Applicable from November 2008
**	Applicable up to October 2008

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3.2 l/184 kW - Motronic, engine code AXZ
from May 2008

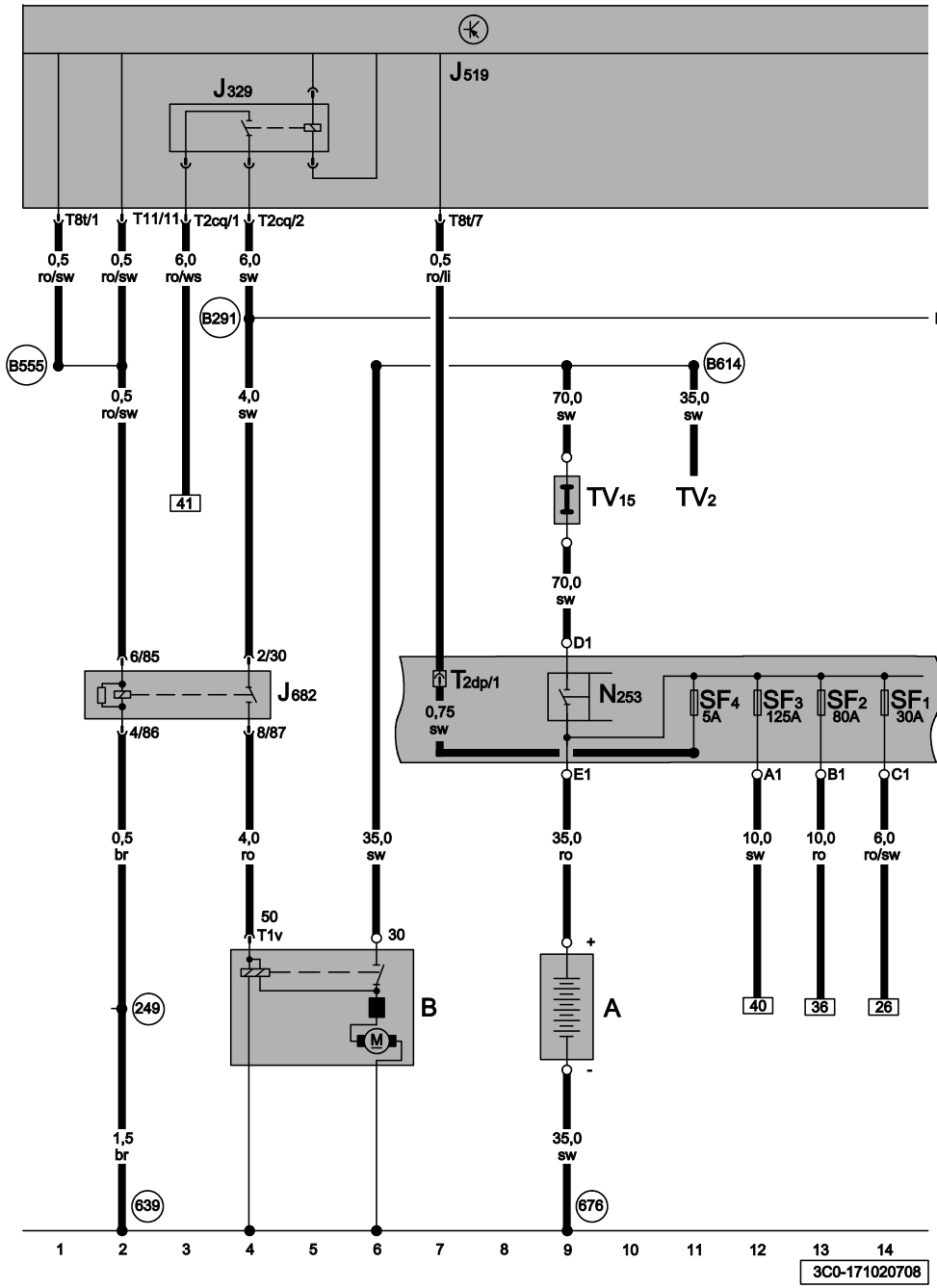
3.6 l/206 kW - Motronic, engine code BLV
from May 2008

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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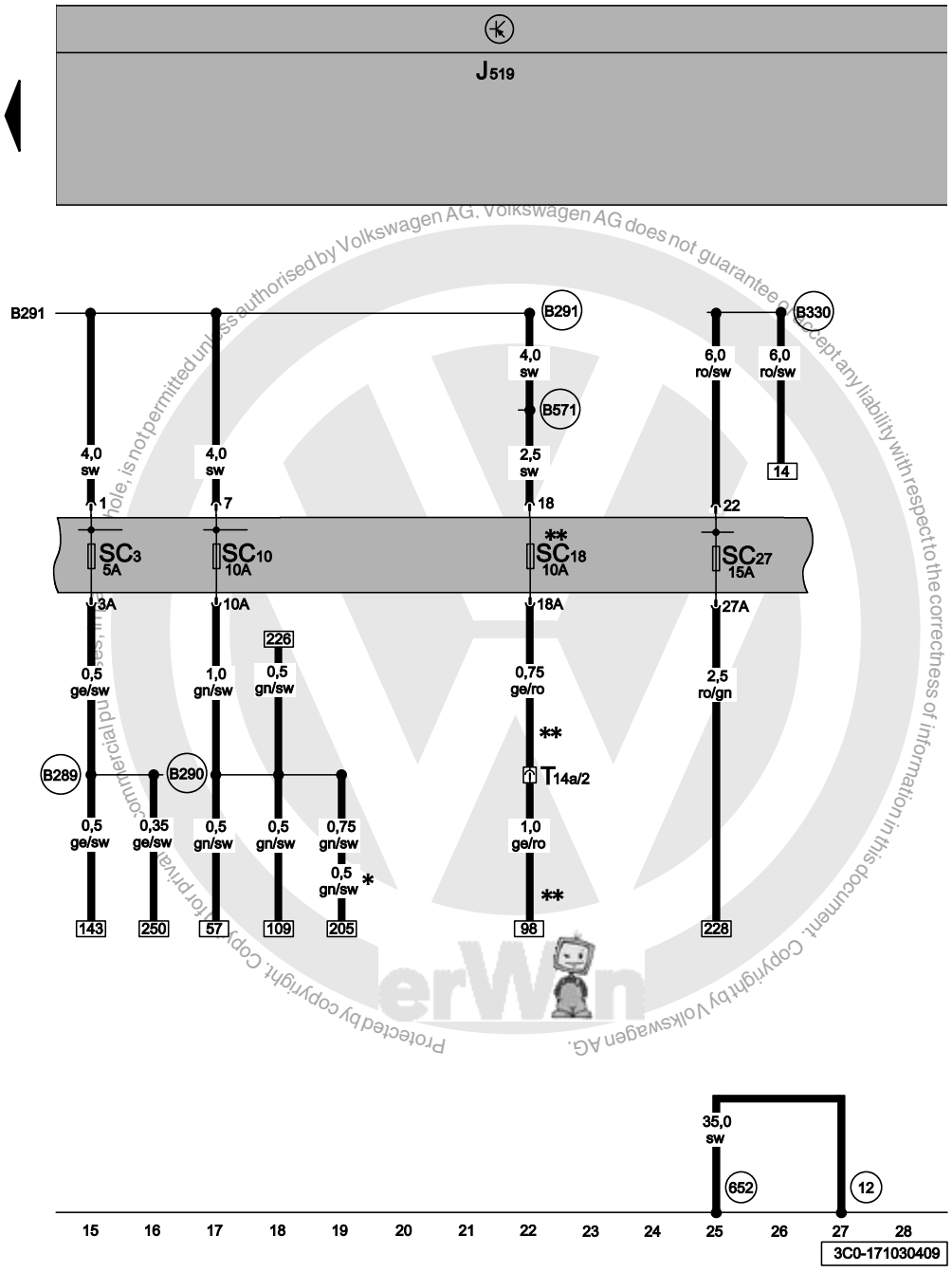


Battery, starter, term. 15 voltage supply relay, term. 50 voltage supply relay, fuses SF

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
N253	Battery isolation igniter
SF1	Fuse 1 in fuse holder F
SF2	Fuse 2 in fuse holder F
SF3	Fuse 3 in fuse holder F
SF4	Fuse 4 in fuse holder F
T1v	Single connector
T2cq	2-pin connector
T2dp	2-pin connector, black, coupling point, in main fuse box
T8t	8-pin connector
T11	11-pin connector
TV2	Terminal 30 wiring junction
TV15	Wiring connector
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
676	Earth point 2, on left in luggage compartment
B291	Connection 15 (15a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B614	Connection 23 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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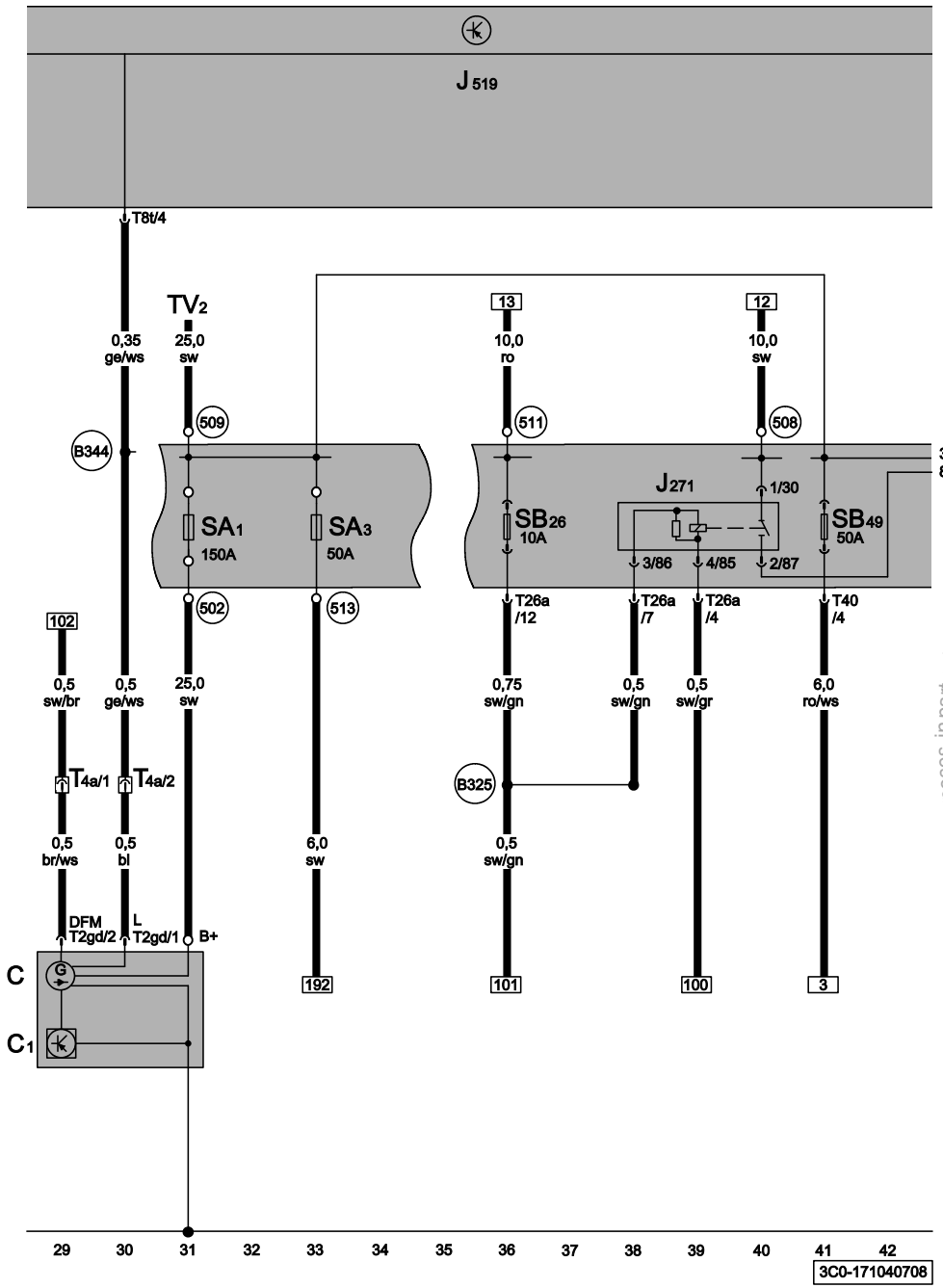


Fuses SC

J519	Onboard supply control unit
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
12	Earth point, on left in engine compartment
652	Earth point, engine and gearbox earth
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B571	Connection 38, in main wiring harness
*	Applicable from May 2009
**	Applicable to April 2009

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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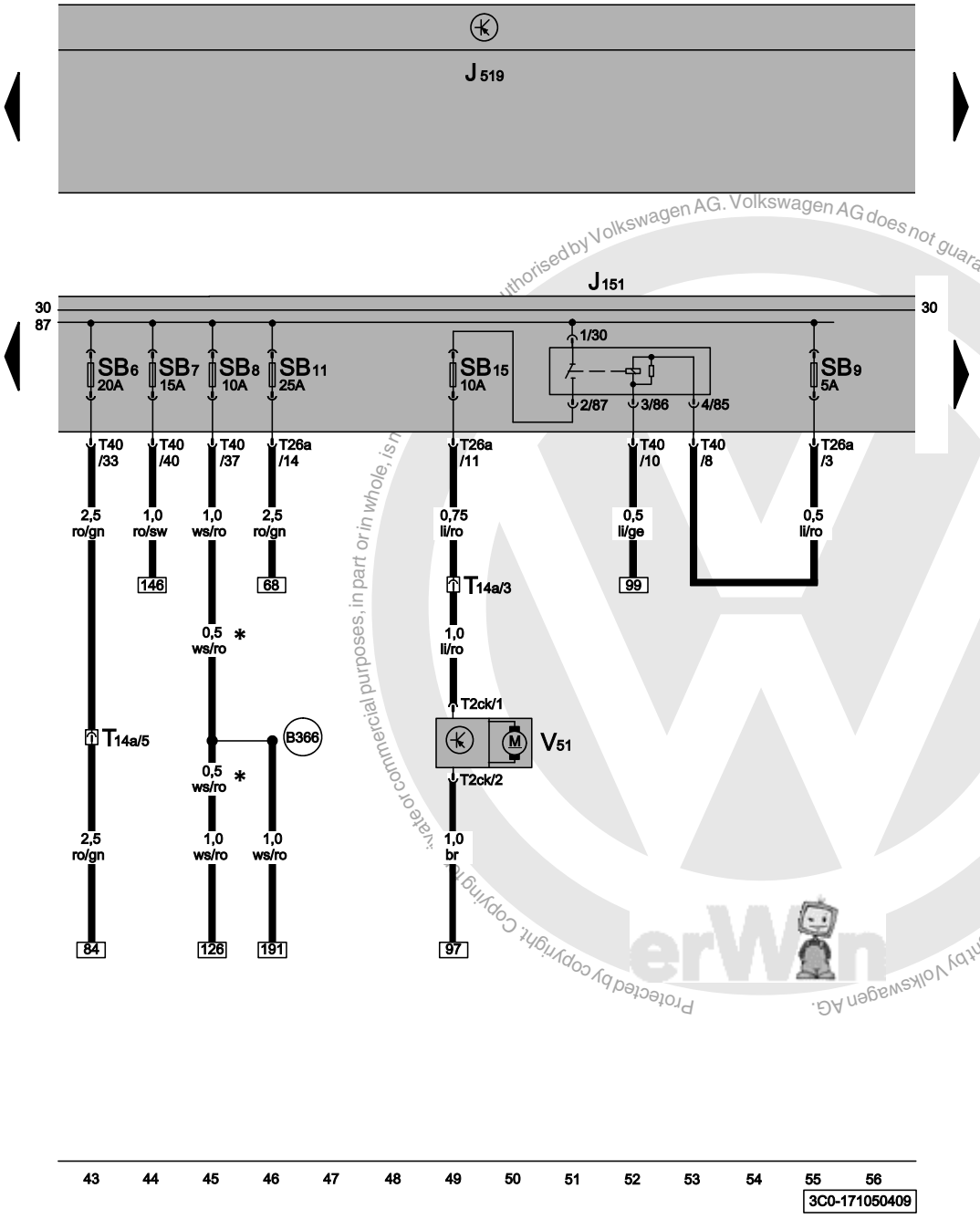


Alternator, current supply relay for Motronic, fuses SA and SB

C	Alternator
C1	Voltage regulator
J271	Motronic current supply relay, on E-box, on left in engine compartment (100)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB26	Fuse 26 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T26a	26-pin connector, on E-box
T40	40-pin connector, on E-box
TV2	Terminal 30 wiring junction
502	Threaded connection 1 (30a) on relay plate
508	Screw connection (30) on E-box
509	Threaded connection 1 (29), on E-box
511	Threaded connection 2 (30), on E-box
513	Threaded connection 3 (30a) on relay plate
B325	Connection 11 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness

ws	=	white
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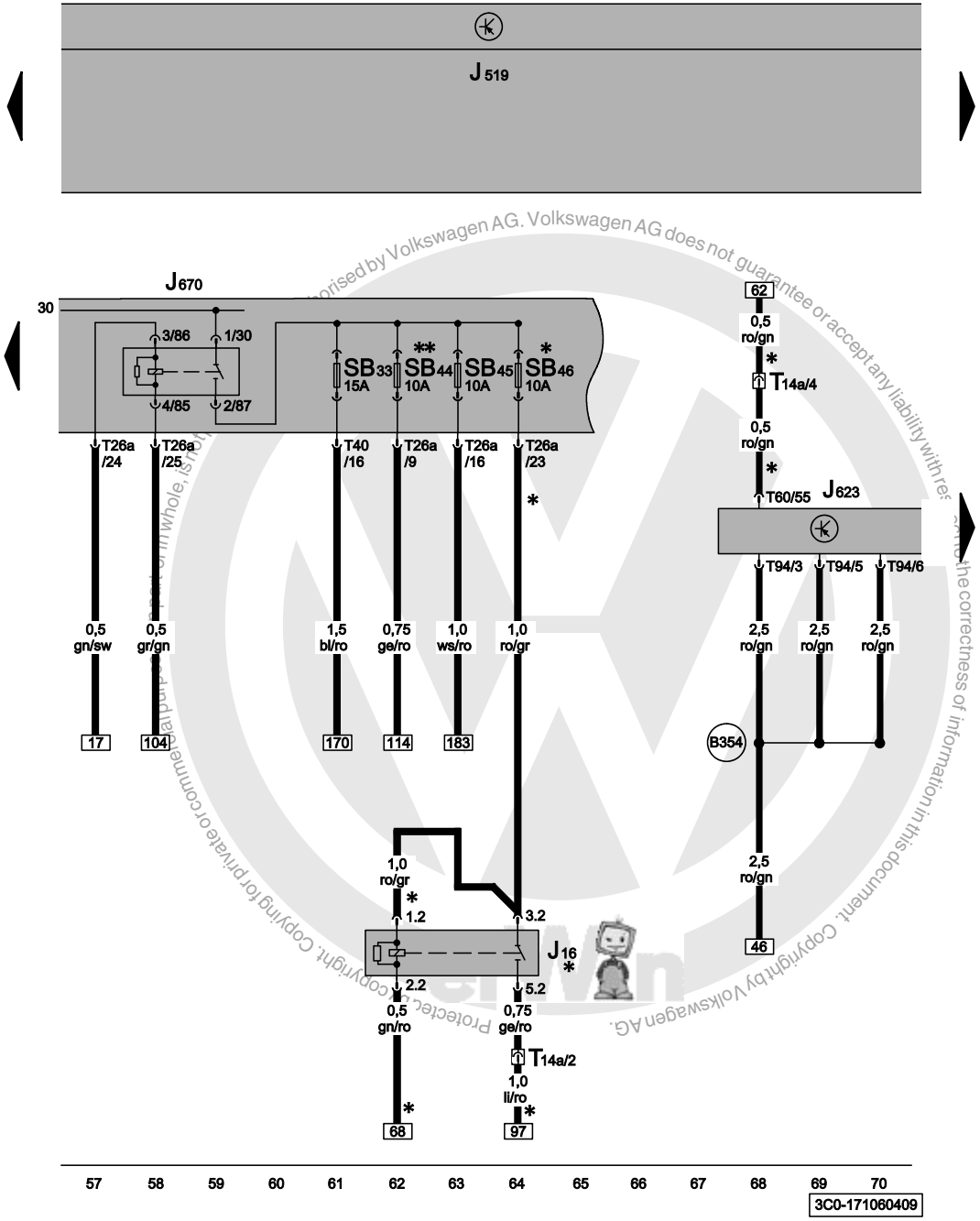


Continued coolant circulation relay, fuses SB, continued coolant circulation pump

J151	Continued coolant circulation relay, on E-box, on left in engine compartment (100)
J519	Onboard supply control unit
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB8	Fuse 8 on fuse holder B
SB9	Fuse 9 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB15	Fuse 15 on fuse holder B
T2ck	2-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector
T40	40-pin connector
V51	Continued coolant circulation pump
B366	Connection 17 (87a), in main wiring harness
*	Applicable from May 2009

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sw	=	black
ro	=	red
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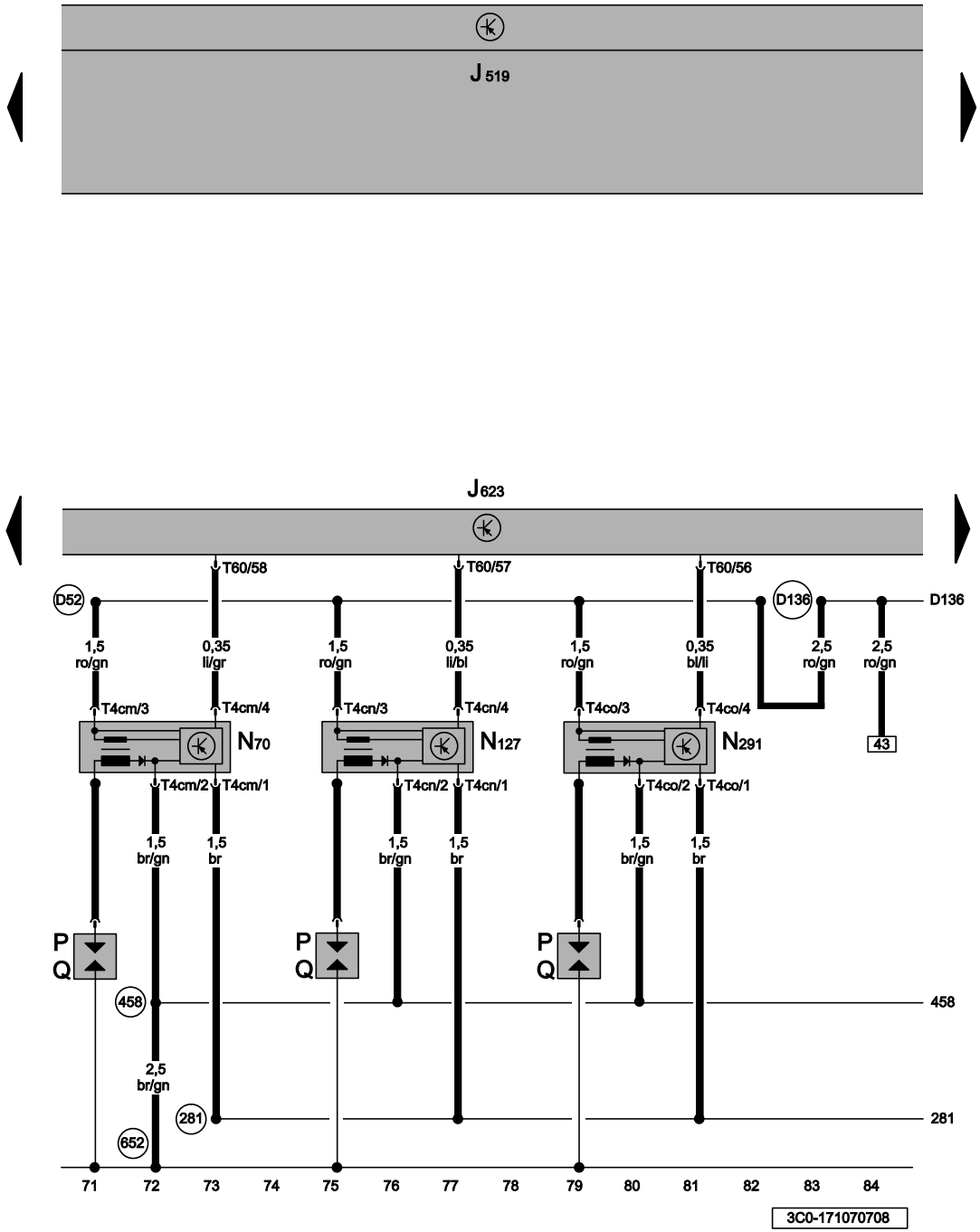


Engine control unit, Motronic current supply relay 2, fuses SB

J16	Current supply relay
J519	Onboard supply control unit
J623	Engine control unit
J670	Motronic current supply relay 2, on E-box, on left in engine compartment (167)
SB33	Fuse 33 on fuse holder B
SB44	Fuse 44 on fuse holder B
SB45	Fuse 45 on fuse holder B
SB46	Fuse 46 on fuse holder B
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector, on E-box
T40	40-pin connector, on E-box
T60	60-pin connector
T94	94-pin connector
B354	Connection 5 (87a), in main wiring harness
*	Applicable from May 2009
**	Only models with USA equipment

ws	=	white
sw	=	black
ro	=	red
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rs	=	pink

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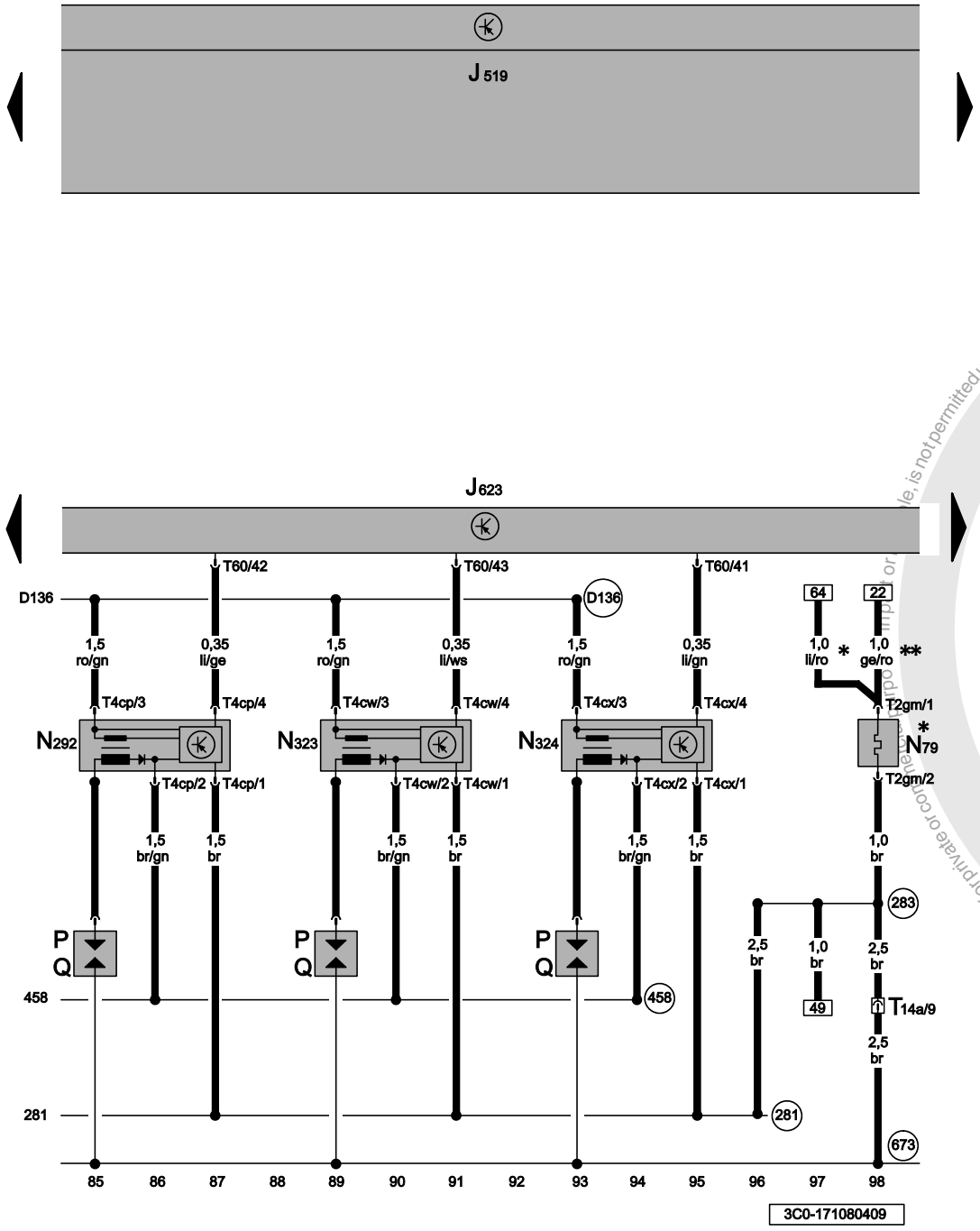


Engine control unit, ignition coils 1-3 with output stage, spark plugs, spark plug connectors

J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
P	Spark plug connector
Q	Spark plug
T4cm	4-pin connector
T4cn	4-pin connector
T4co	4-pin connector
T60	60-pin connector
281	Earth point 1, engine prewiring harness
458	Earth point 3, engine prewiring harness
652	Earth point, engine and gearbox earth
D52	Positive connection (15a), in engine compartment wiring harness
D136	Positive connection 2 (15a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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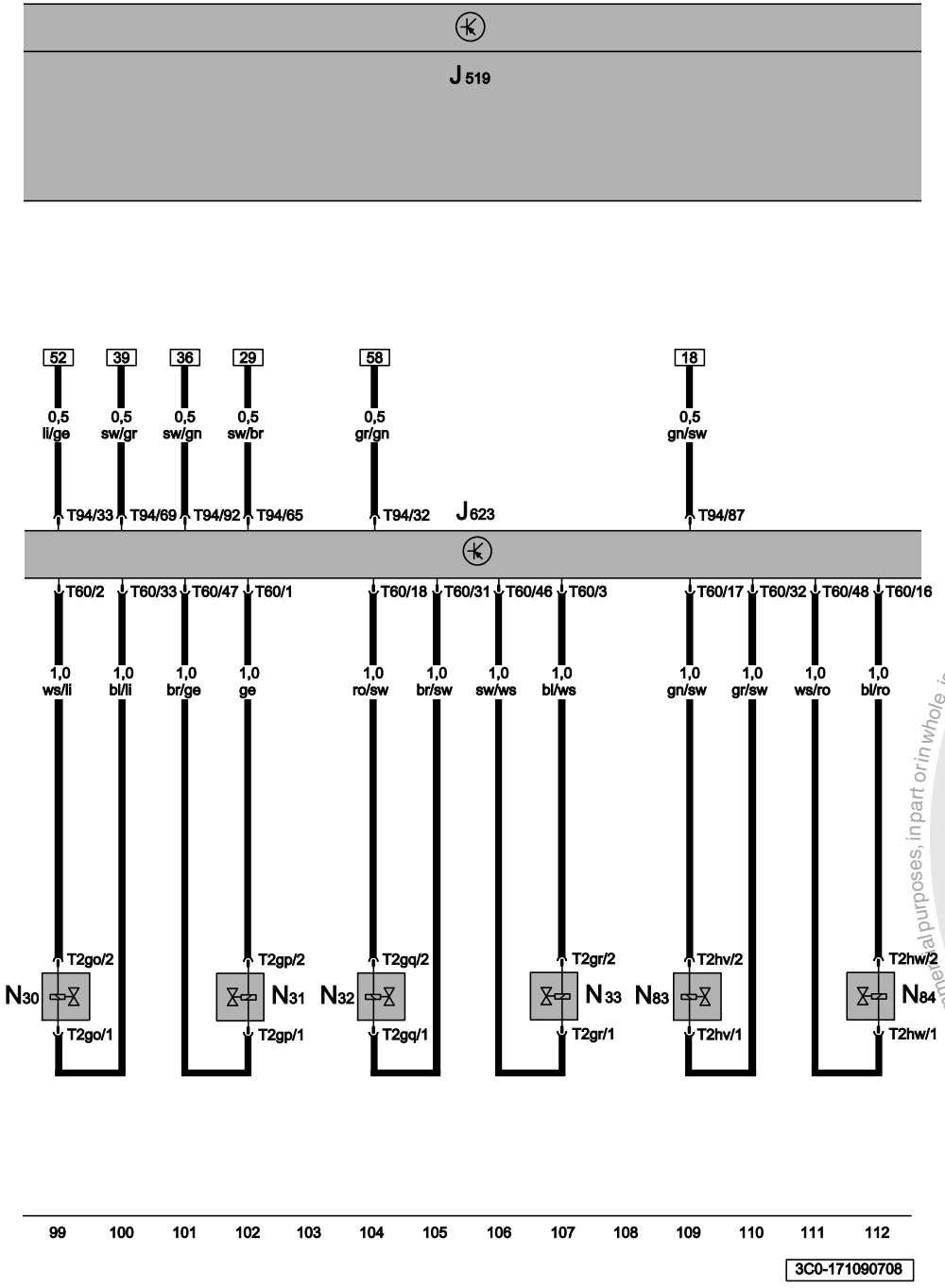


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, crankcase breather heater element, ignition coils 4-6 with output stage, spark plugs, spark plug connector

J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
N292	Ignition coil 4 with output stage
N323	Ignition coil 5 with output stage
N324	Ignition coil 6 with output stage
P	Spark plug connector
Q	Spark plug
T2gm	2-pin connector
T4cp	4-pin connector
T4cw	4-pin connector
T4cx	4-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
281	Earth point 1, engine prewiring harness
283	Earth point 2, engine prewiring harness
458	Earth point 3, engine prewiring harness
673	Earth point 3, on front of left longitudinal member
D136	Positive connection 2 (15a), in engine compartment wiring harness
*	Applicable from May 2009
**	Applicable to April 2009

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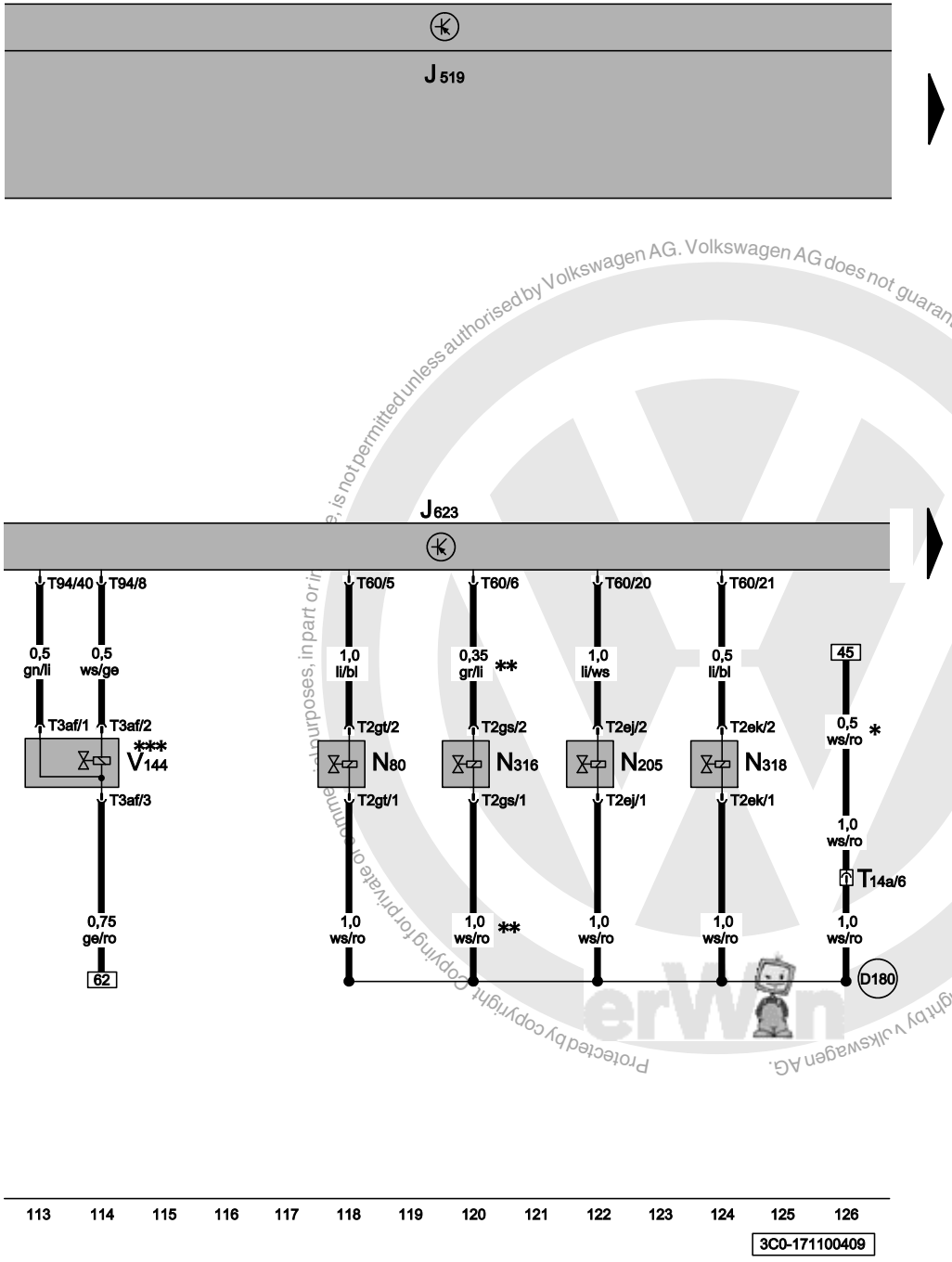


Engine control unit, injectors for cylinders 1-6

J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
N83	Injector, cylinder 5
N84	Injector, cylinder 6
T2go	2-pin connector
T2gp	2-pin connector
T2gq	2-pin connector
T2gr	2-pin connector
T2hv	2-pin connector
T2hw	2-pin connector
T60	60-pin connector
T94	94-pin connector

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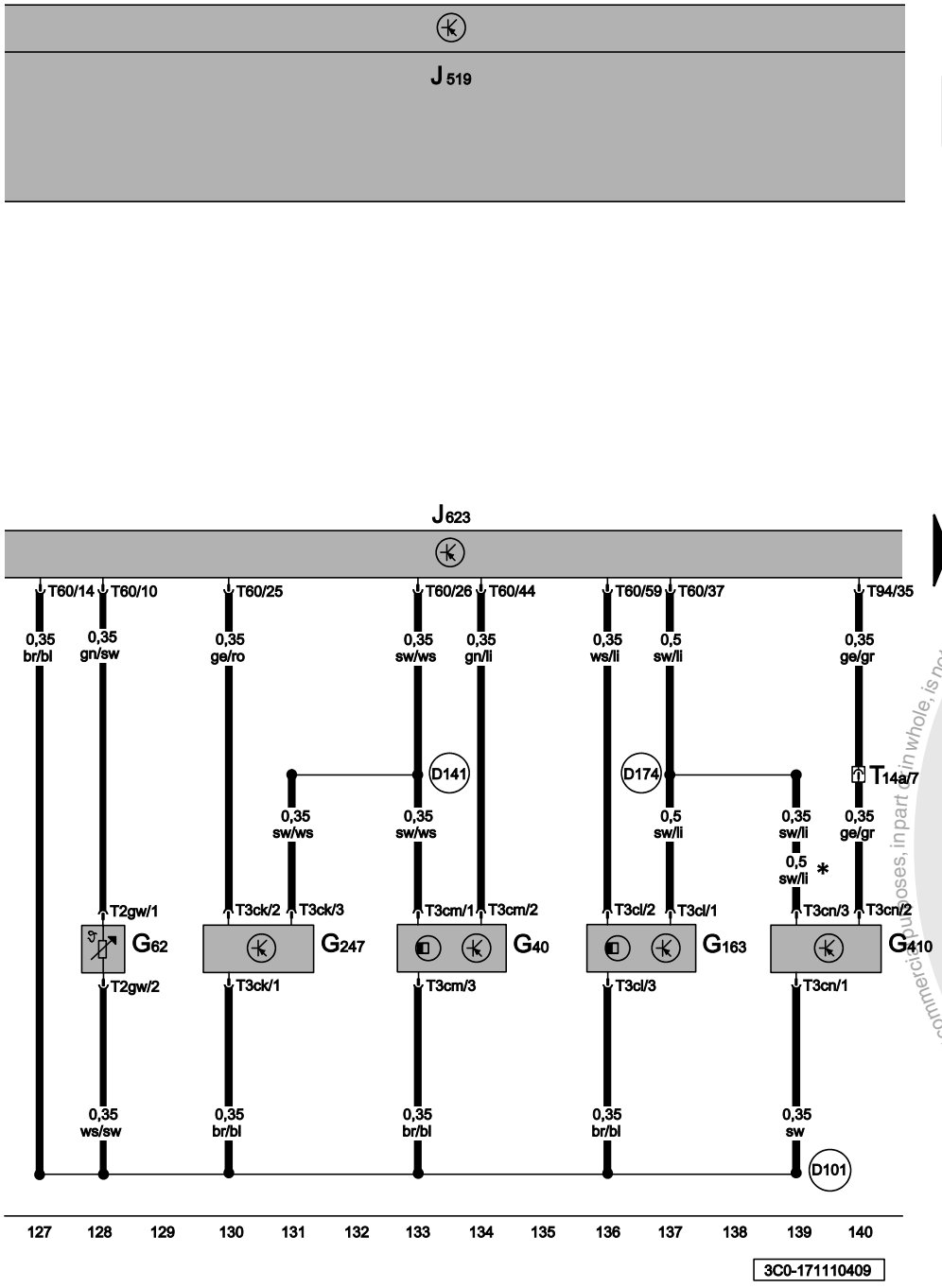


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gn = green
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ge = yellow
or = orange
rs = pink

Engine control unit, activated charcoal filter system solenoid valve 1, camshaft control valve 1, intake manifold flap valve, fuel system diagnostic pump, exhaust camshaft control valve 1

J519	Onboard supply control unit
J623	Engine control unit
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N316	Intake manifold flap valve
N318	Exhaust camshaft control valve 1
T2ej	2-pin connector
T2ek	2-pin connector
T2gs	2-pin connector
T2gt	2-pin connector
T3af	3-pin connector, black
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V144	Fuel system diagnostic pump
D180	Connection (87a), in engine compartment wiring harness
*	Applicable from May 2009
**	Only models with engine code AXZ
***	Only models with USA equipment

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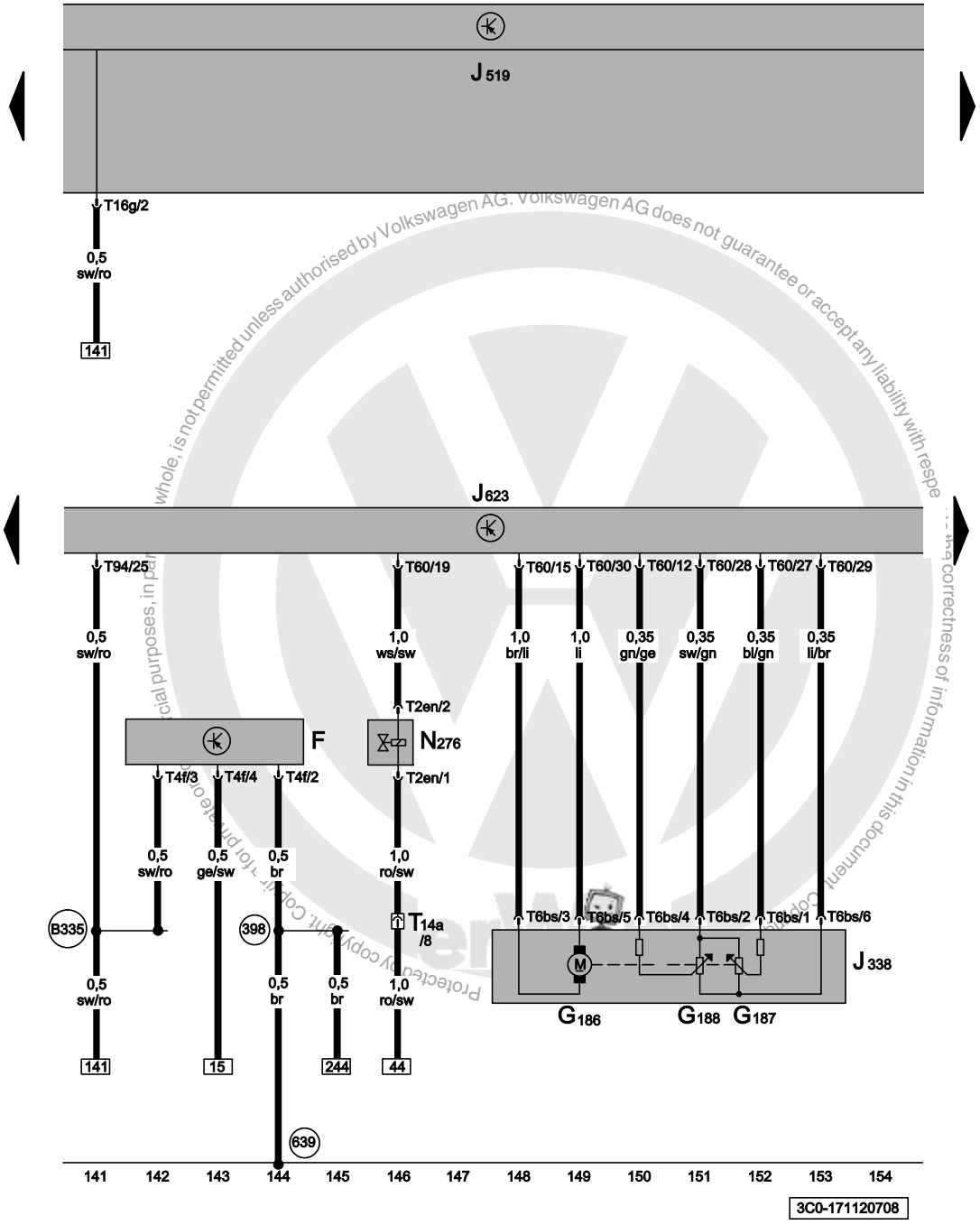


Engine control unit, fuel pressure sender, fuel pressure sender for low-pressure, Hall sender, coolant temperature sender

G40	Hall sender
G62	Coolant temperature sender
G163	Hall sender 2
G247	Fuel pressure sender
G410	Fuel pressure sender for low-pressure
J519	Onboard supply control unit
J623	Engine control unit
T2gw	2-pin connector
T3ck	3-pin connector
T3cl	3-pin connector
T3cm	3-pin connector
T3cn	3-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness
D174	Connection 2 (5V) in engine prewiring harness
*	Applicable from May 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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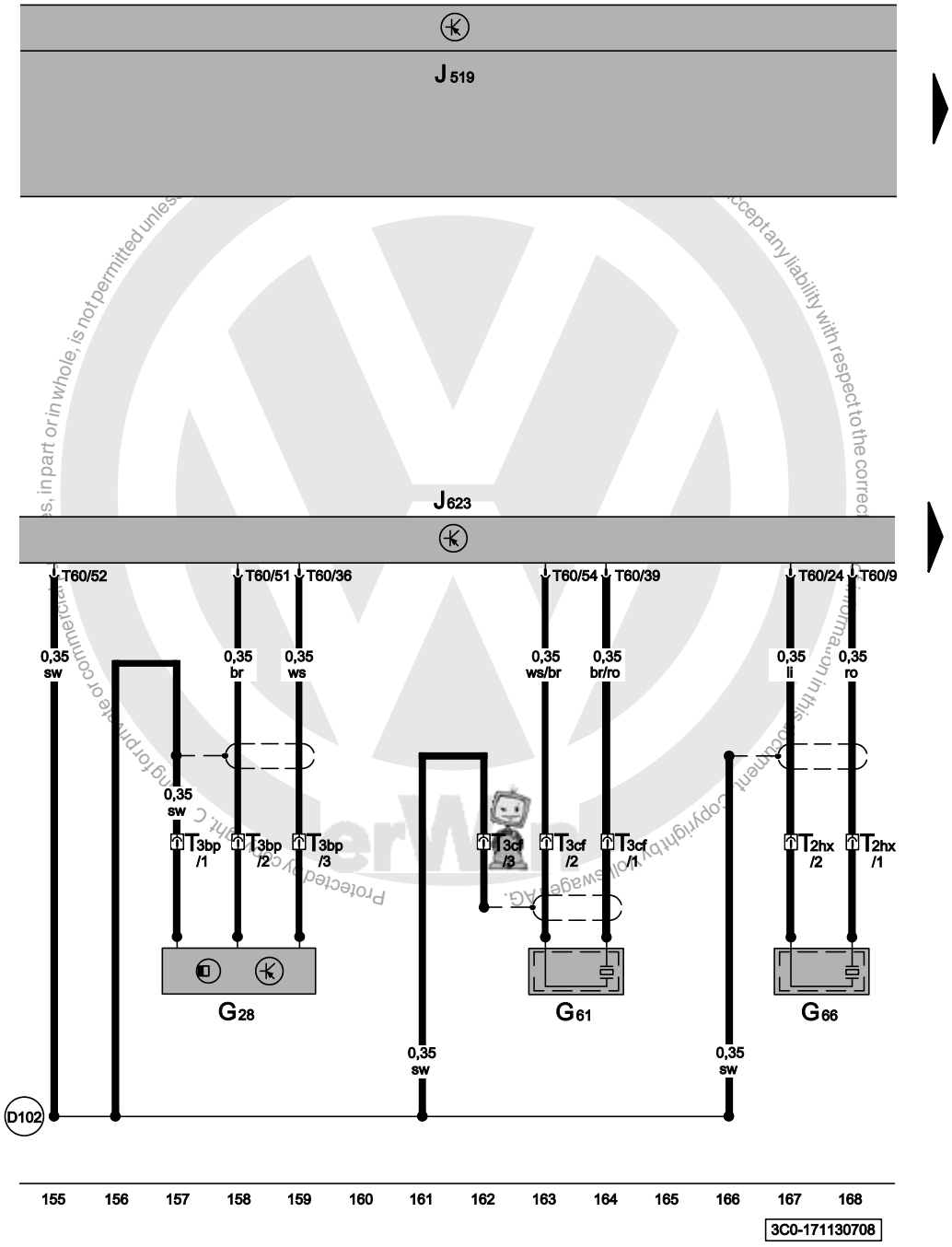


Engine control unit, throttle valve module, fuel pressure regulating valve, brake light switch

F	Brake light switch
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
N276	Fuel pressure regulating valve
T2en	2-pin connector
T4f	4-pin connector
T6bs	6-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T16g	16-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

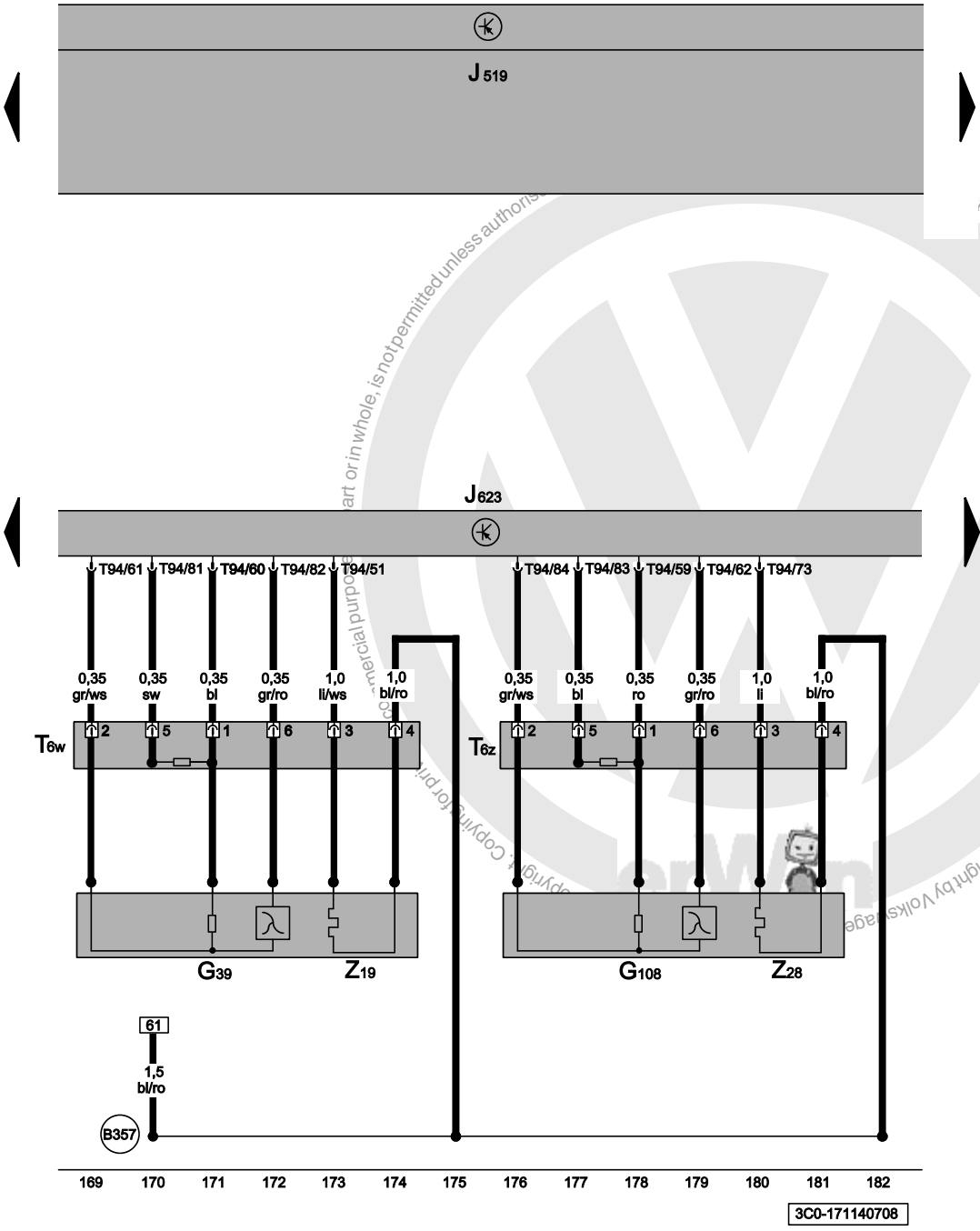
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Engine control unit, engine speed sender, knock sensor 1 and 2

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J519	Onboard supply control unit
J623	Engine control unit
T2hx	2-pin connector, black
T3bp	3-pin connector, grey
T3cf	3-pin connector, black
T60	60-pin connector
D102	Connection 2, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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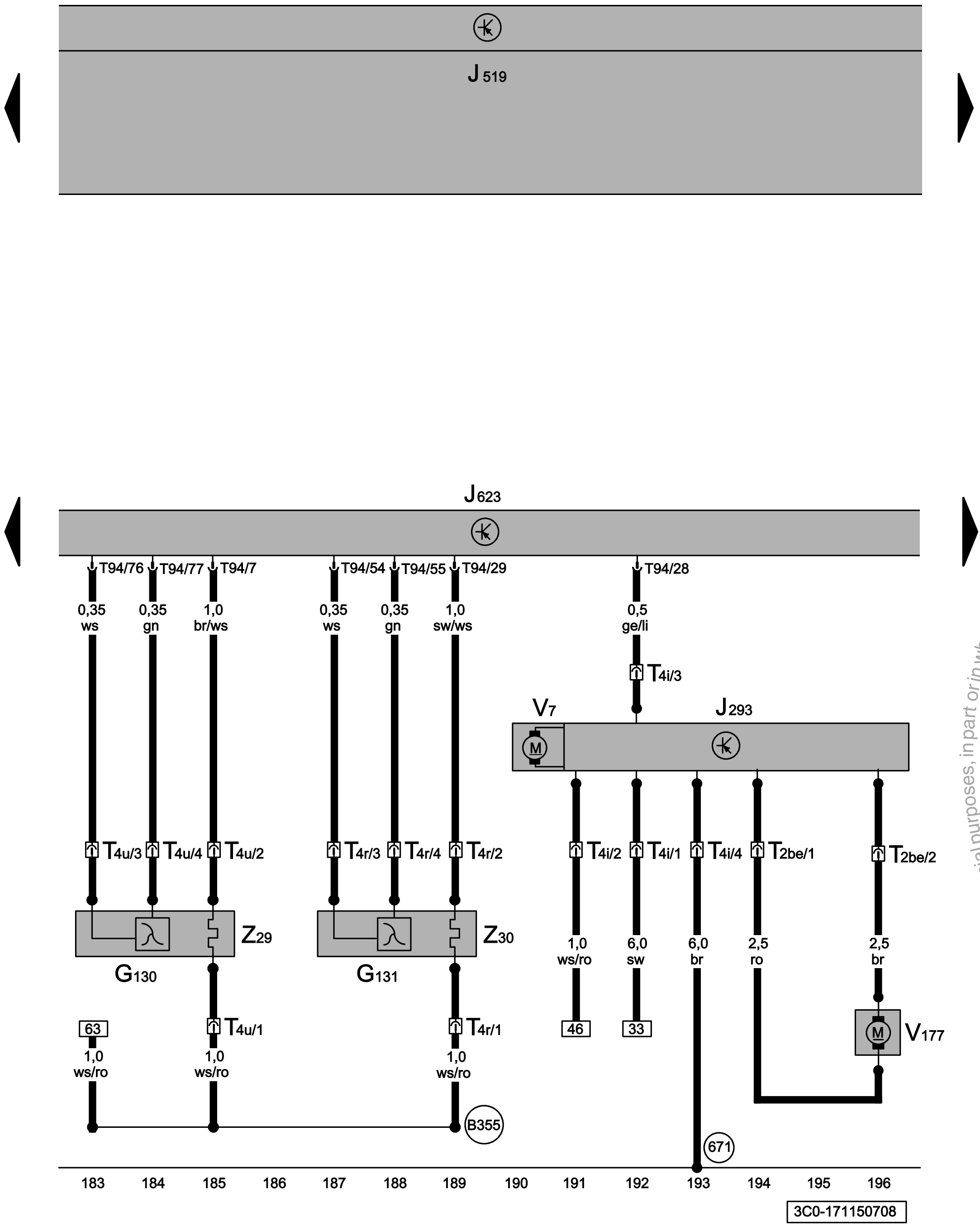


Engine control unit, Lambda probe, Lambda probe heater

G39	Lambda probe
G108	Lambda probe 2
J519	Onboard supply control unit
J623	Engine control unit
T6w	6-pin connector, black, coupling point for Lambda probe
T6z	6-pin connector, black, coupling point for Lambda probe
T94	94-pin connector
Z19	Lambda probe heater
Z28	Lambda probe heater 2
B357	Connection 8 (87a), in main wiring harness

ws	=	white
sw	=	black
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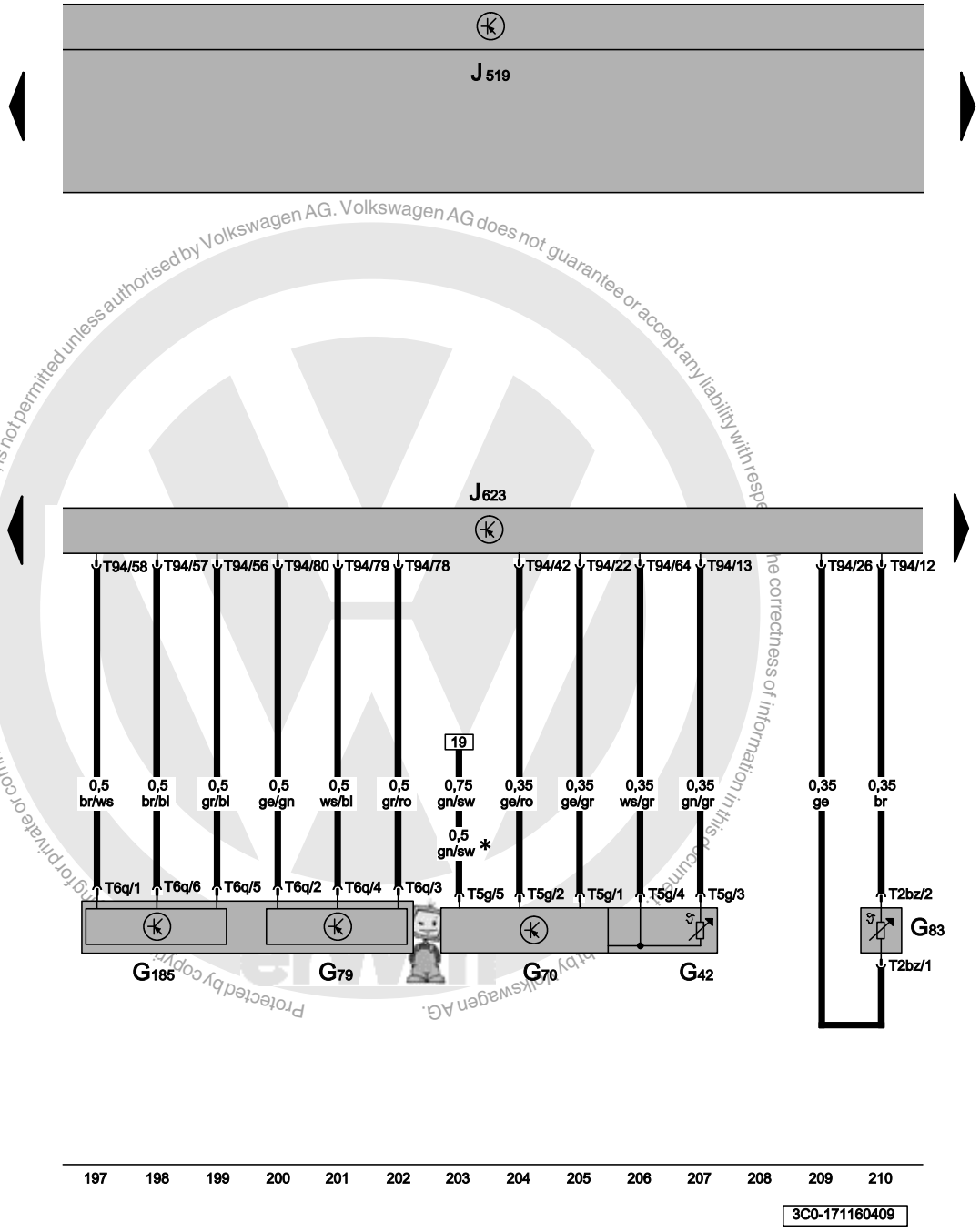


Engine control unit, Lambda probes after catalytic converter, radiator fan

G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter
J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
T2be	2-pin connector, on lock carrier
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T4r	4-pin connector, coupling point for Lambda probe
T4u	4-pin connector, coupling point for Lambda probe
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
671	Earth point 1, on front of left longitudinal member
B355	Connection 6 (87a), in main wiring harness

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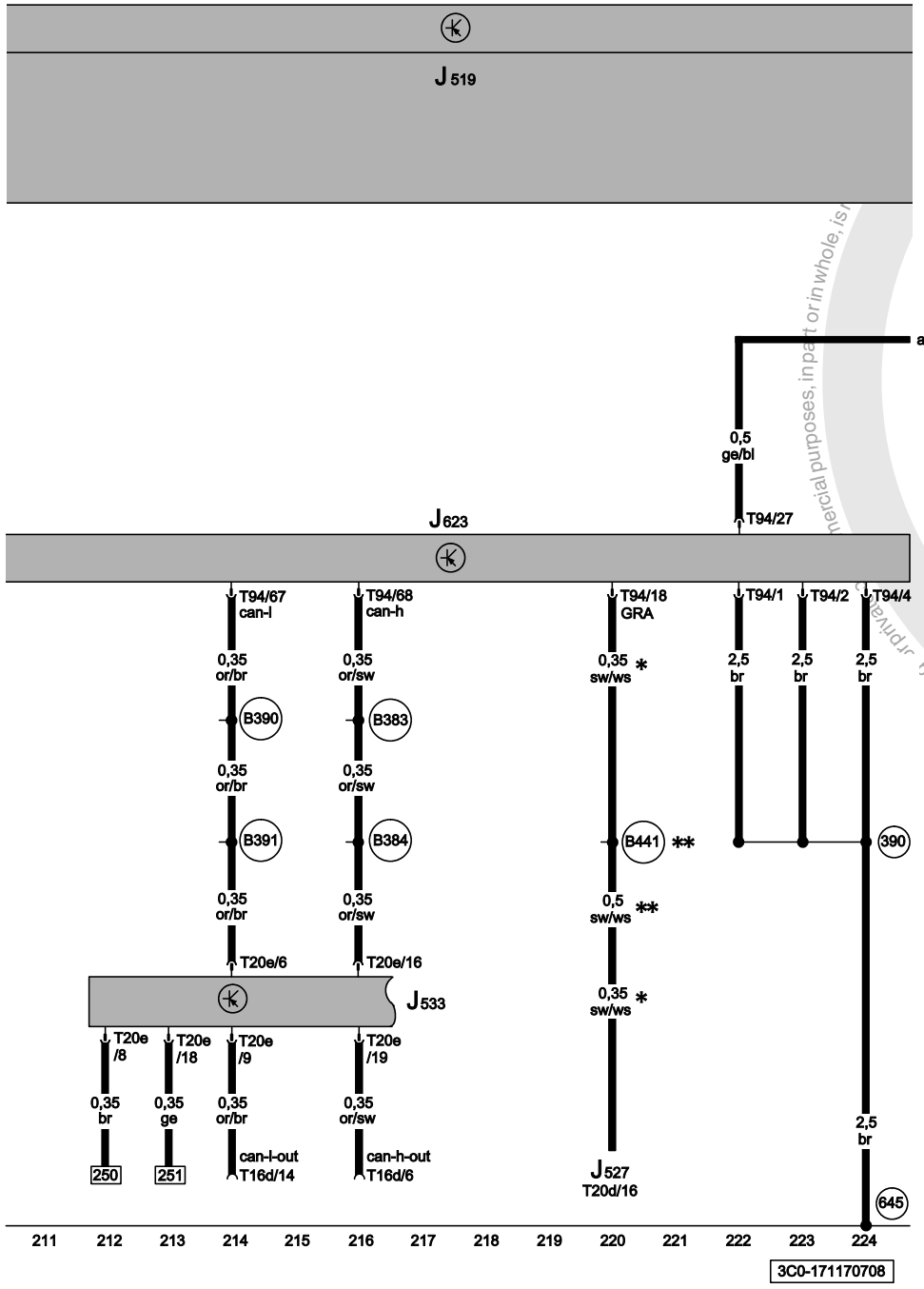


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Engine control unit, intake air temperature sender, air mass meter, accelerator position sender, radiator outlet coolant temperature sender

G42	Intake air temperature sender
G70	Air mass meter
G79	Accelerator position sender
G83	Radiator outlet coolant temperature sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector
T5g	5-pin connector
T6q	6-pin connector
T94	94-pin connector
*	Applicable from May 2009

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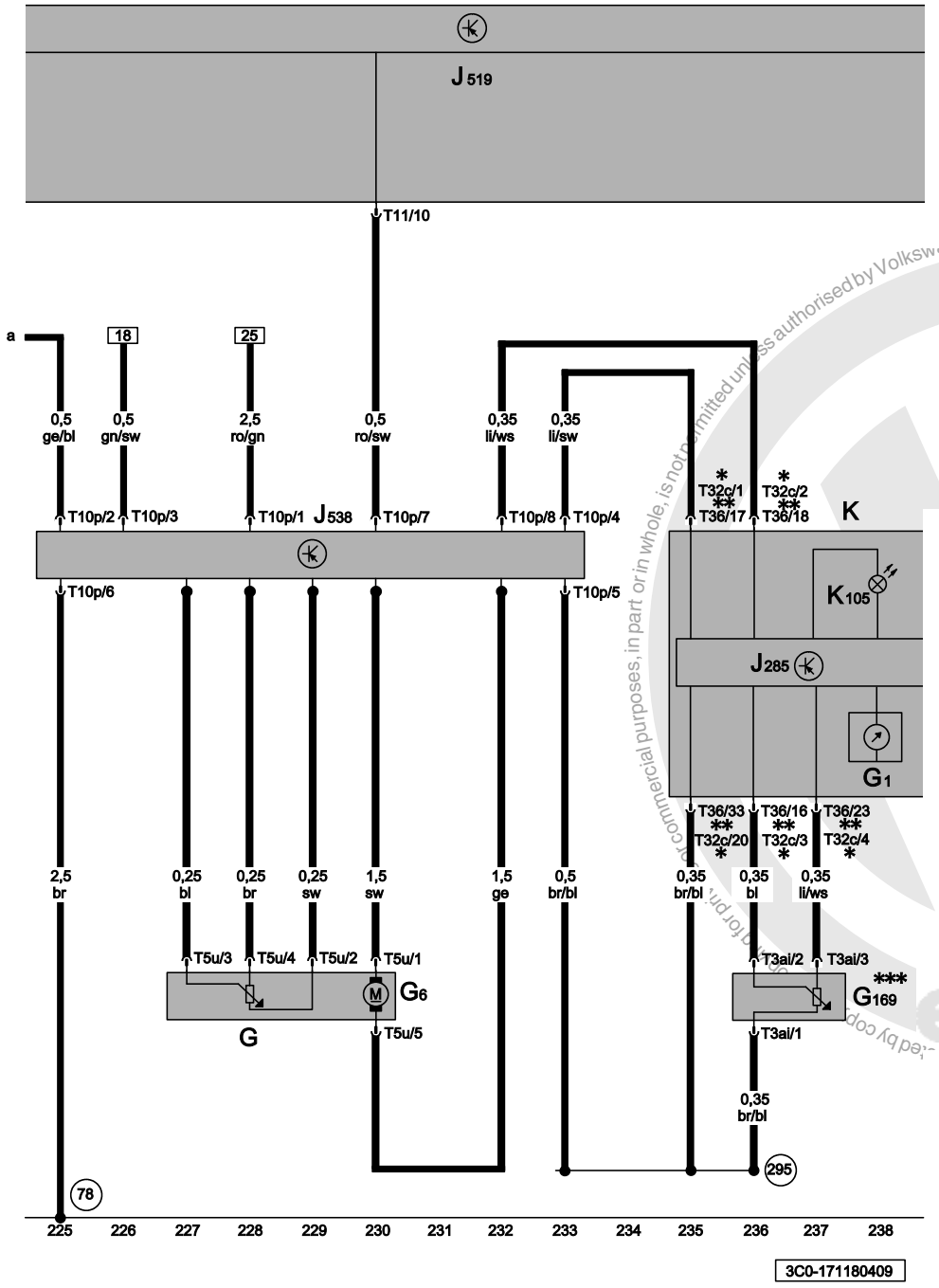


Engine control unit, data bus diagnosis interface, self-diagnosis connection

J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
J623	Engine control unit
T16d	16-pin connector, self-diagnosis connection
T20d	20-pin connector
T20e	20-pin connector
T94	94-pin connector
390	Earth connection 25, in main wiring harness
645	Earth point 1, on bulkhead
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

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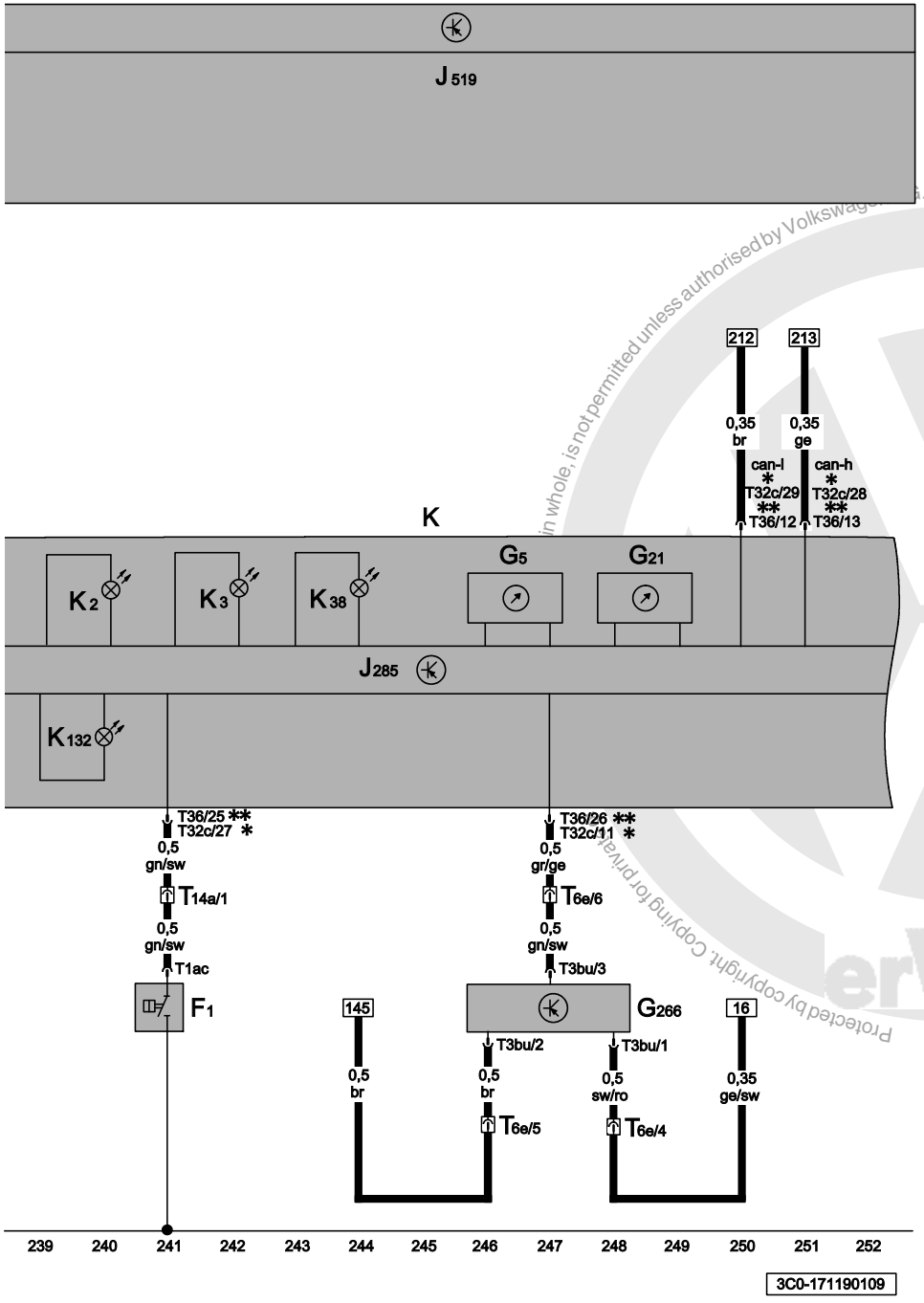


Fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump, fuel gauge sender

G	Fuel gauge sender
G1	Fuel gauge
G6	Fuel system pressurisation pump
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J538	Fuel pump control unit
K	Dash panel insert
K105	Reserve fuel warning lamp
T3ai	3-pin connector
T5u	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T32c	32-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
*	Applicable from November 2008
**	Applicable to October 2008
***	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender, rev. counter, speedometer

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
*	Applicable from November 2008
**	Applicable to October 2008

ws	=	white
sw	=	black
ro	=	red
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3.6 l/220 kW - Motronic, engine code BWS

from May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

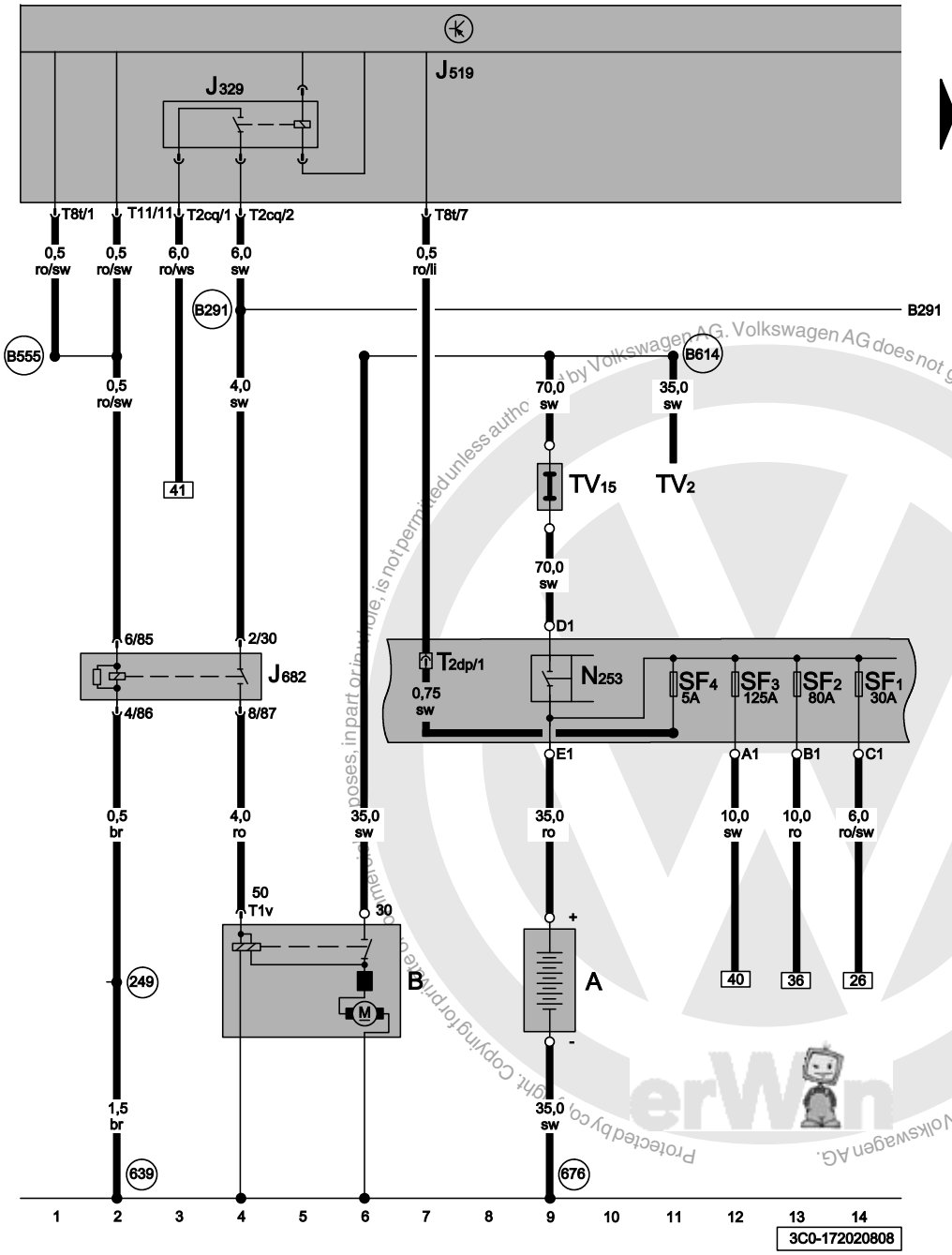
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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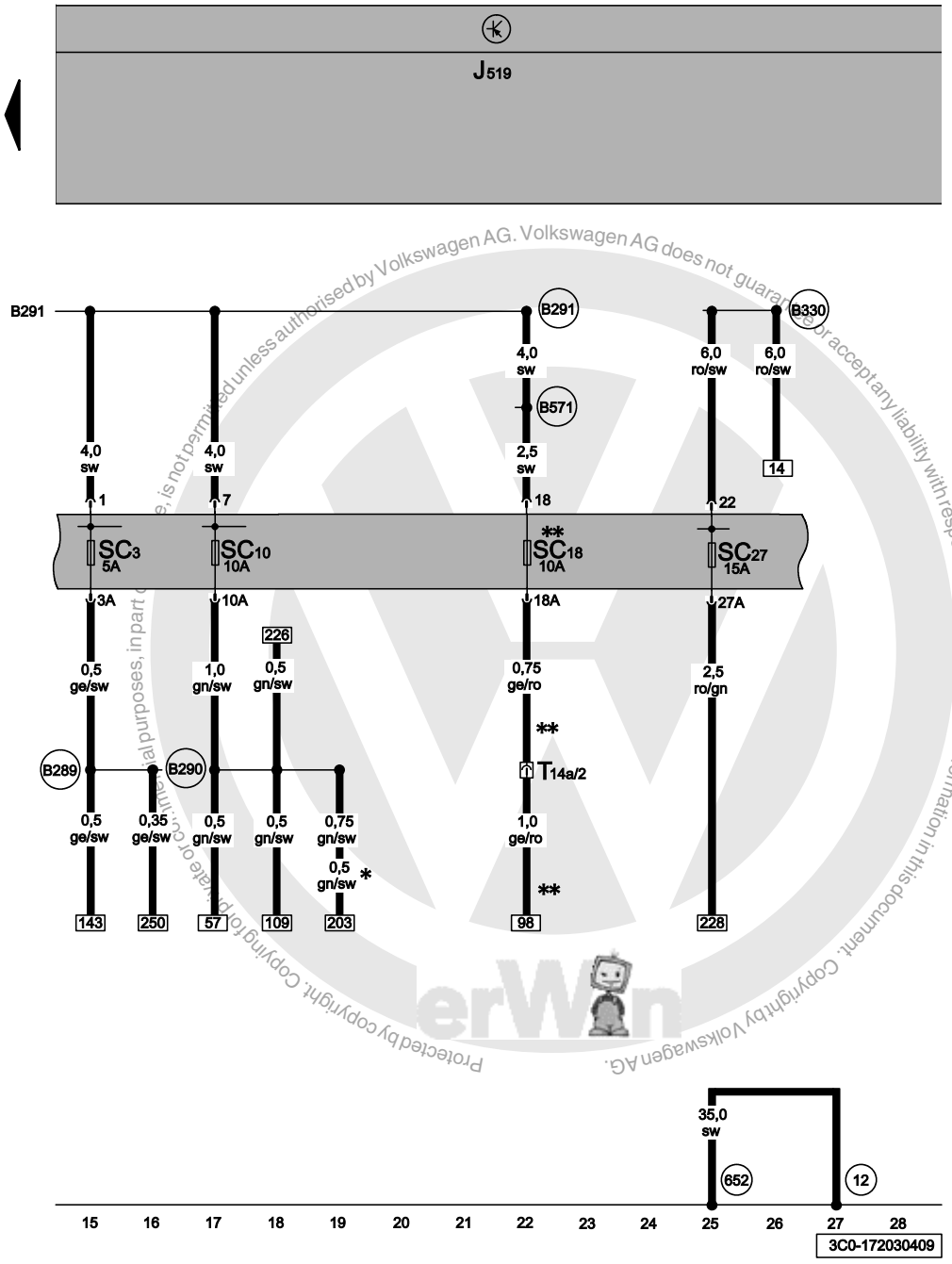


Battery, starter, term. 15 voltage supply relay, term. 50 voltage supply relay, fuses SF

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
N253	Battery isolation igniter
SF1	Fuse 1 in fuse holder F
SF2	Fuse 2 in fuse holder F
SF3	Fuse 3 in fuse holder F
SF4	Fuse 4 in fuse holder F
T1v	Single connector
T2cq	2-pin connector
T2dp	2-pin connector, black, coupling point, in main fuse box
T8t	8-pin connector
T11	11-pin connector
TV2	Terminal 30 wiring junction
TV15	Wiring connector
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
676	Earth point 2, on left in luggage compartment
B291	Connection 15 (15a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B614	Connection 23 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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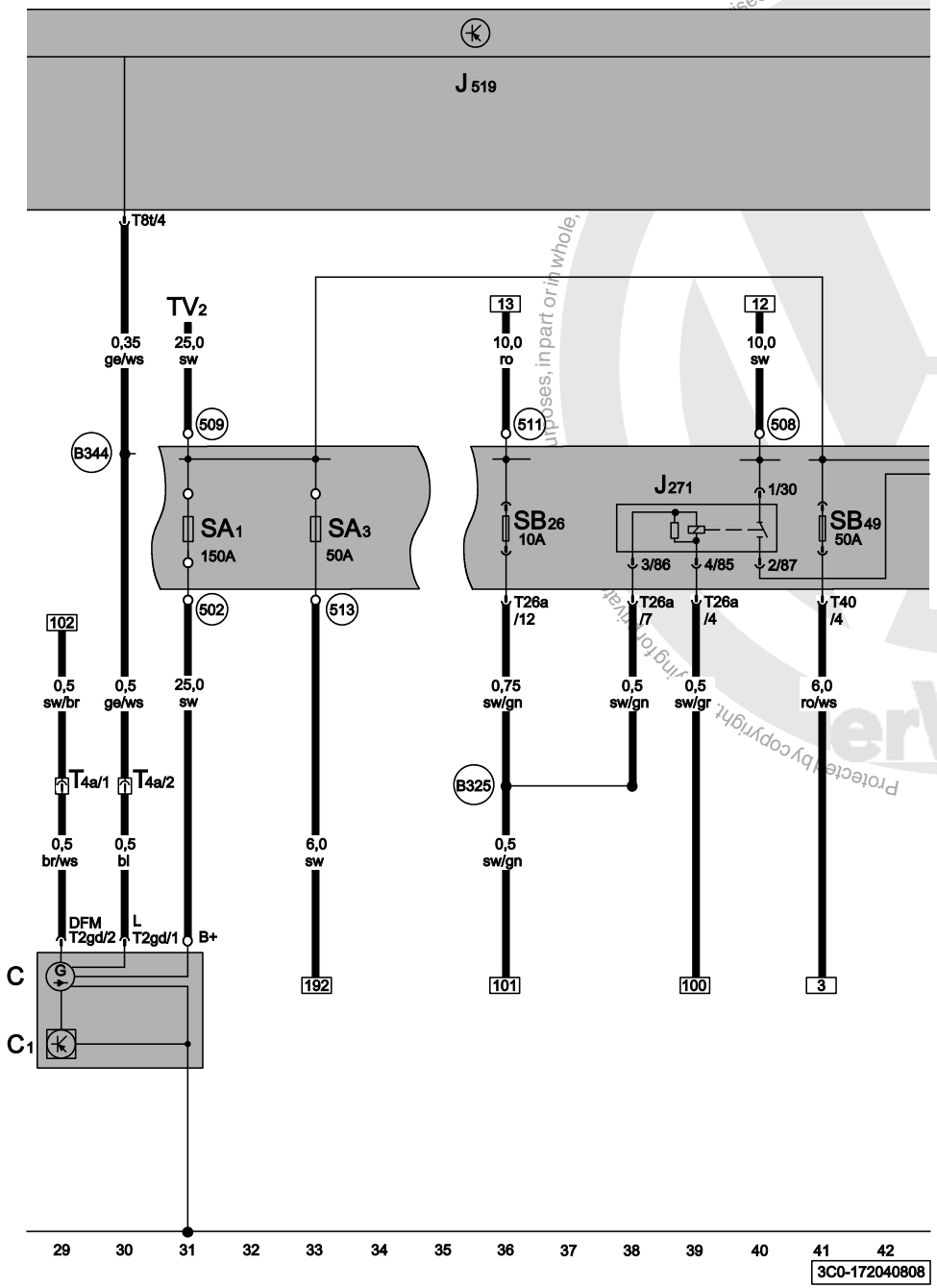


Fuses SC

J519	Onboard supply control unit
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
12	Earth point, on left in engine compartment
652	Earth point, engine and gearbox earth
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B571	Connection 38, in main wiring harness
*	Applicable from May 2009
**	Applicable to April 2009

ws	=	white
sw	=	black
ro	=	red
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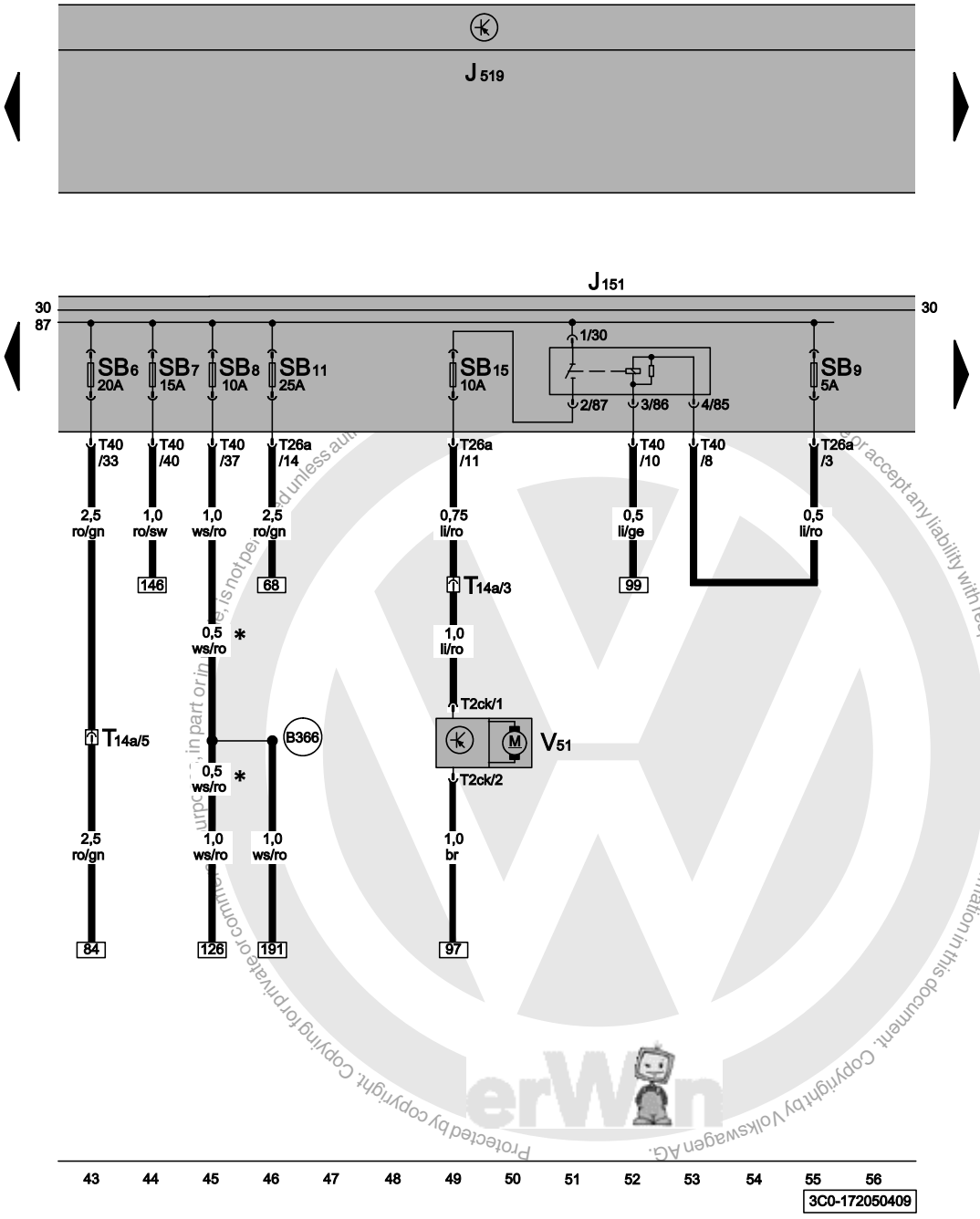


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Alternator, current supply relay for Motronic, fuses SA and SB

C	Alternator
C1	Voltage regulator
J271	Motronic current supply relay, on E-box, on left in engine compartment (100)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SB26	Fuse 26 on fuse holder B
SB49	Fuse 49 on fuse holder B
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T26a	26-pin connector, on E-box
T40	40-pin connector, on E-box
TV2	Terminal 30 wiring junction
502	Threaded connection 1 (30a) on relay plate
508	Screw connection (30) on E-box
509	Threaded connection 1 (29), on E-box
511	Threaded connection 2 (30), on E-box
513	Threaded connection 3 (30a) on relay plate
B325	Connection 11 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness

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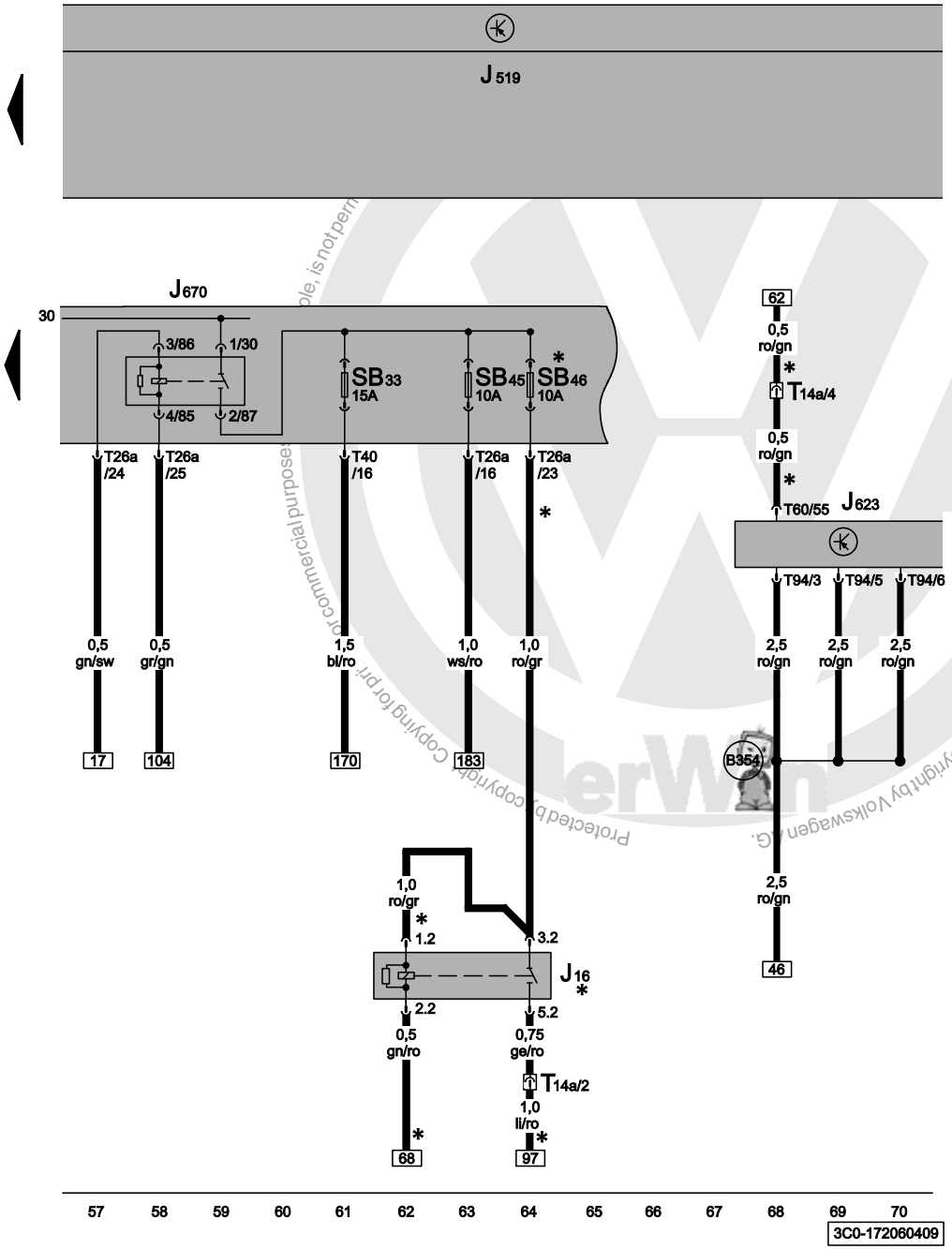


Continued coolant circulation relay, fuses SB, continued coolant circulation pump

J151	Continued coolant circulation relay, on E-box, on left in engine compartment (100)
J519	Onboard supply control unit
SB6	Fuse 6 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB8	Fuse 8 on fuse holder B
SB9	Fuse 9 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB15	Fuse 15 on fuse holder B
T2ck	2-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector
T40	40-pin connector
V51	Continued coolant circulation pump
B366	Connection 17 (87a), in main wiring harness
*	Applicable from May 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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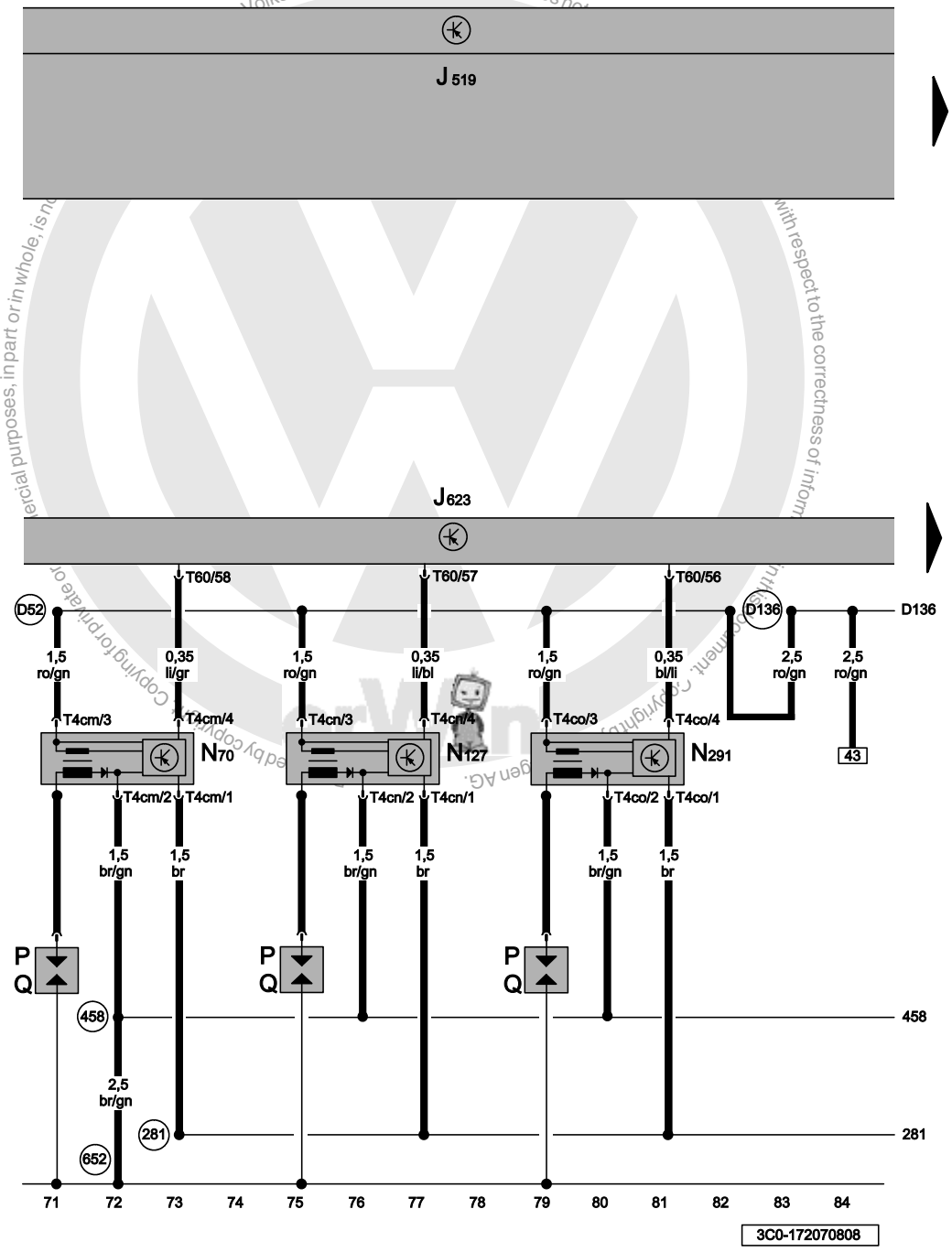


Engine control unit, Motronic current supply relay 2, fuses SB

J16	Current supply relay
J519	Onboard supply control unit
J623	Engine control unit
J670	Motronic current supply relay 2, on E-box, on left in engine compartment (167)
SB33	Fuse 33 on fuse holder B
SB45	Fuse 45 on fuse holder B
SB46	Fuse 46 on fuse holder B
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T26a	26-pin connector, on E-box
T40	40-pin connector, on E-box
T60	60-pin connector
T94	94-pin connector
B354	Connection 5 (87a), in main wiring harness
*	Applicable from May 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

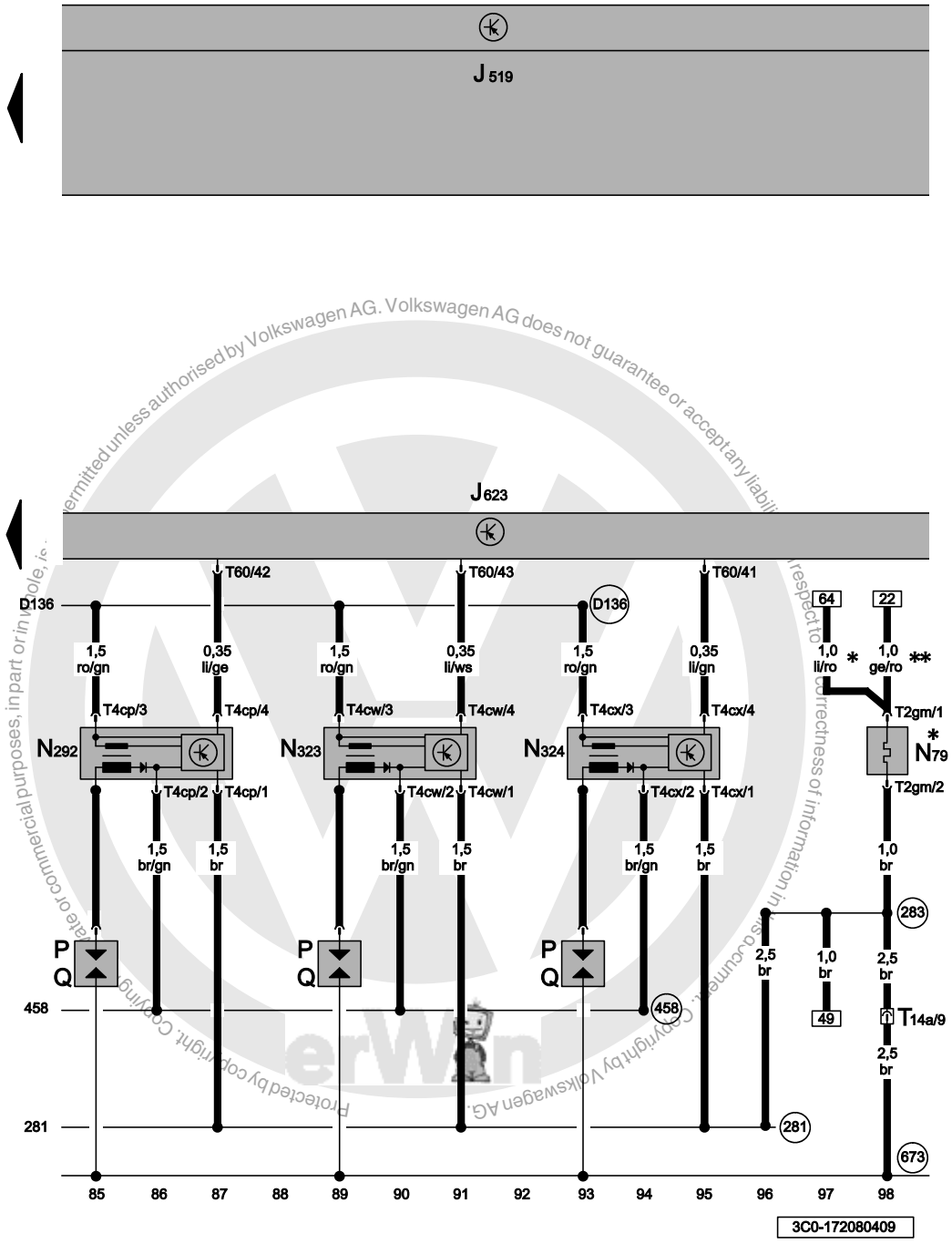
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Engine control unit, ignition coils 1-3 with output stage, spark plugs, spark plug connectors

J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
P	Spark plug connector
Q	Spark plug
T4cm	4-pin connector
T4cn	4-pin connector
T4co	4-pin connector
T60	60-pin connector
281	Earth point 1, engine prewiring harness
458	Earth point 3, engine prewiring harness
652	Earth point, engine and gearbox earth
D52	Positive connection (15a), in engine compartment wiring harness
D136	Positive connection 2 (15a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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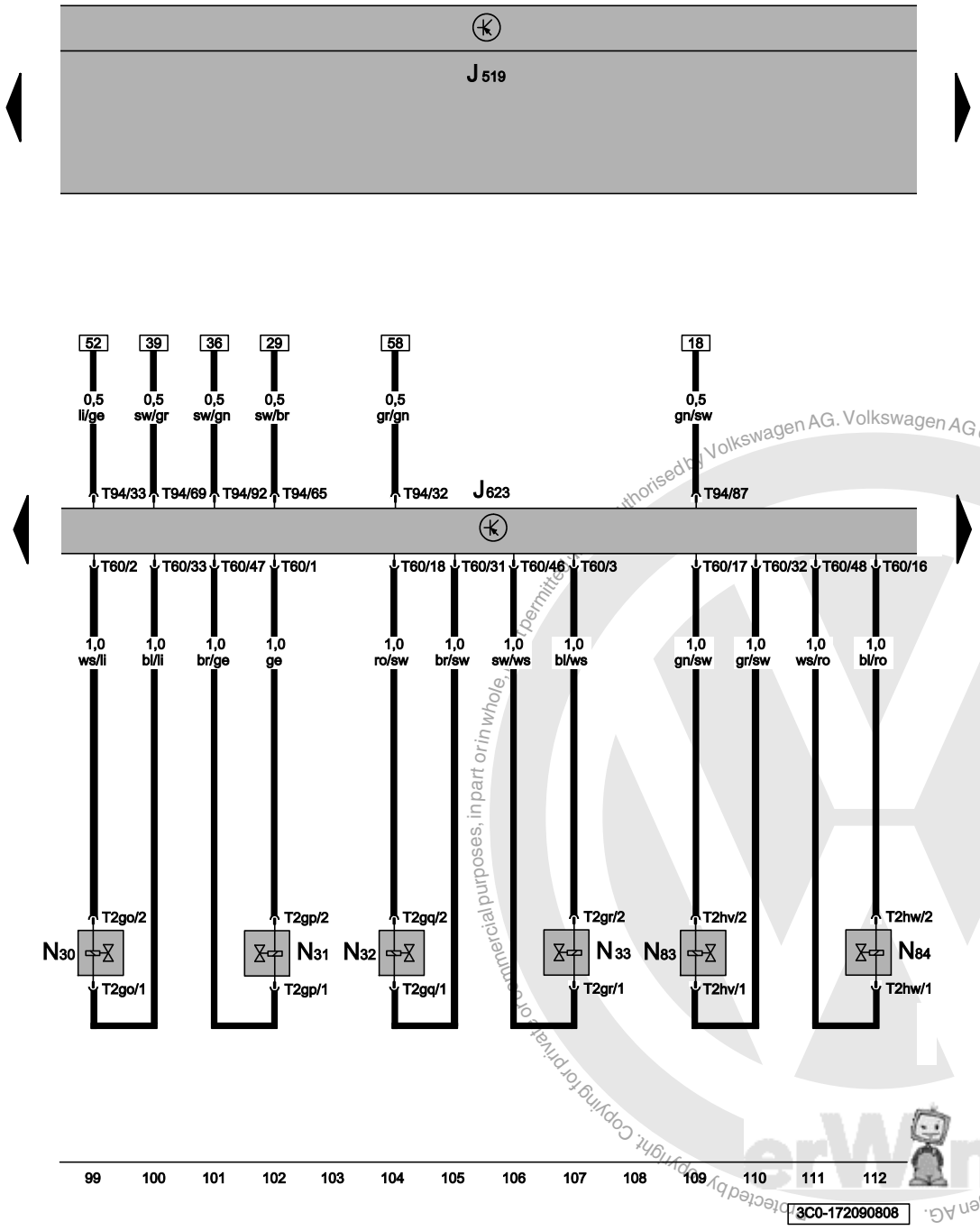


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, crankcase breather heater element, ignition coils 4-6 with output stage, spark plugs, spark plug connector

J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
N292	Ignition coil 4 with output stage
N323	Ignition coil 5 with output stage
N324	Ignition coil 6 with output stage
P	Spark plug connector
Q	Spark plug
T2gm	2-pin connector
T4cp	4-pin connector
T4cw	4-pin connector
T4cx	4-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
281	Earth point 1, engine prewiring harness
283	Earth point 2, engine prewiring harness
458	Earth point 3, engine prewiring harness
673	Earth point 3, on front of left longitudinal member
D136	Positive connection 2 (15a), in engine compartment wiring harness
*	Applicable from May 2009
**	Applicable to April 2009

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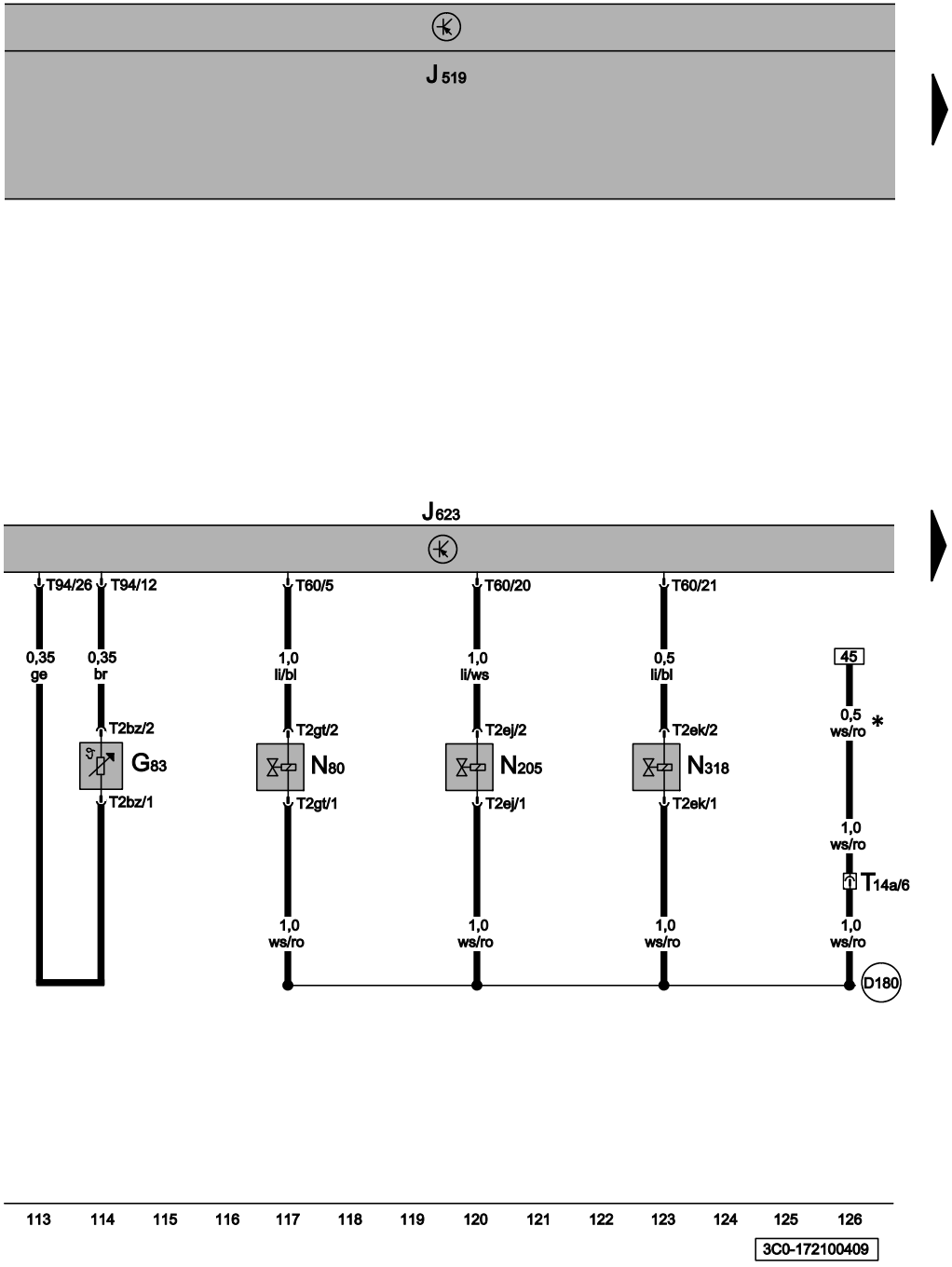


Engine control unit, injectors for cylinders 1-6

J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
N83	Injector, cylinder 5
N84	Injector, cylinder 6
T2go	2-pin connector
T2gp	2-pin connector
T2gq	2-pin connector
T2gr	2-pin connector
T2hv	2-pin connector
T2hw	2-pin connector
T60	60-pin connector
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

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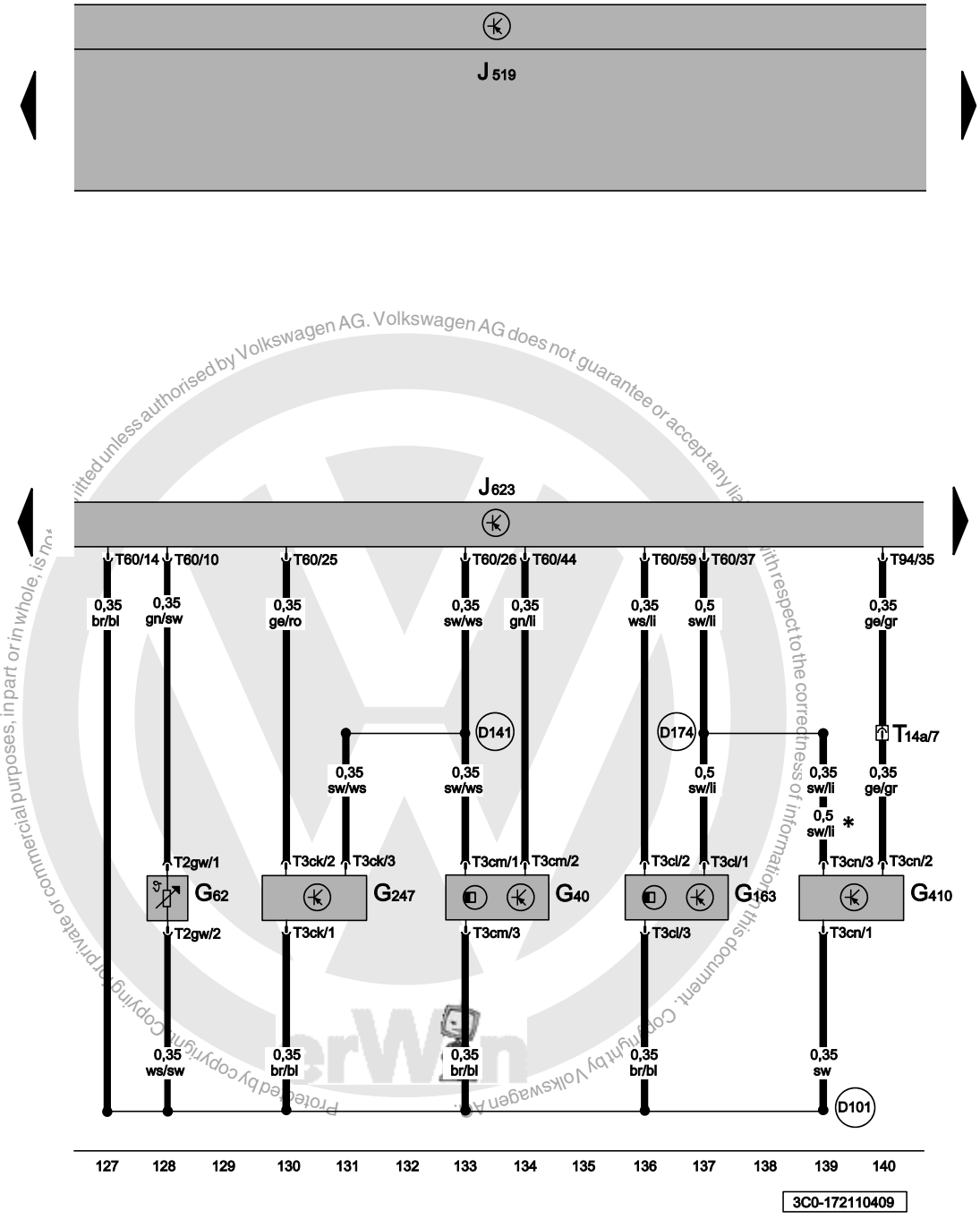


Engine control unit, activated charcoal filter system solenoid valve 1, camshaft adjustment control valve 1, radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N318	Exhaust camshaft control valve 1
T2bz	2-pin connector
T2ek	2-pin connector
T2ej	2-pin connector
T2gt	2-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
D180	Connection (87a), in engine compartment wiring harness
*	Applicable from May 2009

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
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li = purple
ge = yellow
or = orange
rs = pink

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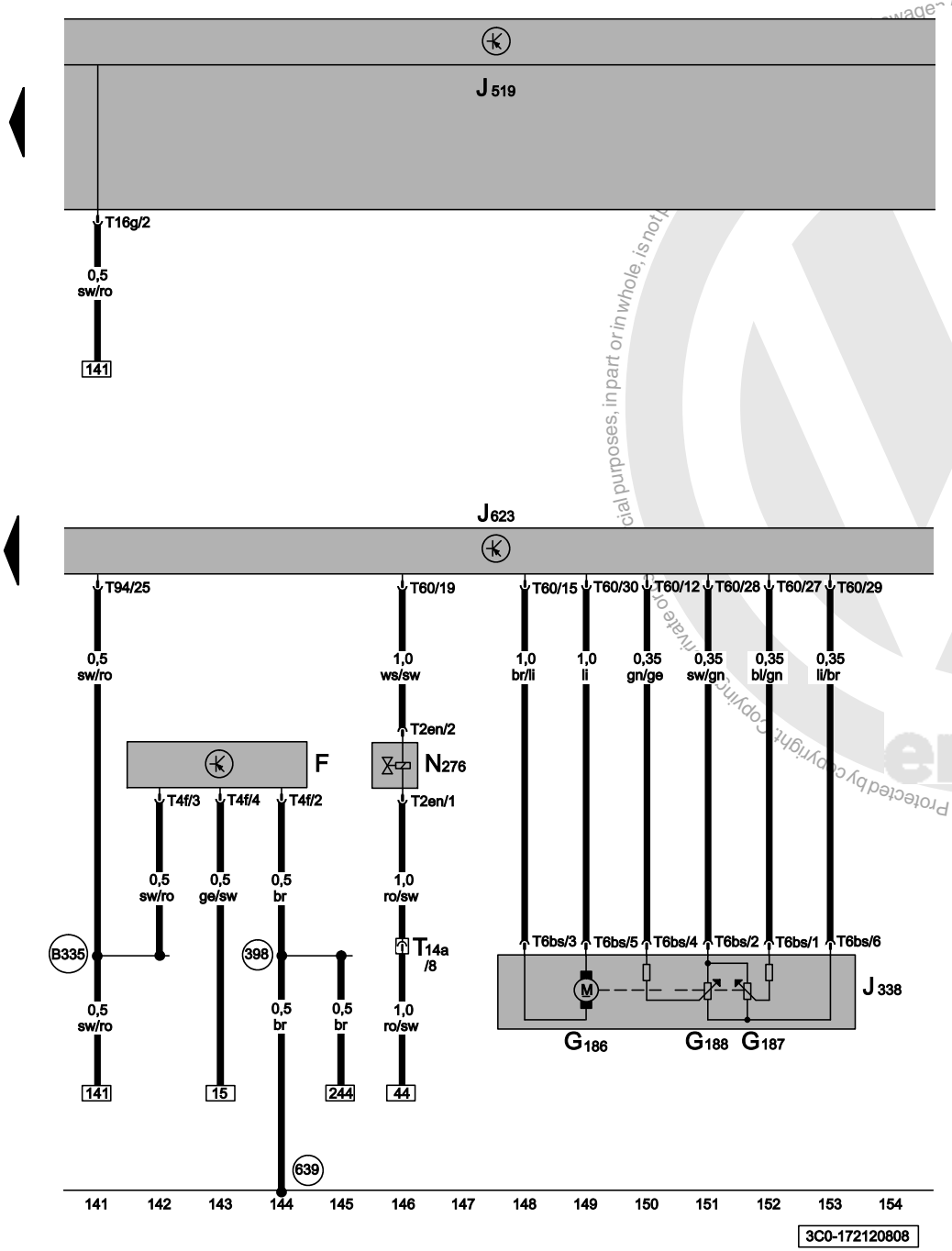


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Engine control unit, fuel pressure sender, fuel pressure sender for low-pressure, Hall sender, coolant temperature sender

G40	Hall sender
G62	Coolant temperature sender
G163	Hall sender 2
G247	Fuel pressure sender
G410	Fuel pressure sender for low-pressure
J519	Onboard supply control unit
J623	Engine control unit
T2gw	2-pin connector
T3ck	3-pin connector
T3cl	3-pin connector
T3cm	3-pin connector
T3cn	3-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
D101	Connection 1, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness
D174	Connection 2 (5V) in engine prewiring harness
*	Applicable from May 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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rs	=	pink

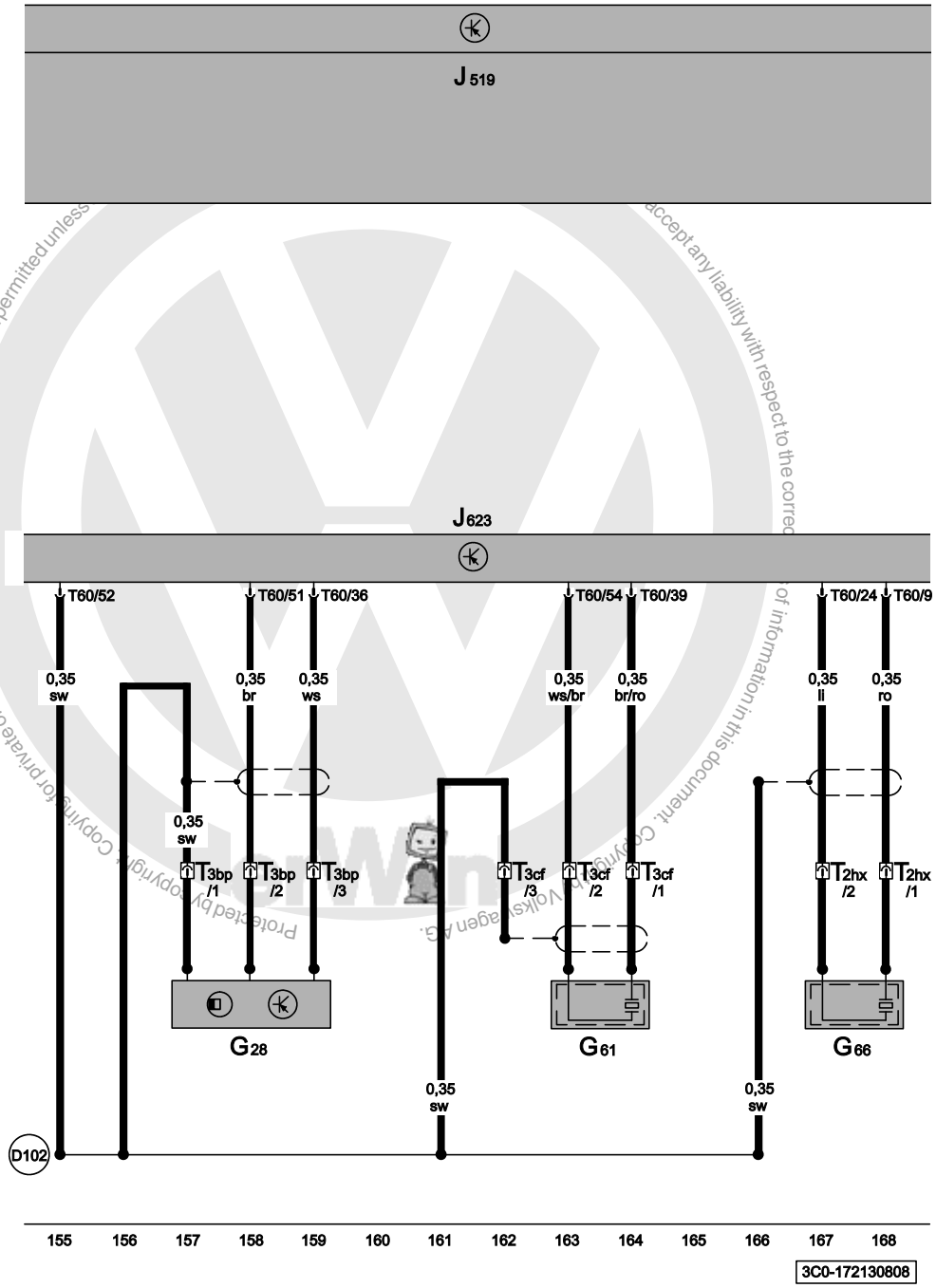


Engine control unit, throttle valve module, fuel pressure regulating valve, brake light switch

F	Brake light switch
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit
N276	Fuel pressure regulating valve
T2en	2-pin connector
T4f	4-pin connector
T6bs	6-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T16g	16-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
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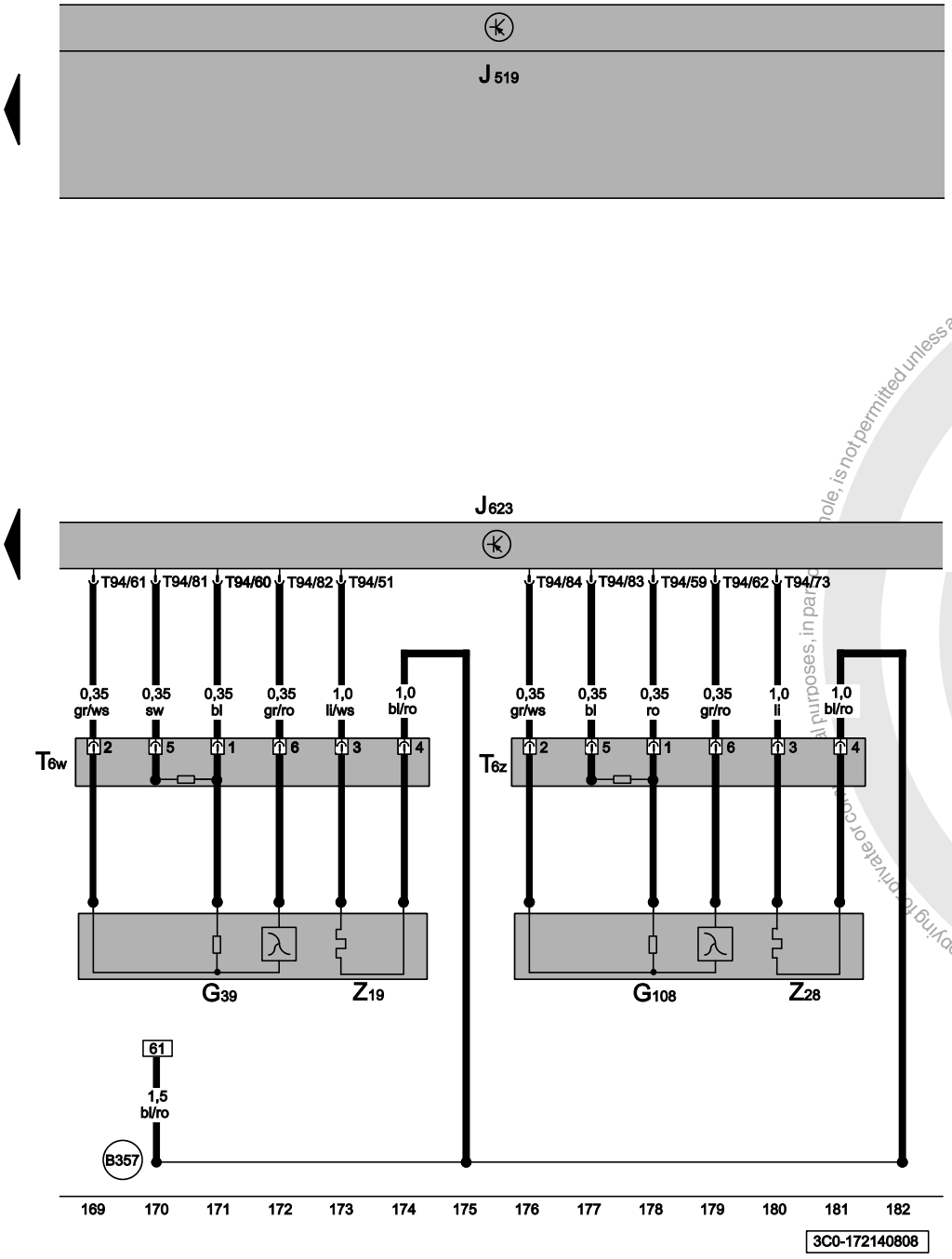


Engine control unit, engine speed sender, knock sensor 1 and 2

G28	Engine speed sender
G61	Knock sensor 1
G66	Knock sensor 2
J519	Onboard supply control unit
J623	Engine control unit
T2hx	2-pin connector, black
T3bp	3-pin connector, grey
T3cf	3-pin connector, black
T60	60-pin connector
D102	Connection 2, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
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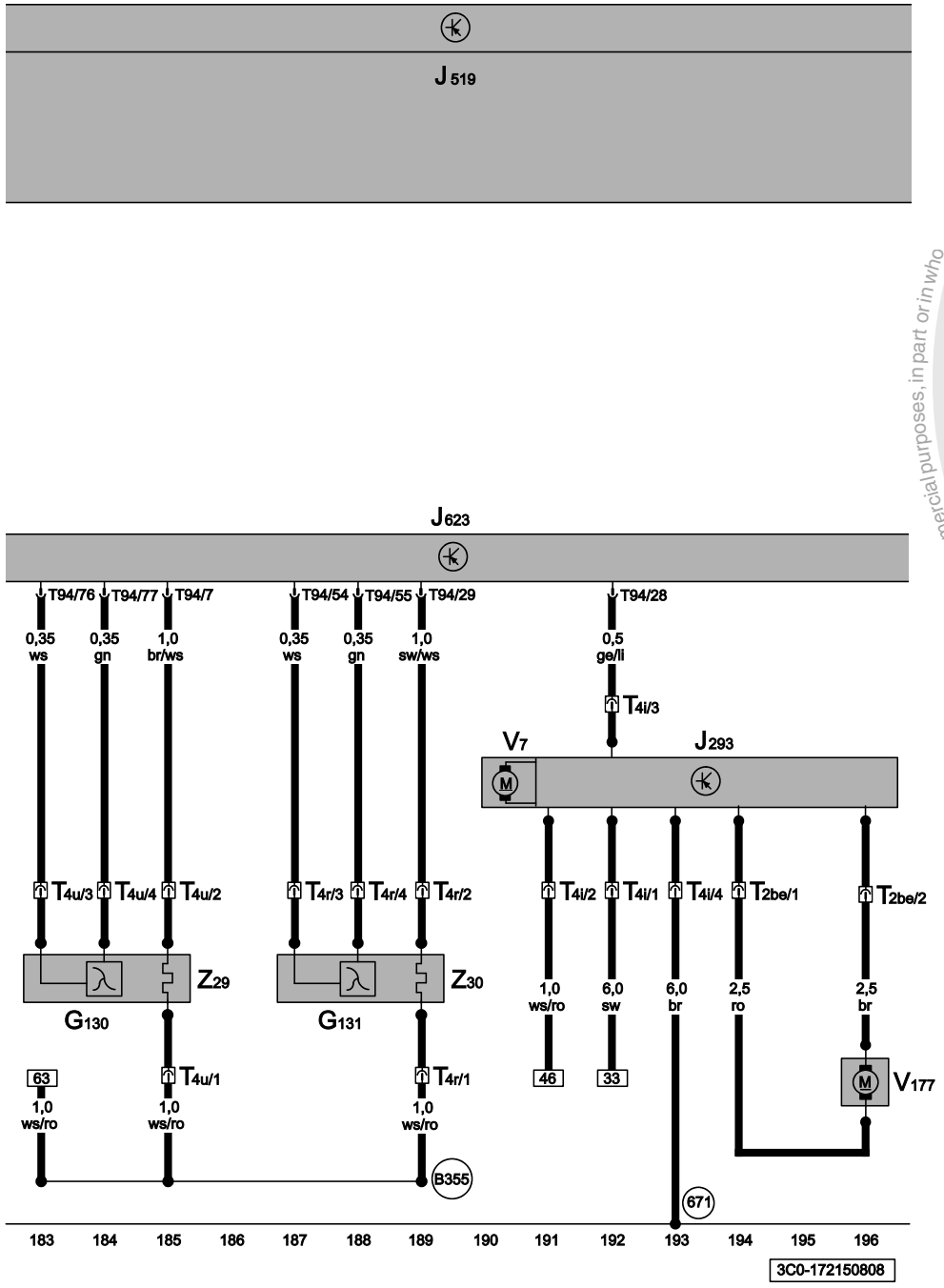


Engine control unit, Lambda probe, Lambda probe heater

G39	Lambda probe
G108	Lambda probe 2
J519	Onboard supply control unit
J623	Engine control unit
T6w	6-pin connector, black, coupling point for Lambda probe
T6z	6-pin connector, black, coupling point for Lambda probe
T94	94-pin connector
Z19	Lambda probe heater
Z28	Lambda probe heater 2
B357	Connection 8 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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gr	=	grey
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Engine control unit, Lambda probes after catalytic converter, radiator fan

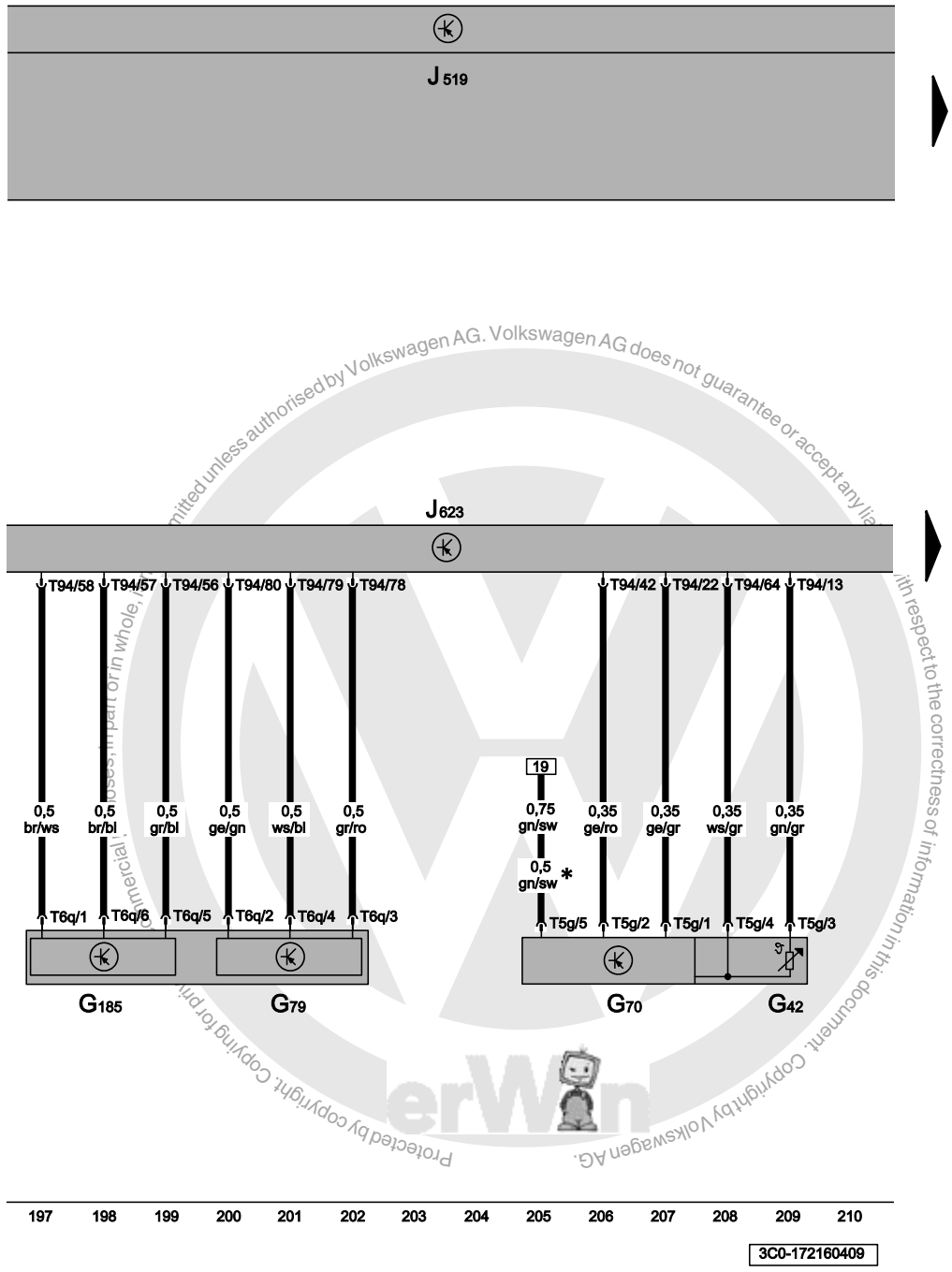
G130	Lambda probe after catalytic converter
G131	Lambda probe 2 after catalytic converter
J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
T2be	2-pin connector, on lock carrier
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T4r	4-pin connector, coupling point for Lambda probe
T4u	4-pin connector, coupling point for Lambda probe
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
671	Earth point 1, on front of left longitudinal member
B355	Connection 6 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
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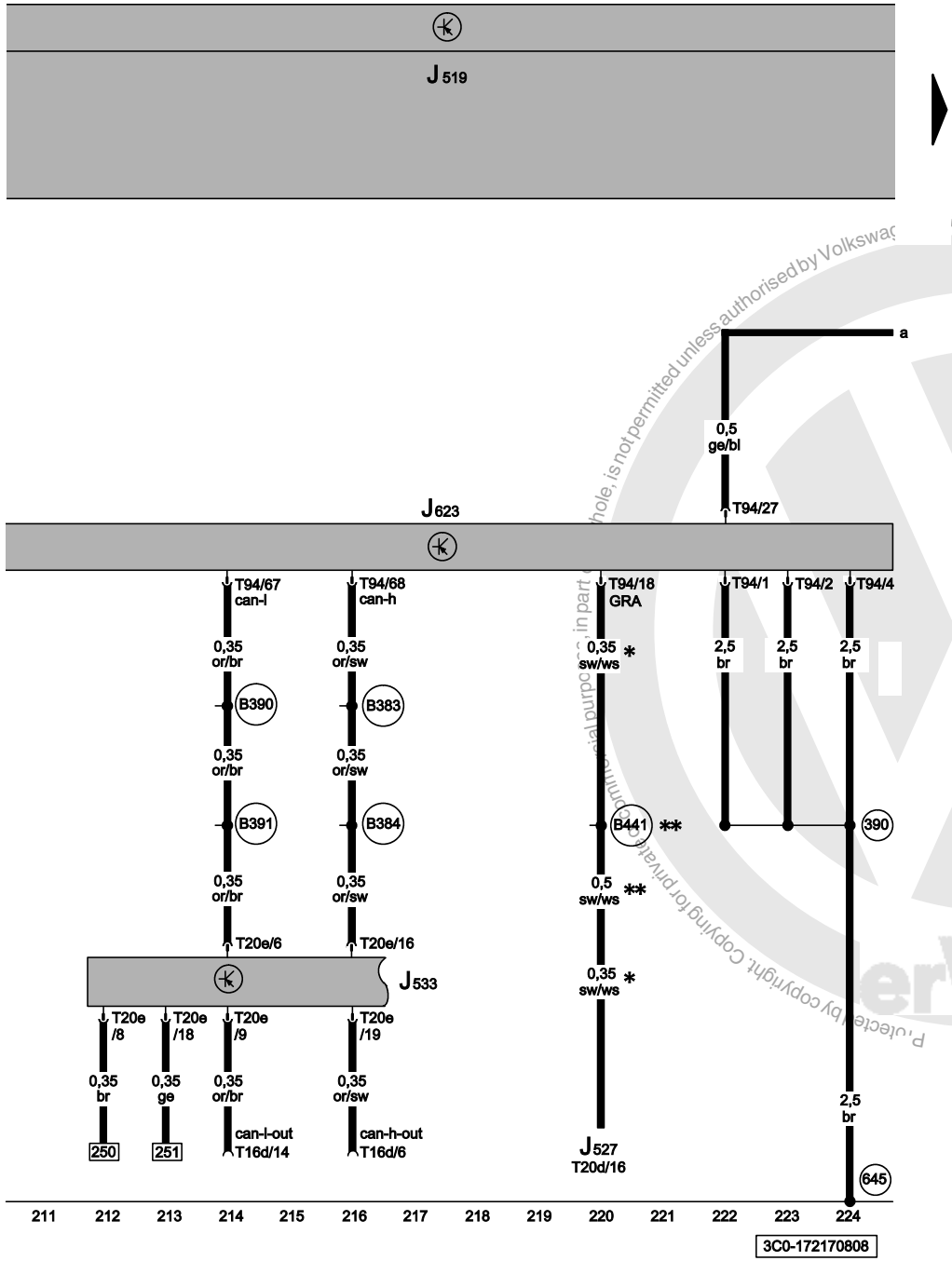
Engine control unit, intake air temperature sender, air mass meter, accelerator position sender

G42	Intake air temperature sender
G70	Air mass meter
G79	Accelerator position sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T5g	5-pin connector
T6q	6-pin connector
T94	94-pin connector
*	Applicable from May 2009



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ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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or	=	orange
rs	=	pink

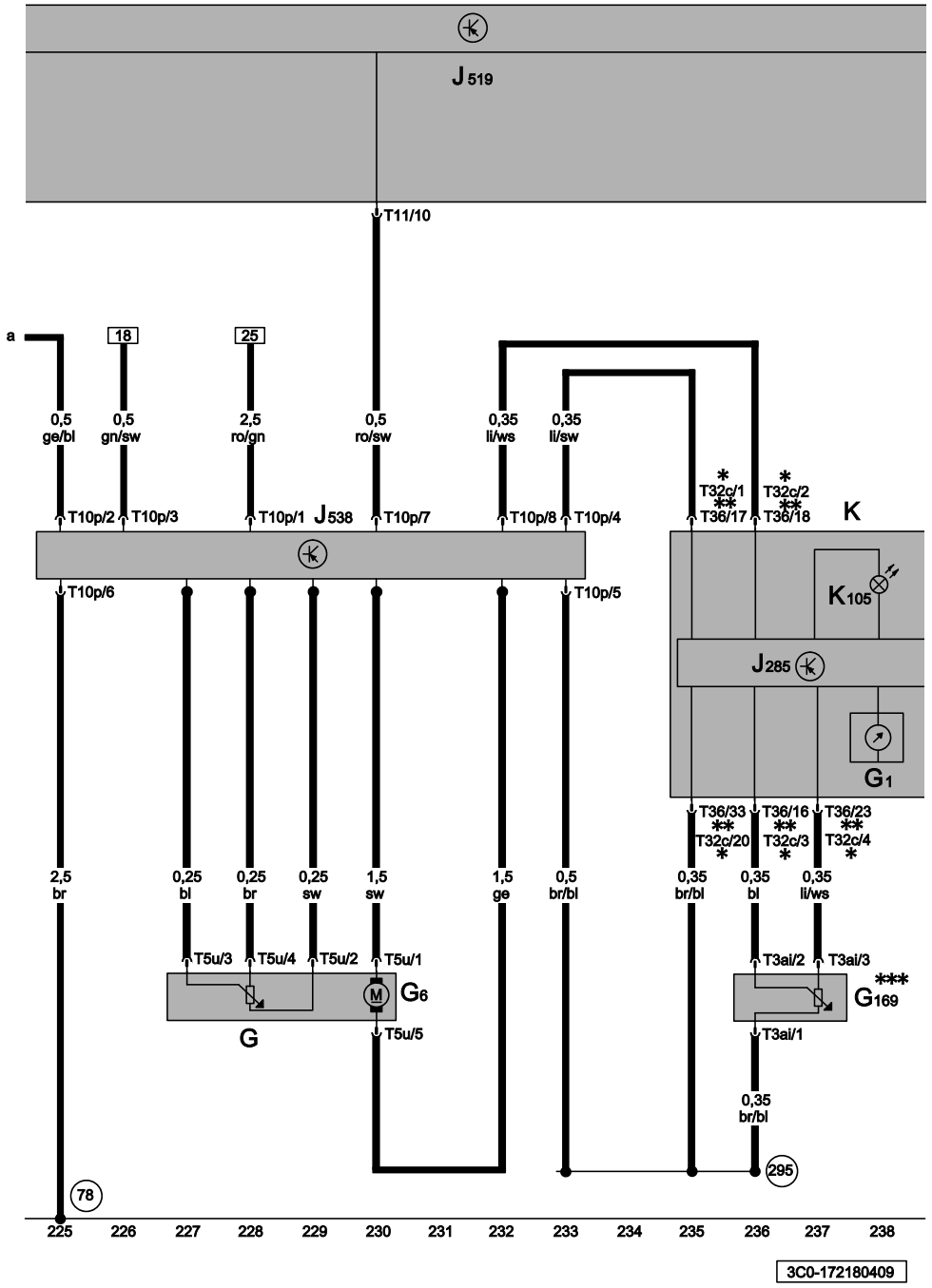


Engine control unit, data bus diagnosis interface, self-diagnosis connection

J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
J623	Engine control unit
T16d	16-pin connector, self-diagnosis connection
T20d	20-pin connector
T20e	20-pin connector
T94	94-pin connector
390	Earth connection 25, in main wiring harness
645	Earth point 1, on bulkhead
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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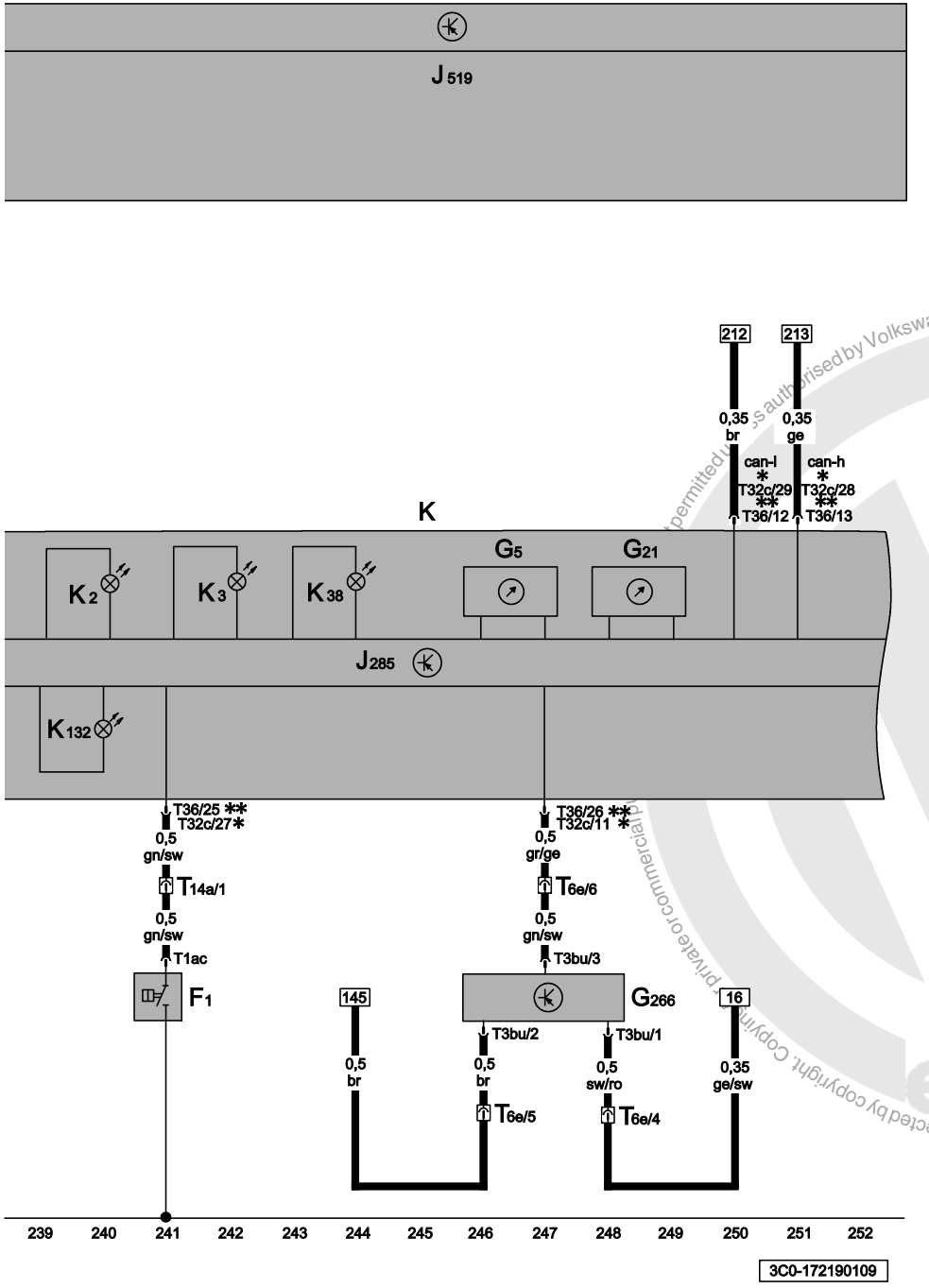


Fuel pump control unit, dash panel insert, fuel gauge, fuel system pressurisation pump, fuel gauge sender

G	Fuel gauge sender
G1	Fuel gauge
G6	Fuel system pressurisation pump
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J538	Fuel pump control unit
K	Dash panel insert
K105	Reserve fuel warning lamp
T3ai	3-pin connector
T5u	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T32c	32-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Applicable from November 2008
**	Applicable to October 2008
***	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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Dash panel insert, warning lamps, oil pressure switch, oil level and oil temperature sender, rev. counter, speedometer

F1	Oil pressure switch
G5	Rev. counter
G21	Speedometer
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
*	Applicable from November 2008
**	Applicable to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Auxiliary coolant heater

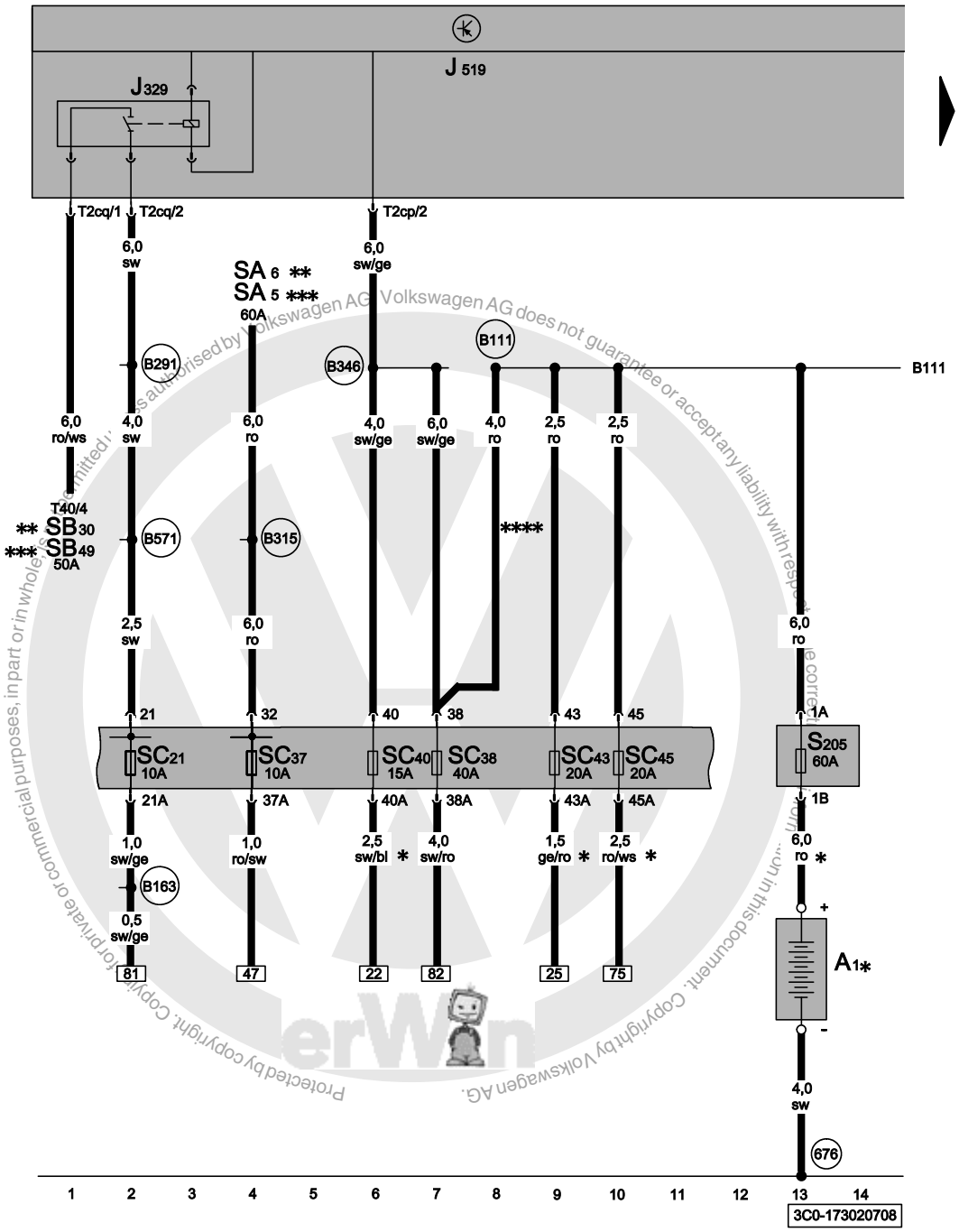
⇒ **With remote control receiver and preselection clock**
⇒ **With no remote control receiver and with preselection clock**
From May 2008

Notes:
For information concerning
- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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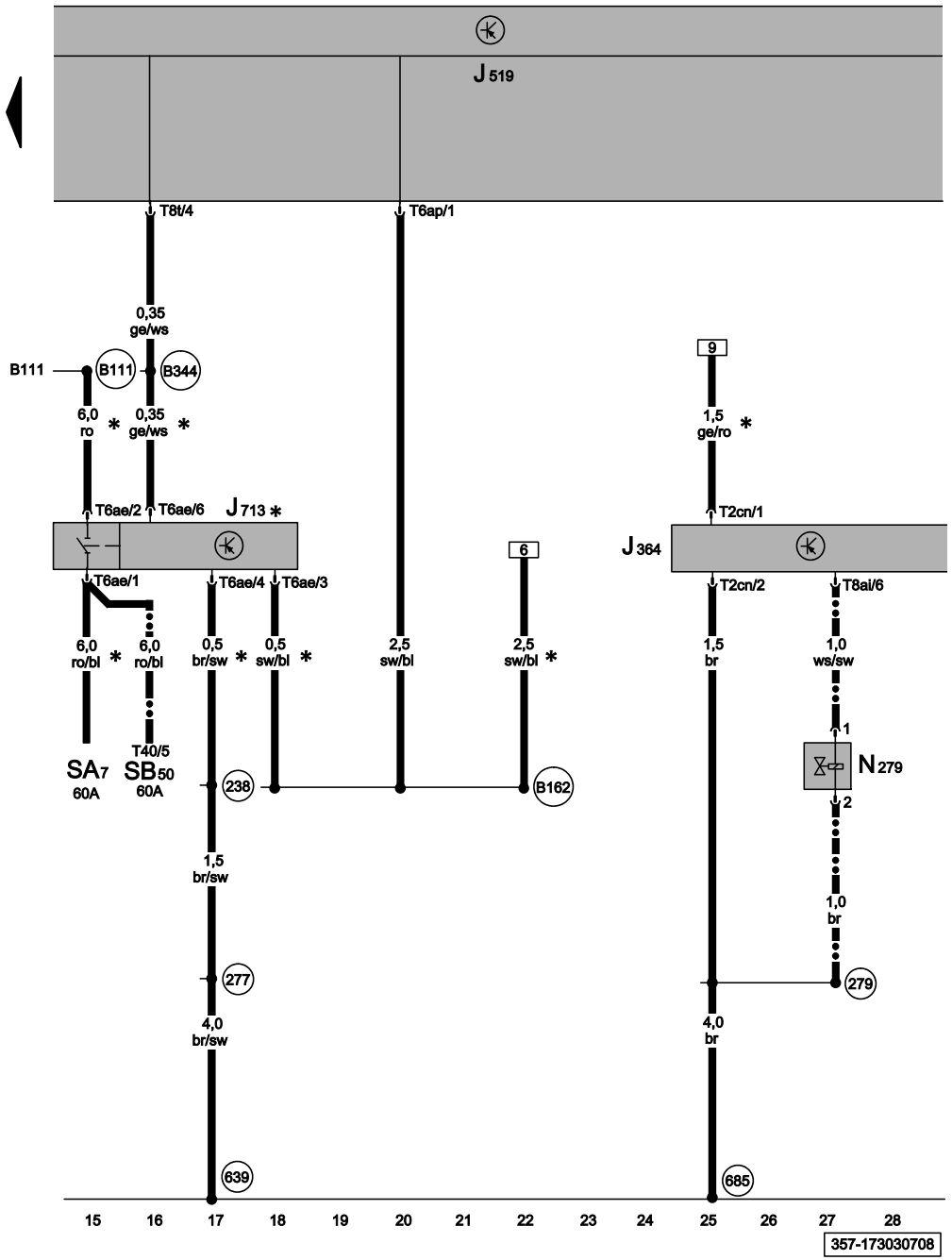


Second battery, terminal 15 voltage supply relay, fuses

A1	Second battery
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
S205	Fuse 2 (30), near second battery
SA5	Fuse 5 on fuse holder A
SA6	Fuse 6 on fuse holder A
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC21	Fuse 21 on fuse holder C
SC37	Fuse 37 on fuse holder C
SC38	Fuse 38 on fuse holder C
SC40	Fuse 40 on fuse holder C
SC43	Fuse 43 on fuse holder C
SC45	Fuse 45 on fuse holder C
T2cp	2-pin connector
T2cq	2-pin connector
T40	40-pin connector
676	Earth point 2, on left in luggage compartment
B111	Positive connection 1 (30a), in interior wiring harness
B163	Positive connection 1 (15), in interior wiring harness
B291	Connection 15 (15a), in main wiring harness
B315	Connection 1 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models with second battery
**	Only models with E-box low
***	Only models with E-box high
****	Only models with Climatronic and second battery

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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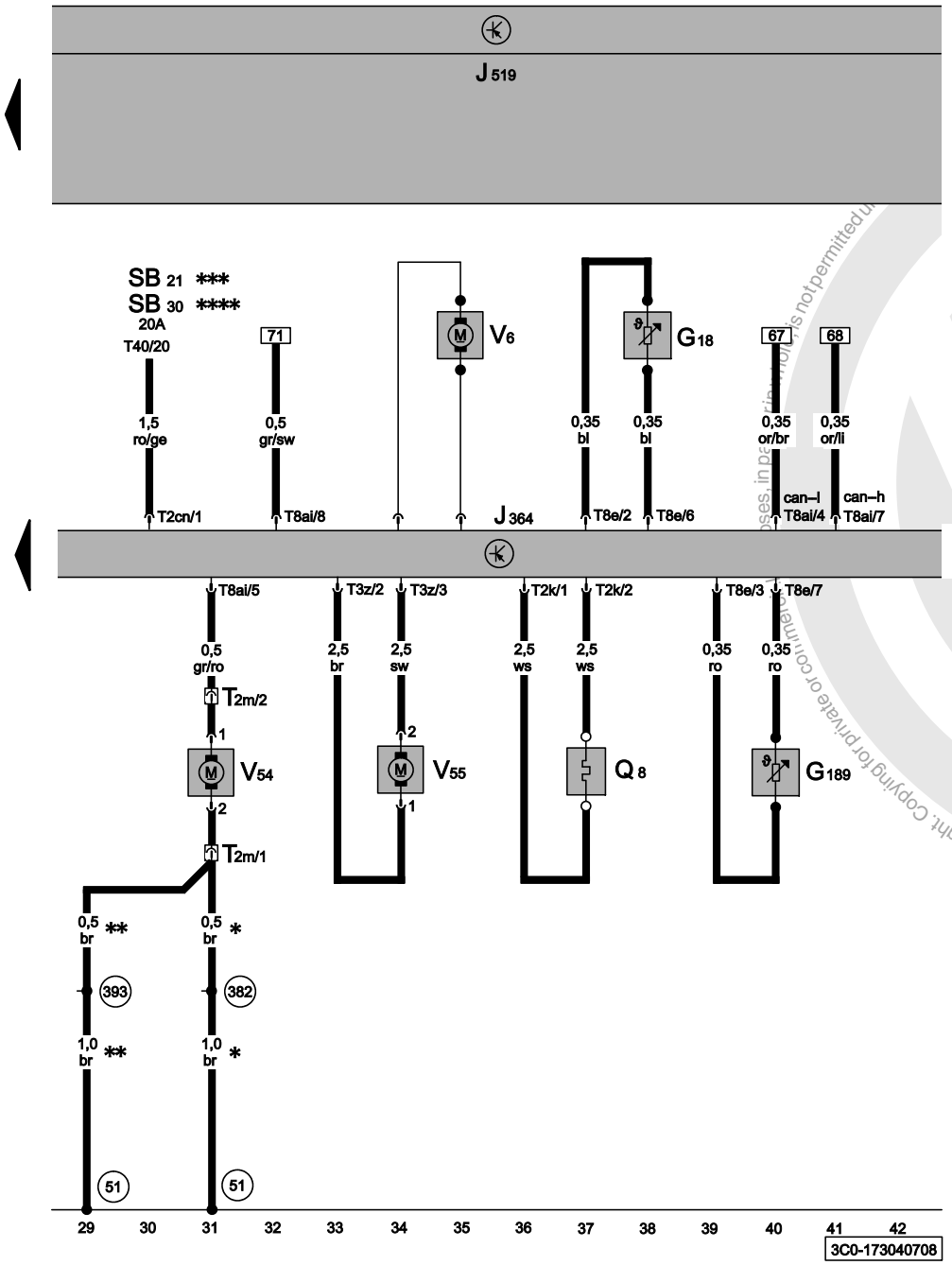


Auxiliary heater control unit, second battery charging circuit relay, heater coolant shut-off valve, fuses

J364	Auxiliary heater control unit
J519	Onboard supply control unit
J713	Second battery charging circuit relay
N279	Heater coolant shut-off valve
SA7	Fuse 7 on fuse holder A
SB50	Fuse 50 on fuse holder B
T2cn	2-pin connector, black
T6ae	6-pin connector
T6ap	6-pin connector
T8t	8-pin connector
T8ai	8-pin connector
T40	40-pin connector
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
279	Earth connection 5, in interior wiring harness
639	Earth point, left A-pillar
685	Earth point 1 at front of right longitudinal member
B111	Positive connection 1 (30a), in interior wiring harness
B162	Connection (75a), in interior wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with second battery
-●●-	Only models with engine codes AXZ, BLV and BWS

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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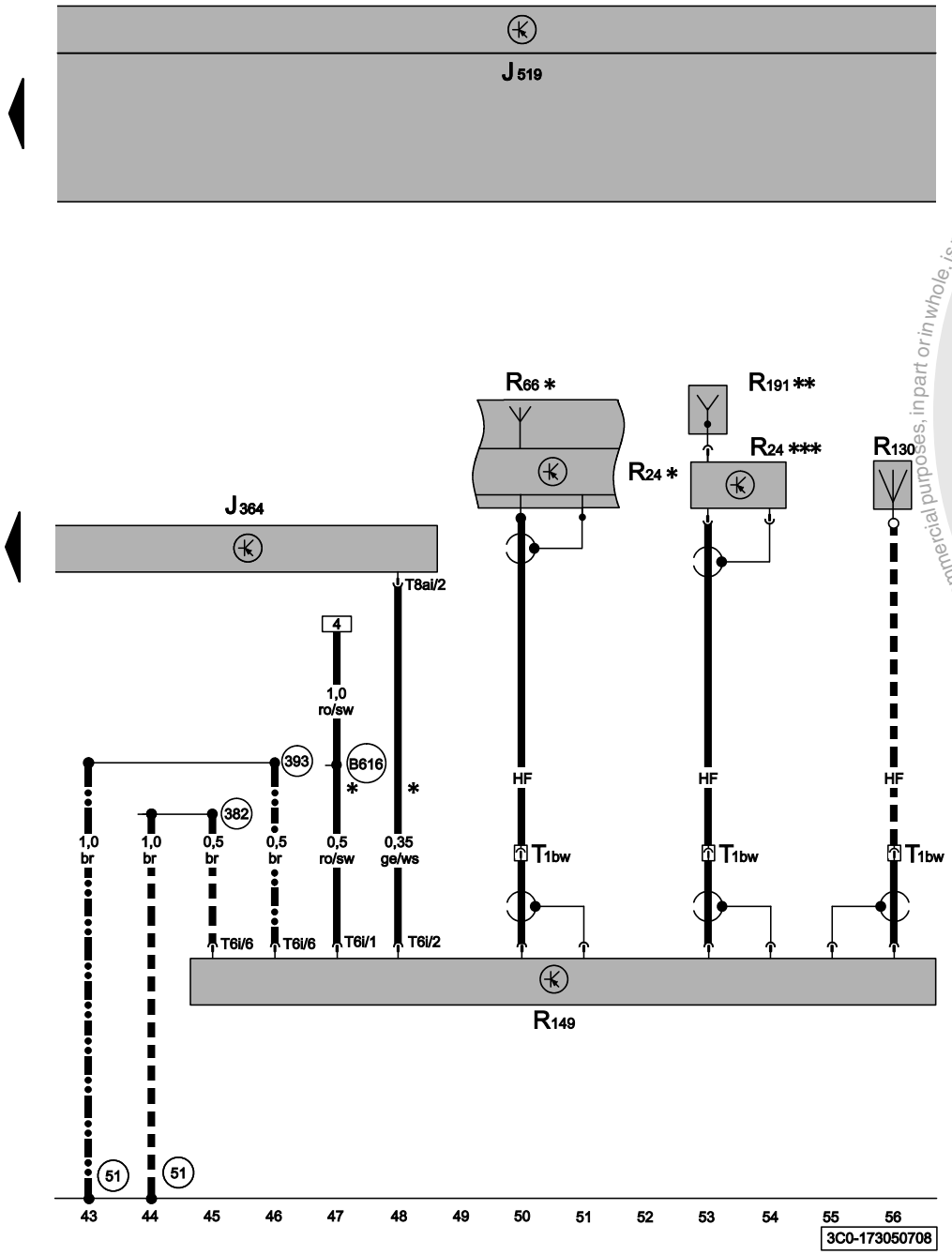


Auxiliary heater control unit, temperature sensor, overheating sensor, glow plug, combustion air blower, metering pump, circulation pump

G18	Temperature sensor
G189	Overheating sensor
J364	Auxiliary heater control unit
J519	Onboard supply control unit
SB21	Fuse 21 on fuse holder B
SB30	Fuse 30 on fuse holder B
T2k	2-pin connector
T2m	2-pin connector, black, near fuel tank
T2cn	2-pin connector
T3z	3-pin connector
T8e	8-pin connector
T8ai	8-pin connector
T40	40-pin connector
Q8	Glow plug with flame monitor
V6	Combustion air blower
V54	Metering pump, on right of fuel tank
V55	Circulation pump
51	Earth point, on right in luggage compartment
382	Earth connection 17, in main wiring harness
393	Earth connection 28, in main wiring harness
*	Only saloon models
**	Only Variant
***	Only models with E-box low
****	Only models with E-box high

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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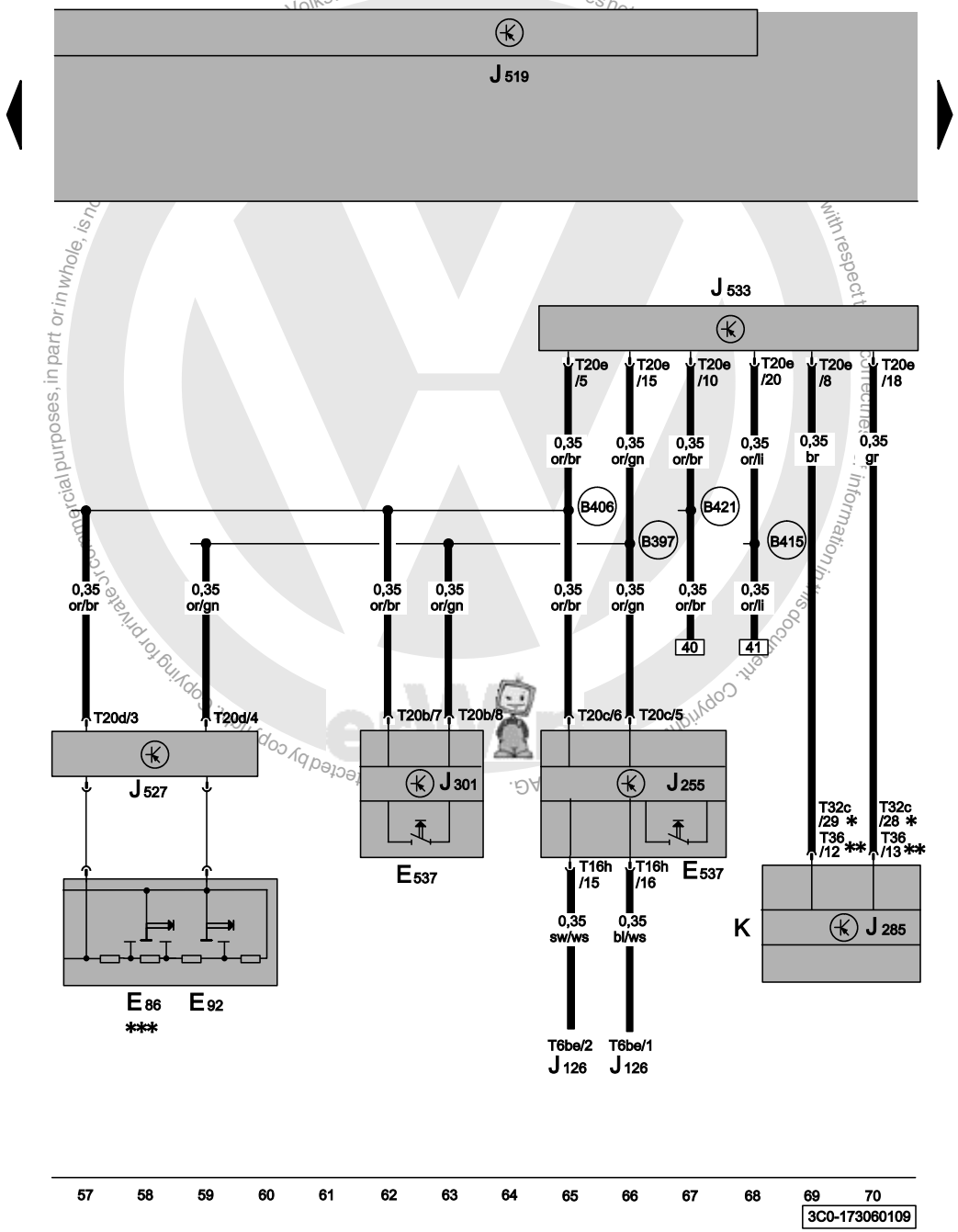


Auxiliary heater control unit, remote control receiver for auxiliary coolant heater, auxiliary heater aerial, aerials for navigation system / telephone / auxiliary heater, aerial amplifier

J364	Auxiliary heater control unit
J519	Onboard supply control unit
R24	Aerial amplifier
R66	Telephone, navigation system and auxiliary heater aerial
R130	Rear window aerial 1
R149	Remote control receiver for auxiliary coolant heater, centre behind dash panel
R191	Side window aerial
T1bw	Single pin connector, near roof aerial
T6i	6-pin connector
T8ai	8-pin connector
51	Earth point, on right in luggage compartment
382	Earth connection 17, in main wiring harness
393	Earth connection 28, in main wiring harness
B616	Positive connection 12 (30a), in interior wiring harness
*	Only models with remote control receiver for auxiliary coolant heater
**	Only models with telephone/telephone preparation
***	Only models with no telephone/telephone preparation
---	Only saloon models
-●●-	Only Variant

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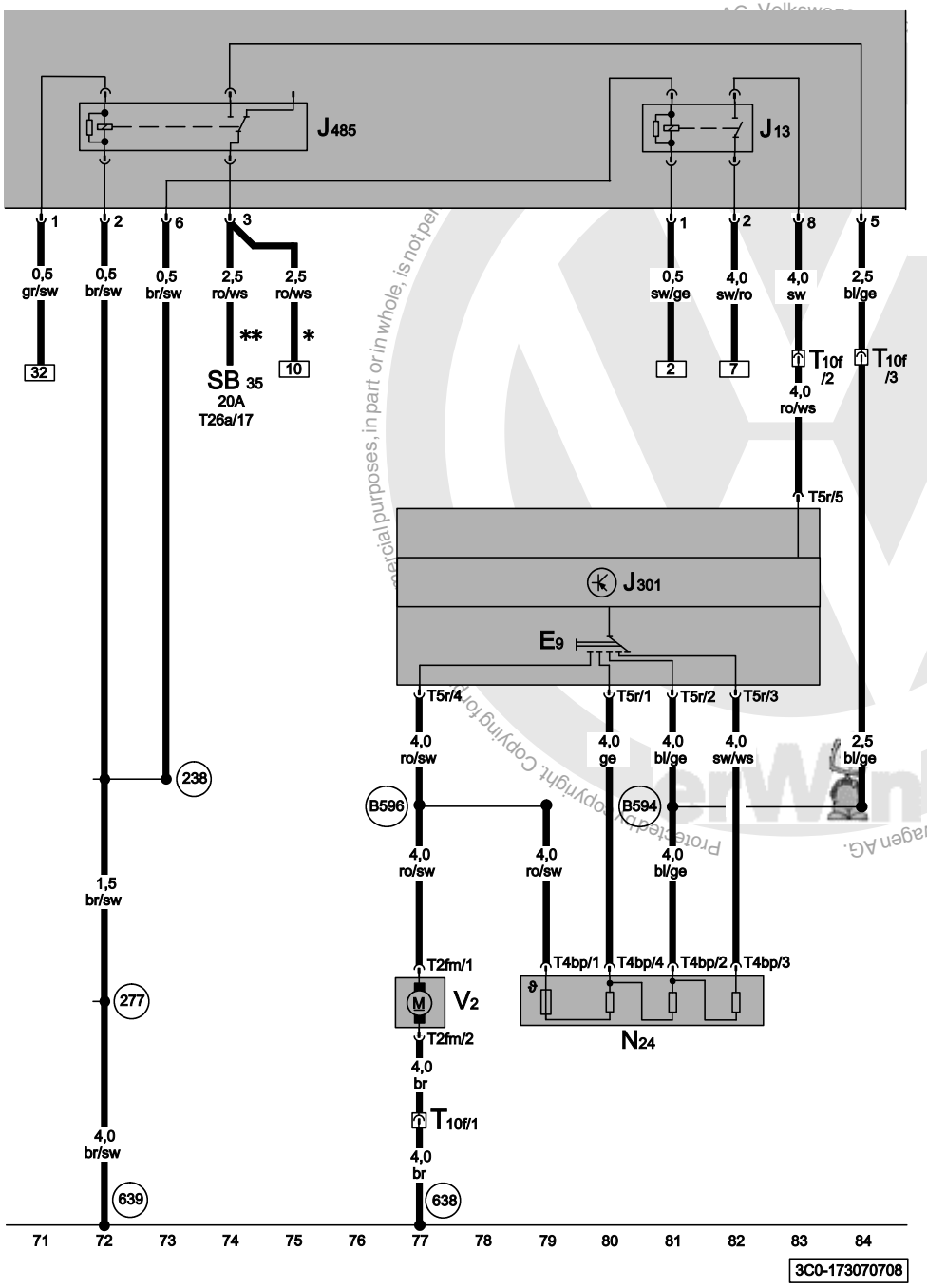
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Multifunction display call-up button, steering column electronics control unit, instant heating button, data bus diagnostic interface

E86	Multifunction display call-up button
E92	Reset button
E537	Instant heating button
J126	Fresh air blower control unit
J255	Climatronic control unit
J285	Control unit in dash panel insert
J301	Climatronic control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface, on left under dash panel
K	Dash panel insert
T6be	6-pin connector
T16h	16-pin connector
T20b	20-pin connector
T20c	20-pin connector
T20d	20-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008
***	Preselection clock call-up button for auxiliary heater operation



Auxiliary heater control unit, fresh air blower relay, auxiliary heater operation relay, fresh air blower, fresh air blower switch, air conditioning system control unit, fresh air blower series resistor with overheating fuse

E9	Fresh air blower switch
J13	Fresh air blower relay
J301	Air conditioning system control unit
J485	Auxiliary heater operation relay
N24	Fresh air blower series resistor with overheating fuse
SB35	Fuse 35 on fuse holder B
T2fm	2-pin connector, black
T4bp	4-pin connector
T5r	5-pin connector
T10f	10-pin connector, coupling point climatic box
T26a	26-pin connector, on E-box
V2	Fresh air blower
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
638	Earth point, on right A-pillar
639	Earth point, left A-pillar
B594	Connection 1, in Climatic wiring harness
B596	Connection 3, in Climatic wiring harness
*	Only models with second battery
**	Only models with no second battery

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Compass

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

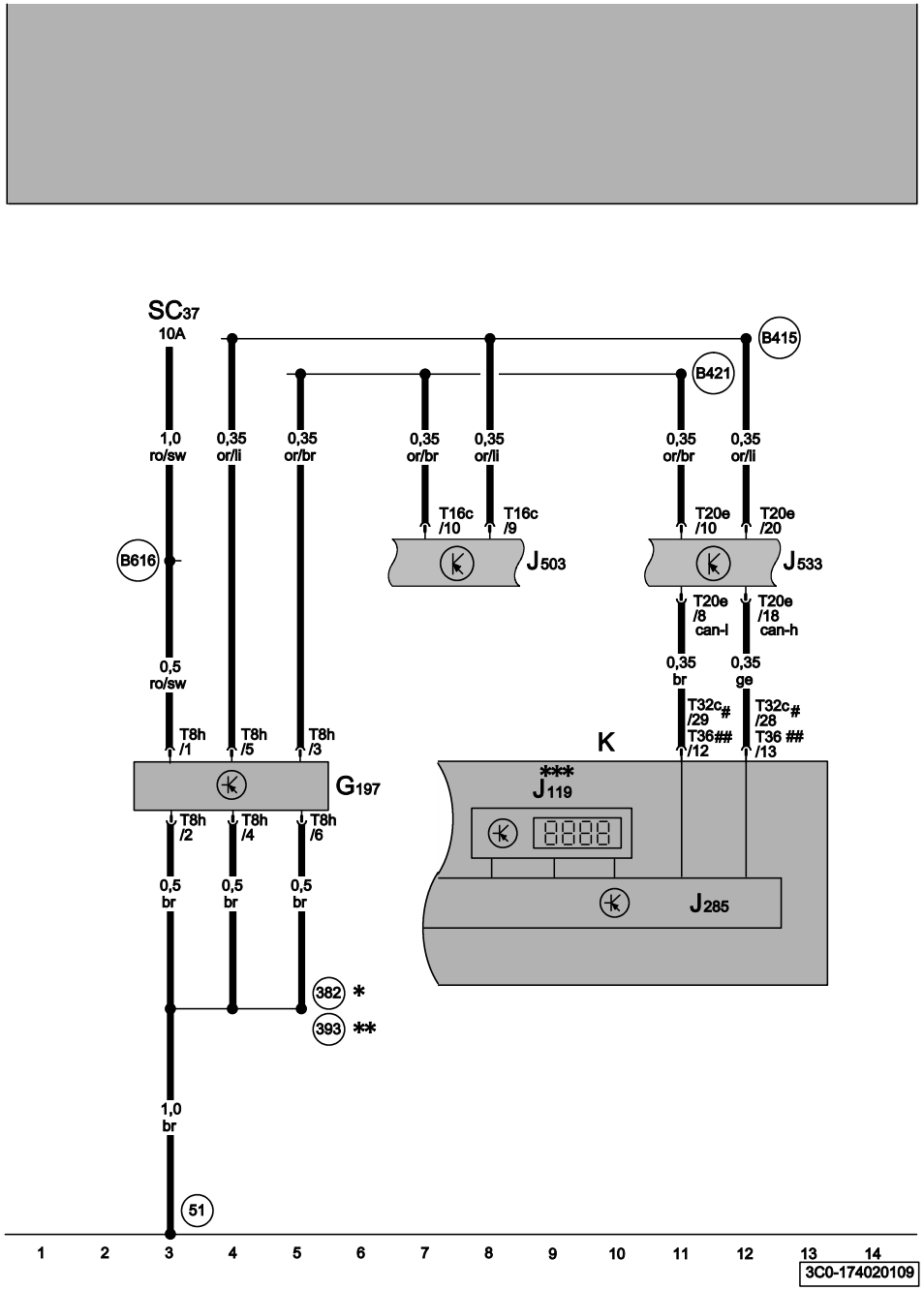
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Magnetic field sender for compass, data bus diagnostic interface, control unit in dash panel insert, multifunction display, control unit with display for radio and navigation system

G197	Magnetic field sender for compass
J119	Multifunction display
J285	Control unit in dash panel insert
J503	Control unit with display for radio and navigation
J533	Data bus diagnosis interface
K	Dash panel insert
SC37	Fuse 37 on fuse holder C
T8h	8-pin connector, black
T16c	16-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
51	Earth point, on right in luggage compartment
382	Earth connection 17, in main wiring harness
393	Earth connection 28, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
B616	Positive connection 12 (30a), in interior wiring harness
*	Only saloon models
**	Only Variant
***	Only models with multifunction display
#	Applicable from November 2008
##	Applicable up to October 2008

ws	=	white
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Second battery

⇒ **Only models with auxiliary coolant heater**

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

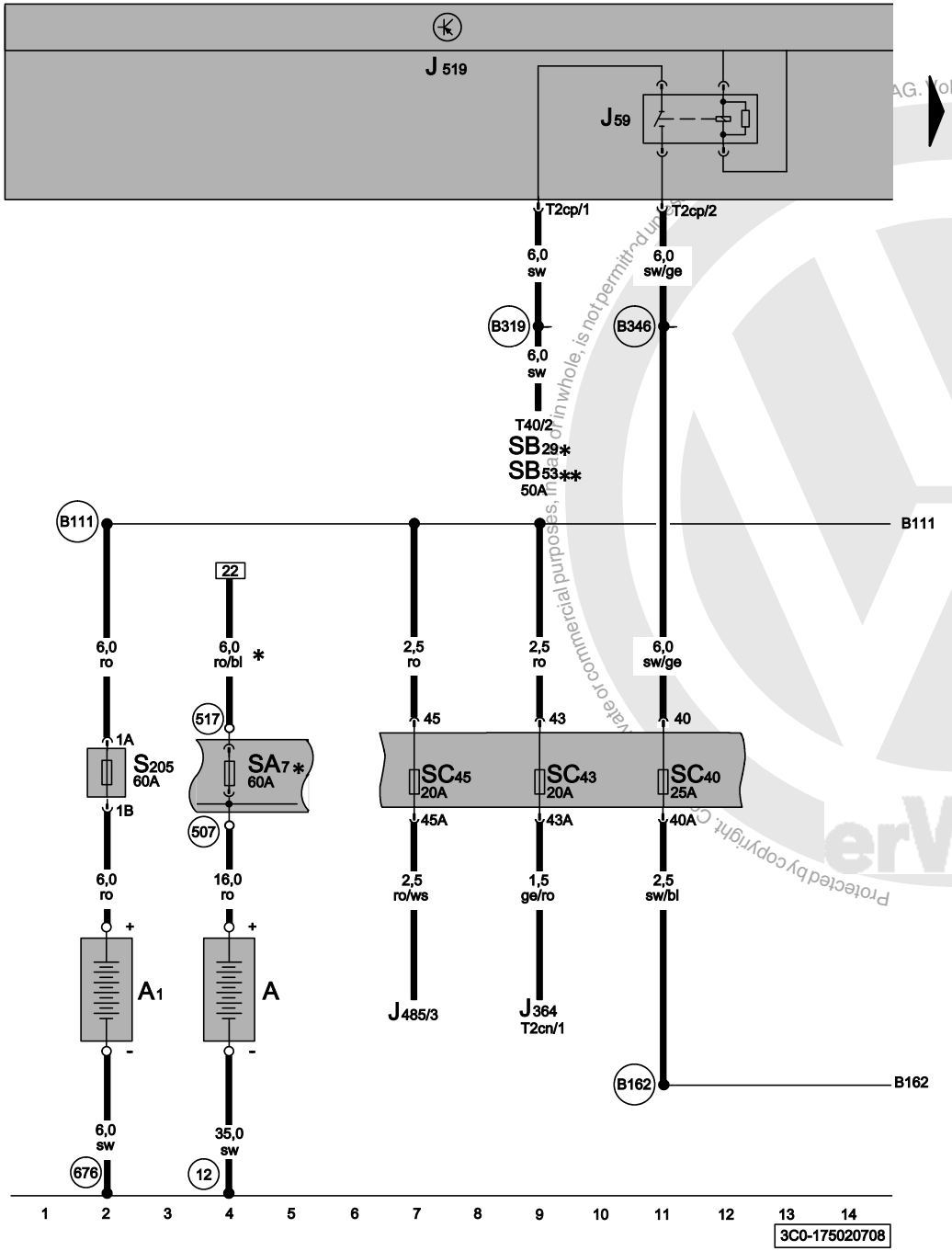
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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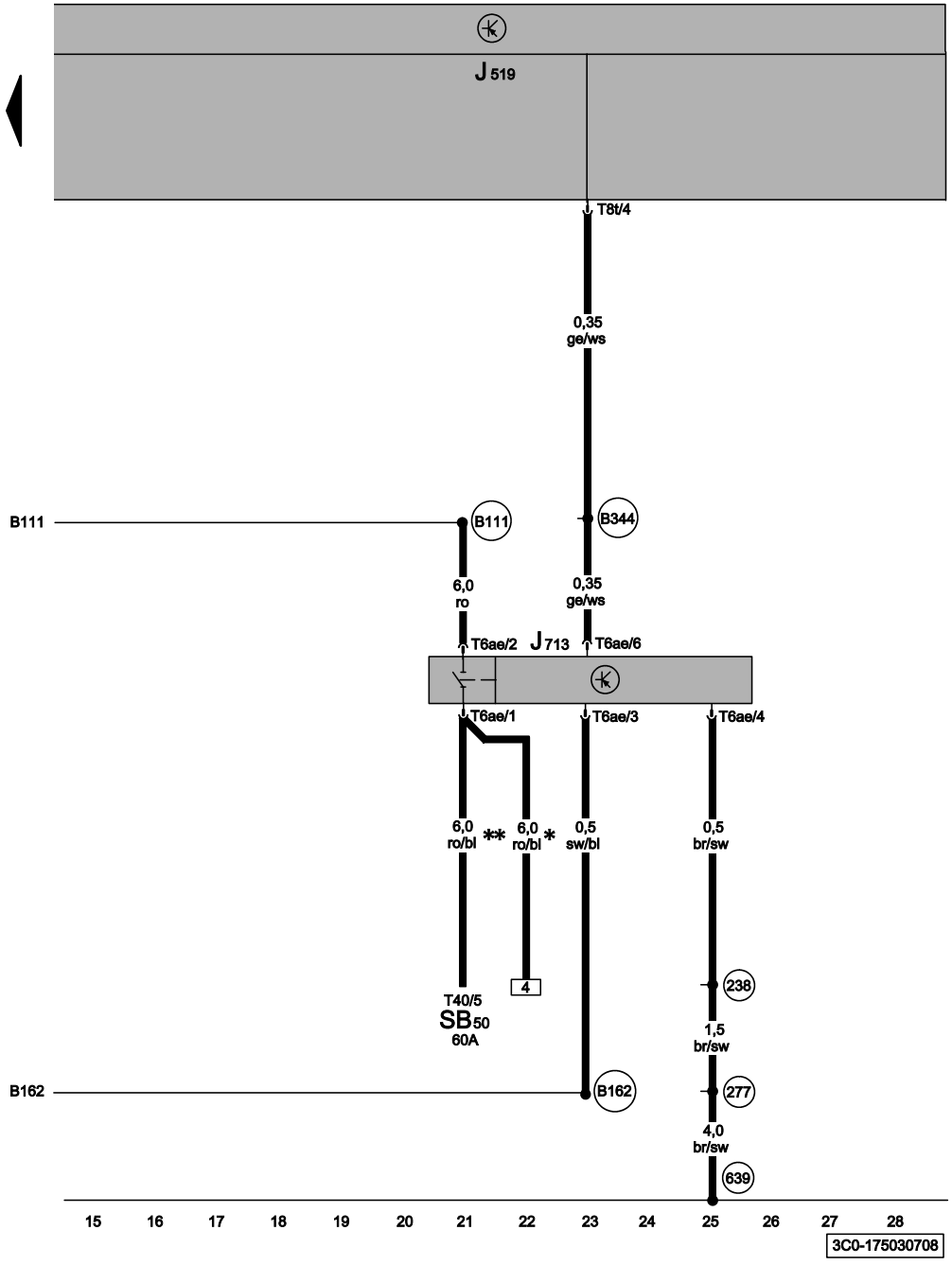


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Battery, second battery, auxiliary heater operation relay, auxiliary heater control unit, X-contact relief relay, fuses

A	Battery
A1	Second battery
J59	X-contact relief relay
J364	Auxiliary heater control unit
J485	Auxiliary heater operation relay
J519	Onboard supply control unit
S205	Fuse 2 (30), near second battery
SA7	Fuse 7 on fuse holder A
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC40	Fuse 40 on fuse holder C
SC43	Fuse 43 on fuse holder C
SC45	Fuse 45 on fuse holder C
T2cn	2-pin connector
T2cp	2-pin connector
T40	40-pin connector, on E-box
12	Earth point, on left in engine compartment
507	Threaded connection (30), on battery fuse holder
517	Threaded connection 7 (30a) on relay plate
676	Earth point 2, on left in luggage compartment
B111	Positive connection 1 (30a), in interior wiring harness
B162	Connection (75a), in interior wiring harness
B319	Connection 5 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high

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Second battery charging circuit relay

J519	Onboard supply control unit
J713	Second battery charging circuit relay
SB50	Fuse 50 on fuse holder B
T6ae	6-pin connector
T8t	8-pin connector
T40	40-pin connector
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
639	Earth point, left A-pillar
B111	Positive connection 1 (30a), in interior wiring harness
B162	Connection (75a), in interior wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high

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6-speed automatic gearbox 09G

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

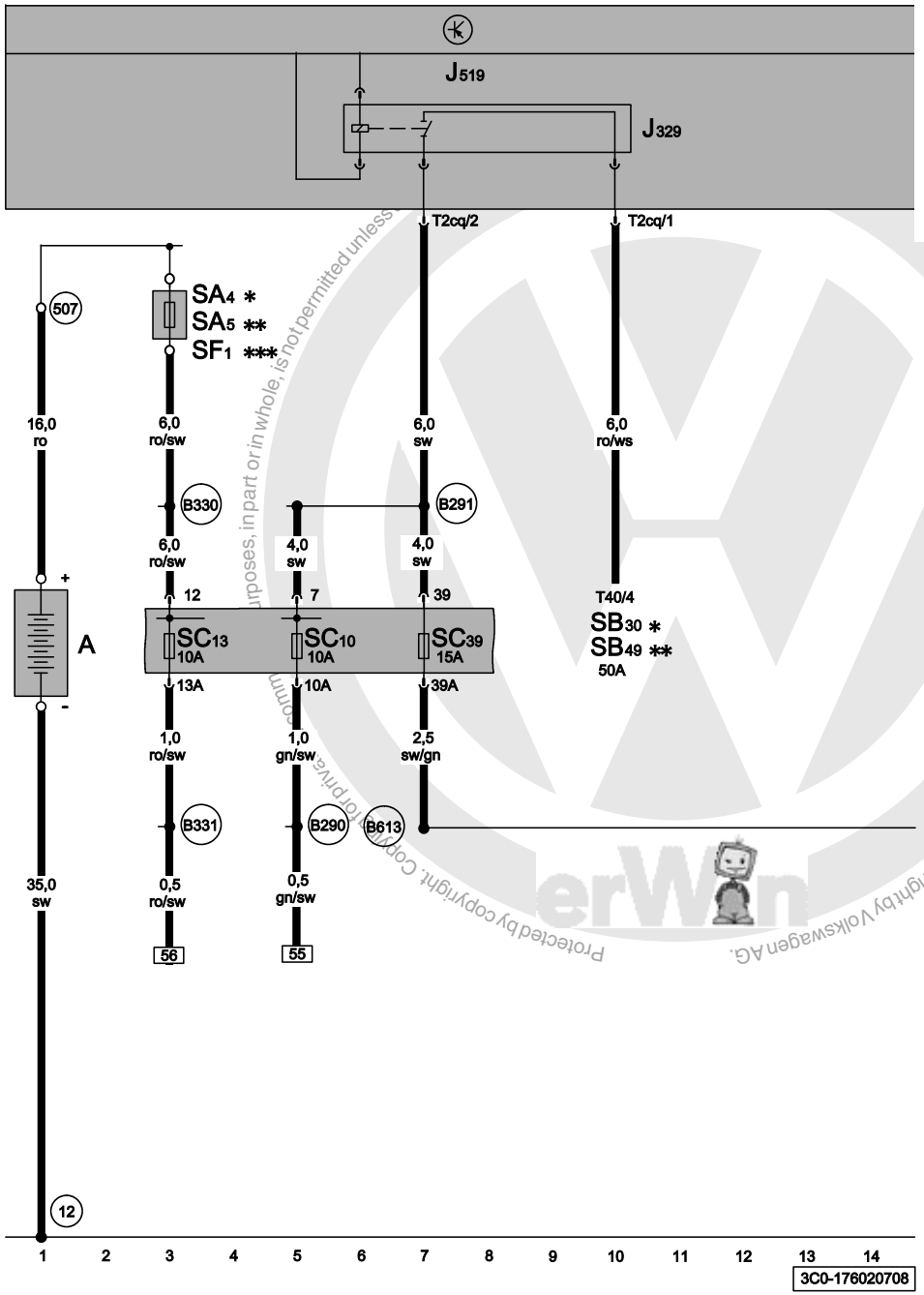
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

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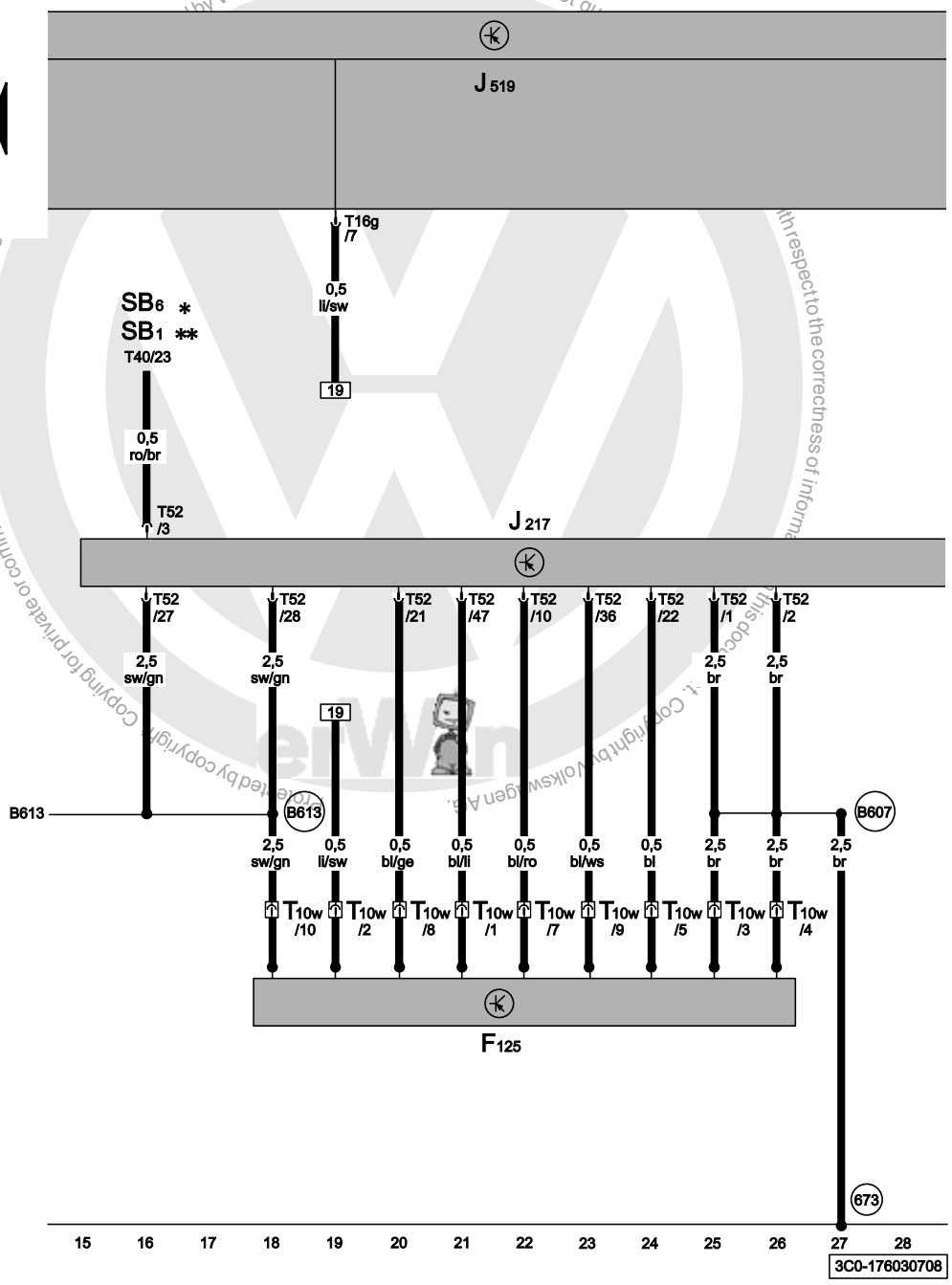


Battery, terminal 15 voltage supply relay 2, fuses

A	Battery
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SA4	Fuse 4 on fuse holder A
SA5	Fuse 4 on fuse holder A
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC10	Fuse 10 on fuse holder C
SC13	Fuse 13 on fuse holder C
SC39	Fuse 39 on fuse holder C
SF1	Fuse 1 on fuse holder F
T2cq	2-pin connector
T40	40-pin connector
12	Earth point, on left in engine compartment
507	Threaded connection (30), on battery fuse holder
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B331	Connection 17 (30a), in main wiring harness
B613	Connection 41, in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Only models with engine codes AXZ, BLV and BWS

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

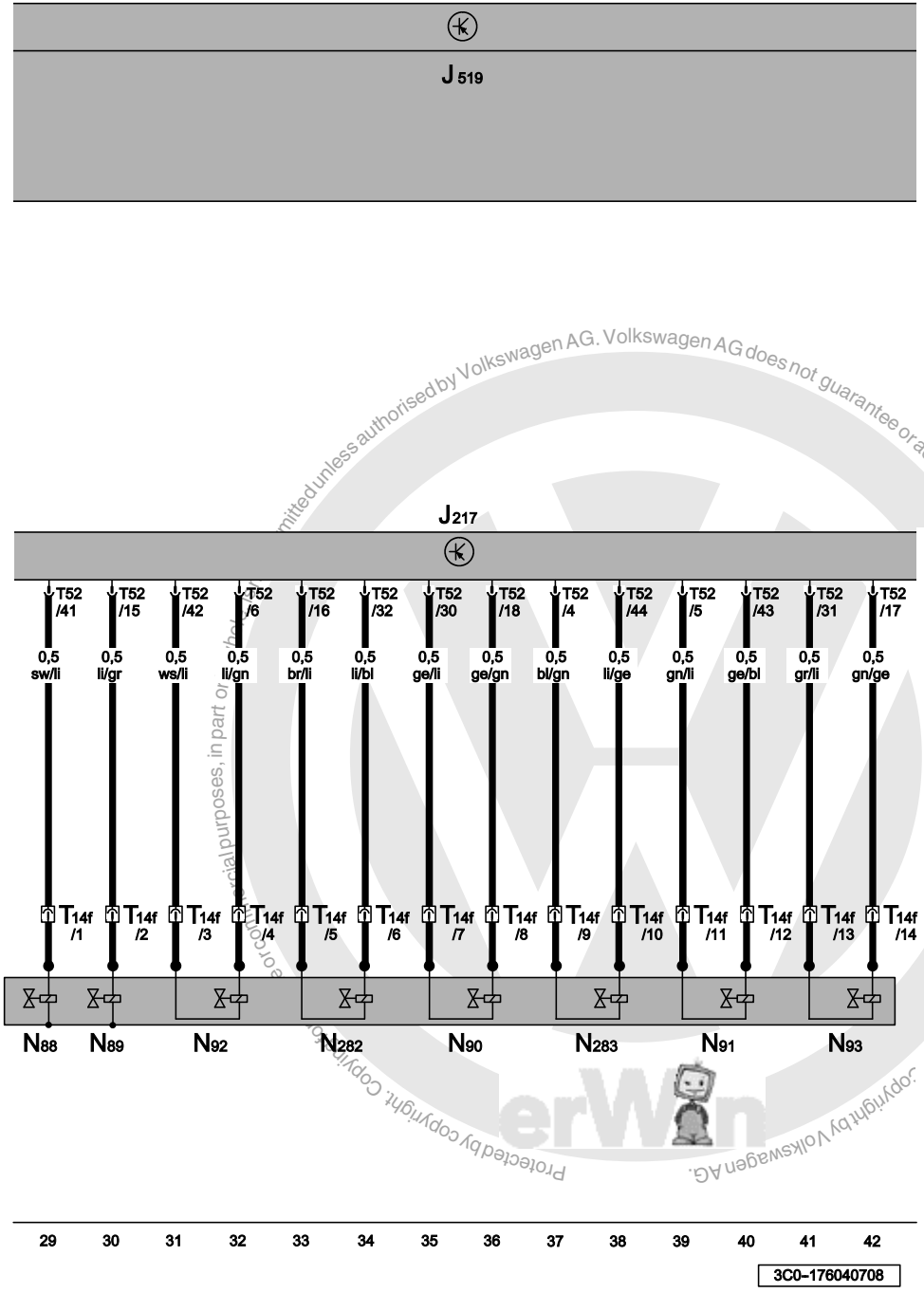
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Multifunction switch, automatic gearbox control unit

F125	Multifunction switch
J217	Automatic gearbox control unit
J519	Onboard supply control unit
SB1	Fuse 1 on fuse holder B
SB6	Fuse 6 on fuse holder B
T10w	10-pin connector, on gearbox
T16g	16-pin connector
T40	40-pin connector
T52	52-pin connector
673	Earth point 3, on front of left longitudinal member
B607	Connection 3, in interior wiring harness
B613	Connection 41, in main wiring harness
*	Only models with E-box low
**	Only models with E-box high

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gn	=	green
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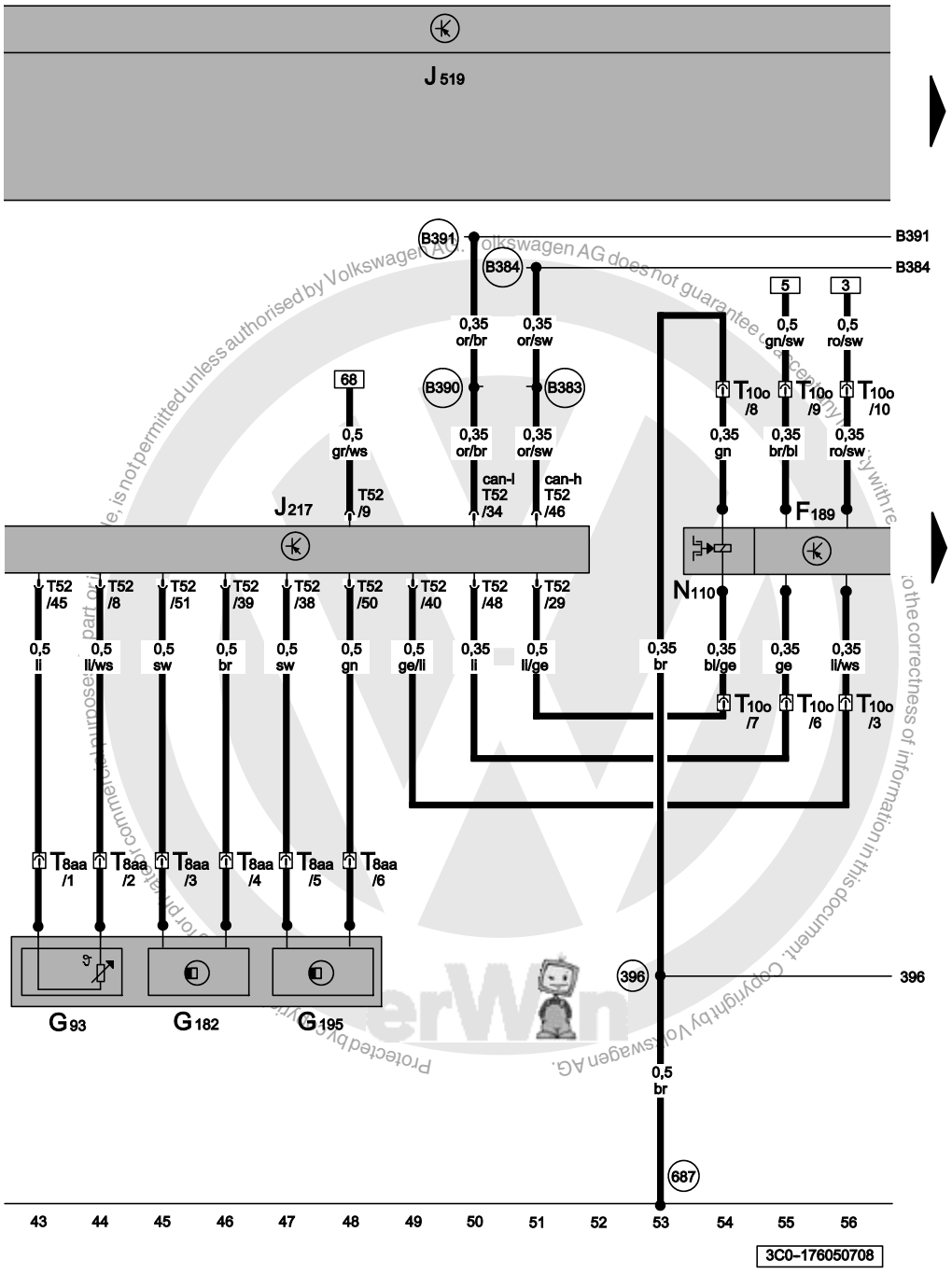


Automatic gearbox control unit, solenoid valves

J217	Automatic gearbox control unit
J519	Onboard supply control unit
N88	Solenoid valve 1
N89	Solenoid valve 2
N90	Solenoid valve 3
N91	Solenoid valve 4
N92	Solenoid valve 5
N93	Solenoid valve 6
N282	Solenoid valve 9
N283	Solenoid valve 10
T14f	14-pin connector, on gearbox
T52	52-pin connector

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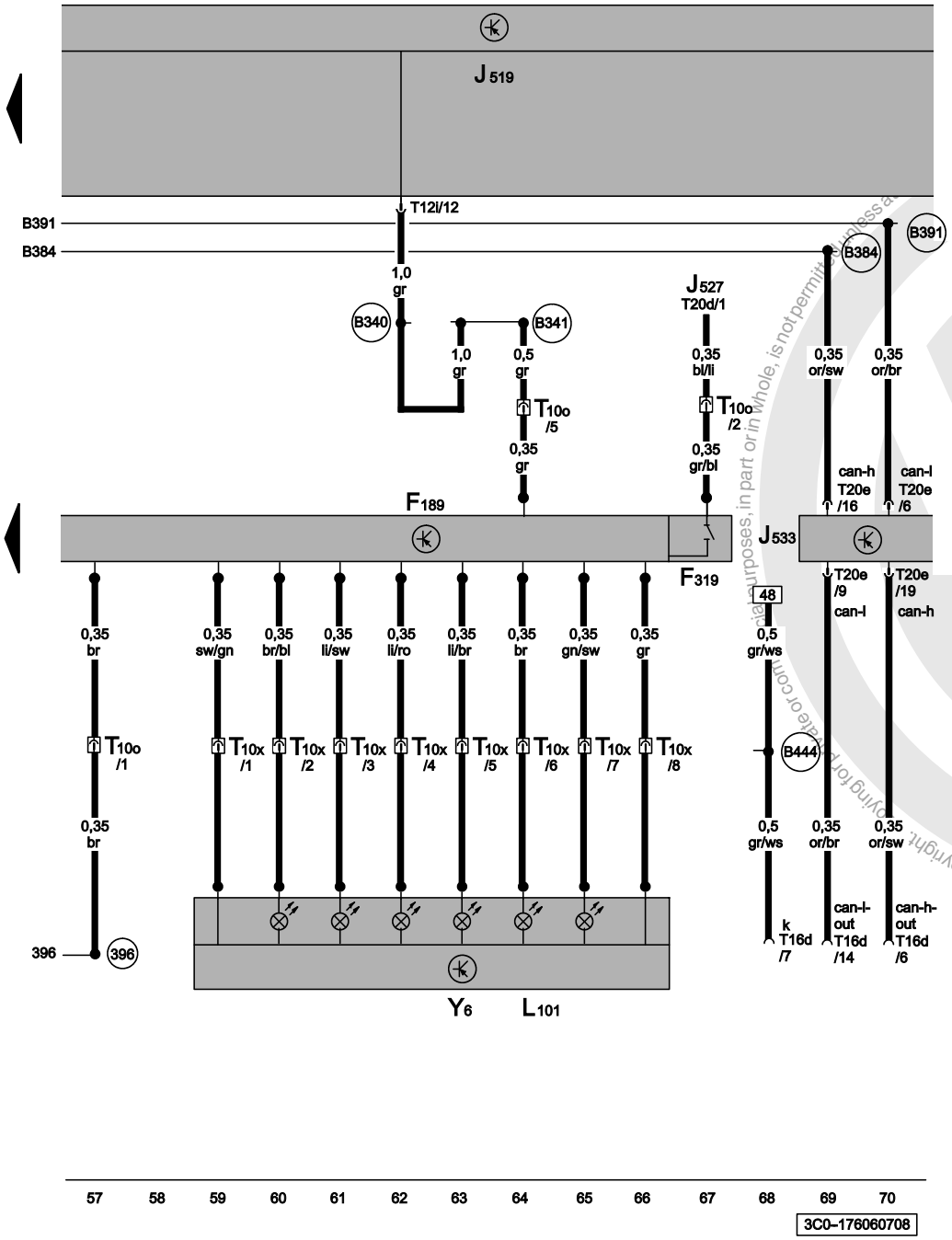


Tiptronic switch, gearbox oil temperature sender, gearbox input speed sender, gearbox output speed sender, selector lever lock solenoid

F189	Tiptronic switch
G93	Gearbox oil temperature sender
G182	Gearbox input speed sender
G195	Gearbox output speed sender
J217	Automatic gearbox control unit
J519	Onboard supply control unit
N110	Selector lever lock solenoid
T8aa	8-pin connector, coupling point for gearbox prewiring
T10o	10-pin connector, on gearbox
T52	52-pin connector
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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gr	=	grey
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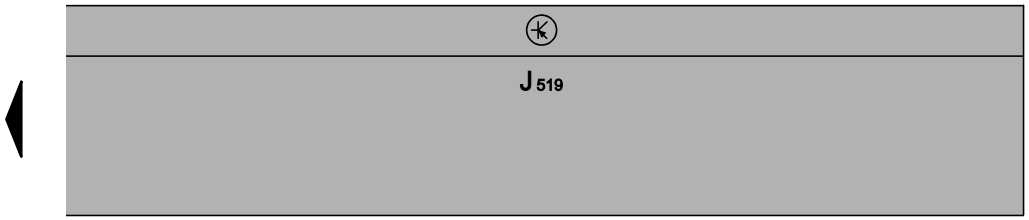


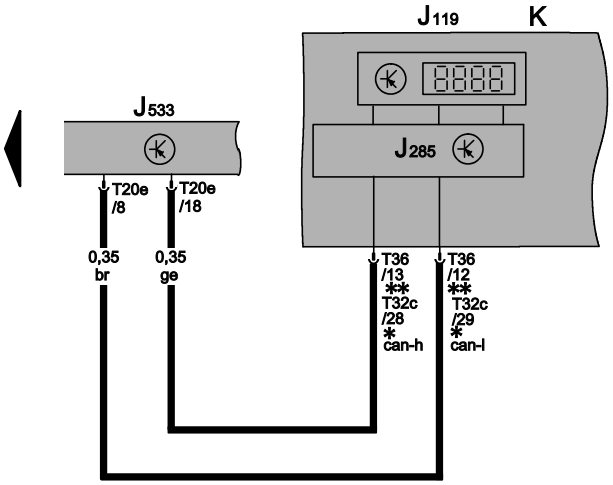
Tiptronic switch, selector lever locked in position P switch, data bus diagnostic interface, selector lever lock solenoid, selector lever position display

F189	Tiptronic switch
F319	Selector lever locked in position P switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
L101	Selector lever display illumination bulb
T10o	10-pin connector, on gearbox
T10x	10-pin connector, near selector lever
T12i	12-pin connector
T16d	16-pin connector, self-diagnosis connection
T20d	20-pin connector
T20e	20-pin connector
Y6	Selector lever position display
396	Earth connection 31, in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

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Multifunction display, dash panel insert, data bus diagnostic interface

J119	Multifunction display
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J533	Data bus diagnosis interface
K	Dash panel insert
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
*	Applicable from November 2008
**	Applicable up to October 2008

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Parking aid (PDC)

⇒ **Optical parking system**

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

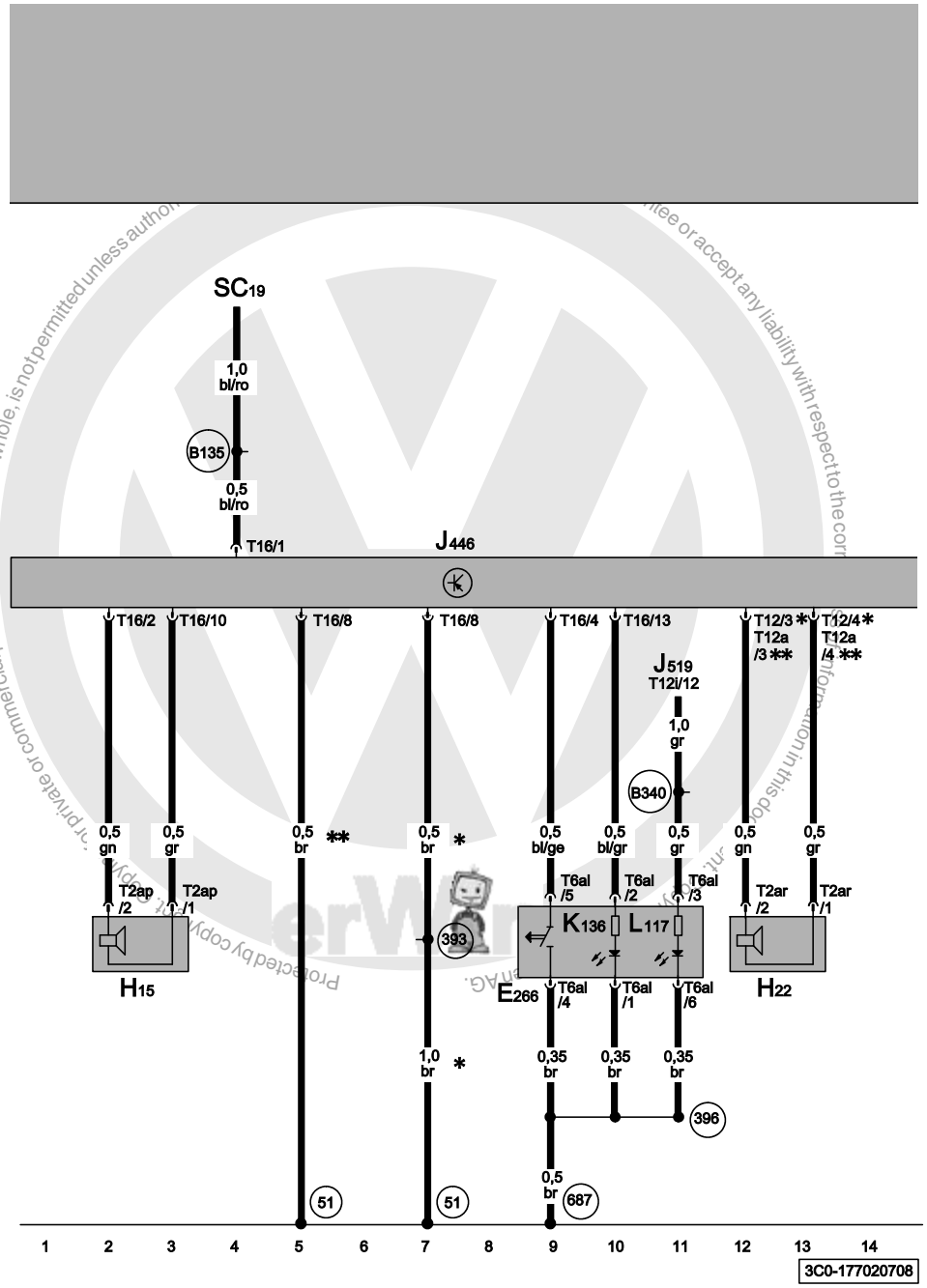
For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Parking aid button, parking aid warning buzzer, parking aid control unit



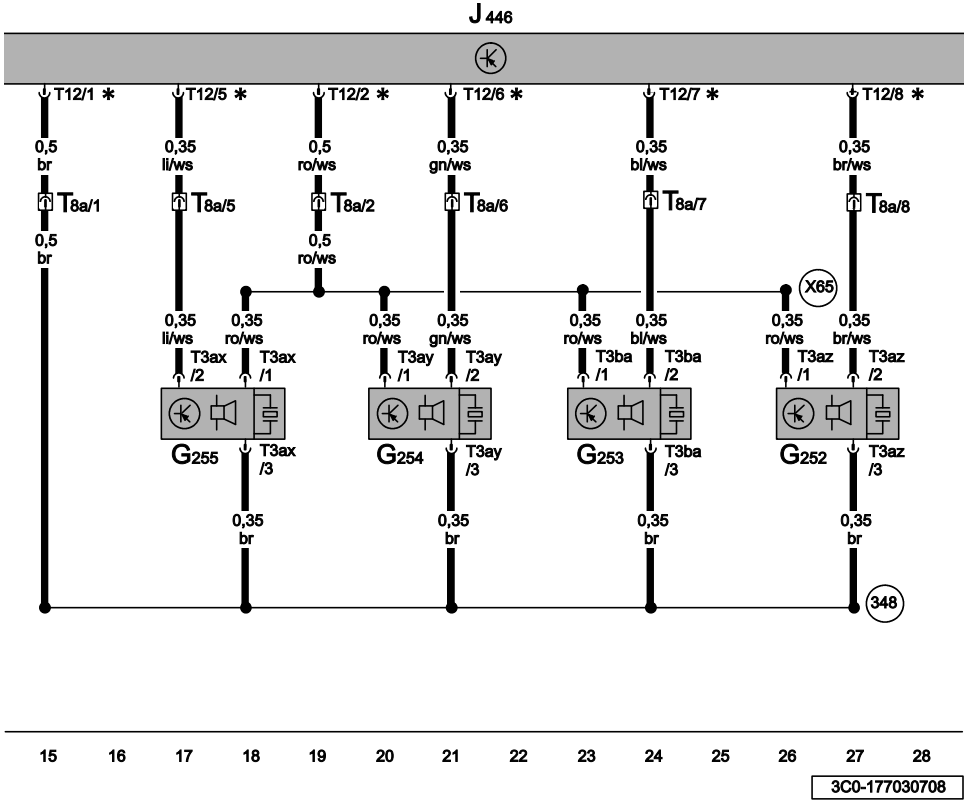
E266	Parking aid button
H15	Rear parking aid warning buzzer
H22	Front parking aid warning buzzer
J446	Parking aid control unit
J519	Onboard supply control unit
K136	Parking aid warning lamp
L117	Parking aid switch illumination bulb
SC19	Fuse 19 on fuse holder C
T2ap	2-pin connector, black
T2ar	2-pin connector, black
T6al	6-pin connector
T12	12-pin connector, black
T12a	12-pin connector, brown
T12i	12-pin connector, black
T16	16-pin connector, brown
51	Earth point, on right in luggage compartment
393	Earth connection 28, in main wiring harness
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B135	Connection 1 (15a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
*	Only Variant
**	Only saloon models

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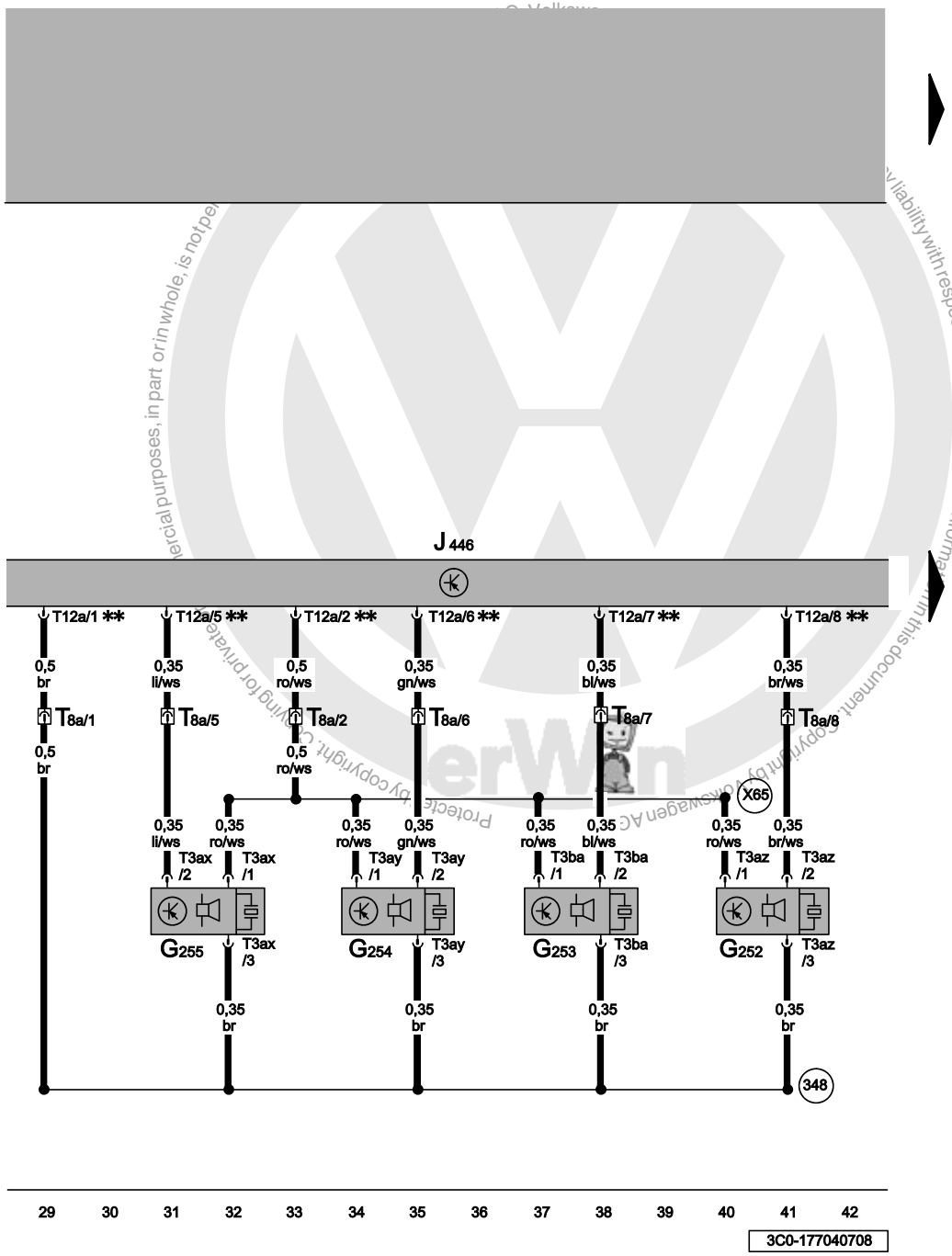
Parking aid control unit, front parking aid sender, Variant

G252	Front right parking aid sender
G253	Front centre right parking aid sender
G254	Front centre left parking aid sender
G255	Front left parking aid sender
J446	Parking aid control unit
T3ax	3-pin connector
T3ay	3-pin connector
T3az	3-pin connector
T3ba	3-pin connector
T8a	8-pin connector, black, on front left longitudinal member
T12	12-pin connector, black
(348)	Earth connection (parking aid), in front bumper wiring harness
(X65)	Connection (parking aid), in front bumper wiring harness
*	Only Variant



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Parking aid control unit, front parking aid sender, saloon

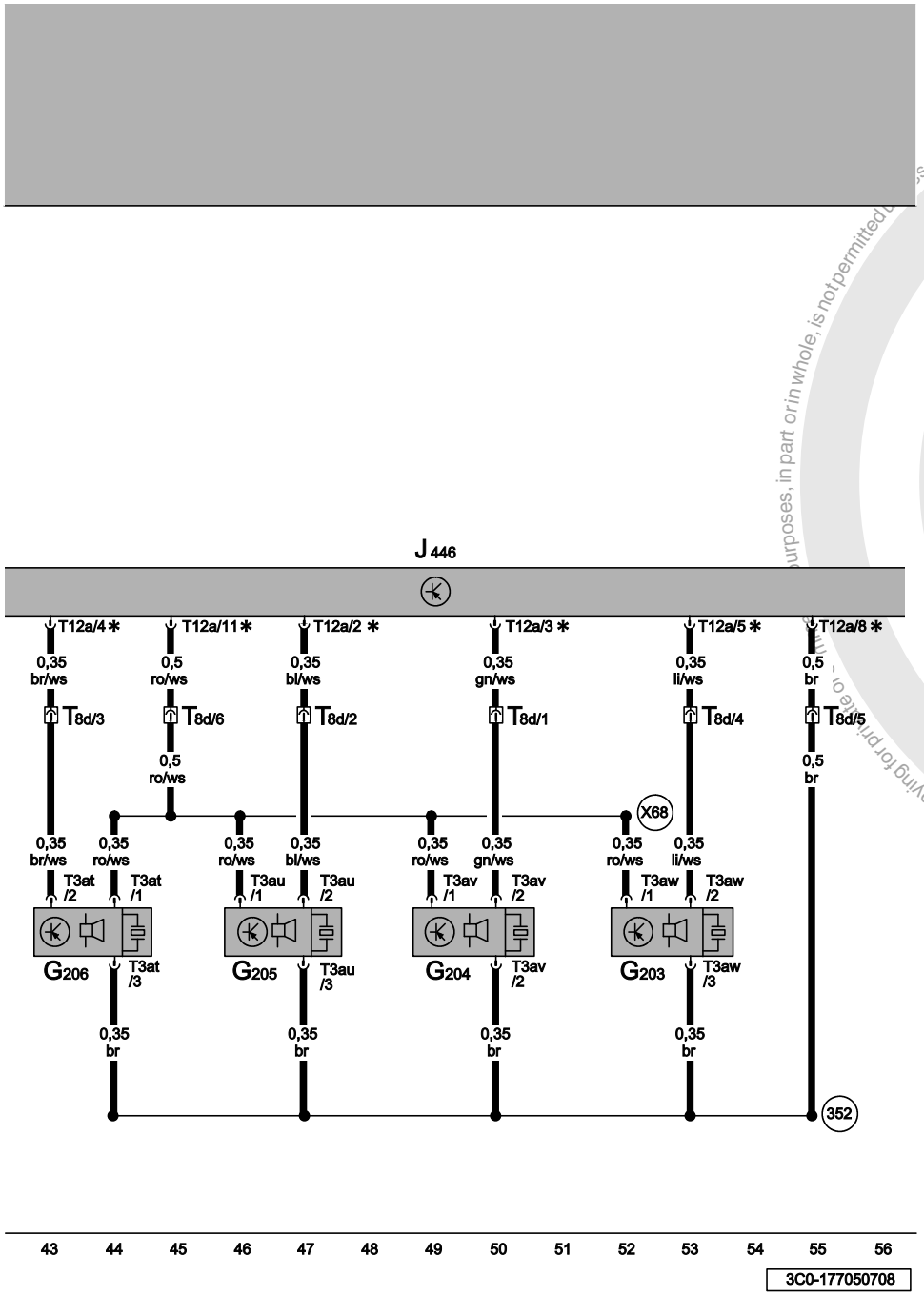
G252	Front right parking aid sender
G253	Front centre right parking aid sender
G254	Front centre left parking aid sender
G255	Front left parking aid sender
J446	Parking aid control unit
T3ax	3-pin connector
T3ay	3-pin connector
T3az	3-pin connector
T3ba	3-pin connector
T8a	8-pin connector, black, on front left longitudinal member
T12a	12-pin connector, brown
348	Earth connection (parking aid), in front bumper wiring harness
X65	Connection (parking aid), in front bumper wiring harness
**	Only saloon models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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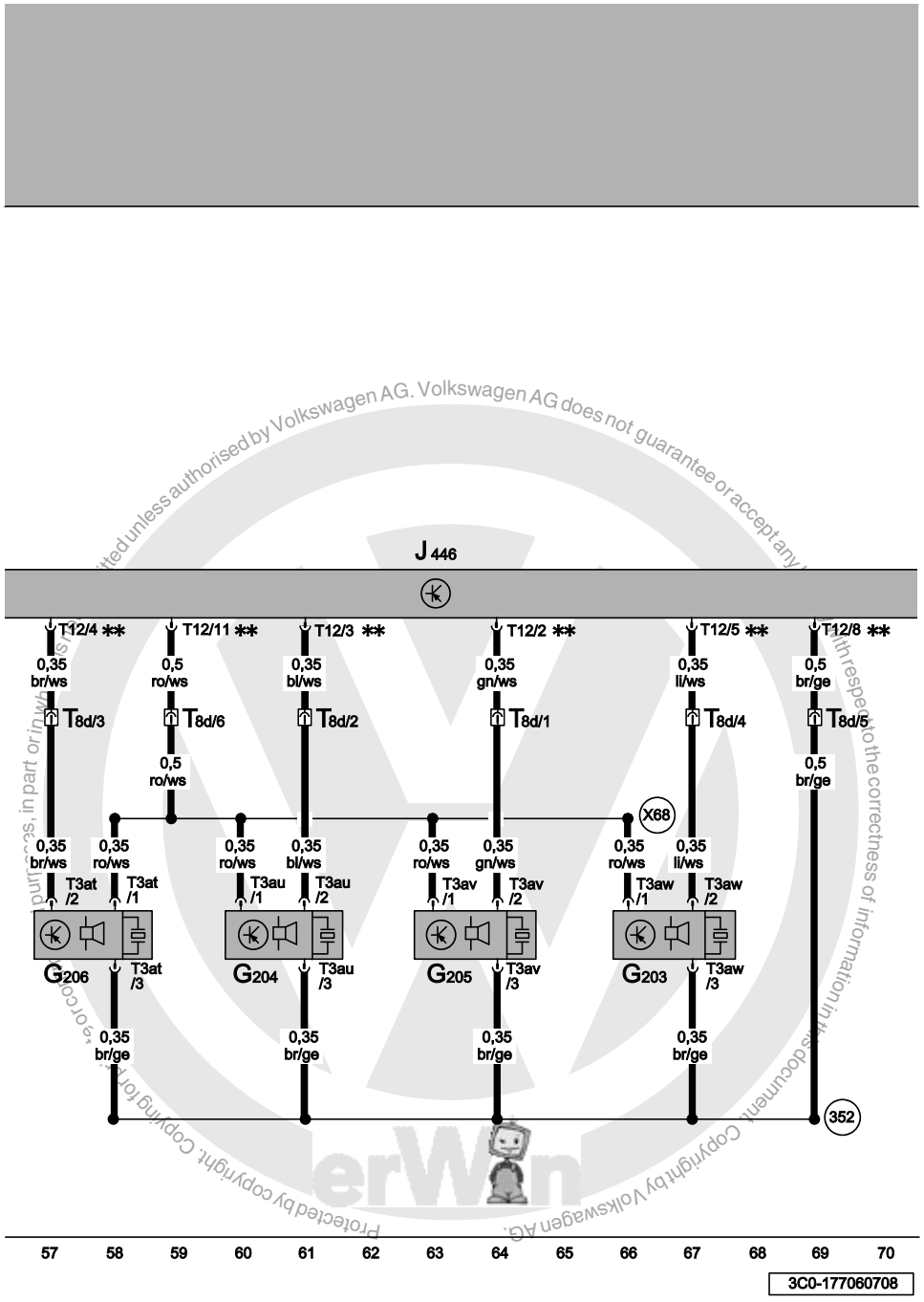
Parking aid control unit, rear parking aid sender, Variant

G203	Rear left parking aid sender
G204	Rear centre left parking aid sender
G205	Rear centre right parking aid sender
G206	Rear right parking aid sender
J446	Parking aid control unit
T3at	3-pin connector
T3au	3-pin connector
T3av	3-pin connector
T3aw	3-pin connector
T8d	8-pin connector, black, on right of rear bumper
T12a	12-pin connector, brown
352	Earth connection (parking aid), in rear bumper wiring harness
X68	Positive connection (parking aid), in rear bumper wiring harness
*	Only Variant



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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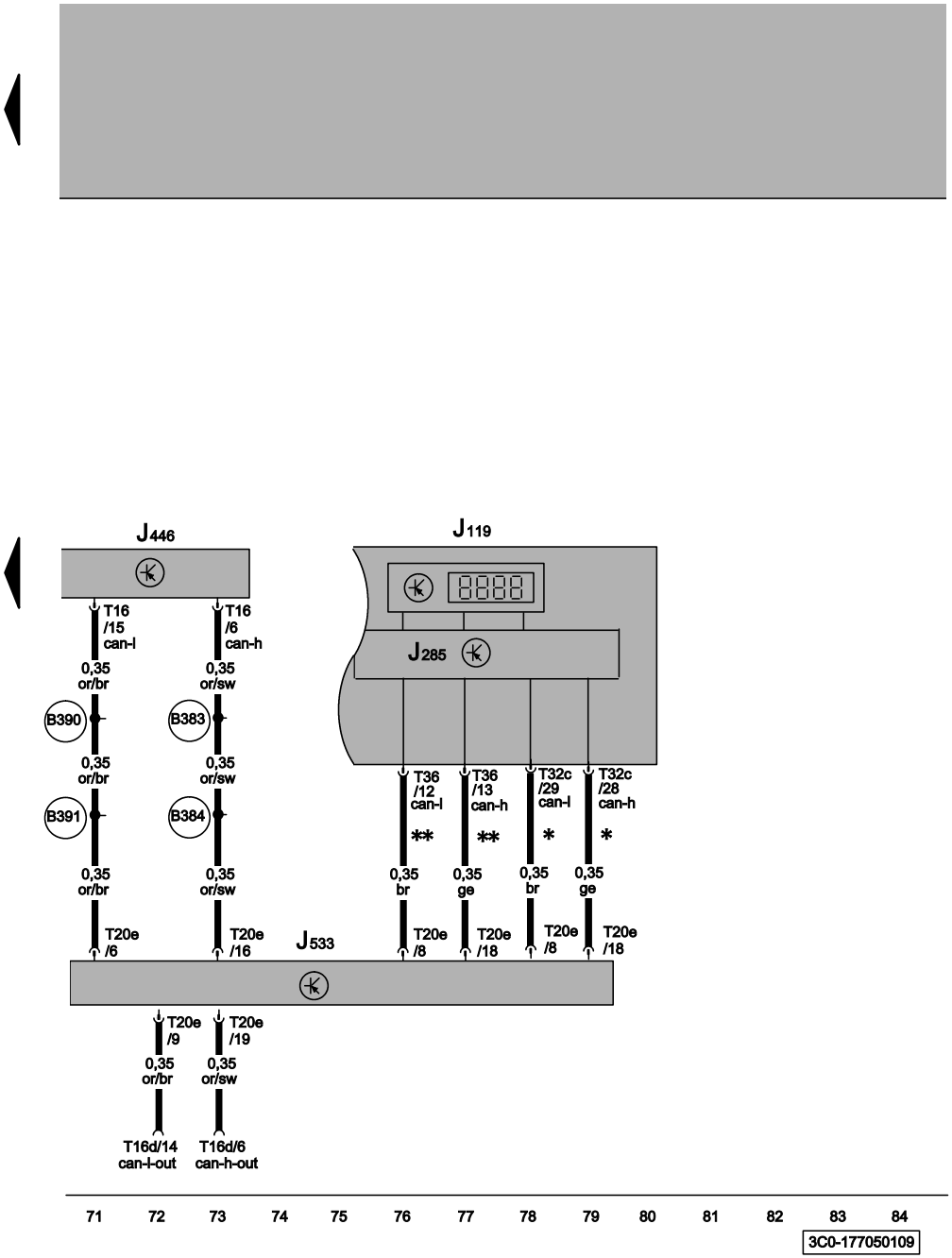


Parking aid control unit, rear parking aid sender, saloon

G203	Rear left parking aid sender
G204	Rear centre left parking aid sender
G205	Rear centre right parking aid sender
G206	Rear right parking aid sender
J446	Parking aid control unit
T3at	3-pin connector
T3au	3-pin connector
T3av	3-pin connector
T3aw	3-pin connector
T8d	8-pin connector, black, on right of rear bumper
T12	12-pin connector, black
(352)	Earth connection (parking aid), in rear bumper wiring harness
(X68)	Positive connection (parking aid), in rear bumper wiring harness
**	Only saloon models

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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Parking aid control unit, dash panel insert, multifunction display, data bus diagnosis interface, self-diagnosis connection

J119	Multifunction display
J285	Control unit in dash panel insert
J446	Parking aid control unit
J533	Data bus diagnosis interface
T16	16-pin connector, brown
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Fuse concept, 1 battery

⇒ **Fuses SC, in dash panel on driver side**

⇒ **Fuses SD, in dash panel on front passenger side**

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

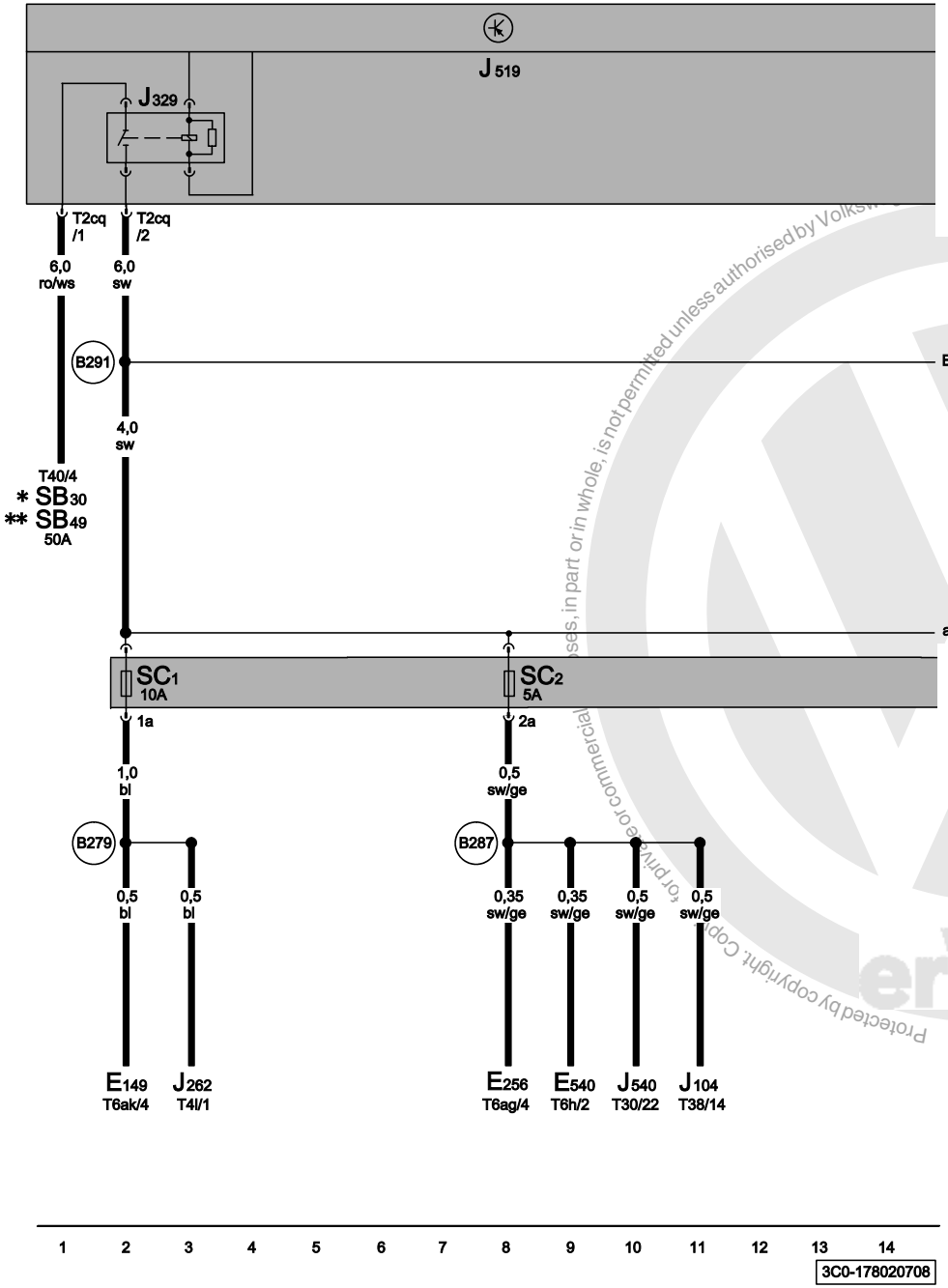
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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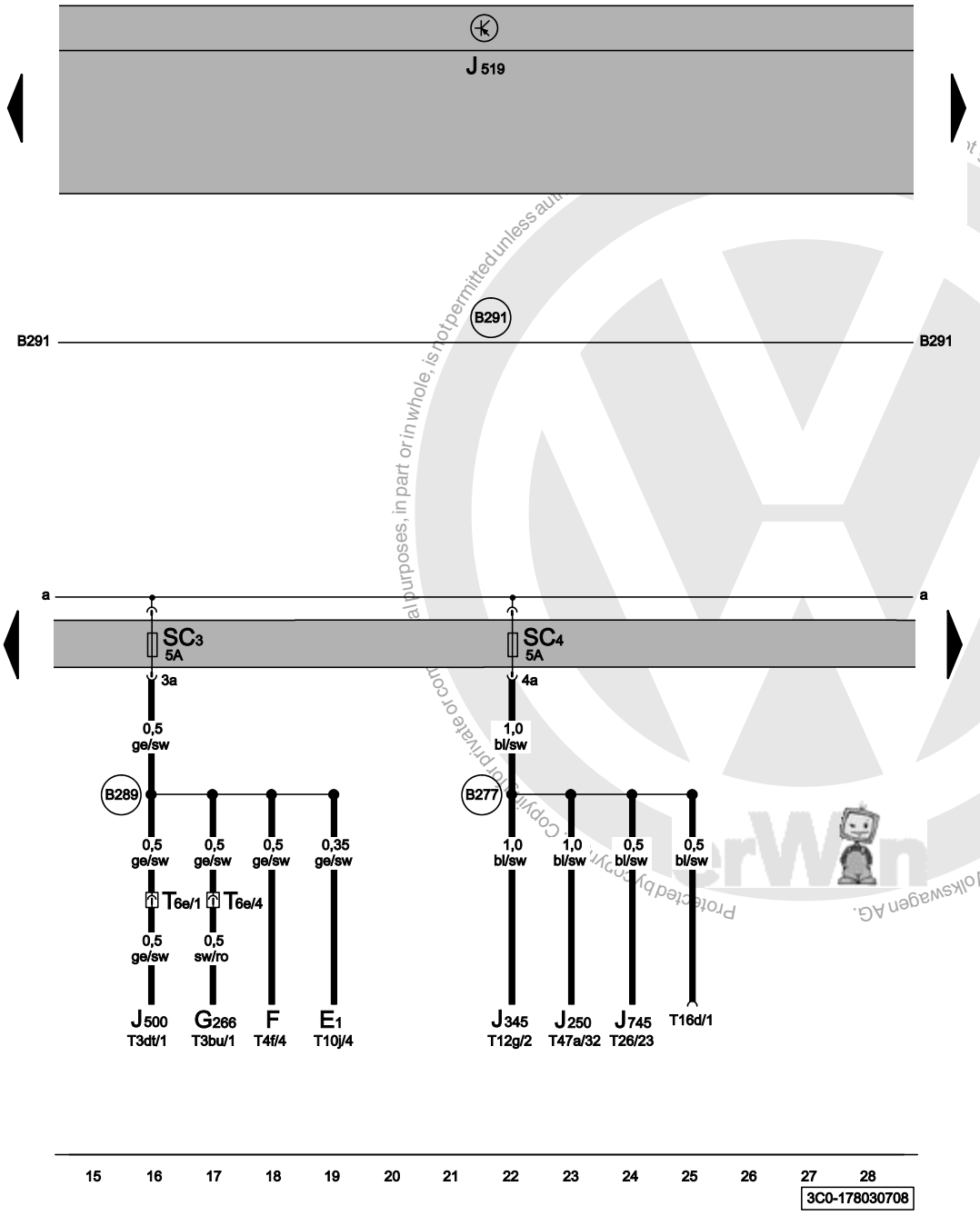


SC fuses, SC1, SC2

E149	Rear roller blind switch
E256	TCS and ESP button
E540	Auto-hold button
J104	ABS control unit
J262	Rear roller blind control unit
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC1	Fuse 1 on fuse holder C
SC2	Fuse 2 on fuse holder C
T2cq	2-pin connector, black
T4l	4-pin connector
T6ag	6-pin connector
T6ak	6-pin connector
T6h	6-pin connector
T30	30-pin connector
T38	38-pin connector
T40	40-pin connector
B279	Connection 3 (15a), in main wiring harness
B287	Connection 11 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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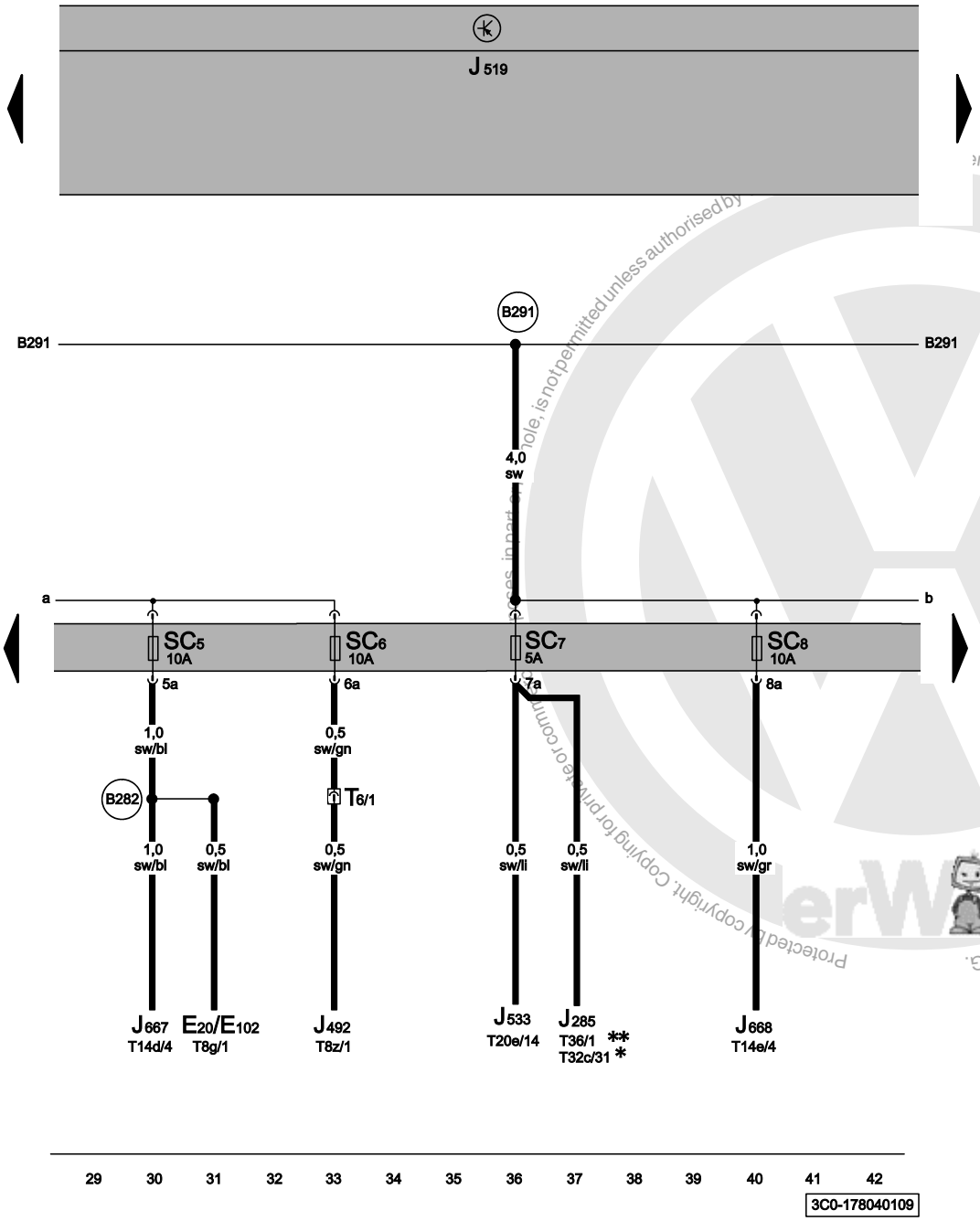


SC fuses, SC3, SC4

E1	Light switch
F	Brake light switch
G266	Oil level and oil temperature sender
J250	Electronically controlled damping control unit
J345	Trailer detector control unit
J500	Power steering control unit
J519	Onboard supply control unit
J745	Control unit for cornering light and headlight range control
SC3	Fuse 3 on fuse holder C
SC4	Fuse 4 on fuse holder C
T3bu	3-pin connector
T3dt	3-pin connector
T4f	4-pin connector
T6e	6-pin connector, coupling point for electric steering in engine compartment
T10j	10-pin connector, black
T12g	12-pin connector, red
T16d	16-pin connector, self-diagnosis connection
T26	26-pin connector
T47a	47-pin connector
B277	Connection 1 (15a), in main wiring harness
B289	Connection 13 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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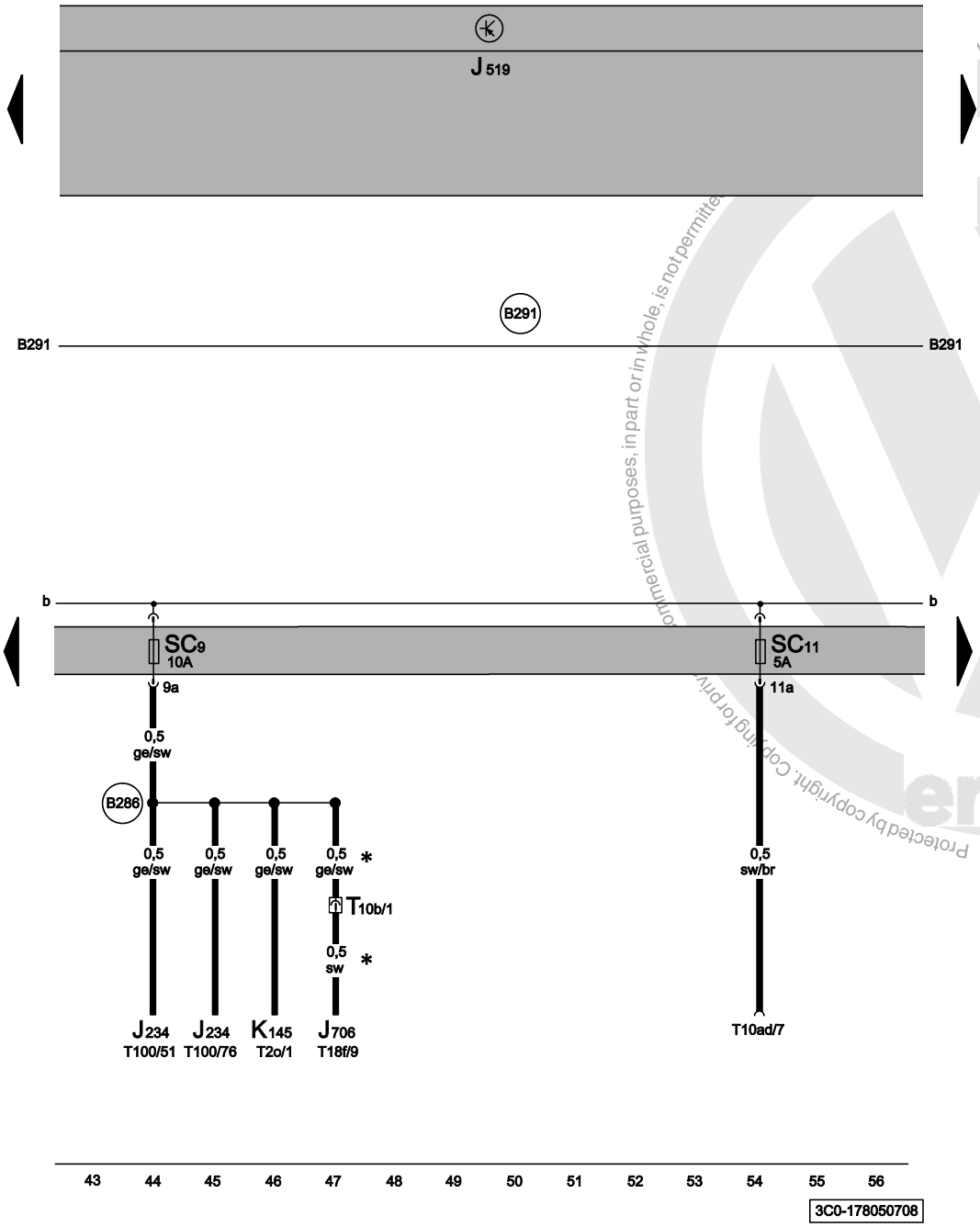


SC fuses, SC5, SC6, SC7, SC8

E20	Switch and instrument illumination regulator
E102	Headlight range control regulator
J285	Control unit in dash panel insert
J492	All-wheel drive control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J667	Power output module for left headlight
J668	Power output module for right headlight
SC5	Fuse 5 on fuse holder C
SC6	Fuse 6 on fuse holder C
SC7	Fuse 7 on fuse holder C
SC8	Fuse 8 on fuse holder C
T6	6-pin connector, black, coupling point for Haldex coupling
T8g	8-pin connector
T8z	8-pin connector
T14d	14-pin connector
T14e	14-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
B282	Connection 6 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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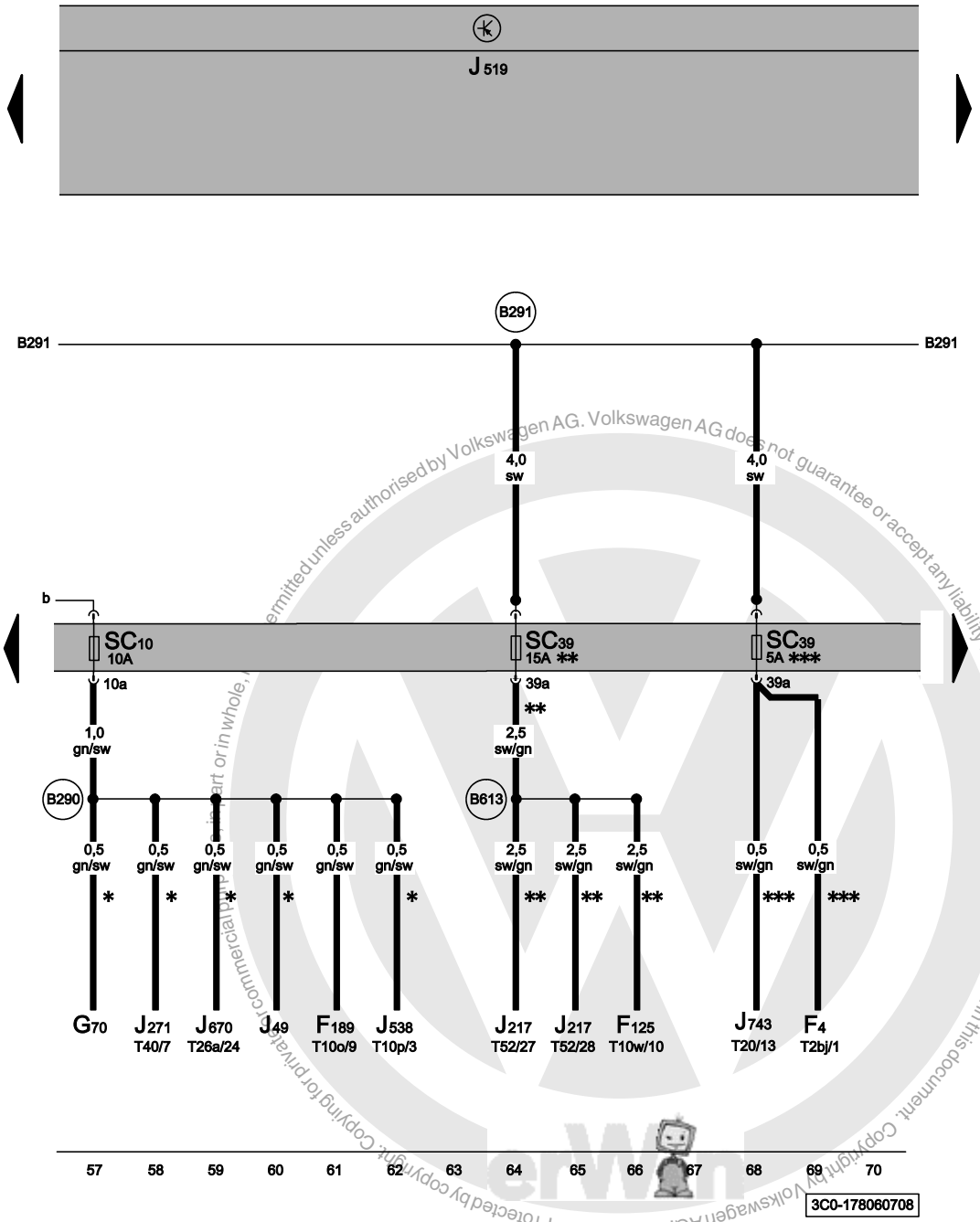


SC fuses, SC9, SC11

J234	Airbag control unit
J519	Onboard supply control unit
J706	Seat occupied recognition control unit
K145	Front airbag deactivated on front passenger side warning lamp
SC9	Fuse 9 on fuse holder C
SC11	Fuse 11 on fuse holder C
T2o	2-pin connector
T10b	10-pin connector, black, coupling point front passenger side, under seat
T10ad	10-pin connector, coupling point for special vehicles
T18f	18-pin connector
T100	100-pin connector
B286	Connection 10 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
*	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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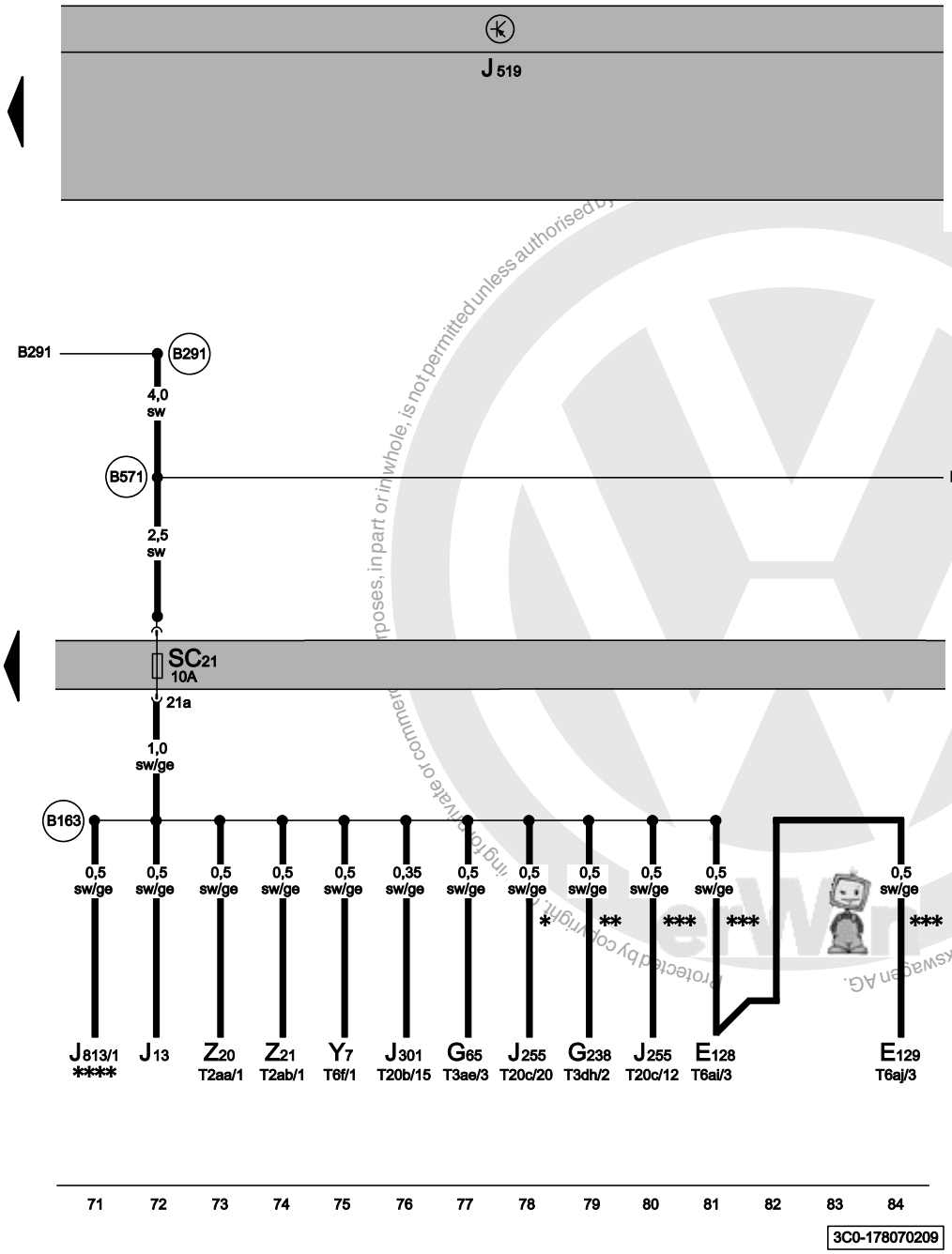


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SC fuses, SC10, SC39

F4	Reversing light switch
F125	Multifunction switch
F189	Tiptronic switch
G70	Air mass meter
J49	Electric fuel pump 2 relay
J217	Automatic gearbox control unit
J271	Motronic current supply relay
J519	Onboard supply control unit
J538	Fuel pump control unit
J670	Motronic current supply relay 2
J743	Mechatronic unit for dual clutch gearbox
SC10	Fuse 10 on fuse holder C
SC39	Fuse 39 on fuse holder C
T2bj	2-pin connector
T10o	10-pin connector, on gearbox
T10p	10-pin connector
T10w	10-pin connector, on gearbox
T20	20-pin connector
T26a	26-pin connector, on E-box
T40	40-pin connector, on E-box
T52	52-pin connector
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B613	Connection 41, in main wiring harness
*	⇒ CFD for engine
**	Only models with automatic gearbox
***	Only models with dual clutch gearbox

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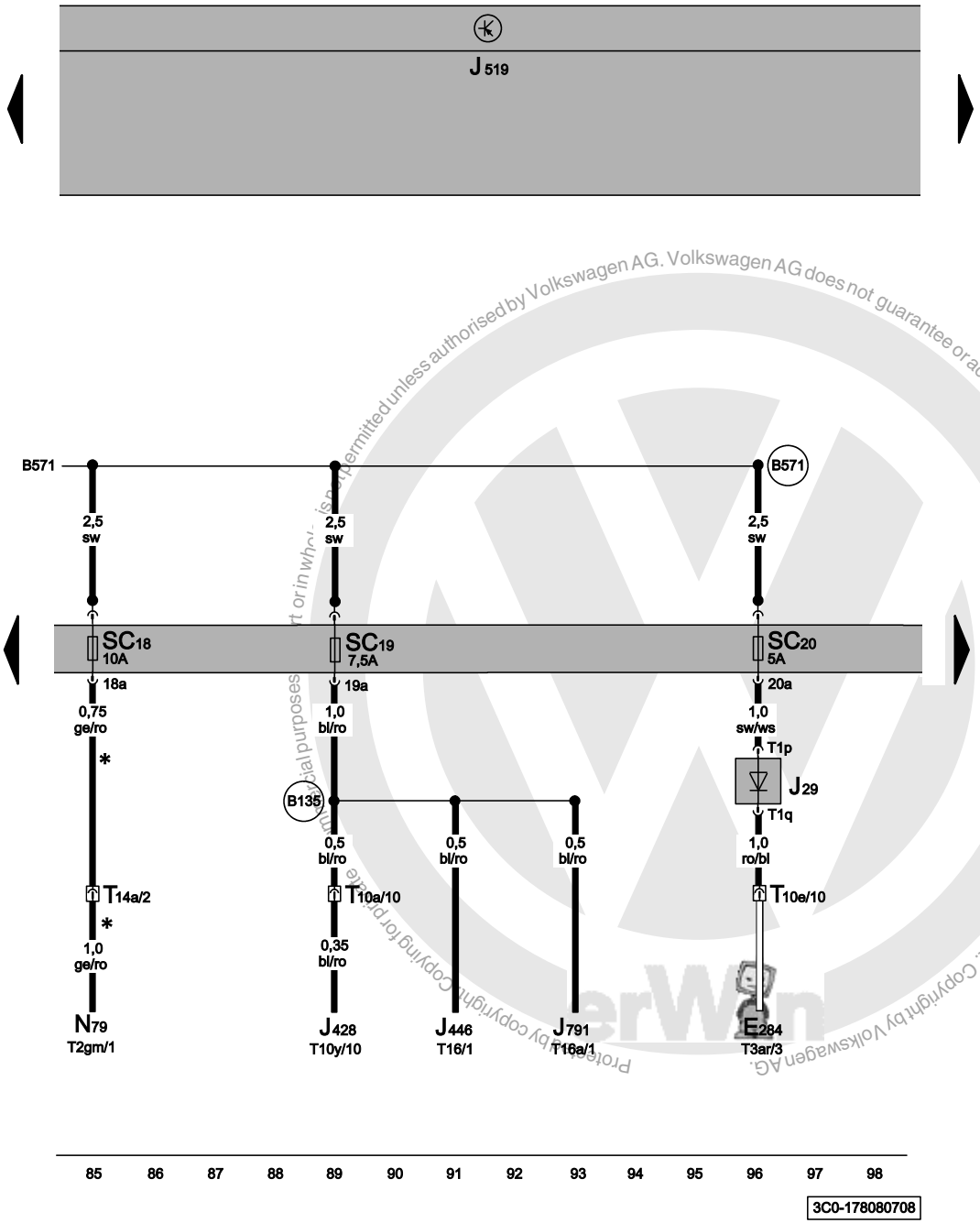


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
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rs = pink

SC fuses, SC21

E128	Heated rear left seat switch with regulator
E129	Heated rear right seat switch with regulator
G65	High-pressure sender
G238	Air quality sensor
J13	Fresh air blower relay
J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
J813	Voltage monitoring relay
SC21	Fuse 21 on fuse holder C
T2aa	2-pin connector
T2ab	2-pin connector
T3ae	3-pin connector
T3dh	3-pin connector, grey
T6ai	6-pin connector
T6aj	6-pin connector
T6f	6-pin connector
T20b	20-pin connector, on air conditioning system control unit
T20c	20-pin connector, on Climatronic control unit
Y7	Automatic anti-dazzle interior mirror
Z20	Left washer jet heater element
Z21	Right washer jet heater element
B163	Positive connection 1 (15), in interior wiring harness
B291	Connection 15 (15a), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models with no auxiliary heater
**	Only American markets
***	Only models with heated seat
****	Only models with multimedia system RSE (Rear Seat Entertainment)

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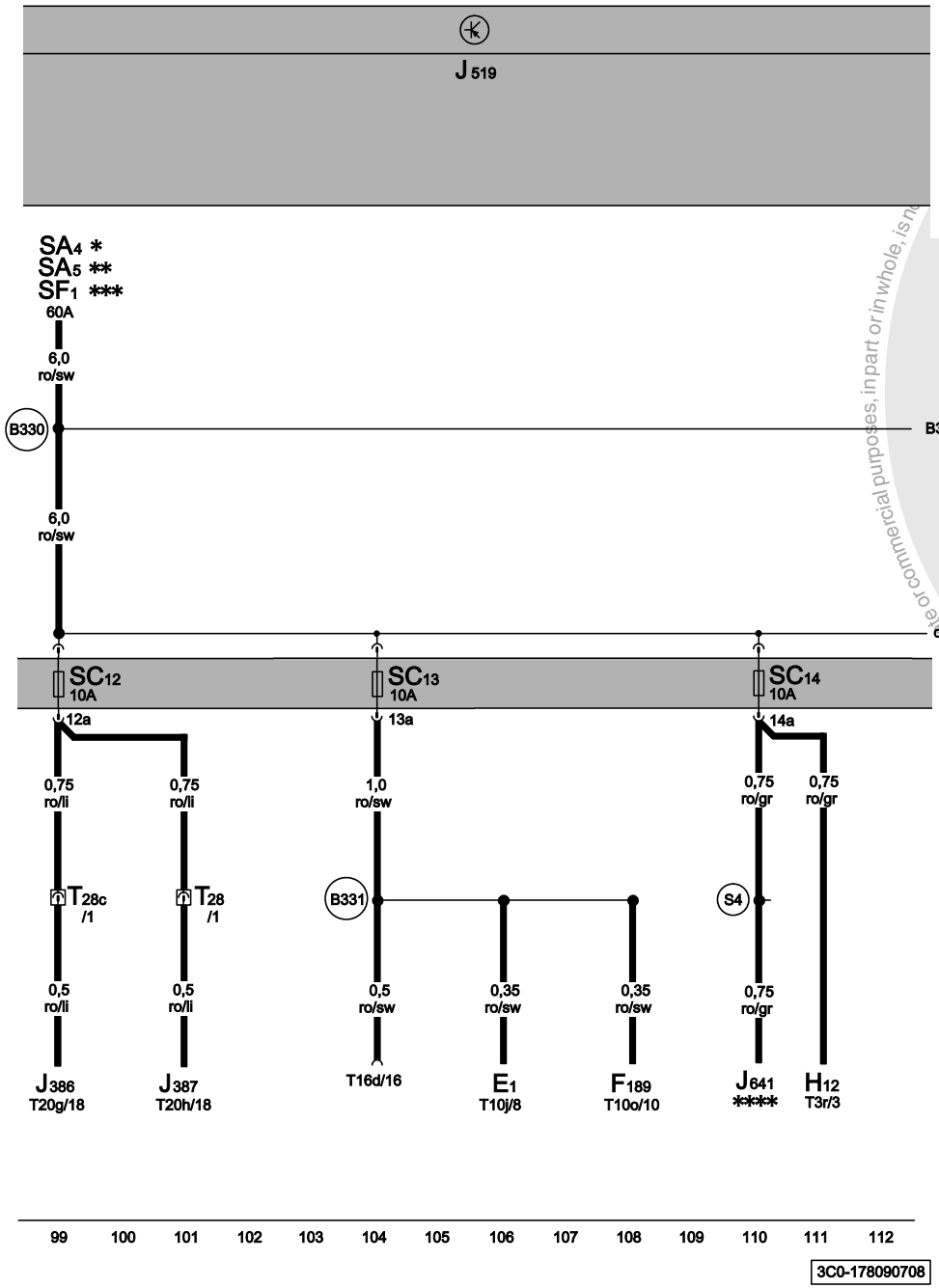


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sw = black
ro = red
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gn = green
bl = blue
gr = grey
li = purple
ge = yellow
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rs = pink

SC fuses, SC18, SC19, SC20

E284	Garage door operating unit
J29	Blocking diode
J519	Onboard supply control unit
J428	Adaptive cruise control unit
J446	Parking aid control unit
J791	Park assist steering control unit
N79	Crankcase breather heater element
SC18	Fuse 18 on fuse holder C
SC19	Fuse 19 on fuse holder C
SC20	Fuse 20 on fuse holder C
T1p	Single connector
T1q	Single connector
T2gm	2-pin connector
T3ar	3-pin connector
T10a	10-pin connector, coupling point on left of front bumper
T10e	10-pin connector, black, coupling point for roof wiring harness
T10y	10-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16	16-pin connector, brown
T16a	16-pin connector, brown
B135	Connection 1 (15a), in interior wiring harness
B571	Connection 38, in main wiring harness
*	Only models for cold countries
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/rahmen.png" content-width="20pt" scaling="uniform"/>	Flexible printed circuit

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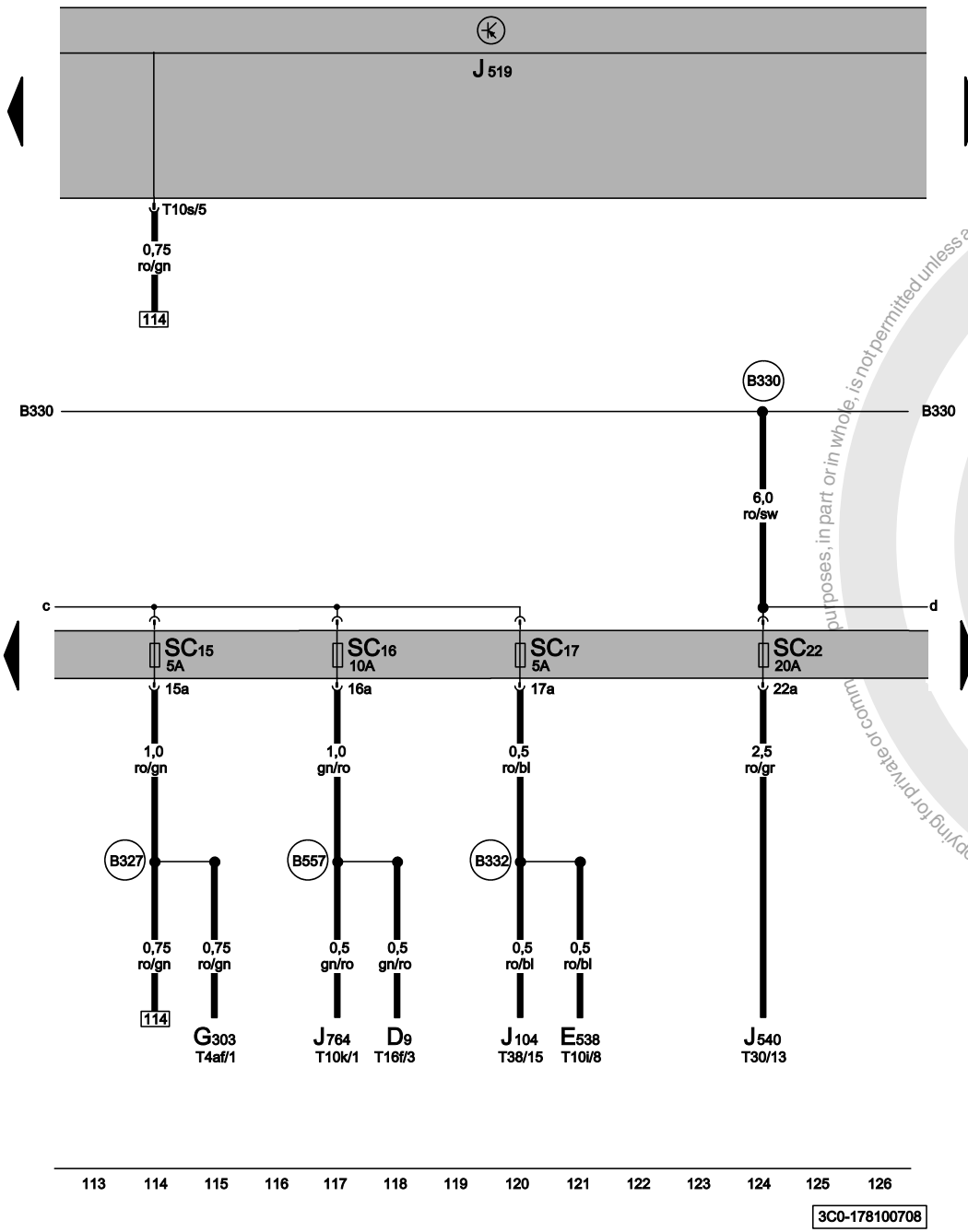


SC fuses, SC12, SC13, SC14

E1	Light switch
F189	Tiptronic switch
H12	Alarm horn
J386	Driver door control unit
J387	Front passenger side door control unit
J519	Onboard supply control unit
J641	Alarm horn relay
SA4	Fuse 4 on fuse holder A
SA5	Fuse 5 on fuse holder A
SC12	Fuse 12 on fuse holder C
SC13	Fuse 13 on fuse holder C
SC14	Fuse 14 on fuse holder C
SF1	Fuse 1 on fuse holder F
T3r	3-pin connector
T10j	10-pin connector, black
T10o	10-pin connector, on gearbox
T16d	16-pin connector, self-diagnosis connection
T20g	20-pin connector
T20h	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28c	28-pin connector, coupling point, left A-pillar
B330	Connection 16 (30a), in main wiring harness
B331	Connection 17 (30a), in main wiring harness
S4	Positive connection (30) 2, in central locking wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Only models with rear battery
****	Only American markets

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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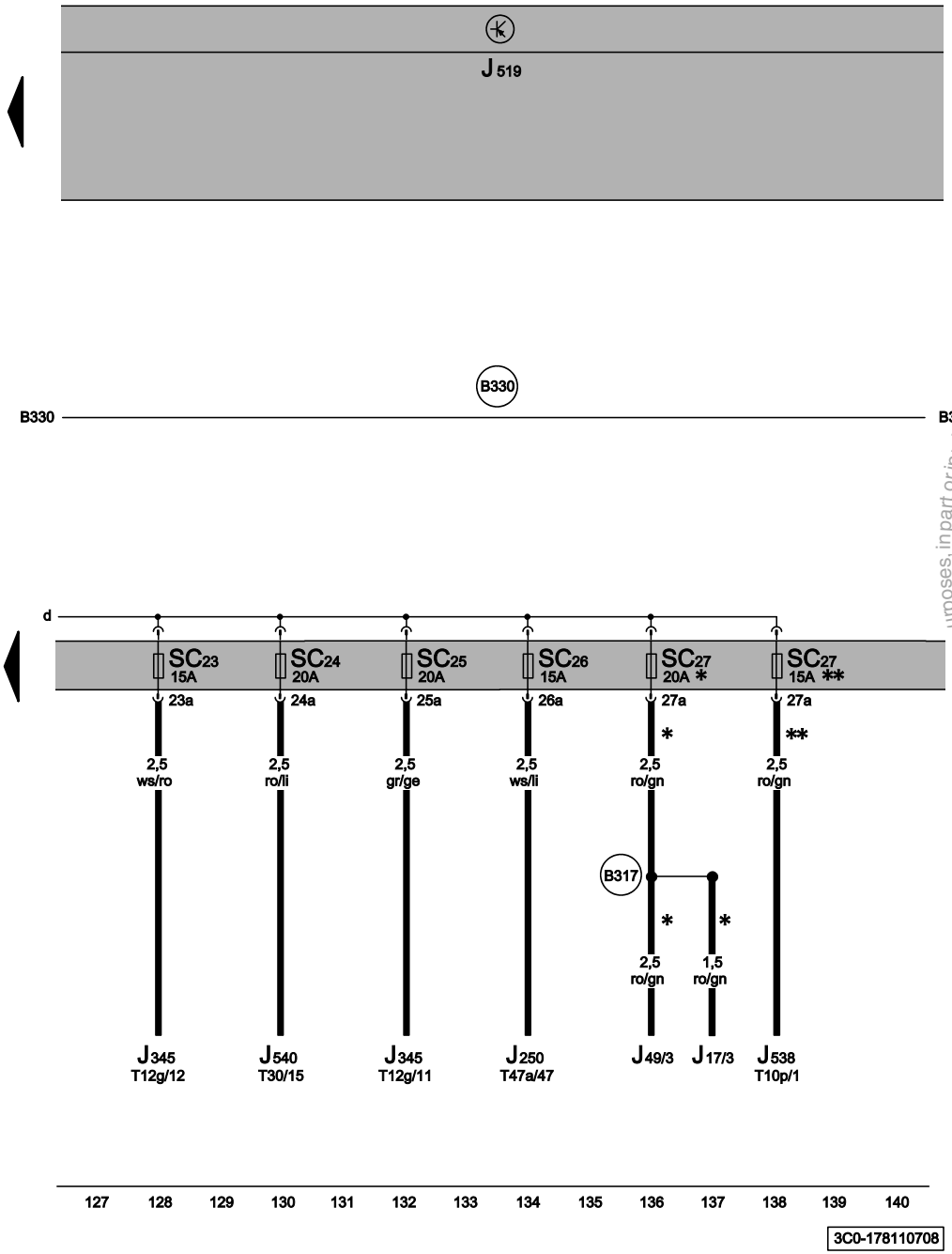


SC fuses, SC15, SC16, SC17, SC22

D9	Electronic ignition lock
E538	Electromechanical parking brake button
G303	Interior monitor send and receive module 1
J104	ABS control unit
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J764	Electronic steering column lock control unit
SC15	Fuse 15 on fuse holder C
SC16	Fuse 16 on fuse holder C
SC17	Fuse 17 on fuse holder C
SC22	Fuse 22 on fuse holder C
T4af	4-pin connector
T10k	10-pin connector
T10i	10-pin connector
T10s	10-pin connector, brown
T16f	16-pin connector
T30	30-pin connector
T38	38-pin connector
B332	Connection 18 (30a), in main wiring harness
B327	Connection 13 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B557	Connection 21 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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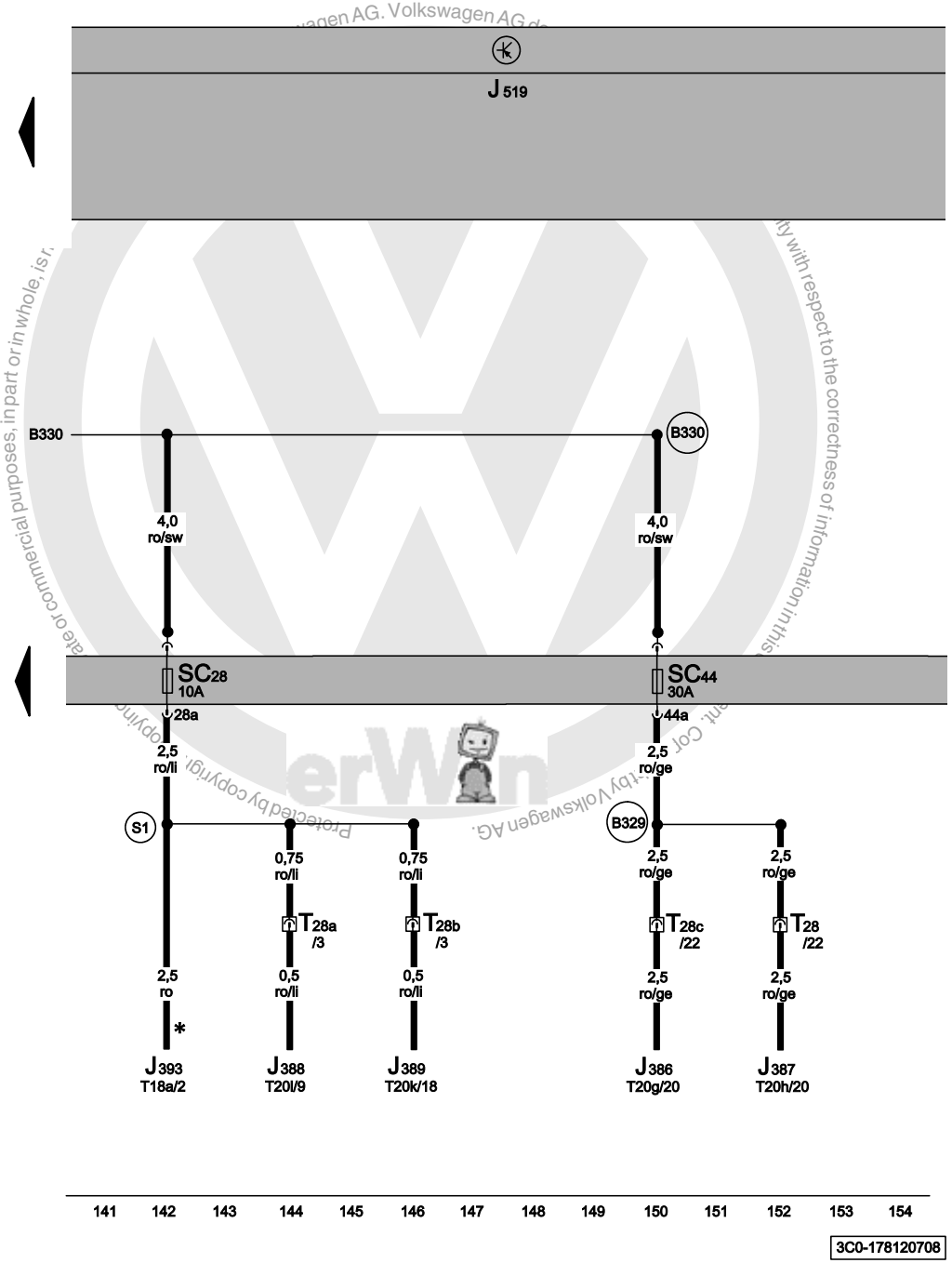


SC fuses SC23, SC24, SC25, SC26, SC27

J17	Fuel pump relay
J49	Electric fuel pump 2 relay
J250	Electronically controlled damping control unit
J345	Trailer detector control unit
J519	Onboard supply control unit
J538	Fuel pump control unit
J540	Control unit for electromechanical parking brake
SC23	Fuse 23 on fuse holder C
SC24	Fuse 24 on fuse holder C
SC25	Fuse 25 on fuse holder C
SC26	Fuse 26 on fuse holder C
SC27	Fuse 27 on fuse holder C
T10p	10-pin connector
T12g	12-pin connector, red
T30	30-pin connector
T47a	47-pin connector
B317	Connection 3 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
*	Only models with diesel engine
**	Only models with petrol engine

