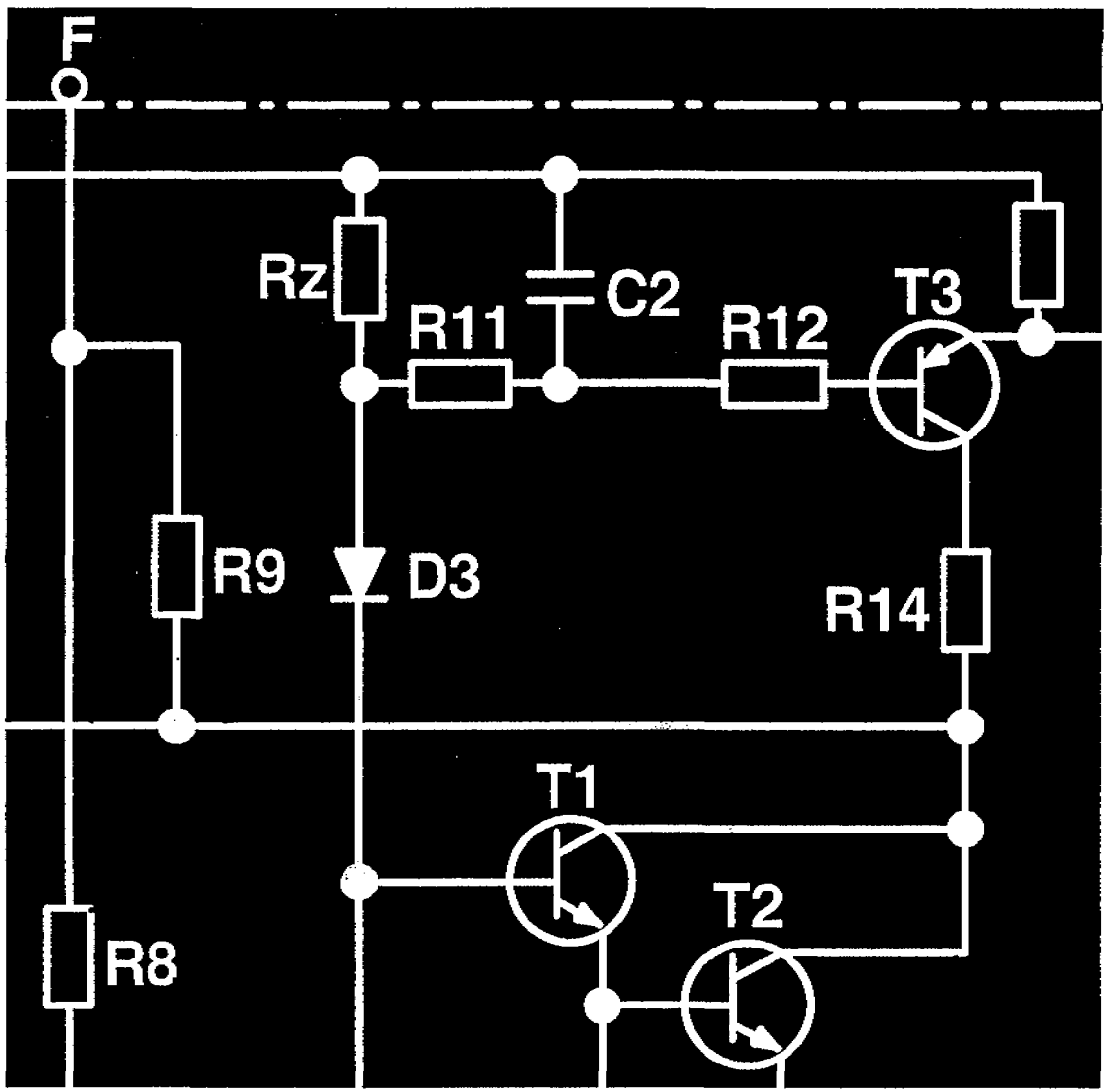


1993
BMW
525i, 525it, 535i, M5 (E34)
Electrical Troubleshooting Manual

Vehicles Produced 9/92 to 8/93

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ELECTRICAL TROUBLESHOOTING MANUAL

5 SERIES – E34 (525i, 525i/t, 535i, M5)

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SEAT CONTROL SWITCH, DRIVER'S, S51 ..... 5200.0
SEAT CONTROL SWITCH, PASSENGER'S, S56 ..... 5200.0
SEAT CUSHION MOVEMENT POTENTIOMETER, R9 ..... 5200.1
SEAT CUSHION REAR HEIGHT POTENTIOMETER, R8 ..... 5200.1
SEAT CUSHION TILT MOTOR, DRIVER'S, M50 ..... 5200.0
SEAT CUSHION TILT MOTOR, DRIVER'S, M50 ..... 5200.1
SEAT CUSHION TILT MOTOR, PASSENGER'S, M61 ..... 5200.0
SEAT HEATER, DRIVER'S, E57 ..... 5203.0
SEAT HEATER, PASSENGER'S, E58 ..... 5203.0
SEAT HEATER SWITCH, DRIVER'S, S53 ..... 5203.0
SEAT HEATER SWITCH, PASSENGER'S, S54 ..... 5203.0
SEAT HEADREST MOTOR, PASSENGER'S, M57 ..... 5200.0
SEAT HEIGHT MOTOR, DRIVER'S, M52 ..... 5200.0
SEAT HEIGHT MOTOR, DRIVER'S, M52 ..... 5200.1
SEAT HEIGHT MOTOR, PASSENGER'S, M59 ..... 5200.0
SEAT HEIGHT POTENTIOMETER, R6 ..... 5200.1
SEAT MOVEMENT MOTOR, DRIVER'S, M51 ..... 5200.0
SEAT MOVEMENT MOTOR, DRIVER'S, M51 ..... 5200.1
SEAT MOVEMENT MOTOR, PASSENGER'S, M60 ..... 5200.0
SEAT/MIRROR MEMORY CONTROL MODULE, A21 ..... 5200.1
SEAT/MIRROR MEMORY SYSTEM (SM/SPM) 5200.1
SECONDARY AIR INJECTION CHANGEOVER VALVE, Y6132 .... 1210.4-07
SERVOTRONIC CONTROL MODULE, A17 ..... 3240.0
SHIFT LOCK, S8522 ..... 2460.0
SHIFT LOCK, S8522 ..... 2460.2-06
SIDE MARKER LIGHT, LEFT REAR, E70 ..... 6301.0
SIDE MARKER LIGHT, RIGHT REAR, E71 ..... 6301.0
SIDE MEMORY MIRROR, DRIVER'S, Y9 ..... 5200.1
SIDE MIRROR, DRIVER'S, Y5 ..... 5116.0
SLIP CONTROL (ABS/ASC) 3450.1
SLIP CONTROL (ABS) 3450.0
SLIP CONTROL MODULE (ABS/ASC), A70 ..... 3450.1-00
SLIP CONTROL MODULE (ABS), A7 ..... 3450.0-02
SPEAKER, LEFT FRONT, H41 ..... 6561.0
SPEED SENSOR - ABS, LEFT FRONT, B2 ..... 3450.0

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SPEED SENSOR - ABS, LEFT FRONT, B2 ..... 3450.1
SPEED SENSOR - ABS, LEFT REAR, B4 ..... 3450.0
SPEED SENSOR - ABS, LEFT REAR, B4 ..... 3450.1
SPEED SENSOR - ABS, RIGHT FRONT, B1 ..... 3450.0
SPEED SENSOR - ABS, RIGHT FRONT, B1 ..... 3450.1
SPEED SENSOR - ABS, RIGHT REAR, B3 ..... 3450.0
SPEED SENSOR - ABS, RIGHT REAR, B3 ..... 3450.1
SPLICE LOCATION VIEWS 8000.0
START 1240.0
STARTER, M6510 ..... 1240.0-01
STARTER RELAY, K1 ..... 1240.0-01
STEERING COLUMN LENGTH ADJUST MOTOR, M82 ..... 3231.0-00
STEERING COLUMN POSITION SWITCH, S119z 3231.0-00
SUNROOF MOTOR, M24 ..... 5410.0
SUNROOF POSITION SWITCH, S39 ..... 5410.0
SUNROOF SWITCH, S38 ..... 5410.0
SUNROOF SWITCH, S38 ..... 5410.2
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE, A12 .. 3234.0
SUPPRESSION FILTER, C900 ..... 6424.0
SYMBOLS 0140.0
TAIL LIGHT, LEFT, H25 ..... 6314.0
TAIL LIGHT, RIGHT, H30 ..... 6314.0
TELEPHONE HANDSET, U4 ..... 6561.0
TELEPHONE INTERFACE US, A192 ..... 6561.0
TELEPHONE TRANSCEIVER, H38 ..... 6561.0
TEMPERATURE SWITCH, B6235 ..... 1290.0-00
TEMPERATURE SWITCH, S36 ..... 6454.0
THIGH SUPPORT MOTOR, DRIVER'S, M65 ..... 5200.0
THIGH SUPPORT MOTOR, DRIVER'S, M65 ..... 5200.1
THIGH SUPPORT MOTOR, PASSENGER'S, M66 ..... 5200.0
THIGH SUPPORT POTENTIOMETER, R15 ..... 5200.1
THIGH SUPPORT SWITCH, PASSENGER'S, S94 ..... 5200.0
THIGH SUPPORT SWITCH, DRIVER'S, S93 ..... 5200.0
THIGH SUPPORT SWITCH, DRIVER'S, S93 ..... 5200.1
THROTTLE CONTROL MODULE (EML), A6004 ..... 1270.0-02
THROTTLE POSITION SENSOR, R6252 ..... 1210.13-05
THROTTLE POSITION SENSOR, S6250 ..... 1210.2-01
THROTTLE POSITION SENSOR, S6251 ..... 1210.4-07
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.0
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.2
TRANSMISSION POSITION INDICATOR LIGHT, E82 ..... 6300.0
TRANSMISSION RANGE SELECTOR LIGHT, E9500 ..... 6300.0
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.0
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.2
TRUNK COMPARTMENT LIGHT, E32 ..... 6320.0
TRUNK LID LIGHT, E33 ..... 6320.0
TRUNK LIGHT, LEFT, H90 ..... 6320.0
TRUNK LIGHT, RIGHT, H91 ..... 6320.0
TRUNK LOCK MOTOR, M17 ..... 5126.0
TURN/HAZARD LIGHTS 6313.0
TURN LIGHT, LEFT FRONT, H7 ..... 6313.0
TURN LIGHT, LEFT REAR, H6 ..... 6313.0
TURN LIGHT, RIGHT FRONT, H4 ..... 6313.0
TURN LIGHT, RIGHT REAR, H5 ..... 6313.0
UNCOUPLING DIODE (KL61), V9501 ..... 1230.0-00
UNDERHOOD LIGHT, E20 ..... 6300.0
UNDERHOOD LIGHT SWITCH, S19 ..... 6300.0
UNLOADER RELAY, TERMINAL 15, K9 ..... 0670.2
UNLOADER RELAY, TERMINAL 61, K61 ..... 1230.0-00
UNLOADER RELAY, TERMINAL R, K3 ..... 0670.2
VEHICLE SPEED SENSOR, B10 ..... 6200.0
VOLUME AIR FLOW SENSOR, B6233 ..... 1210.1-09
VOLUME AIR FLOW SENSOR, B6233 ..... 1210.2-09
WASHER FLUID LEVEL SWITCH, S64 ..... 6200.2
WASHER JET HEATER, LEFT, E51 ..... 6169.0
WASHER JET HEATER, RIGHT, E52 ..... 6169.0
WASHER PUMP, M4 ..... 6160.0
WATER PUMP, M37A 6450.5
WATER VALVE ASSEMBLY, Y4 ..... 6450.5
WHEEL CAMBER CONTROL MODULE, B22 ..... 6200.0
WIDE OPEN THROTTLE CUT-OFF RELAY, K86 ..... 6450.5
WINDOW DEFOGGER, REAR 6424.0
WINDOW LIMIT SWITCH, DRIVER'S, S43 ..... 5133.0
WINDOW LIMIT SWITCH, LEFT REAR, S45 ..... 5133.0

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WINDOW LIMIT SWITCH, PASSENGER'S, S44 ..... 5133.0
WINDOW LIMIT SWITCH, REAR, S170 ..... 5126.0-06
WINDOW LIMIT SWITCH, RIGHT REAR, S46 ..... 5133.0
WINDOW MOTOR, DRIVER'S, M21 ..... 5133.0
WINDOW MOTOR, LEFT REAR, M20 ..... 5133.0
WINDOW MOTOR, PASSENGER'S, M23 ..... 5133.0
WINDOW MOTOR, REAR, M96 ..... 5126.0-06
WINDOW MOTOR RELAY, K90 ..... 5126.0-06
WINDOW MOTOR, RIGHT REAR, M22 ..... 5133.0
WINDOW OPENING SWITCH, REAR, S147 ..... 6162.0
WINDOW SWITCH LEFT, REAR, S41 ..... 5133.0
WINDOW SWITCH RIGHT, REAR, S42 ..... 5133.0
WINDOW WASHER RELAY, REAR, K89 ..... 6162.0
WINDOW WIPER MOTOR, REAR, M94 ..... 6162.0
WINDOW WIPER RELAY I, REAR, K91w 6162.0
WINDOW WIPER RELAY II, REAR, K92 ..... 6162.0
WINDSHIELD WASHER JET HEATERS 6169.0
WIPER MOTOR, M3 ..... 6160.0
WIPER RELAY, K11 ..... 6160.0
WIPER/WASHER FLUID LEVEL SWITCH, REAR, S176 ..... 6200.0
WIPER/WASHER SWITCH, S5 ..... 6160.0
WIPER/WASHER SWITCH, S5 ..... 6162.0
ZKE CENTRAL LOCKING (ZV) 5126.0
ZKE DOOR LOCK HEATING (TSH) 5120.0
ZKE HEADLIGHT WASHER (SRA) 6167.0
ZKE INTERIOR LIGHTS CONTROL (IB) 6330.0
ZKE POWER WINDOWS (FH) 5133.0
ZKE SUNROOF (SHD) 5410.0

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Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self-explicit. They are arranged on the sheet such that the current path can be followed from positive (top) to negative (bottom).

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead which is only a few cm long. To enhance the clarity of the schematics, all connectors and splices between fuses and components as well as between grounds and components have been omitted. If this information should be required, it may be referenced in cells **0670.3 Fuse Details** and **0670.4 Ground Distribution**.

All circuit symbols used are listed and explained in cell **0140.0 Symbols**.

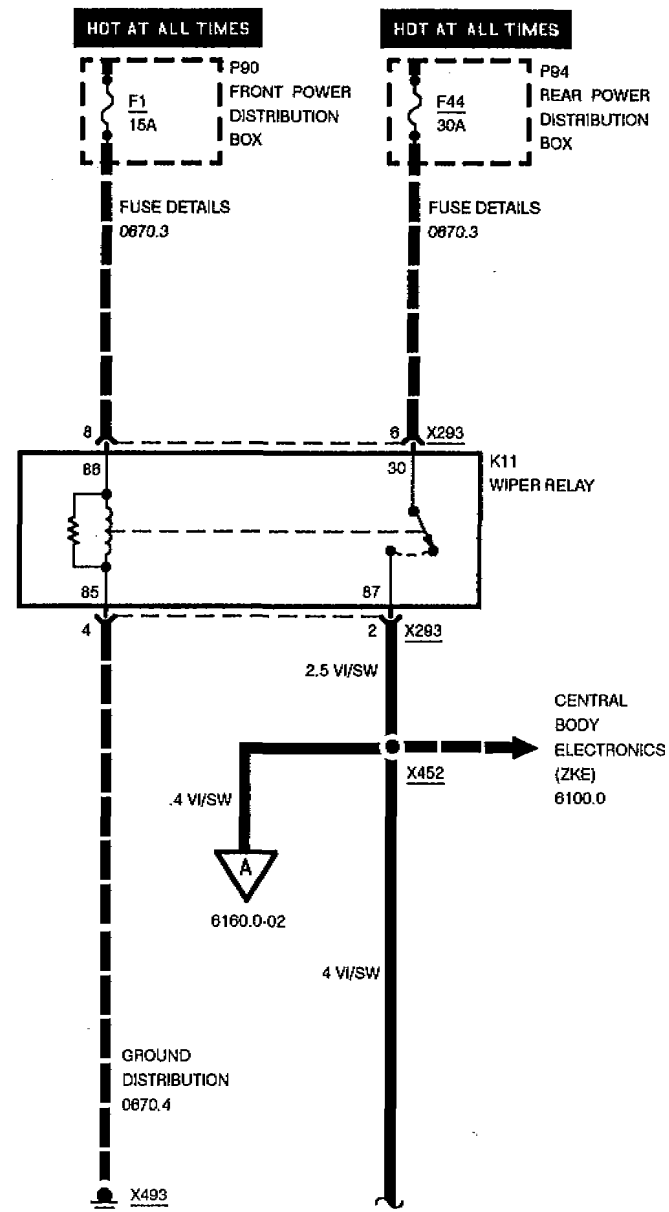
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the locations of the connectors and components which are difficult to locate are shown in photographs. In cell **8500.0 Connector Views** diagrams of all connectors with more than three pins are illustrated.

Included in this ETM are foldout block diagrams. These are overviews of the entire system (EGS, ABS, AC etc.) which helps understand the relationships between various components and control module of the system being diagnosed.

Example

General conventions can be explained based on the following schematic example.



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General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).

2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).

3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).

4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.

5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell 0670.3 Fuse Details at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.

6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell 6100.0 Central Body Electronics (ZKE). An interrupted line with an arrow indicates that only this one wire leads to another circuit.

7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell 0670.4 Ground Distribution at ground X493 for the complete line progression with all plug connections, line branches, wire colors and cross sections.

8. The interrupted line from splice X452 with an A in the open arrow is continued on page 6160.0-02. Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.

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SYMBOLS


BATTERY


FUSE DETAILS

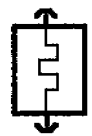

FUSIBLE LINK


CIRCUIT BREAKER


THERMO SWITCH

SOLENOID


SOLENOID CONTROLLED VALVE OR CLUTCH SOLENOID

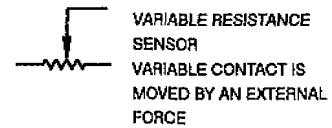

HEATING ELEMENT


LOUDSPEAKER OR HORN


LIGHT


PERMANENT MAGNET MOTOR ONE SPEED

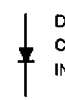

PERMANENT MAGNET MOTOR TWO SPEEDS

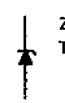

VARIABLE RESISTANCE SENSOR
VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE


VARIABLE RESISTOR
RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE

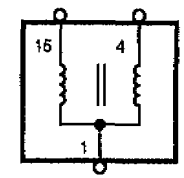


INDUCTIVE SENSOR


DIODE
CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW


ZENER DIODE
TO REGULATE VOLTAGE

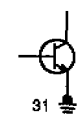

LIGHT EMITTING DIODE



IGNITION COIL


CONTROL/POWER ELECTRONICS


RADIO

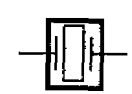


TRANSISTORIZED SWITCH


OXYGEN SENSOR

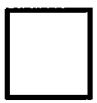


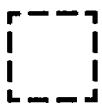
VEHICLE SPEED SENSOR

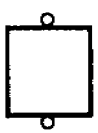

KNOCK SENSOR

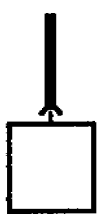
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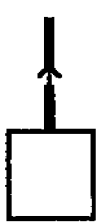
SYMBOLS


ENTIRE COMPONENT SHOWN

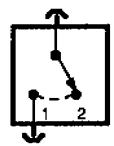

PART OF COMPONENT SHOWN


COMPONENT WITH SCREW TERMINALS

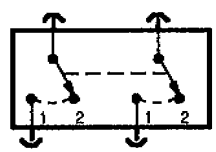

CONNECTOR ATTACHED TO COMPONENT


CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)


COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)



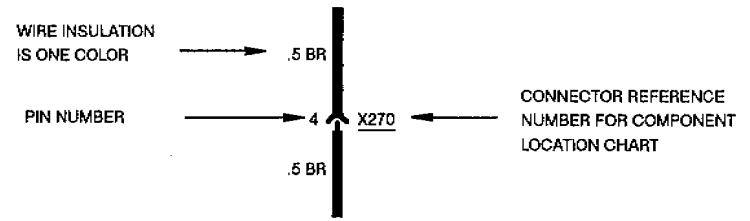
ONE POLE, TWO POSITION SWITCH

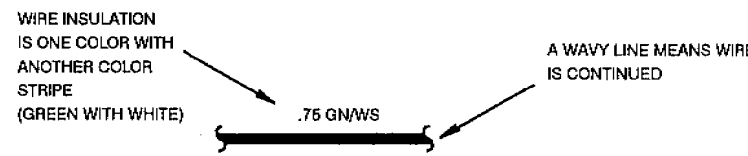


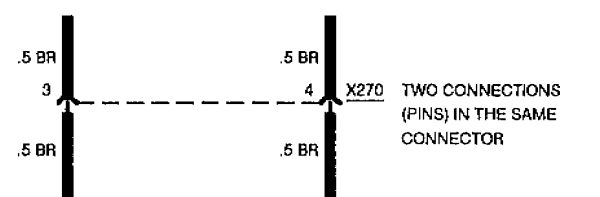
SWITCHES THAT MOVE TOGETHER

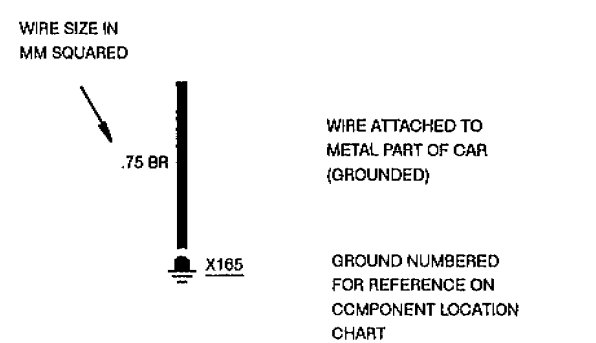
DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT

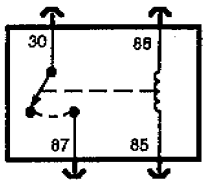




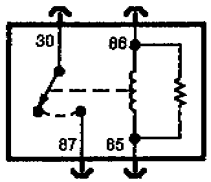




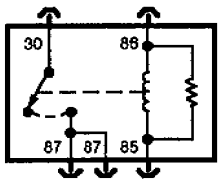
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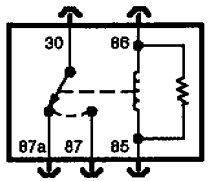
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

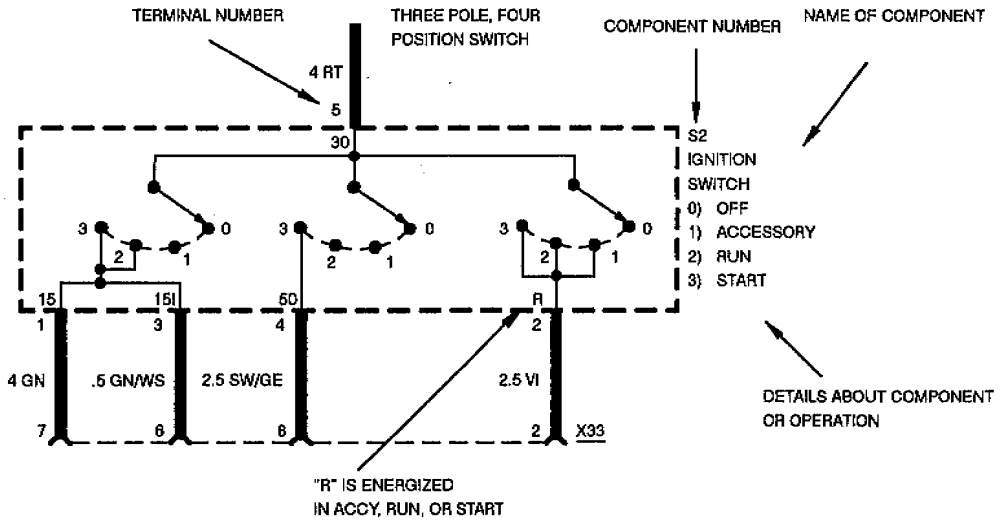


CONTACT RELAY WITH TWO OUTPUTS

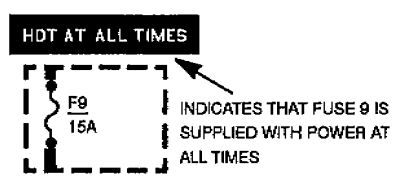


CHANGEOVER RELAY WITH TWO OUTPUTS

TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87a	RELAY OUTPUT (AT REST)



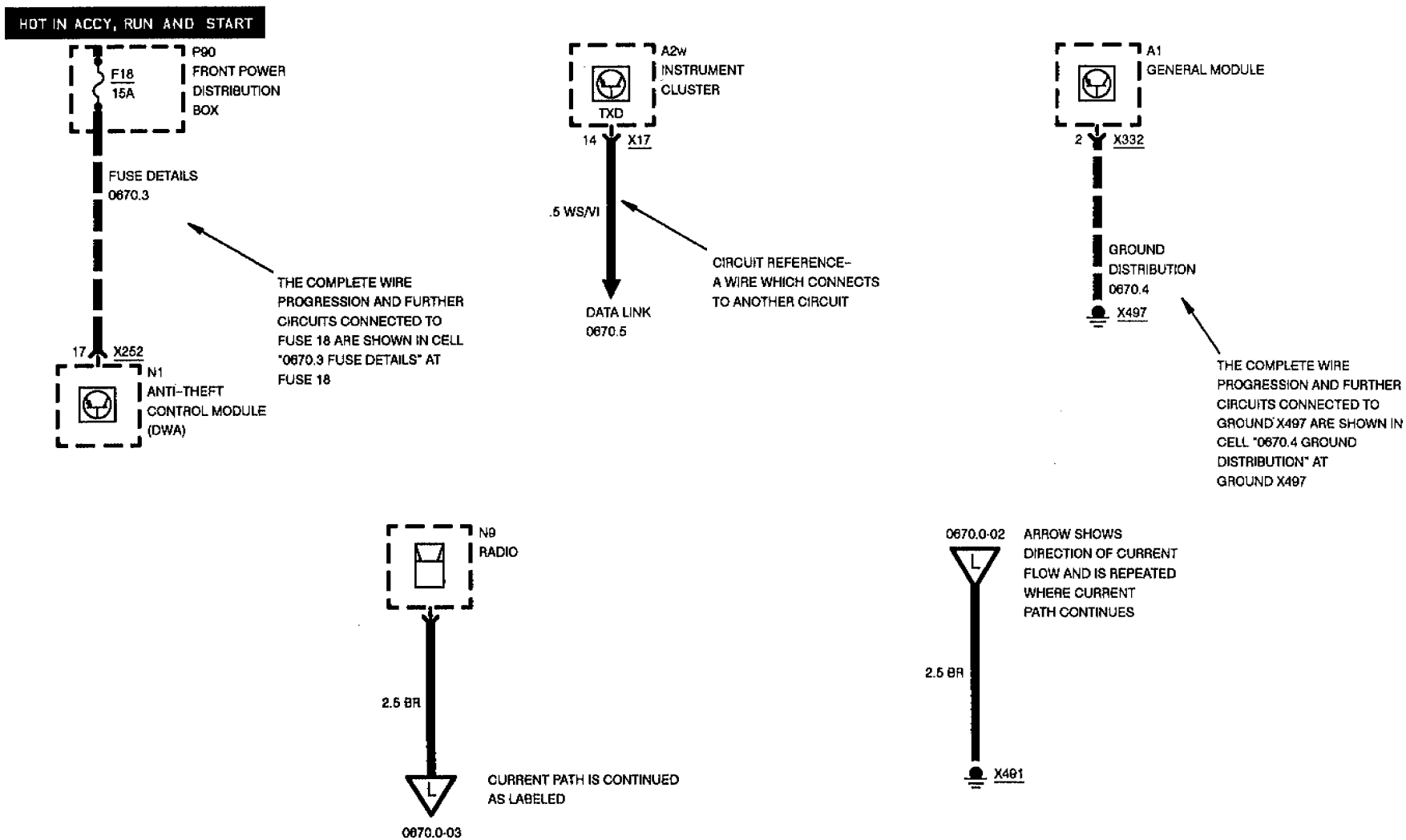
TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND



POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

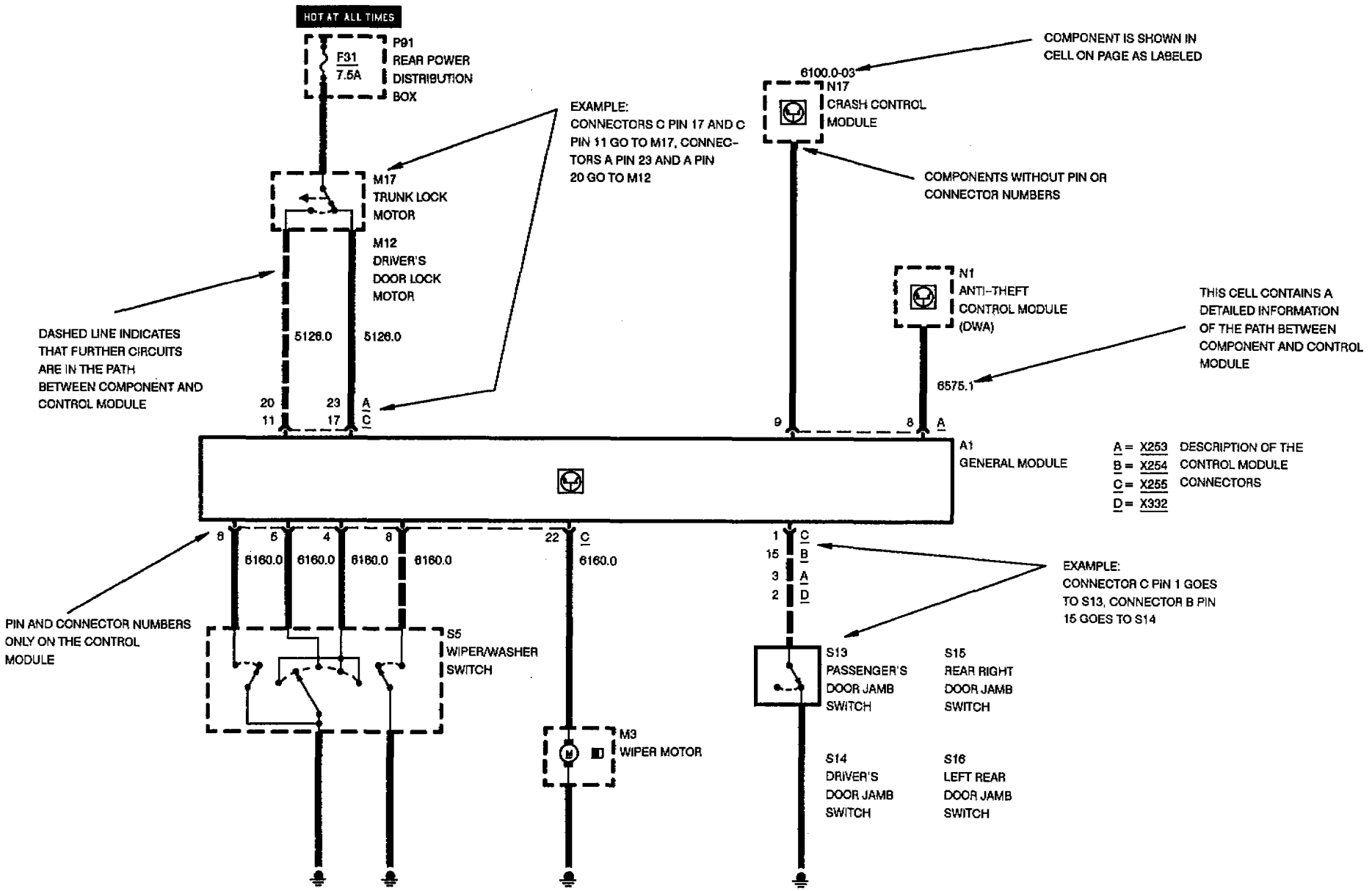
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SYMBOLS



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SYMBOLS
BLOCK DIAGRAM



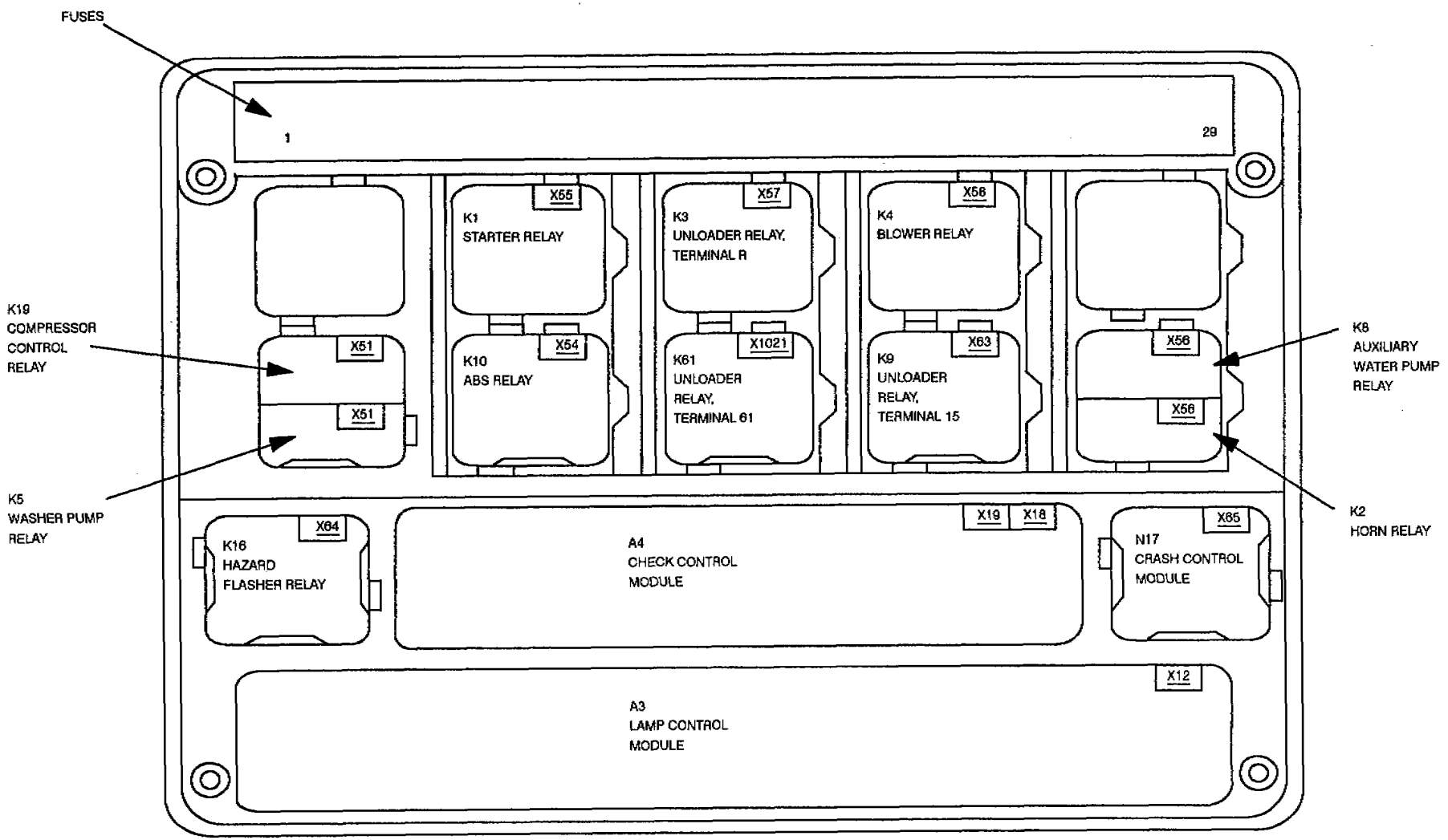
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POWER DISTRIBUTION CHART

FRONT POWER DISTRIBUTION BOX

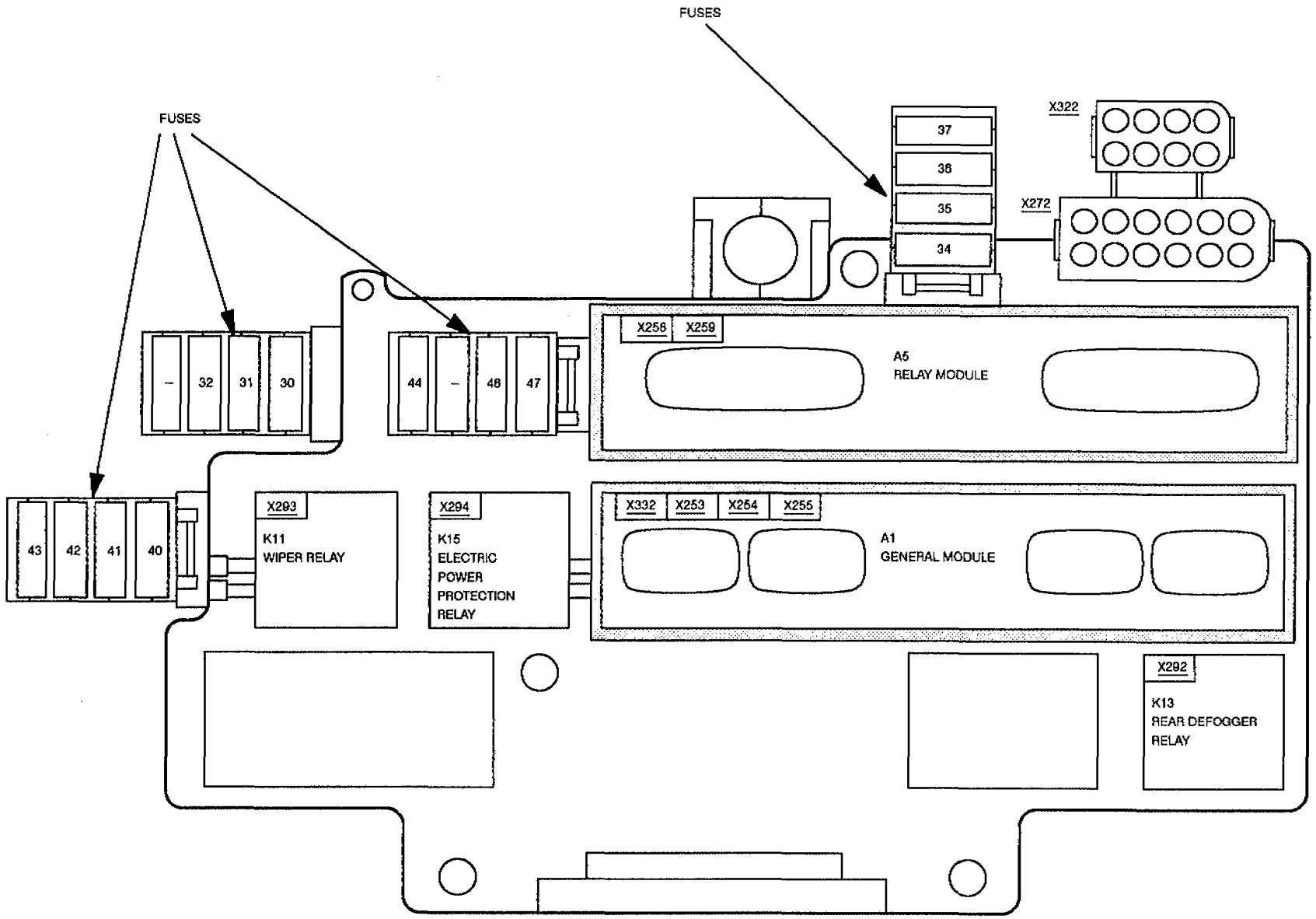
ZKE



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POWER DISTRIBUTION CHART

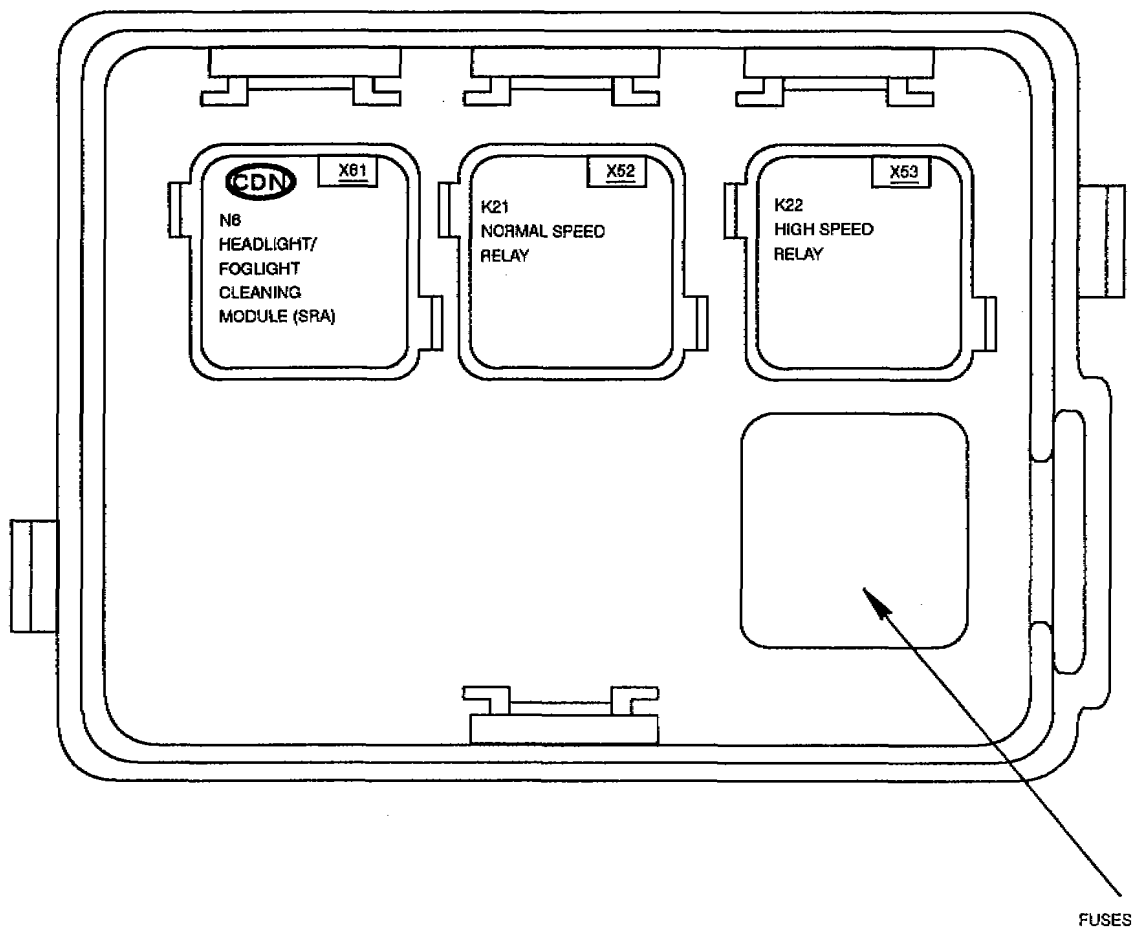
REAR POWER DISTRIBUTION BOX



carplan.com

POWER DISTRIBUTION CHART

AUXILIARY RELAY BOX



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FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		15A	7.5A	7.5A	7.5A	10A	15A	15A		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A
1210.1	ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)																	●						●						
1210.2	ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)																	●						●						
1210.4	ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)																							●						
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)																	●						●						
1230.0	CHARGING SYSTEM																	●											●	
1240.0	START																	●												
1270.0	ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)	●																●			●									
1290.0	E-BOX FAN																	●											●	
2460.0	ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)	●																●												
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)	●																●												
3231.0	ELECTRIC STEERING COLUMN ADJUSTMENT																													
3240.0	POWER ASSIST STEERING (SERVOTRONIC)																												●	
3450.0	SLIP CONTROL (ABS)	●																●												
3450.1	SLIP CONTROL (ABS/ASC)	●																●												●
5116.0	POWER MIRRORS												●						●											
5120.0	ZKE DOOR LOCK HEATING (TSH)																	●												
5126.0	ZKE CENTRAL LOCKING (ZV)																													
5133.0	ZKE POWER WINDOWS (FH)																	●												
5200.0	POWER SEATS																													

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FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		15A	7.5A	7.5A	7.5A	10A	15A	15A		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A
5200.1	SEAT/MIRROR MEMORY SYSTEM (SM/SPM)												●				●		●											
5203.0	HEATED SEATS																●													
5410.0	ZKE SUNROOF (SHD)																	●												
5410.2	DOUBLE PANEL POWER SUNROOF (ZKE)																													
6100.0	CENTRAL BODY ELECTRONICS (ZKE)			●	●	●												●							●					
6133.0	HORN									●																				
6160.0	ZKE WIPER/WASHER CONTROL	●																							●					
6162.0	REAR WINDOW WIPER/WASHER CONTROL																		●											
6167.0	ZKE HEADLIGHT WASHER (SRA)			●	●	●												●					●							
6169.0	WINDSHIELD WASHER JET HEATERS												●																	
6200.0	INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)	●																●			●									●
6213.2	MULTI-FUNCTION CLOCK	●																			●									
6300.0	LIGHT SWITCH DETAILS		●	●	●	●																								
6301.0	LAMP MONITOR (LKM)	●	●	●	●	●		●			●	●		●	●	●														
6312.0	HEADLIGHTS/ FOG LIGHTS		●	●		●		●			●	●		●	●															
6313.0	TURN/HAZARD LIGHTS		●	●			●							●	●															
6314.0	PARK/TAIL/ UNDERHOOD LIGHTS				●	●										●														
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS					●										●						●								
6322.0	BACK UP LIGHTS												●																	

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FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		15A	7.5A	7.5A	7.5A	10A	15A	15A		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A
6325.0	BRAKE LIGHTS	●														●														
6330.0	ZKE INTERIOR LIGHTS CONTROL (IB)																		●			●								
6332.0	INTERIOR ACCESSORIES					●													●			●					●			
6350.0	CRASH CONTROL MODULE		●				●				●	●																		
6412.19	PARK VENTILATION WITH IHKR/F3																			●	●									
6424.0	REAR WINDOW DEFOGGER																													
6450.5	INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)									●										●	●							●		●
6454.0	AUXILIARY FAN									●																●				●
6510.1	RADIO/HIFI																		●											
6510.2	RADIO PROVISIONS																		●											
6561.0	CELLULAR TELEPHONE (PROVISIONS)																		●											
6571.0	CRUISE CONTROL (TEMPOMAT)	●																●												
6575.2	ANTI-THEFT SYSTEM (ALPINE)																		●											
6581.0	ON-BOARD COMPUTER (BCIV)	●																●			●									

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FUSE CHART

FUSES 30 TO 49

		FUSE NUMBER																													
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49										
		10A		7.5A	7.5A	30A	30A	30A	30A			7.5A	30A	30A	30A	20A															
1210.1	ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)																														
1210.2	ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)																														
1210.4	ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)																														
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)																														
1230.0	CHARGING SYSTEM																														
1240.0	START																														
1270.0	ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)																														
1290.0	E-BOX FAN																														
2460.0	ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)																														
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																														
3231.0	ELECTRIC STEERING COLUMN ADJUSTMENT												●																		
3240.0	POWER ASSIST STEERING (SERVOTRONIC)																														
3450.0	SLIP CONTROL (ABS)																														
3450.1	SLIP CONTROL (ABS/ASC)																														
5116.0	POWER MIRRORS																														
5120.0	ZKE DOOR LOCK HEATING (TSH)			●																											
5126.0	ZKE CENTRAL LOCKING (ZV)			●	●				●							●															
5133.0	ZKE POWER WINDOWS (FH)			●	●				●																						
5200.0	POWER SEATS													●	●																

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FUSE CHART

FUSES 30 TO 49

		FUSE NUMBER																		
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
		10A		7.5A	7.5A	30A	30A	30A	30A			7.5A	30A	30A	30A	20A					
5200.1	SEAT/MIRROR MEMORY SYSTEM (SM/SPM)																				
5203.0	HEATED SEATS																				
5410.0	ZKE SUNROOF (SHD)			●	●				●												
5410.2	DOUBLE PANEL POWER SUNROOF (ZKE)			●																	
6100.0	CENTRAL BODY ELECTRONICS (ZKE)			●					●												
6133.0	HORN																				
6160.0	ZKE WIPER/WASHER CONTROL					●															
6162.0	REAR WINDOW WIPER/WASHER CONTROL															●					
6167.0	ZKE HEADLIGHT WASHER (SRA)																				
6169.0	WINDSHIELD WASHER JET HEATERS																				
6200.0	INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)																				
6213.2	MULTI-FUNCTION CLOCK																				
6300.0	LIGHT SWITCH DETAILS																				
6301.0	LAMP MONITOR (LKM)																				
6312.0	HEADLIGHTS/ FOG LIGHTS																				
6313.0	TURN/HAZARD LIGHTS																				
6314.0	PARK/TAIL/ UNDERHOOD LIGHTS																				
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS																				
6322.0	BACK UP LIGHTS																				

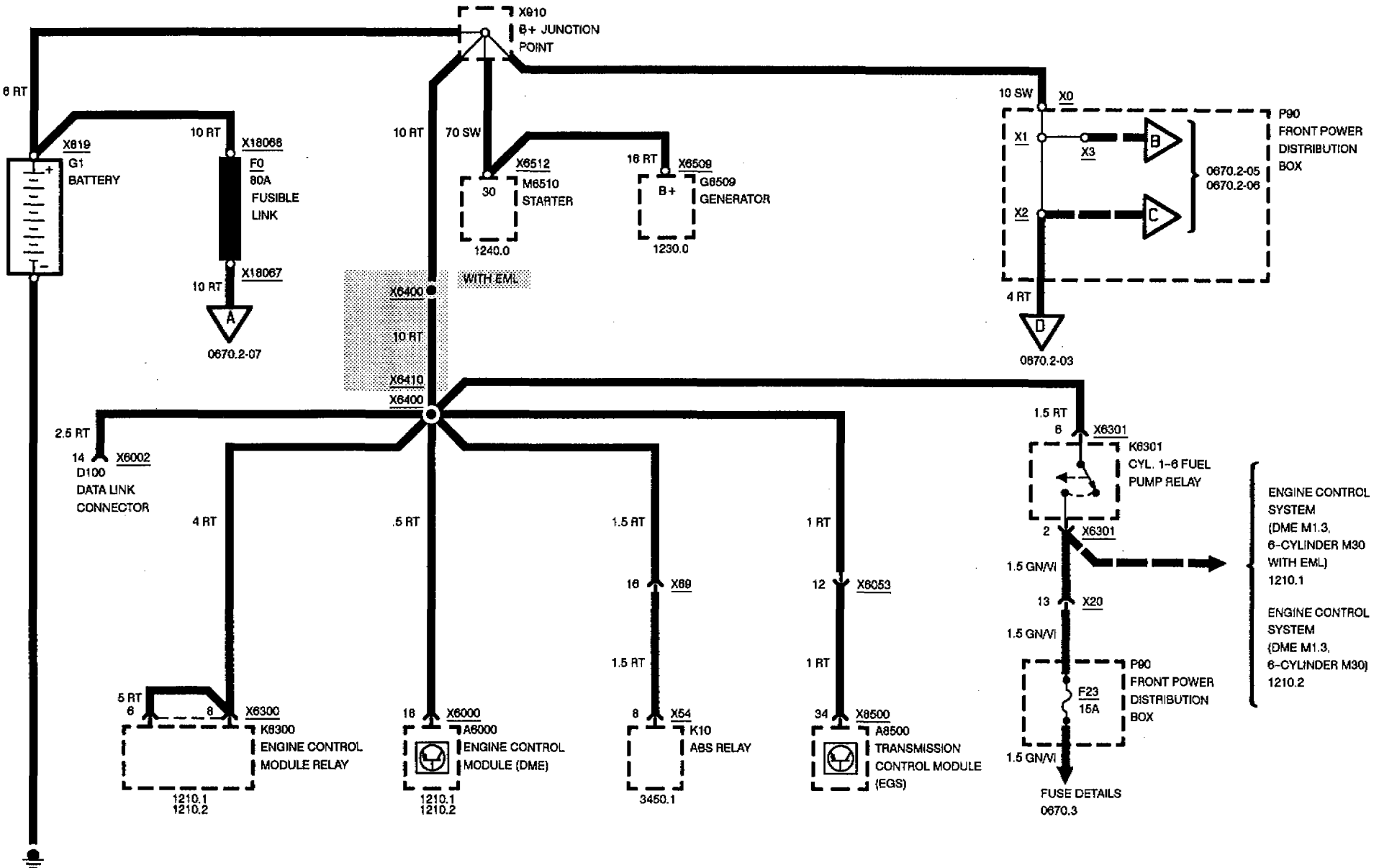
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FUSE CHART

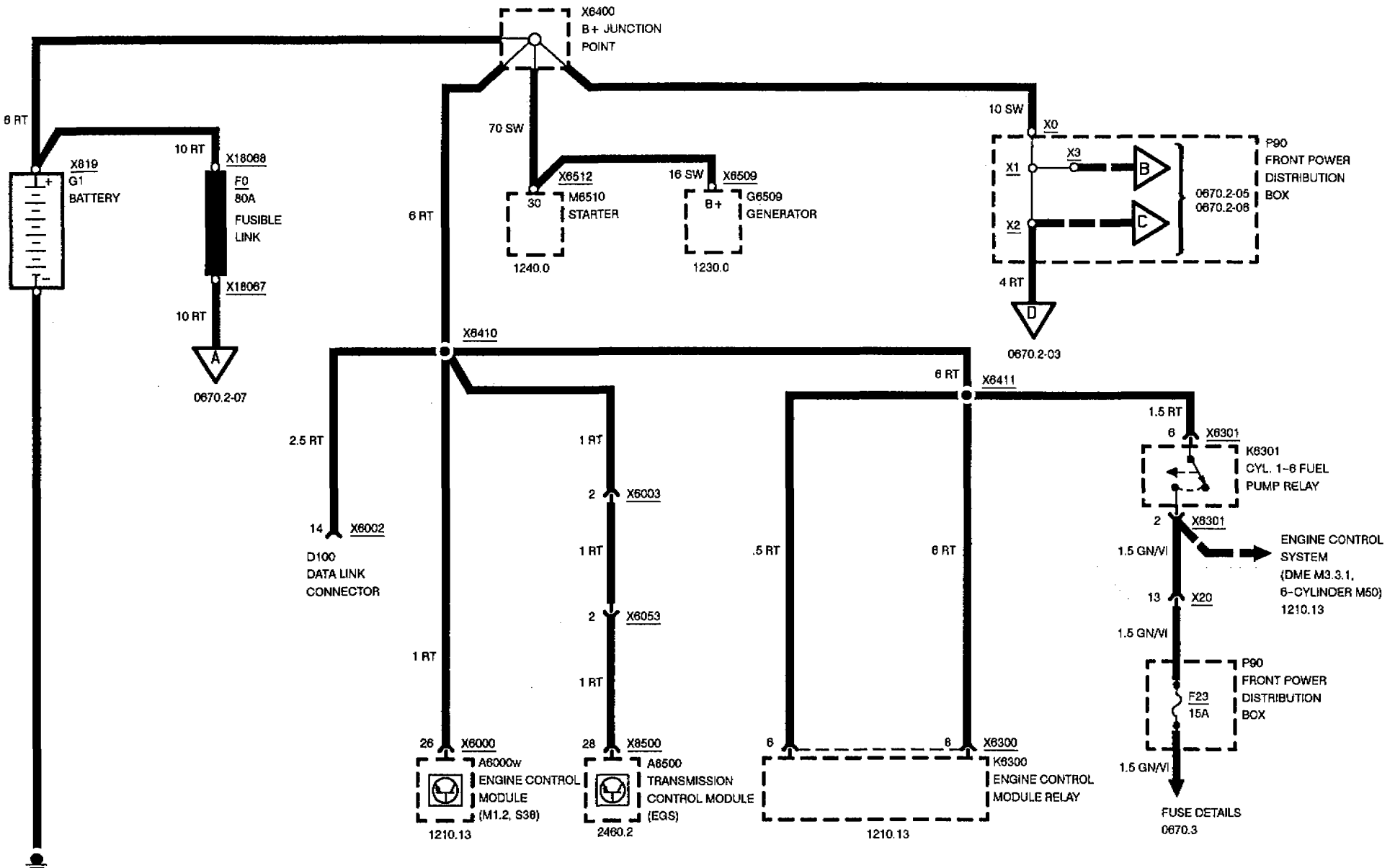
FUSES 30 TO 49

		FUSE NUMBER																															
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49												
		10A		7.5A	7.5A	30A	30A	30A	30A			7.5A	30A	30A	30A	20A																	
6325.0	BRAKE LIGHTS																																
6330.0	ZKE INTERIOR LIGHTS CONTROL (IB)			●																													
6332.0	INTERIOR ACCESSORIES																																
6350.0	CRASH CONTROL MODULE																																
6412.19	PARK VENTILATION WITH IHKR/F3																																
6424.0	REAR WINDOW DEFOGGER						●																										
6450.5	INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)																																
6454.0	AUXILIARY FAN																																
6510.1	RADIO/HIFI							●																									
6510.2	RADIO PROVISIONS							●																									
6561.0	CELLULAR TELEPHONE (PROVISIONS)											●																					
6571.0	CRUISE CONTROL (TEMPOMAT)																																
6575.2	ANTI-THEFT SYSTEM (ALPINE)								●																								
6581.0	ON-BOARD COMPUTER (BCIV)																																

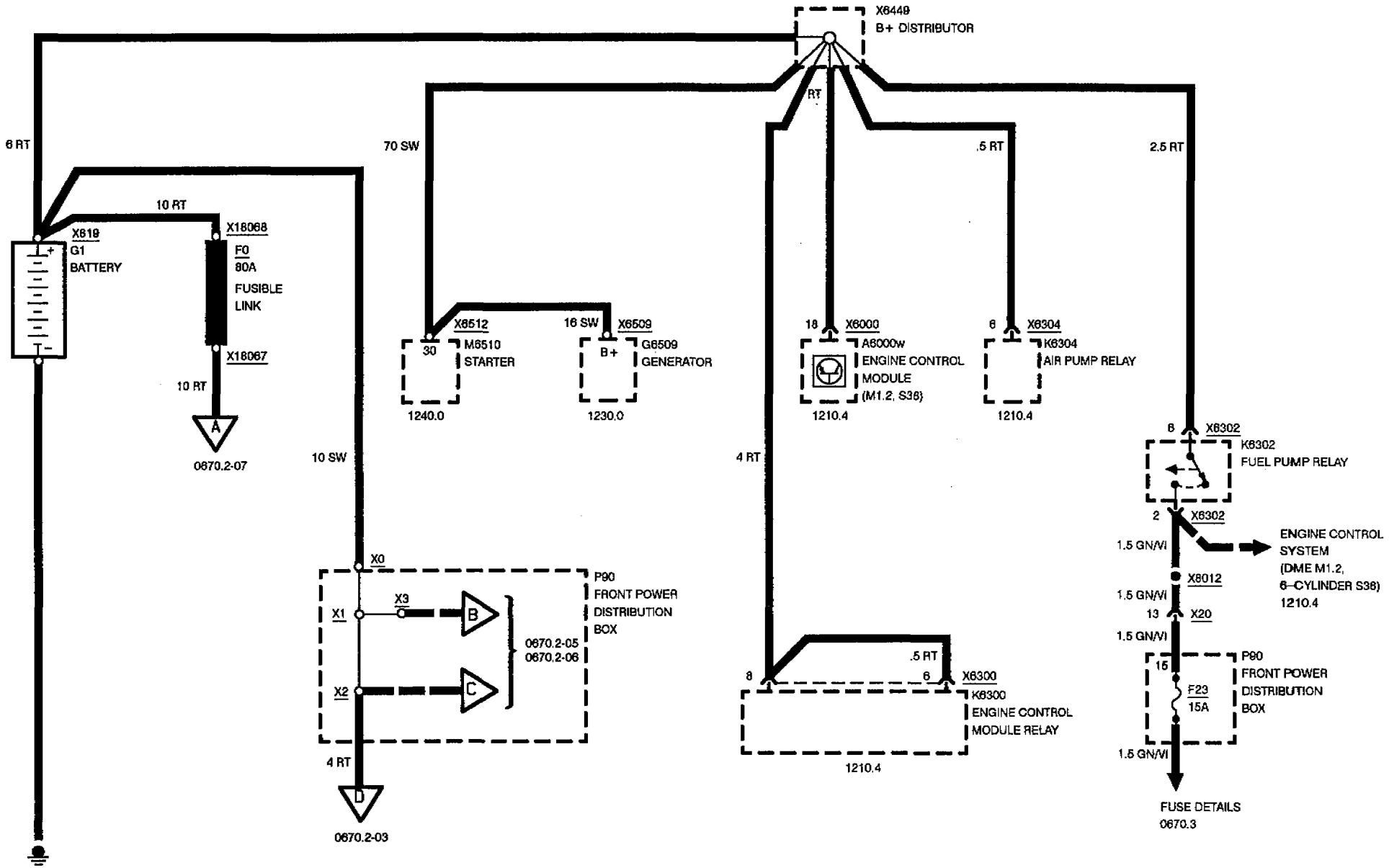
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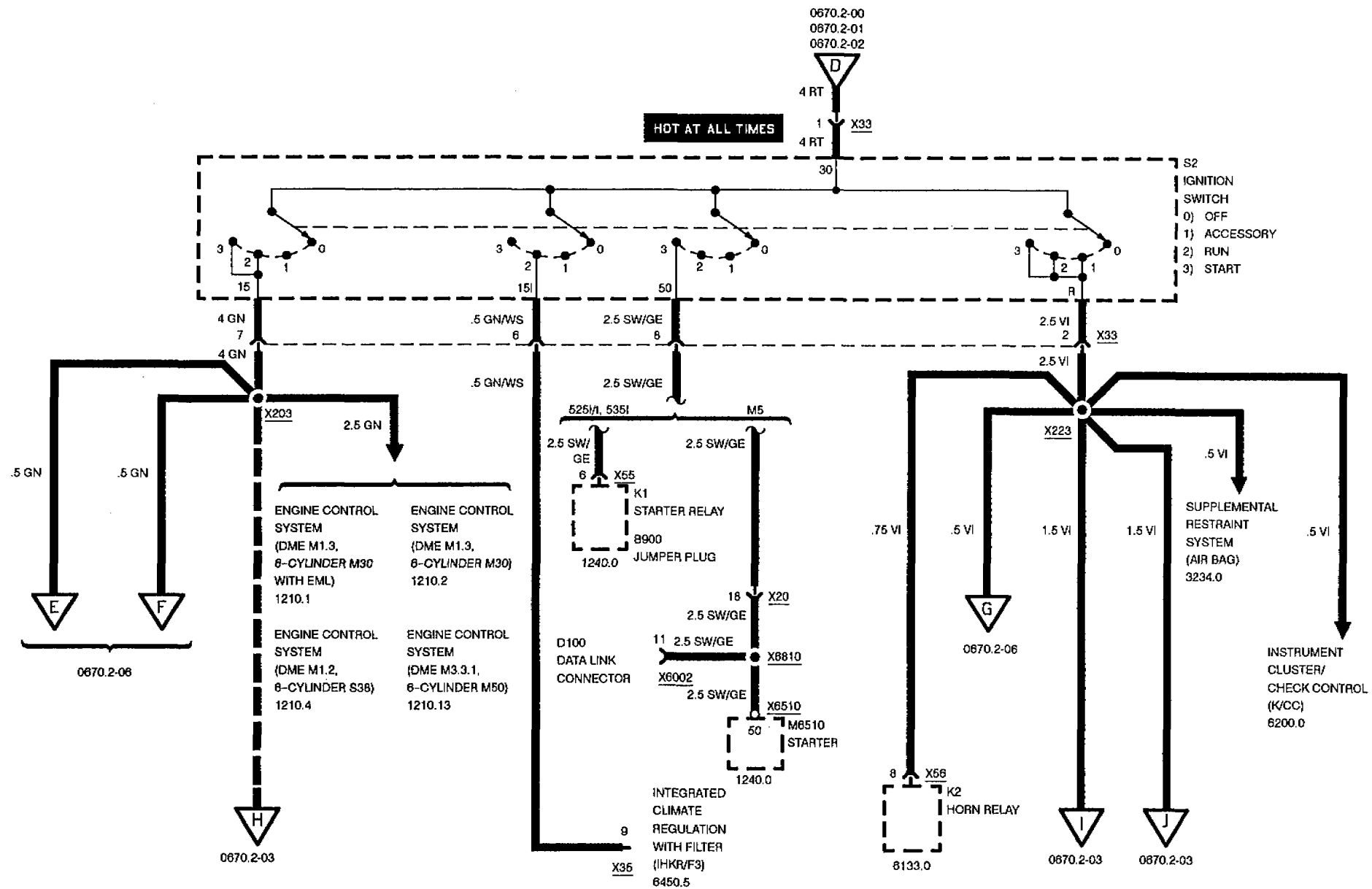
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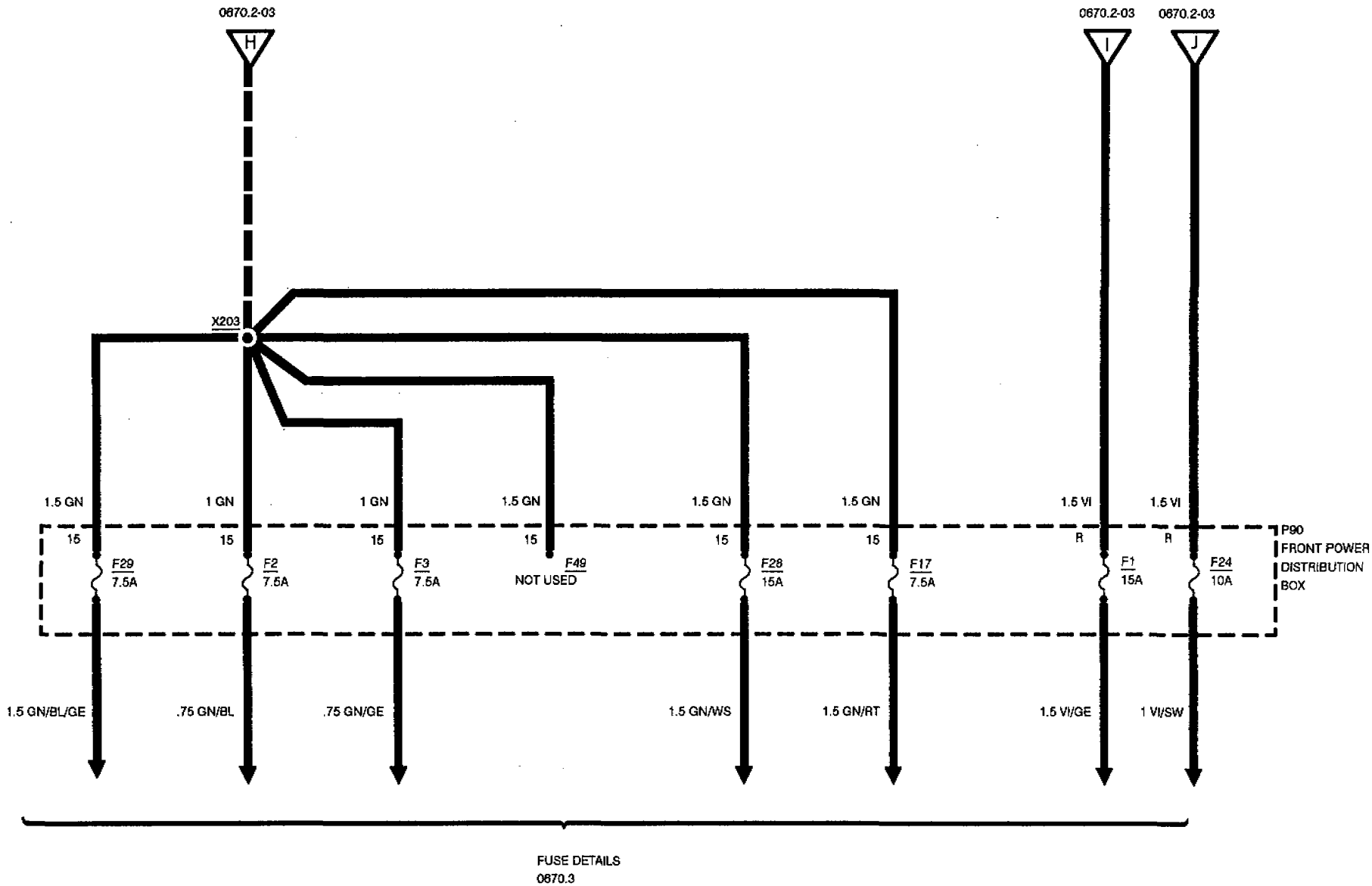
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POWER DISTRIBUTION

FRONT POWER DISTRIBUTION BOX



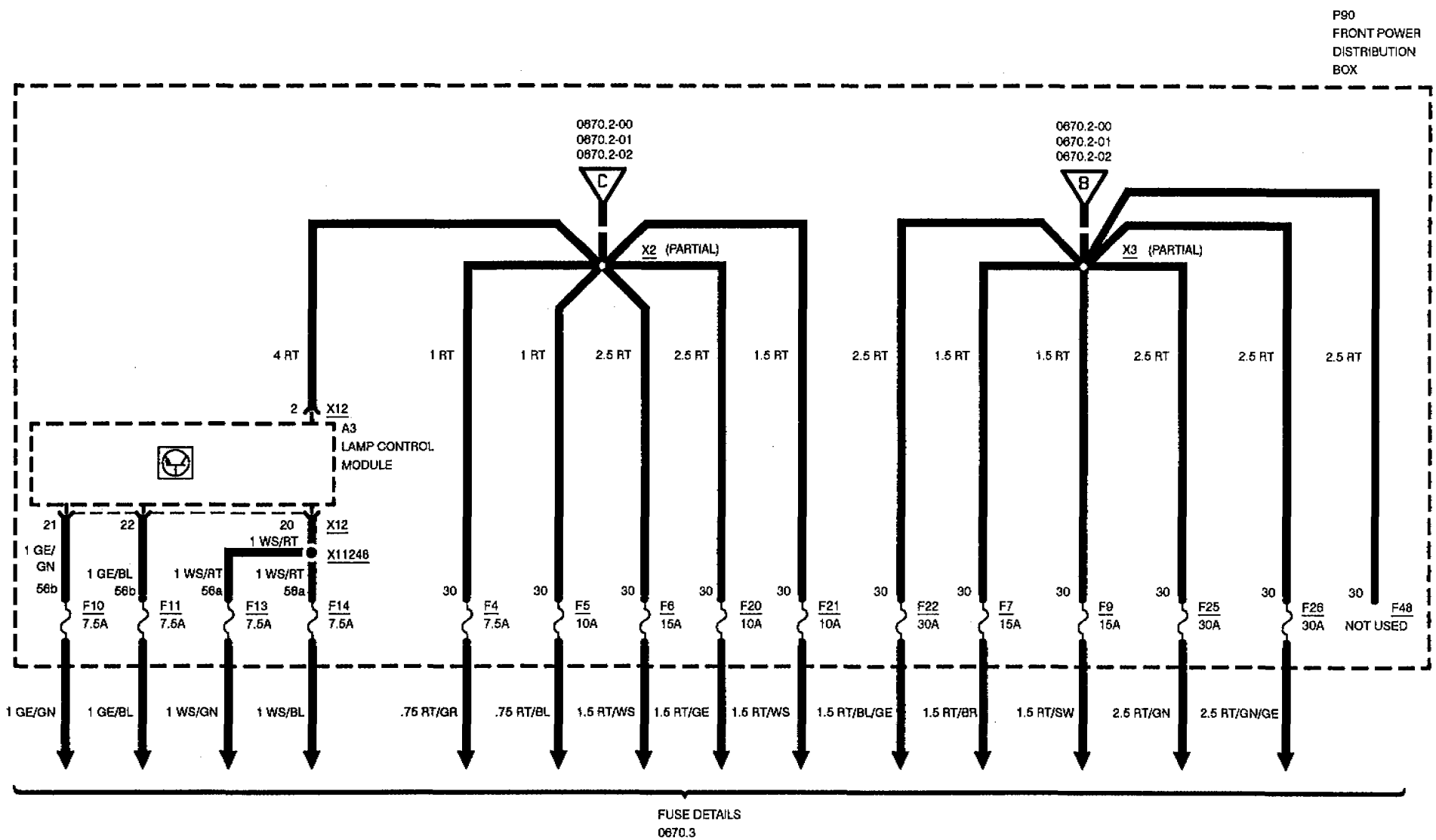
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POWER DISTRIBUTION

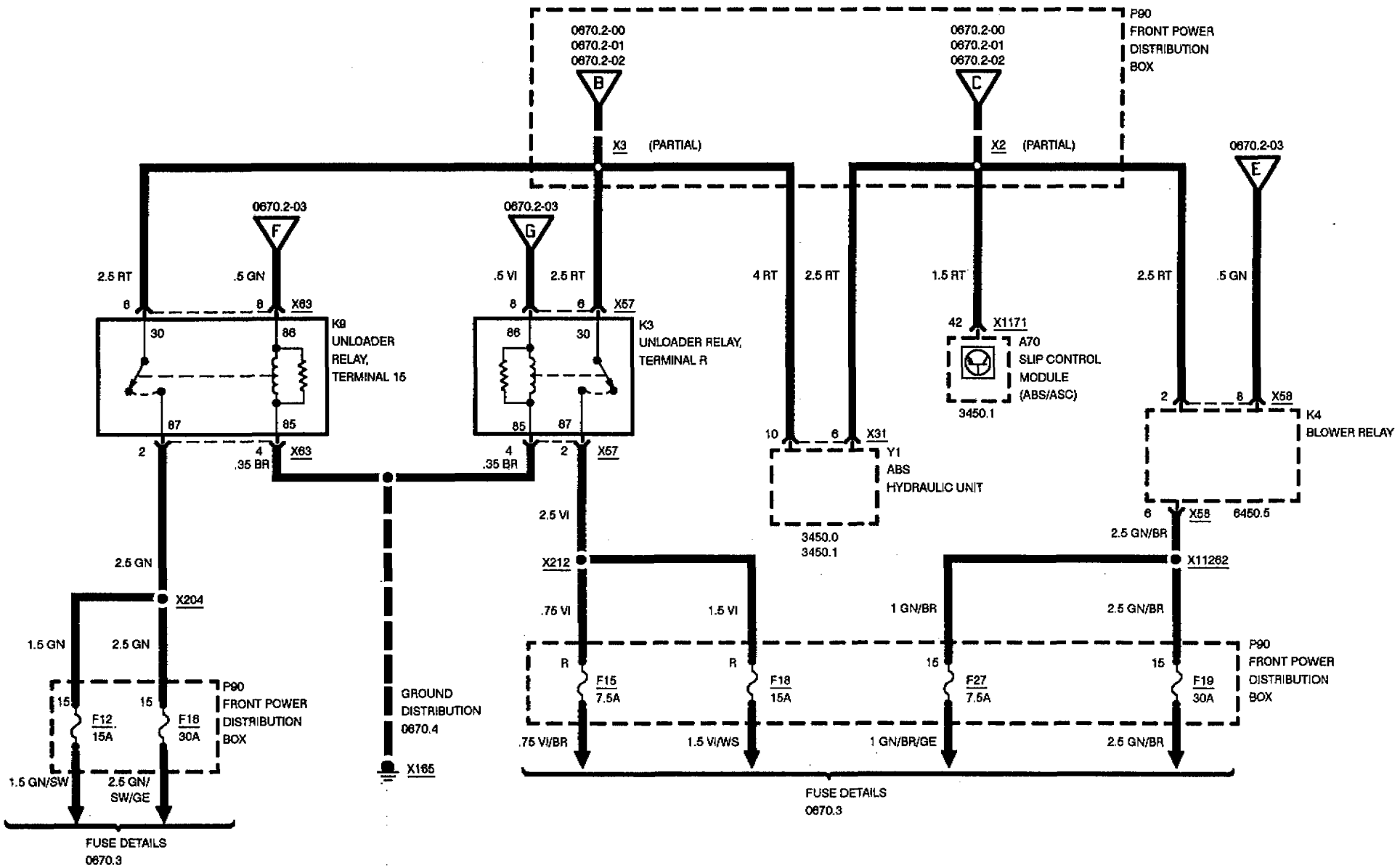
FRONT POWER DISTRIBUTION BOX



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POWER DISTRIBUTION

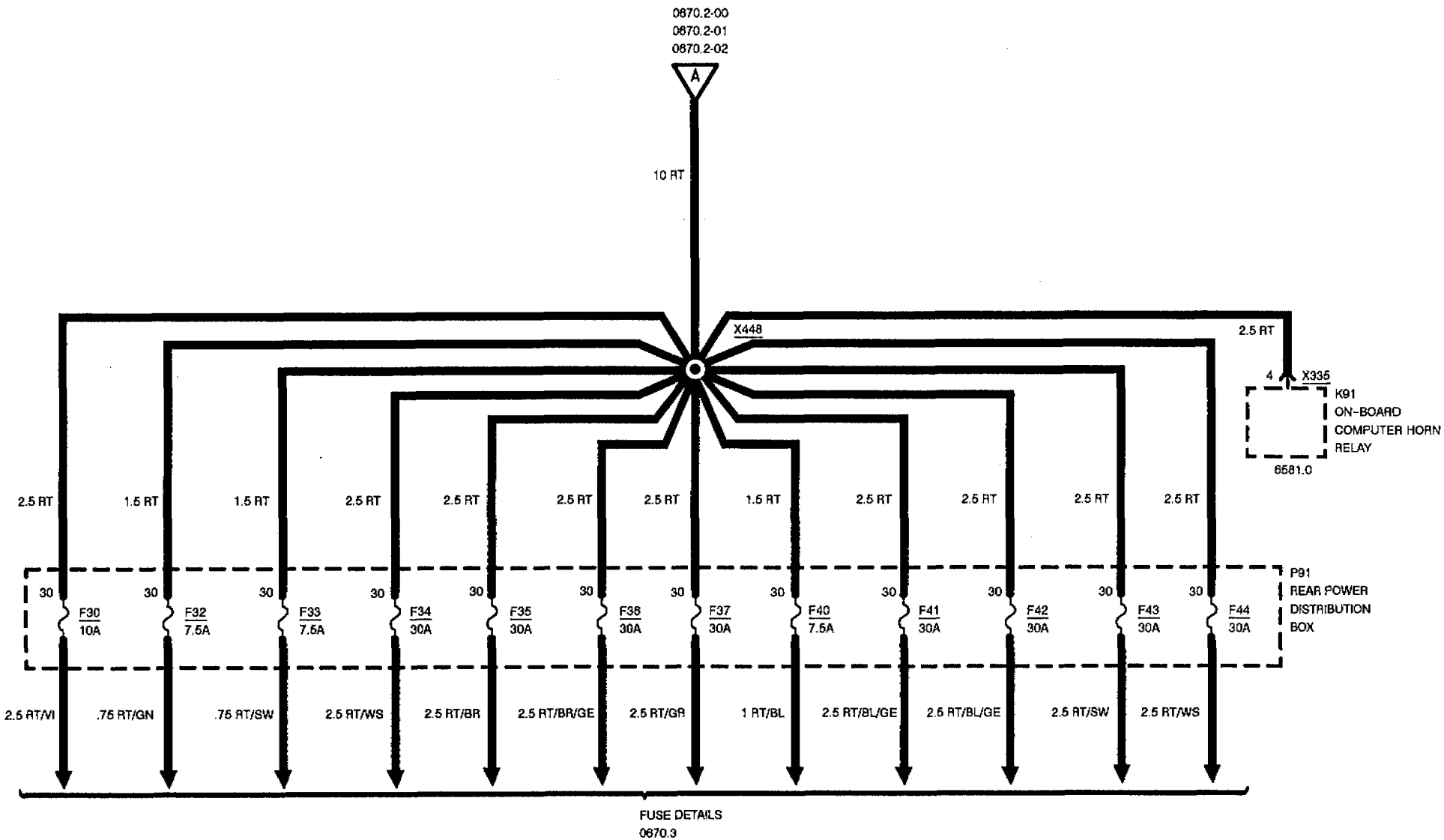
FRONT POWER DISTRIBUTION BOX



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POWER DISTRIBUTION

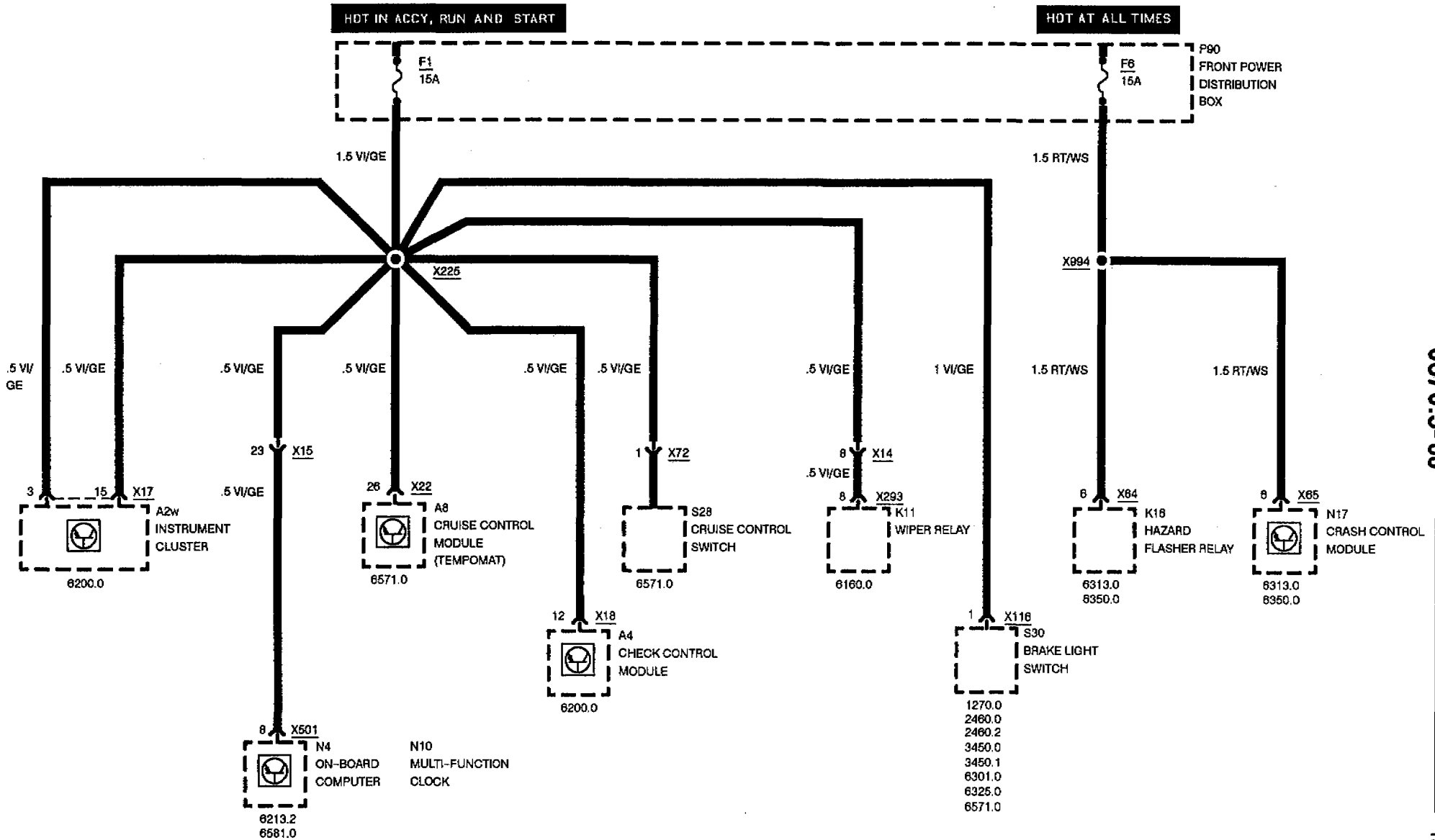
REAR POWER DISTRIBUTION BOX



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FUSE DETAILS

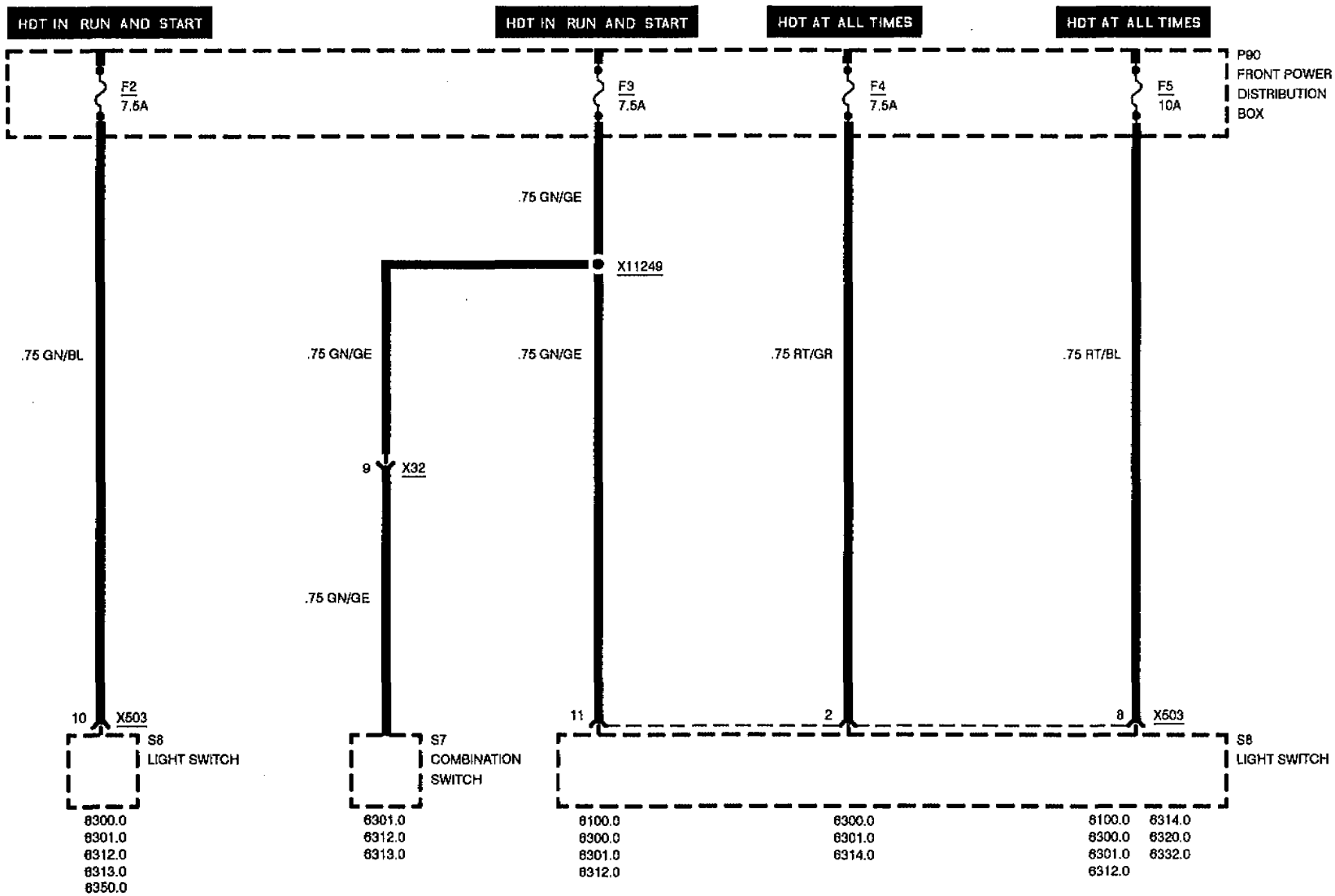
FUSES 1 AND 6



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FUSE DETAILS

FUSES 2, 3, 4, AND 5

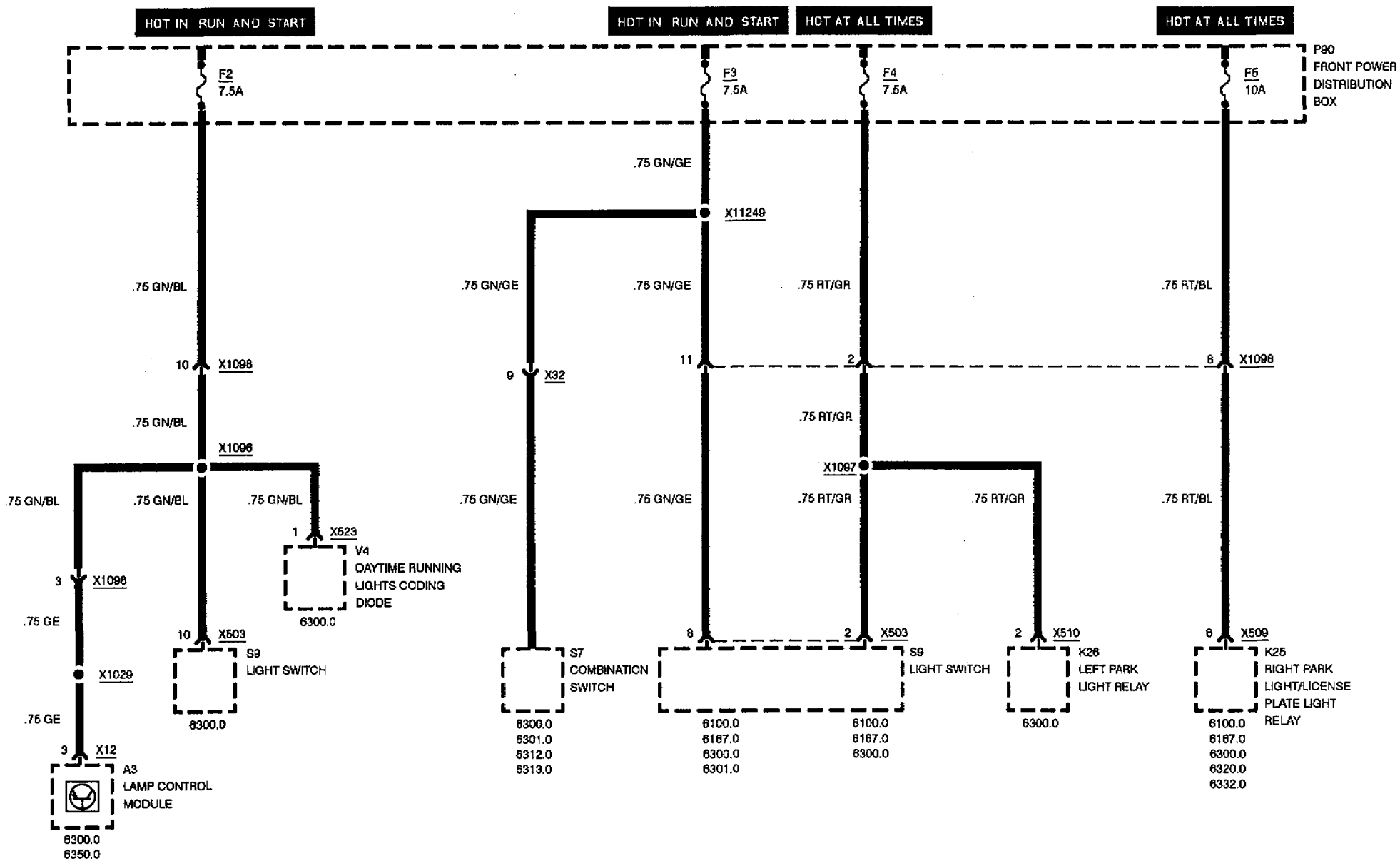


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FUSE DETAILS

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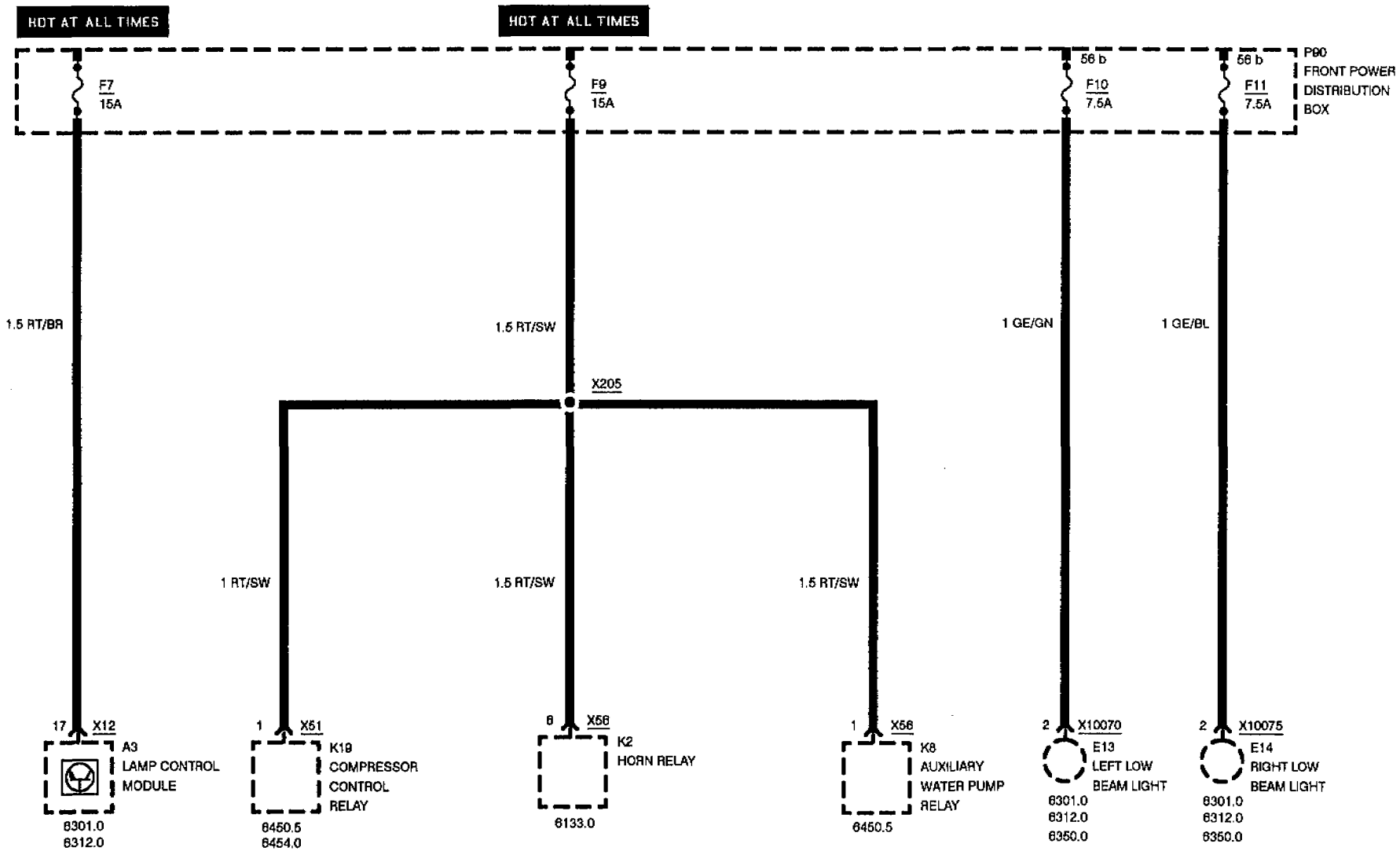
FUSES 2, 3, 4, AND 5



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FUSE DETAILS

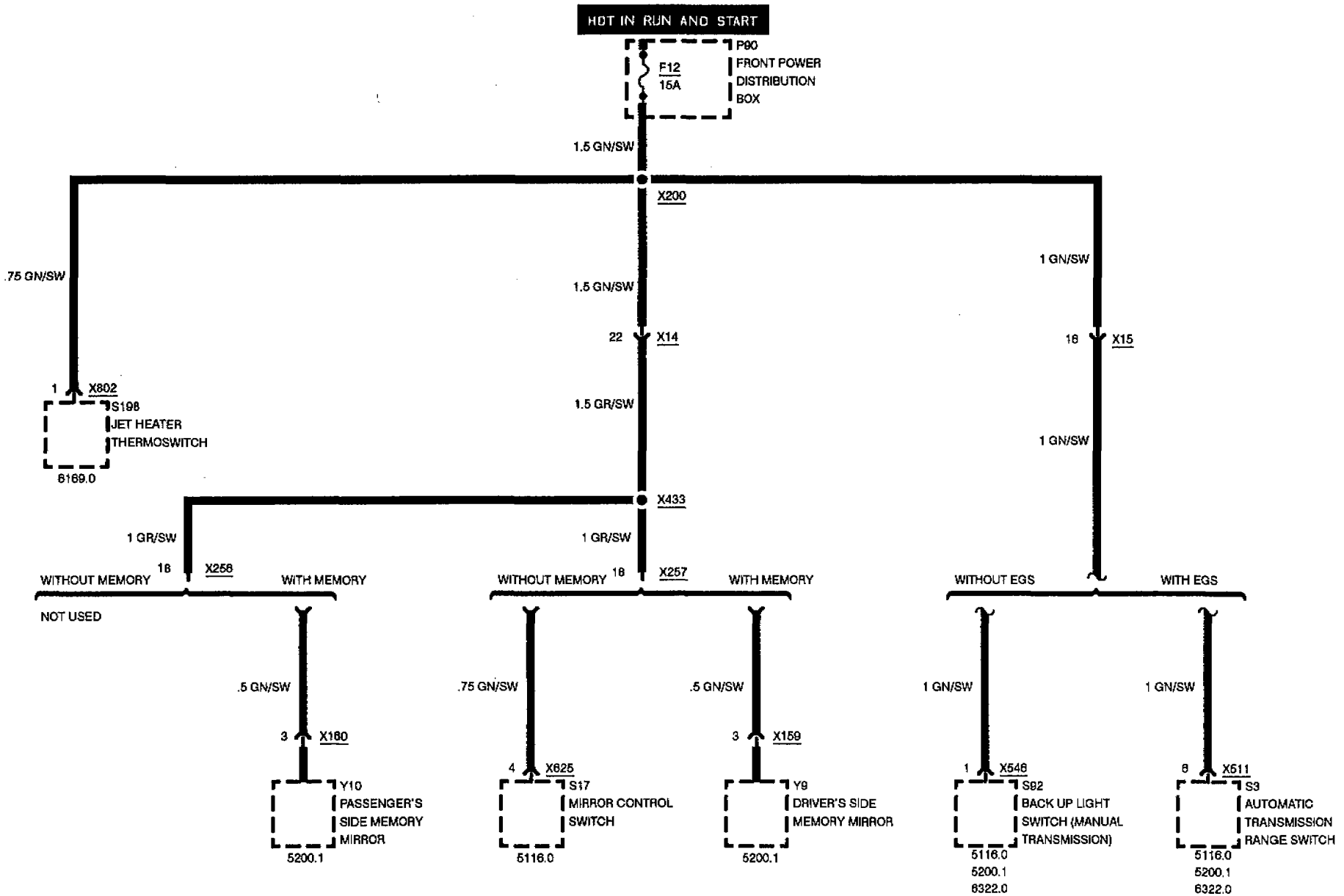
FUSES 7, 9, 10, AND 11



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FUSE DETAILS

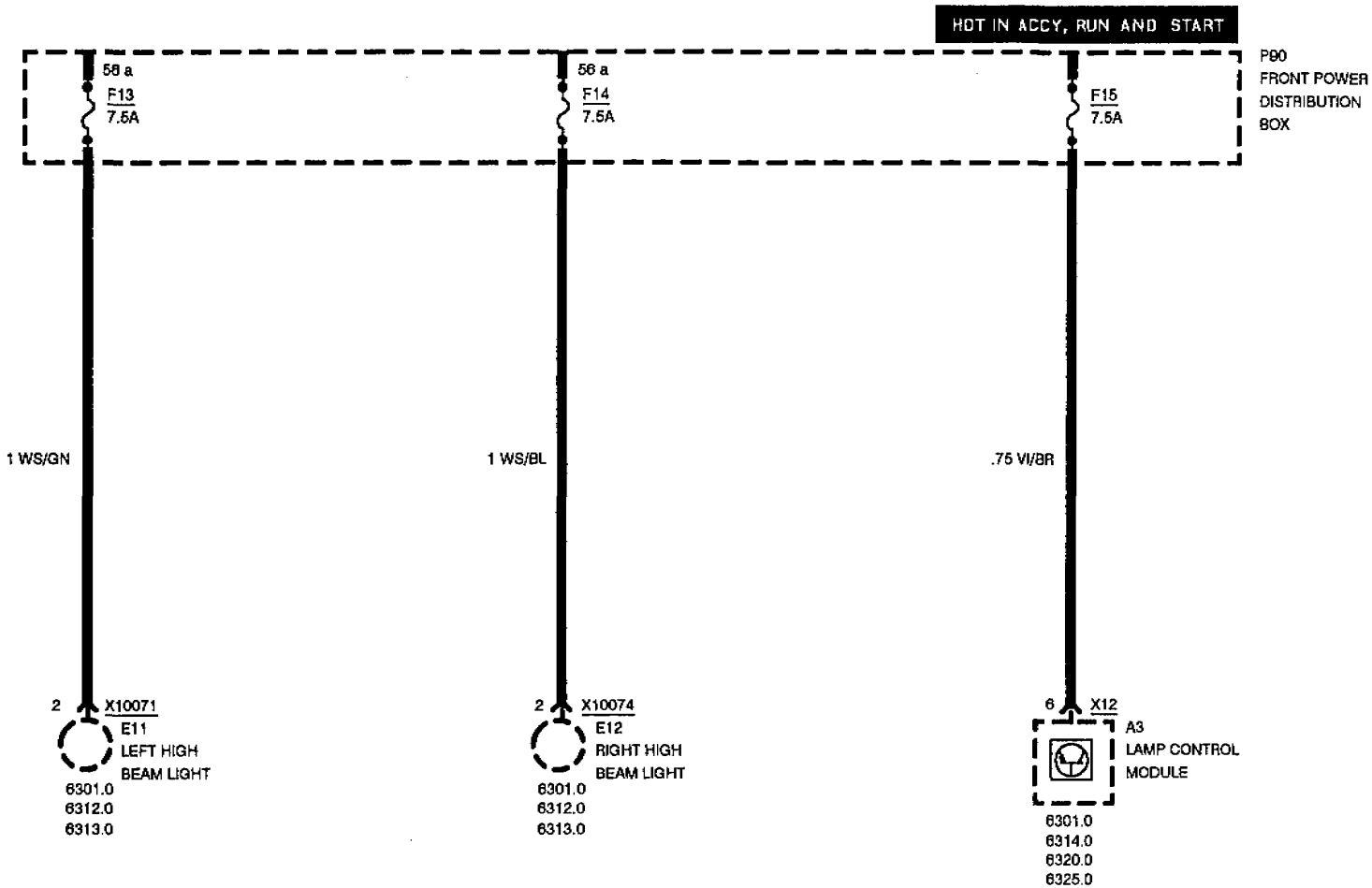
FUSE 12



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FUSE DETAILS

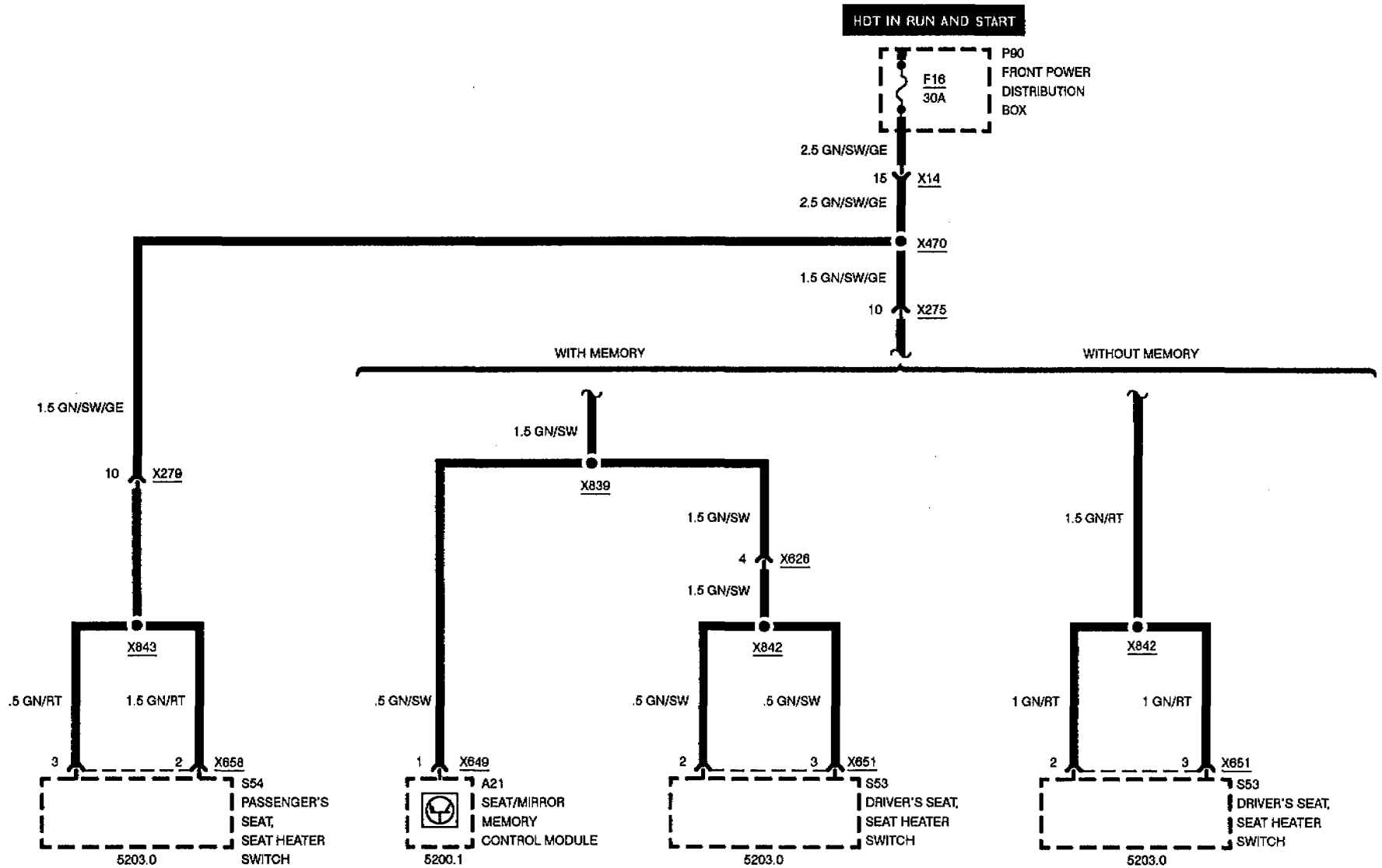
FUSES 13, 14, AND 15



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FUSE DETAILS

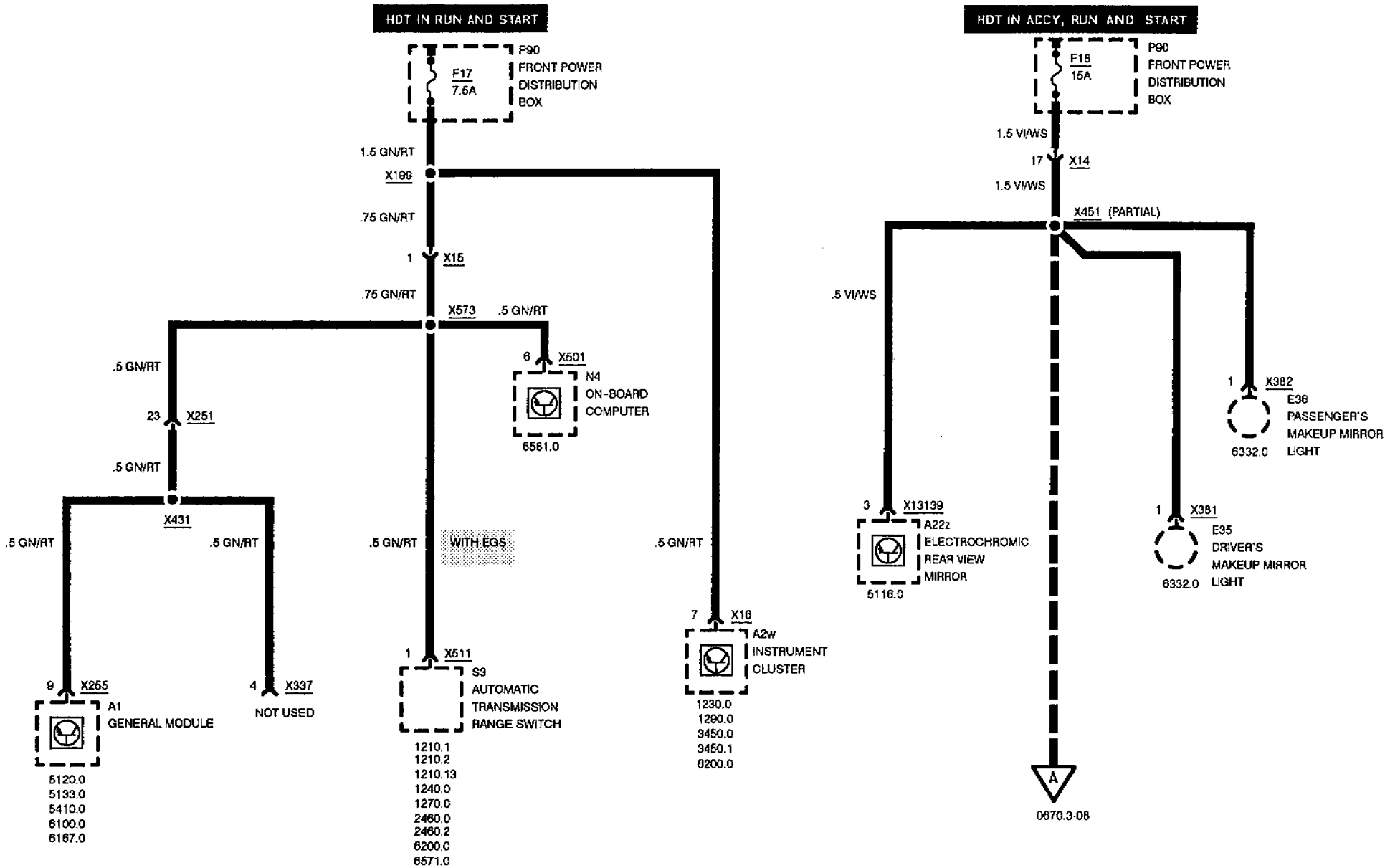
FUSE 16



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FUSE DETAILS

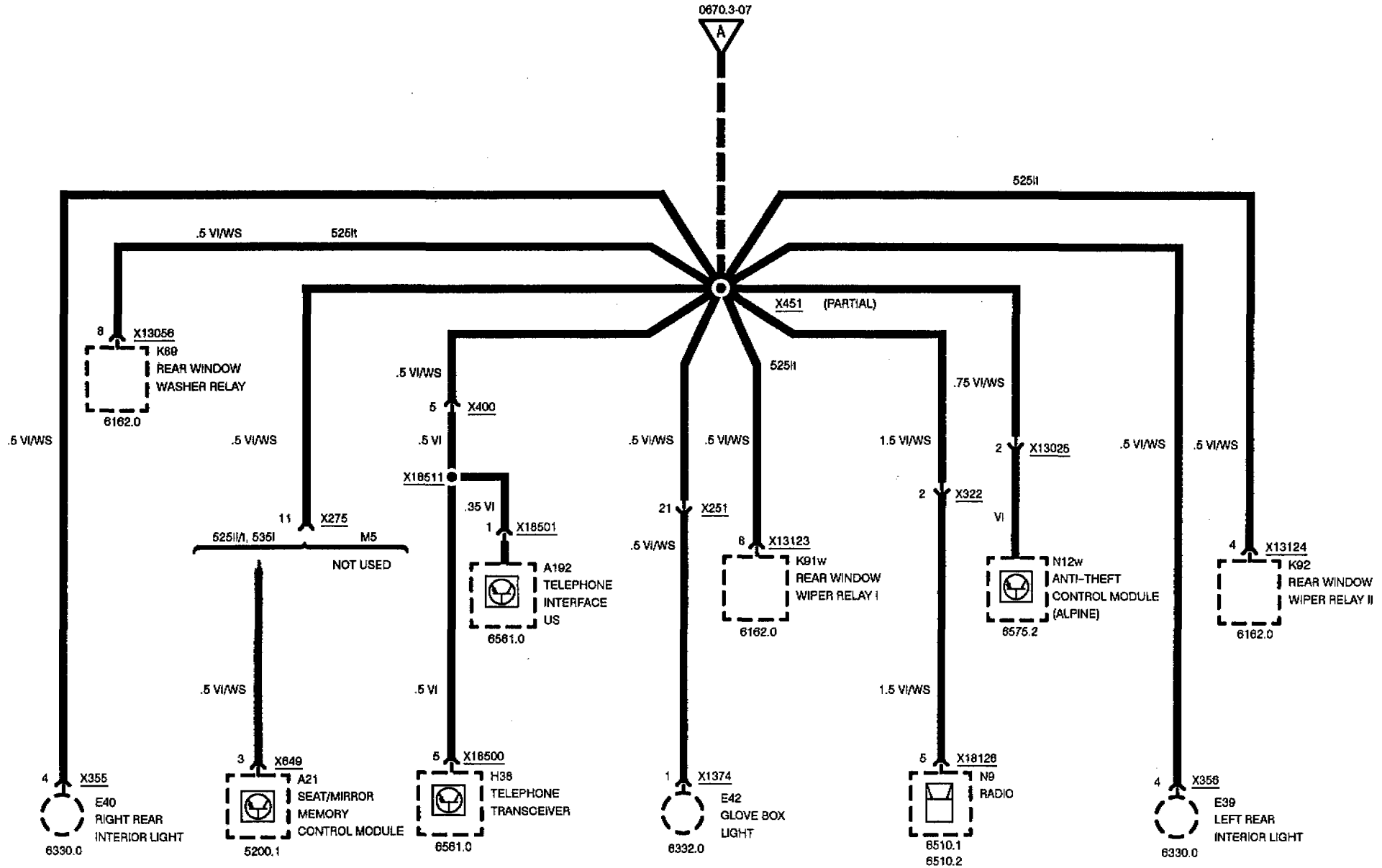
FUSES 17 AND 18



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FUSE DETAILS

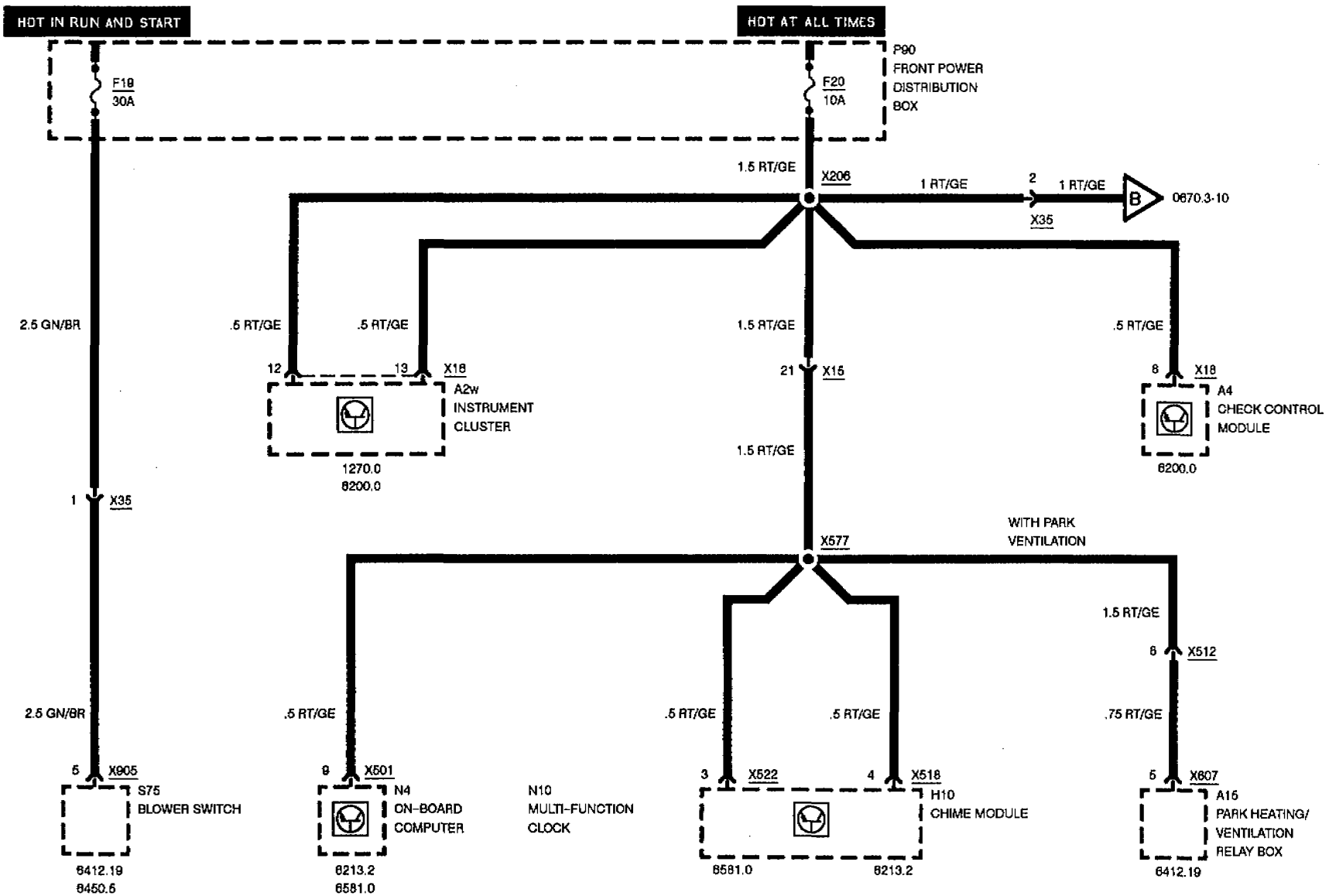
FUSE 18



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FUSE DETAILS

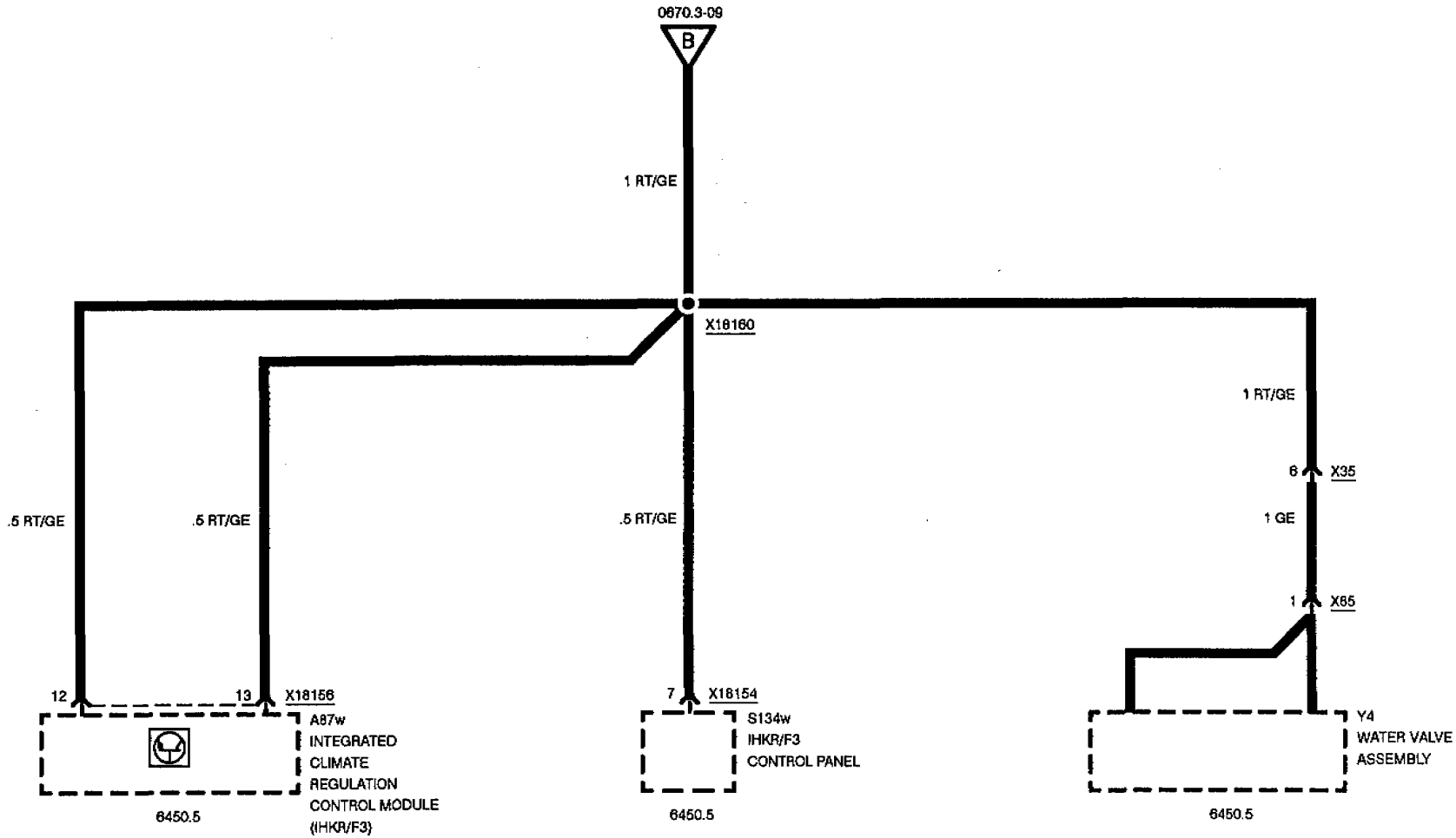
FUSES 19 AND 20



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FUSE DETAILS

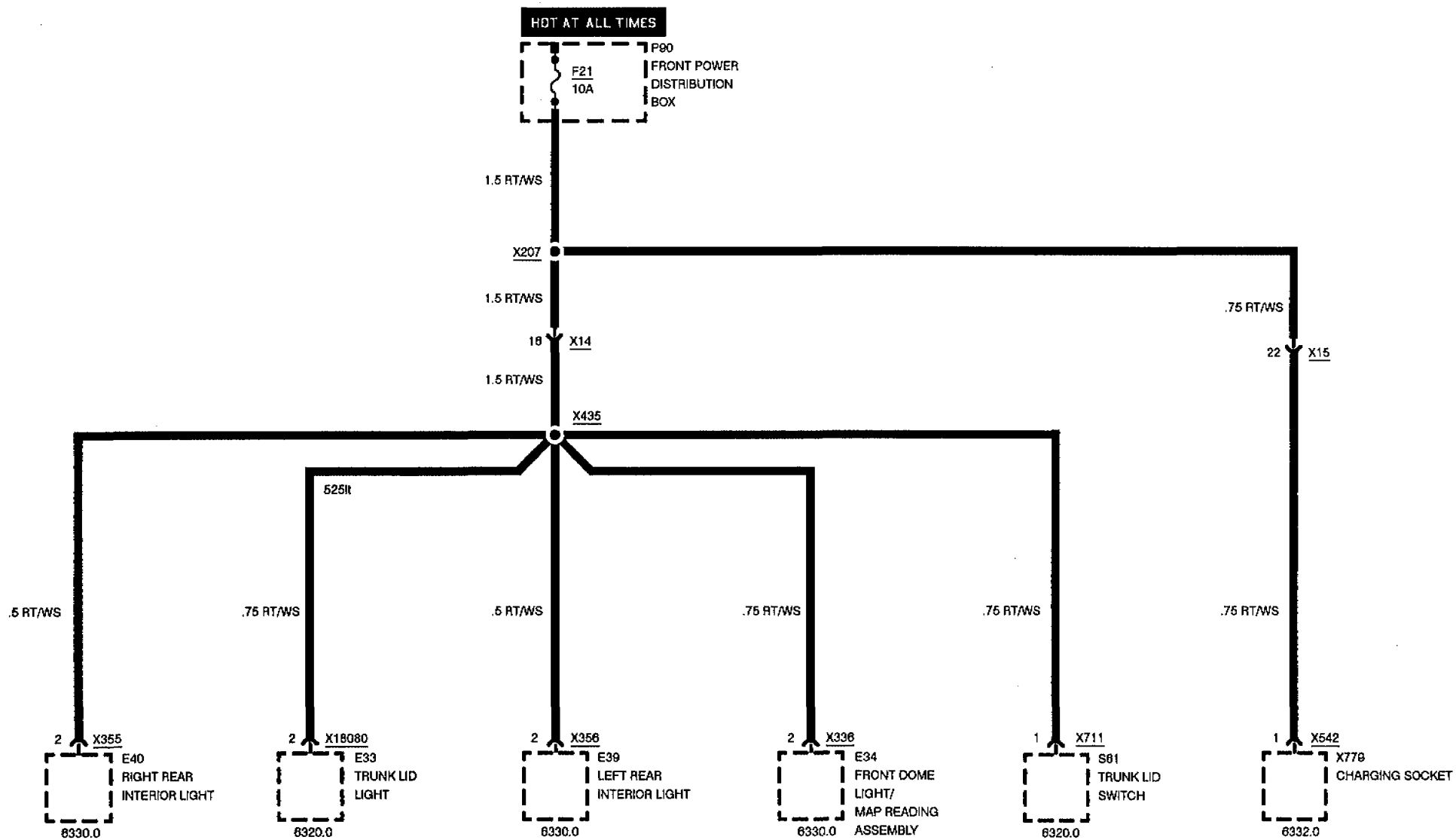
FUSE 20



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FUSE DETAILS

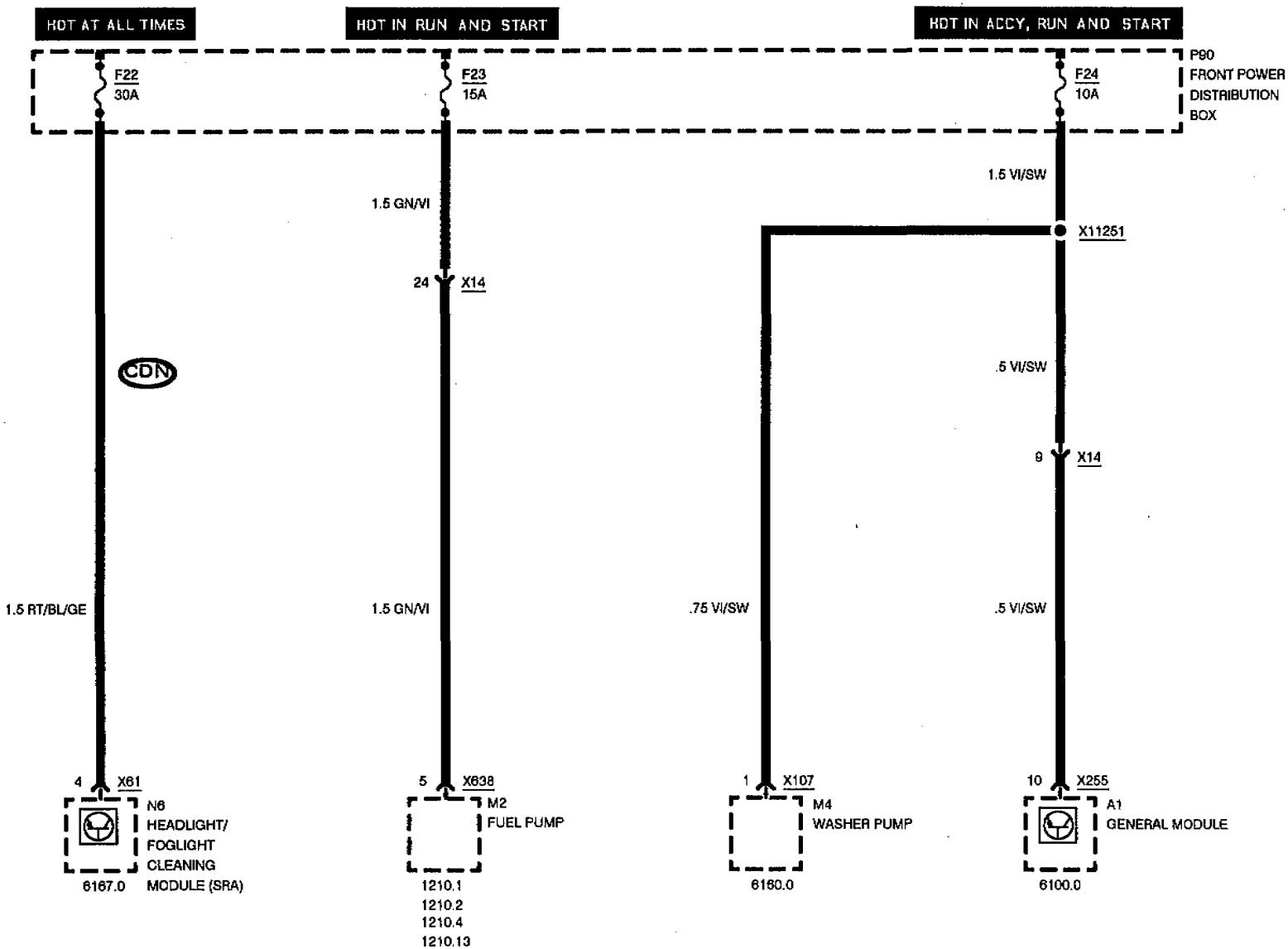
FUSE 21



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FUSE DETAILS

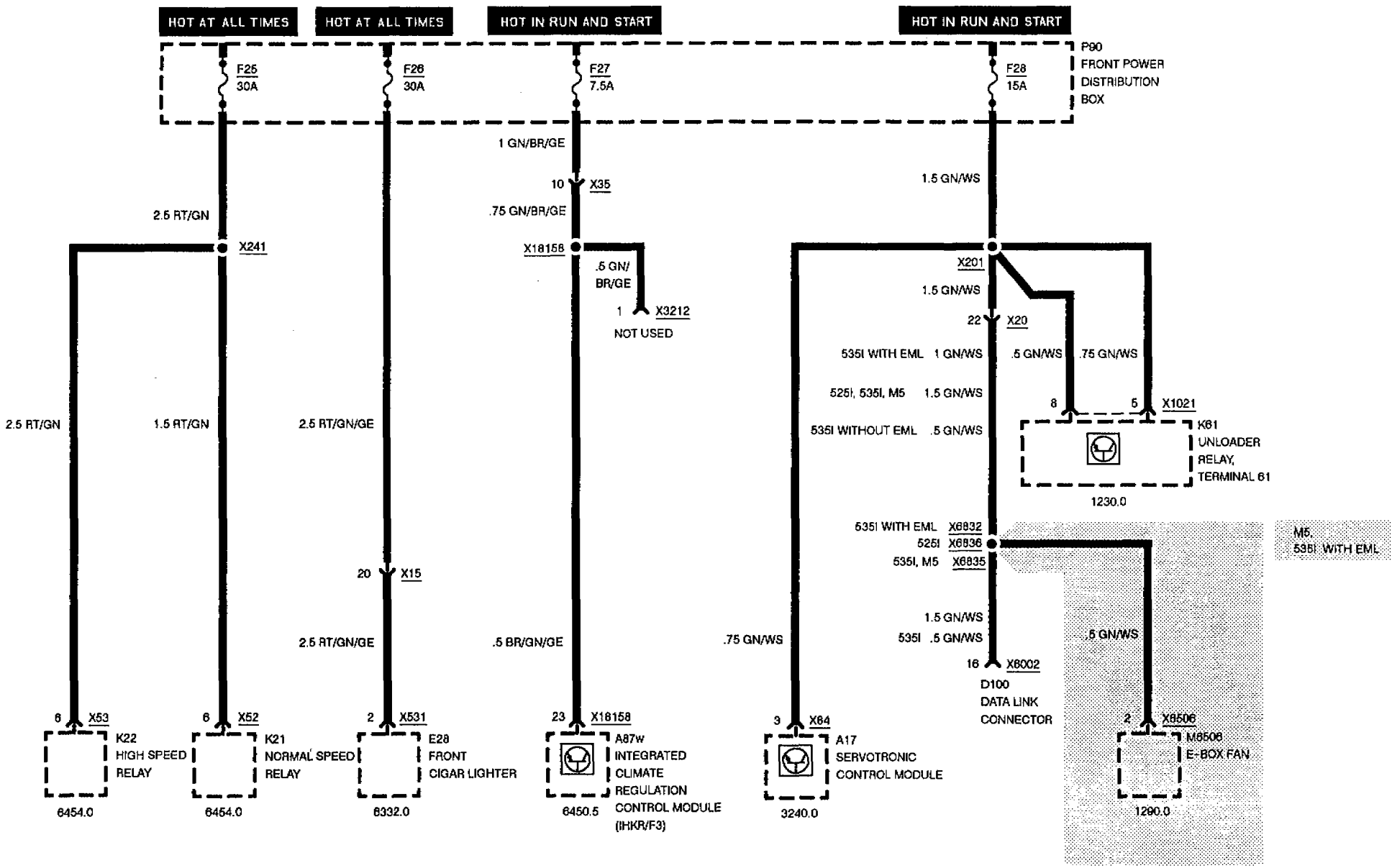
FUSES 22, 23, AND 24



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FUSE DETAILS

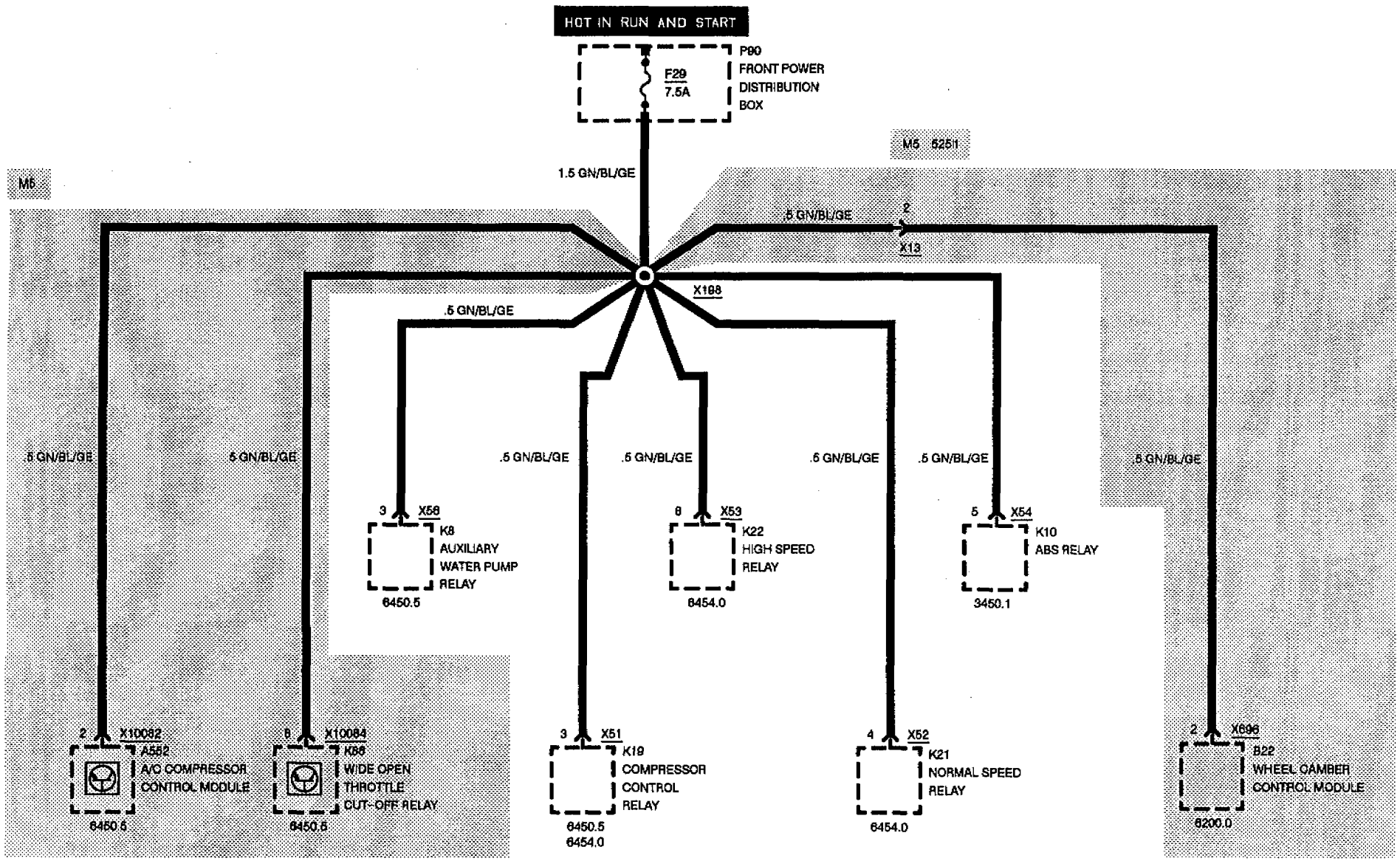
FUSES 25, 26, 27, AND 28



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FUSE DETAILS

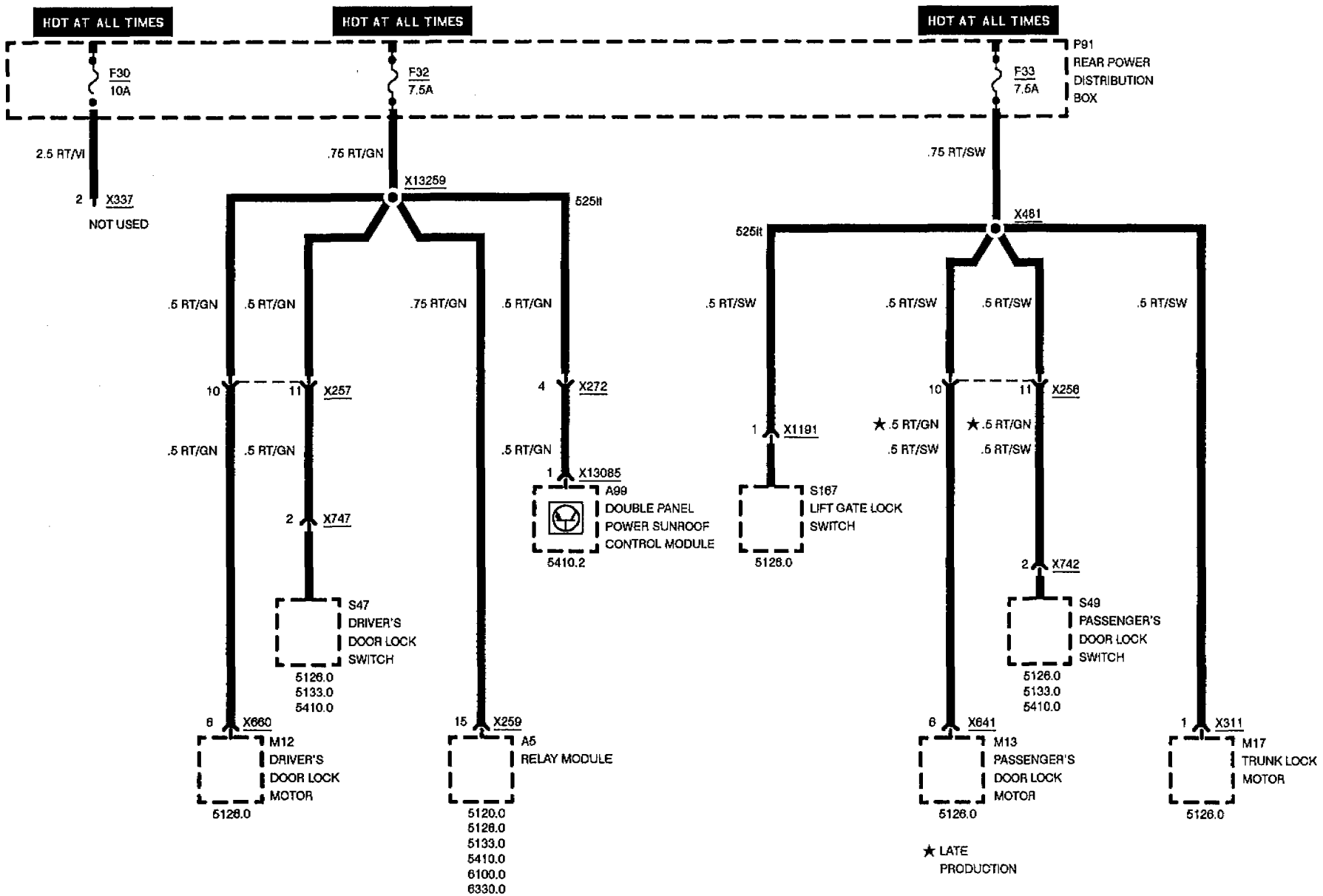
FUSE 29



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FUSE DETAILS

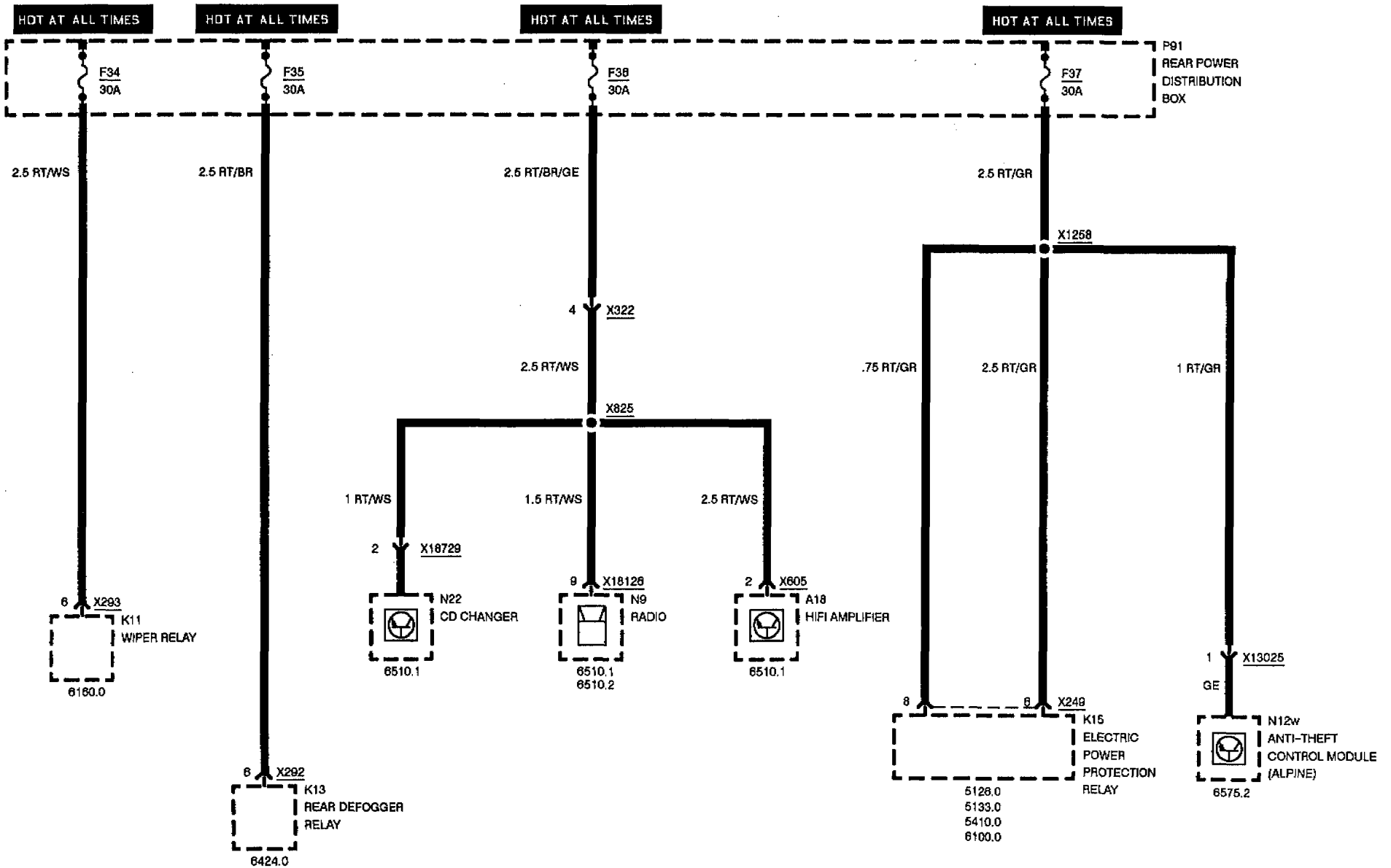
FUSES 30, 32, AND 33



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FUSE DETAILS

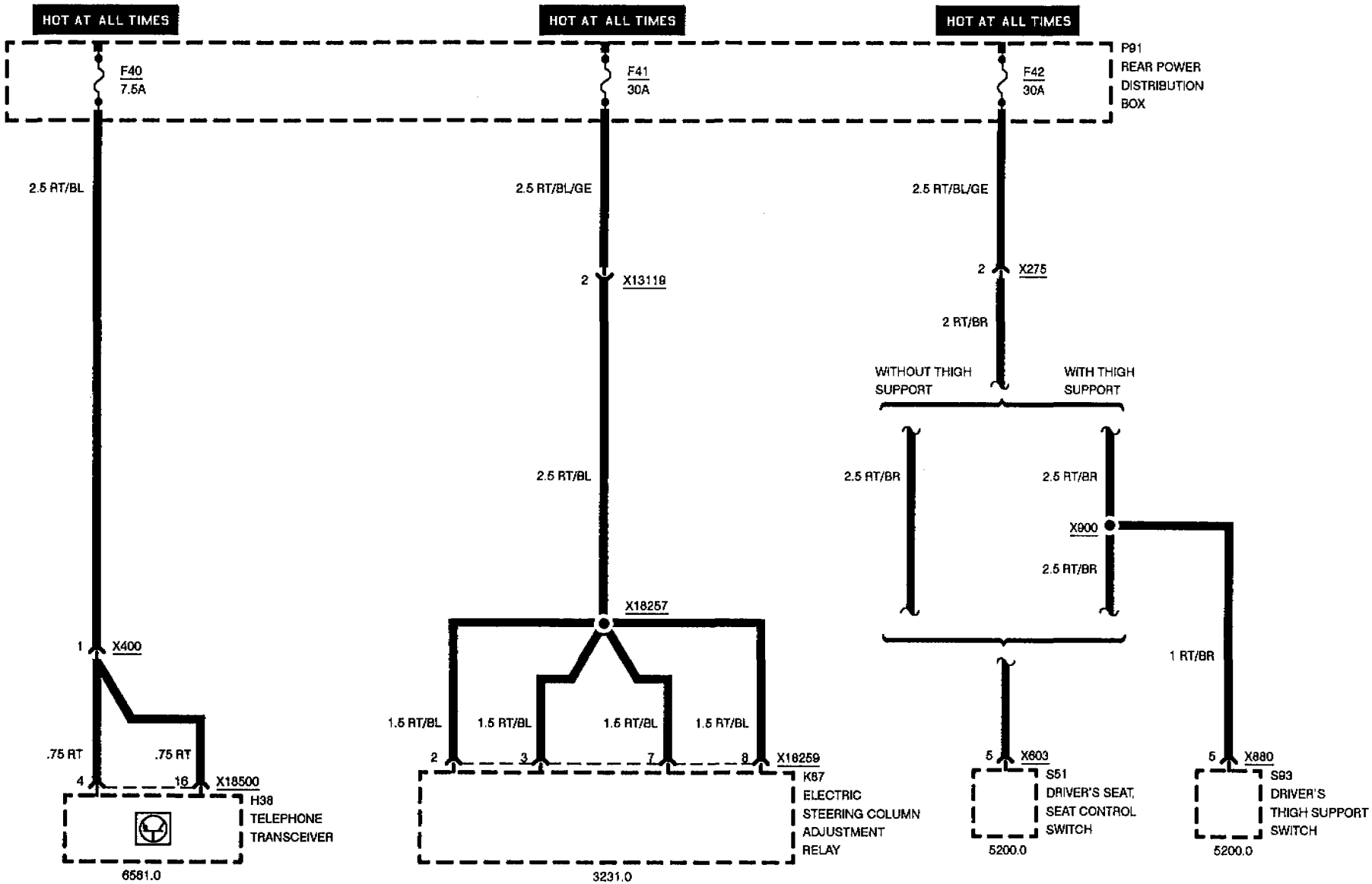
FUSES 34, 35, 36, AND 37



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FUSE DETAILS

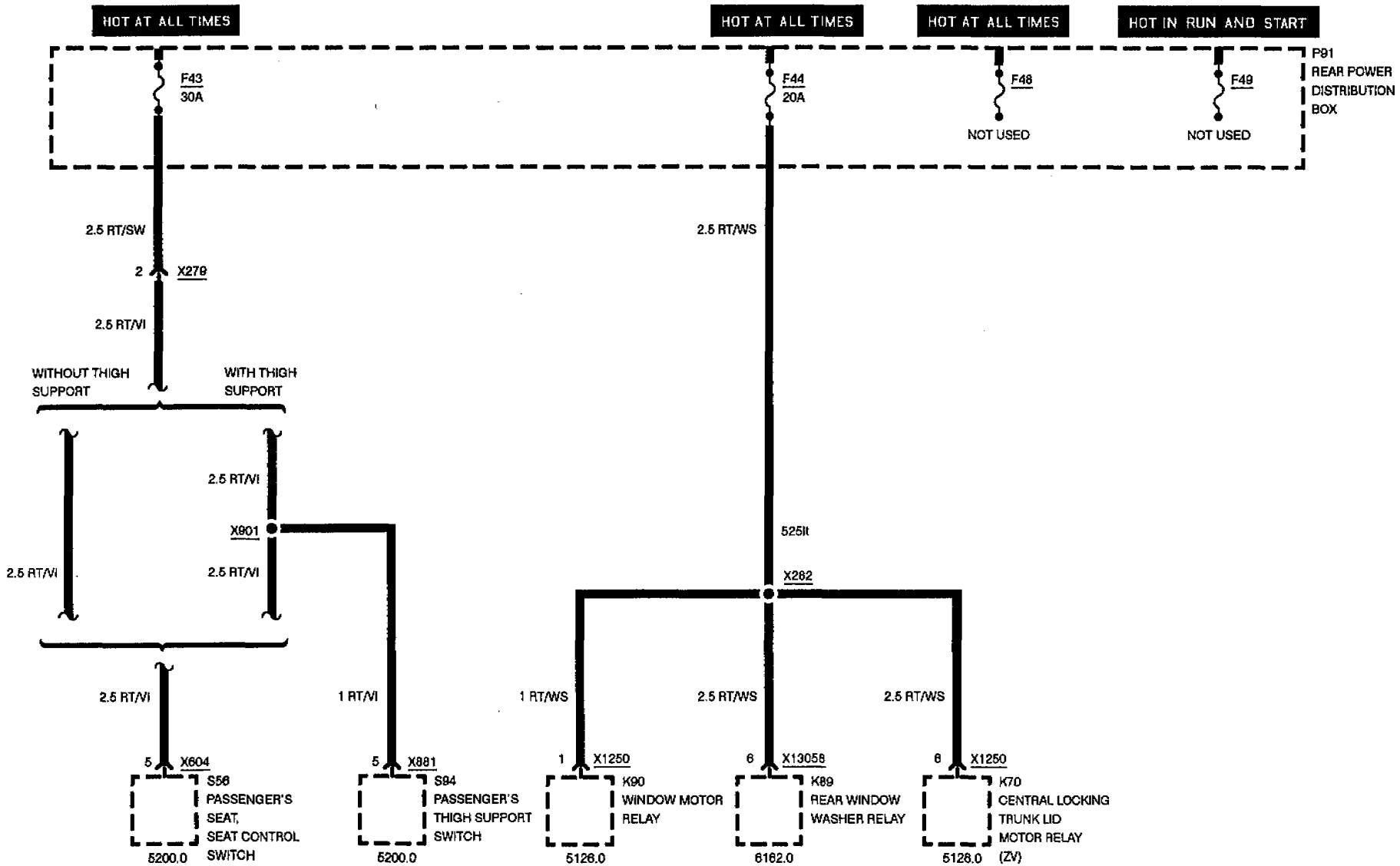
FUSES 40, 41, AND 42



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FUSE DETAILS

FUSES 43, 44, 48, AND 49

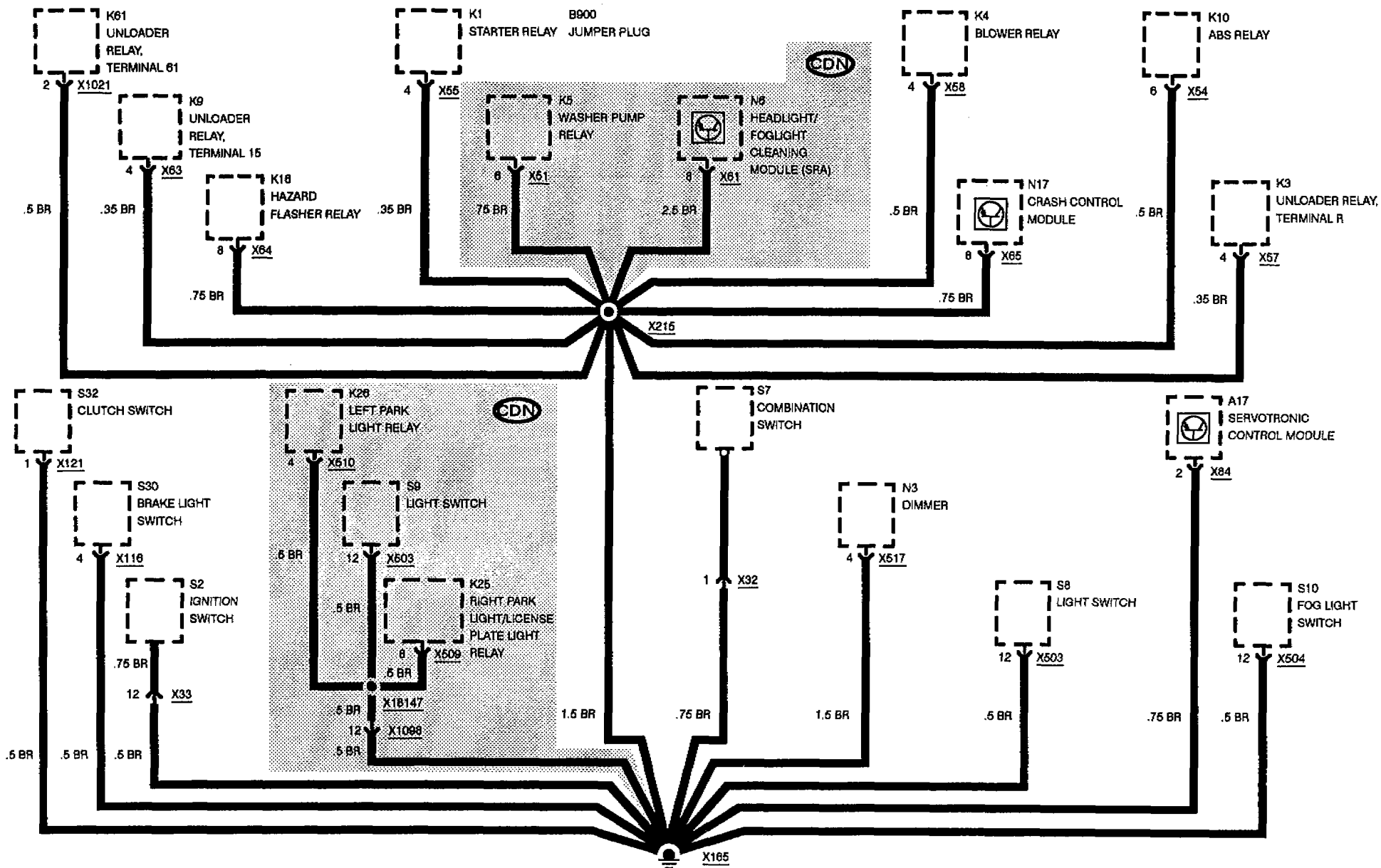


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GROUND DISTRIBUTION

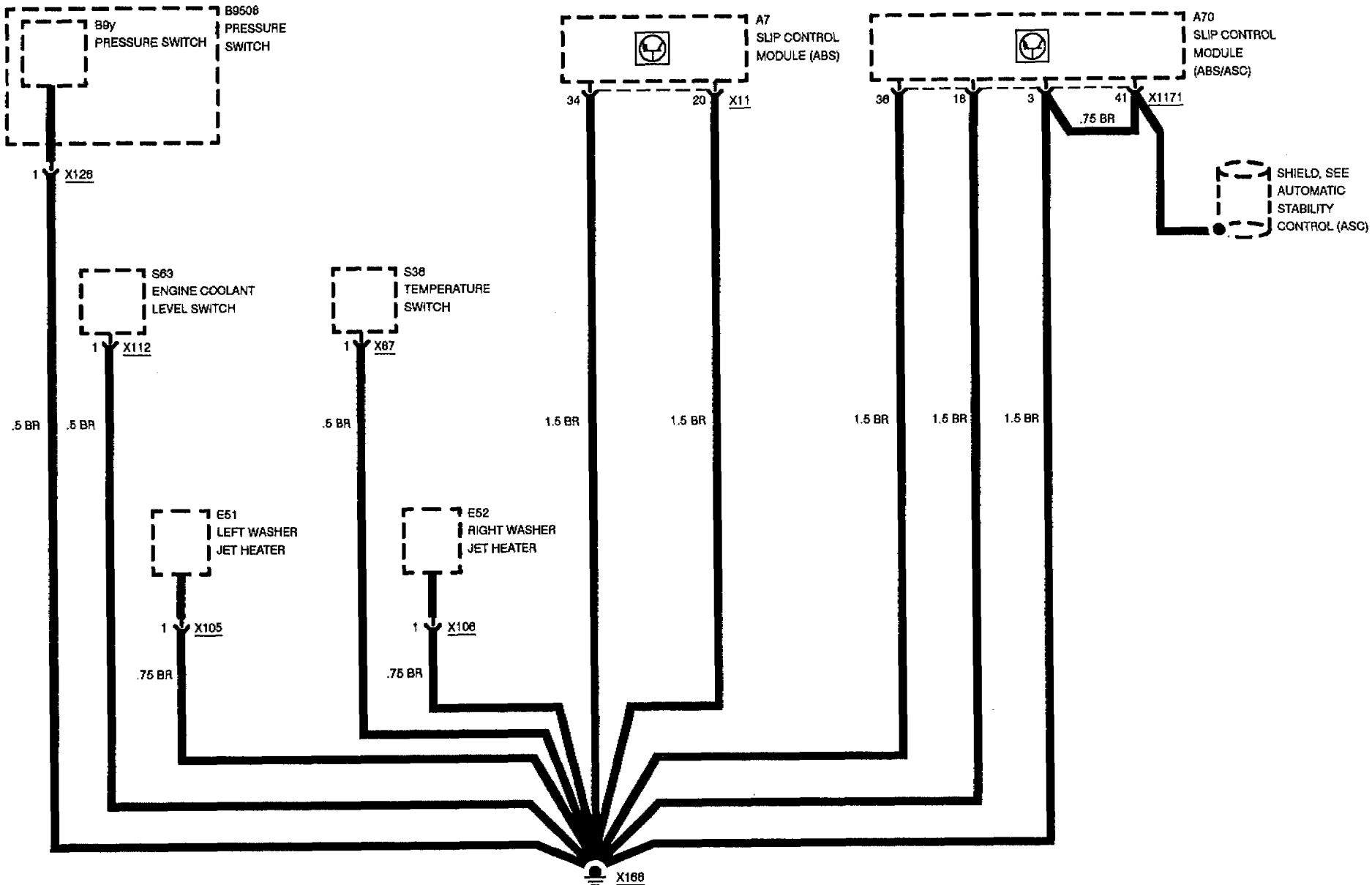
GROUND X165



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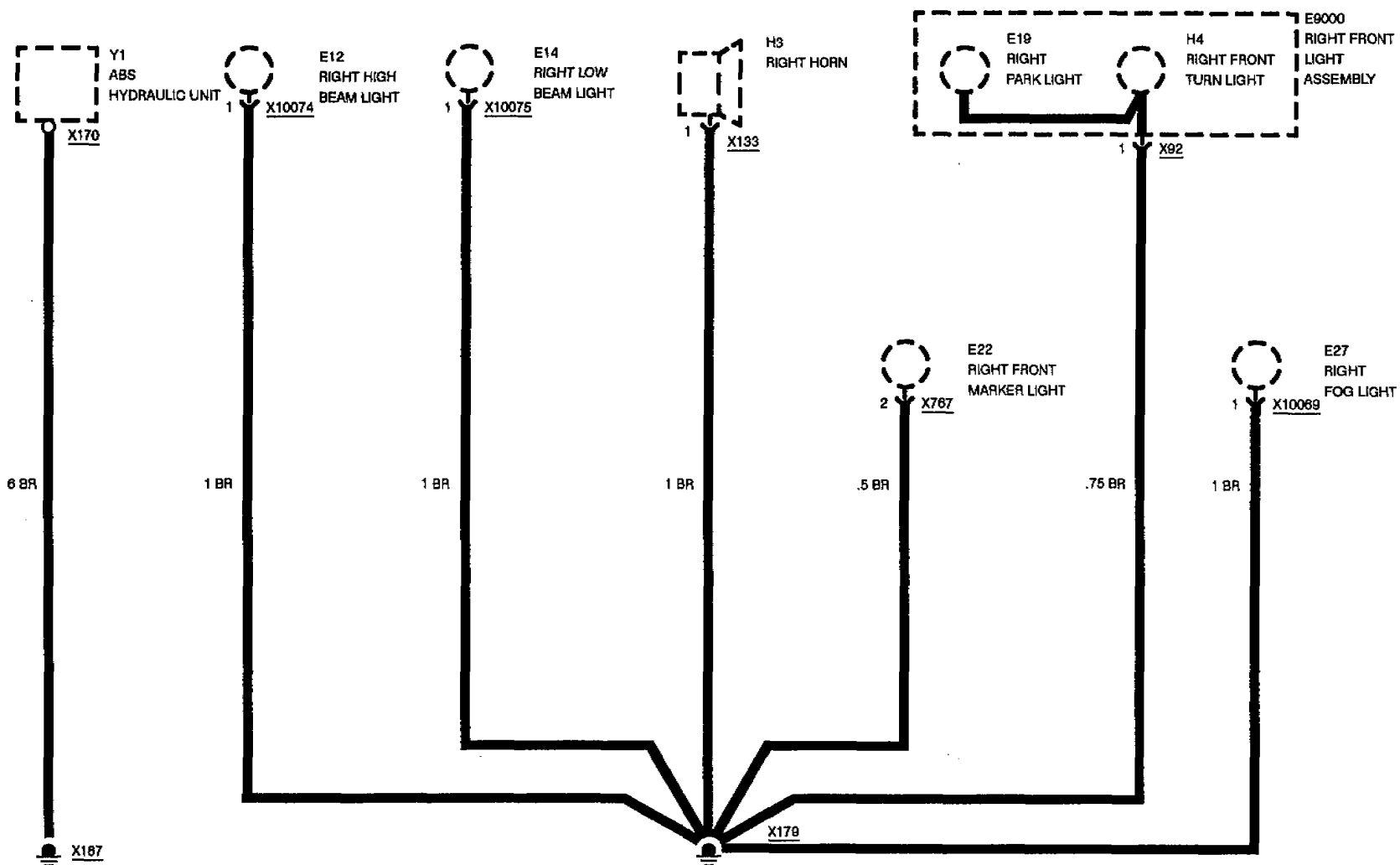
GROUND X166



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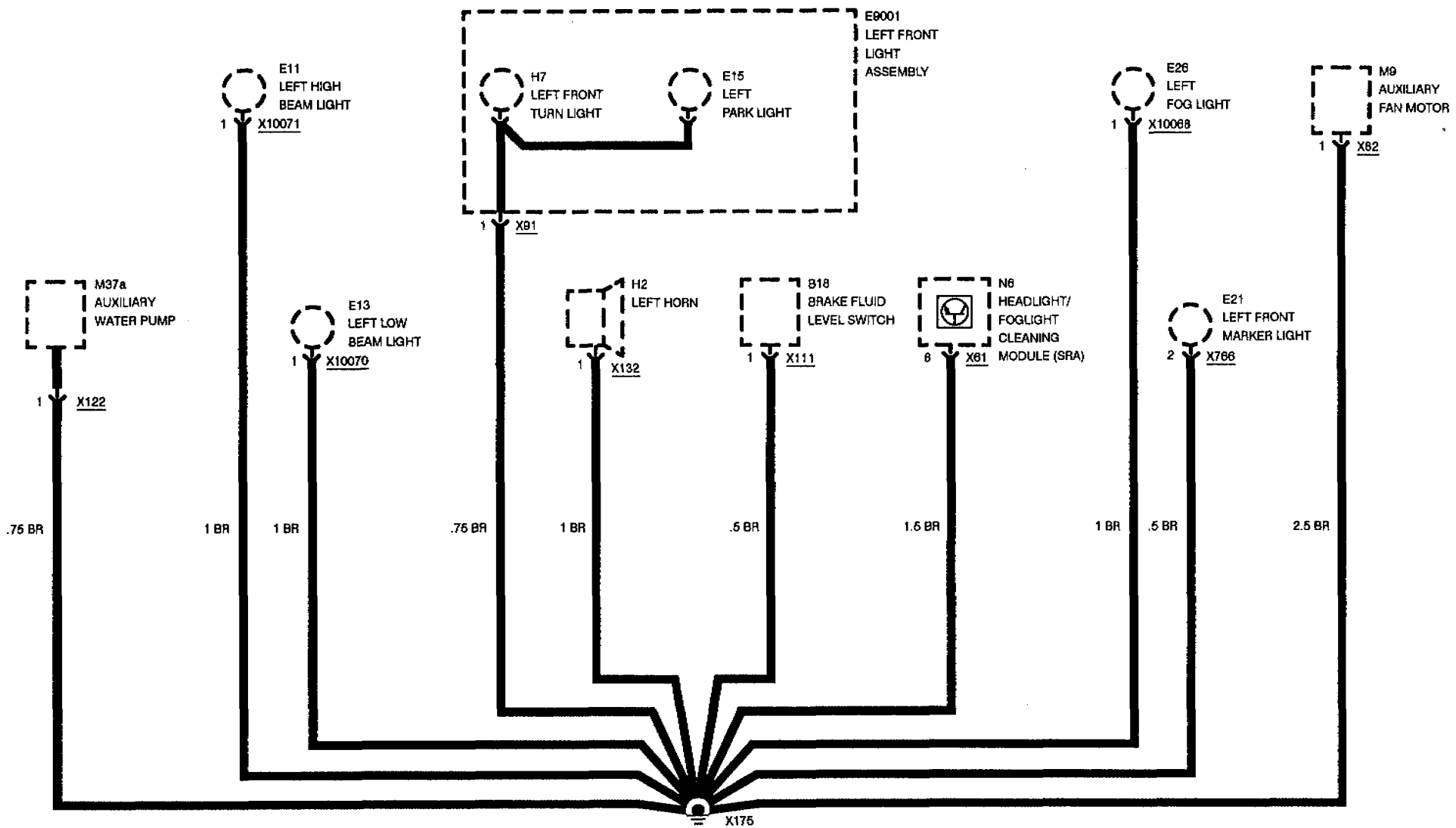
GROUNDS X167 AND X179



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GROUND DISTRIBUTION

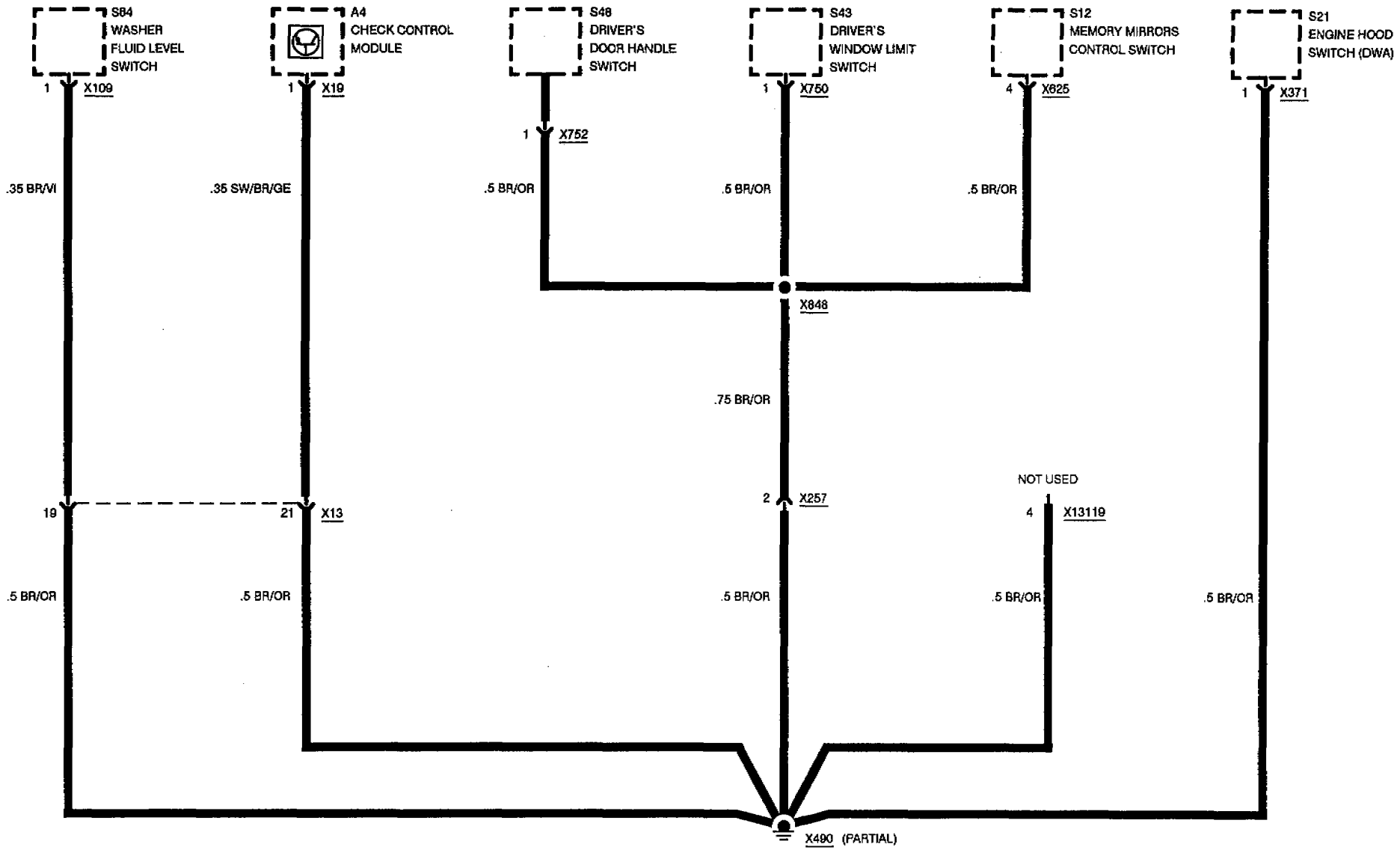
GROUND X175



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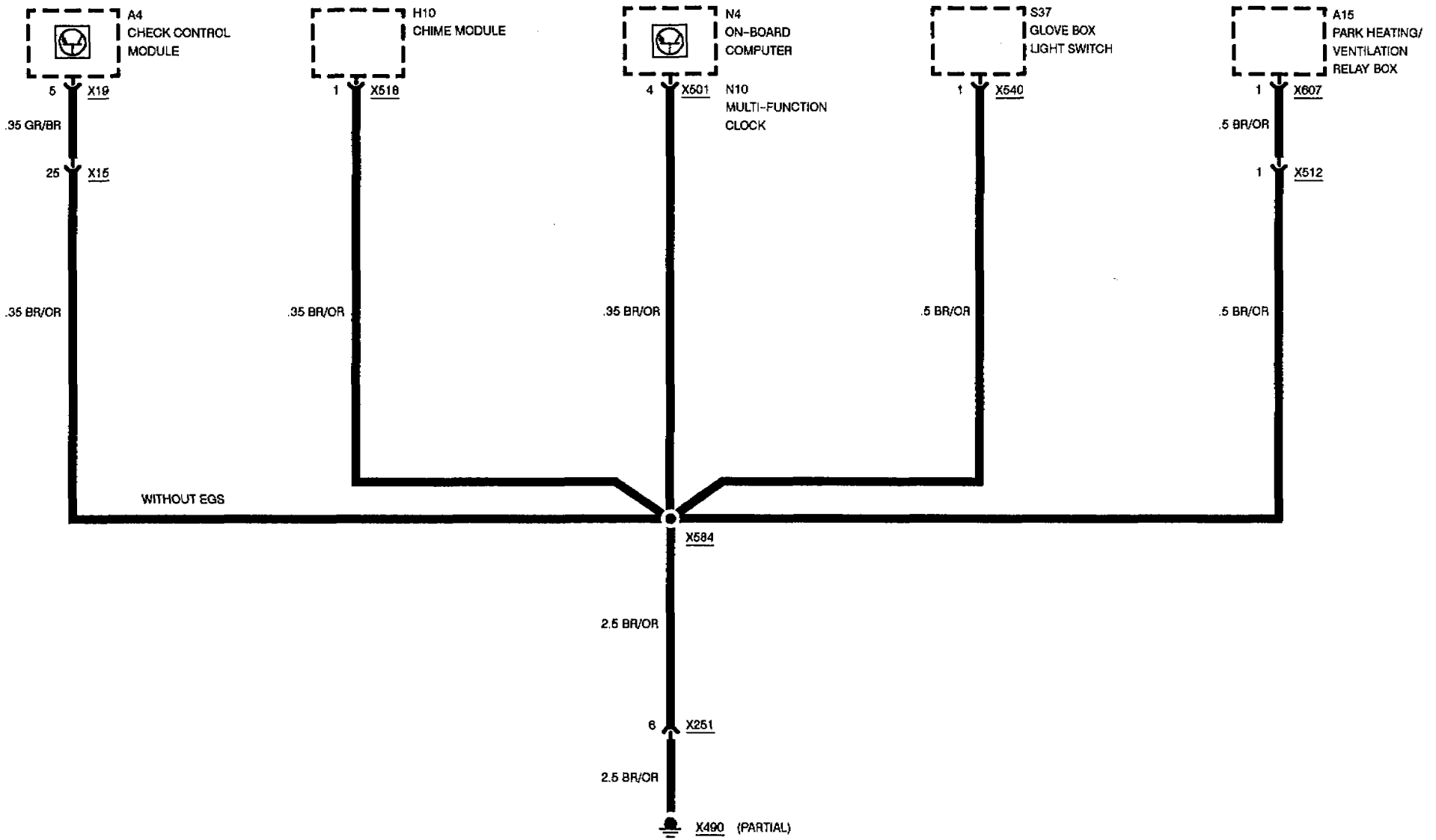
GROUND X490