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

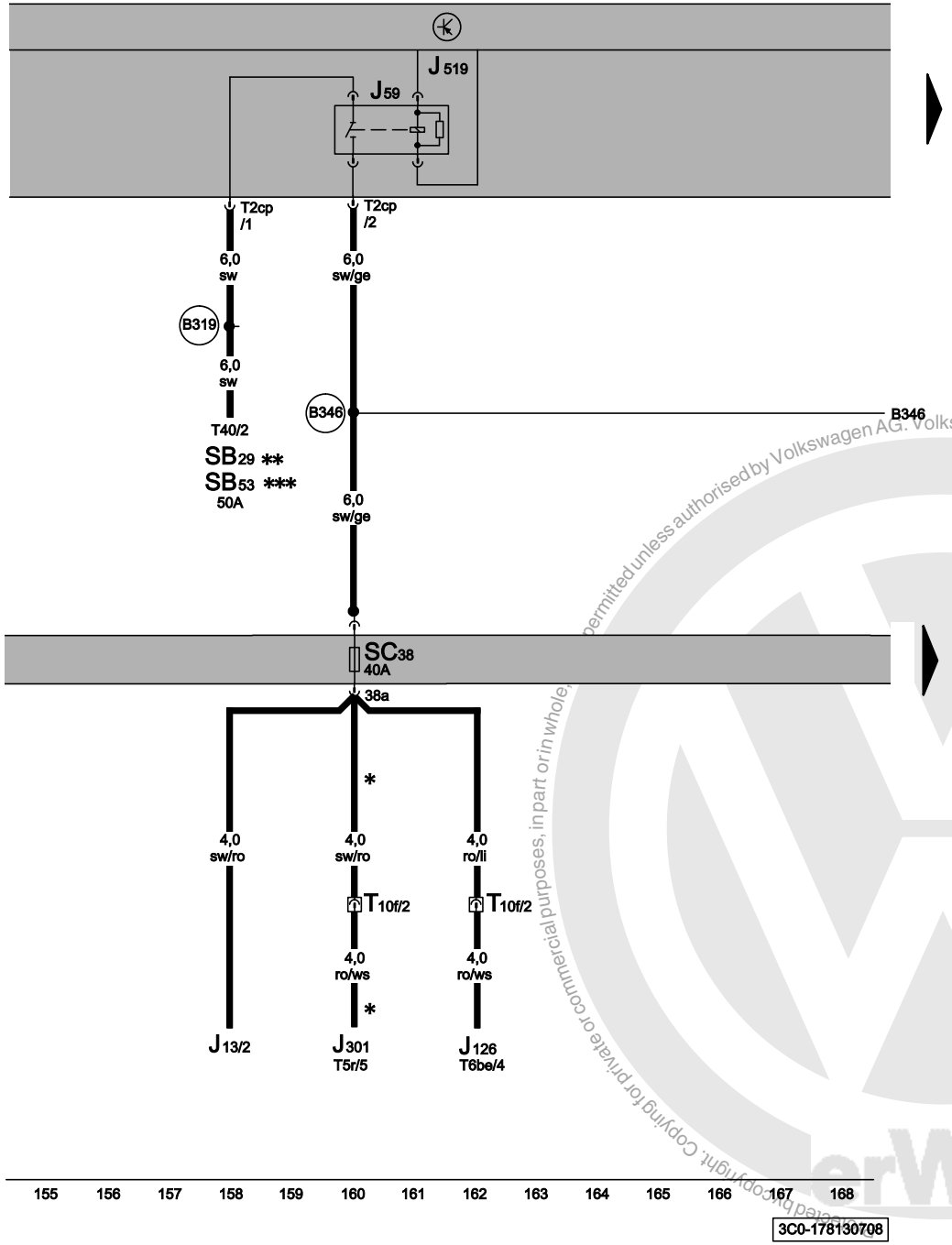
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SC fuses, SC28, SC44

J386	Driver door control unit
J387	Front passenger side door control unit
J388	Rear left door control unit
J389	Rear right door control unit
J393	Convenience system central control unit
J519	Onboard supply control unit
SC28	Fuse 28 on fuse holder C
SC44	Fuse 44 on fuse holder C
T18a	18-pin connector
T20g	20-pin connector
T20h	20-pin connector
T20k	20-pin connector
T20l	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
T28c	28-pin connector, coupling point, left A-pillar
B329	Connection 15 (30a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
S1	Positive connection (30), in central locking wiring harness
*	Only models with entry and start authorisation (Kessy)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

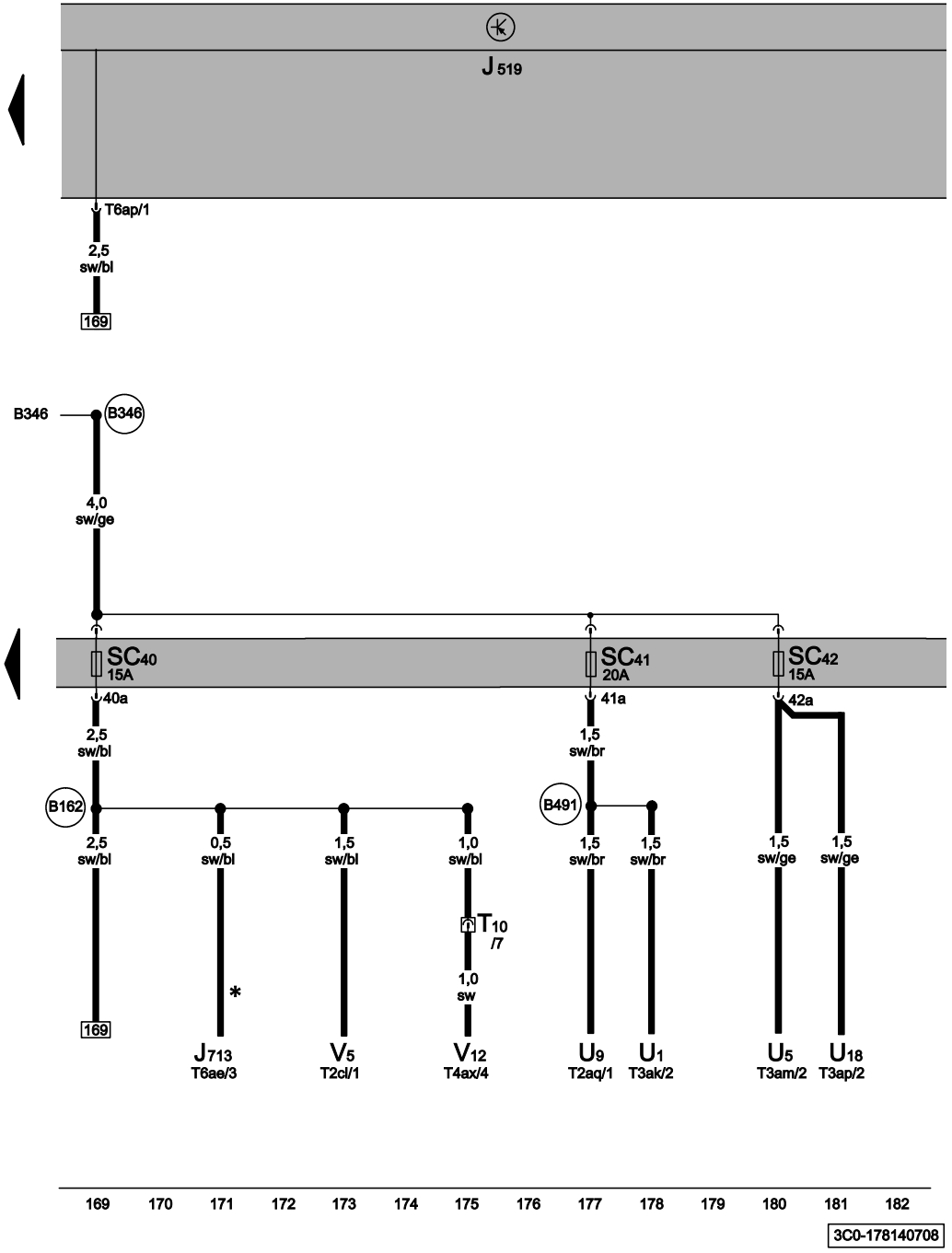


SC fuses, SC38

J13	Fresh air blower relay
J59	X-contact relief relay
J126	Fresh air blower control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
SB29	Fuse 29 on fuse holder B
SB53	Fuse 53 on fuse holder B
SC38	Fuse 38 on fuse holder C
T2cp	2-pin connector
T5r	5-pin connector
T6be	6-pin connector
T10f	10-pin connector, coupling point climatic box
T40	40-pin connector, on E-box
B319	Connection 5 (30a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
*	Only models with no auxiliary coolant heater
**	Only models with E-box low
***	Only models with E-box high

ws	=	white
sw	=	black
ro	=	red
br	=	brown
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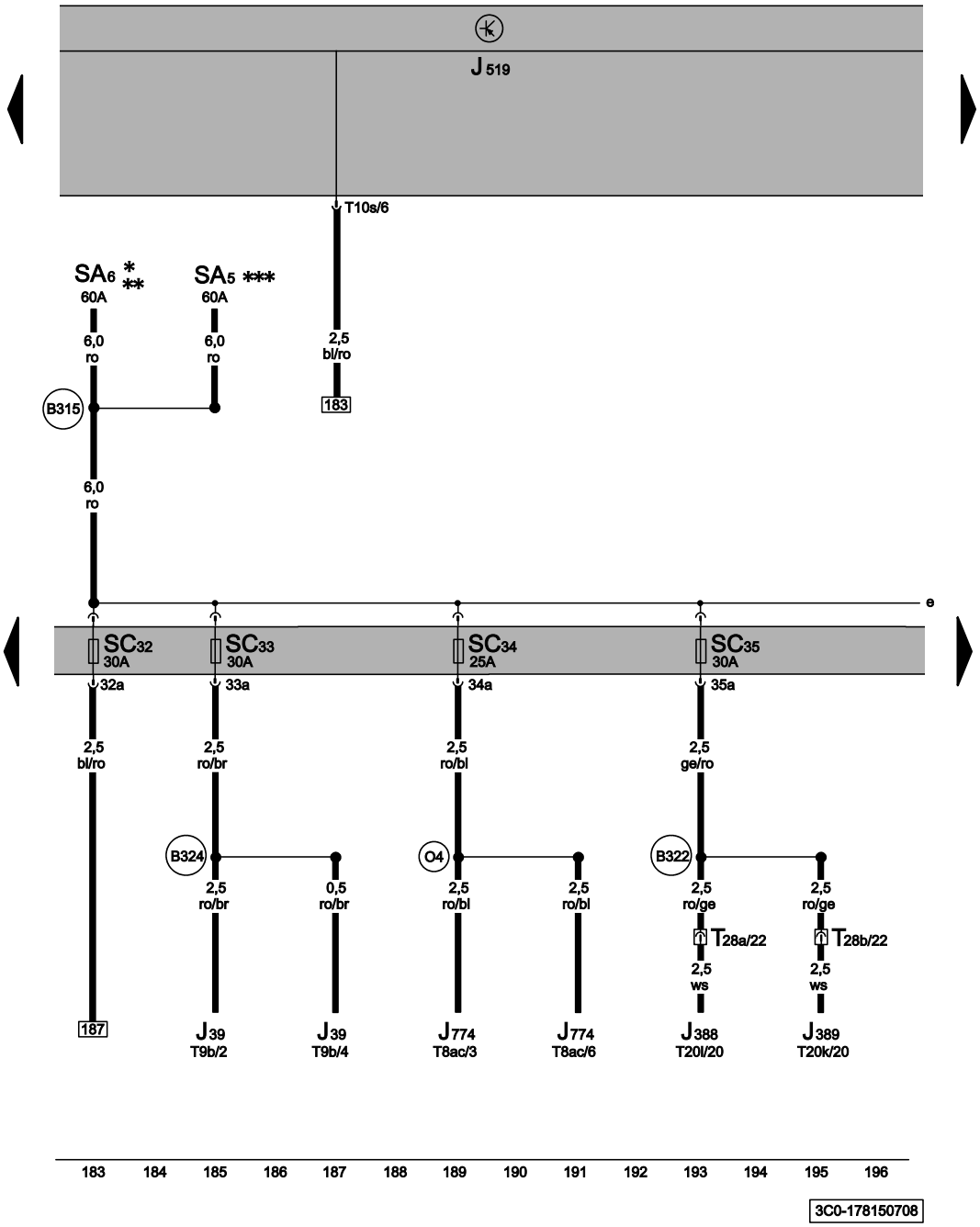


SC fuses, SC40, SC41, SC42

J519	Onboard supply control unit
J713	Second battery charging circuit relay
SC40	Fuse 40 on fuse holder C
SC41	Fuse 41 on fuse holder C
SC42	Fuse 42 on fuse holder C
T2aq	2-pin connector
T2cl	2-pin connector
T3ak	3-pin connector
T3am	3-pin connector
T3ap	3-pin connector
T4ax	4-pin connector, black
T6ae	6-pin connector
T6ap	6-pin connector
T10	10-pin connector, coupling point on left of rear lid
U1	Cigarette lighter
U5	12 V socket
U9	Rear cigarette lighter
U18	12 V socket 2
V5	Washer pump
V12	Rear window wiper motor
B162	Connection (75a), in interior wiring harness
B346	Connection 1 (75), in main wiring harness
B491	Positive connection (75), in interior wiring harness
*	Only models with second battery

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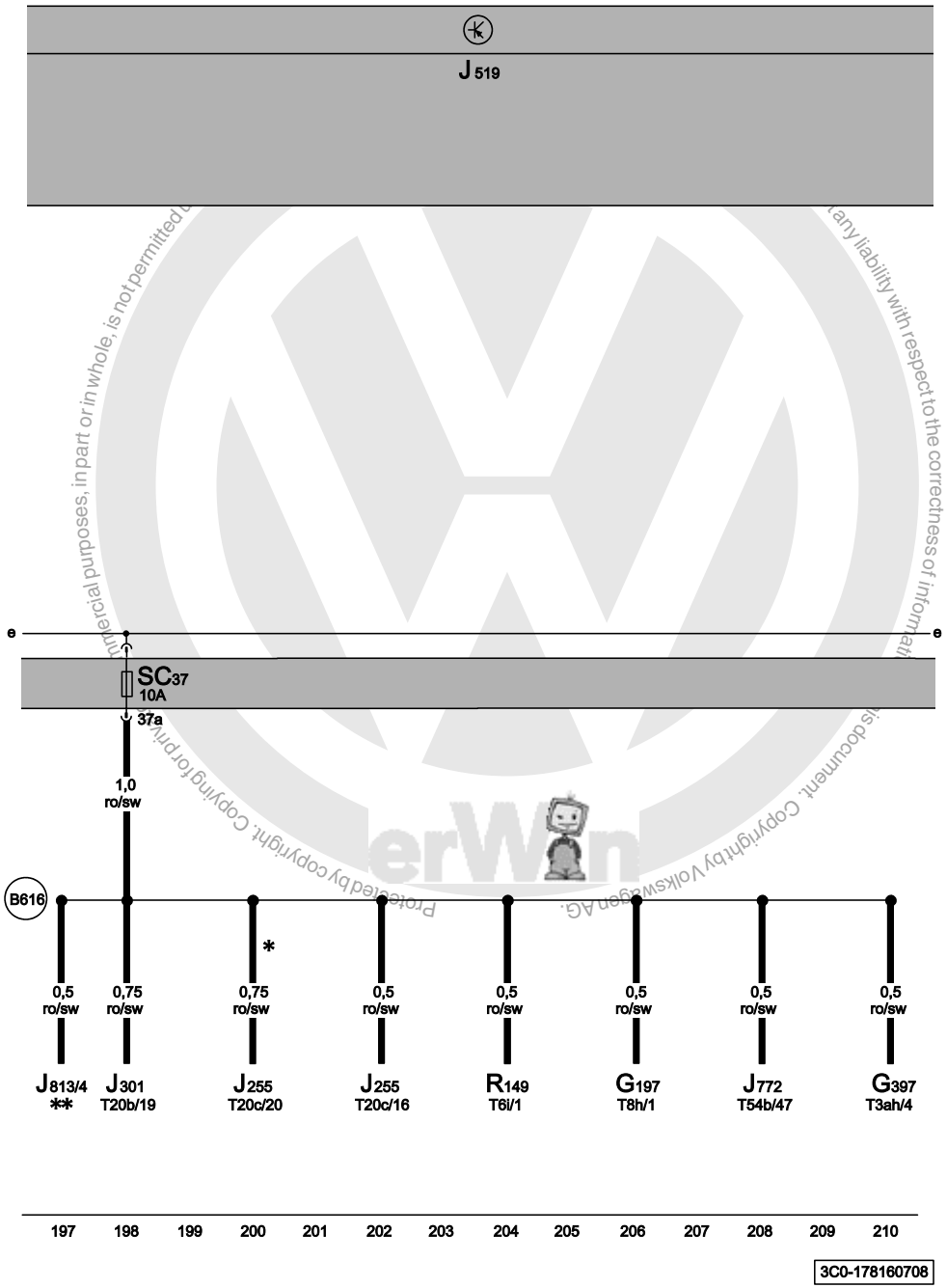


SC fuses, SC32, SC33, SC34, SC35

J39	Headlight washer system relay
J388	Rear left door control unit
J389	Rear right door control unit
J519	Onboard supply control unit
J774	Control unit for heated front seats
SA5	Fuse 5 on fuse holder A
SA6	Fuse 6 on fuse holder A
SC32	Fuse 32 on fuse holder C
SC33	Fuse 33 on fuse holder C
SC34	Fuse 34 on fuse holder C
SC35	Fuse 35 on fuse holder C
T8ac	8-pin connector
T9b	9-pin connector
T10s	10-pin connector, brown
T20k	20-pin connector
T20l	20-pin connector
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
B315	Connection 1 (30a), in main wiring harness
B322	Connection 8 (30a), in main wiring harness
B324	Connection 10 (30a), in main wiring harness
O4	Positive connection (30as), in seat heating wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Only models with rear battery

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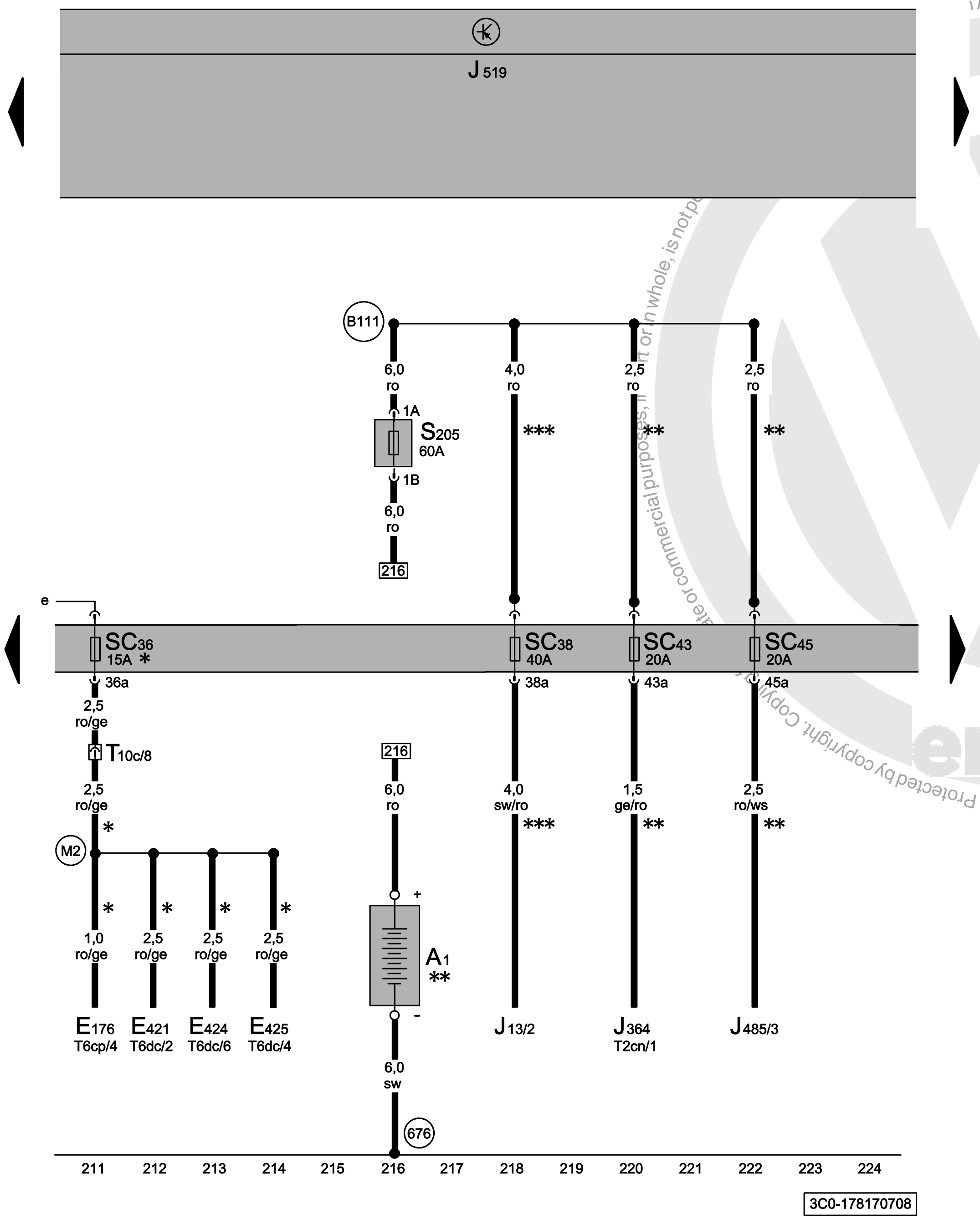


SC fuses, SC37

G197	Magnetic field sender for compass
G397	Rain and light detection sensor
J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
J772	Reversing camera system control unit
J813	Voltage monitoring relay
R149	Remote control receiver for auxiliary coolant heater
SC37	Fuse 37 on fuse holder C
T3ah	3-pin connector
T6i	6-pin connector
T8h	8-pin connector
T20b	20-pin connector
T20c	20-pin connector
T54b	54-pin connector
B616	Positive connection 12 (30a), in interior wiring harness
*	Only models with auxiliary heater
**	Only models with multimedia system RSE (Rear Seat Entertainment)

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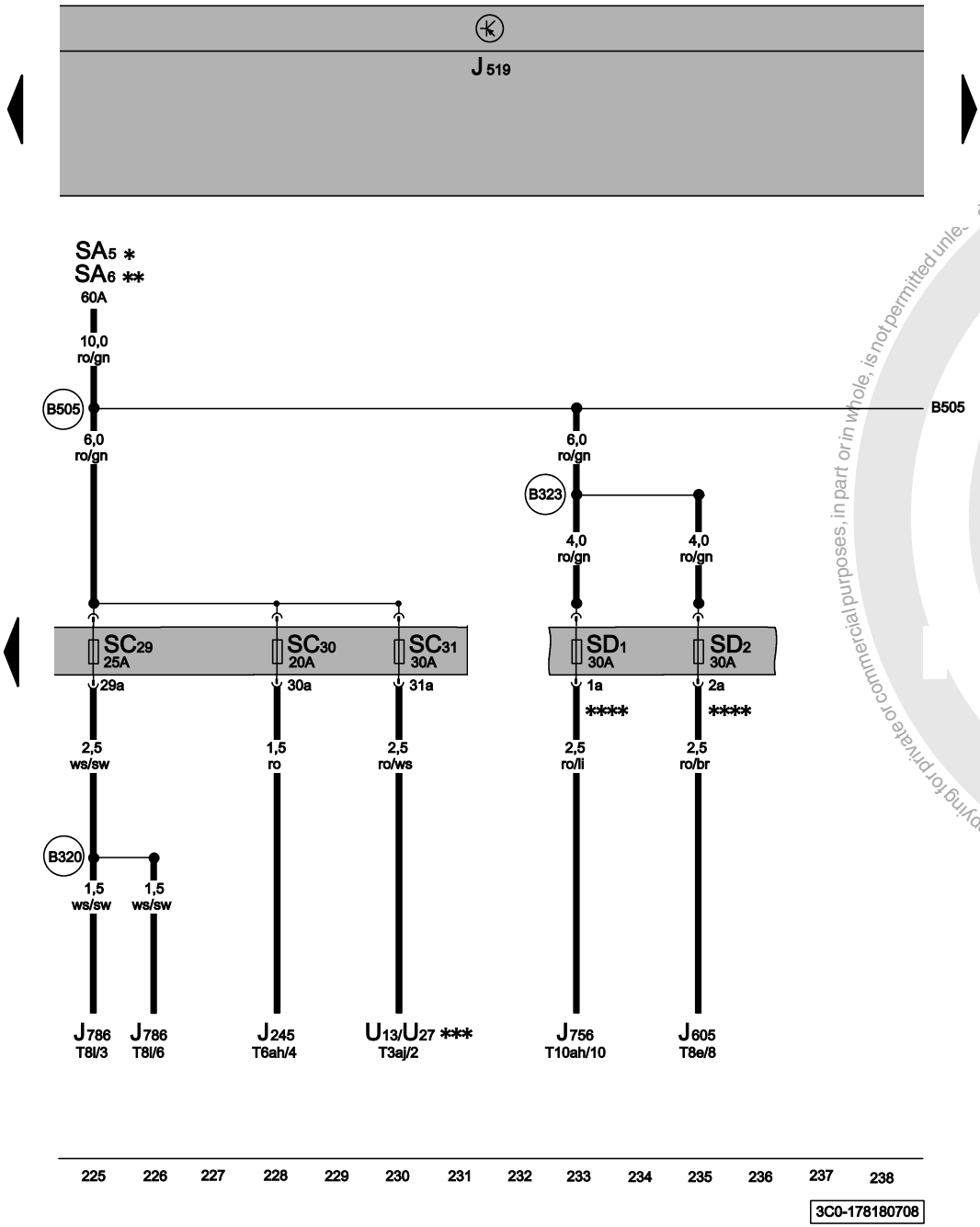
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SC fuses, SC36, SC38, SC43, SC45

A1	Second battery
E176	Driver seat lumbar support adjustment switch
E421	Rake adjustment button
E424	Seat height adjustment button
E425	Backrest adjustment button
J13	Fresh air blower relay
J364	Auxiliary heater control unit
J485	Auxiliary heater operation relay
J519	Onboard supply control unit
S205	Fuse 2 (30), near second battery
SC36	Fuse 36 on fuse holder C
SC38	Fuse 38 on fuse holder C
SC43	Fuse 43 on fuse holder C
SC45	Fuse 45 on fuse holder C
T2cn	2-pin connector, black
T6dc	6-pin connector
T6cp	6-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
676	Earth point 2, on left in luggage compartment
B111	Positive connection 1 (30a), in interior wiring harness
M2	Positive connection 2 (30), in seat adjustment wiring harness
*	Only models with electrically operated seats
**	Only models with second battery
***	Only models with Climatronic and second battery

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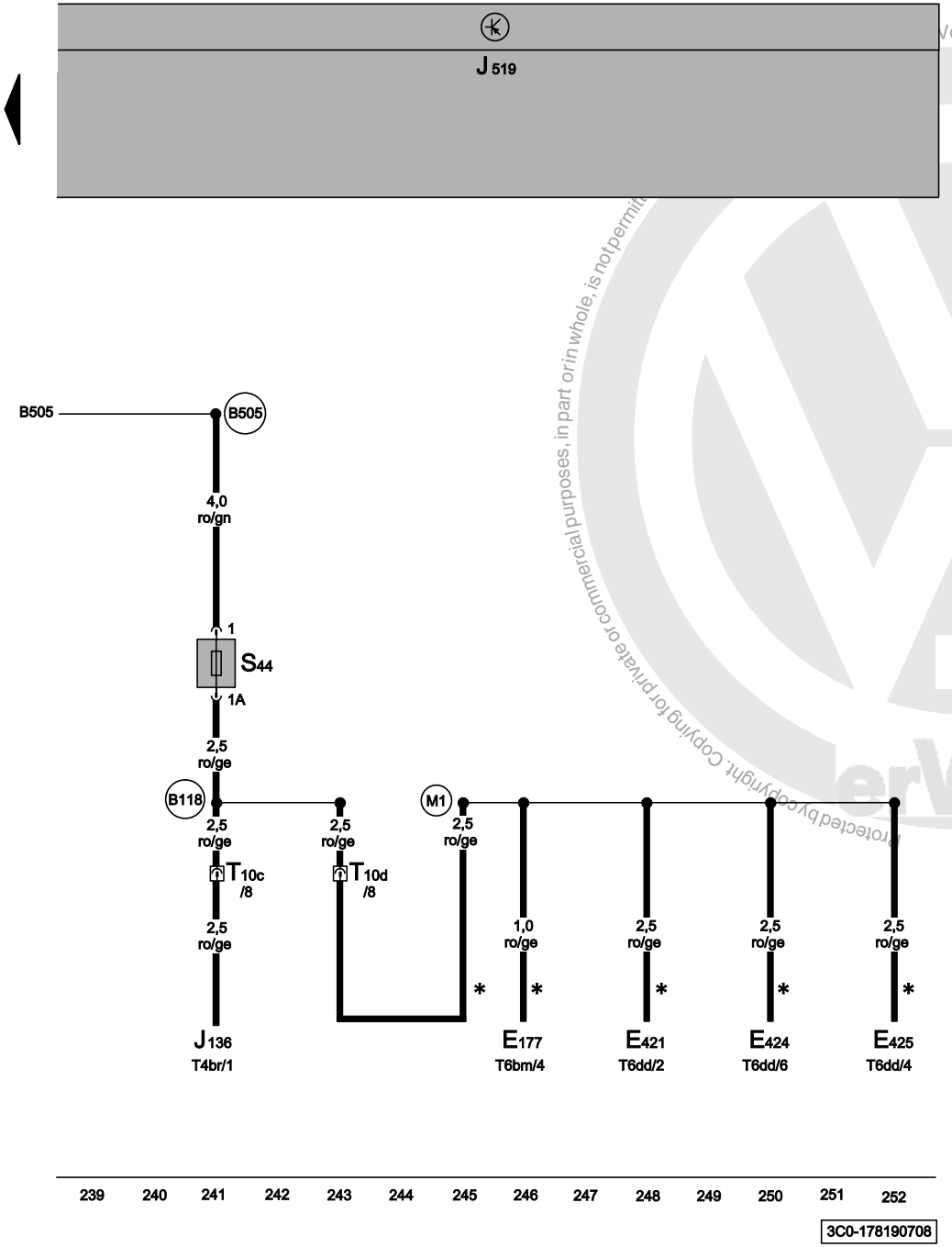


SC fuses SC29, SC30, SC31, SD fuses, SD1, SD2

J245	Sliding sunroof adjustment control unit
J519	Onboard supply control unit
J605	Rear lid control unit
J756	Rear lid control unit 2
J786	Heated rear seats control unit
SA5	Fuse 5 on fuse holder A
SA6	Fuse 6 on fuse holder A
SC29	Fuse 32 on fuse holder C
SC30	Fuse 33 on fuse holder C
SC31	Fuse 34 on fuse holder C
SD1	Fuse 1 on fuse holder D
SD2	Fuse 2 on fuse holder D
T3aj	3-pin connector
T6ah	6-pin connector
T8e	8-pin connector
T8l	8-pin connector
T10ah	10-pin connector
U13	Refrigerator socket, 230 V, 110 V
U27	AC/DC converter with socket, 12 V - 230 V
B320	Connection 6 (30a), in main wiring harness
B323	Connection 9 (30a), in main wiring harness
B505	Positive connection 9 (30a), in interior wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Depends on equipment
****	Only Variant

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sw	=	black
ro	=	red
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Thermal fuse

E177	Front passenger seat lumbar support adjustment switch
E421	Rake adjustment button
E424	Seat height adjustment button
E425	Backrest adjustment button
J136	Seat and steering column adjustment control unit with memory
J519	Onboard supply control unit
S44	Driver seat adjustment thermal fuse 1
T4br	4-pin connector, black
T6bm	6-pin connector
T6dd	6-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
B118	Connection (driver side seat adjustment), in interior wiring harness
B505	Positive connection 9 (30a), in interior wiring harness
M1	Positive connection 1 (30), in seat adjustment wiring harness
*	Only models with electrically operated seats on front passenger side

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Multimedia system RSE (Rear Seat Entertainment)

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

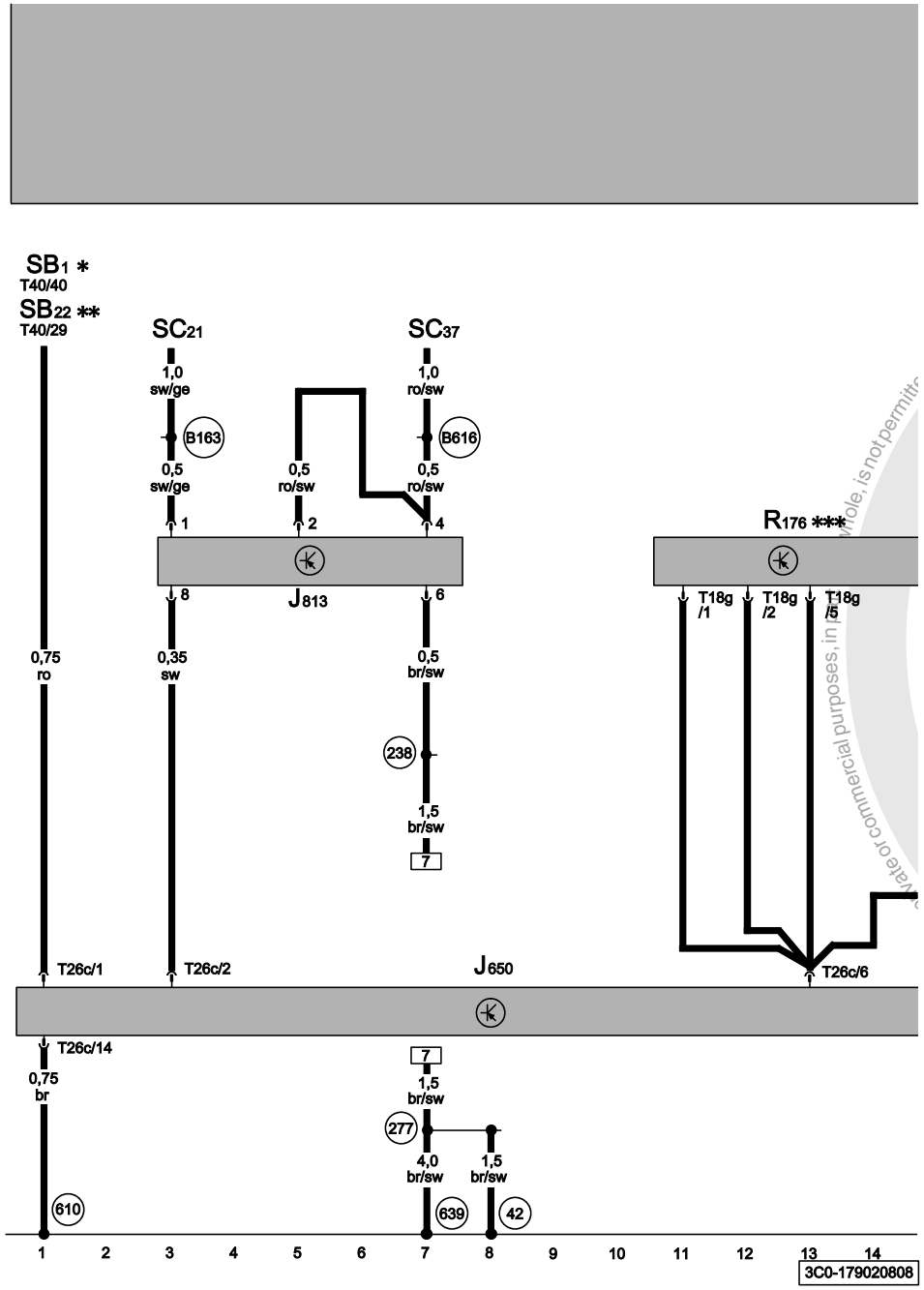
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Multimedia system control unit, voltage monitoring relay, additional connections unit for audio and video

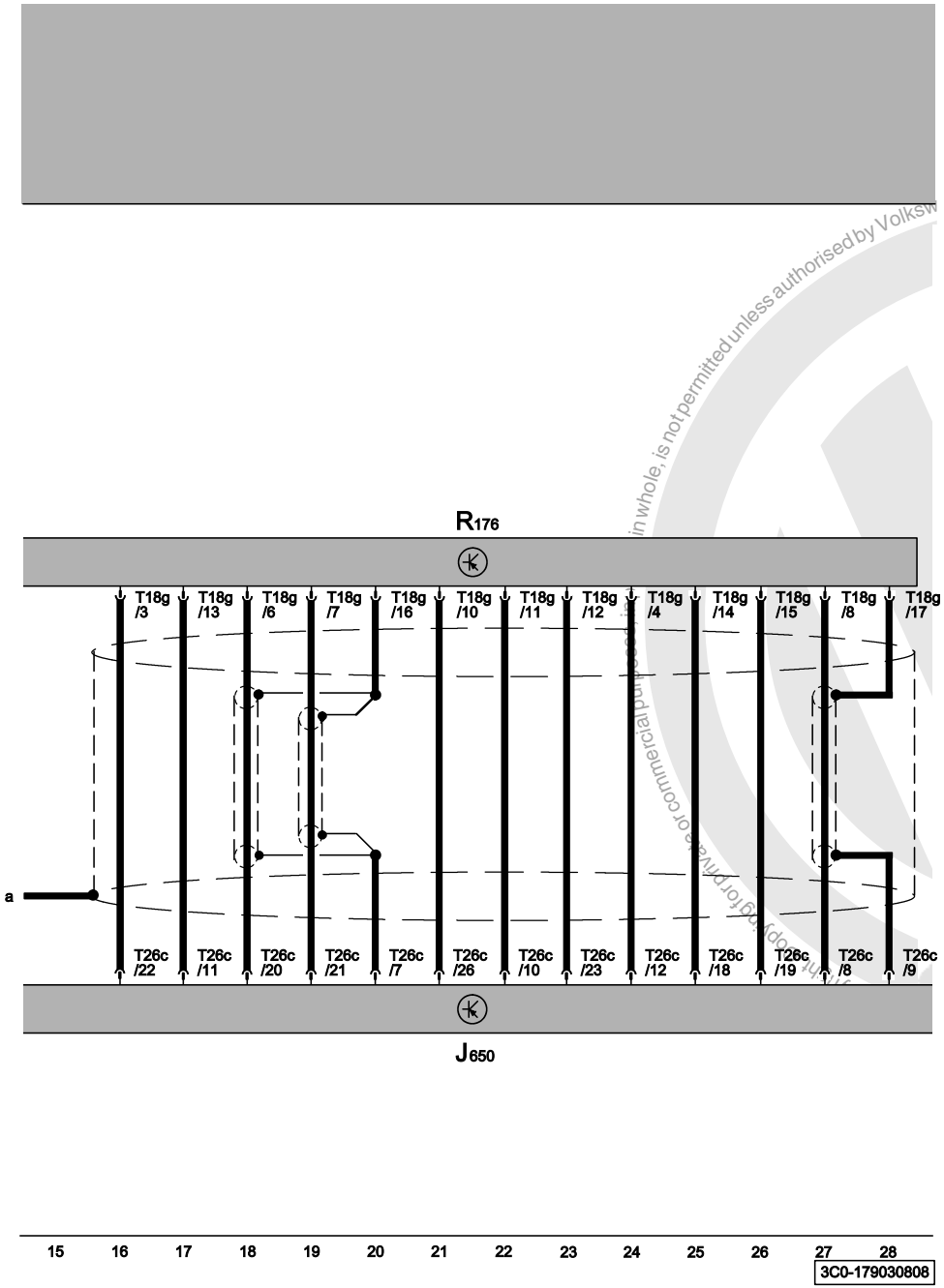
R176	Auxiliary connections for audio and video
J813	Voltage monitoring relay, on relay carrier 1 on left under dash panel
J650	Multimedia control unit
SB1	Fuse 1 on fuse holder B
SB22	Fuse 22 on fuse holder B
SC21	Fuse 21 on fuse holder C
SC37	Fuse 37 on fuse holder C
T18g	18-pin connector
T26c	26-pin connector, black
T40	40-pin connector
42	Earth point, next to steering column
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
610	Earth point (audio), at front under centre console
639	Earth point, left A-pillar
B163	Positive connection 1 (15), in interior wiring harness
B616	Positive connection 12 (30a), in interior wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	In rear centre console

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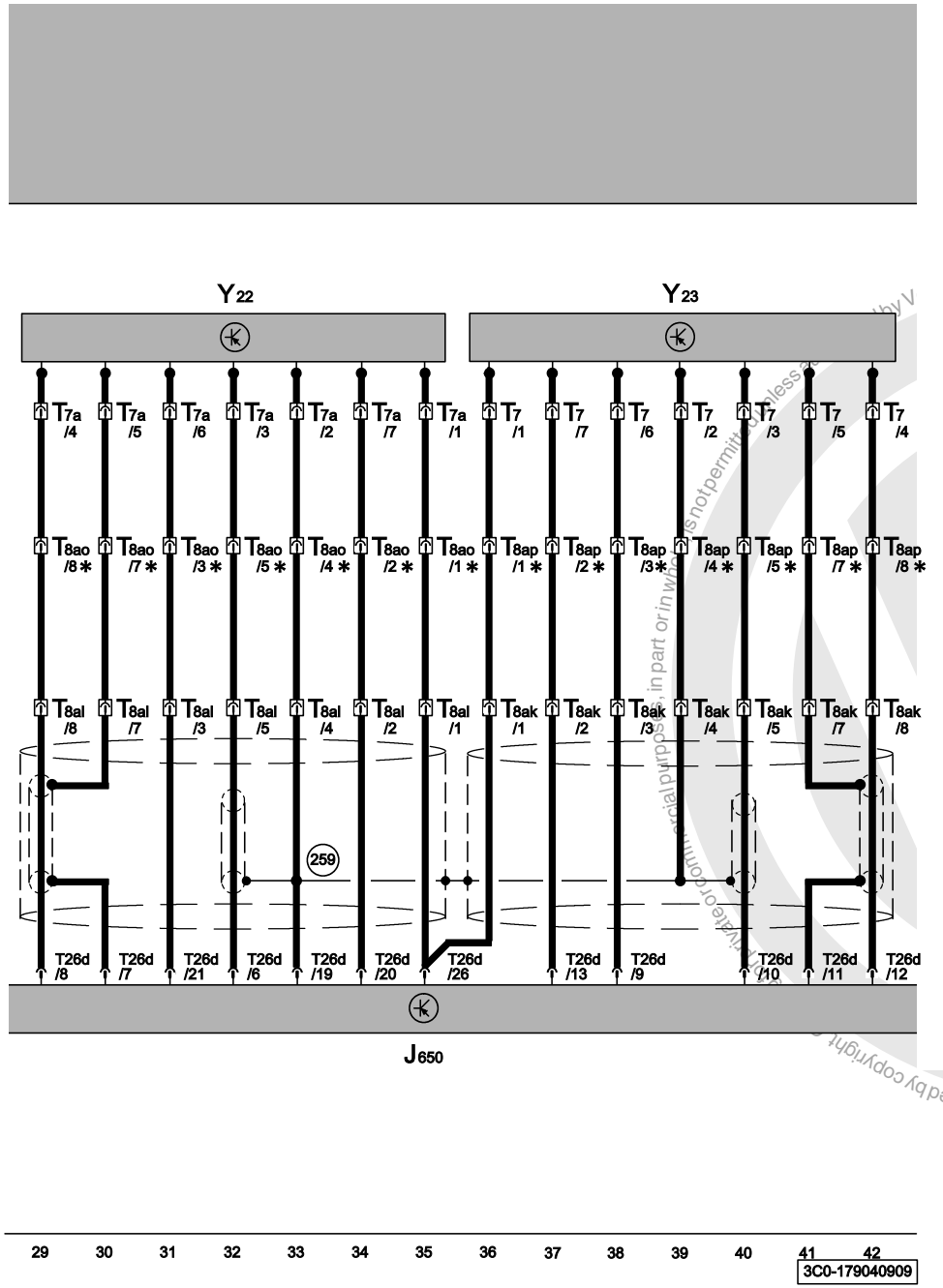
Multimedia system control unit, auxiliary connections for audio and video

R176 Auxiliary connections for audio and video, in rear centre console
J650 Multimedia control unit
T18g 18-pin connector
T26c 26-pin connector, black



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Multimedia display unit 1 and 2, multimedia control unit

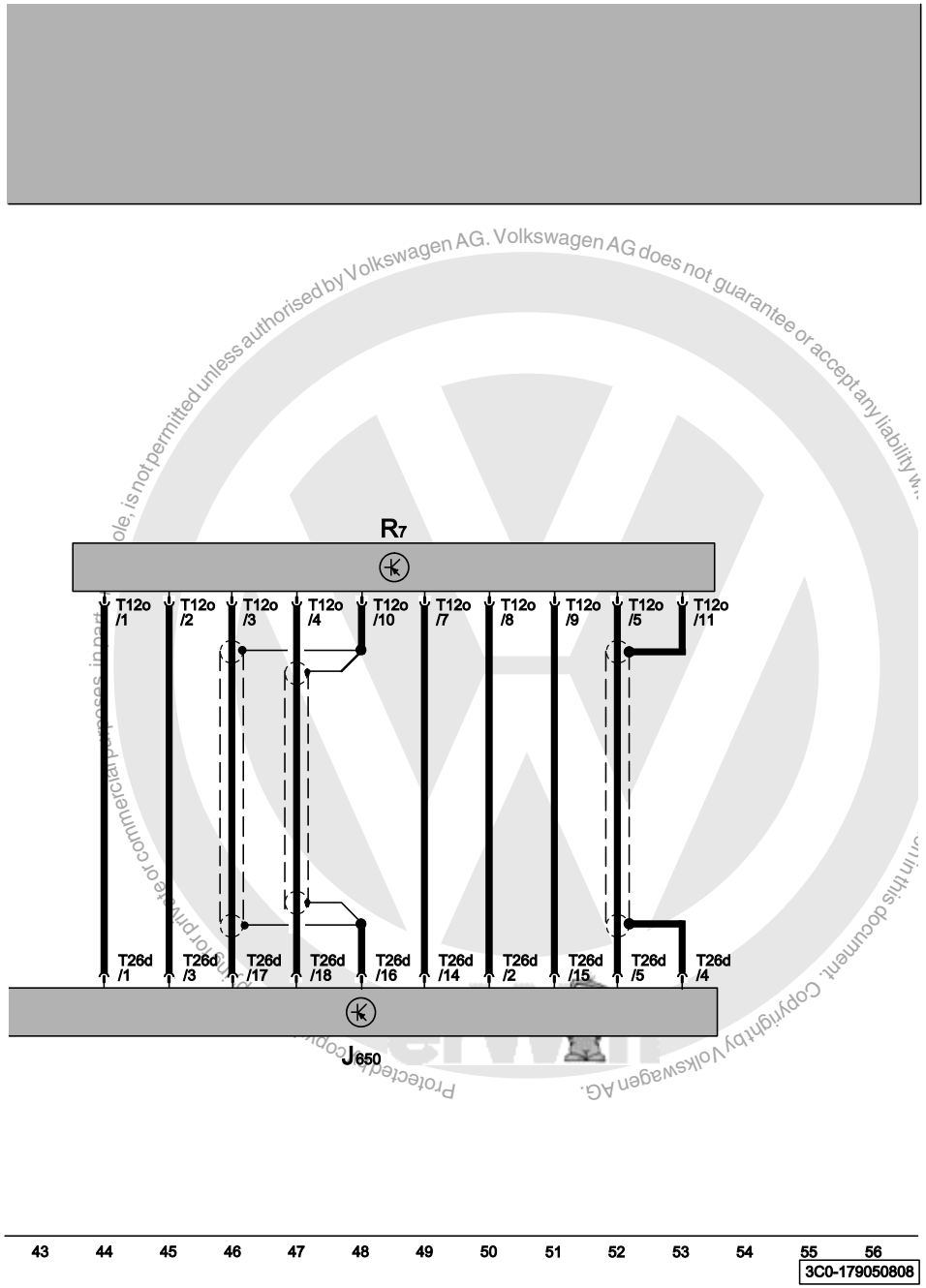
J650	Multimedia control unit
T7	7-pin connector, green, in backrest of front passenger seat
T7a	7-pin connector, green, in backrest of driver's seat
T8ak	8-pin connector, under front passenger seat
T8al	8-pin connector, under driver seat
T8ao	8-pin connector, coupling point for driver's seat backrest
T8ap	8-pin connector, coupling point for front passenger seat backrest
T26d	26-pin connector
Y22	Multimedia display unit 1
Y23	Multimedia display unit 2
(259)	Earth connection 2, in optional equipment wiring harness
*	Connector discontinued from November 2009

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sw	=	black
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Multimedia system control unit, DVD player

J650	Multimedia control unit
R7	DVD player
T12o	12-pin connector
T26d	26-pin connector



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Taxi equipment

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth points

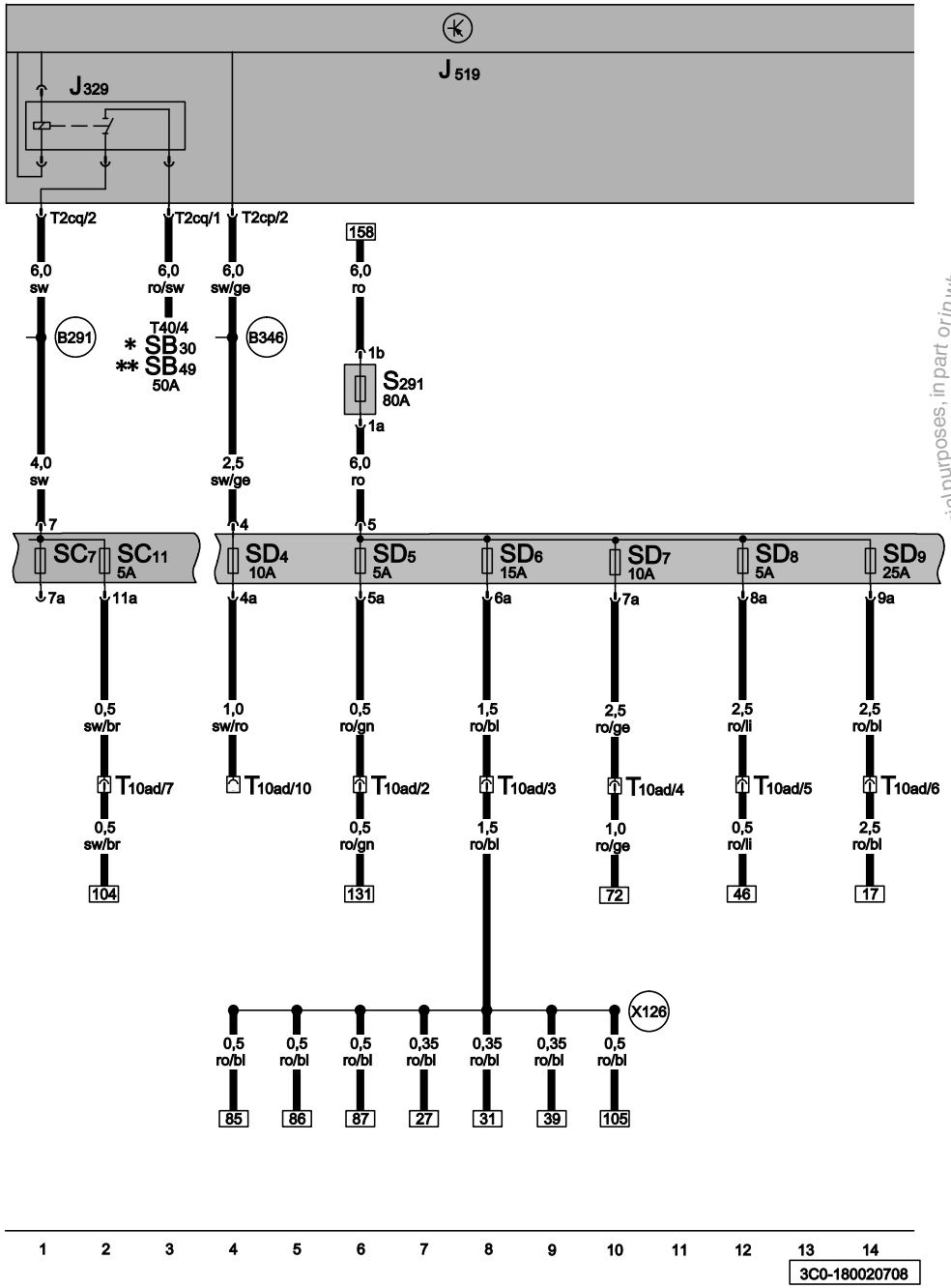
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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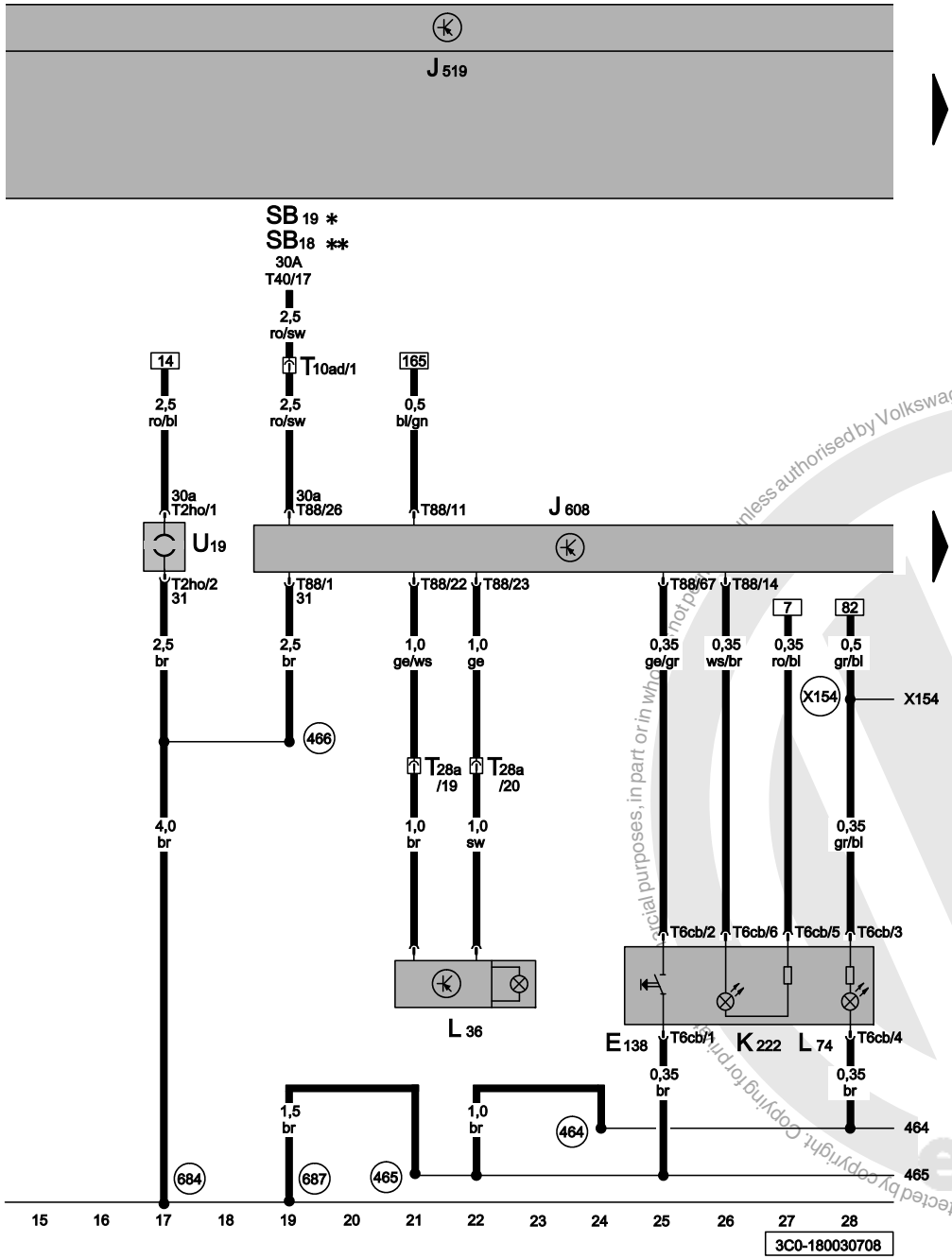


Fuses, terminal 15 voltage supply relay

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
S291	Special vehicle fuse 1
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
SC11	Fuse 11 on fuse holder C
SD4	Fuse 4 on fuse holder D
SD5	Fuse 5 on fuse holder D
SD6	Fuse 6 on fuse holder D
SD7	Fuse 7 on fuse holder D
SD8	Fuse 8 on fuse holder D
SD9	Fuse 9 on fuse holder D
T2cp	2-pin connector
T2cq	2-pin connector
T10ad	10-pin connector, black, coupling point, left A-pillar
T40	40-pin connector
B291	Connection 15 (15a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
X126	Positive connection 2 (30a), in taxi wiring harness
*	Only models with E-box low
**	Only models with E-box high

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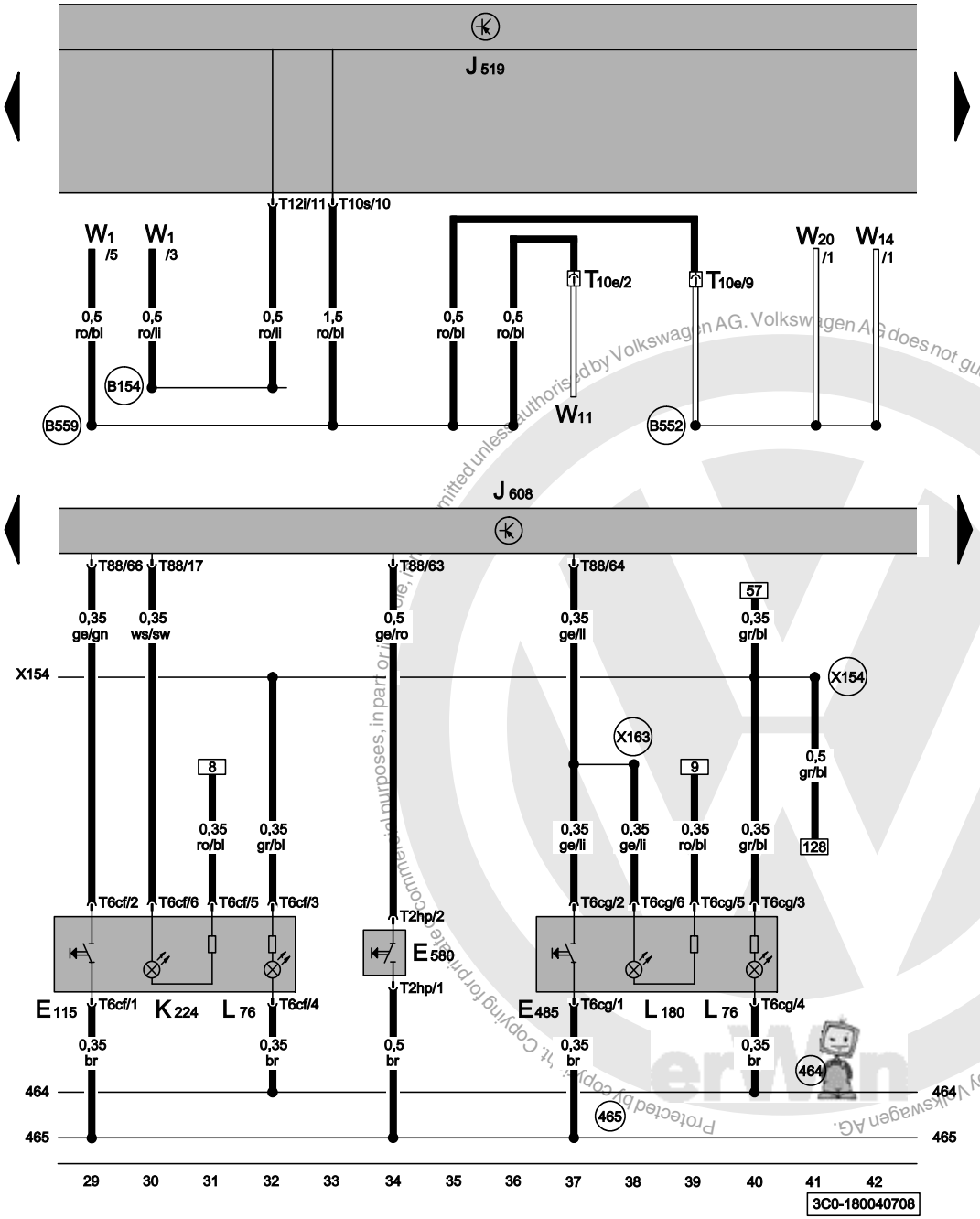


Special vehicle control unit, taxi sign switch, taxi roof sign light bulb, 12 V socket 3

E138	Taxi sign switch
J519	Onboard supply control unit
J608	Special vehicle control unit, under driver seat
K222	Taxi roof sign warning lamp
L36	Taxi roof sign light bulb
L74	Taxi sign switch illumination bulb
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T2ho	2-pin connector, black, centre console
T6cb	6-pin connector
T10ad	10-pin connector, black, coupling point, left A-pillar
T28a	28-pin connector, coupling point, left B-pillar
T40	40-pin connector
T88	88-pin connector
U19	12 V socket 3
464	Earth connection 3, in taxi wiring harness
465	Earth connection 4, in taxi wiring harness
466	Earth connection 5, in taxi wiring harness
684	Earth point, on front of left side member
687	Earth point 1, on centre tunnel
X154	Connection (58), in taxi wiring harness
*	Only models with E-box low
**	Only models with E-box high

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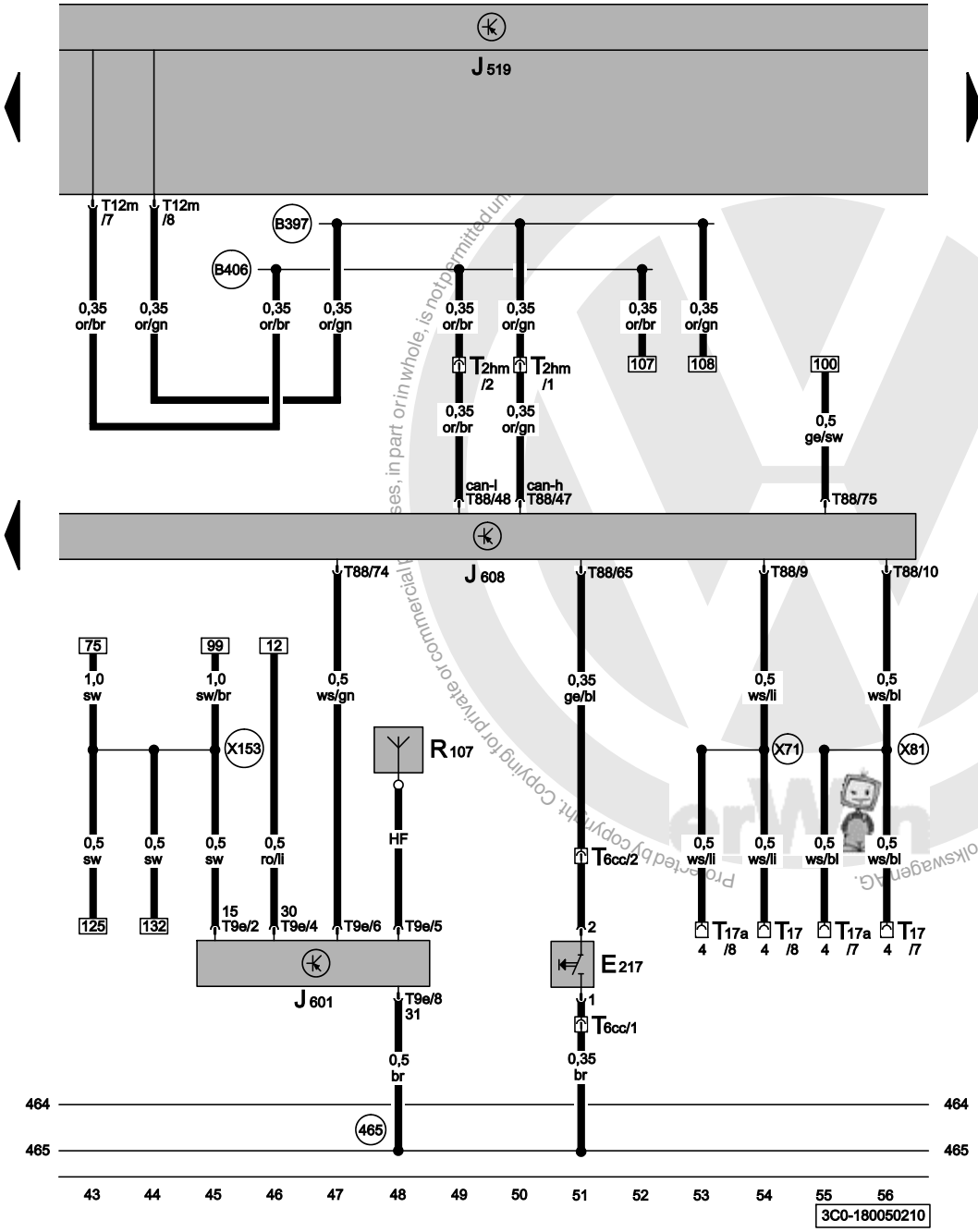
Special vehicle control unit, interior light switch (taxi), passive and active taxi alarm buttons

E115	Interior light switch (taxi)
E485	Taxi alarm active button
E580	Passive Taxi alarm button
J519	Onboard supply control unit
J608	Special vehicle control unit, under driver seat
K224	Interior light warning lamp
L76	Button illumination bulb
L180	Alarm button illumination lamp
T2hp	2-pin connector, black, left A-pillar
T6cf	6-pin connector
T6cg	6-pin connector
T10e	10-pin connector, black, coupling point for roof wiring harness
T10s	10-pin connector, black
T12i	12-pin connector, black
T88	88-pin connector
W1	Front interior light
W11	Rear left reading light
W14	Front passenger side illuminated vanity mirror
W20	Driver side illuminated vanity mirror
464	Earth connection 3, in taxi wiring harness
465	Earth connection 4, in taxi wiring harness
B154	Connection 1 (DCt), in interior wiring harness
B552	Positive connection 2, in roof wiring harness
B559	Connection 1 (30g), in main wiring harness
X154	Connection (58), in taxi wiring harness
X163	Connection 13, in taxi wiring harness
<fo:exter	Flexible printed circuit
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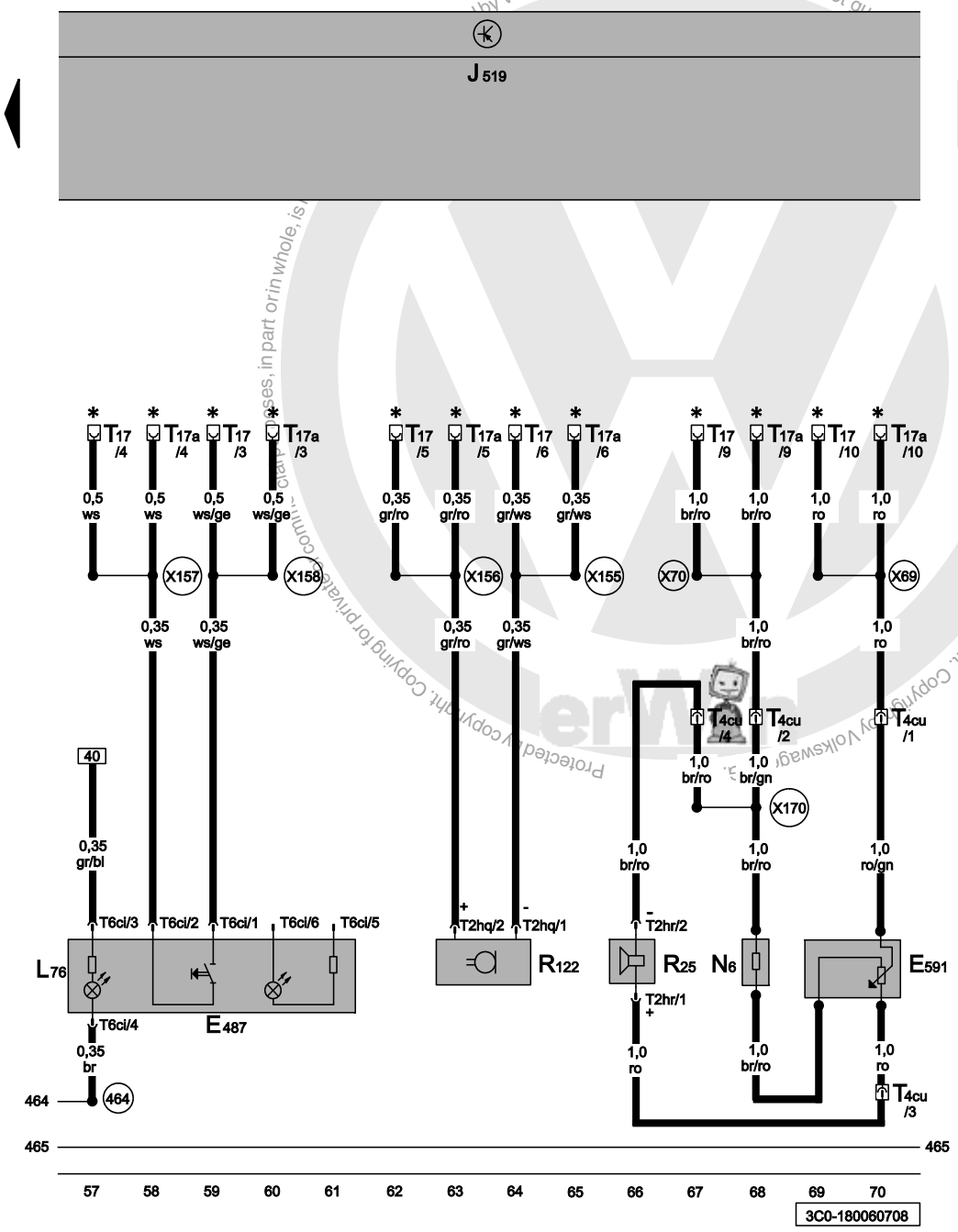


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sw = black
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Special vehicle control unit, control unit for taxi alarm remote control, alarm system off switch, remote controlled taxi alarm aerial

E217	Alarm system off switch
J519	Onboard supply control unit
J601	Taxi alarm remote control control unit
J608	Special vehicle control unit, under driver seat
R107	Remote controlled taxi alarm aerial
T2hm	2-pin connector, black, coupling point for convenience CAN data bus
T6cc	6-pin connector, on left in luggage compartment
T9e	9-pin connector
T12m	12-pin connector, black
T17	17-pin connector, black, in glove compartment
T17a	17-pin connector, black, on right in luggage compartment
T88	88-pin connector
465	Earth connection 4, in taxi wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
X71	Connection 3, in taxi wiring harness
X81	Connection 4, in taxi wiring harness
X153	Positive connection 3 (15), in taxi wiring harness
*	Two-way radio connection

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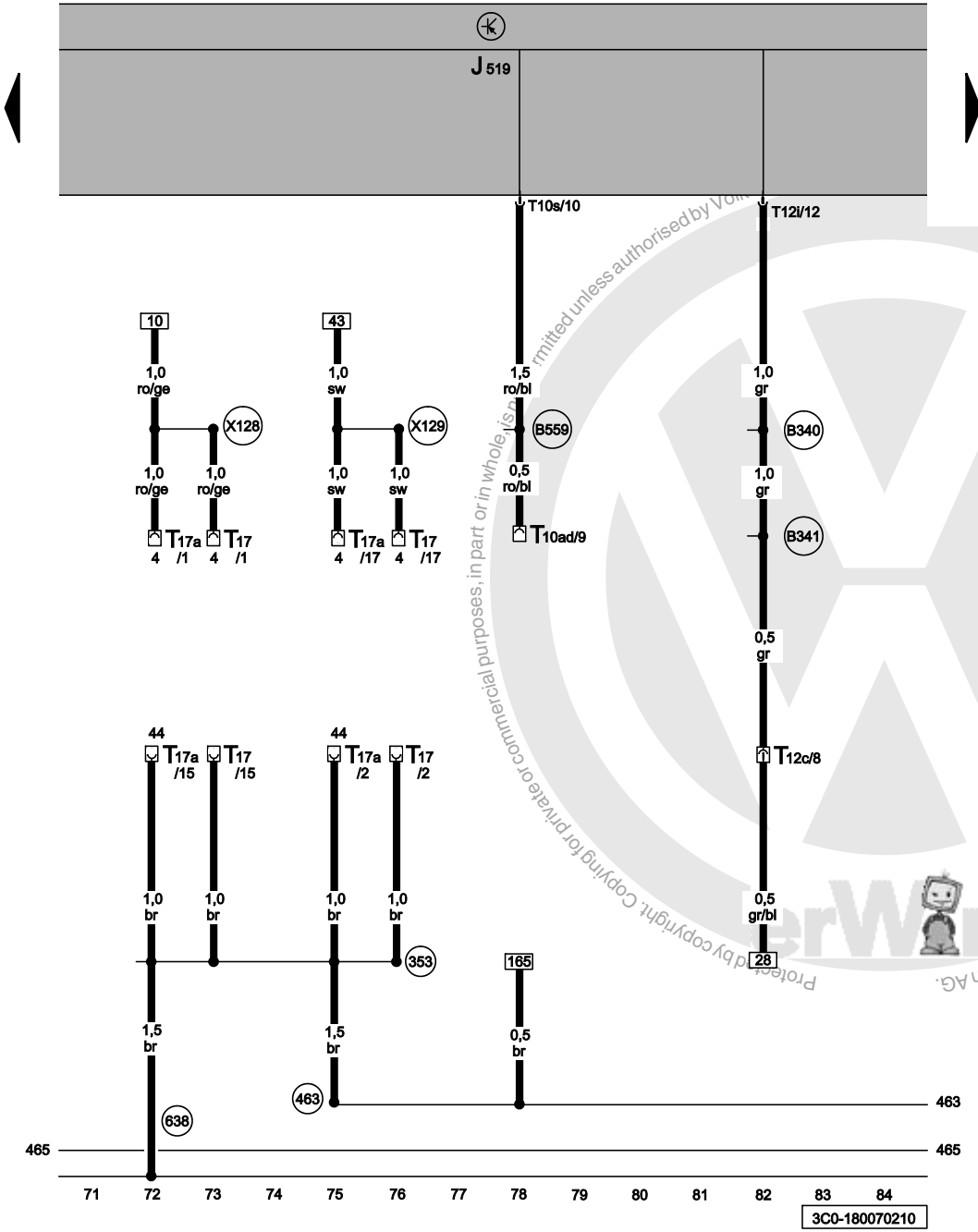


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Hands-free system button, two-way radio loudspeaker, two-way radio microphone, volume control for two-way radio, series resistor

E487	Hands-free system button
E591	Volume control for two-way radio
J519	Onboard supply control unit
L76	Button illumination bulb
N6	Series resistor
R25	Two-way radio loudspeaker
R122	2-way radio unit microphone
T2hq	2-pin connector
T2hr	2-pin connector
T4cu	4-pin connector, black, centre console
T6ci	6-pin connector
T17	17-pin connector, black, in glove compartment
T17a	17-pin connector, black, on right in luggage compartment
464	Earth connection 3, in taxi wiring harness
X69	Connection 1, in taxi wiring harness
X70	Connection 2, in taxi wiring harness
X155	Connection 5, in taxi wiring harness
X156	Connection 6, in taxi wiring harness
X157	Connection 7, in taxi wiring harness
X158	Connection 8, in taxi wiring harness
X170	Connection 18, in taxi wiring harness
*	Two-way radio connection

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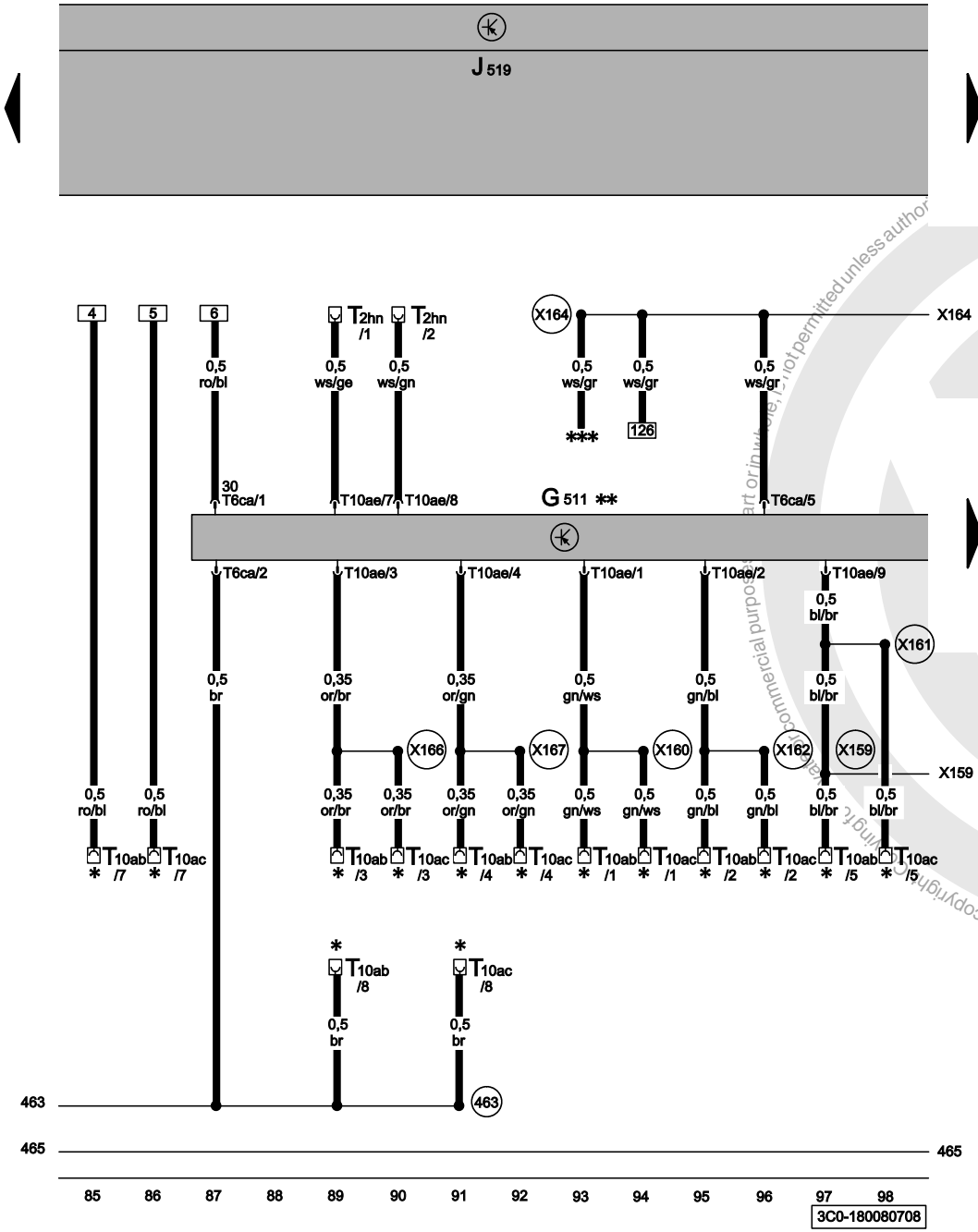


Two-way radio connection

J519	Onboard supply control unit
T10ad	10-pin connector, black, coupling point, left A-pillar
T10s	10-pin connector, black
T12c	12-pin connector, black, coupling point, left A-pillar
T12i	12-pin connector, black
T17	17-pin connector, black, in glove compartment
T17a	17-pin connector, black, on right in luggage compartment
353	Earth connection, in taxi wiring harness
463	Earth connection 2, in taxi wiring harness
638	Earth point, on right A-pillar
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B559	Connection 1 (30g), in main wiring harness
X128	Positive connection 4 (30a), in taxi wiring harness
X129	Positive connection 1 (15), in taxi wiring harness
*	Two-way radio connection

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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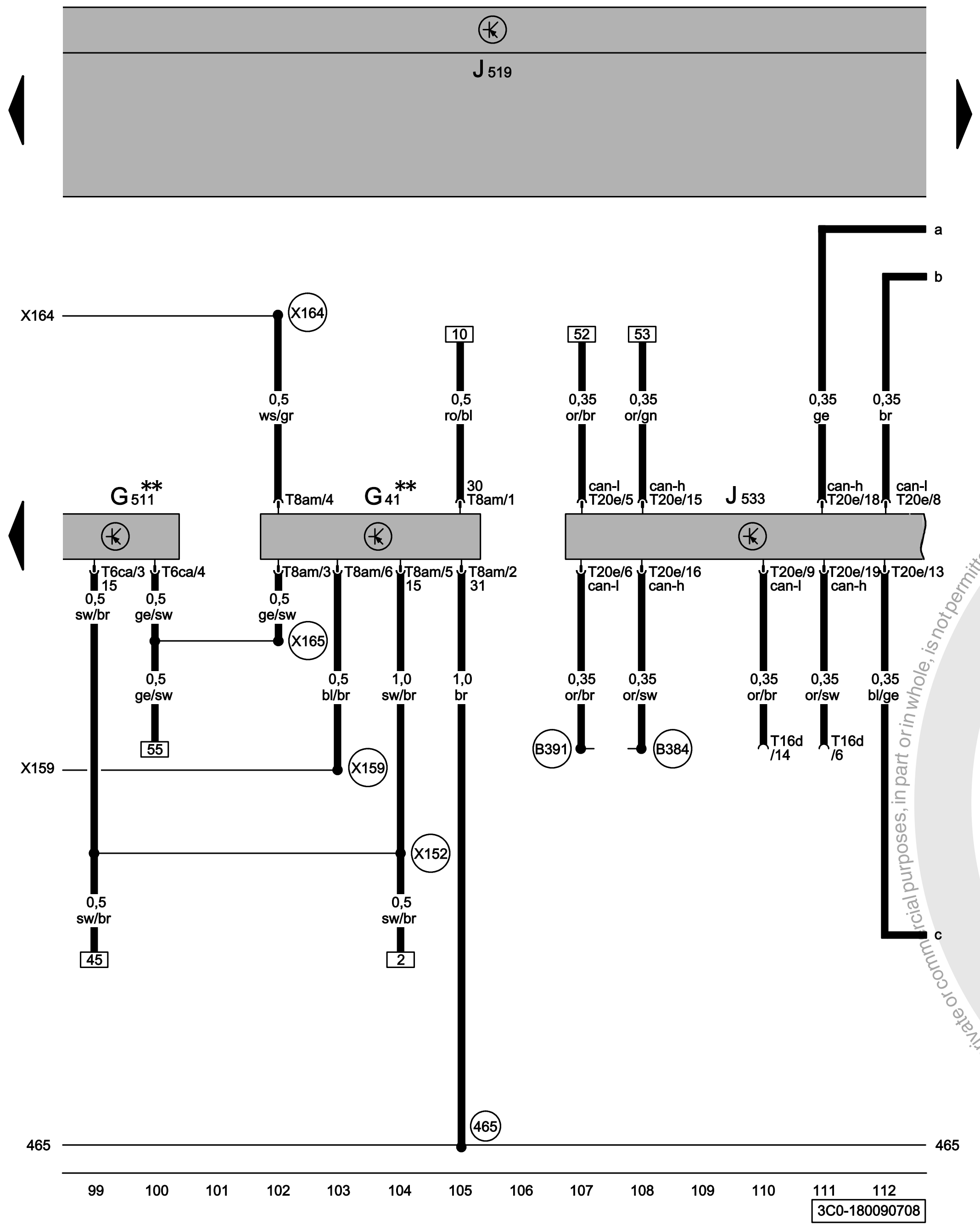


Mirror taxi meter

G511	Mirror taxi meter
J519	Onboard supply control unit
T2hn	2-pin connector, black, behind glove compartment
T6ca	6-pin connector
T10ab	10-pin connector, black, in glove compartment
T10ac	10-pin connector, black, on right in luggage compartment
T10ae	10-pin connector
463	Earth connection 2, in taxi wiring harness
X159	Connection 9, in taxi wiring harness
X160	Connection 10, in taxi wiring harness
X161	Connection 11, in taxi wiring harness
X162	Connection 12, in taxi wiring harness
X164	Connection 14, in taxi wiring harness
X166	Connection (low bus), in taxi wiring harness
X167	Connection (high bus), in taxi wiring harness
*	Data transmission
**	Component is not included in preparation
***	Wiring secured to dash panel insert

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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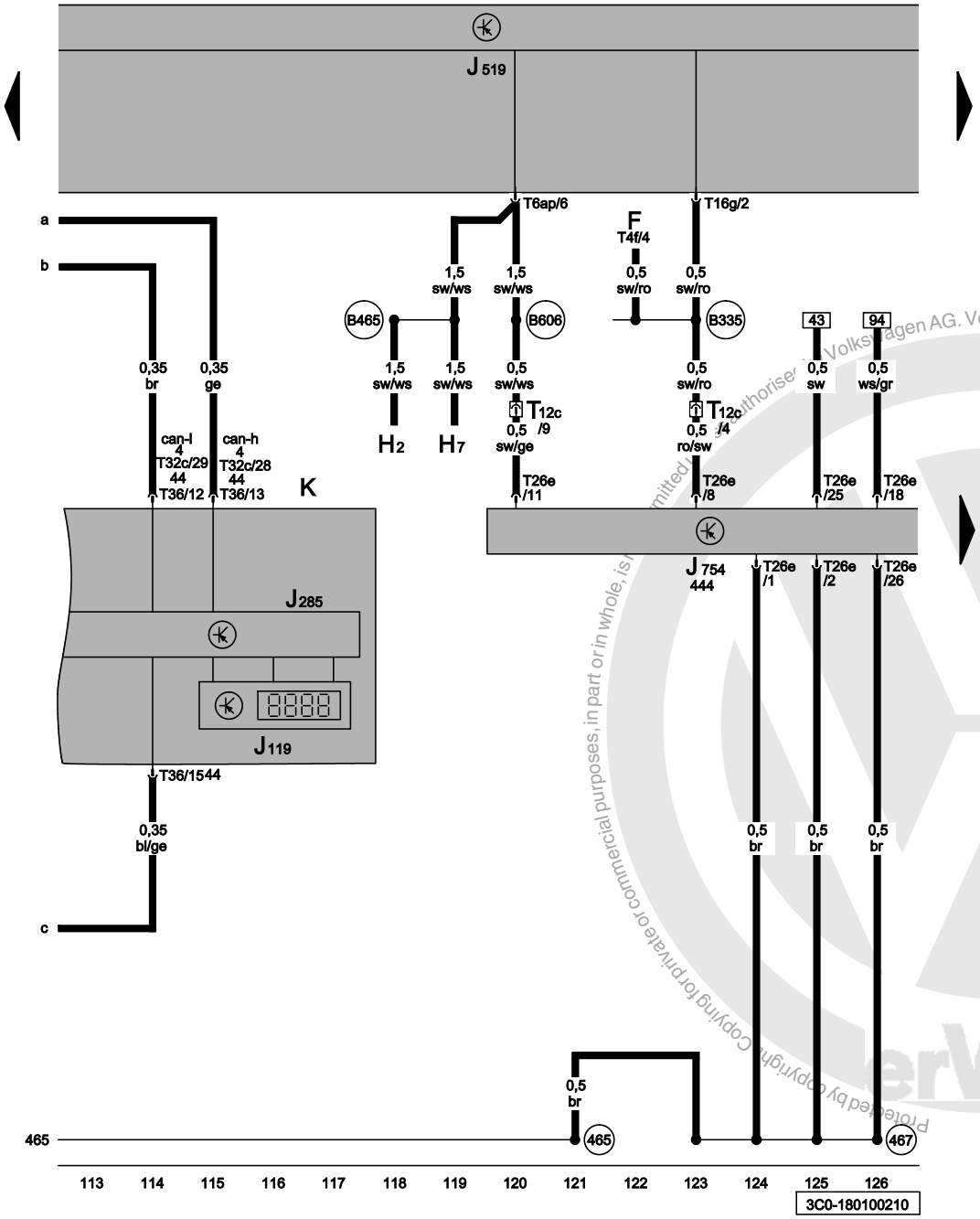


Taximeter, mirror taximeter, diagnostic interface

- G41 Taximeter
- G511 Mirror taxi meter
- J519 Onboard supply control unit
- J533 Data bus diagnosis interface
- T6ca 6-pin connector
- T8am 8-pin connector
- T16d 16-pin connector, self-diagnosis connection
- T20e 20-pin connector
- 465 Earth connection 4, in taxi wiring harness
- B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
- B391 Connection 2 (powertrain CAN bus, low), in main wiring harness
- X152 Positive connection 2 (15), in taxi wiring harness
- X159 Connection 9, in taxi wiring harness
- X164 Connection 14, in taxi wiring harness
- X165 Connection 15, in taxi wiring harness
- ** Component is not included in preparation

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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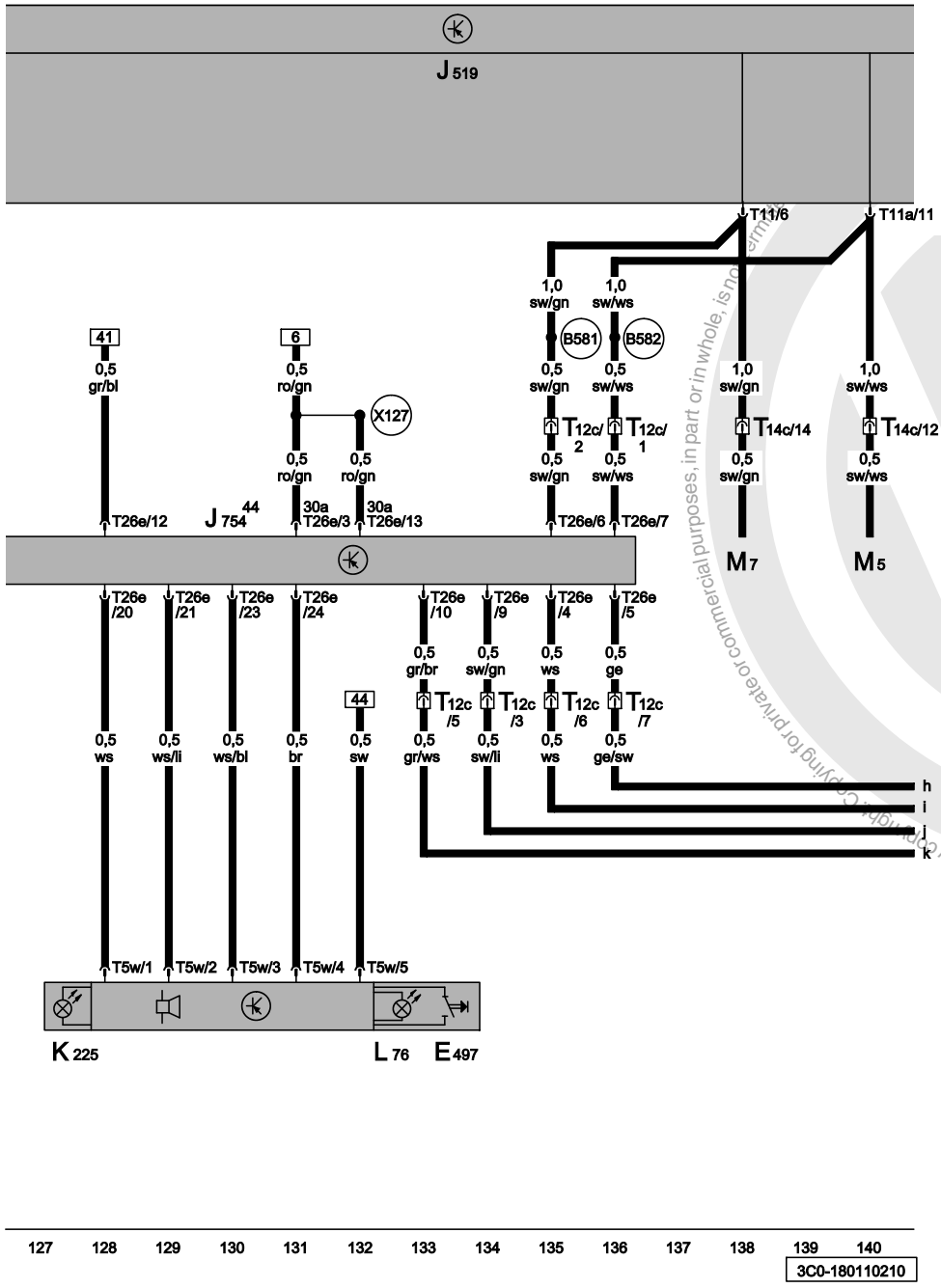


Accident data memory, dash panel insert

F	Reversing light switch
H2	Treble horn
H7	Bass horn
J119	Multifunction display
J754	Accident data memory
J285	Control unit with display in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T4f	4-pin connector
T6ap	6-pin connector
T12c	12-pin connector, black, coupling point, left A-pillar
T16g	16-pin connector
T26e	26-pin connector
T32c	32-pin connector
T36	36-pin connector
465	Earth connection 4, in taxi wiring harness
467	Earth connection 6, in taxi wiring harness
B335	Connection 1 (54), in main wiring harness
B465	Connection 1, in main wiring harness
B606	Connection 2, in interior wiring harness
*	Applicable from November 2008
**	Applicable to October 2008
***	Component is not included in preparation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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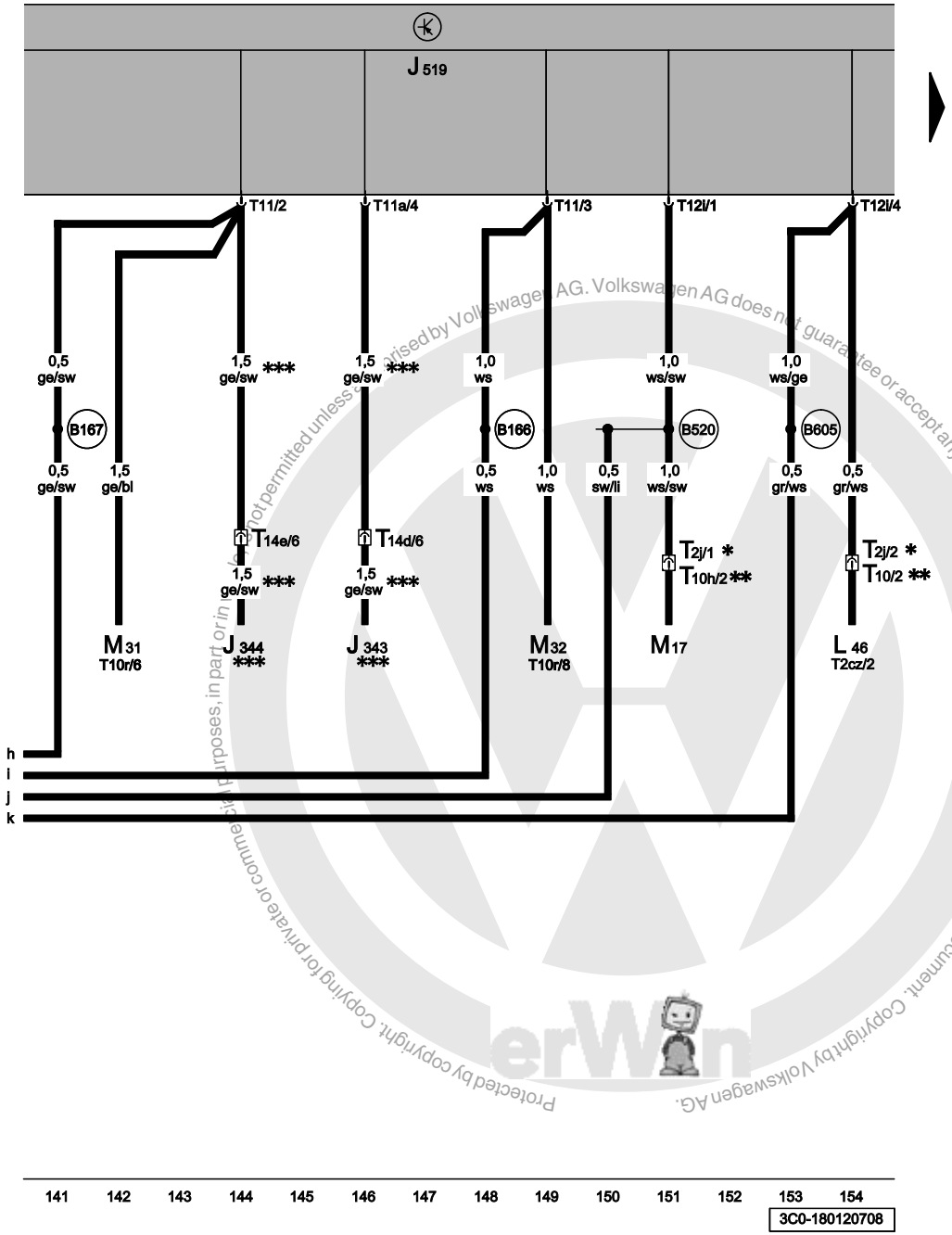


Accident data memory, accident data recorder button

E497	Accident data recorder button
J519	Onboard supply control unit
J754	Accident data memory
K225	Accident recorder warning lamp
L76	Button illumination bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
T5w	5-pin connector
T11	11-pin connector
T11a	11-pin connector, brown
T12c	12-pin connector, black, coupling point, left A-pillar
T14c	14-pin connector, front bumper coupling point, left
T26e	26-pin connector
B581	Positive connection (left indicator lamp), in interior wiring harness
B582	Positive connection (right indicator lamp), interior wiring harness
X127	Positive connection 3 (30a), in taxi wiring harness
**	Component is not included in preparation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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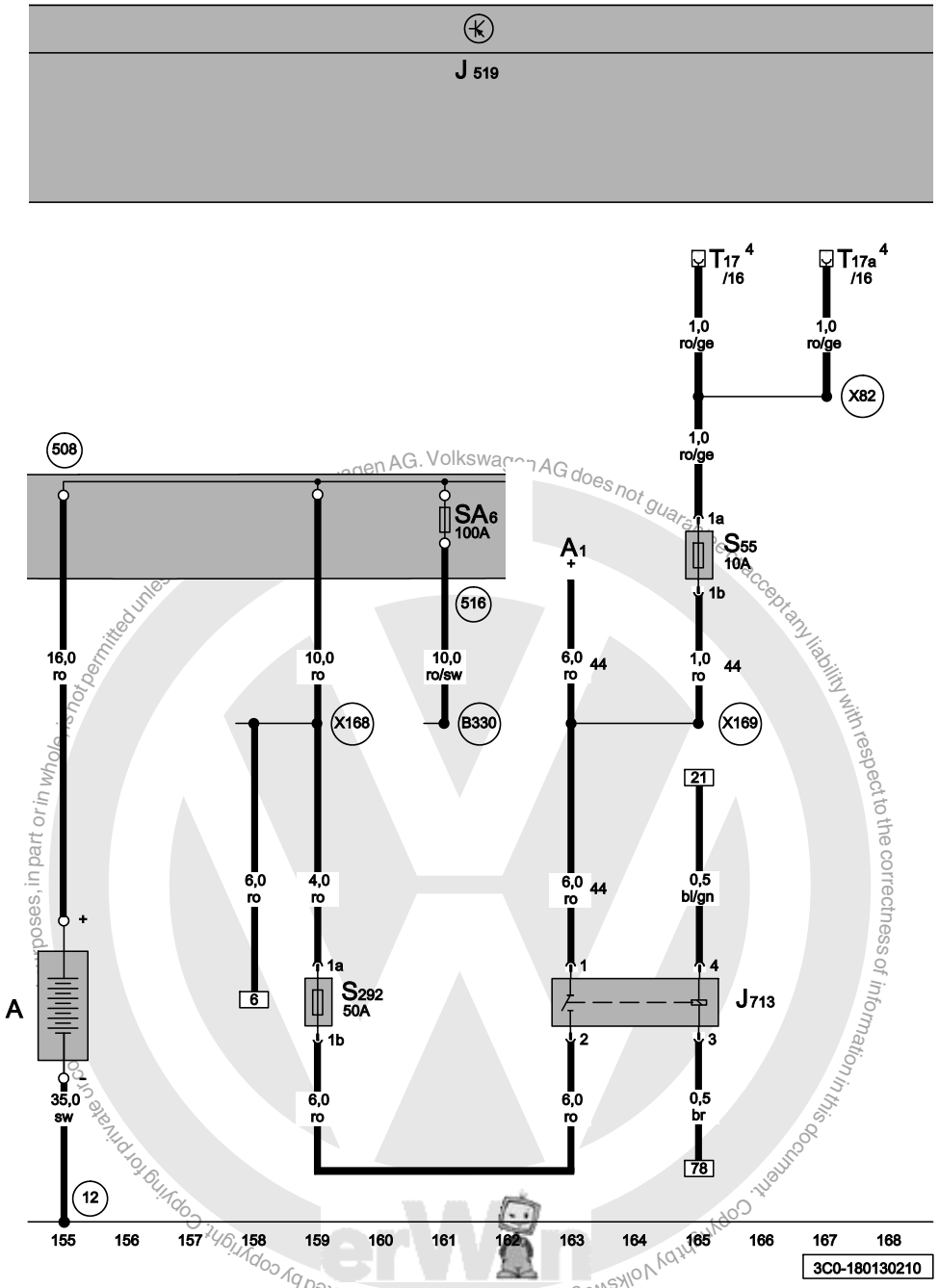


Connection on light system

J343	Left gas discharge bulb control unit
J344	Right gas discharge bulb control unit
J519	Onboard supply control unit
L46	Rear left fog light bulb
M17	Right reversing light bulb
M31	Right headlight dipped beam bulb
M32	Right headlight main beam bulb
T2j	2-pin connector
T2cz	2-pin connector
T10	10-pin connector, coupling point on left of rear lid
T10h	10-pin connector, coupling point, rear lid right
T10r	10-pin connector
T11	11-pin connector
T11a	11-pin connector
T12i	12-pin connector
T14d	14-pin connector, on left headlight
T14e	14-pin connector, on right headlight
B166	Connection (56a), in interior wiring harness
B167	Connection (56b), in interior wiring harness
B520	Connection (RL), in main wiring harness
B605	Connection 1, in interior wiring harness
*	Only saloon models
**	Only Variant
***	Only models with gas discharge lights

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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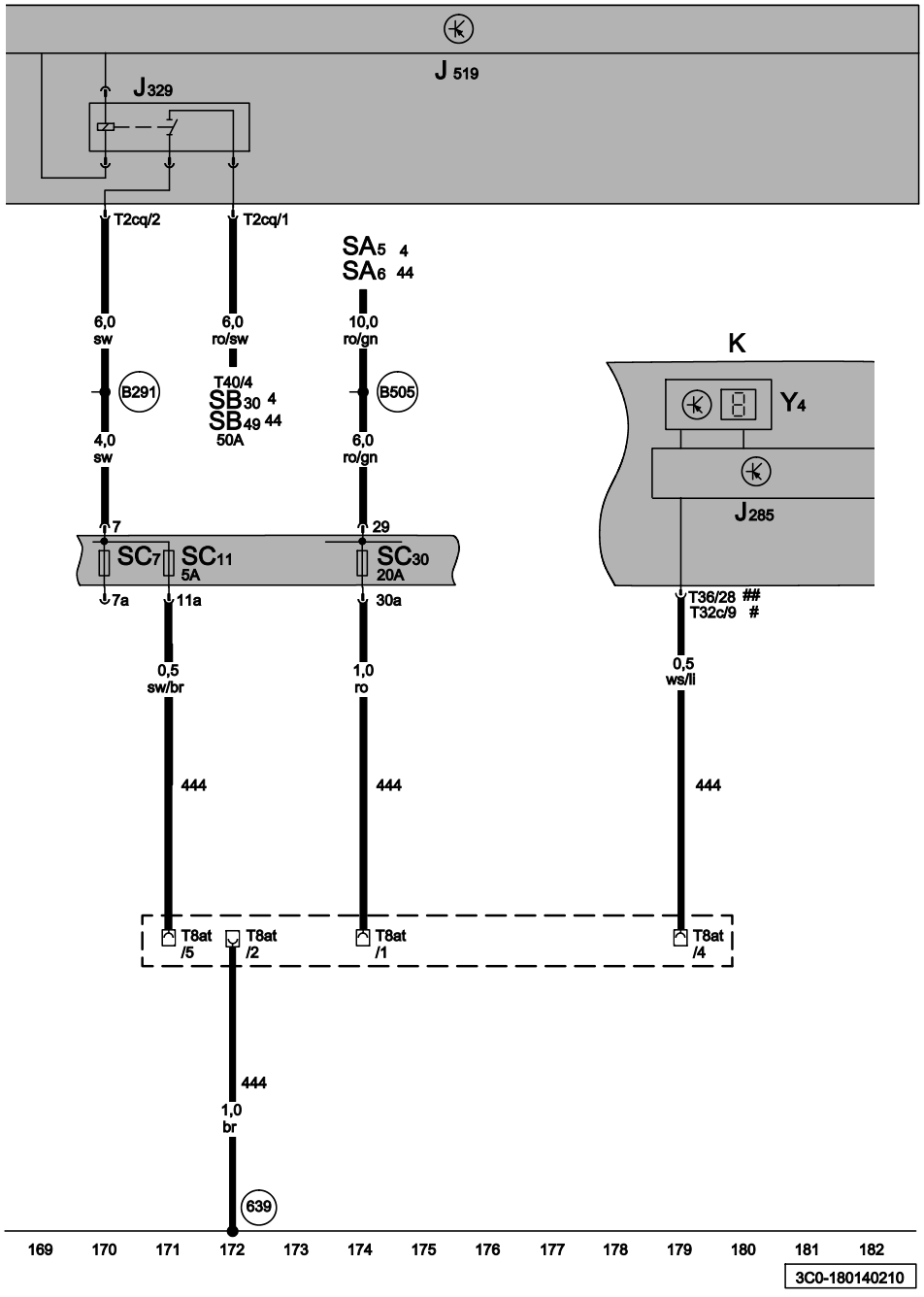


Battery, second battery, two-way radio fuse, second battery charging circuit relay

A	Battery
A1	Second battery
J519	Onboard supply control unit
J713	Second battery charging circuit relay
S55	Two-way radio fuse
S292	Special vehicle fuse 2
SA6	Fuse 6 on fuse holder A
T17	17-pin connector, black, in glove compartment
T17a	17-pin connector, black, on right in luggage compartment
12	Earth point, on left in engine compartment
508	Screw connection (30) on E-box
516	Threaded connection 6 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
X82	Positive connection 1 (30a), in taxi wiring harness
X168	Connection 16, in taxi wiring harness
X169	Connection 17, in taxi wiring harness
*	Two-way radio connection
**	Component is not included in preparation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Preparation for taximeter (South Europe), fuses, terminal 15 voltage supply relay, odometer display

J285	Control unit in dash panel insert
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
K	Dash panel insert
SA5	Fuse 5 on fuse holder A
SA6	Fuse 6 on fuse holder A
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
SC11	Fuse 11 on fuse holder C
SC30	Fuse 30 on fuse holder C
T2cq	2-pin connector
T8at	8-pin connector, preparation for taximeter (South Europe)
T32c	32-pin connector
T36	36-pin connector
T40	40-pin connector
Y4	Trip counter
639	Earth point, left A-pillar
B291	Connection 15 (15a), in main wiring harness
B505	Positive connection 9 (30a), in interior wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Preparation for taximeter (South Europe)
#	Applicable from November 2008
##	Applicable to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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Universal preparation for mobile telephone (UTP) - Low

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

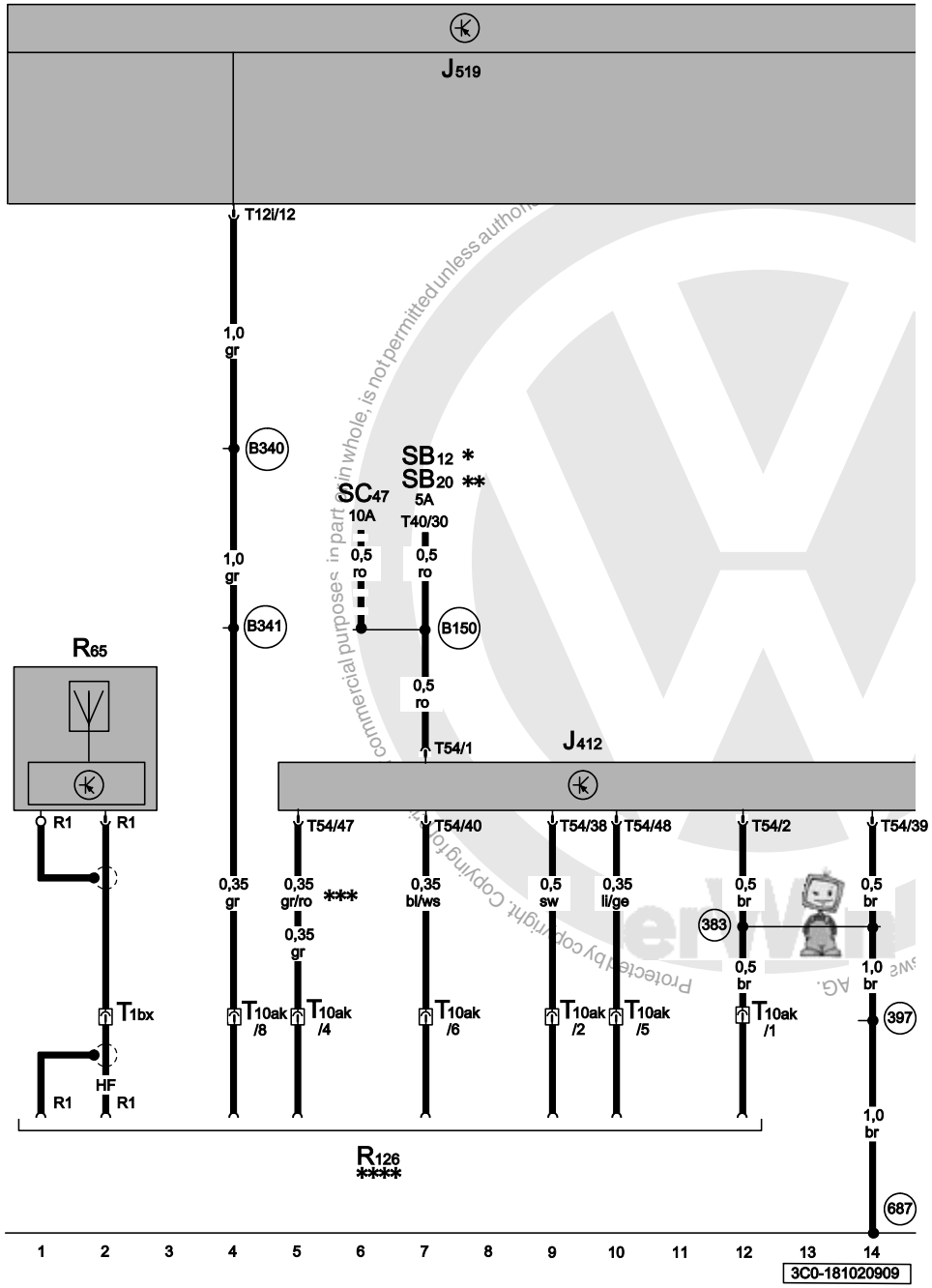
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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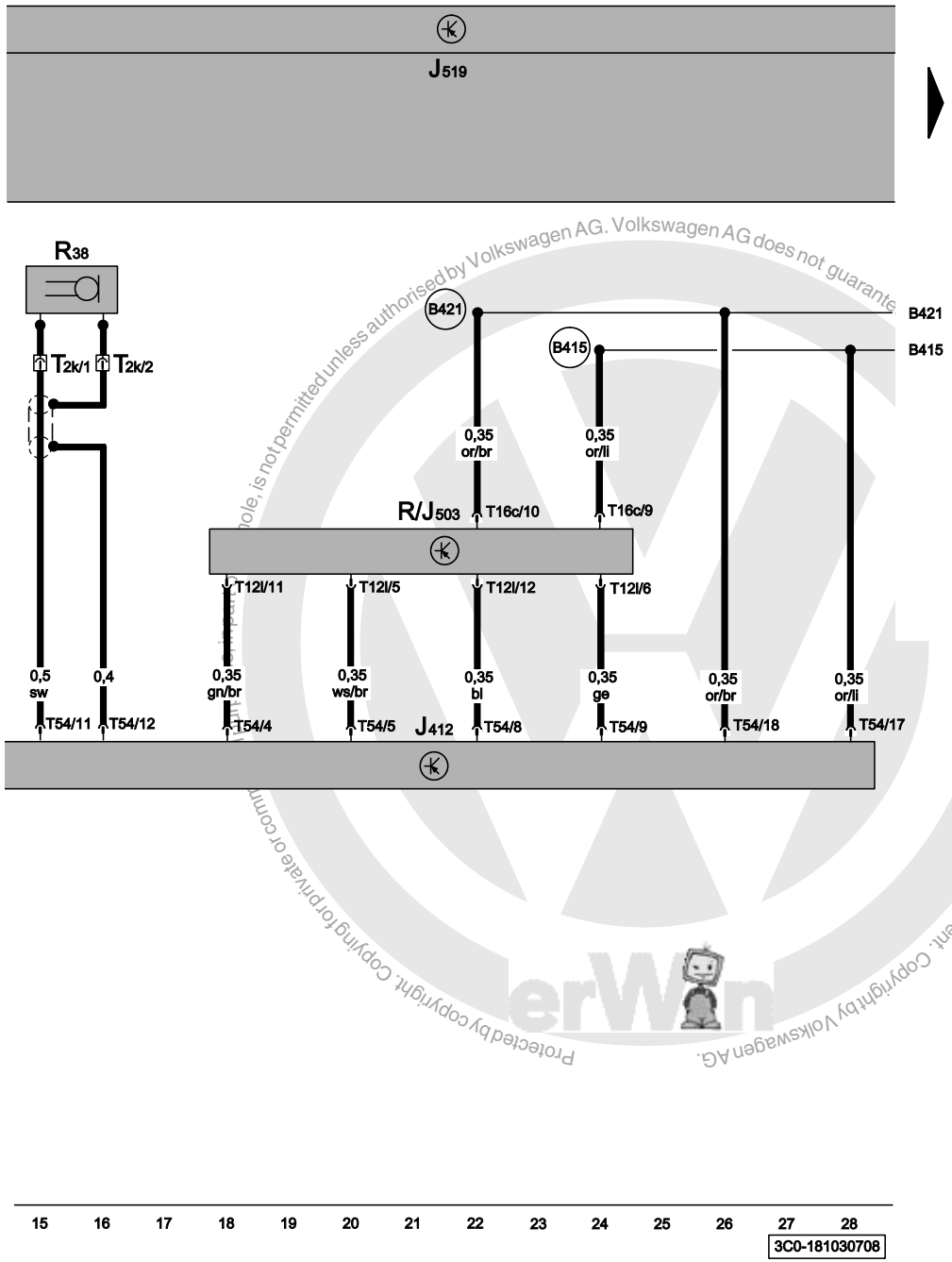


Control unit for mobile telephone operating electronics, telephone aerial, telephone holder

J412	Control unit for mobile telephone operating electronics
J519	Onboard supply control unit
R1	Aerial connection
R65	Telephone aerial
R126	Telephone holder
SB12	Fuse 12 on fuse holder B
SB20	Fuse 20 on fuse holder B
SC47	Fuse 47 on fuse holder C
T1bx	Single connector, behind dash panel, near centre console
T10ak	10-pin connector, behind dash panel, near centre console
T12i	12-pin connector
T40	40-pin connector
T54	54-pin connector
383	Earth connection 18, in main wiring harness
397	Earth connection 32, in main wiring harness
687	Earth point 1, on centre tunnel
B150	Positive connection 2 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Applicable from November 2008
****	Mounting for charging unit
---	Only models with stop/start system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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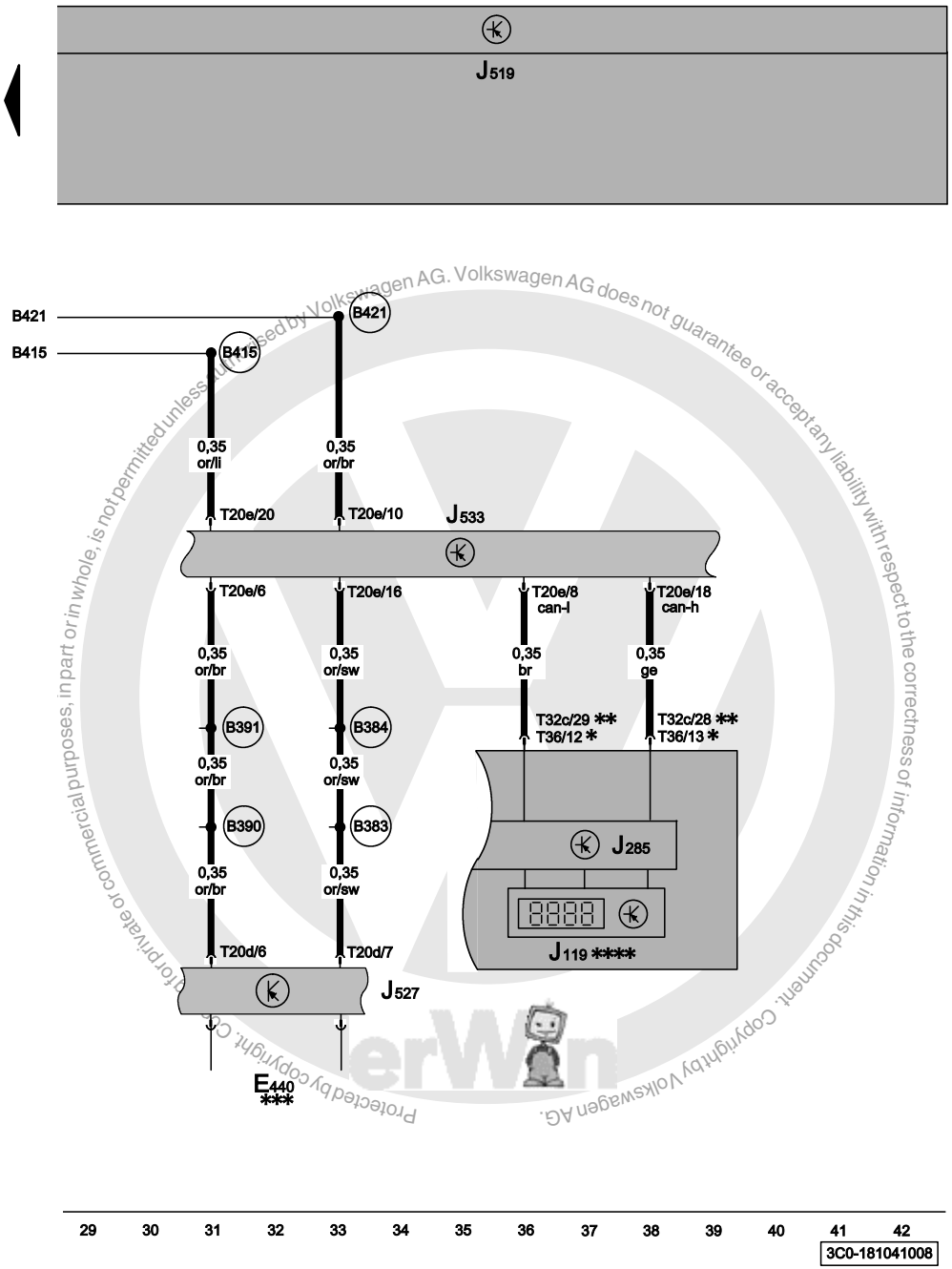


Control unit for mobile telephone operating electronics, telephone microphone, control unit with display for radio and navigation system

J412	Control unit for mobile telephone operating electronics
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R38	Telephone microphone
T2k	2-pin connector, black
T12l	12-pin connector
T16c	16-pin connector
T54	54-pin connector
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Data bus diagnosis interface, control unit in dash panel insert, multifunction display, multifunction buttons on left in steering wheel

E440	Multifunction buttons on left in steering wheel
J119	Multifunction display
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
T20d	20-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Applicable to October 2008
**	Applicable from November 2008
***	Only models with multifunction display ⇒ CFD multifunction steering wheel
****	Only models with multifunction display

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Universal preparation for mobile telephone (UTP) - Premium

⇒ **Bluetooth**

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

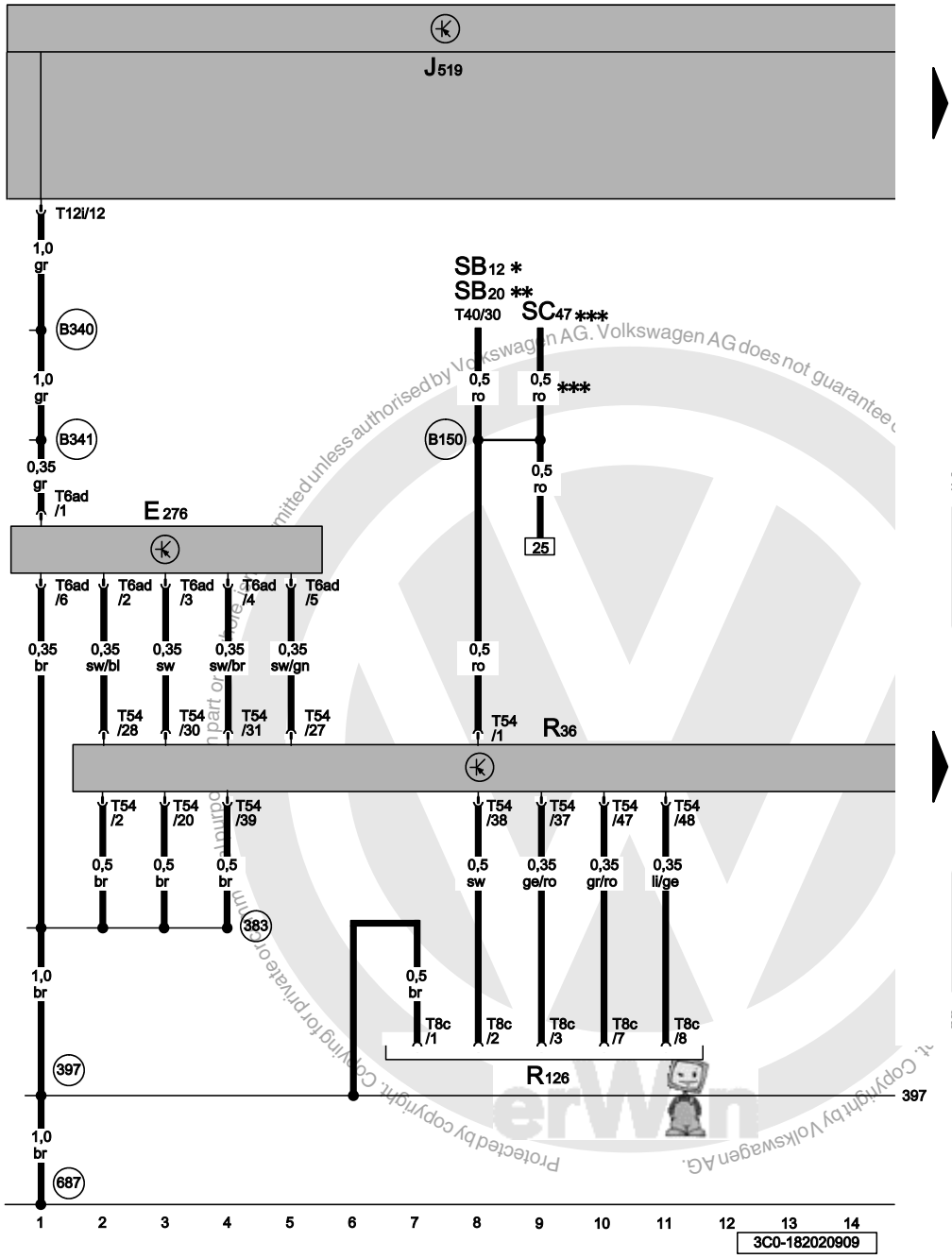
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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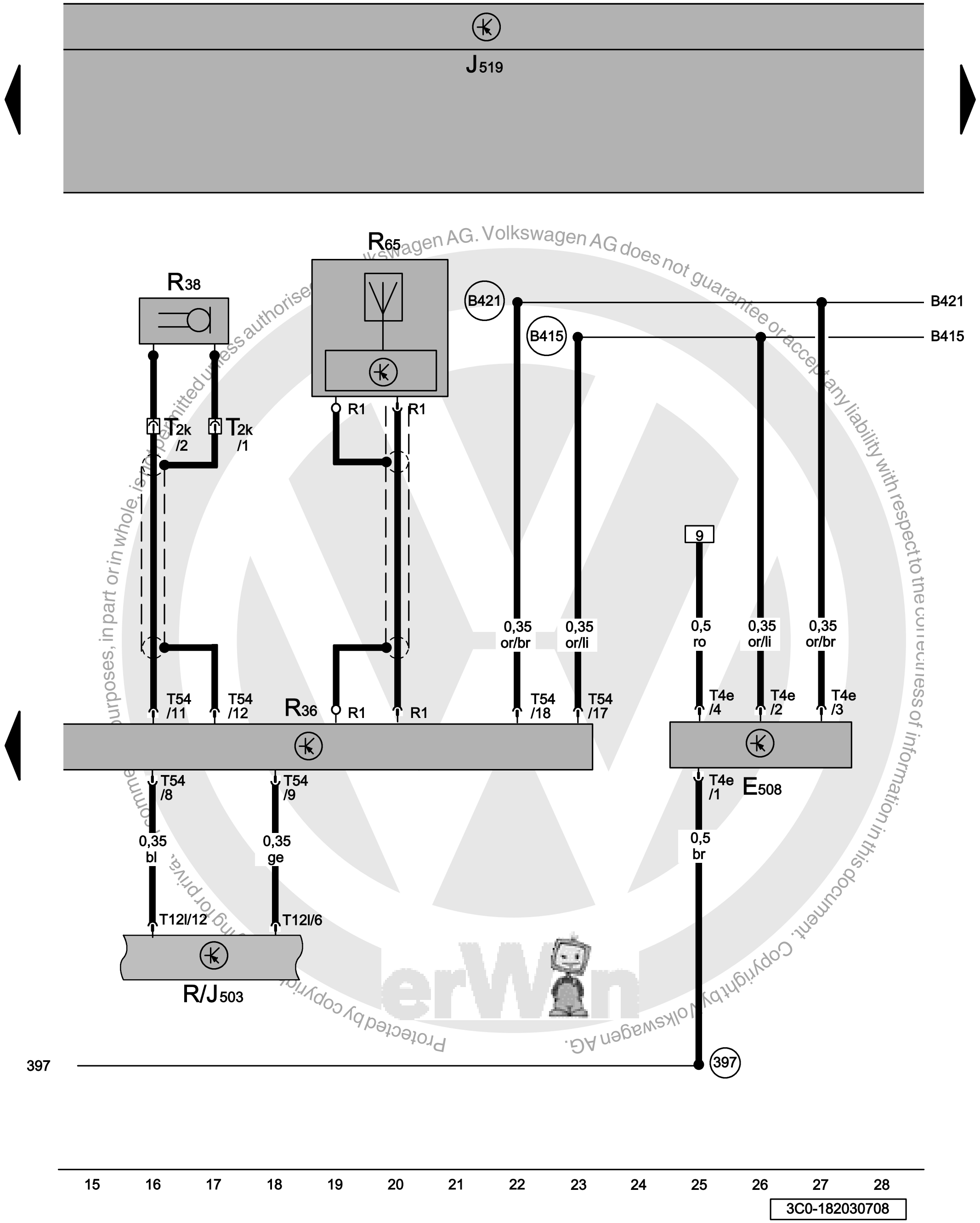


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Telephone transmitter and receiver unit, emergency assistance call button, telephone holder

E276	Emergency assistance call button
J519	Onboard supply control unit
R36	Telephone transmitter and receiver unit
R126	Telephone holder
SB12	Fuse 12 on fuse holder B
SB20	Fuse 20 on fuse holder B
SC47	Fuse 47 on fuse holder C
T6ad	6-pin connector
T8c	8-pin connector
T12i	12-pin connector, black
T40	40-pin connector, under E-box, in engine compartment
T54	54-pin connector
383	Earth connection 18, in main wiring harness
397	Earth connection 32, in main wiring harness
687	Earth point 1, on centre tunnel
B150	Positive connection 2 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Only models with stop/start system

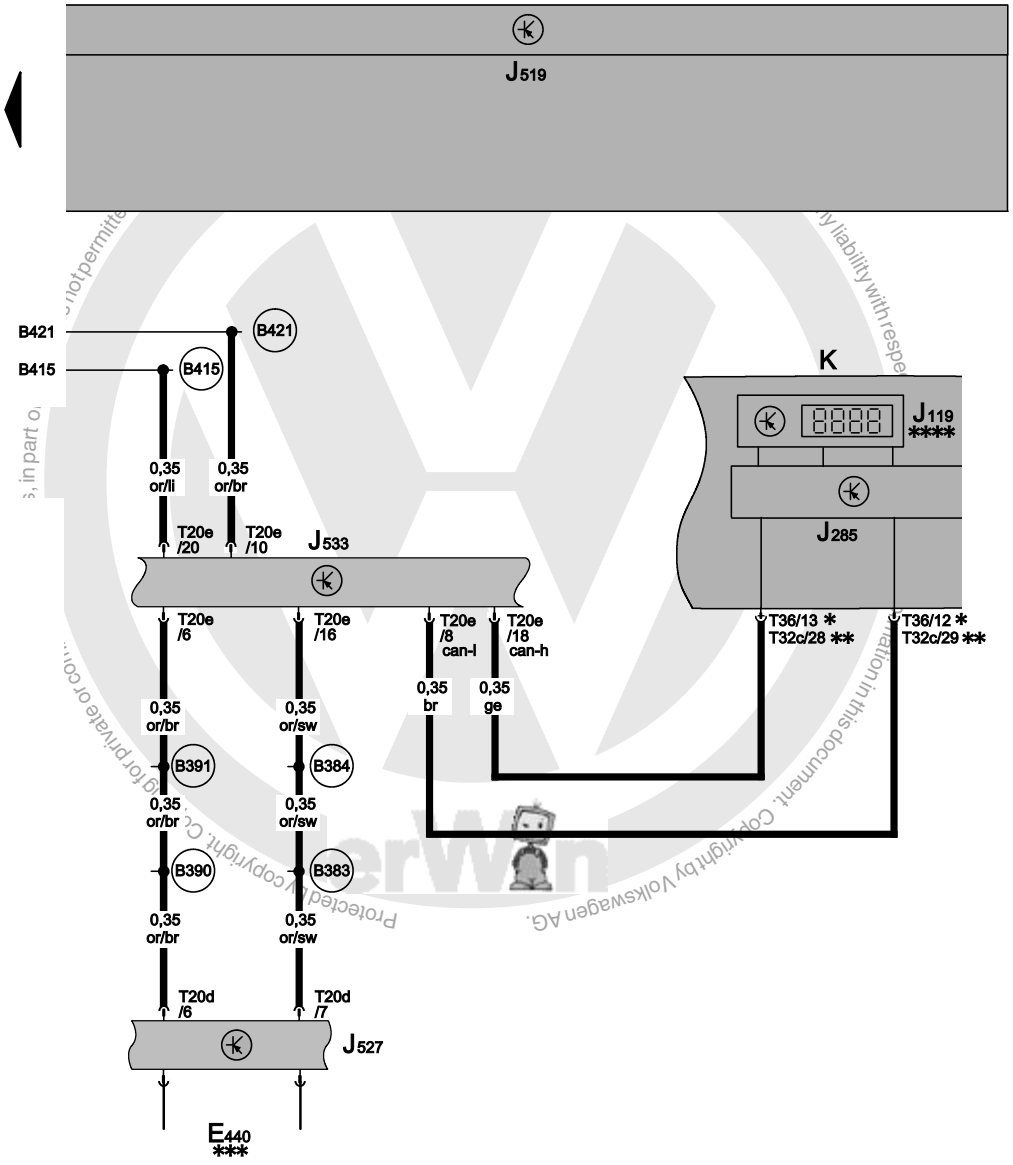
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Telephone transmitter and receiver unit, operating unit for preparation for mobile telephone, telephone microphone, telephone aerial

E508	Operating unit for preparation for mobile telephone
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R	Radio
R1	Aerial connection
R36	Telephone transmitter and receiver unit
R38	Telephone microphone
R65	Telephone aerial
T2k	2-pin connector
T4e	4-pin connector, brown
T12l	12-pin connector, black
T54	54-pin connector
397	Earth connection 32, in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Data bus diagnosis interface, multifunction display, multifunction buttons on left in steering wheel

E440	Multifunction buttons on left in steering wheel
J119	Multifunction display
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J527	Steering column electronics control unit
J533	Data bus diagnosis interface
K	Dash panel insert
T20d	20-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Applicable to October 2008
**	Applicable from November 2008
***	Only models with multifunction steering wheel, see CFD multifunction steering wheel
****	Only models with multifunction display

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Seat adjustment with memory function, driver side

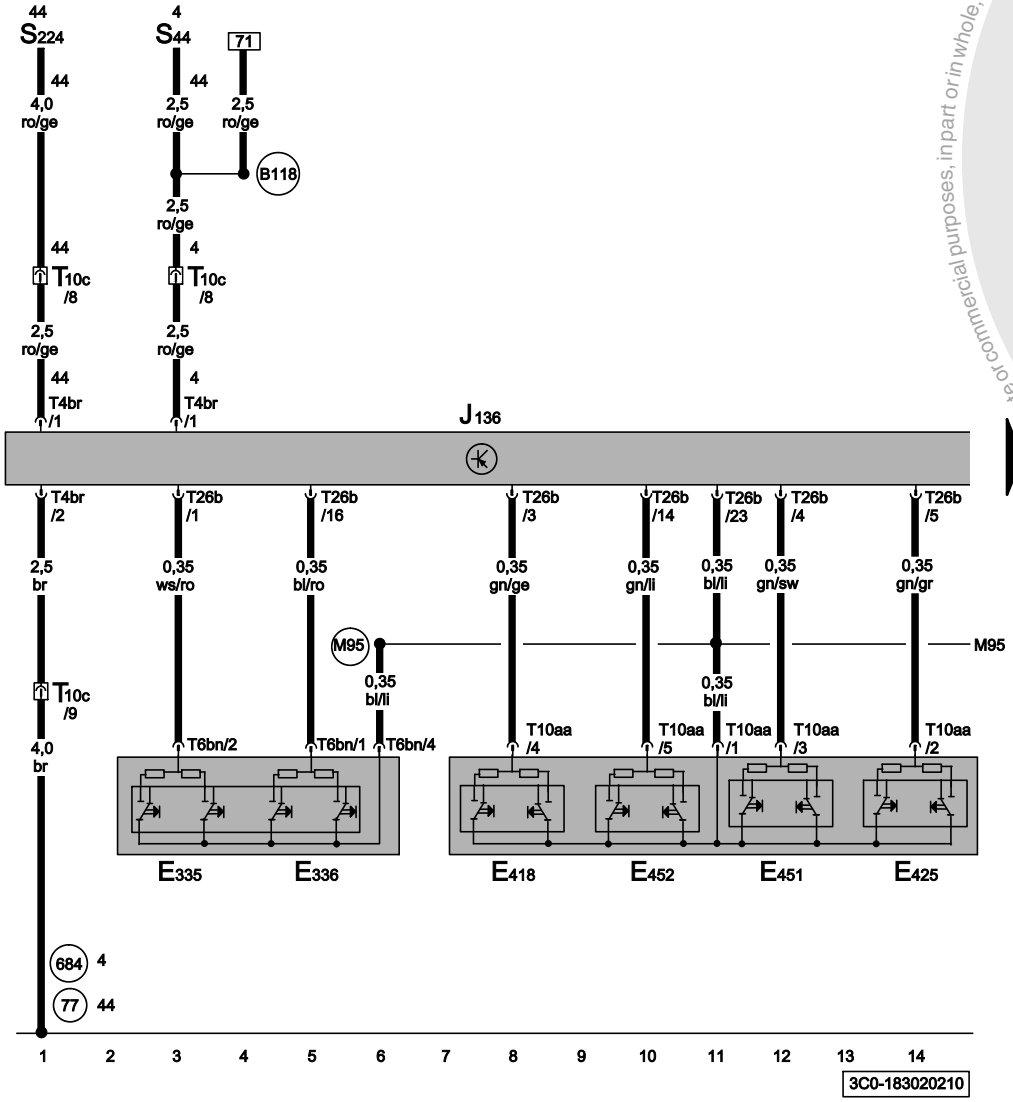
⇒ **Seat adjustment, electrical, front passenger side**
⇒ **Massage function**
From May 2007

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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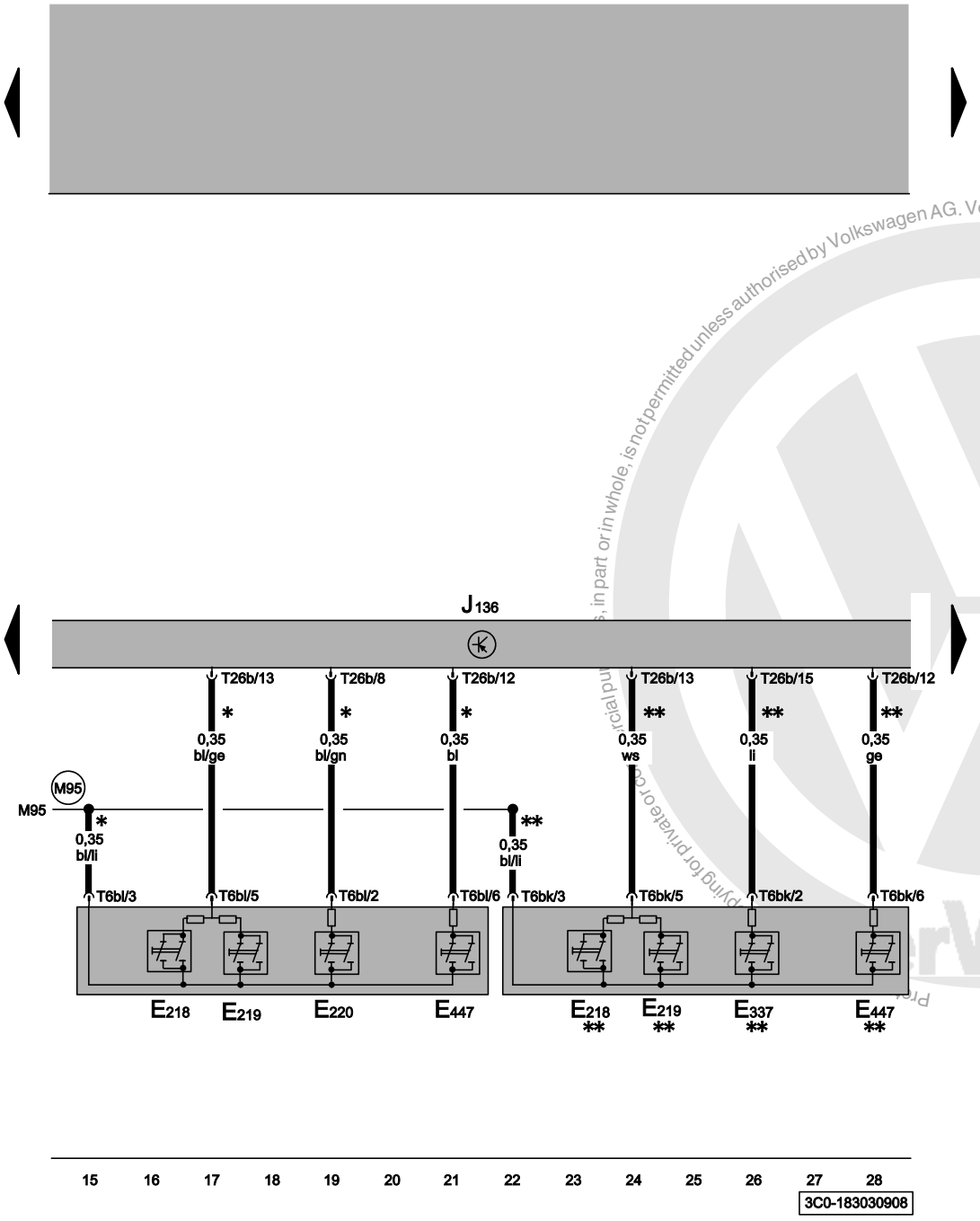


Control unit for seat adjustment and steering column adjustment with memory function, driver seat adjustment operating unit

E335	Lumbar support height adjustment button
E336	Lumbar support longitudinal adjustment button
E418	Seat longitudinal adjustment button
E425	Backrest adjustment button
E451	Seat front height adjustment button
E452	Seat rear height adjustment button
J136	Seat and steering column adjustment control unit with memory
S44	Driver seat adjustment thermal fuse 1, on left under dash panel
S224	Fuse in fuse holder on left under dash panel
T4br	4-pin connector, black
T6bn	6-pin connector, blue
T10c	10-pin connector, black, coupling point driver side, under seat
T10aa	10-pin connector
T26b	26-pin connector, white
77	Earth point, lower part of left B-pillar
684	Earth point, on front of left side member
B118	Connection (driver side seat adjustment), in interior wiring harness
M95	Connection 3, seat adjustment wiring harness
*	Applicable from May 2008
**	Applicable to April 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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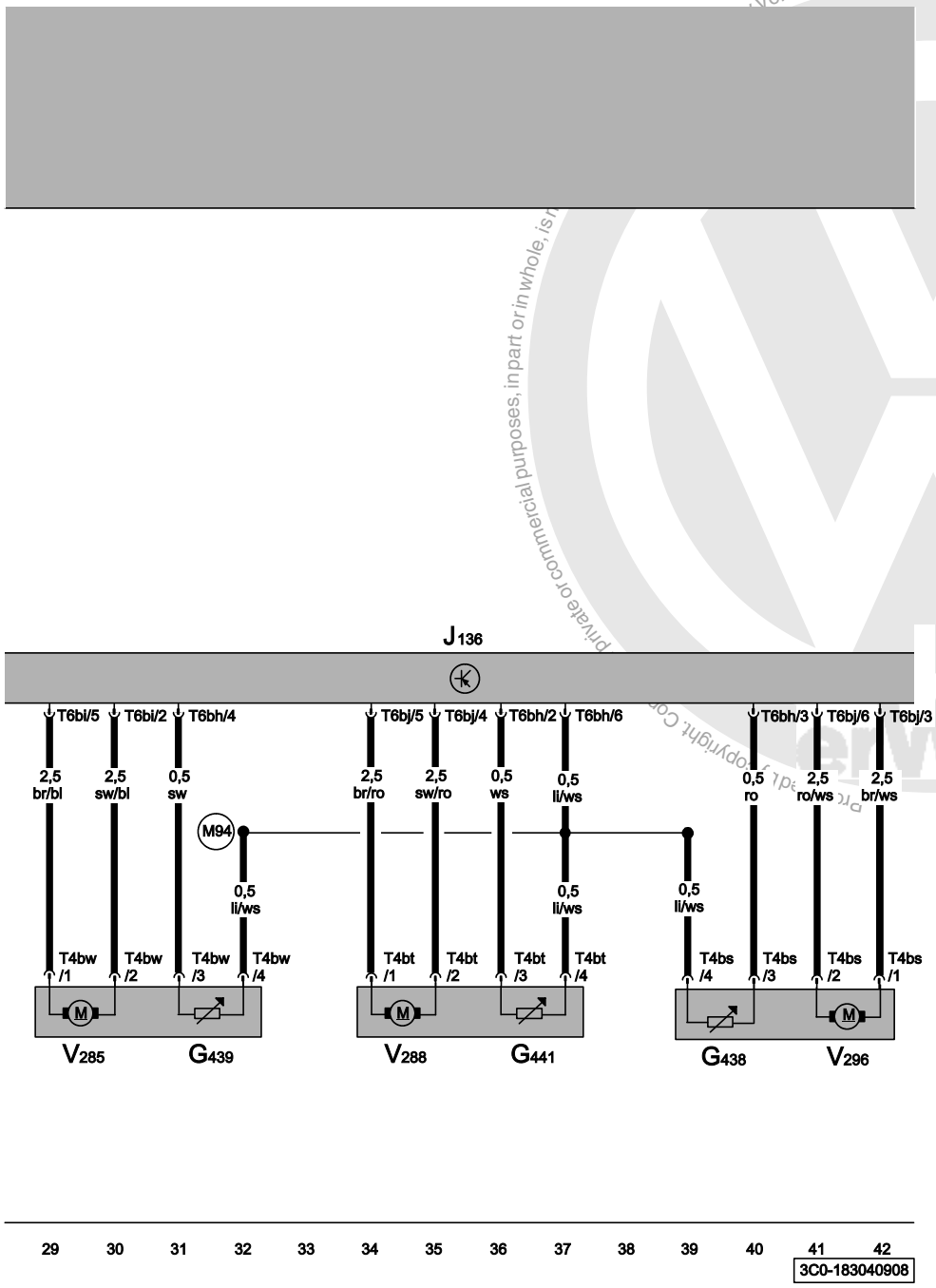
Seat and steering column adjustment control unit with memory, seat memory position button 1-3

E218	Seat memory position button 1
E219	Seat memory position button 2
E220	Seat memory position button 3
E337	Massage function button
E447	Seat position memory button
J136	Seat and steering column adjustment control unit with memory
T6bk	6-pin connector, black
T6bl	6-pin connector, black
T26b	26-pin connector, white
M95	Connection 3, seat adjustment wiring harness
*	Only seats with no massage function
**	Only seats with massage function

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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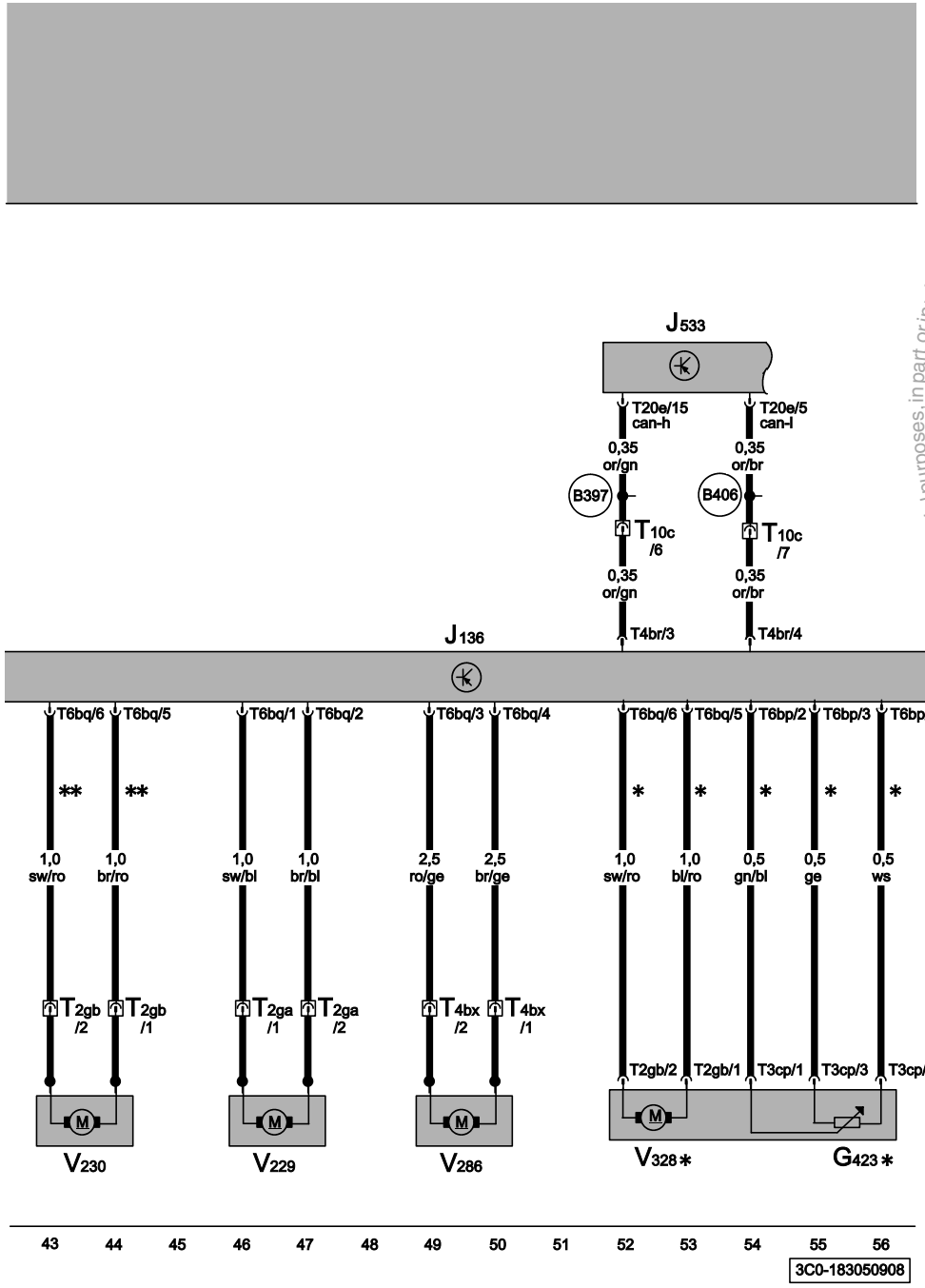
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Seat and steering column adjustment control unit with memory, seat height adjustment sender

G438	Seat front height adjustment sender
G439	Seat rear height adjustment sender
G441	Seat longitudinal adjustment sender
J136	Seat and steering column adjustment control unit with memory
T4bs	4-pin connector, black
T4bt	4-pin connector, black
T4bw	4-pin connector, black
T6bh	6-pin connector, brown
T6bi	6-pin connector, blue
T6bj	6-pin connector, black
V285	Seat rear height adjustment motor
V288	Seat longitudinal adjustment motor
V296	Seat front height adjustment motor
M94	Connection 2, seat adjustment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

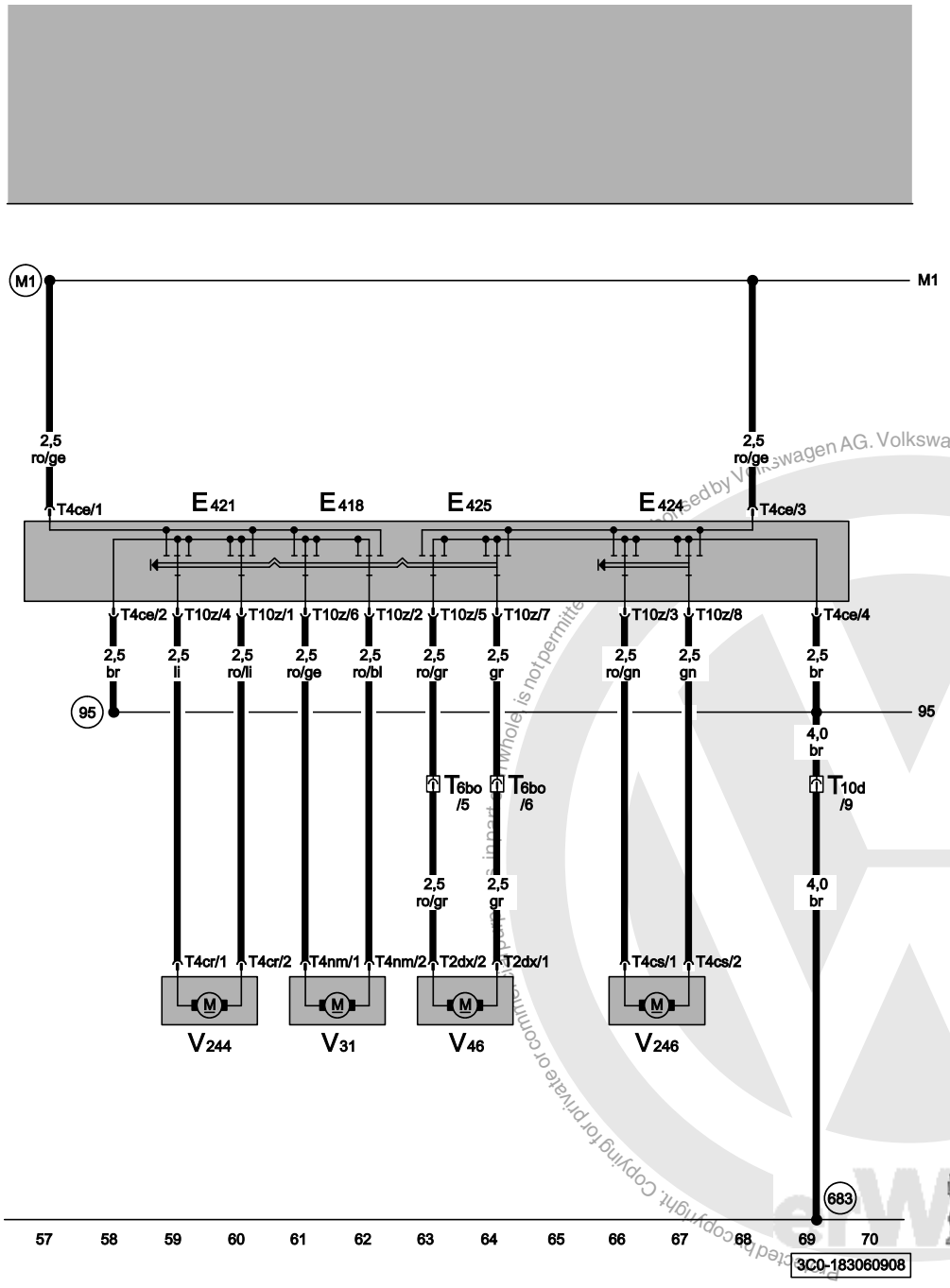


Seat and steering column adjustment control unit with memory, lumbar support height adjustment motor

G423	Potentiometer for height adjustment of lumbar support with massage function
J136	Seat and steering column adjustment control unit with memory
J533	Data bus diagnosis interface
T2ga	2-pin connector, black, in seat
T2gb	2-pin connector, black, in seat
T3cp	3-pin connector, black, in seat
T4br	4-pin connector, black
T4bx	4-pin connector, black
T6bp	6-pin connector, blue
T6bq	6-pin connector, white
T10c	10-pin connector, black, coupling point driver side, under seat
T20e	20-pin connector
V229	Lumbar support height adjustment motor
V230	Lumbar support longitudinal adjustment motor
V286	Backrest adjustment motor
V328	Lumbar support massage function pump
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only seats with massage function
**	Only seats with no massage function

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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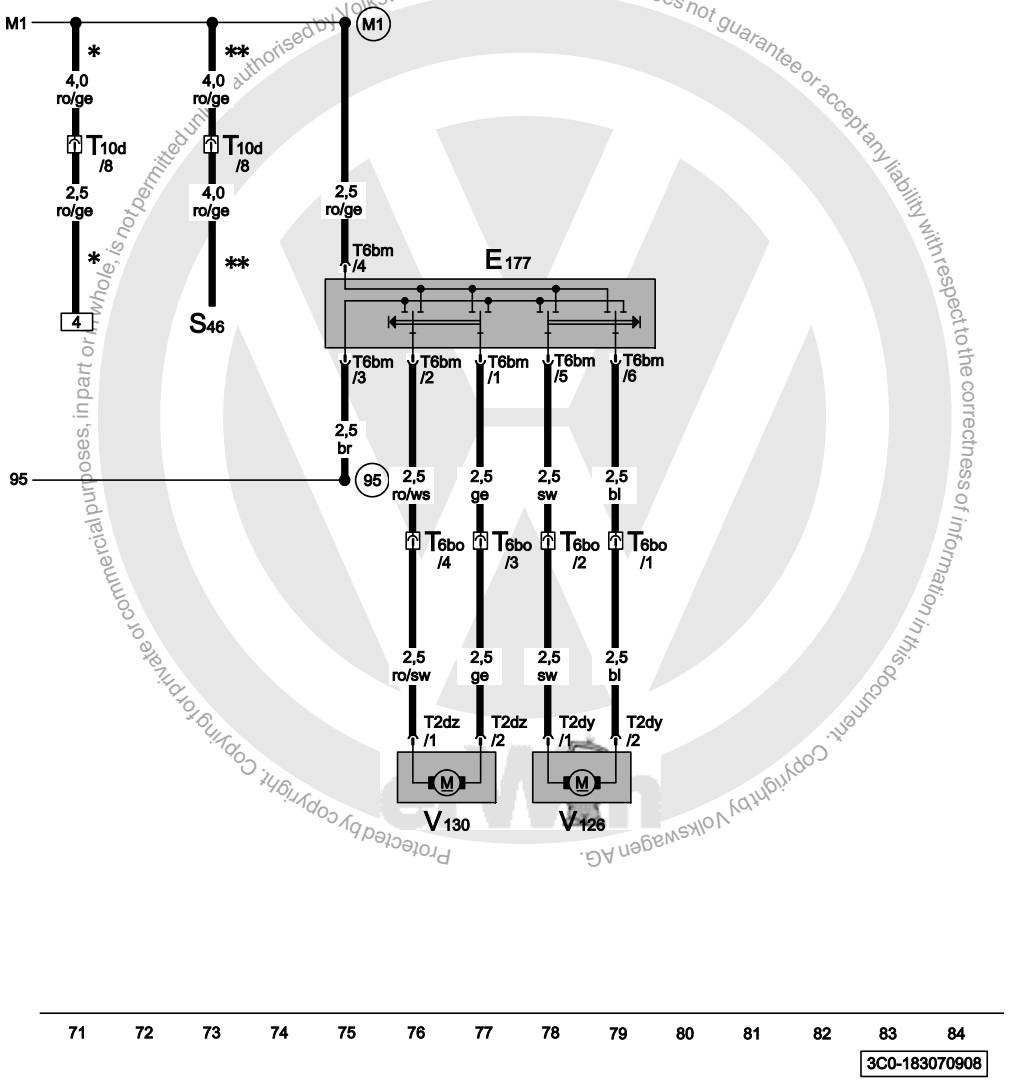


Longitudinal adjustment for front passenger seat, height adjustment for front passenger seat, backrest adjustment for front passenger seat, tilt angle adjustment

E418	Seat longitudinal adjustment button
E421	Rake adjustment button
E424	Seat height adjustment button
E425	Backrest adjustment button
T2dx	2-pin connector
T4ce	4-pin connector
T4cr	4-pin connector
T4cs	4-pin connector
T4nm	4-pin connector, black
T6bo	6-pin connector
T10d	10-pin connector, black, coupling point front passenger side, under seat
T10z	10-pin connector
V31	Front passenger seat longitudinal adjustment motor
V46	Front passenger seat backrest adjustment motor
V244	Front passenger seat rake adjustment motor
V246	Front passenger seat height adjustment motor
95	Earth connection 1, in seat adjustment wiring harness
683	Earth point on front of right side member
M1	Positive connection 1 (30), in seat adjustment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Front passenger seat lumbar support adjustment switch

E177	Front passenger seat lumbar support adjustment switch
S46	Front passenger seat adjustment thermal fuse 1
T2dy	2-pin connector
T2dz	2-pin connector
T6bm	6-pin connector
T6bo	6-pin connector
T10d	10-pin connector, black, coupling point front passenger side, under seat
V126	Front passenger seat lumbar support longitudinal adjustment motor
V130	Front passenger seat lumbar support height adjustment motor
(95)	Earth connection 1, in seat adjustment wiring harness
(M1)	Positive connection 1 (30), in seat adjustment wiring harness
*	Applicable from May 2008
**	Applicable to April 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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Seat heating

⇒ **Trendline seat**

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

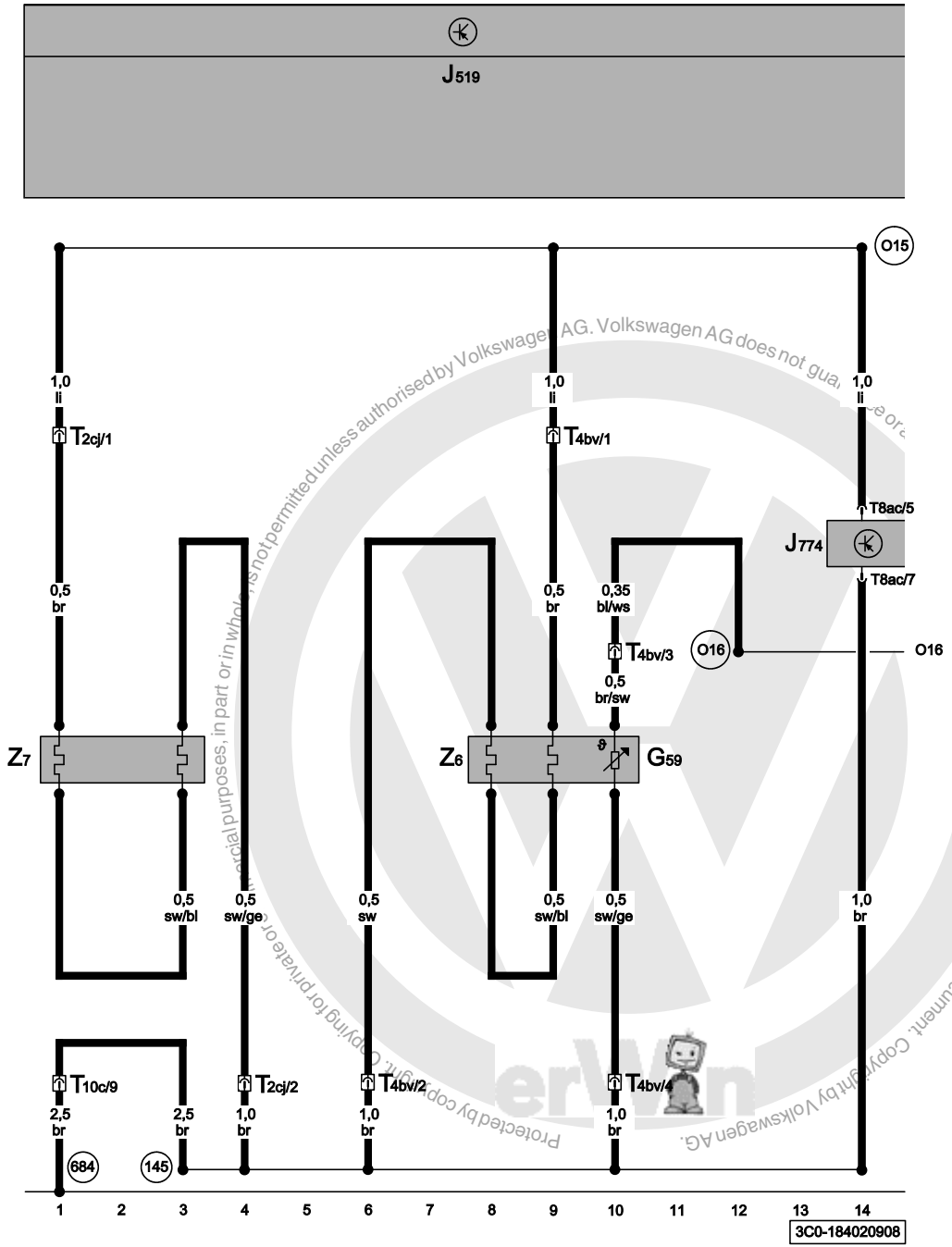
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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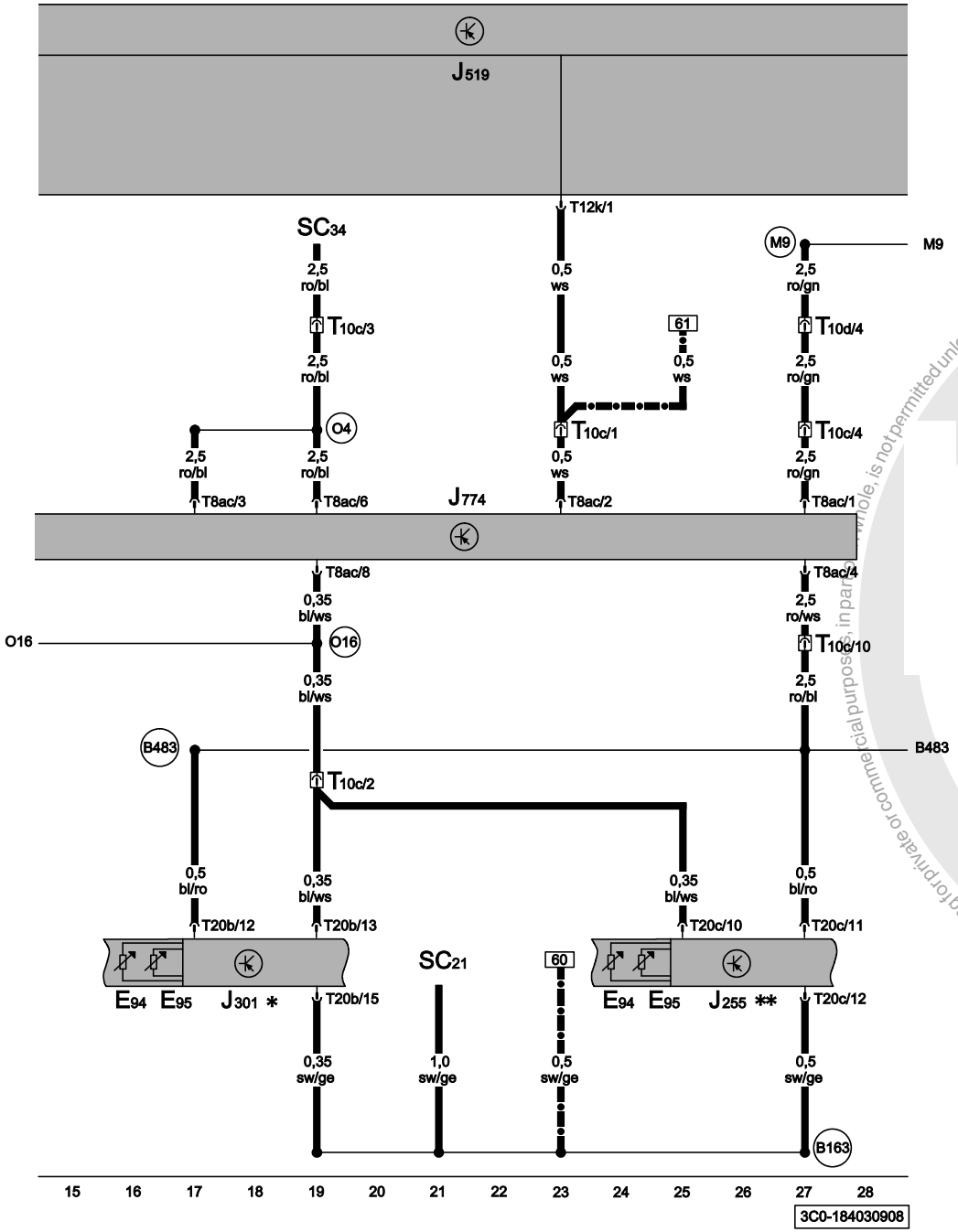


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Heated driver seat, heated driver seat backrest, heated front seats control unit

G59	Driver seat temperature sensor
J519	Onboard supply control unit
J774	Heated front seats control unit
T2cj	2-pin connector
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
Z6	Heated seat cushion for driver seat
Z7	Heated backrest for driver seat
145	Earth connection 3, in seat heating wiring harness
684	Earth point on front of left side member
O15	Connection 4, in seat heating wiring harness
O16	Connection 5, in seat heating wiring harness

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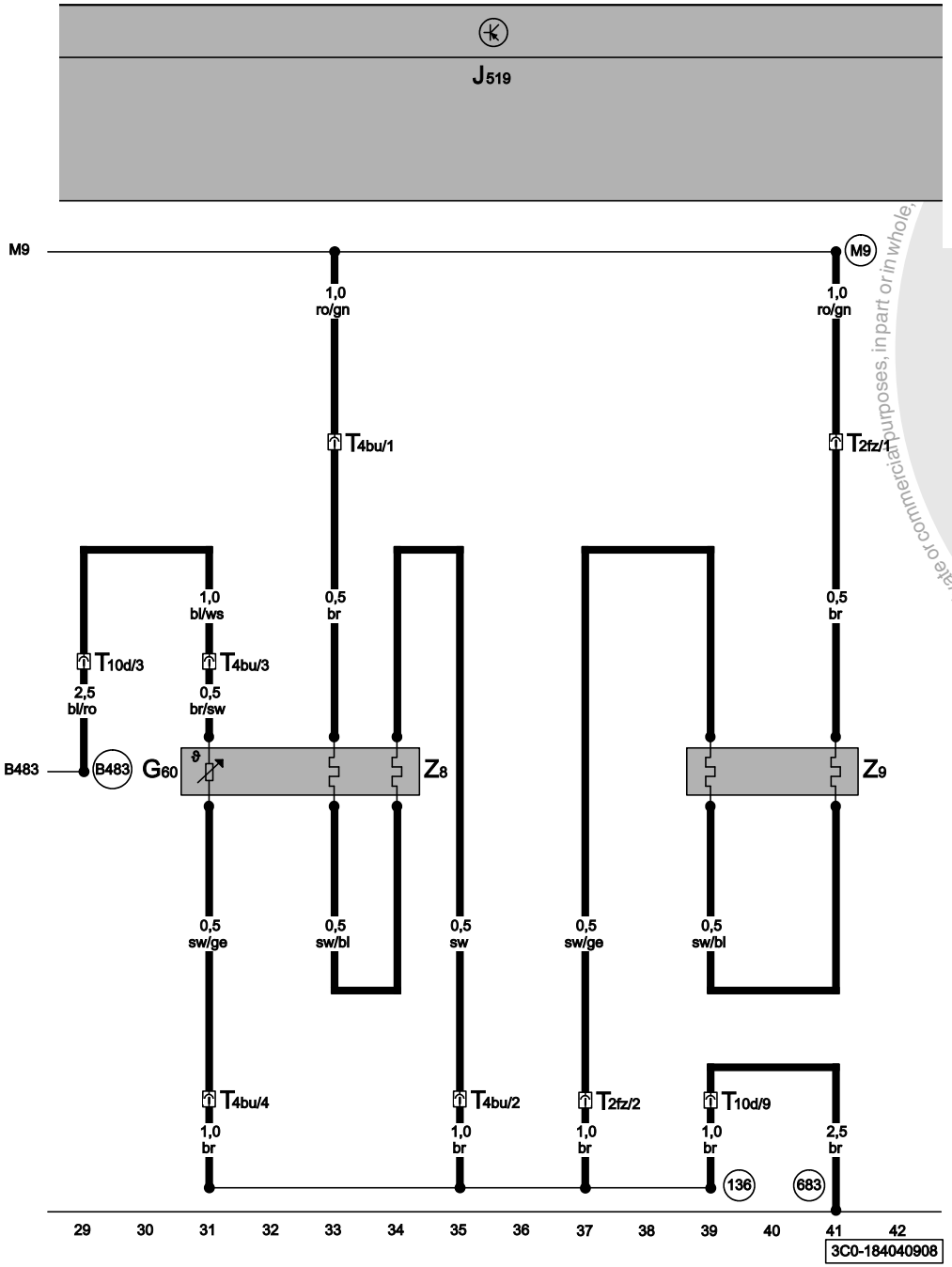


Heated front seats control unit, Climatronic control unit, air conditioning system control unit

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
J774	Heated front seats control unit
SC21	Fuse 21 on fuse holder C
SC34	Fuse 34 on fuse holder C
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
T12k	12-pin connector
T20b	20-pin connector, black
T20c	20-pin connector, on Climatronic/air conditioning system control unit
B163	Positive connection 1 (15), in interior wiring harness
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness
O4	Positive connection (30as), in seat heating wiring harness
O16	Connection 5, in seat heating wiring harness
*	Only models with air conditioning system
**	Only models with Climatronic
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/m_k_m.png" content-width="20pt" scaling="uniform"/>	Only models with rear heated seat

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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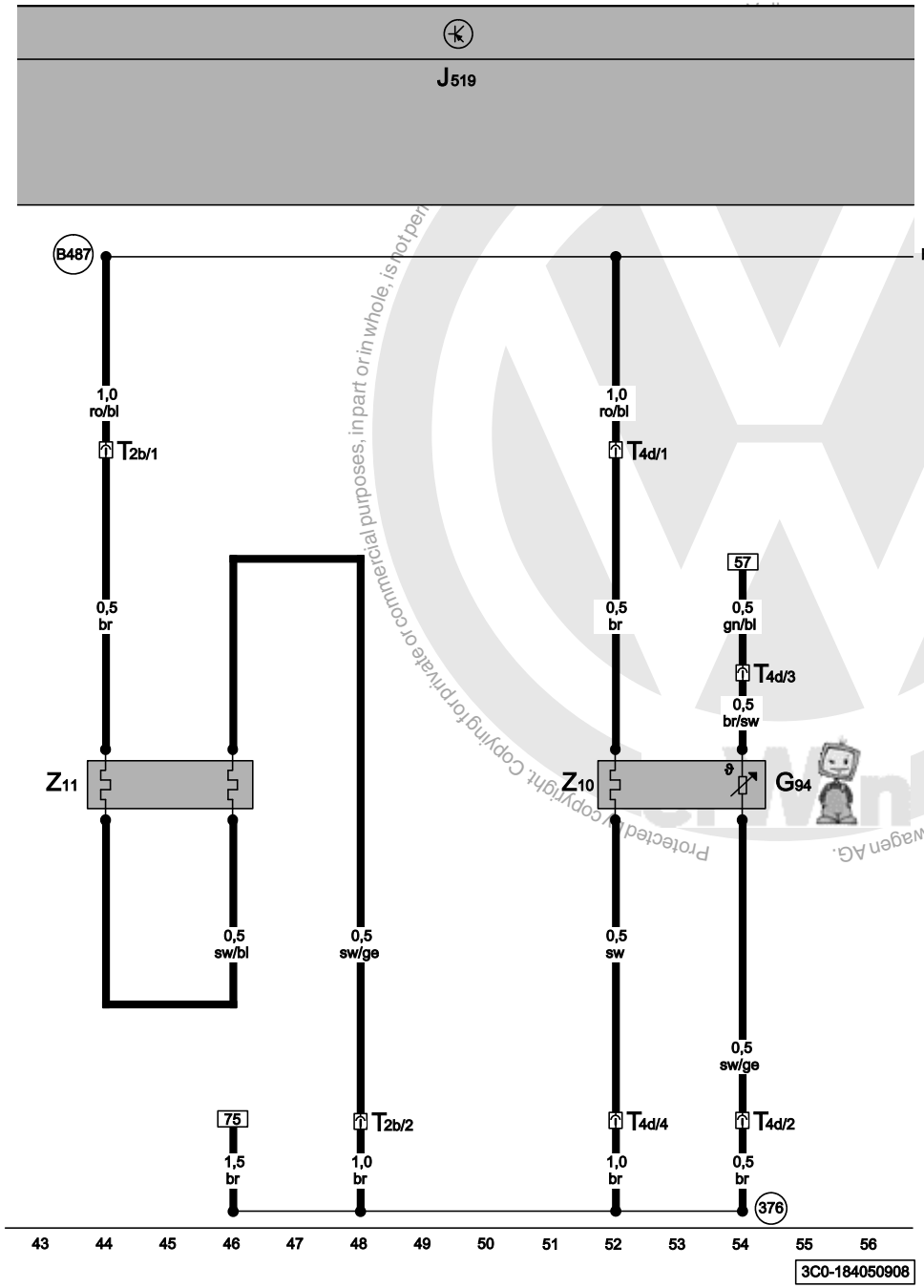


Heated seat cushion for front passenger seat, heated backrest for front passenger seat

G60	Front passenger seat temperature sensor
J519	Onboard supply control unit
T2fz	2-pin connector
T4bu	4-pin connector, black, under front passenger seat seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
Z8	Heated seat cushion for front passenger seat
Z9	Heated backrest for front passenger seat
136	Earth connection 2, in seat heating wiring harness
683	Earth point on front of right side member
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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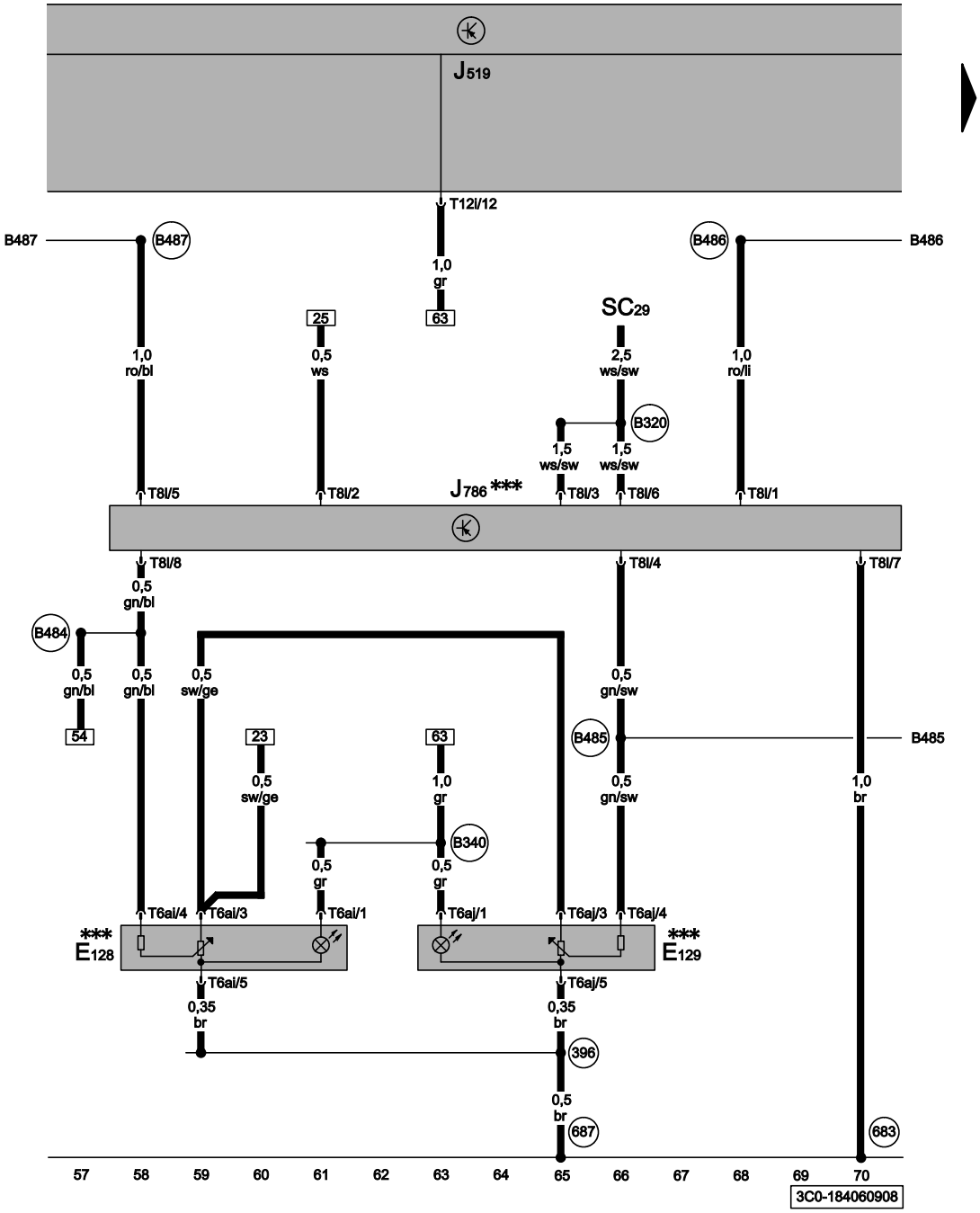


Heated rear left seat, heated rear left seat backrest, rear left seat temperature sensor

G94	Rear left seat temperature sensor
J519	Onboard supply control unit
T2b	2-pin connector
T4d	4-pin connector, black, under rear left seat
Z10	Heated bench seat cushion for rear left seat
Z11	Heated backrest for rear left seat
376	Earth connection 11, in main wiring harness
B487	Connection 23, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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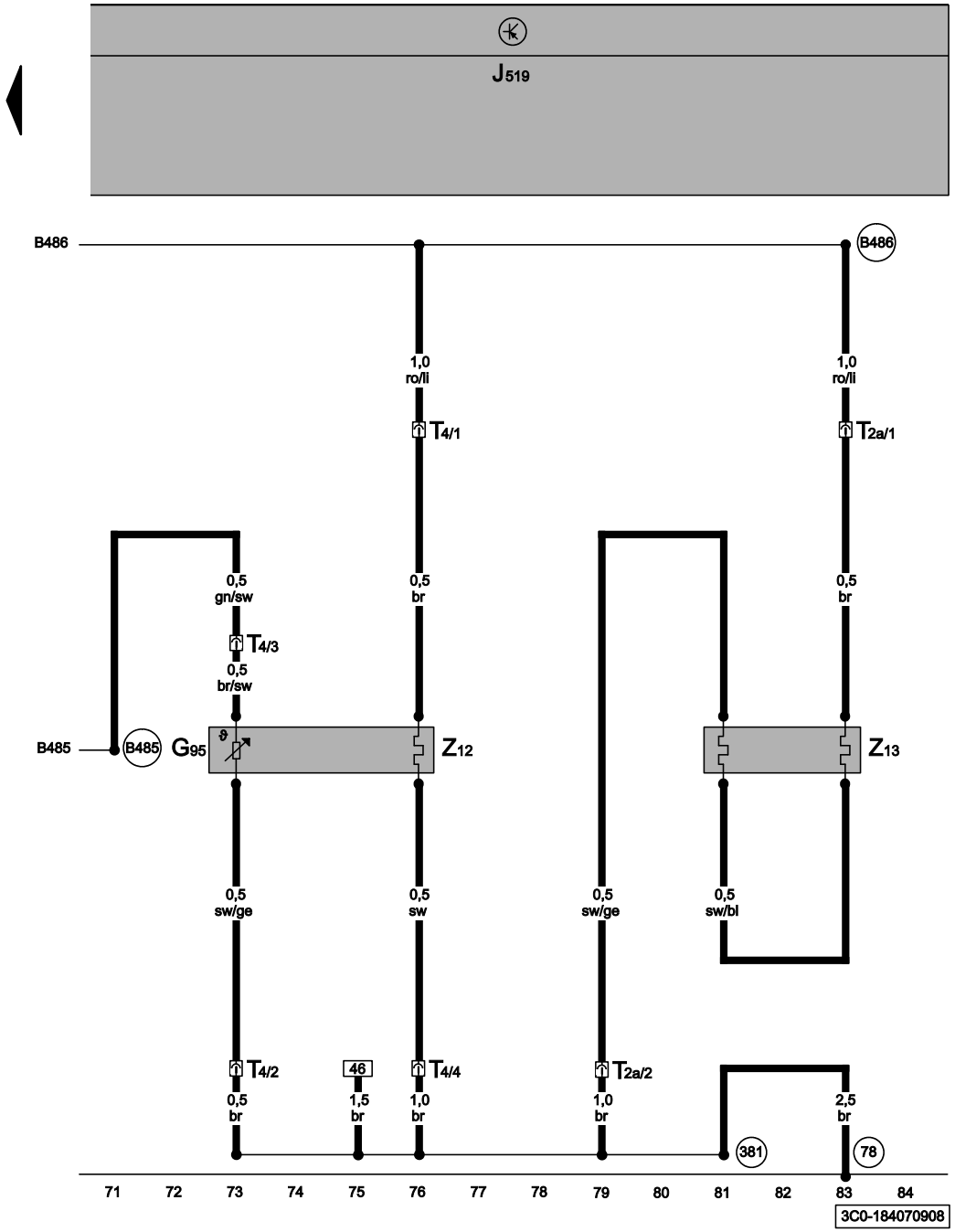


Heated rear seats control unit, heated rear seat switch with regulator

E128	Heated rear left seat switch with regulator
E129	Heated rear right seat switch with regulator
J519	Onboard supply control unit
J786	Heated rear seats control unit
SC29	Fuse 29 on fuse holder C
T6ai	6-pin connector
T6aj	6-pin connector
T8l	8-pin connector
T12i	12-pin connector
396	Earth connection 31, in main wiring harness
683	Earth point on front of right side member
687	Earth point 1, on centre tunnel
B320	Connection 6 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B484	Connection 20, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
B487	Connection 23, in main wiring harness
***	Only models with rear heated seat

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Heated bench seat cushion for rear right seat, heated backrest for rear right seat

G95	Rear right seat temperature sensor
J519	Onboard supply control unit
T2a	2-pin connector
T4	4-pin connector, black, under rear right seat
Z12	Heated bench seat cushion for rear right seat
Z13	Heated backrest for rear right seat
78	Earth point, lower part of right B-pillar
381	Earth connection 16, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Seat heating

⇒ **Sport seat**

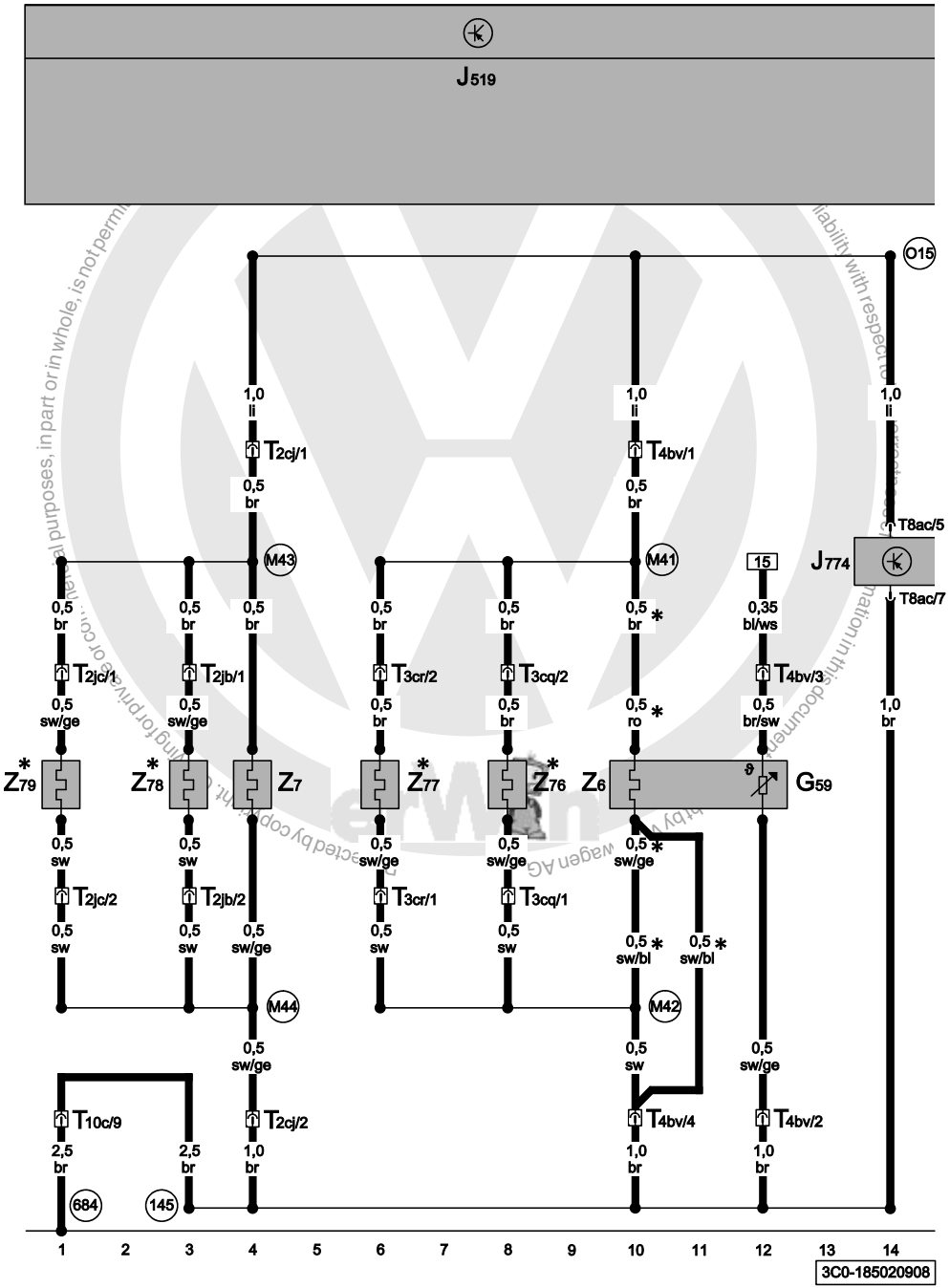
From May 2008

Notes:

- *For information concerning*
- *Relay and fuse assignment*
- *Multi-pin connections*
- *Control units and relays*
- *Earth connections*
- *⇒ Overview of Fitting Locations!*
- *For information concerning*
- *Fault Finding Programs*
- *⇒ guided fault finding*

Edition 10.08

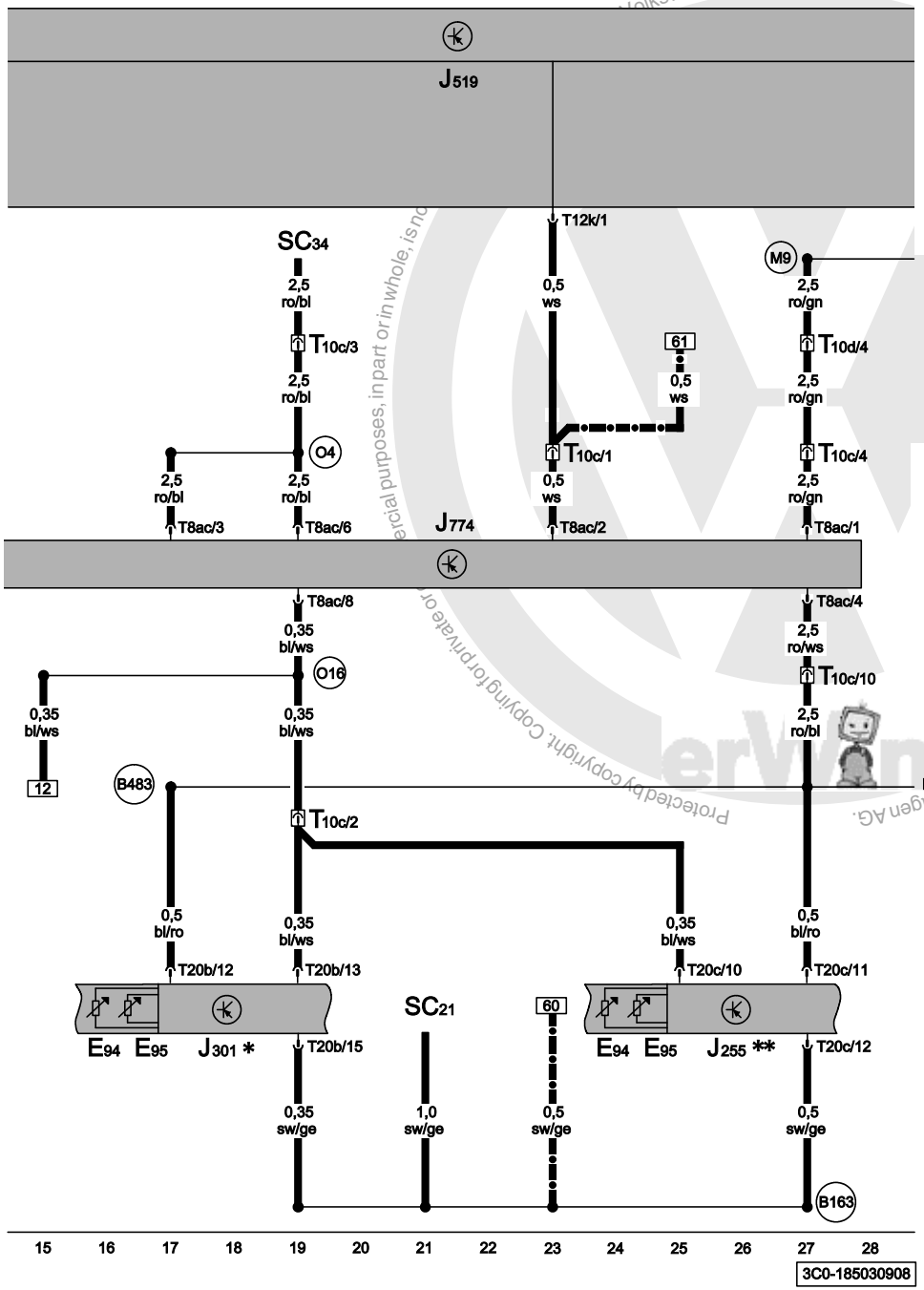
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Heated driver seat, heated driver seat backrest, lateral support heater, heated front seats control unit

G59	Driver seat temperature sensor
J519	Onboard supply control unit
J774	Heated front seats control unit
T2cj	2-pin connector
T2jb	2-pin connector
T2jc	2-pin connector
T3cq	3-pin connector
T3cr	3-pin connector
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
Z6	Heated seat cushion for driver seat
Z7	Heated backrest for driver seat
Z76	Left lateral support heater for driver seat
Z77	Right lateral support heater for driver seat
Z78	Left lateral support heater for driver seat backrest
Z79	Right lateral support heater for driver seat backrest
145	Earth connection 3, in seat heating wiring harness
684	Earth point on front of left side member
M41	Connection 1, in driver seat wiring harness
M42	Connection 2, in driver seat wiring harness
M43	Connection 3, in driver seat wiring harness
M44	Connection 4, in driver seat wiring harness
O15	Connection 4, in seat heating wiring harness
*	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

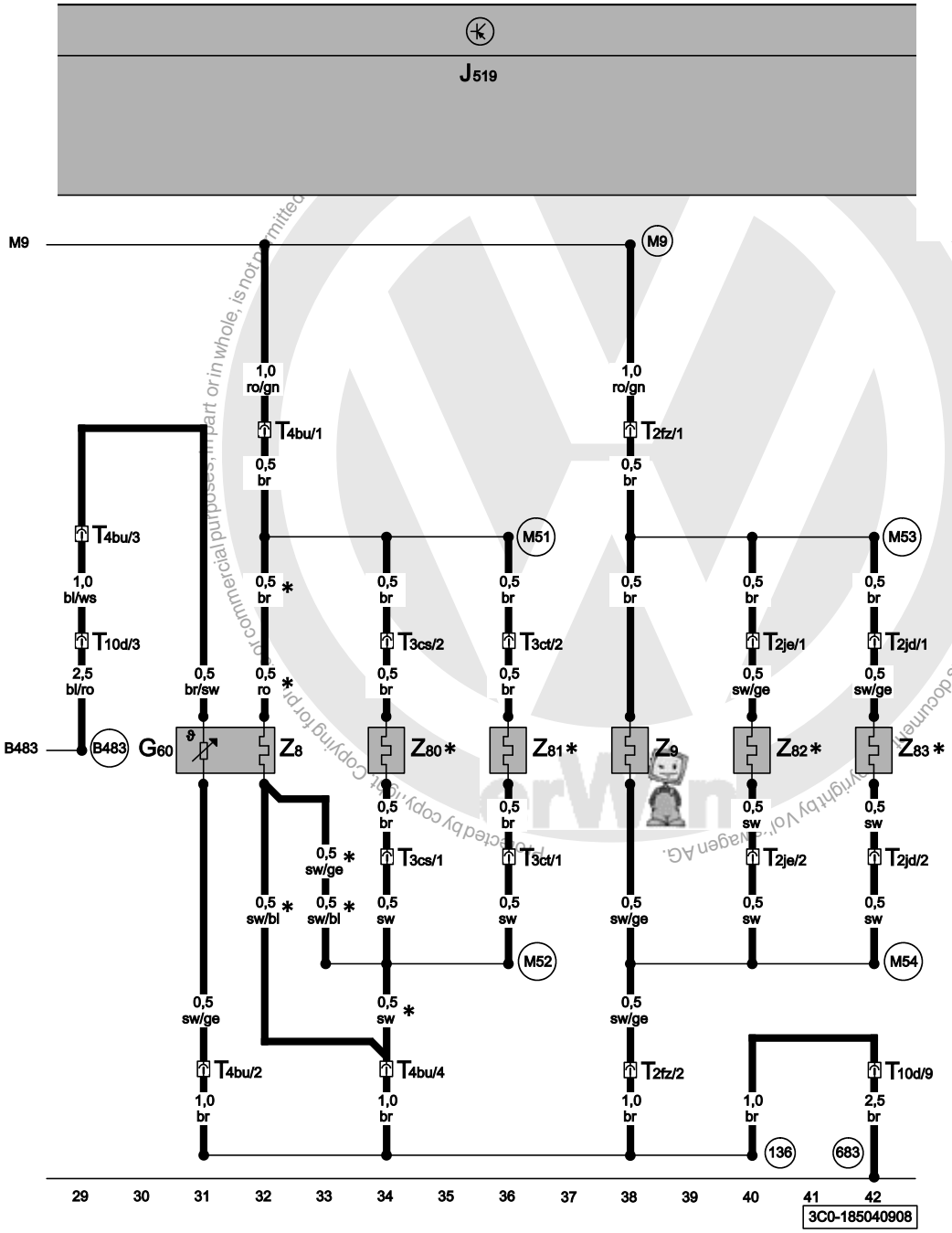


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Heated front seats control unit, Climatronic control unit, air conditioning system control unit

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
J774	Heated front seats control unit
SC21	Fuse 21 on fuse holder C
SC34	Fuse 34 on fuse holder C
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
T12k	12-pin connector
T20b	20-pin connector, black
T20c	20-pin connector, on Climatronic/air conditioning system control unit
B163	Positive connection 1 (15), in interior wiring harness
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness
O4	Positive connection (30as), in seat heating wiring harness
O16	Connection 5, in seat heating wiring harness
*	Only models with air conditioning system
**	Only models with Climatronic
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/m_k_m.png" content-width="20pt" scaling="uniform"/>	Only models with rear heated seat

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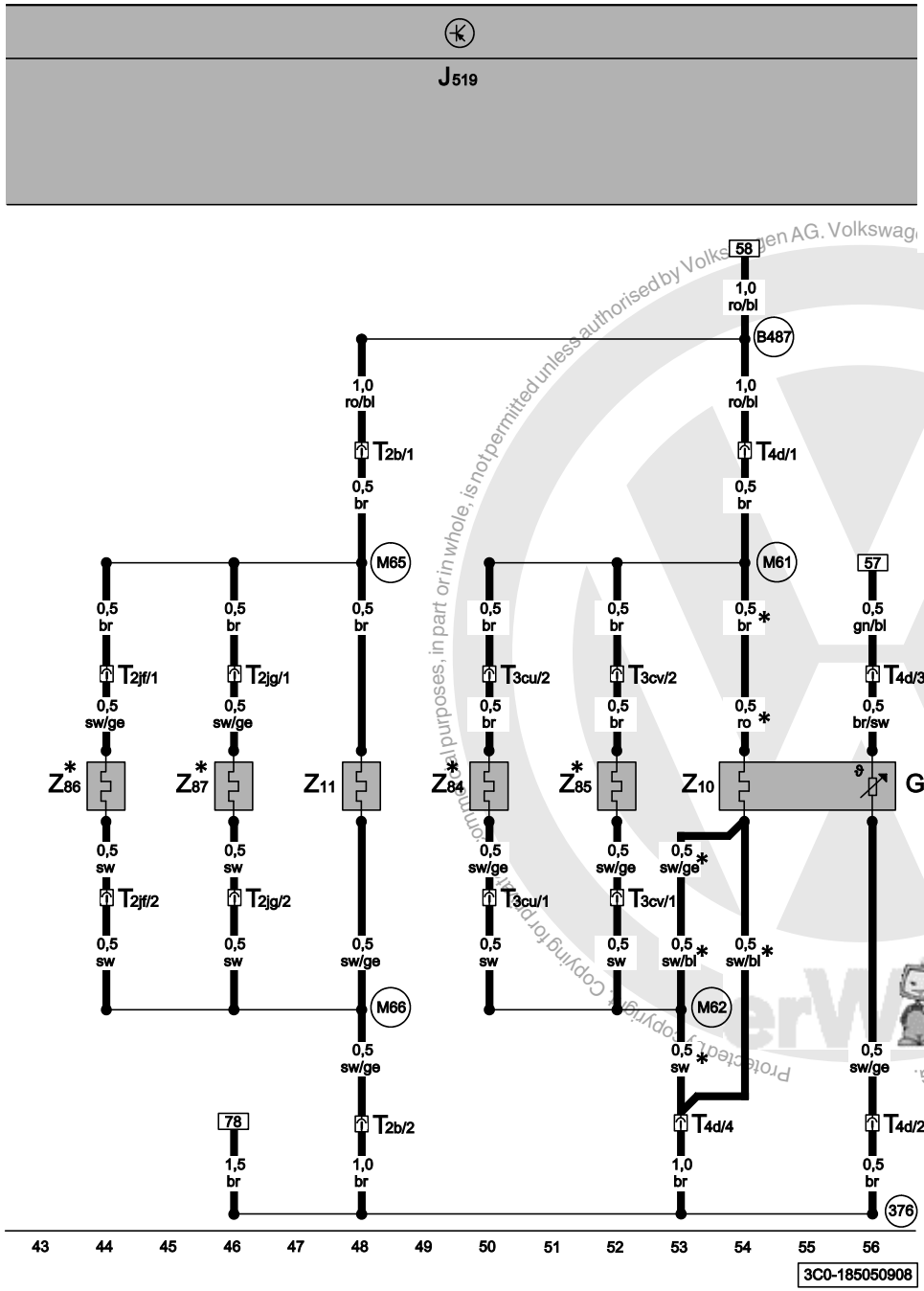


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Heated front passenger seat, heated front passenger seat backrest, lateral support heater, front passenger seat temperature sensor

G60	Front passenger seat temperature sensor
J519	Onboard supply control unit
T2jd	2-pin connector
T2je	2-pin connector
T2fz	2-pin connector
T3cs	3-pin connector
T3ct	3-pin connector
T4bu	4-pin connector, black, under front passenger seat seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
Z8	Heated seat cushion for front passenger seat
Z9	Heated backrest for front passenger seat
Z80	Left lateral support heater for front passenger seat
Z81	Right lateral support heater for front passenger seat
Z82	Left lateral support heater for front passenger seat backrest
Z83	Right lateral support heater for front passenger seat backrest
136	Earth connection 2, in seat heating wiring harness
683	Earth point on front of right side member
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness
M51	Connection 1, in front passenger seat wiring harness
M52	Connection 2, in front passenger seat wiring harness
M53	Connection 3, in front passenger seat wiring harness
M54	Connection 4, in front passenger seat wiring harness
*	Depends on equipment

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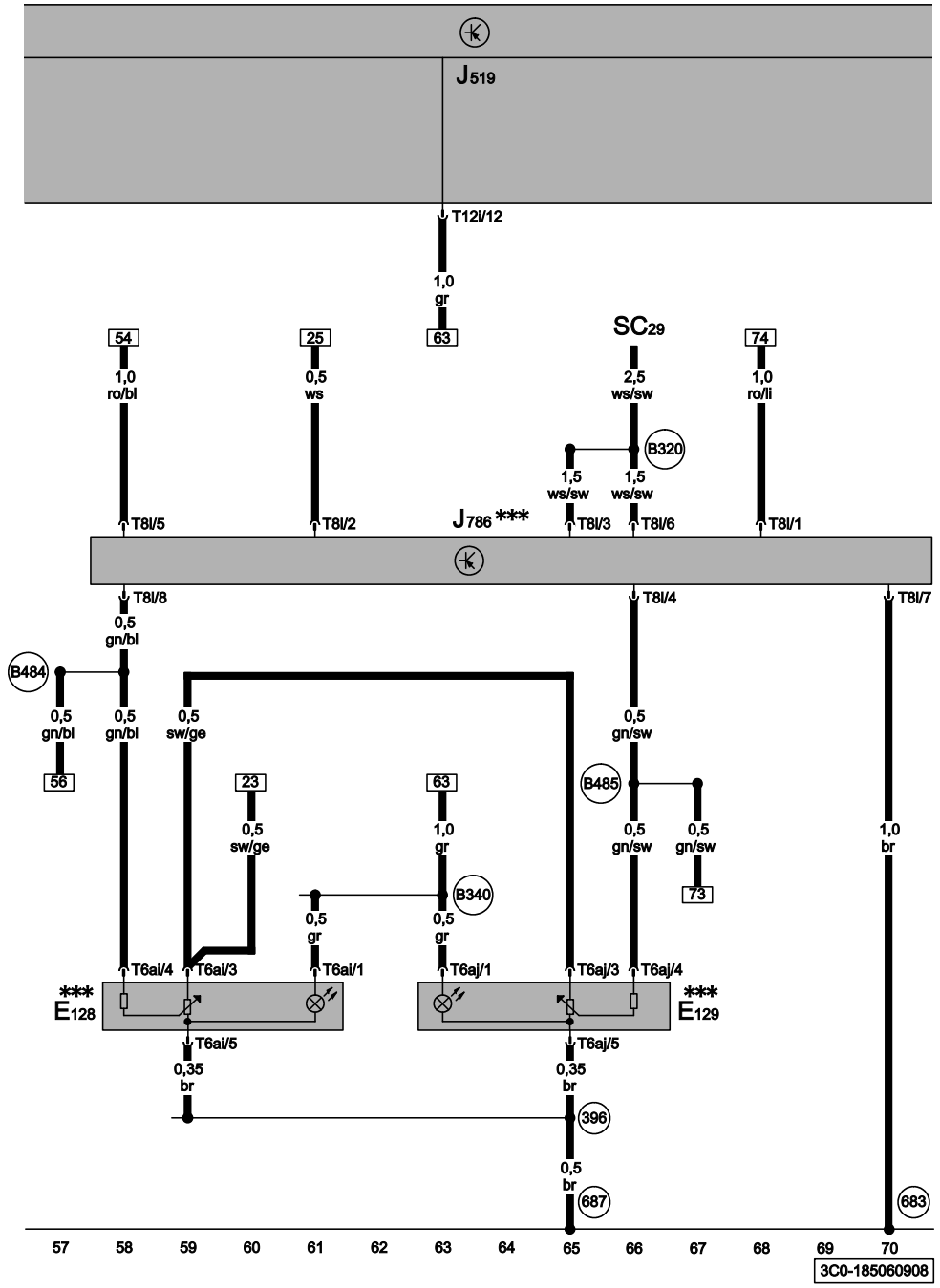


Heated rear left seat, heated rear left seat backrest, lateral support heater, rear left seat temperature sensor

G94	Rear left seat temperature sensor
J519	Onboard supply control unit
T2b	2-pin connector
T2jf	2-pin connector
T2jg	2-pin connector
T3cu	3-pin connector
T3cv	3-pin connector
T4d	4-pin connector, black, under rear left seat
Z10	Heated bench seat cushion for rear left seat
Z11	Heated backrest for rear left seat
Z84	Left lateral support heater for driver side rear seat
Z85	Right lateral support heater for driver side rear seat
Z86	Left lateral support heater for driver side rear seat backrest
Z87	Right lateral support heater for driver side rear seat backrest
376	Earth connection 11, in main wiring harness
B487	Connection 23, in main wiring harness
M61	Connection 1, in rear seat wiring harness
M62	Connection 2, in rear seat wiring harness
M65	Connection 5, in rear seat wiring harness
M66	Connection 6, in rear seat wiring harness
*	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
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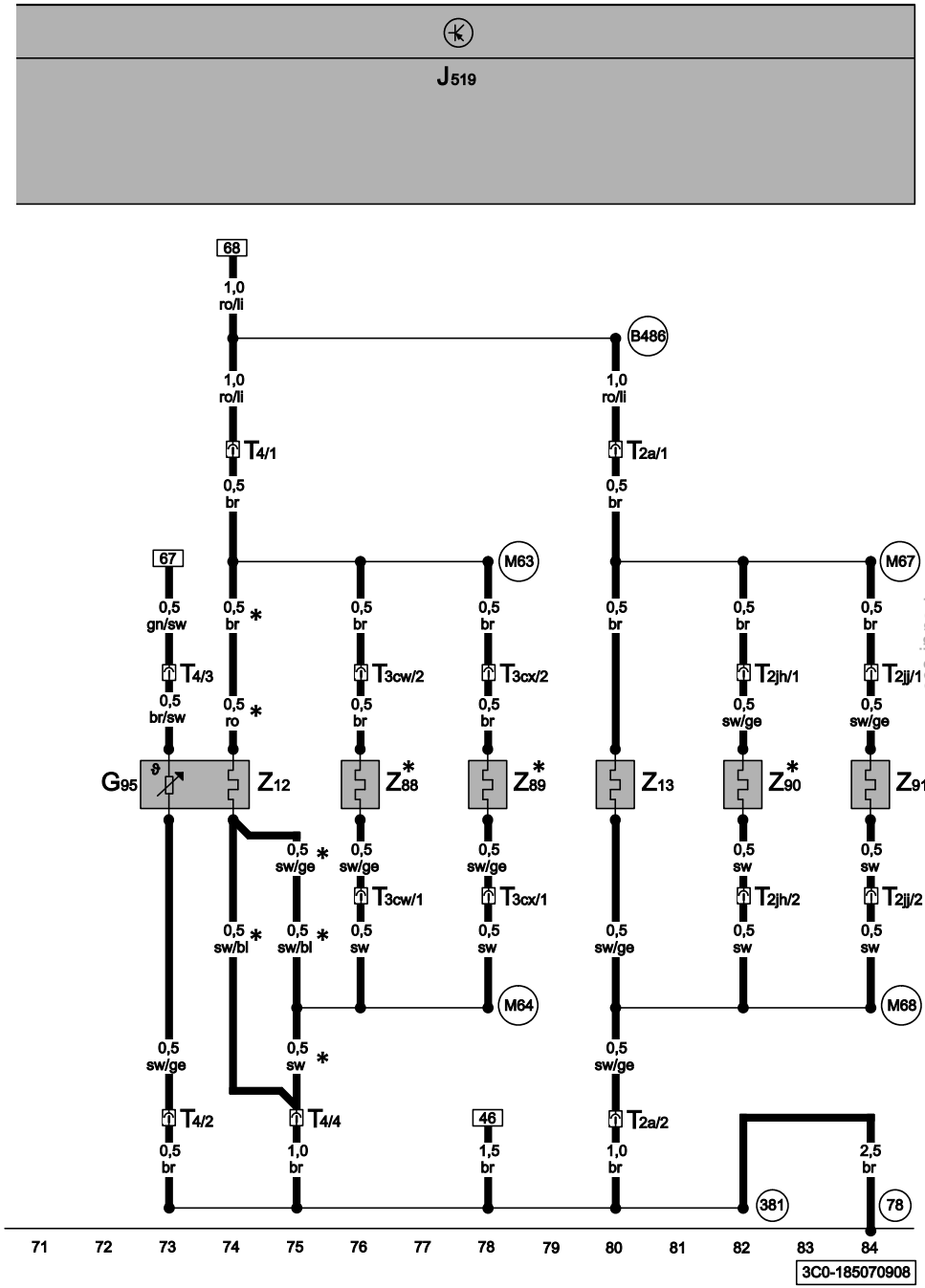


Heated rear seats control unit, heated rear seat switch with regulator

E128	Heated rear left seat switch with regulator
E129	Heated rear right seat switch with regulator
J519	Onboard supply control unit
J786	Heated rear seats control unit
SC29	Fuse 29 on fuse holder C
T6ai	6-pin connector
T6aj	6-pin connector
T8l	8-pin connector
T12i	12-pin connector
396	Earth connection 31, in main wiring harness
683	Earth point on front of right side member
687	Earth point 1, on centre tunnel
B320	Connection 6 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B484	Connection 20, in main wiring harness
B485	Connection 21, in main wiring harness
***	Only models with rear heated seat

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Heated rear right seat, heated rear right seat backrest, lateral support heater, rear right seat temperature sensor

G95	Rear right seat temperature sensor
J519	Onboard supply control unit
T2a	2-pin connector
T2jh	2-pin connector
T2jj	2-pin connector
T3cw	3-pin connector
T3cx	3-pin connector
T4	4-pin connector, black, under rear right seat
Z12	Heated bench seat cushion for rear right seat
Z13	Heated backrest for rear right seat
Z88	Left lateral support heater for passenger side rear seat
Z89	Right lateral support heater for passenger side rear seat
Z90	Left lateral support heater for passenger side rear seat backrest
Z91	Right lateral support heater for passenger side rear seat backrest
78	Earth point, lower part of right B-pillar
381	Earth connection 16, in main wiring harness
B486	Connection 22, in main wiring harness
M63	Connection 3, in rear seat wiring harness
M64	Connection 4, in rear seat wiring harness
M67	Connection 7, in rear seat wiring harness
M68	Connection 8, in rear seat wiring harness
*	Depends on equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Seat heating

⇒ **Luxury seat with cloth cover**

⇒ **Luxury leather seat, with no backrest lateral support heater**

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

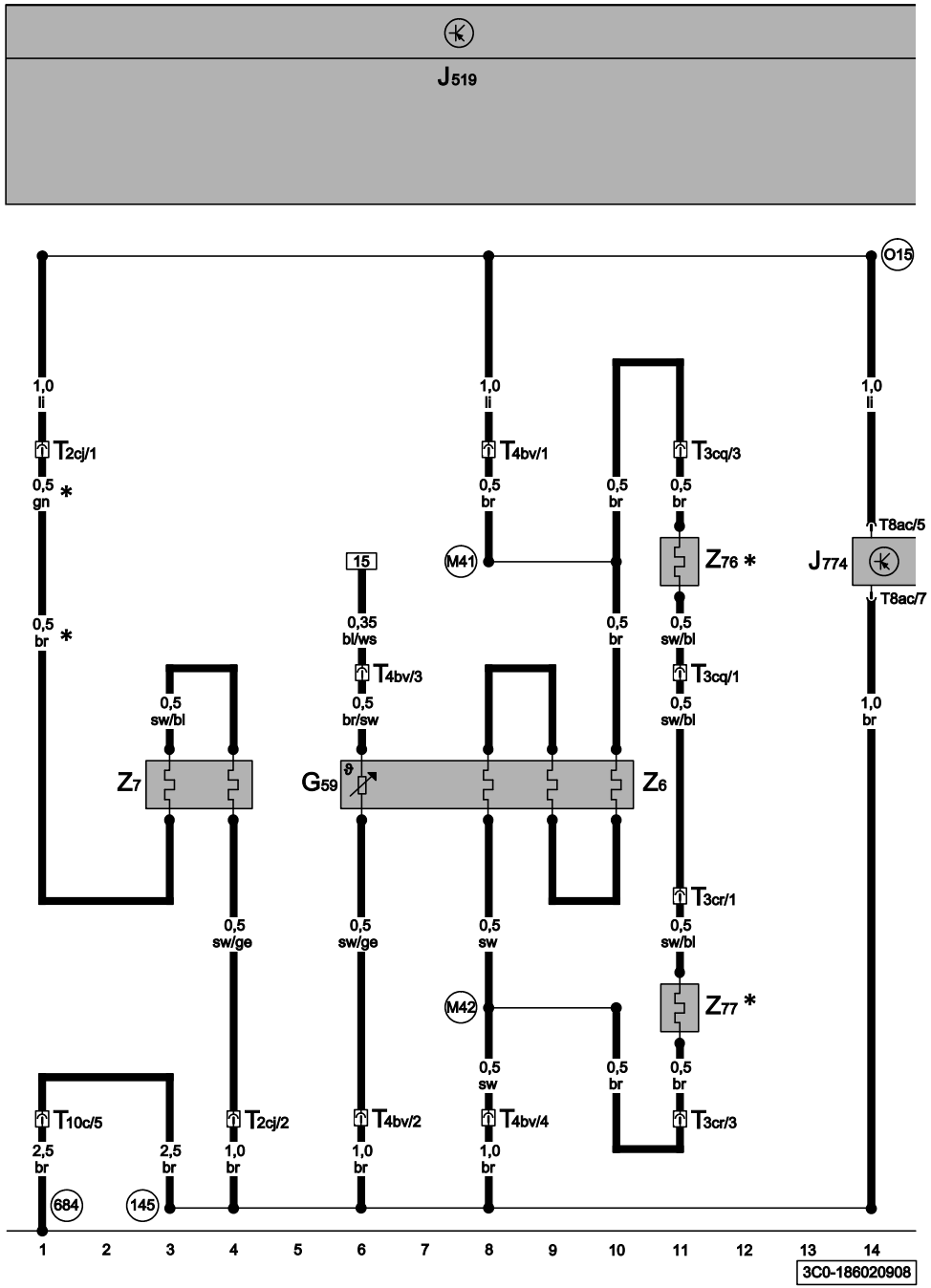
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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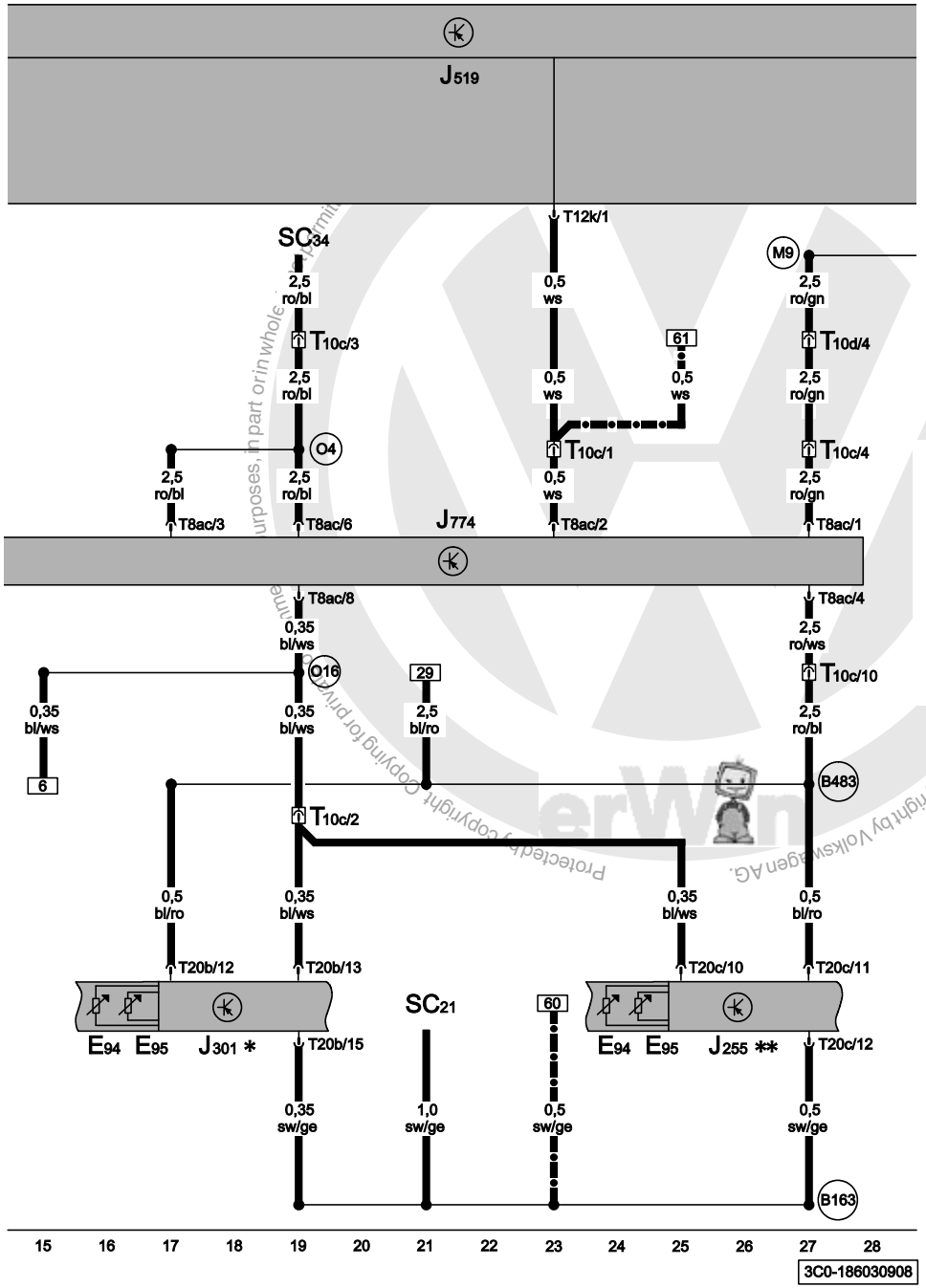


Heated driver seat cushion, heated driver seat backrest, lateral support heater, driver seat temperature sensor, heated driver seat control unit

G59	Driver seat temperature sensor
J519	Onboard supply control unit
J774	Heated front seats control unit
T2cj	2-pin connector
T3cq	3-pin connector
T3cr	3-pin connector
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
Z6	Heated seat cushion for driver seat
Z7	Heated backrest for driver seat
Z76	Left lateral support heater for driver seat
Z77	Right lateral support heater for driver seat
145	Earth connection 3, in seat heating wiring harness
684	Earth point on front of left side member
M41	Connection 1, in driver seat wiring harness
M42	Connection 2, in driver seat wiring harness
O15	Connection 4, in seat heating wiring harness
*	Depends on equipment

ws	=	white
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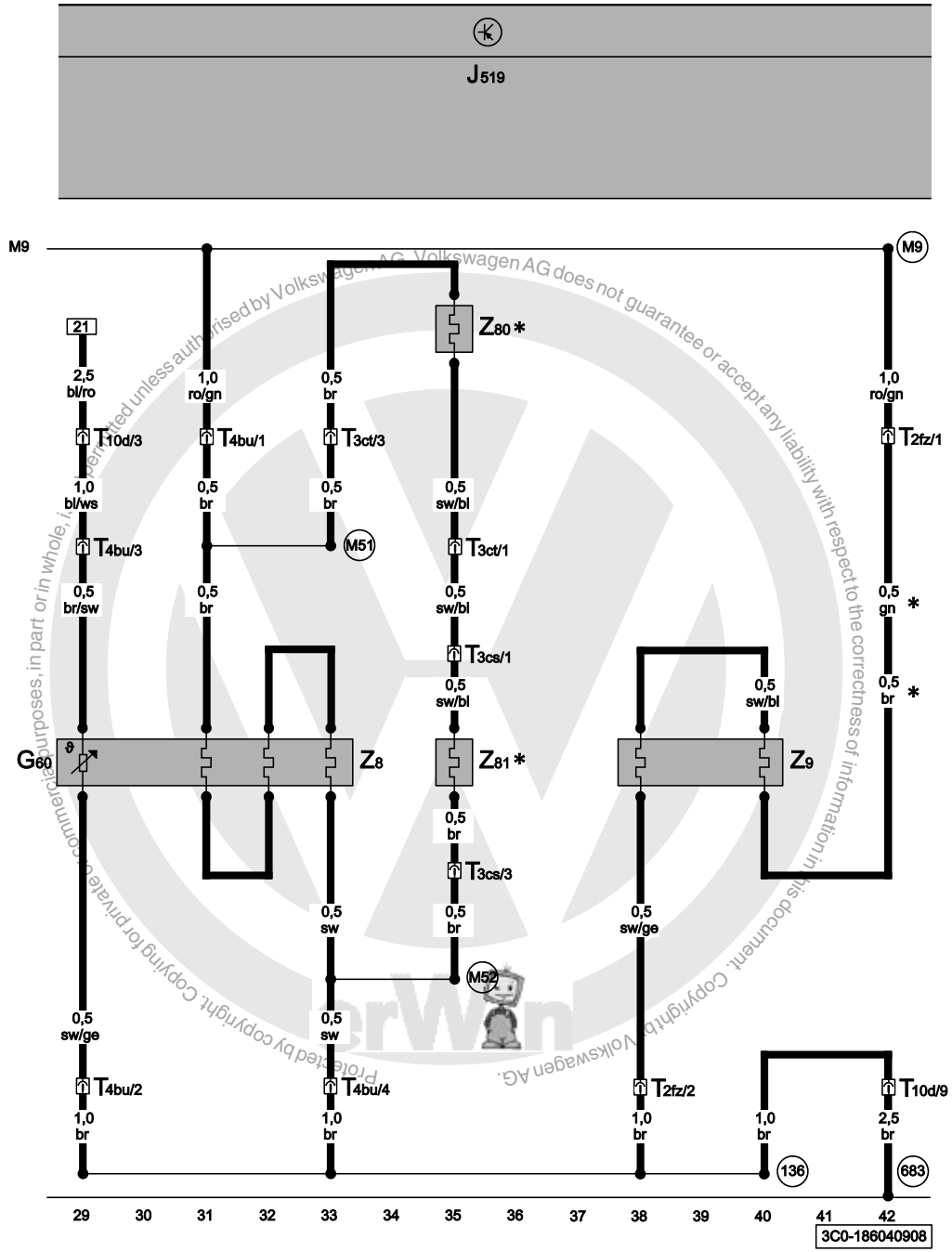


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Heated front seats control unit, Climatronic control unit, air conditioning system control unit

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
J774	Heated front seats control unit
SC21	Fuse 21 on fuse holder C
SC34	Fuse 34 on fuse holder C
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
T12k	12-pin connector
T20b	20-pin connector, black
T20c	20-pin connector, on Climatronic/air conditioning system control unit
B163	Positive connection 1 (15), in interior wiring harness
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness
O4	Positive connection (30as), in seat heating wiring harness
O16	Connection 5, in seat heating wiring harness
*	Only models with air conditioning system
**	Only models with Climatronic
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/m_k_m.png" content-width="20pt" scaling="uniform"/>	Only models with rear heated seat

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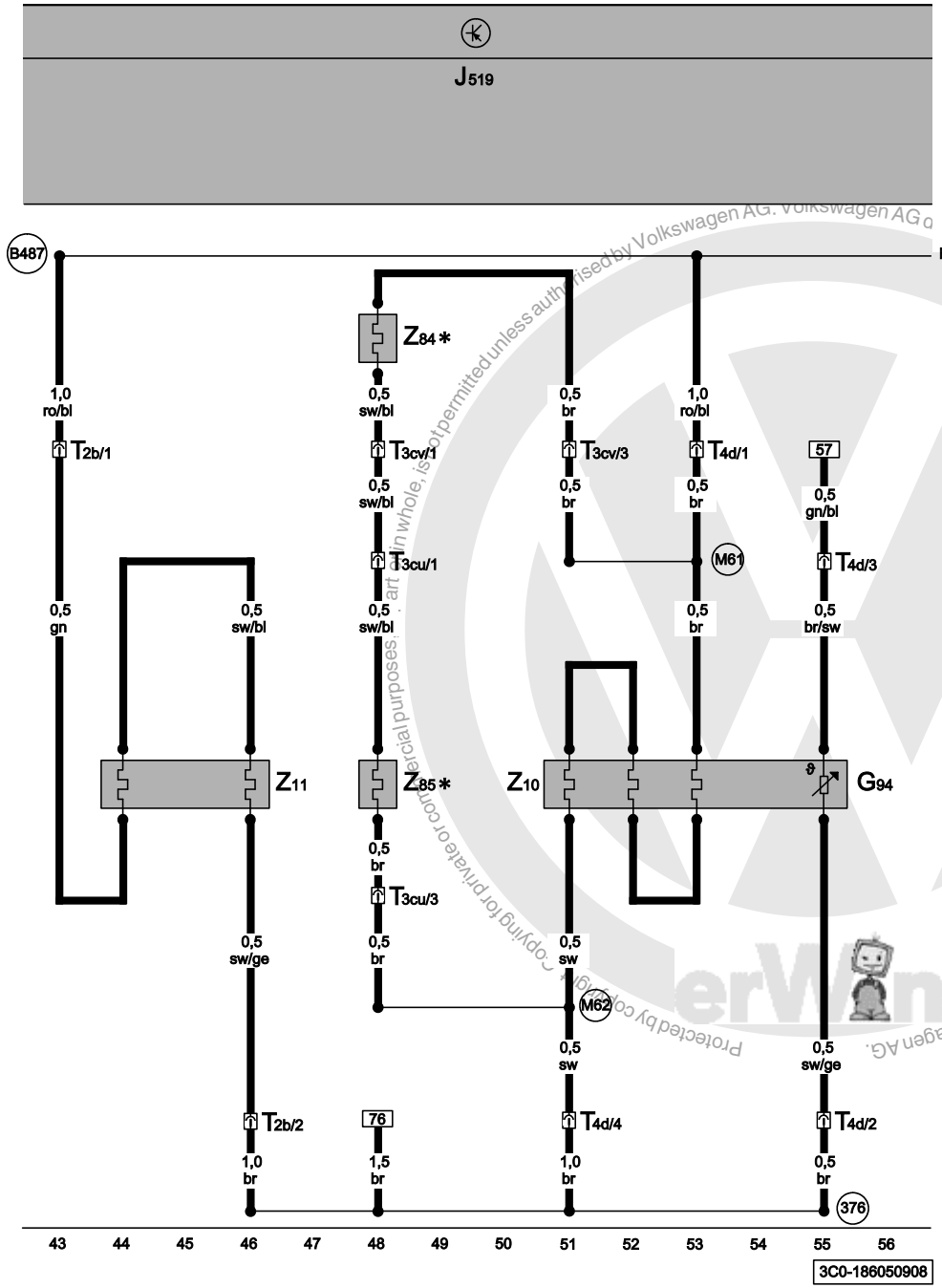


Heated front passenger seat, heated front passenger seat backrest, lateral support heater, front passenger seat temperature sensor

G60	Front passenger seat temperature sensor
J519	Onboard supply control unit
T2fz	2-pin connector
T3cs	3-pin connector
T3ct	3-pin connector
T4bu	4-pin connector, black, under front passenger seat seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
Z8	Heated seat cushion for front passenger seat
Z9	Heated backrest for front passenger seat
Z80	Left lateral support heater for front passenger seat
Z81	Right lateral support heater for front passenger seat
136	Earth connection 2, in seat heating wiring harness
683	Earth point on front of right side member
M9	Connection, in seat adjustment wiring harness
M51	Connection 1, in front passenger seat wiring harness
M52	Connection 2, in front passenger seat wiring harness
*	Depends on equipment

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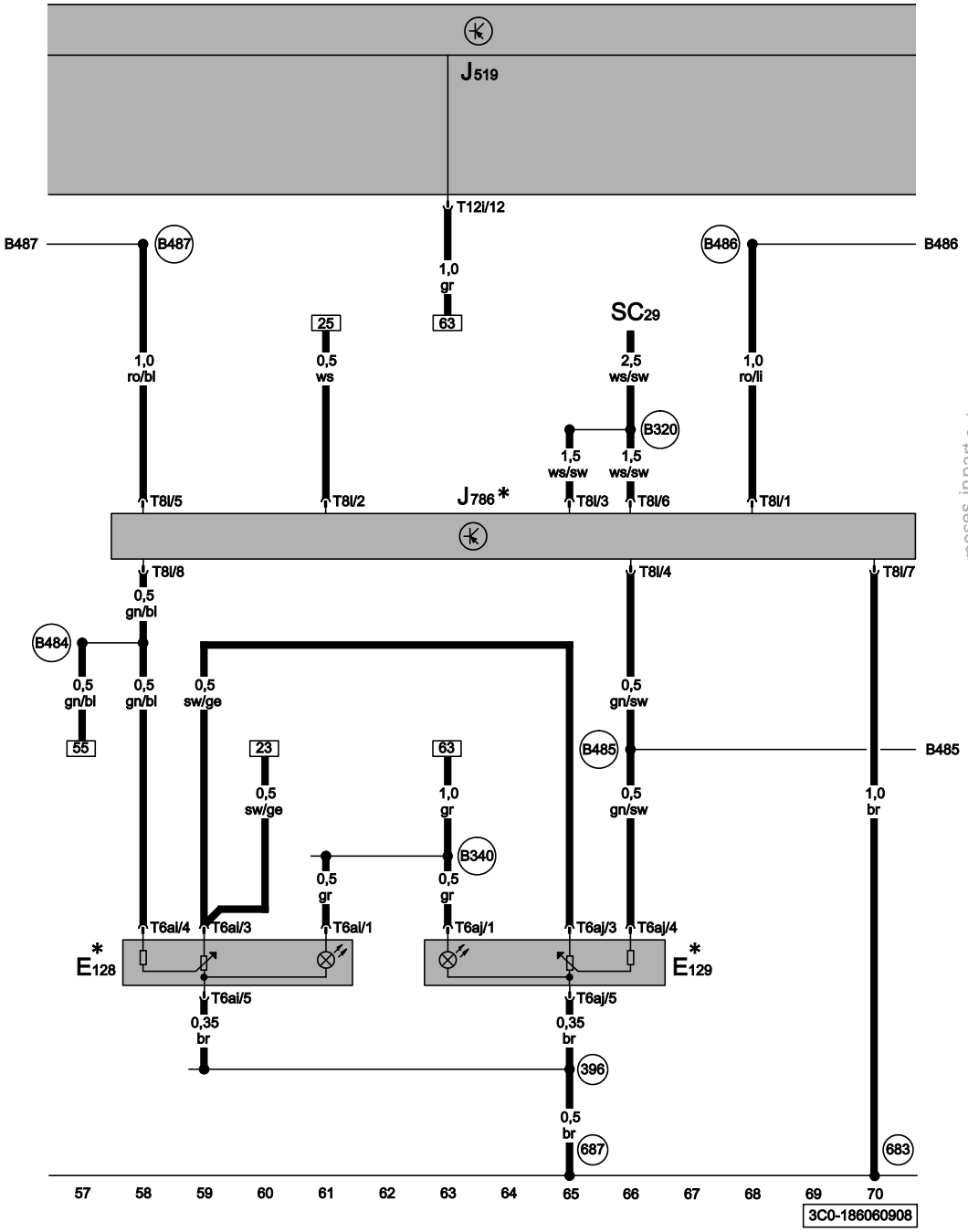


Heated rear left seat, heated rear left seat backrest, lateral support heater, rear left seat temperature sensor

G94	Rear left seat temperature sensor
J519	Onboard supply control unit
T2b	2-pin connector
T3cu	3-pin connector
T3cv	3-pin connector
T4d	4-pin connector, black, under rear left seat
Z10	Heated bench seat cushion for rear left seat
Z11	Heated backrest for rear left seat
Z84	Left lateral support heater for driver side rear seat
Z85	Right lateral support heater for driver side rear seat
376	Earth connection 11, in main wiring harness
B487	Connection 23, in main wiring harness
M61	Connection 1, in rear seat wiring harness
M62	Connection 2, in rear seat wiring harness
*	Depends on equipment

ws	=	white
sw	=	black
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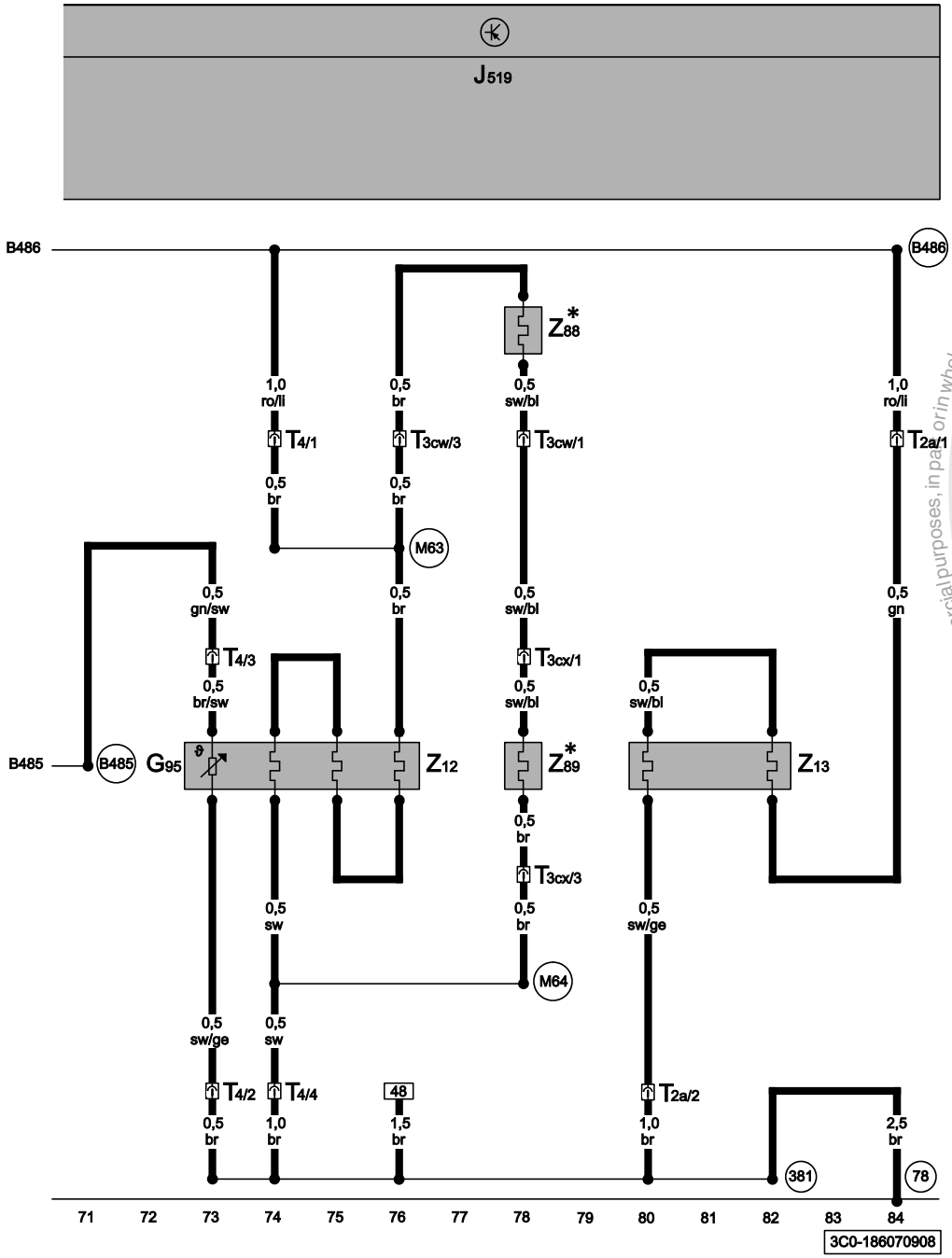


Heated rear seats control unit, heated rear seat switch with regulator

E128	Heated rear left seat switch with regulator
E129	Heated rear right seat switch with regulator
J519	Onboard supply control unit
J786	Heated rear seats control unit
SC29	Fuse 29 on fuse holder C
T6ai	6-pin connector
T6aj	6-pin connector
T8l	8-pin connector
T12i	12-pin connector
396	Earth connection 31, in main wiring harness
683	Earth point on front of right side member
687	Earth point 1, on centre tunnel
B320	Connection 6 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B484	Connection 20, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
B487	Connection 23, in main wiring harness
*	Only models with rear heated seat

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Heated rear right seat, heated rear right seat backrest, lateral support heater, rear right seat temperature sensor

G95	Rear right seat temperature sensor
J519	Onboard supply control unit
T2a	2-pin connector
T3cw	3-pin connector
T3cx	3-pin connector
T4	4-pin connector, black, under rear right seat
Z12	Heated bench seat cushion for rear right seat
Z13	Heated backrest for rear right seat
Z88	Left lateral support heater for passenger side rear seat
Z89	Right lateral support heater for passenger side rear seat
78	Earth point, lower part of right B-pillar
381	Earth connection 16, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
M63	Connection 3, in rear seat wiring harness
M64	Connection 4, in rear seat wiring harness
*	Depends on equipment

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Seat heating

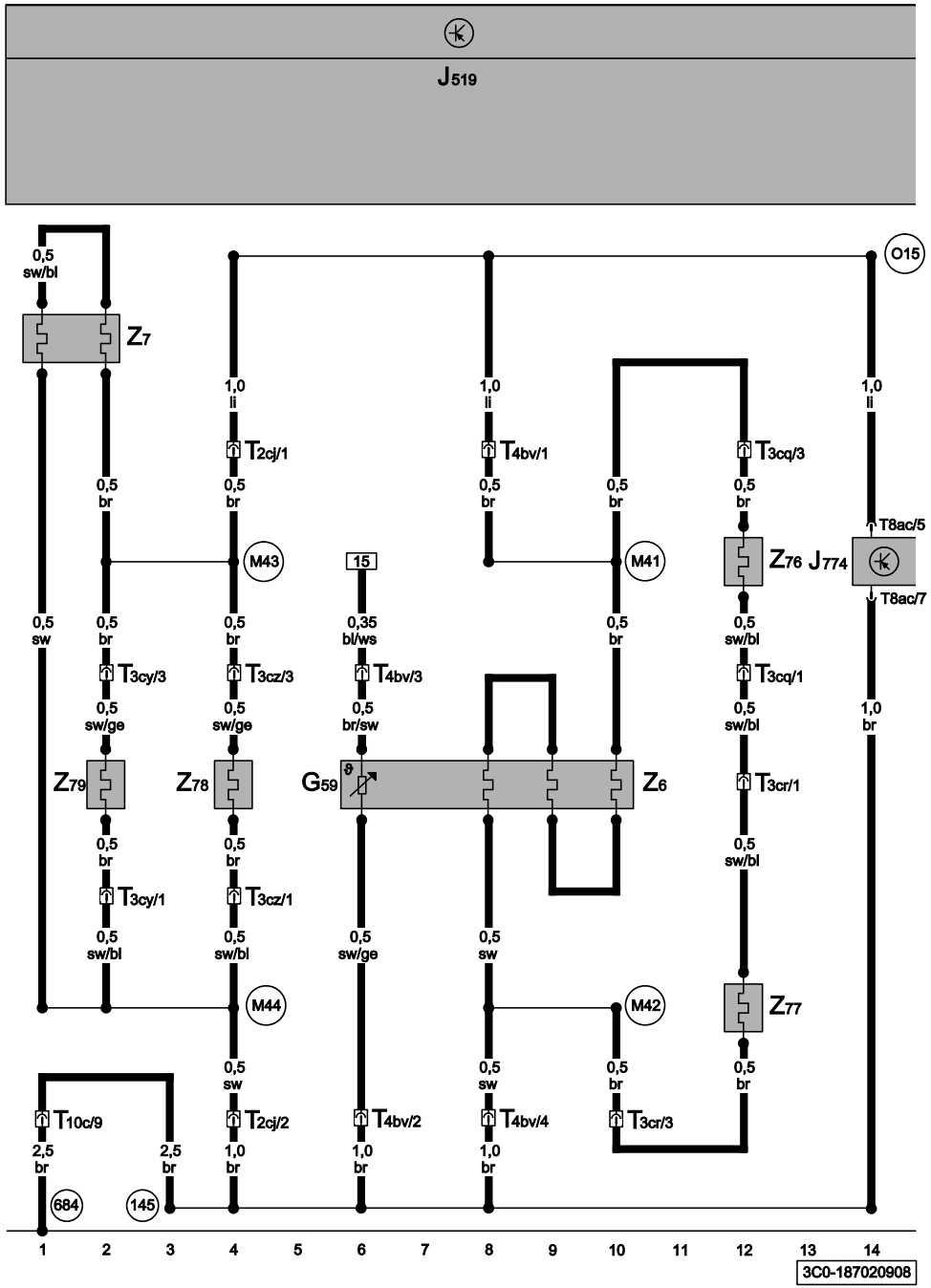
⇒ **Luxury leather seat**
⇒ **With backrest lateral support heater**
⇒ **With no backrest release for front seats**
⇒ **With no front seat ventilation/massage function**
From May 2008

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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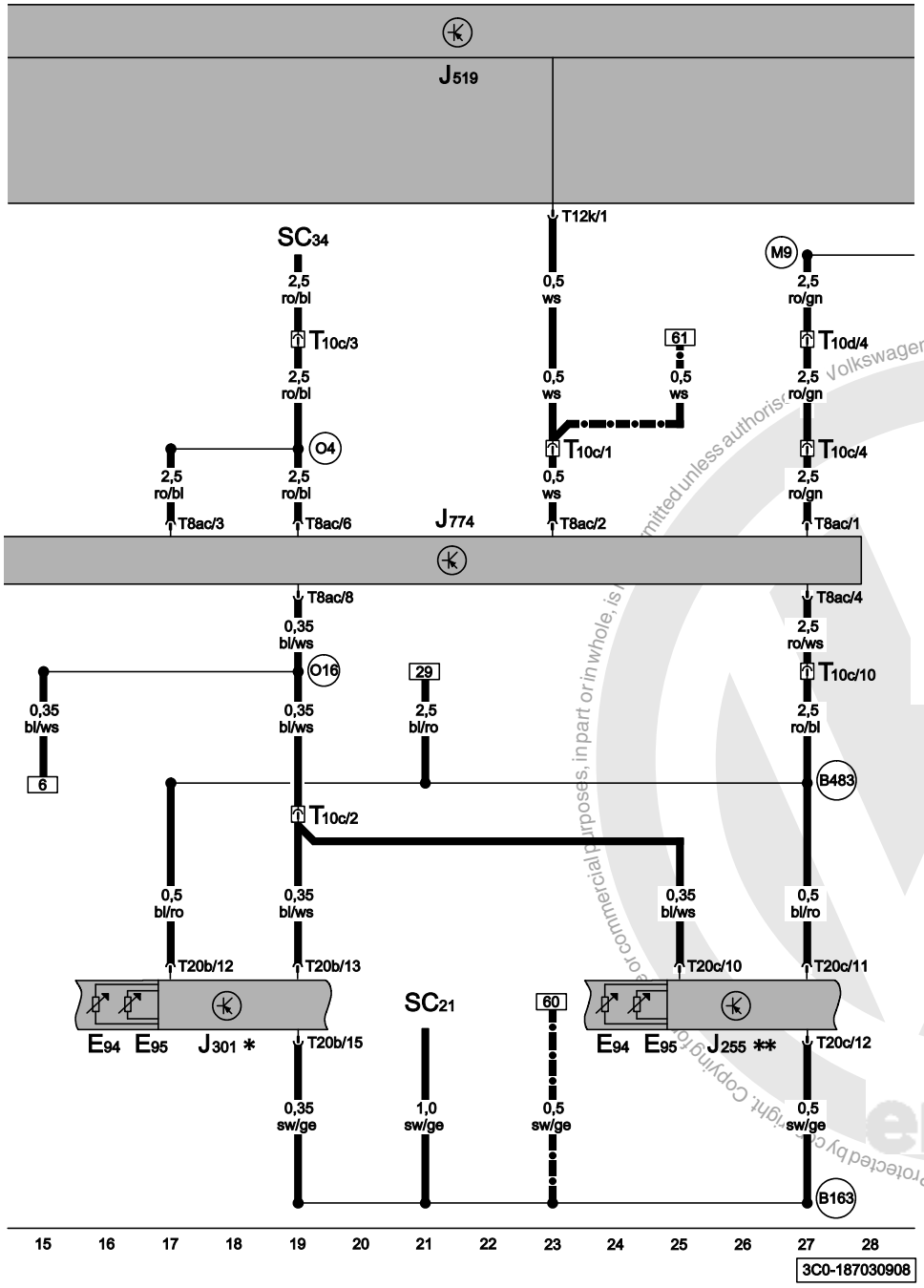


Heated driver seat cushion, heated driver seat backrest, lateral support heater, driver seat temperature sensor, heated driver seat control unit

G59	Driver seat temperature sensor
J519	Onboard supply control unit
J774	Heated front seats control unit
T2cj	2-pin connector
T3cq	3-pin connector
T3cr	3-pin connector
T3cy	3-pin connector
T3cz	3-pin connector
T4bv	4-pin connector, black, under driver seat
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
Z6	Heated seat cushion for driver seat
Z7	Heated backrest for driver seat
Z76	Left lateral support heater for driver seat
Z77	Right lateral support heater for driver seat
Z78	Left lateral support heater for driver seat backrest
Z79	Right lateral support heater for driver seat backrest
145	Earth connection 3, in seat heating wiring harness
684	Earth point on front of left side member
M41	Connection 1, in driver seat wiring harness
M42	Connection 2, in driver seat wiring harness
M43	Connection 3, in driver seat wiring harness
M44	Connection 4, in driver seat wiring harness
O15	Connection 4, in seat heating wiring harness

ws	=	white
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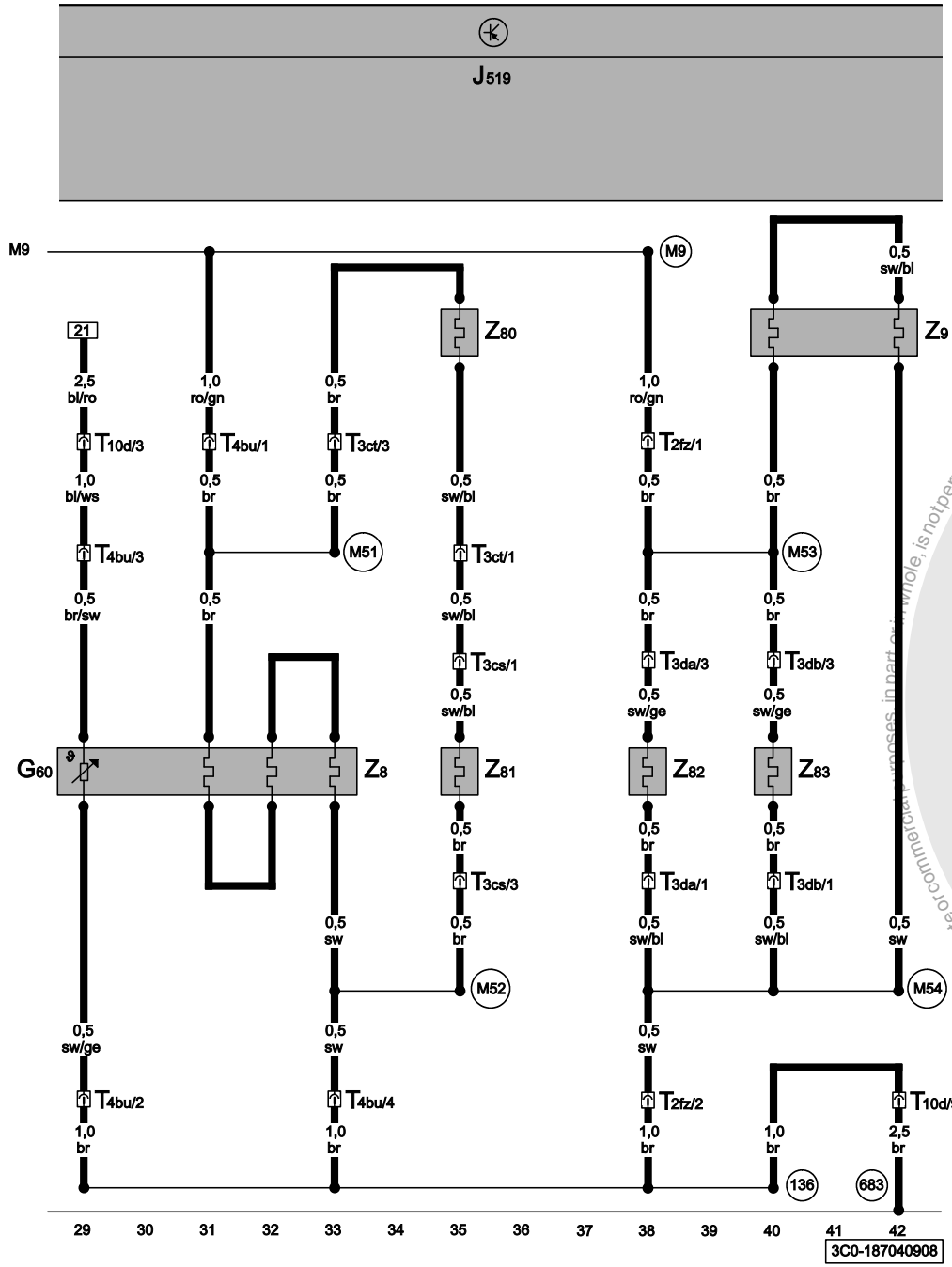


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Heated front seats control unit, Climatronic control unit, air conditioning system control unit

E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
J255	Climatronic control unit
J301	Air conditioning system control unit
J519	Onboard supply control unit
J774	Heated front seats control unit
SC21	Fuse 21 on fuse holder C
SC34	Fuse 34 on fuse holder C
T8ac	8-pin connector
T10c	10-pin connector, black, coupling point driver side, under seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
T12k	12-pin connector
T20b	20-pin connector, black
T20c	20-pin connector, on Climatronic/air conditioning system control unit
B163	Positive connection 1 (15), in interior wiring harness
B483	Connection 19, in main wiring harness
M9	Connection, in seat adjustment wiring harness
O4	Positive connection (30as), in seat heating wiring harness
O16	Connection 5, in seat heating wiring harness
*	Only models with air conditioning system
**	Only models with Climatronic
<fo:external-graphic src="Z:/tools/png-convert/out//slp/ft_icons/m_k_m.png" content-width="20pt" scaling="uniform"/>	Only models with rear heated seat

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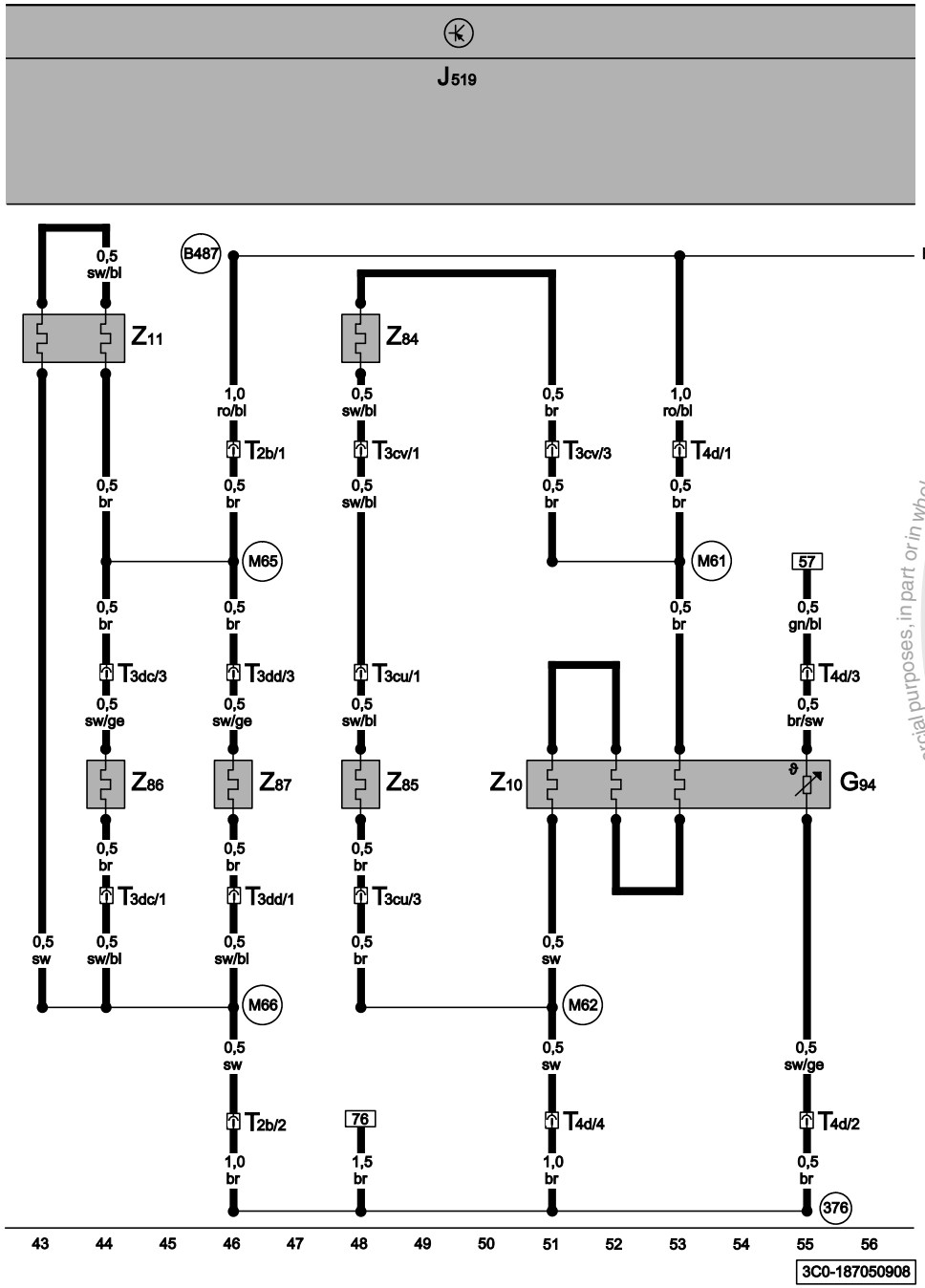


Heated front passenger seat, heated front passenger seat backrest, lateral support heater, front passenger seat temperature sensor

G60	Front passenger seat temperature sensor
J519	Onboard supply control unit
T2fz	2-pin connector
T3cs	3-pin connector
T3ct	3-pin connector
T3da	3-pin connector
T3db	3-pin connector
T4bu	4-pin connector, black, under front passenger seat seat
T10d	10-pin connector, black, coupling point front passenger side, under seat
Z8	Heated seat cushion for front passenger seat
Z9	Heated backrest for front passenger seat
Z80	Left lateral support heater for front passenger seat
Z81	Right lateral support heater for front passenger seat
Z82	Left lateral support heater for front passenger seat backrest
Z83	Right lateral support heater for front passenger seat backrest
136	Earth connection 2, in seat heating wiring harness
683	Earth point on front of right side member
M9	Connection, in seat adjustment wiring harness
M51	Connection 1, in front passenger seat wiring harness
M52	Connection 2, in front passenger seat wiring harness
M53	Connection 3, in front passenger seat wiring harness
M54	Connection 4, in front passenger seat wiring harness

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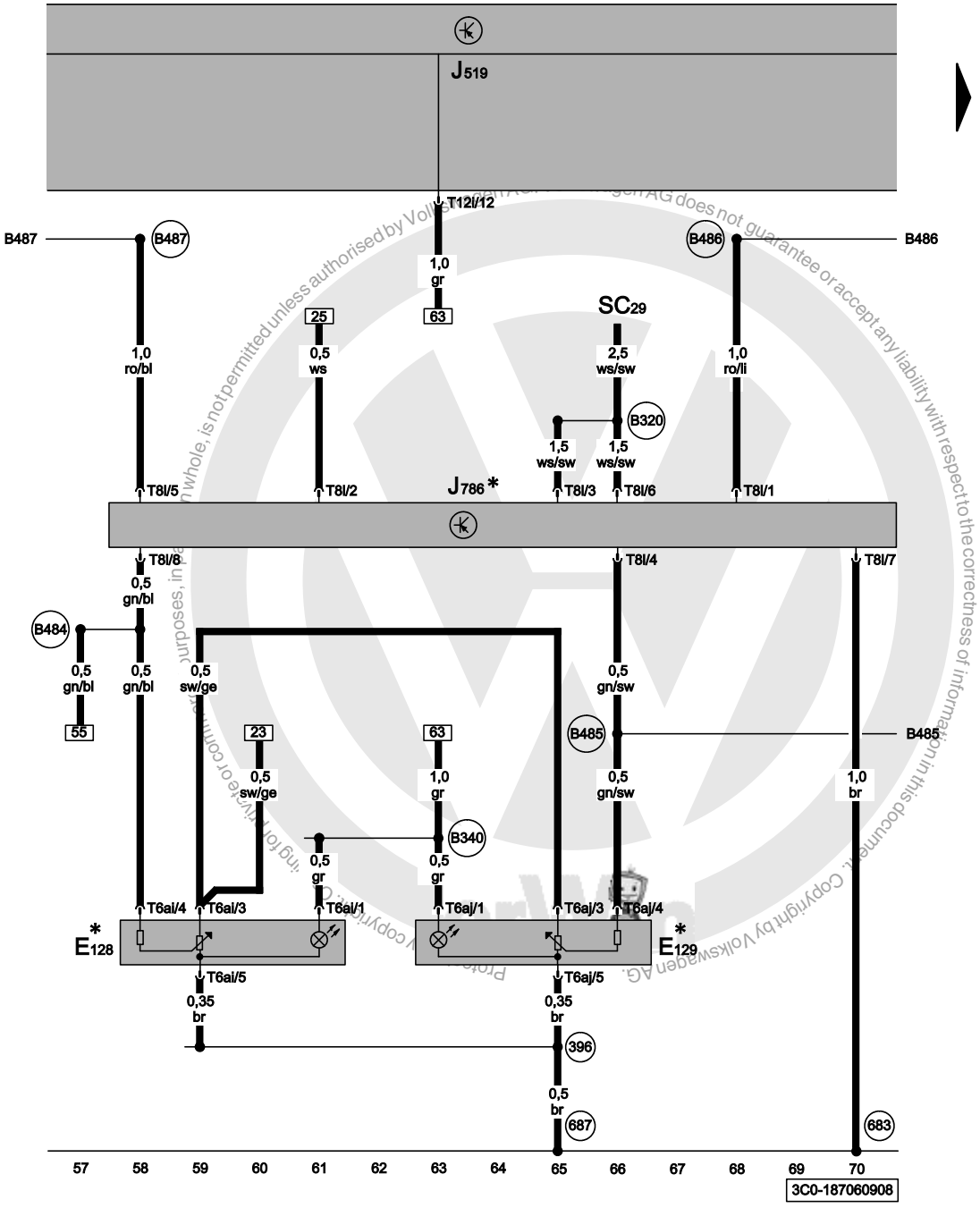


Heated rear left seat, heated rear left seat backrest, lateral support heater, rear left seat temperature sensor

G94	Rear left seat temperature sensor
J519	Onboard supply control unit
T2b	2-pin connector
T3cu	3-pin connector
T3cv	3-pin connector
T3dc	3-pin connector
T3dd	3-pin connector
T4d	4-pin connector, black, under rear left seat
Z10	Heated bench seat cushion for rear left seat
Z11	Heated backrest for rear left seat
Z84	Left lateral support heater for driver side rear seat
Z85	Right lateral support heater for driver side rear seat
Z86	Left lateral support heater for driver side rear seat backrest
Z87	Right lateral support heater for driver side rear seat backrest
376	Earth connection 11, in main wiring harness
B487	Connection 23, in main wiring harness
M61	Connection 1, in rear seat wiring harness
M62	Connection 2, in rear seat wiring harness
M65	Connection 5, in rear seat wiring harness
M66	Connection 6, in rear seat wiring harness

ws	=	white
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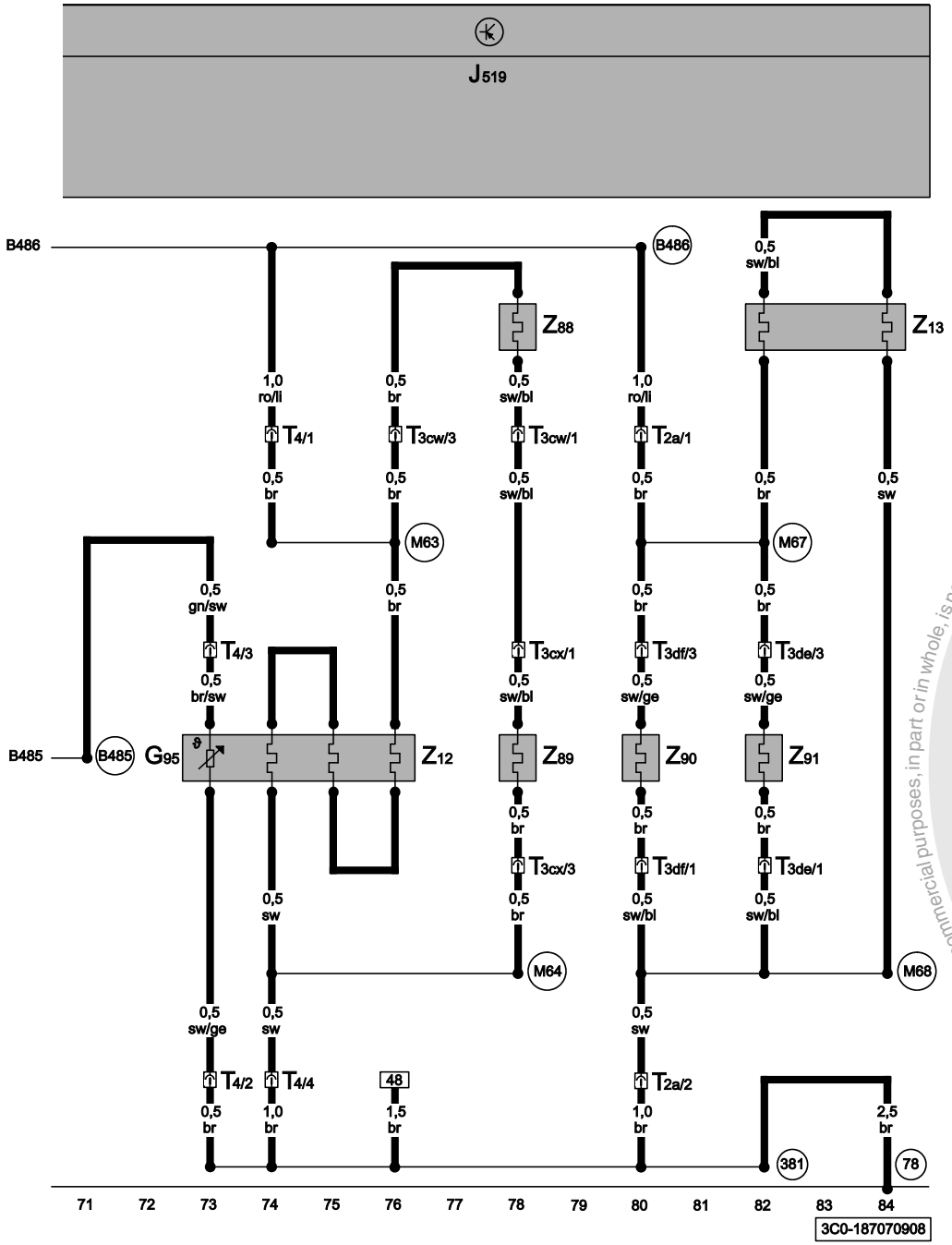


Heated rear seats control unit, heated rear seat switch with regulator

E128	Heated rear left seat switch with regulator
E129	Heated rear right seat switch with regulator
J519	Onboard supply control unit
J786	Heated rear seats control unit
SC29	Fuse 29 on fuse holder C
T6ai	6-pin connector
T6aj	6-pin connector
T8l	8-pin connector
T12i	12-pin connector
396	Earth connection 31, in main wiring harness
683	Earth point on front of right side member
687	Earth point 1, on centre tunnel
B320	Connection 6 (30a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B484	Connection 20, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
B487	Connection 23, in main wiring harness
*	Only models with rear heated seat

ws	=	white
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Heated rear right seat, heated rear right seat backrest, lateral support heater, rear right seat temperature sensor

G95	Rear right seat temperature sensor
J519	Onboard supply control unit
T2a	2-pin connector
T3cw	3-pin connector
T3cx	3-pin connector
T3de	3-pin connector
T3df	3-pin connector
T4	4-pin connector, black, under rear right seat
Z12	Heated bench seat cushion for rear right seat
Z13	Heated backrest for rear right seat
Z88	Left lateral support heater for passenger side rear seat
Z89	Right lateral support heater for passenger side rear seat
Z90	Left lateral support heater for passenger side rear seat backrest
Z91	Right lateral support heater for passenger side rear seat backrest
78	Earth point, lower part of right B-pillar
381	Earth connection 16, in main wiring harness
B485	Connection 21, in main wiring harness
B486	Connection 22, in main wiring harness
M63	Connection 3, in rear seat wiring harness
M64	Connection 4, in rear seat wiring harness
M67	Connection 7, in rear seat wiring harness
M68	Connection 8, in rear seat wiring harness

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1.9 l/77 kW - turbo diesel, engine code BXE

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

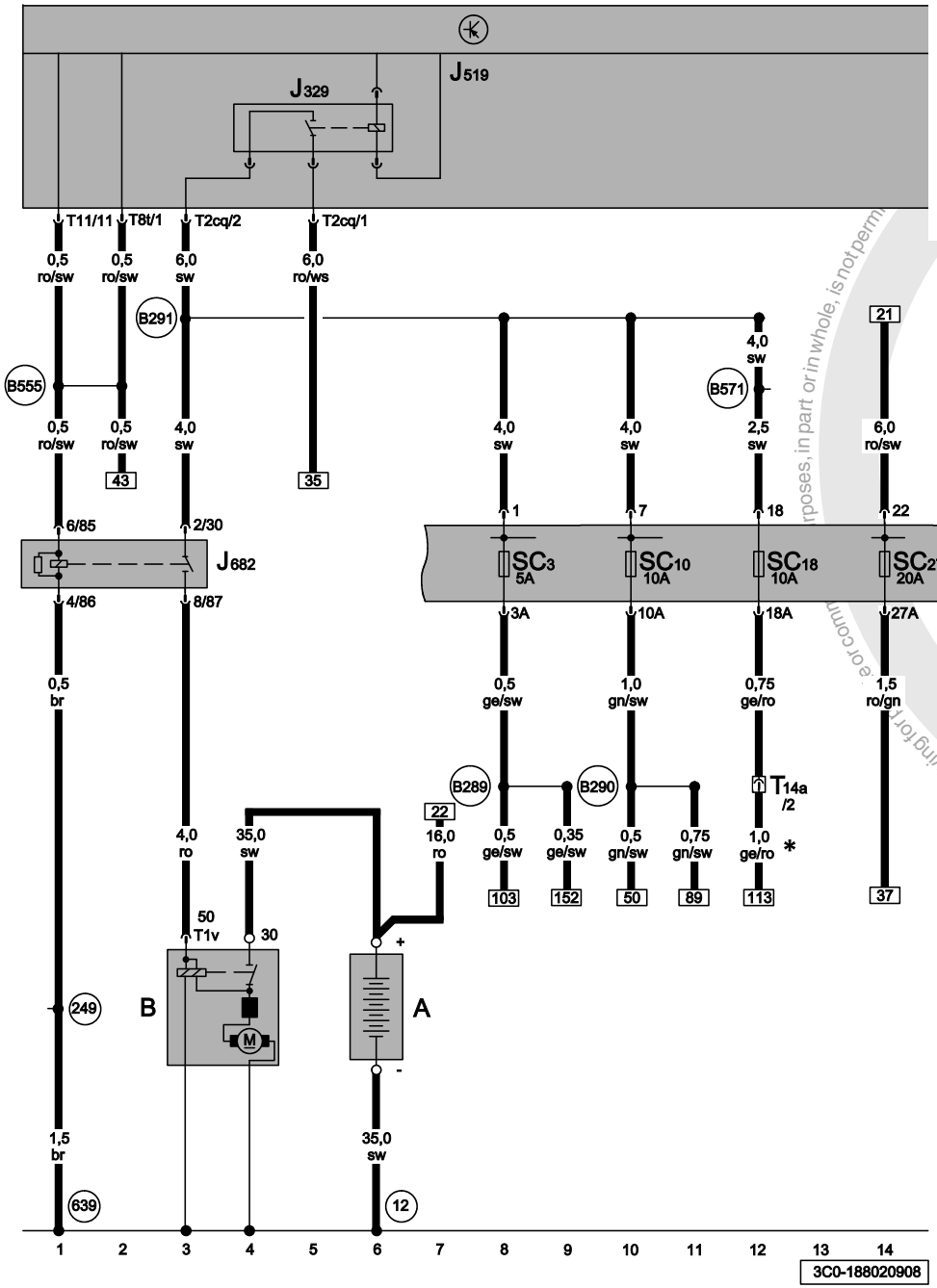
For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses SC

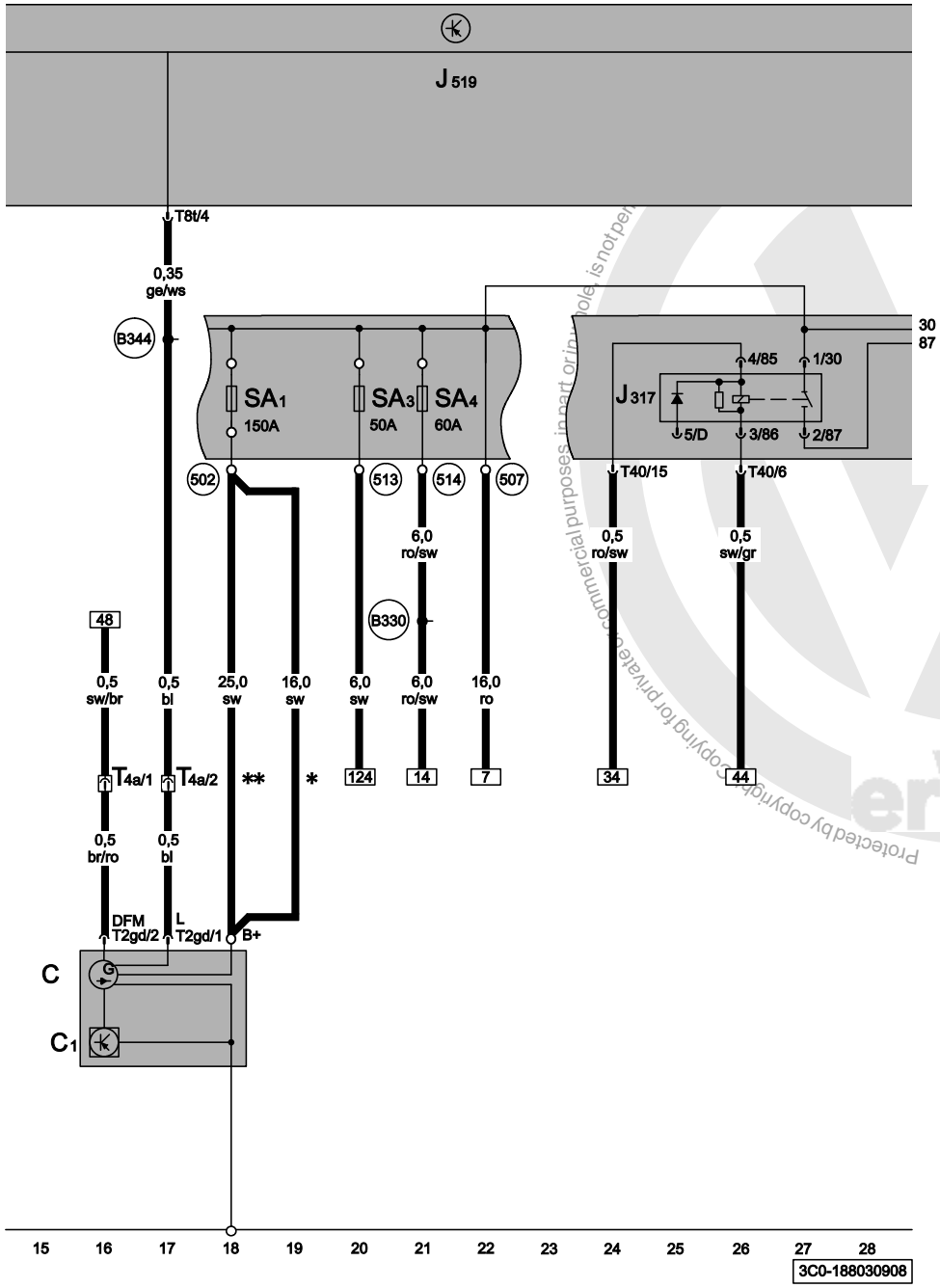


A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, on relay carrier on left under dash panel
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
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Alternator, terminal 30 voltage supply relay, fuses SA

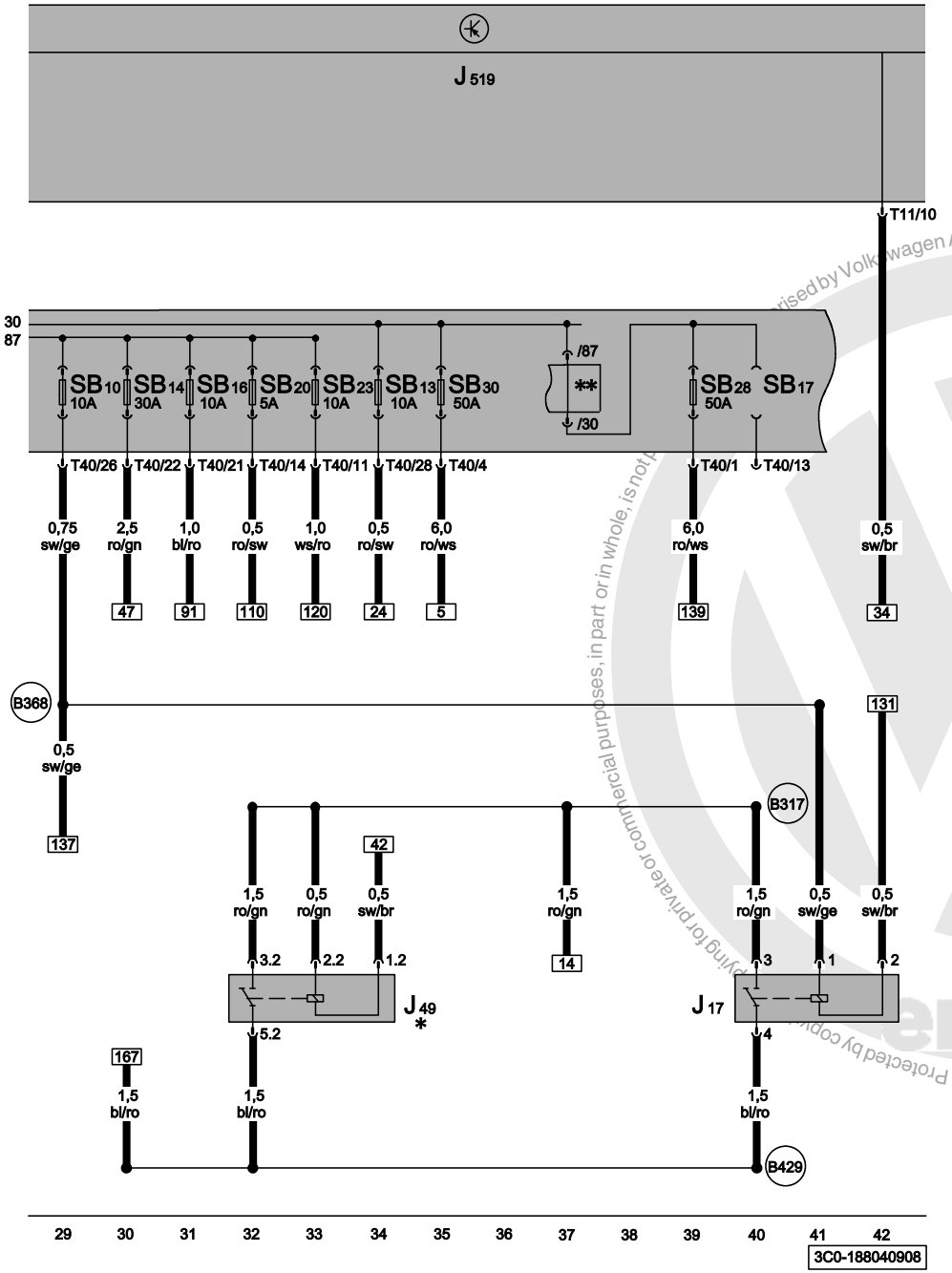


C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 110 A alternator
**	Only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Fuel pump relay, electric fuel pump 2 relay, fuses SB



J17 Fuel pump relay, on relay carrier on left under dash panel (404)
J49 Electric fuel pump 2 relay, on relay carrier on left under dash panel (404)
J519 Onboard supply control unit
SB10 Fuse 10 on fuse holder B
SB13 Fuse 13 on fuse holder B
SB14 Fuse 14 on fuse holder B
SB16 Fuse 16 on fuse holder B
SB17 Fuse 17 on fuse holder B
SB20 Fuse 20 on fuse holder B
SB23 Fuse 23 on fuse holder B
SB28 Fuse 28 on fuse holder B
SB30 Fuse 30 on fuse holder B
T11 11-pin connector
T40 40-pin connector

B317 Connection 3 (30a), in main wiring harness

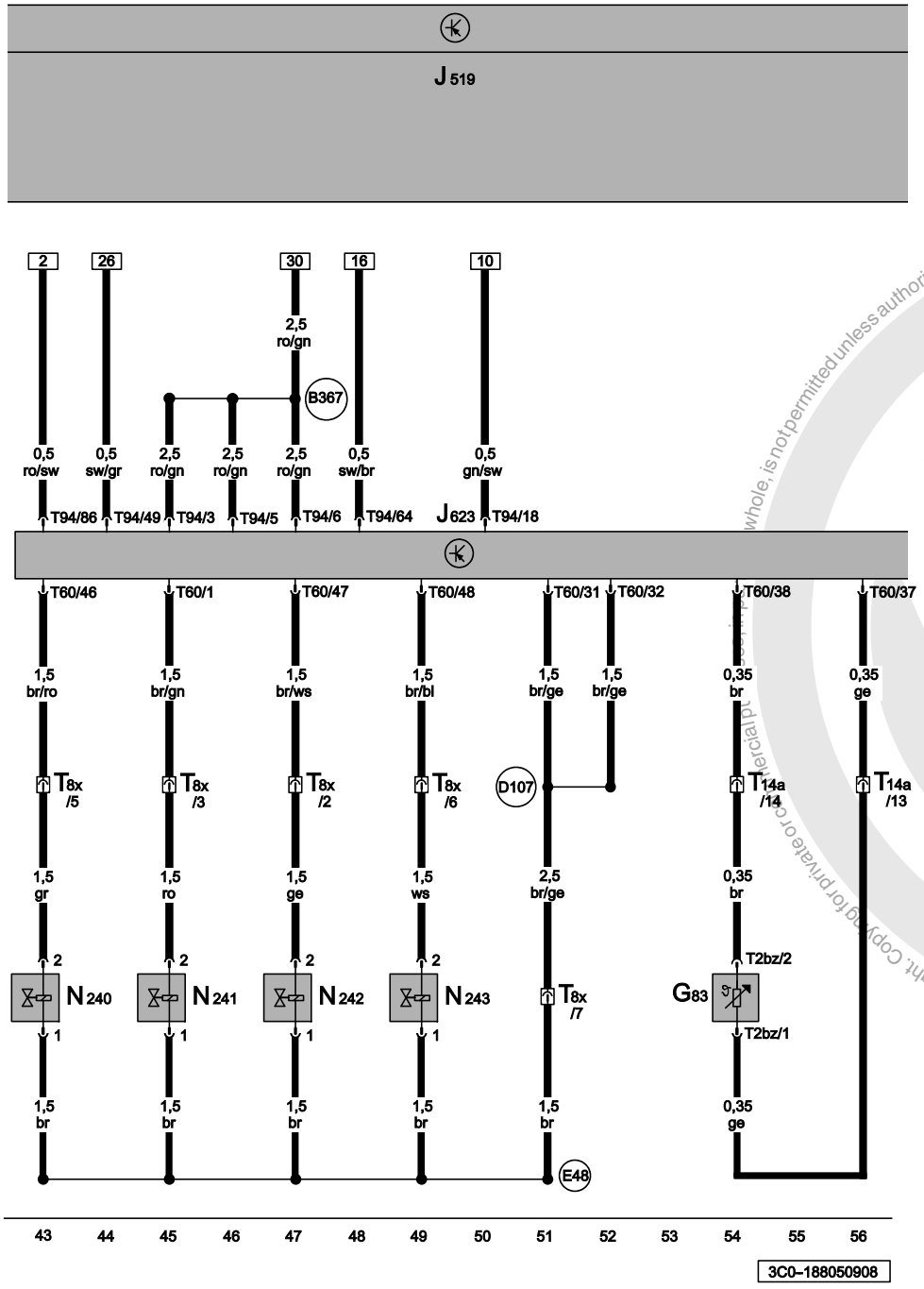
B368 Connection 19 (87a), in main wiring harness

B429 Connection (EFPR), in main wiring harness

* Only with auxiliary coolant heater
** Push-in bridge on relay slot R1

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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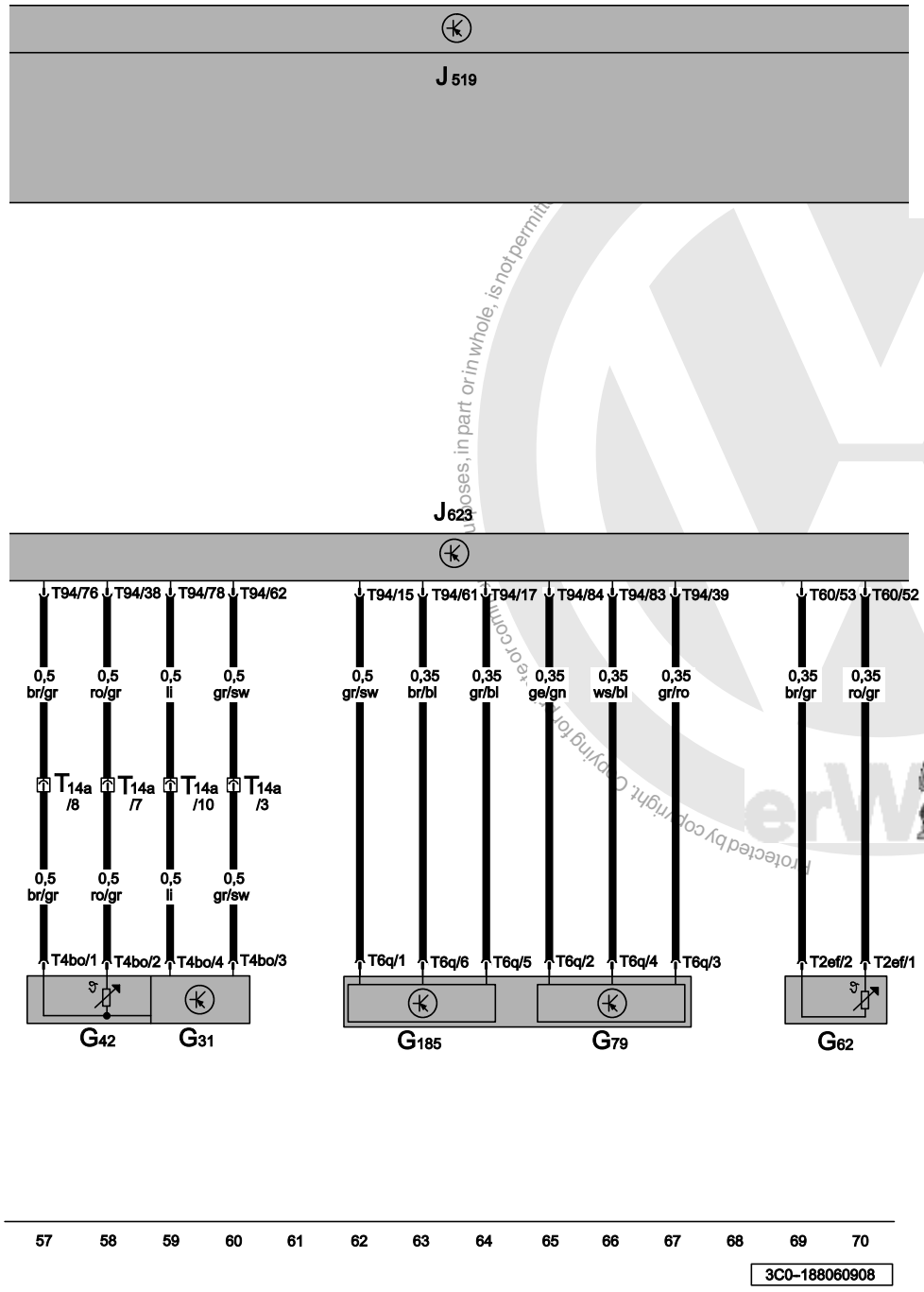


Engine control unit, radiator outlet coolant temperature sender, unit injector valves for cylinders 1-4