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GROUND DISTRIBUTION

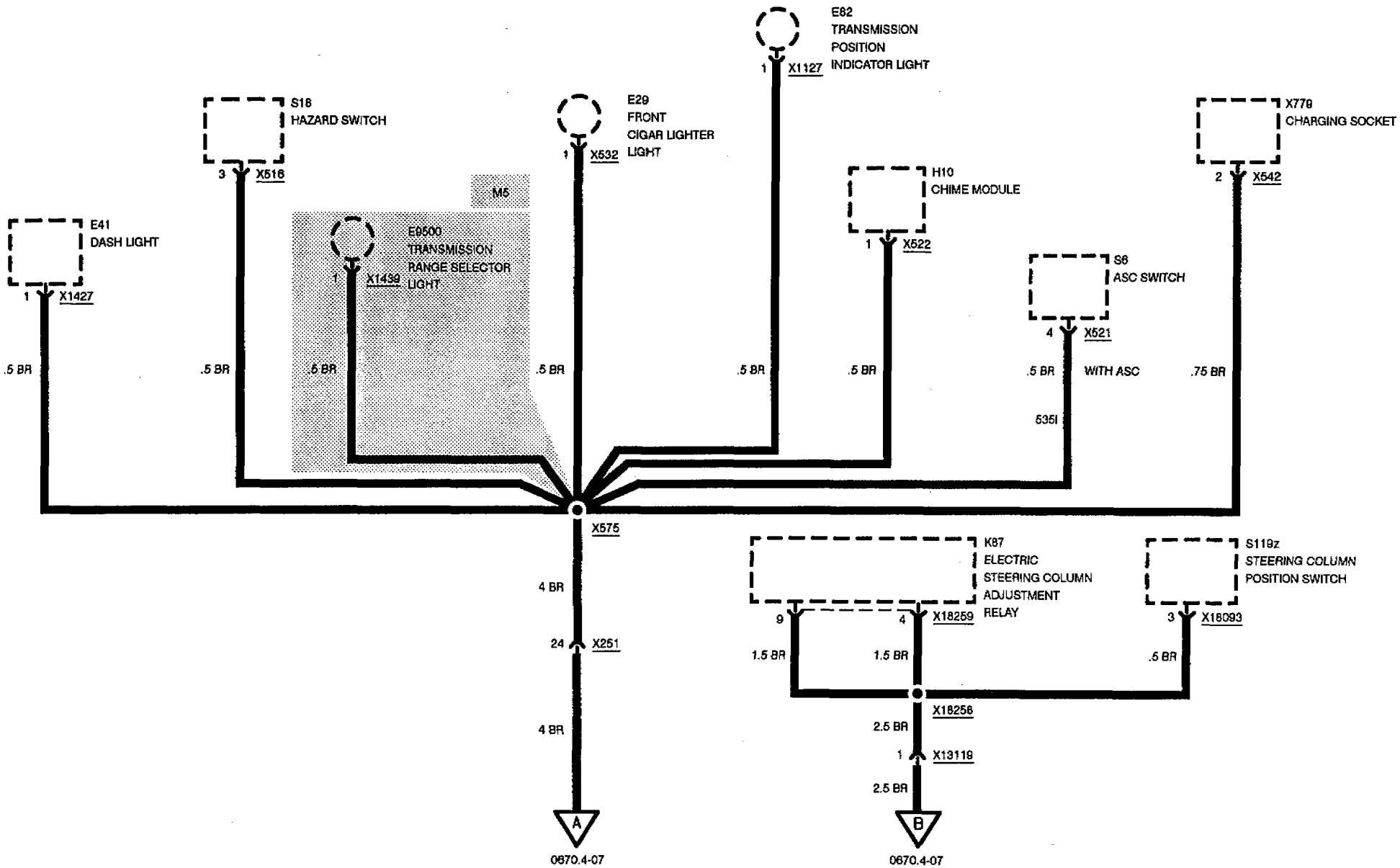
GROUND X490



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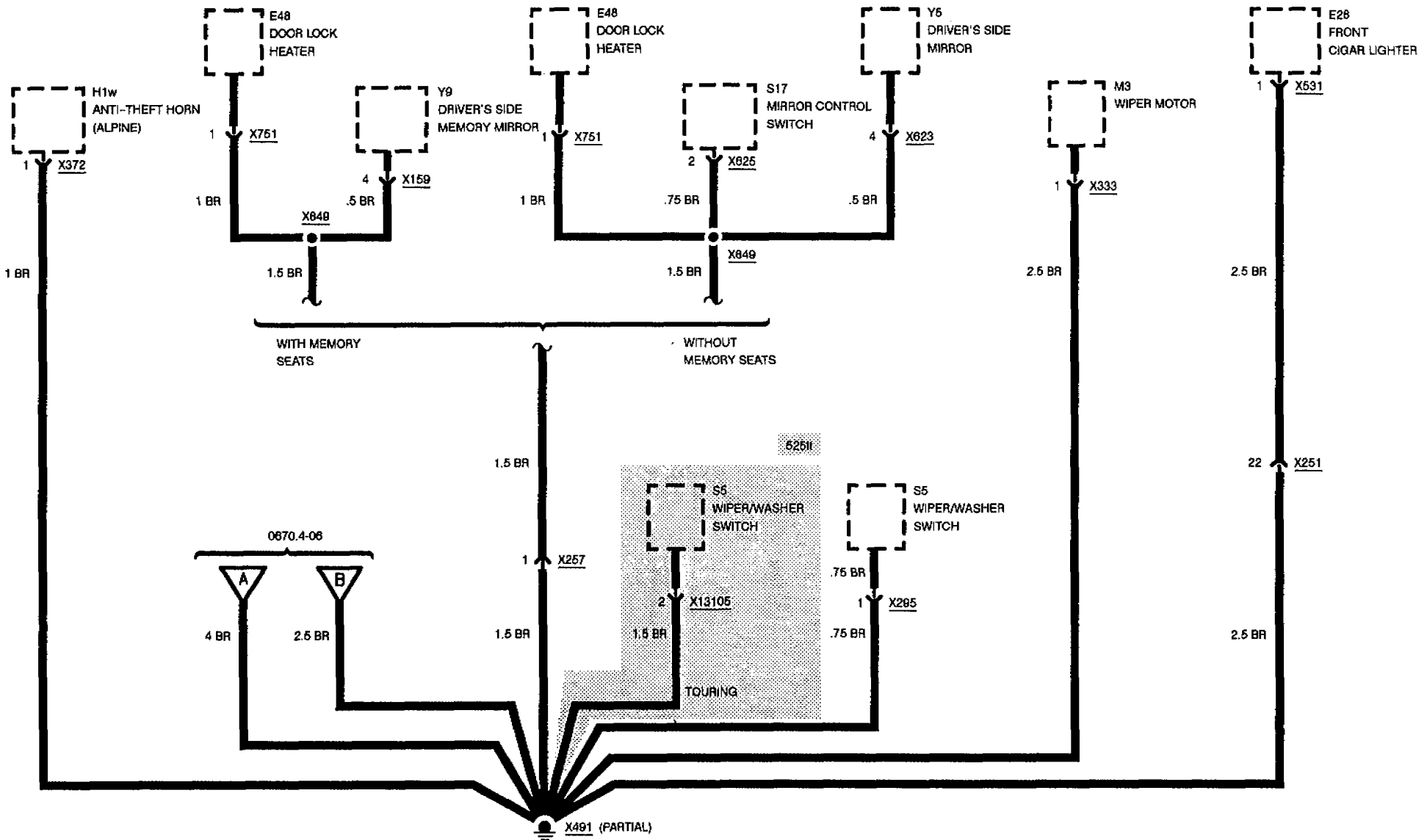
GROUND X491



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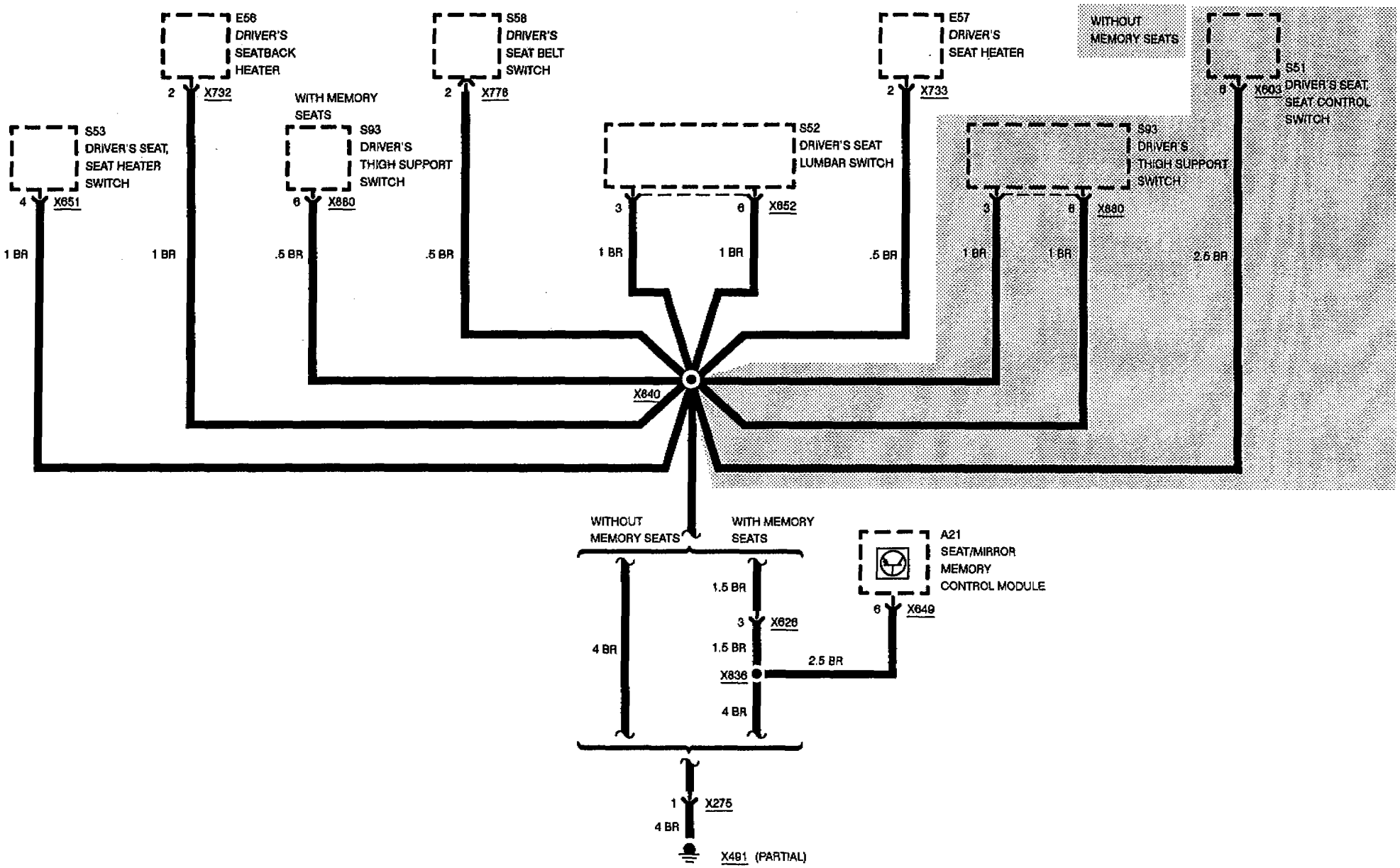
GROUND X491



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GROUND DISTRIBUTION

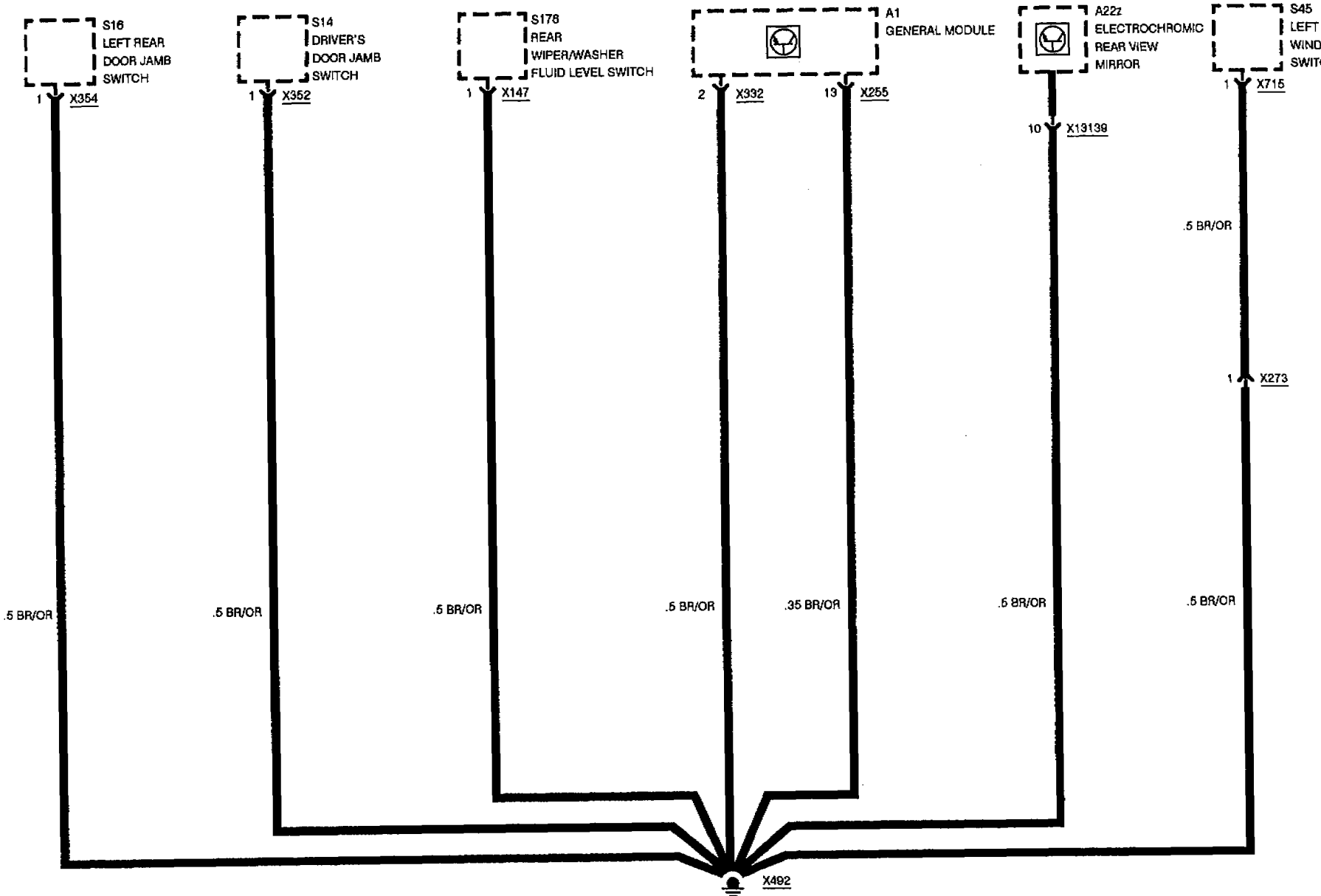
GROUND X491



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GROUND DISTRIBUTION

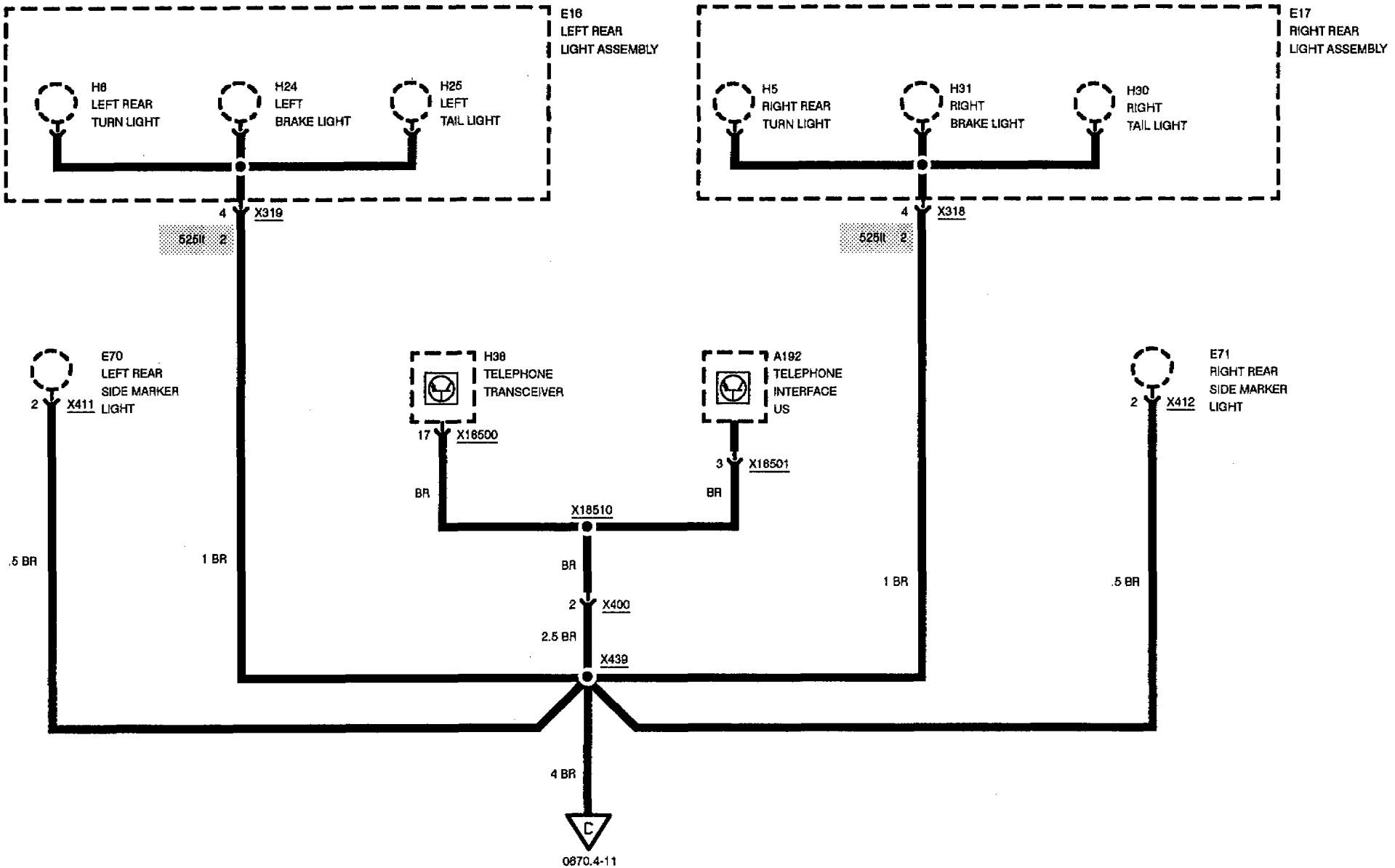
GROUND X492



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GROUND DISTRIBUTION

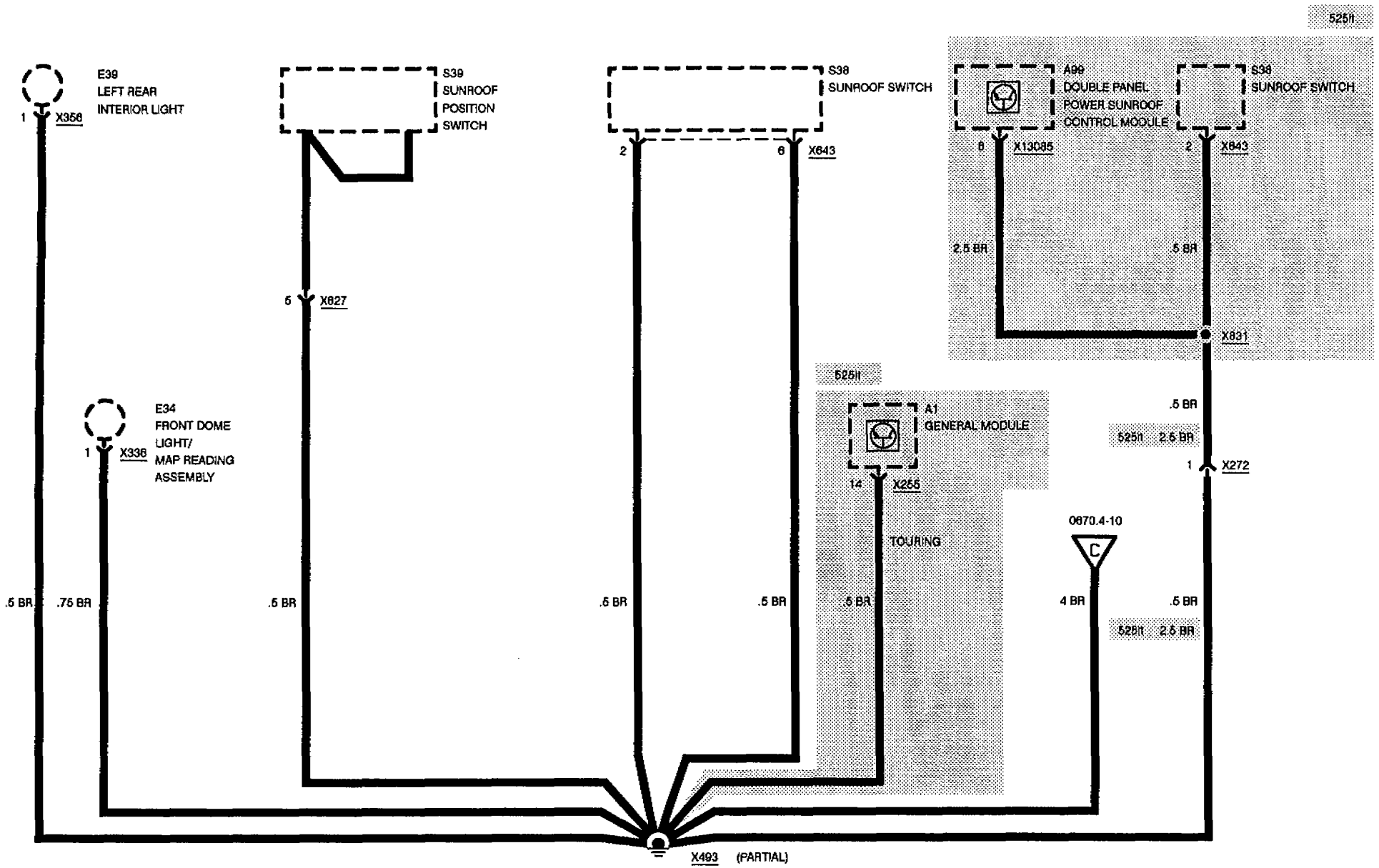
GROUND X493



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GROUND DISTRIBUTION

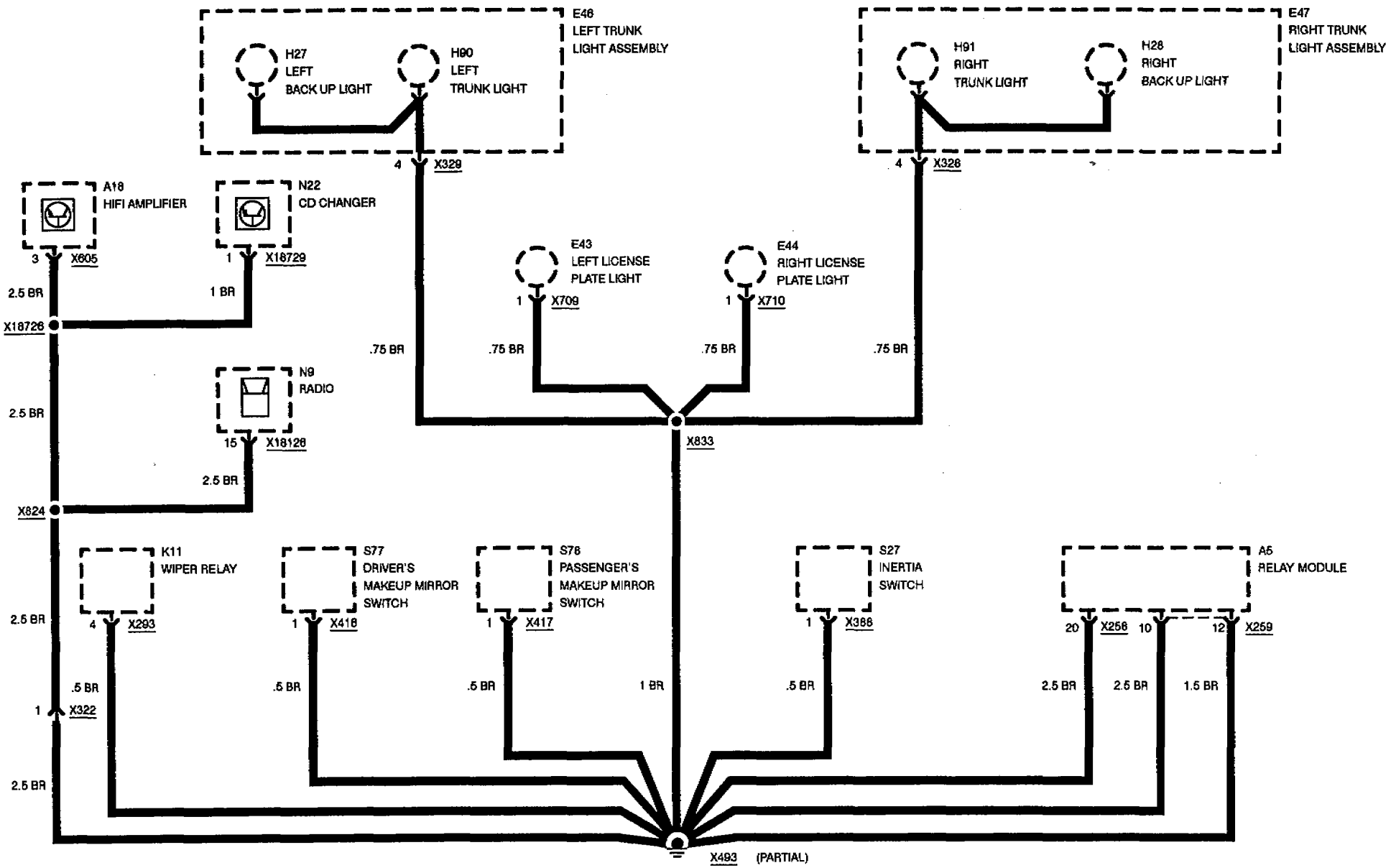
GROUND X493



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GROUND DISTRIBUTION

GROUND X493

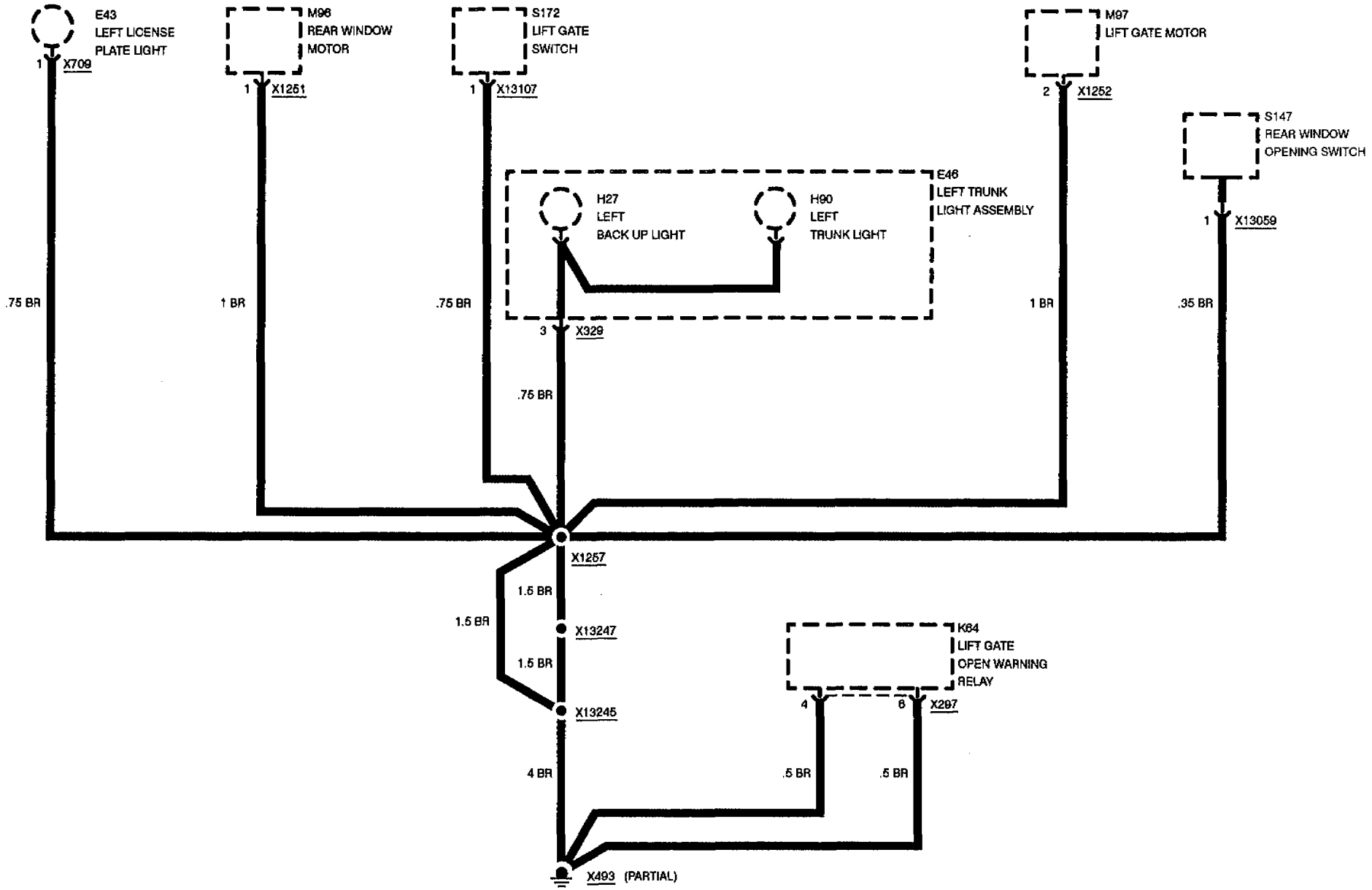


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GROUND DISTRIBUTION

525it

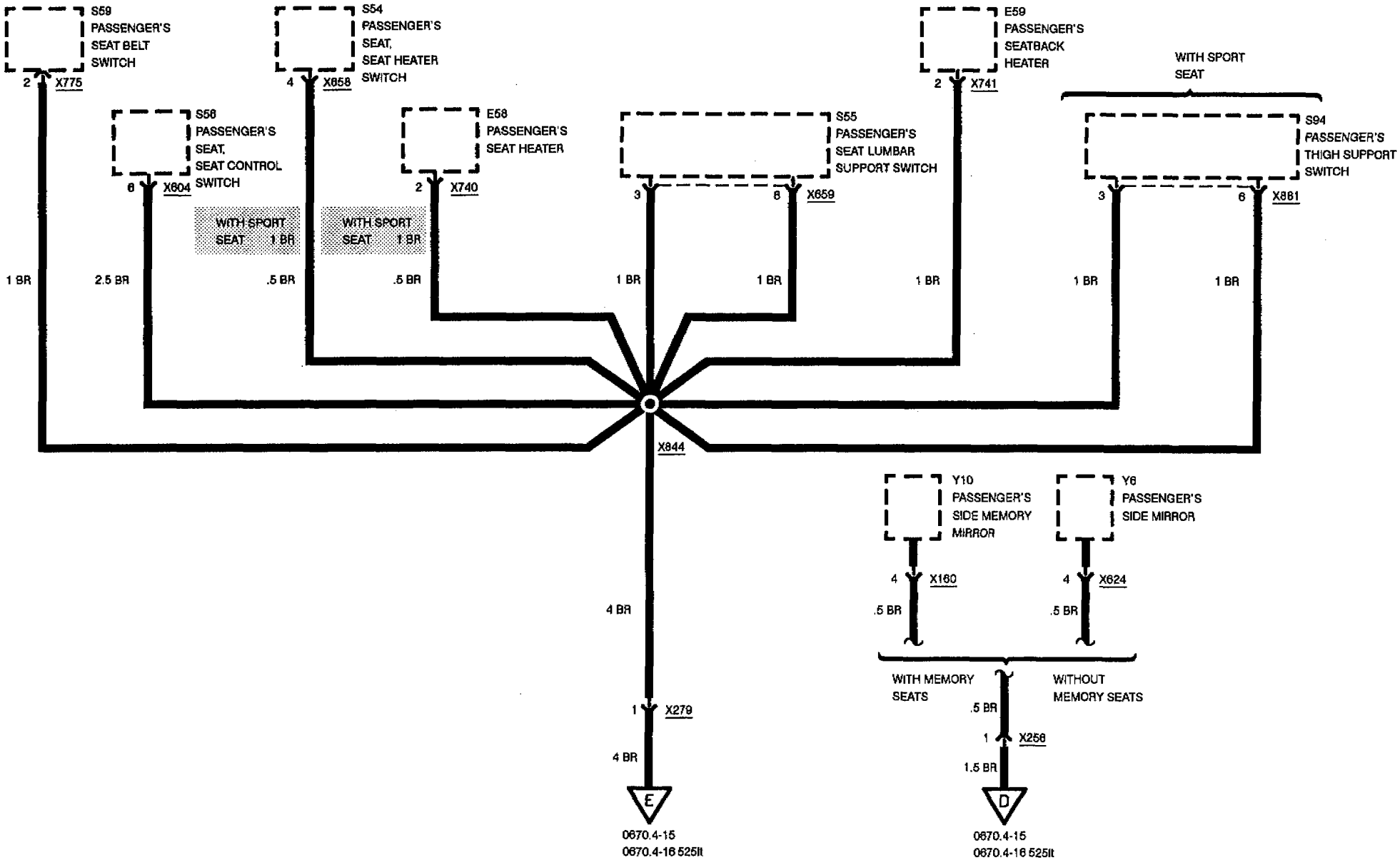
GROUND X493



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GROUND DISTRIBUTION

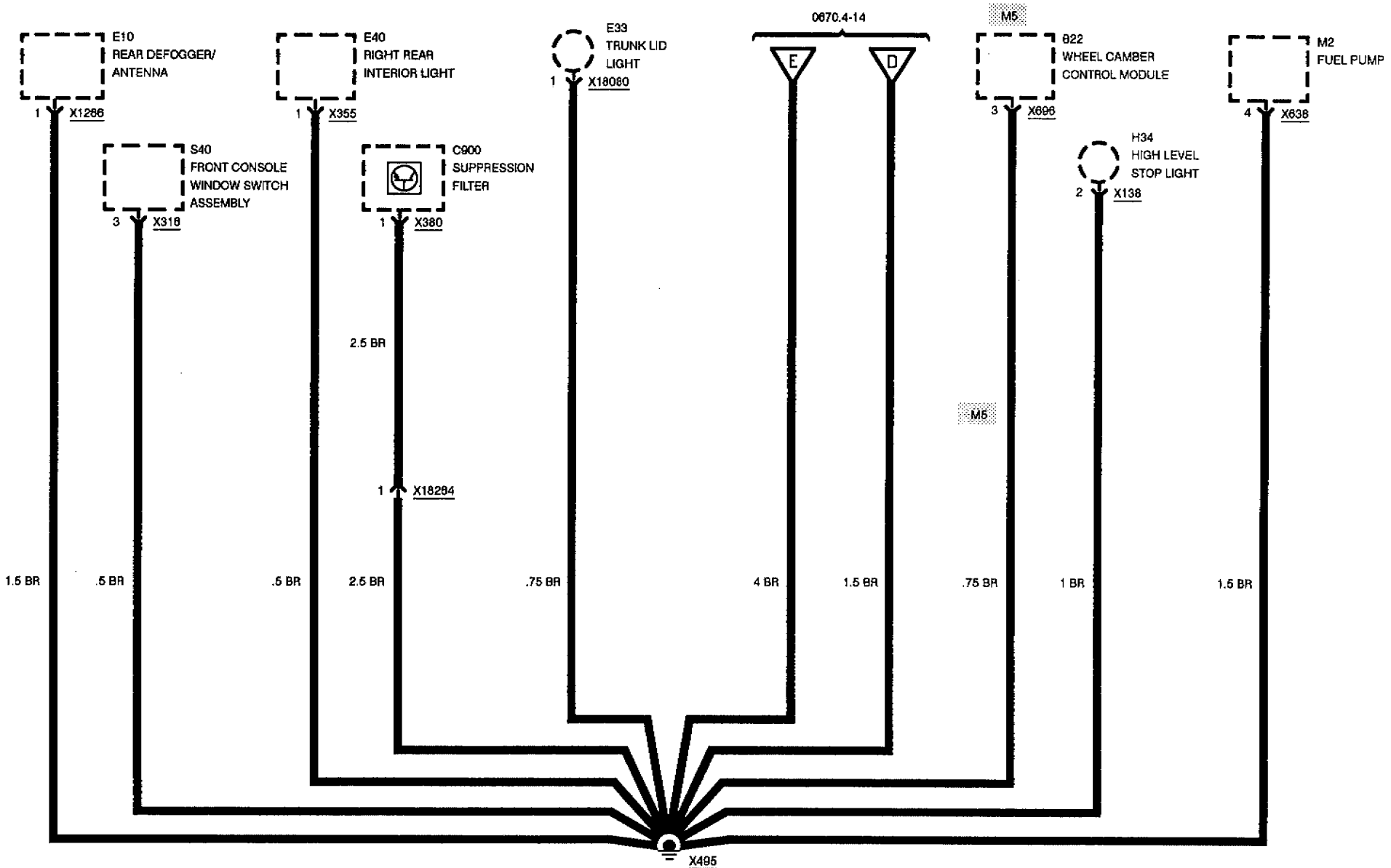
GROUND X495



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GROUND DISTRIBUTION

GROUND X495

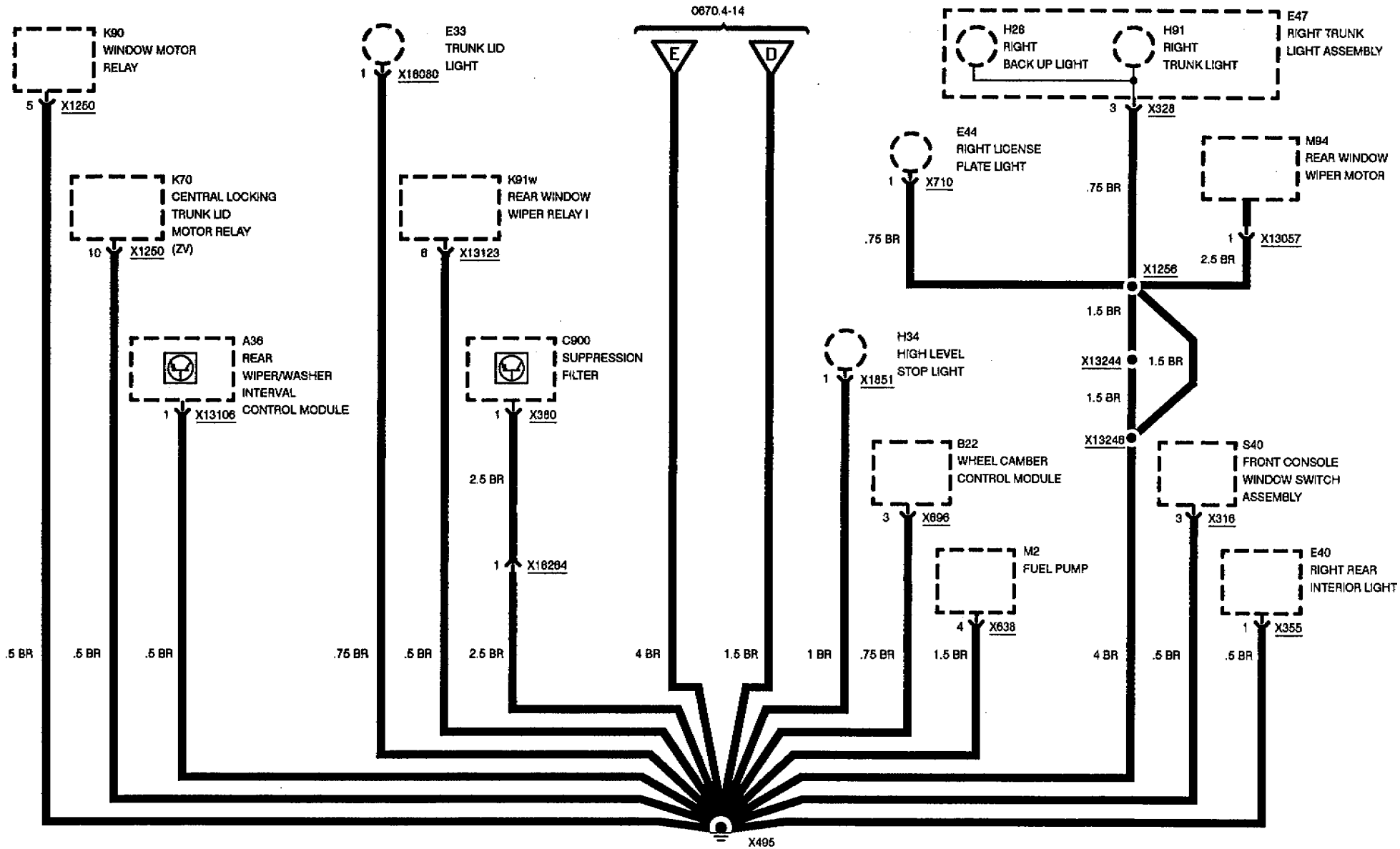


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GROUND DISTRIBUTION

GROUND X495

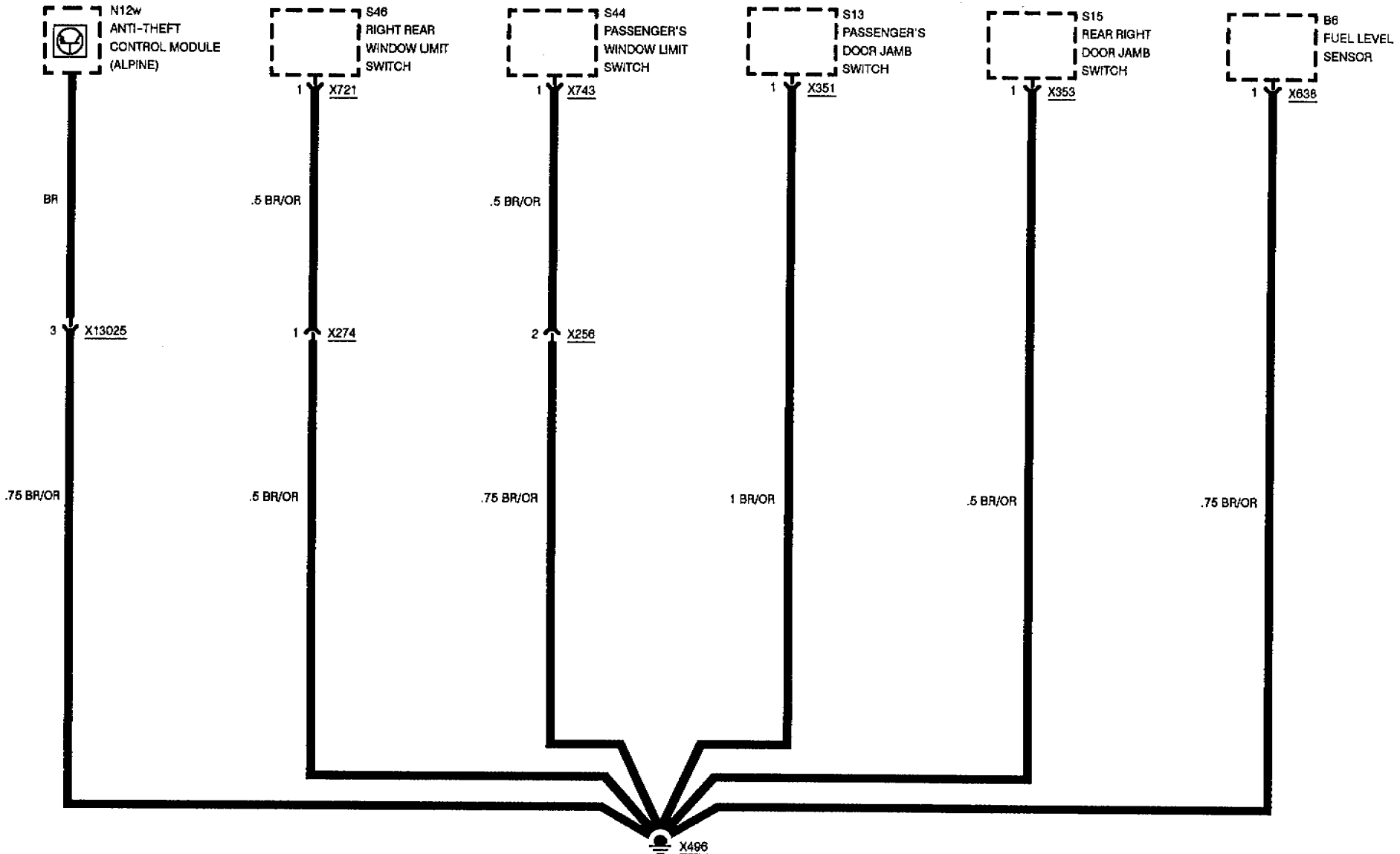
525it



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GROUND DISTRIBUTION

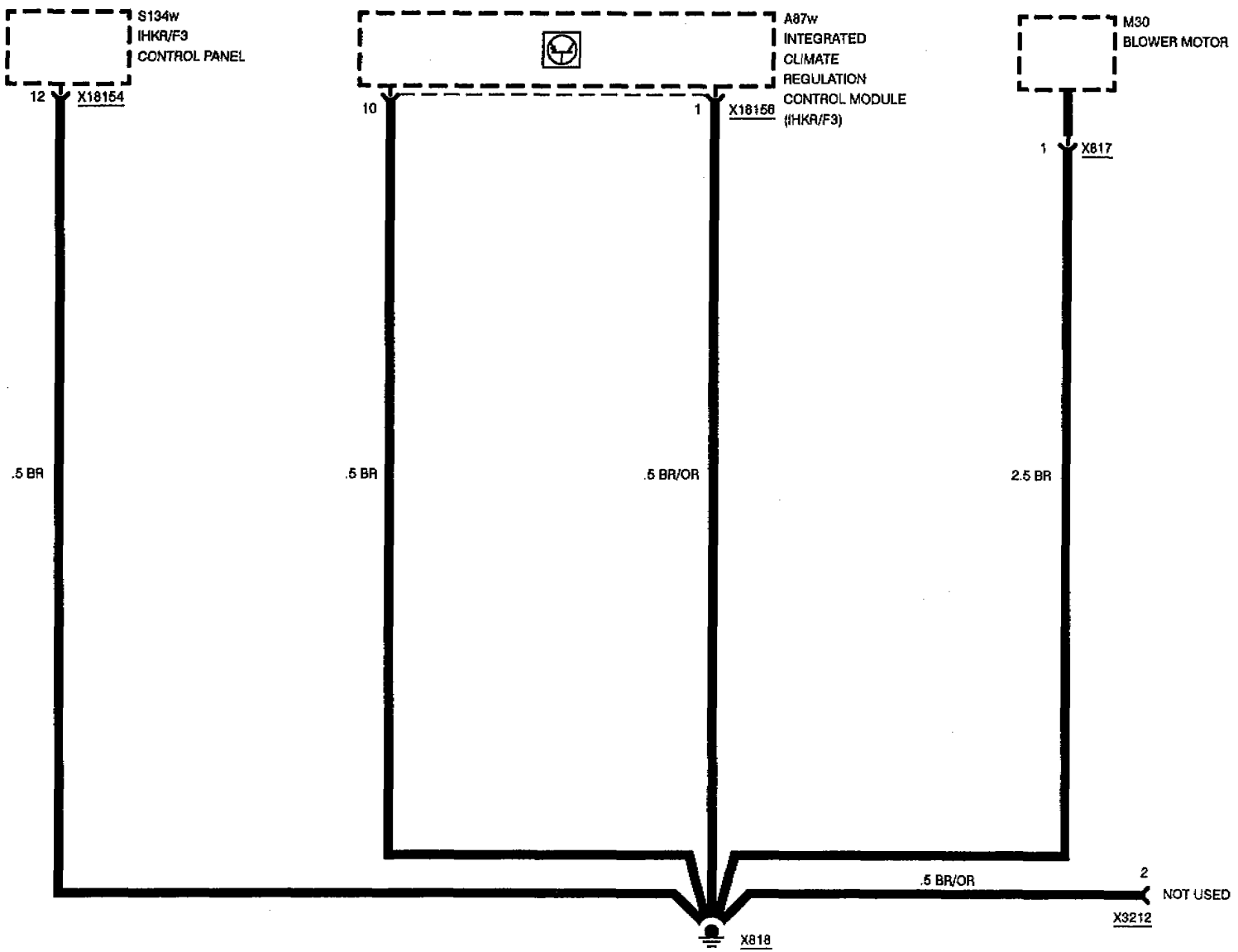
GROUND X496



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GROUND DISTRIBUTION

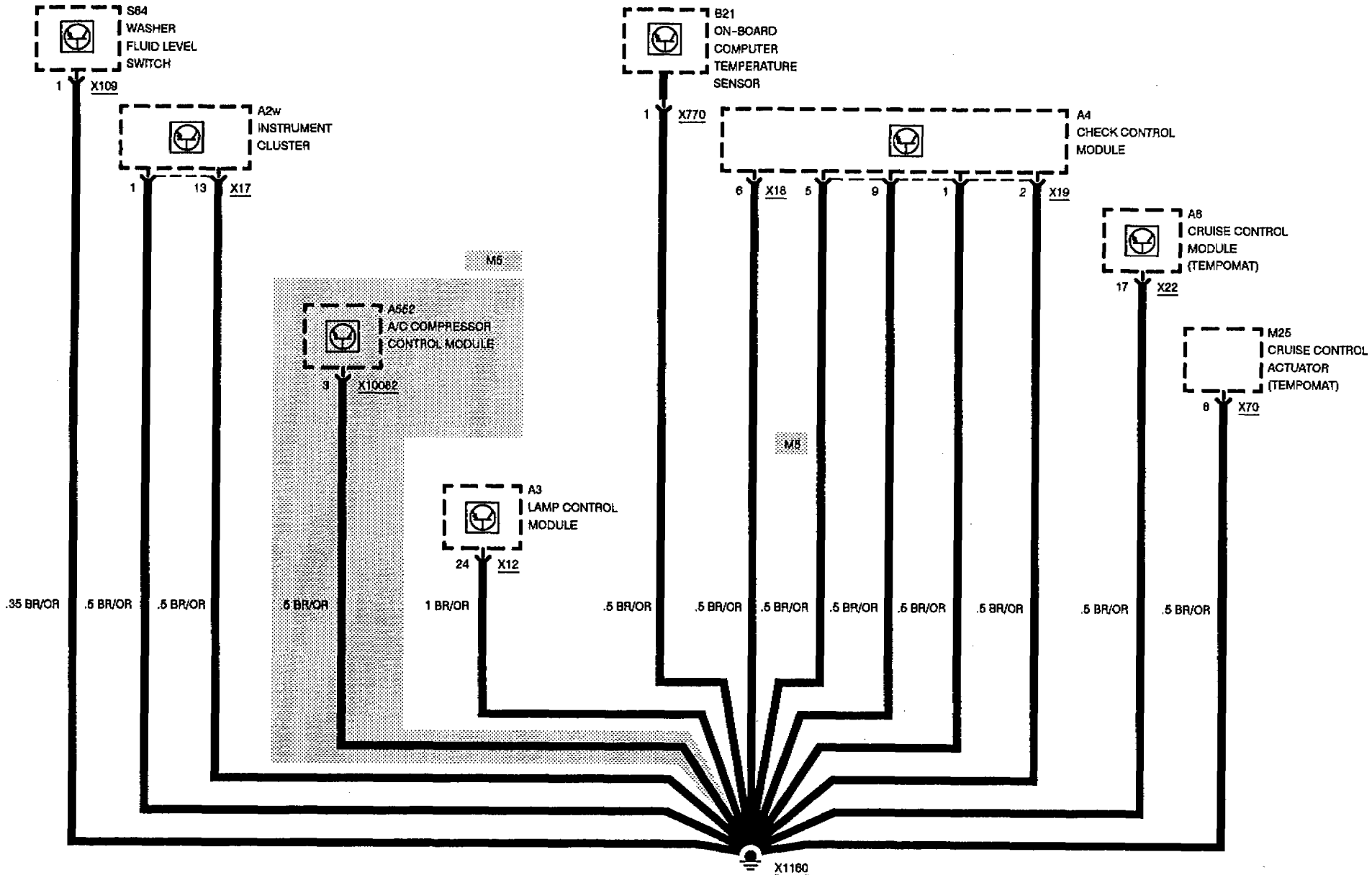
GROUND X818



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GROUND DISTRIBUTION

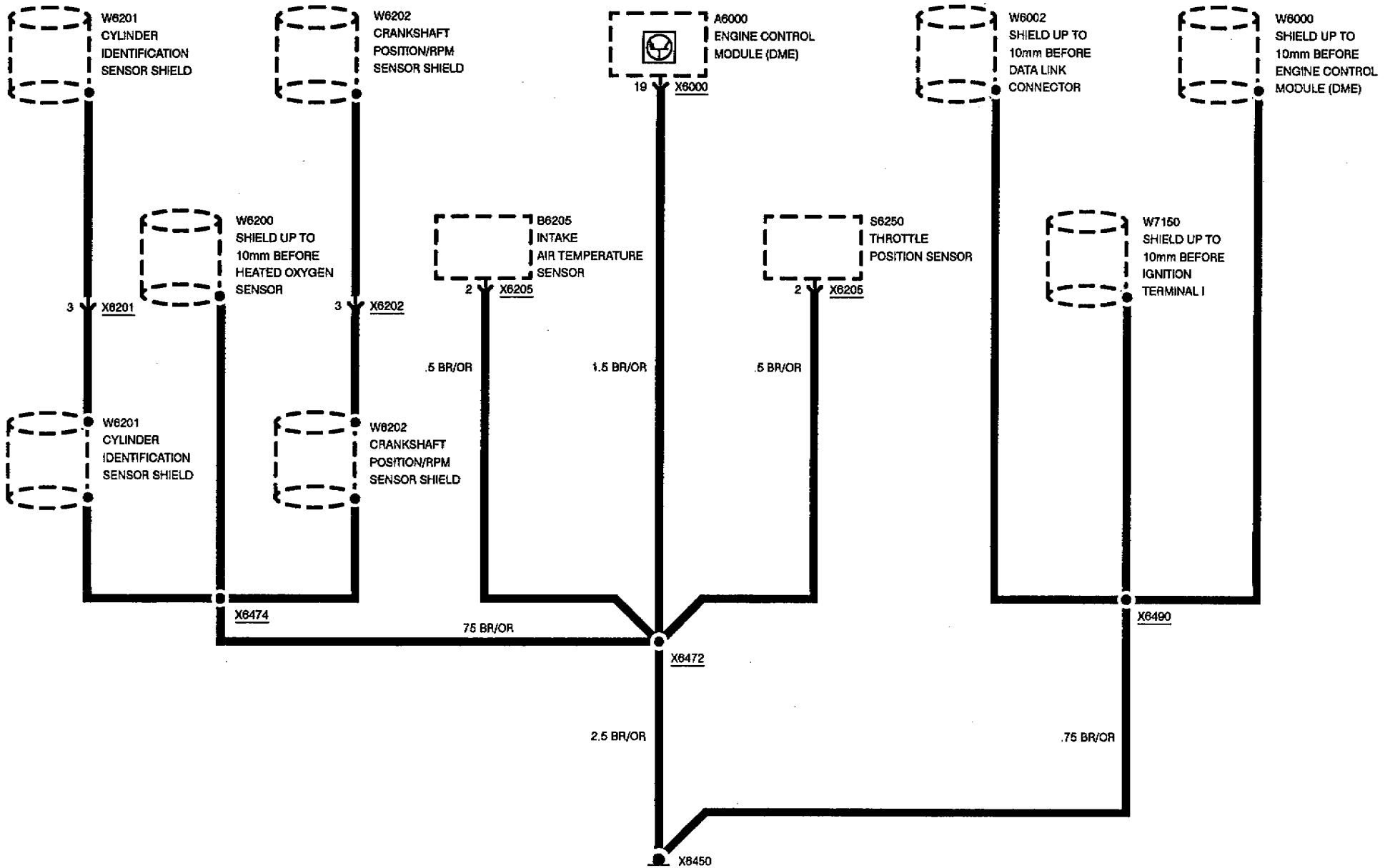
GROUND X1160



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GROUND DISTRIBUTION

GROUND X6450 WITHOUT EML

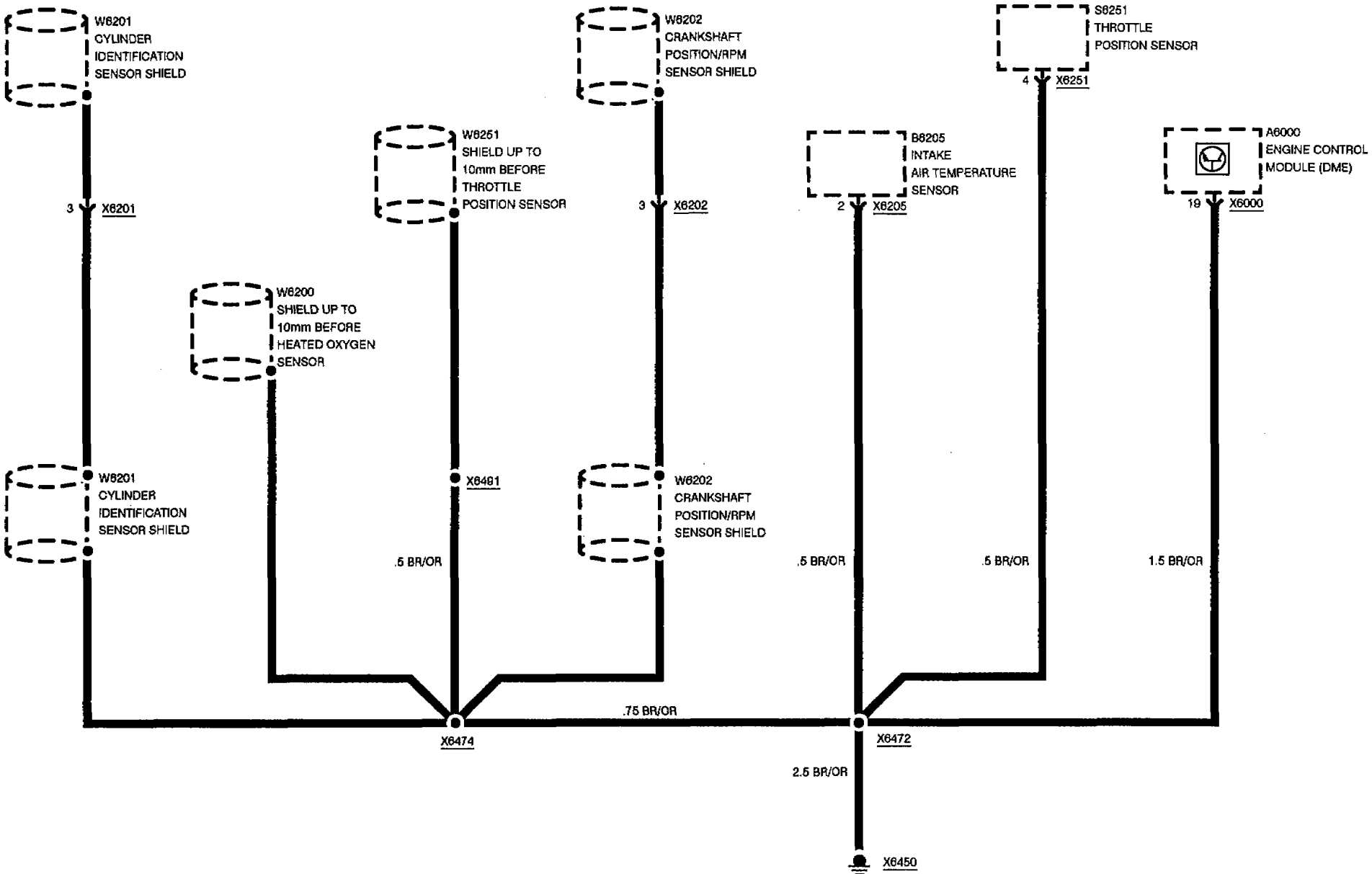


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GROUND DISTRIBUTION

535i

GROUND X6450 WITHOUT EML, WITH EGS

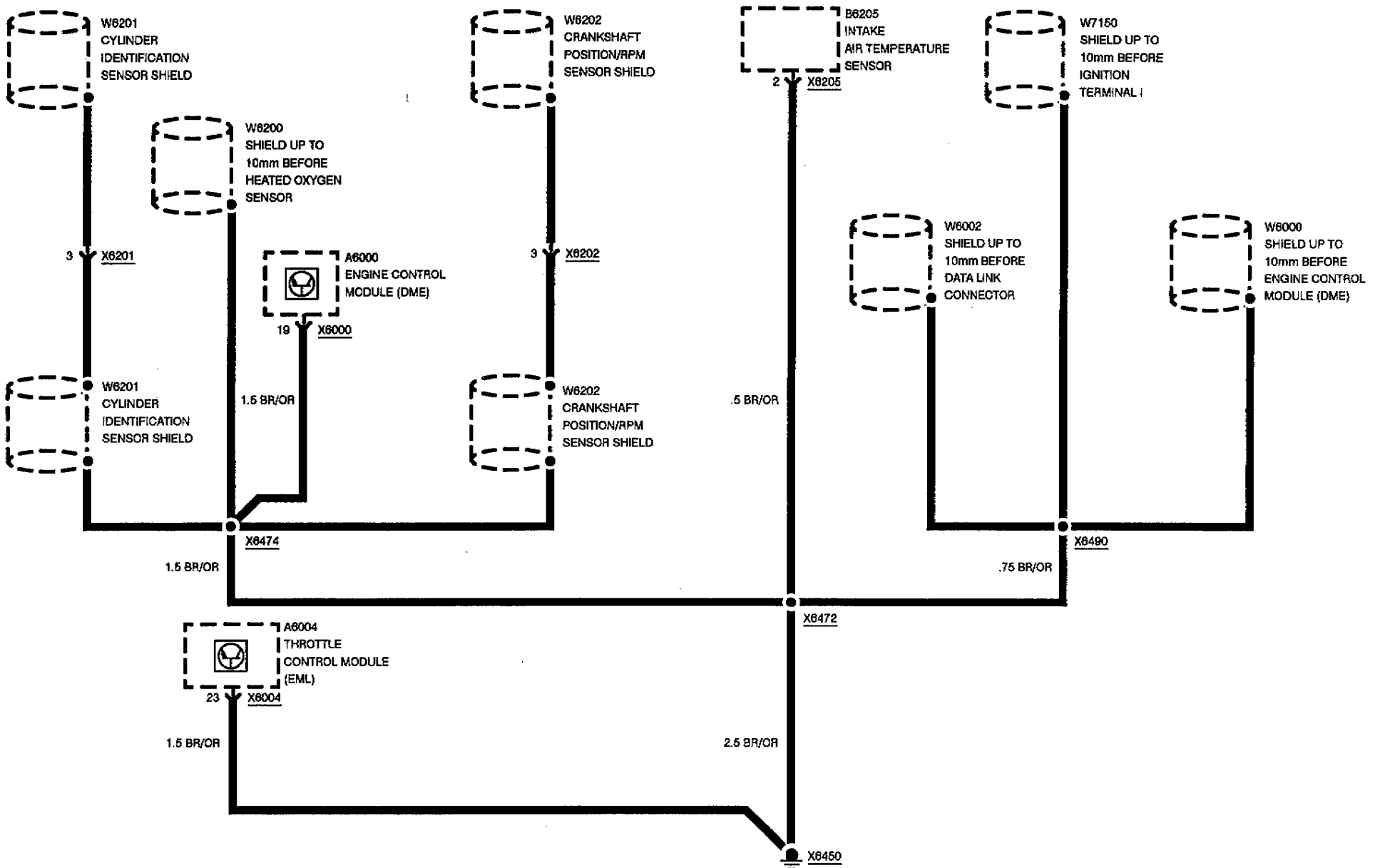


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GROUND DISTRIBUTION

535i

GROUND X6450 WITH EML

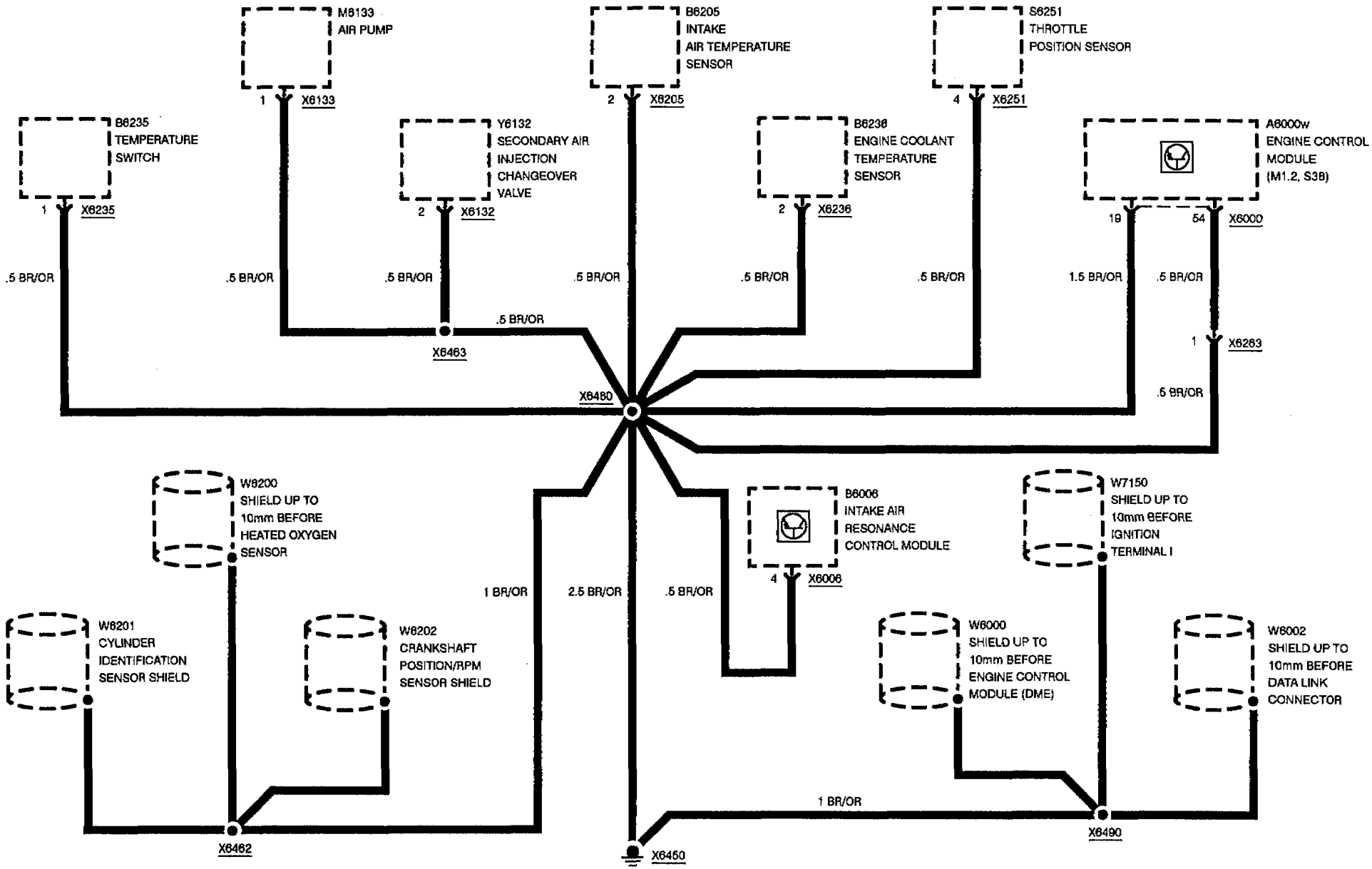


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GROUND DISTRIBUTION

M5

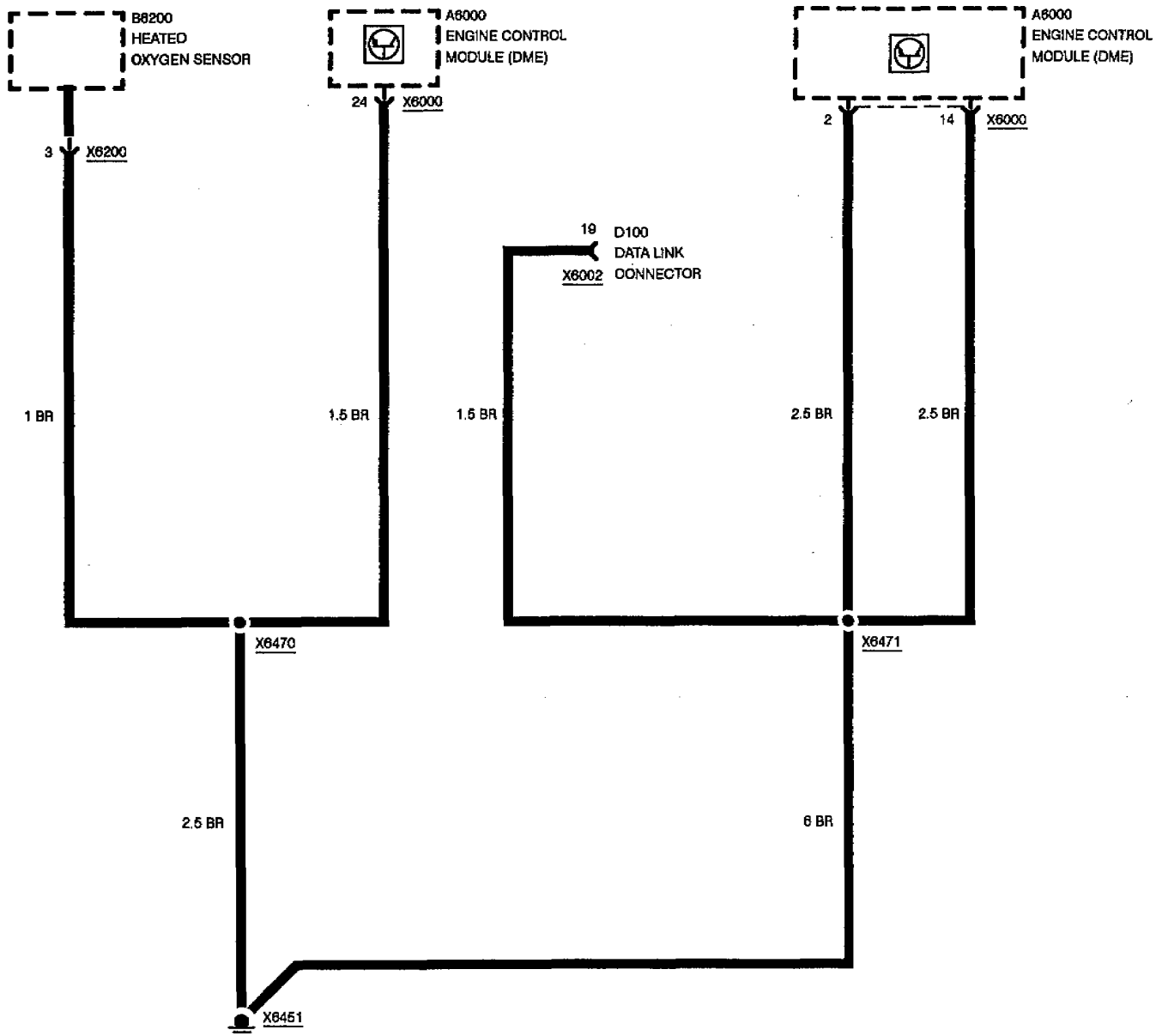
GROUND X6450



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GROUND DISTRIBUTION

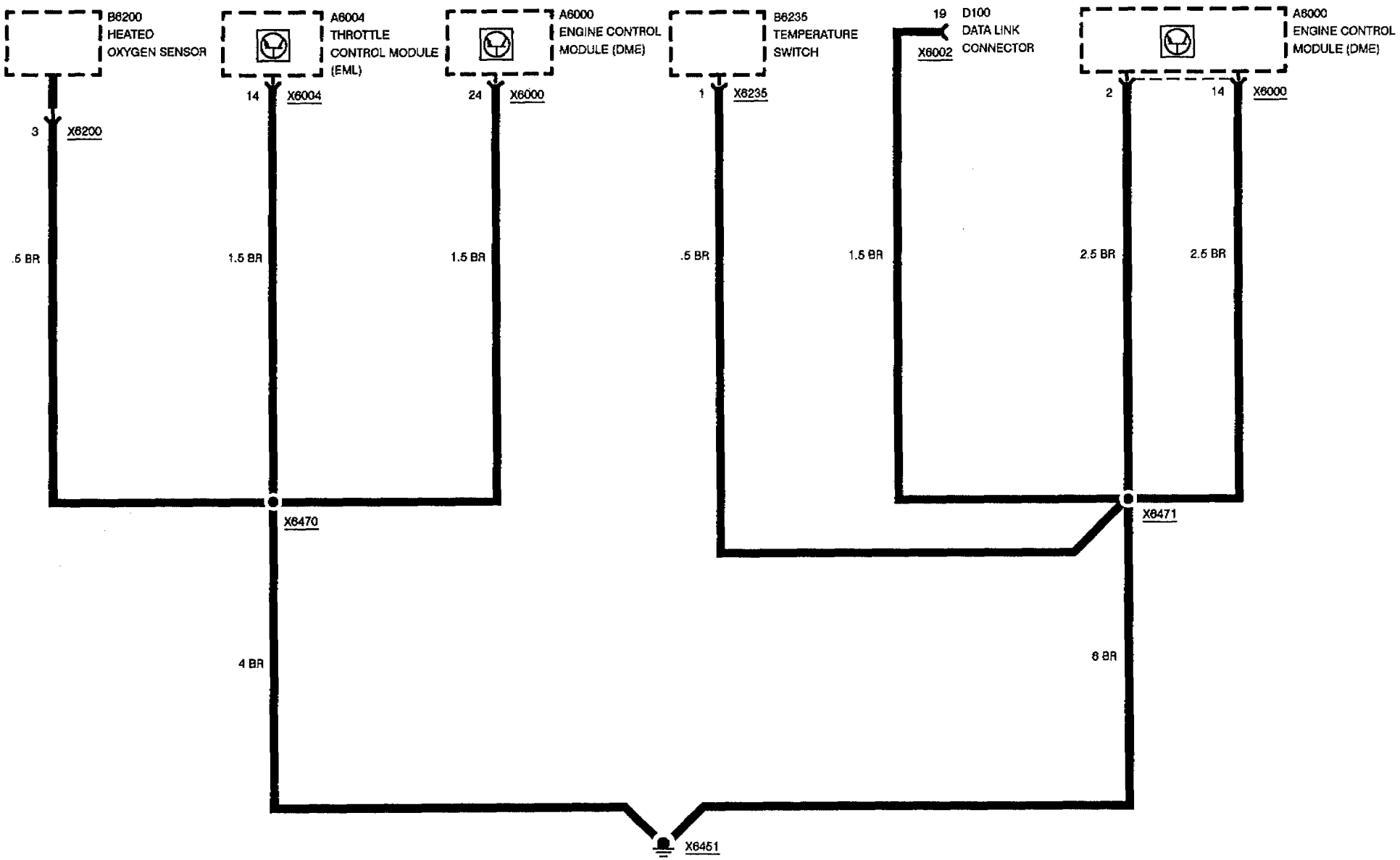
GROUND X6451 WITHOUT EML



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GROUND DISTRIBUTION

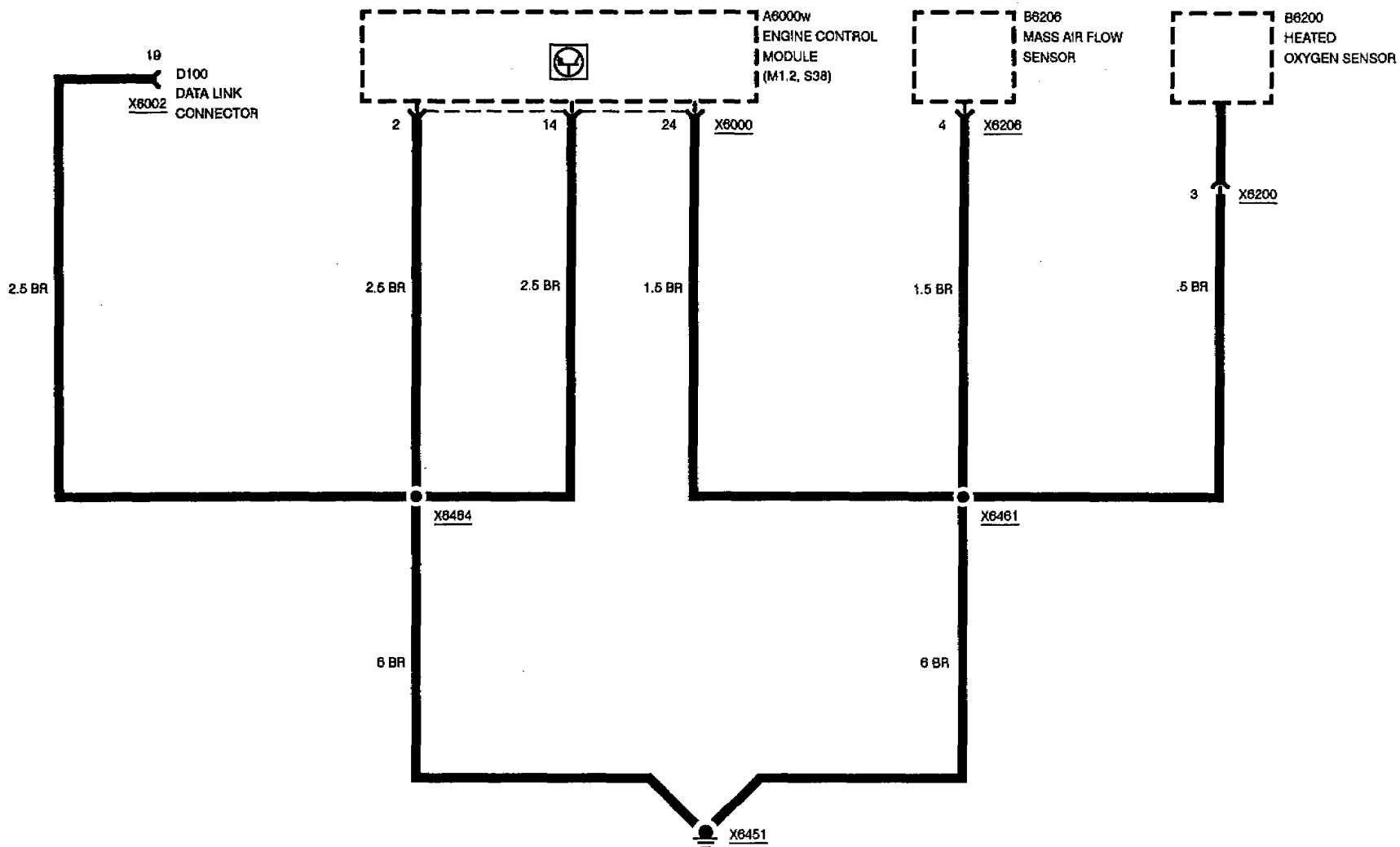
GROUND X6451 WITH EML



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GROUND DISTRIBUTION

GROUND X6451

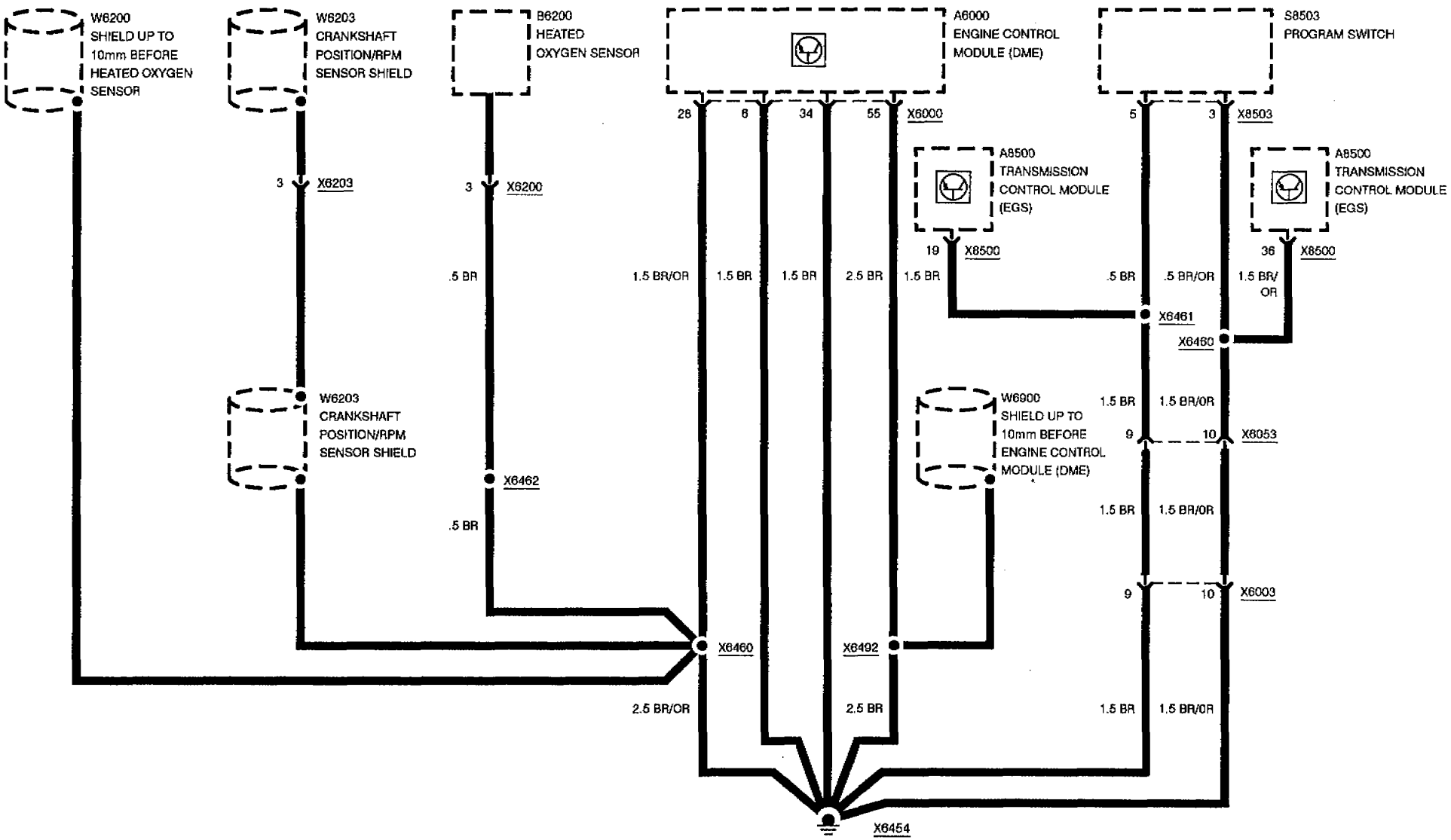


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GROUND DISTRIBUTION

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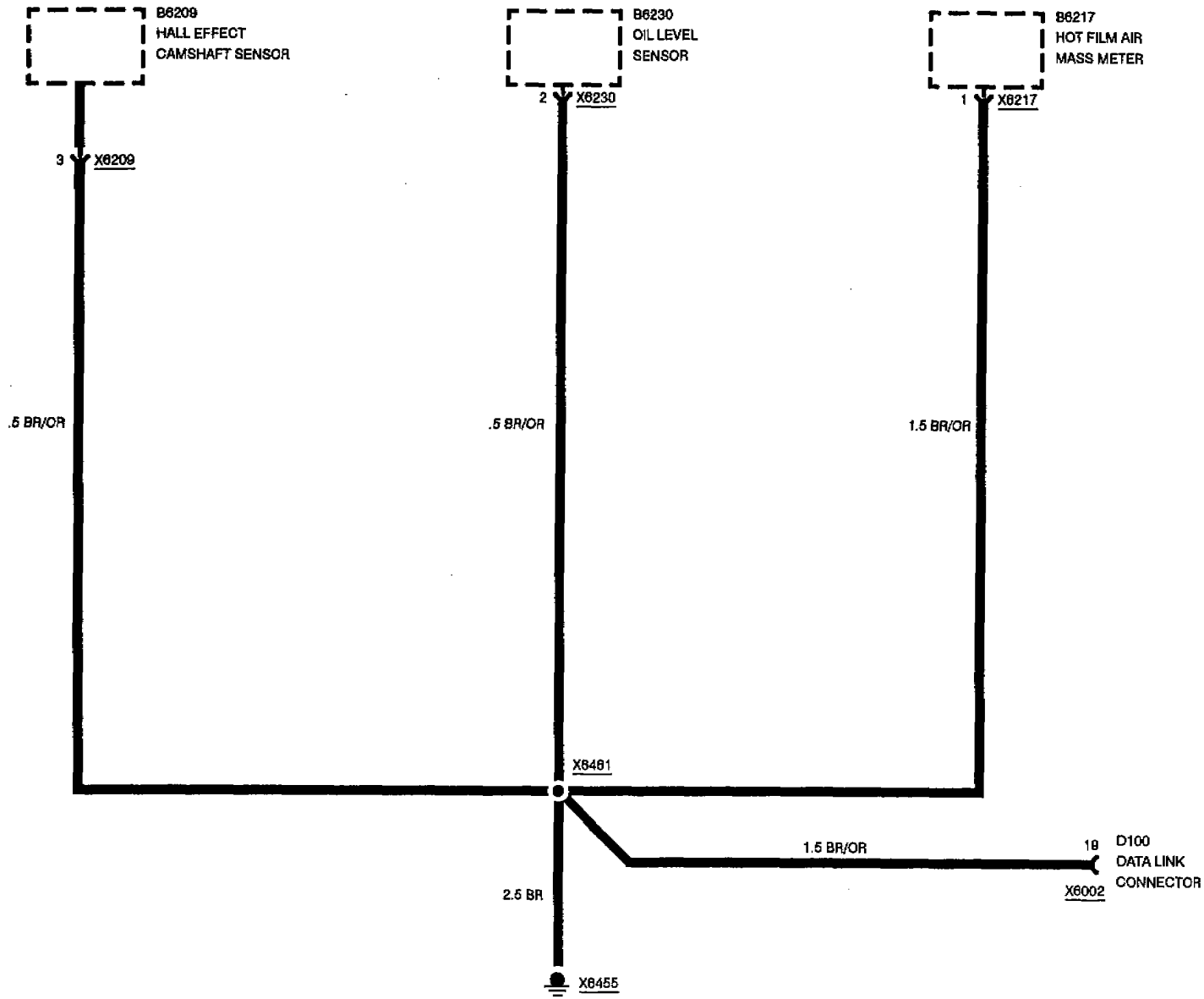
GROUND X6454



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GROUND DISTRIBUTION

GROUND X6455

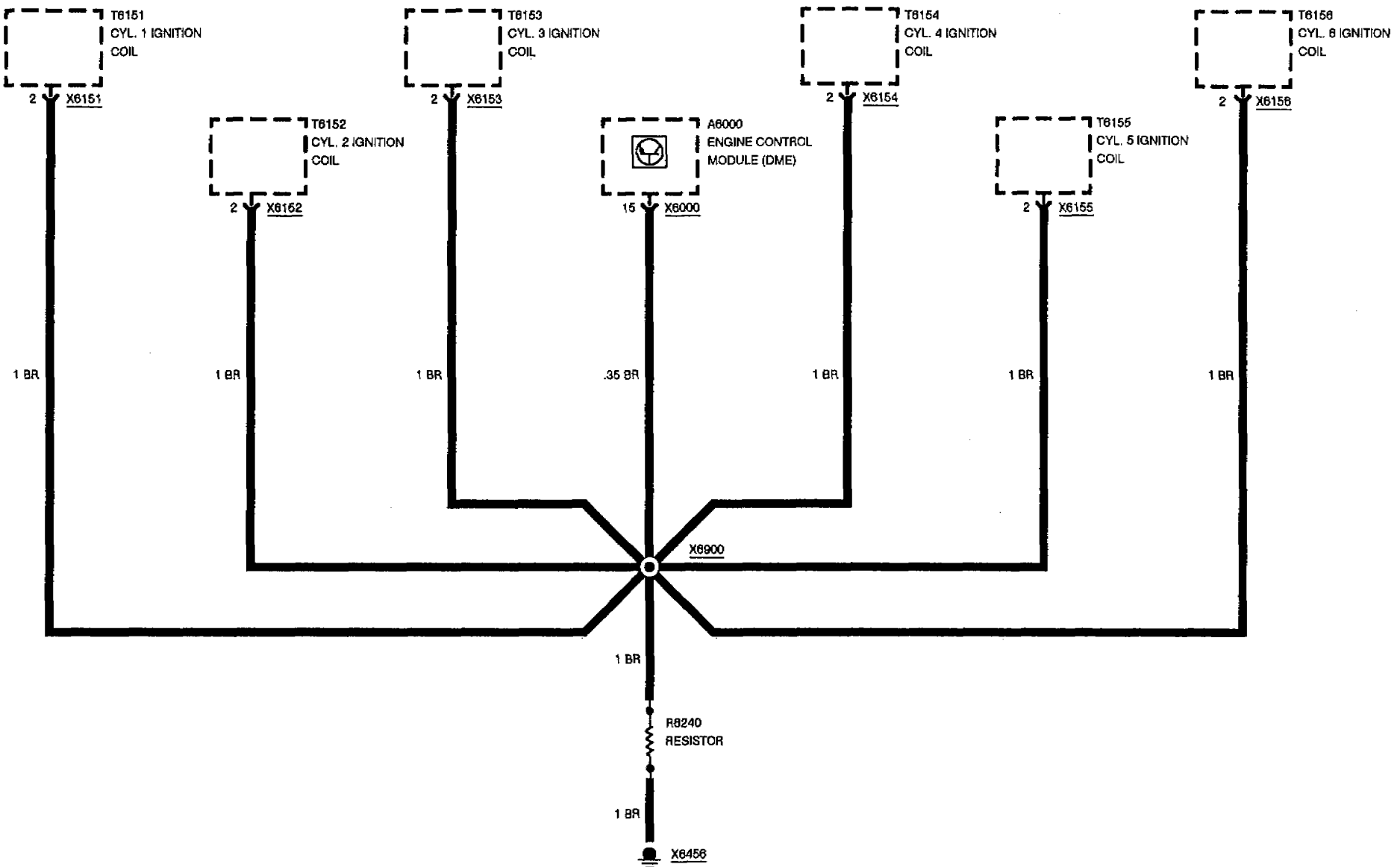


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GROUND DISTRIBUTION

GROUND X6456

525i

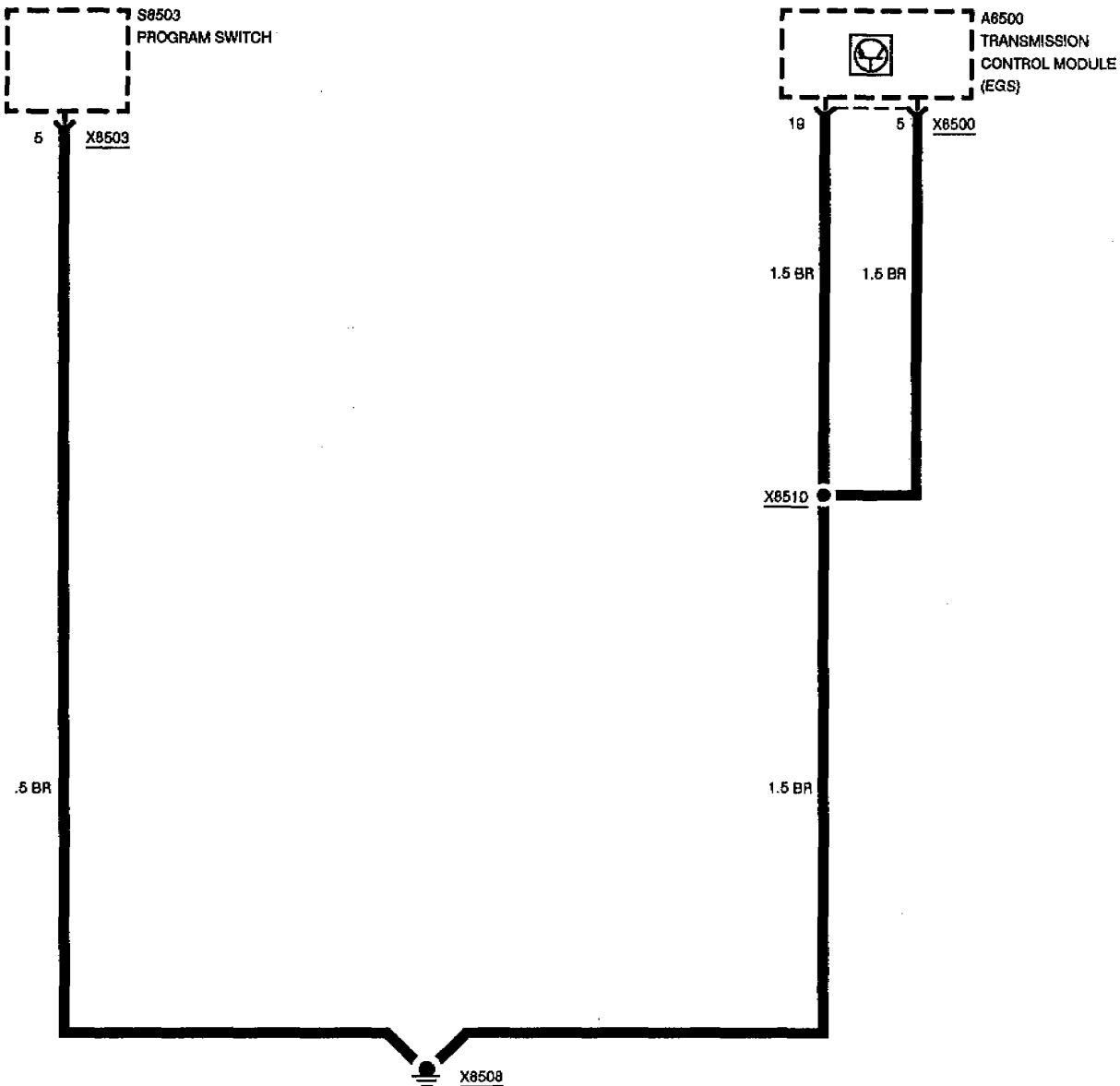


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GROUND DISTRIBUTION

535i

GROUND X8508

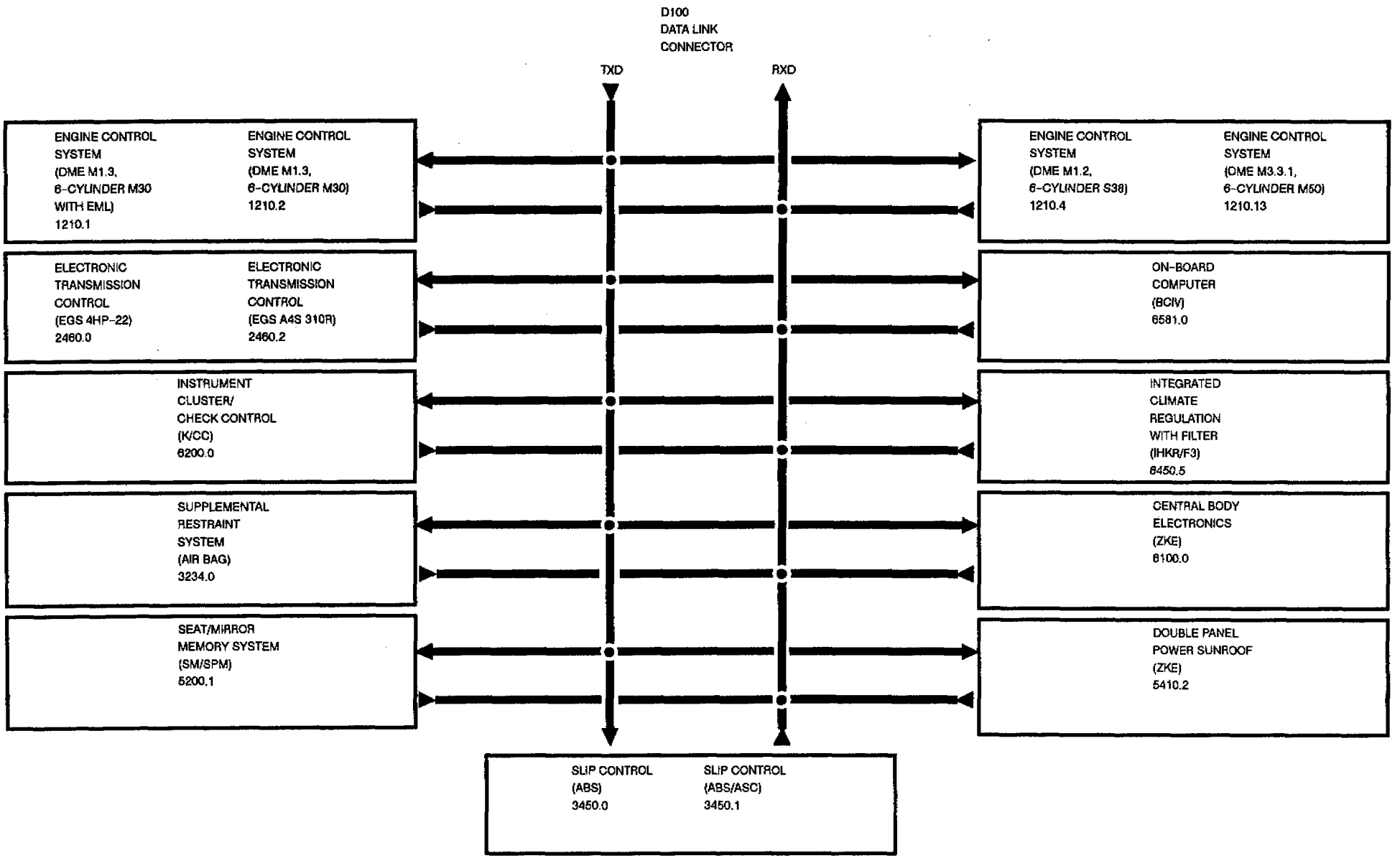


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DATA LINK

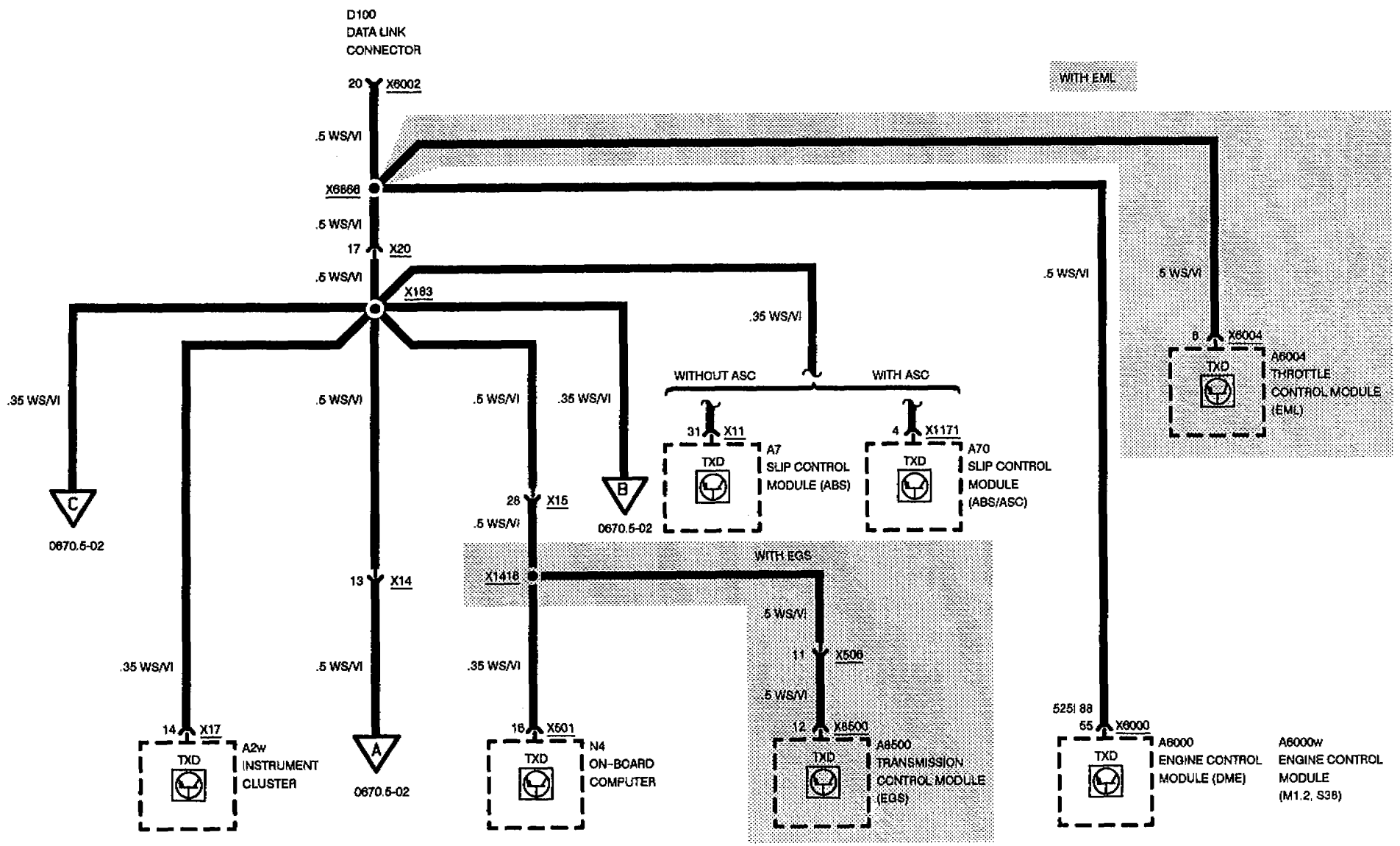
BLOCK DIAGRAM



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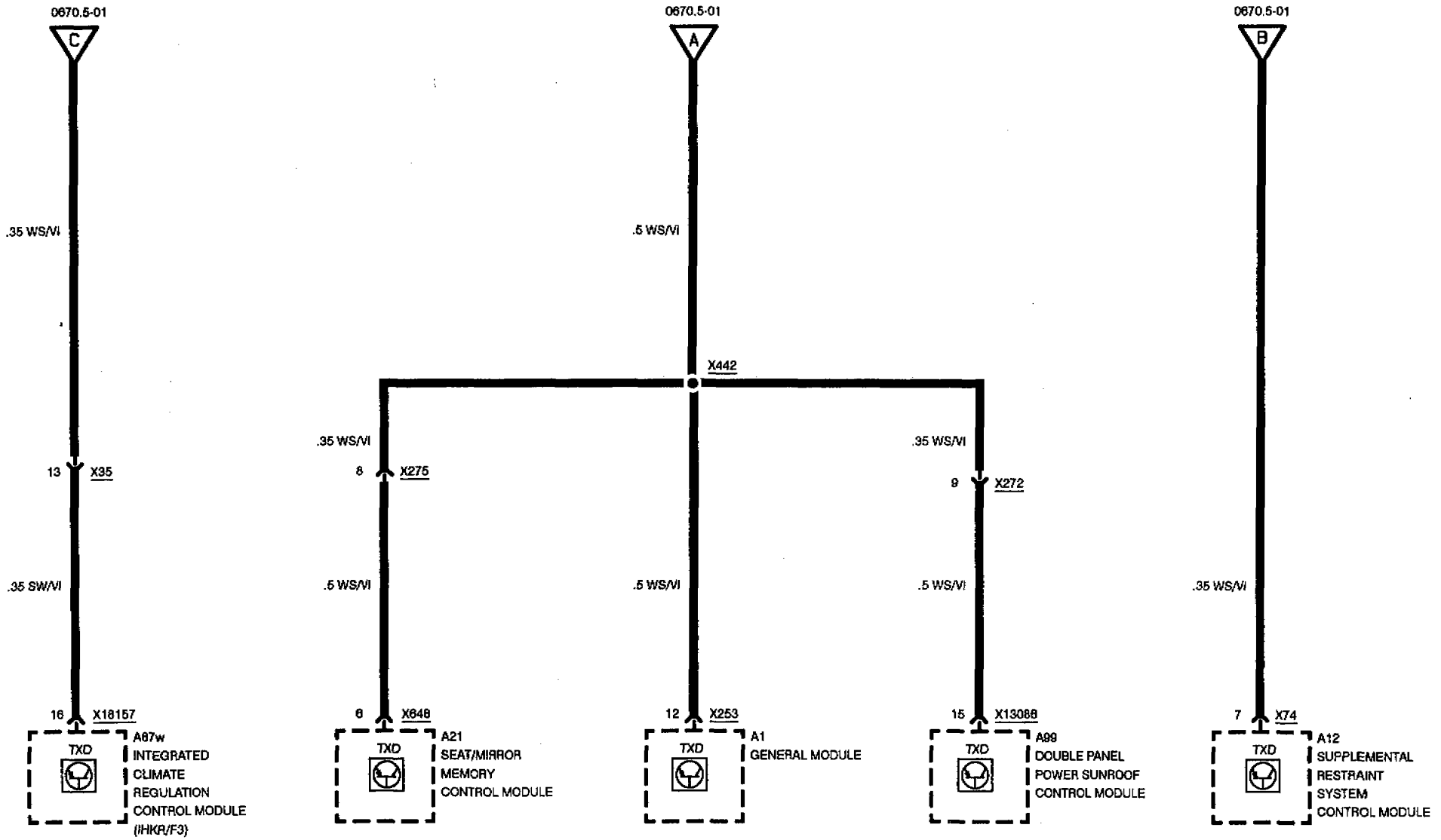
TXD, PIN 20



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DATA LINK

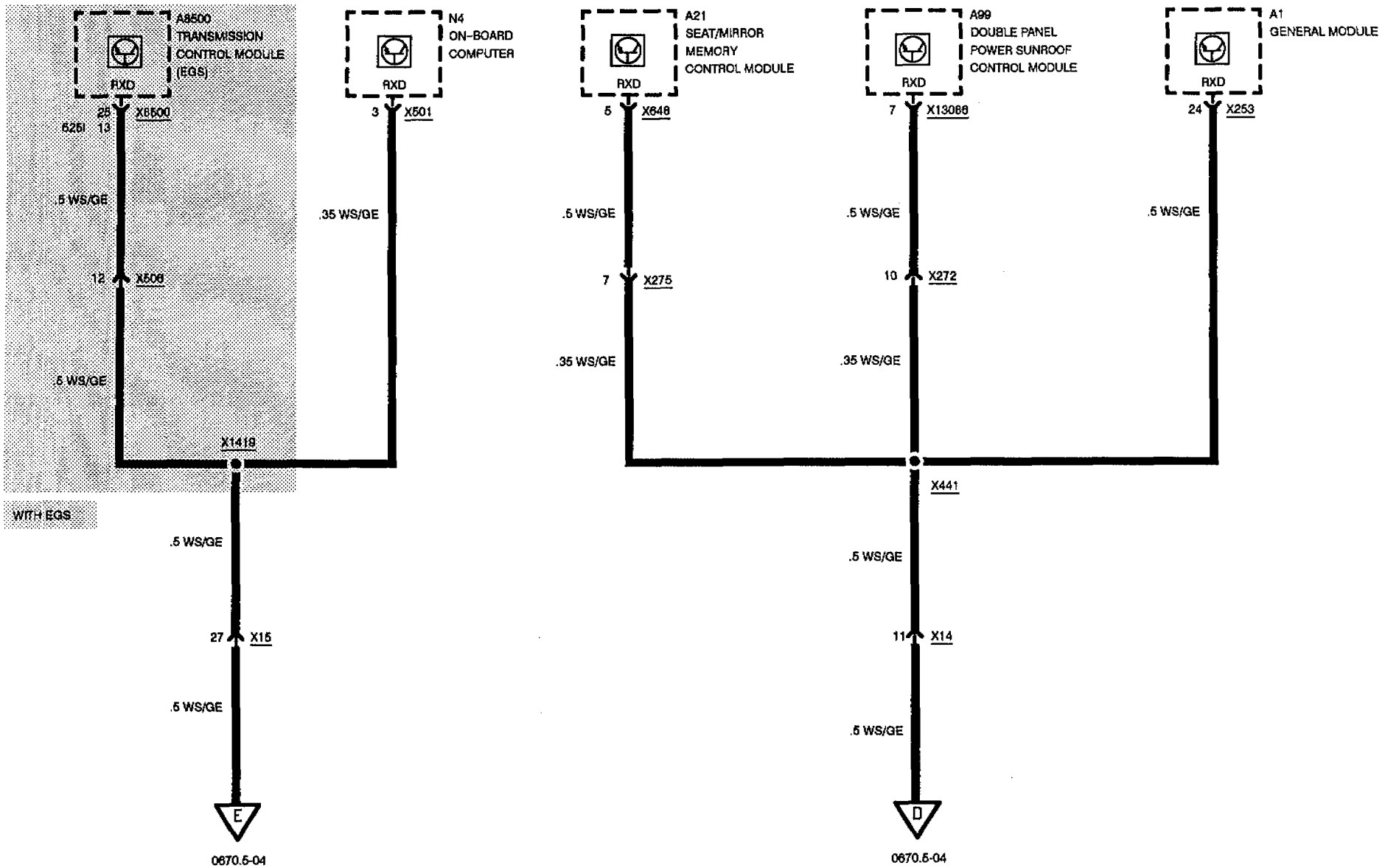
TXD, PIN 20



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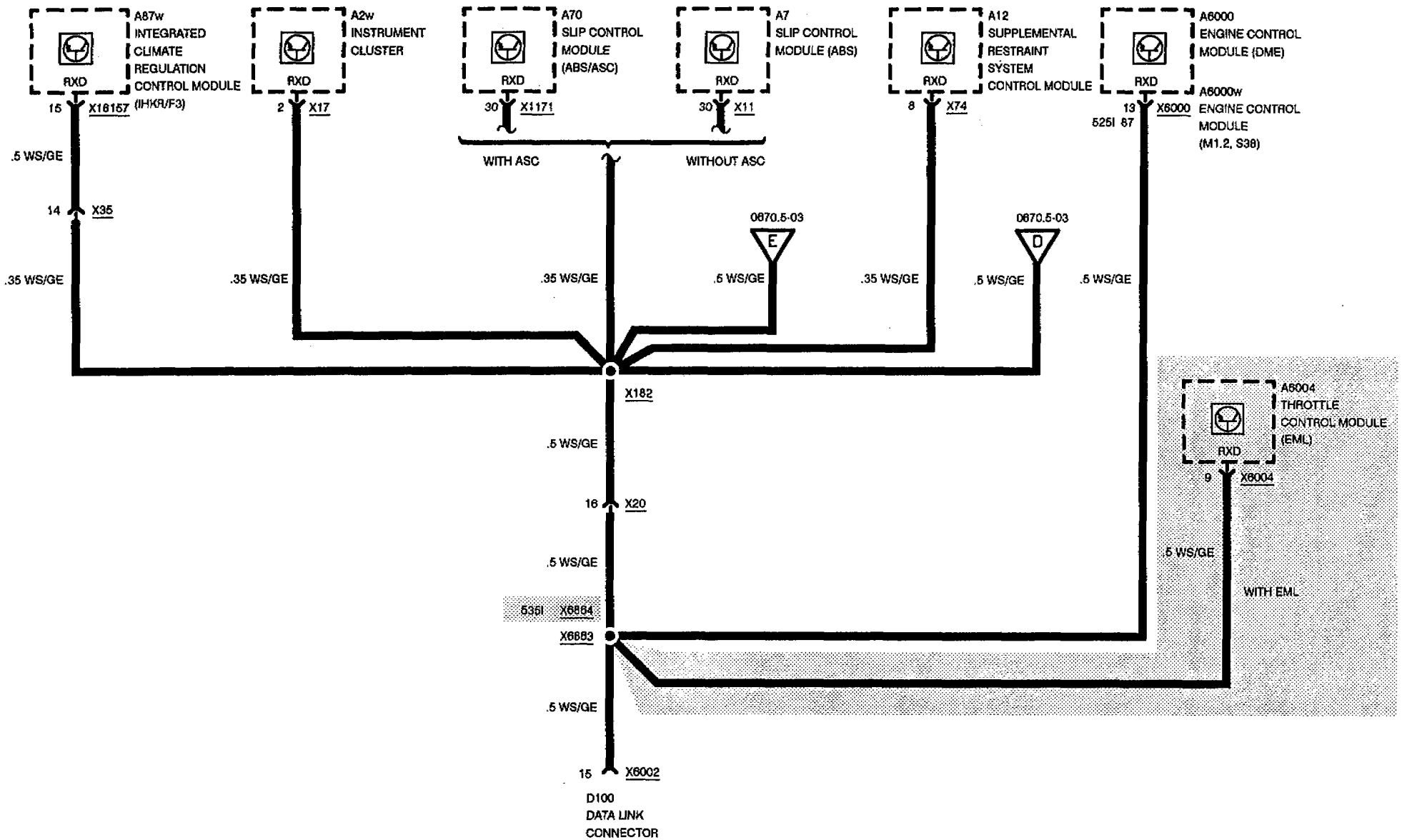
RXD, PIN 15



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DATA LINK

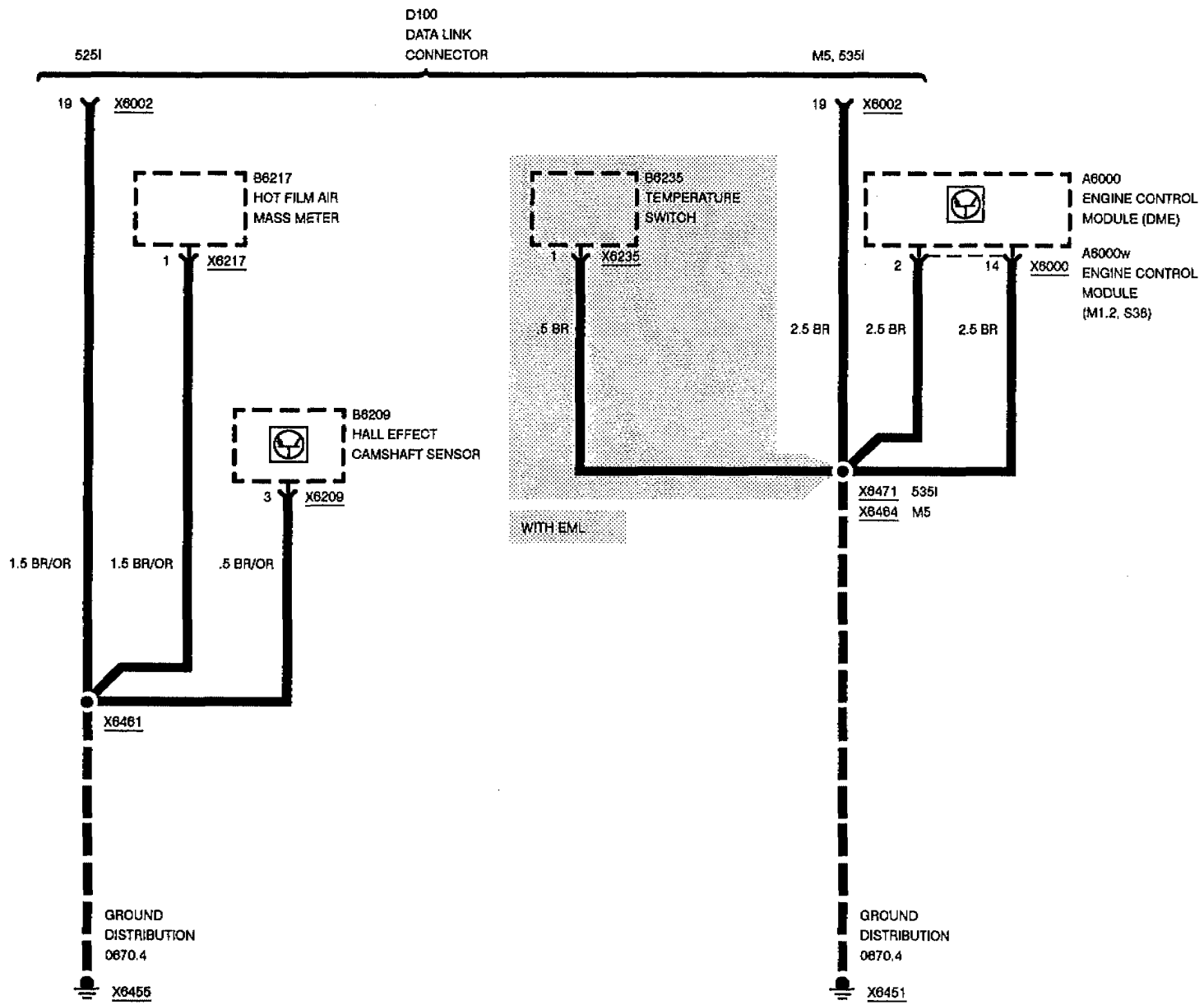
RXD, PIN 15



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DATA LINK

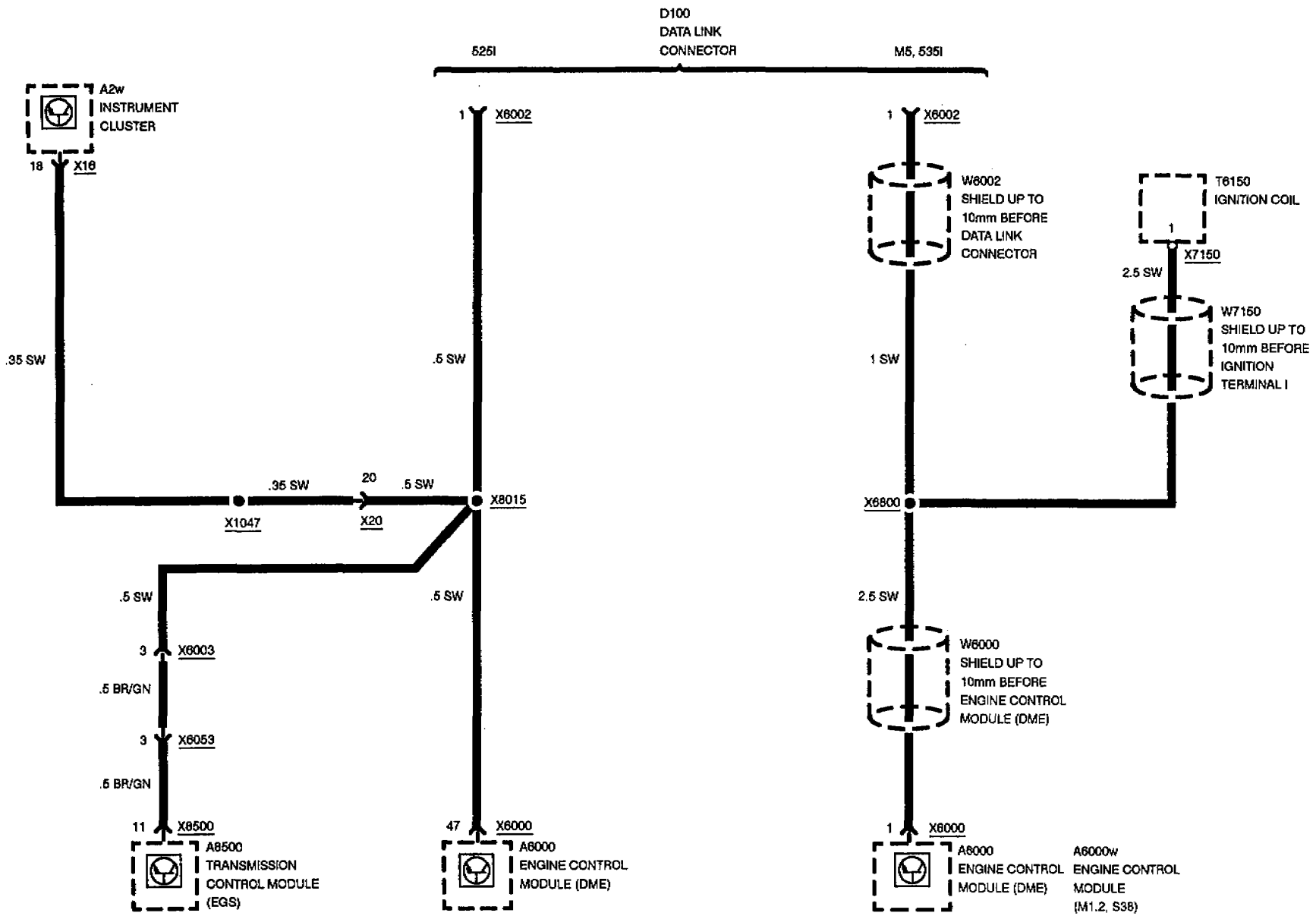
DATA LINK CONNECTOR PIN 19



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DATA LINK

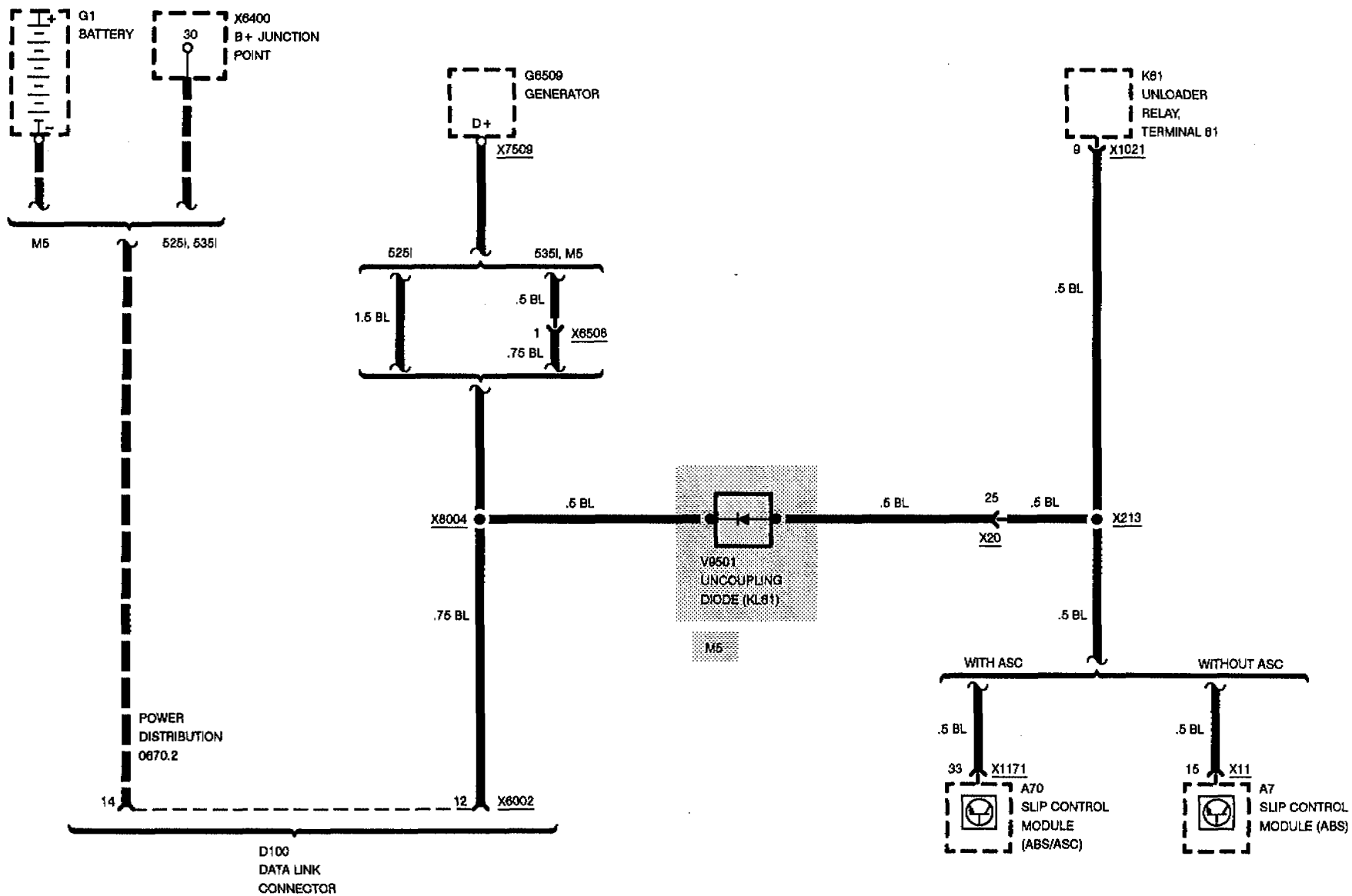
DATA LINK CONNECTOR PIN 1



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DATA LINK

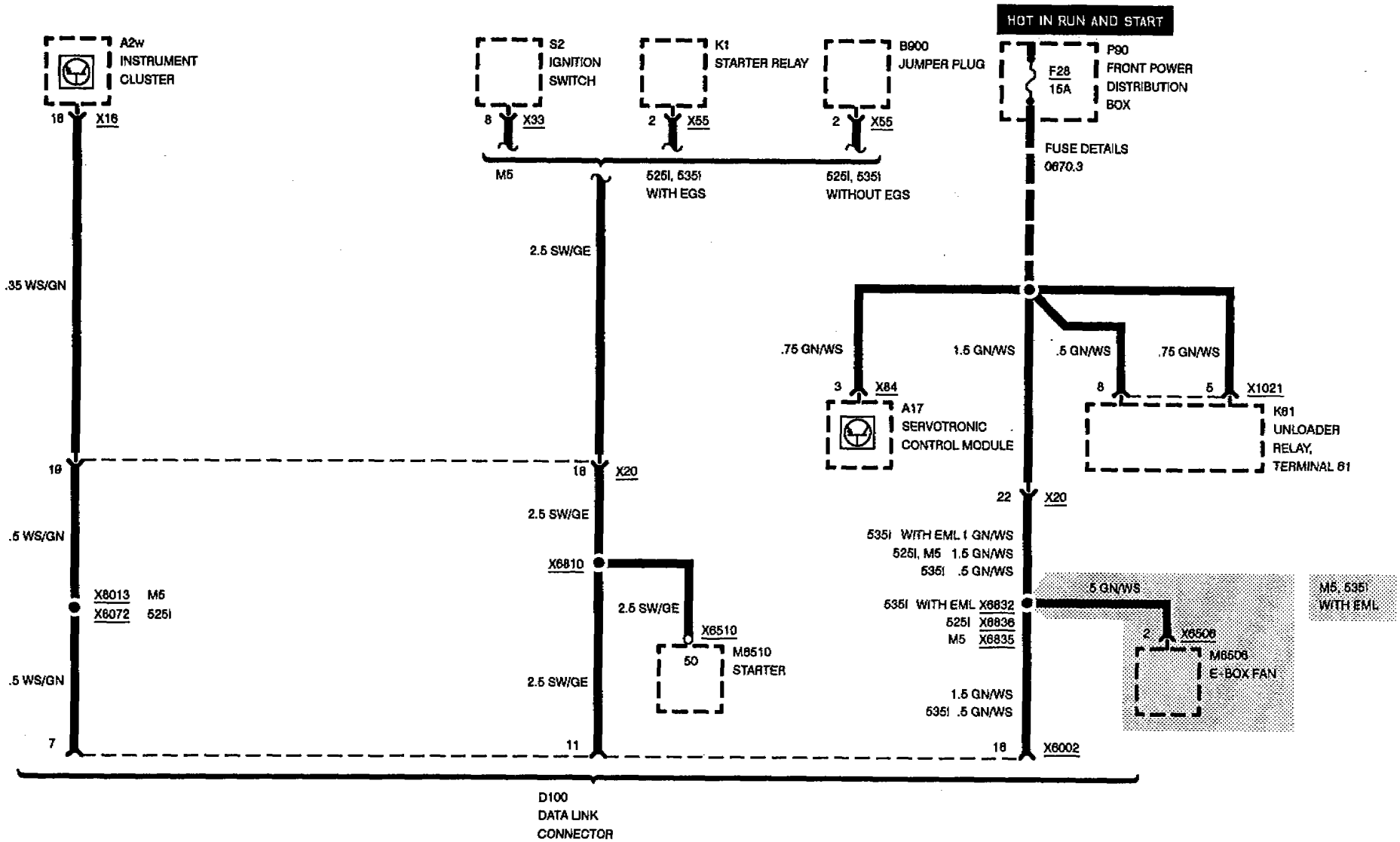
DATA LINK PINS 12 AND 14



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DATA LINK

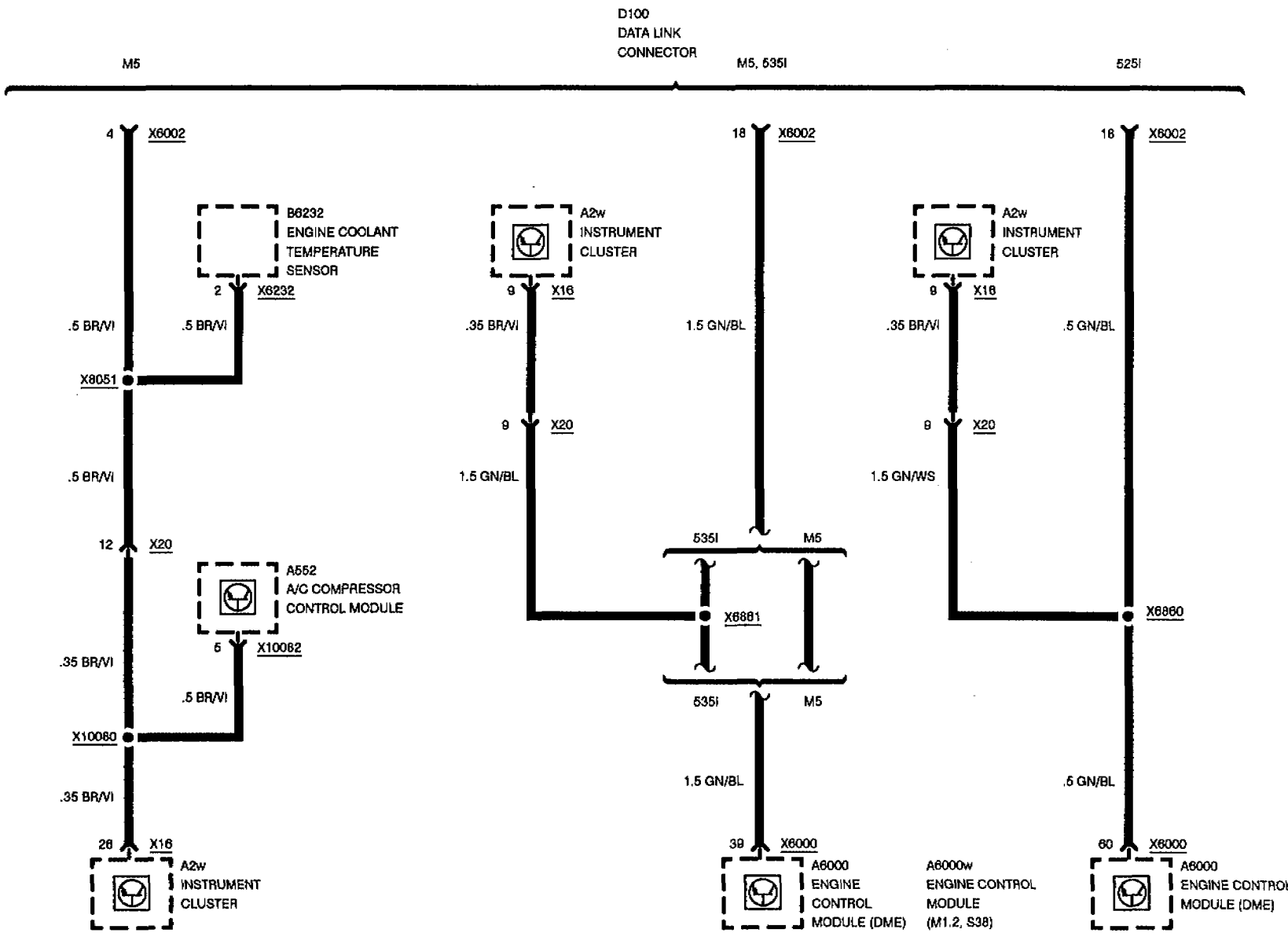
DATA LINK CONNECTOR PINS 7, 11, AND 16



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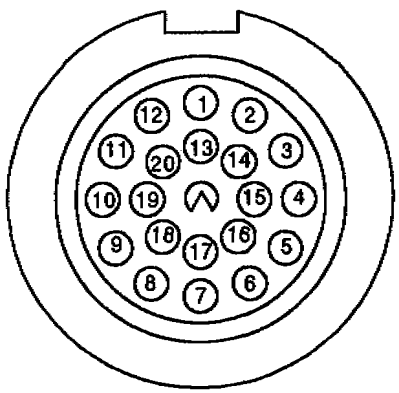
DATA LINK

DATA LINK CONNECTOR PINS 4 AND 18



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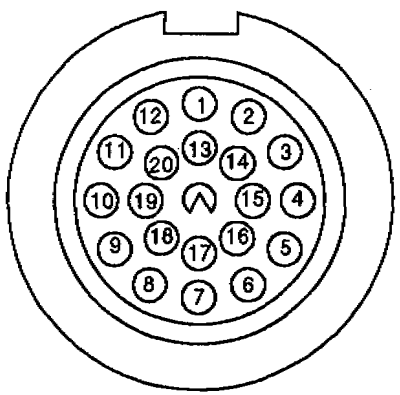
DATA LINK CONNECTOR (X6002)



PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION		WIRE COLOR
1	TD	SPEED SIGNAL		SW
2	–	NOT OCCUPIED		
3	–	NOT OCCUPIED		
4	–	NOT OCCUPIED	M5	BR/VI
5	–	NOT OCCUPIED		
6	–	NOT OCCUPIED		
7	SI	SERVICE INDICATOR REMINDER		WS/GN
8	–	NOT OCCUPIED		
9	–	NOT OCCUPIED		
10	–	NOT OCCUPIED		
11	50	VOLTAGE: IGNITION SWITCH IN START		SW/GE
12	61(D+)	GENERATOR CHARGE INDICATOR		BL
13	–	NOT OCCUPIED		
14	30	VOLTAGE: HOT AT ALL TIMES		RT
15	RXD	RECEIVE		WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN		GN/WS
17	–	NOT OCCUPIED		
18	PGSP	ENGINE CONTROL (DME) PROGRAMMING LINE		GN/BL
19	31	GROUND		BR/OR
20	TXD	TRANSMIT		WS/VI

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DATA LINK CONNECTOR (X6002)

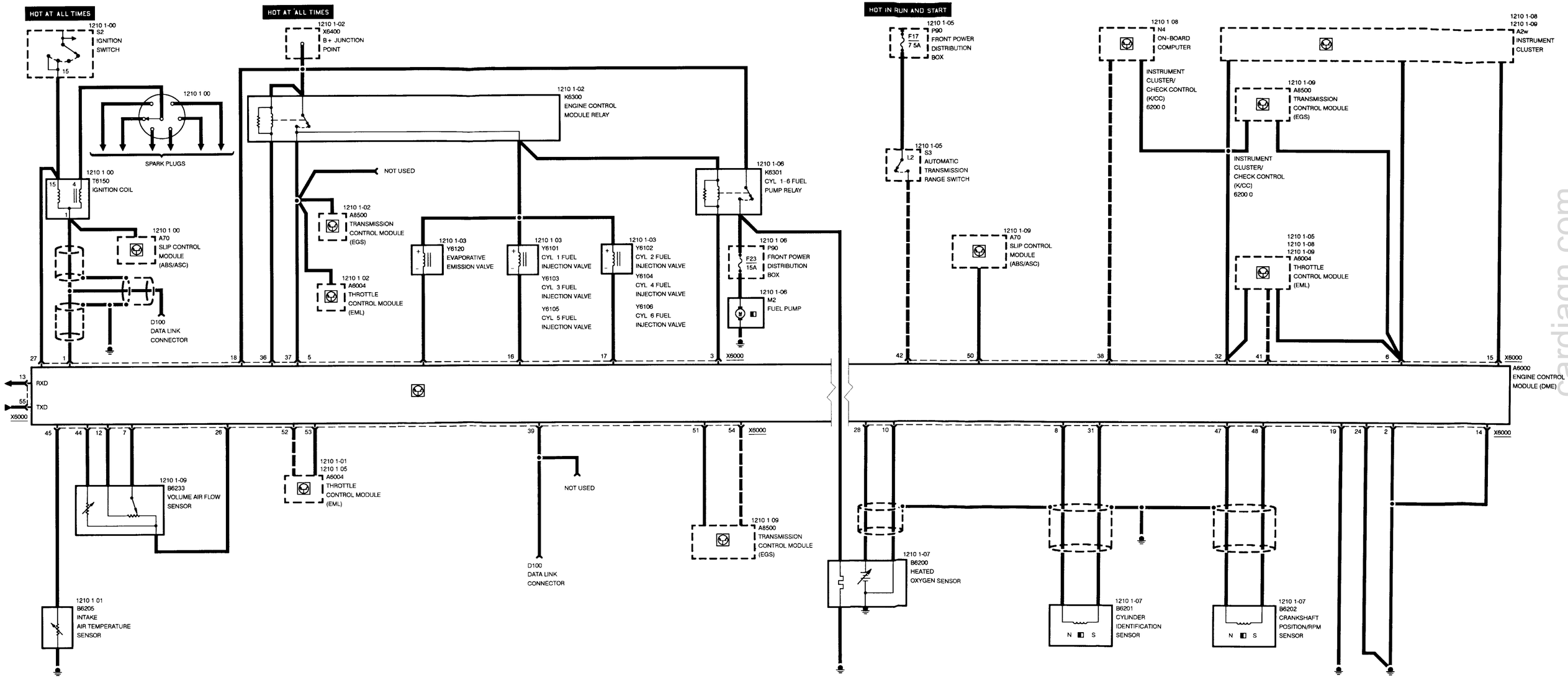


PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION		WIRE COLOR
1	1	IGNITION COIL		SW
2	–	NOT OCCUPIED		
3	–	NOT OCCUPIED		
4	FT	VOLTAGE: TEMPERATURE SENSOR	M5	BR/VI
5	–	NOT OCCUPIED		
6	–	NOT OCCUPIED		
7	SI	SERVICE INDICATOR REMINDER		WS/GN
8	–	NOT OCCUPIED		
9	–	NOT OCCUPIED		
10	–	NOT OCCUPIED		
11	50	VOLTAGE: IGNITION SWITCH IN START		SW/GE
12	61(D+)	GENERATOR CHARGE INDICATOR		BL
13	–	NOT OCCUPIED		
14	30	VOLTAGE: HOT AT ALL TIMES		RT
15	RXD	RECEIVE		WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN		GN/WS
17	–	NOT OCCUPIED		
18	PGSP	ENGINE CONTROL (DME) PROGRAMMING LINE		GN/BL
19	31	GROUND		BR
20	TXD	TRANSMIT		WS/VI

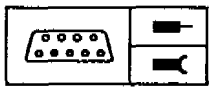
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12/93 1210 1 1993
12/93 1210 1 1993



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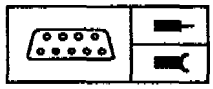
Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Ignition coil control	Ignition coil
2	M	Ground	Ground point
3	A	Fuel pump relay control	Fuel pump relay, terminal 85
4		Not used	
5	A	Evaporative emission valve control	Evaporative emission valve
6	A	Crankshaft RPM speed signal	Instument cluster
7	E	Volume air flow sensor signal	Volume air flow sensor
8	E	Cylinder indentification sensor (ignition)	Cylinder identification sensor
9		Not used	
10	M	Oxygen sensor signal ground	Heated oxygen sensor
11		Not used	
12	A	Voltage supply, volume air flow sensor	Volume air flow sensor
13	E	RxD diagnostic data link	Data link connector
14	M	Ground, fuel injection valves	Ground point
15	A	"Check engine" indicator control	Instrument cluster
16	A	Fuel injection valve control	Cyl. 1, cyl. 3 and cyl. 5 fuel injection valves
17	A	Fuel injection valve control	Cyl. 2, cyl. 4 and cyl. 6 fuel injection valves
18	E	Terminal 30 voltage supply	B+ junction point
19	M	Ground for electronics and shielding of sensors	Ground point
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
25		Not used	
26	M	Ground, volume air flow sensor	Volume air flow sensor
27	E	Ignition switch, terminal 15	Ignition switch
28	E	Oxygen sensor signal	Heated oxygen sensor
29		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments

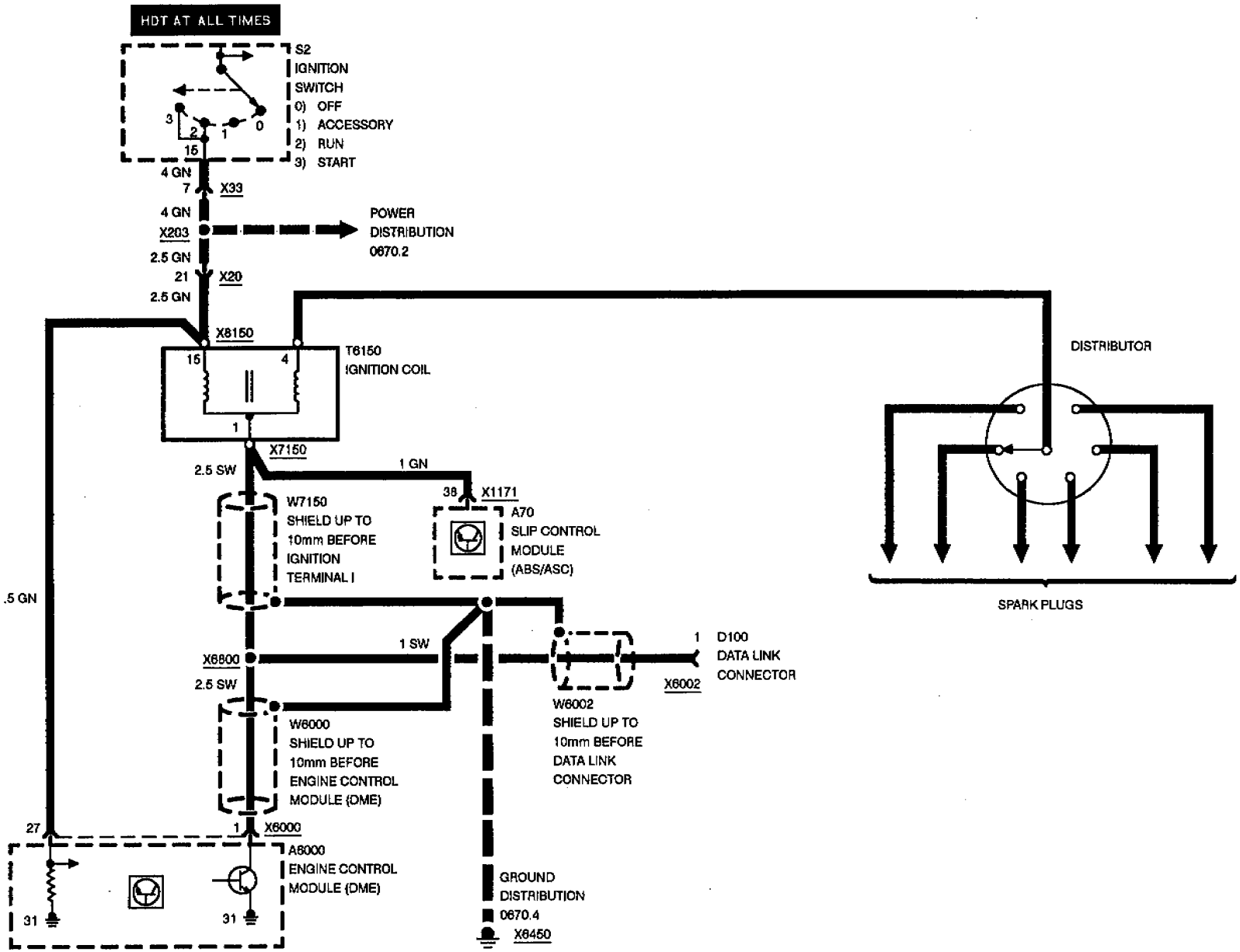
Pin	Type	Description/Function	Connection
30		Not used	
31	E	Cylinder identification sensor (ignition)	Cylinder identification sensor
32	A	ti measurement signal (KVA signal, fuel consumption)	Instrument cluster
33		Not used	
34		Not used	
35		Not used	
36	A	Engine control module relay control	Engine control module relay
37	E	Voltage supply	Engine control module relay
38	E	Drive-away protection signal (code)	On-board computer
39	E	Programming voltage	Data link connector
40		Not used	
41	E	Auxiliary fan signal	Electronic throttle module (EML)
42	E	Drive range P/N	Automatic transmission range switch
43		Not used	
44	E	Intake air temperature	Volume air flow sensor
45	E	Engine intake air temperature	Engine intake air temperature sensor
46		Not used	
47	E	Inductive pulse generator	Crankshaft RPM sensor
48	E	Inductive pulse generator	Crankshaft RPM sensor
49		Not used	
50	E	Torque cutout signal	Slip control module (ABS/ASC)
51	E	Ignition timing intervention	Transmission control module (EGS)
52	E	Idle signal	Electronic throttle module (EML)
53	E	Wide open signal	Electronic throttle module (EML)
54	E	Torque converter clutch WK	Transmission control module (EGS)
55	E/A	TxD diagnostic data lilnk	Data link connector

E = Input, A = Output, M = Ground

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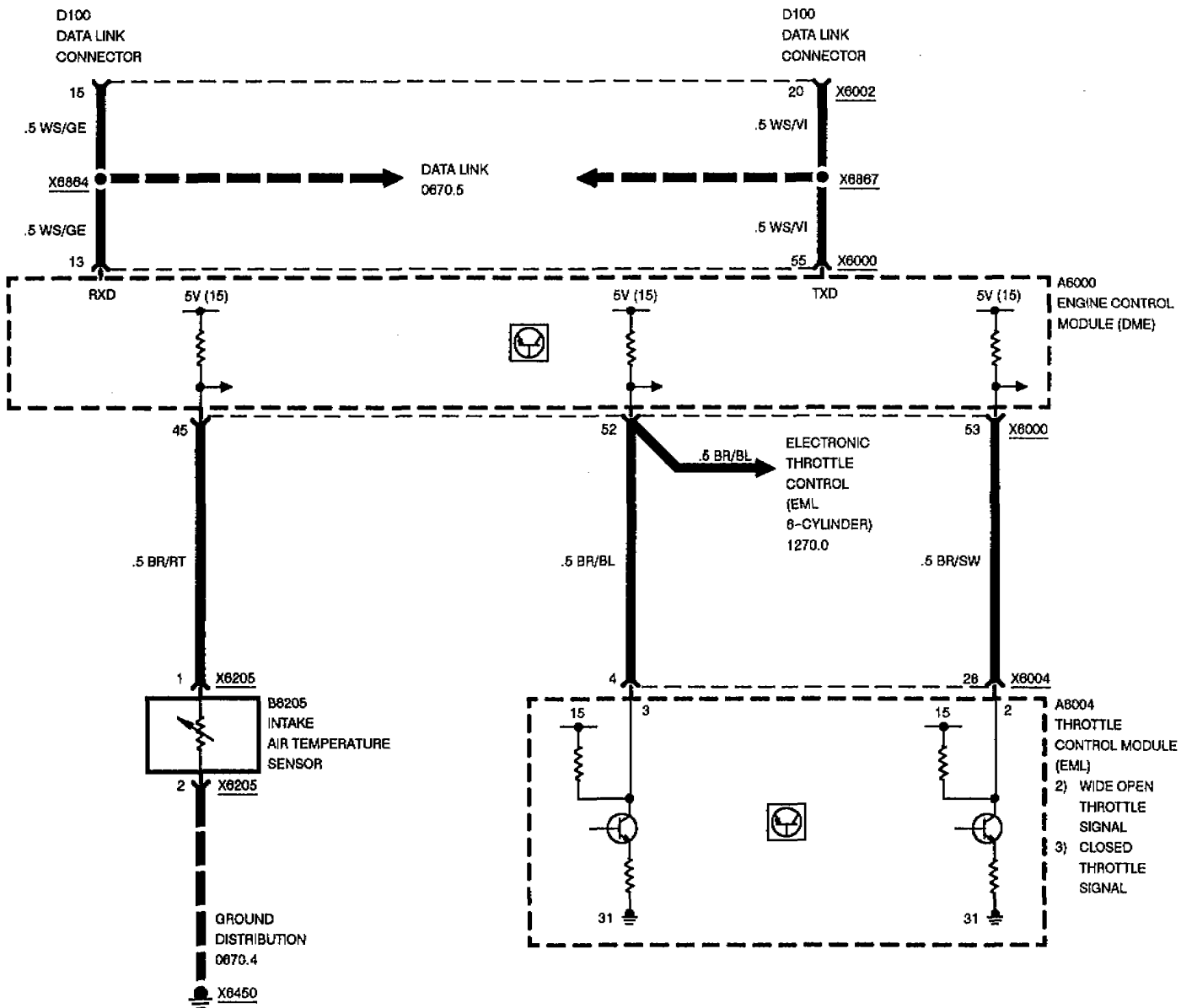
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)



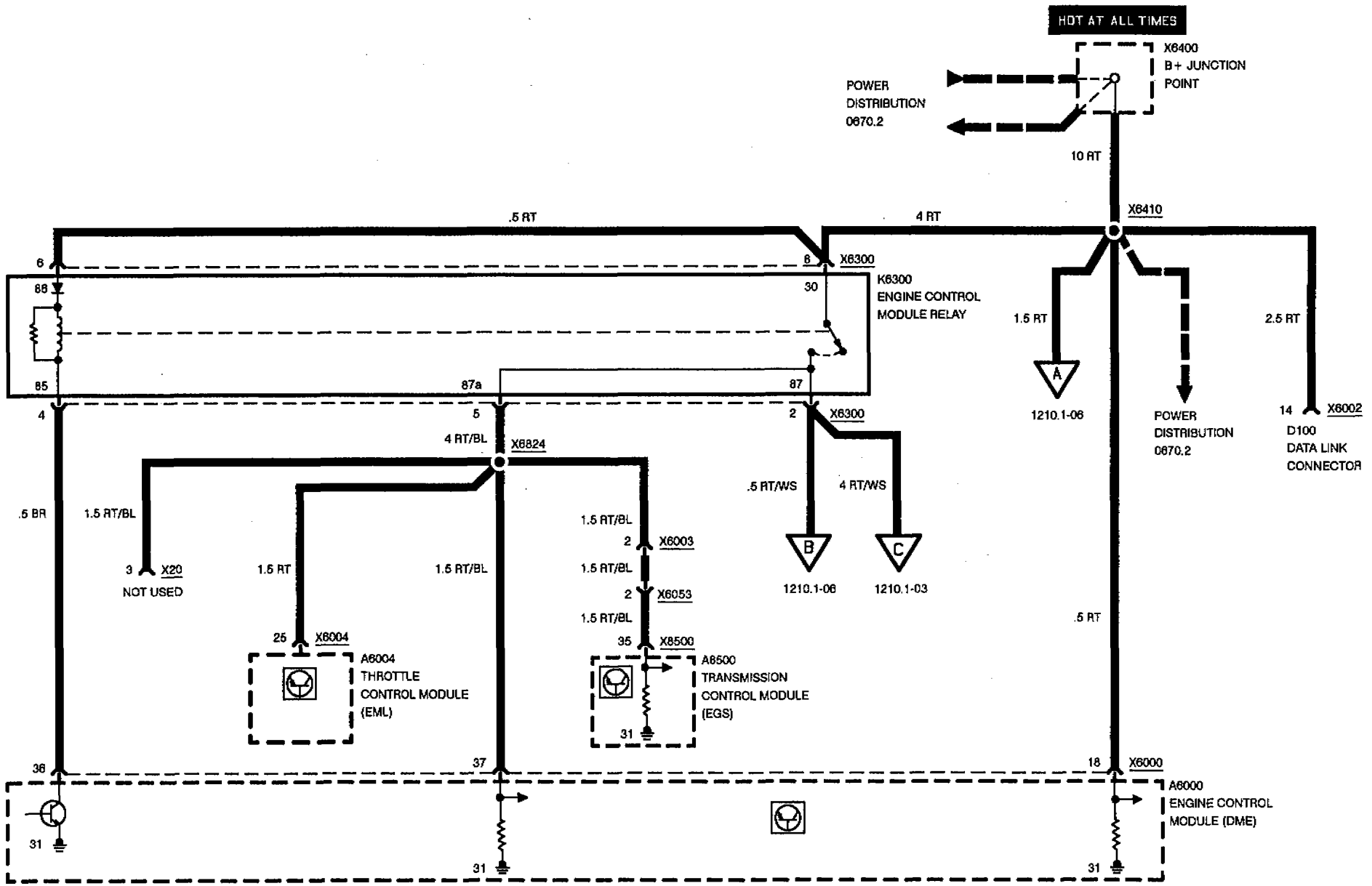
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)



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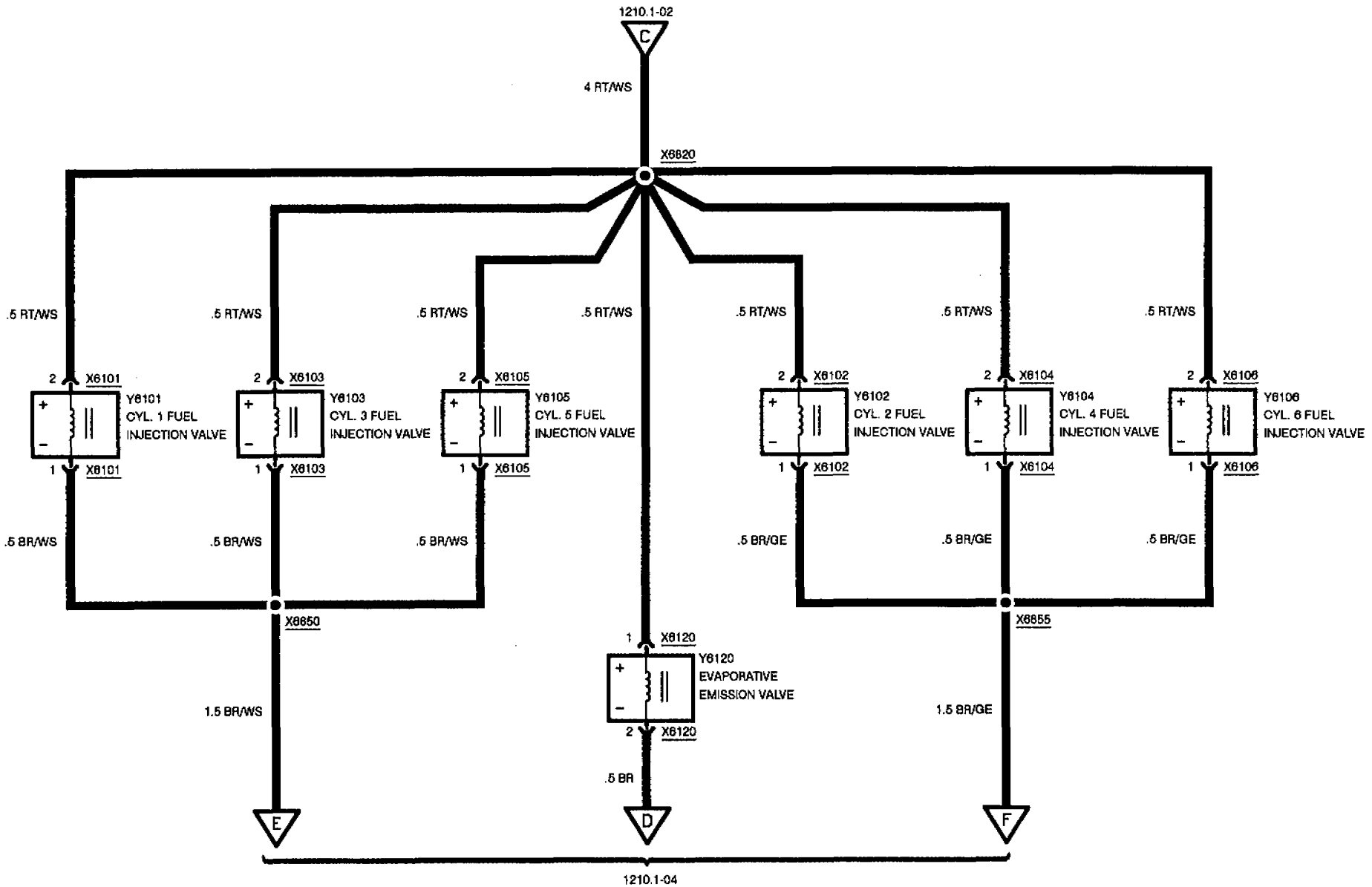
ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)



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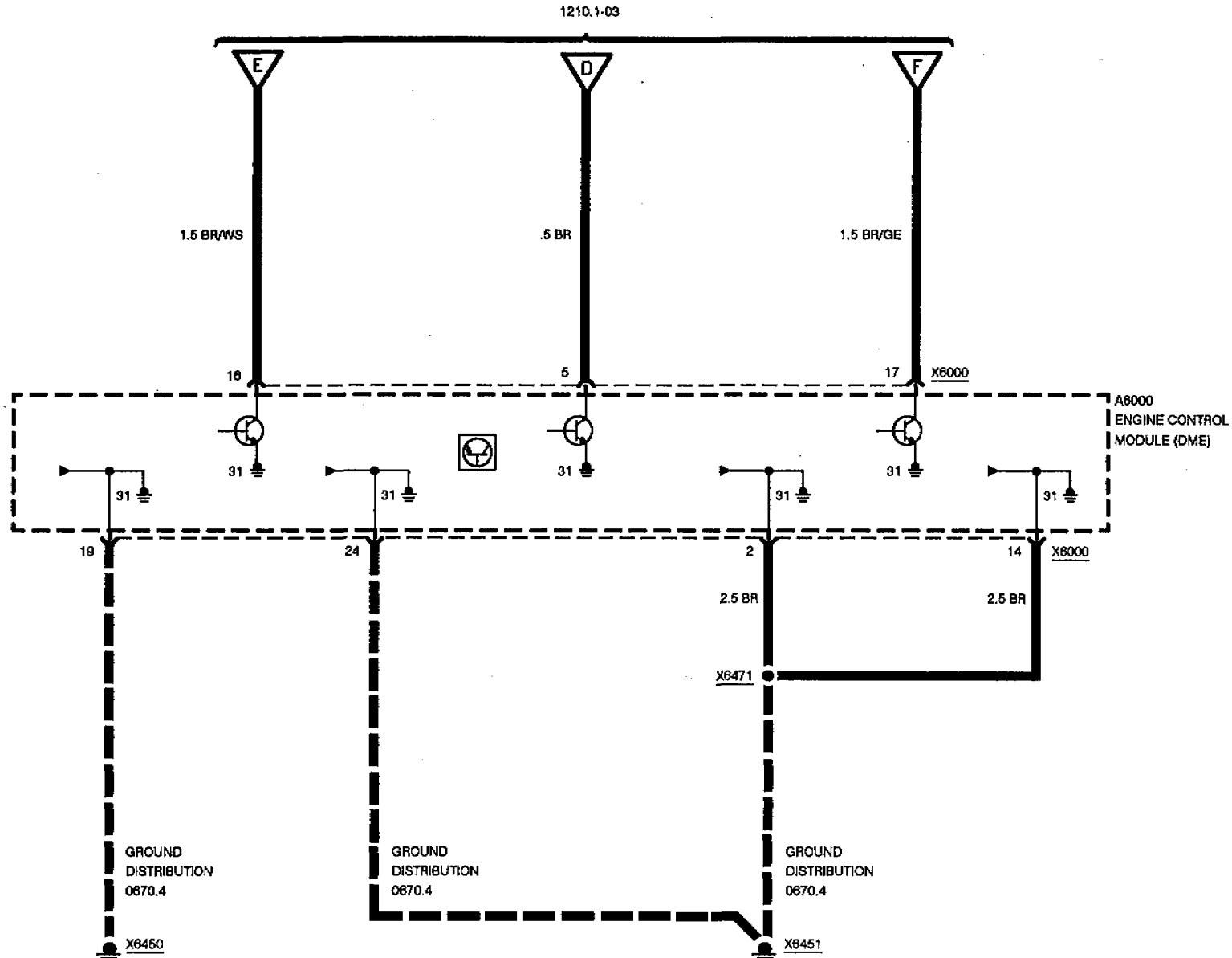
ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

FUEL INJECTION VALVES



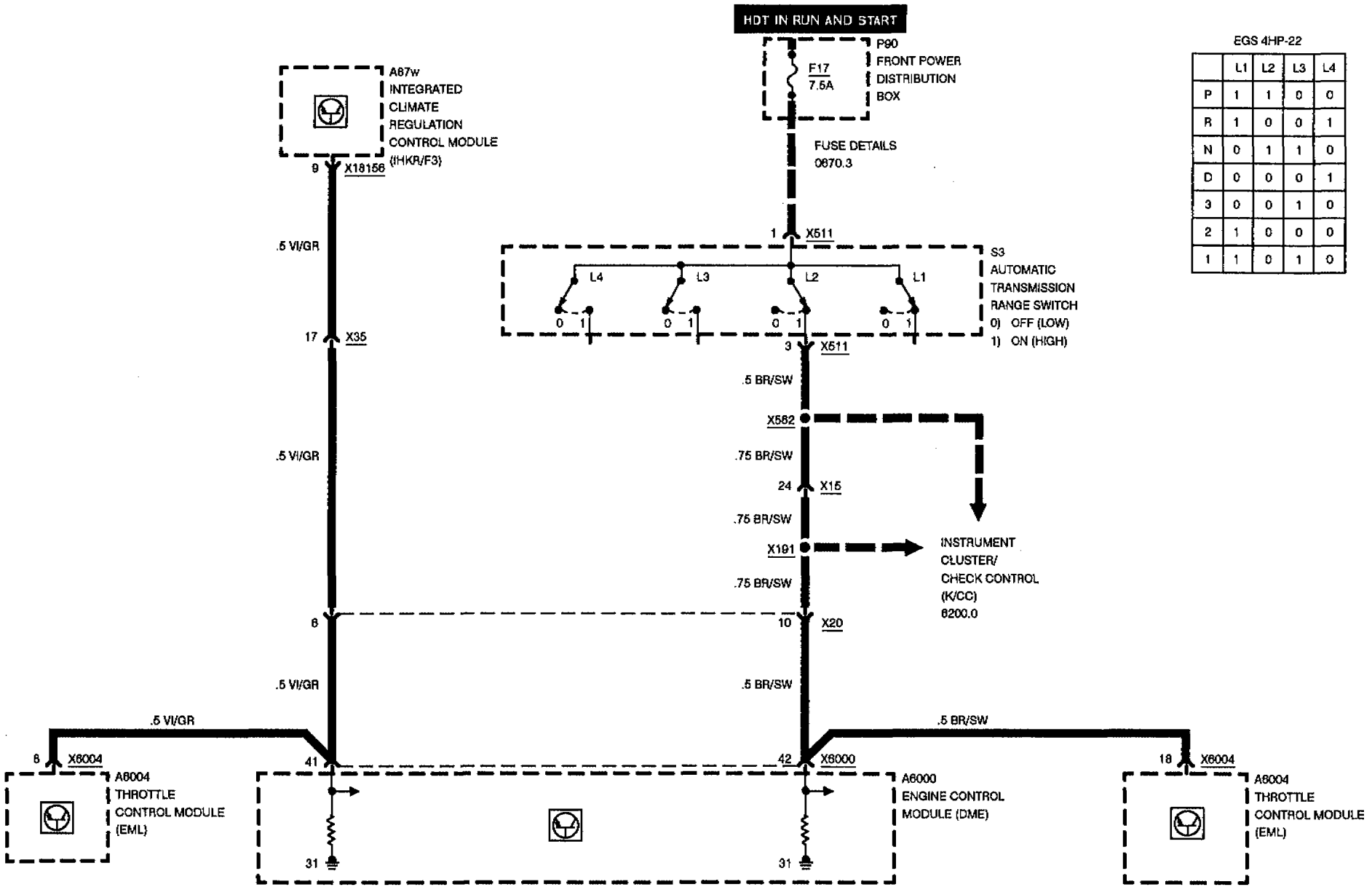
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)



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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

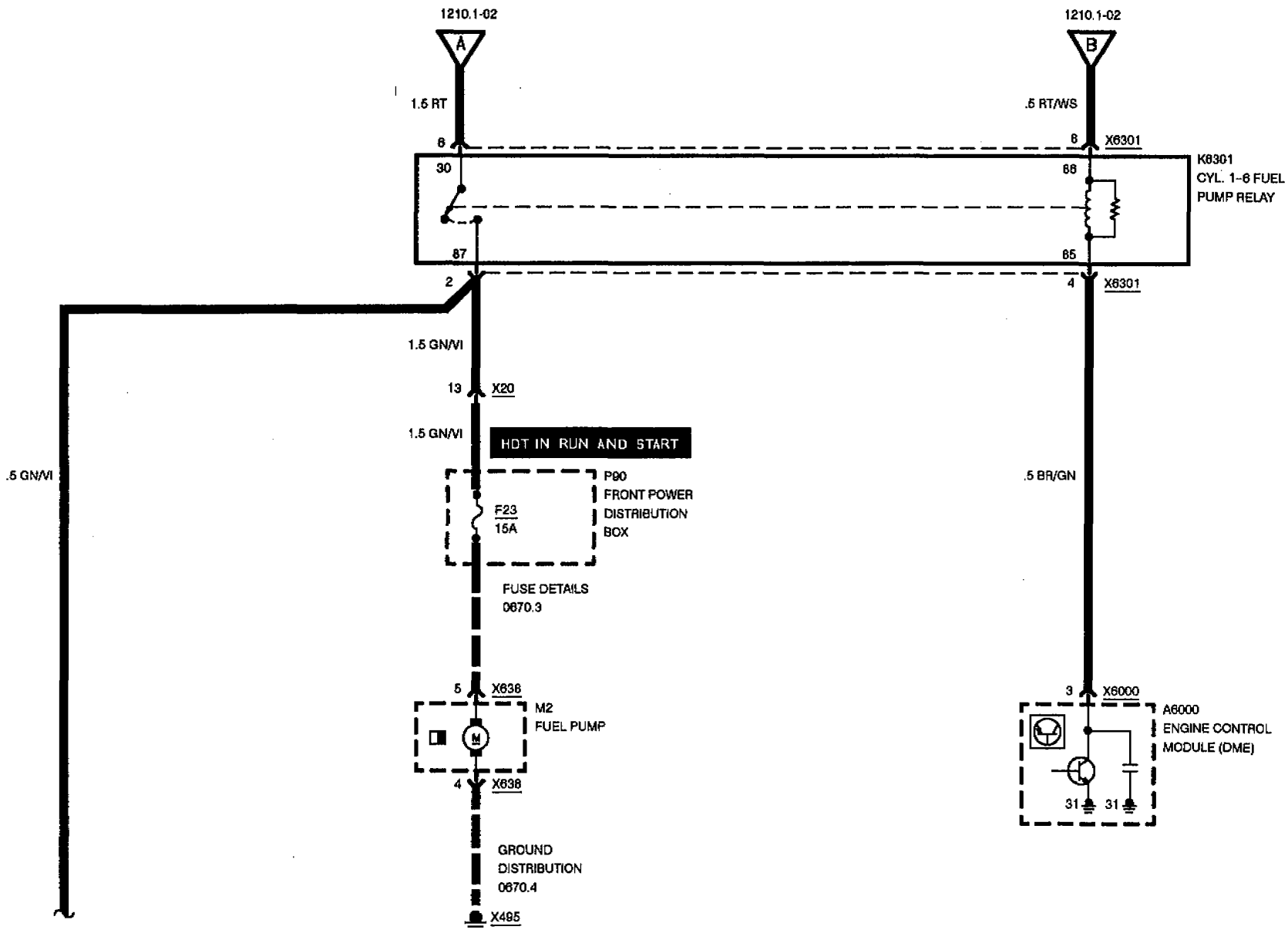


EGS 4HP-22

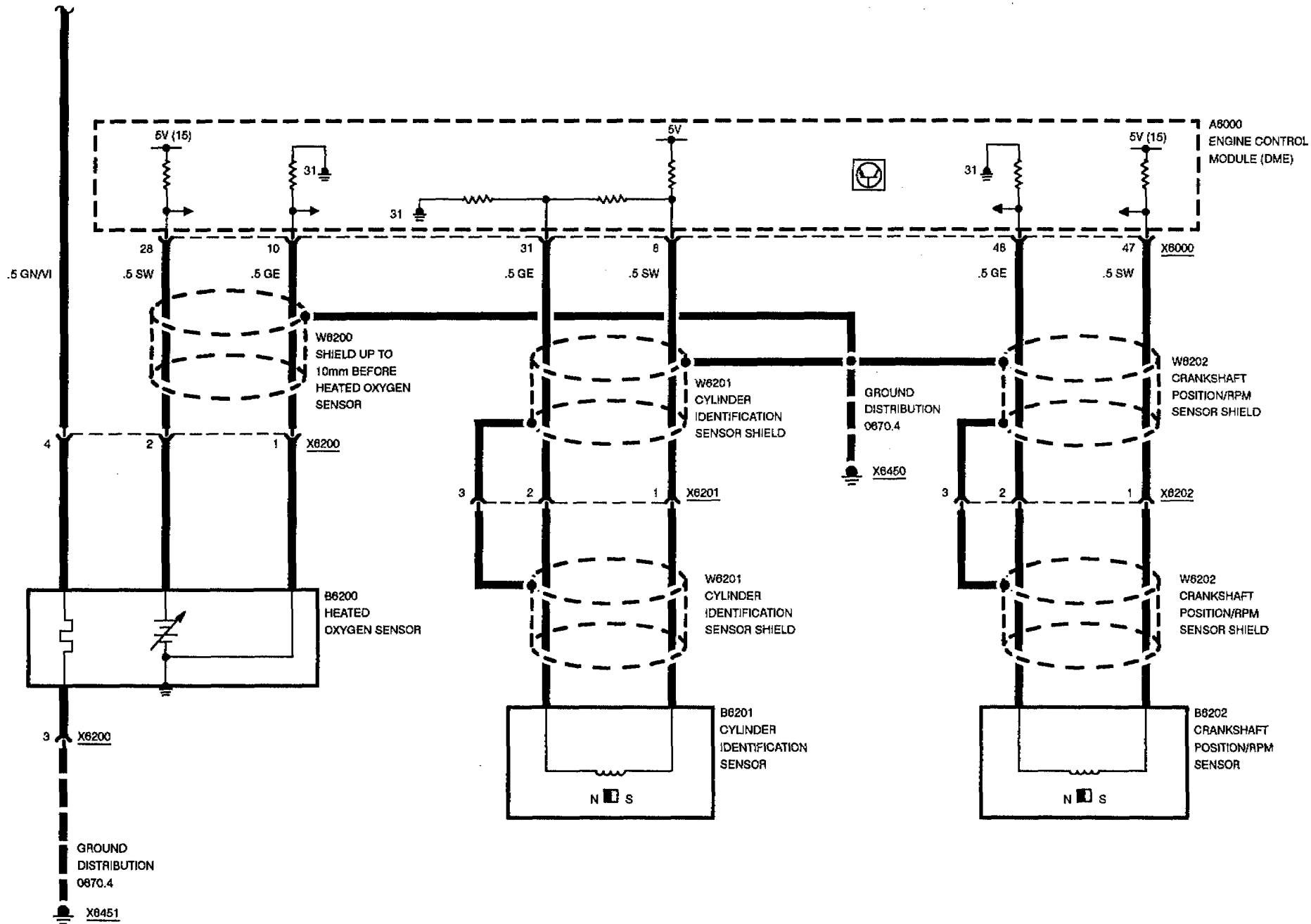
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R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

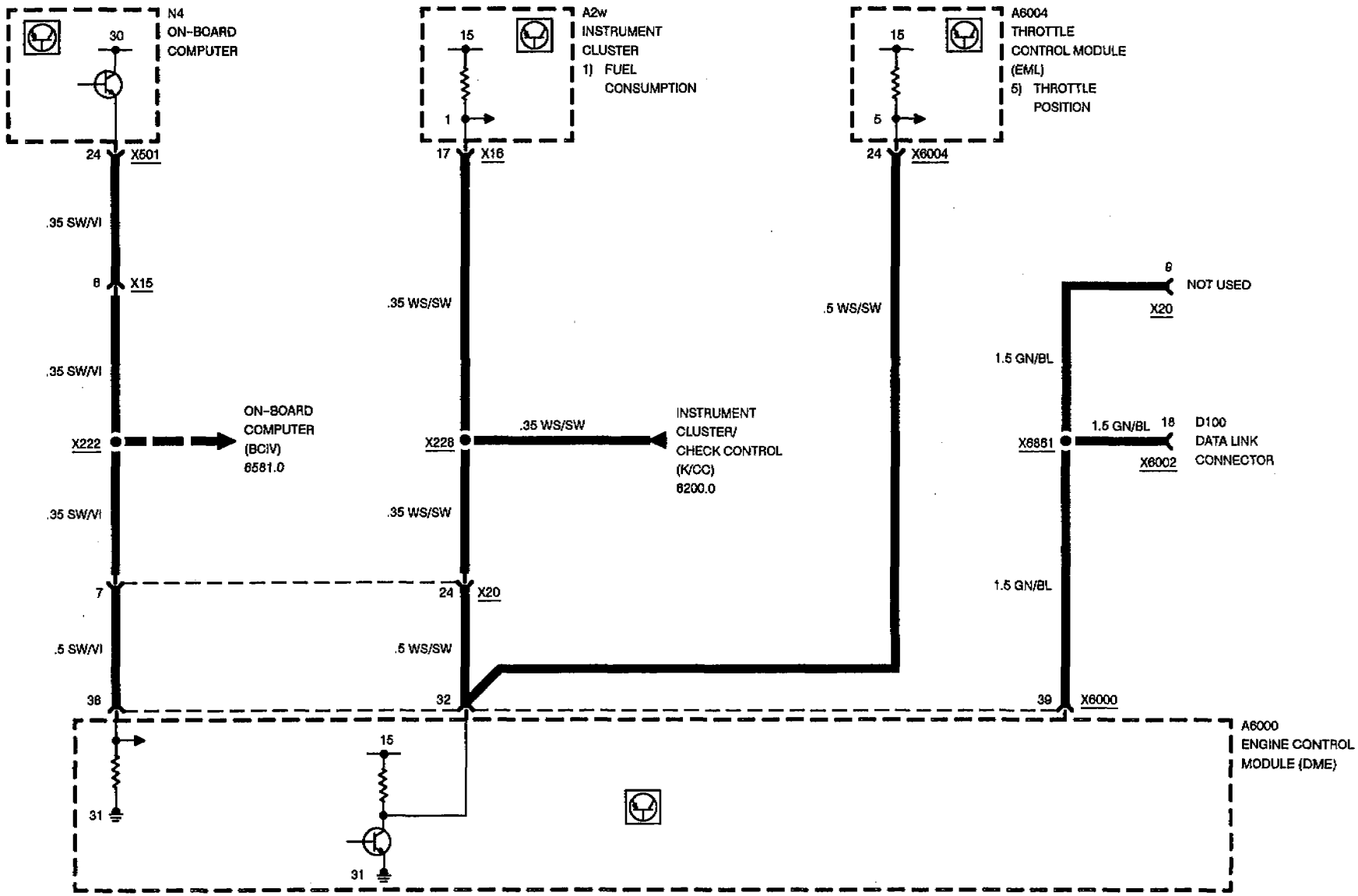


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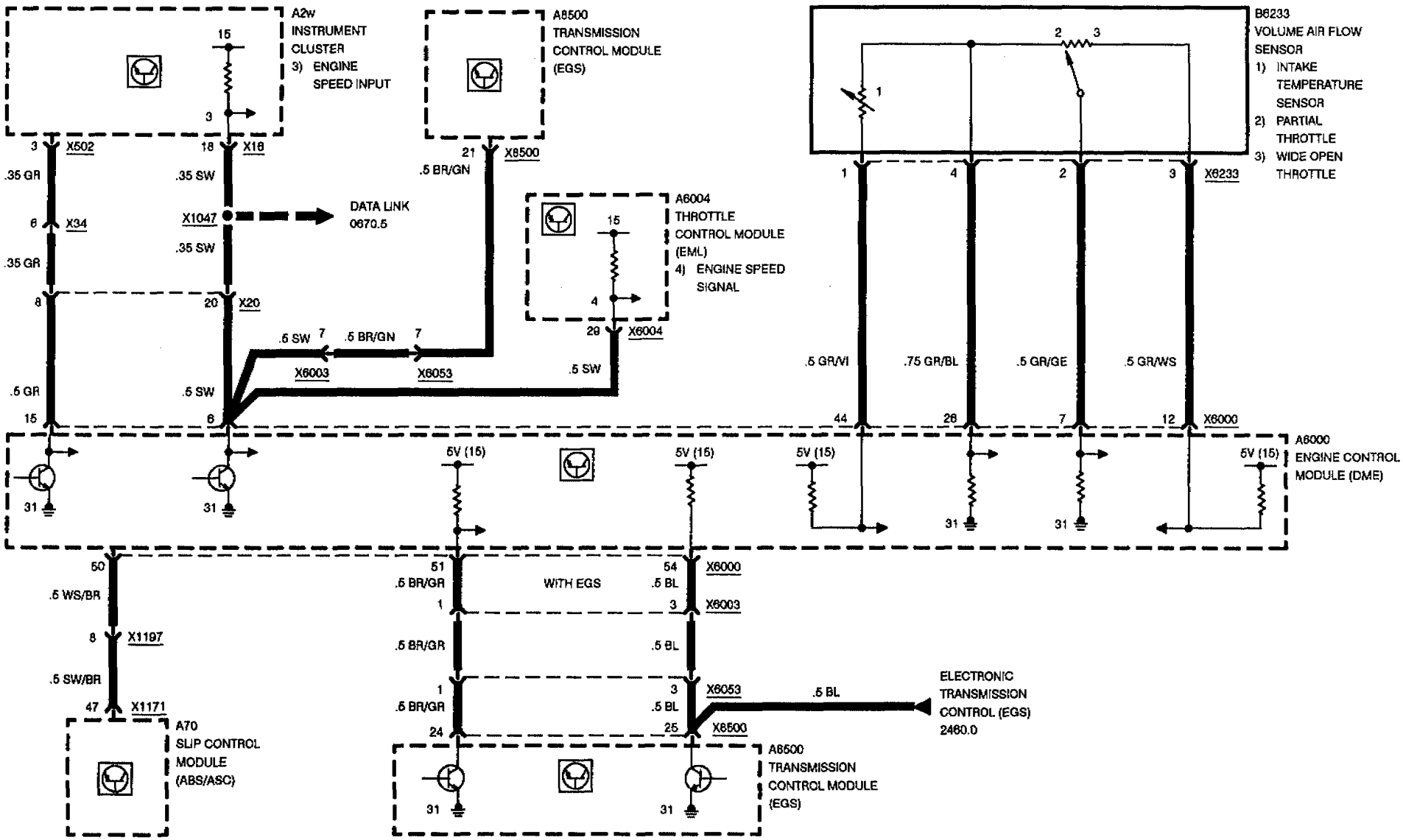
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)



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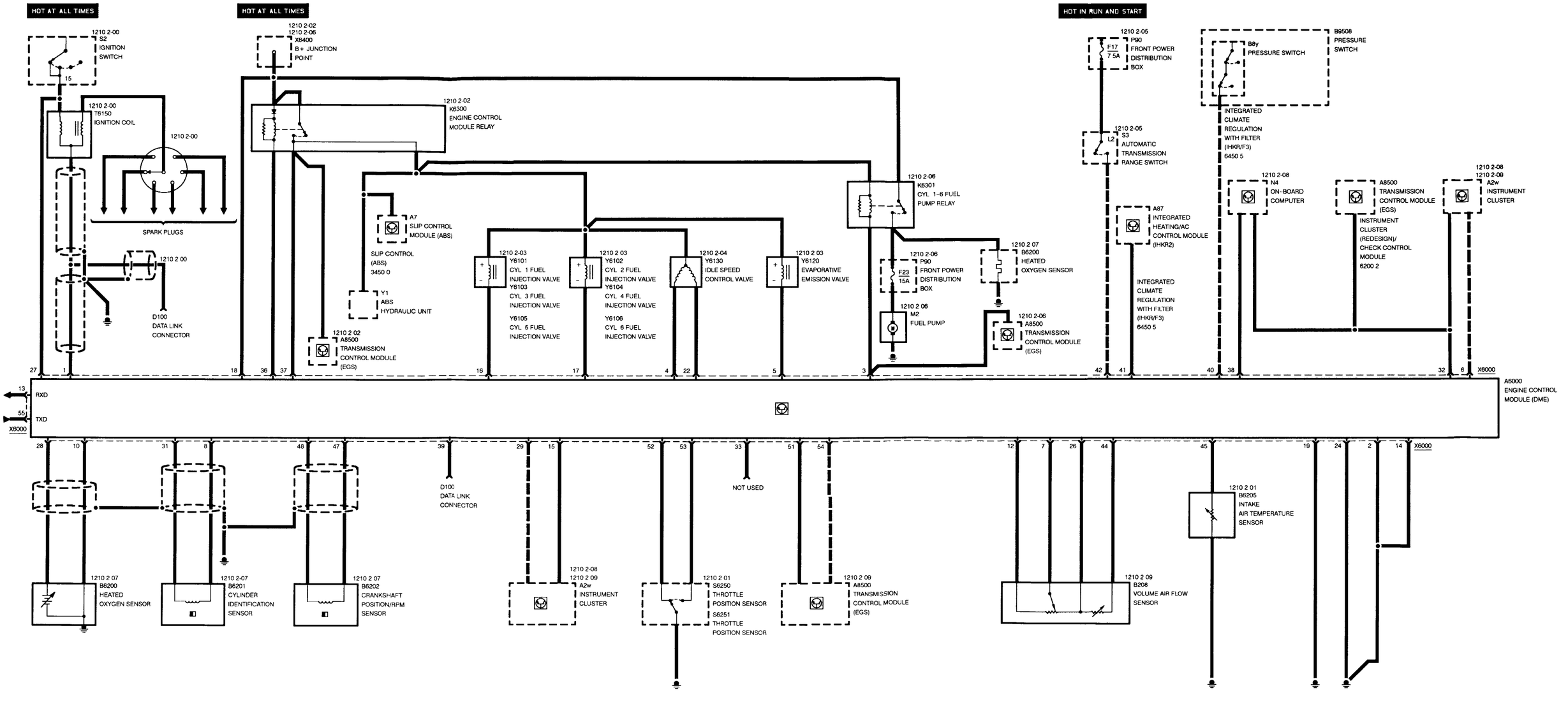
ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)



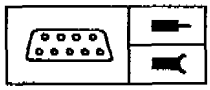
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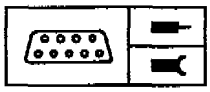
Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Ignition coil control	Ignition coil
2	M	Ground	Ground point
3	A	Fuel pump relay control and TR signal (crankshaft reference)	Fuel pump relay and transmission control module (EGS)
4	A	Idle speed control valve–close winding control	Idle speed control valve
5	A	Evaporative emission valve control	Evaporative emission valve
6	A	Crankshaft RPM speed signal	Instrument cluster
7	E	Volume air flow sensor signal	Volume air flow sensor
8	E	Cylinder identification sensor (ignition)	Cylinder identification sensor
9		Not used	
10	M	Oxygen sensor signal ground	Heated oxygen sensor
11		Not used	
12	A	Voltage supply, volume air flow sensor	Volume air flow sensor
13	E	RxD diagnostic data link	Data link connector
14	M	Ground, fuel injection valves	Ground point
15	A	"Check engine" indicator control	Instrument cluster
16	A	Fuel injection valve control	Cyl. 1, cyl. 3 and cyl. 5 fuel injection valves
17	A	Fuel injection valve control	Cyl. 2, cyl. 4 and cyl. 6 fuel injection valves
18	E	Terminal 30, voltage supply	B+ junction point
19	M	Ground for electronics and shielding of sensors	Ground point
20		Not used	
21		Not used	
22	A	Idle speed control valve–open winding control	Idle speed control valve
23		Not used	
24	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
25		Not used	
26	M	Ground, volume air flow sensor	Volume air flow sensor

E = Input, A = Output, M = Ground

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Pin Assignments

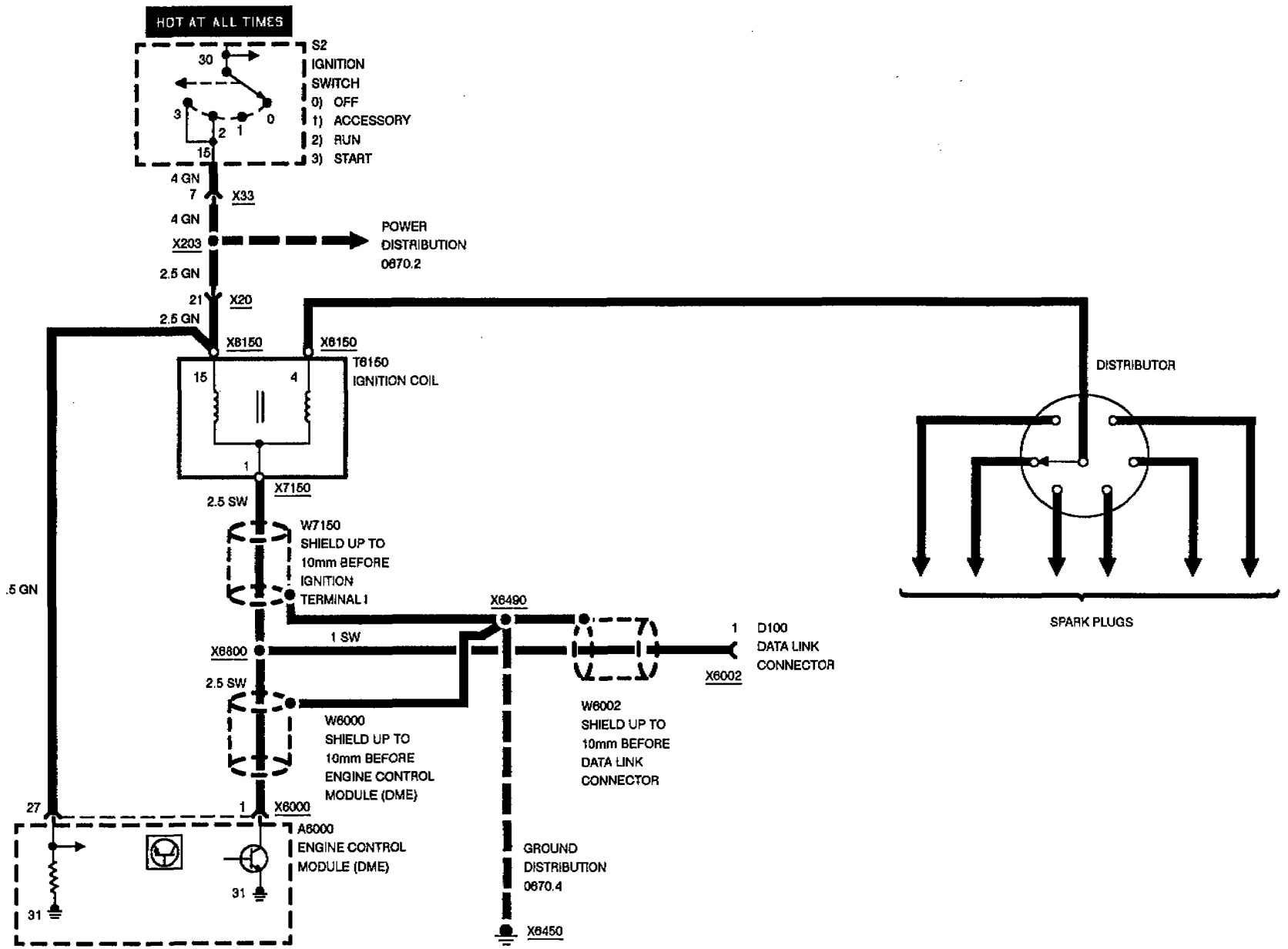
Pin	Type	Description/Function	Connection
27	E	Ignition switch, terminal 15	Ignition switch
28	E	Oxygen sensor signal	Heated oxygen sensor
29	E	Vehicle speed signal	Instrument cluster
30		Not used	
31	E	Cylinder identification sensor (ignition)	Cylinder identification sensor
32	A	ti measurement signal (KVA signal, fuel consumption)	Instrument cluster
33		Not used	
34		Not used	
35		Not used	
36	A	Engine control module relay control	Engine control module relay
37	E	Voltage supply from engine control module relay	Engine control module relay
38	E	Drive-away protection signal (code)	On-board computer
39	E	Programming voltage	Data link connector
40	E	A/C pressure signal	Pressure switch, compressor clutch
41	E	Auxiliary fan signal	Integrated climate regulation control module
42	E	Drive range P/N	Automatic transmission range switch
43		Not used	
44	E	Intake air temperature	Volume air flow sensor
45	E	Engine intake air temperature	Engine intake air temperature sensor
46		Not used	
47	E	Inductive pulse generator	Crankshaft RPM sensor
48	E	Inductive pulse generator	Crankshaft RPM sensor
49		Not used	
50		Not used	
51	E	Ignition timing intervention	Transmission control module (EGS)
52	E	Idle signal	Throttle position sensor
53	E	Wide open throttle signal	Throttle position sensor
54	E	Torque converter clutch WK	Transmission control module (EGS)
55	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

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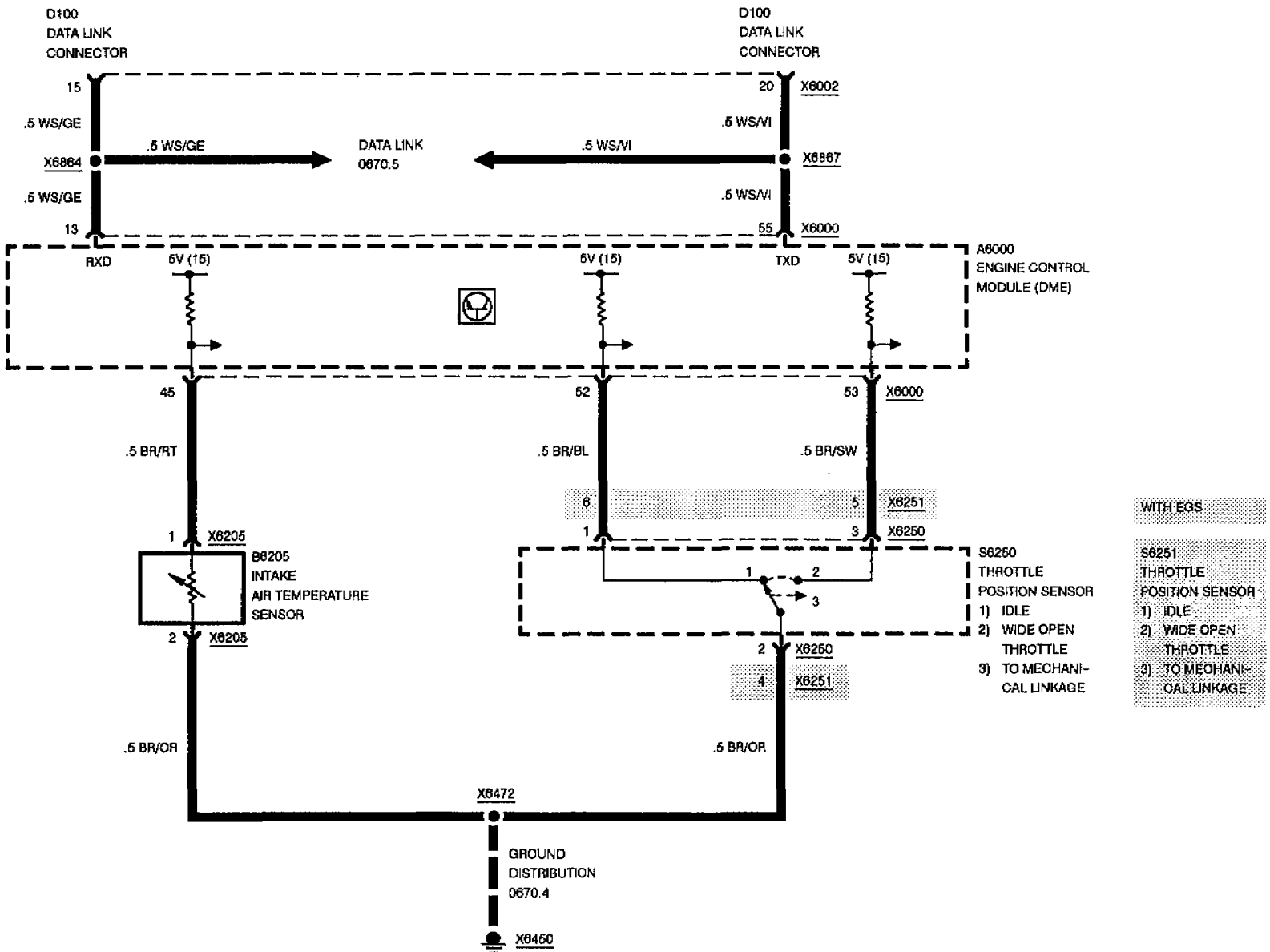
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



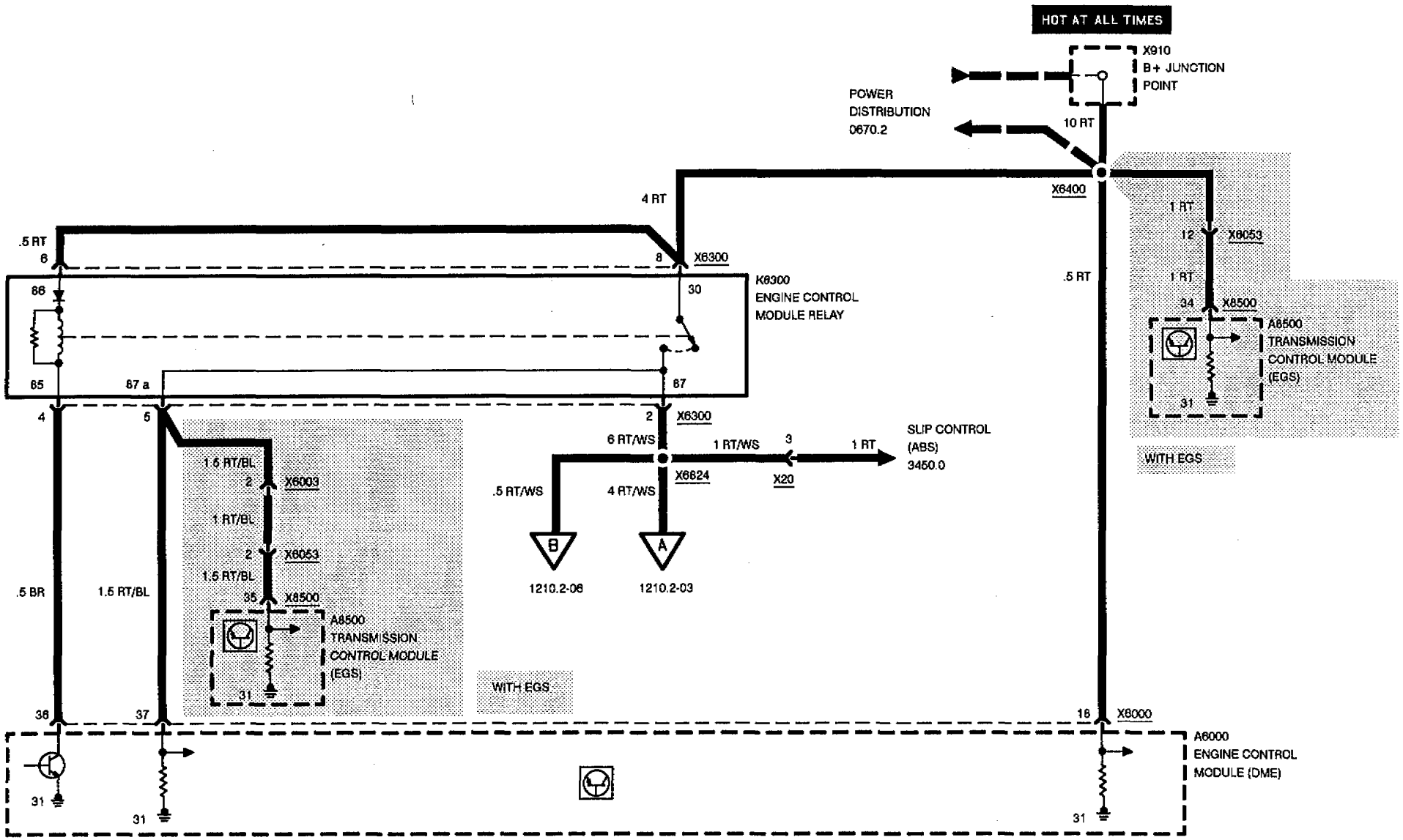
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



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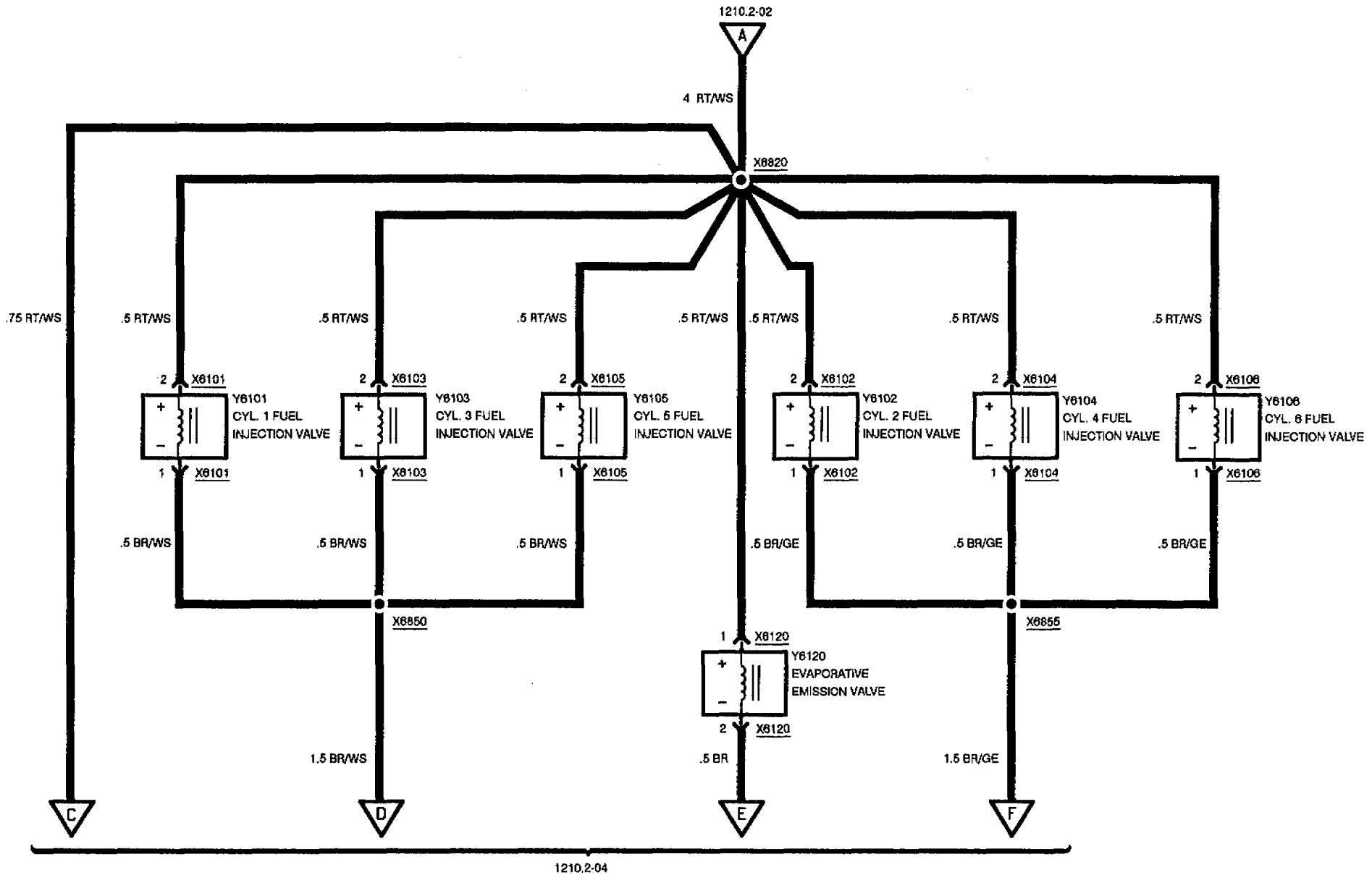
ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



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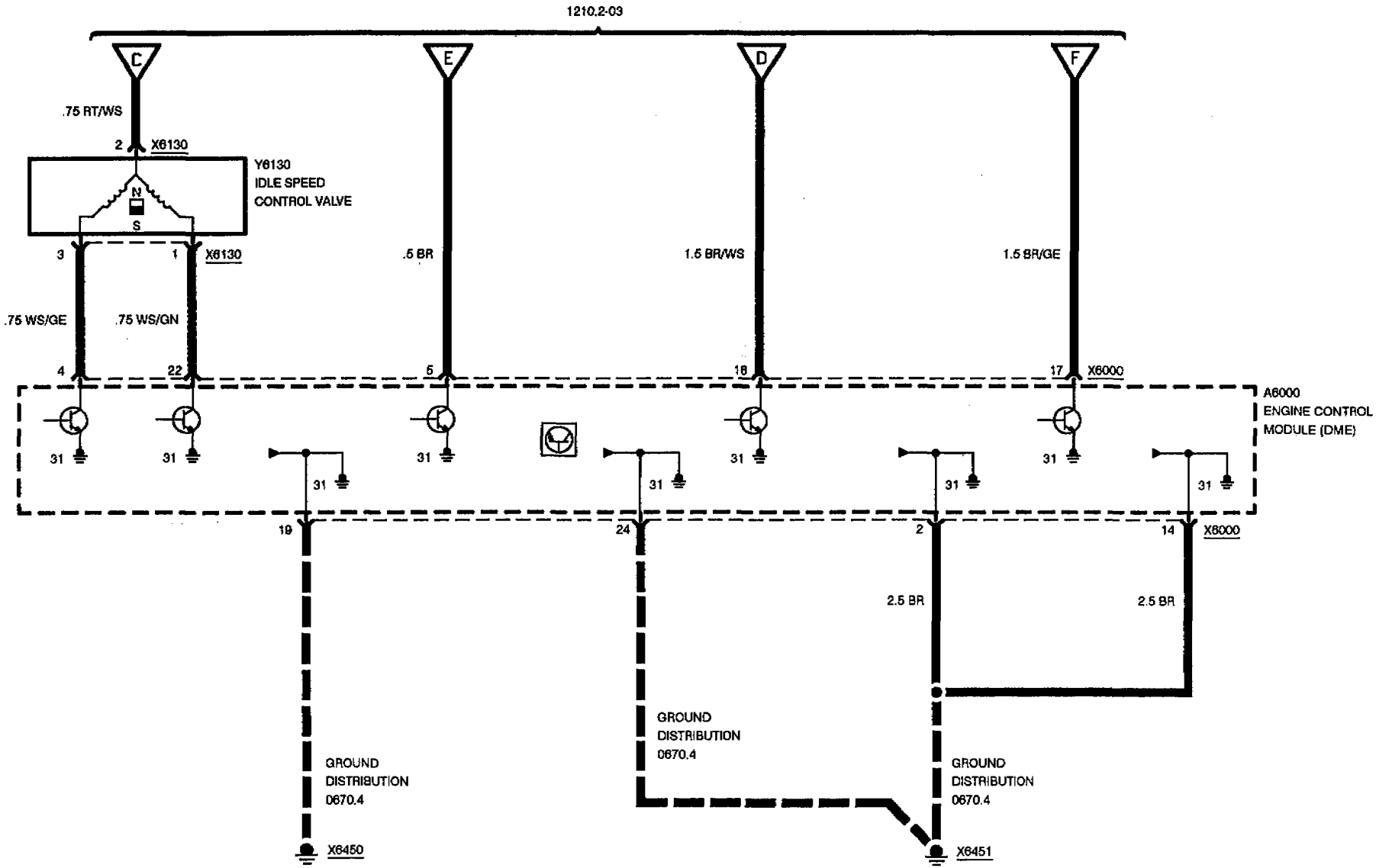
ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

FUEL INJECTION VALVES



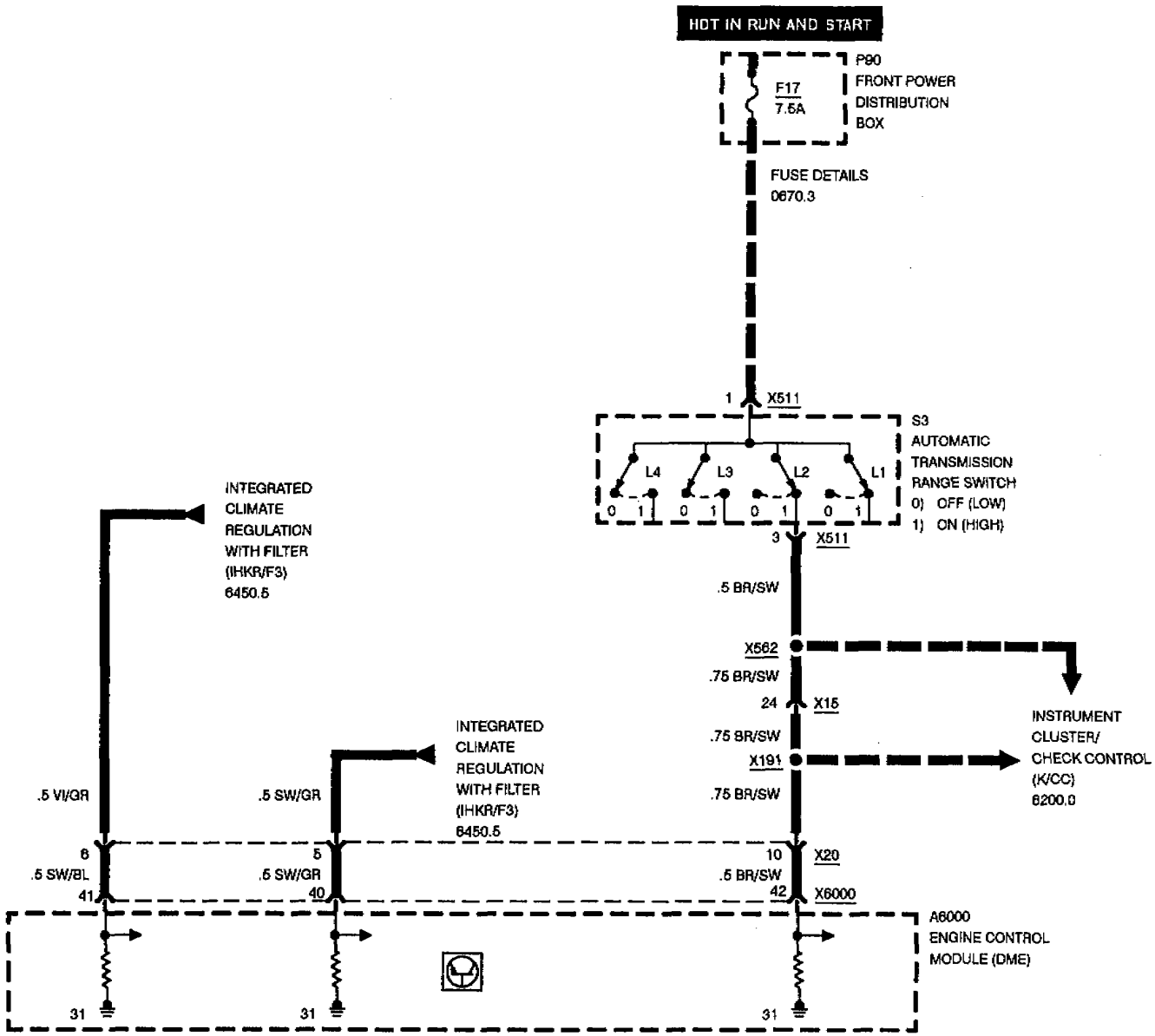
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

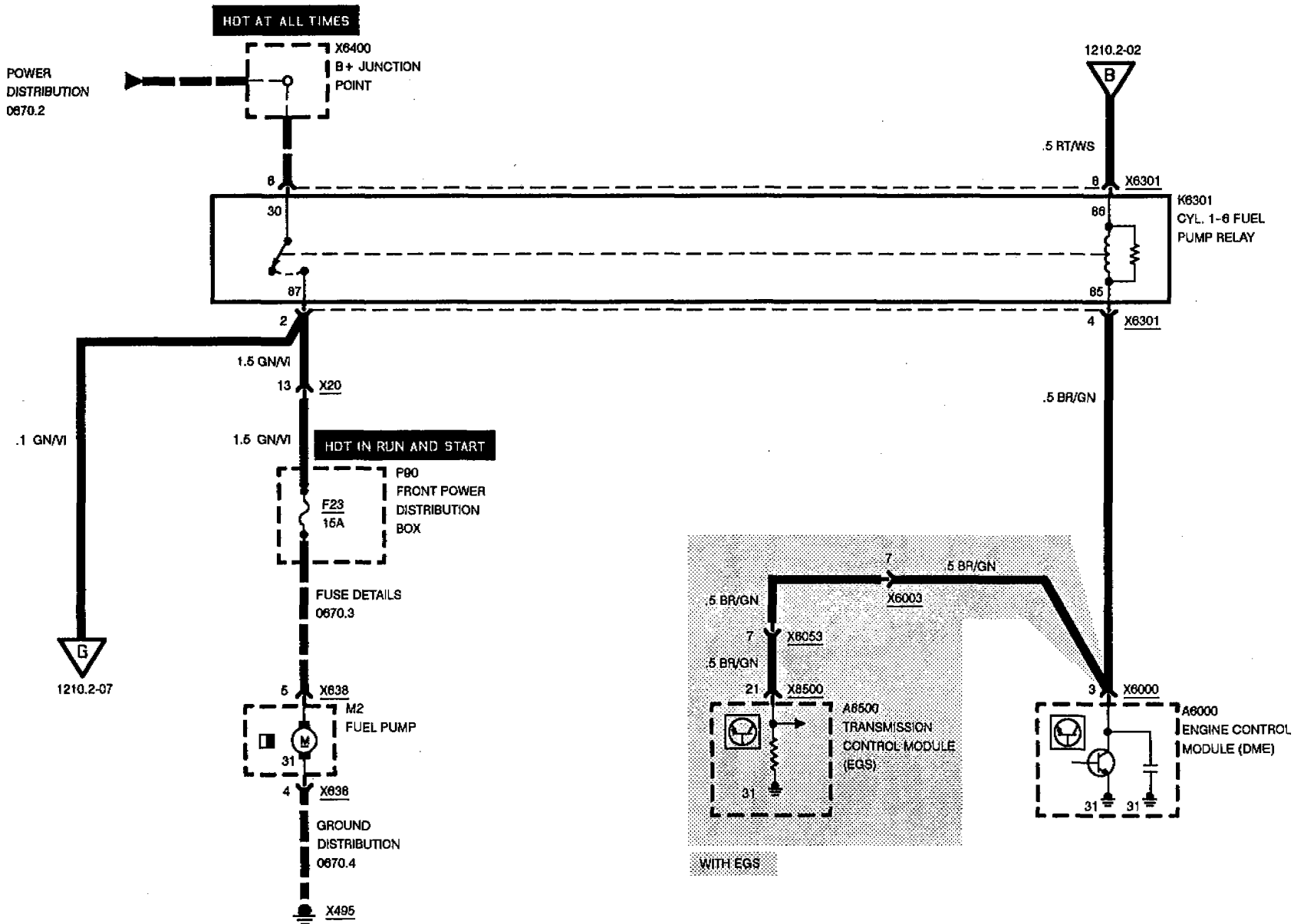


EGS 4HP 22

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

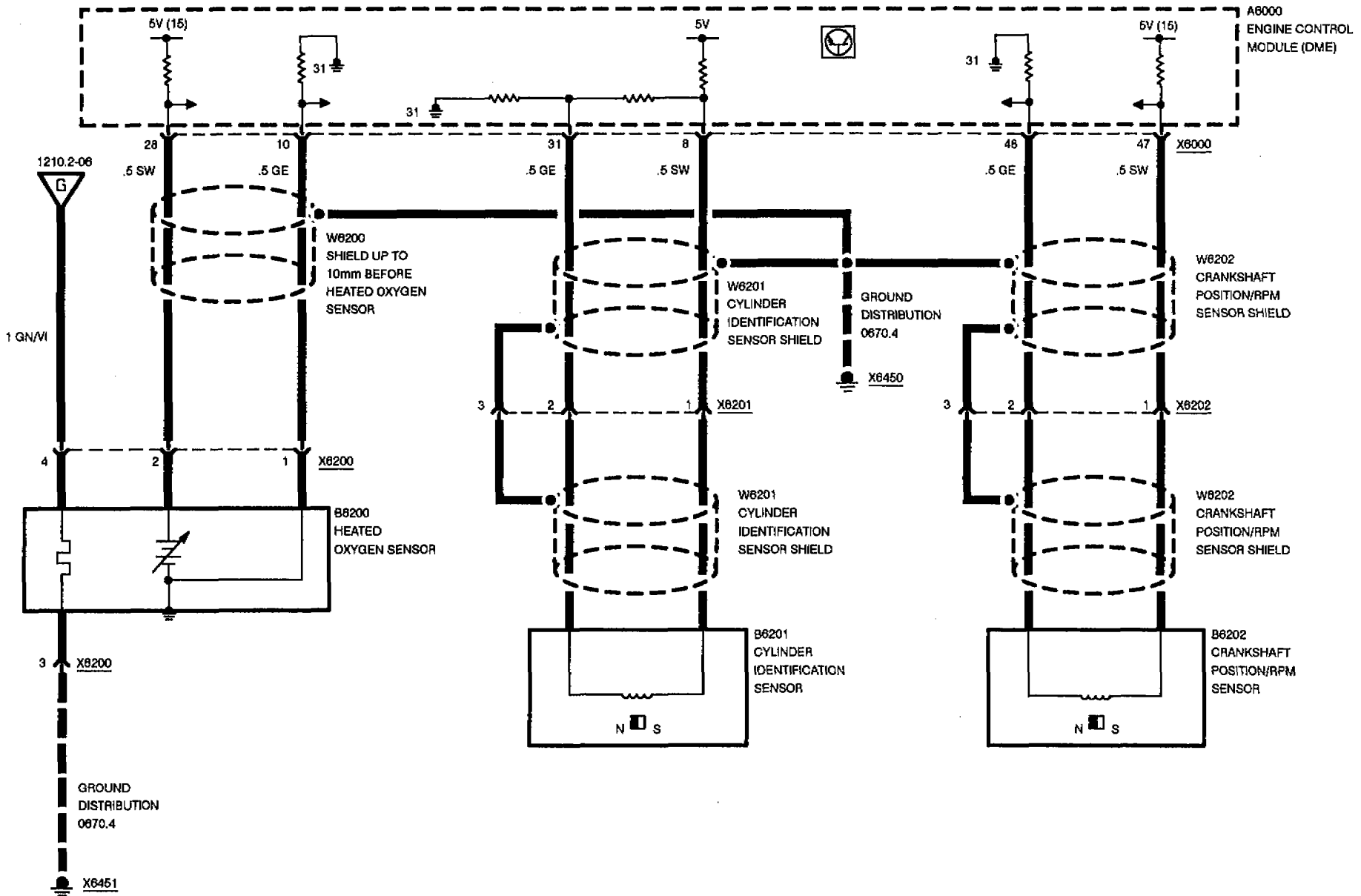
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



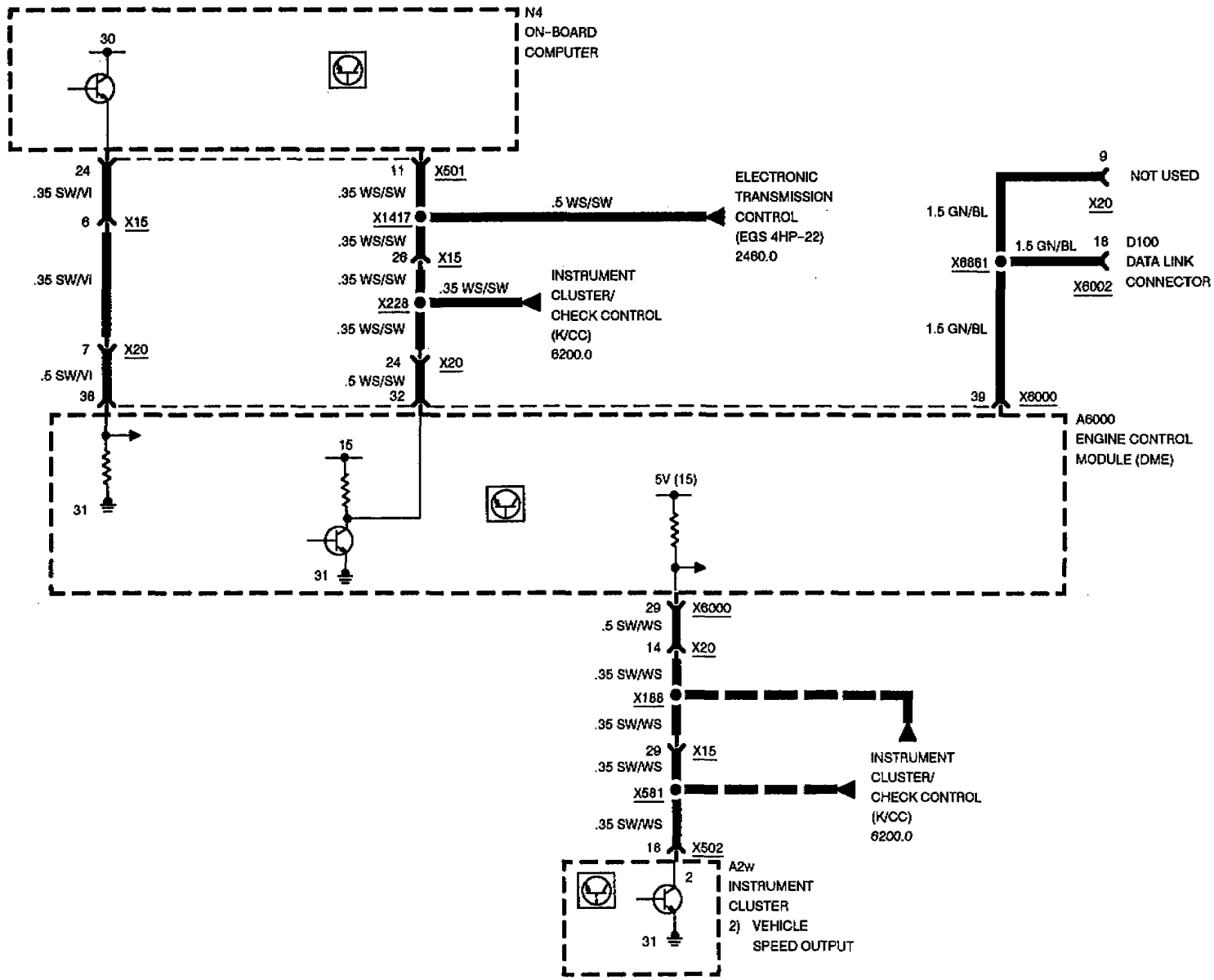
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



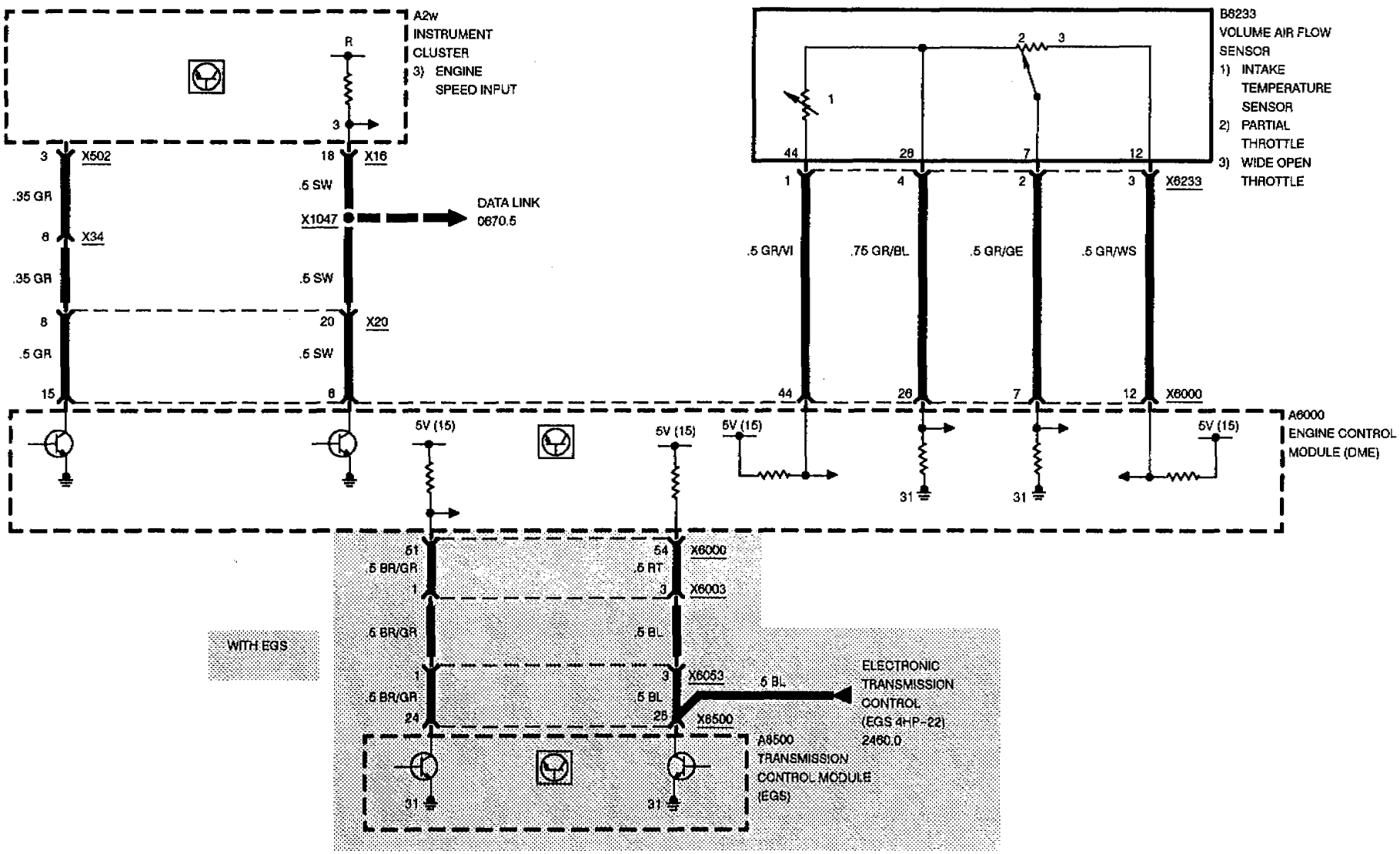
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



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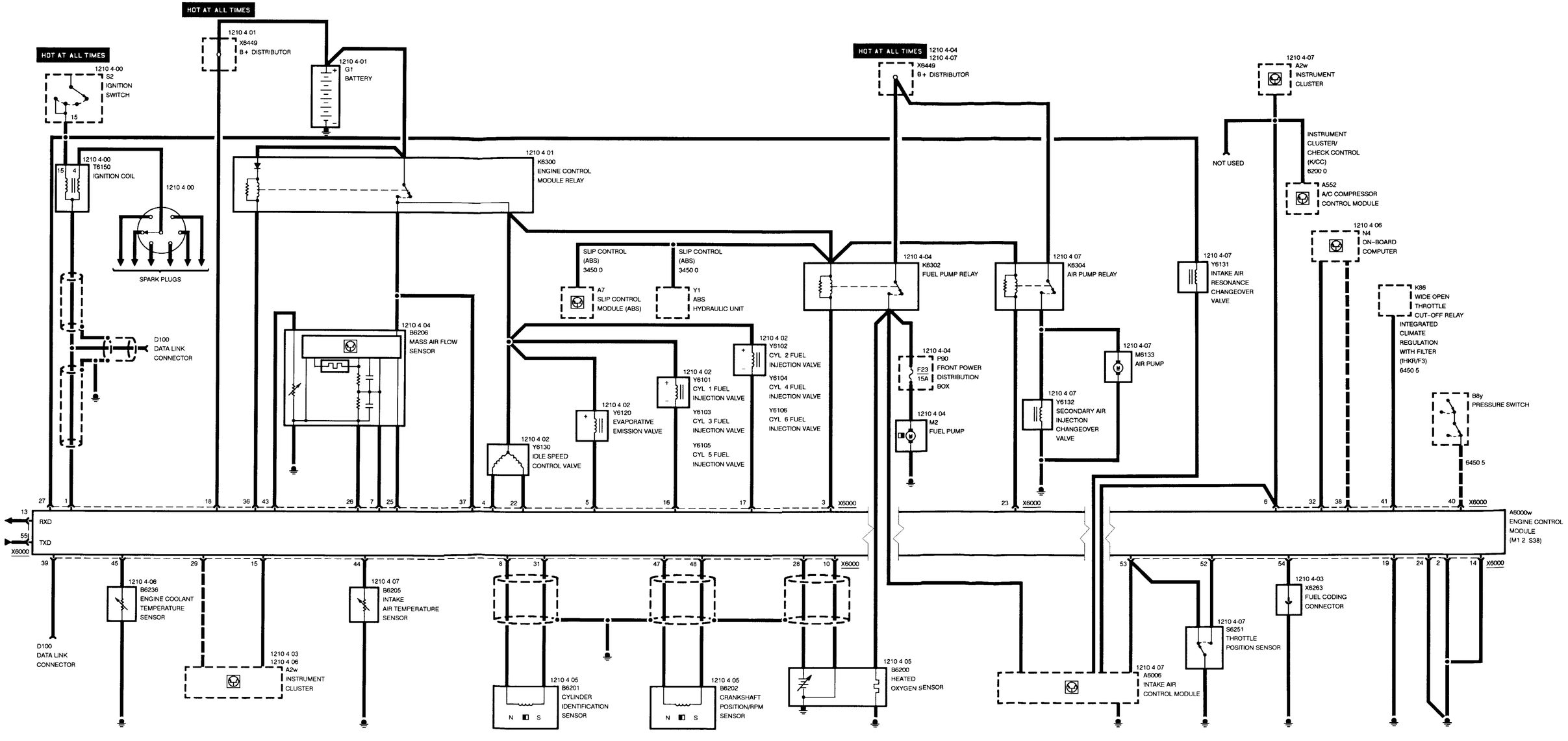
ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



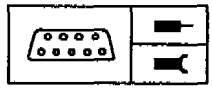
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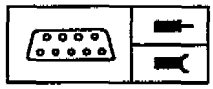
Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Ignition terminal	Ignition coil
2	M	Ground	Ground point
3	A	Fuel pump relay control	Fuel pump relay
4	A	Idle speed control valve control	Idle speed control valve
5	A	Evaporative emission valve control	Evaporative emission valve
6	A	Crankshaft RPM speed signal TD	Instrument cluster
7	E	Mass air flow signal	Mass air flow sensor
8	E	Cylinder identification sensor (ignition)	Cylinder identification sensor
9		Not used	
10	M	Oxygen sensor signal ground	Oxygen sensor
11		Not used	
12		Not used	
13	E	RxD diagnostic data line	Data link connector
14	M	Ground, fuel injection valve output stages	Ground point
15	A	"Check engine" indicator control	Instrument cluster
16	A	Cyl. 1, cyl. 2, and cyl. 3 fuel injection valves control	Cyl. 1, cyl. 2, and cyl. 3 fuel injection valves
17	A	Cyl. 4, cyl. 5, and cyl. 6 fuel injection valves control	Cyl. 4, cyl. 5, and cyl. 6 fuel injection valves
18	E	Battery voltage	B+ distributor
19	M	Ground, for electronics and sensor shields	Ground point
20		Not used	
21		Not used	
22	A	Idle speed control valve control	Idle speed control valve
23	A	Air pump relay control	Air pump relay
24	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
25	A	Preheating	Mass air flow sensor
26	M	Ground for mass air flow sensor	Mass air flow sensor
27	E	Ignition switch, terminal 15	Ignition switch, terminal 15
28	E	Oxygen sensor signal	Oxygen sensor

E = Input, A = Output, M = Ground

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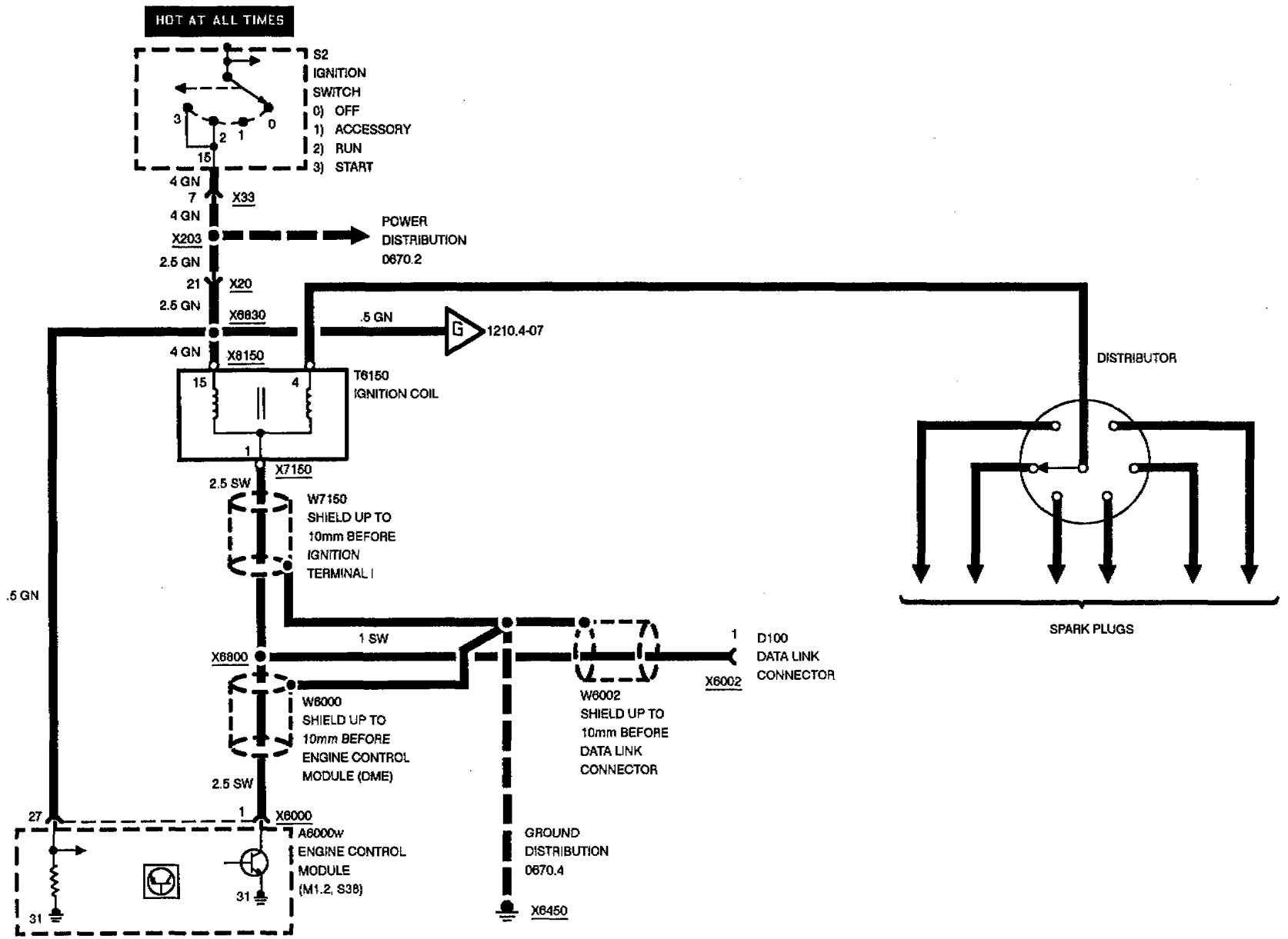
Pin Assignments

Pin	Type	Description/Function	Connection
29	E	Vehicle speed signal	Instrument cluster
30		Not used	
31	E	Cylinder identification sensor (ignition)	Cylinder identification sensor
32	A	ti Measuring signal (KVA signal)	On-board computer
33		Not used	
34		Not used	
35		Not used	
36	A	Engine control module relay control	Engine control module relay
37	E	Battery voltage from engine control module relay	Engine control module relay
38	E	Drive away protection signal	On-board computer
39	E	Programming voltage	Data link connector
40	E	A/C compressor signal	Pressure switch, compressor control relay
41	E	Auxiliary fan signal	Wide open throttle cut-off relay
42		Not used	
43	E	Idle CO potentiometer	Mass air flow sensor
44	E	Engine intake air temperature	Engine intake air temperature sensor
45	E	Engine coolant temperature	Engine coolant temperature sensor
46		Not used	
47	E	Inductive pulse generator (connection A)	Crankshaft RPM sensor
48	E	Inductive pulse generator (connection B)	Crankshaft RPM sensor
49		Not used	
50		Not used	
51		Not used	
52	E	Idle signal	Throttle position sensor
53	E	Full load signal VL	Throttle position sensor and intake air control module
54	E	Coding signal	Fuel coding connector
55	E/A	TxD diagnostic data line	Data link connector

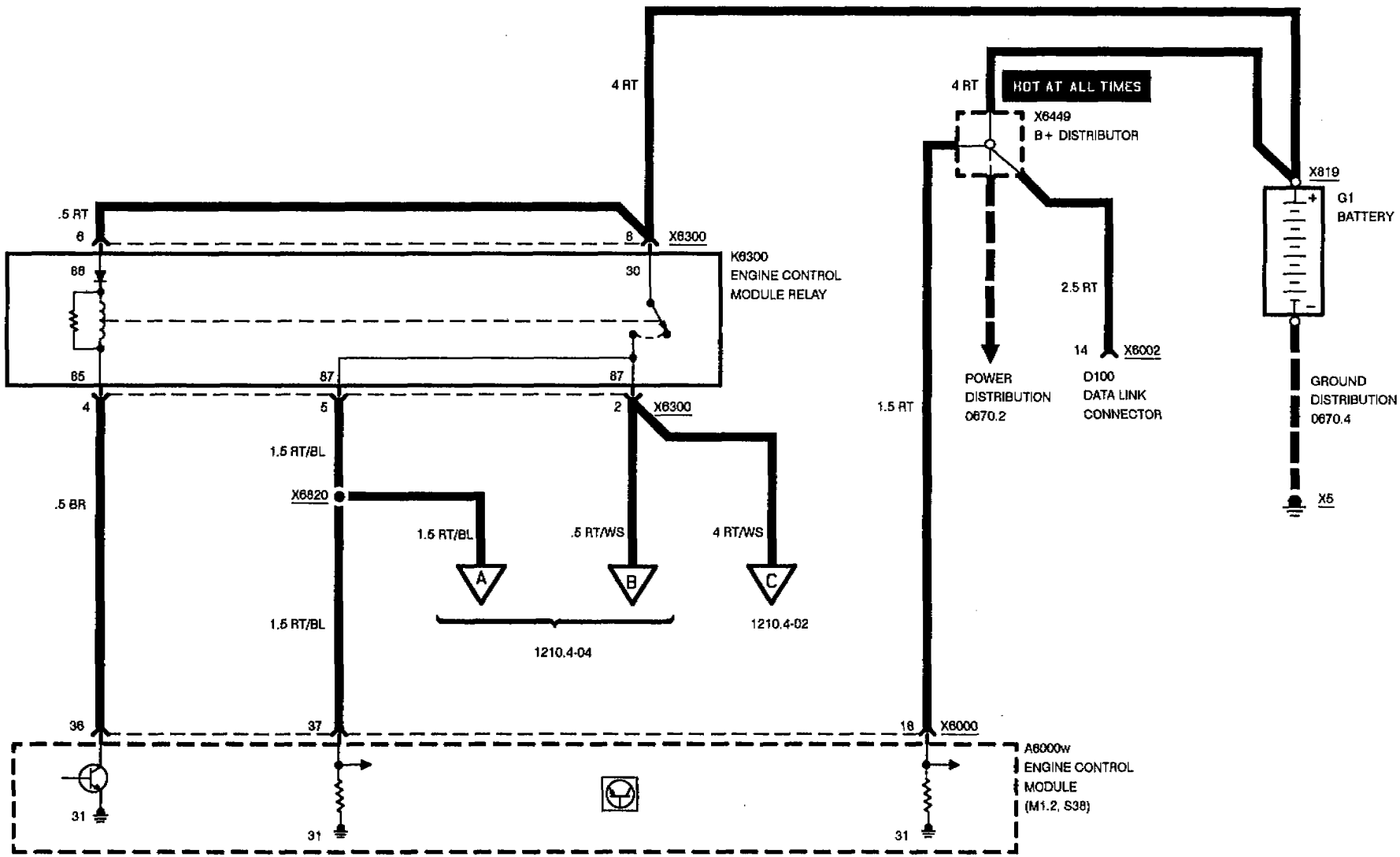
E = Input, A = Output, M = Ground

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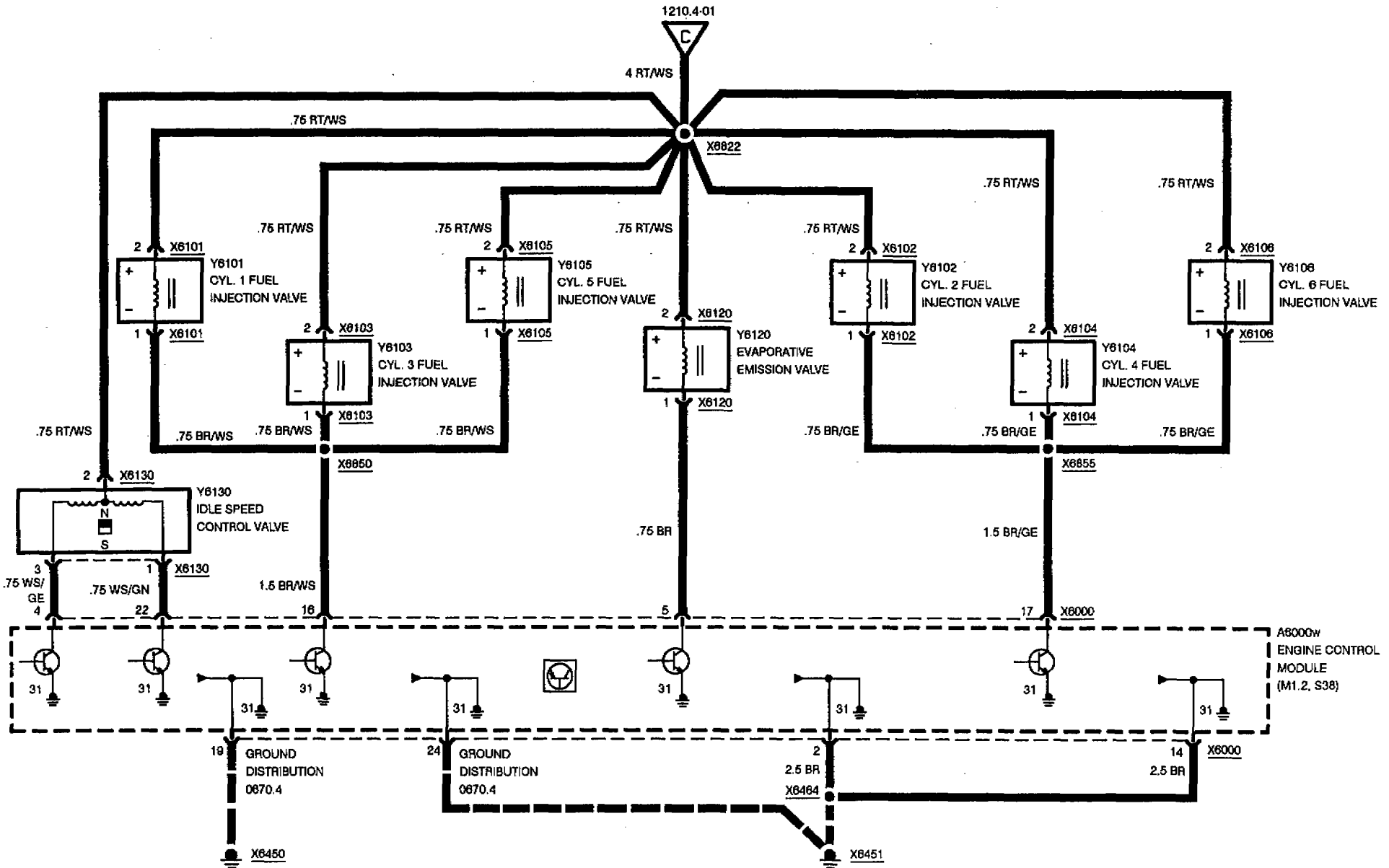
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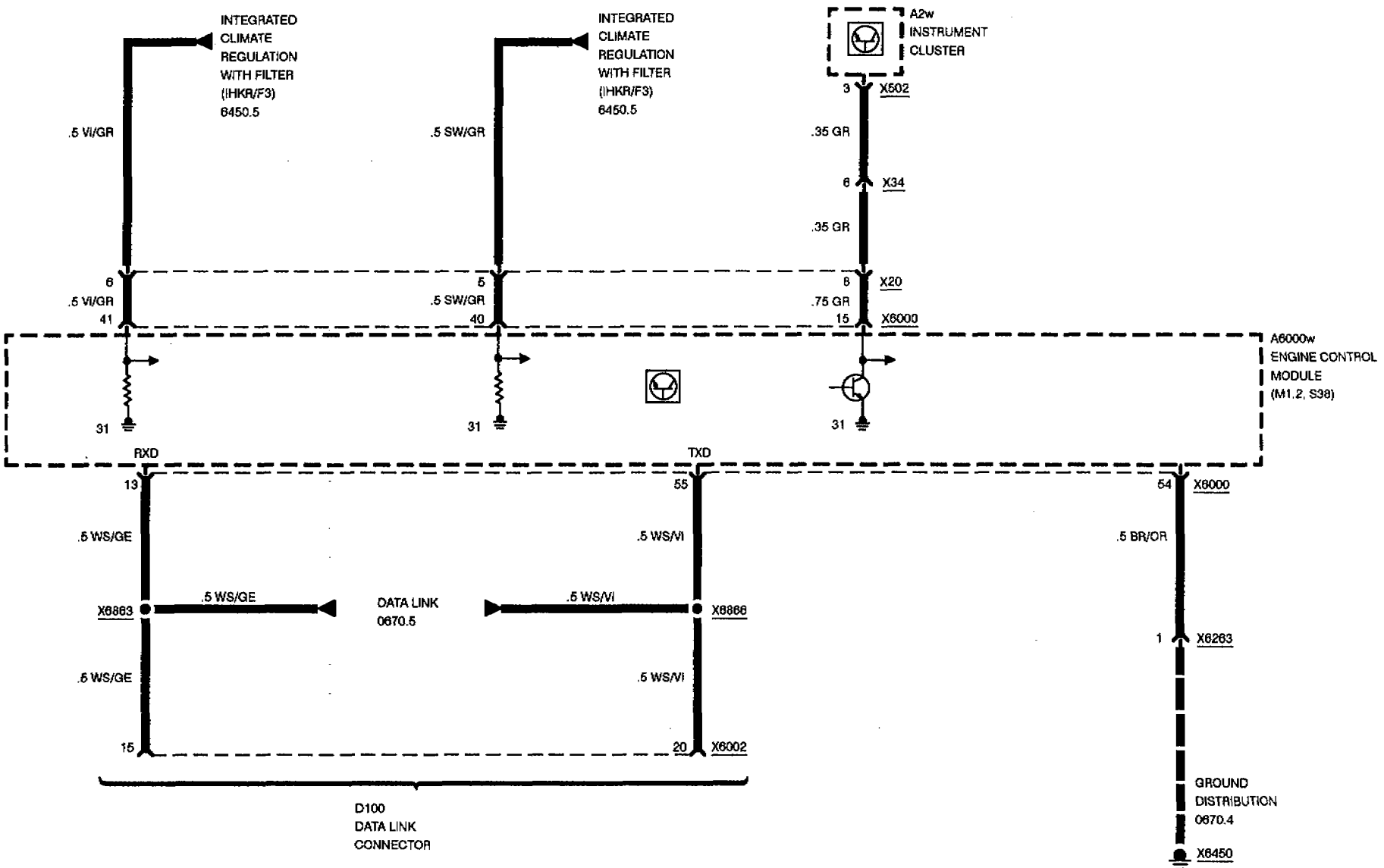


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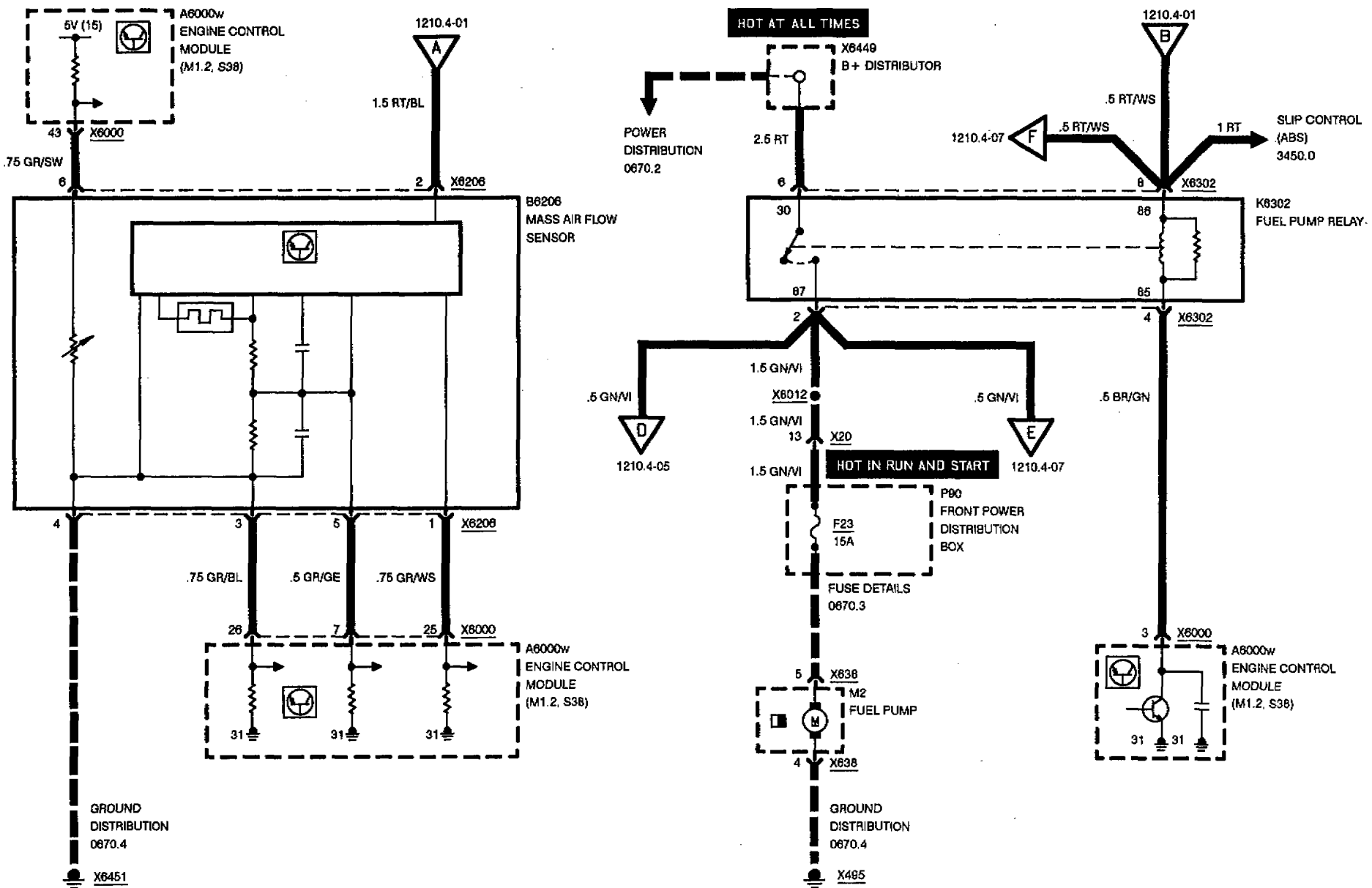
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ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)

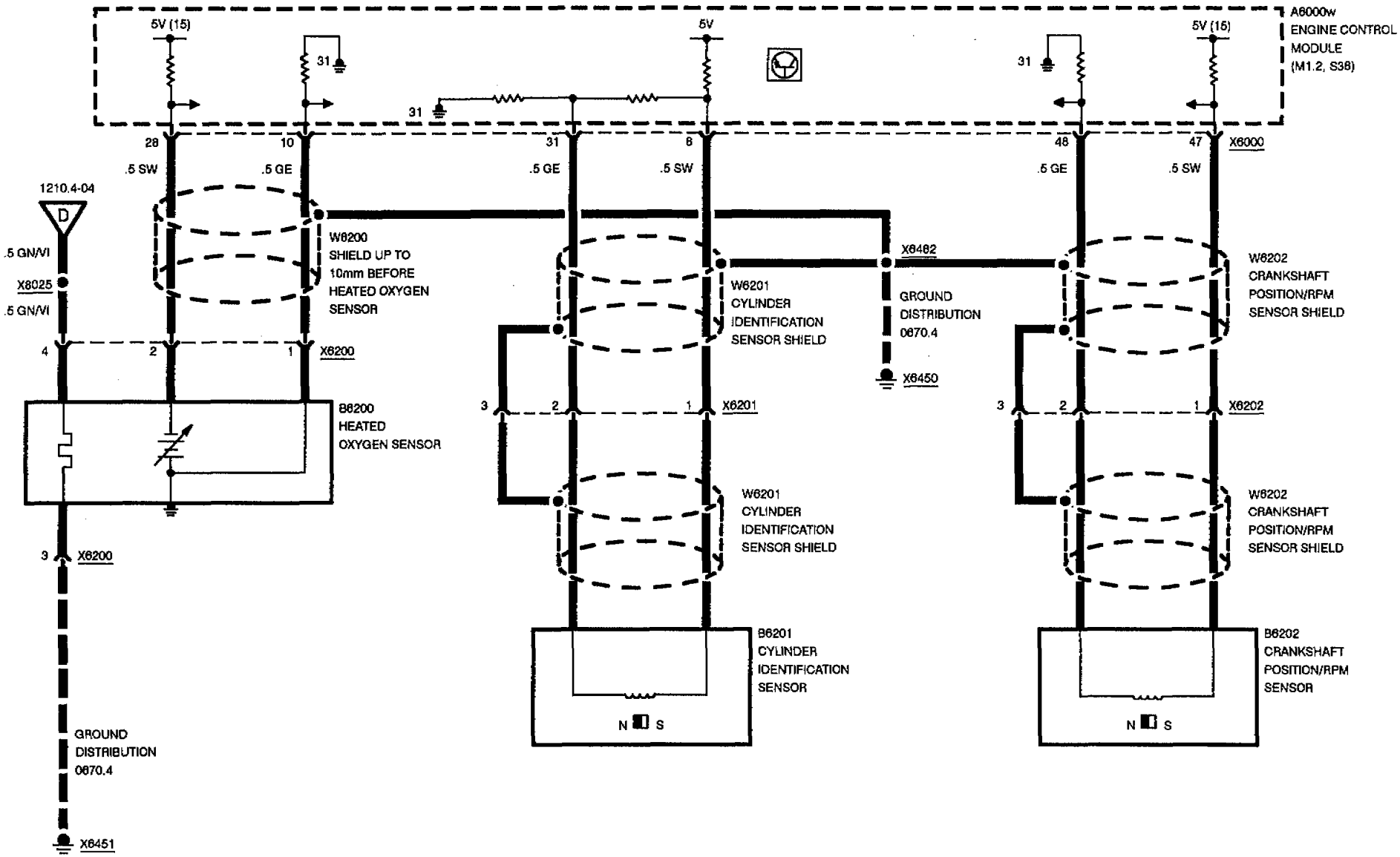


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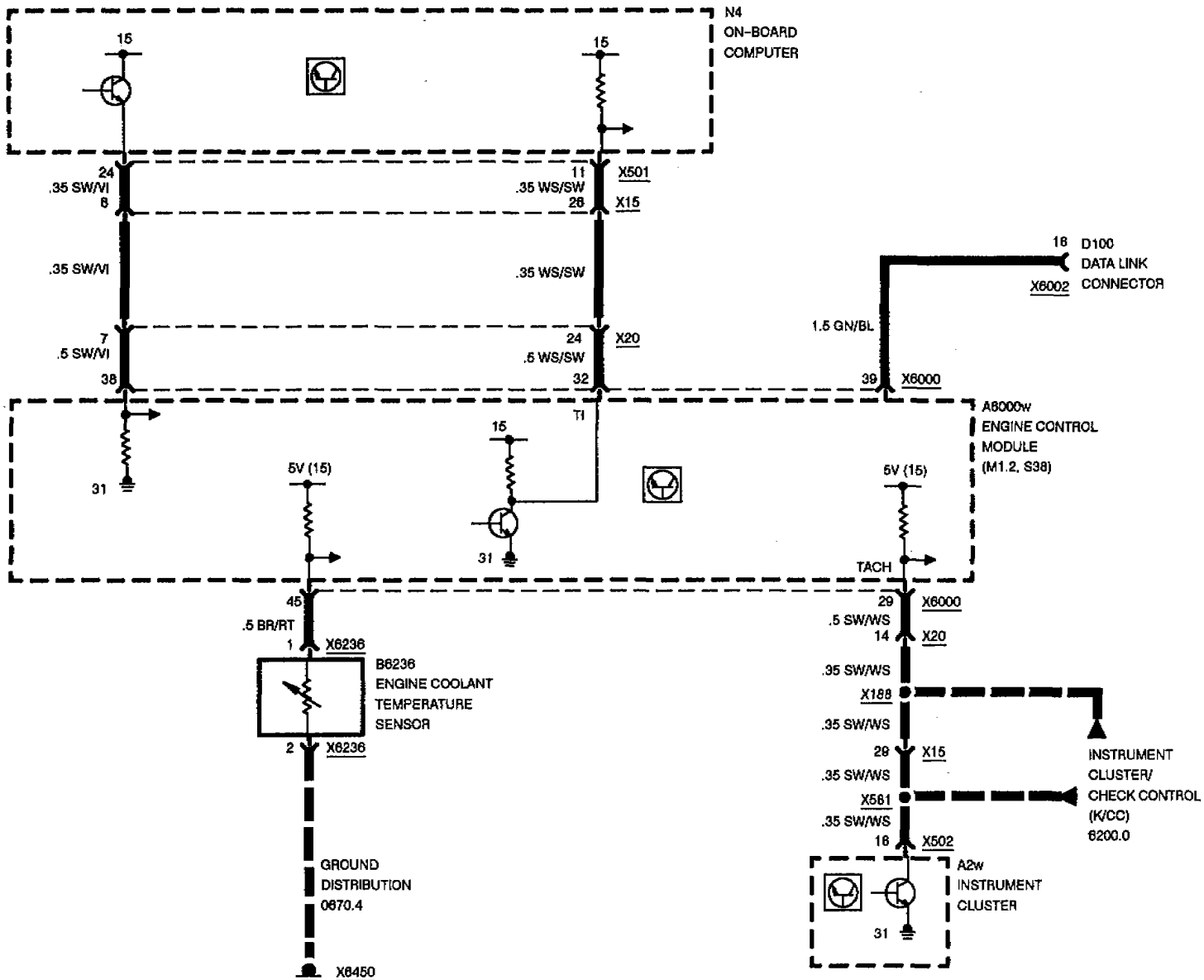
ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)



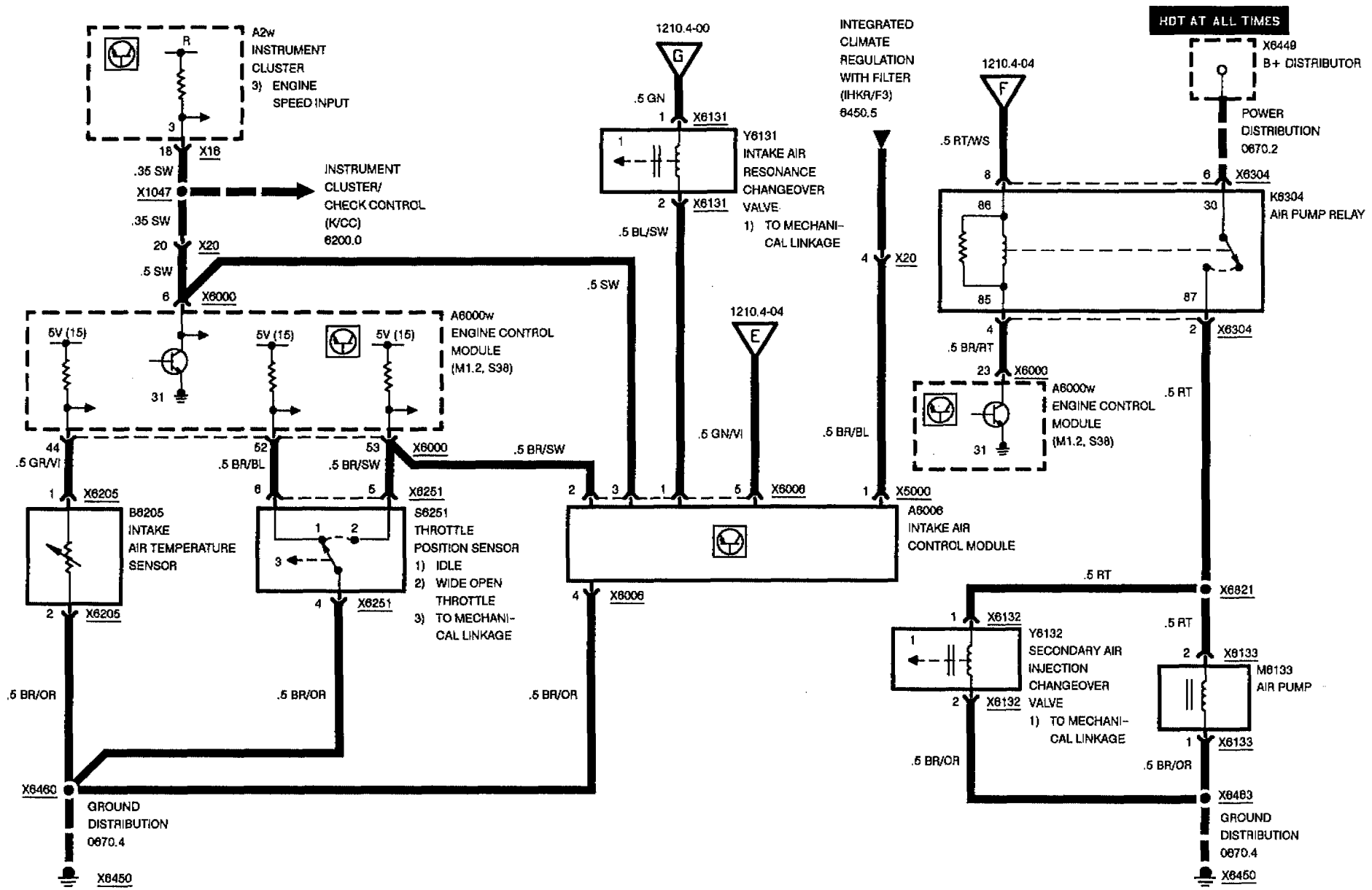
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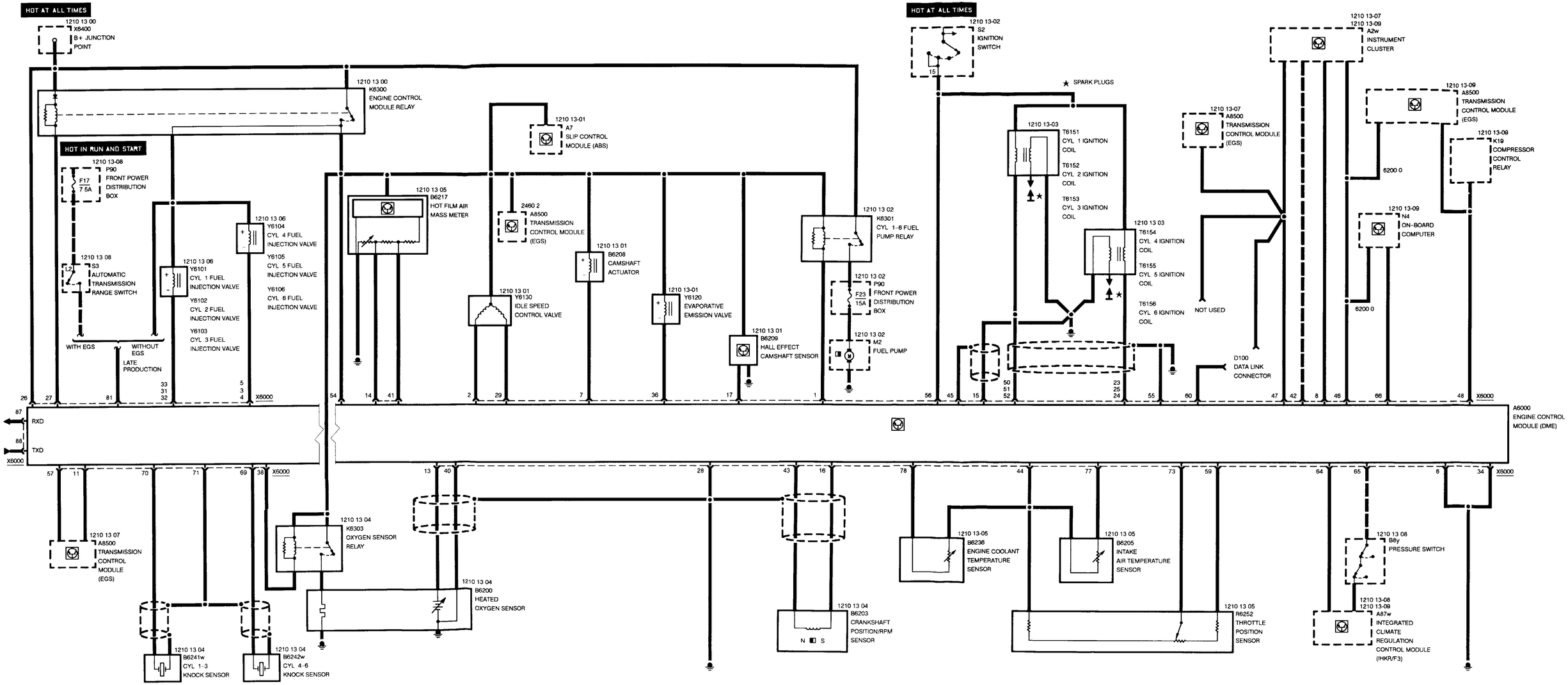


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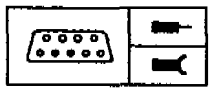
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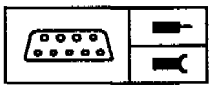
Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay, terminal 85
2	A	Idle speed control valve – close winding control	Idle speed control valve
3	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
4	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
5	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
6	M	Ground, fuel injection valve output stages	Ground point
7	A	Camshaft actuator control	Camshaft actuator
8	A	"Check engine" indicator	Instrument cluster
9		Not used	
10		Not used	
11	A	Throttle valve position	Transmission control module (EGS)
12		Not used	
13	E	Oxygen sensor signal	Heated oxygen sensor
14	A	Hot wire air mass meter	Hot wire air mass meter
15	M	Ground	Ground point
16	E	Crankshaft RPM sensor + signal	Crankshaft RPM sensor
17	E	Crankshaft position sensor	Hall effect camshaft sensor
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
24	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
25	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
26	E	Terminal 30 voltage supply	B + junction point
27	A	Engine control module relay control	Engine control module relay
28	M	Ground for electronics and shielding of sensors	Ground point

E = Input, A = Output, M = Ground

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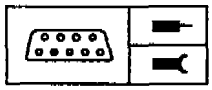


Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Idle speed control valve – opening winding control	Idle speed control valve
30		Not used	
31	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
32	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
33	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
34	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	Evaporation emission valve control	Evaporative emission valve
37		Not used	
38	A	Oxygen sensor, heater control	Oxygen sensor relay
39		Not used	
40	M	Oxygen sensor signal ground	Heated oxygen sensor
41	E	Hot wire air mass meter	Hot wire air mass meter
42	E	Vehicle speed signal TD	Instrument cluster
43	E	Crankshaft RPM sensor – signal	Crankshaft RPM sensor
44	A	Ground for sensors	Engine intake air temperature sensor, engine coolant temperature sensor, and throttle position sensor
45	A	Ground	Shield Ignition
46	A	ti measurement signal (fuel consumption)	Instrument cluster
47	A	Crankshaft RPM speed signal TD	Instrument cluster
48	A	A/C compressor control	Compressor control relay
49		Not used	
50	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
51	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
52	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch
57	E	Ignition timing intervention	Transmission control module (EGS)

E = Input, A = Output, M = Ground

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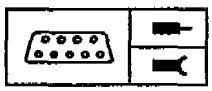


Pin Assignments

Pin	Type	Description/Function	Connection
58		Not used	
59	A	5V Component supply	Throttle position sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64	E	Compressor signal	Integrated climate regulation control module
65	E	A/C Pressure signal	Pressure switch
66	E	Drive-away protection signal (code)	On-board computer
67		Not used	
68		Not used	
69	E	Cyl. 4-6 knock sensor	Cyl. 4-6 knock sensor
70	E	Cyl. 1-3 knock sensor	Cyl. 1-3 knock sensor
71	M	Ground for knock sensors and shield	Cyl. 1-3 knock sensor, Cyl. 4-6 knock sensor and shields
72		Not used	
73	E	Throttle position	Throttle position sensor
74		Not used	
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81	E E	Drive range P/N Battery voltage	Transmission range switch/with EGS Engine control module relay/Late Production without EGS
82		Not used	
83		Not used	
84		Not used	
85		Not used	
86		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
87	E	RxD diagnostic data line	Data link connector
88	E/A	TxD diagnostic data line	Data link connector

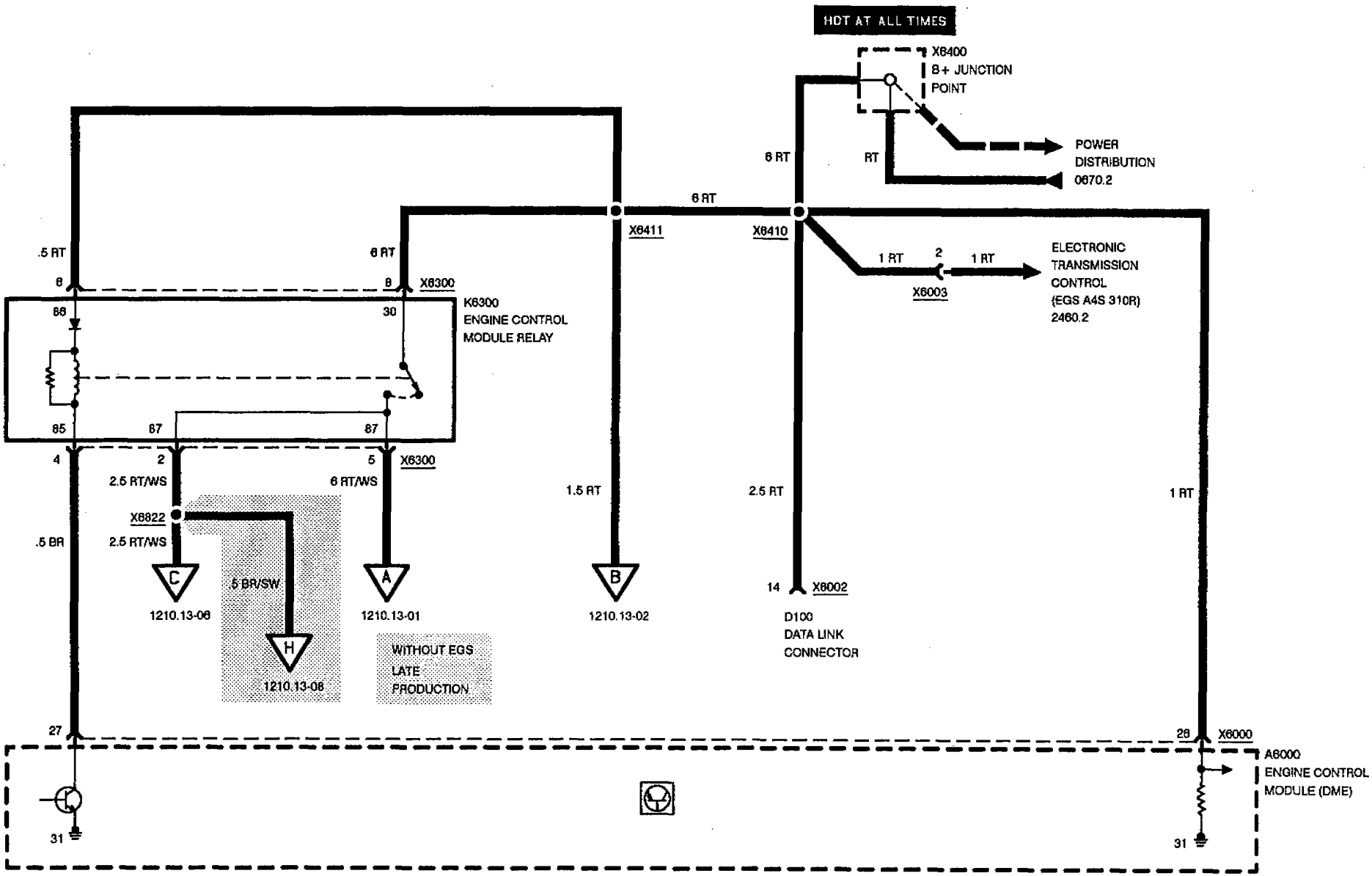
E = Input, A = Output, M = Ground

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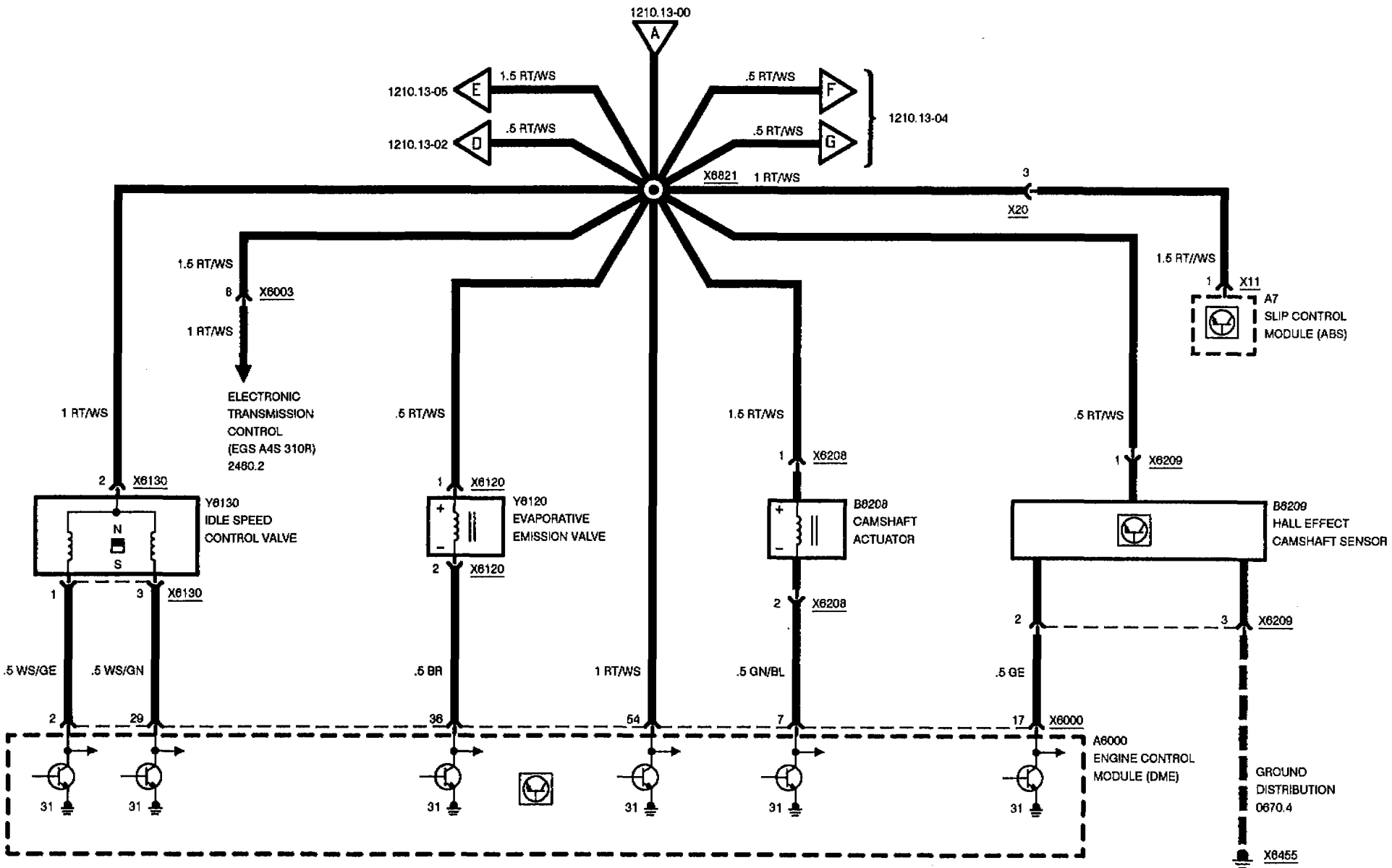
ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

POWER



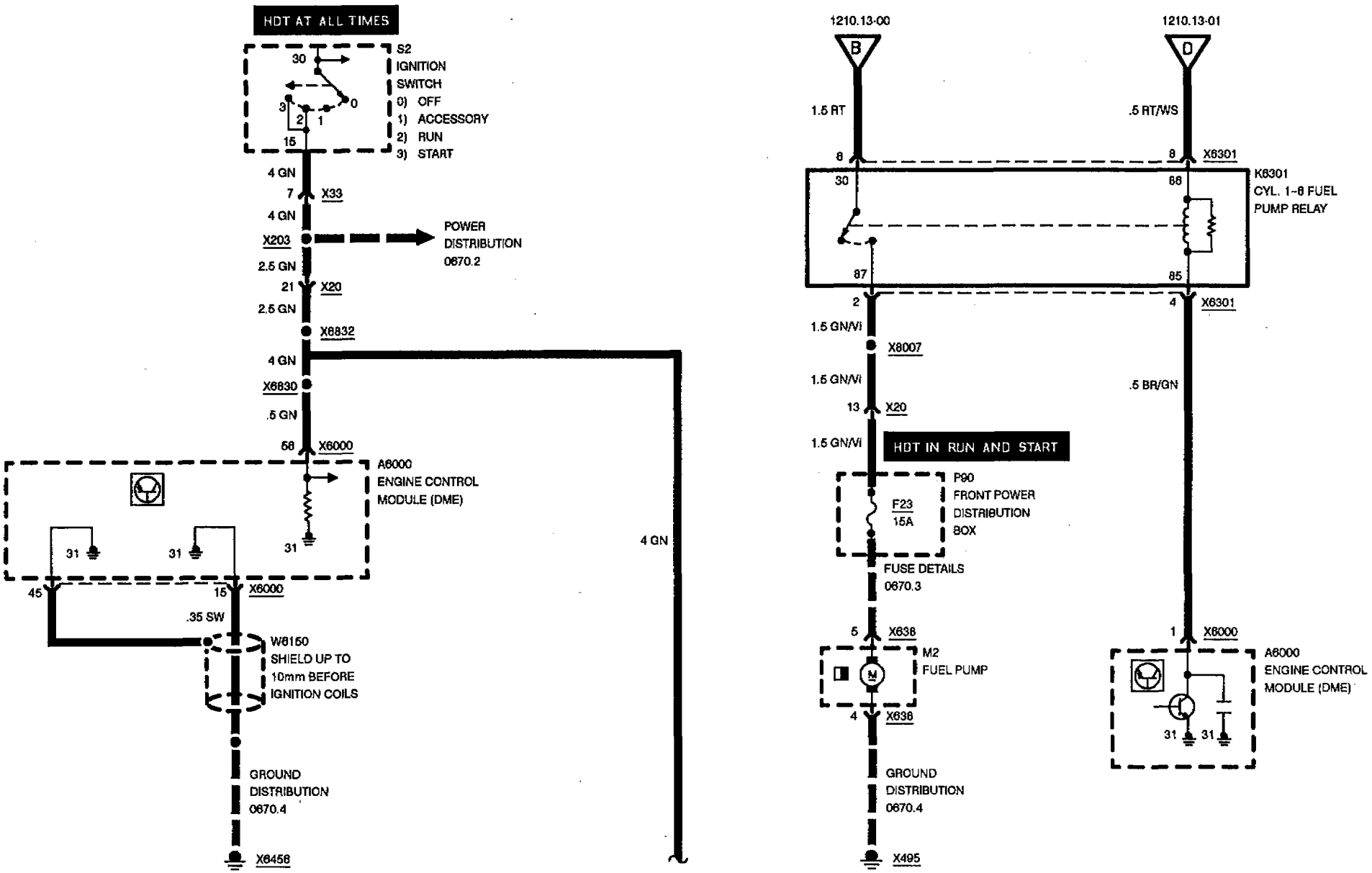
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ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

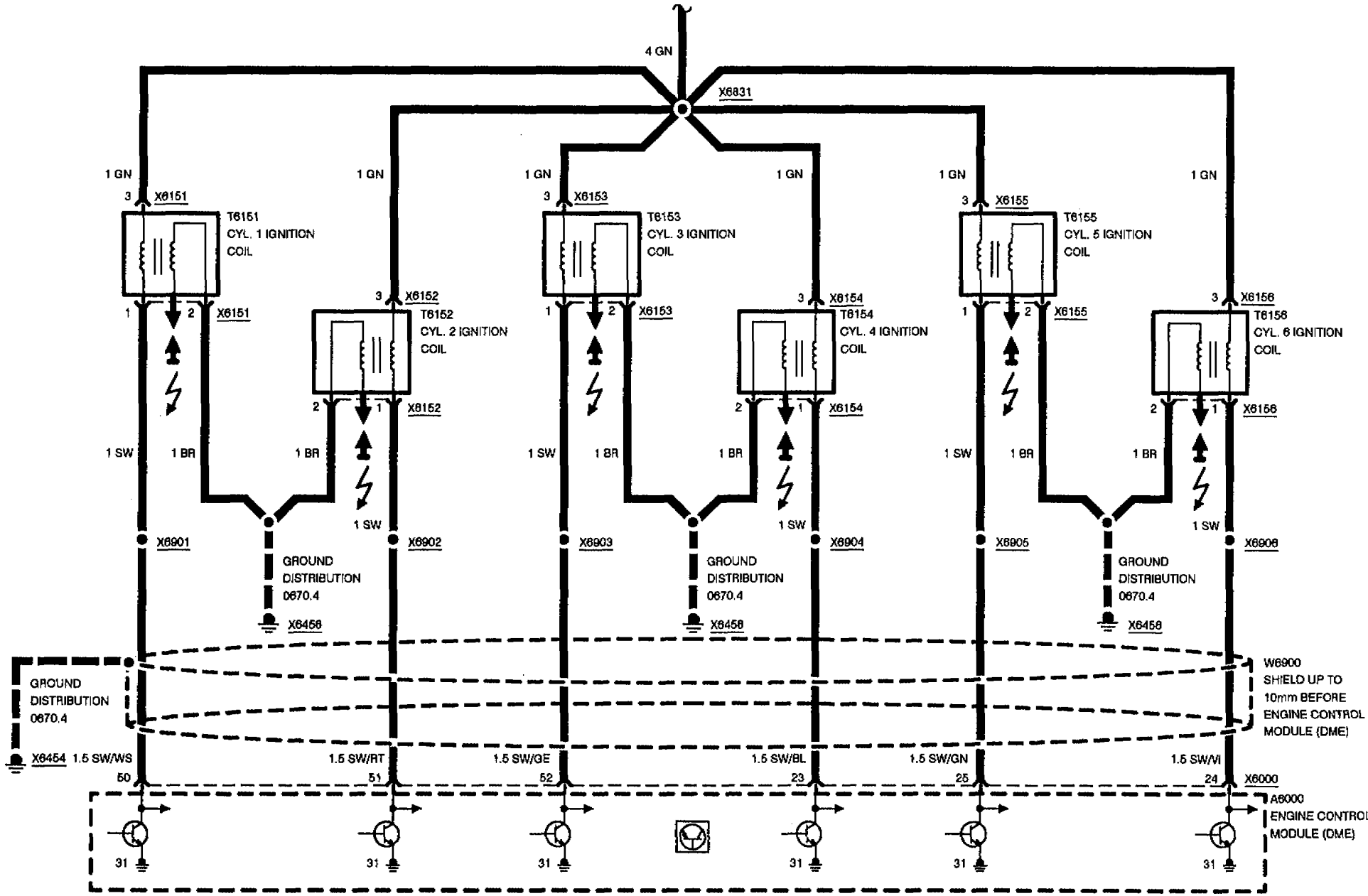


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ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

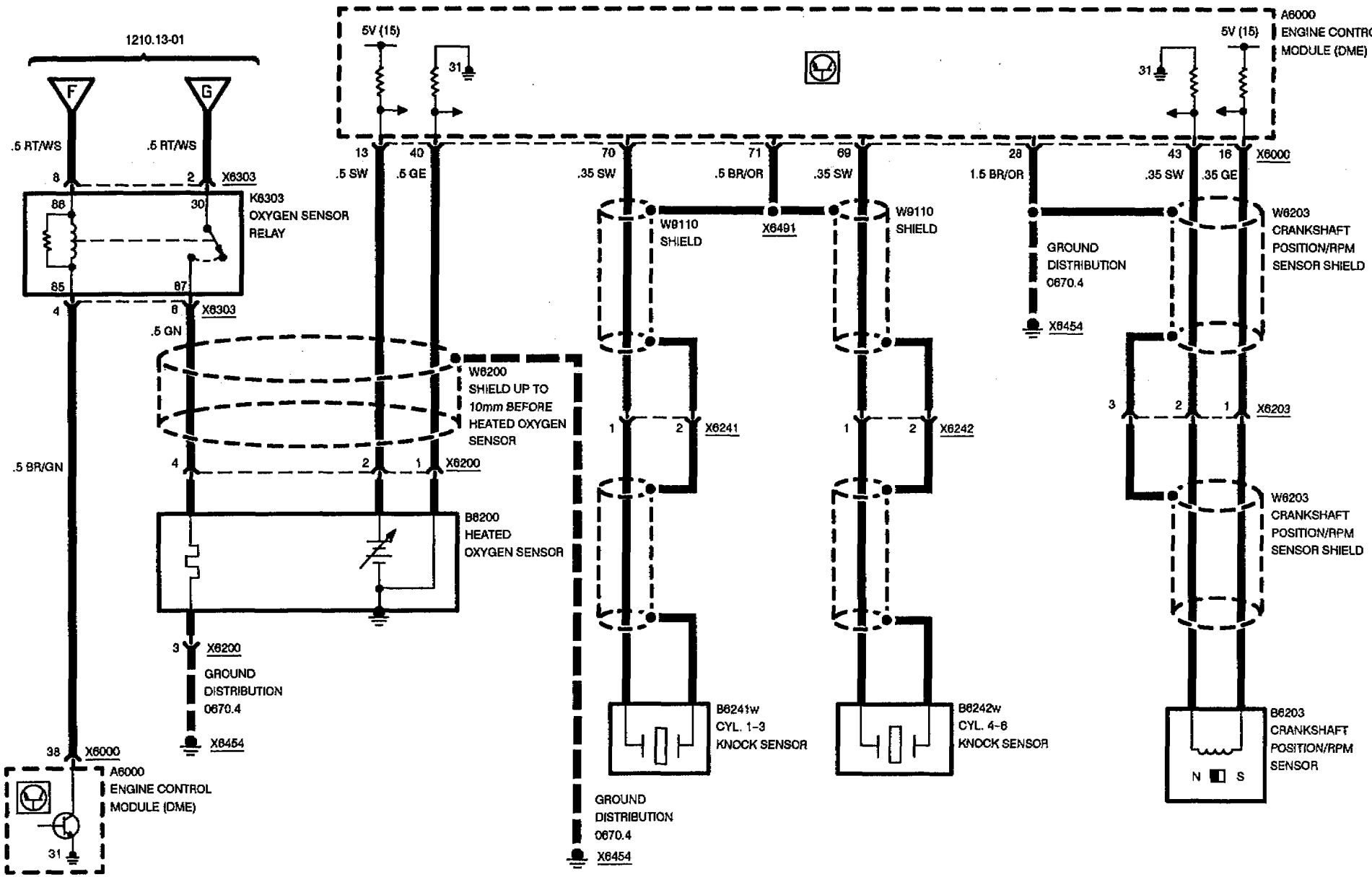


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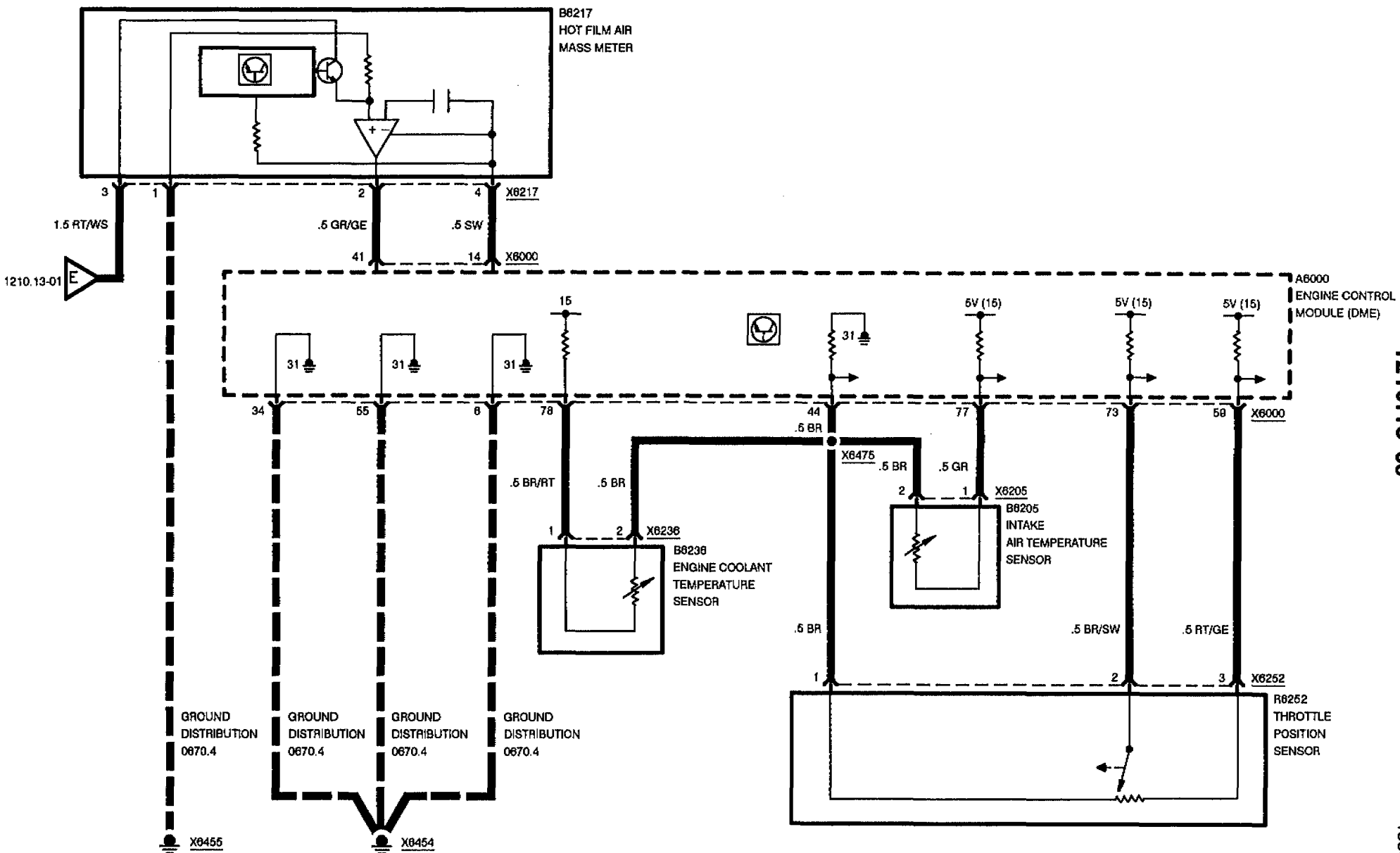
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ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



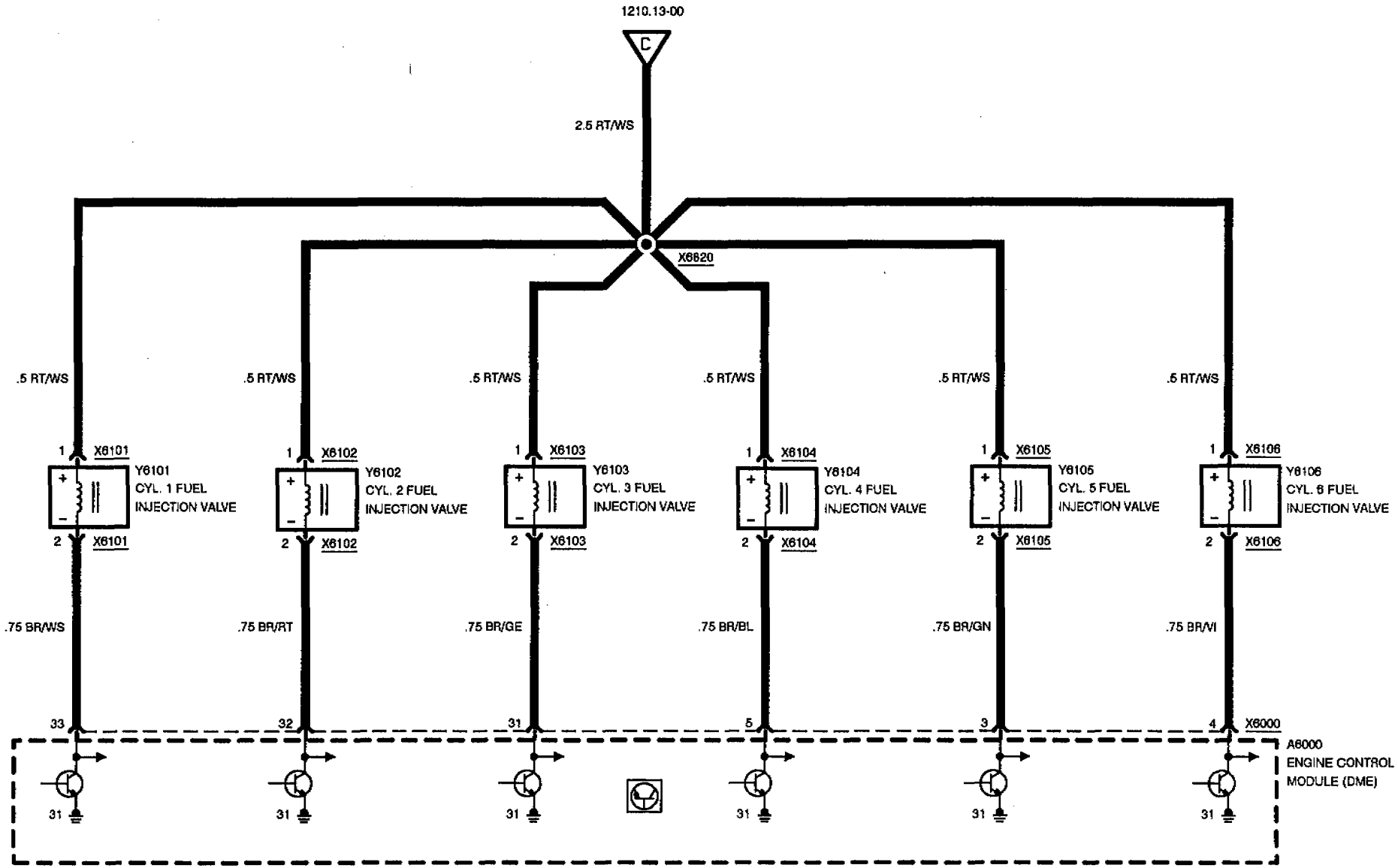
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ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



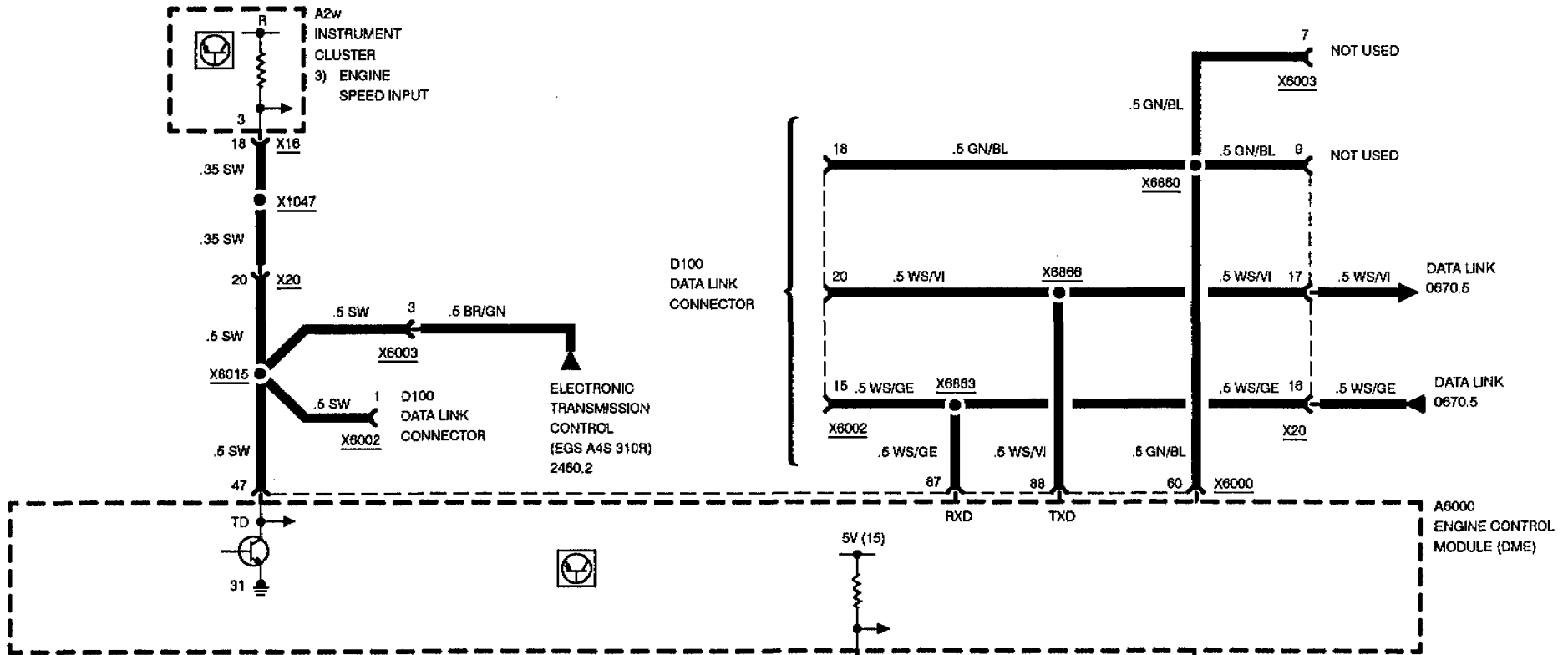
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ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



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ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

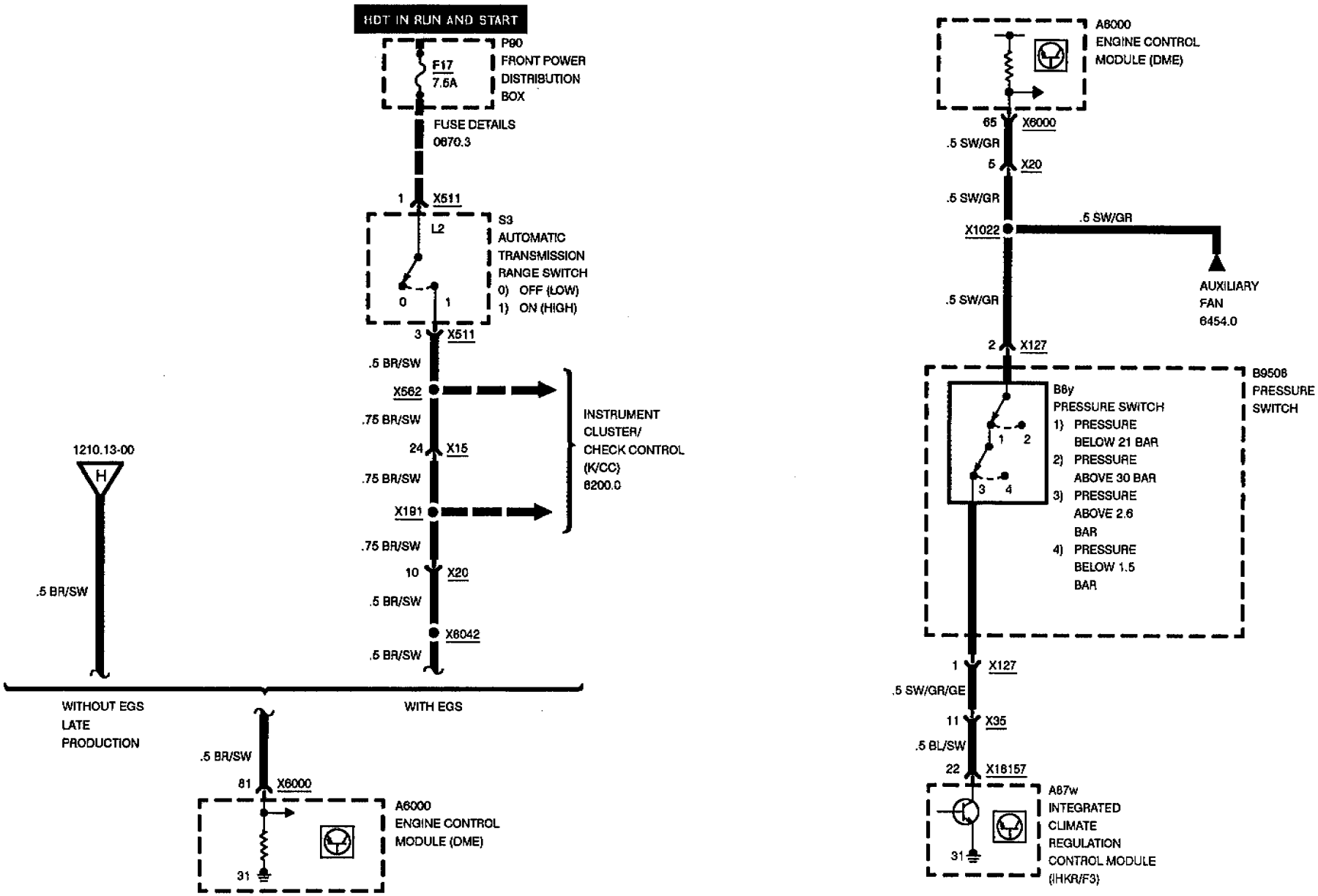


EGS A4S 310R

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

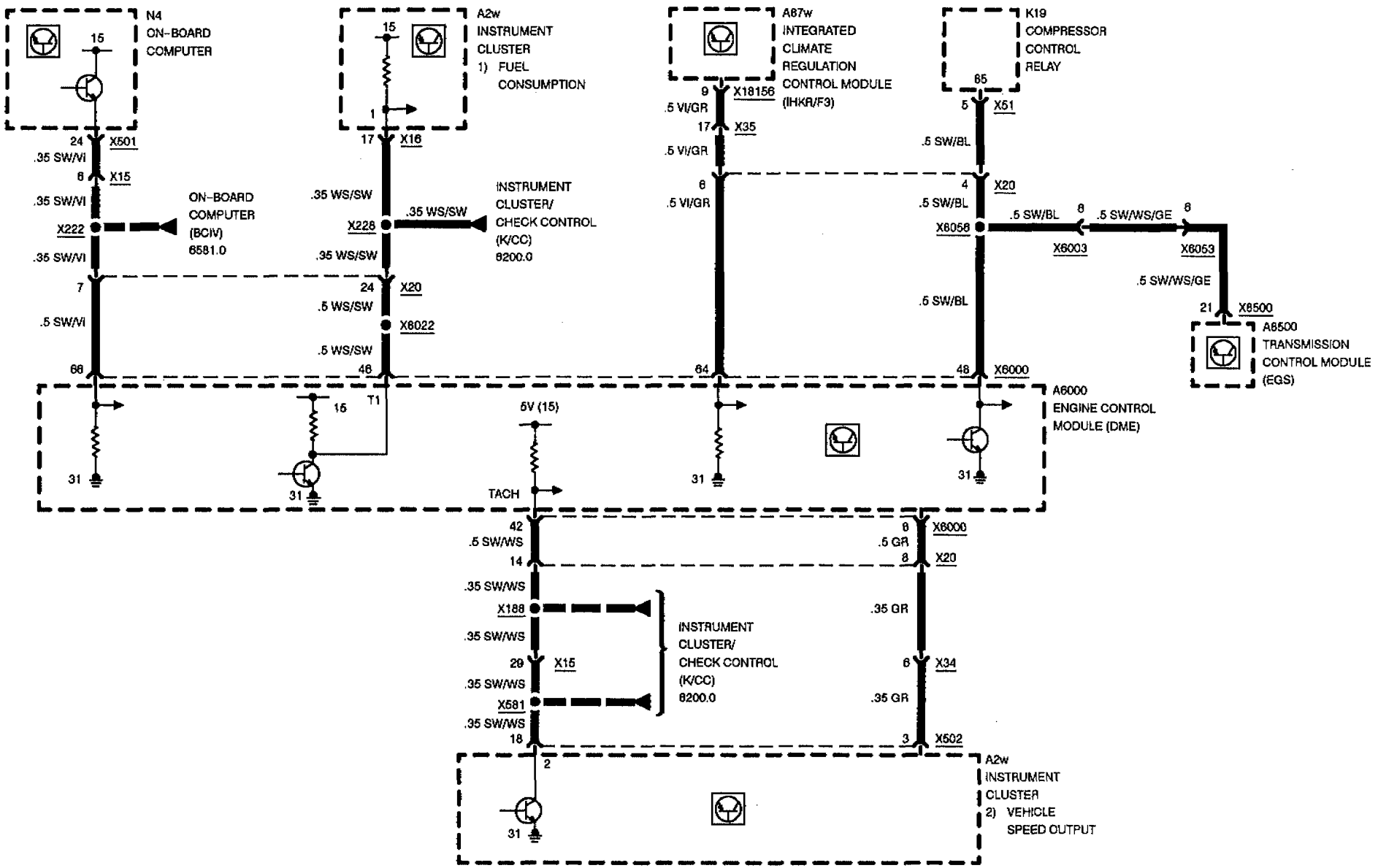
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ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



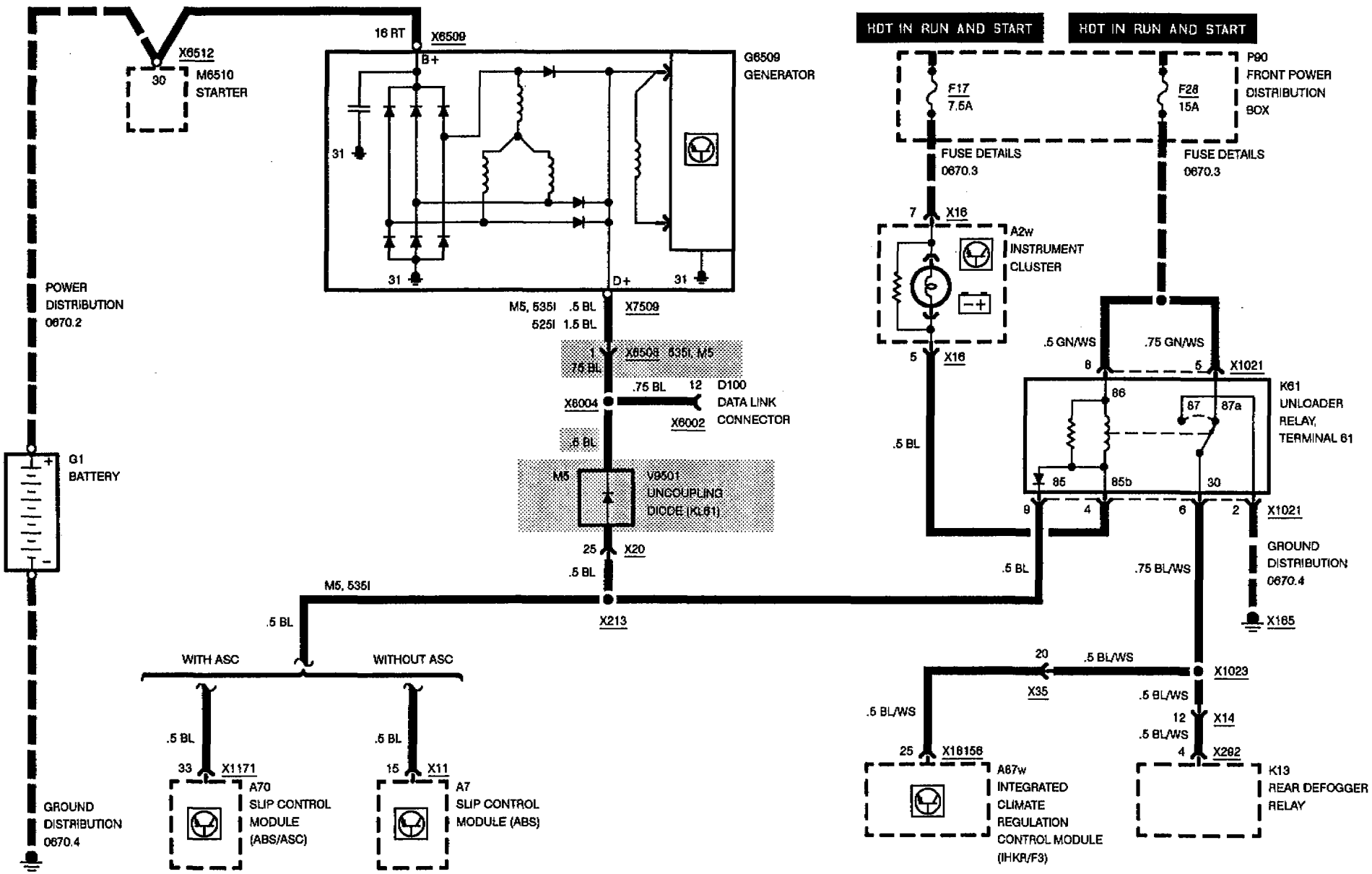
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ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



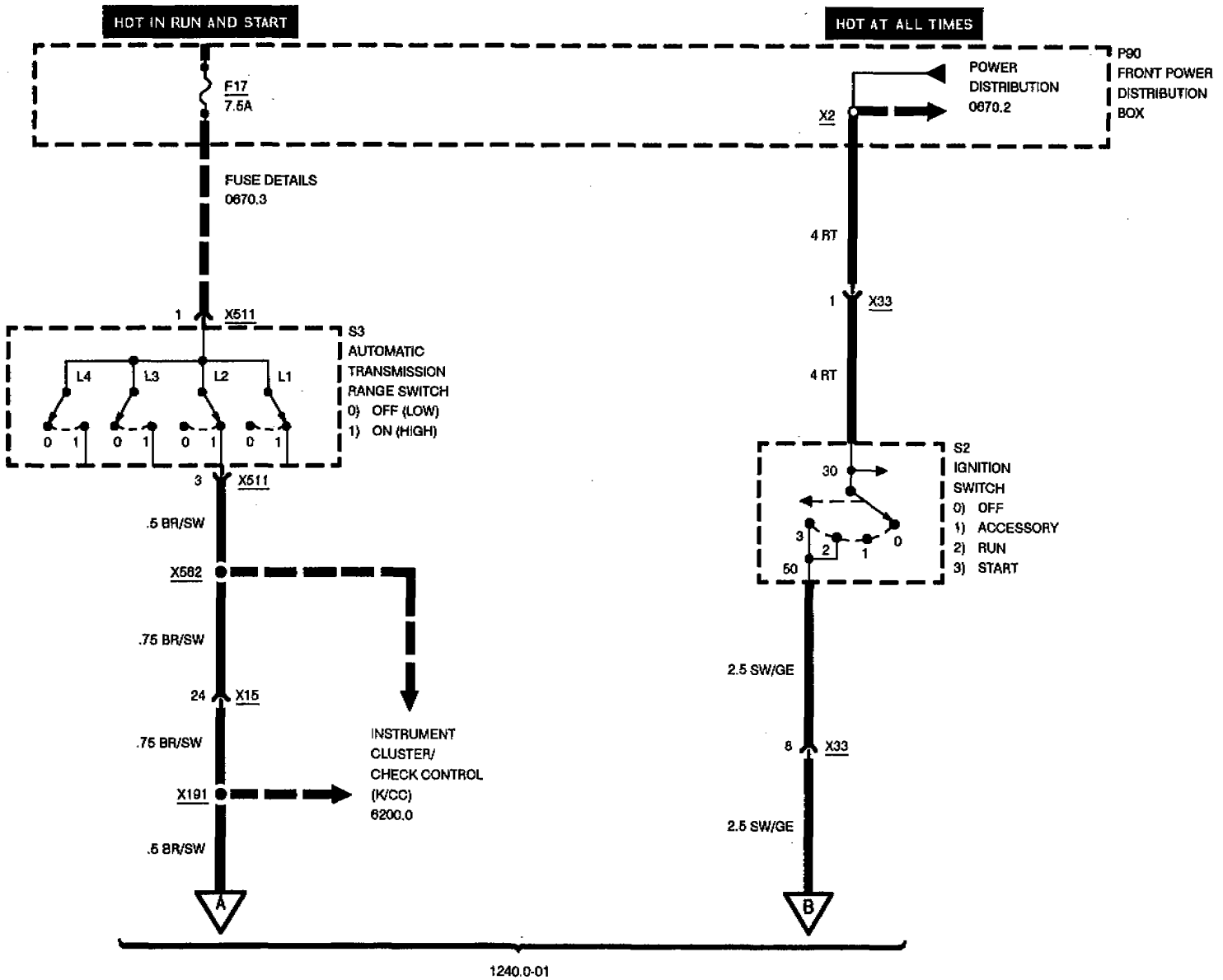
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CHARGING SYSTEM



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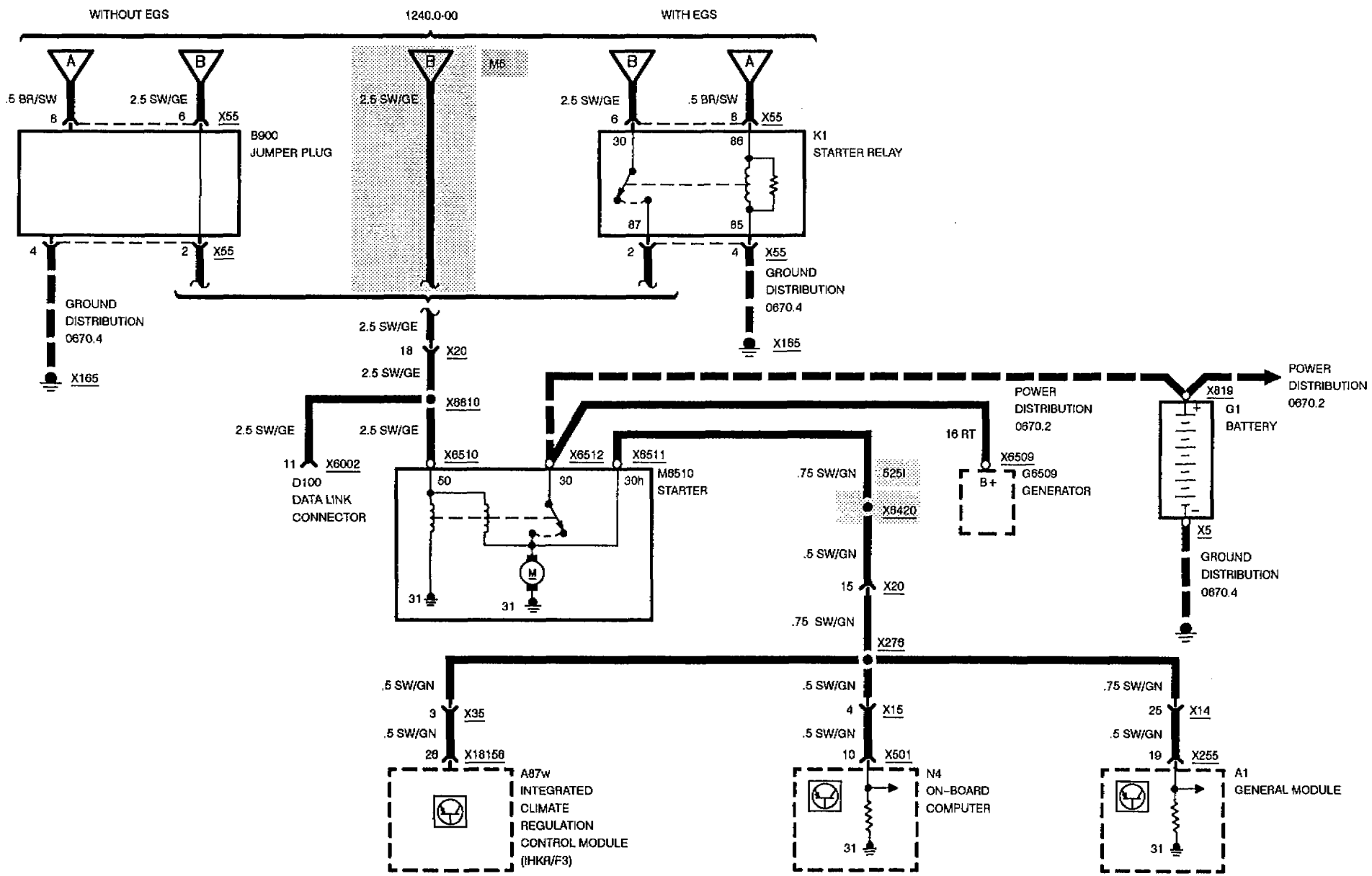


1240.0-01

EGS 4HP 22
EGS A4S 310R

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

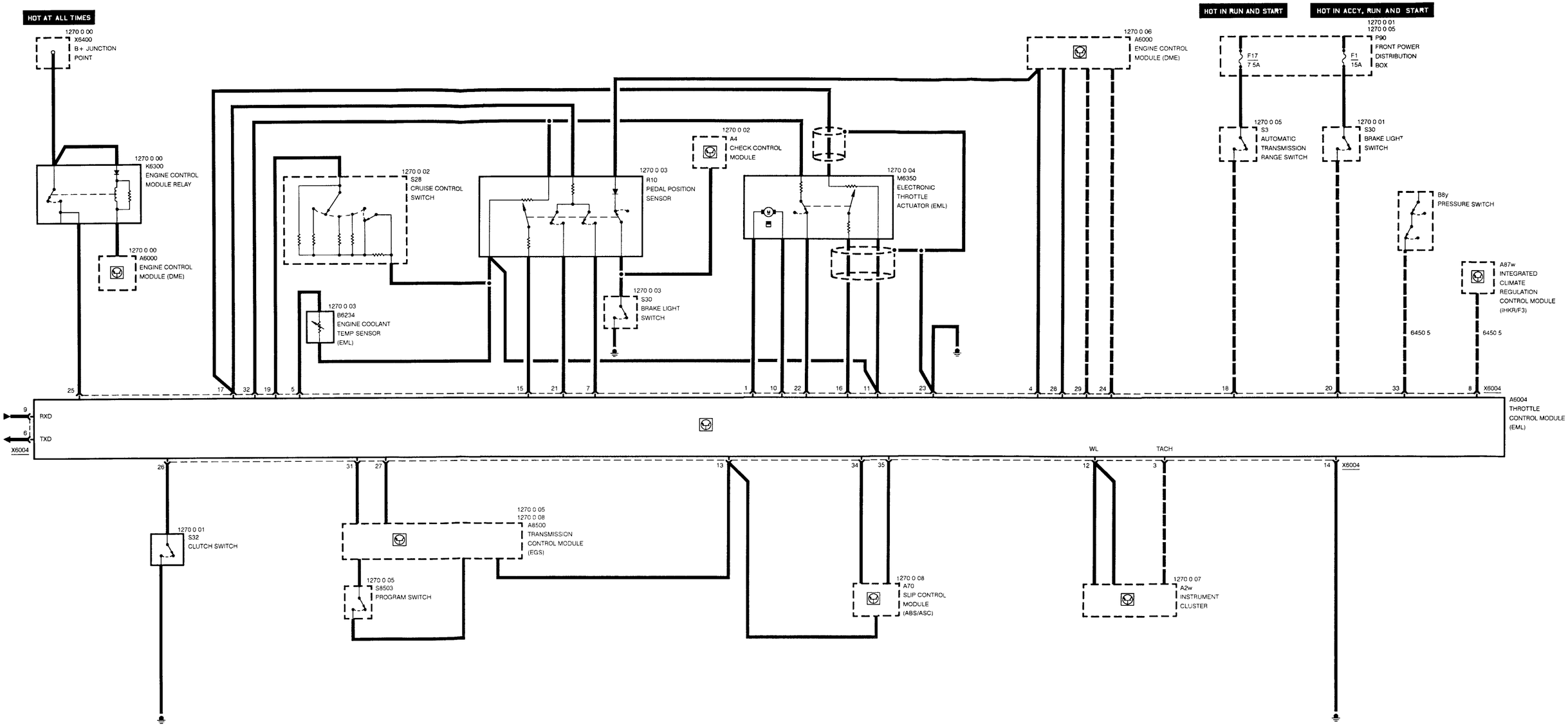
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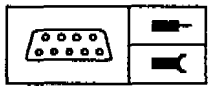
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12/93 — 1270 0 — 1993
12/93 — 1270 0 — 1993



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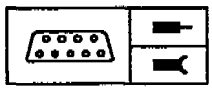
Pin Assignments

X6004

Pin	Type	Description/Function	Connection
1	A/E	Drive throttle body	Throttle body (EML)
2		Not used	
3	E	Vehicle speed signal	Instrument cluster
4	A	Idle signal	Engine control module (DME)
5	A/E	Engine coolant temperature (EML)	Engine coolant temperature sensor (EML)
6	E/A	TxD diagnostic data line	Data link connector
7	E	Kick-down signal	Pedal position sensor
8	E	A/C system signal	Integrated climate regulation 3 control module
9	E	RxD diagnostic data line	Data link connector
10	A/E	Drive throttle body	Throttle body (EML)
11	M	Electronic ground	Component ground
12	A	EML warning lamp control	Instrument cluster
13	A	Throttle position signal	Slip control module (ABS/ASC)/ Transmission control module (EGS)
14	M	Output ground	Ground point
15	E	Throttle position	Pedal position sensor
16	E	Actuator position sensor	Throttle body (EML)
17	A	5 V (not short circuit proof)	Pedal position sensor/ throttle body (EML)
18	E	P and N identifier (EGS)	Automatic transmission range switch
19	E/A	Cruise control switch signal	Cruise control switch
20	E	Brake pedal status signal	Brake light switch
21	E	PWG 9° switch	Pedal position sensor
22	E	Throttle 17° switch	Throttle body (EML)
23	M	Shield ground	Throttle body (EML) shield/ Ground point
24	E	Injection signal ti	Engine control module (DME)
25	E	Voltage supply	Engine control module relay
26	E	Clutch pedal status signal	Clutch switch
27	A	Kick-down signal	Transmission control module (EGS)
28	A	Full load signal	Engine control module (DME)
29	E	Crankshaft RPM signal (TD)	Engine control module (DME)

E = Input, A = Output, M = Ground

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Pin Assignments

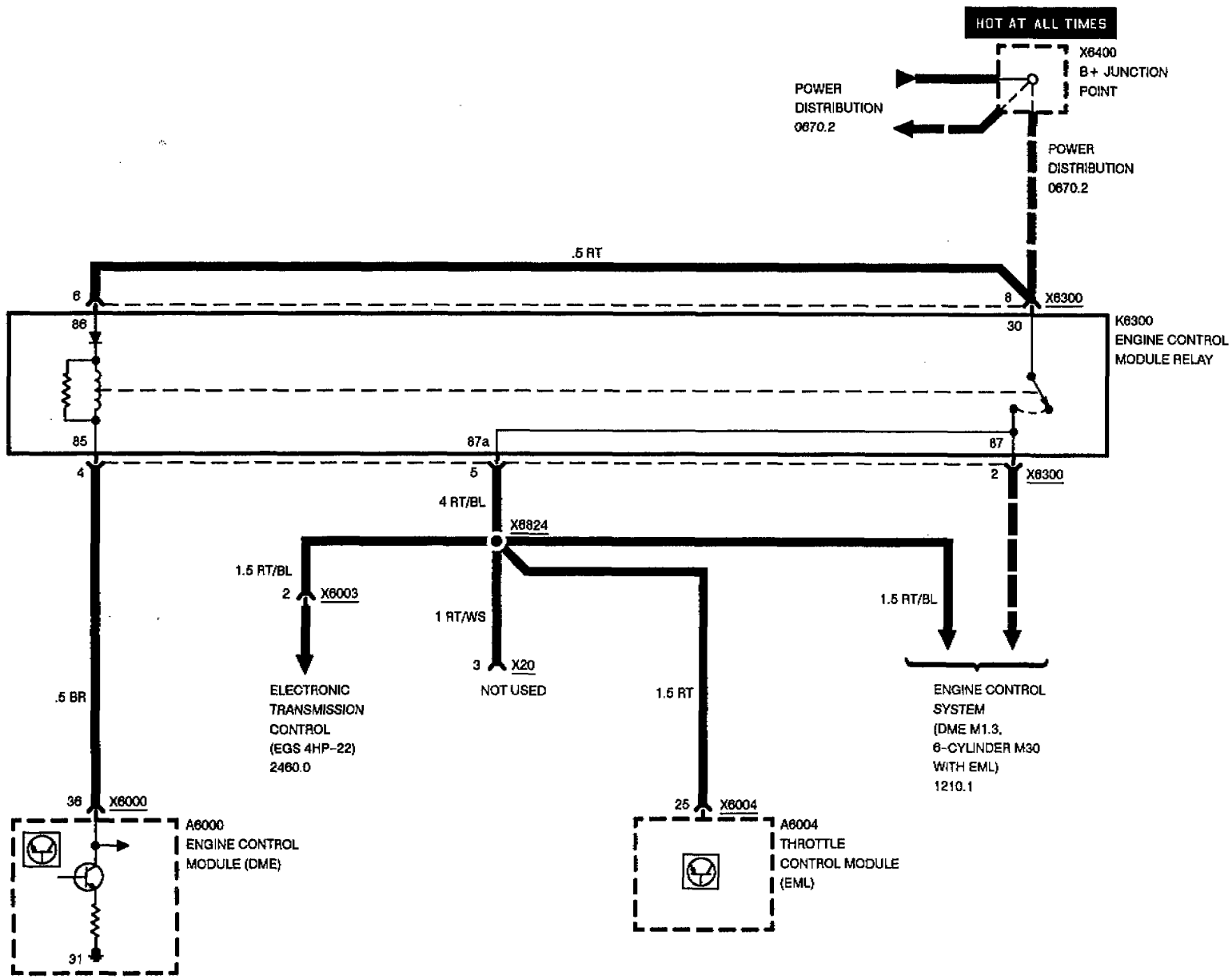
Pin	Type	Description/Function	Connection
30		Not used	
31	E	S-program identification	Transmission control module (EGS)/ Program switch
32	A	5 V (not short circuit proof)	Pedal position sensor/ Throttle body (EML)
33	E	A/C compressor ON	Pressure switch
34	E	Decrease throttle position angle (DKR)	Slip control module (ABS/ASC)
35	E	Increase throttle position angle (DKE)	Slip control module (ABS/ASC)

E = Input, A = Output, M = Ground

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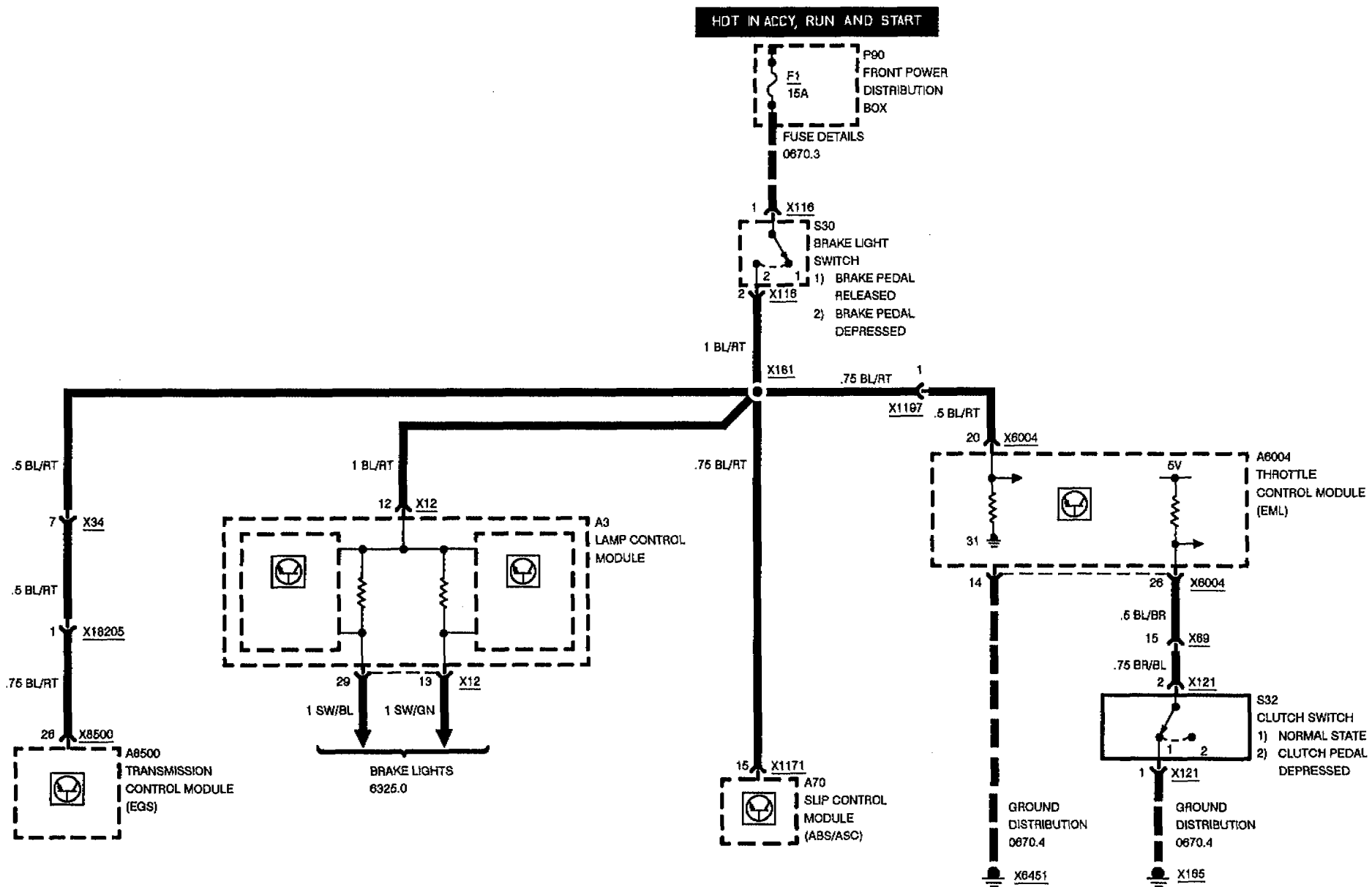
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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)



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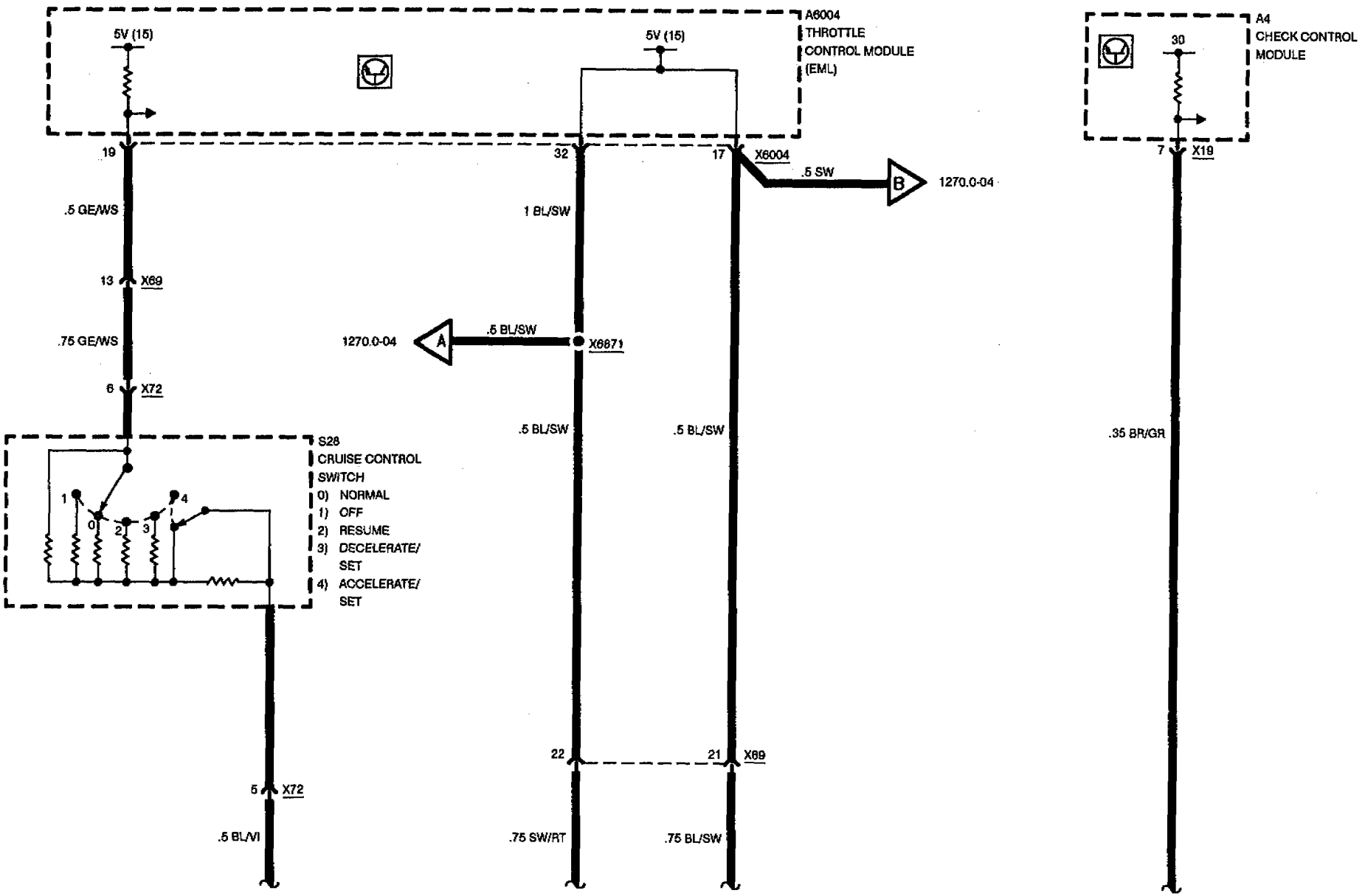
ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)



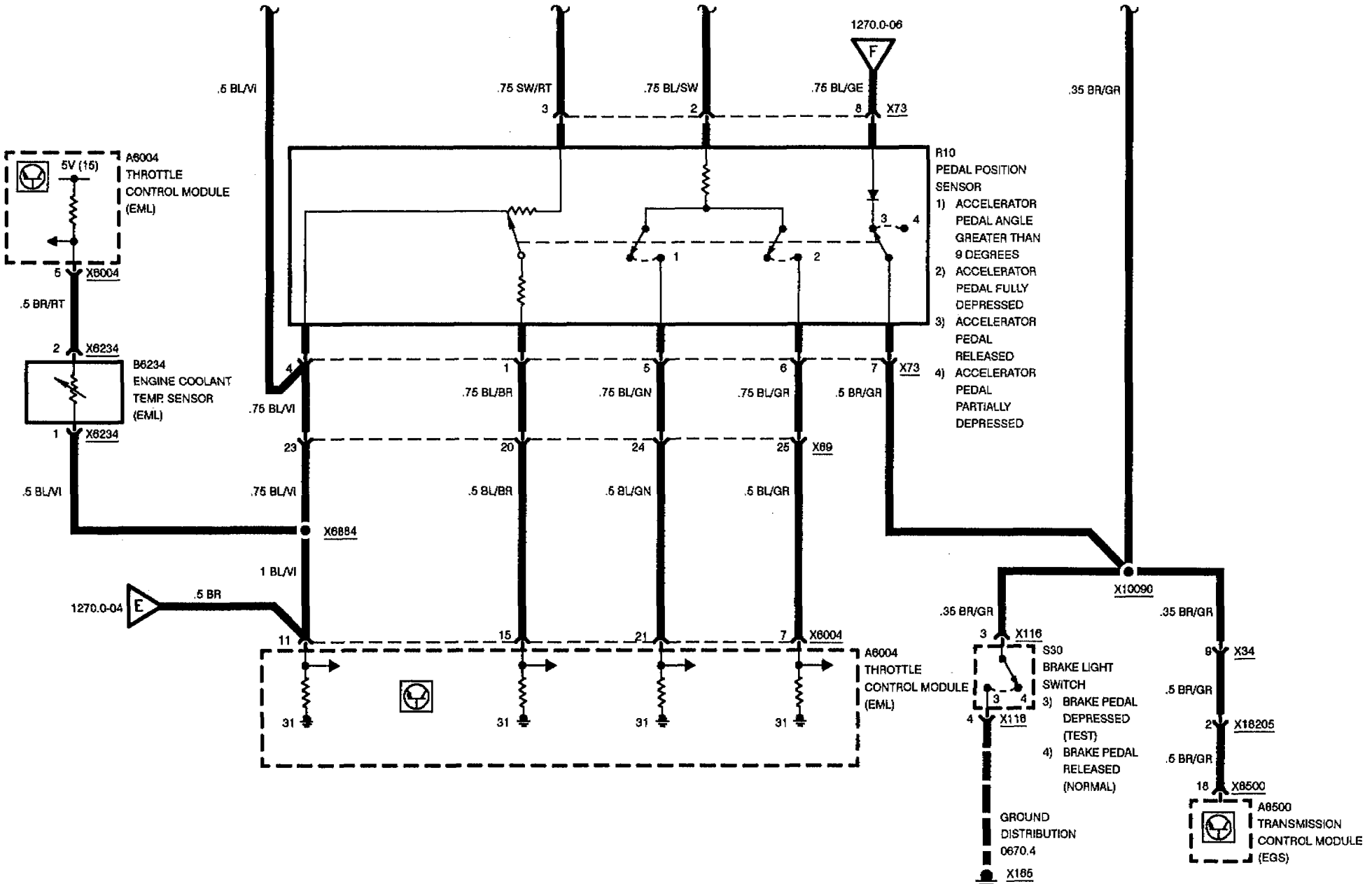
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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

535i

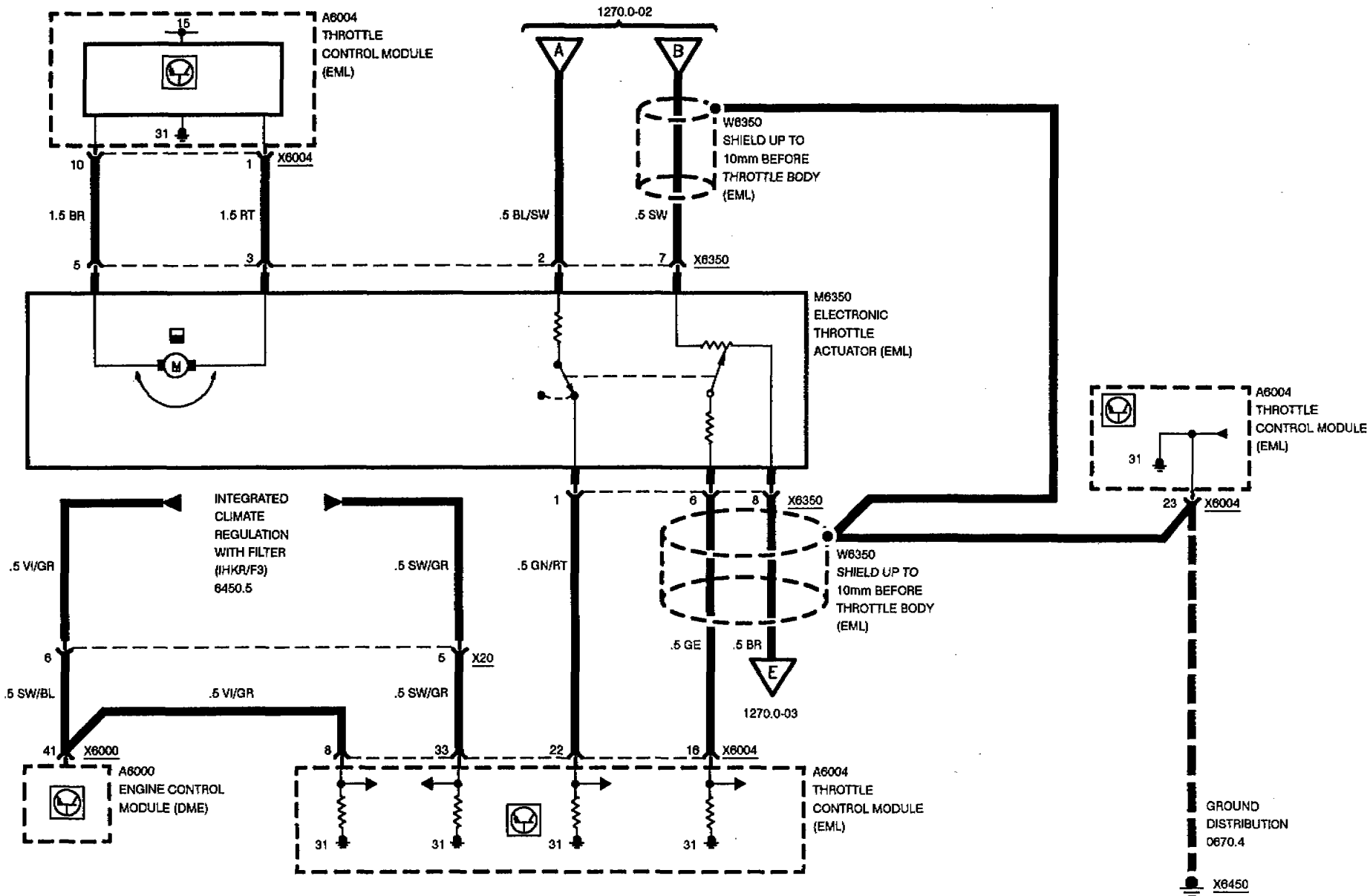


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.5 BL/VI
.75 SW/RT
.75 BL/SW
.75 BL/GE
1270.0-06
F
3
2
8
X73
.35 BR/GR
A6004
THROTTLE
CONTROL MODULE
(EML)
5V (15)
5
X6004
.5 BR/RT
2
X6234
B6234
ENGINE COOLANT
TEMP SENSOR
(EML)
1
X6234
R10
PEDAL POSITION
SENSOR
1) ACCELERATOR PEDAL ANGLE GREATER THAN 9 DEGREES
2) ACCELERATOR PEDAL FULLY DEPRESSED
3) ACCELERATOR PEDAL RELEASED
4) ACCELERATOR PEDAL PARTIALLY DEPRESSED
4
.75 BL/VI
1
.75 BL/BR
5
.75 BL/GN
6
.75 BL/GR
7
.5 BR/GR
X73
23
.75 BL/VI
20
.5 BL/BR
24
.5 BL/GN
25
.5 BL/GR
X69
.5 BL/VI
X6884
1 BL/VI
1270.0-04
E
.5 BR
11
15
21
7
X6004
31
31
31
31
A6004
THROTTLE
CONTROL MODULE
(EML)
X10090
.35 BR/GR
3
X116
S30
BRAKE LIGHT
SWITCH
3) BRAKE PEDAL DEPRESSED (TEST)
4) BRAKE PEDAL RELEASED (NORMAL)
4
X116
GROUND
DISTRIBUTION
0670.4
X185
.35 BR/GR
9
X34
.5 BR/GR
2
X18205
.5 BR/GR
18
X8500
A6500
TRANSMISSION
CONTROL MODULE
(EGS)