G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
T2bz	2-pin connector
T8x	8-pin connector, near injectors
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D107	Connection 5, in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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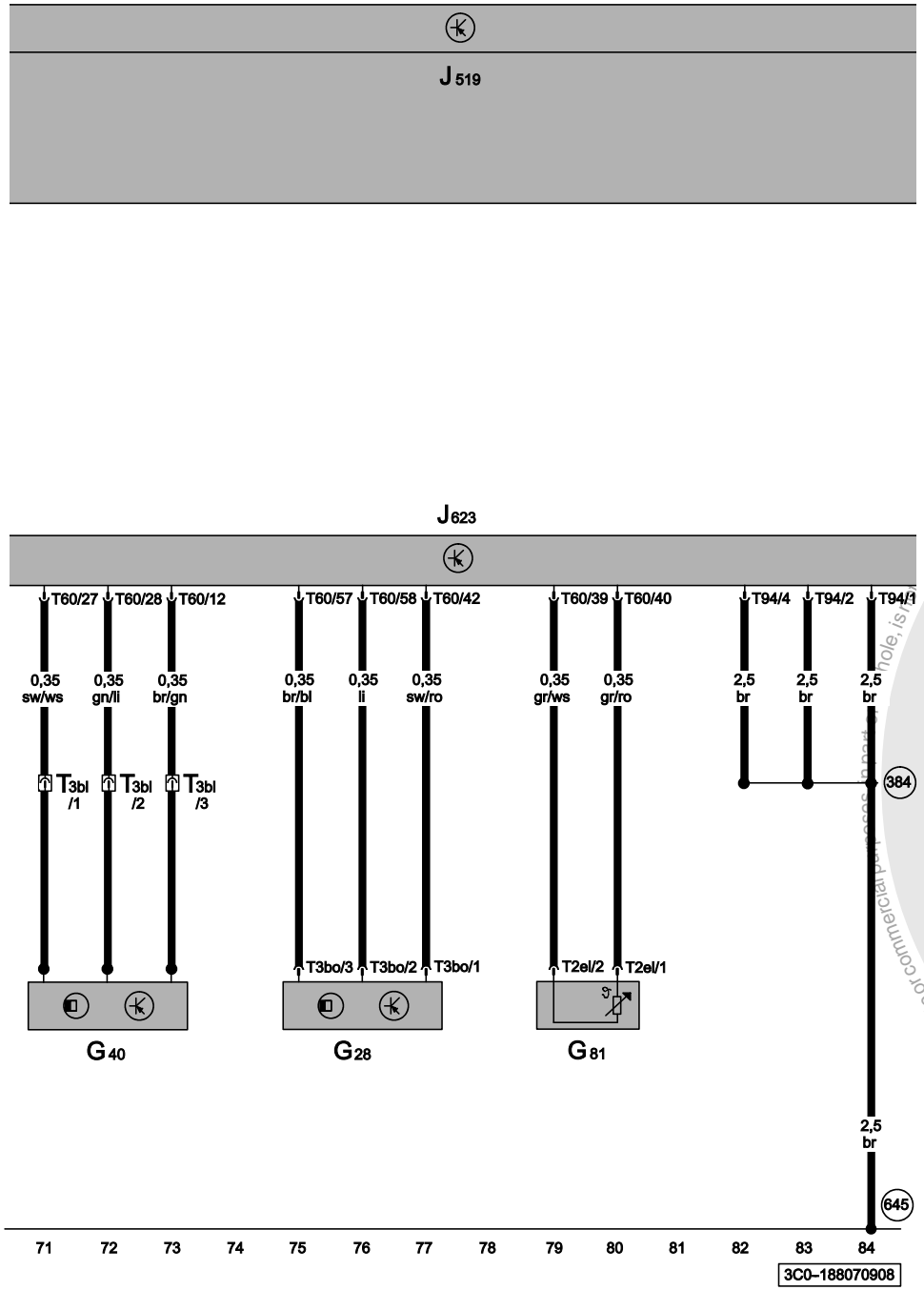


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender, coolant temperature sender, accelerator position sender 2

G31	Charge air pressure sender
G42	Intake air temperature sender
G62	Coolant temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T2ef	2-pin connector, black
T4bo	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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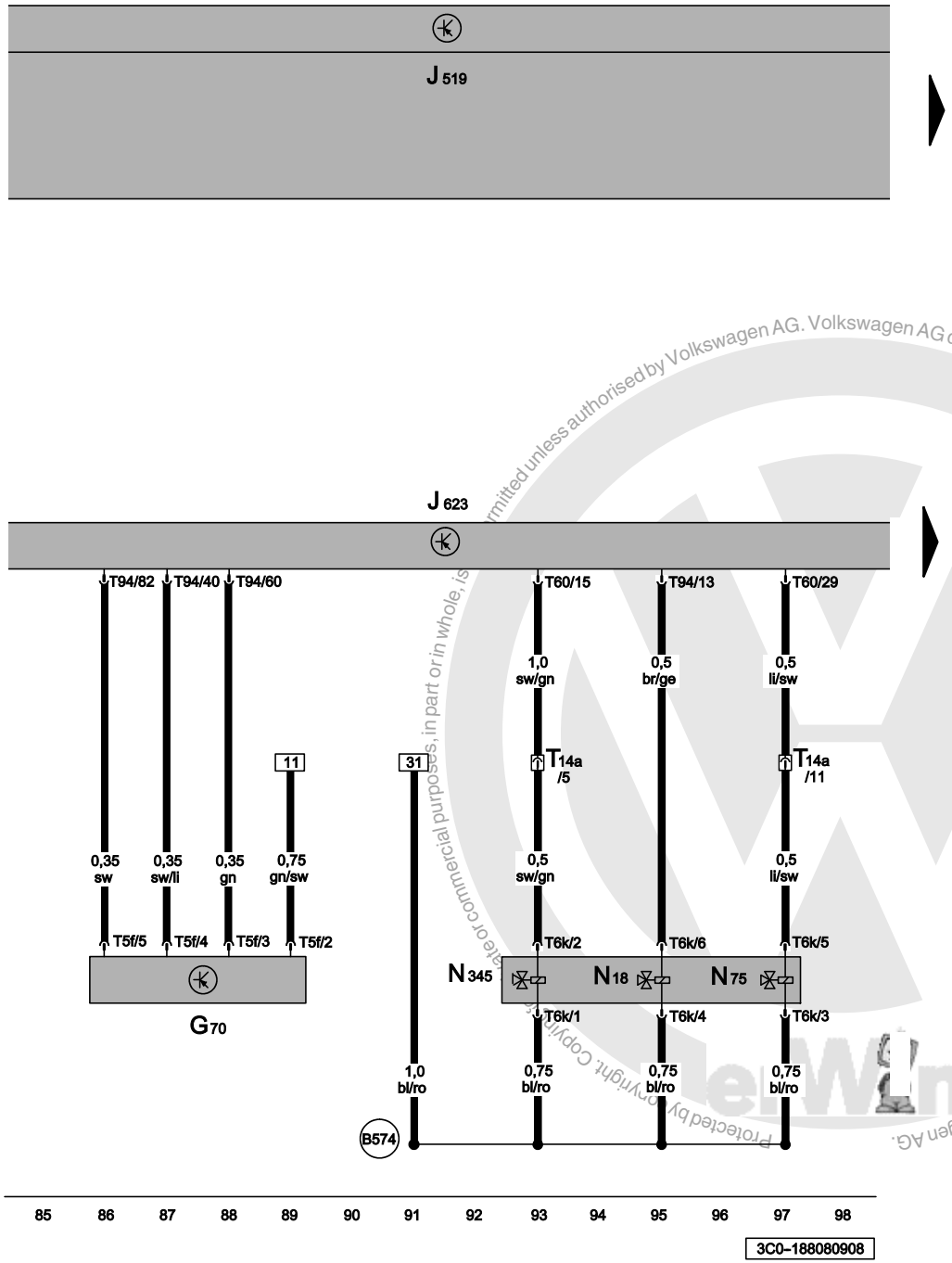


Engine control unit, engine speed sender, Hall sender, fuel temperature sender

G28	Engine speed sender
G40	Hall sender
G81	Fuel temperature sender
J519	Onboard supply control unit
J623	Engine control unit
T2el	2-pin connector, black
T3bl	3-pin connector, black
T3bo	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
384	Earth connection 19, in main wiring harness
645	Earth point 1, on bulkhead

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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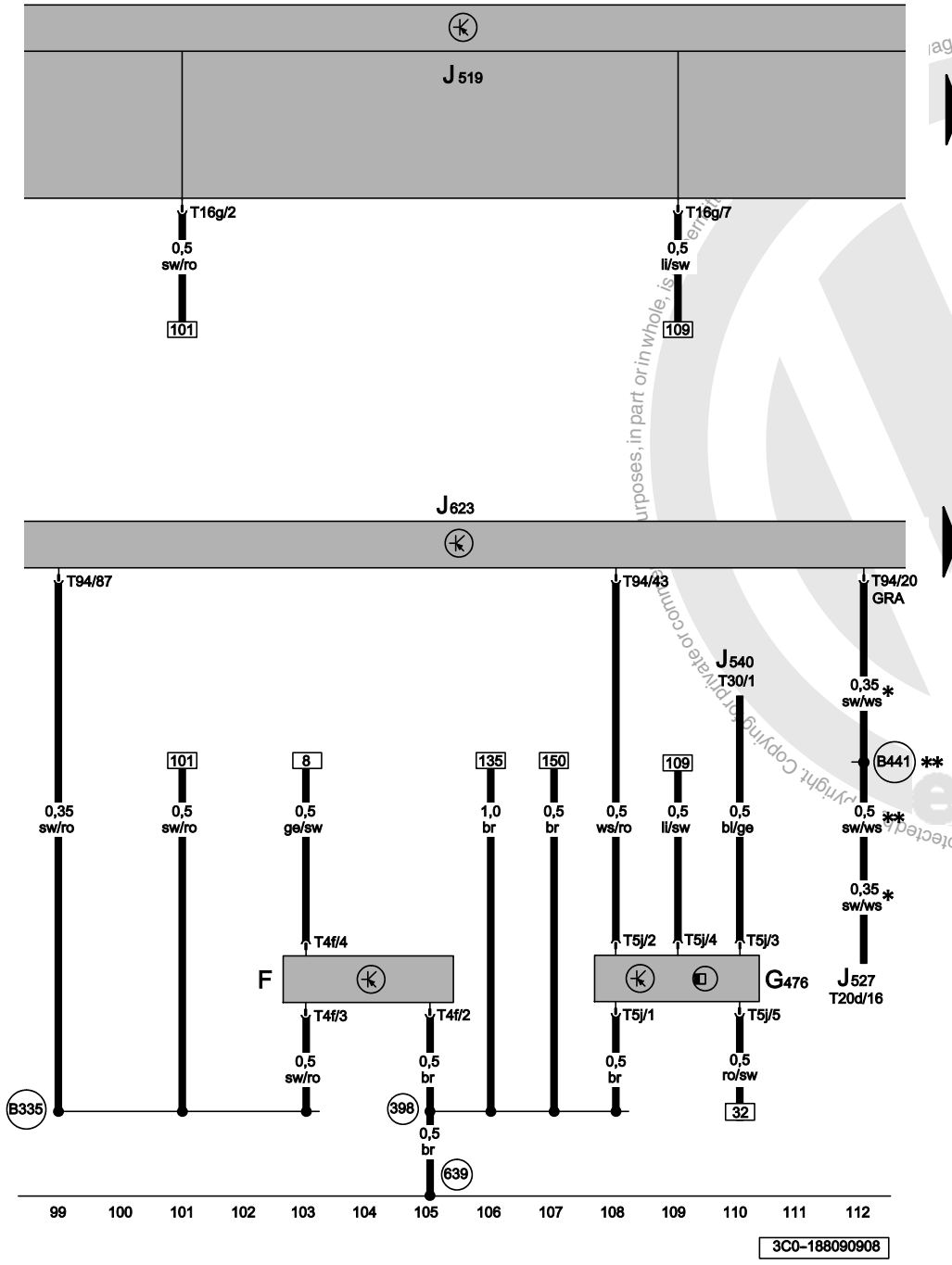


Engine control unit, exhaust gas recirculation valve, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler changeover valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler changeover valve
T5f	5-pin connector
T6k	6-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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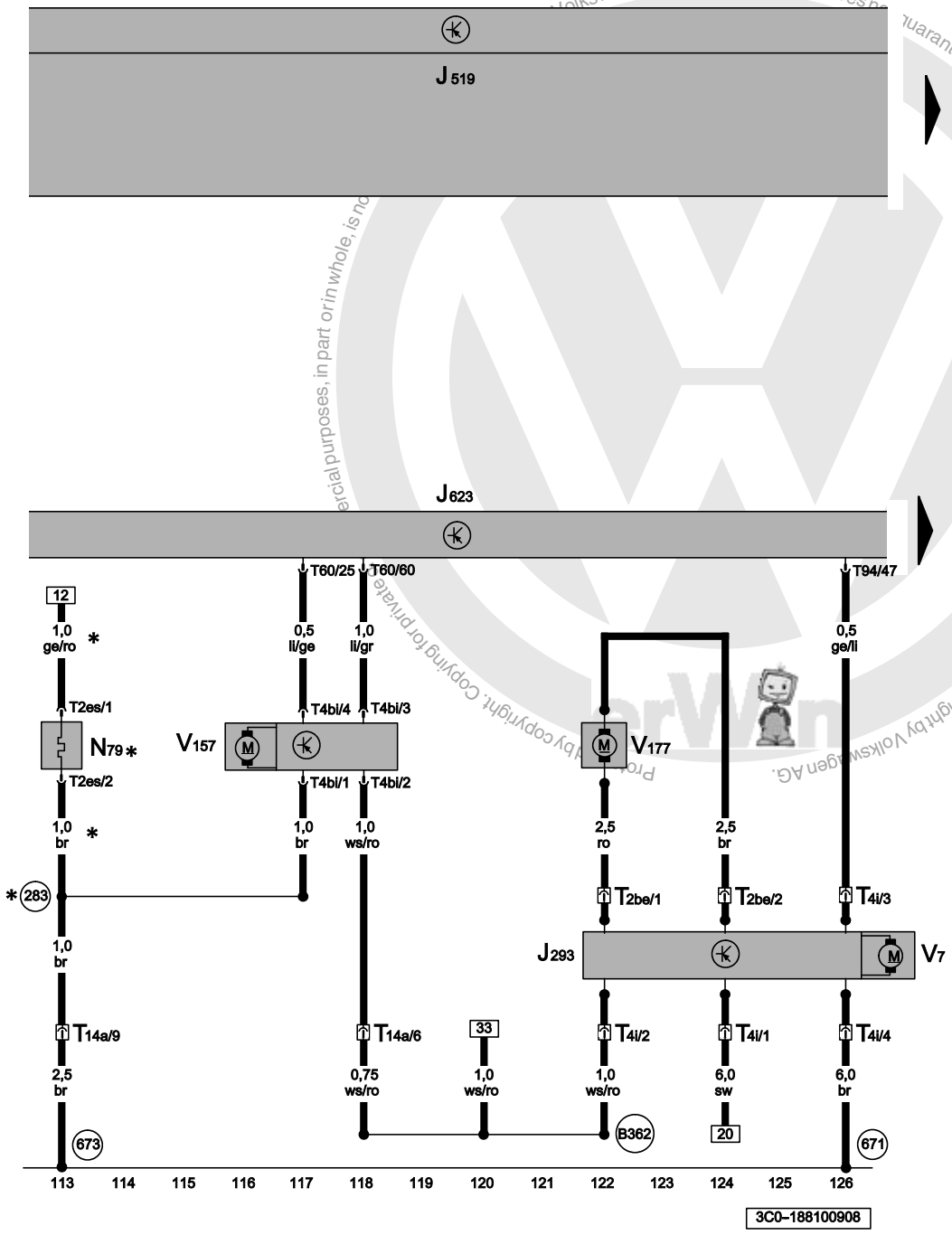


Engine control unit, brake light switch, clutch position sender

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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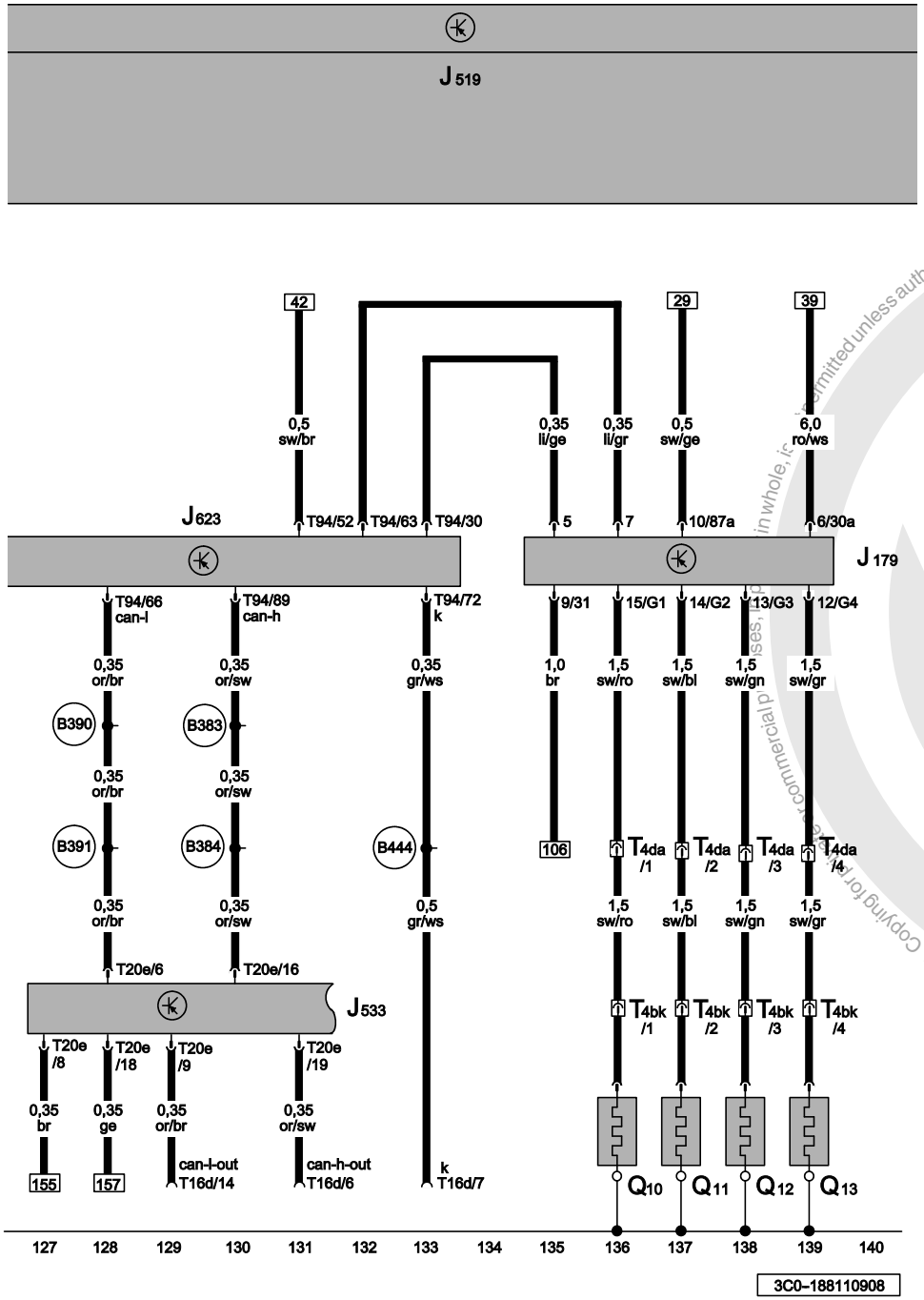


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Engine control unit, crankcase breather heater element, radiator fan, intake manifold flap motor

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
T2be	2-pin connector, on lock carrier
T2es	2-pin connector
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T4bi	4-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V157	Intake manifold flap motor
V177	Radiator fan 2
283	Earth point 2, engine prewiring harness
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B362	Connection 13 (87a), in main wiring harness
*	Only models for cold countries

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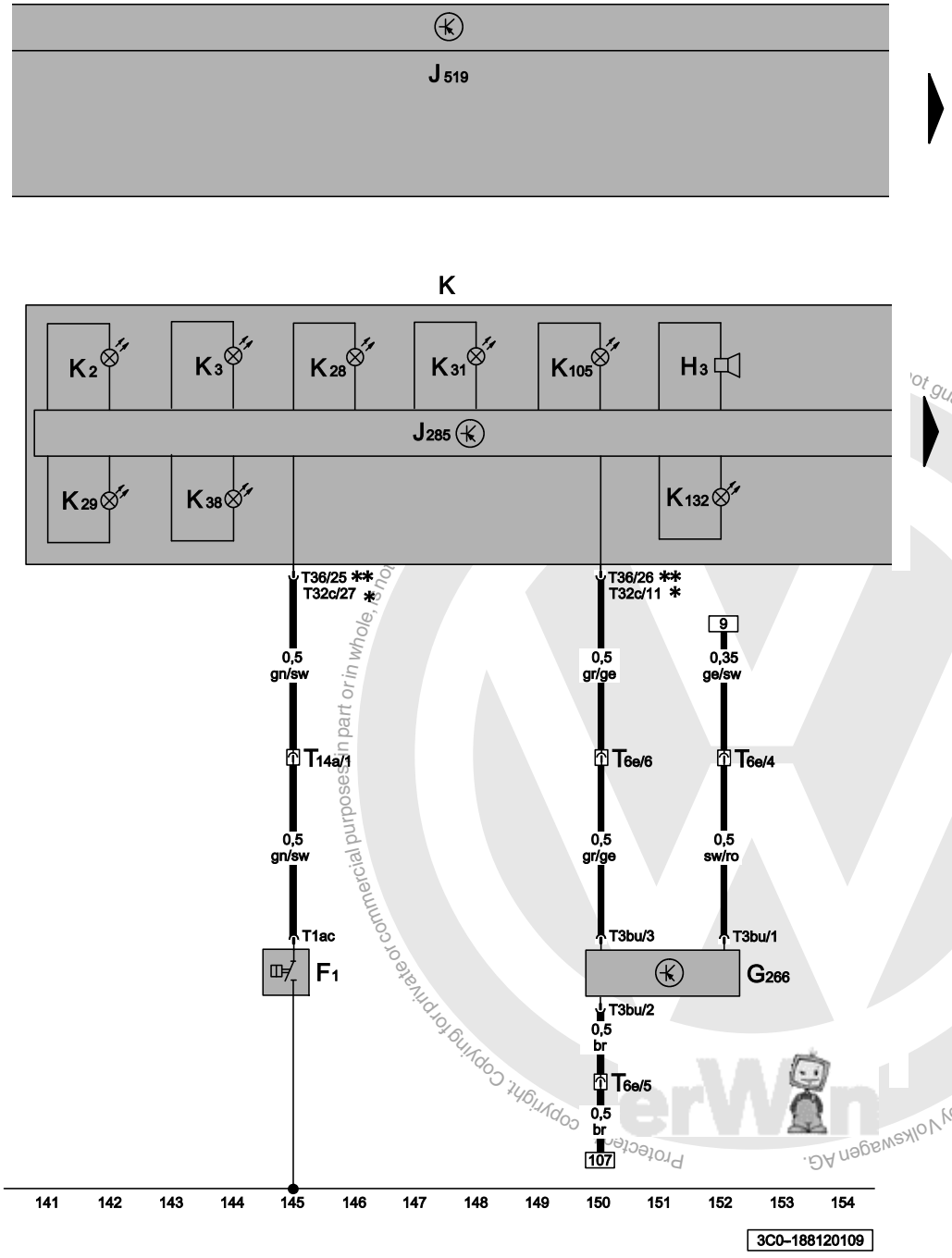


Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T4bk	4-pin connector, coupling point glow plugs
T4da	4-pin connector, black
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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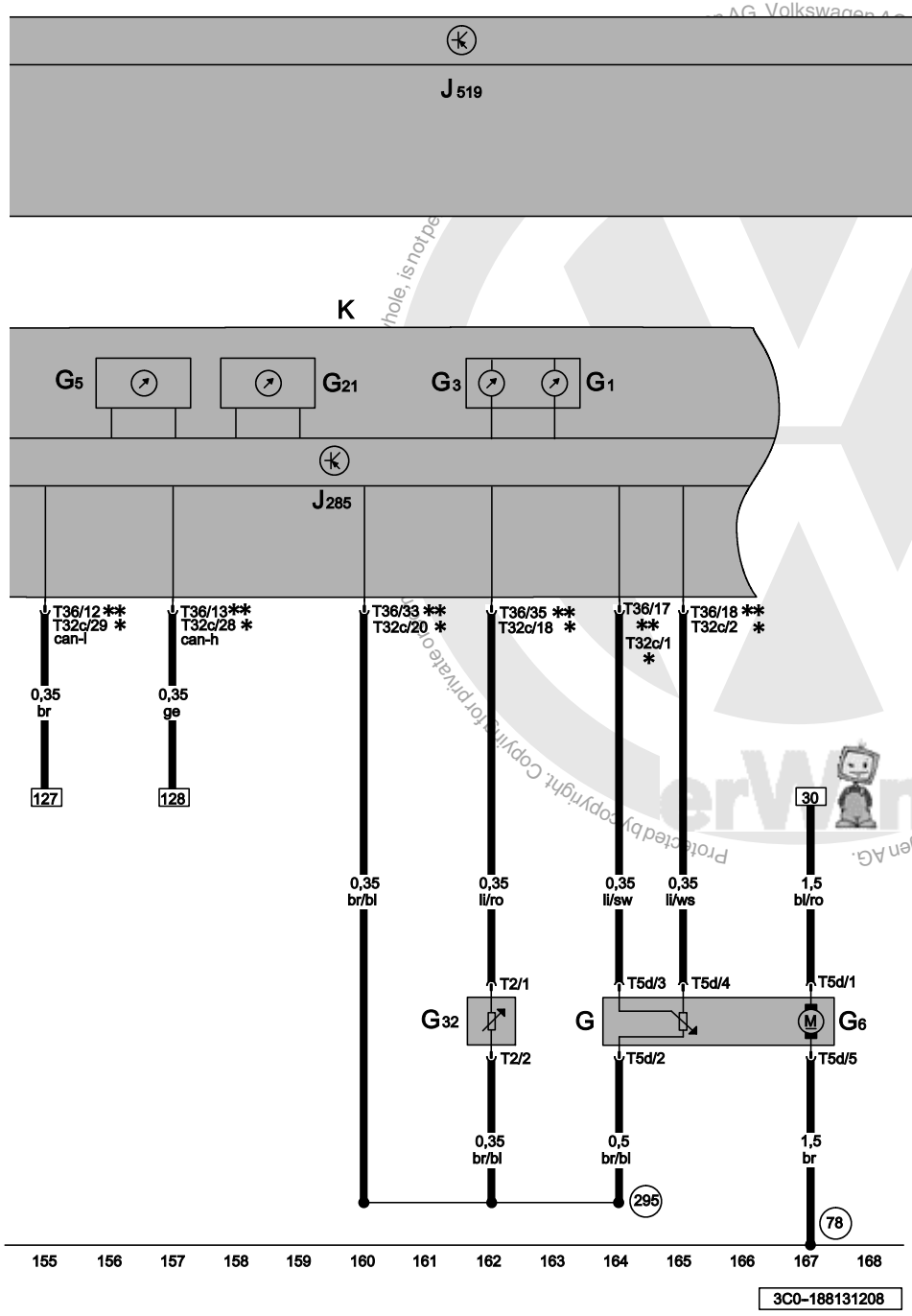


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
*	Applicable from November 2008
**	Applicable up to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Dash panel insert, rev counter, speedometer, fuel gauge, fuel system pressurisation pump, coolant shortage indicator sender, coolant temperature gauge

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T5d	5-pin connector
T32c	32-pin connector
T36	36-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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rs	=	pink

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1.9 l/77 kW - turbo diesel, engine code BLS

From May 2008

2.0 l/103 kW - turbo diesel, engine code BMP

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

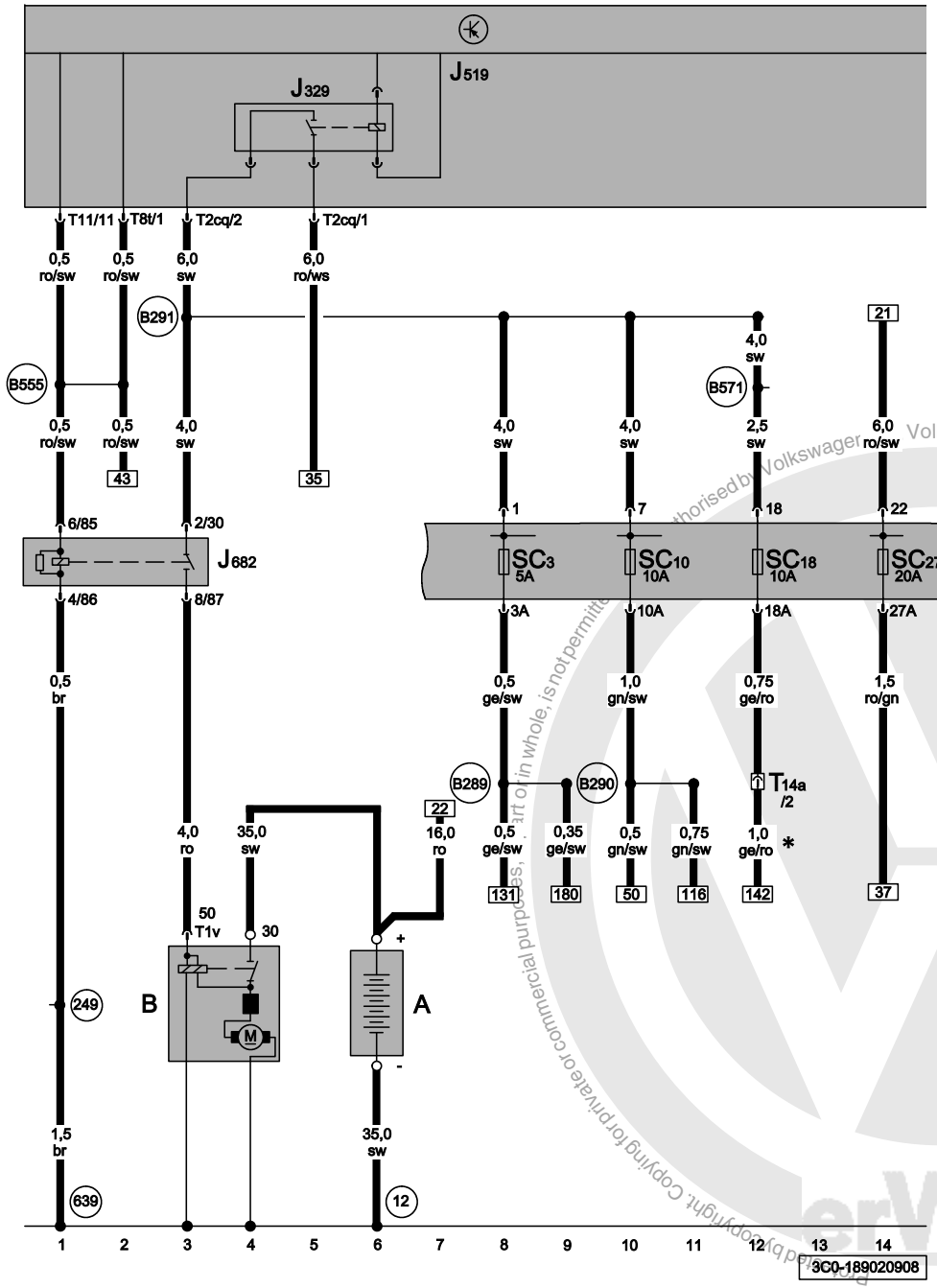
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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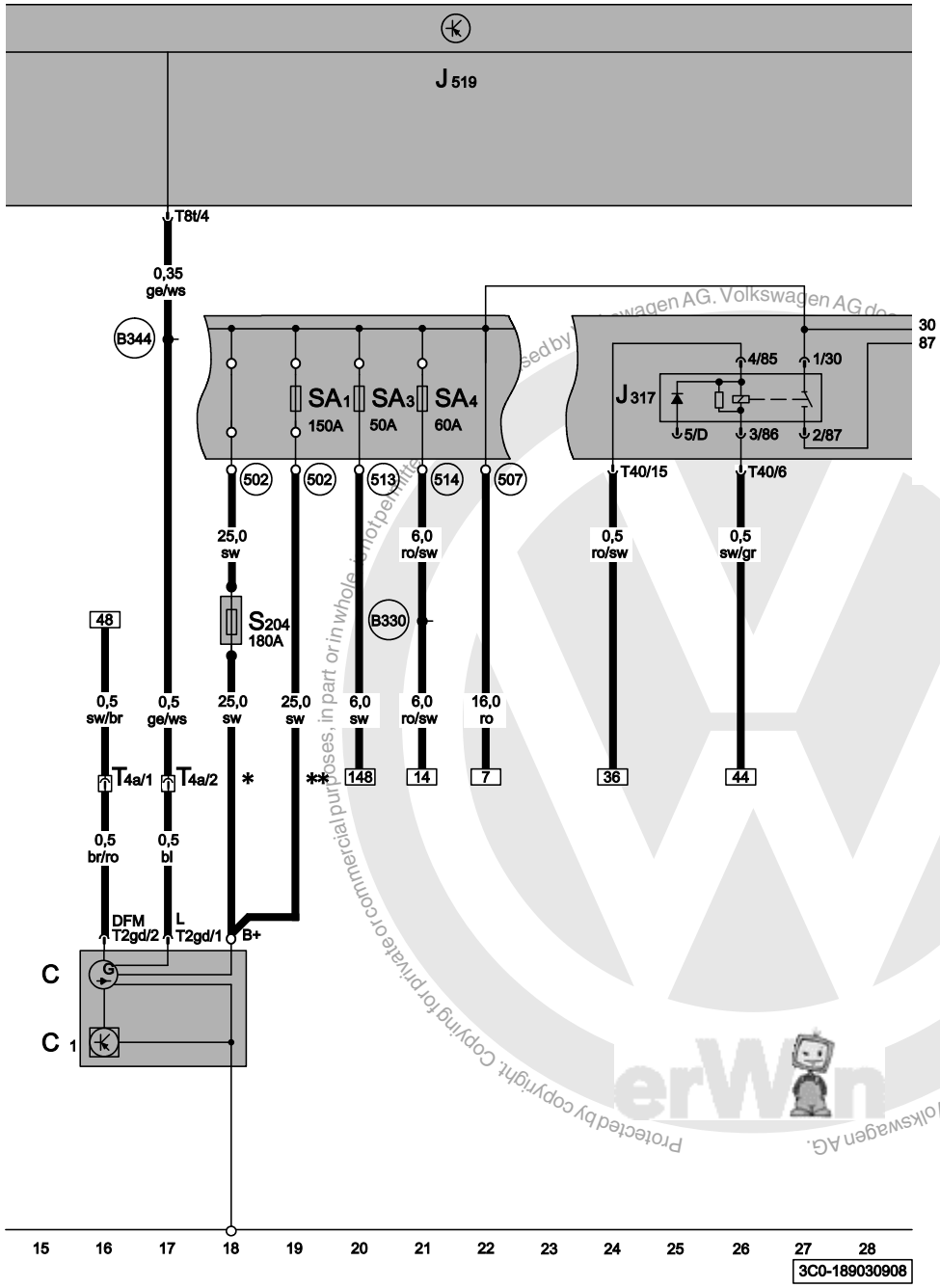


Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses SC

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, on relay carrier on left under dash panel
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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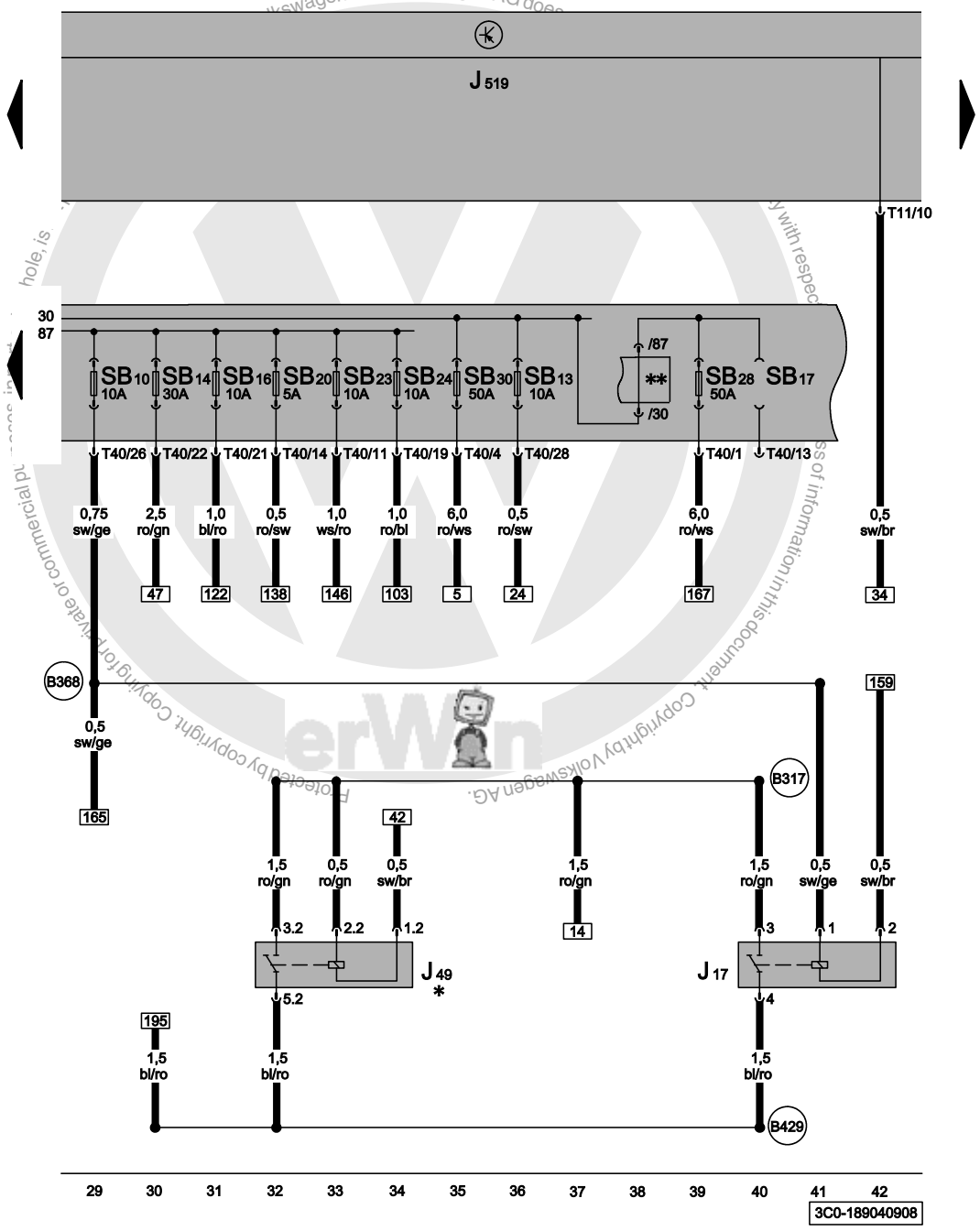


Alternator, terminal 30 voltage supply relay, fuses SA, fuse 1 (30)

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 180 A alternator
**	Only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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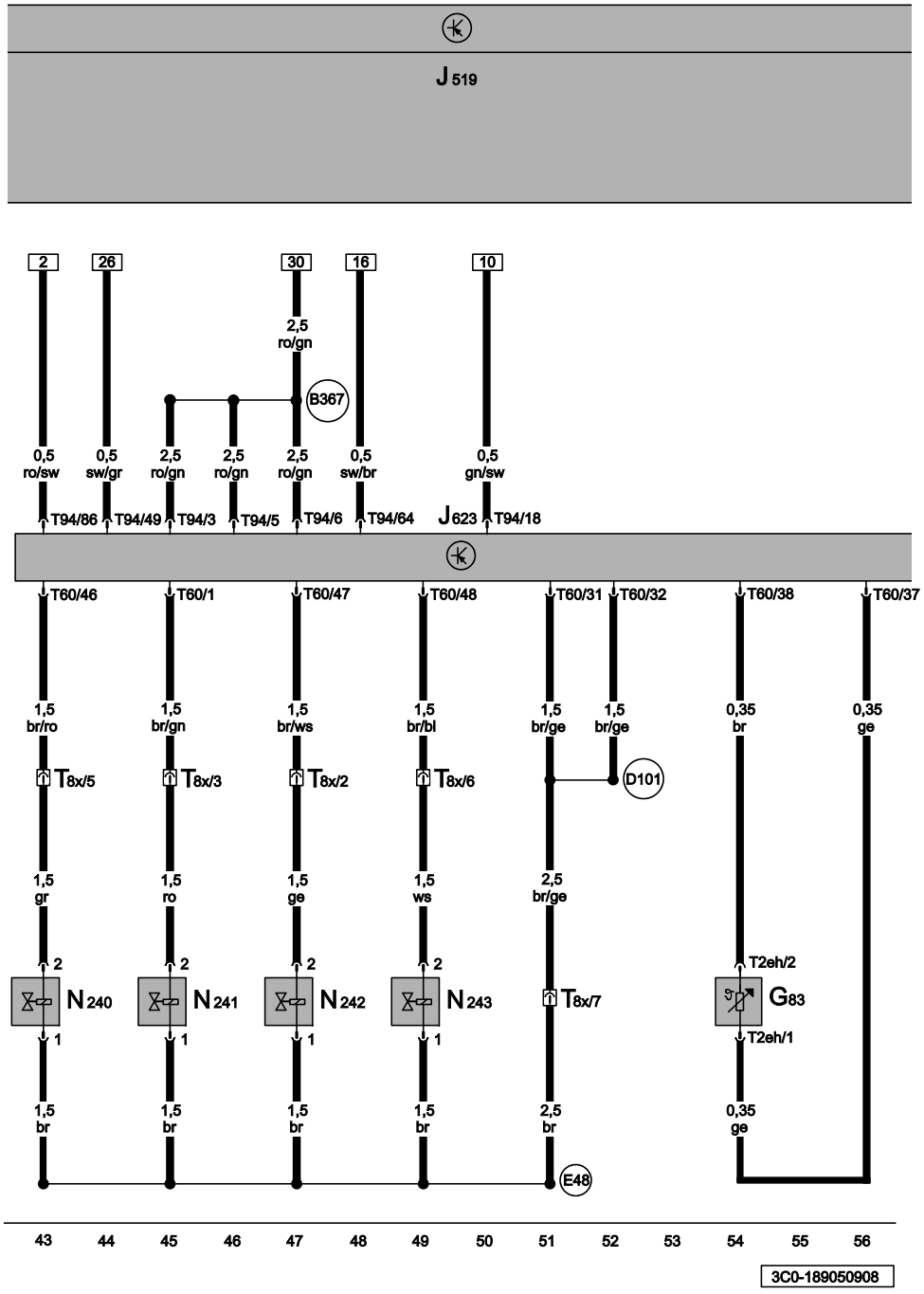


Fuel pump relay, electric fuel pump 2 relay, fuses SB

J17	Fuel pump relay, on relay carrier on left under dash panel (404)
J49	Electric fuel pump 2 relay, on relay carrier on left under dash panel (404)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only with auxiliary coolant heater
**	Push-in bridge on relay slot R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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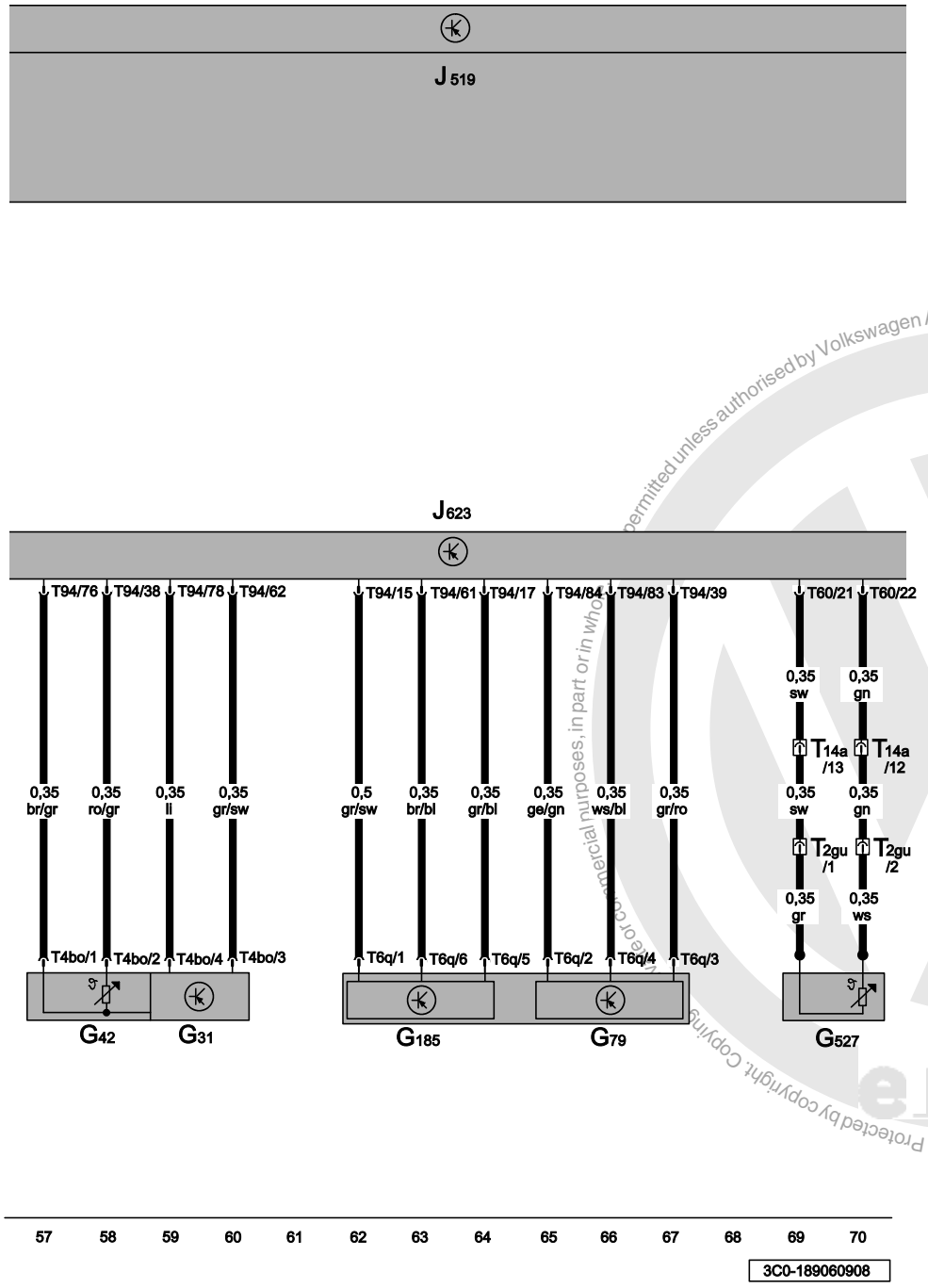


Engine control unit, radiator outlet coolant temperature sender, unit injector valves for cylinders 1-4

G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
T2eh	2-pin connector
T8x	8-pin connector, near injectors
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D101	Connection 1, in engine compartment wiring harness
E48	Connection (injectors), in injection system wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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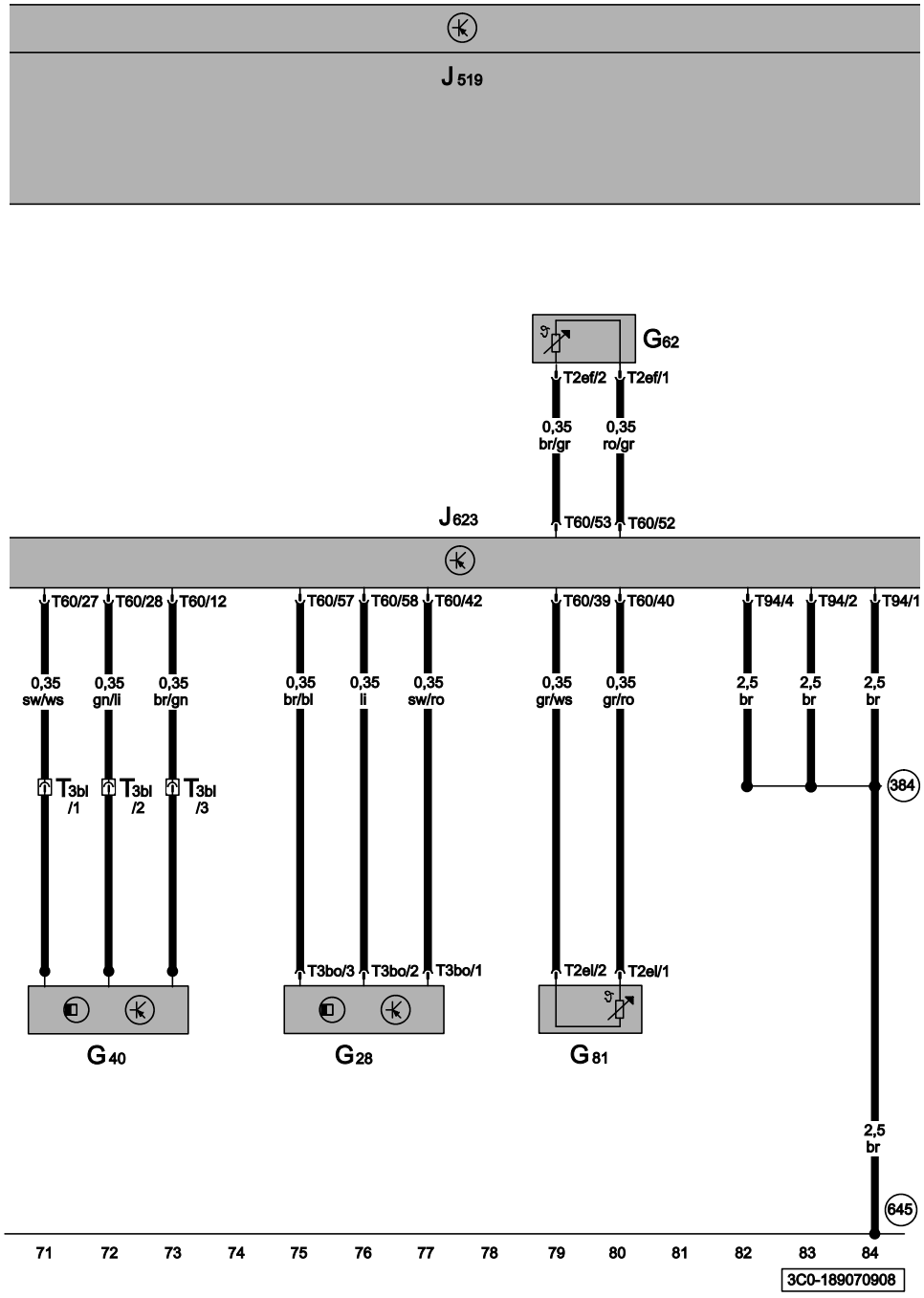


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender, temperature sender after particulate filter, accelerator position sender 2

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G527	Temperature sender after particulate filter
J519	Onboard supply control unit
J623	Engine control unit
T2gu	2-pin connector
T4bo	4-pin connector, black
T6q	6-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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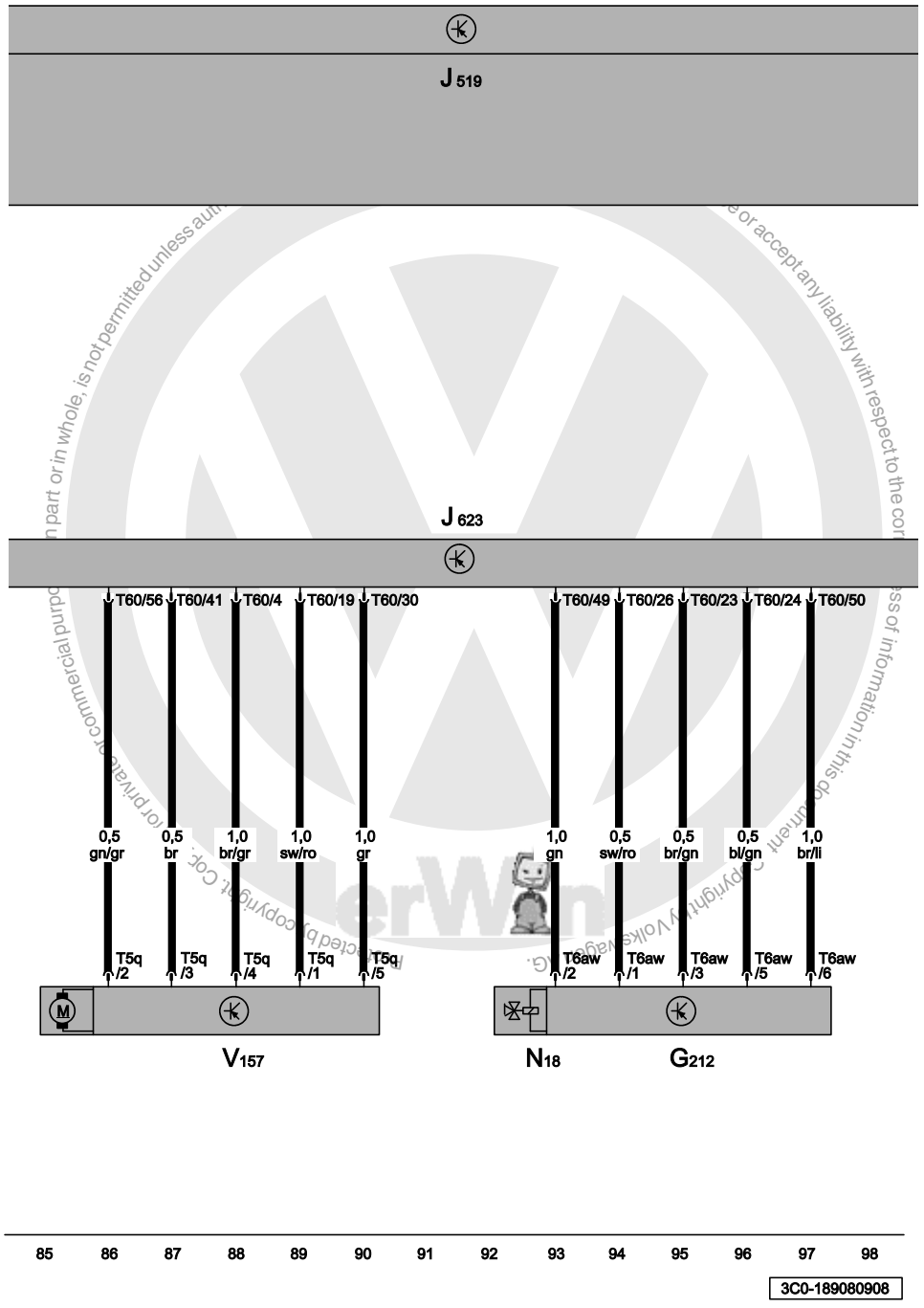


Engine control unit, engine speed sender, Hall sender, fuel temperature sender, coolant temperature sender

G28	Engine speed sender
G40	Hall sender
G62	Coolant temperature sender
G81	Fuel temperature sender
J519	Onboard supply control unit
J623	Engine control unit
T2ef	2-pin connector
T2el	2-pin connector, black
T3bl	3-pin connector, black
T3bo	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
(384)	Earth connection 19, in main wiring harness
(645)	Earth point 1, on bulkhead

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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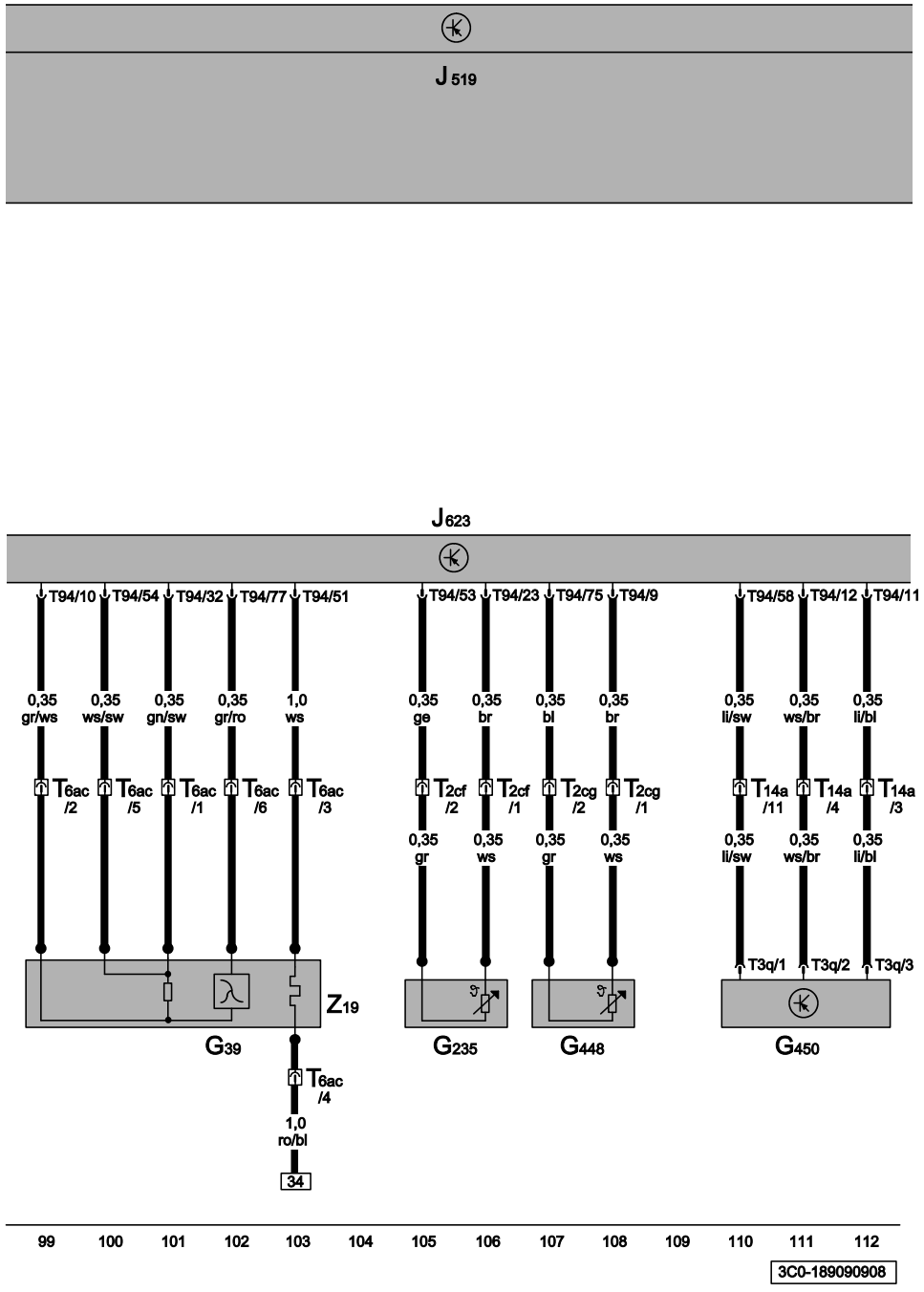


Engine control unit, intake manifold flap motor, exhaust gas recirculation potentiometer, exhaust gas recirculation valve

G212	Exhaust gas recirculation potentiometer
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
T5q	5-pin connector
T6aw	2-pin connector, grey
T60	60-pin connector
V157	Intake manifold flap motor

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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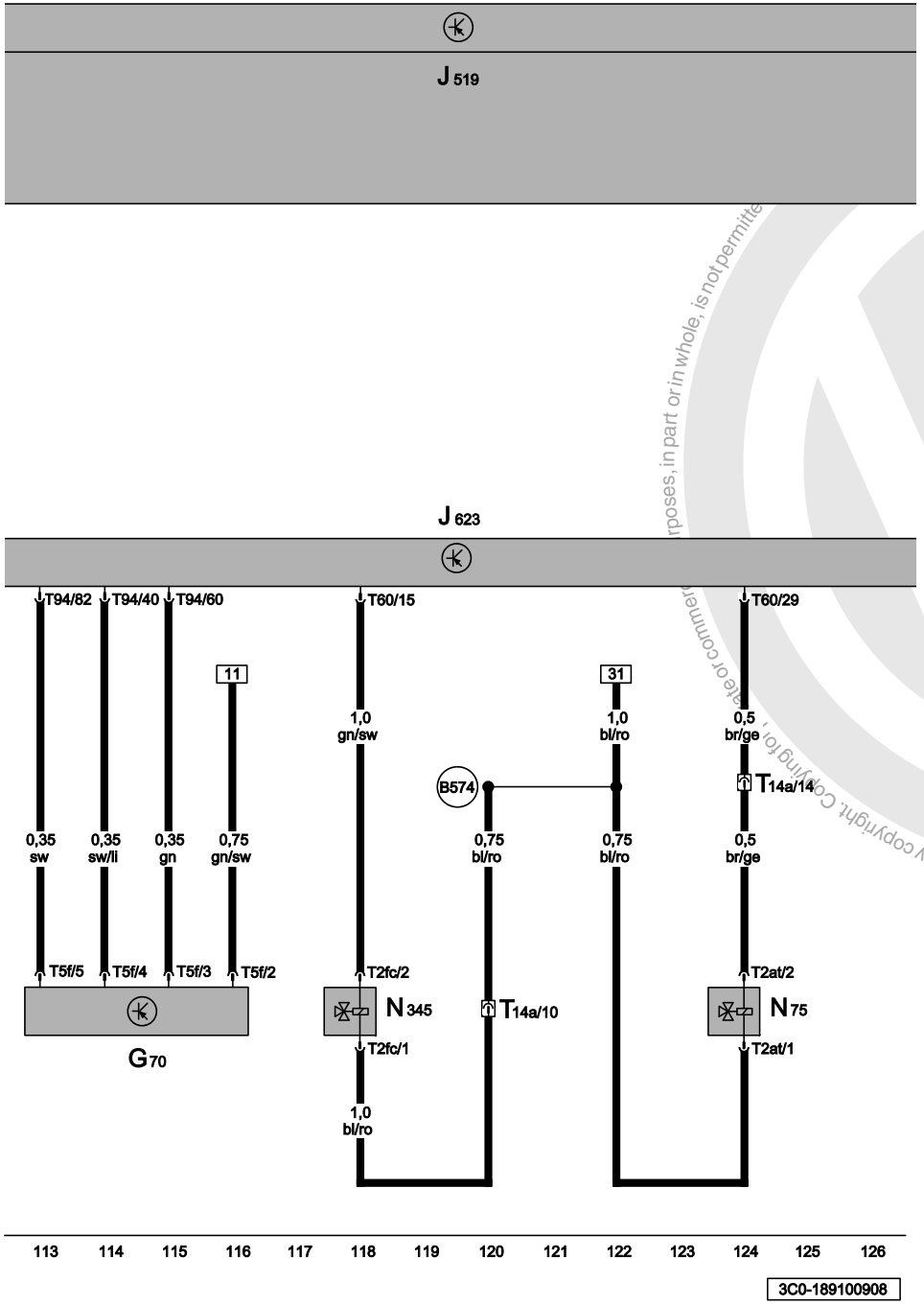


Engine control unit, Lambda probe, exhaust gas pressure sensor 1, exhaust gas temperature sender 1, exhaust gas temperature sender 2 for bank 1, Lambda probe heater

G39	Lambda probe
G235	Exhaust temperature sender 1
G448	Exhaust gas temperature sender 2 for bank 1
G450	Exhaust gas pressure sensor 1
J519	Onboard supply control unit
J623	Engine control unit
T2cf	2-pin connector
T2cg	2-pin connector
T3q	3-pin connector
T6ac	6-pin connector, black, coupling point for Lambda probe
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T94	94-pin connector
Z19	Lambda probe heater

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ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

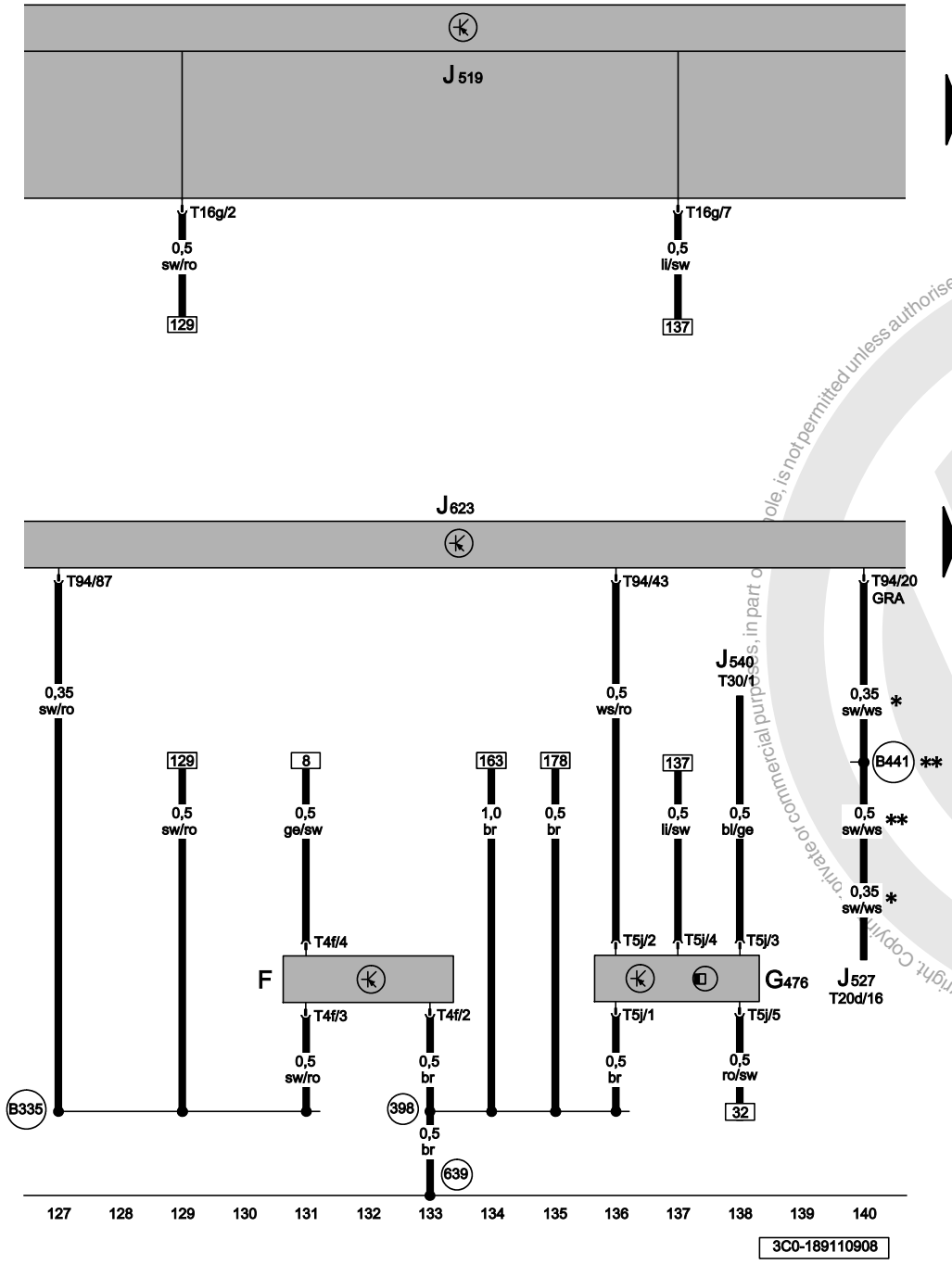


Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler changeover valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler changeover valve
T2at	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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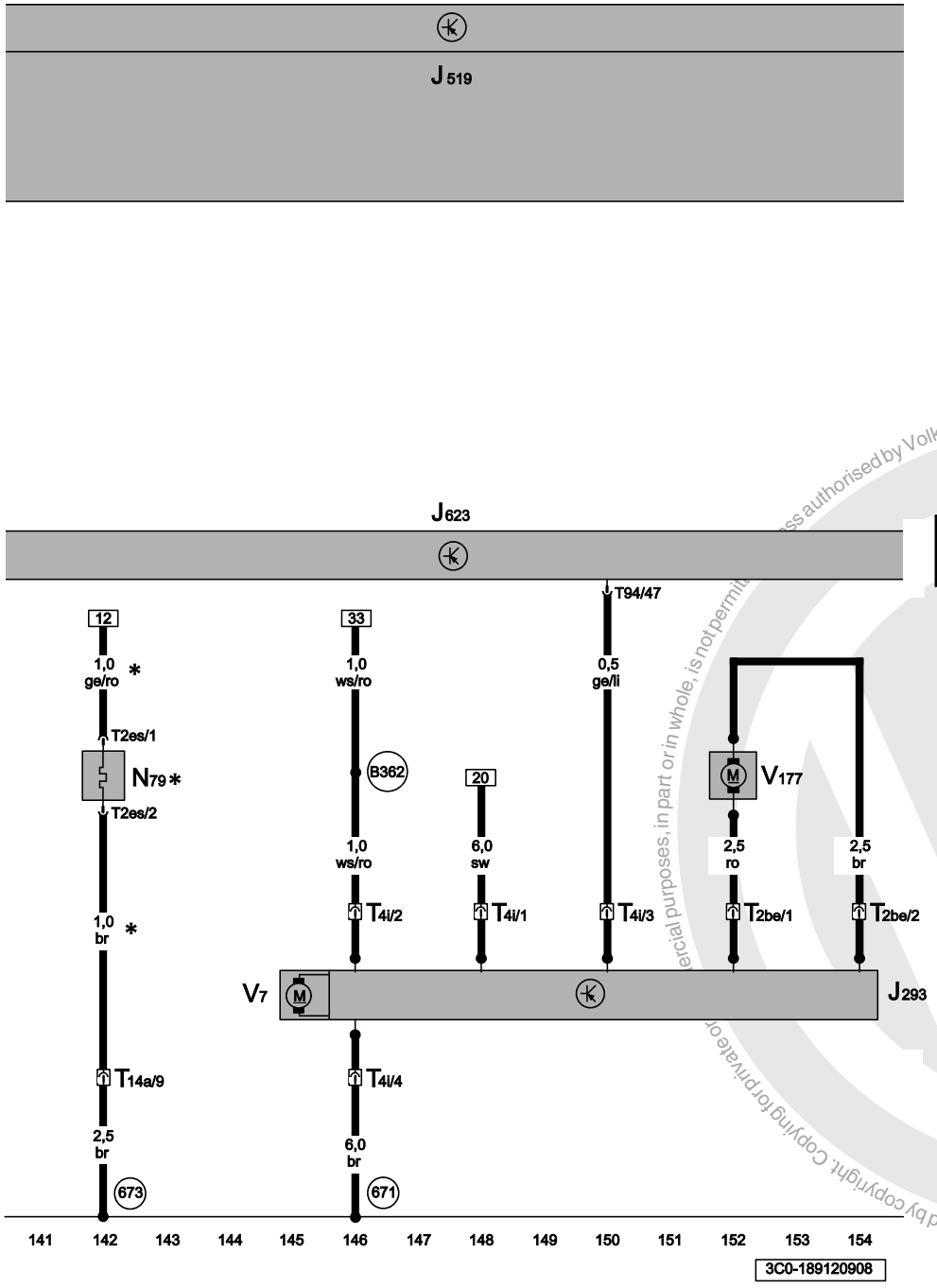


Engine control unit, brake light switch, clutch position sender

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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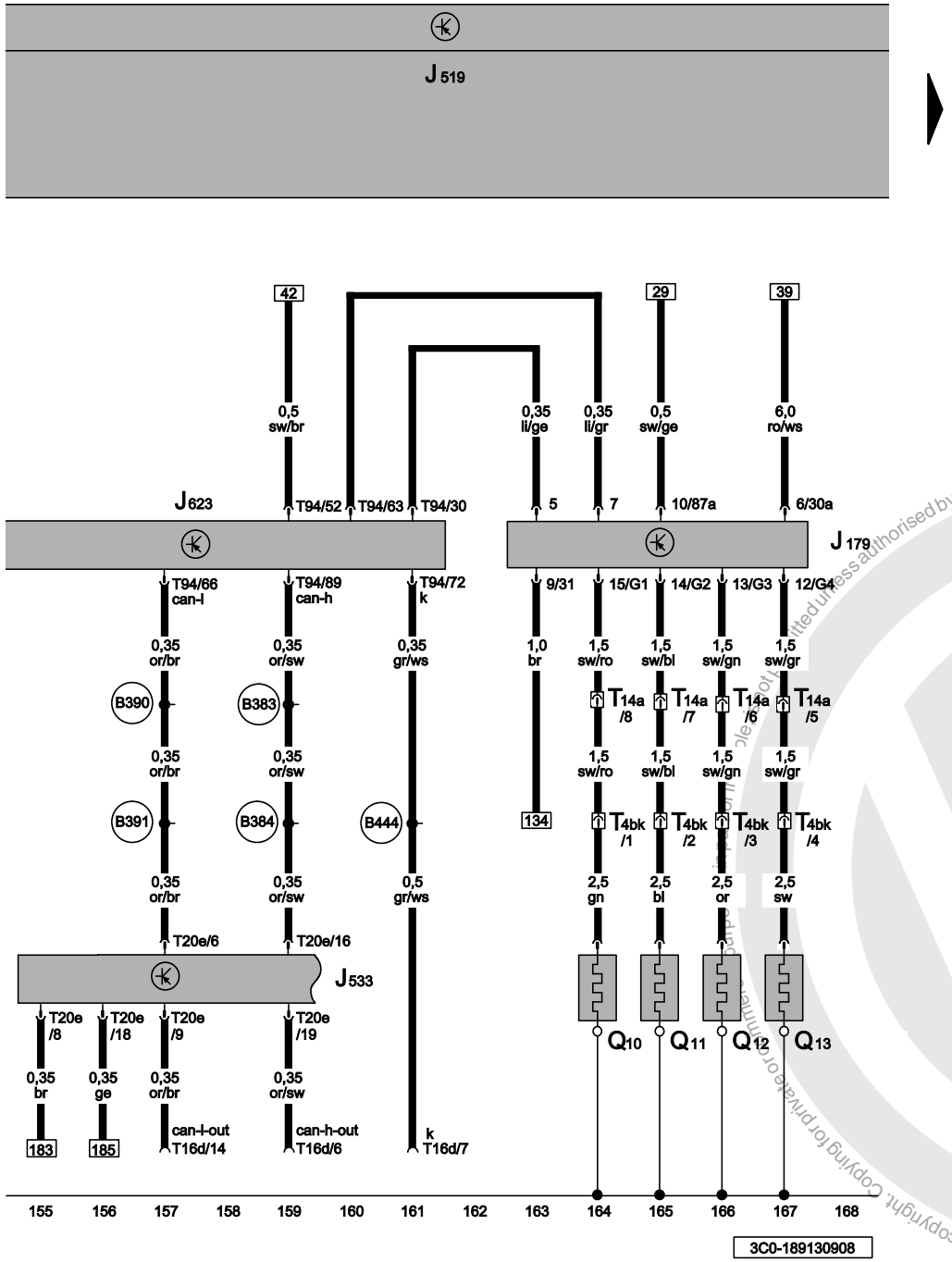


Engine control unit, crankcase breather heater element, radiator fan, radiator fan control unit

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
T2es	2-pin connector
T2be	2-pin connector, on lock carrier
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B362	Connection 13 (87a), in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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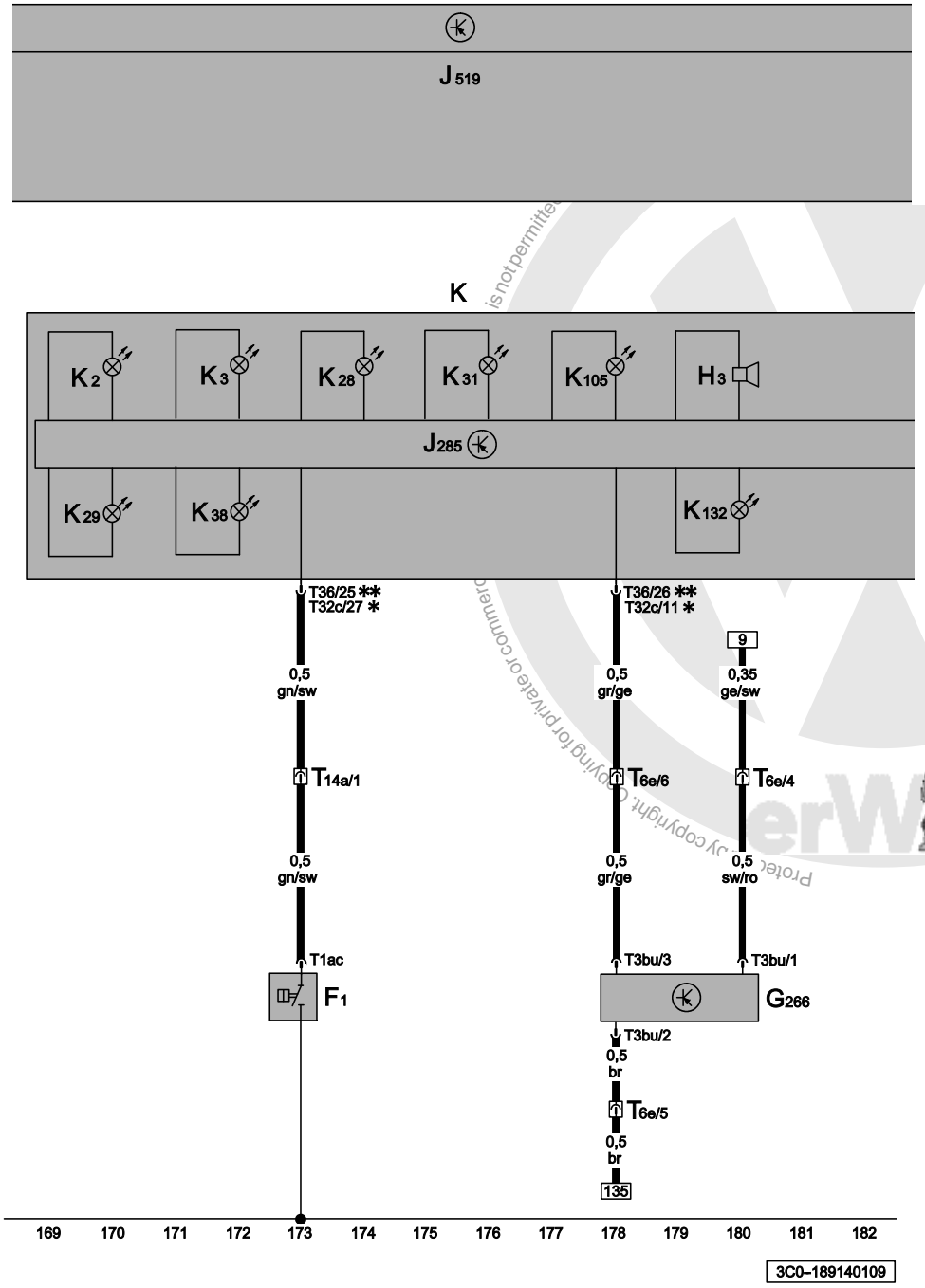


Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T4bk	4-pin connector, on left of cylinder head
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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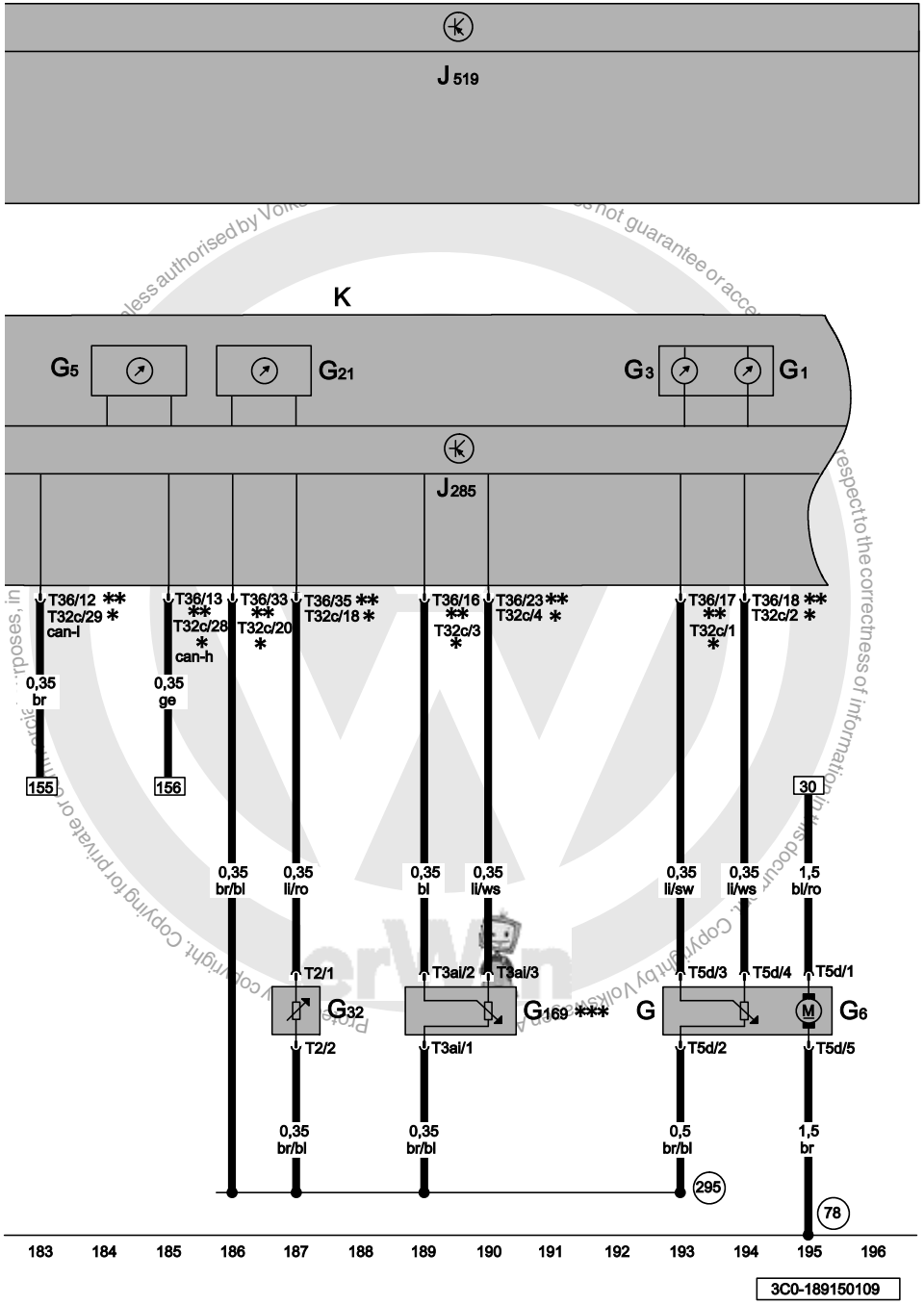


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
*	Applicable from November 2008
**	Applicable up to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Dash panel insert, rev counter, speedometer, coolant temperature gauge, fuel system pressurisation pump, fuel gauge

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T32c	32-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008
***	Only models with all-wheel drive

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2.0 l/125 kW - turbo diesel, engine codes BMR

From May 2008

2.0 l/120 kW - turbo diesel, engine code BUZ

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

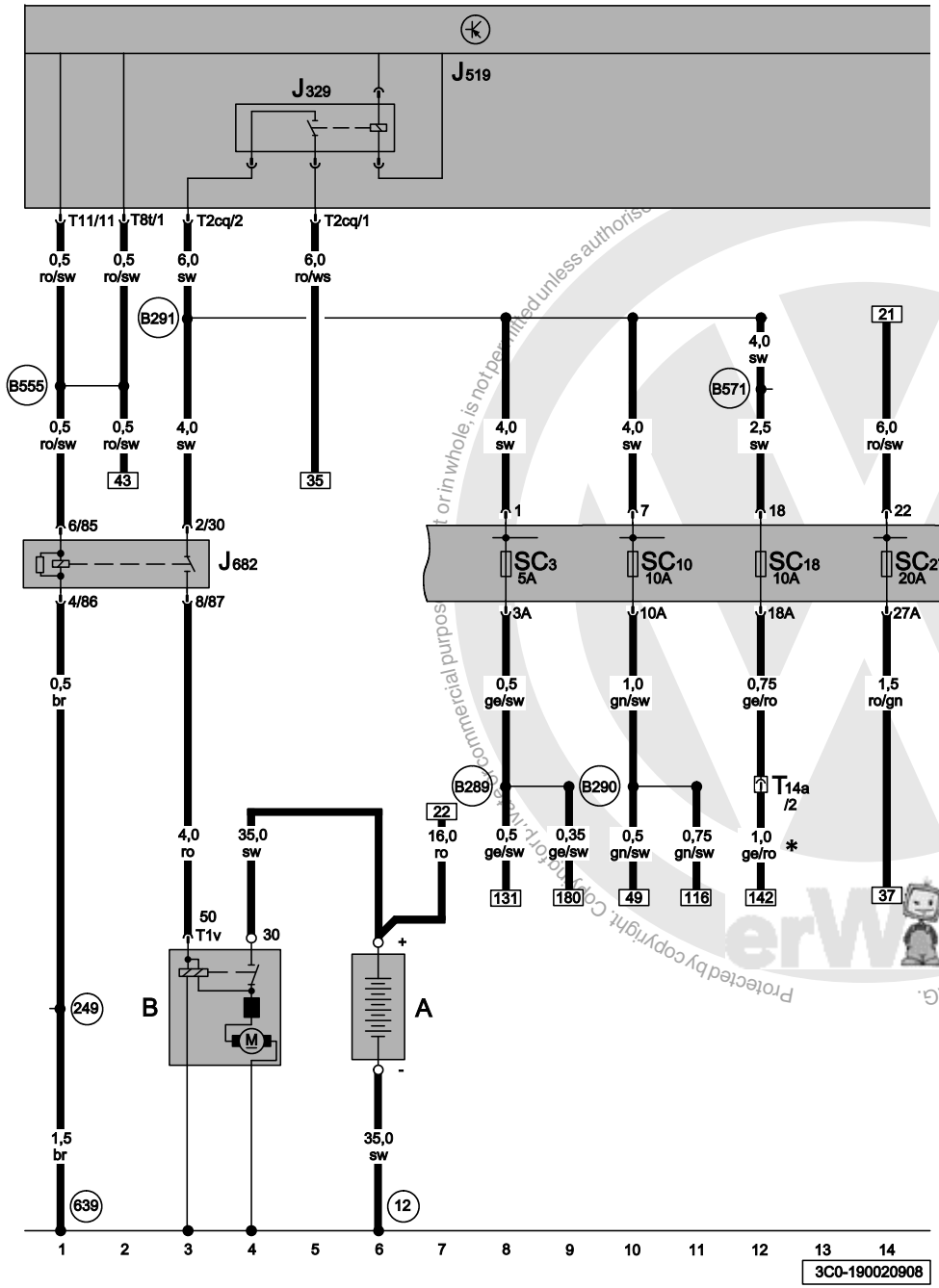
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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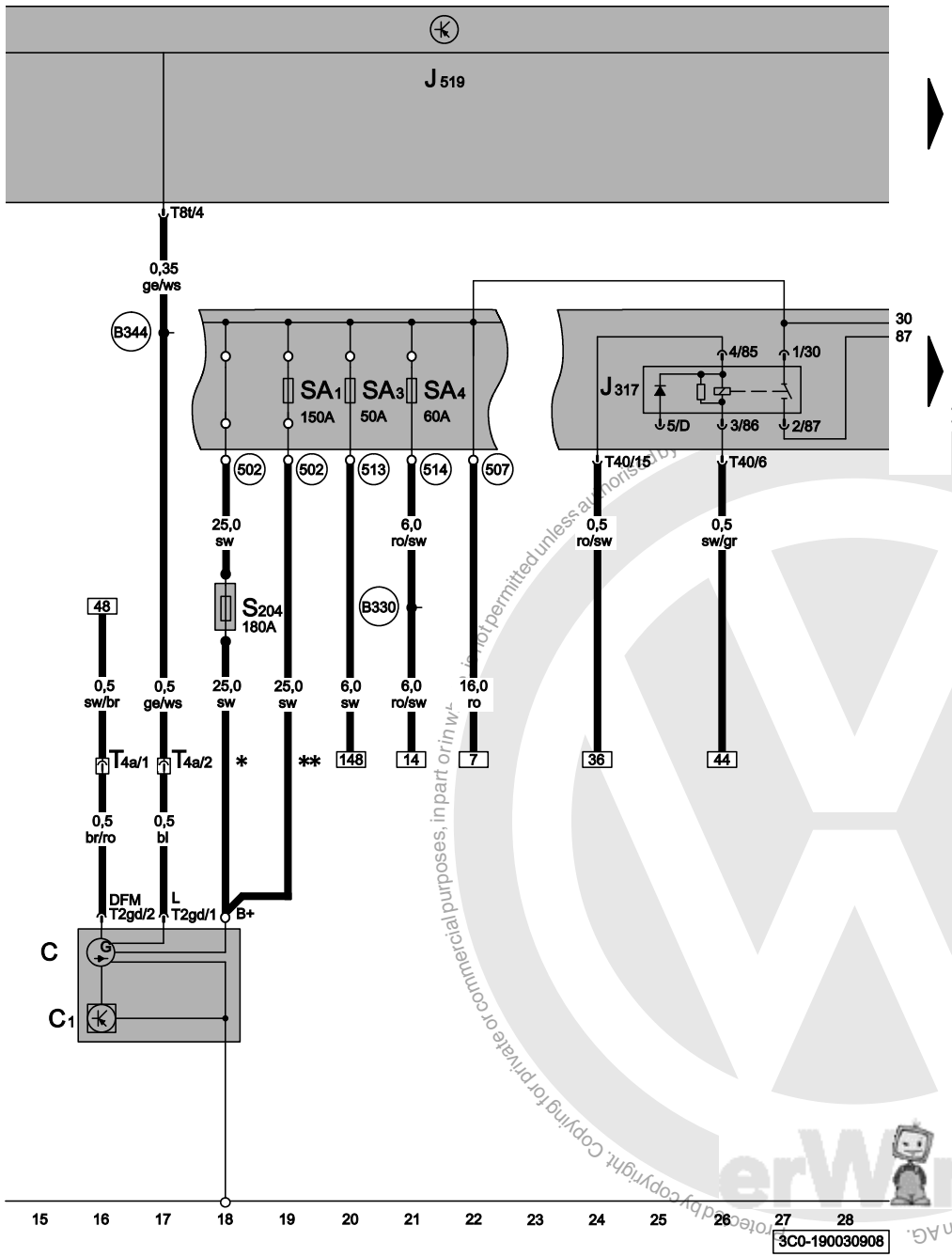
Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses SC

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, on relay carrier on left under dash panel
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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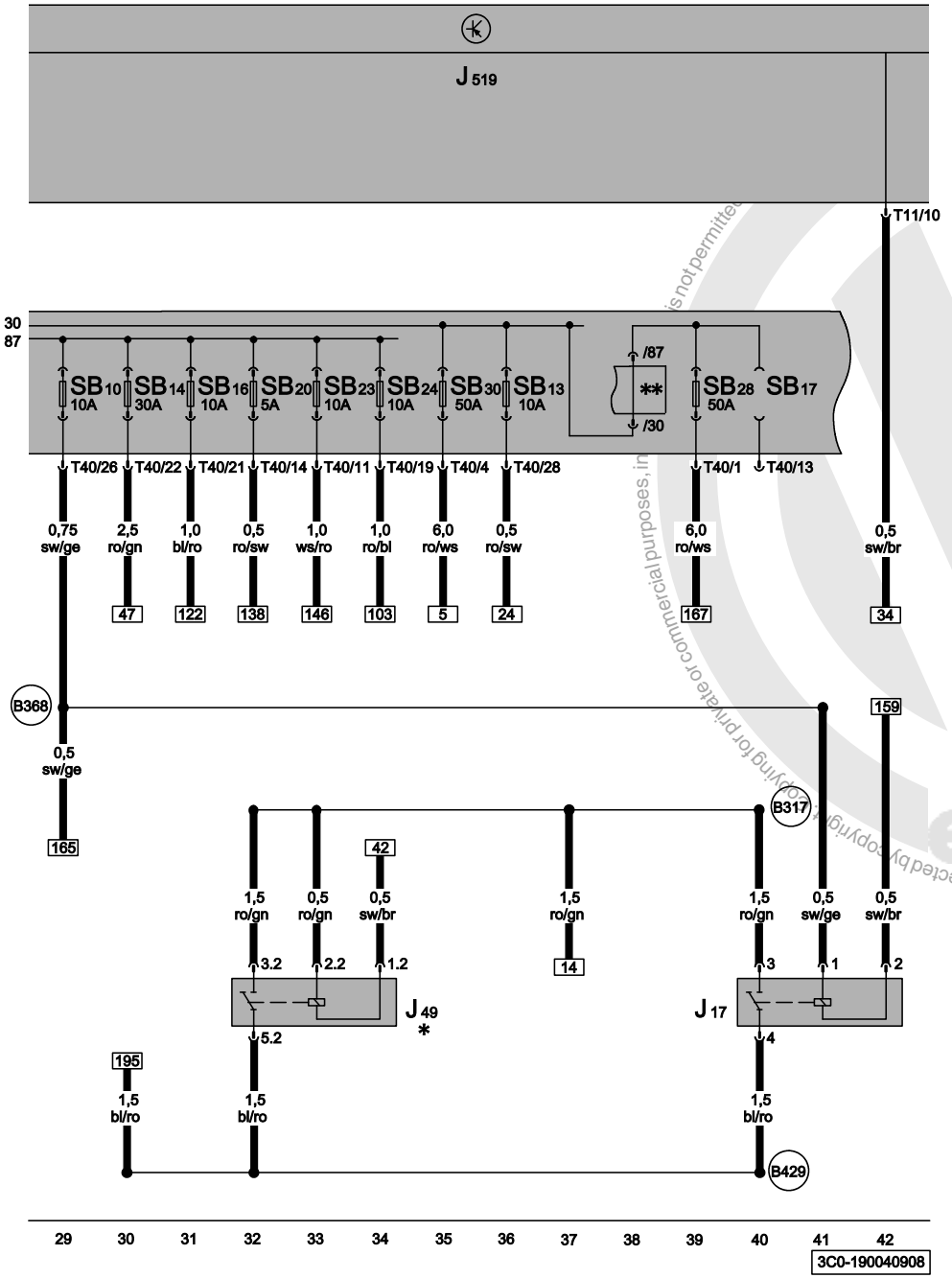
Alternator, terminal 30 voltage supply relay, fuses SA, fuse 1 (30)



C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 180 A alternator
**	Only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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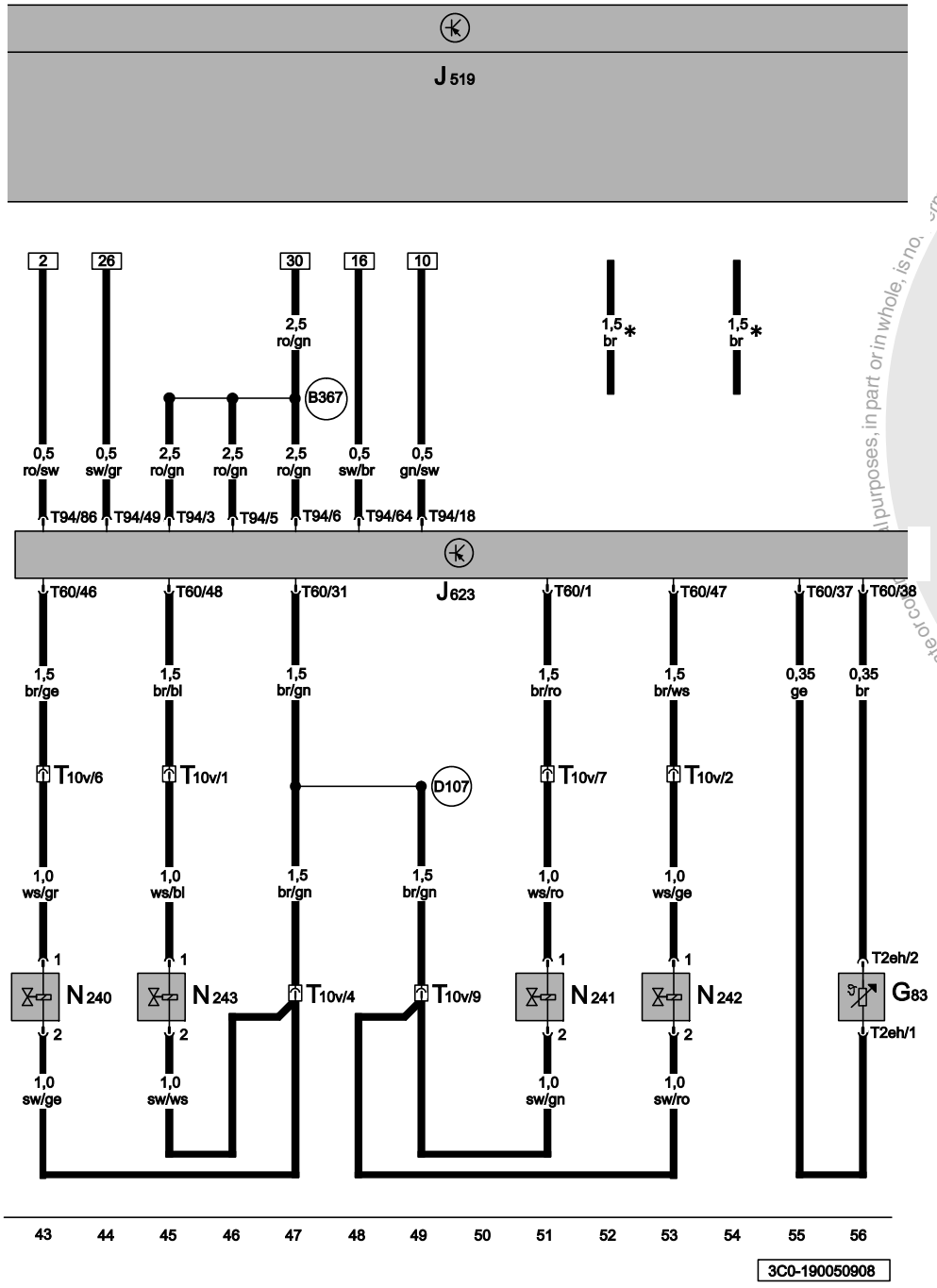


Fuel pump relay, electric fuel pump 2 relay, fuses SB

J17	Fuel pump relay, on relay carrier on left under dash panel (404)
J49	Electric fuel pump 2 relay, on relay carrier on left under dash panel (404)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only with auxiliary coolant heater
**	Push-in bridge on relay slot R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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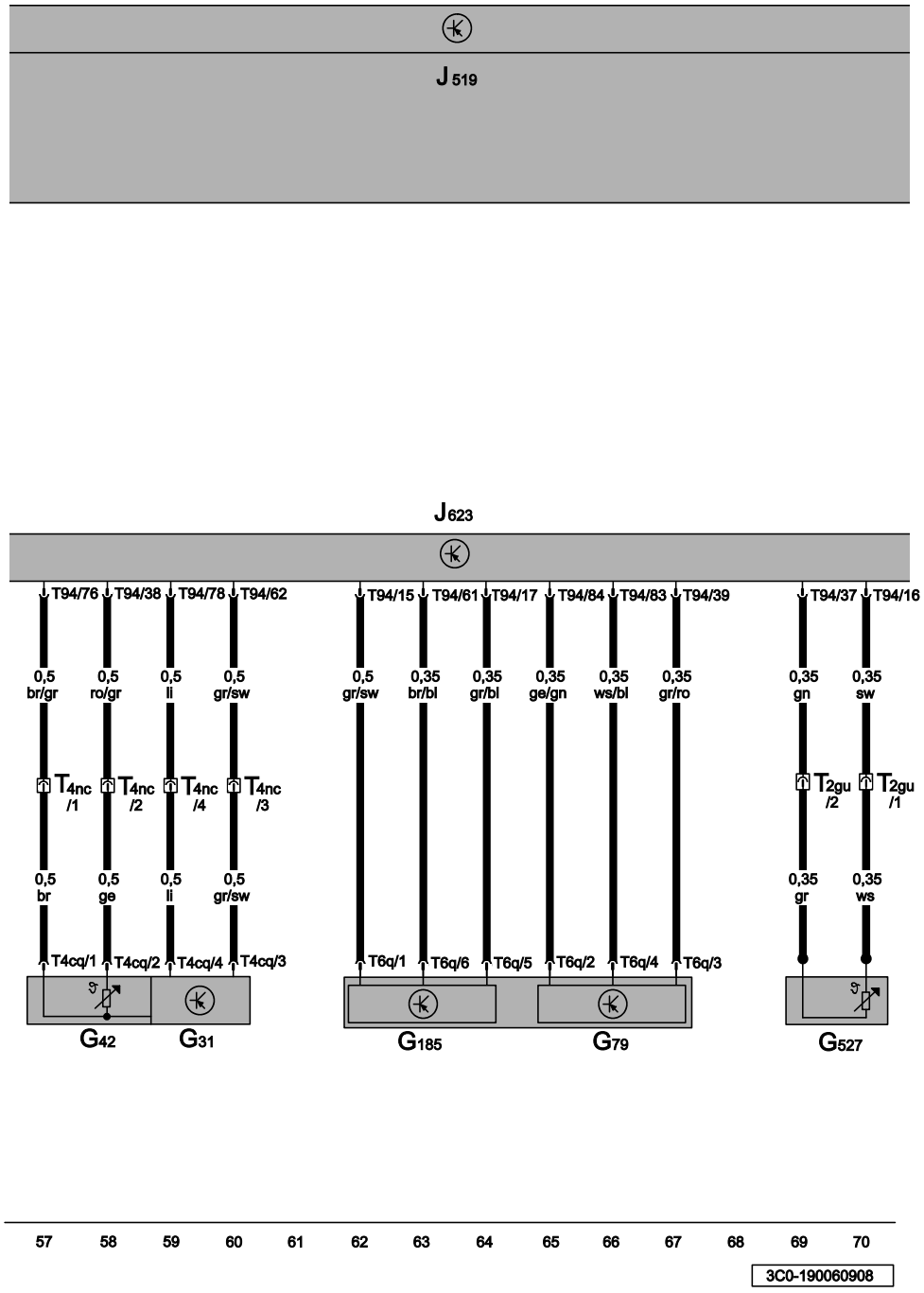


Engine control unit, radiator outlet coolant temperature sender, unit injector valves for cylinders 1-4

G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
T2eh	2-pin connector
T10v	10-pin connector, on left of cylinder head
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D107	Connection 5, in engine compartment wiring harness
*	Unassigned wire

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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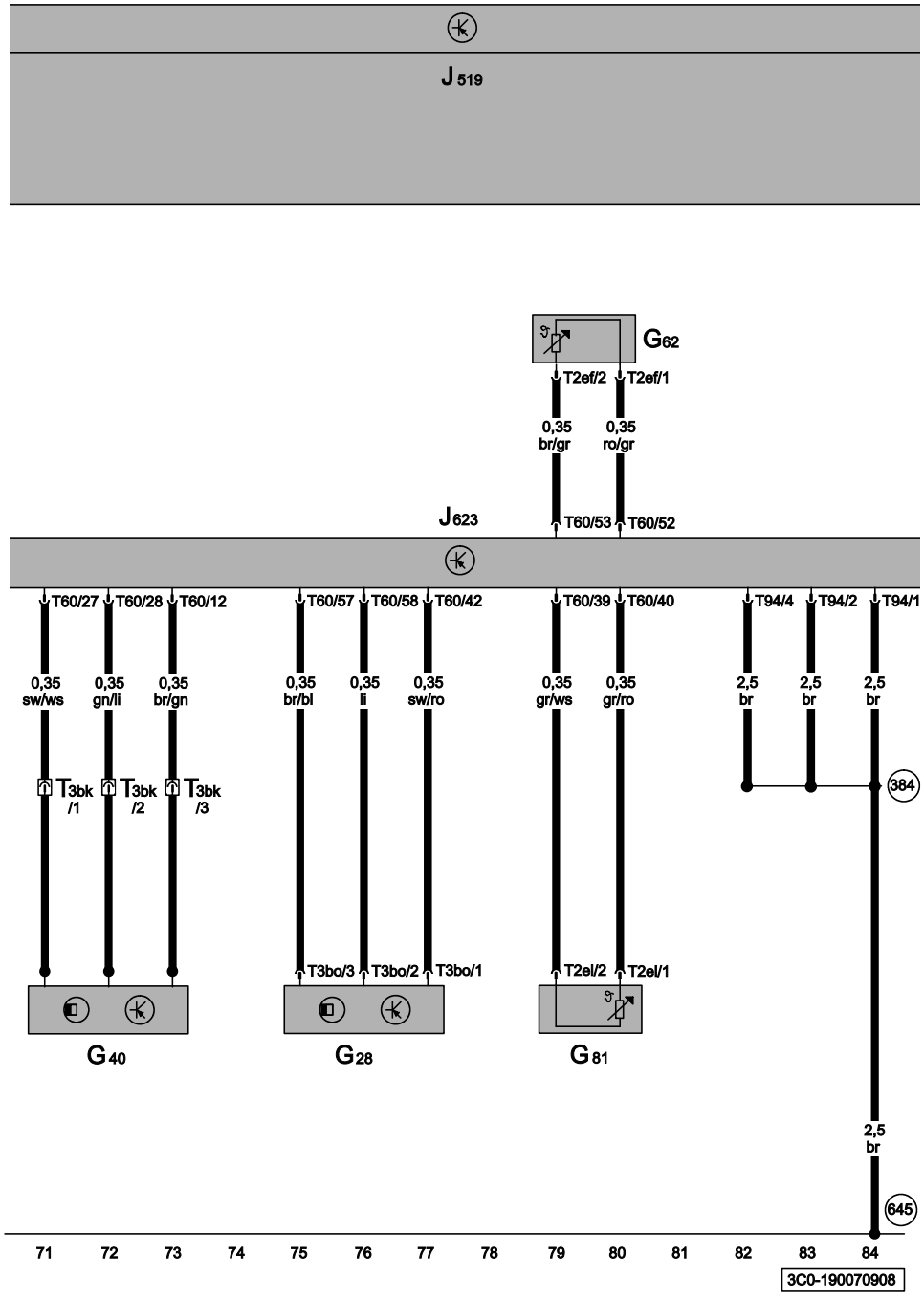


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender, temperature sender after particulate filter

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
G527	Temperature sender after particulate filter
J519	Onboard supply control unit
J623	Engine control unit
T2gu	2-pin connector, brown
T4cq	4-pin connector
T4nc	4-pin connector
T6q	6-pin connector
T94	94-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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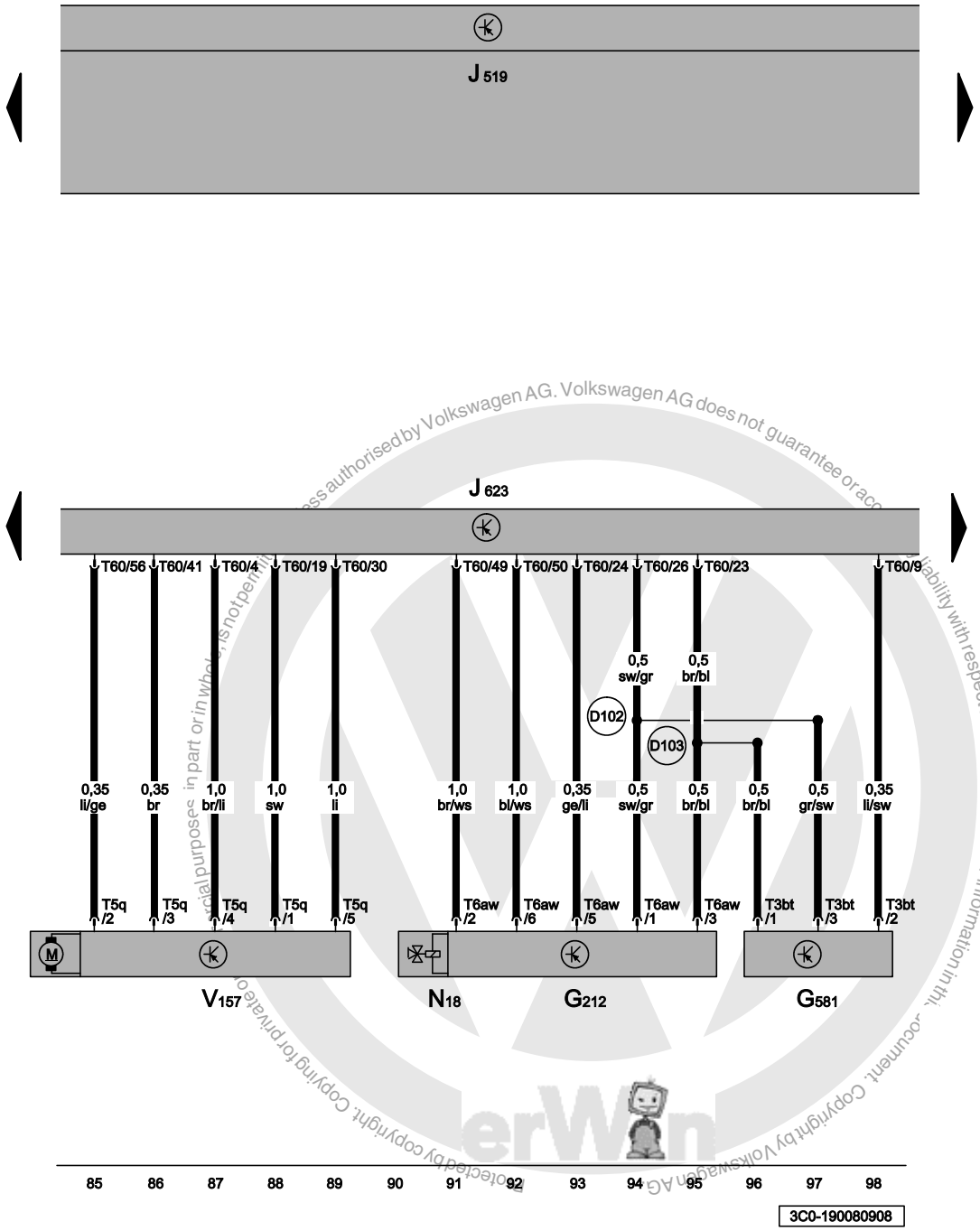


Engine control unit, engine speed sender, Hall sender, fuel temperature sender, coolant temperature sender

G28	Engine speed sender
G40	Hall sender
G62	Coolant temperature sender
G81	Fuel temperature sender
J519	Onboard supply control unit
J623	Engine control unit
T2ef	2-pin connector
T2el	2-pin connector, black
T3bk	3-pin connector, black
T3bo	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
(384)	Earth connection 19, in main wiring harness
(645)	Earth point 1, on bulkhead

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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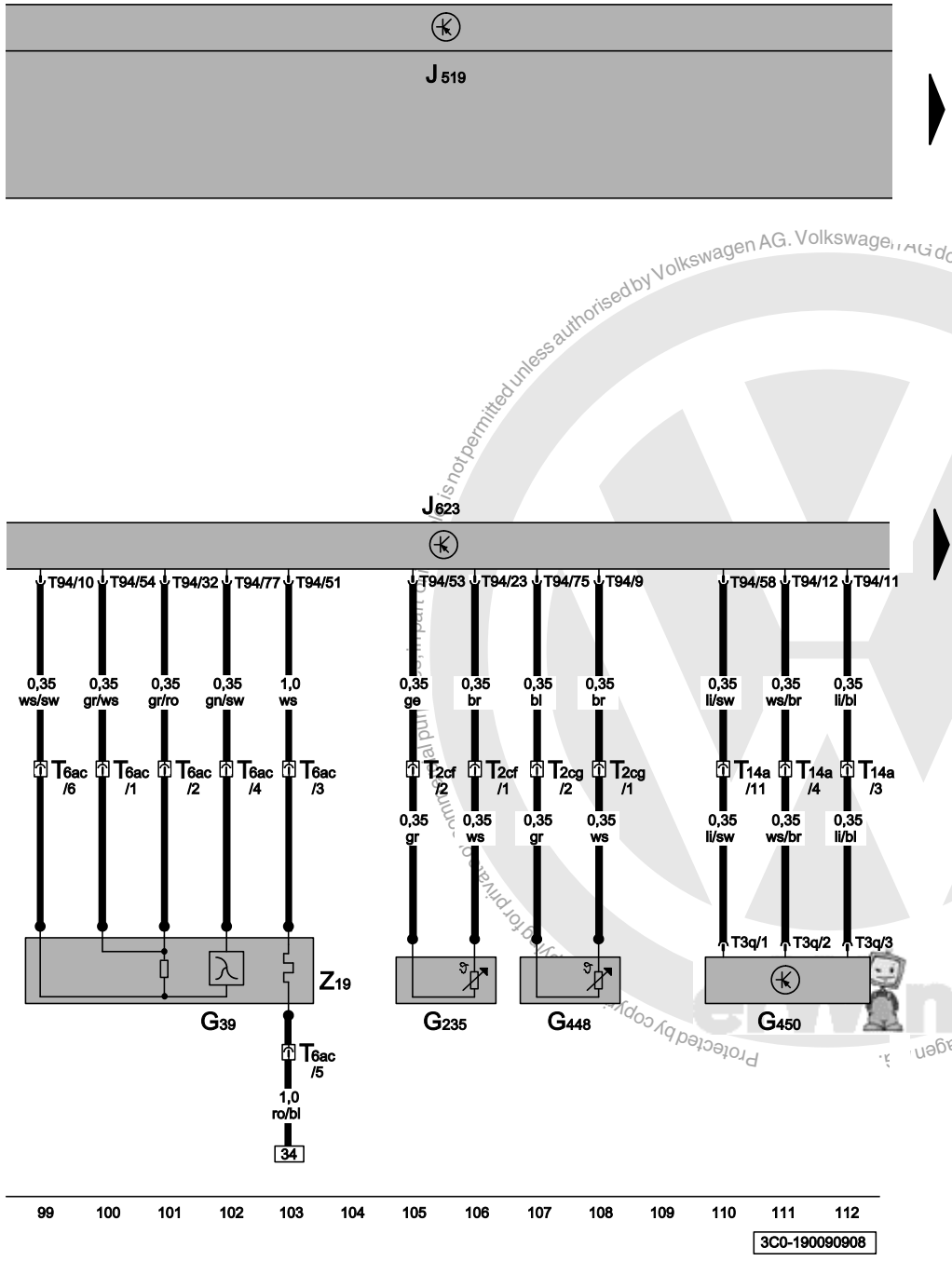


Engine control unit, intake manifold flap motor, exhaust gas recirculation potentiometer, exhaust gas recirculation valve, position sender for charge pressure positioner

G212	Exhaust gas recirculation potentiometer
G581	Position sender for charge pressure positioner
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
T3bt	3-pin connector
T5q	5-pin connector
T6aw	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor
D102	Connection 2, in engine compartment wiring harness
D103	Connection 3, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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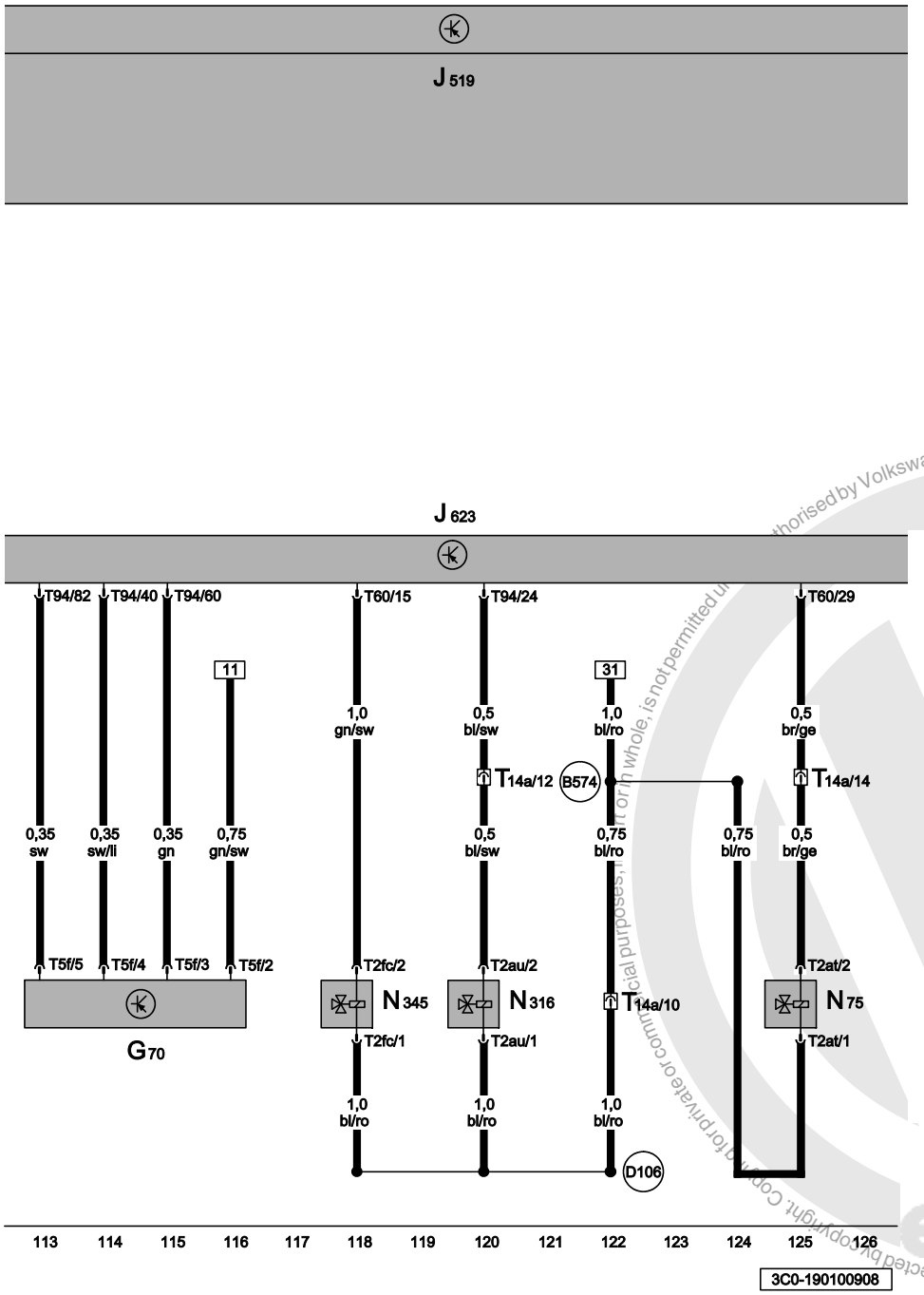


Engine control unit, Lambda probe, exhaust gas pressure sensor 1, exhaust gas temperature sender 1, exhaust gas temperature sender 2, Lambda probe heater

G39	Lambda probe
G235	Exhaust temperature sender 1
G448	Exhaust temperature sender 2
G450	Exhaust gas pressure sensor 1
J519	Onboard supply control unit
J623	Engine control unit
T2cf	2-pin connector
T2cg	2-pin connector
T3q	3-pin connector
T6ac	6-pin connector, black, coupling point for Lambda probe
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T94	94-pin connector
Z19	Lambda probe heater

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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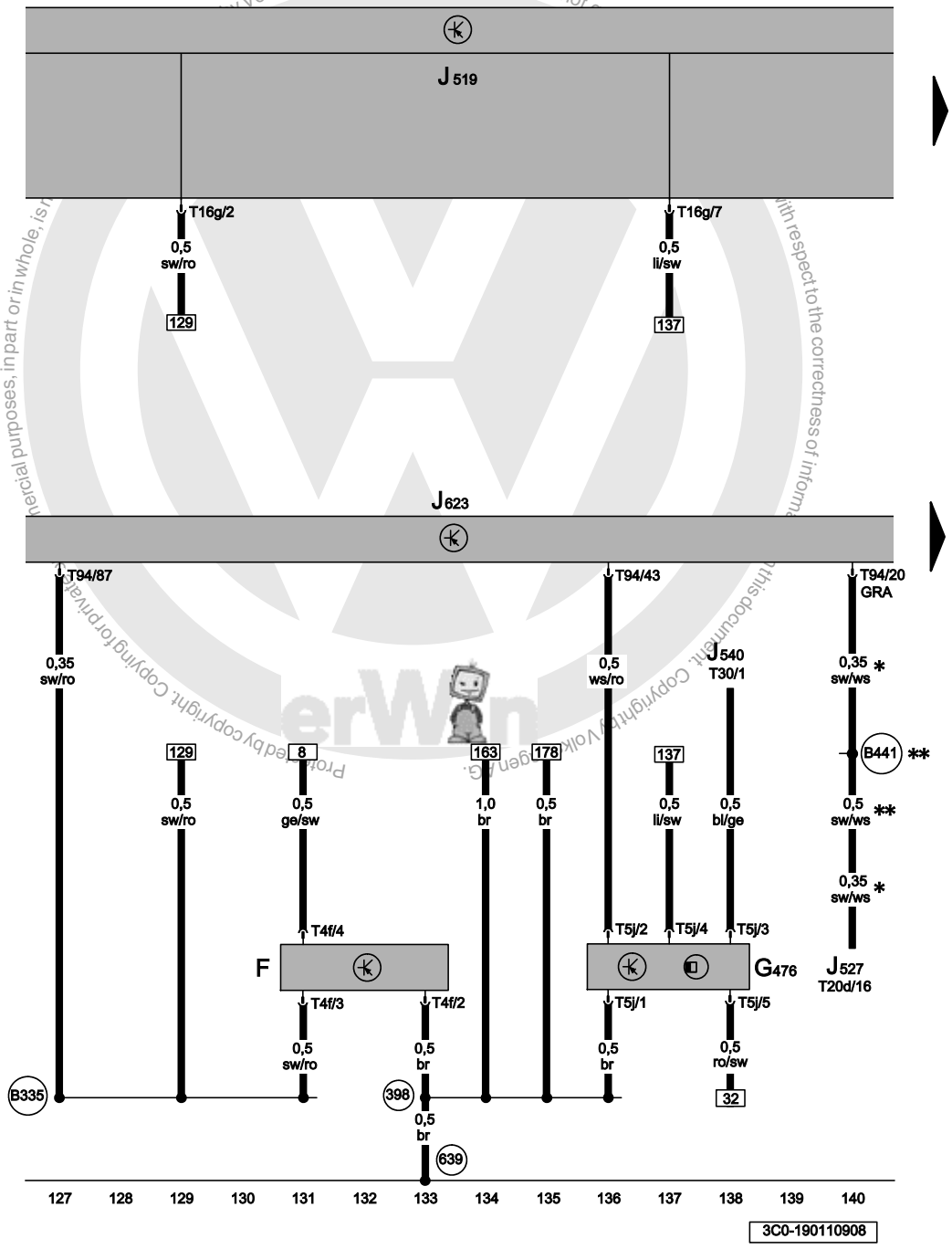


Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler changeover valve, intake manifold flap valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N316	Intake manifold flap valve
N345	Exhaust gas recirculation cooler changeover valve
T2au	2-pin connector
T2at	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness
D106	Connection 4, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

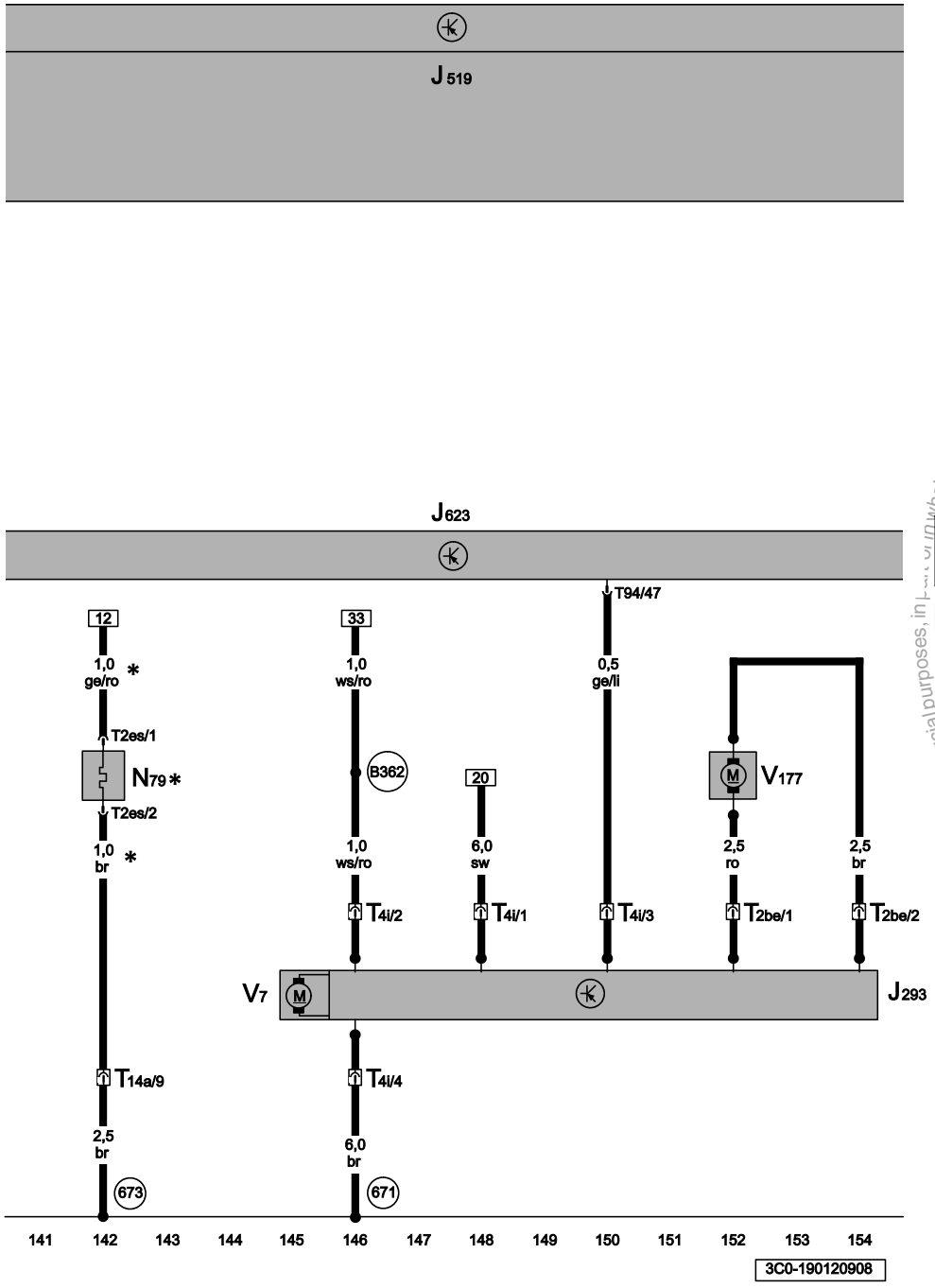
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Engine control unit, clutch position sender, brake light switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

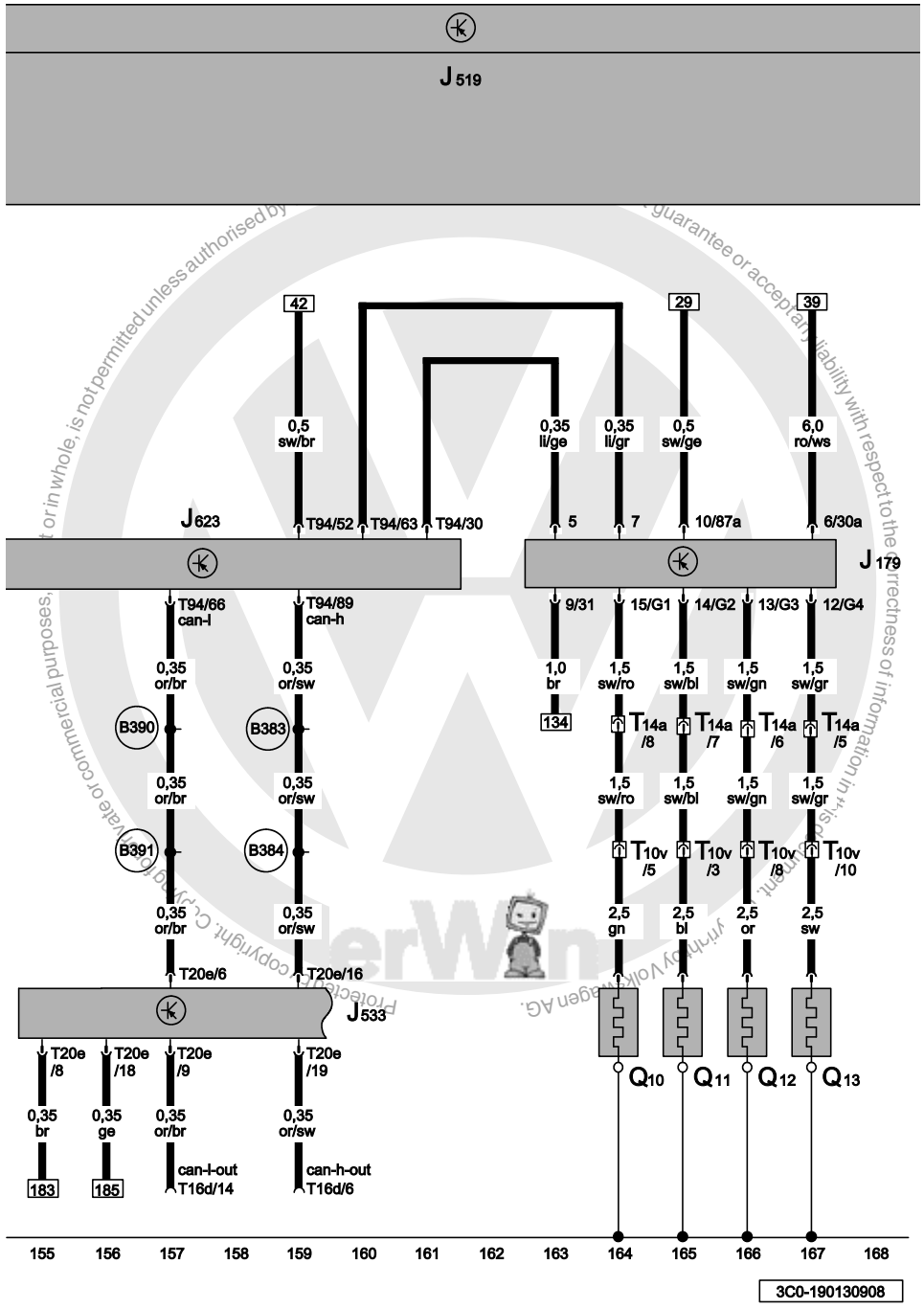


Engine control unit, crankcase breather heater element, radiator fan, radiator fan control unit

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
T2be	2-pin connector, on lock carrier
T2es	2-pin connector
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B362	Connection 13 (87a), in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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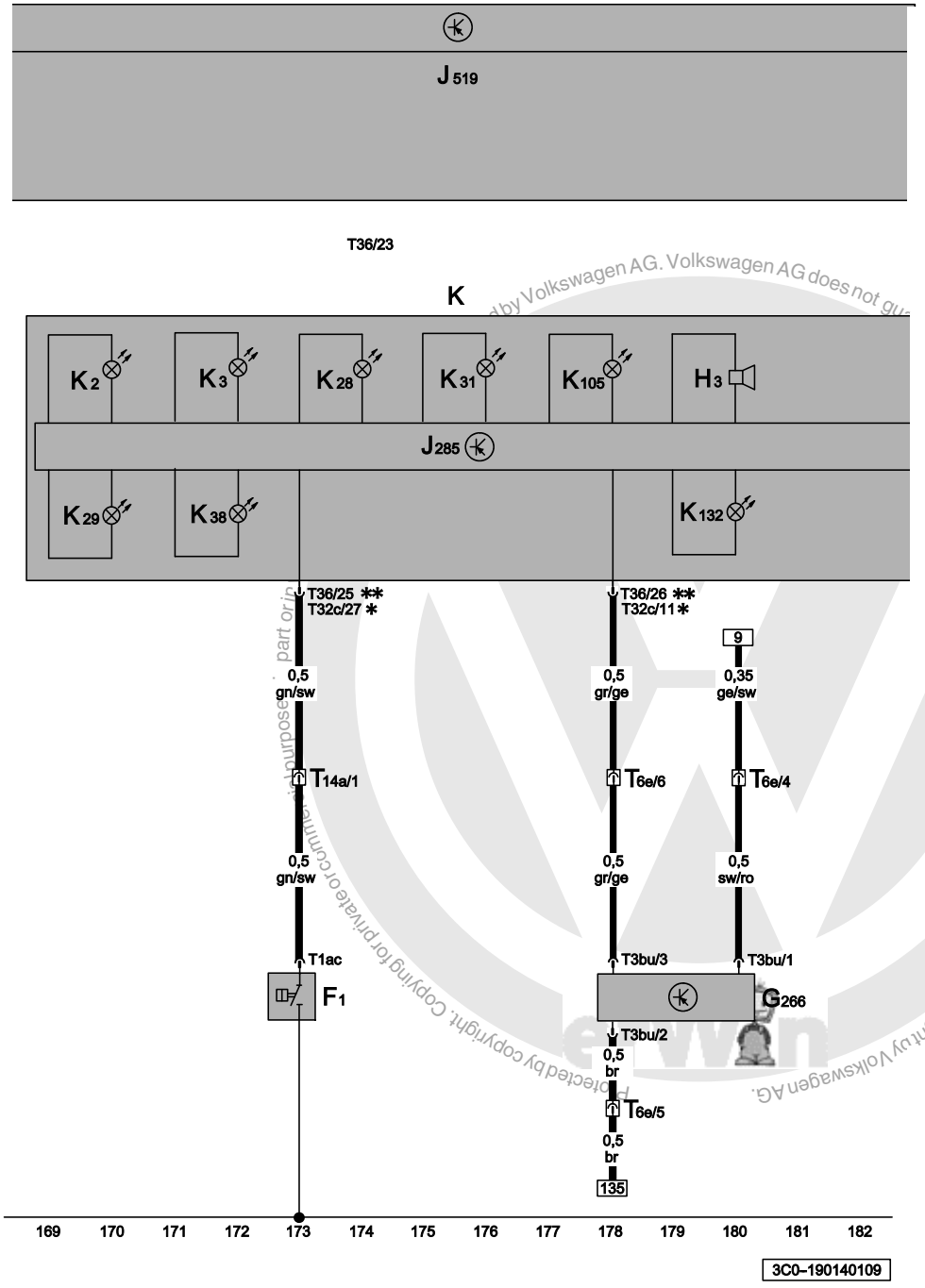


Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T10v	10-pin connector, on left on cylinder head
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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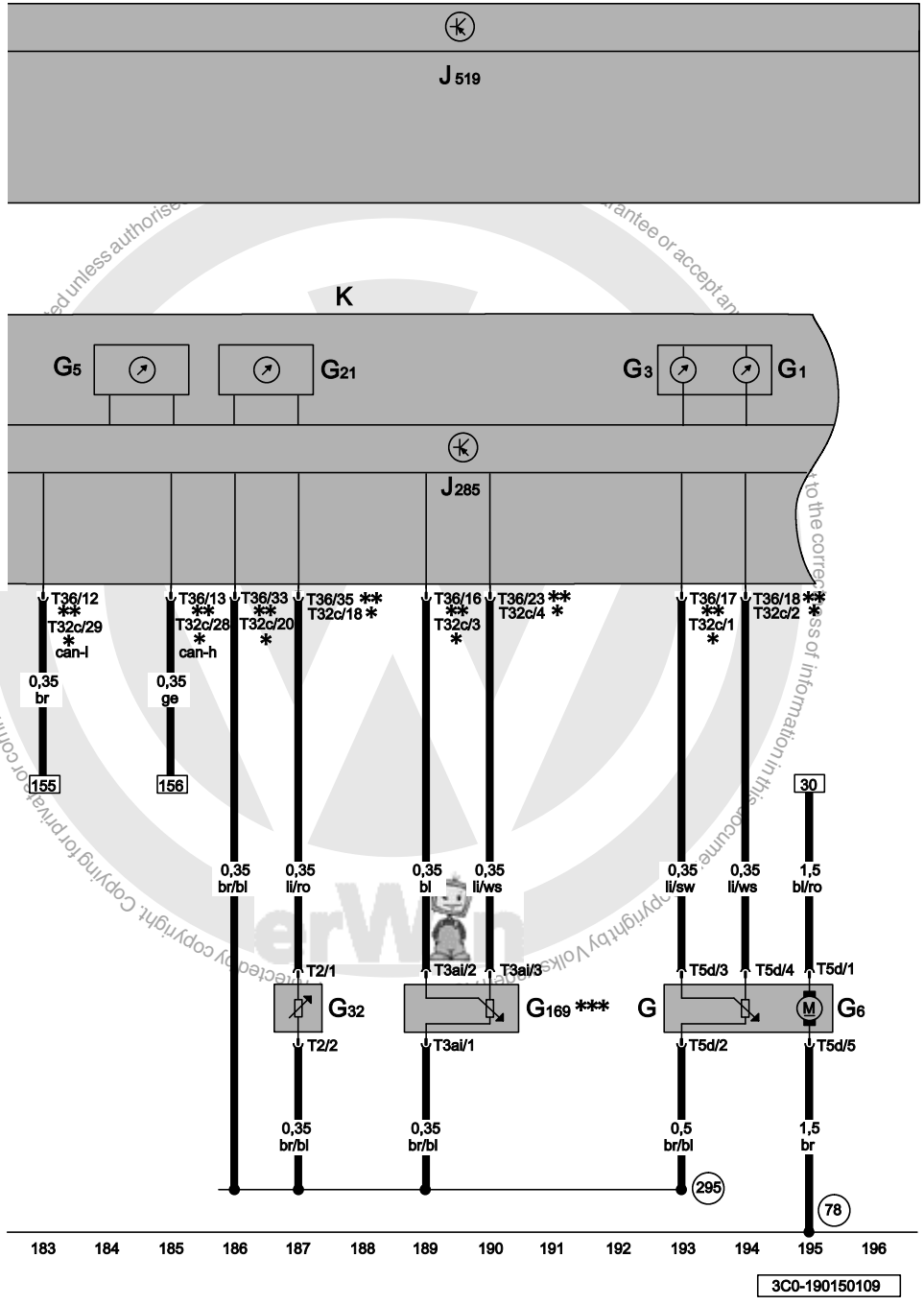


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
*	Applicable from November 2008
**	Applicable up to October 2008

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Dash panel insert, rev counter, speedometer, coolant temperature gauge, fuel system pressurisation pump, fuel gauge

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T32c	32-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008
***	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

2.0 l/103 kW - turbo diesel, engine code BKP

From May 2008

2.0 l/100 kW - turbo diesel, engine code BMA

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

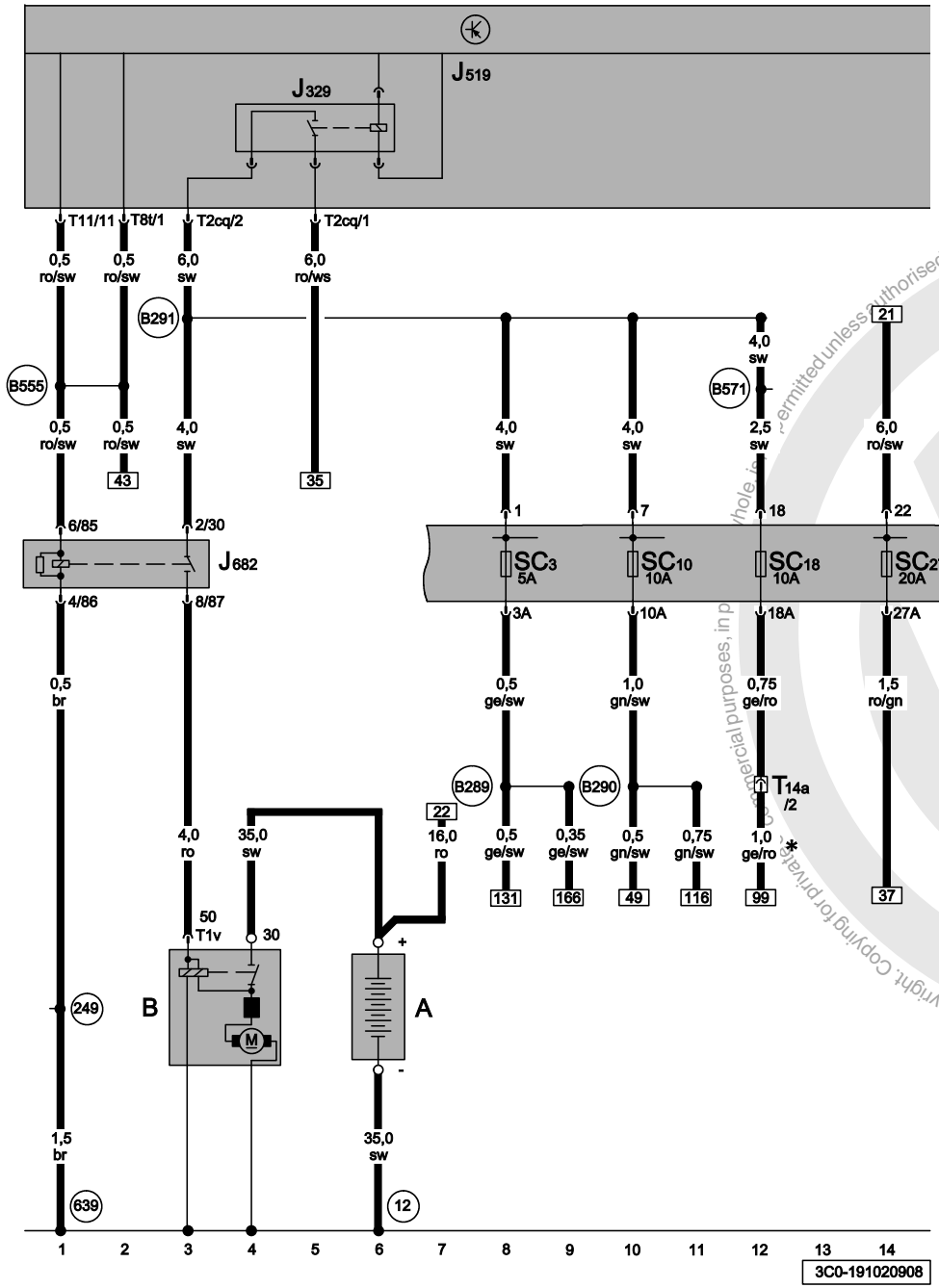
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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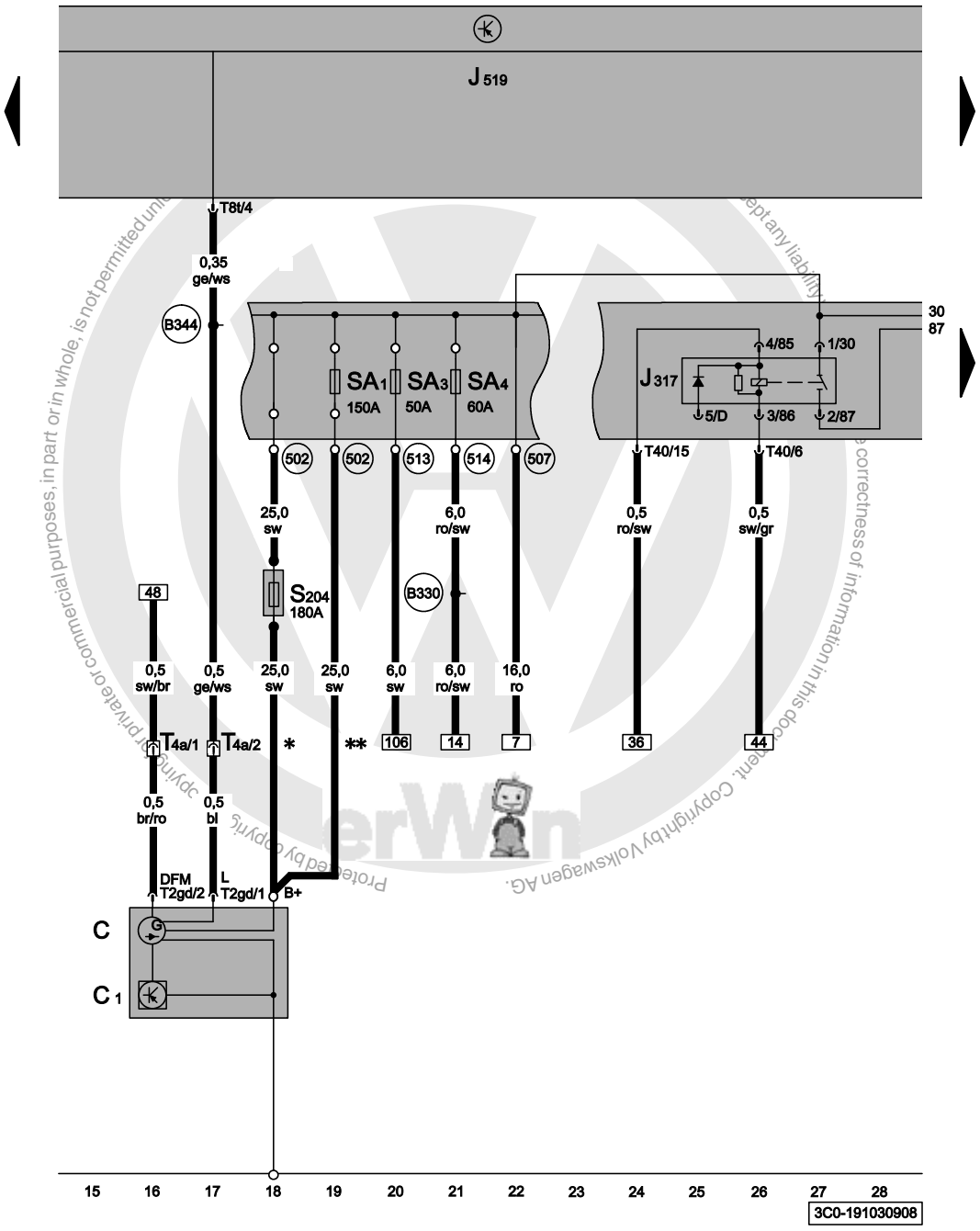
Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses SC

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, on relay carrier on left under dash panel
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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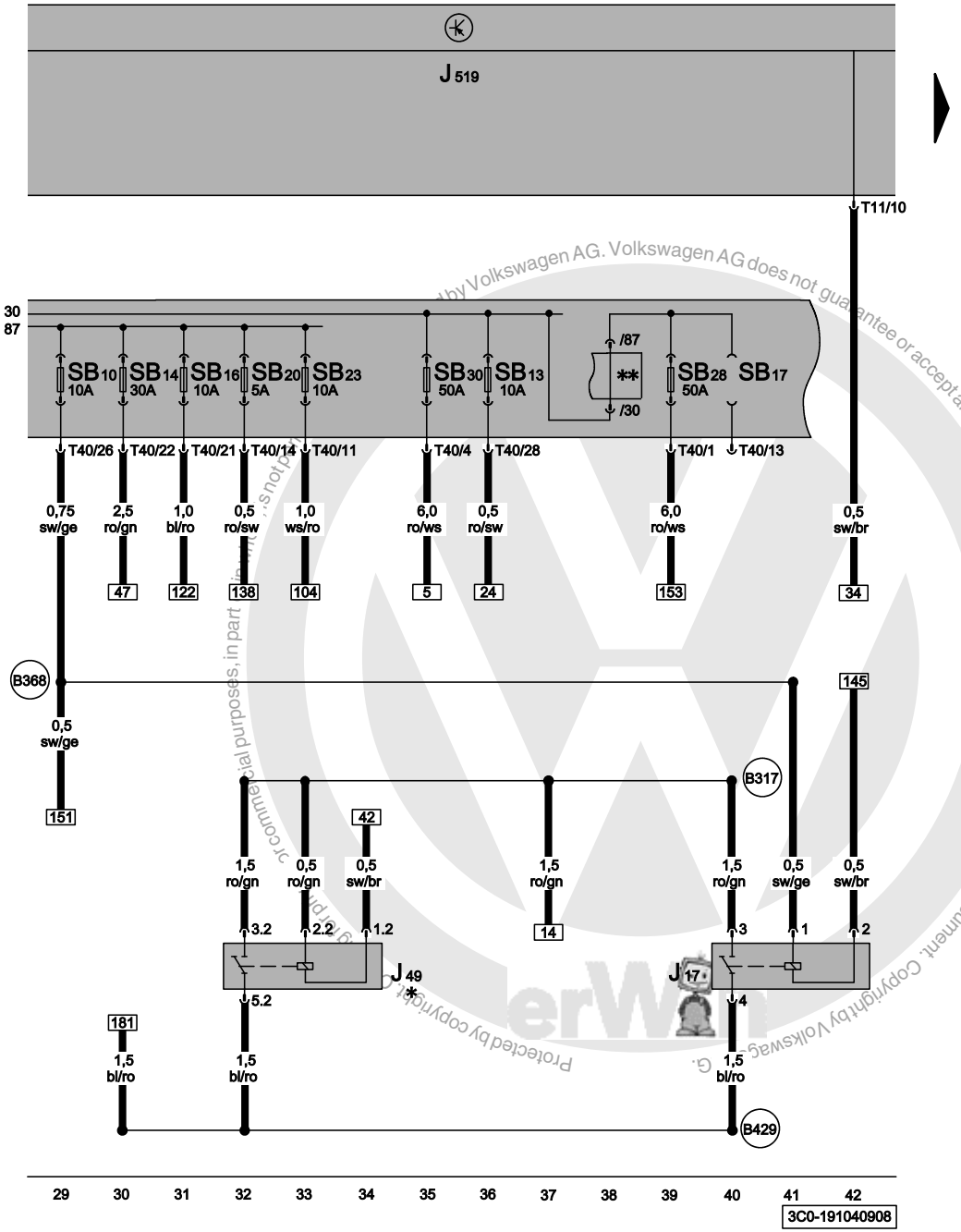
Alternator, terminal 30 voltage supply relay, fuses SA, fuse 1 (30)



C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box, on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 180 A alternator
**	Only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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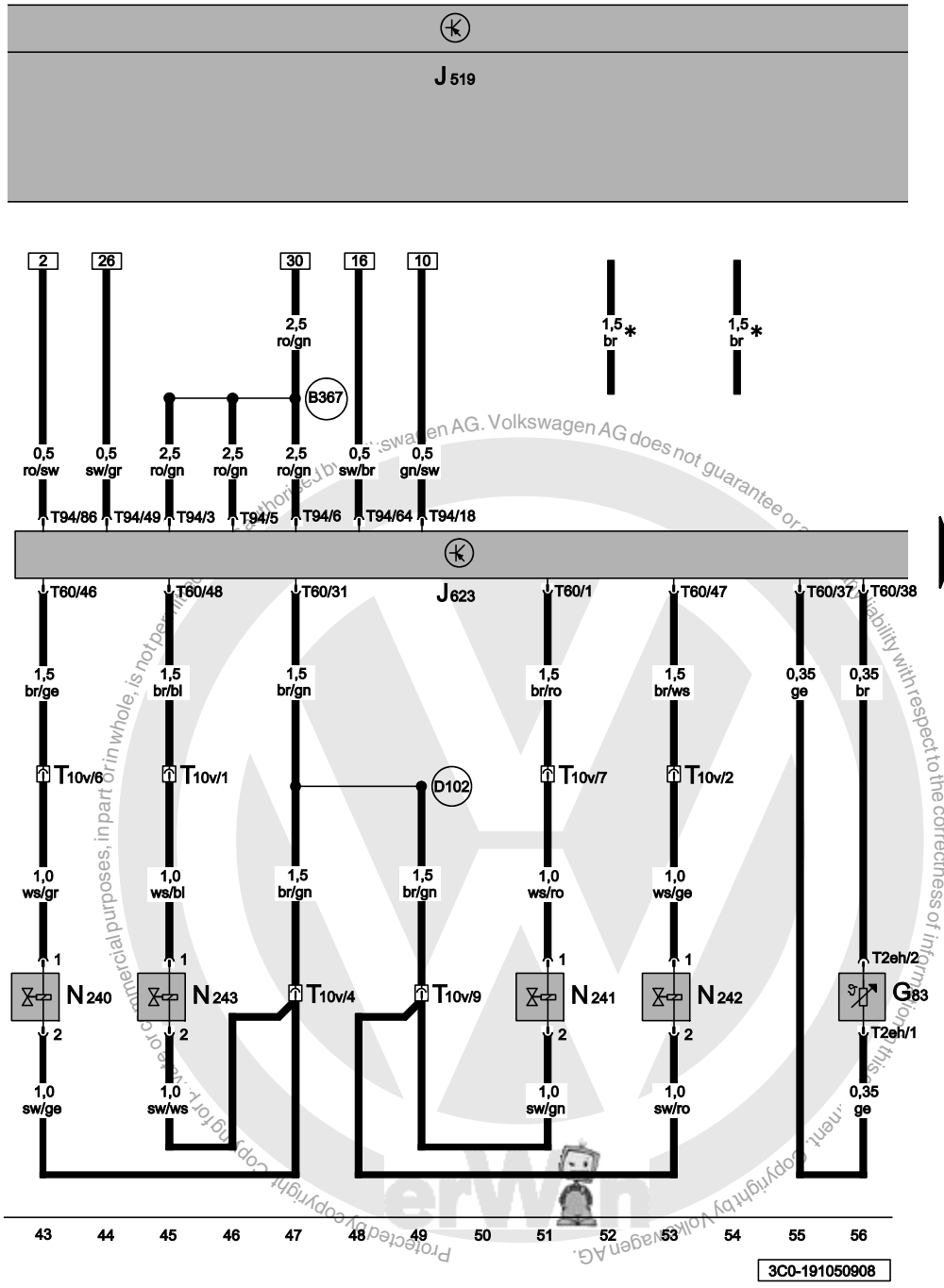


Fuel pump relay, electric fuel pump 2 relay, fuses SB

J17	Fuel pump relay, on relay carrier on left under dash panel (404)
J49	Electric fuel pump 2 relay, on relay carrier on left under dash panel (404)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
B317	Connection 3 (30a), in main wiring harness
B368	Connection 19 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only with auxiliary coolant heater
**	Push-in bridge on relay slot R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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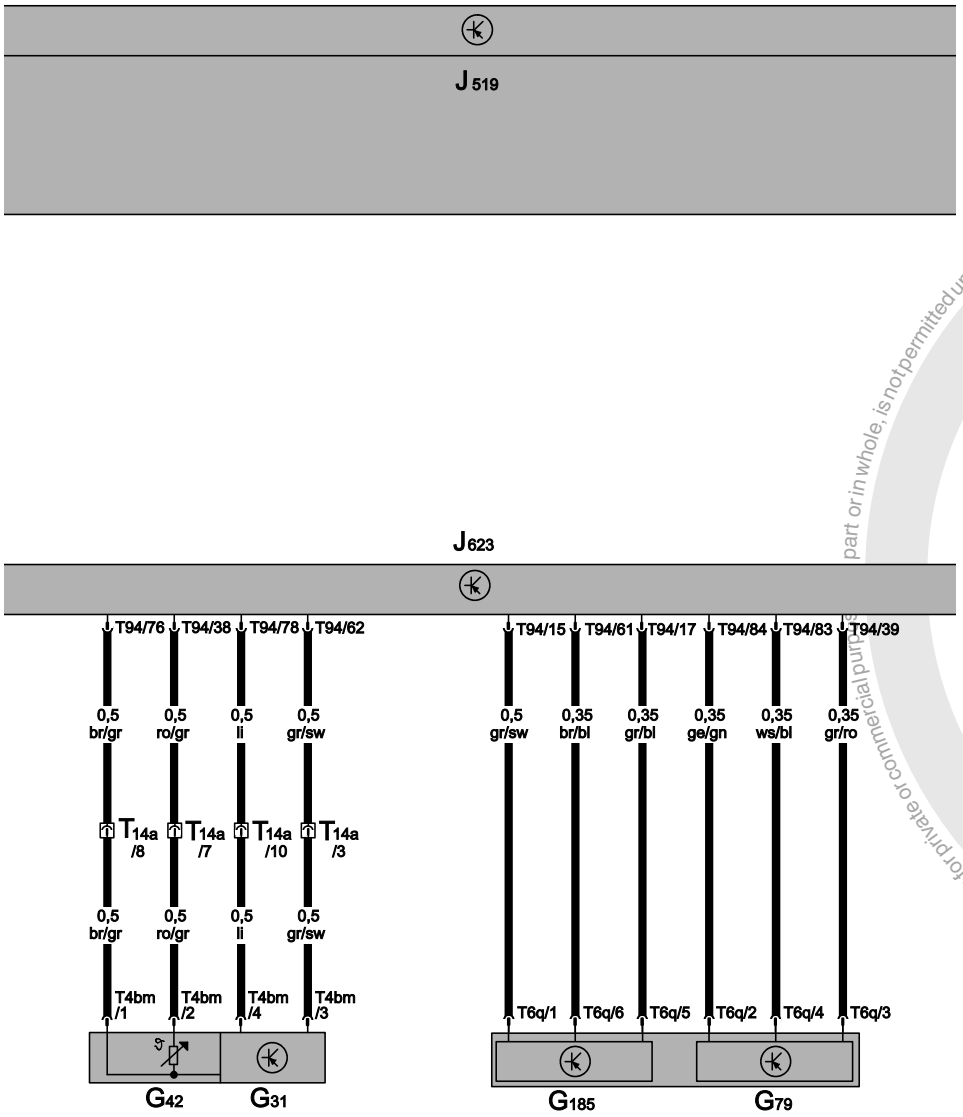


Engine control unit, radiator outlet coolant temperature sender, unit injector valves for cylinders 1-4

G83	Radiator outlet coolant temperature sender
J519	Onboard supply control unit
J623	Engine control unit
N240	Unit injector valve, No. 1 cyl.
N241	Unit injector valve, No. 2 cyl.
N242	Unit injector valve, No. 3 cyl.
N243	Unit injector valve, No. 4 cyl.
T2eh	2-pin connector
T10v	10-pin connector, on left of cylinder head
T60	60-pin connector
T94	94-pin connector
B367	Connection 18 (87a), in main wiring harness
D102	Connection 2, in engine compartment wiring harness
*	Unassigned wire

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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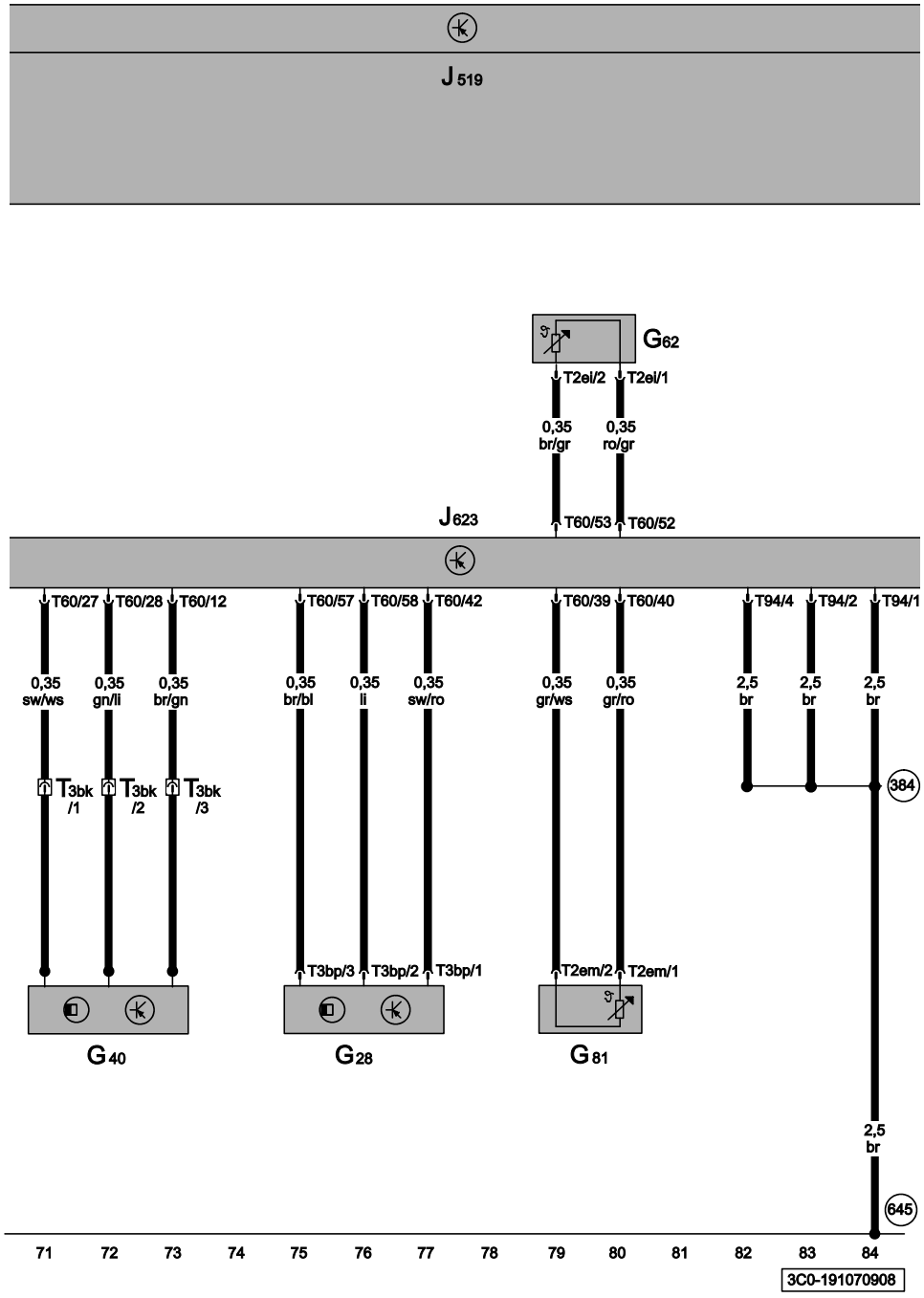


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J519	Onboard supply control unit
J623	Engine control unit
T4bm	4-pin connector
T6q	6-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T94	94-pin connector

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ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Engine control unit, engine speed sender, Hall sender, fuel temperature sender, coolant temperature sender

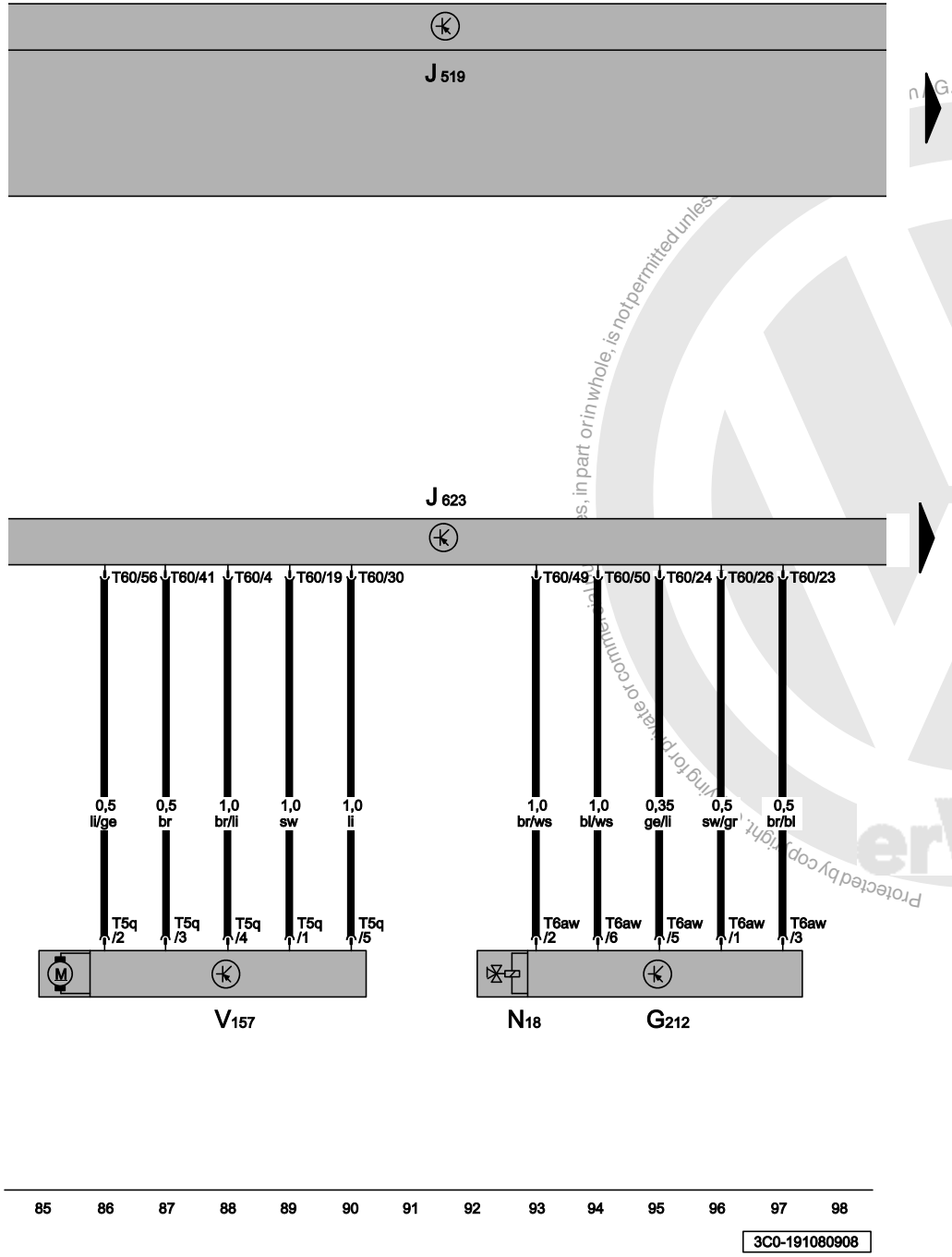
G28	Engine speed sender
G40	Hall sender
G62	Coolant temperature sender
G81	Fuel temperature sender
J519	Onboard supply control unit
J623	Engine control unit
T2ei	2-pin connector
T2em	2-pin connector, black
T3bk	3-pin connector, black
T3bp	3-pin connector, black
T60	60-pin connector
T94	94-pin connector
384	Earth connection 19, in main wiring harness
645	Earth point 1, on bulkhead

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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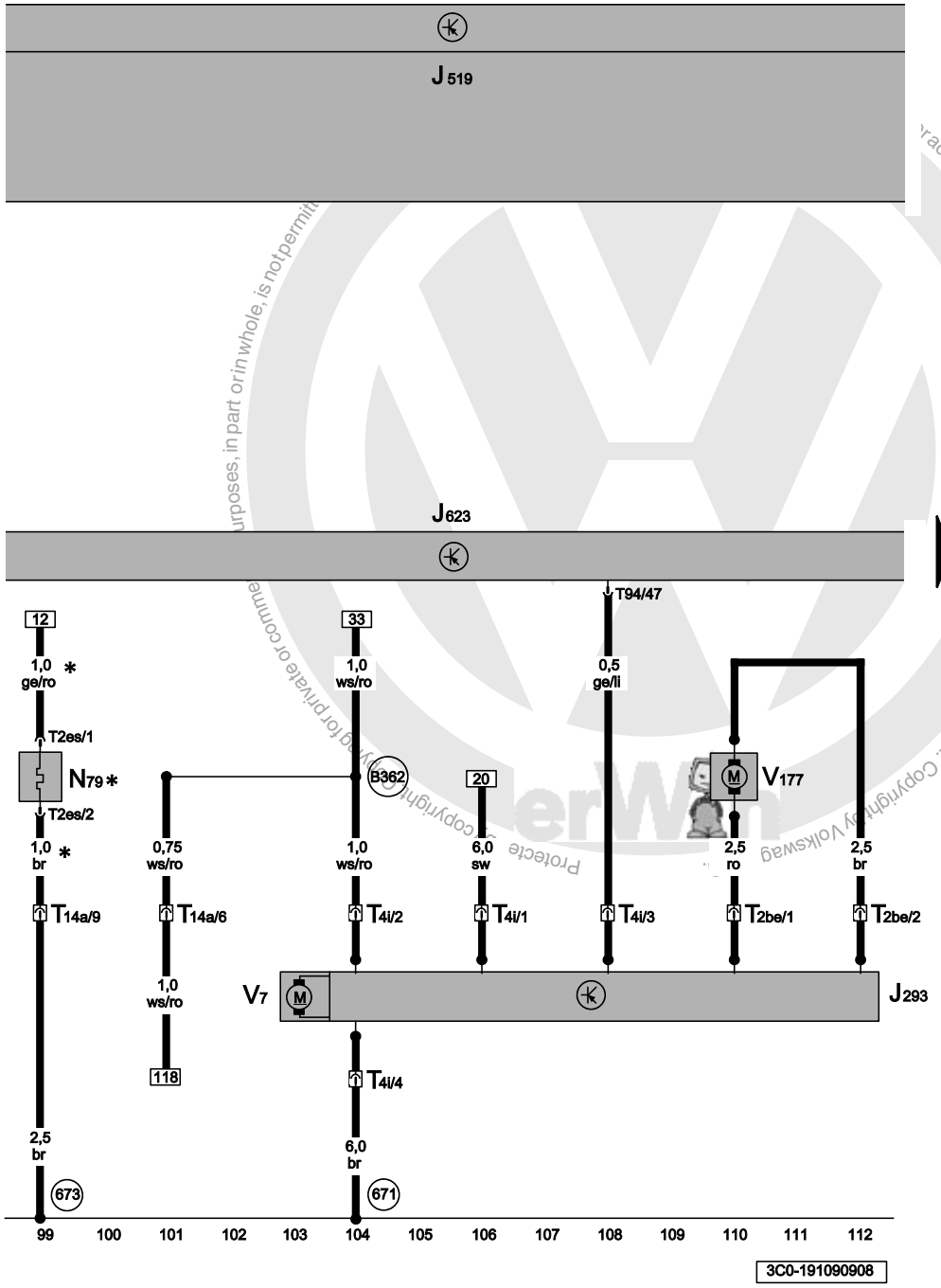
Engine control unit, intake manifold flap motor, exhaust gas recirculation potentiometer, exhaust gas recirculation valve

G212	Exhaust gas recirculation potentiometer
J519	Onboard supply control unit
J623	Engine control unit
N18	Exhaust gas recirculation valve
T5q	5-pin connector
T6aw	6-pin connector
T60	60-pin connector
V157	Intake manifold flap motor



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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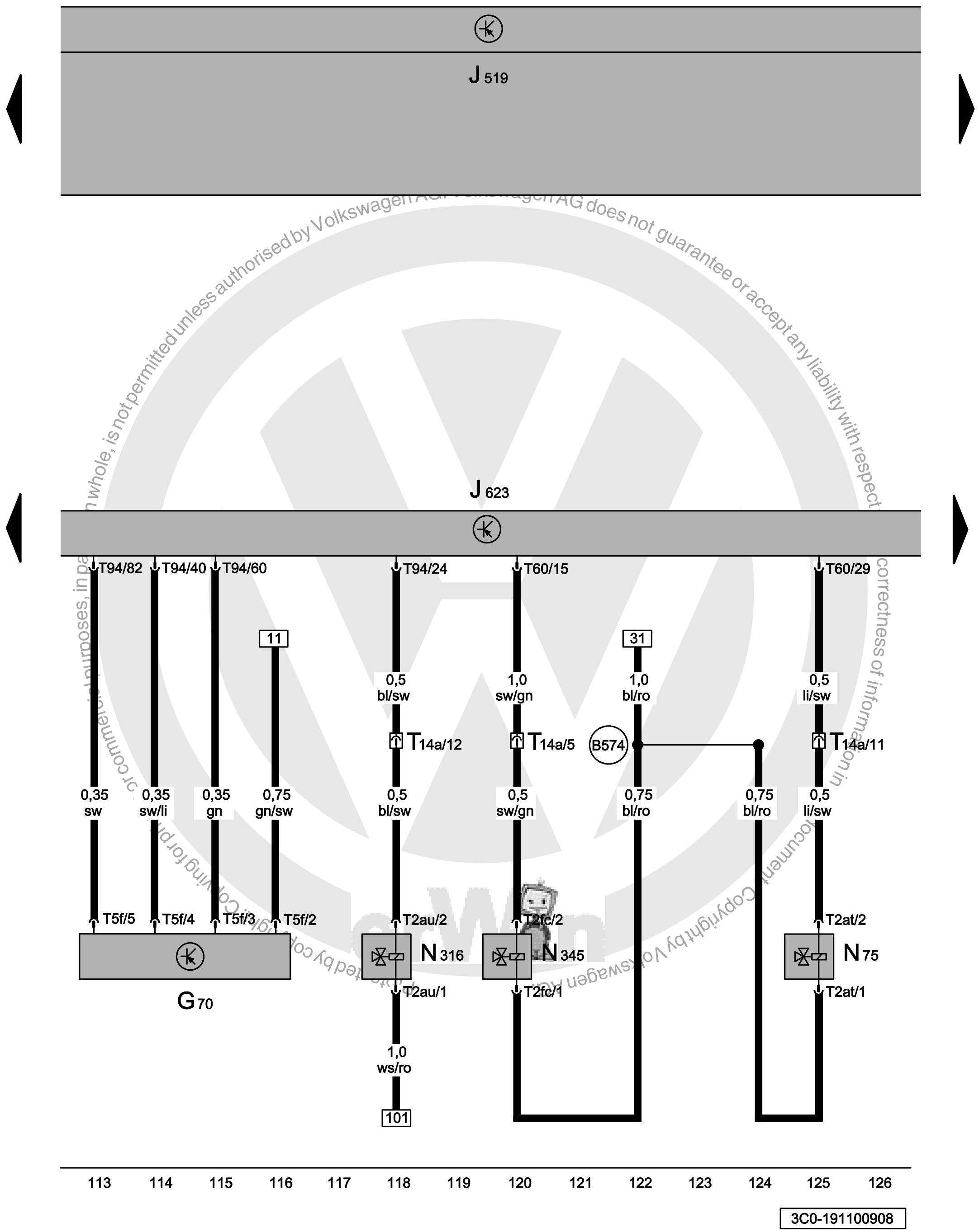


Engine control unit, crankcase breather heater element, radiator fan, radiator fan control unit

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
T2es	2-pin connector
T2be	2-pin connector, on lock carrier
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
B362	Connection 13 (87a), in main wiring harness
*	Only models for cold countries

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler changeover valve, intake manifold flap valve

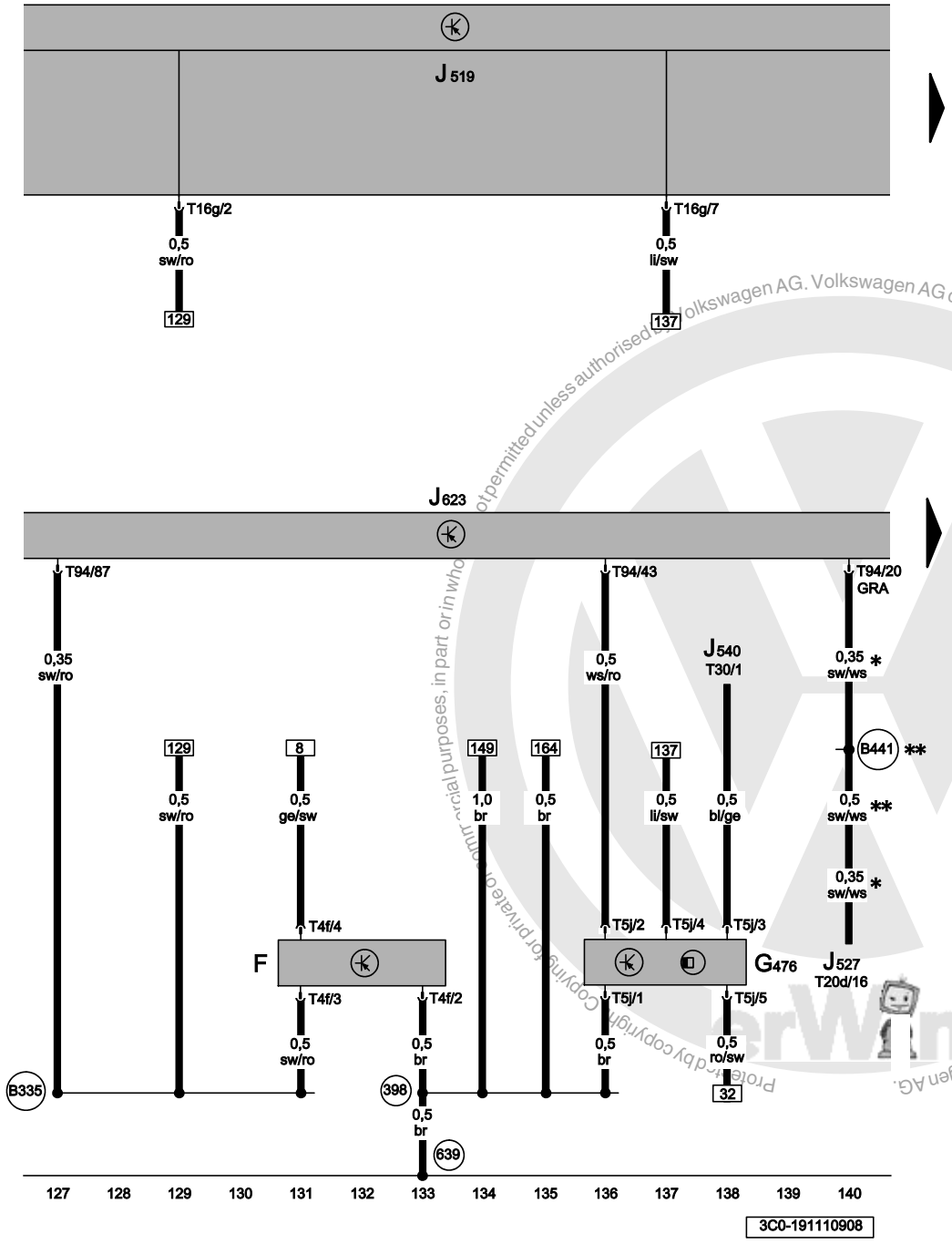
G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N316	Intake manifold flap valve
N345	Exhaust gas recirculation cooler changeover valve
T2at	2-pin connector
T2au	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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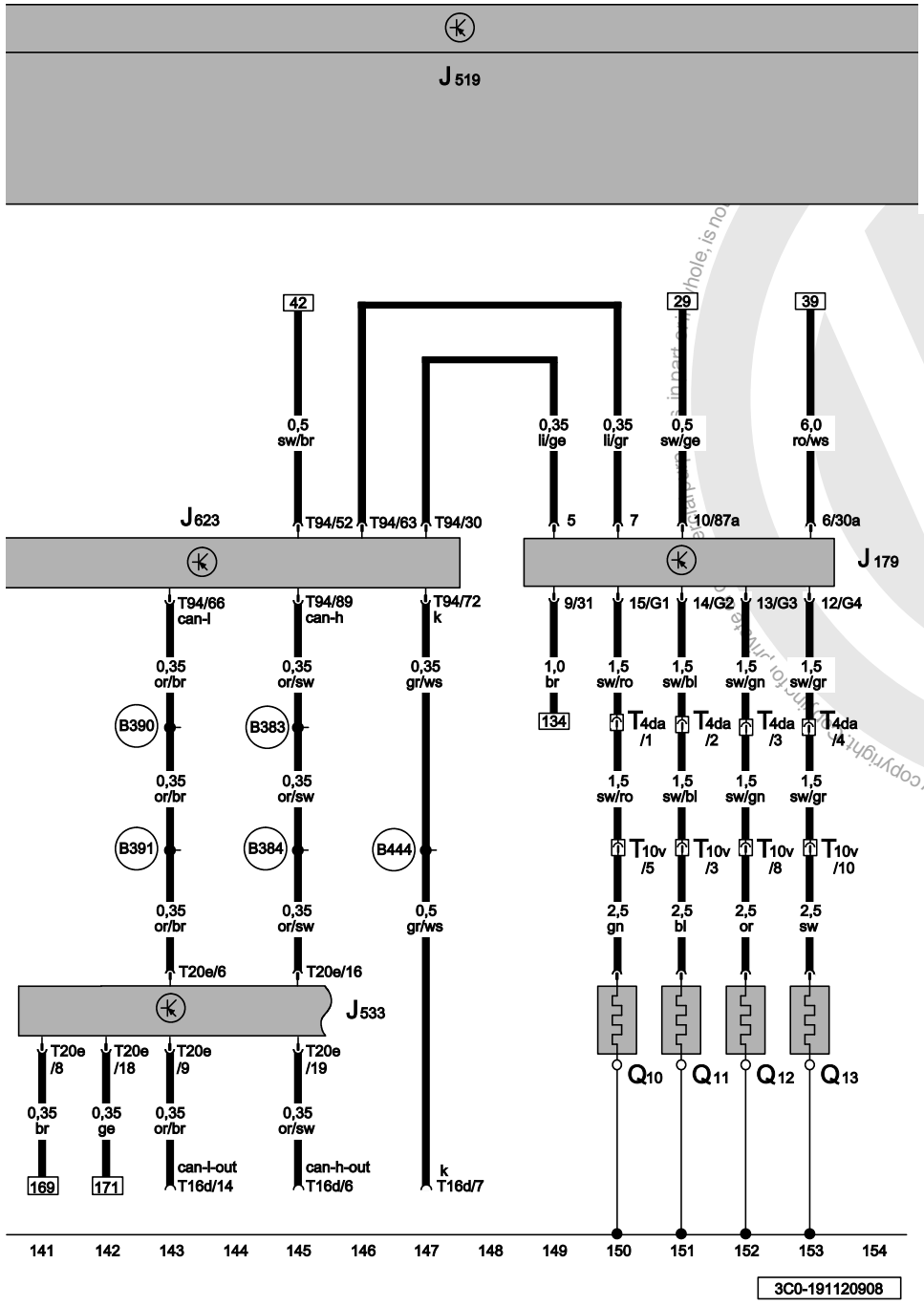
Engine control unit, clutch position sender, brake light switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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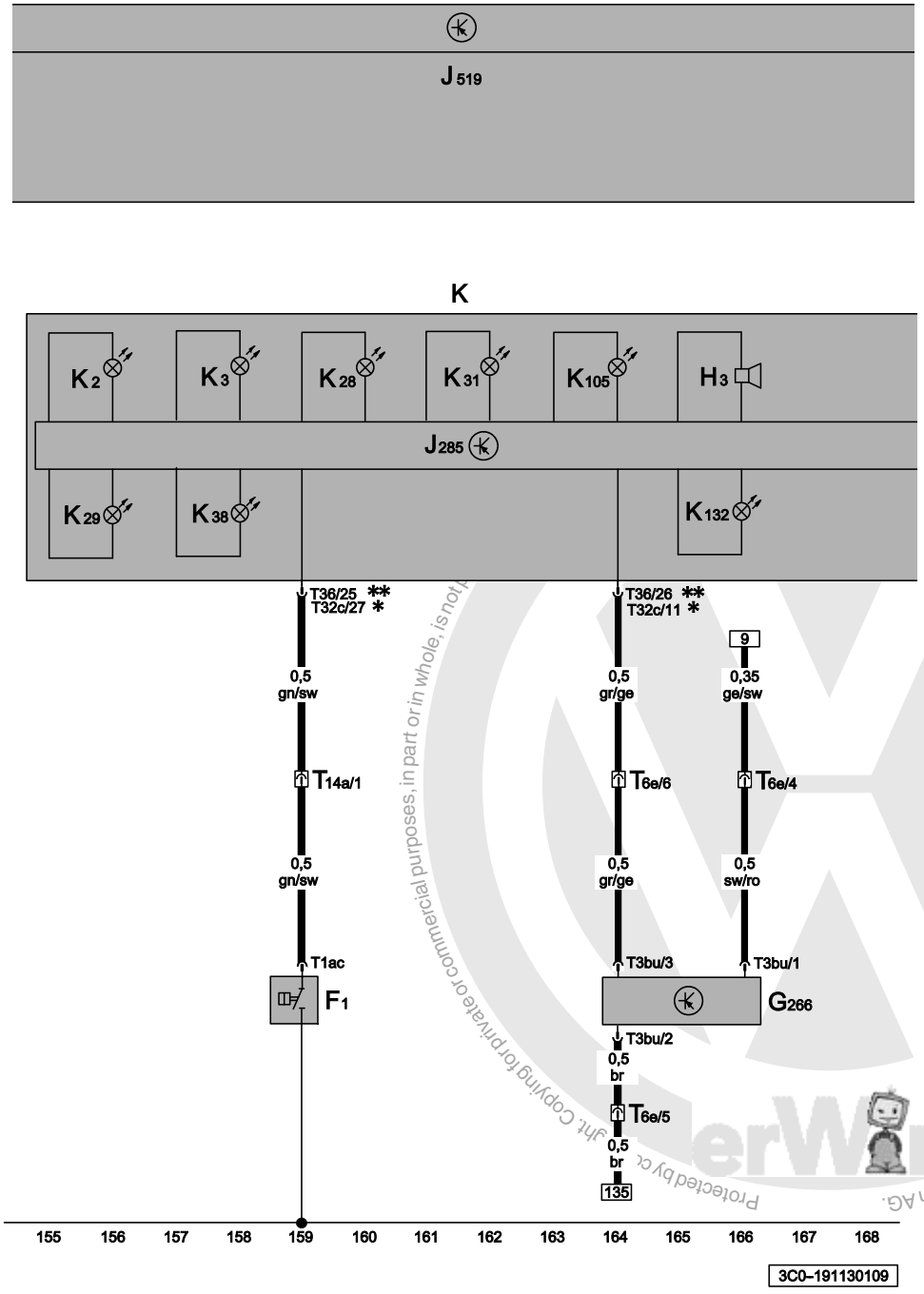


Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T4da	4-pin connector, black
T10v	10-pin connector, on left on cylinder head
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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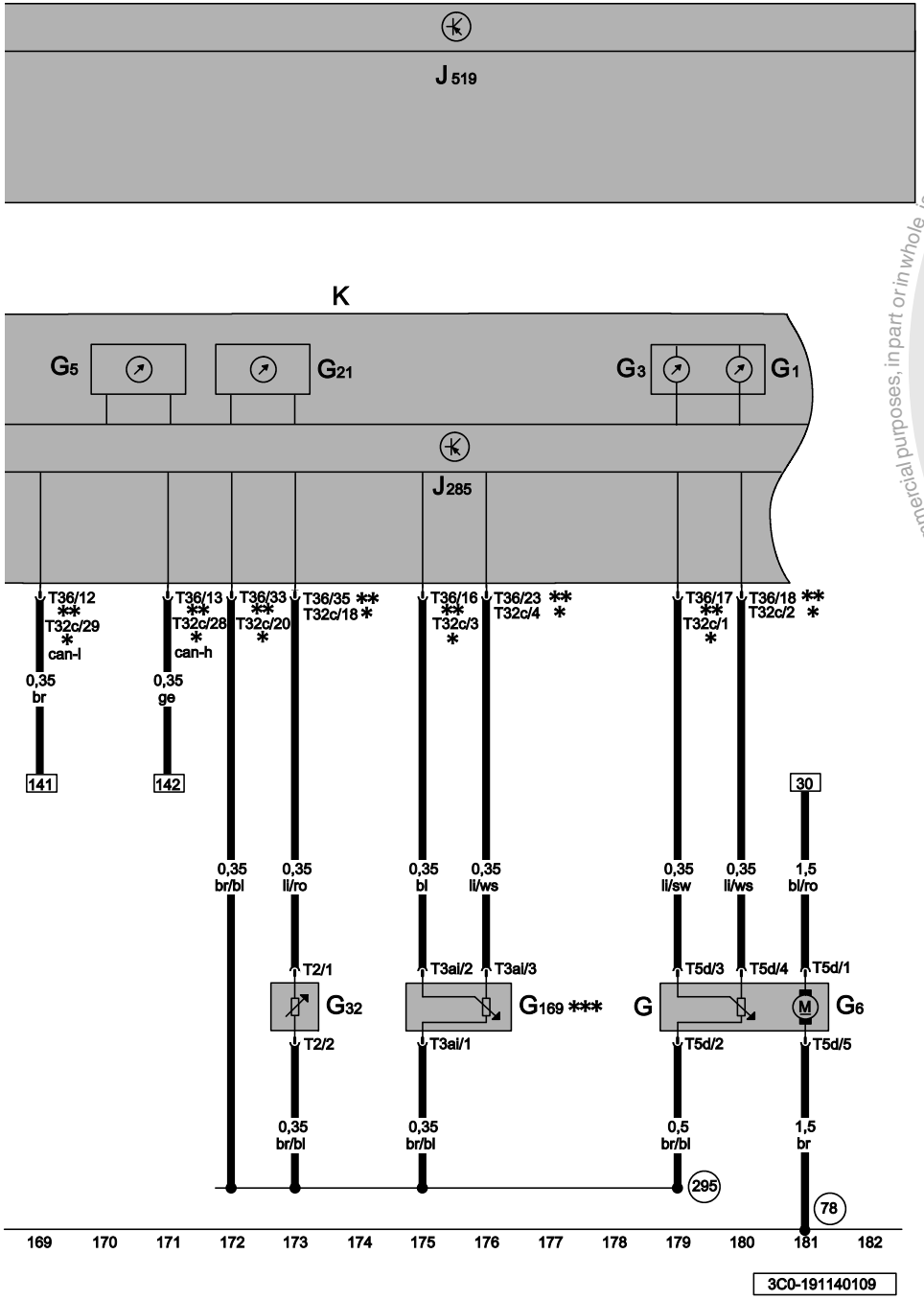


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T32c	32-pin connector
T36	36-pin connector
*	Applicable from November 2008
**	Applicable up to October 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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ge	=	yellow
or	=	orange
rs	=	pink

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Dash panel insert, rev counter, speedometer, coolant temperature gauge, fuel system pressurisation pump, fuel gauge

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T32c	32-pin connector
T36	36-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Applicable from November 2008
**	Applicable up to October 2008
***	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
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Special equipment, police

⇒ **Radio system**
⇒ **Special signal system**
⇒ **Accident data memory**
⇒ **Connection for tachograph**

From May 2008

Notes:

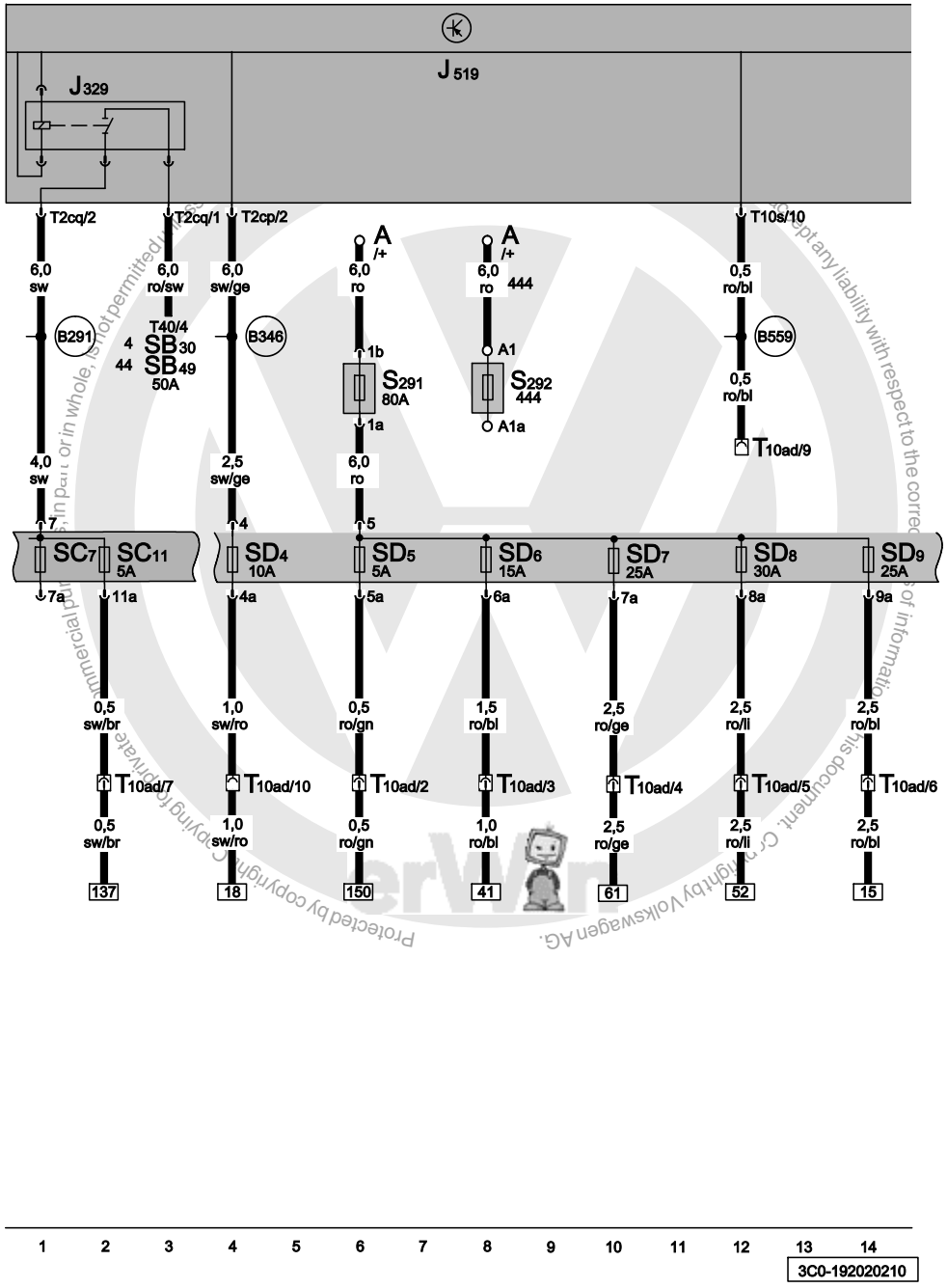
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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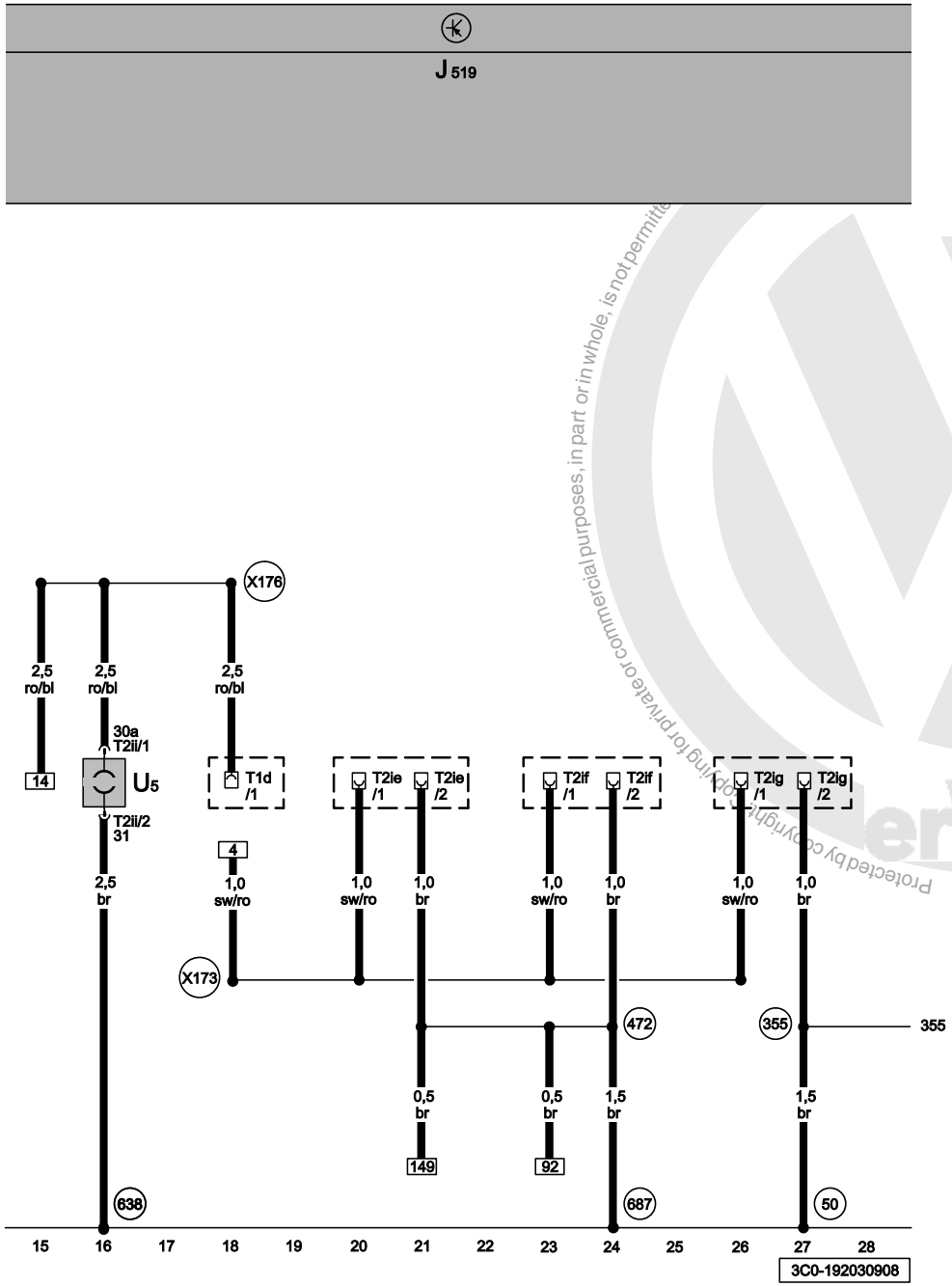


Fuses, terminal 15 voltage supply relay, battery

A	Battery
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
S291	Special vehicle fuse 1
S292	Special vehicle fuse 2, extra fuse box on left headlight
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
SC11	Fuse 11 on fuse holder C
SD4	Fuse 4 on fuse holder D
SD5	Fuse 5 on fuse holder D
SD6	Fuse 6 on fuse holder D
SD7	Fuse 7 on fuse holder D
SD8	Fuse 8 on fuse holder D
SD9	Fuse 9 on fuse holder D
T2cp	2-pin connector
T2cq	2-pin connector
T10ad	10-pin connector, black, coupling point, left A-pillar
T10s	10-pin connector
T40	40-pin connector
B291	Connection 15 (15a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B559	Connection 1 (30g), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	preparation voltage supply luggage compartment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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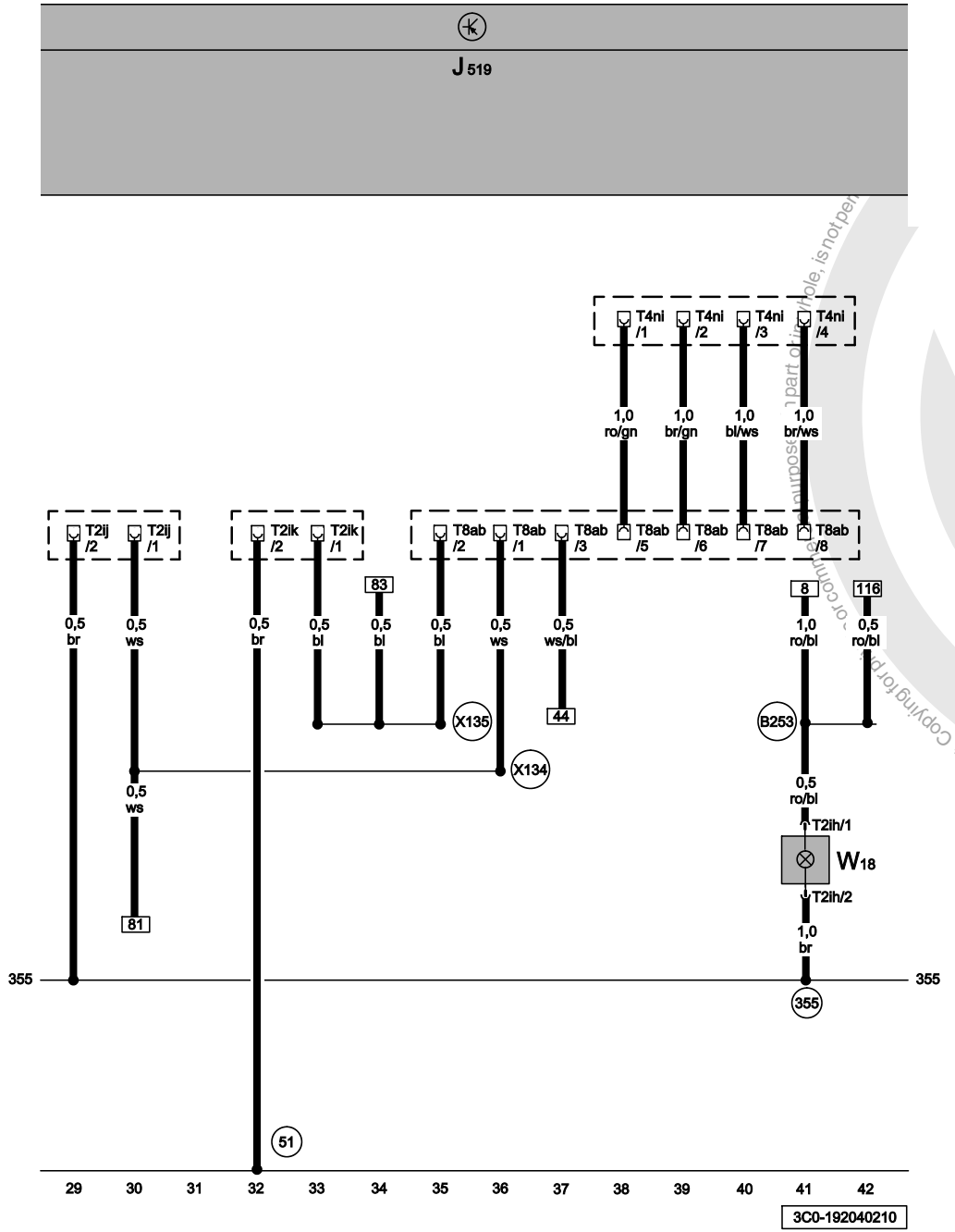


12 V socket, coupling point for preparation for charger

J519	Onboard supply control unit
T1d	Single pin connector, coupling point, near front centre console
T2ie	2-pin connector, charger coupling point, under front right seat
T2if	2-pin connector, charger coupling point, in centre console
T2ig	2-pin connector, charger coupling point in luggage compartment
T2ii	2-pin connector, behind glove compartment
U5	12 V socket, in luggage compartment on right
50	Earth point, on left in luggage compartment
355	Earth connection, in police wiring harness
472	Earth connection 6, in optional equipment wiring harness
638	Earth point, on right A-pillar
687	Earth point 1, on centre tunnel
X173	Positive connection (75a), in wiring harness for tone sequence system
X176	Positive connection 2 (30a), in optional equipment wiring harness

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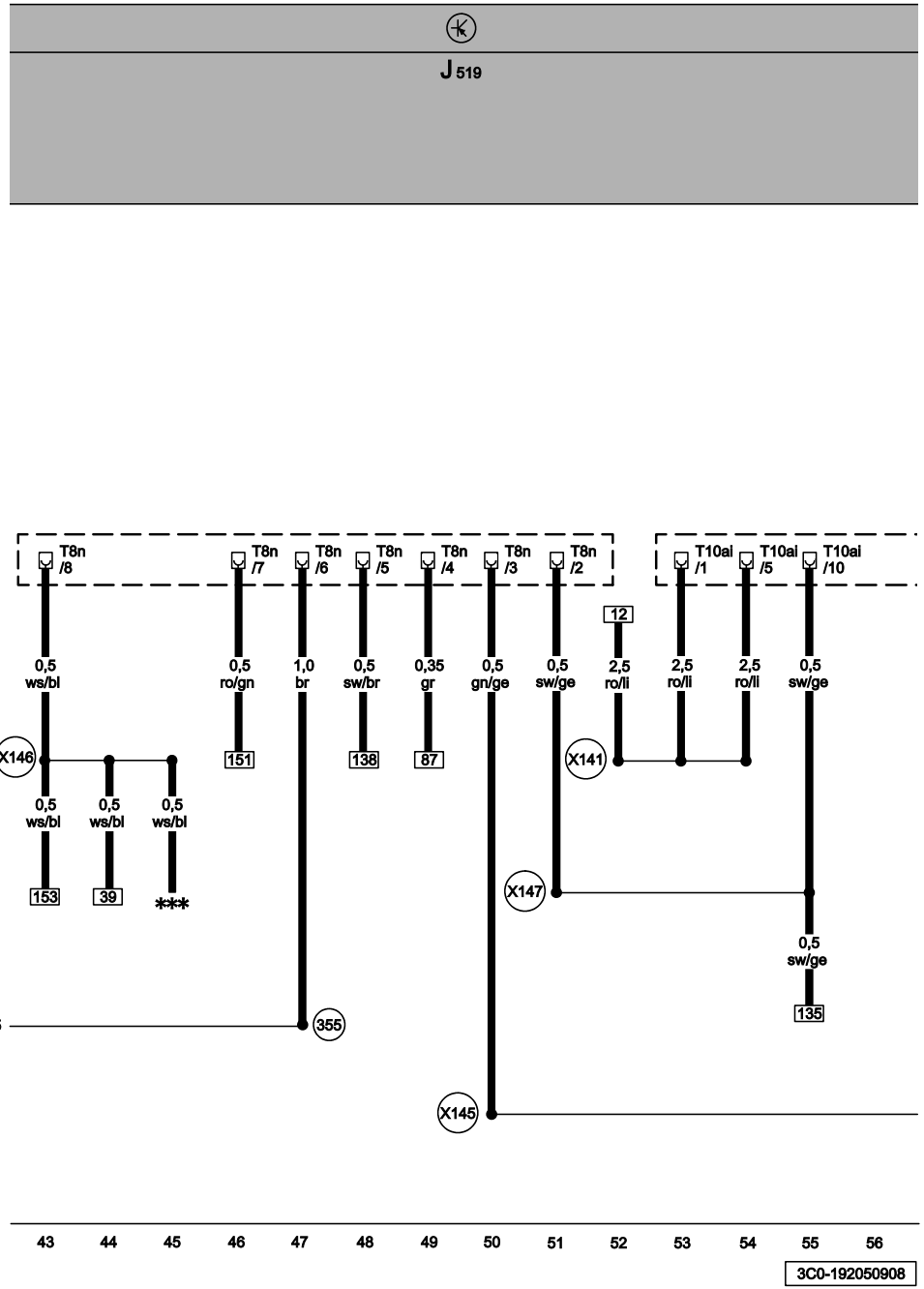


Coupling point for left and right extra turn signal, coupling point for special signals II, luggage compartment light on left, coupling point for pressure chamber loudspeaker

J519	Onboard supply control unit
T2ih	2-pin connector
T2ij	2-pin connector, coupling point for left extra turn signal
T2ik	2-pin connector, coupling point for left extra turn signal
T4ni	4-pin connector, coupling point for pressure chamber loudspeaker, in front of E-box in engine compartment
T8ab	8-pin connector, coupling point for special signals II
W18	Luggage compartment light on left
51	Earth point, on right in luggage compartment
355	Earth connection, in police wiring harness
B253	Positive connection 1 (30a, police), in interior wiring harness
X134	Connection 1, in siren wiring harness
X135	Positive connection (15a), in wiring harness for tone sequence system

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sw	=	black
ro	=	red
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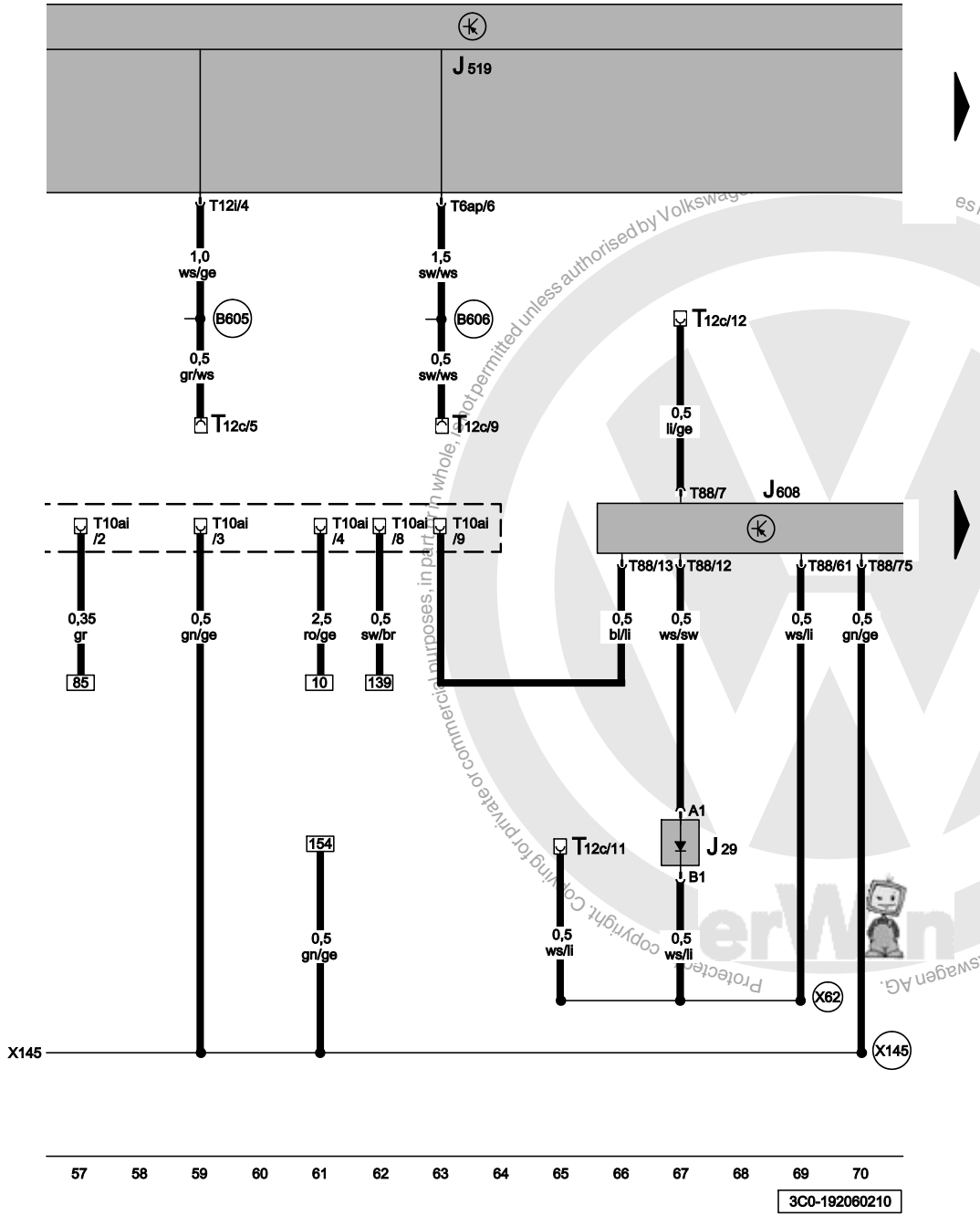


Coupling point for tachograph, coupling point for special signals

J519	Onboard supply control unit
T8n	8-pin connector, coupling point for tachograph in luggage compartment
T10ai	10-pin connector, coupling point for special signals, right A-pillar
355	Earth connection, in police wiring harness
X141	Positive connection 4 (30a), in siren wiring harness
X145	Connection 7, in optional equipment wiring harness
X146	Connection 8, in optional equipment wiring harness
X147	Positive connection 6 (30), in optional equipment wiring harness
***	Wiring secured to dash panel insert

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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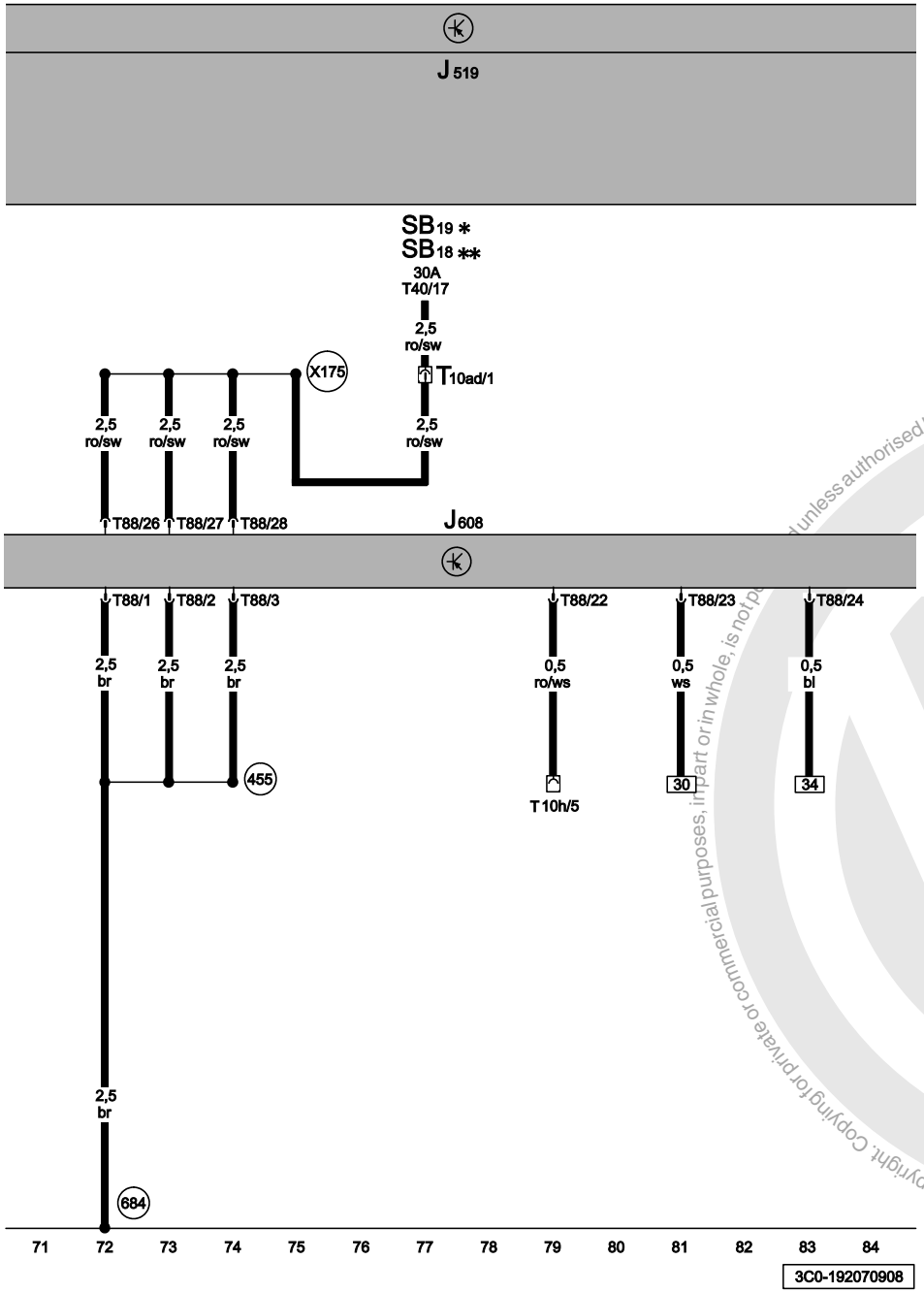


Special vehicle control unit, blocking diode, coupling point for special signals

J29	Blocking diode
J519	Onboard supply control unit
J608	Special vehicle control unit
T6ap	6-pin connector
T12i	12-pin connector
T12c	12-pin connector, black, coupling point, left A-pillar
T10ai	10-pin connector, brown, coupling point for special signals, right A-pillar
T88	88-pin connector
B605	Connection 1, in interior wiring harness
B606	Connection 2, in interior wiring harness
X62	Positive connection 3 (15a), in optional equipment wiring harness
X145	Connection 7, in optional equipment wiring harness

ws	=	white
sw	=	black
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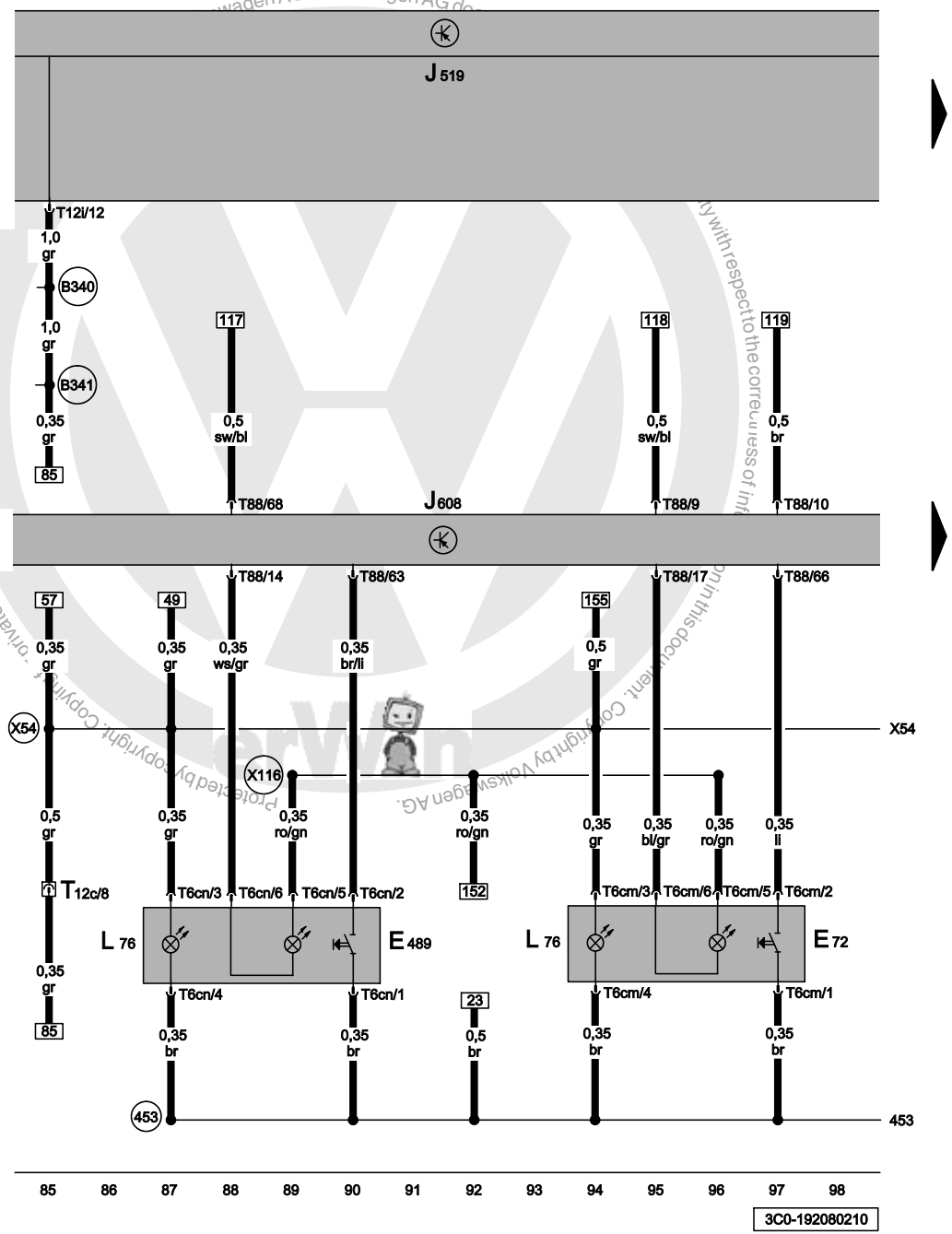


Special vehicle control unit, fuse, coupling point for rear lid

J519	Onboard supply control unit
J608	Special vehicle control unit
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T10ad	10-pin connector, black, coupling point, left A-pillar
T10h	10-pin connector, coupling point, rear lid right
T40	40-pin connector
T88	88-pin connector
455	Earth connection 5, in optional equipment wiring harness
684	Earth point, on front of left side member
X175	Positive connection (30a), in optional equipment wiring harness
*	Only models with E-box low
**	Only models with E-box high

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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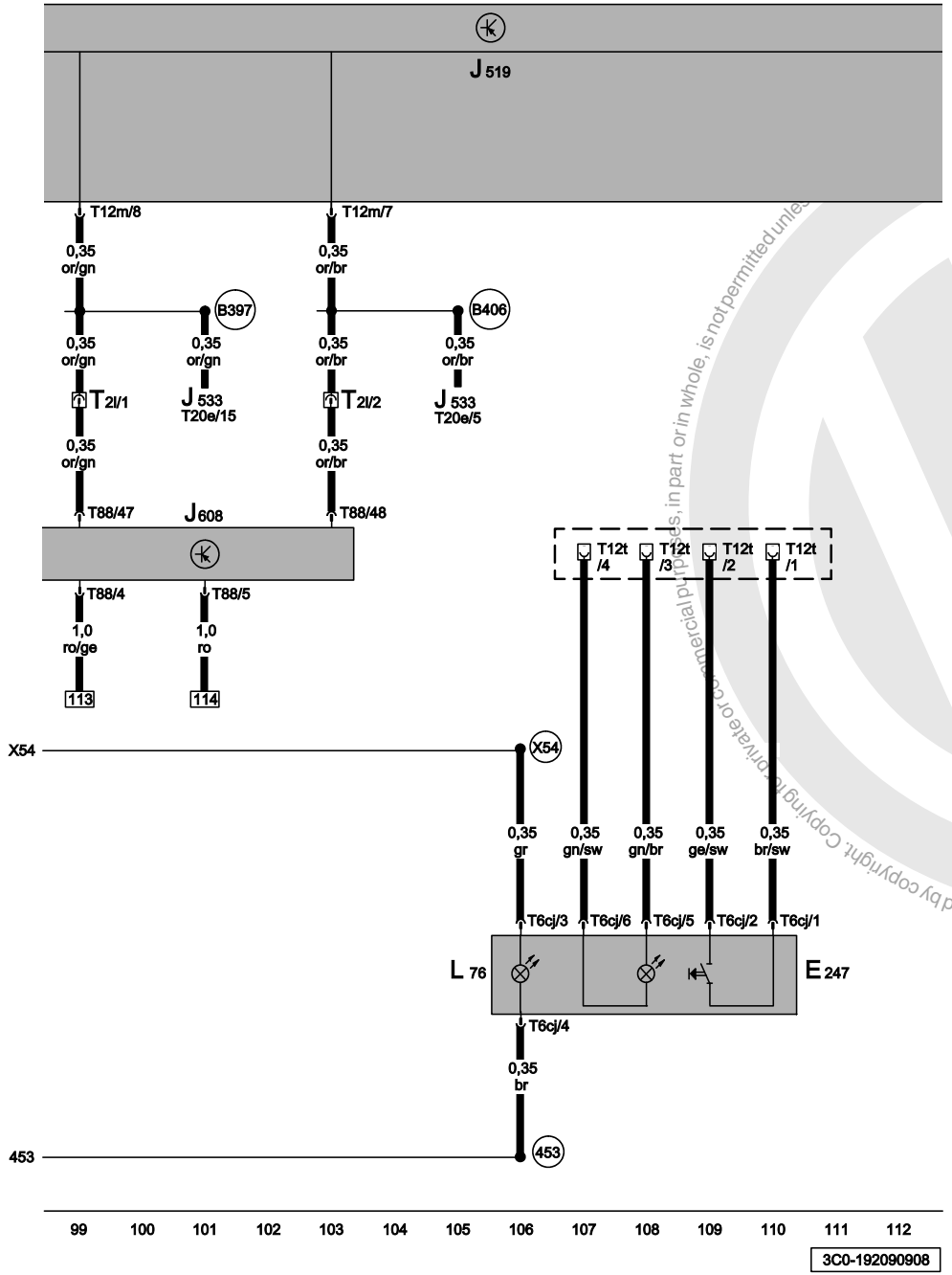
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Special vehicle control unit, 2-way radio switch, engine continues to run with no key button

E72	2-way radio switch
E489	Engine continues to run with no key button
J519	Onboard supply control unit
J608	Special vehicle control unit
L76	Button illumination bulb
T6cm	6-pin connector, in centre console
T6cn	6-pin connector, in centre console
T12c	12-pin connector, black, coupling point, left A-pillar
T12i	12-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
X54	Positive connection (58), in optional equipment wiring harness
X116	Positive connection 2 (30), in optional equipment wiring harness

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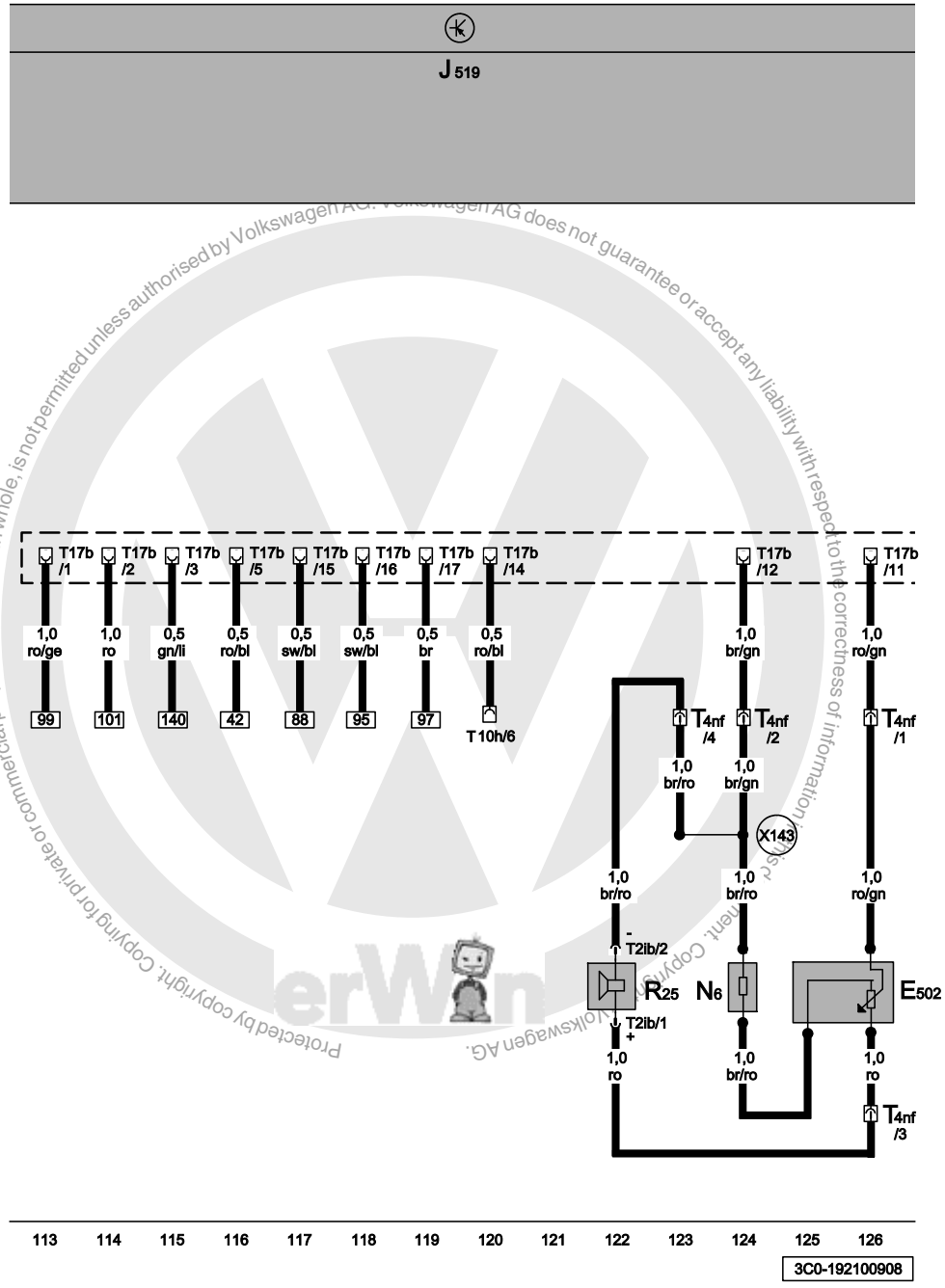


Special vehicle control unit, onboard supply control unit, switch to trip alarm, coupling point 2-way radio button

E247	Switch to trip alarm
J519	Onboard supply control unit
J608	Special vehicle control unit
J533	Data bus diagnosis interface
L76	Button illumination bulb
T2l	2-pin connector
T6cj	6-pin connector
T12m	12-pin connector, black
T12t	12-pin connector, coupling point for two-way radio in luggage compartment
T20e	20-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
X54	Positive connection (58), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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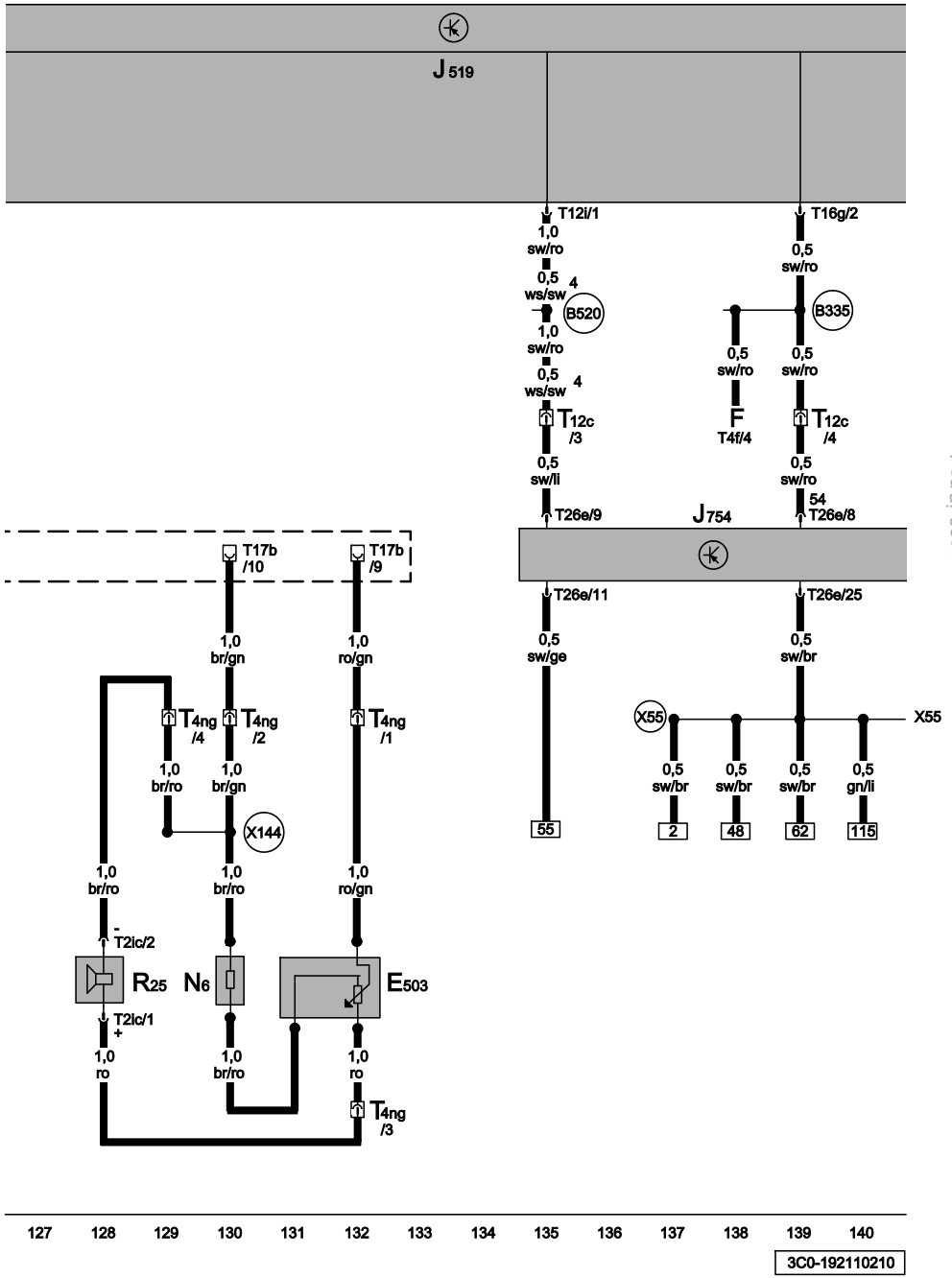


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2-way radio loudspeaker volume control 1, coupling point for 2-way radio, coupling point for rear lid, 2-way radio speaker

E502	1-way radio loudspeaker volume control 2
J519	Onboard supply control unit
N6	Series resistor
R25	Two-way radio loudspeaker
T2ib	2-pin connector
T4nf	4-pin connector, on 1-way radio loudspeaker volume control 2
T10h	10-pin connector, coupling point, rear lid right
T17b	17-pin connector, coupling point for two-way radio in luggage compartment
X143	Positive connection 4 (30), in optional equipment wiring harness

ws	=	white
sw	=	black
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gn	=	green
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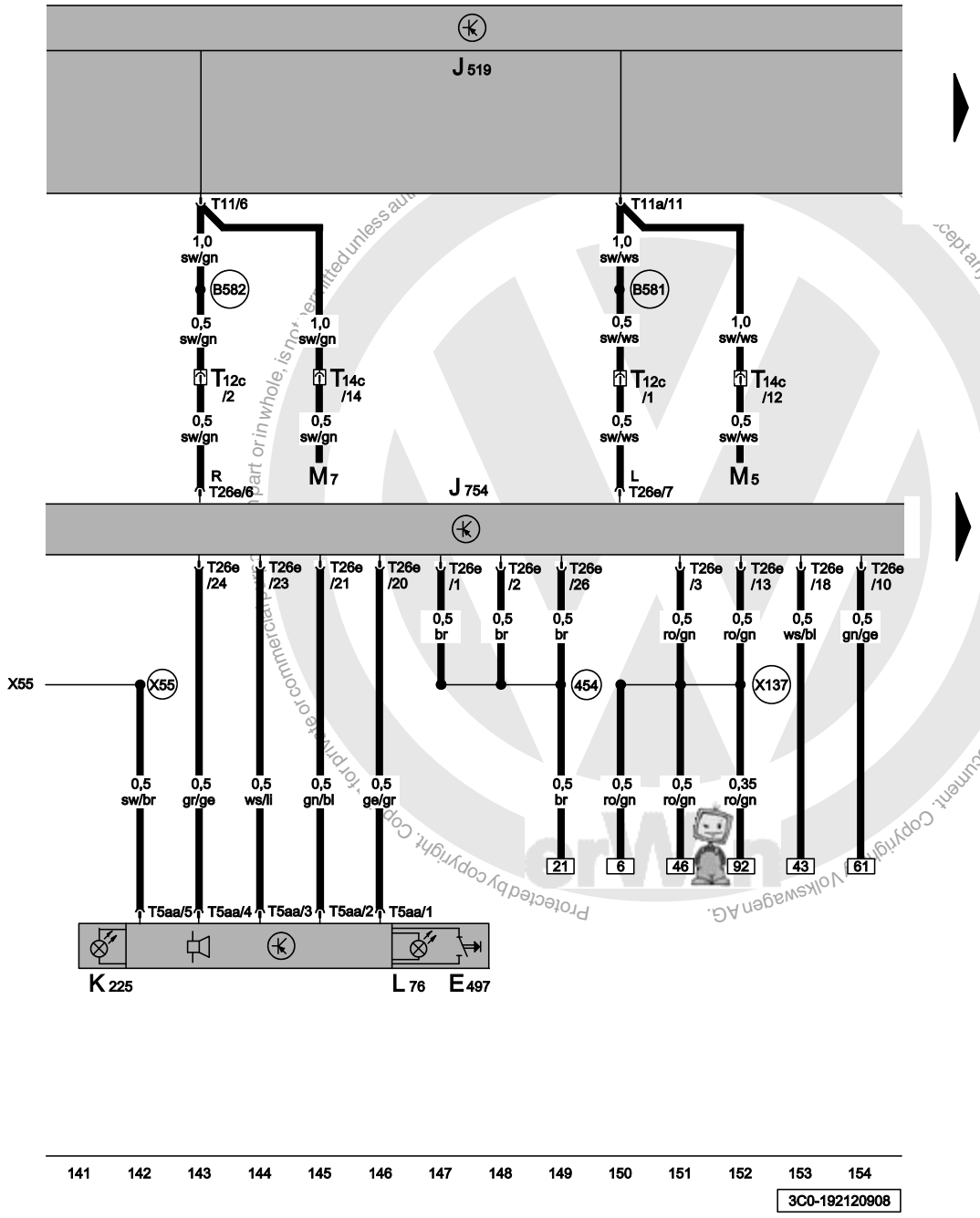


2-way radio loudspeaker volume control 2, coupling point for 2-way radio, 2-way radio speaker, onboard supply control unit, accident data memory

E503	2-way radio loudspeaker volume control 2
F	Brake light switch
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
N6	Series resistor
R25	Two-way radio loudspeaker
T2ic	2-pin connector
T4f	4-pin connector
T4ng	4-pin connector, on 2-way radio loudspeaker volume control 2
T12c	12-pin connector, black, coupling point, left A-pillar
T12i	12-pin connector, black
T16g	16-pin connector, black
T17b	17-pin connector, coupling point for two-way radio in luggage compartment
T26e	26-pin connector
B335	Connection 1 (54), in main wiring harness
B520	Connection (RL), in main wiring harness
X55	Positive connection (15), in optional equipment wiring harness
X144	Positive connection 5 (30), in optional equipment wiring harness
*	Applicable from May 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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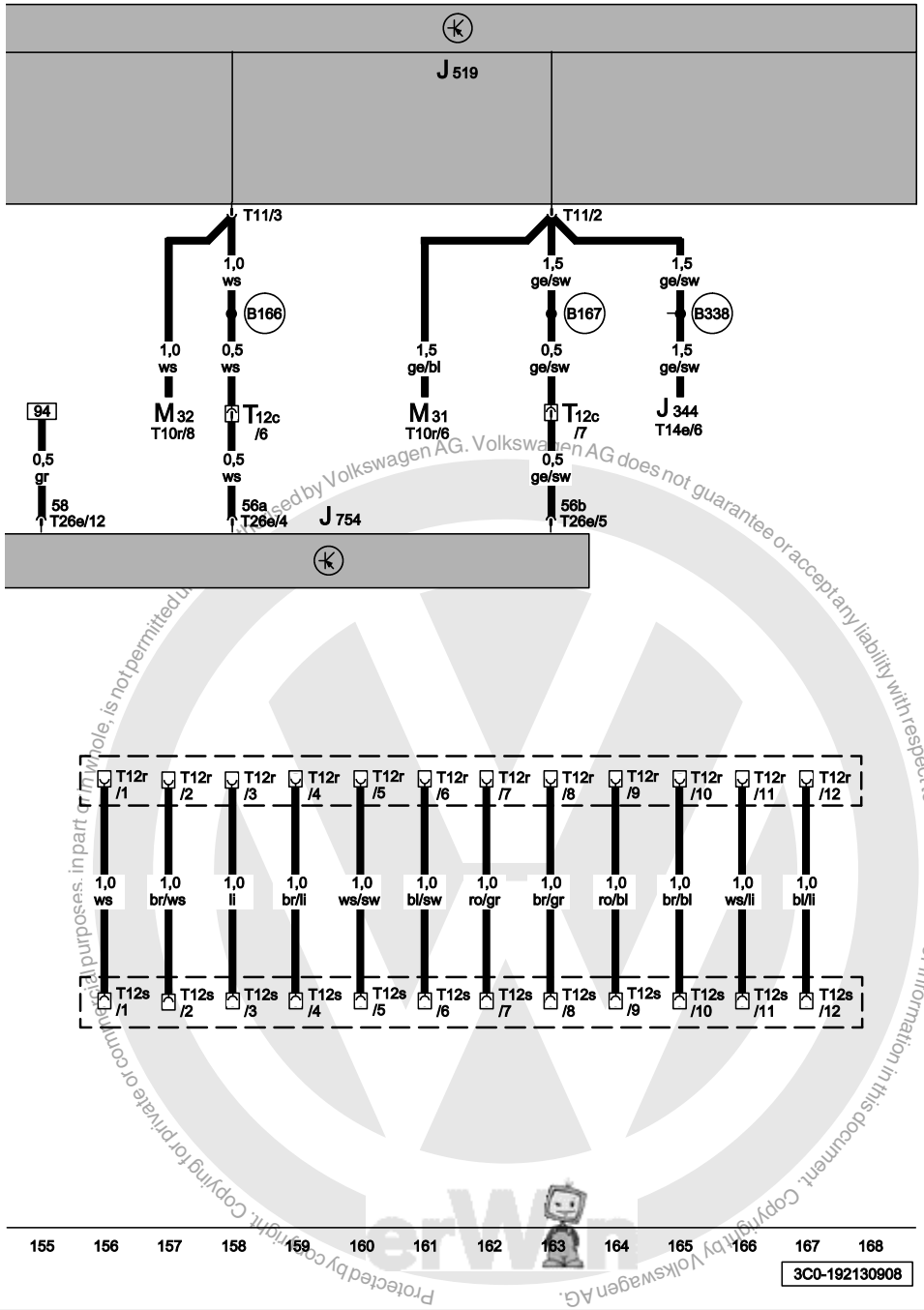


Accident data recorder, accident data recorder button, accident recorder warning lamp

E497	Accident data recorder button
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
K225	Accident recorder warning lamp
L76	Button illumination bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
T5aa	5-pin connector
T11	11-pin connector, black
T11a	11-pin connector, brown
T12c	12-pin connector, black, coupling point, left A-pillar
T14c	14-pin connector, front bumper coupling point, left
T26e	26-pin connector
454	Earth connection 4, in optional equipment wiring harness
B581	Positive connection (left indicator lamp), in interior wiring harness
B582	Positive connection (right indicator lamp), interior wiring harness
X55	Positive connection (15), in optional equipment wiring harness
X137	Positive connection 2 (30a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Accident data memory, right dipped beam bulb, right main beam bulb, special vehicle fuse 2

J344	Right gas discharge bulb control unit
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
M31	Right headlight dipped beam bulb
M32	Right headlight main beam bulb
T10r	10-pin connector, black
T11	11-pin connector, black
T12c	12-pin connector, black, coupling point, left A-pillar
T12r	12-pin connector, coupling point for 2-way radio, right A-pillar
T12s	12-pin connector, coupling point for two-way radio in luggage compartment
T14e	14-pin connector, on front right headlight
T26e	26-pin connector
B166	Connection (56a), in interior wiring harness
B167	Connection (56b), in interior wiring harness
B338	Connection 1 (56), in main wiring harness

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Special equipment, crime investigation

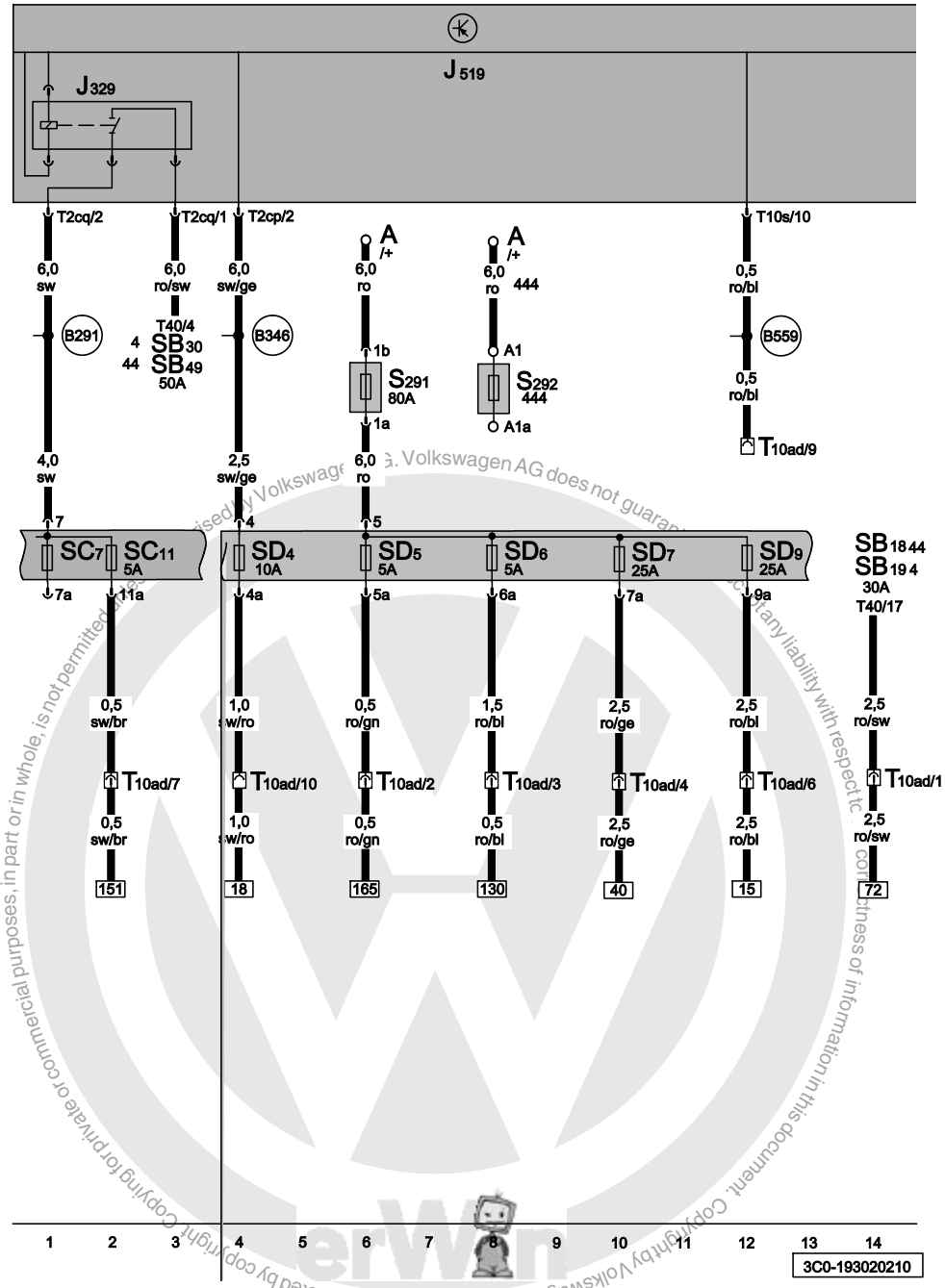
⇒ **Radio system**
⇒ **Special signal system**
⇒ **Accident data memory**
From May 2008

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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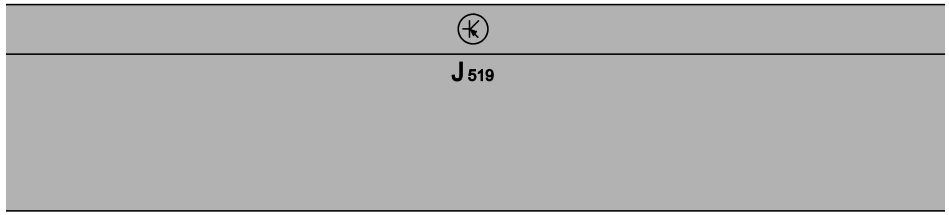


Fuses, terminal 15 voltage supply relay, battery

A	Battery
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
S291	Special vehicle fuse 1
S292	Special vehicle fuse 2, extra fuse box on left headlight
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
SB30	Fuse 30 on fuse holder B
SB49	Fuse 49 on fuse holder B
SC7	Fuse 7 on fuse holder C
SC11	Fuse 11 on fuse holder C
SD4	Fuse 4 on fuse holder D
SD5	Fuse 5 on fuse holder D
SD6	Fuse 6 on fuse holder D
SD7	Fuse 7 on fuse holder D
SD9	Fuse 9 on fuse holder D
T2cp	2-pin connector
T2cq	2-pin connector
T10ad	10-pin connector, black, coupling point, left A-pillar
T10s	10-pin connector
T40	40-pin connector
B291	Connection 15 (15a), in main wiring harness
B346	Connection 1 (75), in main wiring harness
B559	Connection 1 (30g), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	preparation voltage supply luggage compartment

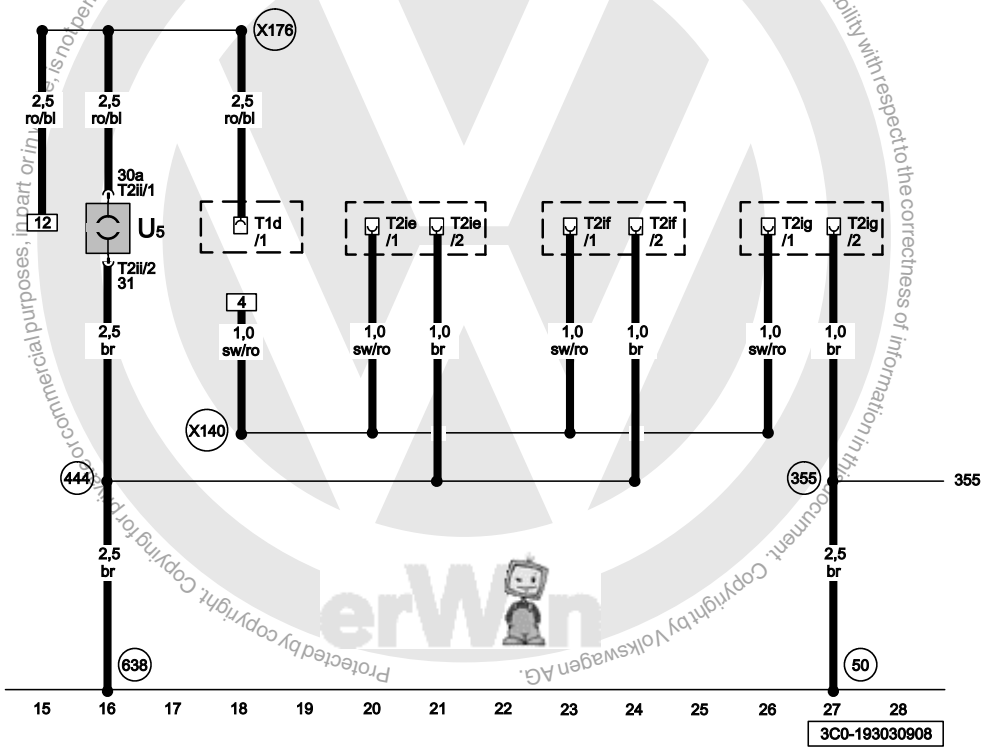
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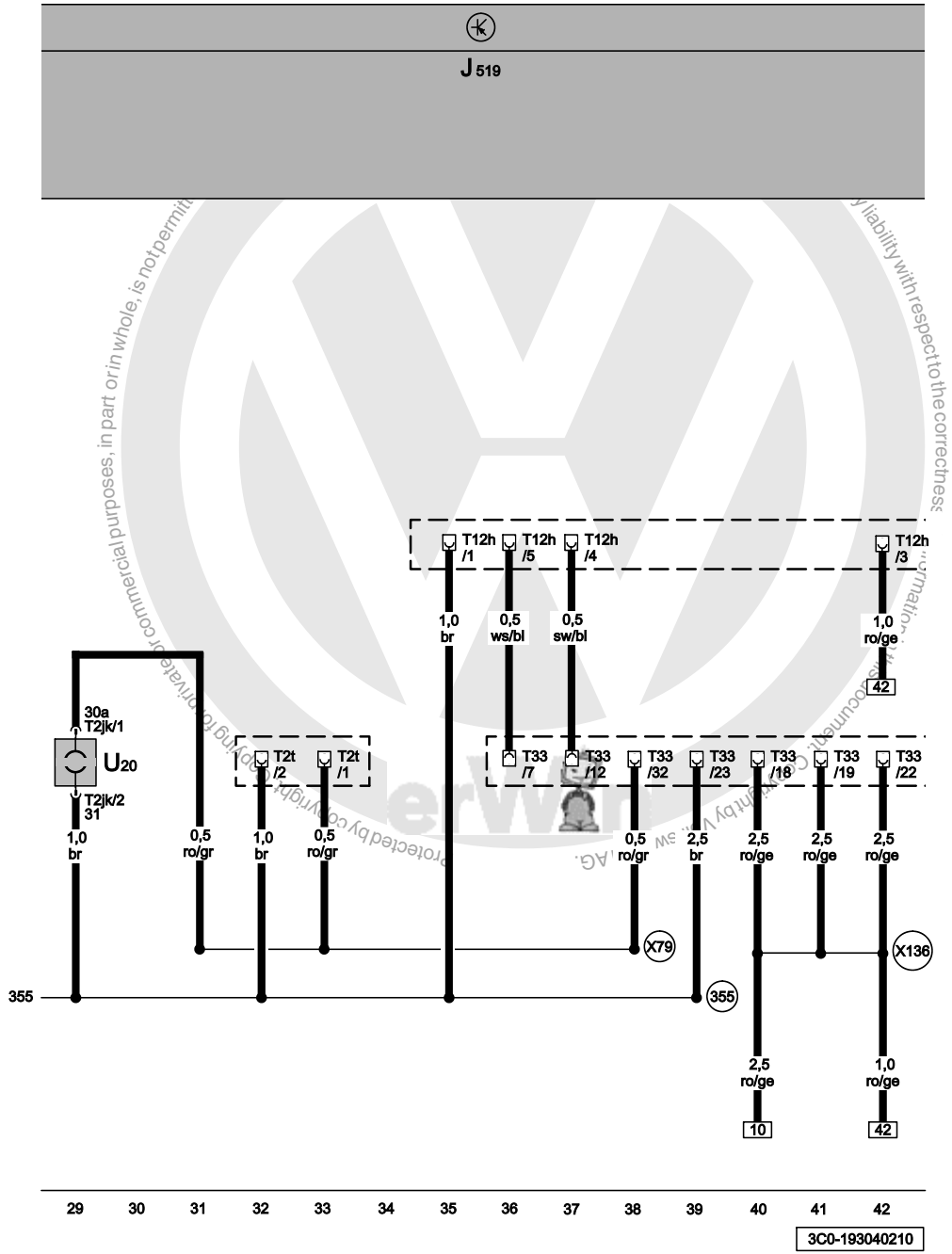
12 V socket, coupling point for preparation for charger

J519	Onboard supply control unit
T1d	Single pin connector, coupling point, near front centre console
T2ie	2-pin connector, charger coupling point, under front right seat
T2if	2-pin connector, coupling point for preparation for charger, under rear seat
T2ig	2-pin connector, charger coupling point in luggage compartment
T2ii	2-pin connector
U5	12 V socket, in luggage compartment
50	Earth point, on left in luggage compartment
355	Earth connection, in police wiring harness
444	Earth connection 5, in siren system wiring harness
638	Earth point, on right A-pillar
X140	Positive connection 2 (15a), in siren wiring harness
X176	Positive connection 2 (30a), in optional equipment wiring harness



ws = white
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ro = red
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gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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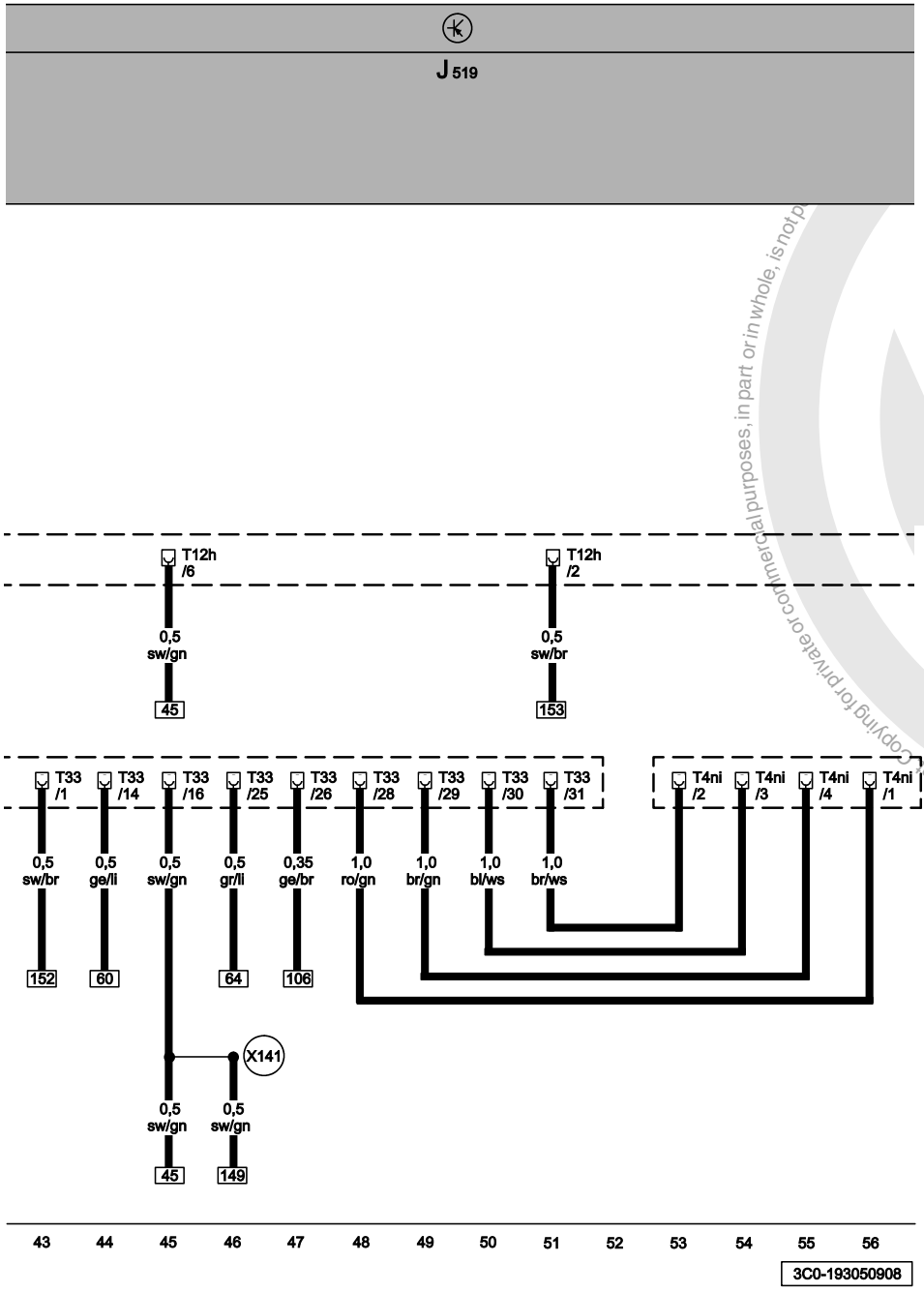


Coupling point for rotating light, special vehicle control unit

J519	Onboard supply control unit
T2jk	2-pin connector
T2t	2-pin connector, coupling point for rotating light under front left seat
T12h	12-pin connector, operating unit for special signal system, in radio slot in centre of dash panel
T33	33-pin connector, coupling point for special signal control unit under front left seat
U20	12 V socket, in glove compartment
355	Earth connection, in police wiring harness
X79	Connection 2, in optional equipment wiring harness
X136	Positive connection 1 (30a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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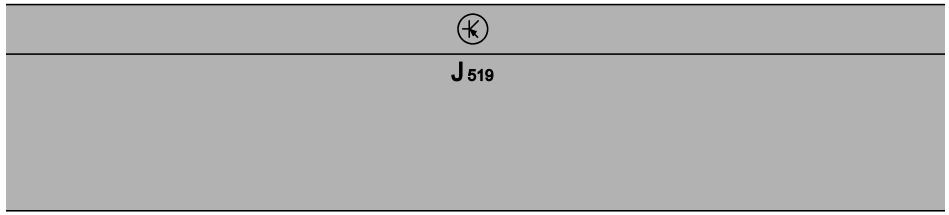


Special signal control unit, coupling point for special signal system, coupling point for pressure chamber loudspeaker

J519	Onboard supply control unit
T4ni	4-pin connector, coupling point for pressure chamber loudspeaker, in front of E-box in engine compartment
T12h	12-pin connector, operating unit for special signal system, in radio slot in centre of dash panel
T33	33-pin connector, coupling point for special signal control unit under front left seat
X141	Positive connection 4 (30a), in siren wiring harness

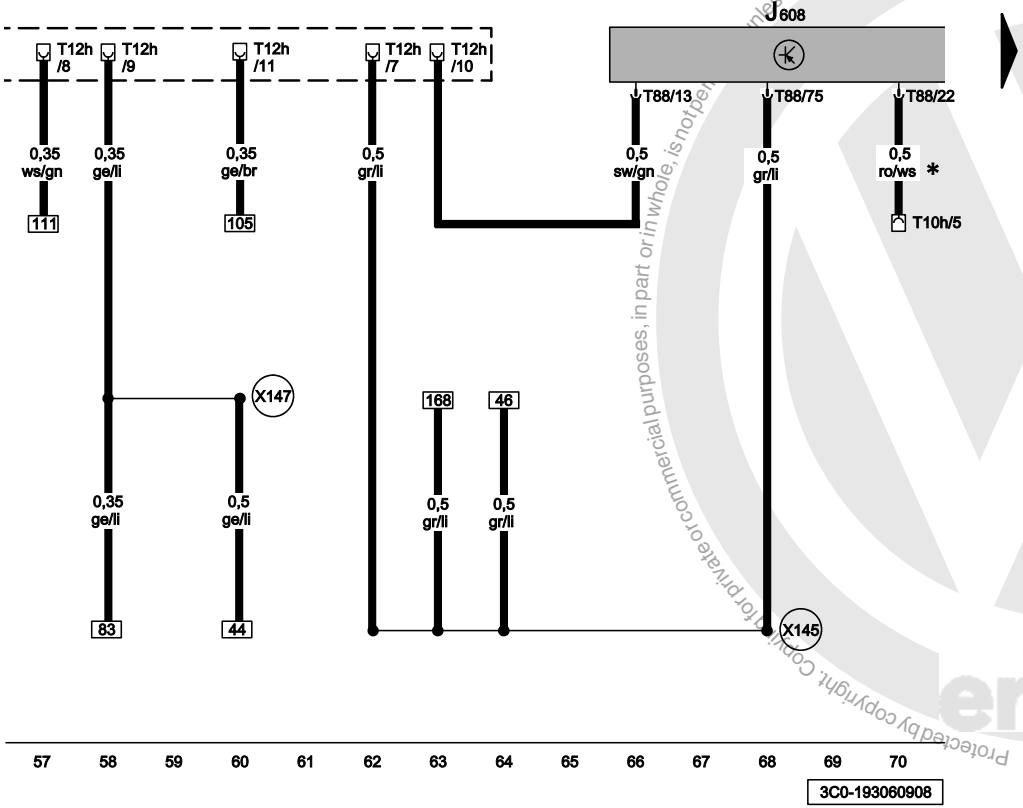
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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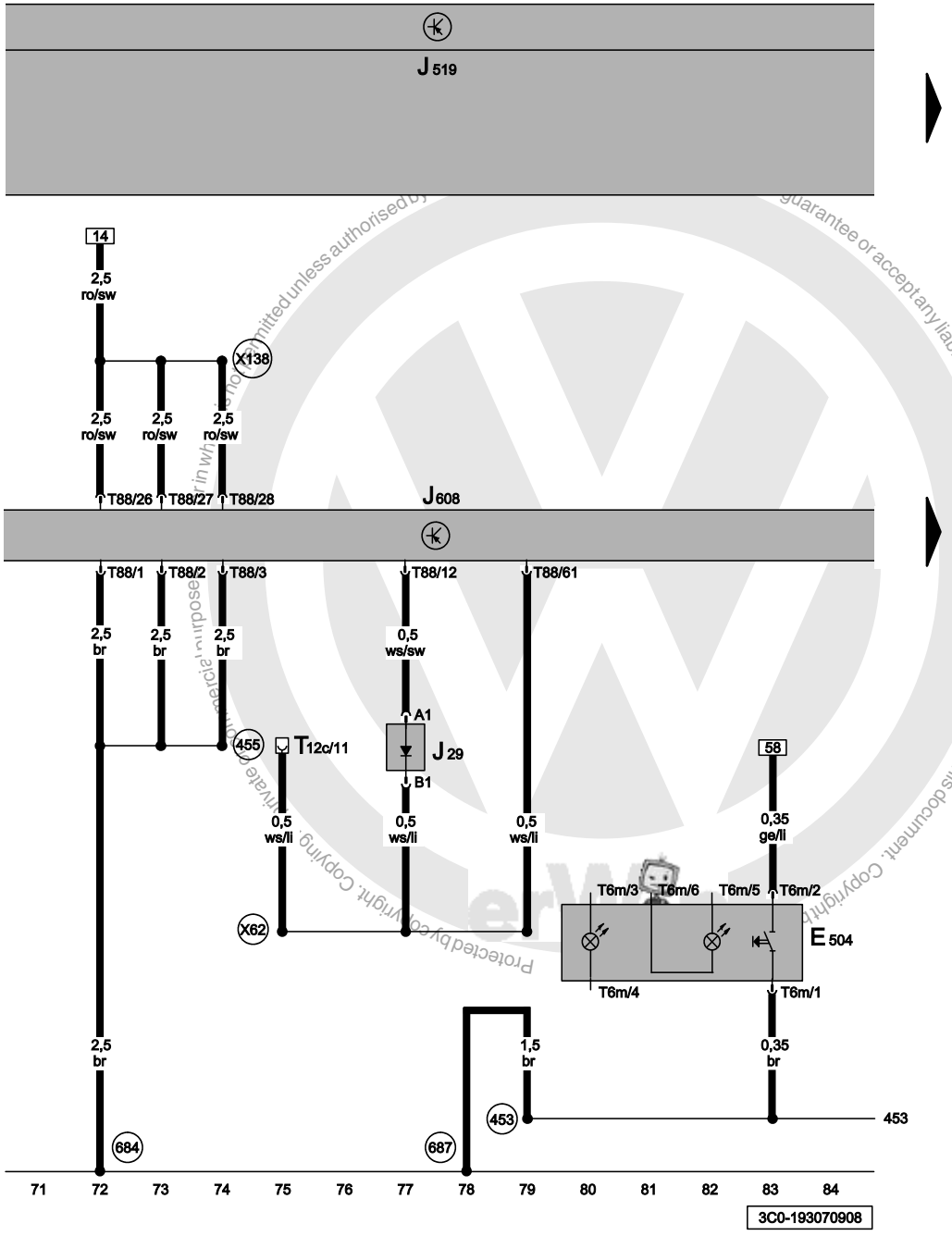
Operating unit special signal system, special vehicle control unit

J519	Onboard supply control unit
J608	Special vehicle control unit
T10h	10-pin connector, coupling point, rear lid right
T12h	12-pin connector, operating unit for special signal system, in radio slot in centre of dash panel
T88	88-pin connector
X145	Connection 7, in optional equipment wiring harness
X147	Positive connection 6 (30), in optional equipment wiring harness
*	Only Variant



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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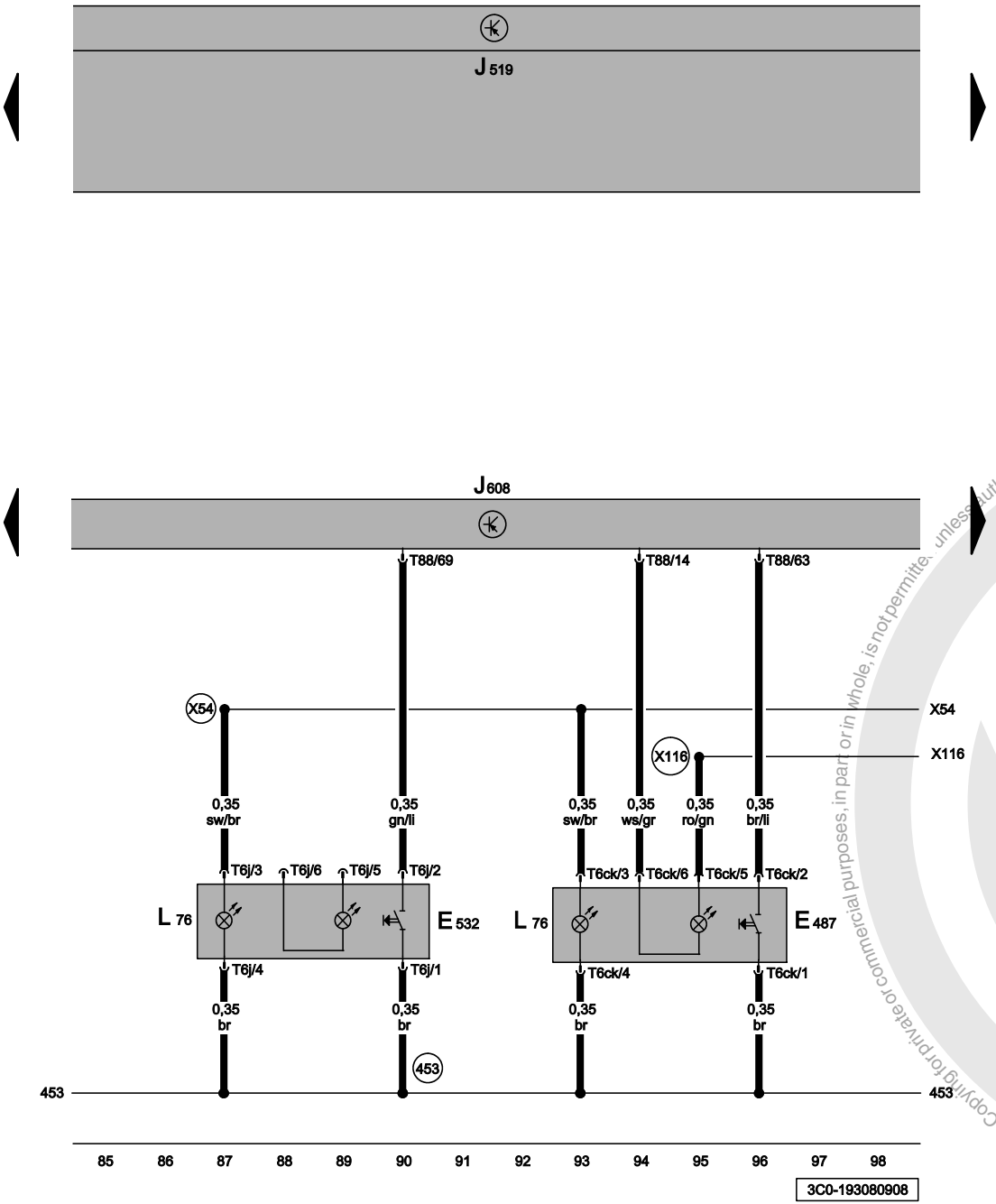


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Special vehicle control unit, blocking diode, functional test button for special signal system

E504	Functional test button for special signal system
J29	Blocking diode
J519	Onboard supply control unit
J608	Special vehicle control unit
T6m	6-pin connector
T12c	12-pin connector, black, coupling point, left A-pillar
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
455	Earth connection 5, in optional equipment wiring harness
684	Earth point, on front of left side member
687	Earth point 1, on centre tunnel
X62	Positive connection 3 (15a), in optional equipment wiring harness
X138	Positive connection 3 (30a), in siren wiring harness

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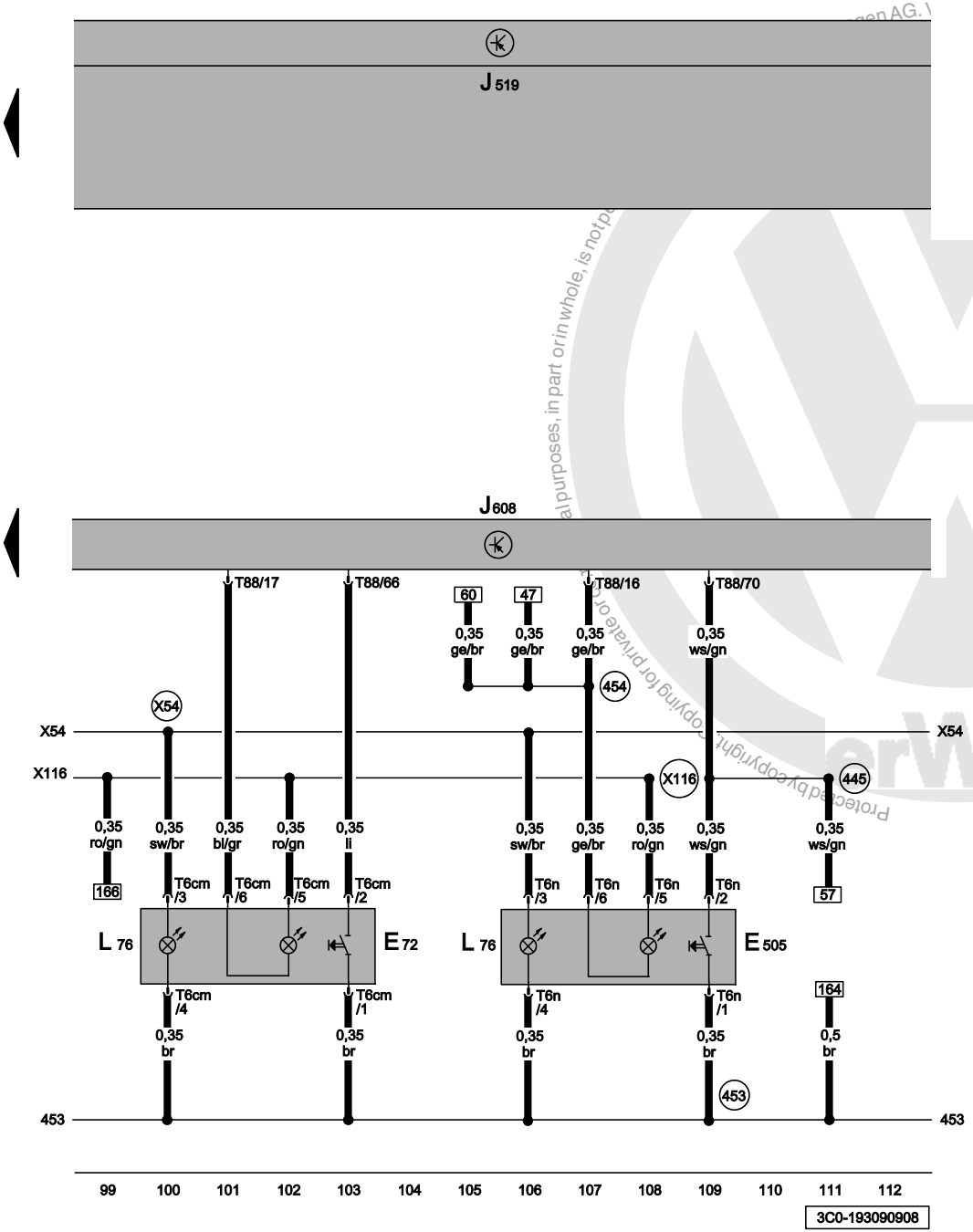


Special vehicle control unit, hands-free system button, button to deactivate interior lights

E487	Hands-free system button
E532	Button to deactivate interior lights
J519	Onboard supply control unit
J608	Special vehicle control unit
L76	Button illumination bulb
T6j	6-pin connector
T6ck	6-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
X54	Positive connection (58), in optional equipment wiring harness
X116	Positive connection 2 (30), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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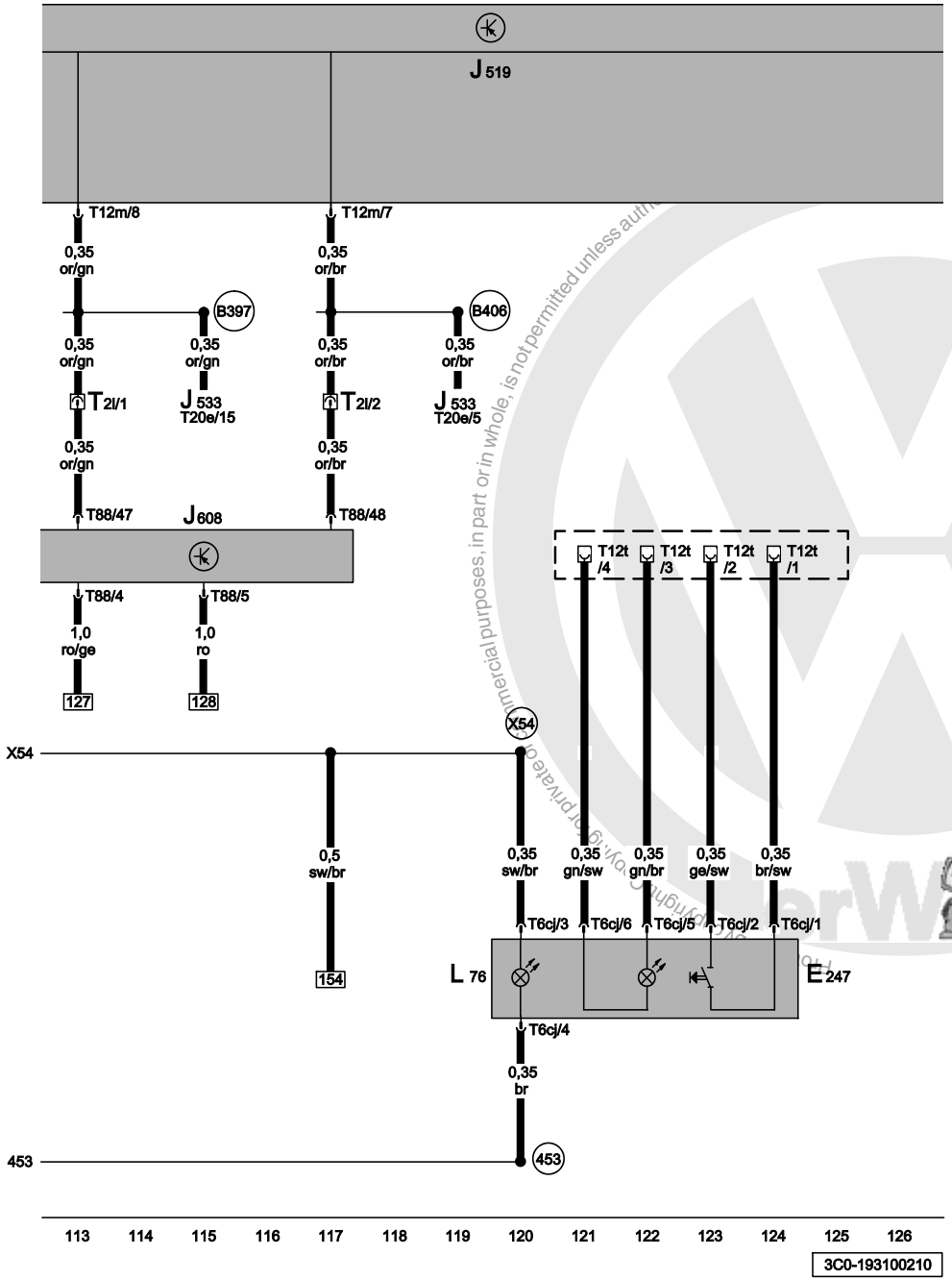


Special vehicle control unit, 2-way radio switch, special signal system changeover button

E72	2-way radio switch
E505	Special signal system changeover button
J519	Onboard supply control unit
J608	Special vehicle control unit
L76	Button illumination bulb
T6n	6-pin connector
T6cm	6-pin connector
T88	88-pin connector
445	Earth connection 6, in siren system wiring harness
453	Earth connection 3, in optional equipment wiring harness
454	Earth connection 4, in optional equipment wiring harness
X54	Positive connection (58), in optional equipment wiring harness
X116	Positive connection 2 (30), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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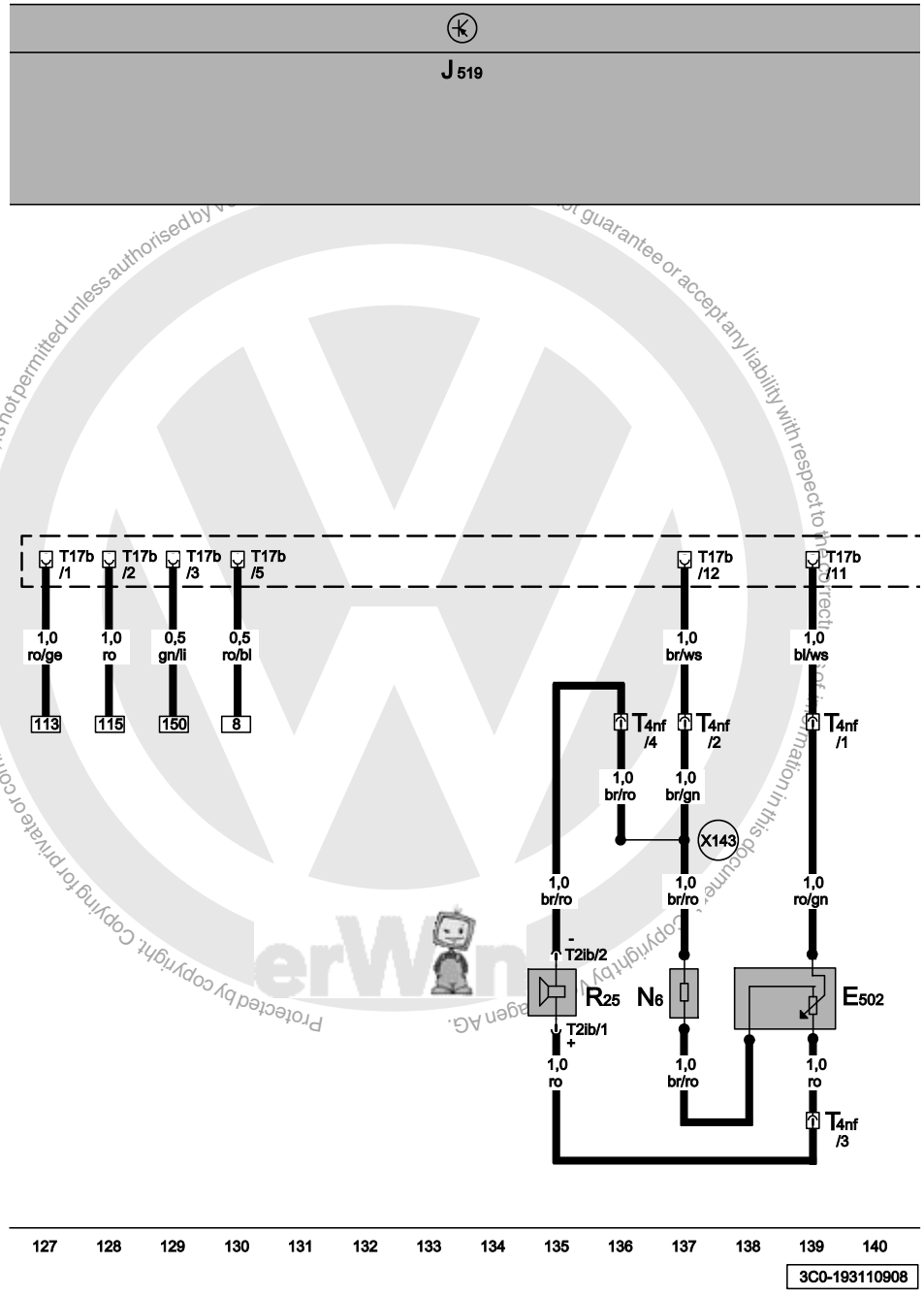


Special vehicle control unit, onboard supply control unit, switch to trip alarm, coupling point 2-way radio button

E247	Switch to trip alarm
J519	Onboard supply control unit
J608	Special vehicle control unit
J533	Data bus diagnosis interface
L76	Button illumination bulb
T2l	2-pin connector, on diagnostic interface for data bus, near steering column
T6cj	6-pin connector
T12m	12-pin connector, black
T12t	12-pin connector, coupling point for 2-way radio button in spare wheel well
T20e	20-pin connector
T88	88-pin connector
453	Earth connection 3, in optional equipment wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
X54	Positive connection (58), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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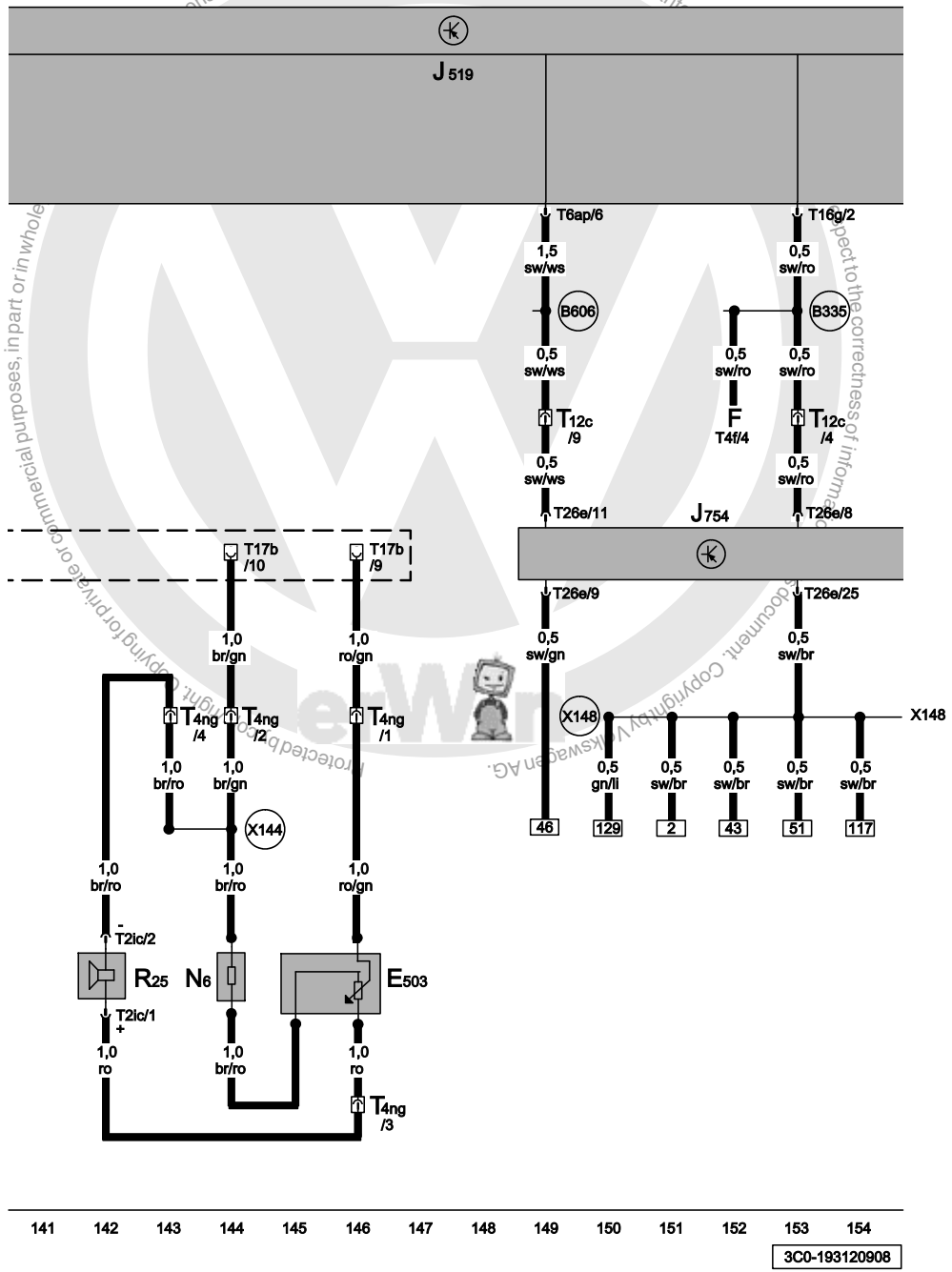


2-way radio loudspeaker volume control 1, coupling point for 2-way radio, 2-way radio speaker

E502	1-way radio loudspeaker volume control 2
J519	Onboard supply control unit
N6	Series resistor
R25	Two-way radio loudspeaker
T2ib	2-pin connector, centre console, near gearstick
T4nf	4-pin connector, on 1-way radio loudspeaker volume control 2
T17b	17-pin connector, coupling point for two-way radio in luggage compartment
(X143)	Positive connection 4 (30), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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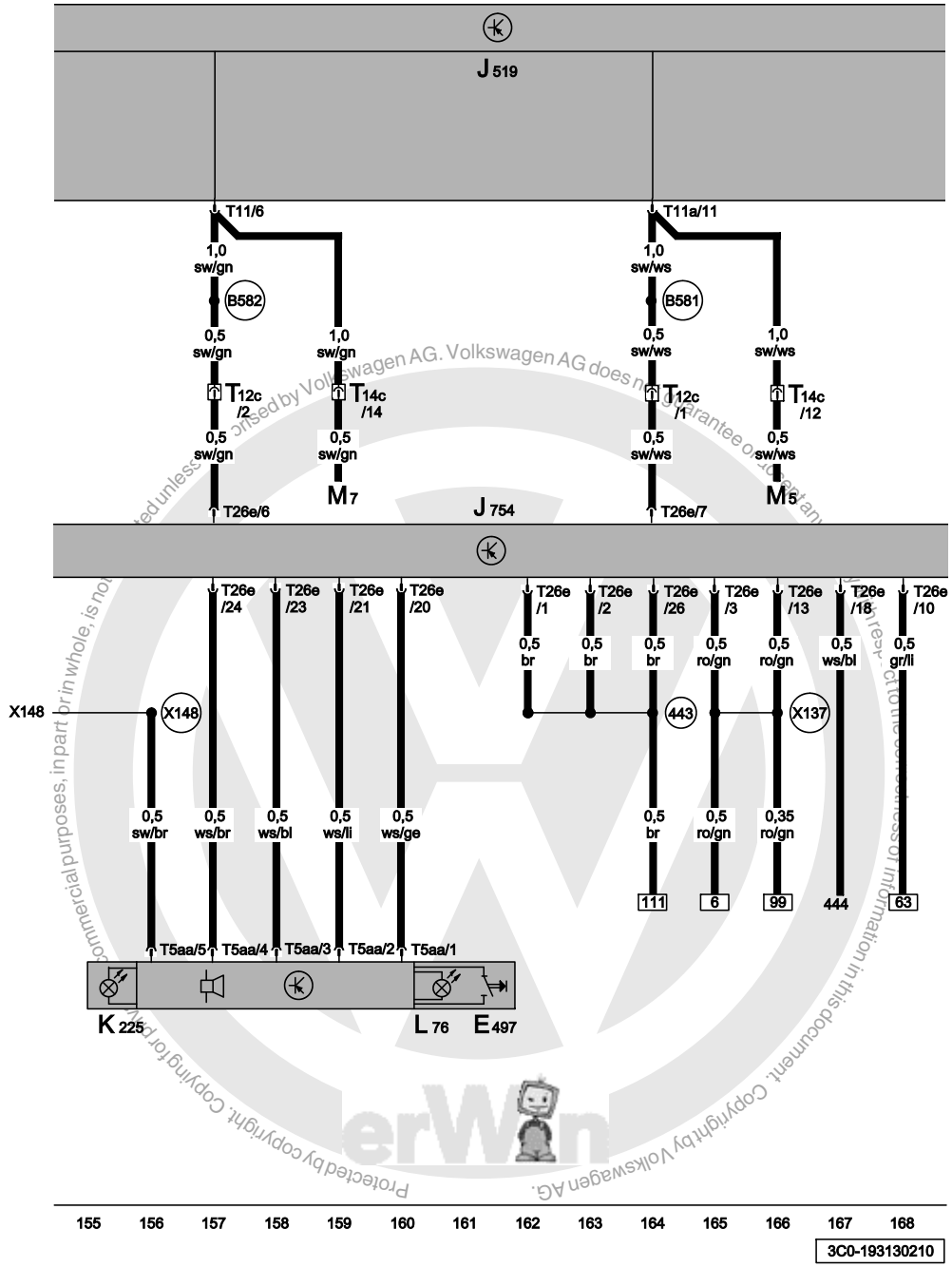