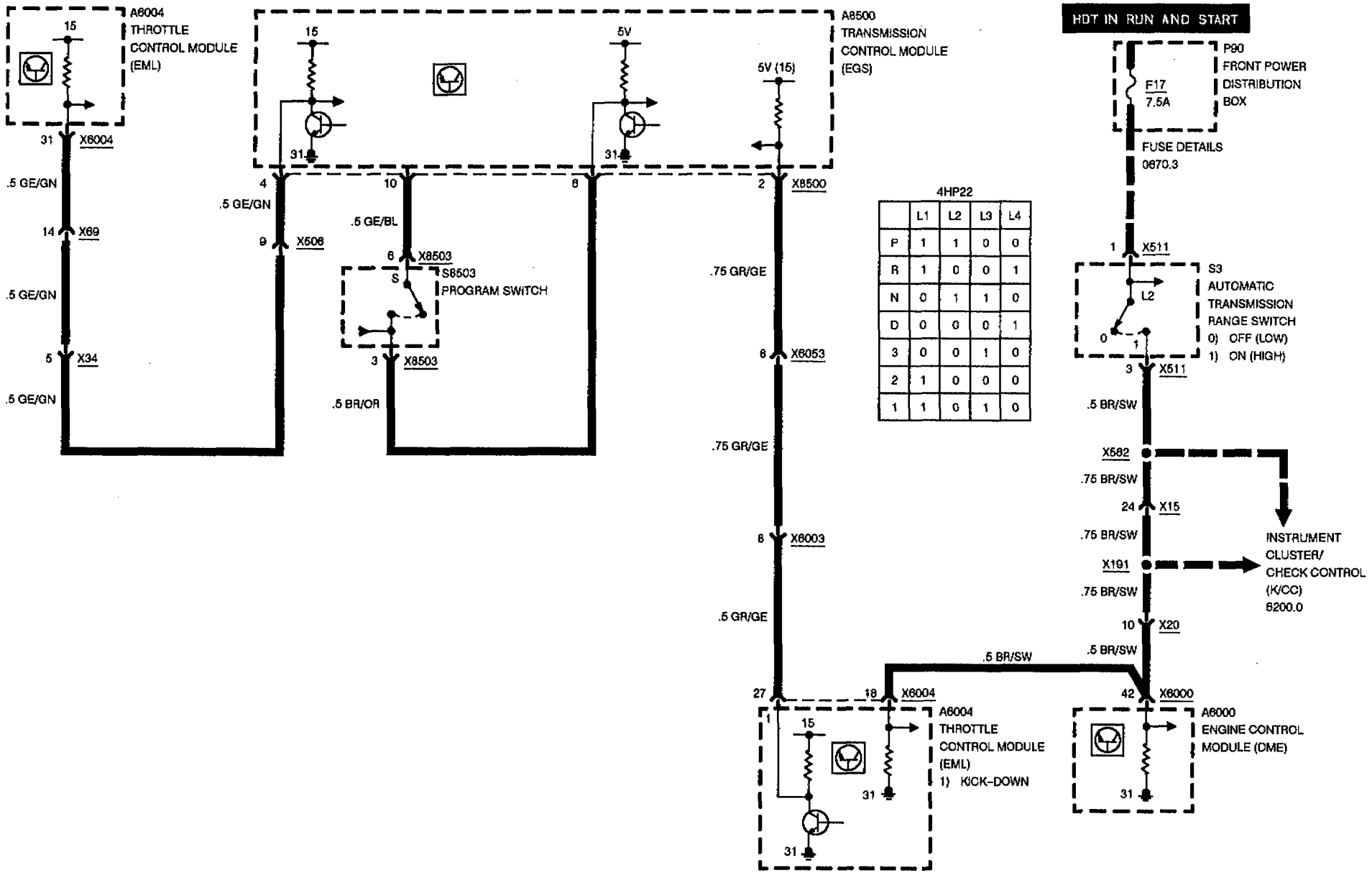
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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)



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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

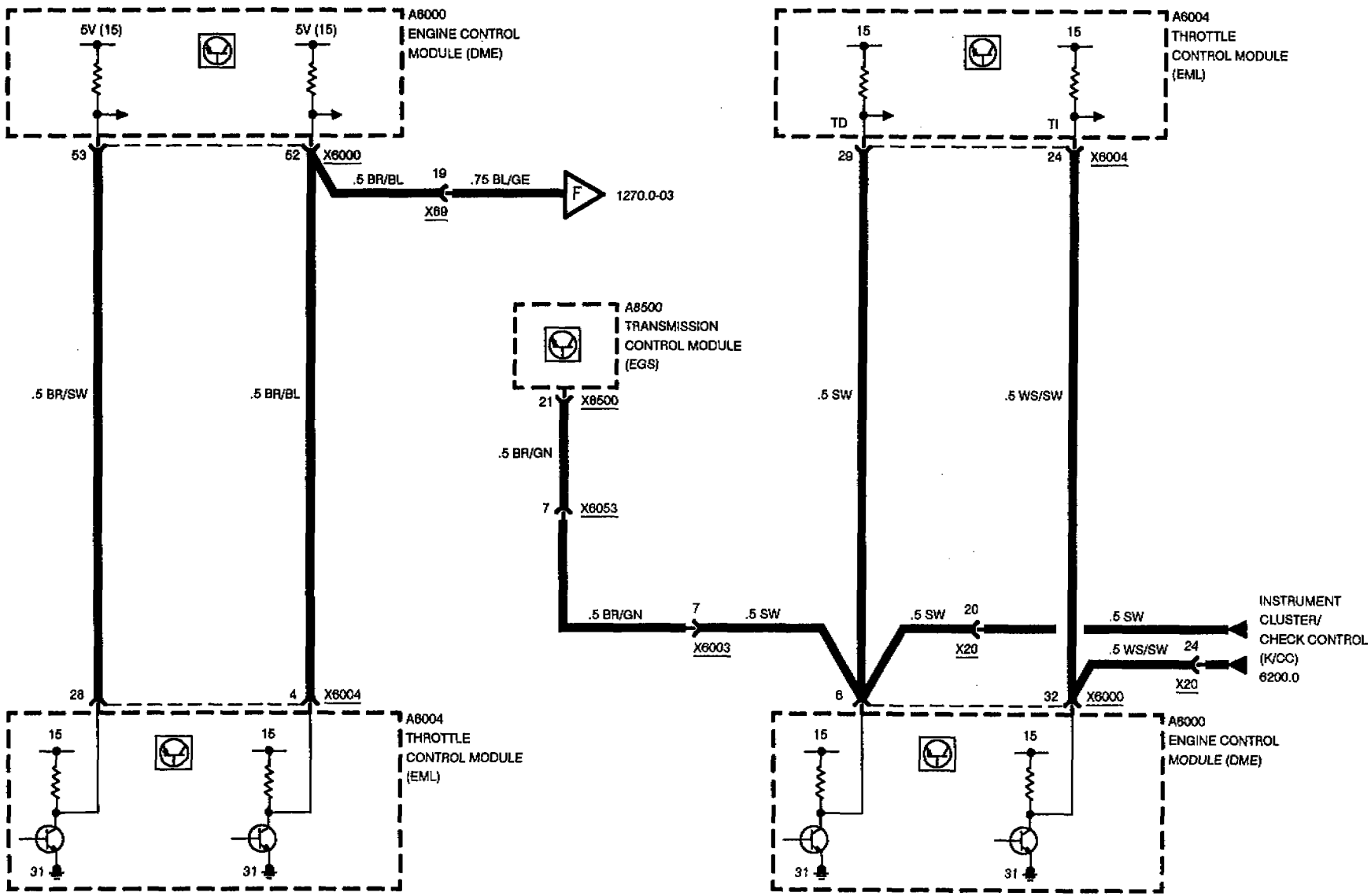


4HP22

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

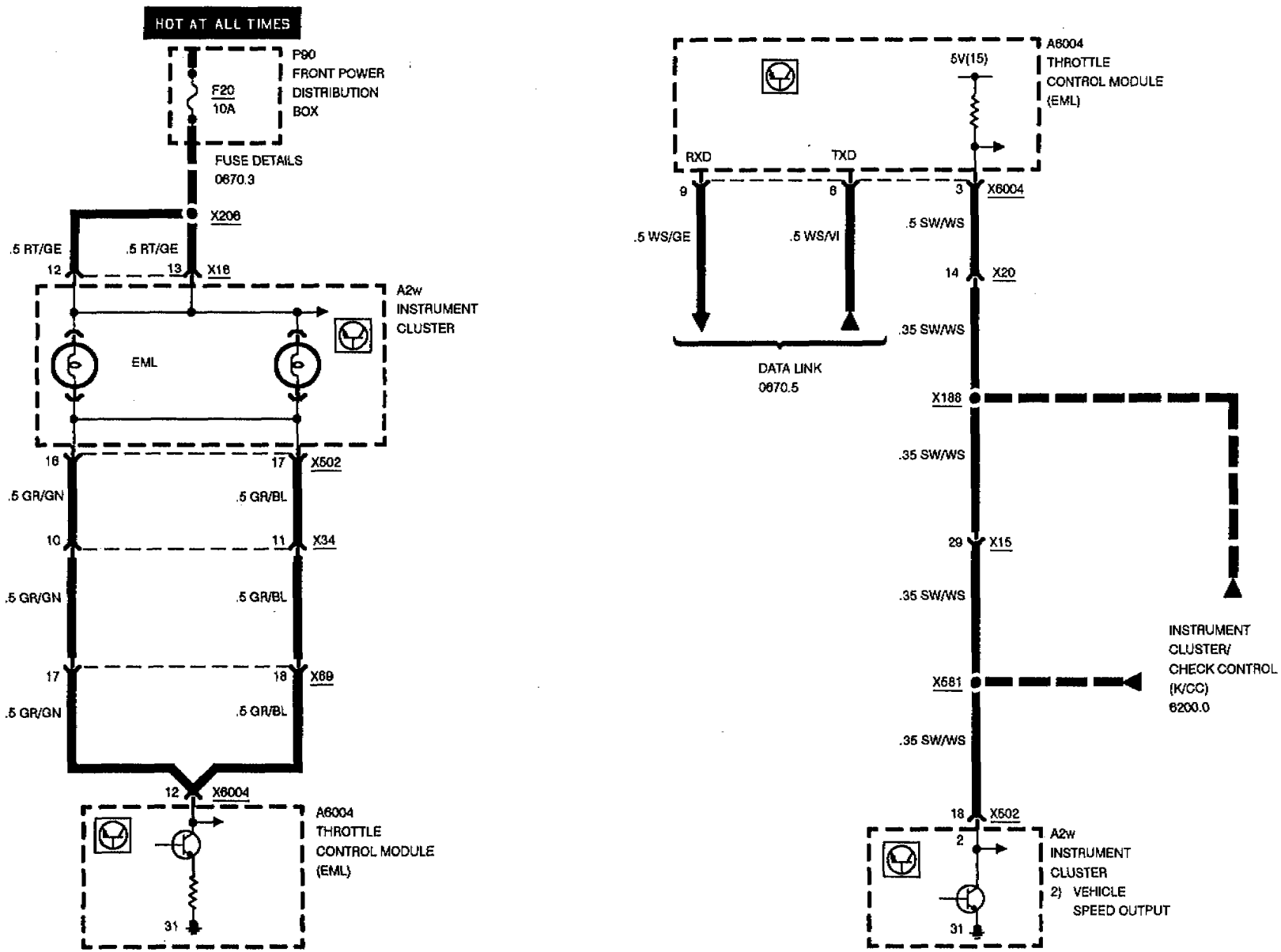
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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)



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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

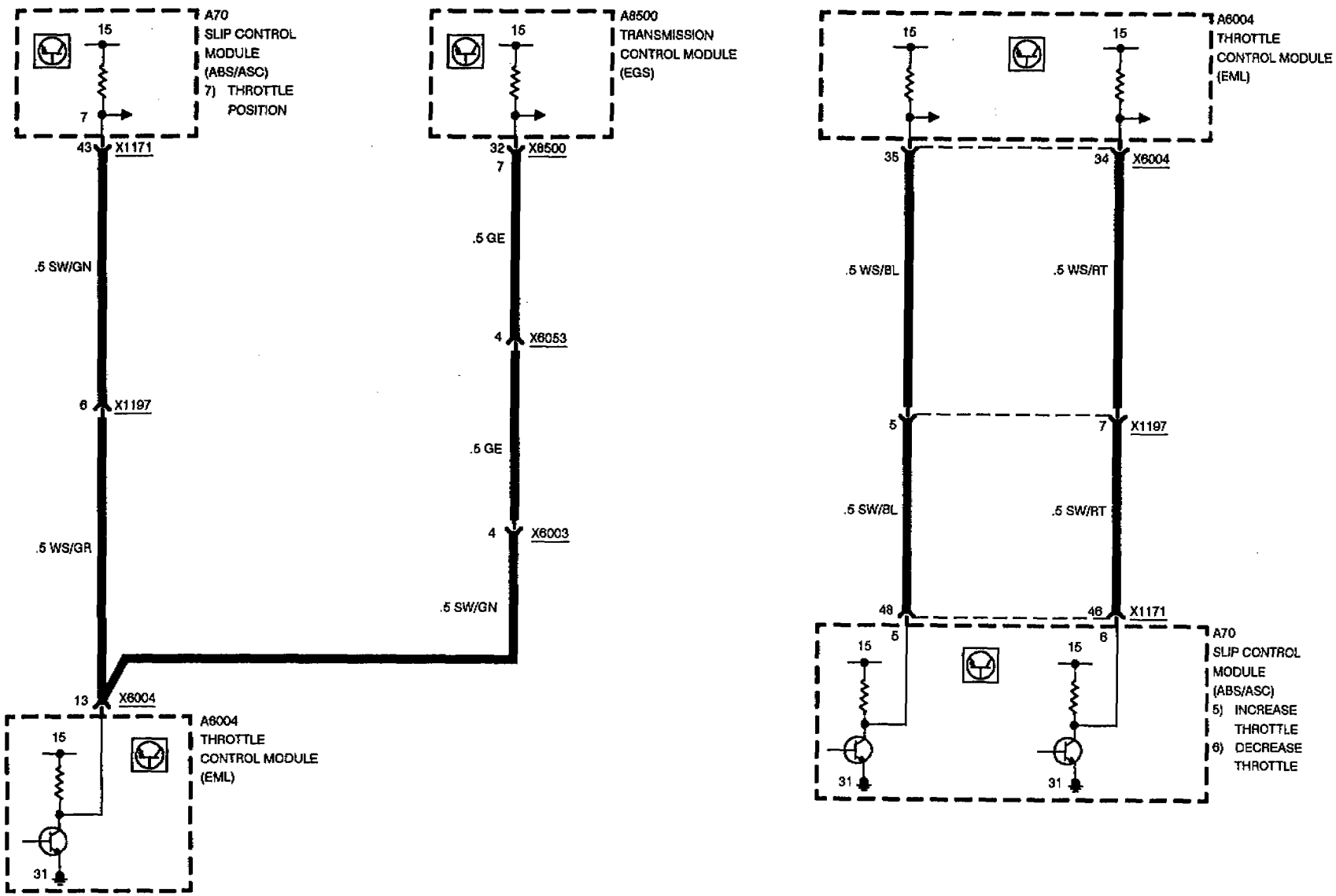


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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

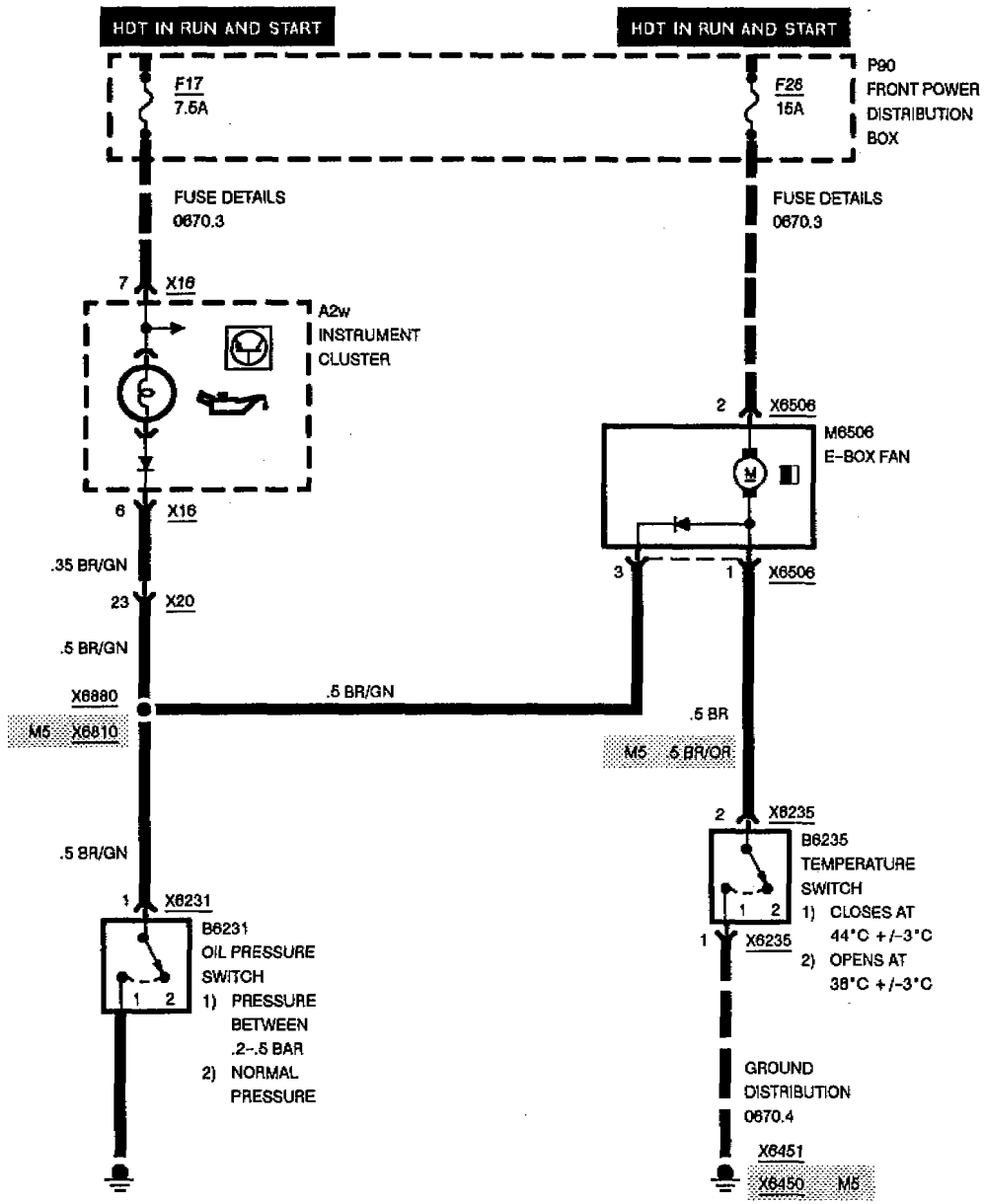
ENGINE CONTROL SYSTEMS (DME)

535i



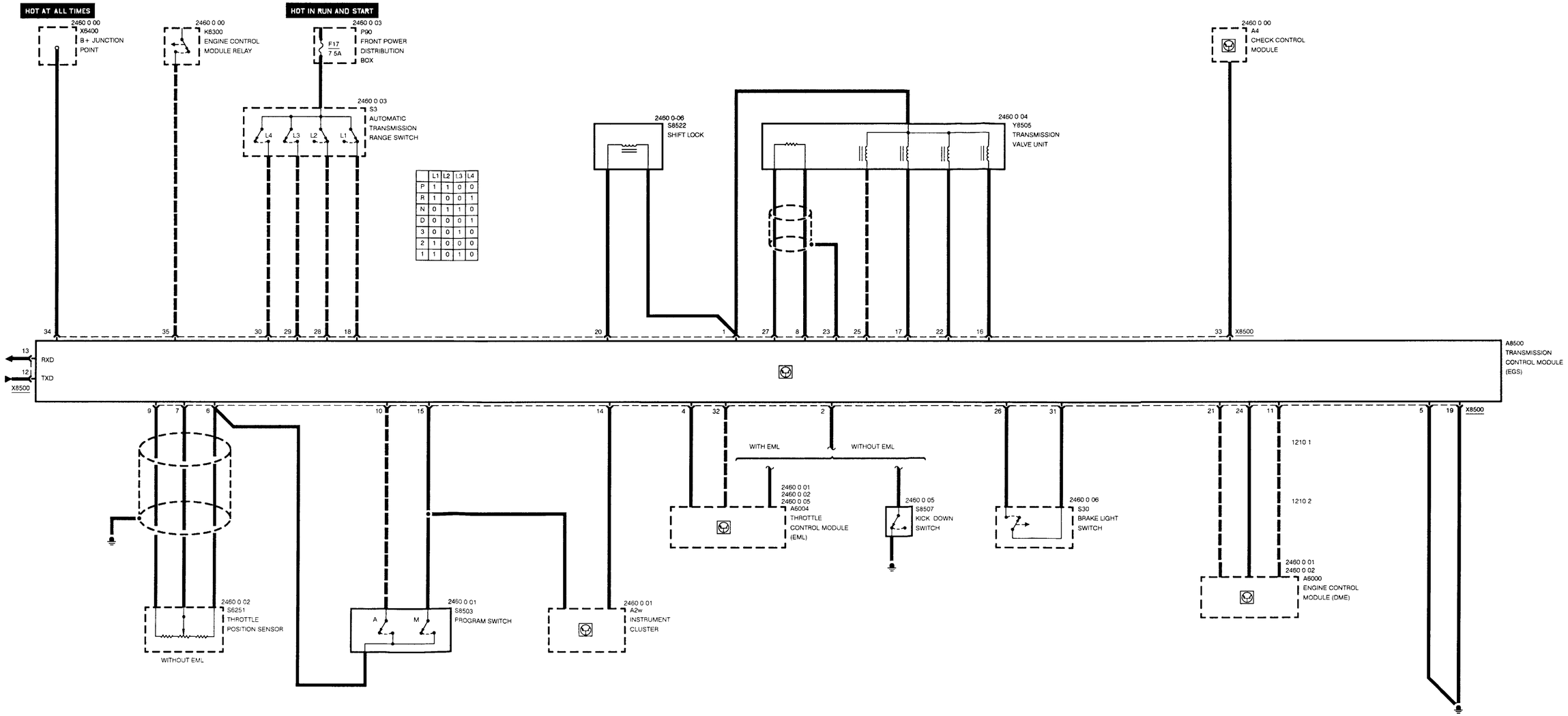
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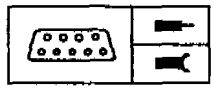


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12/93 — 2460 0 — 1993
12/93 — 2460 0 — 1993



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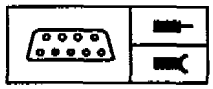
Pin Assignments

X8500

Pin	Type	Description/Function	Connection
1	A	Voltage supply	Transmission gear shift unit, shift lock
2	E	Kick-down signal	Electronic throttle module (with EML) Kick-down switch (without EML)
3		Not used	
4	E/A	EML control unit signal	Electronic throttle module (EML)
5	M	Ground, control module	Ground point
6	A	Ground	Program switch/Throttle position sensor
7	E	Throttle signal	Throttle position sensor
8	E	Output speed n-ab (+)	Transmission gear shift unit
9	A	Voltage supply, throttle position sensor	Throttle position sensor
10	E	Automatic mode signal	Program switch
11	E	ti measurement signal (fuel consumption)	Engine control module (DME)
12	E/A	TxD diagnostic data link	Data link connector
13	E	RxD diagnostic data link	Data link connector
14	A	Program signal	Instrument cluster
15	E/A	Manual mode signal	Program switch, instrument cluster
16	A	Solenoid valve 1 control	Transmission gear shift unit
17	A	Hydraulic pressure regulator control	Transmission gear shift unit
18	E	Gear range signal L1	Automatic transmission range switch
19	M	Ground, control module	Ground point
20	A	Shift lock solenoid control	Shift lock
21	E	Crankshaft RPM speed signal TR	Engine control module (DME)
22	A	Solenoid valve 2 control	Transmission gear shift unit
23	A	Shield for speed sensor	Transmission gear shift unit shield
24	A	Engine intervention	Engine control module (DME)
25	A	Torque converter clutch solenoid valve control	Transmission gear shift unit
26	E	Brake switch test signal	Brake light switch
27	E	Output speed n-ab (-)	Transmission gear shift unit
28	E	Gear range signal L2	Automatic transmission range switch
29	E	Gear range signal L3	Automatic transmission range switch

E = Input, A = Output, M = Ground

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Pin Assignments

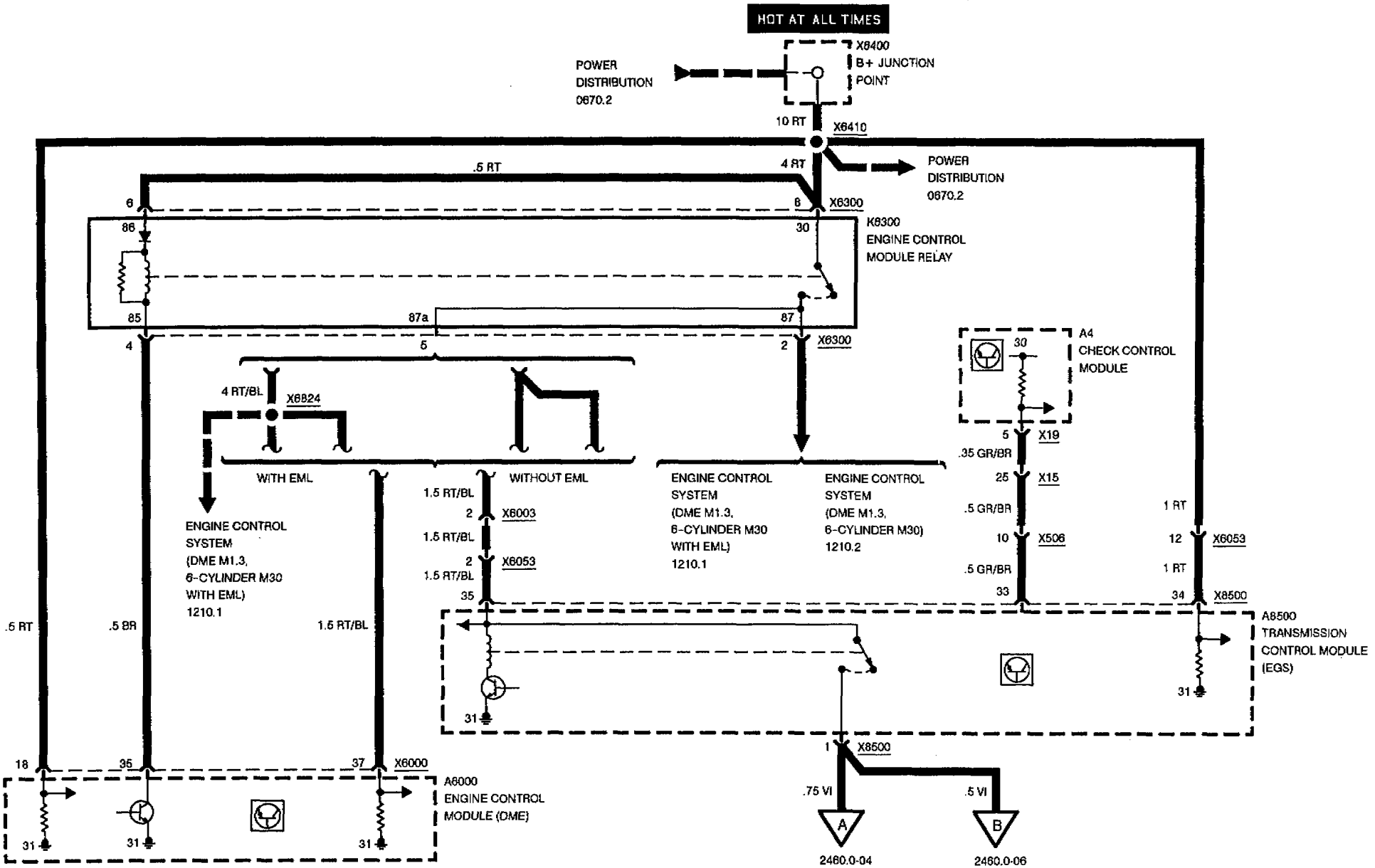
Pin	Type	Description/Function	Connection
30	E	Gear range signal L4	Automatic transmission range switch
31	A	Brake switch test signal	Brake light switch
32	E	Set throttle signal	Electronic throttle module (EML)
33	A	Fault indicator signal	Check control module
34	E	Terminal 30, voltage supply	B+ junction point
35	E	Voltage supply	Engine control module relay

E = Input, A = Output, M = Ground

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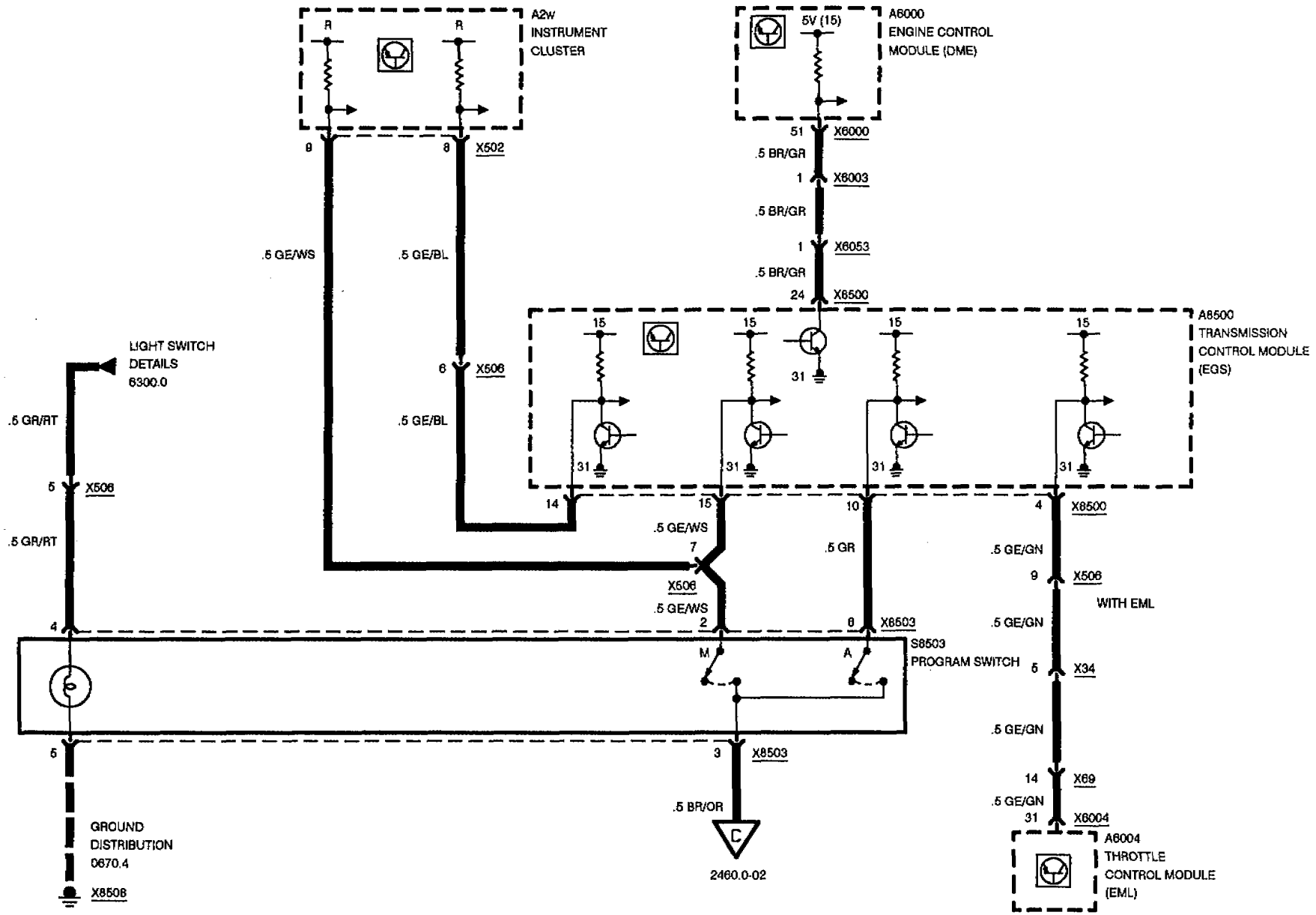
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ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)



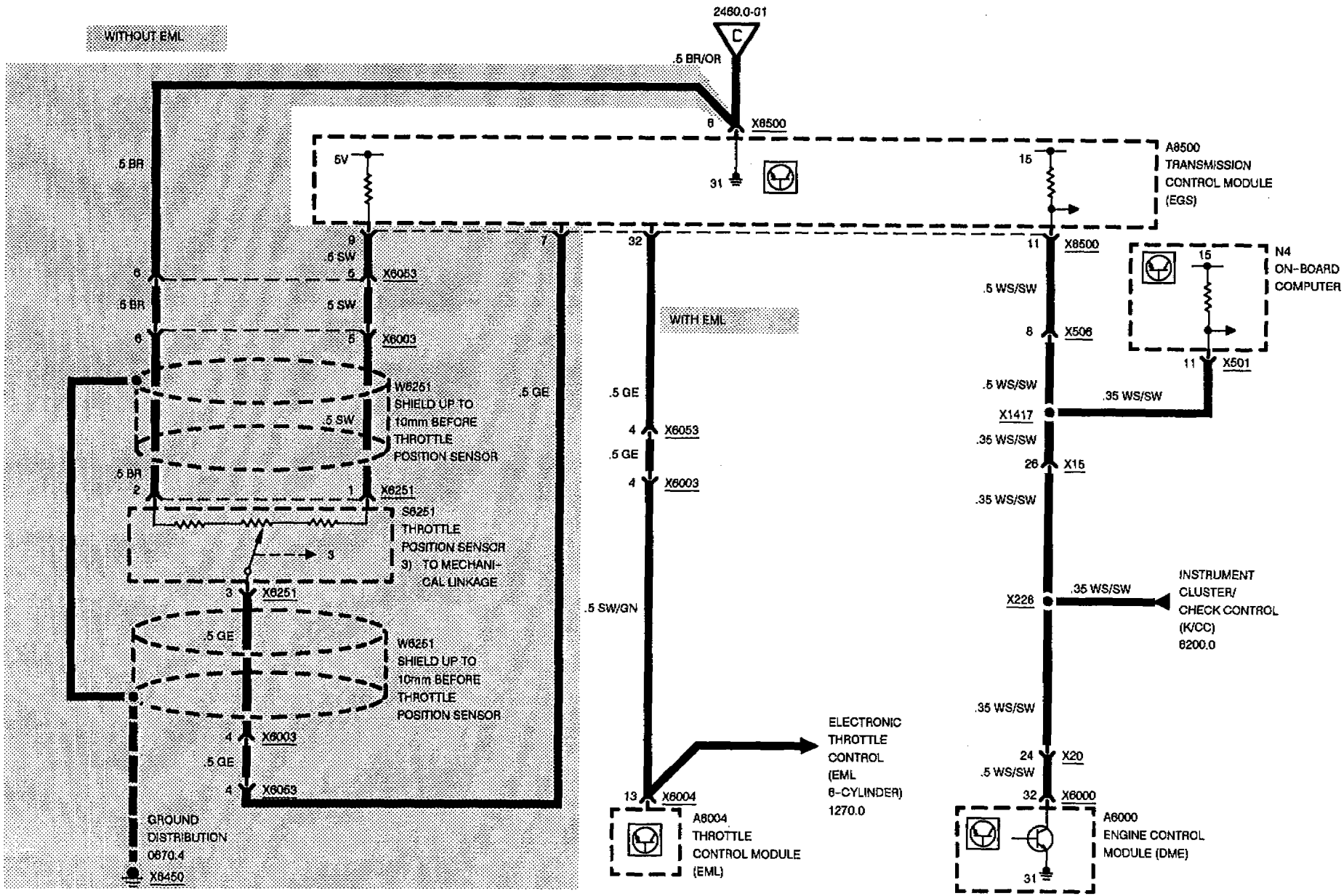
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ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)



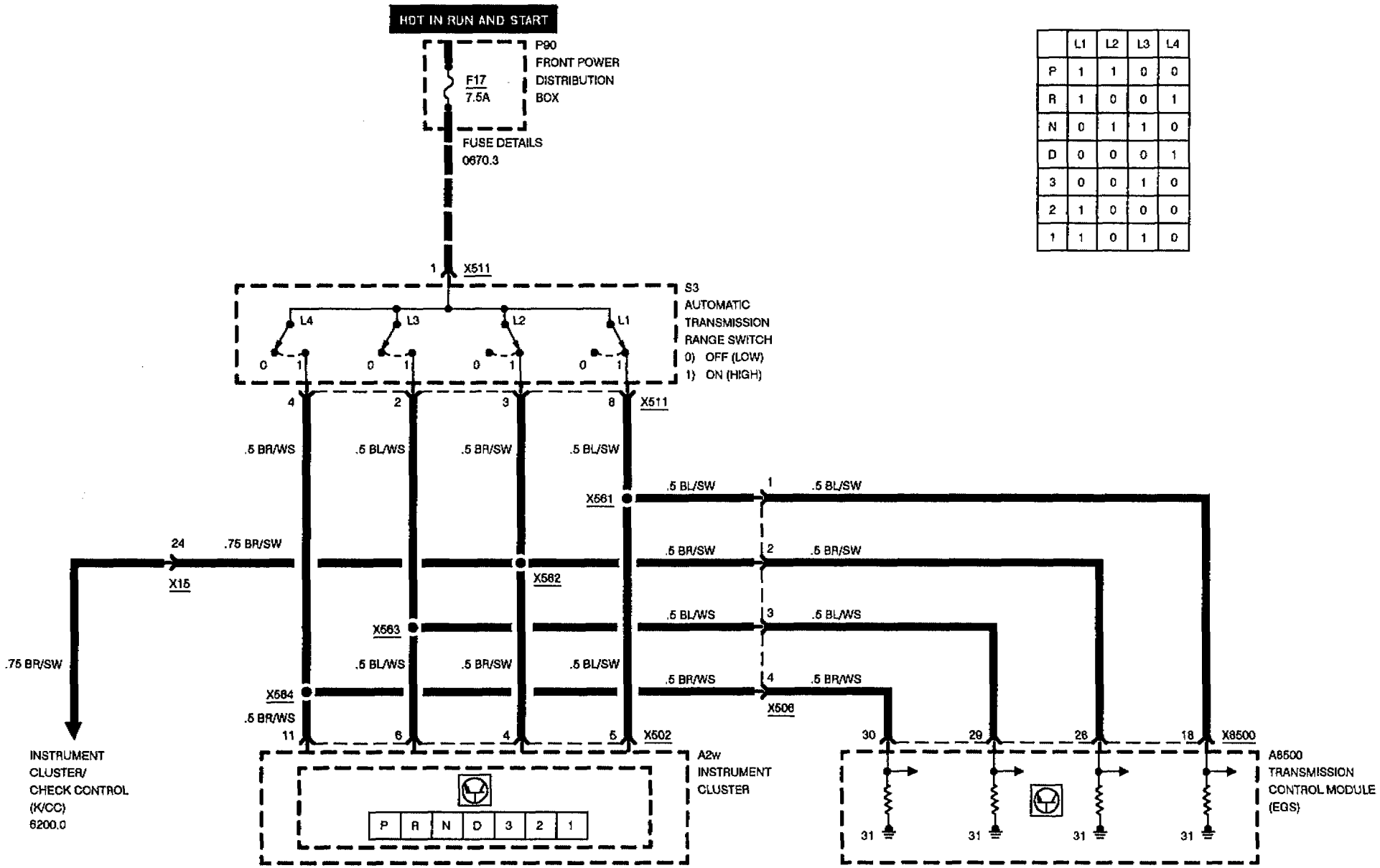
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ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)



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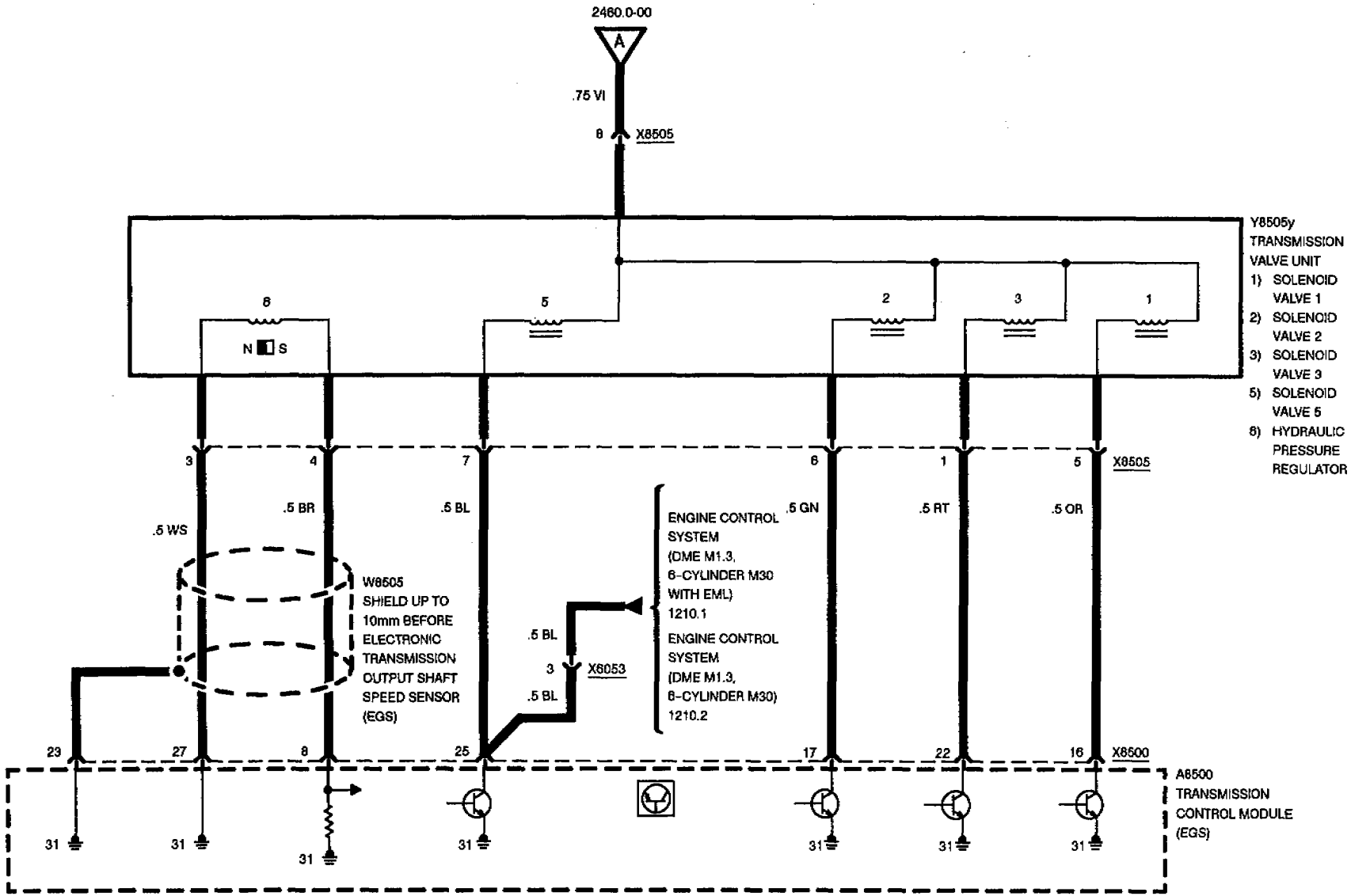
ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)



	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

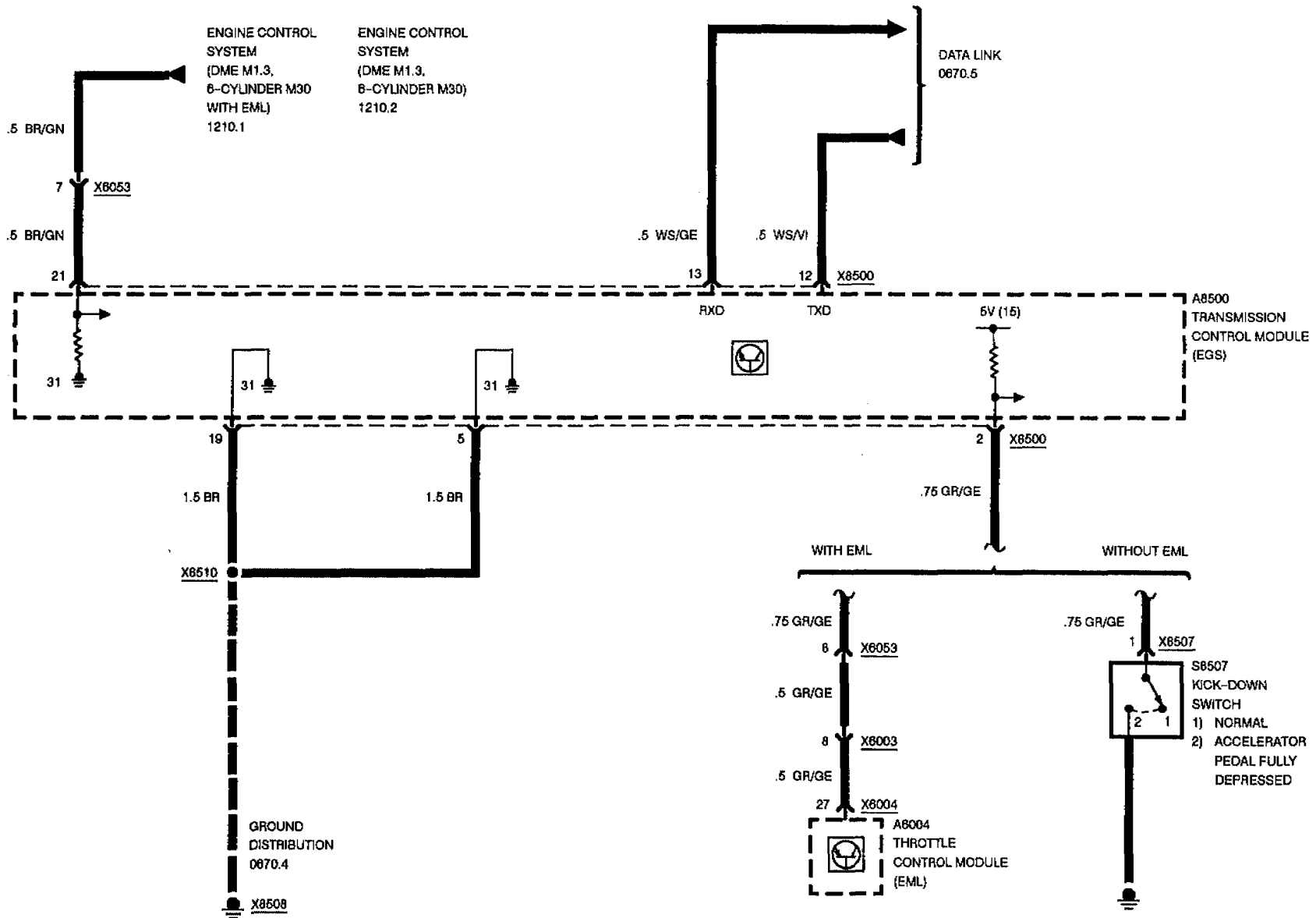
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ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)



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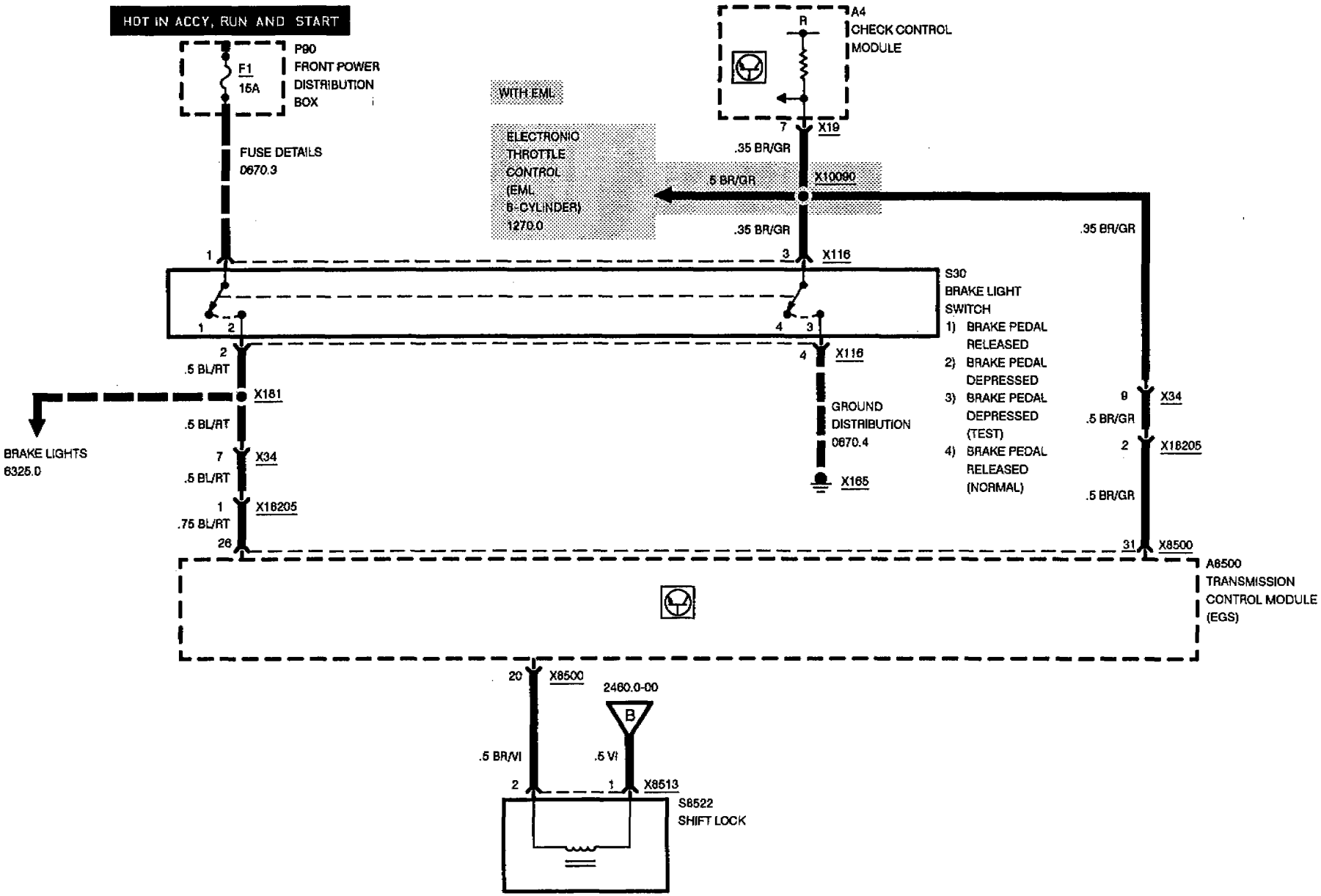
ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)



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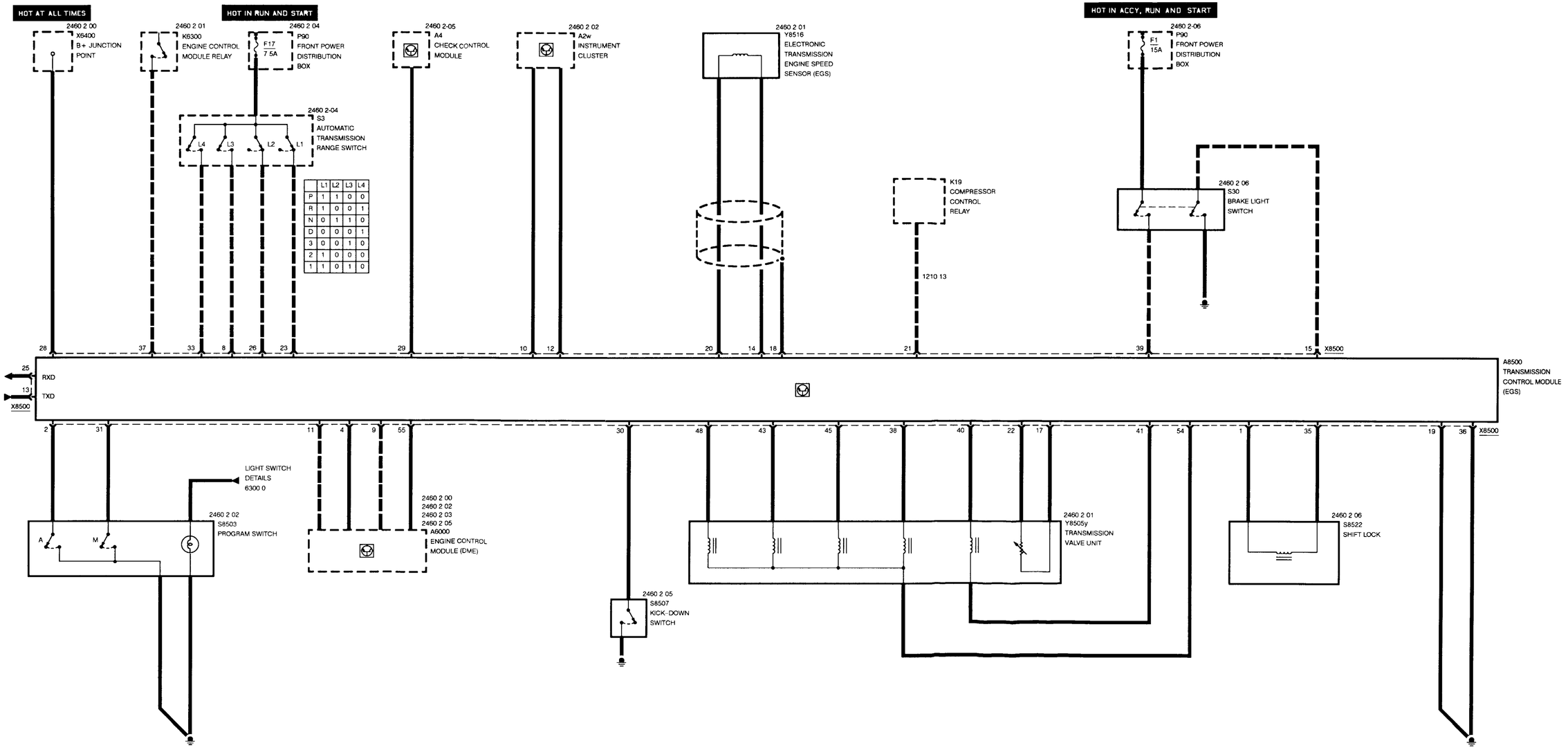
ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

SHIFT LOCK

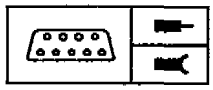


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12/93 2460 2 1993
12/93 2460 2 1993



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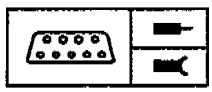
Pin Assignments

X8500

Pin	Type	Description/Function	Connection
1	A	Shift lock solenoid control	Shift lock
2	E	Automatic mode signal	Program switch
3		Not used	
4	A	Ignition timing intervention	Engine control module (DME)
5		Not used	
6		Not used	
7		Not used	
8	E	Gear range signal L3	Automatic transmission range switch
9	E	ti Measurement signal (fuel consumption)	Engine control module (DME)
10	A	Automatic mode indicator control	Instrument cluster
11	E	Crankshaft RPM speed signal TD	Engine control module (DME)
12	A	Manual mode indicator control	Instrument cluster
13	E/A	TxD diagnostic data link	Data link connector
14	E	Transmission output shaft speed (-)	Electronic transmission output shaft speed sensor (EGS)
15	E	Brake switch test signal	Brake light switch
16		Not used	
17	E	Oil temperature signal (analog ground)	Transmission gear shift unit
18	A	Shield ground	Electronic transmission output shaft speed sensor (EGS) shield
19	M	Ground, power	Ground point
20	E	Transmission output shaft speed (+)	Electronic transmission output shaft speed sensor (EGS)
21	E	A/C compressor ON signal	Compressor control relay
22	E	Oil temperature signal (+)	Transmission gear shift unit
23	E	Gear range signal L1	Automatic transmission range switch
24		Not used	
25	E	RxD diagnostic data link	Data link connector
26	E	Gear range signal L2	Automatic transmission range switch
27		Not used	
28	E	Terminal 30 voltage supply	B+ Junction Point

E = Input, A = Output, M = Ground

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Pin Assignments

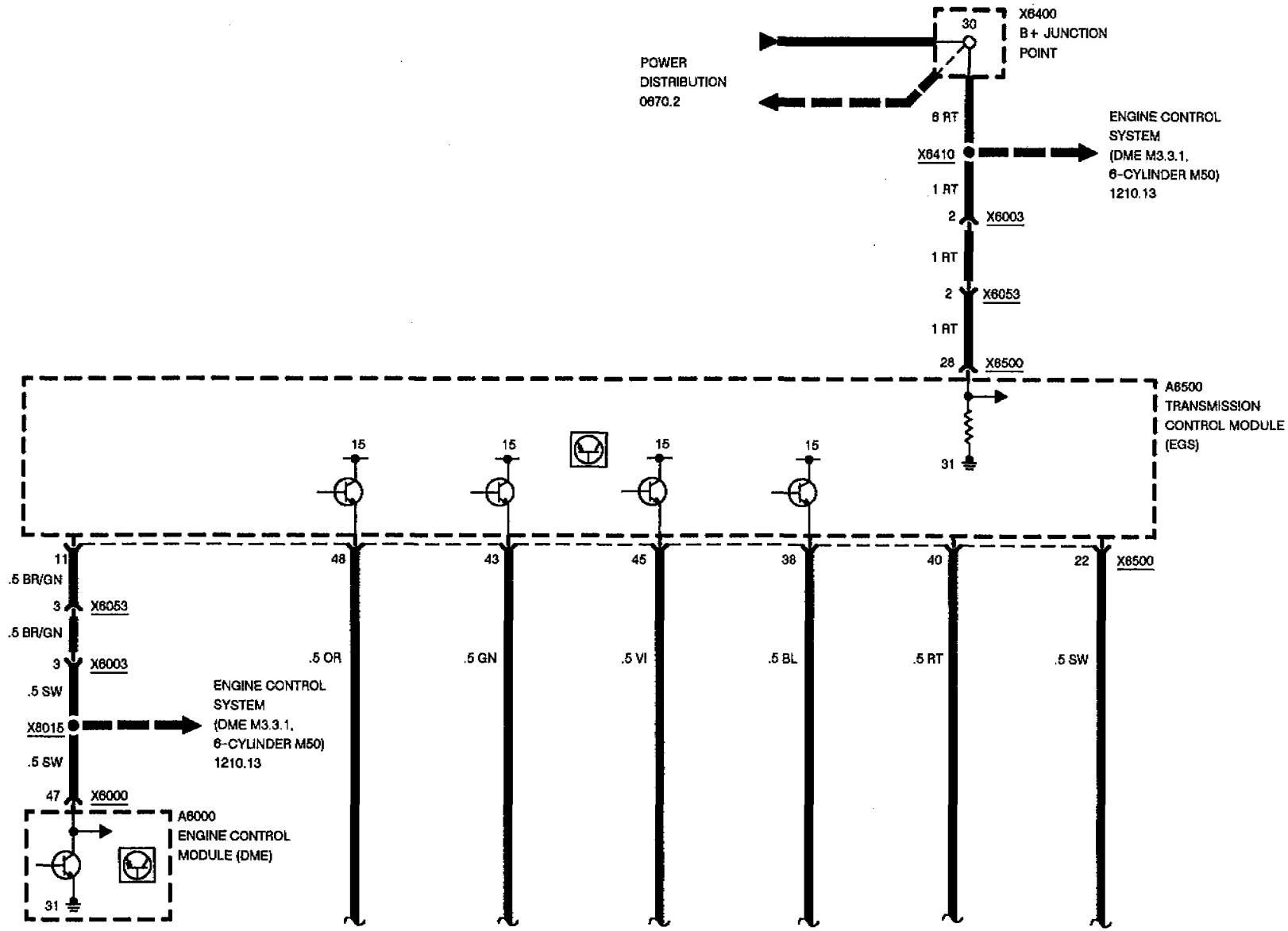
Pin	Type	Description/Function	Connection
29	A	Fault indicator signal	Check control module
30	E	Kick-down signal	Kick down switch
31	E	Manual mode signal	Program switch
32		Not used	
33	E	Gear range signal L4	Automatic transmission range switch
34		Not used	
35	A	Ground, shift lock solenoid	Shift lock
36	M	Ground, electronic	Ground point
37	E	Voltage supply	Engine control module
38	A	Torque converter clutch solenoid valve control	Transmission gear shift unit
39	E	Brake pedal position	Brake light switch
40	A	Hydraulic pressure regulator control (+)	Transmission gear shift unit
41	A	Hydraulic pressure regulator control (-)	Transmission gear shift unit
42		Not used	
43	A	Solenoid valve 2 control (+)	Transmission gear shift unit
44		Not used	
45	A	Band solenoid control (+)	Transmission gear shift unit
46		Not used	
47		Not used	
48	A	Solenoid valve 1 control (+)	Transmission gear shift unit
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54	A	Solenoid valves ground control	Transmission gear shift unit
55	E	Throttle position signal	Engine control module (DME)

E = Input, A = Output, M = Ground

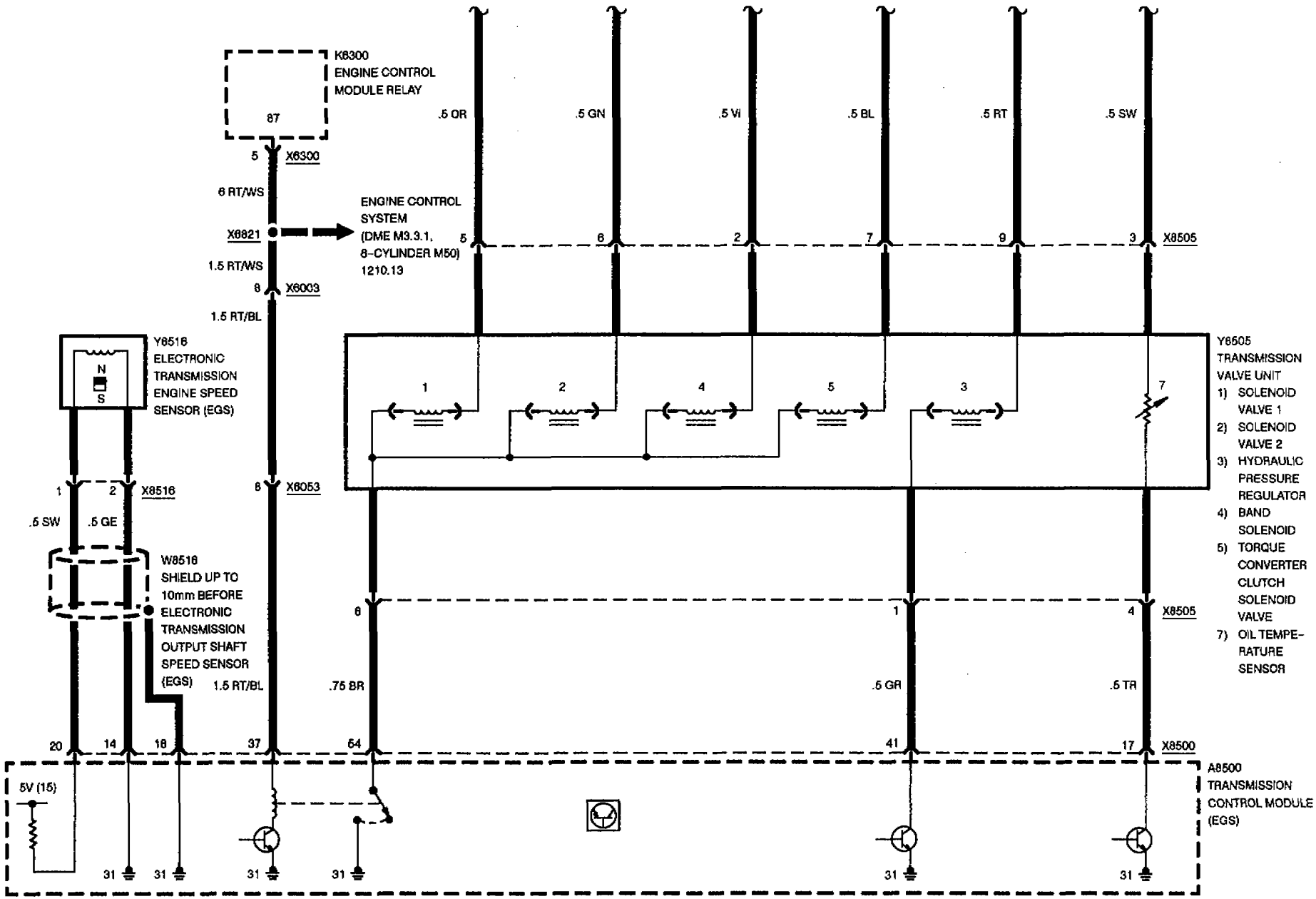
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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

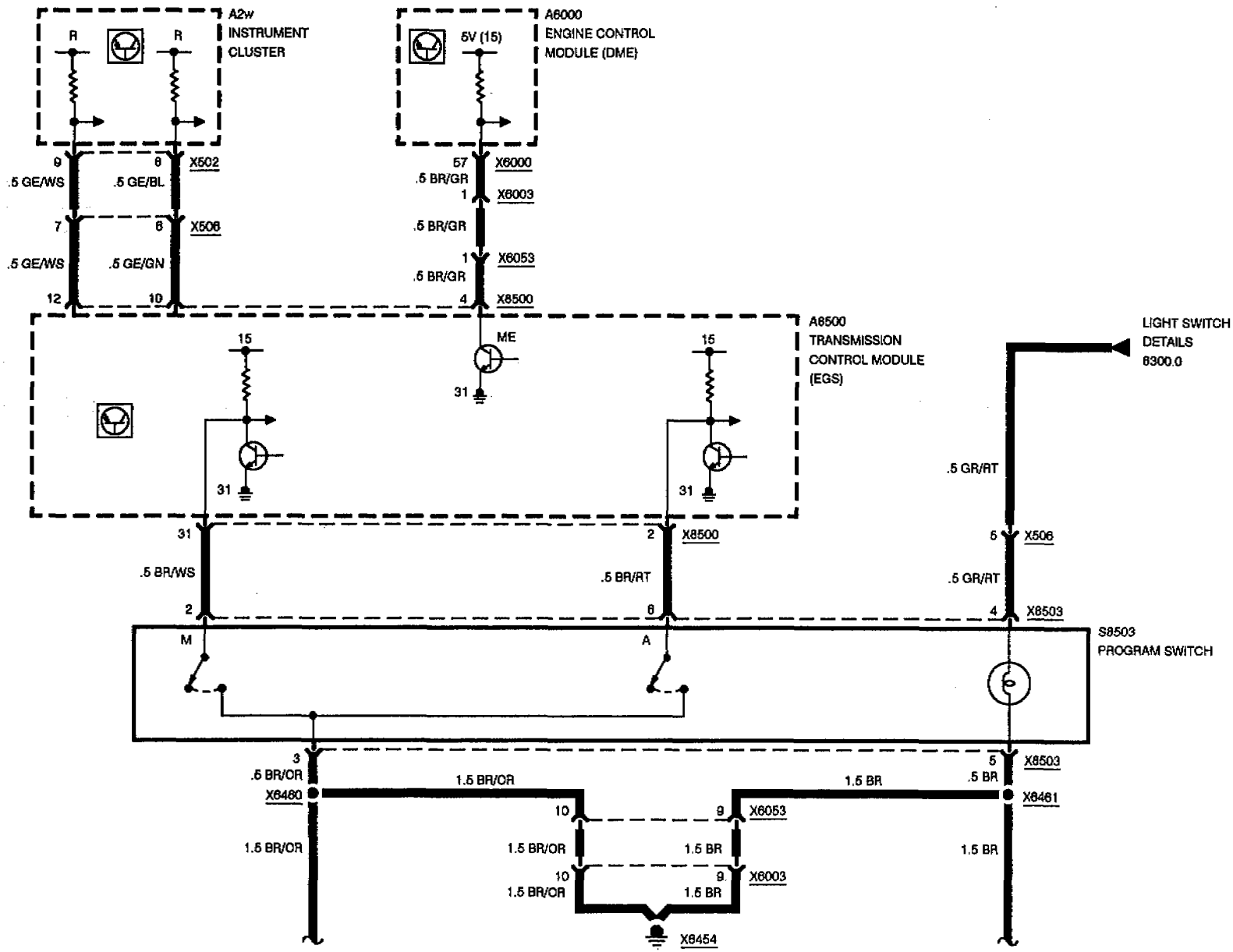


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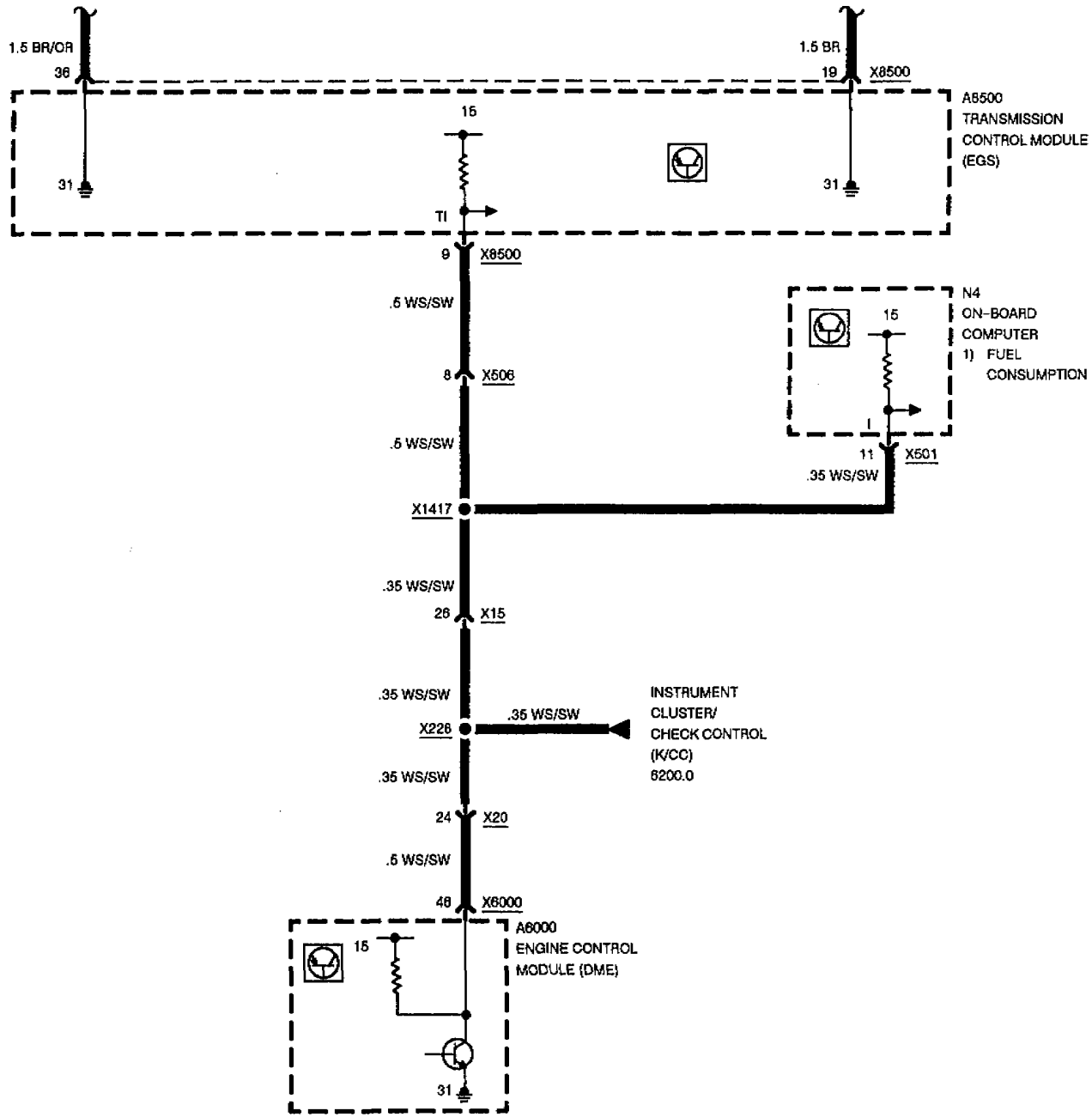

K6300
ENGINE CONTROL
MODULE RELAY
87
5
X6300
6 RT/WS
X6821
1.5 RT/WS
8
X6003
1.5 RT/BL
ENGINE CONTROL
SYSTEM
(DME M3.3.1,
8-CYLINDER M50)
1210.13
.5 OR
.5 GN
.5 Vi
.5 BL
.5 RT
.5 SW
5
6
2
7
9
3
X8505
Y8516
ELECTRONIC
TRANSMISSION
ENGINE SPEED
SENSOR (EGS)
N
S
1
2
X8516
.5 SW
.5 GE
W8516
SHIELD UP TO
10mm BEFORE
ELECTRONIC
TRANSMISSION
OUTPUT SHAFT
SPEED SENSOR
(EGS)
1.5 RT/BL
8
X6053
.75 BR
Y8505
TRANSMISSION
VALVE UNIT
1) SOLENOID
VALVE 1
2) SOLENOID
VALVE 2
3) HYDRAULIC
PRESSURE
REGULATOR
4) BAND
SOLENOID
5) TORQUE
CONVERTER
CLUTCH
SOLENOID
VALVE
7) OIL TEMPE-
RATURE
SENSOR
1
2
4
5
3
7
6
1
4
X8505
.5 GR
.5 TR
20
14
18
37
54
41
17
X8500
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
5V (15)
31
31
31
31
31
31

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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



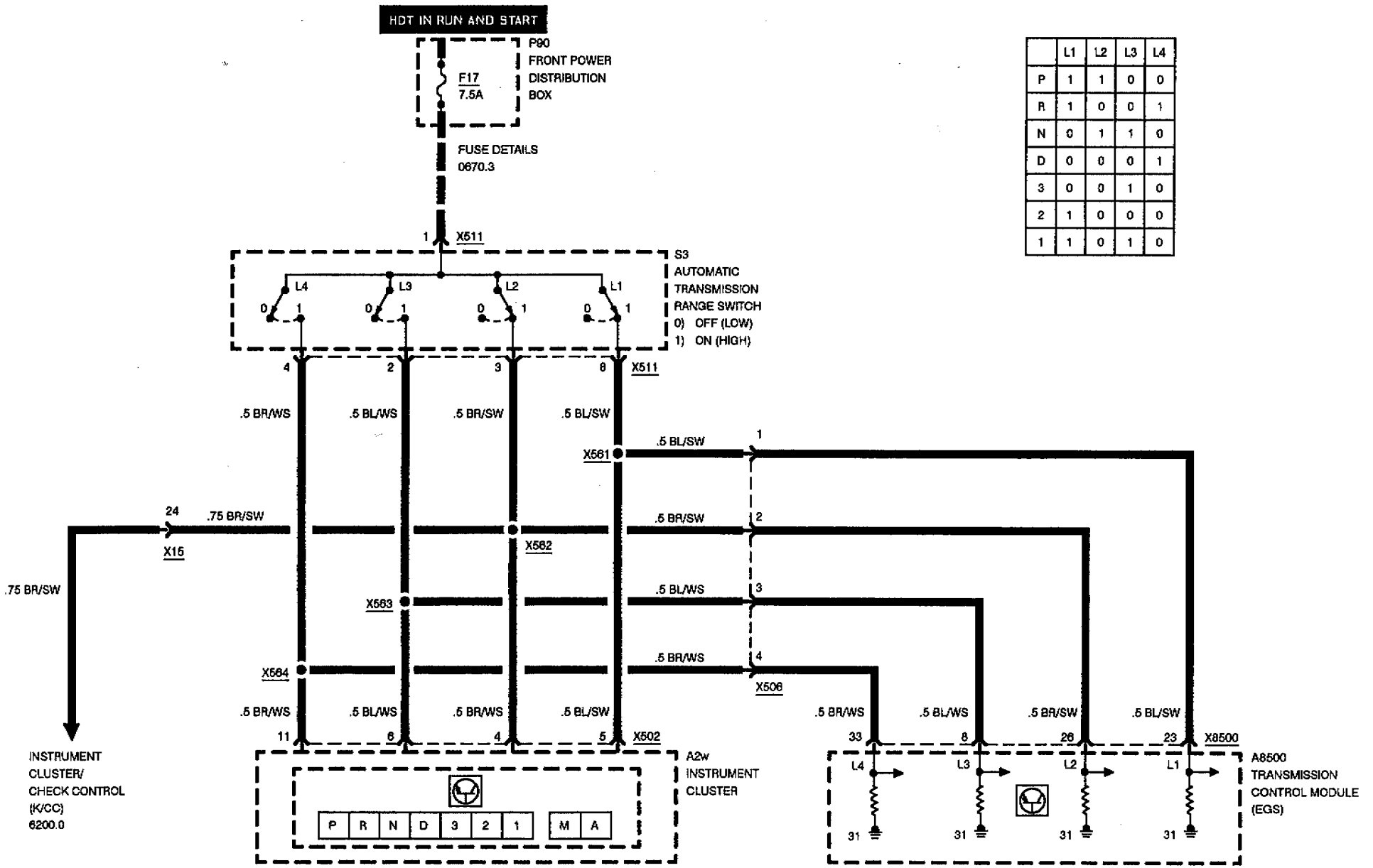
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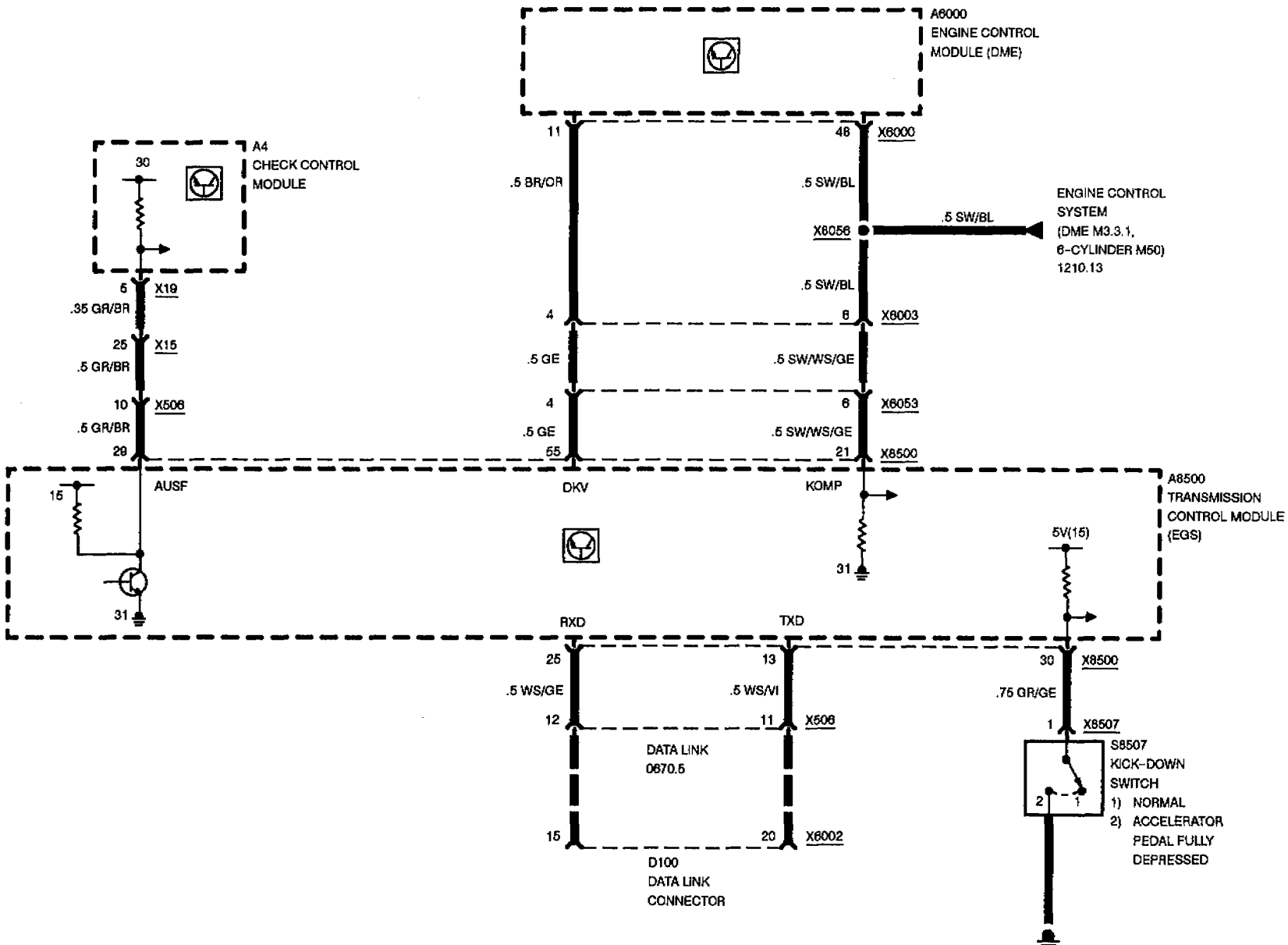
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

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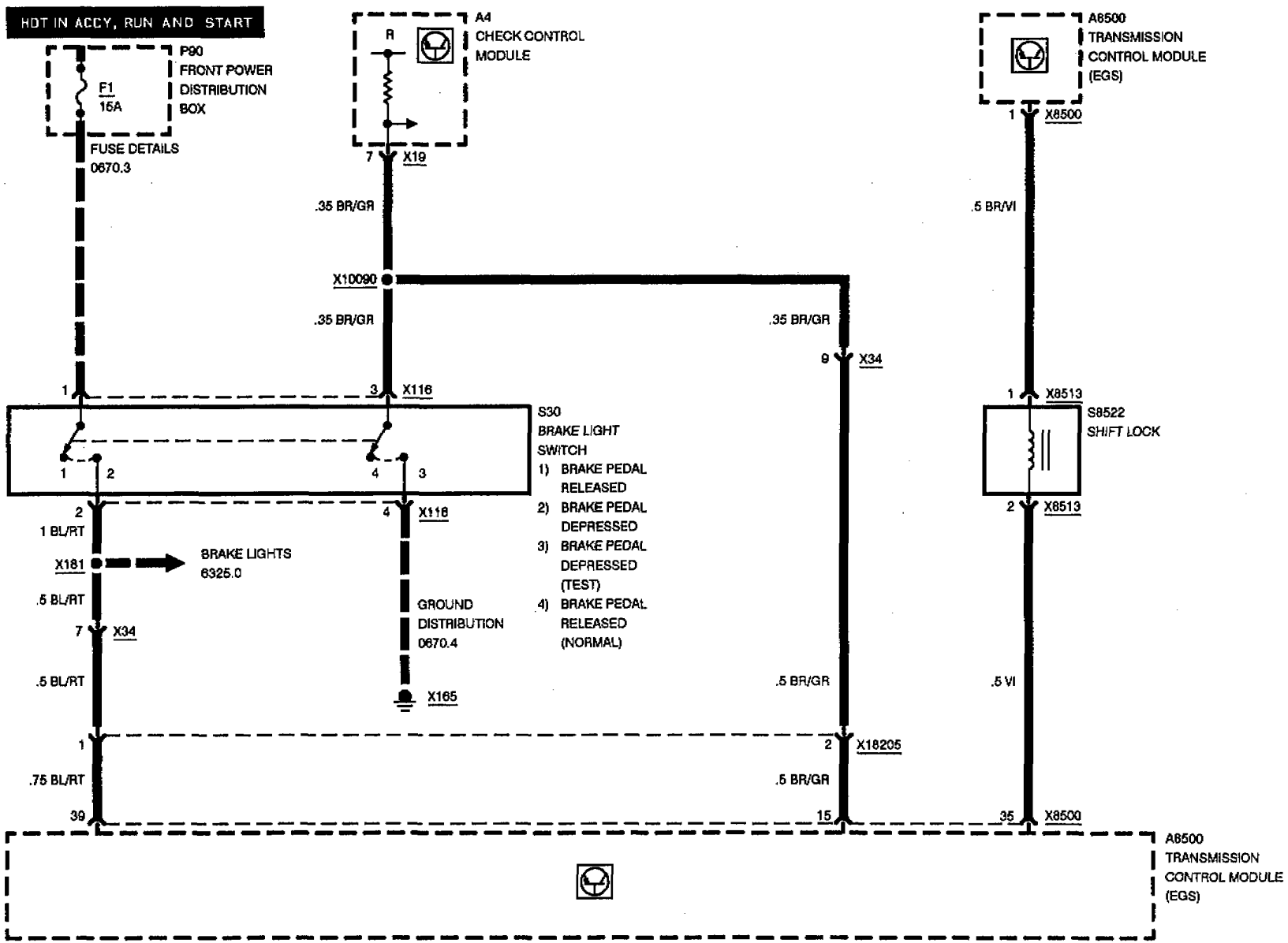
	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



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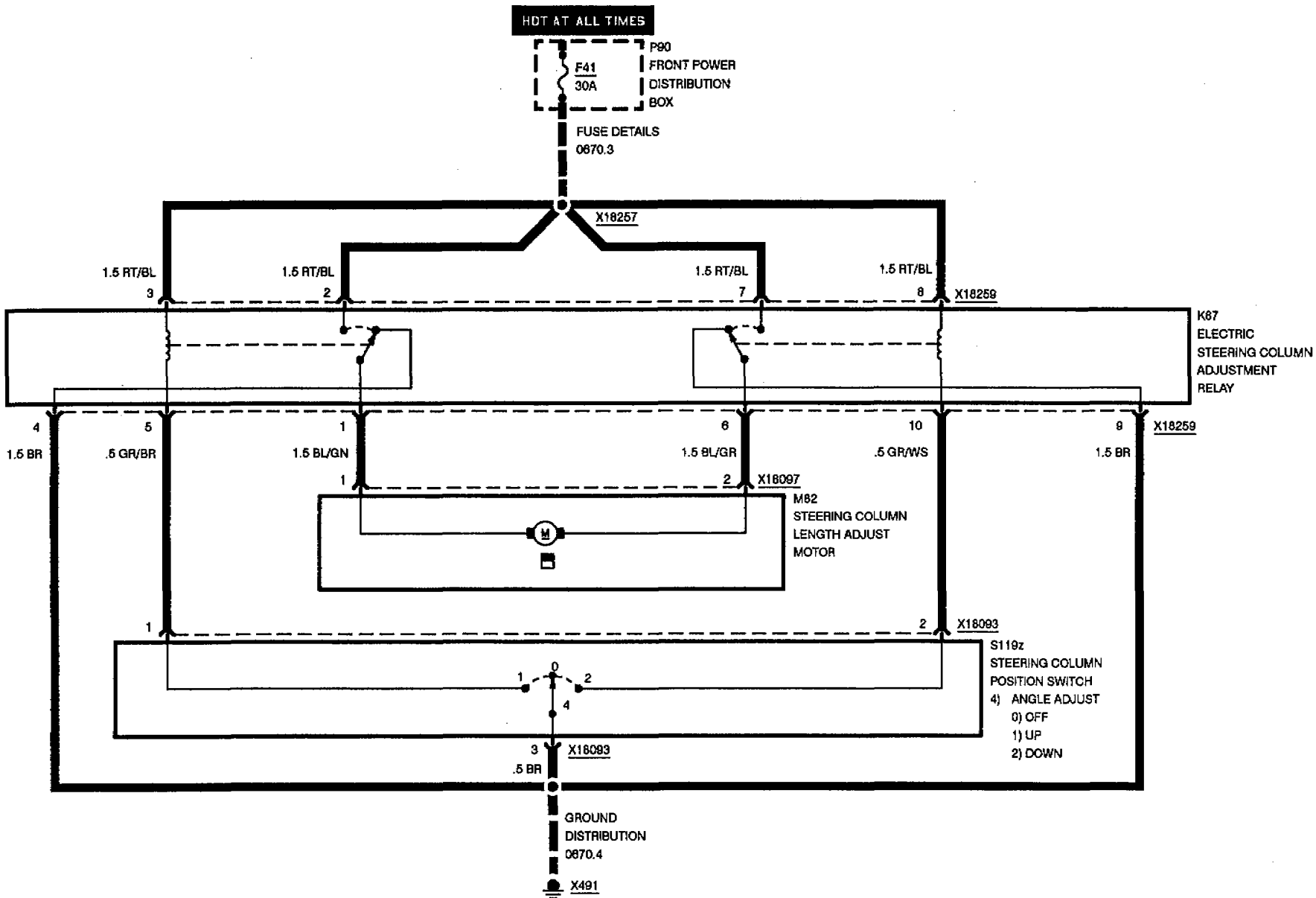
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



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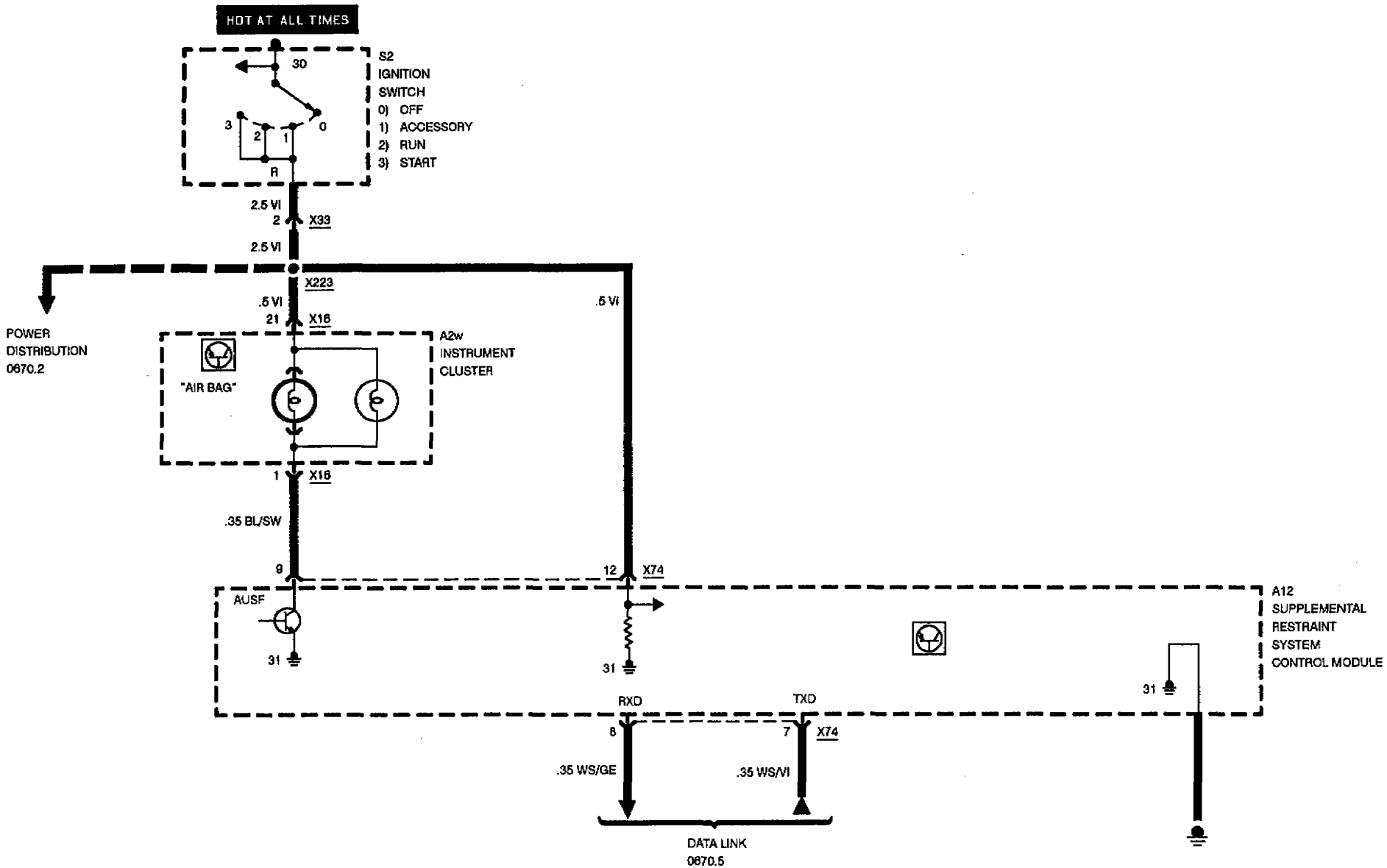
ELECTRIC STEERING COLUMN ADJUSTMENT



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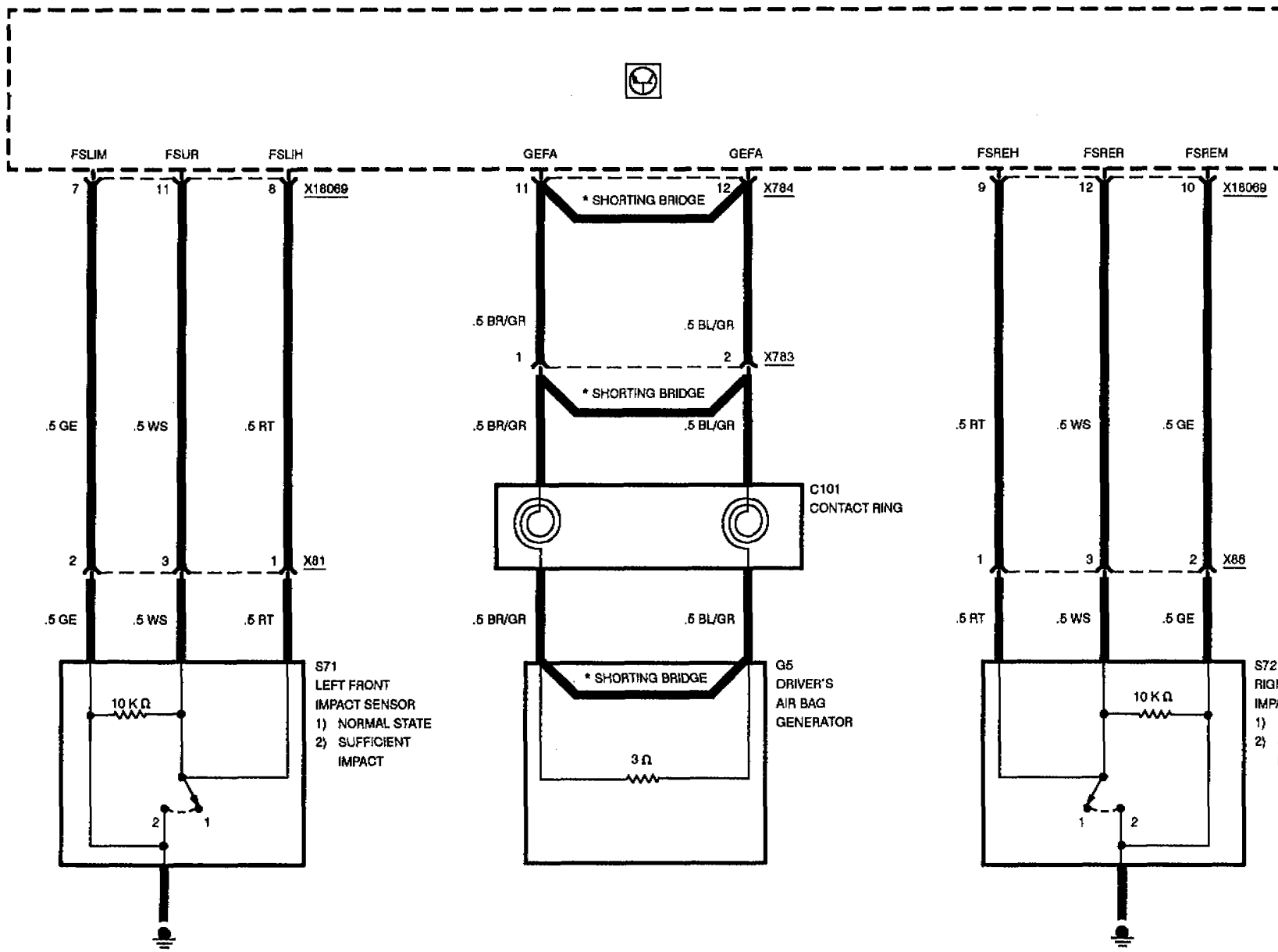
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SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



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SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

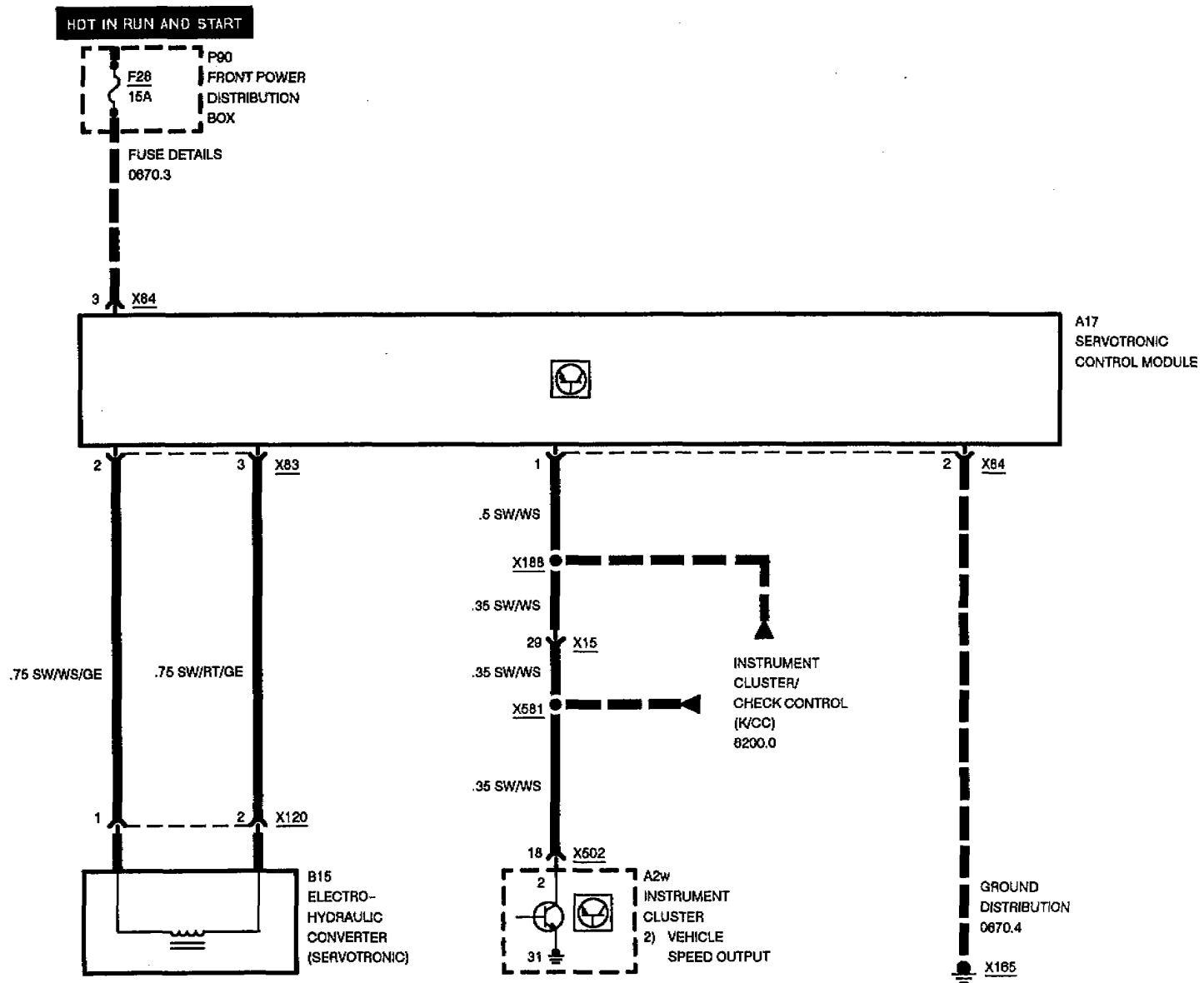


* THE DRIVER'S AIR BAG GENERATOR IS FITTED WITH SHORTING BRIDGES. THE BRIDGES SHORT THE GENERATOR LEADS TOGETHER TO PREVENT UNINTENTIONAL TRIGGERING OF THE IGNITER WHEN WORKING ON THE AIR BAG SYSTEM.

ONLY SPECIAL TOOLS 61 1260 AND 62 1260 (TEST LEADS) MAY BE USED TO CHECK THE WIRE LOOP AND IGNITER RESISTANCE.

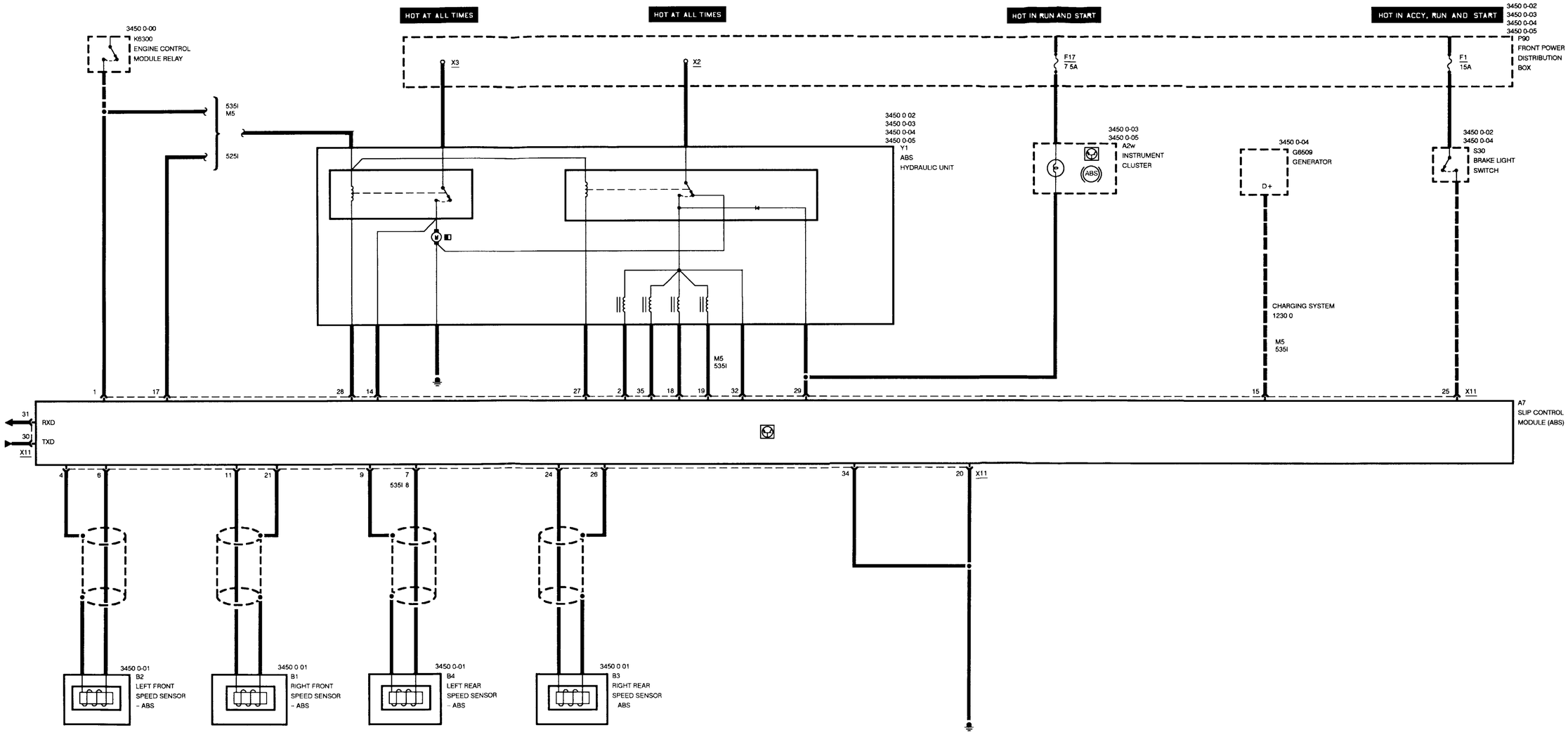
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POWER ASSIST STEERING (SERVOTRONIC)

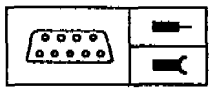


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12/93 3450 0 1993
12/93 3450 0 1993



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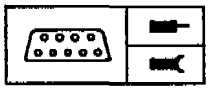
Pin Assignments

X11

Pin	Type	Description/Function	Connection
1	E	Terminal 30 voltage supply	Engine control module relay
2	A	Left front solenoid control	ABS hydraulic unit
3		Not used	
4	E	Speed sensor ground, FL	ABS left front wheel speed sensor
5		Not used	
6	E	Speed sensor signal, FL	ABS left front wheel speed sensor
7		525i: Not used	
	E	535i, M5: Speed sensor signal, RL	ABS left rear wheel speed sensor
8	E	525i: Speed sensor signal, RL 535i, M5: Not used	ABS left rear wheel speed sensor
9	E	Speed sensor ground, RL	ABS left rear wheel speed sensor
10		Not used	
11	E	Speed sensor signal, FR	ABS right front wheel speed sensor
12		Not used	
13		Not used	
14	E	Pump relay monitor	ABS hydraulic unit
15		525i: Not used	
	E	535i, M5: Battery voltage	Generator
16		Not used	
17	A	525i: Valve and pump relay signal 535i, M5: Not used	ABS hydraulic unit
18	A	Left rear solenoid control	ABS hydraulic unit
19		525i: Not used	
	A	535i, M5: Right rear solenoid control	ABS hydraulic unit
20	M	Ground, control module	Ground point
21	E	Speed sensor ground, FR	ABS right front wheel speed sensor
22		Not used	
23		Not used	
24	E	Speed sensor signal, RR	ABS right rear wheel speed sensor
25	E	Brake pedal position	Brake light switch
26	E	Speed sensor ground, RR	ABS right rear wheel speed sensor

E = Input, A = Output, M = Ground

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Pin Assignments

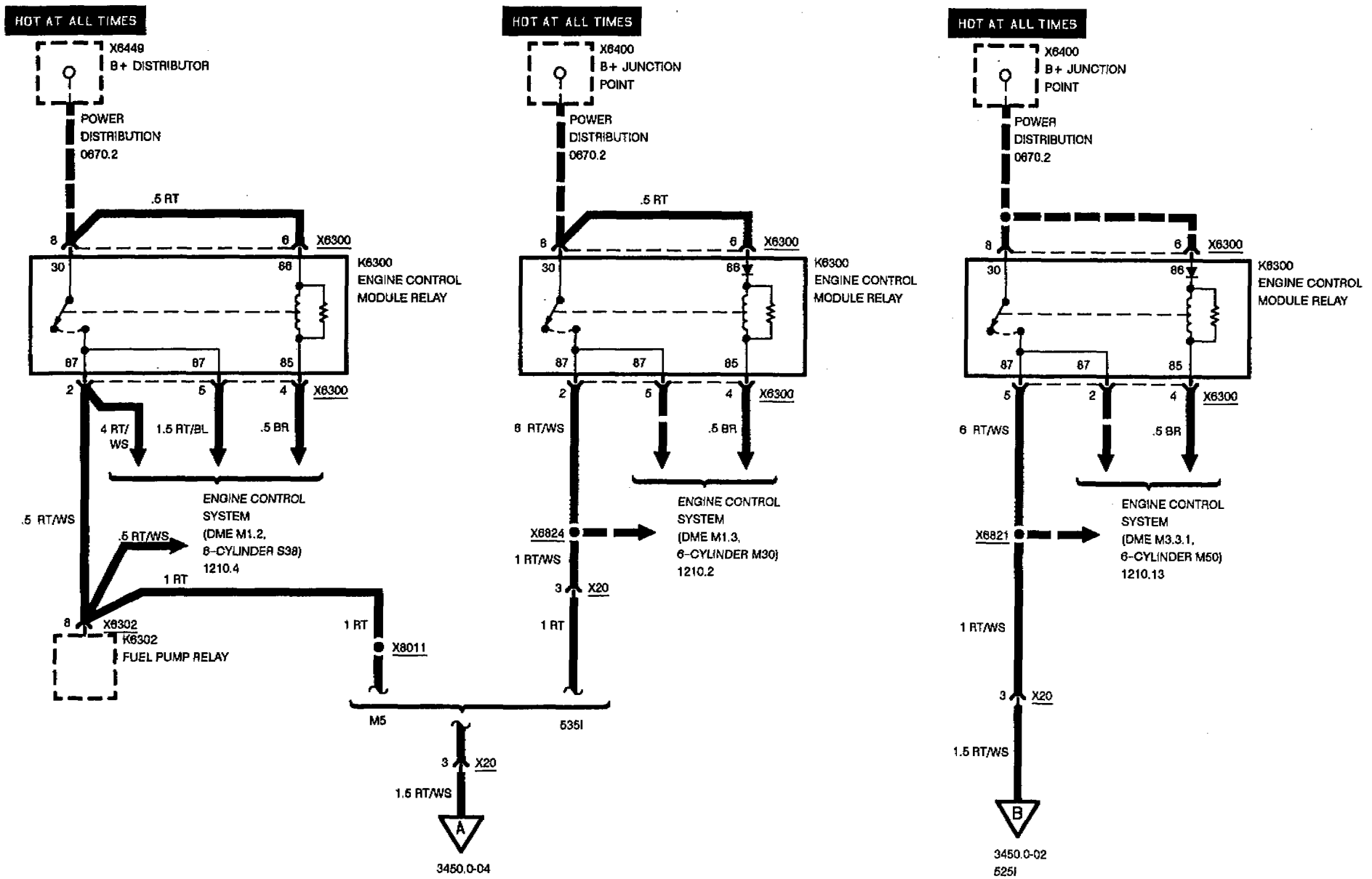
Pin	Type	Description/Function	Connection
27	A	Valve relay control	ABS hydraulic unit
28	A	Pump motor relay control	ABS hydraulic unit
29	A	ABS warning lamp control	Instrument cluster
30	A	RxD diagnostic data link	Data link connector
31	E/A	TxD diagnostic data link	Data link connector
32	E	Display, valve relay	ABS hydraulic unit
33		Not used	
34	M	Ground, control module	Ground point
35	A	Right front solenoid control	ABS hydraulic unit

E = Input, A = Output, M = Ground

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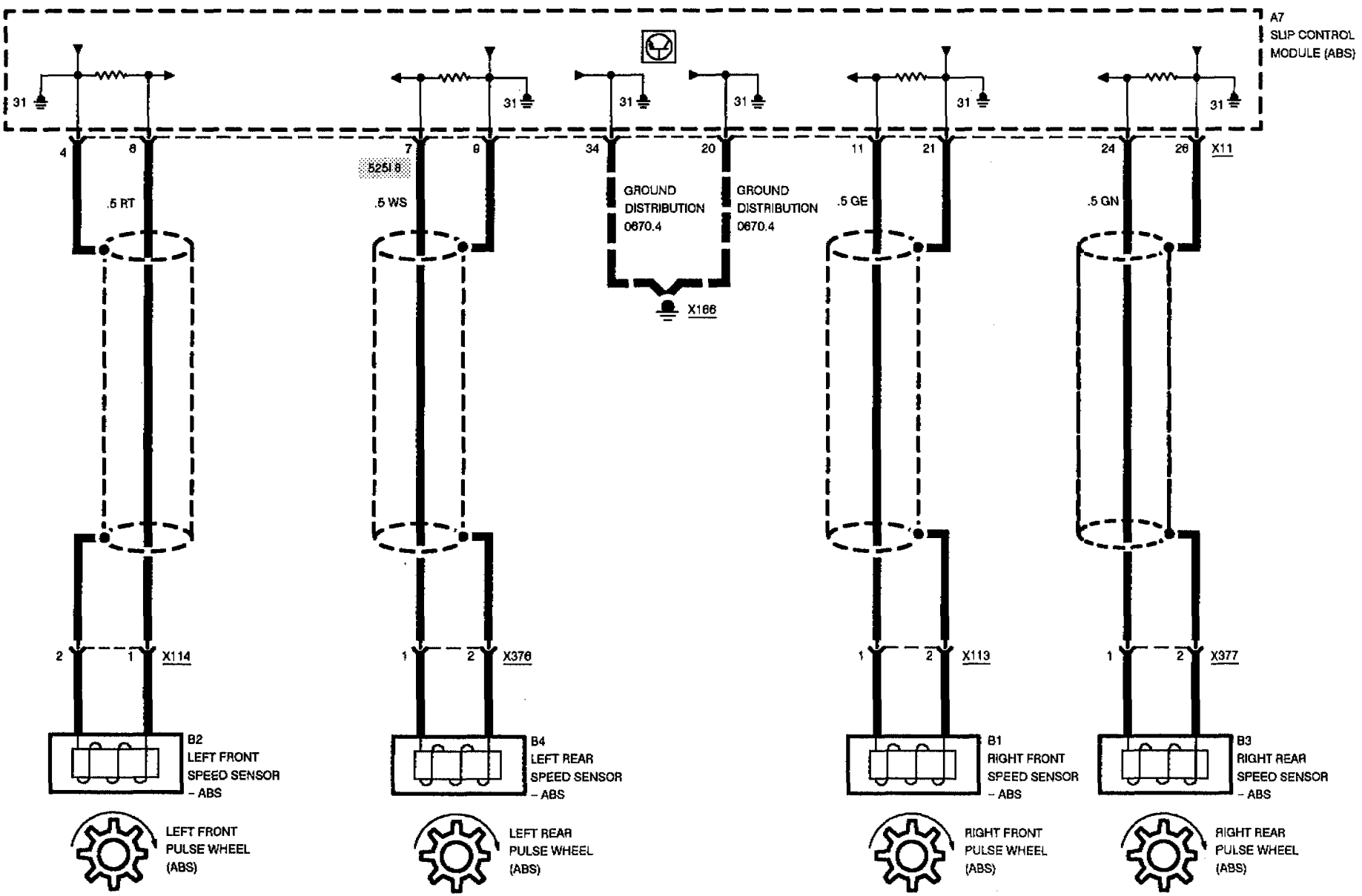
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SLIP CONTROL (ABS)

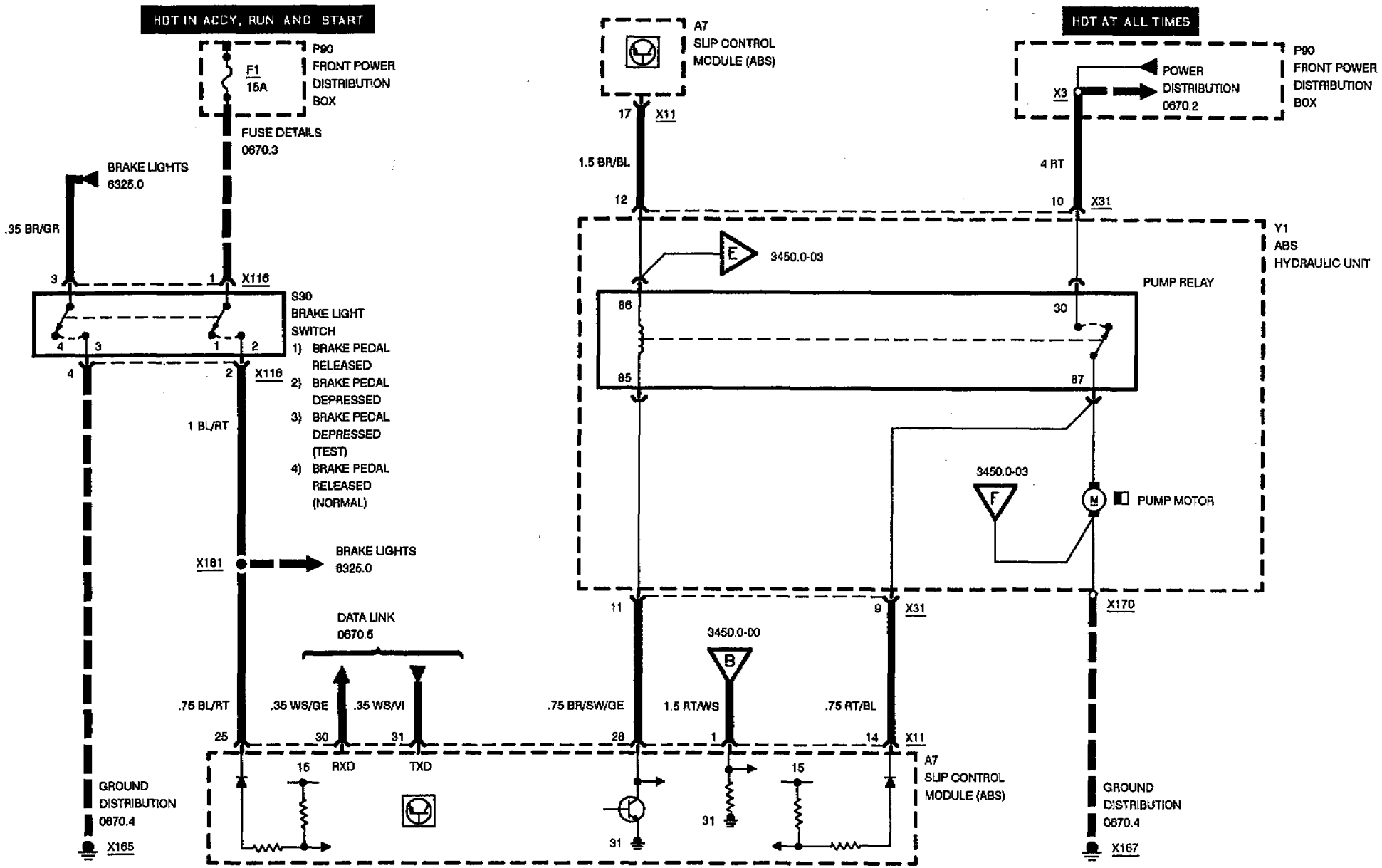


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SLIP CONTROL (ABS)



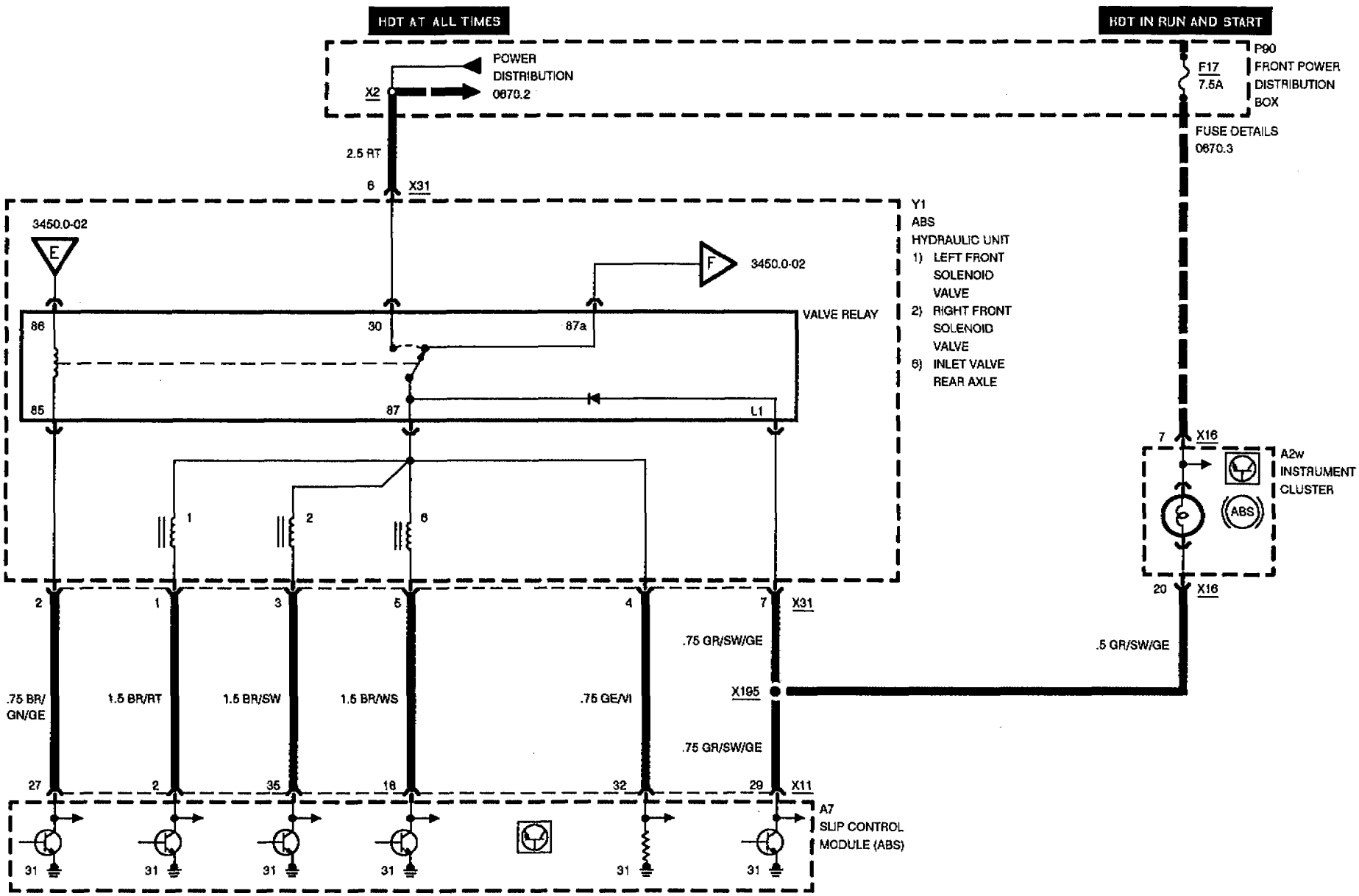
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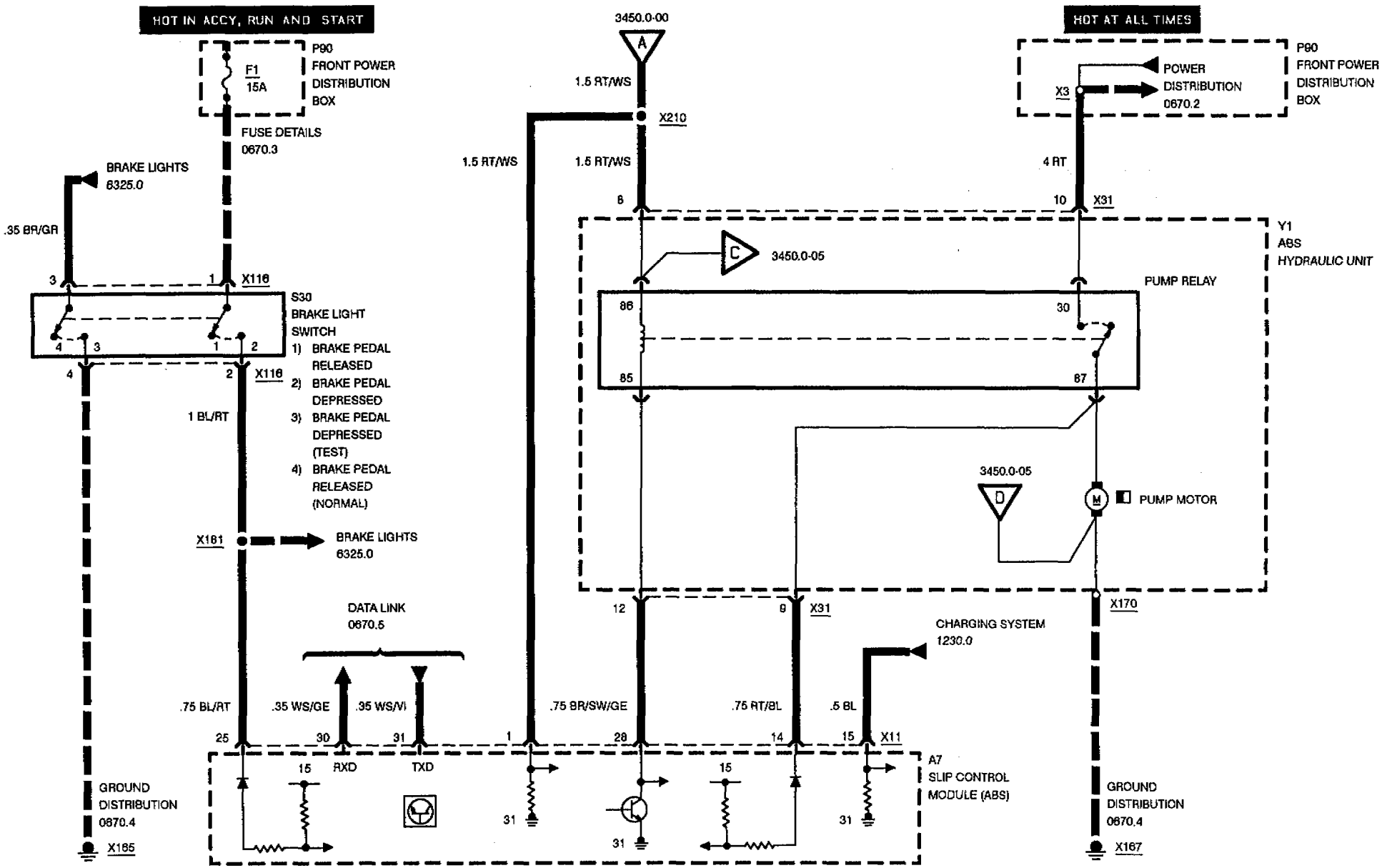
SLIP CONTROL (ABS)

525i/t



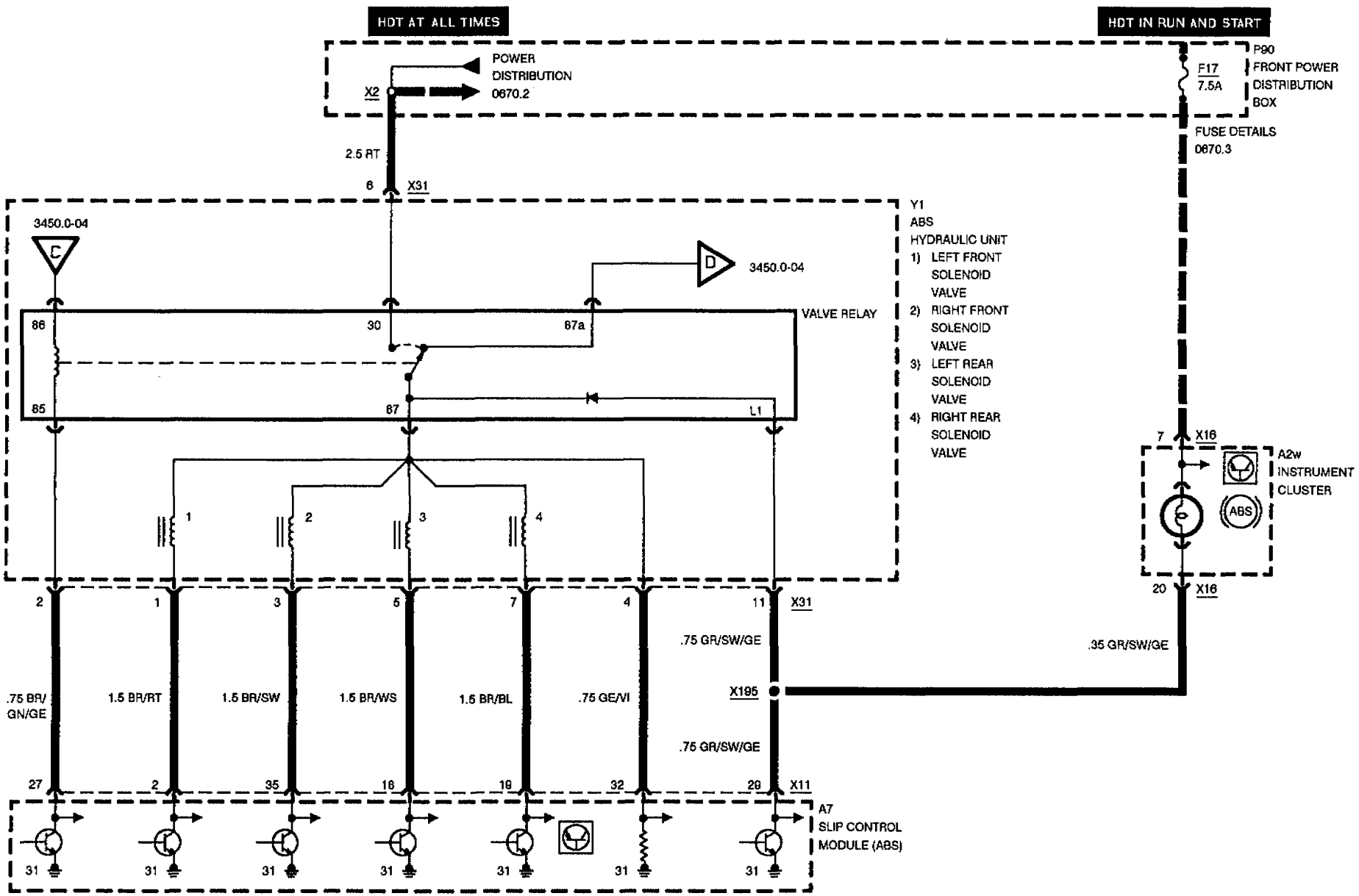
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SLIP CONTROL (ABS)



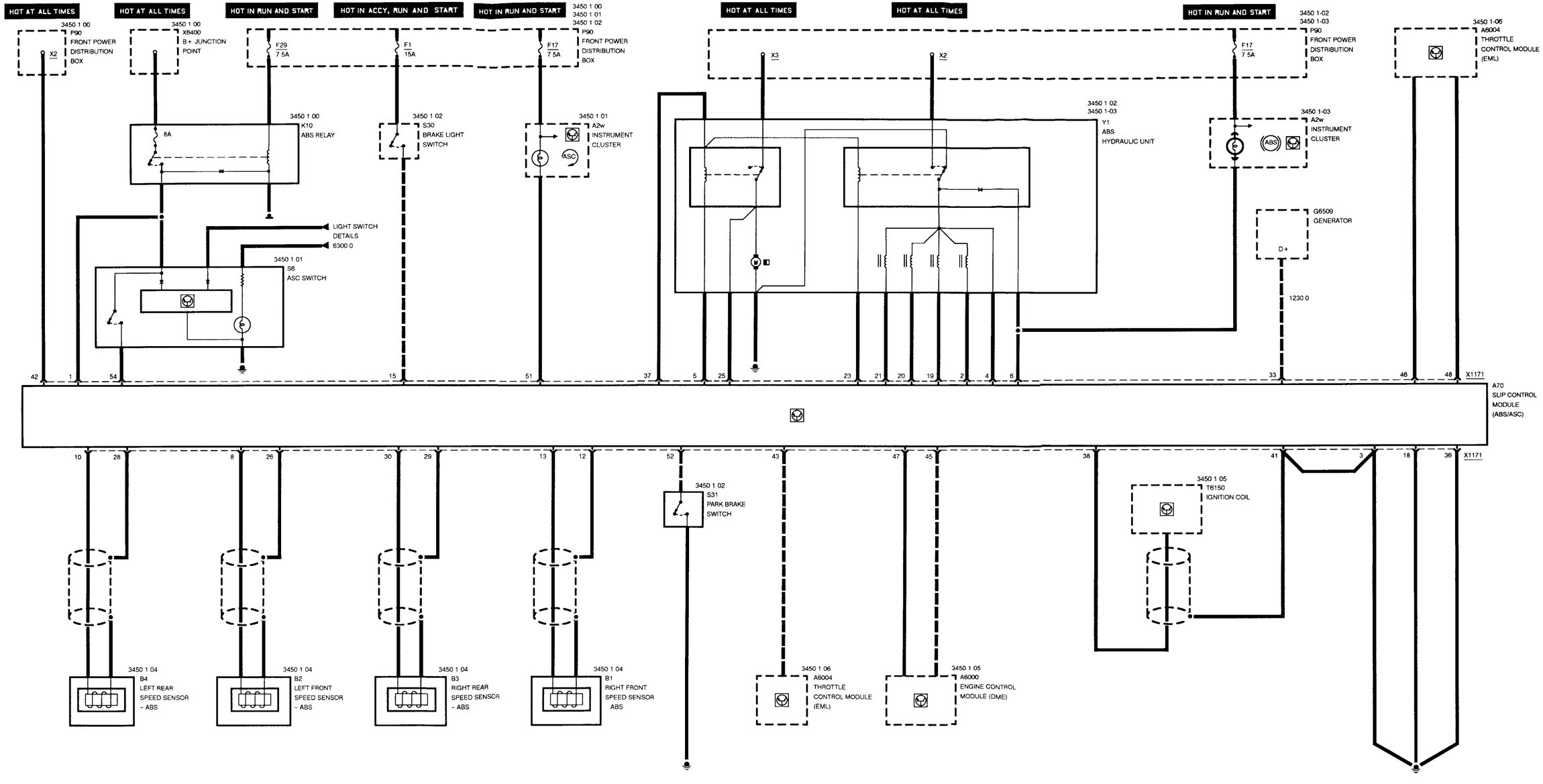
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SLIP CONTROL (ABS)

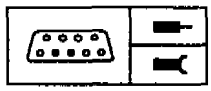


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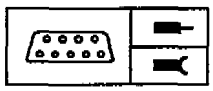
Pin Assignments

X1171

Pin	Type	Description/Function	Connection
1	E	Battery voltage	ABS relay
2	A	Right rear solenoid control	ABS hydraulic unit
3	M	Ground	Ground point and pin 41
4	E	Power	ABS hydraulic unit
5	E	Controlled ground for pump relay	ABS hydraulic unit
6	A	ABS warning lamp control	Instrument cluster
7		Not used	
8	E	Speed sensor signal, FL	ABS left front wheel speed sensor
9		Not used	
10	E	Speed sensor signal, RL	ABS left rear wheel speed sensor
11		Not used	
12	E	Speed sensor ground, FR	ABS right front wheel speed sensor
13	E	Speed sensor signal, FR	ABS right front wheel speed sensor
14		Not used	
15	E	Brake pedal status	Brake light switch
16		Not used	
17		Not used	
18	M	Ground	Ground point
19	A	Left rear solenoid control	ABS hydraulic unit
20	A	Right front solenoid control	ABS hydraulic unit
21	A	Left front solenoid control	ABS hydraulic unit
22		Not used	
23	E	Valve relay control	ABS hydraulic unit
24		Not used	
25	E	Pump relay monitor	ABS hydraulic unit
26	E	Speed sensor ground, FL	ABS left front wheel speed sensor
27		Not used	
28	E	Speed sensor ground, RL	ABS left rear wheel speed sensor
29	E	Speed sensor ground, RR	ABS right rear wheel speed sensor
30	E	Speed sensor signal, RR	ABS right rear wheel speed sensor

E = Input, A = Output, M = Ground

cardiagn.com



Pin Assignments

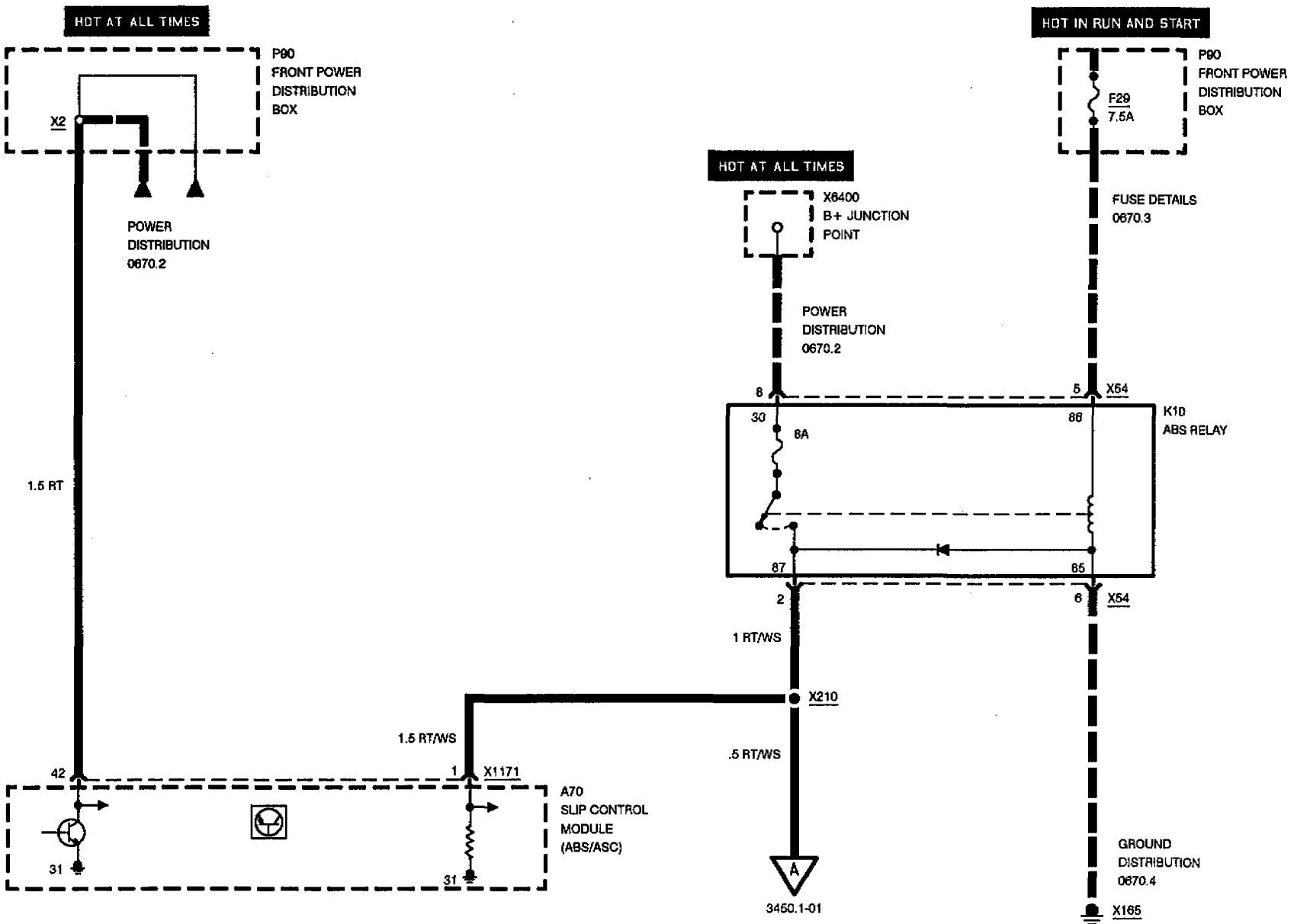
Pin	Type	Description/Function	Connection
31		Not used	
32		Not used	
33	E	Charging voltage	Generator
34		Not used	
35		Not used	
36	M	Ground	Ground point
37	A	Power signal for pump relay	ABS hydraulic unit
38	E	Ignition timing signal	Ignition coil
39		Not used	
40		Not used	
41	M	Ground	Shield ignition coil, pin 3
42	E	Battery voltage	Front power distribution box
43	A	EML-signal	Electronic throttle module (EML)
44		Not used	
45	E	Ignition cut-off signal	Engine control module (DME)
46	E	Throttle signal	Electronic throttle module (EML)
47	E	DME-signal	Engine control module (DME)
48	E	Throttle signal	Electronic throttle module (EML)
49		Not used	
50		Not used	
51	A	ASC indicator lamp control	Instrument cluster
52	E	Park brake signal	Park brake switch
53		Not used	
54	E	ASC switch signal	ASC switch
55		Not used	

E = Input, A = Output, M = Ground

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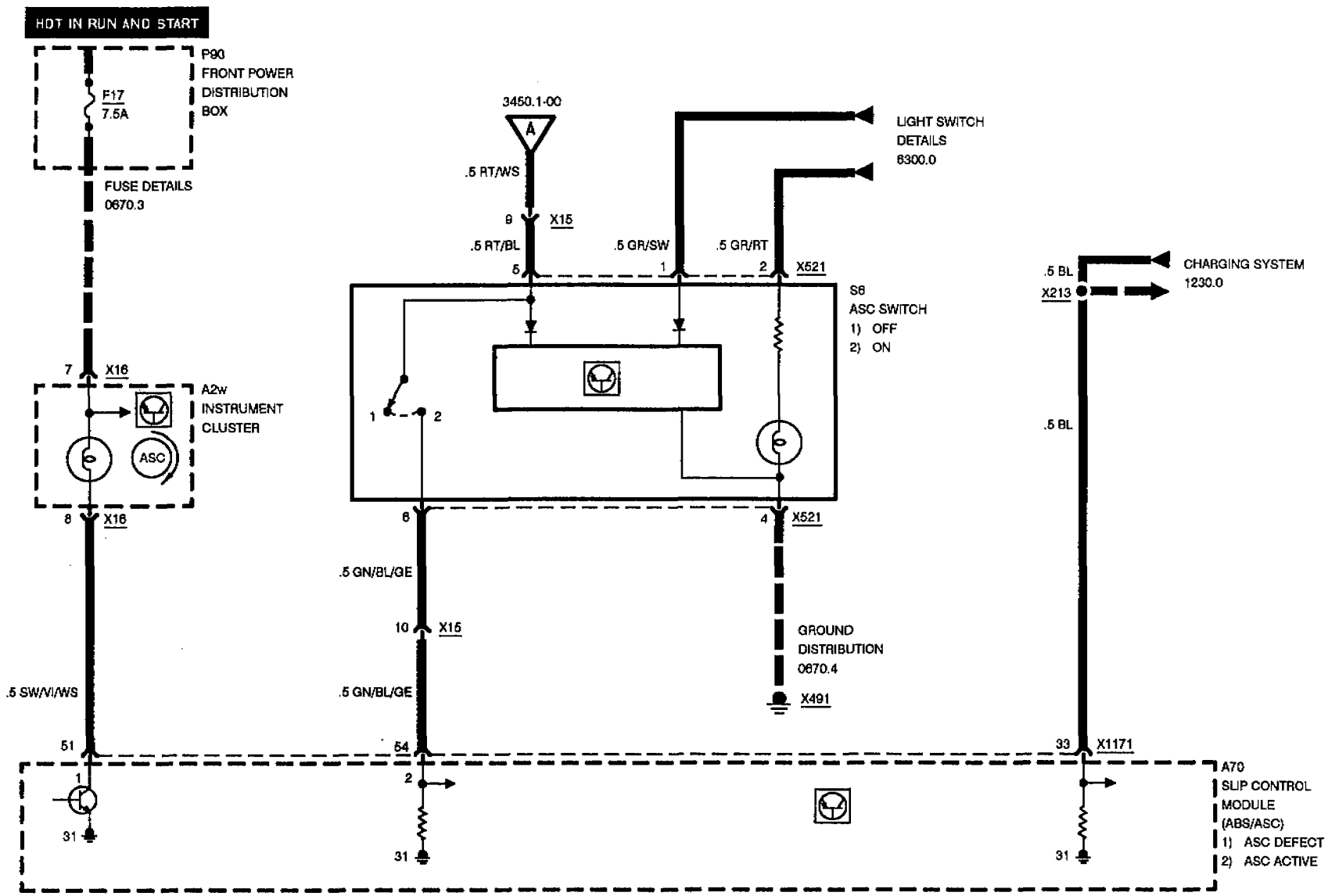
cardiagn.com

SLIP CONTROL (ABS/ASC)



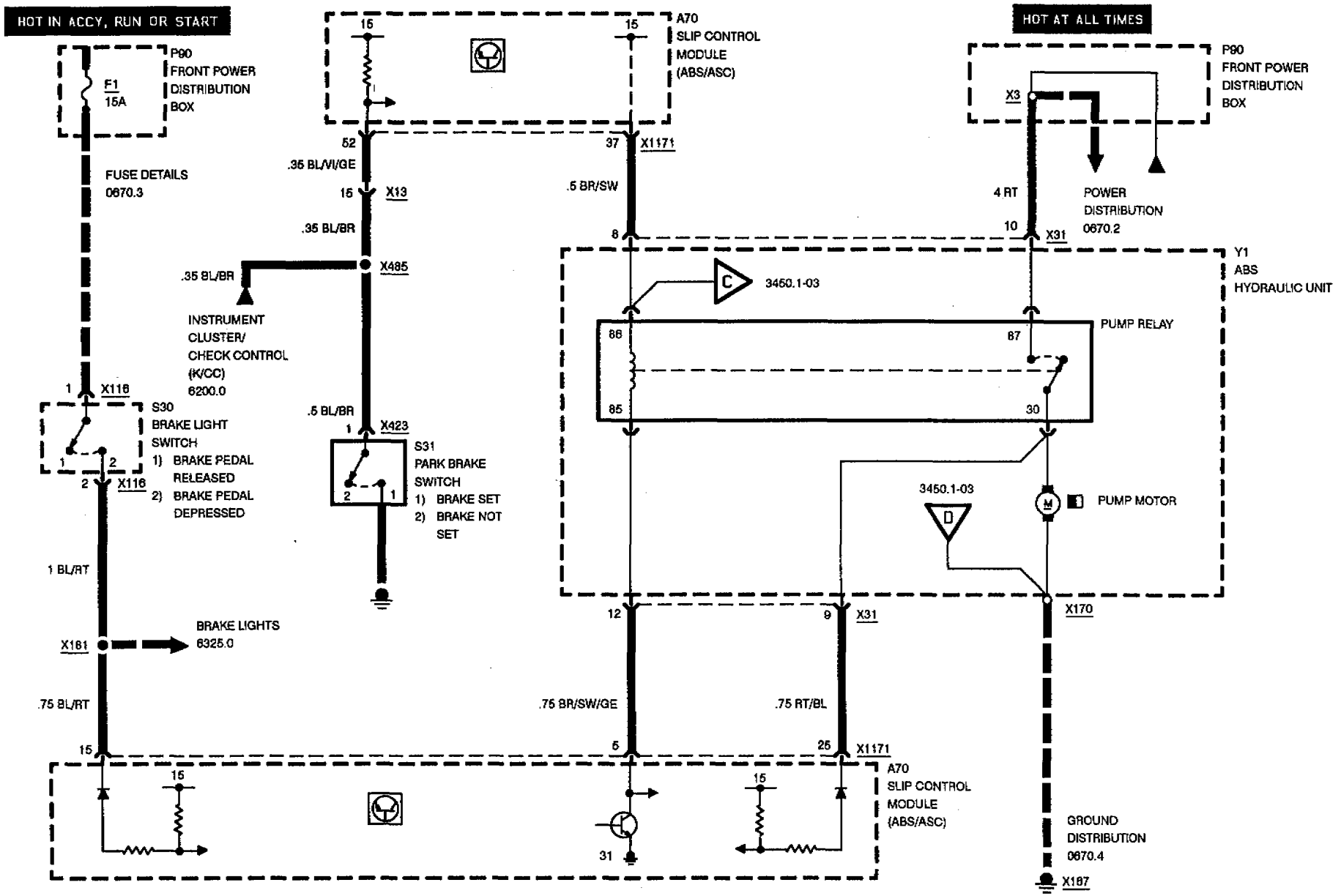
cardiagn.com

SLIP CONTROL (ABS/ASC)



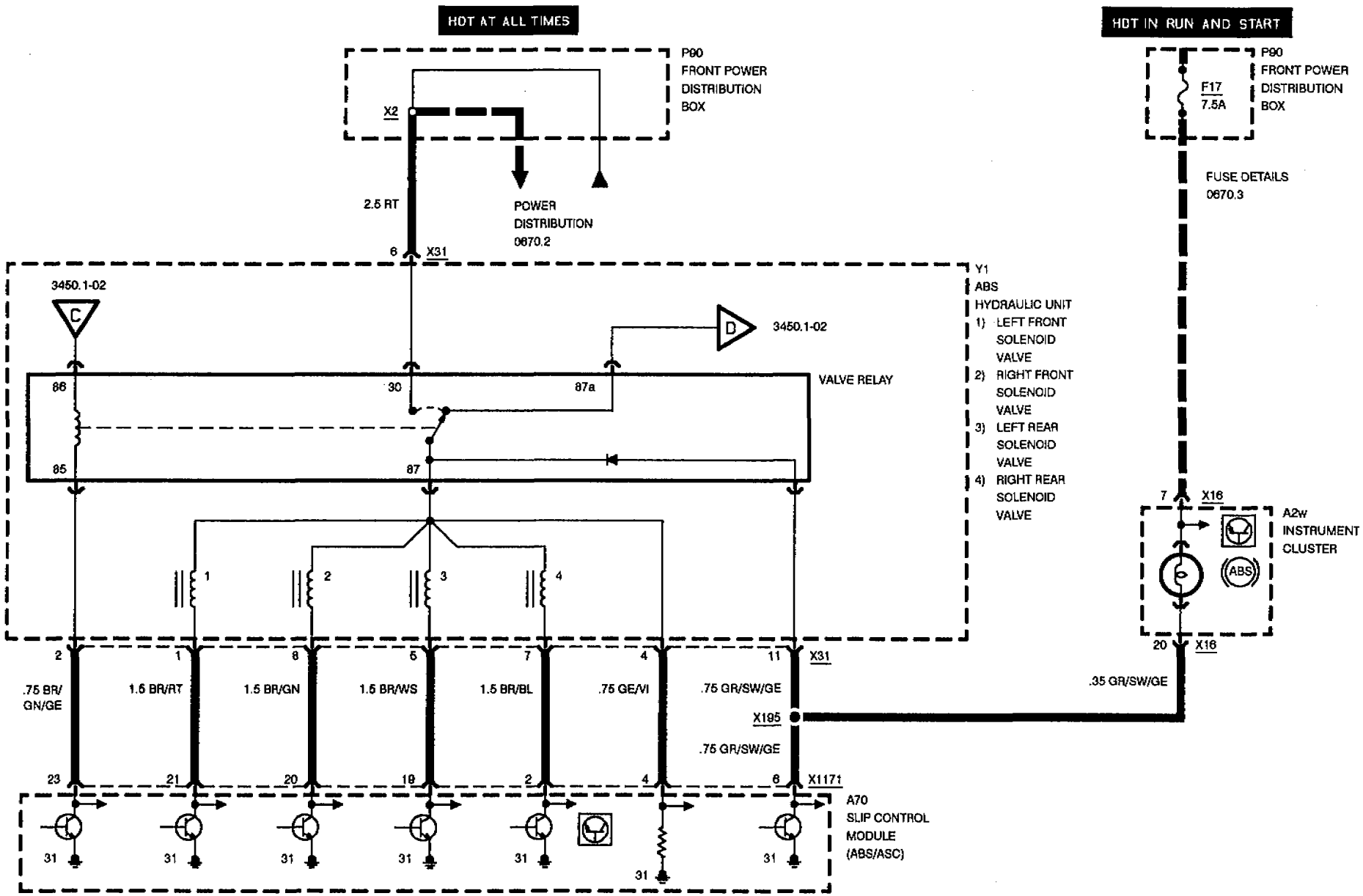
carDiagn.com

SLIP CONTROL (ABS/ASC)



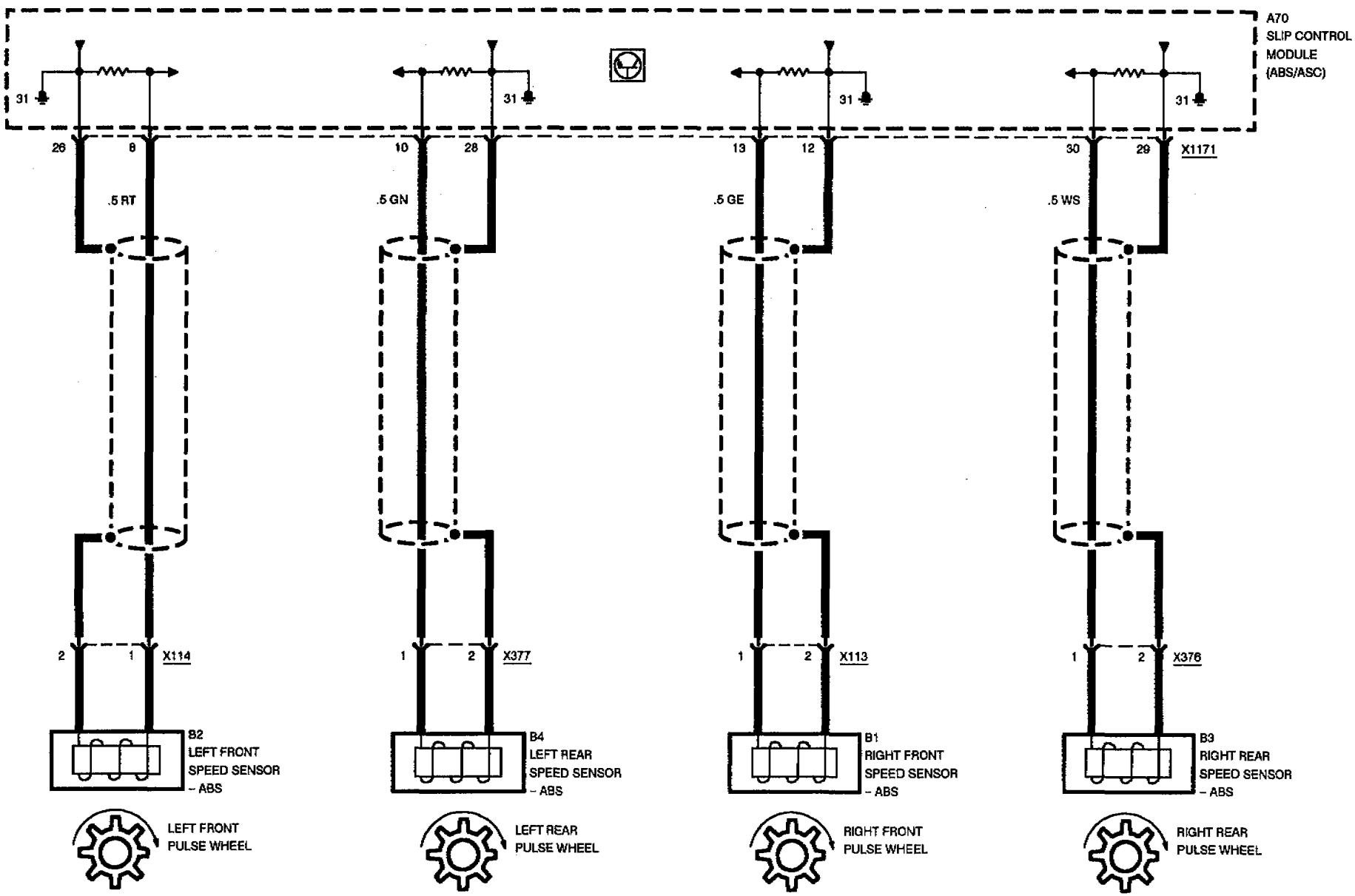
cardiagn.com

SLIP CONTROL (ABS/ASC)



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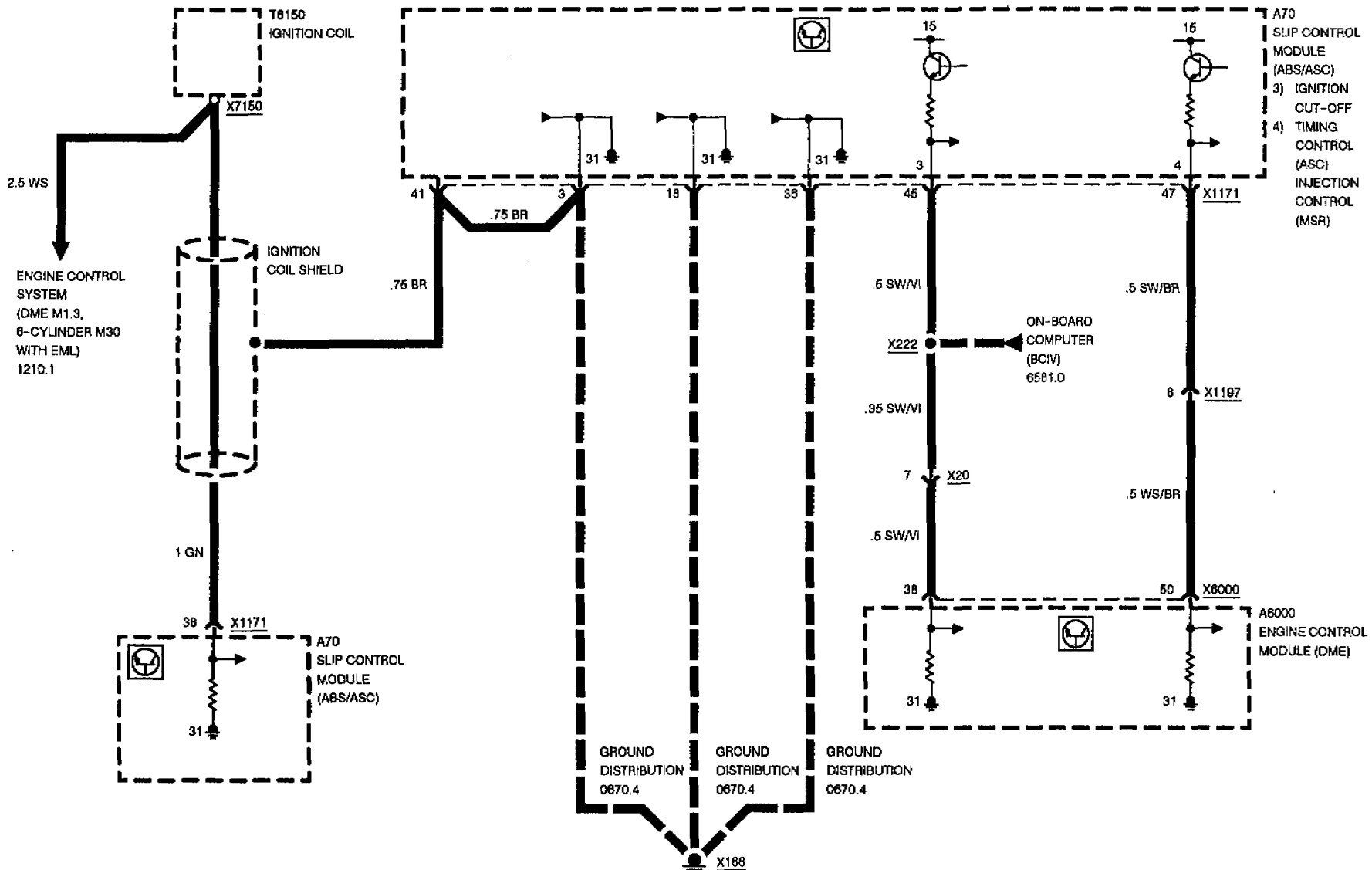
SLIP CONTROL (ABS/ASC)



carplan.com

SLIP CONTROL (ABS/ASC)

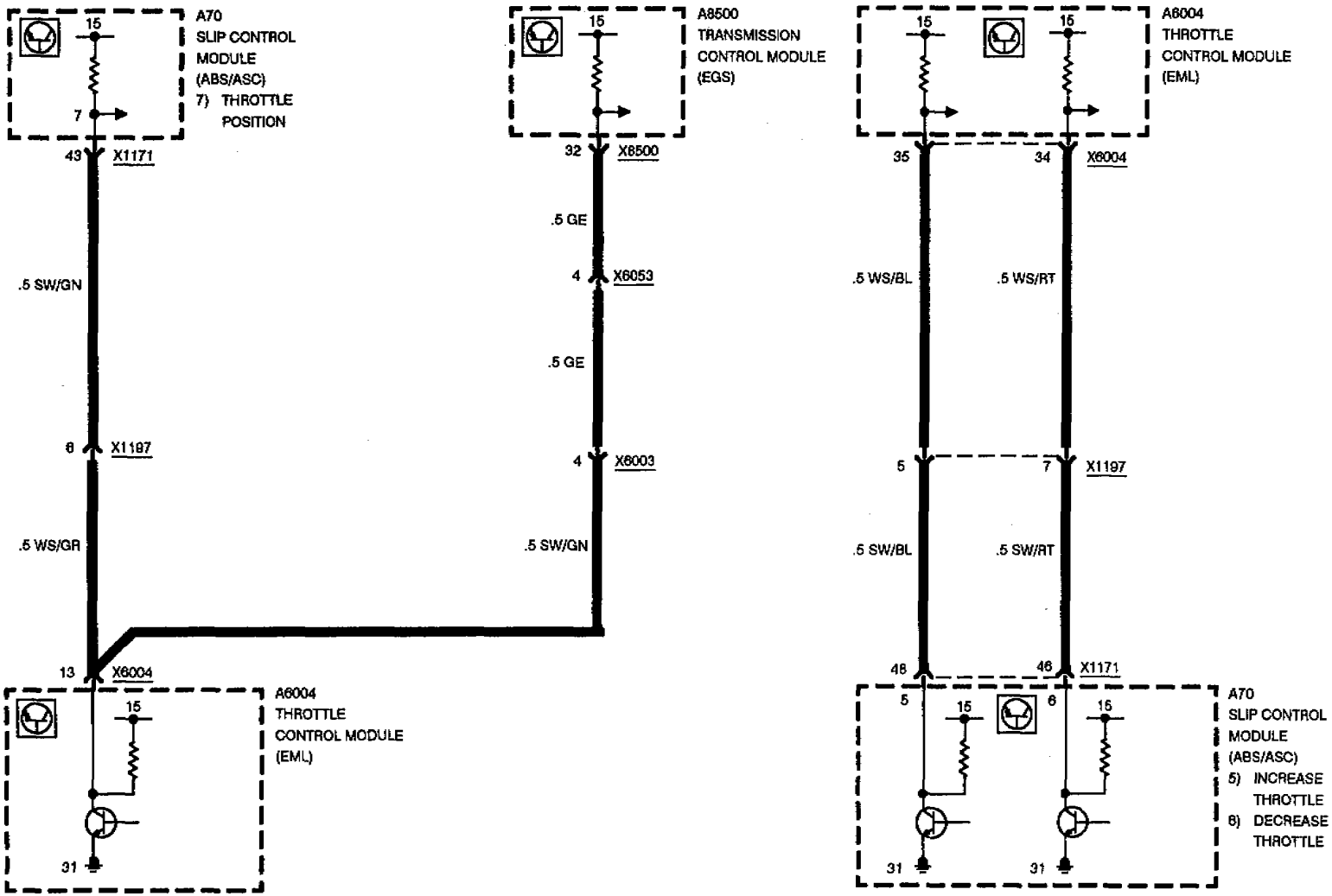
ENGINE CONTROL (DME) INTERFACE



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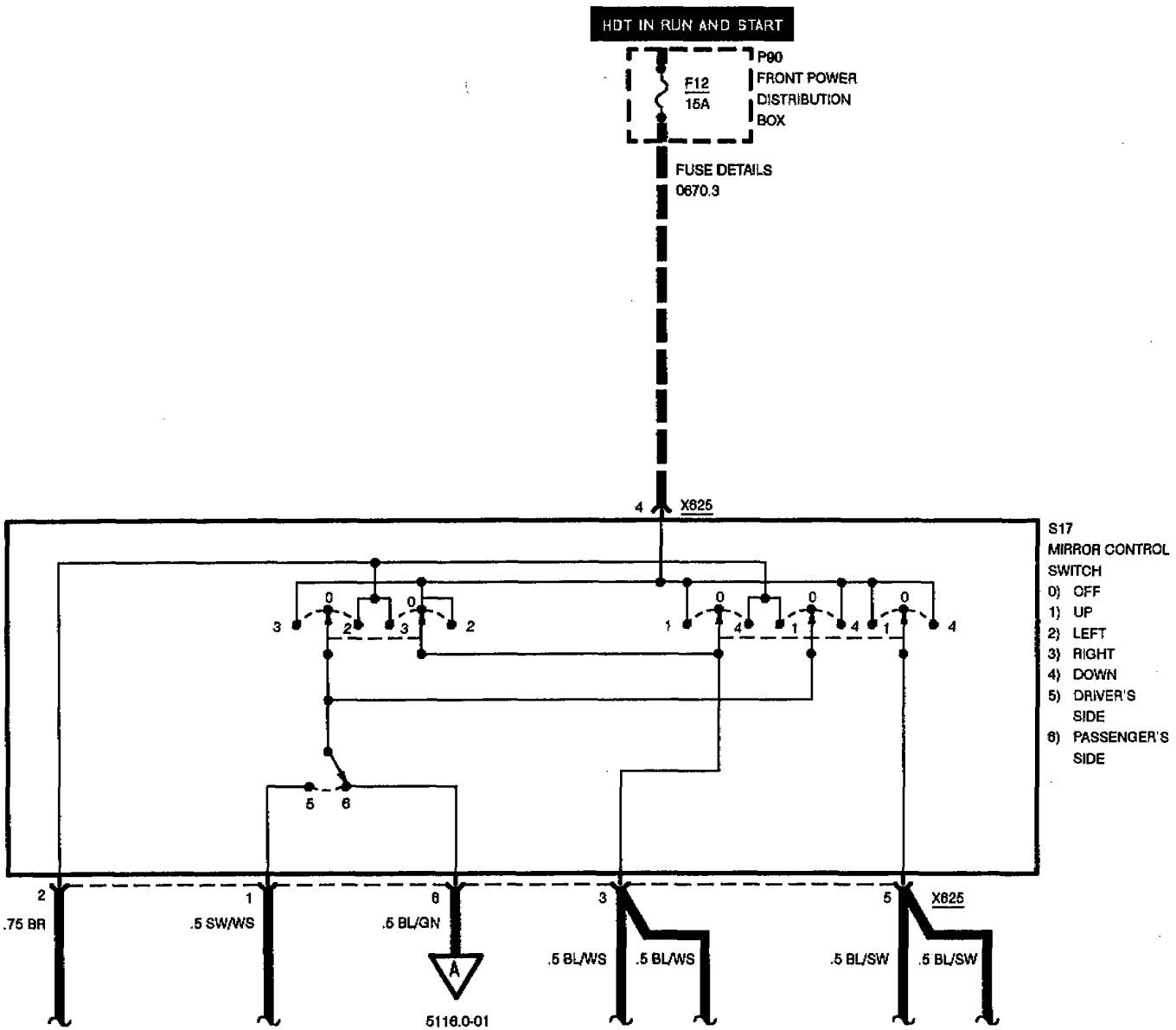
SLIP CONTROL (ABS/ASC)

EML INTERFACE

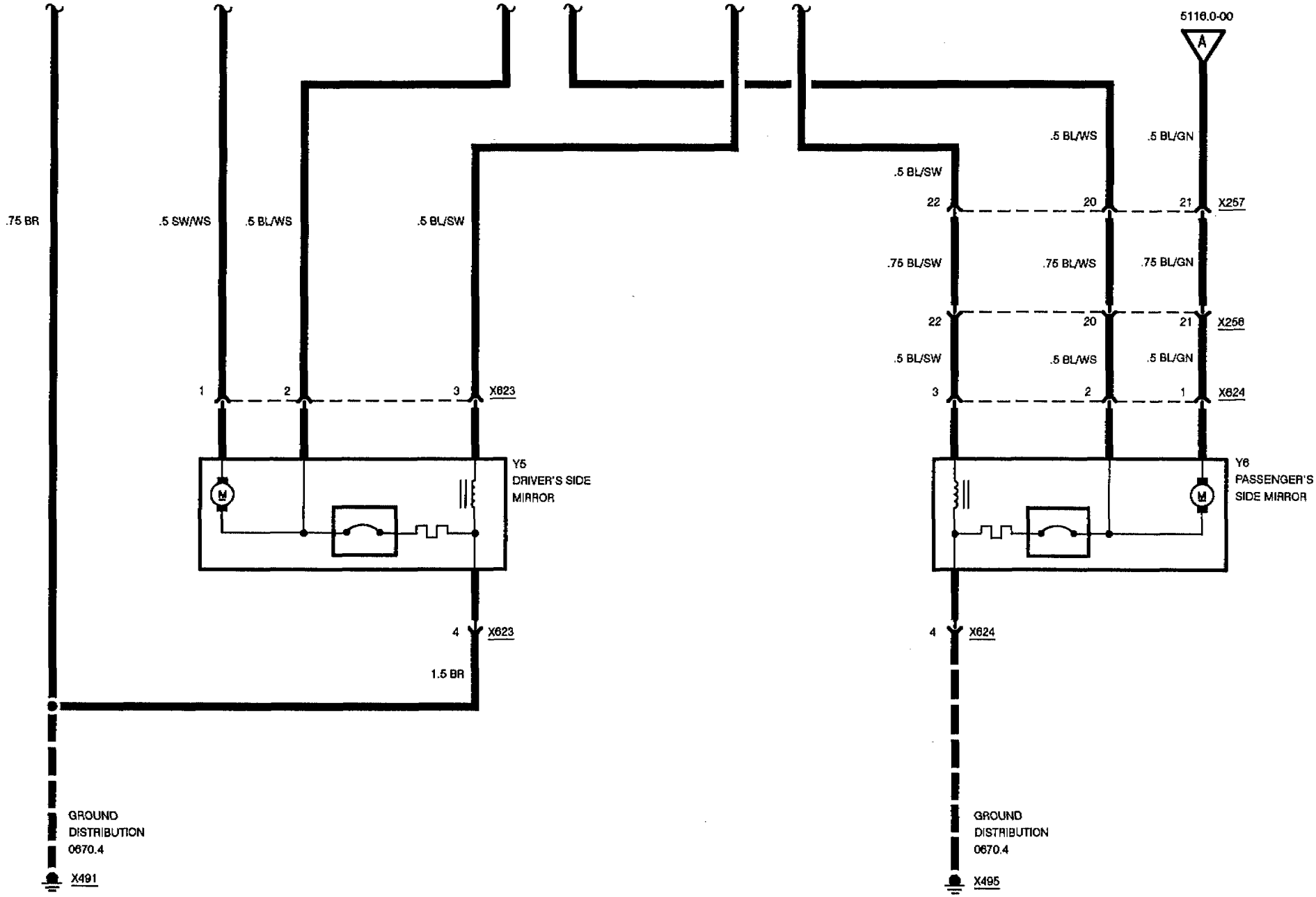


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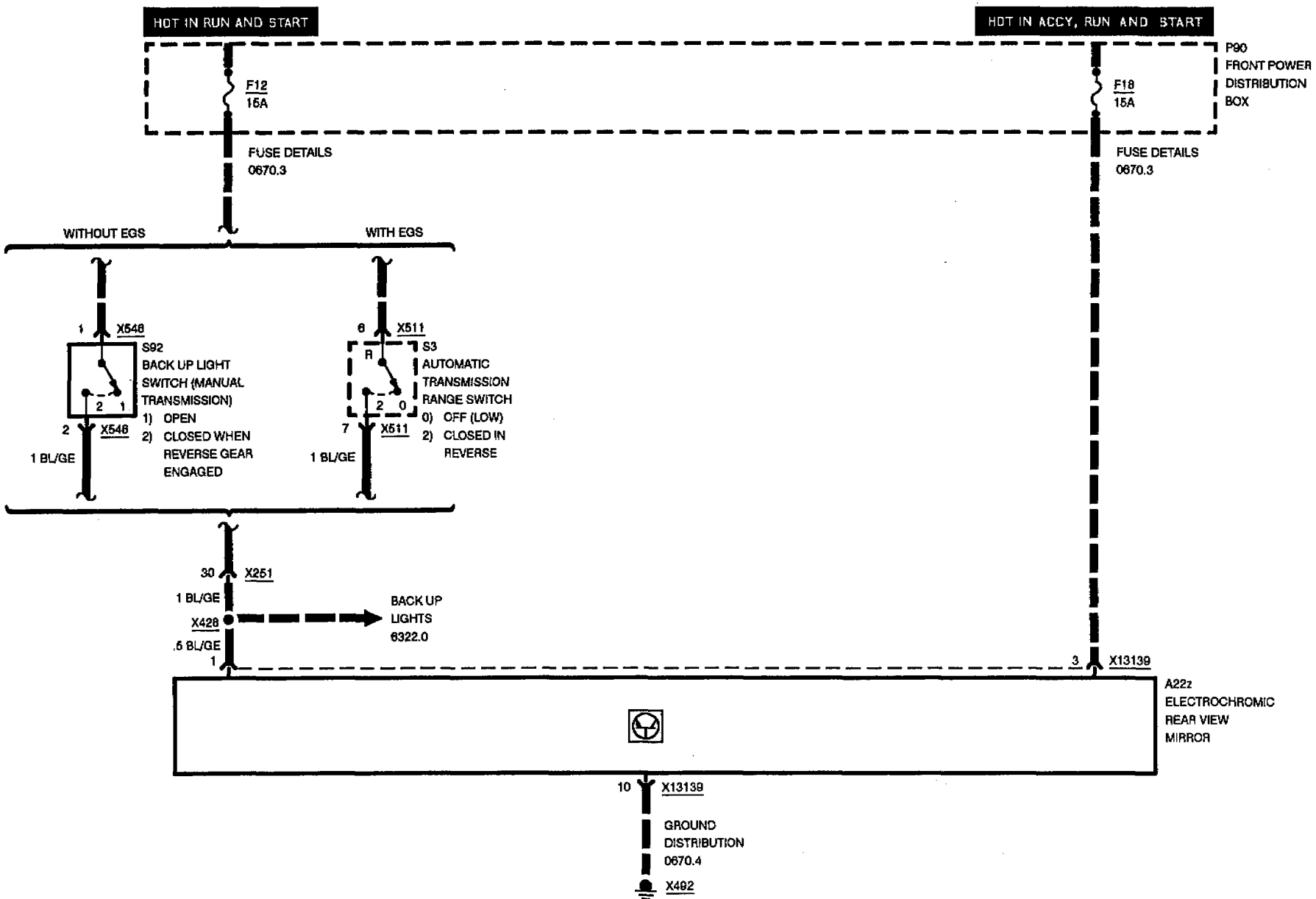
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POWER MIRRORS

INSIDE MIRRORS

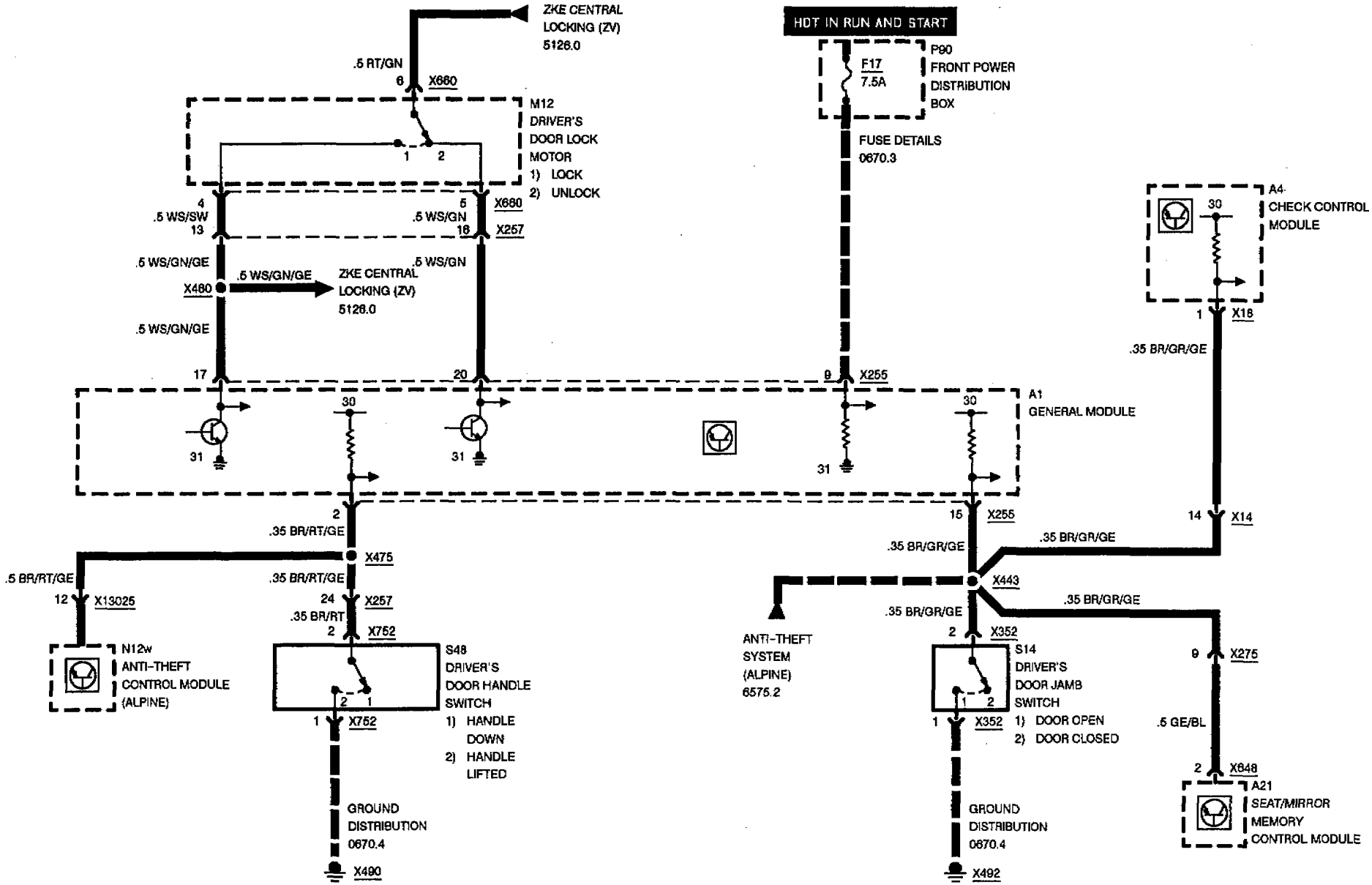


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ZKE DOOR LOCK HEATING (TSH)

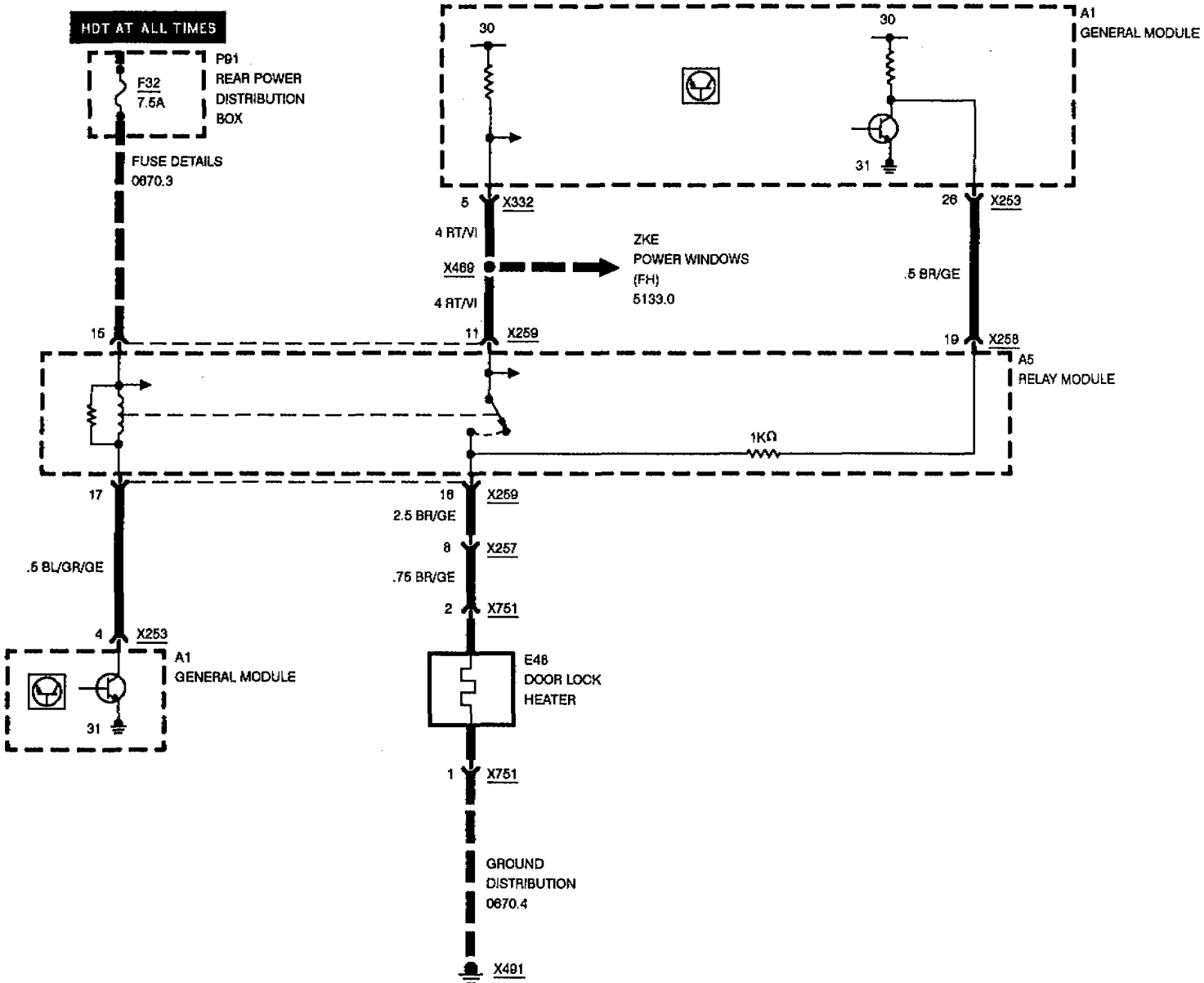
INPUT DETAILS



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ZKE DOOR LOCK HEATING (TSH)

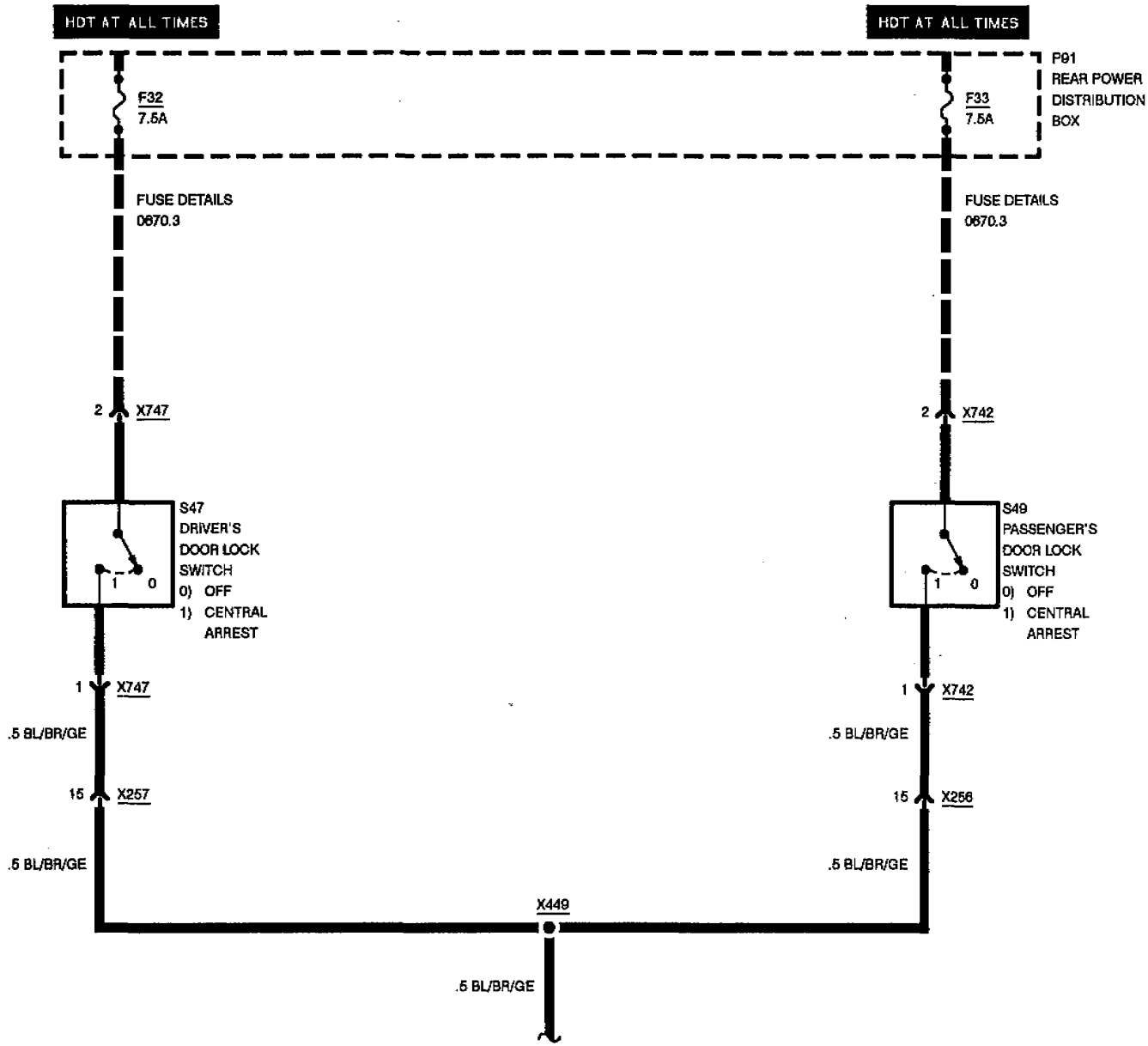
OUTPUT DETAILS



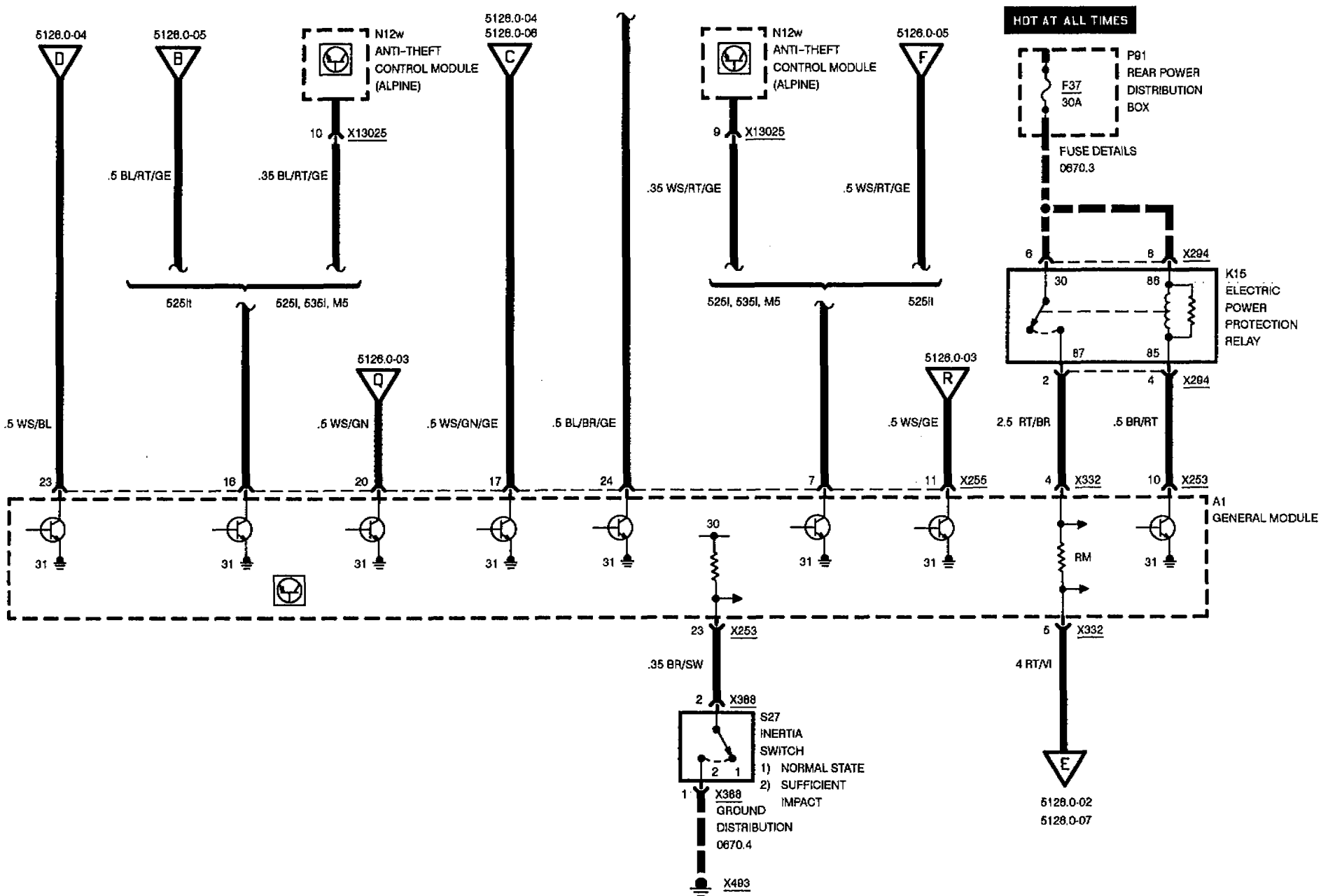
cardiagn.com

ZKE CENTRAL LOCKING (ZV)

INPUT DETAILS



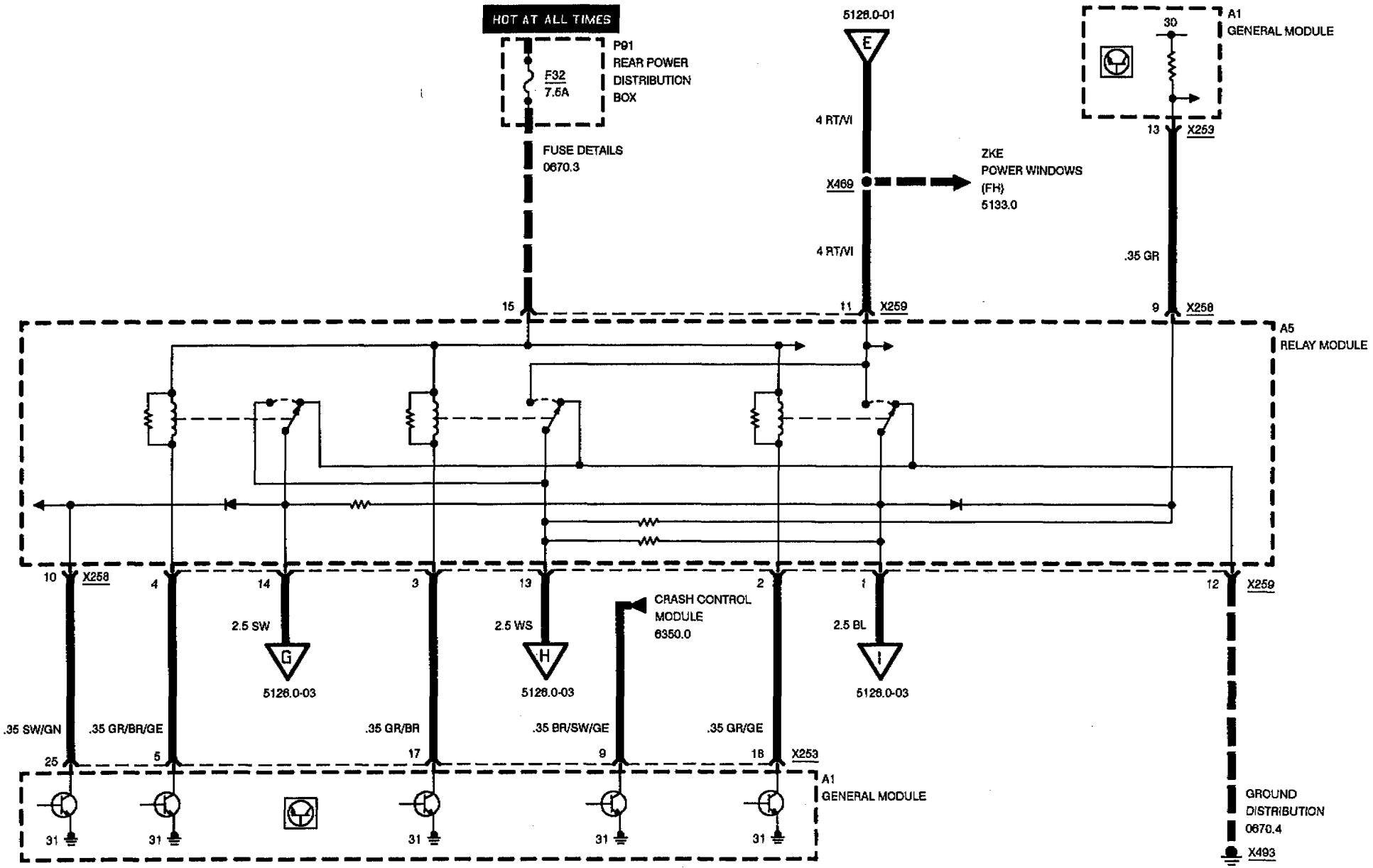
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ZKE CENTRAL LOCKING (ZV)

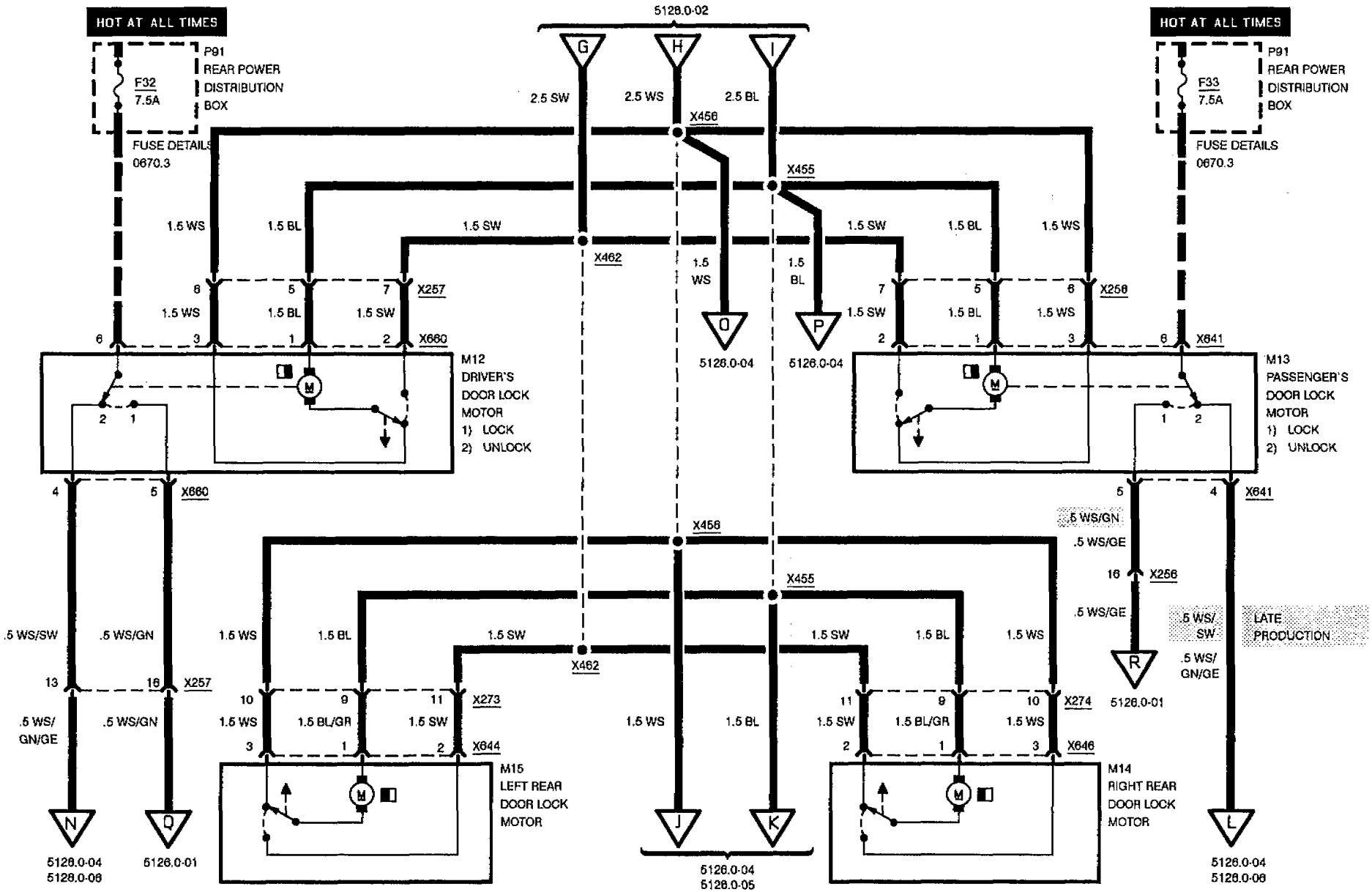
OUTPUT DETAILS



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ZKE CENTRAL LOCKING (ZV)

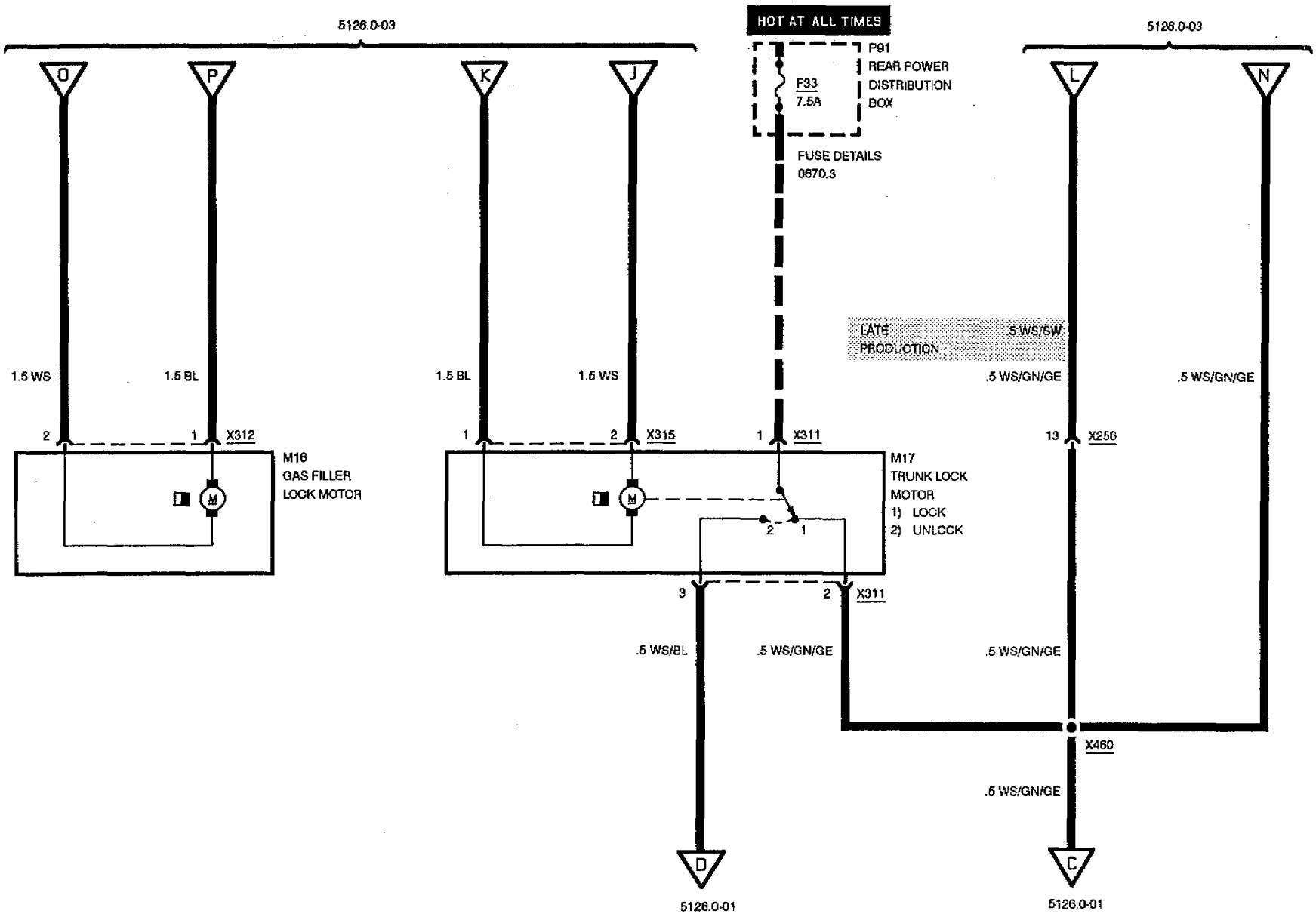
OUTPUT DETAILS



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ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

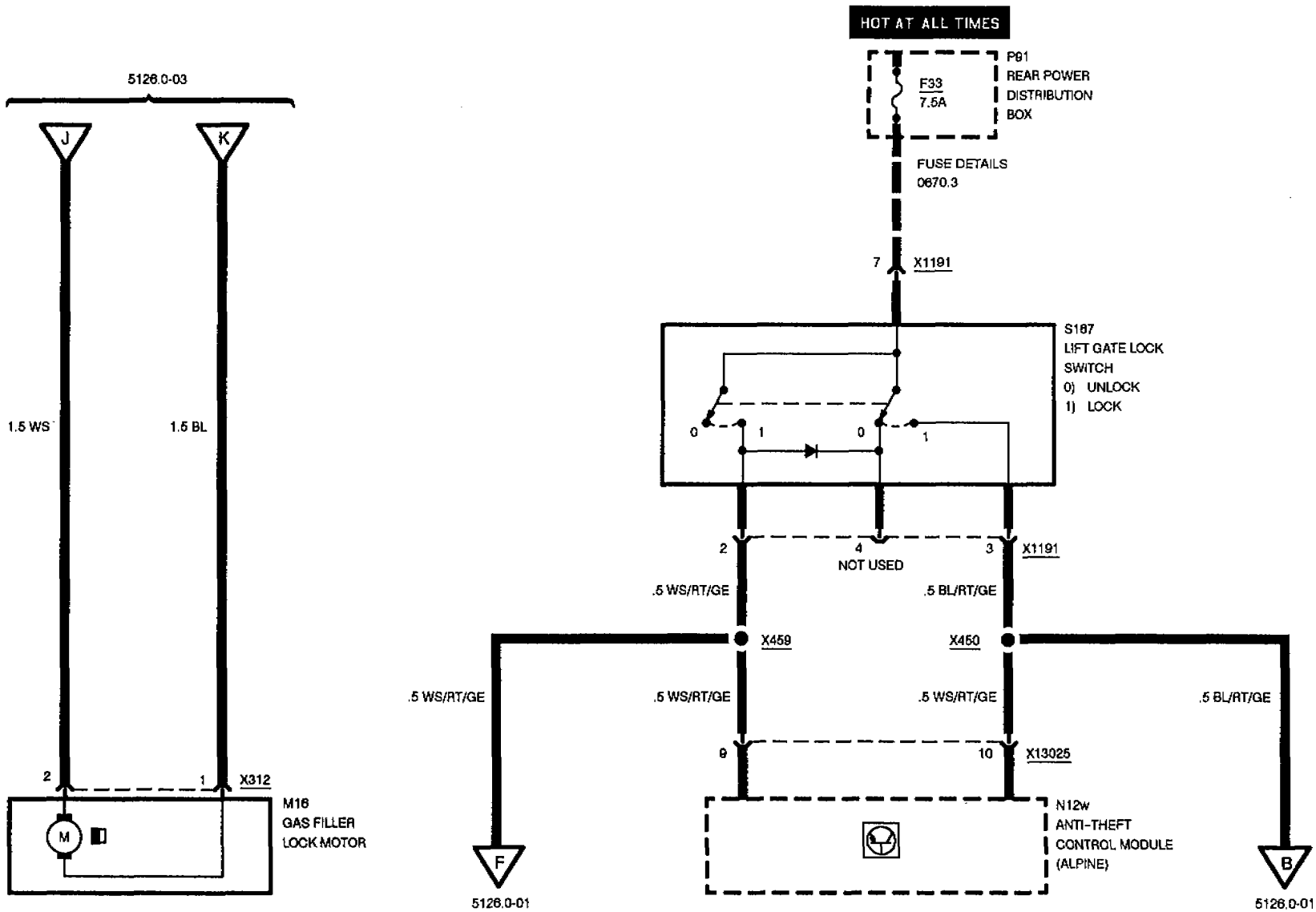


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ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

525it

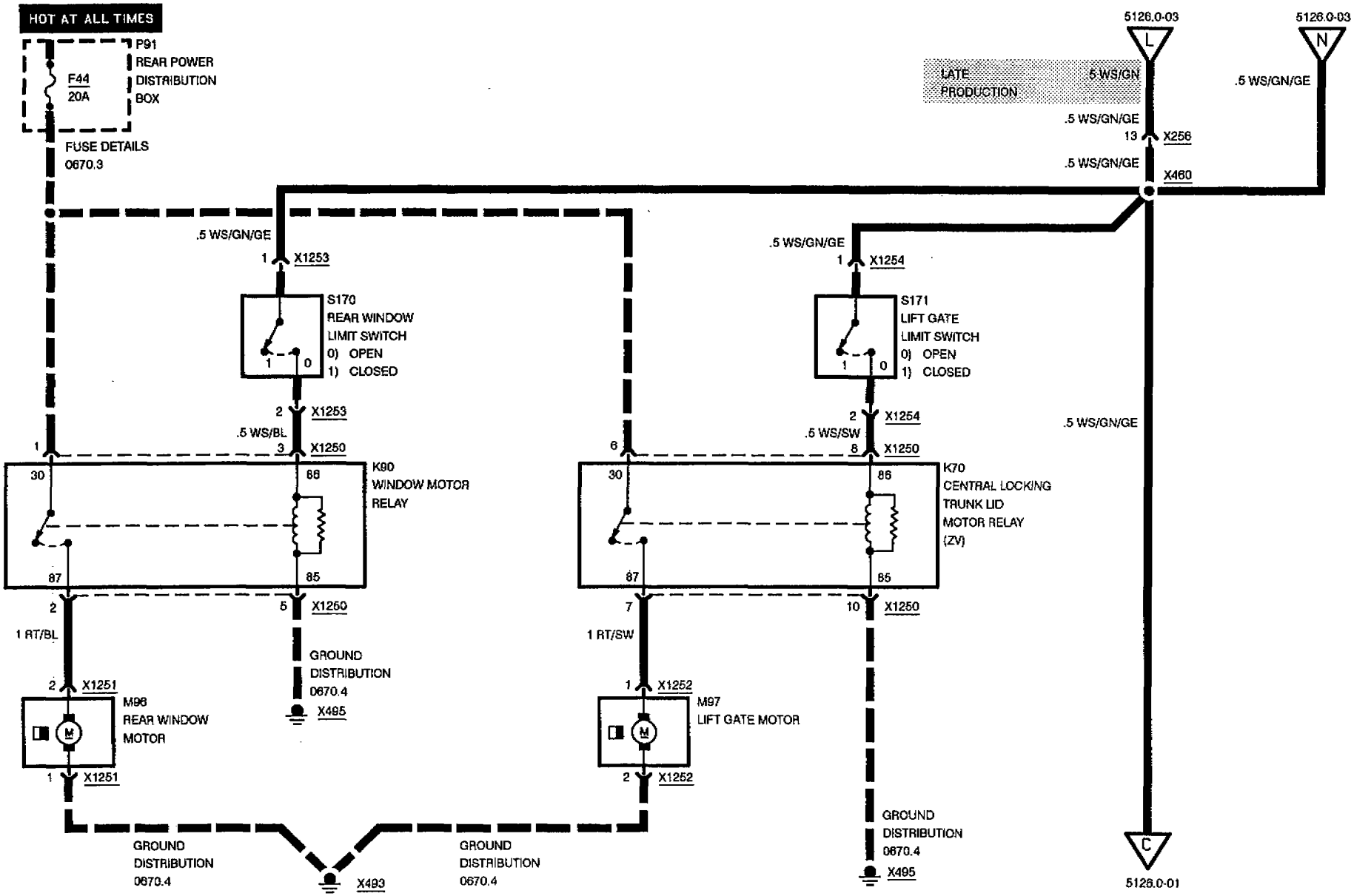


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ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

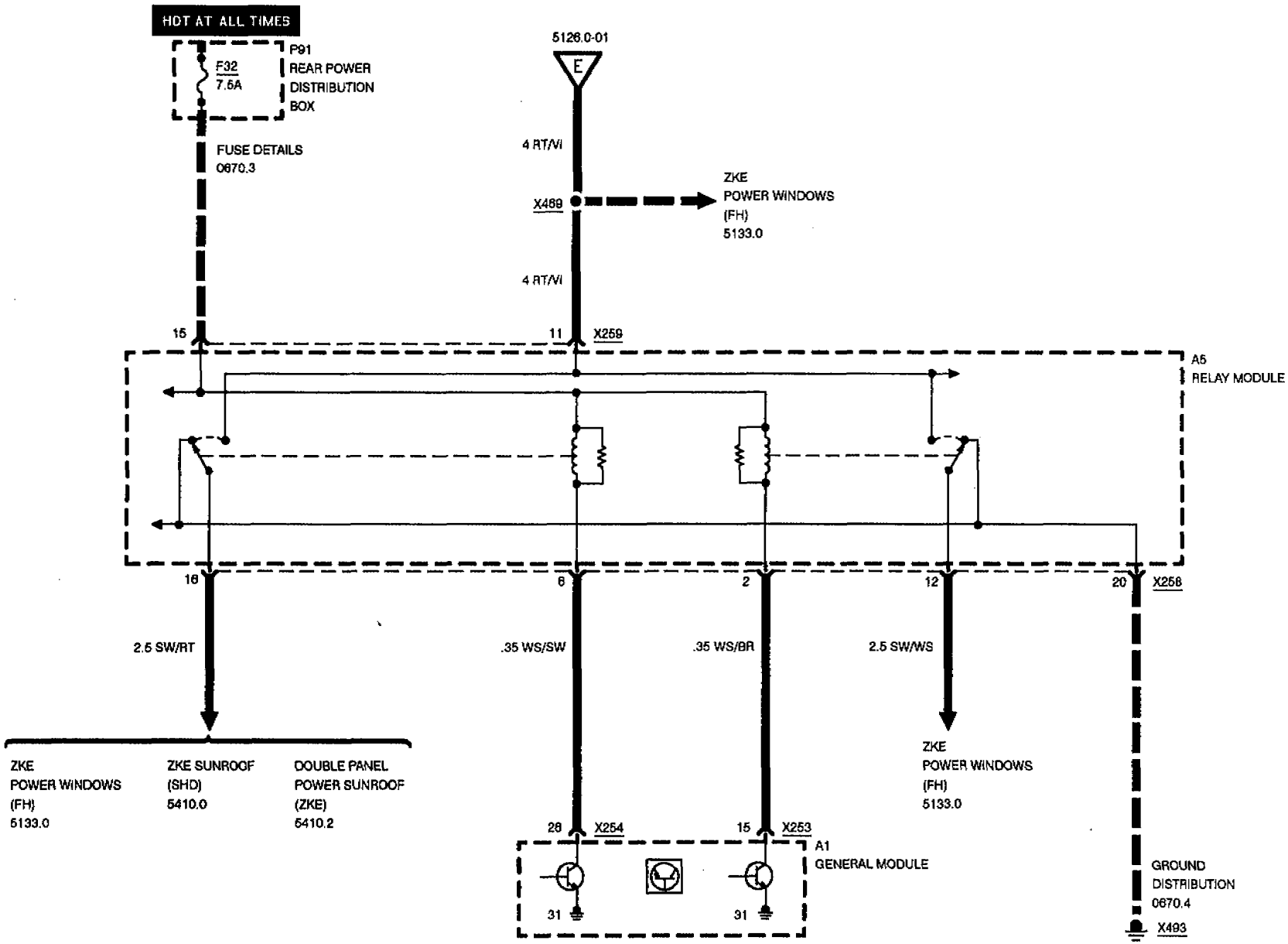
525it



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ZKE CENTRAL LOCKING (ZV)

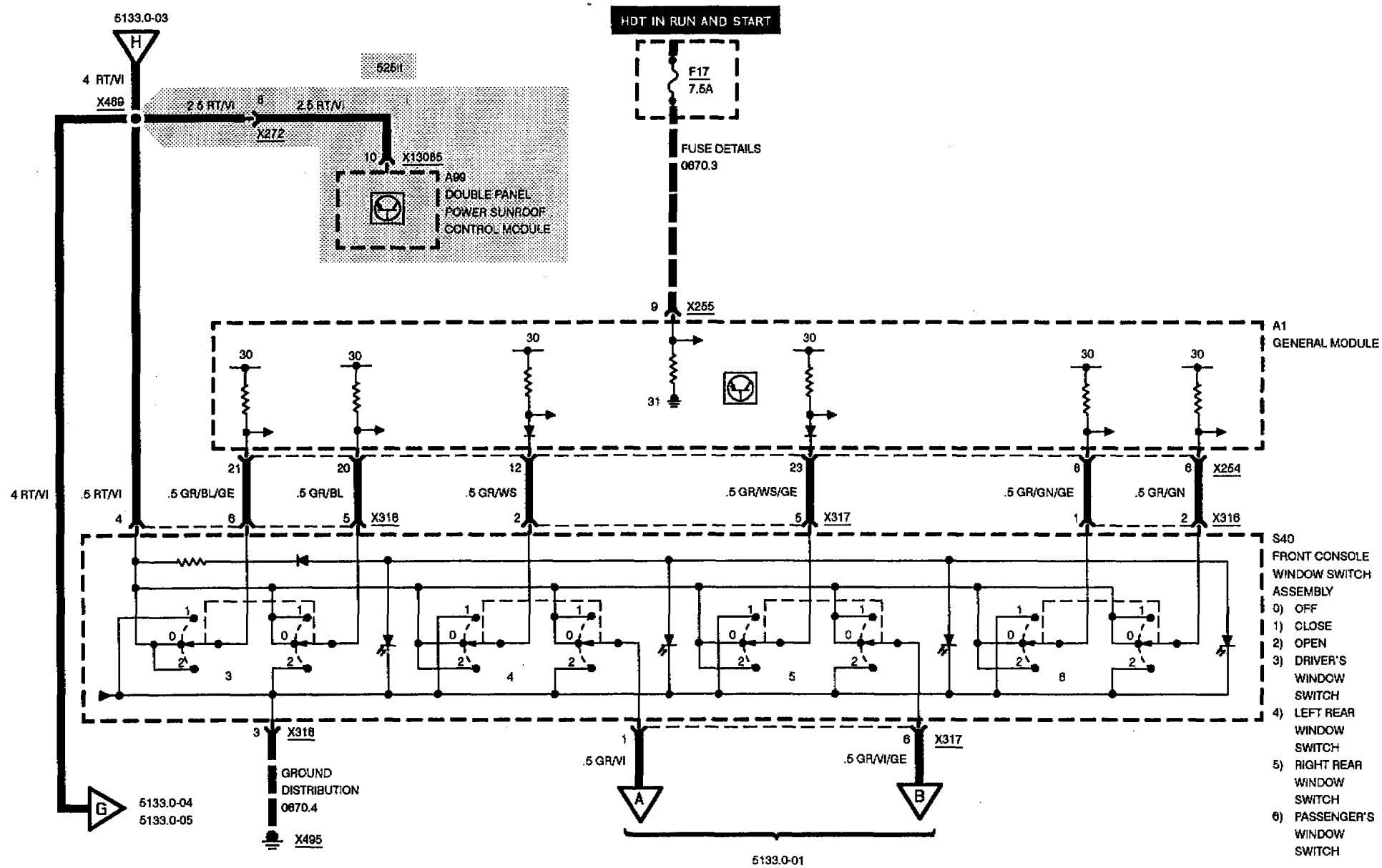
OUTPUT DETAILS



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ZKE POWER WINDOWS (FH)

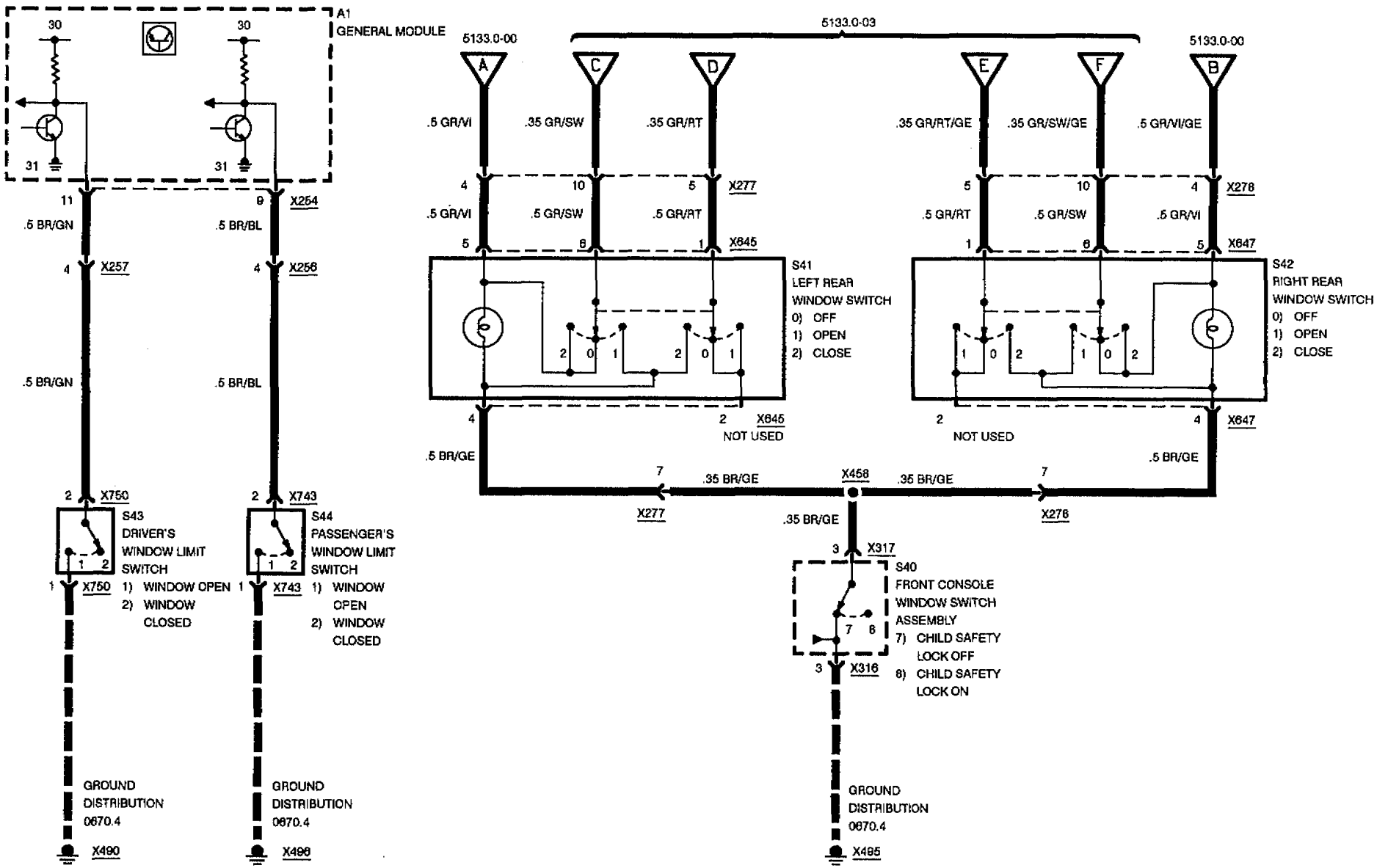
INPUT DETAILS



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ZKE POWER WINDOWS (FH)

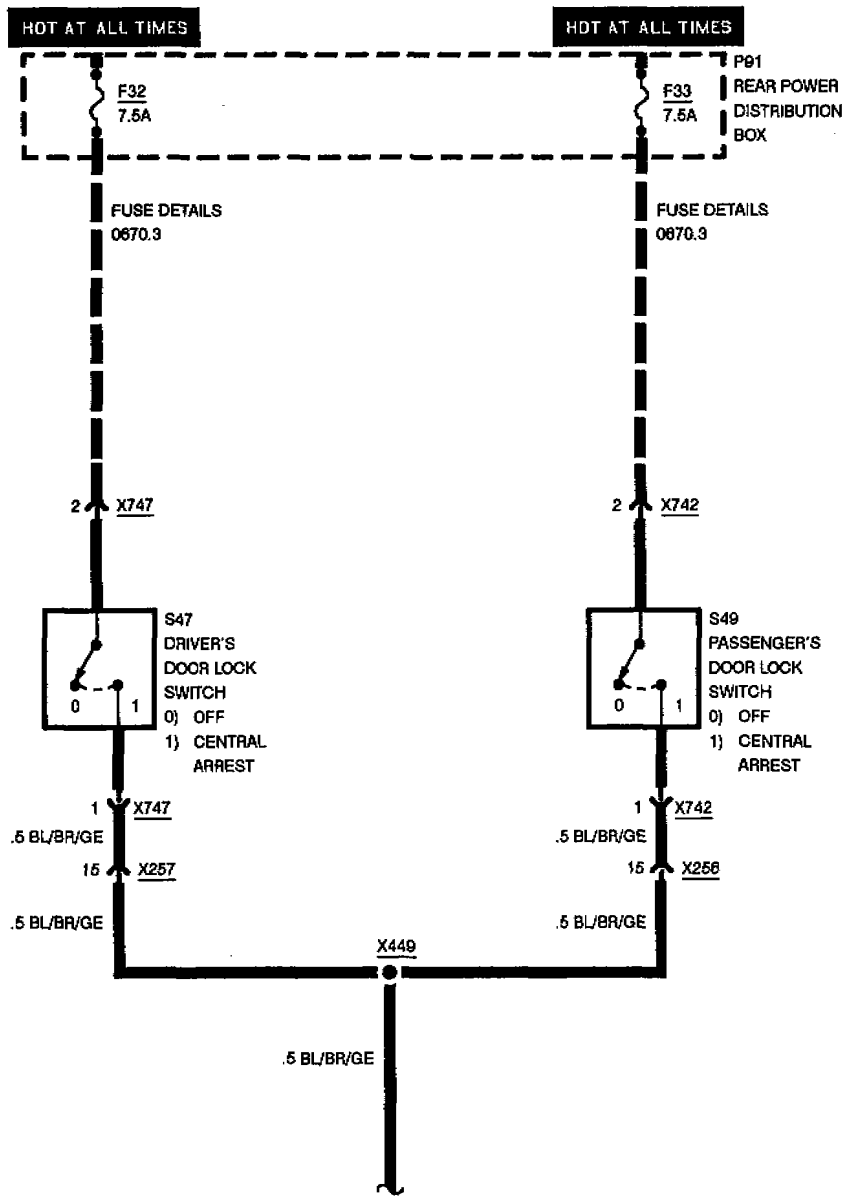
INPUT DETAILS



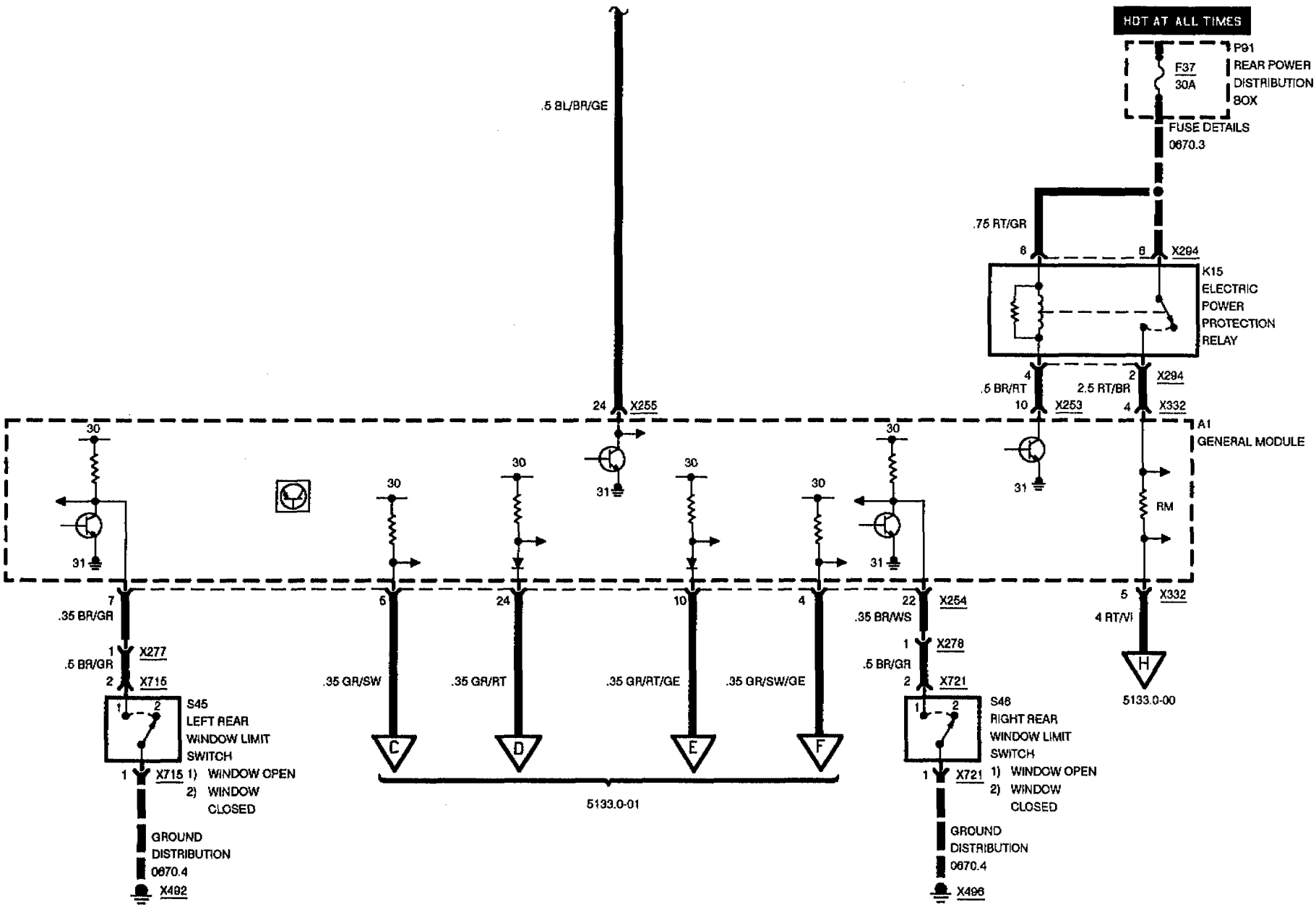
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ZKE POWER WINDOWS (FH)

INPUT DETAILS



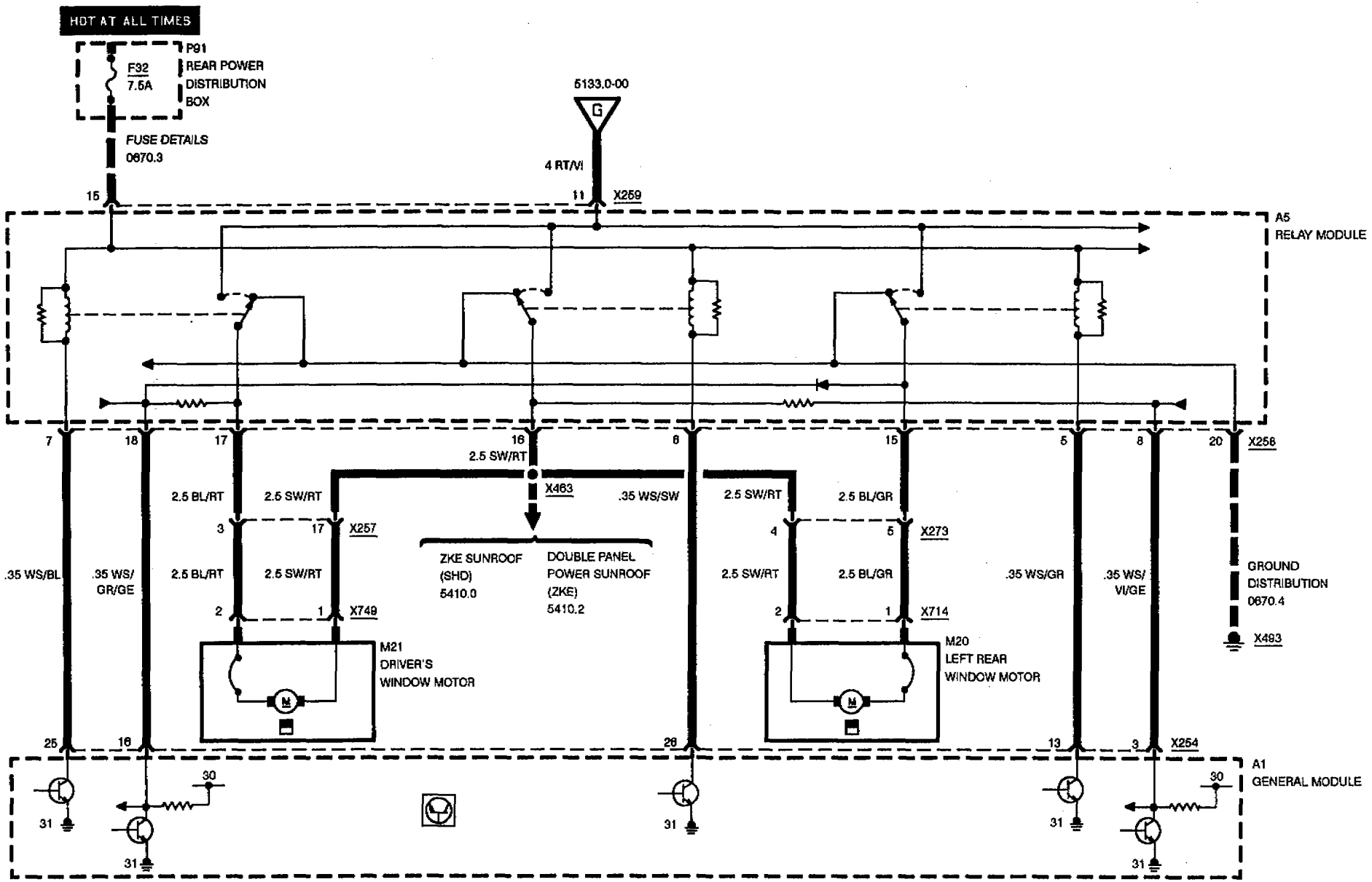
carlabgh.com



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ZKE POWER WINDOWS (FH)

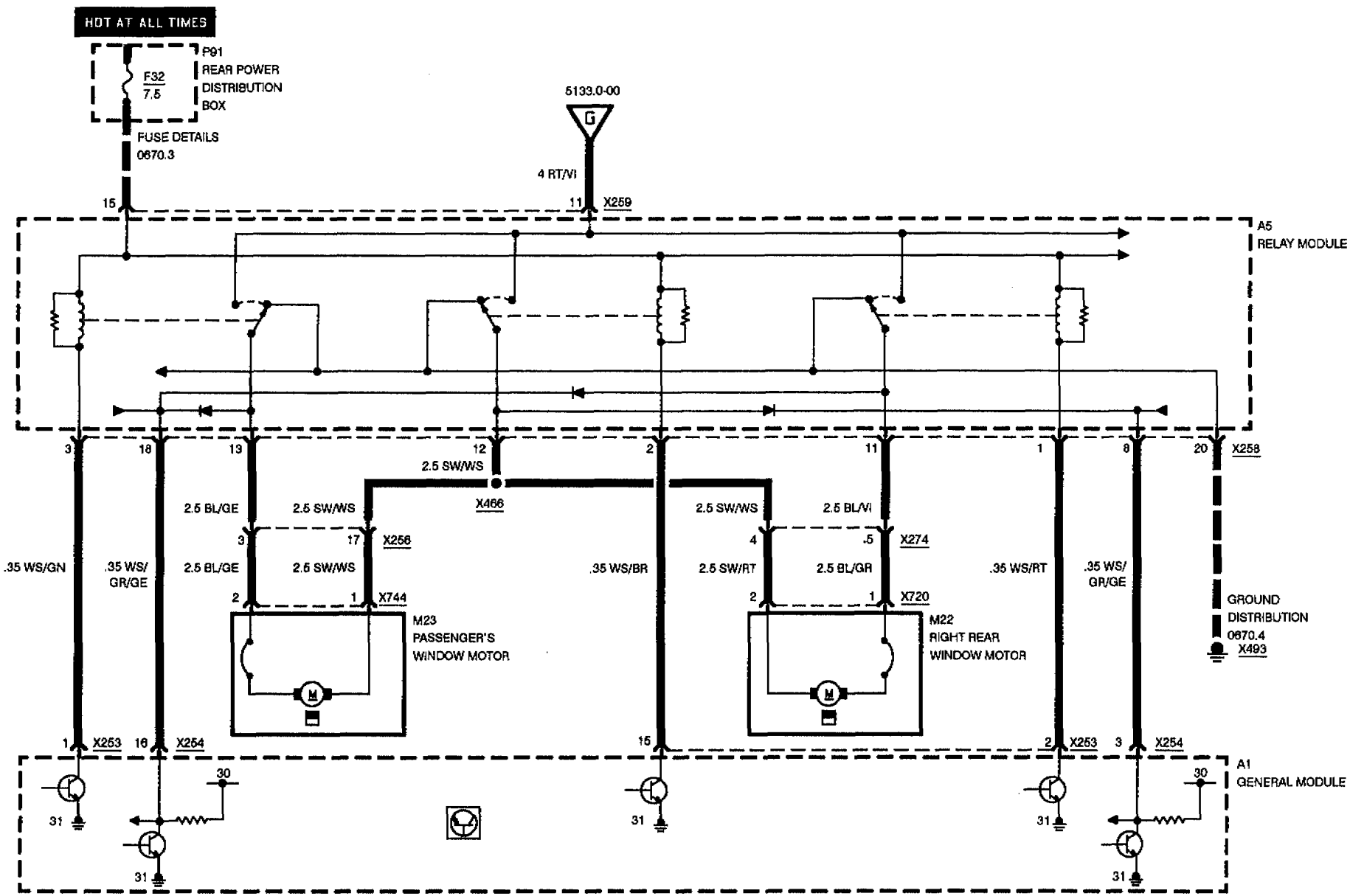
LEFT SIDE OUTPUT DETAILS



carplagu.com

ZKE POWER WINDOWS (FH)

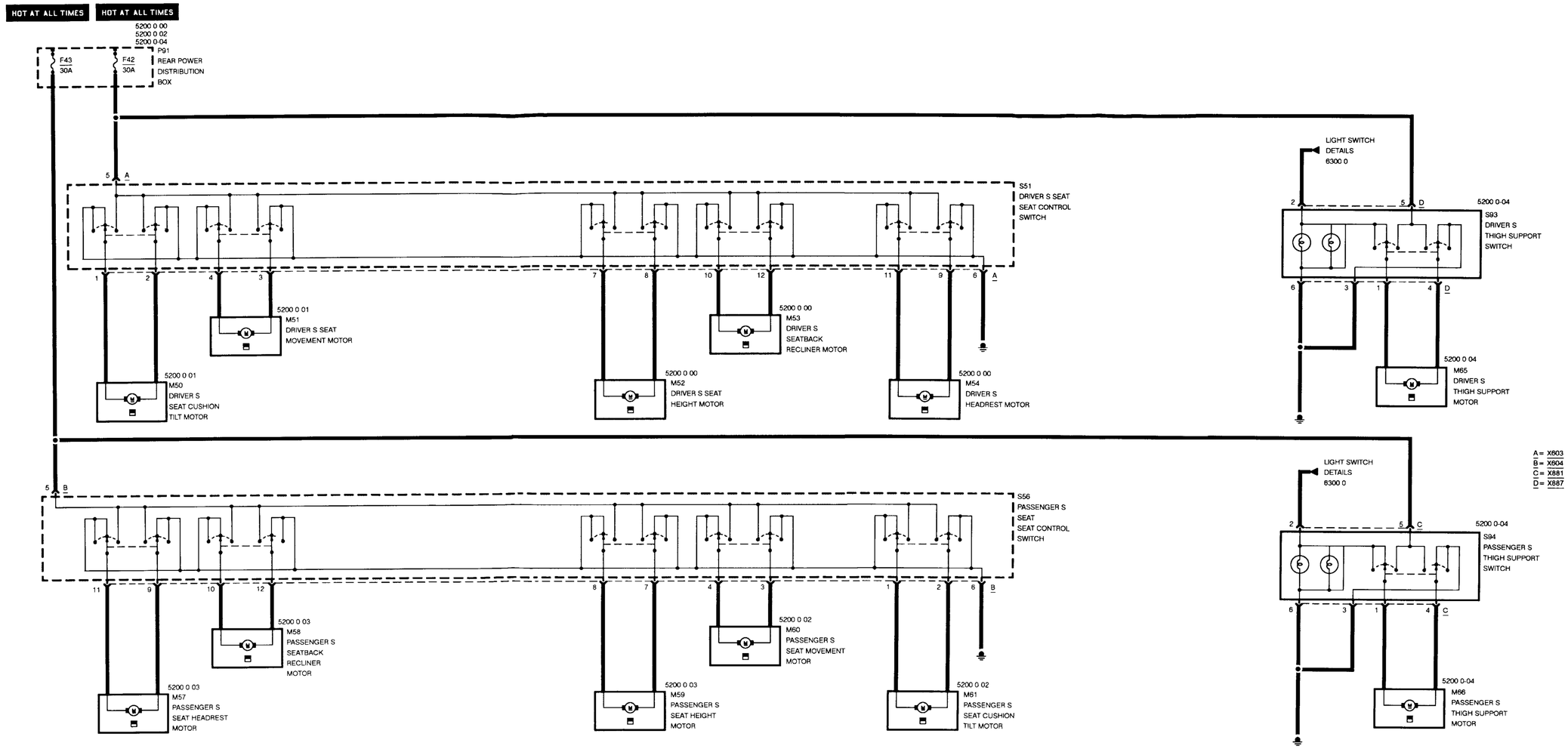
RIGHT SIDE OUTPUT DETAILS



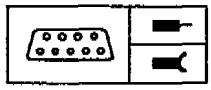
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12/93 5200 0 1993
12/93 5200 0 1993



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Pin Assignments

A=X603	12 Pins, black
B=X604	12 Pins, black
C=X881	6 Pins, white
D=X887	6 Pins, black

X603 (Driver) and X604 (Passenger)

Pin	Type	Description/Function	Connection
1	E/A	Seat cushion tilt control	Seat cushion tilt motor
2	E/A	Seat cushion tilt control	Seat cushion tilt motor
3	E/A	Seat cushion movement control	Seat movement motor
4	E/A	Seat cushion movement control	Seat movement motor
5	E	Battery voltage	Rear power distribution box
6	M	Ground	Ground point
7	E/A	Seat cushion height control	Seat height motor
8	E/A	Seat cushion height control	Seat height motor
9	E/A	Headrest control	Headrest motor
10	E/A	Recliner control	Seat back recliner motor
11	E/A	Headrest control	Headrest motor
12	E/A	Recliner control	Seat back recliner motor

X887 (Driver) and X881 (Passenger)

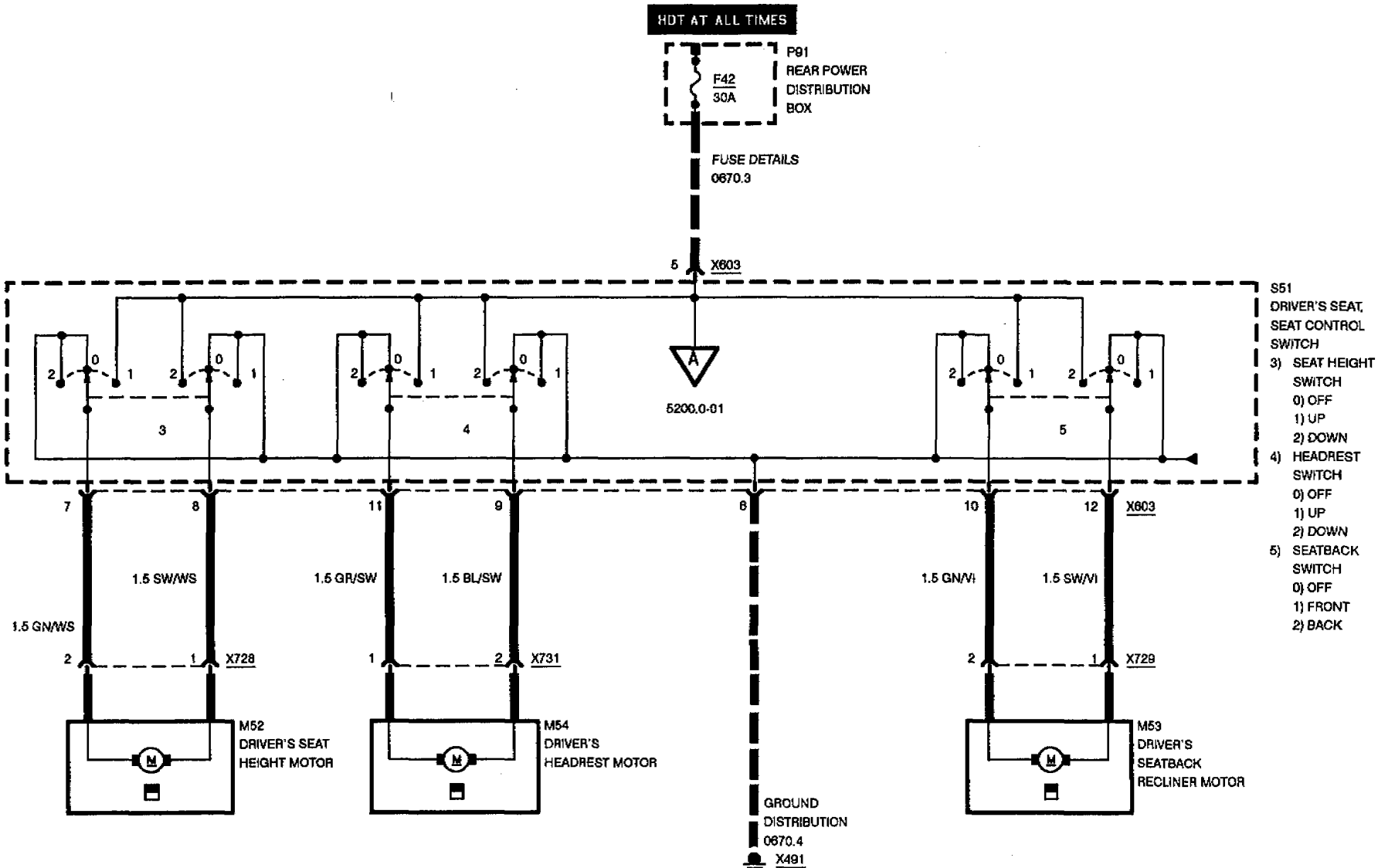
Pin	Type	Description/Function	Connection
1	E/A	Thigh support control	Thigh support motor
2	E	Switch illumination	Light switch
3	M	Ground	Ground point
4	E/A	Thigh support control	Thigh support motor
5	E	Battery voltage	Rear power distribution box
6	M	Ground	Ground point

E = Input, A = Output, M = Ground

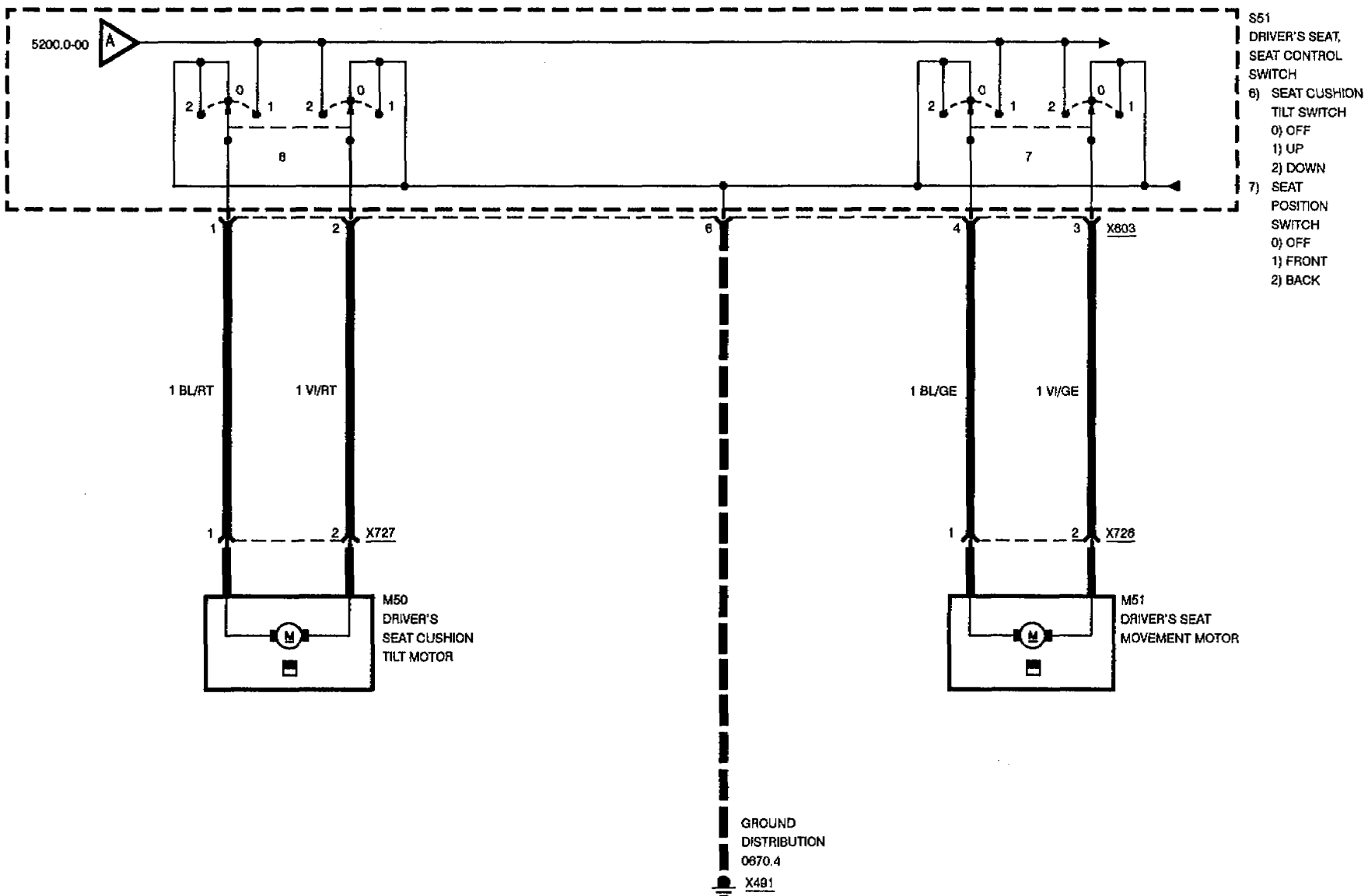
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POWER SEATS

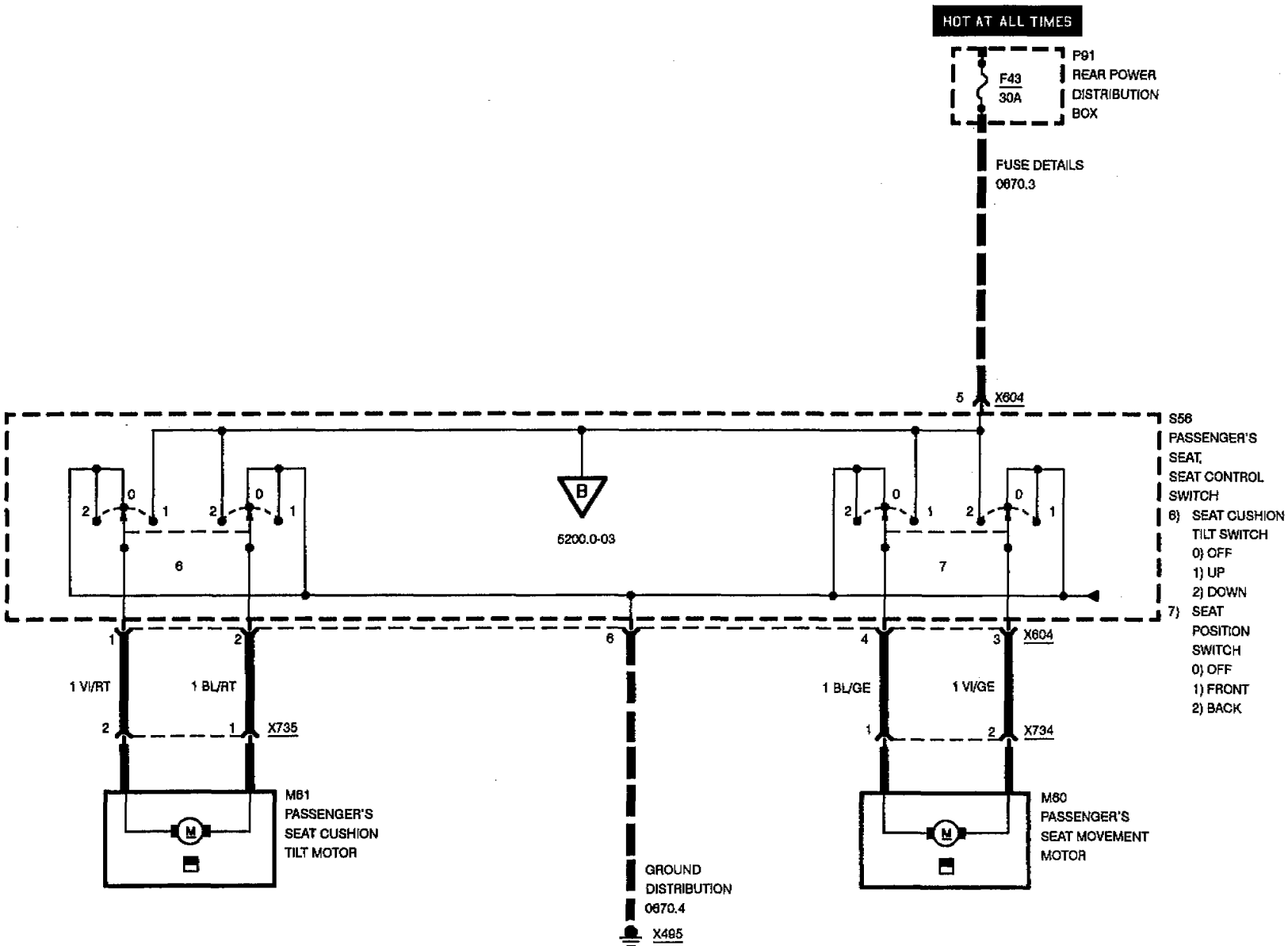
DRIVER'S SEAT



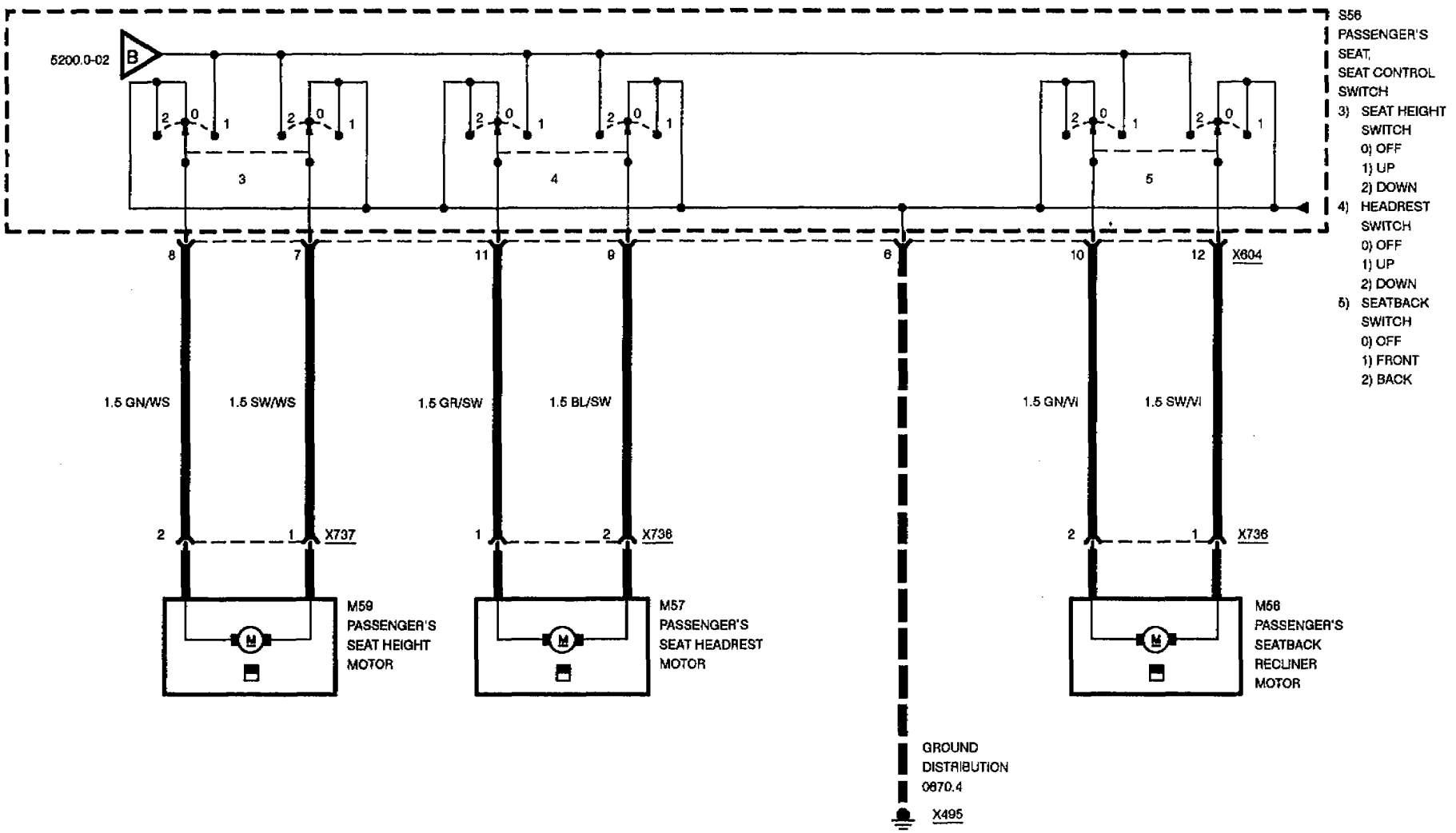
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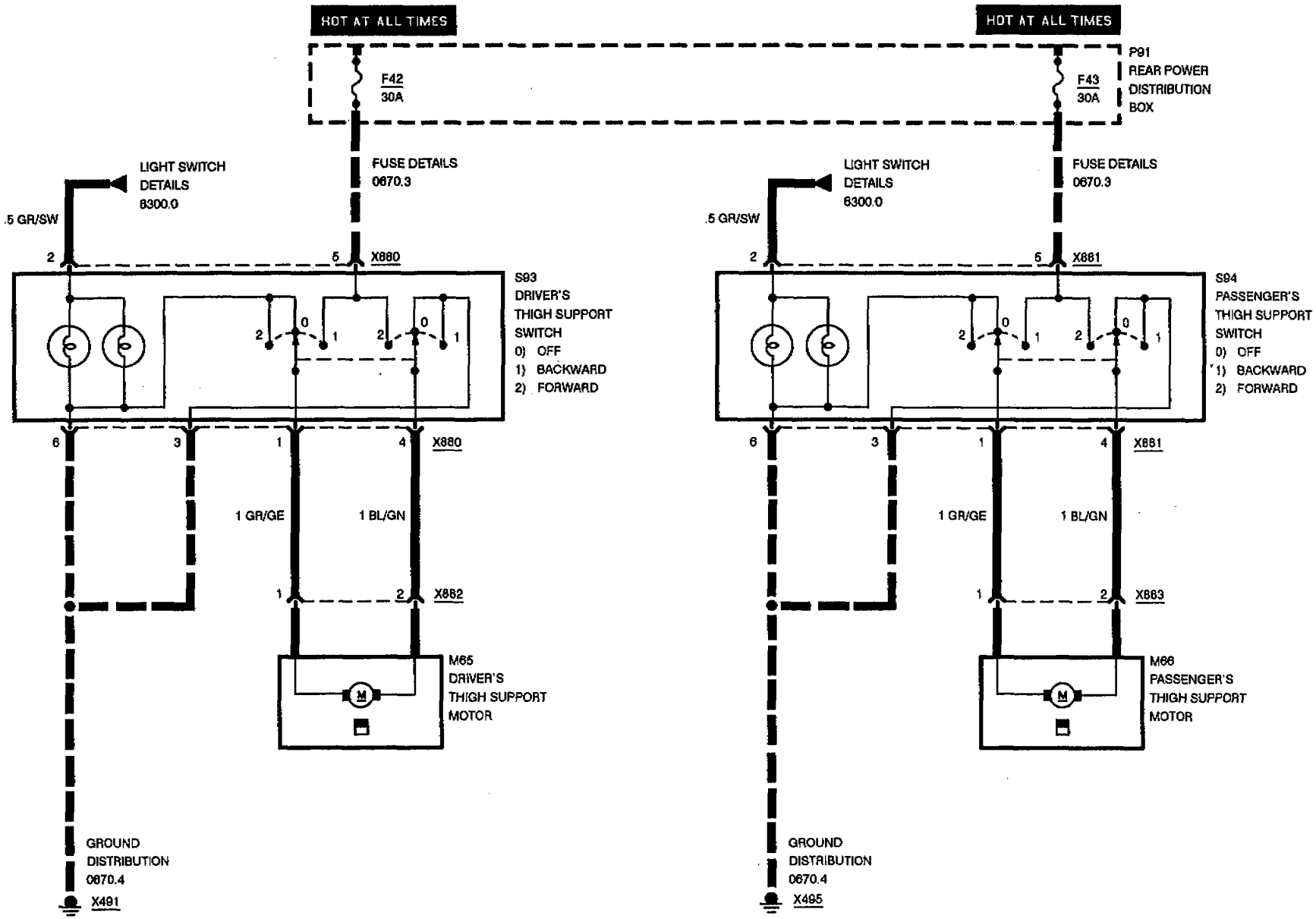
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POWER SEATS

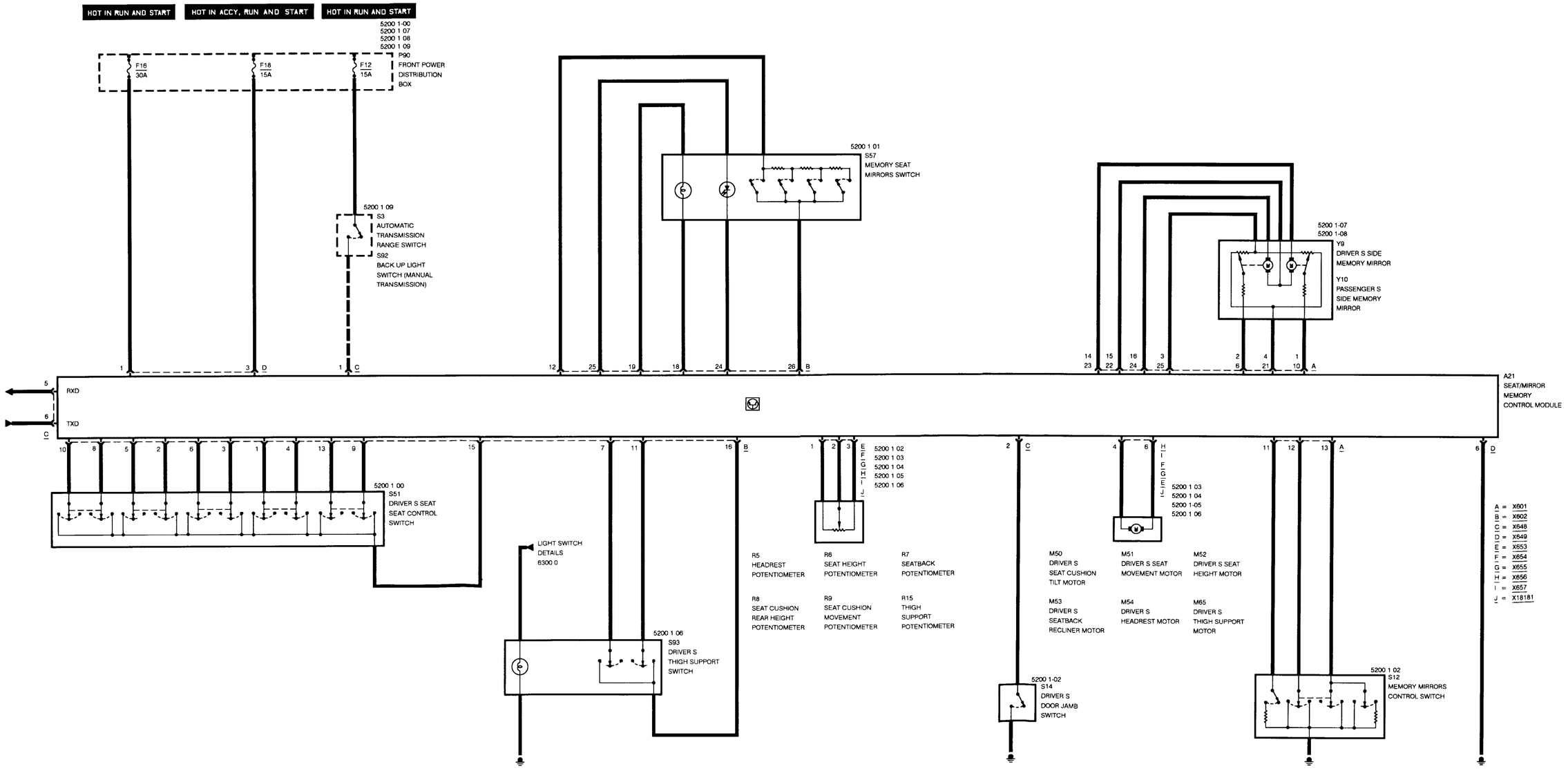
THIGH SUPPORT, WITH SPORT SEATS ONLY



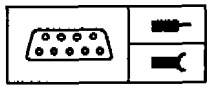
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09/92 — 5200 1 — 1993

09/92 — 5200 1 — 1993



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Pin Assignments

A=X601	26 Pins, white
B=X602	26 Pins, yellow
C=X648	6 Pins, black
D=X649	6 Pins, white
E=X653	6 Pins, black
F=X654	6 Pins, white
G=X655	6 Pins, blue
H=X656	6 Pins, green
I=X657	6 Pins, brown
J=X18181	6 Pins, yellow

X601

Pin	Type	Description/Function	Connection
1	E	Potentiometer connection	Memory mirror, driver's side
2	E	Potentiometer connection	Memory mirror, driver's side
3	A	Position potentiometer	Memory mirror, driver's side
4	M	Position potentiometer	Memory mirror, driver's side
5		Not used	
6	E	Potentiometer connection	Memory mirror, passenger's side
7		Not used	
8		Not used	
9		Not used	
10	E	Potentiometer connection	Memory mirror, passenger's side
11	E	Mirror select signal	Memory seat/mirrors switch
12	E	Mirror adjustment, L/R	Memory seat/mirrors switch
13	E	Mirror adjustment, L/R and U/D	Memory seat/mirrors switch
14	E/A	Mirror adjustment motor, horizontal	Memory mirror, driver's side
15	E/A	Mirror adjustment motor, horizontal/vertical	Memory mirror, driver's side
16	E/A	Mirror adjustment motor, vertical	Memory mirror, driver's side
17		Not used	
18		Not used	
19		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments

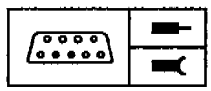
Pin	Type	Description/Function	Connection
20		Not used	
21	M	Position potentiometer, ground	Memory mirror, passenger's side
22	E/A	Mirror adjustment motor, horizontal/ vertical	Memory mirror, passenger's side
23	E/A	Mirror adjustment motor, horizontal	Memory mirror, passenger's side
24	E/A	Mirror adjustment motor, vertical	Memory mirror, passenger's side
25	A	Position potentiometer voltage	Memory mirror, passenger's side
26		Not used	

X602

Pin	Type	Description/Function	Connection
1	E	Headrest, down	Seat control switch, driver's seat
2	E	Tilt, down	Seat control switch, driver's seat
3	E	Height, down	Seat control switch, driver's seat
4	E	Headrest, up	Seat control switch, driver's seat
5	E	Tilt, up	Seat control switch, driver's seat
6	E	Height, up	Seat control switch, driver's seat
7	E	Thigh support, backward	Thigh support switch, driver's
8	E	Seat movement, back	Seat control switch, driver's seat
9	E	Backrest, back	Seat control switch, driver's seat
10	E	Seat movement, forward	Seat control switch, driver's seat
11	E	Thigh support, forward	Thigh support switch, driver's
12	A	Voltage supply for memory seat/ mirrors switch	Memory seat/mirrors switch
13	E	Backrest forward	Seat control switch, driver's seat
14		Not used	
15	M	Ground	Seat control switch, driver's seat
16	M	Ground	Thigh support switch, driver's
17		Not used	
18	A	Switch illumination (-)	Memory seat/mirrors switch
19	A	Switch illumination (+)	Memory seat/mirrors switch
20		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
21		Not used	
22		Not used	
23		Not used	
24	A	Memory seat/mirrors switch LED (+)	Memory seat/mirrors switch
25	A	Memory seat/mirrors switch LED (-)	Memory seat/mirrors switch
26	E	Memory seat/mirrors switch signal	Memory seat/mirrors switch

X648

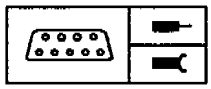
Pin	Type	Description/Function	Connection
1	E	Reverse gear signal	Automatic transmission range switch or back-up switch
2	E	Driver's door status	Door jump switch, driver's
3		Not used	
4		Not used	
5	E	RxD diagnostic data link	Data link connector (RxD)
6	E/A	TxD diagnostic data link	Data link connector (TxD)

X649

Pin	Type	Description/Function	Connection
1	E	Voltage supply (terminal 15)	Front power distribution box
2		Not used	
3	E	Voltage supply (terminal R)	Front power distribution box
4		Not used	
5		Not used	
6	M	Ground	Ground point

E = Input, A = Output, M = Ground

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Pin Assignments

X653

Pin	Type	Description/Function	Connection
1	A	Potentiometer voltage	Headrest potentiometer, driver's
2	E	Headrest position signal	Headrest potentiometer, driver's
3	M	Ground	Headrest potentiometer, driver's
4	E/A	Motor voltage/ground	Headrest motor, driver's
5		Not used	
6	E/A	Motor voltage/ground	Headrest motor, driver's

X654

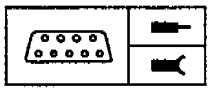
Pin	Type	Description/Function	Connection
1	A	Potentiometer voltage	Seat height potentiometer, driver's
2	E	Seat height position signal	Seat height potentiometer, driver's
3	M	Ground	Seat height potentiometer, driver's
4	E/A	Motor voltage/ground	Seat height motor, driver's
5		Not used	
6	E/A	Motor voltage/ground	Seat height motor, driver's

X655

Pin	Type	Description/Function	Connection
1	A	Potentiometer voltage	Seat back potentiometer, driver's
2	E	Seat back position signal	Seat back potentiometer, driver's
3	M	Ground	Seat back potentiometer, driver's
4	E/A	Motor voltage/ground	Seat back recliner motor, driver's
5		Not used	
6	E/A	Motor voltage/ground	Seat back recliner motor, driver's

E = Input, A = Output, M = Ground

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Pin Assignments

X656

Pin	Type	Description/Function	Connection
1	A	Potentiometer voltage	Seat rear height potentiometer, driver's
2	E	Seat rear height signal	Seat rear height potentiometer, driver's
3	M	Ground	Seat rear height potentiometer, driver's
4	E/A	Motor voltage/ground	Seat back recliner motor, driver's
5		Not used	
6	E/A	Motor voltage/ground	Seat back recliner motor, driver's

X657

Pin	Type	Description/Function	Connection
1	A	Potentiometer voltage	Seat potentiometer, driver's
2	E	Seat cushion position signal	Seat potentiometer, driver's
3	M	Ground	Seat potentiometer, driver's
4	E/A	Motor voltage/ground	Seat movement motor, driver's
5		Not used	
6	E/A	Motor voltage/ground	Seat movement motor, driver's

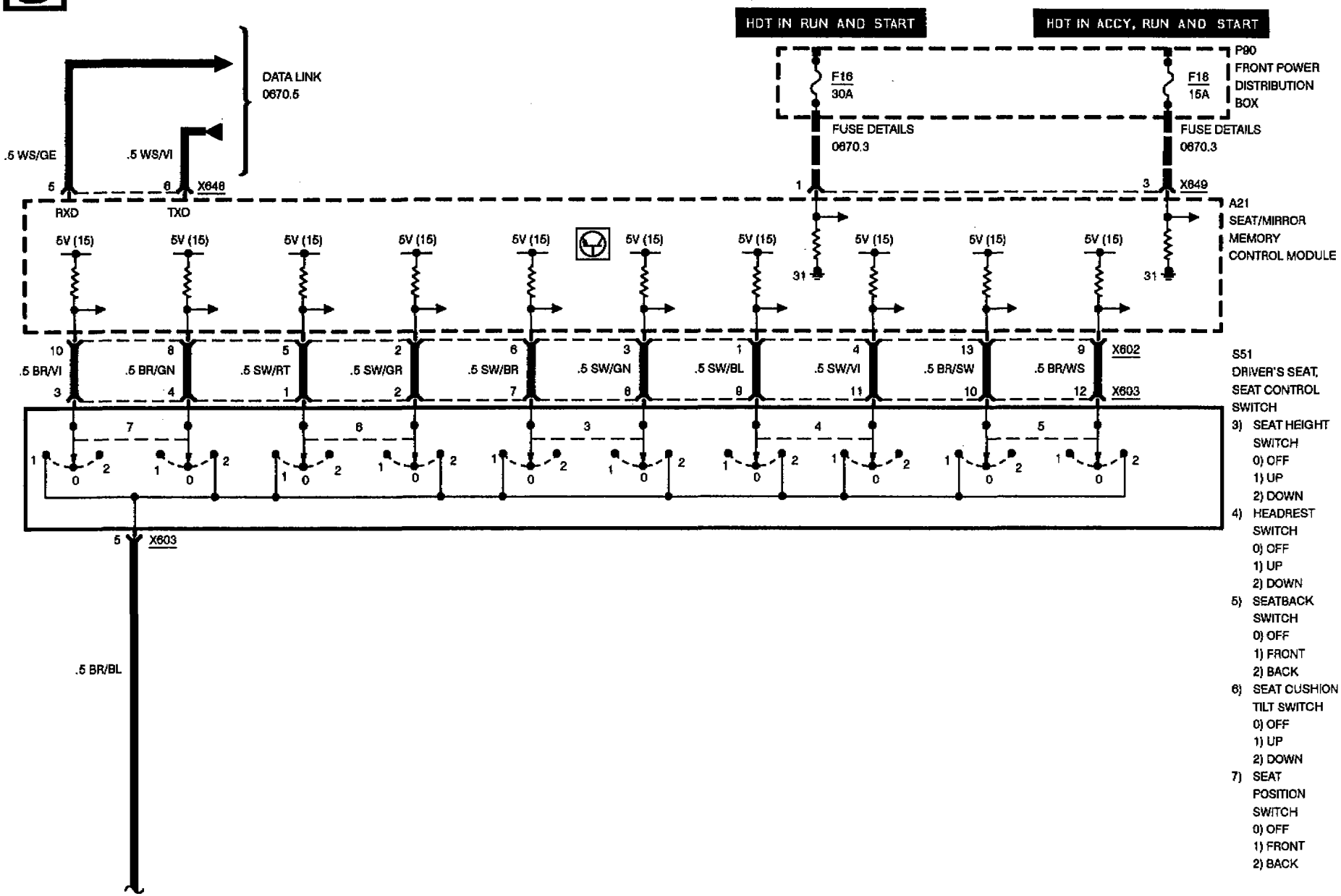
X18181

Pin	Type	Description/Function	Connection
1	A	Potentiometer voltage	Seat thigh support potentiometer, driver's
2	E	Thigh support position signal	Seat thigh support potentiometer, driver's
3	M	Ground	Seat thigh support potentiometer, driver's
4	E/A	Motor voltage/ground	Seat thigh support motor, driver's
5		Not used	
6	E/A	Motor voltage/ground	Seat thigh support motor, driver's

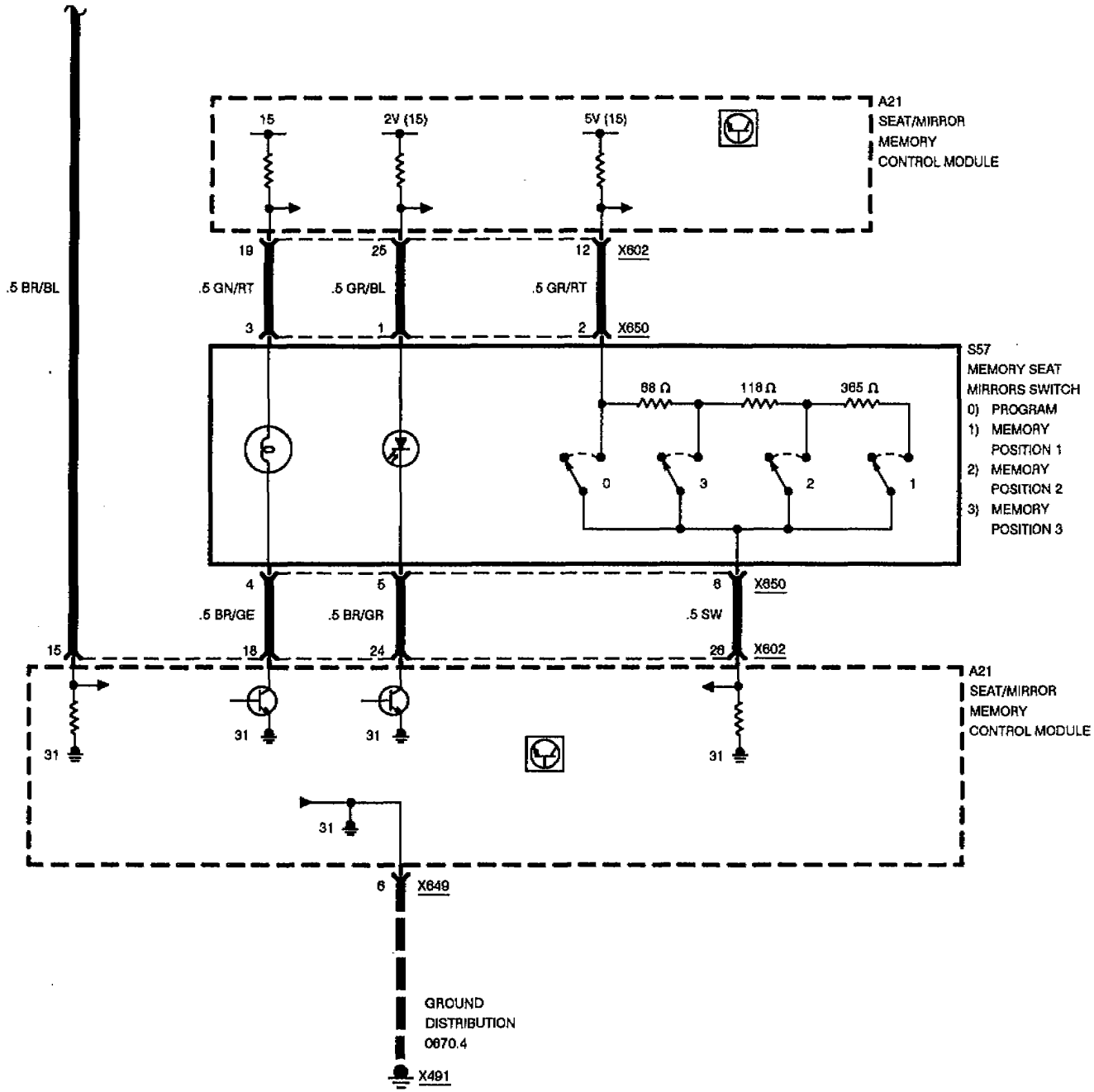
E = Input, A = Output, M = Ground

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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

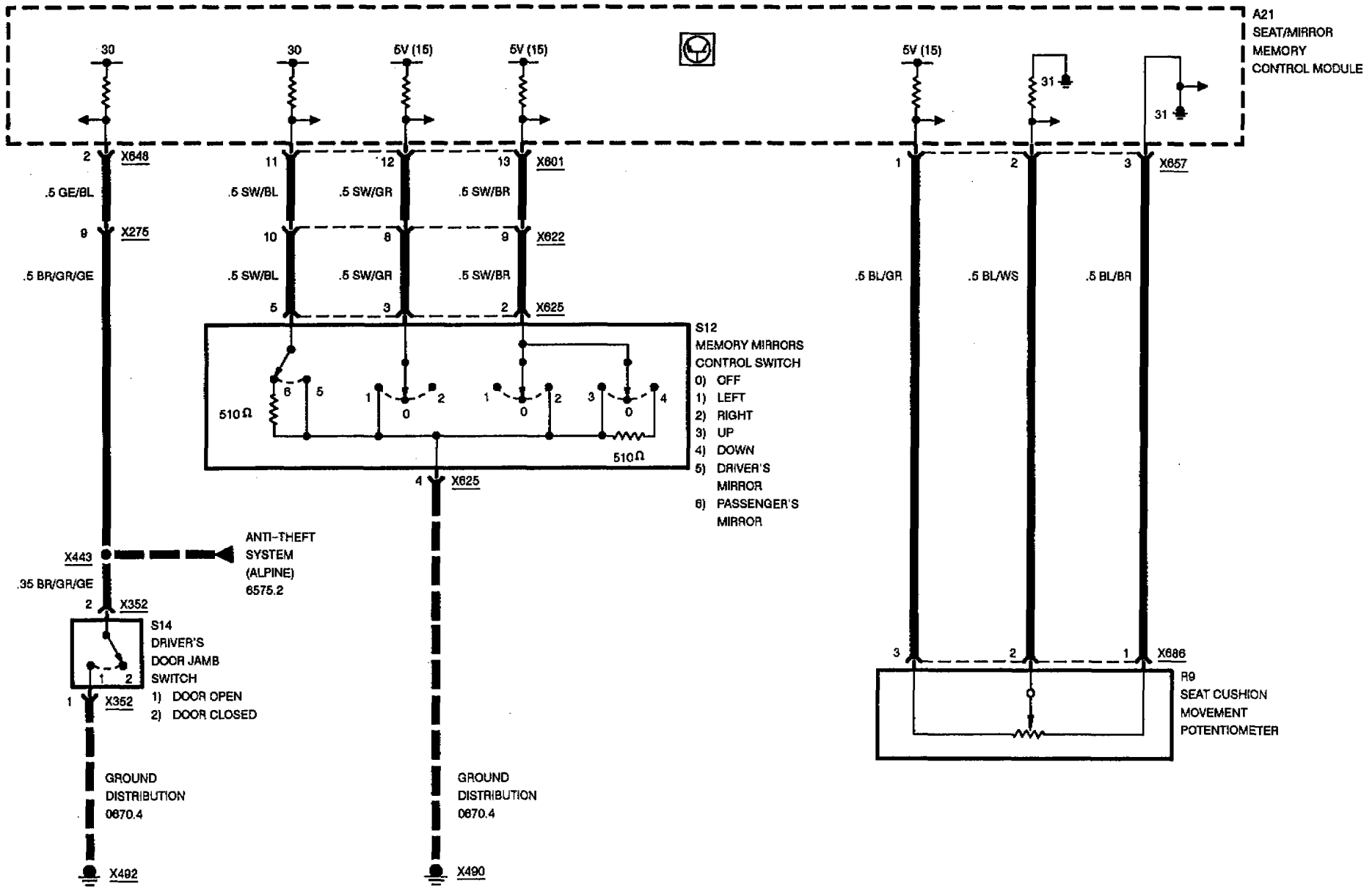


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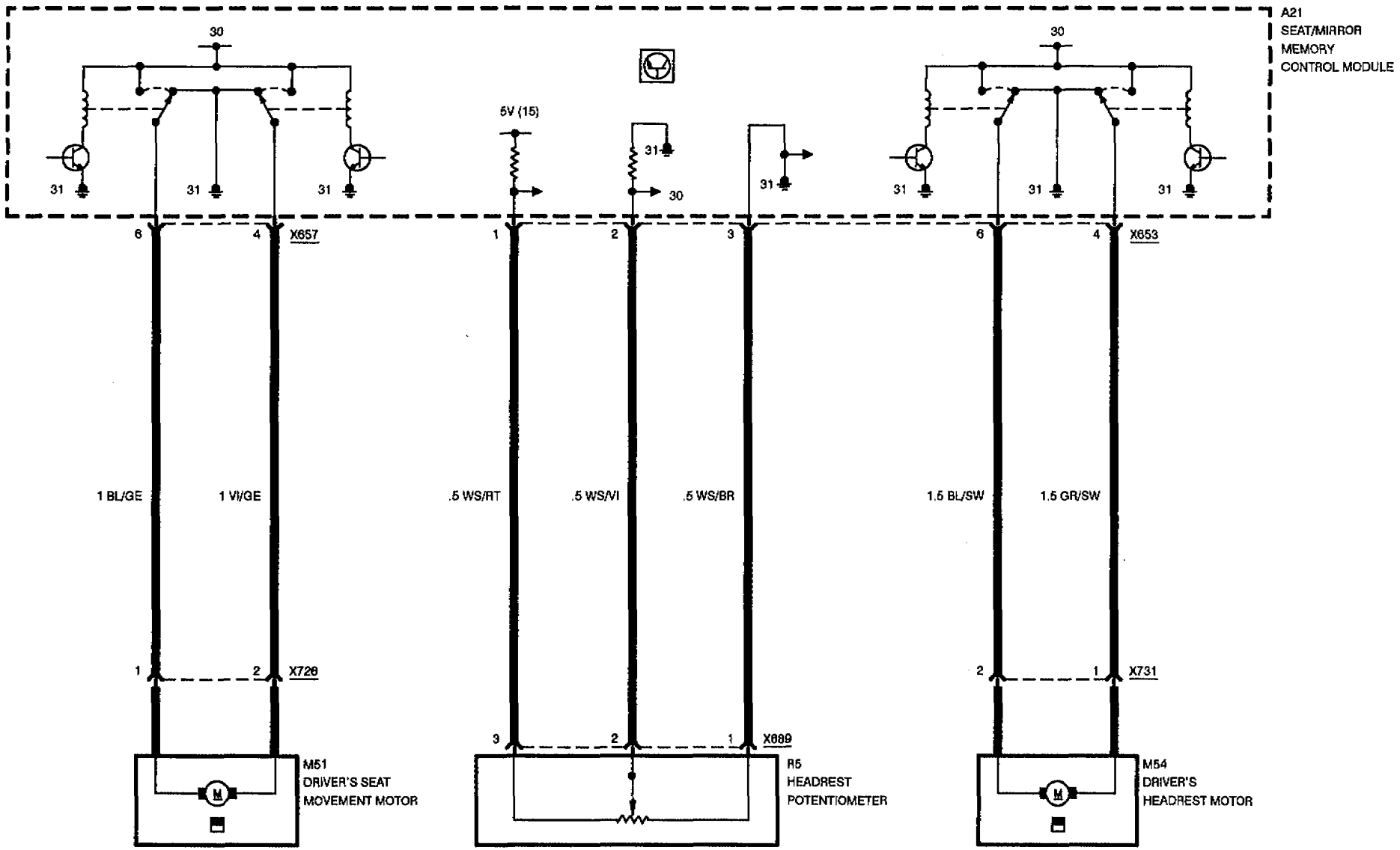
SEAT/MIRROR MEMORY SYSTEM (SM/SPM)



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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

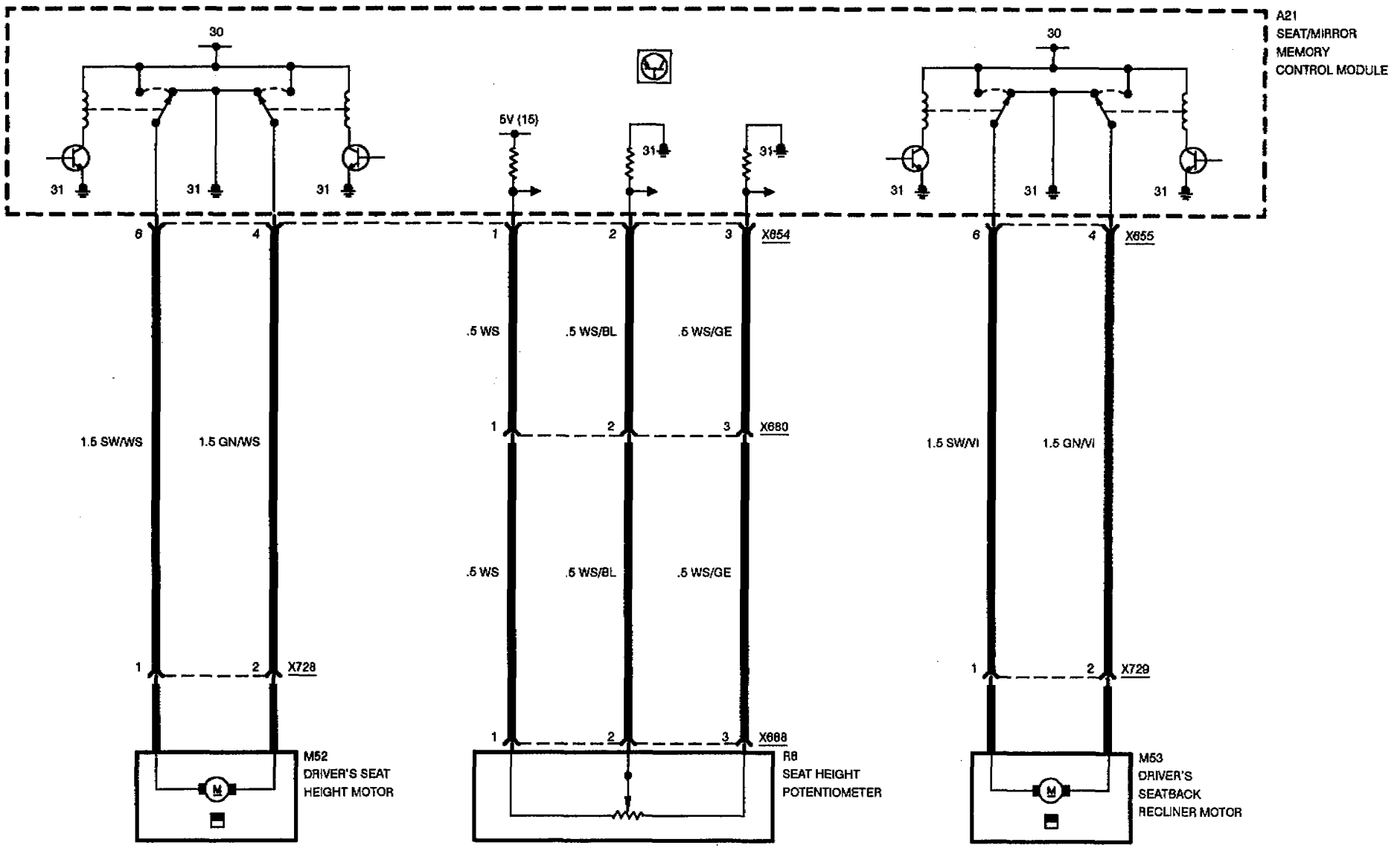
SEAT



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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

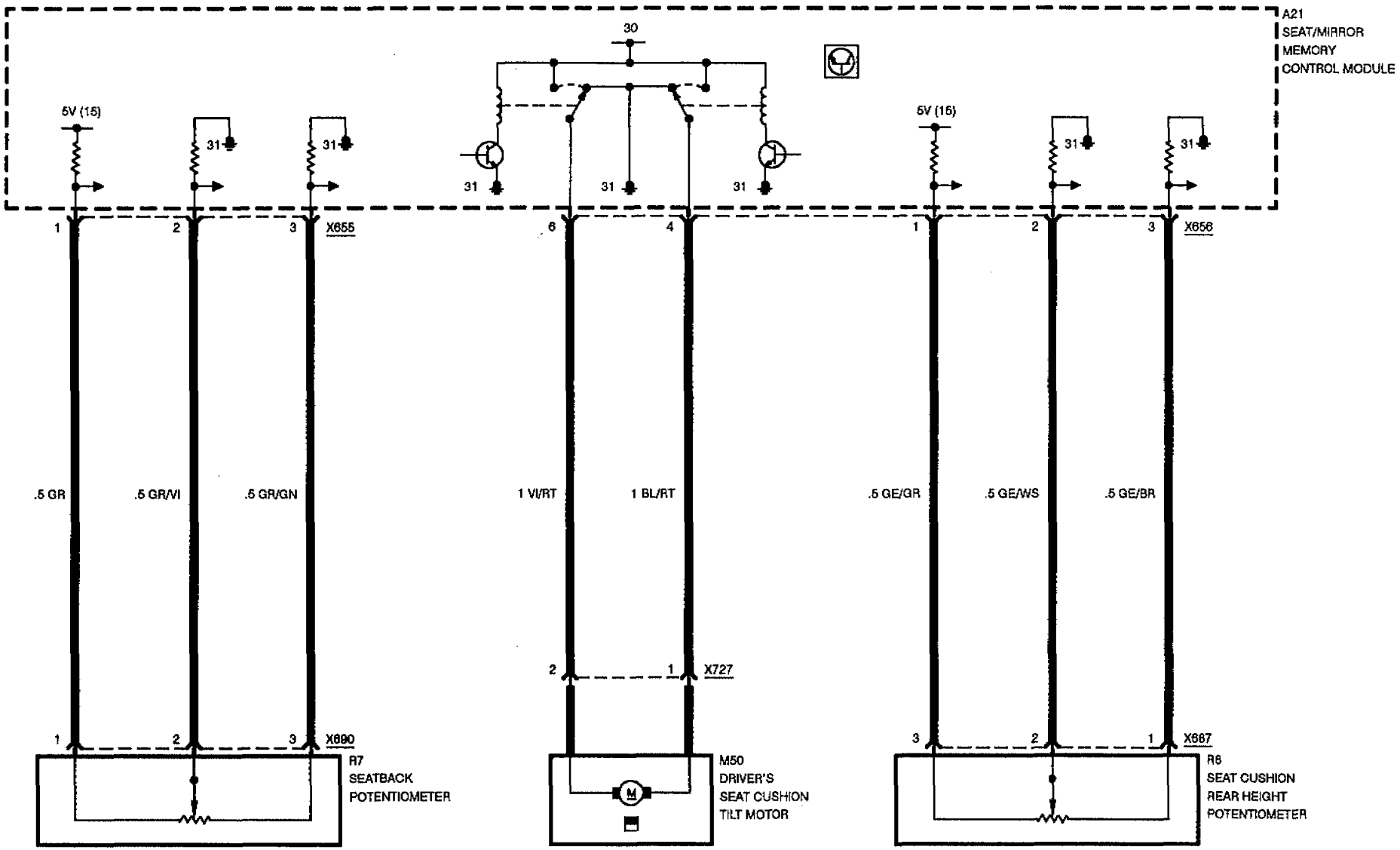
SEAT



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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

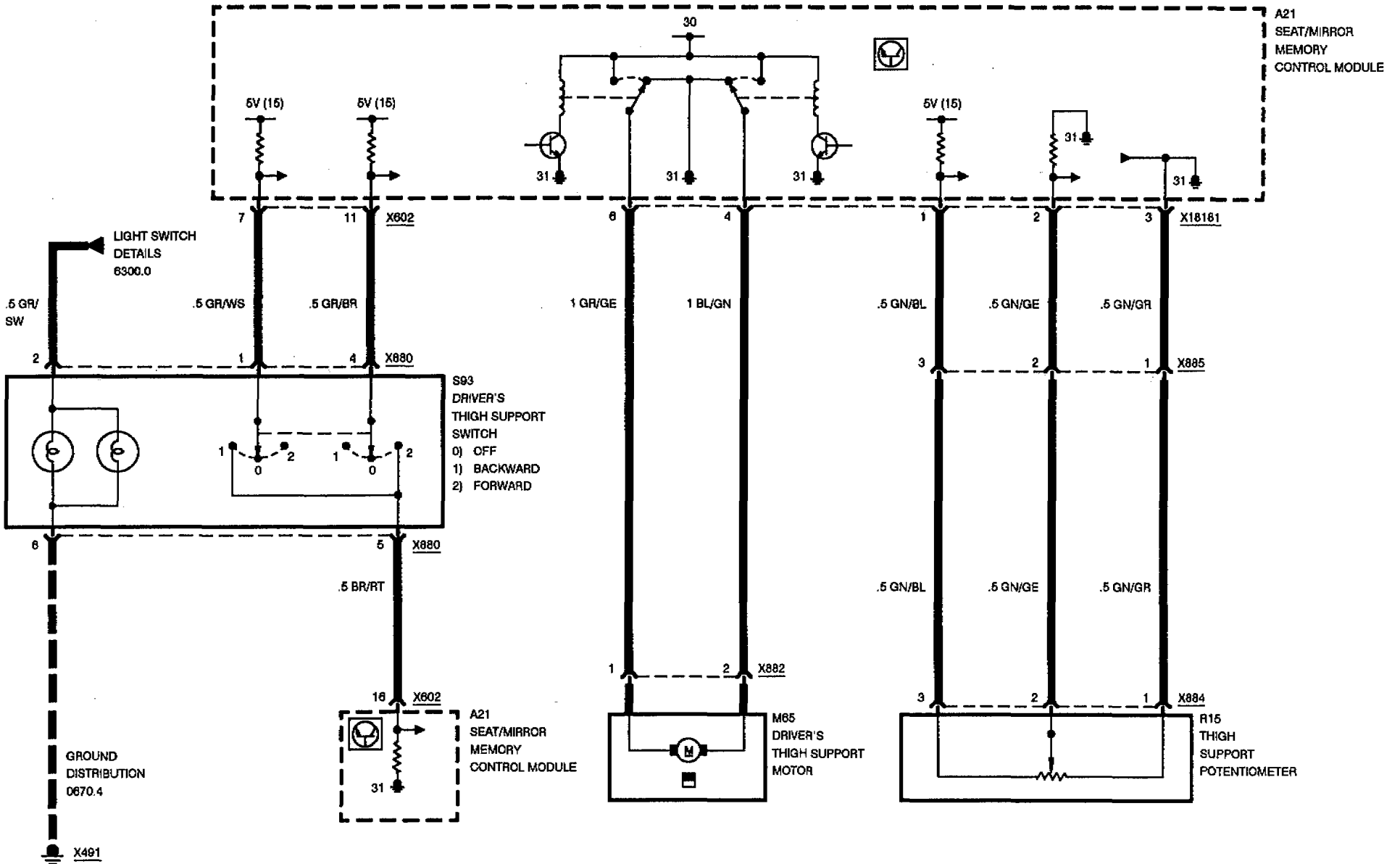
SEAT



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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

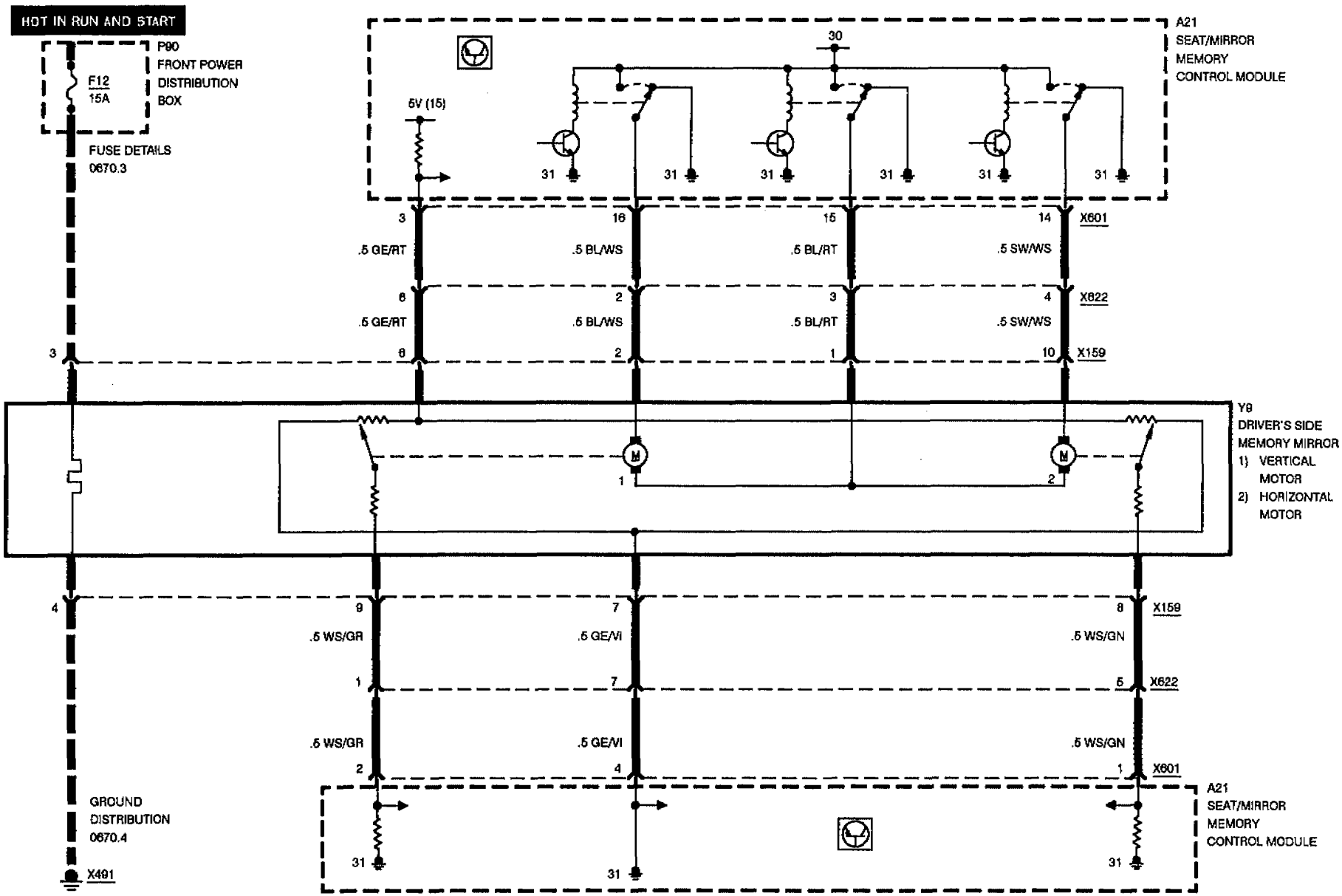
WITH SPORT SEAT



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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

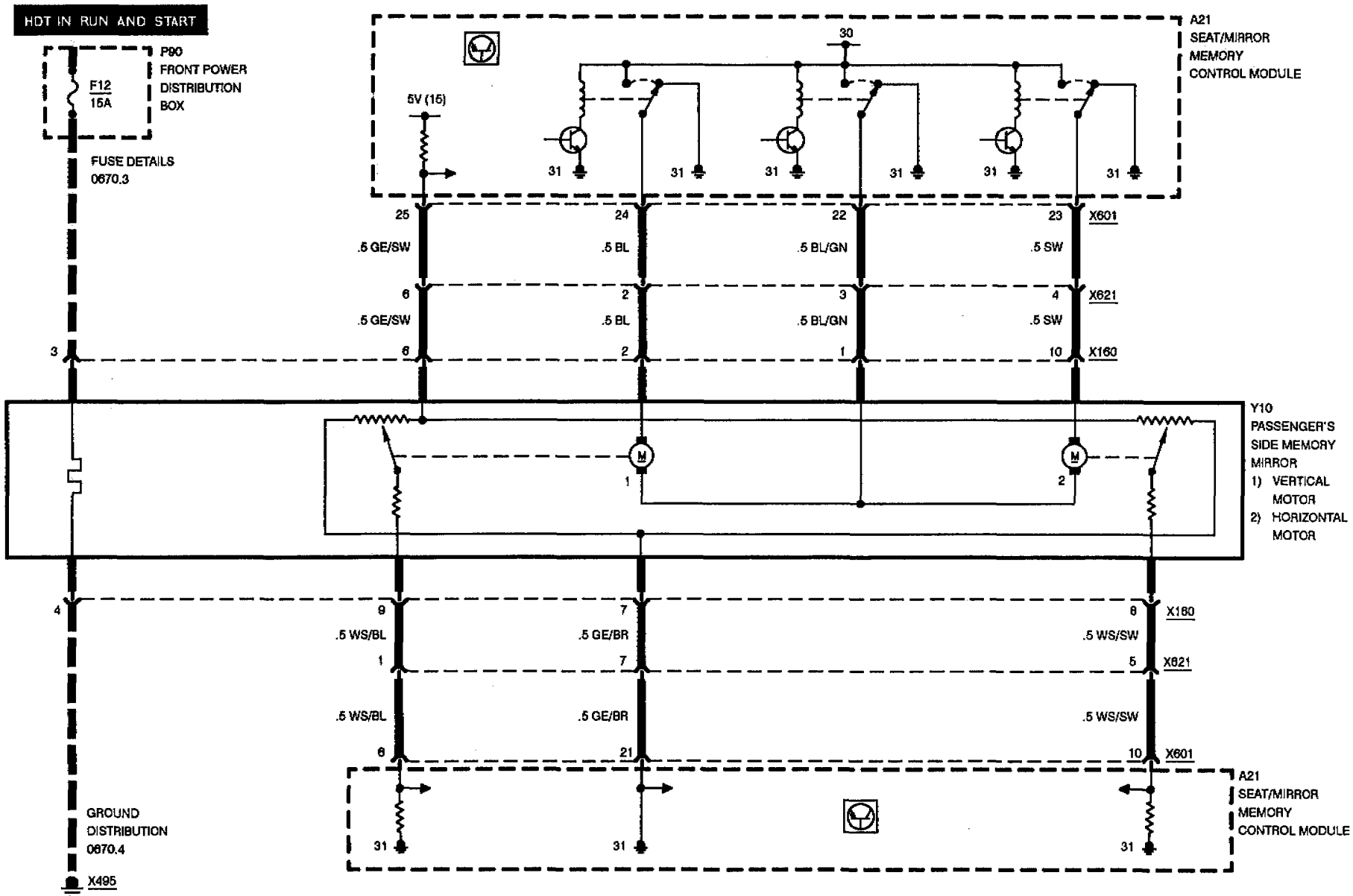
MIRROR



carplan.com

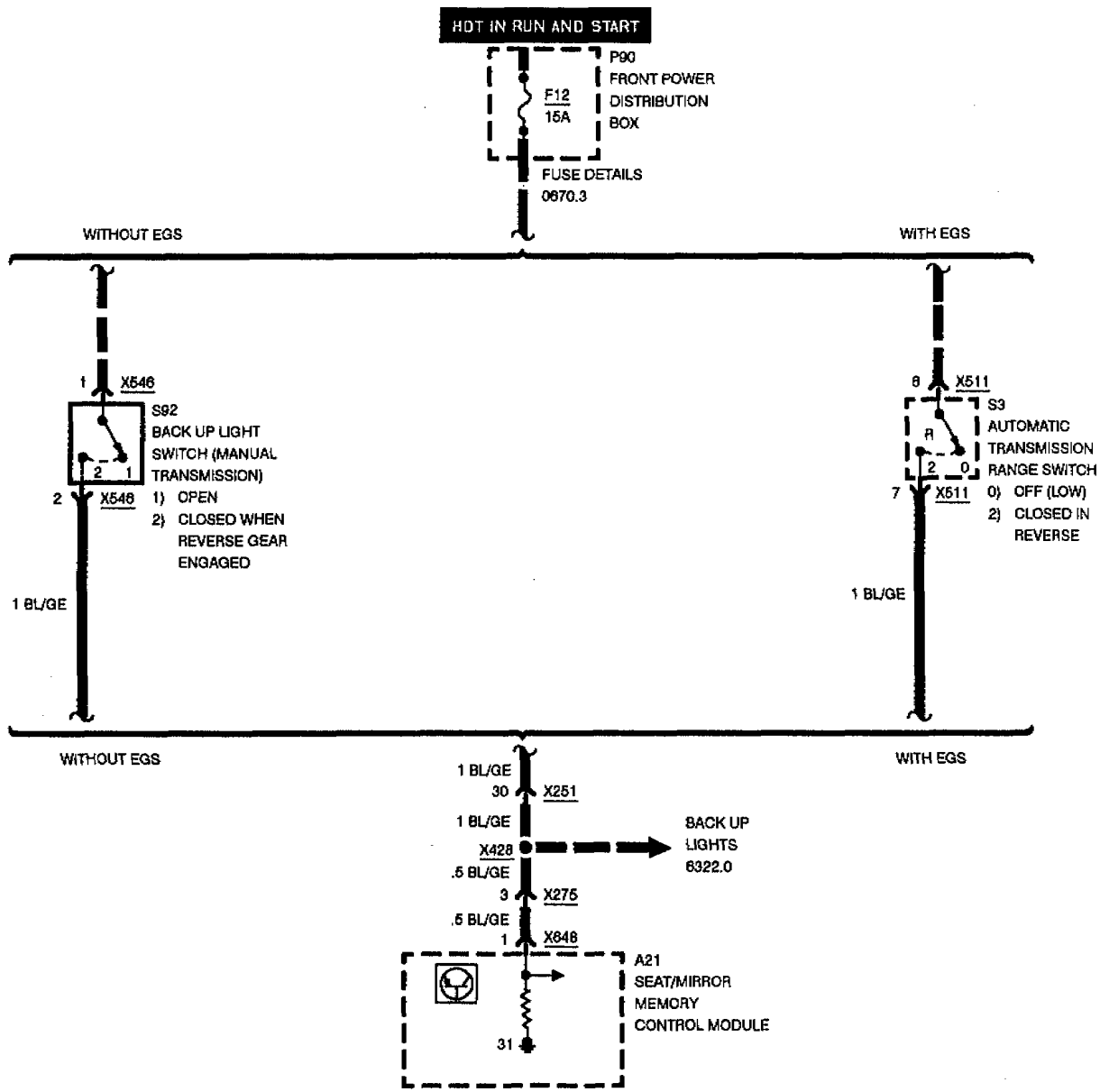
SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

MIRROR



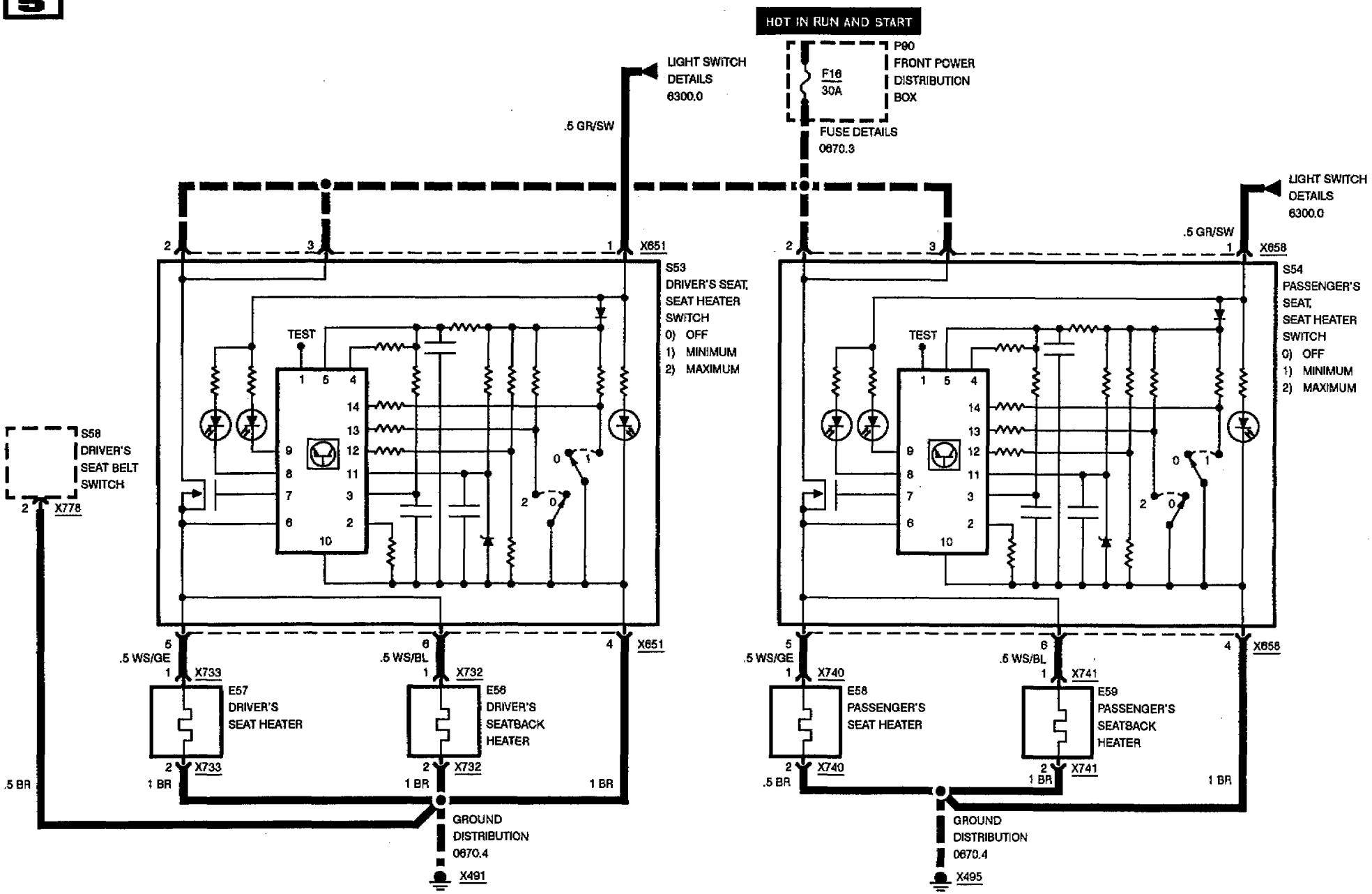
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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)



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HEATED SEATS

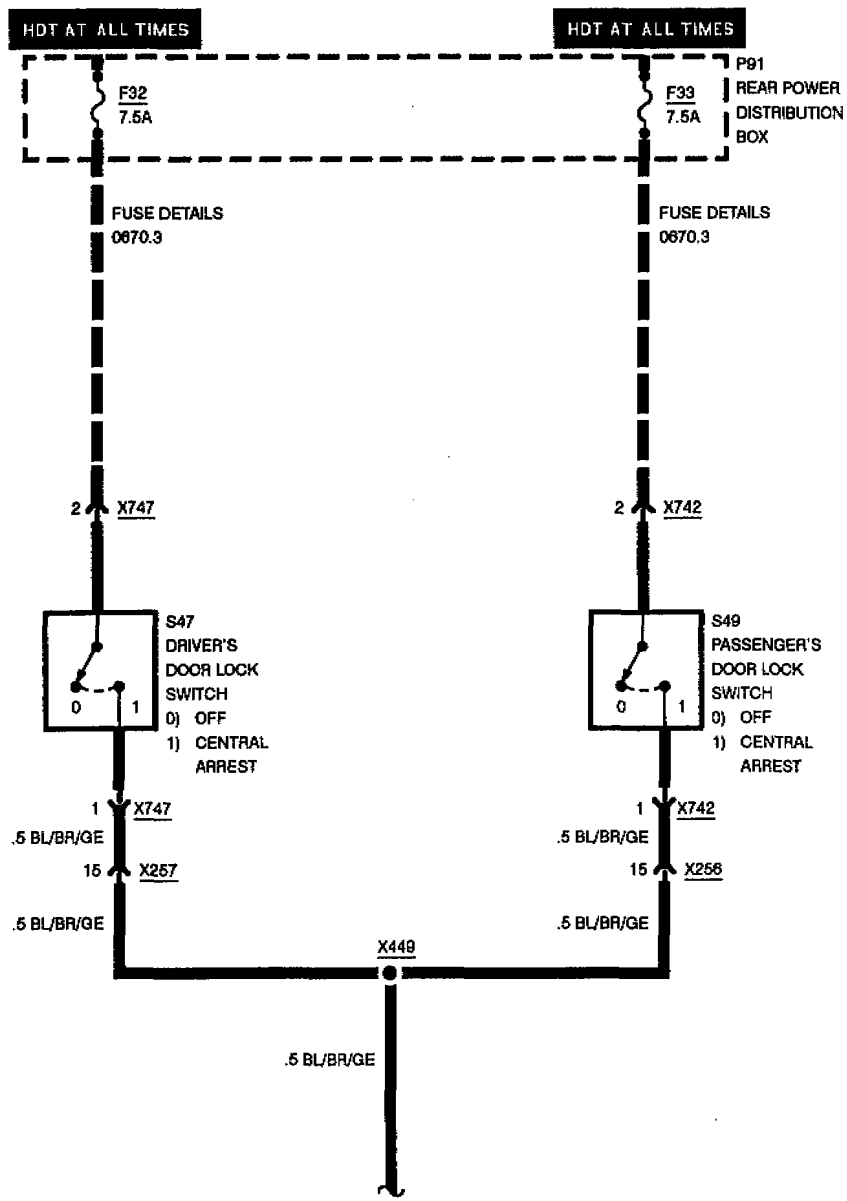


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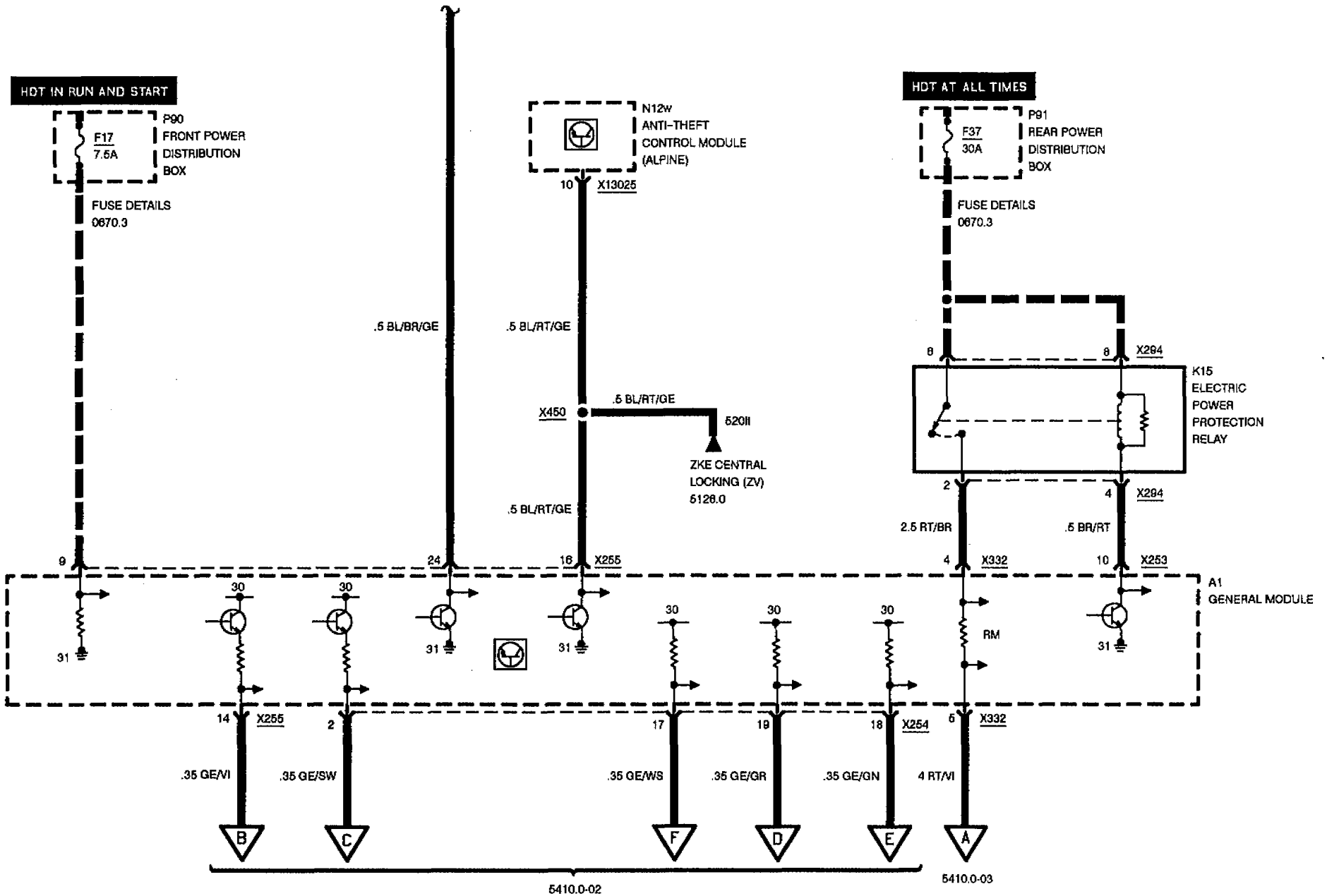
cardiagn.com

ZKE SUNROOF (SHD)

INPUT DETAILS



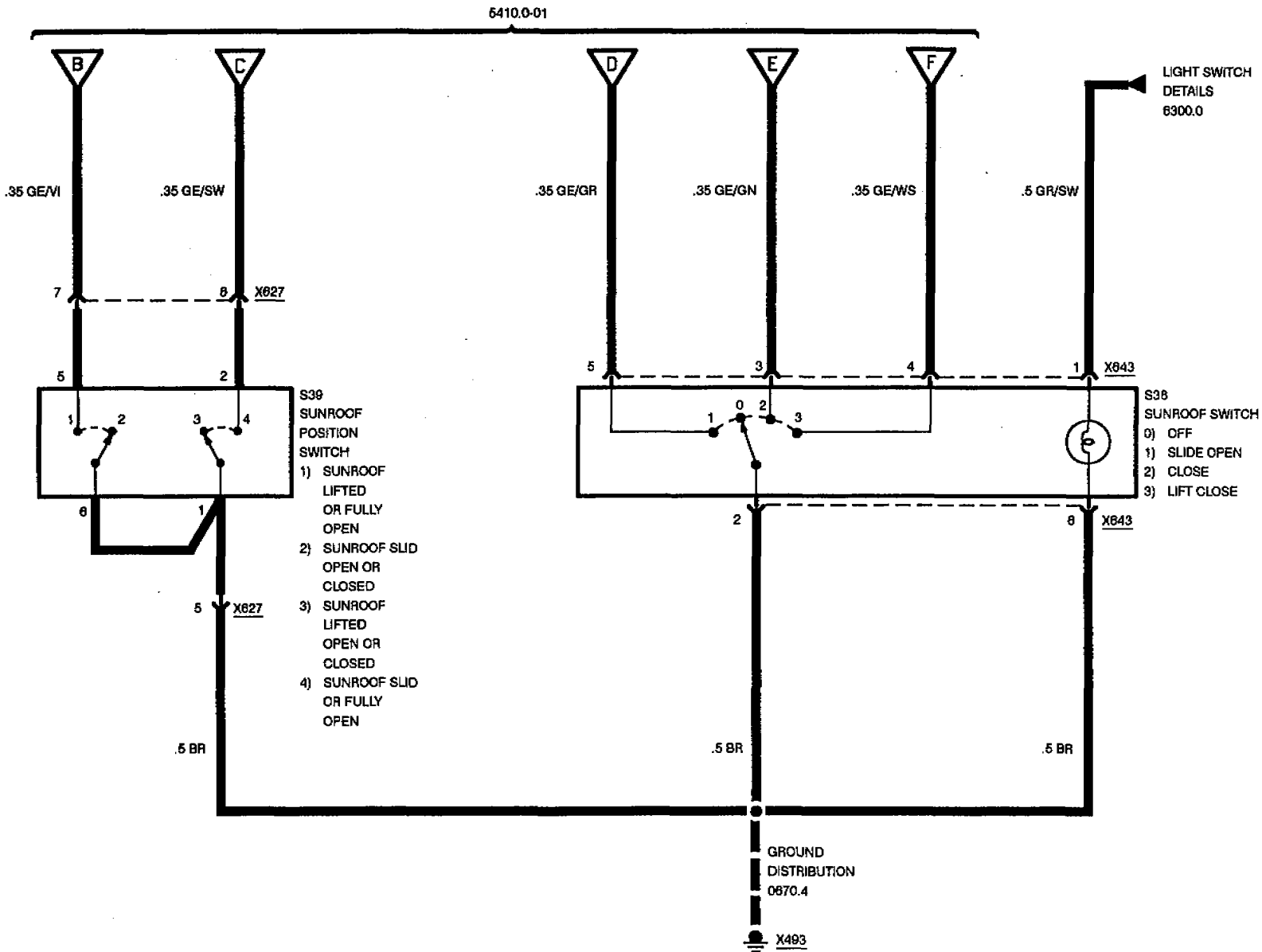
carplan.com


HOT IN RUN AND START
P90
FRONT POWER DISTRIBUTION BOX
F17
7.5A
FUSE DETAILS
0670.3
.5 BL/BR/GE
N12w
ANTI-THEFT CONTROL MODULE (ALPINE)
10
X13025
.5 BL/RT/GE
X450
.5 BL/RT/GE
520II
ZKE CENTRAL LOCKING (ZV)
5126.0
.5 BL/RT/GE
HOT AT ALL TIMES
P91
REAR POWER DISTRIBUTION BOX
F37
30A
FUSE DETAILS
0670.3
8
8
X294
K15
ELECTRIC POWER PROTECTION RELAY
2
4
X294
2.5 RT/BR
.5 BR/RT
9
24
16
X255
4
X332
10
X253
A1
GENERAL MODULE
30
30
30
30
30
30
31
31
31
31
RM
14
X255
2
17
19
18
X254
5
X332
.35 GE/VI
.35 GE/SW
.35 GE/WS
.35 GE/GR
.35 GE/GN
4 RT/VI
B
C
F
D
E
A
5410.0-02
5410.0-03

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ZKE SUNROOF (SHD)

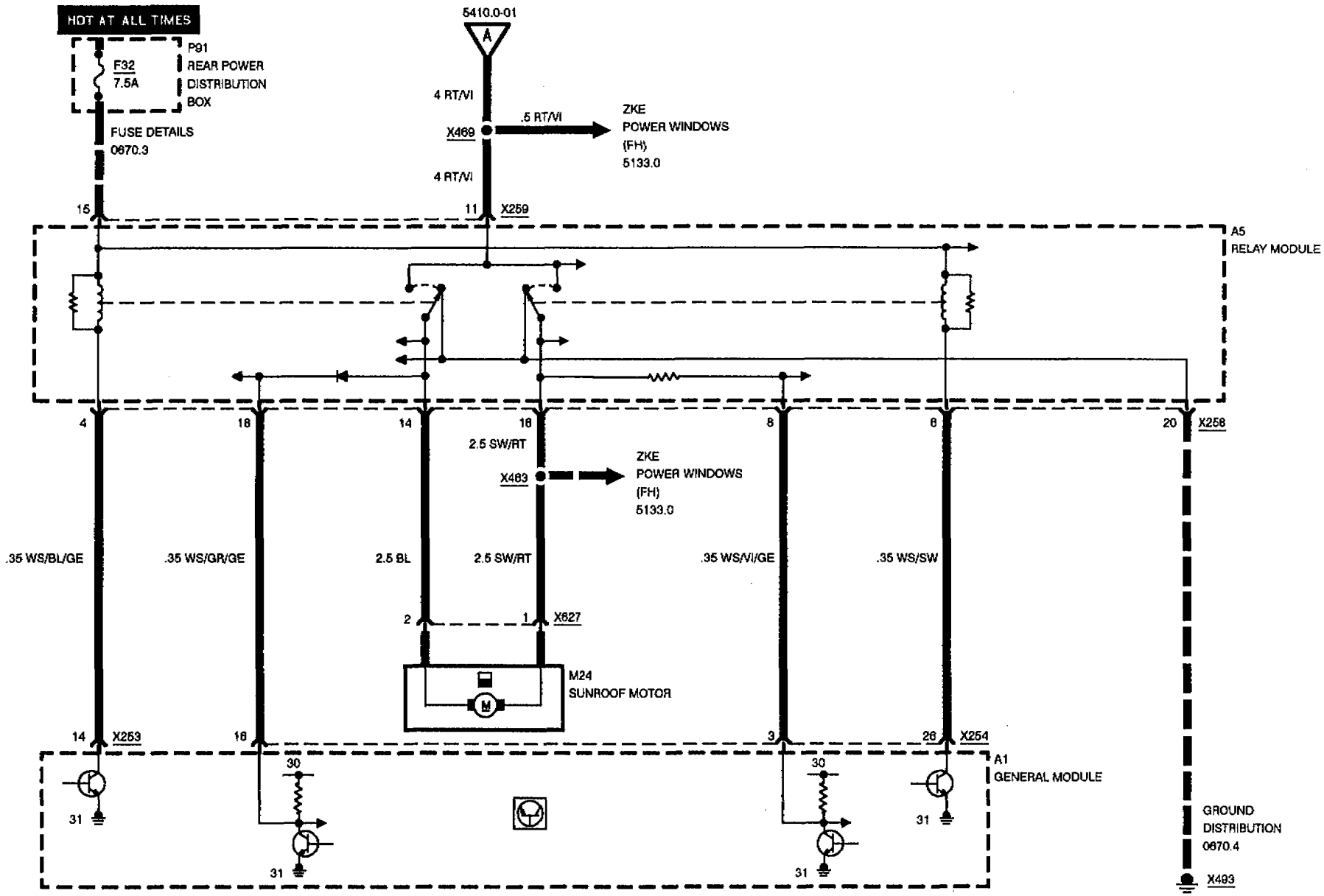
INPUT DETAILS



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ZKE SUNROOF (SHD)

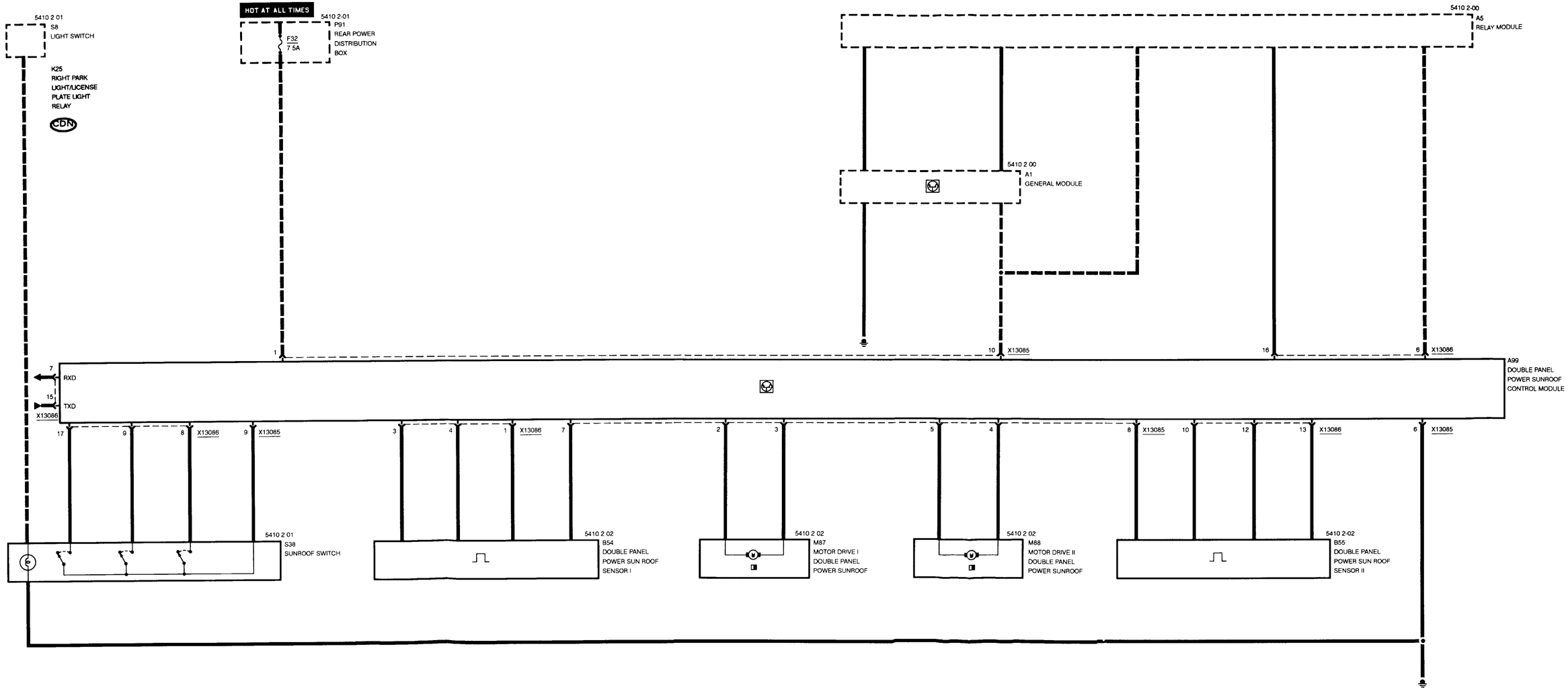
OUTPUT DETAILS



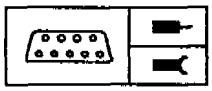
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12/93 5410 2 1993
12/93 5410 2 1993



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Pin Assignments

A = X13085	10 Pins
B = X13086	18 Pins

X13085

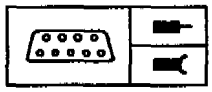
Pin	Type	Description/Function	Connect
1	E	Terminal 30, voltage supply	Rear power distribution box, fuse 32
2	E/A	Motor voltage/ground	Motor drive I double panel power sunroof
3	E/A	Motor voltage/ground	Motor drive I double panel power sunroof
4	E/A	Motor voltage/ground	Motor drive II double panel power sunroof
5	E/A	Motor voltage/ground	Motor drive II double panel power sunroof
6	M	Module ground	Ground point
7	A	Power	Contact, front roof
8	A	Power	Contact, rear roof
9	A	Power	Sunroof switch
10	E	Power	General module

X13086

Pin	Type	Description/Function	Connect
1	E	Position contact	Contact, front roof
2		Not used	
3	E	Position contact	Contact, front roof
4	E	Position contact	Contact, front roof
5		Not used	
6	E	Control signal	Relay module
7	E	RxD diagnostic data link	Data link connector
8	E	Switch, closed	Sunroof switch
9	E	Switch, closed	Sunroof switch
10	E	Position contact	Contact, rear roof
11		Not used	
12	E	Position contact	Contact, rear roof

E = Input, A = Output, M = Ground

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Pin Assignments

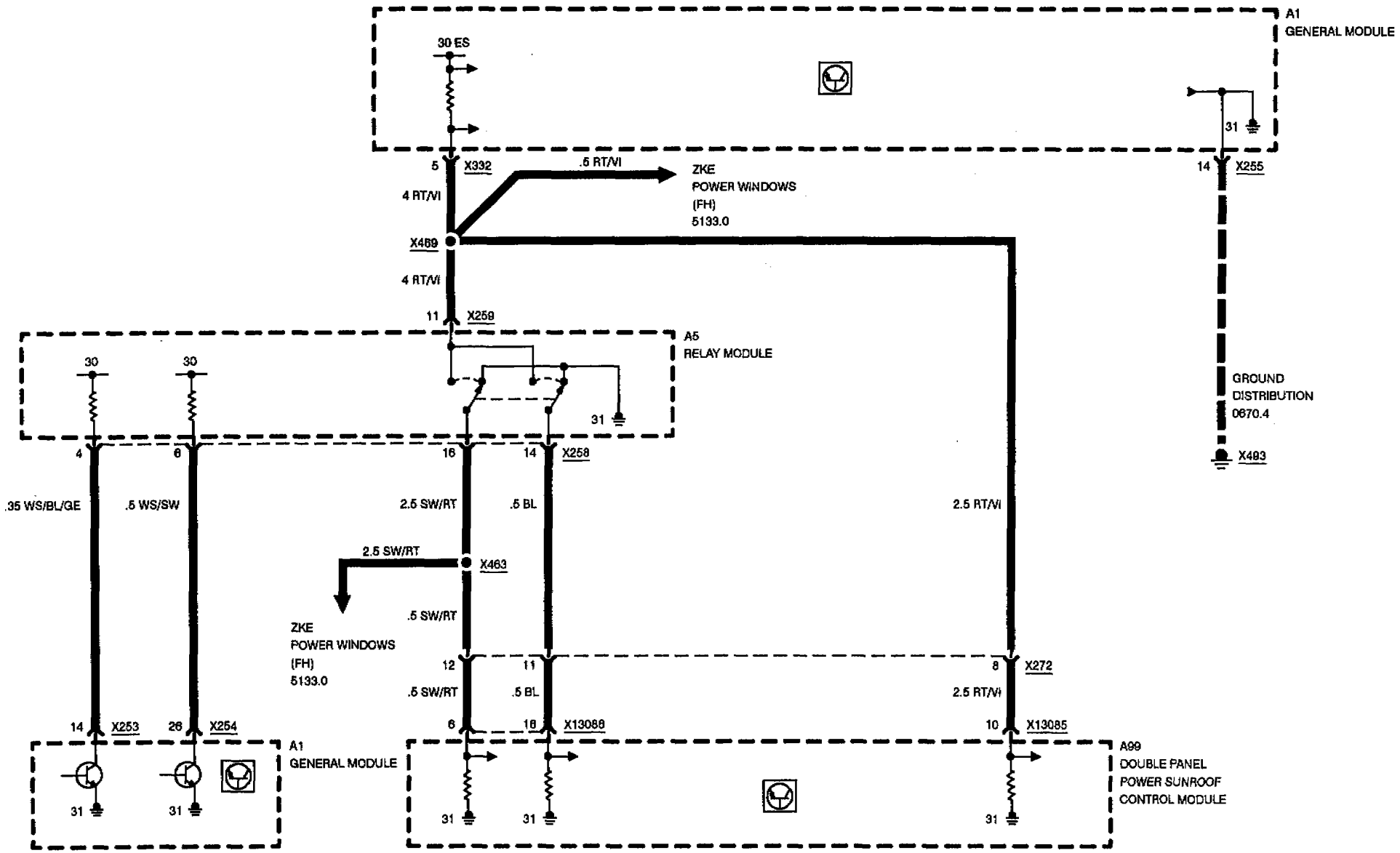
Pin	Type	Description/Function	Connect
13	E	Position contact	Contact, rear roof
14		Not used	
15	E/A	TxD diagnostic data link	Data link connector
16	E	MSD+	Relay module
17	E	Switch closed	Sunroof switch
18		Not used	

E = Input, A = Output, M = Ground

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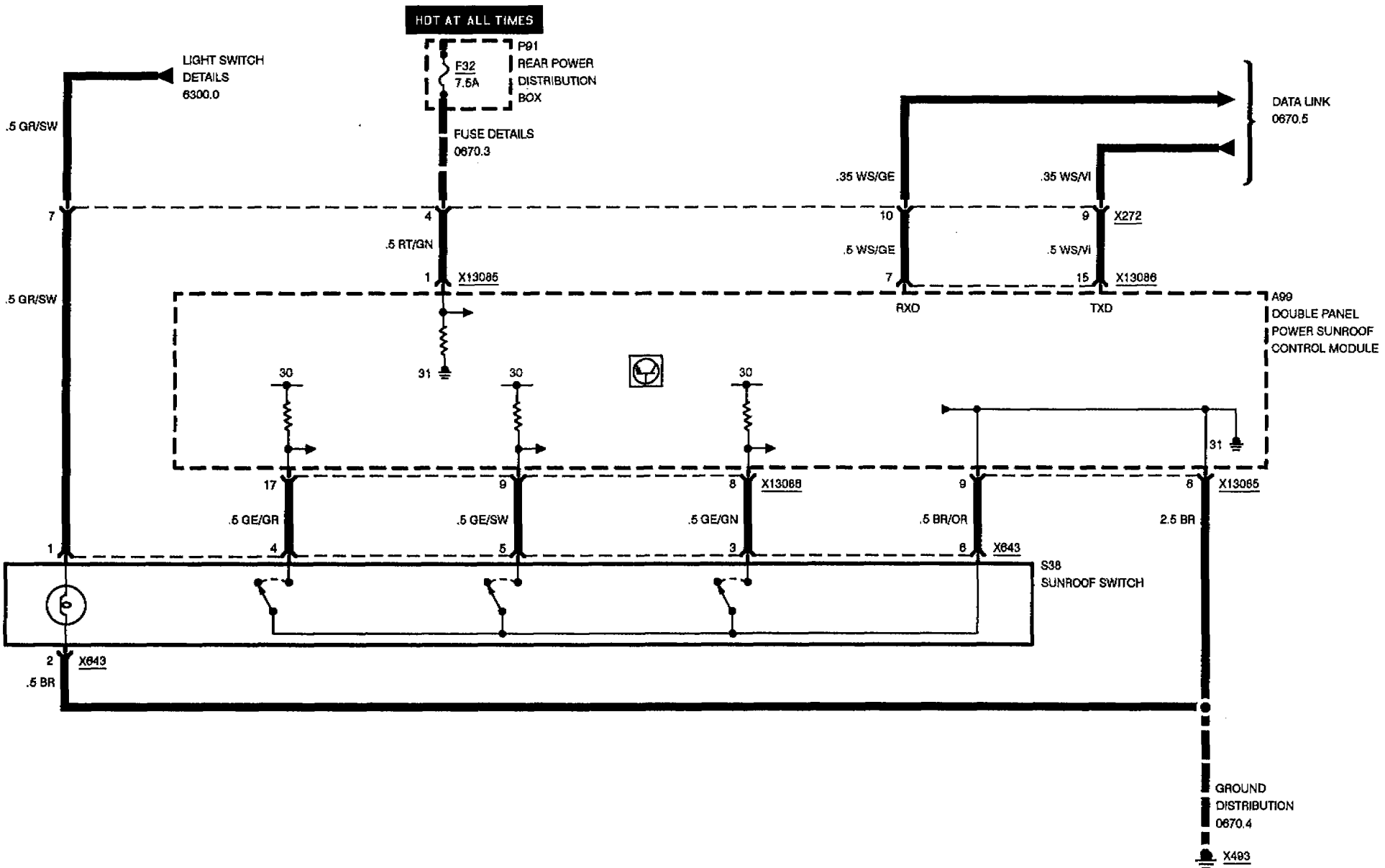
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DOUBLE PANEL POWER SUNROOF (ZKE)



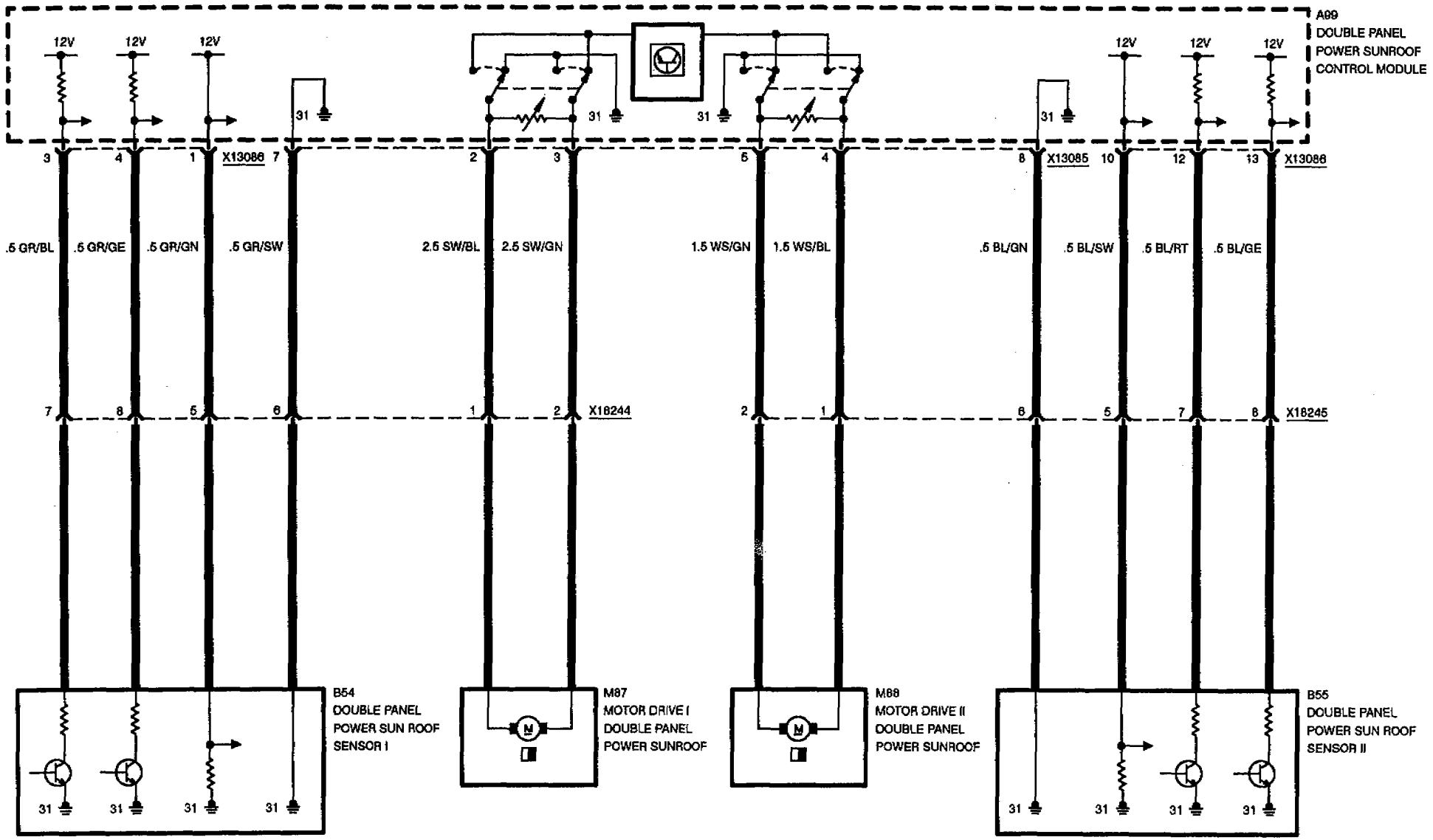
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DOUBLE PANEL POWER SUNROOF (ZKE)