2-way radio loudspeaker volume control 2, coupling point for 2-way radio, 2-way radio speaker, onboard supply control unit, accident data memory

E503	2-way radio loudspeaker volume control 2
F	Brake light switch
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
N6	Series resistor
R25	Two-way radio loudspeaker
T2ic	2-pin connector
T4f	4-pin connector
T4ng	4-pin connector, on 2-way radio loudspeaker volume control 2
T6ap	6-pin connector, black
T12c	12-pin connector, black, coupling point, left A-pillar
T16g	16-pin connector, black
T17b	17-pin connector, coupling point for two-way radio in luggage compartment
T26e	26-pin connector
B335	Connection 1 (54), in main wiring harness
B606	Connection 2, in interior wiring harness
X144	Positive connection 5 (30), in optional equipment wiring harness
X148	Positive connection 7 (30), in optional equipment wiring harness

ws	=	white
sw	=	black
ro	=	red
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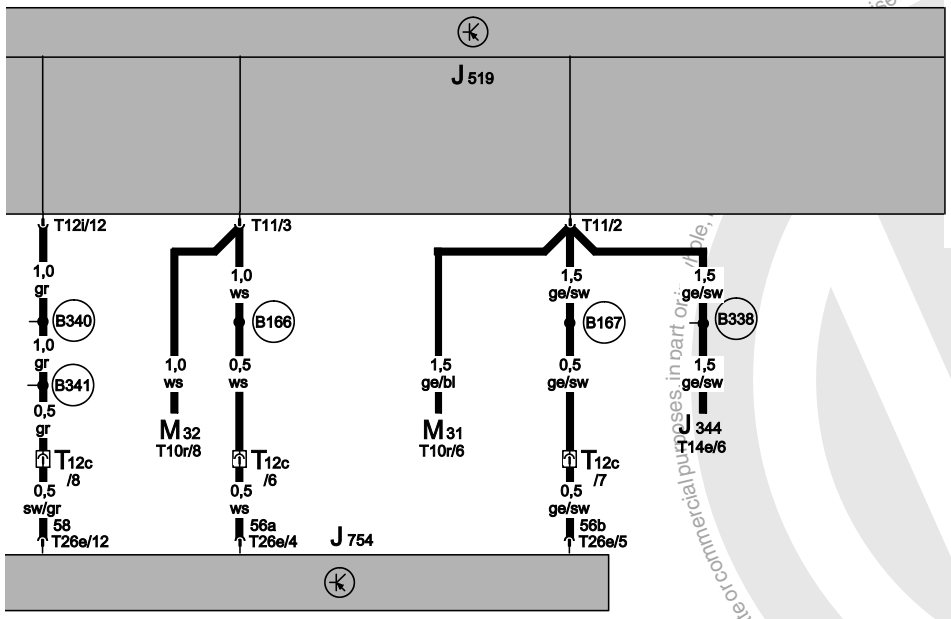


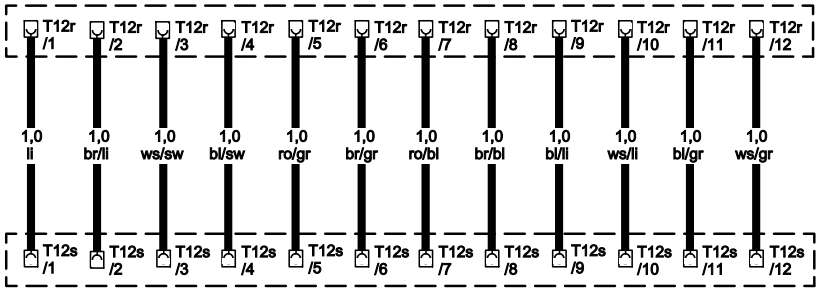
Accident data recorder, accident data recorder button, accident recorder warning lamp

E497	Accident data recorder button
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
K225	Accident recorder warning lamp
L76	Button illumination bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
T5aa	5-pin connector
T11	11-pin connector, black
T11a	11-pin connector, brown
T12c	12-pin connector, black, coupling point, left A-pillar
T14c	14-pin connector, front bumper coupling point, left
T26e	26-pin connector
443	Earth connection 4, in siren system wiring harness
B581	Positive connection (left indicator lamp), in interior wiring harness
B582	Positive connection (right indicator lamp), interior wiring harness
X137	Positive connection 2 (30a), in siren wiring harness
X148	Positive connection 7 (30), in optional equipment wiring harness
***	Wiring secured to dash panel insert

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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169 170 171 172 173 174 175 176 177 178 179 180 181 182

3C0-193140210

Accident data memory, right dipped beam bulb, right main beam bulb

J344	Right gas discharge bulb control unit
J519	Onboard supply control unit
J754	Accident data memory, under driver seat
M31	Right headlight dipped beam bulb
M32	Right headlight main beam bulb
T10r	10-pin connector, black
T11	11-pin connector, black
T12c	12-pin connector, black, coupling point, left A-pillar
T12i	12-pin connector
T12r	12-pin connector, coupling point for 2-way radio, right A-pillar
T12s	12-pin connector, coupling point for two-way radio in luggage compartment
T14e	14-pin connector, on front right headlight
T26e	26-pin connector
B166	Connection (56a), in interior wiring harness
B167	Connection (56b), in interior wiring harness
B338	Connection 1 (56), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness

ws	=	white
sw	=	black
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Driving aids for disabled persons

⇒ **With special vehicle control unit**

From May 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth points

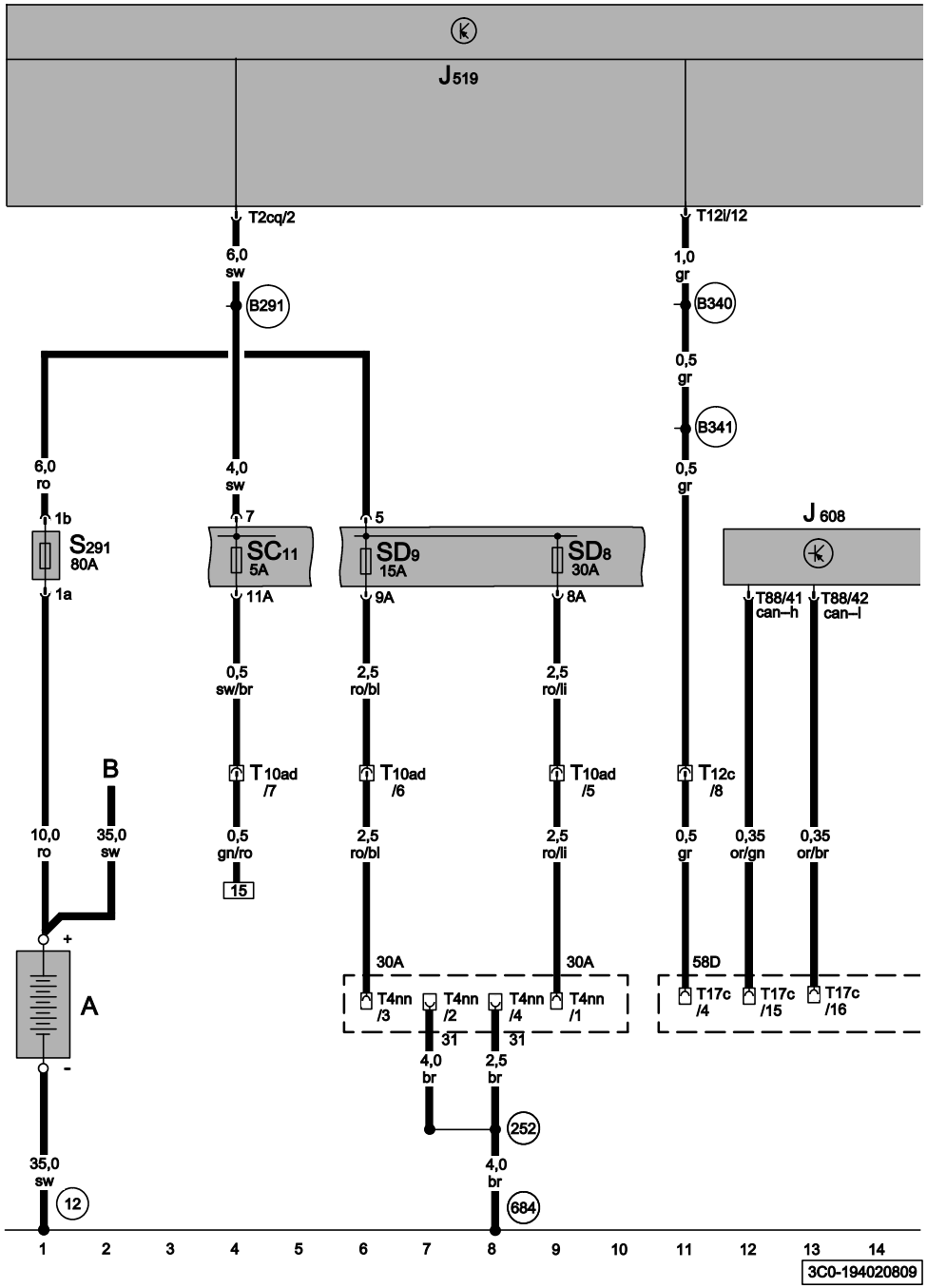
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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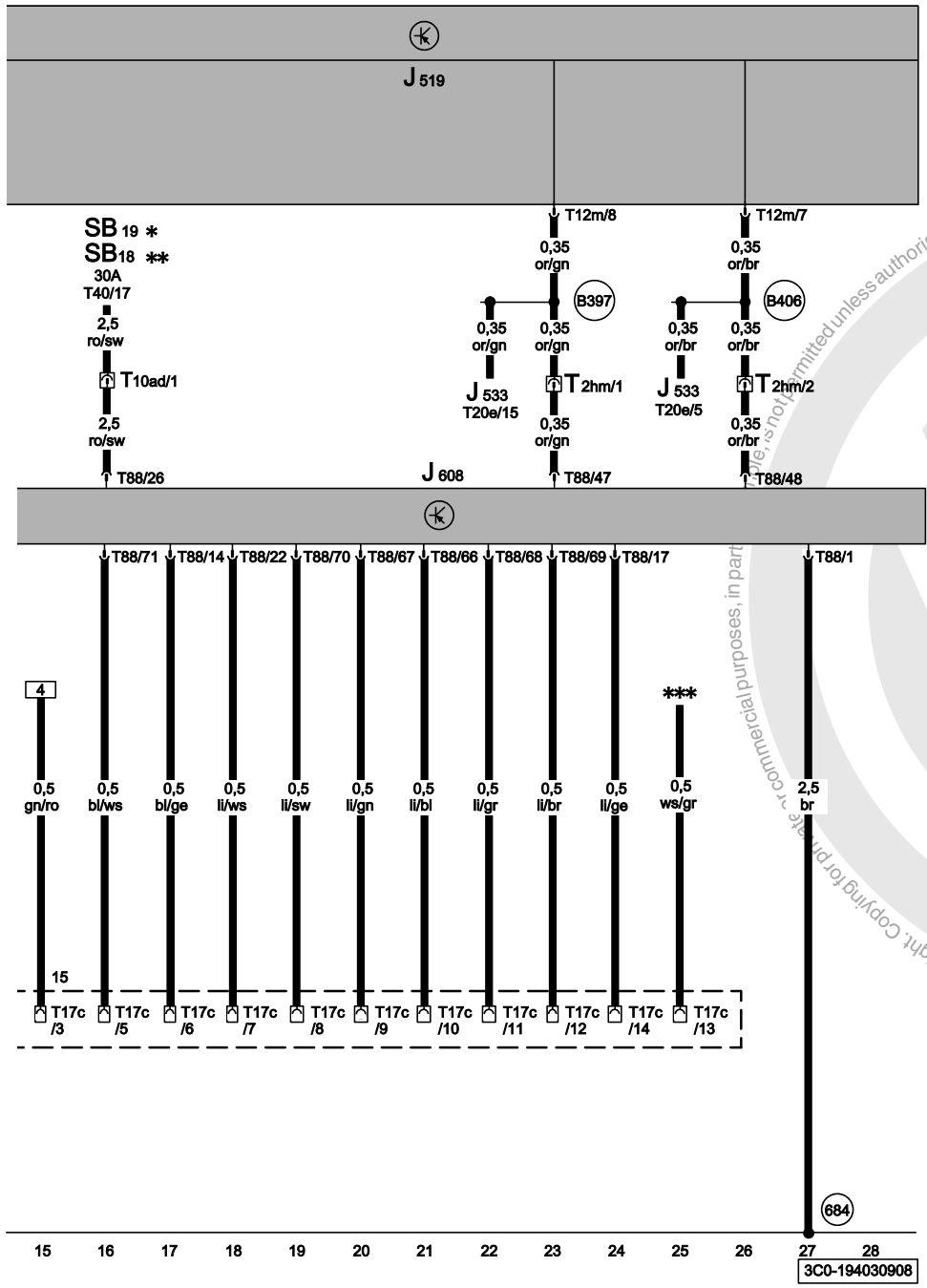


Onboard supply control unit, fuses, special vehicle control unit

A	Battery
B	Starter
J519	Onboard supply control unit
J608	Special vehicle control unit
S291	Special vehicle fuse 1
SC11	Fuse 11 on fuse holder C
SD8	Fuse 8 on fuse holder D
SD9	Fuse 9 on fuse holder D
T2cq	2-pin connector
T4nn	4-pin connector, coupling point for driving aids for disabled persons
T10ad	10-pin connector
T12c	12-pin connector, coupling point for left A-pillar
T12i	12-pin connector
T17c	17-pin connector, coupling point for driving aids
T88	88-pin connector
12	Earth point, on left in engine compartment
252	Earth connection, in optional equipment wiring harness
684	Earth point on front of left side member
B291	Connection 15 (15a), in main wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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Special vehicle control unit, onboard supply control unit, data bus diagnostic interface

J519	Onboard supply control unit
J533	Data bus diagnostic interface
J608	Special vehicle control unit
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T2hm	2-pin connector
T10ad	10-pin connector
T12m	12-pin connector
T17c	17-pin connector, coupling point for driving aids
T20e	20-pin connector
T40	40-pin connector
T88	88-pin connector
684	Earth point on front of left side member
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Wiring secured to dash panel insert

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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CAN and LIN bus network

⇒ **Powertrain, convenience, infotainment and diagnosis**

From November 2007

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

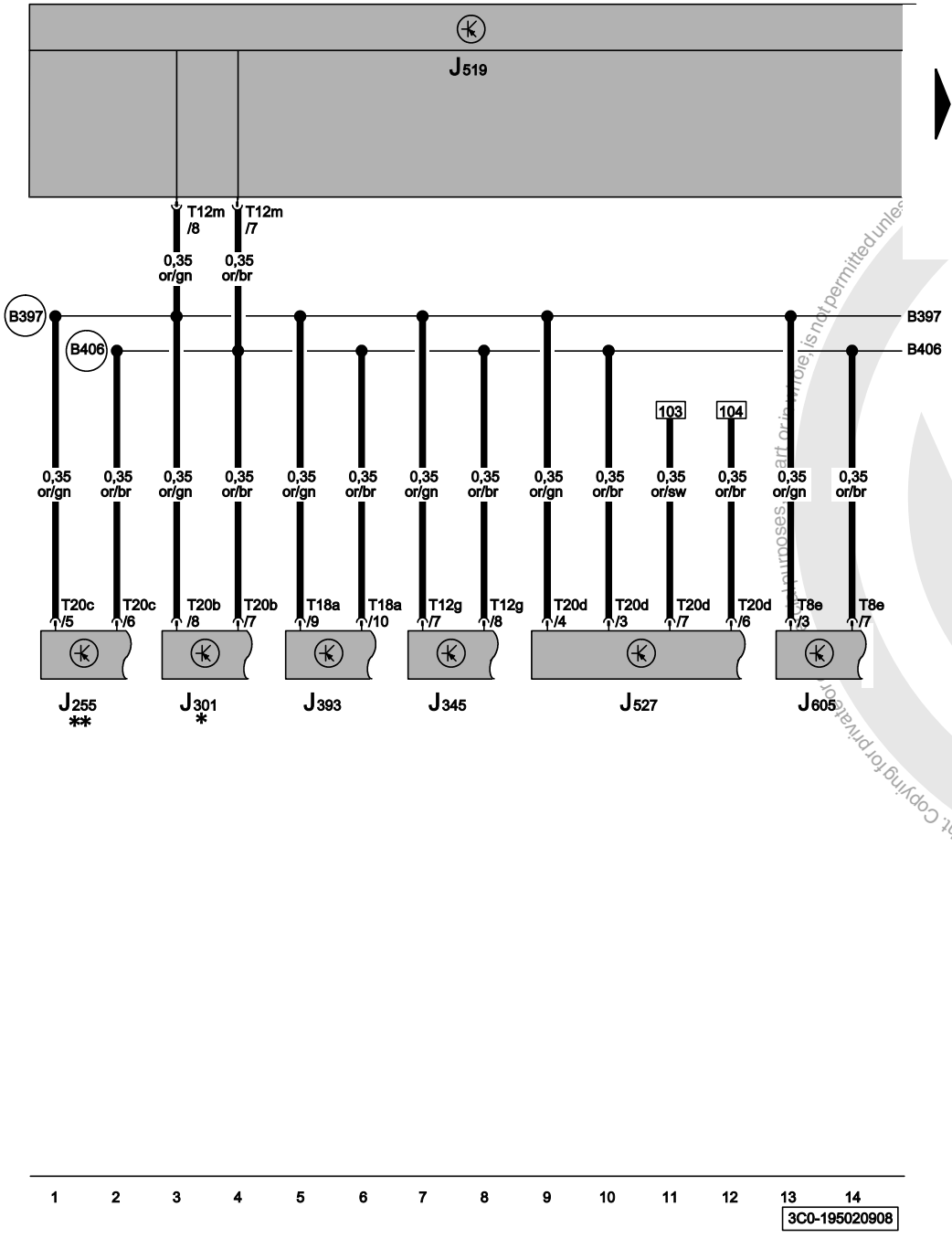
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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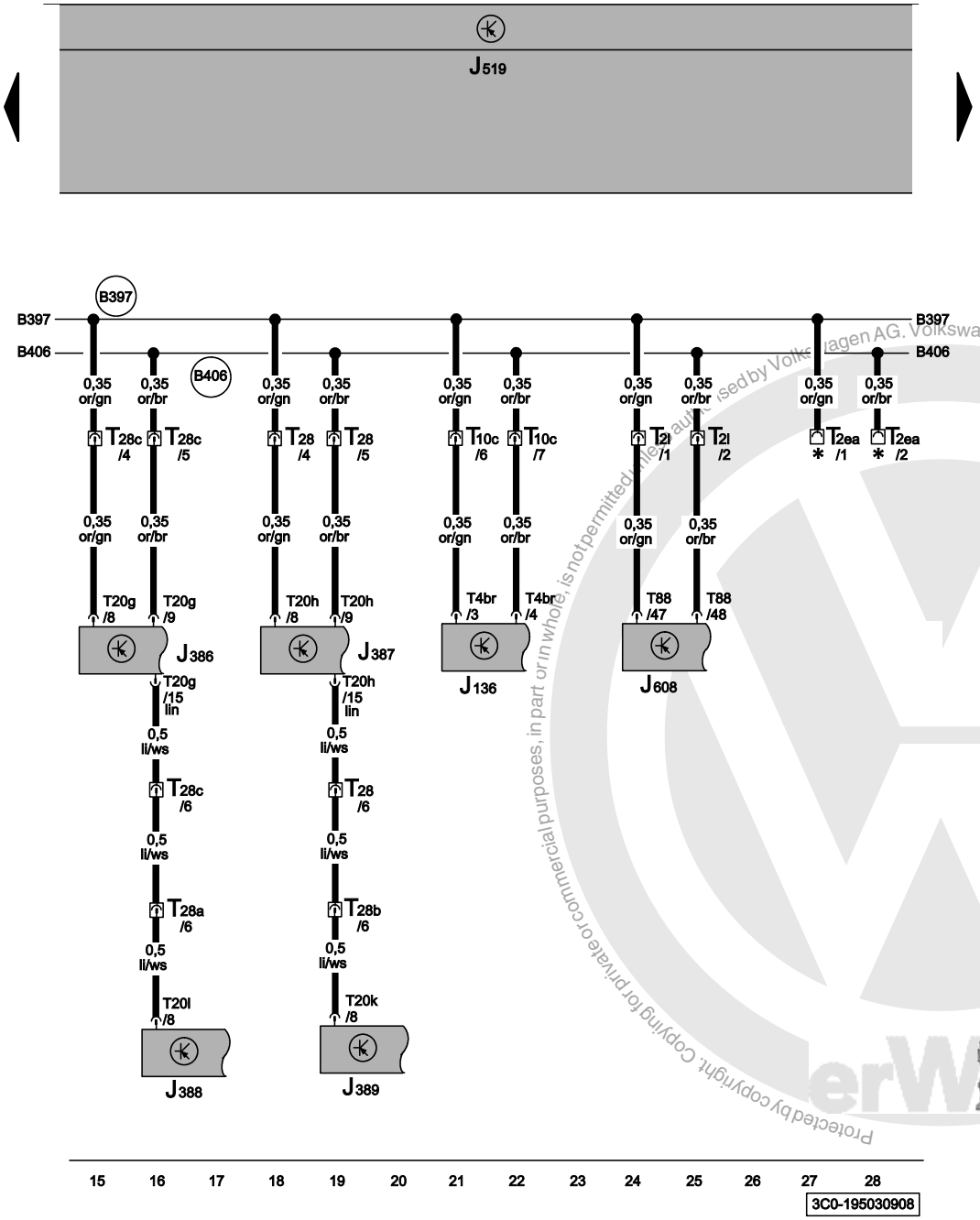


Climatronic control unit, air conditioning system control unit, trailer detector control unit, convenience system central control unit, steering column electronics control unit

J255	Climatronic control unit
J301	Air conditioning system control unit
J345	Trailer detector control unit
J393	Convenience system central control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
J605	Rear lid control unit
T8e	8-pin connector
T12g	12-pin connector, coupling point for trailer connection
T12m	12-pin connector, black
T18a	18-pin connector
T20b	20-pin connector
T20c	20-pin connector
T20d	20-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only models with air conditioning system
**	Only models with Climatronic

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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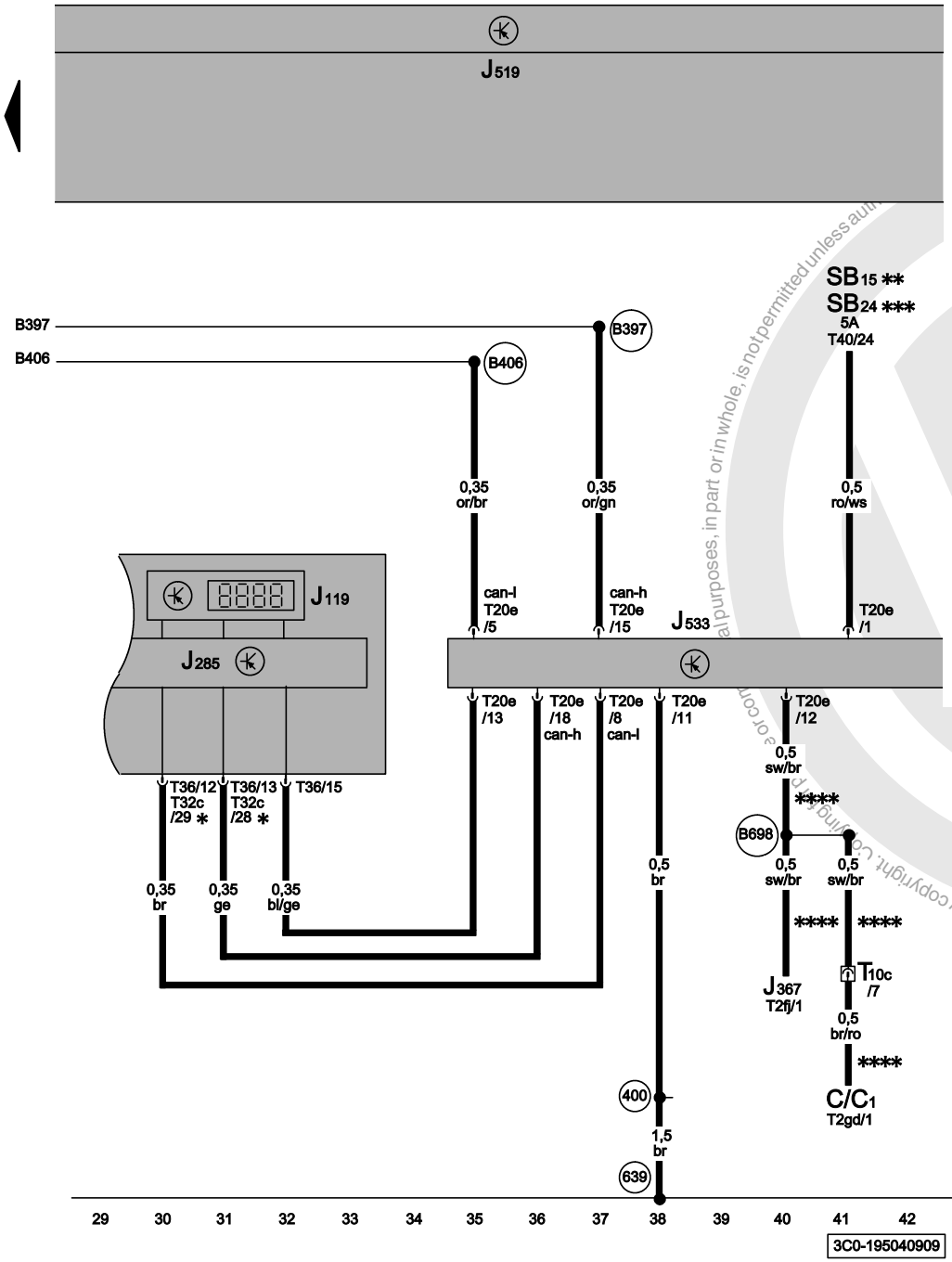


Door control unit, special vehicle control unit, seat and steering column adjustment control unit with memory

J136	Seat and steering column adjustment control unit with memory
J386	Driver door control unit
J387	Front passenger side door control unit
J388	Rear left door control unit
J389	Rear right door control unit
J519	Onboard supply control unit
J608	Special vehicle control unit
T2l	2-pin connector
T2ea	2-pin connector
T4br	4-pin connector, black
T10c	10-pin connector, coupling point driver side, under seat
T20g	20-pin connector
T20h	20-pin connector
T20k	20-pin connector
T20l	20-pin connector
T28	28-pin connector, coupling point, right A-pillar
T28a	28-pin connector, coupling point, left B-pillar
T28b	28-pin connector, coupling point, right B-pillar
T28c	28-pin connector, coupling point, left A-pillar
T88	88-pin connector
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	wire for special installation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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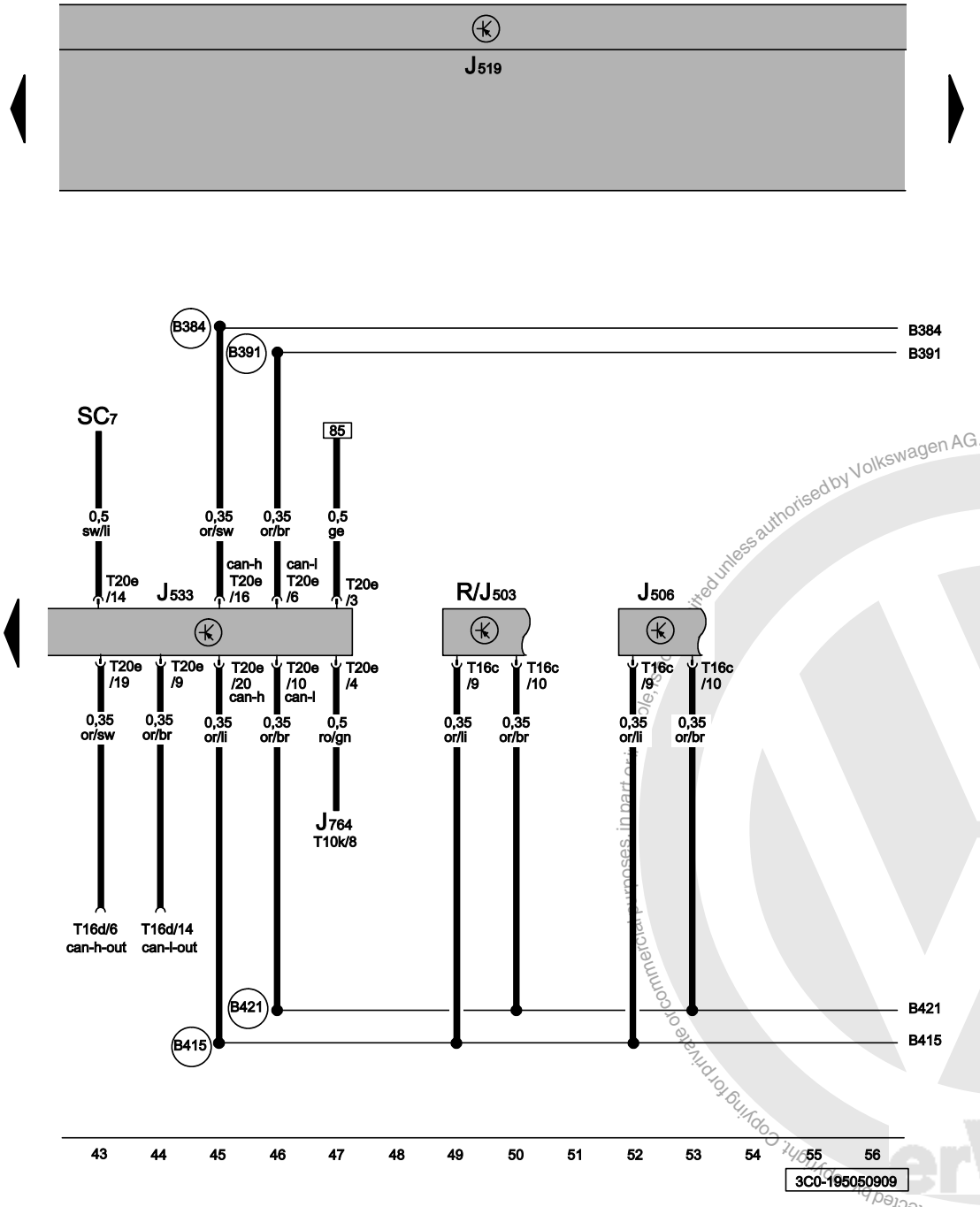


Dash panel insert, multifunction display, data bus diagnosis interface

C	Alternator
C1	Voltage regulator
J119	Multifunction display
J285	Control unit in dash panel insert
J367	Battery monitor control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
SB15	Fuse 15 on fuse holder B
SB24	Fuse 24 on fuse holder B
T2fj	2-pin connector
T2gd	2-pin connector
T4a	4-pin connector
T20e	20-pin connector
T32c	32-pin connector
T36	36-pin connector
T40	40-pin connector
400	Earth connection 35, in main wiring harness
639	Earth point, left A-pillar
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B698	Connection 3 (LIN bus), in main wiring harness
*	Applicable from November 2008
**	Only models with E-box low
***	Only models with E-box high
****	Only models with stop/start system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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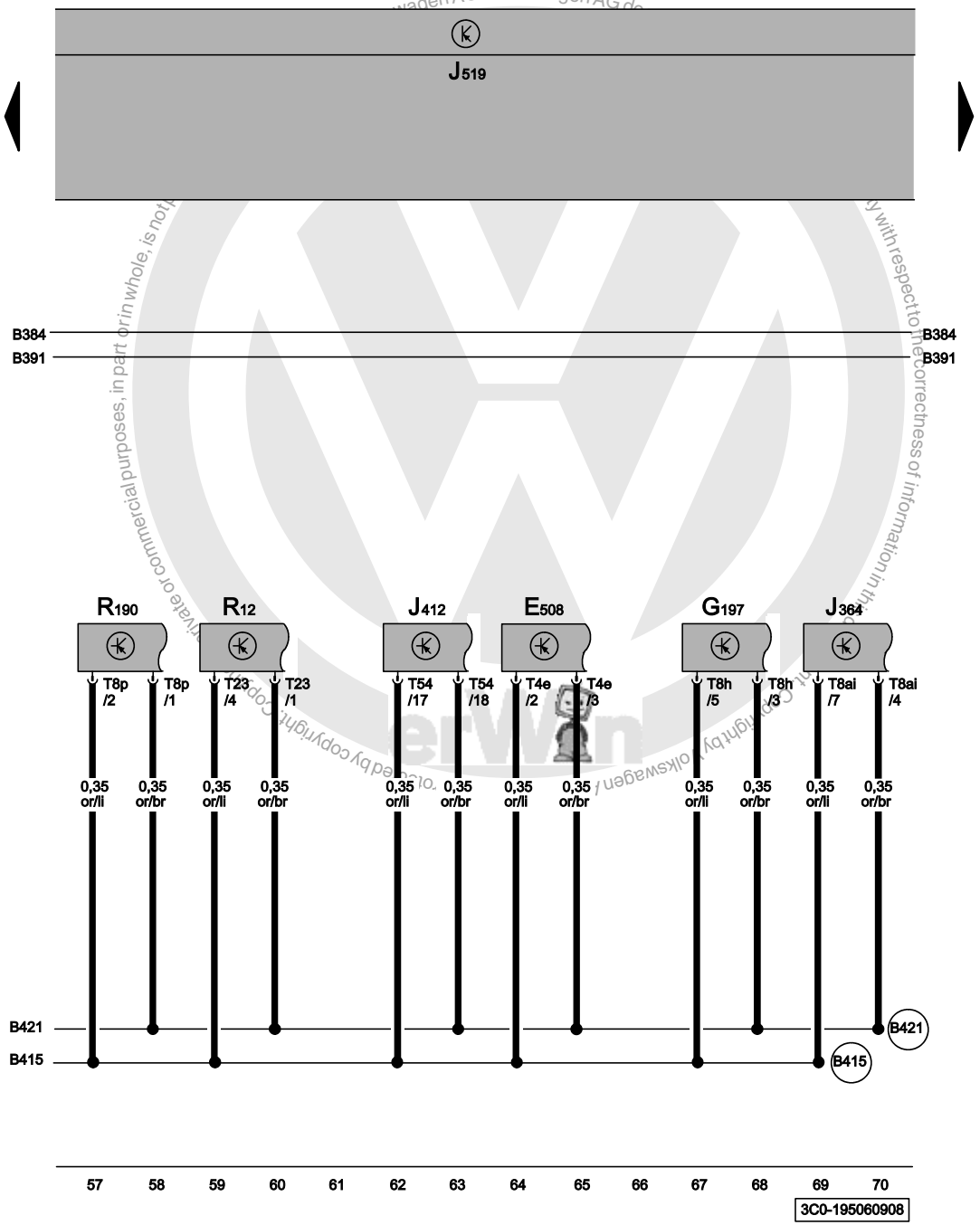


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Data bus diagnostic interface, control unit with display for radio and navigation, electronic steering column lock control unit, self-diagnosis connection

J503	Control unit with display for radio and navigation
J506	Control unit with display for TV, radio, navigation system
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J764	Electronic steering column lock control unit
R	Radio
SC7	Fuse 7 on fuse holder C
T10k	10-pin connector
T16c	16-pin connector
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

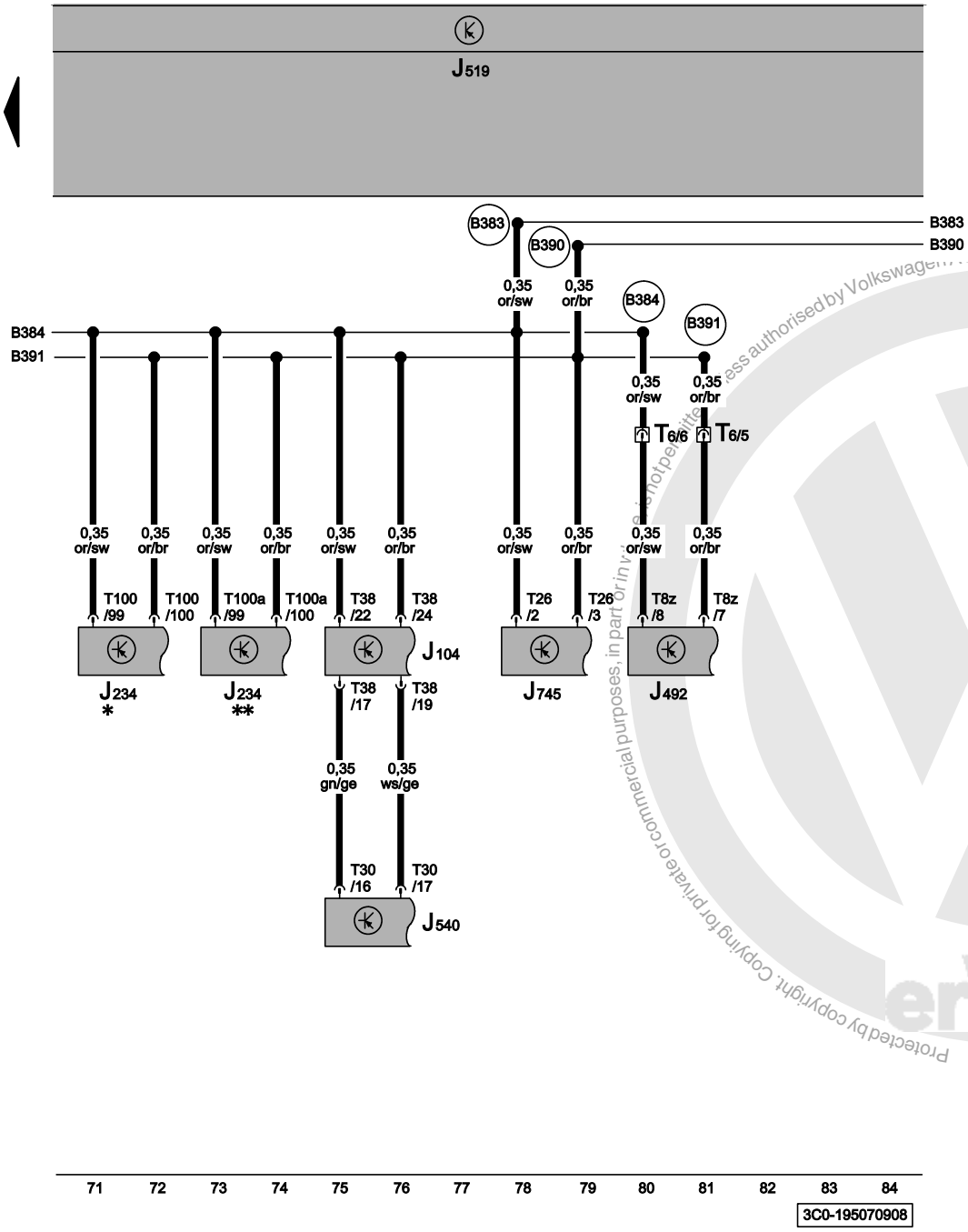
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Magnetic field sender for compass, mobile telephone operating electronics control unit, satellite digital radio tuner, auxiliary heater control unit, operating unit for preparation for mobile telephone, amplifier

E508	Operating unit for preparation for mobile telephone
G197	Magnetic field sender for compass
J364	Auxiliary heater control unit
J412	Control unit for mobile telephone operating electronics
J519	Onboard supply control unit
R12	Amplifier
R190	Satellite digital radio tuner
T4e	4-pin connector
T8h	8-pin connector
T8p	8-pin connector
T8ai	8-pin connector
T23	23-pin connector
T54	54-pin connector
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

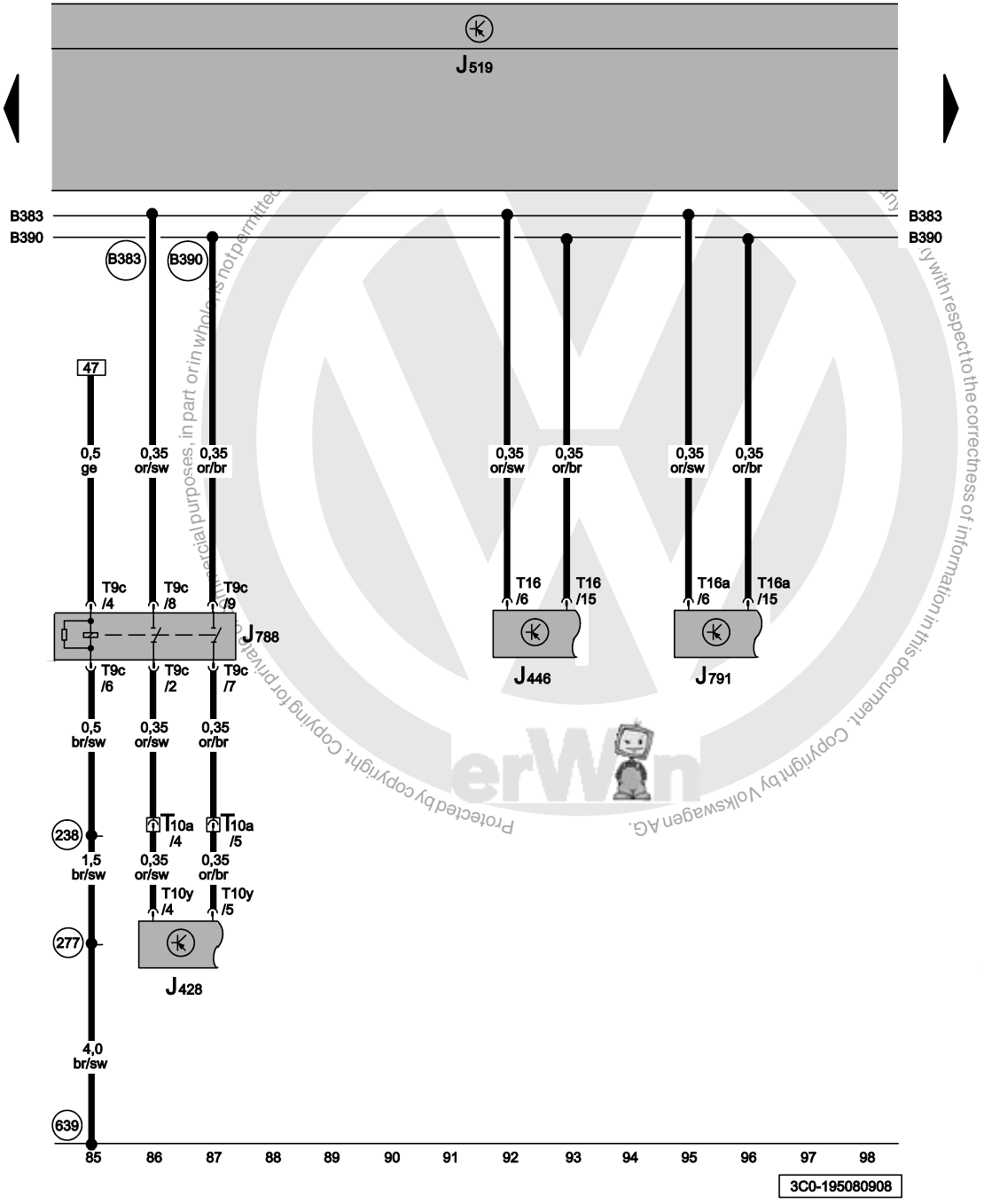


ABS control unit, airbag control unit, cornering light and headlight range control unit, all-wheel drive control unit, control unit for electromechanical parking brake

J104	ABS control unit
J234	Airbag control unit
J492	All-wheel drive control unit
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J745	Control unit for cornering light and headlight range control, behind glove compartment
T6	6-pin connector, black
T8z	8-pin connector
T26	26-pin connector
T30	30-pin connector
T38	38-pin connector
T100	100-pin connector
T100a	100-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Only models with 12 channel airbag control unit
**	Only models with 16 channel airbag control unit

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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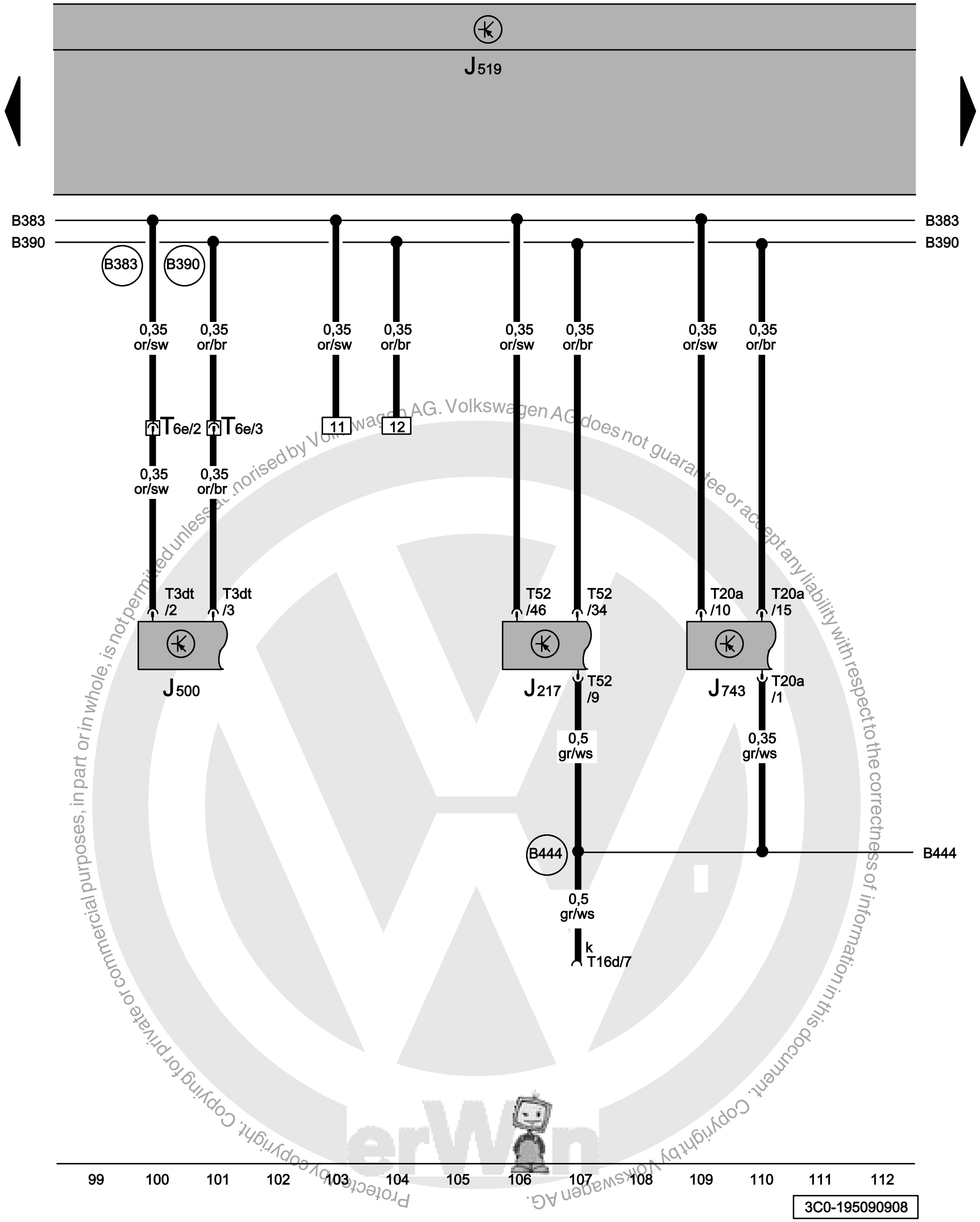


Adaptive cruise control unit, parking aid control unit, isolation relay for powertrain CAN bus, park assist steering control unit

J428	Adaptive cruise control unit
J446	Parking aid control unit
J519	Onboard supply control unit
J788	Isolation relay for powertrain CAN bus
J791	Control unit for park assist steering
T9c	9-pin connector
T10a	10-pin connector, black
T10y	10-pin connector
T16	16-pin connector
T16a	16-pin connector
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
639	Earth point, left A-pillar
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

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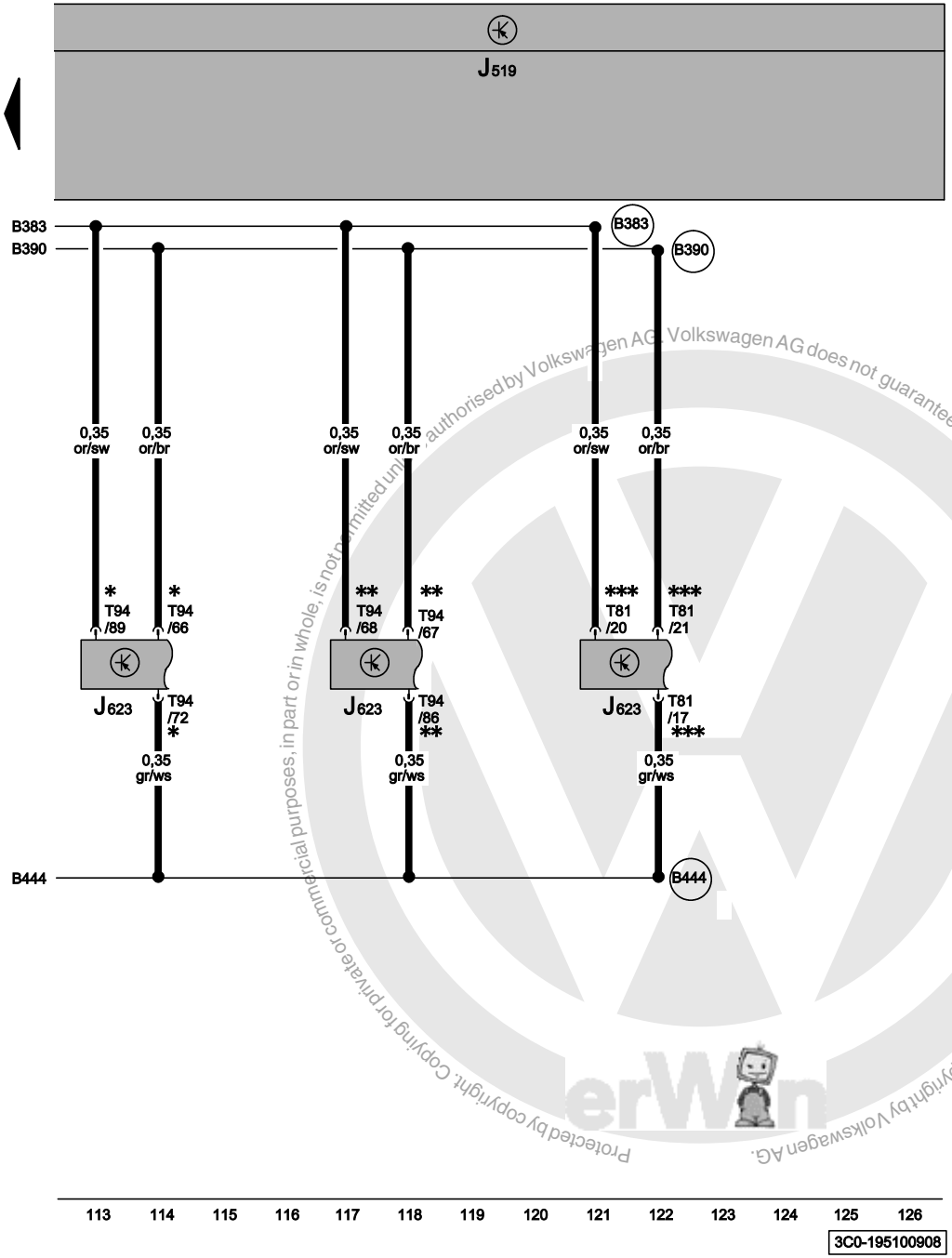


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Automatic gearbox control unit, power steering control unit, mechatronic unit for dual clutch gearbox, self-diagnosis connection

J217	Automatic gearbox control unit
J500	Power steering control unit
J519	Onboard supply control unit
J743	Mechatronics for dual clutch gearbox
T3dt	3-pin connector
T6e	6-pin connector
T16d	16-pin connector, self-diagnosis connection
T20a	20-pin connector
T52	52-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



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Engine control unit

J519	Onboard supply control unit
J623	Engine control unit
T81	81-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B444	Connection 1 (diagnosis), in main wiring harness
*	Only models with a diesel engine
**	Only models with a petrol engine
***	Only models with engine codes BSE, BSF

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Special signal system DBS 3000

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

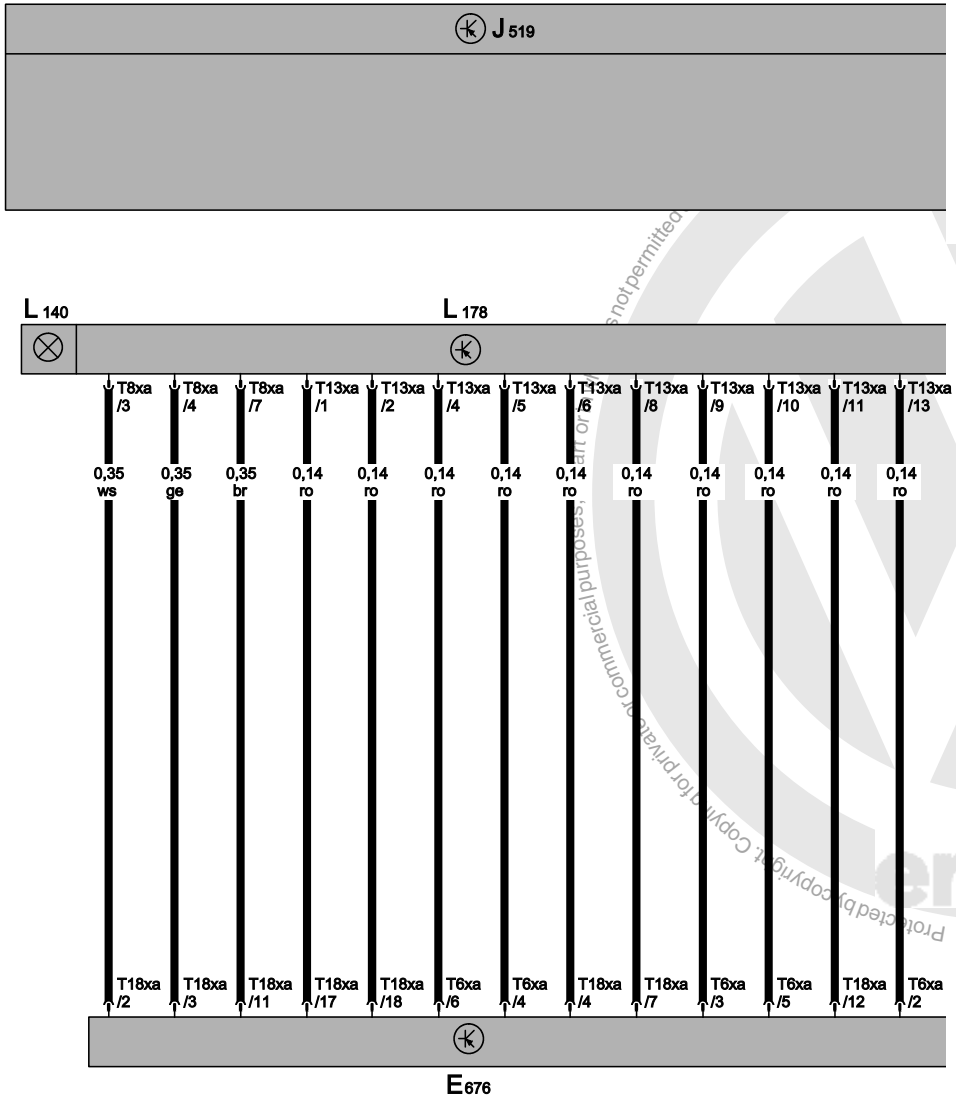
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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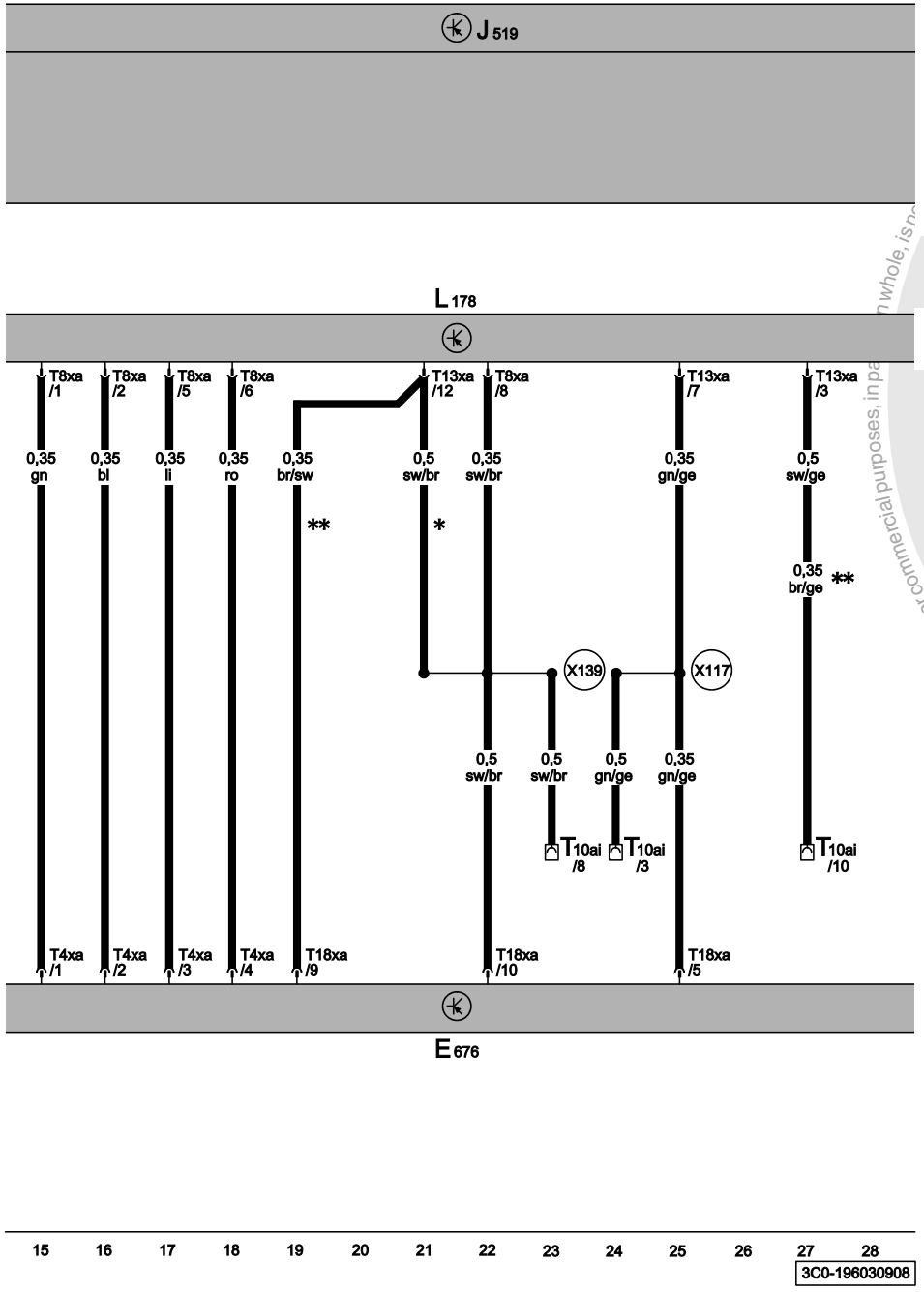


Special signal system operating unit, blue flashing light 1, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L140	Flashing light 1, blue
L178	Special signal system with light bar and lettering
T6xa	6-pin connector
T8xa	8-pin connector
T13xa	13-pin connector
T18xa	18-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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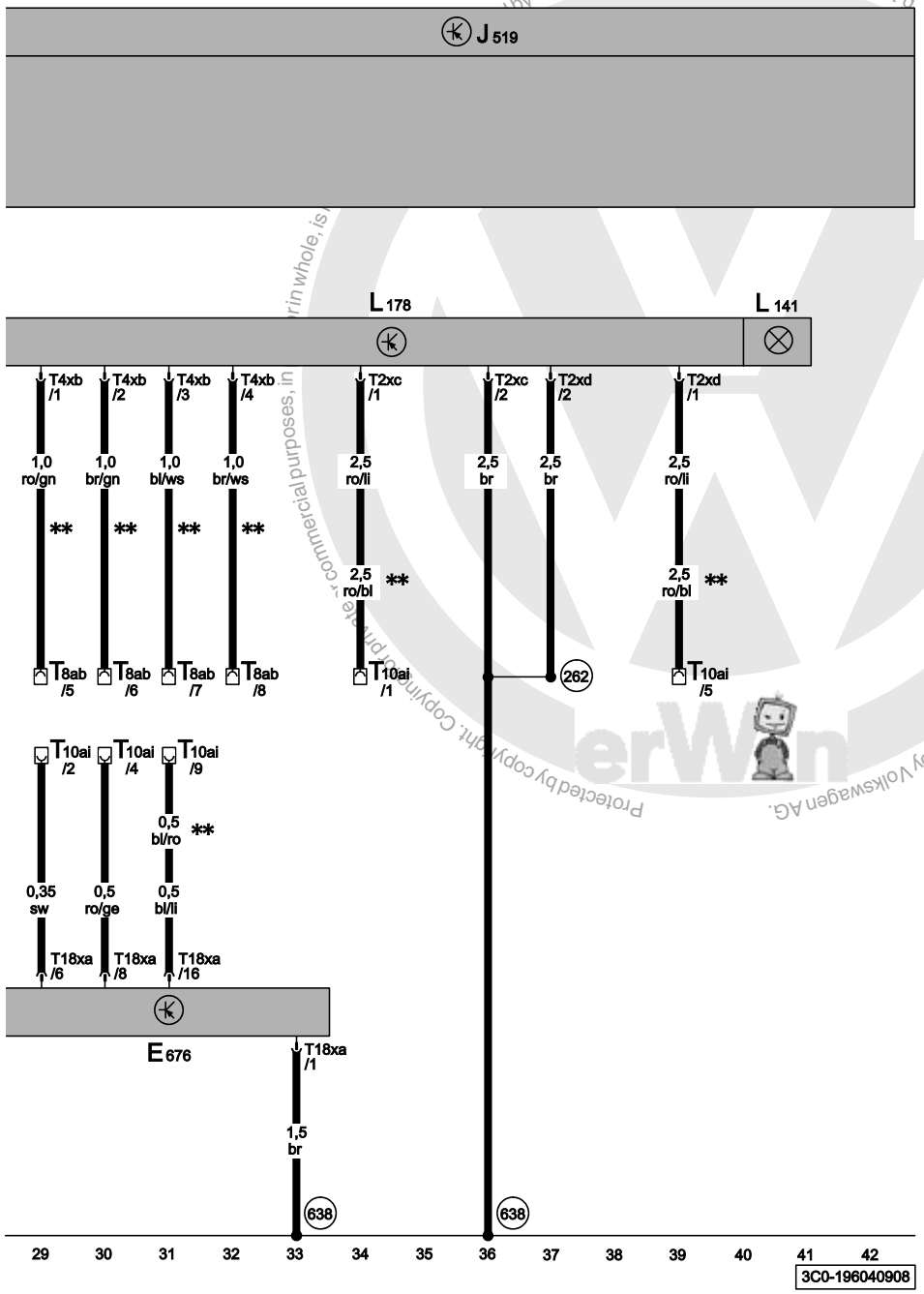


Special signal system operating unit, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L178	Special signal system with light bar and lettering
T4xa	4-pin connector
T8xa	8-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T13xa	13-pin connector
T18xa	18-pin connector
X117	Connection (alarm switch), in optional equipment wiring harness
X139	Positive connection 1 (15a), in siren wiring harness
*	Only models to April 2007
**	Only models from May 2007

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Special signal system operating unit, blue flashing light 2, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L141	Flashing light 2, blue
L178	Special signal system with light bar and lettering
T2xc	2-pin connector
T2xd	2-pin connector
T4xb	4-pin connector
T8ab	8-pin connector, special signals coupling point, right A-pillar
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T18xa	18-pin connector
(262)	Earth connection, in siren wiring harness
(638)	Earth point, on right A-pillar
**	Only models from May 2007

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Special signal system RTK 6

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

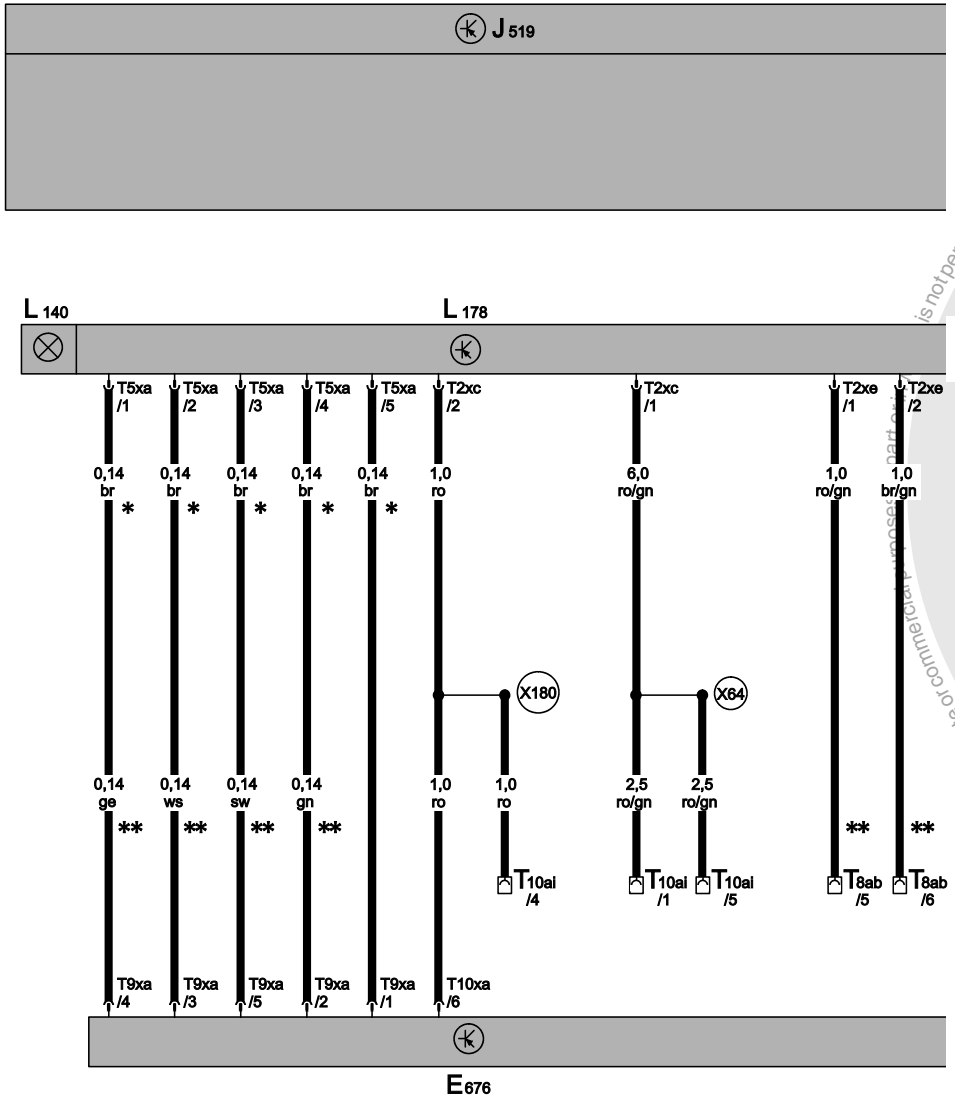
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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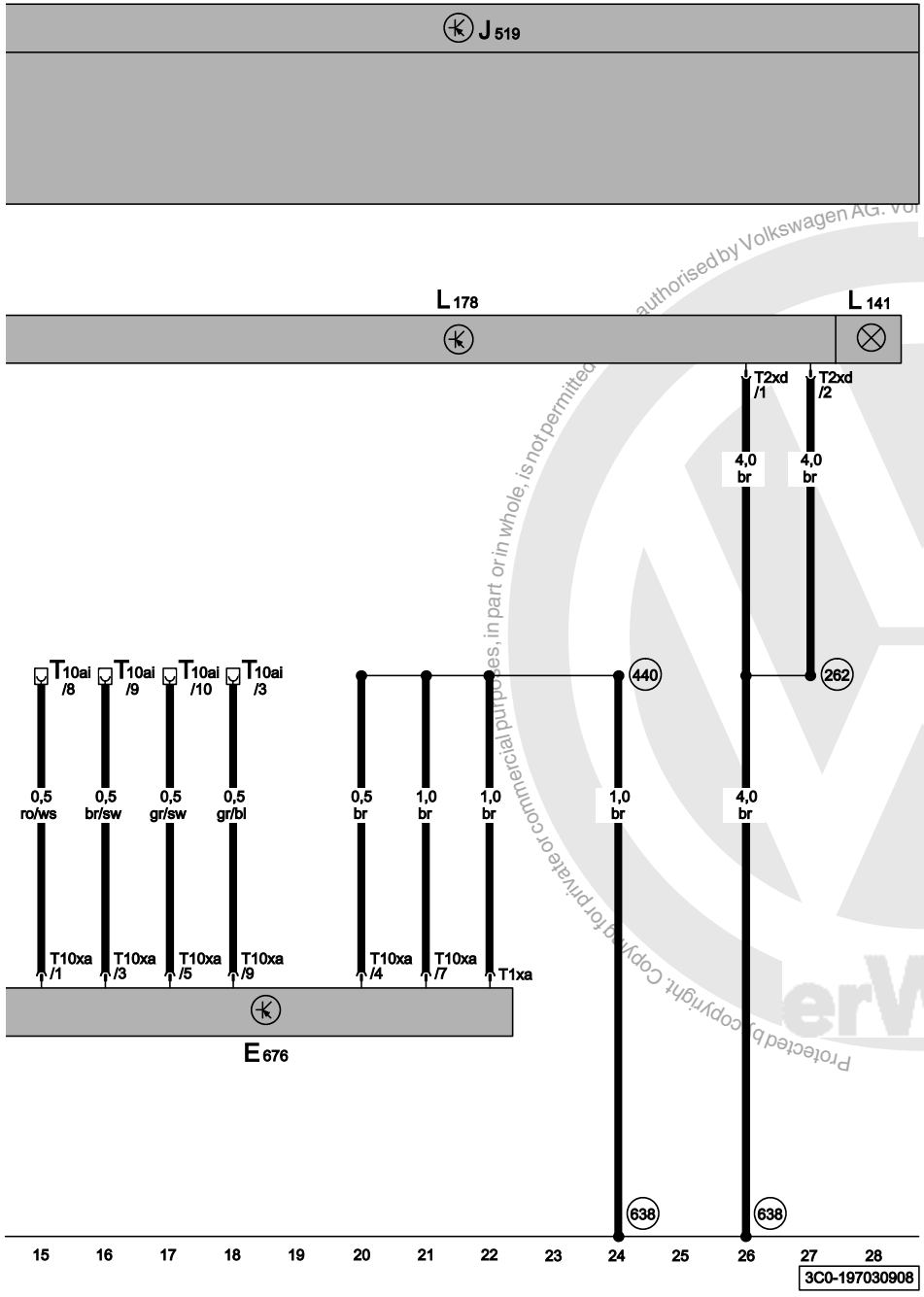


Special signal system operating unit, blue flashing light 1, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L140	Flashing light 1, blue
L178	Special signal system with light bar and lettering
T2xc	2-pin connector
T2xe	2-pin connector
T5xa	5-pin connector
T8ab	8-pin connector, special signals coupling point, right A-pillar
T9xa	9-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T10xa	10-pin connector
X64	Positive connection (30a), in wiring harness for tone sequence system
X180	Positive connection 5 (30a), in siren wiring harness
*	Only models to April 2007
**	Only models from May 2007

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Special signal system operating unit, blue flashing light 2, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L141	Flashing light 2, blue
L178	Special signal system with light bar and lettering
T1xa	Single connector
T2xd	2-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T10xa	10-pin connector
262	Earth connection, in siren wiring harness
440	Earth connection 1, in siren system wiring harness
638	Earth point, on right A-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
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Special signal system RTK 6 with video safety surveillance (in-car video surveillance)

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

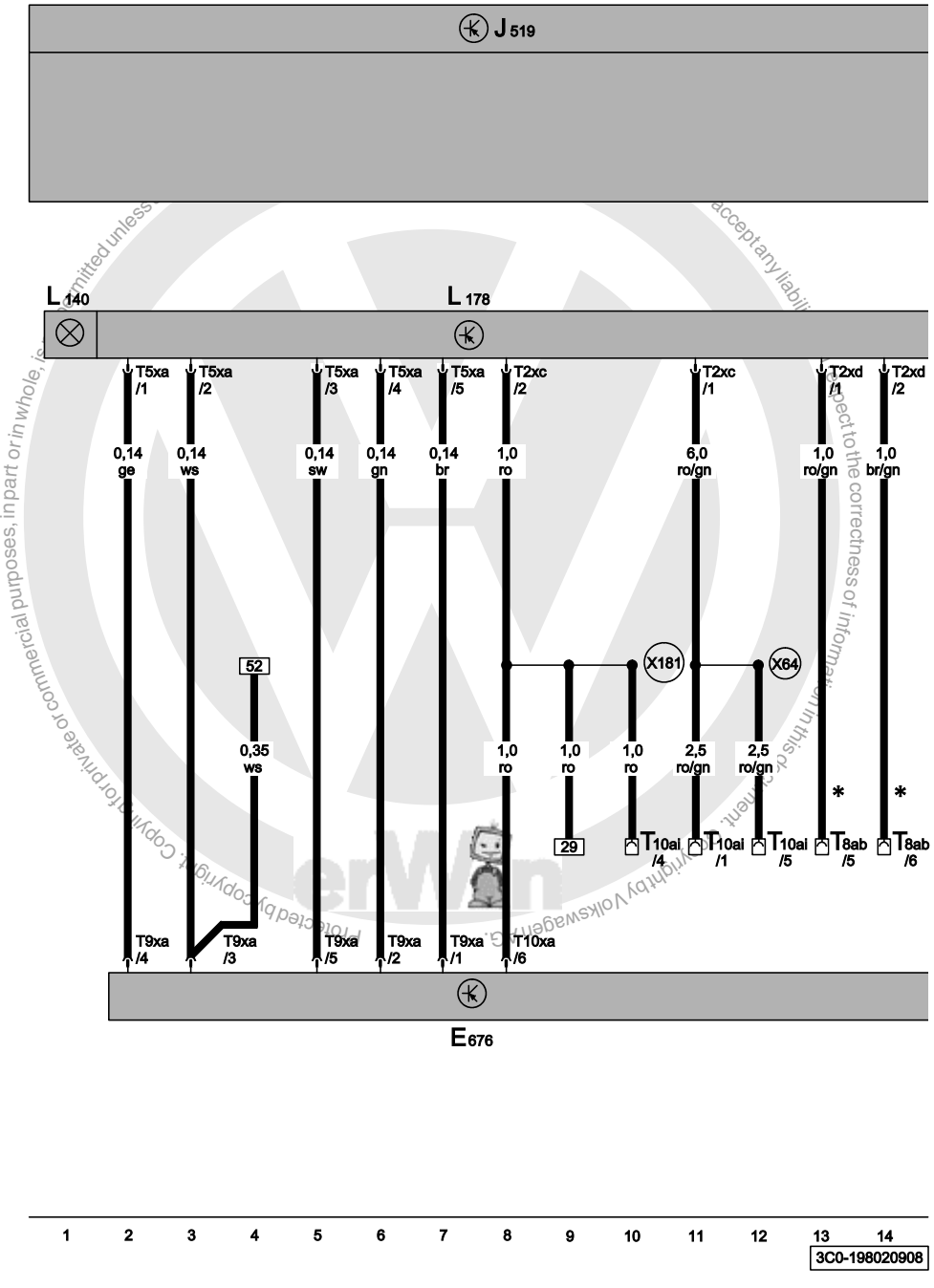
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For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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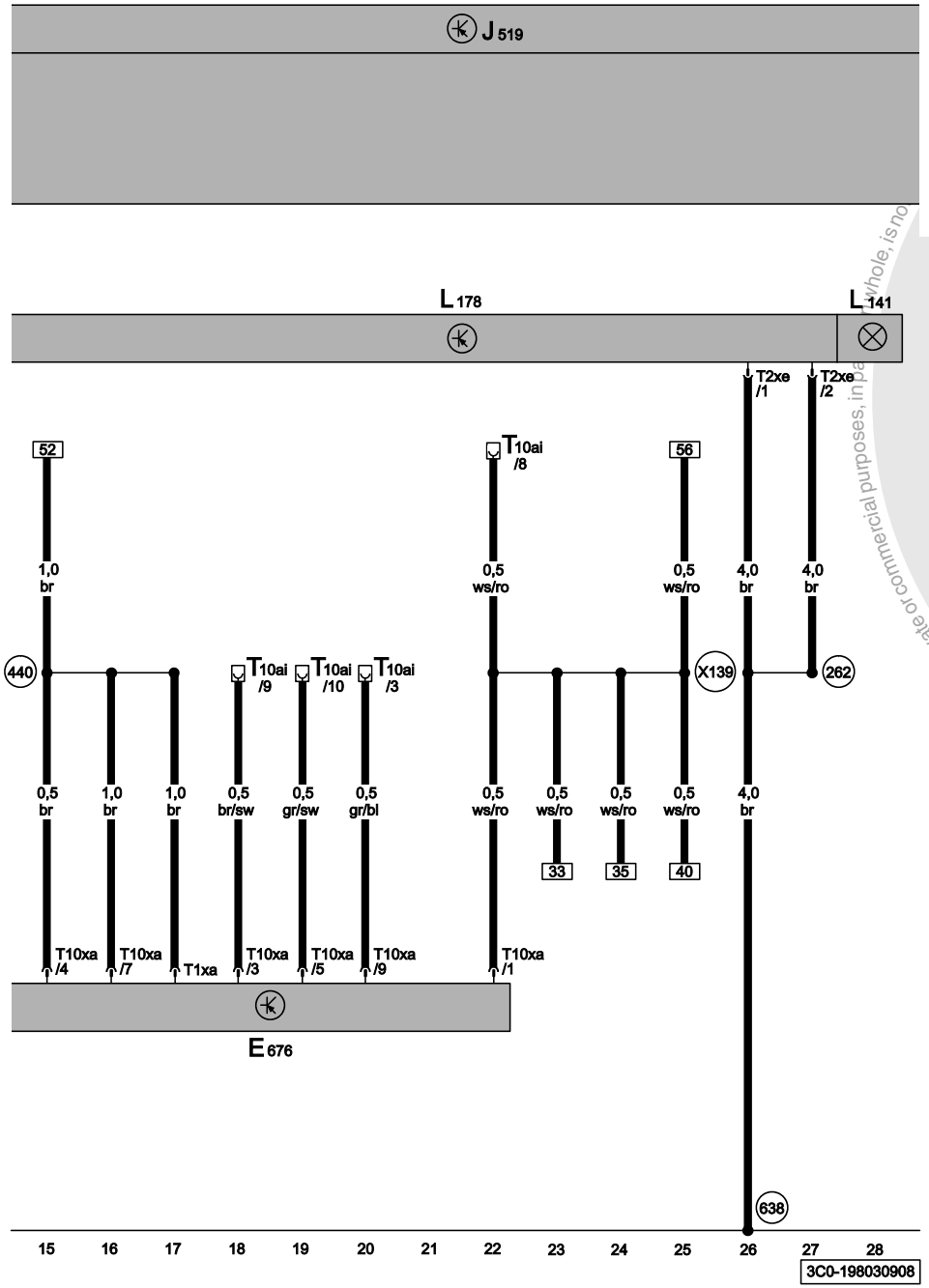


Special signal system operating unit, blue flashing light 1, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L140	Flashing light 1, blue
L178	Special signal system with light bar and lettering
T2xc	2-pin connector
T2xd	2-pin connector
T5xa	5-pin connector
T8ab	8-pin connector, special signals coupling point, right A-pillar
T9xa	9-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T10xa	10-pin connector
X64	Positive connection (30a), in wiring harness for tone sequence system
X181	Positive connection 6 (30a), in siren wiring harness
*	Only models from May 2007

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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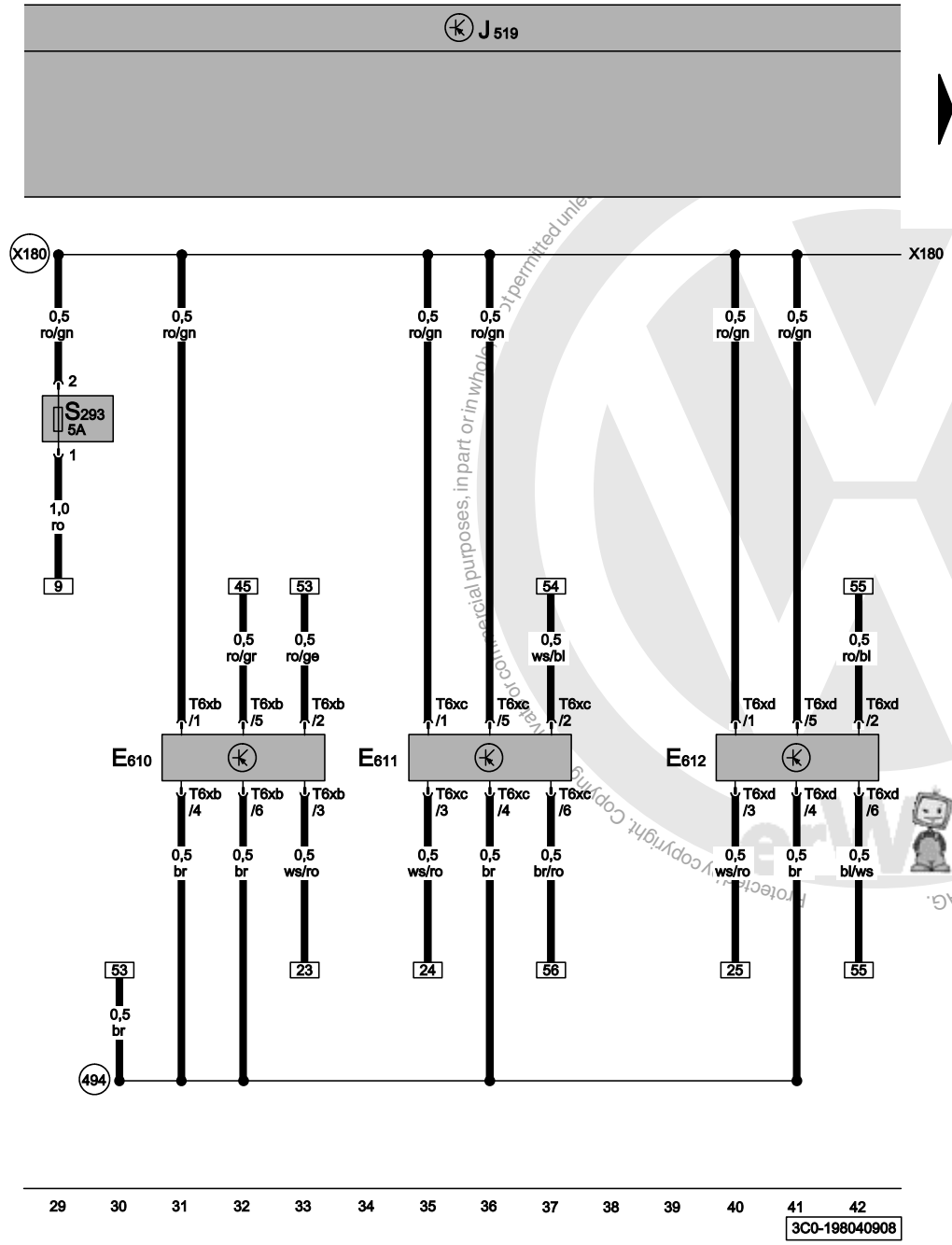


Special signal system operating unit, blue flashing light 2, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L141	Flashing light 2, blue
L178	Special signal system with light bar and lettering
T1xa	Single connector
T2xe	2-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T10xa	10-pin connector
262	Earth connection, in siren wiring harness
440	Earth connection 1, in siren system wiring harness
638	Earth point, on right A-pillar
X139	Positive connection 1 (15a), in siren wiring harness

ws	=	white
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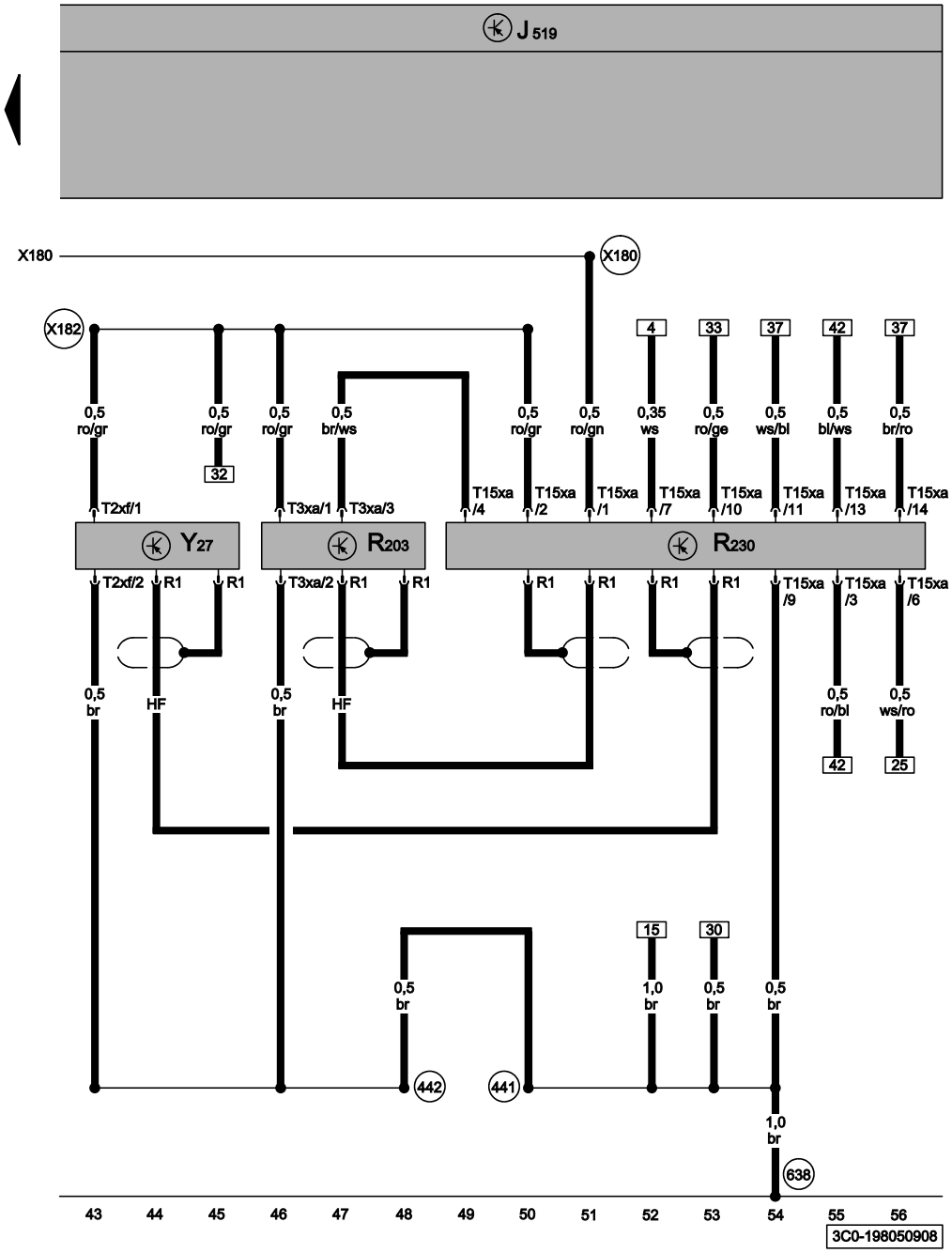


Button 1 for in-car video surveillance, button 2 for in-car video surveillance, button 3 for in-car video surveillance, special vehicle fuse 3

E610	Button 1 for in-car video surveillance
E611	Button 2 for in-car video surveillance
E612	Button 3 for in-car video surveillance
J519	Onboard supply control unit
S293	Special vehicle fuse 3
T6xb	6-pin connector
T6xc	6-pin connector
T6xd	6-pin connector
494	Earth connection 7, in siren system wiring harness
X180	Positive connection 5 (30a), in siren wiring harness

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Camera for in-car video surveillance, data storage unit for in-car video surveillance, display unit for in-car video surveillance

J519	Onboard supply control unit
R1	Aerial connection
R203	Camera for in-car video surveillance
R230	Data storage unit for in-car video surveillance
T2xf	2-pin connector
T3xa	3-pin connector
T15xa	15-pin connector
Y27	Display unit for in-car video surveillance
441	Earth connection 2, in siren system wiring harness
442	Earth connection 3, in siren system wiring harness
638	Earth point, on right A-pillar
X180	Positive connection 5 (30a), in siren wiring harness
X182	Connection (87), in siren wiring harness

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rs	=	pink

Special signal system RTK 5

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

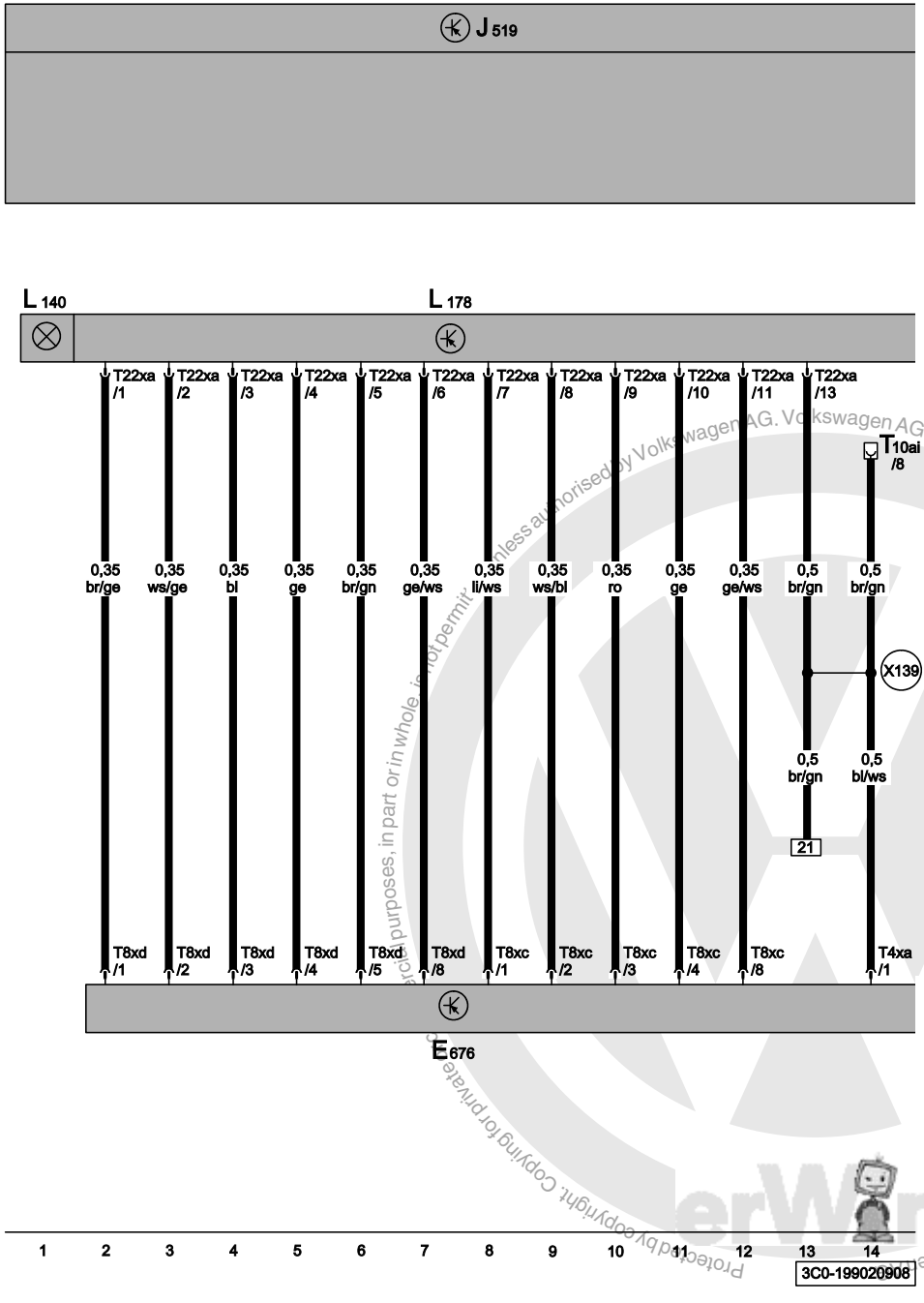
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For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Special signal system operating unit, blue flashing light 1, special signal system with light bar and lettering

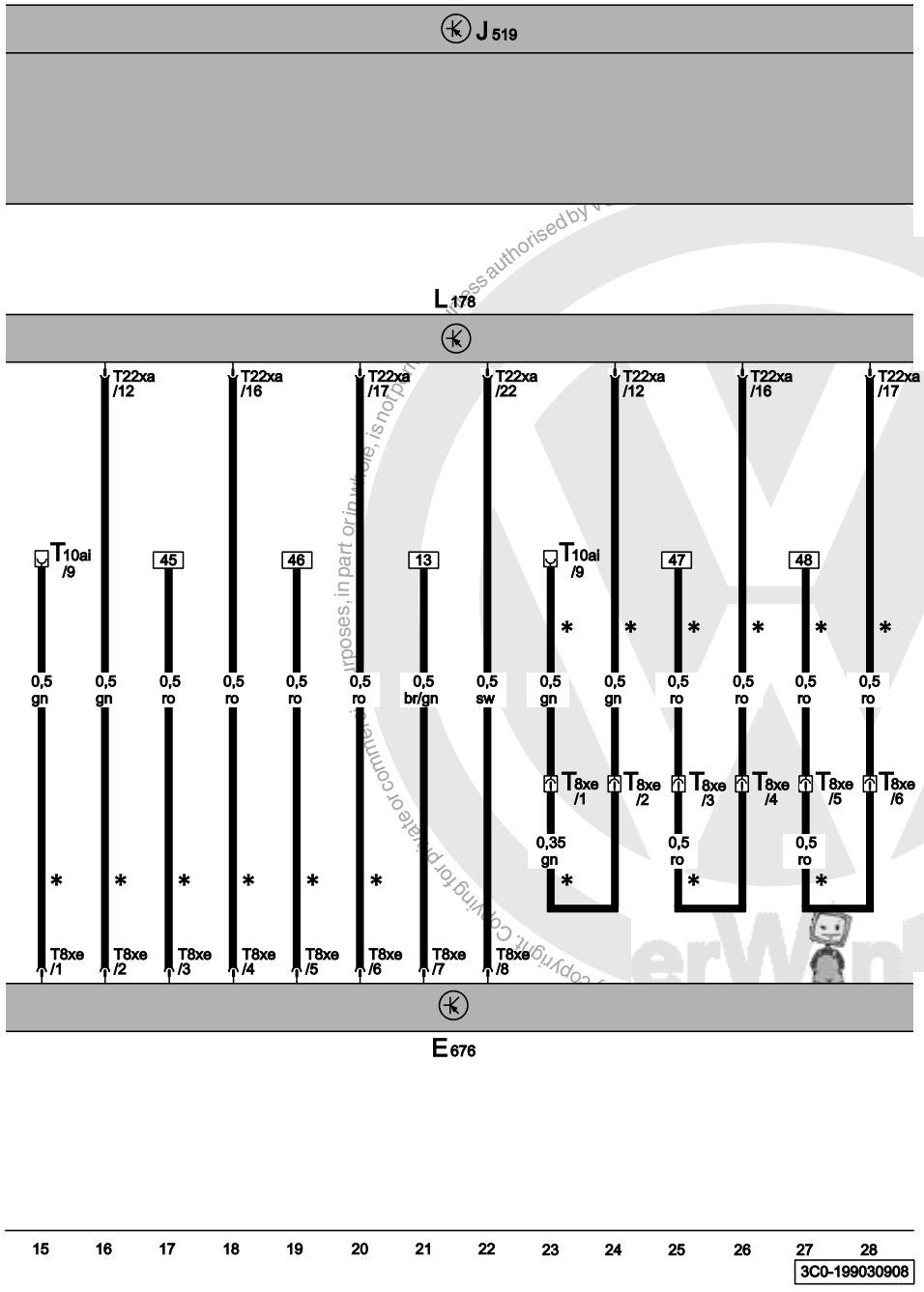
E676	Special signal system operating unit
J519	Onboard supply control unit
L140	Flashing light 1, blue
L178	Special signal system with light bar and lettering
T4xa	4-pin connector
T8xc	8-pin connector
T8xd	8-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T22xa	22-pin connector
X139	Positive connection 1 (15a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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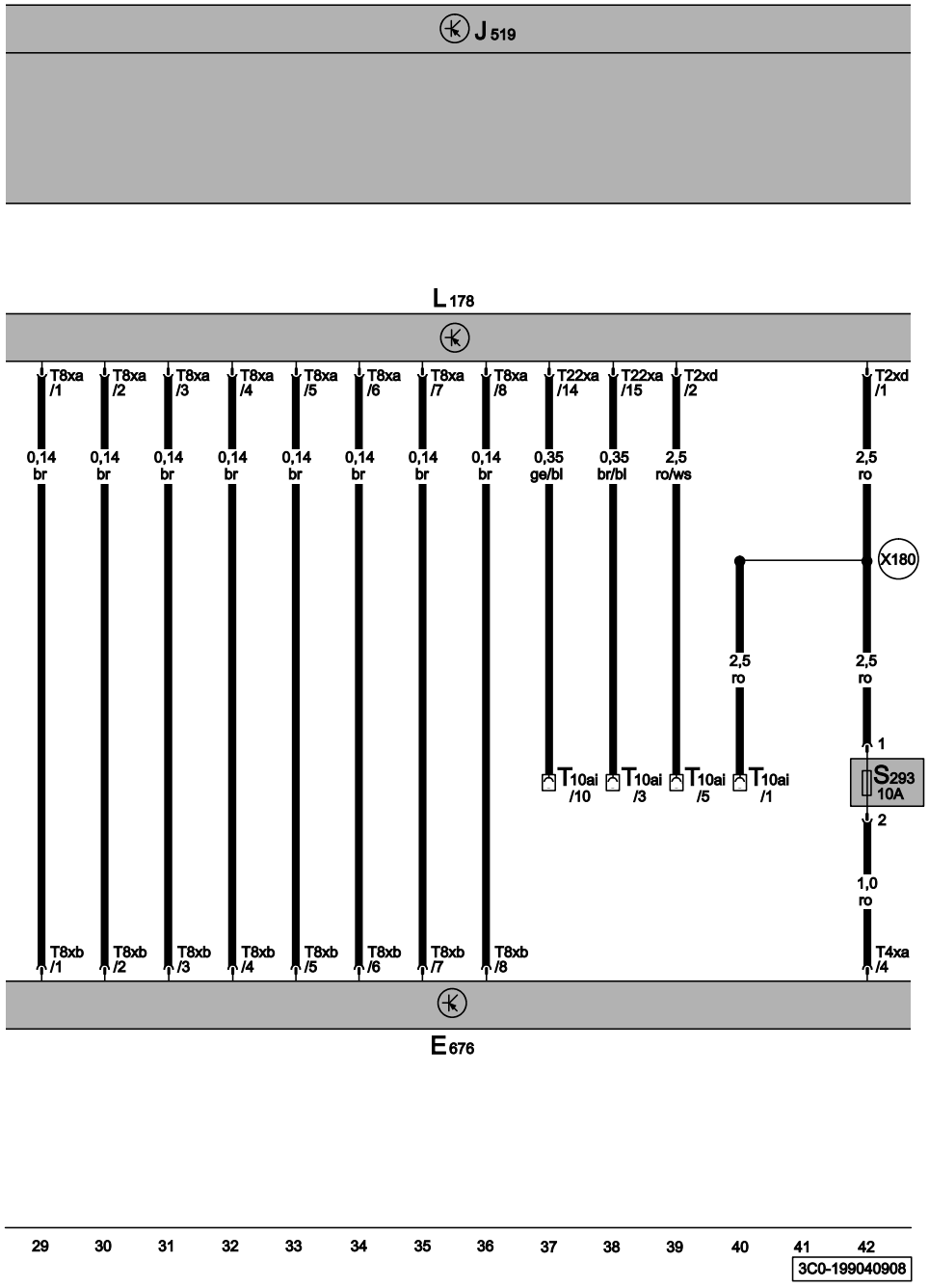
Special signal system operating unit, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L178	Special signal system with light bar and lettering
T8xe	8-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T22xa	22-pin connector
*	Depending on equipment, connection on special vehicle operating unit is either connected or bridged



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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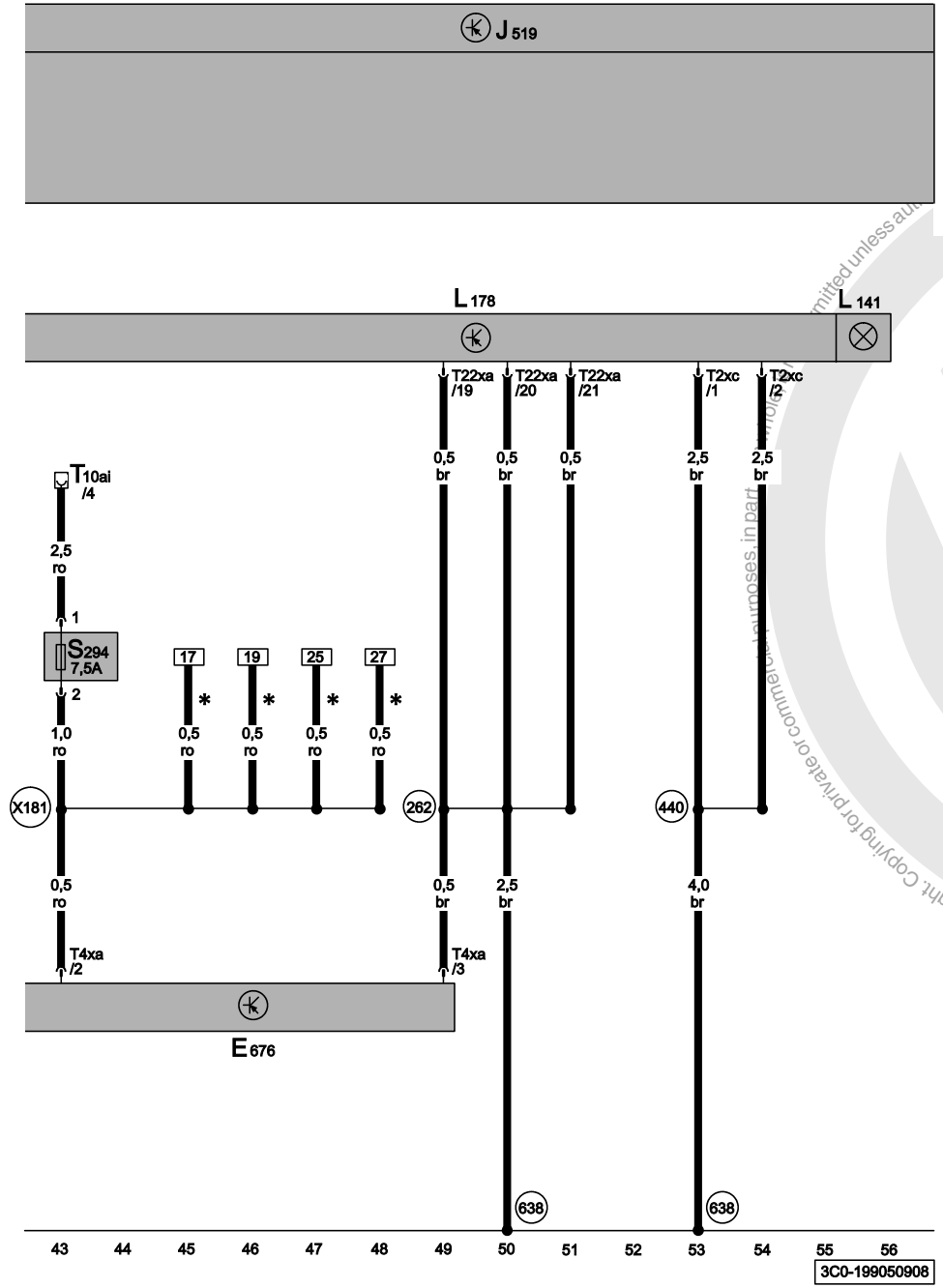


Special signal system operating unit, special signal system with light bar and lettering, special vehicle fuse 3

E676	Special signal system operating unit
J519	Onboard supply control unit
L178	Special signal system with light bar and lettering
S293	Special vehicle fuse 3
T2xd	2-pin connector
T4xa	4-pin connector
T8xa	8-pin connector
T8xb	8-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T22xa	22-pin connector
X180	Positive connection 5 (30a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Special signal system operating unit, blue flashing light 2, special signal system with light bar and lettering, special vehicle fuse 4

E676	Special signal system operating unit
J519	Onboard supply control unit
L141	Flashing light 2, blue
L178	Special signal system with light bar and lettering
S294	Special vehicle fuse 4
T2xc	2-pin connector
T4xa	4-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T22xa	22-pin connector
262	Earth connection, in siren wiring harness
440	Earth connection 1, in siren system wiring harness
638	Earth point, on right A-pillar
X181	Positive connection 6 (30a), in siren wiring harness
*	According to equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Special signal system TOPas/OPAL digital

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

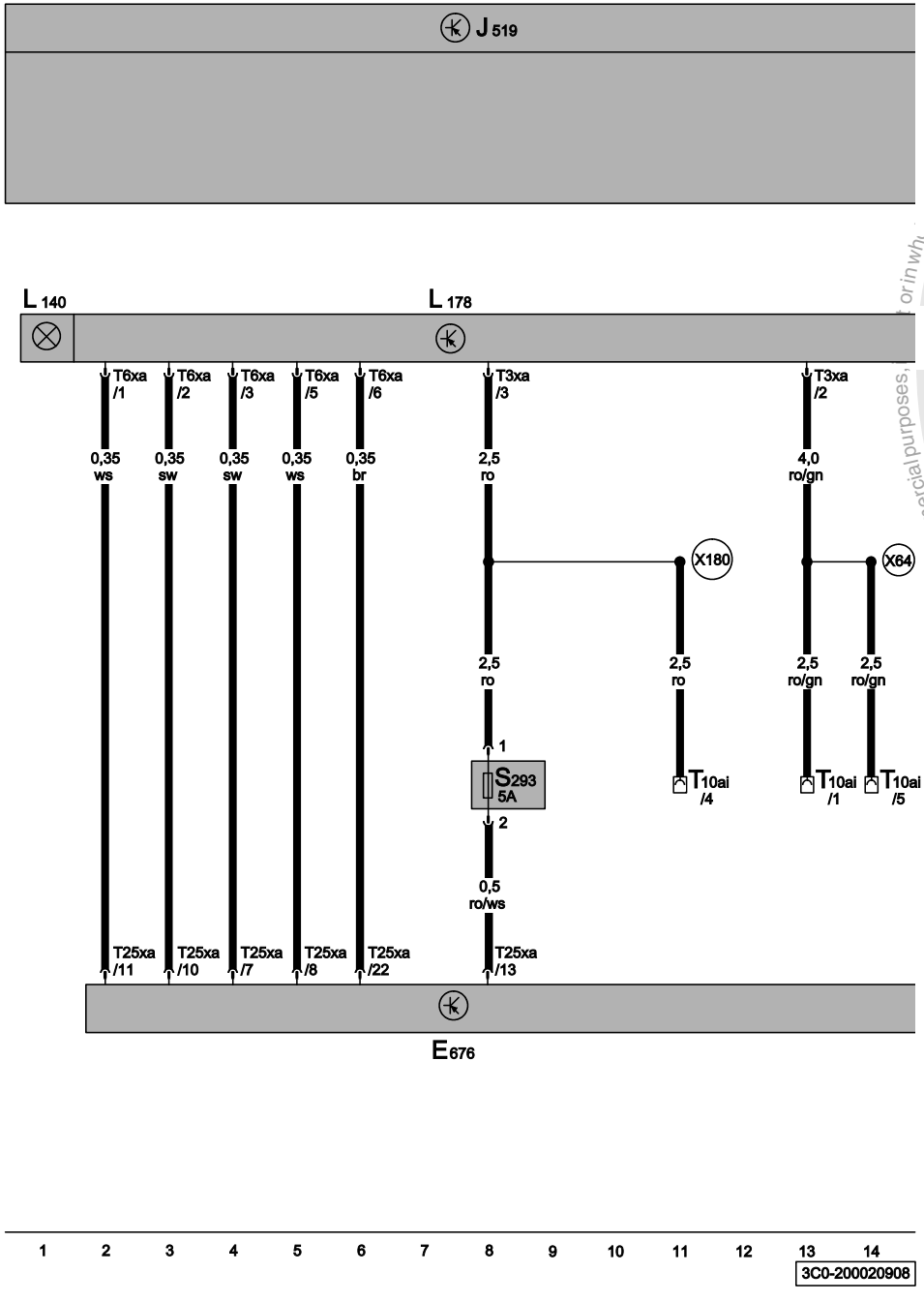
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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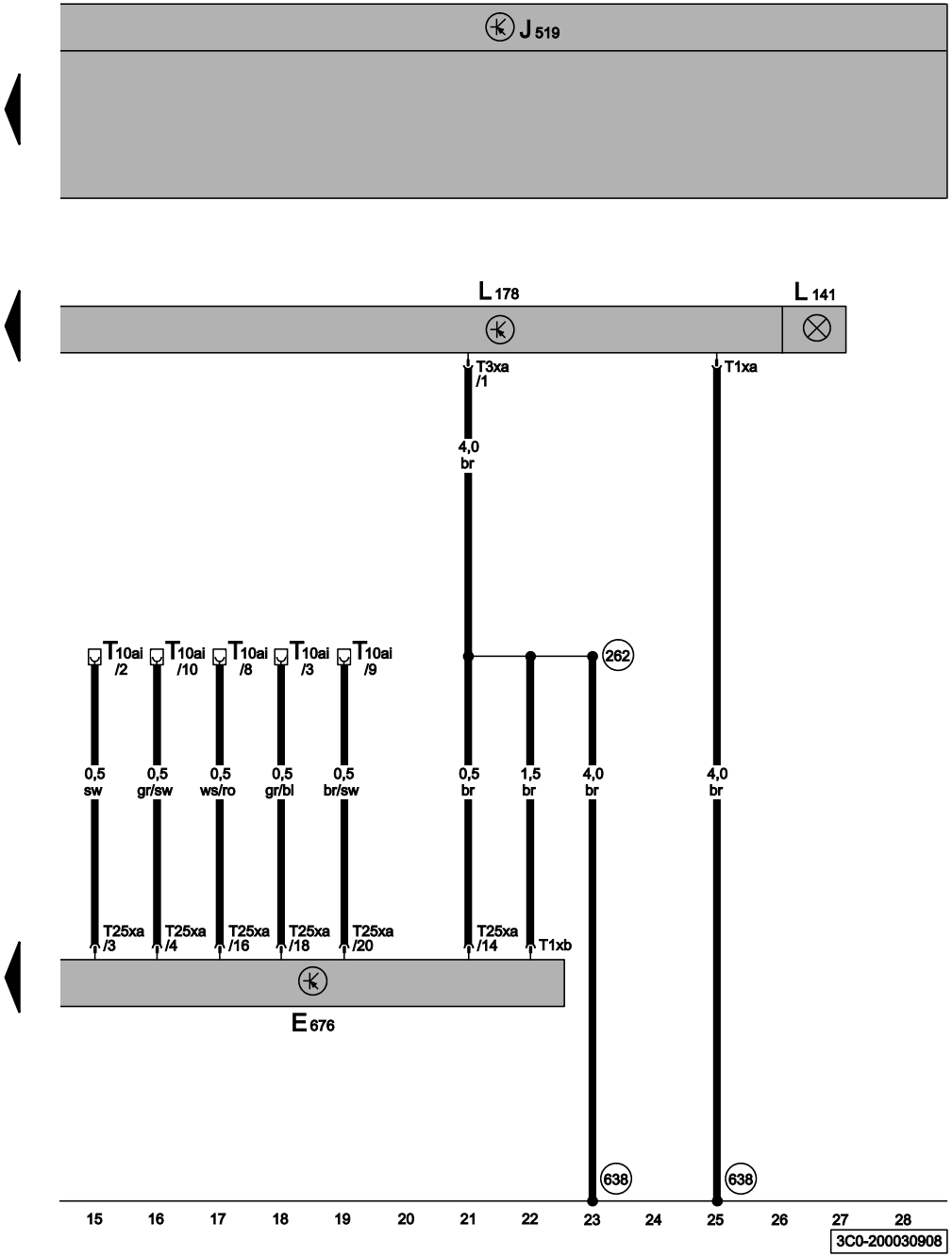


Special signal system operating unit, blue flashing light 1, special signal system with light bar and lettering, special vehicle fuse 3

E676	Special signal system operating unit
J519	Onboard supply control unit
L140	Flashing light 1, blue
L178	Special signal system with light bar and lettering
S293	Special vehicle fuse 3
T3xa	3-pin connector
T6xa	6-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T25xa	25-pin connector
X64	Positive connection (30a), in wiring harness for tone sequence system
X180	Positive connection 5 (30a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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Special signal system operating unit, blue flashing light 2, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L141	Flashing light 2, blue
L178	Special signal system with light bar and lettering
T1xa	Single connector
T1xb	Single connector
T3xa	3-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T25xa	25-pin connector
(262)	Earth connection, in siren wiring harness
(638)	Earth point, on right A-pillar

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li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

1 Multimedia system ’Rear Seat Entertainment’

1.1 Multimedia system ’Rear Seat Entertainment’

1.1.1 The following is required for fault finding:

- Vehicle Diagnosis, Testing and Information System VAS 5051
- Auxiliary measuring set V.A.G 1594 G or V.A.G 1594 C
- Release tool kit VAS 1978/35
- Operating Manual for Multimedia System
- Current flow diagram Passat 2006 ▸, Multimedia system (Rear Seat Entertainment)

1.1.2 Prerequisites:

- Battery negative terminal clamp secured tight on negative terminal.
- Fuses for Multimedia system RSE in electrics box on left in engine compartment are OK.

Electrics box in version Low: Fuse SB1 on slot F1

Electrics box in version High: Fuse SB22 on slot F22

- Battery voltage is OK.
- Terminal 15 switch voltage at connector T12j/10 on radio or navigation unit is OK.

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- DVD is OK.
- Batteries for remote control are OK.

1.1.3 Preparation for fault finding:

– Switch off ignition and all electrical consumers.
– Leave ignition key in ignition lock.
– Switch on radio or navigation unit .

Note:

If necessary, open connector housing on wiring harness to perform measurements. Use release tool kit VAS 1978/35 for this.

Conduct a functional check of the multimedia system RSE after rectifying faults.

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1.2 Checking multimedia system "Rear Seat Entertainment"

Notes:

- *If the Multimedia system does not function via the remote control, even though the batteries are OK, first perform fault finding test step J on page ⇒ page 20 before replacing the remote control.*
- *The RSE system is always operated using the remote control in the following descriptions and fault finding programs. The remote control can also be used to operate the respective functions in the individual work sequences.*
- *If the Multimedia system RSE works perfectly in the rear but the radio system at the front produces no reproduction, perform guided fault finding using Vehicle Diagnosis, Testing and Information System VAS 5051.*

Checking function of DVD player (R7):

- Switch radio on.
- Remove any audio CDs from the radio unit.
- Select CD mode via "CD" button on radio.

DVD player (R7) switches on:

DVD player (R7) does not switch on:

▼

Continue fault finding with test step "C" ⇒ page 6

▼

Checking "switch-on" function of Multimedia system RSE:

- Operate ON/OFF button on both displays.

Both displays switch on.

Both displays (Y22, Y23) do not switch on.
- Continue fault finding with test step "F" ⇒ page 9

▼

- Continue fault finding with test step "A" ⇒ page 4

Display unit (Y22) does not switch on.
- Continue fault finding with test step "K" ⇒ page 11

Display unit (Y23) does not switch on.
- Continue fault finding with test step "L" ⇒ page 13

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1.2.1 Test step A

Checking insertion of DVDs for DVD player (R7):

- Insert a DVD into DVD player.

DVD is pulled-in by unit and loads.

- Checking DVD reproduction of Multimedia system RSE:
  - Select reproduction source "DVD" on display unit.
    ⇒ Changing reproduction source, ⇒ Operating Manual for Multimedia system RSE
  - Operate "Play button" on DVD player.
    ⇒ Switching on play function on DVD player, ⇒ Operating Manual for Multimedia system RSE

  Reproduction of sound and picture is OK.

  - Continue fault finding with test step "B" ⇒ page 5

  Reproduction of sound via loudspeaker/ headphones and picture is not OK

  Reproduction of sound via loudspeaker and picture is not OK.
  - Continue fault finding with test step "G" ⇒ page 15 .

  Only reproduction of sound via headphones is not OK.
  - Continue fault finding with test step "H" ⇒ page 17

DVD is not pulled-in.

- Replace DVD player (R7).

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1.2.2 Test step B

Checking Aux reproduction function of Multimedia system RSE:	
- Connect an auxiliary unit to the auxiliary connection for the reproduction of sound and pictures (i.e. a play station or a camcorder). Prerequisites: Output signal of auxiliary unit is OK. - Select reproduction source "AUX" on display unit. ⇒ Changing reproduction source, ⇒ Operating Manual for Multimedia system RSE - Start play function of auxiliary unit.	
Reproduction of sound and picture is OK.	Reproduction of sound and picture is not OK.
▼	▼
- Check control line for remote control and OSD menu. Only carry out this test step when the control of the Multimedia system via the remote control does not function.	- Check wiring between auxiliary unit (R176) and Multimedia system control unit (J650) , test step "I", ⇒ page 19 .
▼	
- Continue fault finding with test step "J" ⇒ page 20 ⇒ page 20 ⇒ page 20 ⇒ page 20 .	

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1.2.3 Test step C

Checking input voltage on DVD player (R7):	
- Remove DVD player. ⇒ Repair manual Communication, Repair group 91 - Disconnect connector T12o on DVD player. - Measure voltages for following on wiring harness connector using Vehicle Diagnosis, Testing and Information System VAS 5051: ♦ 12-pin connector T12o, chamber 1: Terminal 30 battery voltage ♦ 12-pin connector T12o, chamber 8: Terminal 15 switch voltage when radio or radio navigation system is switched on ♦ 12-pin connector T12o, chamber 7: Terminal 31	
Test results OK.	Test results not OK.
▼	▼
- Replace DVD player (R7).	- Continue fault finding with test step "D" ⇒ page 7

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1.2.4 Test step D

Checking output voltages for DVD player at Multimedia system control unit (J650):

- Remove Multimedia system control unit.
⇒ Repair manual Communication, Repair group 91
- Measure voltages for following on green wiring harness connector T26d using Vehicle Diagnosis, Testing and Information System VAS 5051:
♦ 26-pin connector T26d, chamber 1: Terminal 30 battery voltage
♦ 26-pin connector T26d, chamber 2: Terminal 15 battery voltage, with radio unit switched on
♦ 26-pin connector T26d, chamber 14: Terminal 31

Test results OK.	Test results not OK.
Wiring between multimedia control unit (J650) and DVD player defective.	- Check input voltages for Multimedia system control unit (J650) , test step "E", ⇒ page 8
- Check wiring/connections referring to current flow diagram and repair if necessary.	

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1.2.5 Test step E

Checking input voltages for Multimedia system control unit (J650):

- Measure voltages for following on black wiring harness connector T26c using Vehicle Diagnosis, Testing and Information System VAS 5051:
  - ♦ 26-pin connector T26c, chamber 1: Terminal 30 battery voltage
  - ♦ 26-pin connector T26c, chamber 2: Terminal 15 switch voltage, with radio unit switched on
  - ♦ 26-pin connector T26c, chamber 14: Terminal 31

Test results OK.	Test results not OK.
▼	▼
- Replace Multimedia system control unit (J650).	- Check wiring/connections referring to current flow diagram and repair if necessary.

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1.2.6 Test step F:

Checking output voltages for display units (Y22, Y23) on Multimedia system control unit (J650):

- Remove Multimedia system control unit.
⇒ Repair manual Communication, Repair group 91
- Measure voltages for following on green wiring harness connector using Vehicle Diagnosis, Testing and Information System VAS 5051:
♦ Connector T26d, chamber 26: Terminal 30 battery voltage
♦ Connector T26d, chamber 19: Terminal 31

Test results OK.

- Disconnect connections T8al and T8ak for display units (located under seats).
- Check following wiring connections between Multimedia system control unit and connectors T8al und T8ak, located under seats, for open/short circuit referring to current flow diagram:
♦ Connector T26d, chamber 19 to connector T8al, chamber 4 and to connector T8ak, chamber 4
♦ Connector T26d, chamber 26 to connector T8al, chamber 1 and to connector T8ak, chamber 1

Test results OK.

Test results not OK.

- Check wiring/connections referring to current flow diagram and repair if necessary.

Test results not OK.

- Replace Multimedia system control unit (J650).

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- Dismantle backrest on seat, ⇒ Body repair manual, repair group 72
- Disconnect green connector T7 or T7a on inside of each seat backrest.
- Check following wiring connections between connectors T8al und T8ak, located under seat, and connectors T7 and T7a, located in backrest, for open/short circuit referring to current flow diagram:
  - ♦ Connector T8al, chamber 4 to connector T7a, chamber 4
  - ♦ Connector T8ak, chamber 4 to connector T7, chamber 4
  - ♦ Connector T8al, chamber 1 to connector T7a, chamber 1
  - ♦ Connector T8ak, chamber 1 to connector T7, chamber 1

Test results OK.	Test results not OK.
- Replace display units (Y22, Y23).	- Check wiring/connections referring to current flow diagram and repair if necessary.

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1.2.7 Test step K

Checking wiring/connections for display unit (Y22) from Multimedia system control unit (J650) to display unit:

- Remove Multimedia system control unit.
⇒ Repair manual Communication, Repair group 91
- Pull connector T26d off Multimedia system control unit.
- Check following wiring connections between Multimedia system control unit and connectors T8al, located under left seat, for open/short circuit referring to current flow diagram:
◆ Connector T26d, chamber 26 to connector T8al, chamber 1
◆ Connector T26d, chamber 19 to connector T8al, chamber 4

Test results OK. ▼

Test results not OK. ▼

- Check wiring/connections referring to current flow diagram and repair if necessary.

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Checking wiring/connections for Multimedia display unit (Y22):

- Dismantle backrest on left seat, ⇒ Body repair manual, repair group 72
- Disconnect green connector T7a on inside of seat backrest.
- Check following wiring connections between connector T8al, located under seat, to connector T7a, in seat backrest, for open/short circuit referring to current flow diagram:
♦ Connector T8al, chamber 1 to connector T7a, chamber 1
♦ Connector T8al, chamber 4 to connector T7a, chamber 4

Test results OK.

- Replace display unit (Y22).

Test results not OK.

- Check wiring/connections referring to current flow diagram and repair if necessary.

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1.2.8 Test step L

Checking wiring/connections for display unit (Y23) from Multimedia system control unit (J650) to display unit:

- Remove Multimedia system control unit.
⇒ Repair manual Communication, Repair group 91
- Pull connector T26d off Multimedia system control unit.
- Check following wiring connections between Multimedia system control unit and connectors T8ak, located under right seat, for open/short circuit referring to current flow diagram:
◆ Connector T26d, chamber 26 to connector T8ak, chamber 1
◆ Connector T26d, chamber 19 to connector T8ak, chamber 4

Test results OK. ▼

Test results not OK. ▼

- Check wiring/connections referring to current flow diagram and repair if necessary.

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Checking wiring/connections for Multimedia display unit (Y23):

- Dismantle backrest on right seat, ⇒ Body repair manual, repair group 72
- Disconnect green connector T7 on inside of seat backrest.
- Check following wiring connections between connector T8ak, located under seat, to connector T7, in seat backrest, for open/short circuit referring to current flow diagram:
♦ Connector T8ak chamber 1 to connector T7, chamber 1
♦ Connector T8ak, chamber 4 to connector T7, chamber 4

Test results OK.

- Replace display unit (Y23).

Test results not OK.

- Check wiring/connections referring to current flow diagram and repair if necessary.

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1.2.9 Test step G:

Checking wiring/connections for picture and sound from DVD player (R7) to Multimedia system control unit (J650):
- Remove Multimedia system control unit. - Remove DVD player in glove compartment. ⇒ Repair manual Communication, Repair group 91 - Pull green connector T26d off Multimedia system control unit and connector T12o off DVD player. - Check wiring/connections for following from green wiring harness connector T26d on Multimedia system control unit to connector T12o on DVD player for open/short circuit using Vehicle Diagnosis, Testing and Information System VAS 5051: ♦ Connector T26d, chamber 4 to connector T12o, chamber 11 ♦ Connector T26d, chamber 5 to connector T12o, chamber 5 ♦ Connector T26d, chamber 16 to connector T12o, chamber 10 ♦ Connector T26d, chamber 18 to connector T12o, chamber 4 ♦ Connector T26d, chamber 17 to connector T12o, chamber 3
Test results OK. / Test results not OK.

▼

- Check wiring/connections referring to current flow diagram and repair if necessary.

▼

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- For test purposes, replace DVD player.

Reproduction OK.	Reproduction not OK.
End of fault finding program.	- Replace Multimedia system control unit.

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1.2.10 Test step H:

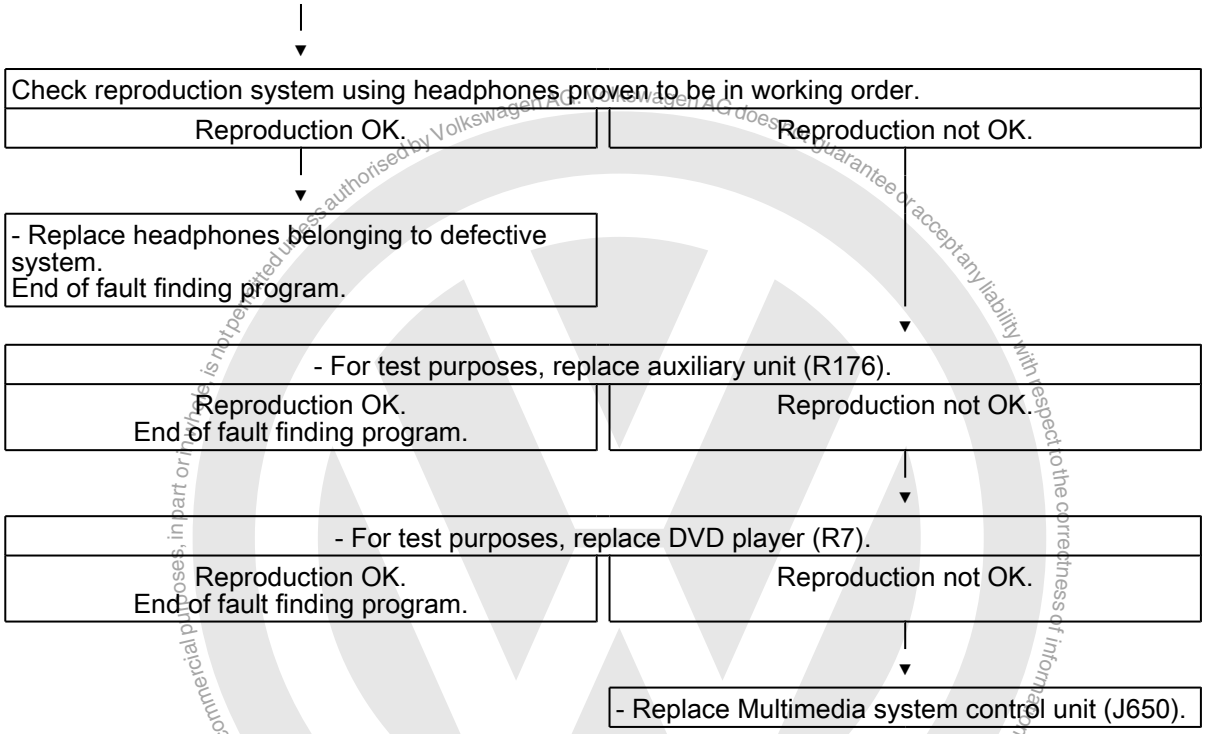
Checking wiring/connections for sound signal for headphones from Multimedia system control unit (J650) to auxiliary unit (R176):
- Remove Multimedia system control unit. - Remove auxiliary unit. ⇒ Repair manual Communication, Repair group 91 - Pull black connector T26c off Multimedia system control unit and connector T18g off auxiliary connection unit. - Check wiring/connections for following from black wiring harness connector T26c on Multimedia system control unit to connector T18g on auxiliary unit for open/short circuit using Vehicle Diagnosis, Testing and Information System VAS 5051: ♦ Connector T26c, chamber 6 to connector T18g, chambers 1, 2 and 5 ♦ Connector T26c, chamber 11 to connector T18g, chamber 4 ♦ Connector T26c, chamber 12 to connector T18g, chamber 13 ♦ Connector T26c, chamber 18 to connector T18g, chamber 14 ♦ Connector T26c, chamber 19 to connector T18g, chamber 15
Test results OK. / Test results not OK.

▼

- Check wiring/connections referring to current flow diagram and repair if necessary.

▼

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1.2.11 Test step I

Checking wiring/connections for picture and sound from auxiliary unit (R176) to Multimedia system control unit (J650):
- Remove Multimedia system control unit. - Remove auxiliary unit. ⇒ Repair manual Communication, Repair group 91 - Pull black connector T26c off Multimedia system control unit and connector T18g off auxiliary connection unit. - Check wiring/connections for following from black wiring harness connector on Multimedia system control unit to connector on auxiliary unit for open/short circuit using Vehicle Diagnosis, Testing and Information System VAS 5051: ♦ Connector T26c, chamber 20 to connector T18g, chamber 6 ♦Connector T26c, chamber 21 to connector T18g, chamber 7 ♦ Connector T26c, chamber 7 to connector T18g, chamber 16 ♦ Connector T26c, chamber 8 to connector T18g, chamber 8 ♦ Connector T26c, chamber 9 to connector T18g, chamber 17
Test results OK. / Test results not OK.

▼

- Check wiring/connections referring to current flow diagram and repair if necessary.

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- Reconnect Multimedia system control unit (J650) and, for test purposes, replace auxiliary unit (R176).

Reproduction OK.	Reproduction not OK.
- End of fault finding program.	- Replace Multimedia system control unit (J650).

1.2.12 Test step J

Checking wiring/connections for remote control from Multimedia system control unit (J650) to DVD player (R7):

- Remove Multimedia system control unit.
- Remove DVD player.

⇒ Repair manual Communication, Repair group 91

- Pull green connector T26d off Multimedia system control unit and connector T12o off DVD player.
- Check wiring/connections for following from green wiring harness connector T26d on Multimedia system control unit to connector T12o on DVD player for open/short circuit using Vehicle Diagnosis, Testing and Information System VAS 5051:

26-pin connector T26d, chamber 3 to 12-pin connector T12o, chamber 2 am DVD-Player

Test results OK.	Test results not OK.
- Replace remote control unit	- Check wiring/connections referring to current flow diagram and repair if necessary.

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1 Check solar roof

Note:

- *Fault finding in the solar roof is made difficult by the fact that the electricity output of the solar roof cannot be checked precisely for a certain voltage or electricity value. The electricity output always depends on the intensity of the lightrays on the solar roof.*
- *As a rough guideline, one could say that, if it is cloudy, an electricity output of approx. 2 Volts and in sunny weather, an electricity output of up to 15 Volts can be achieved.*
- *This Fault-finding program will lead you through a short check of the electrical contacts of the solar roof in the roof, which is possible without major assembly work. Major faults in the area of the electrical contacts of the solar roof can be recognized at this point. Fitting locations of the electrical contacts of the solar roof ⇒ General body repairs, exterior; Repair group 60, sliding/tilting sunroof with solar lid (Webasto).*
- *If no faults are found during the short check of the electrical contacts of the solar roof, the Fault-finding program will lead you through the individual wiring connections and the components of the solar installation.*

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1.1 Check solar roof

1.1.1 The following are necessary for fault finding:

- Handmultimeter V.A.G 1526 C
- Adapter set V.A.G 1594 G or adapter set V.A.G 1594 C
- Current flow diagram solar roof
- Workshop Manual Passat General Body Repairs, exterior
- Operating Manual Passat

1.1.2 Test prerequisites:

- The solar roof must be clean!
- No roof carriers or similar accessories may be mounted on the roof!
- Sliding/tilting sunroof is mechanically OK!
- The outside temperature must be higher than 10 degrees Centigrade and there should be enough sunshine!

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1.2 Check solar roof

Quick check of the electrical contacts of the solar roof:	
- Open the sliding/tilting sunroof approx. 10 cm. - Check the electrical contacts of the solar roof on the carrier unit of the sliding/tilting sunroof for cleanliness and mechanical function. Fitting locations of the electrical contacts ⇒ General body repairs, exterior; Repair group 60. The electrical contacts of the solar roof have springs, should give a little and then automatically move back to the top end position. - Click the solar roof cover out at the front and slide it back under the solar lid. - Carry out a visual check of the electrical contacts of the solar roof.	
electric contacts of the roof not OK	electric contacts of the roof OK

▼

- Repair or replace the electrical contacts of the solar roof.
Remove the solar contact in the carrier unit or
Remove the solar contact in the solar lid:
⇒General body repairs, exterior; Repair group 60

▼

Check solar roof function:	
- Drive vehicle outside and close the sliding/tilting sunroof. - Remove the baffle plate of the heater on the passenger's side. - Pull the connector T6be, 6-pin, off of the blower container. - Switch the measuring range switch of the multimeter V.A.G 1526 C to 20 V =. - Connect the black test probe to the body mass. - Connect the red test probe to the disconnected connector T6be to chamber 6.	
A voltage of 0 Volts is displayed.	A voltage of more than 0 Volts is displayed. The voltage value dependas on the intensity of the light.

▼

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The function of the solar roof is OK.
Continue the fault-finding with the vehicle diagnosis, testing and information system -VAS 5051- or the vehicle diagnosis and service information system -VAS 5052- in the function "Guided fault finding" for the airconditioning.

Wiring connection between connector T6be and te right electric contact of the solar roof in the carrier unit of the sliding/tilting sunroof:

- Open the sliding/tilting sunroof approx. 10 cm.
- Set the measuring range switch of the multimeter V.A.G 1526 C to
- Connect the black test probe to the connector T6be on chamber 6.
- Place the red test probe on the right electric contact of the solar roof in the carrier unit of the sliding/ tilting sunroof.

No acoustic signal

- Check the wiring connection for open or short circuit from the connector T6be, chamber 6, to the connectors T10f, chamber 10 and T2bc, chamber 1, to the right electric contact of the solar roof in the carrier unit of the sliding/tilting sunroof according to the current flow diagram.
- Especially check the right electric contact of the solar roof for proper function of the spring mechanism and its connector for cleanliness and mechanical condition.
Remove the solar contact in the carrier unit:
⇒General body repairs, exterior; Repair group 60

Acoustic signal

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Check the right electric contact of the solar roof while it is closed:

- Click the solar roof cover out at the front and slide it back under the solar lid.
- Close the sliding/tilting sunroof or move the roof into the tilted position.
- Set the measuring range switch of the multimeter V.A.G 1526 C to
- Connect the black test probe to the connector T6be on chamber 6.
- Place the red test probe on the connector of the right electric contact of the solar roof in the solar lid.
- During the measurement, change the position of the sliding/tilting sunroof from closed to tilted up at the back.

No acoustic signal in both positions of the sliding/ tilting sunroof	Acoustic signal in both positions of the sliding/ tilting sunroof

- Check the sliding/tilting sunroof for correct mechanical setting.
⇒General body repairs, exterior; Repair group 60
- In the solar lid, check the right electric contact and its connector for flawless contact, cleanliness and mechanical condition.
Remove the solar contact in the solar lid:
⇒General body repairs, exterior; Repair group 60

Check the wiring connection from the earth point to the left electric contact of the solar roof:

- Open the sliding/tilting sunroof approx. 10 cm.
- Set the measuring range switch of the multimeter V.A.G 1526 C to
- Connect the black test probe to the body mass.
- Place the red test probe on the left electric contact of the solar roof in the carrier unit of the sliding/ tilting sunroof.

No acoustic signal	Acoustic signal

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- Check the wiring connection of the body mass via connector T2bc, chamber 2, to the left electric contact of the solar roof in the carrier unit of the sliding/tilting sunroof according to the current flow diagram for open or short circuit.
- Especially check the cable to the earth point 683 on the right A-pillar for flawless contact as well as the left electric contact of the solar roof for the flawless function of the spring mechanism and its connector for cleanliness and mechanical condition.

Remove the solar contact in the carrier unit:
⇒General body repairs, exterior; Repair group 60

Check the left electric contact of the solar roof while it is closed:

- Click the solar roof cover out at the front and slide it back under the solar lid.
- Close the sliding/tilting sunroof or move the roof into the tilted position.
- Set the measuring range switch of the multimeter V.A.G 1526 C to
- Connect the black test probe to the body mass.
- Place the red test probe on the connector of the left electric contact of the solar roof in the solar lid.
- During the measurement, change the position of the sliding/tilting sunroof from closed to tilted up at the back.

No acoustic signal in both positions of the sliding/ tilting sunroof	Acoustic signal in both positions of the sliding/ tilting sunroof

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- Check the sliding/tilting sunroof for correct setting. ⇒General body repairs, exterior; Repair group 60 - In the solar lid, check the left electric contact and its connector for flawless contact, cleanliness and mechanical condition. Remove the solar contact in the solar lid: ⇒General body repairs, exterior; Repair group 60	Replace solar roof. ⇒General body repairs, exterior; Repair group 60

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1 Multimedia system ’Rear Seat Entertainment’ for models 11.2007 ▸

1.1 Multimedia system ’Rear Seat Entertainment’ for models 11.2007 ▸

1.1.1 The following is required for fault finding:

- Vehicle Diagnosis, Testing and Information System VAS 5051
- Auxiliary measuring set V.A.G 1594 G or V.A.G 1594 C
- Release tool kit VAS 1978/35
- Operating Manual for Multimedia System
- Current flow diagram Passat 2006 ▸, Multimedia system (Rear Seat Entertainment)

1.1.2 Prerequisites:

- Battery negative terminal clamp secured tight on negative terminal.
- Following Multimedia system RSE fuses are OK.:

Fuse SC1 on fuse holder C

Fuse SC31 on fuse holder C

Electrics box in version Low: Fuse SB1 on slot F1

Electrics box in version High: Fuse SB22 on slot F22

- Battery voltage is OK.

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- DVD is OK.
- Batteries for remote control are OK.

1.1.3 Preparation for fault finding:

– Switch off ignition and all electrical consumers.

– Leave ignition key in ignition lock.

Notes:

- *If necessary, open connector housing on wiring harness to perform measurements. Use release tool kit VAS 1978/35 for this.*
- *Multimedia system RSE is fitted with a relay to monitor voltage. During all test/measurements, ensure the battery voltage does not drop below 12 Volt. The relay for monitoring the voltage of the RSE system switches off at a voltage of 11.5 Volt and on again at a voltage of 12.5 Volt.*

Conduct a functional check of the multimedia system RSE after rectifying faults.

Models 11.07 ▸: The RSE system is not coupled to the radio or radio navigation system. This means that there is no sound reproduction from RSE system over the radio and vehicle loud speakers.

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1.2 Checking multimedia system "Rear Seat Entertainment"

Notes:

- *If the Multimedia system does not function via the remote control, even though the batteries are OK, first perform fault finding test step J on page 1/20 before replacing the remote control.*
- *The RSE system is always operated using the remote control in the following descriptions and fault finding programs. The remote control can also be used to operate the respective functions in the individual work sequences.*

Checking voltage supply to voltage monitoring relay (J813):	
- Pull voltage monitoring relay off relay carrier 1 on left under dash panel. - Switch ignition on. - Measure following voltages on relay socket: ♦ On relay socket chamber 1 positive voltage supply, terminal 15 voltage supply ♦ On relay socket chamber 4 positive voltage supply, terminal 30 voltage supply ♦ On relay socket chamber 6 negative voltage, terminal 31	
Values are OK.	Values are not OK.

▼

Check wiring/connections referring to current flow diagram and repair if necessary.

▼

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Checking function of voltage monitoring relay (J813):
Ensure voltage supply does not drop below 12 Volt during tests/measurements - Reconnect voltage monitoring relay to correct slot on relay carrier. - Remove Multimedia system control unit. ⇒ Repair manual Communication, Repair group 91. - Disconnect connector T26c on Multimedia system control unit (J650). - Switch ignition on. - Measure voltages for following on wiring harness connector T26c using Vehicle Diagnosis, Testing and Information System VAS 5051: ♦ 26-pin connector T26c, chamber 2, battery voltage terminal 15 ♦ 26-pin connector T26c, chamber 14 terminal 31

Values are OK.

Values are not OK.

▼

Check wiring/connections referring to current flow diagram and repair if necessary or replace voltage monitoring relay (J813).

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Checking function of DVD player (R7):

- Pull voltage monitoring relay off slot on relay carrier.
- Create bridge between chambers 4 and 8 on relay socket using equipment from auxiliary measuring set V.A.G 1594.
This action switches off the voltage monitoring function during test/measurements. Bridge should remain in position during testing of RSE system
- Switch on DVD player.

DVD player (R7) switches on.	DVD player (R7) does not switch on.
	Continue fault finding with test step "C" ⇒ page 6

Checking "switch-on" function of Multimedia system RSE:

- Operate ON/OFF button on both displays.

Both displays switch on.	Both displays (Y22, Y23) do not switch on. - Continue fault finding with test step "F" ⇒ page 9
- Continue fault finding with test step "A" ⇒ page 4	Display unit (Y22) does not switch on. - Continue fault finding with test step "K" ⇒ page 11 Display unit (Y23) does not switch on. - Continue fault finding with test step "L" ⇒ page 13

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1.2.1 Test step A

Checking insertion of DVDs for DVD player (R7):

- Insert a DVD into the DVD player.

DVD is pulled-in by unit and loads.	DVD is not pulled-in.
	▼
	- Replace DVD player (R7).
▼	

Checking DVD reproduction of Multimedia system RSE:

- Select reproduction source "DVD" on display unit.
⇒ Changing reproduction source, ⇒ Operating Manual for Multimedia system RSE
- Operate "Play button" on DVD player.
⇒ Switching on play function on DVD player, ⇒ Operating Manual for Multimedia system RSE

Reproduction of sound and picture is OK.	Reproduction of sound via headphones and picture is not OK.
▼	▼
- Continue fault finding with test step "B" ⇒ page 5	Reproduction of sound via headphones and picture is not OK. - Continue fault finding with test step "G" ⇒ page 15 . Only reproduction of sound via headphones is not OK. - Continue fault finding with test step "H" ⇒ page 17

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1.2.2 Test step B

Checking Aux reproduction function of Multimedia system RSE:

- Connect an auxiliary unit to the auxiliary connection for the reproduction sound and pictures (i.e. a play station or a camcorder).
Prerequisites: Output signal of auxiliary unit is OK.
- Select reproduction source "AUX" on display unit.
⇒ Changing reproduction source, ⇒ Operating Manual for Multimedia system RSE
- Start the play function of the auxiliary unit.

Reproduction of sound and picture is OK.	Reproduction of sound and picture is not OK.
▼	▼
- Check control line for remote control and OSD menu. Only carry out this test step when the control of the Multimedia system via the remote control does not function.	- Check wiring between auxiliary unit (R176) and Multimedia system control unit (J650) , test step "I", ⇒ page 19 .
▼	
- Continue fault finding with test step "J" ⇒ page 20 ⇒ page 20 ⇒ page 20 ⇒ page 20 .	

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1.2.3 Test step C

Checking input voltage on DVD player (R7):	
- Remove DVD player ⇒Workshop manual; Communication; Repair group 91. - Do not disconnect connector T12o on DVD player. - Open connector housing of connector T12o using release tool kit VAS 1978/35. - Measure voltages for following on wiring harness connector using Vehicle Diagnosis, Testing and Information System VAS 5051: ♦ 12-pin connector T12o, chamber 1: Terminal 30 battery voltage ♦ 12-pin connector T12o, chamber 8: Terminal 15 switch voltage ♦ 12-pin connector T12o, chamber 7: Terminal 31	
Values are OK.	Values are not OK.
▼	▼
- Replace DVD player (R7).	- Continue fault finding with test step "D" ⇒ page 7

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1.2.4 Test step D

Checking output voltages for DVD player at Multimedia system control unit (J650):

- Remove Multimedia system control unit
⇒ Workshop manual; Communication; Repair group 91.
- Do not disconnect connectors on Multimedia system control unit.
- Open connector housing of connector T26d using release tool kit VAS 1978/35.
- Measure voltages for following on green wiring harness connector T26d using Vehicle Diagnosis, Testing and Information System VAS 5051:
♦ 26-pin connector T26d, chamber 1: Terminal 30 battery voltage
♦ 26-pin connector T26d, chamber 2: Terminal 15 switch voltage
♦ 26-pin connector T26d, chamber 14: Terminal 31

Values are OK.	Values are not OK.
▼	▼
Wiring between multimedia control unit (J650) and DVD player defective.	- Check input voltages for Multimedia system control unit (J650) , test step "E", ⇒ page 8
▼	
- Check wiring/connections referring to current flow diagram and repair if necessary.	

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1.2.5 Test step E

Checking input voltages for Multimedia system control unit (J650):

- Measure voltages for following on black wiring harness connector T26c using Vehicle Diagnosis, Testing and Information System VAS 5051:
  - ♦ 26-pin connector T26c, chamber 1: Terminal 30 battery voltage
  - ♦ 26-pin connector T26c, chamber 2: Terminal 15 switch voltage
  - ♦ 26-pin connector T26c, chamber 14: Terminal 31

Values are OK.	Values are not OK.
▼	▼
- Replace Multimedia system control unit (J650).	- Check wiring/connections referring to current flow diagram and repair if necessary.

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1.2.6 Test step F:

Checking output voltages for display units (Y22, Y23) on Multimedia system control unit (J650):

- Remove Multimedia system control unit
⇒ Workshop manual; Communication; Repair group 91.
- Do not disconnect connectors on Multimedia system control unit.
- Open connector housing of connector T26d using release tool kit VAS 1978/35.
- Measure voltages for following on green wiring harness connector using Vehicle Diagnosis, Testing and Information System VAS 5051:
♦ Connector T26d, chamber 26: Terminal 30 battery voltage
♦ Connector T26d, chamber 19: Terminal 31

Values are OK.

- Disconnect connections T8al and T8ao for display units (located under seats).
- Check following wiring connections between Multimedia system control unit and connectors T8al und T8ao, located under seats, for open/short circuit referring to current flow diagram:
♦ Connector T26d, chamber 19 to connector T8al, chamber 4 and to connector T8ao, chamber 4
♦ Connector T26d, chamber 26 to connector T8al, chamber 1 and to connector T8ao, chamber 1
♦ Connector T26d, chamber 26 to connector T8ak, chamber 1 and to connector T8ap, chamber 1

Values are OK.

Values are not OK.

- Check wiring/connections referring to current flow diagram and repair if necessary.

Values are not OK.

- Replace Multimedia system control unit (J650).

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- Dismantle backrest on seat, ⇒ Body repair manual, repair group 72.
- Disconnect connector T7 or T7a in each backrest.
- Check following wiring connections between connectors T8al und T8ak, located under seat, and green connectors T7 and T7a, located in backrest, for open/short circuit referring to current flow diagram:
  - ♦ Connector T8al, chamber 4 to connector T7a, chamber 2
  - ♦ Connector T8ak, chamber 1 to connector T7, chamber 1
  - ♦ Connector T8al, chamber 1 to connector T7a, chamber 1

Values are OK.	Values are not OK.
- Replace display units (Y22, Y23).	- Check wiring/connections referring to current flow diagram and repair if necessary.

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1.2.7 Test step K

Checking wiring/connections for display unit (Y22) from Multimedia system control unit (J650) to display unit:

- Remove Multimedia system control unit
⇒ Workshop manual; Communication; Repair group 91.
- Pull off connector T26d on Multimedia system control unit .
- Check following wiring connections between Multimedia system control unit and connectors T8al, located under left seat, for open/short circuit referring to current flow diagram:
◆ Connector T26d, chamber 26 to connector T8al, chamber 1
◆ Connector T26d, chamber 19 to connector T8al, chamber 4

Values are OK. ▼

Values are not OK. ▼

- Check wiring/connections referring to current flow diagram and repair if necessary.

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Checking wiring/connections for Multimedia display unit (Y22):

- Dismantle backrest on left seat, ⇒ Body repair manual, repair group 72.
- Disconnect connector T7a in backrest.
- Check following wiring connections between connector T8al, located under seat, to connector T7a, in seat backrest, for open/short circuit referring to current flow diagram:
  - ♦ Connector T8al, chamber 1 to connector T7a, chamber 1
  - ♦ Connector T8al, chamber 4 to connector T7a, chamber 2

Values are OK.	Values are not OK.
- Replace display unit (Y22)	- Check wiring/connections referring to current flow diagram and repair if necessary.

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1.2.8 Test step L

Checking wiring/connections for display unit (Y23) from Multimedia system control unit (J650) to display unit:

- Remove Multimedia system control unit
⇒ Workshop manual; Communication; Repair group 91.
- Pull off connector T26d on Multimedia system control unit .
- Check following wiring connections between Multimedia system control unit and connectors T8ak, located under right seat, for open/short circuit referring to current flow diagram:
◆ Connector T26d, chamber 26 to connector T8ak, chamber 1
◆ Connector T26d, chamber 19 to connector T8ak, chamber 4

Values are OK. ▼

Values are not OK. ▼

- Check wiring/connections referring to current flow diagram and repair if necessary.

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Checking wiring/connections for Multimedia display unit (Y23):

- Dismantle backrest on right seat, ⇒ Body repair manual, repair group 72.
- Disconnect green connector T7 in backrest.
- Check following wiring connections between connector T8ak, located under seat, to connector T7, in seat backrest, for open/short circuit referring to current flow diagram:
♦ Connector T8ak chamber 1 to connector T7, chamber 1
♦ Connector T8ak, chamber 4 to connector T7, chamber 2

Values are OK.	Values are not OK.
- Replace display unit (Y23)	- Check wiring/connections referring to current flow diagram and repair if necessary.

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1.2.9 Test step G:

Checking wiring/connections for picture and sound from DVD player (R7) to Multimedia system control unit (J650):

- Remove Multimedia system control unit
- Remove DVD player in glove compartment

⇒ Workshop manual; Communication; Repair group 91.

- Pull green connector T26d off Multimedia system control unit and connector T12o off DVD player.
- Check wiring/connections for following from green wiring harness connector T26d on Multimedia system control unit to connector T12o on DVD player for open/short circuit using Vehicle Diagnosis, Testing and Information System VAS 5051:

♦ Connector T26d, chamber 4 to connector T12o, chamber 11
♦ Connector T26d, chamber 5 to connector T12o, chamber 5
♦ Connector T26d, chamber 16 to connector T12o, chamber 10
♦ Connector T26d, chamber 18 to connector T12o, chamber 4
♦ Connector T26d, chamber 17 to connector T12o, chamber 3

Values are OK.	Values are not OK.
▼	▼
	- Check wiring/connections referring to current flow diagram and repair if necessary.

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- For test purposes, replace DVD player.

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End of fault finding program.	- Replace Multimedia system control unit.

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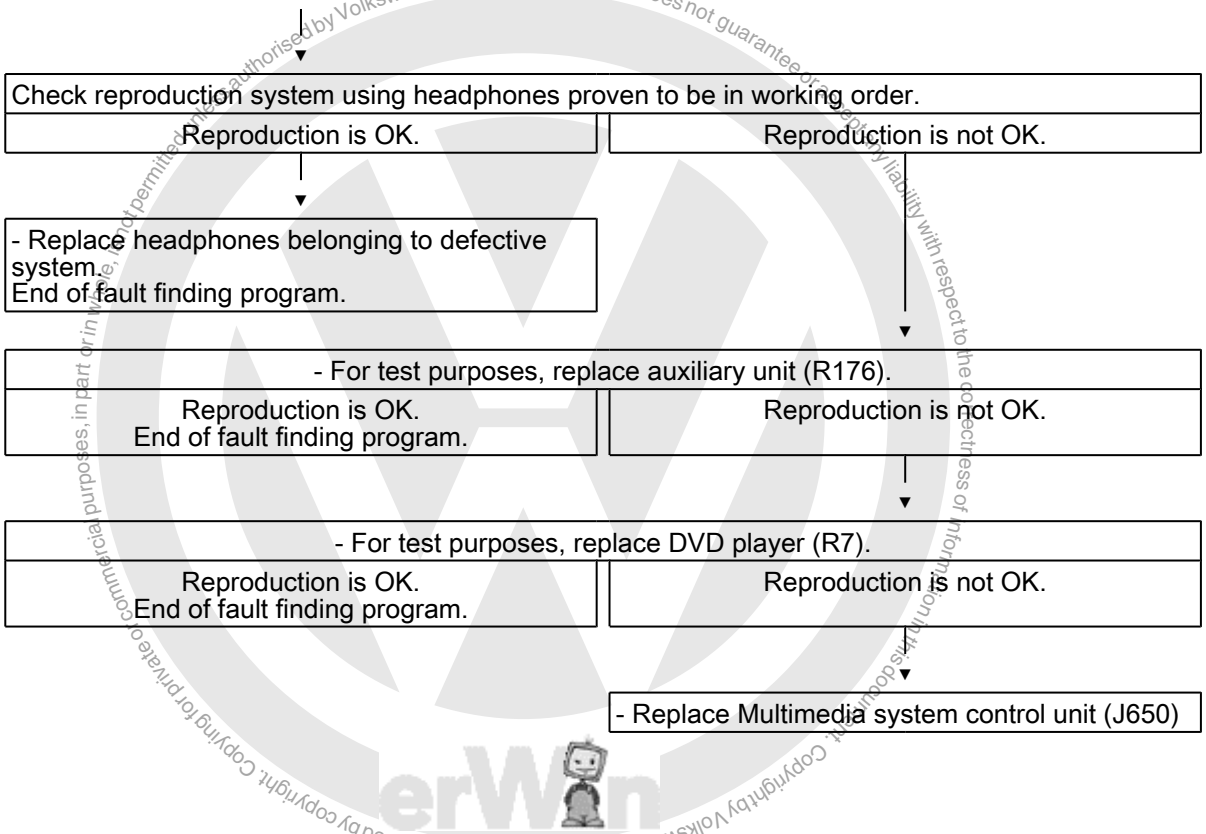
1.2.10 Test step H:

Checking wiring/connections for sound signal for headphones from Multimedia system control unit (J650) to auxiliary unit (R176):
- Remove Multimedia control unit - Remove auxiliary connection unit ⇒ Repair manual Communication, Repair group 91 - Pull black connector T26c off Multimedia system control unit and connector T18g off auxiliary connection unit. - Check wiring/connections for following from black wiring harness connector T26c on Multimedia system control unit to connector T18g on auxiliary connection unit for open/short circuit using Vehicle Diagnosis, Testing and Information System VAS 5051: ♦ Connector T26c, chamber 6 to connector T18g, chamber 1, 2 and 5 ♦ Connector T26c, chamber 11 to connector T18g, chamber 13 ♦ Connector T26c, chamber 12 to connector T18g, chamber 4 ♦ Connector T26c, chamber 18 to connector T18g, chamber 14 ♦ Connector T26c, chamber 19 to connector T18g, chamber 15
Values are OK. / Values are not OK.

▼

- Check wiring/connections referring to current flow diagram and repair if necessary.

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1.2.11 Test step I

Checking wiring/connections for picture and sound from auxiliary unit (R176) to Multimedia system control unit (J650):	
- Remove Multimedia system control unit - Remove auxiliary unit ⇒ Workshop manual; Communication; Repair group 91. - Pull black connector T26c off Multimedia system control unit and connector T18g off auxiliary unit. - Check wiring/connections for following from black wiring harness connector on Multimedia system control unit to connector on auxiliary unit for open/short circuit using Vehicle Diagnosis, Testing and Information System VAS 5051: ♦ Connector T26c, chamber 20 to connector T18g, chamber 6 ♦Connector T26c, chamber 21 to connector T18g, chamber 7 ♦ Connector T26c, chamber 7 to connector T18g, chamber 16 ♦ Connector T26c, chamber 8 to connector T18g, chamber 8 ♦ Connector T26c, chamber 9 to connector T18g, chamber 17	
Values are OK.	Values are not OK.
	- Check wiring/connections referring to current flow diagram and repair if necessary.

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- Reconnect Multimedia system control unit (J650) and, for test purposes, replace auxiliary unit (R176)

Reproduction is OK.	Reproduction is not OK.
- End of fault finding program.	- Replace Multimedia system control unit (J650).

1.2.12 Test step J

Checking wiring/connections for remote control from Multimedia system control unit (J650) to DVD player (R7):

- Remove Multimedia system control unit
- Remove DVD player
⇒ Workshop manual; Communication; Repair group 91.
- Pull green connector T26d off Multimedia system control unit and connector T12o off DVD player.
- Check wiring/connections for following from green wiring harness connector T26d on Multimedia system control unit to connector T12o on DVD player for open/short circuit using Vehicle Diagnosis, Testing and Information System VAS 5051:
26-pin connector T26d, chamber 3 to 12-pin connector T12o, chamber 2 am DVD-Player

Values are OK.	Values are not OK.
- Replace remote control unit	- Check wiring/connections referring to current flow diagram and repair if necessary.

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Special signal system TOPas/OPAL digital

From May 2007

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

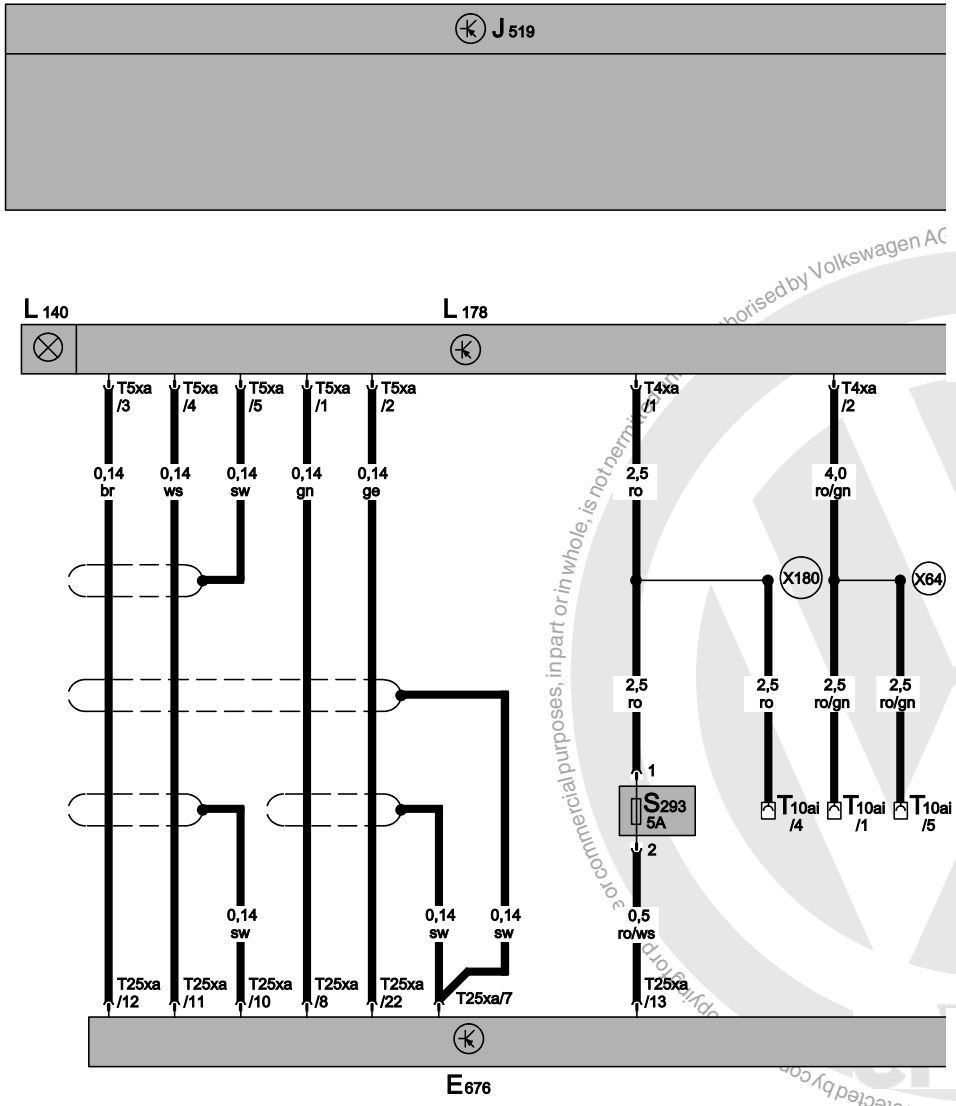
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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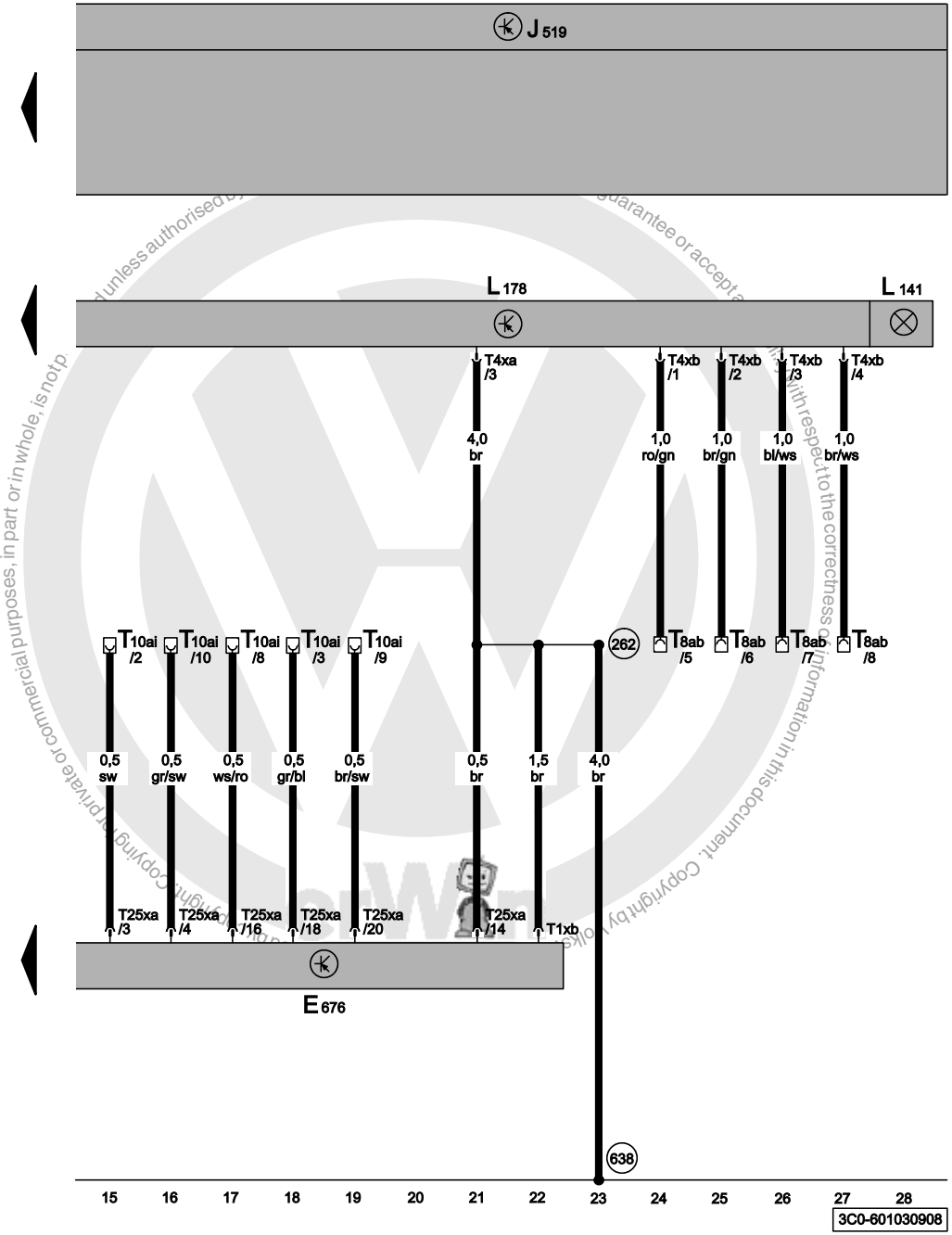


Special signal system operating unit, blue flashing light 1, special signal system with light bar and lettering, special vehicle fuse 3

E676	Special signal system operating unit
J519	Onboard supply control unit
L140	Flashing light 1, blue
L178	Special signal system with light bar and lettering
S293	Special vehicle fuse 3
T4xa	4-pin connector
T5xa	5-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T25xa	25-pin connector
X64	Positive connection (30a), in wiring harness for tone sequence system
X180	Positive connection 5 (30a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Special signal system operating unit, blue flashing light 2, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L141	Flashing light 2, blue
L178	Special signal system with light bar and lettering
T1xb	Single connector
T4xa	4-pin connector
T4xb	4-pin connector
T8ab	8-pin connector, special signals coupling point, right A-pillar
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T25xa	25-pin connector
262	Earth connection, in siren wiring harness
638	Earth point, on right A-pillar

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Special signal system TOPas/OPAL digital, with video safety surveillance (in-car video surveillance)

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

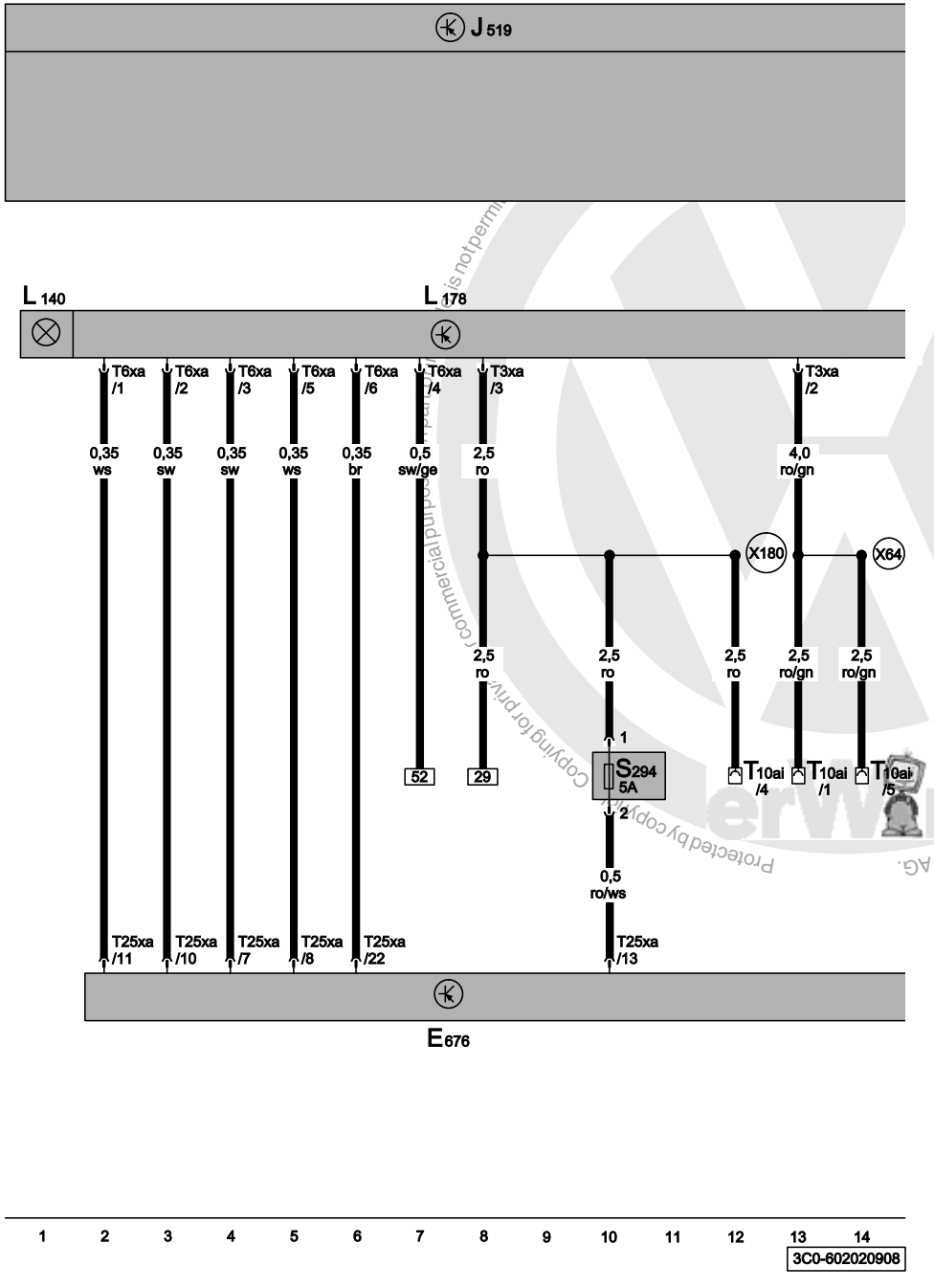
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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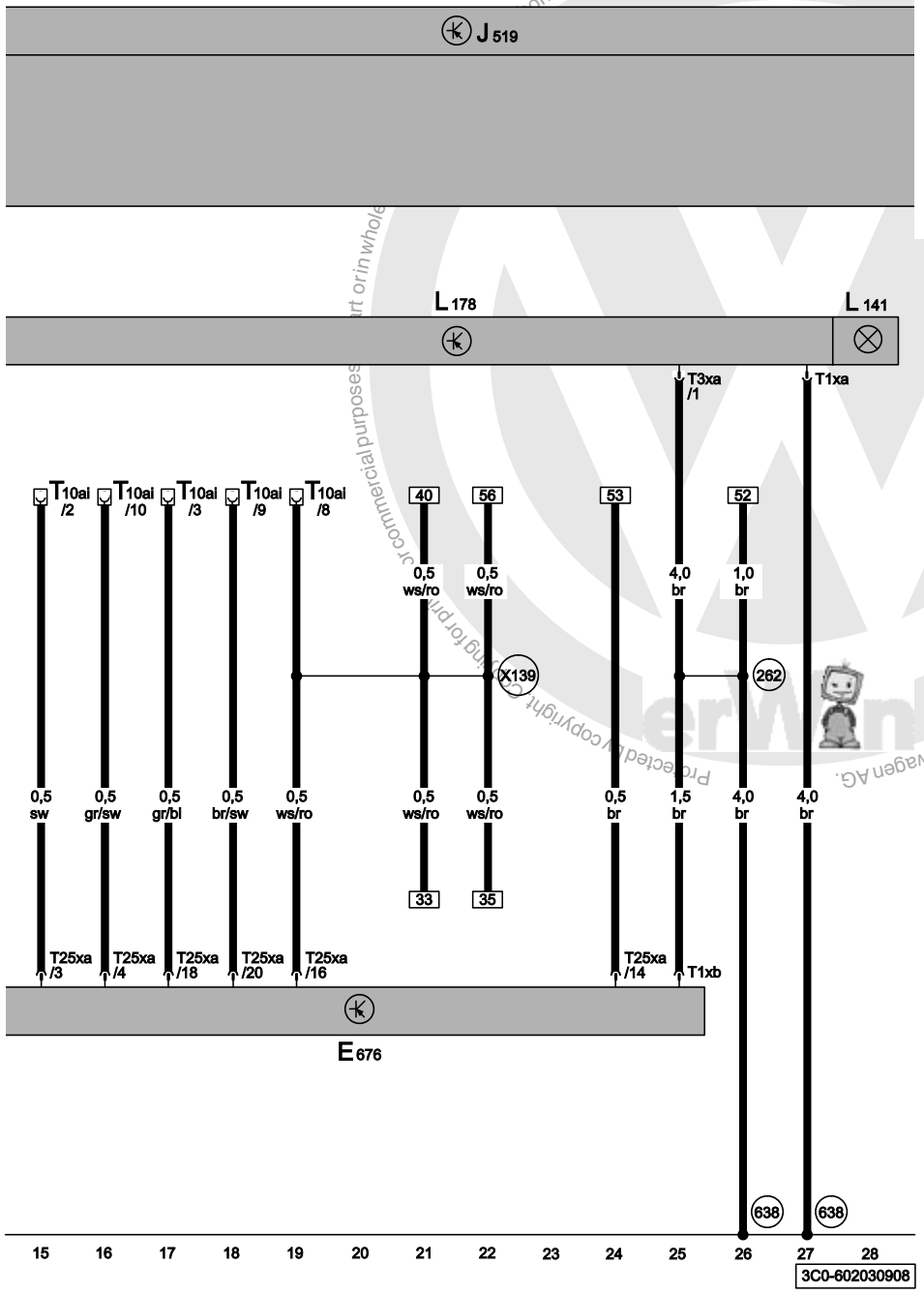


Special signal system operating unit, blue flashing light 1, special signal system with light bar and lettering, special vehicle fuse 4

E676	Special signal system operating unit
J519	Onboard supply control unit
L140	Flashing light 1, blue
L178	Special signal system with light bar and lettering
S294	Special vehicle fuse 4
T3xa	3-pin connector
T6xa	6-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T25xa	25-pin connector
X64	Positive connection (30a), in wiring harness for tone sequence system
X180	Positive connection 5 (30a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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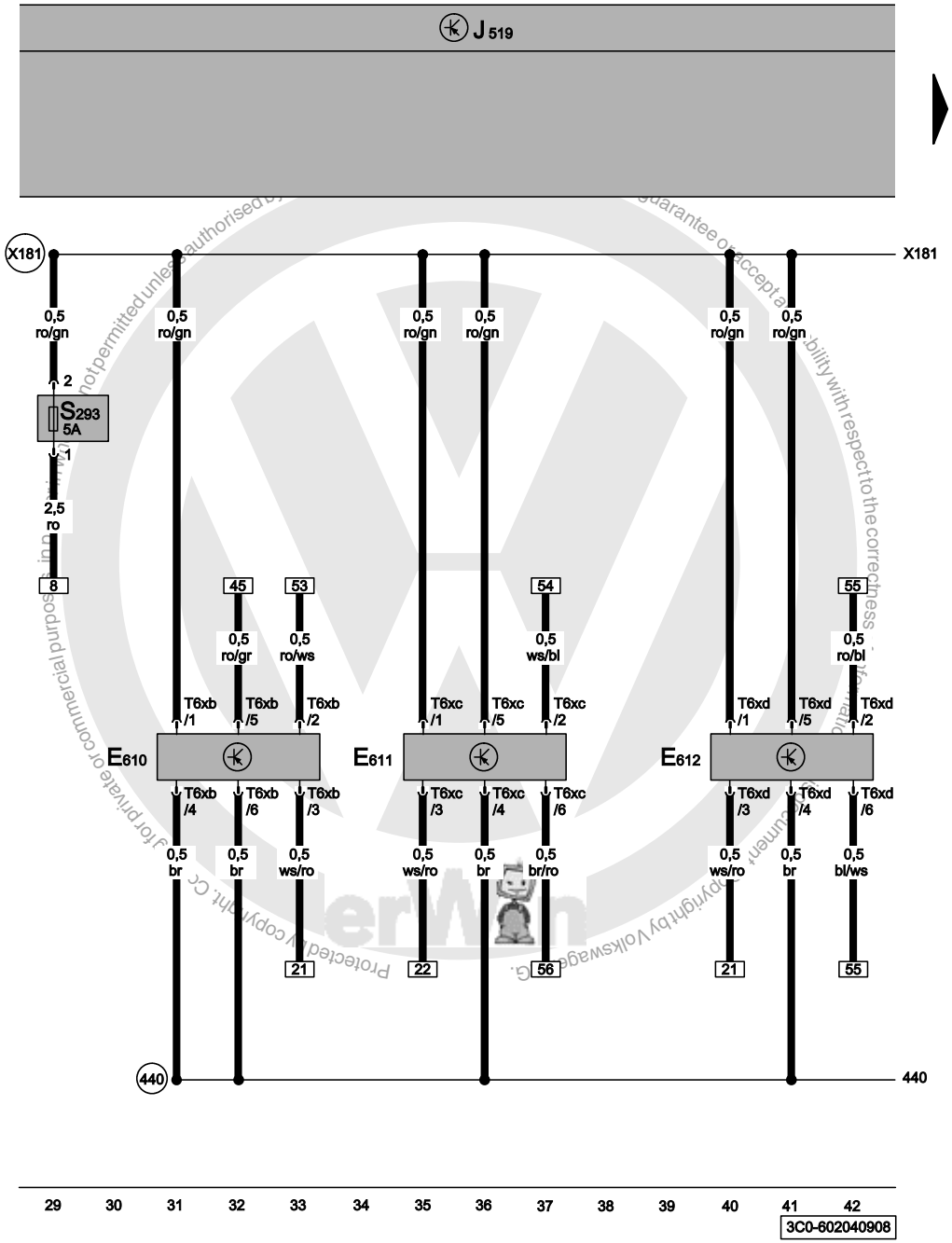


Special signal system operating unit, blue flashing light 2, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L141	Flashing light 2, blue
L178	Special signal system with light bar and lettering
T1xa	Single connector
T1xb	Single connector
T3xa	3-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T25xa	25-pin connector
262	Earth connection, in siren wiring harness
638	Earth point, on right A-pillar
X139	Positive connection 1 (15a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
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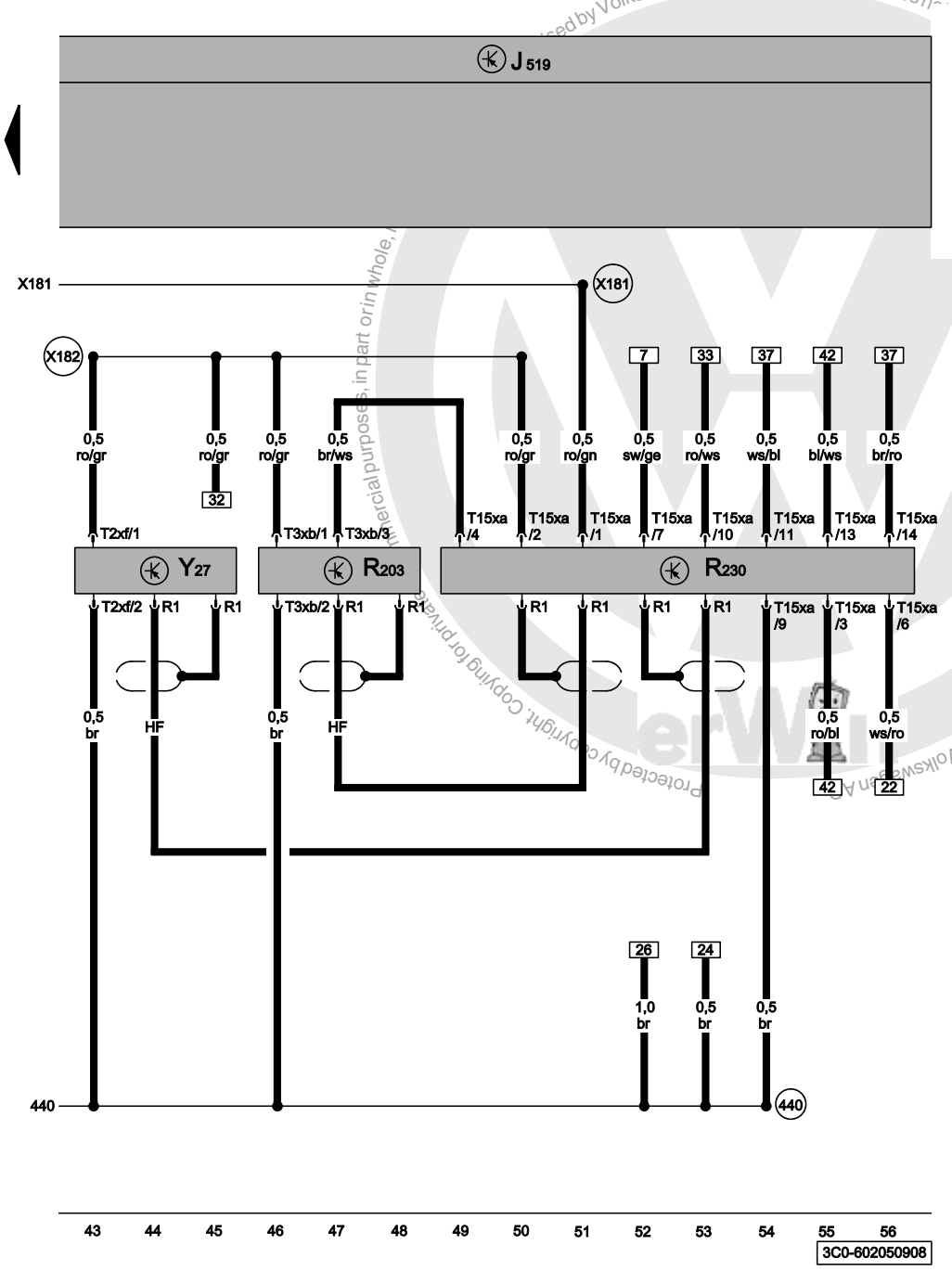


Button 1 for in-car video surveillance, button 2 for in-car video surveillance, button 3 for in-car video surveillance, special vehicle fuse 3

E610	Button 1 for in-car video surveillance
E611	Button 2 for in-car video surveillance
E612	Button 3 for in-car video surveillance
J519	Onboard supply control unit
S293	Special vehicle fuse 3
T6xb	6-pin connector
T6xc	6-pin connector
T6xd	6-pin connector
440	Earth connection 1, in siren system wiring harness
X181	Positive connection 6 (30a), in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Camera for in-car video surveillance, data storage unit for in-car video surveillance, display unit for in-car video surveillance

J519	Onboard supply control unit
R1	Aerial connection
R203	Camera for in-car video surveillance
R230	Data storage unit for in-car video surveillance
T2xf	2-pin connector
T3xb	3-pin connector
T15xa	15-pin connector
Y27	Display unit for in-car video surveillance
440	Earth connection 1, in siren system wiring harness
X181	Positive connection 6 (30a), in siren wiring harness
X182	Connection (87), in siren wiring harness

ws	=	white
sw	=	black
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Special signal system TOPas/OPAL digital, with video safety surveillance (in-car video surveillance)

From May 2007

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

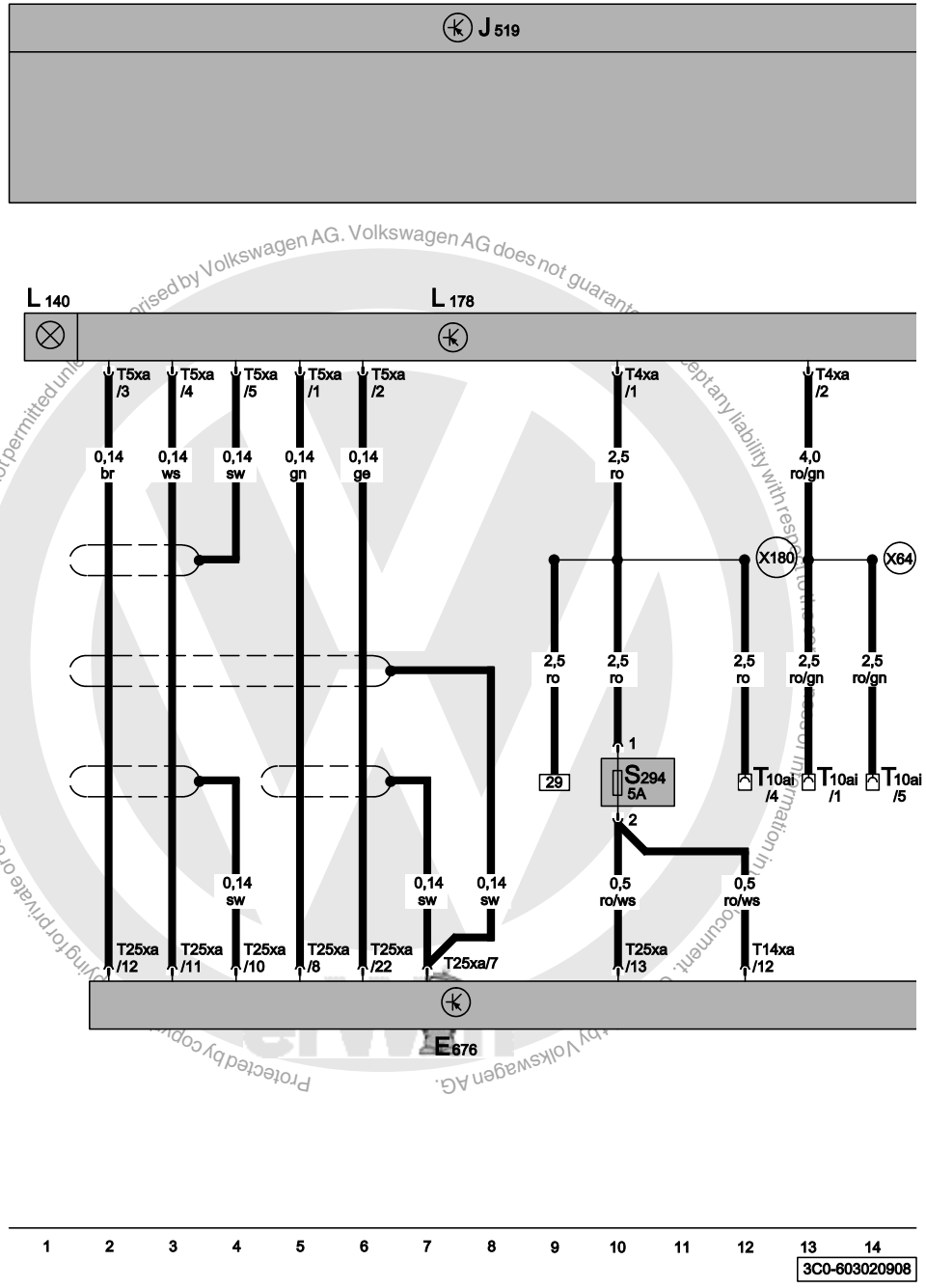
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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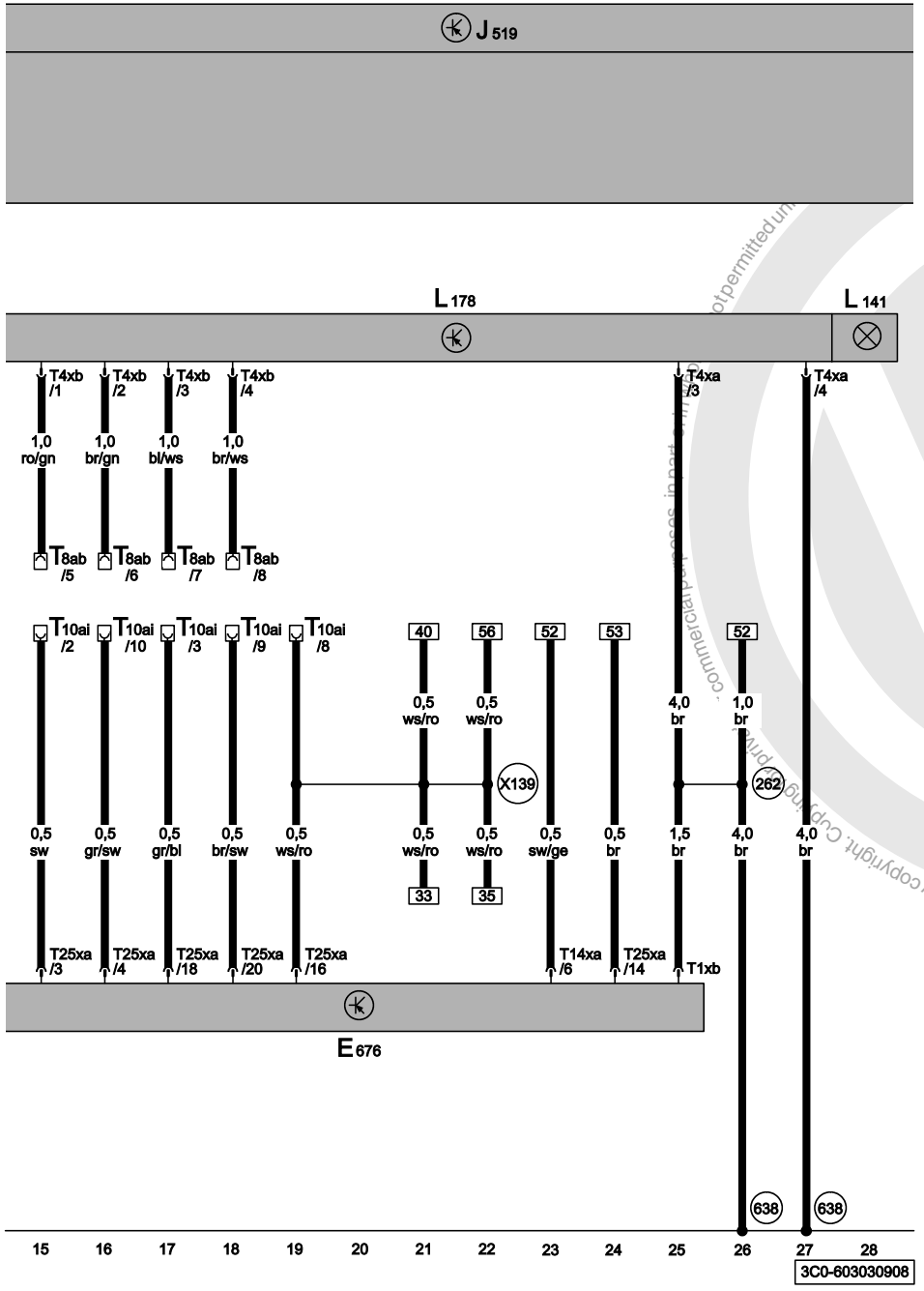


Special signal system operating unit, blue flashing light 1, special signal system with light bar and lettering, special vehicle fuse 4

E676	Special signal system operating unit
J519	Onboard supply control unit
L140	Flashing light 1, blue
L178	Special signal system with light bar and lettering
S294	Special vehicle fuse 4
T4xa	4-pin connector
T5xa	5-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T14xa	14-pin connector
T25xa	25-pin connector
X64	Positive connection (30a), in wiring harness for tone sequence system
X180	Positive connection 5 (30a), in siren wiring harness

ws	=	white
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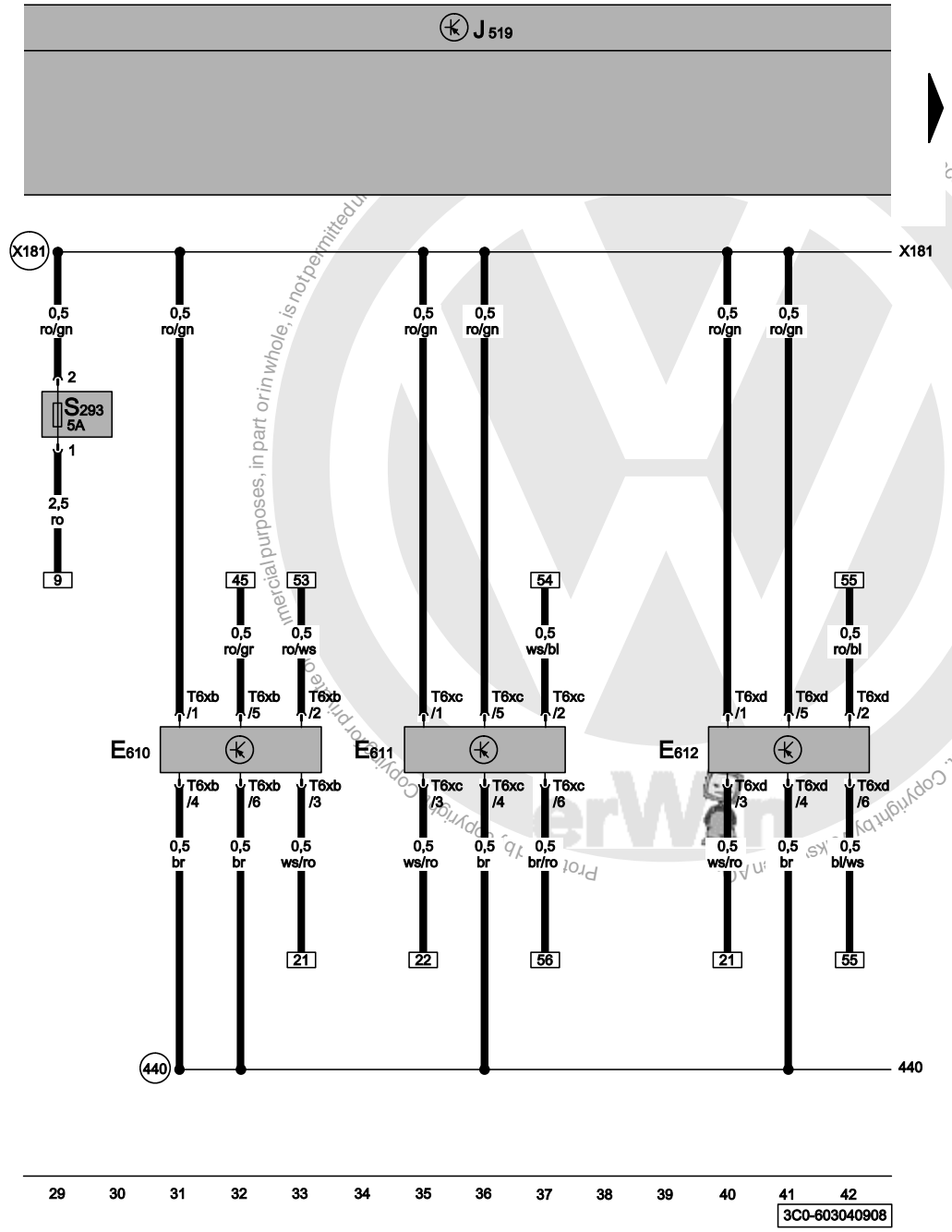


Special signal system operating unit, blue flashing light 2, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L141	Flashing light 2, blue
L178	Special signal system with light bar and lettering
T1xb	Single connector
T4xa	4-pin connector
T4xb	4-pin connector
T8ab	8-pin connector, special signals coupling point, right A-pillar
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T14xa	14-pin connector
T25xa	25-pin connector
262	Earth connection, in siren wiring harness
638	Earth point, on right A-pillar
X139	Positive connection 1 (15a), in siren wiring harness

ws	=	white
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gn = green
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gr = grey
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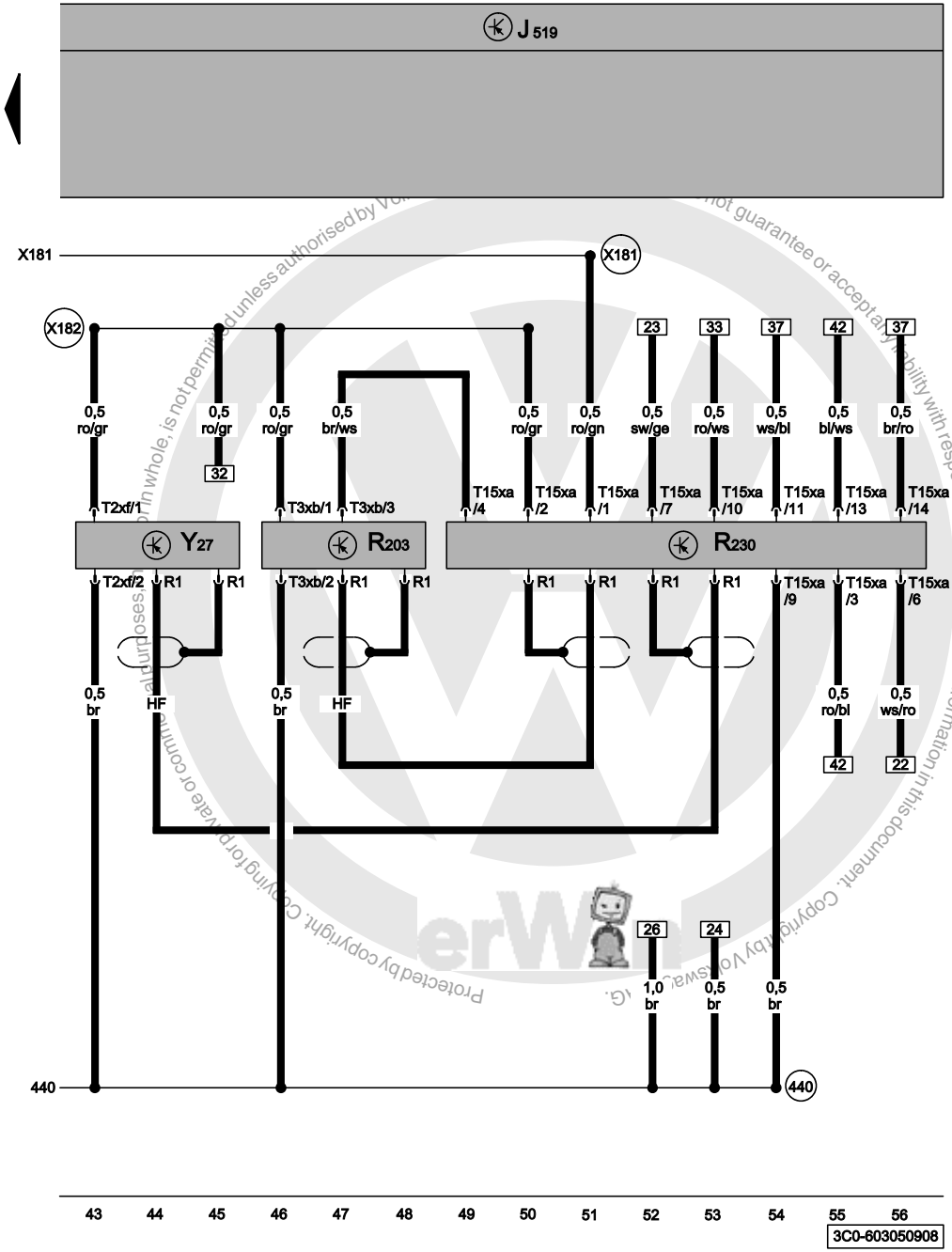
Button 1 for in-car video surveillance, button 2 for in-car video surveillance, button 3 for in-car video surveillance, special vehicle fuse 3

E610 Button 1 for in-car video surveillance
E611 Button 2 for in-car video surveillance
E612 Button 3 for in-car video surveillance
J519 Onboard supply control unit
S293 Special vehicle fuse 3
T6xb 6-pin connector
T6xc 6-pin connector
T6xd 6-pin connector

(440) Earth connection 1, in siren system wiring harness

(X181) Positive connection 6 (30a), in siren wiring harness

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Camera for in-car video surveillance, data storage unit for in-car video surveillance, display unit for in-car video surveillance

J519	Onboard supply control unit
R1	Aerial connection
R203	Camera for in-car video surveillance
R230	Data storage unit for in-car video surveillance
T2xf	2-pin connector
T3xb	3-pin connector
T15xa	15-pin connector
Y27	Display unit for in-car video surveillance
440	Earth connection 1, in siren system wiring harness
X181	Positive connection 6 (30a), in siren wiring harness
X182	Connection (87), in siren wiring harness

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Special signal system TOPas/OPAL analogue

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!

For information concerning

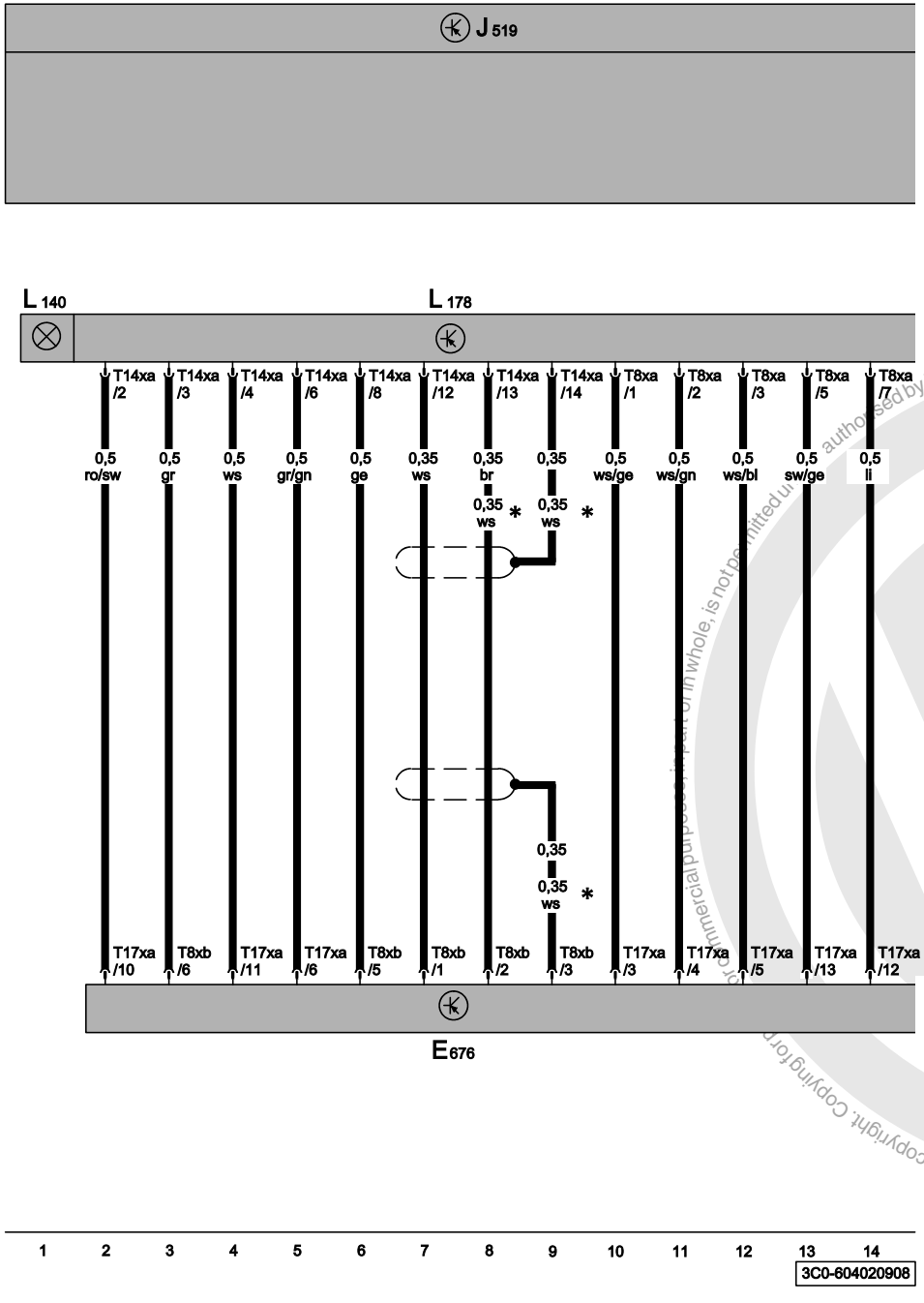
- Fault Finding Programs

⇒ Guided Fault Finding

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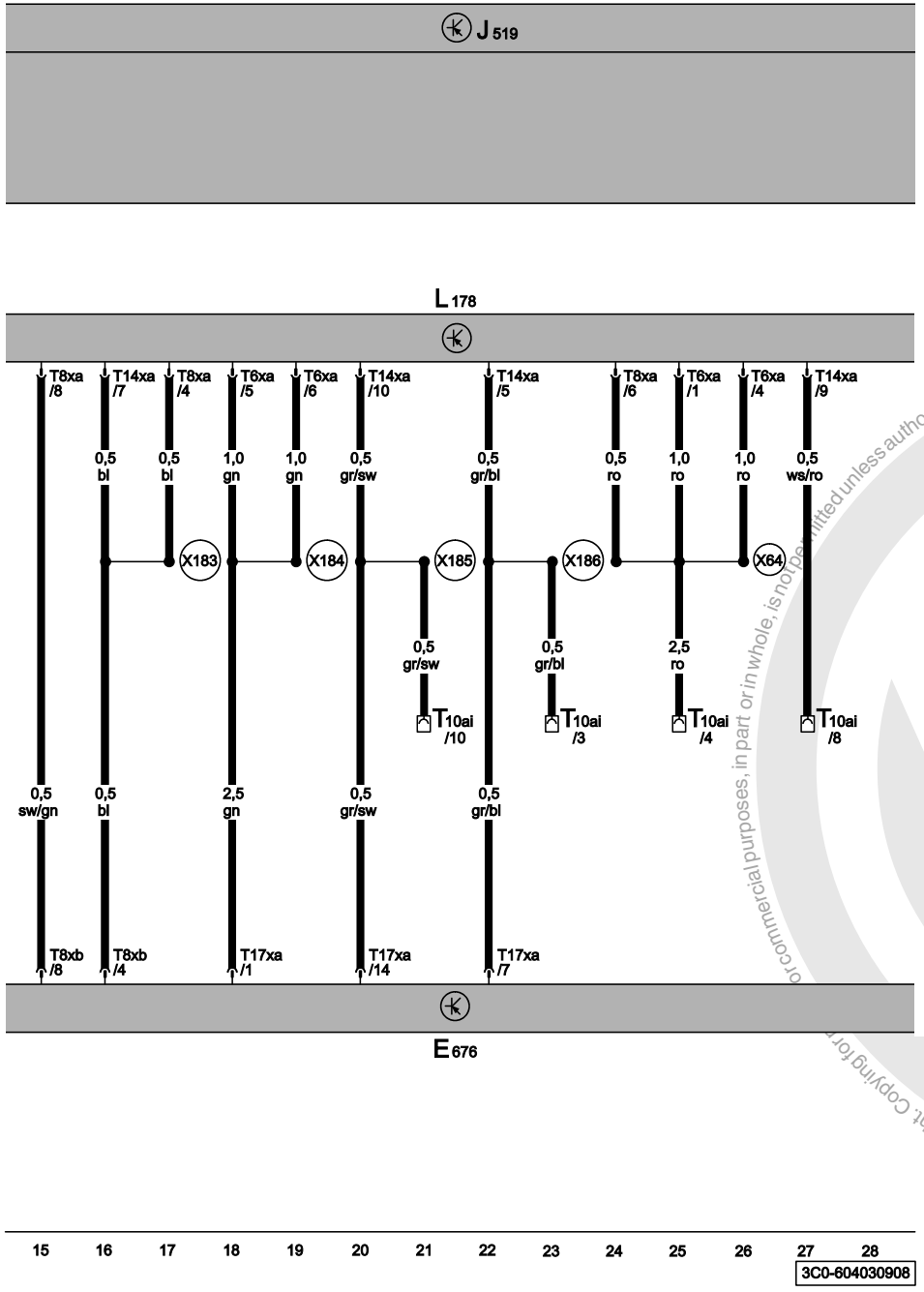
Special signal system operating unit, blue flashing light 1, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L140	Flashing light 1, blue
L178	Special signal system with light bar and lettering
T8xa	8-pin connector
T8xb	8-pin connector
T14xa	14-pin connector
T17xa	14-pin connector
*	From May 2007



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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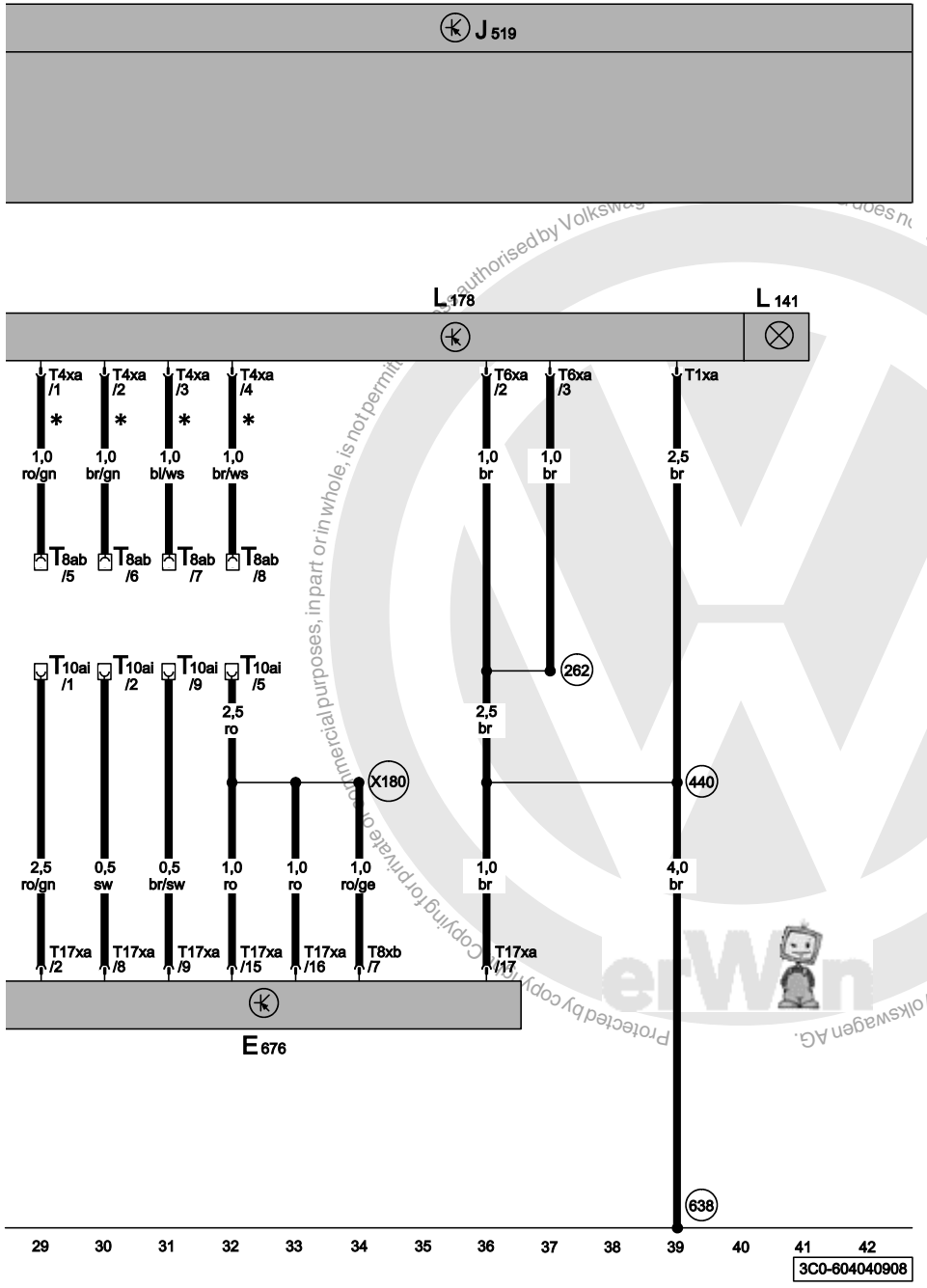


Special signal system operating unit, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L178	Special signal system with light bar and lettering
T6xa	6-pin connector
T8xa	8-pin connector
T8xb	8-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T14xa	14-pin connector
T17xa	17-pin connector
X64	Positive connection (30a), in wiring harness for tone sequence system
X183	Connection 2, in siren wiring harness
X184	Connection 3, in siren wiring harness
X185	Connection 4, in siren wiring harness
X186	Connection 5, in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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Special signal system operating unit, blue flashing light 2, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L141	Flashing light 2, blue
L178	Special signal system with light bar and lettering
T1xa	Single connector
T4xa	4-pin connector
T6xa	6-pin connector
T8ab	8-pin connector, special signals coupling point, right A-pillar
T8xb	8-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T17xa	17-pin connector
262	Earth connection, in siren wiring harness
440	Earth connection 1, in siren system wiring harness
638	Earth point, on right A-pillar
X180	Positive connection 5 (30a), in siren wiring harness
*	From May 2007

ws	=	white
sw	=	black
ro	=	red
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rs	=	pink

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Special signal system TOPas/OPAL analogue, with video safety surveillance (in-car video surveillance)

From May 2006

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

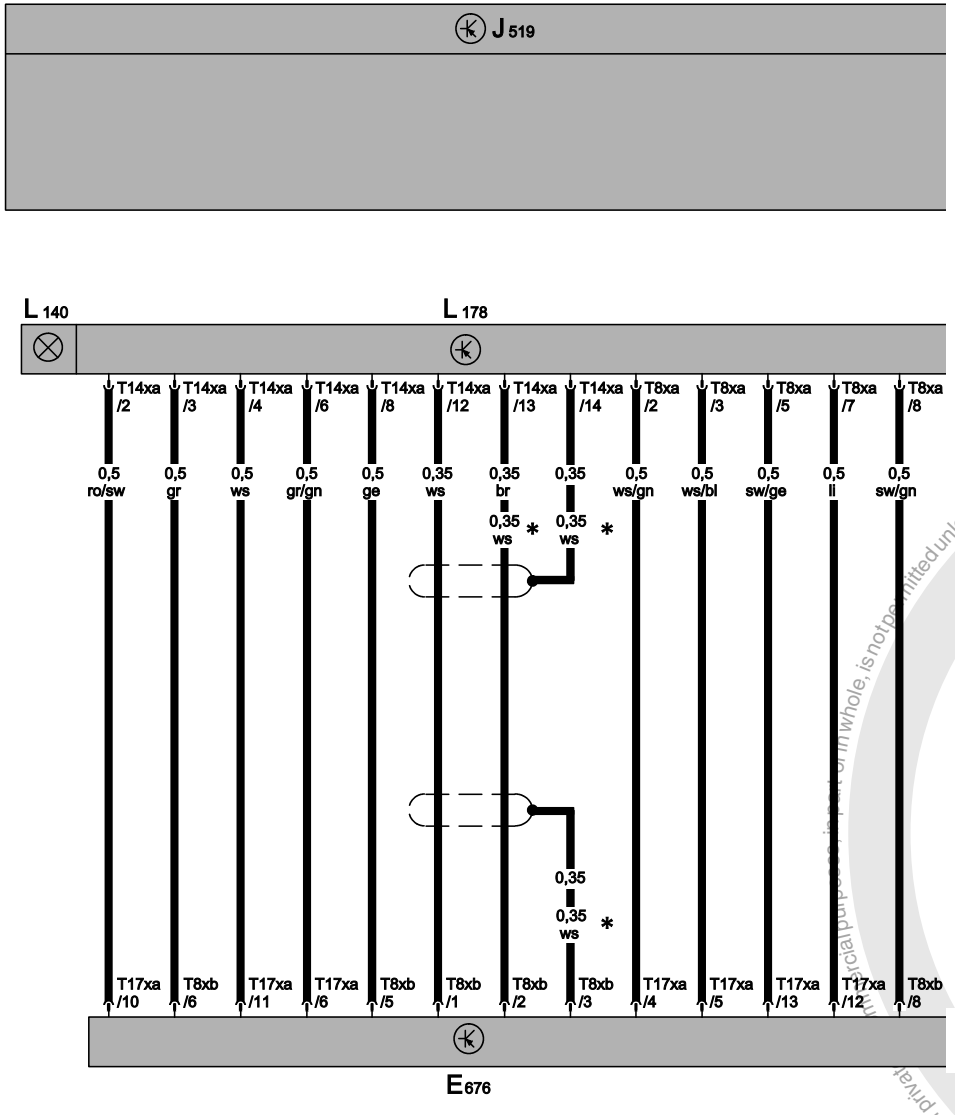
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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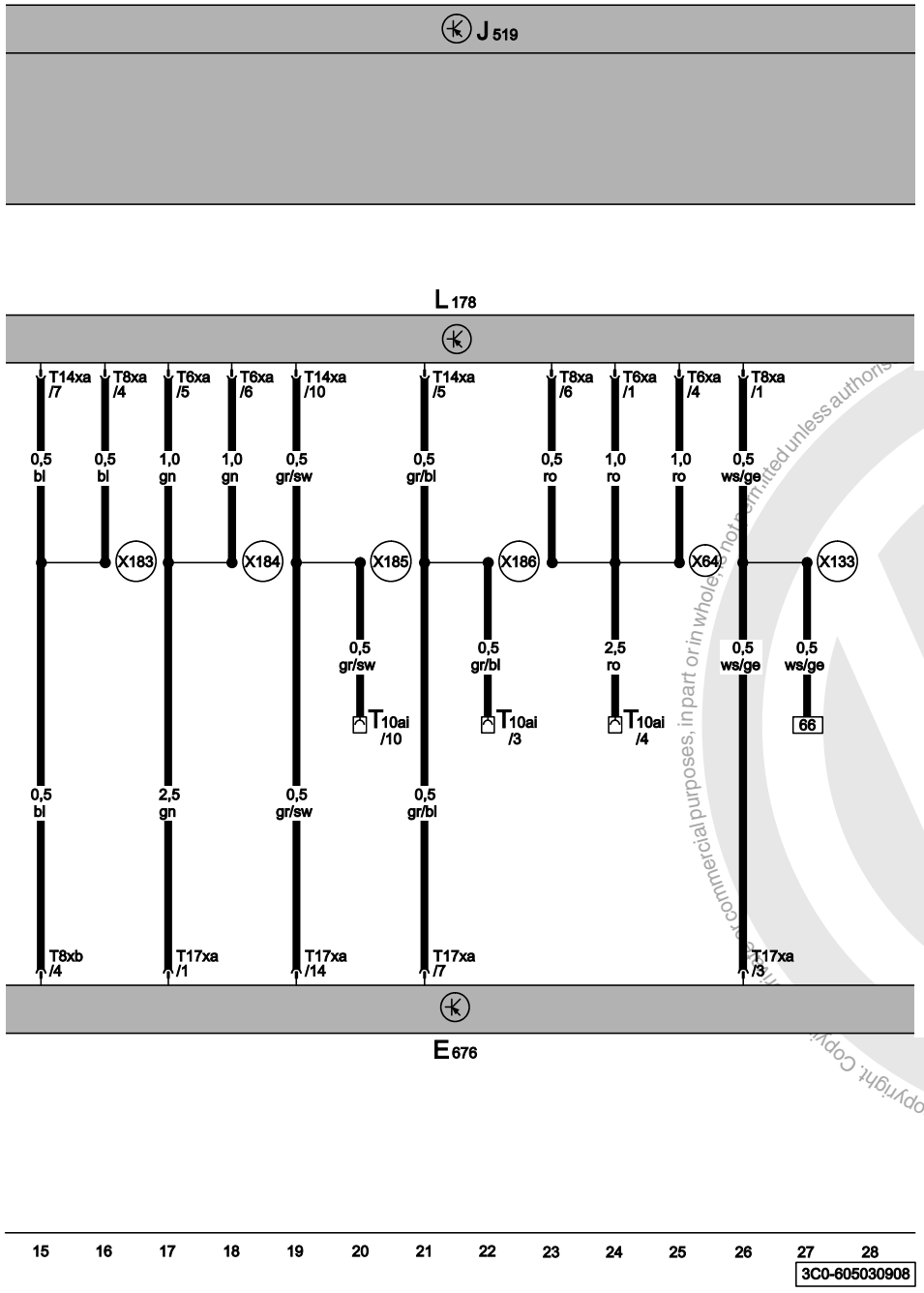


Special signal system operating unit, blue flashing light 1, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L140	Flashing light 1, blue
L178	Special signal system with light bar and lettering
T8xa	8-pin connector
T8xb	8-pin connector
T14xa	14-pin connector
T17xa	17-pin connector
*	From May 2007

ws	=	white
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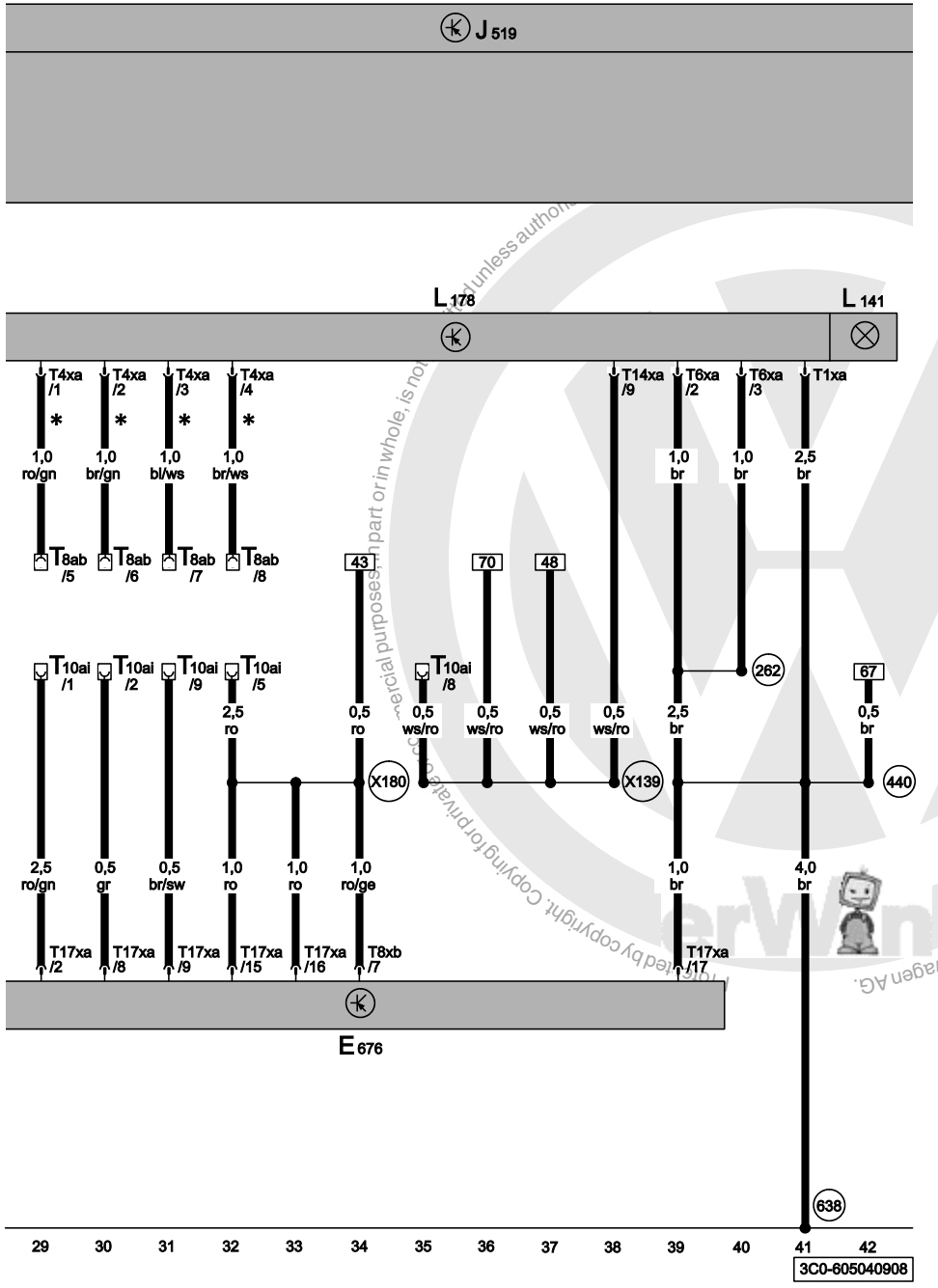


Special signal system operating unit, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L178	Special signal system with light bar and lettering
T6xa	6-pin connector
T8xa	8-pin connector
T8xb	8-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T14xa	14-pin connector
T17xa	17-pin connector
X64	Positive connection (30a), in wiring harness for tone sequence system
X133	Connection 6, in optional equipment wiring harness
X183	Connection 2, in siren wiring harness
X184	Connection 3, in siren wiring harness
X185	Connection 4, in siren wiring harness
X186	Connection 5, in siren wiring harness

ws	=	white
sw	=	black
ro	=	red
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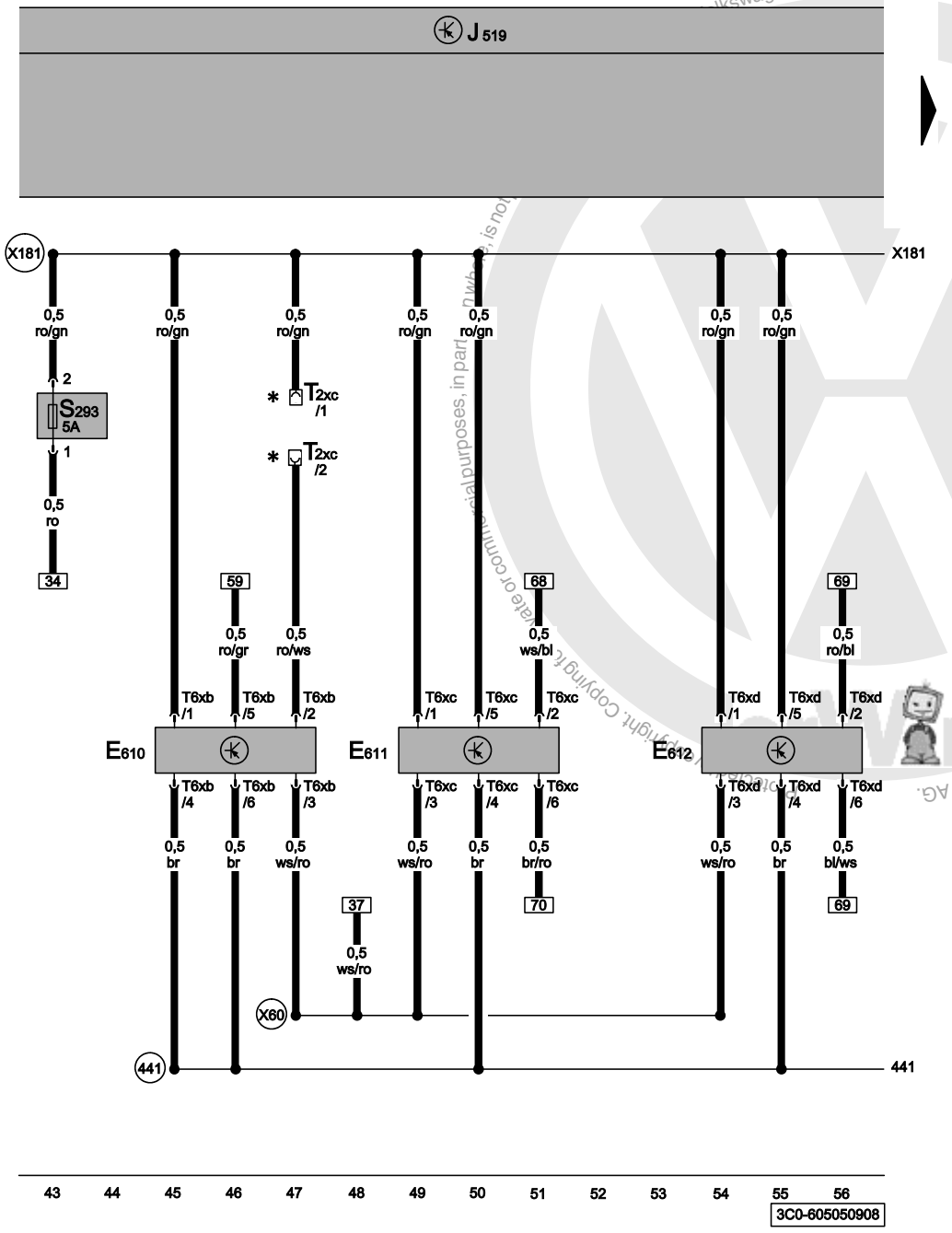


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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or = orange
rs = pink

Special signal system operating unit, blue flashing light 2, special signal system with light bar and lettering

E676	Special signal system operating unit
J519	Onboard supply control unit
L141	Flashing light 2, blue
L178	Special signal system with light bar and lettering
T1xa	Single connector
T4xa	4-pin connector
T6xa	6-pin connector
T8ab	8-pin connector, special signals coupling point, right A-pillar
T8xb	8-pin connector
T10ai	10-pin connector, coupling point for special signals, right A-pillar
T14xa	14-pin connector
T17xa	17-pin connector
262	Earth connection, in siren wiring harness
440	Earth connection 1, in siren system wiring harness
638	Earth point, on right A-pillar
X139	Positive connection 1 (15a), in siren wiring harness
X180	Positive connection 5 (30a), in siren wiring harness
*	From May 2007

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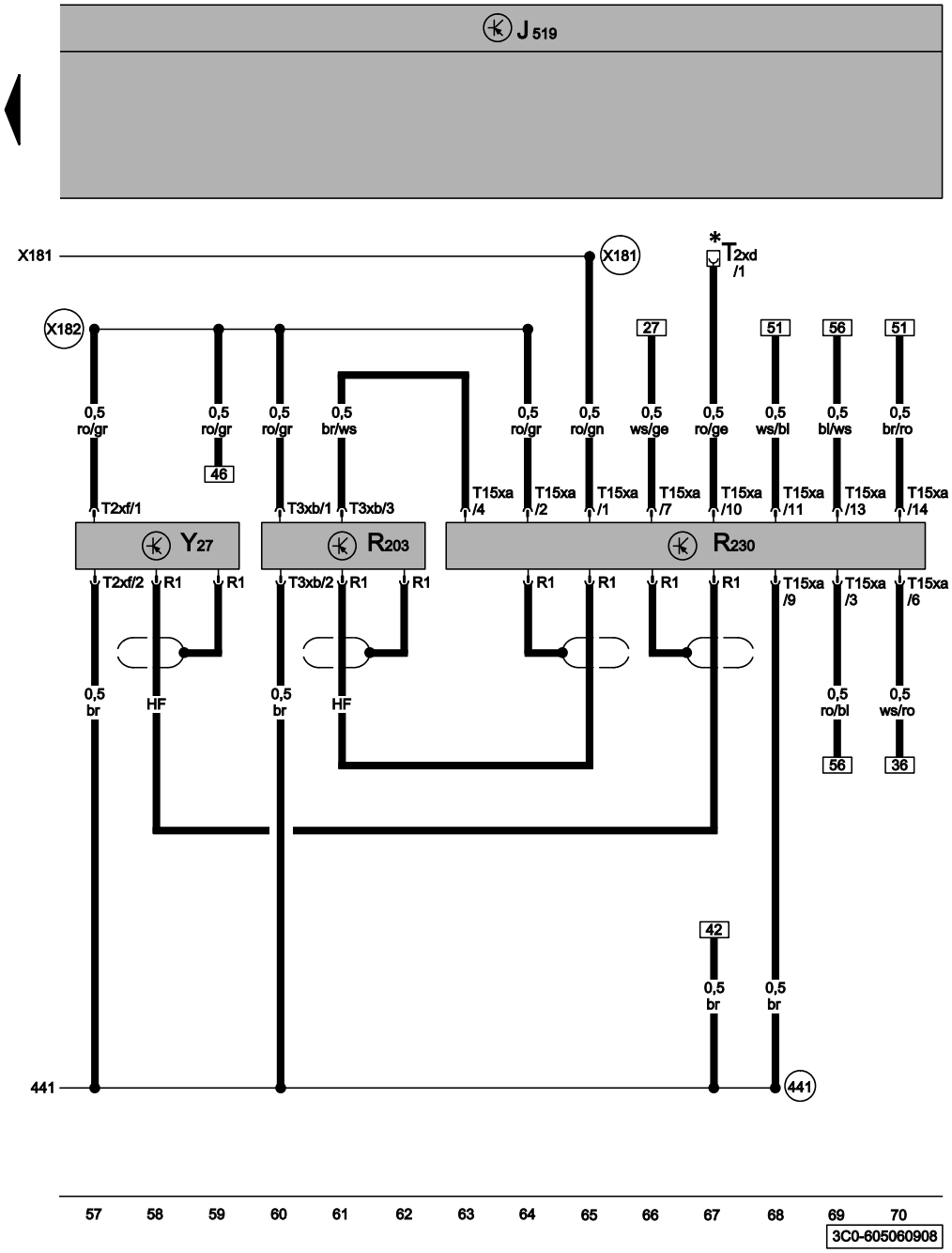


Button 1 for in-car video surveillance, button 2 for in-car video surveillance, button 3 for in-car video surveillance, special vehicle fuse 3

E610	Button 1 for in-car video surveillance
E611	Button 2 for in-car video surveillance
E612	Button 3 for in-car video surveillance
J519	Onboard supply control unit
S293	Special vehicle fuse 3
T2xc	2-pin connector, coding connector
T6xb	6-pin connector
T6xc	6-pin connector
T6xd	6-pin connector
441	Earth connection 2, in siren system wiring harness
X60	Positive connection 2 (15a), in optional equipment wiring harness
X181	Positive connection 6 (30a), in siren wiring harness
*	Connector discontinued from September 2008

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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Camera for in-car video surveillance, data storage unit for in-car video surveillance, display unit for in-car video surveillance

J519	Onboard supply control unit
R1	Aerial connection
R203	Camera for in-car video surveillance
R230	Data storage unit for in-car video surveillance
T2xd	2-pin connector, coding connector
T2xf	2-pin connector
T3xb	3-pin connector
T15xa	15-pin connector
Y27	Display unit for in-car video surveillance
441	Earth connection 2, in siren system wiring harness
X181	Positive connection 6 (30a), in siren wiring harness
X182	Connection (87), in siren wiring harness
*	Connector discontinued from September 2008

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2.0 l/105 kW - turbo diesel with common rail, engine code CBAC

⇒ **Selective catalytic reduction**

From November 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

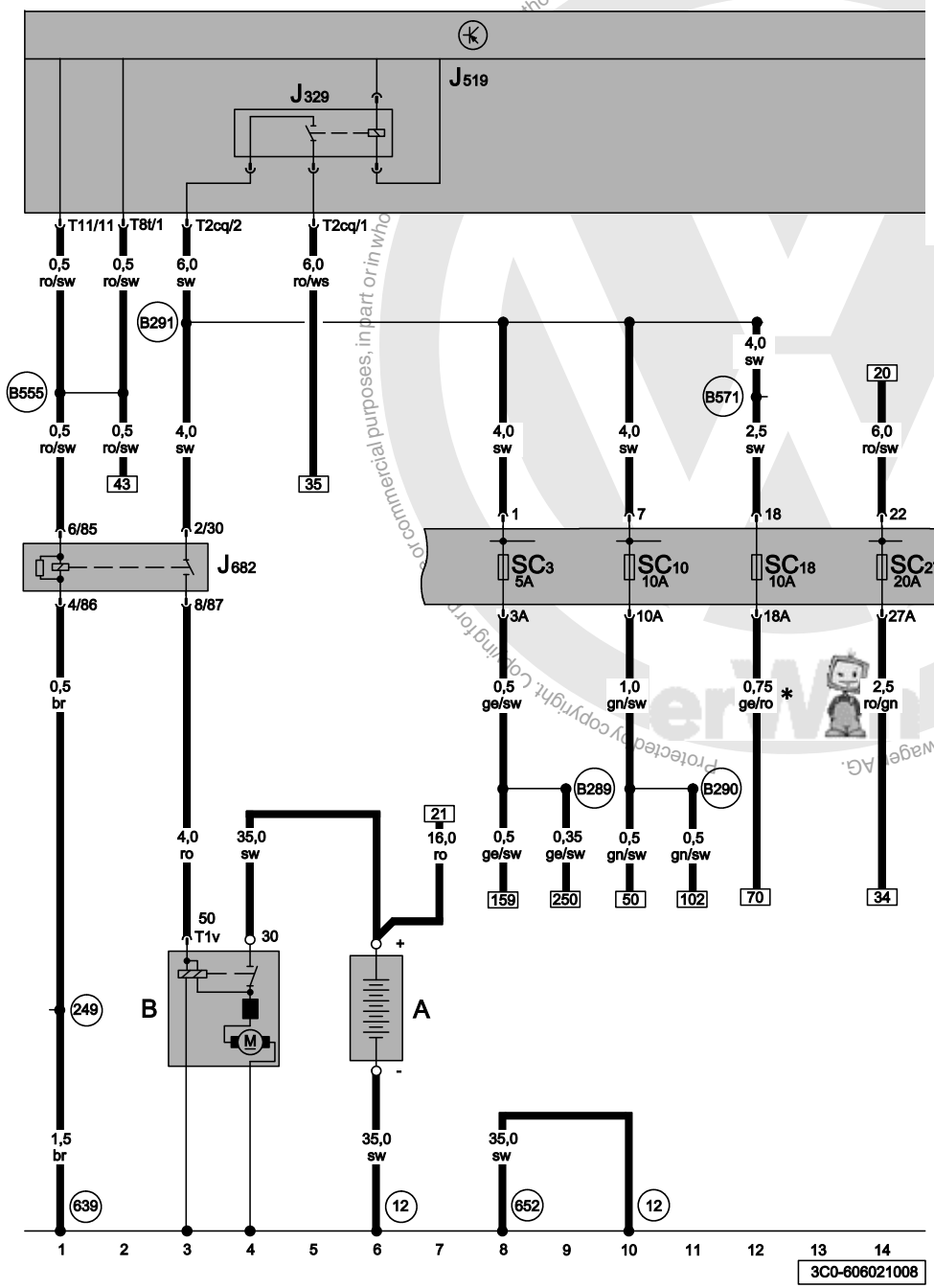
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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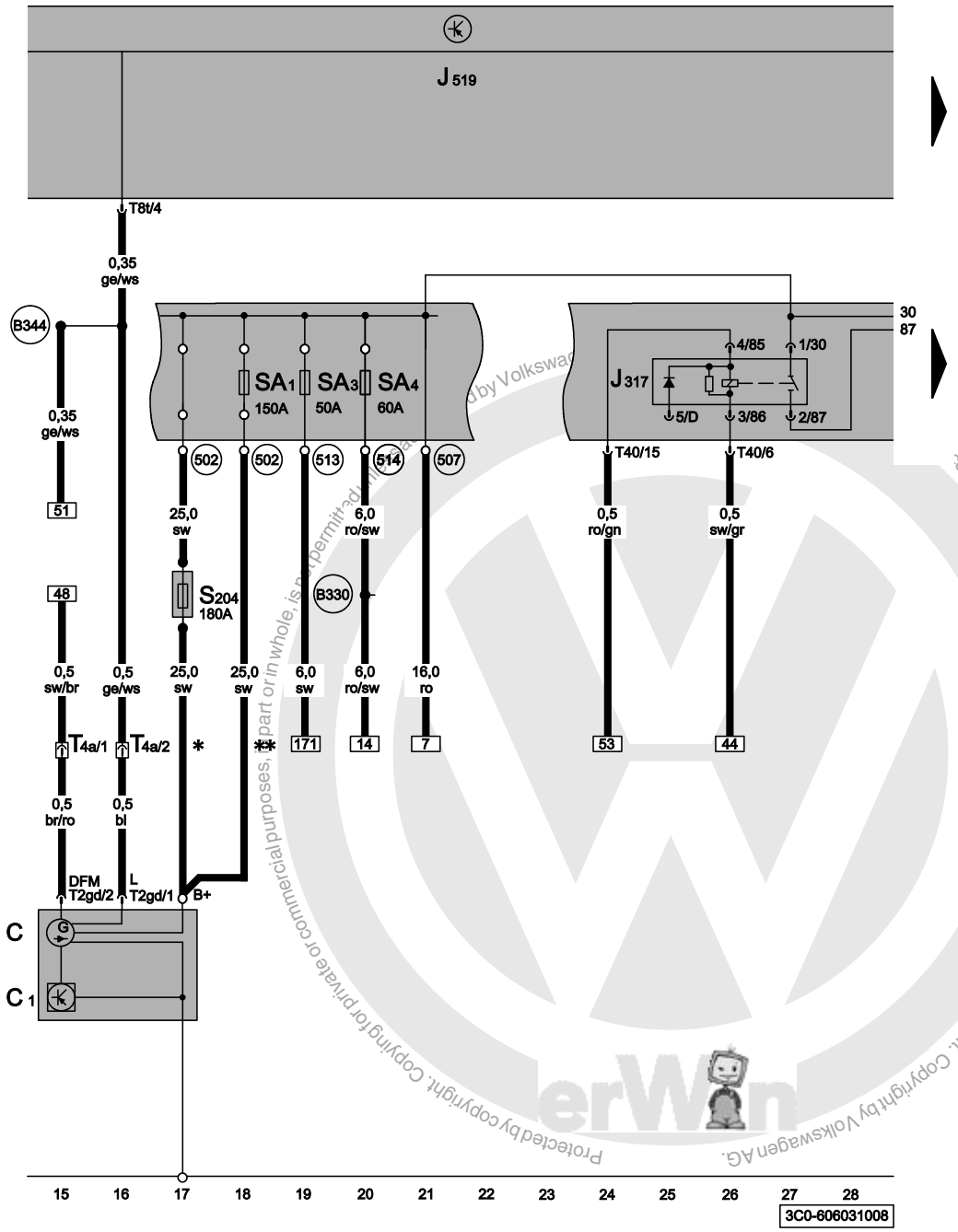


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, on relay carrier under left dash panel (433)
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
652	Earth point, engine and gearbox earth
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
*	Only models for cold countries

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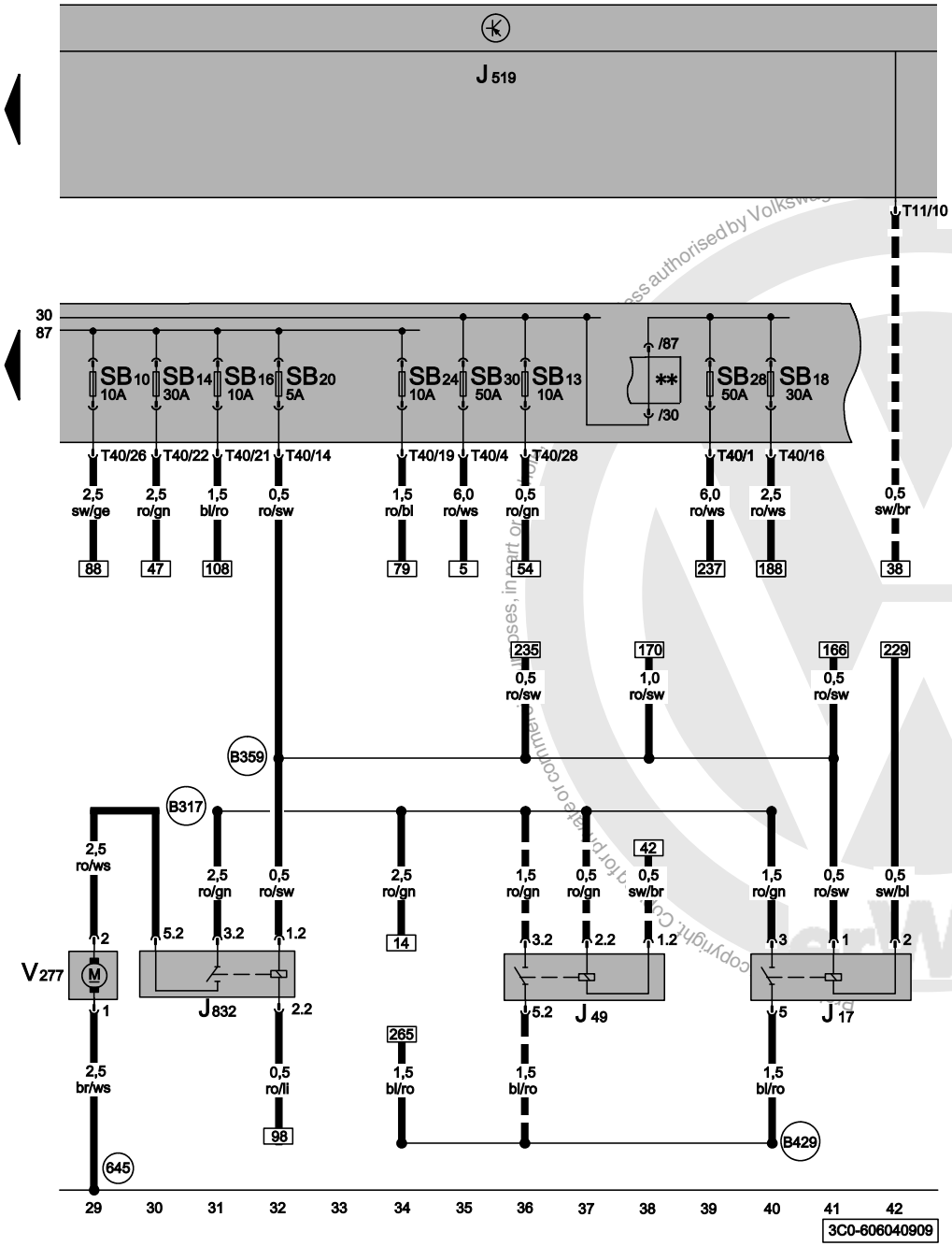


Alternator, terminal 30 voltage supply relay, fuses

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B330	Connection 16 (30a), in main wiring harness
B344	Connection 1 (61), in main wiring harness
*	Only models with 180 A alternator
**	Only models with 140 A alternator

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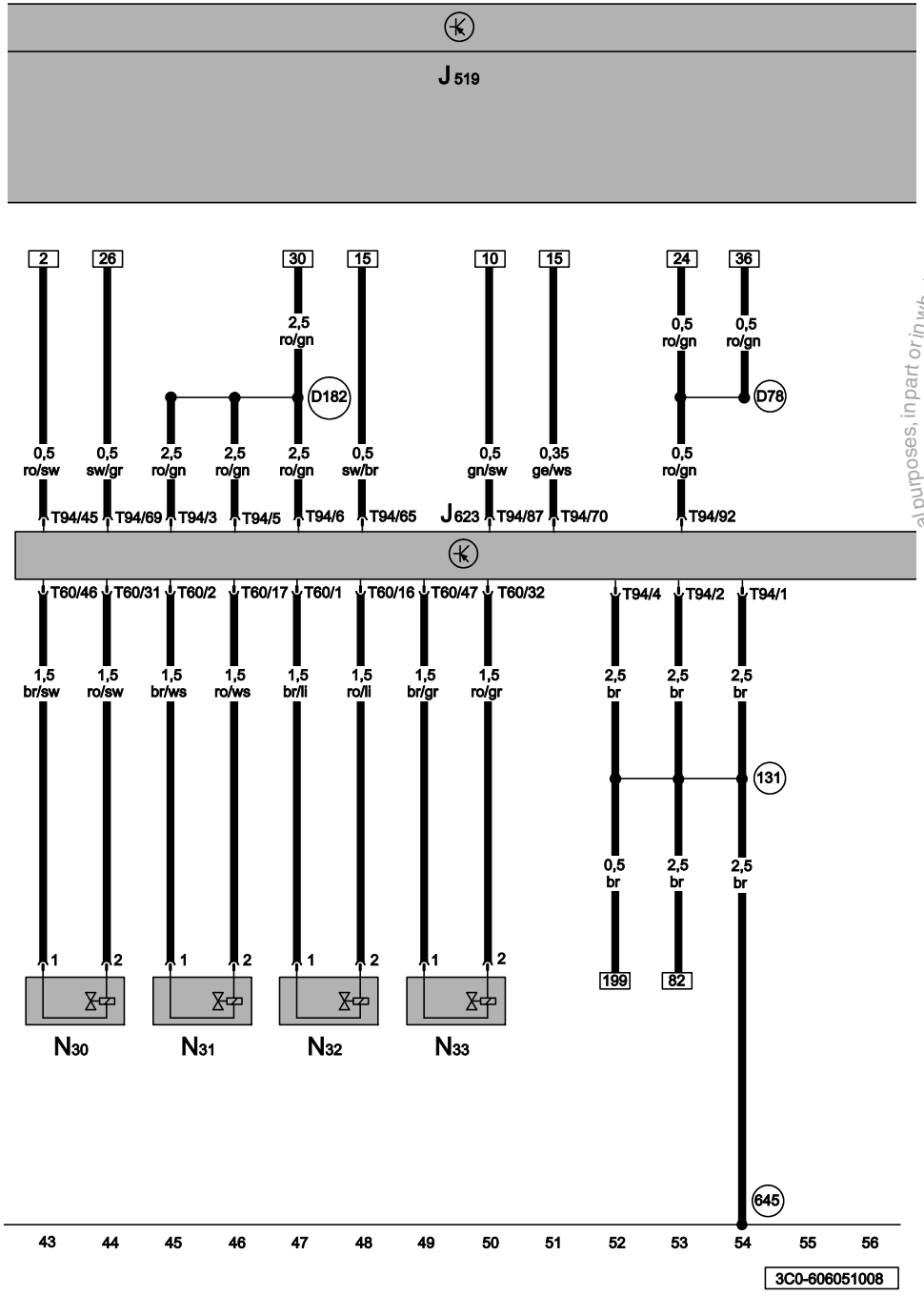


Fuel pump relay, electric fuel pump 2 relay, auxiliary fuel pump relay, fuel pump 2, fuses

J17	Fuel pump relay, on relay carrier on left under dash panel (449)
J49	Electric fuel pump 2 relay, on relay carrier on left under dash panel (449)
J519	Onboard supply control unit
J832	Auxiliary fuel pump relay
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB18	Fuse 18 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T11	11-pin connector
T40	40-pin connector
V277	Fuel pump 2
645	Earth point 1, on bulkhead
B317	Connection 3 (30a), in main wiring harness
B359	Connection 10 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
**	Push-in bridge on relay slot R1
---	Only models with supplementary coolant heater

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sw	=	black
ro	=	red
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gn	=	green
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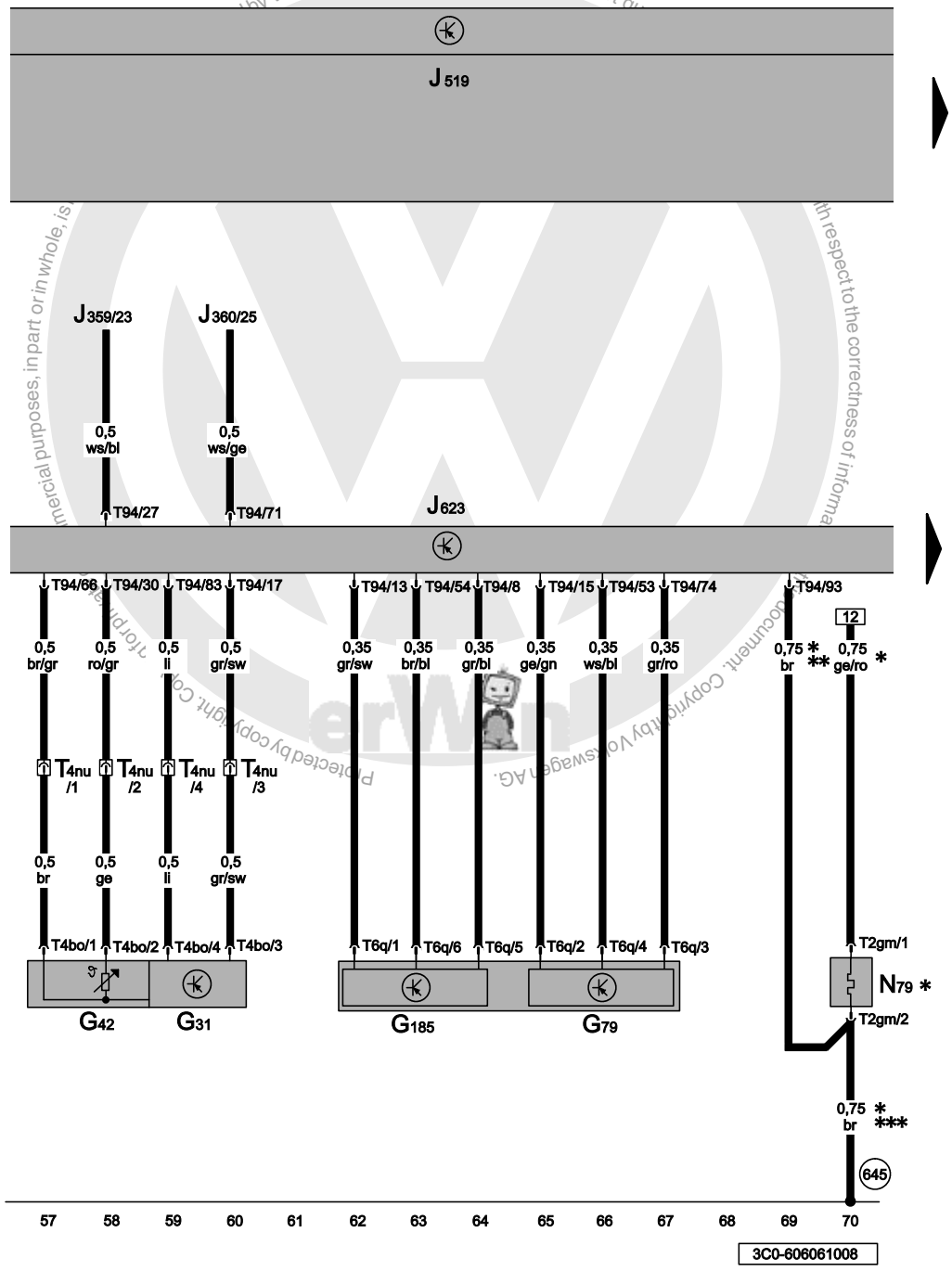


Engine control unit, injectors for cylinders 1-4

J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T60	60-pin connector
T94	94-pin connector
131	Earth connection 2, in engine compartment wiring harness
645	Earth point 1, on bulkhead
D78	Positive connection 1 (30a), in engine compartment wiring harness
D182	Connection 3 (87a), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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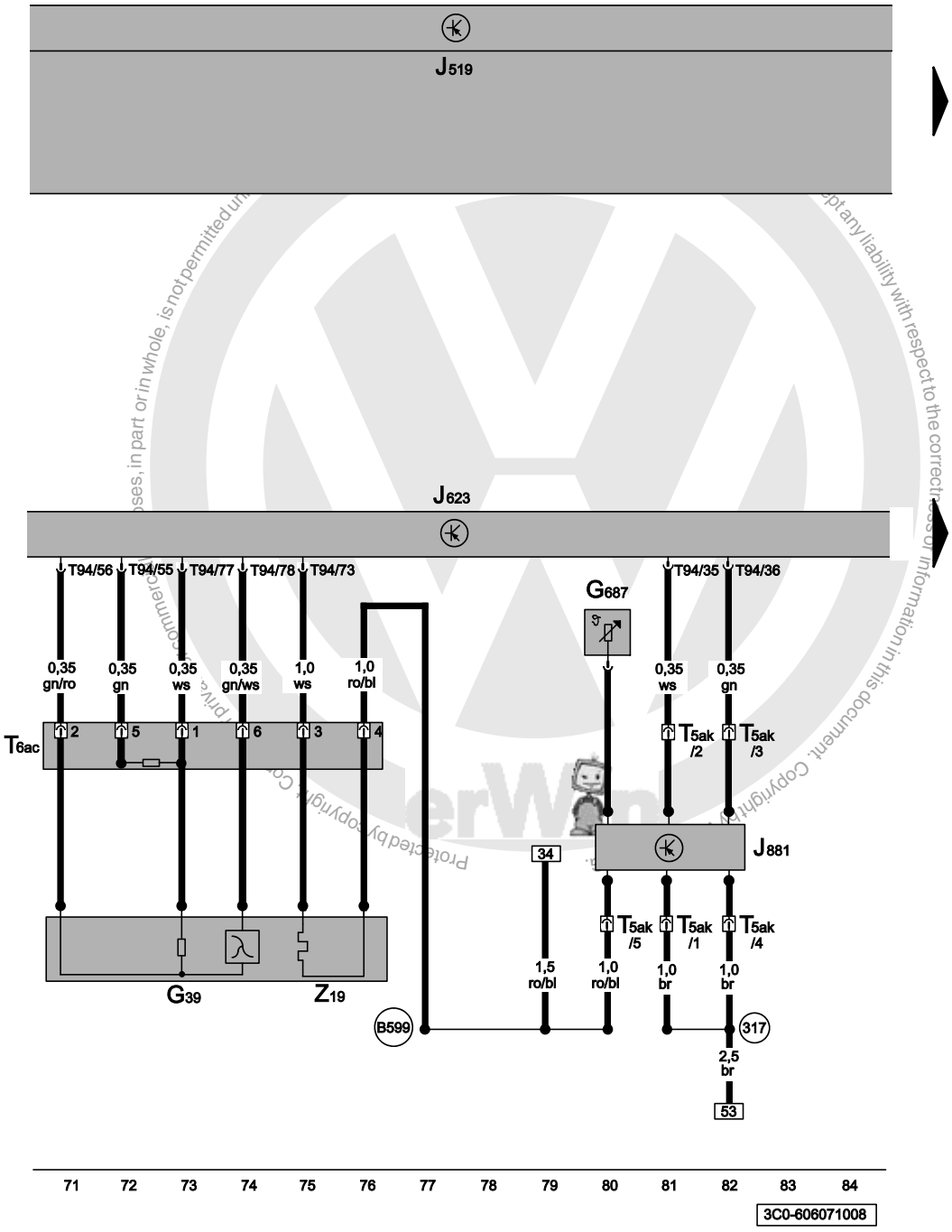
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Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender, crankcase breather heater element

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J359	Low heat output relay
J360	High heat output relay
J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
T2gm	2-pin connector, black
T4bo	4-pin connector
T4nu	4-pin connector, black
T6q	6-pin connector
T94	94-pin connector
645	Earth point 1, on bulkhead
*	Only models for cold countries
**	Applicable from May 2009
***	Applicable to April 2009

ws	=	white
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gn	=	green
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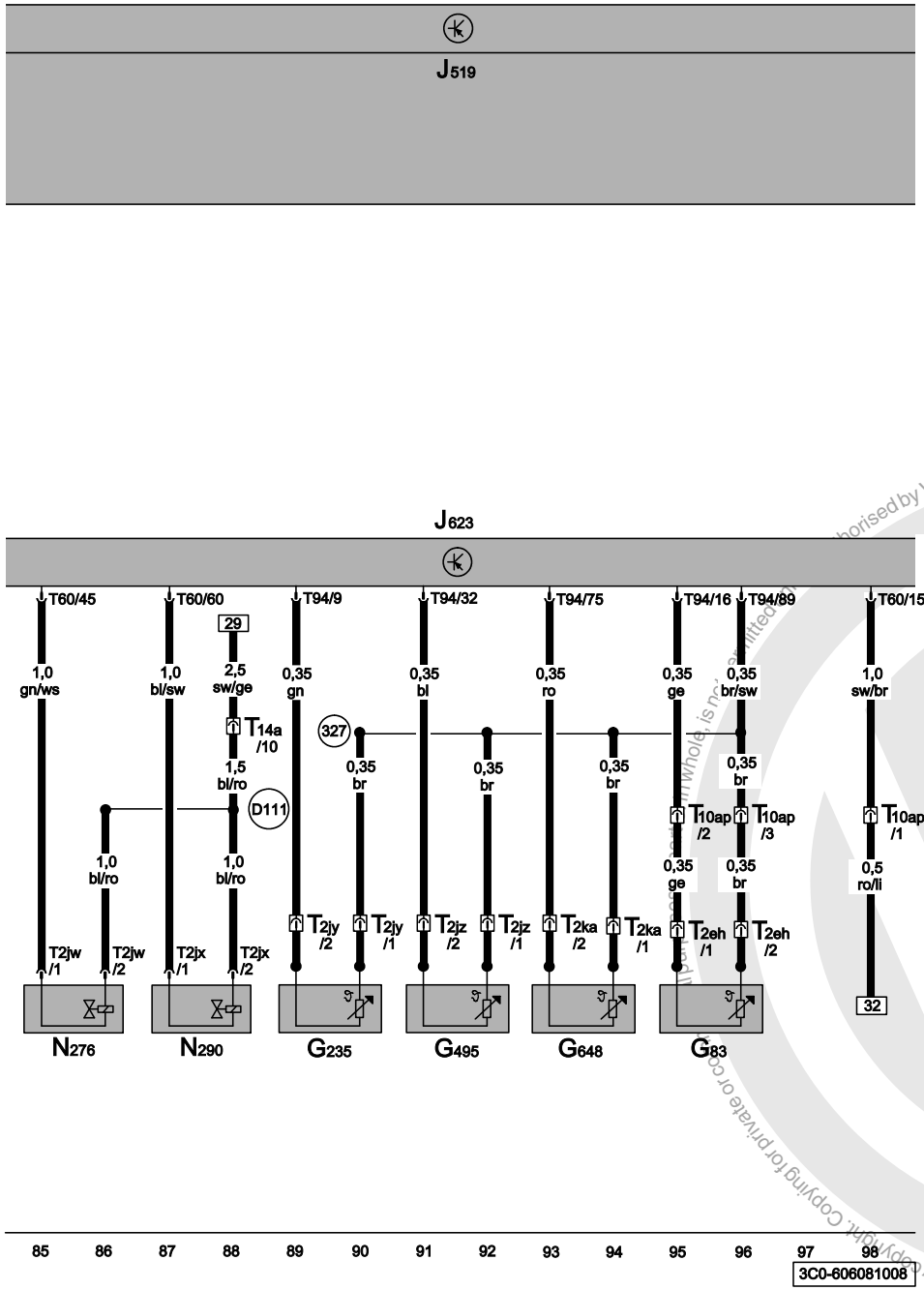


Engine control unit, Lambda probe, NOx sender control unit, NOx sender

G39	Lambda probe
G295	NOx sender
J519	Onboard supply control unit
J583	NOx sender control unit
J623	Engine control unit
T5ak	5-pin connector
T6ac	6-pin connector, black, coupling point for Lambda probe
T94	94-pin connector
Z19	Lambda probe heater
317	Earth connection 7, in engine compartment wiring harness
B599	Positive connection 3 (87a), in interior wiring harness

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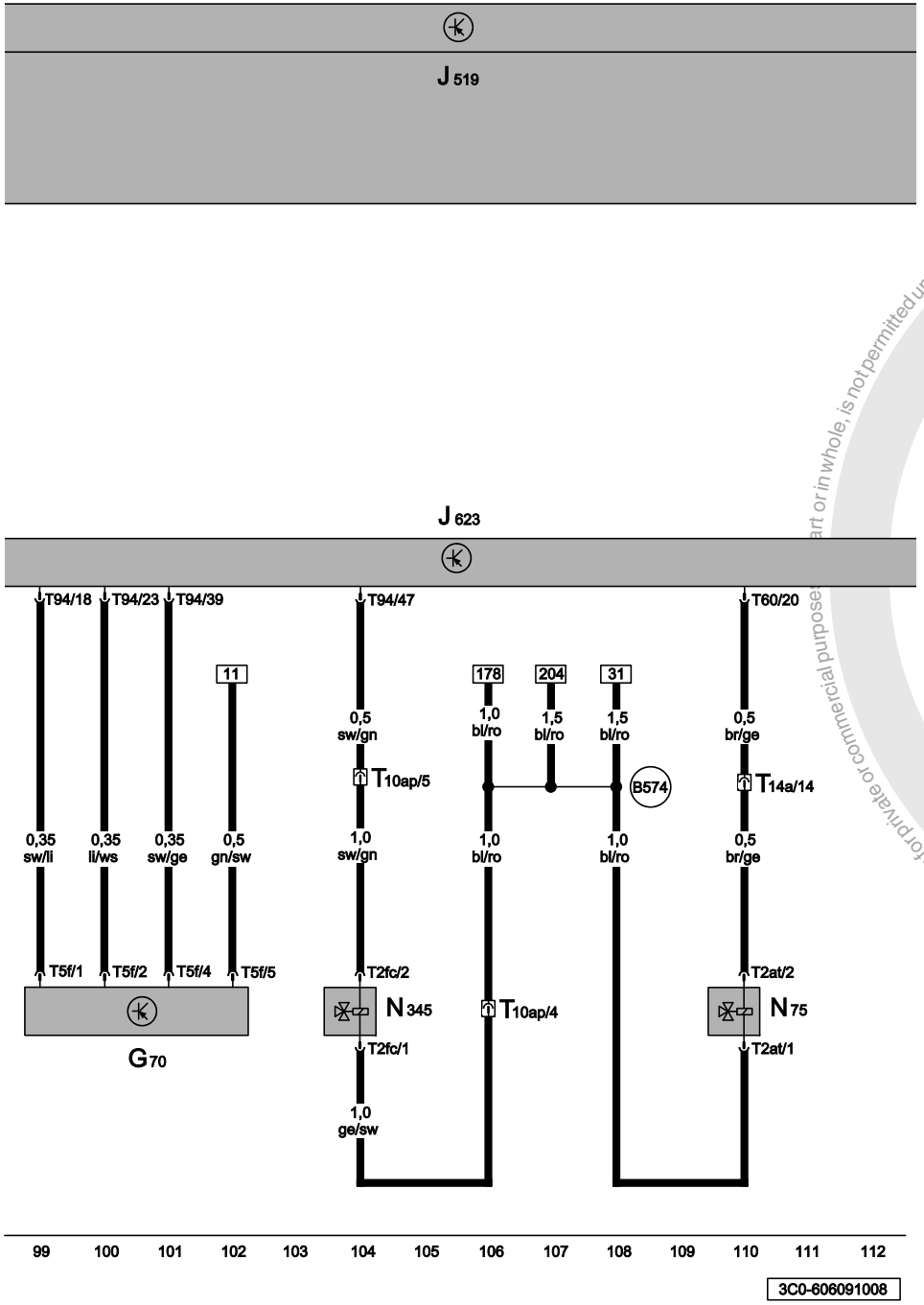


Engine control unit, exhaust gas temperature sender, radiator outlet coolant temperature sender, fuel pressure regulating valve, fuel metering valve

G83	Radiator outlet coolant temperature sender
G235	Exhaust temperature sender 1
G495	Exhaust temperature sender 3
G648	Exhaust temperature sender 4
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
N276	Fuel pressure regulating valve
N290	Fuel metering valve
T2eh	2-pin connector
T2jw	2-pin connector
T2jx	2-pin connector
T2jy	2-pin connector, black
T2jz	2-pin connector, brown
T2ka	2-pin connector, brown
T10ap	10-pin connector, near left headlight
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
327	Earth connection (sender earth), in engine compartment wiring harness
D111	Connection 9, in engine compartment wiring harness

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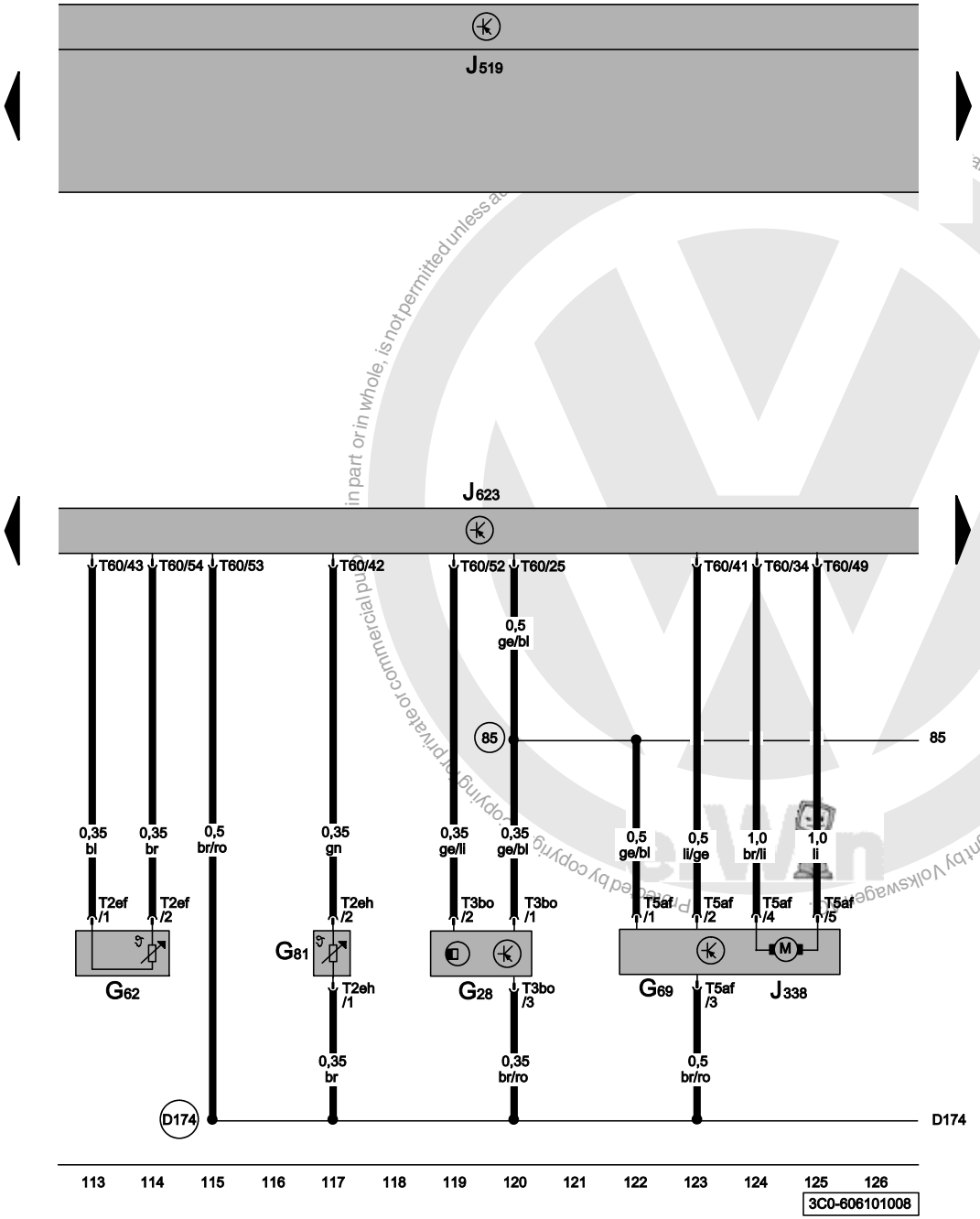


Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler changeover valve

G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler changeover valve
T2at	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T10ap	10-pin connector, near left headlight
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness

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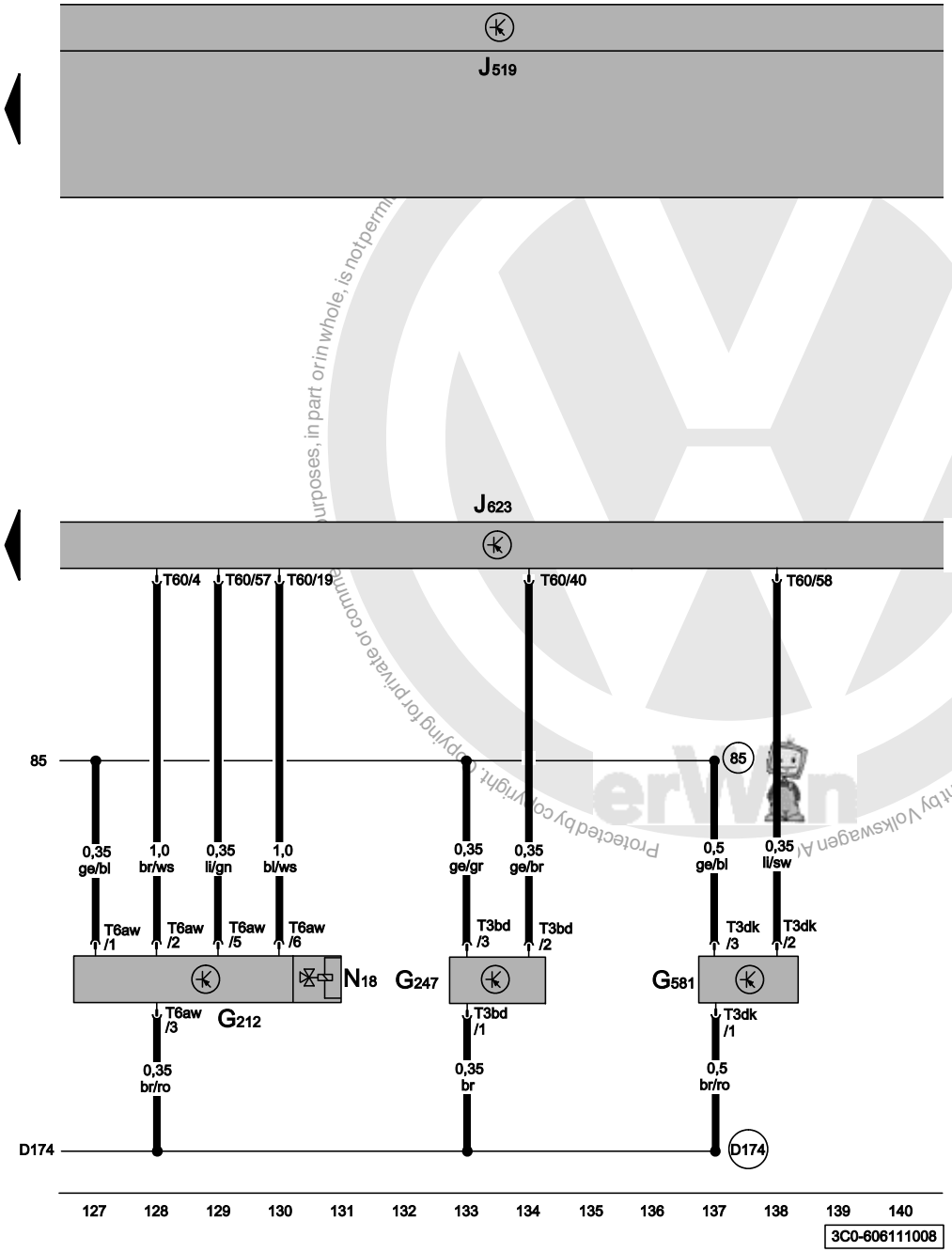


Engine control unit, throttle valve module, throttle valve potentiometer, fuel temperature sender, coolant temperature sender, engine speed sender

G28	Engine speed sender
G69	Throttle valve potentiometer
G62	Coolant temperature sender
G81	Fuel temperature sender
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
T2ef	2-pin connector
T2eh	2-pin connector
T3bo	3-pin connector
T5af	5-pin connector
T60	60-pin connector
85	Earth connection 1, in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

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sw	=	black
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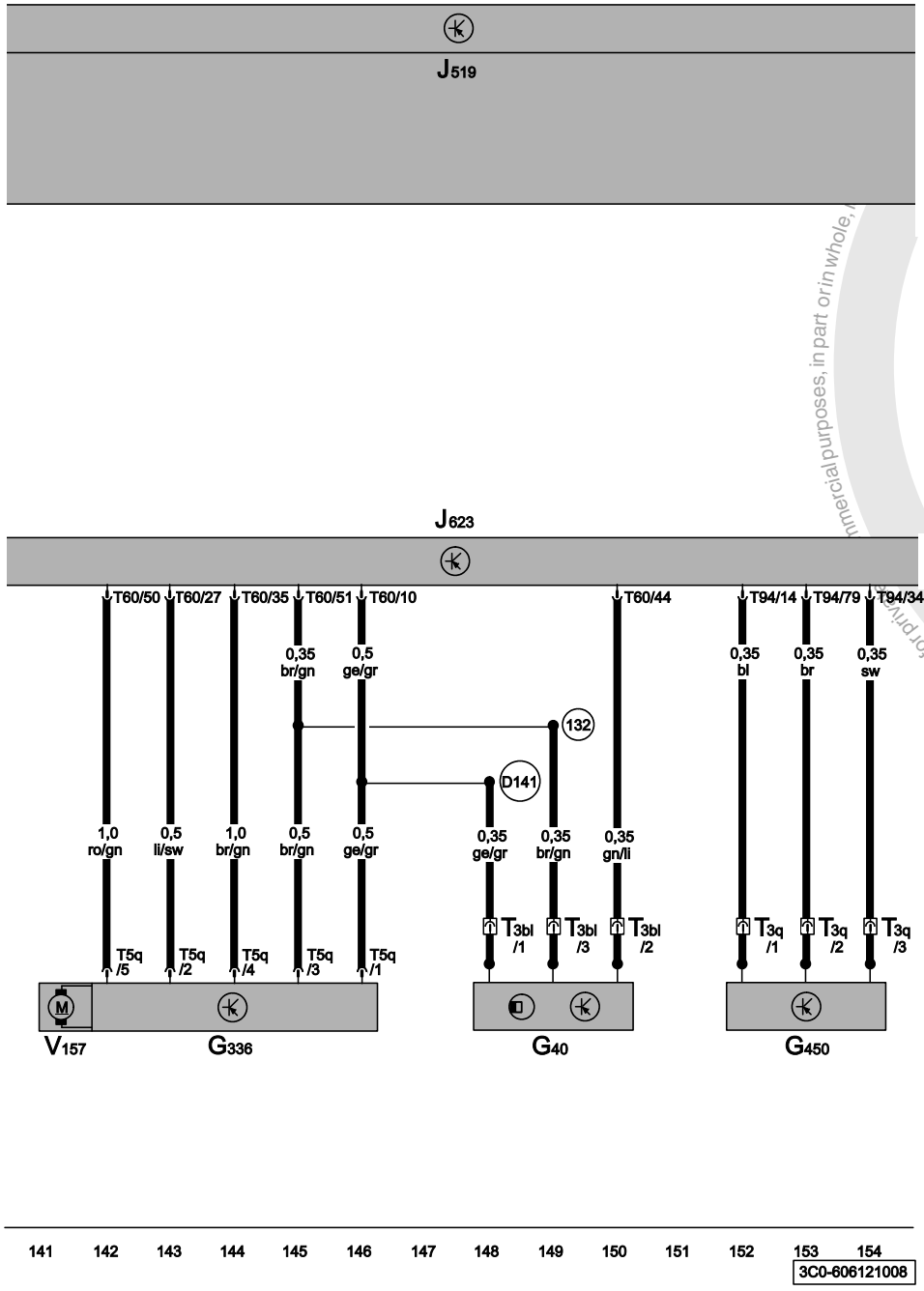


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Engine control unit, exhaust gas recirculation valve, exhaust gas recirculation potentiometer, position sender for charge pressure positioner

G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
G581	Position sender for charge pressure positioner
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
N18	Exhaust gas recirculation valve
T3bd	3-pin connector
T3dk	3-pin connector
T6aw	6-pin connector
T60	60-pin connector
85	Earth connection 1, in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

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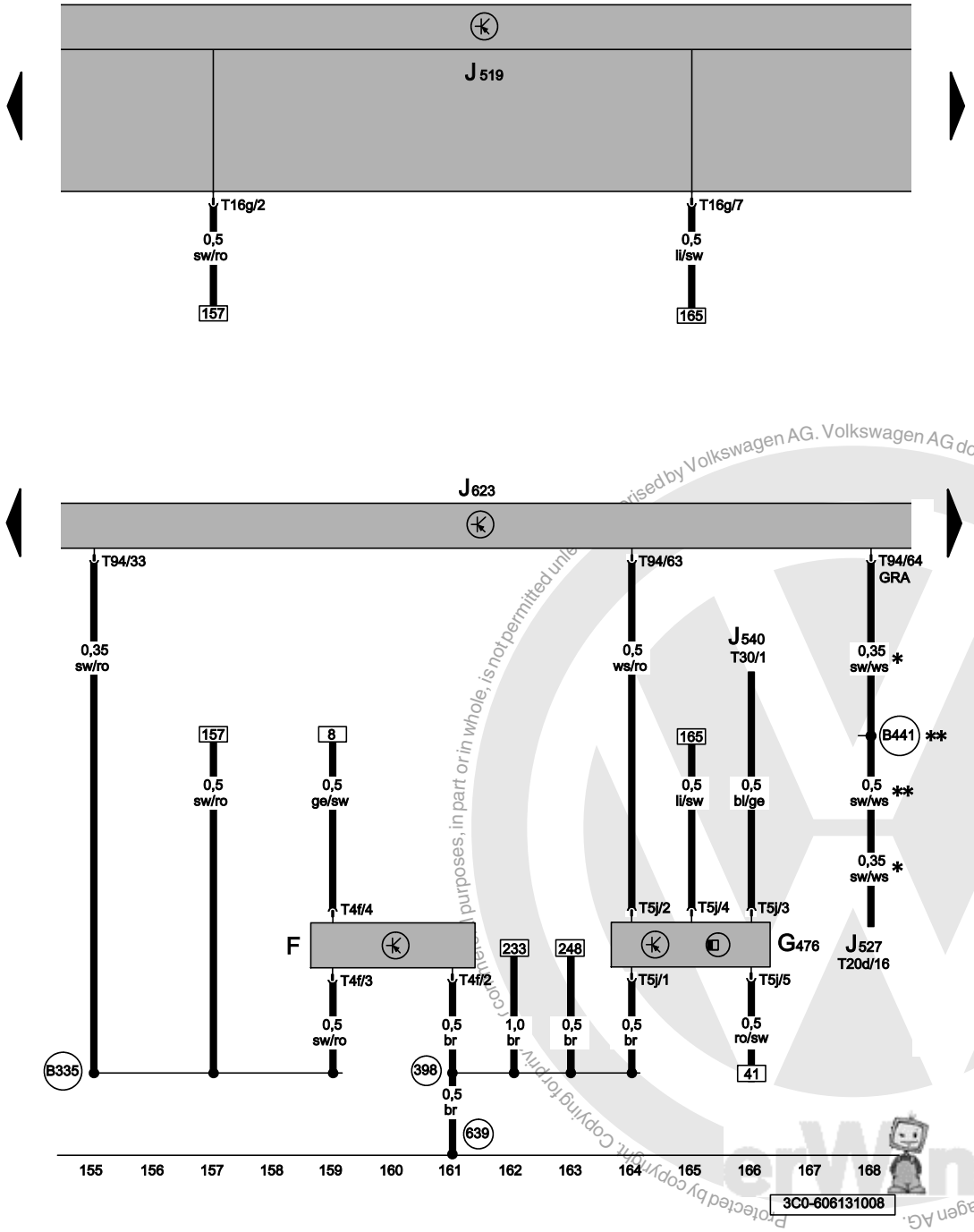


Engine control unit, intake manifold flap potentiometer, intake manifold flap motor, Hall sender, exhaust gas pressure sensor 1

G40	Hall sender
G336	Intake manifold flap potentiometer
G450	Exhaust gas pressure sensor 1
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
T3q	3-pin connector
T3bl	3-pin connector, grey
T5q	5-pin connector
T60	60-pin connector
T94	94-pin connector
V157	Intake manifold flap motor
132	Earth connection 3, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness

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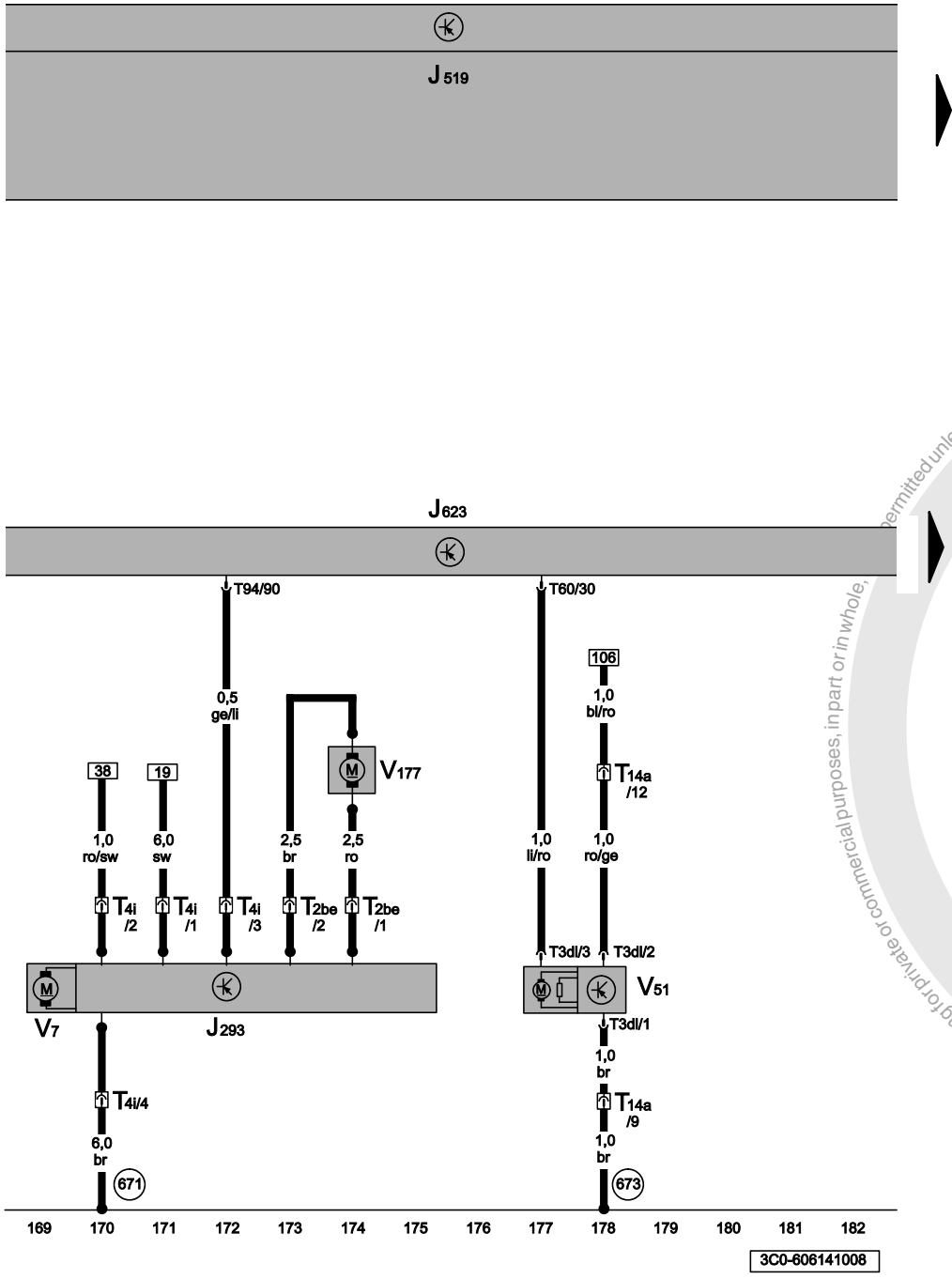


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Engine control unit, clutch position sender, brake light switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector, black
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with CCS
**	Only models with adaptive cruise control