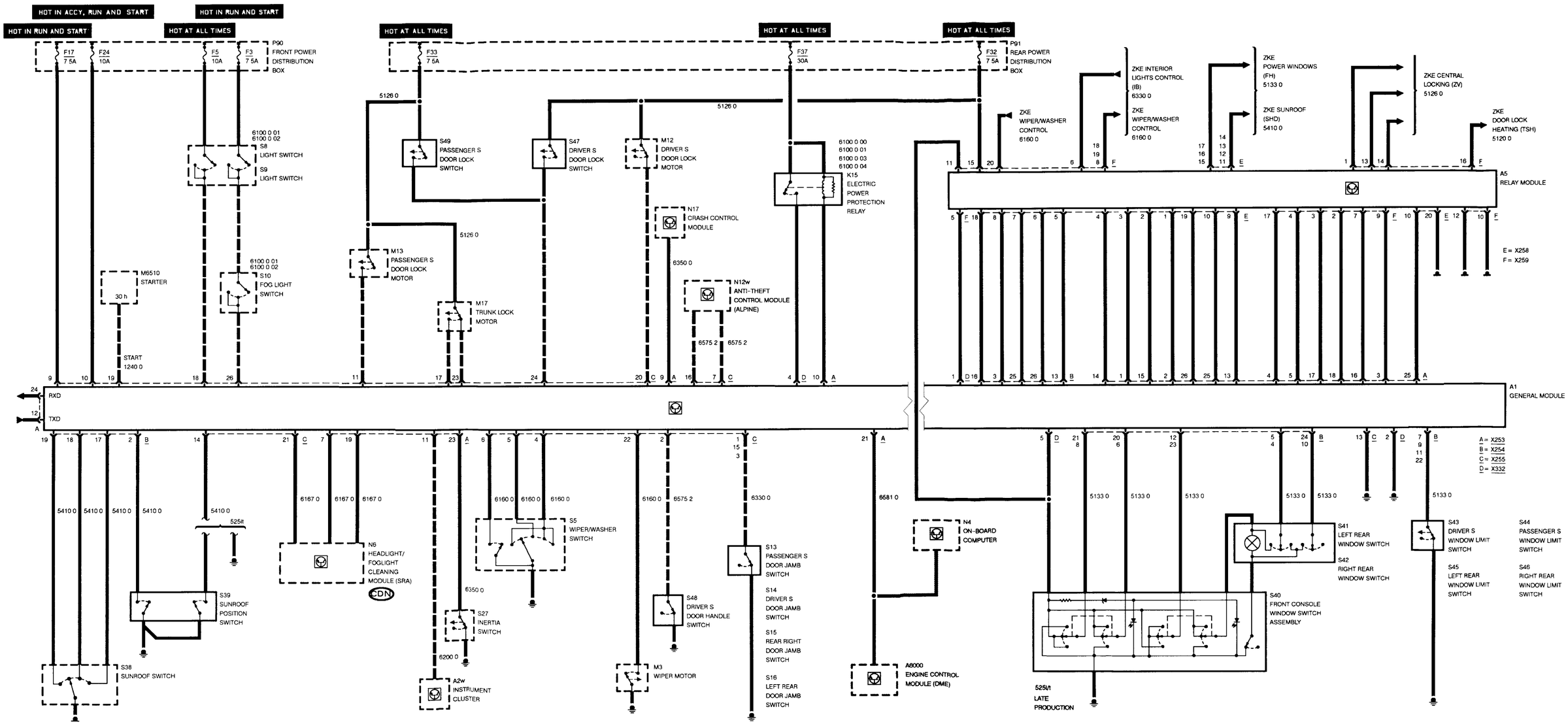
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DOUBLE PANEL POWER SUNROOF (ZKE)

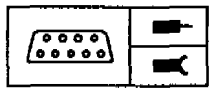


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12/93 6100 0 1993
12/93 6100 0 1993



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Pin Assignments

A=X253	26 Pins, green
B=X254	26 Pins, white
C=X255	26 Pins, yellow
D=X332	5 Pins, white
E=X258	20 Pins, black
F=X259	20 Pins, white

X253

Pin	Type	Description/Function	Connection
1	A	Passenger's window motor control	Relay module
2	A	Passenger's window motor control	Relay module
3	A	Wiper motor control	Relay module
4	A	Door lock heater control	Relay module
5	A	Lock motors control	Relay module
6		Not used	
7	A	Light cleaning control	Headlight/front fog light cleaning system module (SRA)
8		Not used	
9	A	Crash information	Crash control module
10	A	Electric power control protection relay control	Electric power protection relay, terminal 85
11	E	Vehicle speed signal	Instrument cluster
12	E/A	TxD diagnostic data link	Data link connector
13	E	Data line	Relay module
14	A	Sunroof motor control	Relay module
15	A	Passenger's and right rear window motor control	Relay module
16	A	Interior lights control	Relay module
17	A	Lock motors control (close)	Relay module
18	A	Lock motors control (open)	Relay module
19	A	Light cleaning control	Headlight/front fog light cleaning system module (SRA)

E = Input, A = Output, M = Ground

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Pin Assignments

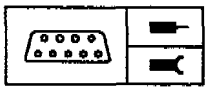
Pin	Type	Description/Function	Connection
20		Not used	
21	A	Drive away protection	Engine control module (DME): Late Production (525i/t)
22		Not used	
23	E	Crash signal	Inertia switch
24	E	RxD diagnostic data link	Data link connector
25	E	Data line	Relay module
26	E	Data line	Relay module

X254

Pin	Type	Description/Function	Connection
1		Not used	
2	E	Sunroof position signal	Sunroof position switch
3	E	Data line (window and sunroof motors position)	Relay module
4	E	Open right rear window signal (switch)	Right rear window switch
5	E	Open left rear window signal (switch)	Left rear window switch
6	E	Open passenger's window signal (switch)	Front console window switch assembly
7	E	Left rear window open signal (position)	Left rear window limit switch
8	E	Close passenger's window signal (switch)	Front console window switch assembly
9	E	Passenger's window open signal (position)	Passenger's window limit switch
10	E	Close right rear window signal (switch)	Right rear window switch
11	E	Driver's window open signal (position)	Driver's window limit switch
12	E	Close left rear window signal (switch)	Front console window switch assembly
13	A	Left rear window motor control	Relay module
14		Not used	
15		Not used	
16	E	Data line (window and sunroof motors position)	Relay module
17	E	Close sunroof lift signal	Sunroof switch
18	E	Close sunroof signal	Sunroof switch

E = Input, A = Output, M = Ground

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Pin Assignments

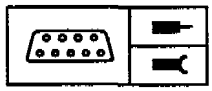
Pin	Type	Description/Function	Connection
19	E	Open sunroof slide signal	Sunroof switch
20	E	Open driver's window signal (switch)	Front console window switch assembly
21	E	Close driver's window signal (switch)	Front console window switch assembly
22	E	Right rear window open signal (position)	Right rear window limit switch
23	E	Close right rear window signal (switch)	Front console window switch assembly
24	E	Close left rear window signal (switch)	Left rear window switch
25	A	Driver's window motor control	Relay module
26	A	Driver's and left rear window control/sunroof motor control	Relay module

X255

Pin	Type	Description/Function	Connection
1	E	Passenger's door open signal	Passenger's door jamb switch
2	E	Driver's door handle lifted signal	Driver's door handle switch
3	E	Rear doors open signal	Rear door jamb switches
4	E	Standard wiper signal	Wiper/washer switch
5	E	Interval wiper signal	Wiper/washer switch
6	E	Wash signal	Wiper/washer switch
7	E	Anti-theft system control module (Alpine)	Anti-theft system control module (Alpine)
8		Not used	
9	E	Voltage supply, terminal 15	Front power distribution box
10	E	Voltage supply, terminal R	Front power distribution box
11	E	Passenger's door lock motor locked	Passenger's door lock motor
12		Not used	
13	M	Ground	Ground point
14	E M	Sunroof position signal Ground (525it)	Sunroof position switch Ground point
15	E	Driver's door open signal	Driver's door jamb switch
16	E	Anti-theft system control module (Alpine)	Anti-theft system control module (Alpine)
17	E	Unlock door lock motors signal	Trunk lock motor
18	E	Park or headlights ON signal	Light switch

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
19	E	Starter, terminal 30h	Starter
20	E	Driver's door lock motor locked	Door lock motor
21	E	Data line	Headlight/front fog light cleaning system module (SRA)
22	E	Wipers not in park signal	Wiper motor
23	E	Unlock trunk lock motor signal	Trunk lock motor
24	E	Lock front doors signal	Front door lock switches
25		Not used	
26	E	Front or rear fog lights ON signal	Fog light switch

X332

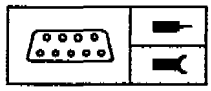
Pin	Type	Description/Function	Connection
1	E	Power for electronics	Relay module
2	M	Ground	Ground point
3		Not used	
4	E	Power input	Electric power protection relay, terminal 87
5	E	Power for elctronics	Relay module, front console window switch assembly

X258

Pin	Type	Description/Function	Connection
1	E	Right rear window motor control	General module
2	E	Passenger's and right rear window motor control	General module
3	E	Passenger's window motor control	General module
4	E	Sunroof motor control	General module
5	E	Left rear window motor control	General module
6	E	Driver's and left rear window motor control/ sunroof motor control	General module
7	E	Driver's window motor control	General module

E = Input, A = Output, M = Ground

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Pin Assignments

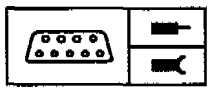
Pin	Type	Description/Function	Connection
8	A	Data line (window and sunroof motors position)	General module
9	A	Data line	General module
10	A	Data line	General module
11	A	Right rear window motor power/ground supply	Right rear window motor
12	A	Passenger's and right rear window motor power/ground supply	Right rear window motor
13	A	Passenger's window motor power/ground supply	Passenger's window motor
14	A	Sunroof motor power/ground supply	Sunroof motor
15	A	Left rear window motor power/ground supply	Left rear window motor
16	A	Driver's window motor, left rear window motor, and sunroof motor power/ground supply	Driver's and left rear window motors/sunroof motor
17	A	Driver's window motor power/ground supply	Driver's window motor
18	A	Data line (window and sunroof motors position)	General module
19	A	Data line	General module
20	M	Ground	Ground point

X259

Pin	Type	Description/Function	Connection
1	A	Lock motors voltage/ground supply	Door lock motors
2	E	Lock motors control (open)	General module
3	E	Lock motors control (close)	General module
4	E	Lock motors control	General module
5	A	Power output	General module
6	A	Interior lights ground supply (Automatic)	Interior lights
7	E	Interior lights control	General module
8	E	Fast wiper speed signal	Wiper/washer switch
9	E	Wiper motor control	General module

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
10	M	Ground	Ground point
11	E	Power input	General module
12	M	Ground	Ground point
13	A	Lock motors voltage/ground supply	Door lock motors
14	A	Central locking voltage/ground supply	Door lock motors
15	E	Voltage supply, terminal 30	Rear power distribution box
16	A	Door lock heater voltage supply	Door lock heater
17	E	Door lock heater control	General module
18	A	Wiper motor voltage supply (slow)	Wiper motor
19	A	Wiper motor voltage supply (fast)	Wiper motor
20	E	Power input	Wiper relay

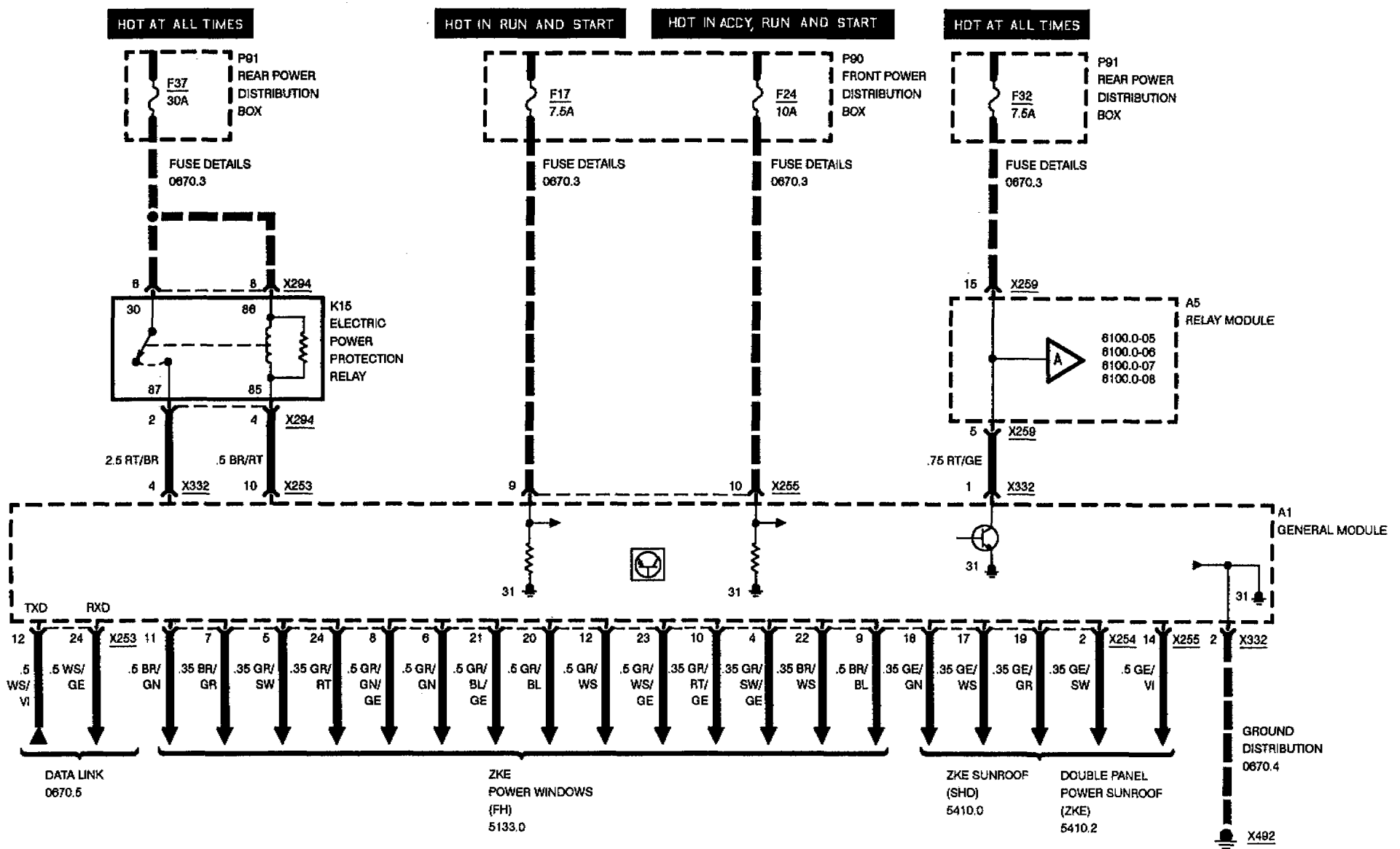
E = Input, A = Output, M = Ground

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CENTRAL BODY ELECTRONICS (ZKE)

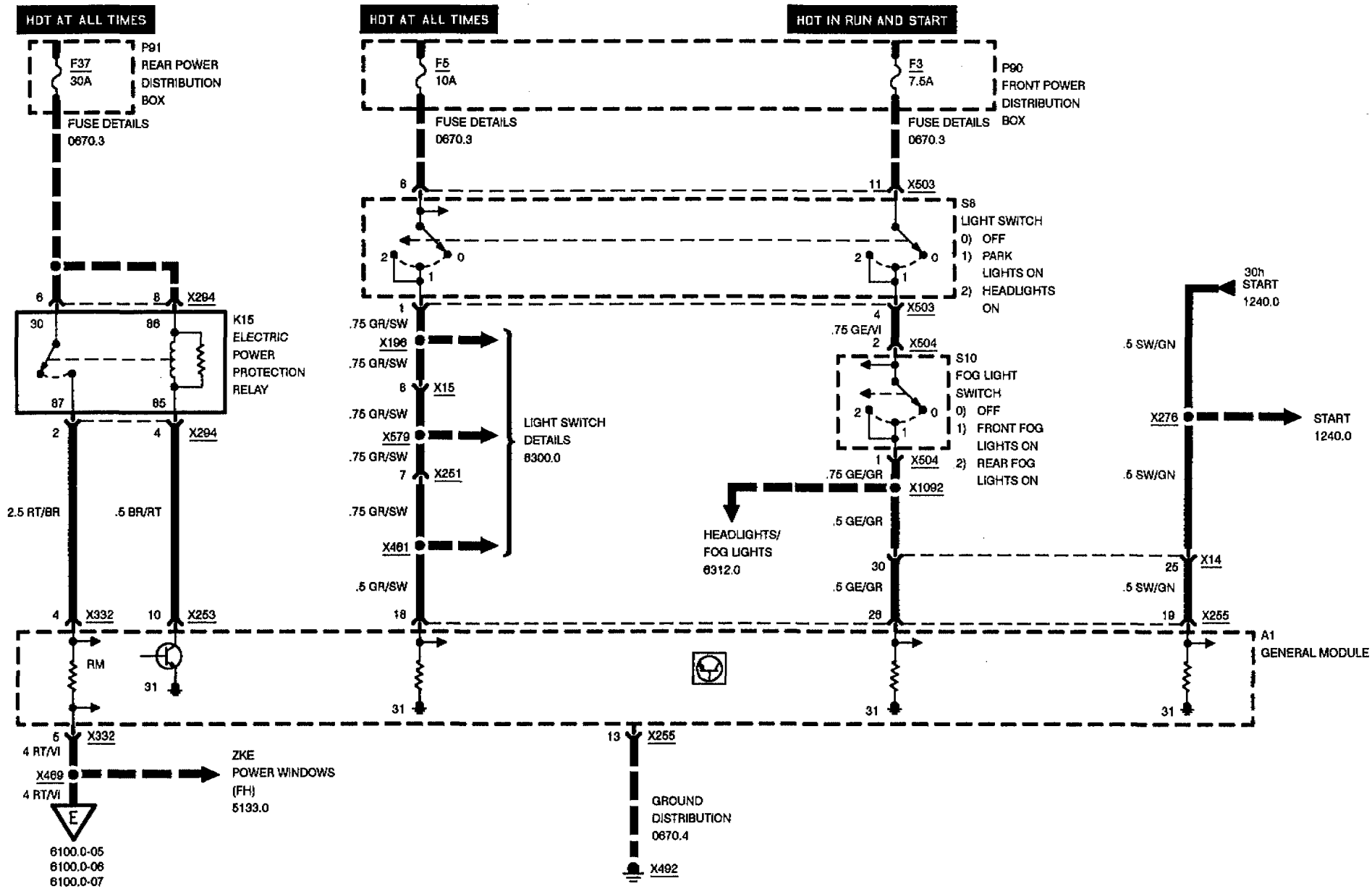
GENERAL MODULE



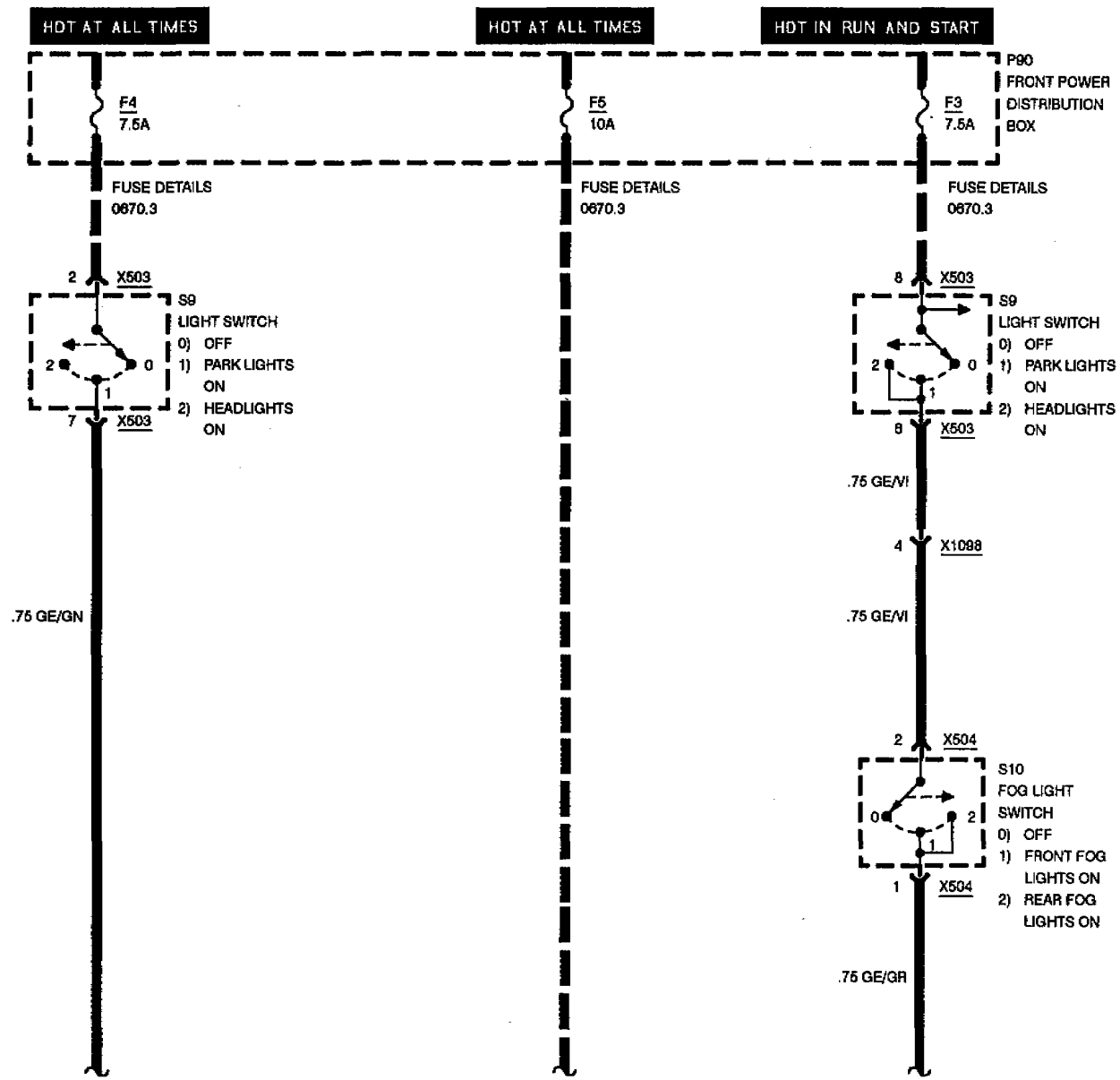
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CENTRAL BODY ELECTRONICS (ZKE)

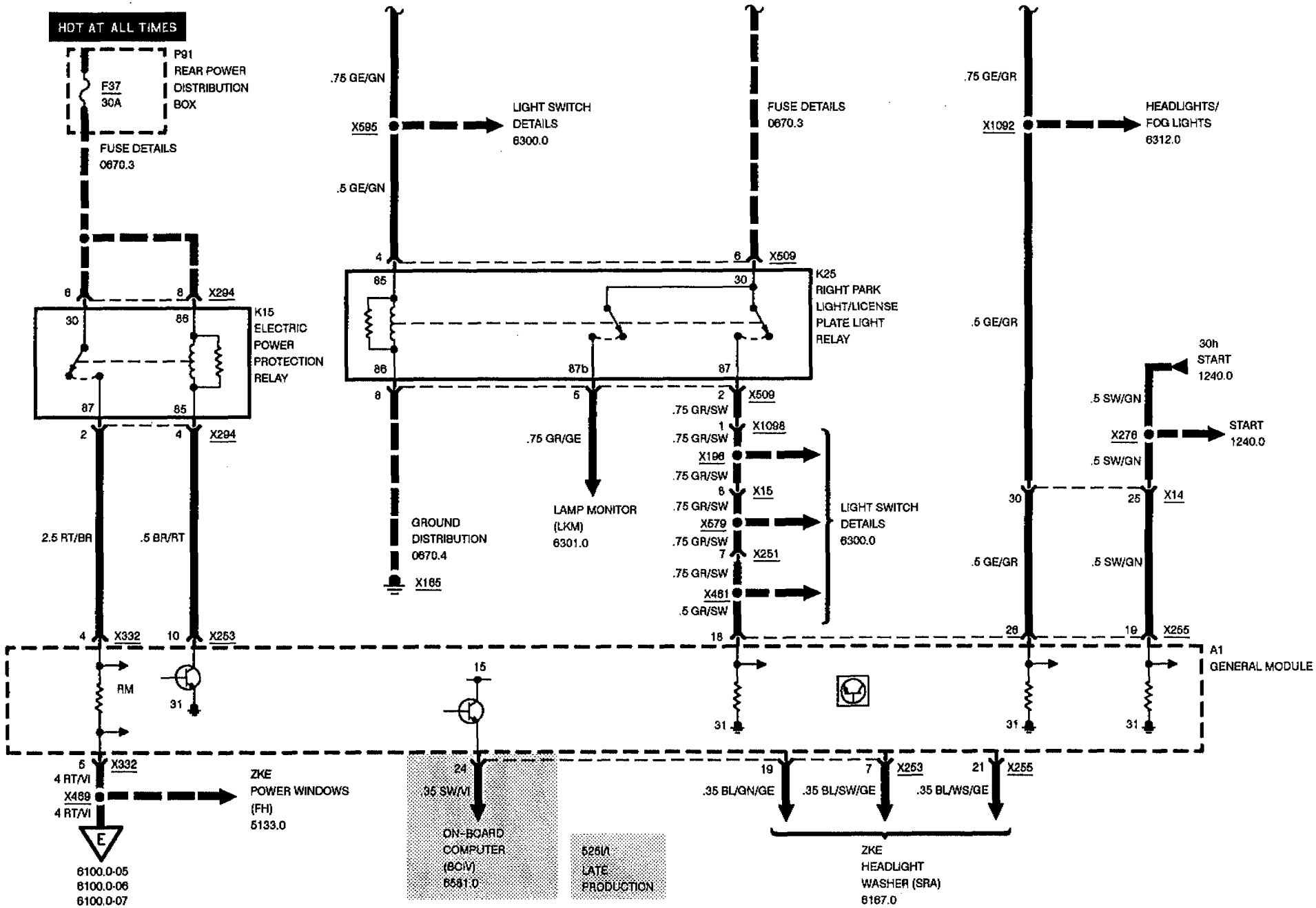
GENERAL MODULE



carplan.com



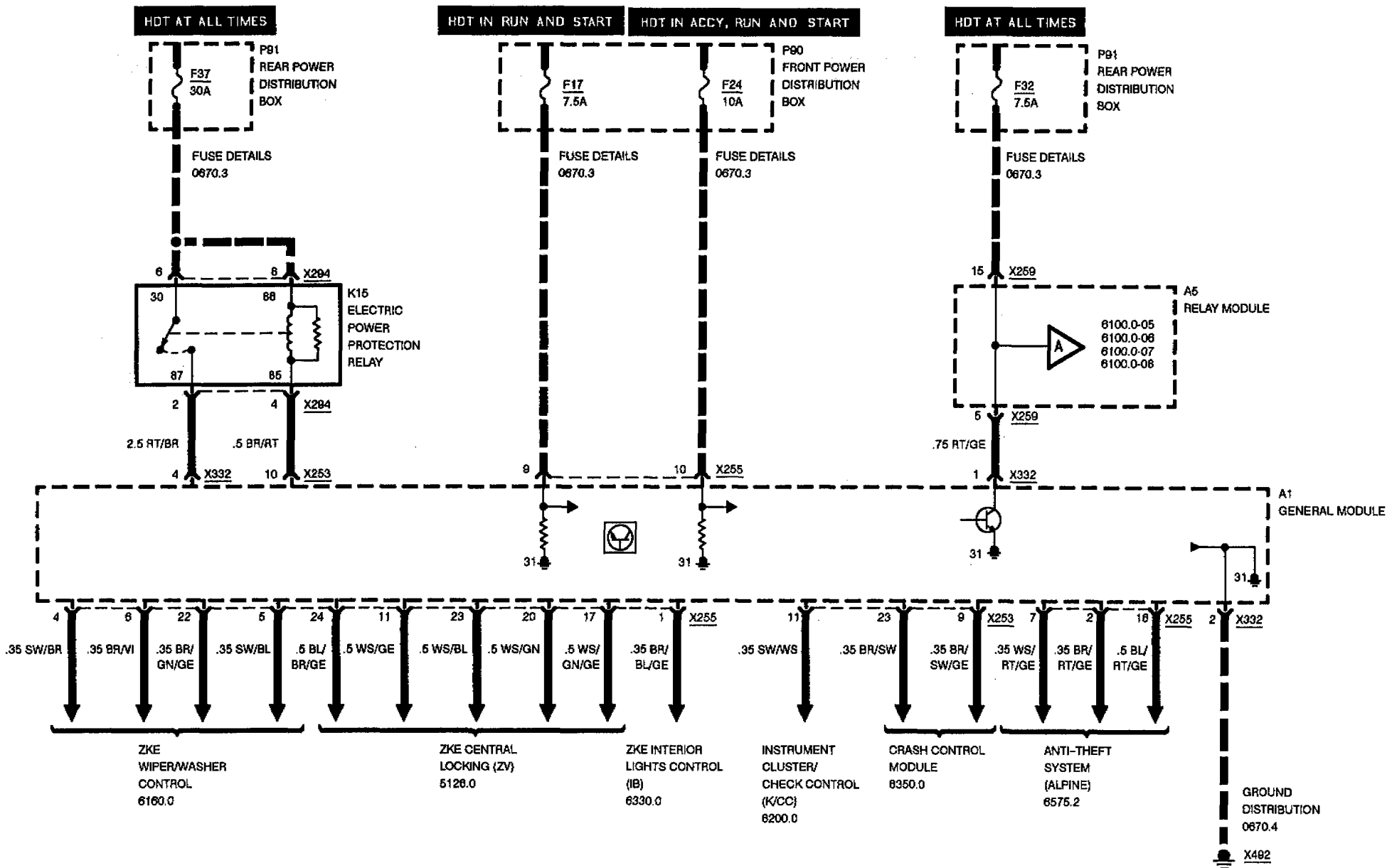
cardiagn.com



cardiagn.com

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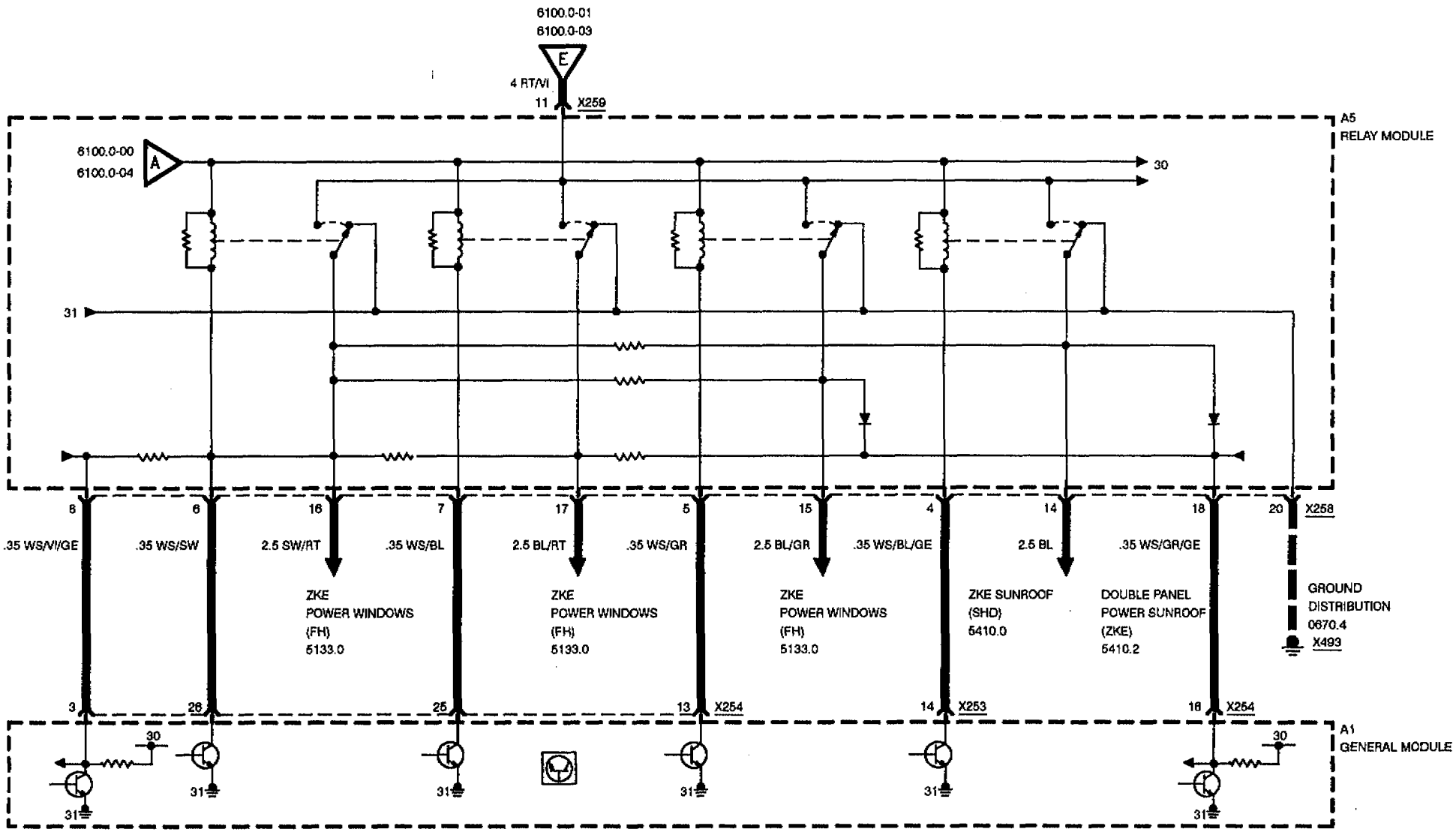
GENERAL MODULE



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CENTRAL BODY ELECTRONICS (ZKE)

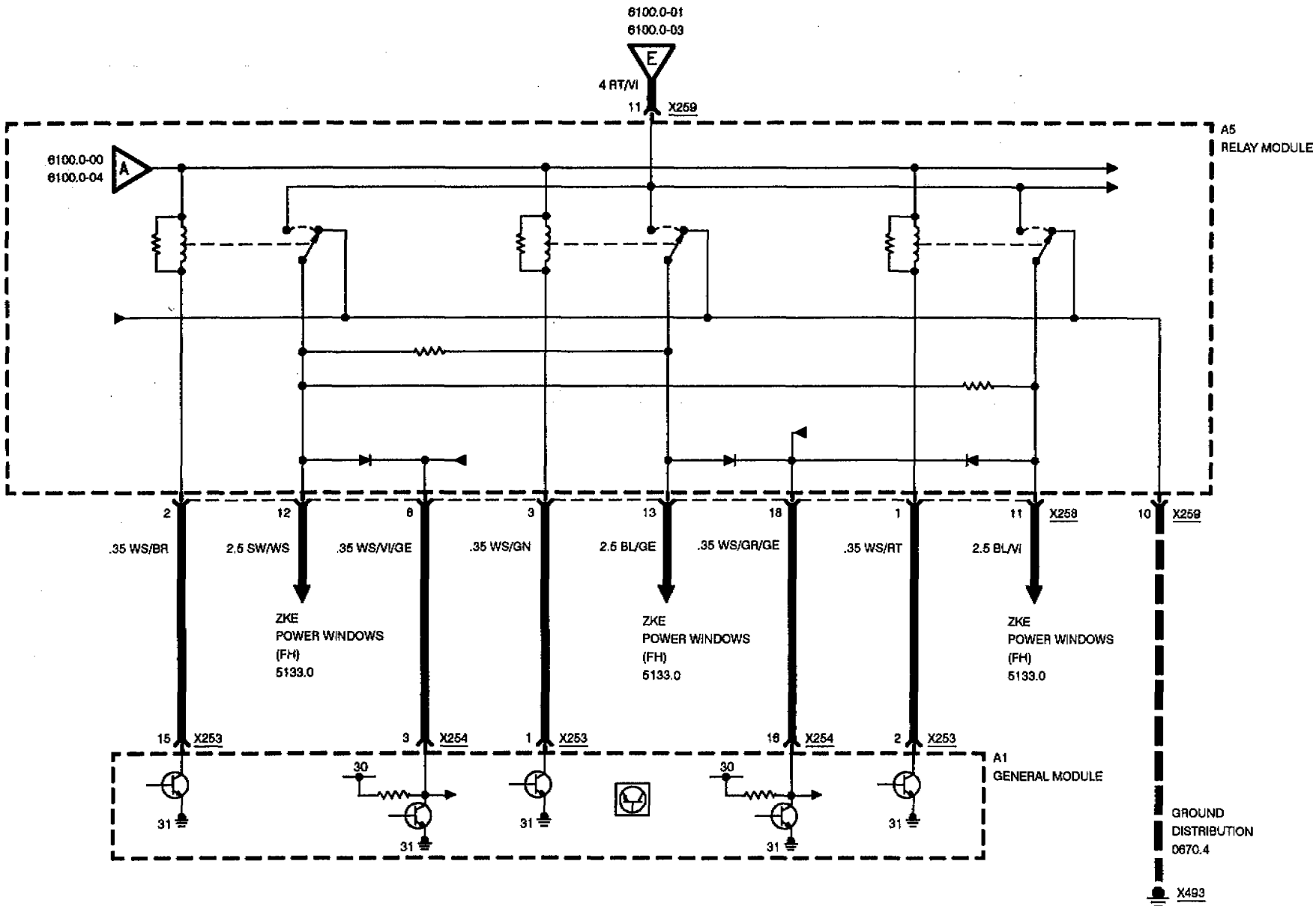
RELAY MODULE



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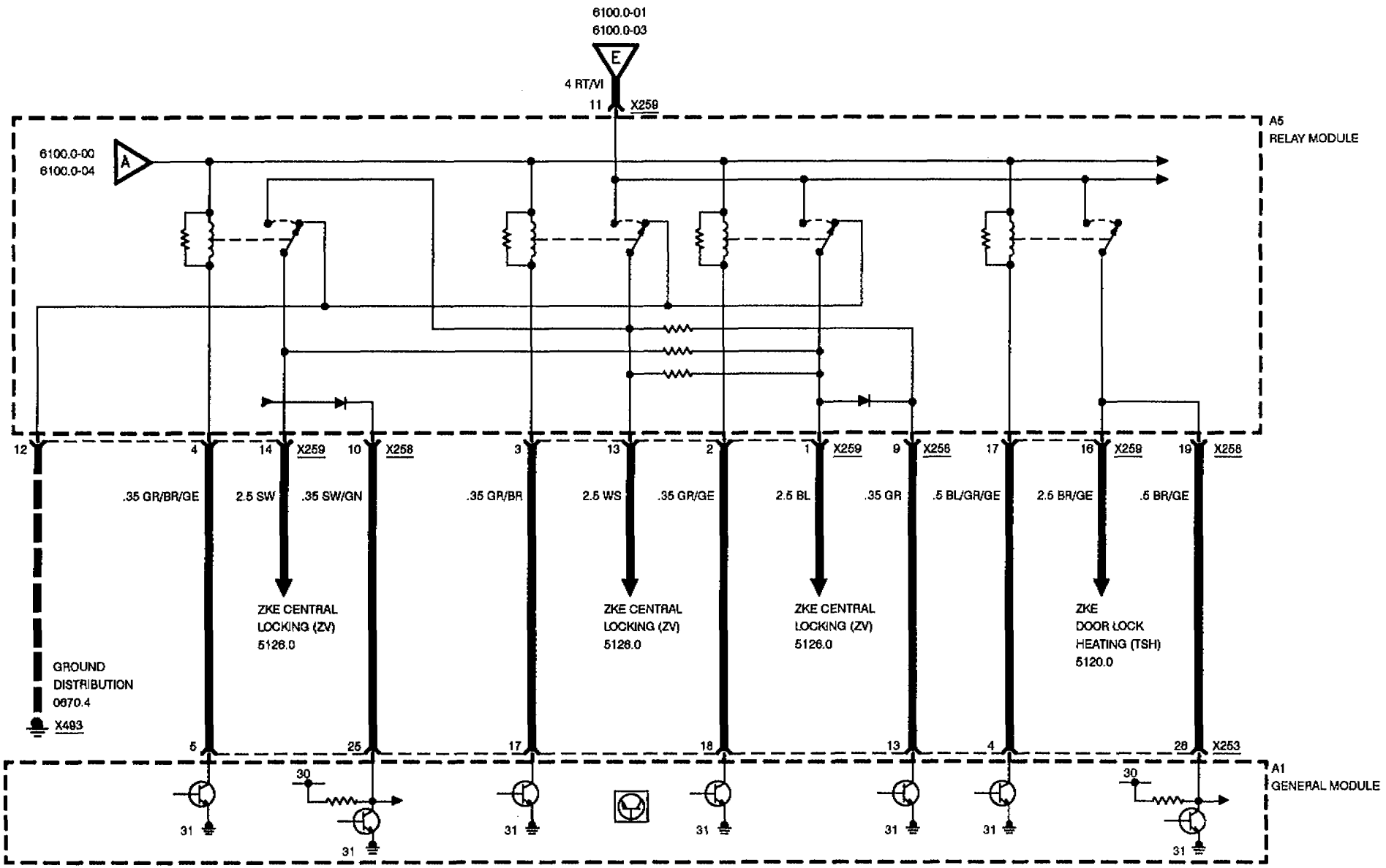
RELAY MODULE



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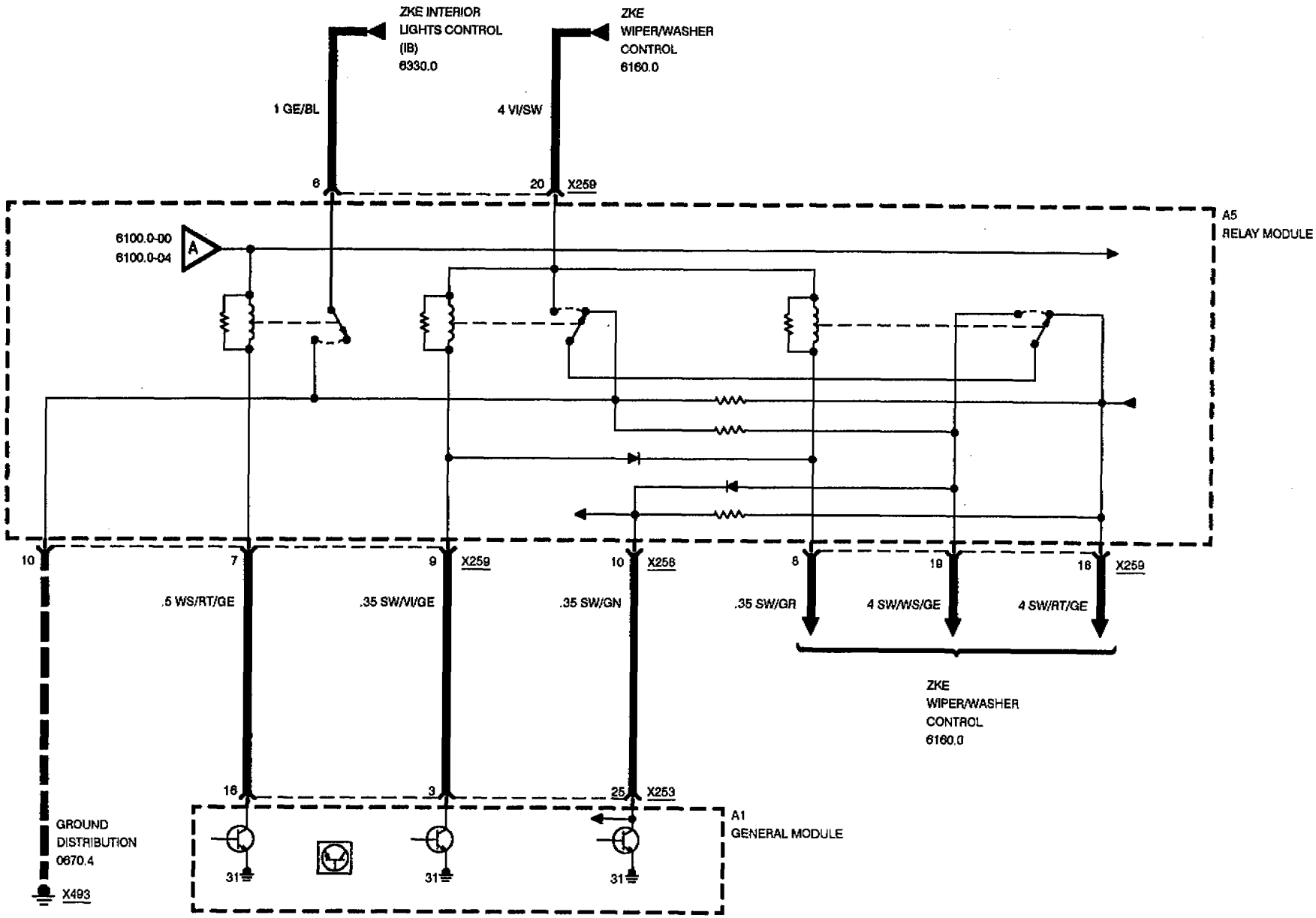
RELAY MODULE



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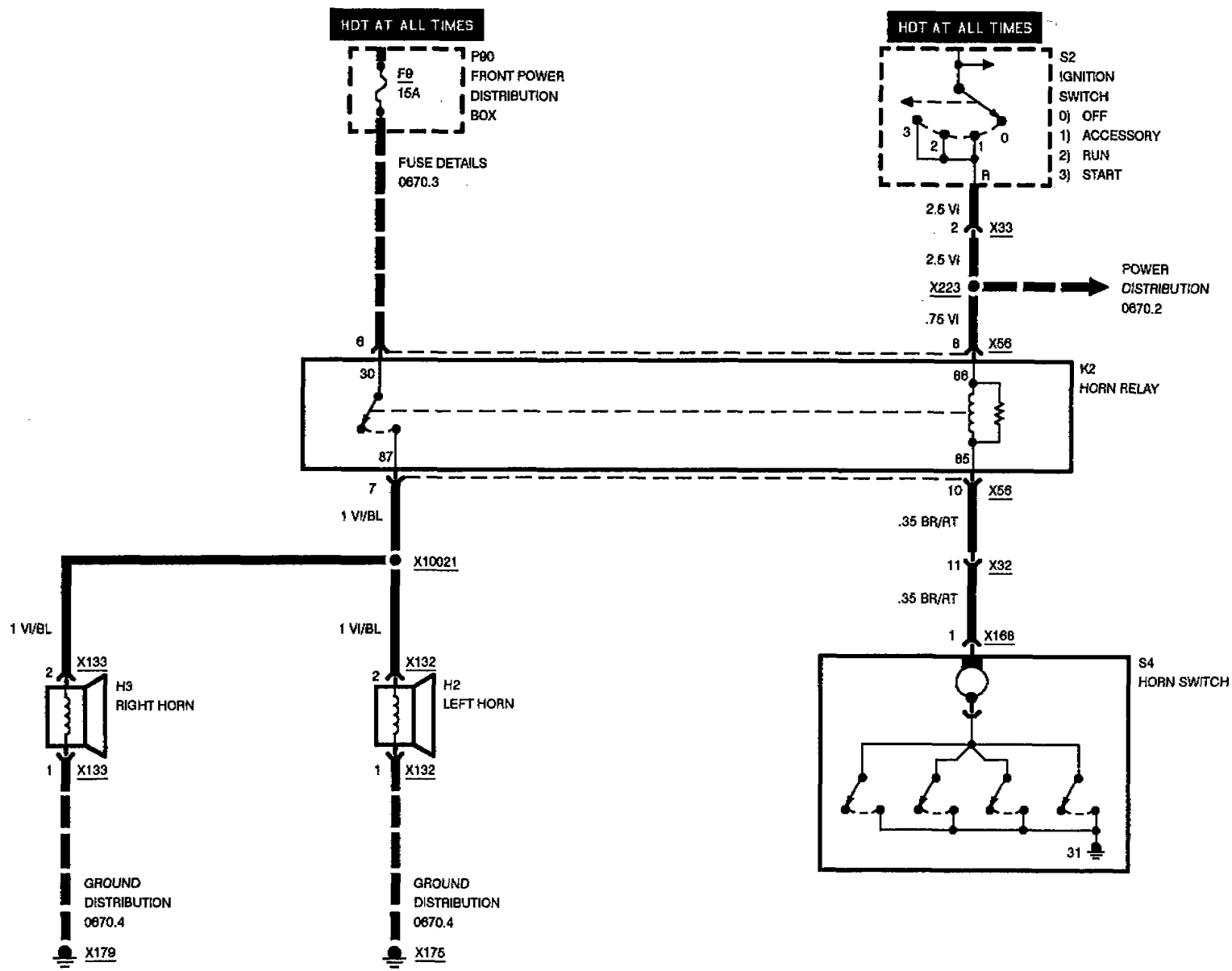
RELAY MODULE



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HORN

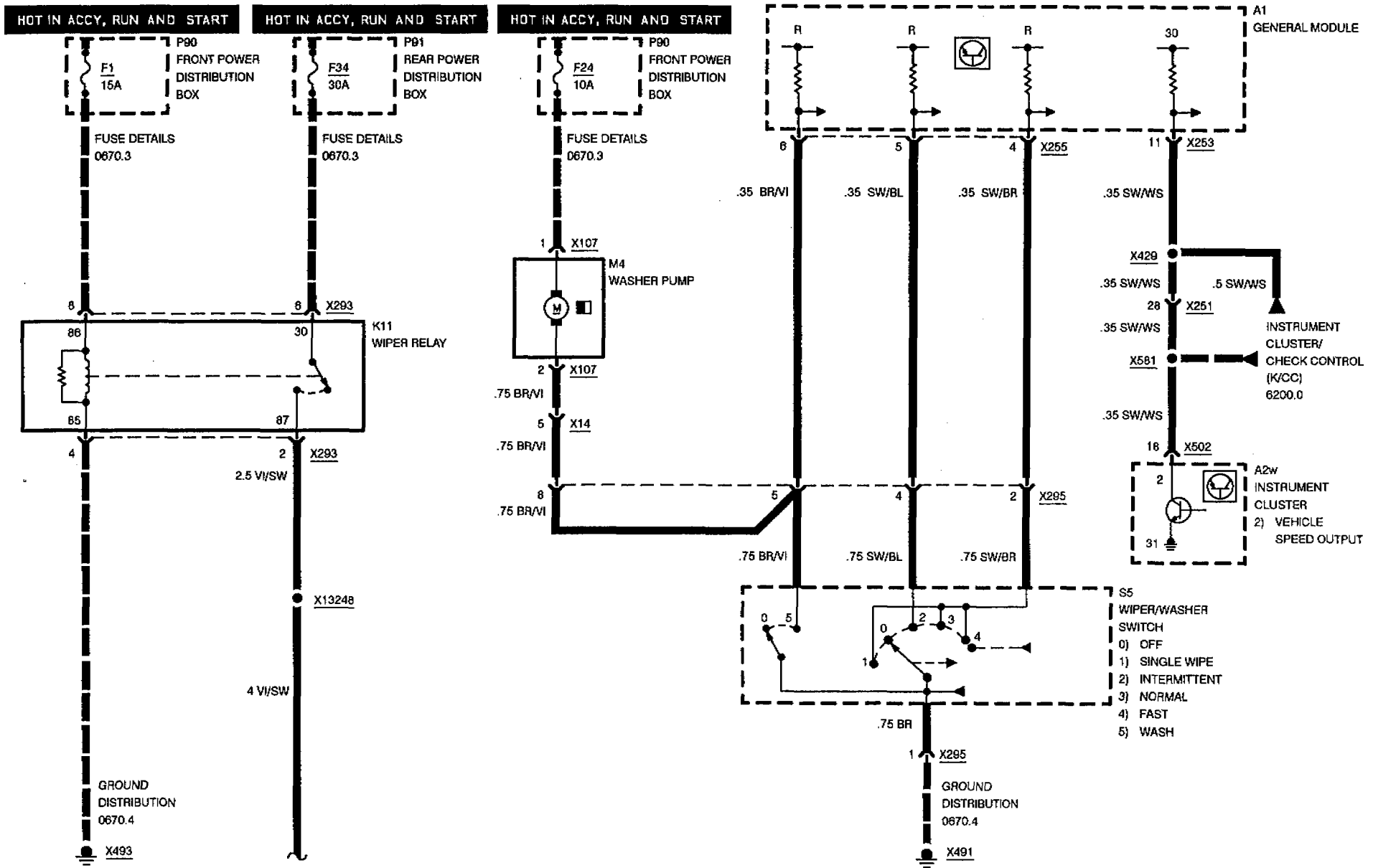


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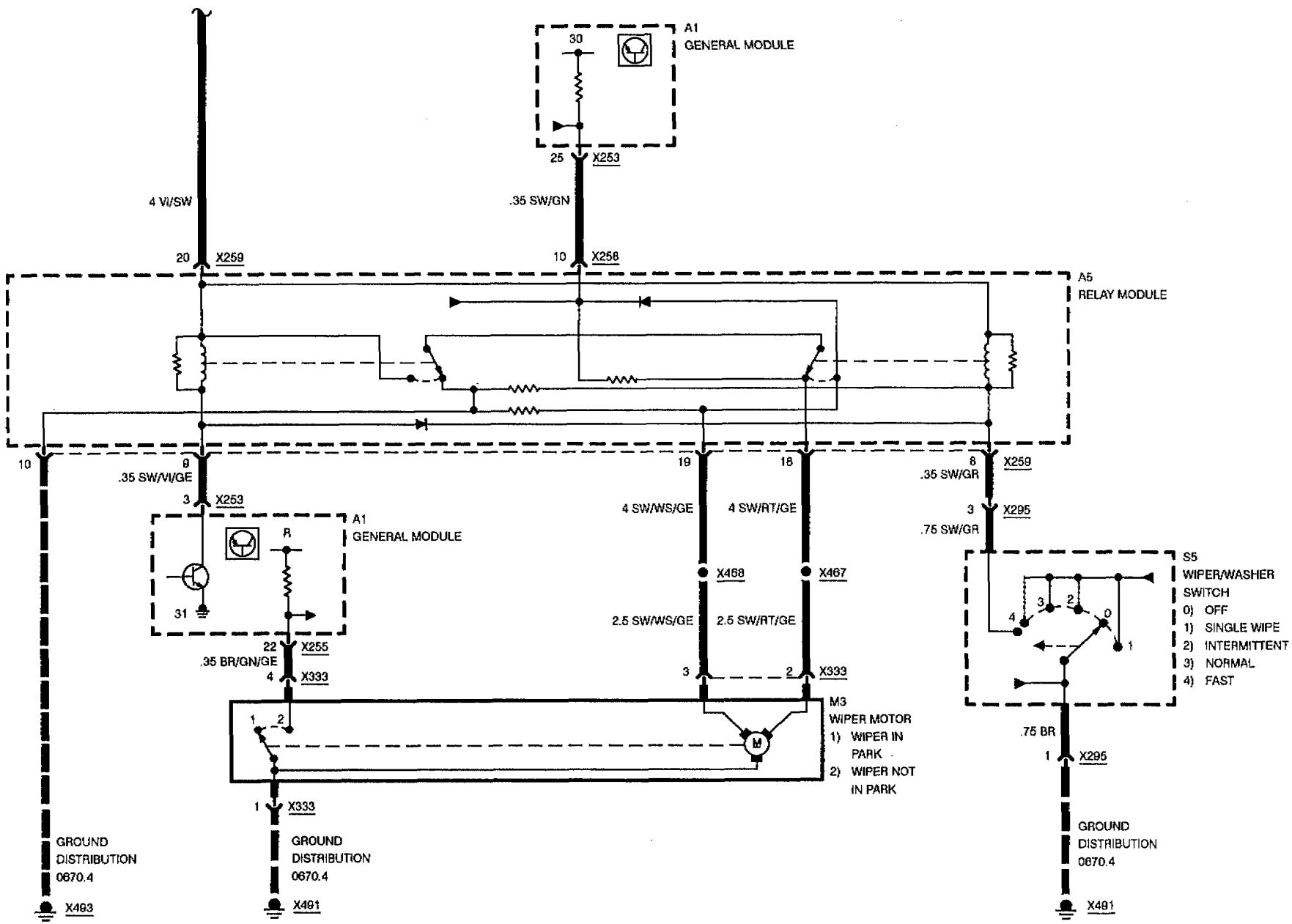
cardiagn.com

ZKE WIPER/WASHER CONTROL

INPUT DETAILS



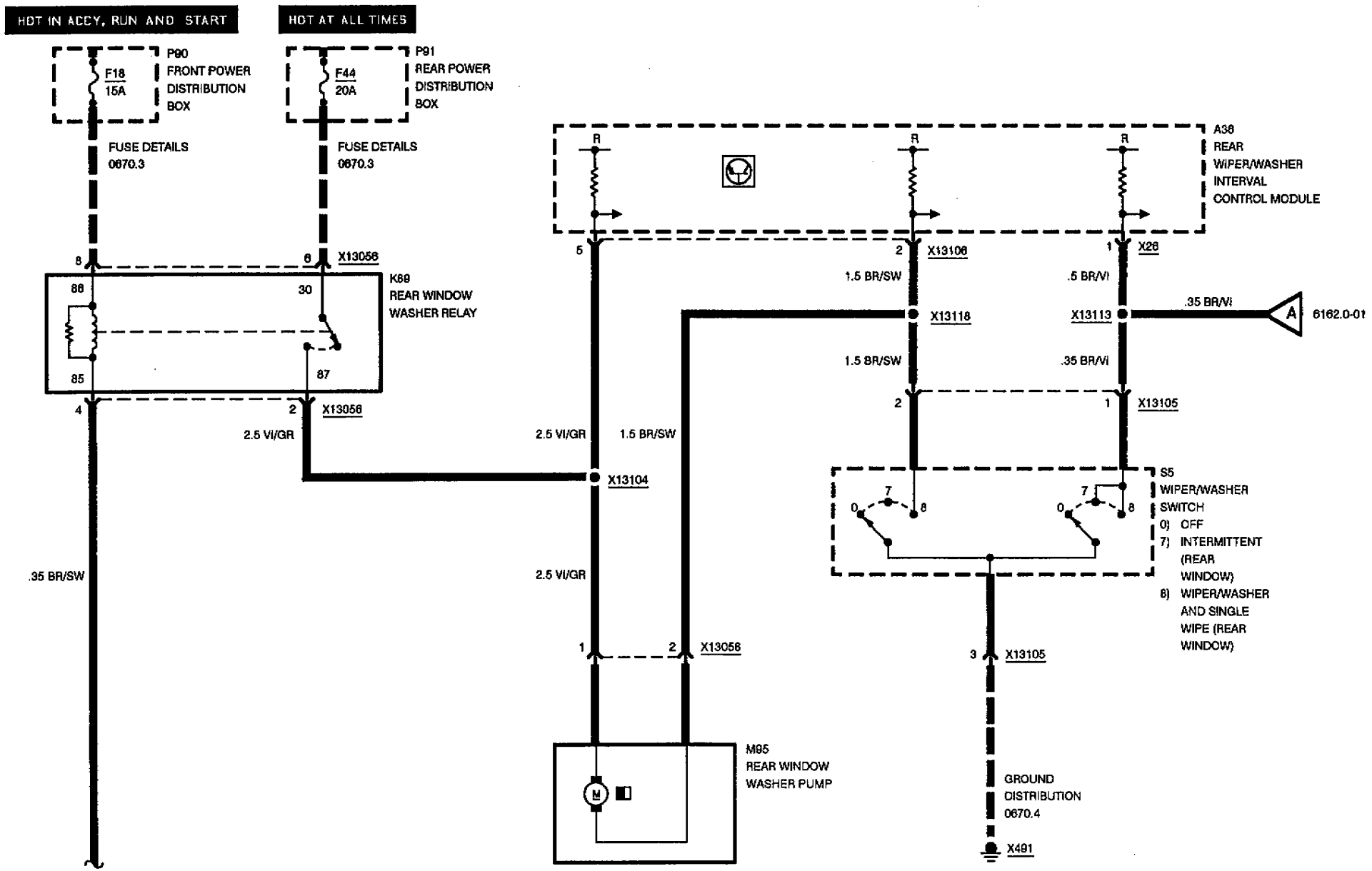
cardiagn.com



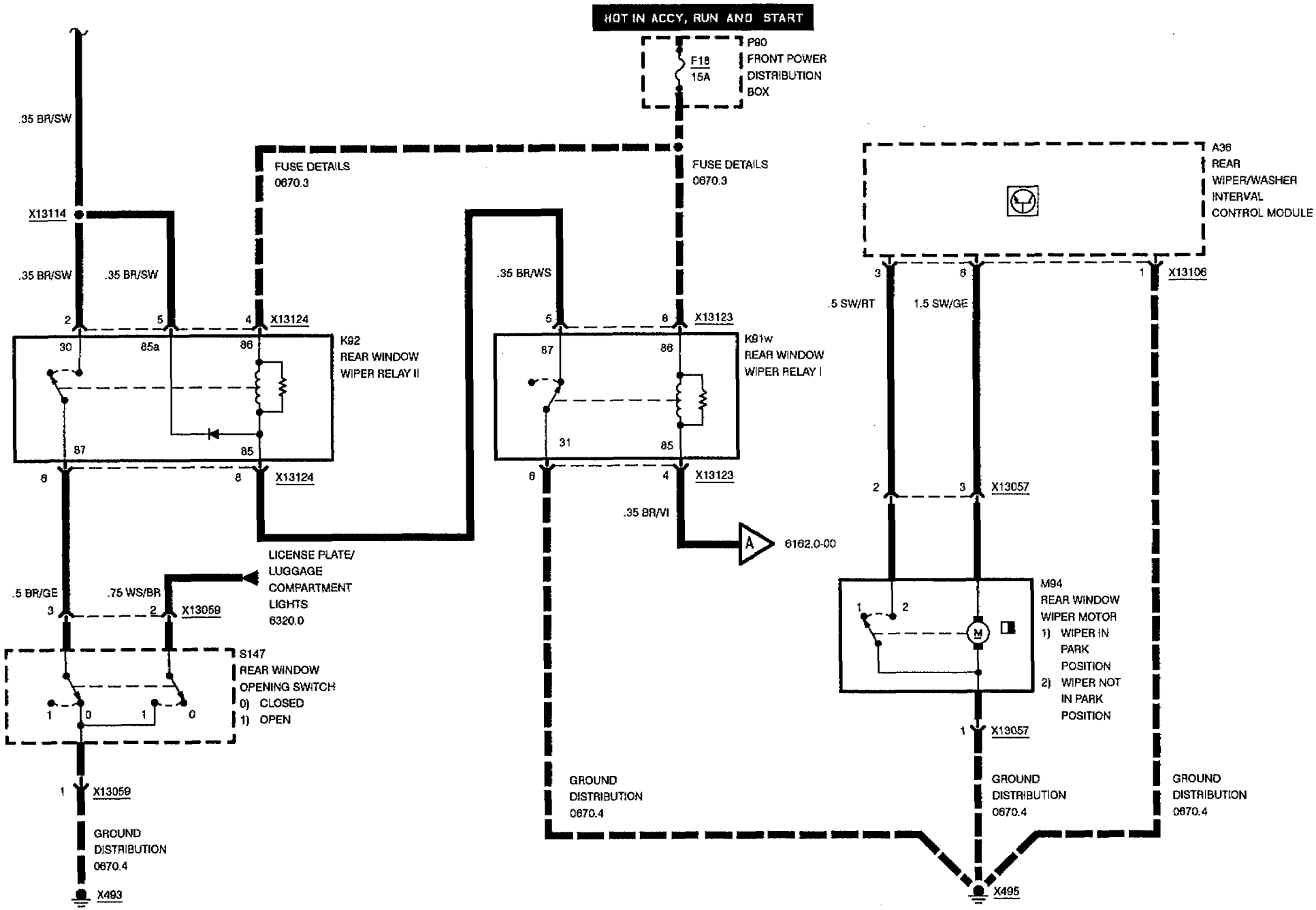
cardiagn.com

REAR WINDOW WIPER/WASHER CONTROL

525it



cardiagn.com

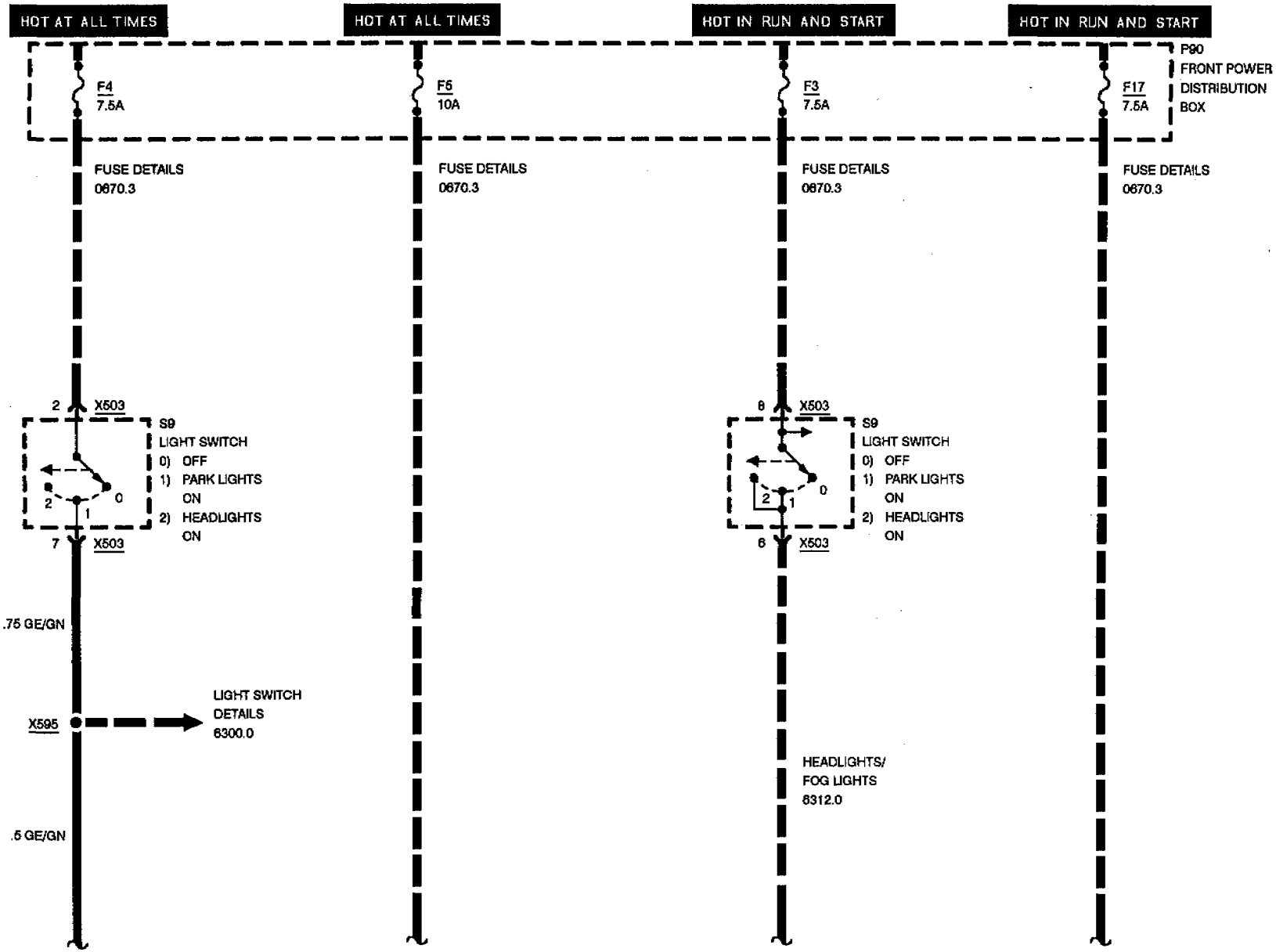


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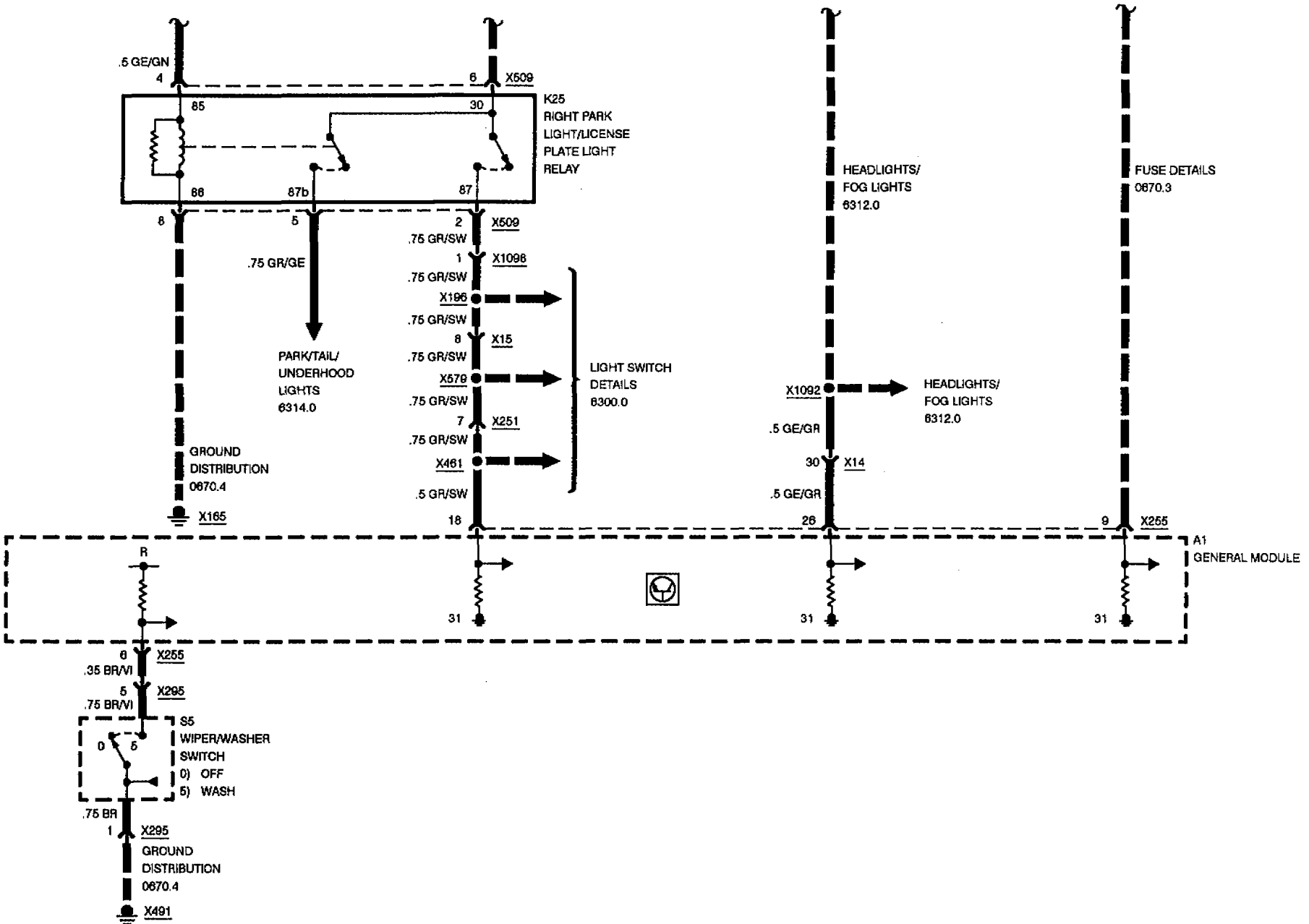
ZKE HEADLIGHT WASHER (SRA)

CDN

INPUT DETAILS



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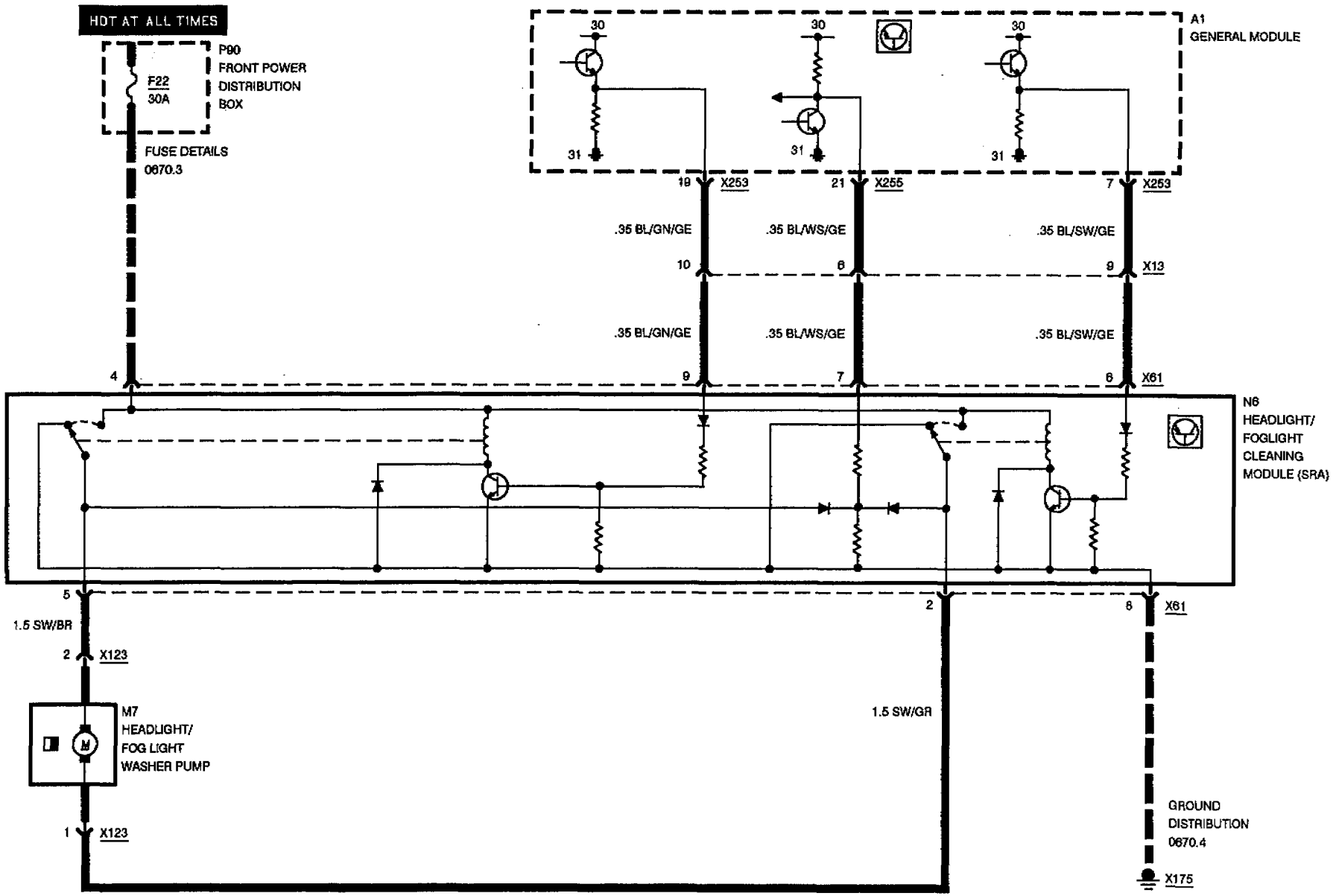


carDiagn.com

ZKE HEADLIGHT WASHER (SRA)

CDN

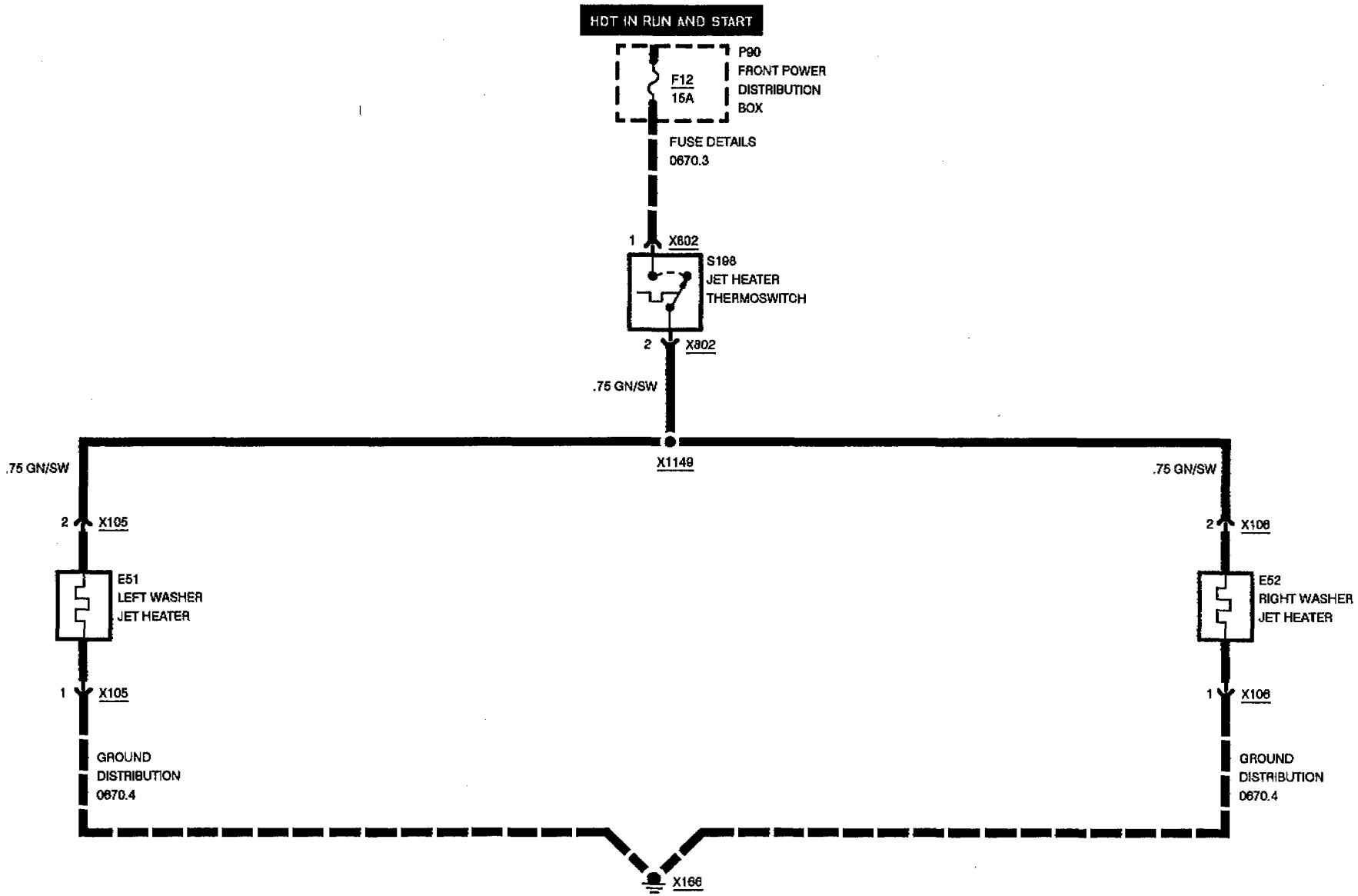
OUTPUT DETAILS



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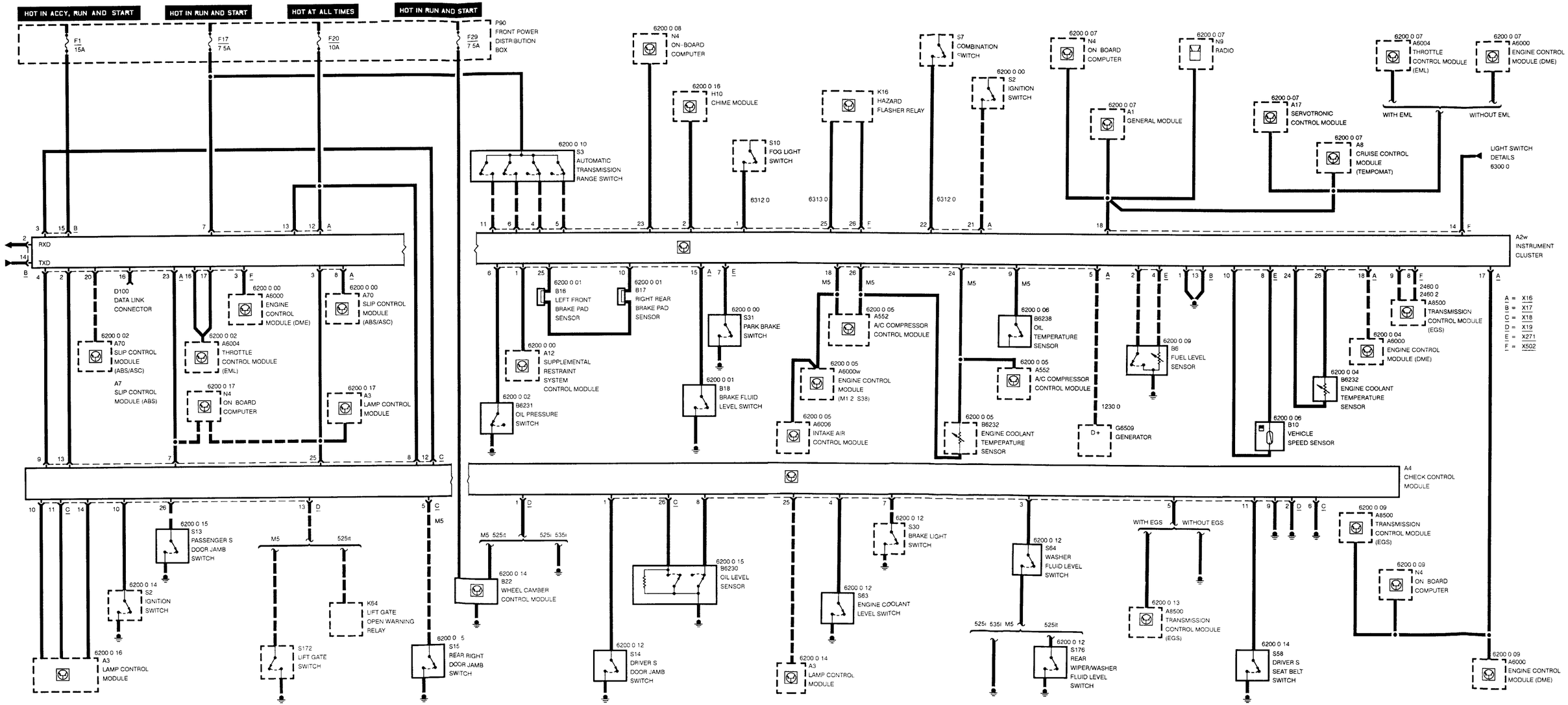
cardiagn.com

WINDSHIELD WASHER JET HEATERS

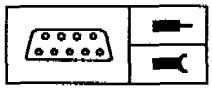


cardiagn.com

12/93 6200 0 1993
12/93 6200 0 1993



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Pin Assignments

A=X16	26 Pins, beige
B=X17	24 Pins, brown
C=X18	26 Pins, blue
D=X19	26 Pins, green
E=X271	12 Pins, gray
F=X502	26 Pins, white

X16

Pin	Type	Description/Function	Connect
1	A	Airbag warning lamp (SRS) control	Supplemental restraint system control module
2	E	Data line	Check control module
3	A	Data line	Check control module, lamp control module, on-board computer and radio
4	E	Data line	Check control module
5	E	Charge indicator control	Generator
6	E	Oil pressure warning lamp control	Oil pressure switch
7	E	Terminal 15 voltage supply	Front power distribution box, fuse 17
8	E	ASC indicator control	Slip control module (ABS/ASC)
9	E	Oil temperature signal (M5)	Oil temperature sensor
10	M	Ground, brake pad signal	Brake pad sensors
11		Not used	
12	E	Terminal 30 voltage supply	Front power distribution box, fuse 20
13	E	Terminal 30 voltage supply	Front power distribution box, fuse 20
14		Not used	
15	E	Brake fluid warning lamp control	Brake fluid level switch
16	A	SIA reset/service interval indicator reset	Data link connector
17	E	ti signal for fuel economy	Engine control module (DME)
18	E	TD signal for tachometer	Engine control module (DME)
19		Not used	
20	E	Antilock brake system warning lamp (ABS) control	ABS electronic control module or slip control module (ABS/ASC)

E = Input, A = Output, M = Ground

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Pin Assignments

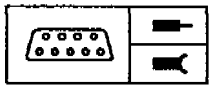
Pin	Type	Description/Function	Connect
21	E	Airbag warning lamp (SRS) control	Ignition switch, terminal R
22	E	High beam indicator control	Combination switch
23	A	Data line	Check control module, on-board computer and radio
24	M	Engine coolant temperature sensor ground	Engine coolant temperature sensor
25	E	Brake pad wear warning lamp control	Brake pad sensors
26	E	Temperature gauge signal	Engine coolant temperature sensor

X17

Pin	Type	Description/Function	Connect
1	M	Ground	Ground point
2	E	RxD diagnostic data link	Data link connector
3	E	Terminal R voltage supply	Front power distribution box, fuse 1
4		Cluster programming	NV-RAM
5		Cluster programming	NV-RAM
6		Cluster programming	NV-RAM
7		Cluster programming	NV-RAM
8		Cluster programming	NV-RAM
9		Cluster programming	NV-RAM
10		Cluster programming	NV-RAM
11		Cluster programming	NV-RAM
12		Cluster programming	NV-RAM
13	M	Ground	Ground point
14	E/A	TxD diagnostic data link	Data link connector
15	E	Terminal R voltage supply	Front power distribution box, fuse 1
16		Cluster programming	NV-RAM
17		Cluster programming	NV-RAM
18		Cluster programming	NV-RAM
19		Cluster programming	NV-RAM
20		Cluster programming	NV-RAM
21		Cluster programming	NV-RAM

E = Input, A = Output, M = Ground

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Pin Assignments

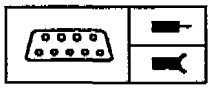
Pin	Type	Description/Function	Connect
22		Cluster programming	NV-RAM
23		Cluster programming	NV-RAM
24		Cluster programming	NV-RAM

X18

Pin	Type	Description/Function	Connect
1	E	Door open signal	Door jamp switch, driver's
2		Not used	
3		Not used	
4		Not used	
5	E	Door open signal (M5)	Rear door jamb switch
6	M	Ground, control module	Ground point
7		Data line	Instrument cluster, on-board computer and radio
8	E	Terminal 30 voltage supply	Front power distribution box, fuse 20
9	A	Data line	Instrument cluster
10	E	Data line	Lamp control module
11	E	Data line	Lamp control module
12	E	Terminal R voltage supply	Front power distribution box, fuse 1
13	A	Data line	Instrument cluster
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments

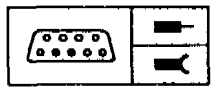
Pin	Type	Description/Function	Connect
25	E	Data line	Instrument cluster, on-board computer, lamp control module and radio
26	E	Oil level signal	Oil level sensor

X19

Pin	Type	Description/Function	Connect
1	M	Ground (525i, 535i)	Ground point
	E	Wheel camber signal (M5, 525it)	Wheel camber control module
2	M	Ground, control module	Ground point
3	E	Washer fluid level signal	Washer fluid level switch
4	E	Engine coolant level signal	Engine coolant level switch
5	M	Ground (without EGS)	Ground point
	E	EGS fault signal (with EGS)	Transmission control module (EGS)
6		Not used	
7	E	Brake pedal status	Brake light switch
8	E	Oil level signal	Oil level sensor
9	M	Ground	Ground point
10	E	Ignition switch status	Ignition switch
11	E	Seat belt status	Seat belt switch, driver's
12		Not used	
13	E	Lift gate open signal (M5)	Lift gate open warning relay
	E	Lift gate open signal (525it)	Lift gate open switch
14	E	Data line	Lamp control module
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connect
24		Not used	
25		Light switch ON signal	Lamp control module
26	E	Door open signal (M5)	Door jamb switch, passenger's

X271

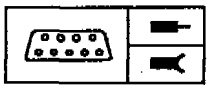
Pin	Type	Description/Function	Connect
1		Not used	
2	E	Fuel level warning signal	Fuel tank sensor
3		Not used	
4	E	Fuel level signal	Fuel tank sensor
5		Not used	
6		Not used	
7	E	Park brake warning lamp control	Park brake switch
8	E	Vehicle speed input (+)	Vehicle speed sensor
9		Not used	
10	E	Vehicle speed input (-)	Vehicle speed sensor
11		Not used	
12		Not used	

X502

Pin	Type	Description/Function	Connect
1	E	Fog light indicator control	Fog light switch
2	A	Sound tone signal	Chime module
3	E	"Check engine" indicator control	Engine control module (DME)
4	E	Gear range signal	Automatic transmission range switch (L2)
5	E	Gear range signal	Automatic transmission range switch (L1)
6	E	Gear range signal	Automatic transmission range switch (L3)
7		Not used	
8	E	Transmission mode signal	Transmission control module (EGS)
9	E	Transmission mode signal	Transmission control module (EGS)

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connect
10		Not used	
11	E	Gear range signal	Automatic tansmission range switch (L4)
12		Not used	
13		Not used	
14	E	Terminal 58g, instrument illumination power	Dimmer
15		Not used	
16	E	EML fault indicator control	Electronic throttle module (EML)
17	E	EML fault indicator control	Electronic throttle module (EML)
18	A	Vehicle Speed signal	Various control modules
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23	A	Check control reset signal	On-board computer
24		Not used	
25	E	Left turn signal indicator control	Hazard flasher relay
26	E	Right turn signal indicator control	Hazard flasher relay

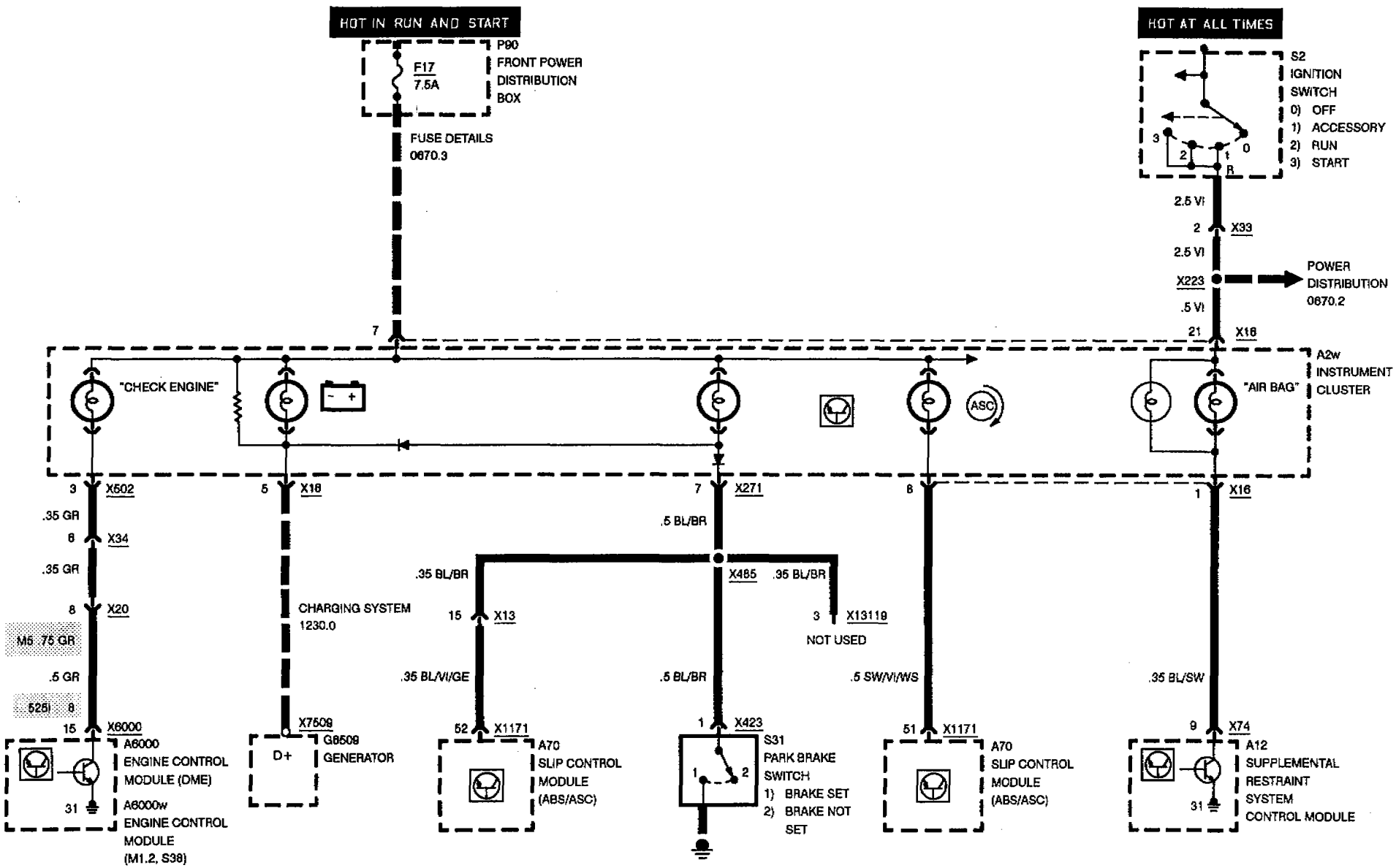
E = Input, A = Output, M = Ground

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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

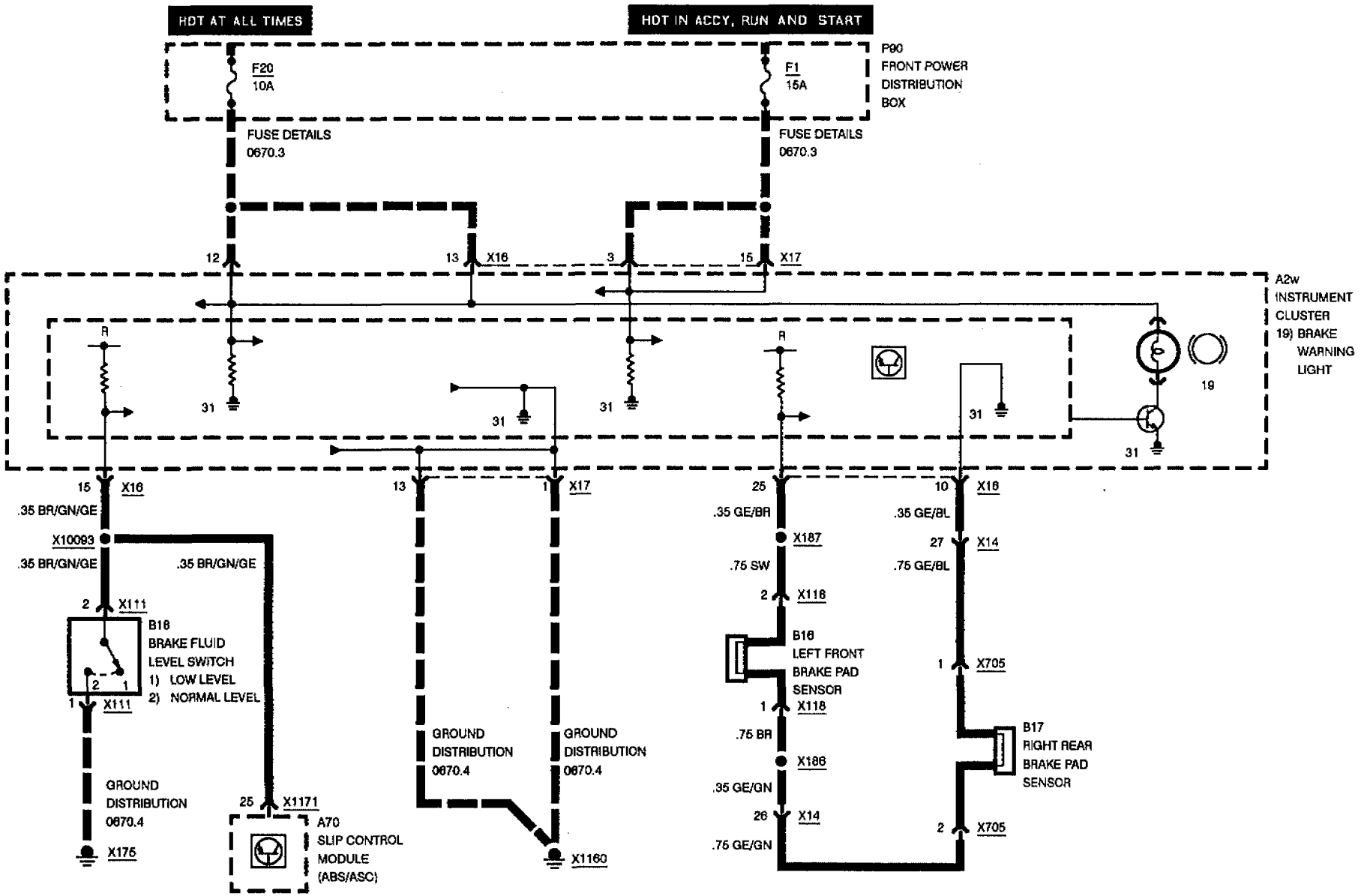
INDICATORS



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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

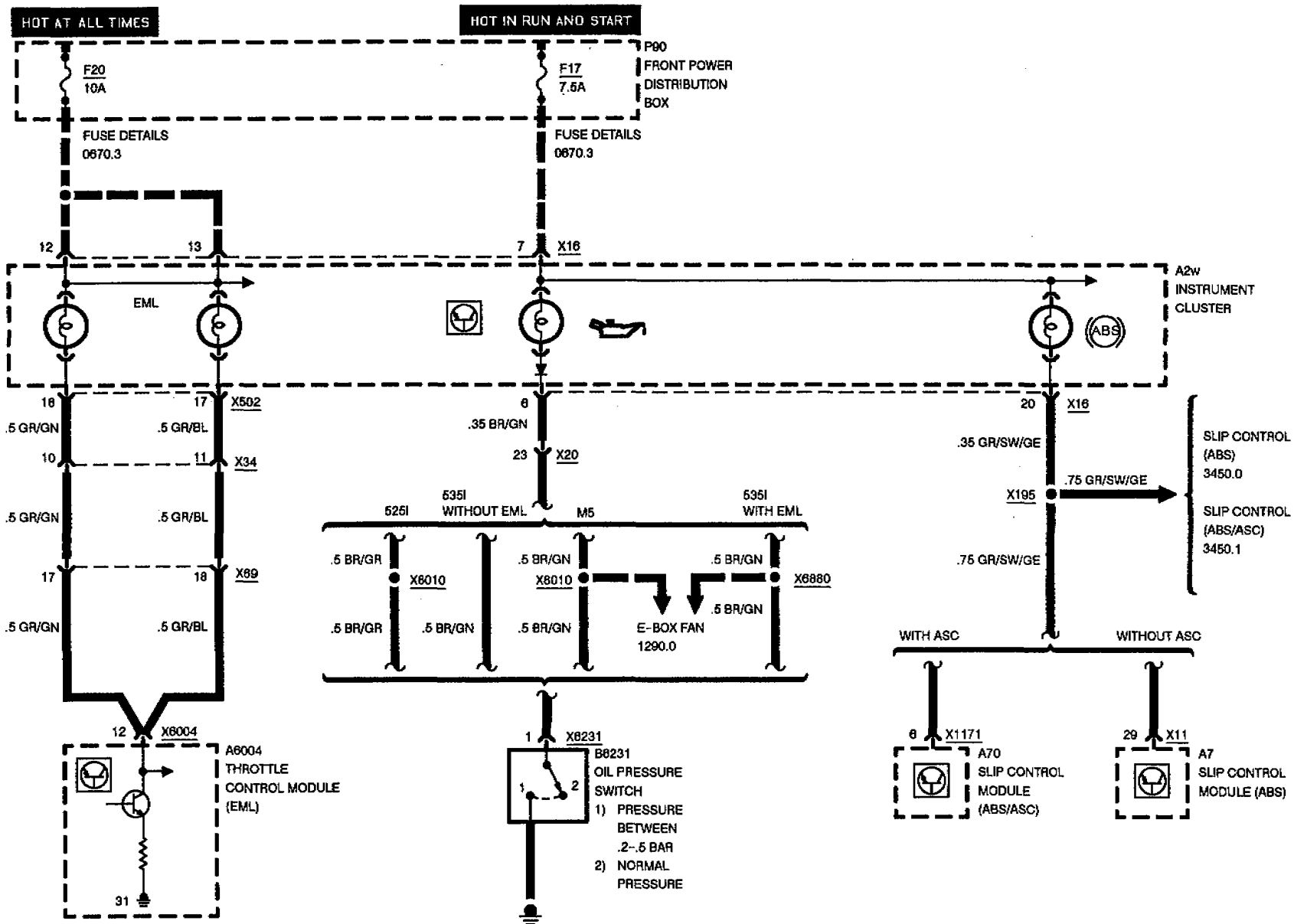
INDICATORS



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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

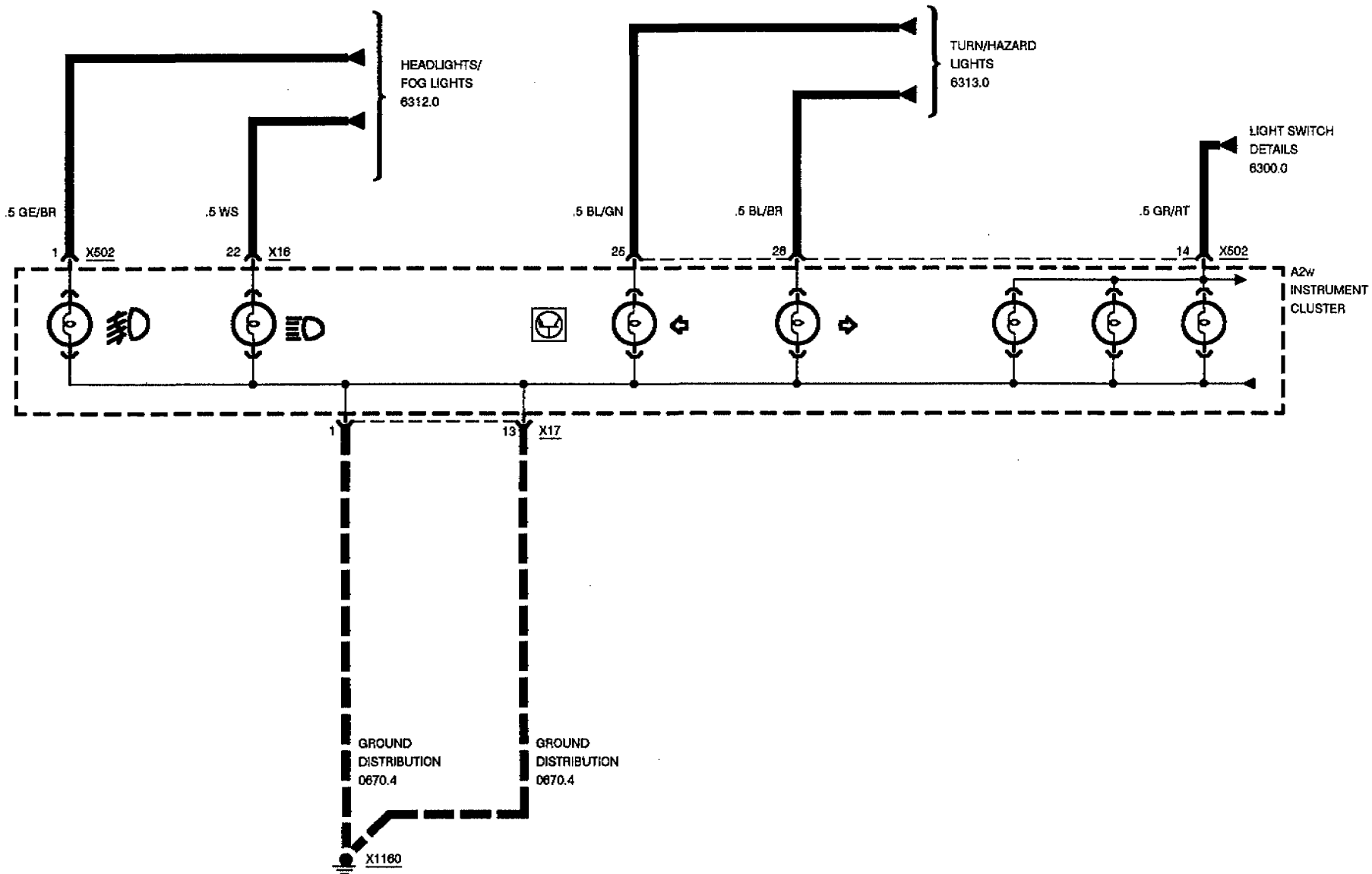
INDICATORS



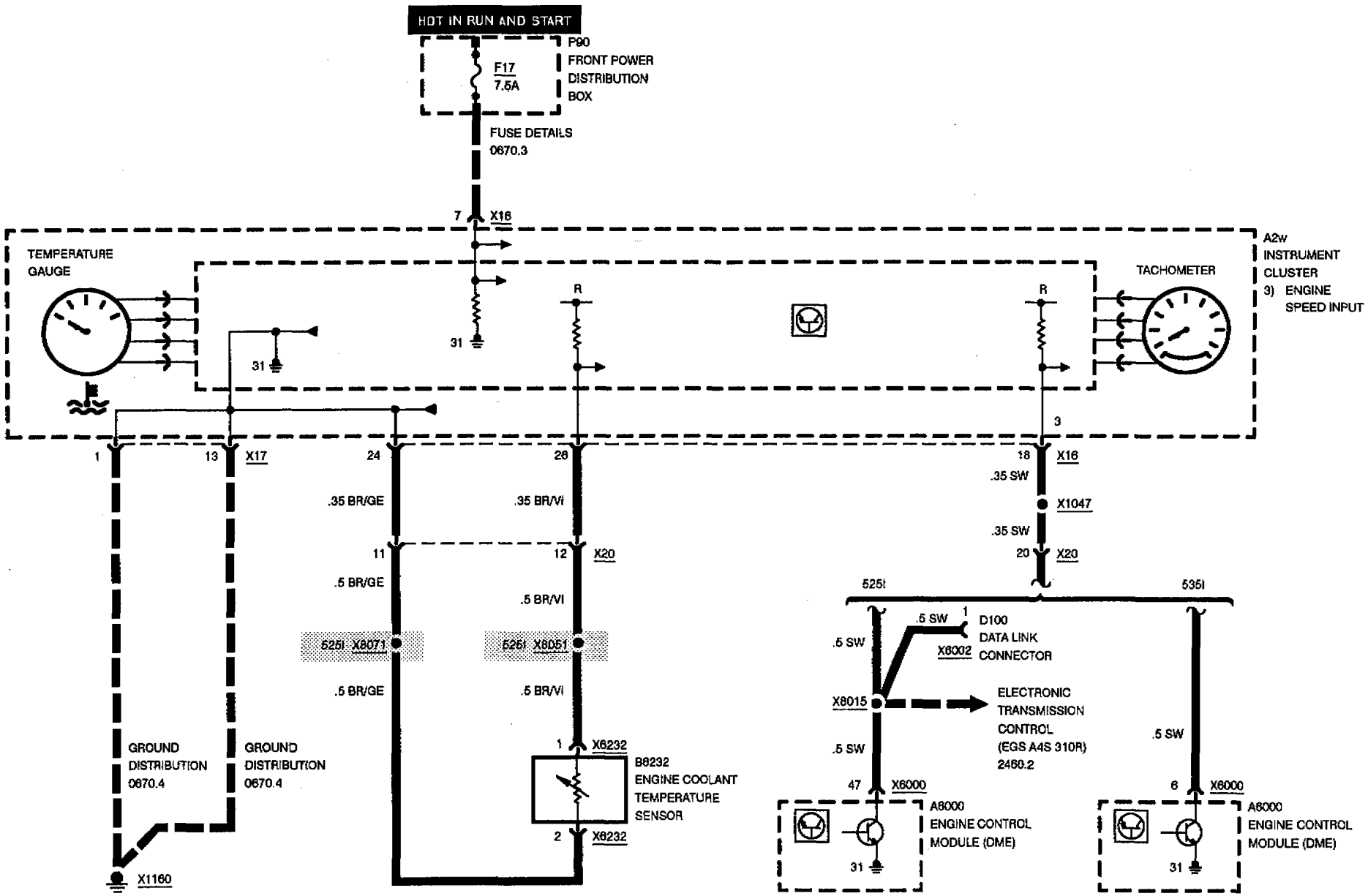
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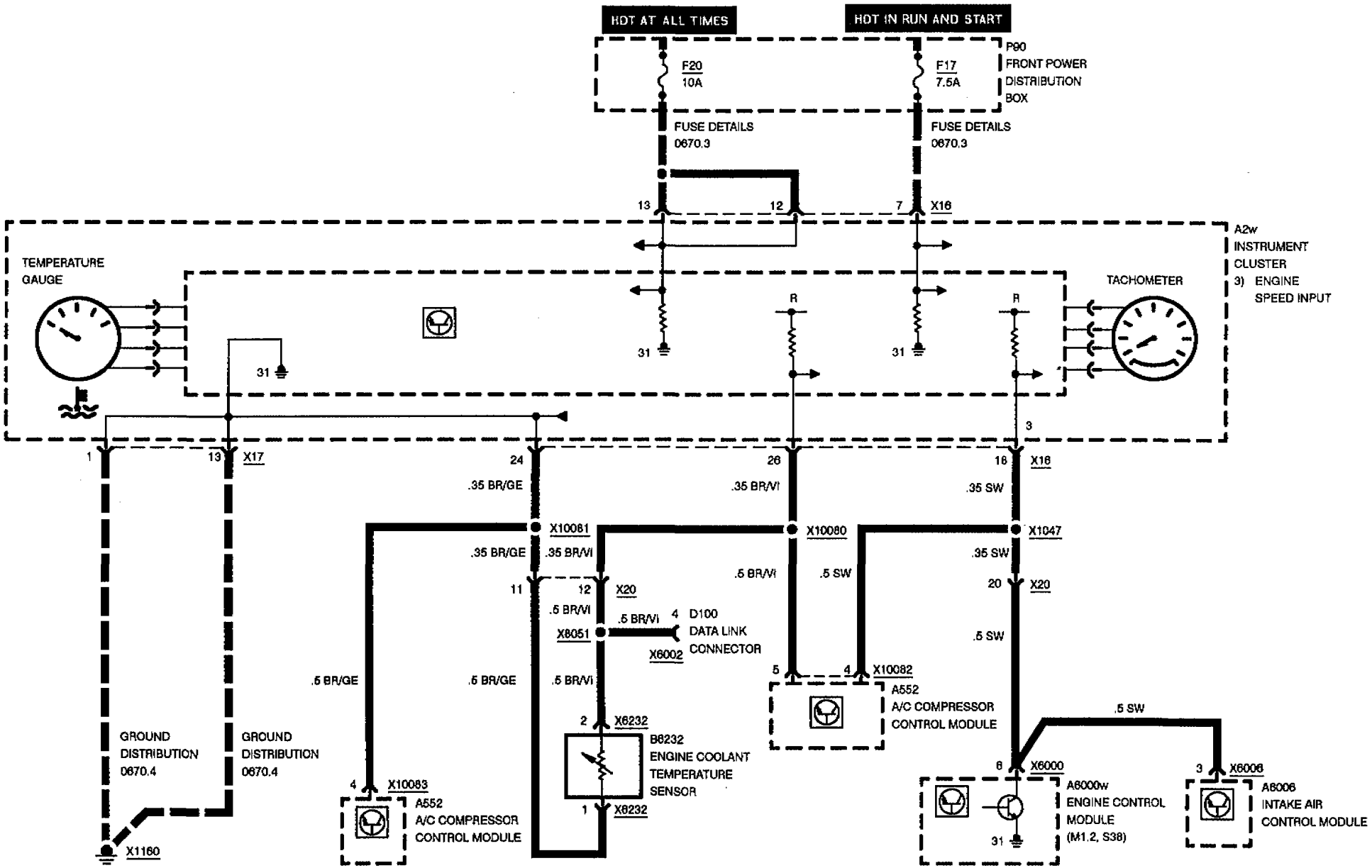
INDICATORS



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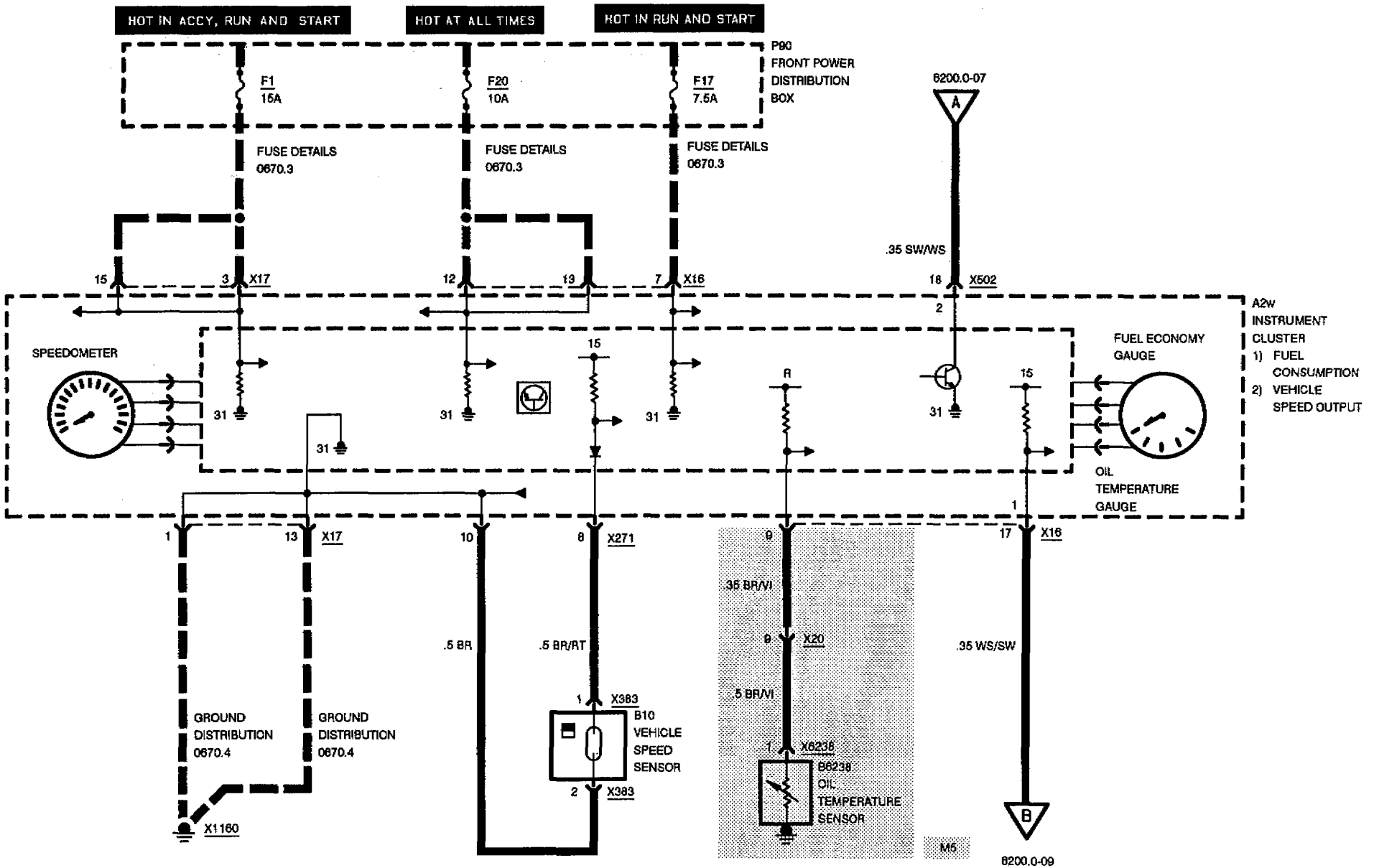
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HOT AT ALL TIMES
HOT IN RUN AND START
P90 FRONT POWER DISTRIBUTION BOX
F20 10A
F17 7.5A
FUSE DETAILS 0670.3
FUSE DETAILS 0670.3
13
12
7
X16
A2w INSTRUMENT CLUSTER
3) ENGINE SPEED INPUT
TEMPERATURE GAUGE
TACHOMETER
31
31
R
R
3
1
13
X17
24
.35 BR/GE
26
.35 BR/VI
16
X16
.35 SW
X10081
X10080
X1047
.35 BR/GE
.35 BR/VI
.5 BR/VI
.5 SW
.35 SW
11
12
X20
20
X20
.5 BR/VI
.5 BR/VI
4
D100
DATA LINK CONNECTOR
X8051
X6002
.5 SW
5
4
X10082
A552
A/C COMPRESSOR CONTROL MODULE
.5 BR/GE
.5 BR/GE
.5 BR/VI
.5 SW
2
X6232
B6232
ENGINE COOLANT TEMPERATURE SENSOR
1
X6232
6
X6000
A6000w
ENGINE CONTROL MODULE
(M1.2, S38)
31
3
X6006
A6006
INTAKE AIR CONTROL MODULE
4
X10083
A552
A/C COMPRESSOR CONTROL MODULE
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X1160

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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

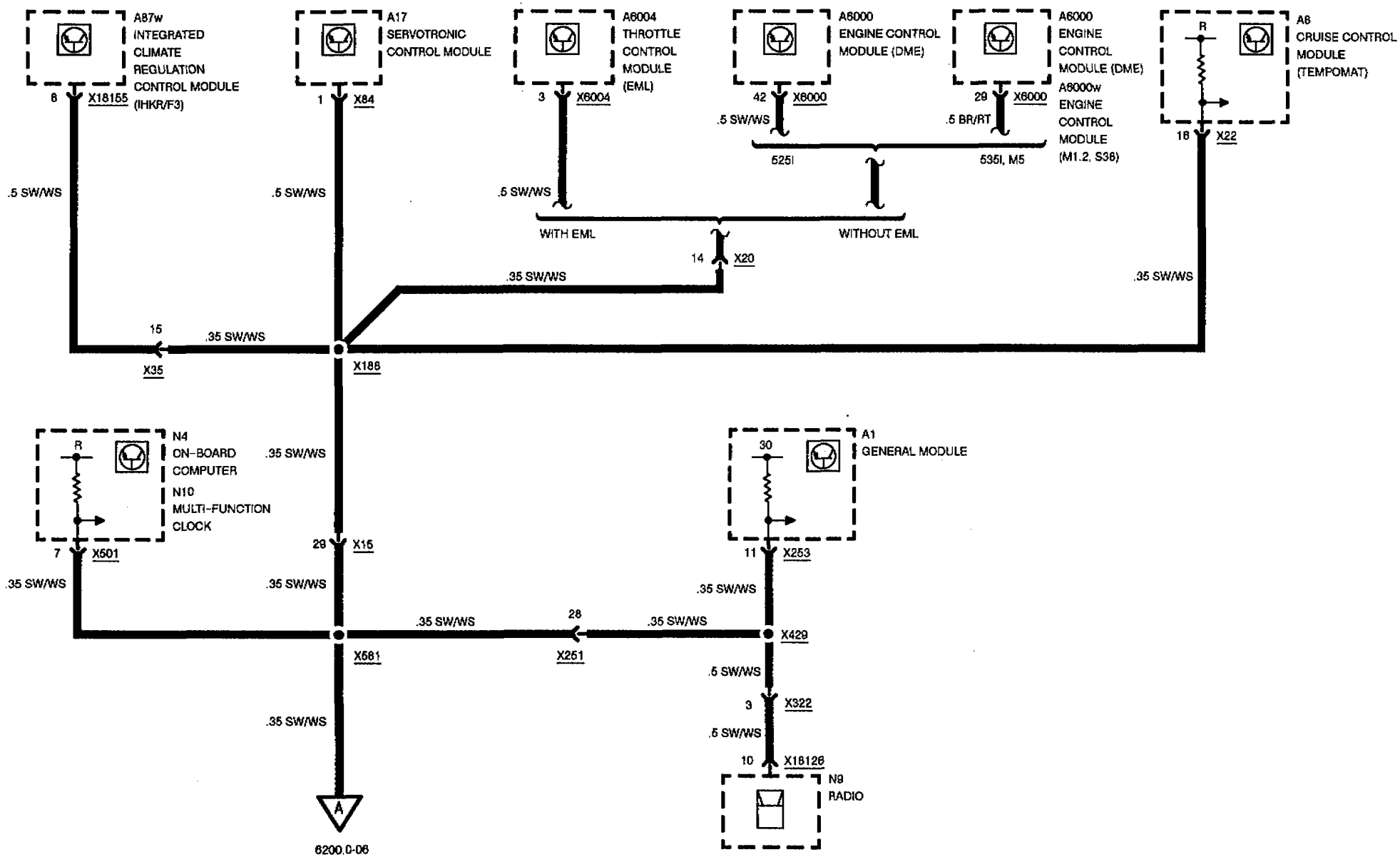
GAUGES



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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

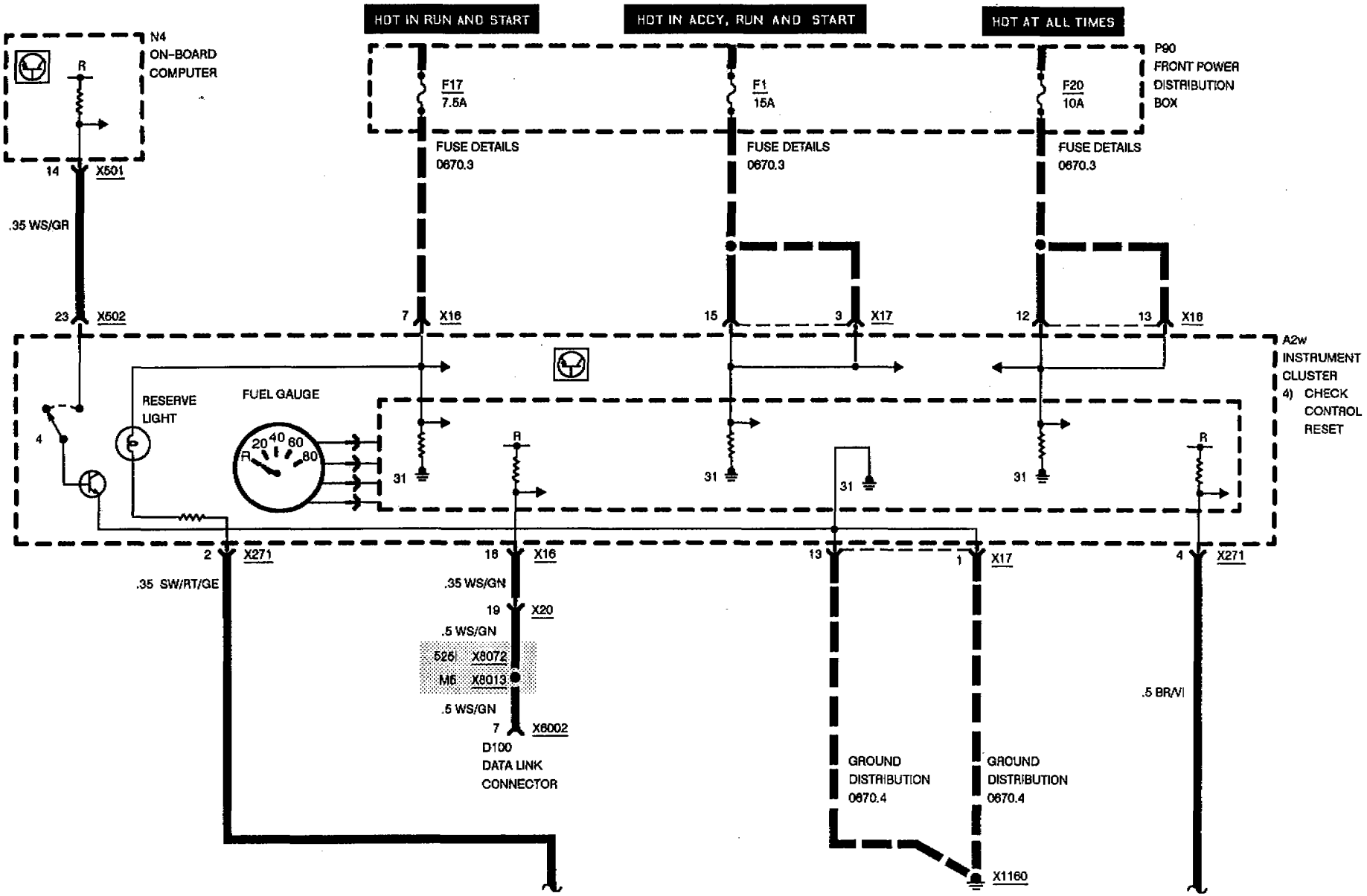
SPEED SIGNAL



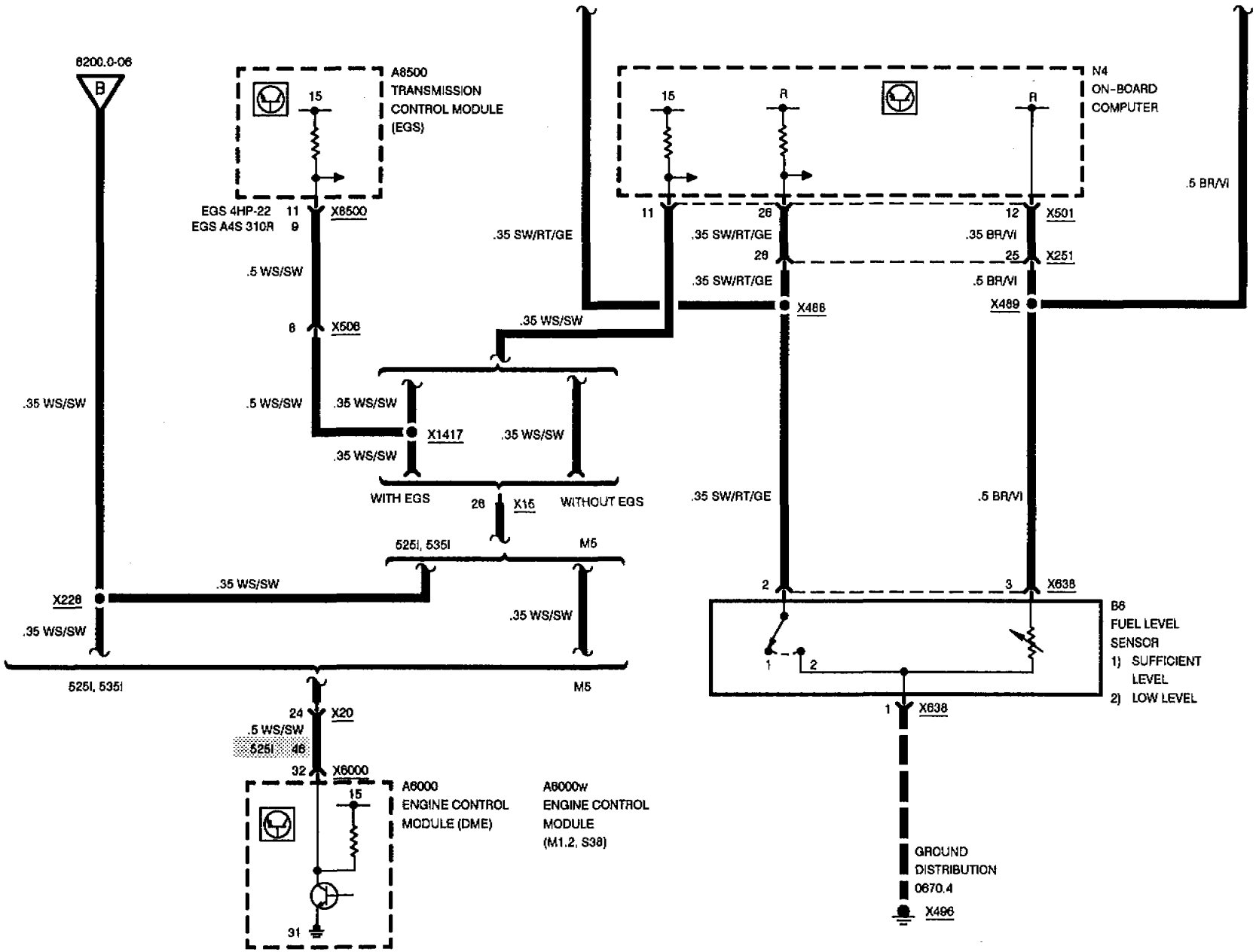
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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

GAUGES



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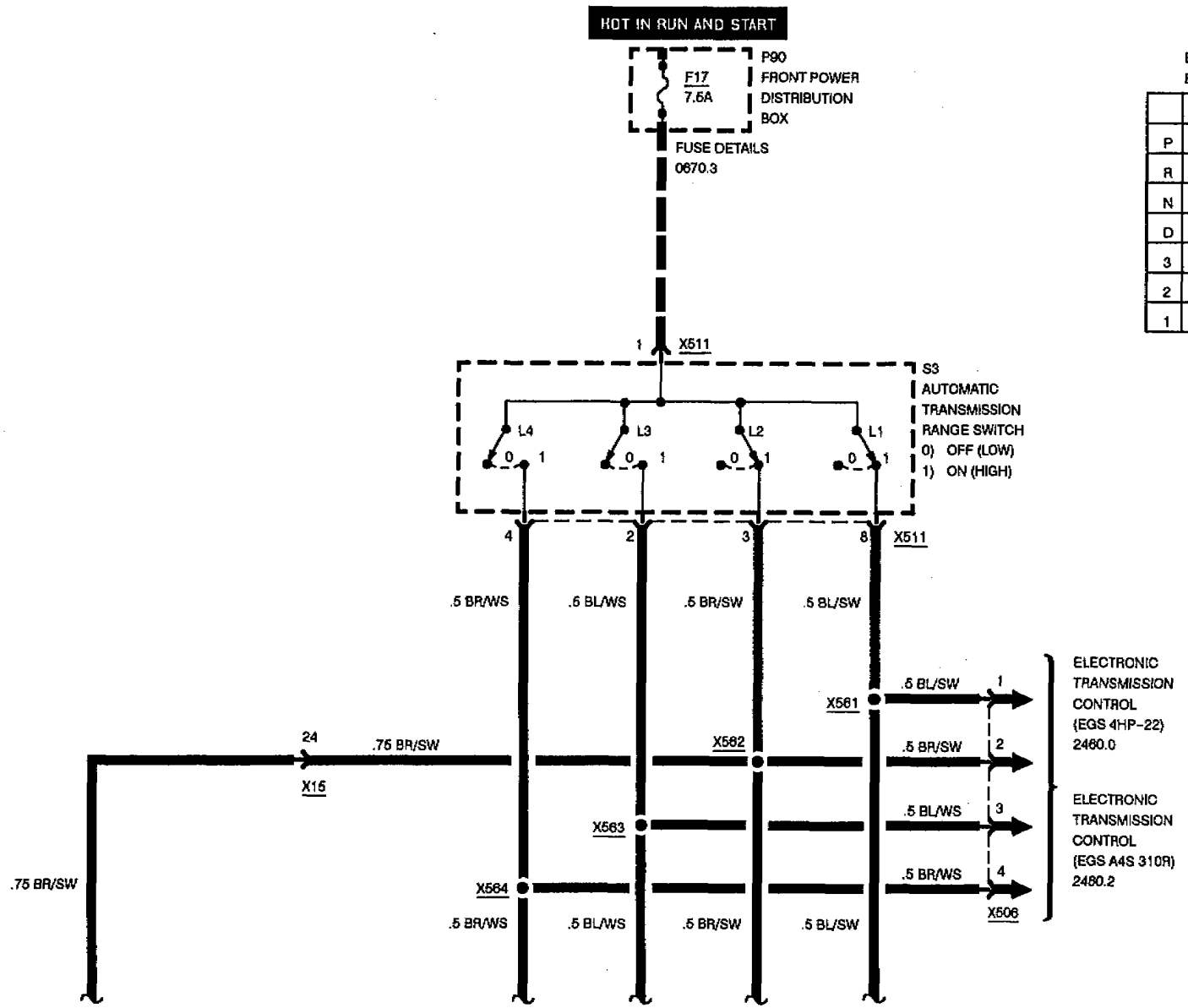


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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

GEAR SELECTOR

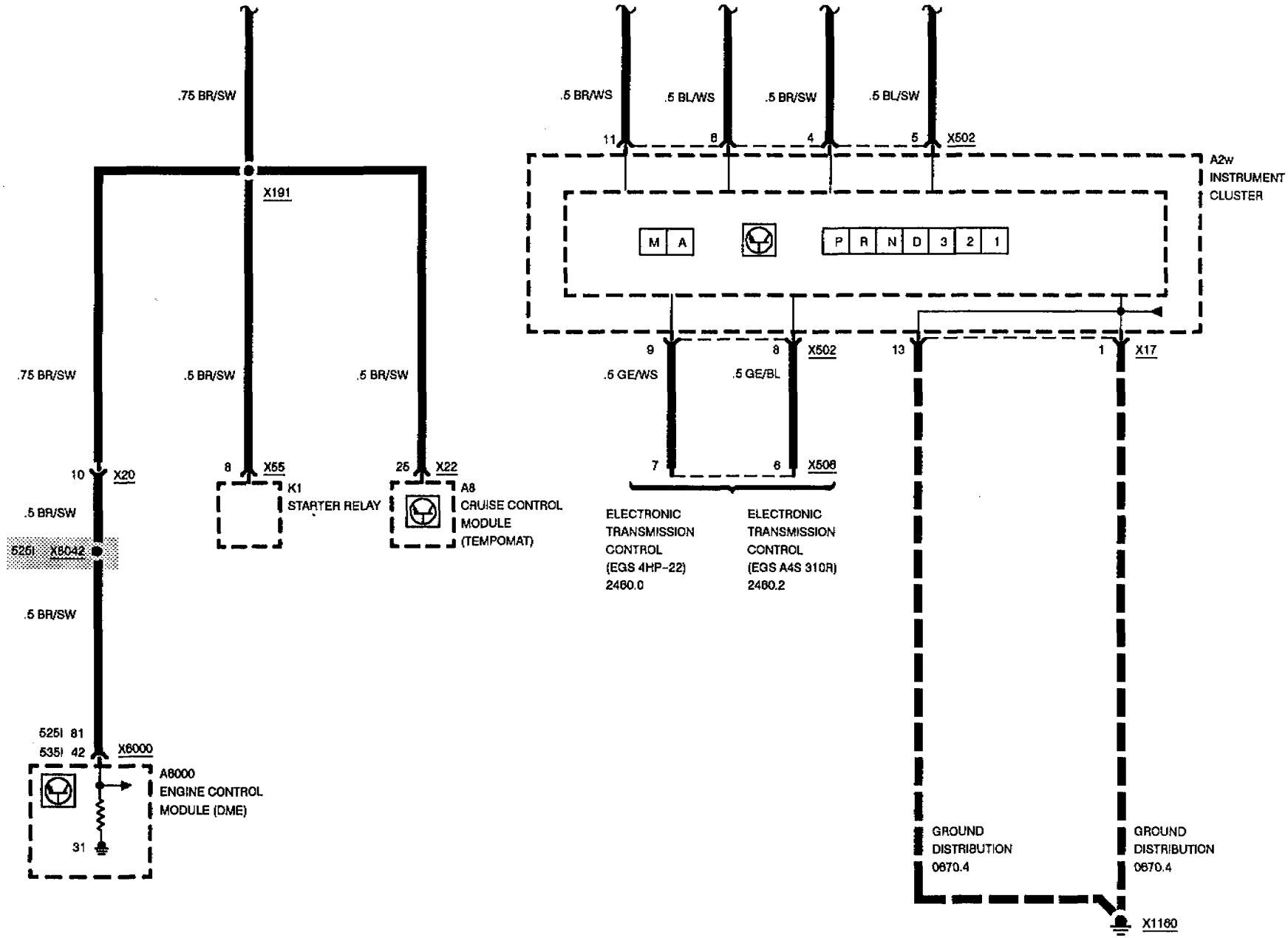
525i, 535i



EGS A4S 310R
EGS 4HP-22

	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

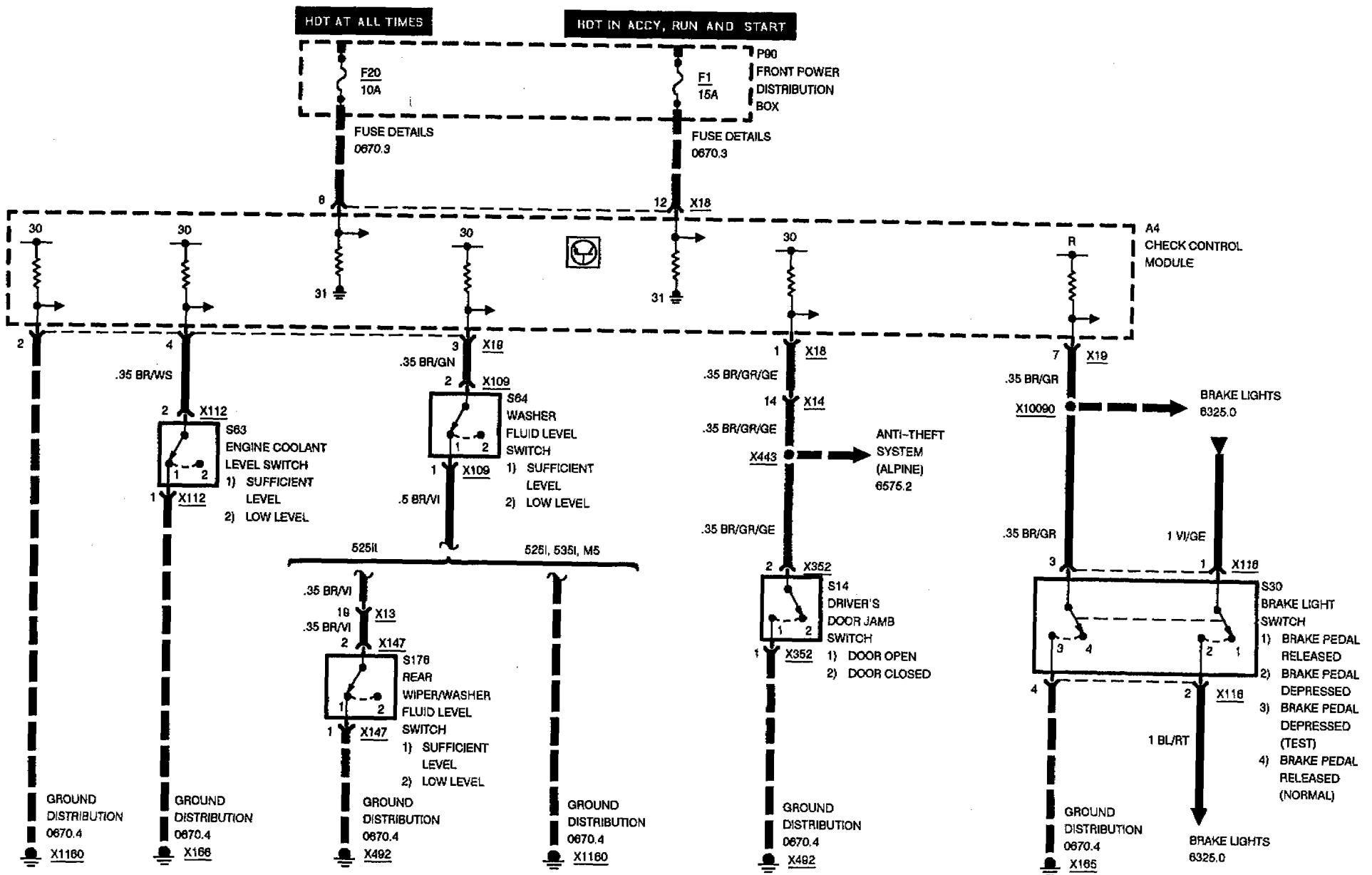
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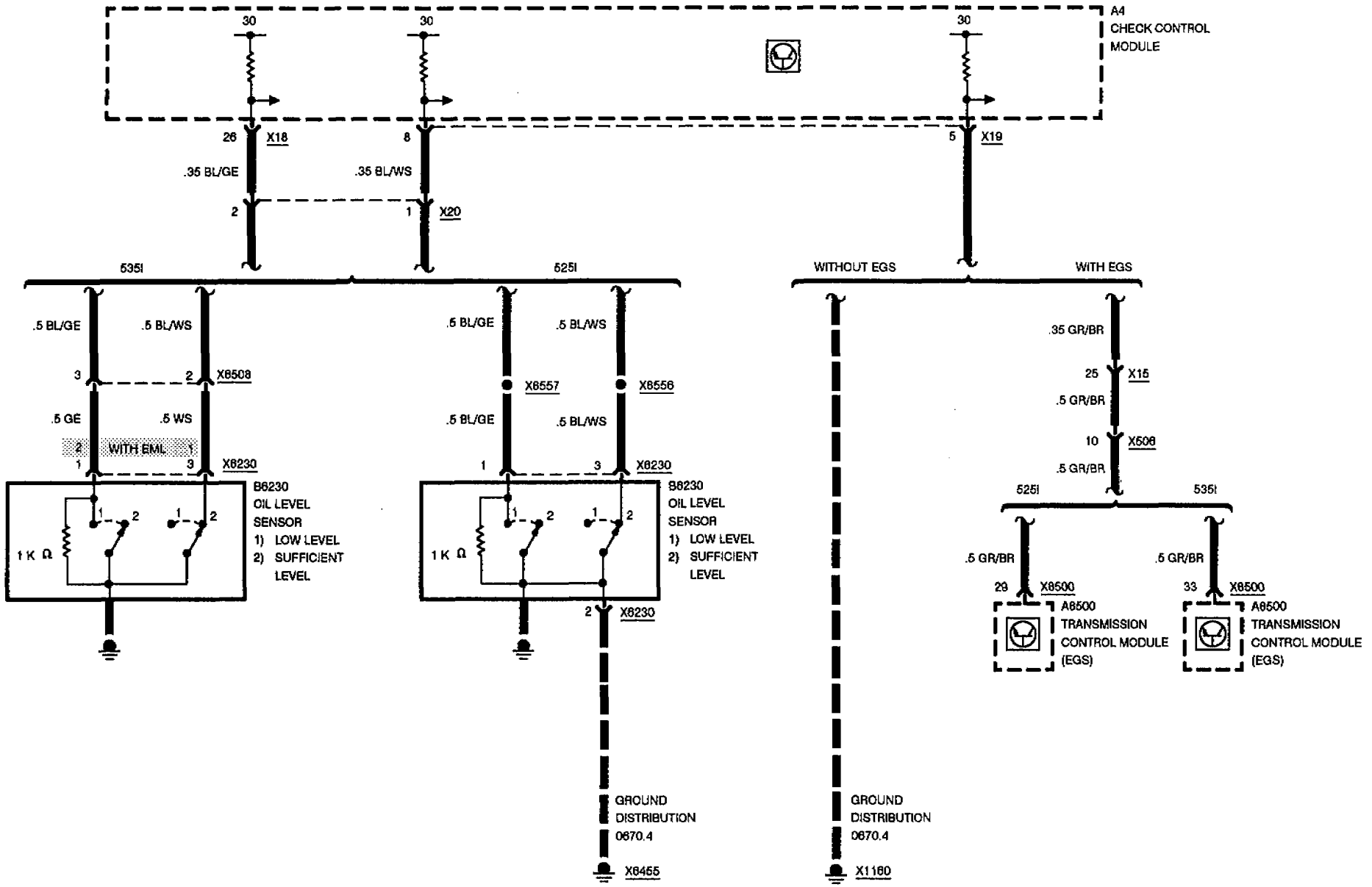
INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

CHECK CONTROL



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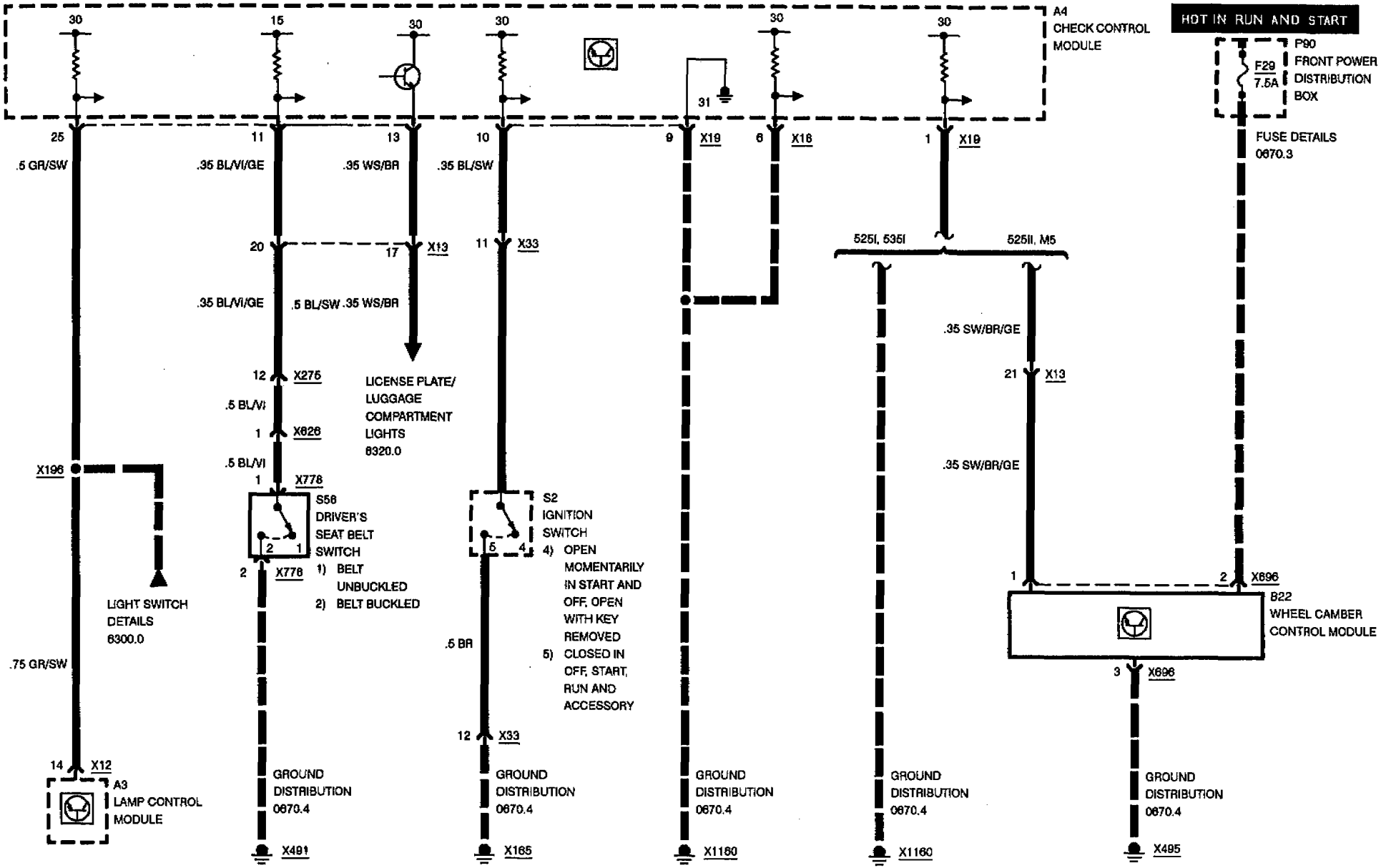
CHECK CONTROL



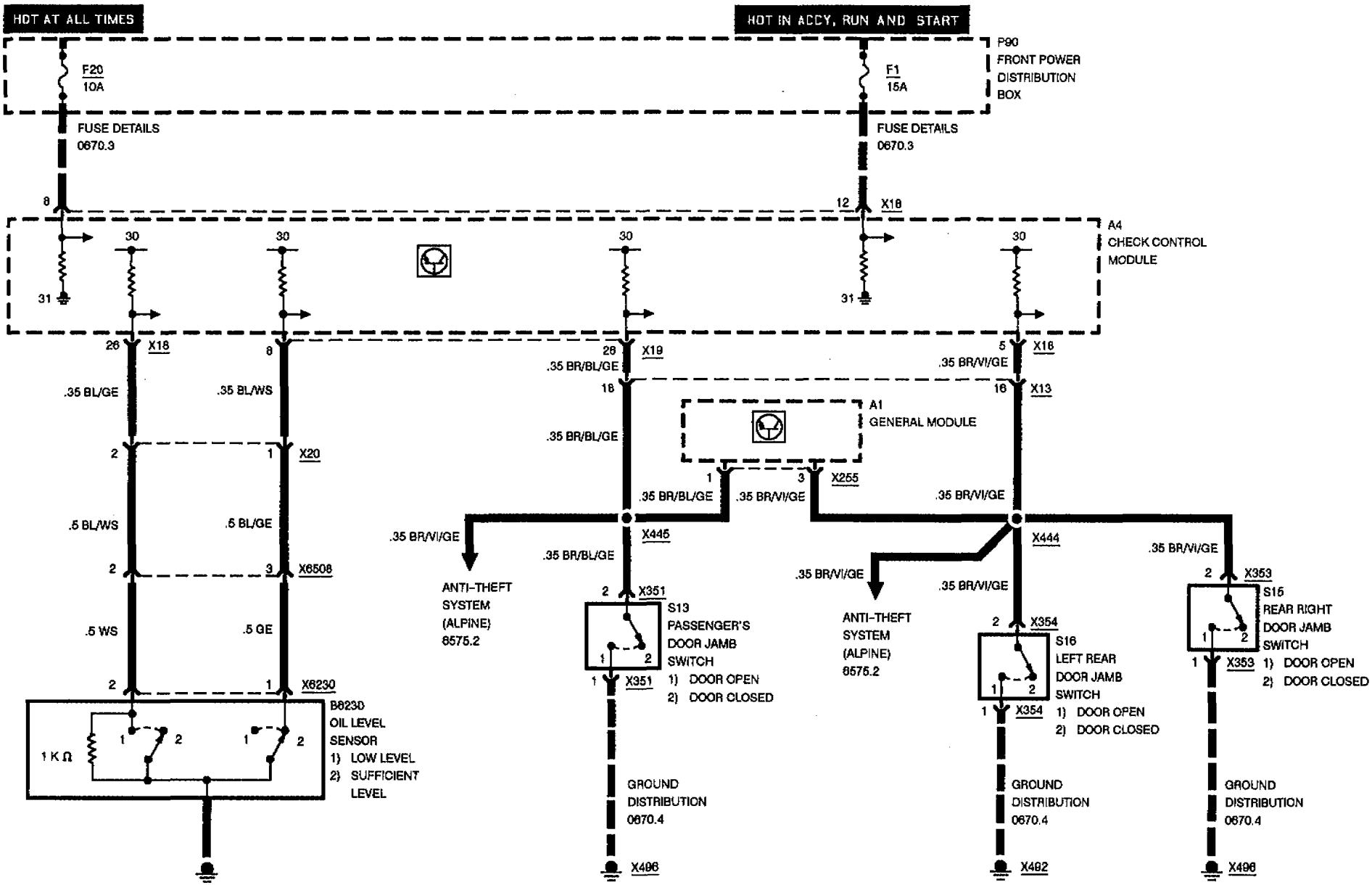
cardiagn.com

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

CHECK CONTROL



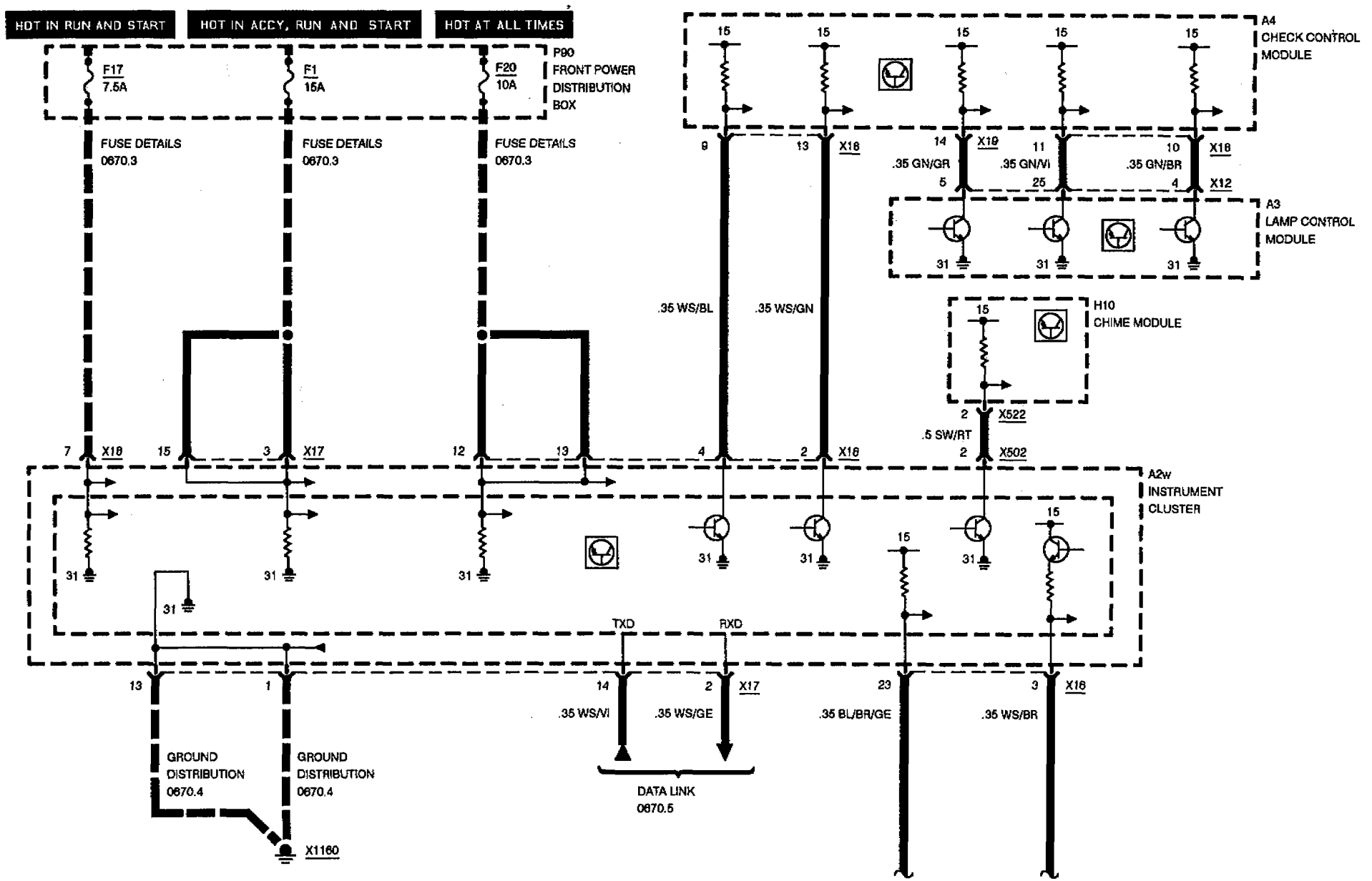
cardiagn.com


HOT AT ALL TIMES
HOT IN ACCY, RUN AND START
P90
FRONT POWER
DISTRIBUTION
BOX
F20
10A
F1
15A
FUSE DETAILS
0670.3
FUSE DETAILS
0670.3
8
12
X18
A4
CHECK CONTROL
MODULE
30
31
26
X18
8
.35 BL/GE
.35 BL/WS
2
1
X20
.5 BL/WS
.5 BL/GE
2
3
X6508
.5 WS
.5 GE
2
1
X6230
B6230
OIL LEVEL
SENSOR
1) LOW LEVEL
2) SUFFICIENT
LEVEL
1 K Ω
26
X19
.35 BR/BL/GE
18
.35 BR/BL/GE
A1
GENERAL MODULE
1
3
X255
.35 BR/BL/GE
.35 BR/VI/GE
5
X18
.35 BR/VI/GE
16
X13
.35 BR/VI/GE
X445
.35 BR/BL/GE
ANTI-THEFT
SYSTEM
(ALPINE)
6575.2
2
X351
S13
PASSENGER'S
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
1
X351
GROUND
DISTRIBUTION
0670.4
X486
X444
.35 BR/VI/GE
.35 BR/VI/GE
ANTI-THEFT
SYSTEM
(ALPINE)
6575.2
2
X354
S16
LEFT REAR
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
1
X354
GROUND
DISTRIBUTION
0670.4
X482
.35 BR/VI/GE
2
X353
S15
REAR RIGHT
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
1
X353
GROUND
DISTRIBUTION
0670.4
X496

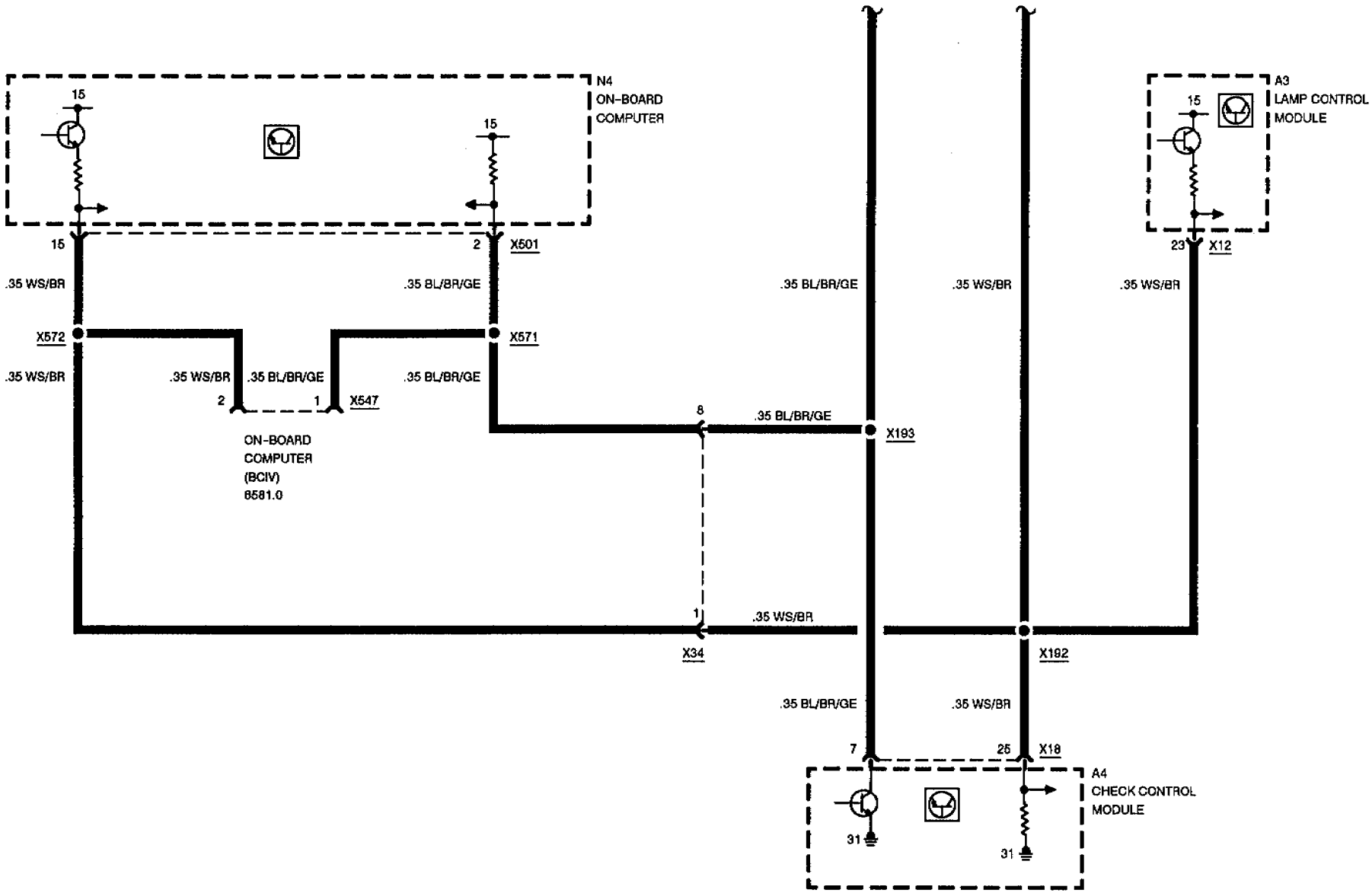
carplay.com

INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

DATA LINK



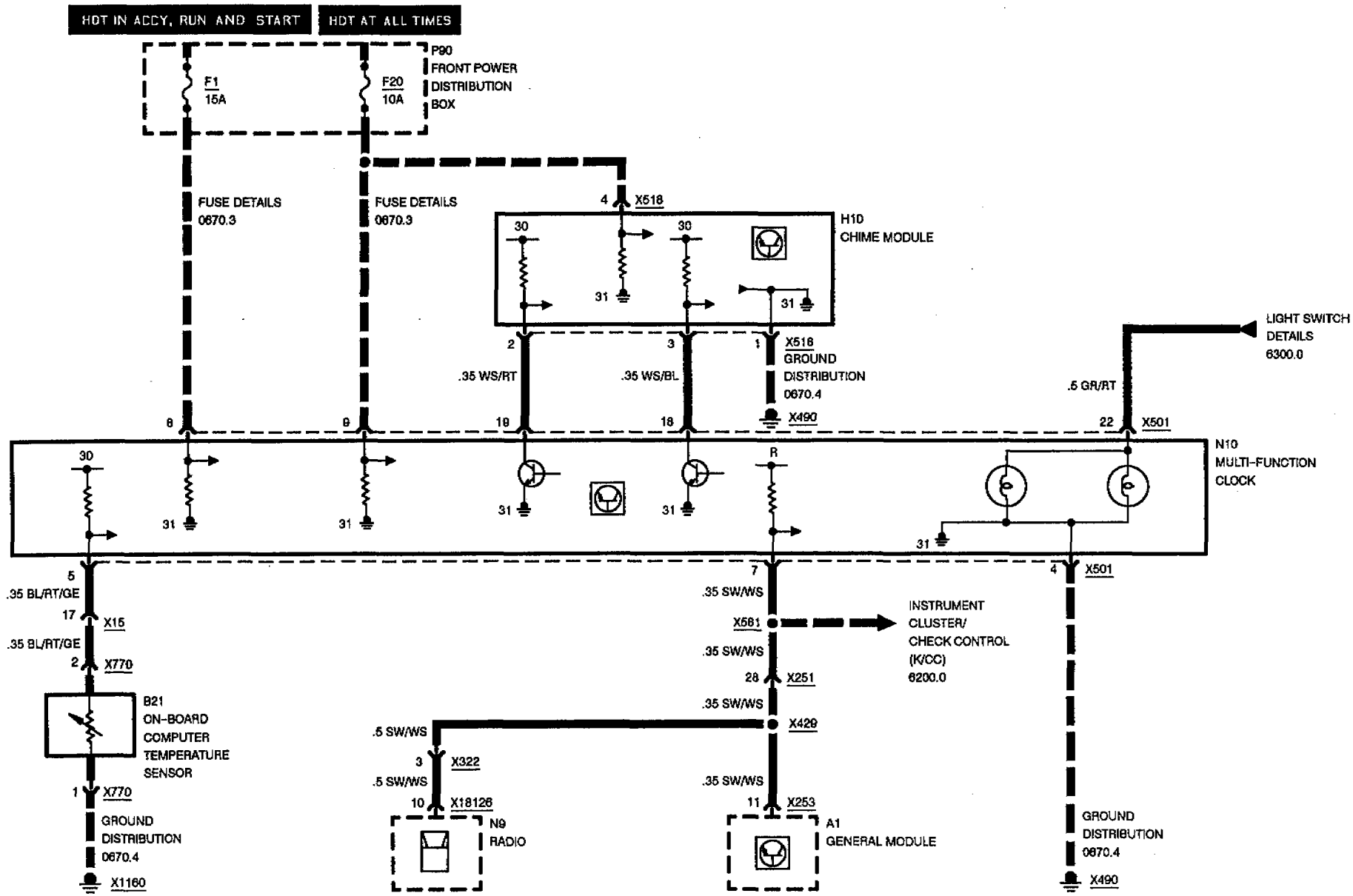
cardiagn.com


N4
ON-BOARD
COMPUTER
15
15
15
2
X501
.35 WS/BR
.35 BL/BR/GE
X572
X571
.35 WS/BR
.35 WS/BR
.35 BL/BR/GE
.35 BL/BR/GE
2
1
X547
ON-BOARD
COMPUTER
(BCIV)
6581.0
8
.35 BL/BR/GE
X193
1
.35 WS/BR
X34
.35 BL/BR/GE
.35 WS/BR
.35 WS/BR
A3
LAMP CONTROL
MODULE
15
23
X12
X192
.35 BL/BR/GE
.35 WS/BR
7
25
X18
A4
CHECK CONTROL
MODULE
31
31

carplan.com

CLOCK

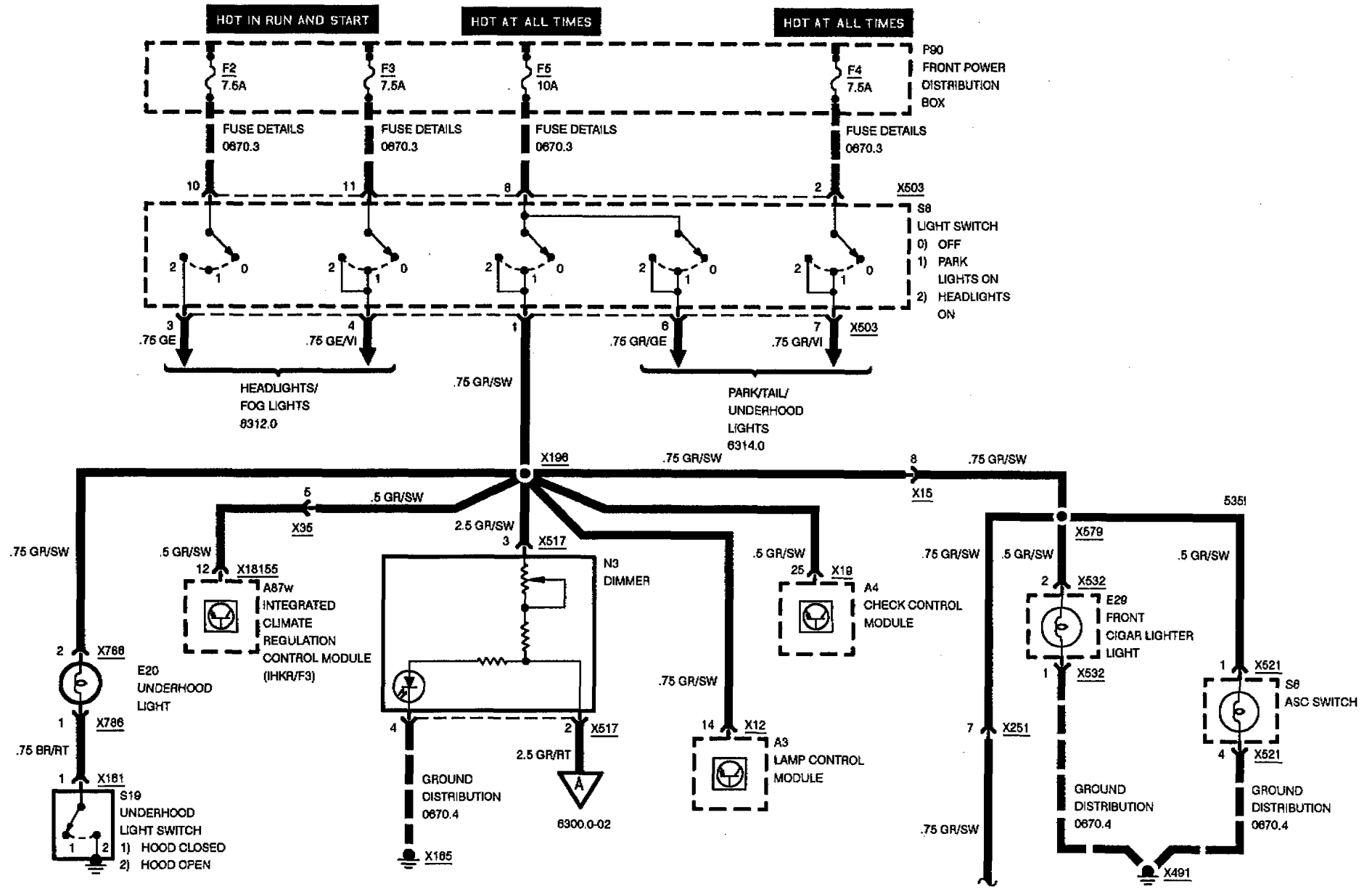
WITHOUT ON-BOARD COMPUTER



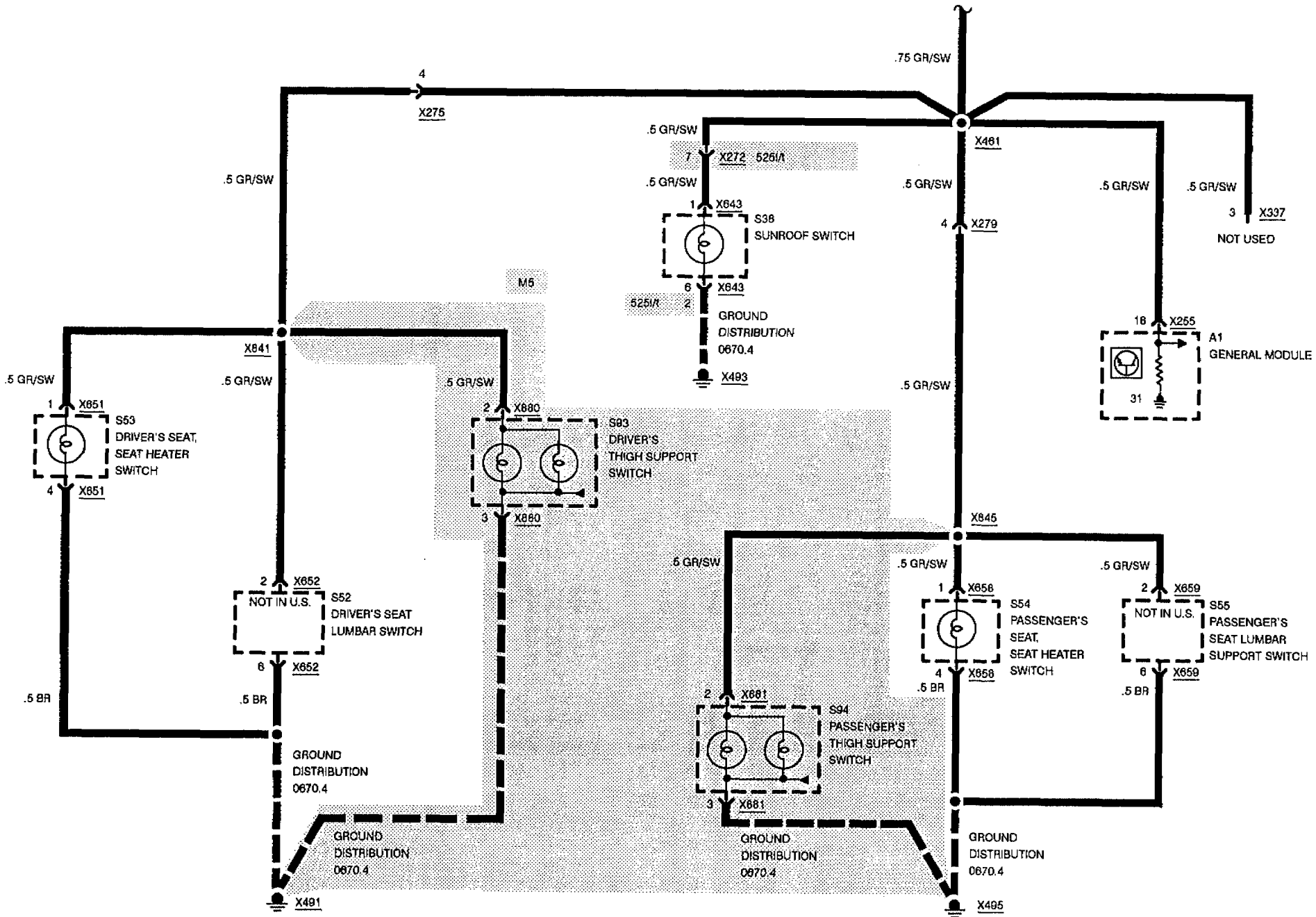
cardiagn.com

cardiagn.com

LIGHT SWITCH DETAILS

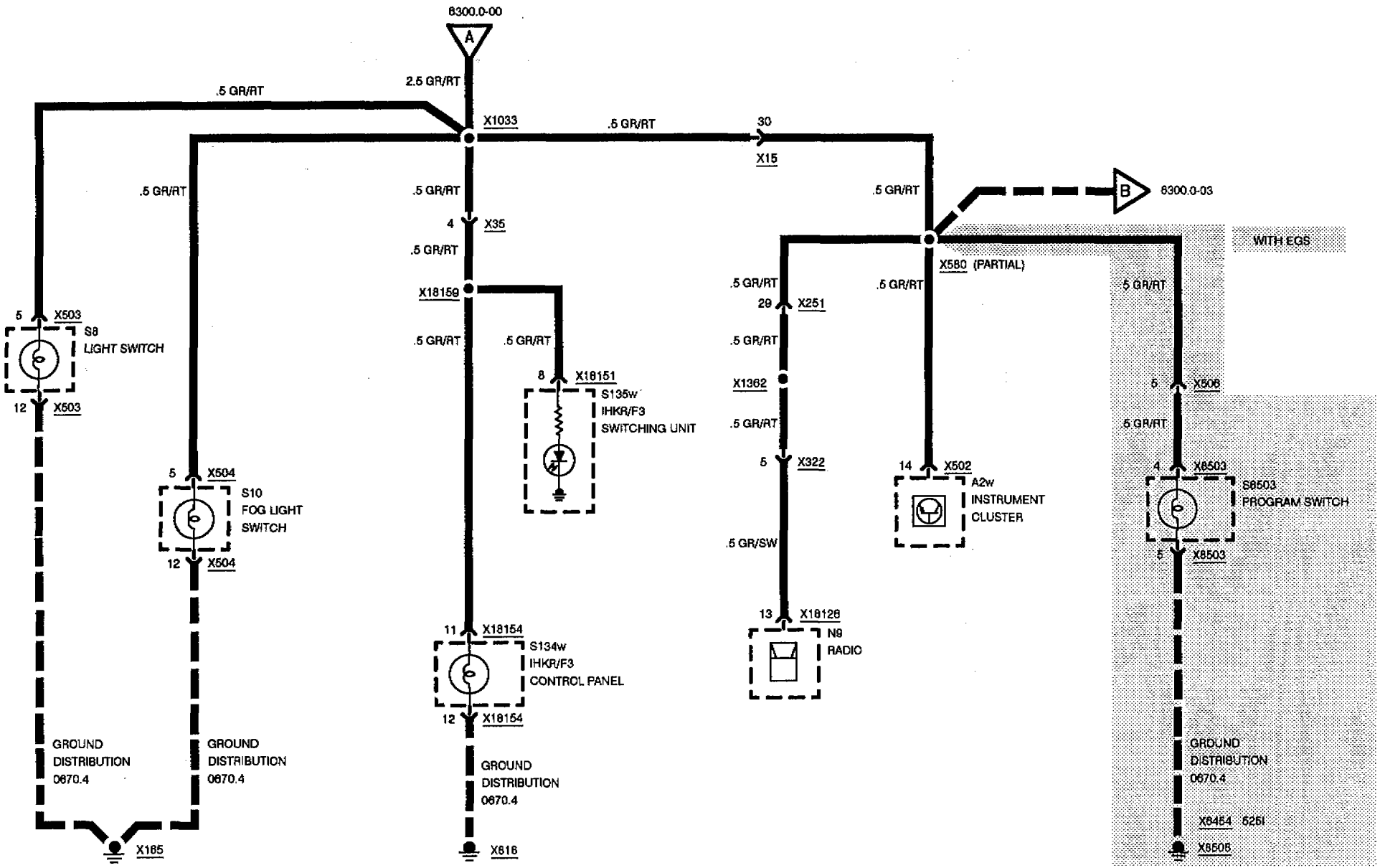


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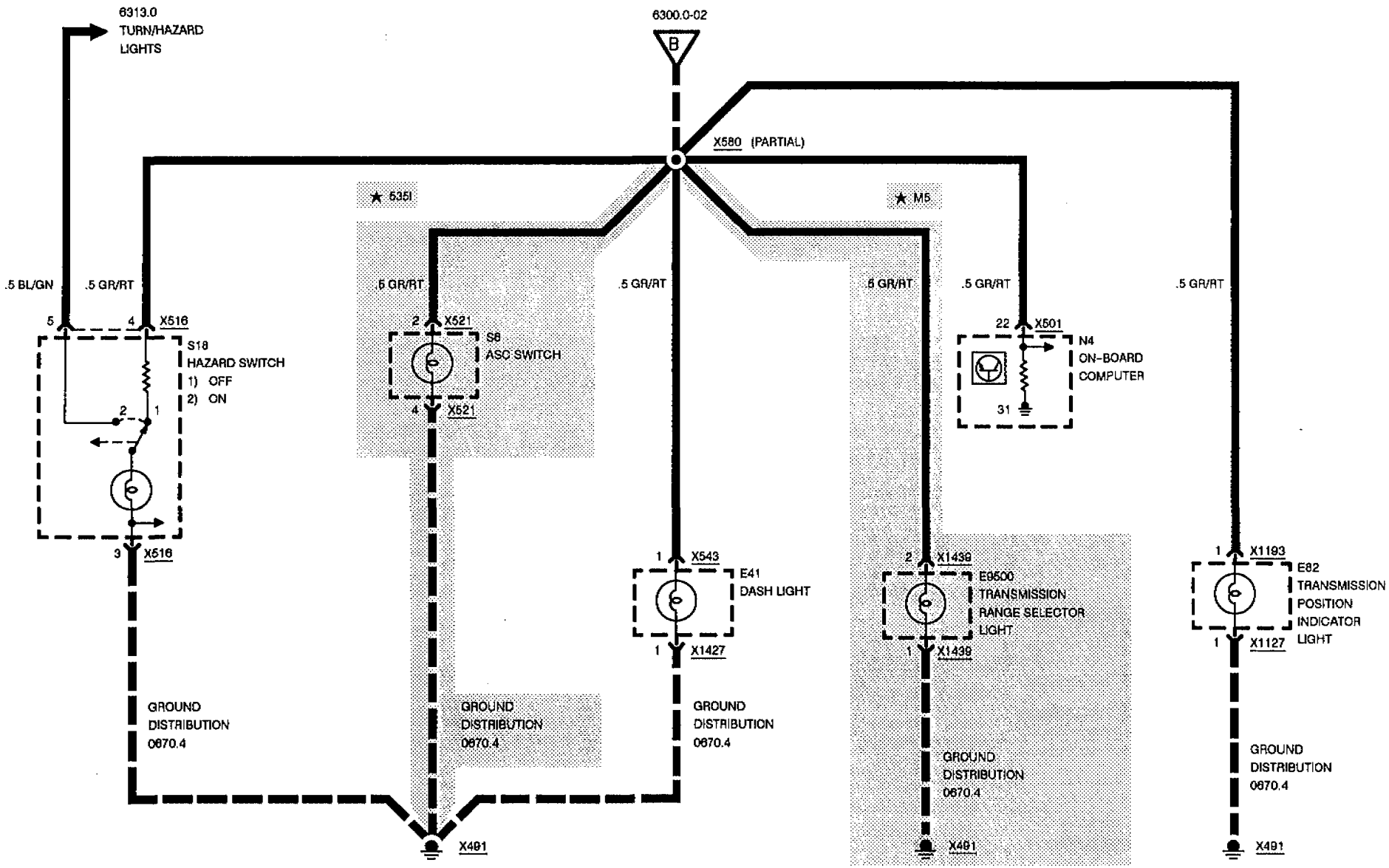
cardiagn.com