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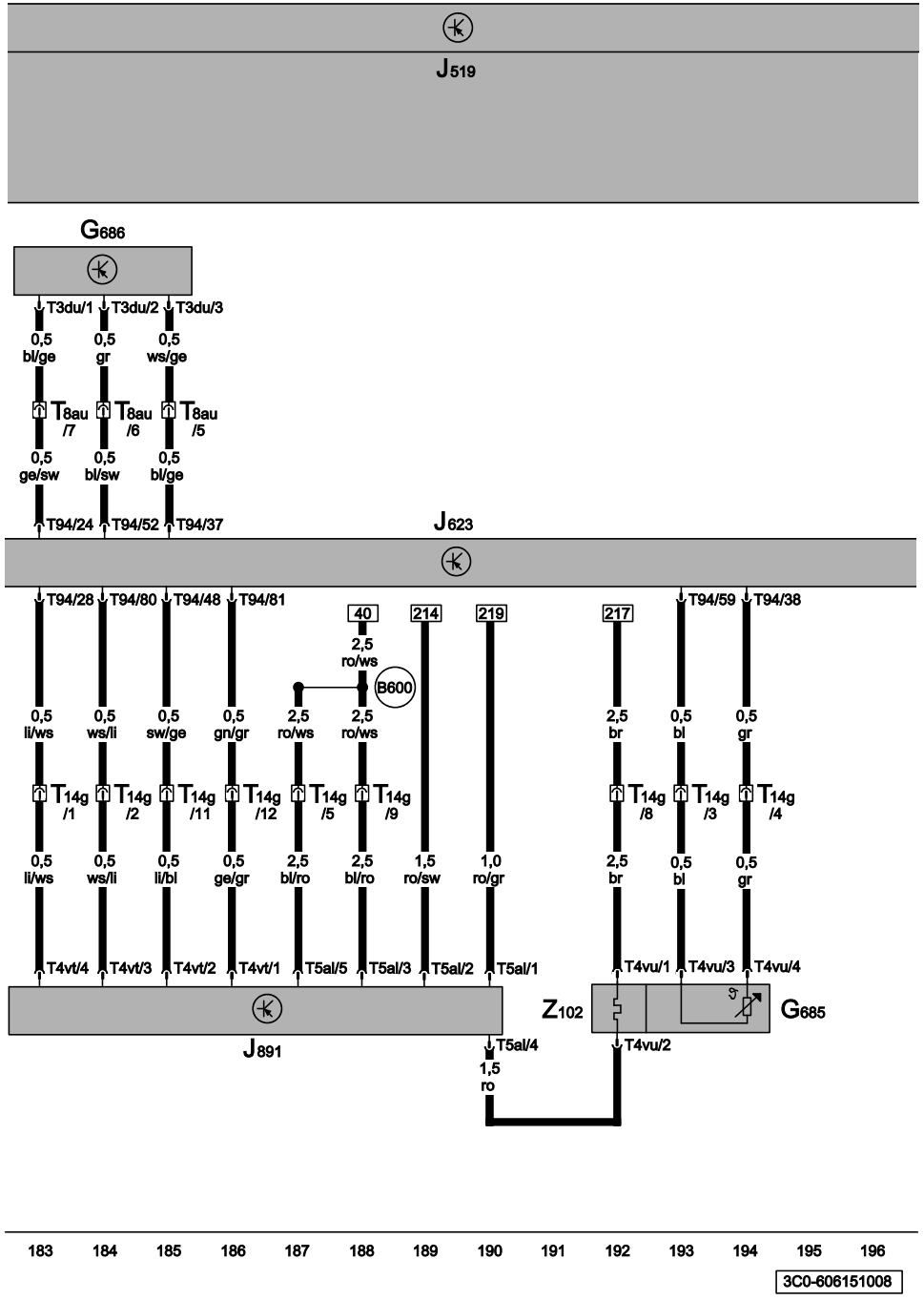


Engine control unit, radiator fan control unit, radiator fan, continued coolant circulation pump

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
T2be	2-pin connector, on lock carrier
T3dl	3-pin connector
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V51	Continued coolant circulation pump
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member

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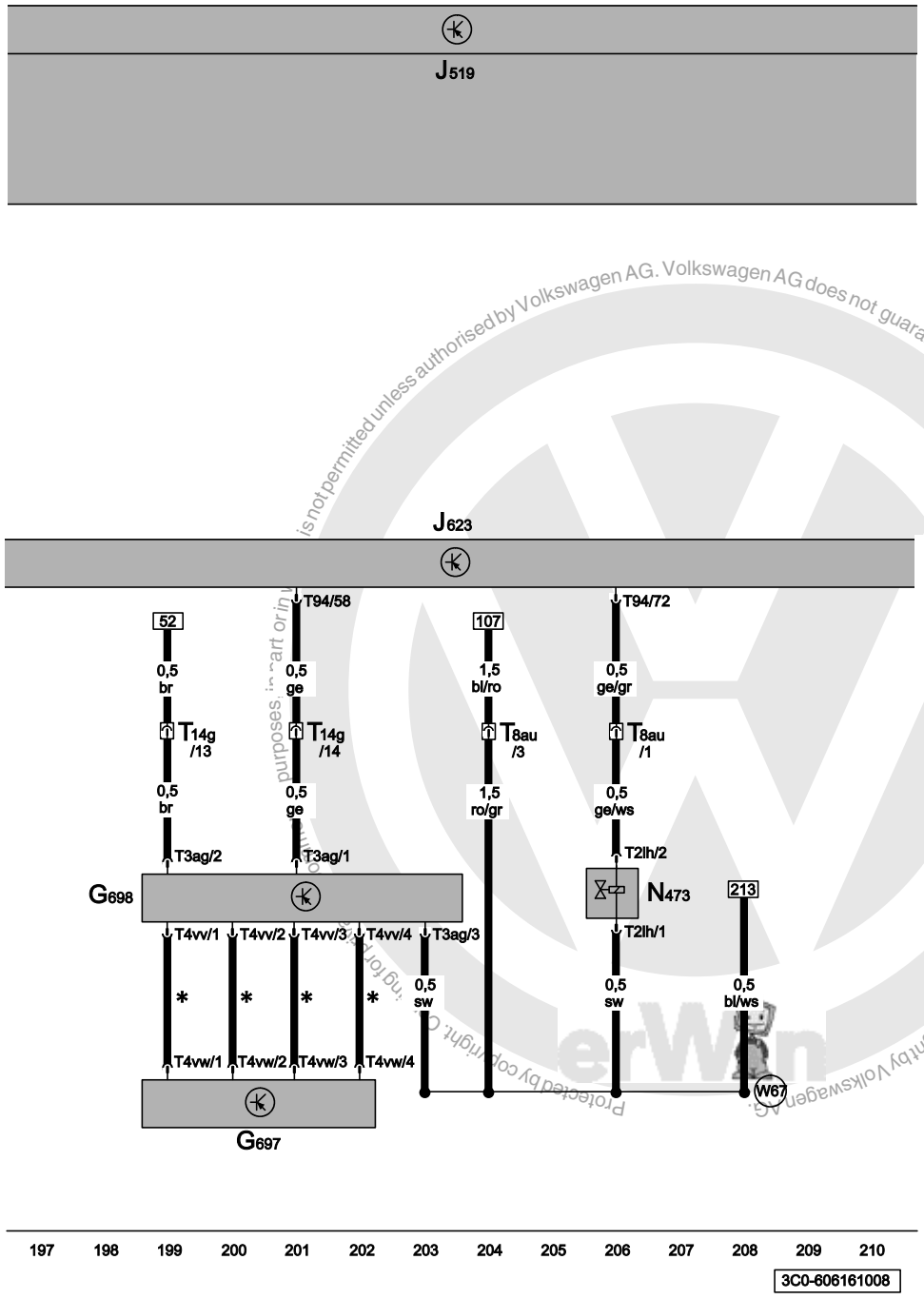


Engine control unit, reducing agent temperature sender, pressure sender for reducing agent metering system, control unit for reducing agent heater, heater for reducing agent reservoir

G685	Reducing agent temperature sender
G686	Pressure sender for reducing agent metering system
J519	Onboard supply control unit
J623	Engine control unit
J891	Control unit for reducing agent heater
T3du	3-pin connector
T4vt	4-pin connector
T4vu	4-pin connector
T5al	5-pin connector
T8au	8-pin connector, coupling point 1 in luggage compartment floor
T14g	14-pin connector, coupling point 1 in luggage compartment floor
T94	94-pin connector
Z102	Heater for reducing agent reservoir
(B600)	Positive connection 4 (87a), in interior wiring harness

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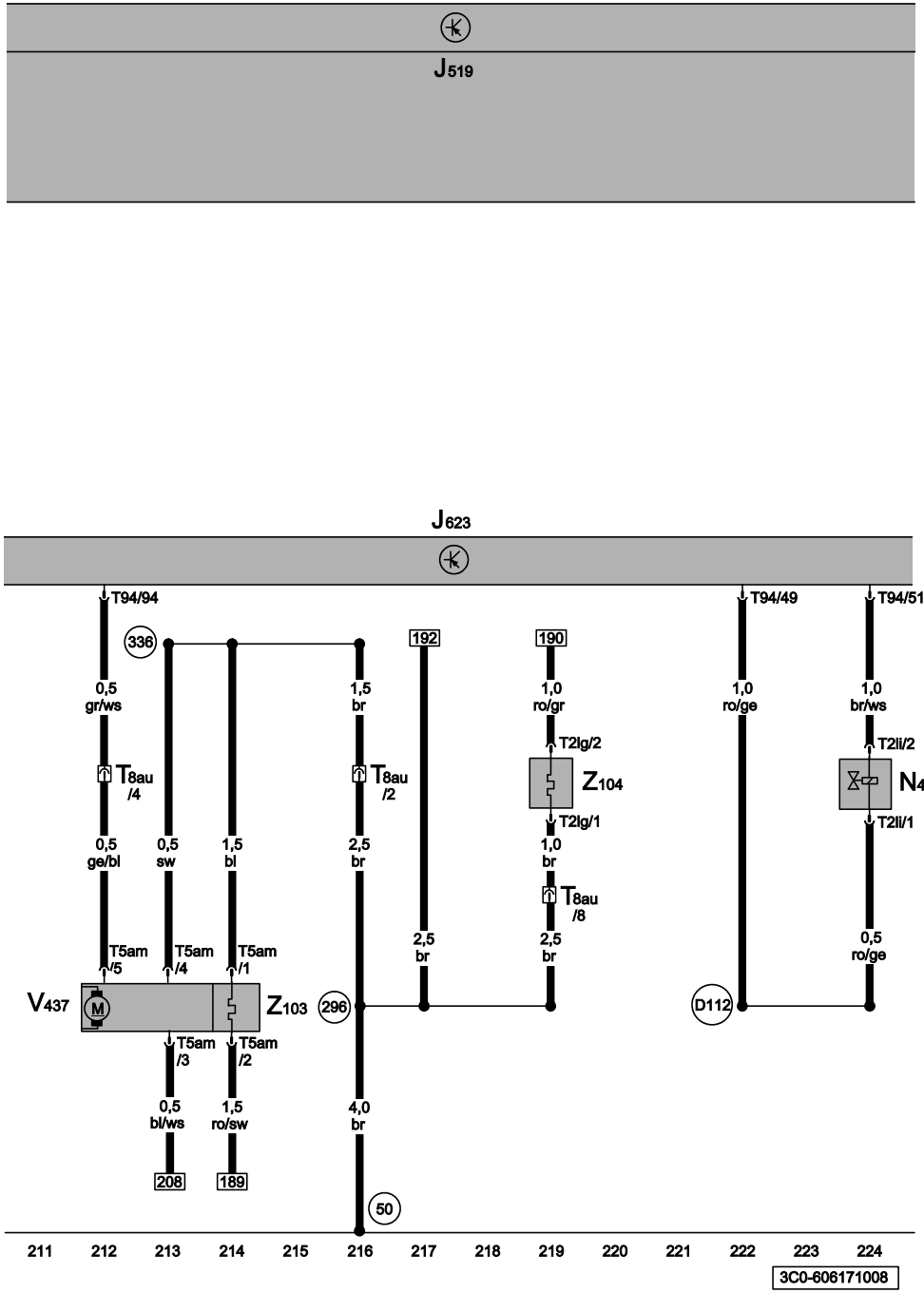


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Engine control unit, sender for reducing agent reservoir, evaluation unit for reducing agent reservoir, reversal valve for reducing agent

G697	Sender for reducing agent reservoir
G698	Evaluation unit for reducing agent reservoir
J519	Onboard supply control unit
J623	Engine control unit
N473	Reversal valve for reducing agent
T2lh	2-pin connector
T3ag	3-pin connector
T4vv	4-pin connector
T4vw	4-pin connector
T8au	8-pin connector, coupling point 1 in luggage compartment floor
T14g	14-pin connector, coupling point 1 in luggage compartment floor
T94	94-pin connector
(W67)	Connection (87), in floor wiring harness
*	Probe line in tank

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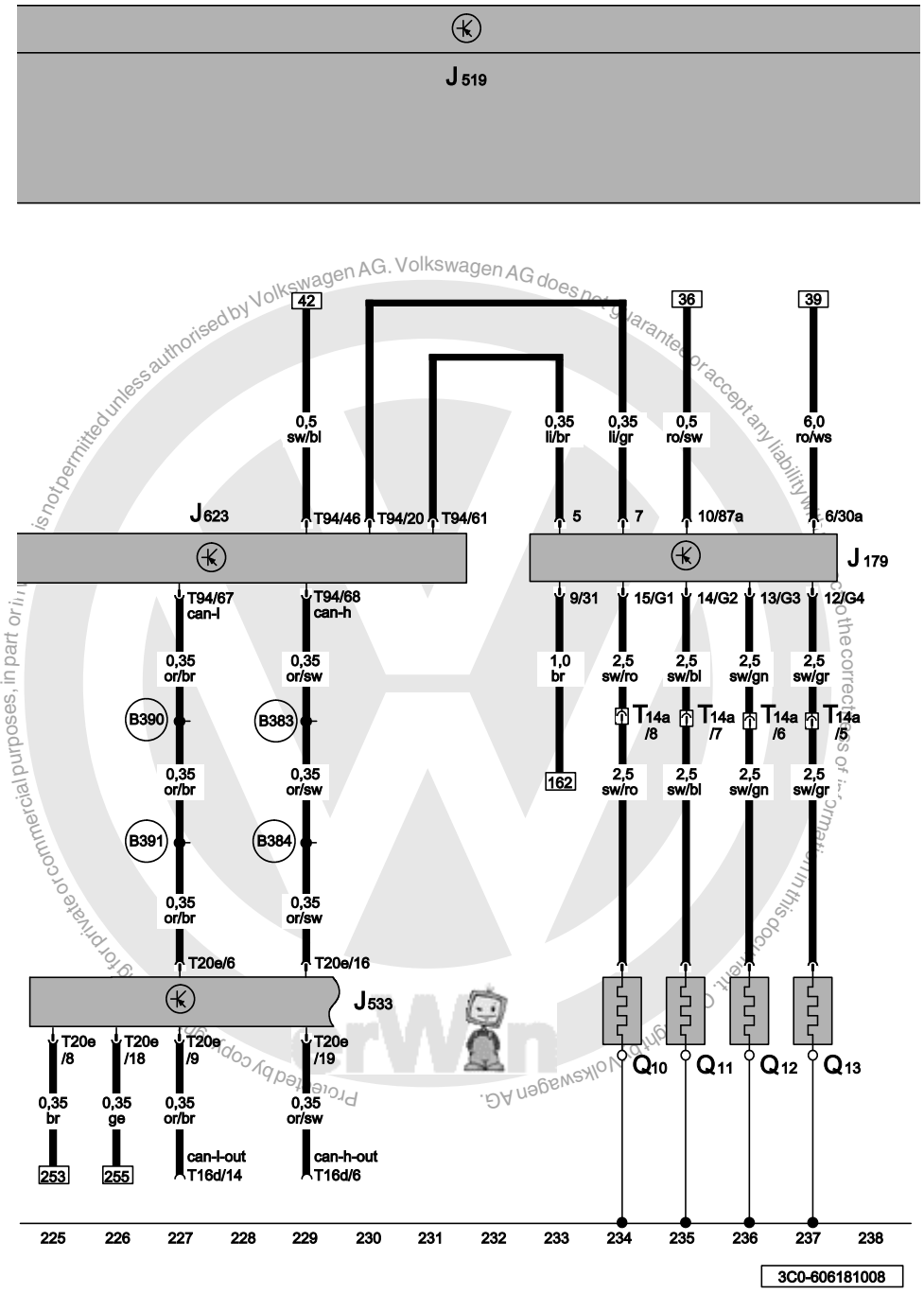


Engine control unit, injector for reducing agent, reducing agent pump, reducing agent pump heater, reducing agent line heater

J519	Onboard supply control unit
J623	Engine control unit
N474	Injector for reducing agent
T2lg	2-pin connector
T2li	2-pin connector
T5am	5-pin connector
T8au	8-pin connector, coupling point 1 in luggage compartment floor
T94	94-pin connector
V437	Reducing agent pump
Z103	Reducing agent pump heater
Z104	Reducing agent line heater
50	Earth point, on left in luggage compartment
296	Earth connection 11, in interior wiring harness
336	Earth connection 1, in floor wiring harness
D112	Connection 10, in engine compartment wiring harness

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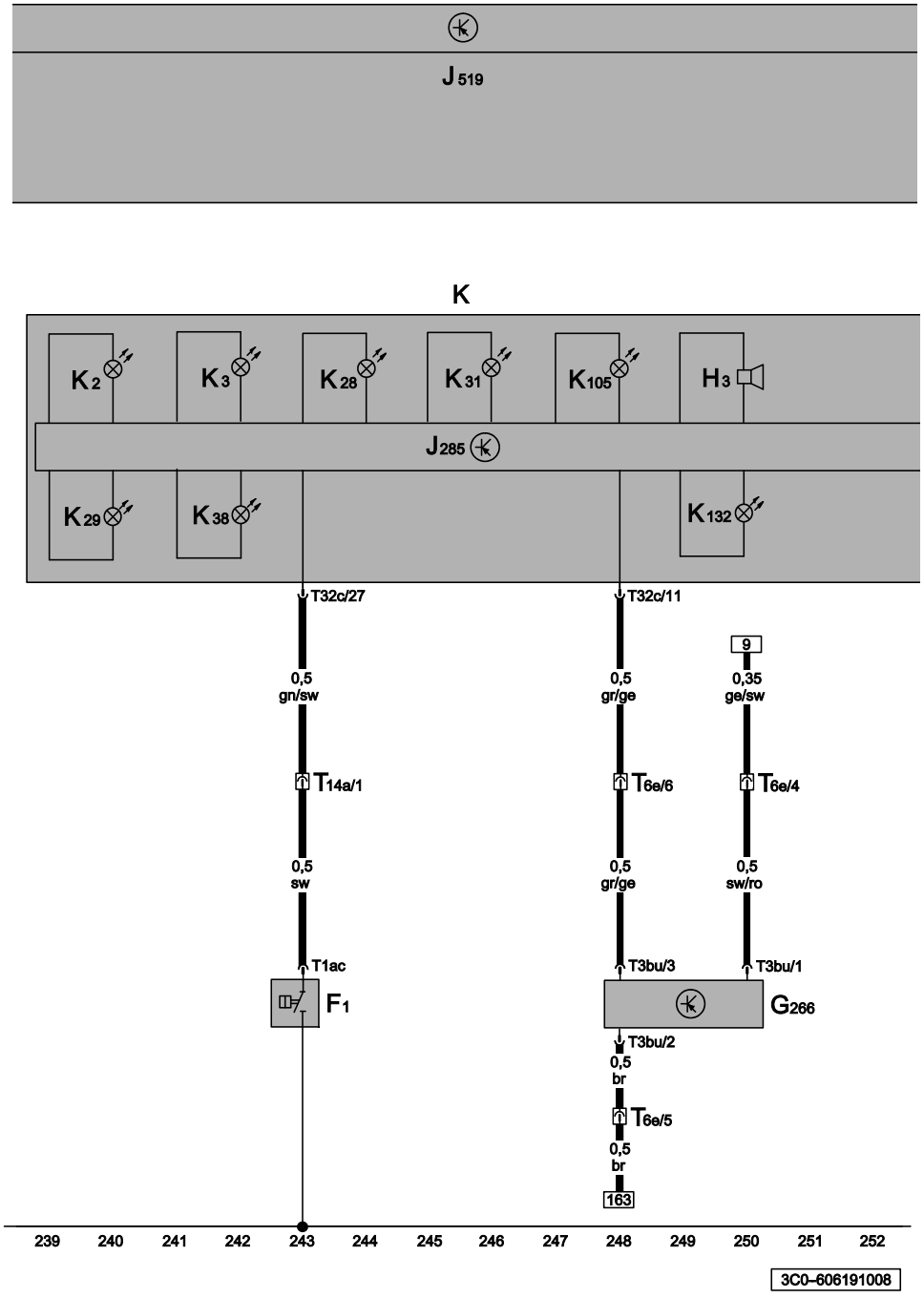


Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

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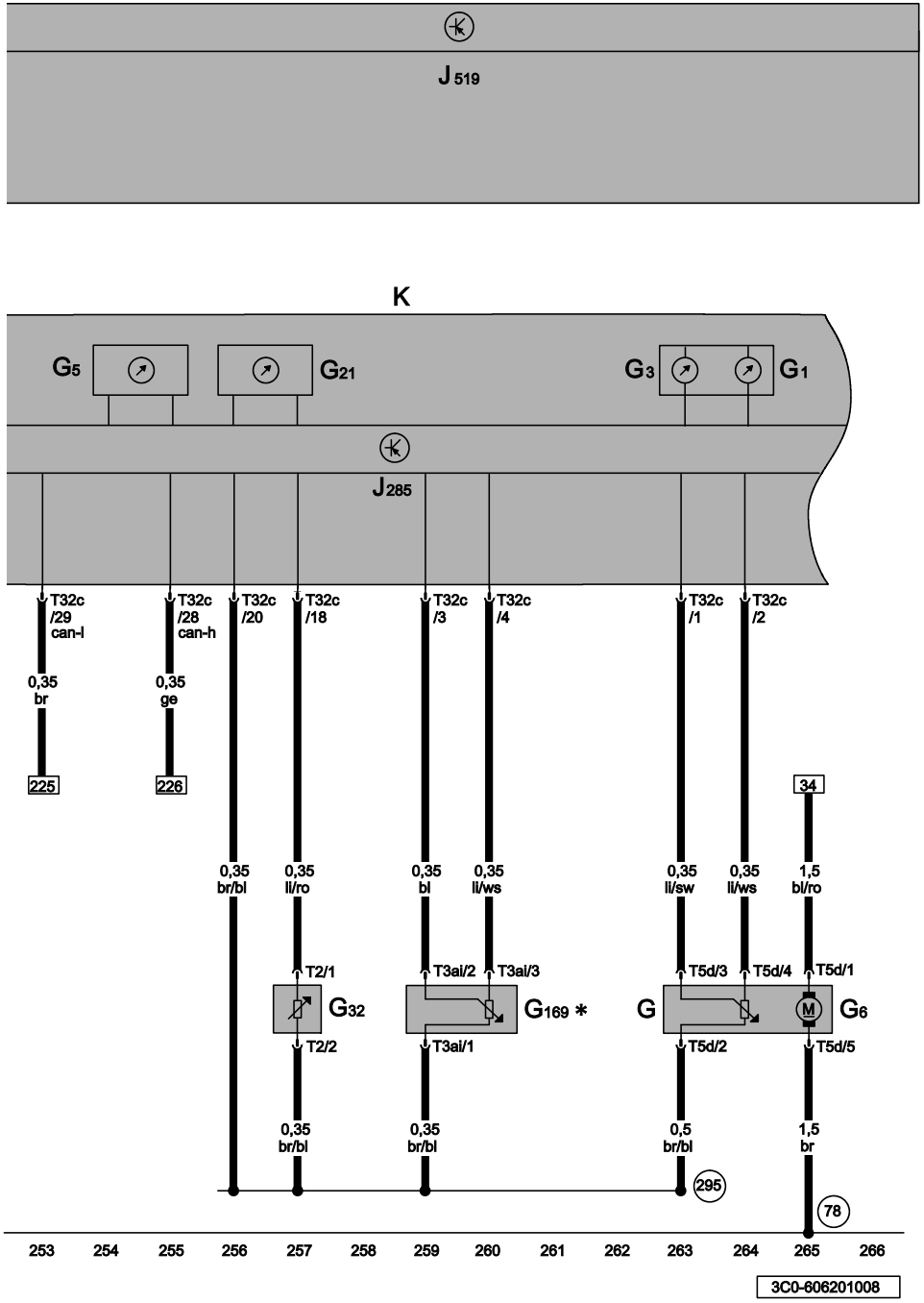


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T32c	32-pin connector

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erWin

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Dash panel insert, rev counter, speedometer, coolant temperature gauge, fuel system pressurisation pump, fuel gauge, fuel gauge sender, coolant temperature gauge, fuel gauge sender 2

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T32c	32-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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2.0 l/81 kW - turbo diesel with common rail, engine code CBDC

⇒ **Start/stop mode**

From November 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

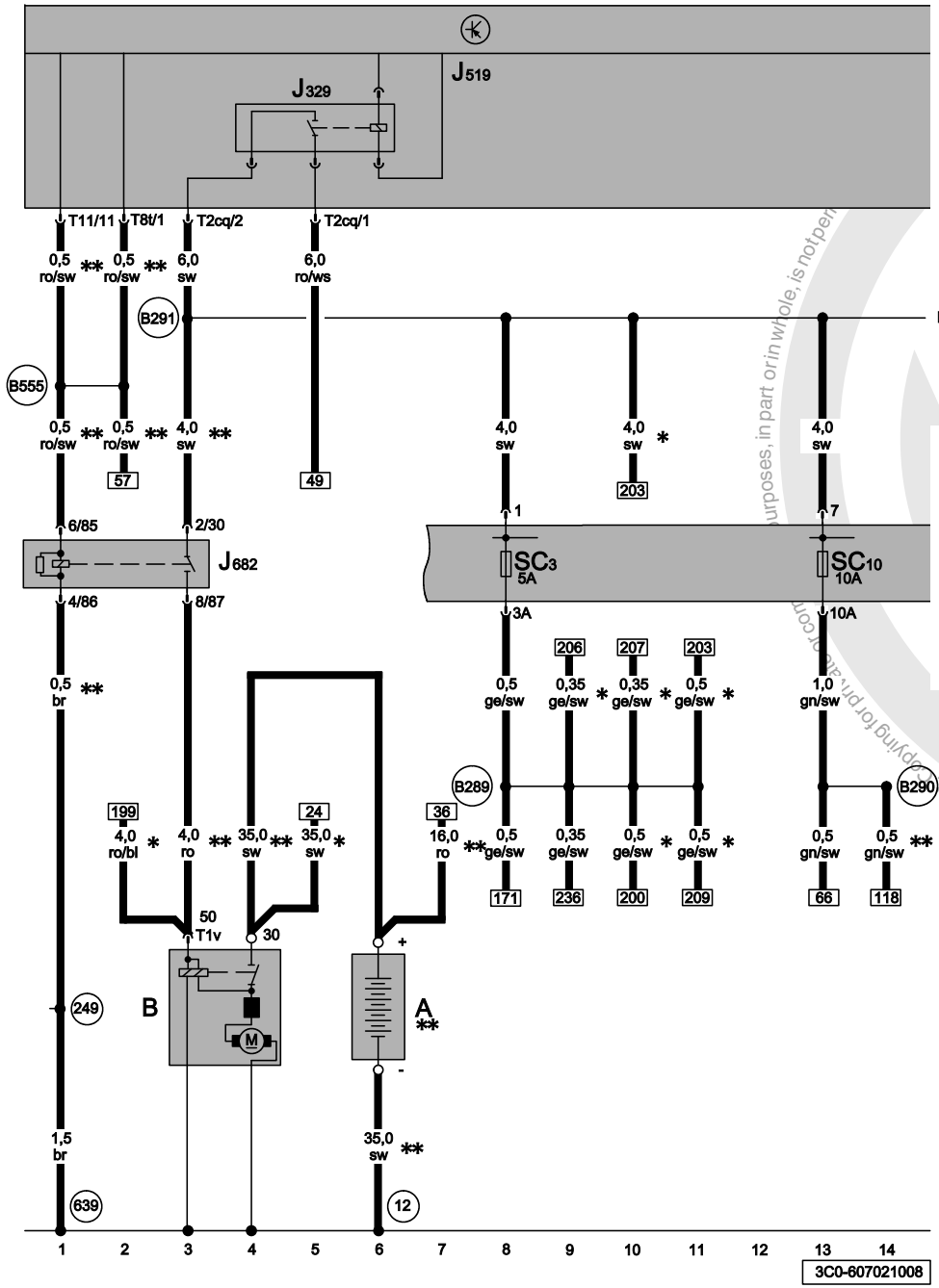
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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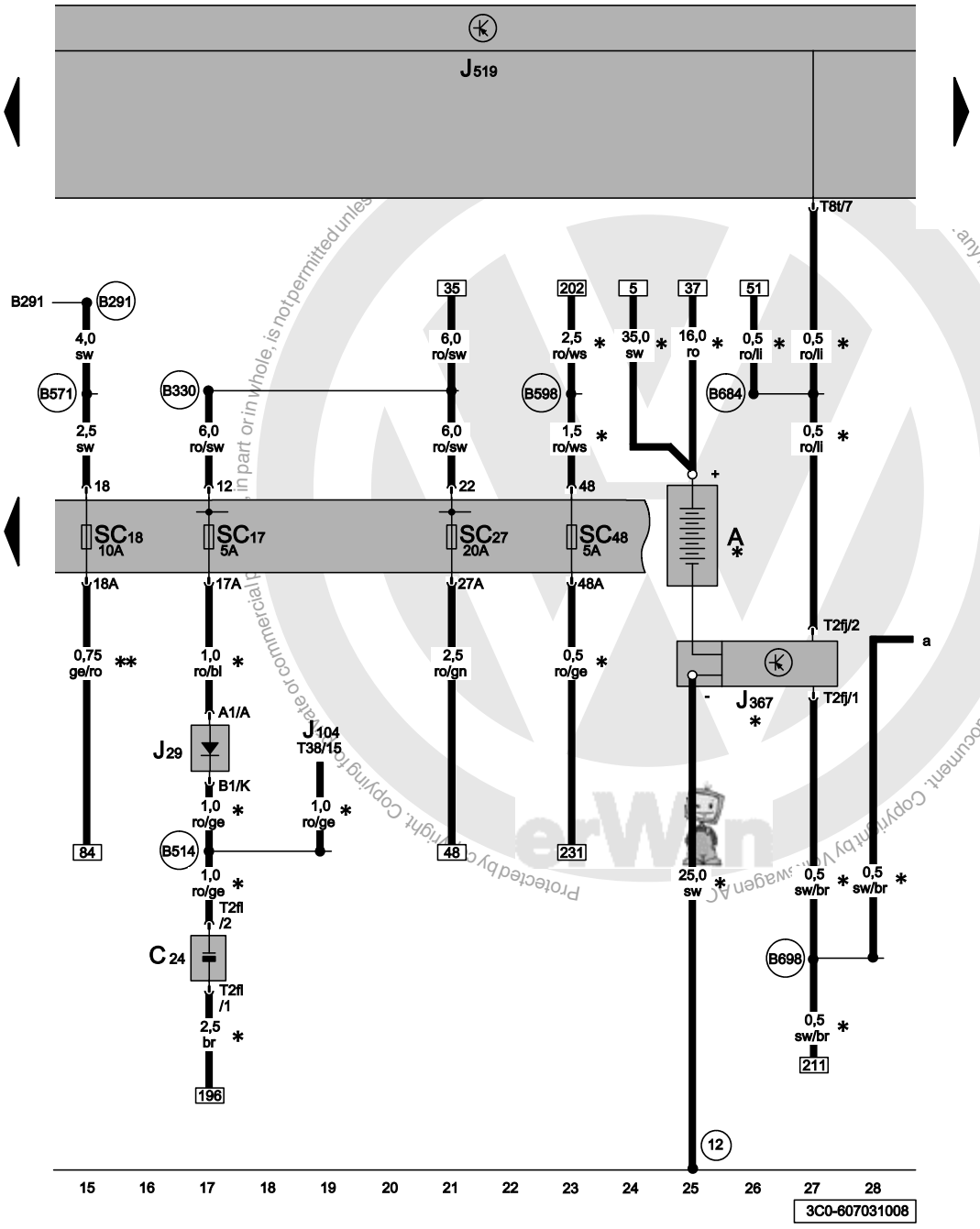


Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, on relay carrier on left under dash panel
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
*	Only models with start/stop system
**	Only models with no start/stop system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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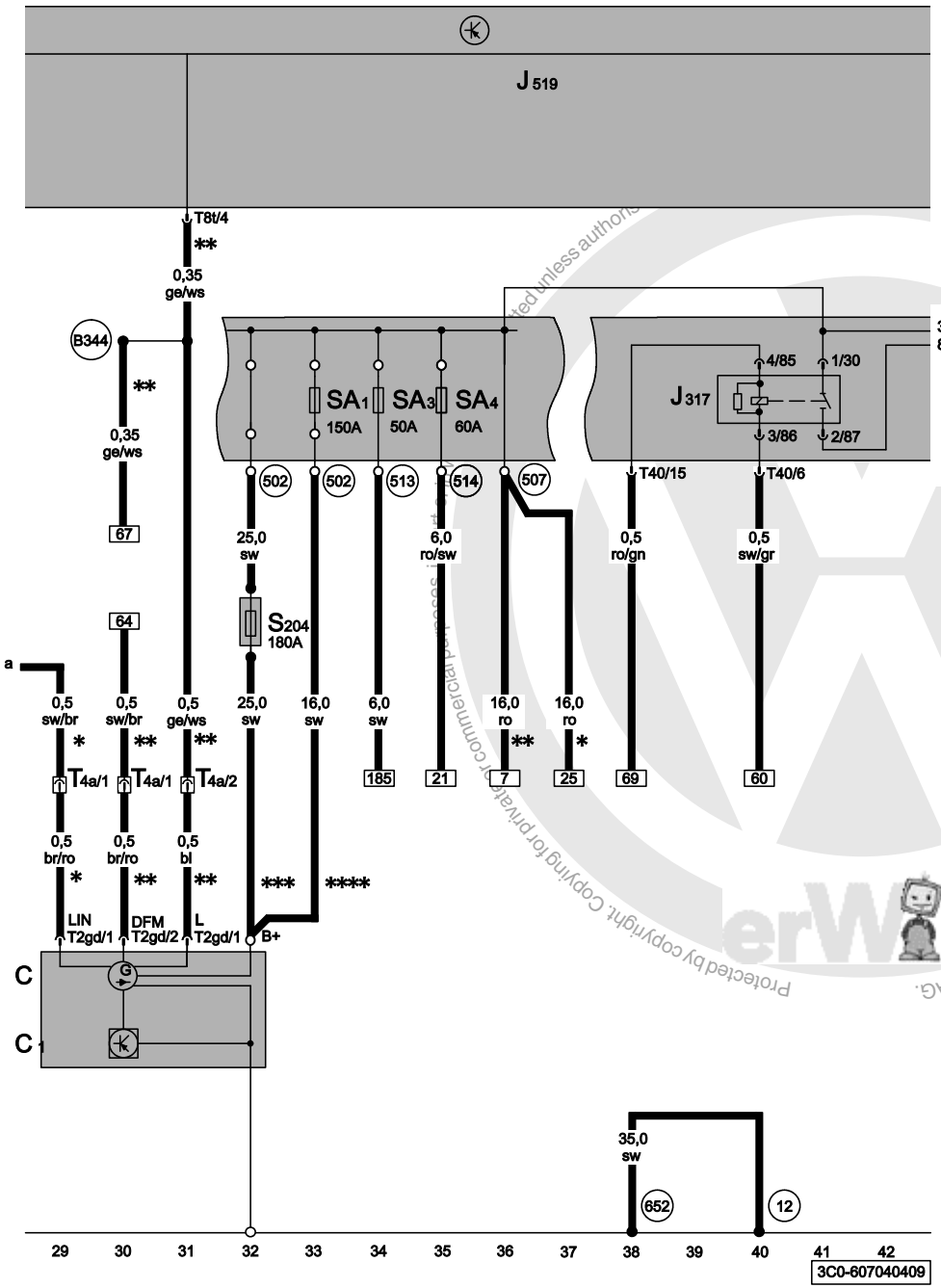


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Battery, suppression filter, battery monitor control unit, blocking diode, fuses

A	Battery
C24	Suppression filter
J29	Blocking diode
J104	ABS control unit
J367	Battery monitor control unit
J519	Onboard supply control unit
SC17	Fuse 17 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
SC48	Fuse 48 on fuse holder C
T2fj	2-pin connector
T2fl	2-pin connector
T8t	8-pin connector
T38	38-pin connector
12	Earth point, on left in engine compartment
B291	Connection 15 (15a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B514	Positive connection 10 (30a), in interior wiring harness
B571	Connection 38, in main wiring harness
B598	Positive connection 11 (30a), in interior wiring harness
B684	Connection 24 (30a), in main wiring harness
B698	Connection 3 (LIN bus), in main wiring harness
*	Only models with start/stop system
**	Only models for cold countries

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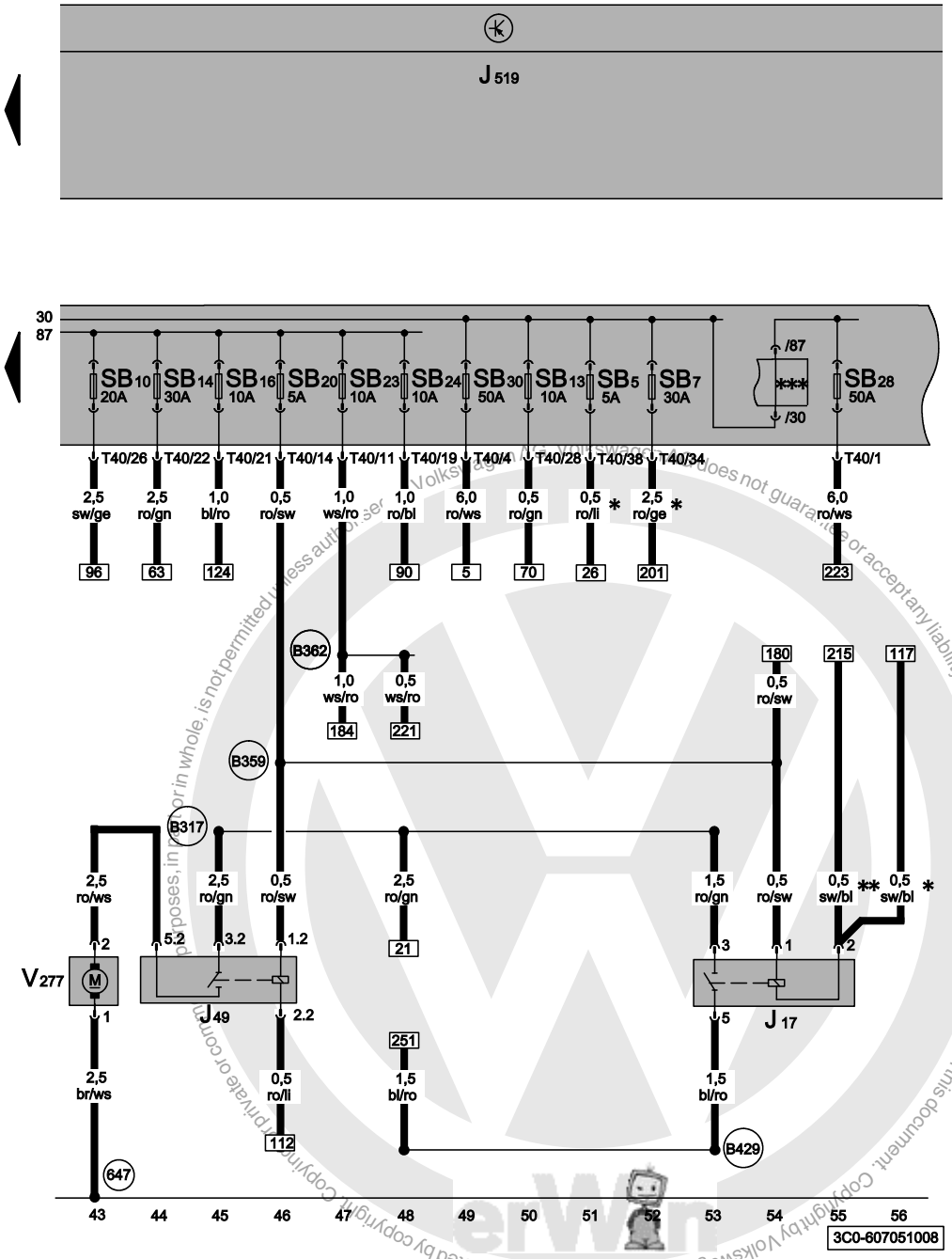


Alternator, terminal 30 voltage supply relay, fuses

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay, on E-box on left in engine compartment (458)
J519	Onboard supply control unit
S204	Fuse 1 (30)
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
T2gd	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
12	Earth point, on left in engine compartment
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
652	Earth point, engine and gearbox earth
B344	Connection 1 (61), in main wiring harness
*	Only models with start/stop system
**	Only models with no start/stop system
***	Only models with 180 A alternator
****	Only models with 140 A alternator

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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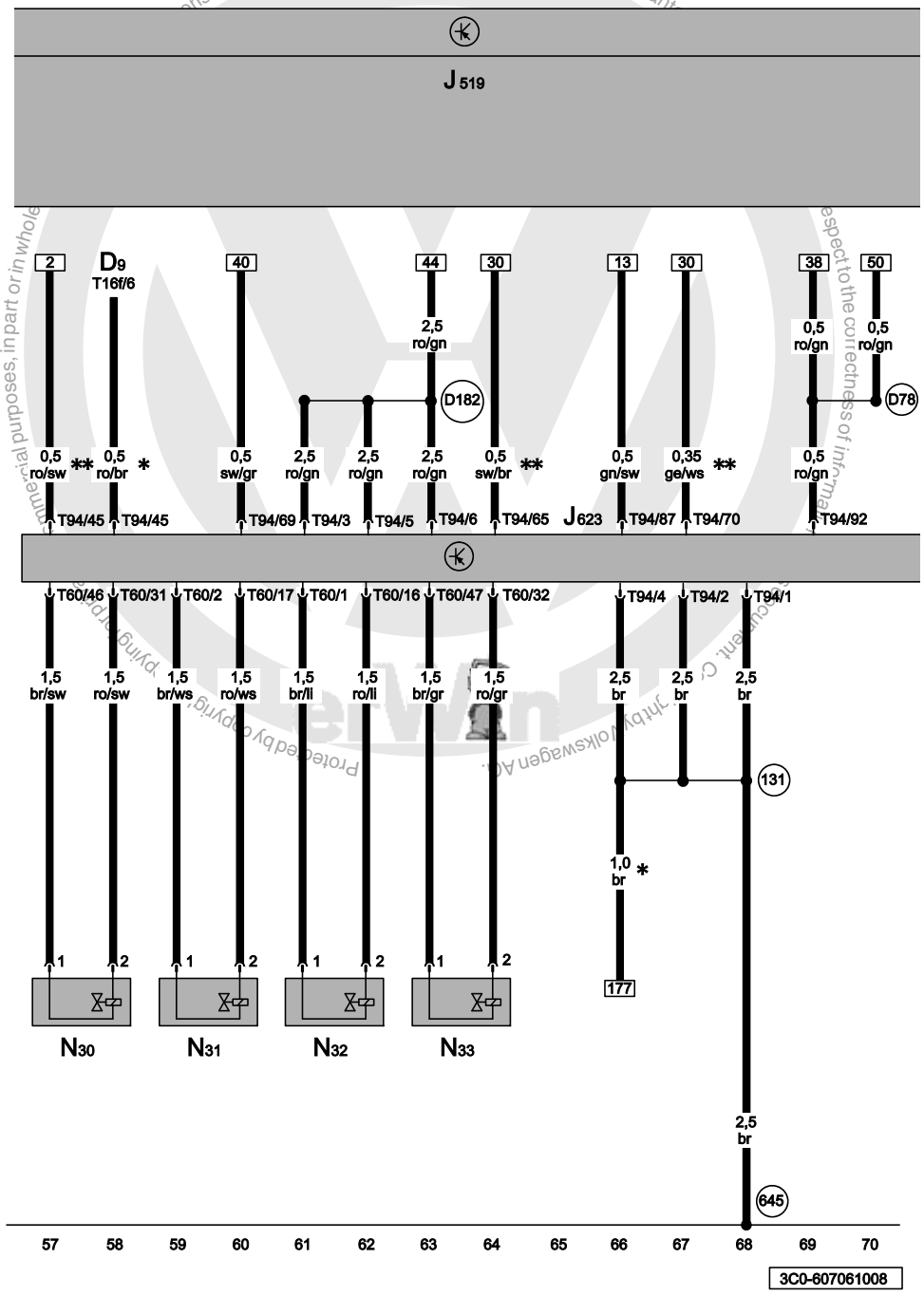


Fuel pump relay, electric fuel pump 2 relay, fuel pump 2, fuses

J17	Fuel pump relay, on relay carrier on left under dash panel (449)
J49	Electric fuel pump 2 relay, on relay carrier on left under dash panel (449)
J519	Onboard supply control unit
SB5	Fuse 5 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T40	40-pin connector
V277	Fuel pump 2
647	Earth point 3, on bulkhead
B317	Connection 3 (30a), in main wiring harness
B359	Connection 10 (87a), in main wiring harness
B362	Connection 13 (87a), in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only models with start/stop system
**	Only models with no start/stop system
***	Push-in bridge on relay slot R1

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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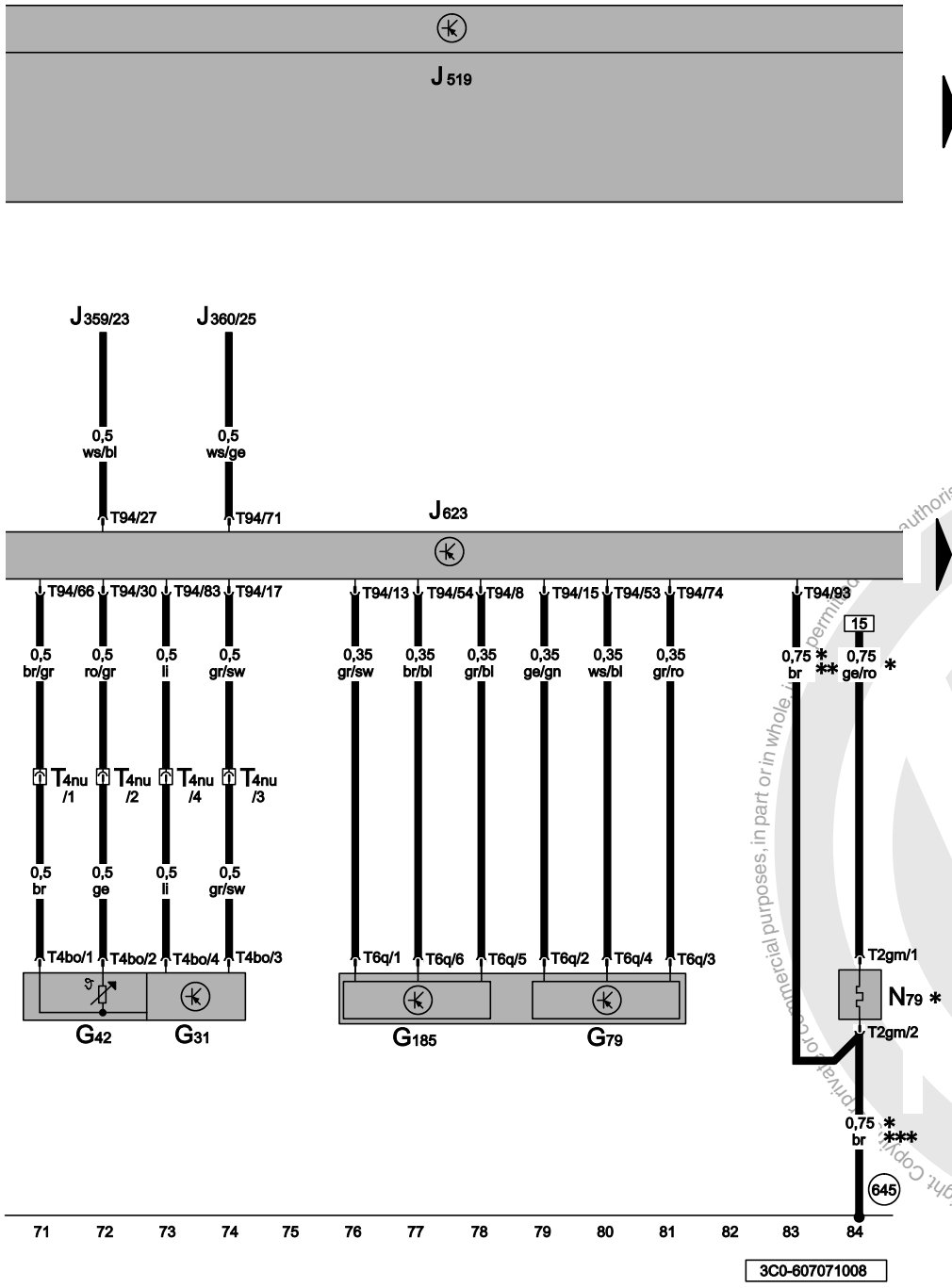
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Engine control unit, injectors for cylinders 1-4

D9	Electronic ignition lock
J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T16f	16-pin connector
T60	60-pin connector
T94	94-pin connector
(131)	Earth connection 2, in engine compartment wiring harness
(645)	Earth point 1, on bulkhead
(D78)	Positive connection 1 (30a), in engine compartment wiring harness
(D182)	Connection 3 (87a), in engine compartment wiring harness
*	Only models with start/stop system
**	Only models with no start/stop system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

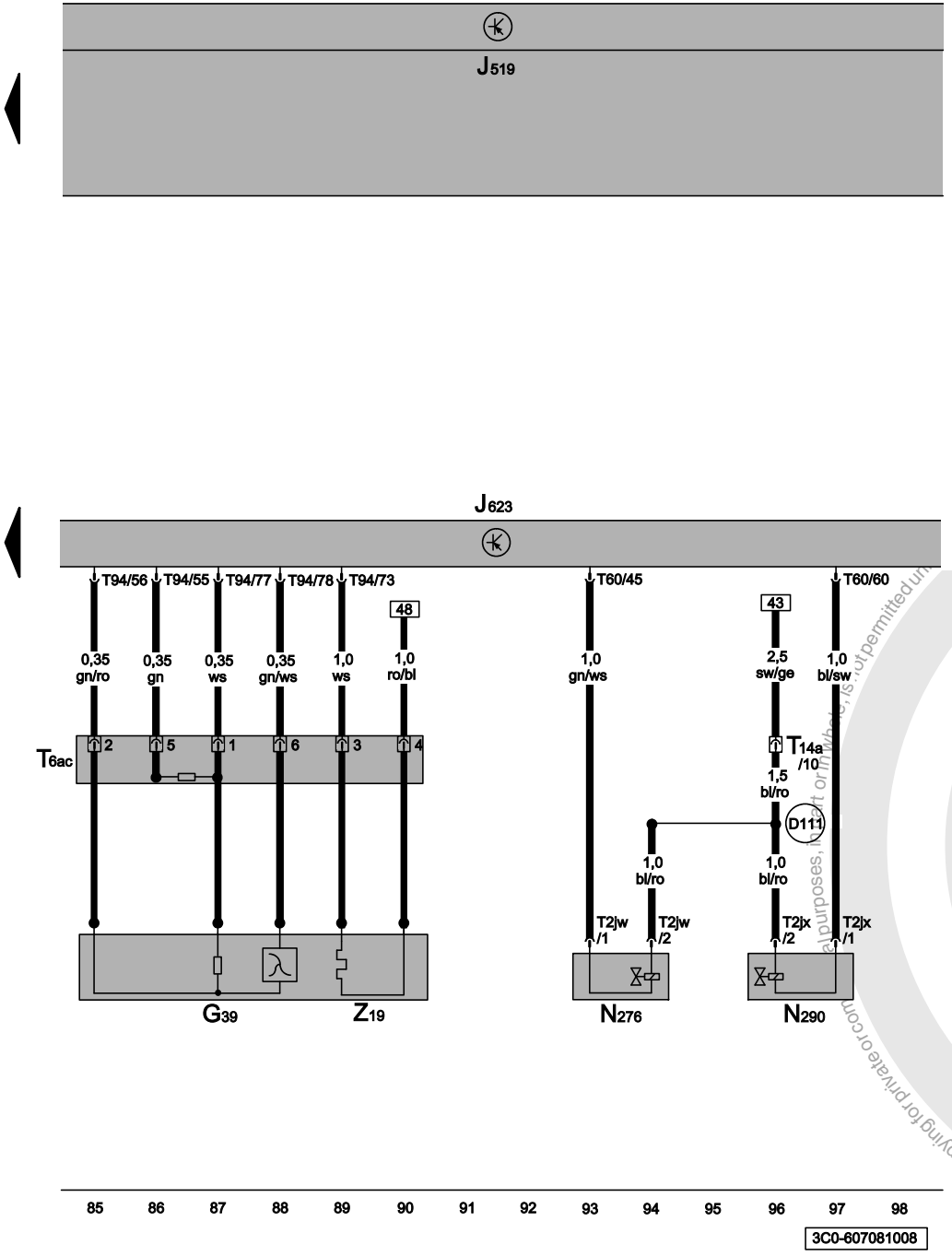


Engine control unit, intake air temperature sender, charge air pressure sender, accelerator position sender, crankcase breather heater element

G31	Charge air pressure sender
G42	Intake air temperature sender
G79	Accelerator position sender
G185	Accelerator position sender 2
J359	Low heat output relay
J360	High heat output relay
J519	Onboard supply control unit
J623	Engine control unit
N79	Crankcase breather heater element
T2gm	2-pin connector, black
T4bo	4-pin connector
T4nu	4-pin connector, black
T6q	6-pin connector
T94	94-pin connector
645	Earth point 1, on bulkhead
*	Only models for cold countries
**	Applicable from May 2009
***	Applicable to April 2009

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
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or	=	orange
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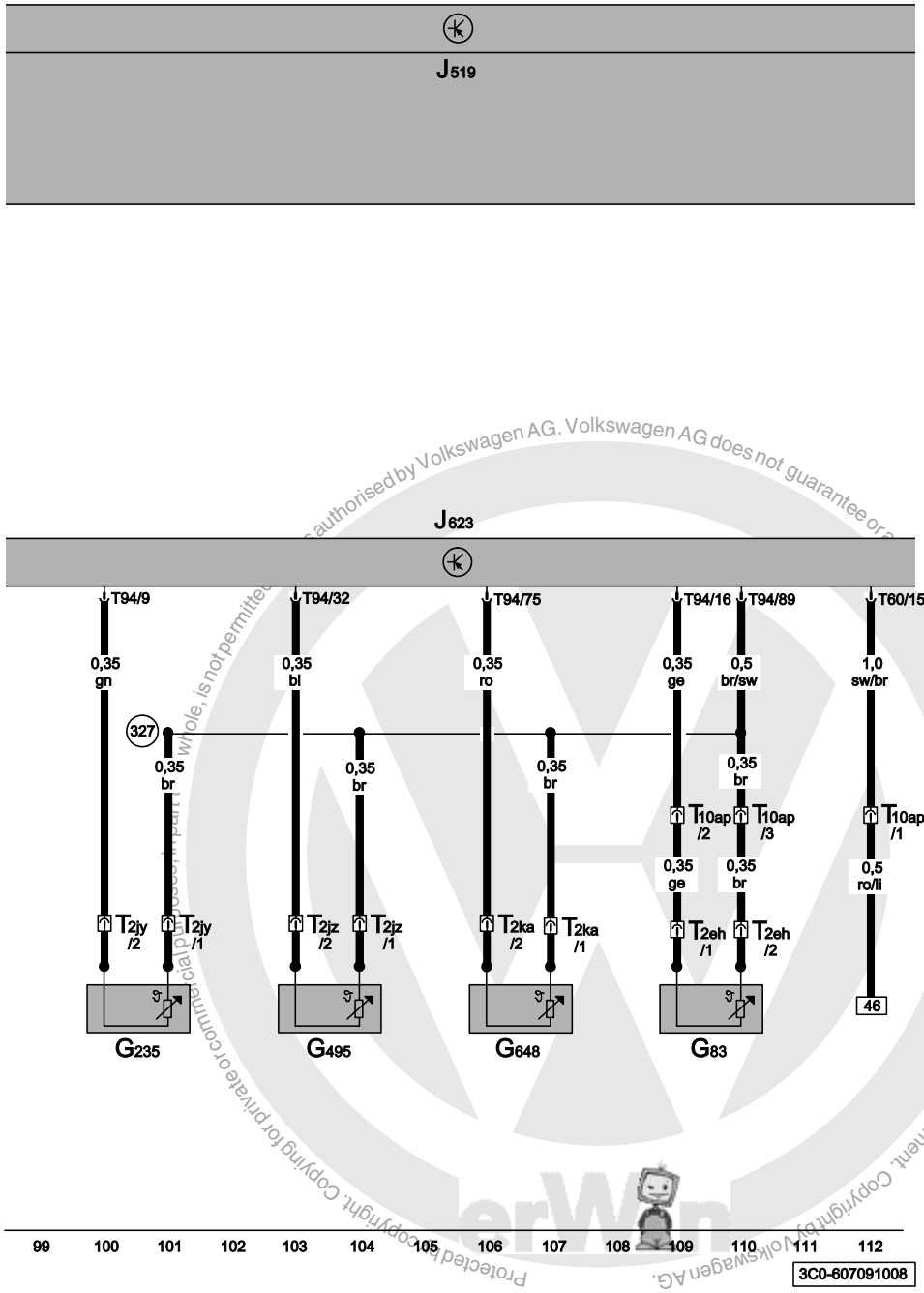


Engine control unit, Lambda probe, fuel pressure regulating valve, fuel metering valve, Lambda probe heater

G39	Lambda probe
J519	Onboard supply control unit
J623	Engine control unit
N276	Fuel pressure regulating valve
N290	Fuel metering valve
T2jw	2-pin connector
T2jx	2-pin connector
T6ac	6-pin connector, black, coupling point for Lambda probe
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
Z19	Lambda probe heater
D111	Connection 9, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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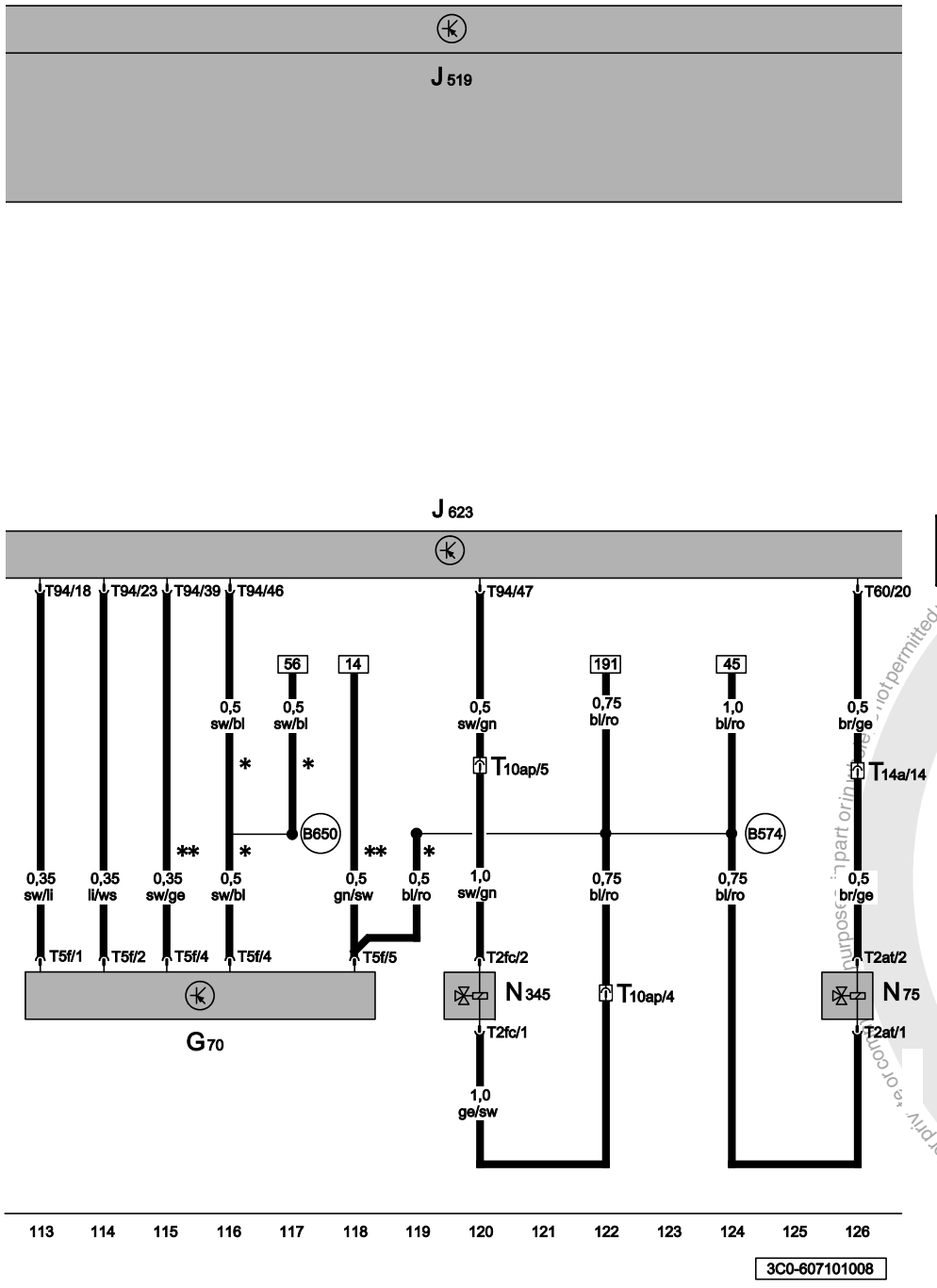


Engine control unit, exhaust temperature sender, radiator outlet coolant temperature sender

G83	Radiator outlet coolant temperature sender
G235	Exhaust temperature sender 1
G495	Exhaust temperature sender 3
G648	Exhaust temperature sender 4
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
T2eh	2-pin connector
T2jy	2-pin connector, black
T2jz	2-pin connector, brown
T2ka	2-pin connector, brown
T10ap	10-pin connector, near left headlight
T60	60-pin connector
T94	94-pin connector
(327)	Earth connection (sender earth), in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Engine control unit, air mass meter, charge pressure control solenoid valve, exhaust gas recirculation cooler changeover valve

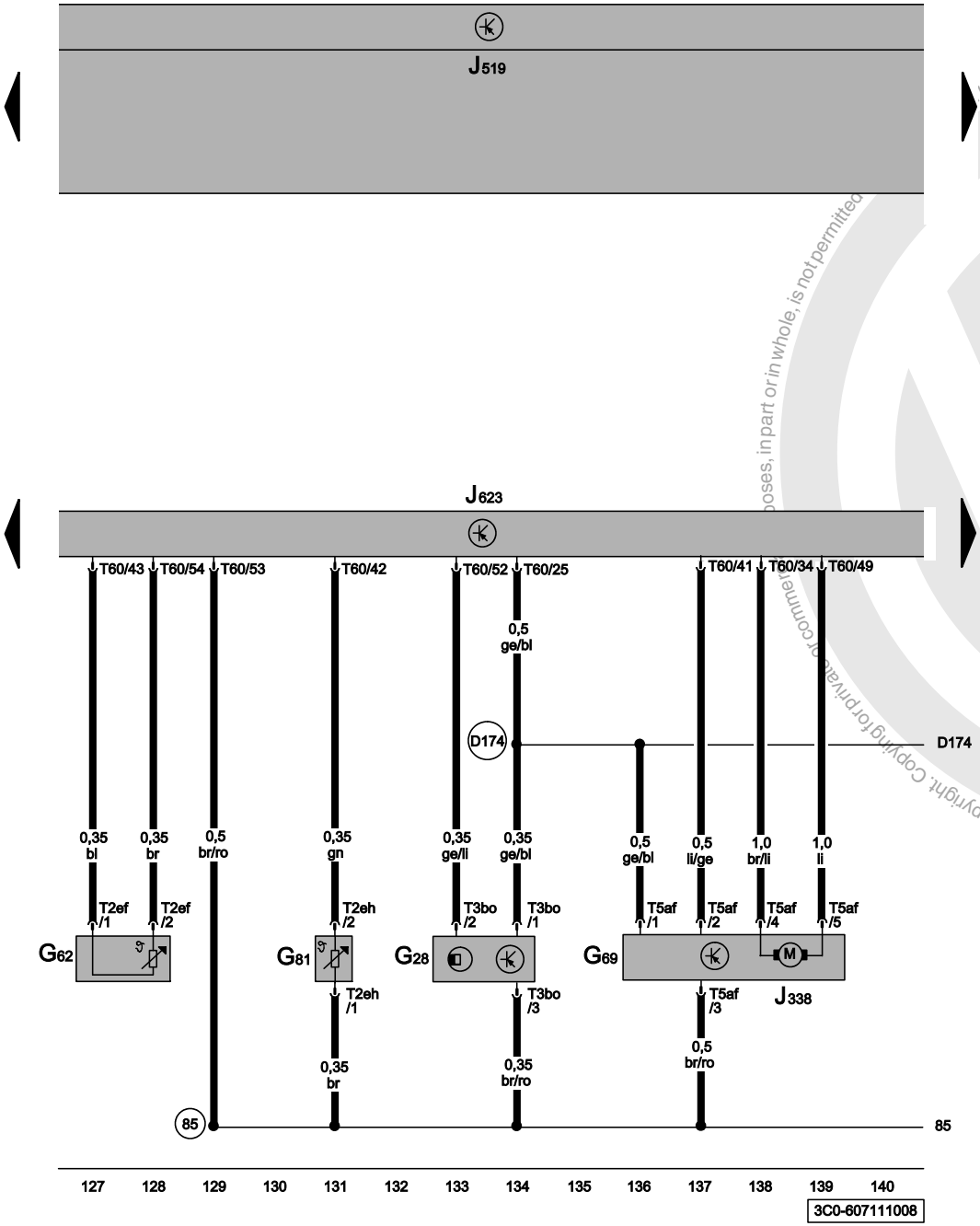
G70	Air mass meter
J519	Onboard supply control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N345	Exhaust gas recirculation cooler changeover valve
T2at	2-pin connector
T2fc	2-pin connector
T5f	5-pin connector
T10ap	10-pin connector, near left headlight
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Connection 20 (87a), in main wiring harness
B650	Connection 8, in interior wiring harness
*	Only models with start/stop system
**	Only models with no start/stop system

ws	=	white
sw	=	black
ro	=	red
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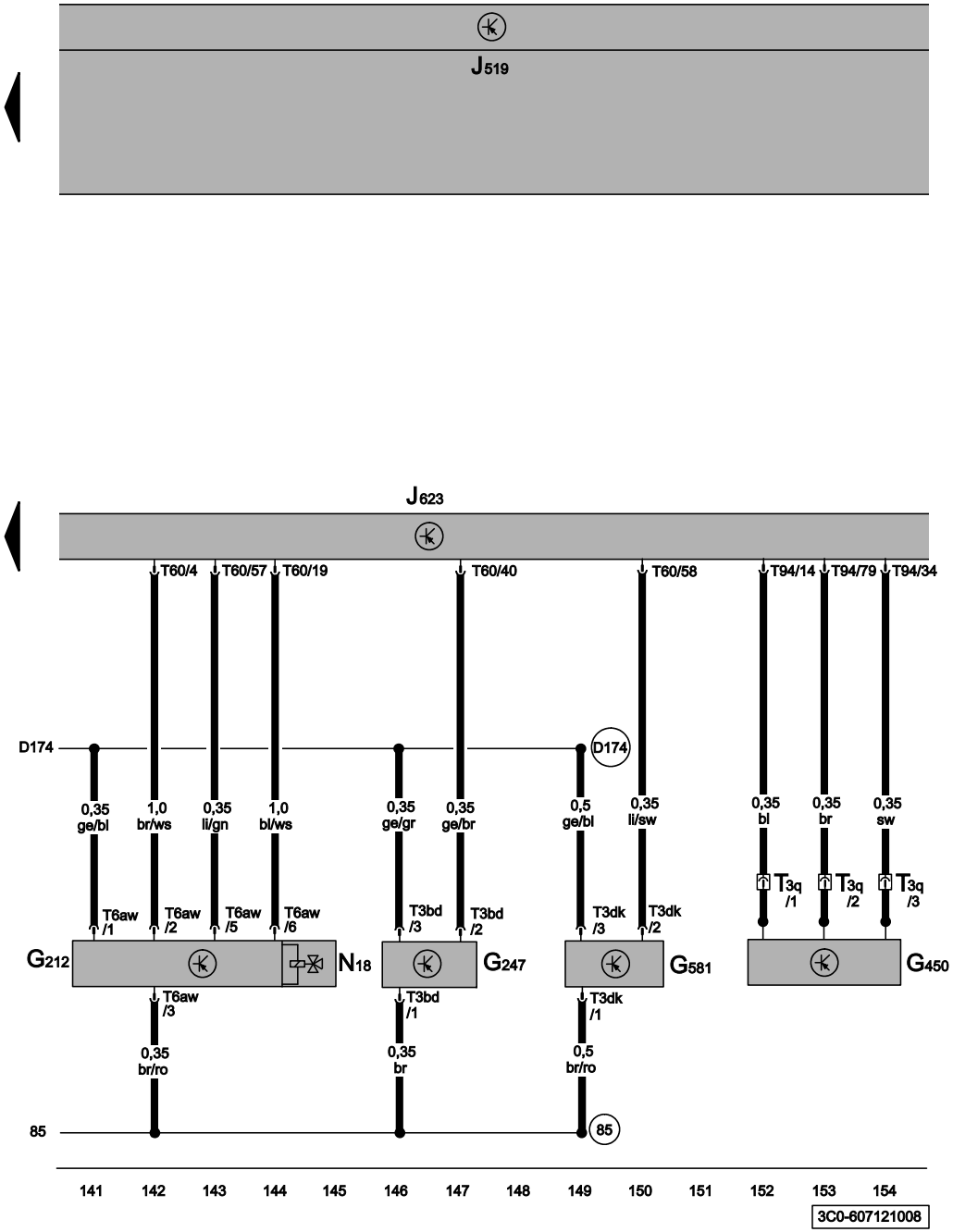
Engine control unit, throttle valve module, throttle valve potentiometer, fuel temperature sender, coolant temperature sender, engine speed sender

G28	Engine speed sender
G62	Coolant temperature sender
G69	Throttle valve potentiometer
G81	Fuel temperature sender
J338	Throttle valve module
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
T2ef	2-pin connector
T2eh	2-pin connector
T3bo	3-pin connector
T5af	5-pin connector
T60	60-pin connector
85	Earth connection 1, in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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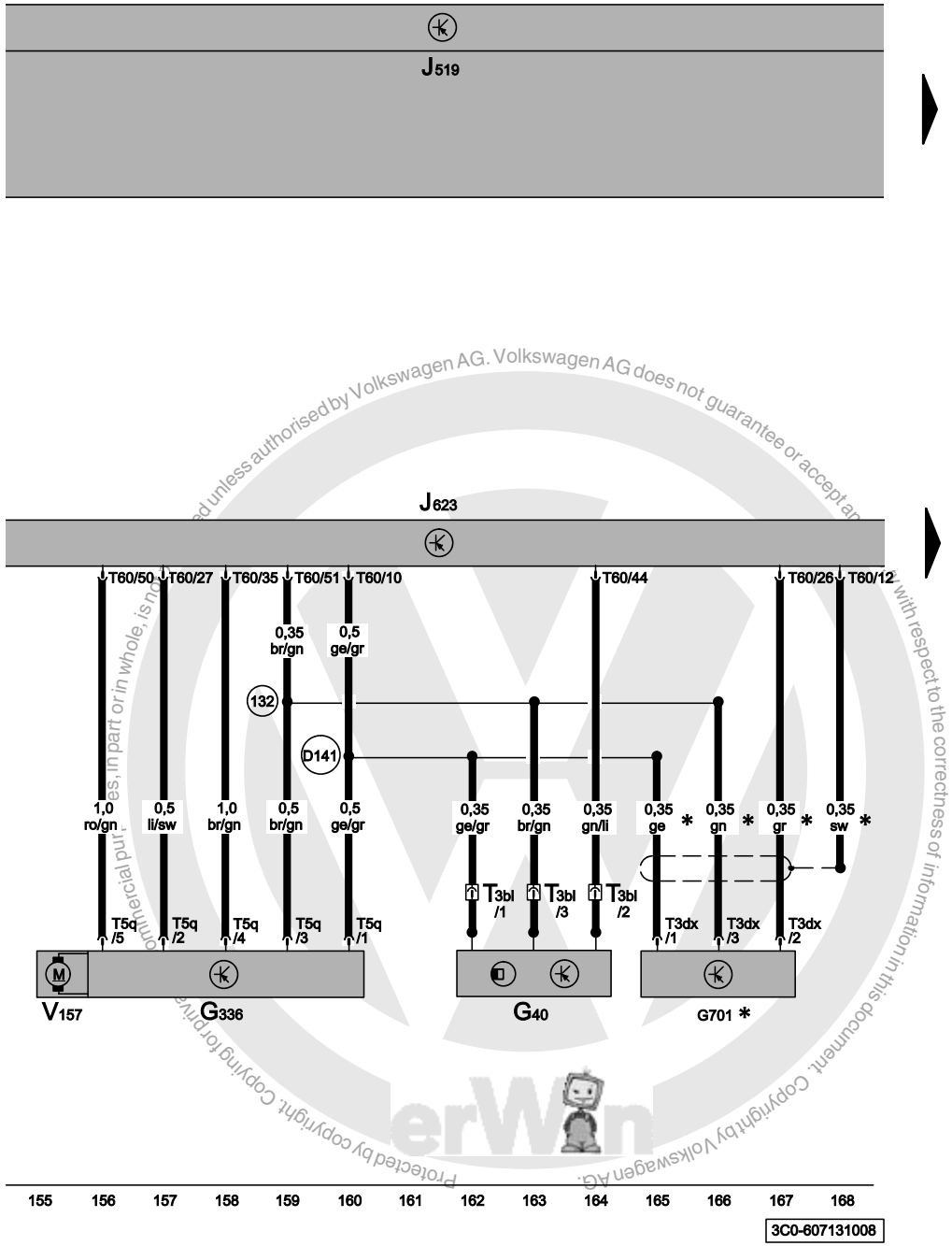


Engine control unit, exhaust gas recirculation valve, exhaust gas recirculation potentiometer, position sender for charge pressure positioner, fuel pressure sender, exhaust gas pressure sensor 1

G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
G450	Exhaust gas pressure sensor 1
G581	Position sender for charge pressure positioner
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
N18	Exhaust gas recirculation valve
T3bd	3-pin connector
T3dk	3-pin connector
T3q	3-pin connector
T6aw	6-pin connector
T60	60-pin connector
85	Earth connection 1, in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

ws	=	white
sw	=	black
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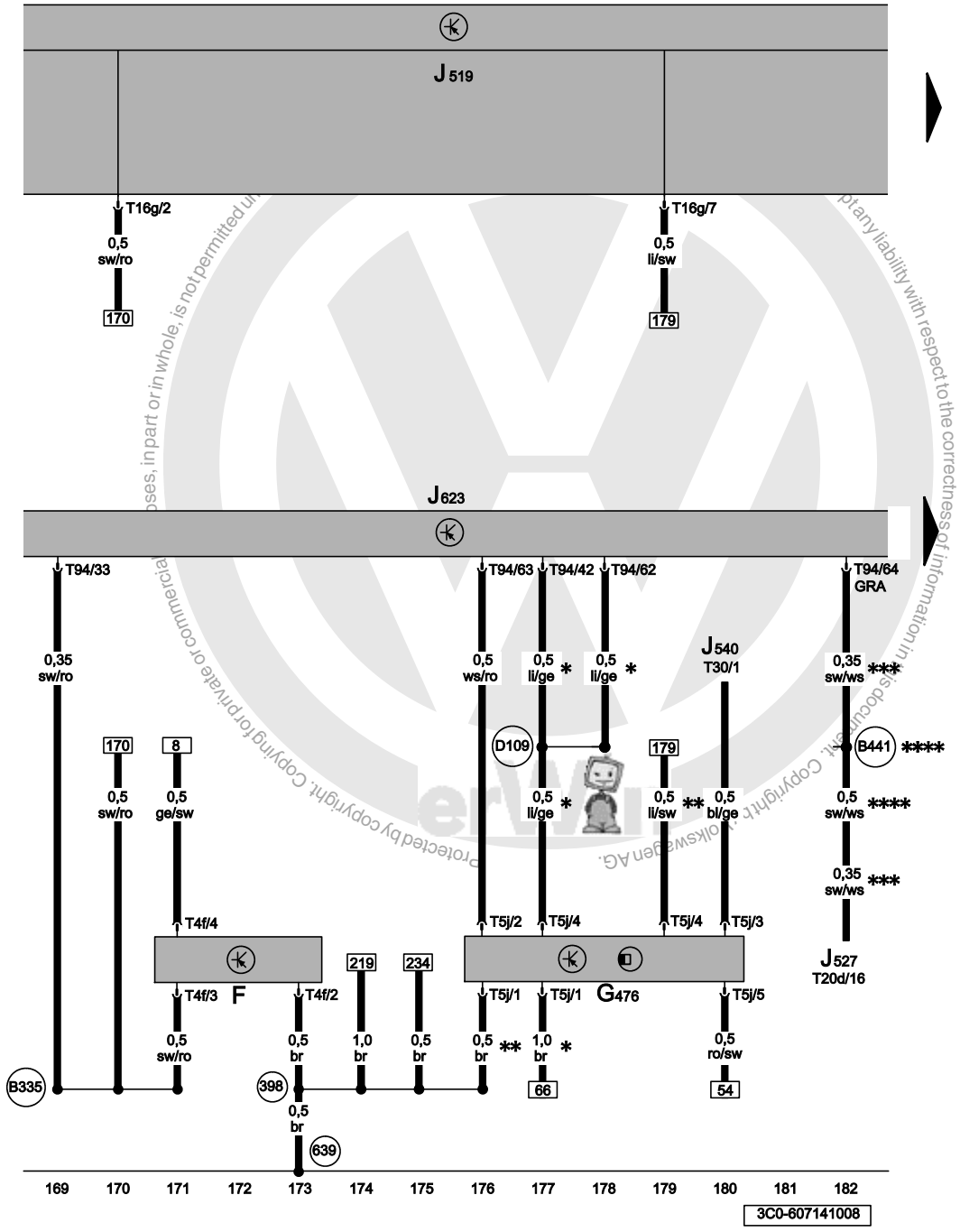


Engine control unit, intake manifold flap potentiometer, intake manifold flap motor, Hall sender, gearbox neutral position switch

F365	Gearbox neutral position switch
G40	Hall sender
G336	Intake manifold flap potentiometer
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
T3bl	3-pin connector, grey
T3dx	3-pin connector
T5q	5-pin connector
T60	60-pin connector
T94	94-pin connector
V157	Intake manifold flap motor
(132)	Earth connection 3, in engine compartment wiring harness
(D141)	Connection (5V) in engine prewiring harness
*	Only models with start/stop system

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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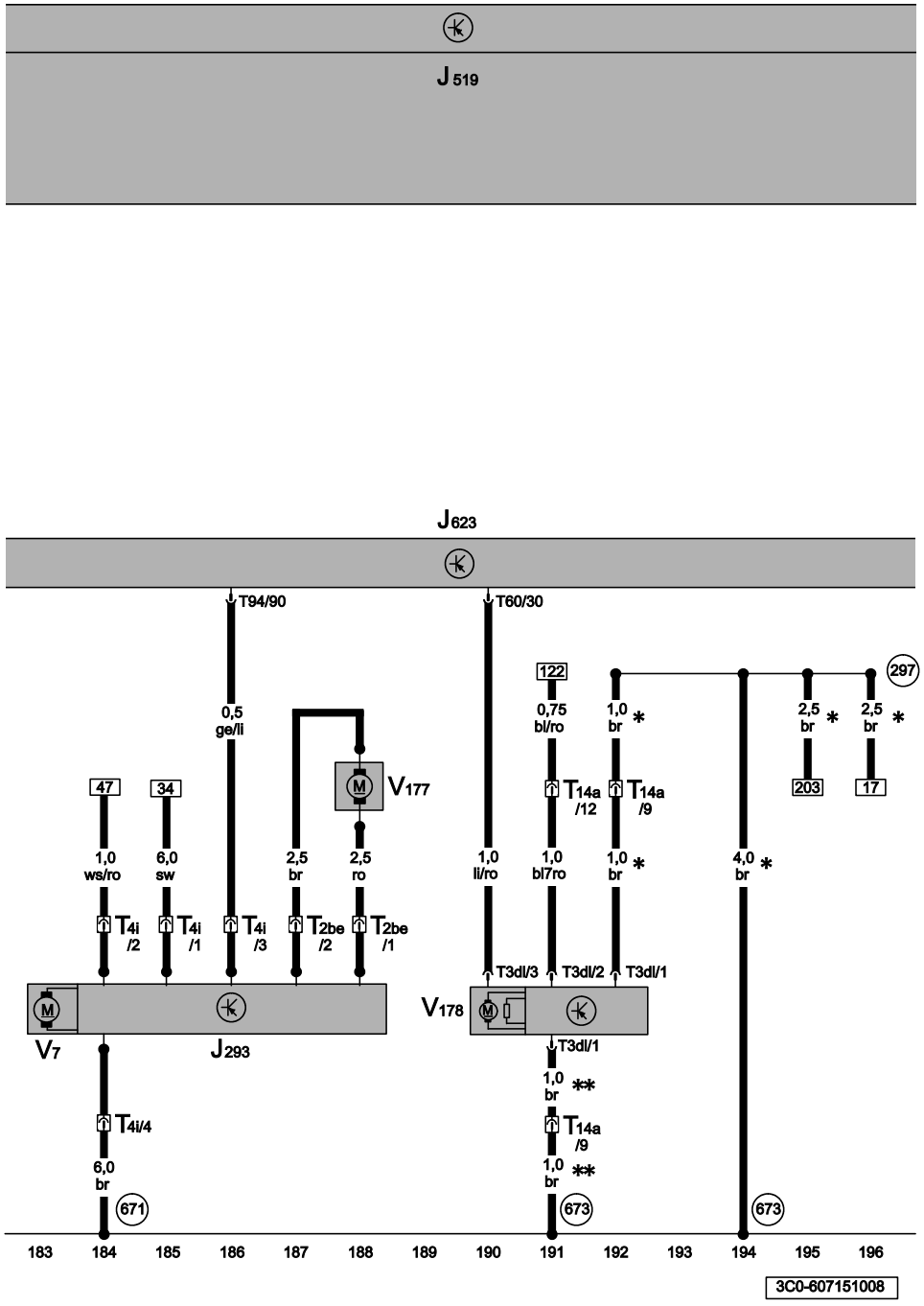


Engine control unit, clutch position sender, brake light switch

F	Brake light switch, in engine compartment
G476	Clutch position sender, in engine compartment
J519	Onboard supply control unit
J527	Steering column electronics control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector, black
T16g	16-pin connector
T20d	20-pin connector
T30	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B441	Connection (CCS), in main wiring harness
D109	Connection 7, in engine compartment wiring harness
*	Only models with start/stop system
**	Only models with no start/stop system
***	Only models with CCS
****	Only models with adaptive cruise control

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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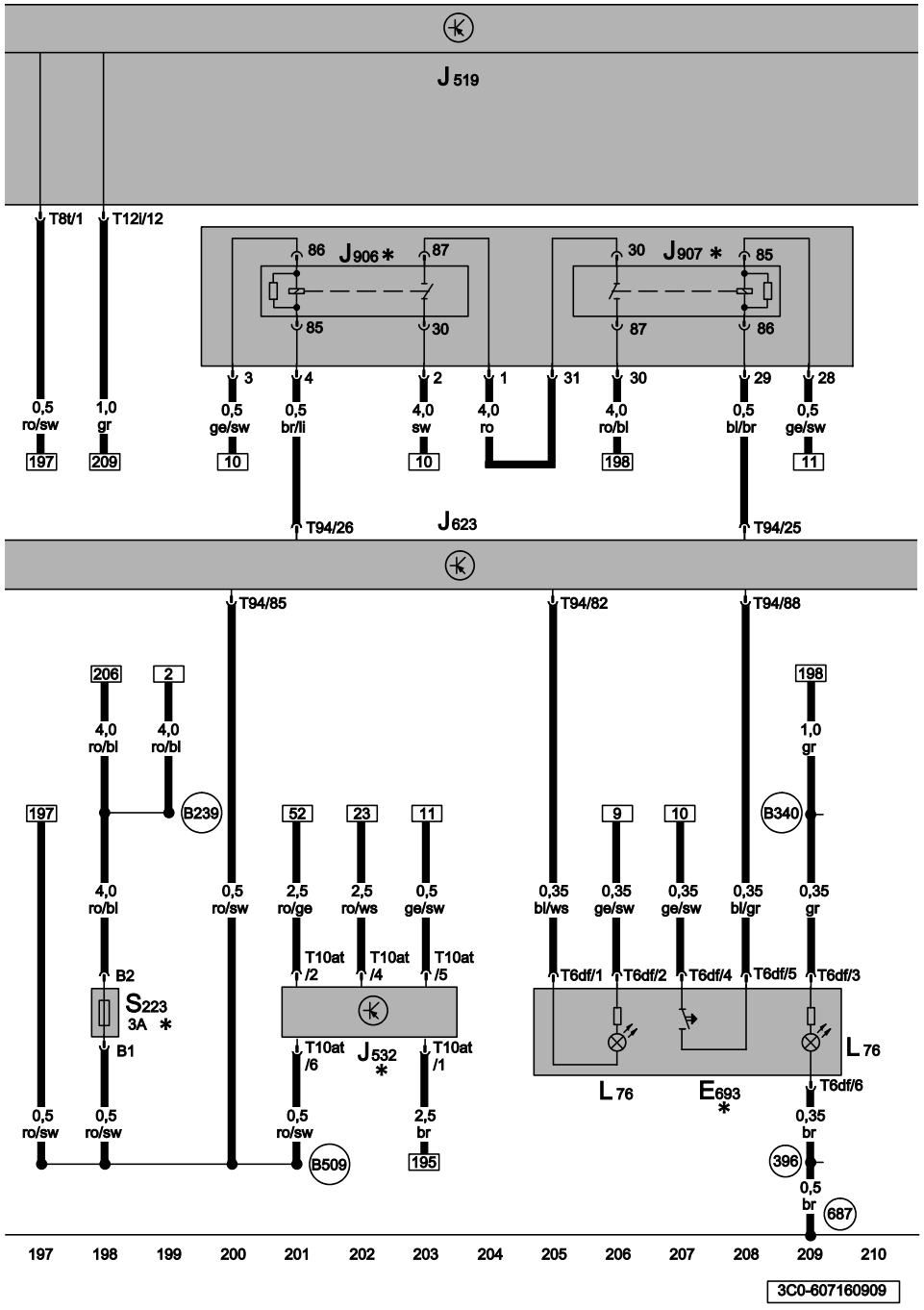


Engine control unit, radiator fan control unit, radiator fan, continued coolant circulation pump 2

J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
T2be	2-pin connector, on lock carrier
T3dl	3-pin connector
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
V178	Coolant circulation pump 2
297	Earth connection 12, in interior wiring harness
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
*	Only models with start/stop system
**	Only models with no start/stop system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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rs	=	pink

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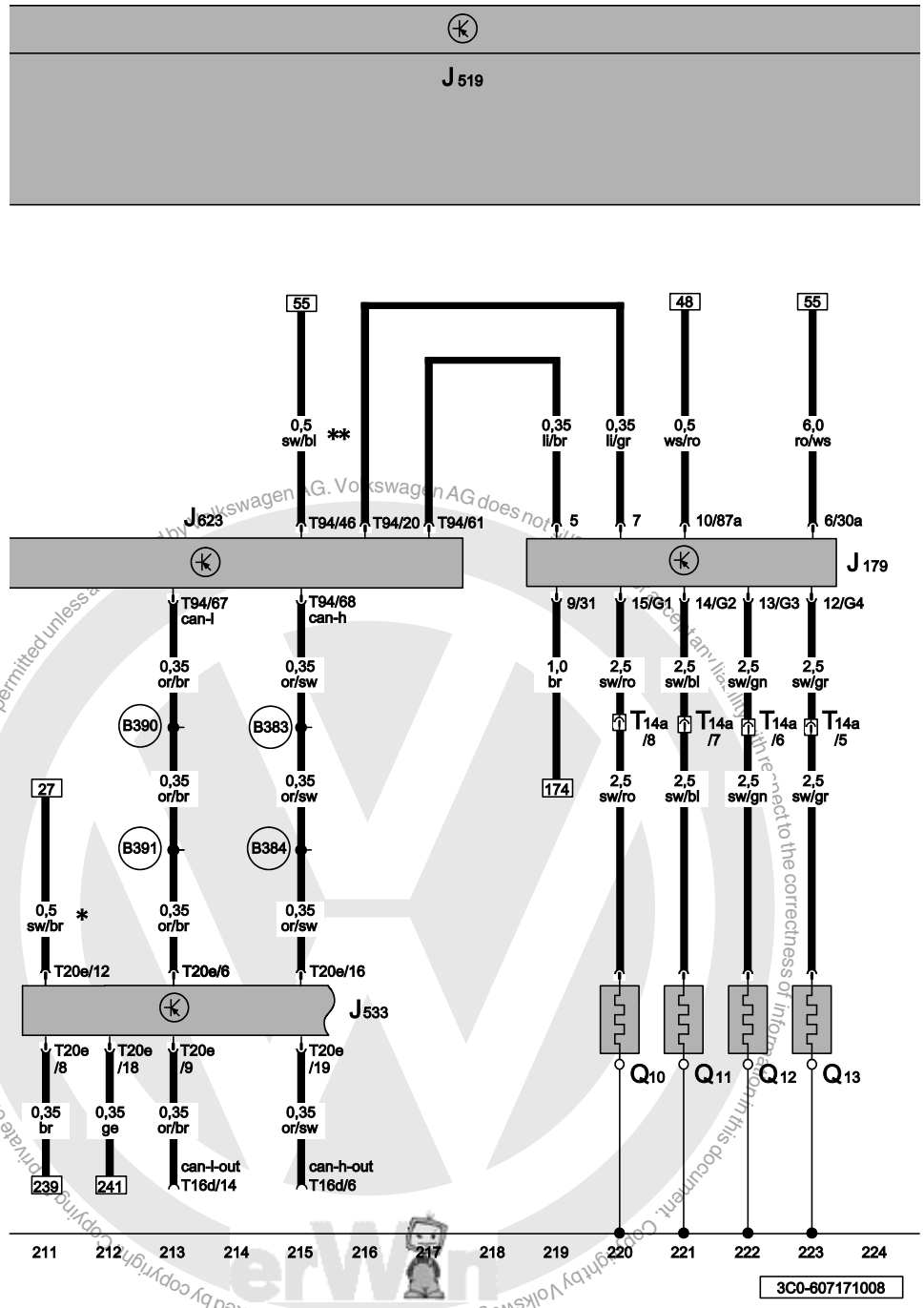


Engine control unit, start/stop mode button, voltage stabiliser, starter relay

E693	Start/stop mode button
J519	Onboard supply control unit
J532	Voltage stabiliser
J623	Engine control unit
J906	Starter relay 1
J907	Starter relay 2
L76	Button illumination bulb
S223	Fuse in fuse holder
T6df	6-pin connector, brown
T8t	8-pin connector
T10at	10-pin connector
T12i	12-pin connector
T94	94-pin connector
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B239	Positive connection 1 (50), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B509	Connection 3 (diagnosis), in main wiring harness
*	Only models with start/stop system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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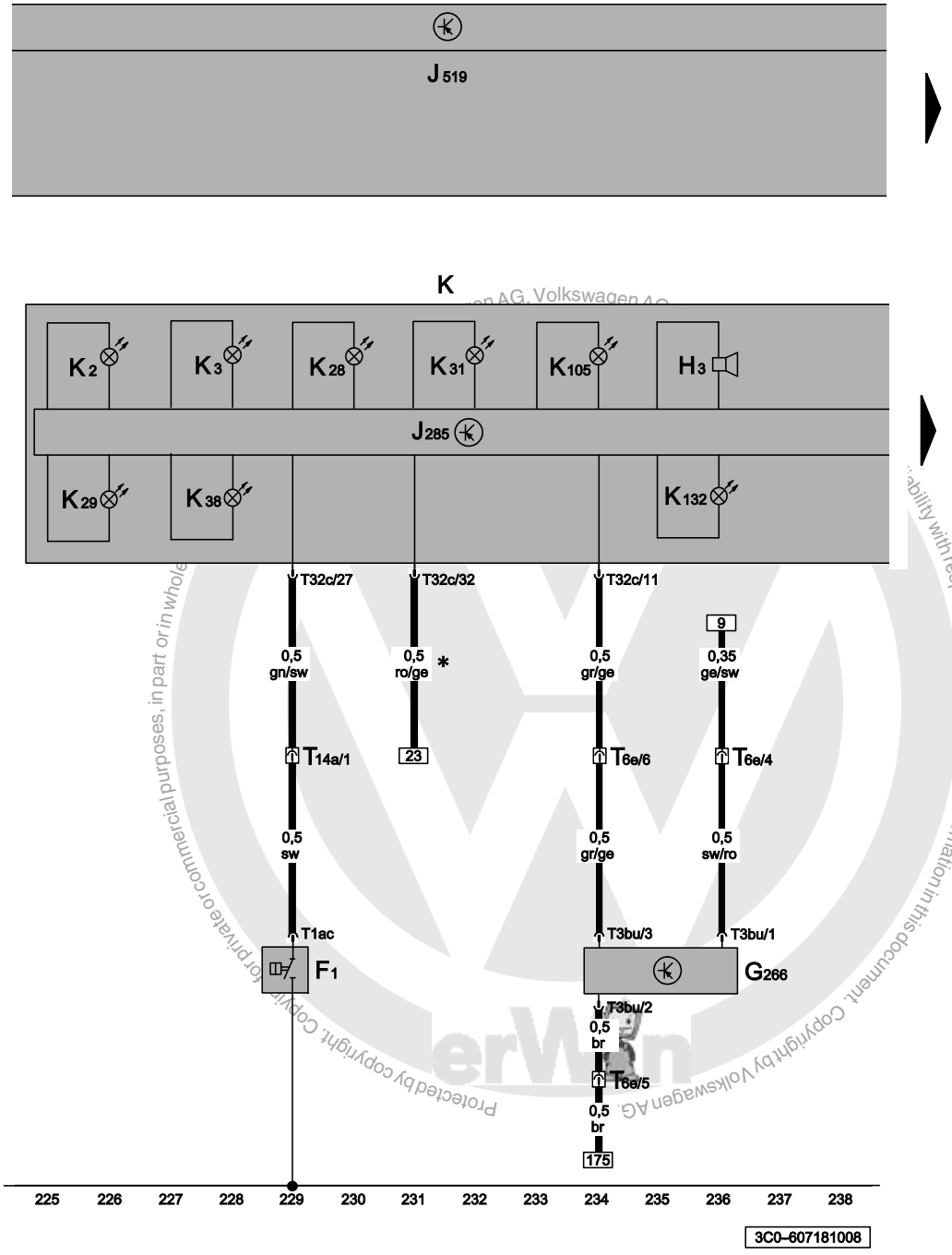


Engine control unit, automatic glow period control unit, glow plugs 1-4, data bus diagnosis interface, self-diagnosis connection

J179	Automatic glow period control unit
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Only models with start/stop system
**	Only models with no start/stop system

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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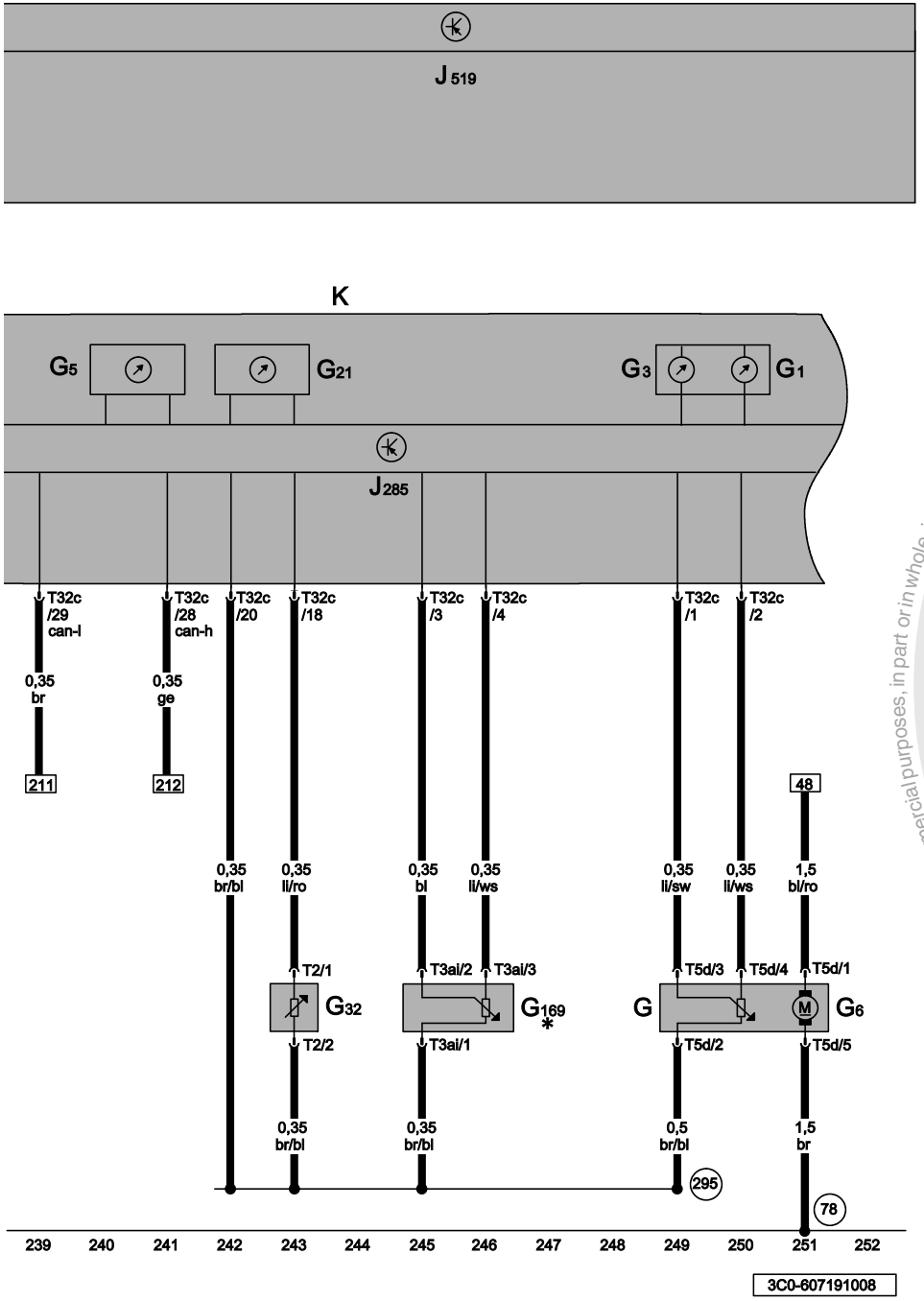


Dash panel insert, warning lamps, oil pressure switch, buzzer and gong, oil level and oil temperature sender

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, black, coupling point 1 on left in engine compartment
T32c	32-pin connector
*	Only models with start/stop system

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Dash panel insert, rev counter, speedometer, coolant temperature gauge, fuel system pressurisation pump, fuel gauge, fuel gauge sender, coolant temperature gauge, fuel gauge sender 2

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T32c	32-pin connector
(78)	Earth point, lower part of right B-pillar
(295)	Earth connection 10, in interior wiring harness
*	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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Dual clutch gearbox 0AM (DSG)

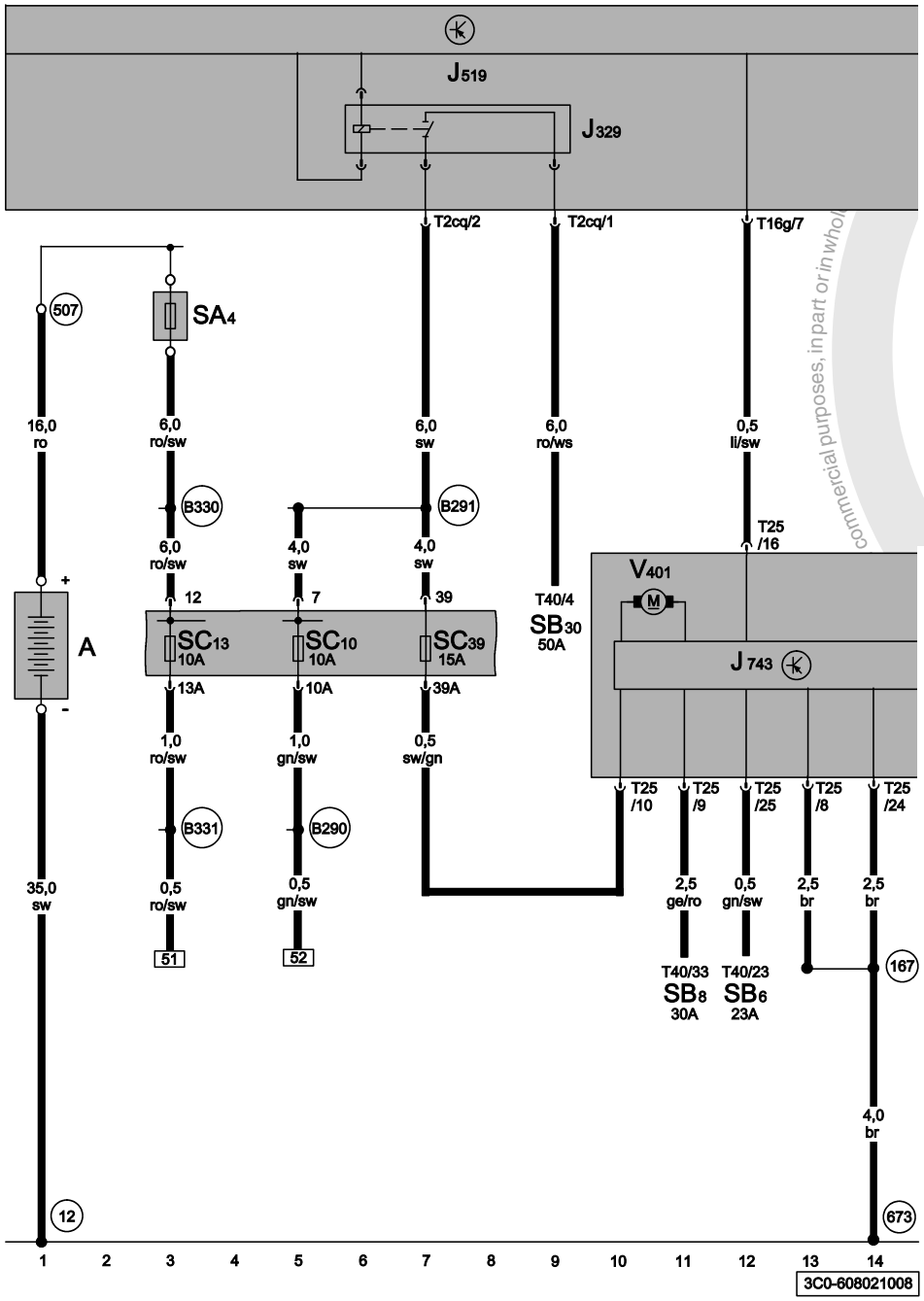
⇒ **1.4 l/90 kW engine, engine code CAXA**
⇒ **1.4 l/110 kW engine, engine code CDGA**
⇒ **1.8 l/112 kW engine, engine code CGYA**
⇒ **1.8 l/118 kW engine, engine code BZB**
From May 2008

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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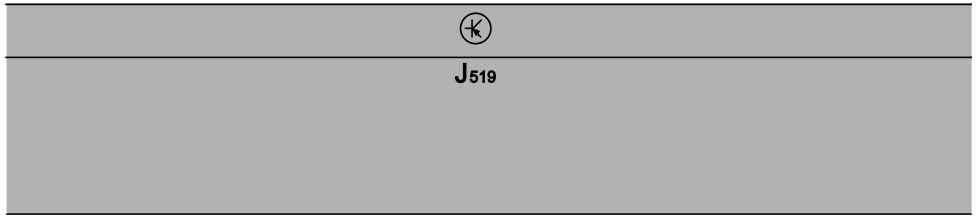


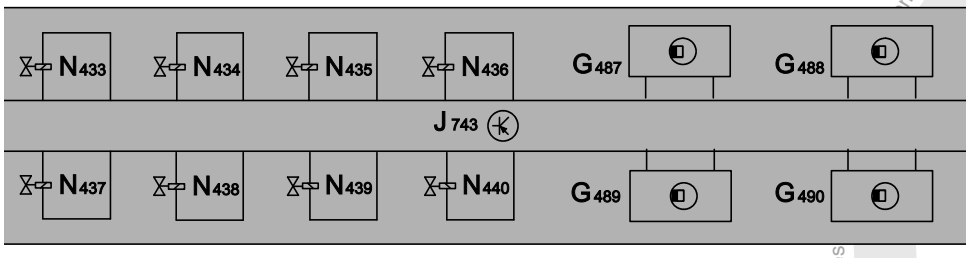
Battery, terminal 15 voltage supply relay 2, mechatronic unit for dual clutch gearbox, hydraulic pump motor, fuses

A	Battery
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J743	Mechatronic unit for dual clutch gearbox, in gearbox
SA4	Fuse 4 on fuse holder A
SB6	Fuse 6 on fuse holder B
SB8	Fuse 8 on fuse holder B
SB30	Fuse 30 on fuse holder B
SC10	Fuse 10 on fuse holder C
SC13	Fuse 13 on fuse holder C
SC39	Fuse 39 on fuse holder C
T2cq	2-pin connector
T16g	16-pin connector, black
T25	25-pin connector
T40	40-pin connector
V401	Hydraulic pump motor
12	Earth point, on left in engine compartment
167	Earth connection 4, in engine compartment wiring harness
507	Threaded connection (30), on battery fuse holder
673	Earth point 3, on front of left longitudinal member
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B331	Connection 17 (30a), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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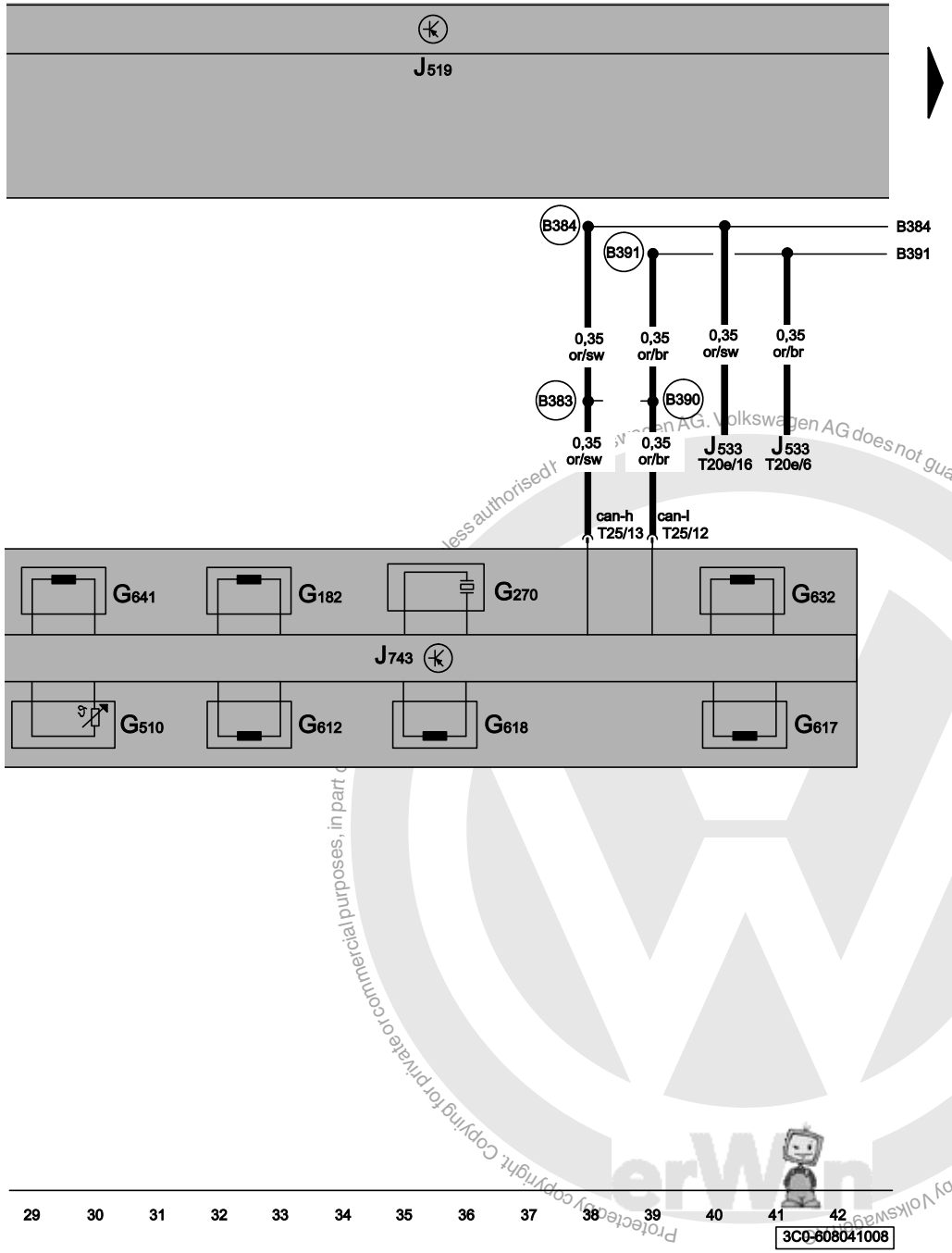
3C0-608031008

Mechatronic unit for dual clutch gearbox, gear selector movement sensors 1-4, valve in sub-gearbox

G487	Gear selector movement sensor 1
G488	Gear selector movement sensor 2
G489	Gear selector movement sensor 3
G490	Gear selector movement sensor 4
J519	Onboard supply control unit
J743	Mechatronics for dual clutch gearbox
N433	Valve 1 in sub-gearbox 1
N434	Valve 2 in sub-gearbox 1
N435	Valve 3 in sub-gearbox 1
N436	Valve 4 in sub-gearbox 1
N437	Valve 1 in sub-gearbox 2
N438	Valve 2 in sub-gearbox 2
N439	Valve 3 in sub-gearbox 2
N440	Valve 3 in sub-gearbox 2

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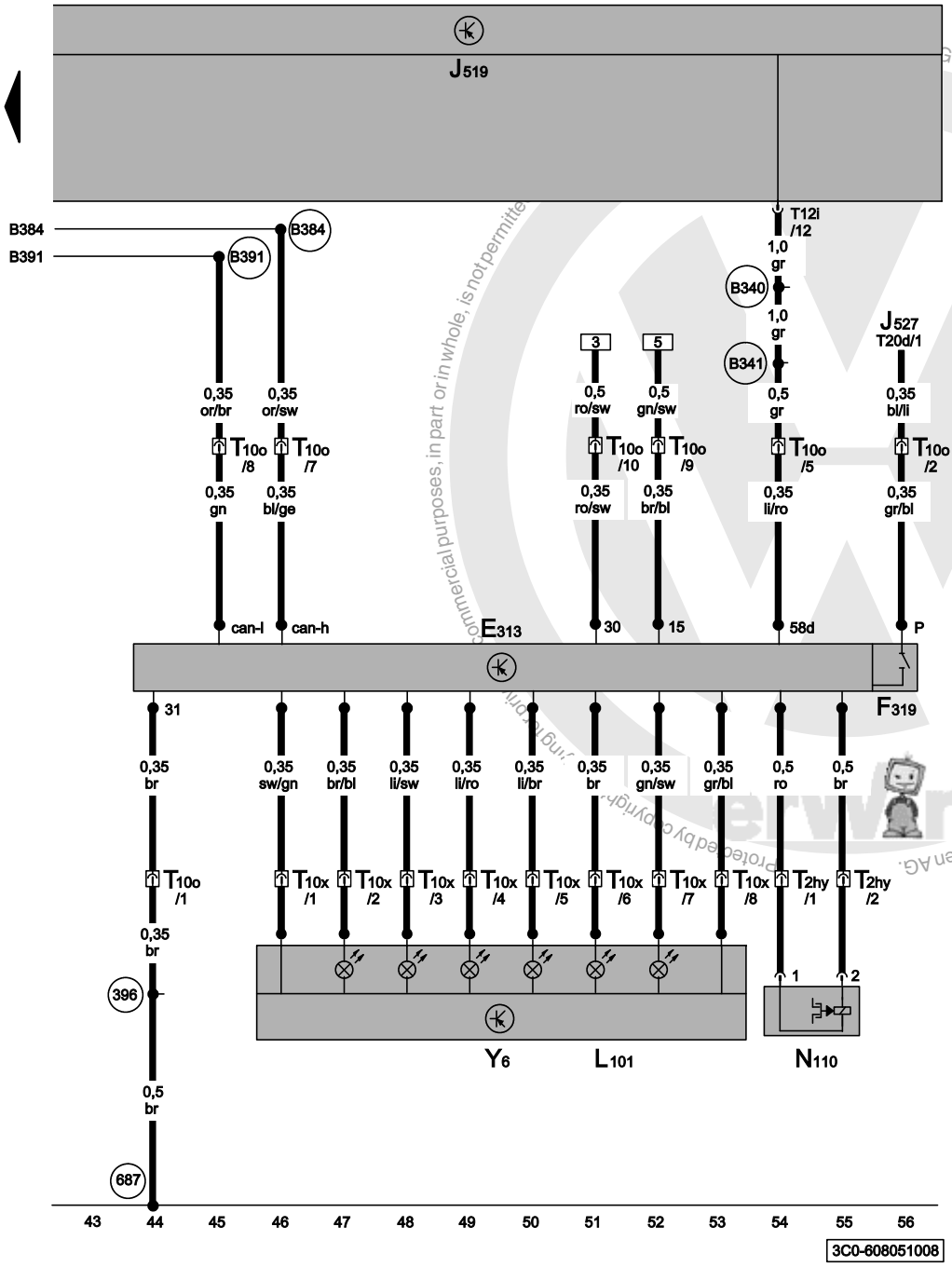


Mechatronic unit for dual clutch gearbox, gearbox input speed sender, temperature sender in control unit, clutch travel sender, gearbox hydraulic pressure sender

G182	Gearbox input speed sender
G270	Gearbox hydraulic pressure sender
G510	Temperature sender in control unit
G612	Gearbox input speed sender 2
G617	Clutch travel sender 1
G618	Clutch travel sender 2
G632	Gearbox input speed sender 1
G641	Gearbox input speed sender 3
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J743	Mechatronics for dual clutch gearbox
T20e	20-pin connector
T25	25-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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Selector lever, selector lever lock solenoid, selector lever position display

E313	Selector lever
F319	Selector lever locked in position P switch
J519	Onboard supply control unit
J527	Steering column electronics control unit
L101	Selector lever display illumination bulb
N110	Selector lever lock solenoid
T2hy	2-pin connector
T10o	10-pin connector, on gearbox
T10x	10-pin connector, black, near selector lever
T12i	12-pin connector
T20d	20-pin connector
Y6	Selector lever position display
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

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1.4 l/110 kW - Motronic, engine code CDGA, bivalent (natural gas/petrol)

From January 2009

Notes:

For information concerning

- Relay and fuse assignment
- Connectors
- Control units and relays
- Earth connections

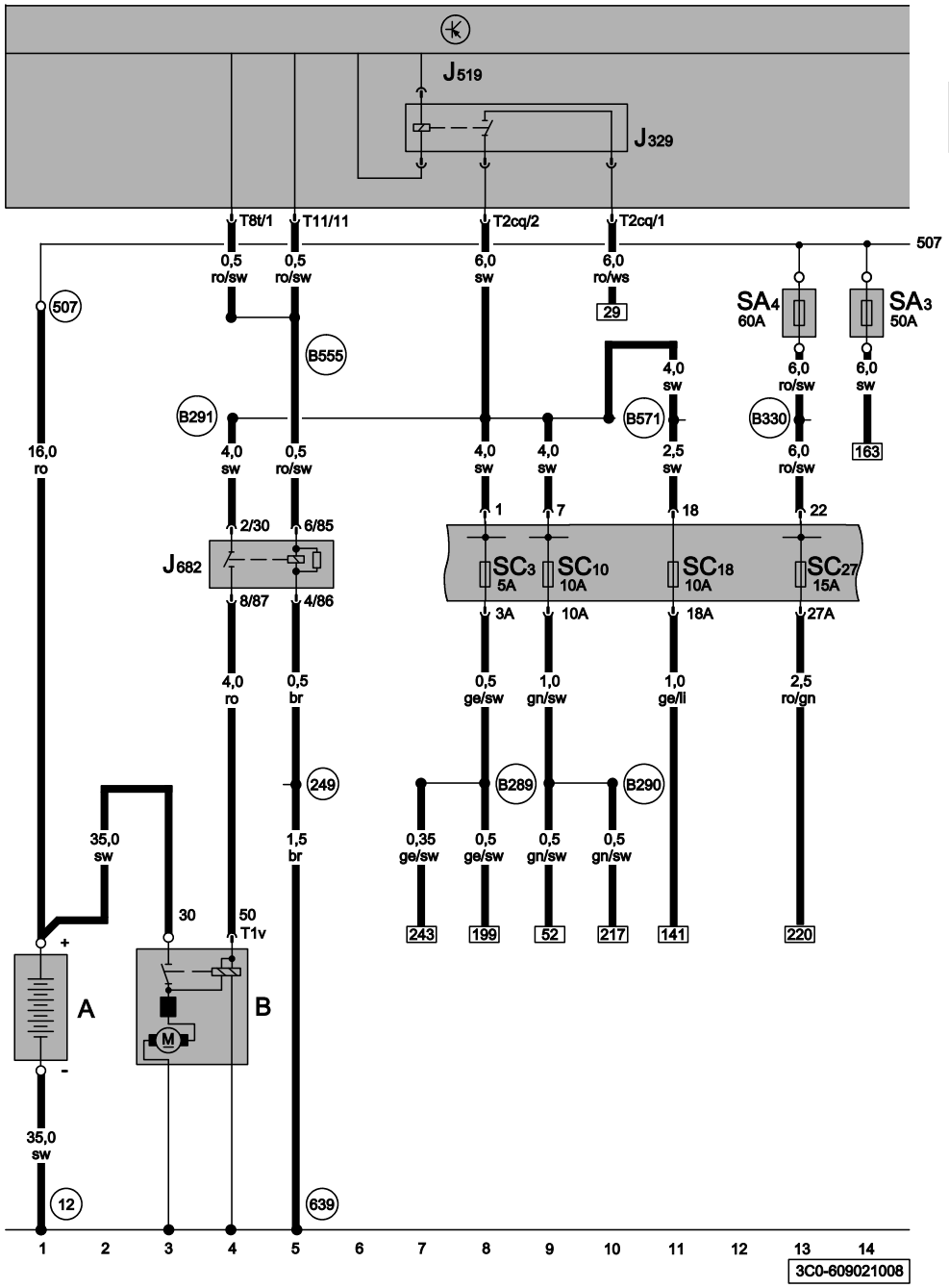
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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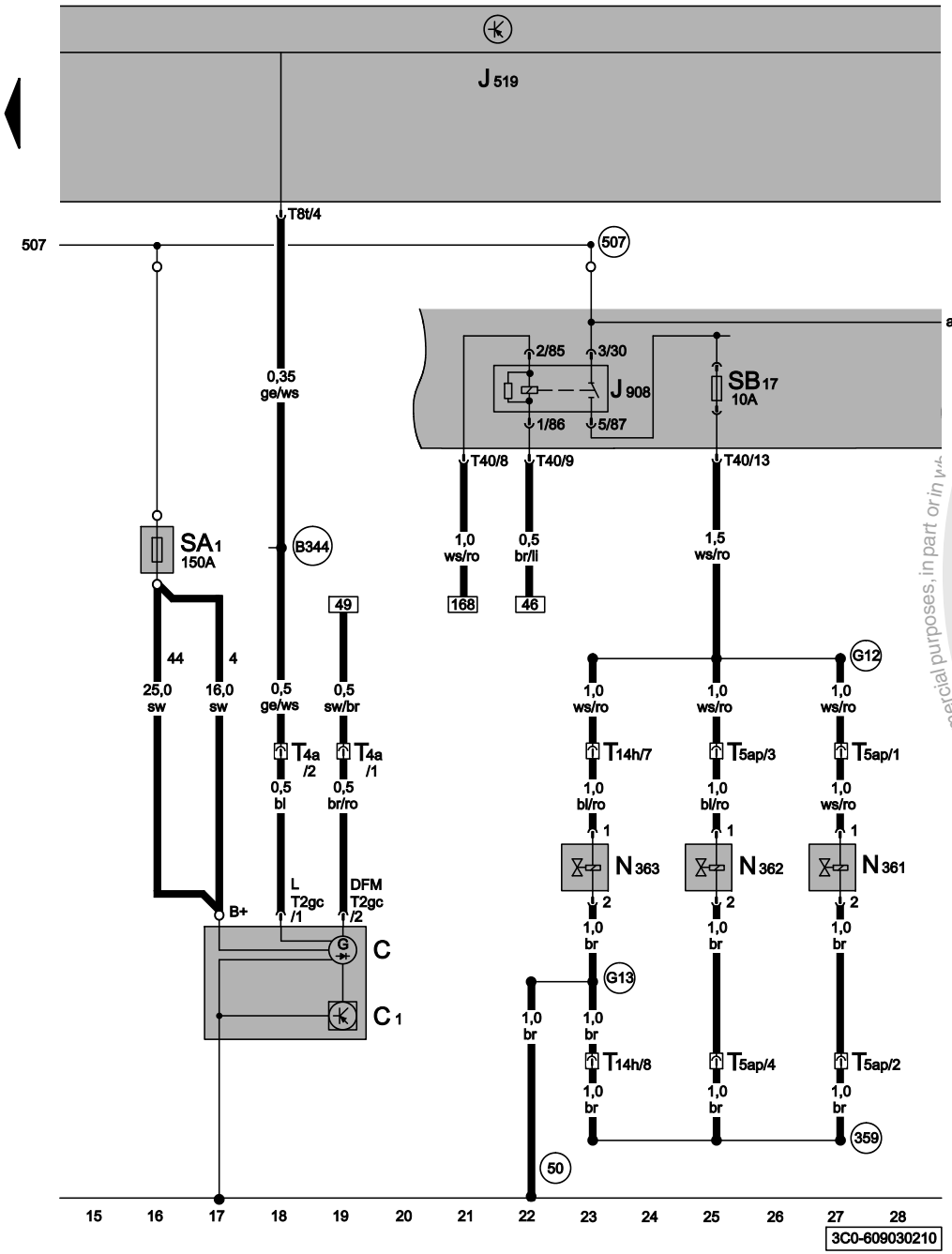


Battery, starter, terminal 15 voltage supply relay, terminal 50 voltage supply relay, fuses

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay, (53)
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
249	Earth connection 2, in interior wiring harness
507	Threaded connection (30), on battery fuse holder
639	Earth point, left A-pillar
B289	Connection 13 (15a), in main wiring harness
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B330	Connection 19 (30a), in main wiring harness
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
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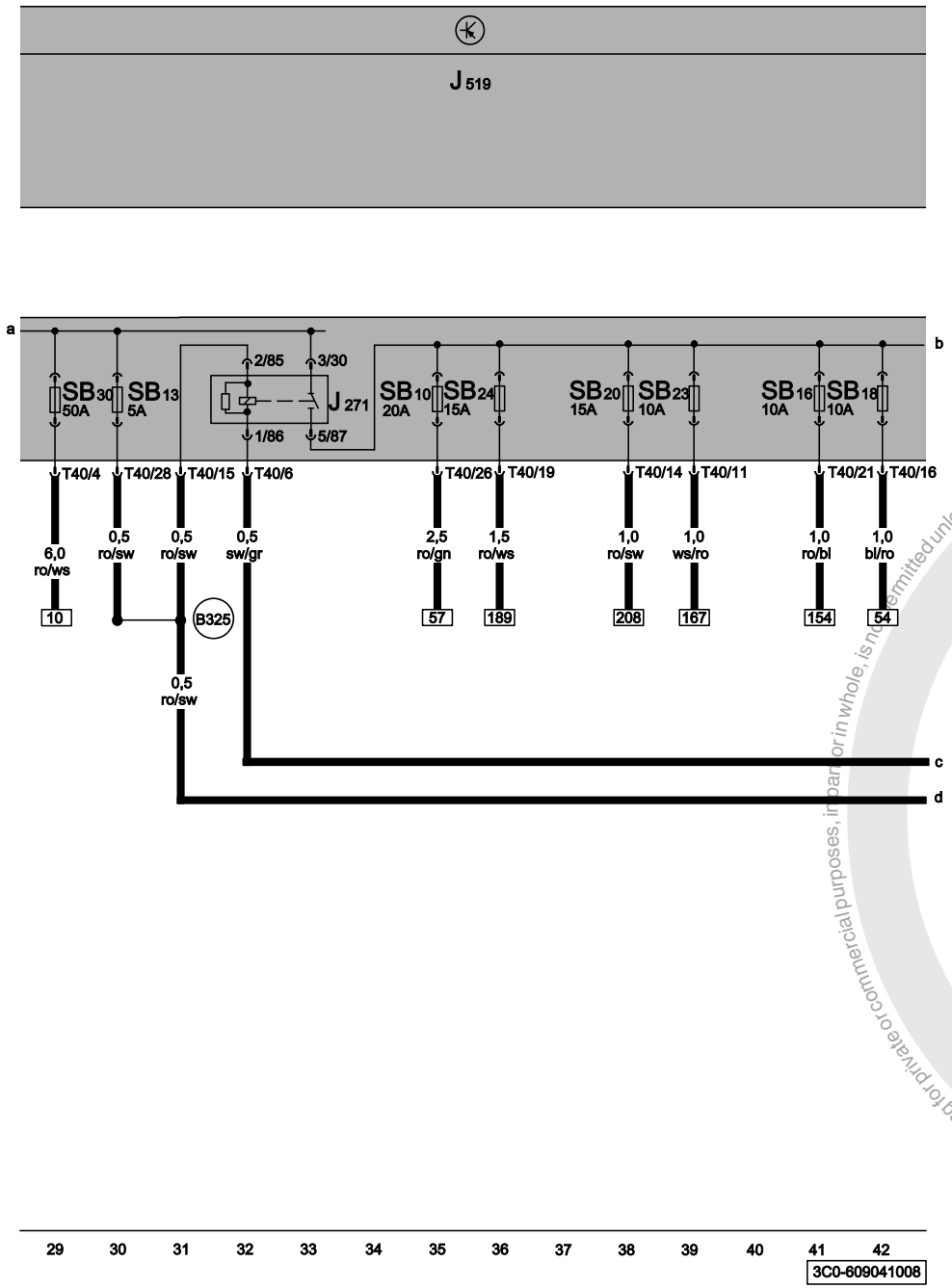


Alternator, tank shut-off valves, gas shut-off valve relay, fuses

C	Alternator
C1	Voltage regulator
J908	Gas shut-off valve relay (100)
J519	Onboard supply control unit
N361	Fuel tank shut-off valve 1
N362	Fuel tank shut-off valve 2
N363	Fuel tank shut-off valve 3
SA1	Fuse 1 on fuse holder A
SB17	Fuse 17 on fuse holder B
T2gc	2-pin connector
T4a	4-pin connector, near starter
T5ap	5-pin connector, coupling point for rear gas bottles
T8t	8-pin connector
T14h	14-pin connector, coupling point 1 for front gas bottle
T40	40-pin connector
50	Earth point, on left in luggage compartment
359	Earth connection, in gas mode wiring harness
507	Threaded connection (30), on battery fuse holder
B344	Connection 1 (61), in main wiring harness
G12	Connection 1, in gas mode wiring harness
G13	Connection 2, in gas mode wiring harness
*	Only models with 110 A alternator
**	Only models with 140 A alternator

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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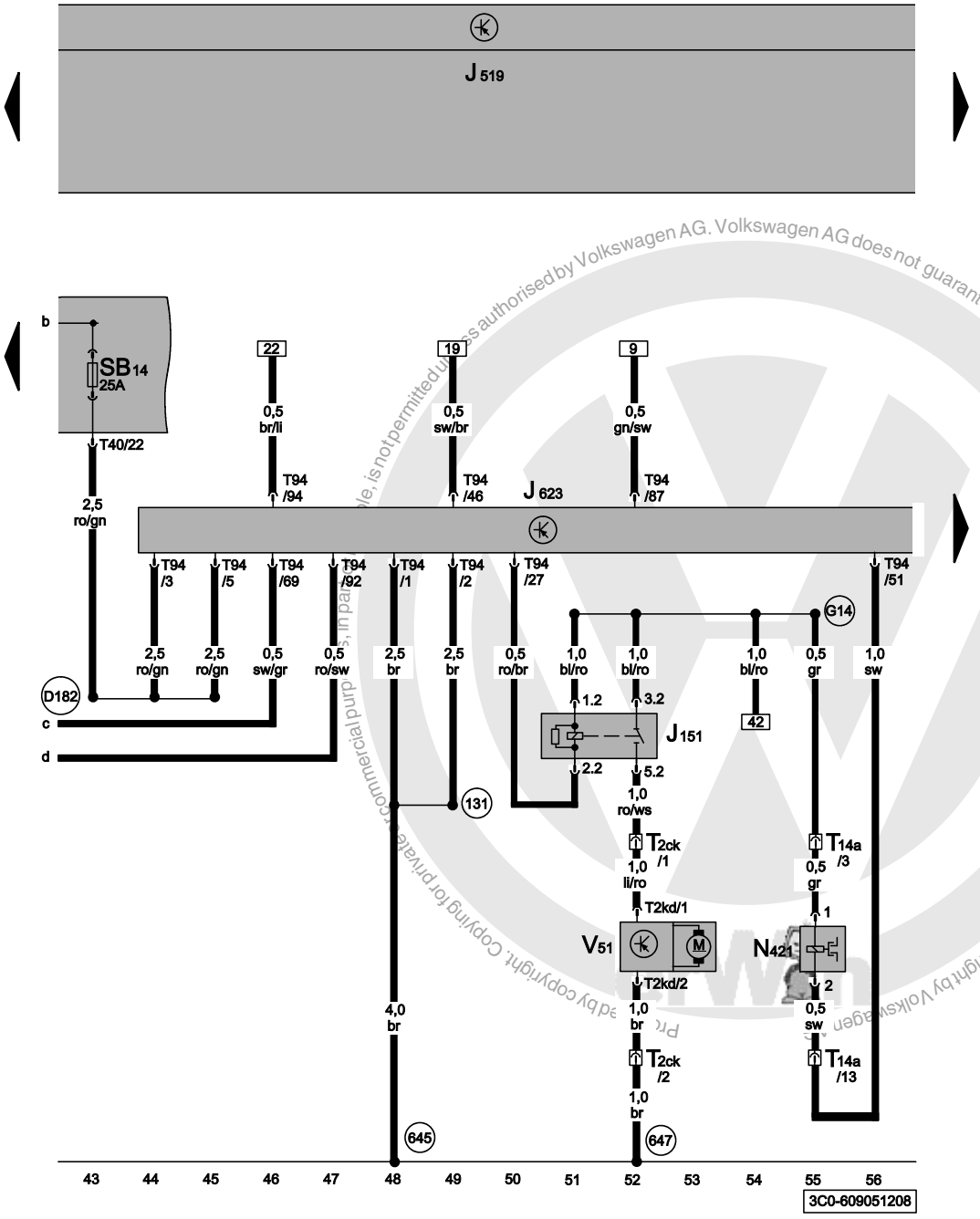


Terminal 15 voltage supply relay, fuses

J271	Motronic current supply relay (458)
J519	Onboard supply control unit
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB18	Fuse 18 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB30	Fuse 30 on fuse holder B
T40	40-pin connector
B325	Positive connection 11 (30a), in interior wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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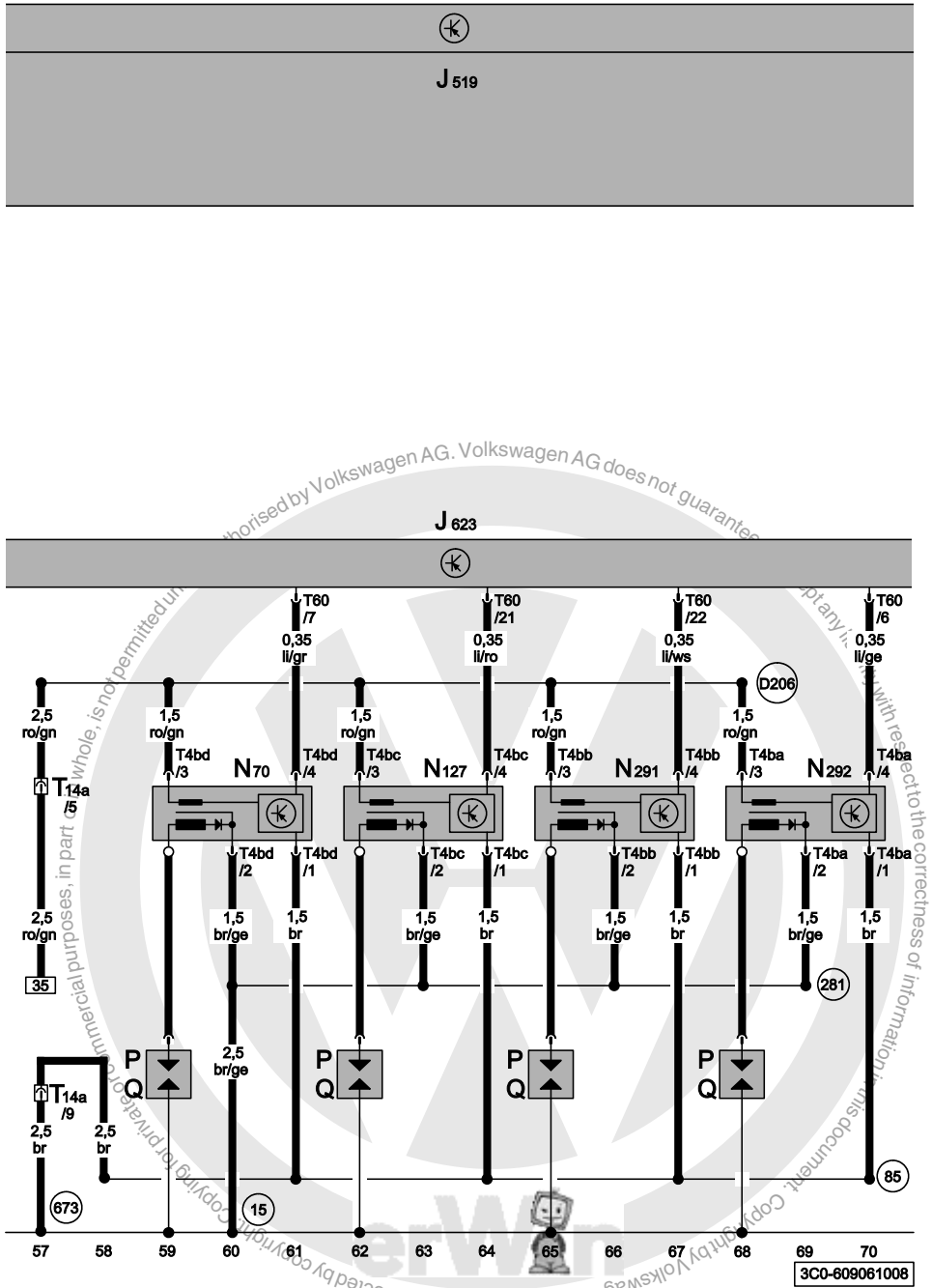


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
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rs = pink

Engine control unit, continued coolant circulation relay, continued coolant circulation pump, magnetic coupling for coolant pump, fuses

J151	Continued coolant circulation relay
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
N421	Magnetic clutch for supercharger
SB14	Fuse 14 on fuse holder B
T2ck	2-pin connector
T2kd	2-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T40	40-pin connector
T94	94-pin connector
V51	Continued coolant circulation pump
131	Earth connection 2, in engine compartment wiring harness
645	Earth point 1, on bulkhead
647	Earth point 3, on bulkhead
D182	Connection 3 (87a), in engine compartment wiring harness
G14	Connection 3, in gas mode wiring harness

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Engine control unit, ignition coils with output stage

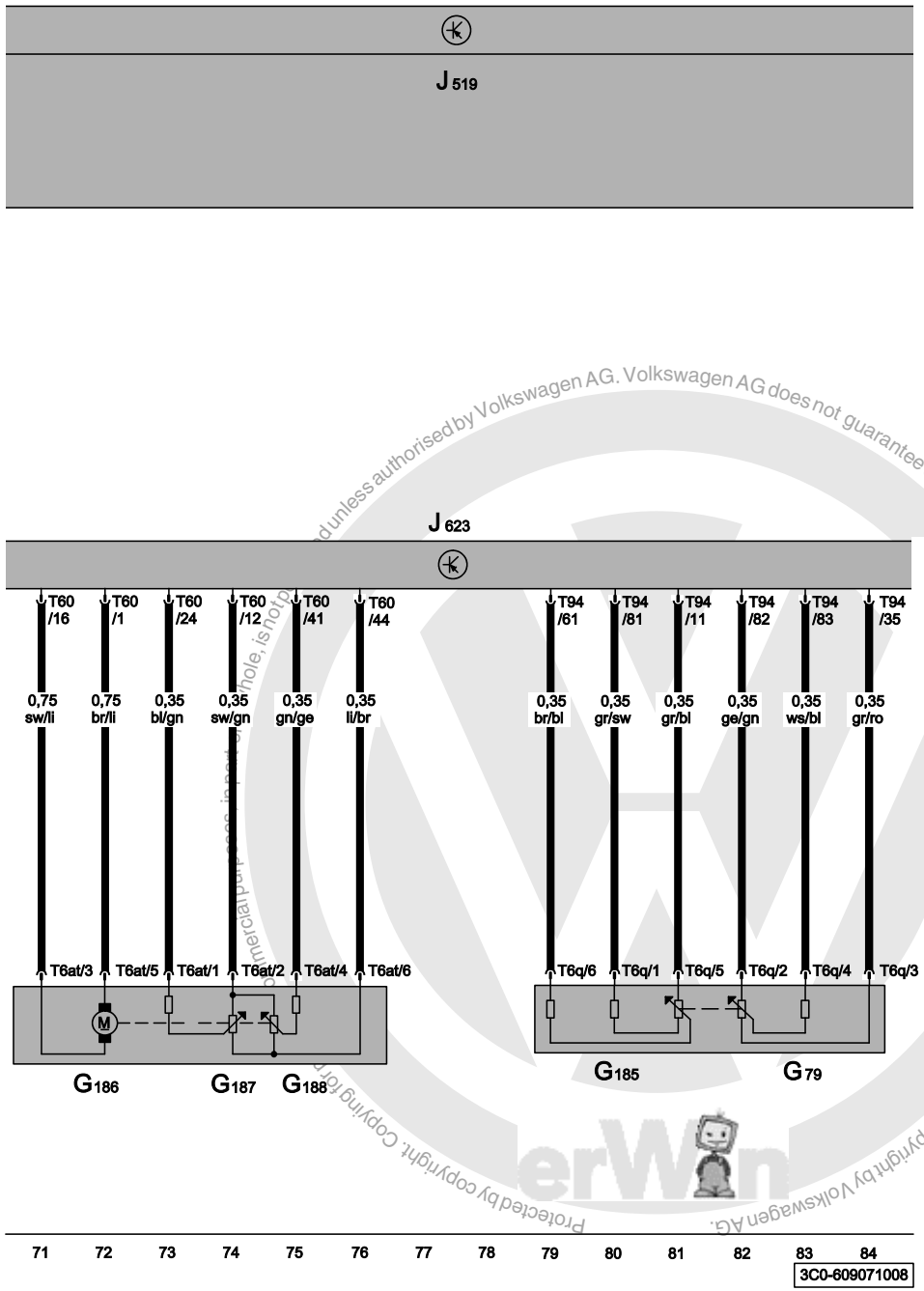
J519	Onboard supply control unit
J623	Engine control unit
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plug
T4ba	4-pin connector
T4bb	4-pin connector
T4bc	4-pin connector
T4bd	4-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	60-pin connector
15	Earth point, on cylinder head
85	Earth connection 1, in engine compartment wiring harness
281	Earth point 1, engine prewiring harness
673	Earth point 3, on front of left longitudinal member
D206	Connection 4 (87a) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
gr	=	grey
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Accelerator position sender, throttle valve drive for electric throttle, engine control unit

G79	Accelerator position sender
G185	Accelerator position sender 2
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J519	Onboard supply control unit
J623	Engine control unit
T6q	6-pin connector
T6at	6-pin connector
T60	60-pin connector
T94	94-pin connector

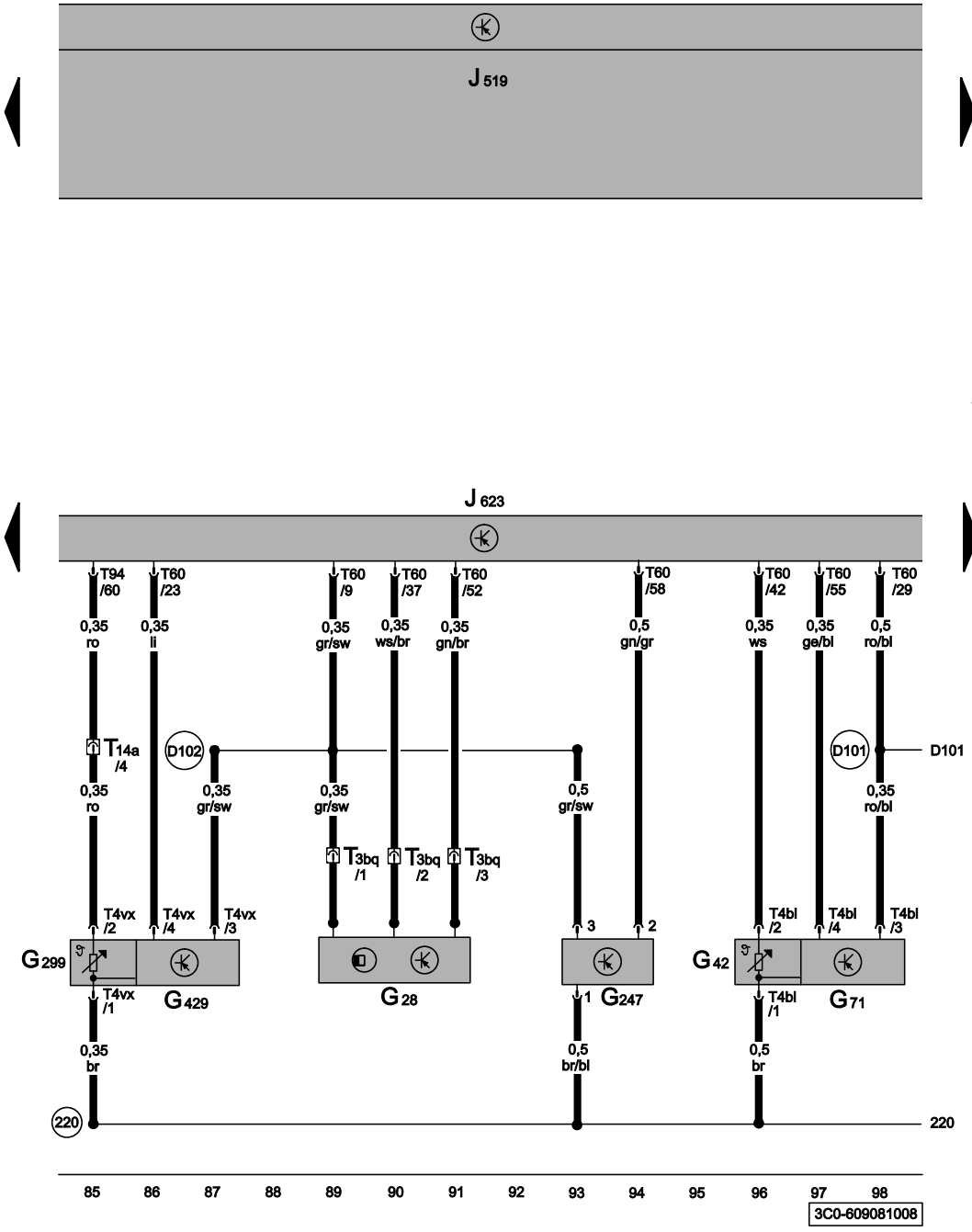


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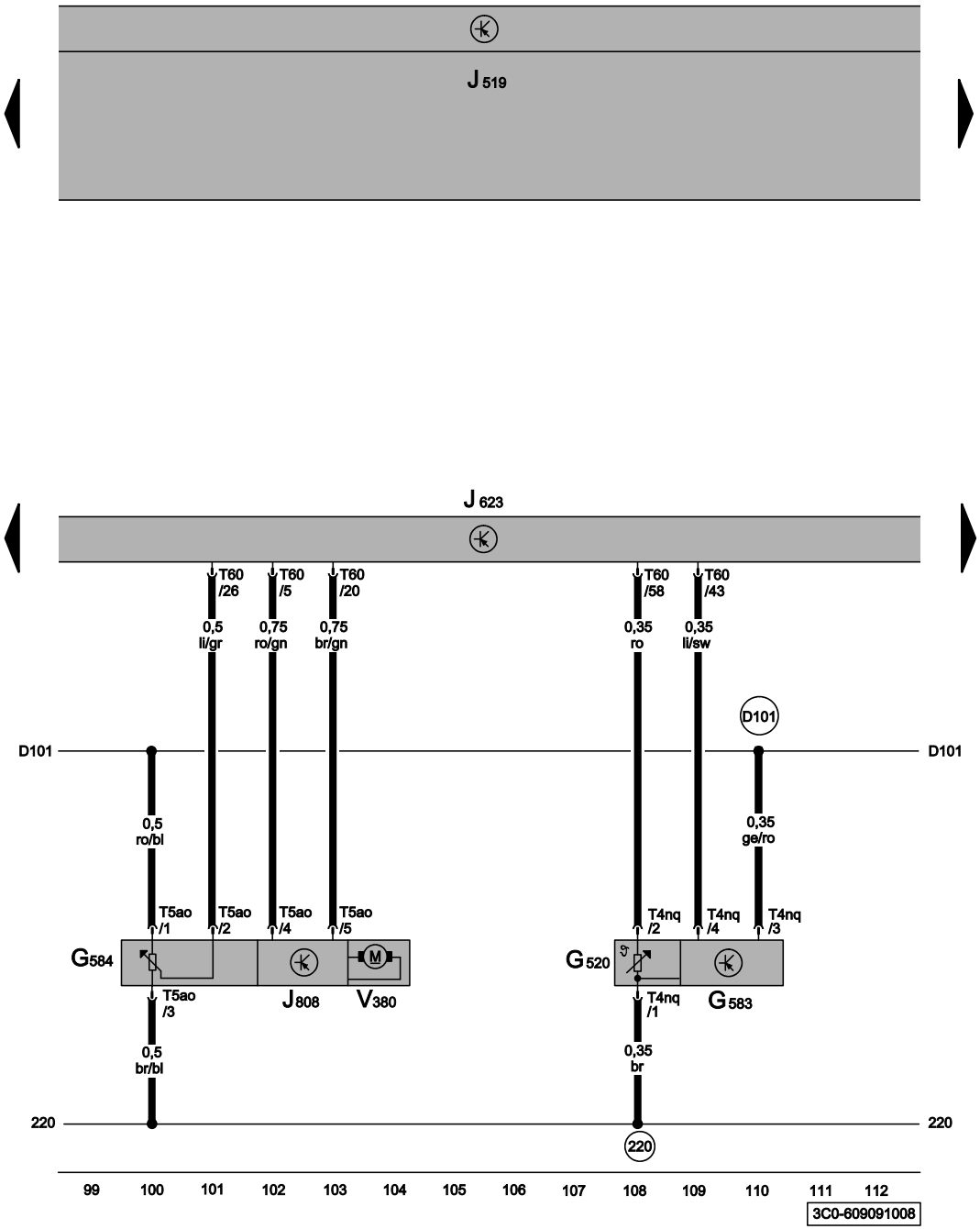
Engine control unit, engine speed sender, intake air temperature sender, intake manifold pressure sender, fuel pressure sender

G28	Engine speed sender
G42	Intake air temperature sender
G71	Intake manifold pressure sender
G247	Fuel pressure sender
G299	Intake air temperature sender 2
G429	Intake manifold pressure sender 2
J519	Onboard supply control unit
J623	Engine control unit
T3bq	3-pin connector
T4bl	4-pin connector
T4vx	4-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T60	60-pin connector
T94	94-pin connector
(220)	Earth connection (sender earth), in engine wiring harness
(D101)	Connection 1, in engine compartment wiring harness
(D102)	Connection 2, in engine compartment wiring harness



ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

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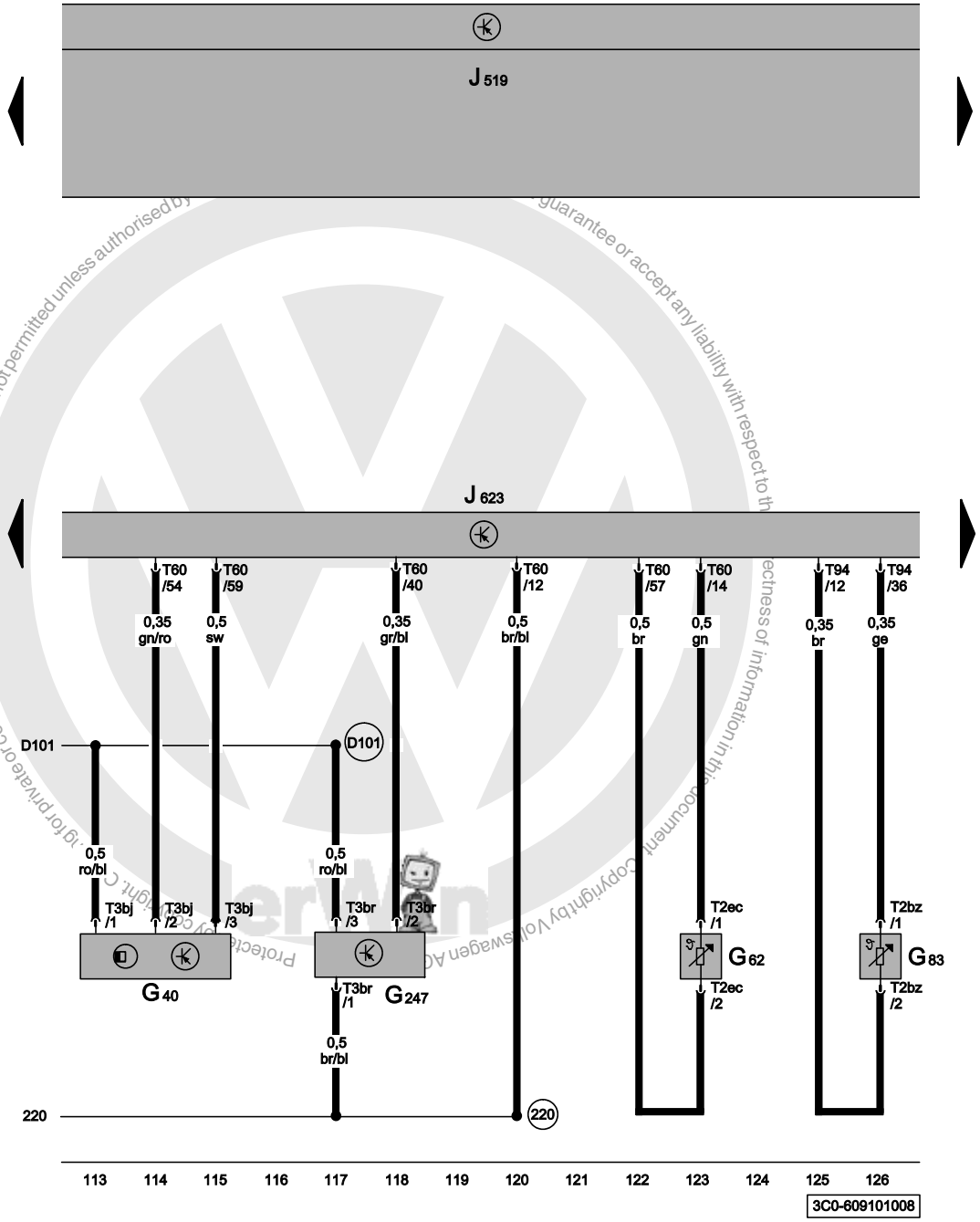


Engine control unit, intake air temperature sender 3, intake manifold pressure sender 3, regulating flap potentiometer, regulating flap control unit, regulating flap position control motor

G520	Intake air temperature sender 3
G583	Intake manifold pressure sender 3
G584	Regulating flap potentiometer
J519	Onboard supply control unit
J623	Engine control unit
J808	Regulating flap control unit
T4nq	4-pin connector
T5ao	5-pin connector
T60	60-pin connector
V380	Regulating flap position control motor
220	Earth connection (sender earth), in engine wiring harness
D101	Connection 1, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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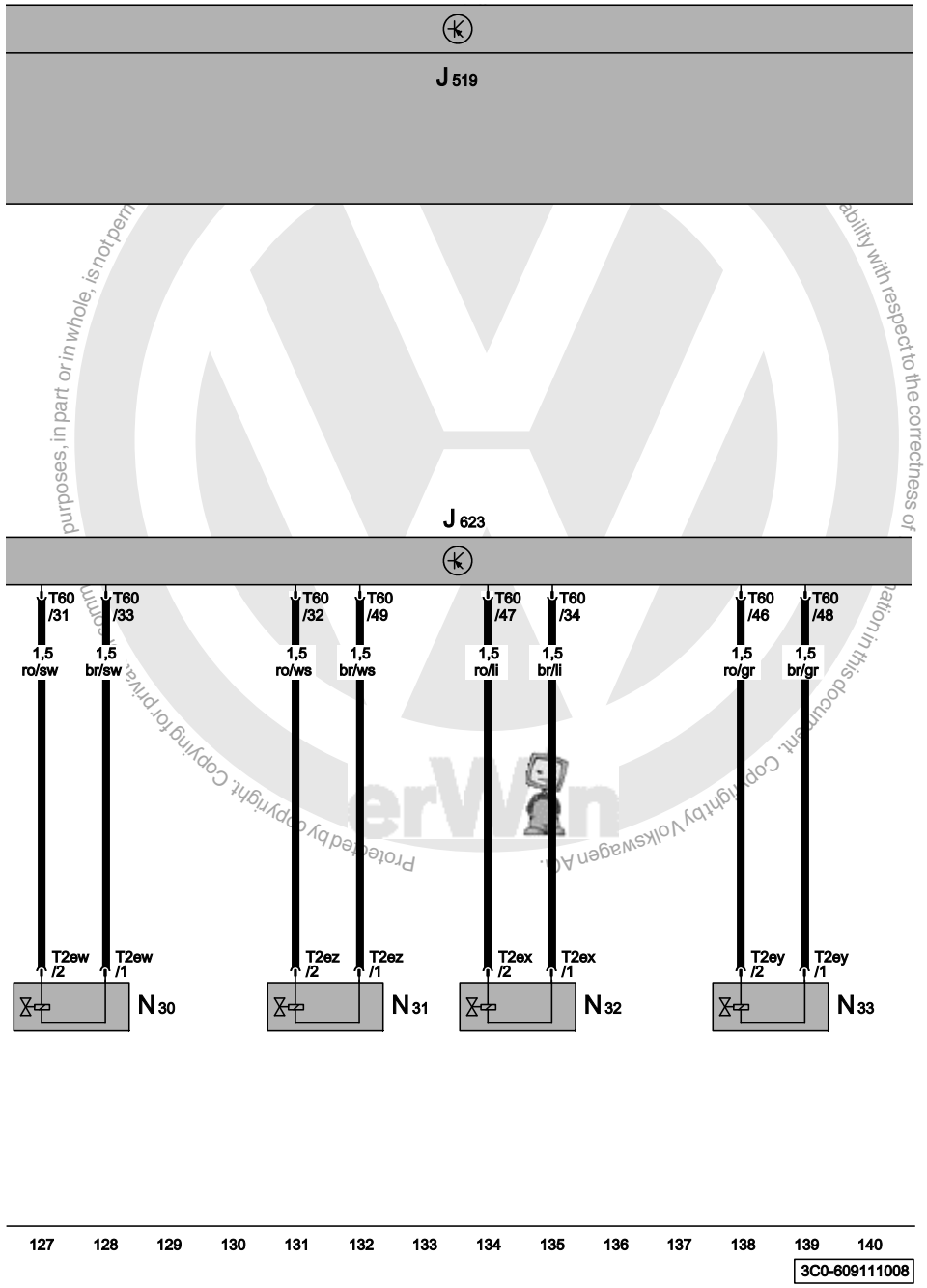


Engine control unit, Hall sender, coolant temperature sender, fuel pressure sender, radiator outlet coolant temperature sender

G40	Hall sender
G62	Coolant temperature sender
G83	Radiator outlet coolant temperature sender
G247	Fuel pressure sender
J519	Onboard supply control unit
J623	Engine control unit
T2bz	2-pin connector, black
T2ec	2-pin connector
T3bj	3-pin connector
T3br	3-pin connector
T60	60-pin connector
T94	94-pin connector
220	Earth connection (sender earth), in engine wiring harness
D101	Connection 1, in engine compartment wiring harness

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
bl	=	blue
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Engine control unit, injectors

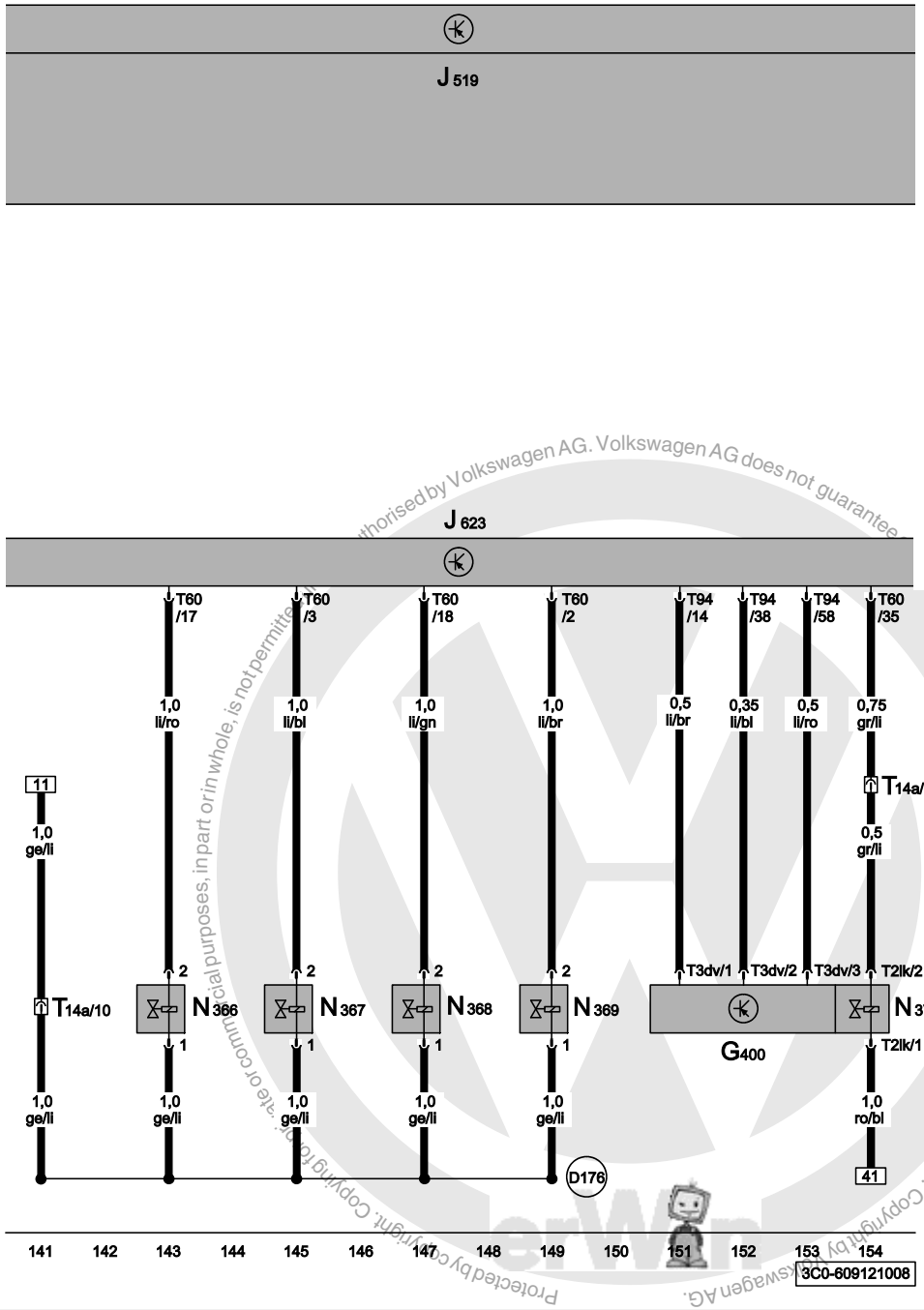
J519	Onboard supply control unit
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T2ew	2-pin connector
T2ex	2-pin connector
T2ey	2-pin connector
T2ez	2-pin connector
T60	60-pin connector

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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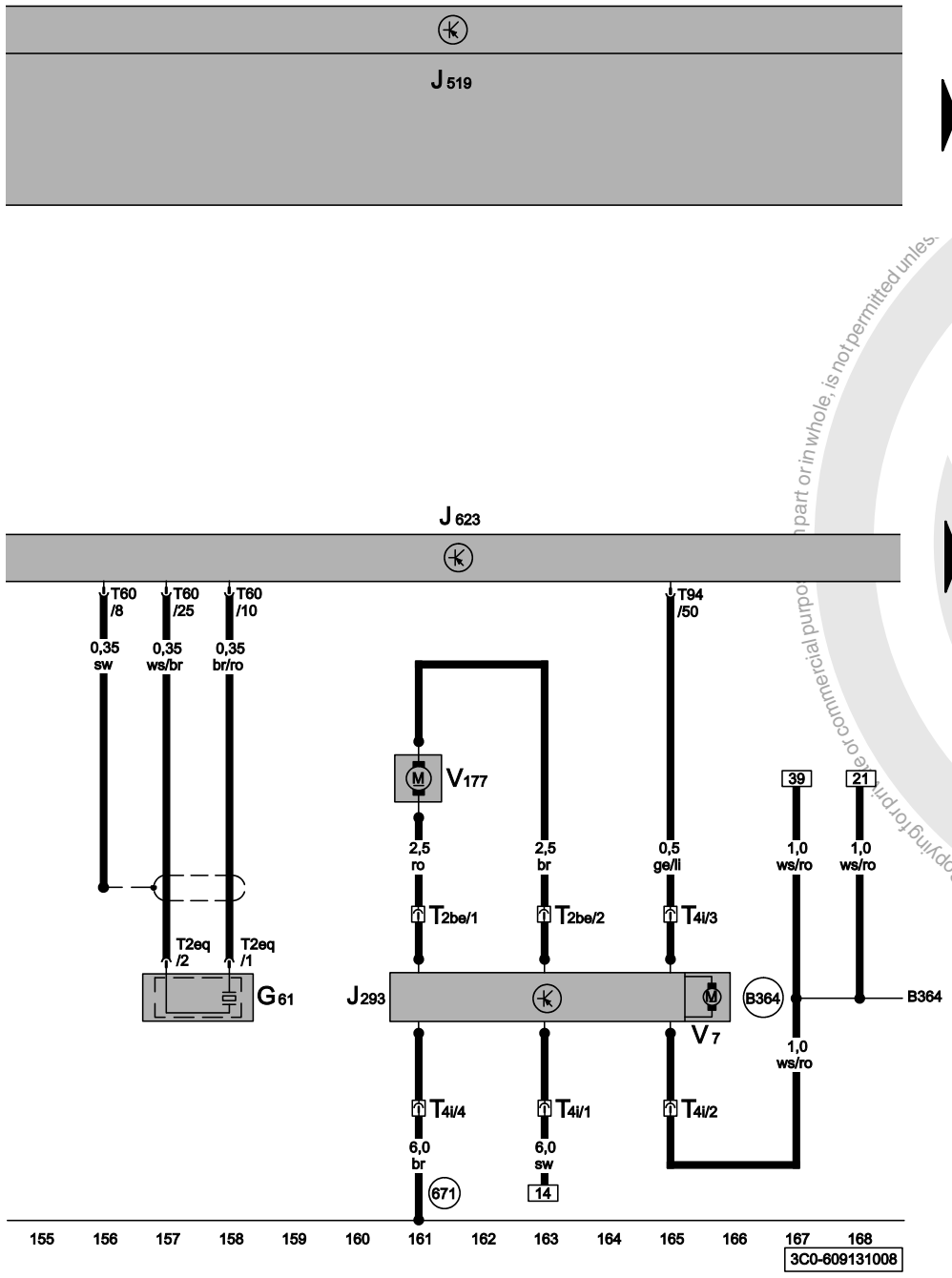
Engine control unit, tank pressure sender, gas injection valve, high-pressure valve for gas mode

G400	Tank pressure sensor
J519	Onboard supply control unit
J623	Engine control unit, in centre of plenum chamber
N366	Gas injection valve 1
N367	Gas injection valve 2
N368	Gas injection valve 3
N369	Gas injection valve 4
N372	High-pressure valve for gas mode
T2lk	2-pin connector
T3dv	3-pin connector, black, on high-pressure valve for gas mode
T14a	14-pin connector, black, near battery
T60	60-pin connector
T94	94-pin connector
D176	Connection (gas injector), in engine compartment wiring harness



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sw	=	black
ro	=	red
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gn	=	green
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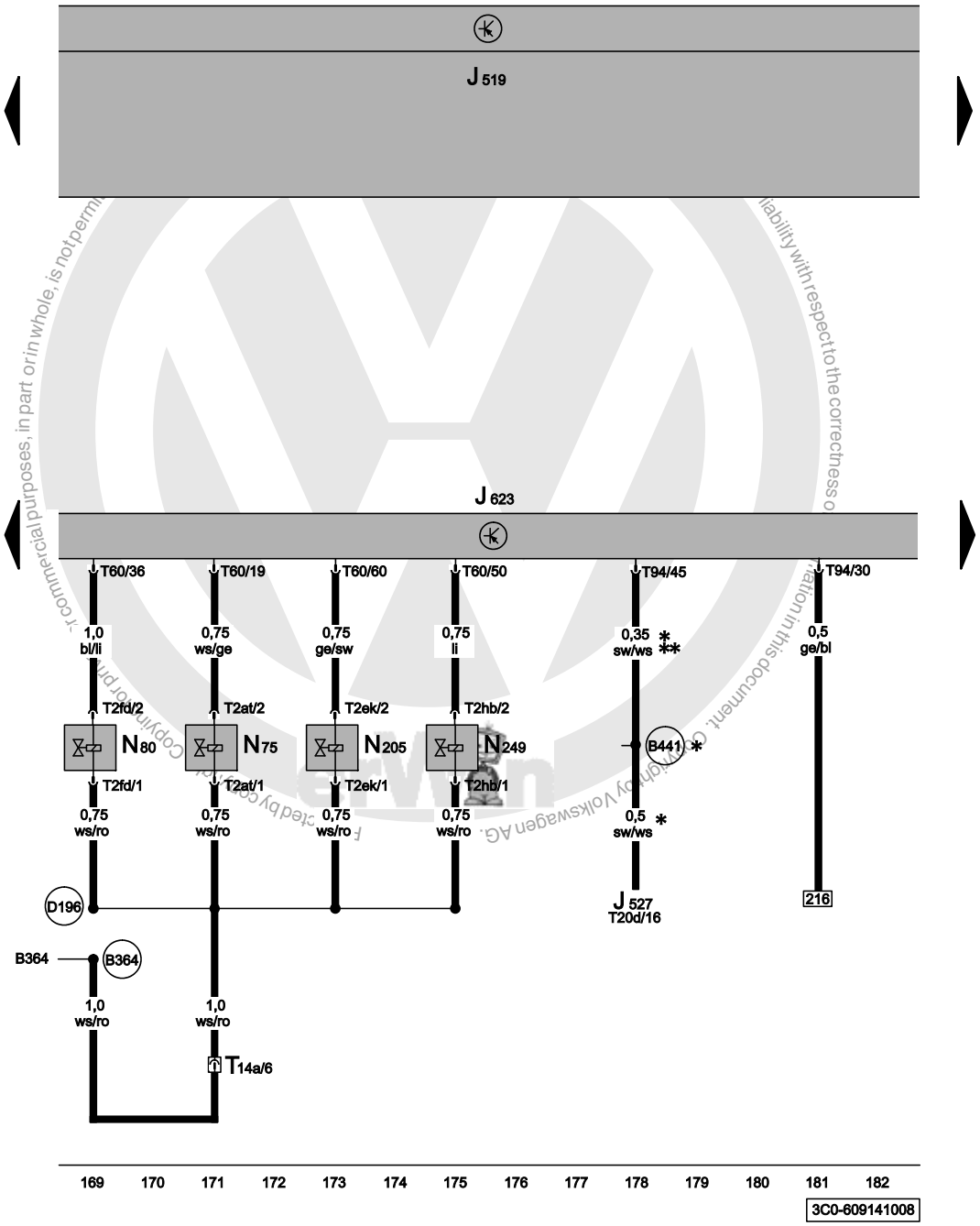


Engine control unit, knock sensor 1, radiator fan control unit, radiator fan

G61	Knock sensor 1
J293	Radiator fan control unit
J519	Onboard supply control unit
J623	Engine control unit
T2be	2-pin connector, on lock carrier
T2eq	2-pin connector
T4i	4-pin connector, black, coupling point, radiator fan on centre lock carrier
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
(671)	Earth point 1, on front of left longitudinal member
(B364)	Connection 15 (87a), in main wiring harness

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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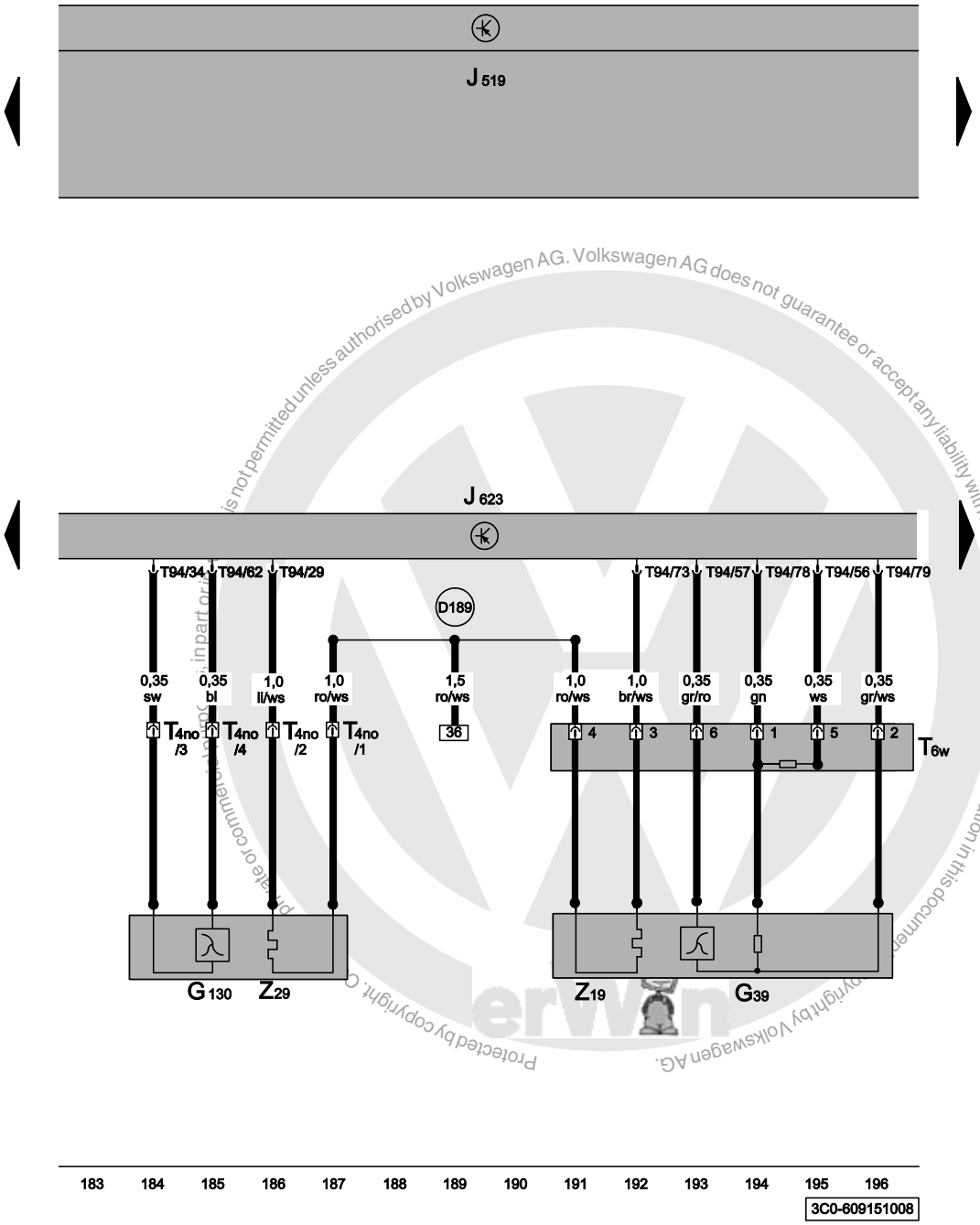


Engine control unit, charge pressure control solenoid valve, activated charcoal filter system solenoid valve 1, camshaft control valve 1, turbocharger air recirculation valve

J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
N75	Charge pressure control solenoid valve
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N249	Turbocharger air recirculation valve
T2at	2-pin connector
T2ek	2-pin connector
T2fd	2-pin connector
T2hb	2-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T20d	20-pin connector
T60	60-pin connector
T94	94-pin connector
B364	Connection 15 (87a), in main wiring harness
B441	Connection (CCS), in main wiring harness
D196	Connection 2 (87a) in engine prewiring harness
*	Only models with adaptive cruise control
**	Only models with CCS

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sw	=	black
ro	=	red
br	=	brown
gn	=	green
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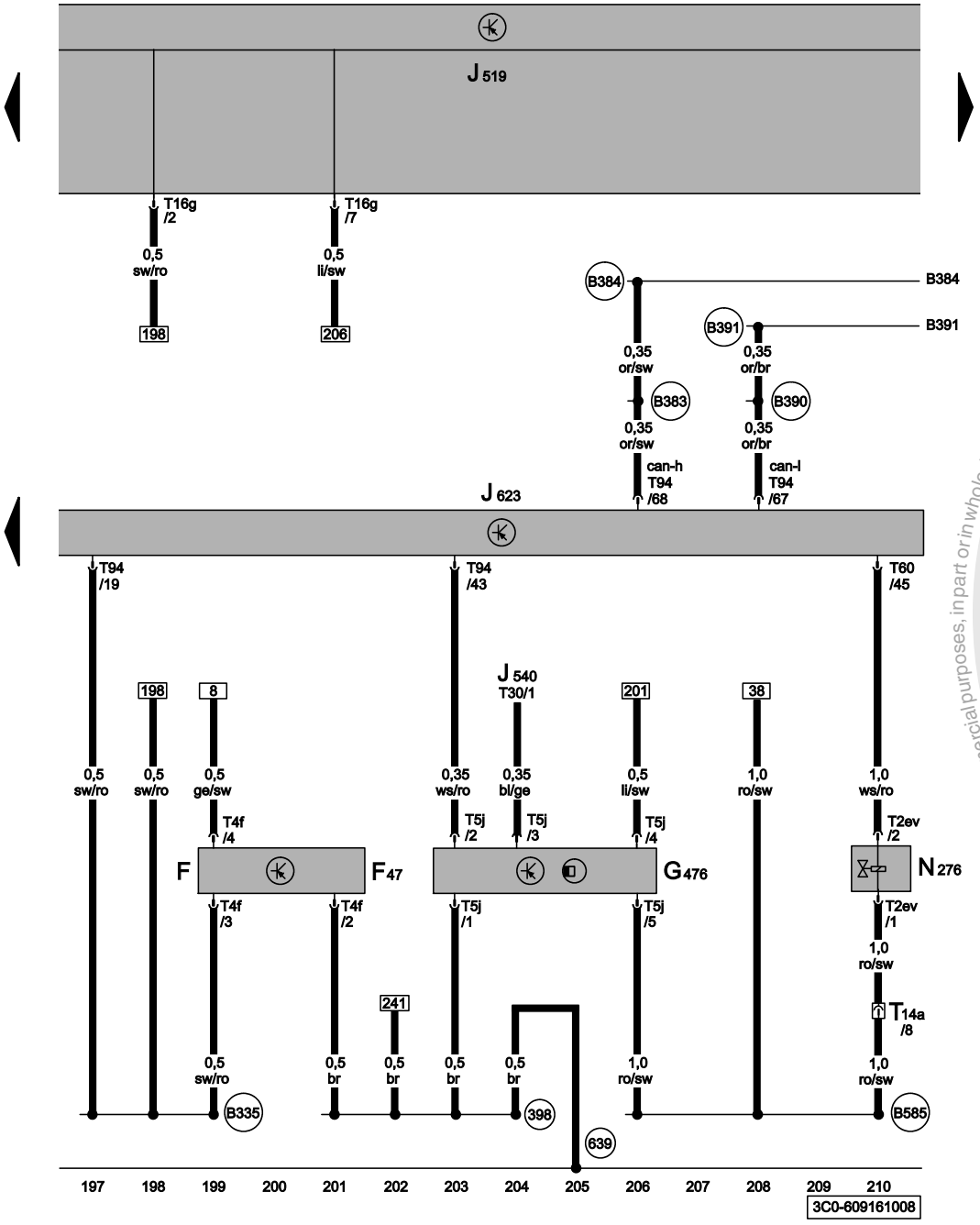


Engine control unit, Lambda probe, Lambda probe after catalytic converter, Lambda probe heater

G39	Lambda probe
G130	Lambda probe after catalytic converter
J519	Onboard supply control unit
J623	Engine control unit
T4no	4-pin connector
T6w	6-pin connector
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
(D189)	Connection (87a) in engine prewiring harness

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sw	=	black
ro	=	red
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gn	=	green
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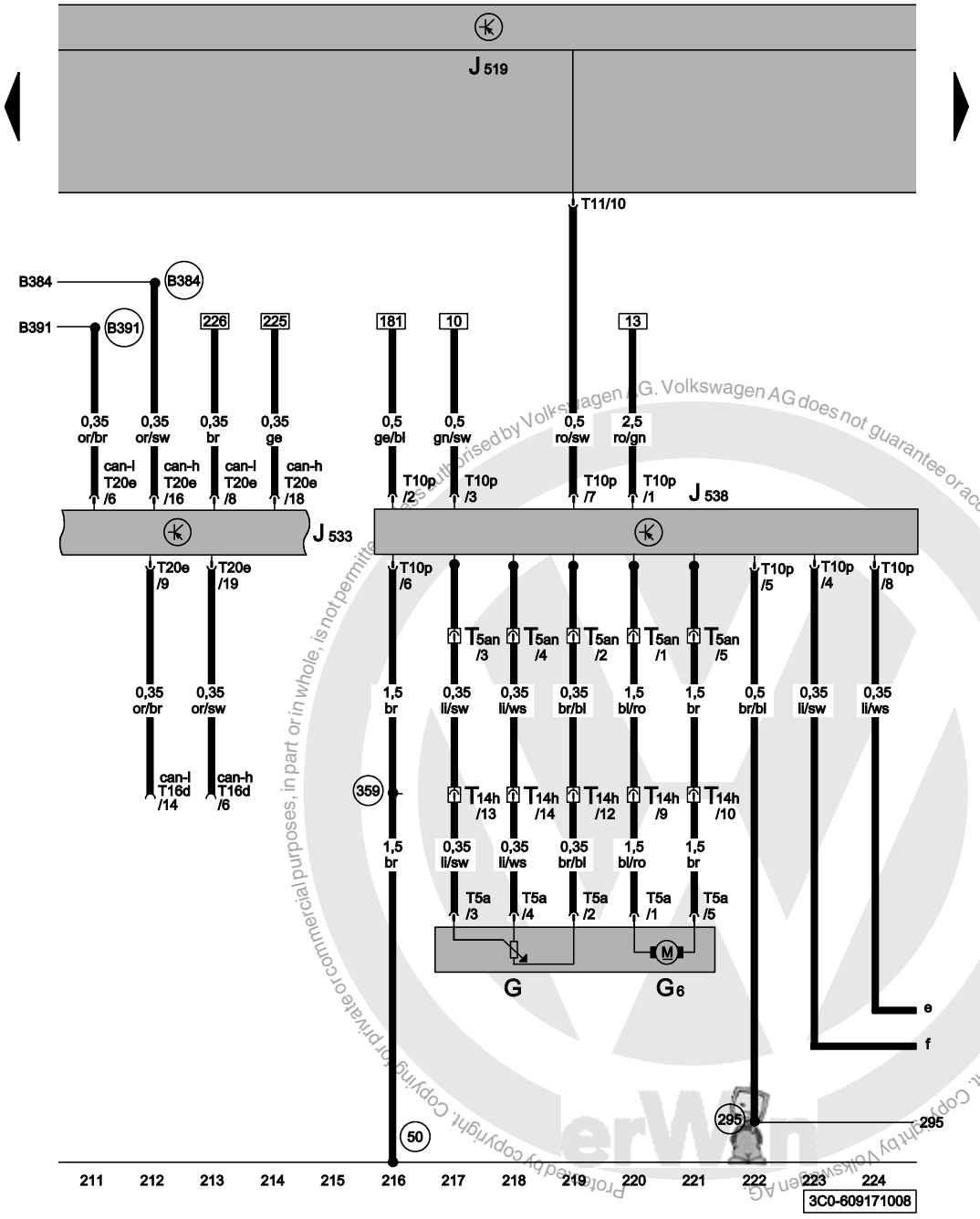


Engine control unit, clutch position sender, brake light switch, brake pedal switch, fuel pressure regulating valve

F	Brake light switch
F47	Brake pedal switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
N276	Fuel pressure regulating valve
T2ev	2-pin connector
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, coupling point 1 on left in engine compartment
T16g	16-pin connector
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B585	Positive connection 2 (87a), in interior wiring harness

ws	=	white
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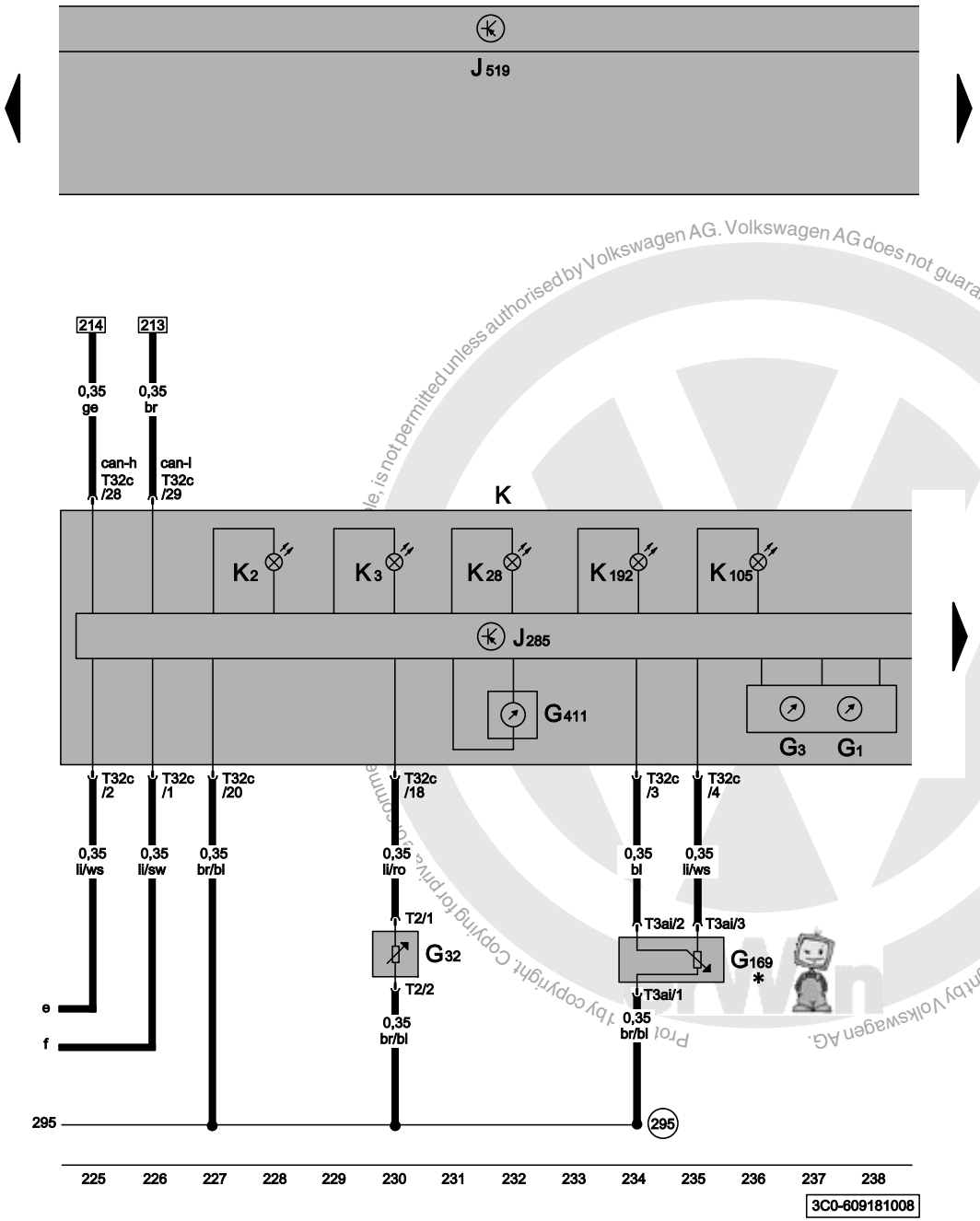


ws = white
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rs = pink

Data bus diagnosis interface, fuel pump control unit, fuel gauge sender, fuel system pressurisation pump, self-diagnosis connection

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J538	Fuel pump control unit
T5a	5-pin connector
T5an	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T14h	14-pin connector, coupling point 1 for front gas bottle
T16d	16-pin connector, self-diagnosis connection
T20e	20-pin connector
50	Earth point, on left in luggage compartment
295	Earth connection 10, in interior wiring harness
359	Earth connection, in gas mode wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

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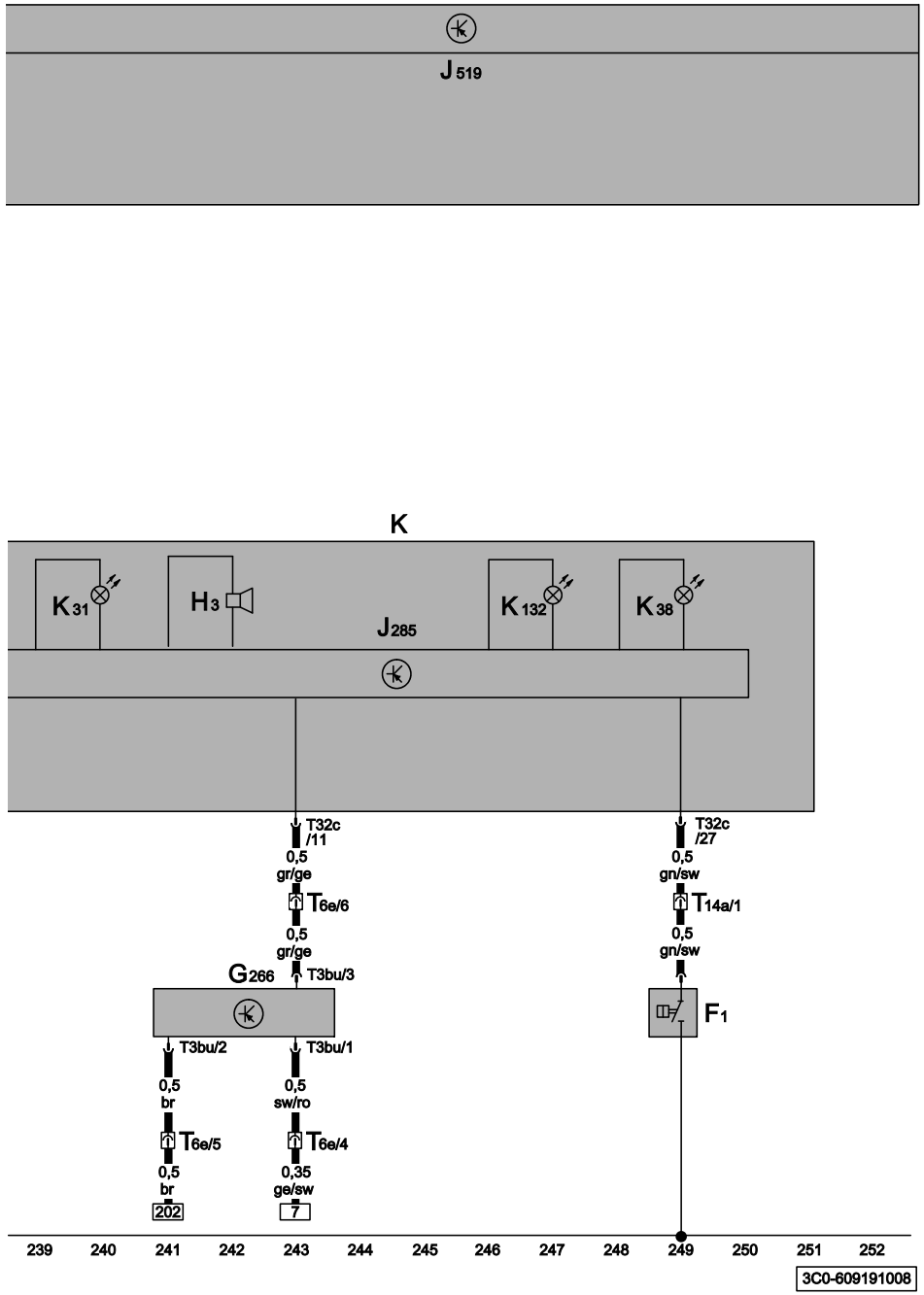


Dash panel insert, coolant shortage indicator sender, fuel gauge sender 2, fuel gauge, coolant temperature display, natural gas gauge, natural gas mode warning lamp

G1	Fuel gauge
G3	Coolant temperature display
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
G411	Natural gas gauge
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K105	Reserve fuel warning lamp
K192	Natural gas mode warning lamp
T2	2-pin connector
T3ai	3-pin connector
T32c	32-pin connector
(295)	Earth connection 10, in interior wiring harness
*	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Dash panel insert, oil pressure switch, oil level and oil temperature sender, buzzer and gong

F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
K	Dash panel insert
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T3bu	3-pin connector
T6e	6-pin connector, black, coupling point for electric steering in engine compartment
T14a	14-pin connector, coupling point 1 on left in engine compartment
T32c	32-pin connector

ws	=	white
sw	=	black
ro	=	red
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Universal preparation for mobile telephone (UTP) - Premium

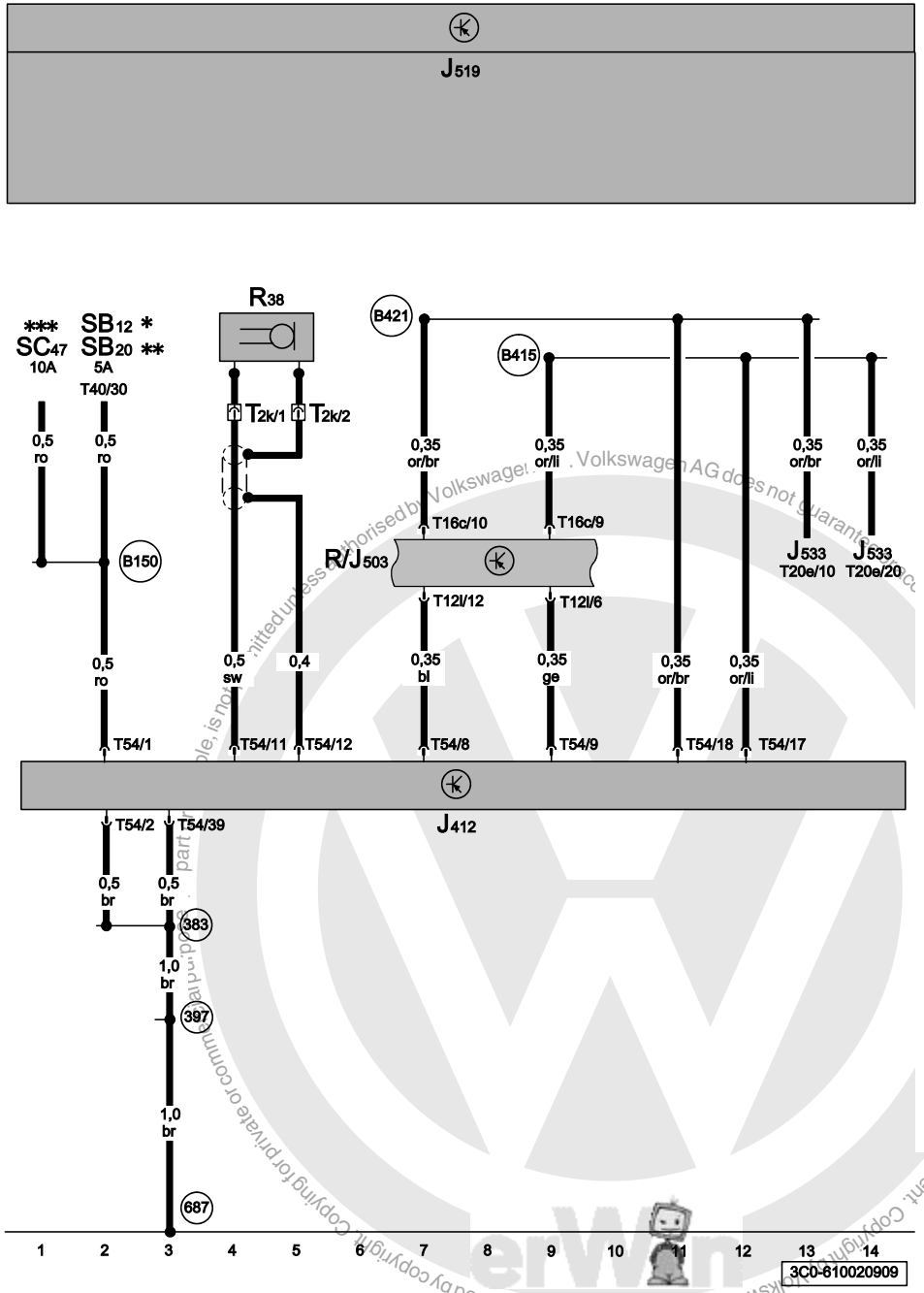
⇒ **Bluetooth**
⇒ **American markets**
From November 2008

Notes:
For information concerning
- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

⇒ Overview of Fitting Locations!
For information concerning
- Fault Finding Programs

⇒ Guided Fault Finding

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Telephone controls control unit, emergency assistance call button, telephone microphone

E276	Emergency assistance call button
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J738	Telephone controls control unit
R	Radio
R38	Telephone microphone
SB12	Fuse 12 on fuse holder B
SB20	Fuse 20 on fuse holder B
SC47	Fuse 47 on fuse holder C
T2k	2-pin connector
T6ad	6-pin connector
T12i	12-pin connector, black
T12l	12-pin connector, black
T20e	20-pin connector
T40	40-pin connector, under E-box, in engine compartment
T54	54-pin connector
383	Earth connection 18, in main wiring harness
397	Earth connection 32, in main wiring harness
687	Earth point 1, on centre tunnel
B150	Positive connection 2 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness

* Only models with E-box low
** Only models with E-box high
*** Only models with start/stop system

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Universal preparation for mobile telephone (UTP) - Low

⇒ **Bluetooth**

⇒ **American markets**

From November 2008

Notes:

For information concerning

- Relay and fuse assignment
- Multi-pin connectors
- Control units and relays
- Earth connections

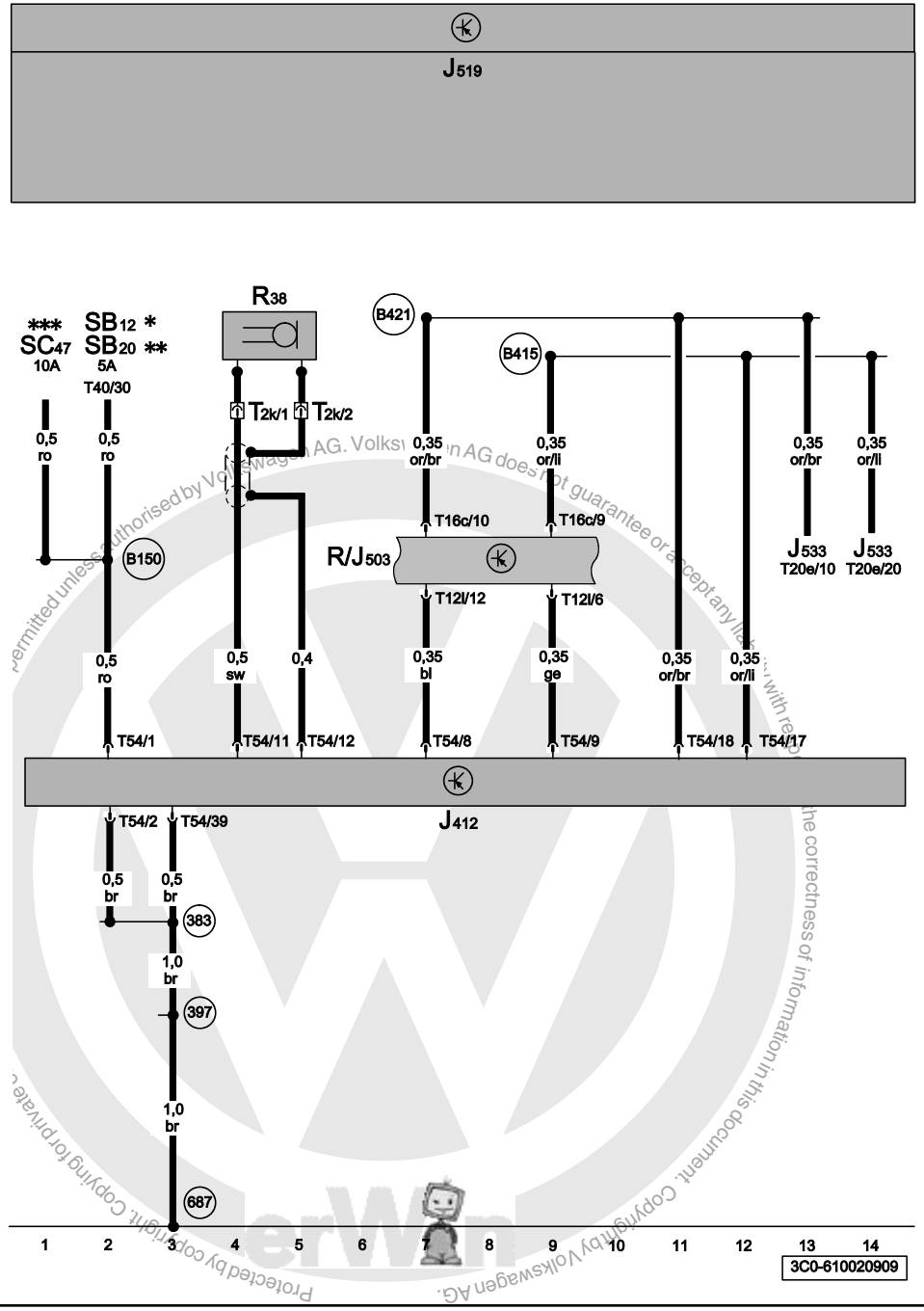
⇒ Overview of Fitting Locations!

For information concerning

- Fault Finding Programs

⇒ Guided Fault Finding

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Control unit for mobile telephone operating electronics, telephone microphone, control unit with display for radio and navigation system

J412	Control unit for mobile telephone operating electronics
J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
J533	Data bus diagnosis interface
R	Radio
R38	Telephone microphone
SB12	Fuse 12 on fuse holder B
SB20	Fuse 20 on fuse holder B
SC47	Fuse 47 on fuse holder C
T2k	2-pin connector, black
T12l	12-pin connector
T16c	16-pin connector
T20e	20-pin connector
T40	40-pin connector
T54	54-pin connector
383	Earth connection 18, in main wiring harness
397	Earth connection 32, in main wiring harness
687	Earth point 1, on centre tunnel
B150	Positive connection 2 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Only models with E-box low
**	Only models with E-box high
***	Only models with start/stop system

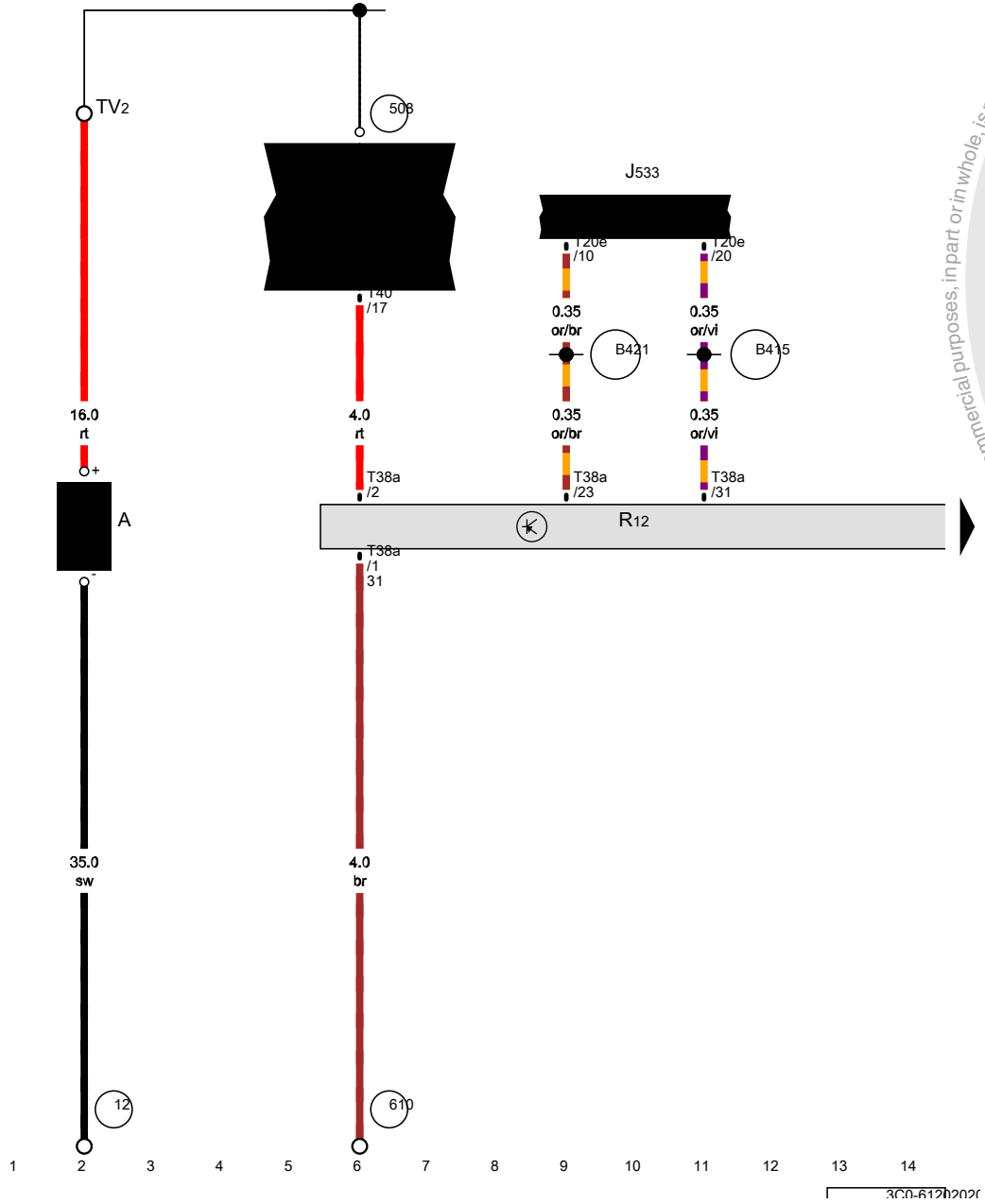
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Sound system Volkswagen Sound

From November 2008

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Battery, data bus diagnostic interface, amplifier, fuse 18 in fuse holder B, fuse 19 in fuse holder B, terminal 30 wiring junction

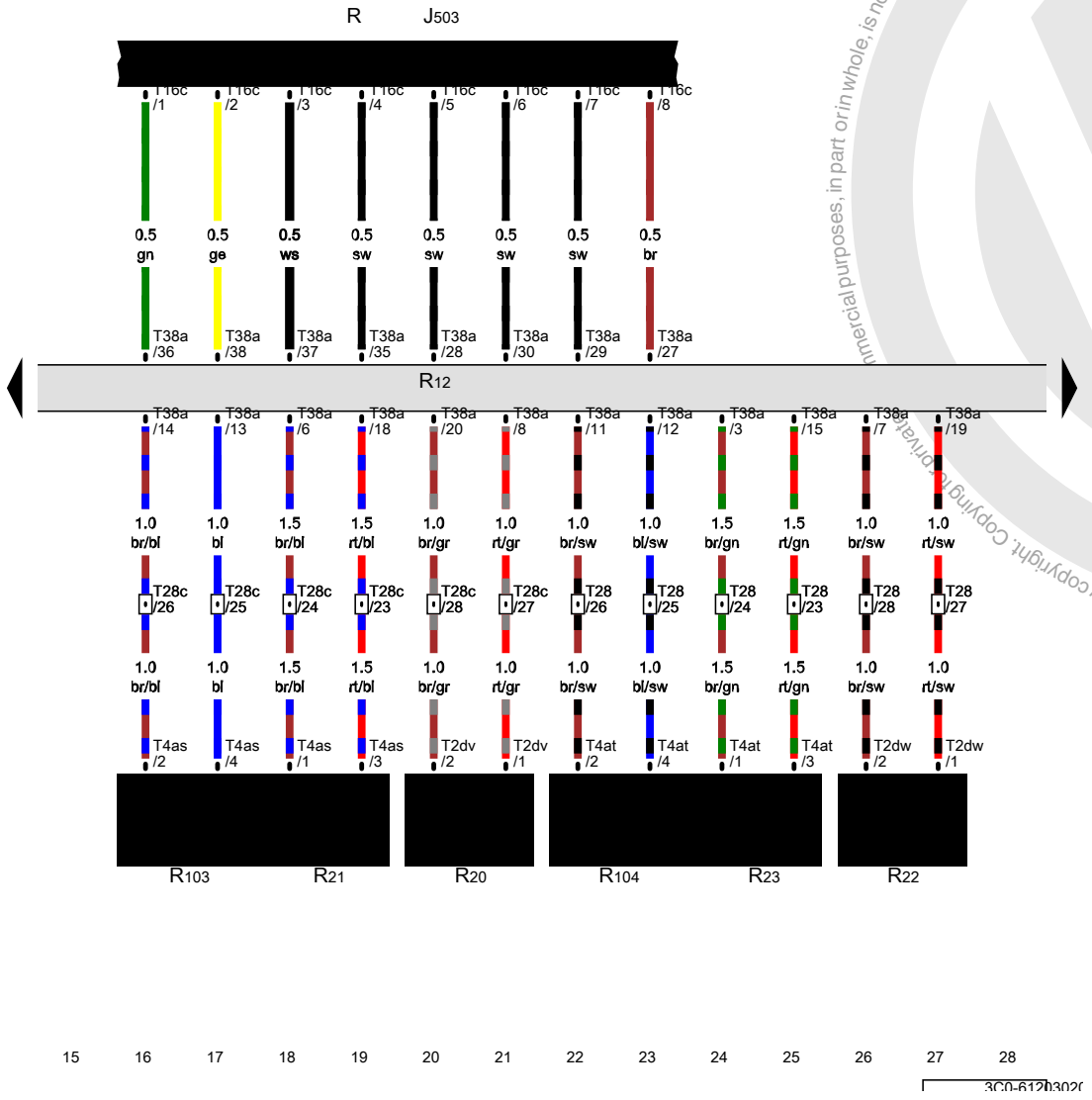
A	Battery
J533	Data bus diagnosis interface
R12	Amplifier
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T20e	20-pin connector
T38a	38-pin connector
TV2	Terminal 30 wiring junction
T40	40-pin connector
12	Earth point, on left in engine compartment
508	Screw connection (30) on E-box
610	Earth point (audio), front below centre console
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	Fuses in E-box, Low
*2	Fuses in E-box, High

ws	=	white
sw	=	black
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Control unit with display for radio and navigation, radio, amplifier, front left treble loudspeaker, front left bass loudspeaker, front right treble loudspeaker, front right bass loudspeaker, front right mid-range loudspeaker

J503	Control unit with display for radio and navigation
R	Radio
R12	Amplifier
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R103	Front left mid-range loudspeaker
R104	Front right mid-range loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T16c	16-pin connector
T28	28-pin connector, on lower part of right of A-pillar
T28c	28-pin connector, on lower part of left of A-pillar
T38a	38-pin connector



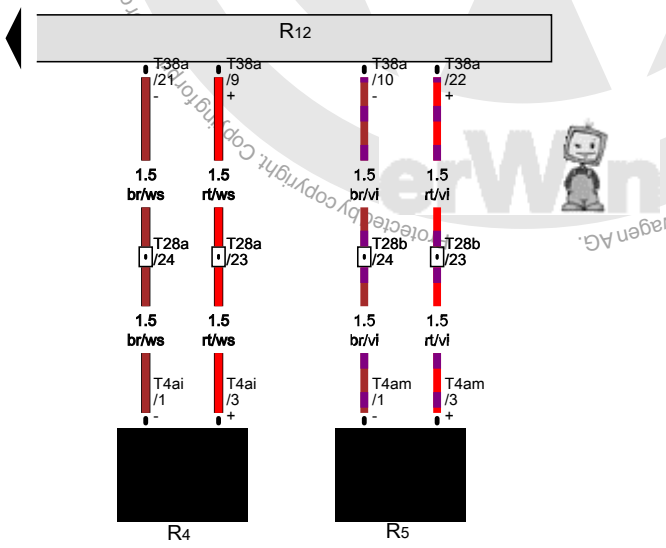
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Rear left loudspeaker, rear right loudspeaker, amplifier

R4	Rear left loudspeaker
R5	Rear right loudspeaker
R12	Amplifier
T4ai	4-pin connector
T4am	4-pin connector
T28a	28-pin connector, on left of B-pillar
T28b	28-pin connector, on right of B-pillar
T38a	38-pin connector



ws	=	white
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li	=	purple
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or	=	orange
rs	=	pink

29 30 31 32 33 34 35 36 37 38 39 40 41 42

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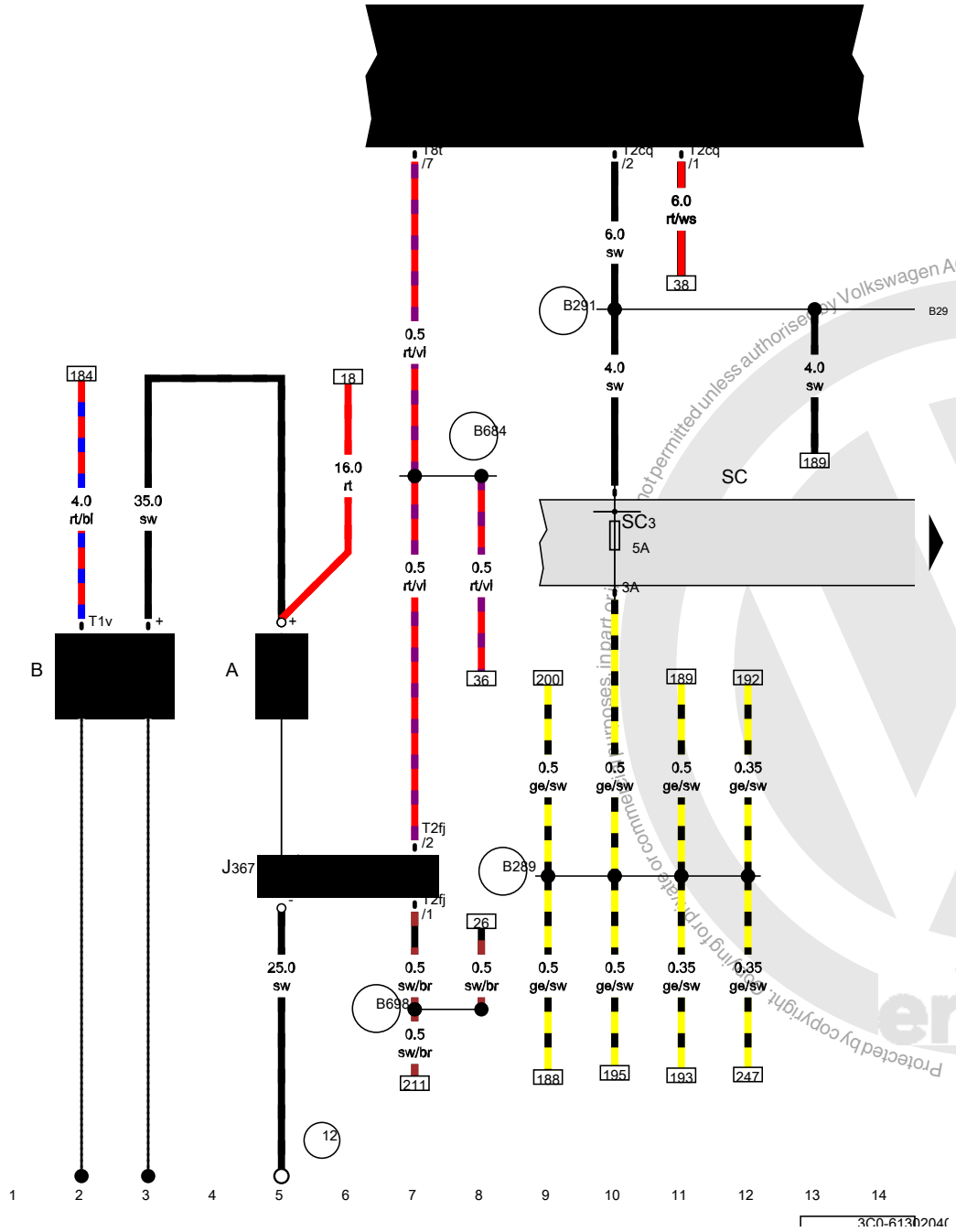
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1.4l petrol engine with start/stop system, CAXA

from May 2009

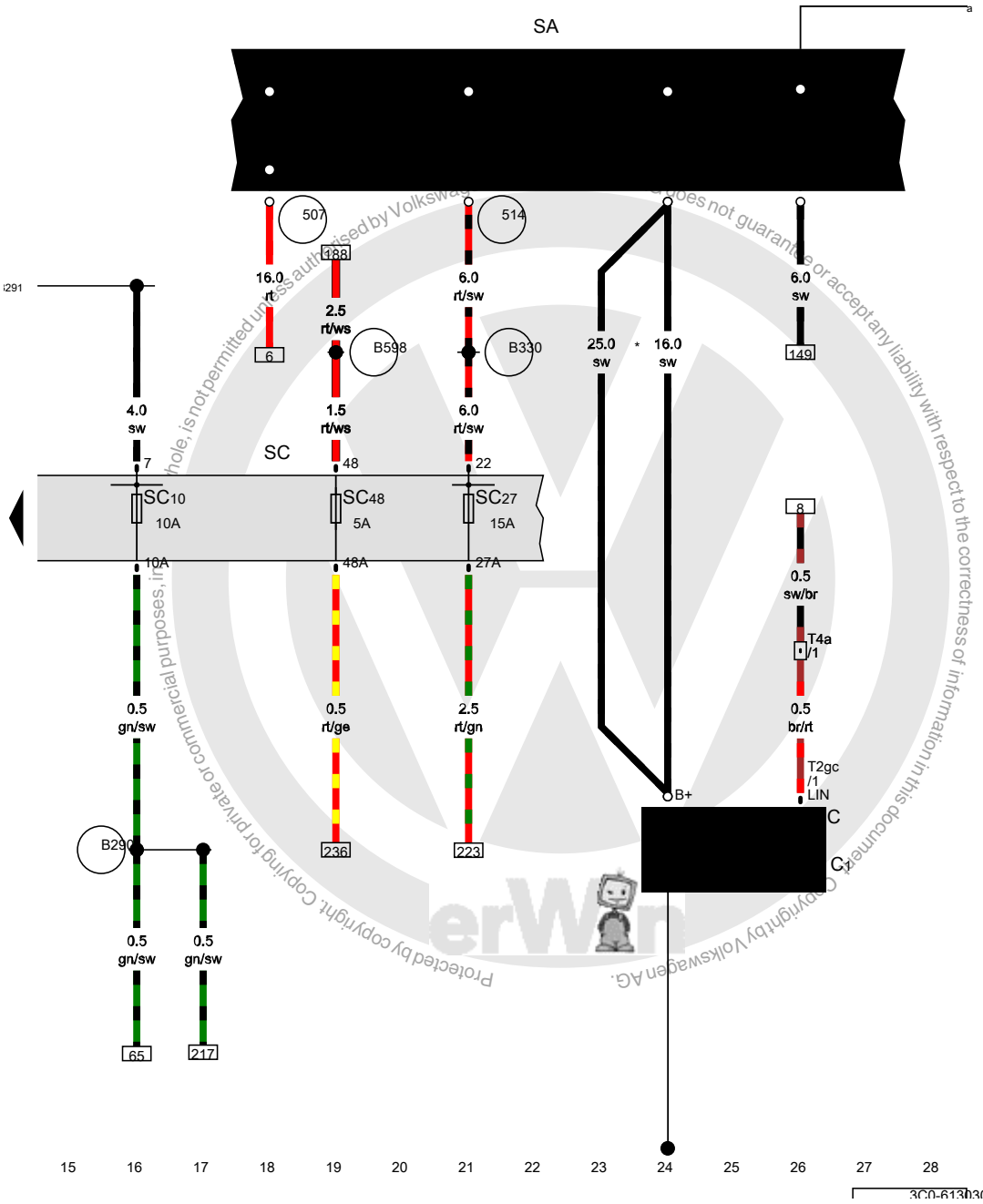
Battery, starter, terminal 15 voltage supply relay, battery monitor control unit, onboard supply control unit, fuse holder C

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J367	Battery monitor control unit
J519	Onboard supply control unit
SC	Fuse holder C
SC3	Fuse 3 on fuse holder C
T1b	Single connector
T1v	Single connector
T2cq	2-pin connector
T2fj	2-pin connector
T8t	8-pin connector
12	Earth point, on left in engine compartment
B289	Connection 13 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B684	Connection 24 (30a), in main wiring harness
B698	Connection 3 (LIN bus), in main wiring harness



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
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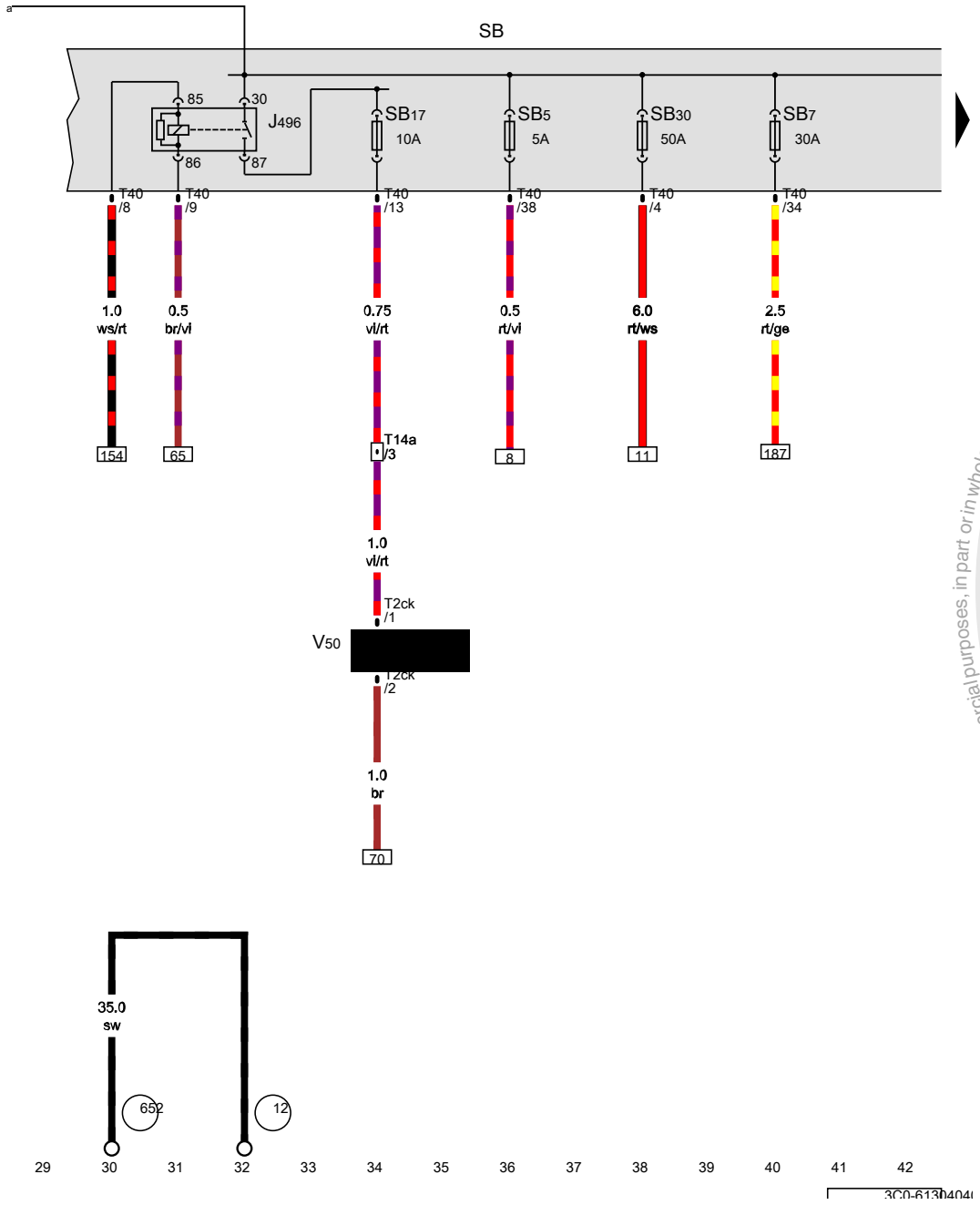


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Alternator, fuse holder A, fuse holder C

C	Alternator
C1	Voltage regulator
SA	Fuse holder A
SA1	Fuse 1 on fuse holder A
SA3	Fuse 3 on fuse holder A
SA4	Fuse 4 on fuse holder A
SC	Fuse holder C
SC10	Fuse 10 on fuse holder C
SC27	Fuse 27 on fuse holder C
SC48	Fuse 48 on fuse holder C
T2gc	2-pin connector
T4a	4-pin connector, near starter
507	Threaded connection (30), on battery fuse holder
514	Threaded connection 4 (30a) on relay plate
B290	Connection 14 (15a), in main wiring harness
B291	Connection 15 (15a), in main wiring harness
B330	Connection 16 (30a), in main wiring harness
B598	Positive connection 11 (30a), in interior wiring harness
*	Only models with 140A alternator

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Additional coolant pump relay, fuse holder B, coolant circulation pump, engine/gearbox earth point

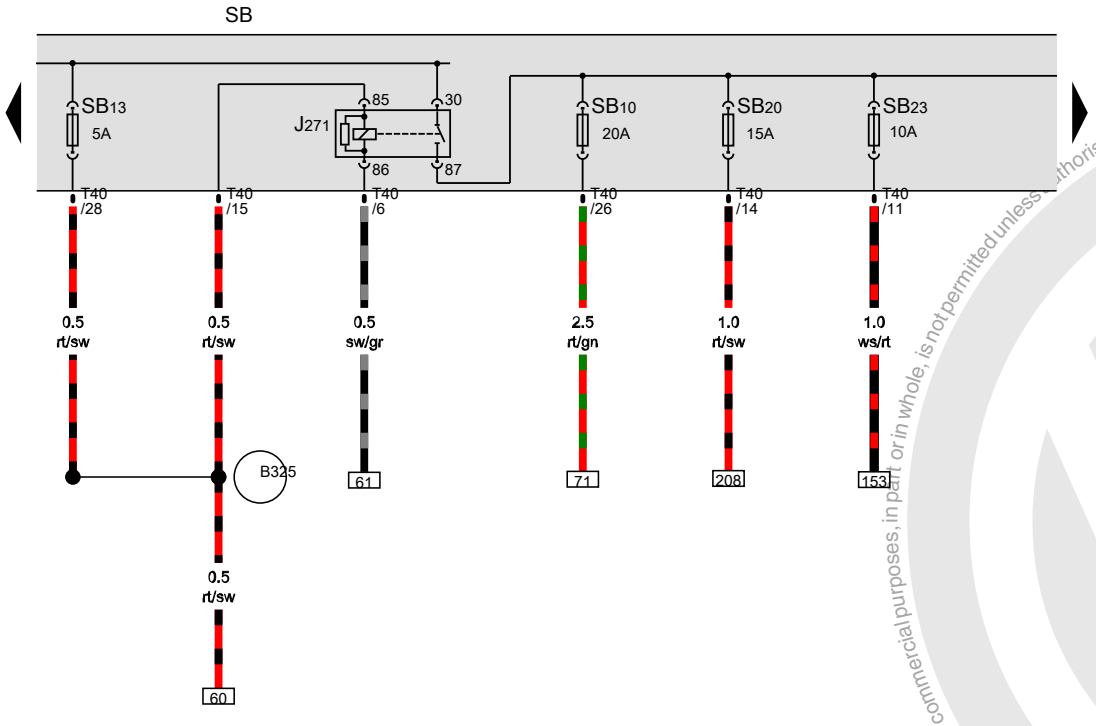
J496	Additional coolant pump relay
SB	Fuse holder B
SB5	Fuse 5 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB30	Fuse 30 on fuse holder B
T2ck	2-pin connector
T14a	14-pin connector
T40	40-pin connector
V50	Coolant circulation pump
12	Earth point, on left in engine compartment
652	Earth point, engine and gearbox earth

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Main relay, fuse holder B

J271	Main relay
SB	Fuse holder B
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
T40	40-pin connector
B325	Connection 11 (30a), in main wiring harness

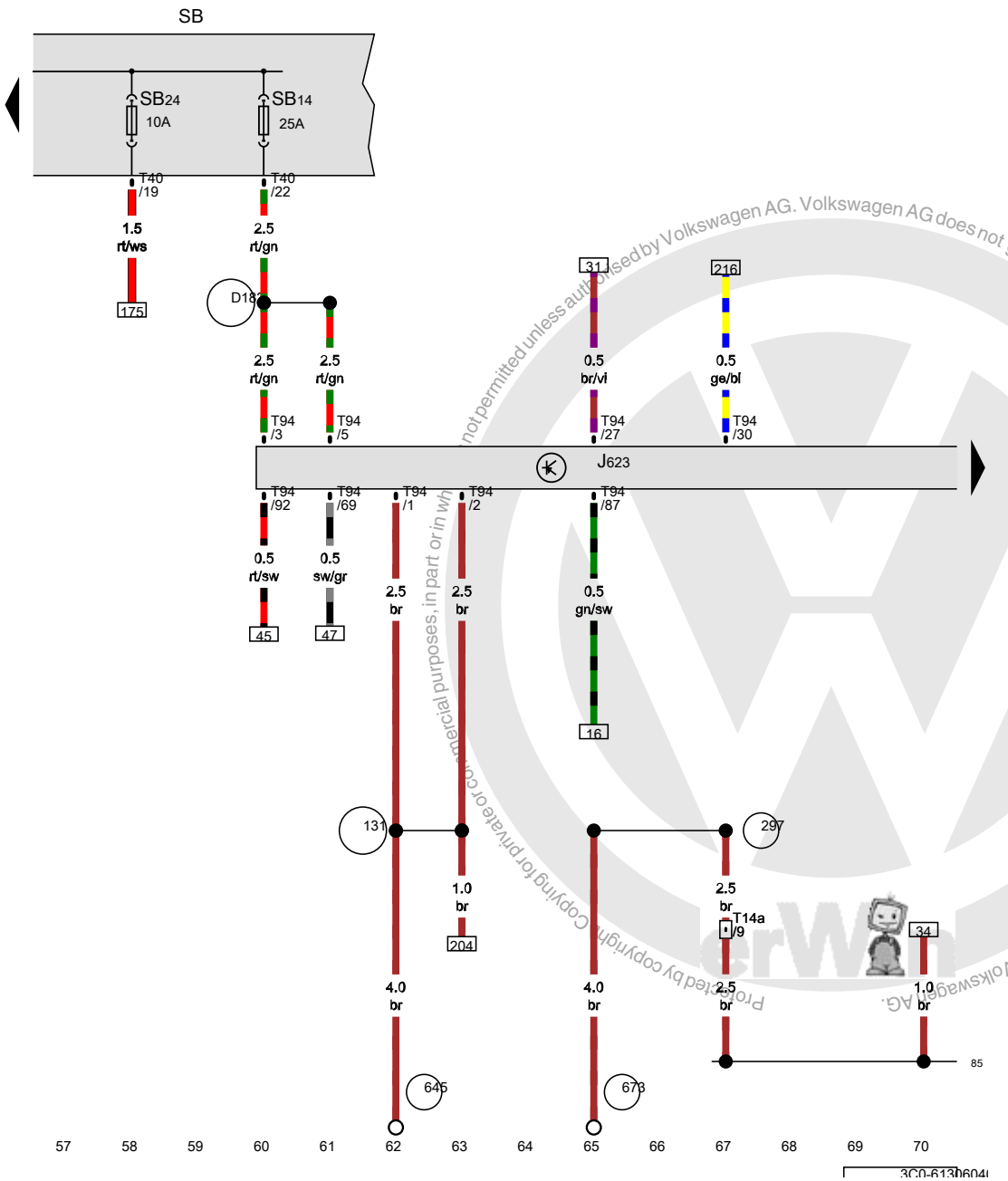


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43 44 45 46 47 48 49 50 51 52 53 54 55 56

3C0-613050



Engine control unit, fuse holder B

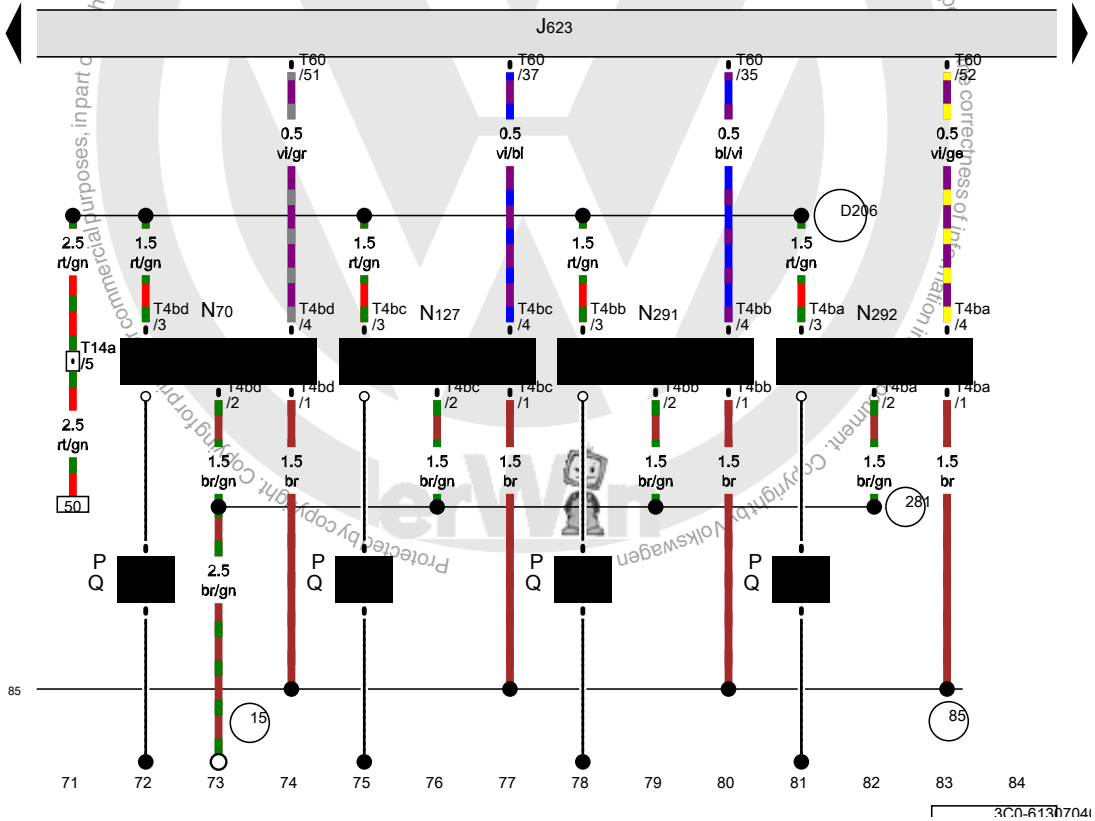
J623	Engine control unit, in centre of plenum chamber
SB	Fuse holder B
SB14	Fuse 14 on fuse holder B
SB24	Fuse 24 on fuse holder B
T14a	14-pin connector
T40	40-pin connector
T94	94-pin connector
85	Earth connection 1, in engine compartment wiring harness
131	Earth connection 2, in engine compartment wiring harness
297	Earth connection 12, in interior wiring harness
645	Earth point 1, on bulkhead
673	Earth point 3, on front of left longitudinal member
D182	Connection 3 (87a), in engine compartment wiring harness

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Engine control unit, ignition coil 1 with output stage, ignition coil 2 with output stage, ignition coil 3 with output stage, ignition coil 4 with output stage, spark plug connectors, spark plugs

J623	Engine control unit, in centre of plenum chamber
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plug
T4ba	4-pin connector
T4bb	4-pin connector
T4bc	4-pin connector
T4bd	4-pin connector
T14a	14-pin connector
T60	60-pin connector
15	Earth point, on cylinder head
85	Earth connection 1, in engine compartment wiring harness
281	Earth point 1, engine prewiring harness
D206	Connection 4 (87a) in engine prewiring harness

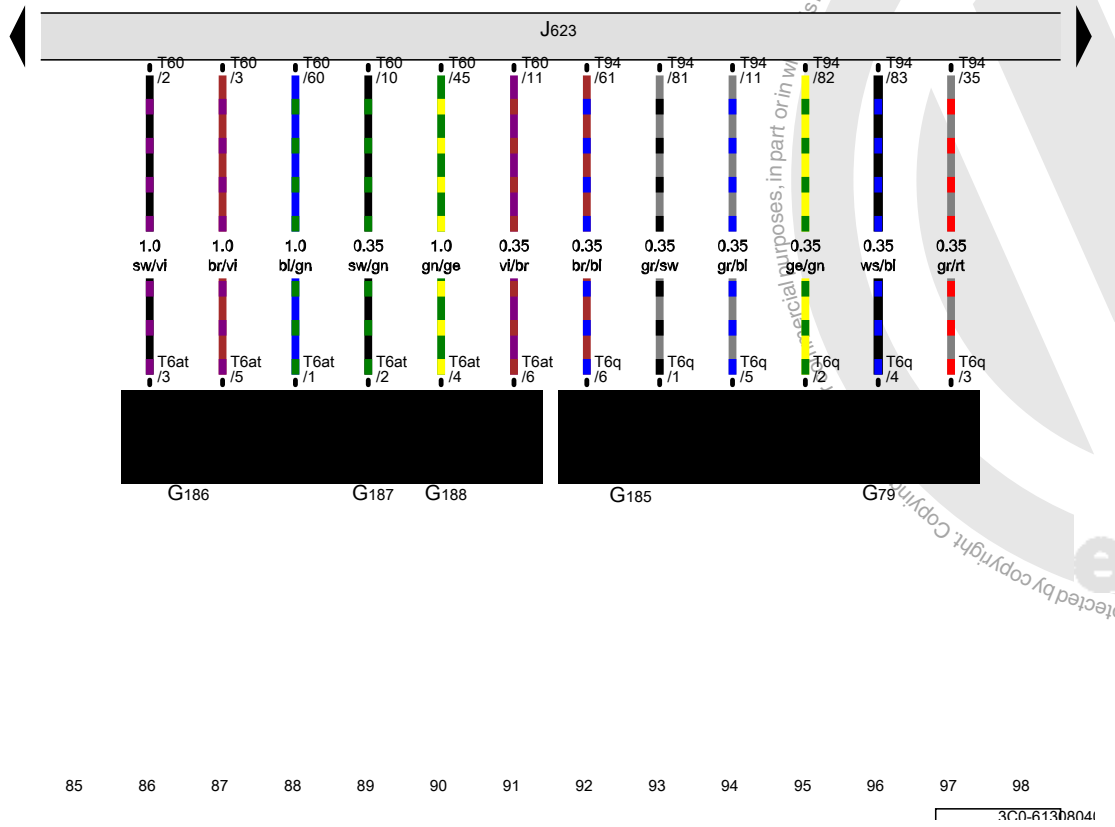


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Accelerator position sender, accelerator position sender 2, throttle valve drive for electric throttle (EPC), throttle valve drive angle sender 1 for electric throttle (EPC), throttle valve drive angle sender 2 for electric throttle (EPC), engine control unit

G79	Accelerator position sender
G185	Accelerator position sender 2
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J623	Engine control unit, in centre of plenum chamber
T6at	6-pin connector
T6q	6-pin connector
T60	60-pin connector
T94	94-pin connector

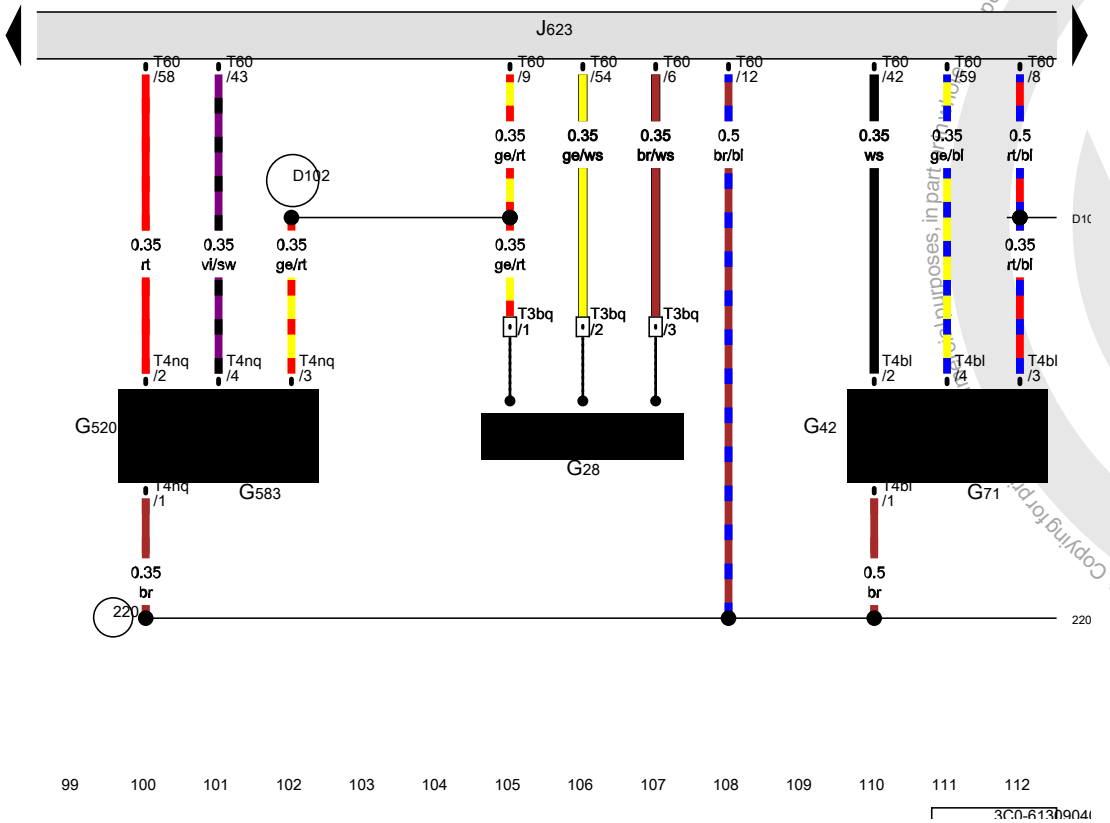


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Engine speed sender, intake air temperature sender, intake manifold pressure sender, intake air temperature sender 3, intake manifold pressure sender 3, engine control unit

G28	Engine speed sender
G42	Intake air temperature sender
G71	Intake manifold pressure sender
G520	Intake air temperature sender 3
G583	Intake manifold pressure sender 3
J623	Engine control unit, in centre of plenum chamber
T3bq	3-pin connector
T4bl	4-pin connector
T4nq	4-pin connector
T60	60-pin connector
220	Earth connection (sender earth), in engine wiring harness
D101	Connection 1, in engine compartment wiring harness
D102	Connection 2, in engine compartment wiring harness

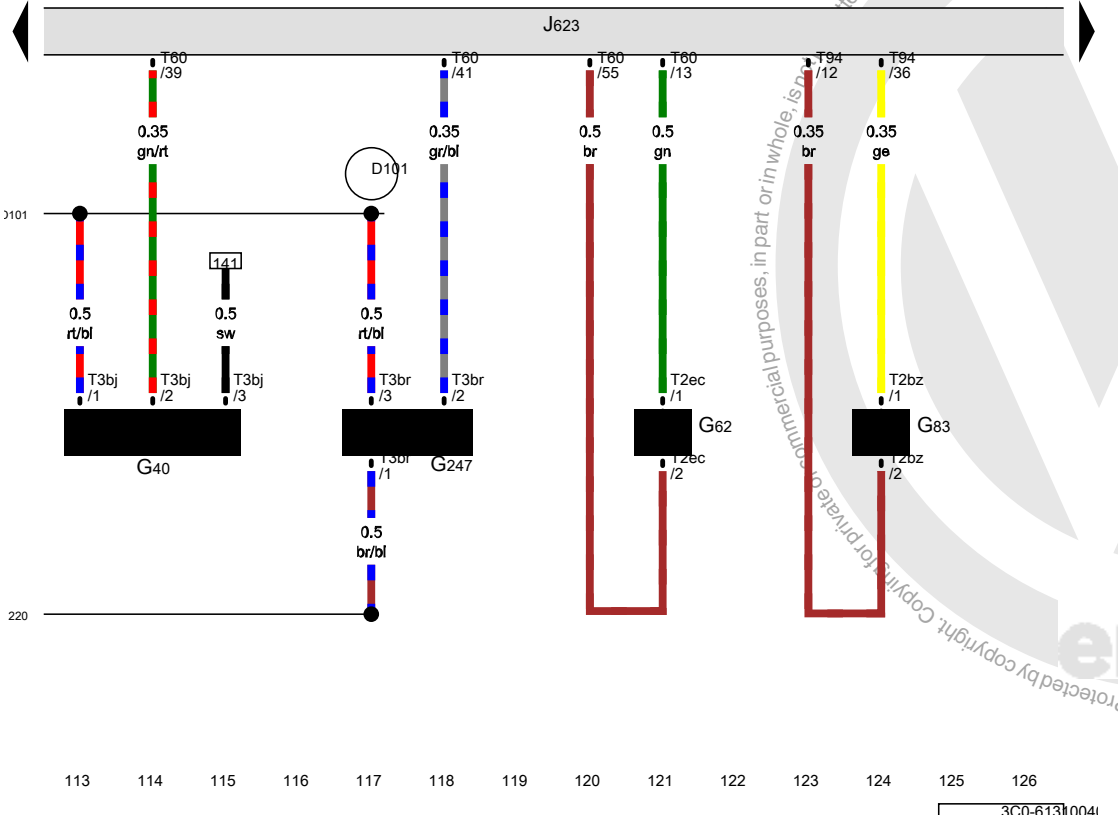


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Hall sender, coolant temperature sender, radiator outlet coolant temperature sender, fuel pressure sender, engine control unit

G40	Hall sender
G62	Coolant temperature sender
G83	Radiator outlet coolant temperature sender, black
G247	Fuel pressure sender
J623	Engine control unit, in centre of plenum chamber
T2bz	2-pin connector
T2ec	2-pin connector
T3bj	3-pin connector
T3br	3-pin connector
T60	60-pin connector
T94	94-pin connector
220	Earth connection (sender earth), in engine wiring harness
D101	Connection 1, in engine compartment wiring harness

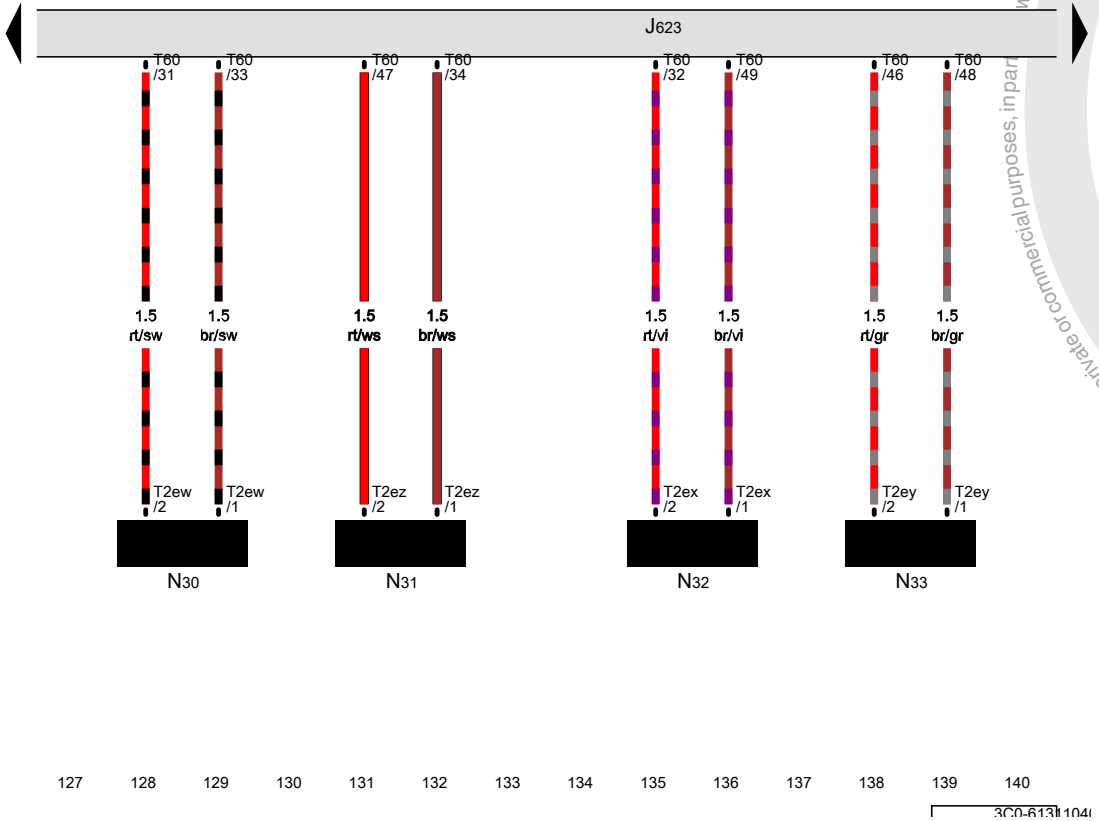


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Engine control unit, injector, cylinder 1, injector, cylinder 2, injector, cylinder 3, injector, cylinder 4

J623	Engine control unit, in centre of plenum chamber
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T2ew	2-pin connector
T2ex	2-pin connector
T2ey	2-pin connector
T2ez	2-pin connector
T60	60-pin connector

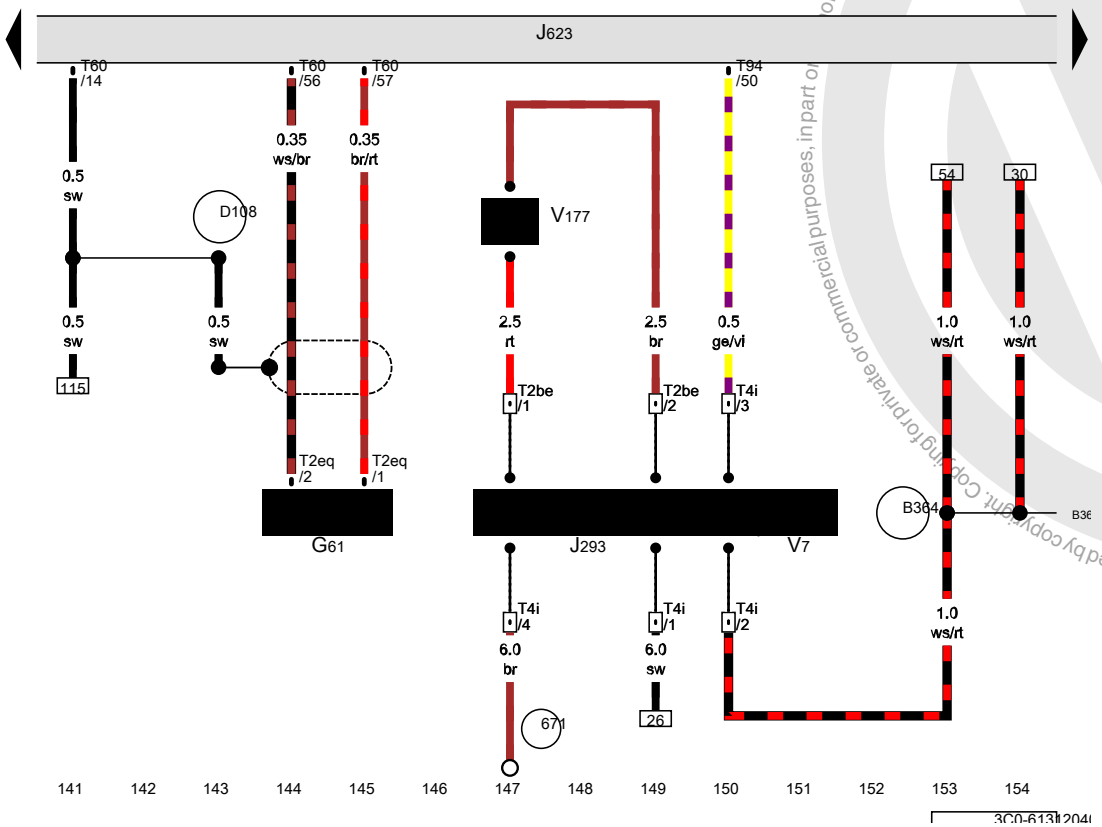


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Knock sensor 1, radiator fan control unit, engine control unit, radiator fan, radiator fan 2

G61	Knock sensor 1
J293	Radiator fan control unit
J623	Engine control unit, in centre of plenum chamber
T2be	2-pin connector, on lock carrier
T2eq	2-pin connector
T4i	4-pin connector, on lock carrier
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member
B364	Connection 15 (87a), in main wiring harness
D108	Connection 6, in engine compartment wiring harness

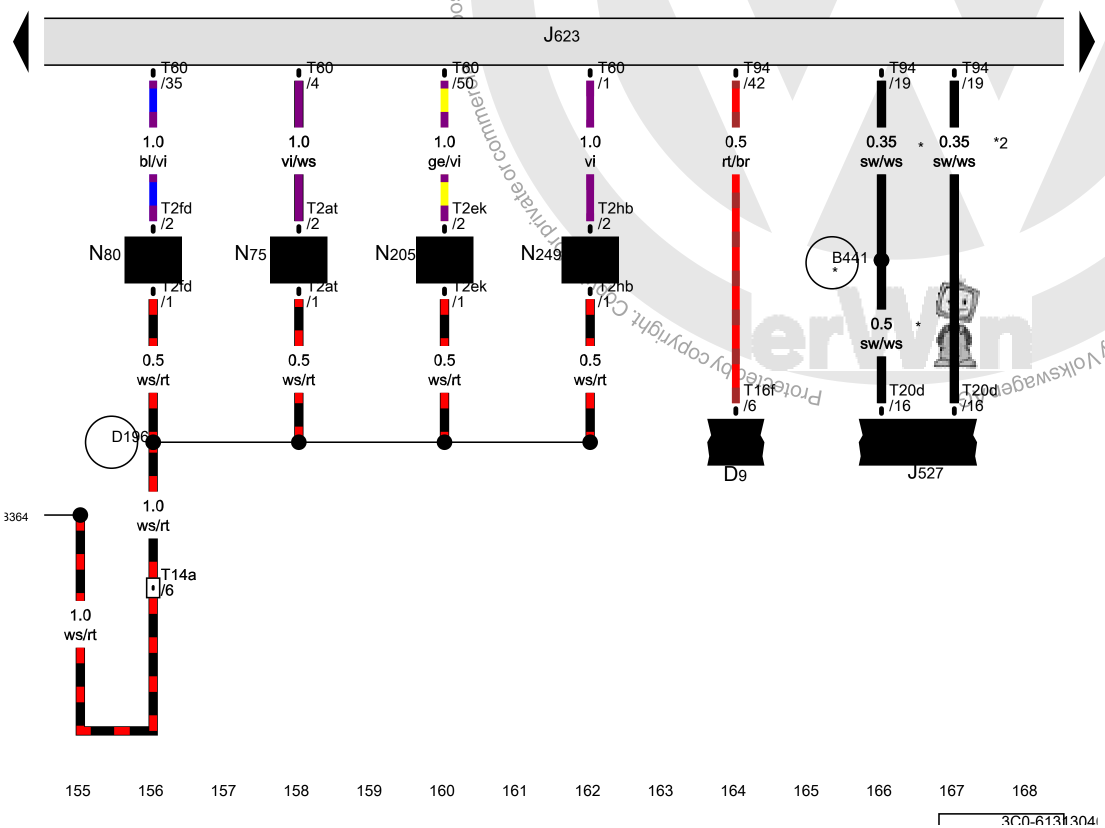


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Electronic ignition lock, steering column electronics control unit, engine control unit, charge pressure control solenoid valve, activated charcoal filter system solenoid valve 1, camshaft control valve 1, turbocharger air recirculation valve

D9	Electronic ignition lock
J527	Steering column electronics control unit
J623	Engine control unit, in centre of plenum chamber
N75	Charge pressure control solenoid valve
N80	Activated charcoal filter solenoid valve 1
N205	Camshaft control valve 1
N249	Turbocharger air recirculation valve
T2at	2-pin connector
T2ek	2-pin connector
T2fd	2-pin connector
T2hb	2-pin connector
T14a	14-pin connector
T16f	16-pin connector
T20d	20-pin connector
T60	60-pin connector
T94	94-pin connector
B364	Connection 15 (87a), in main wiring harness
B441	Connection (CCS), in main wiring harness
D196	Connection 2 (87a) in engine prewiring harness
*	Only models with adaptive cruise control (ACC)
*2	Speed signal

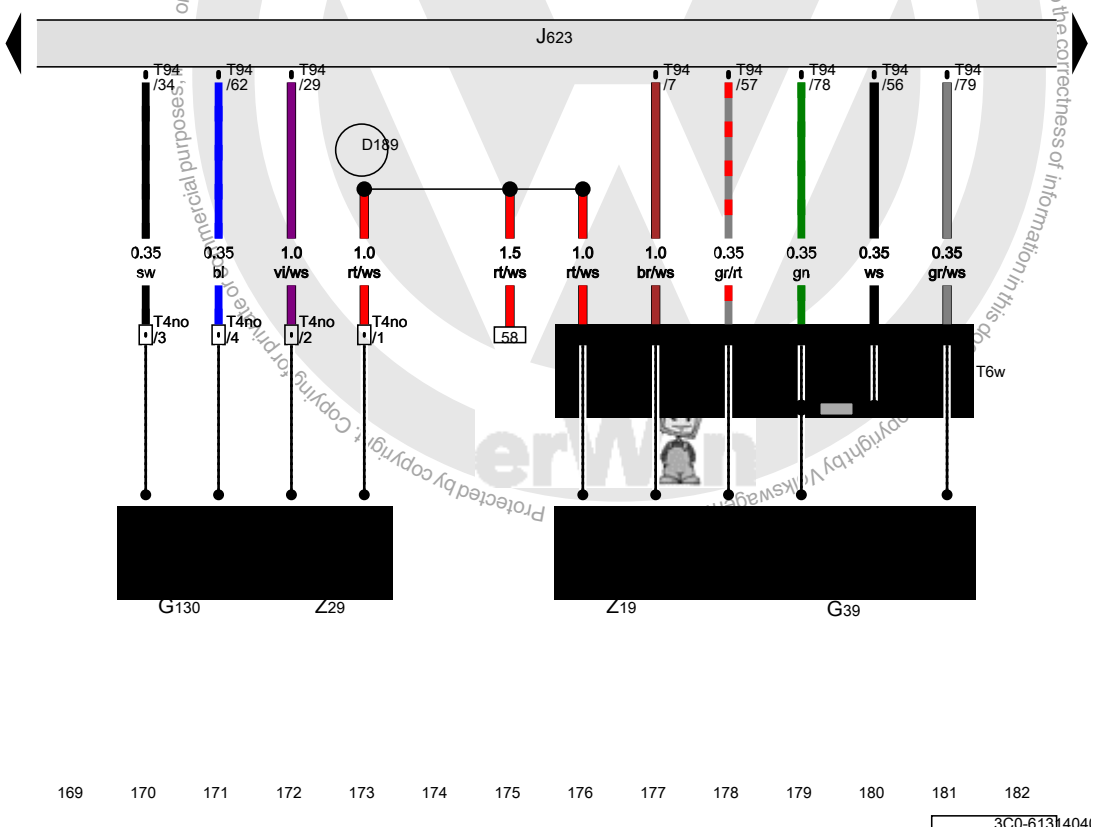


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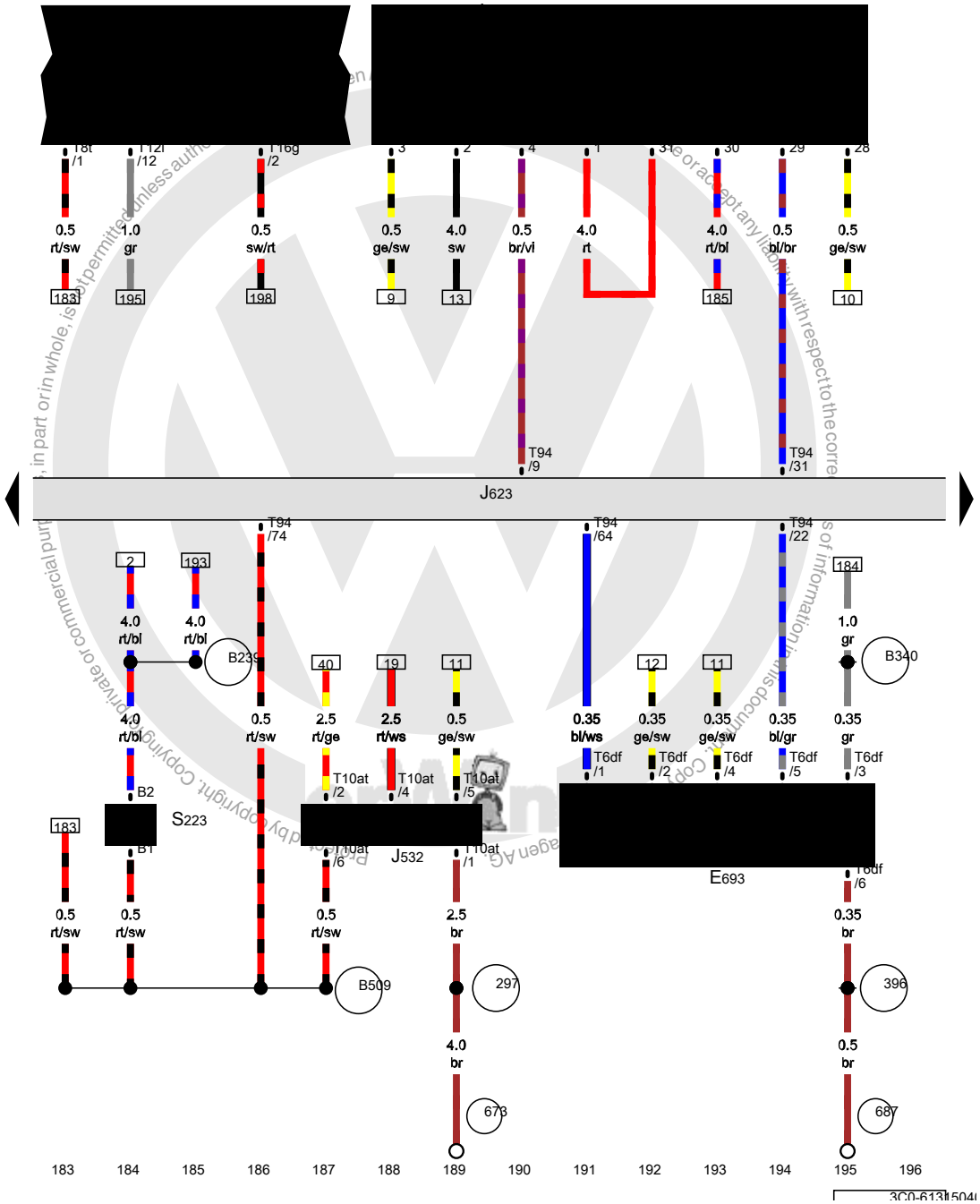
Lambda probe, Lambda probe heater after catalytic converter, engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J623	Engine control unit, in centre of plenum chamber
T4no	4-pin connector
T6w	6-pin connector
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
(D189)	Connection (87a) in engine prewiring harness



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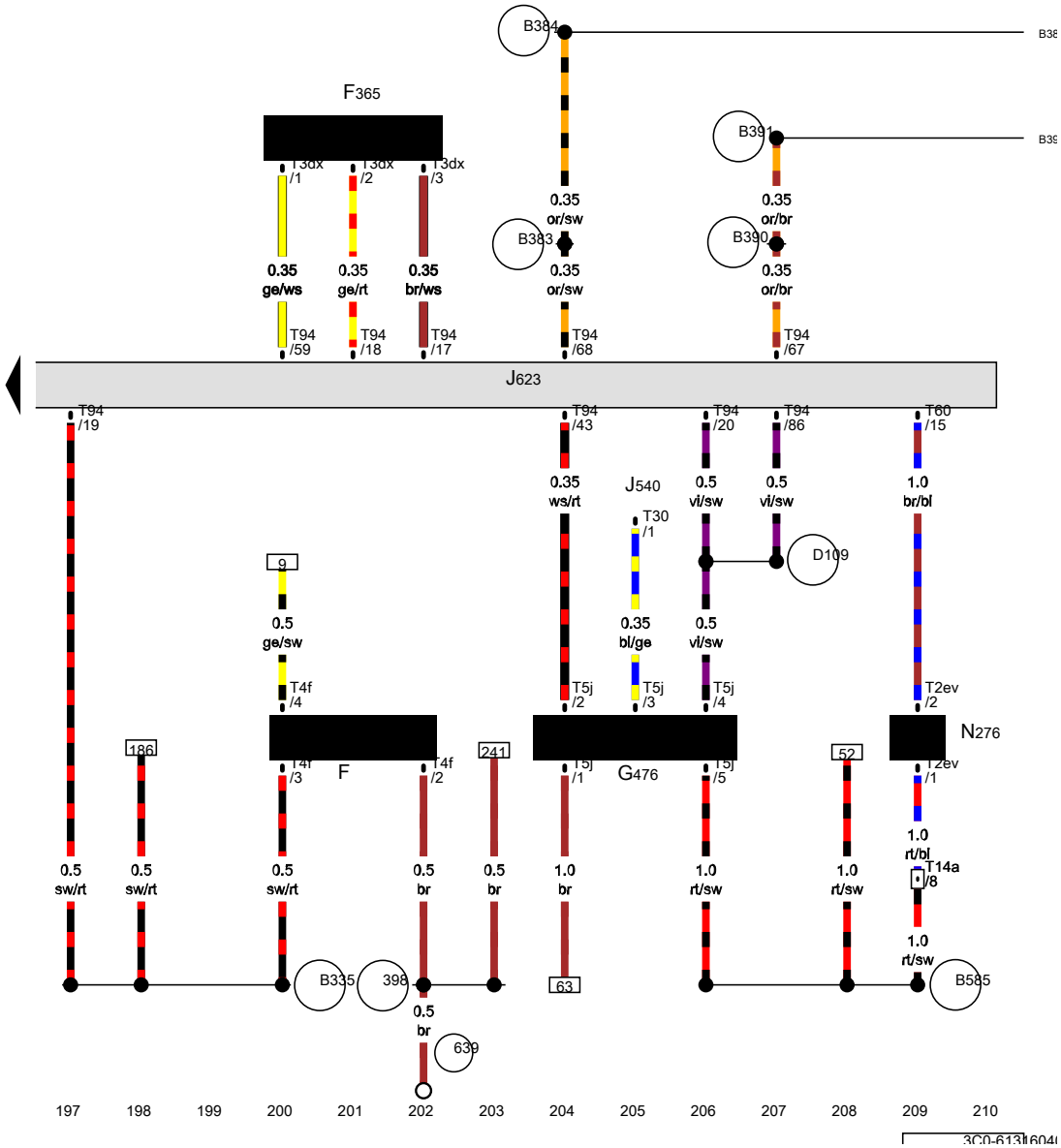
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Start/stop mode button, onboard supply control unit, voltage stabiliser, engine control unit, starter relay 1, starter relay 2, fuses in fuse holder

E693	Start/stop mode button
J519	Onboard supply control unit
J532	Voltage stabiliser
J623	Engine control unit, in centre of plenum chamber
J906	Starter relay 1
J907	Starter relay 2
S223	Fuse in fuse holder
T6df	6-pin connector
T8t	8-pin connector
T10at	10-pin connector
T12i	12-pin connector
T16g	16-pin connector
T94	94-pin connector
297	Earth connection 12, in interior wiring harness
396	Earth connection 31, in main wiring harness
673	Earth point 3, on front of left longitudinal member
687	Earth point 1, on centre tunnel
B239	Positive connection 1 (50), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B509	Connection 3 (diagnosis), in main wiring harness

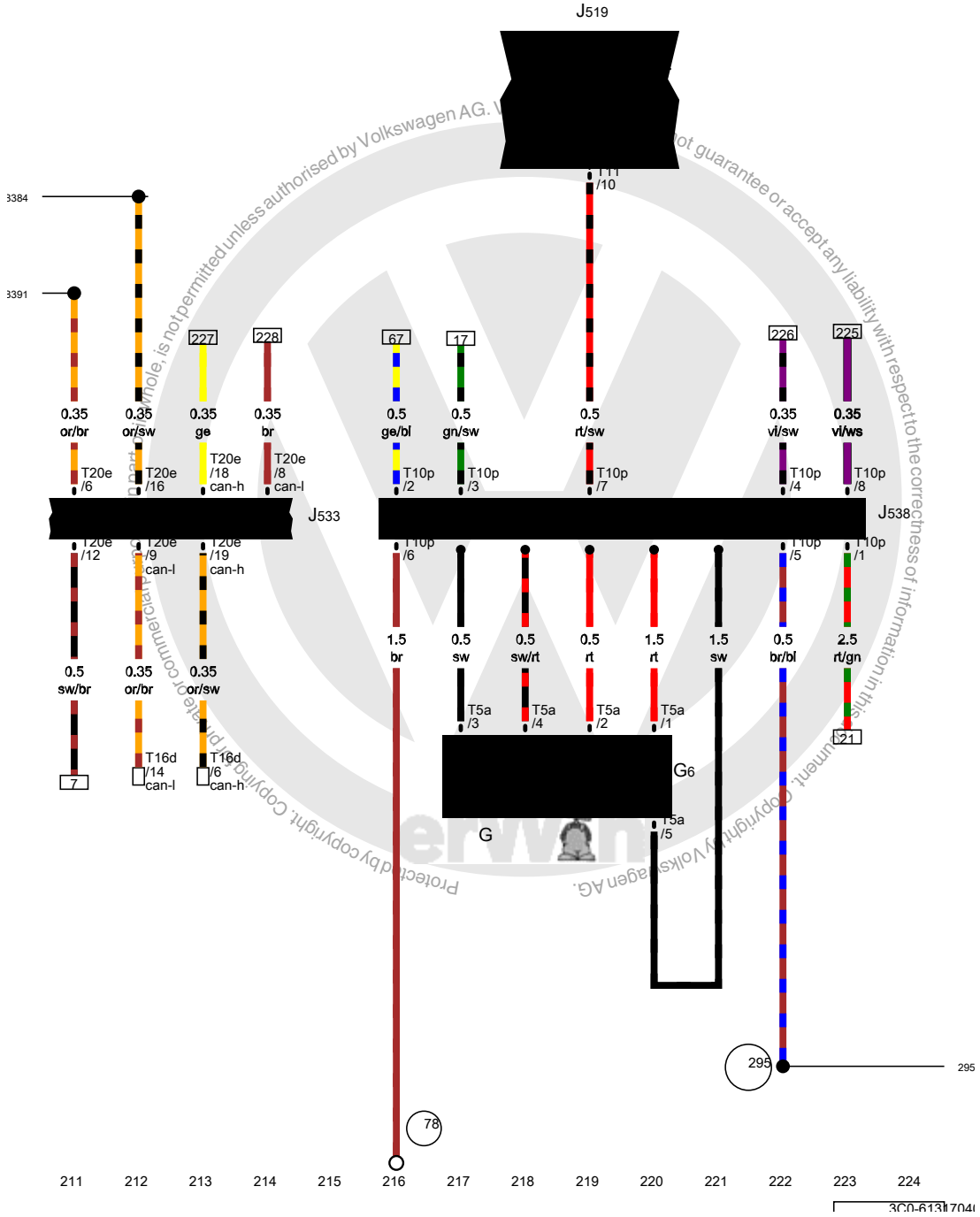
Brake light switch, gearbox neutral position switch, clutch position sender, engine control unit, fuel pressure regulating valve



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F	Brake light switch
F365	Gearbox neutral position switch
G476	Clutch position sender
J540	Control unit for electromechanical parking brake
J623	Engine control unit, in centre of plenum chamber
N276	Fuel pressure regulating valve
T2ev	2-pin connector
T3dx	3-pin connector
T4f	4-pin connector
T5j	5-pin connector
T14a	14-pin connector, on left in engine compartment
T30	30-pin connector
T60	60-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B585	Positive connection 2 (87a), in interior wiring harness
D109	Connection 7, in engine compartment wiring harness

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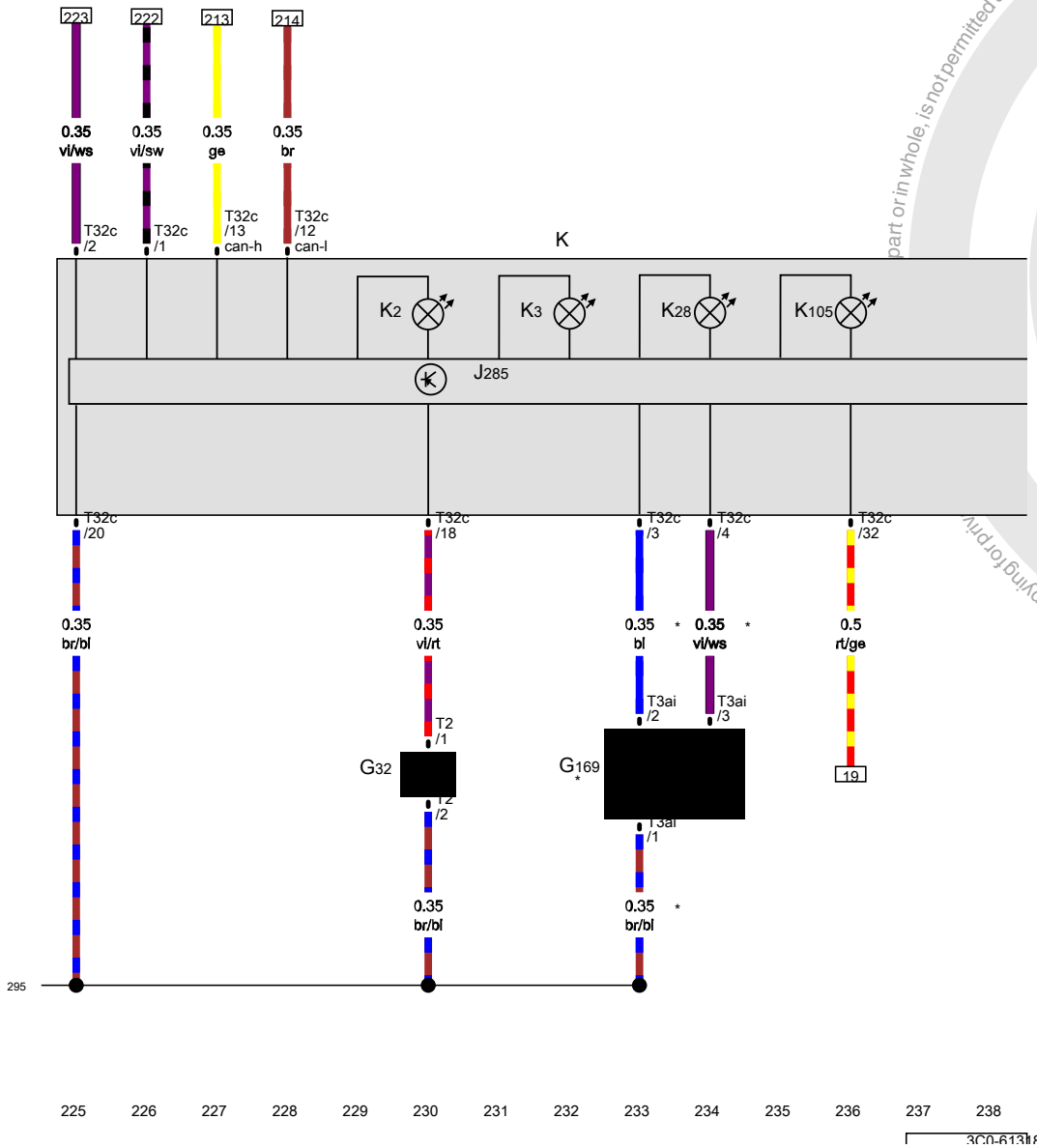
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Fuel gauge sender, fuel system pressurisation pump, onboard supply control unit, data bus diagnosis interface, fuel pump control unit

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J533	Data bus diagnosis interface
J538	Fuel pump control unit
T5a	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T16d	16-pin connector, on diagnostic connector
T20e	20-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

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Coolant shortage indicator sender, fuel gauge sender 2, control unit in dash panel insert, dash panel insert, alternator warning lamp, oil pressure warning lamp, coolant temperature and coolant shortage warning lamp, reserve fuel warning lamp

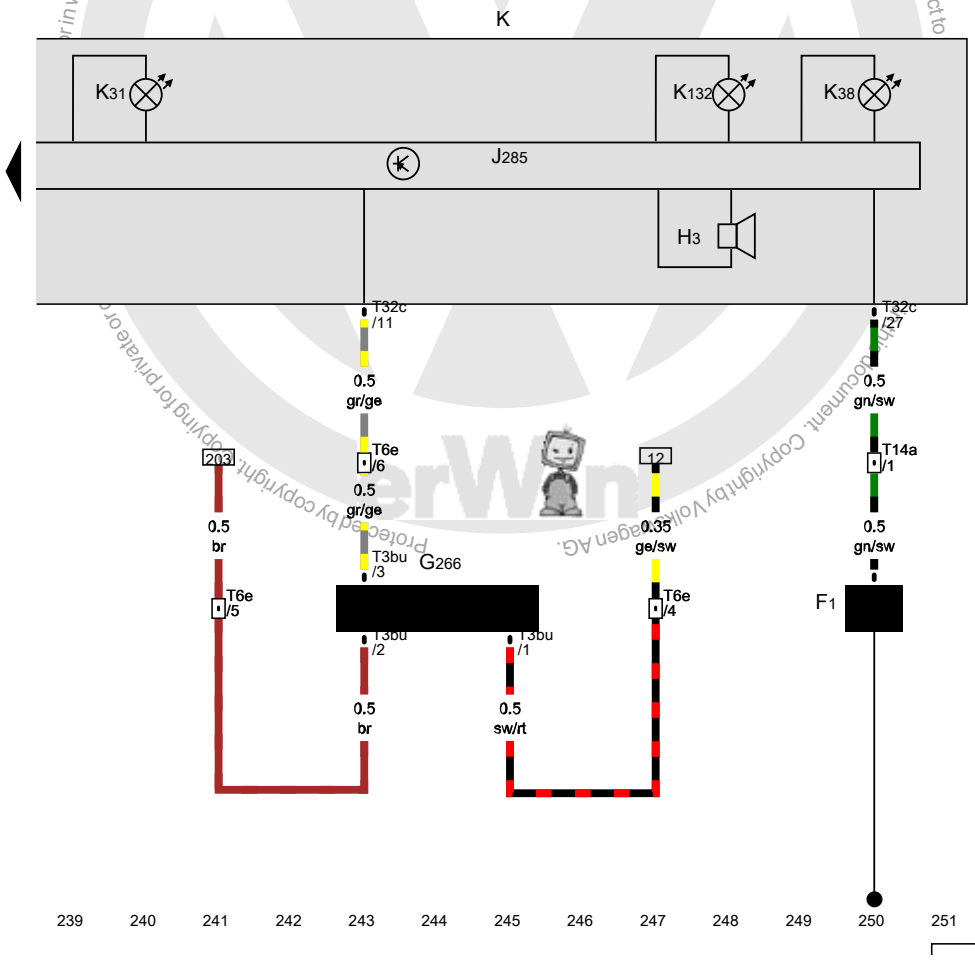


G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K105	Reserve fuel warning lamp
T2	2-pin connector
T3ai	3-pin connector
T32c	32-pin connector
295	Earth connection 10, in interior wiring harness
*	Only models with all-wheel drive

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Oil pressure switch, oil level and oil temperature sender, buzzer and gong, control unit in dash panel insert, dash panel insert, CCS warning lamp, oil level warning lamp, electronic power control fault lamp

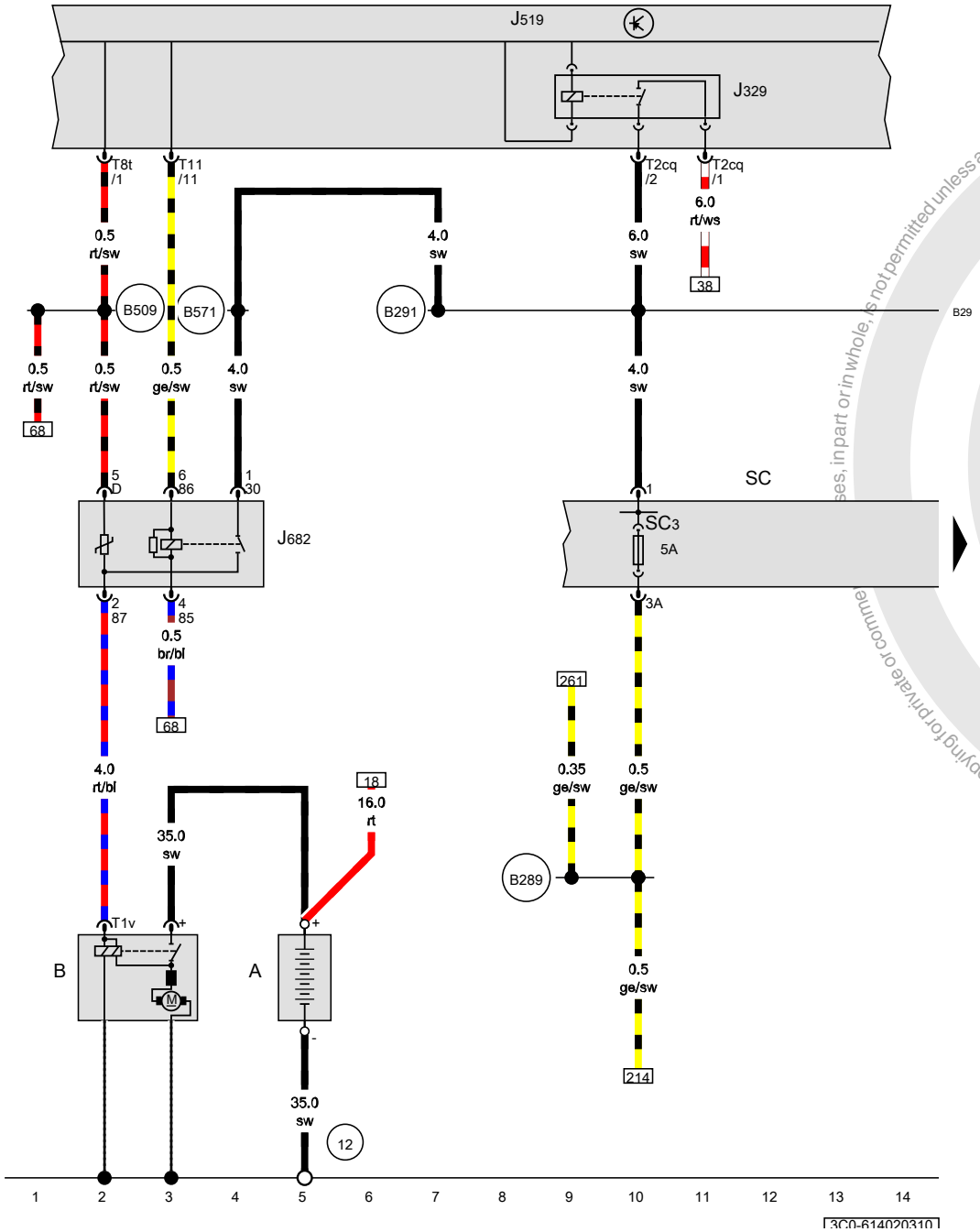
F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
K	Dash panel insert
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T3bu	3-pin connector
T6e	6-pin connector
T14a	14-pin connector, on left in engine compartment
T32c	32-pin connector

2.0l petrol engine , CBFA

From May 2009

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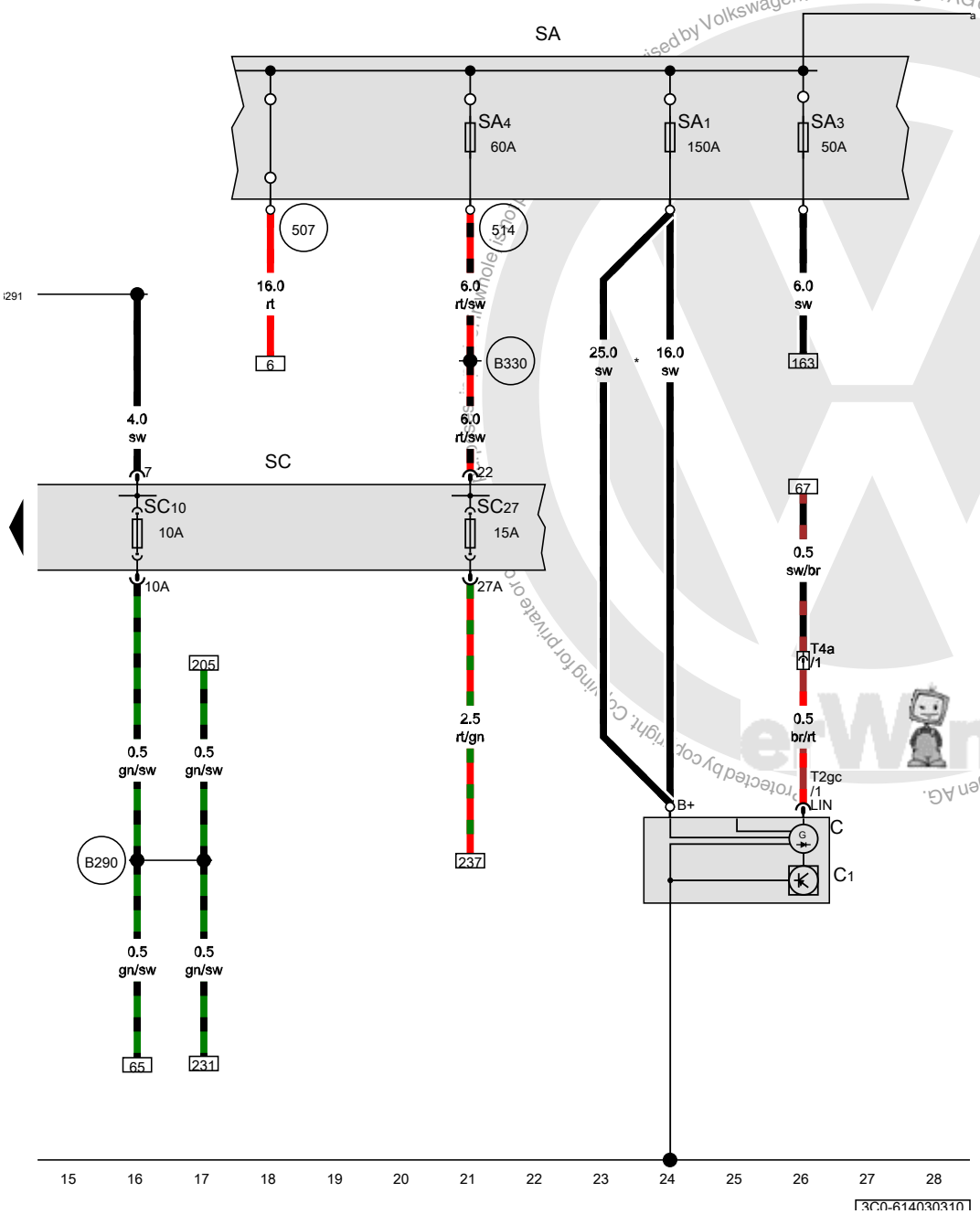
Battery, Starter, Terminal 15 voltage supply relay, Onboard supply control unit, Terminal 50 voltage supply relay, Fuse holder C



A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay
SC	Fuse holder C
SC3	Fuse 3 on fuse holder C
T1a	Single connector
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
B289	Positive connection 13 (15a) in main wiring harness
B291	Positive connection 15 (15a) in main wiring harness
B509	Connection 3 (diagnosis), in main wiring harness
B571	Connection 38, in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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or	=	orange
rs	=	pink

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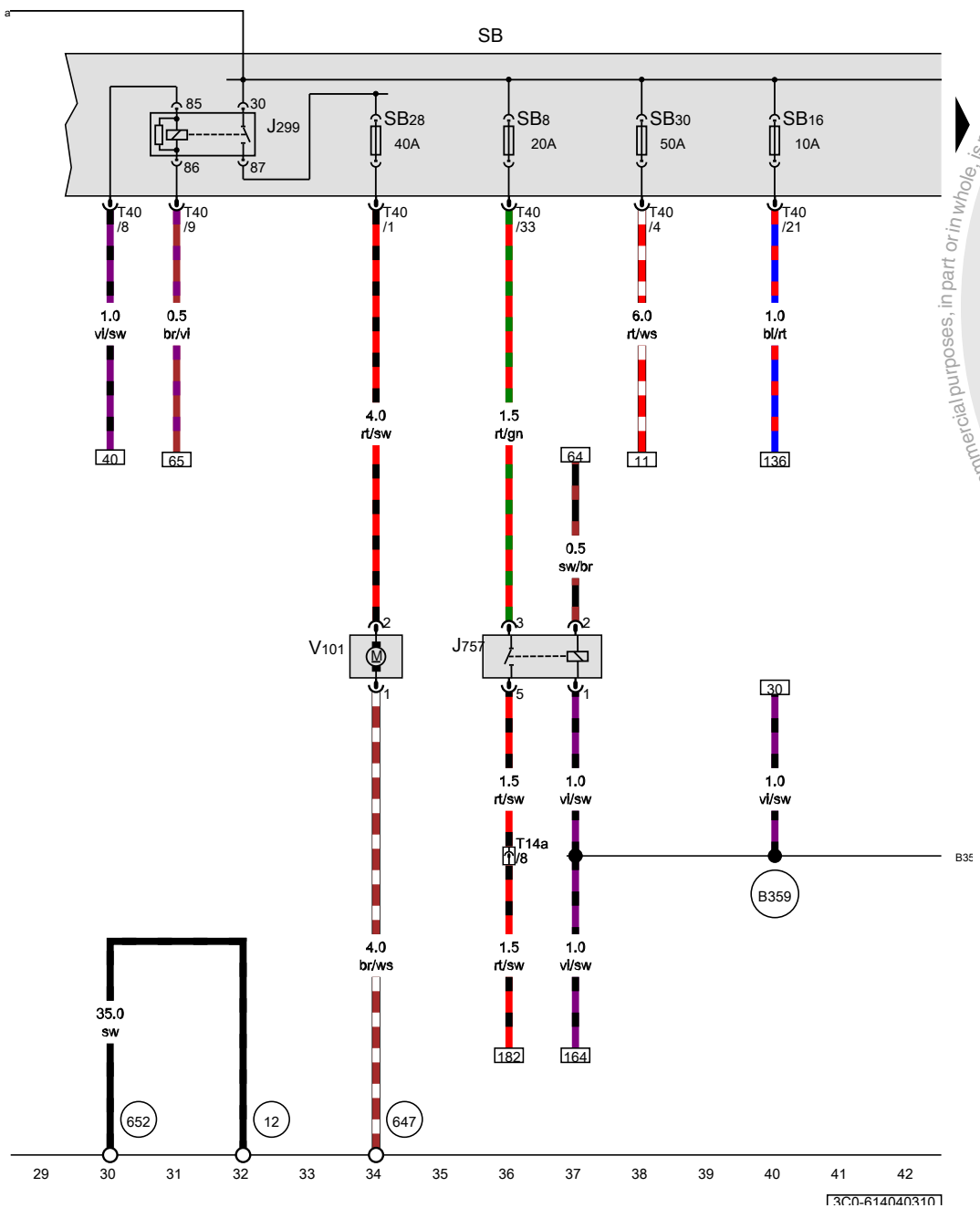


Alternator, Fuse holder A, Fuse holder C

C	Alternator
C1	Voltage regulator
SA	Fuse holder A
SA1	Fuse 1 in fuse holder A
SA3	Fuse 3 in fuse holder A
SA4	Fuse 4 in fuse holder A
SC	Fuse holder C
SC10	Fuse 10 on fuse holder C
SC27	Fuse 27 on fuse holder C
T2gc	2-pin connector
T4a	4-pin connector, near starter
507	Threaded connection (30), on battery fuse holder
514	Threaded connection 4 (30a) on relay plate
B290	Positive connection 14 (15a) in main wiring harness
B291	Positive connection 15 (15a) in main wiring harness
B330	Positive connection 16 (30a) in main wiring harness
*	Only models with 140A alternator

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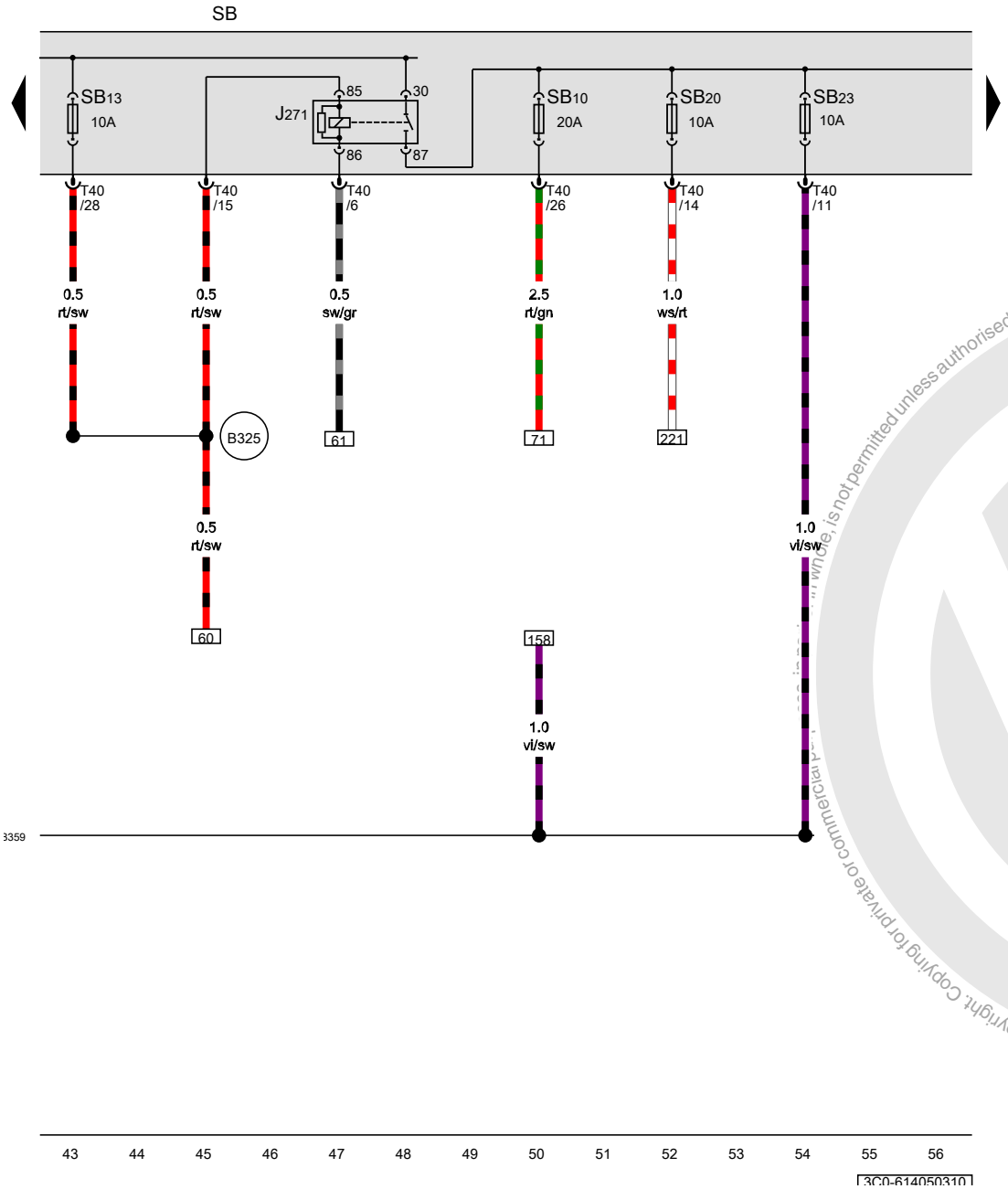


Secondary air pump relay, Fuse holder B, Secondary air pump motor, Earth point, engine and gearbox earth

J299	Secondary air pump relay
J757	Engine component current supply relay
SB	Fuse holder B
SB8	Fuse 8 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T14a	14-pin connector, on left in engine compartment
T40	40-pin connector
V101	Secondary air pump motor
12	Earth point, on left in engine compartment
647	Earth point 3, on bulkhead
652	Earth point, engine and gearbox earth
B359	Positive connection 10 (87a) in main wiring harness

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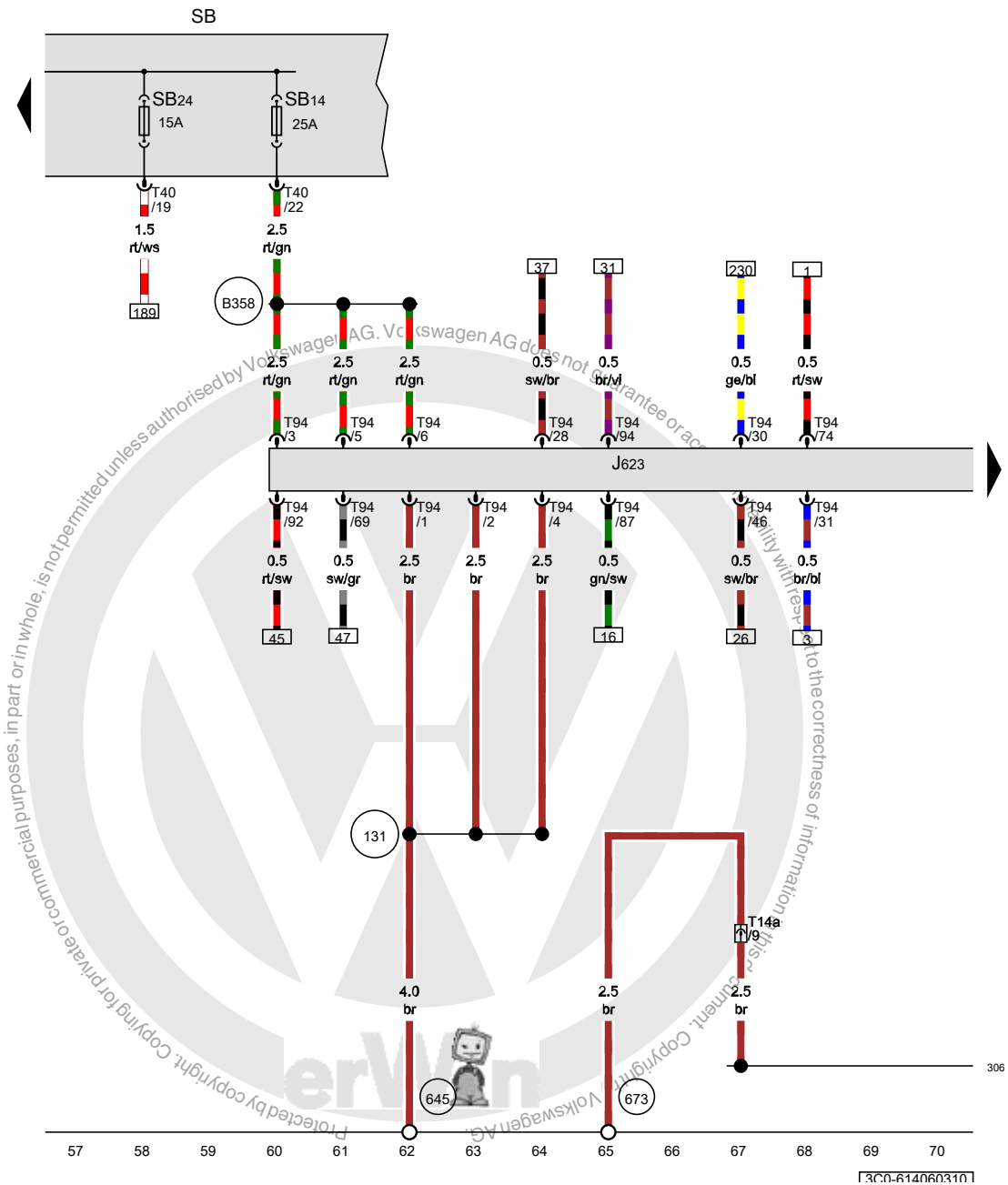


Main relay, Fuse holder B

J271	Main relay
SB	Fuse holder B
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
T40	40-pin connector
B325	Positive connection 11 (30a) in main wiring harness
B359	Positive connection 10 (87a) in main wiring harness

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Engine control unit, Fuse holder B

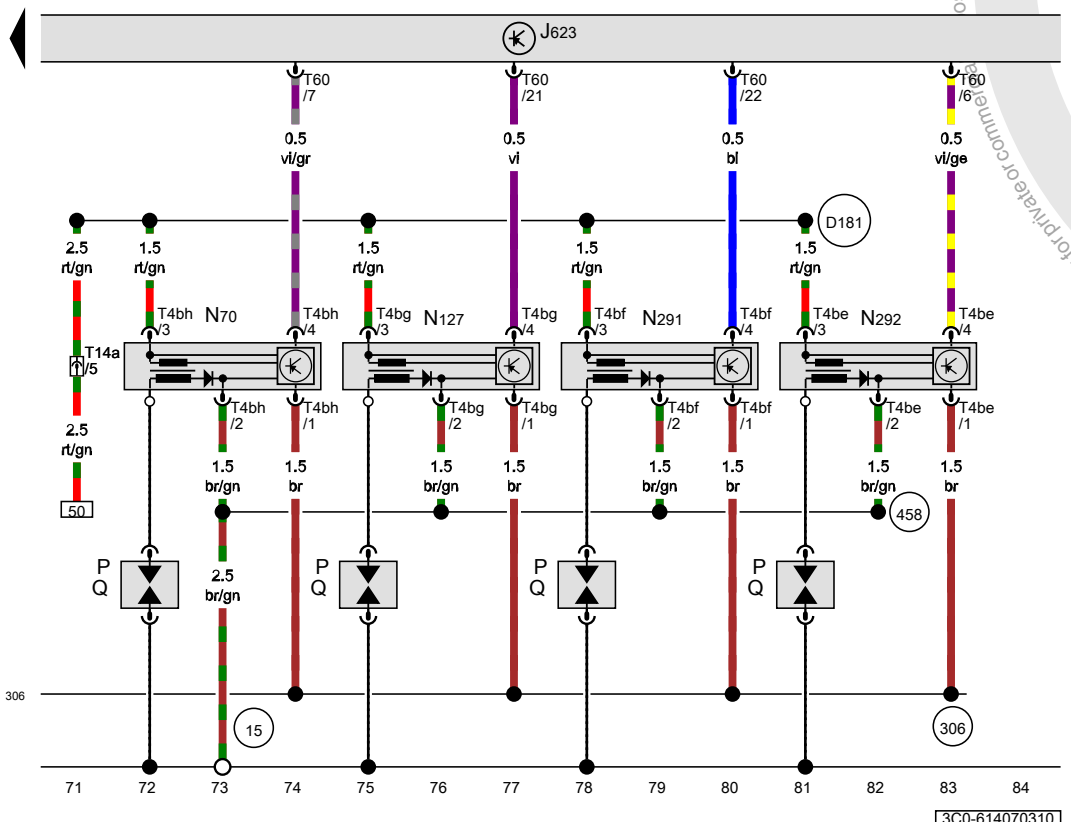
J623	Engine control unit, central in plenum chamber
SB	Fuse holder B
SB14	Fuse 14 on fuse holder B
SB24	Fuse 24 on fuse holder B
T14a	14-pin connector
T40	40-pin connector
T94	94-pin connector
131	Earth connection 2, in engine compartment wiring harness
306	Earth connection (ignition coils), in engine prewiring harness
645	Earth point 1, on bulkhead
673	Earth point 3, on front of left longitudinal member
B358	Positive connection 9 (87a) in main wiring harness

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Engine control unit, Ignition coil 1 with output stage, Ignition coil 2 with output stage, Ignition coil 3 with output stage, Ignition coil 4 with output stage, Spark plug connector, Spark plugs

J623	Engine control unit, central in plenum chamber
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4be	4-pin connector
T4bf	4-pin connector
T4bg	4-pin connector
T4bh	4-pin connector
T14a	14-pin connector
T60	60-pin connector
15	Earth point, on cylinder head
306	Earth connection (ignition coils), in engine prewiring harness
458	Earth point 3, engine prewiring harness
D181	Connection 2 (87a), in engine compartment wiring harness

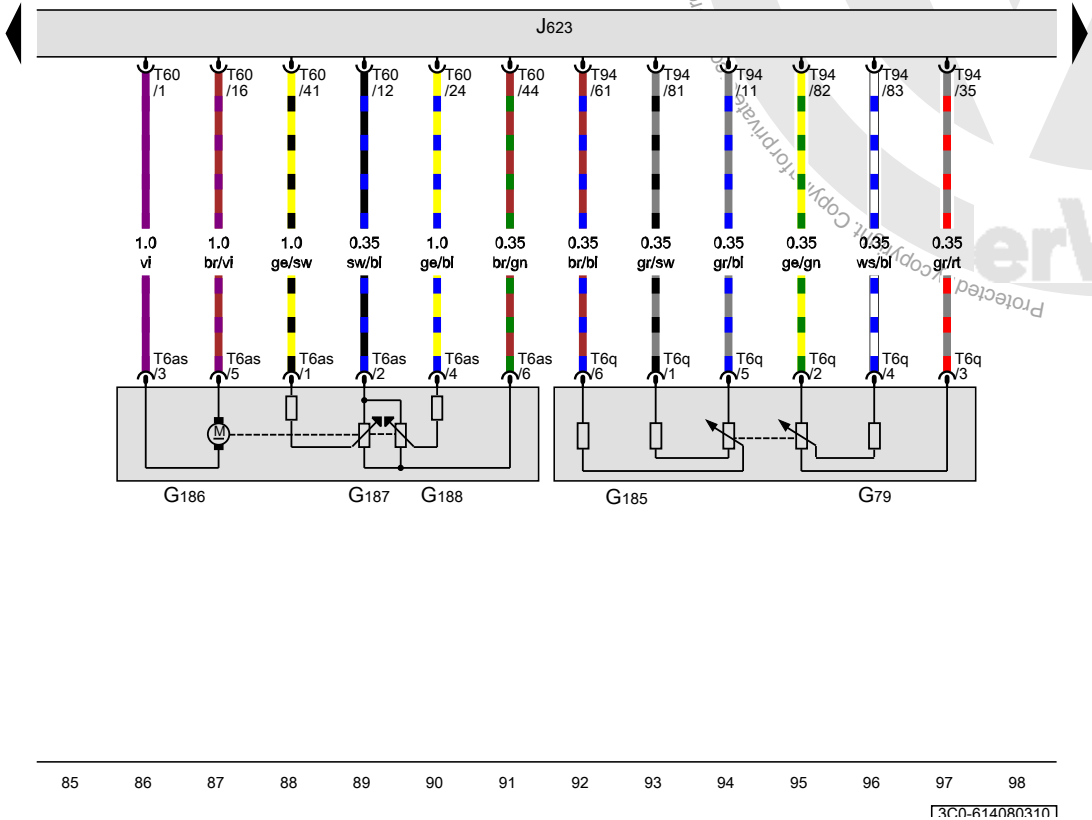


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Accelerator position sender, Throttle valve drive for electric throttle, Engine control unit

G79	Accelerator position sender
G185	Accelerator position sender 2
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J623	Engine control unit, central in plenum chamber
T6as	6-pin connector
T6q	6-pin connector
T60	60-pin connector
T94	94-pin connector

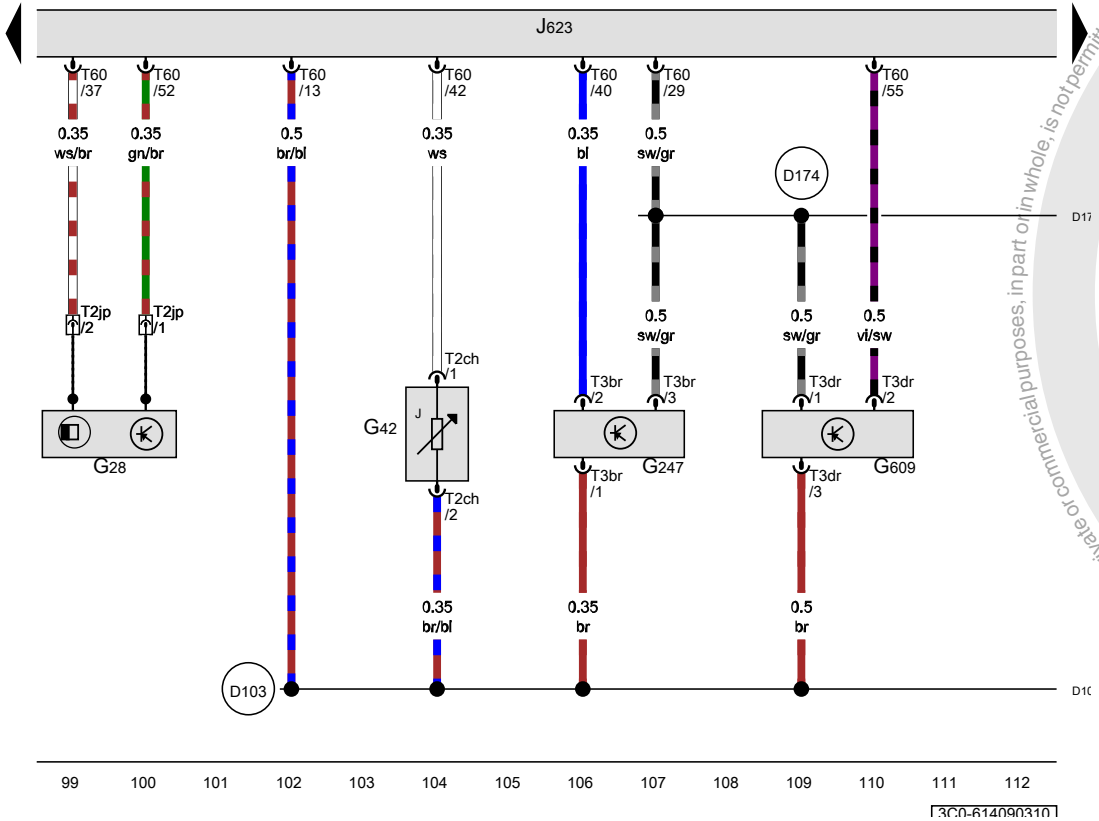


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Engine speed sender, Intake air temperature sender, Fuel pressure sender, Sender 1 for secondary air pressure, Engine control unit

G28	Engine speed sender
G42	Intake air temperature sender
G247	Fuel pressure sender
G609	Sender 1 for secondary air pressure
J623	Engine control unit, central in plenum chamber
T2ch	2-pin connector
T2jp	2-pin connector
T3br	3-pin connector
T3dr	3-pin connector
T60	60-pin connector
D103	Connection 3 in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

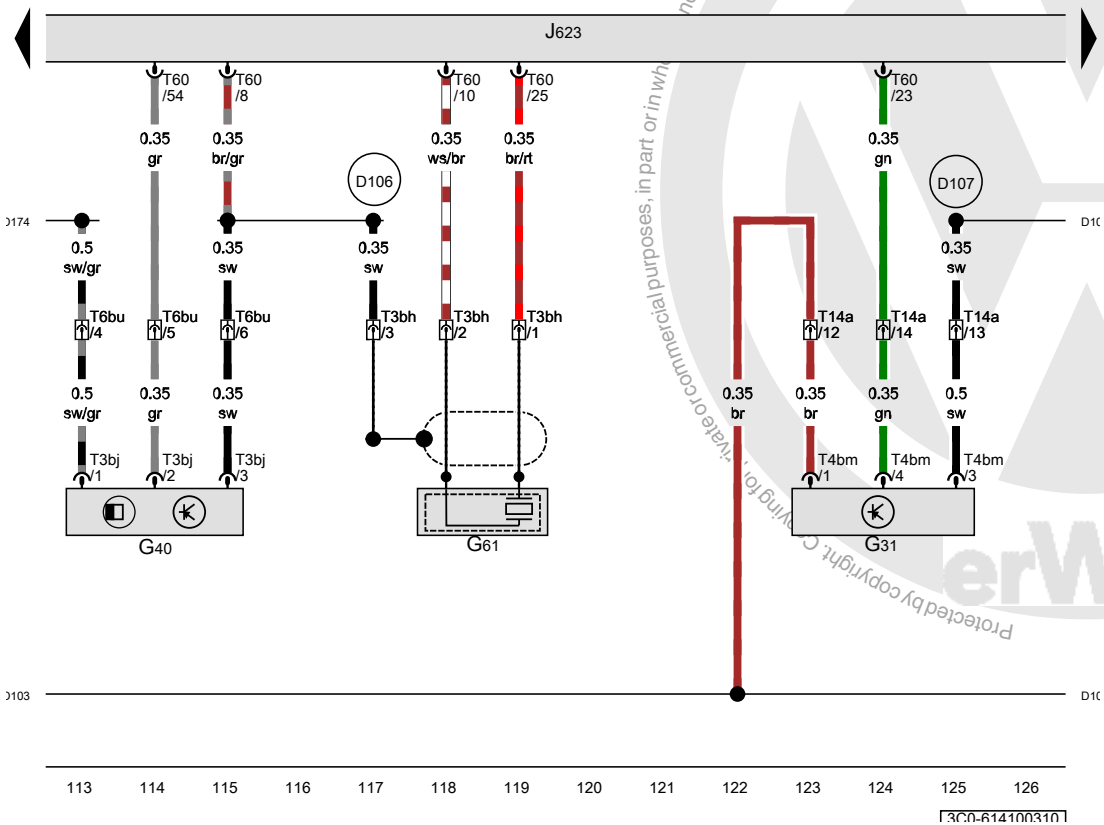


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Charge pressure sender, Hall sender, Knock sensor 1, Engine control unit

G31	Charge pressure sender
G40	Hall sender
G61	Knock sensor 1
J623	Engine control unit, central in plenum chamber
T3bh	3-pin connector
T3bj	3-pin connector
T4bm	4-pin connector
T6bu	6-pin connector, near cylinder head
T14a	14-pin connector, on left in engine compartment
T60	60-pin connector
D103	Connection 3 in engine compartment wiring harness
D106	Connection 4 in engine compartment wiring harness
D107	Connection 5 in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

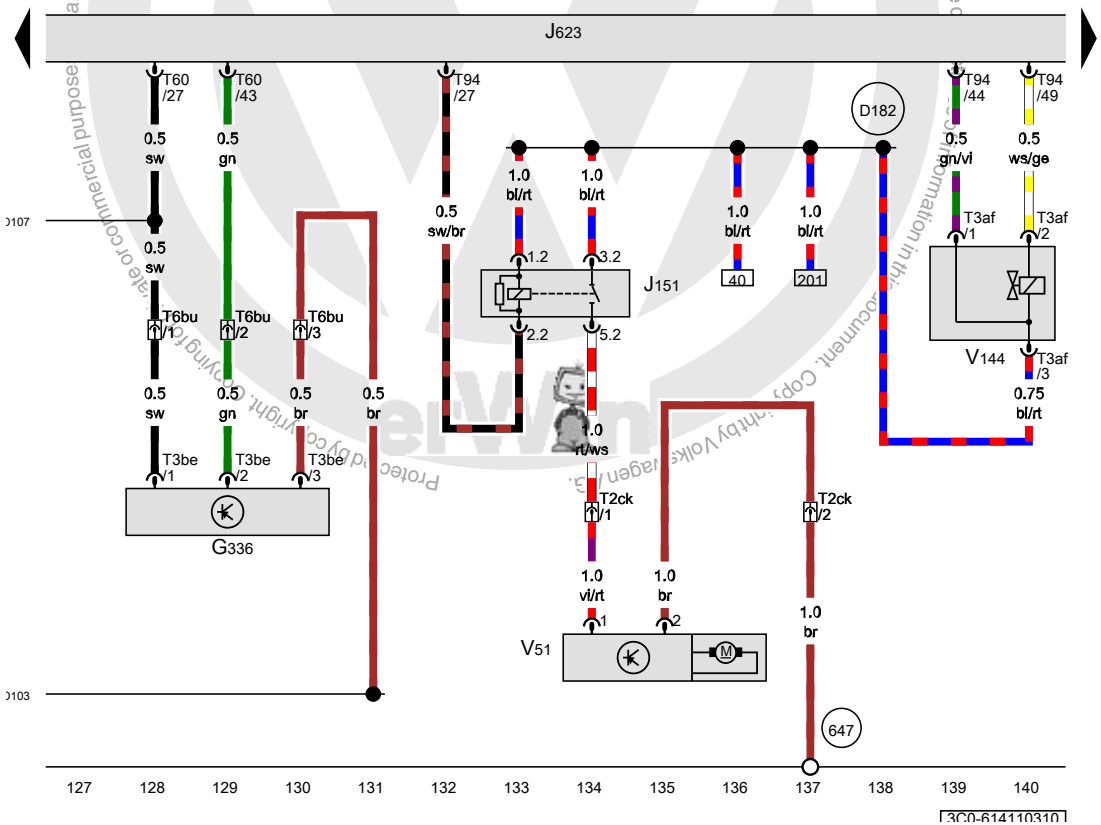


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Engine control unit, Continued coolant circulation pump, Fuel system diagnostic pump

G336	Intake manifold flap potentiometer
J151	Continued coolant circulation relay
J623	Engine control unit, central in plenum chamber
T2ck	2-pin connector
T3af	3-pin connector
T3be	3-pin connector
T6bu	6-pin connector, near cylinder head
T60	60-pin connector
T94	94-pin connector
V51	Continued coolant circulation pump
V144	Fuel system diagnostic pump
647	Earth point 3, on bulkhead
D103	Connection 3 in engine compartment wiring harness
D107	Connection 5 in engine compartment wiring harness
D182	Connection 3 (87a), in engine compartment wiring harness

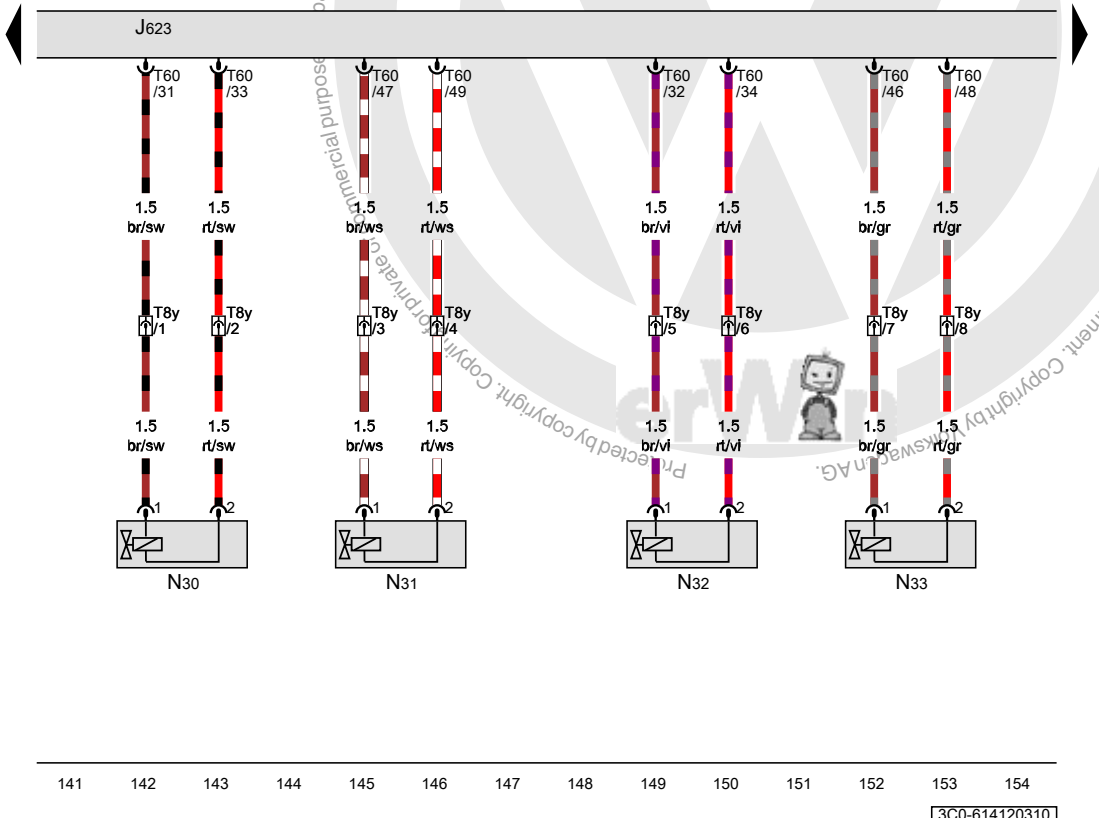


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Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

J623	Engine control unit, central in plenum chamber
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8y	8-pin connector
T60	60-pin connector

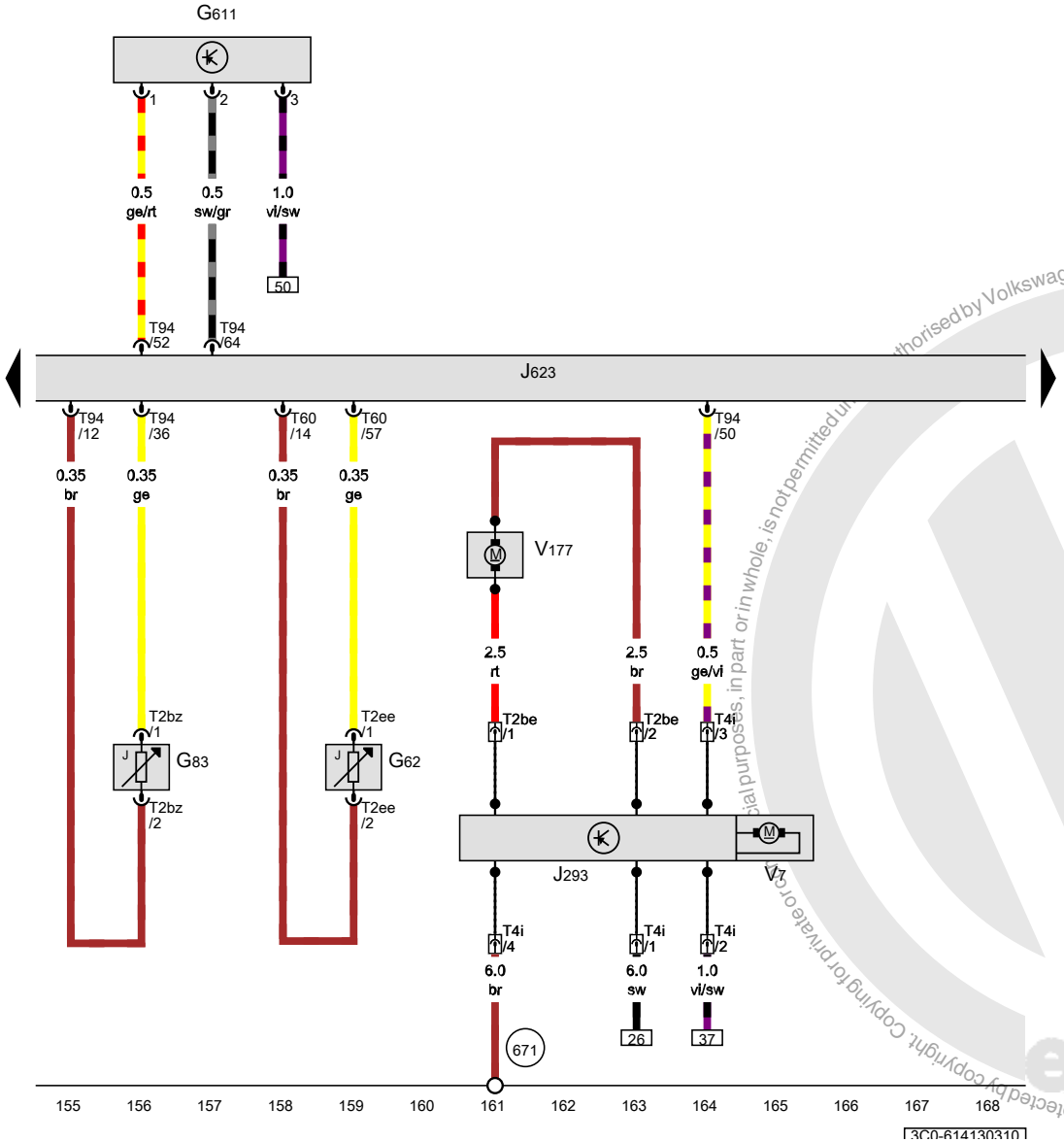


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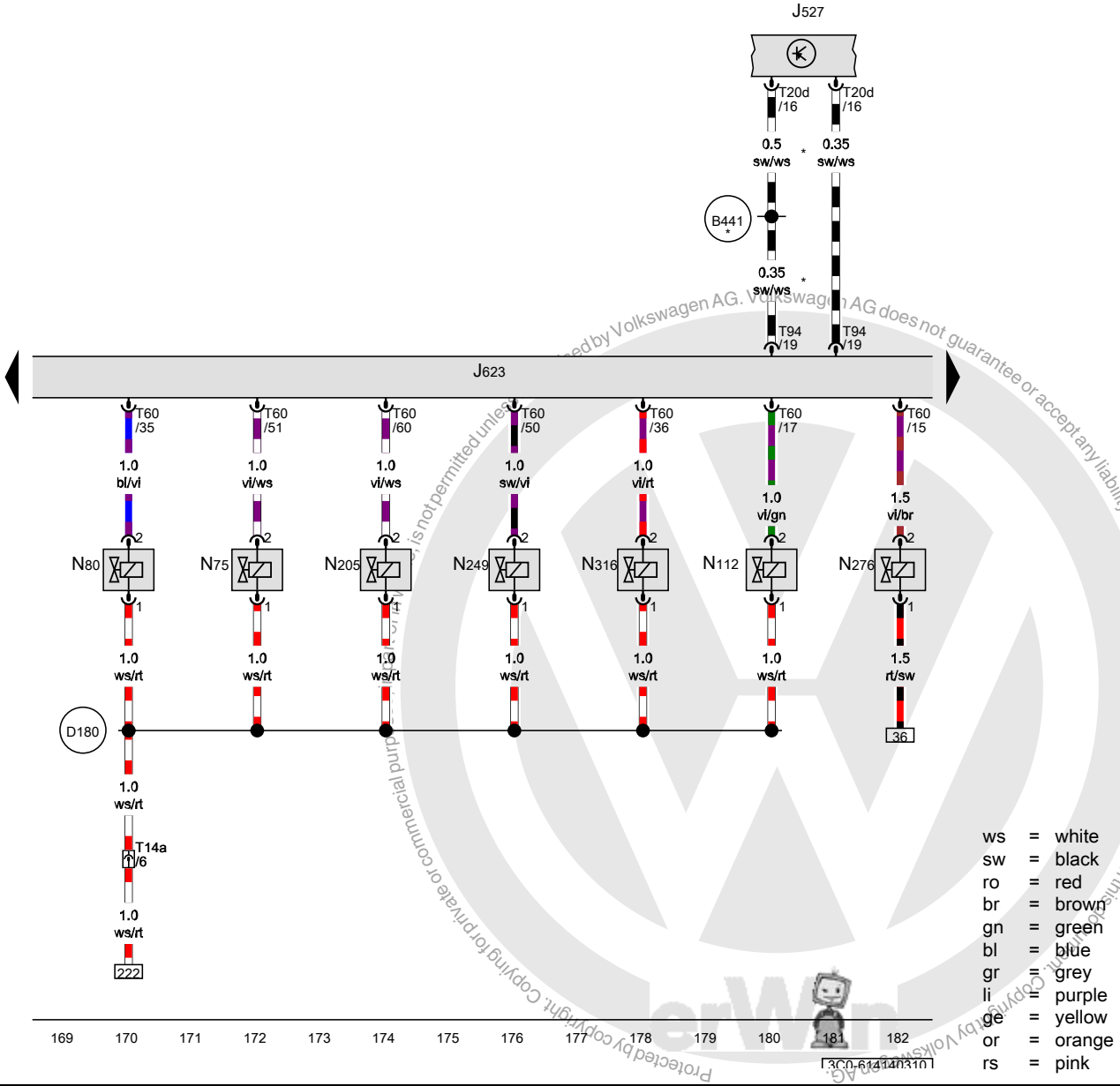
Coolant temperature sender, Radiator outlet coolant temperature sender, Radiator identification sensor, Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2

G62	Coolant temperature sender
G83	Radiator outlet coolant temperature sender, black
G611	Radiator identification sensor
J293	Radiator fan control unit
J623	Engine control unit, central in plenum chamber
T2be	2-pin connector, on lock carrier
T2bz	2-pin connector
T2ee	2-pin connector
T4i	4-pin connector, on lock carrier
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member



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Steering column electronics control unit, Engine control unit, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Secondary air inlet valve, Camshaft control valve 1, Turbocharger air recirculation valve, Fuel pressure regulating valve, Intake manifold flap valve

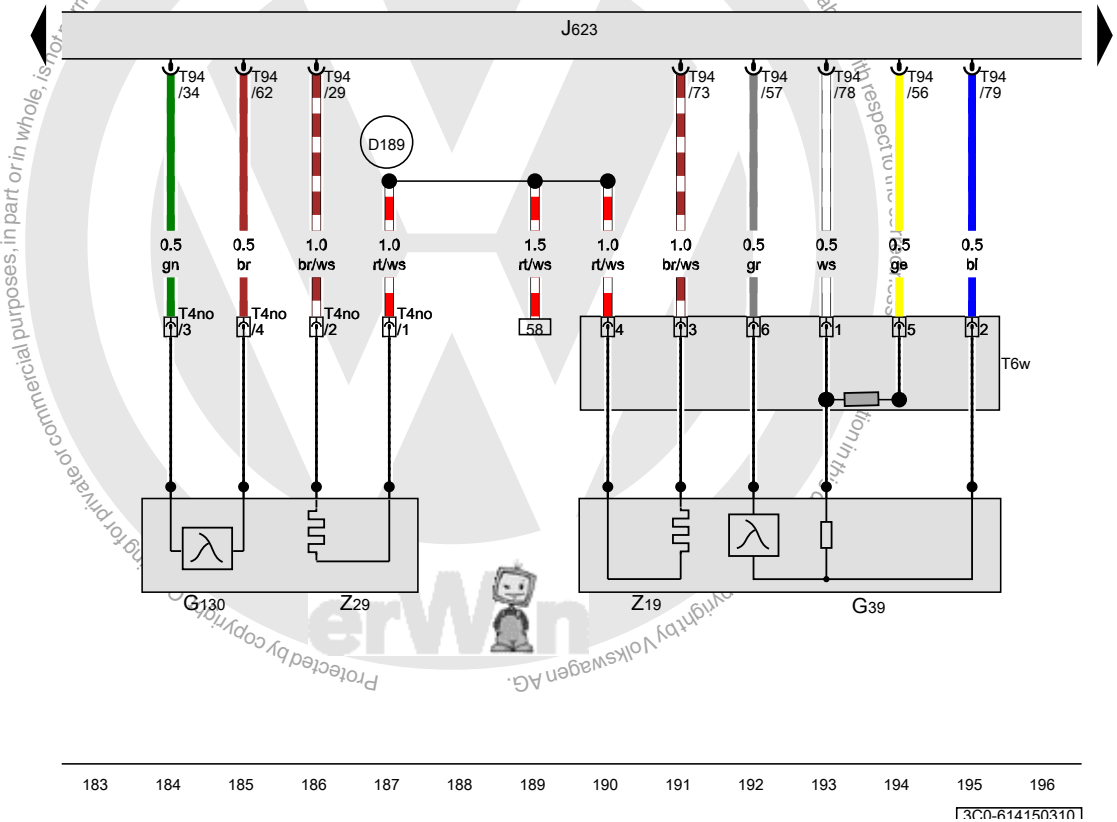
J527	Steering column electronics control unit
J623	Engine control unit, central in plenum chamber
N75	Charge pressure control solenoid valve
N80	Activated charcoal filter solenoid valve 1
N112	Secondary air inlet valve
N205	Camshaft control valve 1
N249	Turbocharger air recirculation valve
N276	Fuel pressure regulating valve
N316	Intake manifold flap valve
T14a	14-pin connector
T20d	20-pin connector
T60	60-pin connector
T94	94-pin connector
B441	Connection (CCS), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness
*	Only models with adaptive cruise control (ACC)

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Lambda probe, Lambda probe after catalytic converter, Engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter

G39	Lambda probe
G130	Lambda probe after catalytic converter
J623	Engine control unit, central in plenum chamber
T4no	4-pin connector
T6dq	6-pin connector
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
(D189)	Connection (87a) in engine prewiring harness

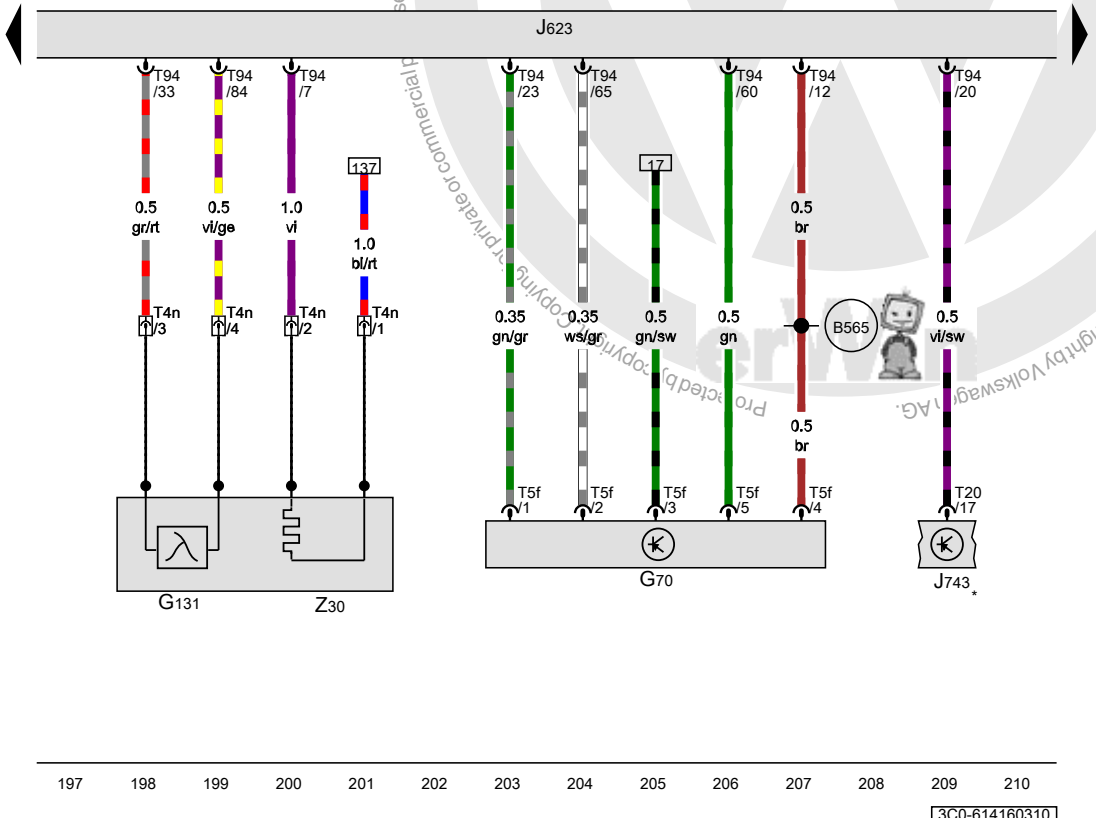


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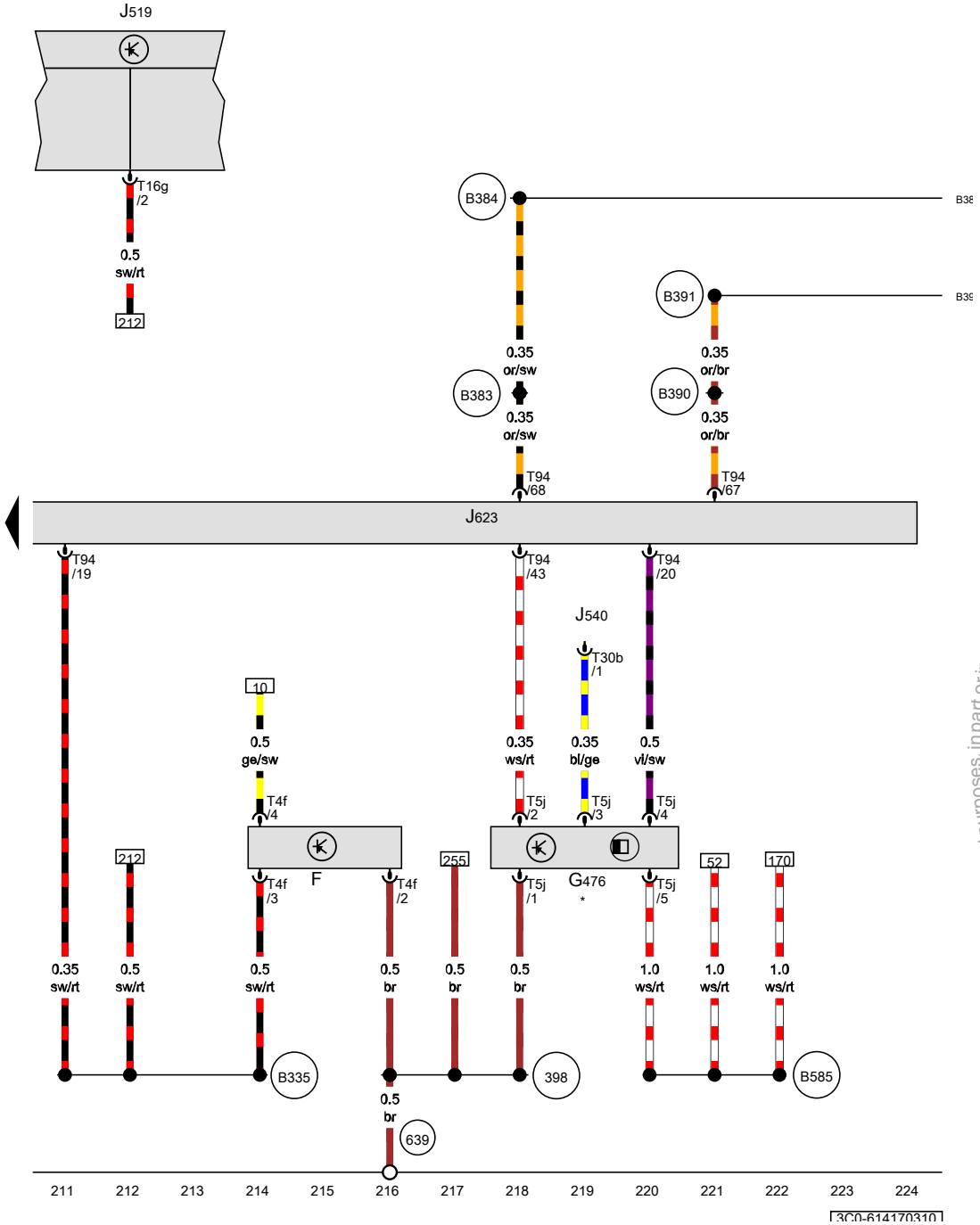
Air mass meter, Lambda probe 2 after catalytic converter, Engine control unit, Mechatronic unit for dual clutch gearbox, Lambda probe 2 heater after catalytic converter

G70	Air mass meter
G131	Lambda probe 2 after catalytic converter
J623	Engine control unit, central in plenum chamber
J743	Mechatronic unit for dual clutch gearbox
T4n	4-pin connector
T5f	5-pin connector
T20	20-pin connector
T94	94-pin connector
Z30	Lambda probe 2 heater after catalytic converter
B565	Connection 32, in main wiring harness
*	Only models with automatic gearbox



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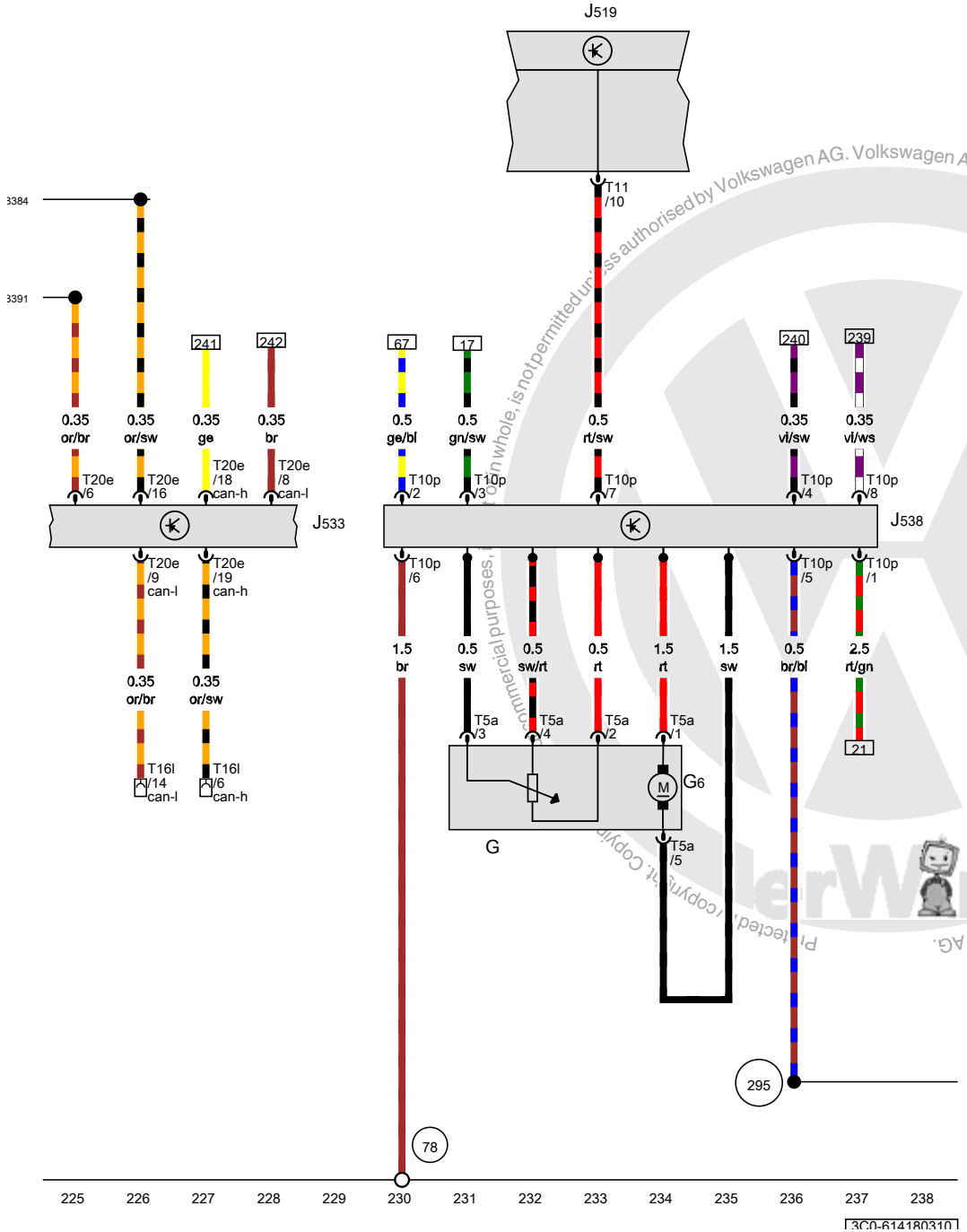


Brake light switch, Clutch position sender, Onboard supply control unit, Engine control unit

F	Brake light switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit, central in plenum chamber
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T30b	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B585	Positive connection 2 (87a), in interior wiring harness
*	Only models with manual gearbox

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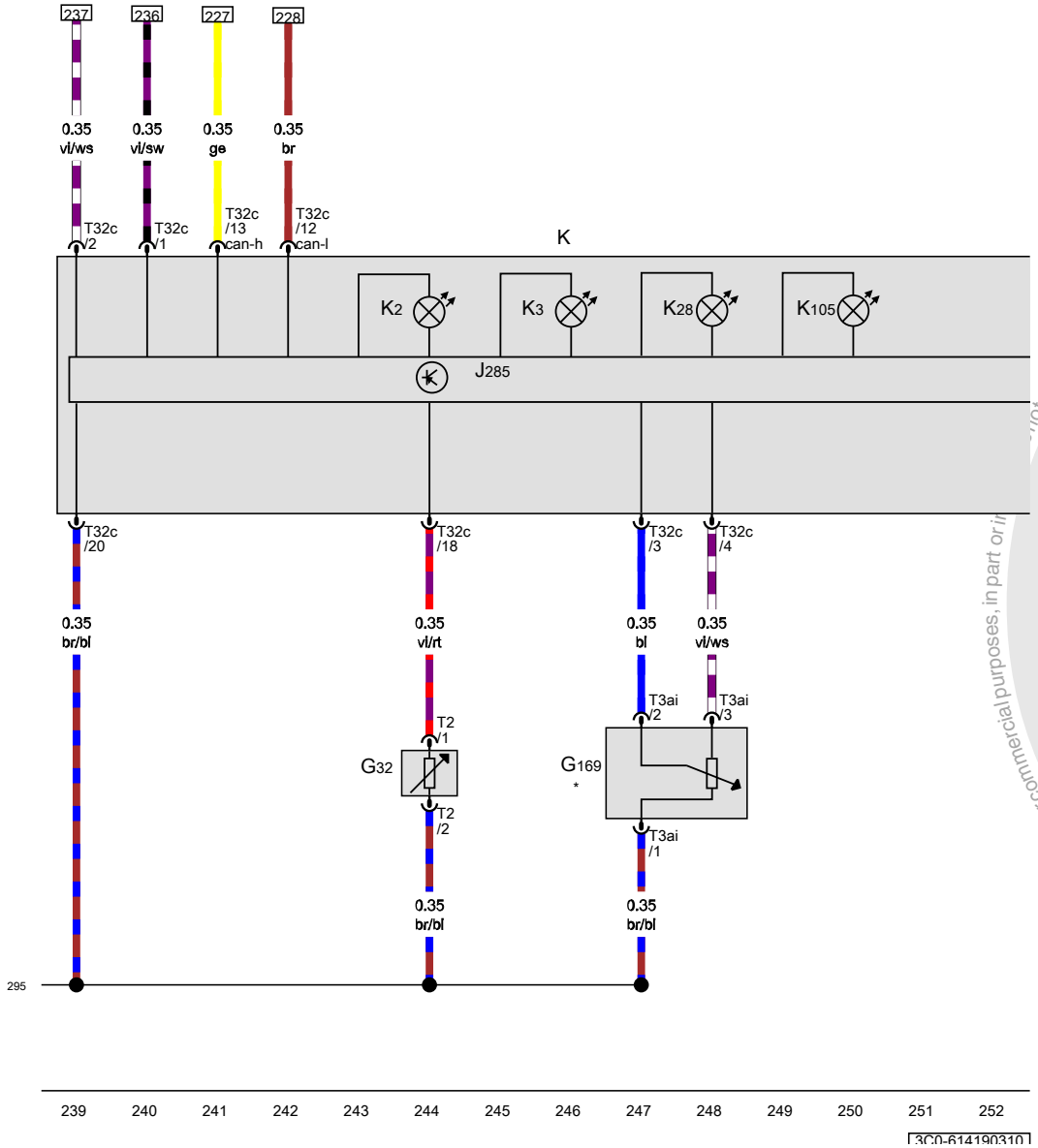
Fuel gauge sender, Fuel system pressurisation pump, Onboard supply control unit, Data bus diagnostic interface, Fuel pump control unit

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J538	Fuel pump control unit
T5a	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T16l	16-pin connector, on diagnostic connection
T20e	20-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

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Coolant shortage indicator sender, Fuel gauge sender 2, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Reserve fuel warning lamp

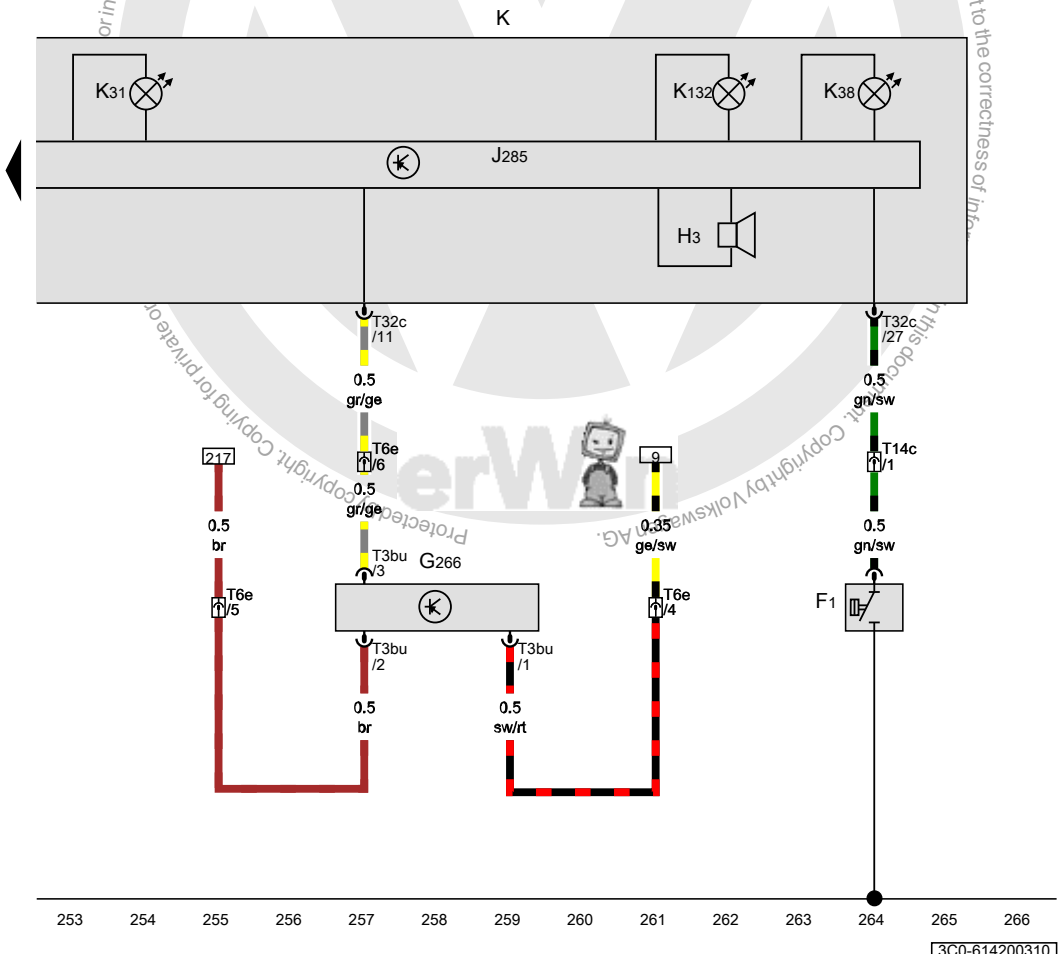


G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K105	Reserve fuel warning lamp
T2	2-pin connector
T3ai	3-pin connector
T32c	32-pin connector
295	Earth connection 10, in interior wiring harness
*	Only models with all-wheel drive

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or	=	orange
rs	=	pink

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Oil pressure switch, Oil level and oil temperature sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Cruise control system warning lamp, Oil level warning lamp, Electronic power control fault lamp

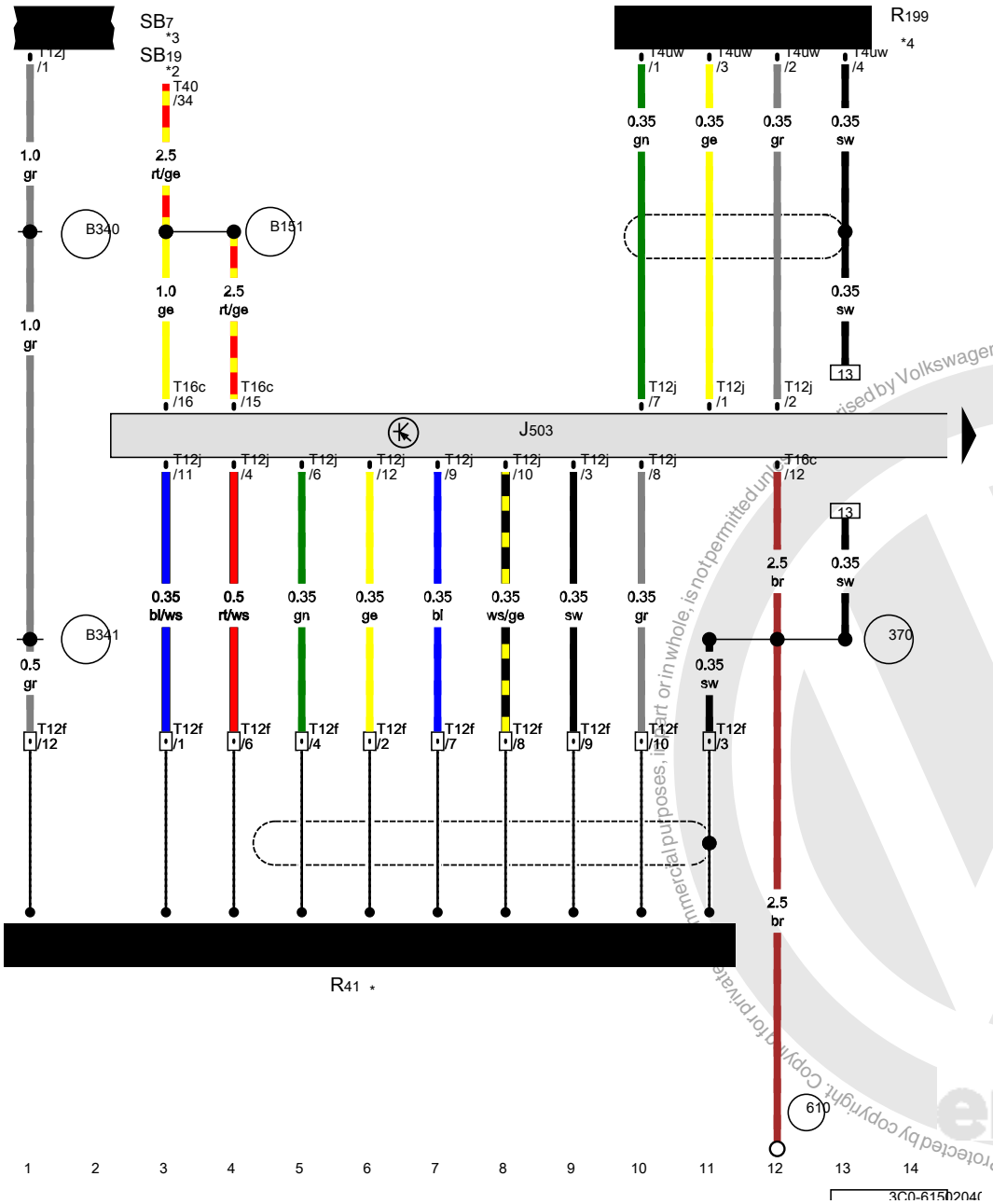
F1	Oil pressure switch
G266	Oil level and oil temperature sender
H3	Buzzer and gong
J285	Control unit in dash panel insert
K	Dash panel insert
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K132	Electronic power control fault lamp
T3bu	3-pin connector
T6e	6-pin connector
T14c	14-pin connector, on left in engine compartment
T32c	32-pin connector

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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Radio navigation system RNS 510

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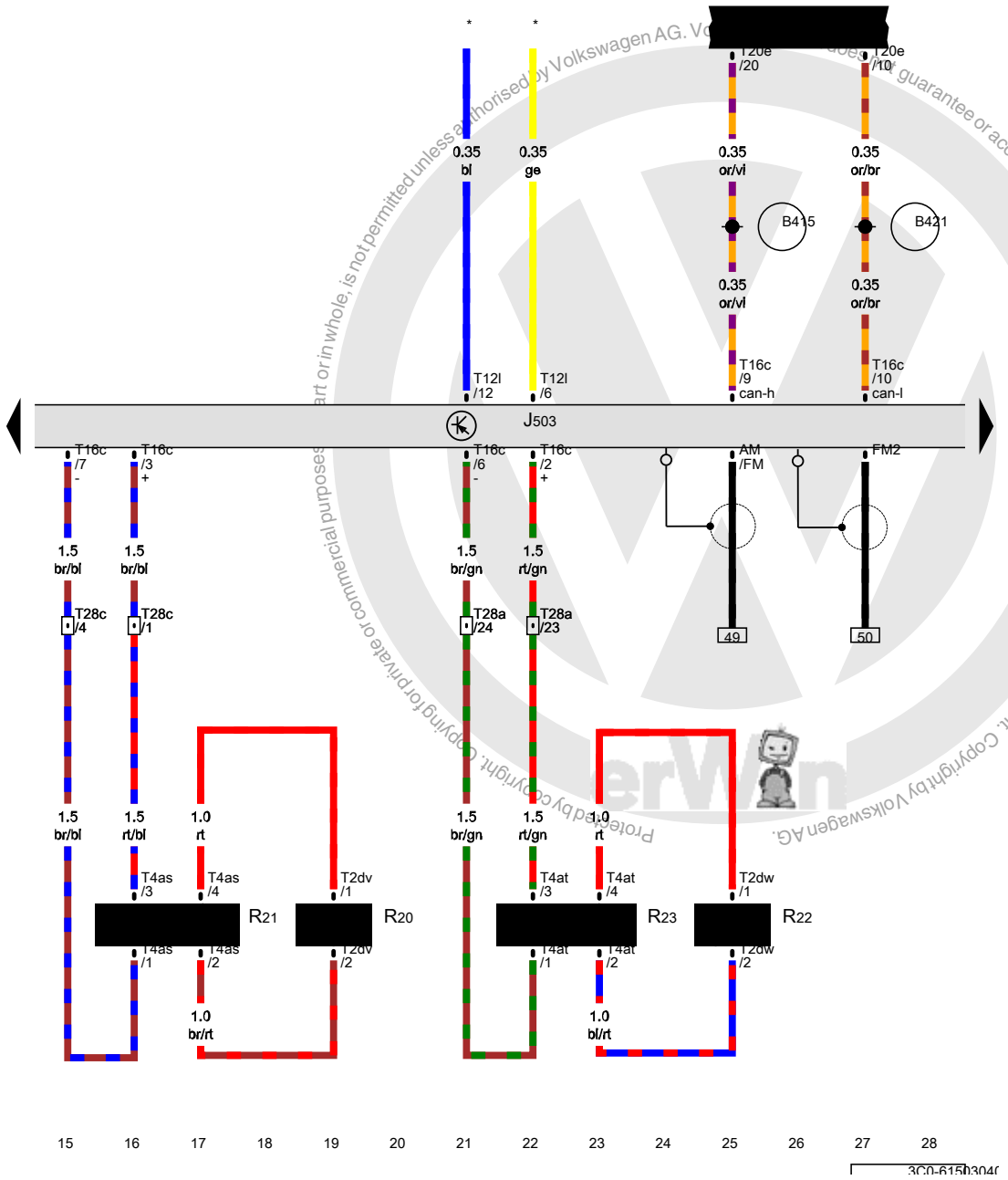


Control unit with display for radio and navigation system, onboard supply control unit, CD changer

J503	Control unit with display for radio and navigation
J519	Onboard supply control unit
R41	CD changer
R199	Connection for external audio sources
SB7	Fuse 7 on fuse holder B
SB19	Fuse 19 on fuse holder B
T4uw	4-pin connector
T12f	12-pin connector
T12j	12-pin connector
T16c	16-pin connector
T40	40-pin connector
370	Earth connection 5, in main wiring harness
610	Earth point (audio), at front under centre console
B151	Positive connection 3 (30a), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B341	Connection 2 (58d), in main wiring harness
*	Only models with CD changer
*2	Fuses in E-box, High
*3	Fuses in E-box, Low
*4	According to equipment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
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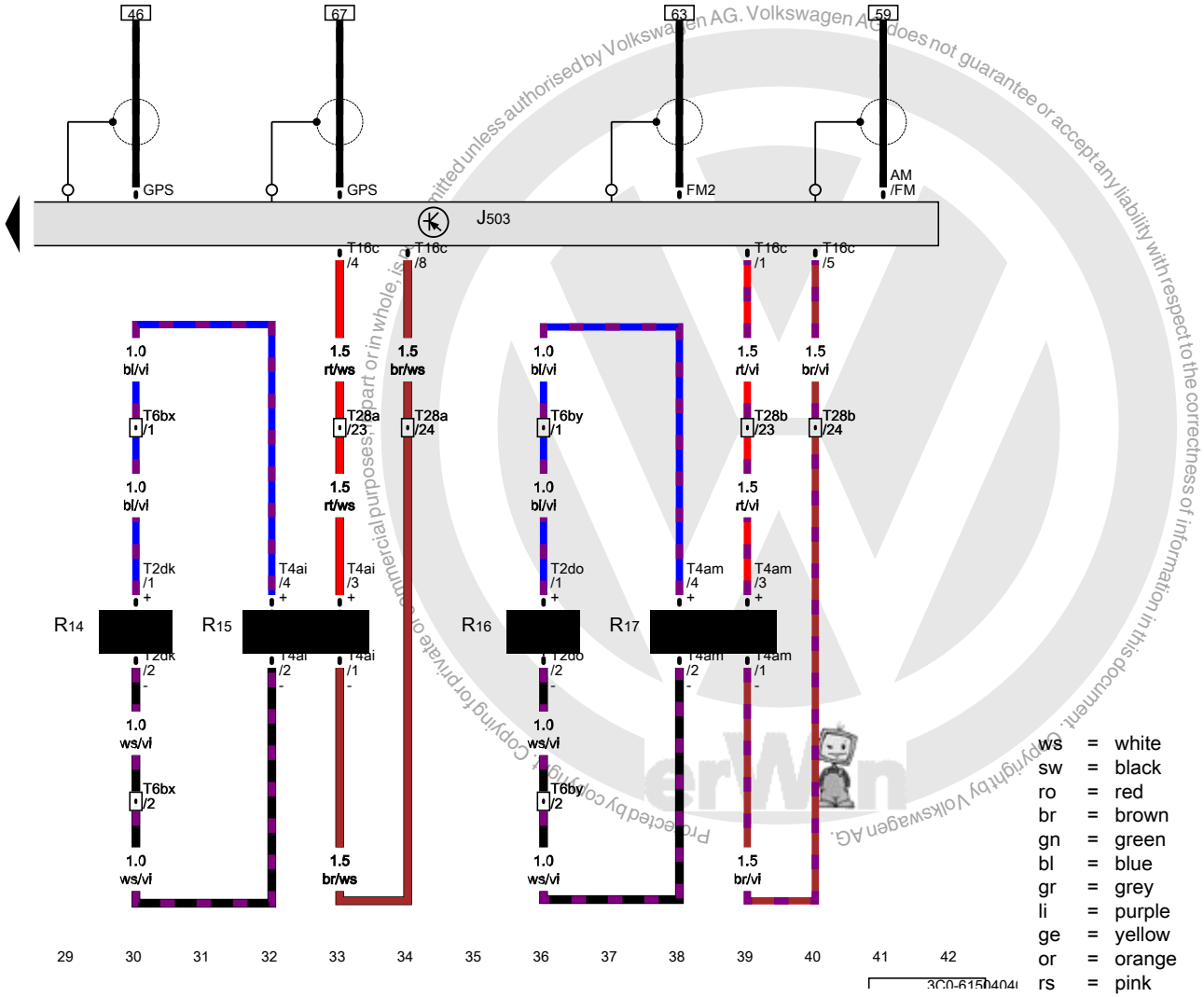
Control unit with display for radio and navigation, data bus diagnostic interface, front left treble loudspeaker, front left bass loudspeaker, front right bass loudspeaker

J503	Control unit with display for radio and navigation
J533	Data bus diagnosis interface
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T12l	12-pin connector
T16c	16-pin connector
T20e	20-pin connector
T28a	28-pin connector
T28c	28-pin connector
T54	54-pin connector
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
*	See respective current flow diagram for telephone system

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Control unit with display for radio and navigation system, rear left treble loudspeaker, rear left bass loudspeaker, rear right treble loudspeaker

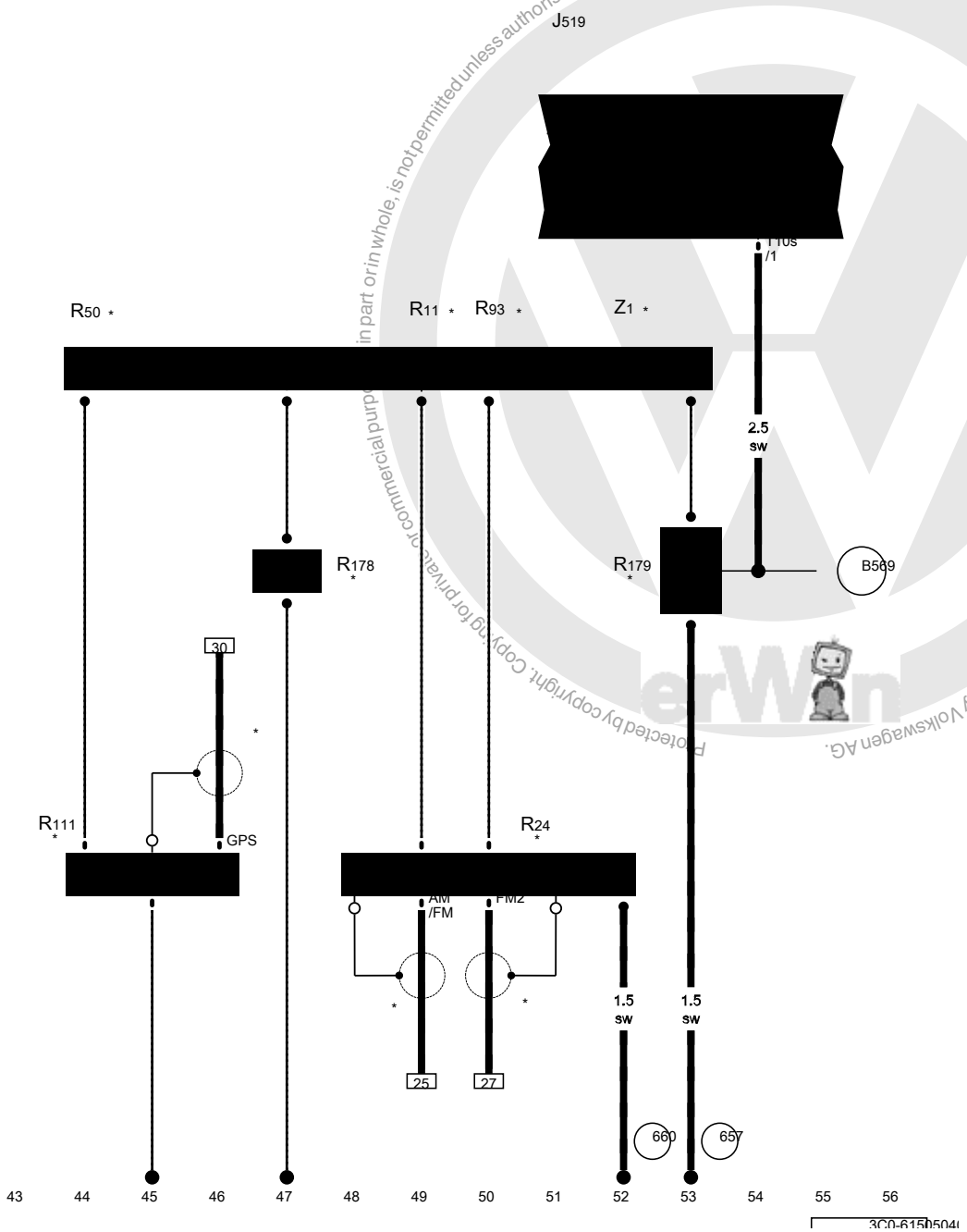
J503	Control unit with display for radio and navigation
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector
T6by	6-pin connector
T16c	16-pin connector
T28a	28-pin connector
T28b	28-pin connector



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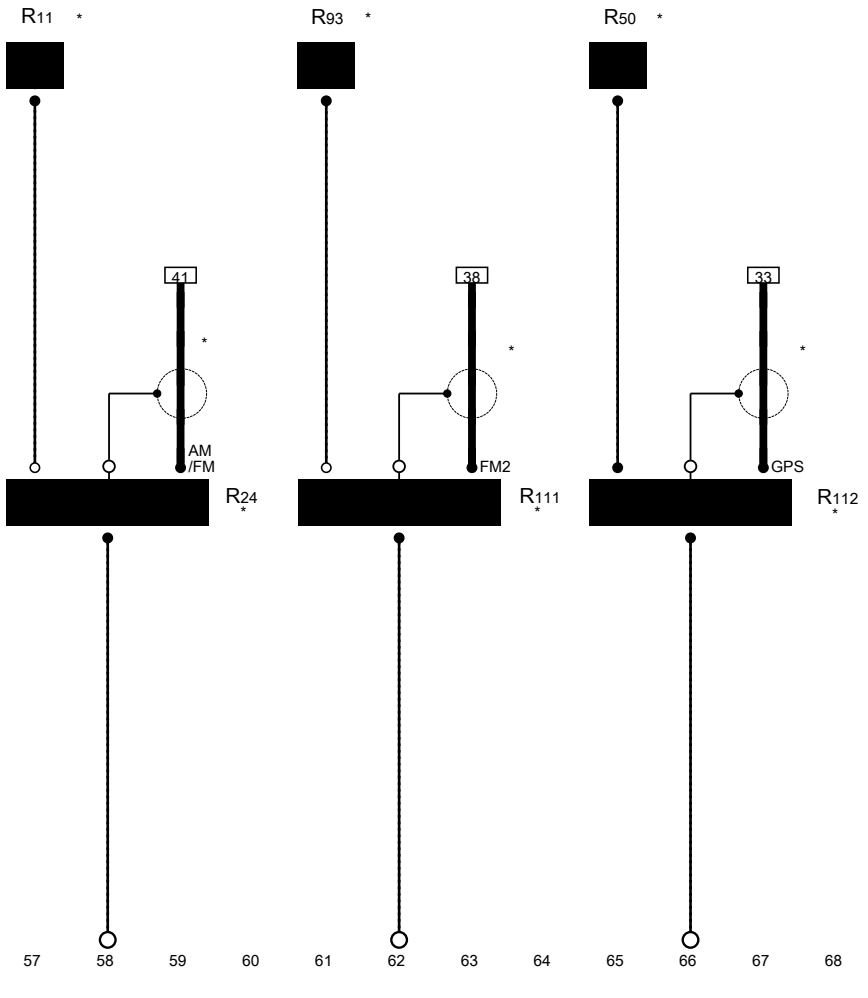
Heated rear window relay, onboard supply control unit, aerial, aerial amplifier, GPS aerial, radio aerial 2, aerial amplifier 2, frequency filter for frequency modulation (FM) in negative wire, frequency filter for frequency modulation (FM) in positive wire, heated rear window

J9	Heated rear window relay
J519	Onboard supply control unit
R11	Aerial
R24	Aerial amplifier
R50	GPS aerial
R93	Radio aerial 2
R111	Aerial amplifier 2
R178	Frequency modulation (FM) frequency filter in negative wire
R179	Frequency modulation (FM) frequency filter in positive wire
T10s	10-pin connector
Z1	Heated rear window
657	Earth point 1, on left near rear window
660	Earth point 2, on right near rear window
B569	Connection 36, in main wiring harness
*	Optional installation

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
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Aerial, aerial amplifier, GPS aerial, radio aerial 2, aerial amplifier 2, aerial amplifier 3

R11	Aerial
R24	Aerial amplifier, on left C-pillar
R50	GPS aerial
R93	Radio aerial 2
R111	Aerial amplifier 2, on right C-pillar
R112	Aerial amplifier 3
*	Optional installation



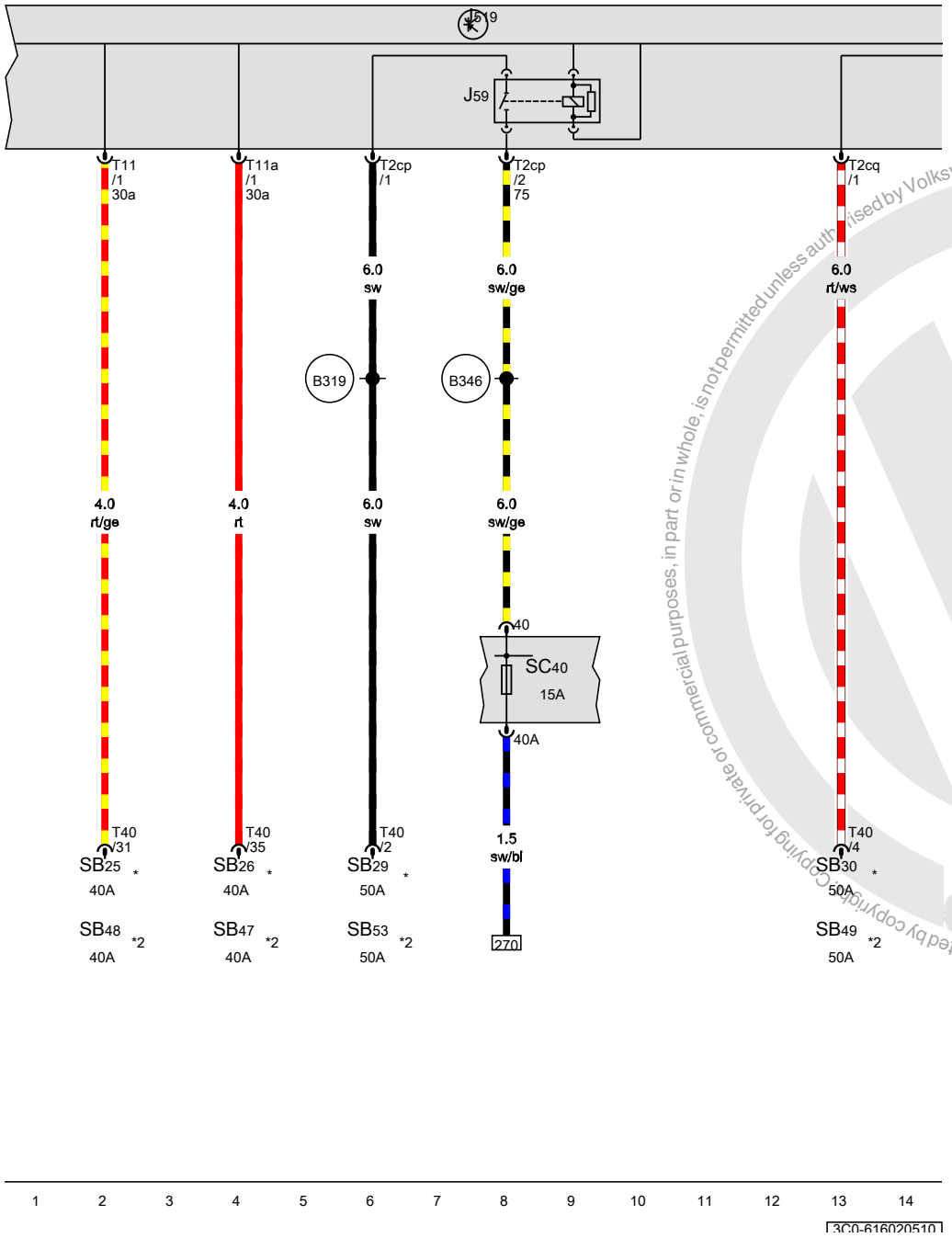
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Basic equipment

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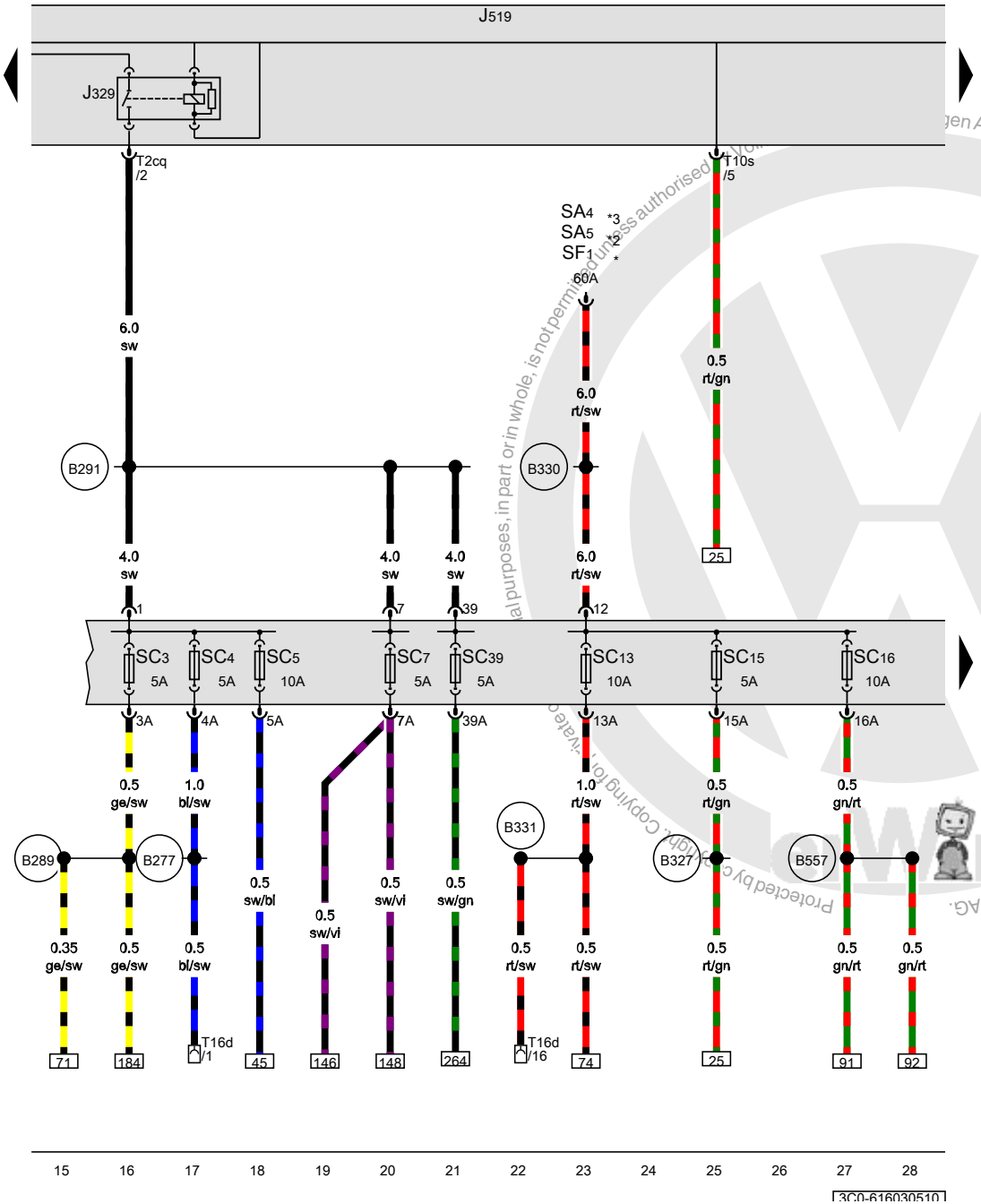


X-contact relief relay, Onboard supply control unit

J59	X-contact relief relay
J519	Onboard supply control unit
SB25	Fuse 25 on fuse holder B
SB26	Fuse 26 on fuse holder B
SB29	Fuse 29 on fuse holder B
SB30	Fuse 30 on fuse holder B
SC40	Fuse 40 on fuse holder C
SB47	Fuse 47 on fuse holder B
SB48	Fuse 48 on fuse holder B
SB49	Fuse 49 on fuse holder B
SB53	Fuse 53 on fuse holder B
T2cp	2-pin connector
T2cq	2-pin connector
T11	11-pin connector
T11a	11-pin connector
T40	40-pin connector
B319	Positive connection 5 (30a) in main wiring harness
B346	Connection 1 (75), in main wiring harness
*	Fuses in E-box, Low
*2	Fuses in E-box, High

ws	=	white
sw	=	black
ro	=	red
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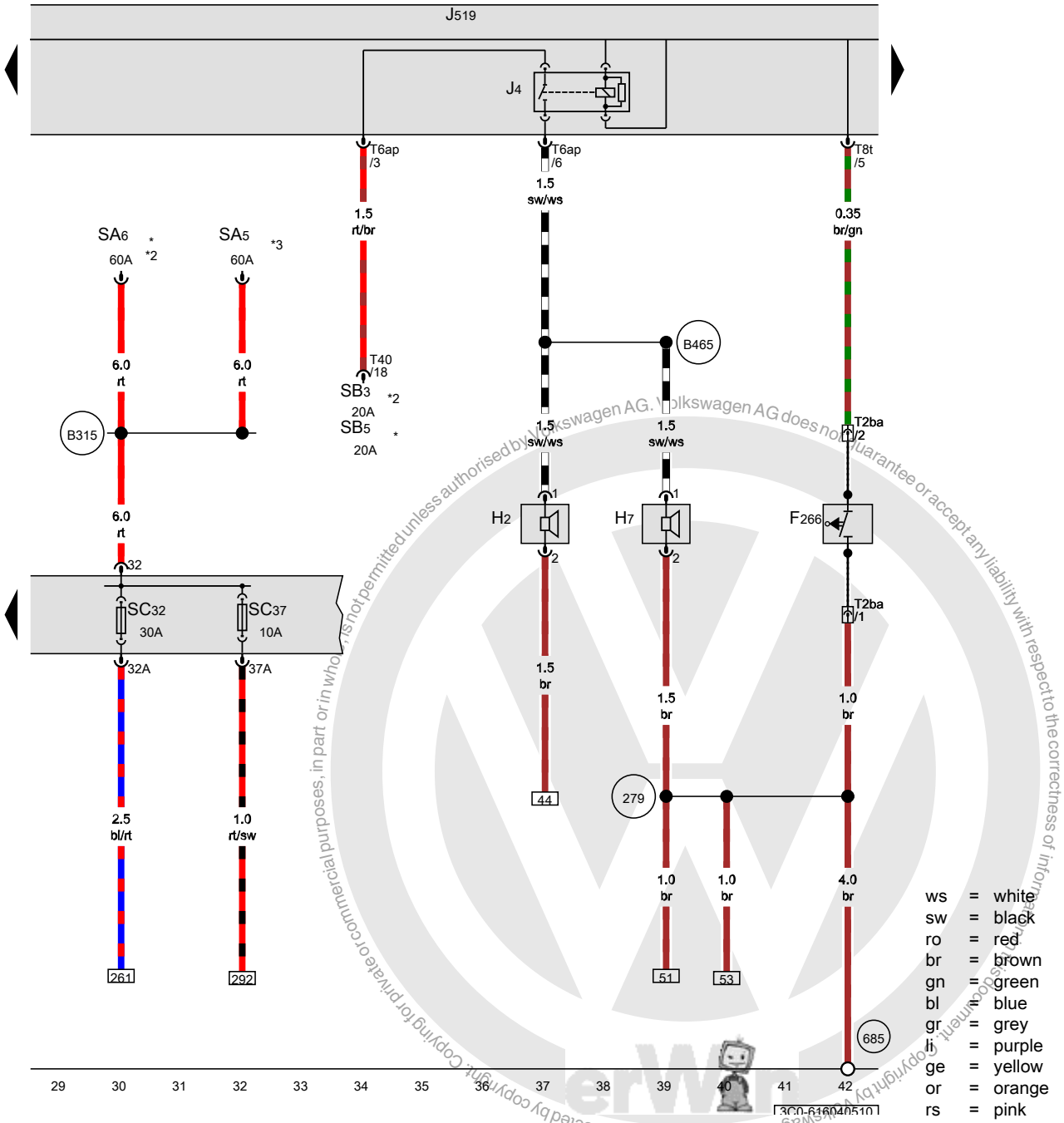


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Terminal 15 voltage supply relay, Onboard supply control unit, 16-pin connector

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SF1	Fuse 1 in fuse holder F
SC3	Fuse 3 on fuse holder C
SA4	Fuse 4 in fuse holder A
SC4	Fuse 4 on fuse holder C
SA5	Fuse 5 in fuse holder A
SC5	Fuse 5 on fuse holder C
SC7	Fuse 7 on fuse holder C
SC13	Fuse 13 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC16	Fuse 16 on fuse holder C
SC39	Fuse 39 on fuse holder C
T2cq	2-pin connector
T10s	10-pin connector
T16d	16-pin connector
B277	Positive connection 1 (15a) in main wiring harness
B289	Positive connection 13 (15a) in main wiring harness
B291	Positive connection 15 (15a) in main wiring harness
B327	Positive connection 13 (30a) in main wiring harness
B330	Positive connection 16 (30a) in main wiring harness
B331	Positive connection 17 (30a) in main wiring harness
B557	Positive connection 21 (30a) in main wiring harness
*	Only models with battery in luggage compartment
*2	Fuses in E-box, High
*3	Fuses in E-box, Low
*4	Flat conductor

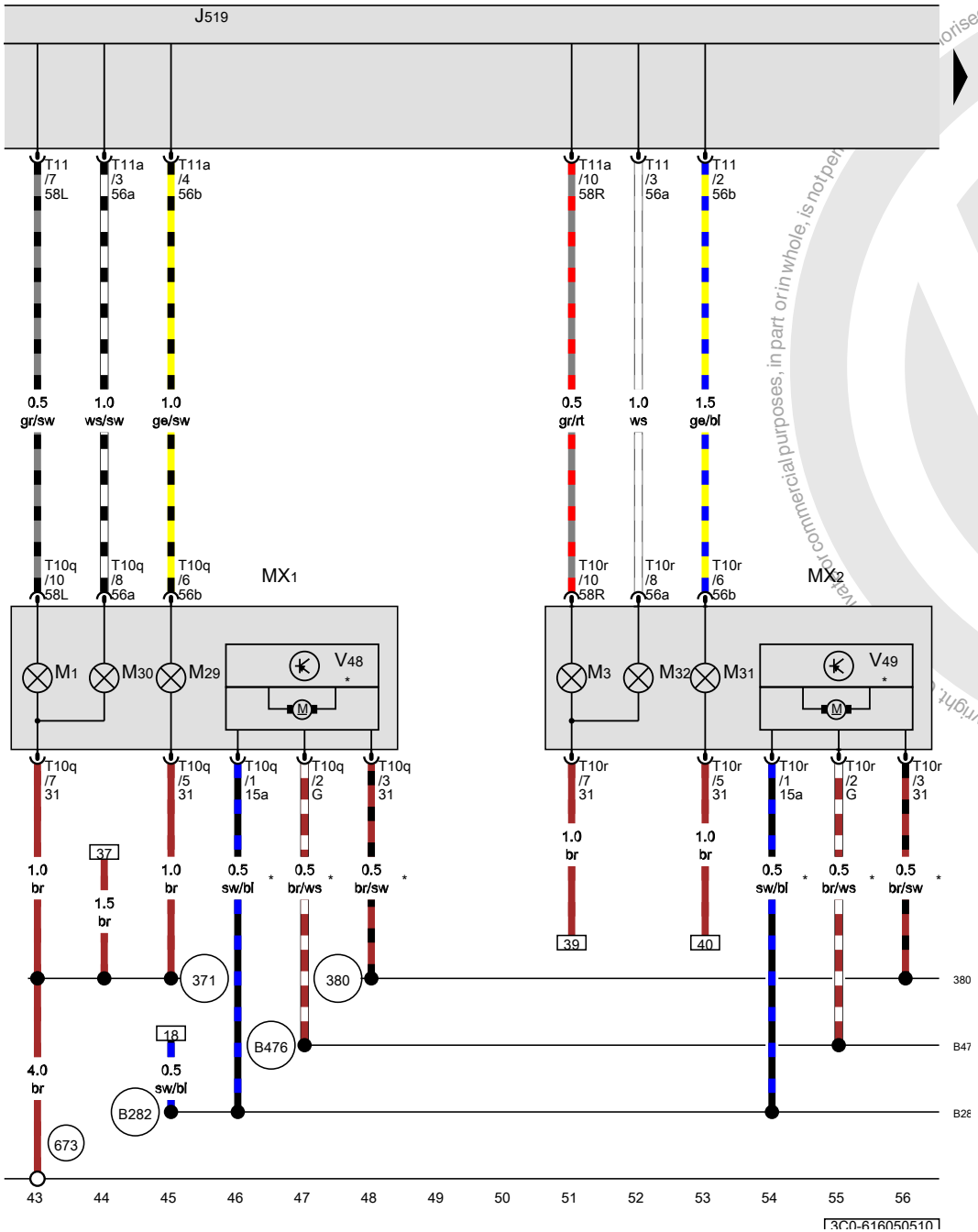
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Bonnet contact switch, Treble horn, Bass horn, Dual tone horn relay, Onboard supply control unit

F266	Bonnet contact switch
H2	Treble horn
H7	Bass horn
J4	Dual tone horn relay
J519	Onboard supply control unit
SB3	Fuse 3 on fuse holder B
SA5	Fuse 5 in fuse holder A
SB5	Fuse 5 on fuse holder B
SA6	Fuse 6 in fuse holder A
SC32	Fuse 32 on fuse holder C
SC37	Fuse 37 on fuse holder C
T2ba	2-pin connector, behind right headlight
T6ap	6-pin connector
T8t	8-pin connector
T40	40-pin connector
279	Earth connection 5, in interior wiring harness
685	Earth point 1 at front of right longitudinal member
B315	Positive connection 1 (30a) in main wiring harness
B465	Connection 1, in main wiring harness
*	Fuses in E-box, High
*2	Fuses in E-box, Low
*3	Only models with battery in luggage compartment

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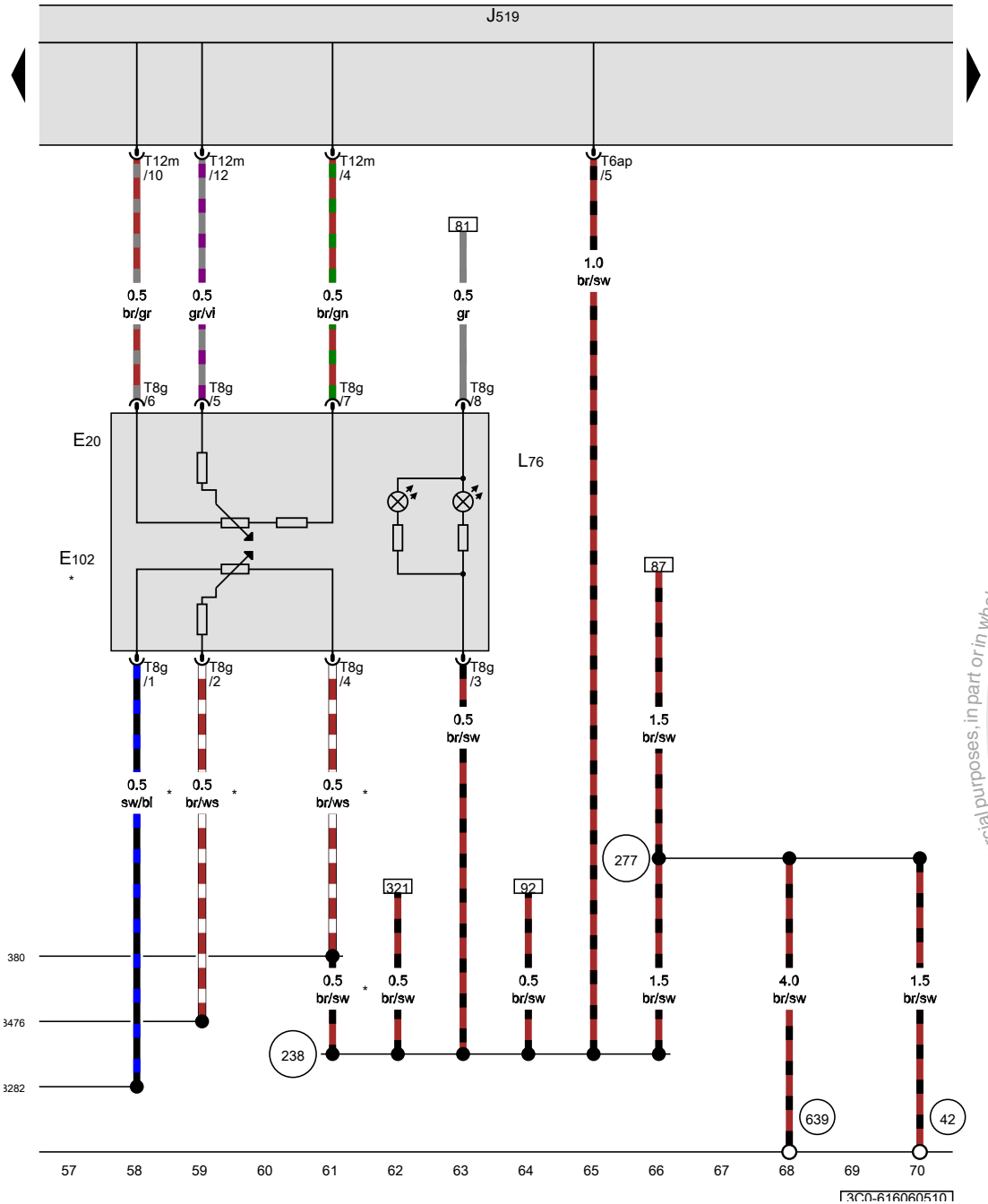


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sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Onboard supply control unit, Front left headlight, Front right headlight

J519	Onboard supply control unit
M1	Left side light bulb
MX1	Front left headlight
MX2	Front right headlight
M3	Right side light bulb
M29	Left headlight dipped beam bulb
M30	Left headlight main beam bulb
M31	Right headlight dipped beam bulb
M32	Right headlight main beam bulb
T10q	10-pin connector
T10r	10-pin connector
T11	11-pin connector
T11a	11-pin connector
V48	Left headlight range control motor
V49	Right headlight range control motor
371	Earth connection 6, in main wiring harness
380	Earth connection 15, in main wiring harness
673	Earth point 3, on front of left longitudinal member
B282	Positive connection 6 (15a) in main wiring harness
B476	Connection 12, in main wiring harness
*	Not for American markets

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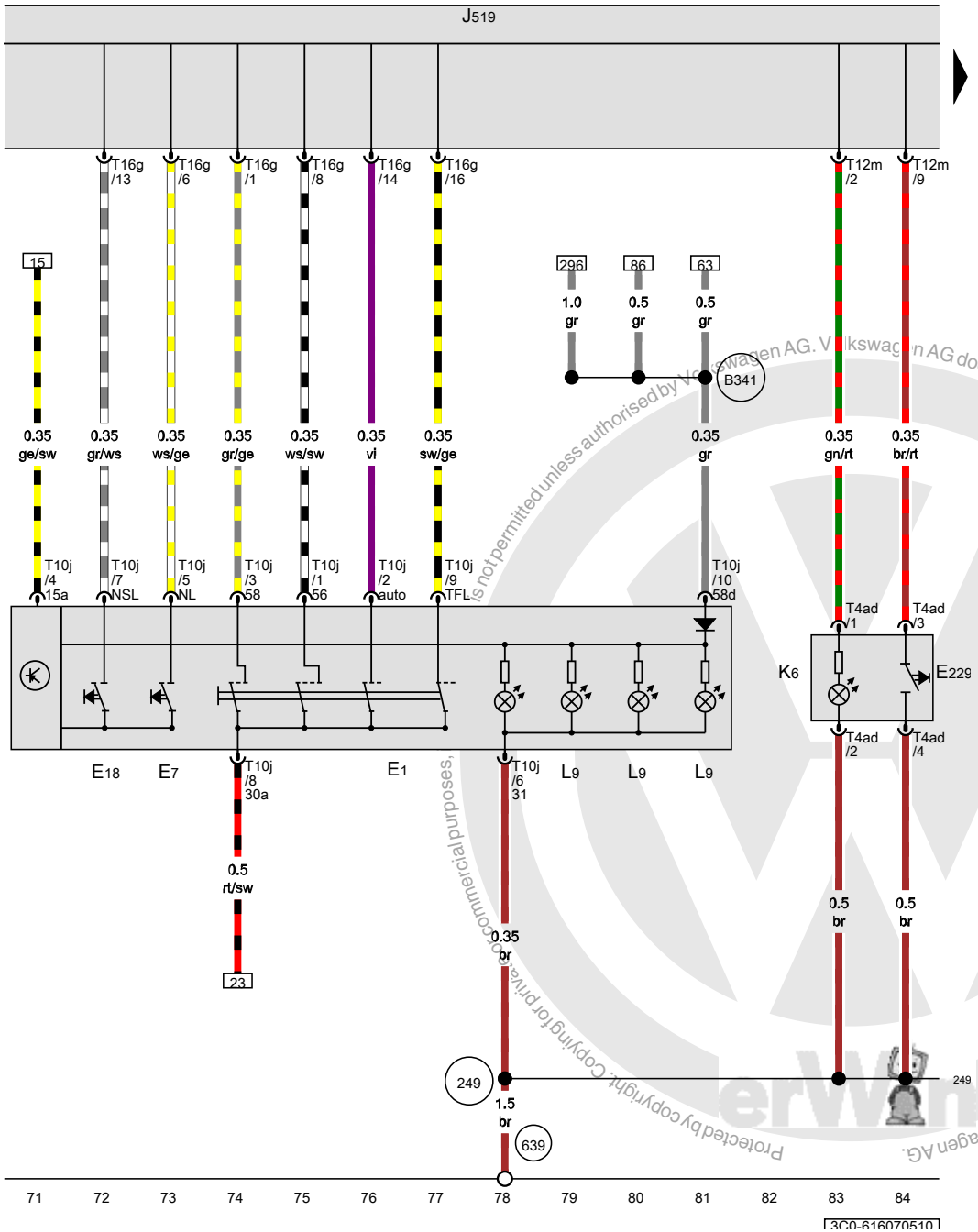


Switch and instrument illumination regulator, Headlight range control regulator, Onboard supply control unit

E20	Switch and instrument illumination regulator
E102	Headlight range control regulator
J519	Onboard supply control unit
L76	Button illumination bulb
T6ap	6-pin connector
T8g	8-pin connector
T12m	12-pin connector
42	Earth point, next to steering column
238	Earth connection 1, in interior wiring harness
277	Earth connection 3, in interior wiring harness
380	Earth connection 15, in main wiring harness
639	Earth point, left A-pillar
B282	Positive connection 6 (15a) in main wiring harness
B476	Connection 12, in main wiring harness
*	Not for American markets

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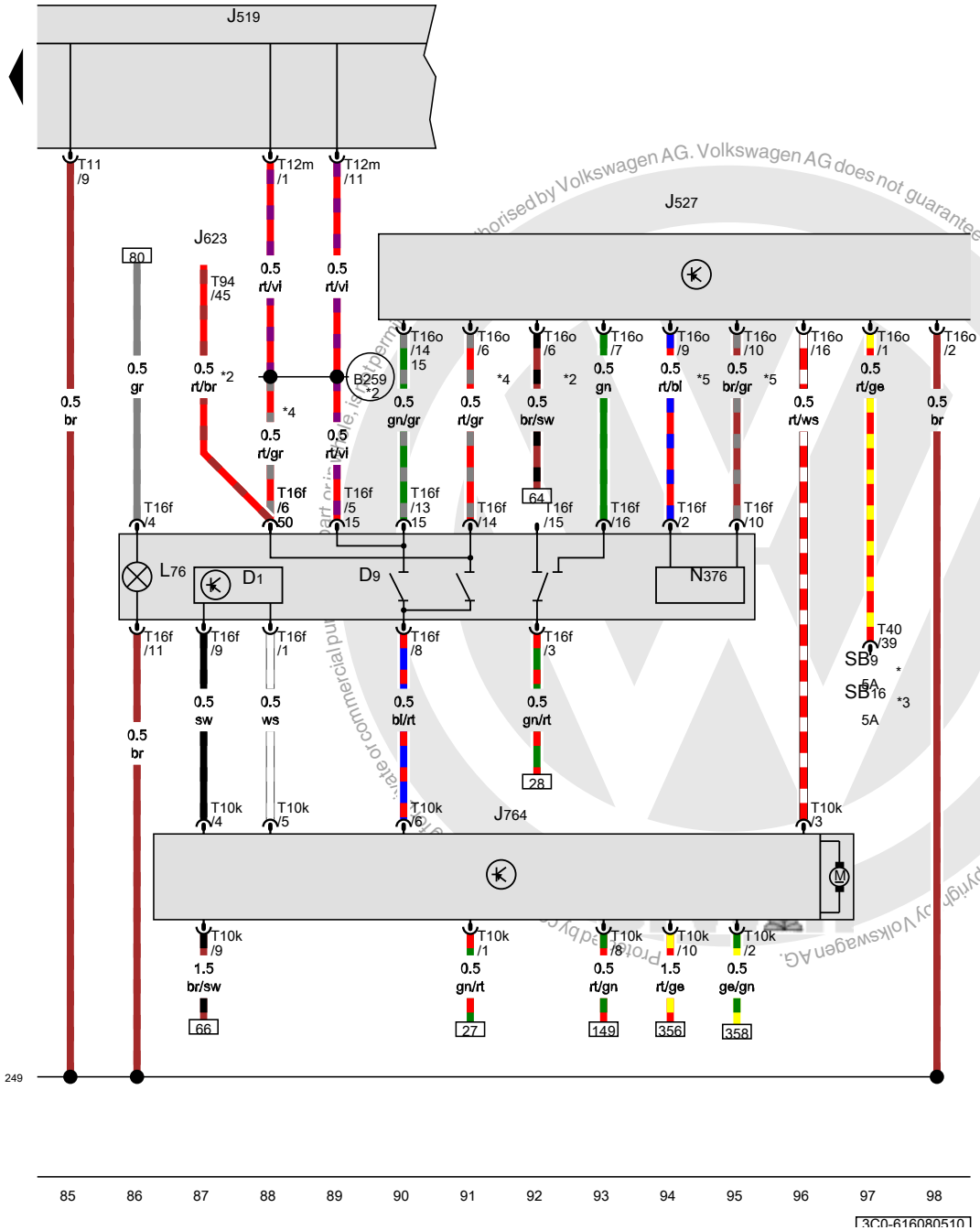


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Light switch, Hazard warning lights button, Onboard supply control unit

E1	Light switch
E7	Fog light switch
E18	Rear fog light switch
E229	Hazard warning lights button
J519	Onboard supply control unit
K6	Indicator lamp for hazard warning light
L9	Light switch illumination bulb
T4ad	4-pin connector
T10j	10-pin connector
T12m	12-pin connector
T16g	16-pin connector
249	Earth connection 2, in interior wiring harness
639	Earth point, left A-pillar
B341	Connection 2 (58d), in main wiring harness

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Electronic ignition lock, Onboard supply control unit, Steering column electronics control unit, Electronic steering column lock control unit

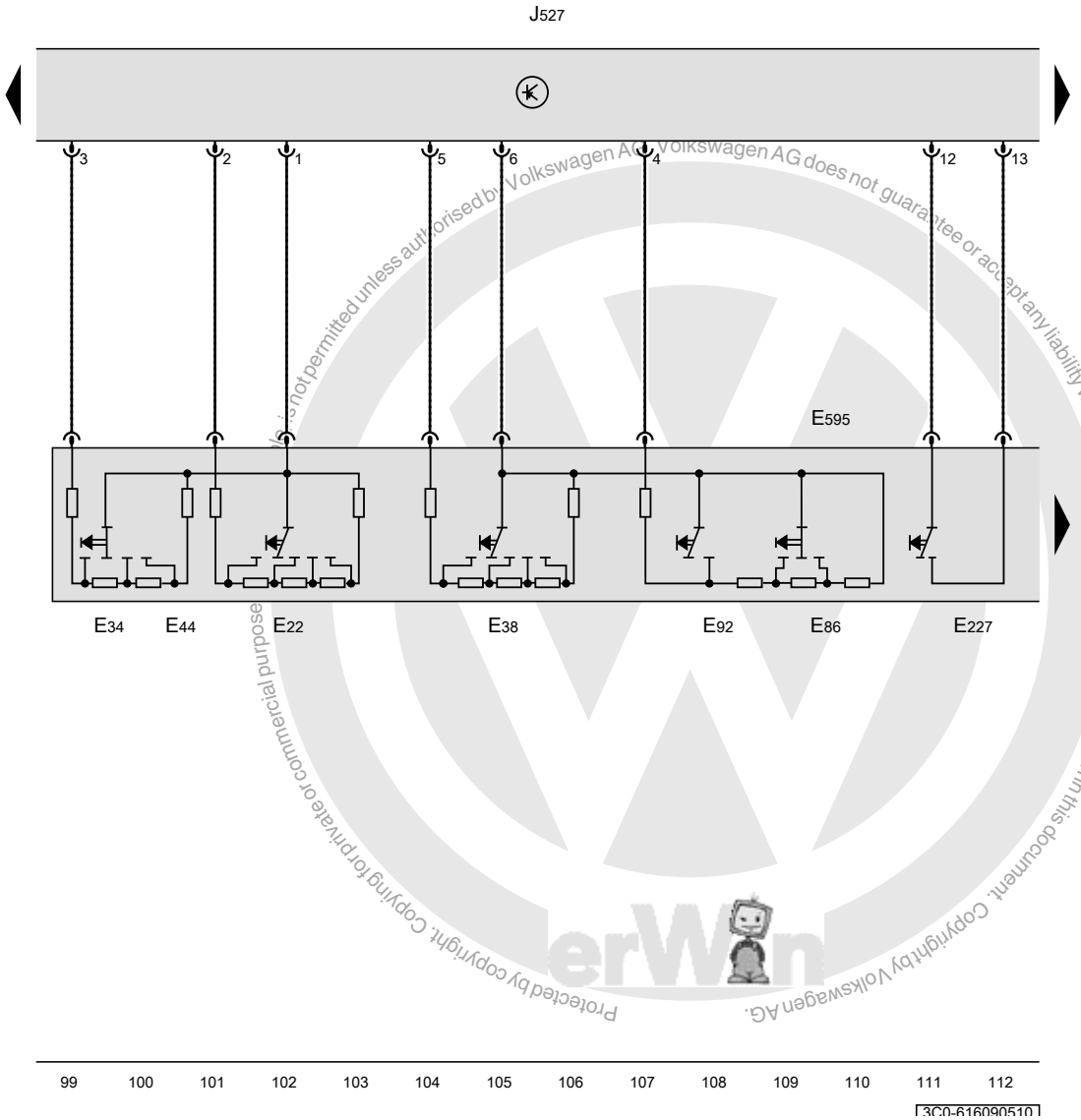
D1	Immobilizer reading unit
D9	Electronic ignition lock
J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
J764	Electronic steering column lock control unit
L76	Button illumination bulb
N376	Ignition key withdrawal lock solenoid
SB9	Fuse 9 on fuse holder B
SB16	Fuse 16 on fuse holder B
T10k	10-pin connector
T11	11-pin connector
T12m	12-pin connector
T16f	16-pin connector
T16o	16-pin connector
T40	40-pin connector
T94	94-pin connector
249	Earth connection 2, in interior wiring harness
B259	Connection (start/stop signal), in interior wiring harness
*	Fuses in E-box, Low
*2	Only models with stop/start system
*3	Fuses in E-box, High
*4	Only models with no start/stop system
*5	Only models with Tiptronic

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sw	=	black
ro	=	red
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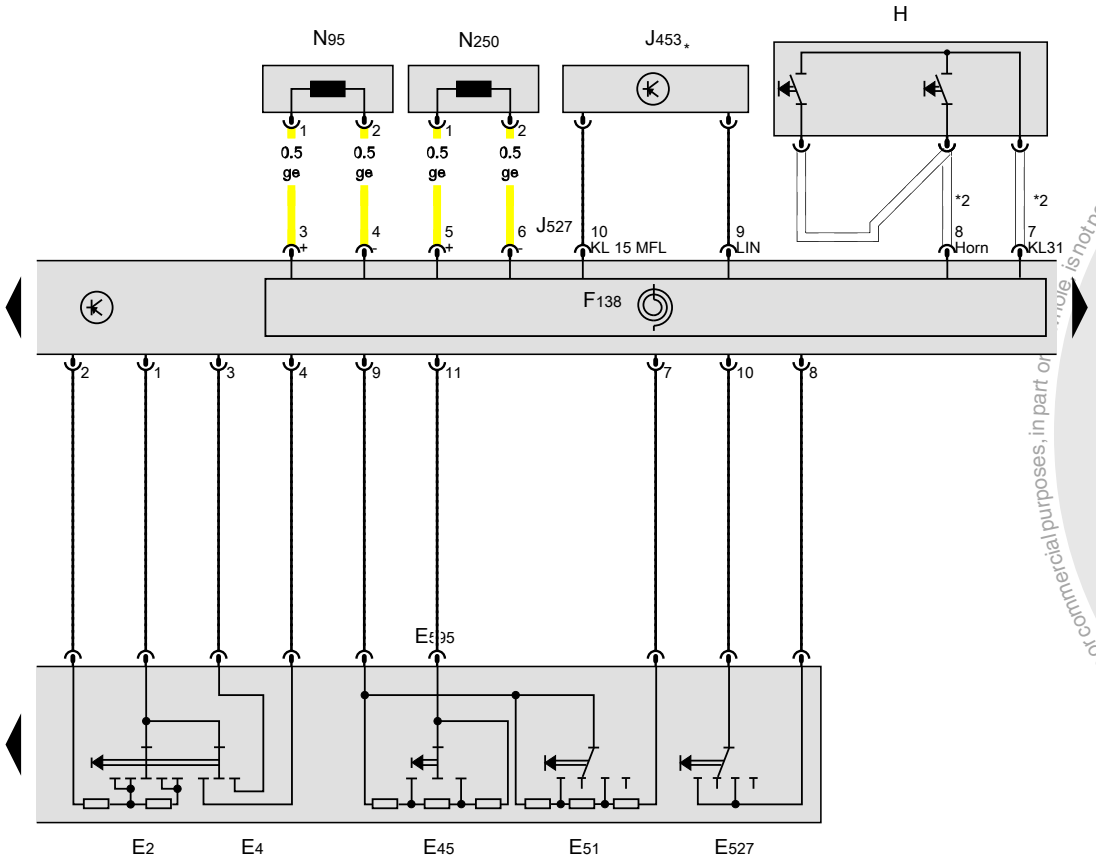
Steering column combination switch, Steering column electronics control unit

E22	Intermittent wiper switch
E34	Rear wiper switch
E38	Intermittent wiper regulator
E44	Washer pump switch (automatic wash/wipe and headlight washer system)
E86	Multifunction display call-up button
E92	Reset button
E227	Cruise control system (CCS) SET button
E595	Steering column combination switch
J527	Steering column electronics control unit



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Steering column combination switch, Airbag coil connector and return ring with slip ring, Horn plate, Multifunction steering wheel control unit, Steering column electronics control unit, Driver side airbag igniter

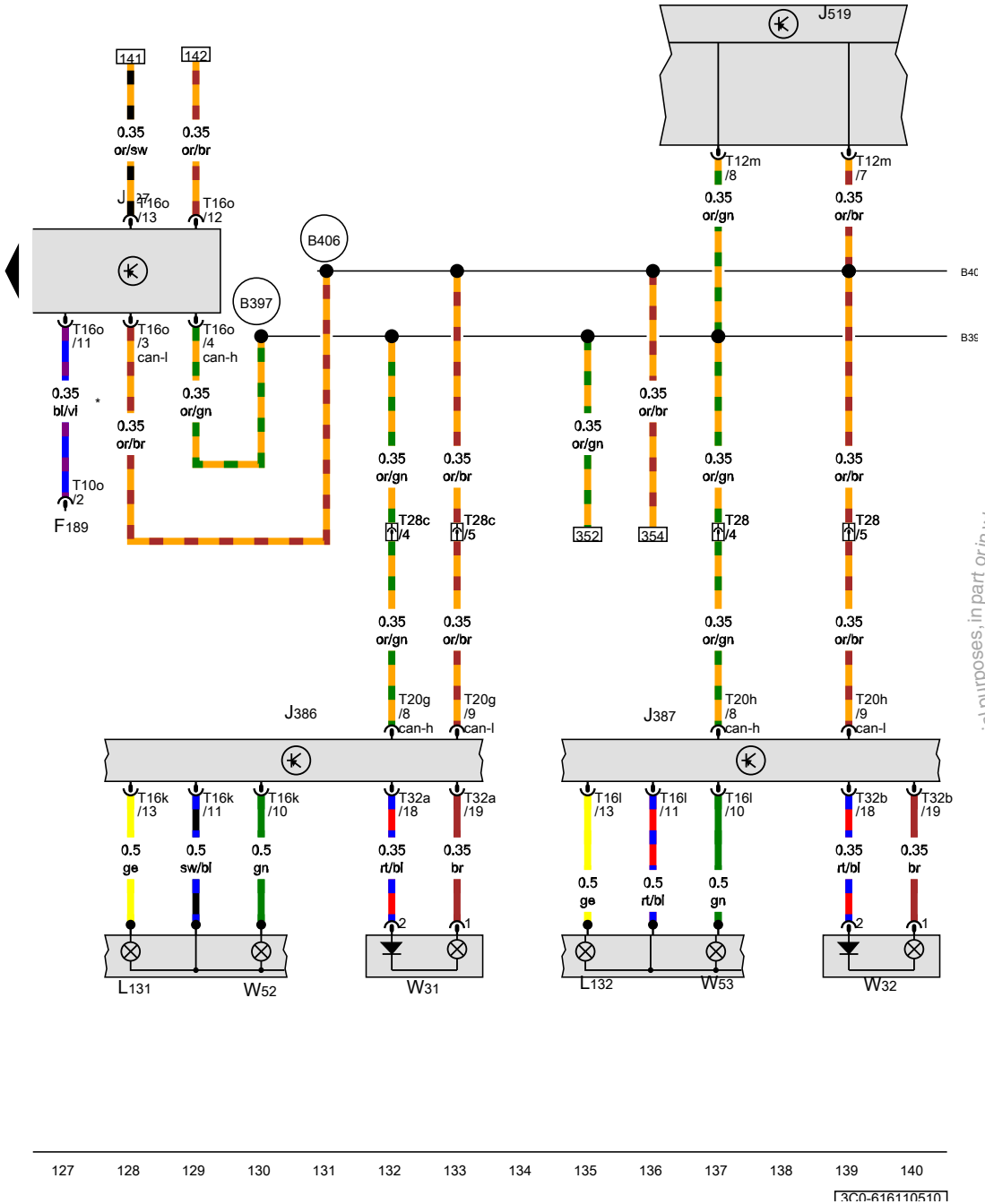
E2	Turn signal switch
E4	Headlight dipper and flasher switch
E45	Cruise control system switch
E51	Cruise control system master switch
E527	Button to temporarily switch cruise control system (CCS) off
E595	Steering column combination switch
F138	Airbag coil connector and return ring with slip ring
H	Horn plate
J453	Multifunction steering wheel control unit
J527	Steering column electronics control unit
N95	Driver side airbag igniter
N250	Driver side airbag igniter 2
*	Only models with multifunction steering wheel
*2	Flat conductor

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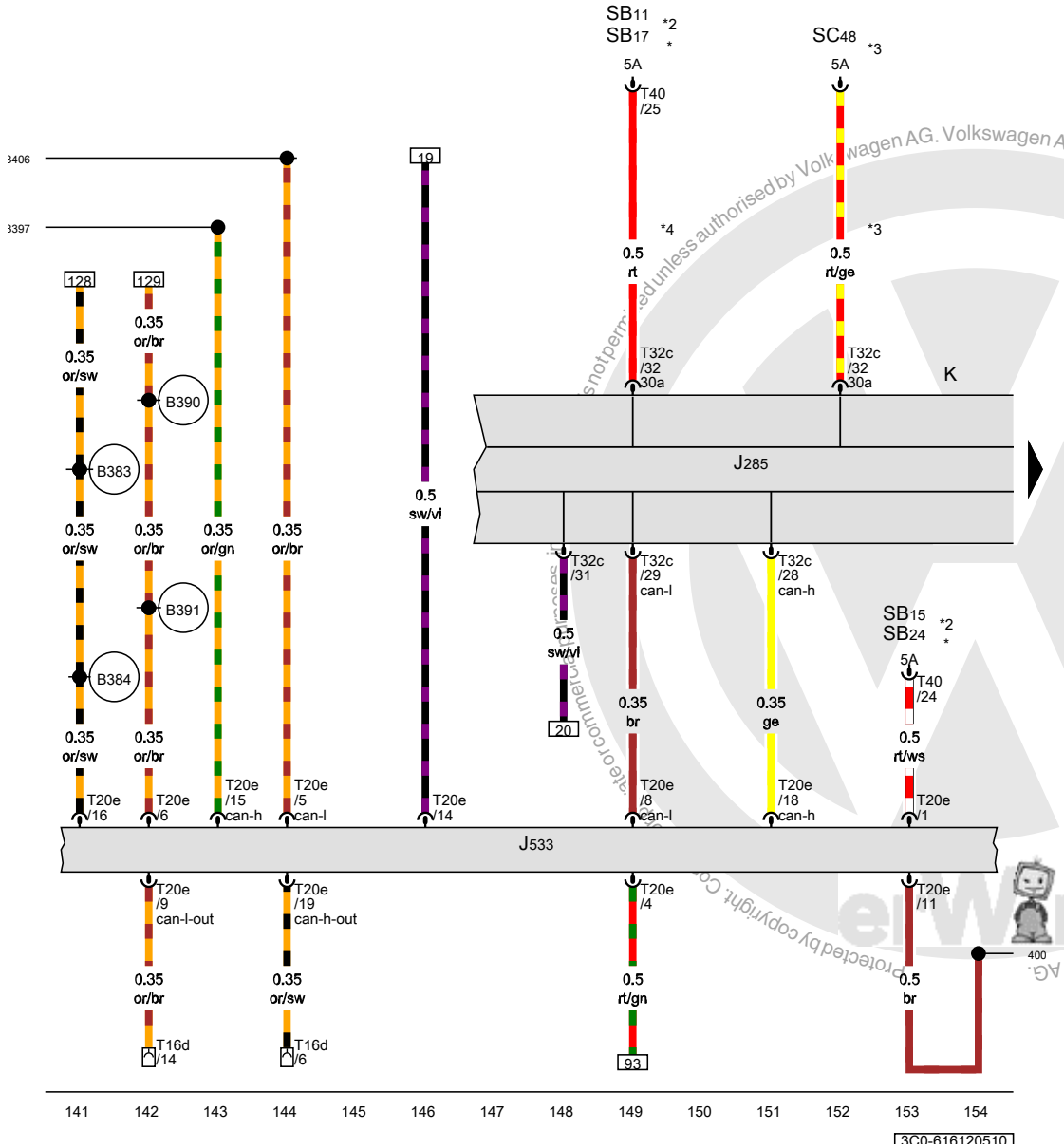


Driver door control unit, Front passenger door control unit, Onboard supply control unit, Steering column electronics control unit, Driver side turn signal repeater bulb, Front passenger side turn signal repeater bulb, Front left entry light, Front right entry light, Driver side entry light in exterior mirror, Front passenger side entry light in exterior mirror

F189	Tiptronic switch
J386	Driver door control unit
J387	Front passenger door control unit
J519	Onboard supply control unit
J527	Steering column electronics control unit
L131	Driver side turn signal repeater bulb
L132	Front passenger side turn signal repeater bulb
T10o	10-pin connector
T12m	12-pin connector
T16k	16-pin connector
T16l	16-pin connector
T16o	16-pin connector
T20g	20-pin connector
T20h	20-pin connector
T28	28-pin connector, in right A-pillar coupling station
T28c	28-pin connector, in left A-pillar coupling station
T32a	32-pin connector
T32b	32-pin connector
W31	Front left entry light
W32	Front right entry light
W52	Driver side entry light in exterior mirror
W53	Front passenger side entry light in exterior mirror
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Only models with Tiptronic

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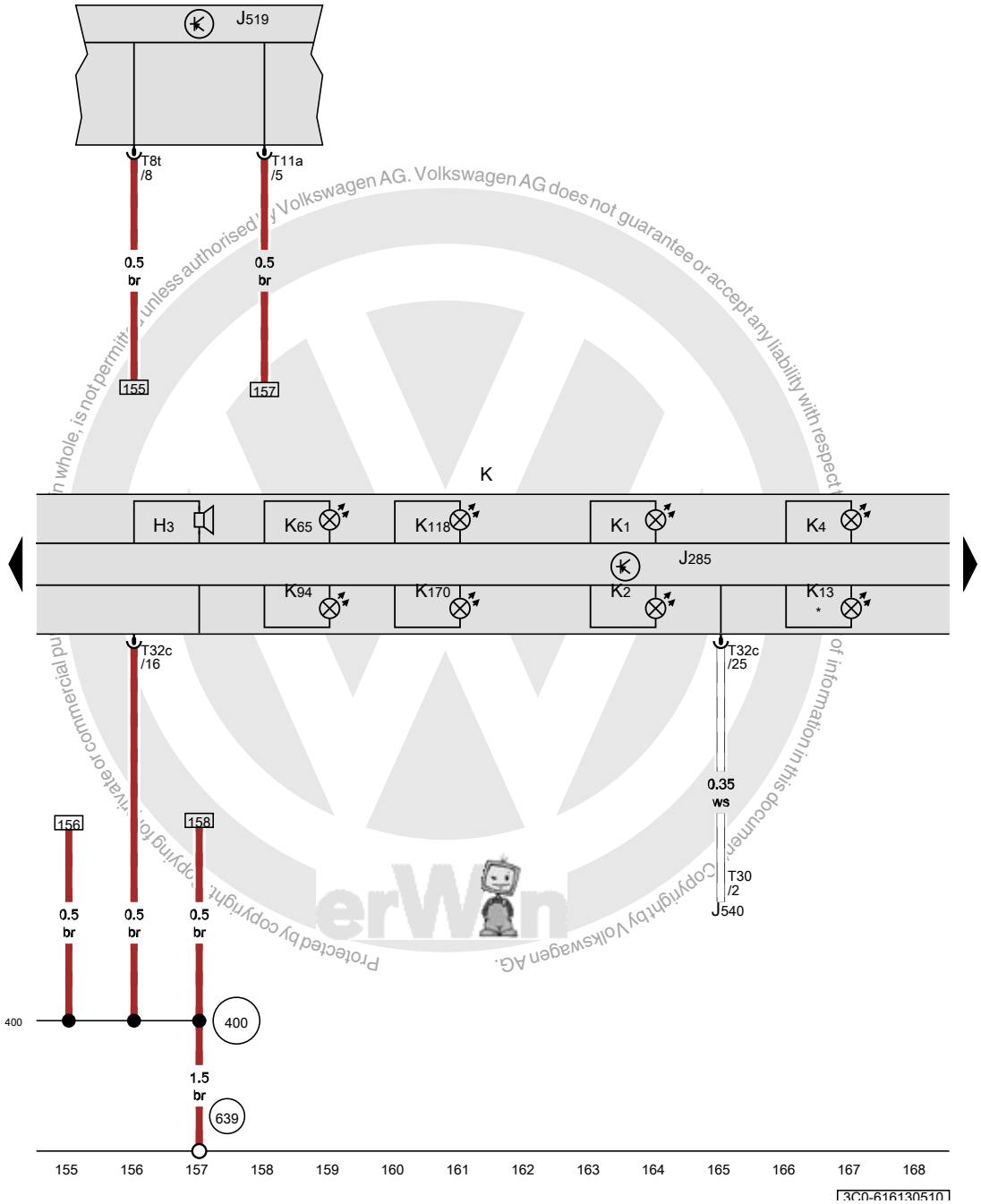


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or = orange
rs = pink

Control unit in dash panel insert, Data bus diagnostic interface, Dash panel insert

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K	Dash panel insert
SB11	Fuse 11 on fuse holder B
SB15	Fuse 15 on fuse holder B
SB17	Fuse 17 on fuse holder B
SB24	Fuse 24 on fuse holder B
SC48	Fuse 48 on fuse holder C
T16d	16-pin connector, on diagnostic connection
T20e	20-pin connector
T32c	32-pin connector
T40	40-pin connector
400	Earth connection 35, in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
*	Fuses in E-box, High
*2	Fuses in E-box, Low
*3	Only models with stop/start system
*4	Only models with no start/stop system

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Control unit in dash panel insert, Onboard supply control unit, Dash panel insert

H3	Buzzer and gong
J285	Control unit in dash panel insert
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
K	Dash panel insert
K1	Main beam warning lamp
K2	Alternator warning lamp
K4	Side light warning lamp
K13	Rear fog light warning lamp
K65	Left turn signal warning lamp
K94	Right turn signal warning lamp
K118	Brake system warning lamp
K170	Bulb failure warning lamp
T8t	8-pin connector
T11a	11-pin connector
T30	30-pin connector
T32c	32-pin connector
(400)	Earth connection 35, in main wiring harness
(639)	Earth point, left A-pillar
*	According to equipment

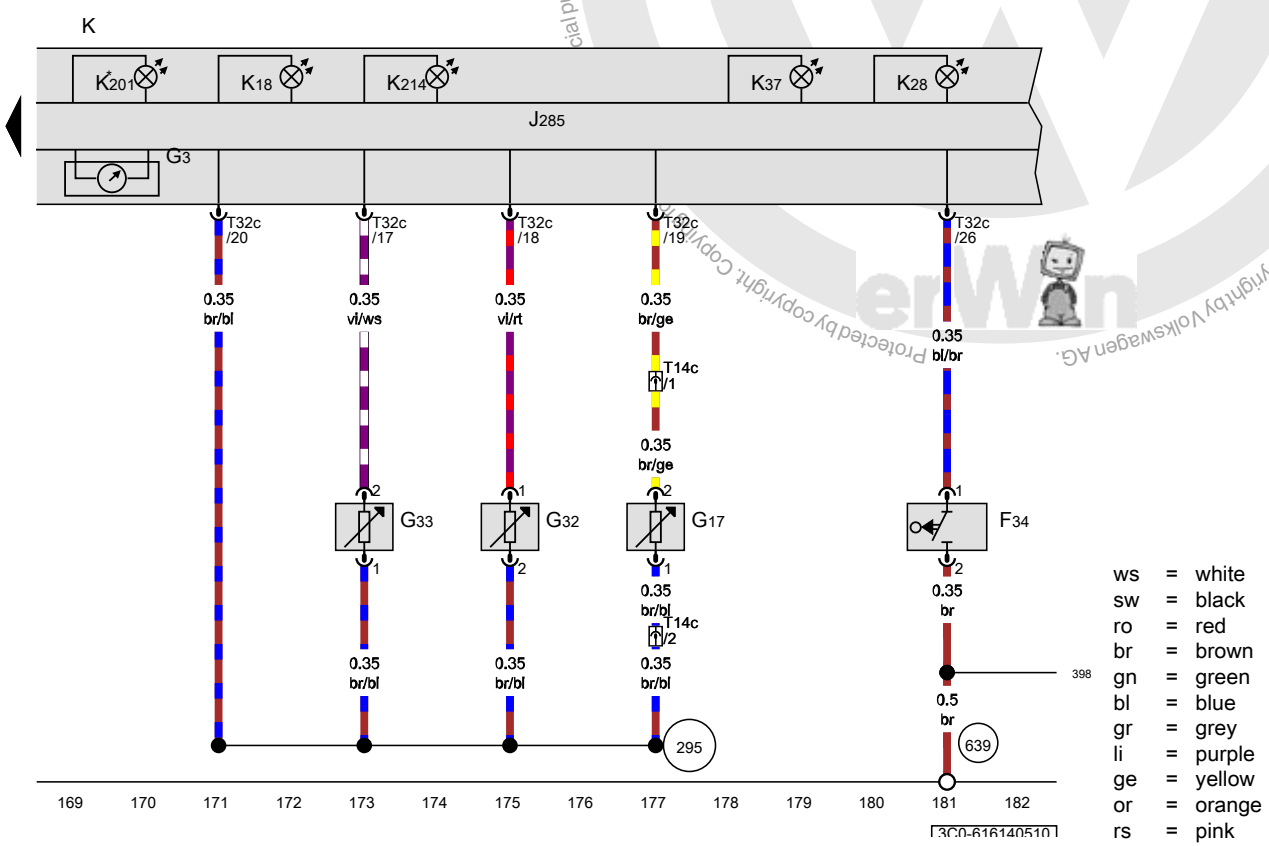
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sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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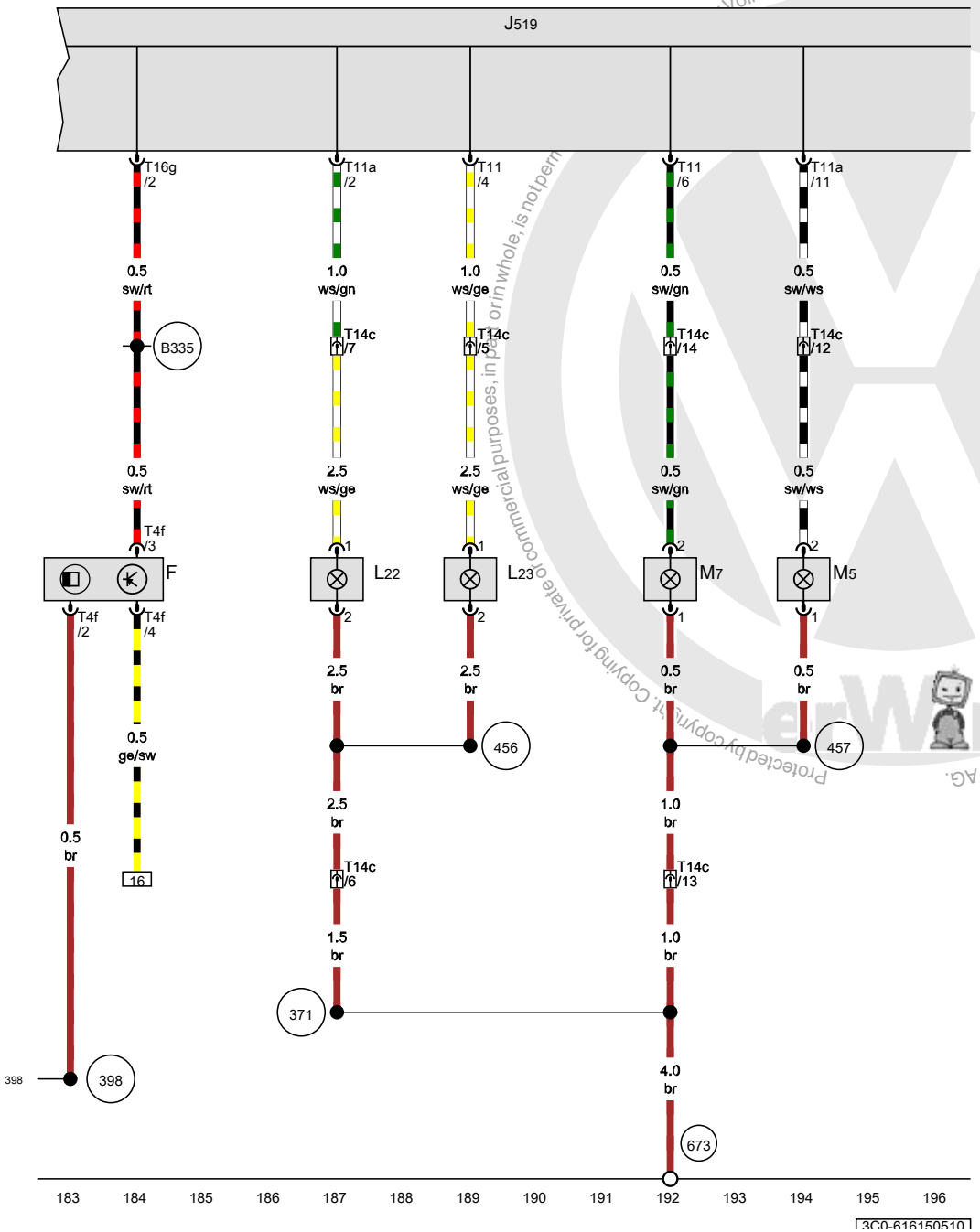
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Brake fluid level warning contact, Ambient temperature sensor, Coolant shortage indicator sender, Windscreen washer fluid level sender, Control unit in dash panel insert, Dash panel insert

F34	Brake fluid level warning contact
G3	Coolant temperature gauge
G17	Ambient temperature sensor
G32	Coolant shortage indicator sender
G33	Windscreen washer fluid level sender
J285	Control unit in dash panel insert
K	Dash panel insert
K18	Trailer operation warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K37	Washer fluid level warning lamp
K201	Fuel tank flap lock warning lamp
K214	Electric parking brake and handbrake fault warning lamp
T14c	14-pin connector, near front bumper
T32c	32-pin connector
295	Earth connection 10, in interior wiring harness
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
*	Only for American markets



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

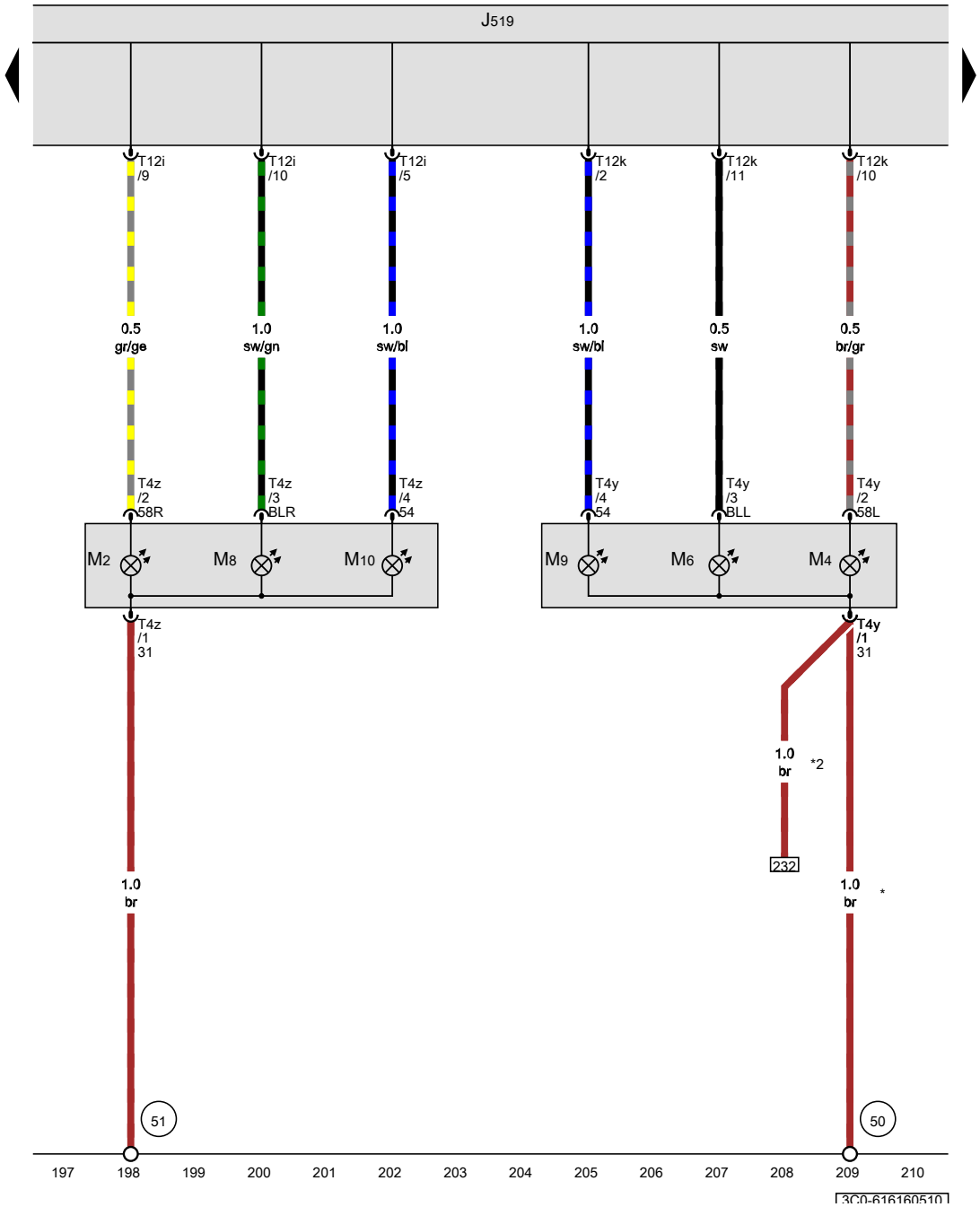


Brake light switch, Left fog light bulb, Right fog light bulb, Front left turn signal bulb, Front right turn signal bulb

F	Brake light switch
J519	Onboard supply control unit
L22	Left fog light bulb
L23	Right fog light bulb
M5	Front left turn signal bulb
M7	Front right turn signal bulb
T4f	4-pin connector
T11	11-pin connector
T11a	11-pin connector
T14c	14-pin connector, near front bumper
T16g	16-pin connector
371	Earth connection 6, in main wiring harness
398	Earth connection 33, in main wiring harness
456	Earth connection 1, front bumper wiring harness
457	Earth connection 2, front bumper wiring harness
673	Earth point 3, on front of left longitudinal member
B335	Connection 1 (54), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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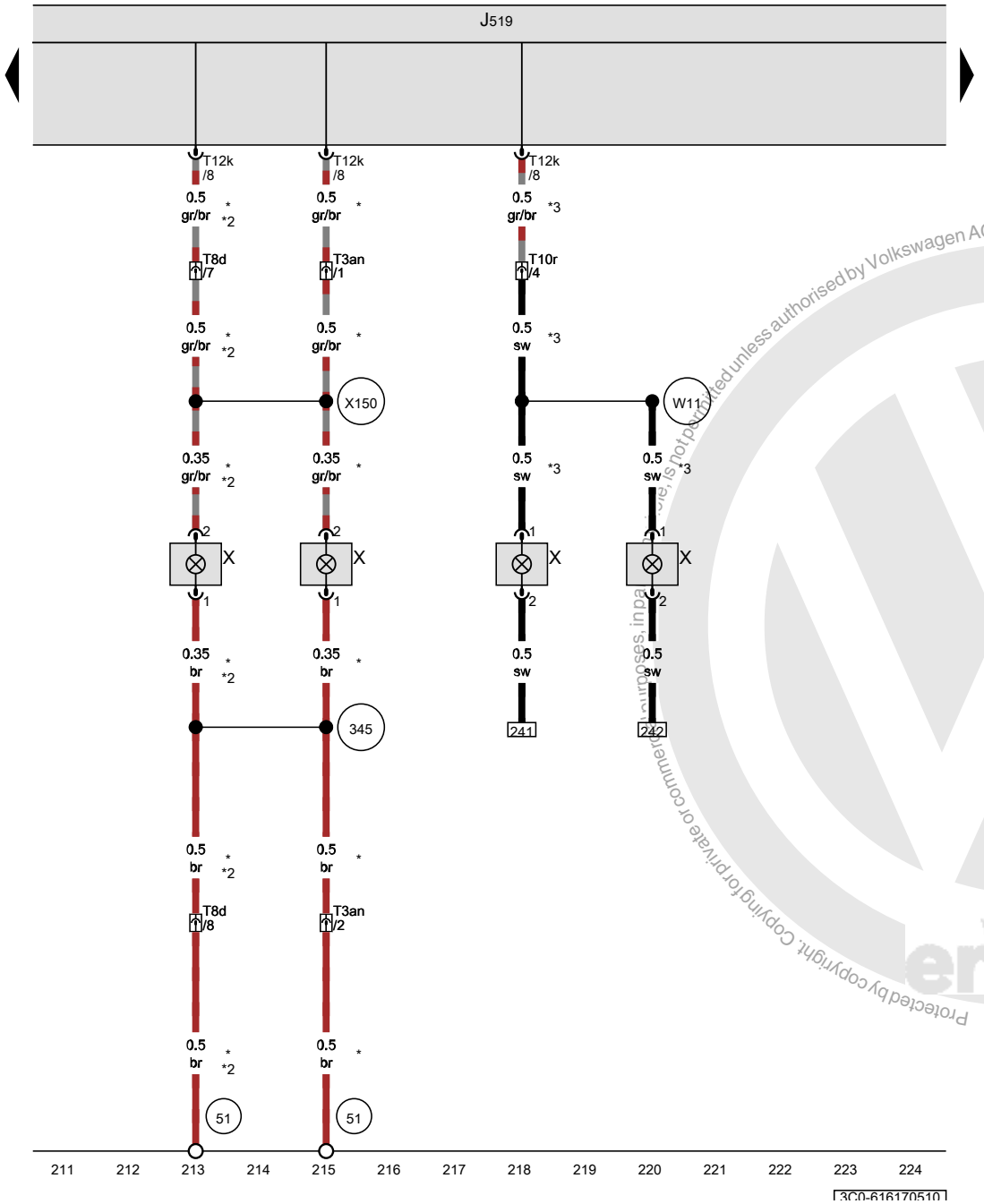


Right tail light bulb, Left tail light bulb, Rear left turn signal bulb, Rear right turn signal bulb, Left brake light bulb, Right brake light bulb

J519	Onboard supply control unit
M2	Right tail light bulb
M4	Left tail light bulb
M6	Rear left turn signal bulb
M8	Rear right turn signal bulb
M9	Left brake light bulb
M10	Right brake light bulb
T4y	4-pin connector
T4z	4-pin connector
T12i	12-pin connector
T12k	12-pin connector
50	Earth point, on left in luggage compartment
51	Earth point, on right in luggage compartment
*	Variant
*2	Saloon

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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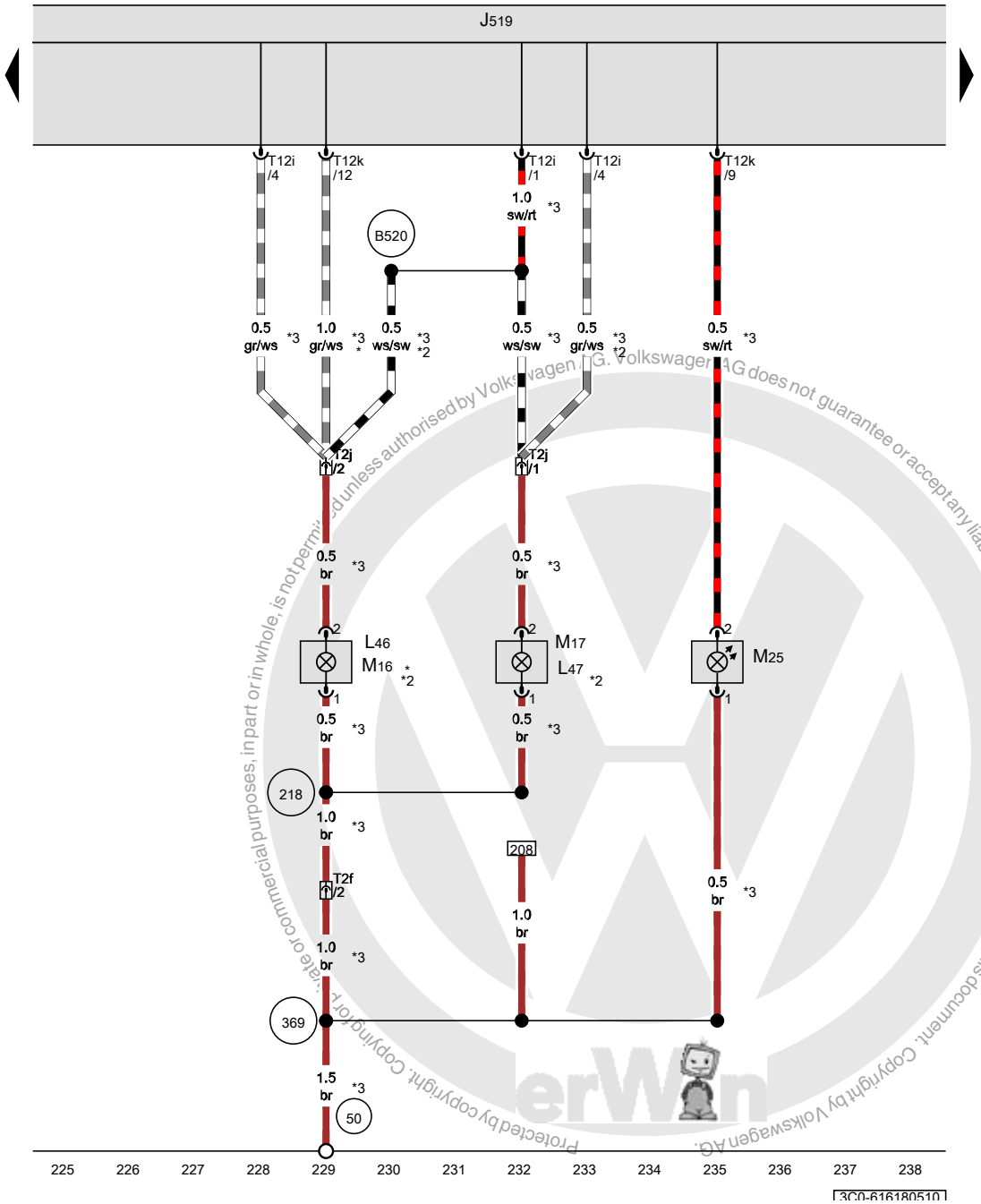


Number plate light

J519	Onboard supply control unit
T3an	3-pin connector, in rear bumper
T8d	8-pin connector, in rear bumper
T10r	10-pin connector, Coupling point for rear lid
T12k	12-pin connector
X	Number plate light
51	Earth point, on right in luggage compartment
345	Earth connection, in bumper wiring harness
W11	Connection (58), in rear lid wiring harness
X150	Connection (58), rear bumper wiring harness
*	Saloon
*2	Only models with parking aid (PDC)
*3	Variant

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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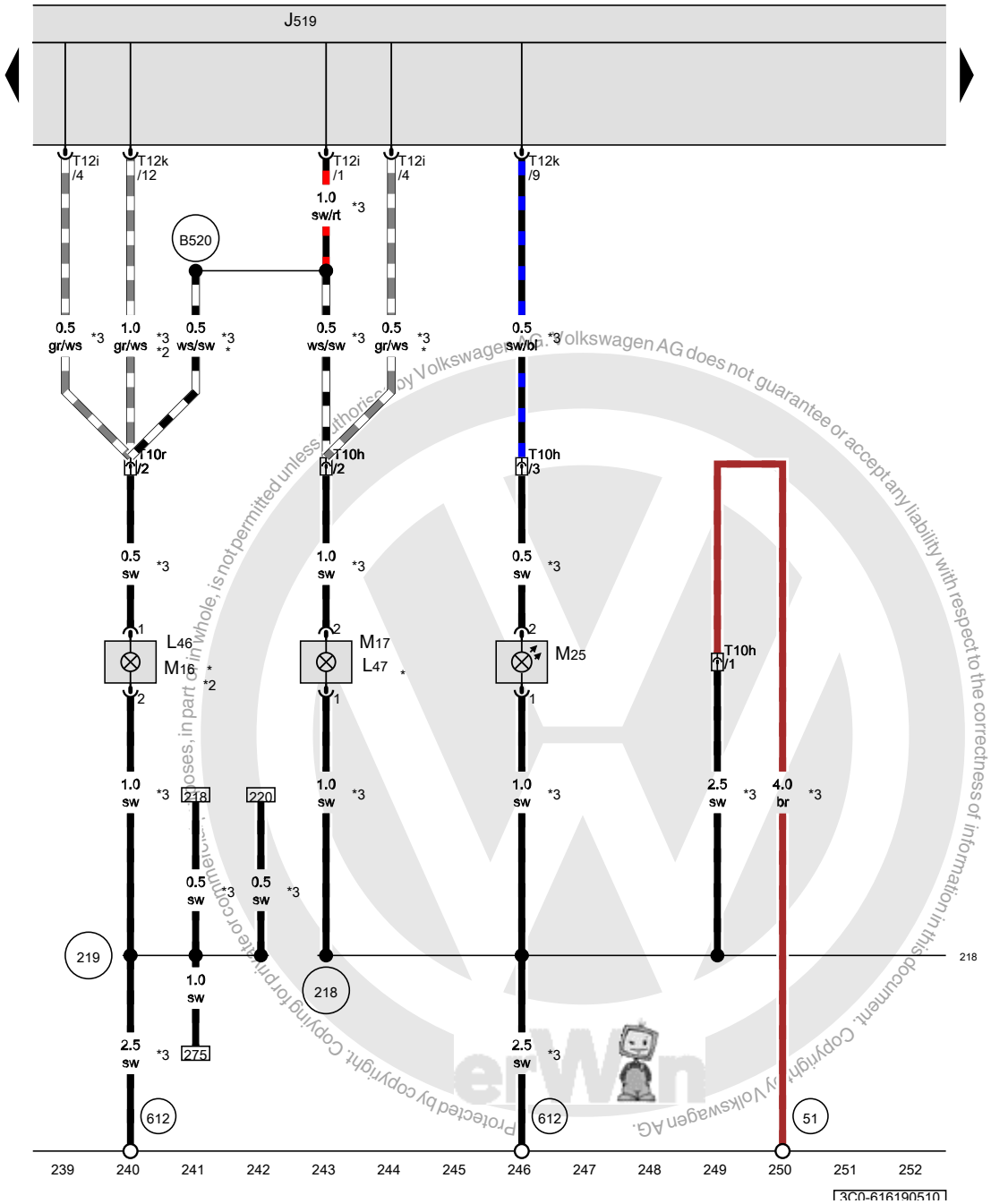


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Rear left fog light bulb, Right reversing light bulb, Additional brake light bulb

J519	Onboard supply control unit
L46	Rear left fog light bulb
L47	Rear right fog light bulb
M16	Left reversing light bulb
M17	Right reversing light bulb
M25	Additional brake light bulb
T2f	2-pin connector, Coupling point for rear lid
T2j	2-pin connector, Coupling point for rear lid
T12i	12-pin connector
T12k	12-pin connector
50	Earth point, on left in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
B520	Connection (RL), in main wiring harness
*	Only for American markets
*2	Only models with equipment for Japan
*3	Saloon

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

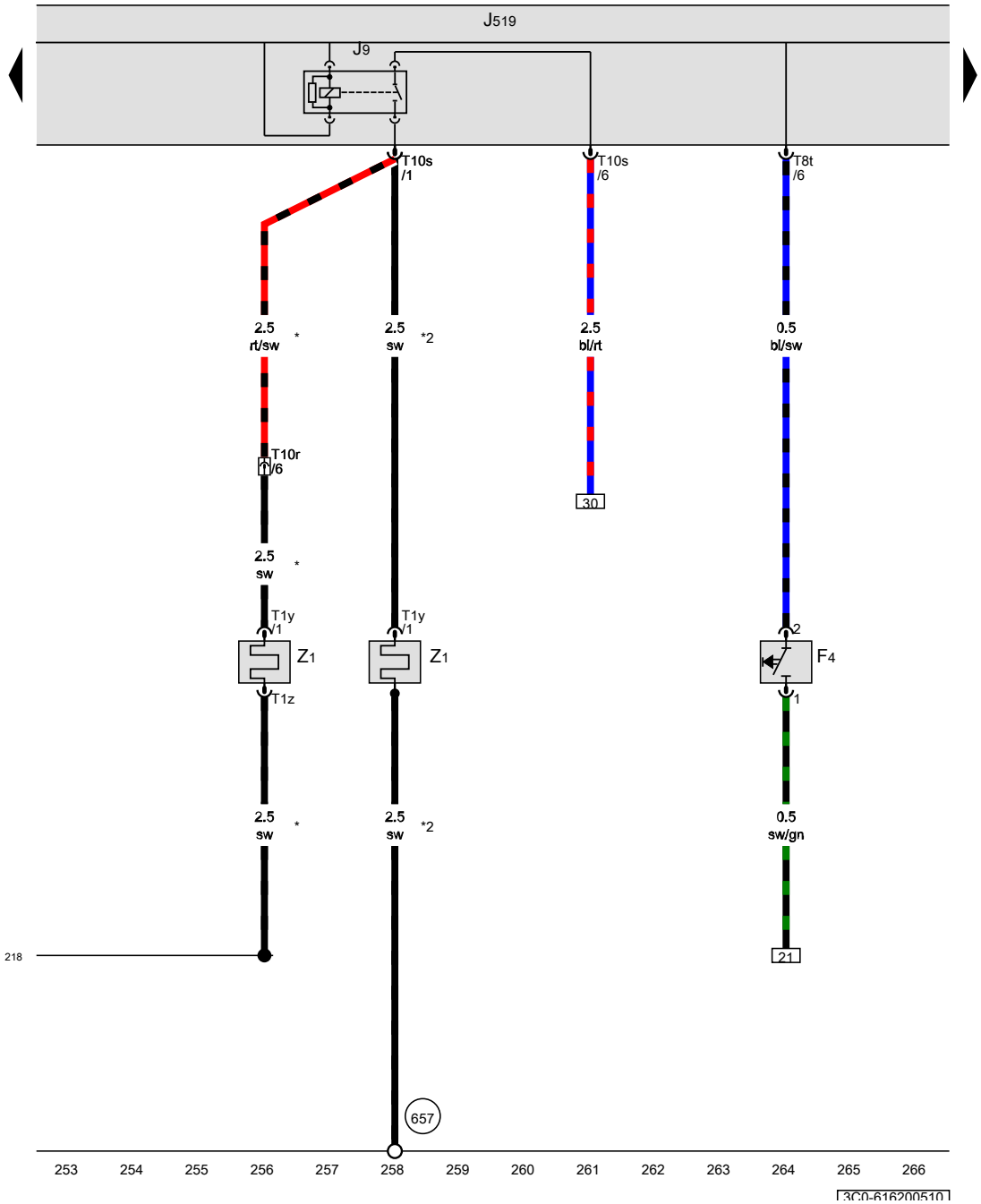


ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Rear left fog light bulb, Right reversing light bulb, Additional brake light bulb

J519	Onboard supply control unit
L46	Rear left fog light bulb
L47	Rear right fog light bulb
M16	Left reversing light bulb
M17	Right reversing light bulb
M25	Additional brake light bulb
T10h	10-pin connector, Coupling point for rear lid
T10r	10-pin connector, Coupling point for rear lid
T12i	12-pin connector
T12k	12-pin connector
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
219	Earth connection 2, in rear lid wiring harness
612	Earth point, centre on rear lid
B520	Connection (RL), in main wiring harness
*	Only models with equipment for Japan
*2	Only for American markets
*3	Variant

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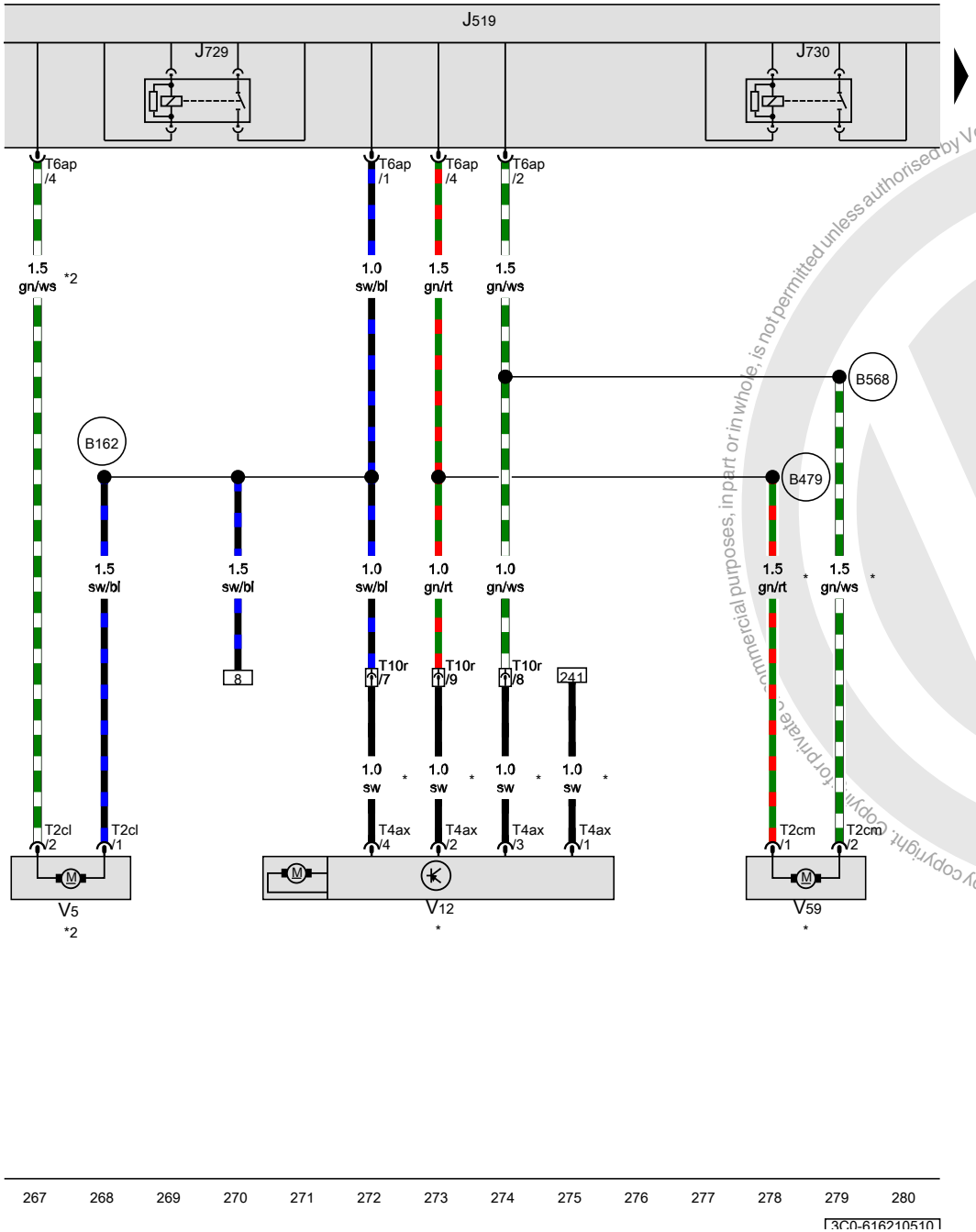


Reversing light switch, Heated rear window relay, Heated rear window

F4	Reversing light switch
J9	Heated rear window relay
J519	Onboard supply control unit
T1y	Single connector
T1z	Single connector
T8t	8-pin connector
T10r	10-pin connector, Coupling point for rear lid
T10s	10-pin connector
Z1	Heated rear window
218	Earth connection 1, in rear lid wiring harness
657	Earth point 1, on left near rear window
*	Variant
*2	Saloon

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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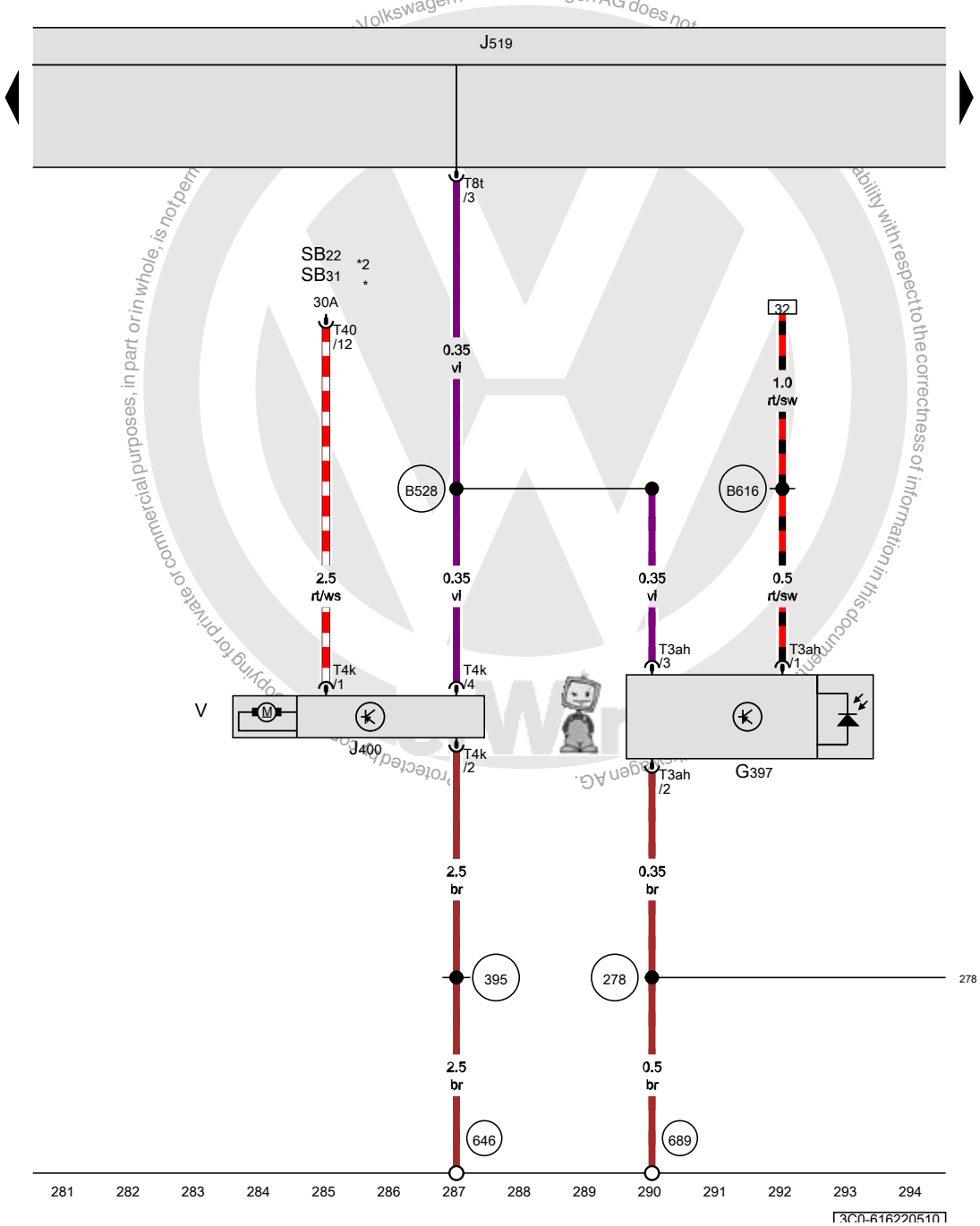


Double washer pump relay 1, Double washer pump relay 2, Washer pump, Rear window wiper motor, Windscreen and rear window washer pump

J519	Onboard supply control unit
J729	Double washer pump relay 1
J730	Double washer pump relay 2
T2cl	2-pin connector
T2cm	2-pin connector
T4ax	4-pin connector
T6ap	6-pin connector
T10r	10-pin connector, Coupling point for rear lid
V5	Washer pump
V12	Rear window wiper motor, black
V59	Windscreen and rear window washer pump
B162	Connection (75a), in interior wiring harness
B479	Connection 15, in main wiring harness
B568	Connection 35, in main wiring harness
*	Variant
*2	Saloon

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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or	=	orange
rs	=	pink

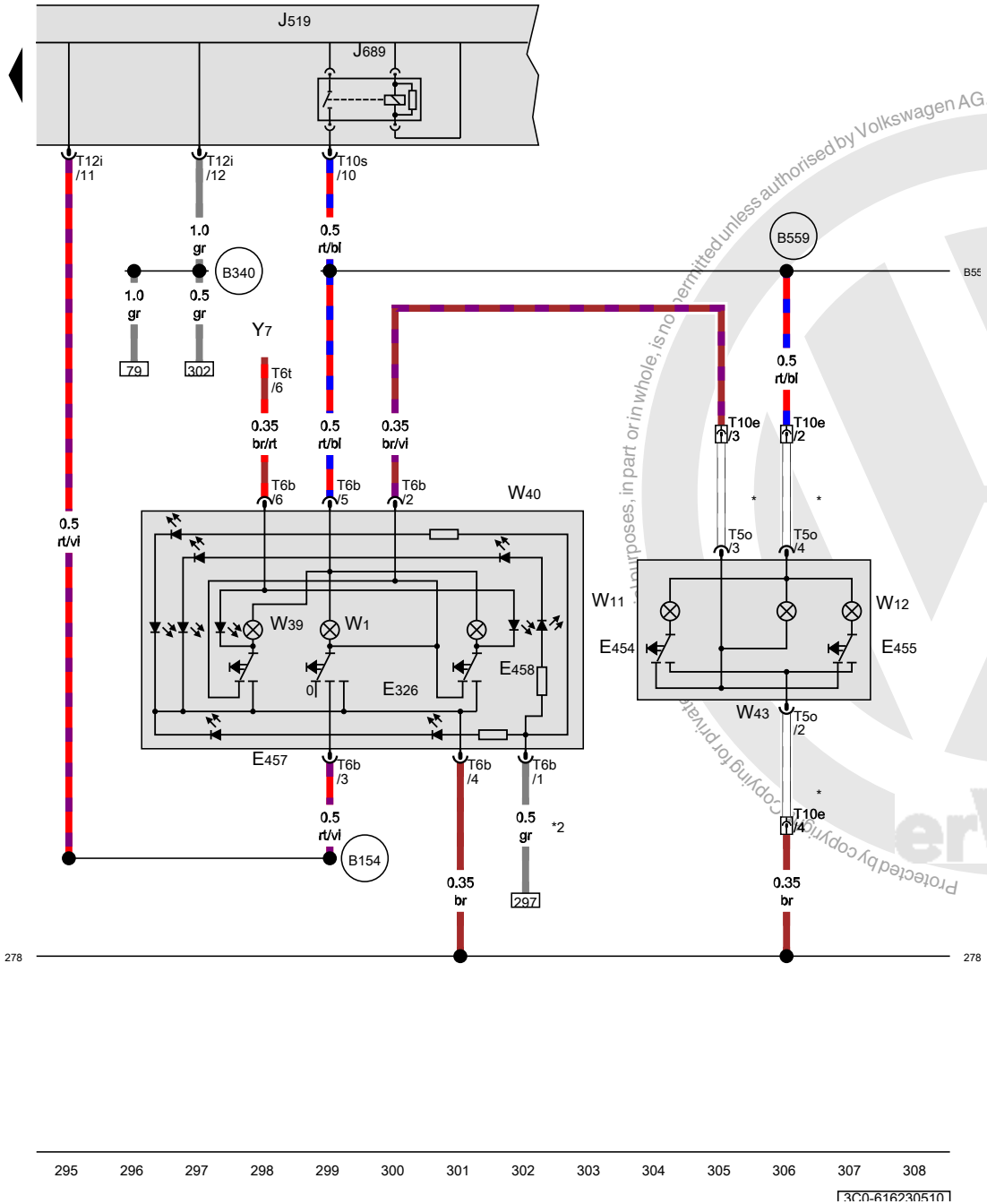
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sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Rain and light sensor, Wiper motor control unit, Windscreen wiper motor

G397	Rain and light sensor
J400	Wiper motor control unit
J519	Onboard supply control unit
SB22	Fuse 22 on fuse holder B
SB31	Fuse 31 on fuse holder B
T3ah	3-pin connector
T4k	4-pin connector
T8t	8-pin connector
T40	40-pin connector
V	Windscreen wiper motor
278	Earth connection 4, in interior wiring harness
395	Earth connection 30, in main wiring harness
646	Earth point 2, on bulkhead
689	Earth point, at front, central in roof
B528	Connection 1 (LIN bus) in main wiring harness
B616	Positive connection 12 (30a), in interior wiring harness
*	Fuses in E-box, High
*2	Fuses in E-box, Low

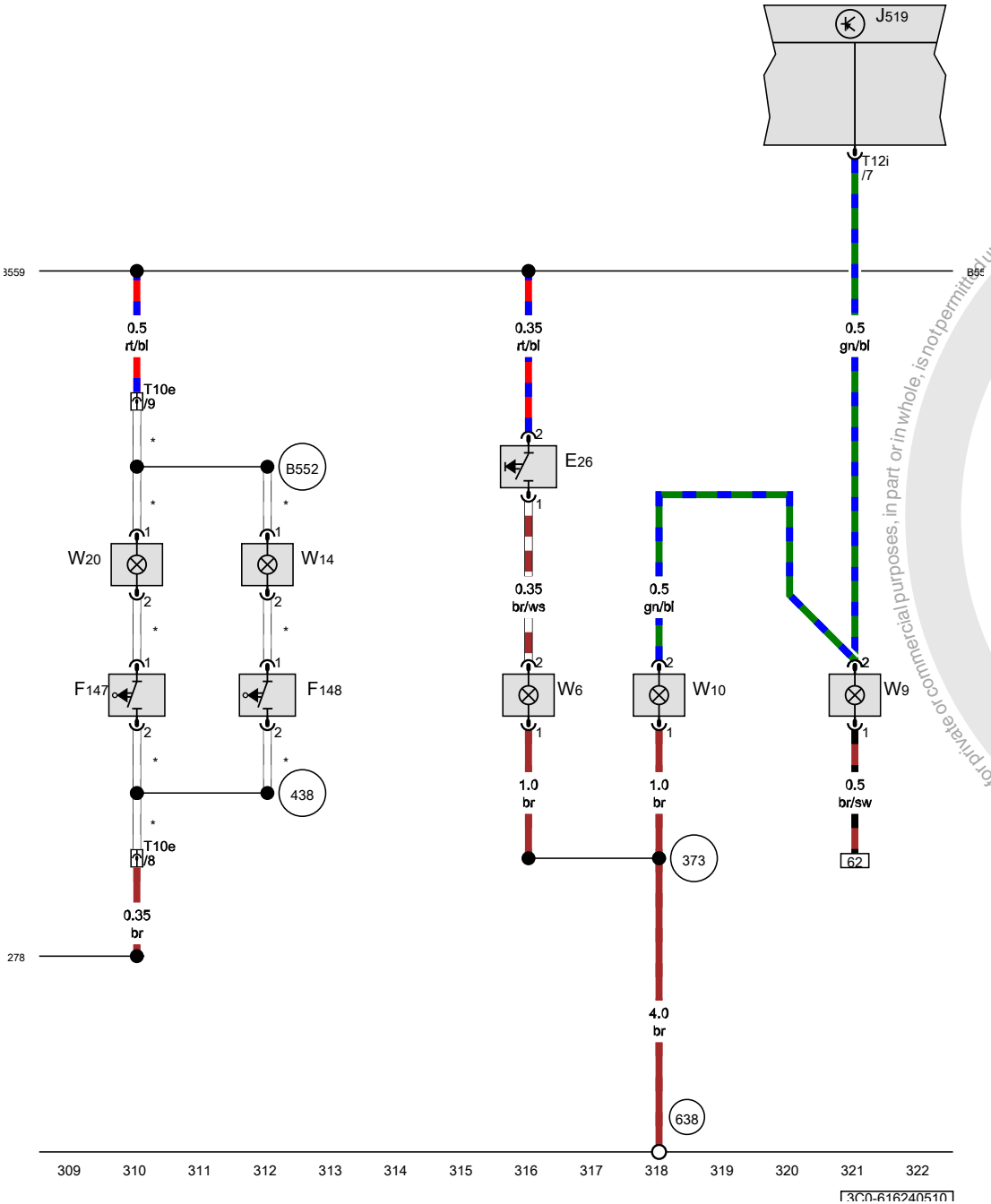


Front interior light button, Driver side reading light button, Front passenger side reading light button, Terminal 30 voltage supply relay 2, Front interior light, Left centre reading light, Right centre reading light, Rear interior light

E326	Front interior light button
E454	Rear left reading light button
E455	Rear right reading light button
E457	Driver side reading light button
E458	Front passenger side reading light button
J519	Onboard supply control unit
J689	Terminal 30 voltage supply relay 2
T5o	5-pin connector
T6b	6-pin connector
T6t	6-pin connector
T10e	10-pin connector
T10s	10-pin connector
T12i	12-pin connector
W1	Front interior light
W11	Rear left reading light
W12	Rear right reading light
W39	Left centre reading light
W40	Right centre reading light
W43	Rear interior light
Y7	Automatic anti-dazzle interior mirror
278	Earth connection 4, in interior wiring harness
B154	Connection 1 (DCt), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B559	Positive connection 1 (30g) in main wiring harness
*	Flat conductor
*2	Only models with sliding/tilting sunroof

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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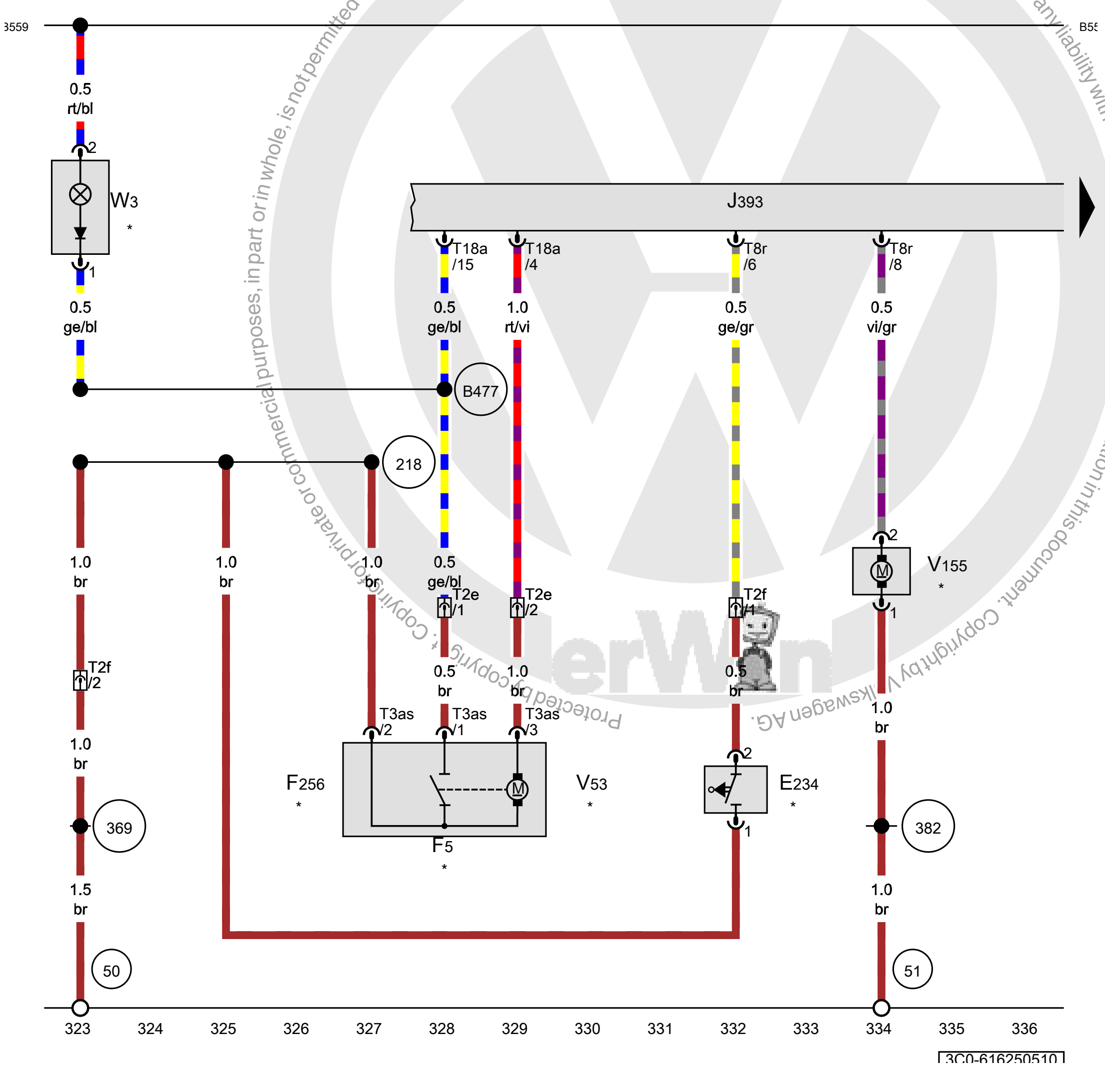
Glove compartment light switch, Driver vanity mirror contact switch, Glove compartment light, Left footwell light, Right footwell light, Front passenger side illuminated vanity mirror, Driver side illuminated vanity mirror

E26	Glove compartment light switch
F147	Driver vanity mirror contact switch
F148	Front passenger vanity mirror contact switch
J519	Onboard supply control unit
T10e	10-pin connector
T12i	12-pin connector
W6	Glove compartment light
W9	Left footwell light
W10	Right footwell light
W14	Front passenger side illuminated vanity mirror
W20	Driver side illuminated vanity mirror
278	Earth connection 4, in interior wiring harness
373	Earth connection 8, in main wiring harness
438	Earth connection 3, in roof wiring harness
638	Earth point, on right A-pillar
B552	Positive connection 2, in roof wiring harness
B559	Positive connection 1 (30g) in main wiring harness
*	Flat conductor

ws	=	white
sw	=	black
ro	=	red
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gn	=	green
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gr	=	grey
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Rear lid handle release button, Luggage compartment light switch, Convenience system central control unit, Tank filler flap locking motor, Luggage compartment light

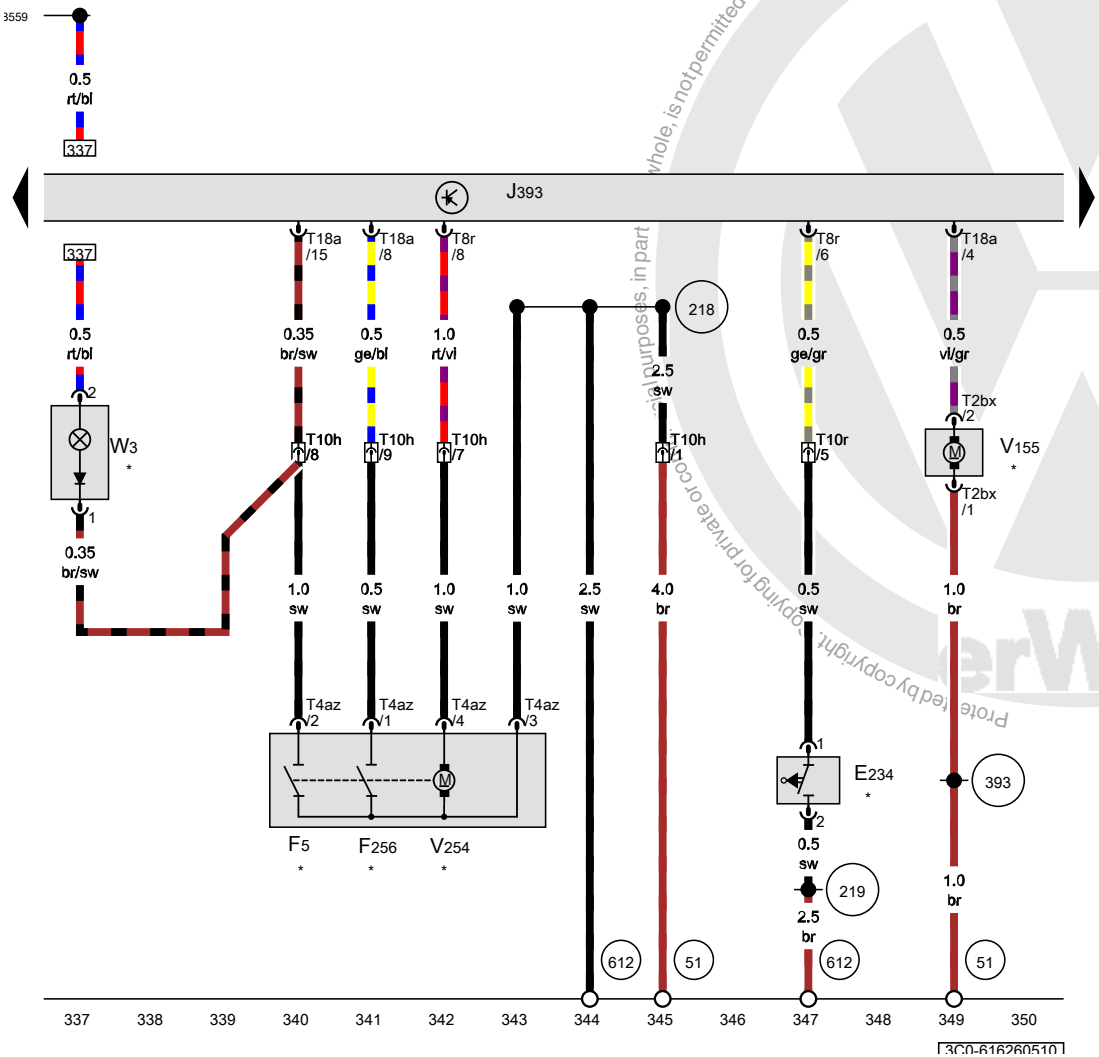


E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
T2e	2-pin connector, Coupling point for rear lid
T2f	2-pin connector, Coupling point for rear lid
T3as	3-pin connector
T8r	8-pin connector
T18a	18-pin connector
V53	Rear lid central locking motor
V155	Tank filler flap locking motor
W3	Luggage compartment light
50	Earth point, on left in luggage compartment
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
382	Earth connection 17, in main wiring harness
B477	Connection 13, in main wiring harness
B559	Positive connection 1 (30g) in main wiring harness
*	Saloon

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Rear lid handle release button, Luggage compartment light switch, Rear lid lock unit, Convenience system central control unit, Tank filler flap locking motor, Rear lid electric opener motor, Luggage compartment light



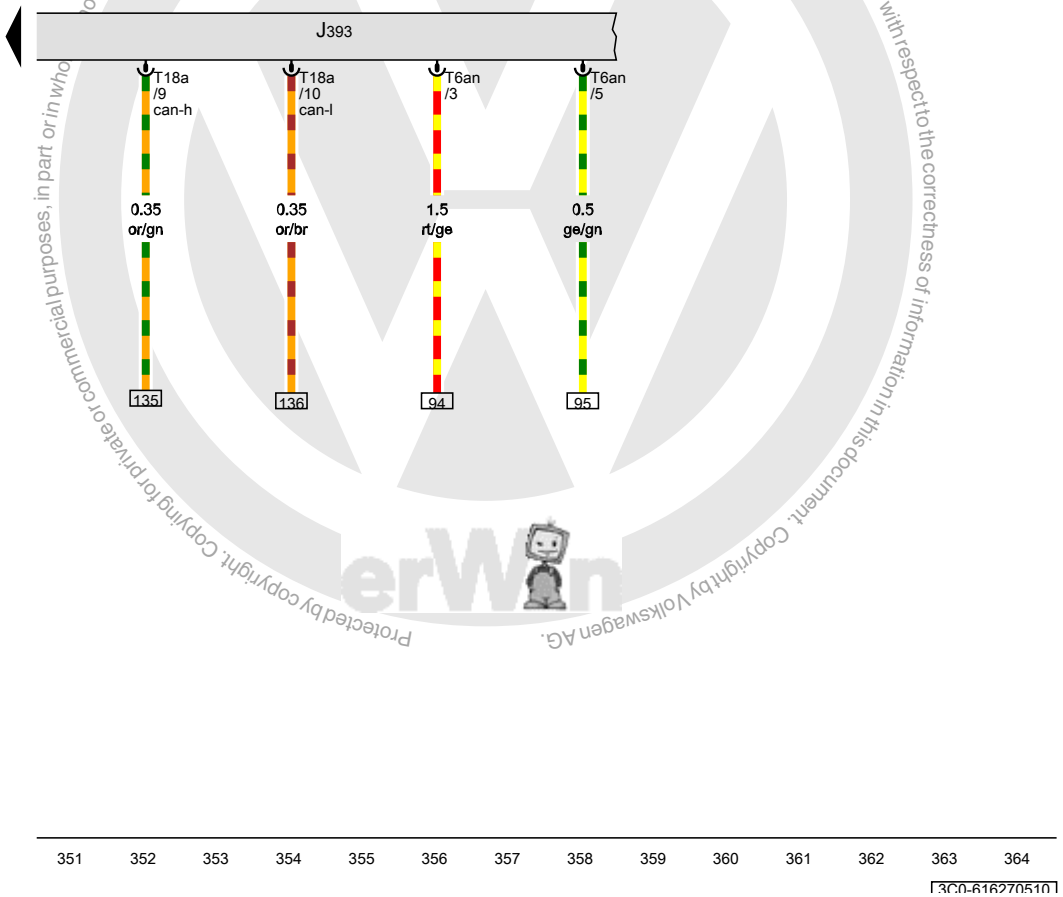
E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
T2bx	2-pin connector
T4az	4-pin connector
T8r	8-pin connector
T10h	10-pin connector, Coupling point for rear lid
T10r	10-pin connector
T18a	18-pin connector
V155	Tank filler flap locking motor
V254	Rear lid electric opener motor
W3	Luggage compartment light
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
219	Earth connection 2, in rear lid wiring harness
393	Earth connection 28, in main wiring harness
612	Earth point, centre on rear lid
B559	Positive connection 1 (30g) in main wiring harness
*	Variant

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Convenience system central control unit

J393 Convenience system central control unit
T6an 6-pin connector
T18a 18-pin connector



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351 352 353 354 355 356 357 358 359 360 361 362 363 364

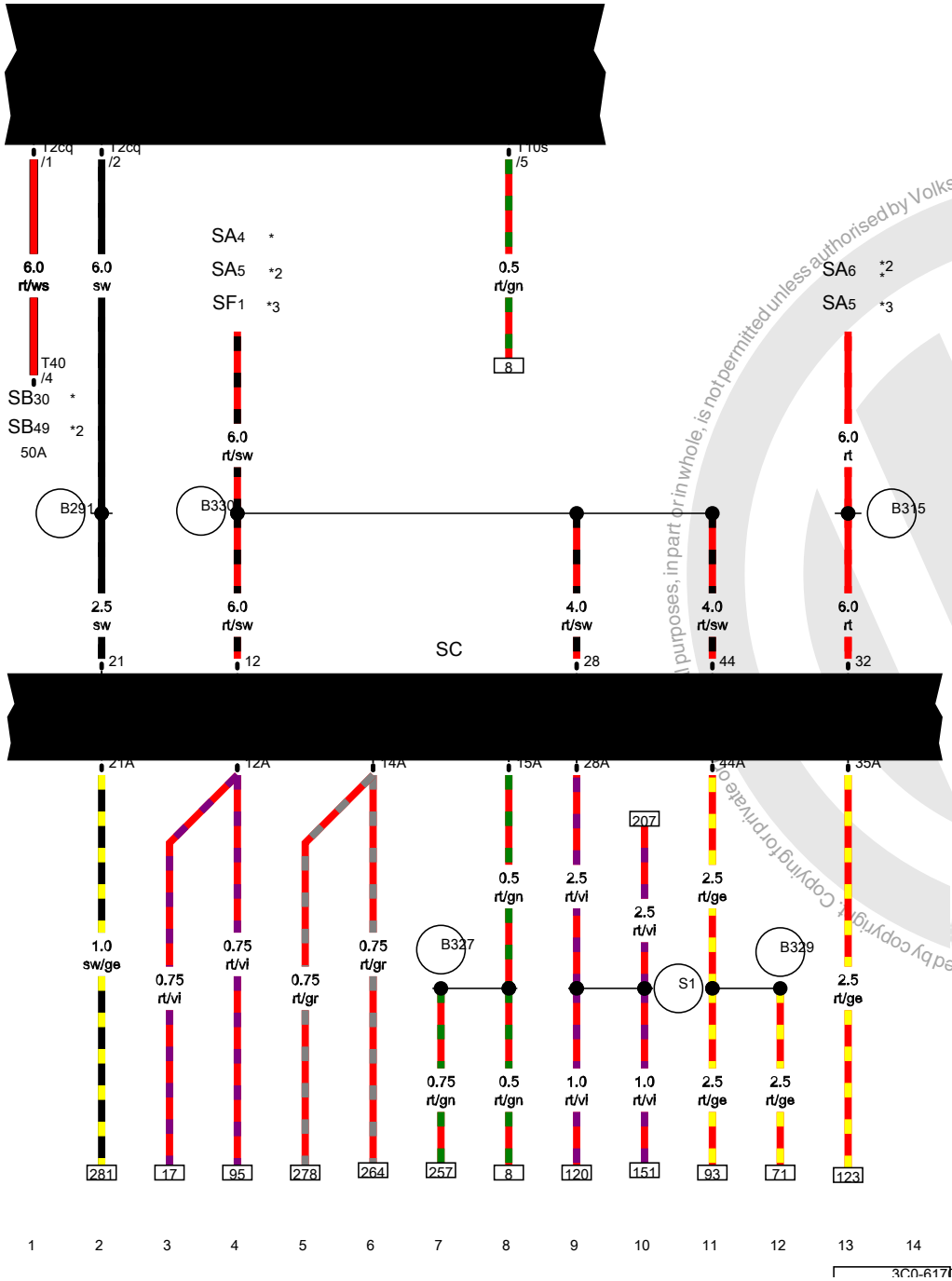
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ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Convenience system

From November 2009

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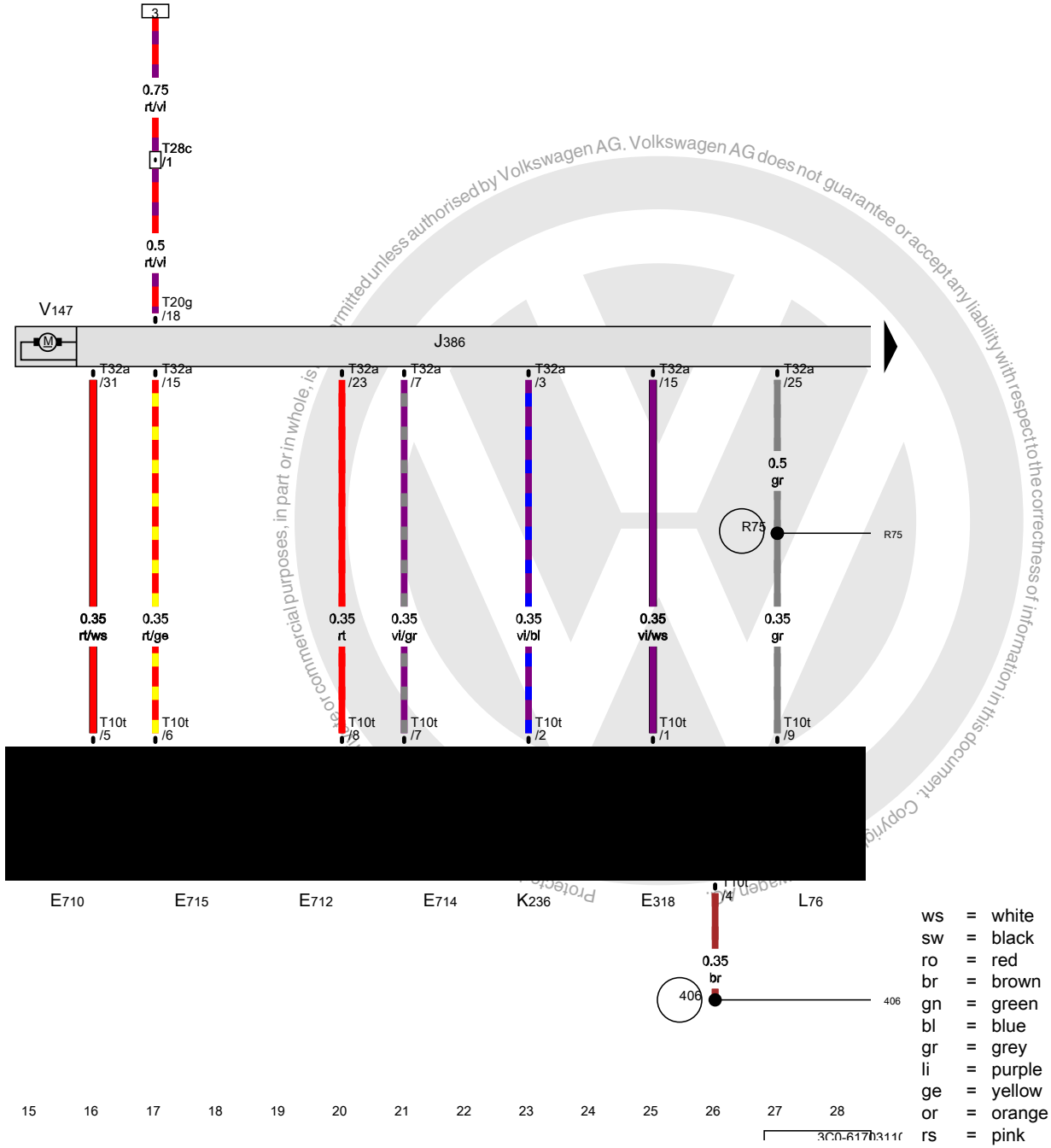


Onboard supply control unit, Fuse holder C

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SF1	Fuse 1 in fuse holder F
SA4	Fuse 4 in fuse holder A
SA5	Fuse 5 in fuse holder A
SA6	Fuse 6 in fuse holder A
SC	Fuse holder C
SC12	Fuse 12 on fuse holder C
SC14	Fuse 14 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC21	Fuse 21 on fuse holder C
SC28	Fuse 28 on fuse holder C
SB30	Fuse 30 on fuse holder B
SC35	Fuse 35 on fuse holder C
SC44	Fuse 44 on fuse holder C
SB49	Fuse 49 on fuse holder B
T2cq	2-pin connector
T10s	10-pin connector
T40	40-pin connector
B291	Positive connection 15 (15a) in main wiring harness
B315	Positive connection 1 (30a) in main wiring harness
B327	Positive connection 13 (30a) in main wiring harness
B329	Positive connection 15 (30a) in main wiring harness
B330	Positive connection 16 (30a) in main wiring harness
S1	Positive connection (30), in central locking wiring harness
*	Fuses in E-box, Low
*2	Fuses in E-box, High
*3	Only models with battery in luggage compartment

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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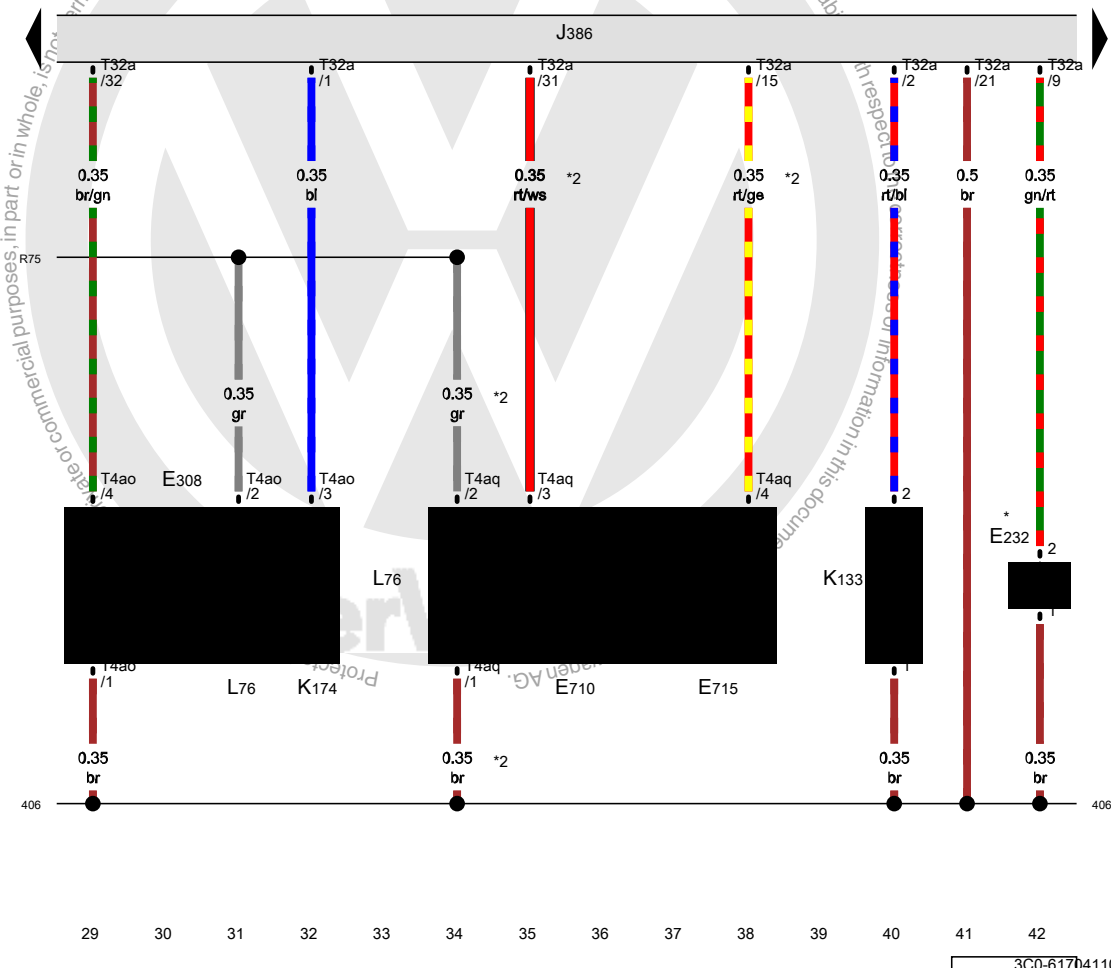


Front driver side window regulator button, Front passenger side window regulator button, in driver door, Driver door control unit, Driver side window regulator motor

E318	Childproof lock button
E710	Front driver side window regulator button
E712	Rear driver side window regulator button, in driver door
E714	Rear passenger side window regulator button, in driver door
E715	Front passenger side window regulator button, in driver door
J386	Driver door control unit
K236	Warning light for activated childproof lock
L76	Button illumination bulb
T10t	10-pin connector
T20g	20-pin connector
T28c	28-pin connector, in left A-pillar coupling station
T32a	32-pin connector
V147	Driver side window regulator motor
406	Earth connection 5, in drive side door wiring harness
R75	Connection 1 (58d), in door control unit wiring harness

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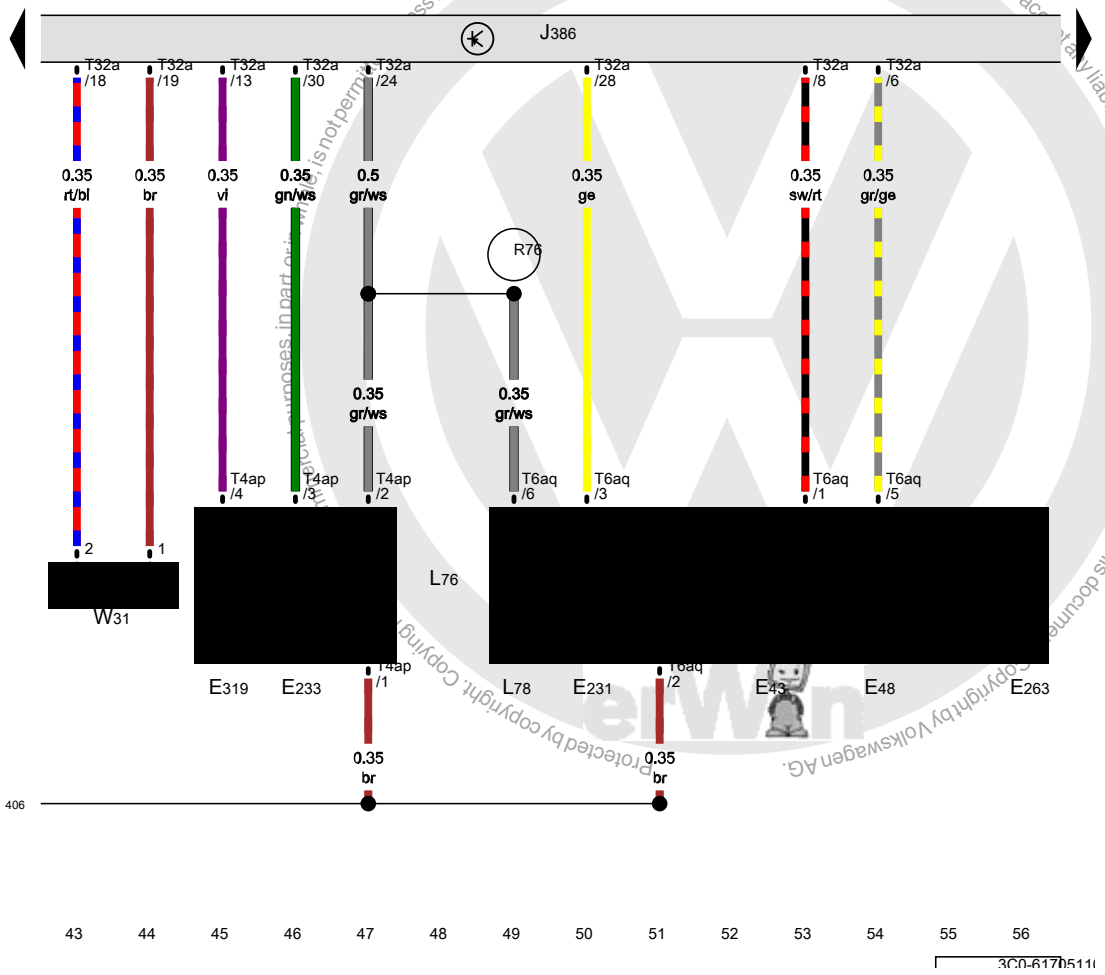
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Key operated switch to block release of rear lid remote, Driver side interior locking button for central locking system, Front driver side window regulator button, Front passenger side window regulator button, in driver door, Driver door control unit, Central locking deadlock function warning lamp -SAFE-

E232	Key operated switch to block release of rear lid remote
E308	Driver side interior locking button for central locking system
E710	Front driver side window regulator button
E715	Front passenger side window regulator button, in driver door
J386	Driver door control unit
K133	Central locking deadlock function warning lamp -SAFE-
K174	Driver side interior locking warning lamp
L76	Button illumination bulb
T4ao	4-pin connector
T4aq	4-pin connector
T32a	32-pin connector
406	Earth connection 5, in drive side door wiring harness
R75	Connection 1 (58d), in door control unit wiring harness
*	Only for American markets
*2	Only models with manual window regulators

Mirror adjustment switch, Exterior mirror heater button, Rear lid remote release button, Fuel tank flap release button, Driver door control unit, Front left entry light

E43	Mirror adjustment switch
E48	Mirror adjustment changeover switch
E231	Exterior mirror heater button
E233	Rear lid remote release button
E263	Fold-in mirror switch
E319	Fuel tank flap release button
J386	Driver door control unit
L76	Button illumination bulb
L78	Mirror adjustment switch illumination bulb
T4ap	4-pin connector
T6aq	6-pin connector
T32a	32-pin connector
W31	Front left entry light
406	Earth connection 5, in drive side door wiring harness
R76	Connection 2 (58d), in door control unit wiring harness

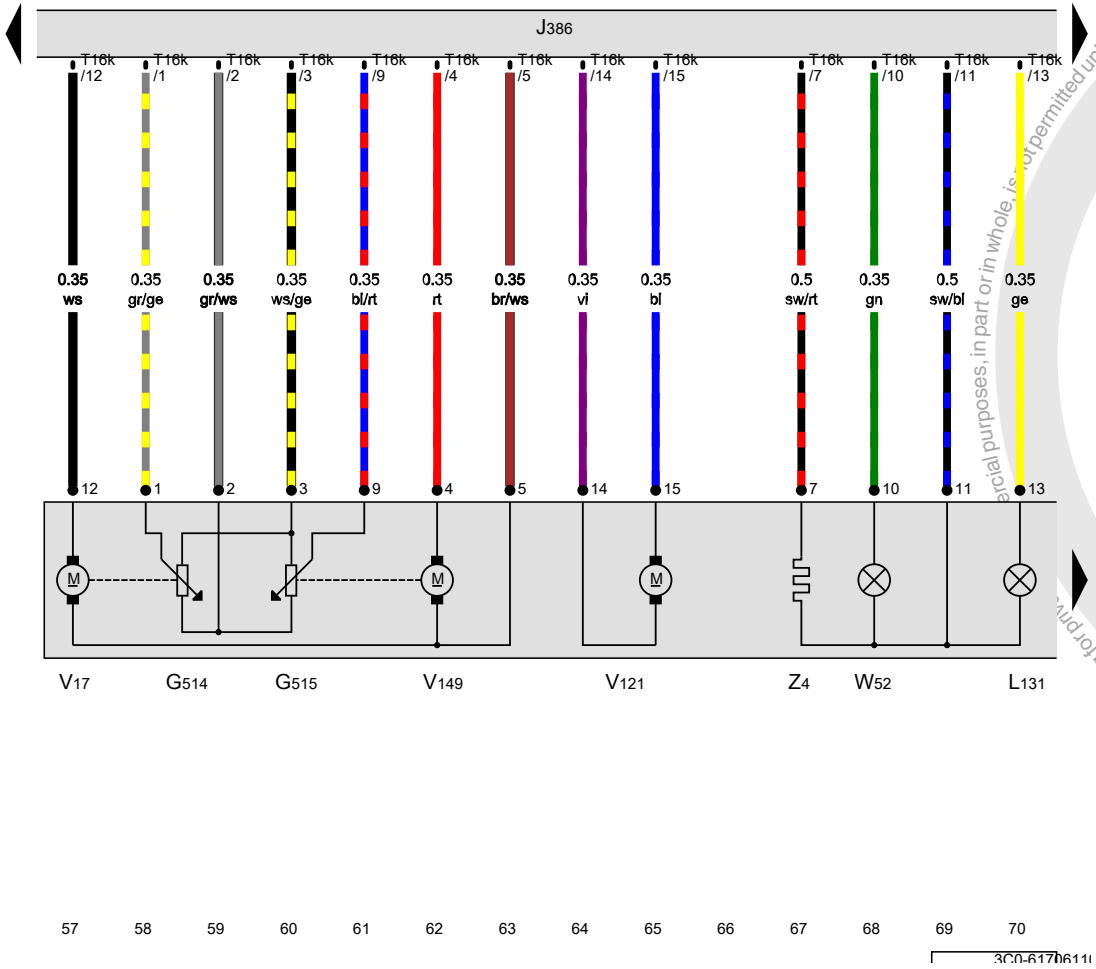


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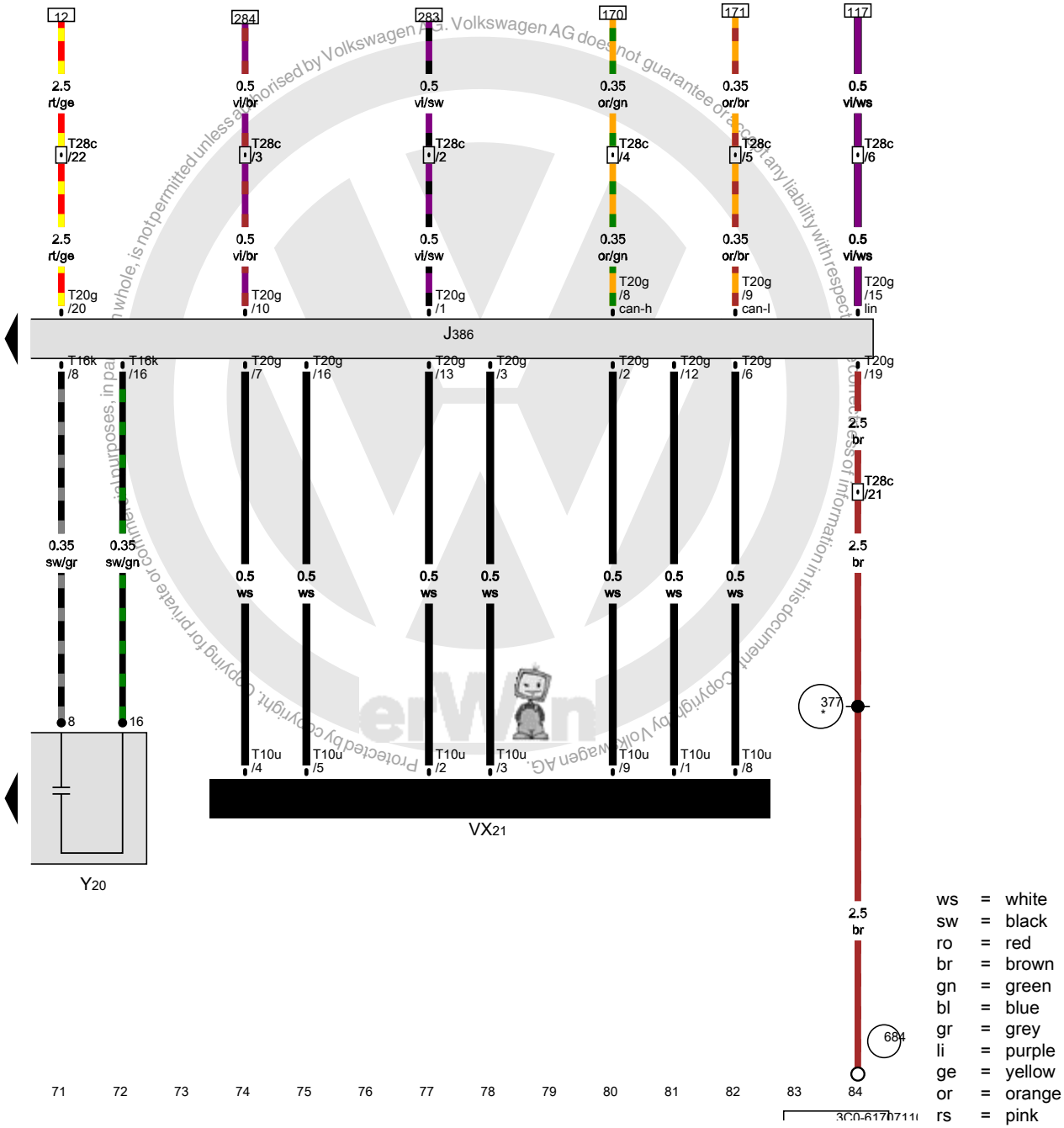
Potentiometer for horizontal adjustment of driver side mirror, Potentiometer for vertical adjustment of driver side mirror, Driver door control unit, Driver side mirror adjustment motor, Driver side fold-in mirror motor, Driver side mirror adjustment motor, Heated exterior mirror on driver side

G514	Potentiometer for horizontal adjustment of driver side mirror
G515	Potentiometer for vertical adjustment of driver side mirror
J386	Driver door control unit
L131	Driver side turn signal repeater bulb
T16k	16-pin connector
V17	Driver side mirror adjustment motor
V121	Driver side fold-in mirror motor
V149	Driver side mirror adjustment motor
W52	Driver side entry light in exterior mirror
Z4	Heated exterior mirror on driver side



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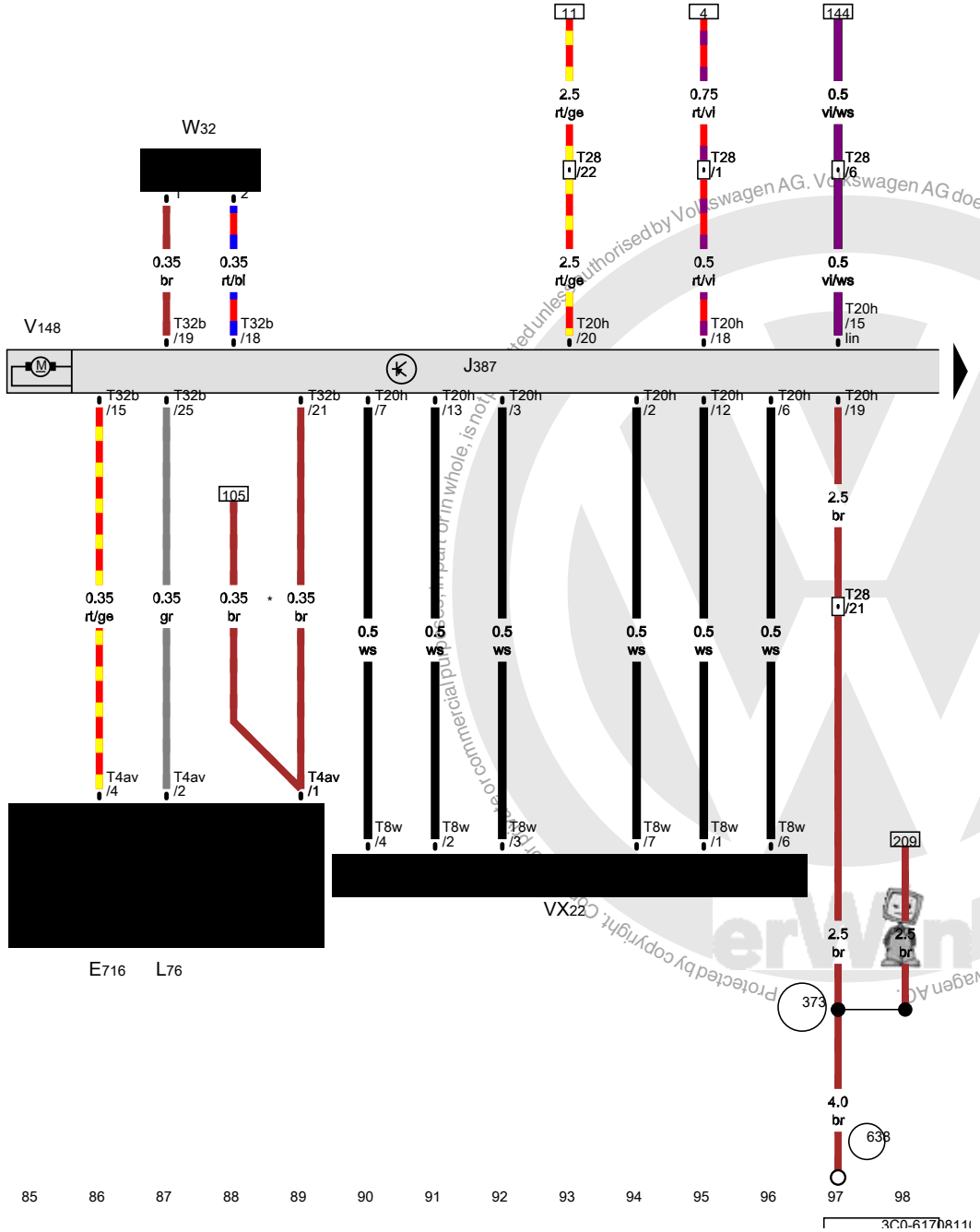


Driver door control unit, Driver door lock unit

J386	Driver door control unit
T10u	10-pin connector
T16k	16-pin connector
T20g	20-pin connector
T28c	28-pin connector, in left A-pillar coupling station
VX21	Driver door lock unit
Y20	Driver side automatic anti-dazzle exterior mirror
377	Earth connection 12, in main wiring harness
684	Earth point on front of left side member
*	According to equipment

ws	=	white
sw	=	black
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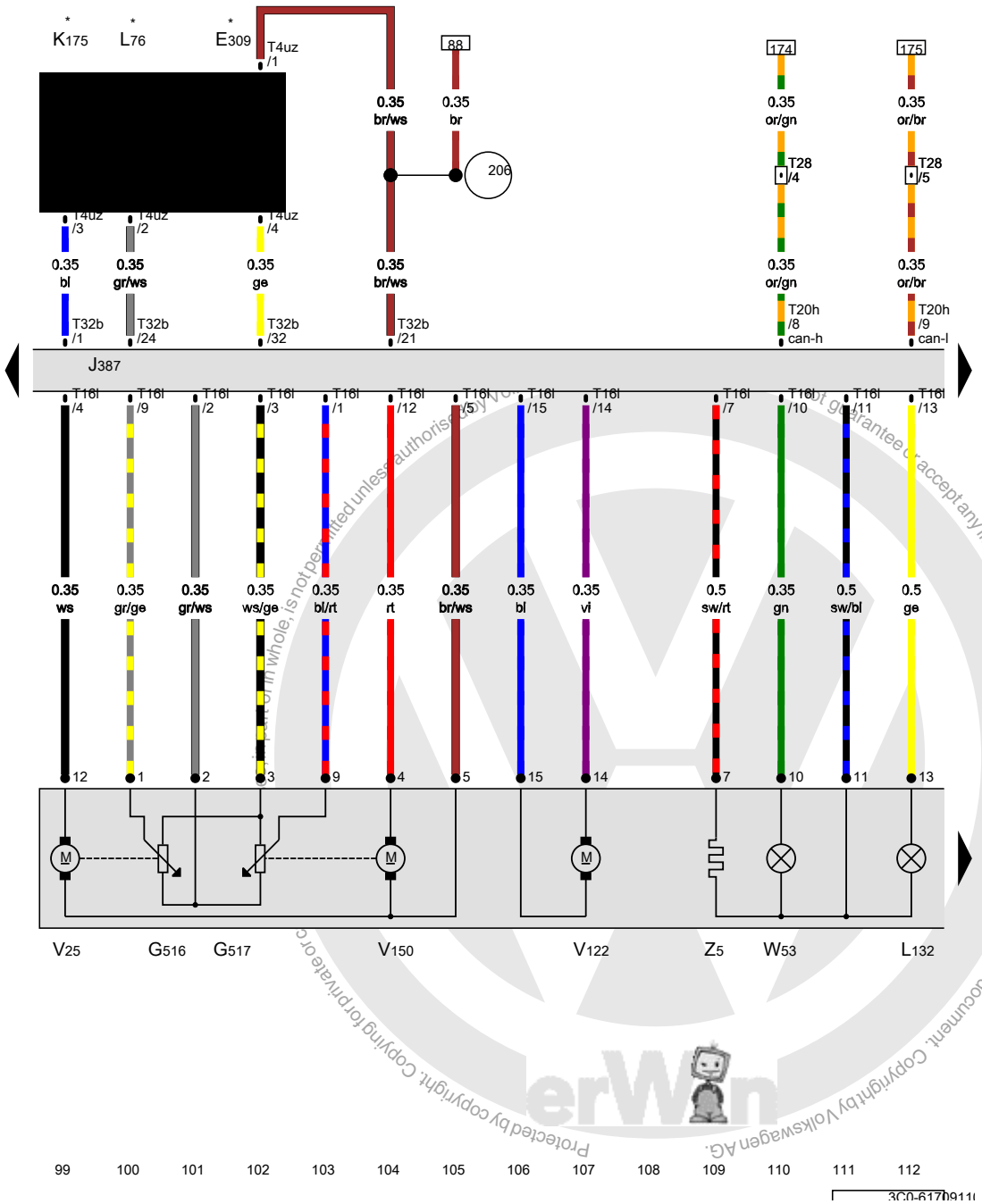


Front passenger side window regulator button, Front passenger door control unit, Front passenger door lock unit, Front passenger side window regulator motor, Front right entry light

E716	Front passenger side window regulator button
J387	Front passenger door control unit
L76	Button illumination bulb
T4av	4-pin connector
T8w	8-pin connector
T20h	20-pin connector
T28	28-pin connector, in right A-pillar coupling station
T32b	32-pin connector
VX22	Front passenger door lock unit
V148	Front passenger side window regulator motor
W32	Front right entry light
373	Earth connection 8, in main wiring harness
638	Earth point, on right A-pillar
*	According to equipment

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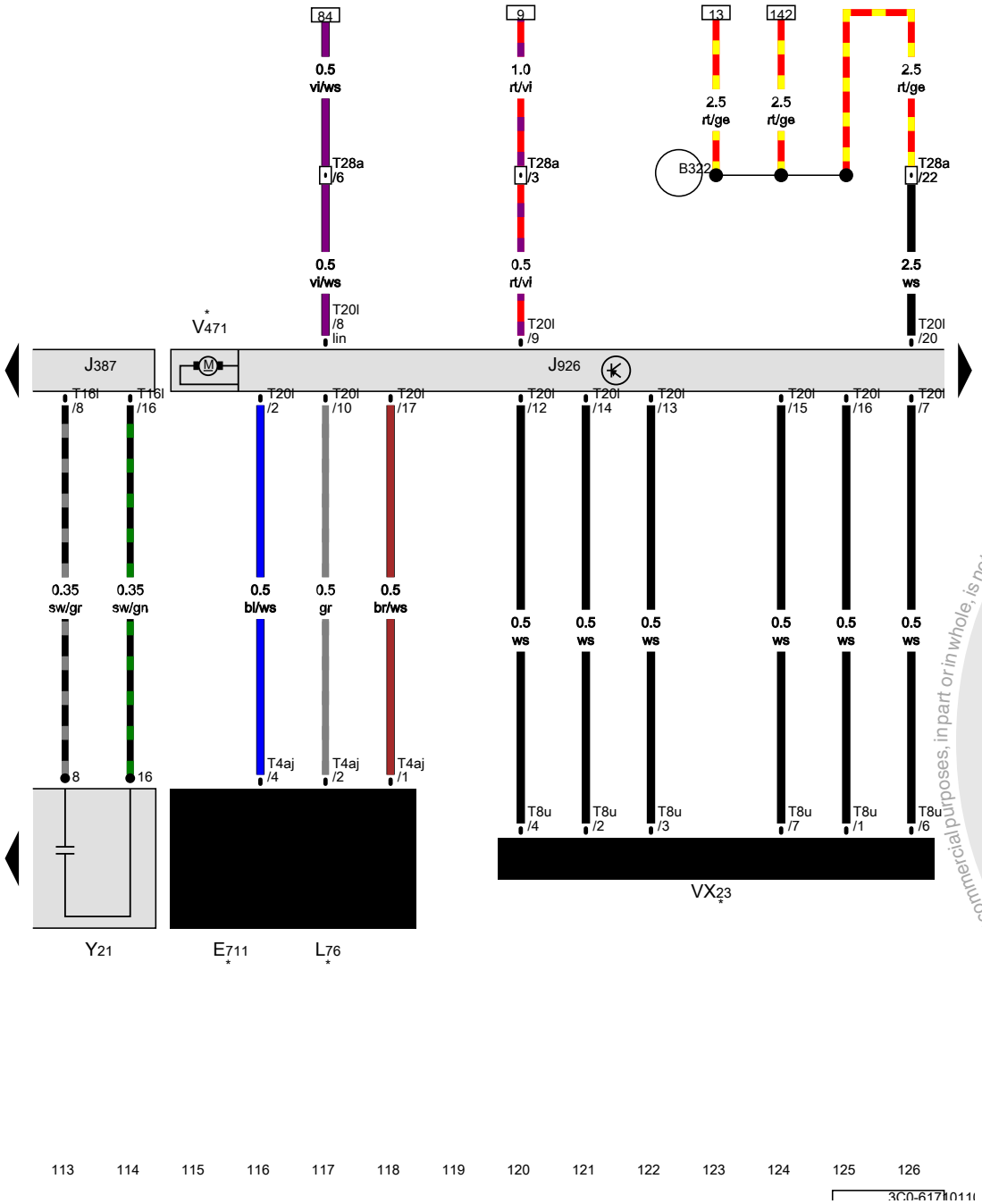


Front passenger side interior locking button for central locking system, Front passenger door control unit, Front passenger side mirror adjustment motor, Front passenger side mirror adjustment motor, Heated exterior mirror on front passenger side

E309	Front passenger side interior locking button for central locking system
G516	Potentiometer for horizontal adjustment of front passenger side mirror
G517	Potentiometer for vertical adjustment of front passenger side mirror
J387	Front passenger door control unit
K175	Front passenger side interior locking warning lamp
L76	Button illumination bulb
L132	Front passenger side turn signal repeater bulb
T4uz	4-pin connector
T16l	16-pin connector
T20h	20-pin connector
T28	28-pin connector, in right A-pillar coupling station
T32b	32-pin connector
V25	Front passenger side mirror adjustment motor
V122	Front passenger side fold-in mirror motor
V150	Front passenger side mirror adjustment motor
W53	Front passenger side entry light in exterior mirror
Z5	Heated exterior mirror on front passenger side
(206)	Earth connection, in front passenger door wiring harness
*	According to equipment

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Rear driver side window regulator button, Front passenger door control unit, Rear driver side door control unit, Rear left door lock unit, Rear driver side window regulator motor

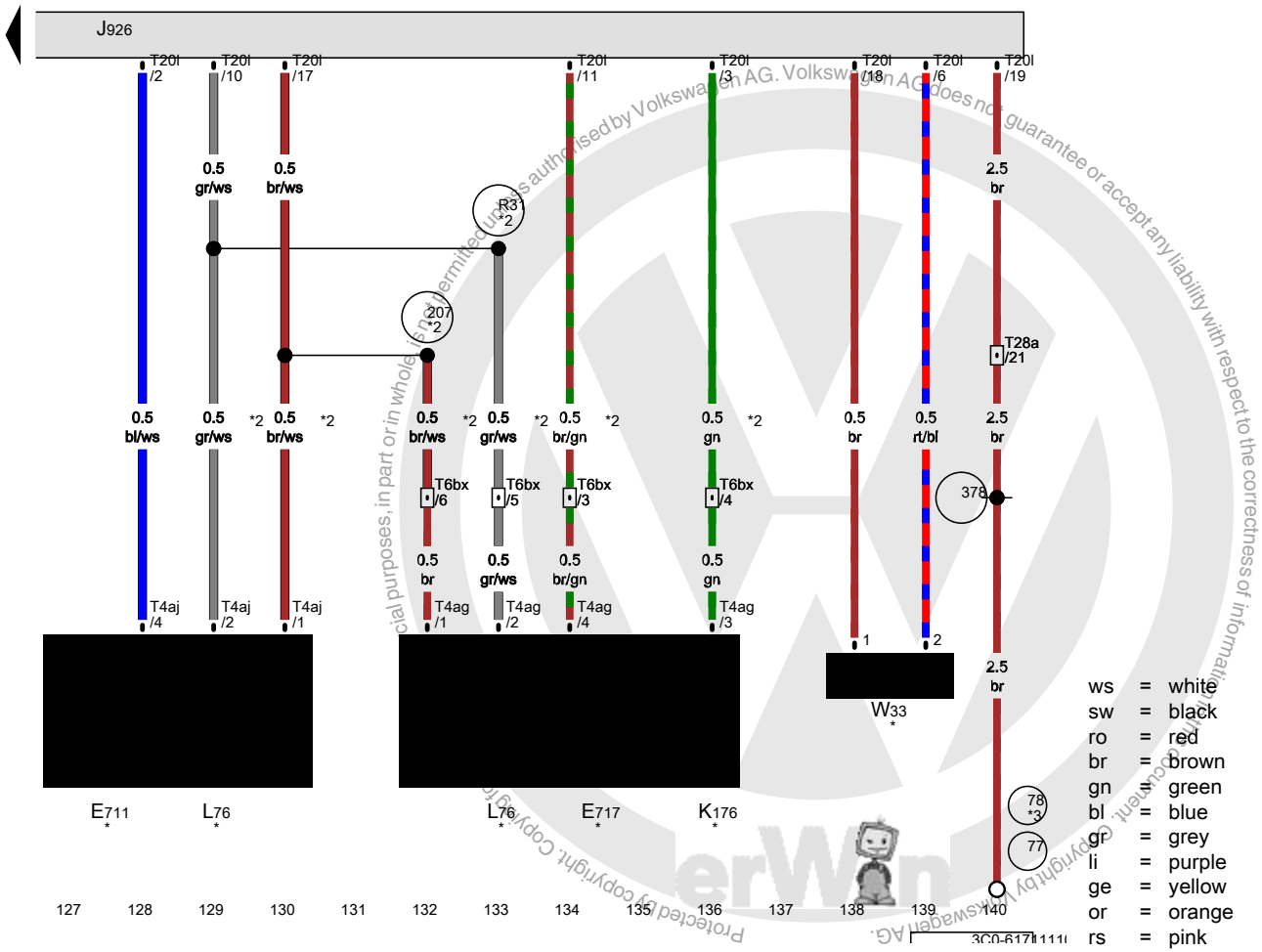
E711	Rear driver side window regulator button
J387	Front passenger door control unit
J926	Rear driver side door control unit
L76	Button illumination bulb
T4aj	4-pin connector
T8u	8-pin connector
T16l	16-pin connector
T20l	20-pin connector
T28a	28-pin connector, on left B-pillar
VX23	Rear left door lock unit
V471	Rear driver side window regulator motor
Y21	Front passenger side automatic anti-dazzle exterior mirror
B322	Positive connection 8 (30a) in main wiring harness
*	Only models with rear electric window regulator

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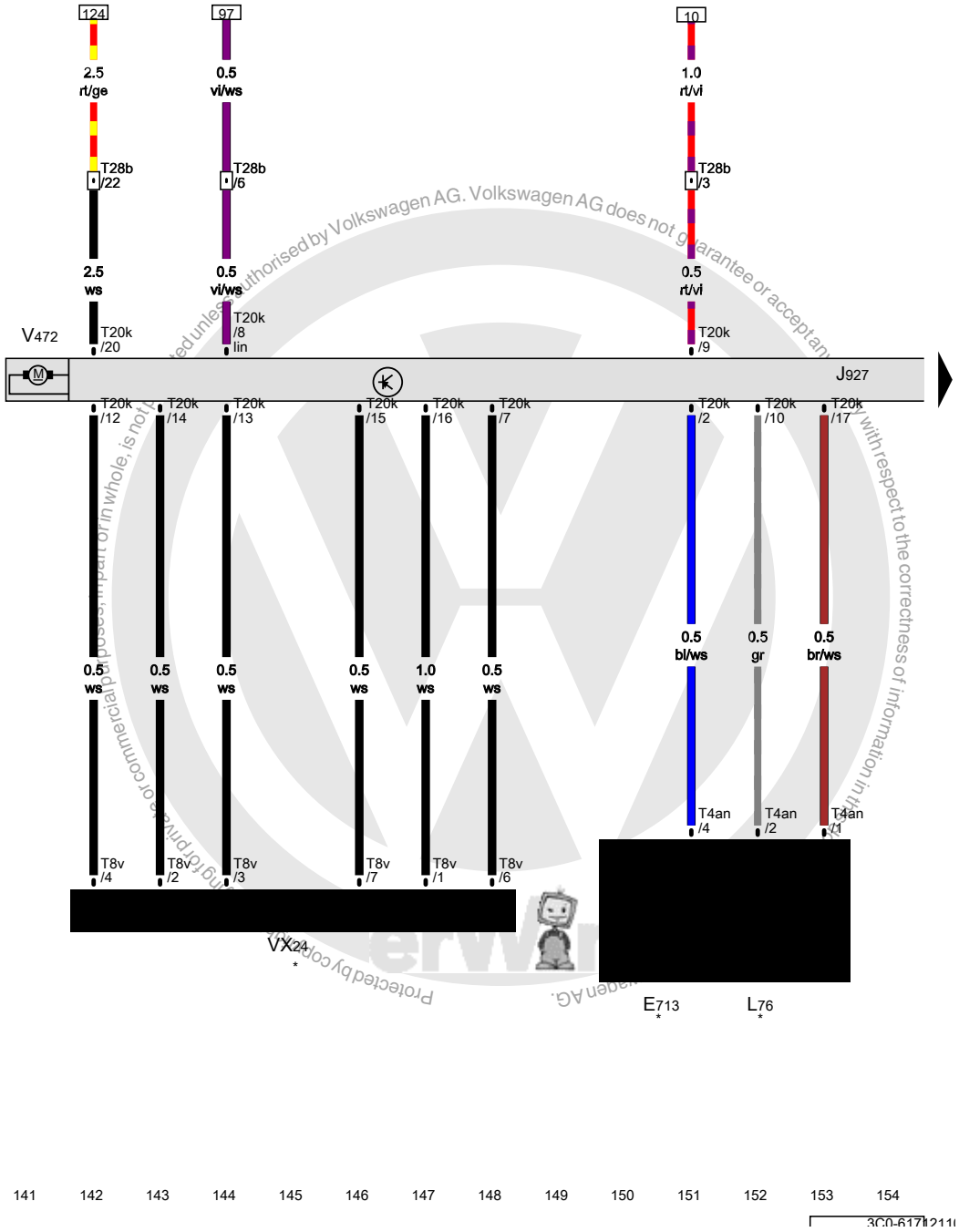
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Rear driver side window regulator button, Rear driver side interior locking button for central locking system, Rear driver side door control unit, Rear left entry light

E711	Rear driver side window regulator button
E717	Rear driver side interior locking button for central locking system
J926	Rear driver side door control unit
K176	Rear left interior locking warning lamp
L76	Button illumination bulb
T4ag	4-pin connector
T4aj	4-pin connector
T6bx	6-pin connector, in rear left door
T20l	20-pin connector
T28a	28-pin connector, on left B-pillar
W33	Rear left entry light
77	Earth point, lower part of left B-pillar
78	Earth point, lower part of right B-pillar
207	Earth connection, in rear left door wiring harness
378	Earth connection 13, in main wiring harness
R31	Connection 1, in rear left door wiring harness
*	Only models with rear electric window regulator
*2	Only for American markets
*3	Only right-hand drive models



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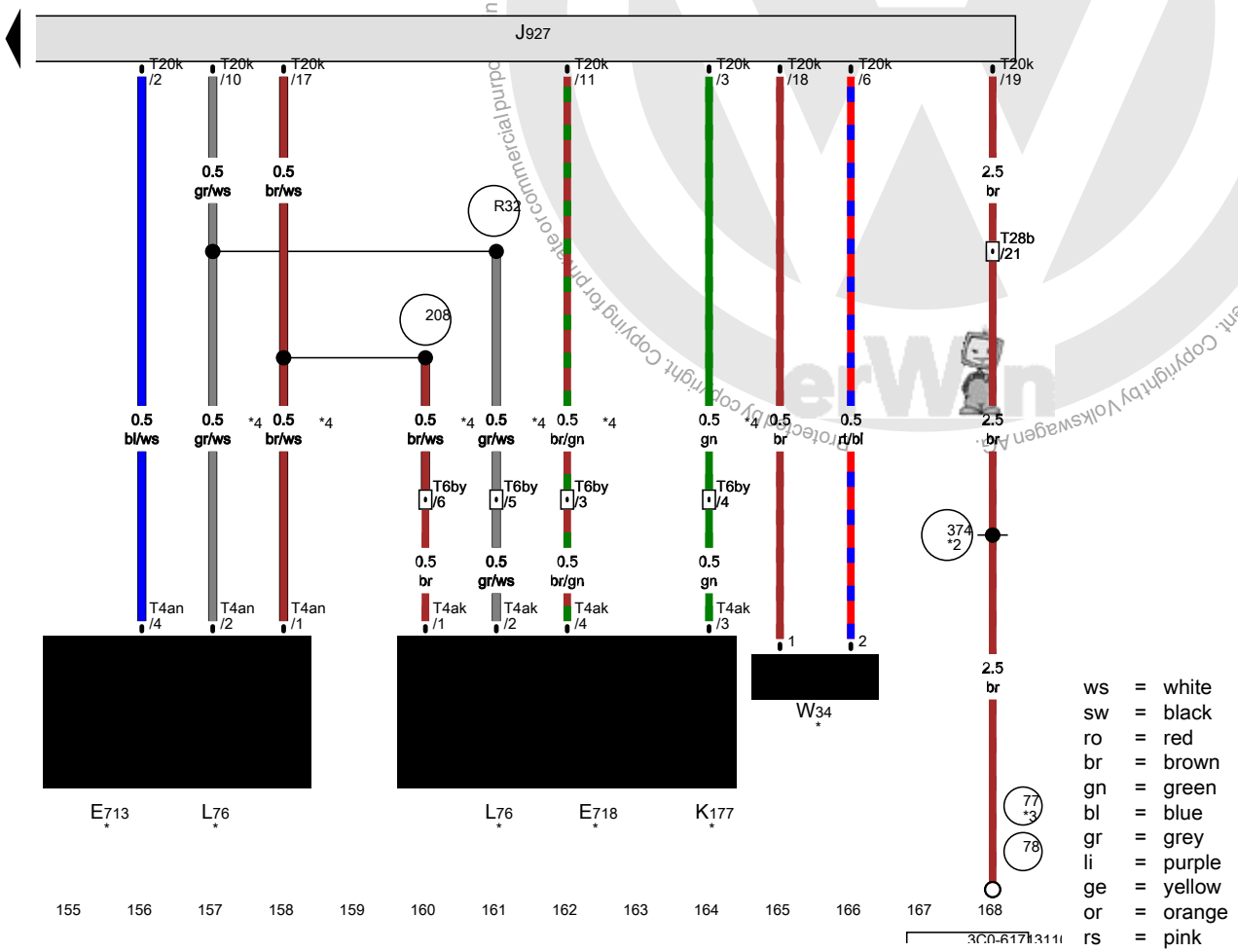
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Rear passenger side window regulator button, Rear passenger side door control unit, Rear right door lock unit, Rear passenger side window regulator motor

E713	Rear passenger side window regulator button
J927	Rear passenger side door control unit
L76	Button illumination bulb
T4an	4-pin connector
T8v	8-pin connector
T20k	20-pin connector
T28b	28-pin connector, on right B-pillar
VX24	Rear right door lock unit
V472	Rear passenger side window regulator motor
*	Only models with rear electric window regulator

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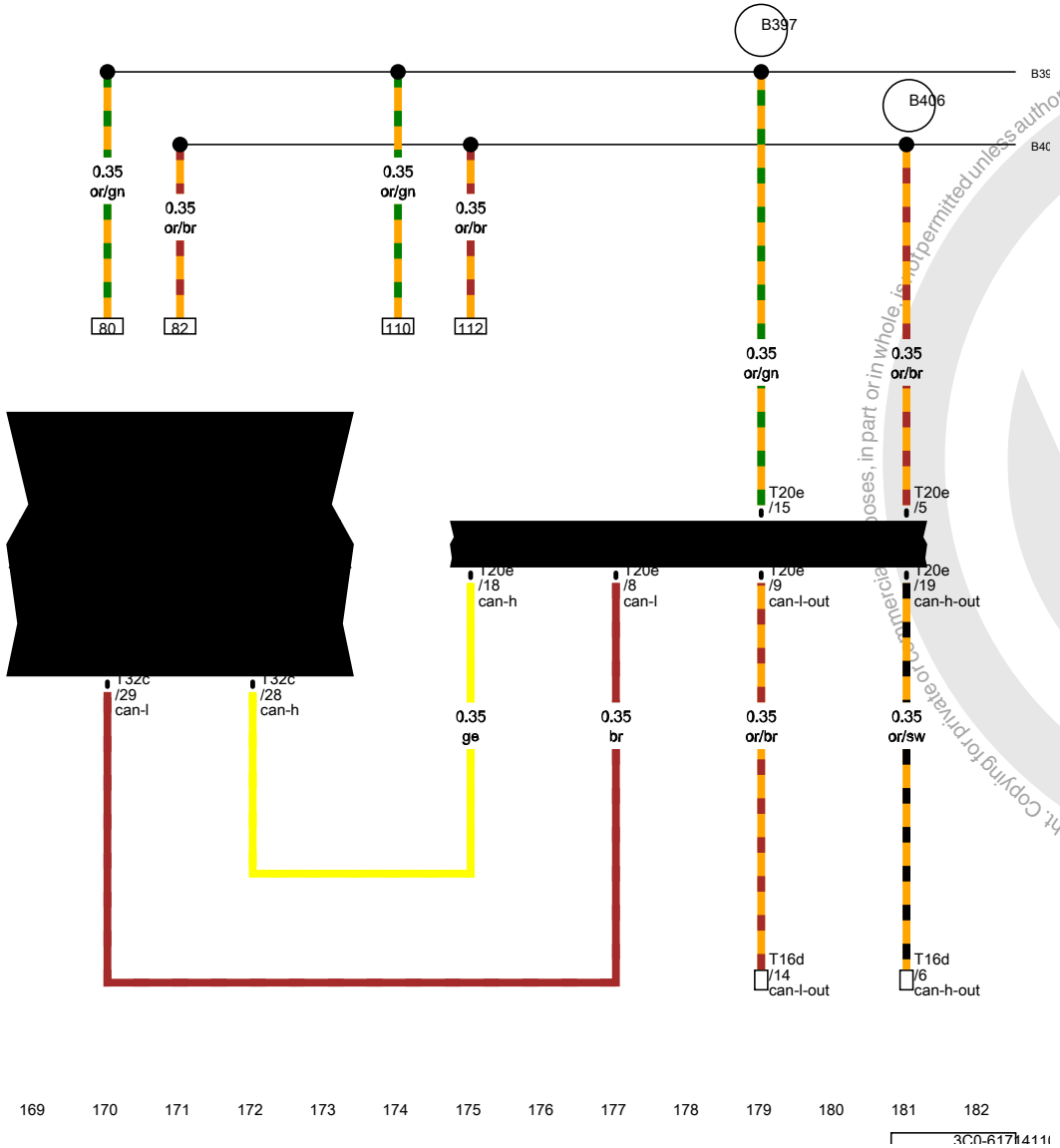


Rear passenger side window regulator button, Rear passenger side interior locking button for central locking system, Rear passenger side door control unit, Rear right entry light

E713	Rear passenger side window regulator button
E718	Rear passenger side interior locking button for central locking system
J927	Rear passenger side door control unit
K177	Rear right interior locking warning lamp
L76	Button illumination bulb
T4ak	4-pin connector
T4an	4-pin connector
T6by	6-pin connector, in rear right door
T20k	20-pin connector
T28b	28-pin connector, on right B-pillar
W34	Rear right entry light
77	Earth point, lower part of left B-pillar
78	Earth point, lower part of right B-pillar
208	Earth connection, in rear right door wiring harness
374	Earth connection 9, in main wiring harness
R32	Connection 2, in rear right door wiring harness
*	Only models with rear electric window regulator
*2	According to equipment
*3	Only right-hand drive models
*4	Only for American markets

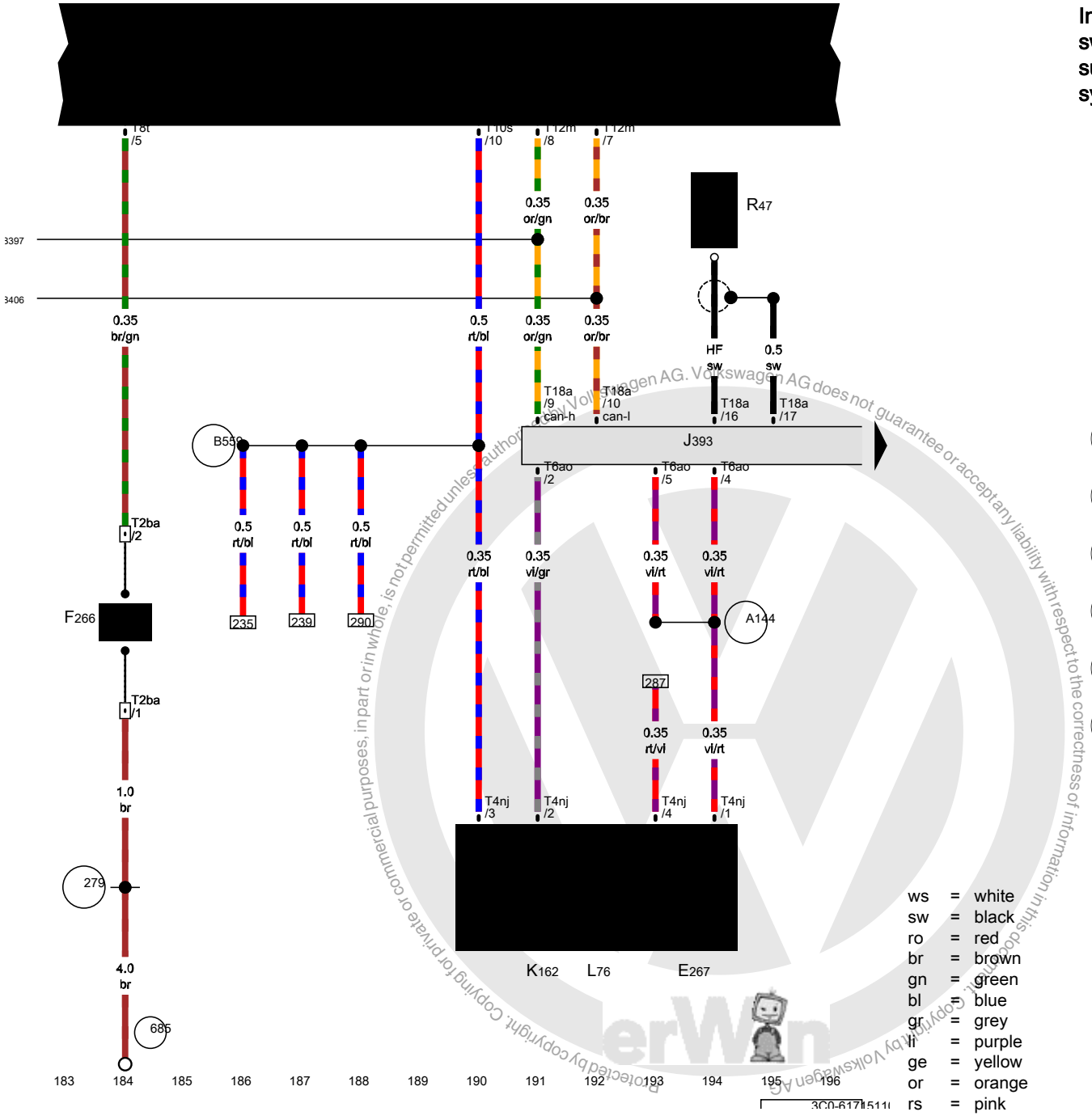
Control unit in dash panel insert, Data bus diagnostic interface

J119 Multifunction indicator
J285 Control unit in dash panel insert
J533 Data bus diagnostic interface
T16d 16-pin connector, on diagnostic connection
T20e 20-pin connector
T32c 32-pin connector
B397 Connection 1 (convenience CAN bus, high), in main wiring harness
B406 Connection 1 (convenience CAN bus, low), in main wiring harness



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li = purple
ge = yellow
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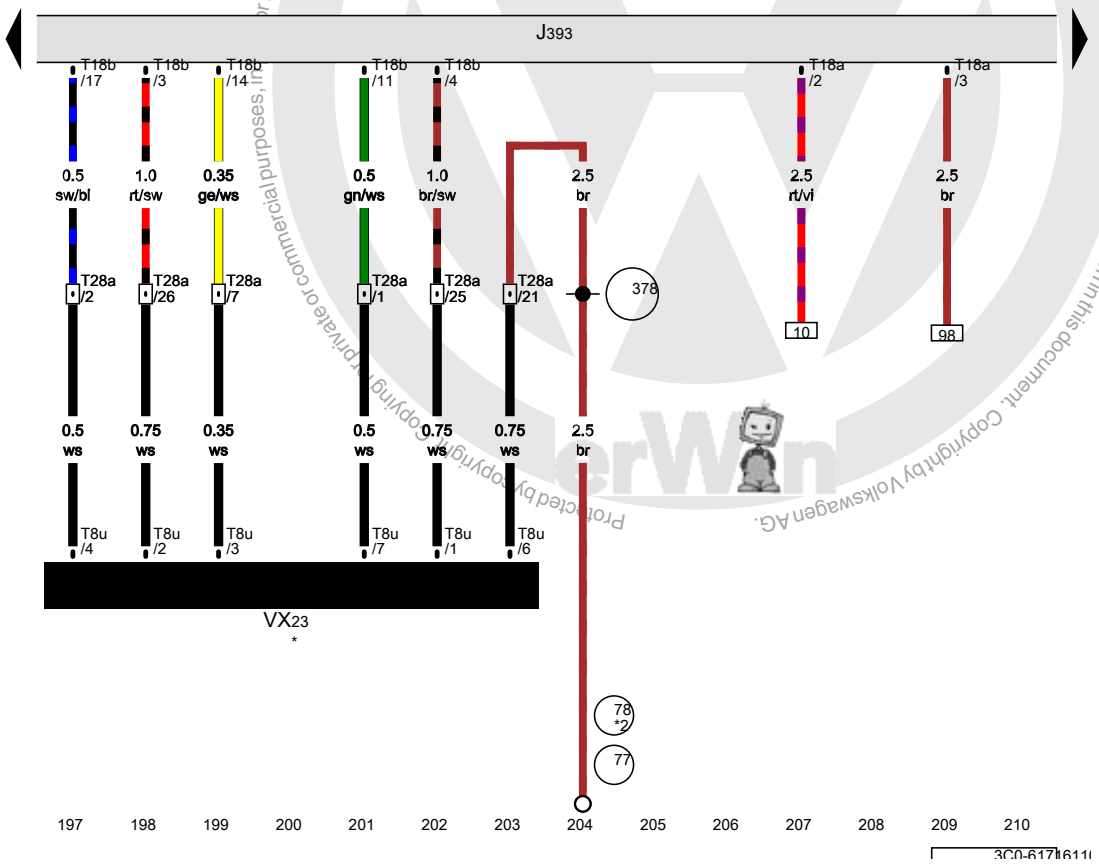
Interior monitoring deactivation switch, Bonnet contact switch, Convenience system central control unit, Onboard supply control unit, Central locking and anti-theft alarm system aerial

E267	Interior monitoring deactivation switch
F266	Bonnet contact switch
J393	Convenience system central control unit
J519	Onboard supply control unit
K162	Interior monitoring off warning lamp
L76	Button illumination bulb
R47	Central locking and anti-theft alarm system aerial
T2ba	2-pin connector, behind right headlight
T4nj	4-pin connector
T6ao	6-pin connector
T8t	8-pin connector
T10s	10-pin connector
T12m	12-pin connector
T18a	18-pin connector
279	Earth connection 5, in interior wiring harness
685	Earth point 1 at front of right longitudinal member
A144	Connection (interior monitoring) in dash panel wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B559	Positive connection 1 (30g) in main wiring harness

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Convenience system central control unit, Rear left door lock unit

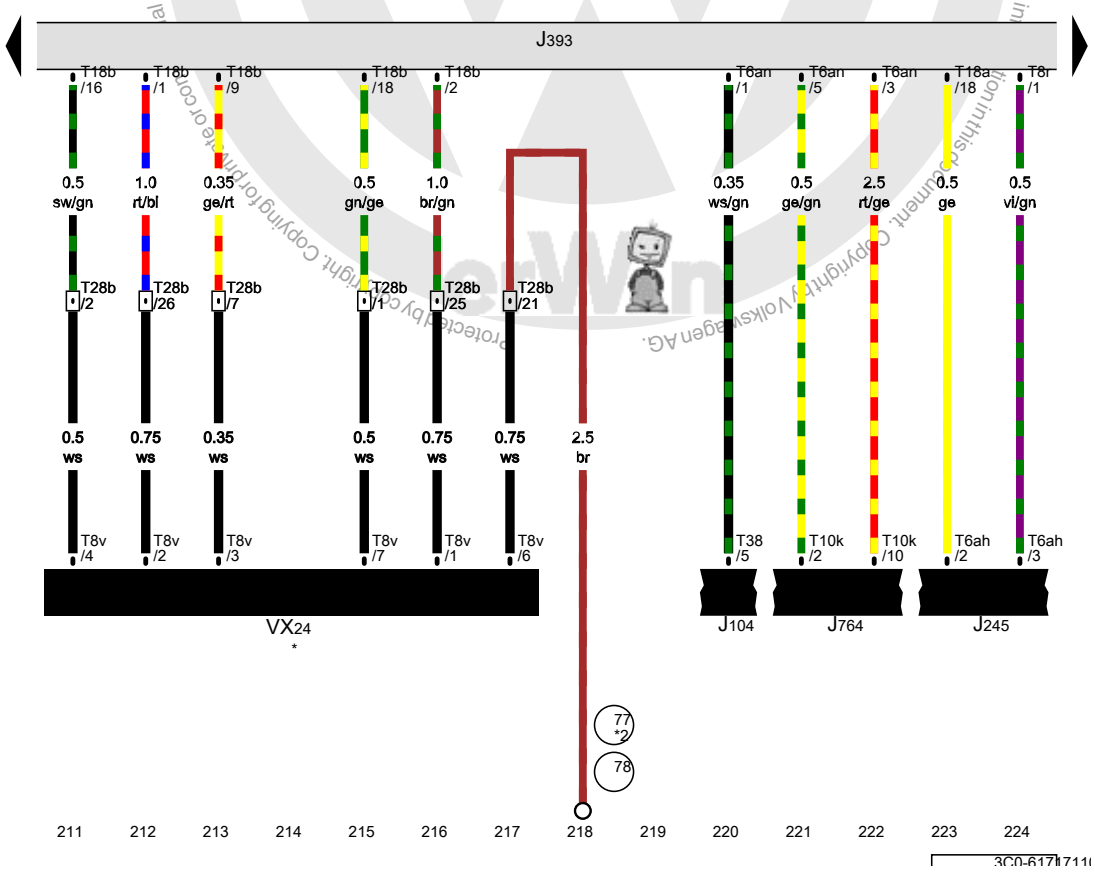
J393	Convenience system central control unit
T8u	8-pin connector
T18a	18-pin connector
T18b	18-pin connector
T28a	28-pin connector, on left B-pillar
VX23	Rear left door lock unit
77	Earth point, lower part of left B-pillar
78	Earth point, lower part of right B-pillar
378	Earth connection 13, in main wiring harness
*	Only vehicles without electric window regulators
*2	Only right-hand drive models



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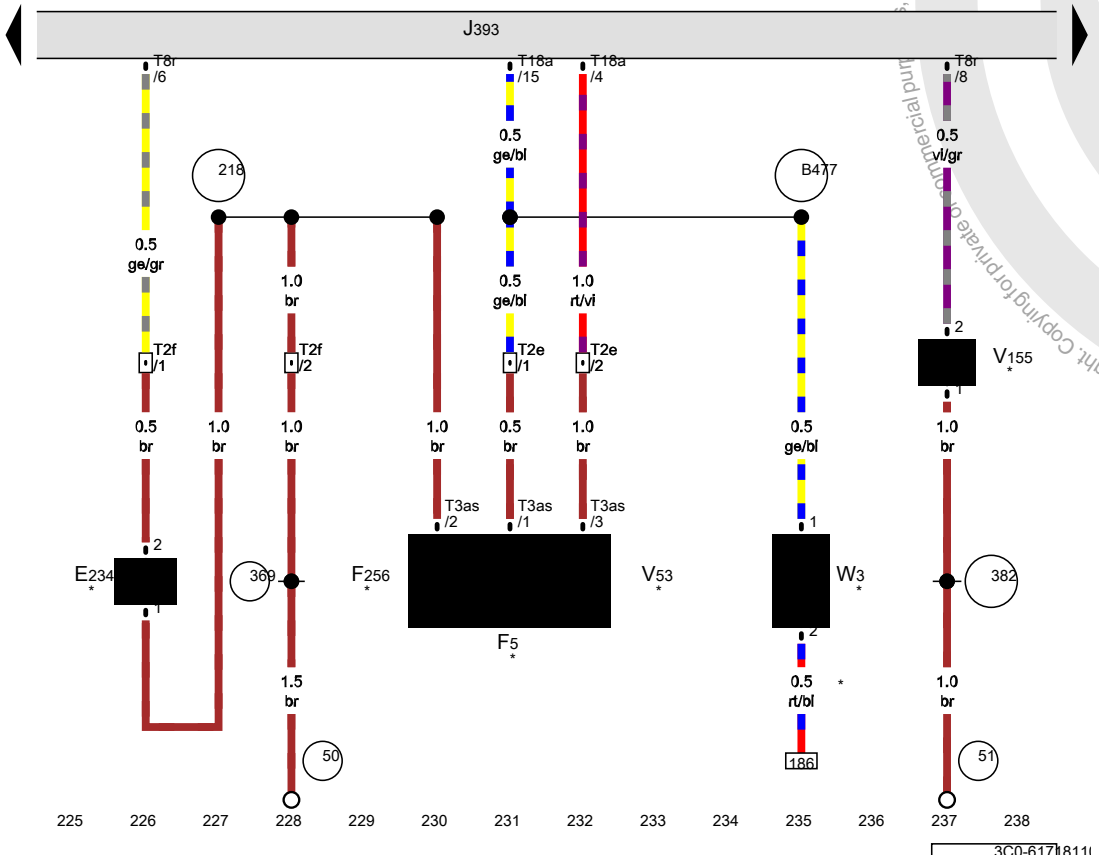
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Convenience system central control unit, Rear right door lock unit

J104	ABS control unit
J245	Sliding sunroof adjustment control unit
J393	Convenience system central control unit
J764	Electronic steering column lock control unit
T6ah	6-pin connector
T6an	6-pin connector
T8r	8-pin connector
T8v	8-pin connector
T10k	10-pin connector
T18a	18-pin connector
T18b	18-pin connector
T28b	28-pin connector, on right B-pillar
T38	38-pin connector
VX24	Rear right door lock unit
77	Earth point, lower part of left B-pillar
78	Earth point, lower part of right B-pillar
*	Only vehicles without electric window regulators
*2	Only right-hand drive models

Rear lid handle release button, Luggage compartment light switch, Rear lid lock unit, Convenience system central control unit, Rear lid central locking motor, Tank filler flap locking motor, Luggage compartment light

E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
T2e	2-pin connector, Coupling point for rear lid
T2f	2-pin connector, Coupling point for rear lid
T3as	3-pin connector
T8r	8-pin connector
T18a	18-pin connector
V53	Rear lid central locking motor
V155	Tank filler flap locking motor
W3	Luggage compartment light
50	Earth point, on left in luggage compartment
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
369	Earth connection 4, in main wiring harness
382	Earth connection 17, in main wiring harness
B477	Connection 13, in main wiring harness
*	Saloon

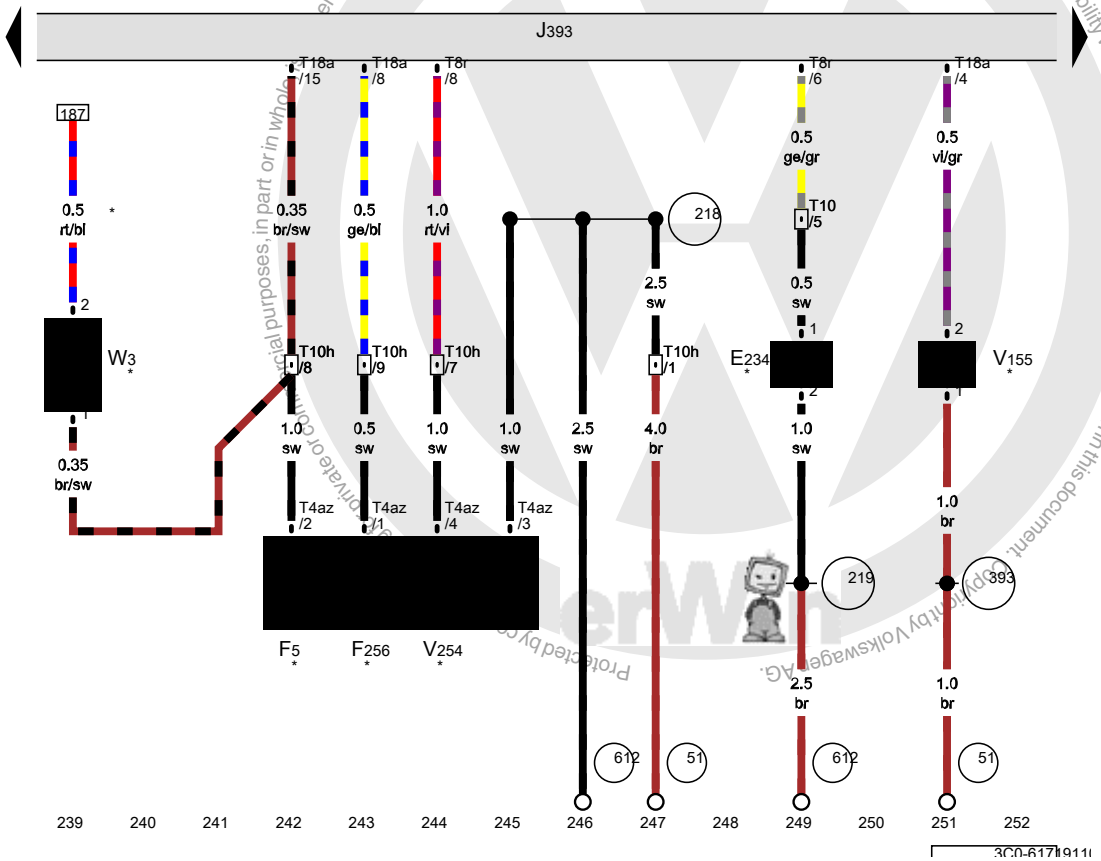


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Rear lid handle release button, Luggage compartment light switch, Rear lid lock unit, Convenience system central control unit, Tank filler flap locking motor, Rear lid electric release motor, Luggage compartment light

E234	Rear lid handle release button
F5	Luggage compartment light switch
F256	Rear lid lock unit
J393	Convenience system central control unit
T4az	4-pin connector
T8r	8-pin connector
T10	10-pin connector
T10h	10-pin connector, Coupling point for rear lid
T18a	18-pin connector
V155	Tank filler flap locking motor
V254	Rear lid electric release motor
W3	Luggage compartment light
51	Earth point, on right in luggage compartment
218	Earth connection 1, in rear lid wiring harness
219	Earth connection 2, in rear lid wiring harness
393	Earth connection 28, in main wiring harness
612	Earth point, centre on rear lid
*	Variant

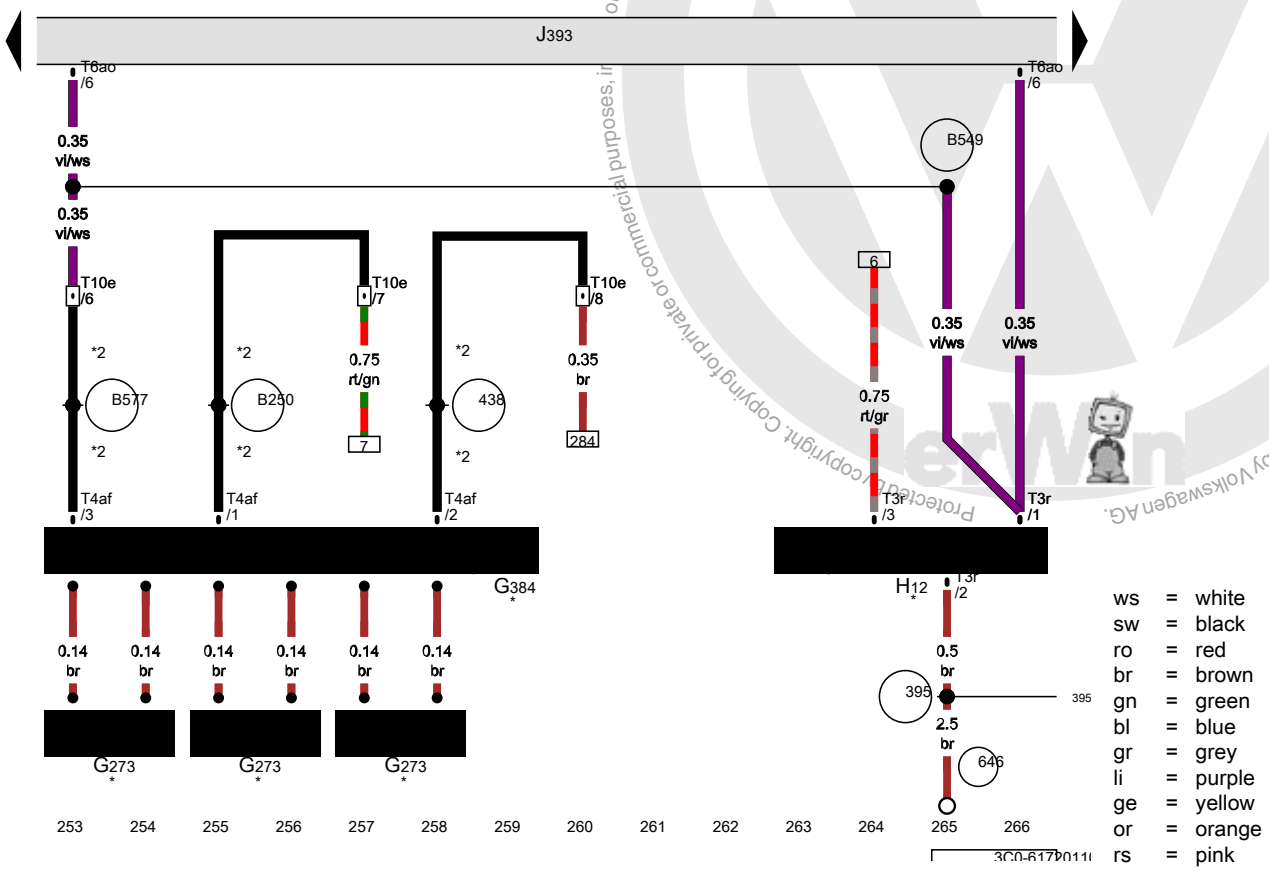


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Interior monitoring sensor, Interior monitor send and receive module 1, Vehicle inclination sender, Alarm horn, Convenience system central control unit

G273	Interior monitoring sensor
G303	Interior monitor send and receive module 1
G384	Vehicle inclination sender
H12	Alarm horn
J393	Convenience system central control unit
T3r	3-pin connector
T4af	4-pin connector
T6ao	6-pin connector
T10e	10-pin connector, in roof
395	Earth connection 30, in main wiring harness
438	Earth connection 3, in roof wiring harness
646	Earth point 2, on bulkhead
B250	Positive connection, in roof wiring harness
B549	Connection 2 (LIN bus) in main wiring harness
B577	LIN bus connection, in roof wiring harness
*	Not for American markets
*2	Flat conductor

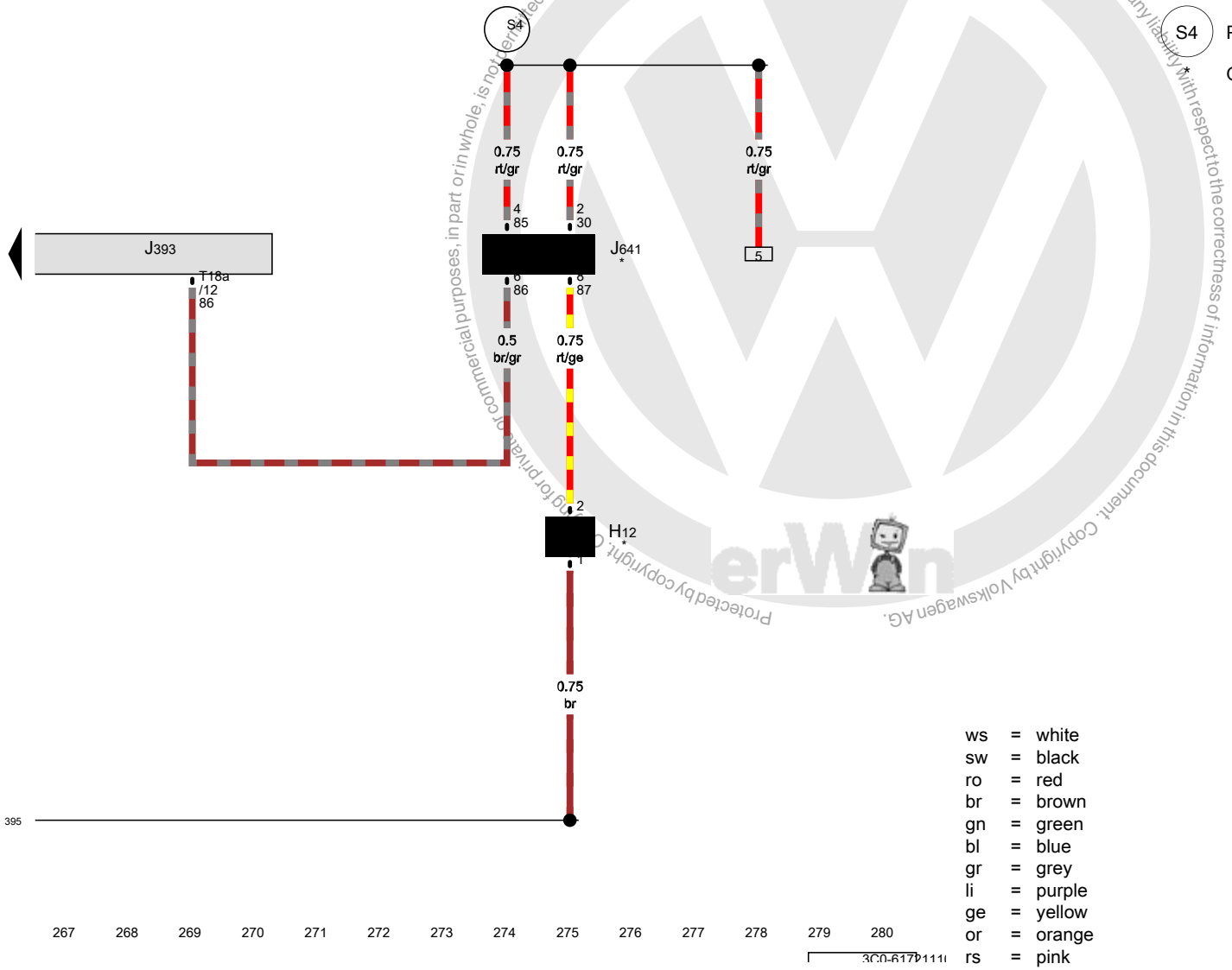


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or	=	orange
rs	=	pink

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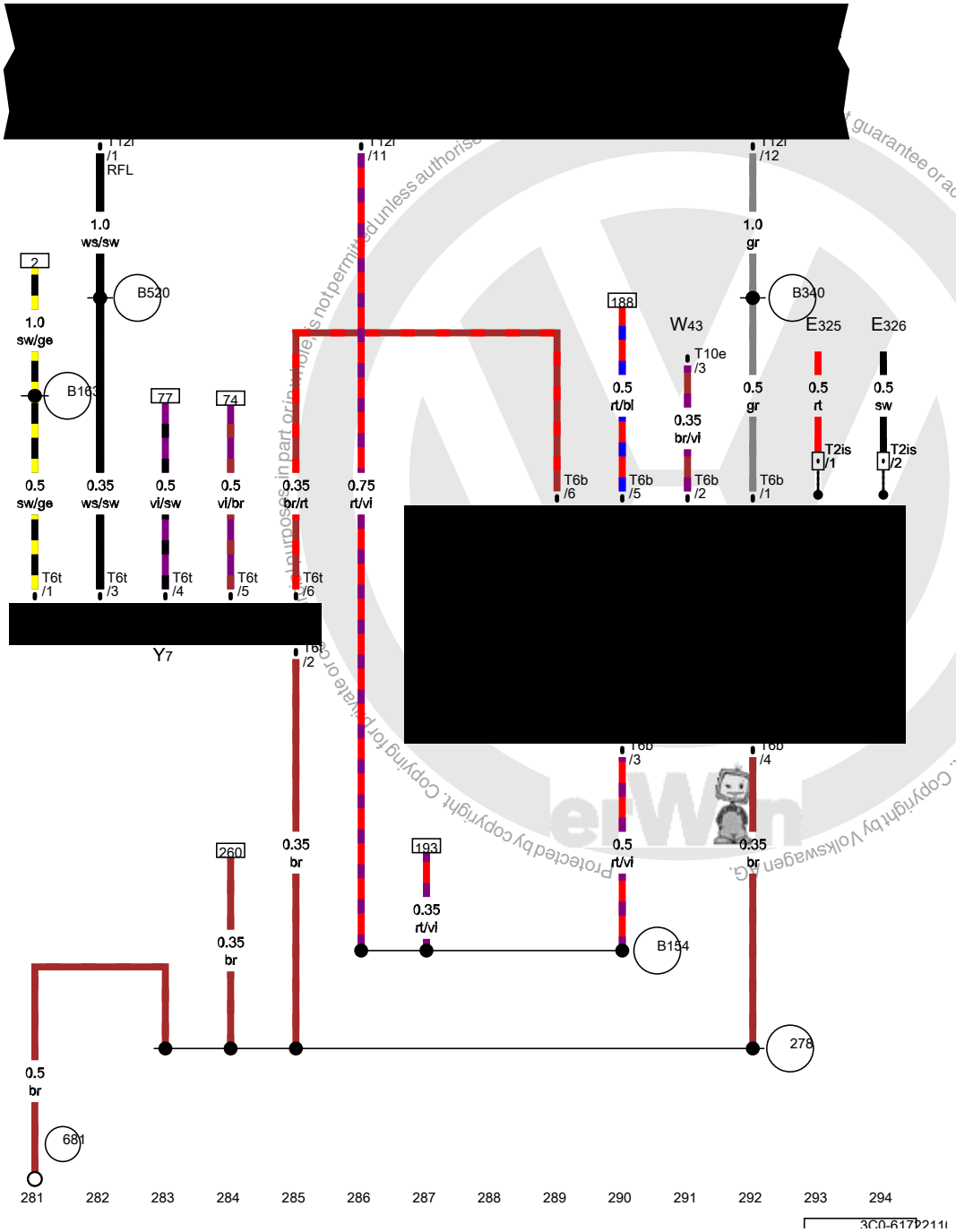
Alarm horn, Convenience system central control unit, Alarm horn relay

H12	Alarm horn
J393	Convenience system central control unit
J641	Alarm horn relay
T18a	18-pin connector
395	Earth connection 30, in main wiring harness
S4	Positive connection (30) 2, in central locking wiring harness
*	Only for American markets



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Onboard supply control unit, Front interior light, Automatic anti-dazzle interior mirror

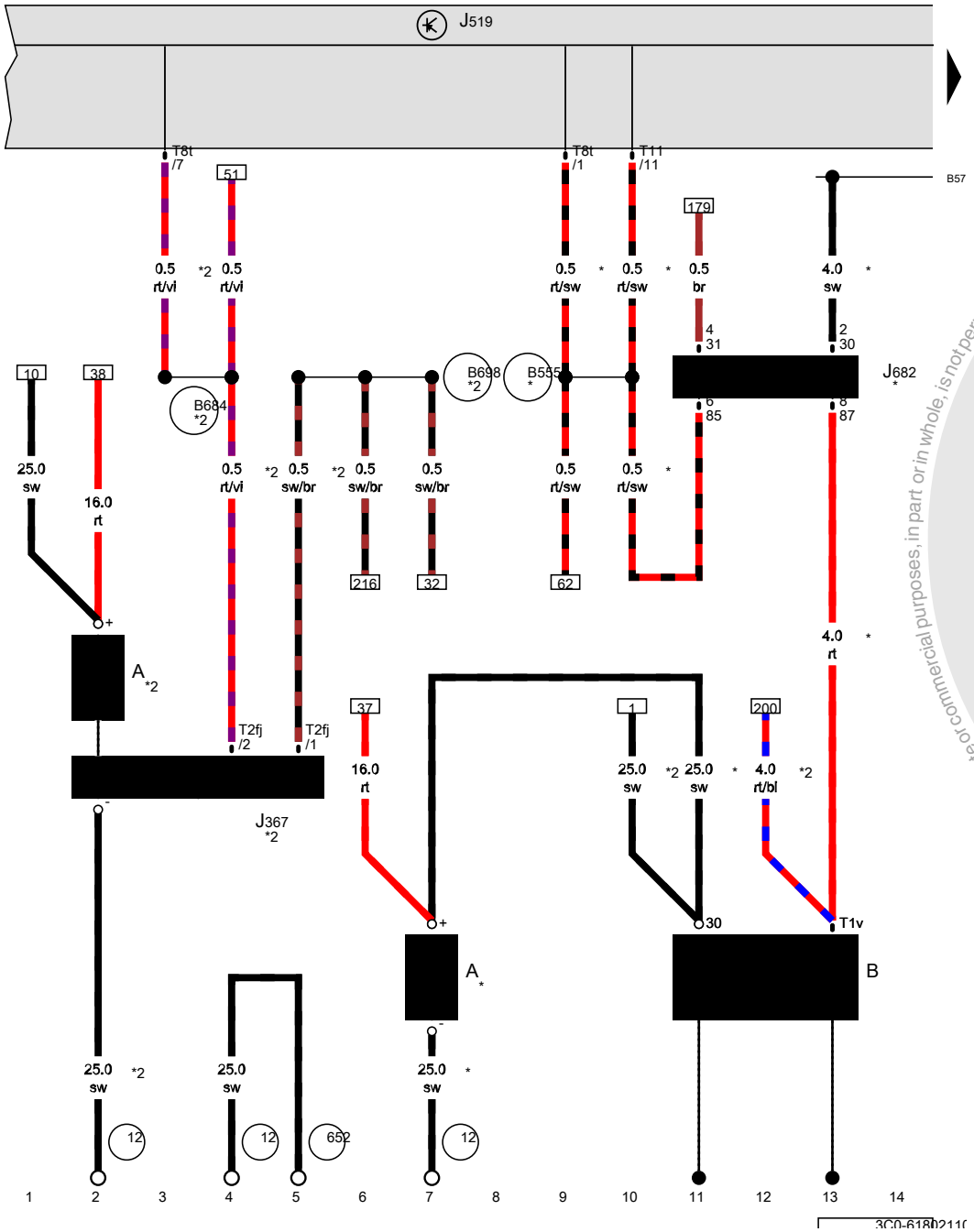
E325	Sunroof button
E326	Front interior light button
E457	Driver side reading light button
E458	Front passenger side reading light button
J519	Onboard supply control unit
T2is	2-pin connector
T6b	6-pin connector
T6t	6-pin connector
T10e	10-pin connector
T12i	12-pin connector
W1	Front interior light
W39	Left centre reading light
W40	Right centre reading light
W43	Rear interior light
Y7	Automatic anti-dazzle interior mirror
278	Earth connection 4, in interior wiring harness
681	Earth point 1, in rear right side panel
B154	Connection 1 (DCt), in interior wiring harness
B163	Positive connection 1 (15), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B520	Connection (RL), in main wiring harness

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1.6l diesel engine with start/stop system , CAYC