LIGHT SWITCH DETAILS



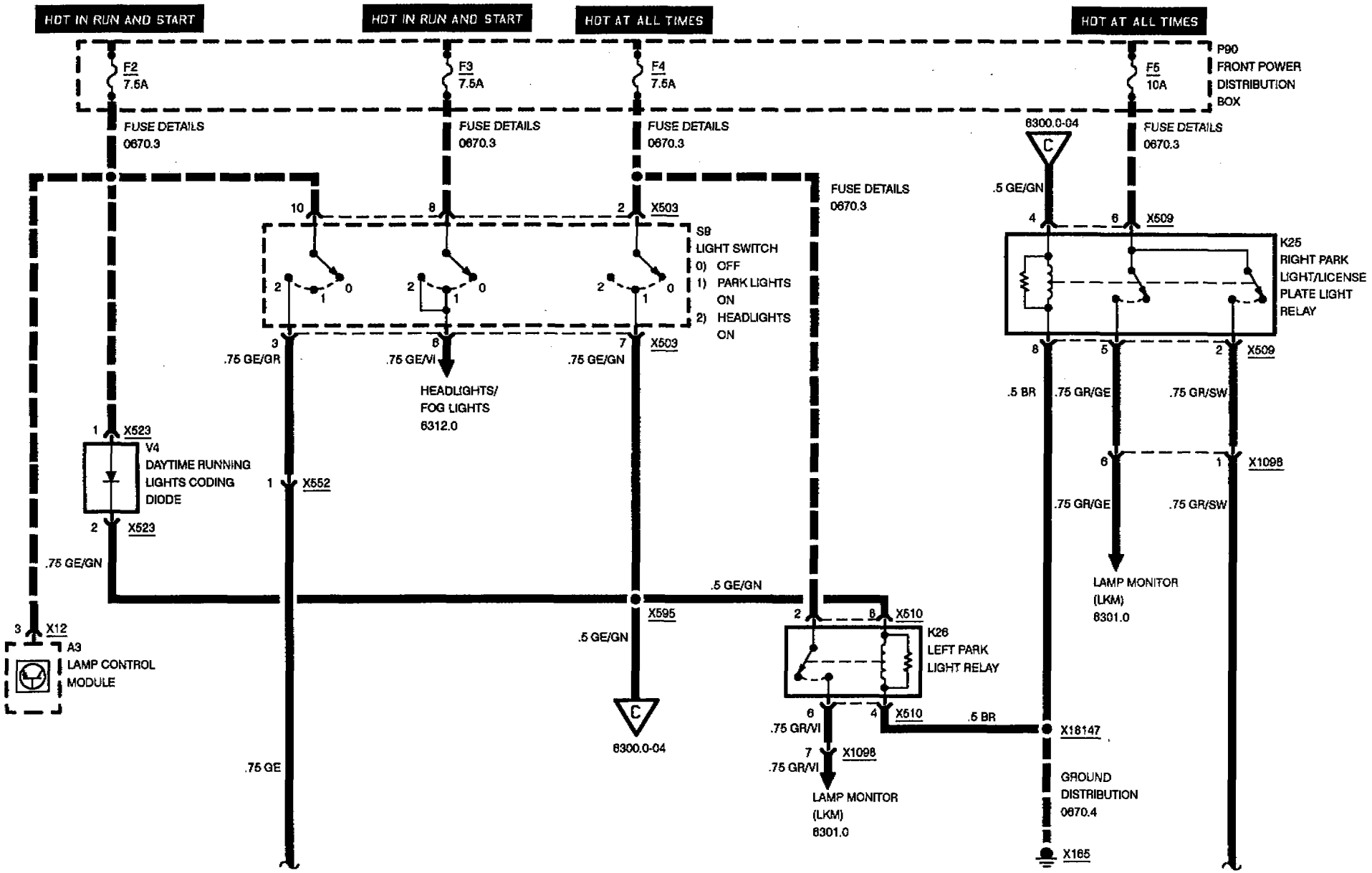
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LIGHT SWITCH DETAILS

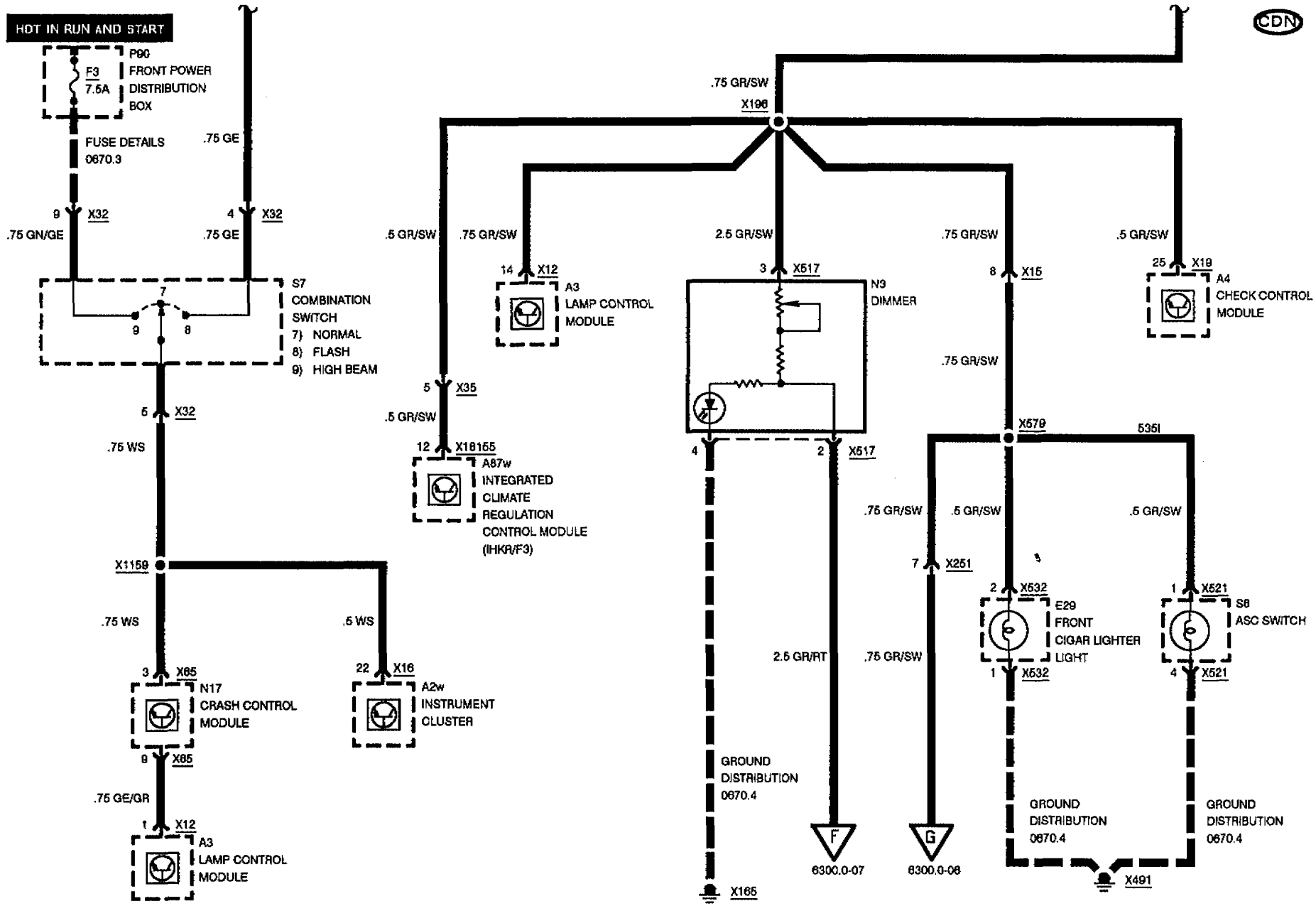


carplan.com

LIGHT SWITCH DETAILS

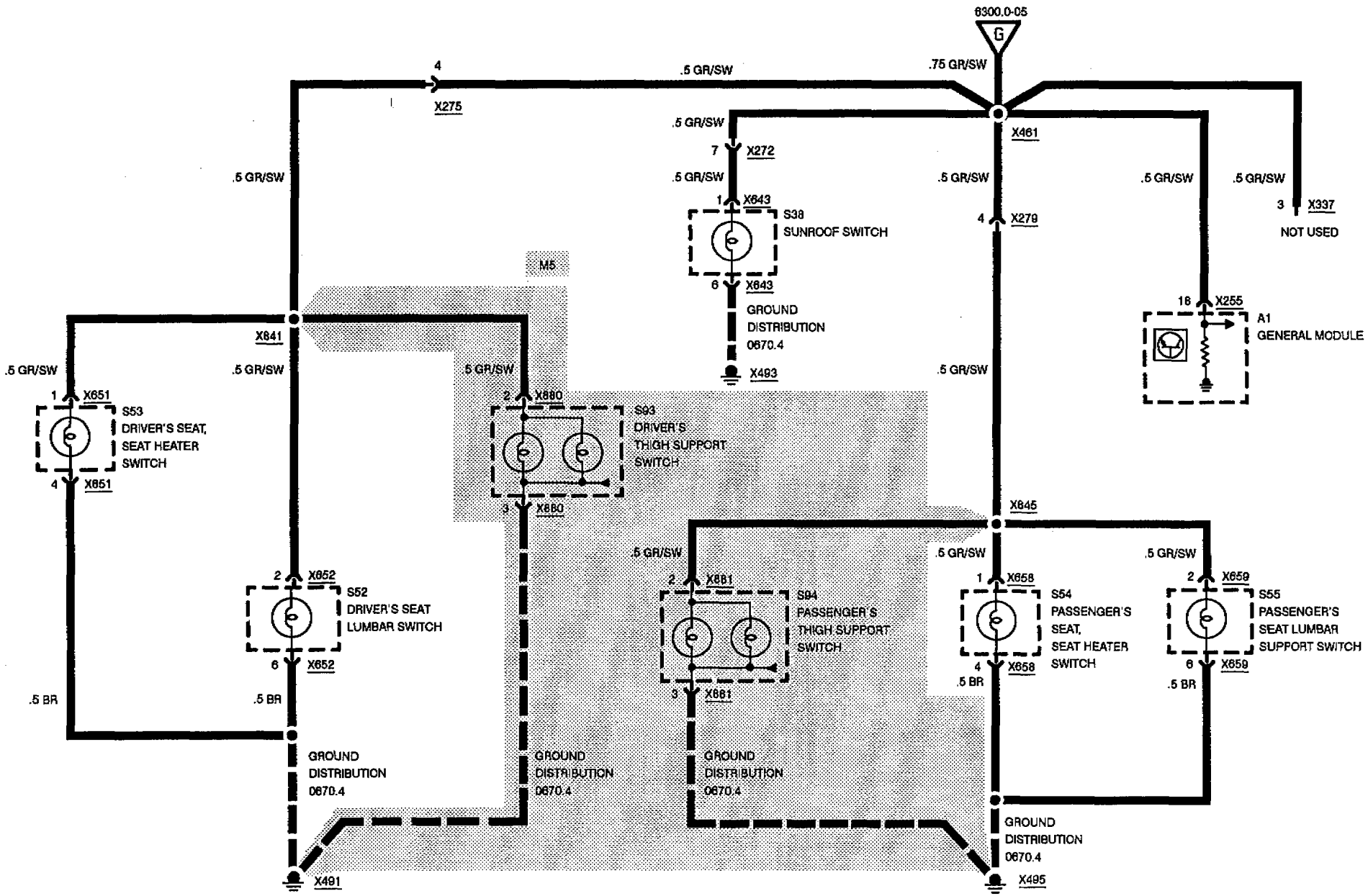


cardiagn.com



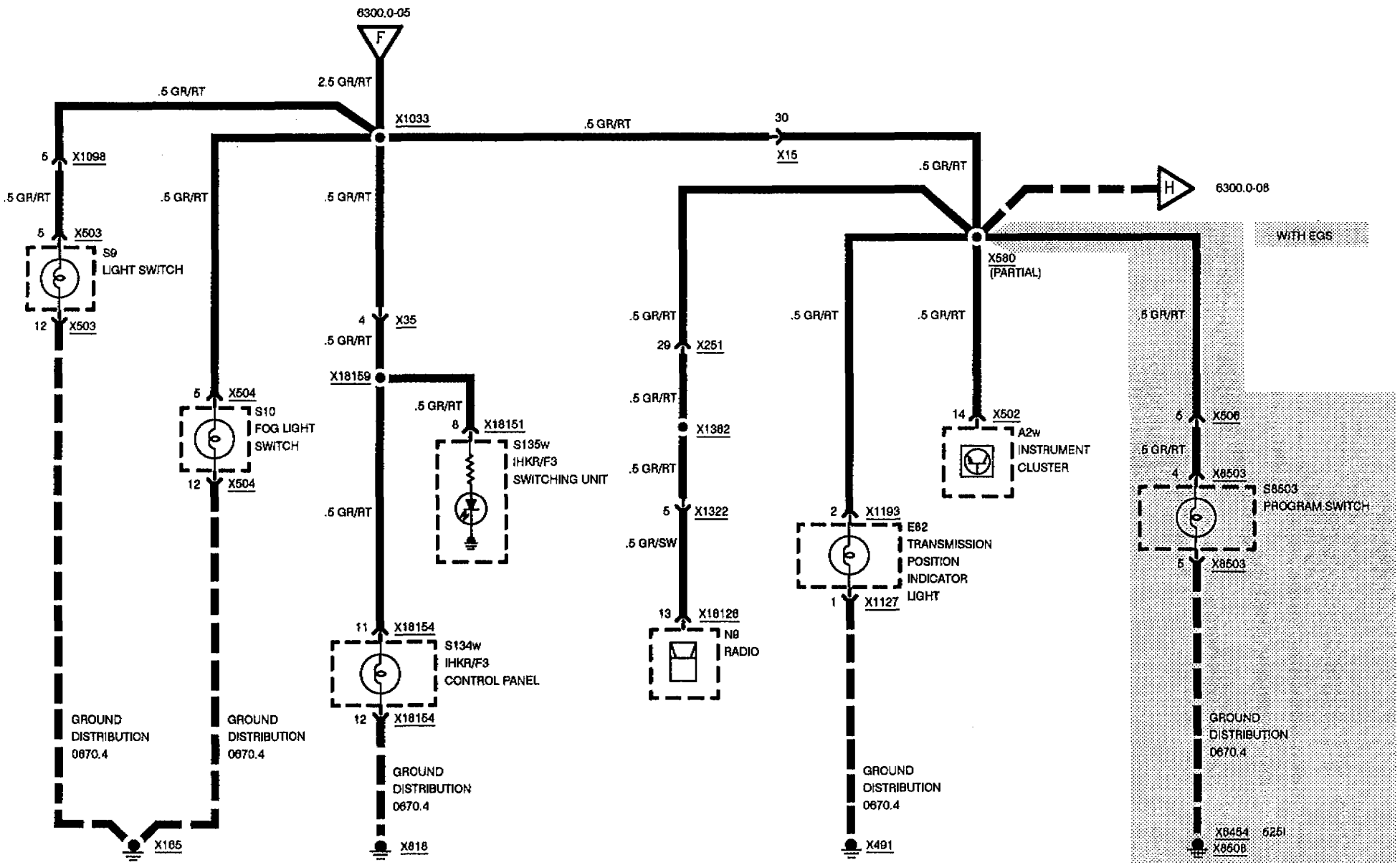
cardiagn.com

LIGHT SWITCH DETAILS



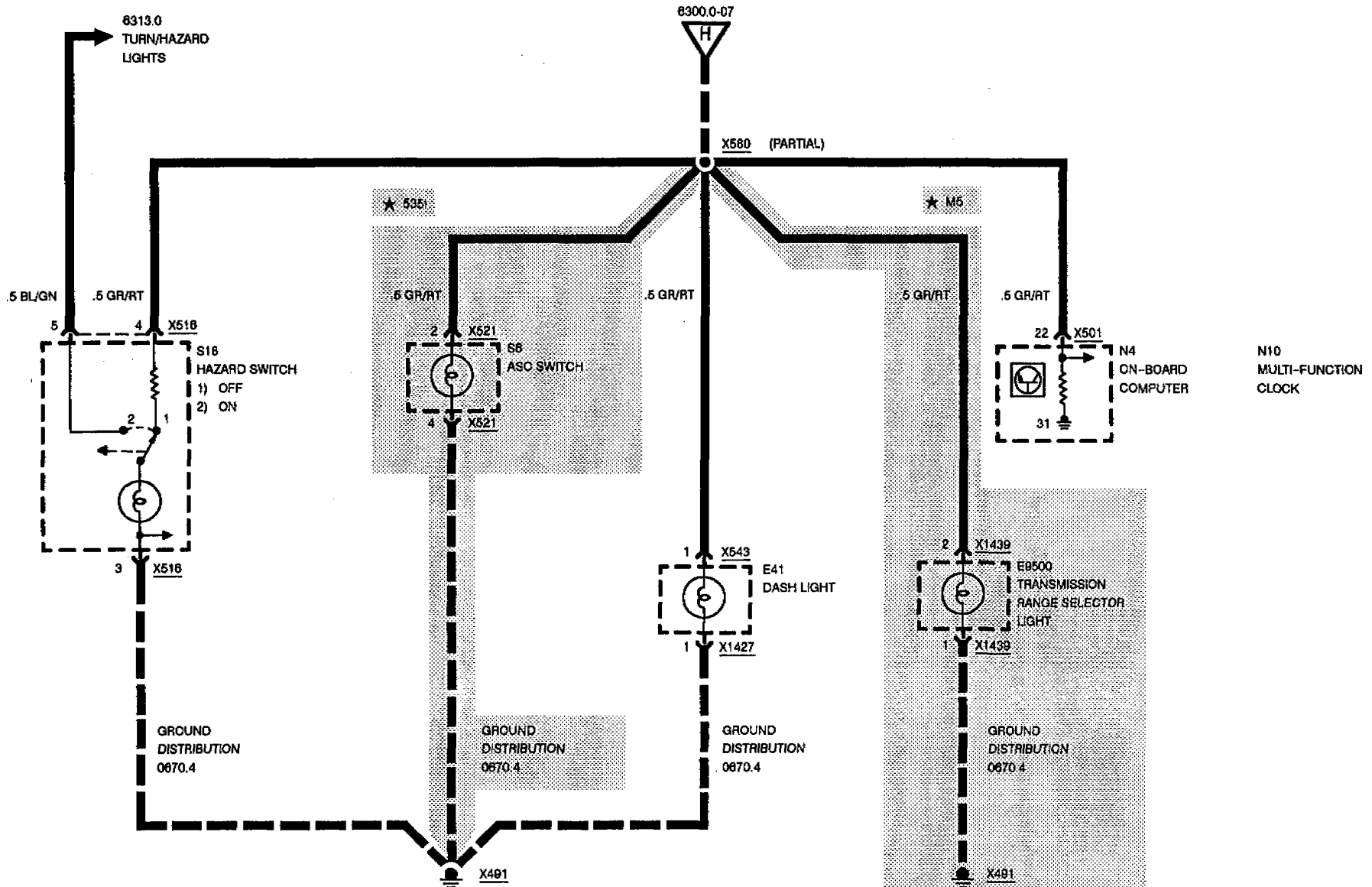
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LIGHT SWITCH DETAILS



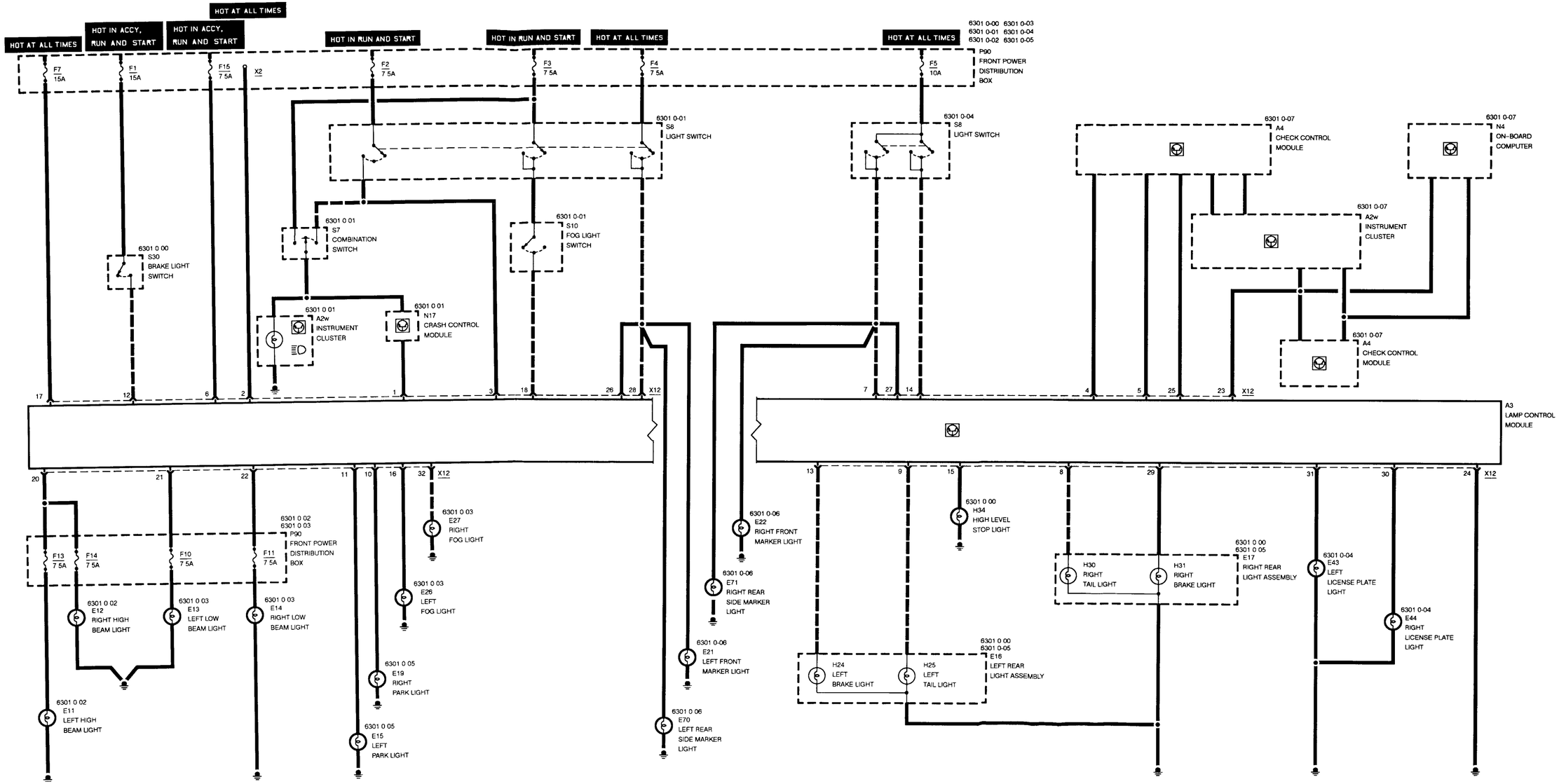
carlagu.com

LIGHT SWITCH DETAILS

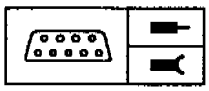


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12/93 6301 0 1993
12/93 6301 0 1993



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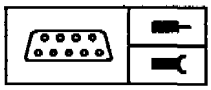
Pin Assignments

X12

Pin	Type	Description/Function	Connection
1	E	High beam signal	Crash control unit
2	E	Voltage supply (terminal 30)	Front power distribution box
3	E	Headlights signal	Light switch
4	A	Data link to CCM	Check control module
5	A	Data link to CCM	Check control module
6	E	Voltage supply (terminal R)	Front power distribution box
7	E	Tail light signal, right	Light switch
8	A	Tail light power, right	Rear light assembly, right
9	A	Tail light power, left	Rear light assembly, left
10	A	Park light power, right	Front light assembly, right
11	A	Park light power, left	Front light assembly, left
12	E	Brake pedal status	Brake light switch
13	A	Brake light power, left	Rear light assembly, left
14	E	Park lights signal	Light switch
15	A	High level stop light power	High level stop light
16	A	Fog light power, left	Fog light, left
17	E	Fog lights power	Front power distribution box
18	E	Fog light signal	Fog light switch
19		Not used	
20	A	High beam light power	Fuses/Front power distribution box
21	A	Low beam power, left	Fuses/Front power distribution box
22	A	Low beam power, right	Fuses/Front power distribution box
23	E	Data link to CCM	Check control module
24	M	Ground	Body ground point
25	E	Data link to CCM	Check control module
26	E	Tail light signal, left	Light switch
27	E	Park light signal, right	Light switch
28	E	Park light signal, left	Light switch
29	A	Brake light power, right	Brake light, right
30	A	License plate light power, right	License plate light, right

E = Input, A = Output, M = Ground

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Pin Assignments

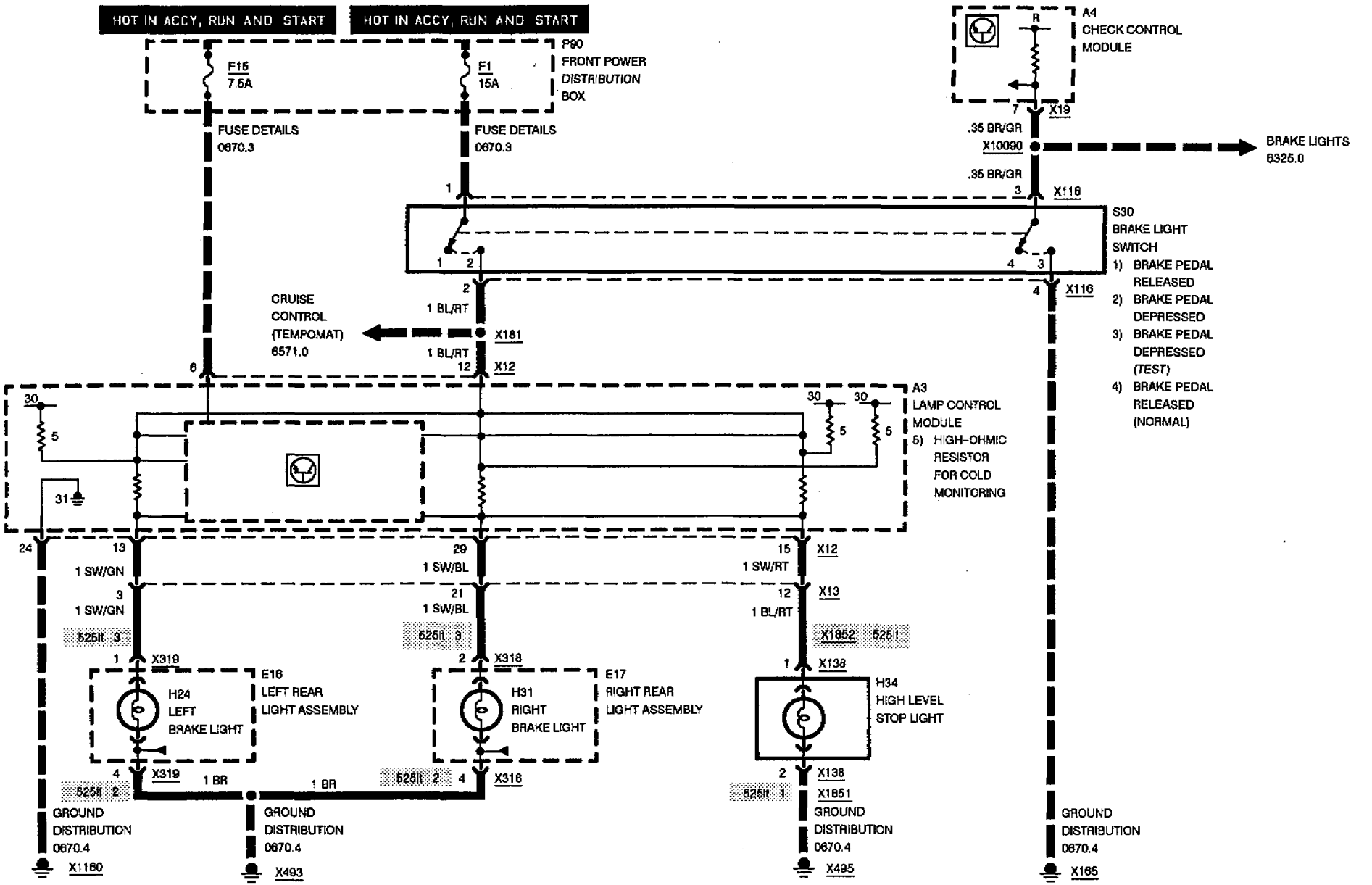
Pin	Type	Description/Function	Connection
31	A	License plate light power, left	License plate light, left
32	A	Fog light power, right	Fog light, right

E = Input, A = Output, M = Ground

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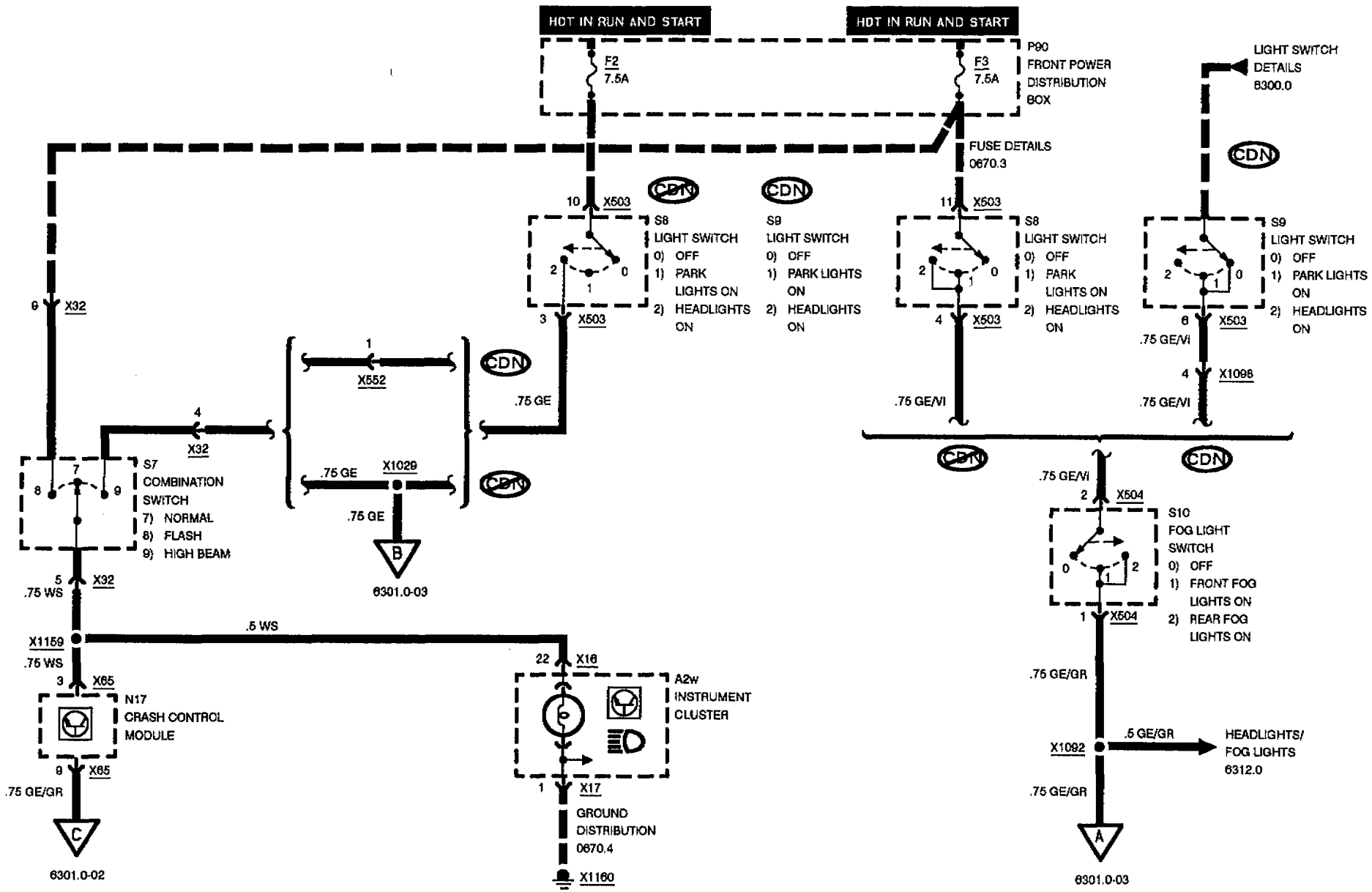
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LAMP MONITOR (LKM)



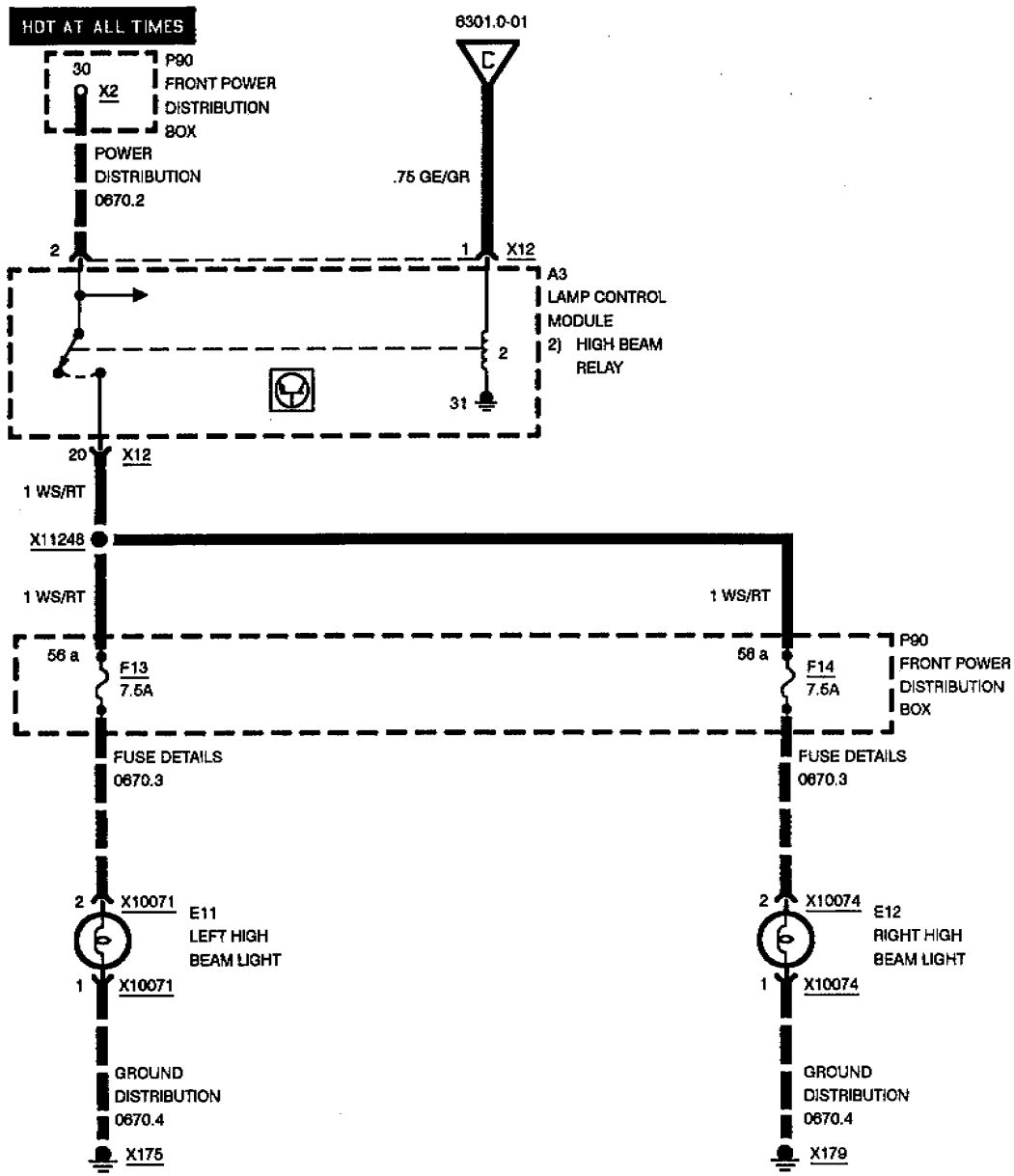
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LAMP MONITOR (LKM)



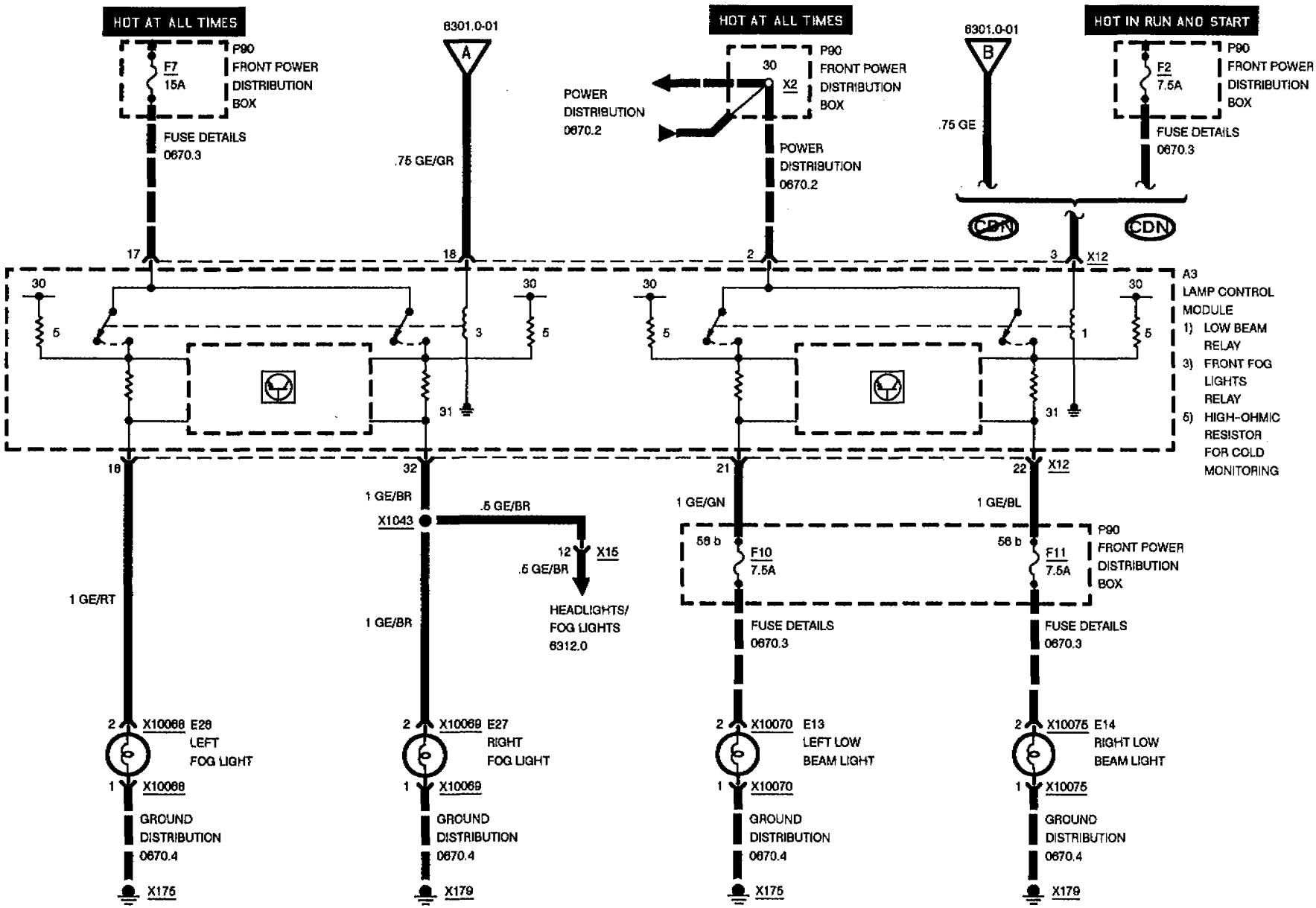
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LAMP MONITOR (LKM)



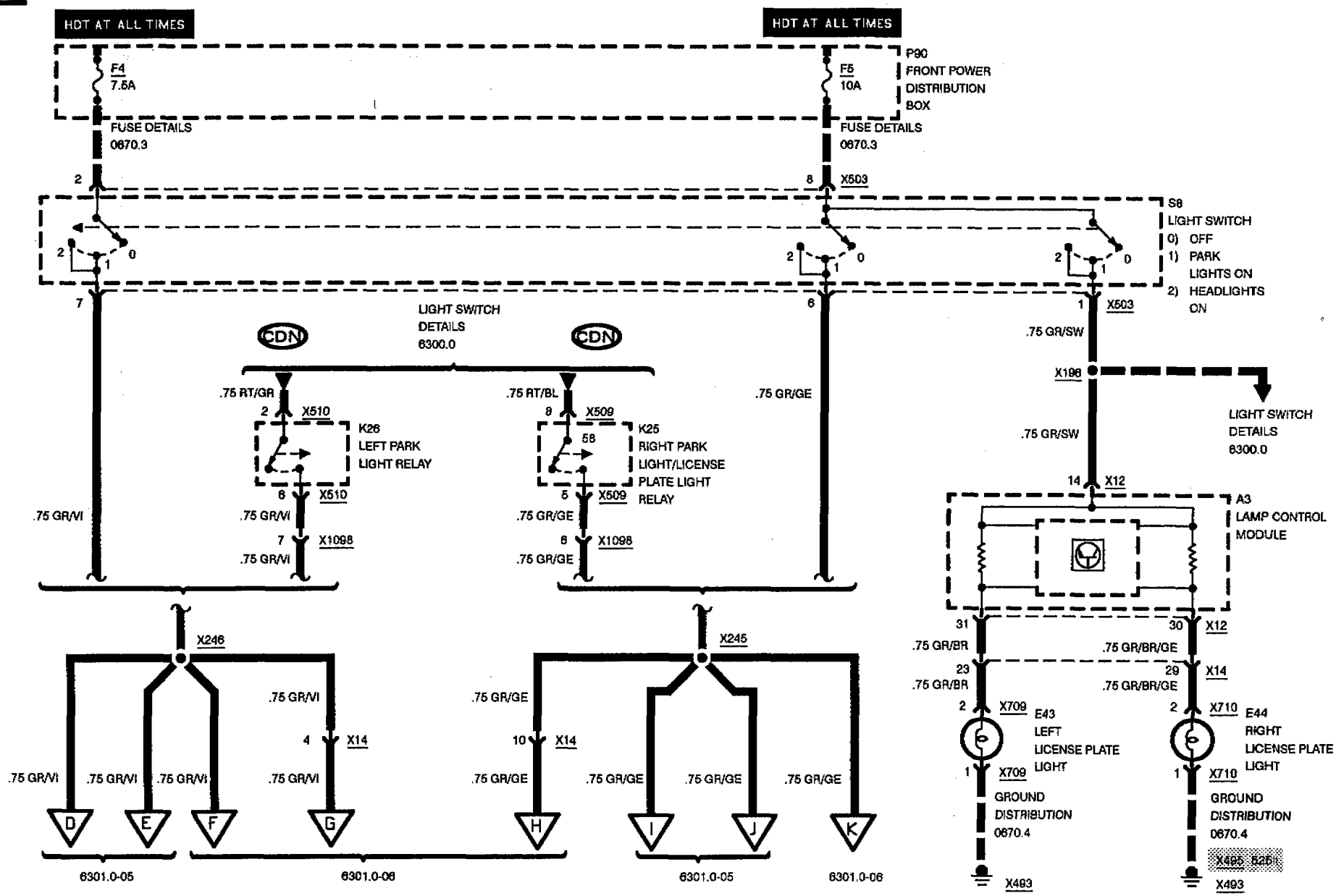
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LAMP MONITOR (LKM)



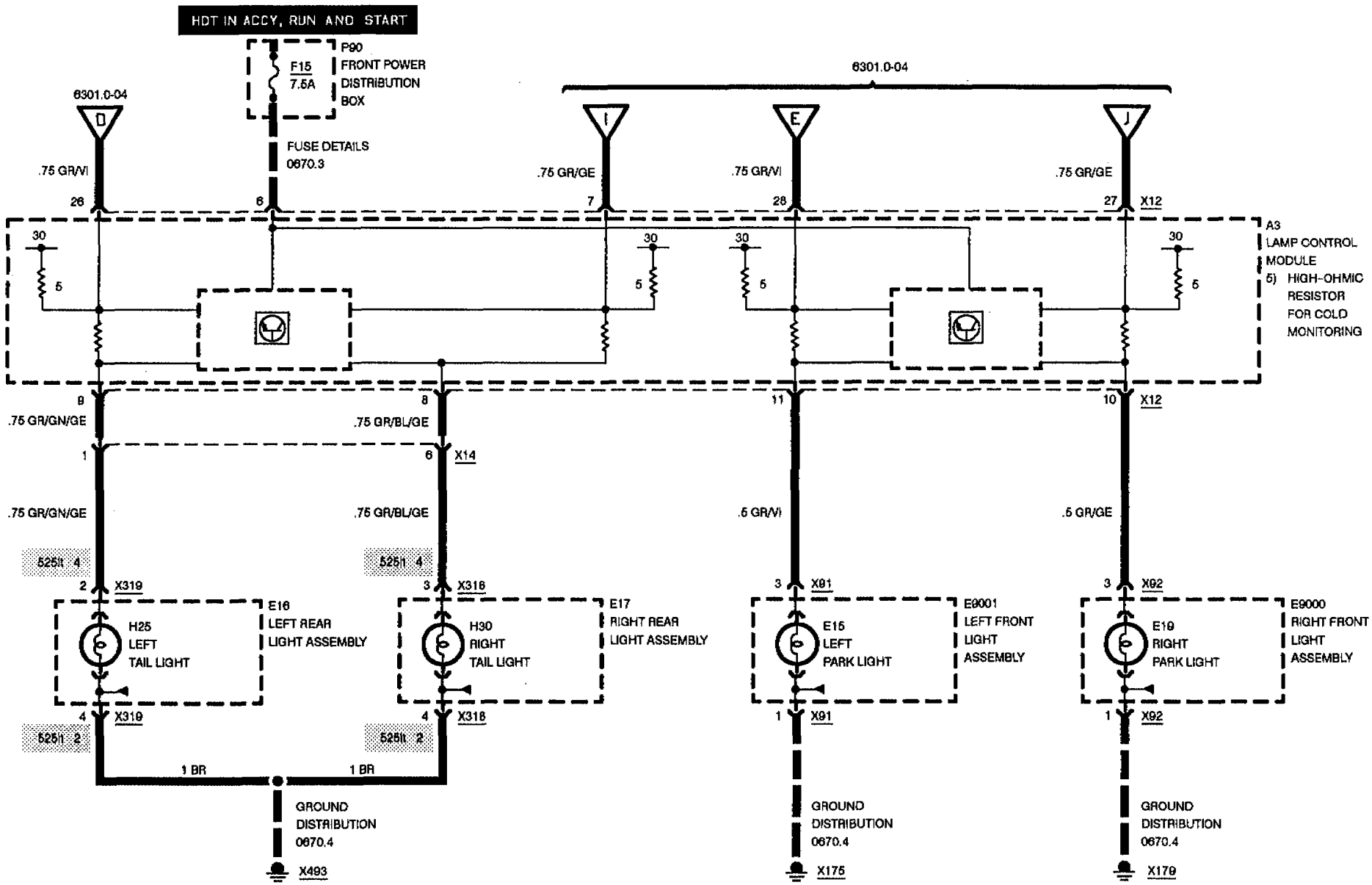
carplan.com

LAMP MONITOR (LKM)



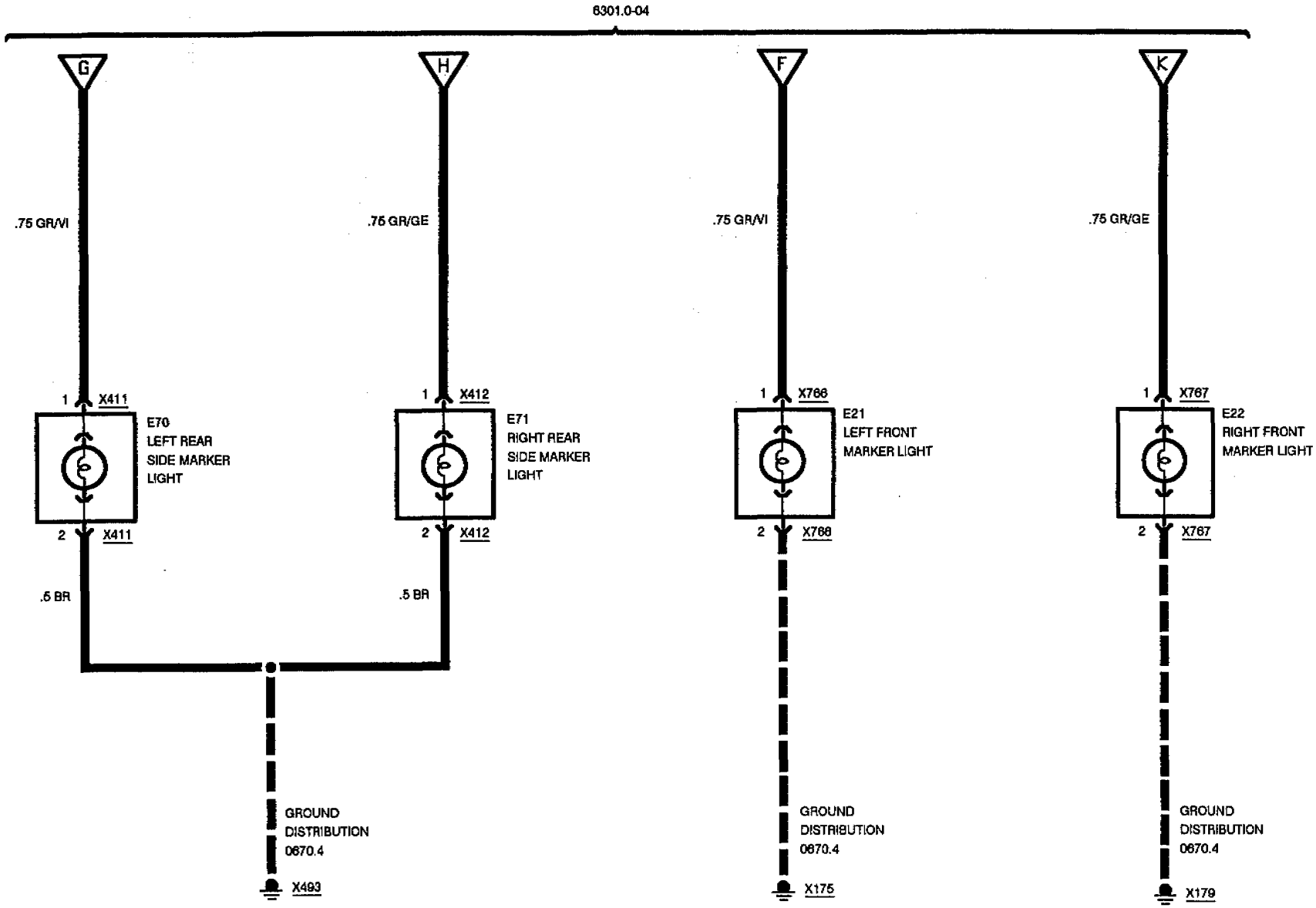
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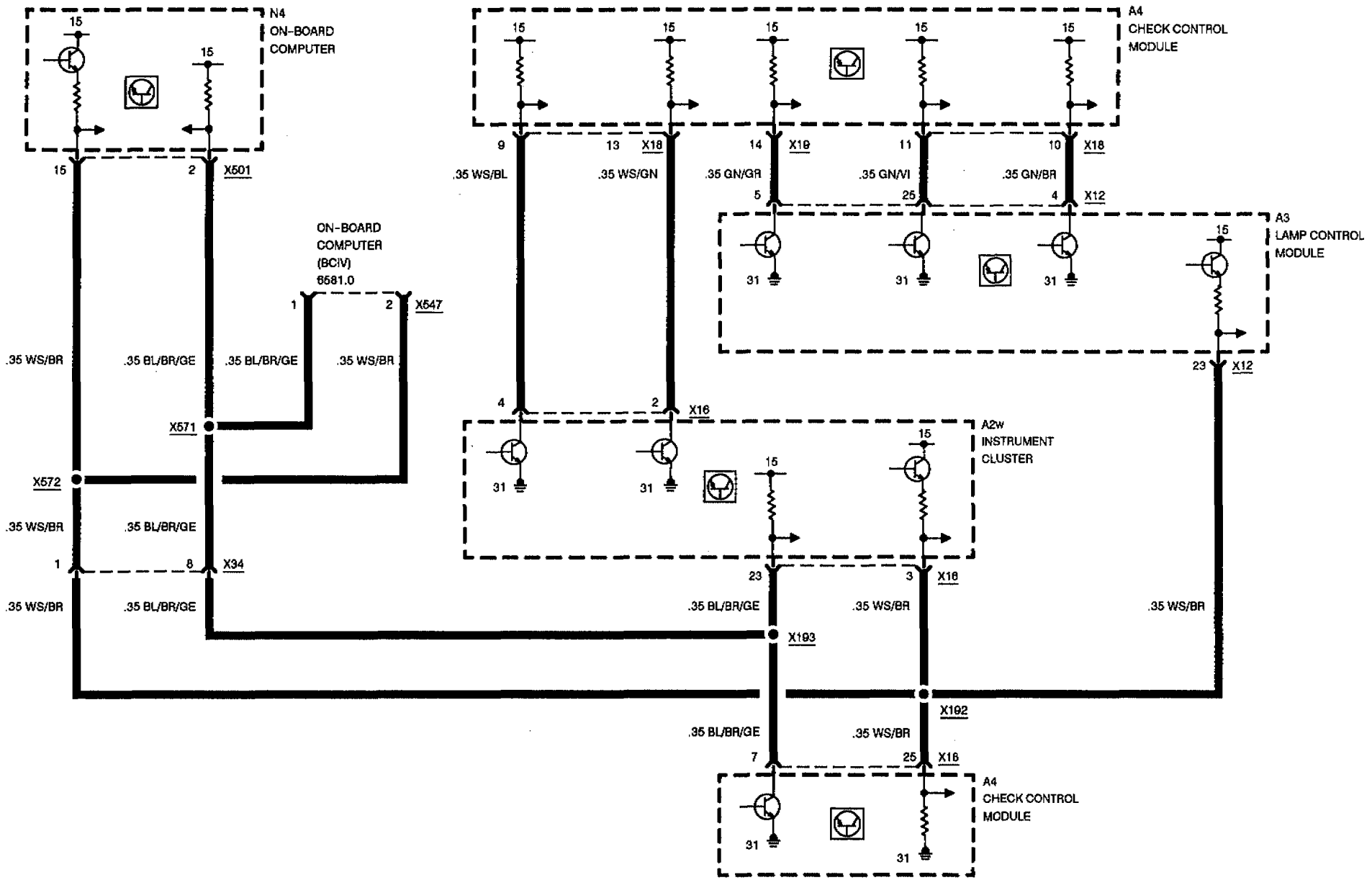
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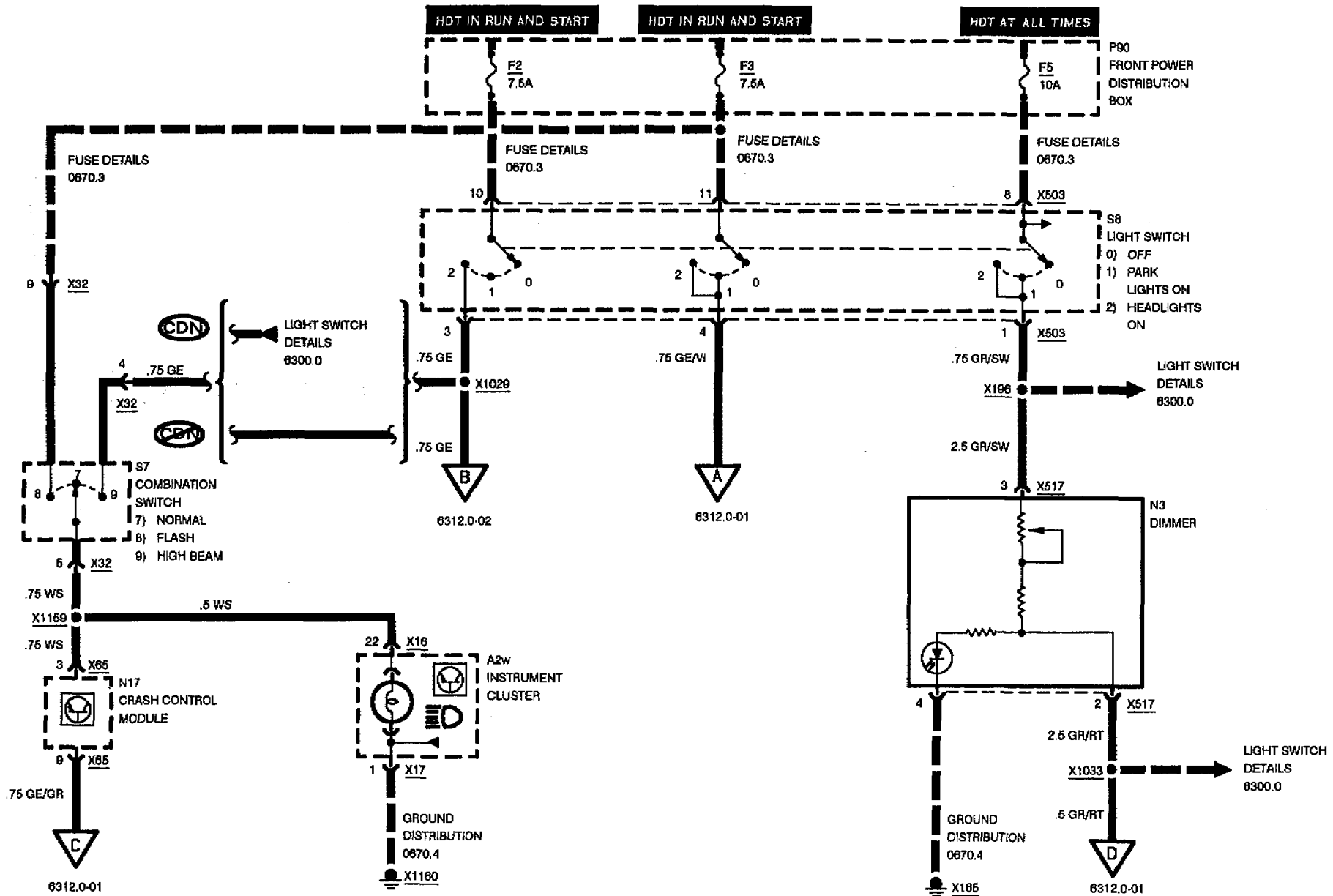
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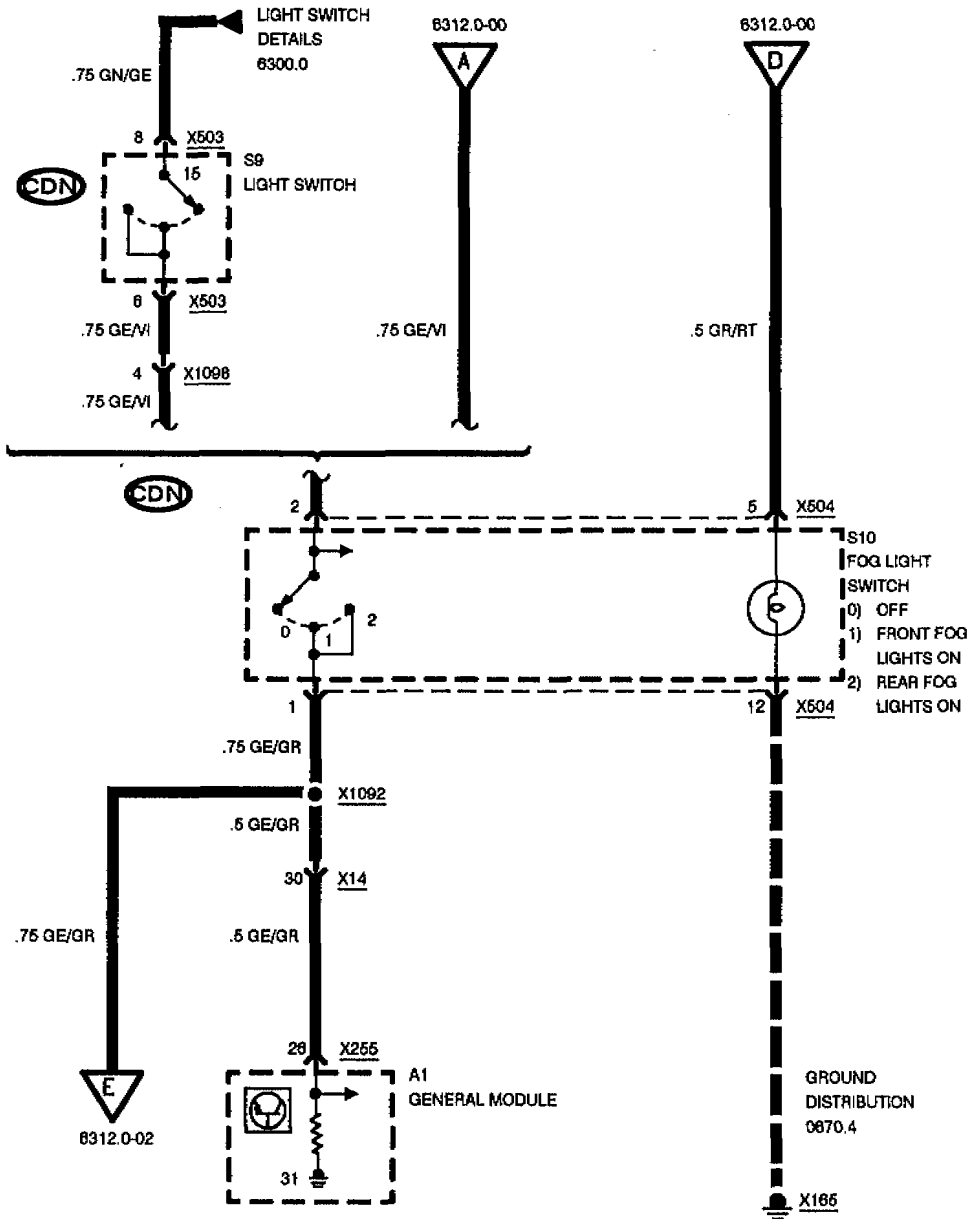
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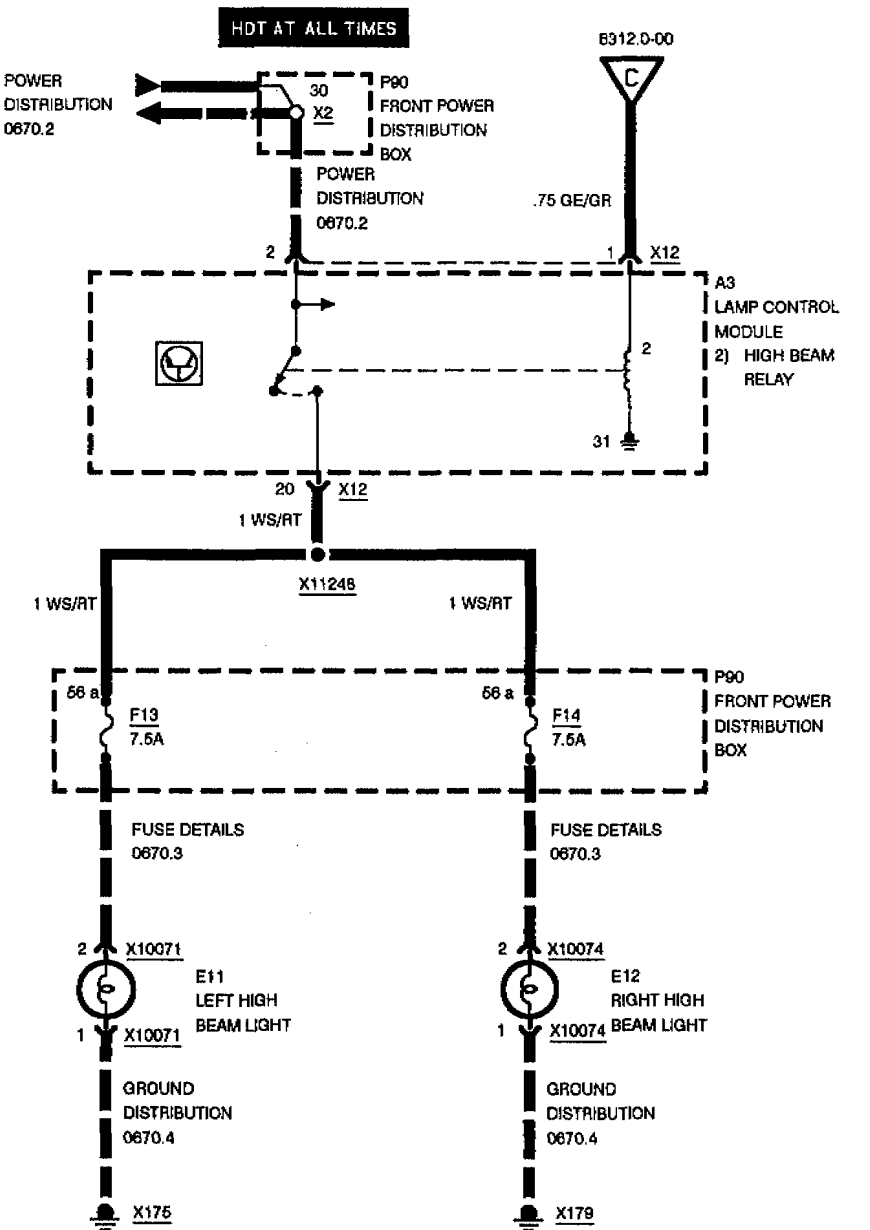
HEADLIGHTS/ FOG LIGHTS



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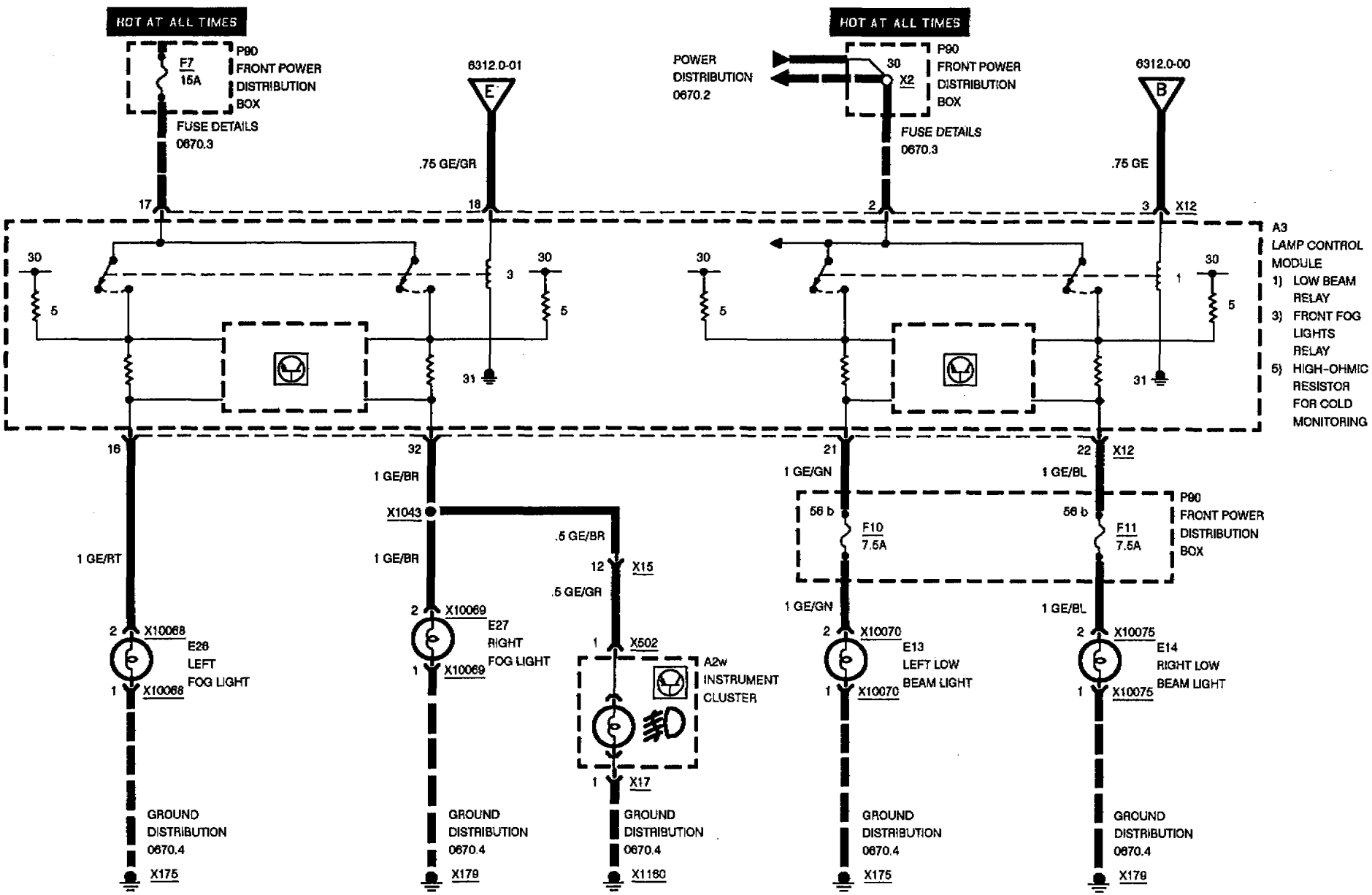
HEADLIGHTS/ FOG LIGHTS





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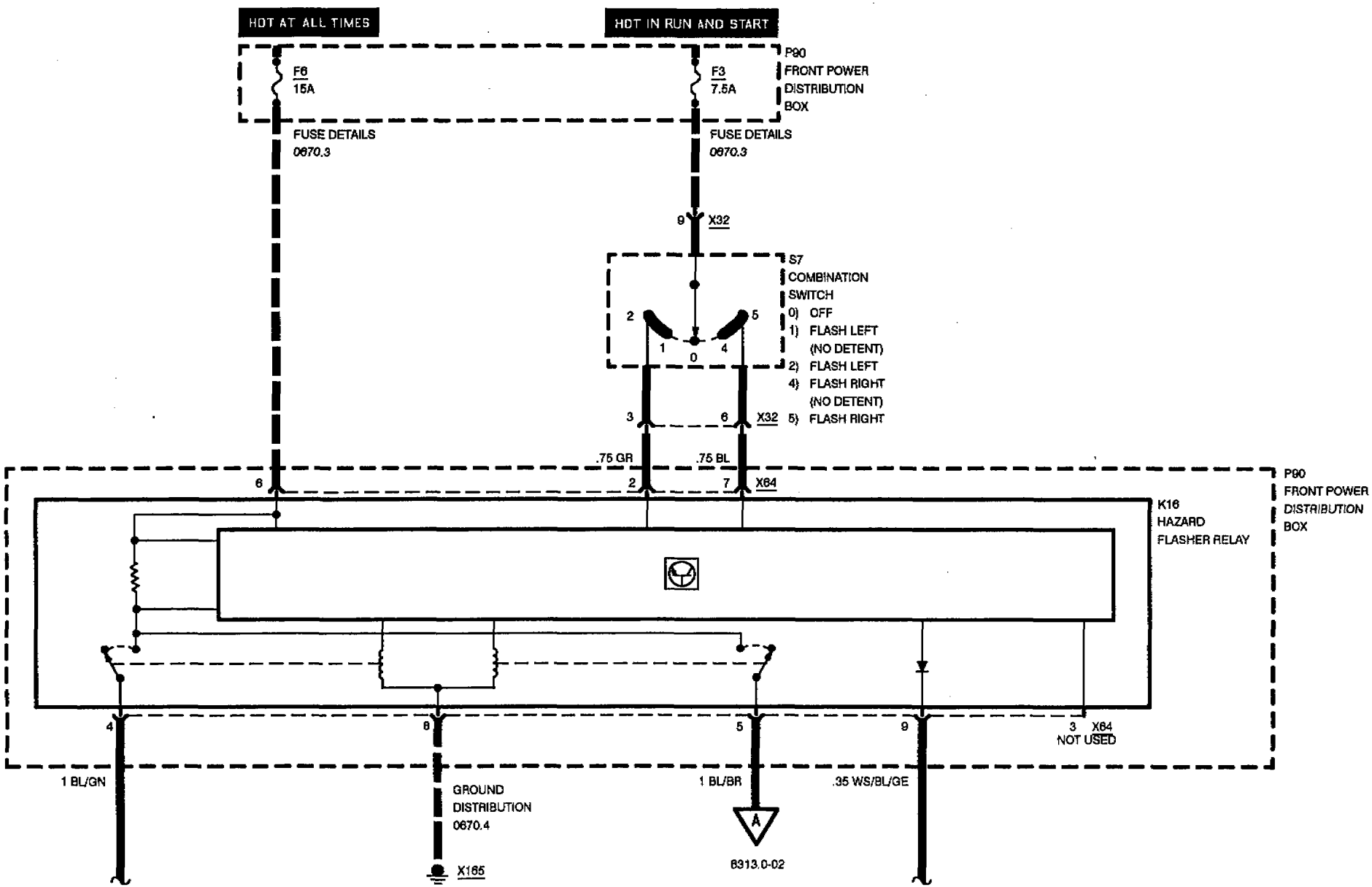
HEADLIGHTS/ FOG LIGHTS



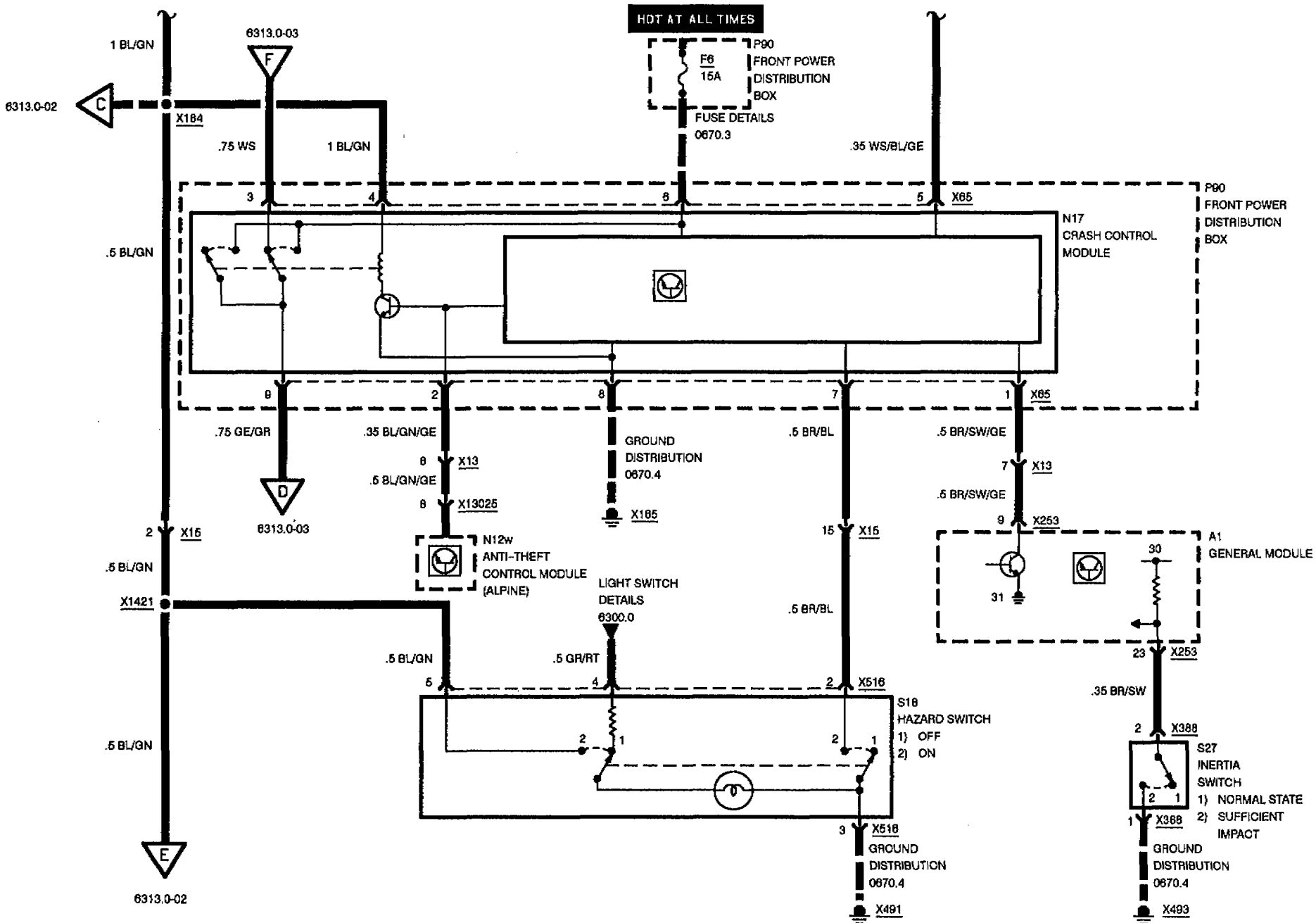
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TURN/HAZARD LIGHTS

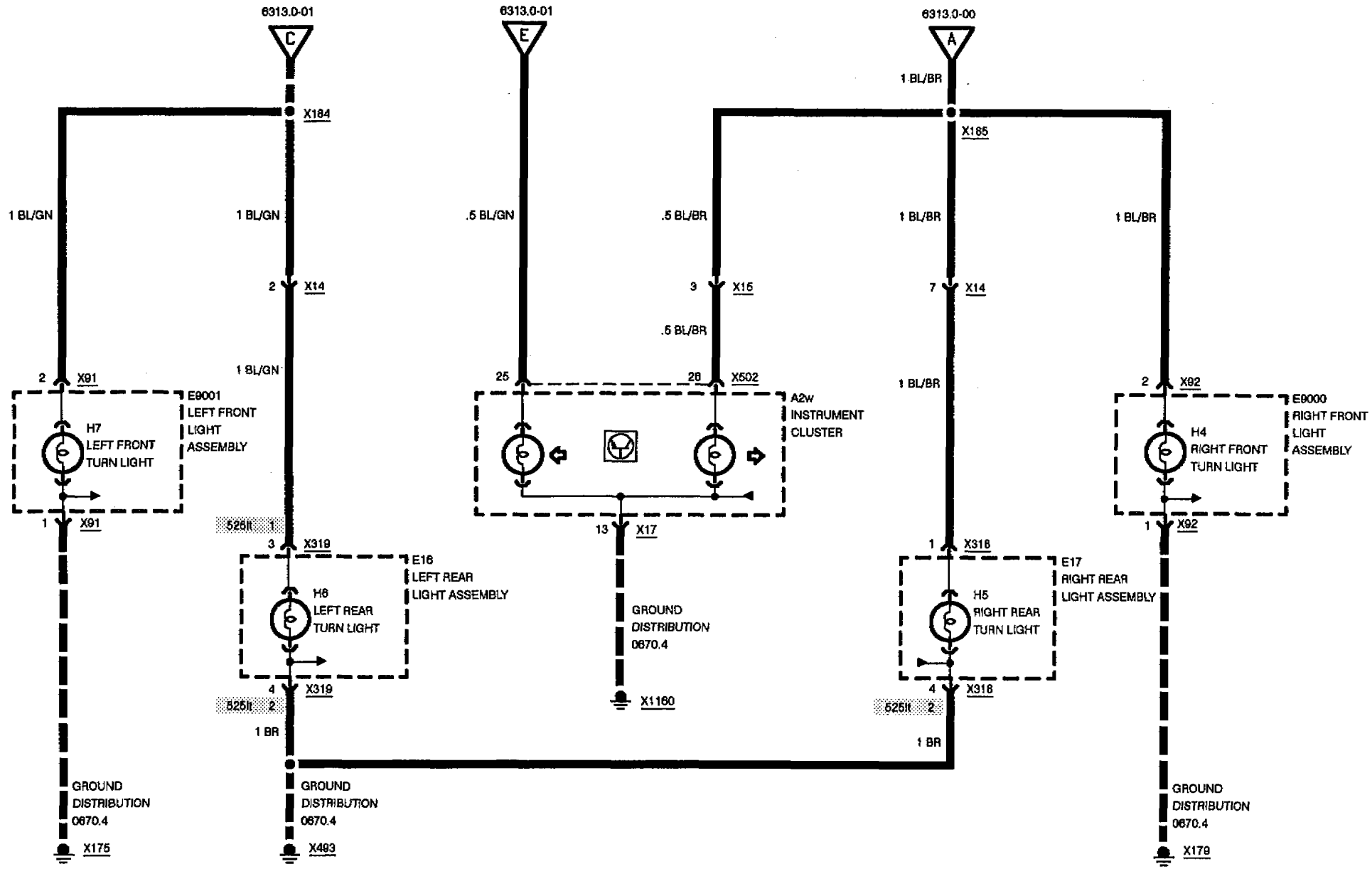


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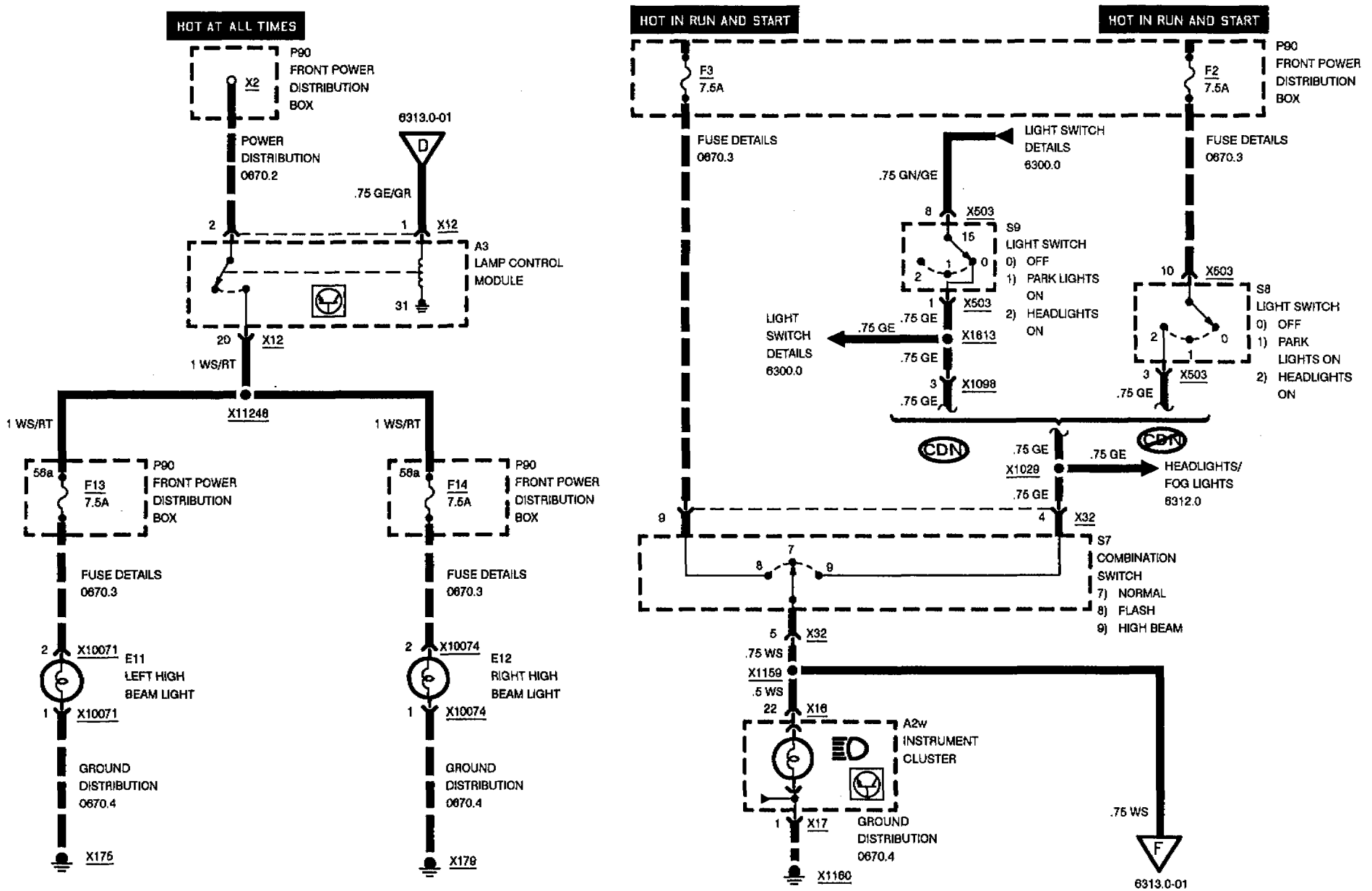
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TURN/HAZARD LIGHTS



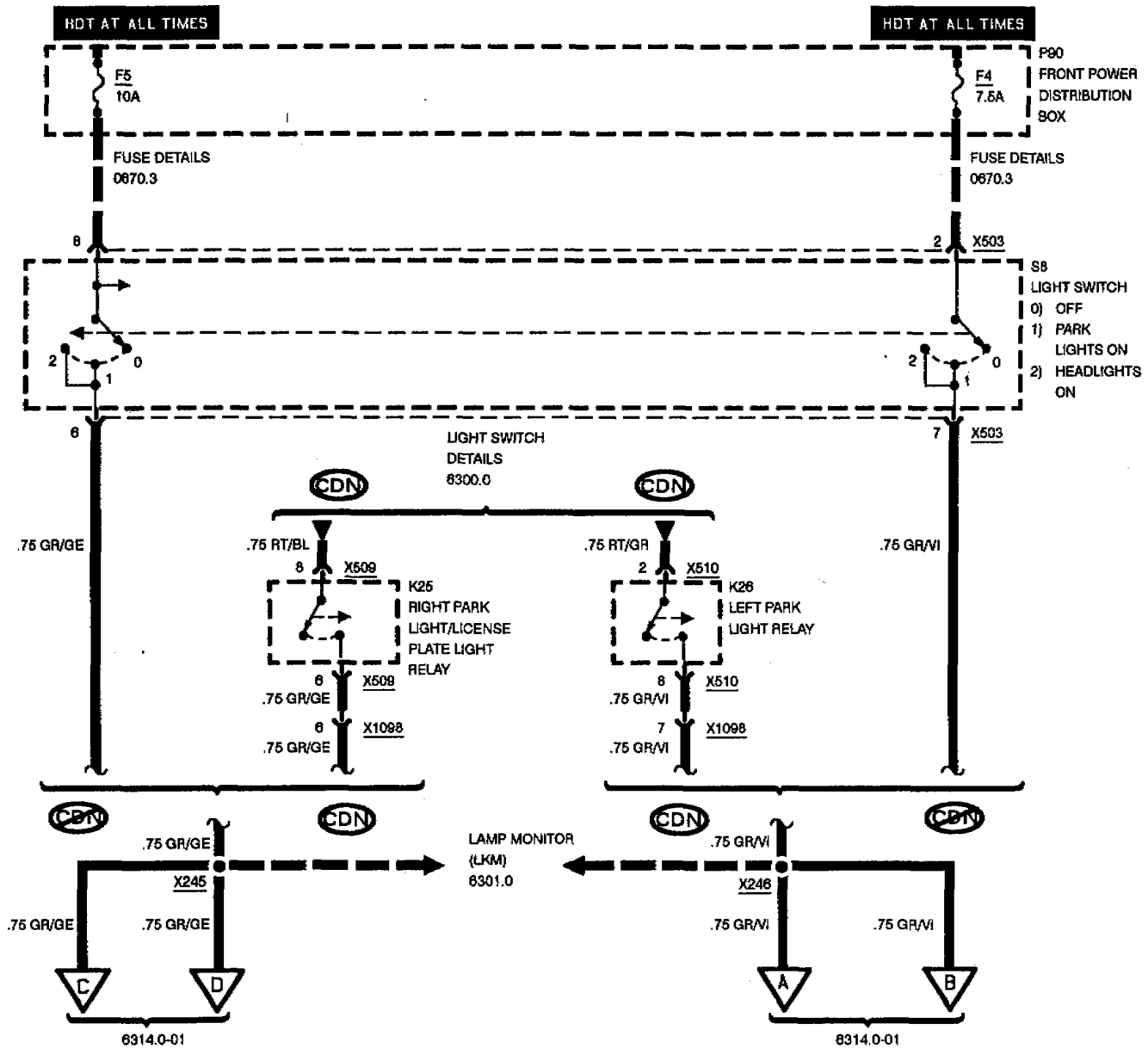
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TURN/HAZARD LIGHTS



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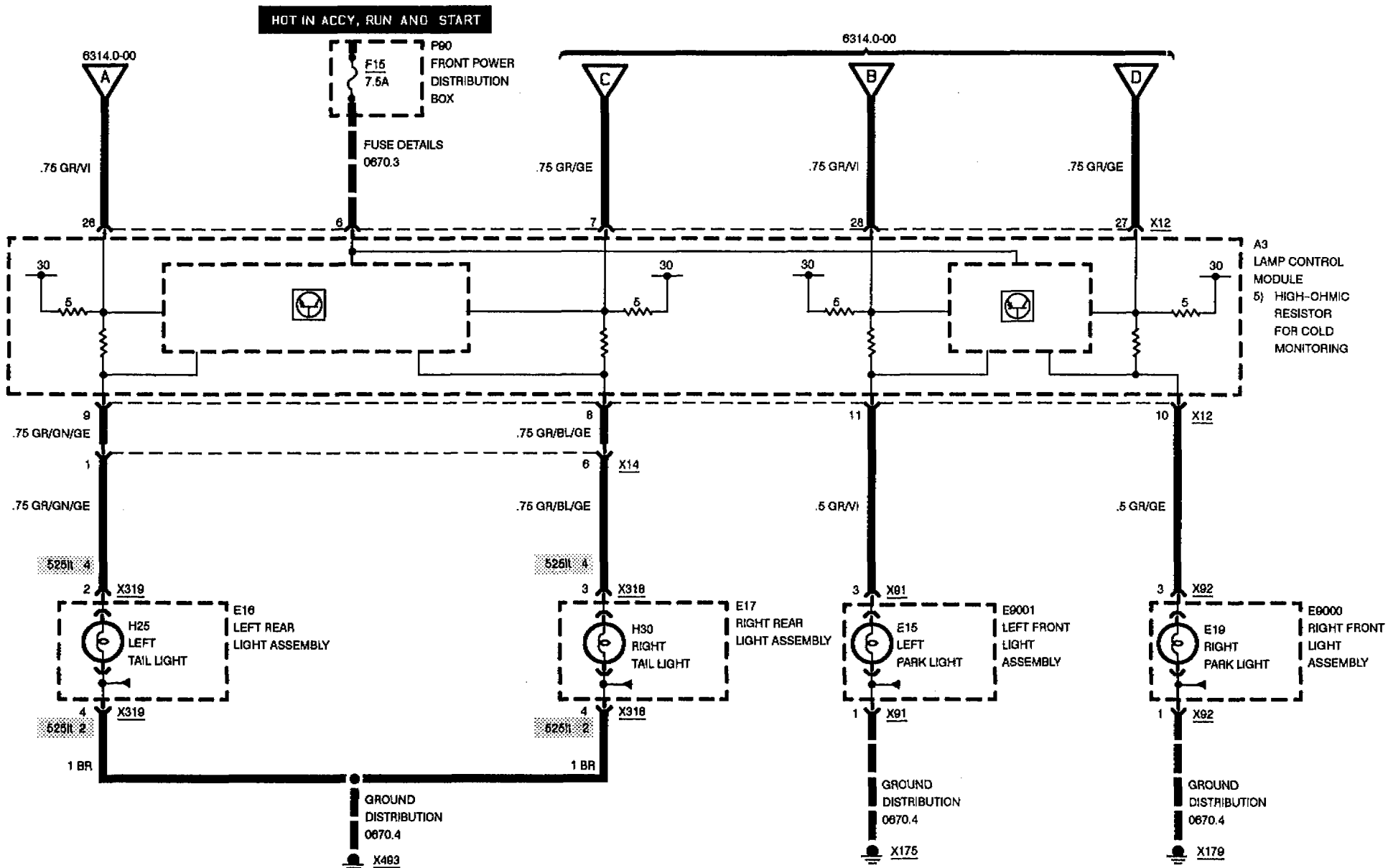
PARK/TAIL LIGHTS



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PARK/TAIL LIGHTS

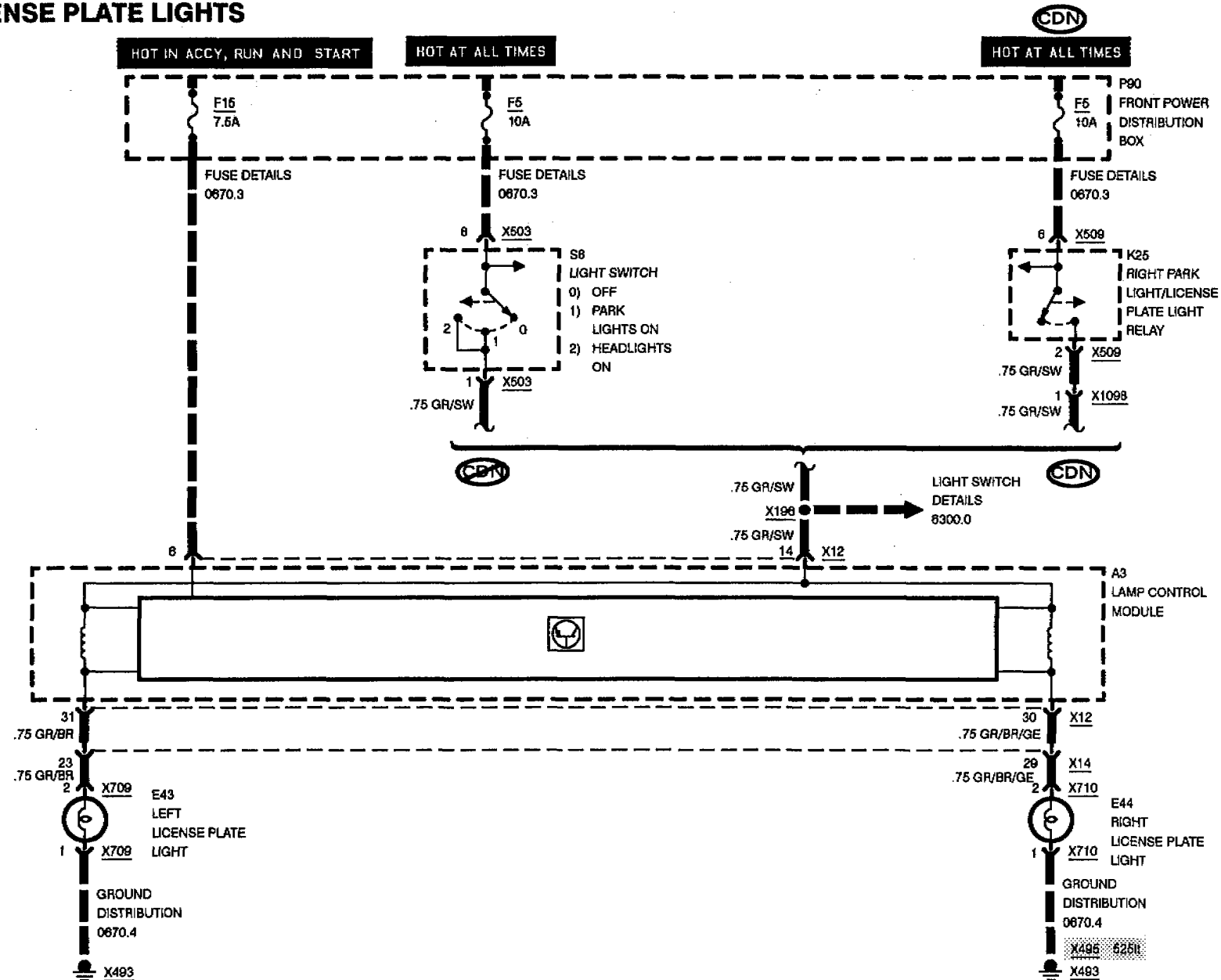
FRONT AND REAR PARK LIGHTS



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LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

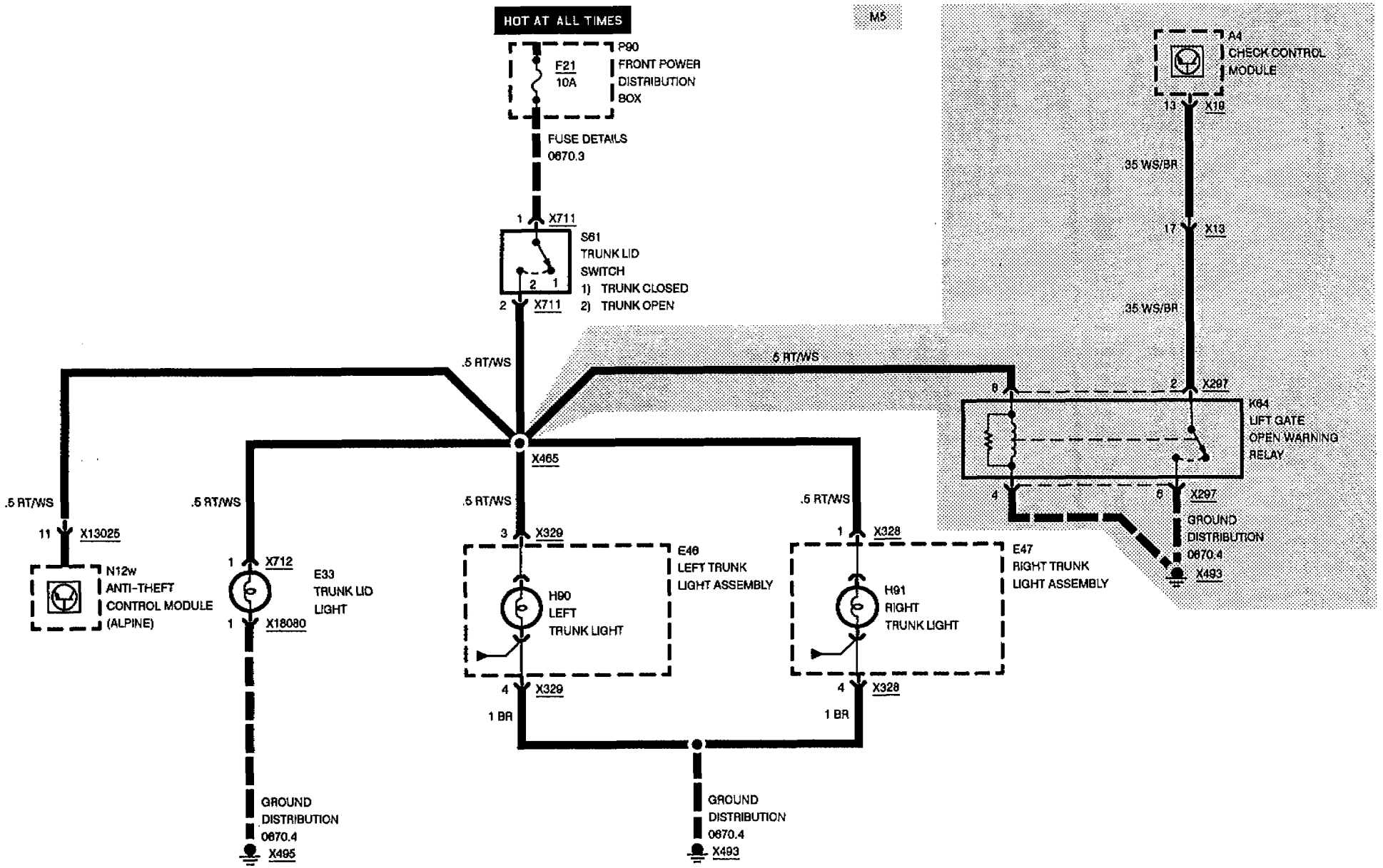
LICENSE PLATE LIGHTS



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LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

TRUNK LIGHTS

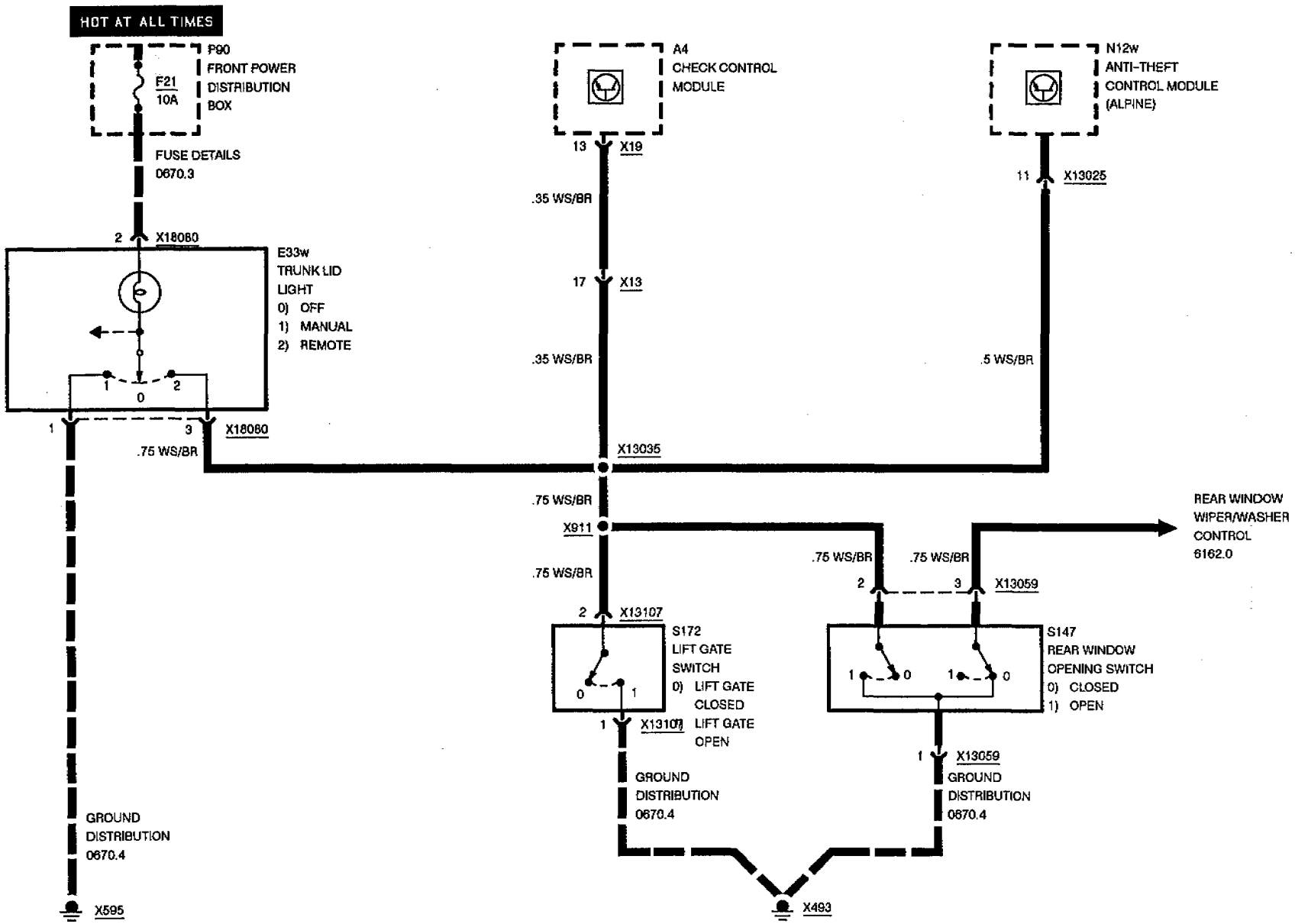


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LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

525it

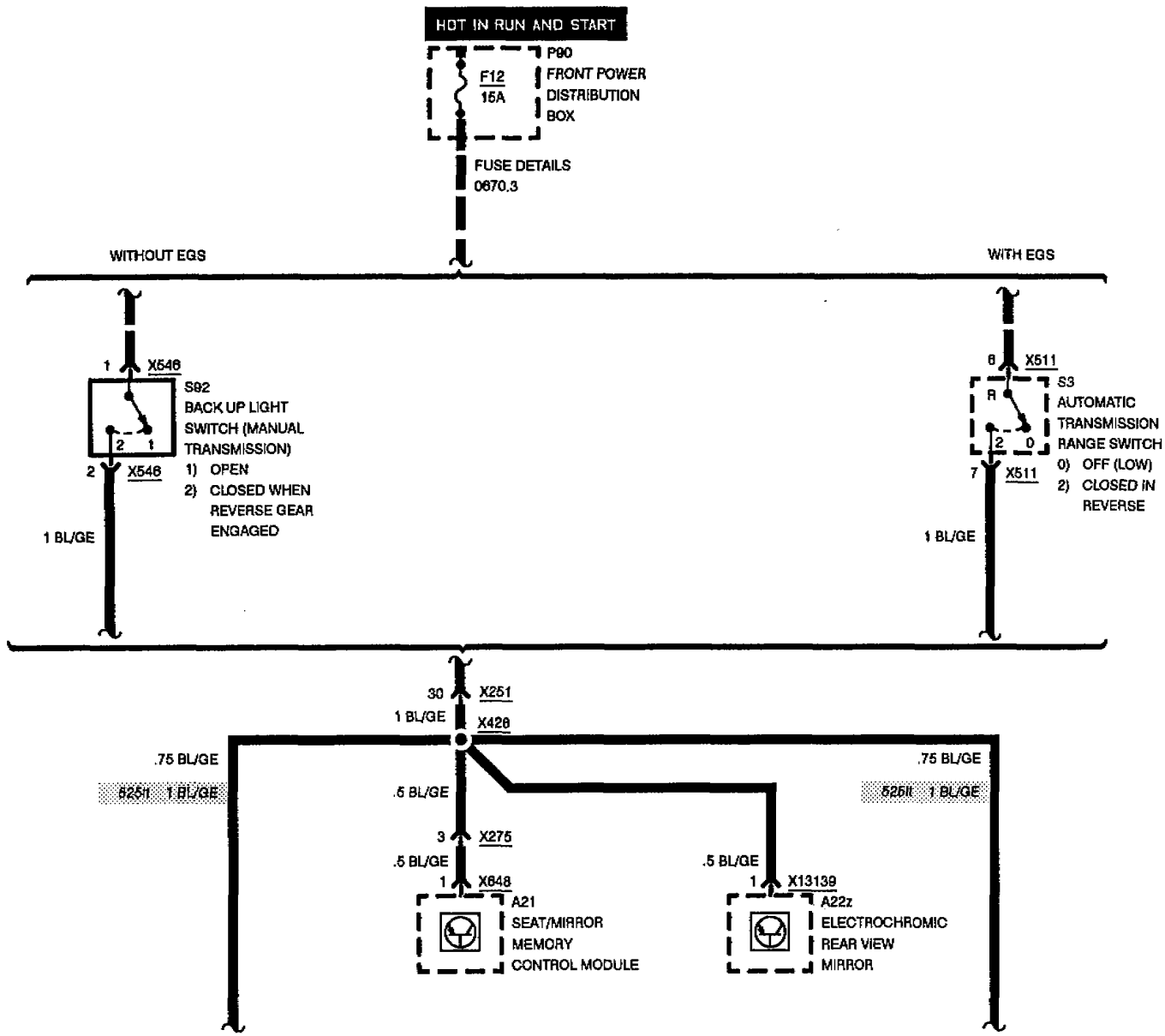
LICENSE PLATE LIGHTS



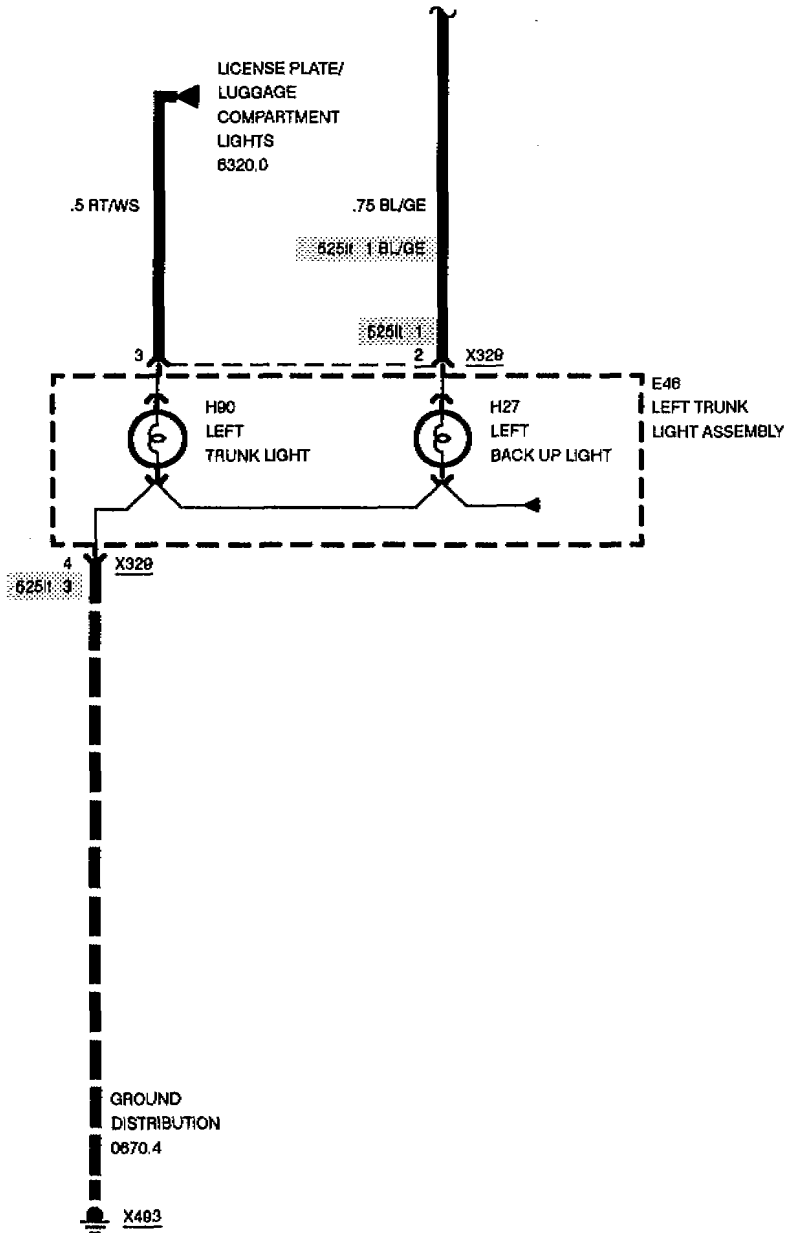
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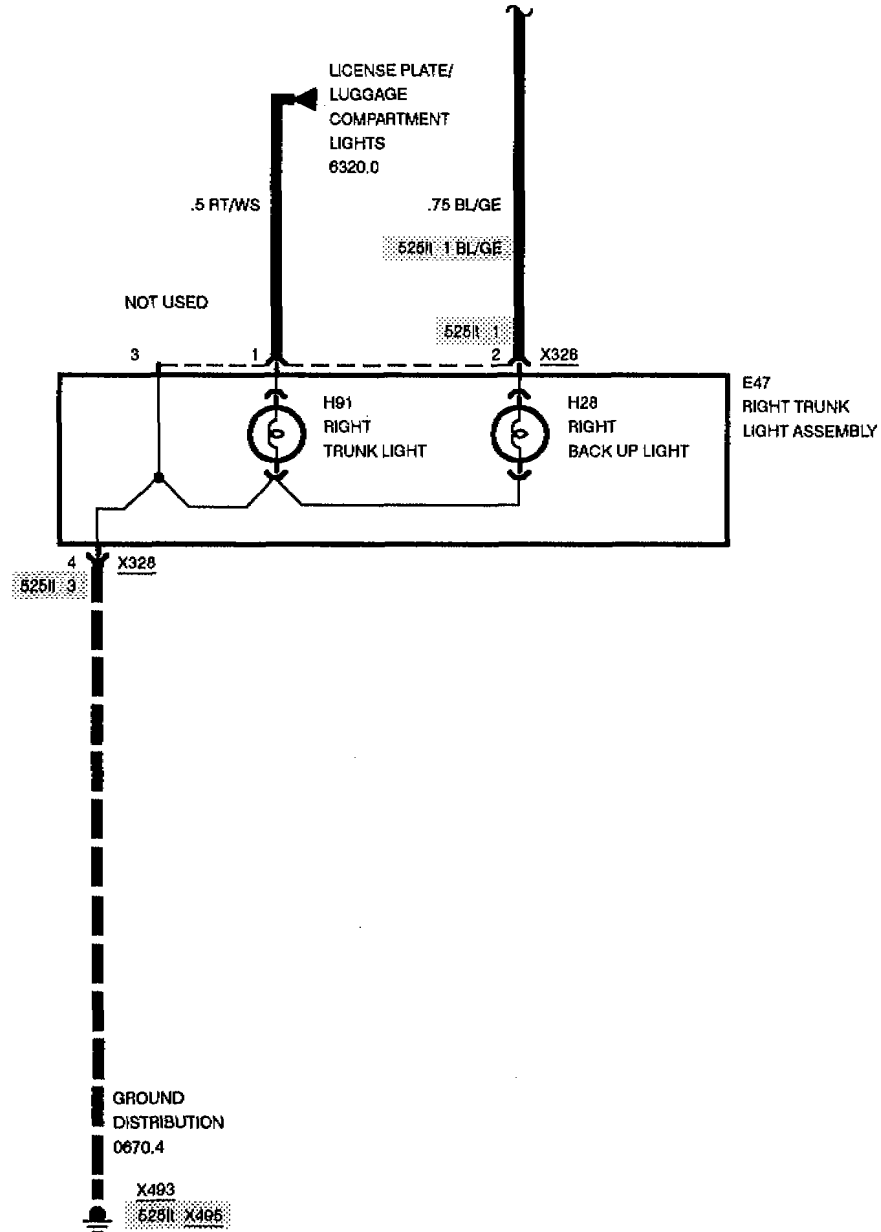
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BACK UP LIGHTS



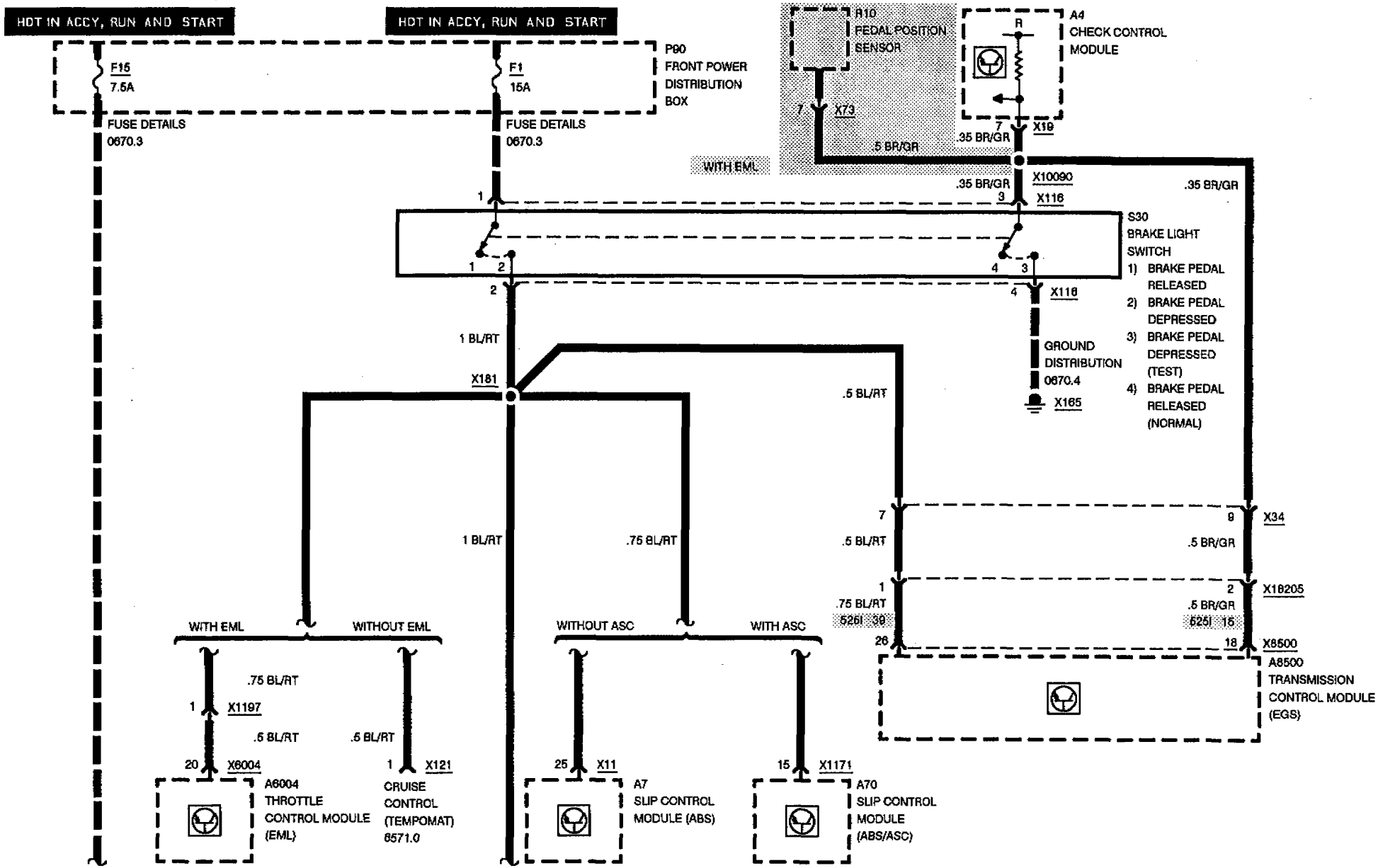
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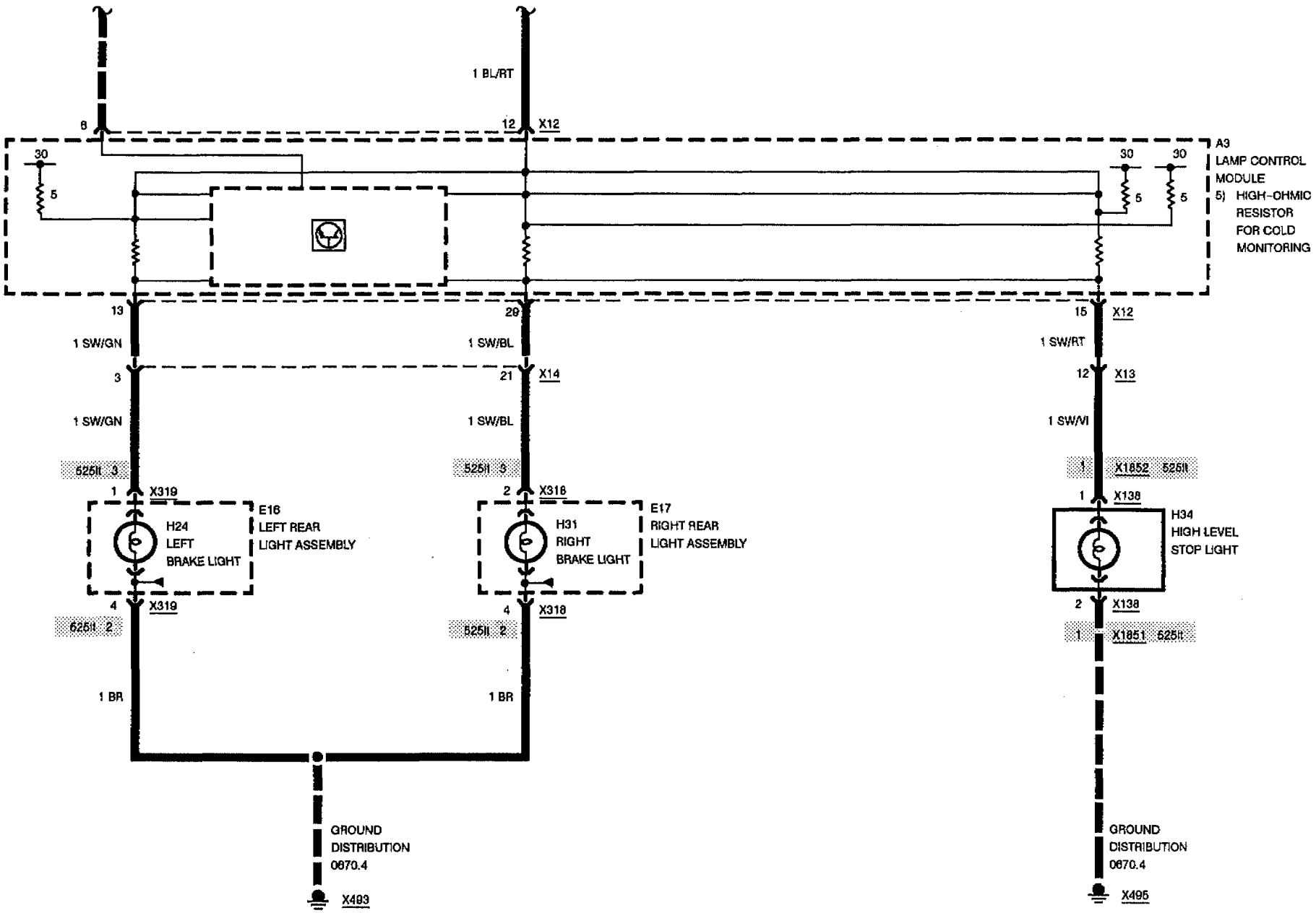


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BRAKE LIGHTS



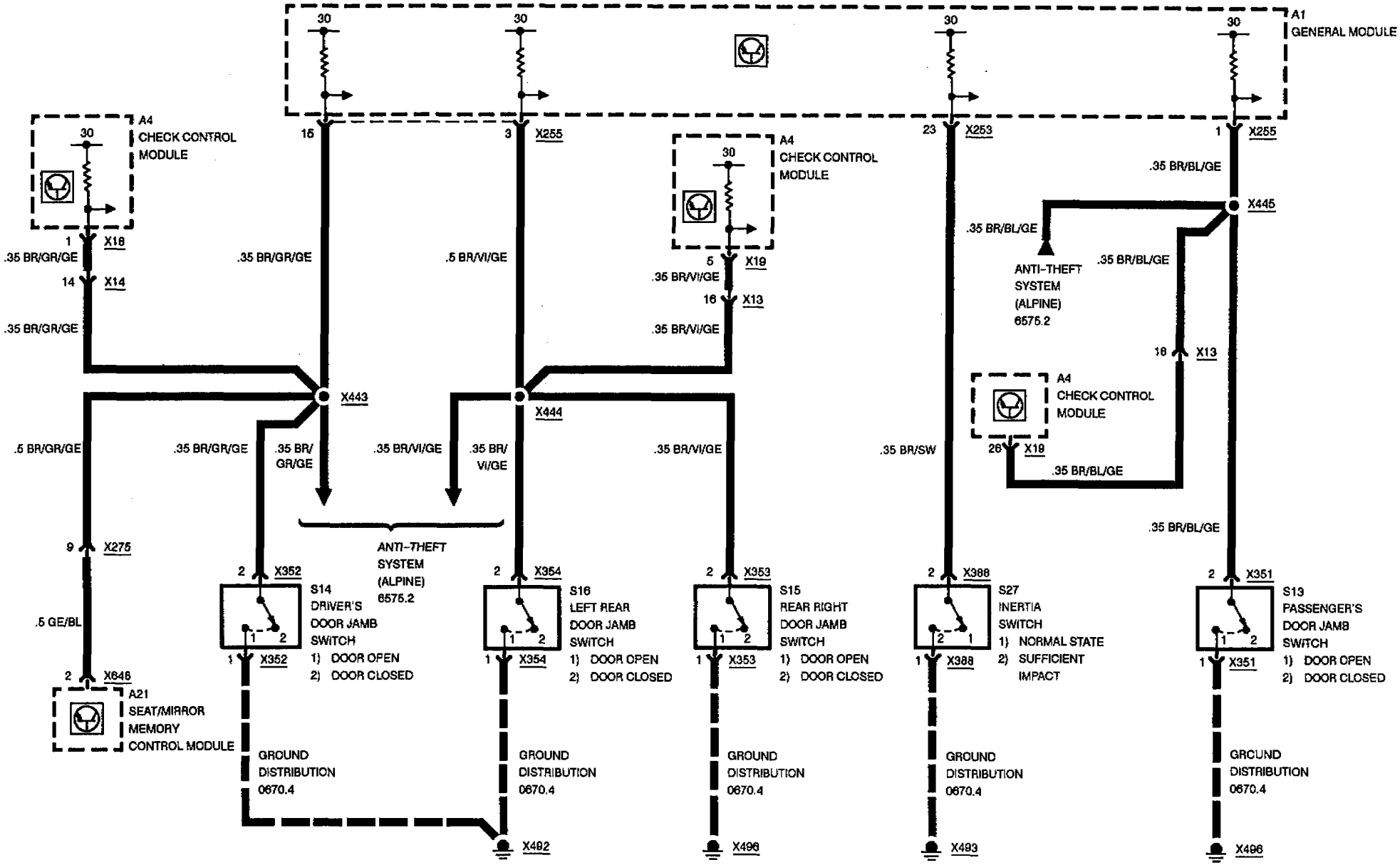
cardiagn.com


1 BL/RT
6
12 X12
A3
LAMP CONTROL
MODULE
5) HIGH-OHMIC
RESISTOR
FOR COLD
MONITORING
30
5
30
5
30
5
13
1 SW/GN
3
1 SW/GN
525i 3
1 X319
E16
LEFT REAR
LIGHT ASSEMBLY
H24
LEFT
BRAKE LIGHT
4 X319
525i 2
1 BR
29
1 SW/BL
21 X14
1 SW/BL
525i 3
2 X318
E17
RIGHT REAR
LIGHT ASSEMBLY
H31
RIGHT
BRAKE LIGHT
4 X318
525i 2
1 BR
15 X12
1 SW/RT
12 X13
1 SW/VI
1 X1852 525i
1 X138
H34
HIGH LEVEL
STOP LIGHT
2 X138
1 X1851 525i
GROUND
DISTRIBUTION
0670.4
X493
GROUND
DISTRIBUTION
0670.4
X495

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ZKE INTERIOR LIGHTS CONTROL (IB)

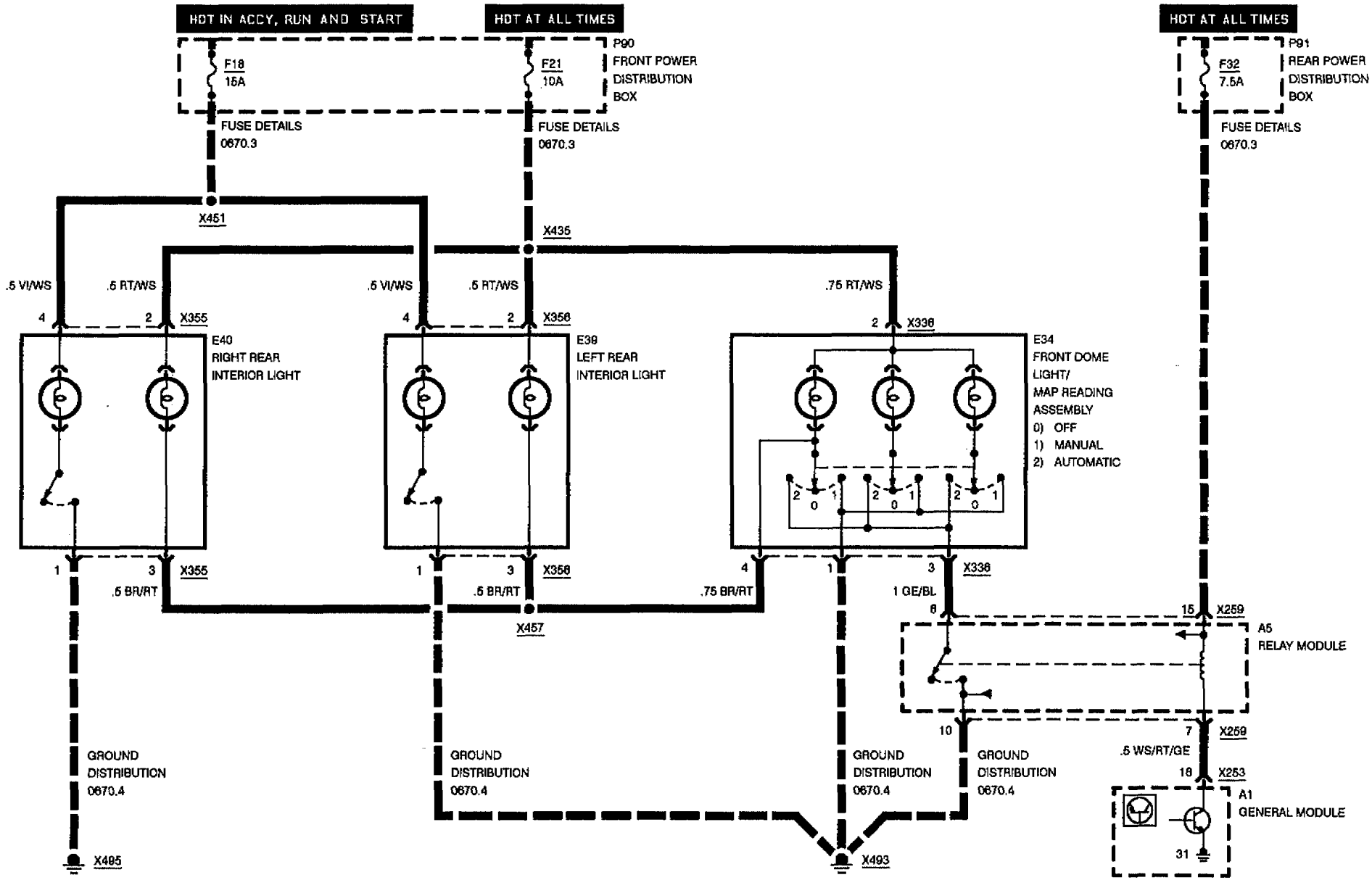
INPUT DETAILS



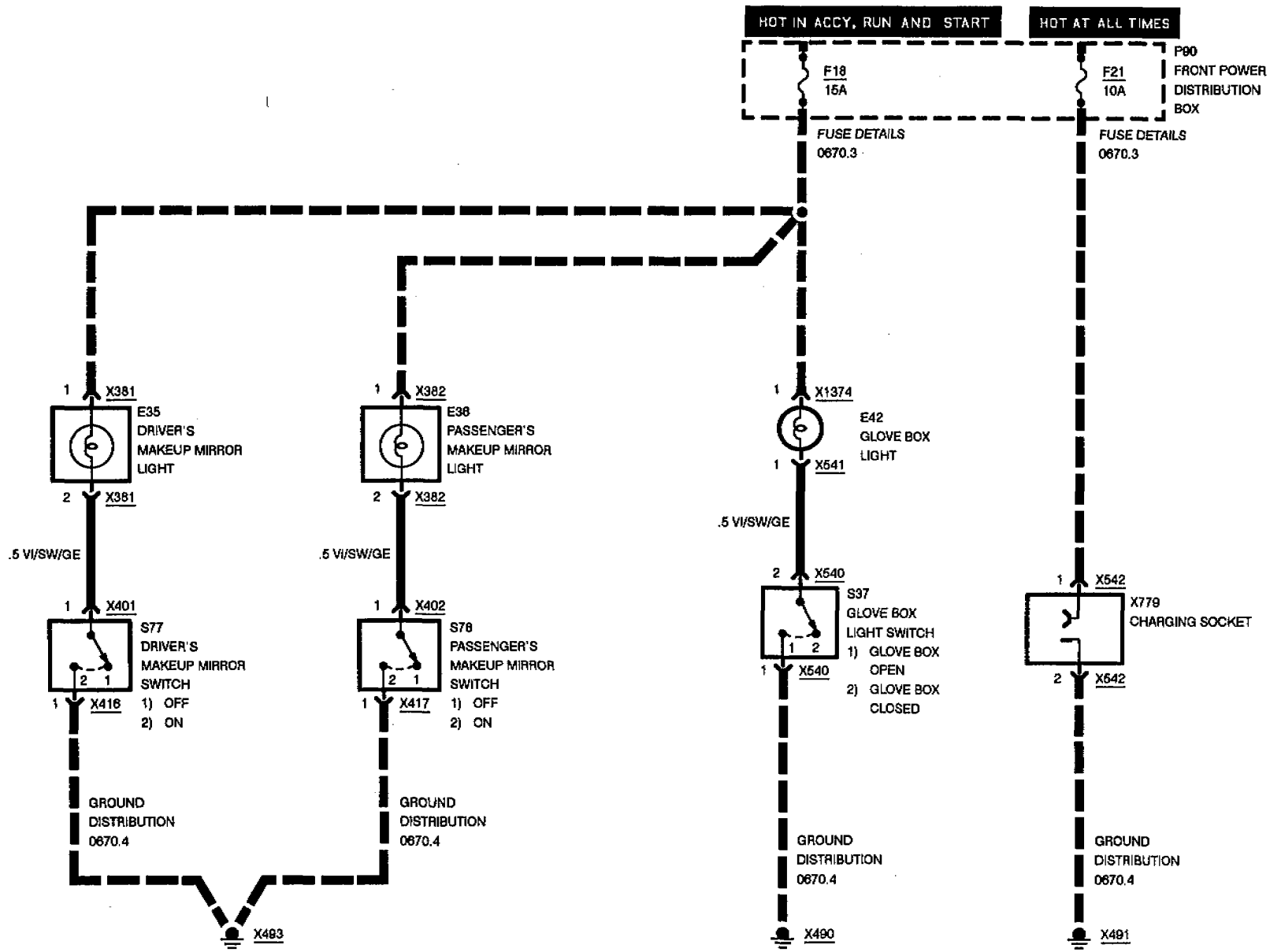
cardiagn.com

ZKE INTERIOR LIGHTS CONTROL (IB)

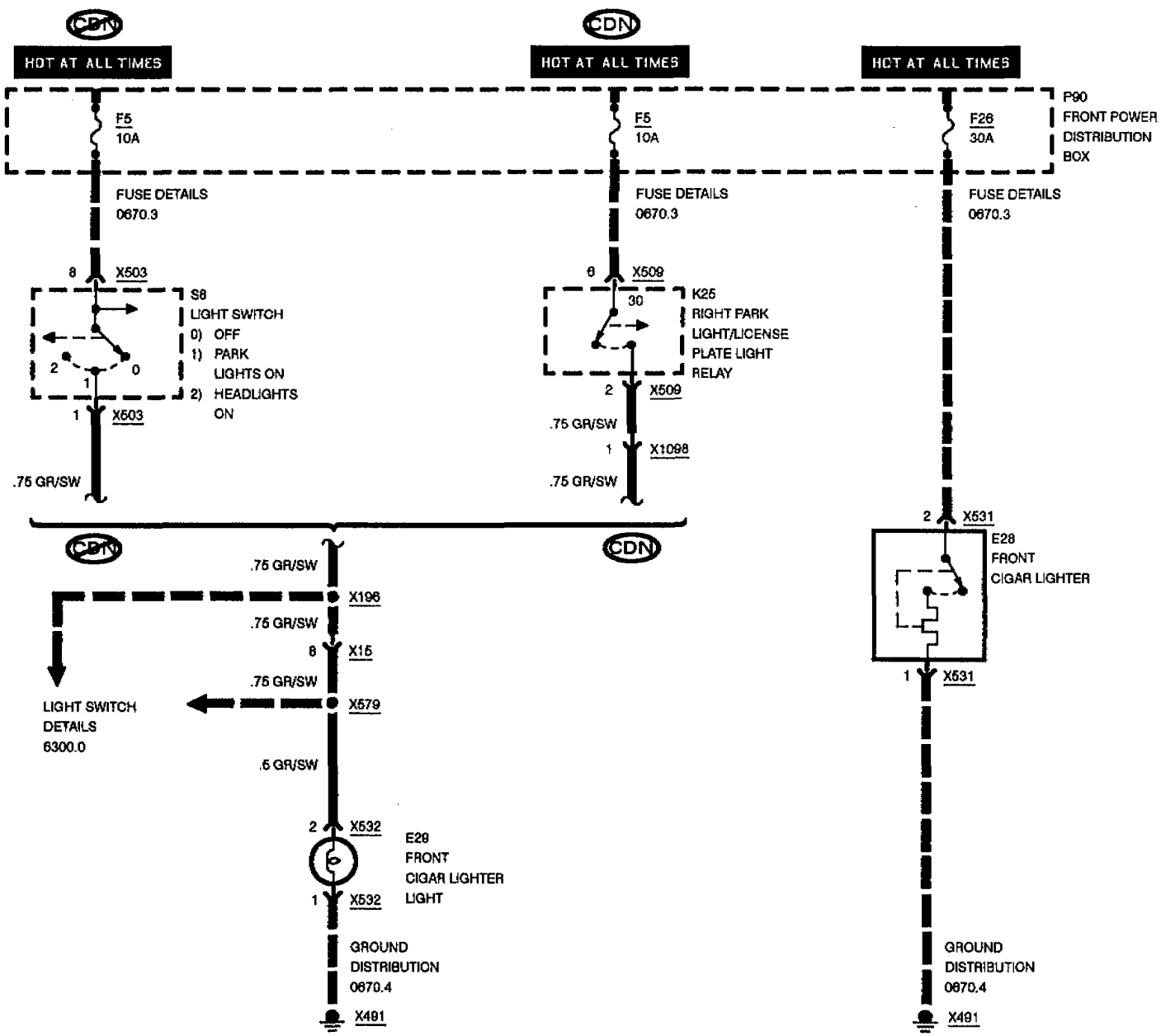
OUTPUT DETAILS



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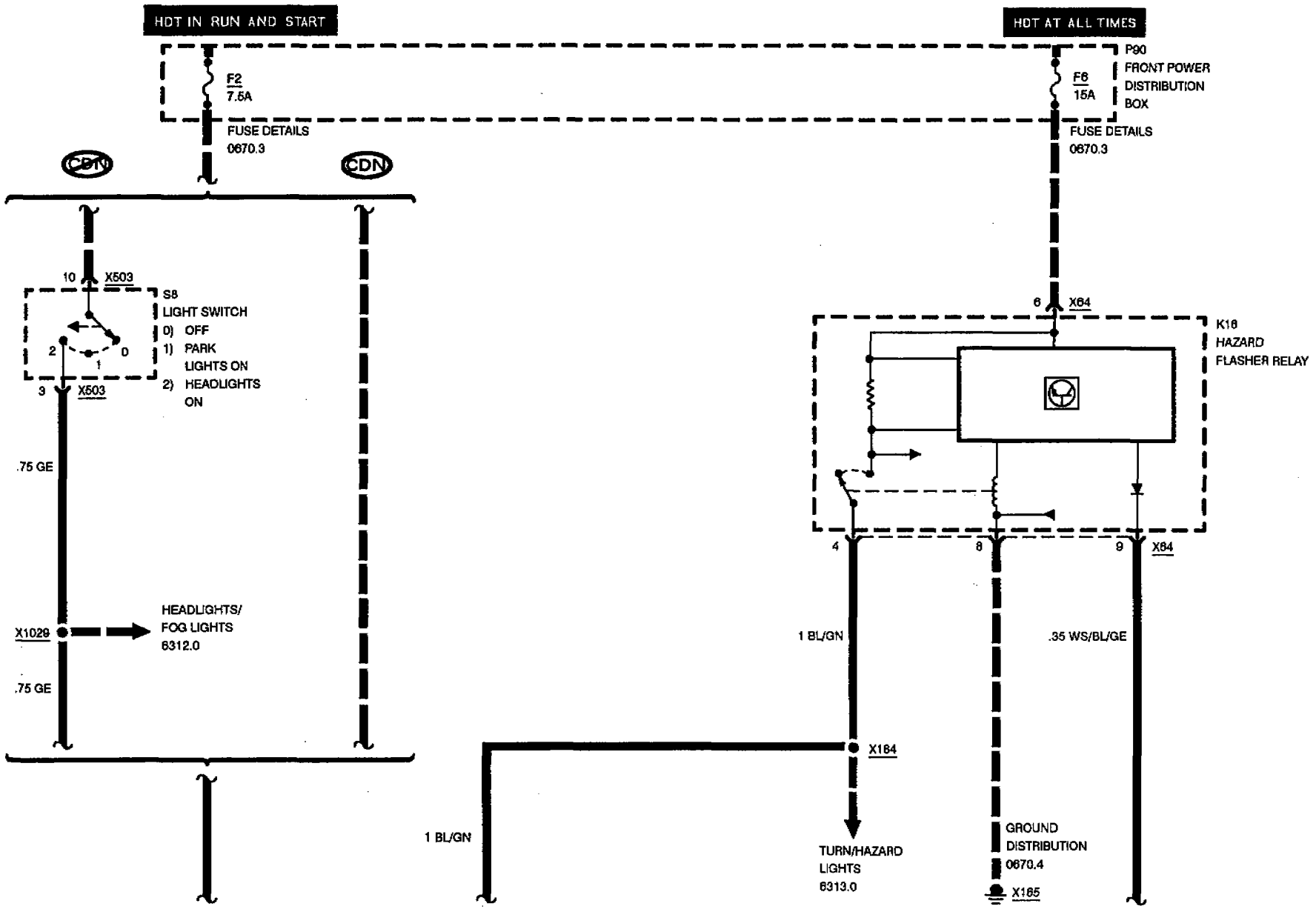


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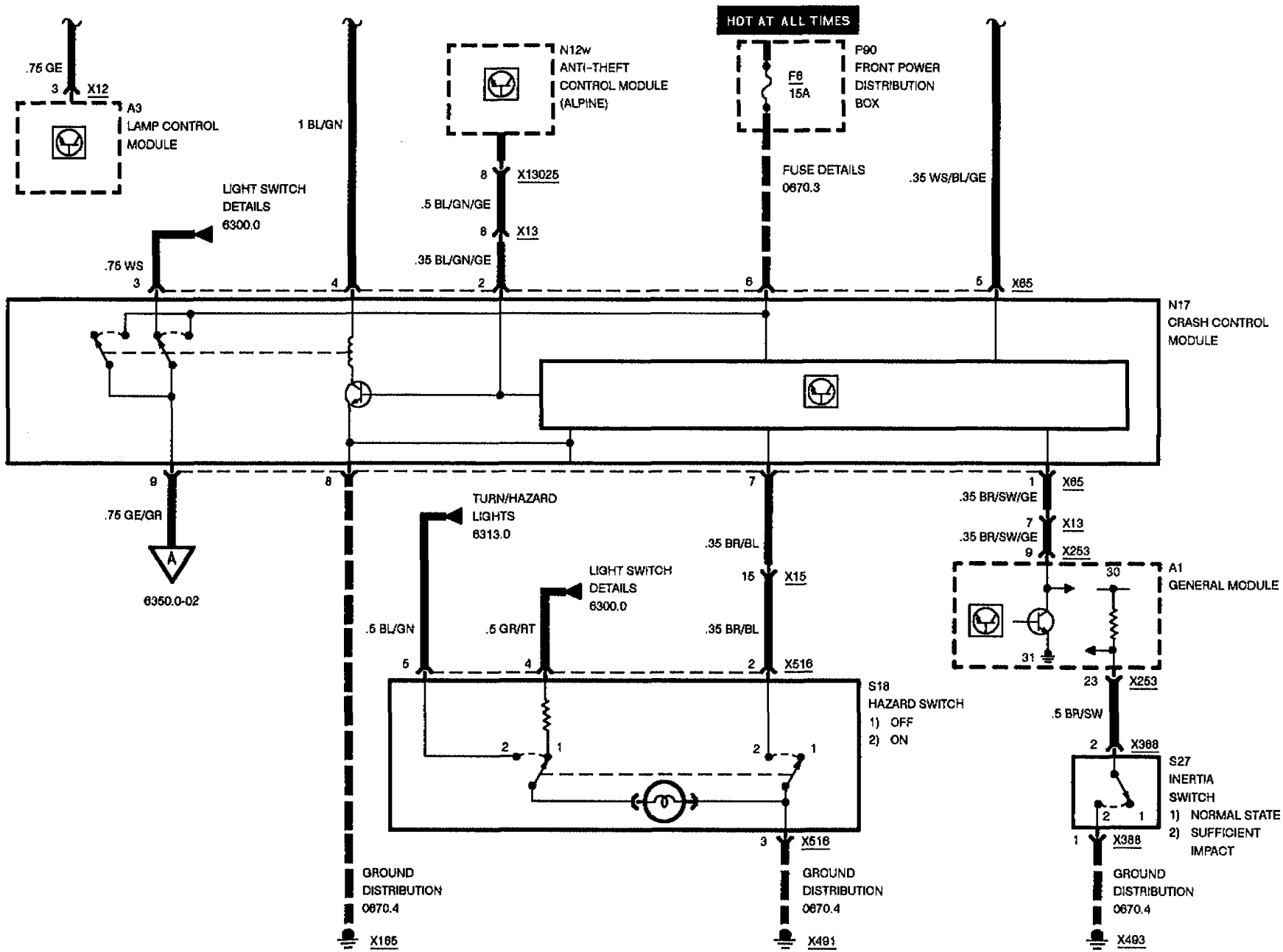


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CRASH CONTROL MODULE

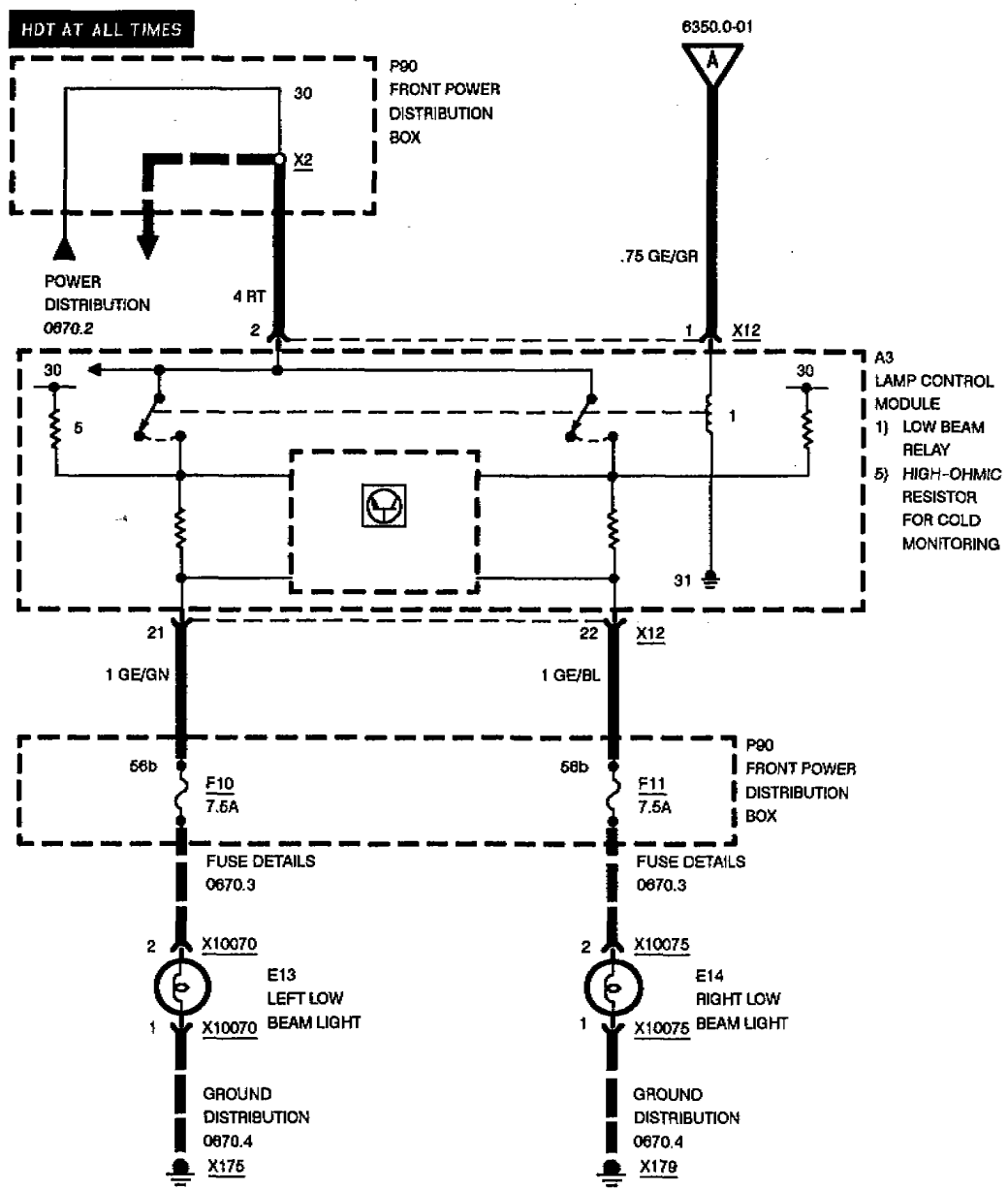


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HOT AT ALL TIMES
.75 GE
3
X12
A3
LAMP CONTROL
MODULE
1 BL/GN
N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)
F6
15A
P90
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
.35 WS/BL/GE
8
X13025
.5 BL/GN/GE
6
X13
.35 BL/GN/GE
LIGHT SWITCH
DETAILS
6300.0
.75 WS
3
4
2
6
5
X65
N17
CRASH CONTROL
MODULE
9
8
7
1
X65
.75 GE/GR
6350.0-02
TURN/HAZARD
LIGHTS
6313.0
.35 BR/SW/GE
7
X13
.35 BR/SW/GE
9
X253
.35 BR/BL
15
X15
LIGHT SWITCH
DETAILS
6300.0
A1
GENERAL MODULE
30
.5 BL/GN
.5 GR/RT
.35 BR/BL
5
4
2
X516
31
23
X253
S18
HAZARD SWITCH
1) OFF
2) ON
.5 BR/SW
2
X388
S27
INERTIA
SWITCH
1) NORMAL STATE
2) SUFFICIENT
IMPACT
3
X516
1
X388
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X165
X491
X493

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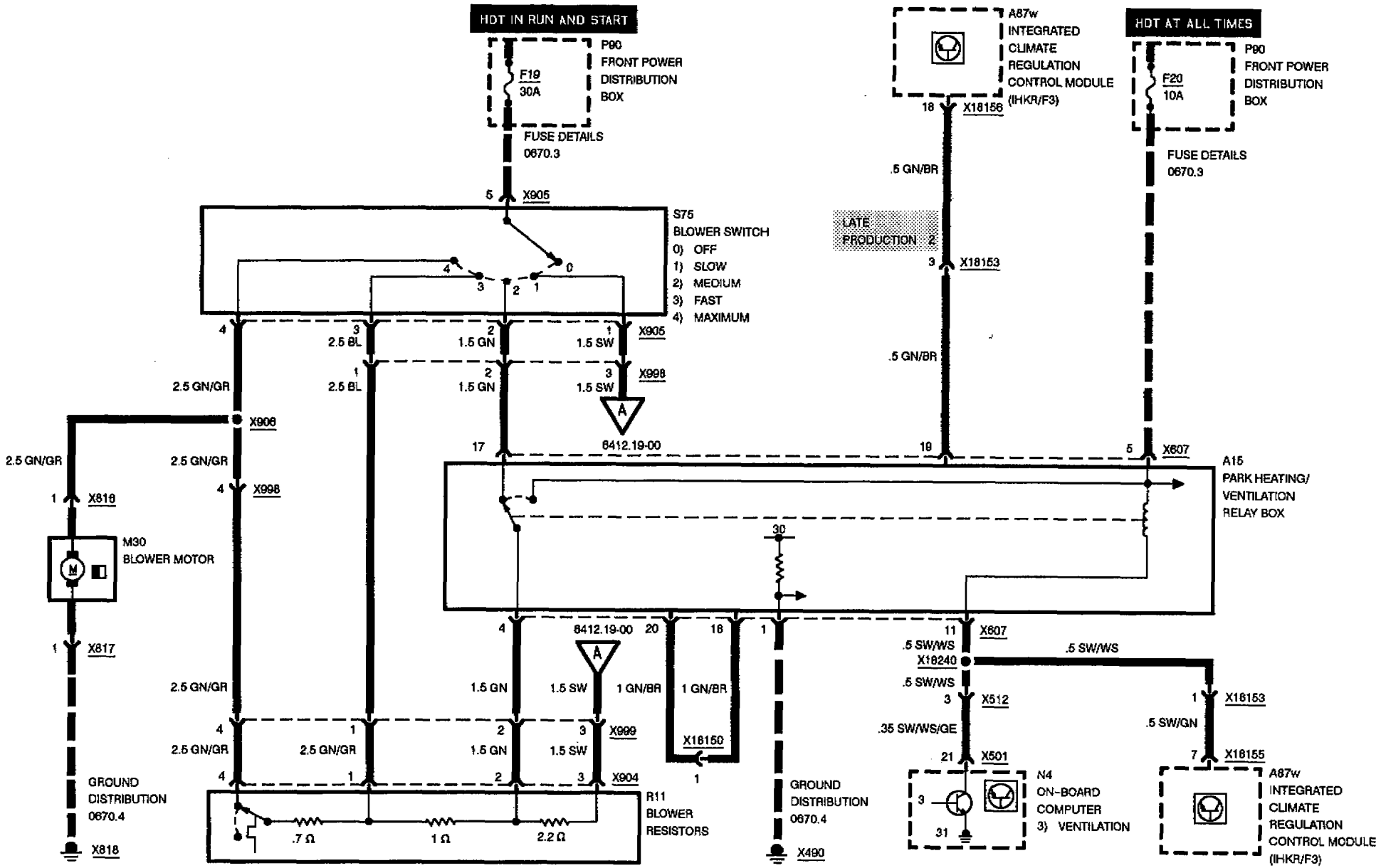
CRASH CONTROL MODULE



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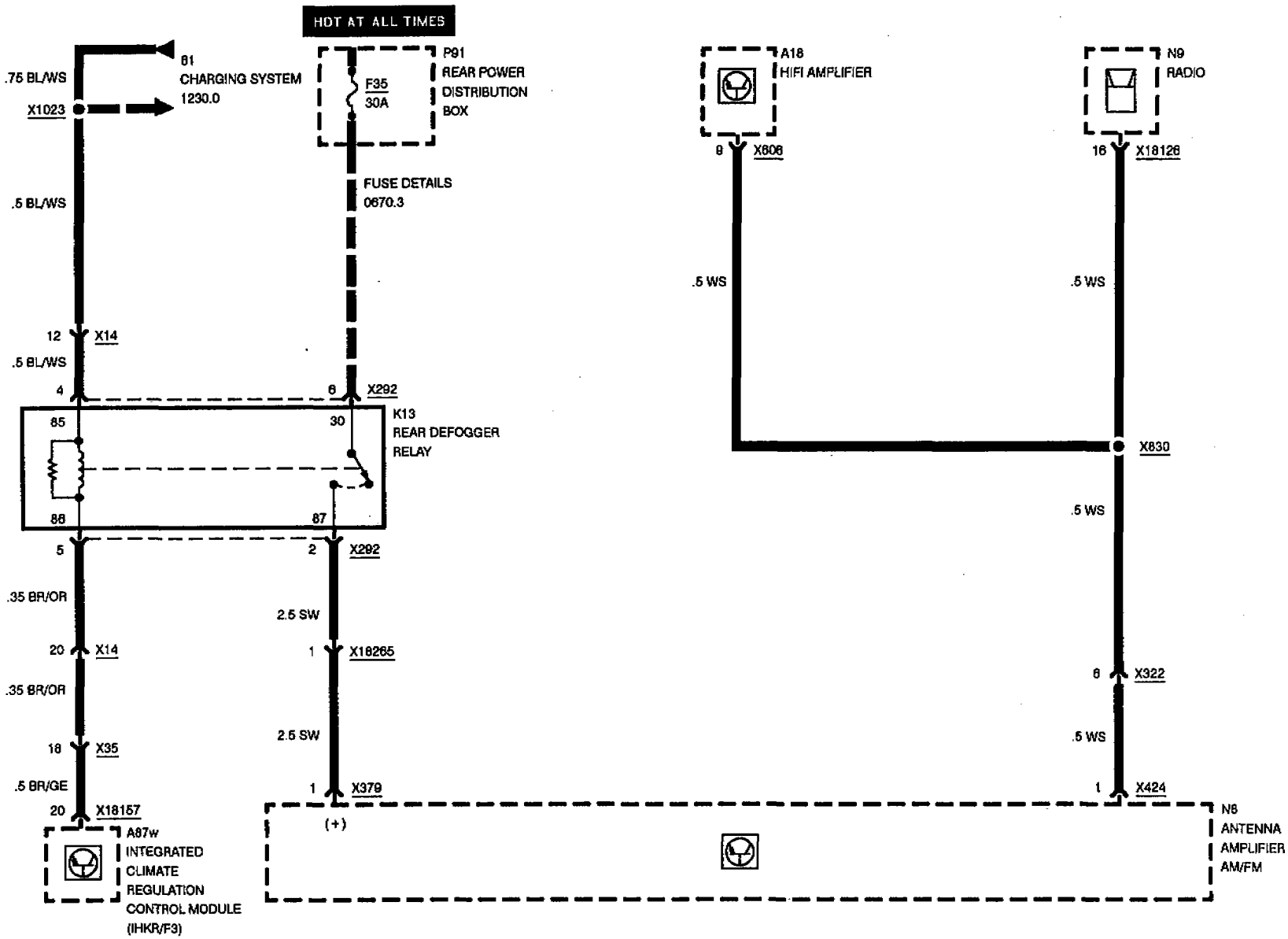
PARK VENTILATION WITH IHKR/F3



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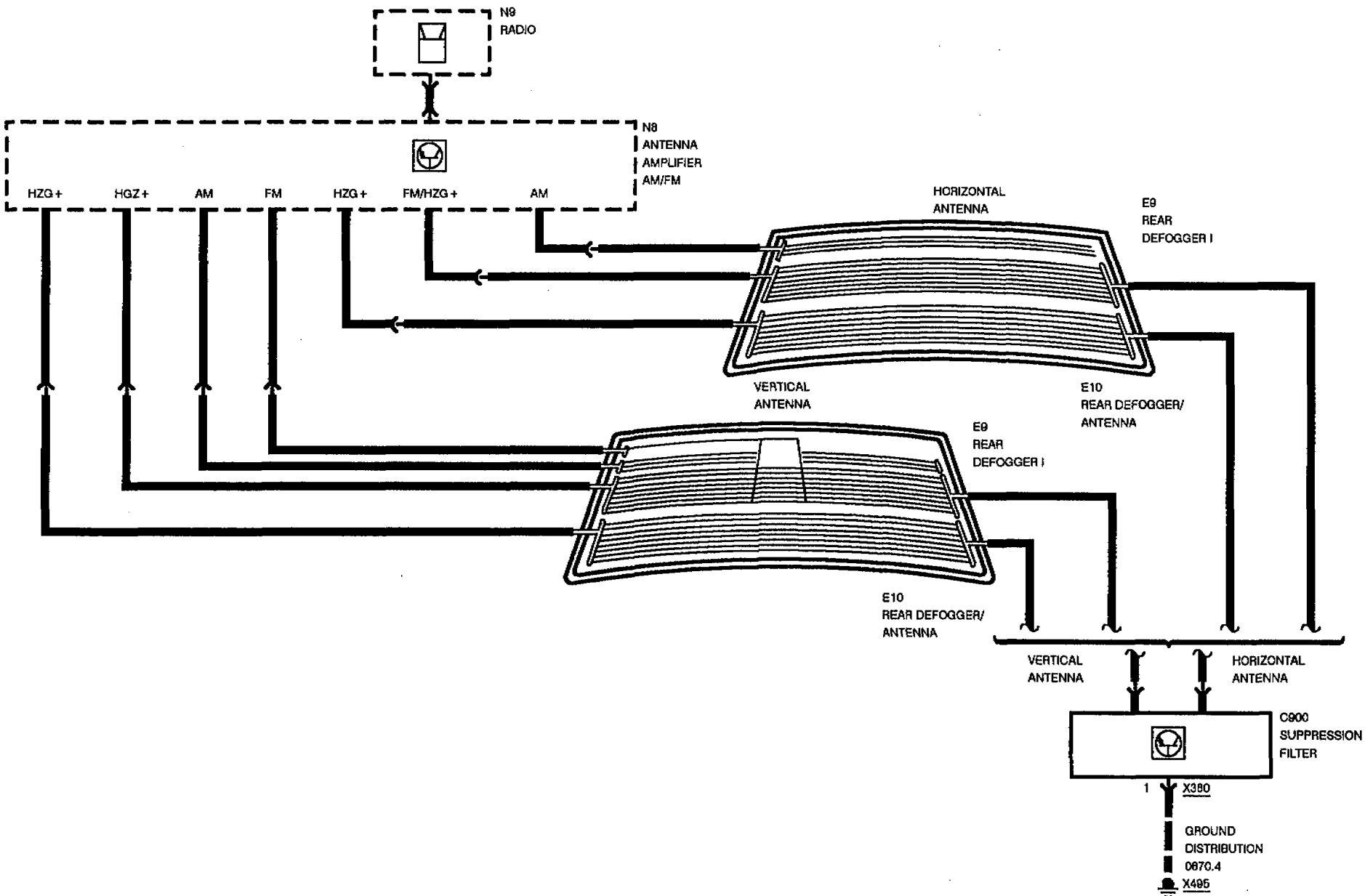
REAR WINDOW DEFOGGER