From November 2009

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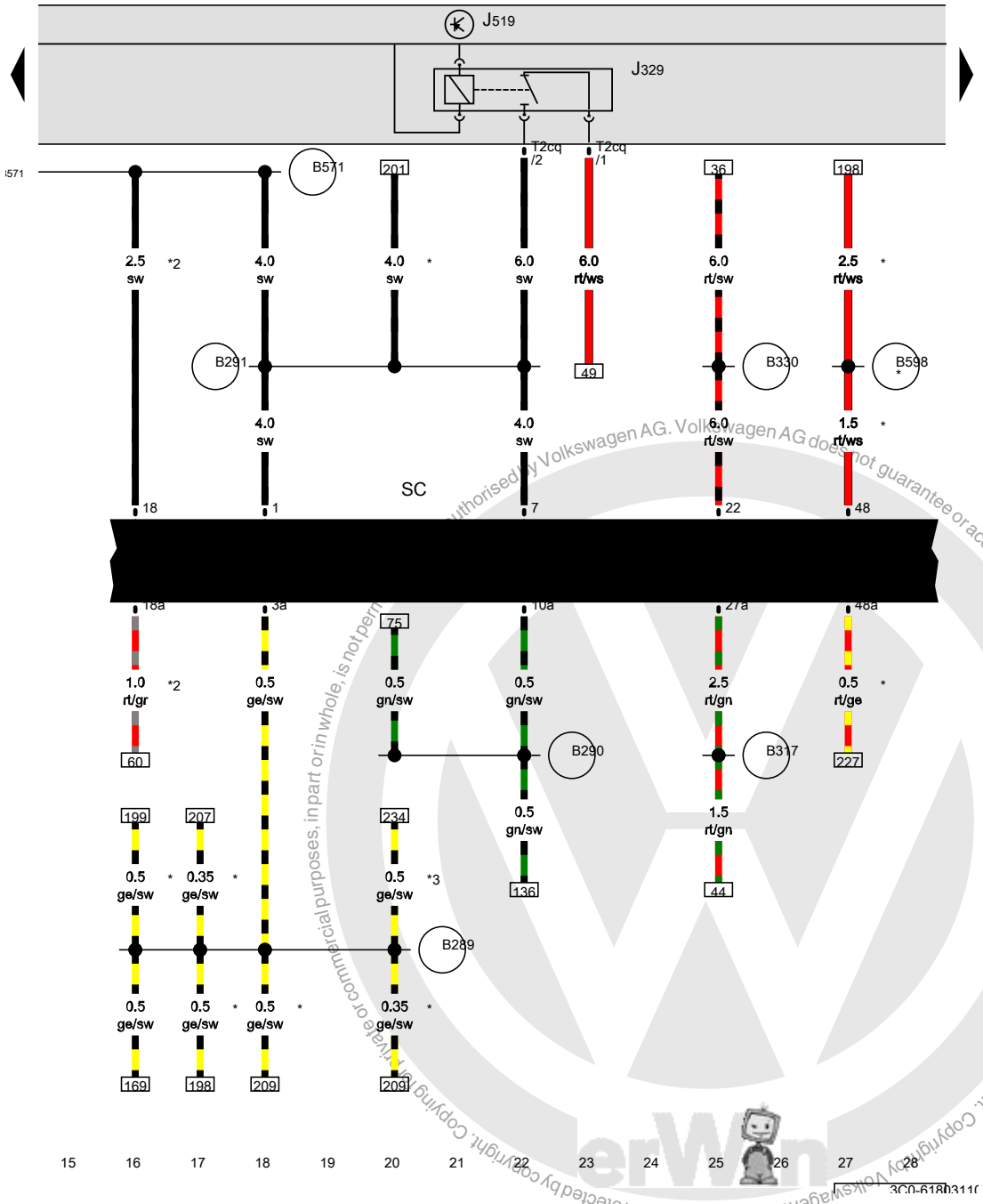


Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay

A	Battery
B	Starter
J367	Battery monitor control unit
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay
T1ac	Single connector
T1v	Single connector
T2fj	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
652	Earth point, engine and gearbox earth
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
B684	Positive connection 24 (30a) in main wiring harness
B698	Connection 3 (LIN bus) in main wiring harness
*	Only models with no start/stop system
*2	Only models with stop/start system

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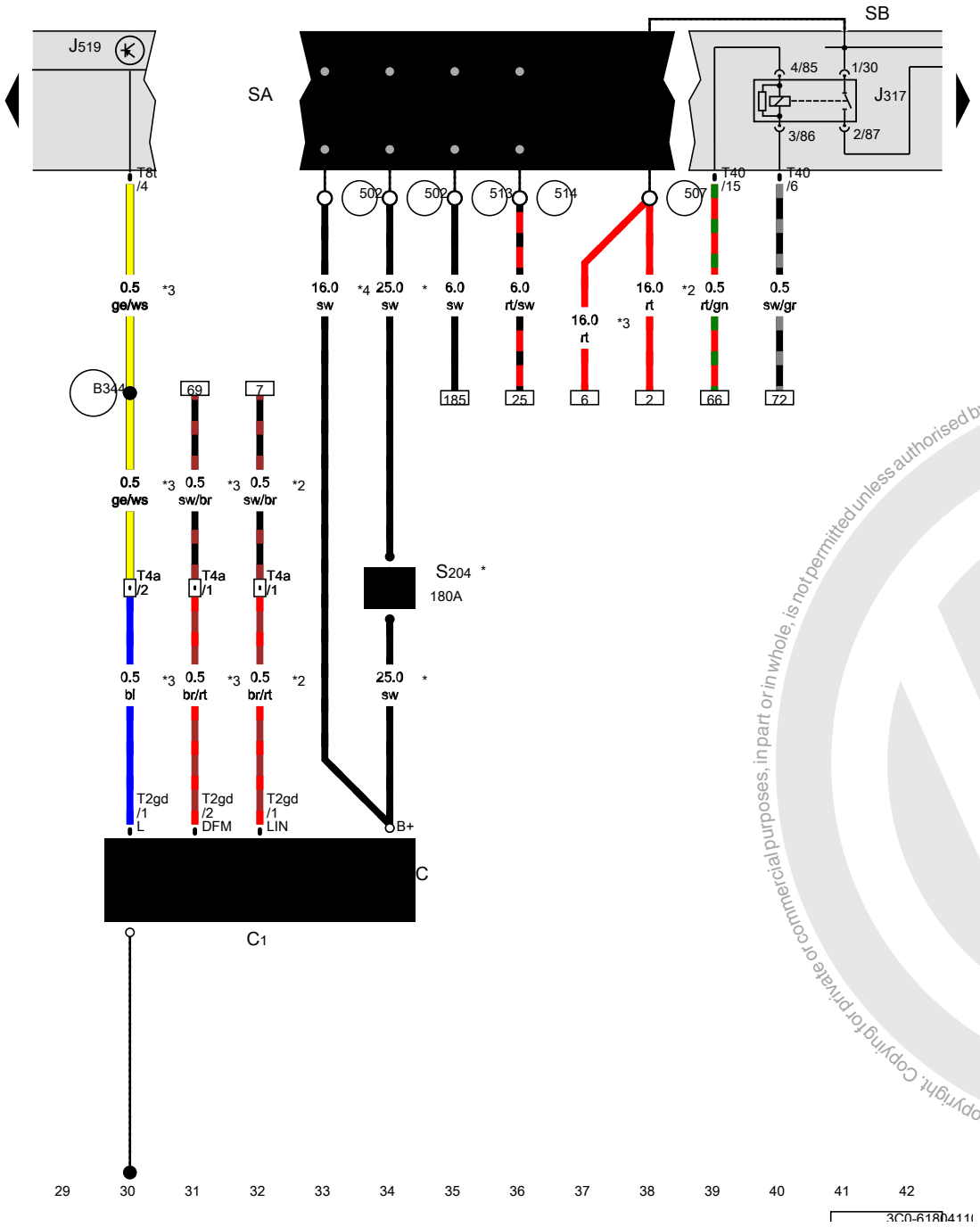


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Terminal 15 voltage supply relay, Onboard supply control unit, Fuse holder C

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SC	Fuse holder C
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
SC48	Fuse 48 on fuse holder C
T2cq	2-pin connector
B289	Positive connection 13 (15a) in main wiring harness
B290	Positive connection 14 (15a) in main wiring harness
B291	Positive connection 15 (15a) in main wiring harness
B317	Positive connection 3 (30a) in main wiring harness
B330	Positive connection 16 (30a) in main wiring harness
B571	Connection 38, in main wiring harness
B598	Positive connection 11 (30a), in interior wiring harness
*	Only models with stop/start system
*2	Only for countries with cold climate
*3	Only models with extended servicing intervals (ESI)

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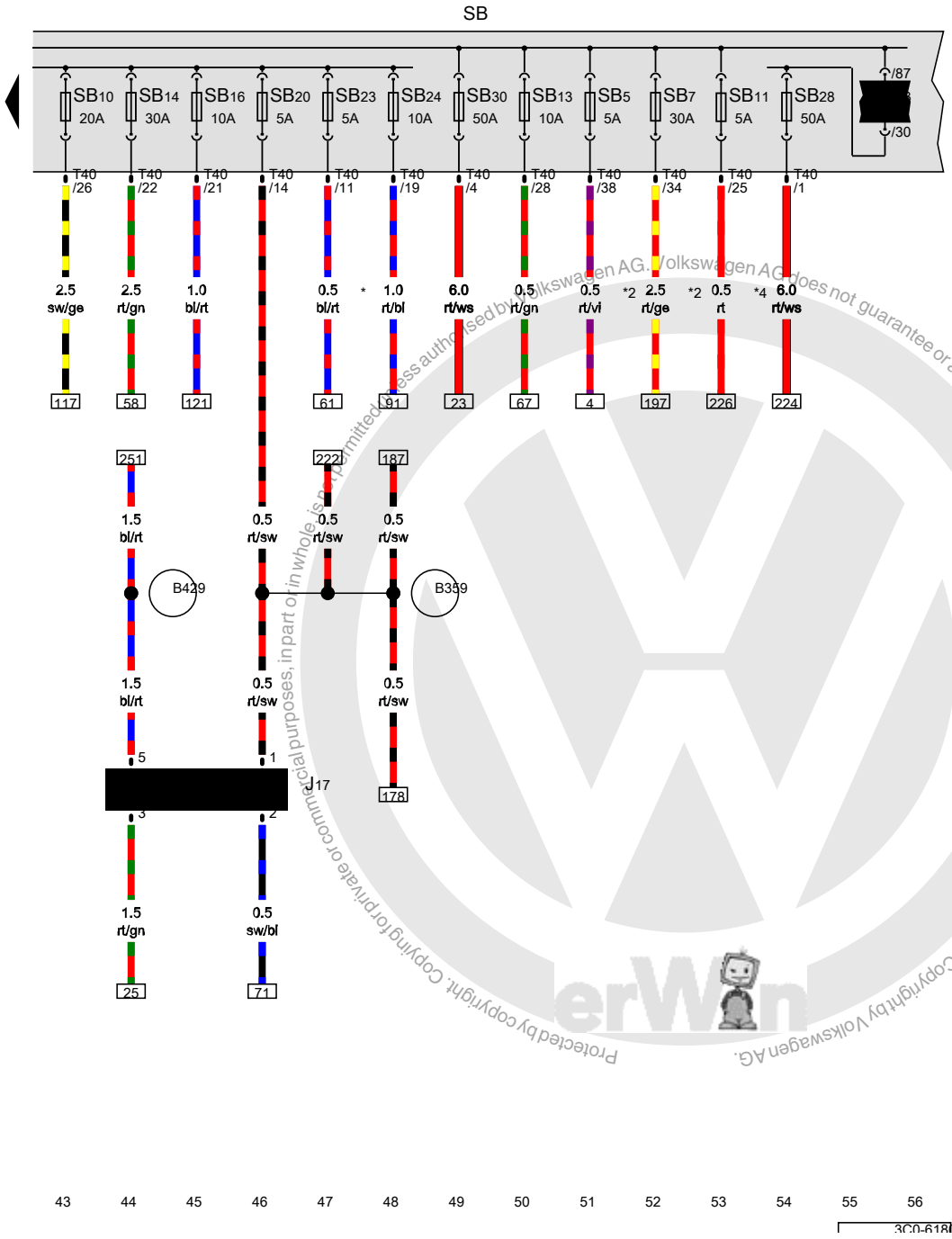


Alternator, Terminal 30 voltage supply relay, Onboard supply control unit, Fuse holder A, Fuse holder B

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
SA1	Fuse 1 in fuse holder A
SA3	Fuse 3 in fuse holder A
SA4	Fuse 4 in fuse holder A
S204	Fuse 1 (30)
SA	Fuse holder A
SB	Fuse holder B
T1ac	Single connector
T2gd	2-pin connector
T2xr	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B344	Connection 1 (61), in main wiring harness
*	According to equipment
*2	Only models with stop/start system
*3	Only models with no start/stop system
*4	Only models with 140A alternator

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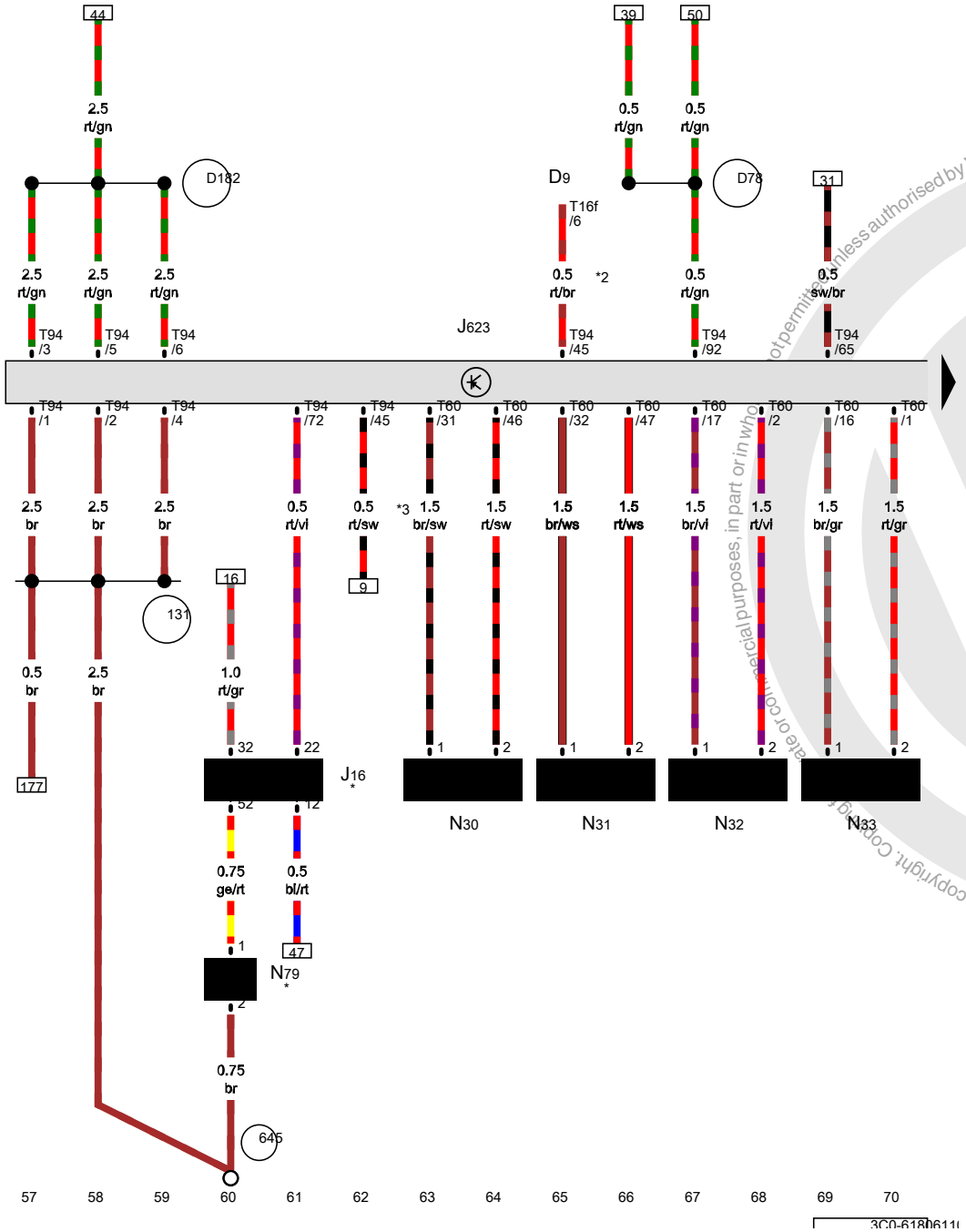


Fuel pump relay, Fuse holder B

J17	Fuel pump relay
SB	Fuse holder B
SB5	Fuse 5 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB10	Fuse 10 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T40	40-pin connector
B359	Positive connection 10 (87a) in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only for countries with cold climate
*2	Only models with stop/start system
*3	Push-in bridge on relay slot
*4	Only models with no start/stop system

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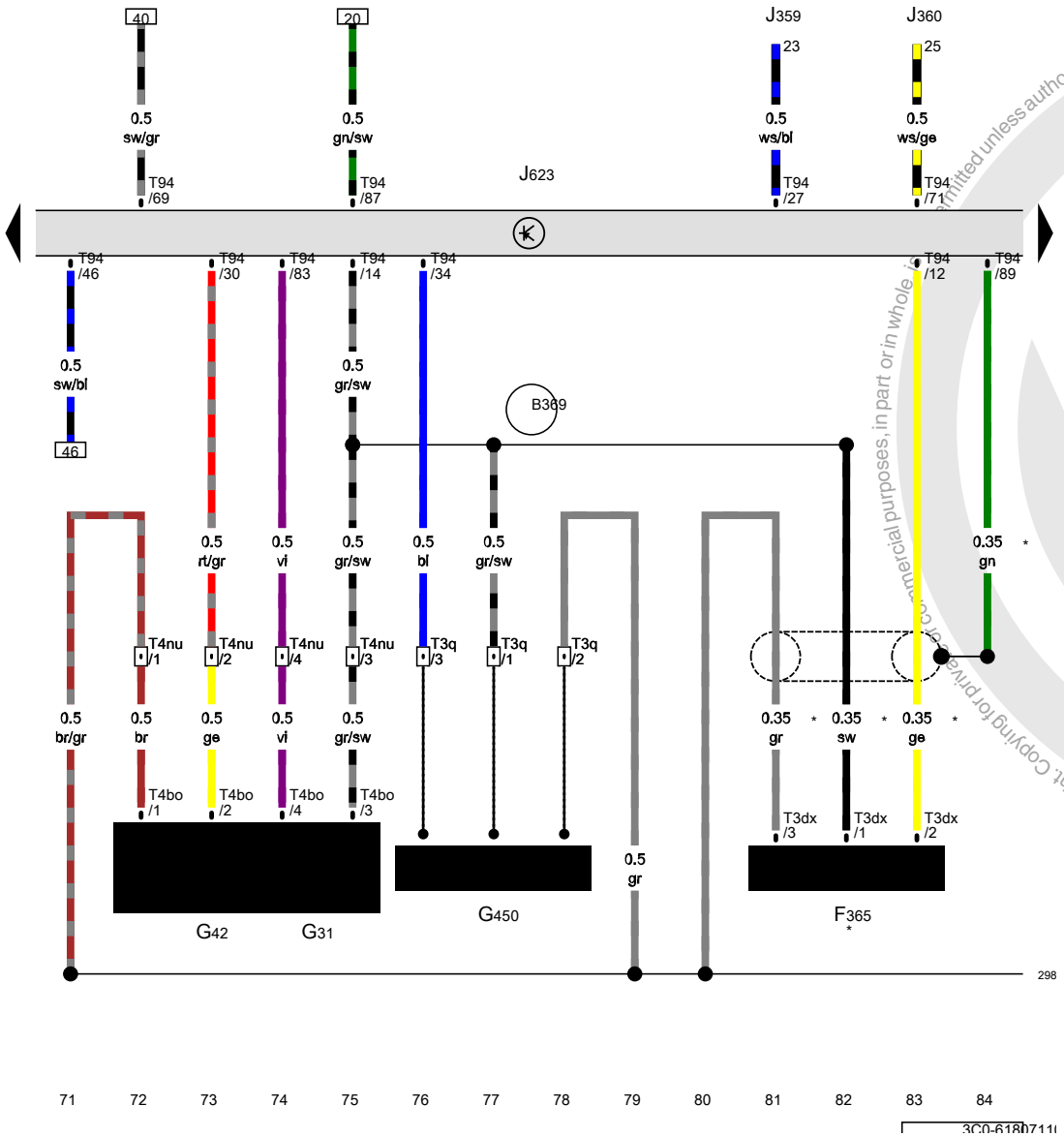
Electronic ignition lock, Current supply relay, Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4, Heater element for crankcase breather

D9	Electronic ignition lock
J16	Current supply relay
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
N79	Heater element for crankcase breather
T16f	16-pin connector
T60	60-pin connector
T94	94-pin connector
131	Earth connection 2, in engine compartment wiring harness
645	Earth point 1, on bulkhead
D78	Positive connection 1 (30a), in engine compartment wiring harness
D182	Connection 3 (87a), in engine compartment wiring harness
*	Only for countries with cold climate
*2	Only models with stop/start system
*3	Only models with no start/stop system

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Gearbox neutral position switch, Charge pressure sender, Intake air temperature sender, Exhaust gas pressure sensor 1, Low heat output relay, High heat output relay, Engine control unit



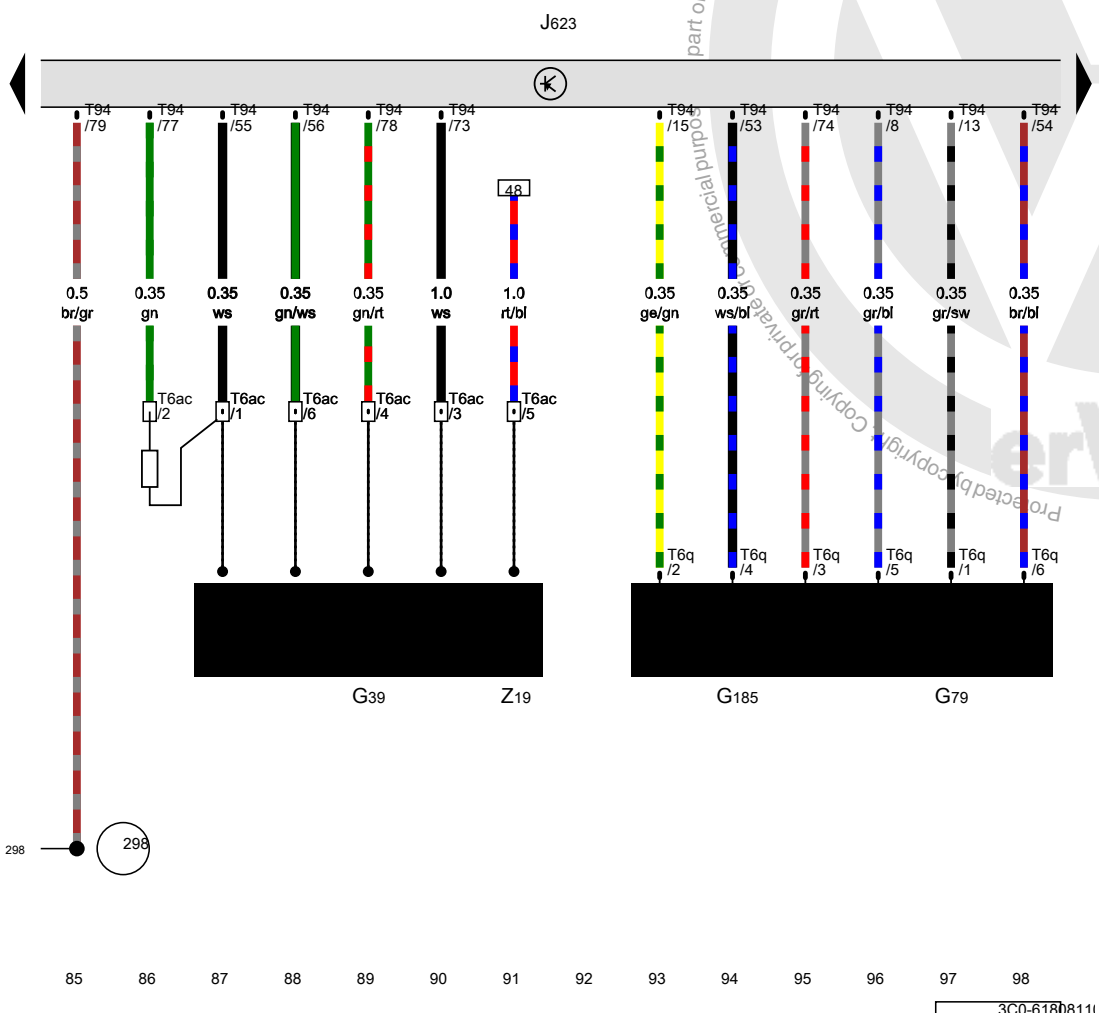
F365	Gearbox neutral position switch
G31	Charge pressure sender
G42	Intake air temperature sender
G450	Exhaust gas pressure sensor 1
J359	Low heat output relay
J360	High heat output relay
J623	Engine control unit
T3dx	3-pin connector
T3q	3-pin connector, black
T4bo	4-pin connector
T4nu	4-pin connector, black
T94	94-pin connector
298	Earth connection 13, in interior wiring harness
B369	Connection 1 (5V), in main wiring harness
*	Only models with stop/start system

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Lambda probe, Accelerator position sender, Engine control unit

G39	Lambda probe
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T6ac	6-pin connector, near Lambda probe
T6q	6-pin connector
T94	94-pin connector
Z19	Lambda probe heater
(298)	Earth connection 13, in interior wiring harness

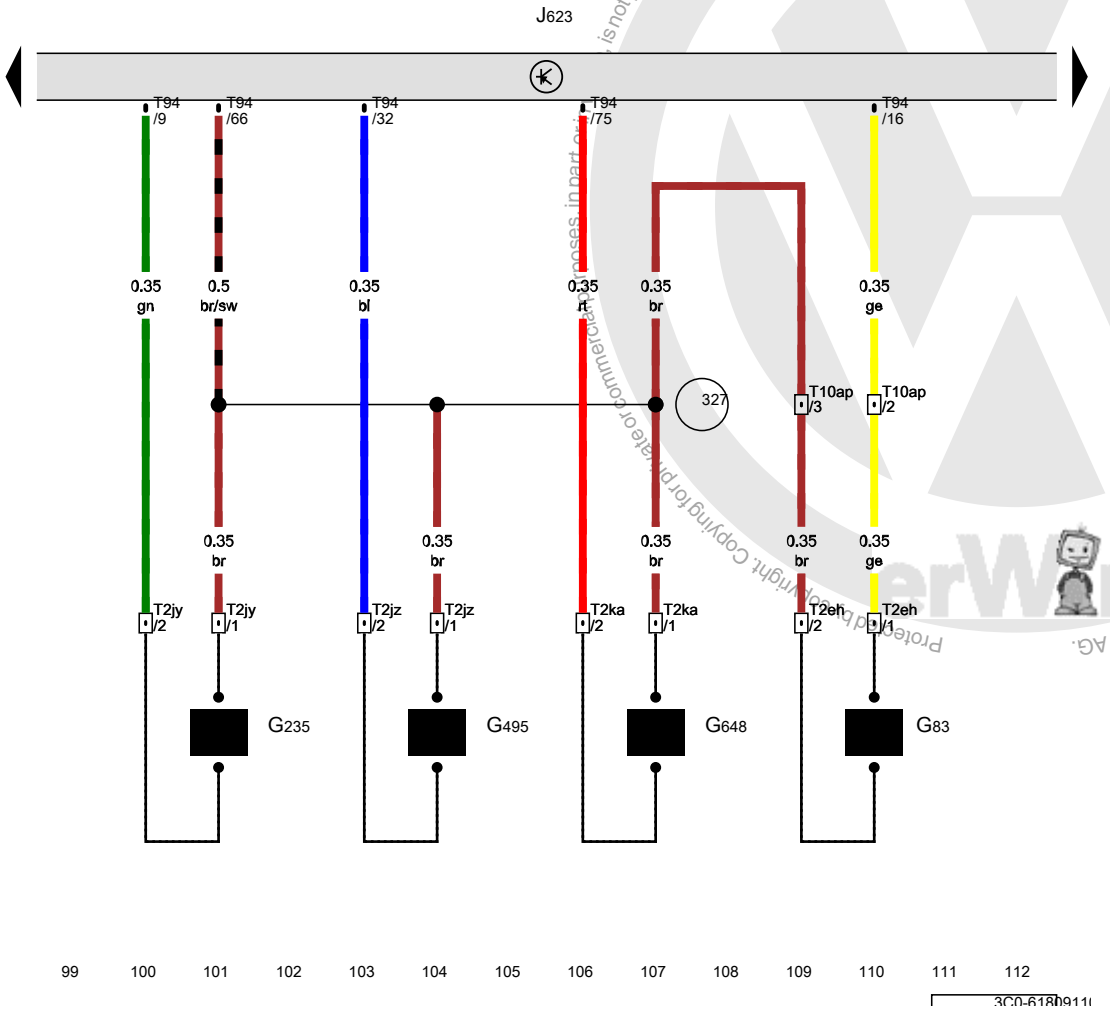


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Radiator outlet coolant temperature sender, Exhaust gas temperature sender 1, Exhaust gas temperature sender 3, Exhaust gas temperature sender 4, Engine control unit

G83	Radiator outlet coolant temperature sender
G235	Exhaust gas temperature sender 1
G495	Exhaust gas temperature sender 3
G648	Exhaust gas temperature sender 4
J623	Engine control unit
T2eh	2-pin connector
T2jy	2-pin connector, black
T2jz	2-pin connector, brown
T2ka	2-pin connector, dark brown
T10ap	10-pin connector, near left headlight
T94	94-pin connector
327	Earth connection (sender earth), in engine compartment wiring harness

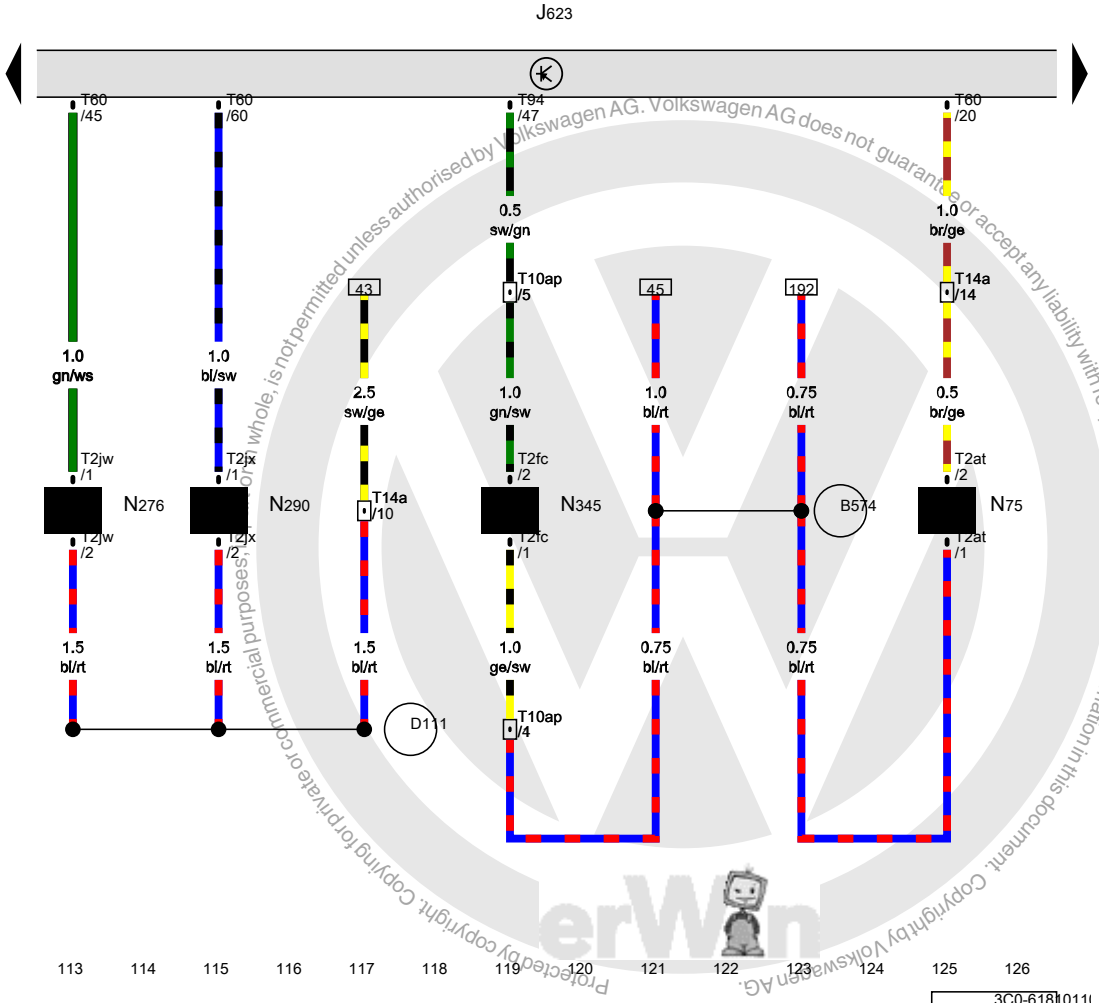


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Engine control unit, Charge pressure control solenoid valve, Fuel pressure regulating valve, Fuel metering valve, Exhaust gas recirculation cooler changeover valve

J623	Engine control unit
N75	Charge pressure control solenoid valve
N276	Fuel pressure regulating valve
N290	Fuel metering valve
N345	Exhaust gas recirculation cooler changeover valve
T2at	2-pin connector
T2fc	2-pin connector
T2jw	2-pin connector
T2jx	2-pin connector
T10ap	10-pin connector, near left headlight
T14a	14-pin connector, on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Positive connection 20 (87a) in main wiring harness
D111	Connection 9 in engine compartment wiring harness

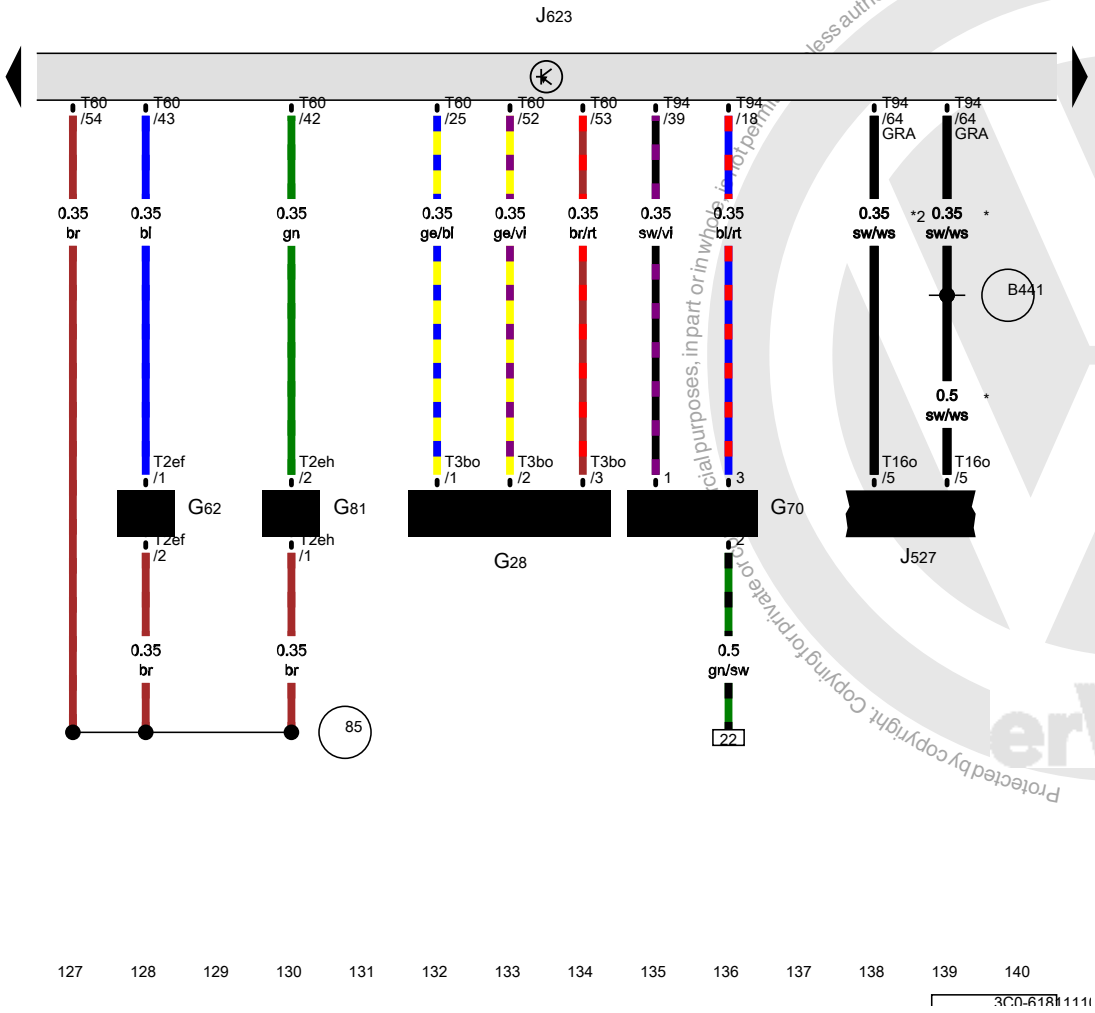


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Engine speed sender, Coolant temperature sender, Air mass meter, Fuel temperature sender, Steering column electronics control unit, Engine control unit

G28	Engine speed sender
G62	Coolant temperature sender
G70	Air mass meter
G81	Fuel temperature sender
J527	Steering column electronics control unit
J623	Engine control unit
T2ef	2-pin connector
T2eh	2-pin connector
T3bo	3-pin connector
T16o	16-pin connector
T60	60-pin connector
T94	94-pin connector
85	Earth connection 1, in engine compartment wiring harness
B441	Connection (CCS), in main wiring harness
*	Only models with adaptive cruise control (ACC)
*2	Only models with cruise control system (CCS)

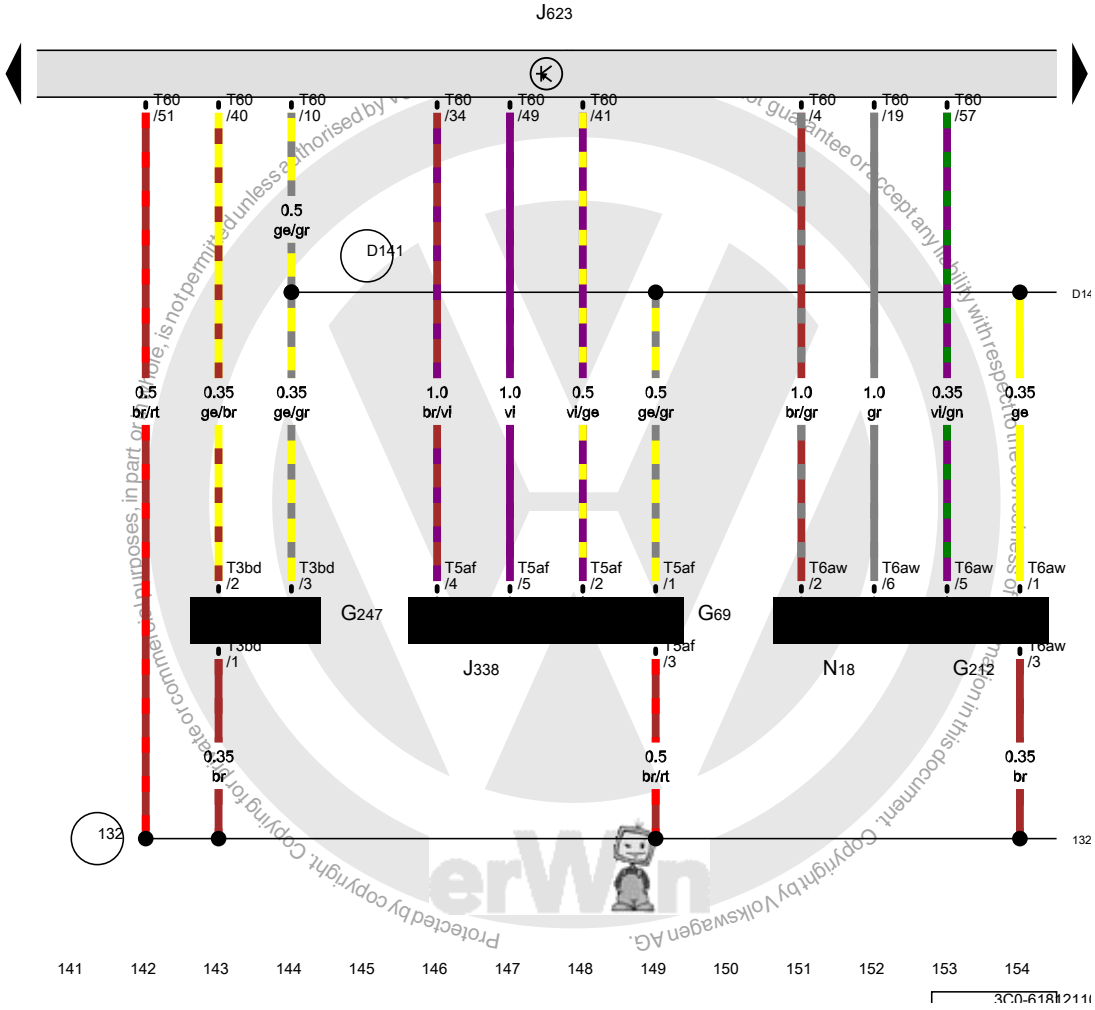


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Throttle valve potentiometer, Exhaust gas recirculation potentiometer, Fuel pressure sender, Throttle valve module, Engine control unit, Exhaust gas recirculation valve

G69	Throttle valve potentiometer
G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
J338	Throttle valve module
J623	Engine control unit
N18	Exhaust gas recirculation valve
T3bd	3-pin connector
T5af	5-pin connector
T6aw	6-pin connector
T60	60-pin connector
132	Earth connection 3, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness

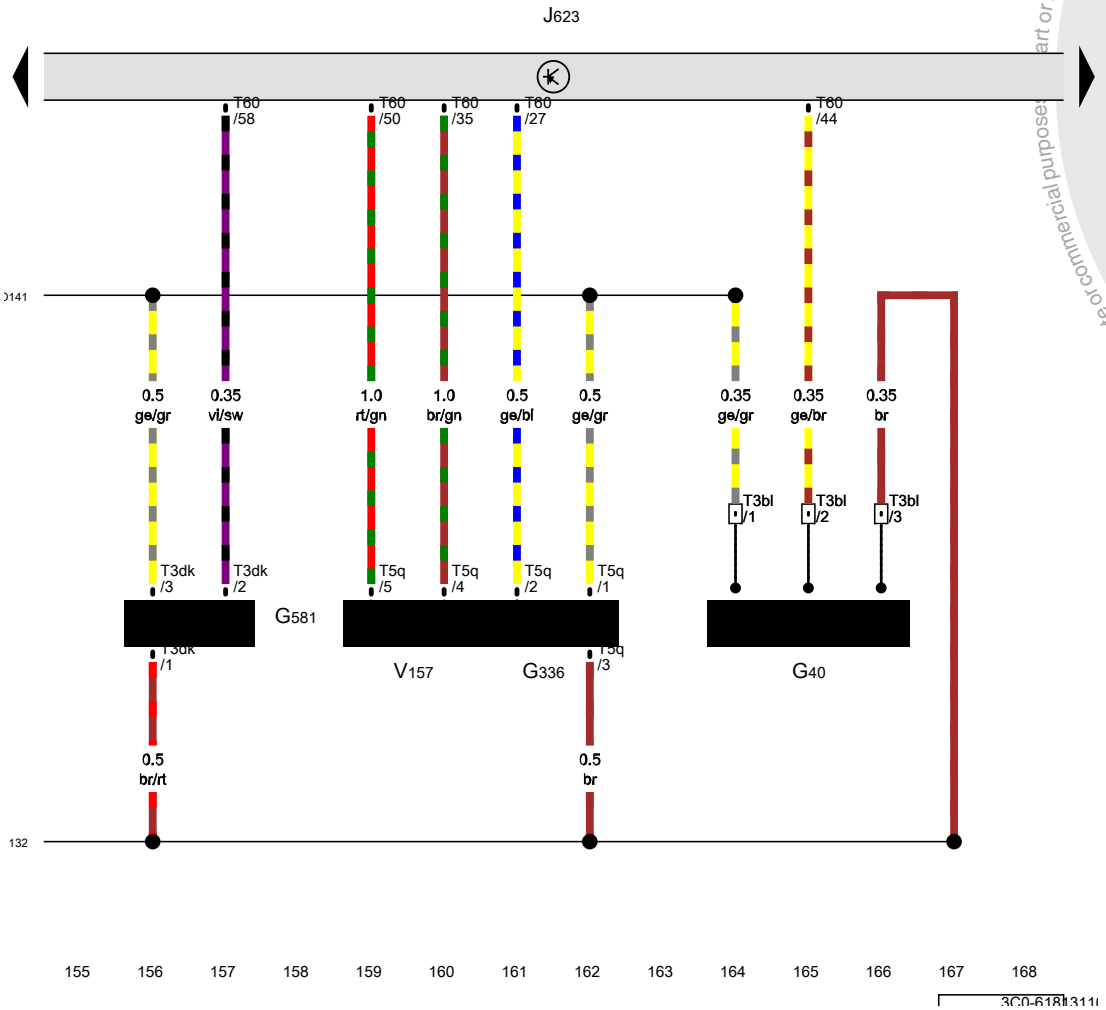


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Hall sender, Intake manifold flap potentiometer, Position sender for charge pressure positioner, Engine control unit, Intake manifold flap motor

G40	Hall sender
G336	Intake manifold flap potentiometer
G581	Position sender for charge pressure positioner
J623	Engine control unit
T3bl	3-pin connector, grey
T3dk	3-pin connector
T5q	5-pin connector
T60	60-pin connector
V157	Intake manifold flap motor
132	Earth connection 3, in engine compartment wiring harness
D141	Connection (5V) in engine prewiring harness

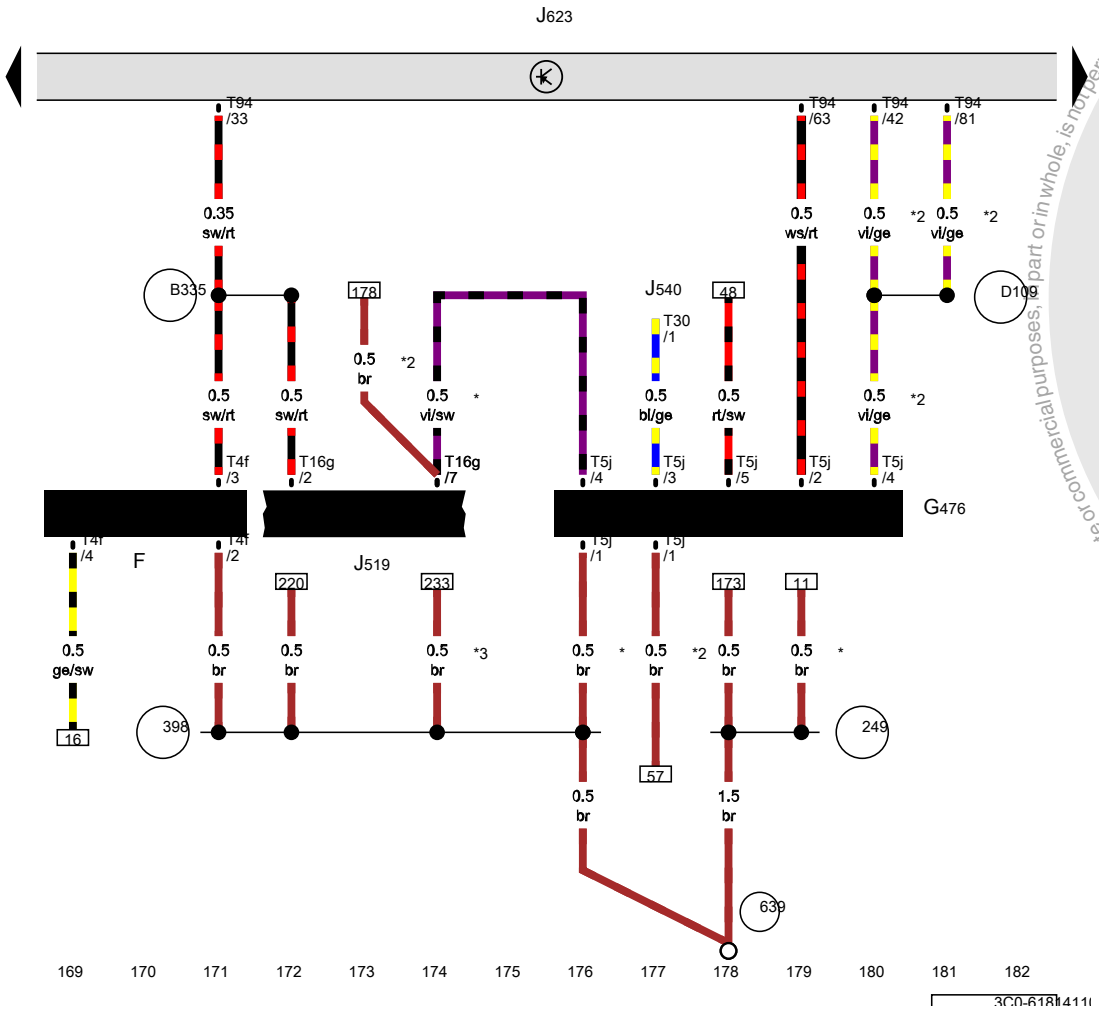


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Brake light switch, Clutch position sender, Onboard supply control unit, Engine control unit

F	Brake light switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T30	30-pin connector
T94	94-pin connector
249	Earth connection 2, in interior wiring harness
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
D109	Connection 7 in engine compartment wiring harness
*	Only models with no start/stop system
*2	Only models with stop/start system
*3	Only models with extended servicing intervals (ESI)

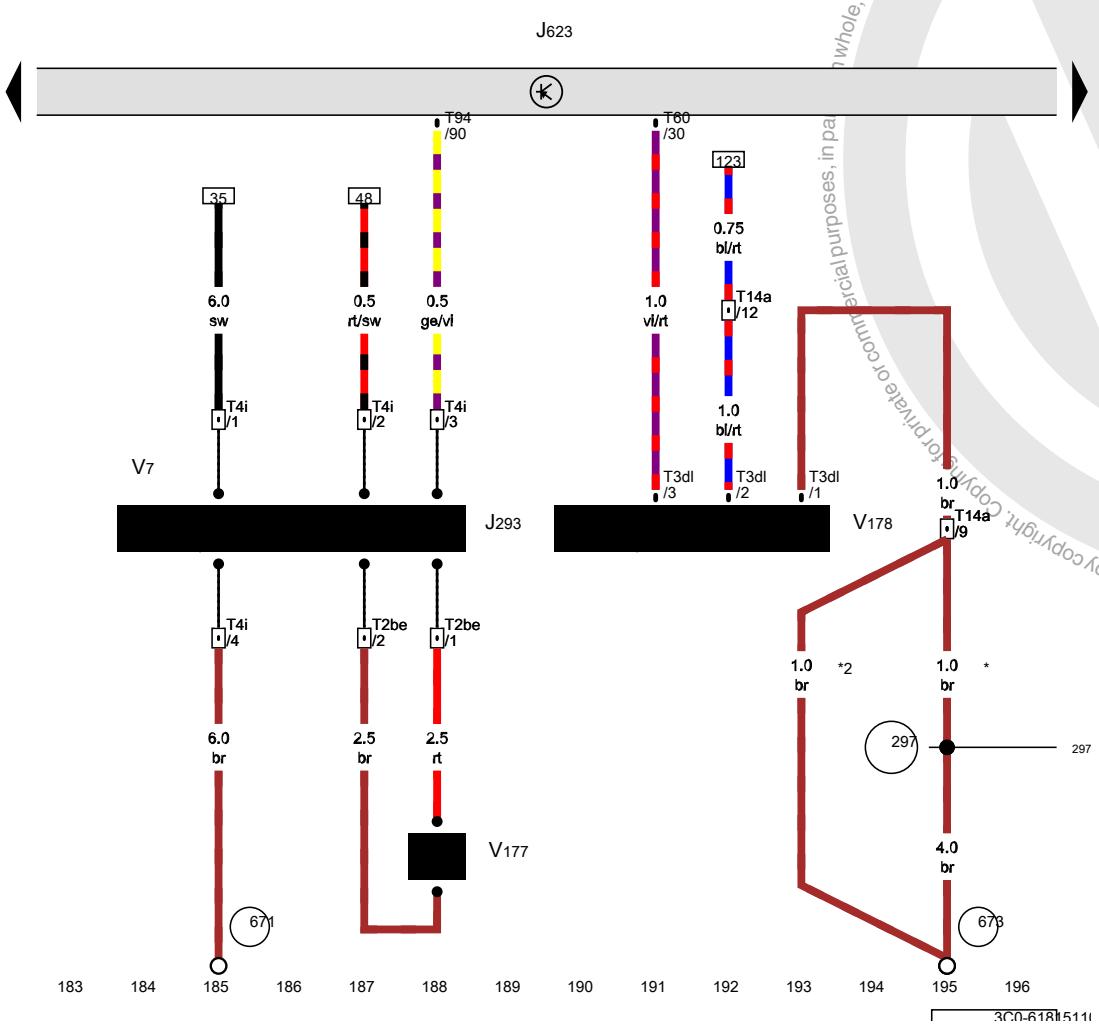


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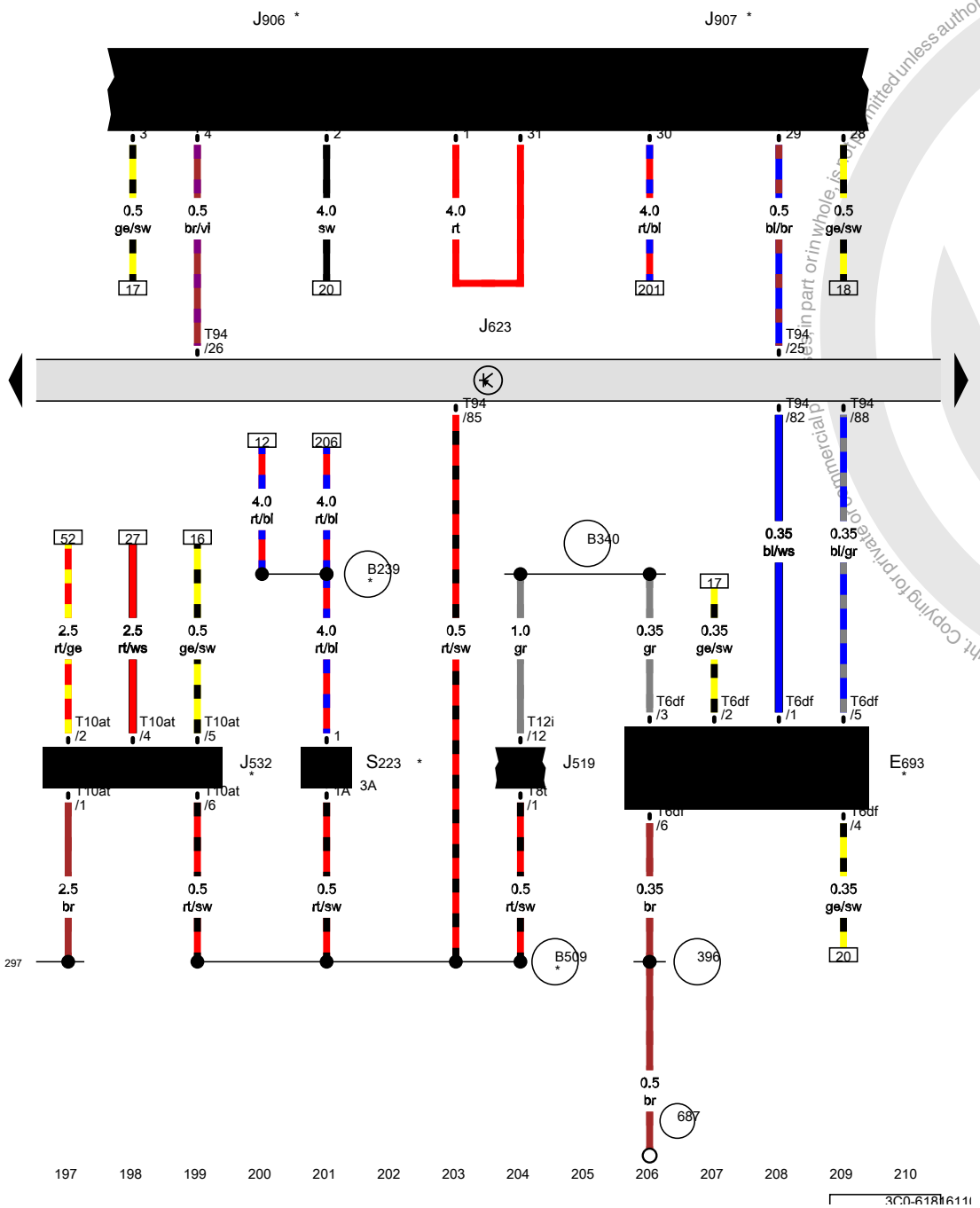
Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2, Coolant circulation pump 2

J293	Radiator fan control unit
J623	Engine control unit
T2be	2-pin connector, on lock carrier
T3dl	3-pin connector
T4i	4-pin connector, on lock carrier
T14a	14-pin connector, on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
V178	Coolant circulation pump 2
297	Earth connection 12, in interior wiring harness
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
*	Only models with stop/start system
*2	Only models with no start/stop system



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Start/Stop operation button, Onboard supply control unit, Voltage stabiliser, Engine control unit, Starter relay 1, Starter relay 2, Fuse in fuse holder

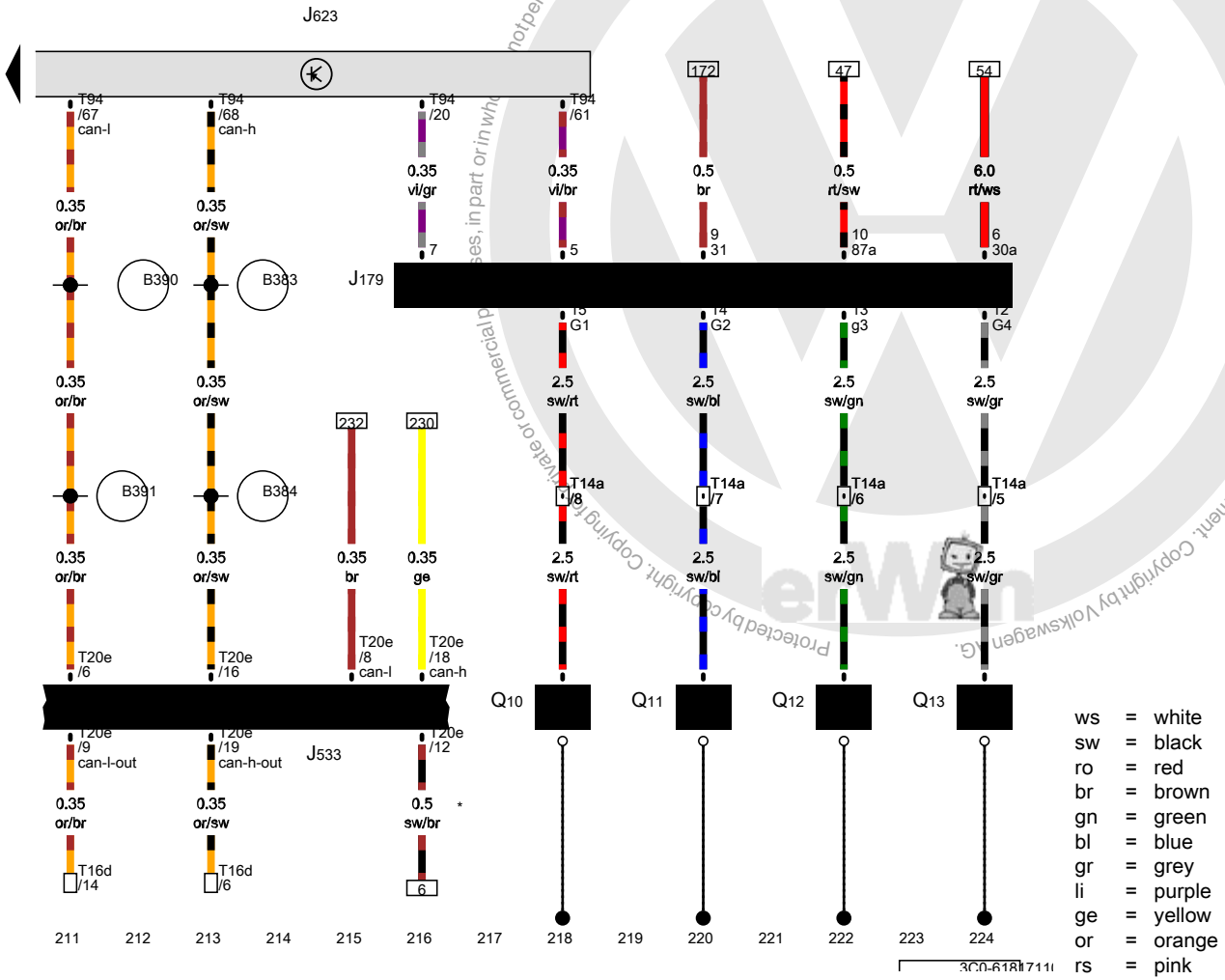
E693	Start/Stop operation button
J519	Onboard supply control unit
J532	Voltage stabiliser
J623	Engine control unit
J906	Starter relay 1
J907	Starter relay 2
L76	Button illumination bulb
S223	Fuse in fuse holder
T6df	6-pin connector
T8t	8-pin connector
T10at	10-pin connector
T12i	12-pin connector
T94	94-pin connector
297	Earth connection 12, in interior wiring harness
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B239	Positive connection 1 (50), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B509	Connection 3 (diagnosis), in main wiring harness
*	Only models with stop/start system

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Automatic glow period control unit, Data bus diagnostic interface, Engine control unit, Glow plug 1, Glow plug 2, Glow plug 3, Glow plug 4

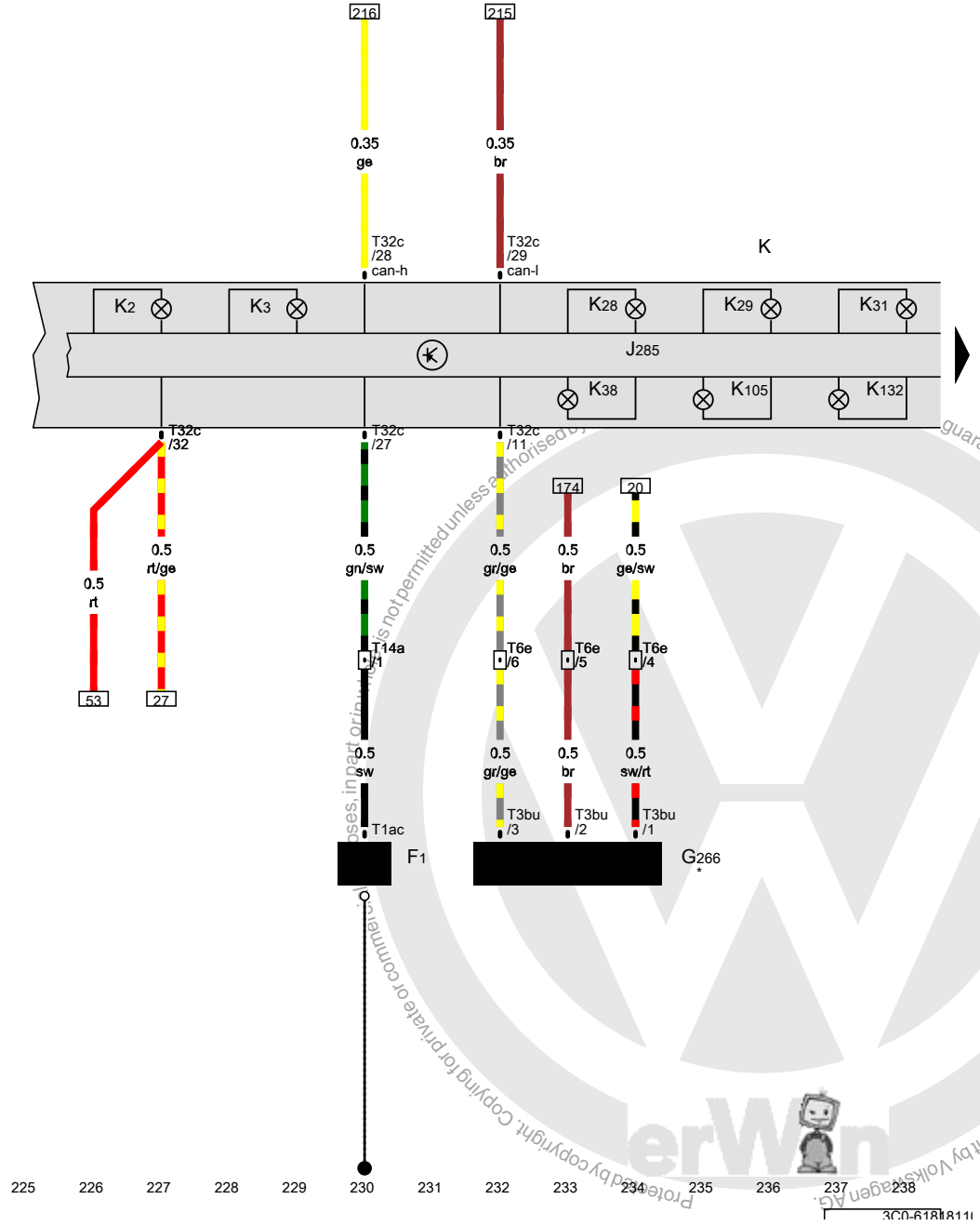
J179	Automatic glow period control unit
J533	Data bus diagnostic interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T14a	14-pin connector, on left in engine compartment
T16d	16-pin connector
T20e	20-pin connector
T94	94-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

* Only models with stop/start system



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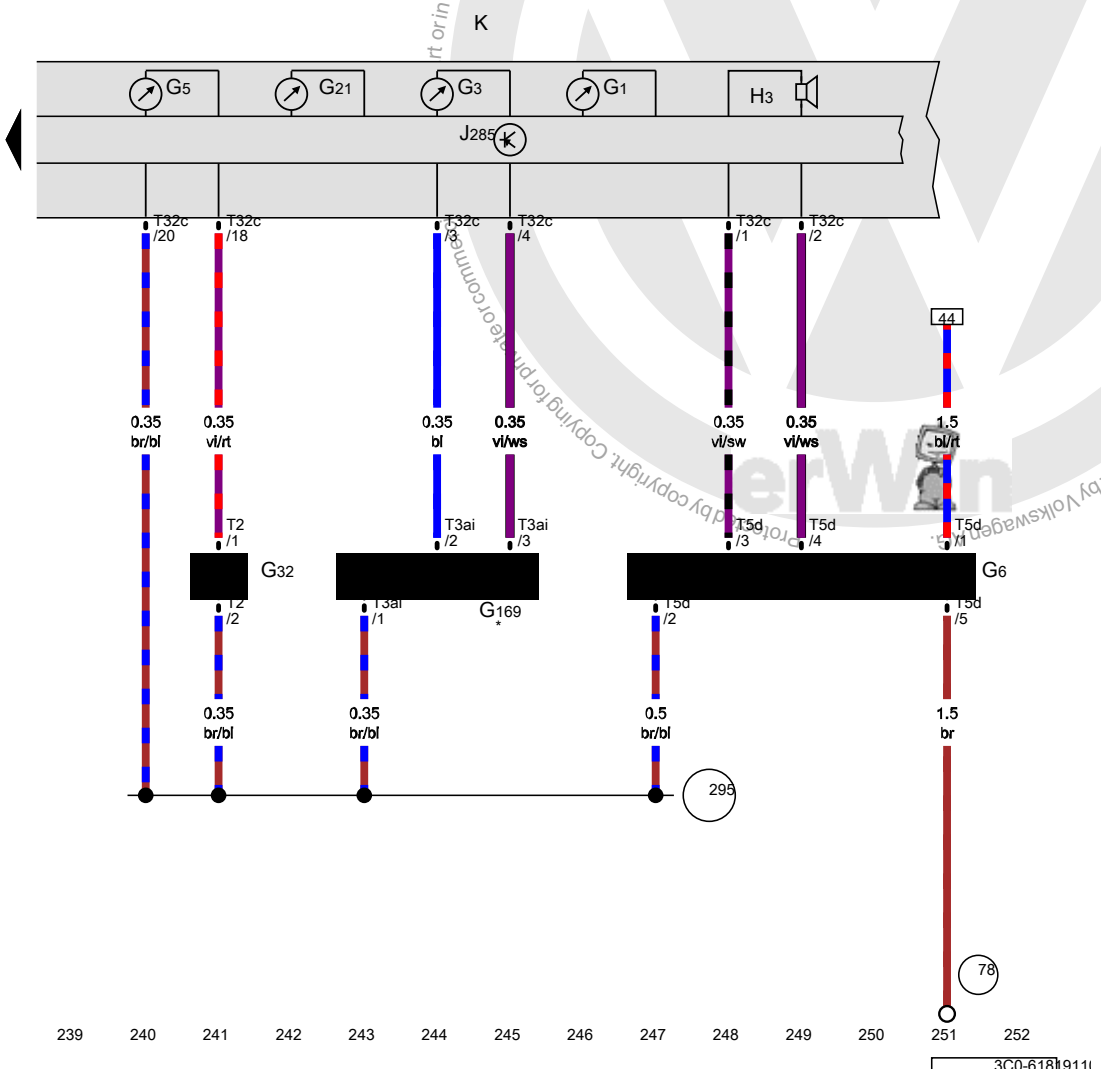
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Oil pressure switch, Oil level and oil temperature sender, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Glow period warning lamp, Cruise control system warning lamp, Oil level warning lamp, Reserve fuel warning lamp, Electronic power control fault lamp

F1	Oil pressure switch
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1ac	Single connector
T3bu	3-pin connector
T6e	6-pin connector, front left in engine compartment
T14a	14-pin connector, on left in engine compartment
T32c	32-pin connector
*	Only models with extended servicing intervals (ESI)

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Fuel gauge sender, Fuel gauge, Coolant temperature gauge, Rev. counter, Fuel system pressurisation pump, Speedometer, Coolant shortage indicator sender, Buzzer and gong, Dash panel insert

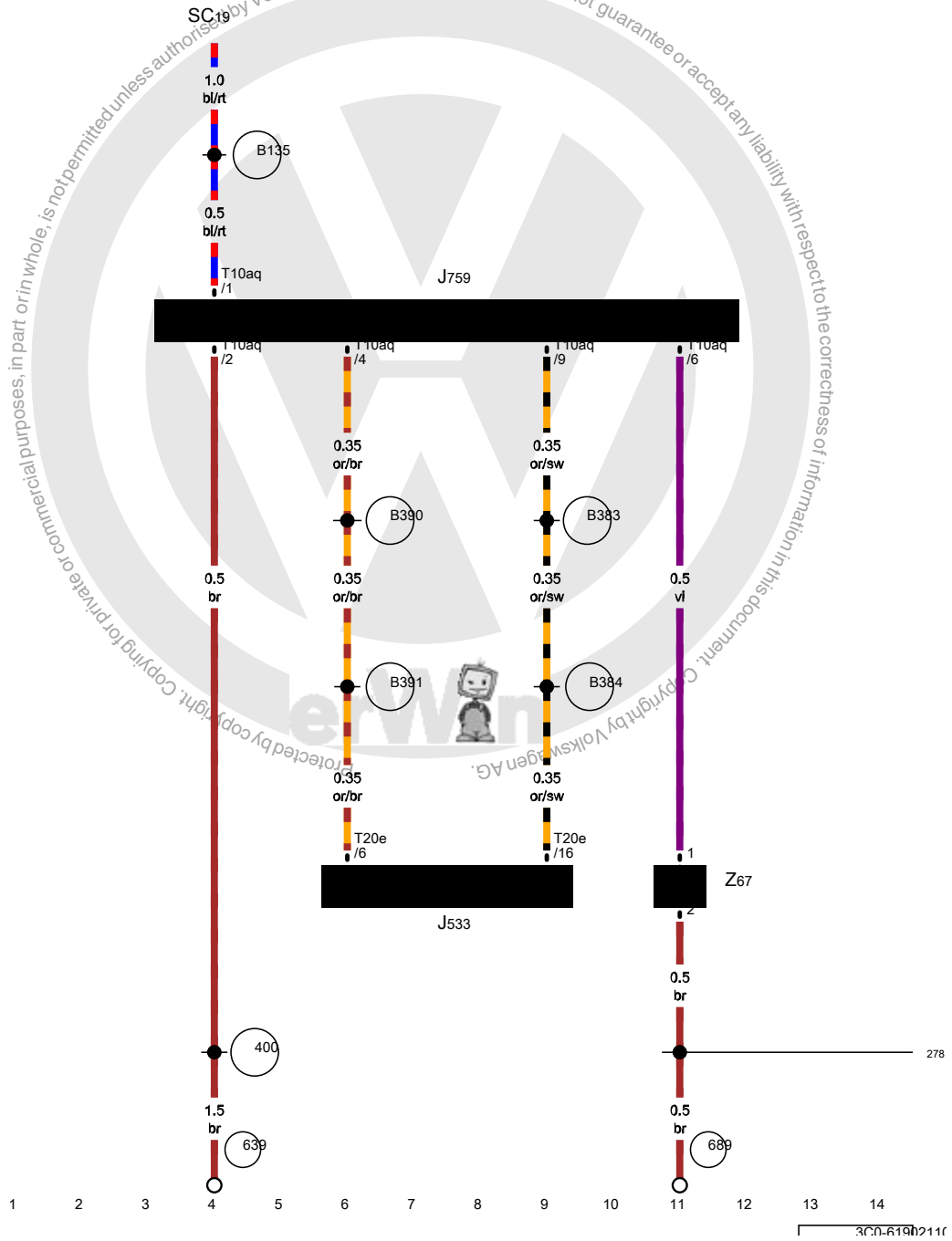
G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
H3	Buzzer and gong
J285	Control unit in dash panel insert
K	Dash panel insert
T2	2-pin connector
T3ai	3-pin connector
T5d	5-pin connector
T32c	32-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
*	Only models with all-wheel drive

Lane departure warning

From November 2008

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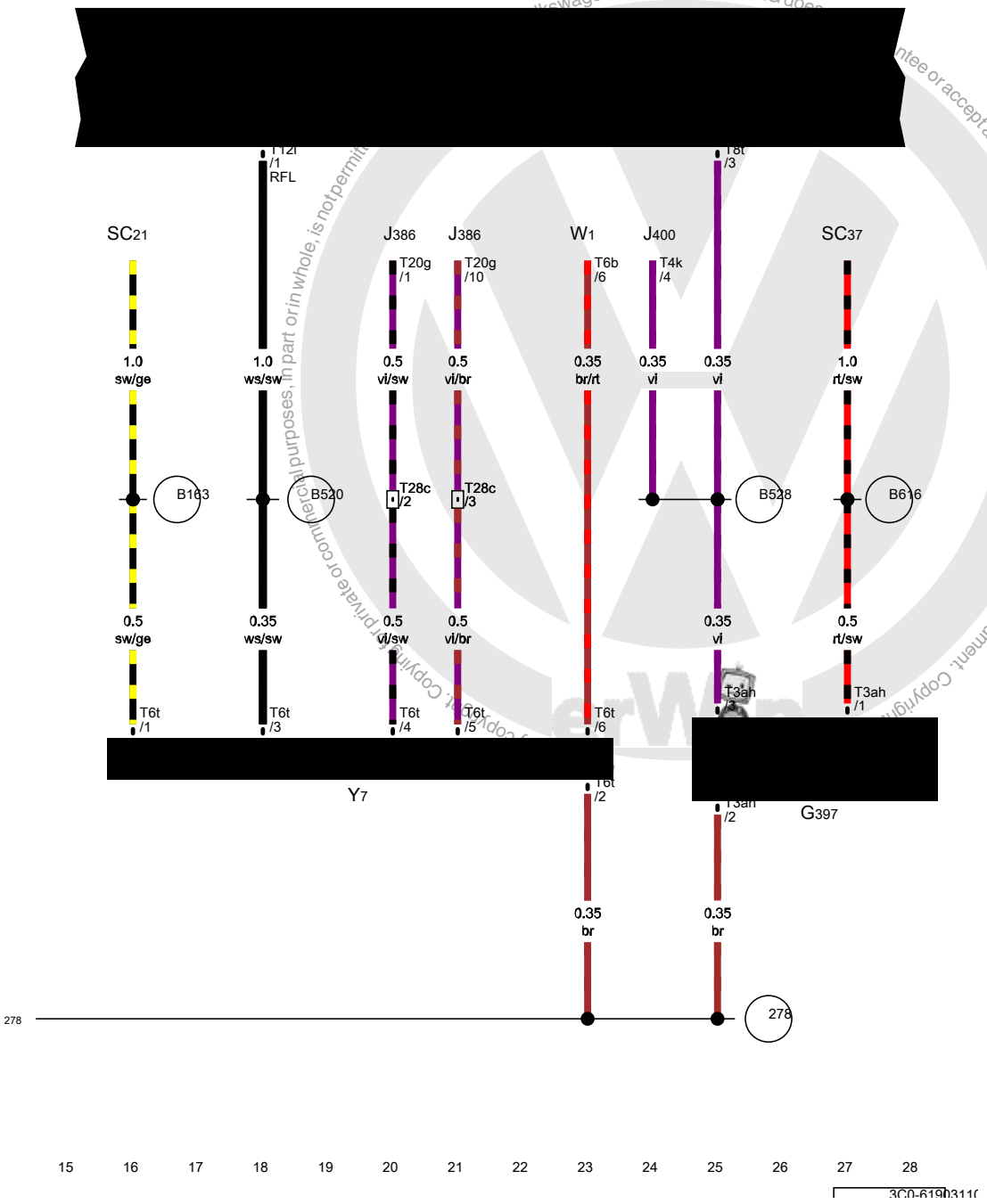
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Data bus diagnostic interface, Lane departure warning control unit, Windscreen heater for lane departure warning

J533	Data bus diagnostic interface
J759	Lane departure warning control unit
SC19	Fuse 19 on fuse holder C
T10aq	10-pin connector
T20e	20-pin connector
Z67	Windscreen heater for lane departure warning
278	Earth connection 4, in interior wiring harness
400	Earth connection 35, in main wiring harness
639	Earth point, left A-pillar
689	Earth point, at front, central in roof
B135	Connection 1 (15a), in interior wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness



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Rain and light sensor, Onboard supply control unit, Automatic anti-dazzle interior mirror

G397	Rain and light sensor
J386	Driver door control unit
J400	Wiper motor control unit
J519	Onboard supply control unit
SC21	Fuse 21 on fuse holder C
SC37	Fuse 37 on fuse holder C
T3ah	3-pin connector
T4k	4-pin connector
T6b	6-pin connector
T6t	6-pin connector
T8t	8-pin connector
T12i	12-pin connector
T20g	20-pin connector
T28c	28-pin connector
W1	Front interior light
Y7	Automatic anti-dazzle interior mirror
278	Earth connection 4, in interior wiring harness
B163	Positive connection 1 (15), in interior wiring harness
B520	Connection (RL), in main wiring harness
B528	Connection 1 (LIN bus) in main wiring harness
B616	Positive connection 12 (30a), in interior wiring harness

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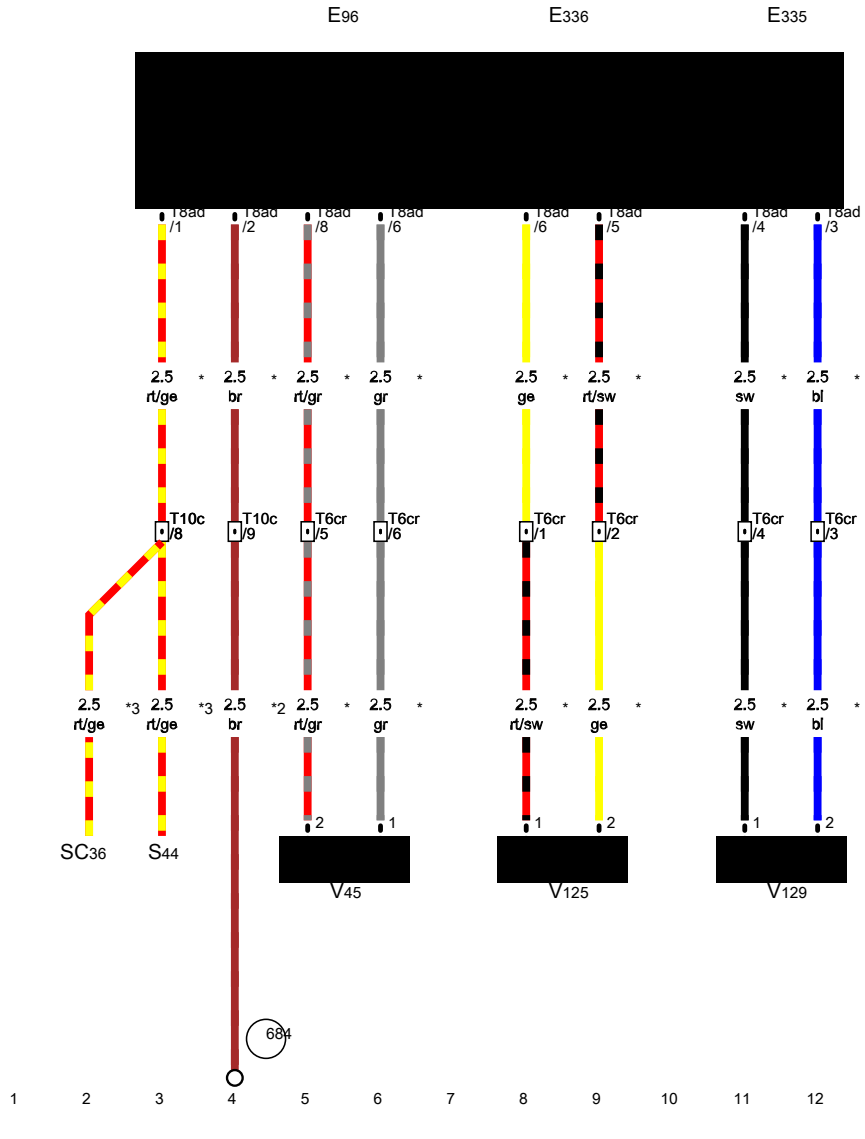
Adjustable driver and front passenger seats

From May 2009

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Driver seat backrest adjustment switch, Driver seat backrest adjustment motor, Driver seat lumbar support longitudinal adjustment motor, Driver seat lumbar support height adjustment motor

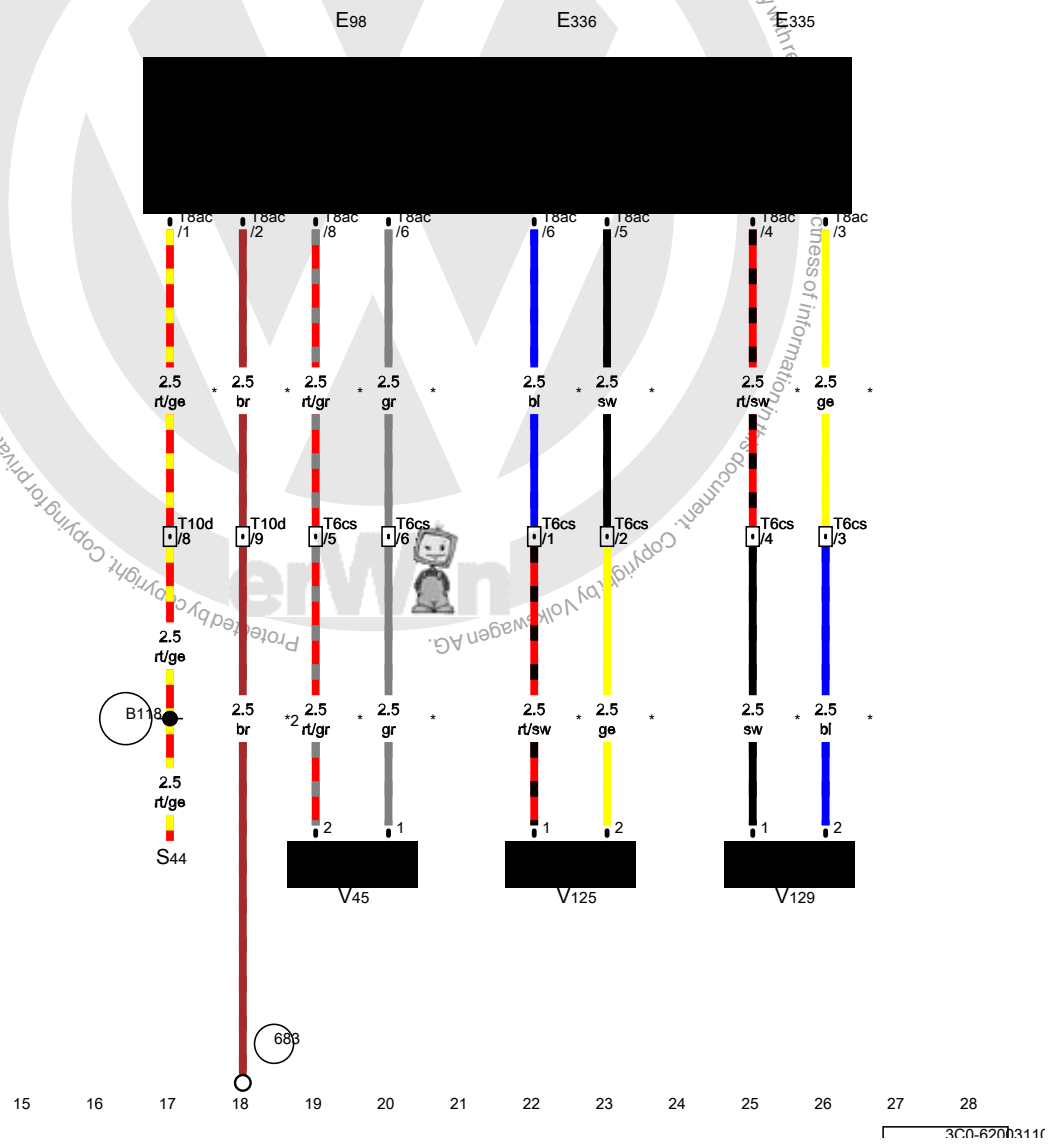
E96	Driver seat backrest adjustment switch
E335	Lumbar support height adjustment button
E336	Lumbar support longitudinal adjustment button
SC36	Fuse 36 on fuse holder C
S44	Driver seat adjustment thermal fuse 1
T6cr	6-pin connector, in driver seat
T8ad	8-pin connector
T10c	10-pin connector, in coupling point for front seat, left
V45	Driver seat backrest adjustment motor
V125	Driver seat lumbar support longitudinal adjustment motor
V129	Driver seat lumbar support height adjustment motor
(684)	Earth point on front of left side member
*	Cross-section 1.5 possible
*2	Cross-section 4.0 possible
*3	According to equipment



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Volkswagen Passat Variant 3C 2.0 TDI CR 4MOTION
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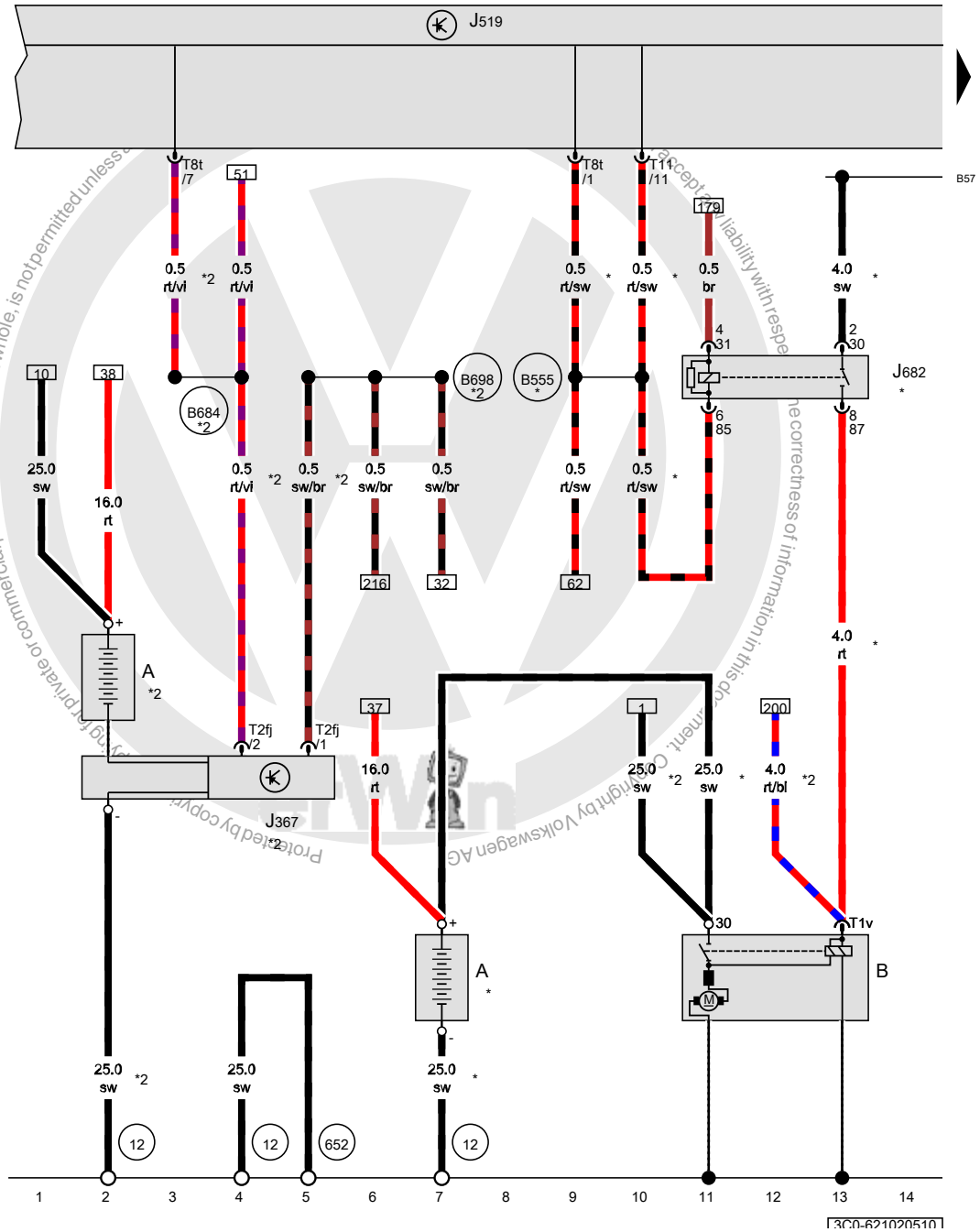
Front passenger seat backrest adjustment switch, Driver seat backrest adjustment motor, Driver seat lumbar support longitudinal adjustment motor, Driver seat lumbar support height adjustment motor

E98	Front passenger seat backrest adjustment switch
E335	Lumbar support height adjustment button
E336	Lumbar support longitudinal adjustment button
S44	Driver seat adjustment thermal fuse 1
T6cs	6-pin connector, in driver seat
T8ac	8-pin connector
T10d	10-pin connector, in coupling point for front seat, left
V45	Driver seat backrest adjustment motor
V125	Driver seat lumbar support longitudinal adjustment motor
V129	Driver seat lumbar support height adjustment motor
683	Earth point on front of right side member
B118	Connection (driver side seat adjustment), in interior wiring harness
*	Cross-section 1.5 possible
*2	Cross-section 4.0 possible

2.0l diesel engine , CBAB

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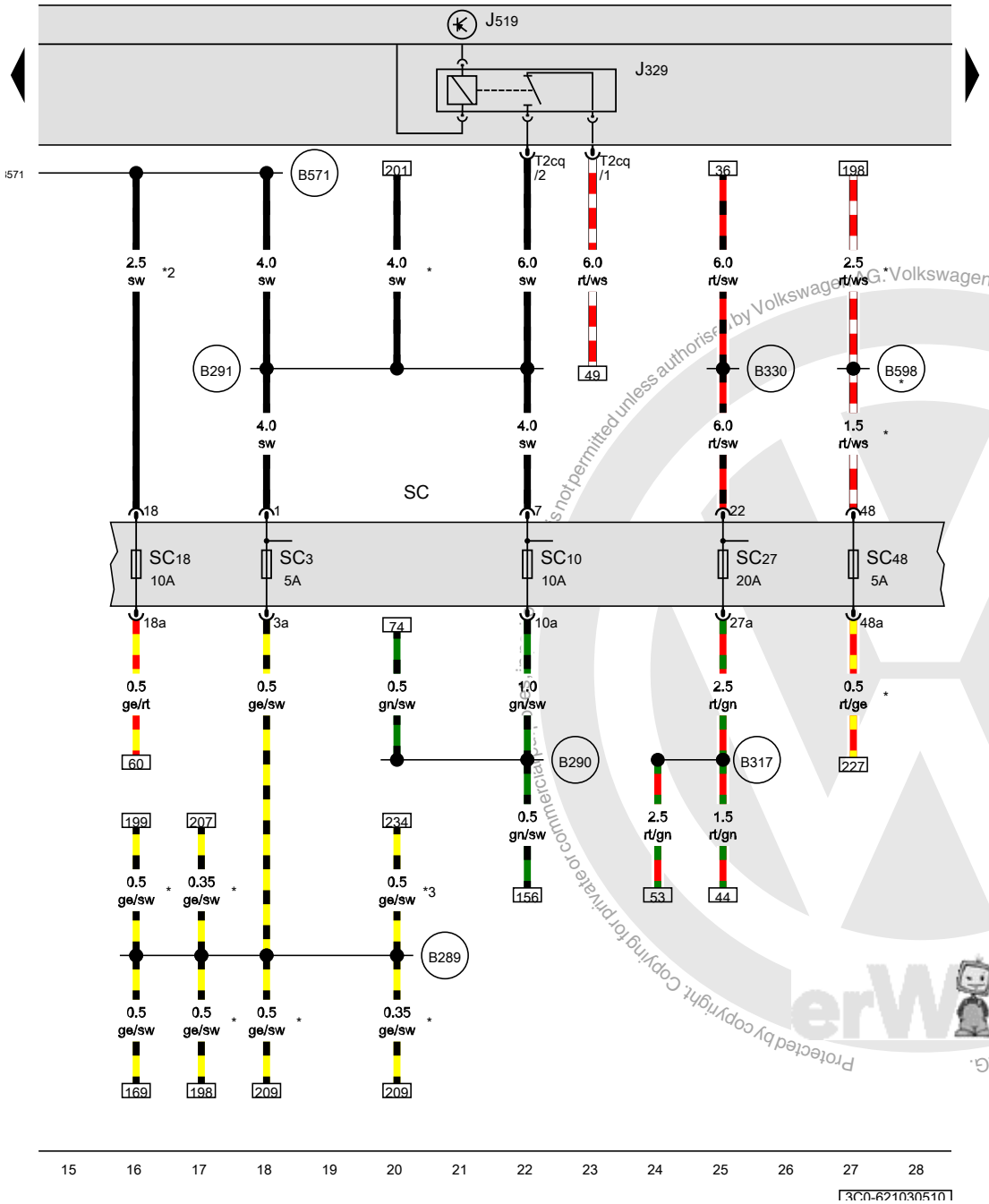


Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay

A	Battery
B	Starter
J367	Battery monitor control unit
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay
T1a	Single connector
T1v	Single connector
T2fj	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
652	Earth point, engine and gearbox earth
B555	Positive connection 2 (50), in main wiring harness
B571	Connection 38, in main wiring harness
B684	Positive connection 24 (30a) in main wiring harness
B698	Connection 3 (LIN bus), in main wiring harness
*	Only models with no start/stop system
*2	Only models with stop/start system

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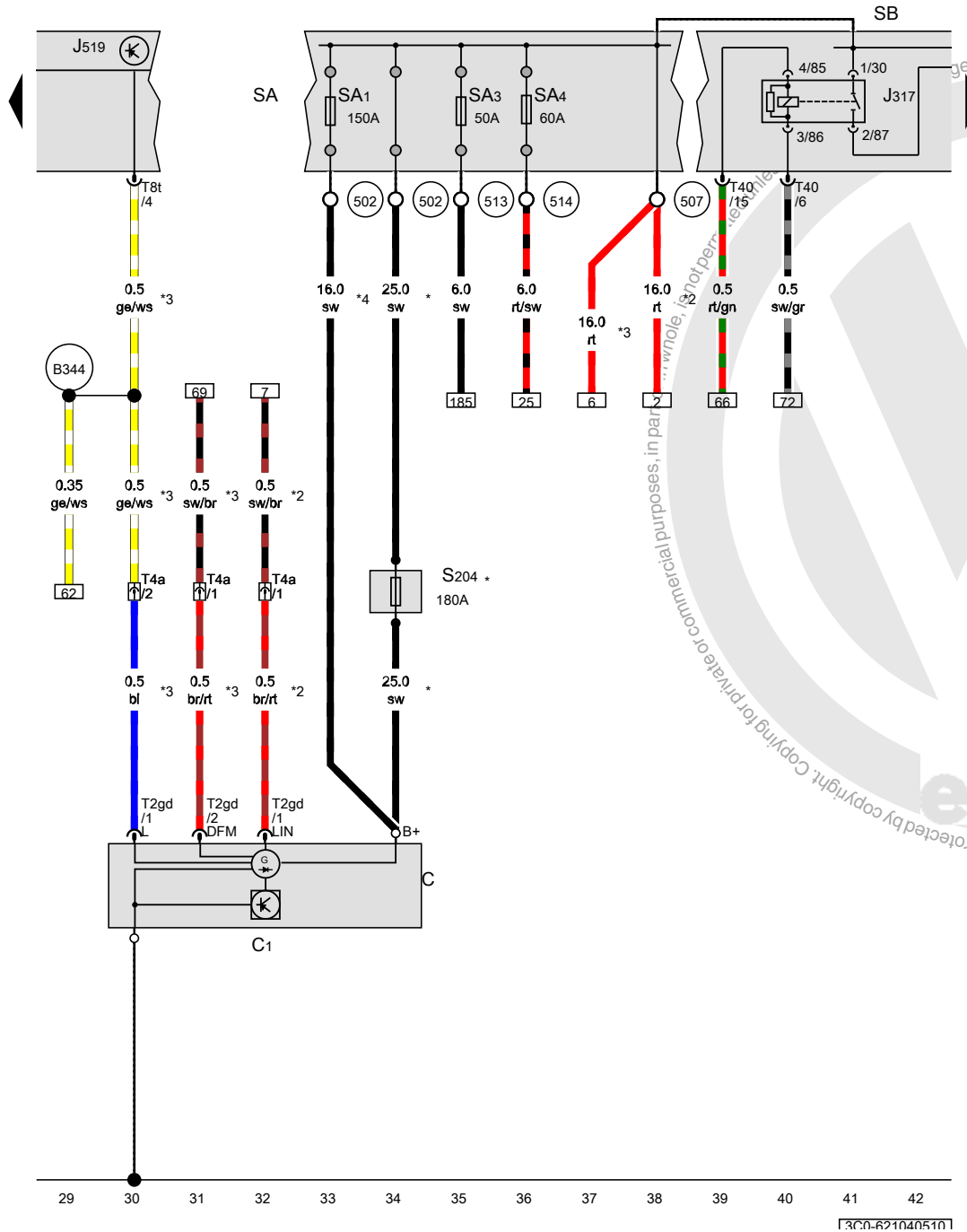


Terminal 15 voltage supply relay, Onboard supply control unit, Fuse holder C

J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
SC	Fuse holder C
SC3	Fuse 3 on fuse holder C
SC10	Fuse 10 on fuse holder C
SC18	Fuse 18 on fuse holder C
SC27	Fuse 27 on fuse holder C
SC48	Fuse 48 on fuse holder C
T2cq	2-pin connector
B289	Positive connection 13 (15a) in main wiring harness
B290	Positive connection 14 (15a) in main wiring harness
B291	Positive connection 15 (15a) in main wiring harness
B317	Positive connection 3 (30a) in main wiring harness
B330	Positive connection 16 (30a) in main wiring harness
B571	Connection 38, in main wiring harness
B598	Positive connection 11 (30a), in interior wiring harness
*	Only models with stop/start system
*2	Only for countries with cold climate
*3	Only models with extended servicing intervals (ESI)

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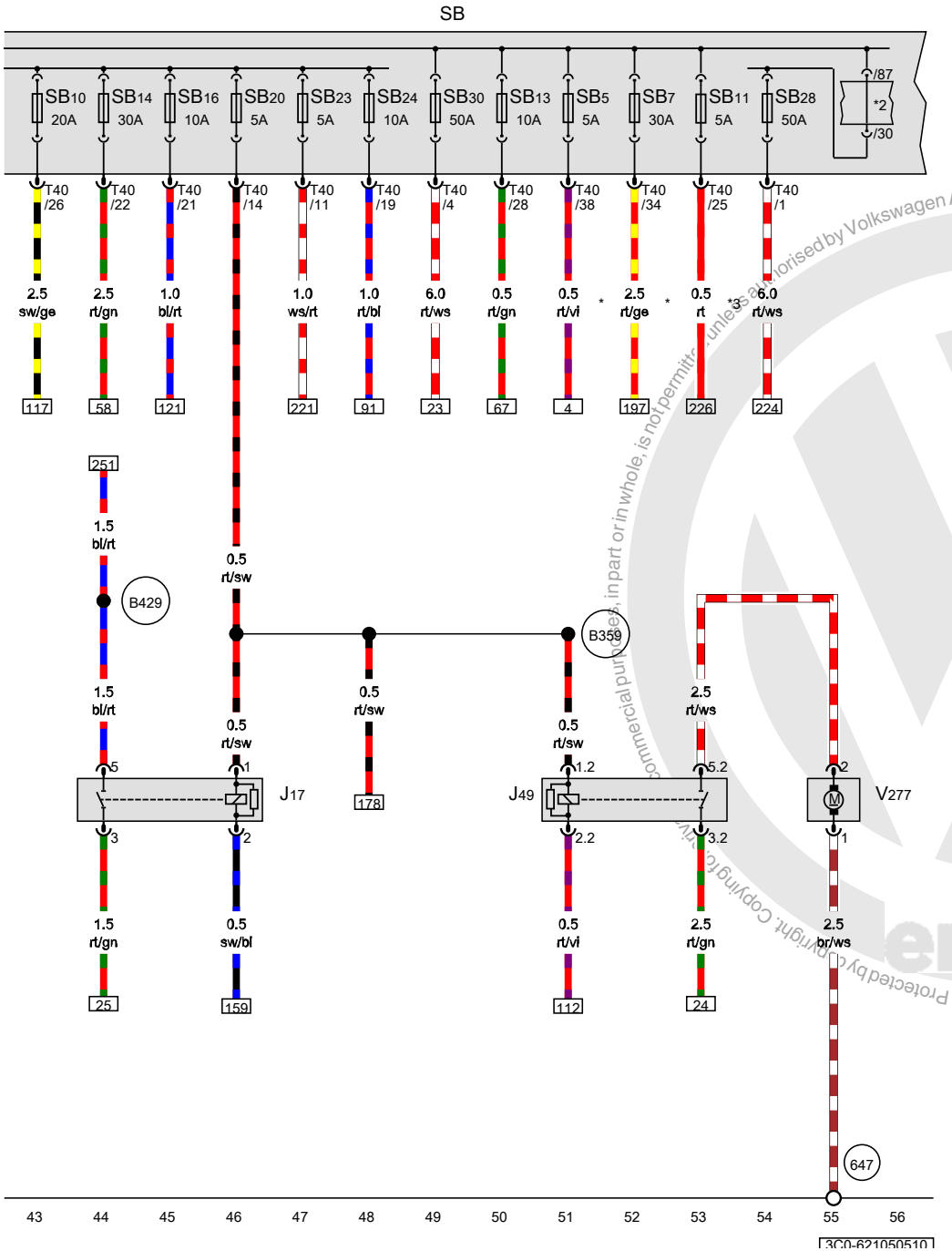


Alternator, Terminal 30 voltage supply relay, Onboard supply control unit, Fuse holder A, Fuse holder B

C	Alternator
C1	Voltage regulator
J317	Terminal 30 voltage supply relay
J519	Onboard supply control unit
SA1	Fuse 1 in fuse holder A
SA3	Fuse 3 in fuse holder A
SA4	Fuse 4 in fuse holder A
S204	Fuse 1 (30)
SA	Fuse holder A
SB	Fuse holder B
T1a	Single connector
T2gd	2-pin connector
T2ze	2-pin connector
T4a	4-pin connector, near starter
T8t	8-pin connector
T40	40-pin connector
502	Threaded connection 1 (30a) on relay plate
507	Threaded connection (30), on battery fuse holder
513	Threaded connection 3 (30a) on relay plate
514	Threaded connection 4 (30a) on relay plate
B344	Connection 1 (61), in main wiring harness
*	According to equipment
*2	Only models with stop/start system
*3	Only models with no start/stop system
*4	Only models with 140A alternator

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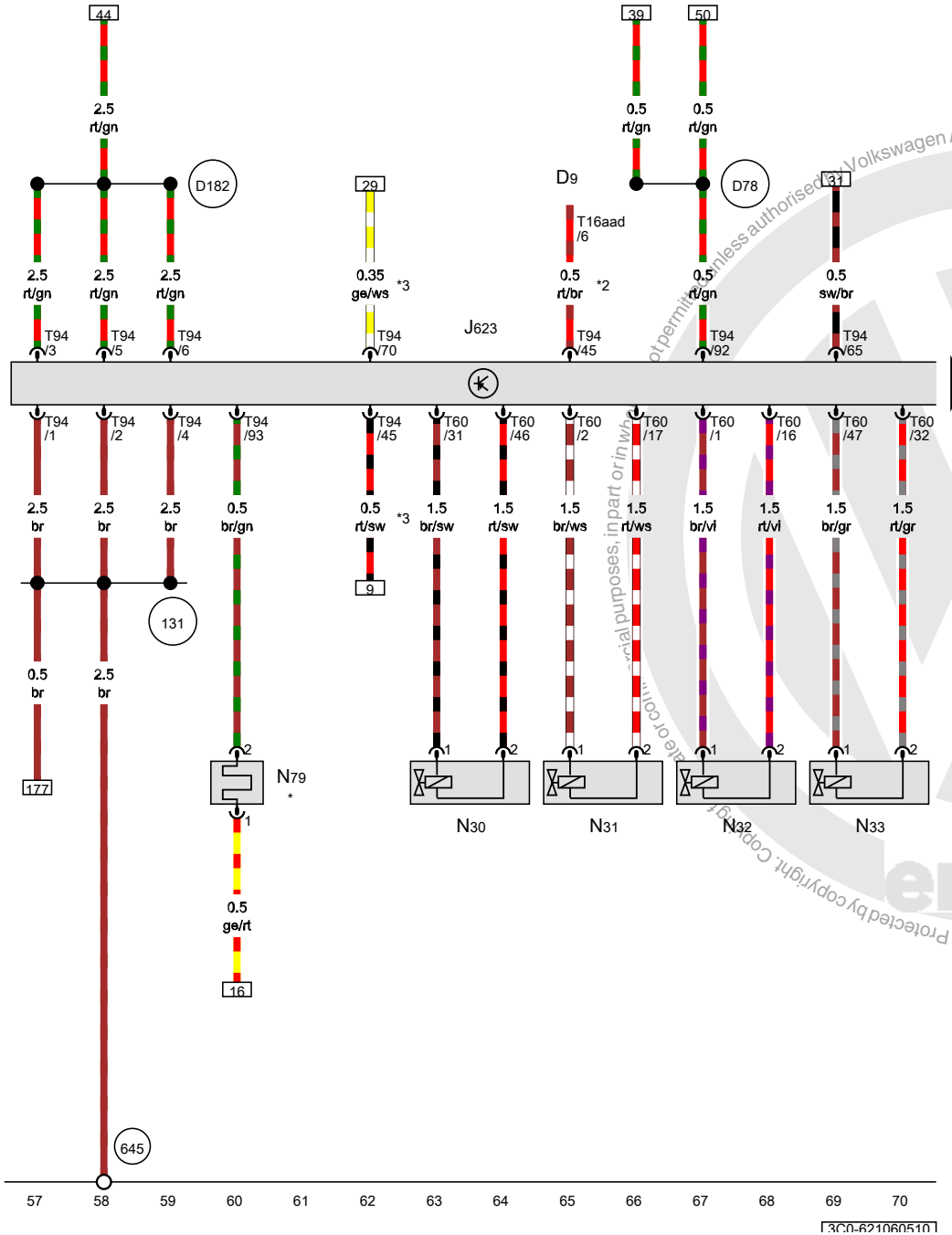


Fuel pump relay, Fuse holder B

J17	Fuel pump relay
J49	Electric fuel pump 2 relay
SB	Fuse holder B
SB5	Fuse 5 on fuse holder B
SB7	Fuse 7 on fuse holder B
SB10	Fuse 10 on fuse holder B
SB11	Fuse 11 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB14	Fuse 14 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
SB24	Fuse 24 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T40	40-pin connector
V277	Fuel pump 2
647	Earth point 3, on bulkhead
B359	Positive connection 10 (87a) in main wiring harness
B429	Connection (EFPR), in main wiring harness
*	Only models with stop/start system
*2	Push-in bridge on relay slot
*3	Only models with no start/stop system

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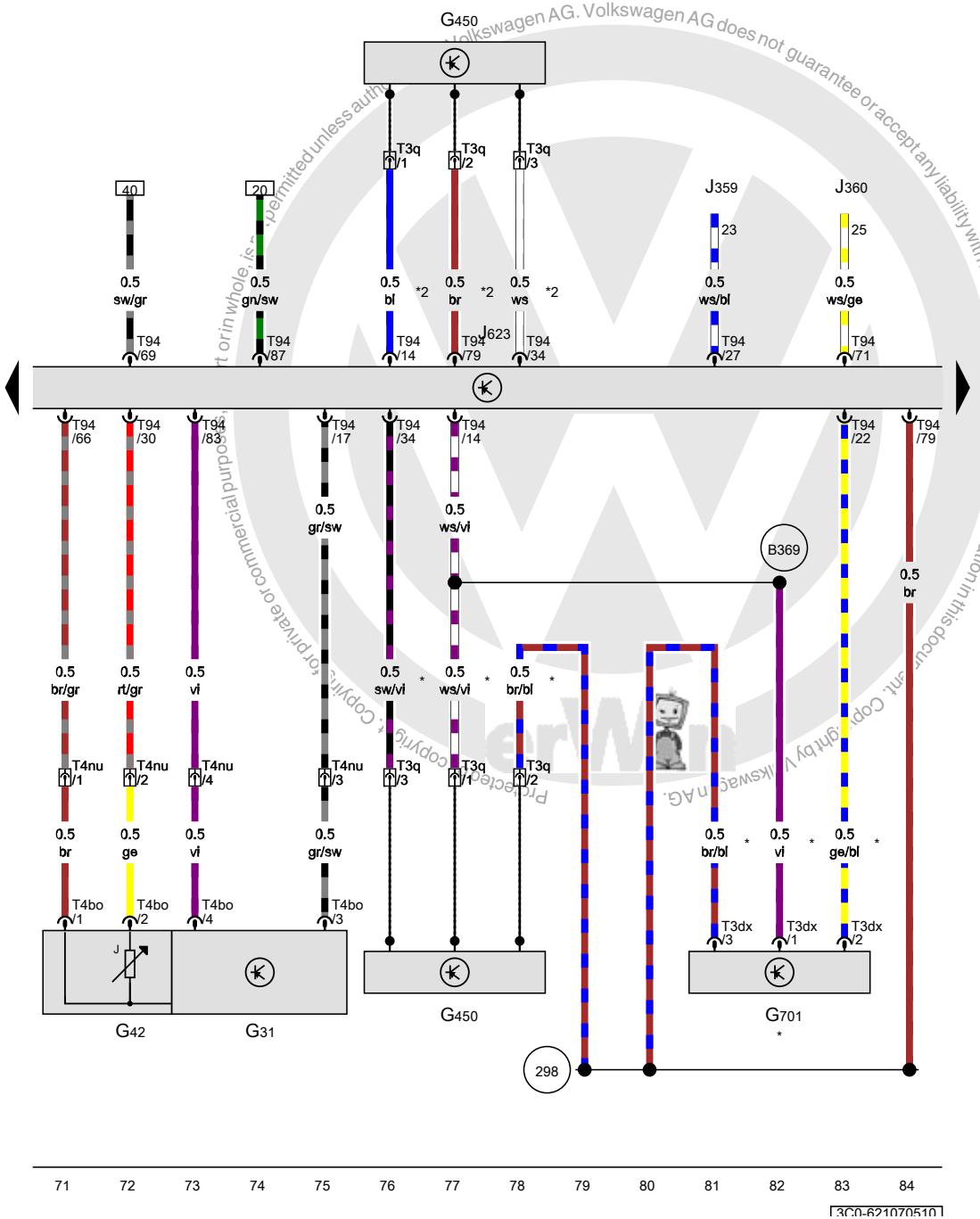


Electronic ignition lock, Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4, Heater element for crankcase breather

D9	Electronic ignition lock
J623	Engine control unit
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
N79	Heater element for crankcase breather
T16aad	16-pin connector
T60	60-pin connector
T94	94-pin connector
131	Earth connection 2, in engine compartment wiring harness
645	Earth point 1, on bulkhead
D78	Positive connection 1 (30a), in engine compartment wiring harness
D182	Connection 3 (87a), in engine compartment wiring harness
*	Only for countries with cold climate
*2	Only models with stop/start system
*3	Only models with no start/stop system

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Intake air temperature sender, Exhaust gas pressure sensor 1, Gearbox neutral position sender, Low heat output relay, High heat output relay, Engine control unit

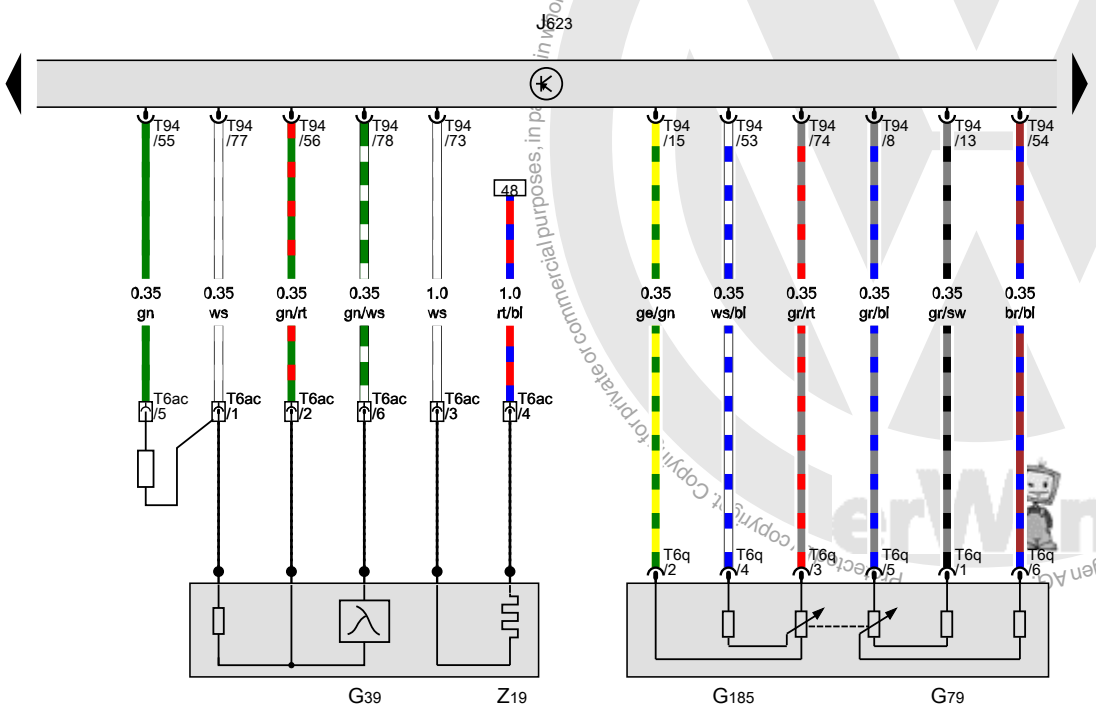
G31	Charge pressure sender
G42	Intake air temperature sender
G450	Exhaust gas pressure sensor 1
G701	Gearbox neutral position sender
J359	Low heat output relay
J360	High heat output relay
J623	Engine control unit
T3dx	3-pin connector
T3q	3-pin connector, black
T4bo	4-pin connector
T4nu	4-pin connector, black
T94	94-pin connector
(298)	Earth connection 13, in interior wiring harness
(B369)	Connection 1 (5V), in main wiring harness
*	Only models with stop/start system
*2	Only models with no start/stop system

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Lambda probe, Accelerator position sender, Engine control unit

G39	Lambda probe
G79	Accelerator position sender
G185	Accelerator position sender 2
J623	Engine control unit
T6ac	6-pin connector, near Lambda probe
T6q	6-pin connector
T94	94-pin connector
Z19	Lambda probe heater



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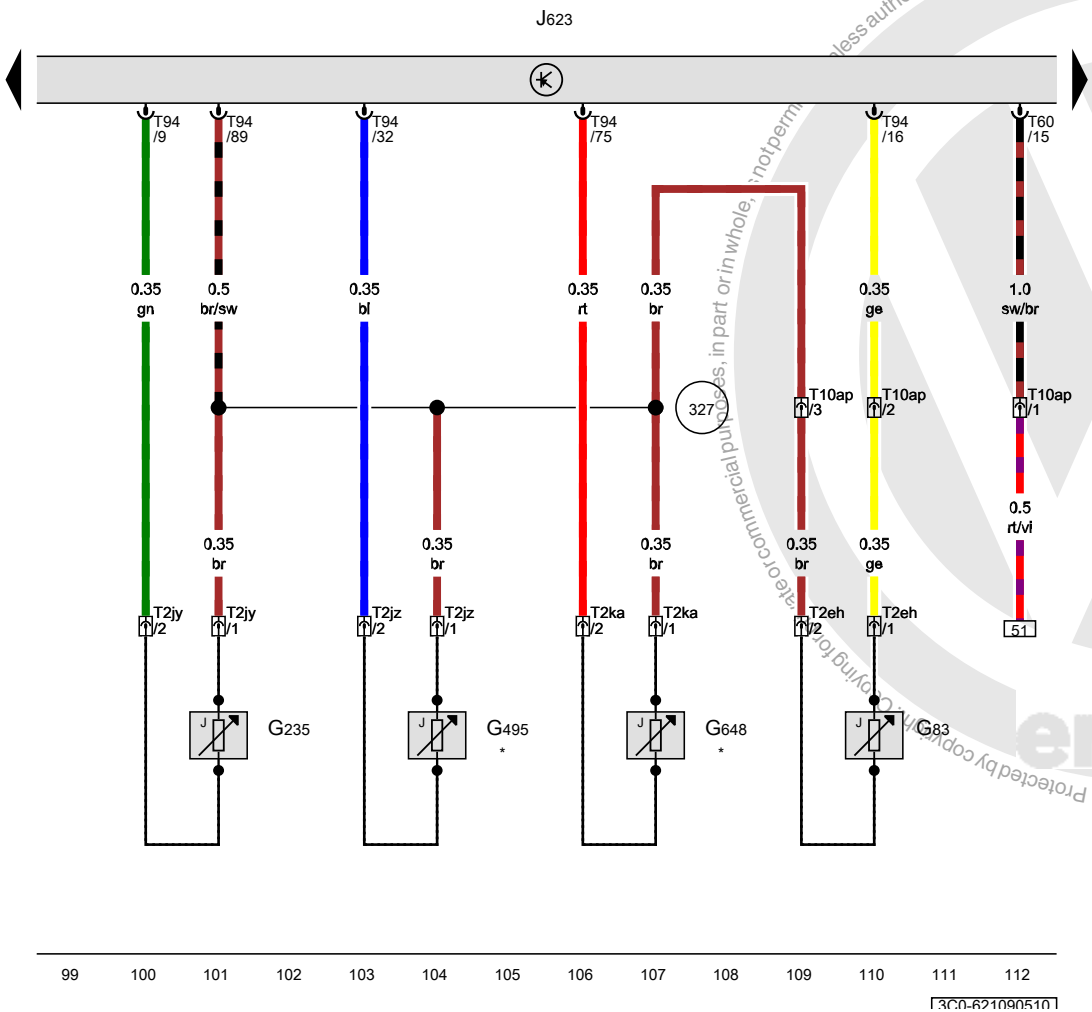
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Radiator outlet coolant temperature sender, Exhaust gas temperature sender 1, Exhaust gas temperature sender 3, Exhaust gas temperature sender 4, Engine control unit

G83	Radiator outlet coolant temperature sender
G235	Exhaust gas temperature sender 1
G495	Exhaust gas temperature sender 3
G648	Exhaust gas temperature sender 4
J623	Engine control unit
T2eh	2-pin connector
T2jy	2-pin connector, black
T2jz	2-pin connector, brown
T2ka	2-pin connector, dark brown
T10ap	10-pin connector, near left headlight
T60	60-pin connector
T94	94-pin connector
327	Earth connection (sender earth), in engine compartment wiring harness
*	According to equipment

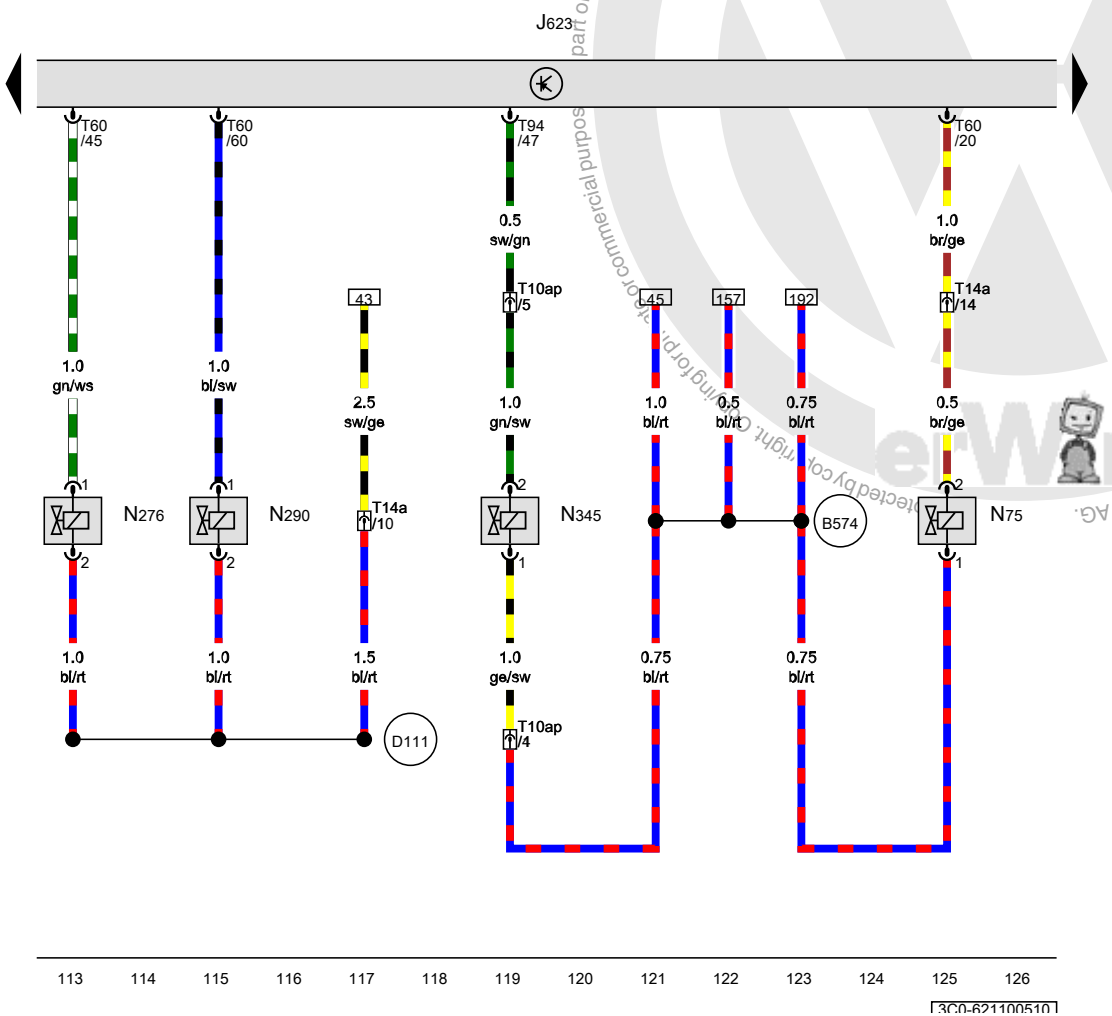


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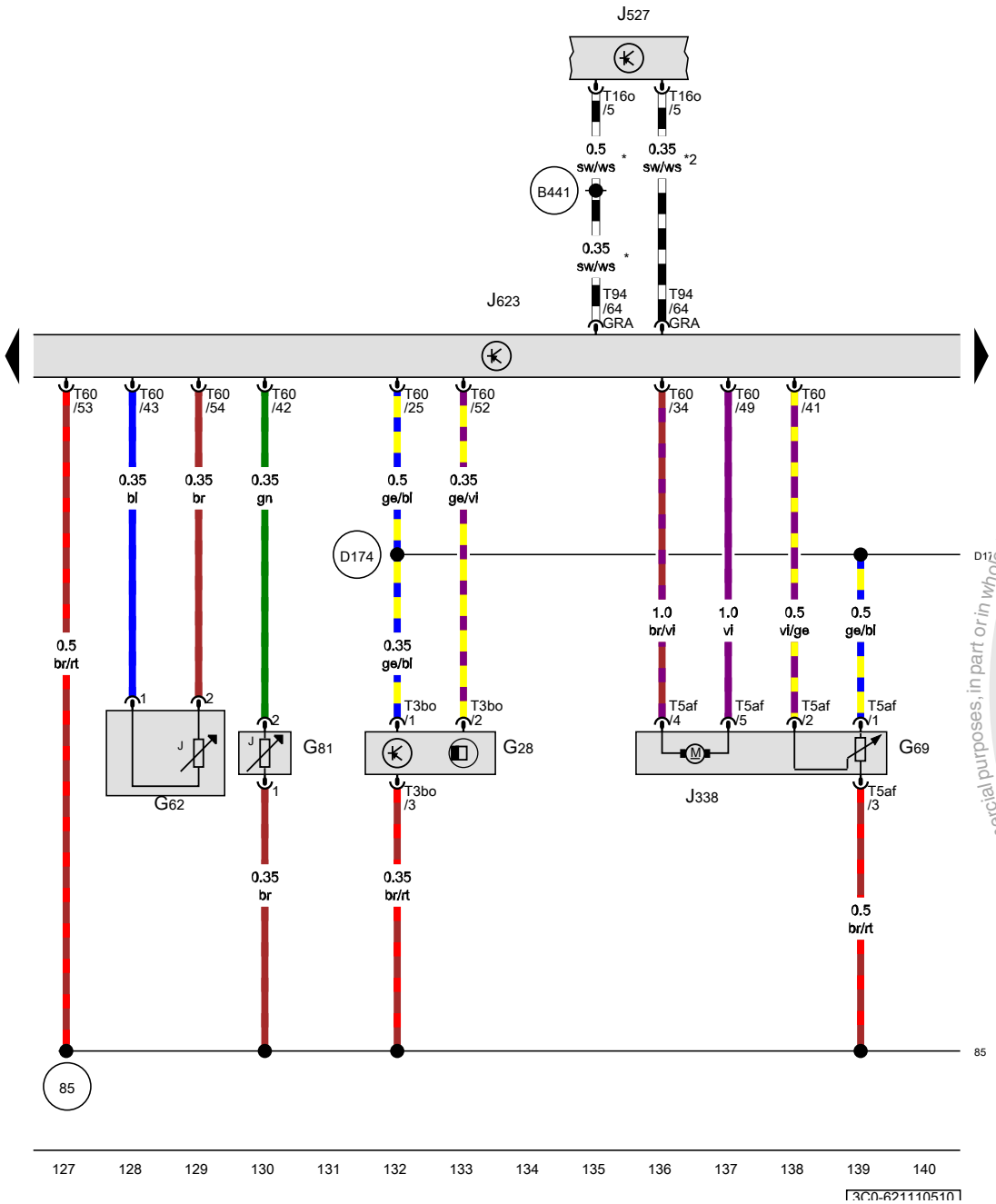
Engine control unit, Charge pressure control solenoid valve, Fuel pressure regulating valve, Fuel metering valve, Exhaust gas recirculation cooler changeover valve

J623	Engine control unit
N75	Charge pressure control solenoid valve
N276	Fuel pressure regulating valve
N290	Fuel metering valve
N345	Exhaust gas recirculation cooler changeover valve
T10ap	10-pin connector, near left headlight
T14a	14-pin connector, on left in engine compartment
T60	60-pin connector
T94	94-pin connector
B574	Positive connection 20 (87a) in main wiring harness
D111	Connection 9 in engine compartment wiring harness



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Engine speed sender, Coolant temperature sender, Throttle valve potentiometer, Fuel temperature sender, Throttle valve module, Steering column electronics control unit, Engine control unit

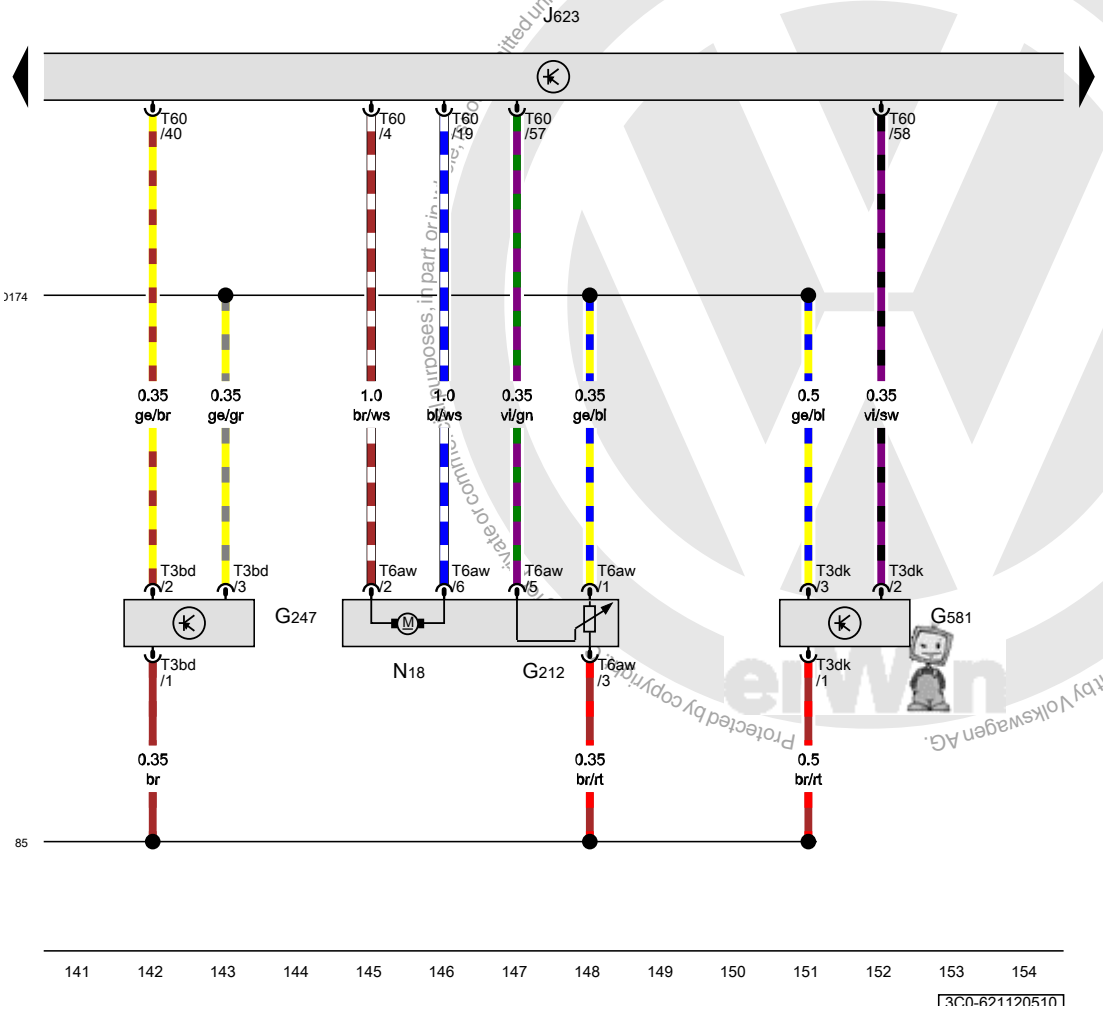
G28	Engine speed sender
G62	Coolant temperature sender
G69	Throttle valve potentiometer
G81	Fuel temperature sender
J338	Throttle valve module
J527	Steering column electronics control unit
J623	Engine control unit
T3bo	3-pin connector
T5af	5-pin connector
T16o	16-pin connector
T60	60-pin connector
T94	94-pin connector
85	Earth connection 1, in engine compartment wiring harness
B441	Connection (CCS), in main wiring harness
D174	Connection 2 (5V) in engine prewiring harness
*	Only models with adaptive cruise control (ACC)
*2	Only models with cruise control system (CCS)

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Exhaust gas recirculation potentiometer, Fuel pressure sender, Position sender for charge pressure positioner, Engine control unit, Exhaust gas recirculation valve

G212	Exhaust gas recirculation potentiometer
G247	Fuel pressure sender
G581	Position sender for charge pressure positioner
J623	Engine control unit
N18	Exhaust gas recirculation valve
T3bd	3-pin connector
T3dk	3-pin connector
T6aw	6-pin connector
T60	60-pin connector
85	Earth connection 1, in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

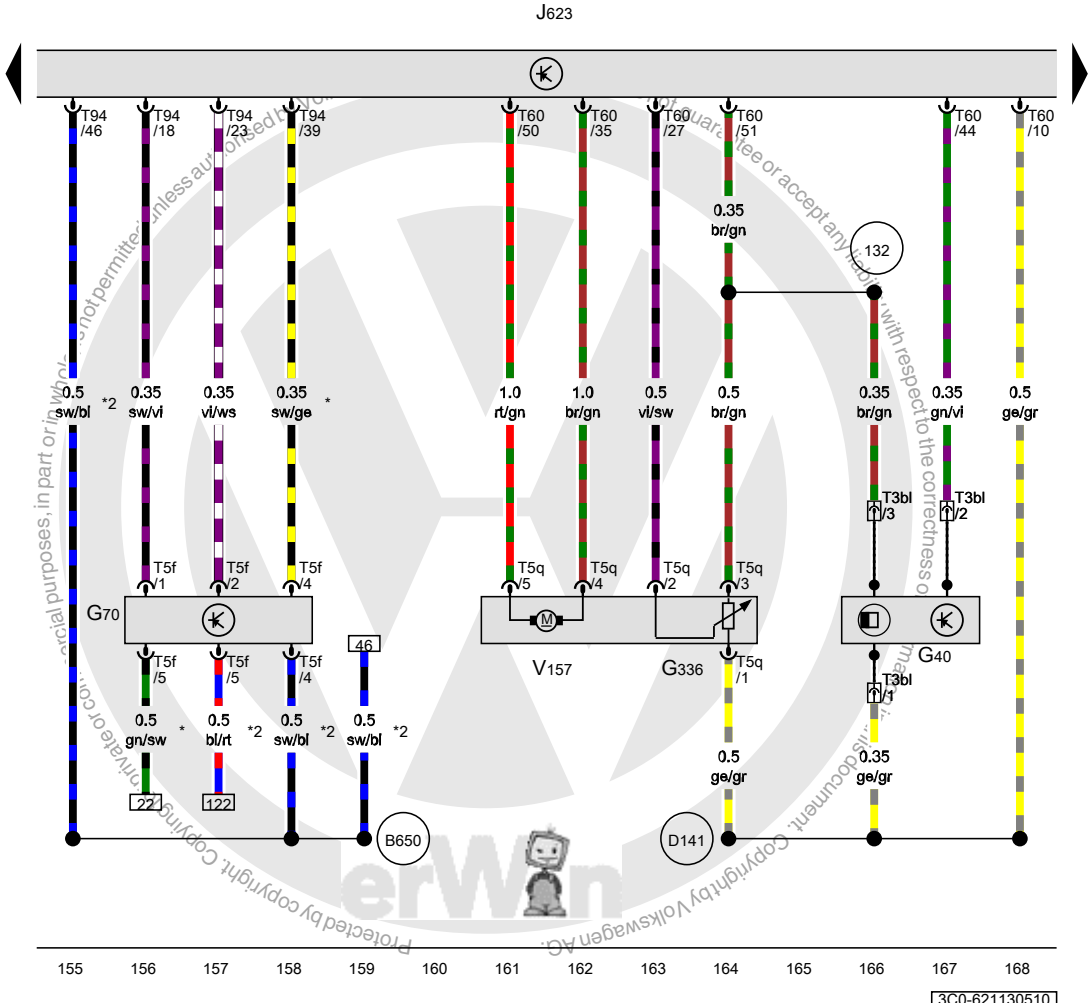


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Hall sender, Air mass meter, Intake manifold flap potentiometer, Engine control unit, Intake manifold flap motor

G40	Hall sender
G70	Air mass meter
G336	Intake manifold flap potentiometer
J623	Engine control unit
T3bl	3-pin connector, grey
T5f	5-pin connector
T5q	5-pin connector
T60	60-pin connector
T94	94-pin connector
V157	Intake manifold flap motor
132	Earth connection 3, in engine compartment wiring harness
B650	Connection 8, in interior wiring harness
D141	Connection (5V) in engine prewiring harness
*	Only models with no start/stop system
*2	Only models with stop/start system

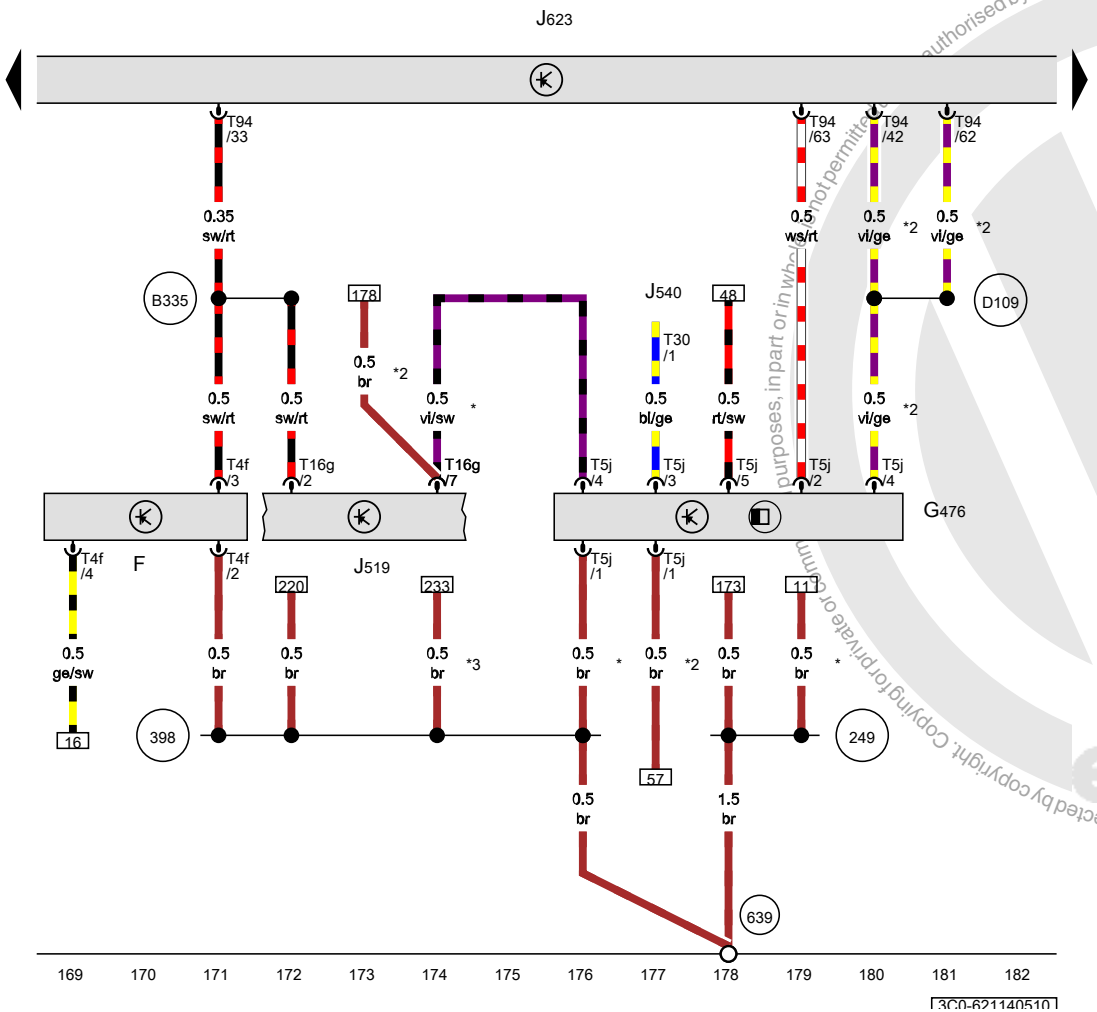


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Brake light switch, Clutch position sender, Onboard supply control unit, Engine control unit

F	Brake light switch
G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit
T4f	4-pin connector
T5j	5-pin connector
T16g	16-pin connector
T30	30-pin connector
T94	94-pin connector
249	Earth connection 2, in interior wiring harness
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
D109	Connection 7 in engine compartment wiring harness
*	Only models with no start/stop system
*2	Only models with stop/start system
*3	Only models with extended servicing intervals (ESI)

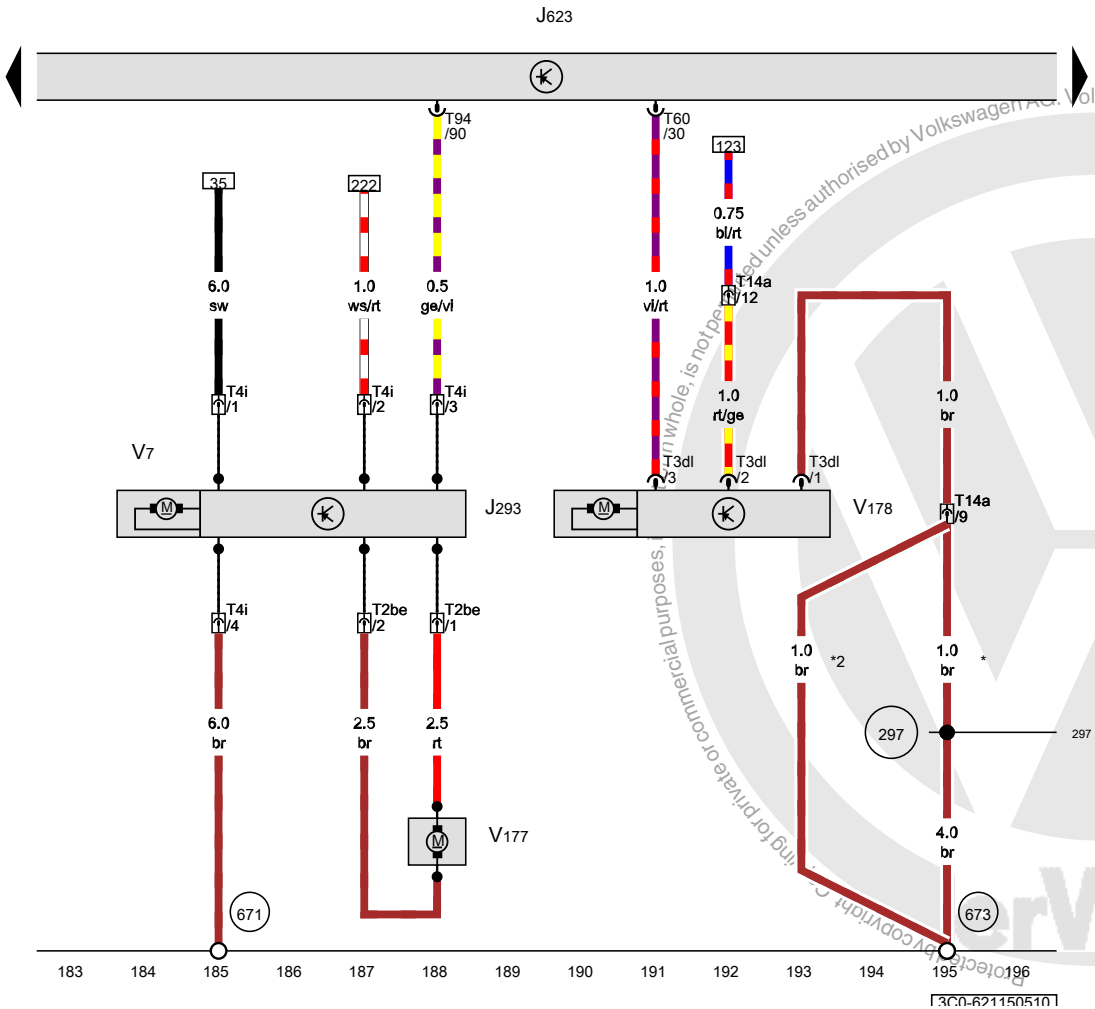


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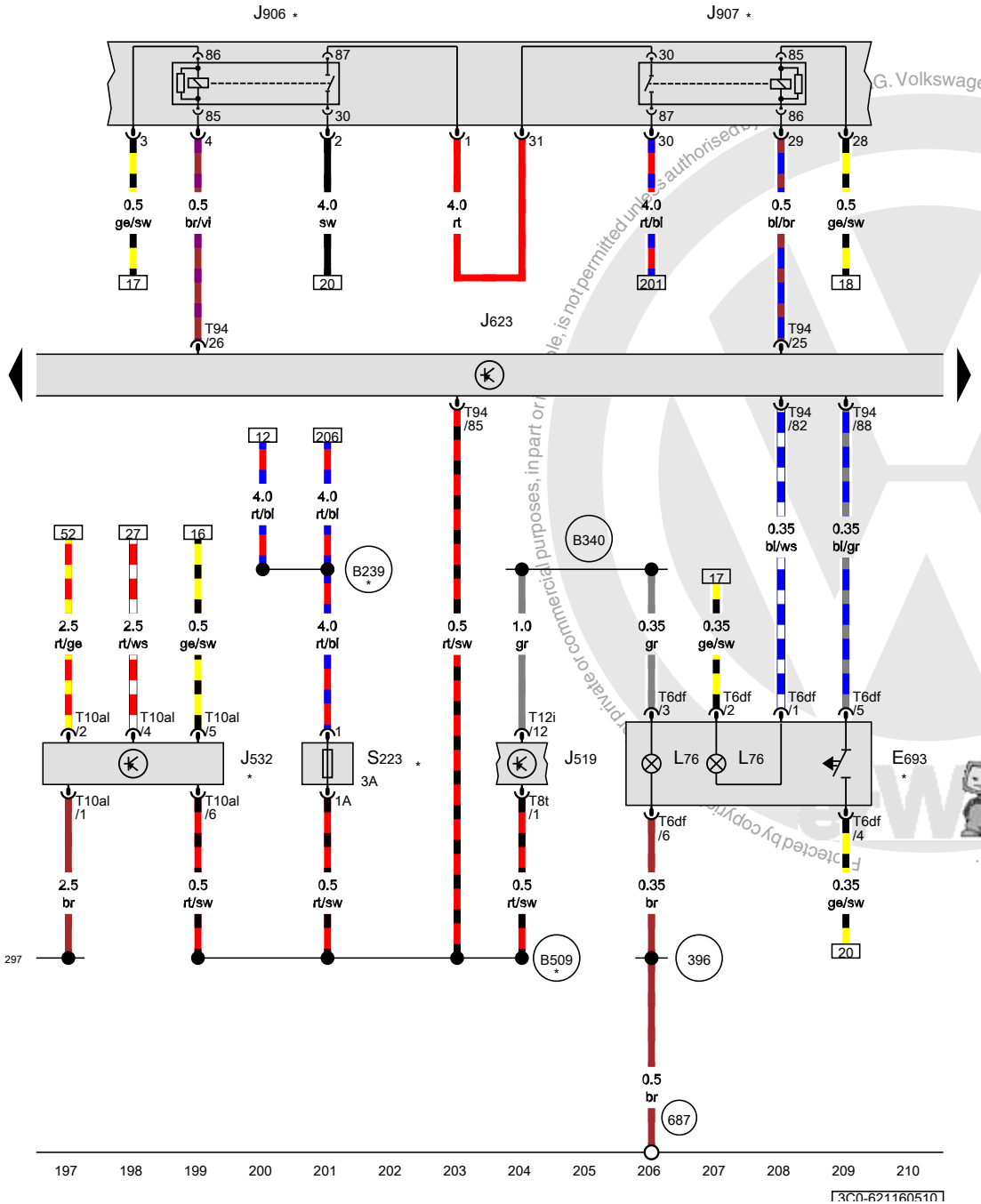
Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2, Coolant circulation pump 2

J293	Radiator fan control unit
J623	Engine control unit
T2be	2-pin connector, on lock carrier
T3dl	3-pin connector
T4i	4-pin connector, on lock carrier
T14a	14-pin connector, on left in engine compartment
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
V178	Coolant circulation pump 2
297	Earth connection 12, in interior wiring harness
671	Earth point 1, on front of left longitudinal member
673	Earth point 3, on front of left longitudinal member
*	Only models with stop/start system
*2	Only models with no start/stop system



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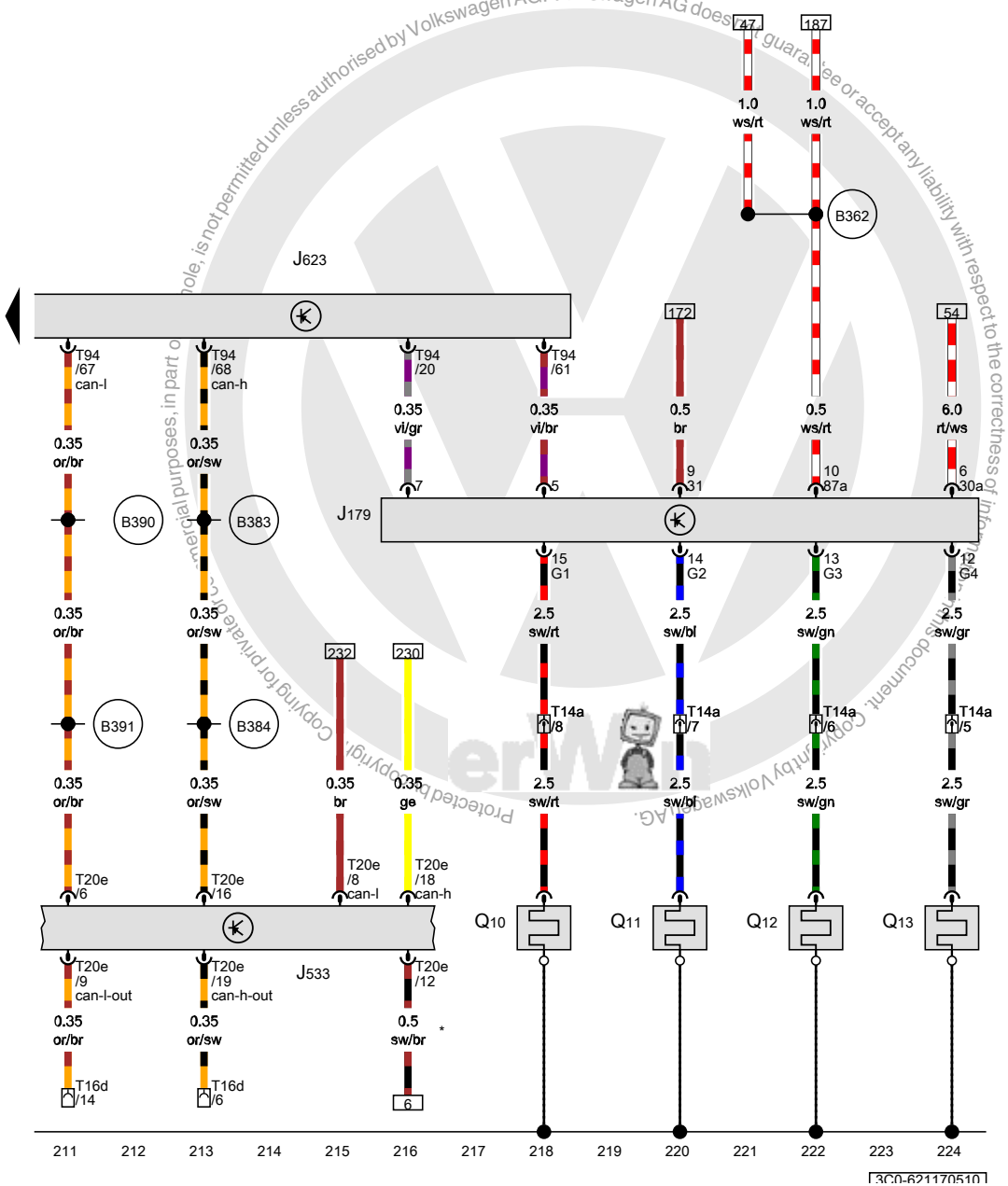


Start/Stop operation button, Onboard supply control unit, Voltage stabiliser, Engine control unit, Starter relay 1, Starter relay 2, Fuse in fuse holder

E693	Start/Stop operation button
J519	Onboard supply control unit
J532	Voltage stabiliser
J623	Engine control unit
J906	Starter relay 1
J907	Starter relay 2
L76	Button illumination bulb
S223	Fuse in fuse holder
T6df	6-pin connector
T8t	8-pin connector
T10al	10-pin connector
T12i	12-pin connector
T94	94-pin connector
297	Earth connection 12, in interior wiring harness
396	Earth connection 31, in main wiring harness
687	Earth point 1, on centre tunnel
B239	Positive connection 1 (50), in interior wiring harness
B340	Connection 1 (58d), in main wiring harness
B509	Connection 3 (diagnosis), in main wiring harness
*	Only models with stop/start system

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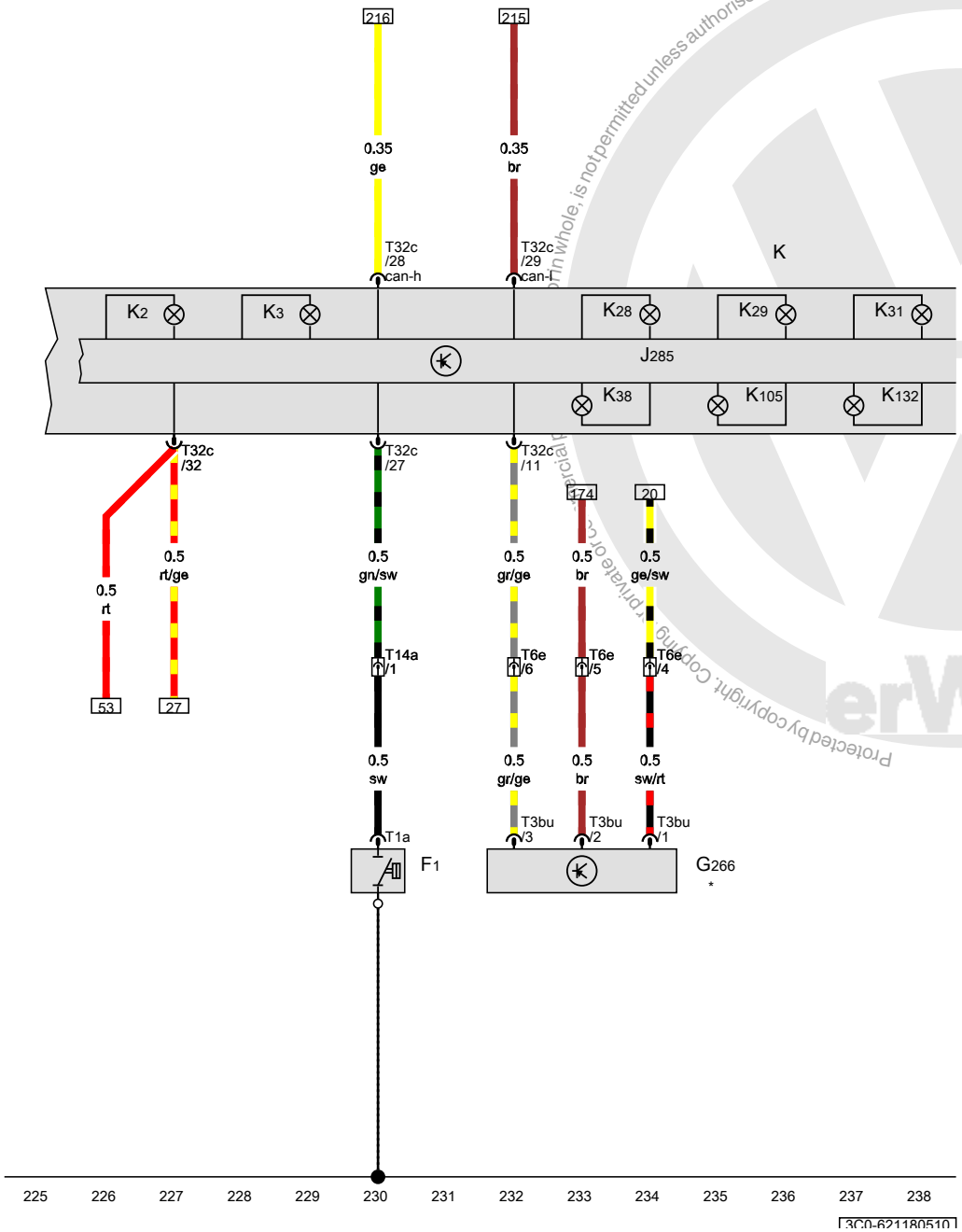


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Automatic glow period control unit, Data bus diagnostic interface, Engine control unit, Glow plug 1, Glow plug 2, Glow plug 3, Glow plug 4

J179	Automatic glow period control unit
J533	Data bus diagnostic interface
J623	Engine control unit
Q10	Glow plug 1
Q11	Glow plug 2
Q12	Glow plug 3
Q13	Glow plug 4
T14a	14-pin connector, on left in engine compartment
T16d	16-pin connector
T20e	20-pin connector
T94	94-pin connector
B362	Positive connection 13 (87a) in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
*	Only models with stop/start system

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Oil pressure switch, Oil level and oil temperature sender, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Glow period warning lamp, Cruise control system warning lamp, Oil level warning lamp, Reserve fuel warning lamp, Electronic power control fault lamp

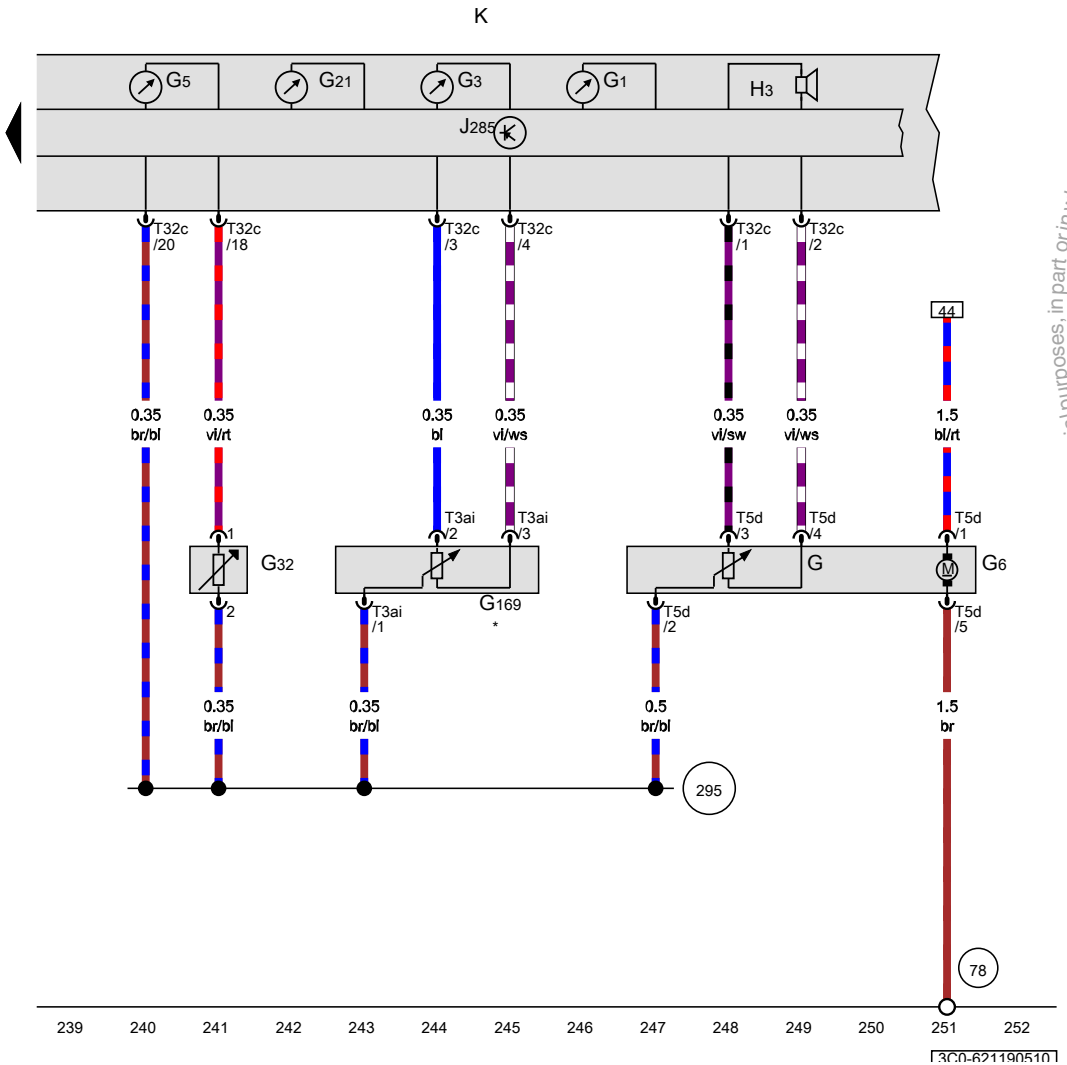
F1	Oil pressure switch
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K29	Glow period warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T1a	Single connector
T3bu	3-pin connector
T6e	6-pin connector, front left in engine compartment
T14a	14-pin connector, on left in engine compartment
T32c	32-pin connector
*	Only models with extended servicing intervals (ESI)

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Fuel gauge sender, Fuel gauge, Coolant temperature gauge, Rev. counter, Fuel system pressurisation pump, Speedometer, Coolant shortage indicator sender, Buzzer and gong, Dash panel insert

G	Fuel gauge sender
G1	Fuel gauge
G3	Coolant temperature gauge
G5	Rev. counter
G6	Fuel system pressurisation pump
G21	Speedometer
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
H3	Buzzer and gong
J285	Control unit in dash panel insert
K	Dash panel insert
T3ai	3-pin connector
T5d	5-pin connector
T32c	32-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
*	Only models with all-wheel drive



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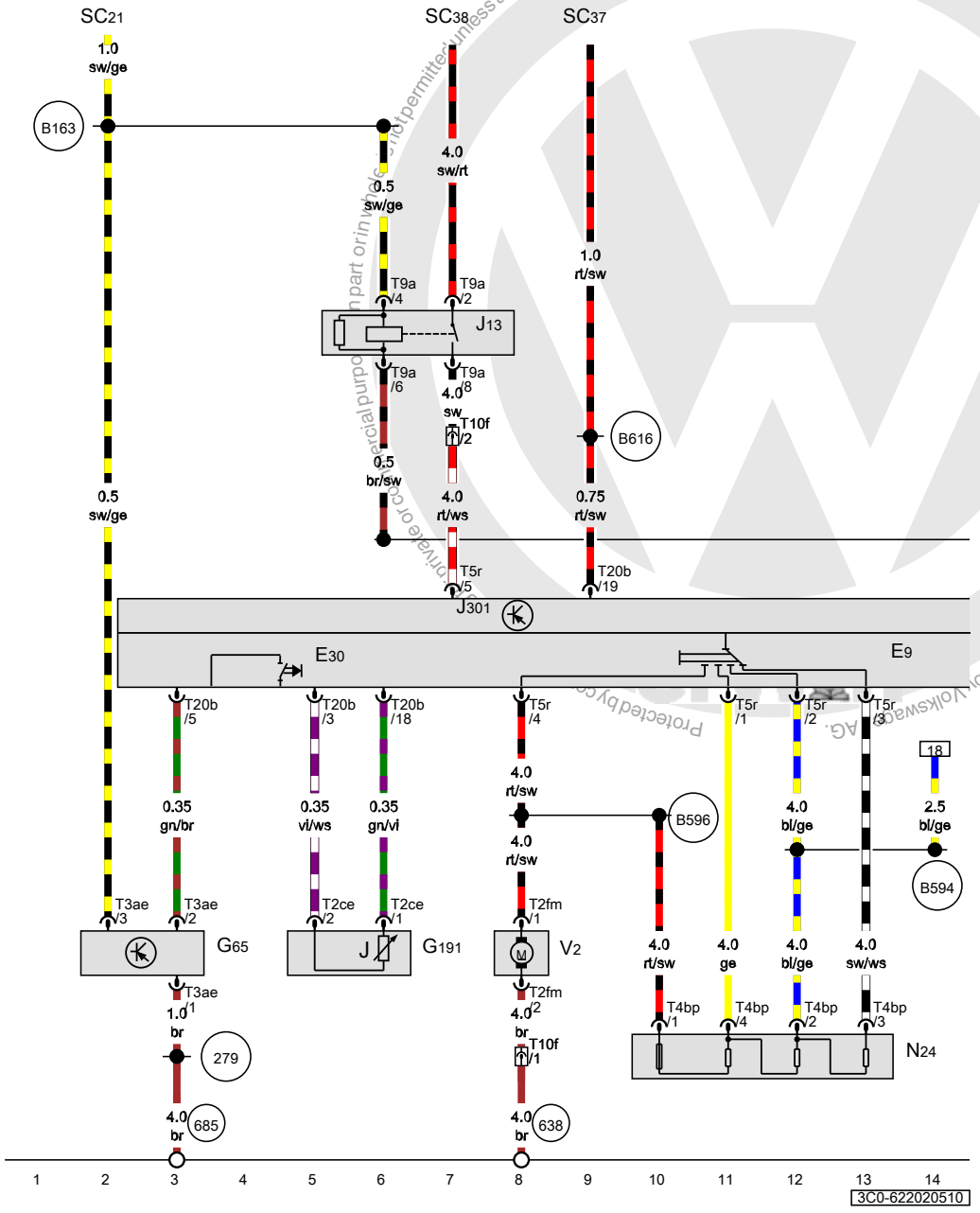
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Climatic

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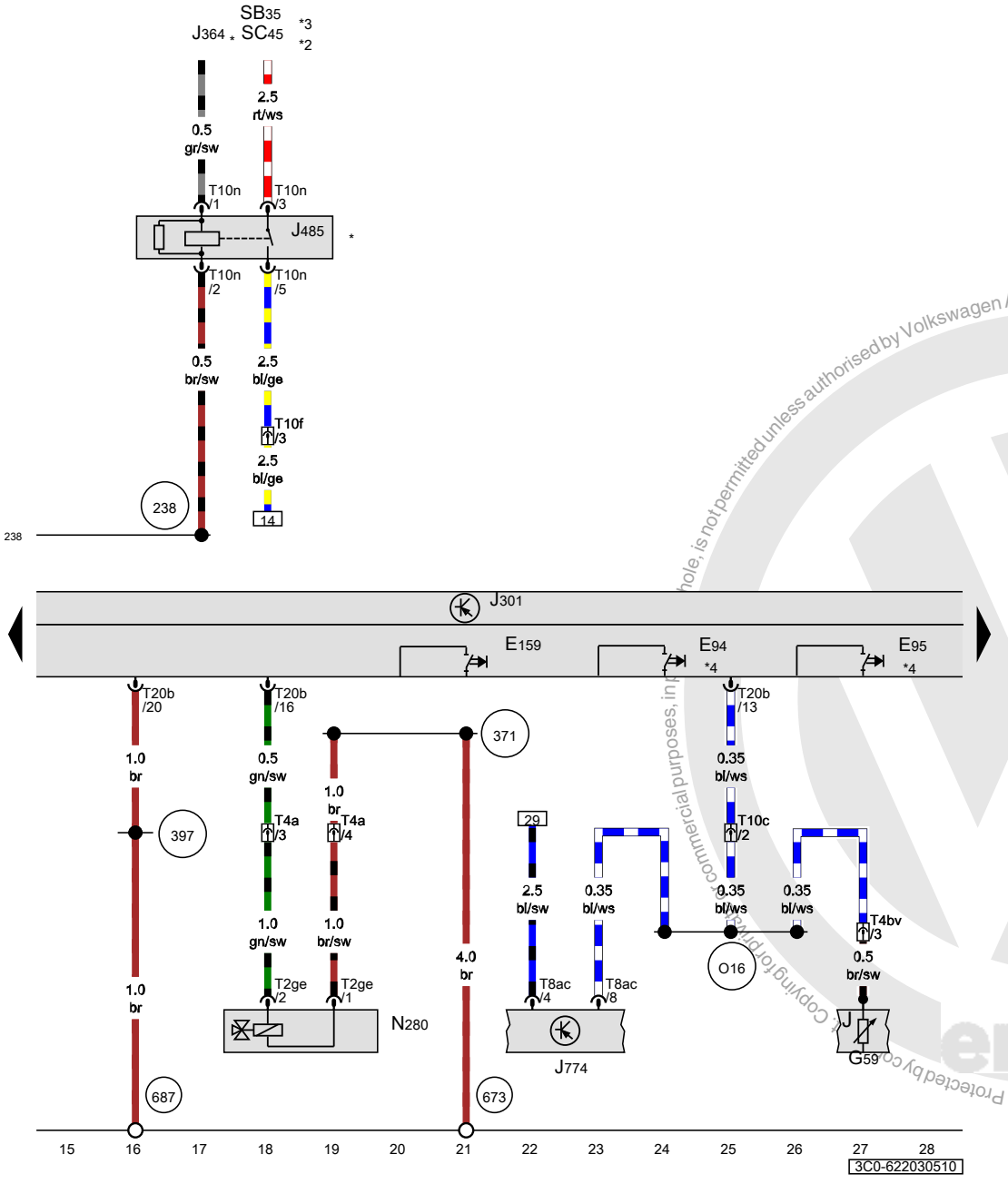


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High-pressure sender, Centre vent temperature sender, Fresh air blower relay, Fresh air blower series resistor with overheating fuse, Fresh air blower

E9	Fresh air blower switch
E30	Air conditioning system switch
G65	High-pressure sender
G191	Centre vent temperature sender
J13	Fresh air blower relay
J301	Air conditioning system control unit
N24	Fresh air blower series resistor with overheating fuse
SC21	Fuse 21 on fuse holder C
SC37	Fuse 37 on fuse holder C
SC38	Fuse 38 on fuse holder C
T2ce	2-pin connector
T2fm	2-pin connector
T3ae	3-pin connector
T4bp	4-pin connector
T5r	5-pin connector
T9a	9-pin connector
T10f	10-pin connector, on heater and air conditioner unit
T20b	20-pin connector
V2	Fresh air blower, black
238	Earth connection 1, in interior wiring harness
279	Earth connection 5, in interior wiring harness
638	Earth point, on right A-pillar
685	Earth point 1 at front of right longitudinal member
B163	Positive connection 1 (15), in interior wiring harness
B594	Connection 1, in Climatic wiring harness
B596	Connection 3, in Climatic wiring harness
B616	Positive connection 12 (30a), in interior wiring harness

Driver seat temperature sensor, Auxiliary heater control unit, Air conditioner compressor regulating valve



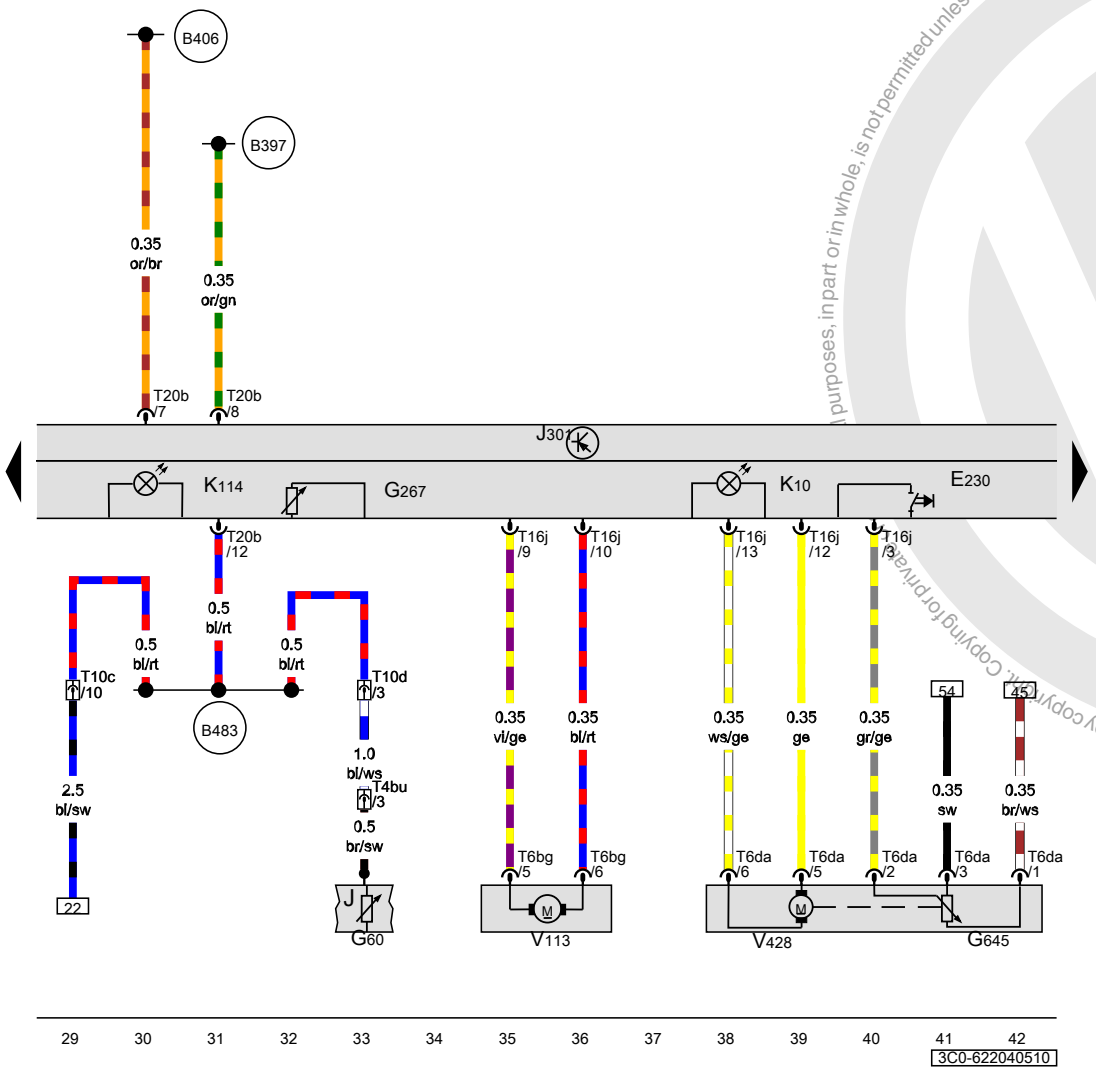
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E94	Heated driver seat regulator
E95	Heated front passenger seat regulator
E159	Fresh air and air recirculation flap switch
G59	Driver seat temperature sensor
J301	Air conditioning system control unit
J364	Auxiliary heater control unit
J485	Auxiliary heater operation relay
J774	Heated front seats control unit
N280	Air conditioner compressor regulating valve, on air conditioner compressor
SB35	Fuse 35 on fuse holder B
SC45	Fuse 45 on fuse holder C
T2ge	2-pin connector
T4a	4-pin connector, near starter
T4bv	4-pin connector
T8ac	8-pin connector
T10c	10-pin connector, under driver seat
T10f	10-pin connector, on heater and air conditioner unit
T10n	10-pin connector
T20b	20-pin connector
238	Earth connection 1, in interior wiring harness
371	Earth connection 6, in main wiring harness
397	Earth connection 32, in main wiring harness
673	Earth point 3, on front of left longitudinal member
687	Earth point 1, on centre tunnel
O16	Connection 5, in seat heating wiring harness
*	Only models with auxiliary coolant heater
*2	Only models with second battery
*3	Only models with no second battery
*4	Only models with seat heating

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Heated rear window button, Front passenger seat temperature sensor, Potentiometer for temperature selection rotary knob, Air recirculation flap control motor, Air distribution flap control motor

E230	Heated rear window button
G60	Front passenger seat temperature sensor
G267	Potentiometer for temperature selection rotary knob
G645	Potentiometer for air distribution flap control motor
J301	Air conditioning system control unit
K10	Heated rear window warning lamp
K114	Fresh air and air recirculation warning lamp
T4bu	4-pin connector
T6bg	6-pin connector
T6da	6-pin connector
T10c	10-pin connector, under driver seat
T10d	10-pin connector
T16j	16-pin connector
T20b	20-pin connector
V113	Air recirculation flap control motor
V428	Air distribution flap control motor, blue
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B483	Connection 19, in main wiring harness

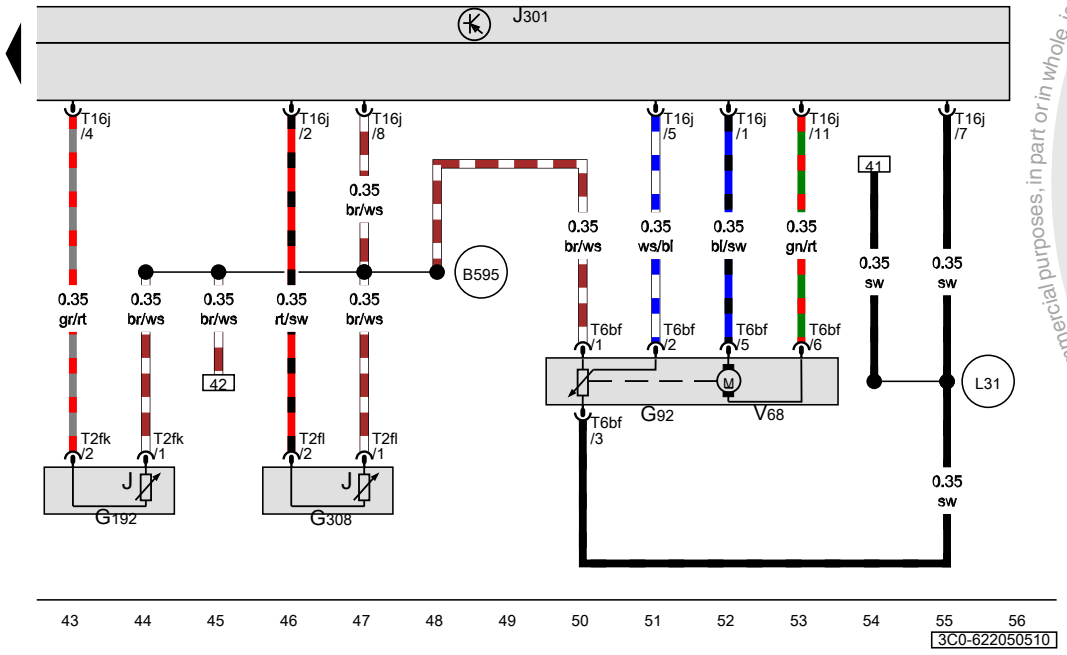


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Potentiometer for temperature flap control motor, Footwell vent temperature sender, Evaporator temperature sensor, Temperature flap control motor

G92	Potentiometer for temperature flap control motor
G192	Footwell vent temperature sender
G308	Evaporator temperature sensor
J301	Air conditioning system control unit
T2fk	2-pin connector
T2fl	2-pin connector
T6bf	6-pin connector
T16j	16-pin connector
V68	Temperature flap control motor
B595	Connection 2, in Climatic wiring harness
L31	Connection (5V), in air conditioning system wiring harness



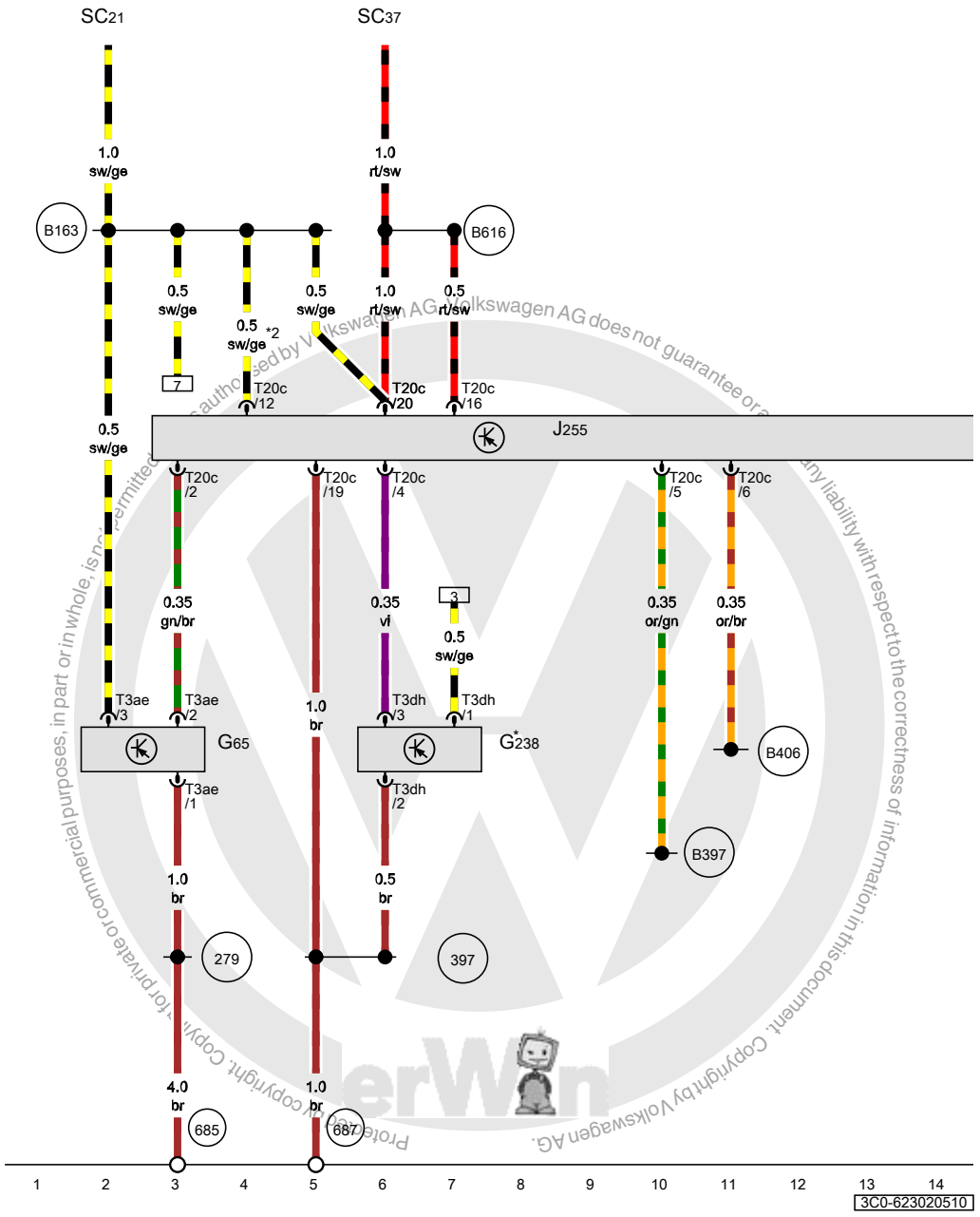
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Climatronic

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High-pressure sender, Climatronic control unit

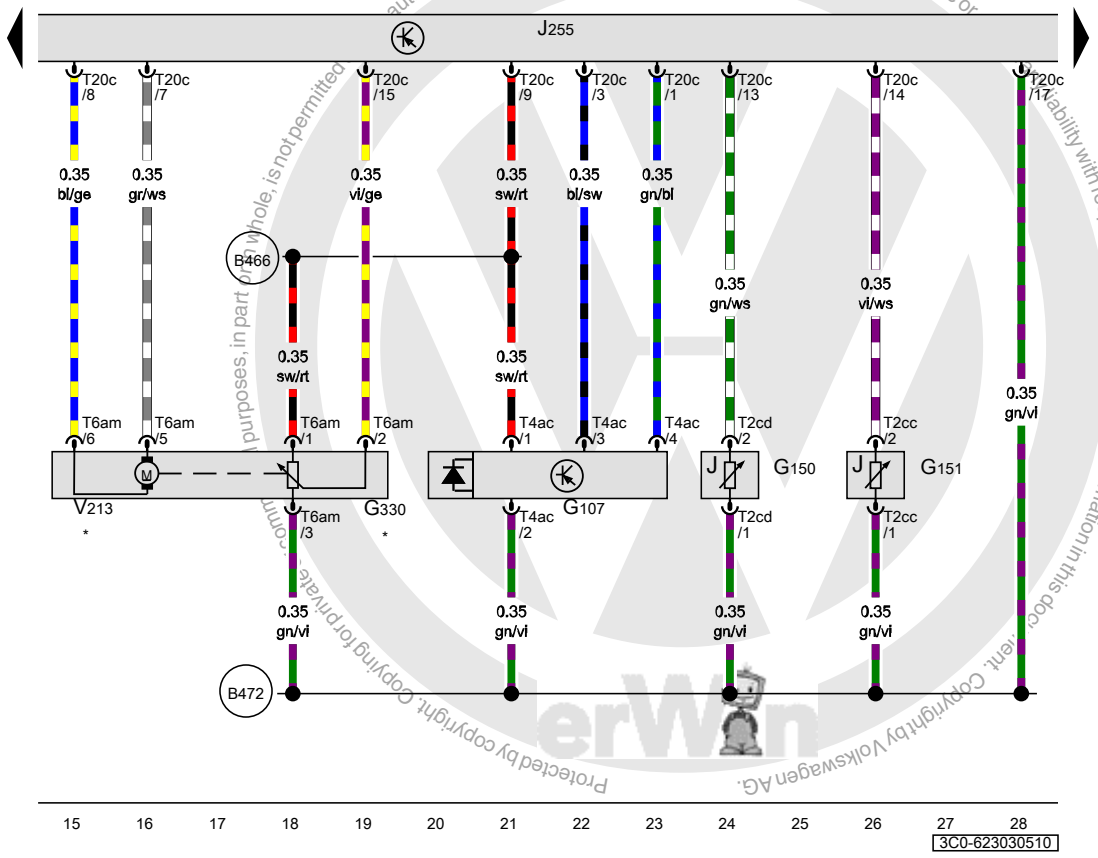
G65	High-pressure sender
G238	Air quality sensor
J255	Climatronic control unit
SC21	Fuse 21 on fuse holder C
SC37	Fuse 37 on fuse holder C
T3ae	3-pin connector
T3dh	3-pin connector
T20c	20-pin connector
279	Earth connection 5, in interior wiring harness
397	Earth connection 32, in main wiring harness
685	Earth point 1 at front of right longitudinal member
687	Earth point 1, on centre tunnel
B163	Positive connection 1 (15), in interior wiring harness
B397	Connection 1 (convenience CAN bus, high), in main wiring harness
B406	Connection 1 (convenience CAN bus, low), in main wiring harness
B616	Positive connection 12 (30a), in interior wiring harness
*	Not for American markets
*2	Only models with seat heating

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Sunlight penetration photosensor, Left vent temperature sender, Right vent temperature sender, Potentiometer for indirect ventilation flap control motor, Climatronic control unit, Indirect ventilation flap control motor

G107	Sunlight penetration photosensor
G150	Left vent temperature sender
G151	Right vent temperature sender
G330	Potentiometer for indirect ventilation flap control motor
J255	Climatronic control unit
T2cc	2-pin connector
T2cd	2-pin connector
T4ac	4-pin connector
T6am	6-pin connector
T20c	20-pin connector
V213	Indirect ventilation flap control motor
B466	Connection 2, in main wiring harness
B472	Connection 8, in main wiring harness
*	Not for American markets

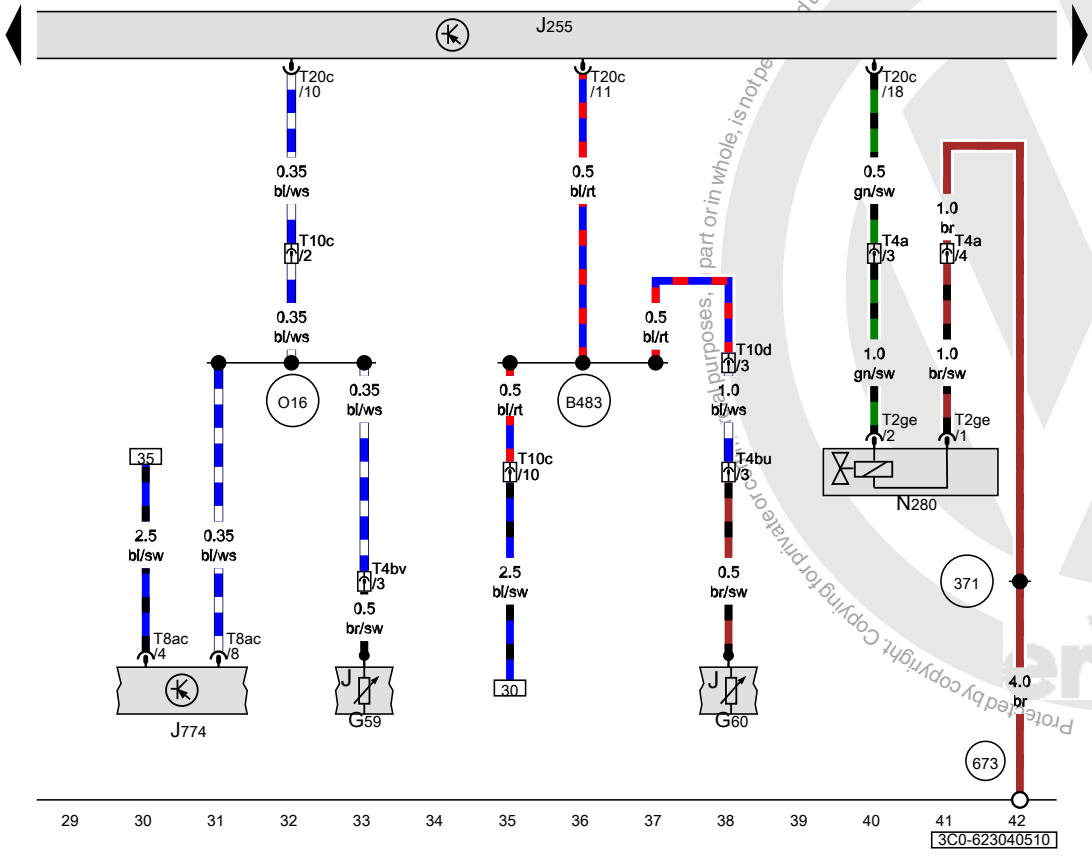


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Driver seat temperature sensor, Front passenger seat temperature sensor, Climatronic control unit, Air conditioner compressor regulating valve

G59	Driver seat temperature sensor
G60	Front passenger seat temperature sensor
J255	Climatronic control unit
J774	Heated front seats control unit
N280	Air conditioner compressor regulating valve
T2ge	2-pin connector
T4a	4-pin connector
T4bu	4-pin connector
T4bv	4-pin connector
T8ac	8-pin connector
T10c	10-pin connector, under driver seat
T10d	10-pin connector
T20c	20-pin connector
371	Earth connection 6, in main wiring harness
673	Earth point 3, on front of left longitudinal member
B483	Connection 19, in main wiring harness
O16	Connection 5, in seat heating wiring harness

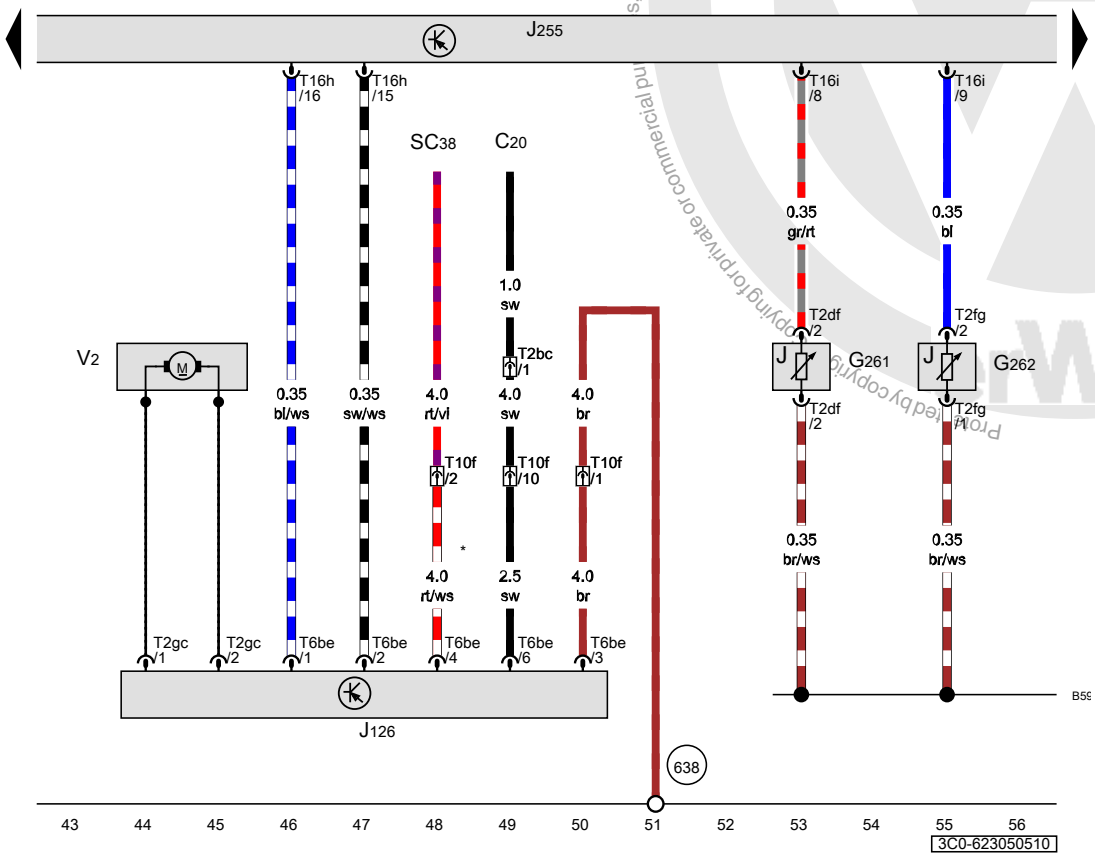


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Left footwell vent temperature sender, Right footwell vent temperature sender, Fresh air blower control unit, Climatronic control unit

C20	Solar cells
G261	Left footwell vent temperature sender
G262	Right footwell vent temperature sender
J126	Fresh air blower control unit
J255	Climatronic control unit
SC38	Fuse 38 on fuse holder C
T2bc	2-pin connector
T2df	2-pin connector
T2fg	2-pin connector
T2gc	2-pin connector
T6be	6-pin connector
T10f	10-pin connector
T16h	16-pin connector
T16i	16-pin connector
V2	Fresh air blower
638	Earth point, on right A-pillar
B593	Connection 2, in Climatronic wiring harness
*	Only models with solar roof

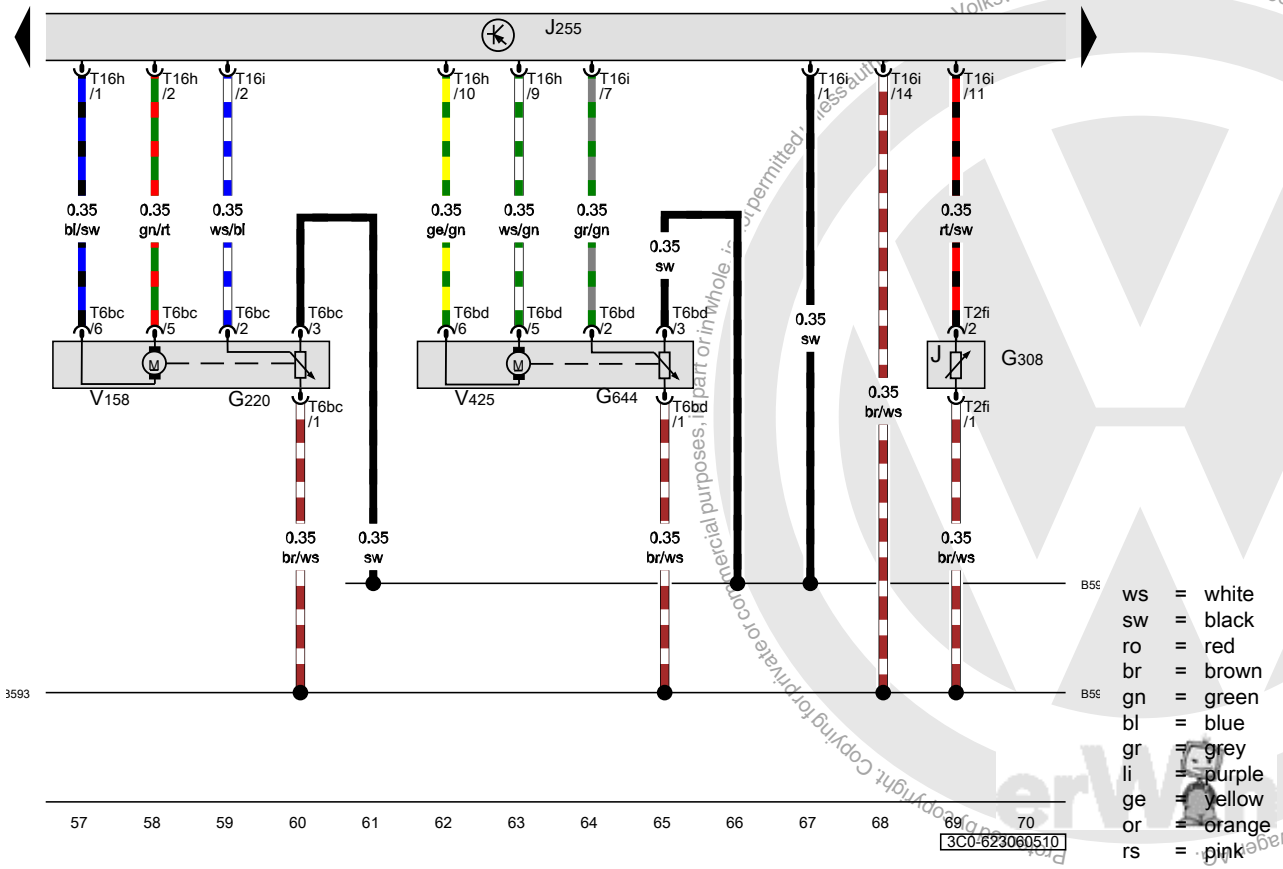


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Evaporator temperature sensor, Climatronic control unit

G220	Potentiometer for left temperature flap control motor
G308	Evaporator temperature sensor
G644	Potentiometer for fresh air/recirculated air, air flow flap control motor
J255	Climatronic control unit
T2fi	2-pin connector
T6bc	6-pin connector
T6bd	6-pin connector
T16h	16-pin connector
T16i	16-pin connector
V158	Left temperature flap control motor
V425	Fresh air/recirculated air, air flow flap control motor
B592	Connection 1, in Climatronic wiring harness
B593	Connection 2, in Climatronic wiring harness



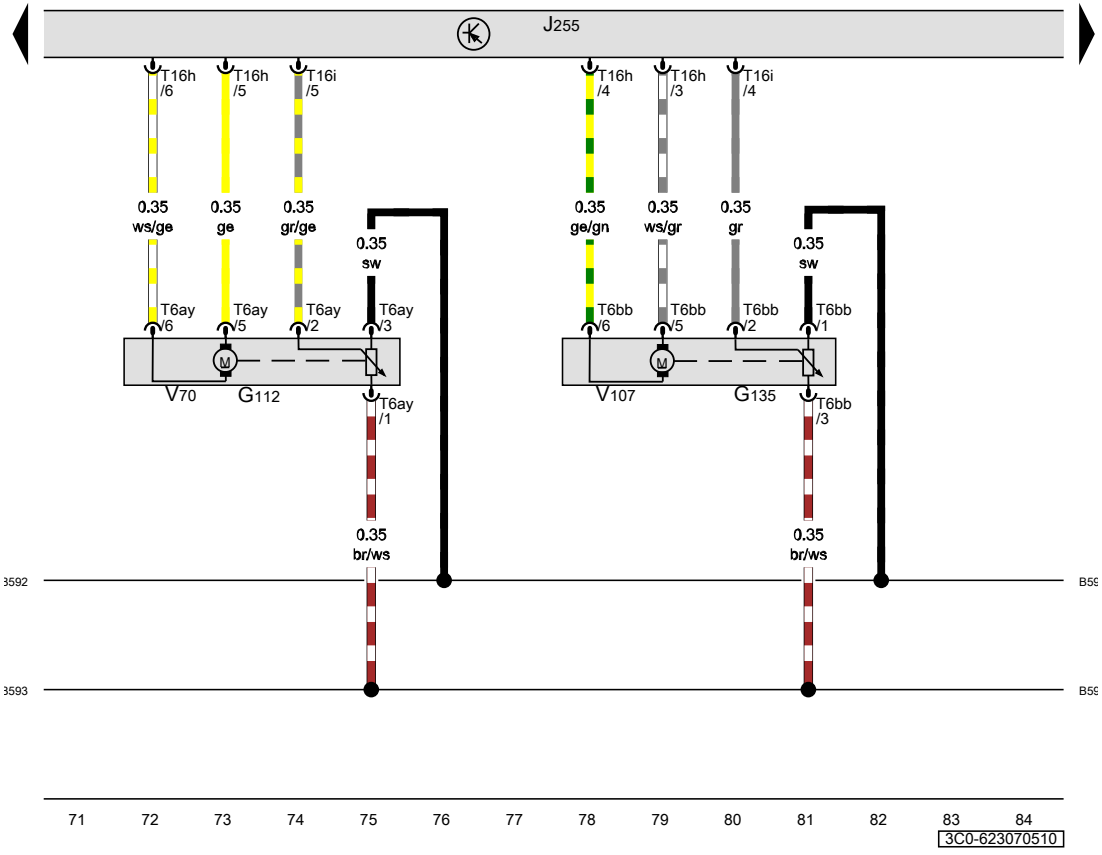
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Potentiometer for centre flap servomotor, Climatronic control unit, Centre flap control motor, Defroster flap control motor

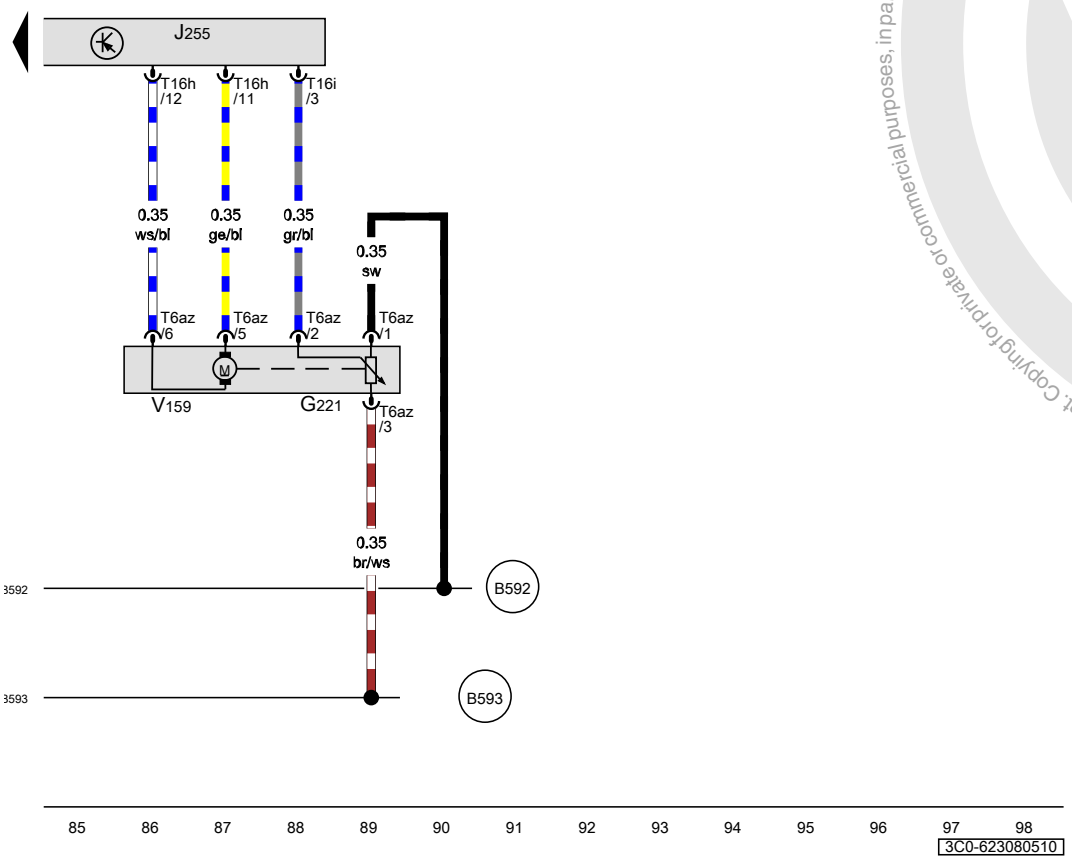
G112	Potentiometer for centre flap servomotor
G135	Potentiometer for defroster flap control motor
J255	Climatronic control unit
T6ay	6-pin connector
T6bb	6-pin connector
T16h	16-pin connector
T16i	16-pin connector
V70	Centre flap control motor
V107	Defroster flap control motor
B592	Connection 1, in Climatronic wiring harness
B593	Connection 2, in Climatronic wiring harness



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Climatronic control unit, Right temperature flap control motor

G221	Potentiometer for right temperature flap control motor
J255	Climatronic control unit
T6az	6-pin connector
T16h	16-pin connector
T16i	16-pin connector
V159	Right temperature flap control motor
B592	Connection 1, in Climatronic wiring harness
B593	Connection 2, in Climatronic wiring harness



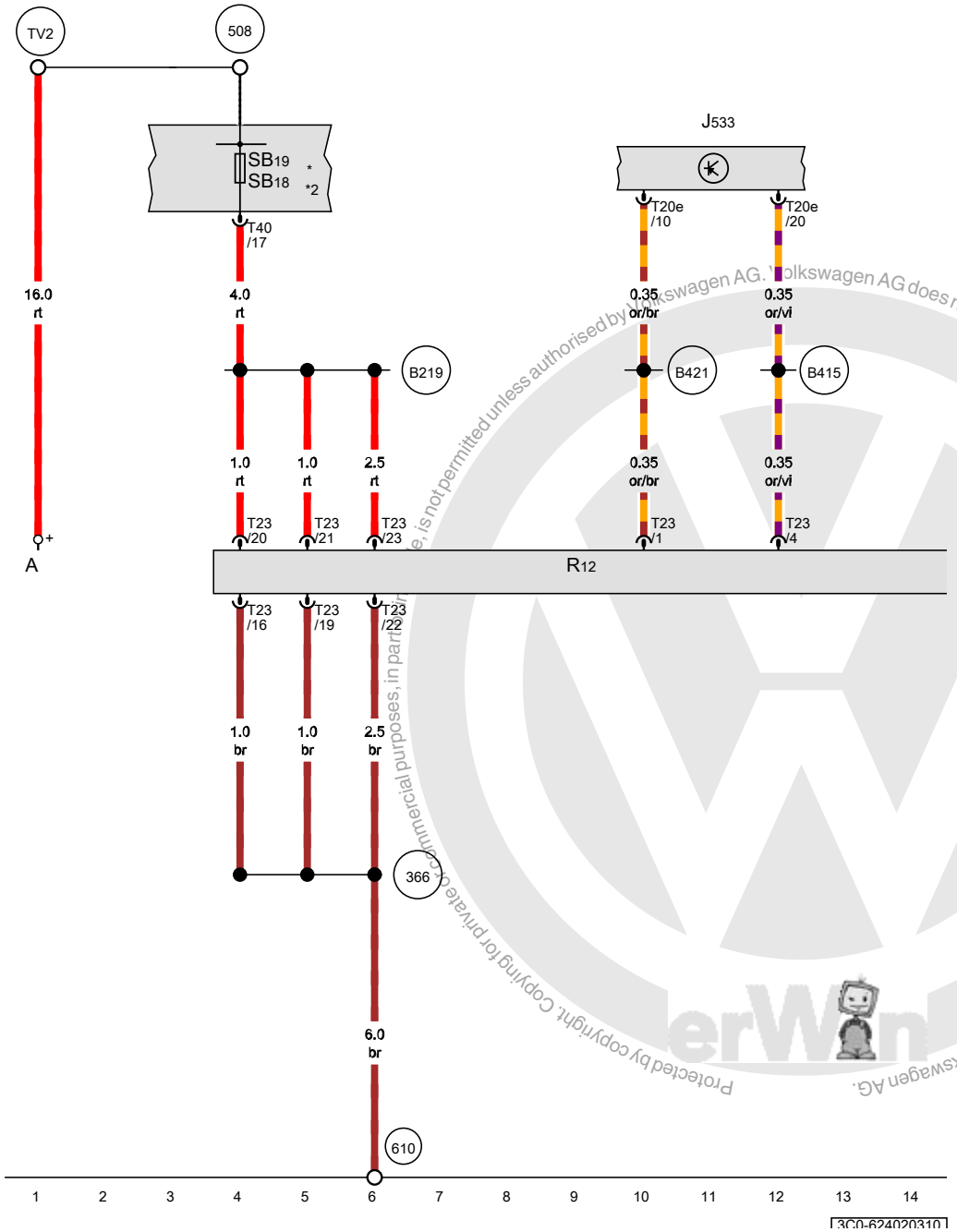
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Sound system DYNAUDIO

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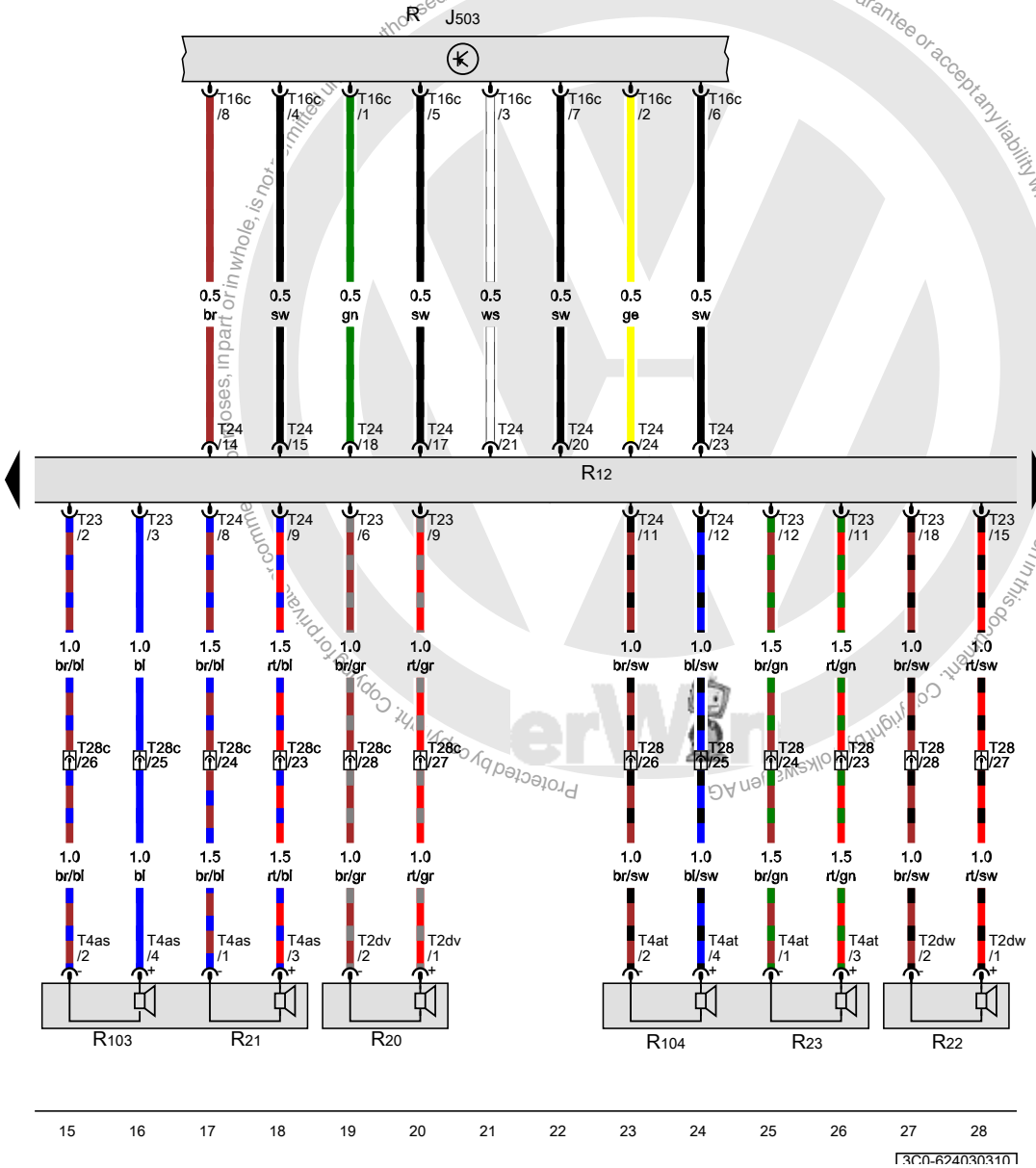


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Data bus diagnostic interface, Amplifier, Fuse 18 on fuse holder B, Fuse 19 on fuse holder B

A	Battery
J533	Data bus diagnostic interface
R12	Amplifier
SB18	Fuse 18 on fuse holder B
SB19	Fuse 19 on fuse holder B
T20e	20-pin connector
T23	23-pin connector
T40	40-pin connector
366	Earth connection 1, in main wiring harness
508	Threaded connection (30) on E-box
610	Earth point (audio), front below centre console
B219	Positive connection 4 (30a), in interior wiring harness
B415	Connection 1 (infotainment CAN bus, high), in main wiring harness
B421	Connection 1 (infotainment CAN bus, low), in main wiring harness
TV2	Terminal 30 wiring junction
*	Fuses in E-box, Low
*2	Fuses in E-box, High

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Control unit with display for radio and navigation, Amplifier, Front left treble loudspeaker, Front left bass loudspeaker, Front right treble loudspeaker, Front right bass loudspeaker, Front left mid-range loudspeaker, Front right mid-range loudspeaker

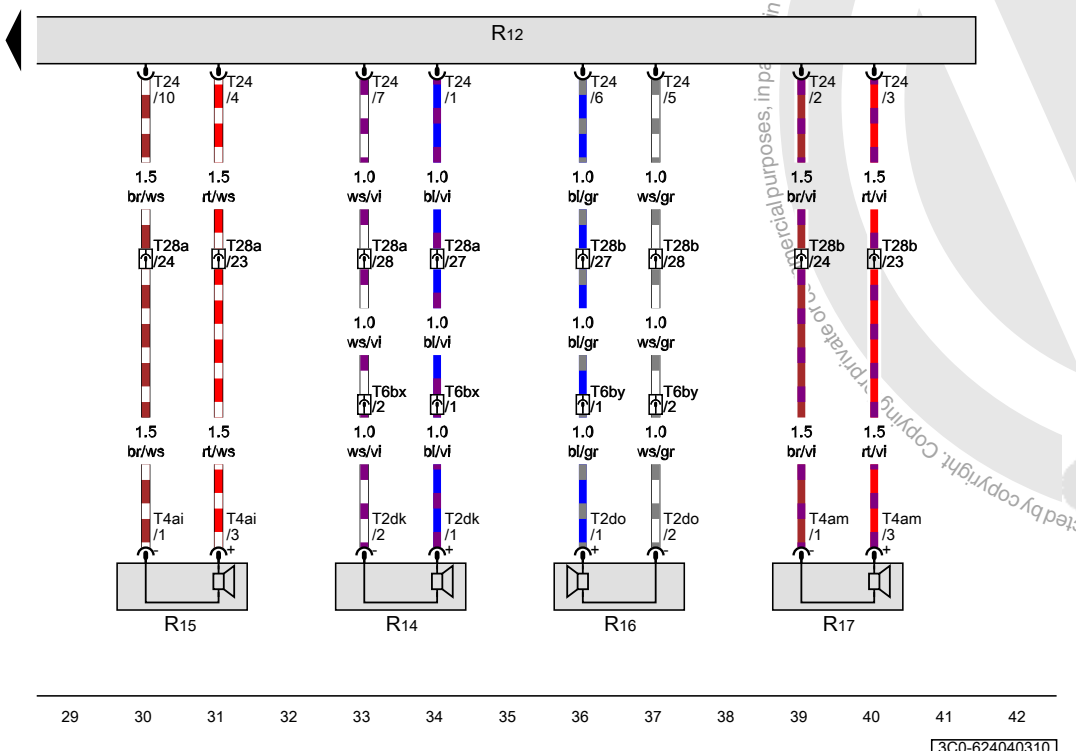
J503	Control unit with display for radio and navigation
R	Radio
R12	Amplifier
R20	Front left treble loudspeaker
R21	Front left bass loudspeaker
R22	Front right treble loudspeaker
R23	Front right bass loudspeaker
R103	Front left mid-range loudspeaker
R104	Front right mid-range loudspeaker
T2dv	2-pin connector
T2dw	2-pin connector
T4as	4-pin connector
T4at	4-pin connector
T16c	16-pin connector
T23	23-pin connector
T24	24-pin connector
T28	28-pin connector
T28c	28-pin connector

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Amplifier, Rear left treble loudspeaker, Rear left bass loudspeaker, Rear right treble loudspeaker, Rear right bass loudspeaker

R12	Amplifier
R14	Rear left treble loudspeaker
R15	Rear left bass loudspeaker
R16	Rear right treble loudspeaker
R17	Rear right bass loudspeaker
T2dk	2-pin connector
T2do	2-pin connector
T4ai	4-pin connector
T4am	4-pin connector
T6bx	6-pin connector
T6by	6-pin connector
T24	24-pin connector
T28a	28-pin connector
T28b	28-pin connector



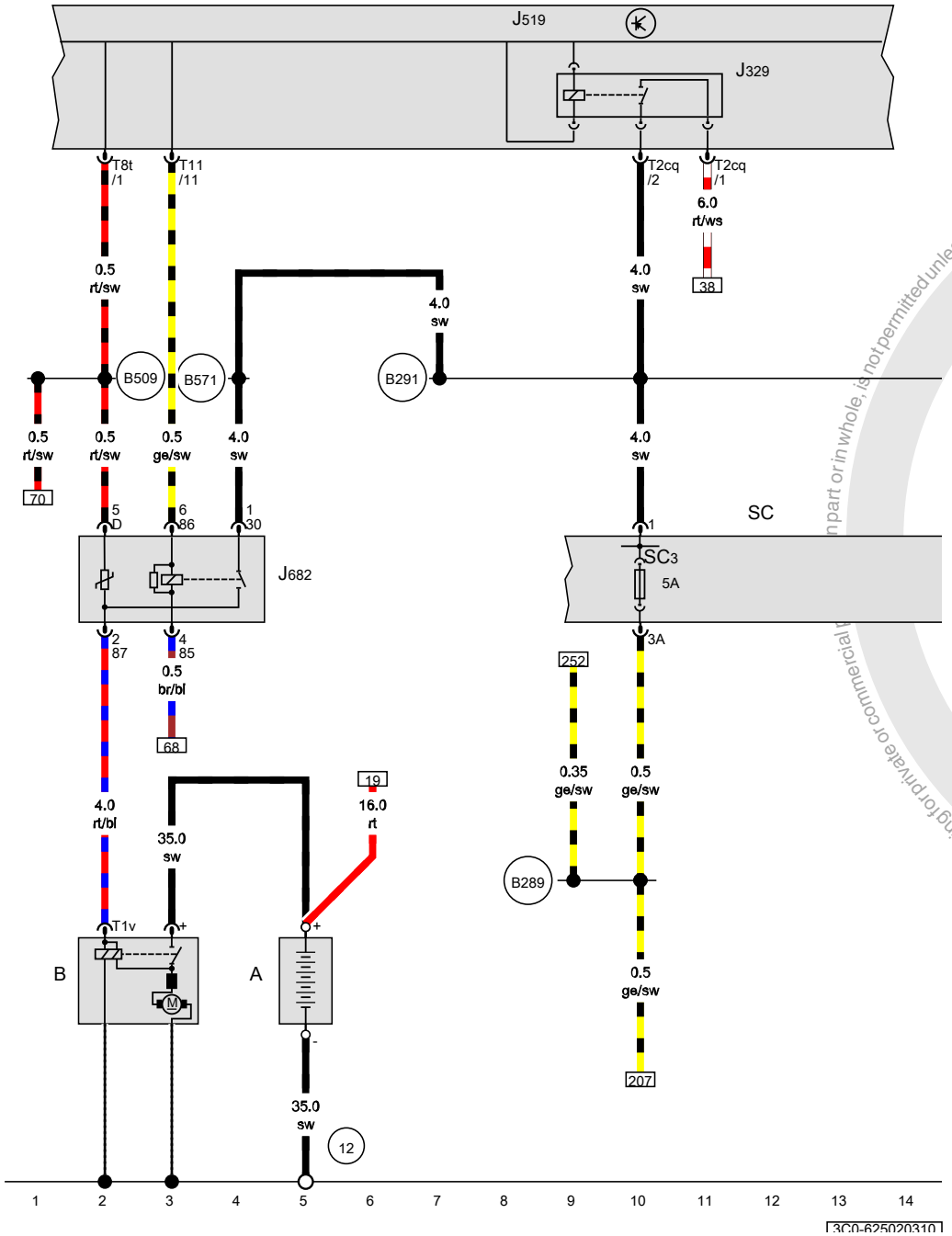
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2.0l petrol engine , CBFA

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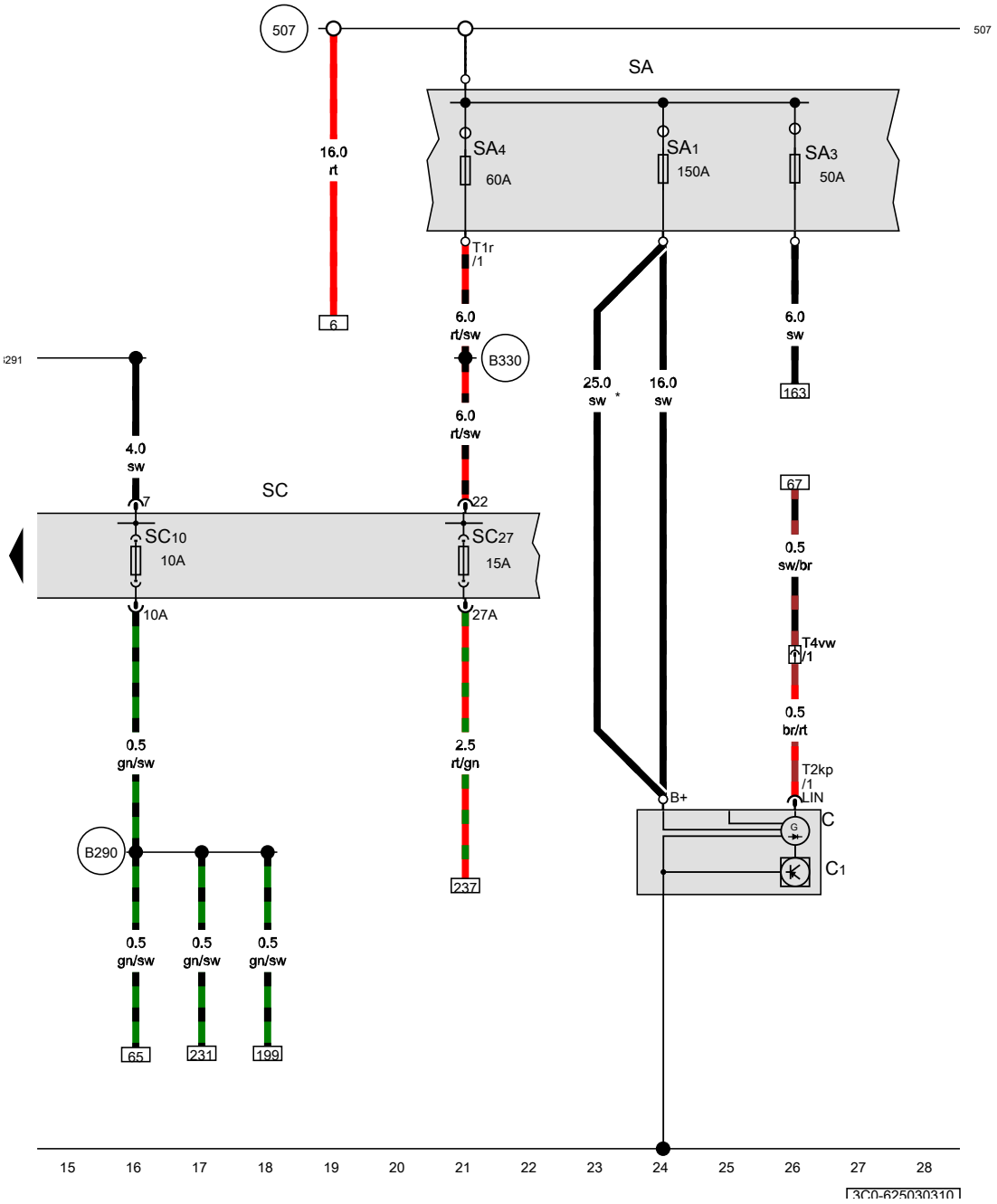


Battery, Starter, Terminal 15 voltage supply relay, Onboard supply control unit, Terminal 50 voltage supply relay, Fuse holder C

A	Battery
B	Starter
J329	Terminal 15 voltage supply relay
J519	Onboard supply control unit
J682	Terminal 50 voltage supply relay
SC	Fuse holder C
SC3	Fuse 3 on fuse holder C
T1r	Single connector
T1v	Single connector
T2cq	2-pin connector
T8t	8-pin connector
T11	11-pin connector
12	Earth point, on left in engine compartment
B289	Positive connection 13 (15a) in main wiring harness
B291	Positive connection 15 (15a) in main wiring harness
B509	Connection 3 (diagnosis), in main wiring harness
B571	Connection 38, in main wiring harness

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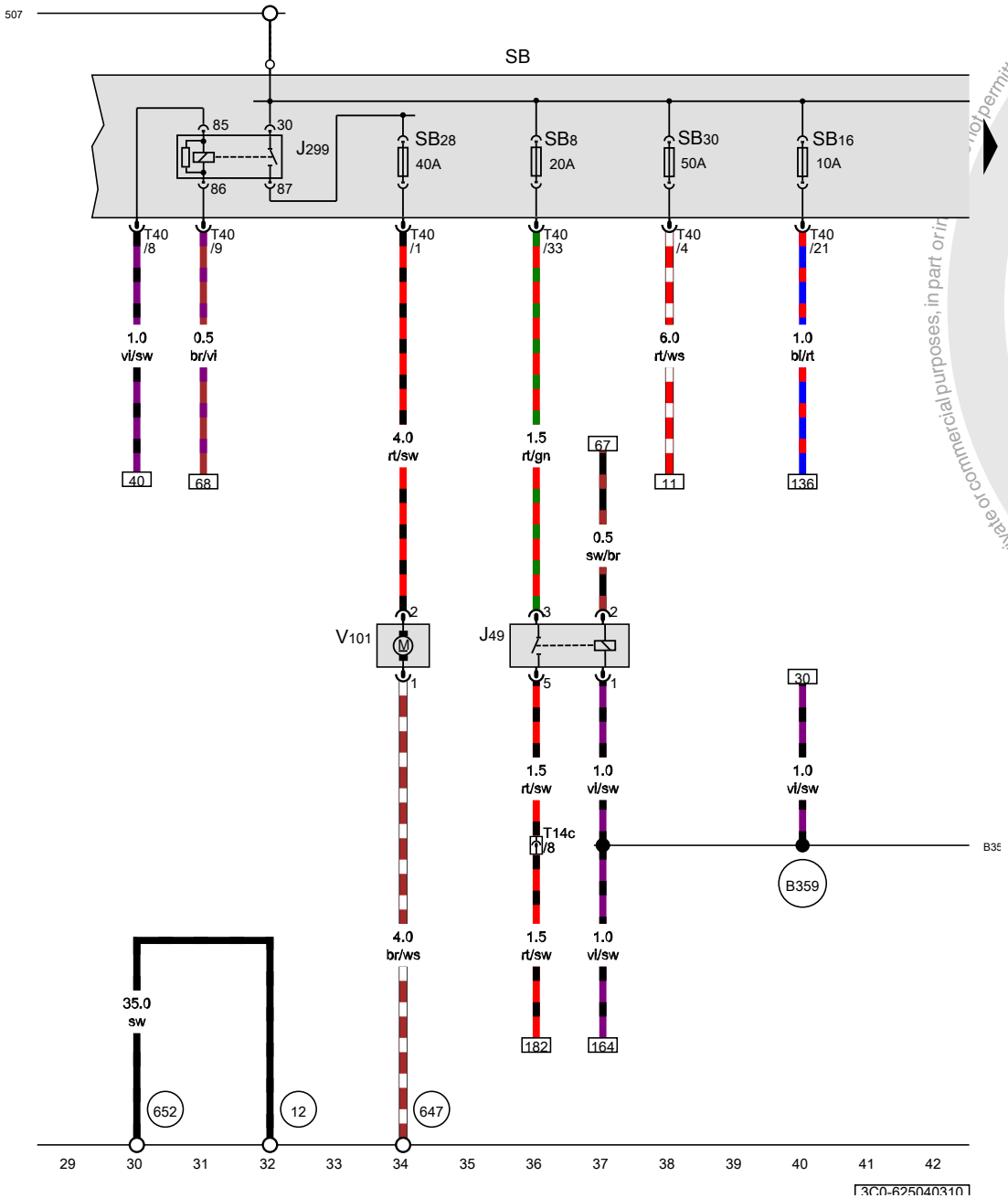


Alternator, Fuse holder A, Fuse holder C

C	Alternator
C1	Voltage regulator
SA	Fuse holder A
SA1	Fuse 1 in fuse holder A
SA3	Fuse 3 in fuse holder A
SA4	Fuse 4 in fuse holder A
SC	Fuse holder C
SC10	Fuse 10 on fuse holder C
SC27	Fuse 27 on fuse holder C
T1r	Single connector
T2kp	2-pin connector
T4vw	4-pin connector, near starter
507	Threaded connection (30), on battery fuse holder
B290	Positive connection 14 (15a) in main wiring harness
B291	Positive connection 15 (15a) in main wiring harness
B330	Positive connection 16 (30a) in main wiring harness
*	Only models with 140A alternator

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Secondary air pump relay, Fuse holder B, Secondary air pump motor, Earth point, engine and gearbox earth

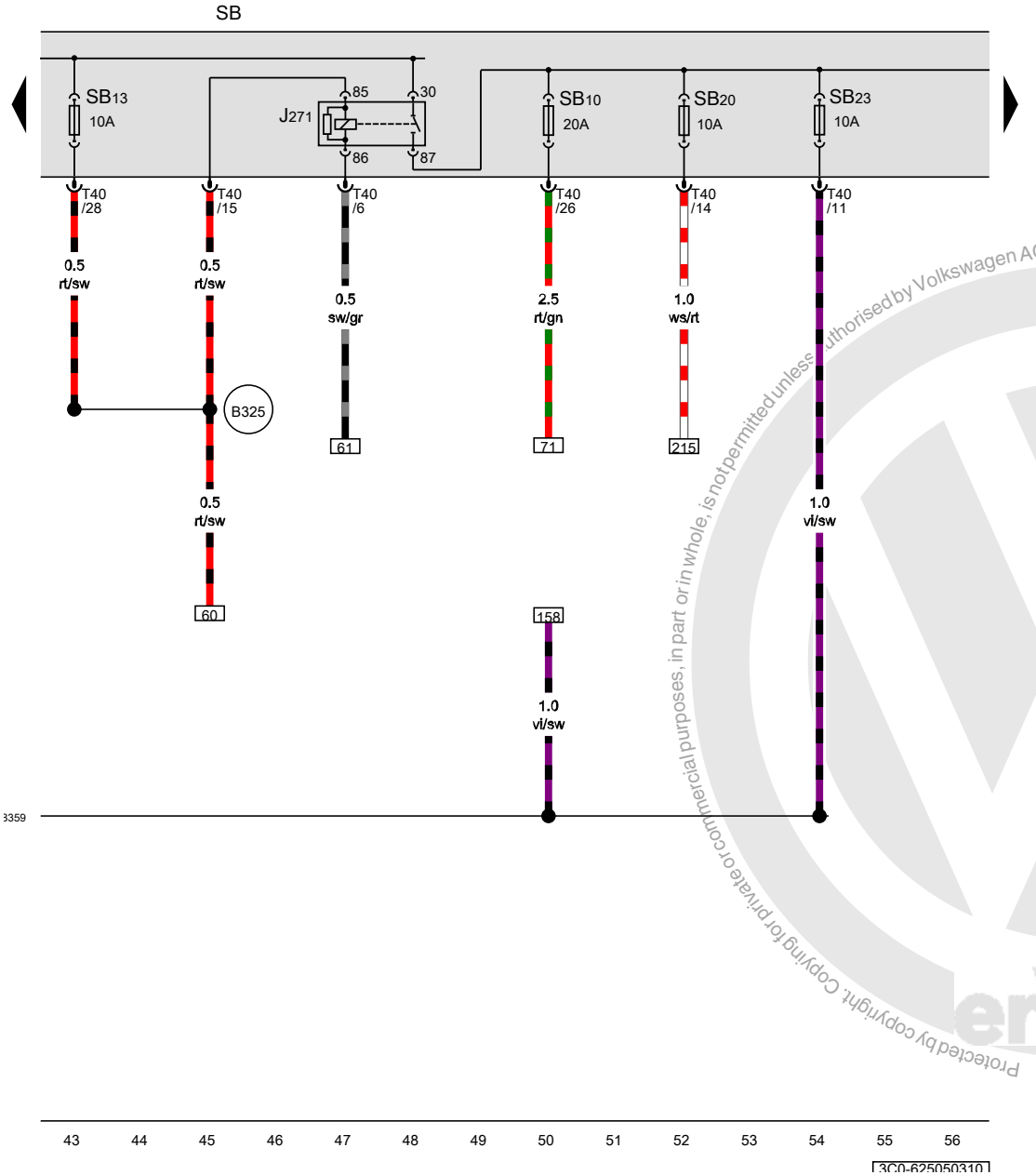
J49	Electric fuel pump 2 relay
J299	Secondary air pump relay
SB	Fuse holder B
SB8	Fuse 8 on fuse holder B
SB16	Fuse 16 on fuse holder B
SB28	Fuse 28 on fuse holder B
SB30	Fuse 30 on fuse holder B
T14c	14-pin connector, on left in engine compartment
T40	40-pin connector
V101	Secondary air pump motor
12	Earth point, on left in engine compartment
507	Threaded connection (30), on battery fuse holder
647	Earth point 3, on bulkhead
652	Earth point, engine and gearbox earth
B359	Positive connection 10 (87a) in main wiring harness

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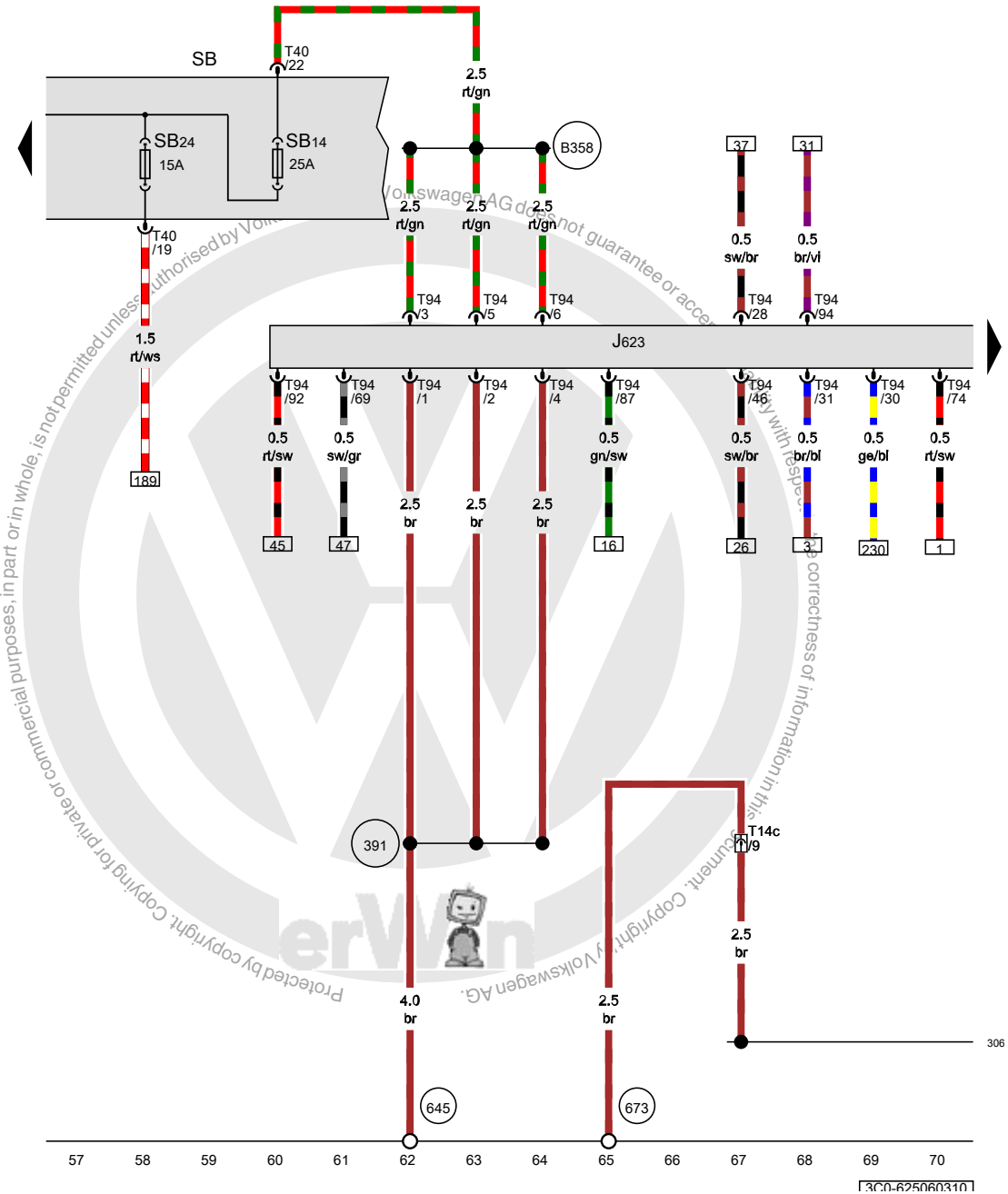
Main relay, Fuse holder B

J271	Main relay
SB	Fuse holder B
SB10	Fuse 10 on fuse holder B
SB13	Fuse 13 on fuse holder B
SB20	Fuse 20 on fuse holder B
SB23	Fuse 23 on fuse holder B
T40	40-pin connector
B325	Positive connection 11 (30a) in main wiring harness
B359	Positive connection 10 (87a) in main wiring harness



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Engine control unit, Fuse holder B

J623	Engine control unit, central in plenum chamber
SB	Fuse holder B
SB14	Fuse 14 on fuse holder B
SB24	Fuse 24 on fuse holder B
T14c	14-pin connector
T40	40-pin connector
T94	94-pin connector

306 Earth connection (ignition coils), in engine prewiring harness

391 Earth connection 26, in main wiring harness

645 Earth point 1, on bulkhead

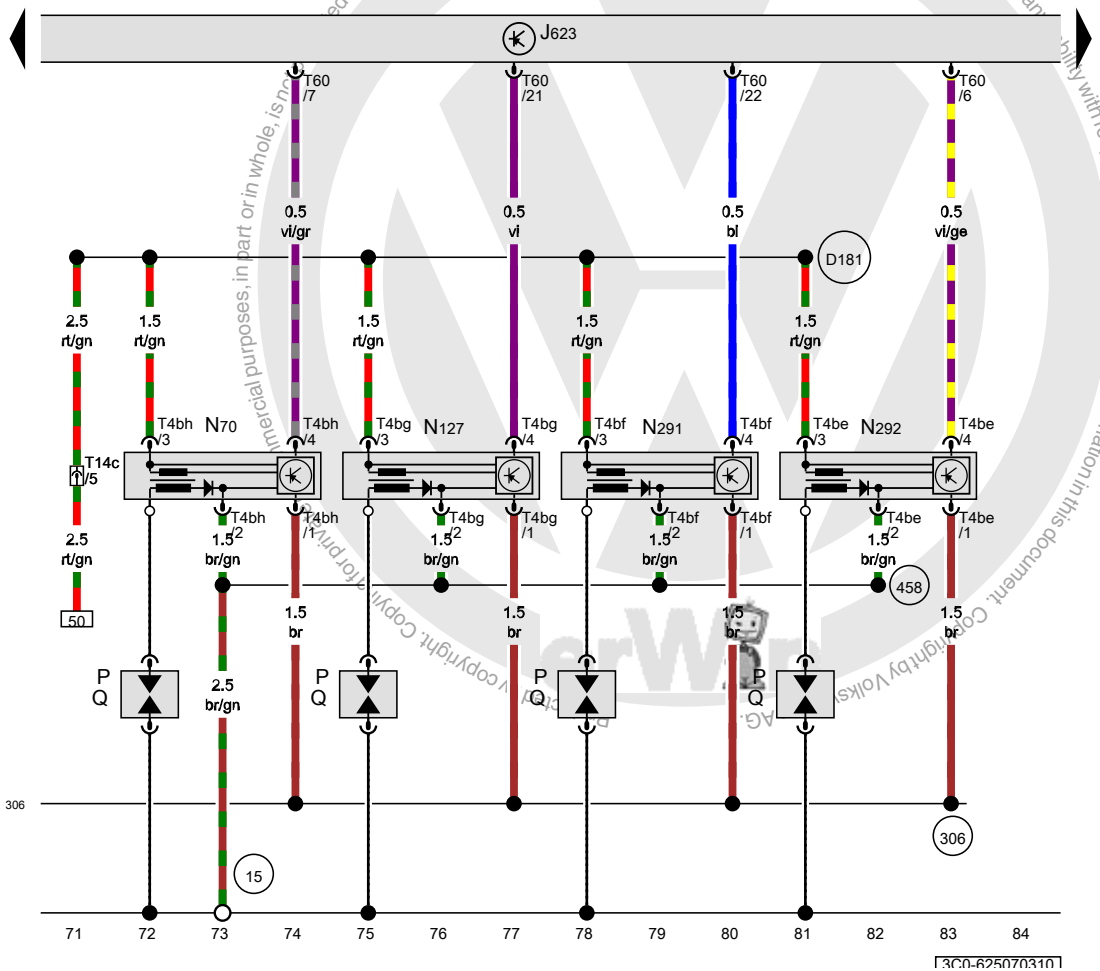
673 Earth point 3, on front of left longitudinal member

B358 Positive connection 9 (87a) in main wiring harness

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Engine control unit, Ignition coil 1 with output stage, Ignition coil 2 with output stage, Ignition coil 3 with output stage, Ignition coil 4 with output stage, Spark plug connector, Spark plugs

J623	Engine control unit, central in plenum chamber
N70	Ignition coil 1 with output stage
N127	Ignition coil 2 with output stage
N291	Ignition coil 3 with output stage
N292	Ignition coil 4 with output stage
P	Spark plug connector
Q	Spark plugs
T4be	4-pin connector
T4bf	4-pin connector
T4bg	4-pin connector
T4bh	4-pin connector
T14c	14-pin connector
T60	60-pin connector
15	Earth point, on cylinder head
306	Earth connection (ignition coils), in engine prewiring harness
458	Earth point 3, engine prewiring harness
D181	Connection 2 (87a), in engine compartment wiring harness

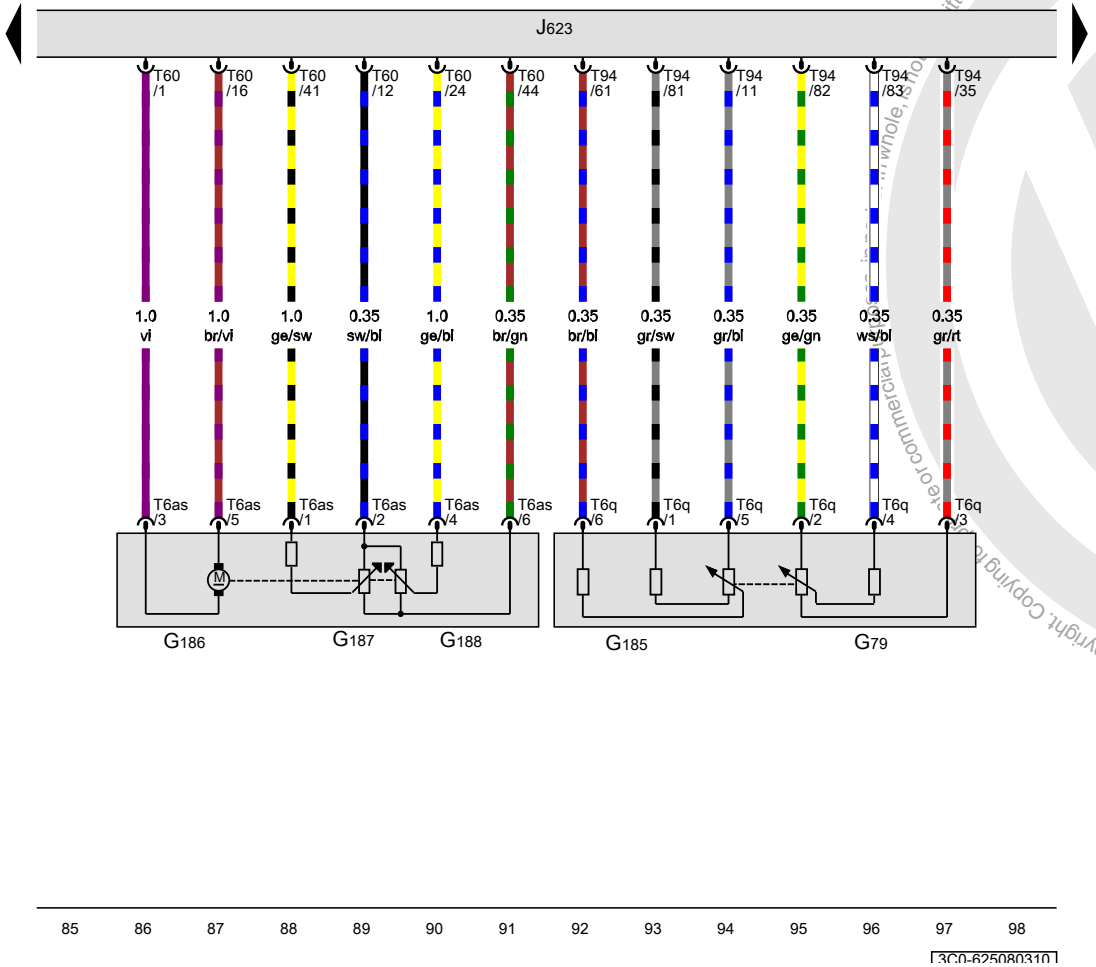


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Accelerator position sender, Throttle valve drive for electric throttle, Engine control unit

G79	Accelerator position sender
G185	Accelerator position sender 2
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
J623	Engine control unit, central in plenum chamber
T6as	6-pin connector
T6q	6-pin connector
T60	60-pin connector
T94	94-pin connector

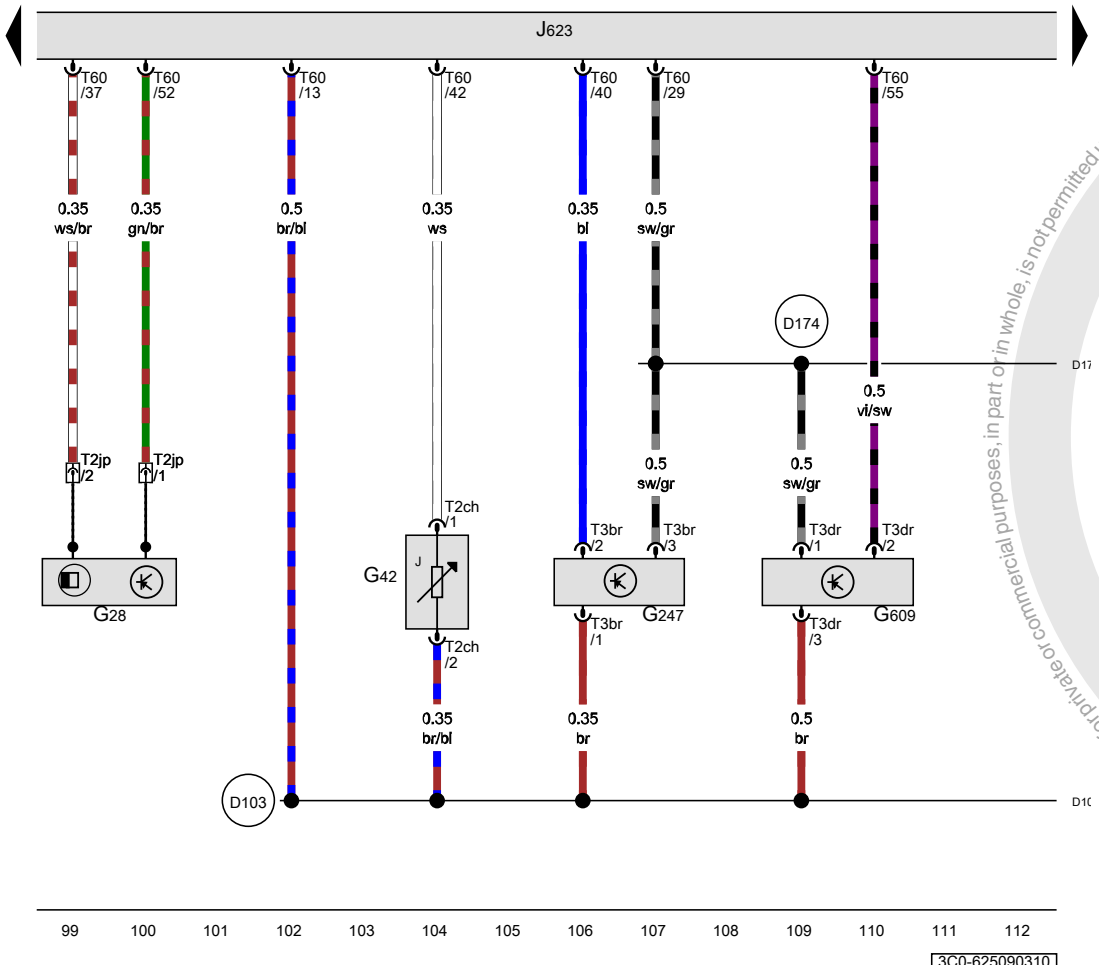


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Engine speed sender, Intake air temperature sender, Fuel pressure sender, Sender 1 for secondary air pressure, Engine control unit

G28	Engine speed sender
G42	Intake air temperature sender
G247	Fuel pressure sender
G609	Sender 1 for secondary air pressure
J623	Engine control unit, central in plenum chamber
T2ch	2-pin connector
T2jp	2-pin connector
T3br	3-pin connector
T3dr	3-pin connector
T60	60-pin connector
D103	Connection 3 in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness

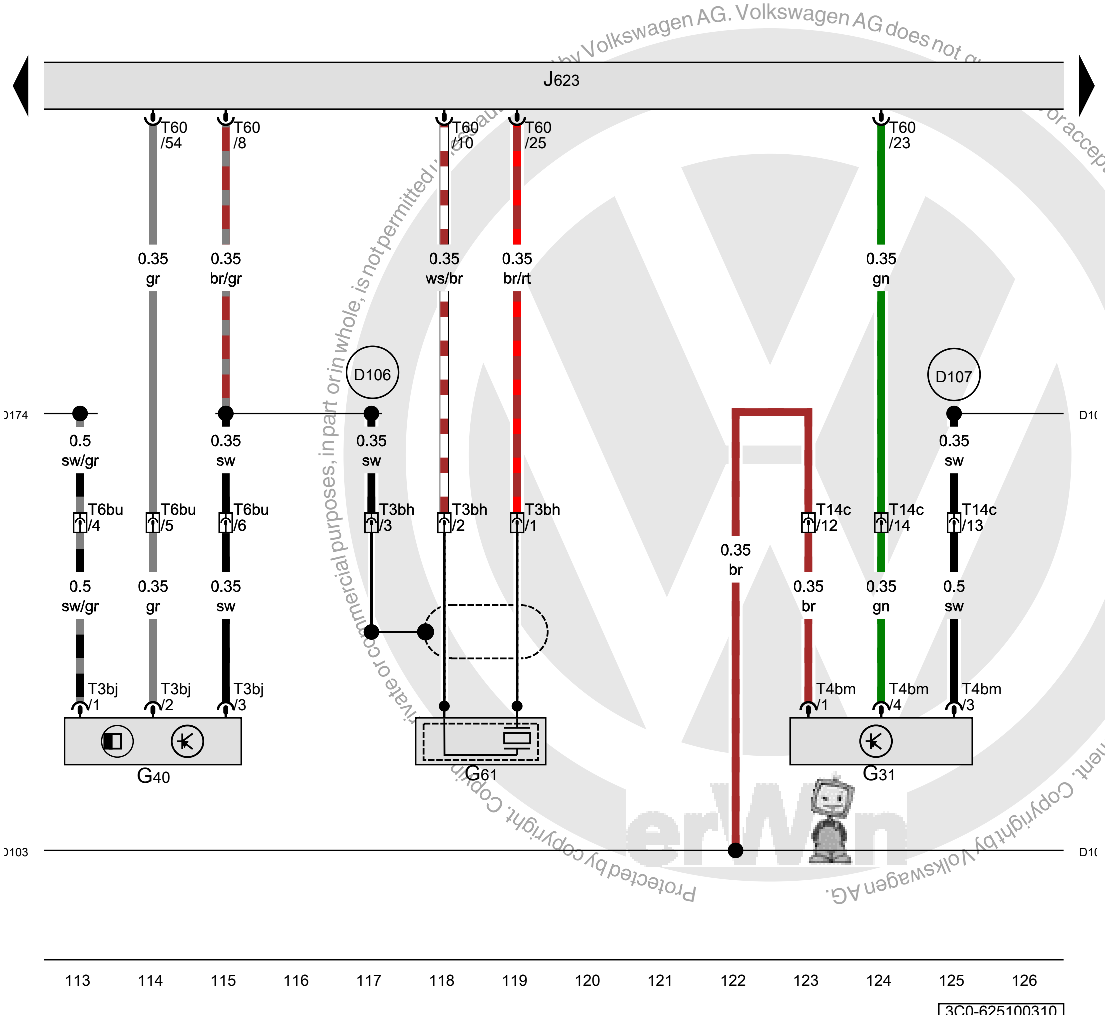


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Charge pressure sender, Hall sender, Knock sensor 1, Engine control unit

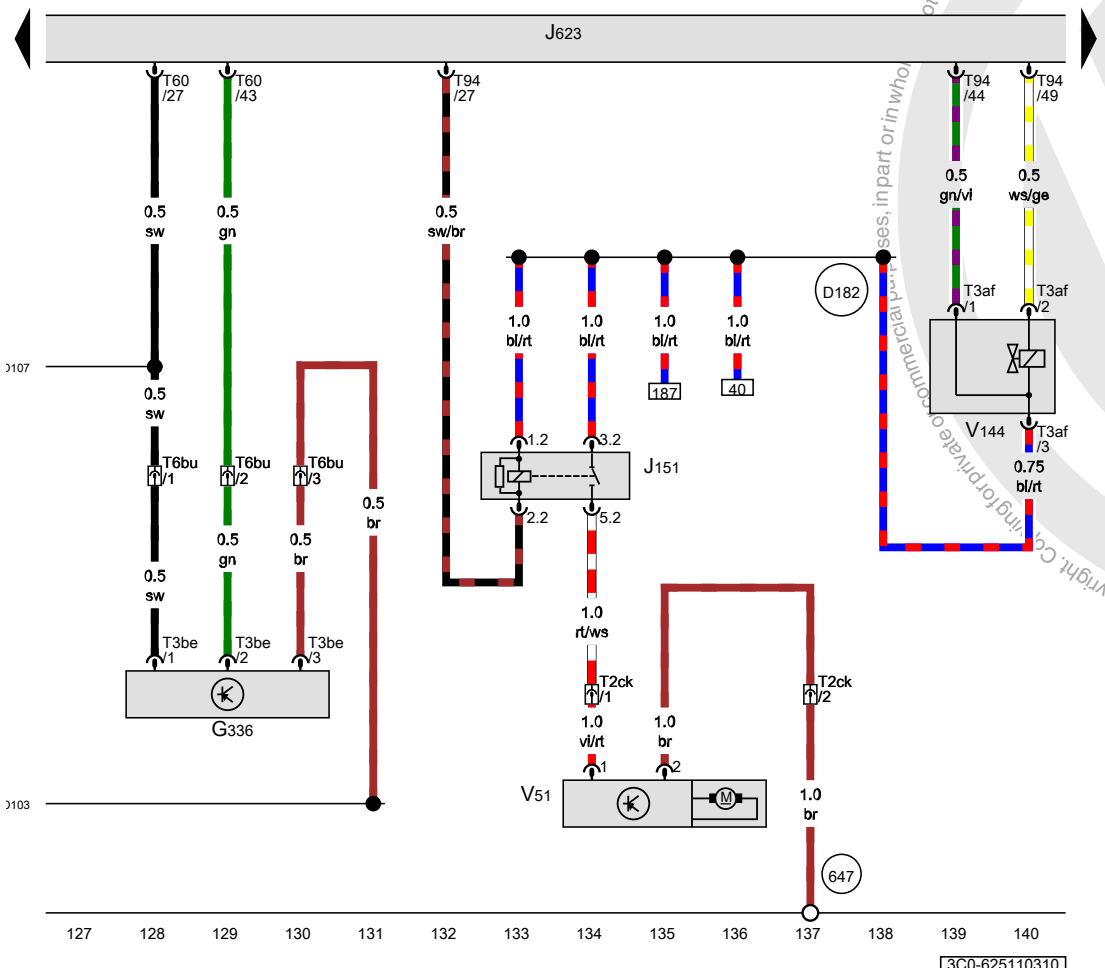
G31	Charge pressure sender
G40	Hall sender
G61	Knock sensor 1
J623	Engine control unit, central in plenum chamber
T3bh	3-pin connector
T3bj	3-pin connector
T4bm	4-pin connector
T6bu	6-pin connector, near cylinder head
T14c	14-pin connector, on left in engine compartment
T60	60-pin connector
D103	Connection 3 in engine compartment wiring harness
D106	Connection 4 in engine compartment wiring harness
D107	Connection 5 in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness



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Engine control unit, Continued coolant circulation pump, Fuel system diagnostic pump

G336	Intake manifold flap potentiometer
J151	Continued coolant circulation relay
J623	Engine control unit, central in plenum chamber
T2ck	2-pin connector
T3af	3-pin connector
T3be	3-pin connector
T6bu	6-pin connector, near cylinder head
T60	60-pin connector
T94	94-pin connector
V51	Continued coolant circulation pump
V144	Fuel system diagnostic pump
647	Earth point 3, on bulkhead
D103	Connection 3 in engine compartment wiring harness
D107	Connection 5 in engine compartment wiring harness
D182	Connection 3 (87a), in engine compartment wiring harness

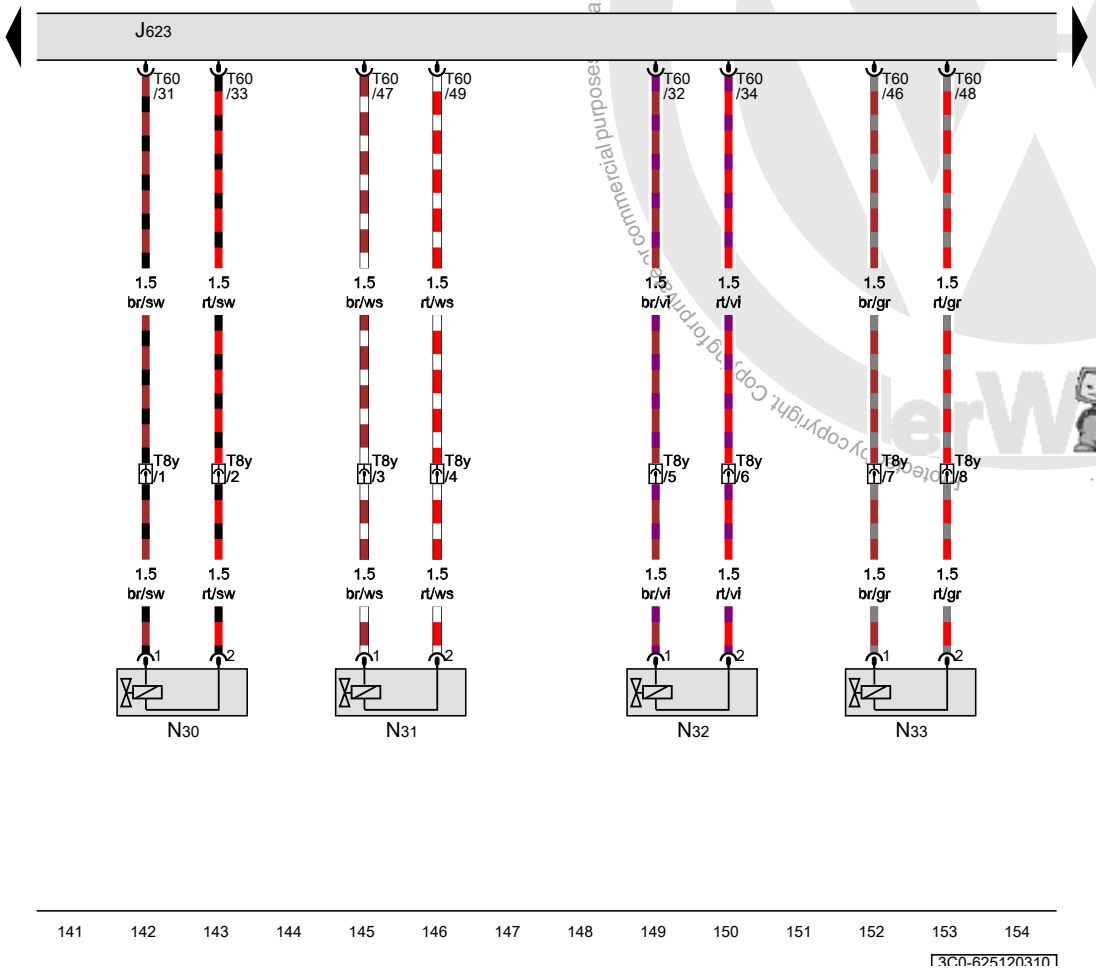


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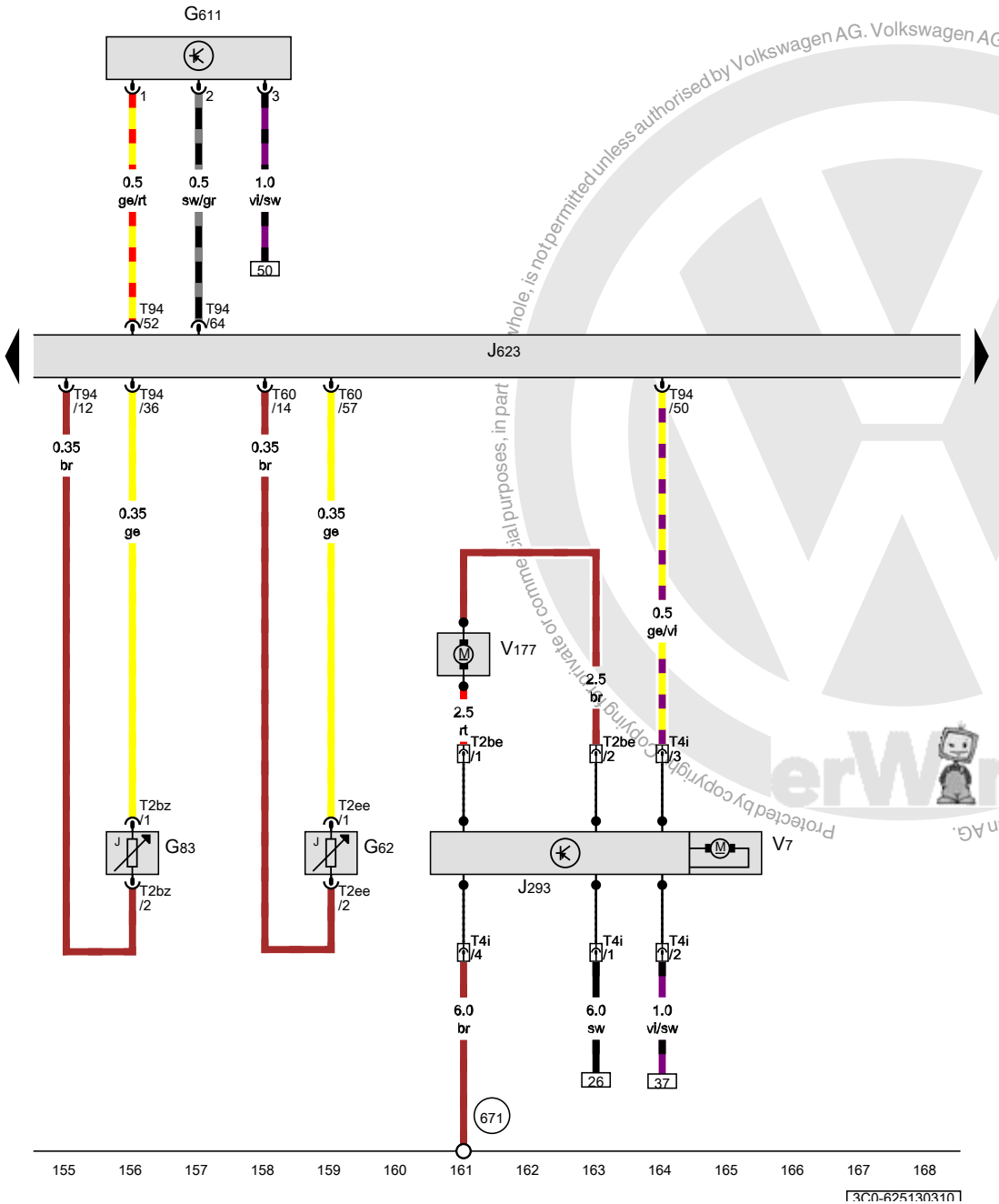
Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

J623	Engine control unit, central in plenum chamber
N30	Injector, cylinder 1
N31	Injector, cylinder 2
N32	Injector, cylinder 3
N33	Injector, cylinder 4
T8y	8-pin connector
T60	60-pin connector



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rs	=	pink

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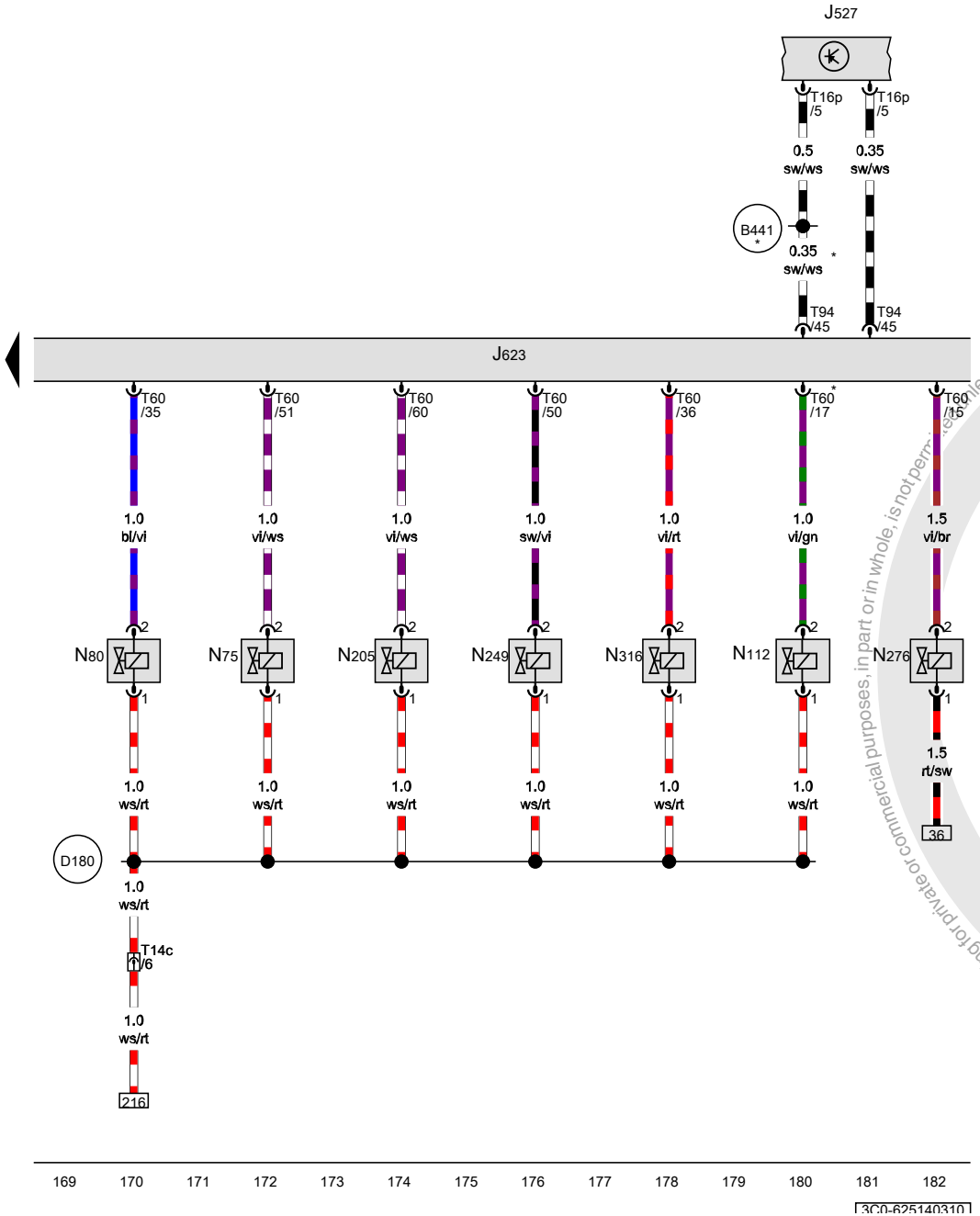


Coolant temperature sender, Radiator outlet coolant temperature sender, Radiator identification sensor, Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2

G62	Coolant temperature sender
G83	Radiator outlet coolant temperature sender, black
G611	Radiator identification sensor
J293	Radiator fan control unit
J623	Engine control unit, central in plenum chamber
T2be	2-pin connector, on lock carrier
T2bz	2-pin connector
T2ee	2-pin connector
T4i	4-pin connector, on lock carrier
T60	60-pin connector
T94	94-pin connector
V7	Radiator fan
V177	Radiator fan 2
671	Earth point 1, on front of left longitudinal member

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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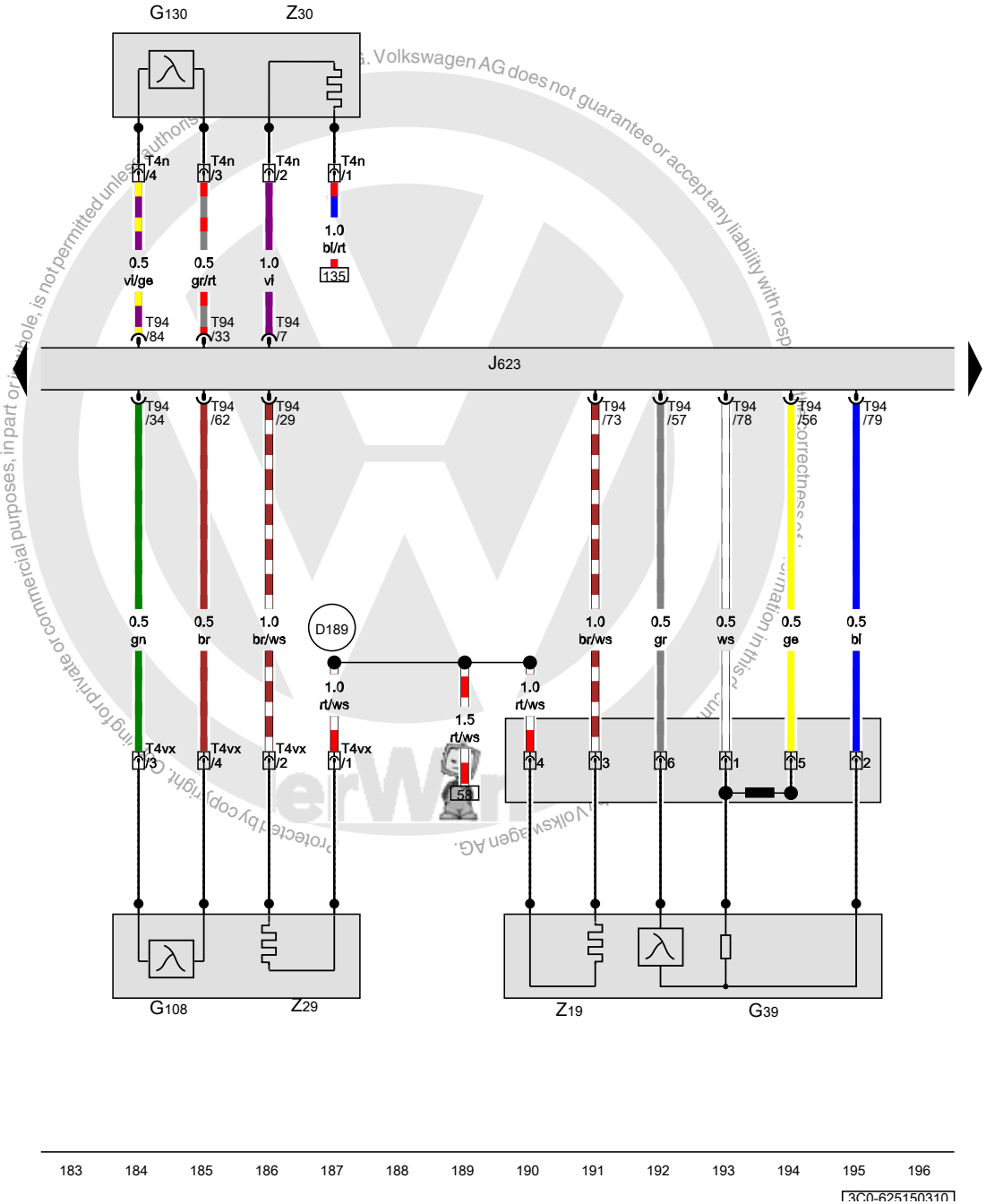


Steering column electronics control unit, Engine control unit, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Secondary air inlet valve, Camshaft control valve 1, Turbocharger air recirculation valve, Fuel pressure regulating valve, Intake manifold flap valve

J527	Steering column electronics control unit
J623	Engine control unit, central in plenum chamber
N75	Charge pressure control solenoid valve
N80	Activated charcoal filter solenoid valve 1
N112	Secondary air inlet valve
N205	Camshaft control valve 1
N249	Turbocharger air recirculation valve
N276	Fuel pressure regulating valve
N316	Intake manifold flap valve
T14c	14-pin connector
T16p	16-pin connector
T60	60-pin connector
T94	94-pin connector
B441	Connection (CCS), in main wiring harness
D180	Connection (87a), in engine compartment wiring harness
*	Only models with adaptive cruise control (ACC)

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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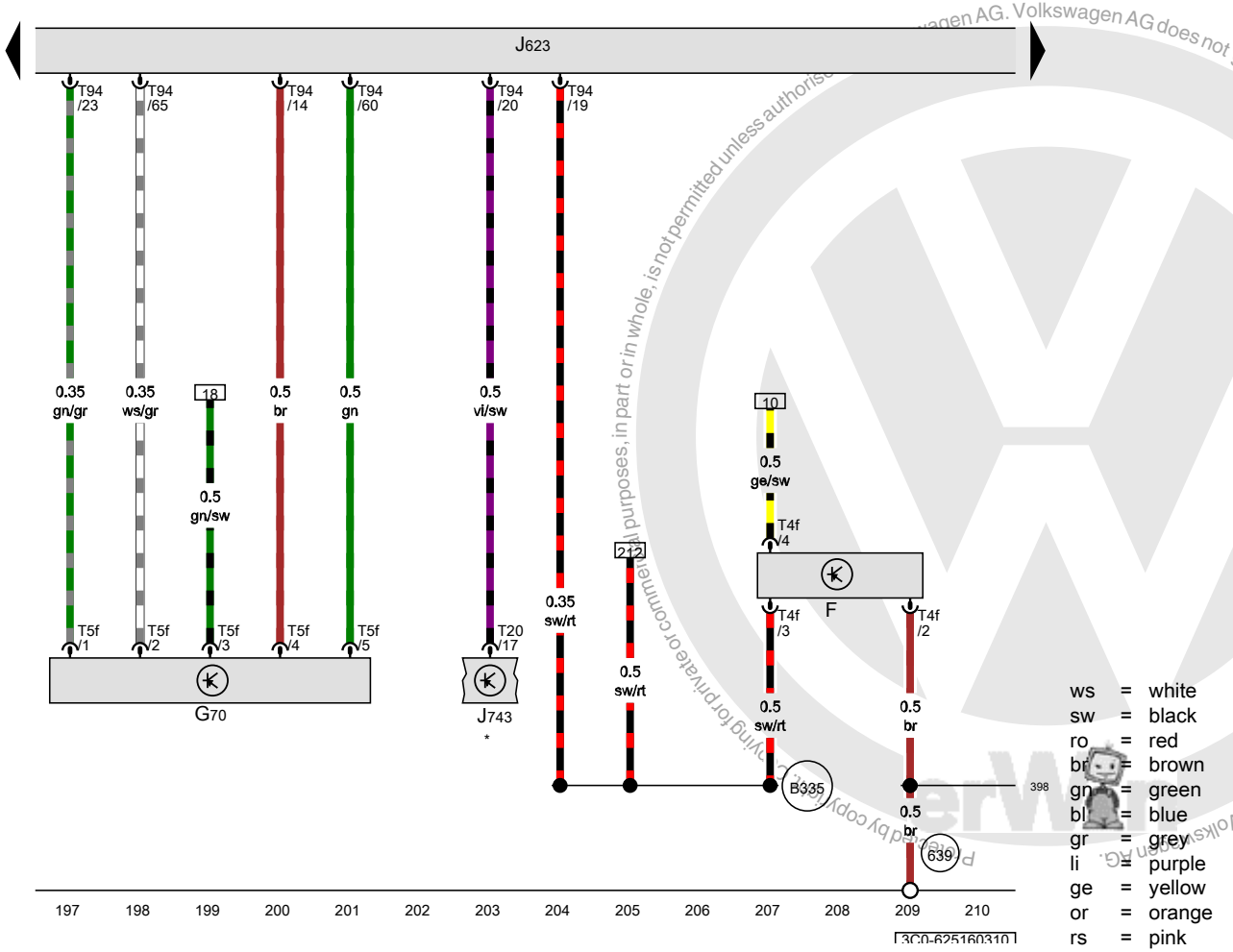
Lambda probe, Lambda probe 2, Lambda probe after catalytic converter, Engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter, Lambda probe 2 heater after catalytic converter

G39	Lambda probe
G108	Lambda probe 2
G130	Lambda probe after catalytic converter
J623	Engine control unit, central in plenum chamber
T4n	4-pin connector
T4vx	4-pin connector
T6dw	6-pin connector
T94	94-pin connector
Z19	Lambda probe heater
Z29	Lambda probe 1 heater after catalytic converter
Z30	Lambda probe 2 heater after catalytic converter
D189	Connection (87a) in engine prewiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Brake light switch, Air mass meter, Engine control unit, Mechatronic unit for dual clutch gearbox

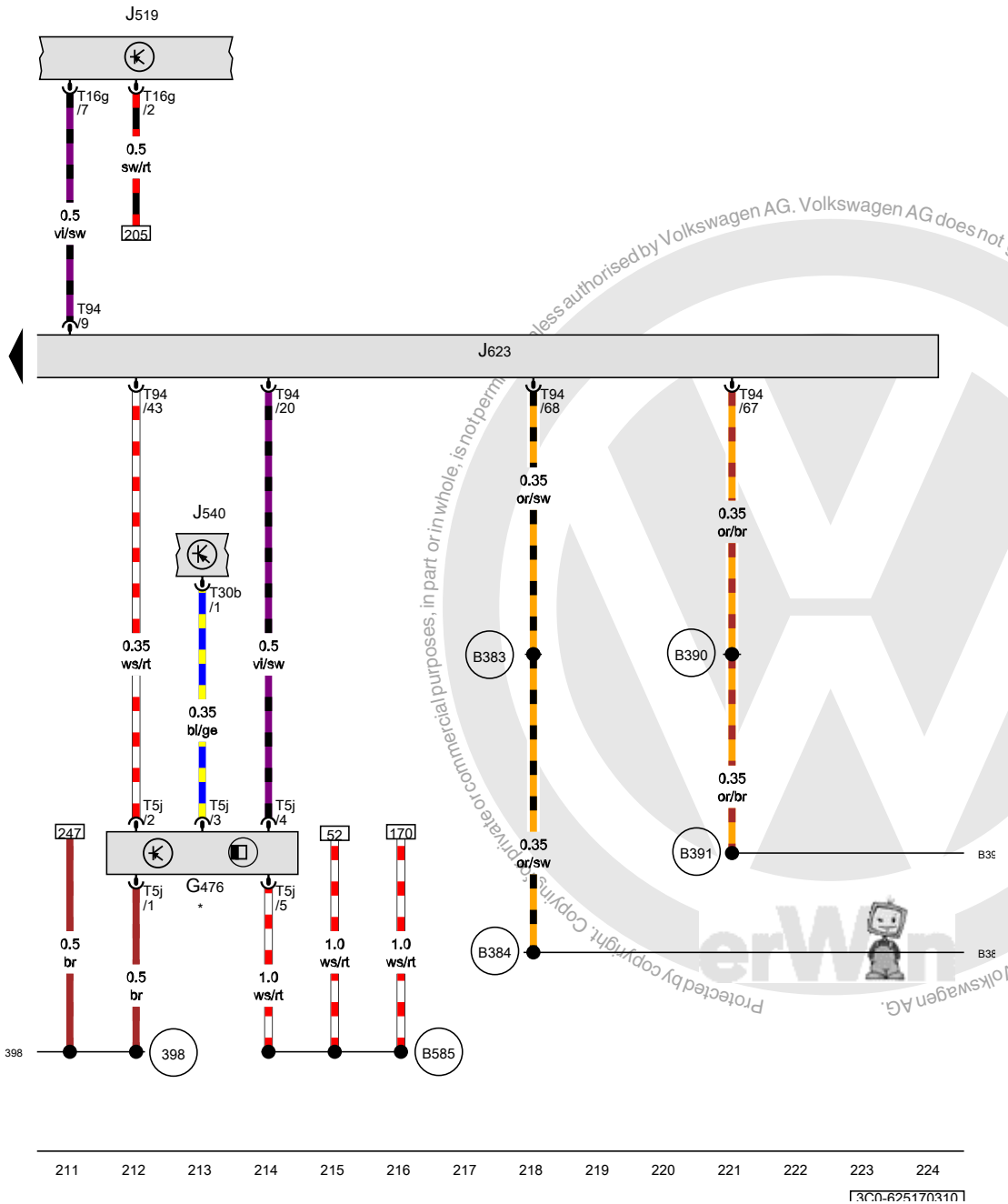
F	Brake light switch
G70	Air mass meter
J623	Engine control unit, central in plenum chamber
J743	Mechatronic unit for dual clutch gearbox
T4f	4-pin connector
T5f	5-pin connector
T20	20-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
639	Earth point, left A-pillar
B335	Connection 1 (54), in main wiring harness
*	Only models with automatic gearbox



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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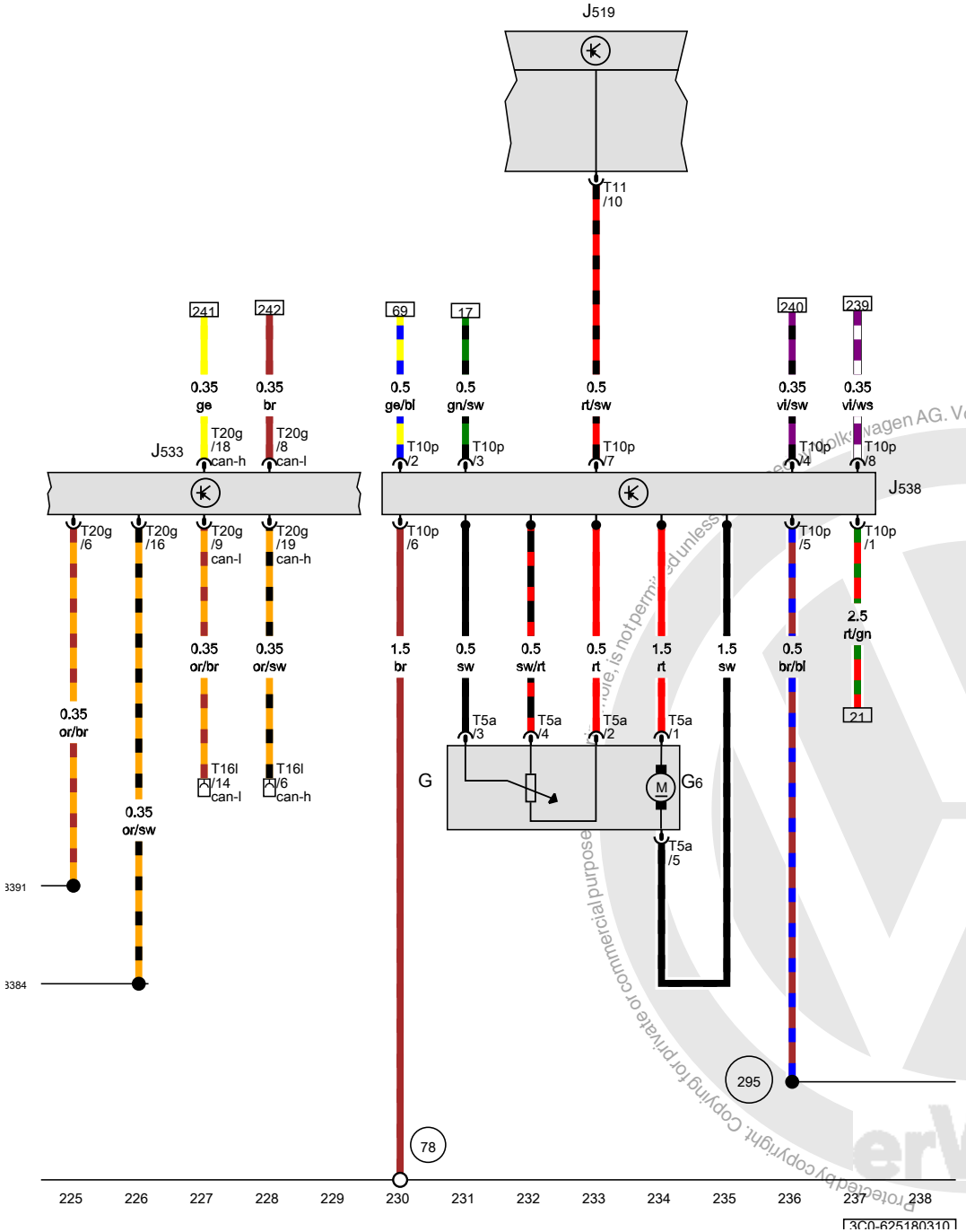
Clutch position sender, Onboard supply control unit, Engine control unit



G476	Clutch position sender
J519	Onboard supply control unit
J540	Control unit for electromechanical parking brake
J623	Engine control unit, central in plenum chamber
T5j	5-pin connector
T16g	16-pin connector
T30b	30-pin connector
T94	94-pin connector
398	Earth connection 33, in main wiring harness
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness
B585	Positive connection 2 (87a), in interior wiring harness
*	Only models with manual gearbox

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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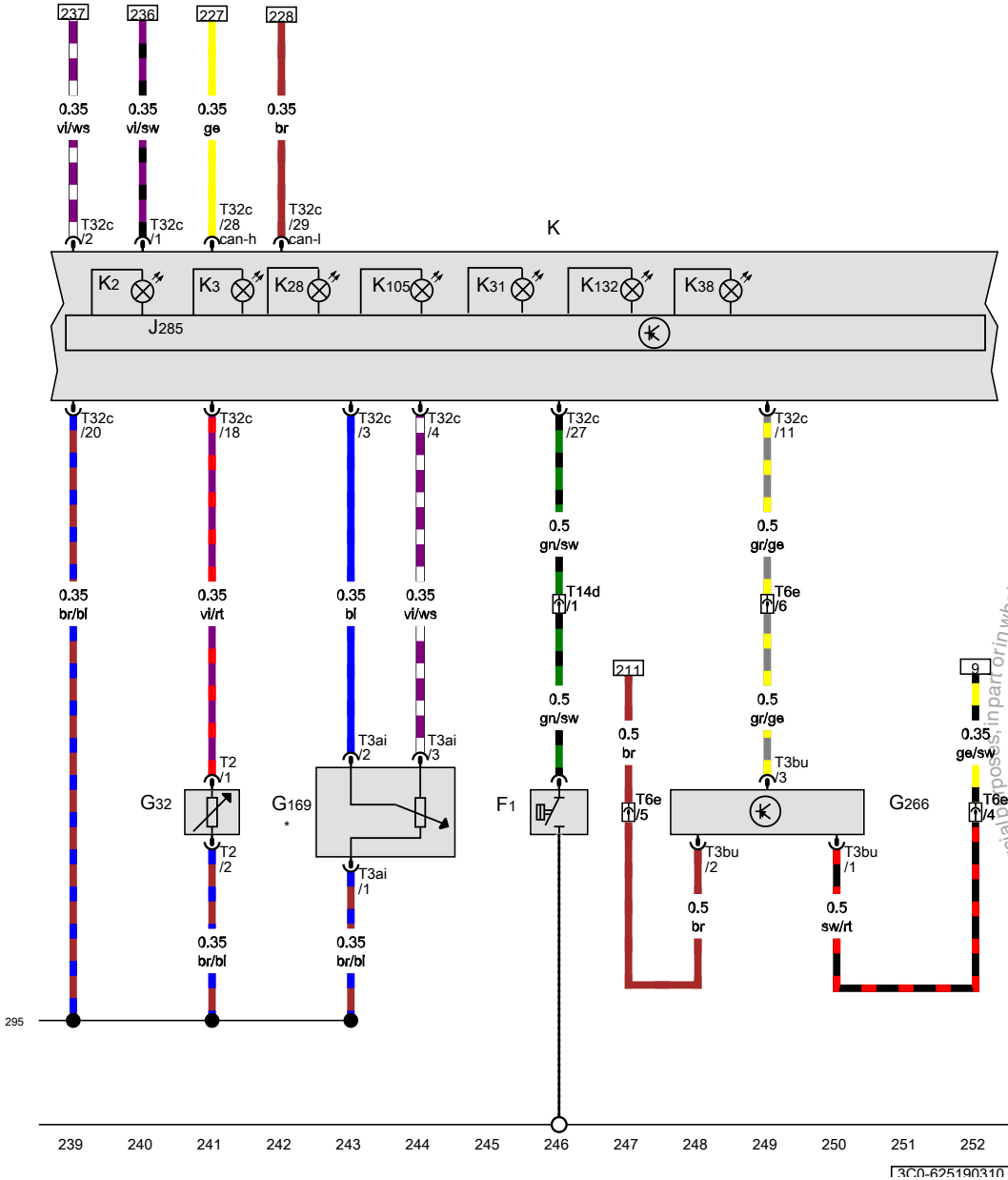
Fuel gauge sender, Fuel system pressurisation pump, Onboard supply control unit, Data bus diagnostic interface, Fuel pump control unit

G	Fuel gauge sender
G6	Fuel system pressurisation pump
J519	Onboard supply control unit
J533	Data bus diagnostic interface
J538	Fuel pump control unit
T5a	5-pin connector
T10p	10-pin connector
T11	11-pin connector
T16l	16-pin connector, on diagnostic connection
T20g	20-pin connector
78	Earth point, lower part of right B-pillar
295	Earth connection 10, in interior wiring harness
B384	Connection 2 (powertrain CAN bus, high), in main wiring harness
B391	Connection 2 (powertrain CAN bus, low), in main wiring harness

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

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Coolant shortage indicator sender, Fuel gauge sender 2, Oil level and oil temperature sender, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp



F1	Oil pressure switch
G32	Coolant shortage indicator sender
G169	Fuel gauge sender 2
G266	Oil level and oil temperature sender
J285	Control unit in dash panel insert
K	Dash panel insert
K2	Alternator warning lamp
K3	Oil pressure warning lamp
K28	Coolant temperature and coolant shortage warning lamp
K31	Cruise control system warning lamp
K38	Oil level warning lamp
K105	Reserve fuel warning lamp
K132	Electronic power control fault lamp
T2	2-pin connector
T3ai	3-pin connector
T3bu	3-pin connector
T6e	6-pin connector
T14d	14-pin connector
T32c	32-pin connector
295	Earth connection 10, in interior wiring harness
*	Only models with all-wheel drive

ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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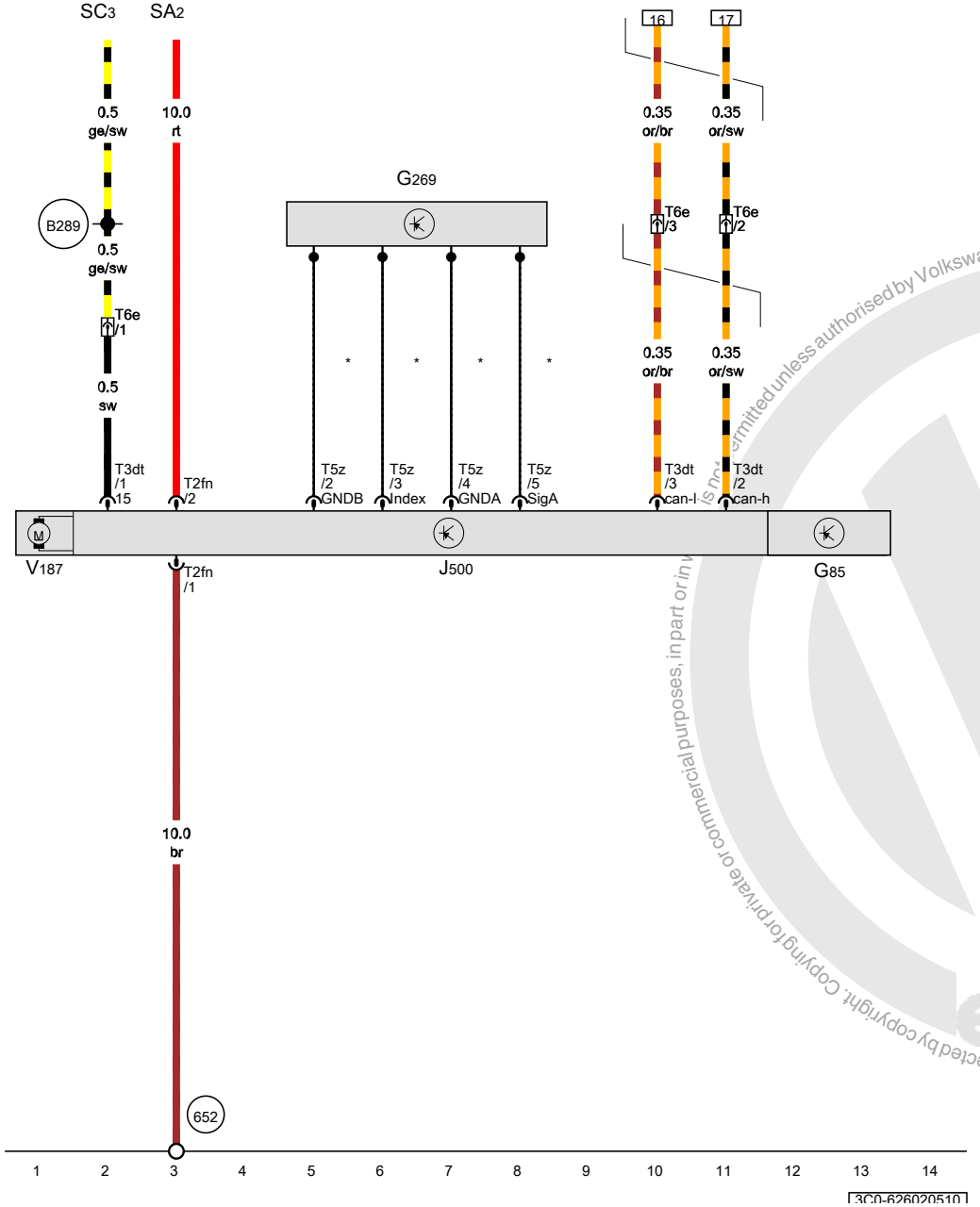
Electromechanical steering

From November 2009

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Steering moment sender, Power steering control unit, Fuse 2 in fuse holder A, Fuse 3 on fuse holder C, Electromechanical power steering motor

G85	Steering angle sender
G269	Steering moment sender
J500	Power steering control unit
SA2	Fuse 2 in fuse holder A
SC3	Fuse 3 on fuse holder C
T2fn	2-pin connector
T3dt	3-pin connector
T5z	5-pin connector
T6e	6-pin connector
V187	Electromechanical power steering motor
652	Earth point, engine and gearbox earth
B289	Positive connection 13 (15a) in main wiring harness
*	Adapter wire

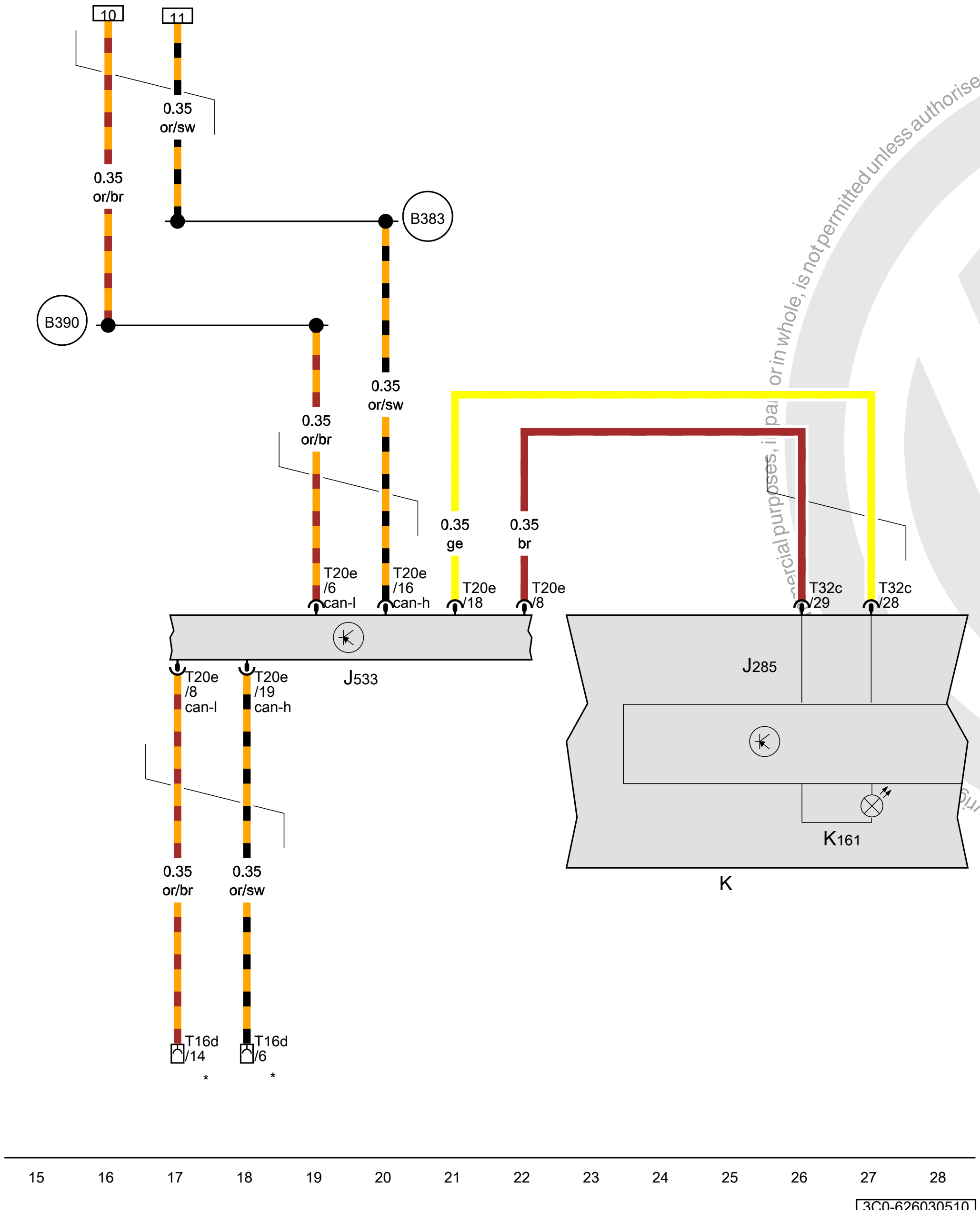


ws	=	white
sw	=	black
ro	=	red
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Control unit in dash panel insert, Data bus diagnostic interface, Electromechanical power steering warning lamp

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K	Dash panel insert
K161	Electromechanical power steering warning lamp
T16d	16-pin connector
T20e	20-pin connector
T32c	32-pin connector
B383	Connection 1 (powertrain CAN bus, high), in main wiring harness
B390	Connection 1 (powertrain CAN bus, low), in main wiring harness
*	Diagnostic connection



ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
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1 Earth points

1.1 Overview of earth points in engine compartment

15 - Earth point, on cylinder head
- ❑ Torque setting: 15Nm
- ❑ Fittings location ⇒ page 4

685 - Earth point 1 at front of right longitudinal member
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 2

13 - Earth point, on right in engine compartment
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 2

646 - Earth point 2, on bulkhead
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 3

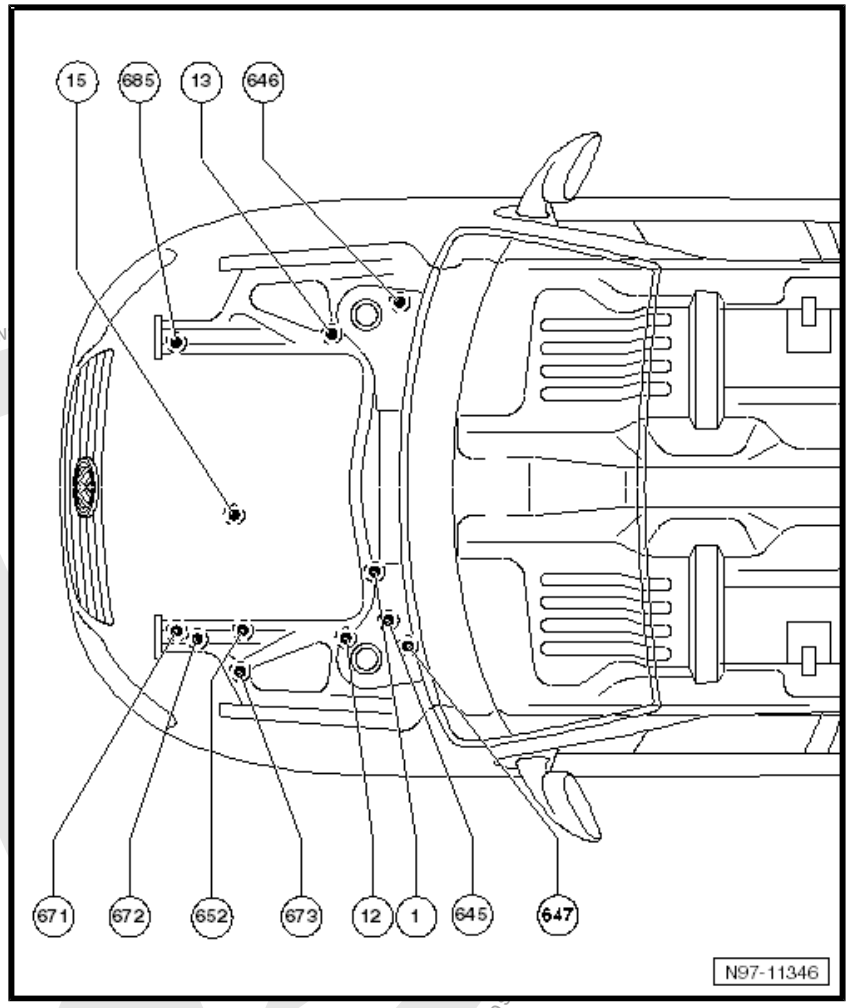
647 - Earth point 3, on bulkhead
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 3

645 - Earth point 1, on bulkhead
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 3

1 - Earth strap, battery - body
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 3

12 - Earth point, on left in engine compartment
- ❑ Torque setting: 20Nm
- ❑ Fittings location ⇒ page 3

673 - Earth point 3, on front of left longitudinal member
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 4



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652 - Earth point, engine and gearbox earth

- ❑ Torque setting: 20Nm
- ❑ Fittings location ⇒ page 4

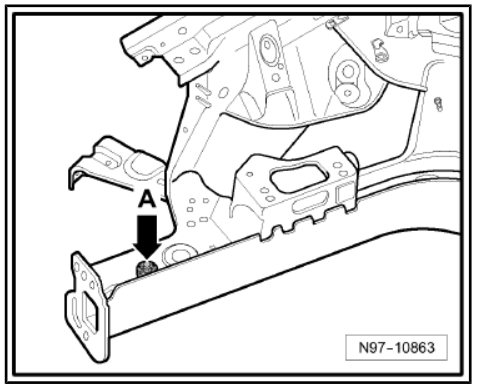
672 - Earth point 2, on front of left longitudinal member

- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 4

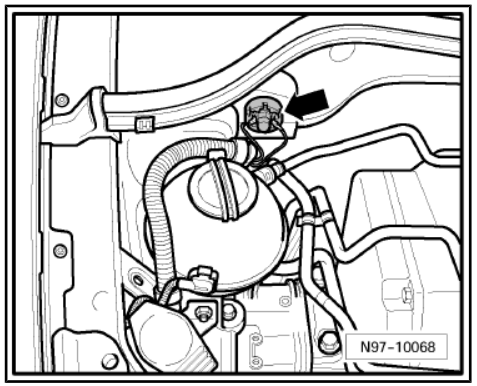
671 - Earth point 1, on front of left longitudinal member

- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 4

685 - Earth point 1 at front of right longitudinal member -arrow-

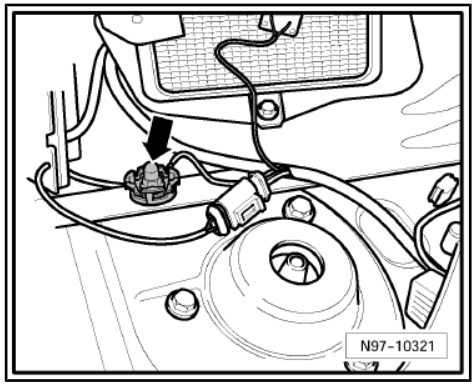


13 - Earth point on right in engine compartment -arrow-



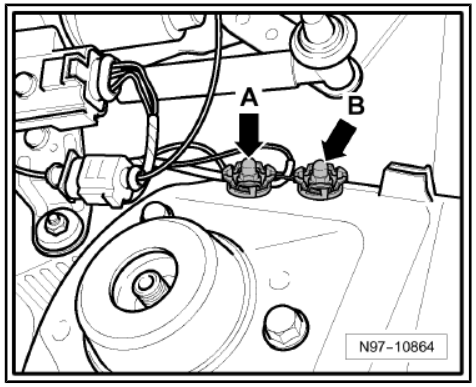
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646 - Earth point 2 on bulkhead -arrow-



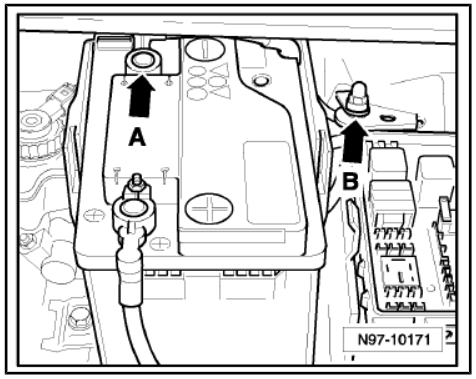
645 - Earth point 1 on bulkhead -arrow A-

647 - Earth point 3 on bulkhead -arrow B-



1 - Earth strap, battery - body -arrow A-

12 - Earth point on left in engine compartment -arrow B-



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652 - Earth point for engine and gearbox earth -arrow A-

671 - Earth point 1 at front of left longitudinal member -arrow B-

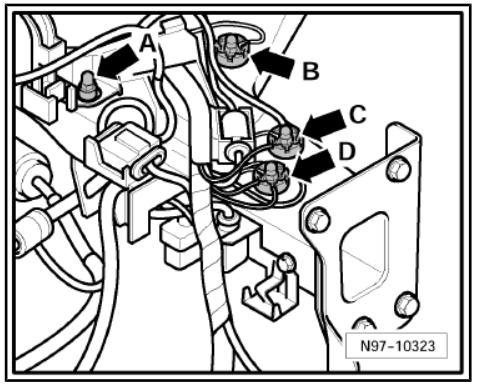
672 - Earth point 2 at front of left longitudinal member -arrow C-

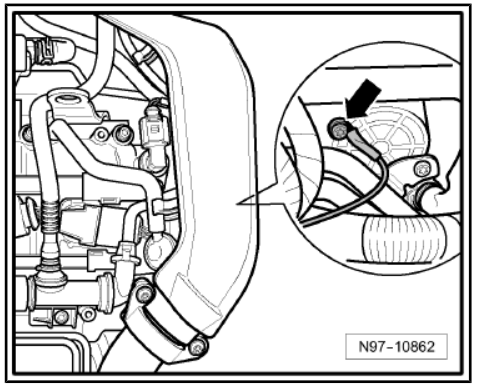
Note

Earth point 672 is discontinued from November 2006

673 - Earth point 3 at front of left longitudinal member -arrow D-

15 - Earth point on cylinder head -arrow-





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1.2 Overview of earth points in vehicle interior

610 - Earth point (audio), front below centre console
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 6

638 - Earth point, on right A-pillar
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 6

683 - Earth point on front of right side member
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 7

687 - Earth point 1 on centre tunnel
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 7

688 - Earth point 2 on centre tunnel
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 7

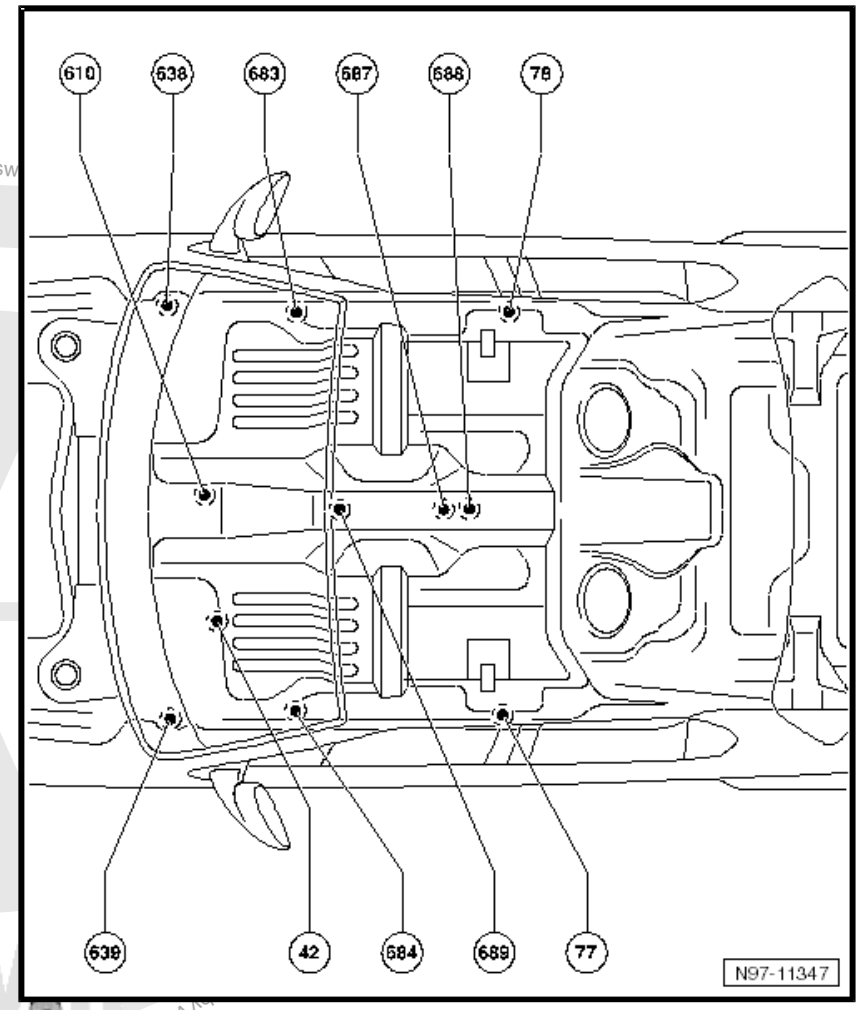
78 - Earth point, lower part of right B-pillar
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 7

77 - Earth point, lower part of left B-pillar
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 8

689 - Earth point, at front, central in roof
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 8

684 - Earth point on front of left side member
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 8

42 - Earth point, next to steering column
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 9

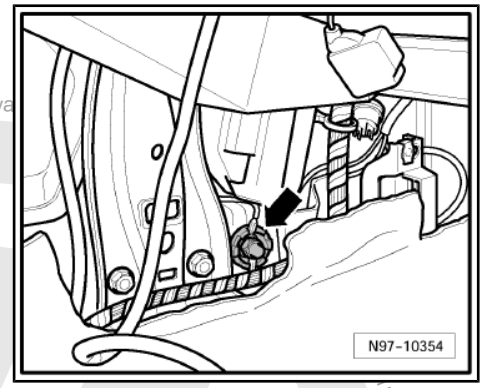


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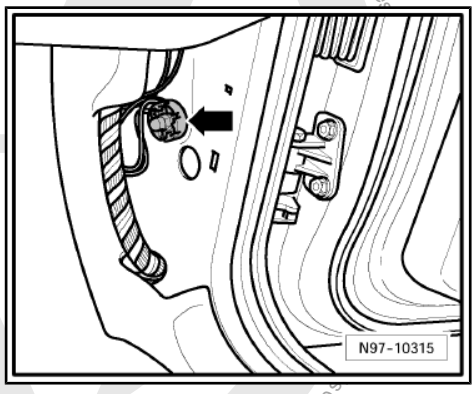
639 - Earth point, left A-pillar

- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 8

610 - Earth point (audio), at front under centre console -arrow-

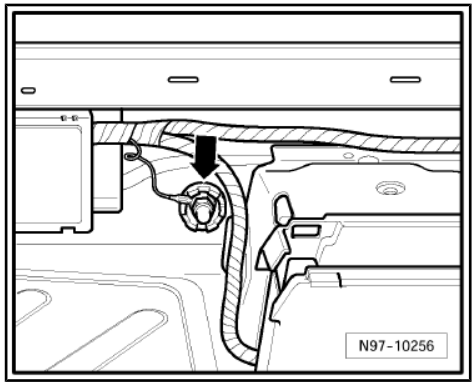


638 - Earth point on right A-pillar -arrow-



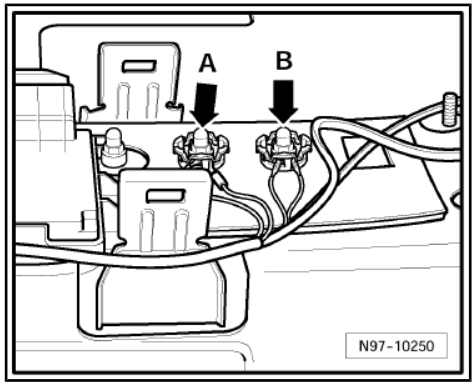
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683 - Earth point on front of right side member -arrow-

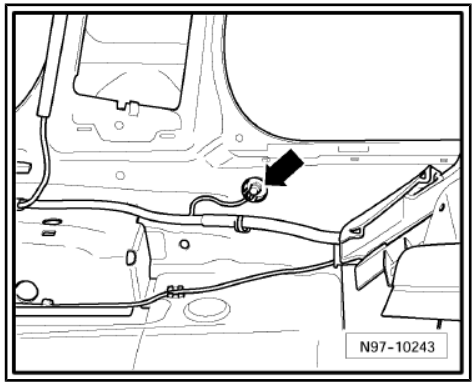


687 - Earth point 1 on centre tunnel -arrow A-

688 - Earth point 2 on centre tunnel -arrow B-

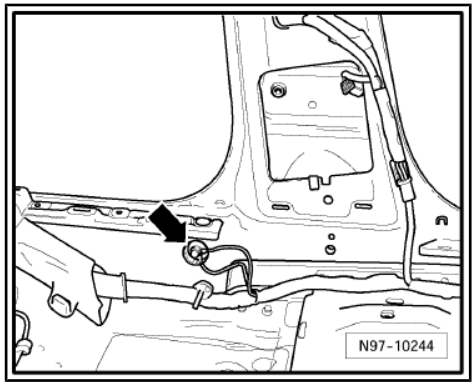


78 - Earth point, lower part of right B-pillar -arrow-

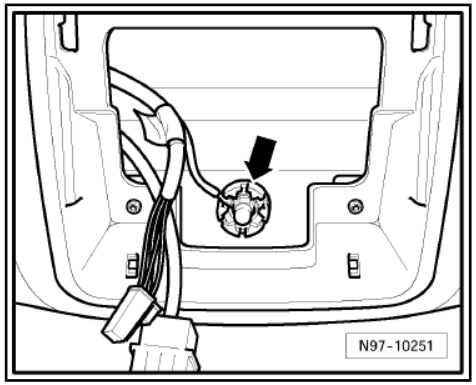


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77 - Earth point, lower part of left B-pillar -arrow-

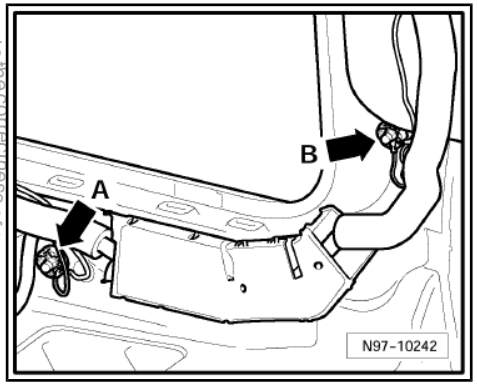


689 - Earth point, front centre of roof -arrow-



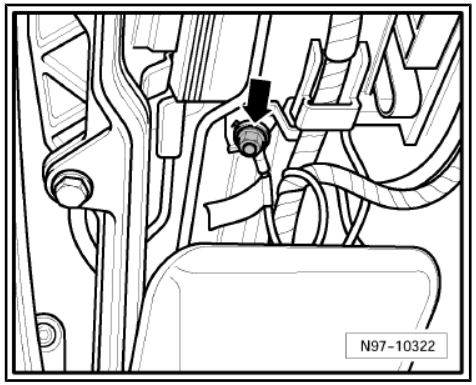
639 - Earth point on left A-pillar -arrow B-

684 - Earth point on front of left side member -arrow A-



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42 - Earth point, next to steering column -arrow-



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1.3 Overview of earth points in luggage compartment

51 - Earth point, on right in luggage compartment

- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 11

675 - Earth point 2, on right in luggage compartment

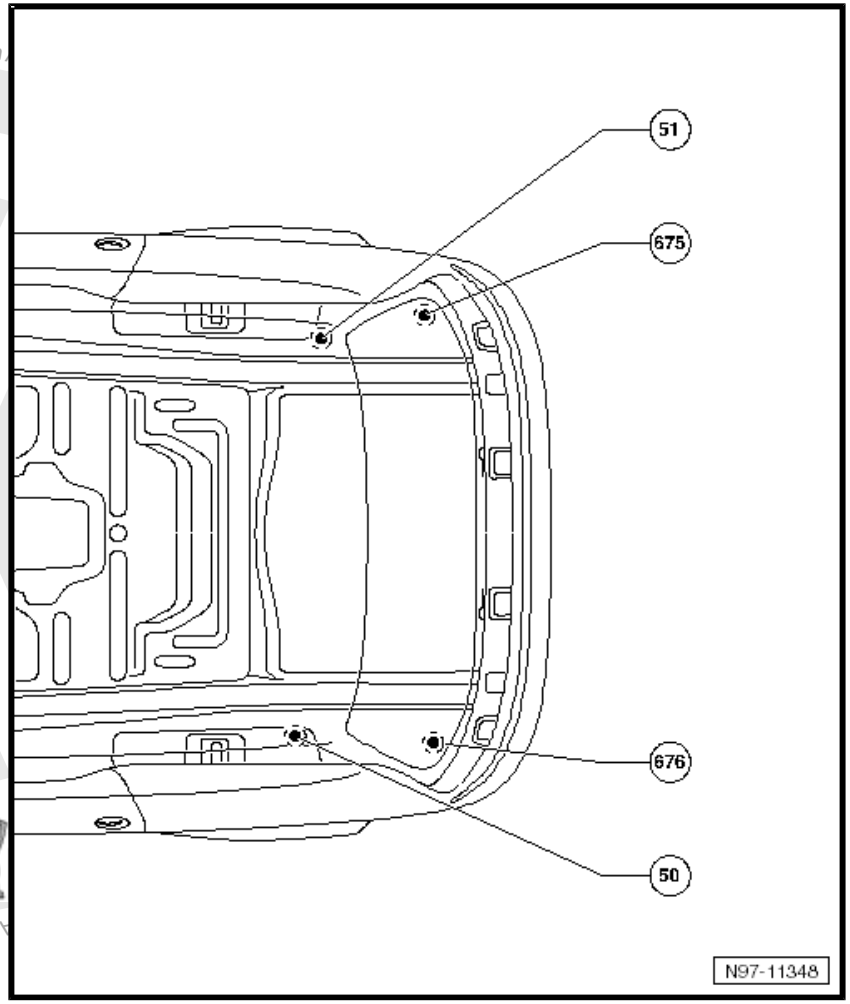
- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 11

676 - Earth point 2, on left in luggage compartment

- ❑ Torque setting: 20Nm
- ❑ Fittings location ⇒ page 11

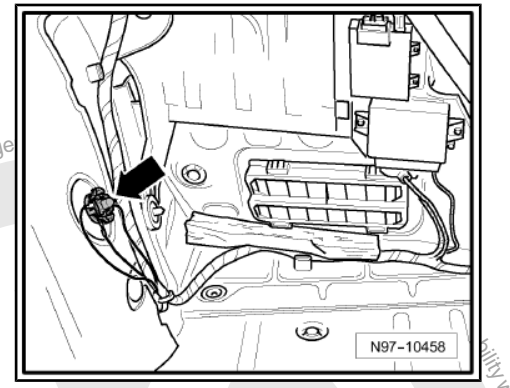
50 - Earth point, on left in luggage compartment

- ❑ Torque setting: 9Nm
- ❑ Fittings location ⇒ page 12

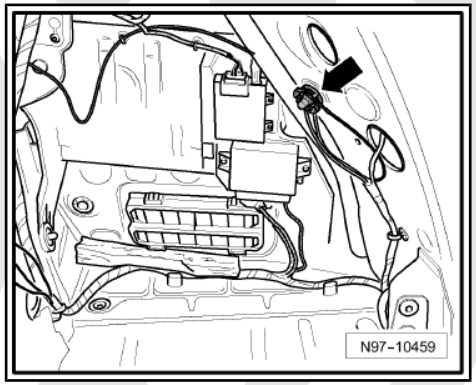


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51 - Earth point on right in luggage compartment -arrow-



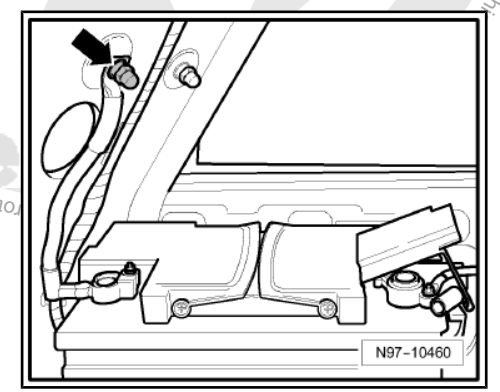
675 - Earth point 2 on right in luggage compartment -arrow-



Note

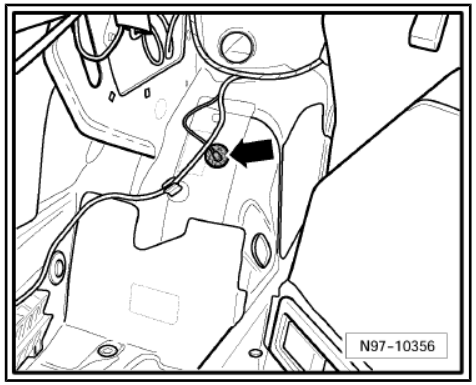
Earth point 675 is discontinued from May 2006

676 - Earth point 2 on left in luggage compartment -arrow-



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50 - Earth point on left in luggage compartment -arrow-



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1 Fuses

1.1 Overview of fuses

1 - Fuse holder D -SD-

- Fitting locations to April 2008 ⇒ page 29
- Fuse assignment to April 2008 ⇒ page 30
- Fitting locations from May 2008 ⇒ page 33
- Fuse assignment from May 2008 ⇒ page 34

2 - Fuse holder F -SF-

- Fitting location ⇒ page 36
- Fuse assignment ⇒ page 37

3 - Fuse 2 (30) -S205-

- Fitting location ⇒ page 37
- Fuse rating ⇒ page 37

4 - Fuse holder C -SC-

- Fitting locations to April 2008 ⇒ page 19
- Fuse assignment to April 2008 ⇒ page 20
- Fitting locations from May 2008 ⇒ page 24
- Fuse assignment from May 2008 ⇒ page 25

5 - Circuit breakers on left under dash panel

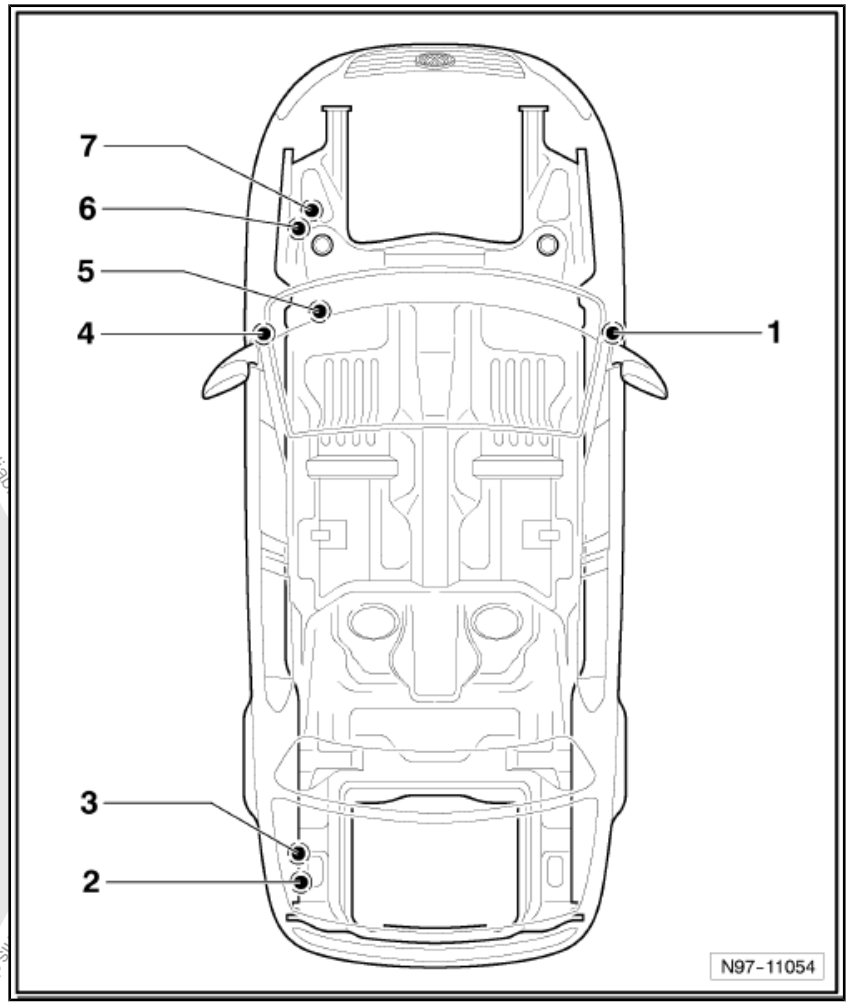
- Fuse assignment ⇒ page 34

6 - Fuse holder B -SB-

- Fitting location of E-box to April 2005 (not AXX, AXZ, BLV, BPY, BWA) ⇒ page 6
- Fuse assignment of E-box to April 2005 (not AXX, AXZ, BLV, BPY, BWA) ⇒ page 7
- Fitting location of E-box high ⇒ page 10
- Fuse assignment for E-box high ⇒ page 11
- Installation position of E-box low from May 2005 ⇒ page 14
- Fuse assignment of E-box low from May 2005 ⇒ page 15

7 - Fuse holder A -SA-

- Installation position of E-box high ⇒ page 2
- Fuse assignment of E-box high ⇒ page 3
- Installation position of E-box low ⇒ page 4



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❑ Fuse assignment of E-box low ⇒ page 5

1.2 Fuse holder A -SA- on fuse holder on E-box high, on left in engine compartment

1.2.1 Fuse colours

40 A - orange

30 A - green

25 A - white

20 A - yellow

15 A - blue

10 A - red

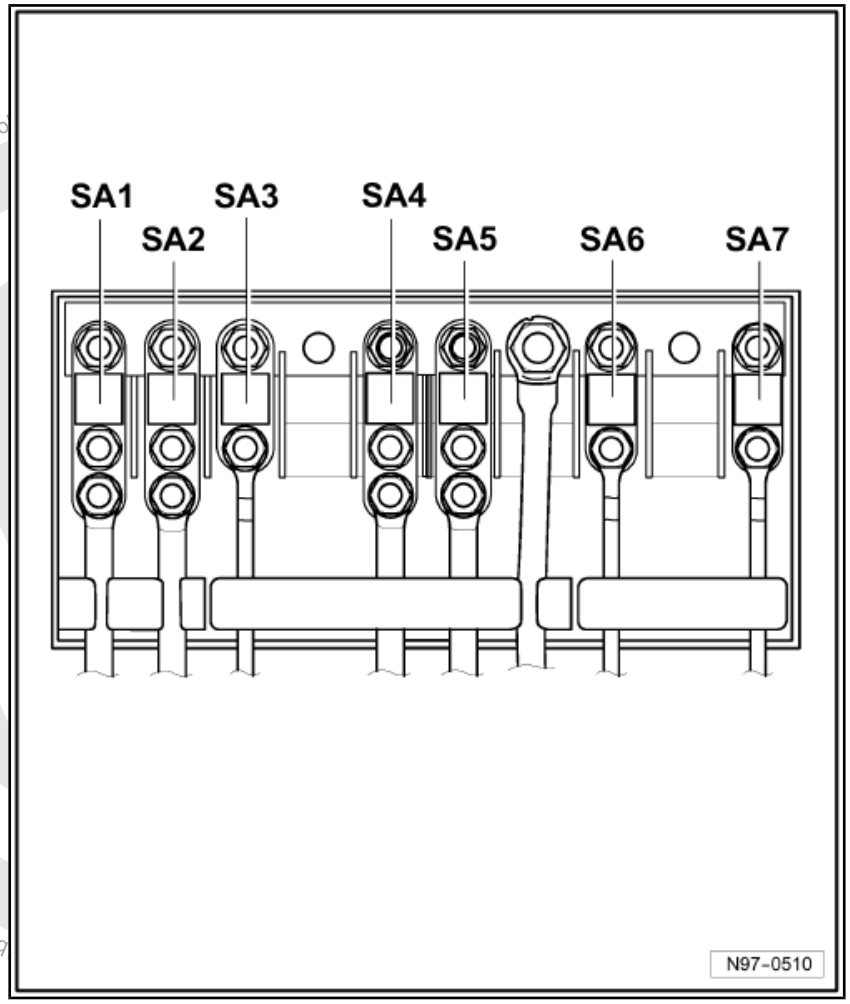
7.5 A - brown

5 A - beige

3 A - purple

Note

Specified torque settings ⇒ Electrical system, Repair Group 97, Removing and installing fuse holders



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1.2.2 Fuse assignment on fuse holder A -SA- on E-box high, on left in engine compartment

No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
1	-	Fuse 1 on fuse holder A -SA1-	150A /180A[1)]	-	Alternator -C-	30
2	-	Fuse 2 on fuse holder A -SA2-	80A	-	Electromechanical power steering motor -V187-	30
3	-	Fuse 3 on fuse holder A -SA3-	80A 50A [2)]	-	Radiator fan control unit -J293-	30
4	-	Fuse 4 on fuse holder A -SA4-	100A [4)] 80A [3)] 60A[6)]	-	Driver seat adjustment thermal fuse 1 -S44- [4)] Front passenger seat adjustment thermal fuse 1 -S46- [4)] Left fuse holder (SC32-SC37) [4)] Right fuse holder (SD32-SD37) [4,) 5] Left fuse holder (SC12-SC17, SC29-SC31) [3)] Right fuse holder (SD12-SD17, SD28, SD29-SD31) [3), 5)] Right fuse holder (SD1-SD2)[6)]	30
5	-	Fuse 5 on fuse holder A -SA5-	80A	-	Right fuse holder (SD22-SD27) [5)] Driver seat adjustment thermal fuse 1 -S44- [3)] Front passenger seat adjustment thermal fuse 1 -S46- [3)]	30
6	-	Fuse 6 on fuse holder A -SA6-	100A [4)] 80A [3)]	-	Left fuse holder (SC12-SC17, SC29-SC31) [4)] Right fuse holder (SD12-SD17, SD28, SD29-SD31) [4), 5)] Left fuse holder (SC32-SC37) [3)]	30
7	-	Fuse 7 on fuse holder A -SA7-	40A	-	ABS control unit -J104-	30

[1)] Only models with 180A alternator, installed in alternator wire

[2)] From November 2005

[3)] From May 2006

[4)] To April 2006

[5)] To April 2008

[6)] From May 2008

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1.2.3 Fuse holder A -SA- on fuse holder on E-box low, on left in engine compartment

1.2.4 Fuse colours

50 A - red

40 A - orange

30 A - green

25 A - white

20 A - yellow

15 A - blue

10 A - red

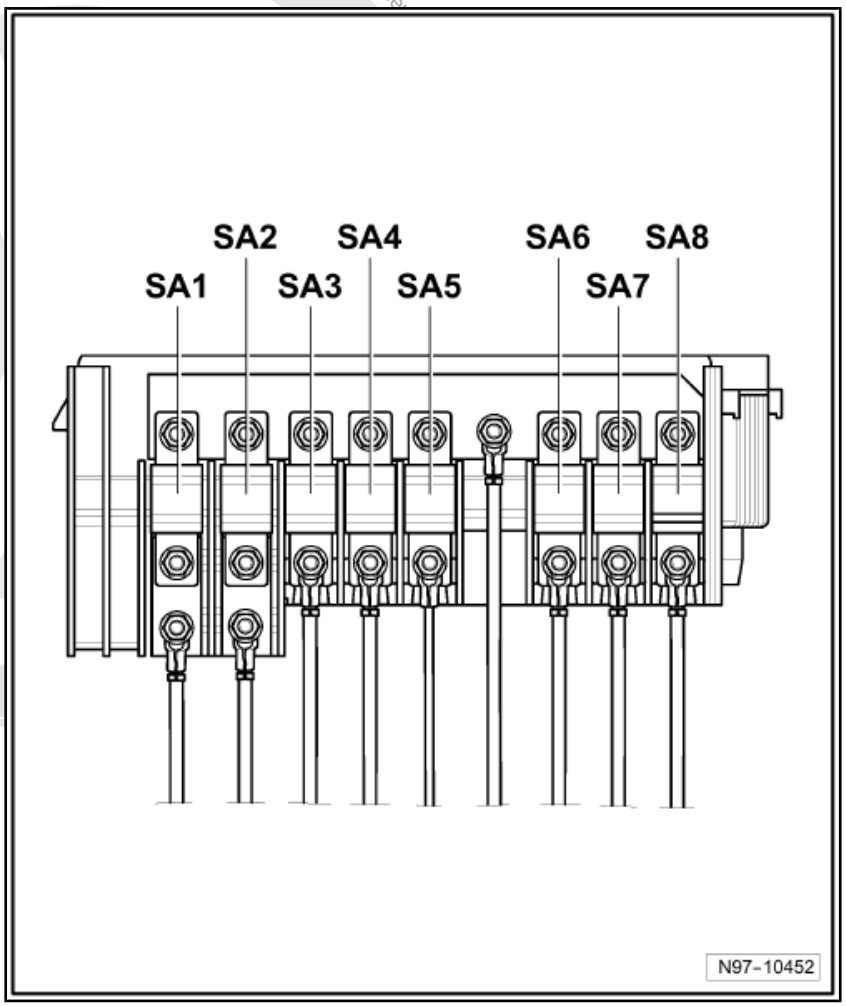
7.5 A - brown

5 A - beige

3 A - purple

Note

Specified torque settings ⇒ Electrical system, Repair Group 97, Removing and installing fuse holders



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1.2.5 Fuse assignment on fuse holder A -SA- on E-box low, on left in engine compartment

No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
1	-	Fuse 1 on fuse holder A -SA1-	150A	-	Alternator -C-	30
2	-	Fuse 2 on fuse holder A -SA2-	80A	-	Electromechanical power steering motor -V187-	30
3	-	Fuse 3 on fuse holder A -SA3-	80A 50A 2)	-	Radiator fan control unit -J293-	30
4	-	Fuse 4 on fuse holder A -SA4-	60A	-	Driver seat adjustment thermal fuse 1 -S44- 4) Front passenger seat adjustment thermal fuse 1 -S46- 4) Left fuse holder (SC32-SC37) 4) Right fuse holder (SD32-SD37) 4) 6) Left fuse holder (SC12-SC17, SC29-SC31) 3) Right fuse holder (SD12-SD17, SD28, SD29-SD31) 3) 6)	30
5	-	Fuse 5 on fuse holder A -SA5-	80A 60A 7)		Right fuse holder (SD22-SD27) 6) Driver seat adjustment thermal fuse 1 -S44- 3) Front passenger seat adjustment thermal fuse 1 -S46- 3) Right fuse holder (SD1-SD2)7)	30
6	-	Fuse 6 on fuse holder A -SA6-	100A 4) 80A 3)	-	Left fuse holder (SC12-SC17, SC29-SC31) 4) Right fuse holder (SD12-SD17, SD28, SD29-SD31) 4) 6) Left fuse holder (SC32-SC37) 3)	30
7	-	Fuse 7 on fuse holder A -SA7-	60A 100A	-	Charging line second battery Auxiliary air heater element -Z35- High heat output relay -J360- 5	30
8	-	Fuse 8 on fuse holder A -SA8-	40A	-	ABS control unit -J104-	30

2) From November 2005

3) From May 2006

4) To April 2006

5) From November 2006

6) To April 2008

7) From May 2008

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1.3 Fuse holder B -SB- on E-box on left in engine compartment (not AXX, AXZ, BLV, BPY, BWA) to 04.2005

1.3.1 Fuse colours

50 A - red

40 A - orange

30 A - green

25 A - white

20 A - yellow

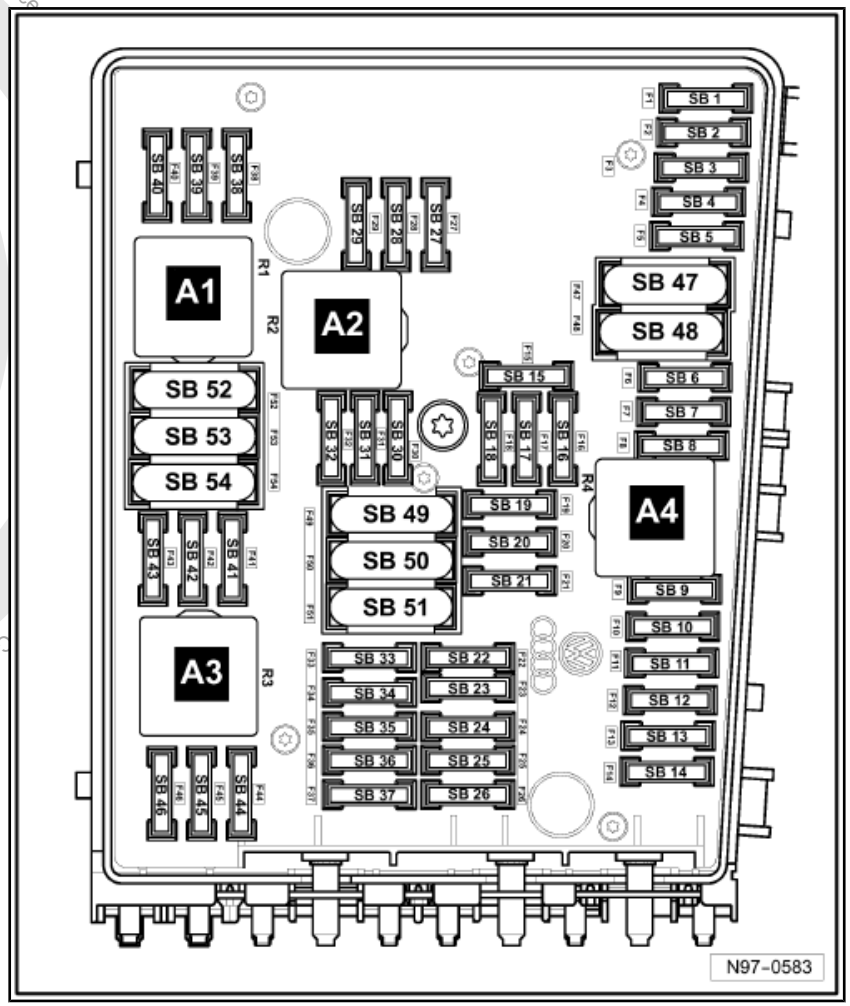
15 A - blue

10 A - red

7.5 A - brown

5 A - beige

3 A - purple



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1.3.2 Fuses assignment on E-box on left in engine compartment (not AXX, AXZ, BLV, BPY, BWA) to 04.2005

No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
F1	-	Fuse 1 on fuse holder B -SB1-	5A 15A	-	Automatic gearbox control unit -J217- Mechatronic unit for dual clutch gearbox -J743-	30
F2	-	Fuse 2 on fuse holder B -SB2-	30A	-	ABS control unit -J104-	30
F3	-	Fuse 3 on fuse holder B -SB3-	20A	-	Convenience system central control unit -J393-	30
F4	-	Fuse 4 on fuse holder B -SB4-	5A	-	Onboard supply control unit -J519-	30
F5	-	Fuse 5 on fuse holder B -SB5-	20A	-	Treble horn -H2- Bass horn -H7-	30
F6	-	Fuse 6 on fuse holder B -SB6-		-	Not assigned	30
F7	-	Fuse 7 on fuse holder B -SB7-		-	Not assigned	30
F8	-	Fuse 8 on fuse holder B -SB8-		-	Not assigned	87
F9	-	Fuse 9 on fuse holder B -SB9-		-	Not assigned	87
F10	-	Fuse 10 on fuse holder B -SB10-		-	Not assigned	87
F11	-	Fuse 11 on fuse holder B -SB11-		-	Not assigned	87
F12	-	Fuse 12 on fuse holder B -SB12-		-	Not assigned	87
F13	-	Fuse 13 on fuse holder B -SB13-		-	Not assigned	30
F14	-	Fuse 14 on fuse holder B -SB14-		-	Not assigned	30
F15	-	Fuse 15 on fuse holder B -SB15-		-	Not assigned	87
F16	-	Fuse 16 on fuse holder B -SB16-	10A	-	Steering column electronics control unit -J527-	30
F17	-	Fuse 17 on fuse holder B -SB17-	5A	-	Control unit in dash panel insert -J285-	30
F18	-	Fuse 18 on fuse holder B -SB18-	30A	-	Amplifier -R12- Special vehicle control unit -J608-	30
F19	-	Fuse 19 on fuse holder B -SB19-	15A	-	Radio -R- Control unit with display for radio and navigation -J503- Control unit with display for TV, radio, navigation system -J506- (Japan)	30
F20	-	Fuse 20 on fuse holder B -SB20-	5A	-	Aerial selection control unit -J515- Mobile telephone operating electronics control unit -J412-	30
F21	-	Fuse 21 on fuse holder B -SB21-		-	Not assigned	30
F22	-	Fuse 22 on fuse holder B -SB22-		-	Not assigned	30
F23	-	Fuse 23 on fuse holder B -SB23-	10A	-	Terminal 15 voltage supply relay -J329- Engine control unit -J623-	30
F24	-	Fuse 24 on fuse holder B -SB24-	10A	-	Data bus diagnostic interface -J533-	30
F25	-	Fuse 25 on fuse holder B -SB25-		-	Not assigned	30
F26	-	Fuse 26 on fuse holder B -SB26-	10A	-	Terminal 30 voltage supply relay -J317-	30

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No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
F27	-	Fuse 27 on fuse holder B -SB27-	20A 10A 1)	-	N... - Ignition coils with final output stages for cylinders 1-4 Ignition transformer -N152- Electric fuel pump 2 relay -J49- Automatic glow period control unit -J179-	87
F28	-	Fuse 28 on fuse holder B -SB28-	25A 30A 1)	-	Engine control unit -J623-	87
F29	-	Fuse 29 on fuse holder B -SB29-	15A 10A 1)	-	Secondary air pump relay -J299- Exhaust gas recirculation valve -N18- Charge pressure control solenoid valve -N75- Exhaust gas recirculation cooler changeover valve -N345- Lambda probe heater -Z19- Lambda probe heater 2 -Z28- Lambda probe 1 heater after catalytic converter -Z29-	87
F30	-	Fuse 30 on fuse holder B -SB30-	20A		Auxiliary heater control unit -J364-	30
F31	-	Fuse 31 on fuse holder B -SB31-	30A		Wiper motor control unit -J400-	30
F32	-	Fuse 32 on fuse holder B -SB32-		-	Not assigned	87
F33	-	Fuse 33 on fuse holder B -SB33-		-	Not assigned	87
F34	-	Fuse 34 on fuse holder B -SB34-		-	Not assigned	87
F35	-	Fuse 35 on fuse holder B -SB35-		-	Not assigned	30
F36	-	Fuse 36 on fuse holder B -SB36-		-	Not assigned	30
F37	-	Fuse 37 on fuse holder B -SB37-		-	Not assigned	30
F38	-	Fuse 38 on fuse holder B -SB38-	10A	-	Radiator fan control unit -J293- Map-controlled engine cooling system thermostat -F265- Exhaust gas recirculation valve -N18- Activated charcoal filter solenoid valve 1 -N80- Camshaft control valve 1 -N205- Intake manifold flap valve -N316- Intake manifold flap motor -V157-	87
F39	-	Fuse 39 on fuse holder B -SB39-	15A	-	Fuel pressure regulating valve -N276- Clutch position sender -G476-	87
F40	-	Fuse 40 on fuse holder B -SB40-	15A 10A 2)	-	NOx sensor control unit -J583- Lambda probe heater -Z19- Lambda probe 1 heater after catalytic converter -Z29- Lambda probe 2 heater after catalytic converter -Z30- Lambda probe 3 heater after catalytic converter -Z64-	87
F41	-	Fuse 41 on fuse holder B -SB41-		-	Not assigned	
F42	-	Fuse 42 on fuse holder B -SB42-		-	Not assigned	
F43	-	Fuse 43 on fuse holder B -SB43-		-	Not assigned	
F44	-	Fuse 44 on fuse holder B -SB44-		-	Not assigned	

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No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
F45	-	Fuse 45 on fuse holder B -SB45-		-	Not assigned	
F46	-	Fuse 46 on fuse holder B -SB46-		-	Not assigned	
F47	-	Fuse 47 on fuse holder B -SB47-	40A	-	Onboard supply control unit -J519- Right side light bulb -M3- Left headlight dipped beam bulb -M29- Left headlight main beam bulb -M30- Left tail light bulb -M4- (outer light ring) Right tail light bulb -M2- (inner light ring)	30
F48	-	Fuse 48 on fuse holder B -SB48-	40A	-	Onboard supply control unit -J519- Left side light bulb -M1- Right headlight dipped beam bulb -M31- Right headlight main beam bulb -M32- Right tail light bulb -M2- (outer light ring) Left tail light bulb -M4- (inner light ring)	30
F49	-	Fuse 49 on fuse holder B -SB49-	50A	-	Onboard supply control unit -J519- (terminal 15 supply)	30
F50	-	Fuse 50 on fuse holder B -SB50-	60A	-	Second battery charging circuit relay -J713-	30
F51	-	Fuse 51 on fuse holder B -SB51-		-	Not assigned	30
F52	-	Fuse 52 on fuse holder B -SB52-	60A	-	Heated windscreen -Z2-	30
F53	-	Fuse 53 on fuse holder B -SB53-	50A	-	Onboard supply control unit -J519- (terminal 75 supply) Left fuse holder (SC40-SC42, SD39)	30
F54	-	Fuse 54 on fuse holder B -SB54-	50A	-	Automatic glow period control unit -J179- Secondary air pump motor -V101-	30

1) Only models with diesel engines

2) Only diesel engines and engine code BLY

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1.4 Fuse holder B -SB- on E-box high, on left in engine compartment

1.4.1 Fuse colours

50 A - red

40 A - orange

30 A - green

25 A - white

20 A - yellow

15 A - blue

10 A - red

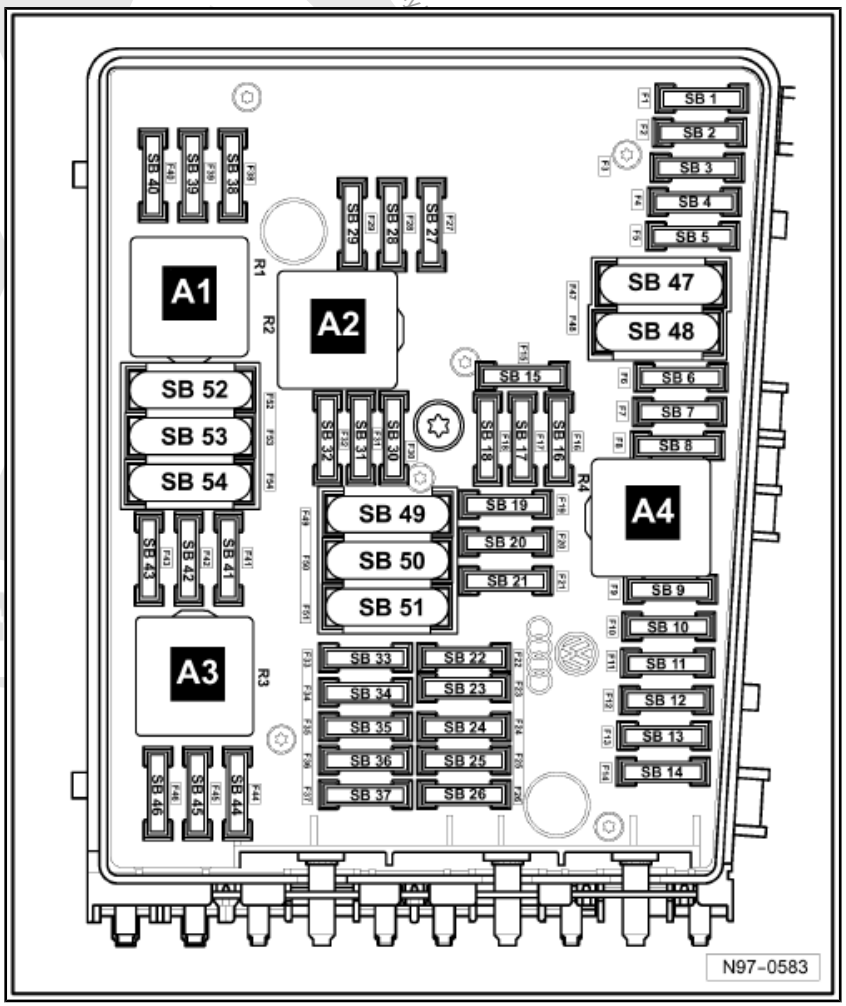
7.5 A - brown

5 A - beige

3 A - purple

Note

Specified torque settings ⇒ Electrical system, Repair Group 97, Removing and installing fuse holders



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1.4.2 Fuse assignment on E-box high, on left in engine compartment

No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
F1	-	Fuse 1 on fuse holder B -SB1-	5A 15A	-	Automatic gearbox control unit -J217- Mechatronic unit for dual clutch gearbox -J743-	30
F2	-	Fuse 2 on fuse holder B -SB2-	30A	-	ABS control unit -J104-	30
F3	-	Fuse 3 on fuse holder B -SB3-	20A	-	Convenience system central control unit -J393- [1] Trailer detector control unit -J345- [2)]	30
F4	-	Fuse 4 on fuse holder B -SB4-	5A	-	Onboard supply control unit -J519-	30
F5	-	Fuse 5 on fuse holder B -SB5-	20A	-	Treble horn -H2- Bass horn -H7-	30
F6	-	Fuse 6 on fuse holder B -SB6-	20A	-	Ignition coils with output stages -N...-	87
F7	-	Fuse 7 on fuse holder B -SB7-	15A 5A	-	Fuel pressure regulating valve -N276- Clutch position sender -G476-	87
F8	-	Fuse 8 on fuse holder B -SB8-	10A	-	Radiator fan control unit -J293- Activated charcoal filter solenoid valve 1 -N80- Camshaft control valve 1 -N205- Intake manifold flap valve -N316- Exhaust camshaft control valve 1 -N318- Suction jet pump valve -N401-	87
F9	-	Fuse 9 on fuse holder B -SB9-	5A	-	Circulation pump relay -J160-	87
F10	-	Fuse 10 on fuse holder B -SB10-	10A	-	Motronic current supply relay 2 -J670-	87
F11	-	Fuse 11 on fuse holder B -SB11-	25A 30A [3)]	-	Engine control unit -J623-	87
F12	-	Fuse 12 on fuse holder B -SB12-		-	Not assigned	87
F13	-	Fuse 13 on fuse holder B -SB13-		-	Not assigned	30
F14	-	Fuse 14 on fuse holder B -SB14-		-	Not assigned	
F15	-	Fuse 15 on fuse holder B -SB15-	10A	-	Circulation pump -V55-	87
F16	-	Fuse 16 on fuse holder B -SB16-	5A	-	Steering column electronics control unit -J527-	30
F17	-	Fuse 17 on fuse holder B -SB17-	5A	-	Control unit in dash panel insert -J285-	30
F18	-	Fuse 18 on fuse holder B -SB18-	30A	-	Amplifier -R12- Special vehicle control unit -J608-	30
F19	-	Fuse 19 on fuse holder B -SB19-	15A 20A[4]	-	Radio -R- Control unit with display for radio and navigation -J503- Control unit with display for TV, radio, navigation system -J506- (Japan)	30

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No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
F20	-	Fuse 20 on fuse holder B -SB20-	5A	-	Operating unit for preparation for mobile telephone -E508- 2) Aerial selection control unit -J515- 1) Mobile telephone operating electronics control unit -J412- 2) Telephone transmitter and receiver unit -R36- 1) TV tuner -R78- 5) Satellite digital radio tuner -R190- 5)	30
F21	-	Fuse 21 on fuse holder B -SB21-	10A	-	TV tuner -R78- 6) Satellite digital radio tuner -R190- 6)	30
F22	-	Fuse 22 on fuse holder B -SB22-	7.5A	-	Multimedia control unit -J650-	30
F23	-	Fuse 23 on fuse holder B -SB23-	10A 5A 7)	-	Radiator fan control unit -J293- Magnetic field sender for compass -G197- 2)	30
F24	-	Fuse 24 on fuse holder B -SB24-	5A 10A	-	Data bus diagnostic interface -J533-	30
F25	-	Fuse 25 on fuse holder B -SB25-		-	Not assigned	
F26	-	Fuse 26 on fuse holder B -SB26-	10A	-	Motronic current supply relay -J271- Engine control unit -J623-	30
F27	-	Fuse 27 on fuse holder B -SB27-		-	Not assigned	
F28	-	Fuse 28 on fuse holder B -SB28-		-	Not assigned	
F29	-	Fuse 29 on fuse holder B -SB29-		-	Not assigned	
F30	-	Fuse 30 on fuse holder B -SB30-	20A	-	Auxiliary heater control unit -J364-	30
F31	-	Fuse 31 on fuse holder B -SB31-	30A	-	Wiper motor control unit -J400-	30
F32	-	Fuse 32 on fuse holder B -SB32-	10A	-	Charge pressure control solenoid valve -N75- Activated charcoal filter solenoid valve 1 -N80- Turbocharger air recirculation valve -N249-	87
F33	-	Fuse 33 on fuse holder B -SB33-	15A	-	Fuel pressure regulating valve -N276- Lambda probe heater -Z19- Lambda probe heater 2 -Z28-	87
F34	-	Fuse 34 on fuse holder B -SB34-		-	Not assigned	
F35	-	Fuse 35 on fuse holder B -SB35-	20A	-	Auxiliary heater operation relay -J485-	29
F36	-	Fuse 36 on fuse holder B -SB36-		-	Not assigned	
F37	-	Fuse 37 on fuse holder B -SB37-		-	Not assigned	
F38	-	Fuse 38 on fuse holder B -SB38-		-	Not assigned	
F39	-	Fuse 39 on fuse holder B -SB39-		-	Not assigned	
F40	-	Fuse 40 on fuse holder B -SB40-		-	Not assigned	
F41	-	Fuse 41 on fuse holder B -SB41-		-	Not assigned	

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No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
F42	-	Fuse 42 on fuse holder B -SB42-		-	Not assigned	
F43	-	Fuse 43 on fuse holder B -SB43-		-	Not assigned	
F44	-	Fuse 44 on fuse holder B -SB44-	10A	-	Fuel system diagnostic pump -V144-	87
F45	-	Fuse 45 on fuse holder B -SB45-	10A	-	Lambda probe heater -Z19- Lambda probe 1 heater after catalytic converter -Z29- Lambda probe 2 heater after catalytic converter -Z30- Heating for Lambda probe 3 for bank 1 -Z92- Heating for Lambda probe 3 for bank 2 -Z93-	87
F46	-	Fuse 46 on fuse holder B -SB46-	10A	-	Lambda probe 1 heater after catalytic converter -Z29-	
F47	-	Fuse 47 on fuse holder B -SB47-	40A	-	Onboard supply control unit -J519- Right side light bulb -M3- Left headlight dipped beam bulb -M29- Left headlight main beam bulb -M30- Left tail light bulb -M4- (outer light ring) Right tail light bulb -M2- (inner light ring)	30
F48	-	Fuse 48 on fuse holder B -SB48-	40A	-	Onboard supply control unit -J519- Left side light bulb -M1- Right headlight dipped beam bulb -M31- Right headlight main beam bulb -M32- Right tail light bulb -M2- (outer light ring) Left tail light bulb -M4- (inner light ring)	30
F49	-	Fuse 49 on fuse holder B -SB49-	50A	-	Onboard supply control unit -J519- (terminal 15 supply)	30
F50	-	Fuse 50 on fuse holder B -SB50-	60A	-	Second battery charging circuit relay -J713-	30
F51	-	Fuse 51 on fuse holder B -SB51-		-	Not assigned	
F52	-	Fuse 52 on fuse holder B -SB52-	60A	-	Heated windscreen -Z2-	30
F53	-	Fuse 53 on fuse holder B -SB53-	50A	-	Onboard supply control unit -J519- (terminal 75 supply) Left fuse holder (SC40-SC42, SD39)	30
F54	-	Fuse 54 on fuse holder B -SB54-		-	Not assigned	30

1) To April 2006

2) From May 2006

3) Only models with diesel engines

4) Only RNS 510 and RNS 300, from November 2007

5) From November 2008

6) To October 2008

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7) From November 2006

1.5 Fuse holder B -SB- on E-box low, on left of engine compartment, from 05.2005

1.5.1 Fuse colours

50 A - red

40 A - orange

30 A - green

25 A - white

20 A - yellow

15 A - blue

10 A - red

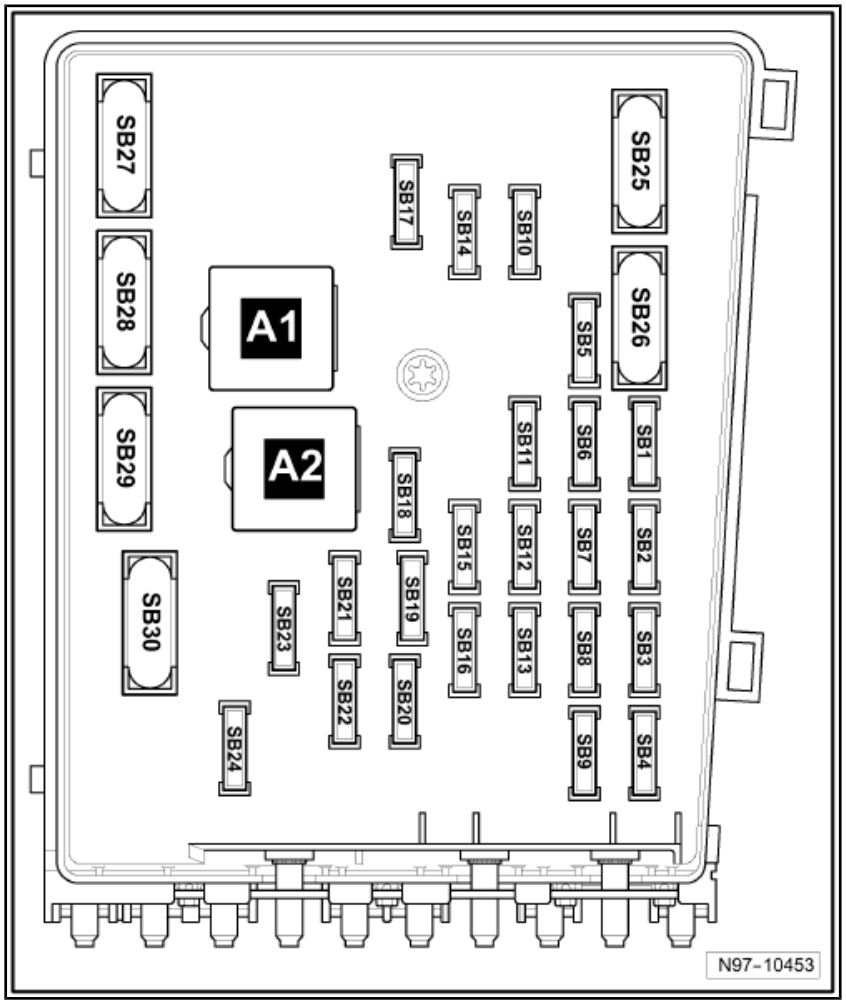
7.5 A - brown

5 A - beige

3 A - purple

Note

Specified torque settings ⇒ Electrical system, Repair Group 97, Removing and installing fuse holders



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1.6 Fuse assignment on E-box low, on left of engine compartment, from 05.2005

No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
F1	-	Fuse 1 on fuse holder B -SB1-	7.5A	-	Multimedia control unit -J650-	30
F2	-	Fuse 2 on fuse holder B -SB2-	30A	-	ABS control unit -J104-	30
F3	-	Fuse 3 on fuse holder B -SB3-	20A	-	Treble horn -H2- Bass horn -H7- Onboard supply control unit -J519-	30
F4	-	Fuse 4 on fuse holder B -SB4-	20A 25A	- -	Convenience system central control unit -J393- 1 Trailer detector control unit -J345- 2)	30
F5	-	Fuse 5 on fuse holder B -SB5-	5A	-	Battery monitor control unit -J367- Onboard supply control unit -J519-	30
F6	-	Fuse 6 on fuse holder B -SB6-	5A 15A	- -	Automatic gearbox control unit -J217- Mechatronic unit for dual clutch gearbox -J743-	30
F7	-	Fuse 7 on fuse holder B -SB7-	15A 20A 30A	- - -	Radio -R- Control unit with display for TV, radio, navigation system -J506- (Japan) Control unit with display for radio and navigation -J503- Voltage stabiliser -J532-	30
F8	-	Fuse 8 on fuse holder B -SB8-	30A	-	Mechatronic unit for dual clutch gearbox -J743-	30
F9	-	Fuse 9 on fuse holder B -SB9-	5A	-	Steering column electronics control unit -J527-	30
F10	-	Fuse 10 on fuse holder B -SB10-	20A	-	Fuel pump relay -J17- 3) Automatic glow period control unit -J179- 3) N...-Ignition coils with final output stages for cylinders 1-4	87
F11	-	Fuse 11 on fuse holder B -SB11-	5A	-	Control unit in dash panel insert -J285- 7)	30
F12	-	Fuse 12 on fuse holder B -SB12-	5A	-	Mobile telephone operating electronics control unit -J412- Aerial selection control unit -J515- 1) Operating unit for preparation for mobile telephone -E508- 2) TV tuner -R78- 4) Satellite digital radio tuner -R190- 4)	30
F13	-	Fuse 13 on fuse holder B -SB13-	10A	-	Motronic current supply relay -J271- Terminal 30 voltage supply relay -J317- Engine control unit -J623-	30
F14	-	Fuse 14 on fuse holder B -SB14-	30A 25A	- -	Engine control unit -J623- 3) Engine control unit -J623- 8)	87
F15	-	Fuse 15 on fuse holder B -SB15-	10A 5A6	-	Data bus diagnostic interface -J533-	30
F16	-	Fuse 16 on fuse holder B -SB16-	5A	-	Secondary air pump relay -J299-	87

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No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
			10A	-	Exhaust gas recirculation valve -N18- 3) Charge pressure control solenoid valve -N75- 3) Turbocharger air recirculation valve -N249- 3) Intake manifold flap valve -N316- Exhaust gas recirculation cooler changeover valve -N345- Lambda probe heater -Z19- Lambda probe heater 2 -Z28-	
F17	-	Fuse 17 on fuse holder B -SB17-	10A	-	Fuel tank shut-off valve 1 -N361- Fuel tank shut-off valve 2 -N362- Fuel tank shut-off valve 3 -N363-	30
			40A	-	Low heat output relay -J359- 6)	
F18	-	Fuse 18 on fuse holder B -SB18-	5A	-	Low heat output relay -J359- 6) High heat output relay -J360- 6)	87
	-		10A	-	Continued coolant circulation pump -V51-	
	-		30A	-	Control unit for reducing agent heater -J891-	
F19	-	Fuse 19 on fuse holder B -SB19-	30A	-	Amplifier -R12- Special vehicles	30
F20	-	Fuse 20 on fuse holder B -SB20-	5A		Auxiliary fuel pump relay -J832- Radiator fan control unit -J293- 9) Automatic glow period control unit -J179- 9)	87
	-		10A 10		Clutch position sender -G476- Activated charcoal filter solenoid valve 1 -N80- Camshaft control valve 1 -N205- Turbocharger air recirculation valve -N249- Intake manifold flap valve -N316- Secondary air inlet valve -N112-	
	-		15A		Clutch position sender -G476- Fuel pressure regulating valve -N276-	
F21	-	Fuse 21 on fuse holder B -SB21-	20A	-	Auxiliary heater control unit -J364-	30
F22	-	Fuse 22 on fuse holder B -SB22-	30A	-	Wiper motor control unit -J400-	30
F23	-	Fuse 23 on fuse holder B -SB23-	5A	-	Magnetic field sender for compass -G197- Automatic glow period control unit -J179-	87

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No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
	-		10A	-	Map-controlled engine cooling system thermostat -F265- Radiator fan control unit -J293- Activated charcoal filter solenoid valve 1 -N80- Variable intake manifold changeover valve -N156- Camshaft control valve 1 -N205- Intake manifold flap valve -N316- Intake manifold flap motor -V157- Lambda probe heater -Z19- Lambda probe 1 heater after catalytic converter -Z29-	
F24	-	Fuse 24 on fuse holder B -SB24-	10A[5] 15A[5]	-	NOx sensor control unit -J583- Lambda probe heater -Z19- Lambda probe 1 heater after catalytic converter -Z29- Lambda probe 2 heater after catalytic converter -Z30- Lambda probe 3 heater after catalytic converter -Z64-	87
F25	-	Fuse 25 on fuse holder B -SB25-	40A	-	Onboard supply control unit -J519- Left side light bulb -M1- Right headlight dipped beam bulb -M31- Right headlight main beam bulb -M32- Right tail light bulb -M2- (outer light ring) Left tail light bulb -M4- (inner light ring)	30
F26	-	Fuse 26 on fuse holder B -SB26-	40A	-	Onboard supply control unit -J519- Right side light bulb -M3- Left headlight dipped beam bulb -M29- Left headlight main beam bulb -M30- Left tail light bulb -M4- (outer light ring) Right tail light bulb -M2- (inner light ring)	30
F27	-	Fuse 27 on fuse holder B -SB27-	60A	-	Heated windscreen -Z2-	30
F28	-	Fuse 28 on fuse holder B -SB28-	40A	-	Secondary air pump motor -V101-	30
	-		50A	-	Automatic glow period control unit -J179- [3]	
F29	-	Fuse 29 on fuse holder B -SB29-	50A	-	Onboard supply control unit -J519- X-contact relief relay -J59-	30
F30	-	Fuse 30 on fuse holder B -SB30-	50A	-	Onboard supply control unit -J519-	30

[1] To April 2006

[2] From May 2006

[3] Only models with diesel engines

[4] From November 2008

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5) Depends on equipment

6) From November 2006

7) Only models with start/stop system

8)Only models with a petrol engine

9)Only engine code CBAC

10)Only engine code CBFA

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1.7 Fuse holder C -SC- , dash panel on driver's side, to April 2008

1.7.1 Fuse colours

50 A - red

40 A - orange

30 A - green

25 A - white

20 A - yellow

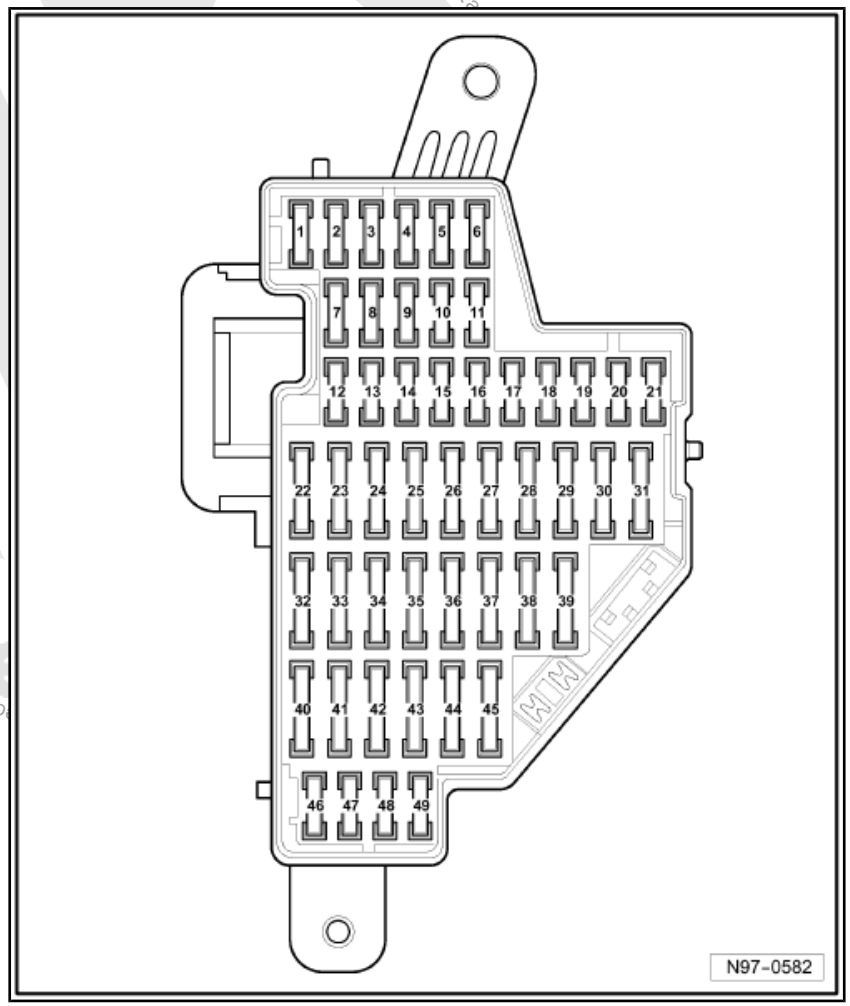
15 A - blue

10 A - red

7.5 A - brown

5 A - beige

3 A - purple



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1.8 Fuse assignment on fuse holder C, on driver's side of dash panel, to April 2008

No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
1		Fuse 1 on fuse holder C -SC1-	10A		Diagnostic connection -T16-	15
2	-	Fuse 2 on fuse holder C -SC2-	5A	-	TCS and ESP button -E256- Auto-hold button -E540-	15
3	-	Fuse 3 on fuse holder C -SC3-	5A	-	Power steering control unit -J500-	15
4	-	Fuse 4 on fuse holder C -SC4-	5A	-	Brake light switch -F-	15
5	-	Fuse 5 on fuse holder C -SC5-	10A	-	Headlight range control regulator -E102- Power output module for left headlight -J667- Left headlight range control motor -V48- Right headlight range control motor -V49-	15
6	-	Fuse 6 on fuse holder C -SC6-	5A	-	Trailer detector control unit -J345-	15
7	-	Fuse 7 on fuse holder C -SC7-	5A	-	Control unit in dash panel insert -J285- Data bus diagnostic interface -J533-	15
8	-	Fuse 8 on fuse holder C -SC8-	5A	-	Rear roller blind switch -E149- 1) Garage door operating unit -E284- 1) Rear roller blind control unit -J262- 1) Automatic anti-dazzle interior mirror -Y7-	15
9		Fuse 9 on fuse holder C -SC9-	10A	-	All-wheel drive control unit -J492-	15
10	-	Fuse 10 on fuse holder C -SC10-	5A	-	Motronic current supply relay -J271- Engine control unit -J623- Motronic current supply relay 2 -J670-	15
11	-	Fuse 11 on fuse holder C -SC11-	5A	-	Accident data recorder button -E497- (Police) taximeter -G41- (taxi) mirror taximeter -G511- (taxi) accident data memory -J754- Tachograph coupling point (Police) Special signal system coupling point (Police) Warning buzzer for pedal switch on front passenger side -F349- (driving school)	15
12	-	Fuse 12 on fuse holder C -SC12-	10A	-	Driver door control unit -J386- Rear right door control unit -J389- 2)	30
13	-	Fuse 13 on fuse holder C -SC13-	10A	-	Light switch -E1- Diagnostic connection -T16-	30
14	-	Fuse 14 on fuse holder C -SC14-	5A	-	Electronic steering column lock control unit -J764-	30
15	-	Fuse 15 on fuse holder C -SC15-	5A	-	Onboard supply control unit -J519- (30g) Front interior light -W1-	30
16	-	Fuse 16 on fuse holder C -SC16-	10A	-	Electronic ignition lock -D9-	30

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No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
17	-	Fuse 17 on fuse holder C -SC17-	10A	-	Interior monitor send and receive module 1 -G303- Rain and light sensor -G397- Vehicle inclination sender -G384- Alarm horn -H12- Remote control receiver for supplementary coolant heater -R149-	30
18	-	Fuse 18 on fuse holder C -SC18-	-	-	Not assigned	-
19	-	Fuse 19 on fuse holder C -SC19-	-	-	Not assigned	-
20	-	Fuse 20 on fuse holder C -SC20-	-	-	Not assigned	-
21	-	Fuse 21 on fuse holder C -SC21-	-	-	Not assigned	-
22	-	Fuse 22 on fuse holder C -SC22-	10A 5A	-	Air mass meter -G70- Electric fuel pump 2 relay -J49-	15
23	-	Fuse 23 on fuse holder C -SC23-	10A	-	Crankcase breather heater element -N79- (cold countries)	15
24	-	Fuse 24 on fuse holder C -SC24-	5A 20A[3]	-	Reversing light switch -F4- Multifunction switch -F125- Automatic gearbox control unit -J217- Mechatronic unit for dual clutch gearbox -J743-	15
25	-	Fuse 25 on fuse holder C -SC25-	10A	-	Injectors -N...- [4] Garage door operating unit -E284- [5]	15
26	-	Fuse 26 on fuse holder C -SC26-	10A	-	Rear roller blind switch -E149- [6] Rear roller blind control unit -J262- [6]	15
27	-	Fuse 27 on fuse holder C -SC27-	5A	-	Fresh air blower relay -J13- [7] Climatronic control unit -J255- [8]	15
28	-	Fuse 28 on fuse holder C -SC28-	20A	-	Trailer detector control unit -J345- [2]	30
29	-	Fuse 29 on fuse holder C -SC29-	20A	-	Trailer detector control unit -J345- (left tail light, brake light, left/right turn signal) [5] Control unit for electromechanical parking brake -J540- [2]	30
30	-	Fuse 30 on fuse holder C -SC30-	15A	-	Trailer detector control unit -J345- (right tail light, rear fog light, reversing light) [5] Control unit for electromechanical parking brake -J540- [2]	30
31	-	Fuse 31 on fuse holder C -SC31-	25A 15A[9]	-	Trailer detector control unit -J345- [5] Fuel pump relay -J17- Electric fuel pump 2 relay -J49- Fuel pump control unit -J538- [9]	30
32	-	Fuse 32 on fuse holder C -SC32-	30A	-	Onboard supply control unit -J519- (heated rear window)	30
33	-	Fuse 33 on fuse holder C -SC33-	20A	-	Sliding sunroof adjustment control unit -J245-	30
34	-	Fuse 34 on fuse holder C -SC34-	15A	-	Fuel system pressurisation pump -G6-	30
35	-	Fuse 35 on fuse holder C -SC35-	30A 25A[9]	-	Headlight washer system relay -J39- Headlight washer system pump -V11-	30

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No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
36	-	Fuse 36 on fuse holder C -SC36-	20A	-	Auxiliary heater operation relay -J485- 10)	30
37	-	Fuse 37 on fuse holder C -SC37-	25A	-	Heated front seats control unit -J774-	30
38	-	Fuse 38 on fuse holder C -SC38-	15A	-	Trailer detector control unit -J345- 2) Cigarette lighter -U1- 5) Rear cigarette lighter -U9- 5)	30
39	-	Fuse 39 on fuse holder C -SC39-	40A	-	Fresh air blower control unit -J126- (Climatronic) Air conditioning system control unit -J301-	30
40	-	Fuse 40 on fuse holder C -SC40-	5A	-	Light switch -E1-	75
41	-	Fuse 41 on fuse holder C -SC41-	40A5 15A	-	Fresh air blower -V2- 5) Fresh air blower relay -J13- 5) Cigarette lighter -U1- 2) Rear cigarette lighter -U9- 2)	75
42	-	Fuse 41 on fuse holder C -SC42-	15A	-	Windscreen and rear window washer pump -V59- Rear window wiper motor -V12-	75
43	-	Fuse 43 on fuse holder C -SC43-	20A	-	Auxiliary heater control unit -J364-	30
44	-	Fuse 44 on fuse holder C -SC44-	20A	-	Auxiliary heater operation relay -J485-	30
45	-	Fuse 45 on fuse holder C -SC45-	25A	-	12 V socket -U5- 12 V socket 3 -U19- 11)	30
46	-	Fuse 46 on fuse holder C -SC46-	5A	-	2-way radio switch -E72- Engine continues to run with no key button -E489- Accident data memory -J754- Tachograph coupling point	30
47	-	Fuse 47 on fuse holder C -SC47-	15A	-	Taximeter -G41- 11) mirror taximeter -G511- 11) Taxi roof sign warning lamp -K222- 11) Interior light warning lamp -K224- 11) Taxi silent alarm bulb -L128- 11) Active alarm button illumination lamp -L180- 11) Luggage compartment light on left -W18- 12) Two-way radio coupling point in luggage compartment 12) 13) Glove compartment coupling point 11) Luggage compartment coupling point 11)	30
48	-	Fuse 48 on fuse holder C -SC48-	20A	-	Charger coupling point 12)	75
49	-	Fuse 49 on fuse holder C -SC49-		-	Not assigned	

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1) To May 2005

2) From May 2006

3) Only for automatic gearbox

4) To November 2005

5) To April 2006

6) From May 2005

7) Only Climatic with supplementary coolant heater

8) Only models with no supplementary coolant heater

9) From November 2006

10) Not with Climatronic

11) Only models with taxi equipment from May 2005

12) Only models with police equipment from May 2005

13) Only models with crime investigation equipment from May 2005

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1.9 Fuse holder C -SC- , dash panel on driver's side, from May 2008

1.9.1 Fuse colours

30 A - green

25 A - white

20 A - yellow

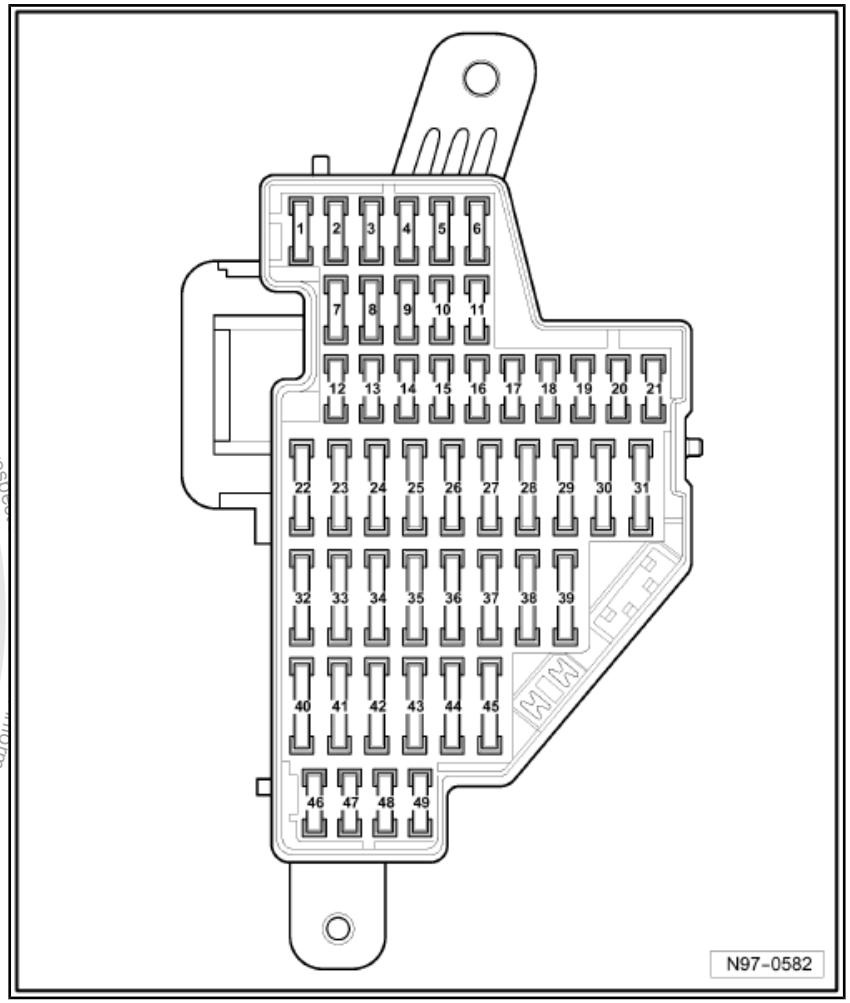
15 A - blue

10 A - red

7.5 A - brown

5 A - beige

3 A - purple



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1.10 Fuse assignment on fuse holder C -SC- , dash panel on driver's side, from May 2008

No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
1		Fuse 1 on fuse holder C -SC1-	10A		Rear roller blind switch -E149- Rear roller blind motor -V91-	15
2	-	Fuse 2 on fuse holder C -SC2-	5A	-	TCS and ESP button -E256- Auto-hold button -E540- ABS control unit -J104- Control unit for electromechanical parking brake -J540-	15
3	-	Fuse 3 on fuse holder C -SC3-	5A	-	Light switch -E1- Brake light switch -F- Oil level and oil temperature sender -G266- Power steering control unit -J500-	15
4	-	Fuse 4 on fuse holder C -SC4-	5A	-	Electronically controlled damping control unit -J250- Trailer detector control unit -J345- Cornering light and headlight range control unit -J745- Diagnostic connection -T16-	15
5	-	Fuse 5 on fuse holder C -SC5-	10A	-	Switch and instrument illumination regulator -E20- Headlight range control regulator -E102- Power output module for left headlight -J667- Left headlight range control motor -V48-	15
6	-	Fuse 6 on fuse holder C -SC6-	10A	-	All-wheel drive control unit -J492-	15
7	-	Fuse 7 on fuse holder C -SC7-	5A	-	Control unit in dash panel insert -J285- Data bus diagnostic interface -J533-	15
8	-	Fuse 8 on fuse holder C -SC8-	10A	-	Power output module for right headlight -J668- Right headlight range control motor -V49-	15
9		Fuse 9 on fuse holder C -SC9-	10A	-	Airbag control unit -J234- Seat occupied recognition control unit -J706- Front passenger side airbag deactivated warning lamp -K145-	15
10	-	Fuse 10 on fuse holder C -SC10-	10A	-	Tiptronic switch -F189- Air mass meter -G70- Fuel pump control unit -J538- Motronic current supply relay -J271- Engine control unit -J623- Motronic current supply relay 2 -J670-	15
11	-	Fuse 11 on fuse holder C -SC11-	5A	-	Accident data recorder button -E497- (Police) taximeter -G41- (taxi) mirror taximeter -G511- (taxi) accident data memory -J754- Tachograph coupling point (Police) Special signal system coupling point (Police) Warning buzzer for pedal switch on front passenger side -F349- (driving school)	15

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No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
12	-	Fuse 12 on fuse holder C -SC12-	10A	-	Driver door control unit -J386- Front passenger door control unit -J387-	30
13	-	Fuse 13 on fuse holder C -SC13-	10A	-	Light switch -E1- Tiptronic switch -F189- Diagnostic connection -T16-	30
14	-	Fuse 14 on fuse holder C -SC14-	10A	-	Alarm horn relay -J641- (only American markets) Alarm horn -H12-	30
15	-	Fuse 15 on fuse holder C -SC15-	5A	-	Onboard supply control unit -J519- (30g) Front interior light -W1- Interior monitor send and receive module 1 -G303-	30
16	-	Fuse 16 on fuse holder C -SC16-	10A	-	Electronic ignition lock -D9- Electronic steering column lock control unit -J764-	30
17	-	Fuse 17 on fuse holder C -SC17-	5A	-	Electromechanical parking brake button -E538- ABS control unit -J104-	30
18	-	Fuse 18 on fuse holder C -SC18-	10A	-	Crankcase breather heater element -N79- (cold countries)	15
19	-	Fuse 19 on fuse holder C -SC19-	7.5A	-	Adaptive cruise control unit -J428- Parking aid control unit -J446- Lane departure warning control unit -J759- Park assist steering control unit -J791-	-
20	-	Fuse 20 on fuse holder C -SC20-	5A	-	Garage door operating unit -E284- (not for right-hand drive)	15
21	-	Fuse 21 on fuse holder C -0ASC21- Fuse 20 on fuse holder C -SC20-	10A	-	Automatic anti-dazzle interior mirror -Y7- Heated rear left seat switch with regulator -E128- Heated rear right seat switch with regulator -E129- High-pressure sender -G65- Air quality sensor -G238- Fresh air blower relay -J13- Left washer jet heater element -Z20- Right washer jet heater element -Z21- Air conditioning system control unit -J301- Voltage monitoring relay -J813- (Multimedia system RSE)	15
22	-	Fuse 22 on fuse holder C -SC22-	20A	-	Control unit for electromechanical parking brake -J540-	30
23	-	Fuse 23 on fuse holder C -SC23-	15A	-	Trailer detector control unit -J345-	30
24	-	Fuse 24 on fuse holder C -SC24-	20A	-	Control unit for electromechanical parking brake -J540-	30
25	-	Fuse 25 on fuse holder C -SC25-	20A	-	Trailer detector control unit -J345-	30
26	-	Fuse 26 on fuse holder C -SC26-	15A	-	Electronically controlled damping control unit -J250-	30
27	-	Fuse 27 on fuse holder C -SC27-	15A 1) 20A 2)	-	Fuel pump relay -J17- 2) Electric fuel pump 2 relay -J49- 2) Fuel pump control unit -J538- 1) Auxiliary fuel pump relay -J832- 2)	30 1) 15 2)

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No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
28	-	Fuse 28 on fuse holder C -SC28-	10A	-	Rear left door control unit -J388- Rear right door control unit -J389- Convenience system central control unit -J393-	30
29	-	Fuse 29 on fuse holder C -SC29-	25A	-	Heated rear seats control unit -J786-	30
30	-	Fuse 30 on fuse holder C -SC30-	20A	-	Sliding sunroof adjustment control unit -J245-	30
31	-	Fuse 31 on fuse holder C -SC31-	30A	-	AC/DC converter with socket, 12 V - 230 V -U13- AC/DC converter with socket, 12 V - 230 V -U27- (only for American markets)	30
32	-	Fuse 32 on fuse holder C -SC32-	30A	-	Onboard supply control unit -J519- (heated rear window)	30
33	-	Fuse 33 on fuse holder C -SC33-	30A	-	Headlight washer system relay -J39- Headlight washer system pump -V11-	30
34	-	Fuse 34 on fuse holder C -SC34-	25A	-	Heated front seats control unit -J774-	30
35	-	Fuse 35 on fuse holder C -SC35-	30A	-	Rear left door control unit -J388- Rear right door control unit -J389-	30
36	-	Fuse 36 on fuse holder C -SC36-	15A	-	Driver seat lumbar support adjustment switch -E176- Rake adjustment button -E421- Backrest adjustment button -E425-	30
37	-	Fuse 37 on fuse holder C -SC37-	10A	-	Magnetic field sender for compass -G197- Rain and light sensor -G397- Climatronic control unit -J255- Air conditioning system control unit -J301- Reversing camera system control unit -J772- Remote control receiver for supplementary coolant heater -R149- Voltage monitoring relay -J813- (Multimedia system RSE)	30
38	-	Fuse 38 on fuse holder C -SC38-	40A	-	Fresh air blower relay -J13- Fresh air blower control unit -J126- (Climatronic) Air conditioning system control unit -J301- (Climatic)	75
39	-	Fuse 39 on fuse holder C -SC39-	15A[3] 5A	-	Multifunction switch -F125- [3] Automatic gearbox control unit -J217- [3)] Reversing light switch -F4- Mechatronic unit for dual clutch gearbox -J743-	15
40	-	Fuse 40 on fuse holder C -SC40-	15A	-	Second battery charging circuit relay -J713- Washer pump -V5- Rear window wiper motor -V12-	75
41	-	Fuse 41 on fuse holder C -SC41-	20A	-	Cigarette lighter -U1- [2)] Rear cigarette lighter -U9- [2)]	75
42	-	Fuse 41 on fuse holder C -SC42-	15A	-	12 V socket -U5-	75
43	-	Fuse 43 on fuse holder C -SC43-	20A	-	Auxiliary heater control unit -J364- (only with second battery)	30
44	-	Fuse 44 on fuse holder C -SC44-	30A	-	Driver door control unit -J386- Front passenger door control unit -J387-	30

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No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
45	-	Fuse 45 on fuse holder C -SC45-	20A	-	Auxiliary heater operation relay -J485- (only with second battery)	30
46	-	Fuse 46 on fuse holder C -SC46-		-	Not assigned	
47	-	Fuse 47 on fuse holder C -SC47-	10A	-	Telephone transmitter and receiver unit -R36- 4)	30
48	-	Fuse 48 on fuse holder C -SC48-	5A	-	Control unit in dash panel insert -J285- 4)	30
49	-	Fuse 49 on fuse holder C -SC49-		-	Not assigned	

1) Only models with a petrol engine

2) Only models with a diesel engine

3) Only models with a 6-speed automatic gearbox

4) Only models with start/stop system

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1.11 Fuse holder D -SD- , dash panel on front passenger side, to April 2008

1.11.1 Fuse colours

30 A - green

25 A - white

20 A - yellow

15 A - blue

10 A - red

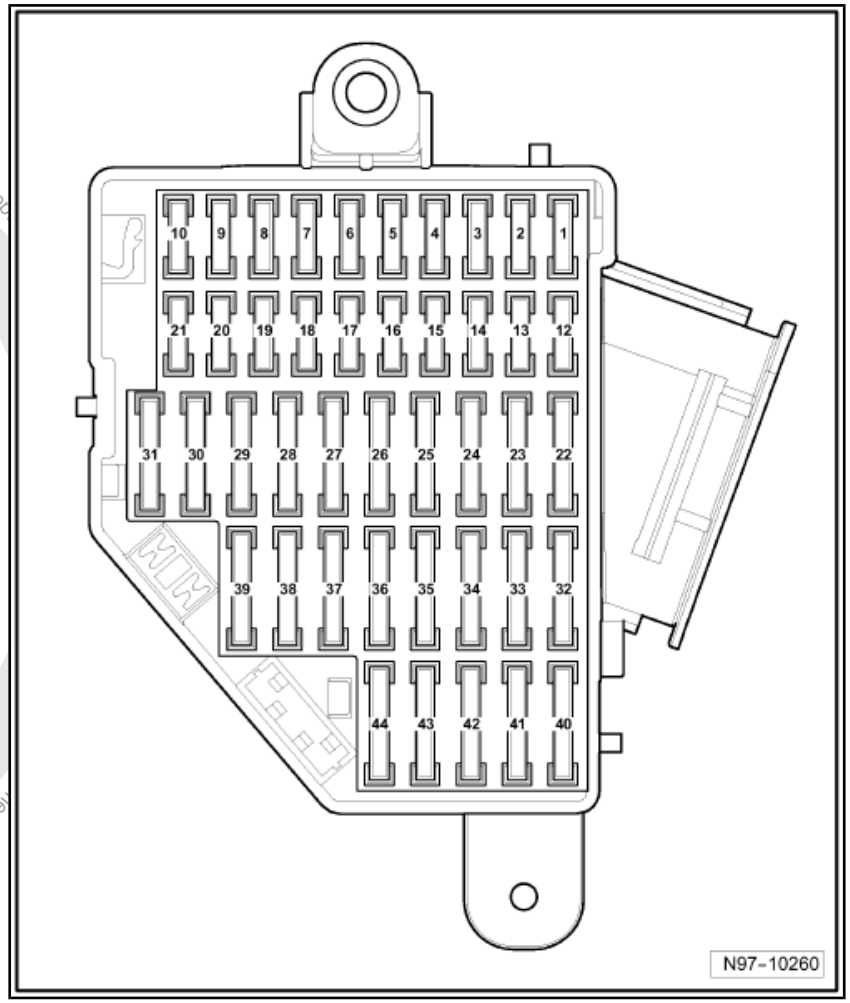
7.5 A - brown

5 A - beige

3 A - purple

Note

Slot SD11 has been discontinued.



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1.12 Fuse assignment on fuse holder D -SD- , dash panel on front passenger side, to April 2008

No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
1	-	Fuse 1 on fuse holder D -SD1-	5A	-	Magnetic field sender for compass -G197- 1)	15
2	-	Fuse 2 on fuse holder D -SD2-	5A	-	Control unit for electromechanical parking brake -J540- ABS control unit -J104-	15
3	-	Fuse 3 on fuse holder D -SD3-	5A	-	Magnetic field sender for compass -G197- 2) Parking aid control unit -J446-	15
4	-	Fuse 4 on fuse holder D -SD4-	5A	-	Adaptive cruise control unit -J428-	15
5	-	Fuse 5 on fuse holder D -SD5-	10A	-	Power output module for right headlight -J668- (only with gas discharge lights)	15
6	-	Fuse 6 on fuse holder D -SD6-	5A	-	Tiptronic switch -F189-	15
7	-	Fuse 7 on fuse holder D -SD7-	5A	-	Cornering light and headlight range control unit -J745- (only with gas discharge lights)	15
8	-	Fuse 8 on fuse holder D -SD8-	5A	-	High-pressure sender -G65- Oil level and oil temperature sender -G266-	15
9	-	Fuse 9 on fuse holder D -SD9-	10A	-	Front passenger side airbag deactivated warning lamp -K145- Airbag control unit -J234- Seat occupied recognition control unit -J706-	15
10	-	Fuse 10 on fuse holder D -SD10-	5A	-	Fuel pump control unit -J538- (BLF, BLR, BLY, AXX, BPY, BLX, BVX, BVY, BVZ, BWA)	15
11	-	Fuse 11 on fuse holder D -SD11-		-	- Not assigned	
12	-	Fuse 12 on fuse holder D -SD12-	10A	-	Front passenger door control unit -J387- Rear right door control unit -J389- 2)	30
13	-	Fuse 13 on fuse holder D -SD13-	10A	-	Parking aid control unit -J446- 2)	30
14	-	Fuse 14 on fuse holder D -SD14-	5A	-	Reversing camera system control unit -J772- 3)	30
15	-	Fuse 15 on fuse holder D -SD15-	5A	-	Climatronic control unit -J255- Air conditioning system control unit -J301-	30
16	-	Fuse 16 on fuse holder D -SD16-	5A	-	Tiptronic switch -F189-	30
17	-	Fuse 17 on fuse holder D -SD17-	5A	-	Electromechanical parking brake warning lamp -K213- ABS control unit -J104-	30
18	-	Fuse 18 on fuse holder D -SD18-		-	- Not assigned	
19	-	Fuse 19 on fuse holder D -SD19-		-	- Not assigned	
20	-	Fuse 20 on fuse holder D -SD20-		-	- Not assigned	
21	-	Fuse 21 on fuse holder D -SD21-		-	- Not assigned	
22	-	Fuse 22 on fuse holder D -SD22-	30A	-	AC/DC converter with socket, 12 V - 230 V -U13- AC/DC converter with socket, 12 V - 230 V -U27- (only American markets)	30

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23	-	Fuse 23 on fuse holder D -SD23-	30A	-	Rear left door control unit -J388- Rear right door control unit -J389-	30
24	-	Fuse 24 on fuse holder D -SD24-	30A	-	Power latching control unit for rear left door -J762- (Variant)	30
25	-	Fuse 25 on fuse holder D -SD25-	30A	-	Power latching control unit for rear right door -J763- (Variant)	30
26	-	Fuse 26 on fuse holder D -SD26-		-	- Not assigned	
27	-	Fuse 27 on fuse holder D -SD27-	25A	-	Heated rear seats control unit -J786-	30
28	-	Fuse 28 on fuse holder D -SD28-	15A	-	Fuel pump control unit -J538- (AXZ, BLV) 2)	30
29	-	Fuse 29 on fuse holder D -SD29-	30A	-	Driver door control unit -J386- Front passenger door control unit -J387-	30
30	-	Fuse 30 on fuse holder D -SD30-	20A	-	Control unit for electromechanical parking brake -J540- 2) Convenience system central control unit -J393- 4)	30
31	-	Fuse 31 on fuse holder D -SD31-	20A 15A	-	Control unit for electromechanical parking brake -J540- 2) Fuel pump control unit -J538- 4)	30
32	-	Fuse 32 on fuse holder D -SD32-		-	- Not assigned	
33	-	Fuse 33 on fuse holder D -SD33-	20A	-	12 V socket -U5- 2) 12 V socket 2 -U18- 2)	30
34	-	Fuse 34 on fuse holder D -SD34-	15A	-	Fuel pump control unit -J538- (AXX, BPY, BLF, BLR, BLY, BLX, BVX, BVY, BVZ, BWA) 2)	30
35	-	Fuse 35 on fuse holder D -SD35-	20A	-	Cigarette lighter -U1- 2) Rear cigarette lighter -U9- 2)	30
36	-	Fuse 36 on fuse holder D -SD36-		-	- Not assigned	
37	-	Fuse 37 on fuse holder D -SD37-		-	- Not assigned	
38	-	Fuse 38 on fuse holder D -SD38-	15A	-	12 V socket -U5- 5)	75
39	-	Fuse 39 on fuse holder D -SD39-	10A	-	Heated driver seat regulator -E94- 2) Heated front passenger seat regulator -E95- 2) Heated rear left seat switch with regulator -E128- 2) Heated rear right seat switch with regulator -E129- 2) Climatronic control unit -J255- Air conditioning system control unit -J301- Second battery charging circuit relay -J713- Left washer jet heater element -Z20- Right washer jet heater element -Z21-	75
40	-	Fuse 40 on fuse holder D -SD40-	5A	-	Accident data memory -J754- 6)	

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41	-	Fuse 41 on fuse holder D -SD41-	15A	-	Taximeter -G41- 6) mirror taximeter -G511- 6) Taxi roof sign warning lamp -K222- 6) Interior light warning lamp -K224- 6) Active alarm button illumination lamp -L180- 6) Glove compartment coupling point 6) Luggage compartment coupling point 6)	30
42	-	SD42 - Fuse 42 on fuse holder D	20A	-	Glove compartment coupling point 6)	30
43	-	SD43 - Fuse 43 on fuse holder D	5A	-	Taxi alarm remote control control unit -J601- 6) Special signal system coupling point (Police) Glove compartment coupling point 7) Luggage compartment coupling point 7)	30
44	-	SD44 - Fuse 44 on fuse holder D	10A	-	Taxi alarm remote control control unit -J601- 7) 12 V socket 3 -U19- 6) Special signal system coupling point (Police)	30

1) Only models from May 2005

2) Only models to April 2006

3) Only models from November 2007

4) Only models from May 2006 and to October 2006

5) Only models from May 2006

6) Only models with taxi equipment to May 2005

7) Only models with taxi equipment from May 2005

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1.13 Fuse holder D -SD- , dash panel on front passenger side, from May 2008

1.13.1 Fuse colours

30 A - green

25 A - white

20 A - yellow

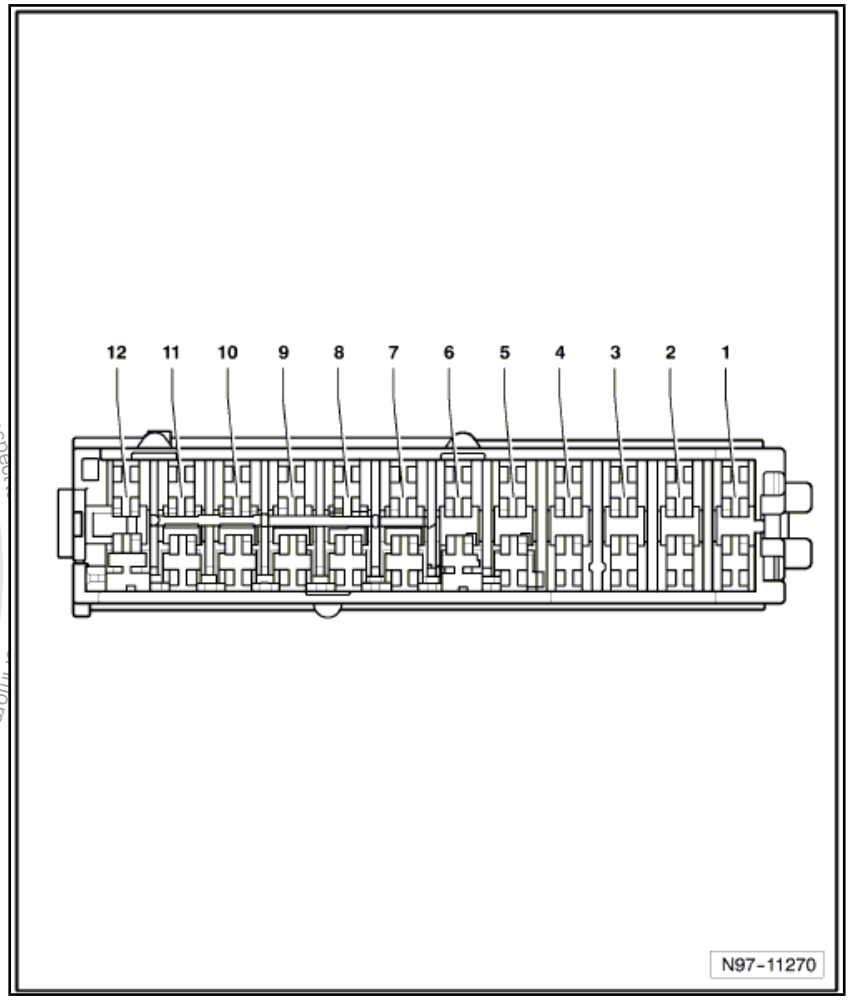
15 A - blue

10 A - red

7.5 A - brown

5 A - beige

3 A - purple

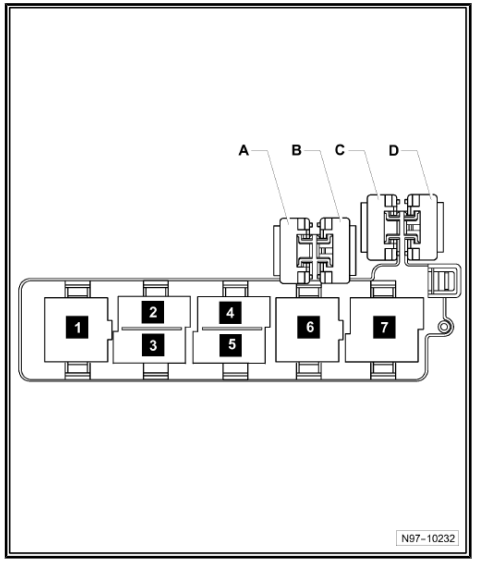


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1.14 Fuse assignment on fuse holder D -SD- , dash panel on front passenger side, from May 2008

No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
1	-	Fuse 1 on fuse holder D -SD1-	30A	-	Rear lid control unit 2 -J756- (only Variant)	30
2	-	Fuse 2 on fuse holder D -SD2-	30A	-	Rear lid control unit -J605- (only Variant)	30
3	-	Fuse 3 on fuse holder D -SD3-		-	- Not assigned	
4	-	Fuse 4 on fuse holder D -SD4-		-	- Not assigned	75
5	-	Fuse 5 on fuse holder D -SD5-		-	- Reserved for special vehicles	30
6	-	Fuse 6 on fuse holder D -SD6-		-	- Reserved for special vehicles	30
7	-	Fuse 7 on fuse holder D -SD7-		-	- Reserved for special vehicles	30
8	-	Fuse 8 on fuse holder D -SD8-		-	- Reserved for special vehicles	30
9	-	Fuse 9 on fuse holder D -SD9-		-	- Reserved for special vehicles	30
10	-	Fuse 10 on fuse holder D -SD10-		-	- Not assigned	
11	-	Fuse 11 on fuse holder D -SD11-		-	- Not assigned	
12	-	Fuse 12 on fuse holder D -SD12-		-	- Not assigned	

1.15 Circuit breakers, on left under dash panel



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1.15.1 Fuse assignment

Introduction date	Slot A	Slot B	Slot C	Slot D
From November 2004	Not assigned	Not assigned	Front passenger seat adjustment thermal fuse 1 -S46- 30A	Fuse in fuse holder -S224- 15A [1] / 30A [2]
From November 2005	Front passenger seat adjustment thermal fuse 1 -S46- 30A	Driver seat adjustment thermal fuse 1 -S44- 15A [1] Fuse in fuse holder -S224- 30A [2]	Not assigned	Not assigned
From November 2006	Front passenger seat adjustment thermal fuse 1 -S46- 30A	Fuse in fuse holder -S224- 15A [1] / 30A [2]	Not assigned	Not assigned
From November 2007	Front passenger seat adjustment thermal fuse 1 -S46- 30A	Fuse in fuse holder -S224- 15A [1] / 30A [2] Driver seat adjustment thermal fuse 1 -S44- 30A [3]	Not assigned	Not assigned
From May 2008	Not assigned	Driver seat adjustment thermal fuse 1 -S44- 20A [2]	Not assigned	Not assigned
From May 2009	Fuse in fuse holder -S223- 3A [4]	Driver seat adjustment thermal fuse 1 -S44- 20A [2]	Not assigned	Not assigned

[1] Only models with no memory function

[2] Only models with memory function

[3] Only models with 12-way seat

[4] Only models with start/stop system

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1.16 Fuse holder F -SF- , in rear left of luggage compartment (AXZ, BLV, BWS)

1.16.1 Specified torques

⇒ Electrical system, Repair Group 97, Removing and installing fuse holders

Fuse colours

30 A - green

25 A - white

20 A - yellow

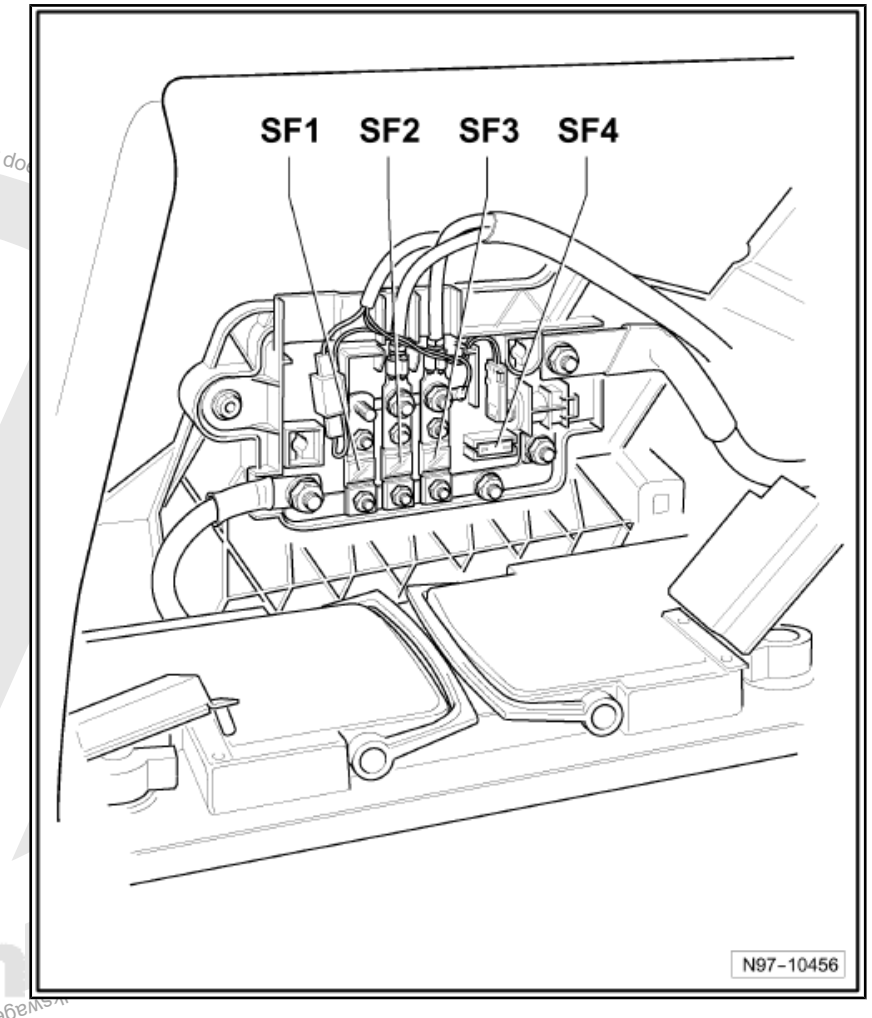
15 A - blue

10 A - red

7.5 A - brown

5 A - beige

3 A - purple



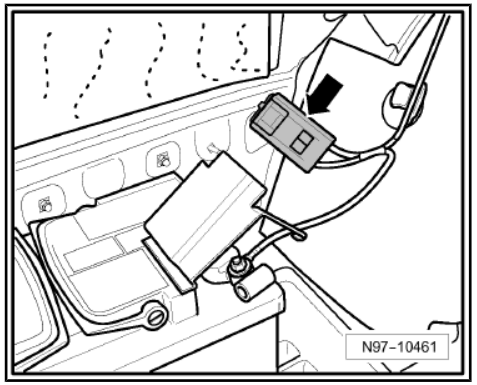
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1.17 Fuse assignment on fuse holder F -SF- , in rear left of luggage compartment (AXZ, BLV, BWS)

No.		Current Flow Diagram designation	Nominal value		Function/component	Terminal
1	-	Fuse 1 on fuse holder F -SF1-	30A	-	- Left fuse holder (SC12-SC17, SC29-SC31) 1) - Right fuse holder (SD12-SD17, SD28, SD29-SD31) 1)	30
2	-	Fuse 2 in fuse holder F -SF2-	80A	-	- Fuses in E- box (SB16-SB26, SB49, SB50)	30
3	-	Fuse 3 on fuse holder F -SF3-	125A	-	- Voltage supply E-box	30
4	-	Fuse 4 on fuse holder F -SF4-	5A	-	Onboard supply control unit -J519-	30

1) Only models from May 2006

1.18 Fuse 2 (30) -S205-



1.18.1 Fitting location:

In luggage compartment behind left side panel trim -arrow-

1.18.2 Fuse rating:

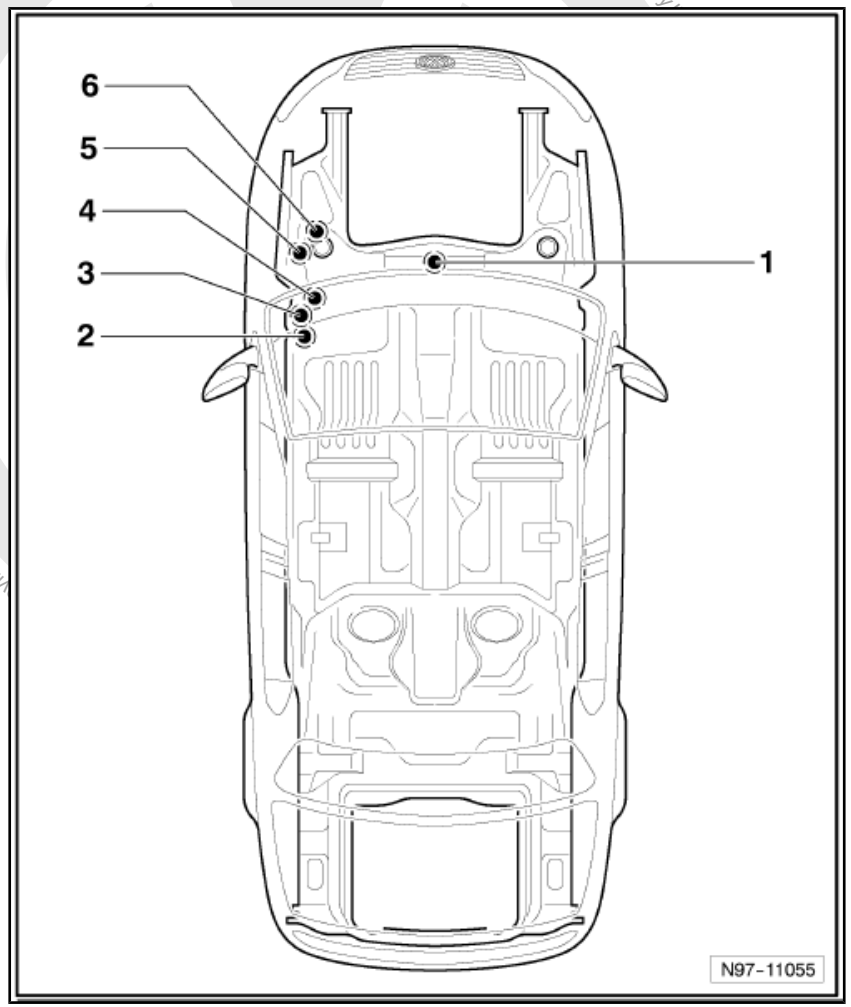
- 70 A - Saloon
- 60 A - Variant

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1 Relay

1.1 Overview of relay carriers

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1 - Heated windscreen relay -J47-

- ❑ Fitting location ⇒ ⇒ page 10

2 - Relay carrier on onboard supply control unit

- ❑ In driver footwell
- ❑ Relay assignment ⇒ page 8

3 - Relay carrier 1

- ❑ on left under dash panel
- ❑ Relay assignment ⇒ page 7

4 - Relay carrier 2

- ❑ on left under dash panel
- ❑ Relay assignment ⇒ page 9

5 - Relay carrier on E-box

- ❑ on left in engine compartment
- ❑ Relay assignment on E-box high ⇒ page 2
- ❑ Relay assignment for E-box low ⇒ page 4

6 - Additional relay carrier

- ❑ Under electronics box in engine compartment, left
- ❑ Relay assignment to November 2005 and from November 2006 ⇒ page 5
- ❑ Relay assignment from November 2005 and to November 2006 ⇒ page 6

1.2 Relay locations on electronics box, in left engine compartment (box high)

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A1 - Current bridge

A2 - Circulation pump relay -J160- (100)

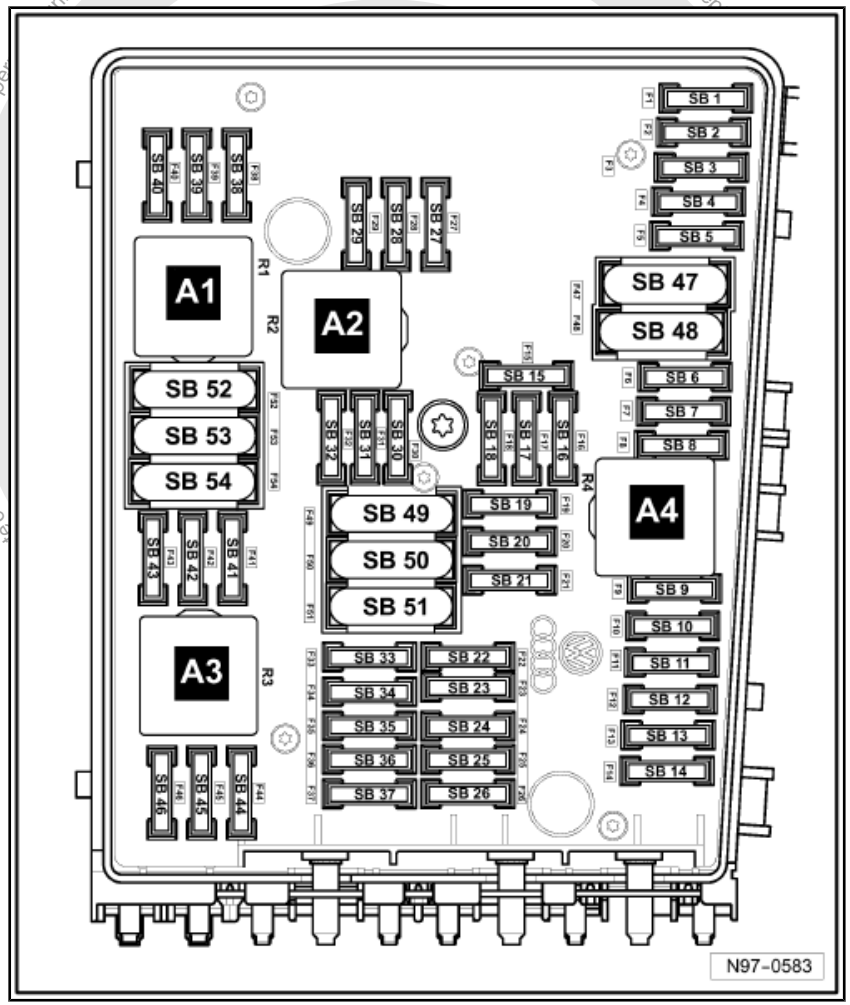
A3 - Motronic current supply relay 2 -J670- (167)

A4 - Main relay -J271- (100)

- ❑ petrol engines only

A4 - Terminal 30 voltage supply relay -J317- (100)

- ❑ diesel engines only



1.2.1 Relay locations on electronics box, in engine compartment left (High box), only BKC, BMP, BLF, BKP, BMA, BLS, BLR, BLY up to 04.2005

A1 - Main relay -J271- (458)

- ❑ petrol engines only

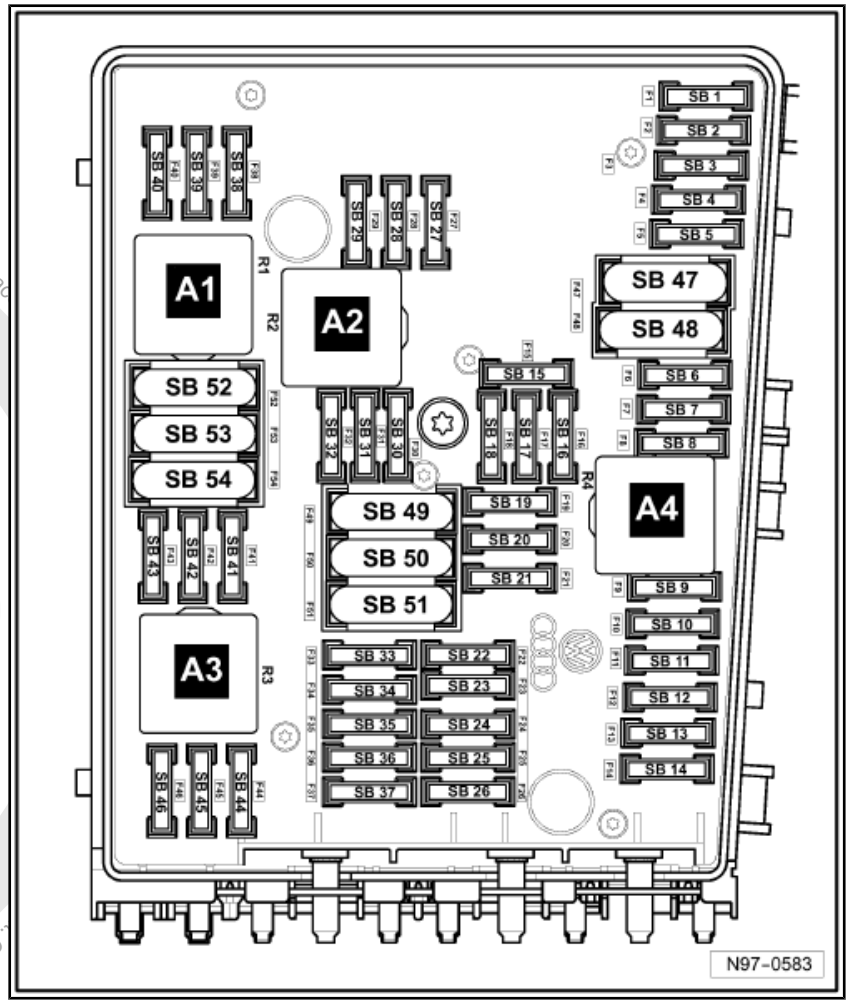
A1 - Terminal 30 voltage supply relay -J317- (458)

- ❑ diesel engines only

A2 - Secondary air pump relay -J299- (100)

A3 - Not assigned

A4 - Not assigned



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1.3 Relay locations on electronics box, in left engine compartment (Low box)

A1 - Current bridge

- ❑ For diesel engines only

A1 - Secondary air pump relay -J299- (100)

- ❑ Only BSE, BSF, BYT, BZB, CBFA

A1 - Auxiliary coolant pump relay -J496- (100)

- ❑ Only CAXA

A1 - Relay for gas shut-off valves -J908- (100)

- ❑ Only CDGA

A1 - Engine component current supply relay -J757- (100)

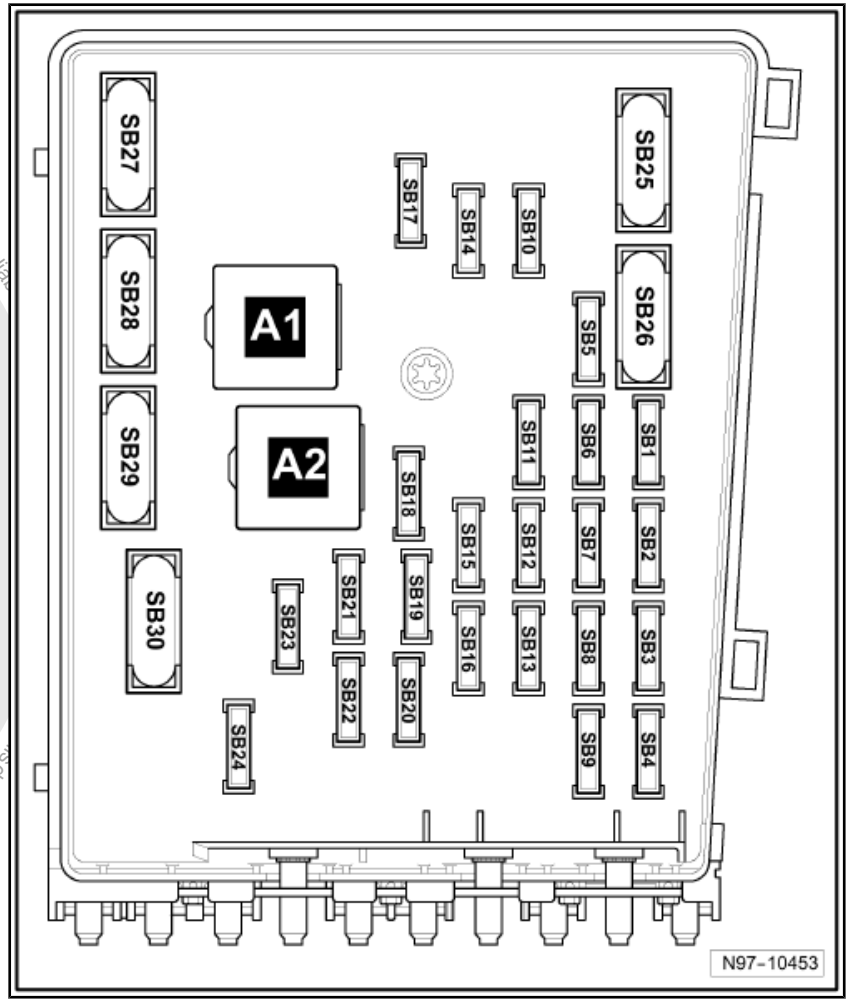
- ❑ Only BZB, CAWB, CCTA, CGYA

A2 - Main relay -J271- (458)/(100)

- ❑ petrol engines only

A2 - Terminal 30 voltage supply relay -J317- (458)/(100)

- ❑ diesel engines only



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1.4 Position of Relays in Auxiliary Relay Carrier under Electronics Box, in engine compartment, left (to November 2005 and from November 2006)

Note

The additional relay carrier is located under the E-box and is only visible when the E-box is removed.

C1 - Starter relay 1 -J906- (643)

C2 - Automatic glow period control unit -J179- (457)

C3 - Continued coolant circulation relay -J151- (449)

- applicable up to October 2007

C3 - Not assigned

- From November 2007

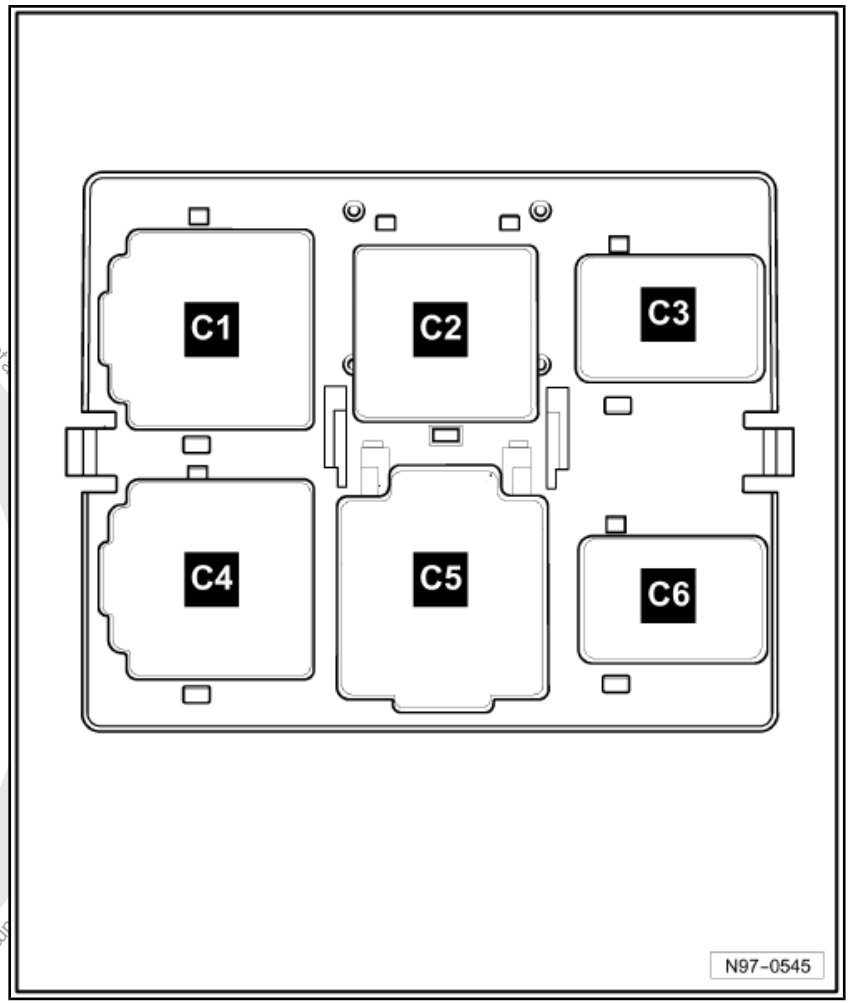
C4 - Low heat output relay -J359- (53)

C5 - High heat output relay -J360- (100)

C5 - High heat output relay -J360- (370)

- may occur as deviating ID number from May 2010

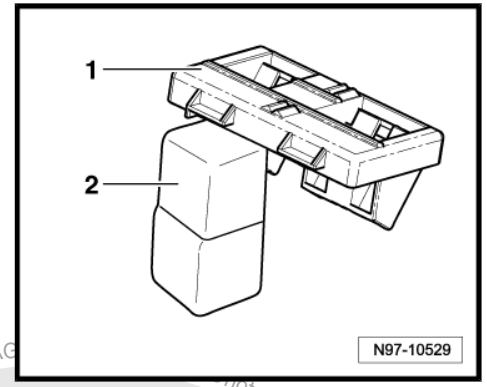
C6 - Starter relay 2 -J907- (489)



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1.5 Relay position assignment on additional relay carrier under electronics box in left engine compartment (from November 2005)

1.5.1 Automatic glow period control unit -J179-



1 - Additional relay carrier, under electronics box in engine compartment, left

2 - Automatic glow period control unit -J179-

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1.6 Relay positions in relay carrier 1, under left dash panel

1 - Auxiliary heater operation relay -J485- (53)
- ❑ Only Climatic

- Voltage monitoring relay -J813-
- ❑ Only with Multimedia RSE

2 - Continued coolant circulation relay -J151- (449)
- ❑ only for 1.8 l / 2.0 l TFSI and 1.4 l BiTFSI

- Electric fuel pump 2 relay -J49- (449)
- ❑ Only for Common-rail diesel engines

- Current supply relay -J16- (449)
- ❑ applicable from May 2009
- ❑ Only 6-cylinder petrol engines and 1.6L / 77 kW Common Rail diesel

3 - Fresh air blower relay -J13- (404), from May 2008 (449)
- ❑ only auxiliary coolant heater

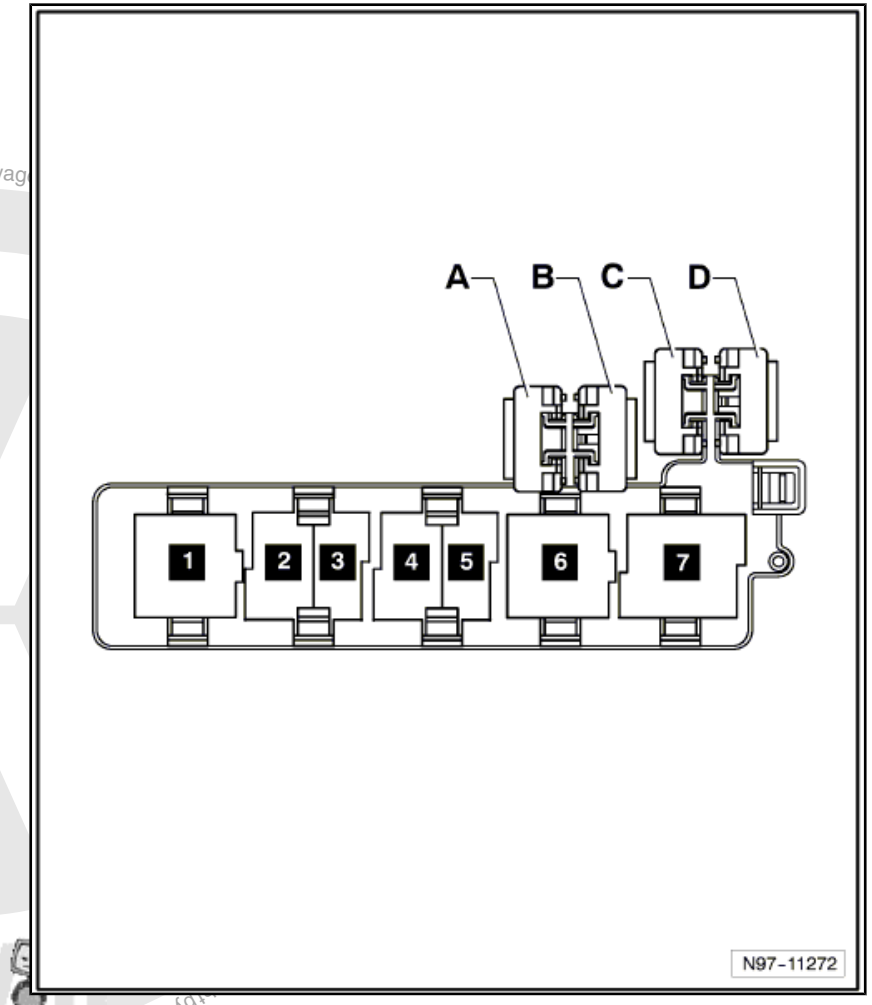
4 - Fuel pump relay -J17- (404), from May 2008 (449)

5 - Electric fuel pump 2 relay -J49- (404), from May 2008 (449)

6 - Headlight washer system relay -J39- (53)

7 - Terminal 50 voltage supply relay -J682- (433), from November 2006 (53)

7 - Terminal 50 voltage supply relay -J682- (433)
- ❑ Only vehicles with 0GT emissions standard from November 2009



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1.7 Relay assignment, relay carrier on onboard supply control unit, in driver's footwell

B1 - Terminal 15 voltage supply relay -J329- (460)

B2 - Not assigned

B3 - Not assigned

B4 - Terminal 30 voltage supply relay 2 -J689- (449)

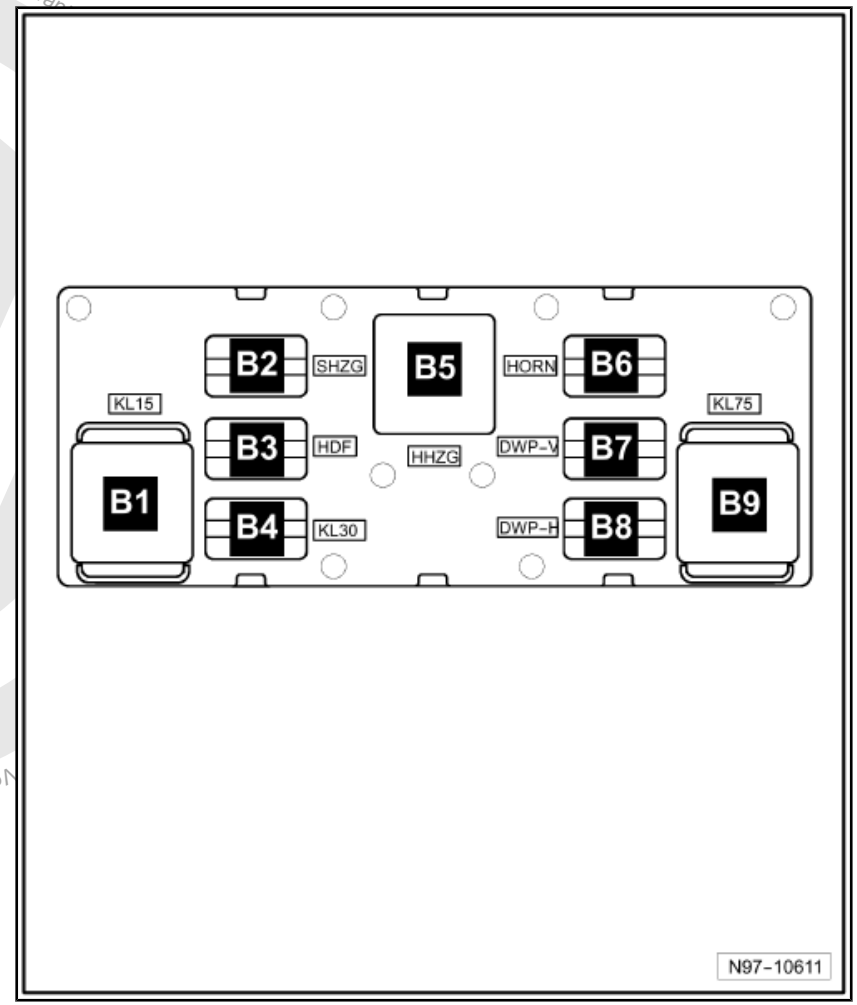
B5 - Heated rear window relay -J9- (53)

B6 - Dual tone horn relay -J4- (449)

B7 - Double washer pump relay 1 -J729- (404)

B8 - Double washer pump relay 2 -J730- (404)

B9 - X-contact relief relay -J59- (460)



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1.8 Relay positions in relay carrier 2, under left dash panel

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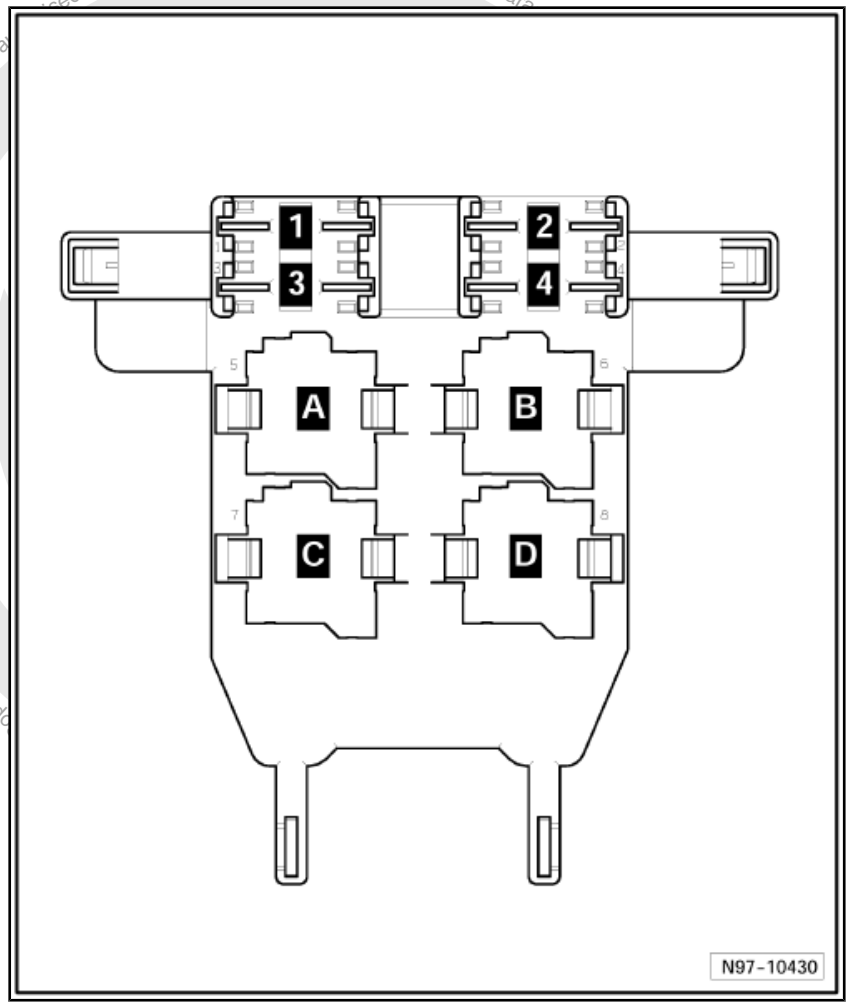
A - Isolation relay for powertrain CAN bus -J788- (479)

B - Not assigned

C - Second battery charging circuit relay -J713- (478)

D - Alarm horn relay -J641- (53)

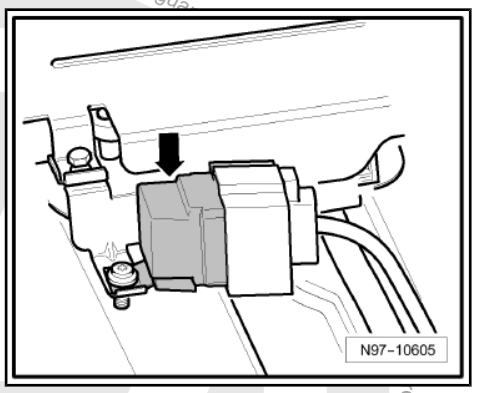
- ❑ American markets only



1.9 Heated windscreen relay -J47-

1.9.1 Location:

In plenum chamber next to engine control unit -arrow-



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1 Control units in engine compartment

1.1 Overview of control units

1 - Auxiliary heater control unit -J364-
- ❑ Fitting location ⇒ page 2
- ❑ Connector assignment ⇒ page 3
- ❑ Connections ⇒ page 3

2 - Power steering control unit -J500-
- ❑ Fitting location ⇒ page 4
- ❑ Connector assignment ⇒ page 5
- ❑ Connections ⇒ page 5

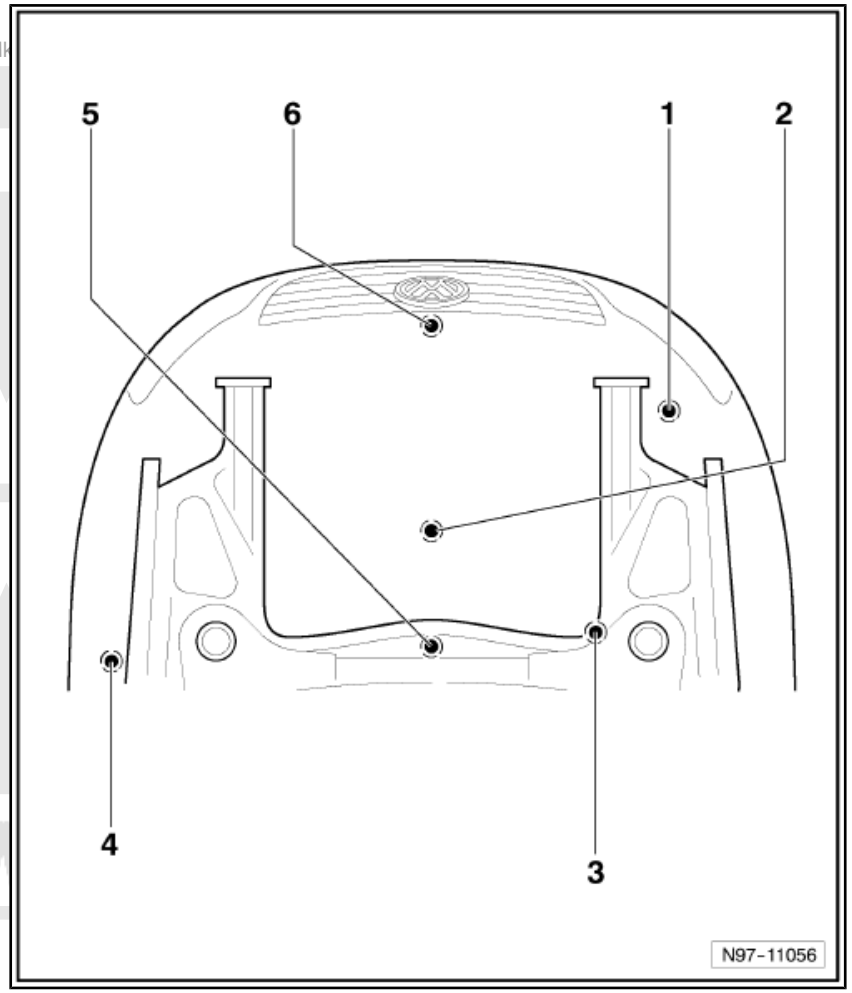
3 - ABS control unit -J104-
- ❑ Fitting location ⇒ page 6
- ❑ Connector assignment ⇒ page 7
- ❑ Connections ⇒ page 7

4 - Automatic gearbox control unit -J217-
- ❑ Fitting location ⇒ page 8
- ❑ Connector assignment ⇒ page 9
- ❑ Connections ⇒ page 9

4 - Voltage stabiliser -J532-
- ❑ Fitting location ⇒ page 13

5 - Engine control unit -J623-
- ❑ Fitting location ⇒ page 10
- ❑ 121-pin connector assignment ⇒ page 11
- ❑ 121-pin connector ⇒ page 11
- ❑ 154-pin connector assignment ⇒ page 12
- ❑ 154-pin connector ⇒ page 12

6 - Adaptive cruise control unit -J428-
- ❑ Fitting location ⇒ page 13

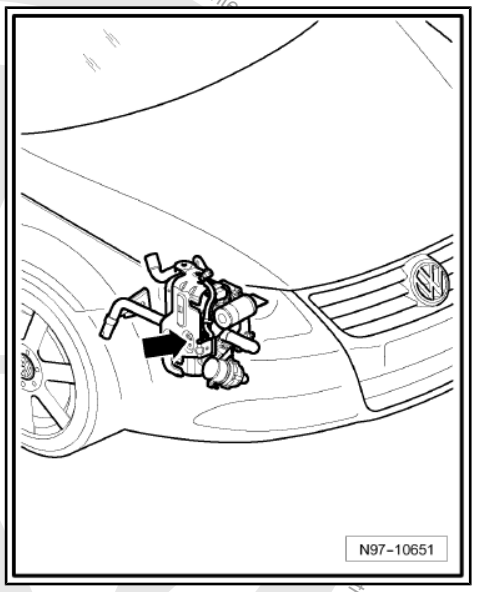


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1.2 Auxiliary heater control unit -J364-

1.2.1 Fitting location:

behind front right wheel housing liner -arrow-



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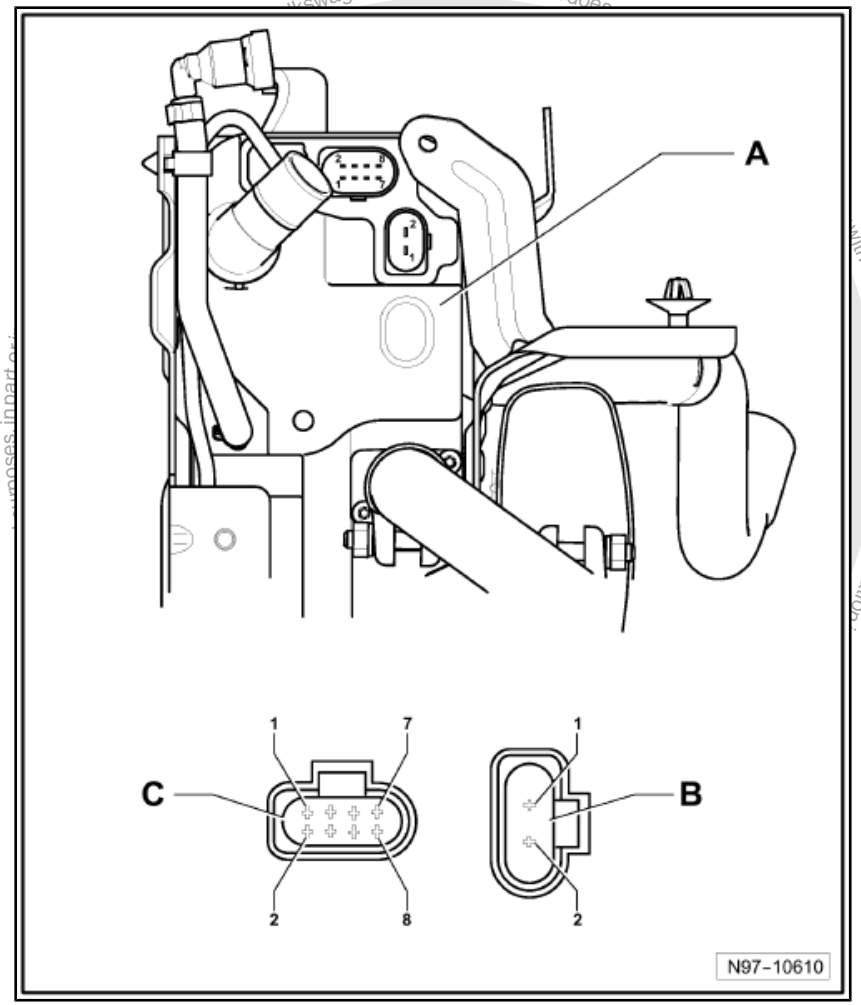
1.2.2 Connector assignment:

A - Auxiliary heater control unit -J364-

Connector:

B - 2-pin connector -T2cn-

C - 8-pin connector -T8ai-

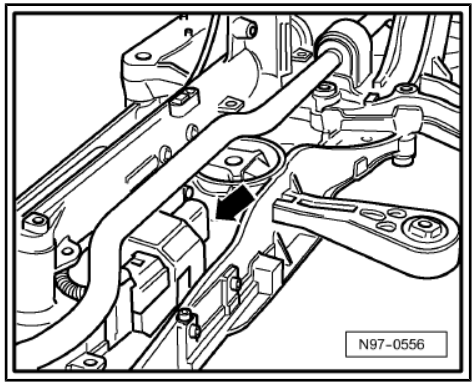


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1.3 Power steering control unit -J500-

1.3.1 Fitting location:

on steering on centre of assembly carrier -arrow-



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1.3.2 Connector assignment:

A - Power steering control unit -J500-

Connector:

B - 5-pin connector -T5s-

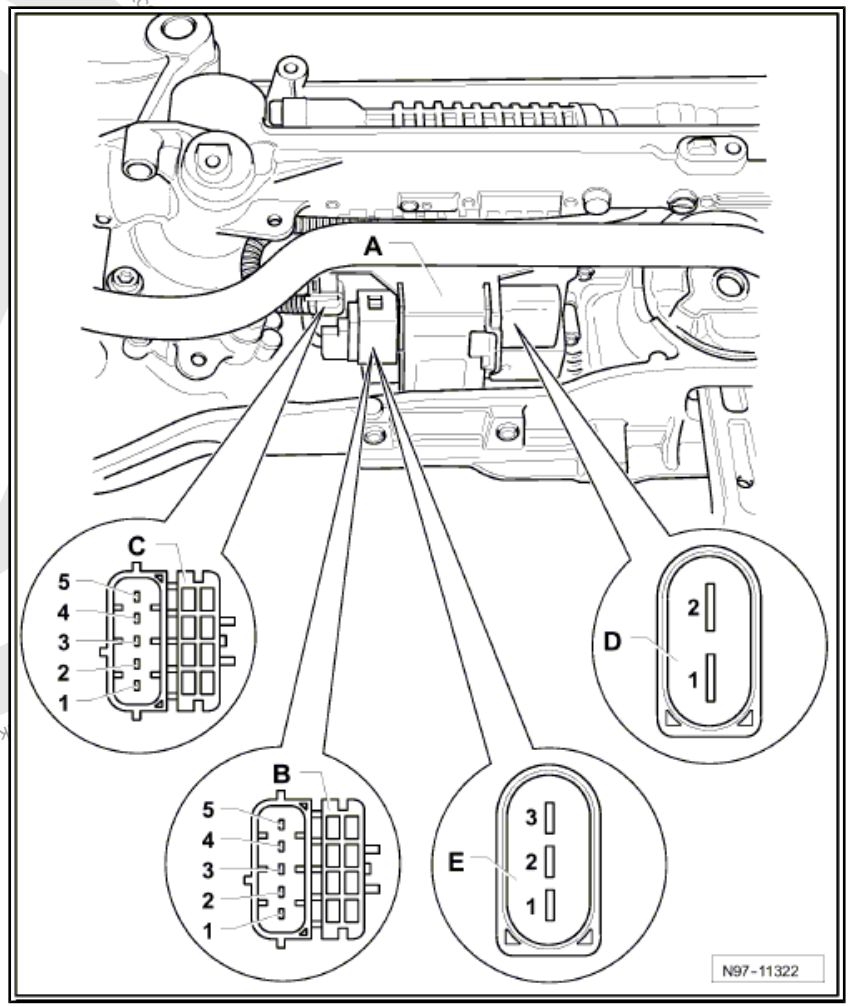
- ❑ Applicable to April 2008

C - 5-pin connector -T5z-

D - 2-pin connector -T2fn-

E - 3-pin connector -T3dt-

- ❑ Applicable from May 2008

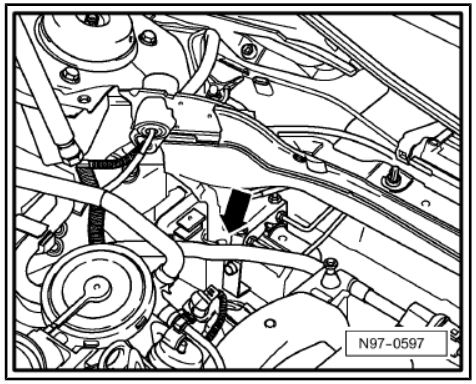


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1.4 ABS control unit -J104-

1.4.1 Fitting location:

on bulkhead, on right in engine compartment -arrow-



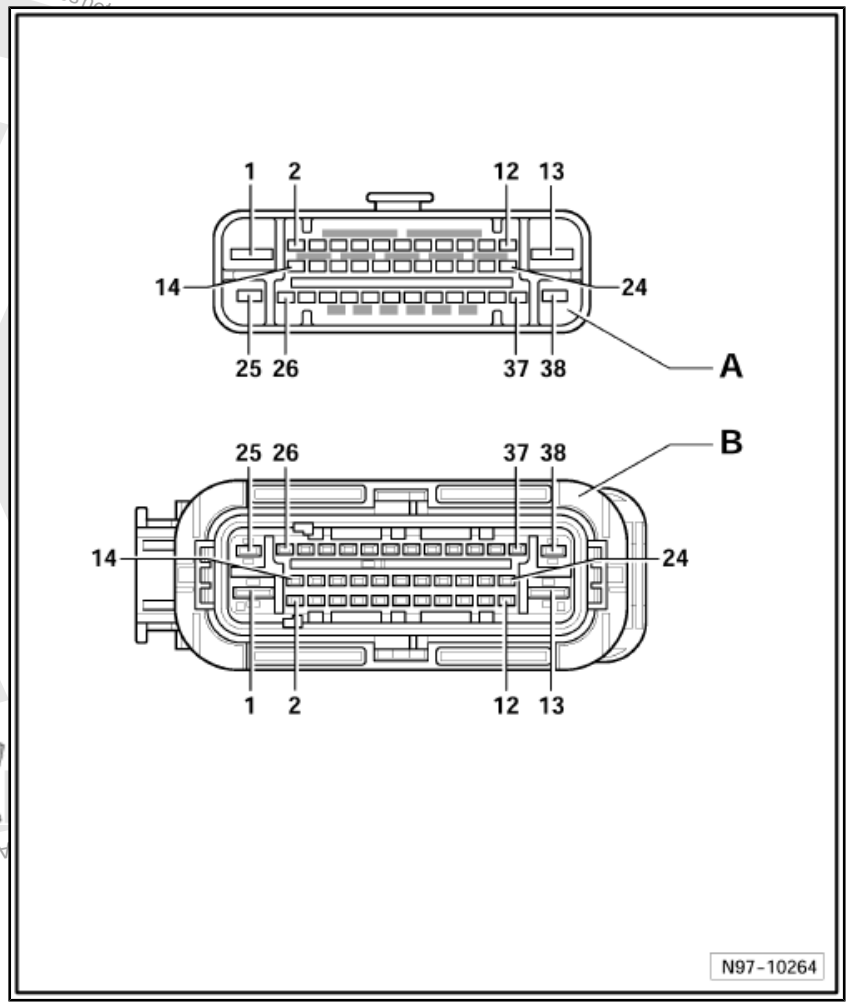
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1.4.2 Connector assignment:

A - ABS control unit -J104-

Connector:

B - 38-pin connector -T38-

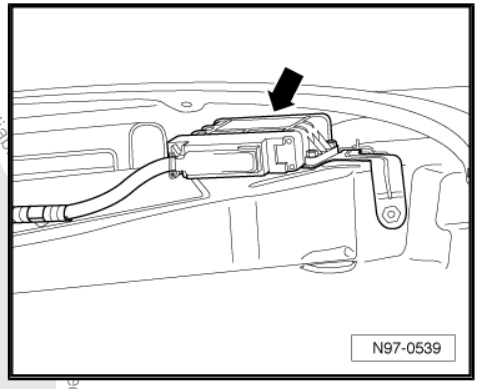


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1.5 Automatic gearbox control unit -J217-

1.5.1 Fitting location:

in front left wheel housing -arrow-



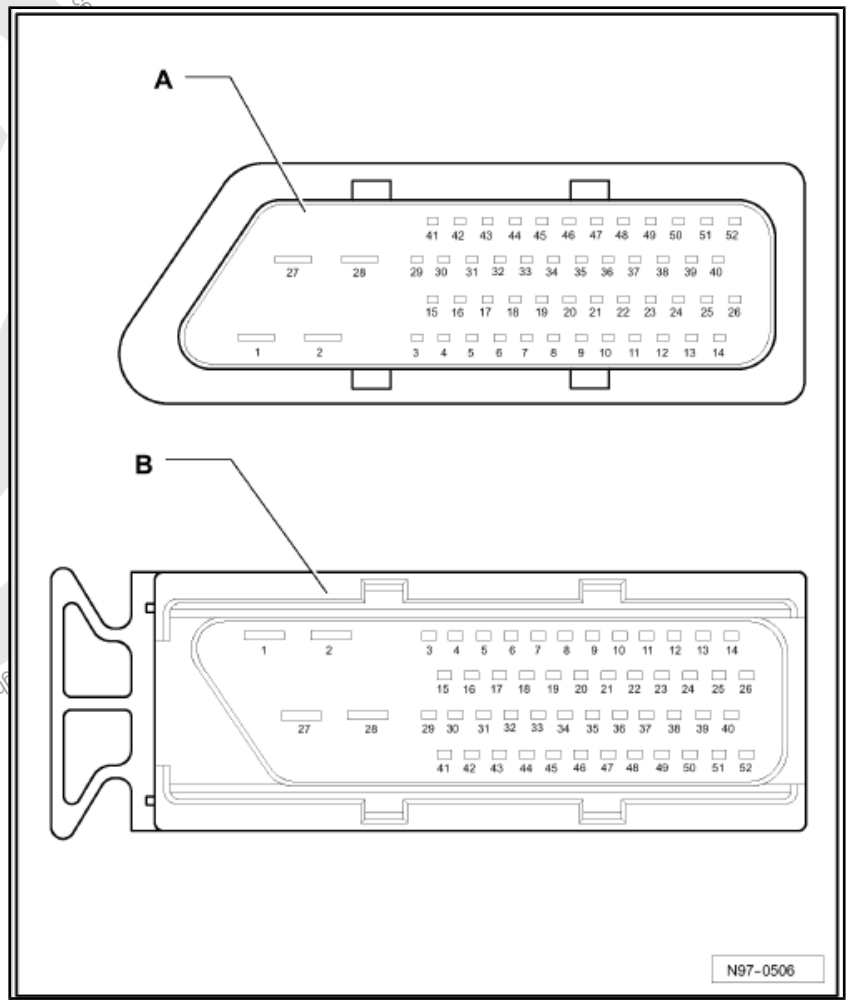
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1.5.2 Connector assignment:

A - Automatic gearbox control unit -J217-

Connector:

B - 52-pin connector -T52-

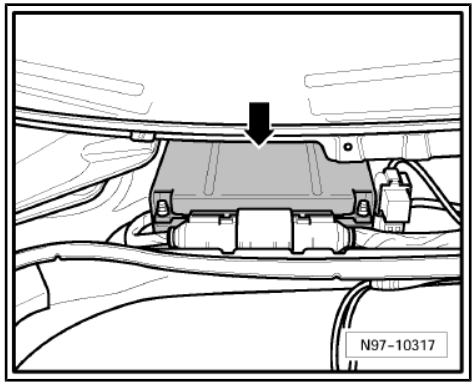


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1.6 Engine control unit -J623-

1.6.1 Fitting location:

under centre of plenum chamber cover -arrow-



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1.6.2 121-pin connector:

A - Engine control unit -J623-

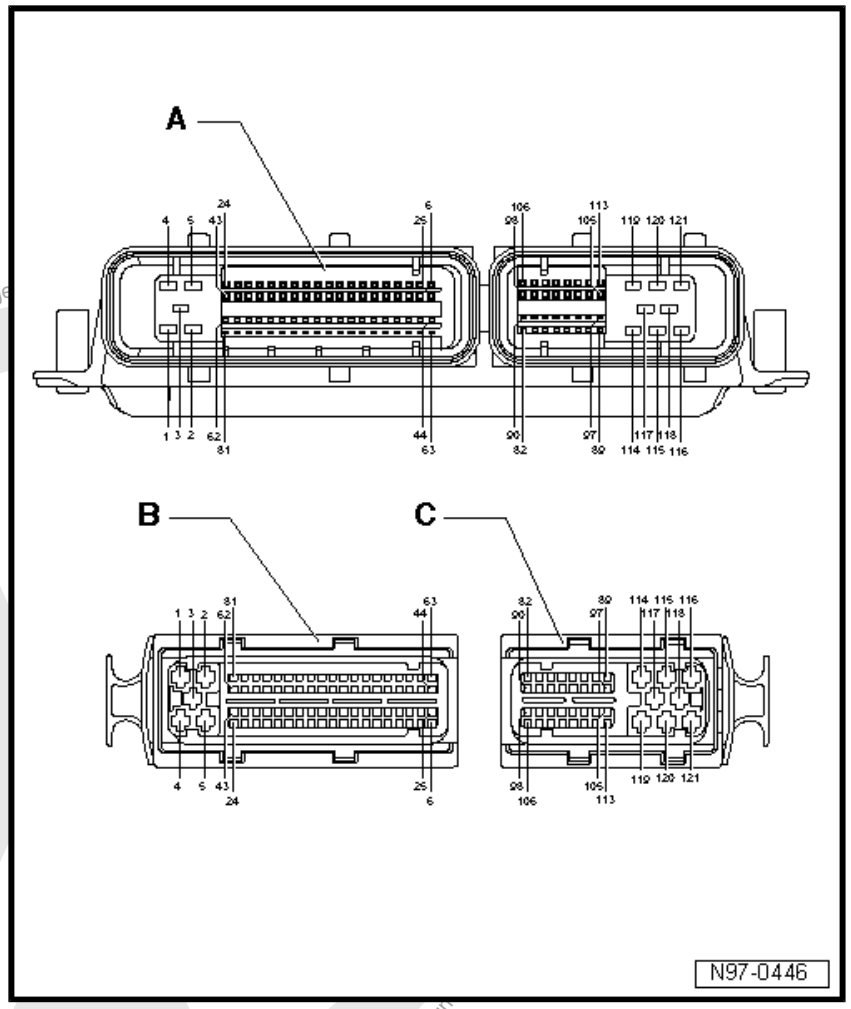
121-pin connector:

B - 81-pin connector -T81-

C - 40-pin connector -T40-

Note

The 121-pin connector -T121- is comprised of a 81-pin connector -T81- and a 40-pin connector -T40- .



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1.6.3 154-pin connector:

A - Engine control unit -J623-

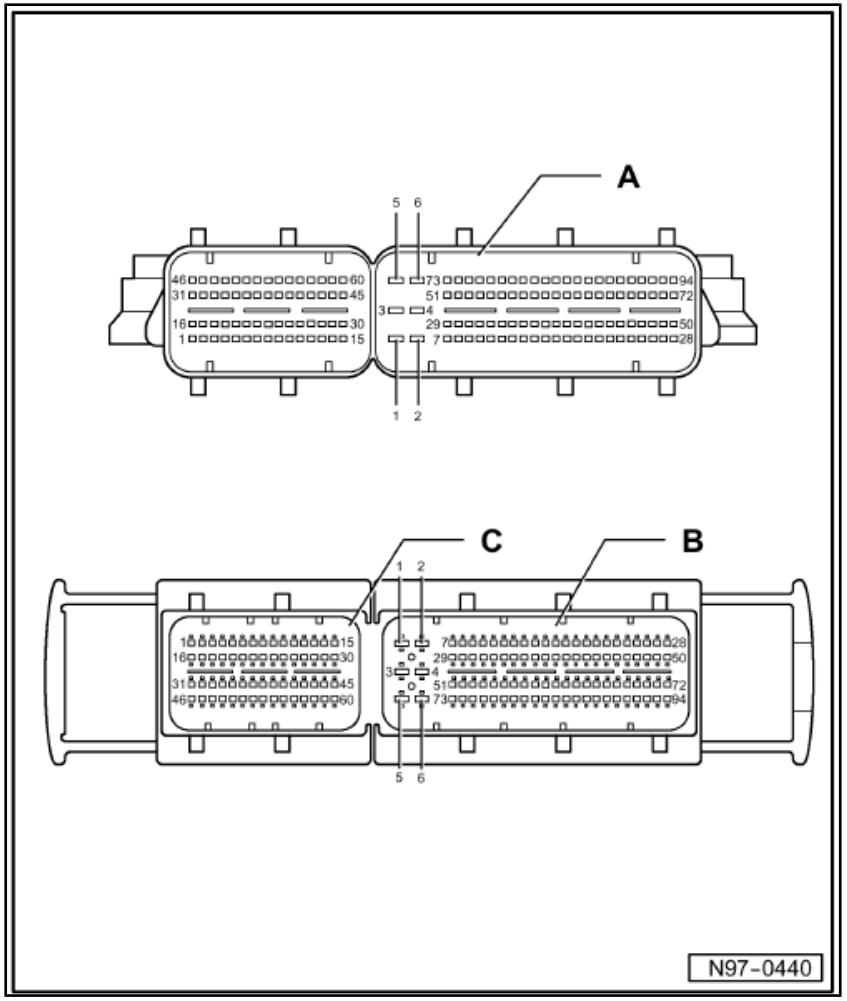
154-pin connector:

B - 94-pin connector -T94-

C - 60-pin connector -T60-

Note

Connector -T154- is comprised of a 94-pin connector -T94- and a 60-pin connector -T60- .

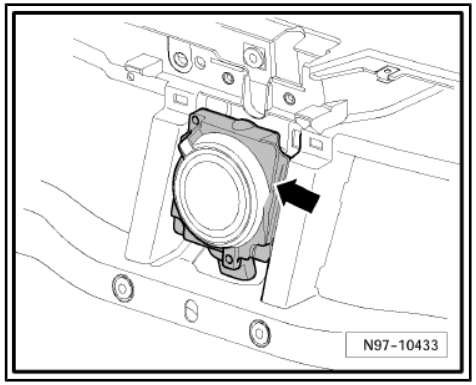


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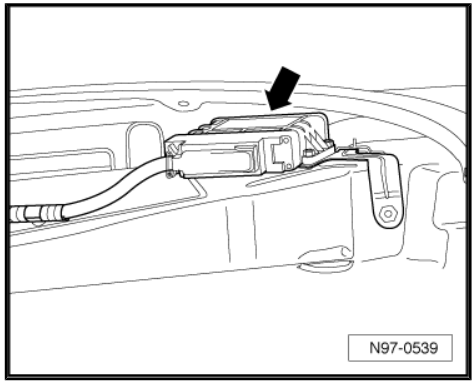
1.7 Adaptive cruise control unit -J428-

1.7.1 Fitting location:

behind radiator in centre -arrow-.



1.8 Voltage stabiliser -J532-



1.8.1 Fitting location:

in front left wheel housing -arrow-.

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1 Control units in interior

1.1 Overview of control units

1 - Airbag control unit -J234-

- Fitting location ⇒ page 4
- 50-pin connector assignment ⇒ applicable to October 2007 ⇒ page 5
- 50-pin connector assignment ⇒ applicable to October 2007
- 75-pin connector assignment ⇒ applicable to October 2007 ⇒ page 6
- 75-pin connector assignment ⇒ applicable to October 2007
- 100-pin connector assignment ⇒ applicable from November 2007 ⇒ page 7
- 100-pin connector assignment ⇒ applicable from November 2007

2 - Convenience system central control unit -J393-

- Fitting location ⇒ page 8
- Connector assignment ⇒ page 9
- Connections ⇒ page 9

3 - Air conditioning system control unit -J301- / Climatronic control unit -J255-

- Air conditioning system control unit -J301- ⇒ page 10
- Connector assignment ⇒ page 10
- Connections ⇒ page 10
- Climatronic control unit -J255- ⇒ page 11
- Connector assignment ⇒ page 11
- Connections ⇒ page 11

4 - Cornering light and headlight range control unit -J745-

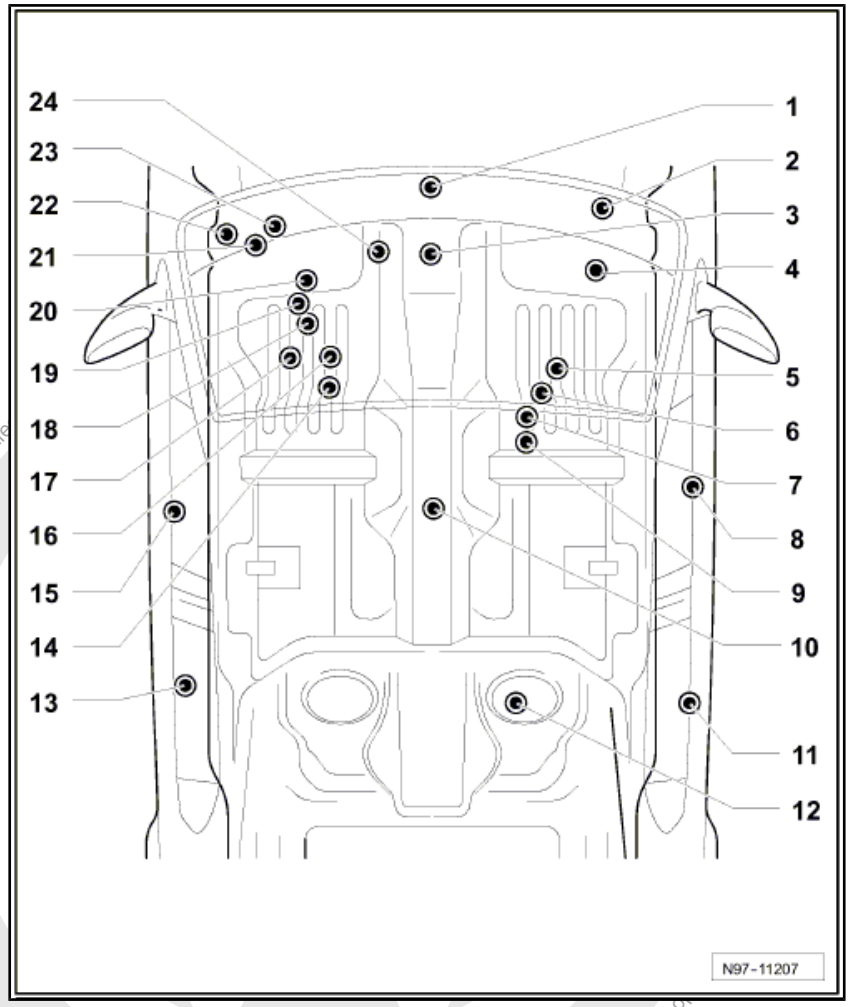
- Fitting location ⇒ page 12

5 - Heated rear seats control unit -J786-

- Fitting location ⇒ page 12

6 - Seat occupied recognition control unit -J706-

- Fitting location ⇒ page 13
- Connector assignment ⇒ page 14
- Connections ⇒ page 14



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7 - Aerial selection control unit -J515-

- Fitting location ⇒ page 15

8 - Front passenger door control unit -J387-

- Fitting location ⇒ page 15
- Connector assignment ⇒ page 17
- Connections ⇒ page 17

9 - Mobile telephone operating electronics control unit -J412- / Telephone controls control unit -J738-

- Fitting location ⇒ page 18
- Connector assignment ⇒ page 19
- Connections ⇒ page 19

10 - Control unit for electromechanical parking brake -J540-

- Fitting location ⇒ page 20
- Connector assignment ⇒ page 21
- Connections ⇒ page 21

11 - Rear right door control unit -J389-

- Fitting location ⇒ page 22
- Connector assignment ⇒ page 23
- Connections ⇒ page 23

12 - Fuel pump control unit -J538-

- Fitting location ⇒ page 24
- Connector assignment ⇒ page 25
- Connections ⇒ page 25

13 - Rear left door control unit -J388-

- Fitting location ⇒ page 22
- Connector assignment ⇒ page 23
- Connections ⇒ page 23

14 - Seat and steering column adjustment control unit with memory -J136-

- Fitting location ⇒ page 26
- Connector assignment ⇒ page 27
- Connections ⇒ page 27

15 - Driver door control unit -J386-

- Fitting location ⇒ page 16
- Connector assignment ⇒ page 17

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- Connections ⇒ page 17

16 - Special vehicle control unit -J608-

- Fitting location ⇒ page 28

17 - Heated front seats control unit -J774-

- Fitting location ⇒ page 28

18 - Steering column electronics control unit -J527-

- Fitting location ⇒ page 29
- Connector assignment ⇒ page 30
- B - Connector cruise control system (CCS) and turn signal ⇒ Item B (page 30)
- C - 20-pin connector -T20d- ⇒ Item C (page 30)
- D - 4-pin connector -T4- ⇒ page 31
- E - Connector for wiper and multifunction display ⇒ Item E (page 31)
- F - Connector for steering angle sensor ⇒ page 32
- G - Connector for airbag return spring/multifunction steering wheel ⇒ page 32

19 - Dash panel insert -K- /
Control unit in dash panel insert -J285-

- 36-pin connector -T36- ⇒ page 33 ⇒ applicable to October 2008
- 32-pin connector -T32c- ⇒ page 35 ⇒ applicable from November 2008

20 - Electronic steering column lock control unit -J764-

- Fitting location ⇒ page 37

21 - Onboard supply control unit -J519-

- Fitting location ⇒ page 37
- A - 11-pin connector -T11- ⇒ page 38
- B - 12-pin connector -T12i- ⇒ Item B (page 38)
- C - 12-pin connector -T12k- ⇒ Item C (page 38)
- D - 11-pin connector -T11a- ⇒ Item D (page 39)
- E - 16-pin connector -T16g- ⇒ page 40
- F- 8-pin connector -T8t- ⇒ page 40
- G - 12-pin connector -T12m- - ⇒ page 41
- H- 12-pin connector -T12- ⇒ page 41
- I - 2-pin connector -T2cp- ⇒ page 42
- J - 6-pin connector -T6ap- ⇒ Item J (page 42)
- K - 10-pin connector -T10s- ⇒ page 42
- L - 2-pin connector -T2cq- ⇒ page 42

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22 - Driving school mode relay -J746- / Taxi alarm remote control control unit -J601-

- Fitting location ⇒ page 43
- Connections ⇒ page 43

23 - Park assist steering control unit -J791- / Parking aid control unit -J446-

- Fitting location ⇒ ⇒ page 44

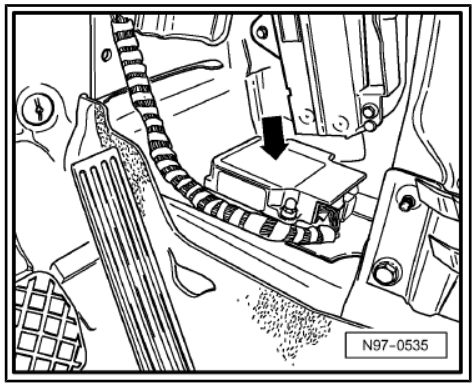
24 - Data bus diagnostic interface -J533-

- Fitting location ⇒ page 44
- Connector assignment ⇒ page 45
- Connections ⇒ page 45

1.2 Airbag control unit -J234-

1.2.1 Fitting location:

under centre console at front -arrow-



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1.2.2 50-pin connector:

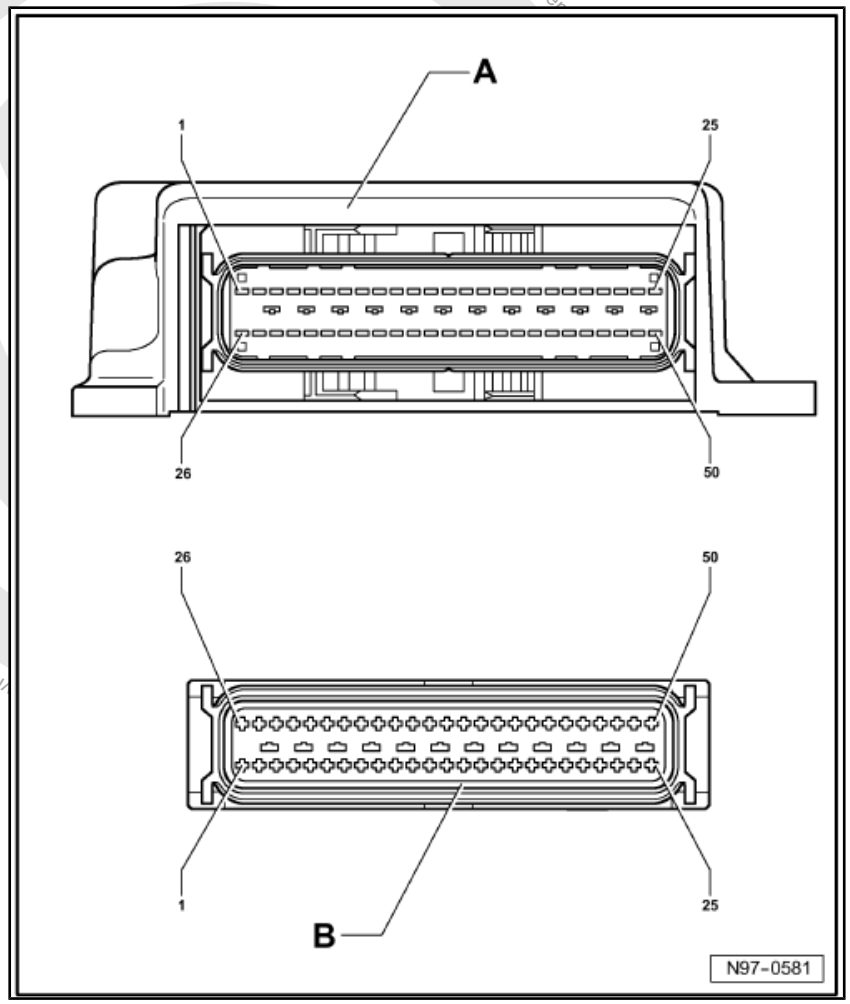
A - Airbag control unit -J234-

Pin connector:

B - 50-pin connector -T50-

Note

applicable to October 2007



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1.2.3 75-pin connector:

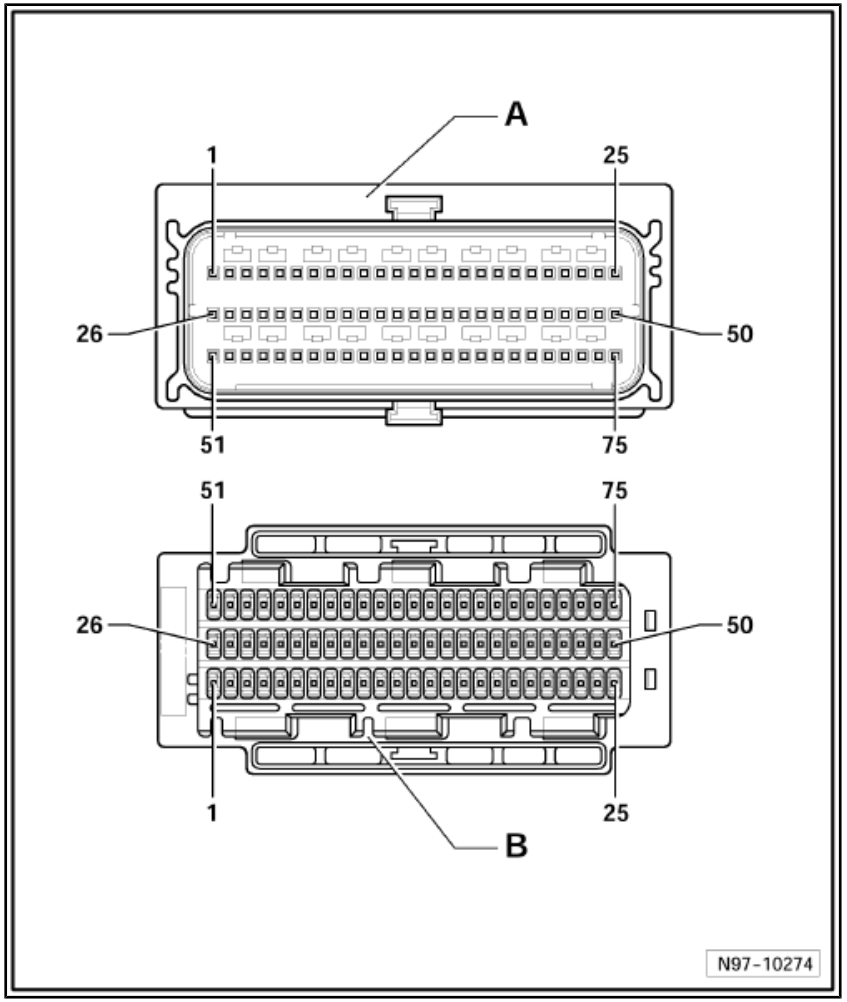
A - Airbag control unit -J234-

Pin connector:

B - 75-pin connector -T75-

Note

applicable to October 2007



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1.2.4 100-pin connector:

A - Airbag control unit -J234-

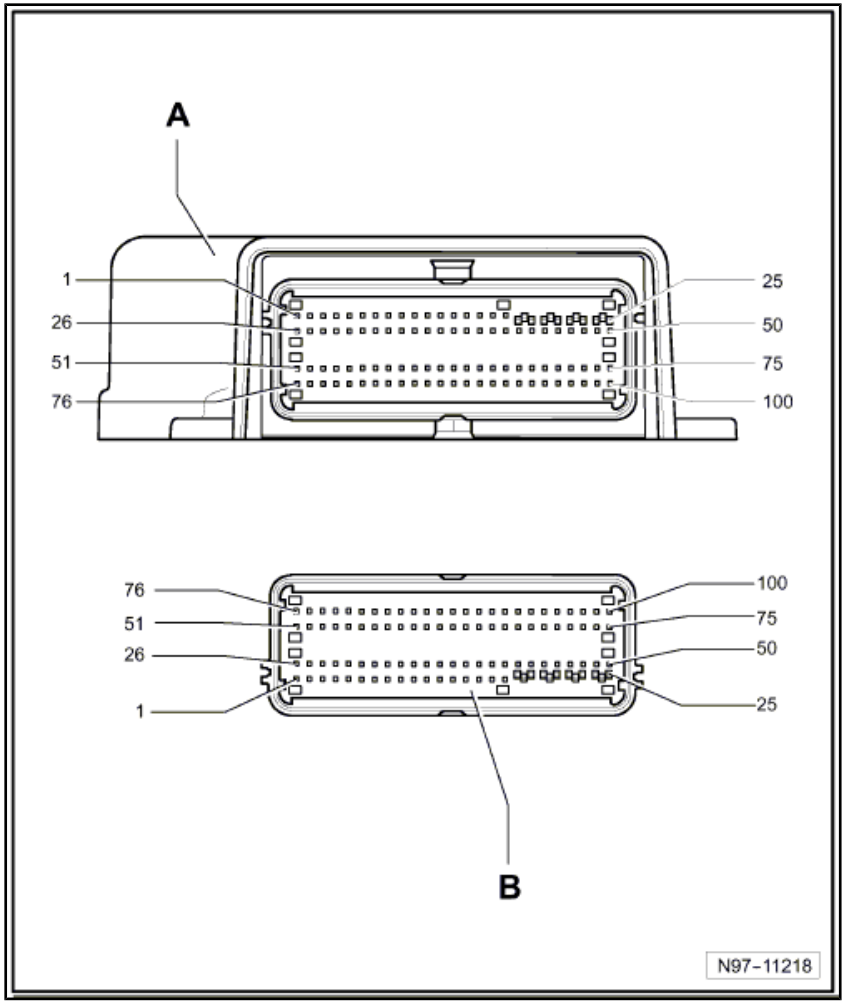
Pin connector:

B - 100-pin connector -T100-

B - 100-pin connector -T100a-

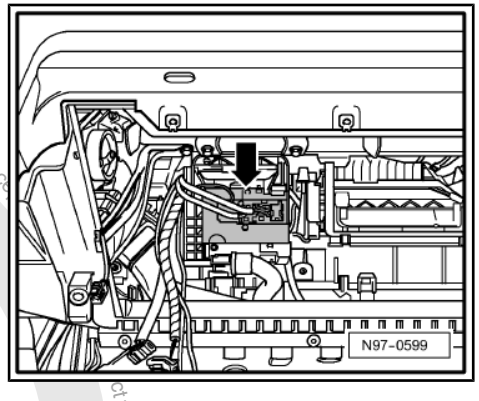
Note

applicable from November 2007



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1.3 Convenience system central control unit -J393-



1.3.1 Fitting location:

under dash panel behind glove compartment -arrow-

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1.3.2 Connector assignment:

A - Convenience system central control unit -J393-

Pin connector:

B - 6-pin connector -T6an-

C - 18-pin connector -T18a-

D - 8-pin connector -T8r-

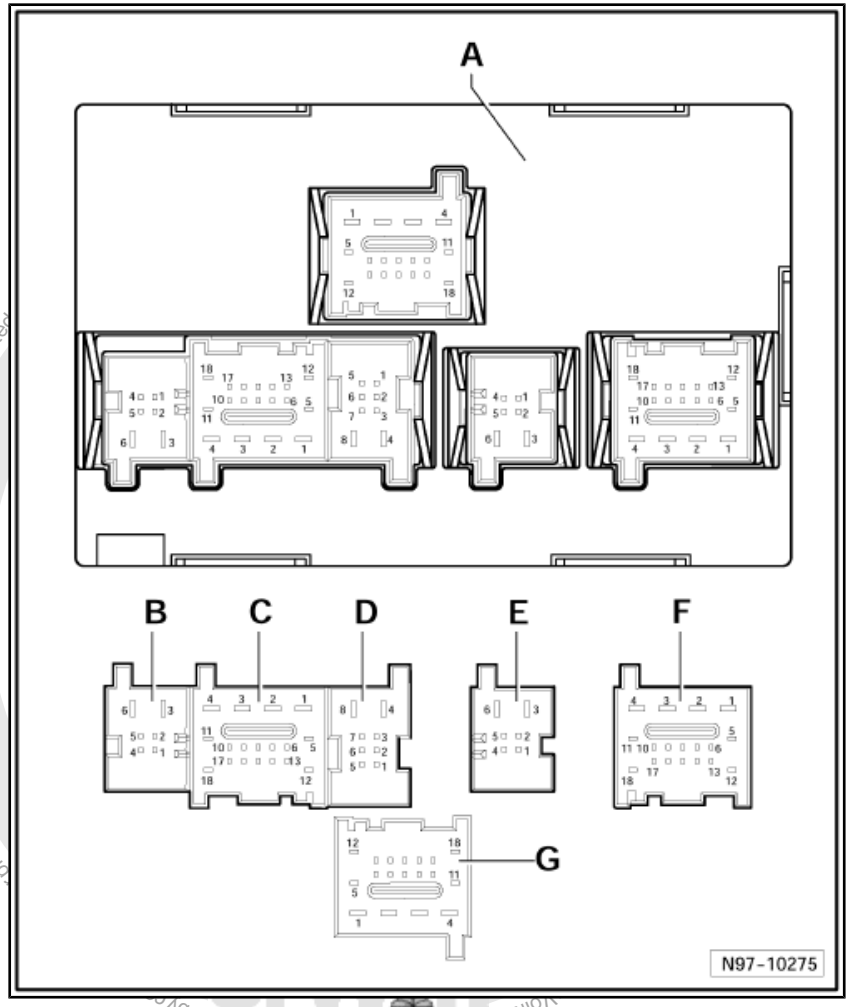
E - 6-pin connector -T6ao-

F - 18-pin connector -T18b-

G - 18-pin connector -T18c-

Note

18-pin connector -T18c- Discontinued on models with no entry and start authorisation



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1.4 Air conditioning system control unit -J301-

1.4.1 Connector assignment:

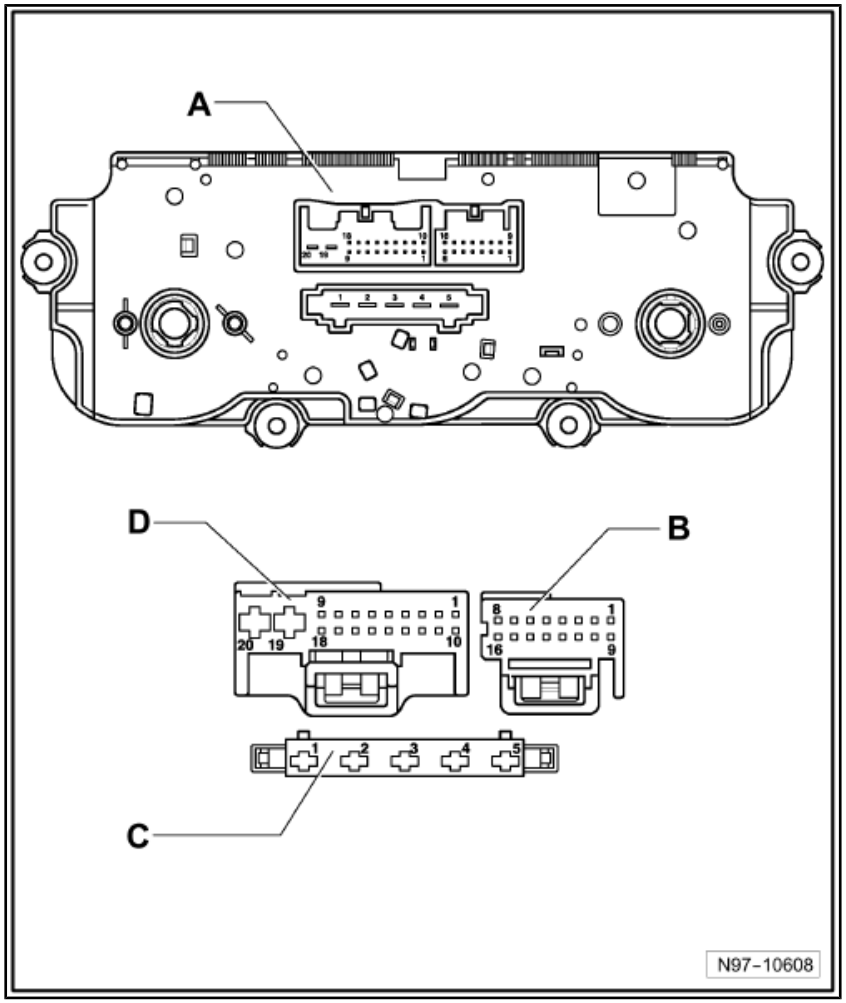
A - Air conditioning system control unit -J301-

Connector:

B - 16-pin connector -T16j-

C - 5-pin connector -T5r-

D - 20-pin connector -T20b-



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1.5 Climatronic control unit -J255-

1.5.1 Connector assignment:

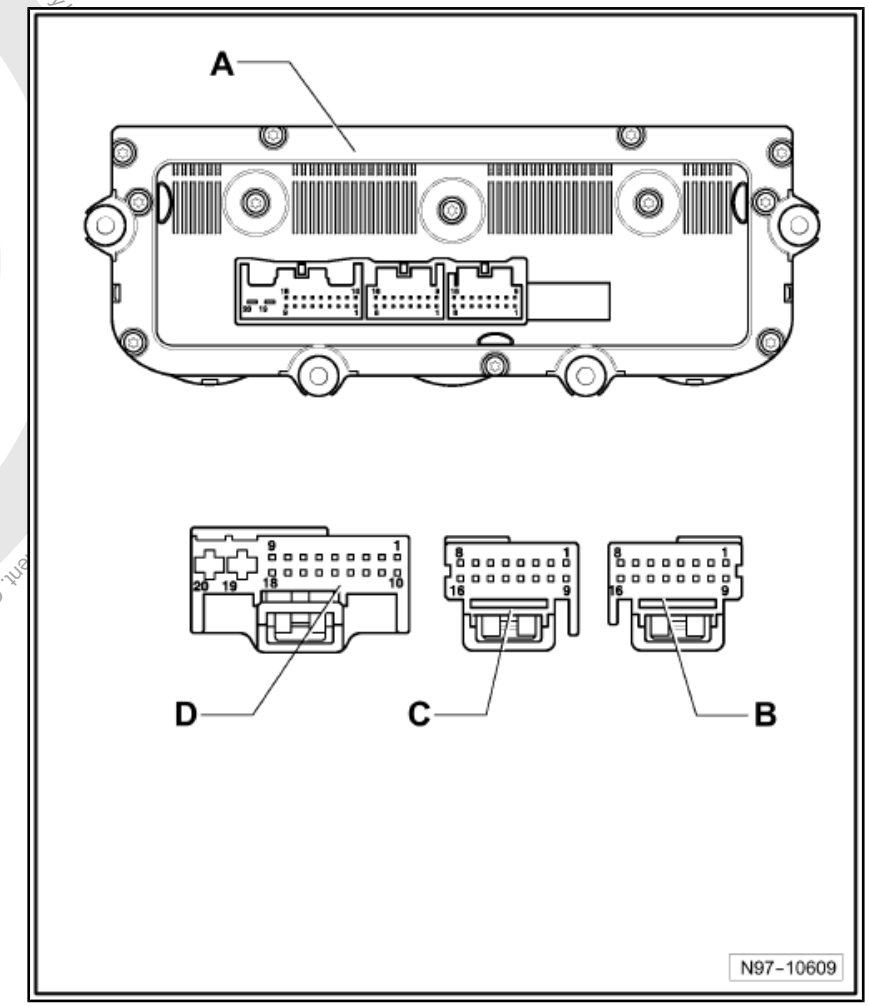
A - Climatronic control unit -J255-

Connector:

B - 16-pin connector -T16h-

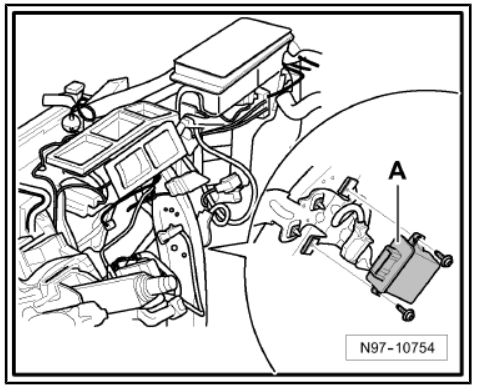
C - 16-pin connector -T16i-

D - 20-pin connector -T20c-



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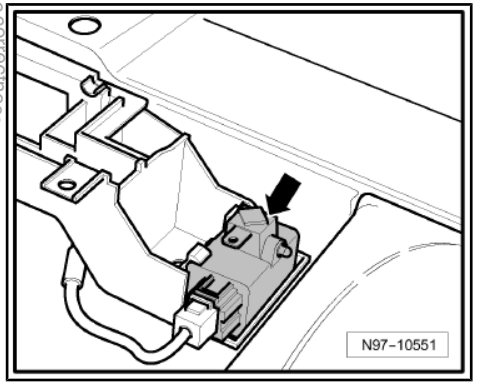
1.6 Cornering light and headlight range control unit -J745-



1.6.1 Fitting location:

behind glove compartment on left -arrow A-

1.7 Heated rear seats control unit -J786-

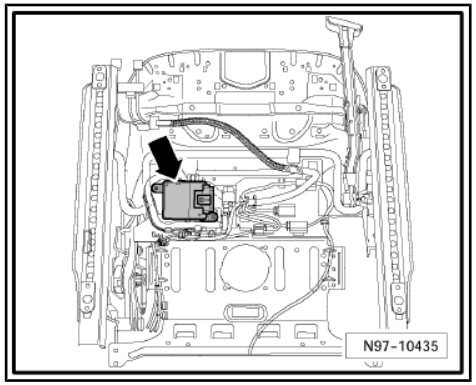


1.7.1 Fitting location:

under seat on front right -arrow-.

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1.8 Seat occupied recognition control unit -J706-



1.8.1 Fitting location:

on front passenger seat frame -arrow-

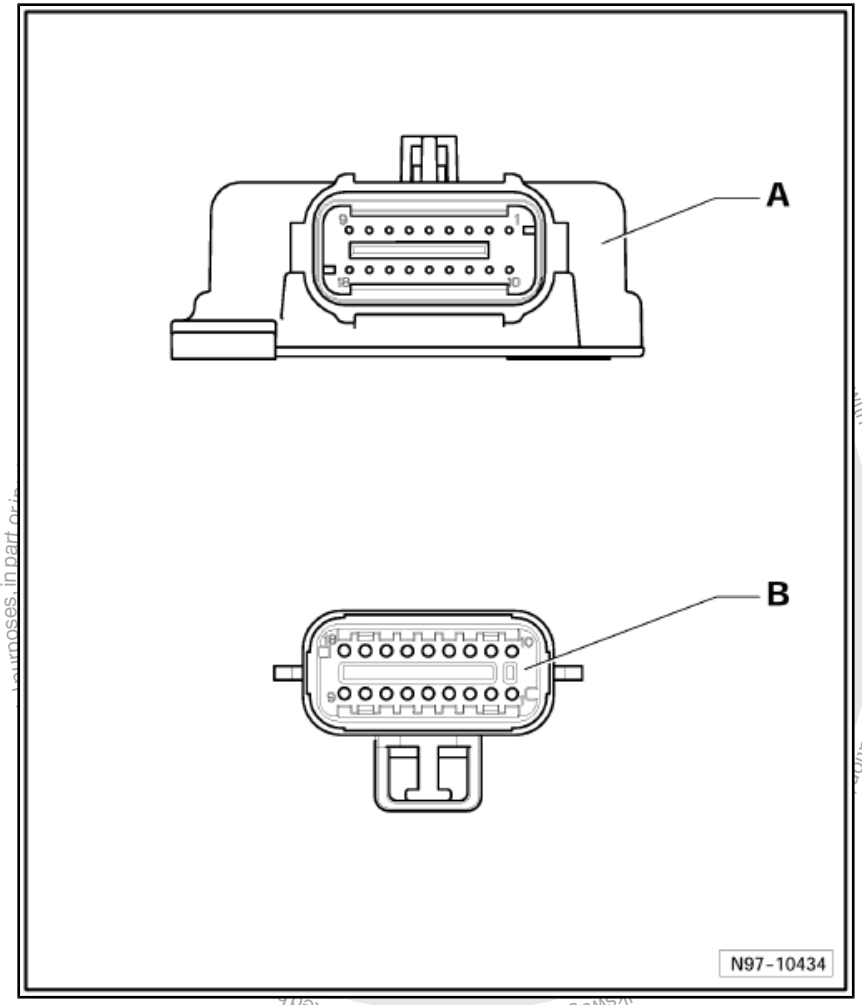
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1.8.2 Connector assignment:

A - Seat occupied recognition control unit -J706-

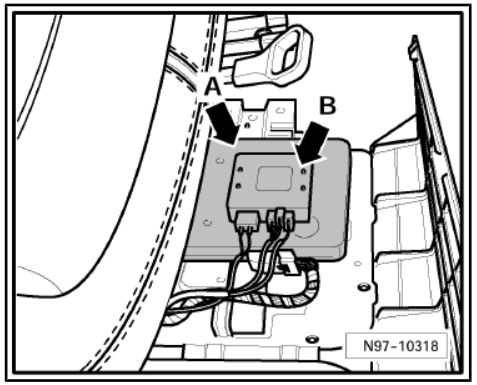
Connector:

B - 18-pin connector -T18f-



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1.9 Aerial selection control unit -J515-



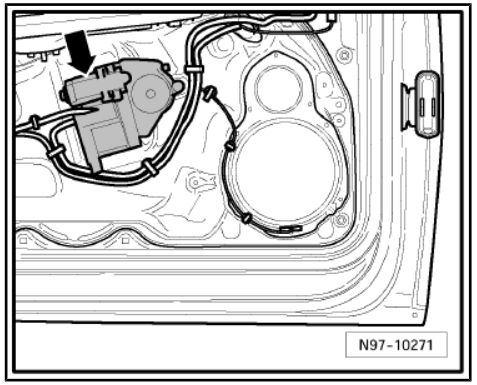
1.9.1 Fitting location:

under seat on front right -arrow B-.

Note

The aerial selection control unit -J515- is installed from May 2006 for Japanese markets only. Discontinued for all other countries.

1.10 Front passenger door control unit -J387-



1.10.1 Fitting location:

on inside of front passenger door -arrow-

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1.11 Driver door control unit -J386-

1.11.1 Fitting location:

on inside of driver's door -arrow-

Note:

The illustration shows the driver side. The front passenger side is similar.

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1.11.2 Connector assignment:

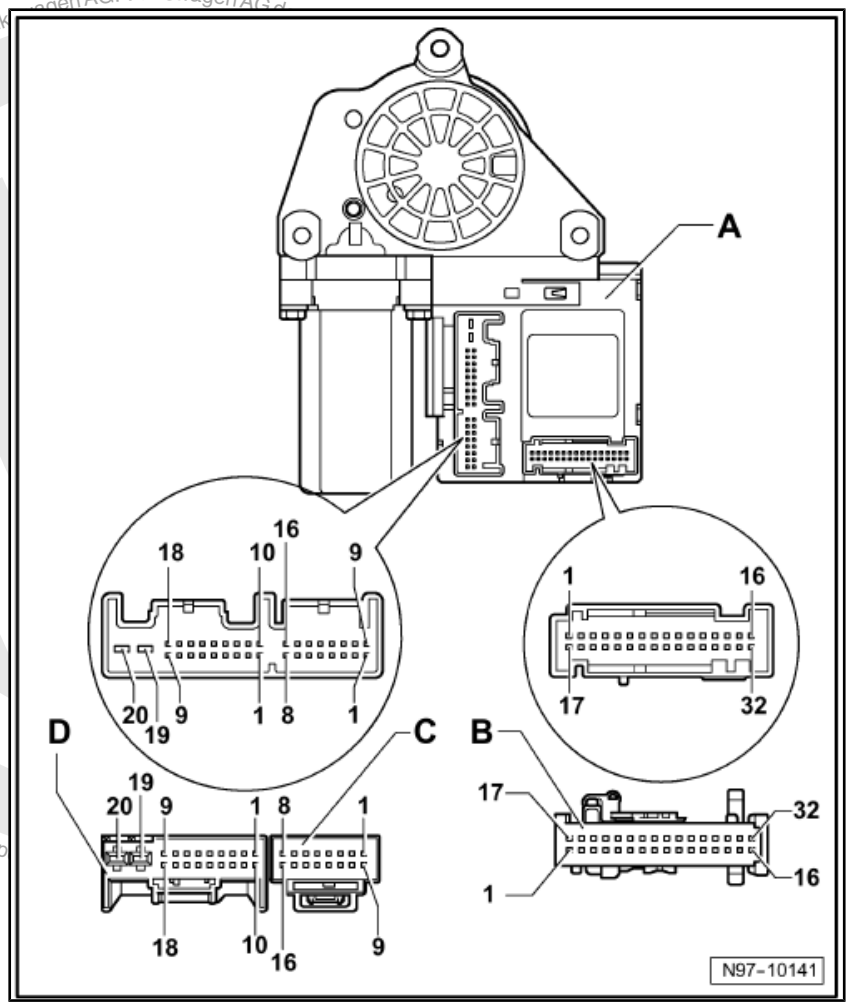
A - Front passenger door control unit -J387- , Driver door control unit -J386-

Connector:

B - 32-pin connector -T32a- , - 32-pin connector -T32b-

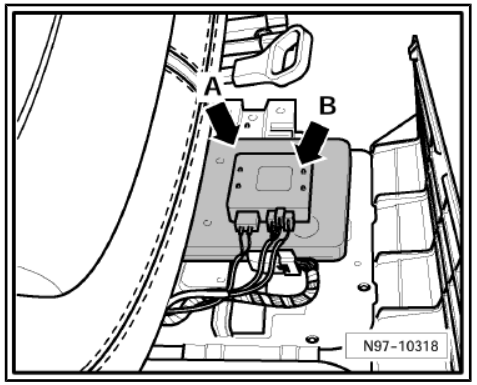
C - 16-pin connector -T16a- -, - 16-pin connector -T16b-

D - 20-pin connector -T20g- , - 20-pin connector -T20h-



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1.12 Mobile telephone operating electronics control unit -J412- / Telephone controls control unit -J738-



1.12.1 Fitting location:

under seat on front right -arrow A-.

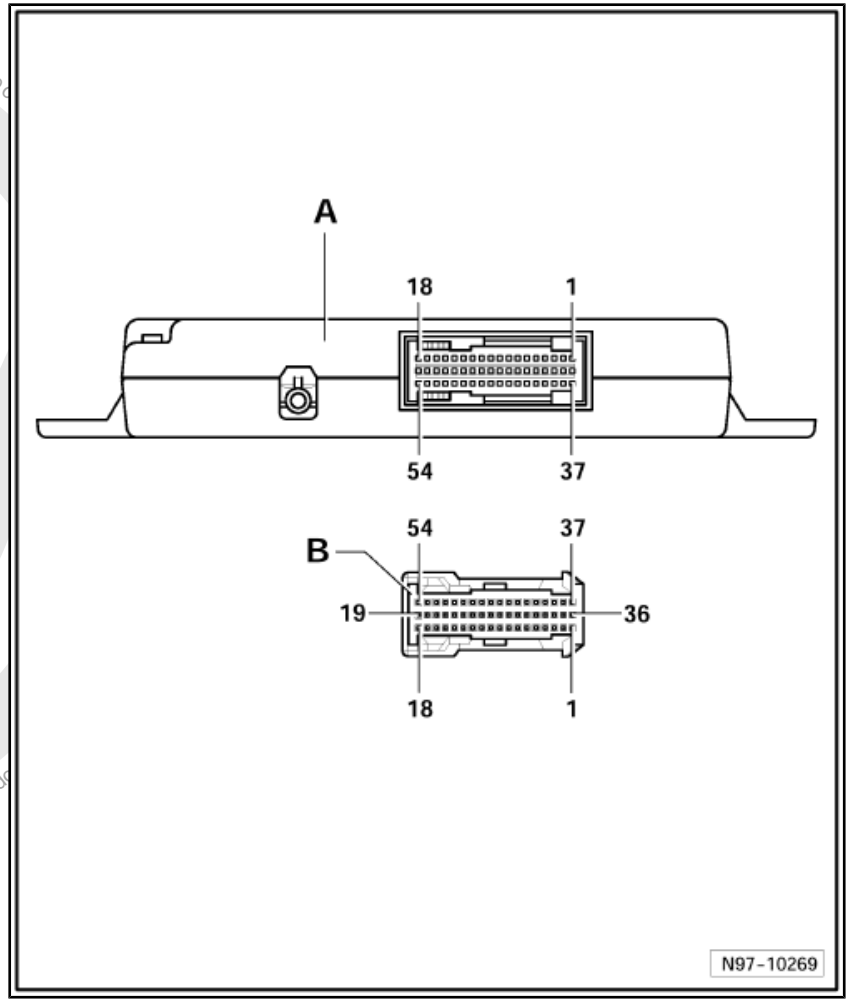
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1.12.2 Connector assignment:

A - Mobile telephone operating electronics control unit -J412-

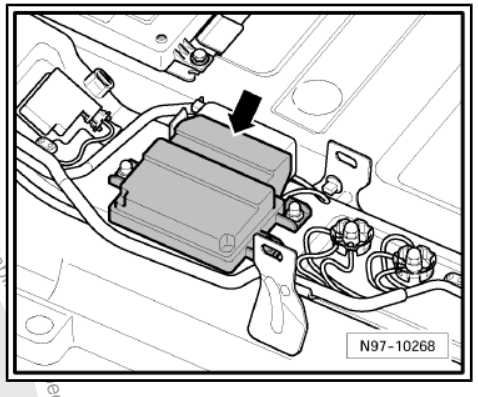
Connector:

B - 54-pin connector -T54-



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1.13 Control unit for electromechanical parking brake -J540-



1.13.1 Fitting location:

on rear of centre tunnel -arrow-

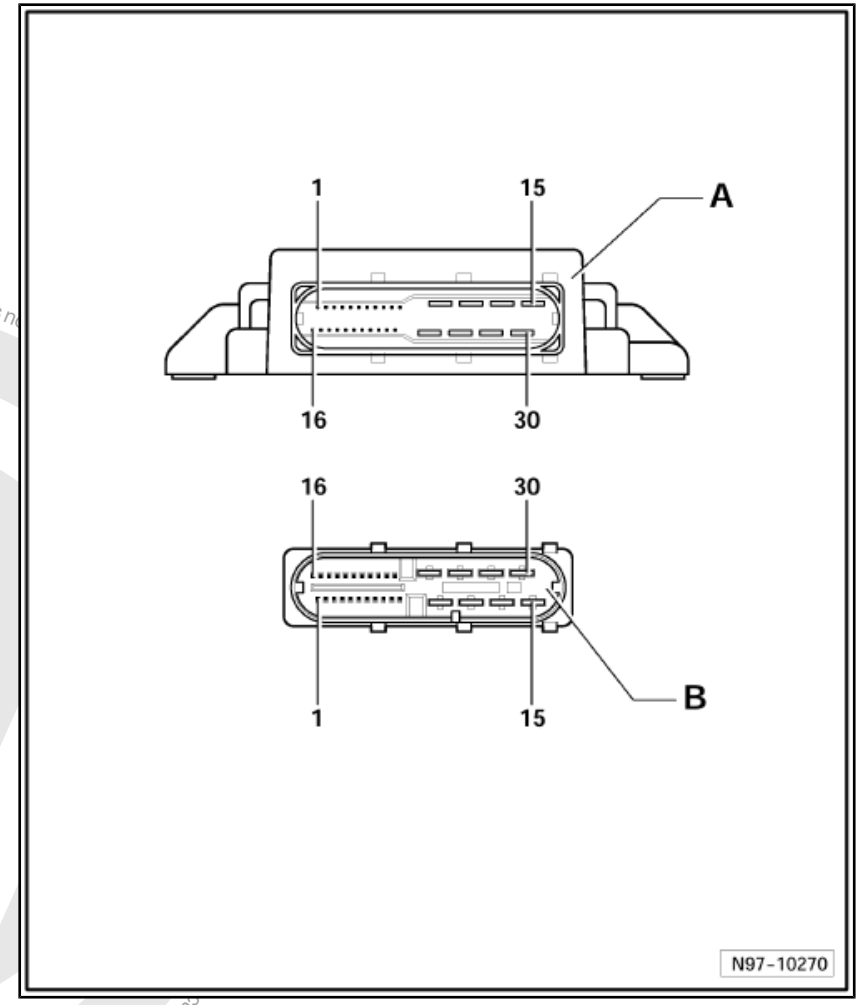
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1.13.2 Connector assignment:

A - Control unit for electromechanical parking brake -J540-

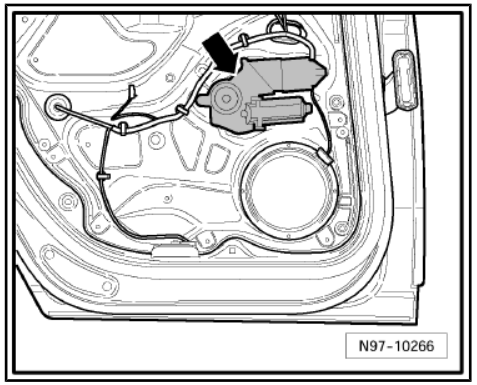
Connector:

B - 30-pin connector -T30-



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1.14 Rear right door control unit -J389-



1.14.1 Fitting location:

on inside of rear door on front passenger side -arrow-

1.15 Rear left door control unit -J388-

1.15.1 Fitting location:

on inside of rear door on driver's side -arrow-

Note:

The illustration shows the driver side. The front passenger side is similar.

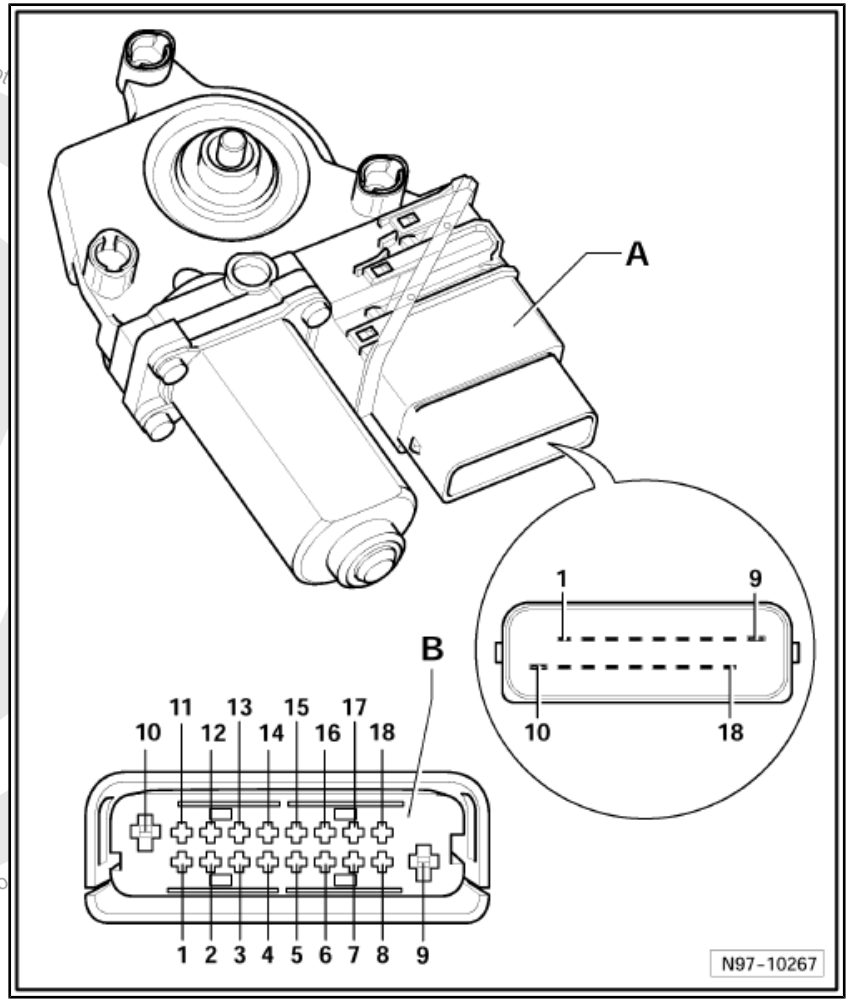
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1.15.2 Connector assignment:

A - Rear right door control unit -J389- , Rear left door control unit -J388-

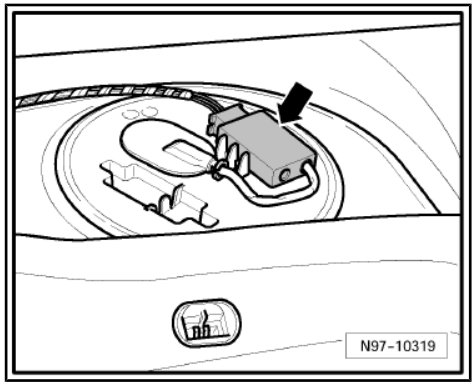
Connector:

B - 18-pin connector -T18-



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1.16 Fuel pump control unit -J538-



1.16.1 Fitting location:

under rear right seat, on fuel delivery unit -arrow-

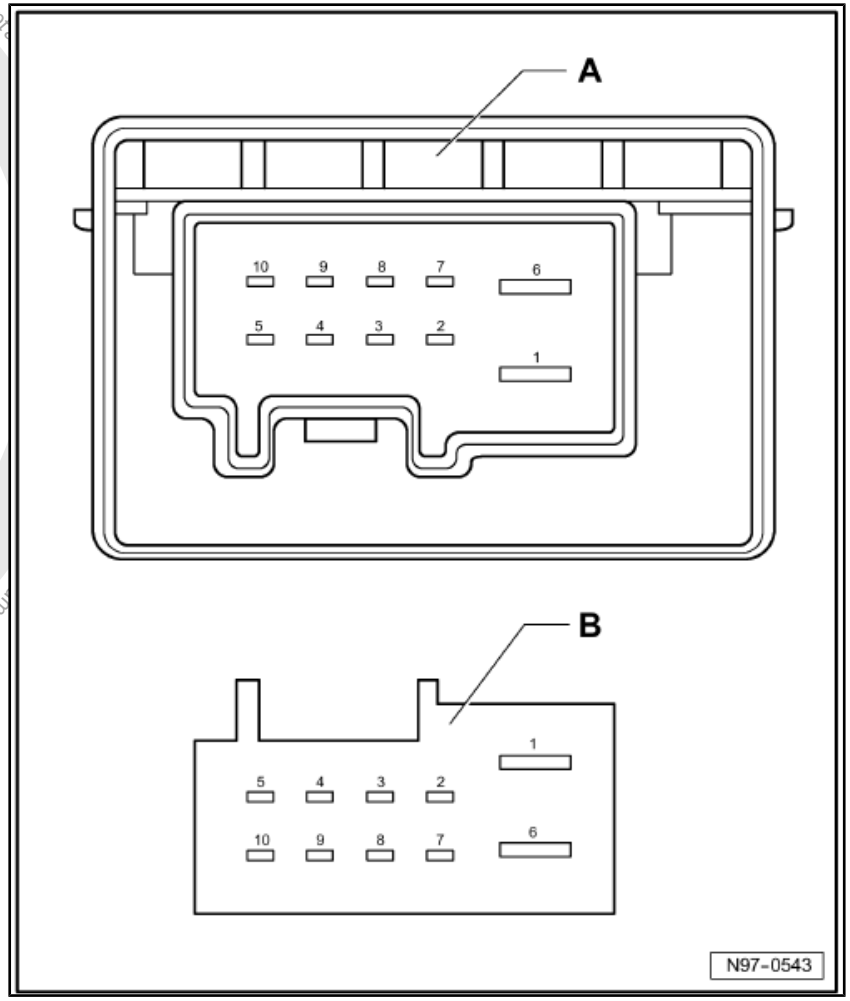
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1.16.2 Connector assignment:

A - Fuel pump control unit -J538-

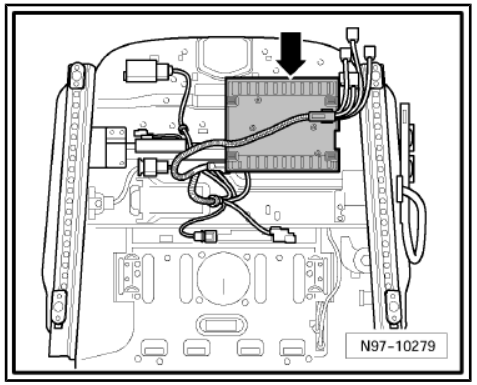
Connector:

B - 10-pin connector -T10p-



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1.17 Seat and steering column adjustment control unit with memory -J136-



1.17.1 Fitting location:

under driver's seat -arrow-.

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1.17.2 Connector assignment:

A - Seat and steering column adjustment control unit with memory -J136-

Pin connector:

B - 26-pin connector -T26b-

C - 6-pin connector -T6bj-

D - 6-pin connector -T6bq-

E - 6-pin connector -T6bi-

F - 6-pin connector -T6bh-

G - 6-pin connector -T6bp-

H - 4-pin connector -T4br-

I - 2-pin connector -T2- , Not assigned

J - 2-pin connector -T2- , Not assigned

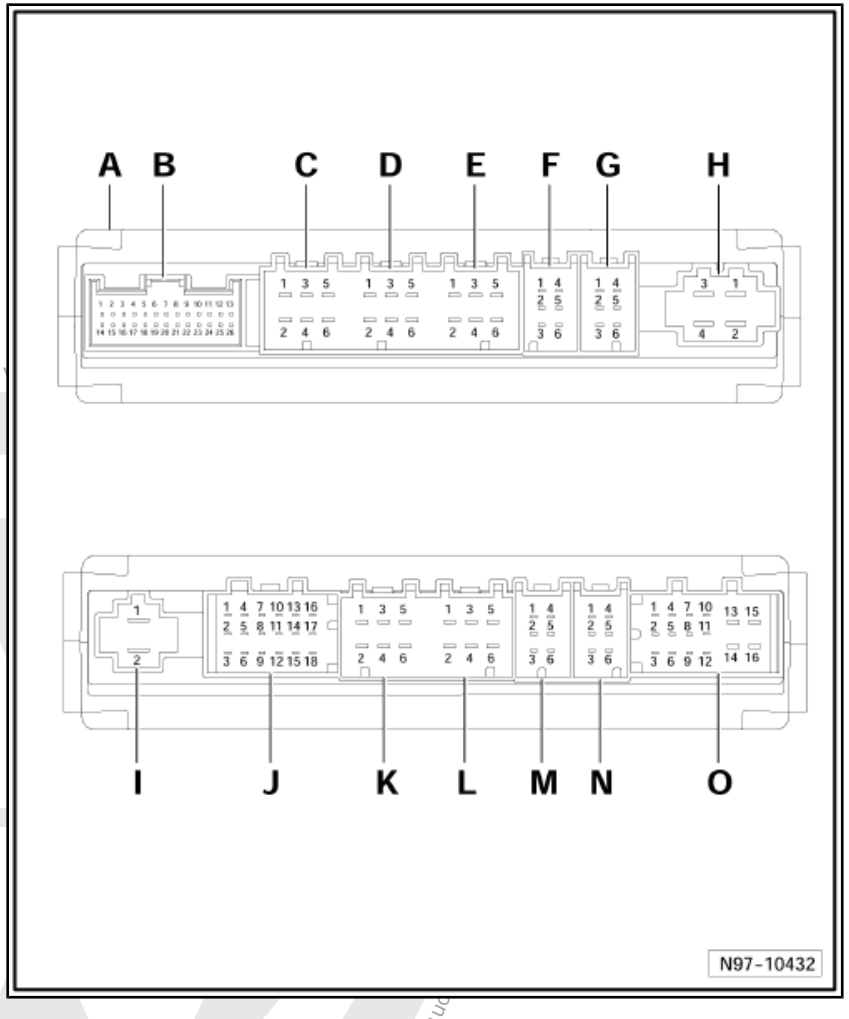
K - 6-pin connector -T6- , Not assigned

L - 6-pin connector -T6- , Not assigned

M - 6-pin connector -T6- , Not assigned

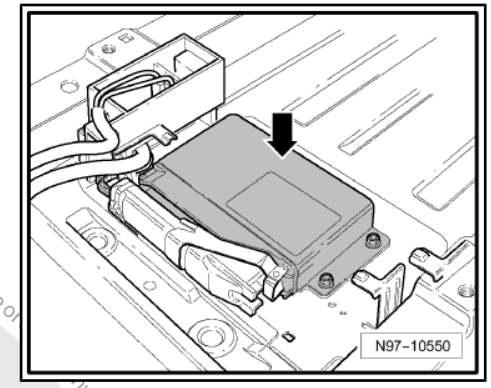
N - 6-pin connector -T6- , Not assigned

O - 16-pin connector -T16- , Not assigned



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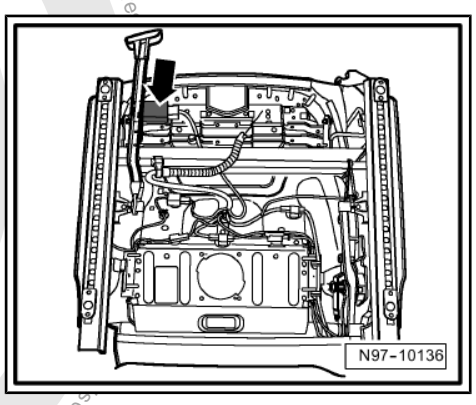
1.18 Special vehicle control unit -J608-



1.18.1 Fitting location:

under driver's seat -arrow-.

1.19 Heated front seats control unit -J774-

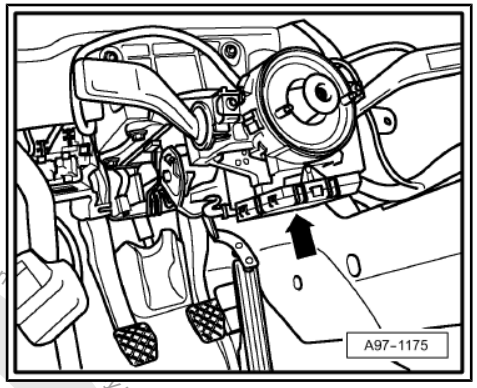


1.19.1 Fitting location:

on driver's seat frame -arrow-

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1.20 Steering column electronics control unit -J527-



1.20.1 Fitting location:

under steering column, near steering column switch -arrow-

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1.20.2 Connector assignment:

A - Steering column electronics control unit -J527-

B - Cruise control system (CCS) and turn signal connector:

1 - Turn signal earth

2 - Turn signal

3 - Not assigned

4 - Main beam/flasher

5 - Not assigned

6 - Not assigned

7 - Voltage for CCS off

8 - CCS master switch

9 - Res (+), Set (-)

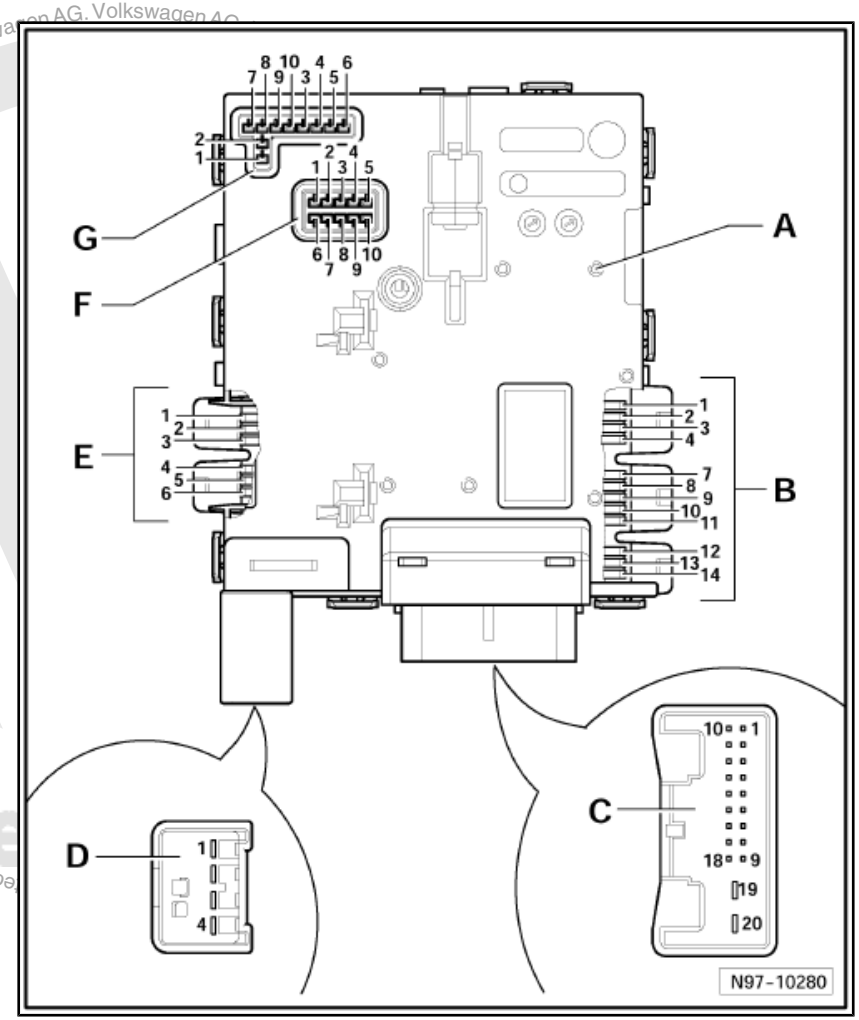
10 - CCS off

11 - Earth for CCS

12 - Earth for automatic distance control

13 - Adaptive cruise control button

14 - Set switch



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C - 20-pin connector -T20d-

1 - Ignition key withdrawal lock

2 - Immobiliser reading unit

3 - Convenience CAN bus, low

4 - Convenience CAN bus, high

5 - Powertrain CAN, screening

6 - Powertrain CAN, low

7 - Powertrain CAN, high

8 - Earth

9 - Power supply to control unit for steering column electronics

10 - Terminal 50

11 - Terminal P

12 - Terminal S

13 - Terminal 15

14 - Not assigned

15 - Not assigned

16 - Cruise control system, out

17 - Earth

18 - Power supply to control unit for steering column electronics (terminal 30)

19 - Not assigned

20 - Not assigned

D - 4-pin connector -T4-

1 - Airbag 1 -

2 - Airbag 1 +

3 - Airbag 2 +

4 - Airbag 2 -

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E - Connector for wiper and multifunction display:

1 - Earth for intermittent windscreen wiper switch

2 - Wiper signal

3 - Wash/wipe signal

4 - Potentiometer for intermittent stages

5 - Multifunction display signal

6 - Earth for multifunction display and interval

F - Steering angle sensor connector:

1 - Photoelectric beam 5

2 - Photoelectric beam 3

3 - Photoelectric beam 1

4 - 12 volt voltage supply

5 - 5 volt voltage supply

6 - Photoelectric beam 6

7 - Photoelectric beam 4

8 - Photoelectric beam 2

9 - Earth

10 - Photoelectric beam 7

G - Connector for airbag return spring/multifunction steering wheel:

1 - Not assigned

2 - Not assigned

3 - Airbag 1 (+)

4 - Airbag 1 (-)

5 - Airbag 2 (+)

6 - Airbag 2 (-)

7 - Earth for return spring, multifunction steering wheel and horn

8 - Horn or CCS off (with multifunction steering wheel)

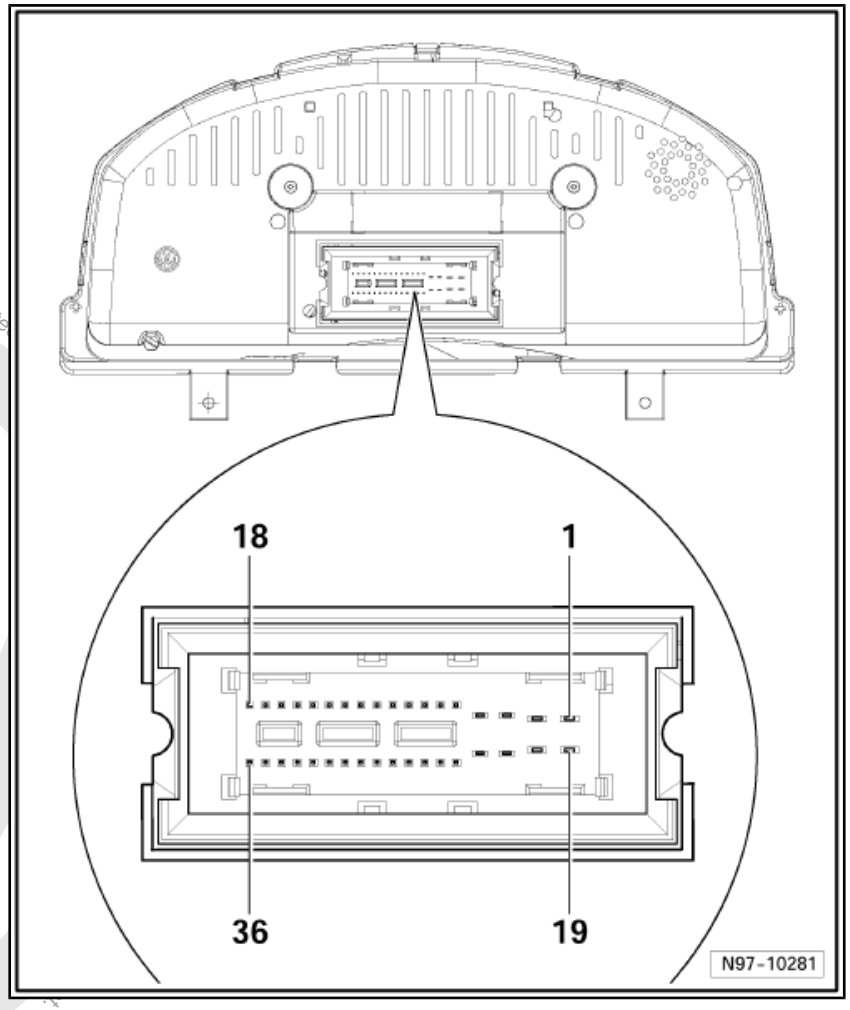
9 - LIN bus

10 - Power supply for multifunction steering wheel (terminal 15)

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1.21 Dash panel insert -K- / Control unit in dash panel insert -J285-

1.21.1 36-pin connector -T36- :



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1 - Terminal 15 voltage supply
2 - Terminal 30 voltage supply
3 - Not assigned
4 - Not assigned
5 - Brake fluid level warning lamp
6 - Warning lamp for electric parking brake and handbrake
7 - Not assigned
8 - Not assigned
9 - Not assigned
10 - Not assigned
11 - Not assigned
12 - Diagnostic interface for dash panel CAN data bus, low
13 - Diagnostic interface for dash panel CAN data bus, high
14 - Dash panel CAN screening
15 - Dash panel CAN wake-up wire
16 - Fuel gauge sender (full), only with all-wheel drive
17 - Fuel gauge sender (full)
18 - Fuel gauge sender (empty)
19 - Terminal 31
20 - Not assigned
21 - Not assigned
22 - Front left brake pad wear sender
23 - Fuel gauge sender (empty), only with all-wheel drive
24 - Not assigned
25 - Oil pressure warning lamp
26 - Oil level and oil temperature sender
27 - Not assigned
28 - Speed signal, sliding sunroof adjustment control unit output, control unit with display for radio and navigation system
29 - Not assigned
30 - Not assigned
31 - Not assigned
32 - Not assigned
33 - Terminal 31, sensor earth

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Note

applicable to October 2008

1.21.2 32-pin connector -T32c-

1 - Fuel gauge sender (full)

2 - Fuel gauge sender (empty)

3 - Fuel gauge sender (full), only with all-wheel drive

4 - Fuel gauge sender (empty), only with all-wheel drive

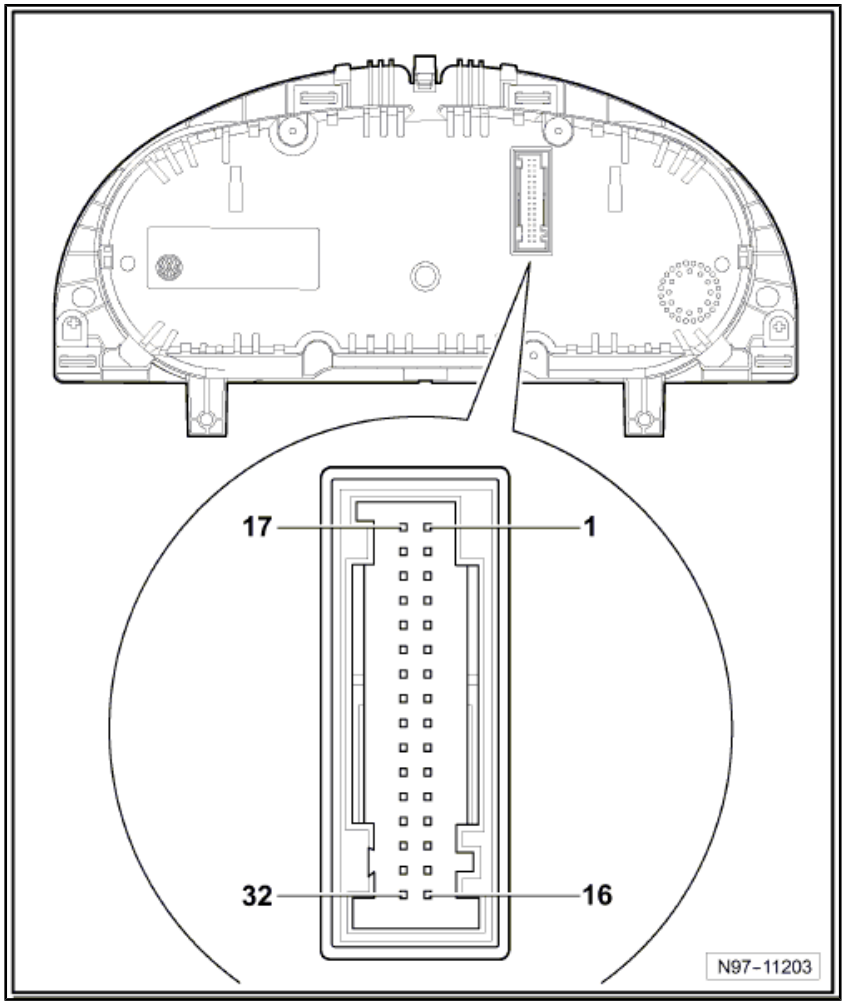
5 - Not assigned

6 - Not assigned

7 - Not assigned

8 - Not assigned

9 - Speed signal, sliding sunroof adjustment control unit output, control unit with display for radio and



navigation system

10 - Not assigned

11 - Oil level and oil temperature sender

12 - Not assigned

13 - Not assigned

14 - Not assigned

15 - Front left brake pad wear sender

16 - Terminal 31

17 - Washer fluid level warning lamp

18 - Coolant temperature and coolant shortage warning lamp

19 - Ambient temperature sensor

20 - Terminal 31, sensor earth

21 - Not assigned

22 - Not assigned

23 - Not assigned

24 - Not assigned

25 - Warning lamp for electric parking brake and handbrake

26 - Brake fluid level warning lamp

27 - Oil pressure warning lamp

28 - Diagnostic interface for dash panel CAN data bus, high

29 - Diagnostic interface for dash panel CAN data bus, low

30 - Not assigned

31 - Terminal 15 voltage supply

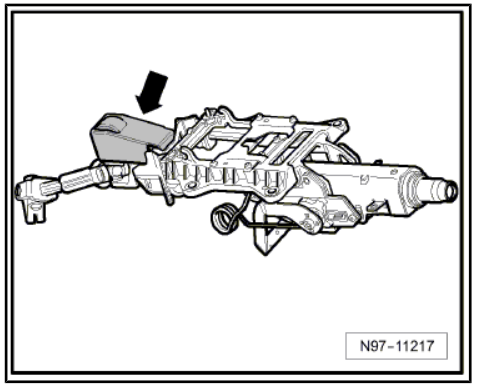
32 - Terminal 30 voltage supply

Note

applicable from November 2008

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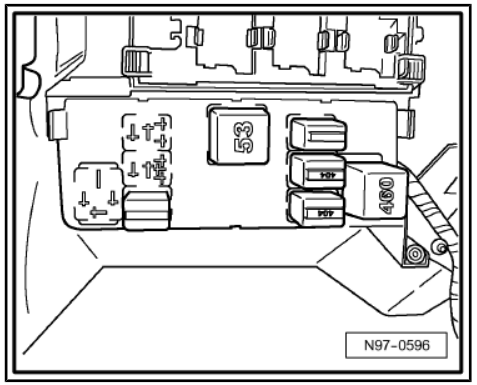
1.22 Electronic steering column lock control unit -J764-



1.22.1 Fitting location:

on steering column -arrow-

1.23 Onboard supply control unit -J519-



1.23.1 Fitting location:

under dash panel on driver side, below relay carrier.

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1.23.2 Connector assignment:

A - 11-pin connector -T11-

1 - Terminal 30

2 - Right dipped beam bulb

3 - Right main beam bulb

4 - Right fog light bulb

5 - Right gas discharge (xenon) bulb

6 - Front right turn signal bulb

7 - Left side light bulb

8 - Not assigned

9 - Earth

10 - Electric fuel pump 2 relay

11 - Terminal 50 voltage supply relay

B - 12-pin connector -T12i-

1 - Right reversing light bulb

2 - Heated windscreen relay

3 - Not assigned

4 - Rear left fog light bulb

5 - Right brake and tail light bulb

6 - Not assigned

7 - Front left entry light, front right entry light

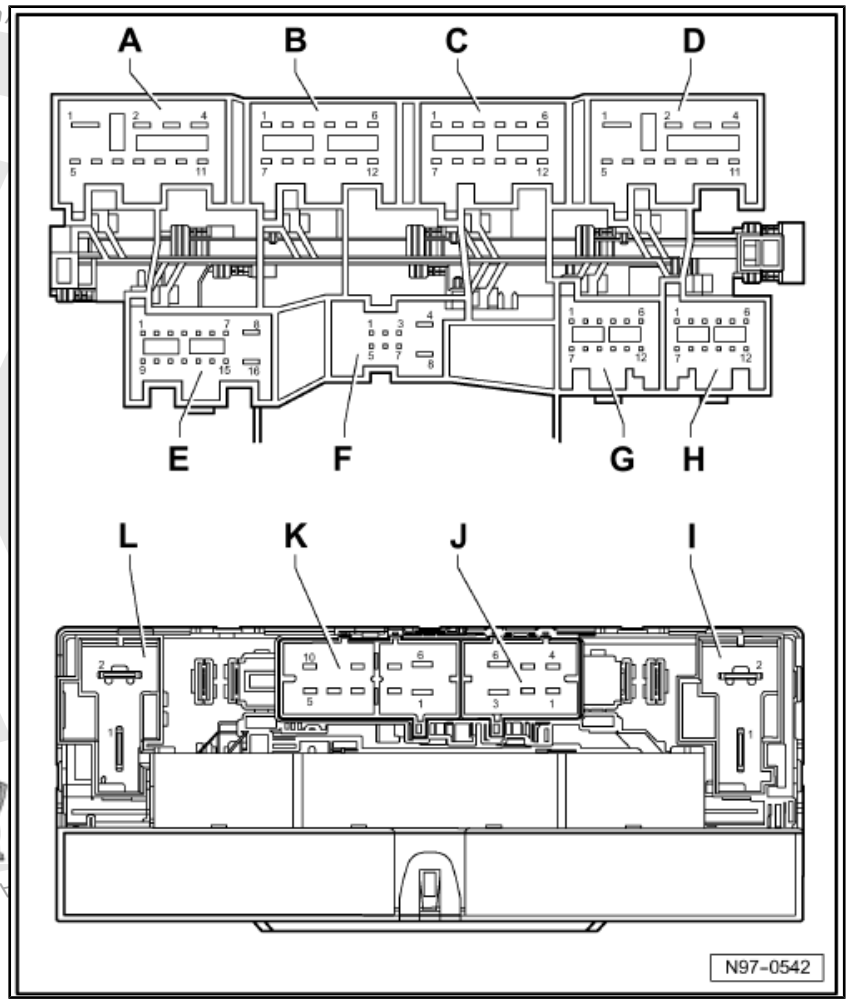
8 - Not assigned

9 - Right tail light bulb (side light)

10 - Rear right turn signal bulb

11 - Front interior light

12 - Terminal 58d



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C - 12-pin connector -T12k-

1 - Heated driver seat control unit, heated front passenger seat control unit

2 - Left brake light bulb

3 - Right fog light bulb (right-hand drive only)

4 - Not assigned

5 - Not assigned

6 - Not assigned

7 - Not assigned

8 - Registration plate left light, number plate right light

9 - High level brake light bulb

10 - Left tail light bulb (side light)

11 - Rear left turn signal bulb

12 - Left reversing light bulb (right-hand drive only)

D - 11-pin connector -T11a-

1 - Terminal 30

2 - Left fog light bulb

3 - Left headlight main beam bulb

4 - Left headlight dipped beam bulb

5 - Earth

6 - Left gas discharge (xenon) bulb

7 - Terminal 15 voltage supply relay

8 - Headlight washer system relay

9 - Not assigned

10 - Right side light bulb

11 - Front left turn signal bulb

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1.23.3 Connector assignment:

E - 16-pin connector -T16g-

1 - Lighting switch terminal 58

2 - Brake light switch

3 - Not assigned

4 - Not assigned

5 - Not assigned

6 - Fog light switch

7 - Earth (for manual gearbox only), mechatronics for dual clutch gearbox, multifunction switch (for automatic gearbox only)

8 - Lighting switch terminal 56

9 - Not assigned

10 - Not assigned

11 - Not assigned

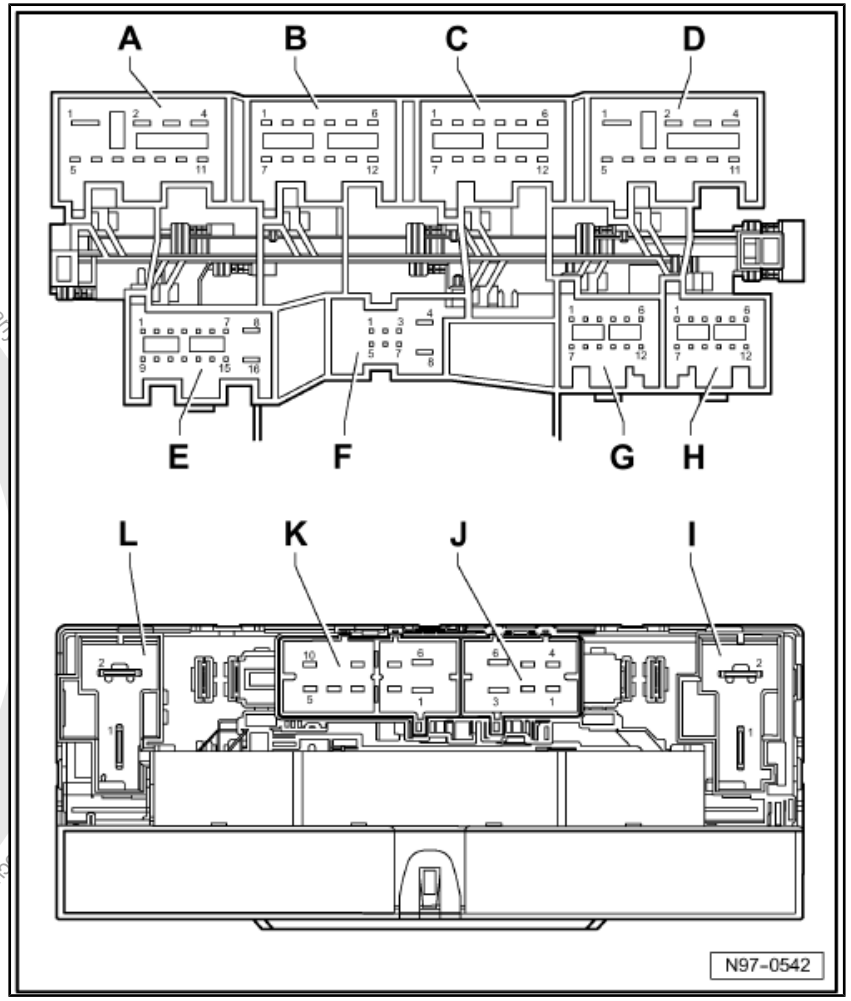
12 - Not assigned

13 - Light switch (rear fog light)

14 - Light switch (assistance light)

15 - Not assigned

16 - Light switch (day driving light)



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F - 8-pin connector -T8t-

1 - Terminal 50 voltage supply relay

2 - Terminal 15 voltage supply relay

3 - Windscreen wiper motor, rain and light detector sensor (LIN bus)

4 - Alternator

5 - Bonnet contact switch

6 - Reversing light switch

7 - Terminal 30

8 - Terminal 31

G - 12-pin connector -T12m-

1 - Steering column electronics control unit terminal 50

2 - Indicator lamp for hazard warning light

3 - Not assigned

4 - Illumination regulators, switches, instruments

5 - Not assigned

6 - Not assigned

7 - Convenience CAN bus, low

8 - Convenience CAN bus, high

9 - Hazard warning light switch

10 - Illumination regulators, switches, instruments

11 - Steering column electronics control unit terminal 15

12 - Illumination regulators, switches, instruments

H - 12-pin connector -T12-

♦ Not assigned

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I -
2-pin connector -T2cp-

1 - Fuses terminal 75 (input)

2 - Terminal 75x (output)

J - 6-pin connector -T6ap-

1 - Fuse for washer pump of windscreen and rear window (input)

2 - Motor for rear window wiper, washer pump for windscreen and rear window (rear)

3 - Horn fuse

4 - Motor for rear window wiper, washer pump for windscreen and rear window (front)

5 - Earth

6 - Treble tone horn, bass tone horn

K -
10-pin connector -T10s-

1 - Heated rear window

2 - Not assigned

3 - Not assigned

4 - Not assigned

5 - Terminal 30g fuse

6 - Heated rear window fuse

7 - Not assigned

8 - Not assigned

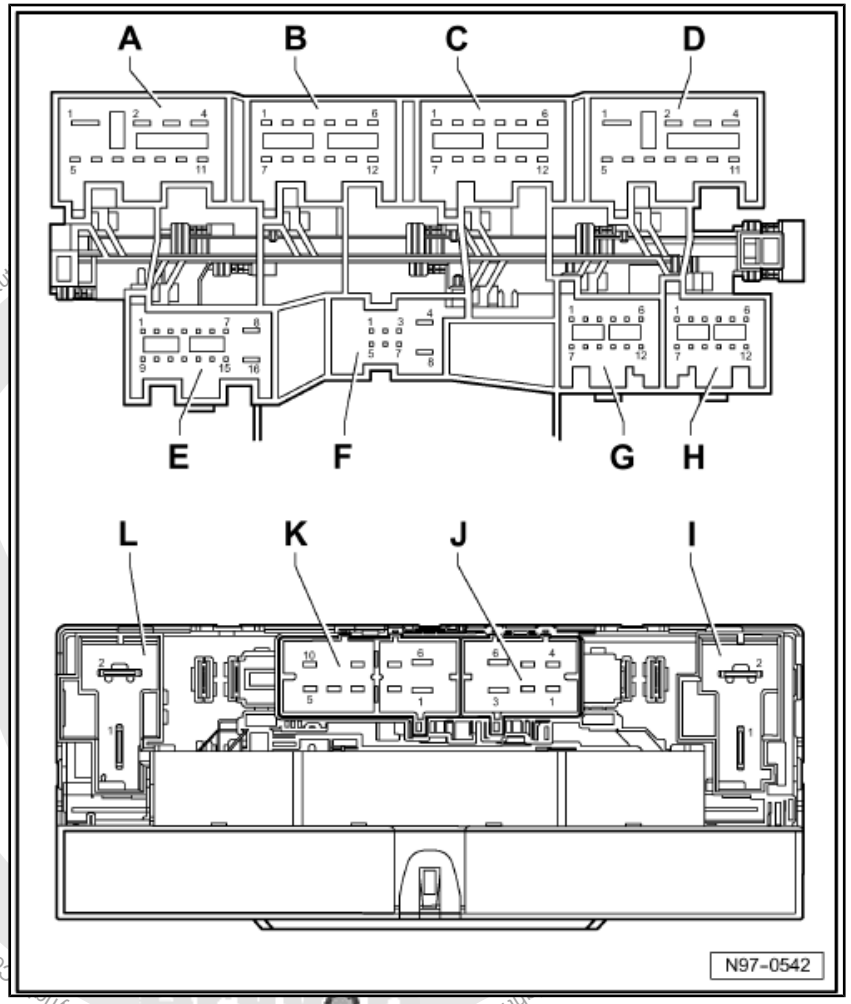
9 - Not assigned

10 - Terminal 30g

L -
2-pin connector -T2cq-

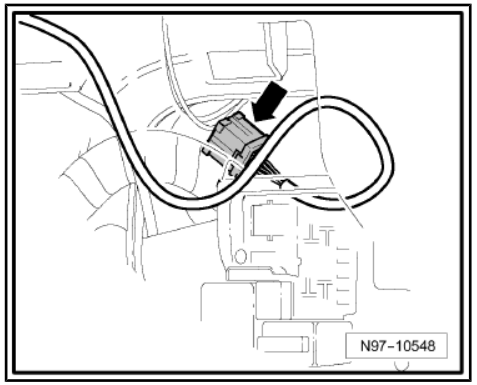
1 - Fuse for terminal 15 vehicle interior (input)

2 - Terminal 15 vehicle interior (output)



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1.24 Driving school mode relay -J746-



1.24.1 Fitting location:

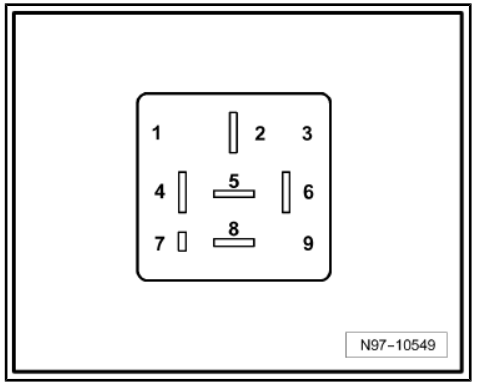
in driver footwell, behind relay carrier -arrow-

1.25 Taxi alarm remote control control unit -J601-

1.25.1 Fitting location:

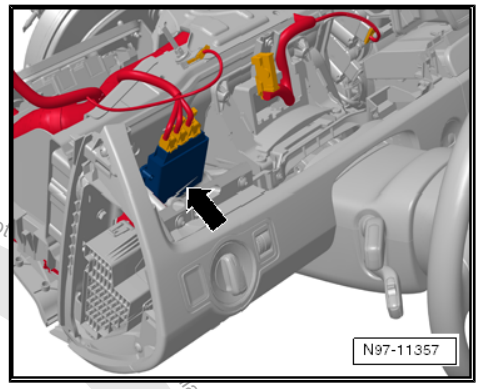
in driver footwell, behind relay carrier -arrow-.

1.25.2 Connector



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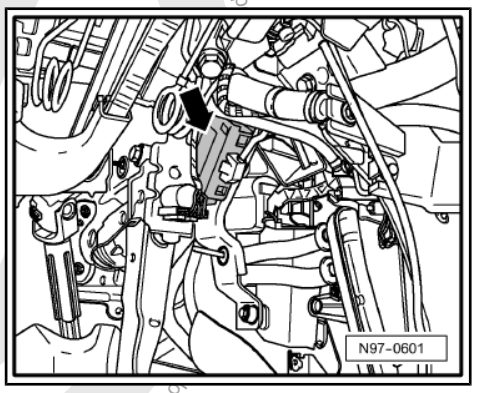
1.26 Park assist steering control unit -J791- / Parking aid control unit -J446-



1.26.1 Fitting location:

under dash panel on left, behind relay carrier above onboard supply control unit -arrow-

1.27 Data bus diagnostic interface -J533-



1.27.1 Fitting location:

Left-hand drive models:

in driver's footwell, near pedal cluster -arrow-

Right-hand drive models:

in centre console under radio unit/navigation system

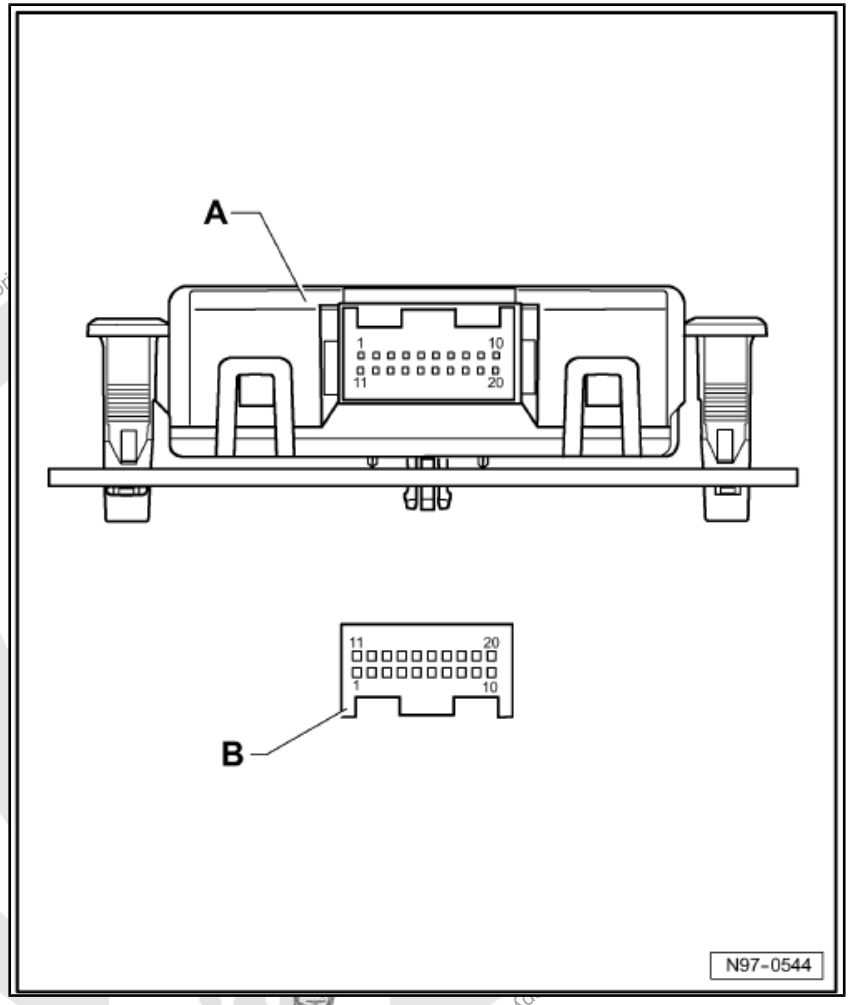
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1.27.2 Connector assignment:

A - Data bus diagnostic interface -J533-

Connector:

B - 20-pin connector -T20e-



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1 Control units in luggage compartment

1.1 Overview of control units

1 - Reversing camera system control unit -J772-
- ❑ Fitting location ⇒ page 2

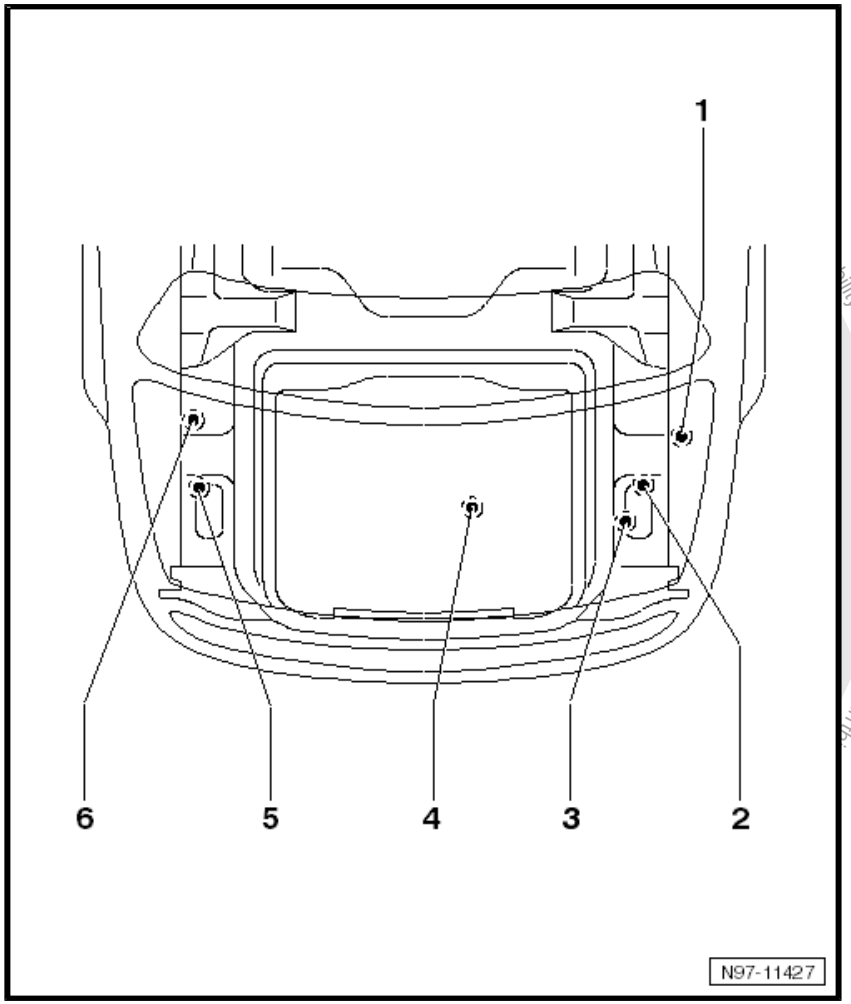
2 - TV tuner -R78-
- ❑ Fitting location ⇒ page 2

3 - Parking aid control unit -J446-
- ❑ Fitting location ⇒ page 3
- ❑ Connector assignment ⇒ page 4
- ❑ Connections, saloon ⇒ page 4
- ❑ Connections, Variant ⇒ page 4

4 - Control unit for reducing agent heater -J891-
- ❑ Fitting location ⇒ page 7

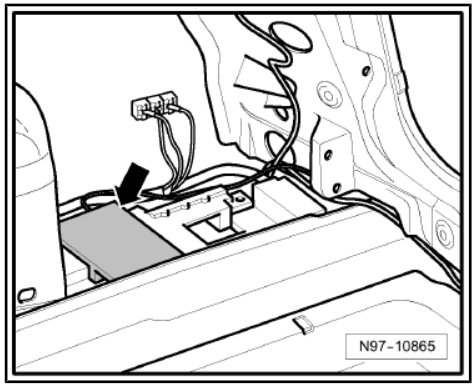
5 - Trailer detector control unit -J345-
- ❑ Fitting location ⇒ page 5
- ❑ Connector assignment ⇒ page 6
- ❑ Connections ⇒ page 6

6 - Multimedia control unit -J650-
- ❑ Fitting location ⇒ page 7



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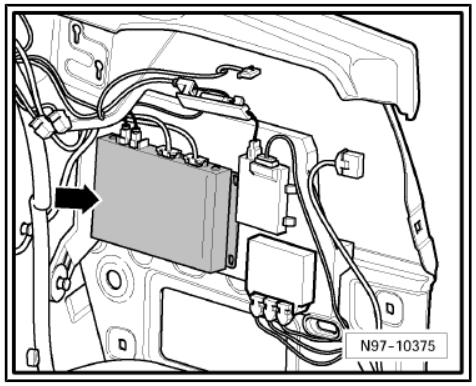
1.2 Reversing camera system control unit -J772-



1.2.1 Fitting location:

behind right luggage compartment side trim panel -arrow-

1.3 TV tuner -R78-

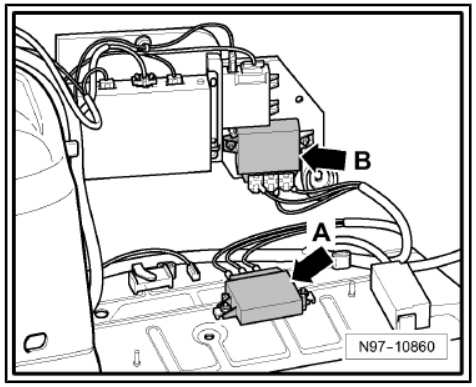


1.3.1 Fitting location:

behind right luggage compartment side trim panel -arrow-

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1.4 Parking aid control unit -J446-



1.4.1 Fitting location:

behind right luggage compartment side trim panel -arrow A- or -arrow B-

Note

- *The parking aid control unit -J446- can be installed either on a holder or on the floor panel.*
- *The parking aid control unit -J446- is installed in the luggage compartment to April 2008. from May 2008, on left under dash panel ⇒ Fitting locations: Control units in interior*

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1.4.2 Connector assignment:

A - Parking aid control unit -J446-

Connector (saloon):

B - 12-pin connector -T12- brown

C - 12-pin connector -T12a- black

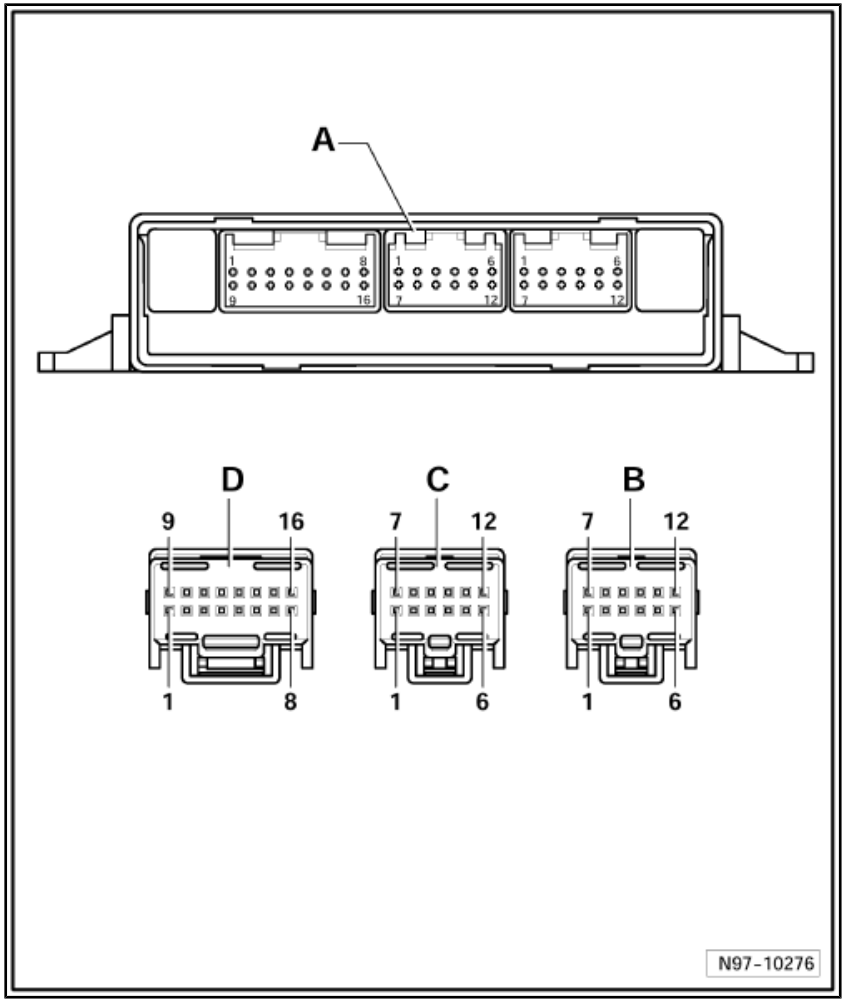
D - 16-pin connector -T16-

Connector (Variant):

B - 12-pin connector -T12a- brown

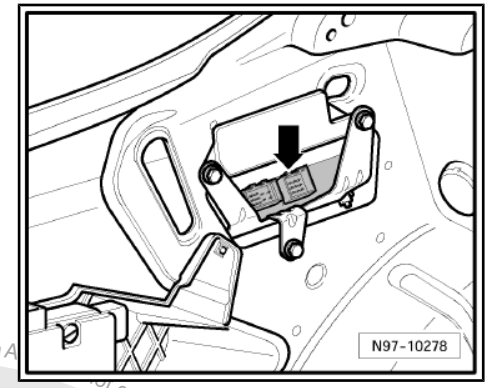
C - 12-pin connector -T12- black

D - 16-pin connector -T16-



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1.5 Trailer detector control unit -J345-



1.5.1 Fitting location:

in rear left side panel -arrow-

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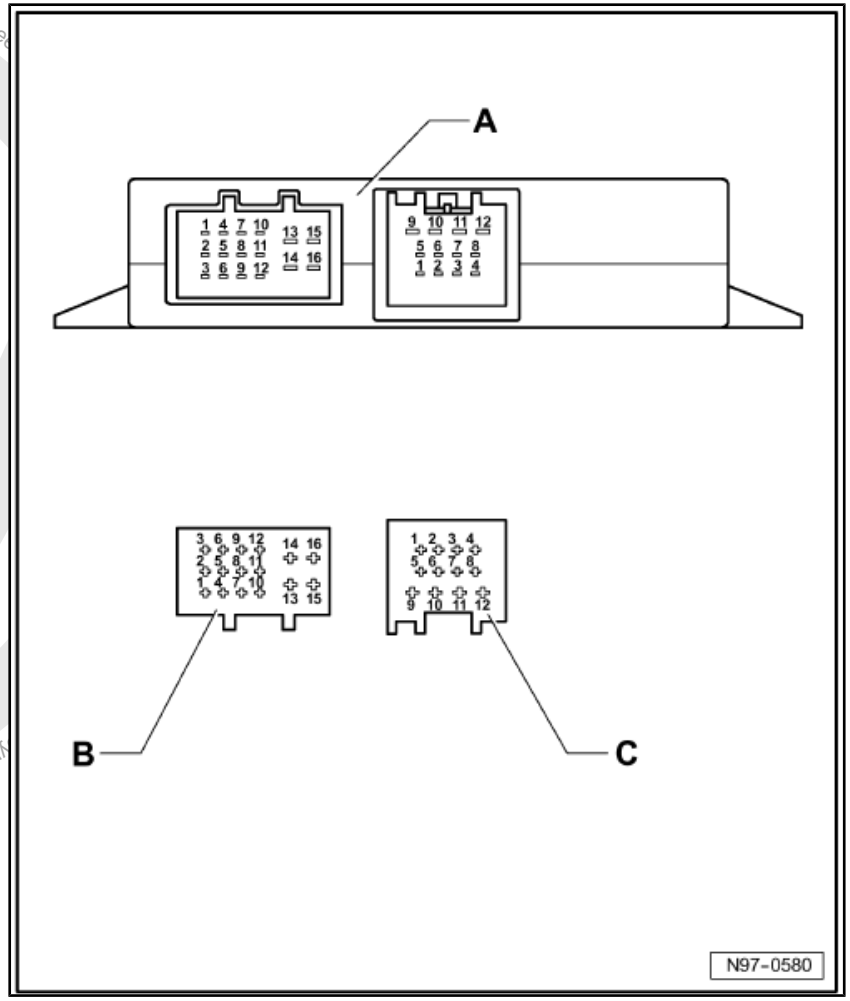
1.5.2 Connector assignment:

A - Trailer detector control unit -J345-

Connector:

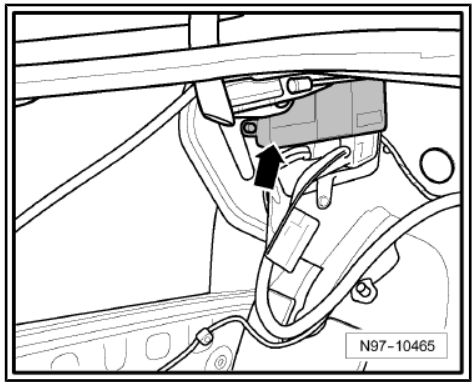
B - 16-pin connector -T16z-

C - 12-pin connector -T12g-



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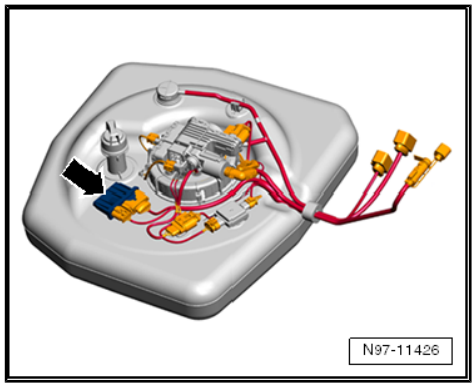
1.6 Multimedia control unit -J650-



1.6.1 Fitting location:

in luggage compartment behind left side panel trim -arrow-.

1.7 Control unit for reducing agent heater -J891-



1.7.1 Fitting location:

The control unit for reducing agent heater -J891- is located in spare wheel well -arrow-

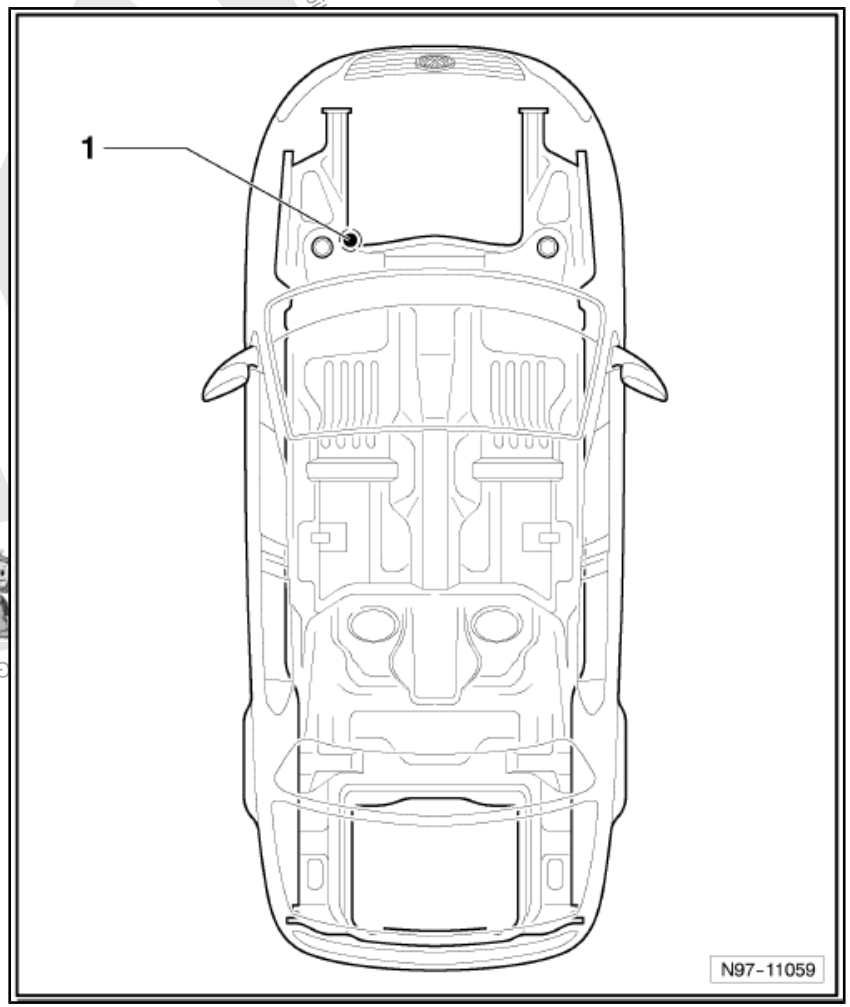
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1 Coupling stations and connectors for wiring harnesses

1.1 Overview of coupling stations and connectors

1 - Terminal 30 wiring junction -TV2-

- ❑ Fitting location ⇒ page 2

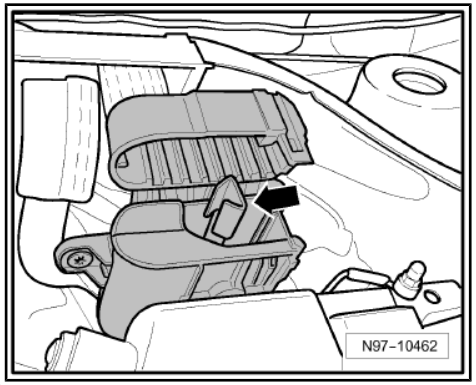


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1.2 Terminal 30 wiring junction -TV2-

1.2.1 Fitting location:

in front left of engine compartment -arrow-



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