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REAR WINDOW DEFOGGER

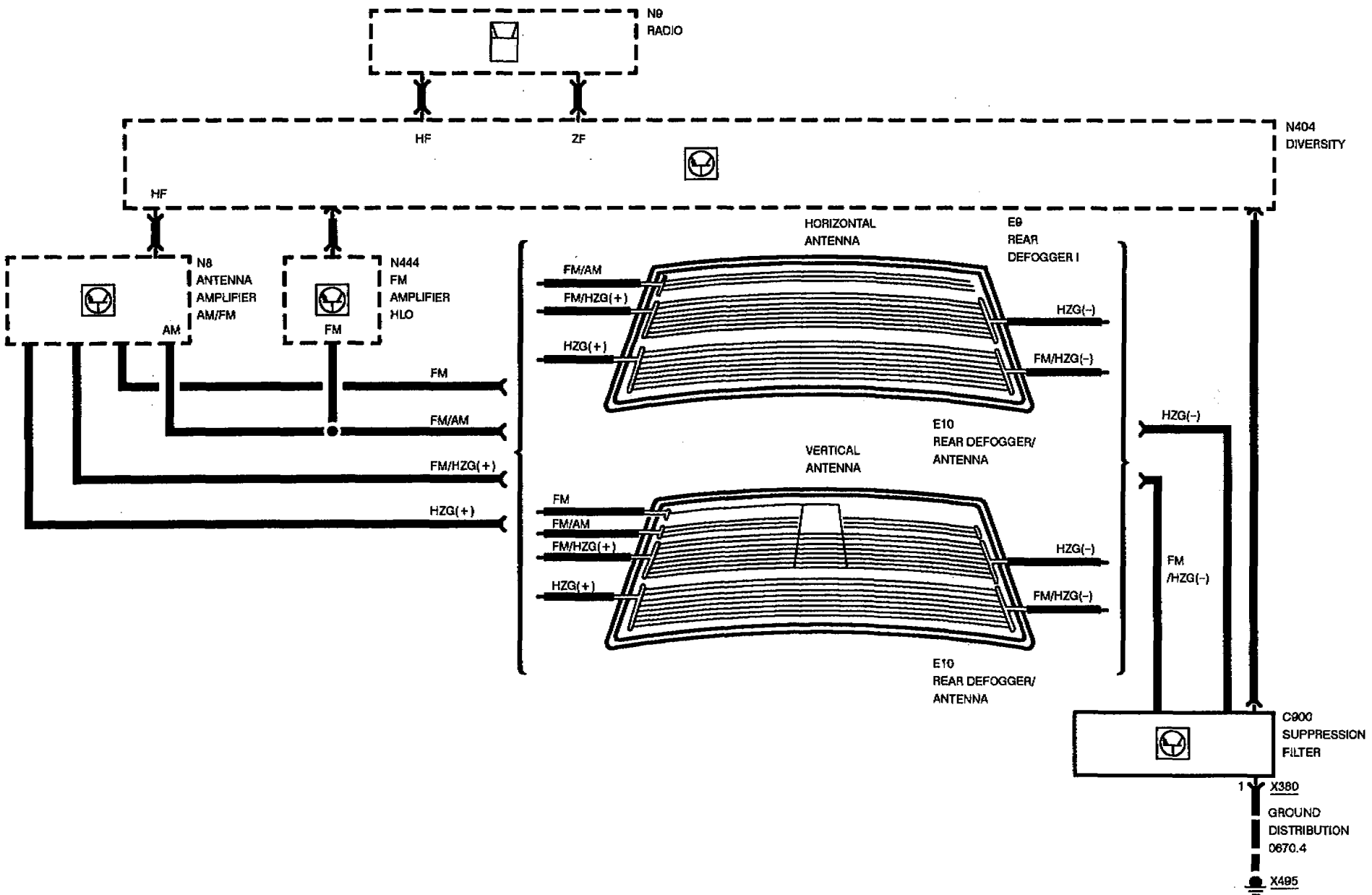
REAR WINDOW ANTENNA



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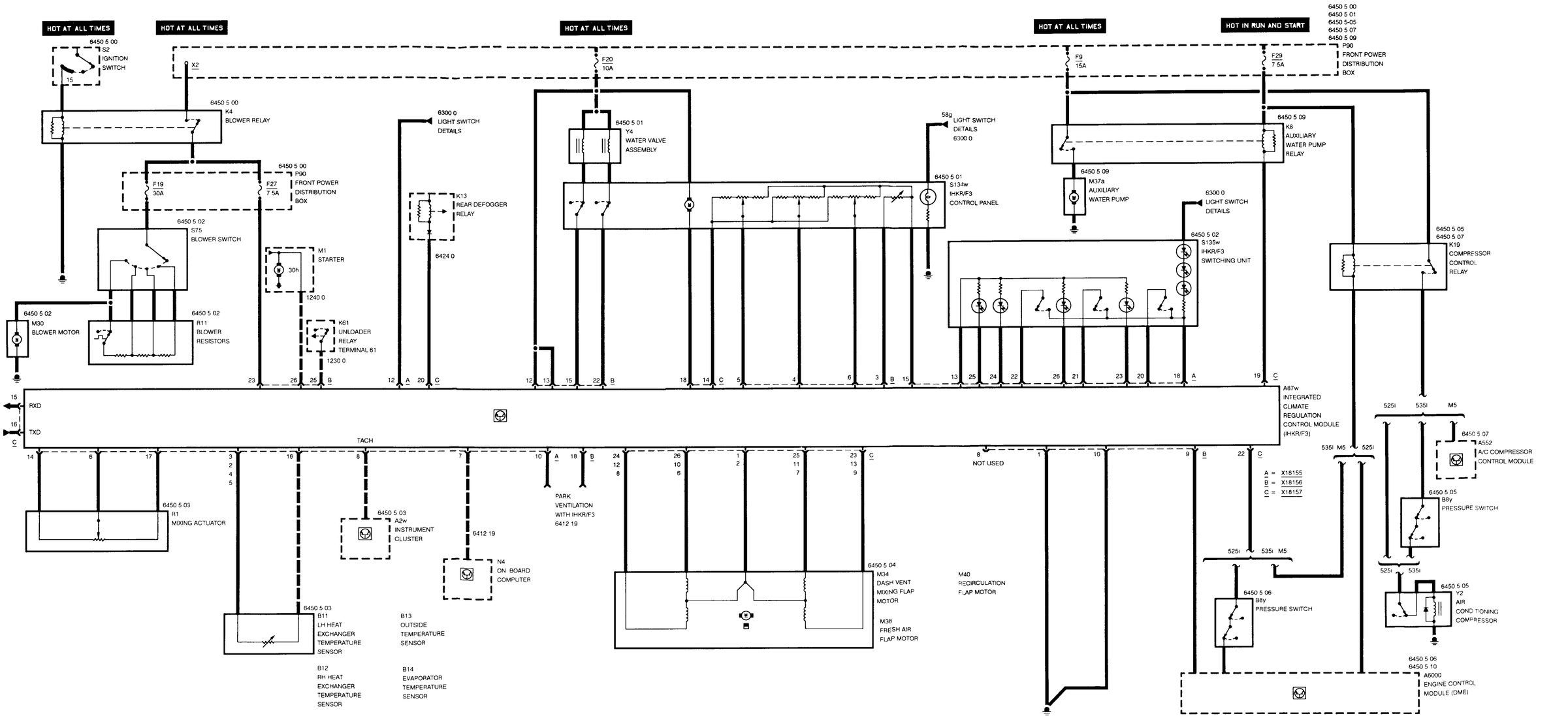
REAR WINDOW DEFOGGER

3-ANTENNA-DIVERSITY

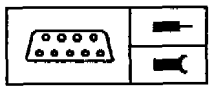


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12/93 6450 5 1993



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Pin Assignments

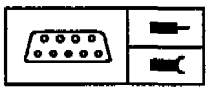
A=X18155	26 Pins, white
B=X18156	26 Pins, black
C=X18157	26 Pins, blue

X18155

Pin	Type	Description/ Function	Connection
1		Not used	
2	E	Heater temperature, right	Heat exchanger temperature sensor, RH
3	E	Heater temperature, left	Heat exchanger temperature sensor, LH
4	E	Outside temperature	Outside temperature sensor
5	E	Evaporator temperature	Evaporator temperature sensor
6	E	Nominal mixing value	Mixing actuator
7	E	Independent ventilation	Park heating/ventilation relay box
8	E	Vehicle speed	Instument cluster
9		Not used	
10	E	Independent heating	Park heating/ventilation relay box
11		Not used	
12	E	Terminal 58k	Light switch
13	A	Voltage supply for function lights	IHKR/F3 switching unit
14	A	Voltage supply for mixing actuator	Mixing actuator
15	M	Ground for control wheels and inside temperature sensor	IHKR/F3 control switch
16	M	Ground for temperature sensors	Various temperature sensors
17	M	Ground for mixing actuator	Mixing actuator
18	M	Ground for illumination and switches	IHKR/F3 switching unit
19		Not used	
20	E	Push button for air conditioning	IHKR/F3 switching unit
21	E	Push button for air recirculation	IHKR/F3 switching unit
22	E	Push button for rear window defogger	IHKR/F3 switching unit
23	A	Function light, air conditioning	IHKR/F3 switching unit
24	A	Function light, rear window defogger	IHKR/F3 switching unit

E = Input, A = Output, M = Ground

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Pin Assignments

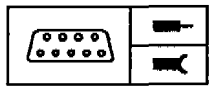
Pin	Type	Description/ Function	Connection
25	A	Function light, air recirculation	IHKR/F3 switching unit
26	A	Function light, air recirculation control	IHKR/F3 switching unit

X18156

Pin	Type	Description/ Function	Connection
1	E	Ground for electronics	Ground point
2		Not used	
3	E	Inside temperature sensor	IHKR/F3 control switch
4	E	Nominal air flow value	IHKR/F3 control switch
5	E	Nominal temperature value, left	IHKR/F3 control switch
6	E	Nominal temperature value, right	IHKR/F3 control switch
7		Not used	
8		Not used	
9	A	Auxiliary fan signal	Engine control module (DME)
10	M	Ground for electronics	Ground point
11		Not used	
12	E	Voltage supply (terminal 30)	Front power distribution box
13	E	Voltage supply (terminal 30)	Front power distribution box
14		Not used	
15	A	Water valve activation, right	IHKR/F3 control switch
16		Not used	
17		Not used	
18	E	Terminal 15 (independent ventilation only)	
19		Not used	
20		Not used	
21		Not used	
22	A	Water valve activation	IHKR/F3 control switch
23	E	Voltage supply (terminal 15)	Front power distribution box
24		Not used	
25	E	Terminal 61	Unloader relay terminal 61
26	E	Terminal 30h	Starter

E = Input, A = Output, M = Ground

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Pin Assignments

X18157

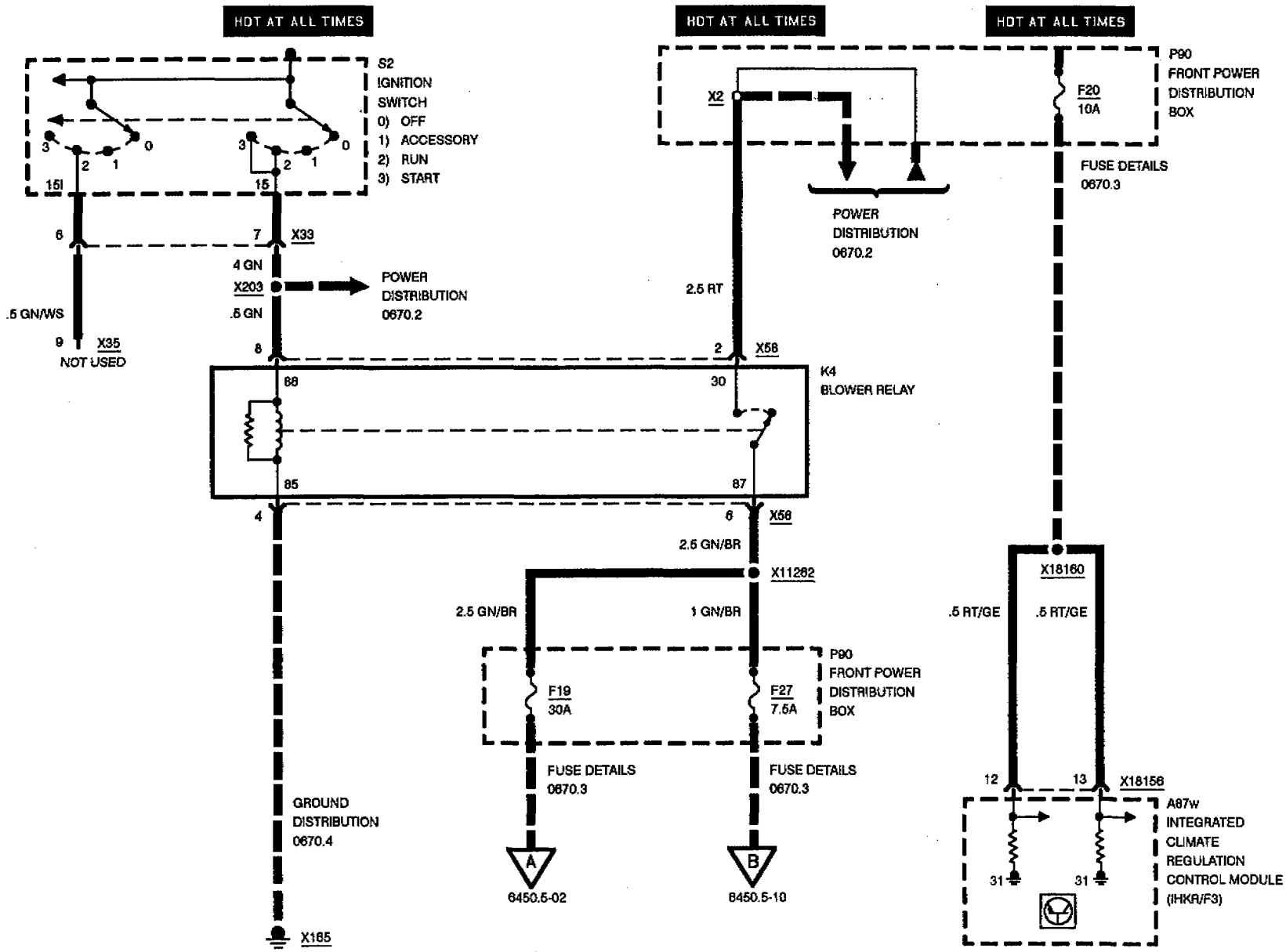
Pin	Type	Description/ Function	Connection
1	A	Voltage supply for flap motors	All flap motors
2	A	Voltage supply for flap motors	All flap motors
3		Not used	
4		Not used	
5		Not used	
6	A	Recirculation flap motor activation	Recirculation flap motor
7	A	Recirculation flap motor activation	Recirculation flap motor
8	A	Recirculation flap motor activation	Recirculation flap motor
9	A	Recirculation flap motor activation	Recirculation flap motor
10	A	Fresh air flap motor activation	Fresh air flap motor
11	A	Fresh air flap motor activation	Fresh air flap motor
12	A	Fresh air flap motor activation	Fresh air flap motor
13	A	Fresh air flap motor activation	Fresh air flap motor
14	A	Voltage supply for control wheels	IHKR/F3 control switch
15	E	RxD diagnostic data line	Data link connector RxD
16	E/A	TxD diagnostic data line	Data link connector TxD
17		Not used	
18	A	Sensor for activation	IHKR/F3 control switch
19	A	Auxiliary water pump activation	Auxiliary water pump relay
20	A	Rear window defogger activation	Rear defogger relay
21		Not used	
22	A	A/C compressor activation	Engine control module (DME)
23	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
24	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
25	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
26	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

E = Input, A = Output, M = Ground

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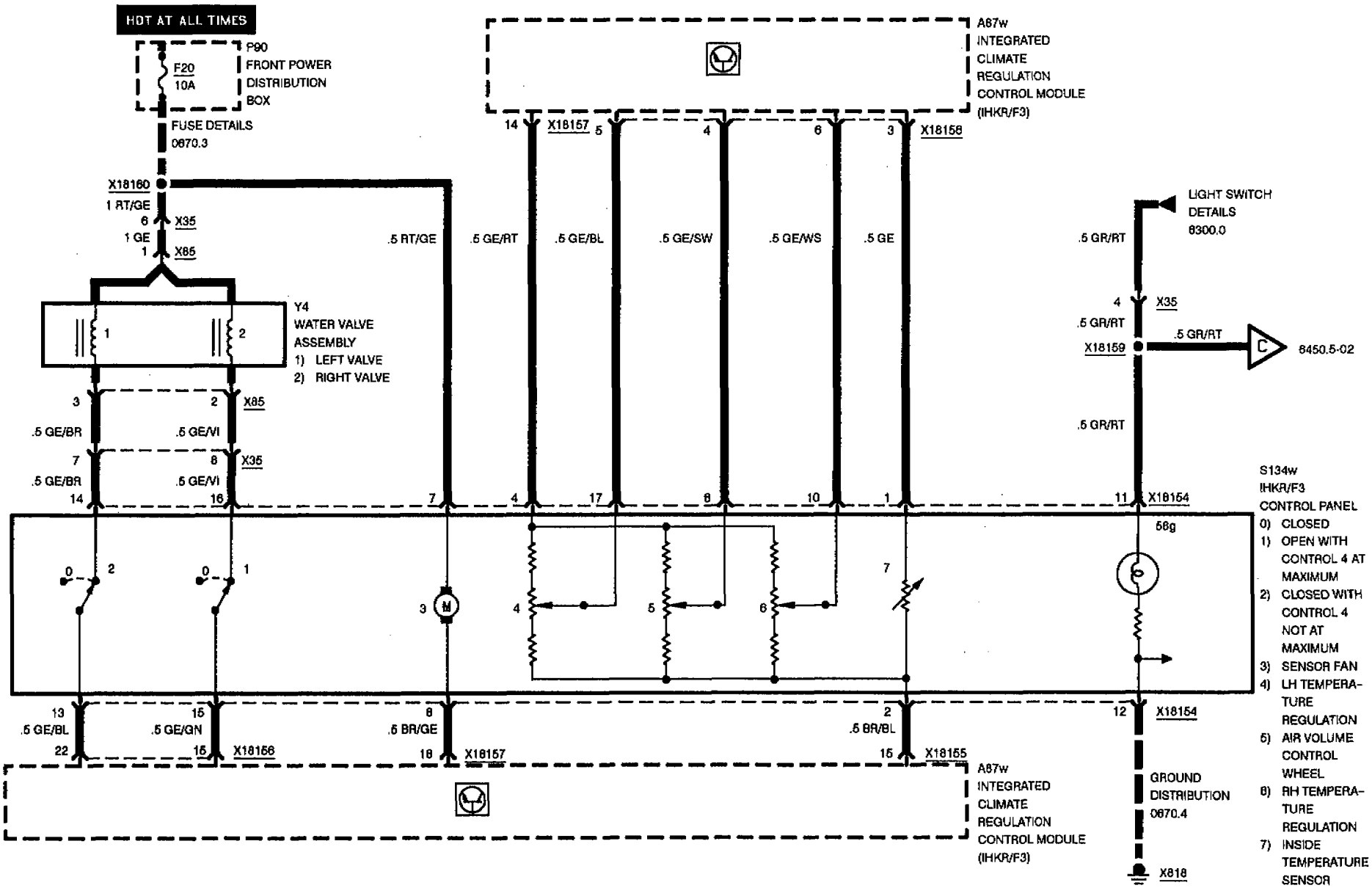
INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

POWER



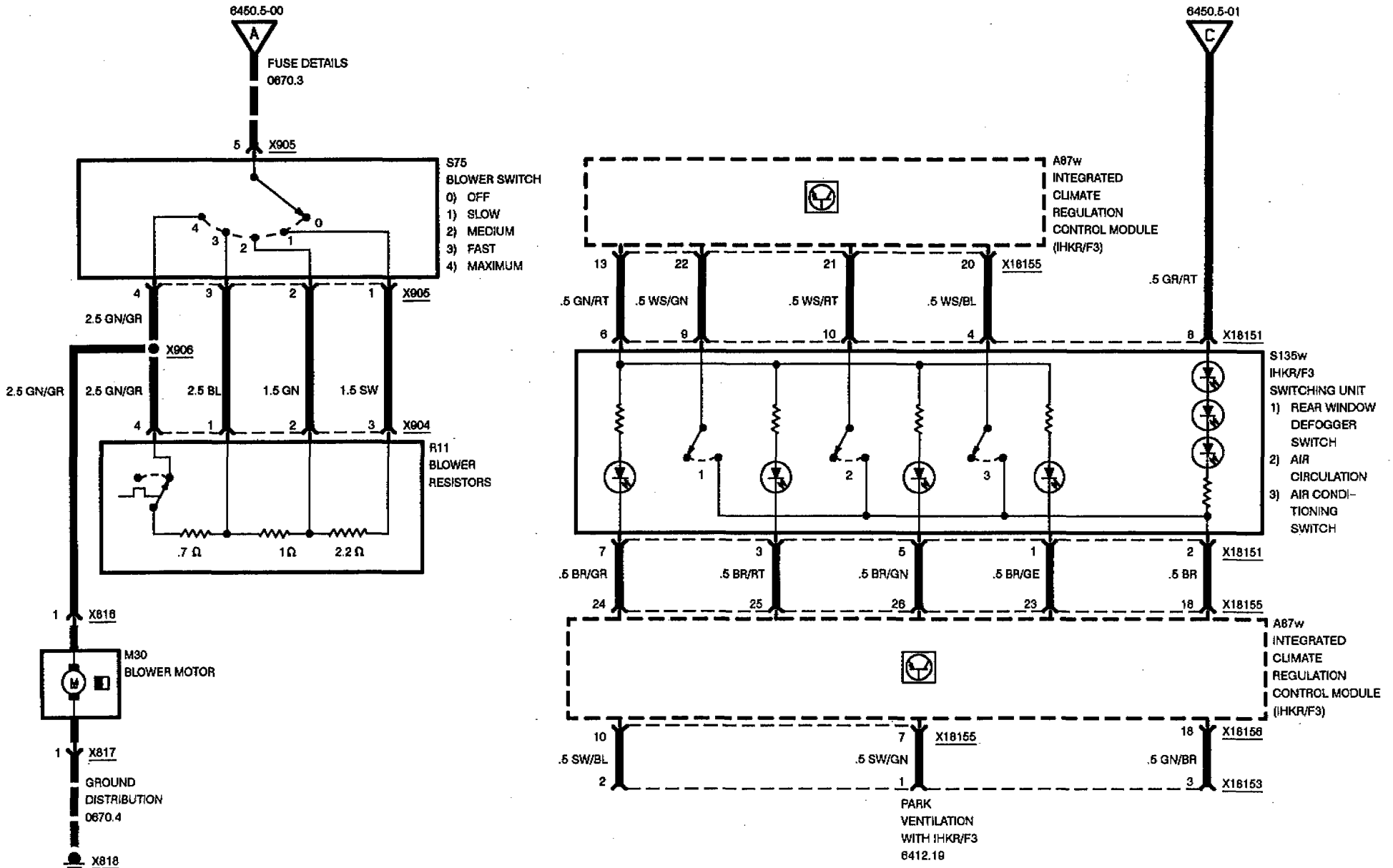
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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)



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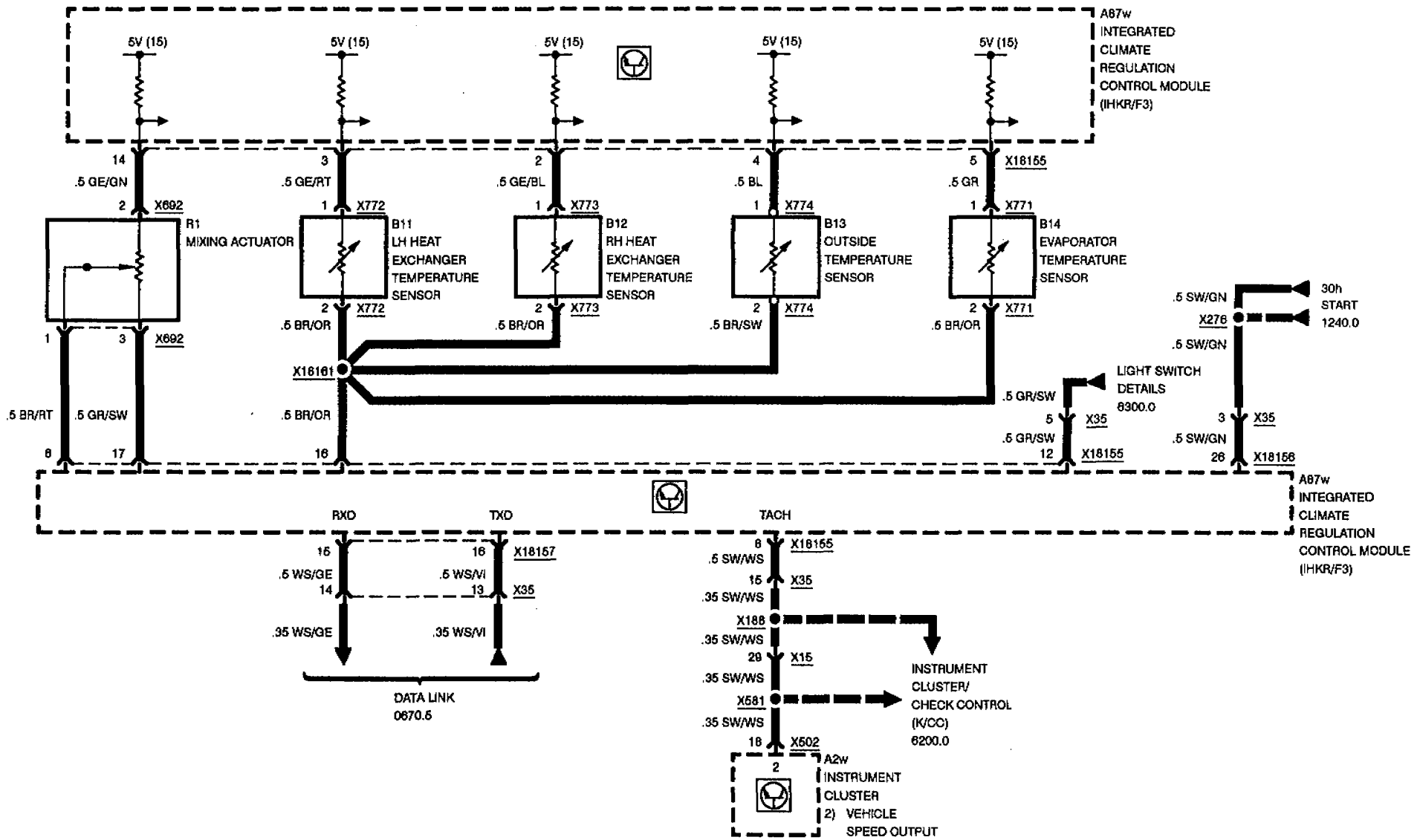
INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)



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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

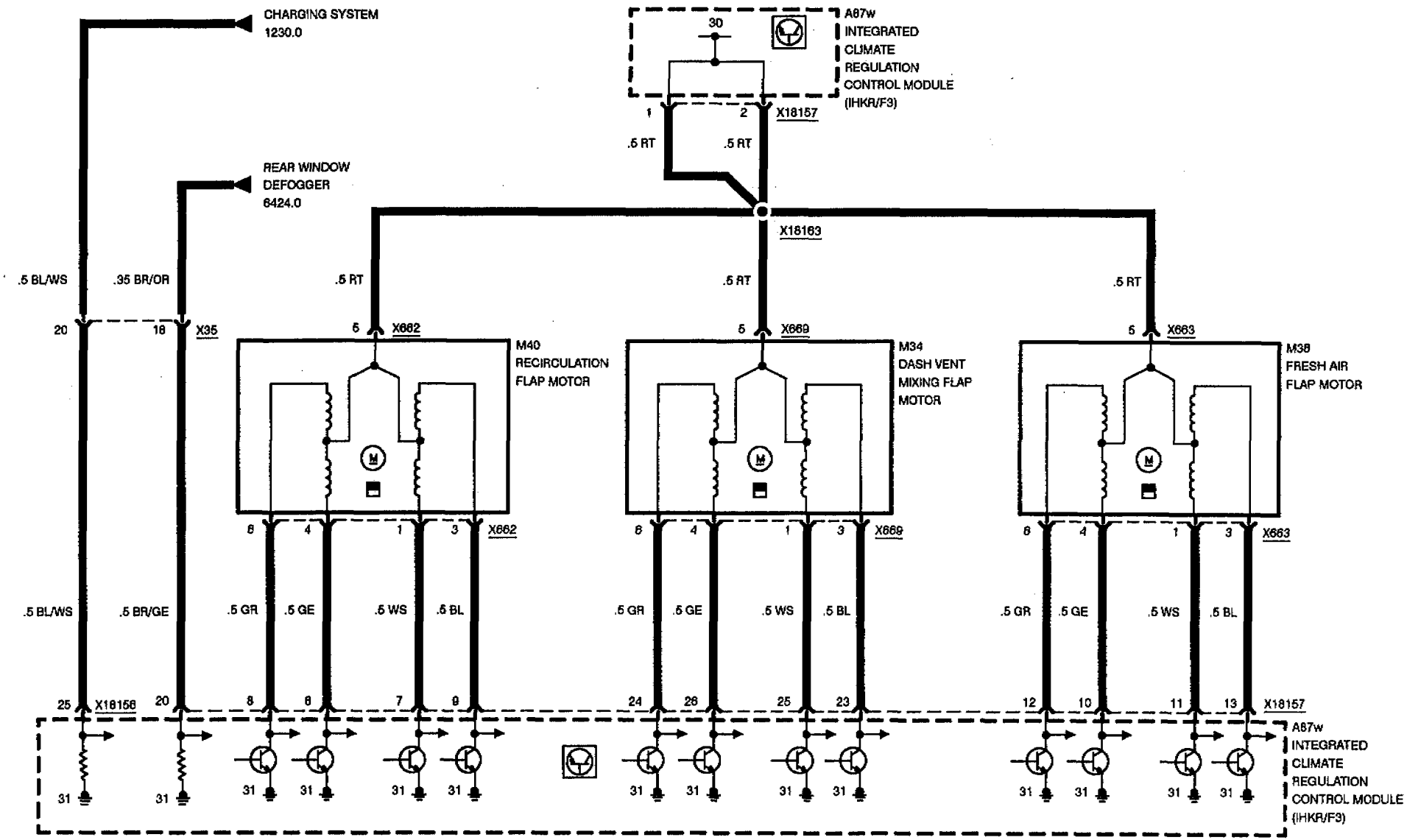
TEMPERATURE CONTROLS



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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

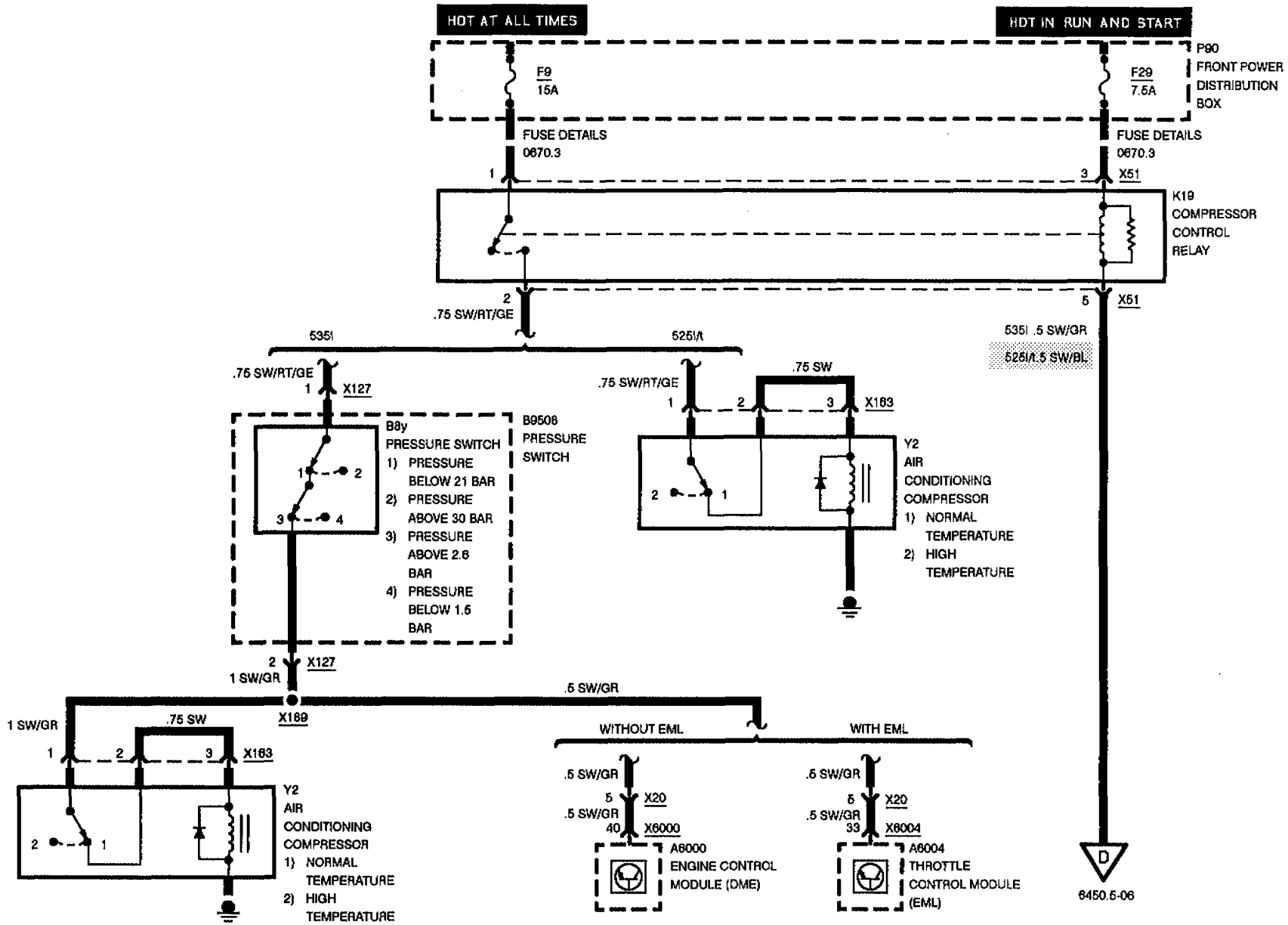
AIR DELIVERY



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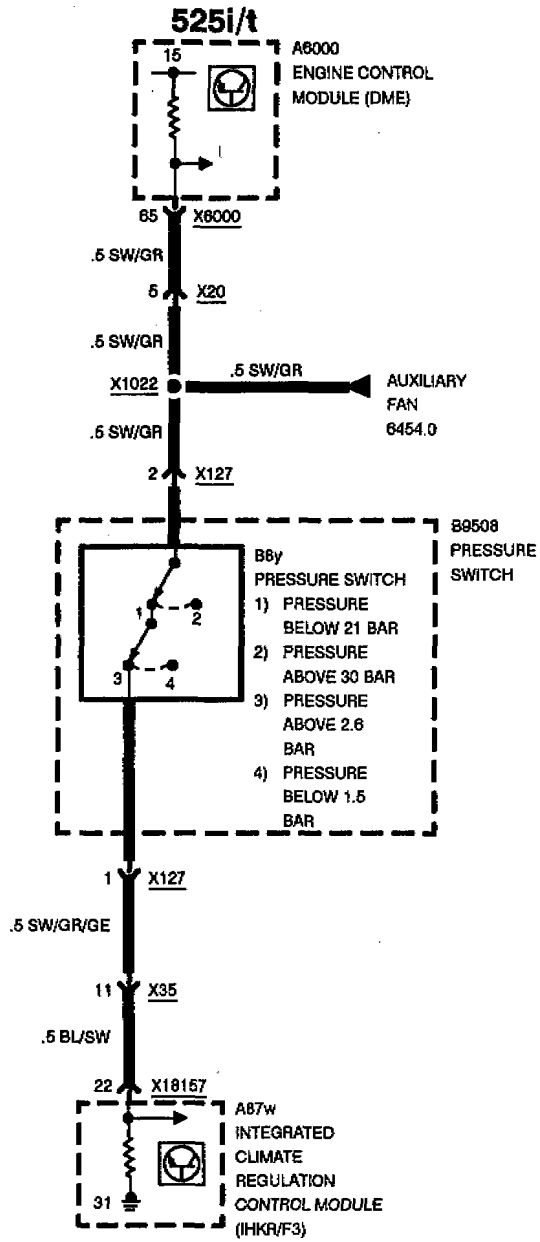
INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

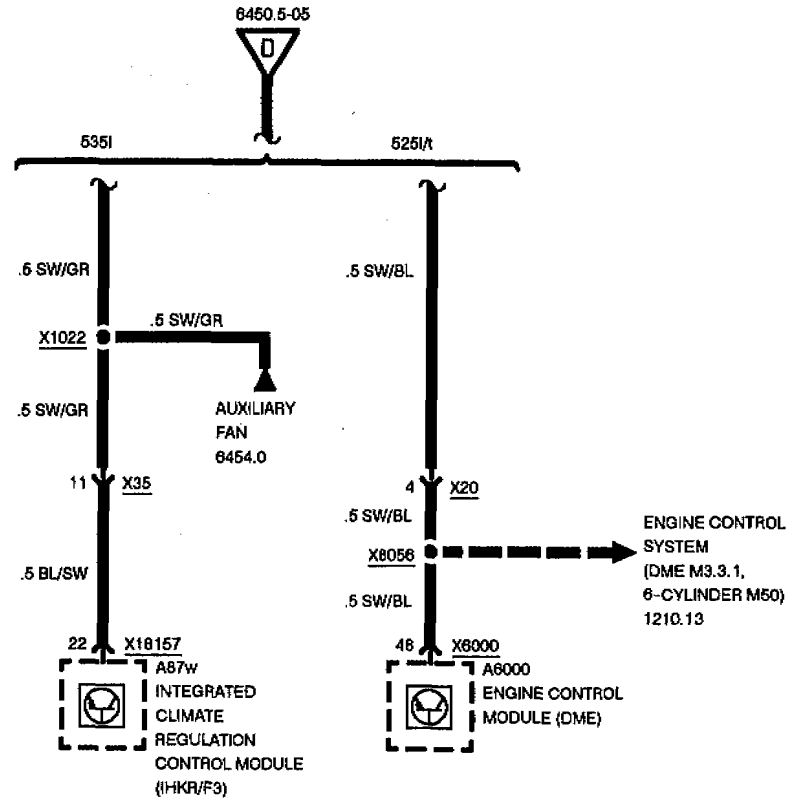
COMPRESSOR CONTROLS



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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

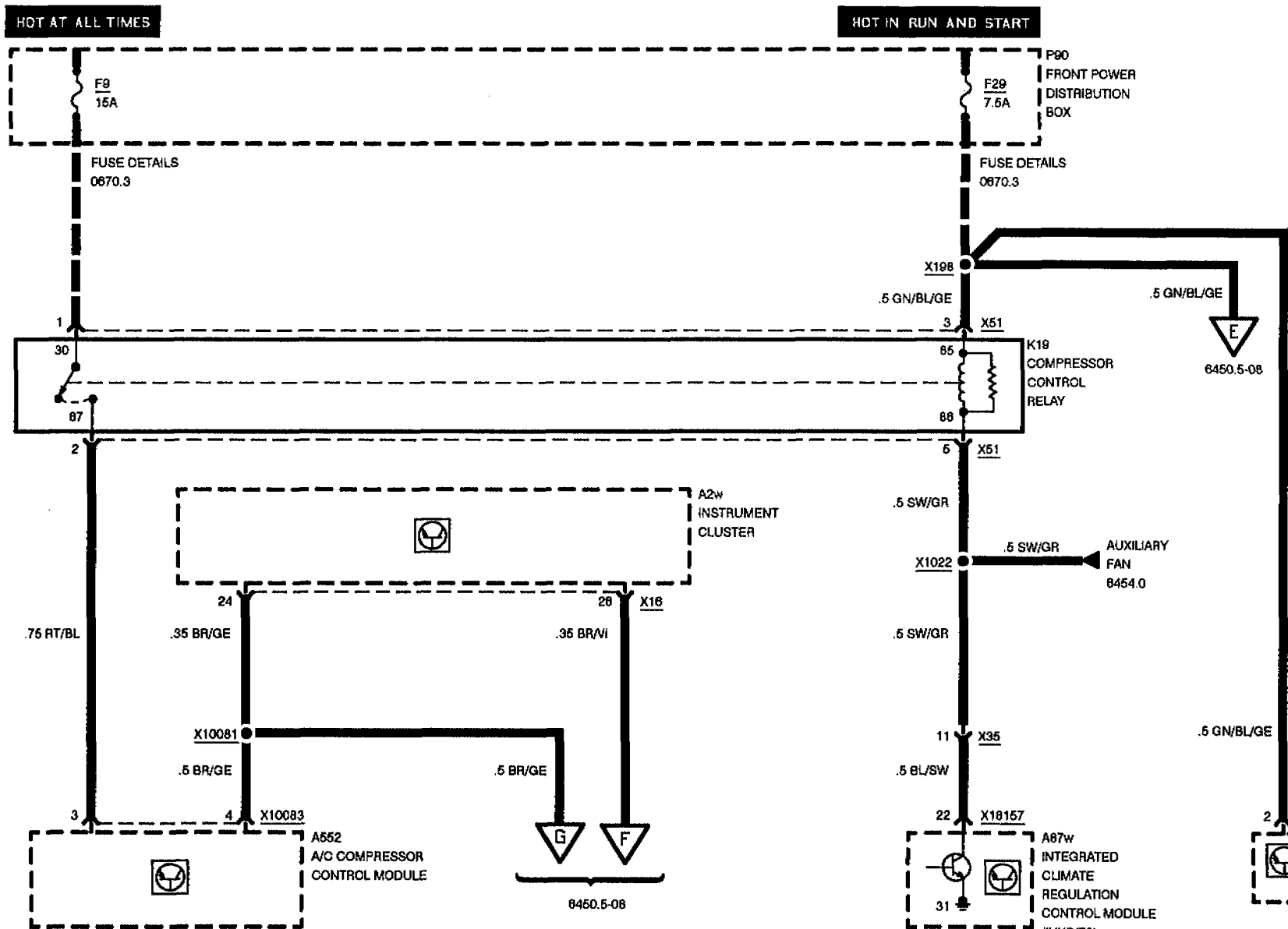




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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

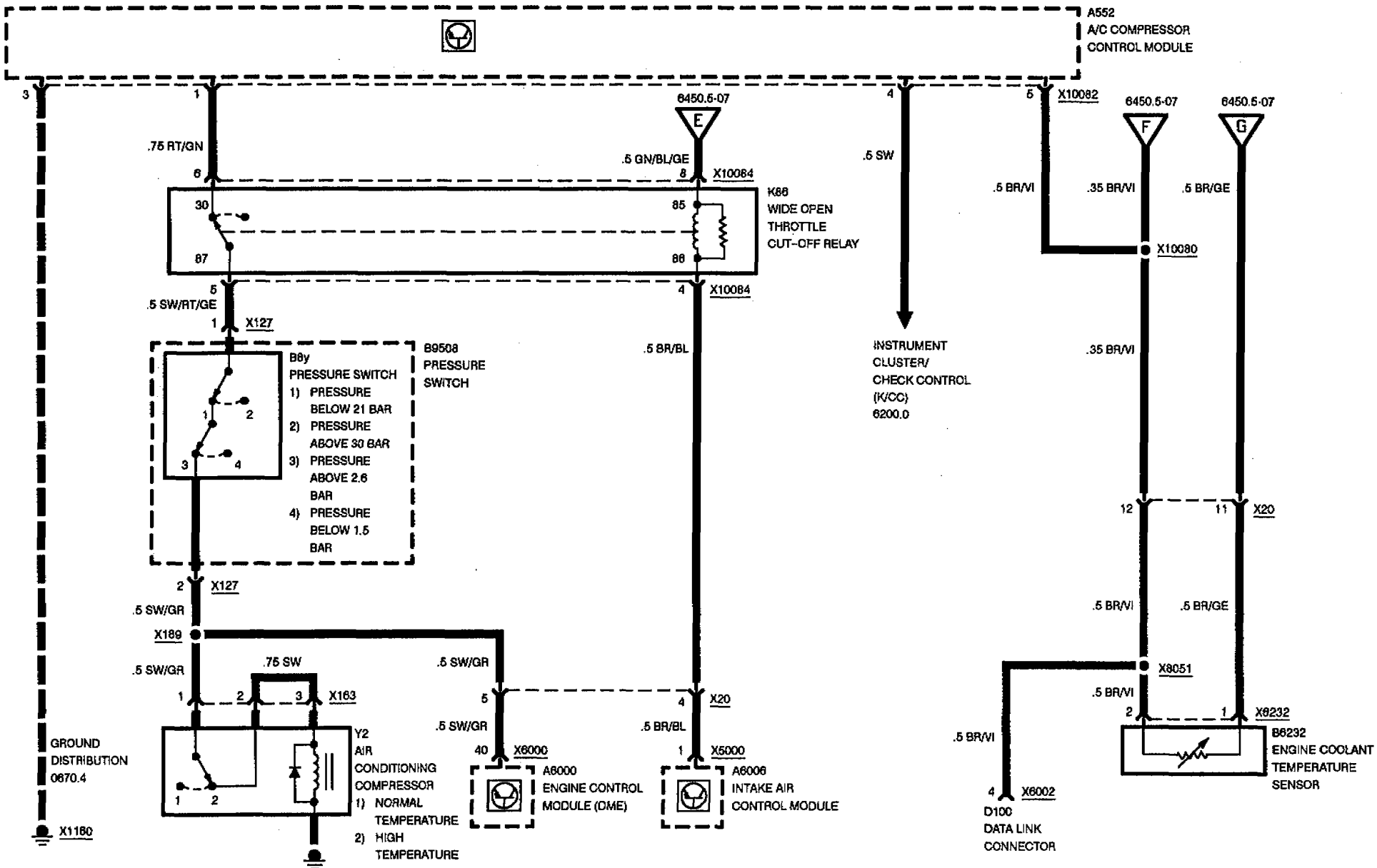
COMPRESSOR CONTROL FOR M5



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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

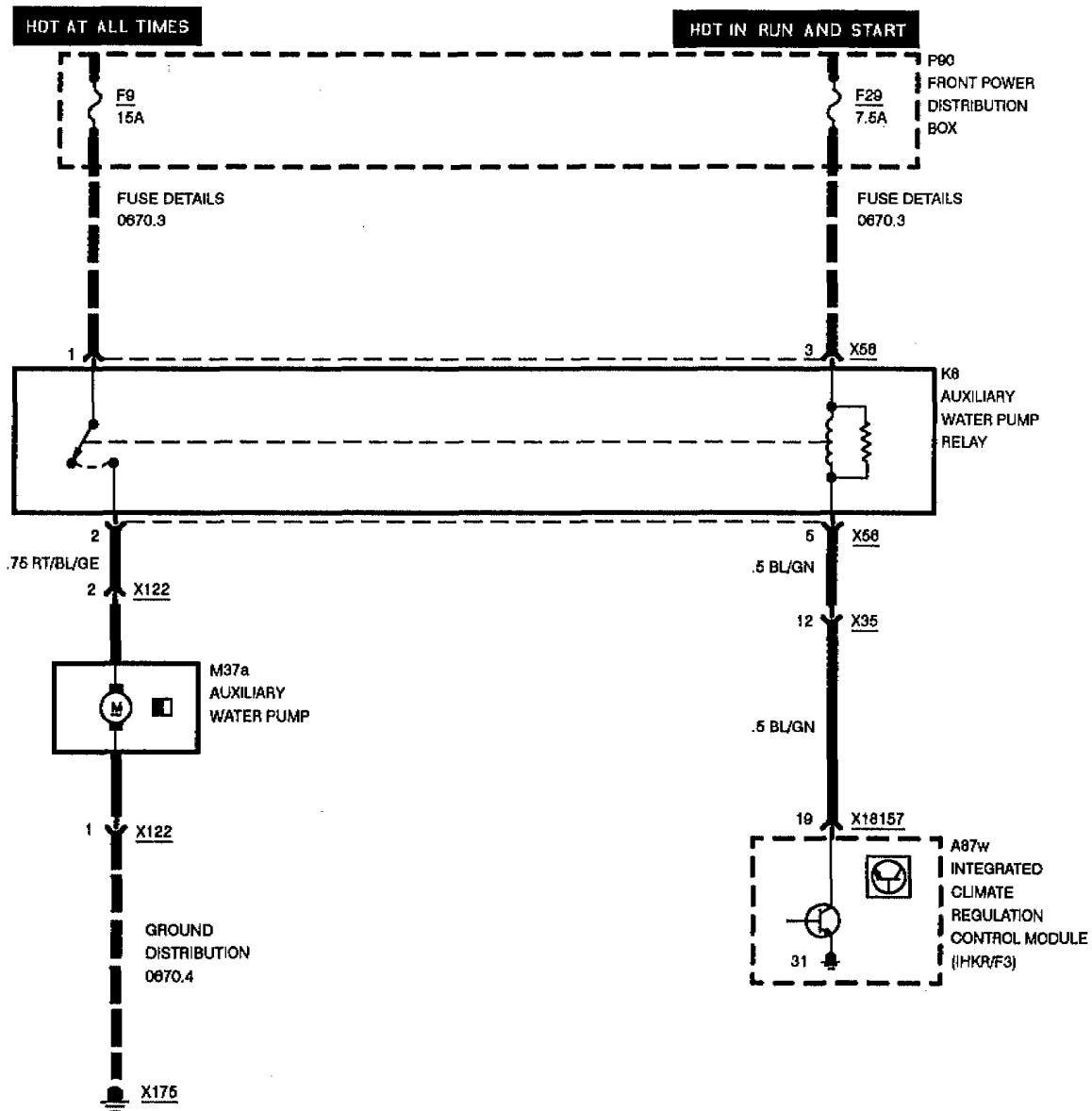
COMPRESSOR CONTROL FOR M5



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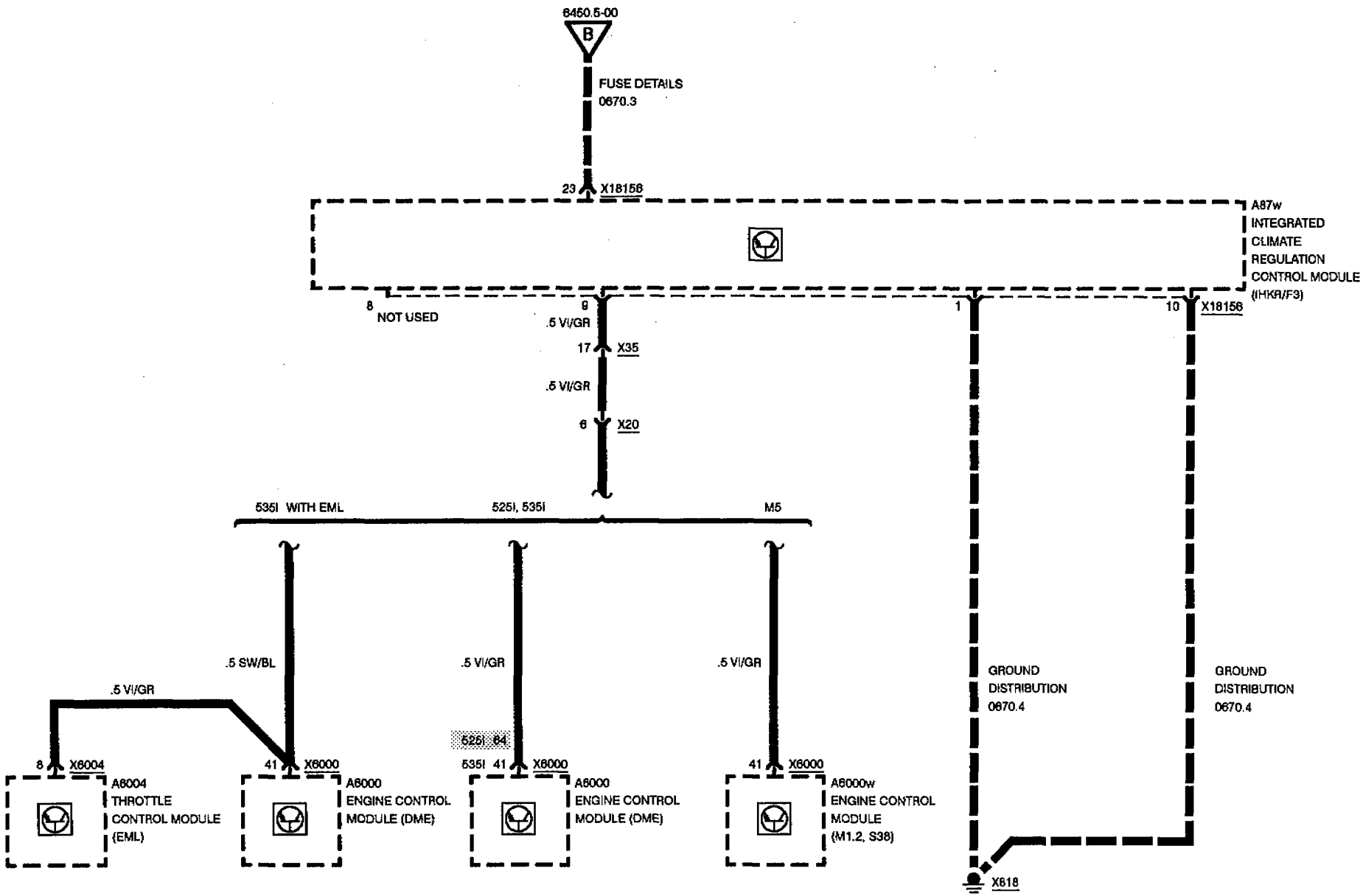
INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

AUXILIARY WATER PUMP



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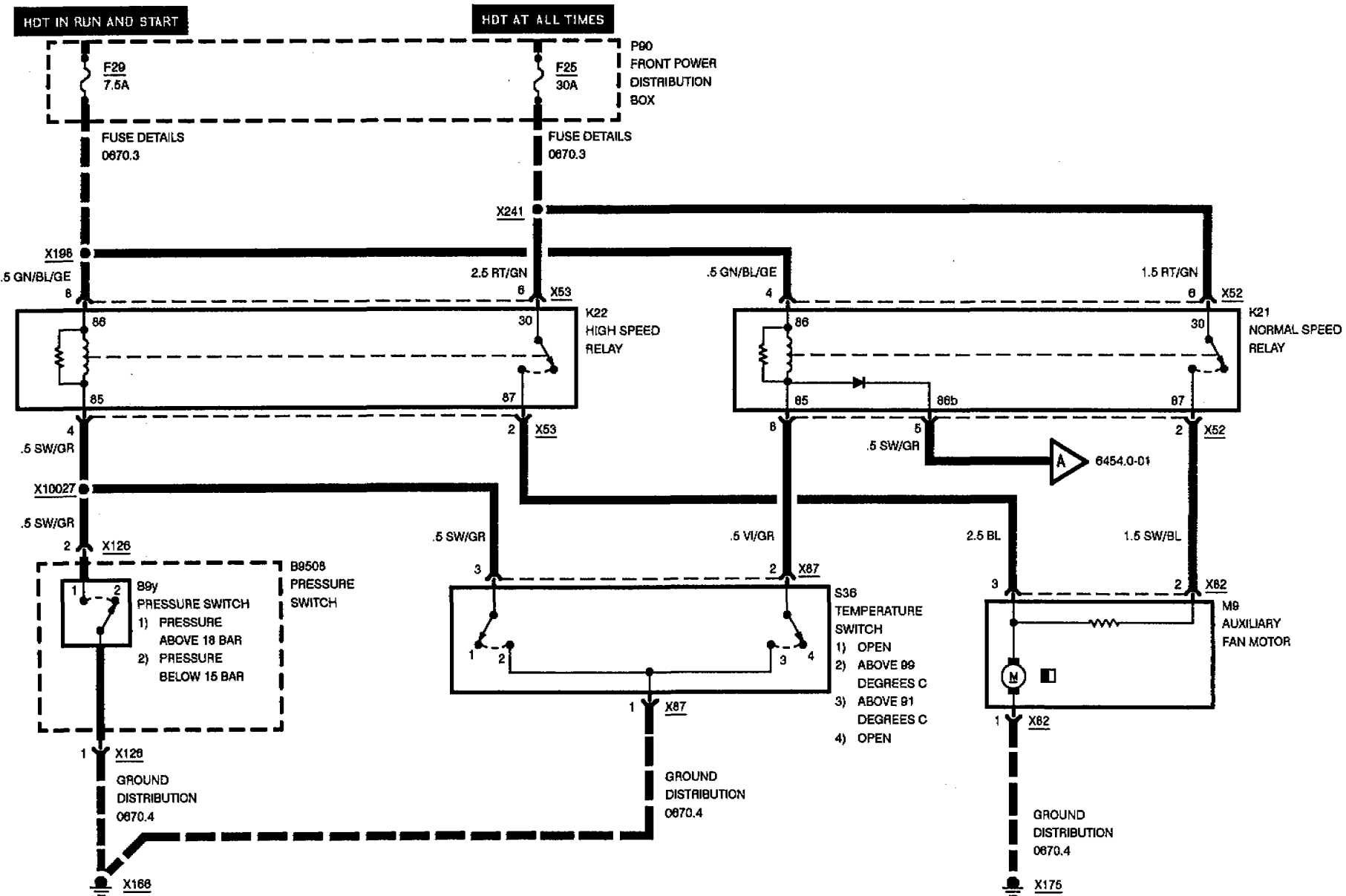
INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)



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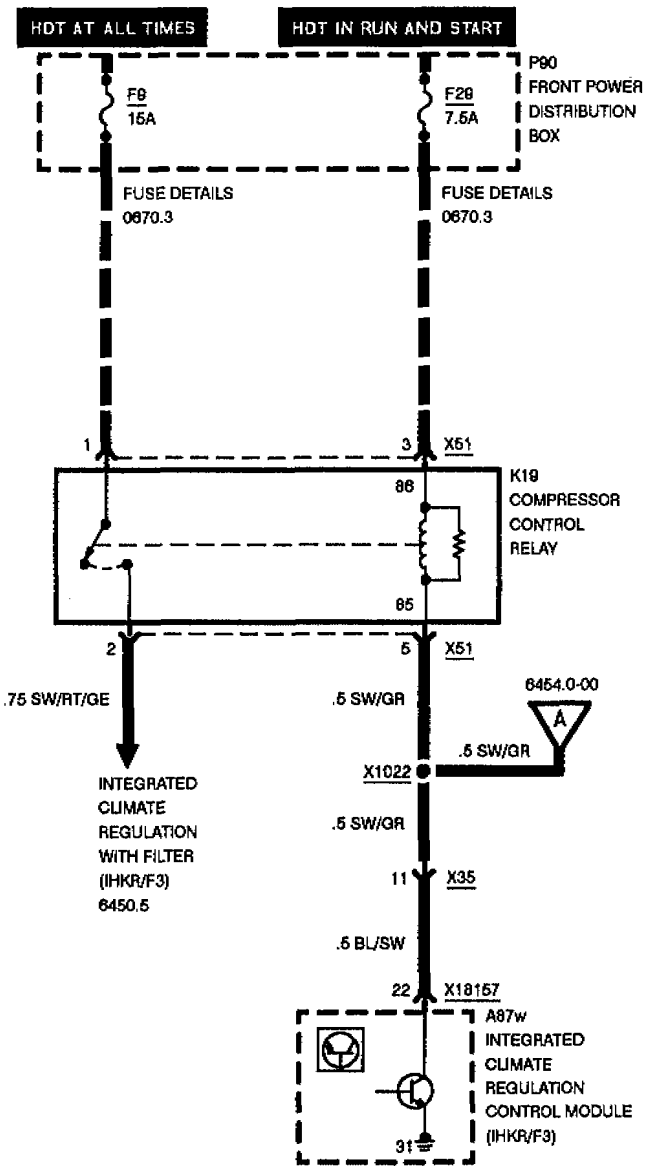
AUXILIARY FAN



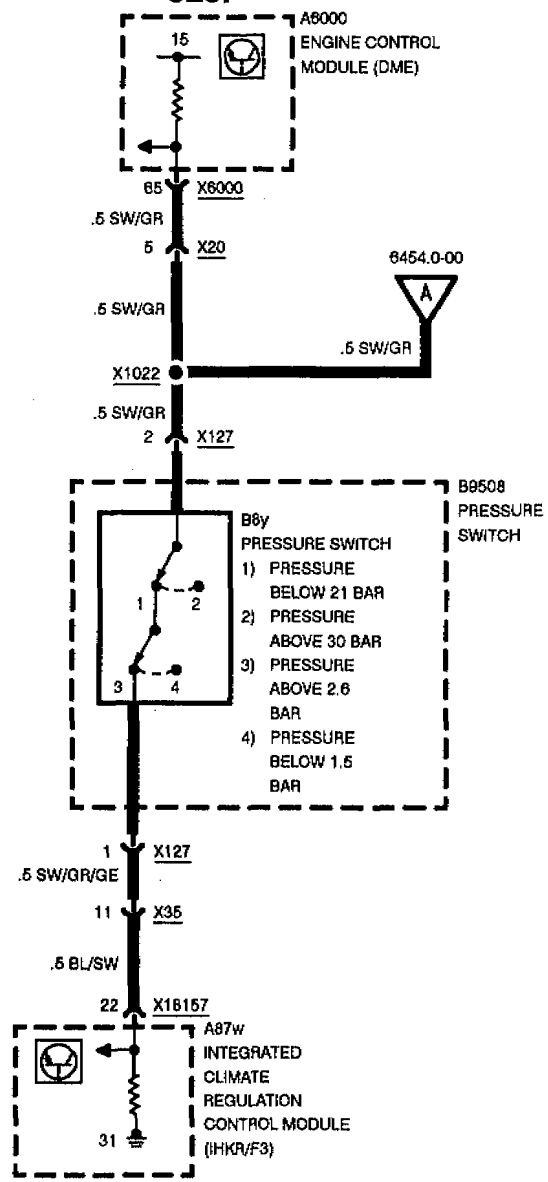
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AUXILIARY FAN

535i, M5



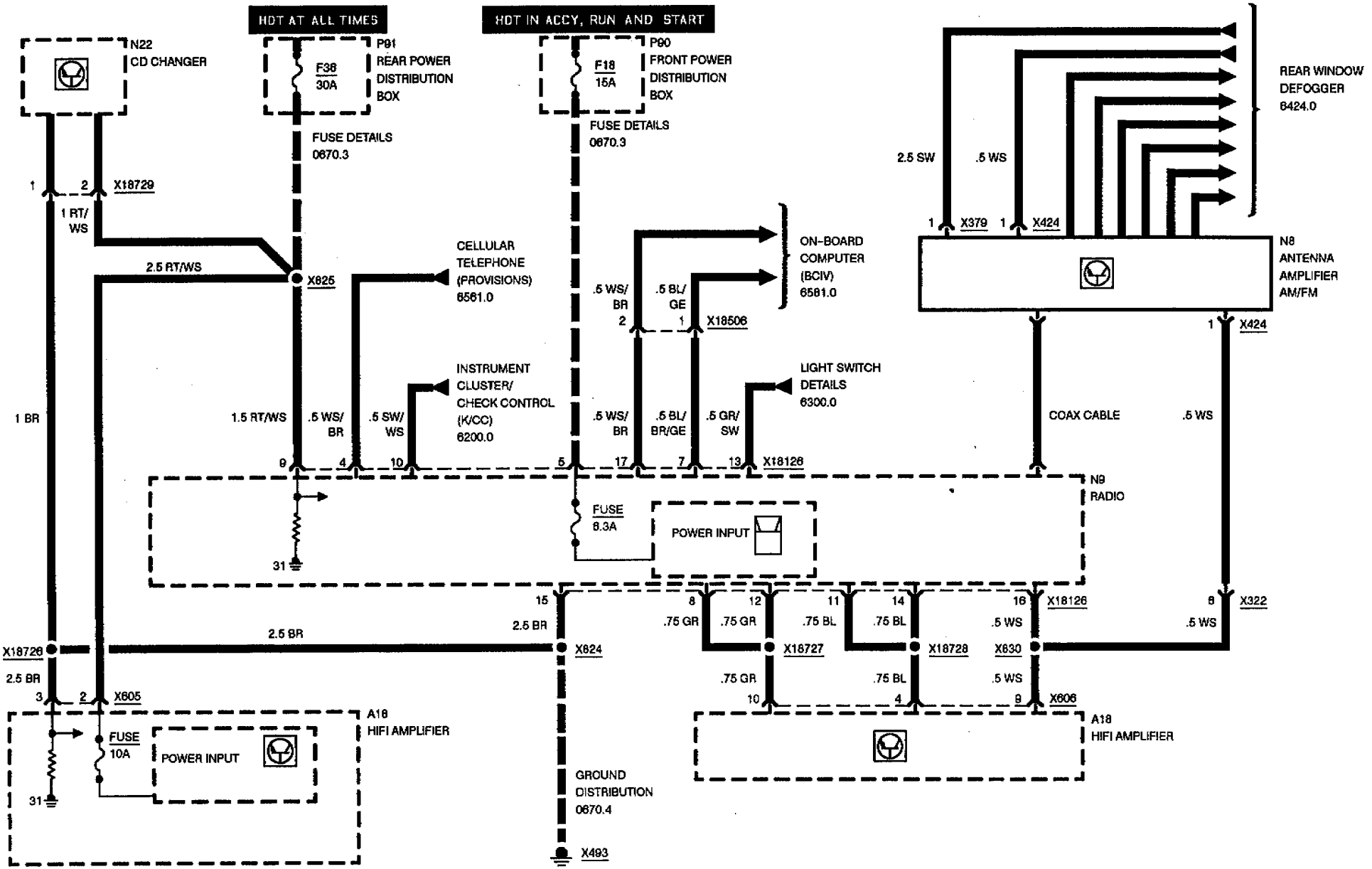
525i



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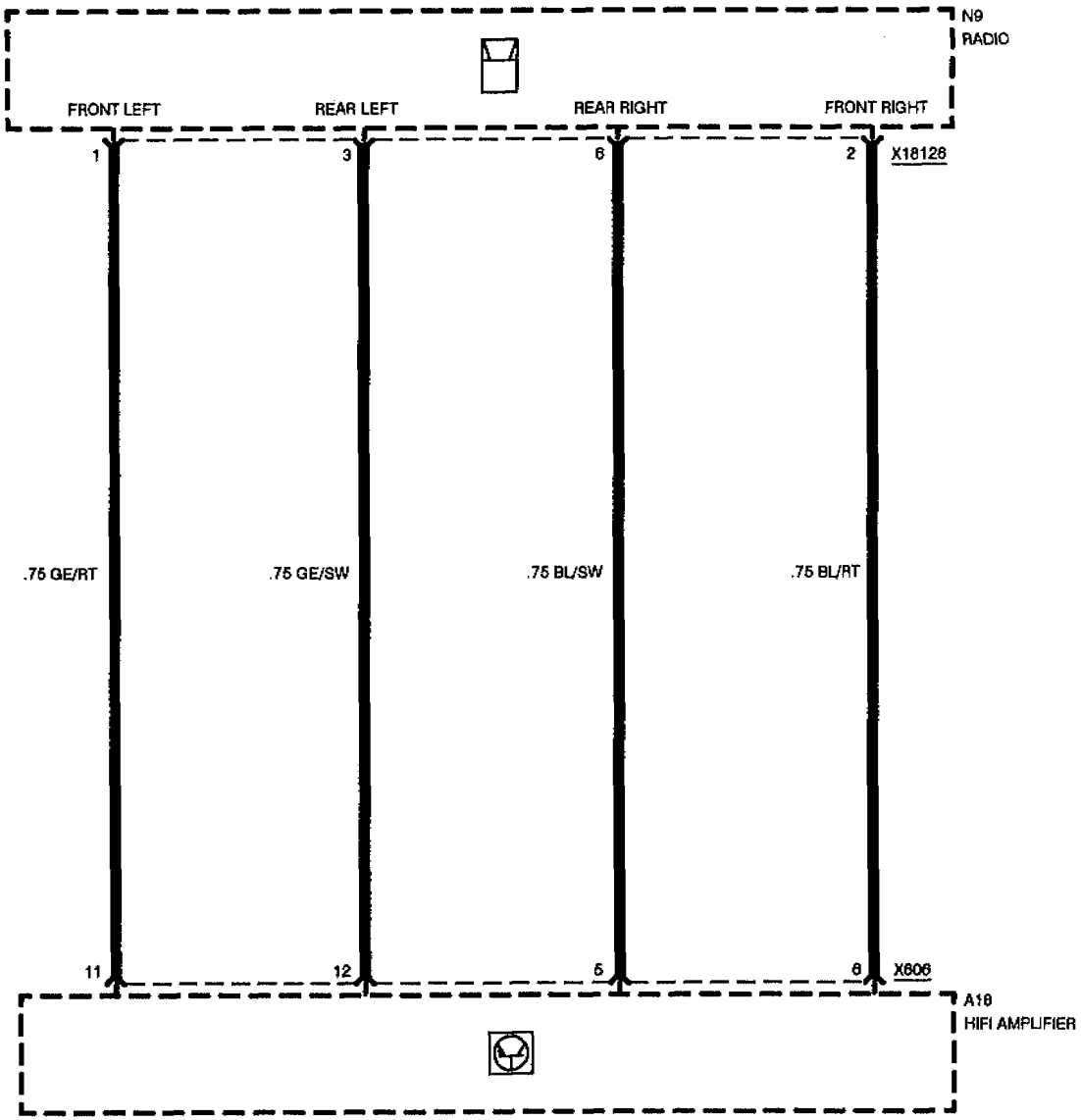
RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

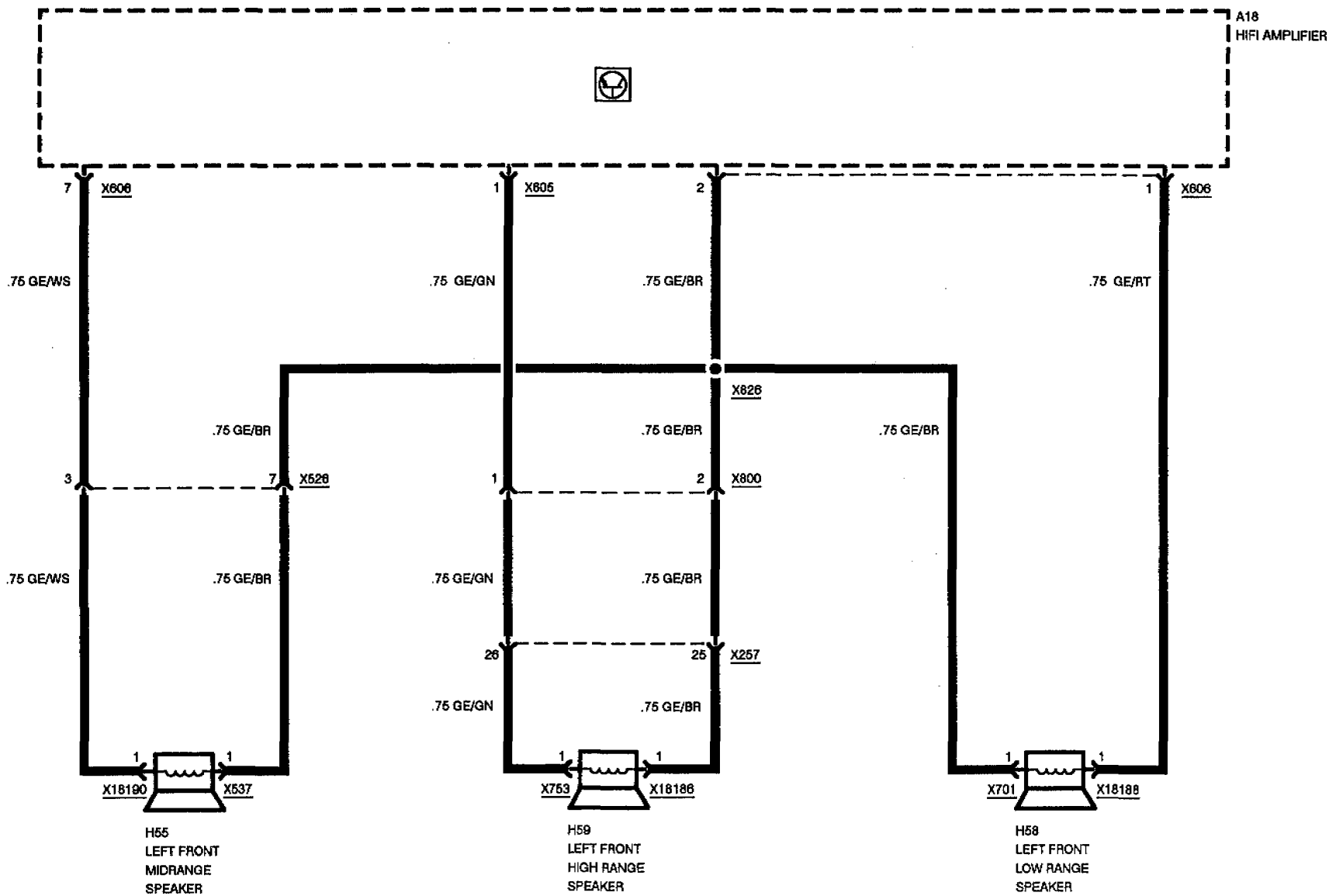


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HIFI, 10-SPEAKER SYSTEM



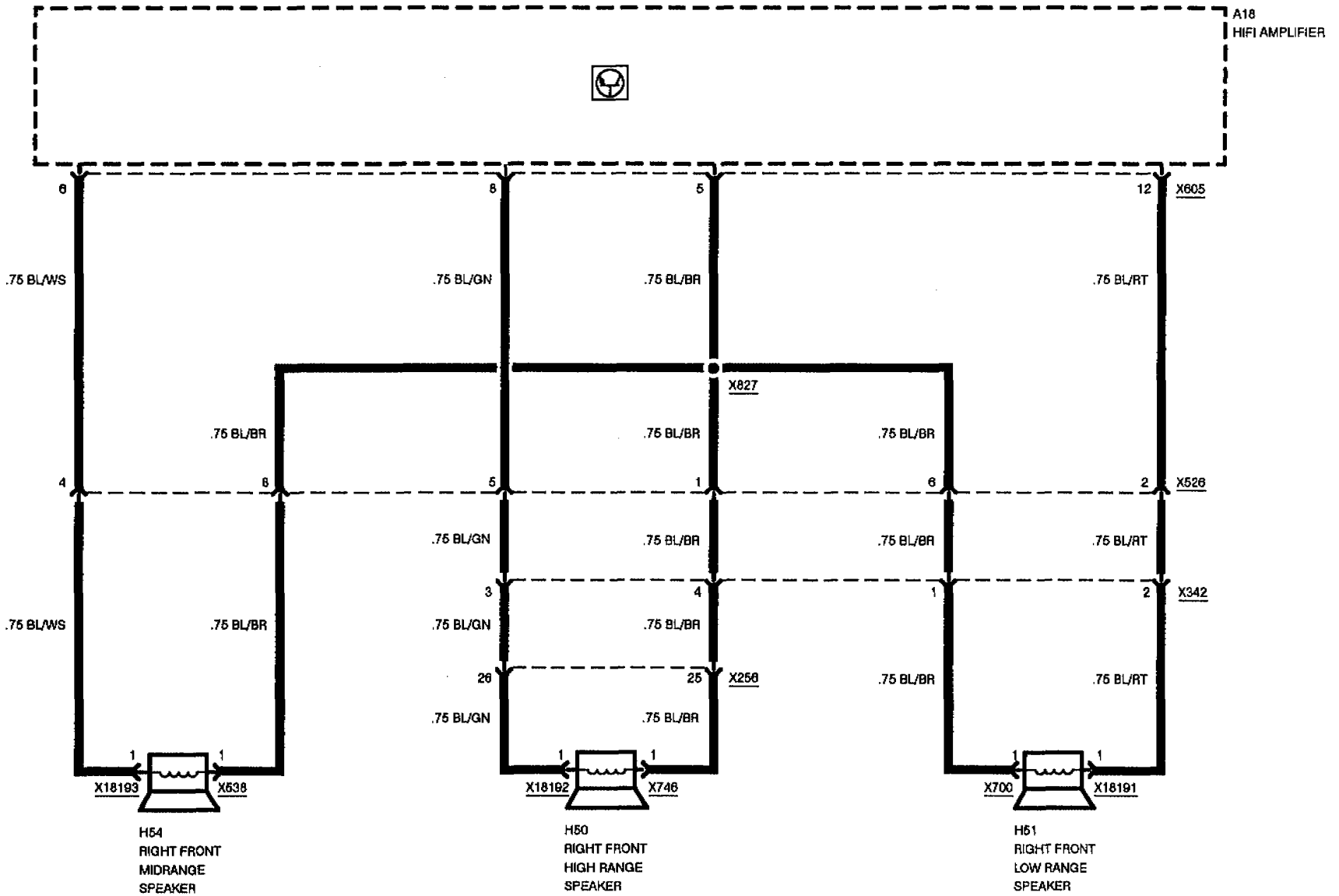
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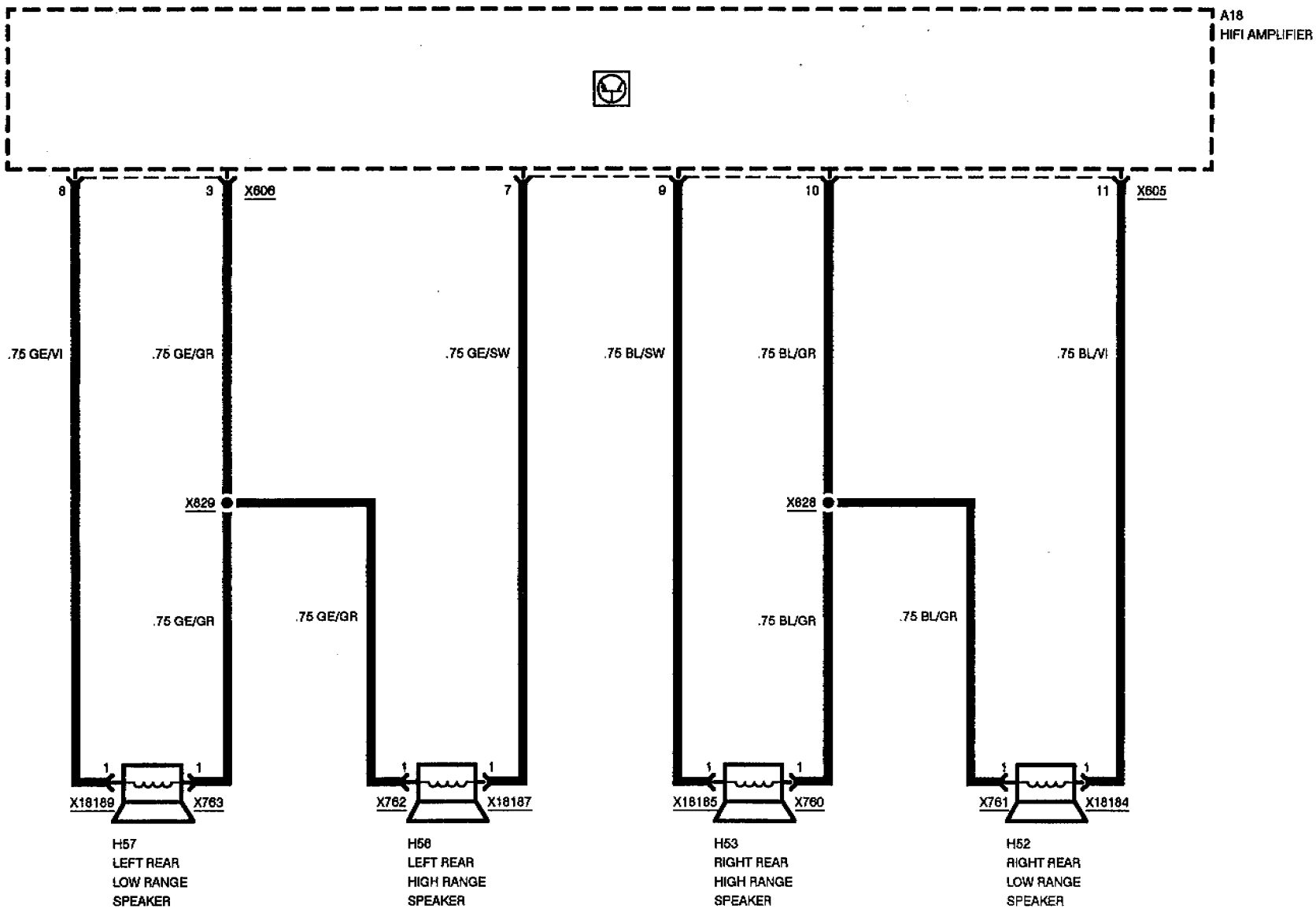
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RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM



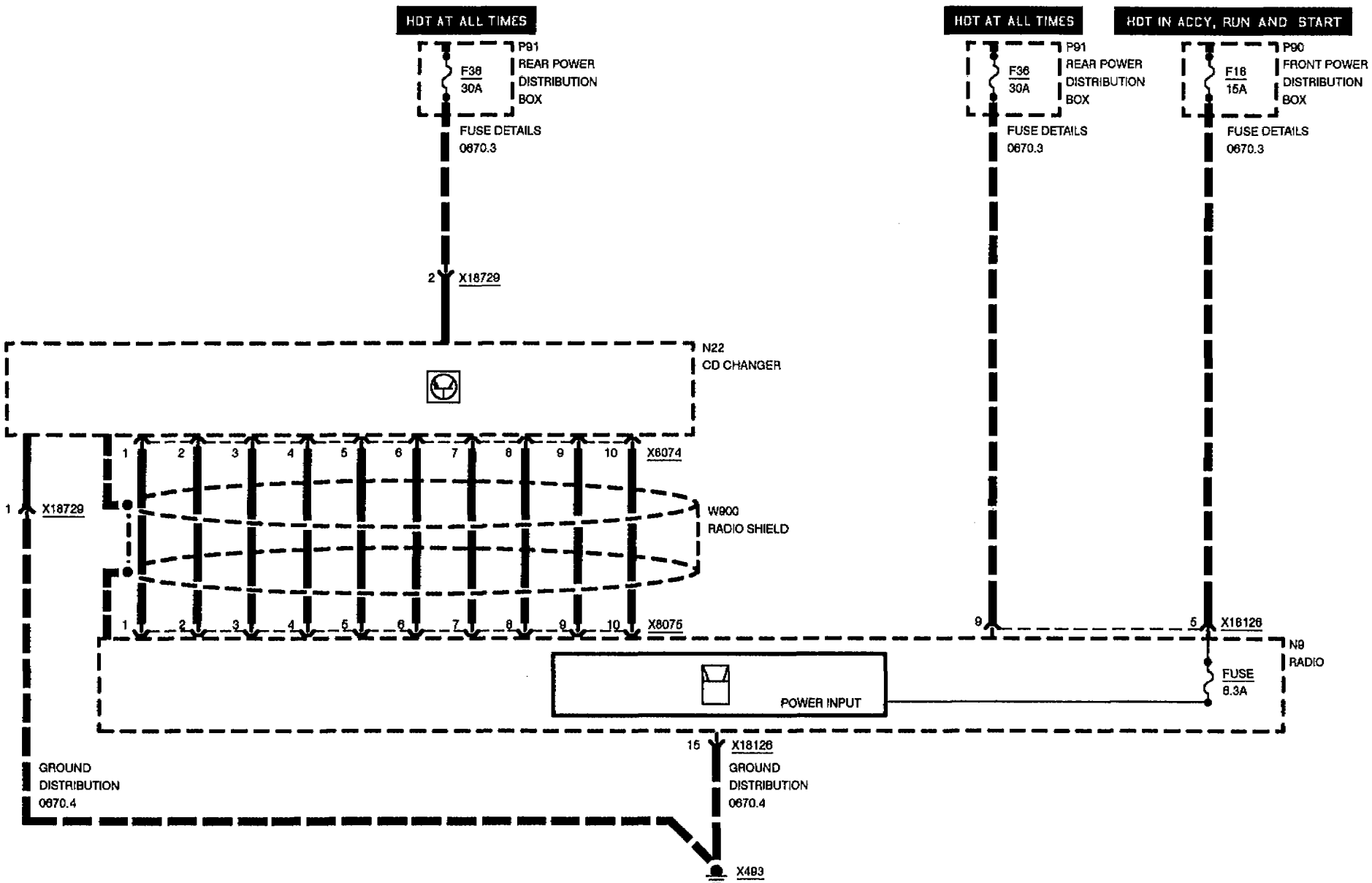
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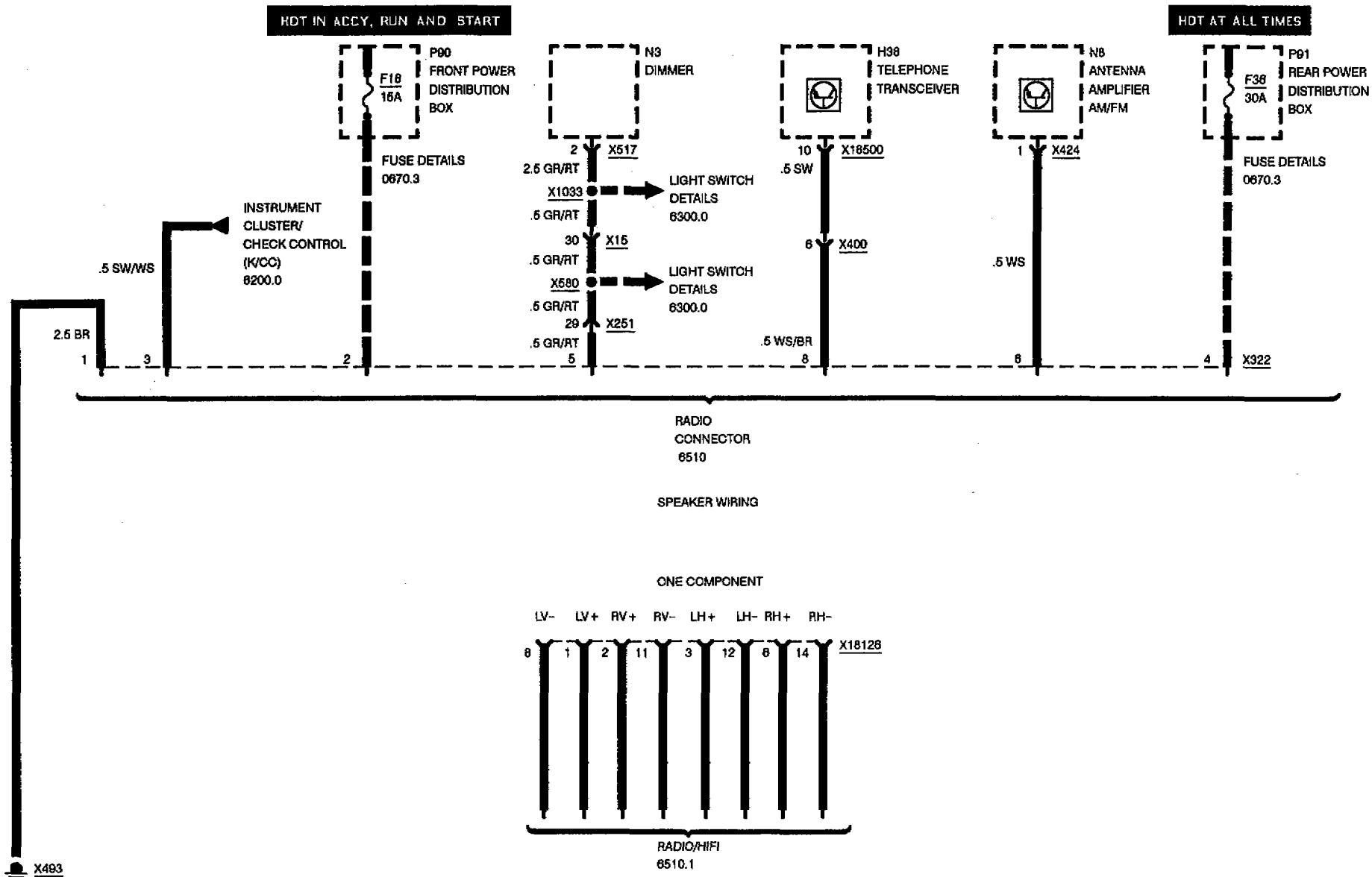
RADIO/HIFI

RADIO/CD PLAYER VARIATION



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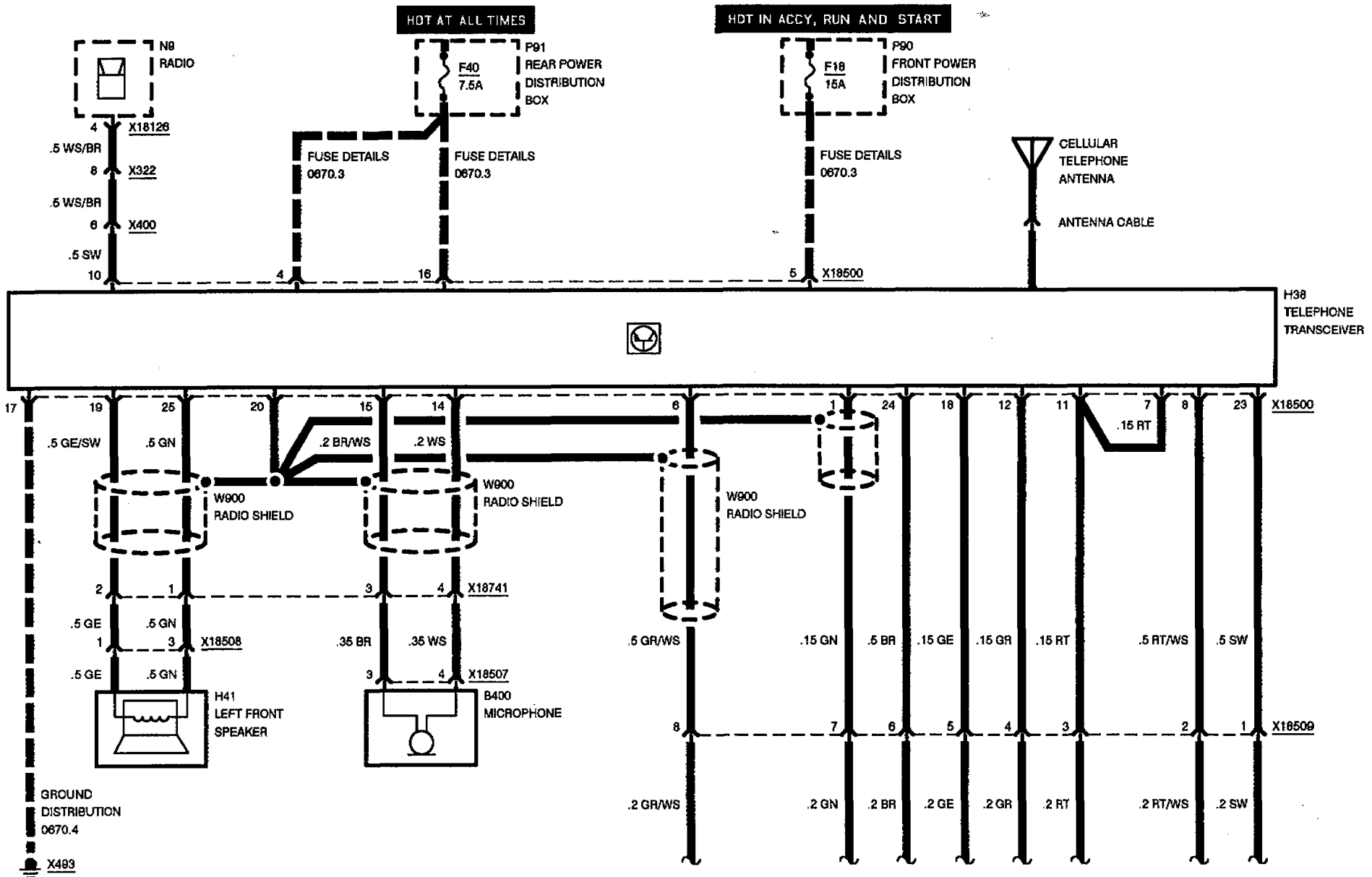
RADIO PROVISIONS



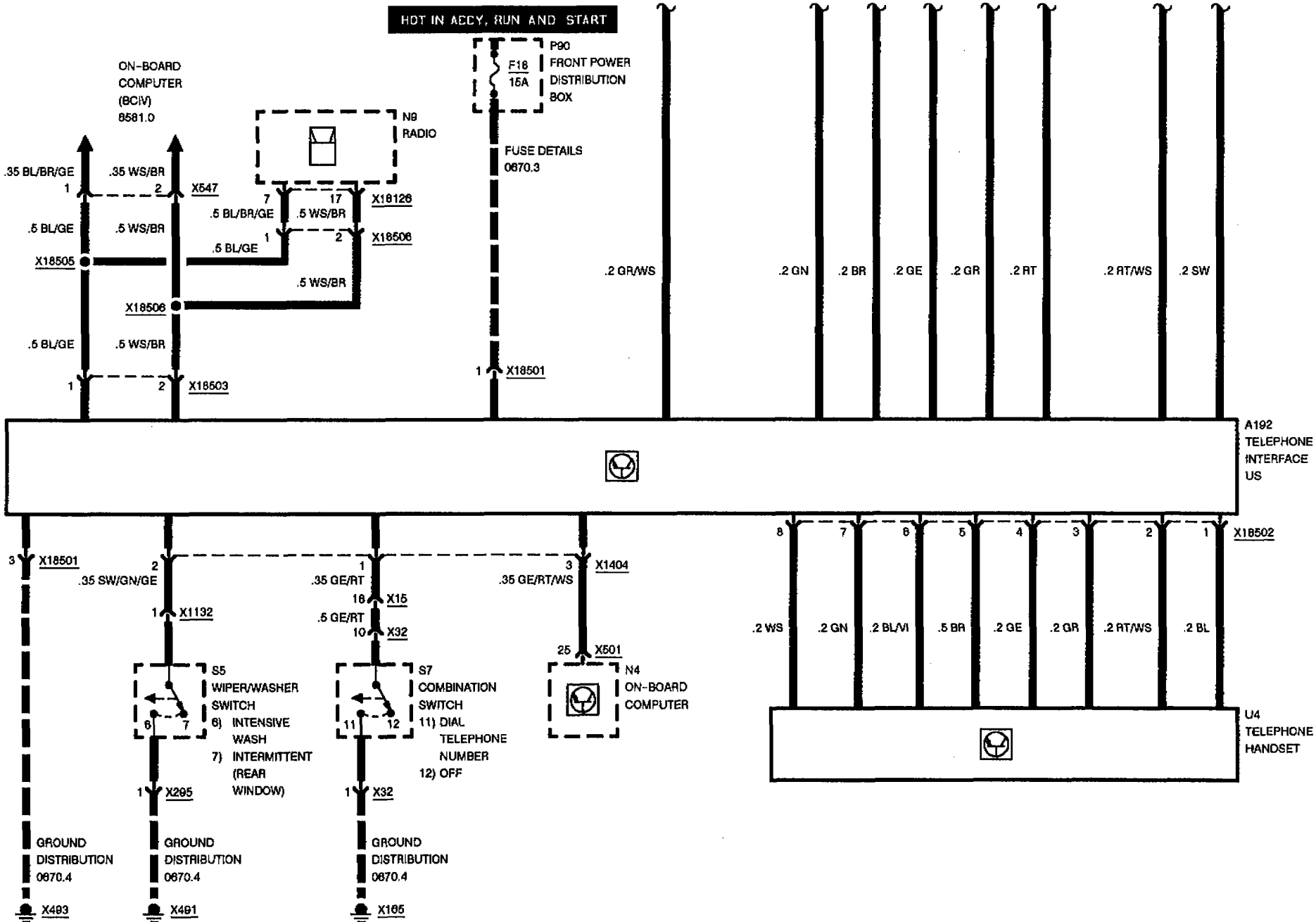
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CELLULAR TELEPHONE (PROVISIONS)
WITH INTERFACE



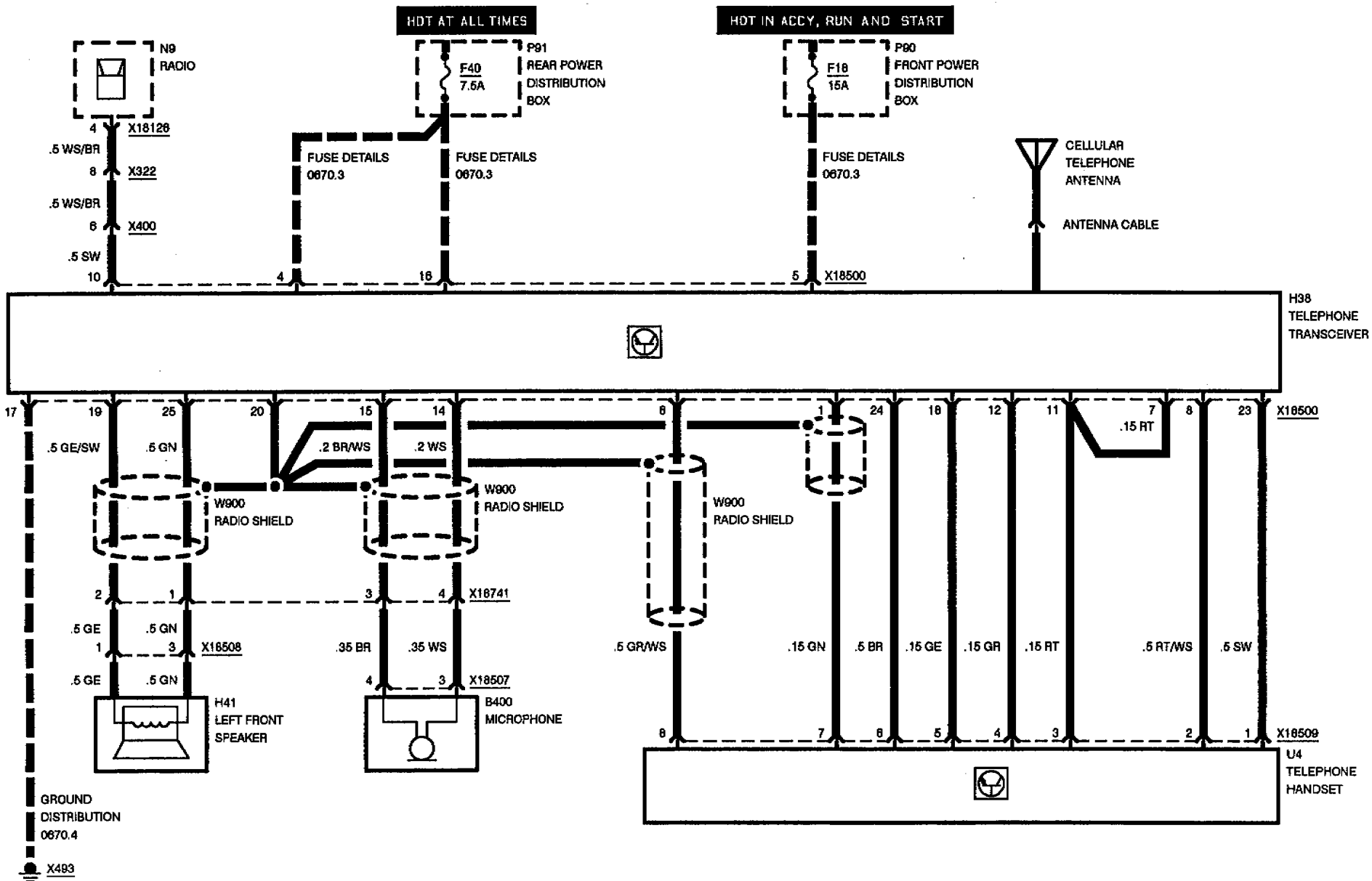
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CELLULAR TELEPHONE (PROVISIONS)

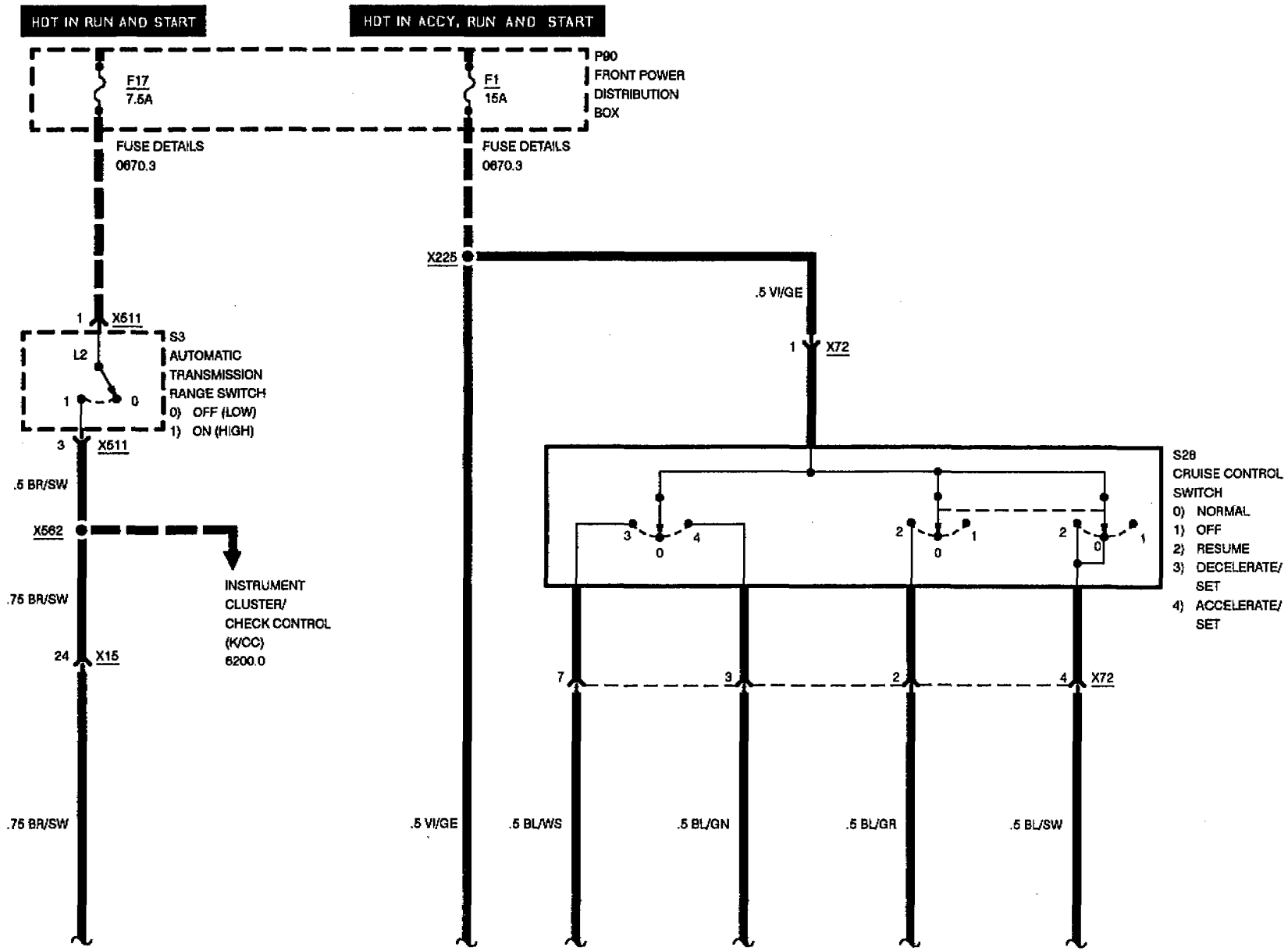
WITHOUT INTERFACE



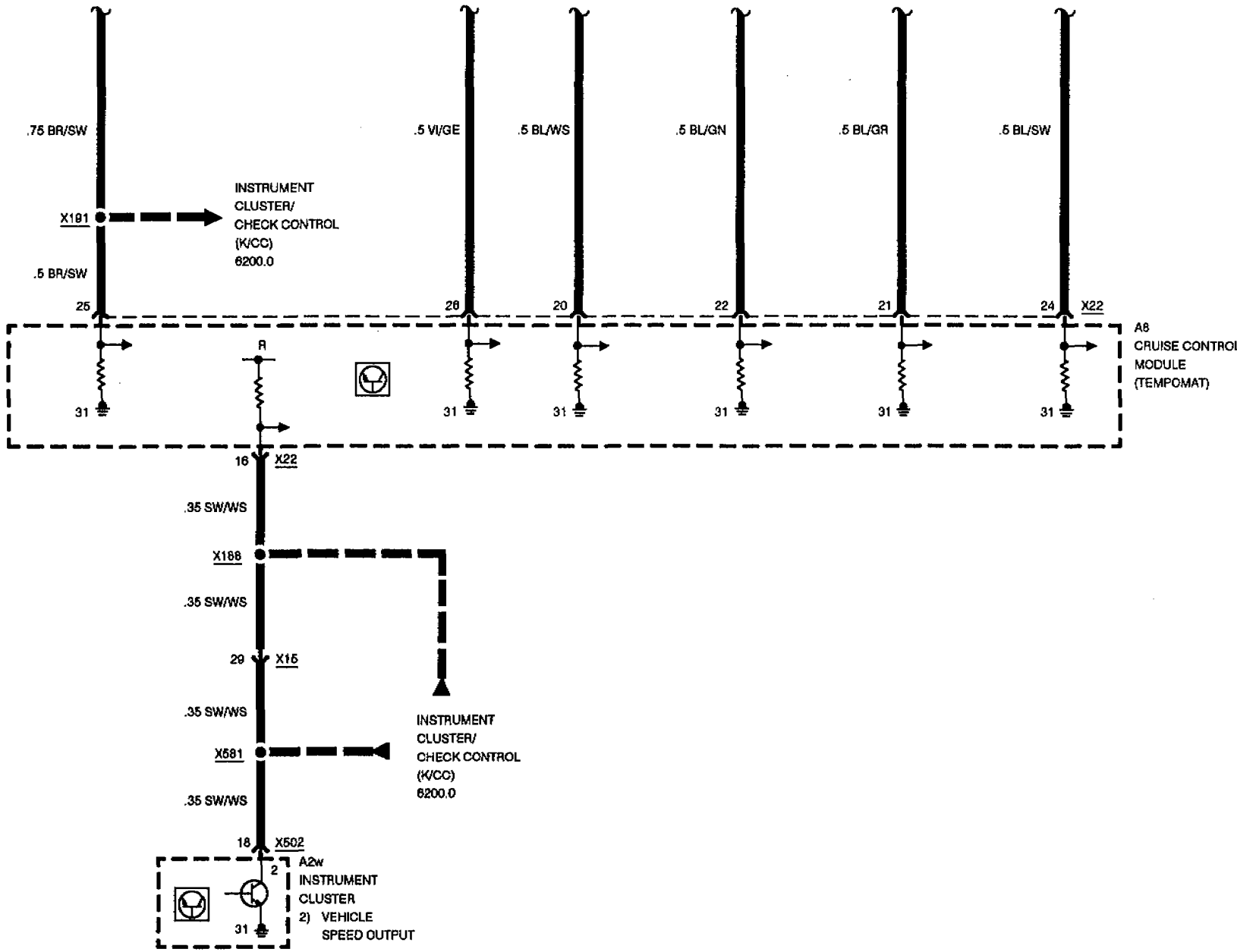
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CRUISE CONTROL (TEMPOMAT)

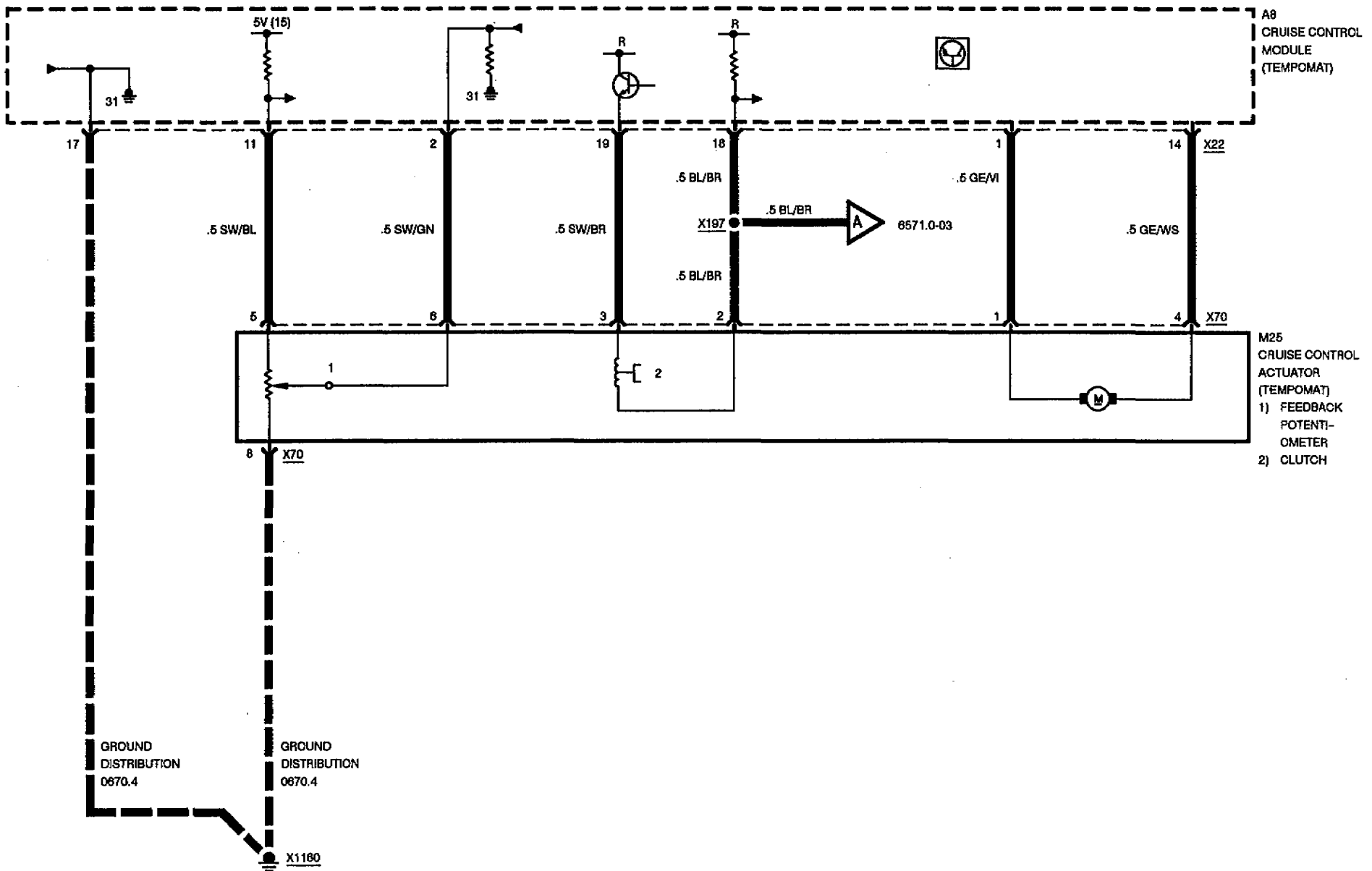


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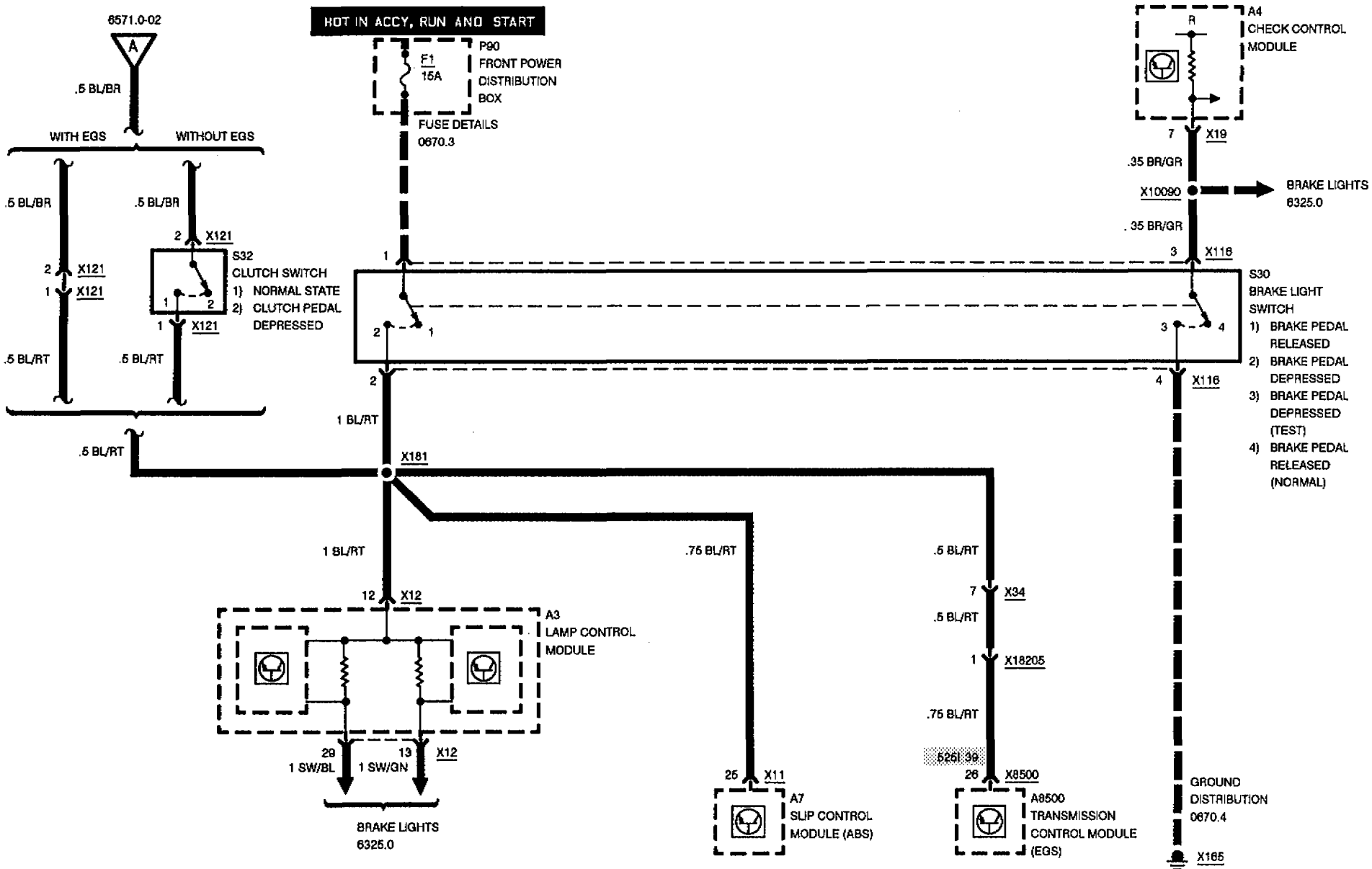
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CRUISE CONTROL (TEMPOMAT)



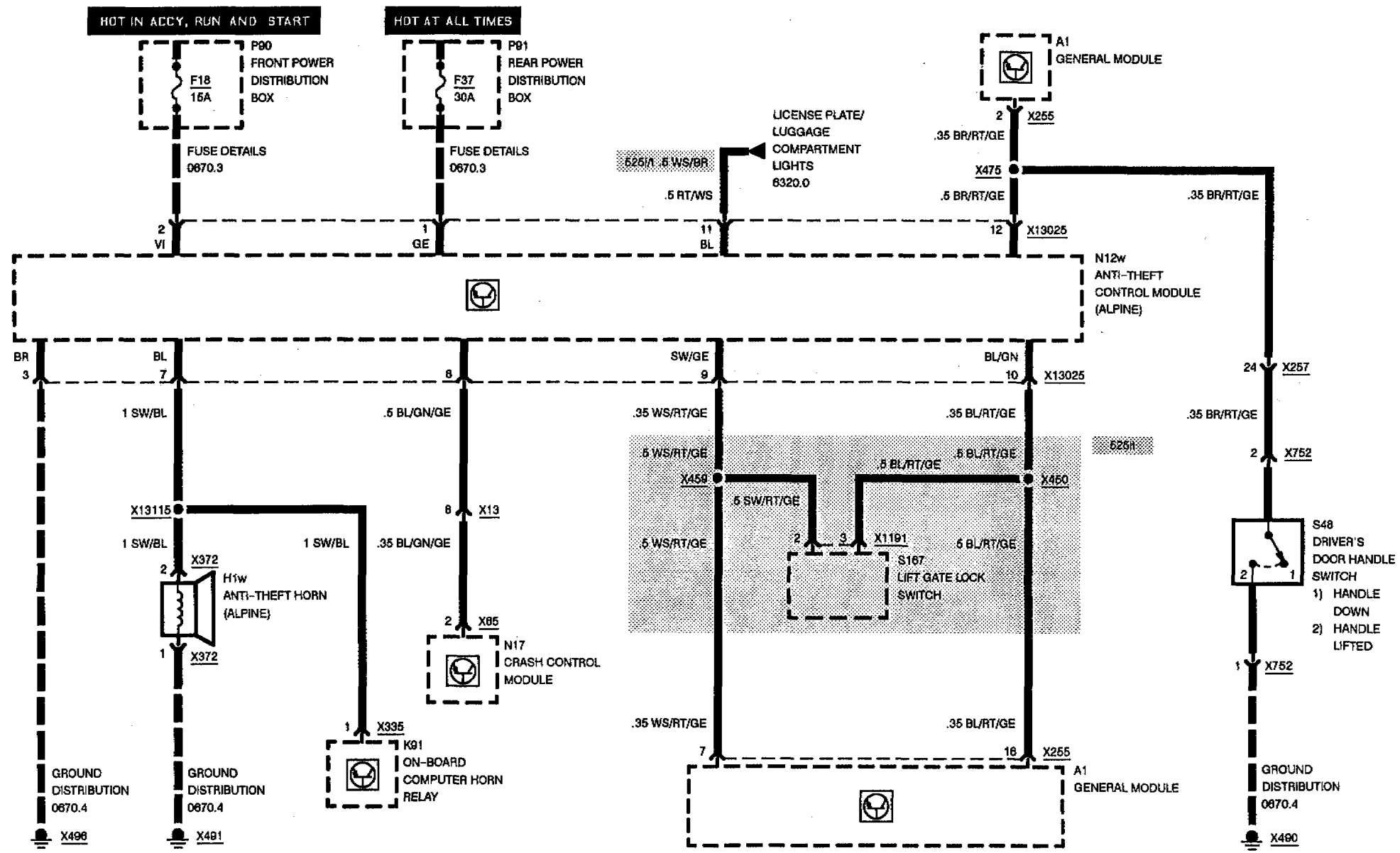
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CRUISE CONTROL (TEMPOMAT)



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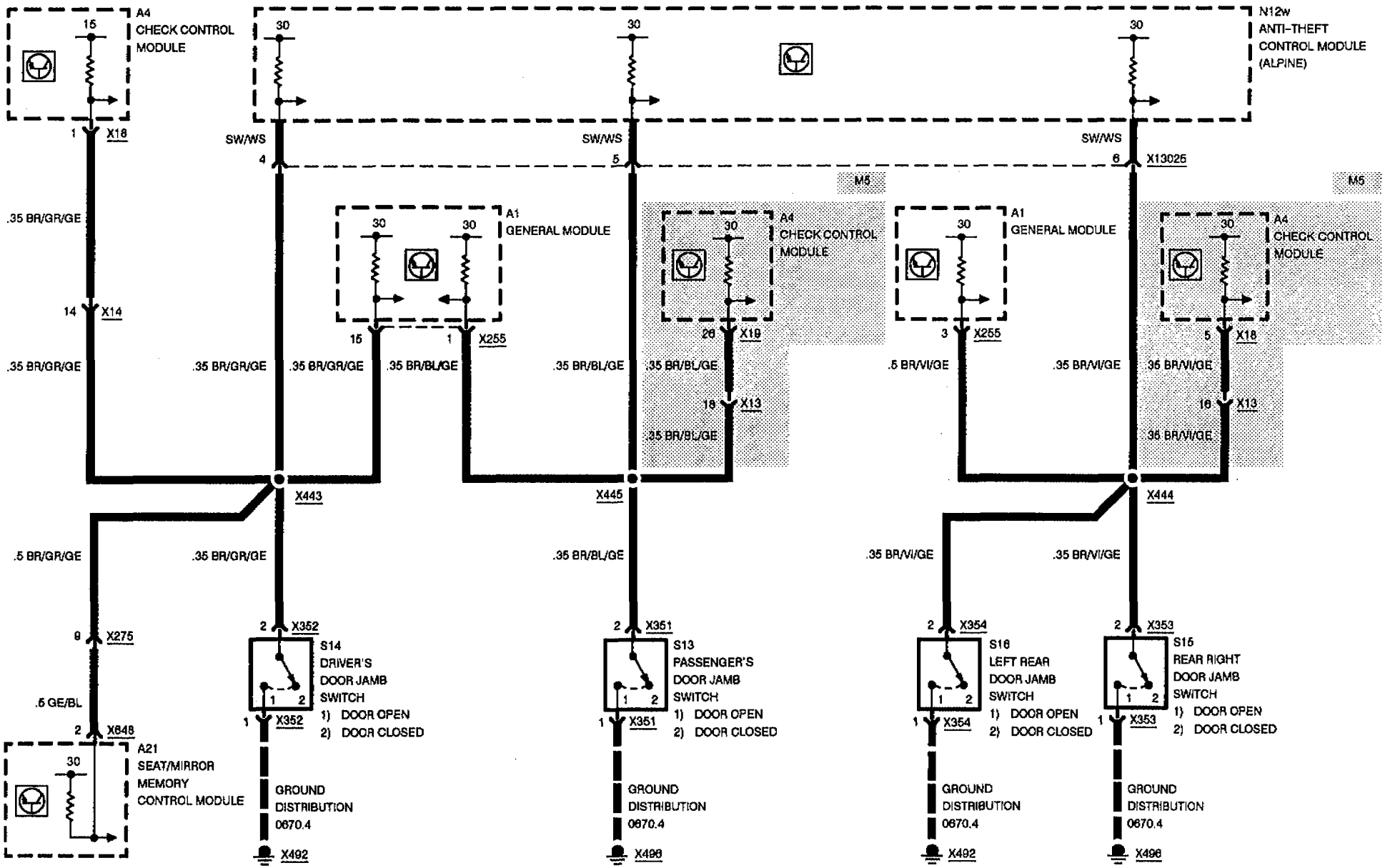
ANTI-THEFT SYSTEM (ALPINE)



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ANTI-THEFT SYSTEM (ALPINE)

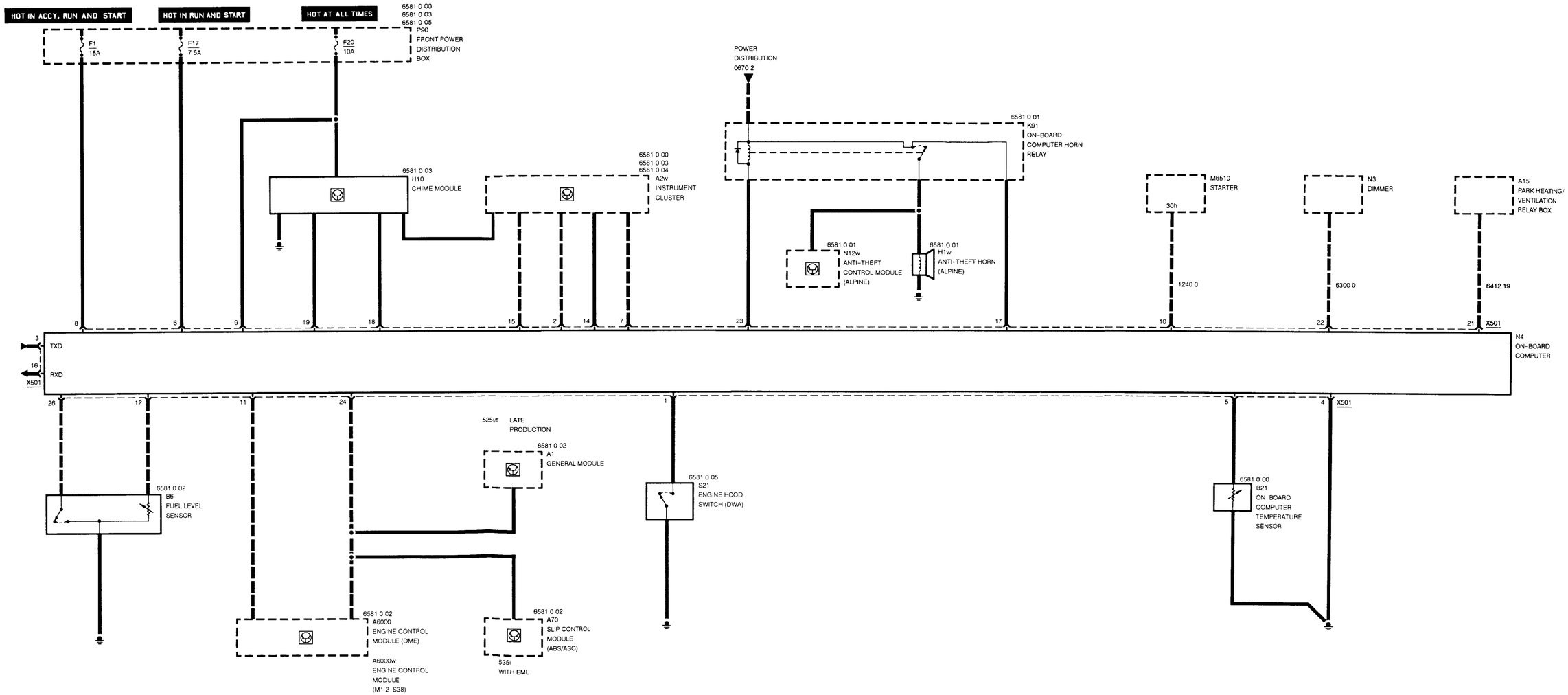
FRONT AND REAR DOOR JAMB SWITCHES



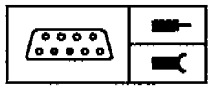
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Pin Assignments

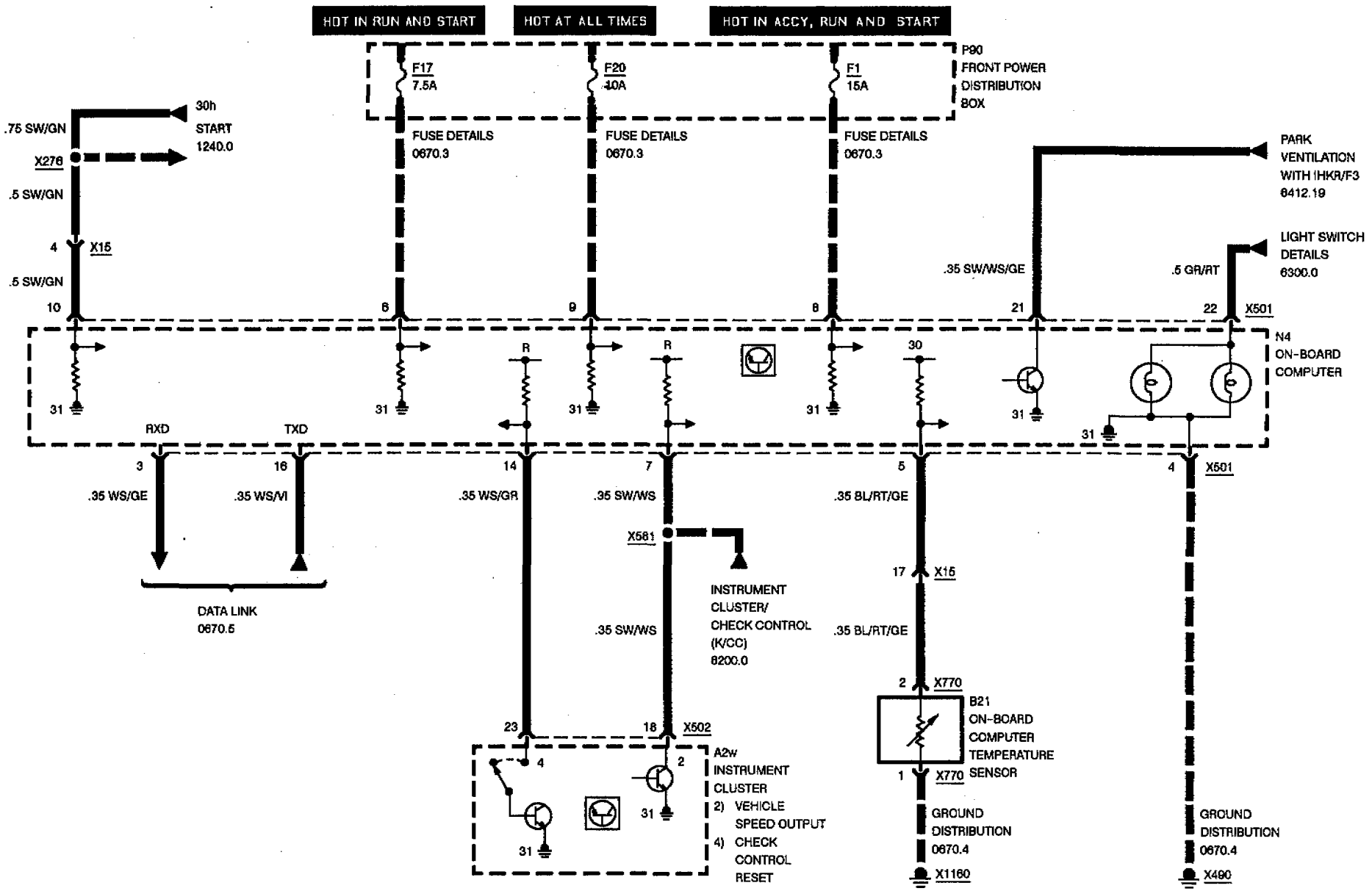
X501

Pin	Type	Description/Function	Connection
1	E	Hood tamper	Engine hood switch
2	A	DAC line	Instrument cluster
3	E	RxD diagnostic data link	Data link connector
4	M	Ground	Ground point
5	E	Outside temperature	Outside temperature sensor
6	E	Voltage supply, terminal 15	Front power distribution box
7	E	Vehicle speed signal	Instument cluster
8	E	Voltage supply, terminal R	Front power distribution box
9	E	Voltage supply, terminal 30	Front power distribution box
10	E	Voltage supply, terminal 50	Starter
11	E	Injection signal	Engine control module (DME)
12	E	Fuel gauge	Fuel tank sensor
13		Not used	
14	E	Check control reset button	Instrument cluster
15	E	LAC line	Instrument cluster
16	E/A	TxD diagnostic data link	Data link connector
17	E	Power input	On-board computer horn relay
18	A	Gong T2 control	Chime module
19	A	Gong T1 control	Chime module
20		Not used	
21	A	Independent ventilation control	Park heating/ventilation relay box
22	E	Instrument illumination, terminal 58g	Dimmer
23	A	On-board computer horn relay control	On-board computer horn relay
24	A	Drive-away protection signal	Engine control module (DME)
25	E	Remote control (telephone)	Phone interface box
26	E	Reserve tank contact	Fuel tank sensor

E = Input, A = Output, M = Ground

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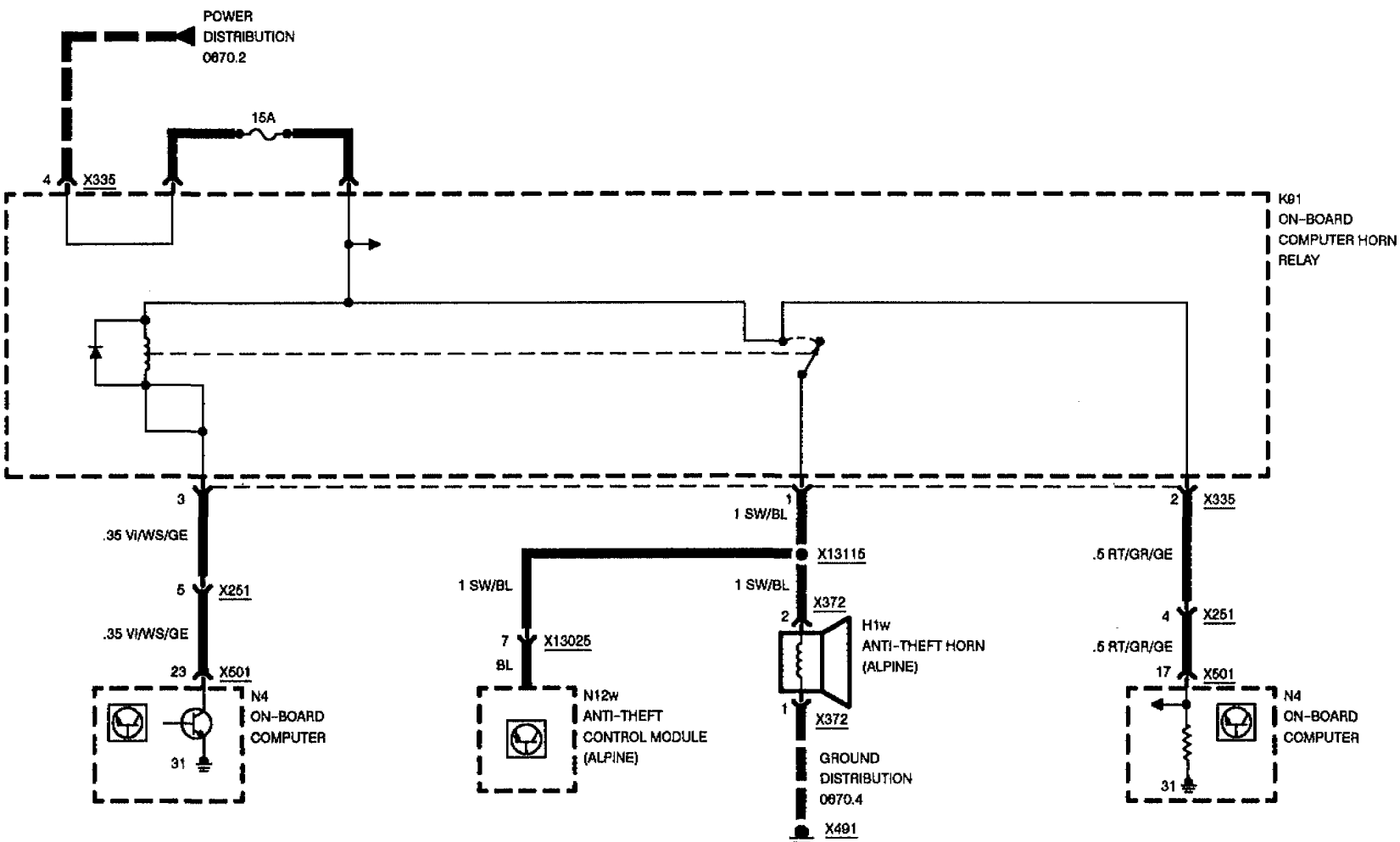
ON-BOARD COMPUTER (BCIV)



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ON-BOARD COMPUTER (BCIV)

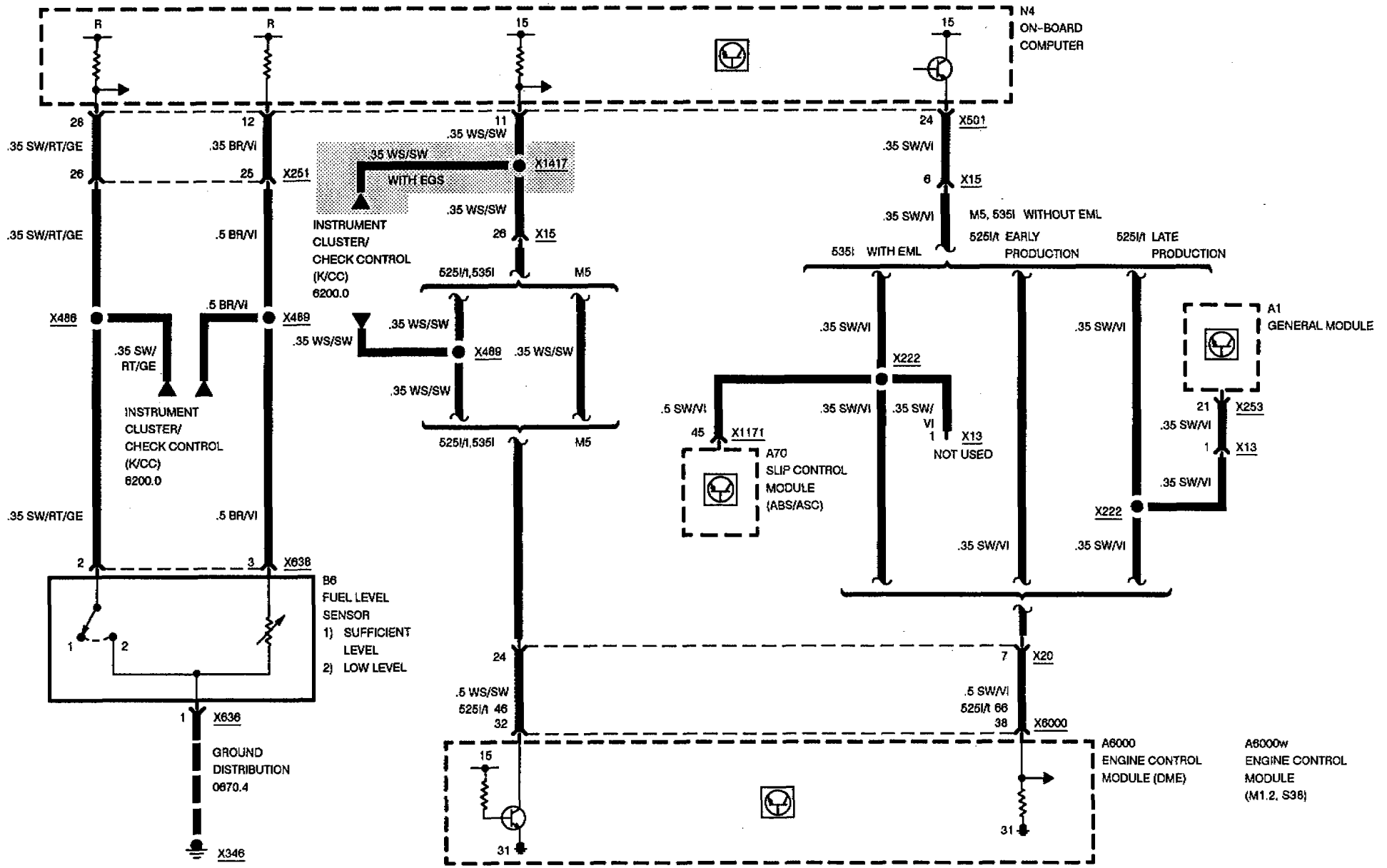
ANTI-THEFT HORN



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ON-BOARD COMPUTER (BCIV)

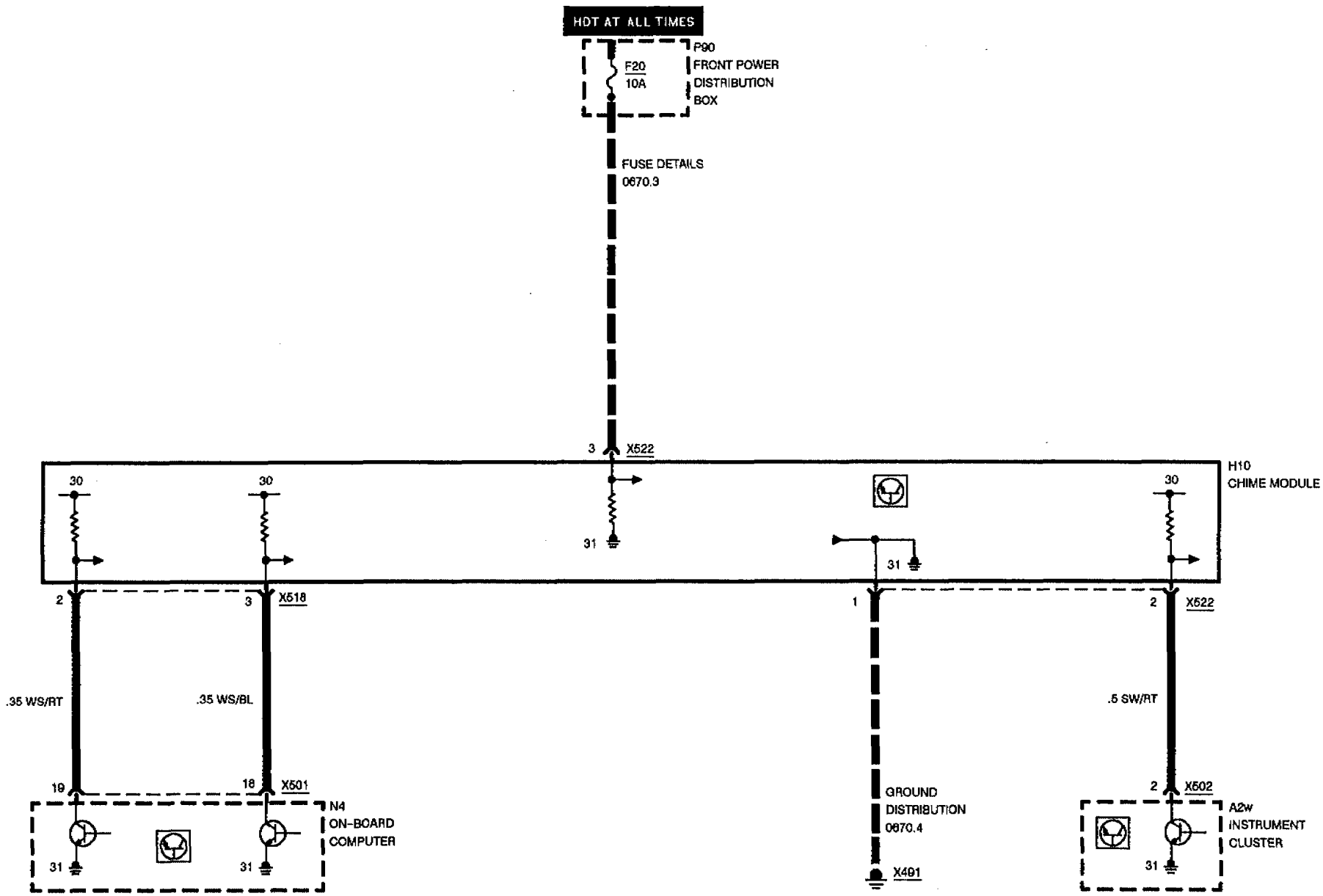
FUEL GAUGE



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ON-BOARD COMPUTER (BCIV)

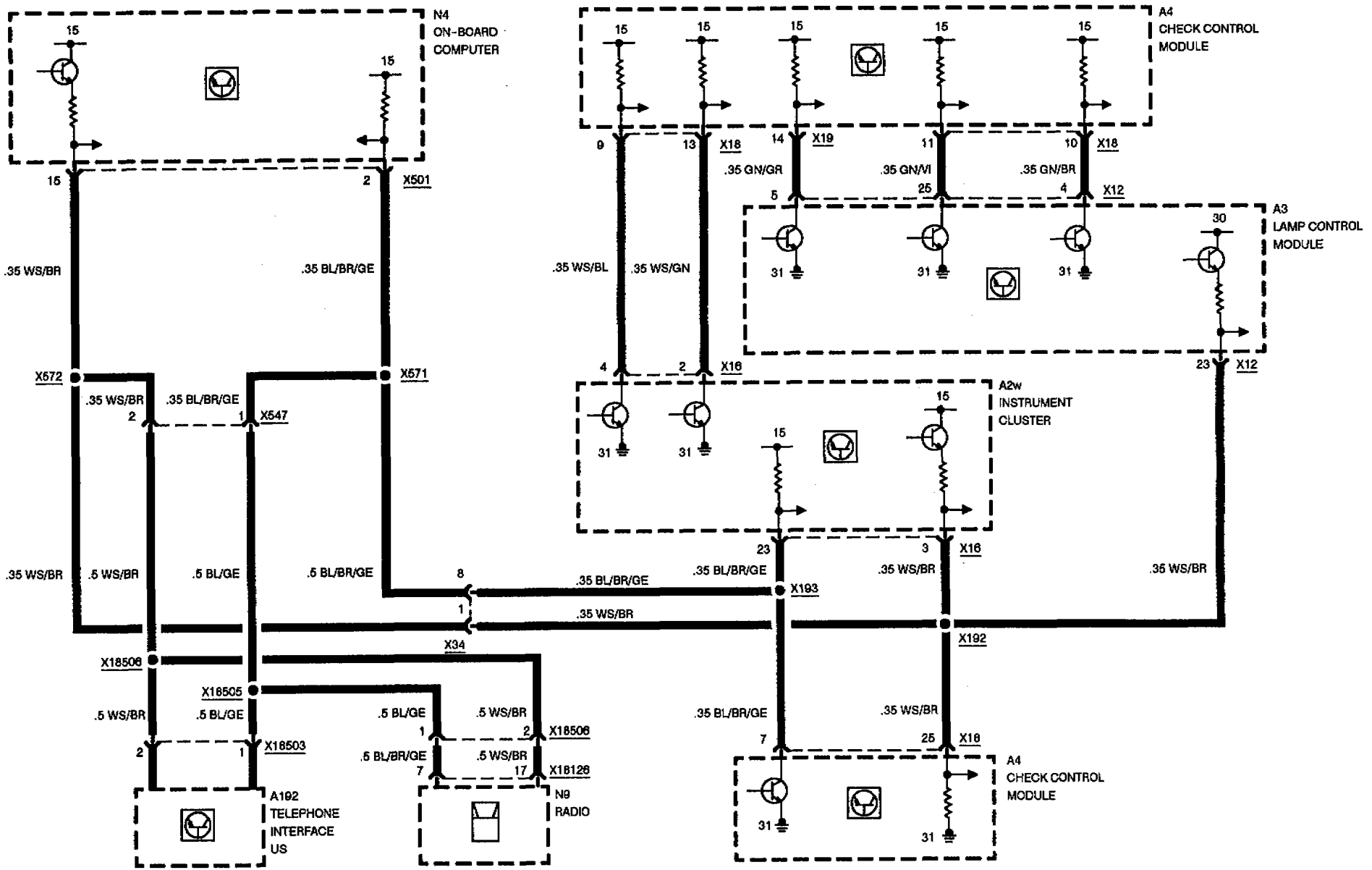
CHIME MODULE



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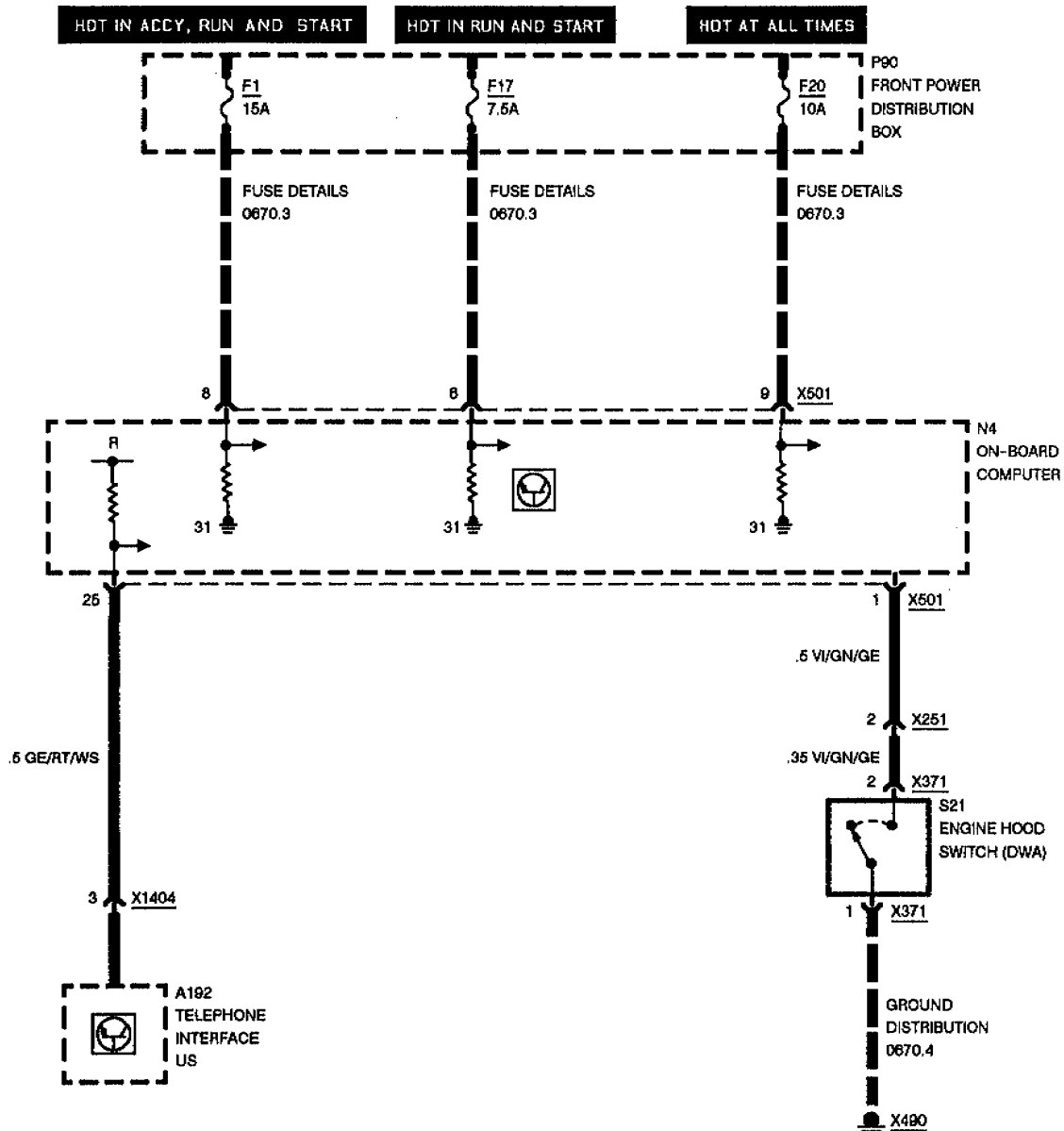
ON-BOARD COMPUTER (BCIV)

DATA LINK



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ON-BOARD COMPUTER (BCIV)



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COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
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A1	GENERAL MODULE	Below LH side of rear seat in Rear Power Distribution Box	00-3
A2w	INSTRUMENT CLUSTER	LH side of dash	
A3	LAMP CONTROL MODULE	Rear LH side of engine compartment in Front Power Distribution Box	00-2
A4	CHECK CONTROL MODULE	Rear LH side of engine compartment in Front Power Distribution Box	00-2
A5	RELAY MODULE	Below LH side of rear seat in Rear Power Distribution Box	00-3
A7	SLIP CONTROL MODULE (ABS)	Rear RH side of engine compartment in E-Box	00-1
A8	CRUISE CONTROL MODULE (TEMPOMAT)	Behind Left Front of dash	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	Below LH side of dash	19-3
A15	PARK HEATING/VENTILATION RELAY BOX	Under RH rear seat	
A17	SERVOTRONIC CONTROL MODULE	LH side of LH footwell behind LH footwell kickpanel	
A18	HIFI AMPLIFIER	In LH forward side of luggage compartment	33-1
A21	SEAT/MIRROR MEMORY CONTROL MODULE	Underside of LH front seat	26-1
A22z	ELECTROCHROMIC REAR VIEW MIRROR	Center of windshield header	
A36	REAR WIPER/WASHER INTERVAL CONTROL MODULE	RH side of luggage compartment	33-3
A70	SLIP CONTROL MODULE (ABS/ASC)	Rear RH side of engine compartment in E-Box	00-1
A87w	INTEGRATED CLIMATE REGULATION CONTROL MODULE (IHKR/F3)	Between front footwells	22-1

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COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
A99	DOUBLE PANEL POWER SUNROOF CONTROL MODULE	Below LH side of dash		32-1
A192	TELEPHONE INTERFACE US	Below front of console		
A552	A/C COMPRESSOR CONTROL MODULE	RH side of LH footwell behind LH footwell trim		17-1
A6000	ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment in E-Box		00-1
A6000w	ENGINE CONTROL MODULE (M1.2, S38)	Rear RH side of engine compartment in E-Box (M5)		00-1
A6004	THROTTLE CONTROL MODULE (EML)	Rear RH side of engine compartment in E-Box		
A6006	INTAKE AIR CONTROL MODULE	Rear RH side of engine compartment in E-Box		
A8500	TRANSMISSION CONTROL MODULE (EGS)	Rear RH side of engine compartment in E-Box		00-1
B1	RIGHT FRONT SPEED SENSOR - ABS	Behind RH front wheel		
B2	LEFT FRONT SPEED SENSOR - ABS	Behind LH front wheel		16-1
B3	RIGHT REAR SPEED SENSOR - ABS	Behind RH rear wheel		16-2
B4	LEFT REAR SPEED SENSOR - ABS	Behind LH rear wheel		
B6	FUEL LEVEL SENSOR	In RH side of luggage compartment		31-3
B10	VEHICLE SPEED SENSOR	Under rear of car		14-3
B11	LH HEAT EXCHANGER TEMPERATURE SENSOR	RH side of LH footwell		22-2
B12	RH HEAT EXCHANGER TEMPERATURE SENSOR	RH side of IHKR Plenum		22-1
B13	OUTSIDE TEMPERATURE SENSOR	Near LH headlight assembly		21-3
B14	EVAPORATOR TEMPERATURE SENSOR	Below LH side of dash LH side of IHKA Plenum		22-2

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COMPONENT LOCATION CHART

COMPONENT		PAGE - FIGURE 7100.0	8500.0
B15 ...	ELECTRO- HYDRAULIC CONVERTER (SERVOTRONIC) ..... Rear LH side of engine compartment		
B16 ...	LEFT FRONT BRAKE PAD SENSOR ..... Behind LH front wheel	16-1	
B17 ...	RIGHT REAR BRAKE PAD SENSOR ..... Behind RH rear wheel	16-2	
B18 ...	BRAKE FLUID LEVEL SWITCH ..... LH side of engine compartment top of brake fluid reservoir		
B21 ...	ON-BOARD COMPUTER TEMPERATURE SENSOR ..... Under LH front bumper	15-2	
B22 ...	WHEEL CAMBER CONTROL MODULE ..... Under RH rear of car RH side of differential	29-1	
B54 ...	DOUBLE PANEL POWER SUN ROOF SENSOR I ..... Behind front of roof trim panel		
B55 ...	DOUBLE PANEL POWER SUN ROOF SENSOR II ..... Behind front of roof trim panel	32-1	
B400 ..	MICROPHONE ..... Center of dash		
B900 ..	JUMPER PLUG ..... Rear LH side of engine compartment in Front Power Distribution Box	04-3	
B6006 .	INTAKE AIR RESONANCE CONTROL MODULE ..... Rear RH side of engine compartment in E-Box		
B6200 .	HEATED OXYGEN SENSOR ..... Under center of car on catalytic converter rear of engine	12-2	
B6201 .	CYLINDER IDENTIFICATION SENSOR ..... Front of engine RH side of engine near distributor (M5)	05-1	
B6202 .	CRANKSHAFT POSITION/RPM SENSOR .... Top front of engine near distributor (M5)	05-1	
B6203 .	CRANKSHAFT POSITION/RPM SENSOR .... Front of engine		
B6205 .	INTAKE AIR TEMPERATURE SENSOR ..... Front of engine	13-2	
B6208 .	CAMSHAFT ACTUATOR ..... Front of engine		
B6209 .	HALL EFFECT CAMSHAFT SENSOR ..... Front of engine	13-1	03-5
B6217 .	HOT FILM AIR MASS METER ..... Top front of engine		

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COMPONENT LOCATION CHART

COMPONENT

			PAGE – FIGURE 7100.0	8500.0
B6230	OIL LEVEL SENSOR	Under front of car	16–3	
B6231	OIL PRESSURE SWITCH	Rear of engine (535i)	09–2	
B6231	OIL PRESSURE SWITCH	Front of engine on coolant inlet	13–1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine LH side of engine	08–1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine on coolant inlet	13–1	
B6233	VOLUME AIR FLOW SENSOR	Front of engine ahead of oil fill cap		
B6234	ENGINE COOLANT TEMP. SENSOR (EML)	Front of engine		
B6235	TEMPERATURE SWITCH	Top rear of engine on coolant inlet (M5)	12–1	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine	08–1	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine	13–1	
B6238	OIL TEMPERATURE SENSOR	Front of engine LH side of engine		
B6241w	CYL. 1–3 KNOCK SENSOR	Below intake manifold		
B6242w	CYL. 4–6 KNOCK SENSOR	Below intake manifold		
B9508	PRESSURE SWITCH	Front RH side of engine compartment (air filter removed)	14–2	
C101	CONTACT RING	Top of steering column	20–1	
C900	SUPPRESSION FILTER	In upper RH C-pillar	30–2	
E9	REAR DEFOGGER I	In rear window		
E10	REAR DEFOGGER/ANTENNA	In rear window		
E11	LEFT HIGH BEAM LIGHT	Front of car left		

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
E12	RIGHT HIGH BEAM LIGHT	Front of car right		
E13	LEFT LOW BEAM LIGHT	Front of car left		
E14	RIGHT LOW BEAM LIGHT	Front of car right		
E15	LEFT PARK LIGHT	Front of car left		
E16	LEFT REAR LIGHT ASSEMBLY	Rear of car left		
E17	RIGHT REAR LIGHT ASSEMBLY	Rear of car right		
E19	RIGHT PARK LIGHT	Front of car right		
E20	UNDERHOOD LIGHT	On underside of engine hood		
E21	LEFT FRONT MARKER LIGHT	Near LH headlight assembly		
E22	RIGHT FRONT MARKER LIGHT	Near RH headlight assembly		
E26	LEFT FOG LIGHT	Front of car left		
E27	RIGHT FOG LIGHT	Front of car right		
E28	FRONT CIGAR LIGHTER	Center console		
E29	FRONT CIGAR LIGHTER LIGHT	Center of dash below front of console		
E32	TRUNK COMPARTMENT LIGHT	Underside of trunk lid		
E33	TRUNK LID LIGHT	Underside of trunk lid		
E34	FRONT DOME LIGHT/MAP READING ASSEMBLY	Center of windshield header		
E35	DRIVER'S MAKEUP MIRROR LIGHT	Center of windshield header		
E36	PASSENGER'S MAKEUP MIRROR LIGHT	Center of windshield header		
E39	LEFT REAR INTERIOR LIGHT	In upper LH C-pillar		31-1
E40	RIGHT REAR INTERIOR LIGHT	In upper RH C-pillar		

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COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
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E41 ...	DASH LIGHT	Center of dash
E42 ...	GLOVE BOX LIGHT	RH side of glove box above
E43 ...	LEFT LICENSE PLATE LIGHT	Underside of trunk lid
E44 ...	RIGHT LICENSE PLATE LIGHT	Underside of trunk lid
E46 ...	LEFT TRUNK LIGHT ASSEMBLY	Underside of trunk lid
E47 ...	RIGHT TRUNK LIGHT ASSEMBLY	Underside of trunk lid
E48 ...	DOOR LOCK HEATER	LH front door in door at key lock assembly
E51 ...	LEFT WASHER JET HEATER	On underside of engine hood ... 09-3
E52 ...	RIGHT WASHER JET HEATER	On underside of engine hood ... 09-3
E56 ...	DRIVER'S SEATBACK HEATER	In lower LH front seatback
E57 ...	DRIVER'S SEAT HEATER	Underside of LH front seat
E58 ...	PASSENGER'S SEAT HEATER	Underside of RH front seat
E59 ...	PASSENGER'S SEATBACK HEATER	In lower RH front seatback
E65 ...	LEFT REAR SEATBACK HEATER	In lower LH rear seatback
E66 ...	LEFT REAR SEAT HEATER	Underside of LH rear seat
E67 ...	RIGHT REAR SEAT HEATER	Underside of RH rear seat
E68 ...	RIGHT REAR SEATBACK HEATER	In lower RH rear seatback
E70 ...	LEFT REAR SIDE MARKER LIGHT	Rear of car
E71 ...	RIGHT REAR SIDE MARKER LIGHT	Rear of car
E82 ...	TRANSMISSION POSITION INDICATOR LIGHT	LH side of gearshift selector

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COMPONENT LOCATION CHART

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COMPONENT			PAGE – FIGURE 7100.0 8500.0
E9000	RIGHT FRONT LIGHT ASSEMBLY	Front of car	
E9001	LEFT FRONT LIGHT ASSEMBLY	Front of car	
E9500	TRANSMISSION RANGE SELECTOR LIGHT	Center console near gearshift lever	
F98	FUSIBLE LINK (50A)	In RH side of luggage compartment	
G5	DRIVER'S AIR BAG GENERATOR	Top of steering column	20-1
G6509	GENERATOR	In the engine compartment	
H1w	ANTI-THEFT HORN (ALPINE)	Rear RH side of engine compartment	21-3
H2	LEFT HORN	Front of car behind front grille	15-1
H3	RIGHT HORN	Front of car behind front grille	15-1
H4	RIGHT FRONT TURN LIGHT	Front of car	
H5	RIGHT REAR TURN LIGHT	RH side of body rear end	
H6	LEFT REAR TURN LIGHT	LH side of body rear end	
H7	LEFT FRONT TURN LIGHT	Front of car	
H8	RIGHT FRONT AUXILIARY TURN LIGHT	Front of car	
H9	LEFT FRONT AUXILIARY TURN LIGHT	Front of car	
H10	CHIME MODULE	Rear RH side of engine compartment	17-3
H24	LEFT BRAKE LIGHT	LH side of body rear end	
H25	LEFT TAIL LIGHT	LH side of body rear end	
H27	LEFT BACK UP LIGHT	LH side of body rear end	
H28	RIGHT BACK UP LIGHT	RH side of body rear end	

COMPONENT LOCATION CHART

COMPONENT

PAGE – FIGURE
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H30	RIGHT TAIL LIGHT	RH side of body rear end
H31	RIGHT BRAKE LIGHT	RH side of body rear end
H34	HIGH LEVEL STOP LIGHT	At back of rear window shelf
H38	TELEPHONE TRANSCEIVER	In LH forward side of luggage compartment
H41	LEFT FRONT SPEAKER	In upper LH front door
H50	RIGHT FRONT HIGH RANGE SPEAKER	In upper RH front door
H51	RIGHT FRONT LOW RANGE SPEAKER	Behind RH footwell speaker grille
H52	RIGHT REAR LOW RANGE SPEAKER	Under rear window shelf
H53	RIGHT REAR HIGH RANGE SPEAKER	Under rear window shelf
H54	RIGHT FRONT MIDRANGE SPEAKER	In upper RH front door
H55	LEFT FRONT MIDRANGE SPEAKER	In upper LH front door
H56	LEFT REAR HIGH RANGE SPEAKER	Under rear window shelf
H57	LEFT REAR LOW RANGE SPEAKER	Under rear window shelf
H58	LEFT FRONT LOW RANGE SPEAKER	Behind LH footwell speaker grille
H59	LEFT FRONT HIGH RANGE SPEAKER	In upper LH front door
H90	LEFT TRUNK LIGHT	In LH forward side of luggage compartment
H91	RIGHT TRUNK LIGHT	Underside of trunk lid
K1	STARTER RELAY	Rear LH side of engine compartment in Front Power Distribution Box 04-3
K2	HORN RELAY	Rear LH side of engine compartment in Front Power Distribution Box 04-3
K3	UNLOADER RELAY, TERMINAL R	Rear LH side of engine compartment in Front Power Distribution Box 04-3

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COMPONENT LOCATION CHART

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COMPONENT			PAGE – FIGURE 7100.0 8500.0
K4	BLOWER RELAY	Rear LH side of engine compartment in Front Power Distribution Box	04–3
K5	WASHER PUMP RELAY	Rear LH side of engine compartment in Front Power Distribution Box	04–2
K8	AUXILIARY WATER PUMP RELAY	Rear LH side of engine compartment in Front Power Distribution Box	04–3
K9	UNLOADER RELAY, TERMINAL 15	Rear LH side of engine compartment in Front Power Distribution Box	04–2
K10	ABS RELAY	Rear LH side of engine compartment in Front Power Distribution Box	
K11	WIPER RELAY	Below LH side of rear seat in Rear Power Distribution Box	29–3
K13	REAR DEFOGGER RELAY	Below LH side of rear seat in Rear Power Distribution Box	29–3
K15	ELECTRIC POWER PROTECTION RELAY	Below LH side of rear seat in Rear Power Distribution Box	29–3
K16	HAZARD FLASHER RELAY	Rear LH side of engine compartment in Front Power Distribution Box	05–2
K19	COMPRESSOR CONTROL RELAY	Rear LH side of engine compartment in Front Power Distribution Box	04–2
K21	NORMAL SPEED RELAY	In LH auxiliary relay box, engine compartment	06–2
K22	HIGH SPEED RELAY	Rear LH side of engine compartment in LH auxiliary relay box, engine compartment	06–2
K25	RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY	Below LH side of dash near hood release lever	
K26	LEFT PARK LIGHT RELAY	Below LH side of dash near hood release lever	
K61	UNLOADER RELAY, TERMINAL 61	Rear LH side of engine compartment in Front Power Distribution Box	05–2
K64	LIFT GATE OPEN WARNING RELAY	Rear of luggage compartment	
K70	CENTRAL LOCKING TRUNK LID MOTOR RELAY (ZV)	Rear Power Distribution Box in LH side of luggage compartment	33–3

COMPONENT LOCATION CHART

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COMPONENT			PAGE - FIGURE 7100.0 8500.0
K86	WIDE OPEN THROTTLE CUT-OFF RELAY	Behind LH footwell trim	17-1
K87	ELECTRIC STEERING COLUMN ADJUSTMENT RELAY	Below LH side of dash	
K89	REAR WINDOW WASHER RELAY	RH side of luggage compartment behind side panel	
K90	WINDOW MOTOR RELAY	RH side of luggage compartment behind side panel	33-3
K91	ON-BOARD COMPUTER HORN RELAY	RH side of luggage compartment behind side panel	30-1
K92	REAR WINDOW WIPER RELAY II	RH side of luggage compartment behind side panel	
K6300	ENGINE CONTROL MODULE RELAY	Rear RH side of engine compartment in E-Box	11-2
K6301	CYL. 1-6 FUEL PUMP RELAY	Rear RH side of engine compartment in E-Box	11-2
K6302	FUEL PUMP RELAY	Rear RH side of engine compartment in E-Box (M5)	
K6303	OXYGEN SENSOR RELAY	Rear RH side of engine compartment in E-Box	11-2
K6304	AIR PUMP RELAY	Rear RH side of engine compartment in E-Box	
M2	FUEL PUMP	In RH side of luggage compartment	31-3
M3	WIPER MOTOR	Front of car	04-1
M4	WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	14-1
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	Front RH side of engine compartment near windshield washer reservoir	
M9	AUXILIARY FAN MOTOR	Front of car behind front grille	15-1
M12	DRIVER'S DOOR LOCK MOTOR	In upper LH front door	24-1
M13	PASSENGER'S DOOR LOCK MOTOR	In upper RH front door	24-3
M14	RIGHT REAR DOOR LOCK MOTOR	In upper RH rear door	25-3

COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
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M15 ...	LEFT REAR DOOR LOCK MOTOR	In upper LH rear door	25-2
M16 ...	GAS FILLER LOCK MOTOR	In RH side of luggage compartment	23-3
M17 ...	TRUNK LOCK MOTOR	Underside of trunk lid	32-2
M20 ...	LEFT REAR WINDOW MOTOR	In lower LH rear door	25-2
M21 ...	DRIVER'S WINDOW MOTOR	In lower LH front door	24-2
M22 ...	RIGHT REAR WINDOW MOTOR	In lower RH rear door	25-3
M23 ...	PASSENGER'S WINDOW MOTOR	In lower RH front door	25-1
M24 ...	SUNROOF MOTOR	Center of windshield header near rear view mirror	21-2
M25 ...	CRUISE CONTROL ACTUATOR (TEMPOMAT)	Front LH side of engine compartment ahead of LH side shock tower	06-1
M30 ...	BLOWER MOTOR	Between front footwells	21-3
M34 ...	DASH VENT MIXING FLAP MOTOR	Behind center of dashboard	22-1
M36 ...	FRESH AIR FLAP MOTOR	Below LH side of dash LH side of IHKA Plenum	22-2
M37a ..	AUXILIARY WATER PUMP	Rear LH side of engine compartment on engine bulkhead	05-3
M40 ...	RECIRCULATION FLAP MOTOR	Below LH side of dash LH side of IHKA Plenum	22-2
M50 ...	DRIVER'S SEAT CUSHION TILT MOTOR	Under LH front seat	27-2
M51 ...	DRIVER'S SEAT MOVEMENT MOTOR	Under LH front seat	27-2
M52 ...	DRIVER'S SEAT HEIGHT MOTOR	Under LH front seat	27-2
M53 ...	DRIVER'S SEATBACK RECLINER MOTOR	Under LH front seat	27-2
M54 ...	DRIVER'S HEADREST MOTOR	In upper LH front seatback	29-2
M57 ...	PASSENGER'S SEAT HEADREST MOTOR	In upper RH front seatback	

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COMPONENT LOCATION CHART

COMPONENT		PAGE - FIGURE 7100.0 8500.0
M58 . . . PASSENGER'S SEATBACK RECLINER MOTOR	Under RH front seat	
M59 . . . PASSENGER'S SEAT HEIGHT MOTOR	Under RH front seat	
M60 . . . PASSENGER'S SEAT MOVEMENT MOTOR	Under RH front seat	
M61 . . . PASSENGER'S SEAT CUSHION TILT MOTOR	Under RH front seat	
M65 . . . DRIVER'S THIGH SUPPORT MOTOR	Under LH front seat	27-2
M66 . . . PASSENGER'S THIGH SUPPORT MOTOR	Under RH front seat	
M82 . . . STEERING COLUMN LENGTH ADJUST MOTOR	Below LH side of dash bottom of steering column	
M87 . . . MOTOR DRIVE I DOUBLE PANEL POWER SUNROOF	In roof panel	
M88 . . . MOTOR DRIVE II DOUBLE PANEL POWER SUNROOF	In roof panel	32-1
M94 . . . REAR WINDOW WIPER MOTOR	Rear of luggage compartment on lift gate behind trim panel	
M95 . . . REAR WINDOW WASHER PUMP	RH side of luggage compartment behind side panel	33-2
M96 . . . REAR WINDOW MOTOR	Rear of luggage compartment on lift gate behind trim panel	32-3
M97 . . . LIFT GATE MOTOR	Rear of luggage compartment on lift gate behind trim panel	32-3
M6133 . AIR PUMP	Top front of engine near distributor (M5)	08-2
M6350 . ELECTRONIC THROTTLE ACTUATOR (EML)	Center of engine compartment	
M6506 . E-BOX FAN	Rear RH side of engine compartment in E-Box	
M6510 . STARTER	LH side of engine compartment below intake manifold	
N3 . . . . DIMMER	LH side of dash	
N4 . . . . ON-BOARD COMPUTER	Center of dash	

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
N6	HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)	LH side of engine compartment in LH auxiliary relay box, engine compartment	06-2
N8	ANTENNA AMPLIFIER AM/FM	In upper LH C-pillar	31-1
N9	RADIO	Center of dash	
N10	MULTI-FUNCTION CLOCK	Center of dash	
N12w	ANTI-THEFT CONTROL MODULE (ALPINE)	Below RH side of dash	
N17	CRASH CONTROL MODULE	Rear LH side of engine compartment in Front Power Distribution Box	05-2
N22	CD CHANGER	In luggage compartment	
N404	DIVERSITY	In upper LH C-pillar	31-1
N444	FM AMPLIFIER HLO	In upper LH C-pillar	
P90	FRONT POWER DISTRIBUTION BOX	Rear LH side of engine compartment	01-1
P91	REAR POWER DISTRIBUTION BOX	Below LH side of rear seat	
P93	E-BOX	Rear RH side of engine compartment	
R1	MIXING ACTUATOR	RH side of LH footwell	
R5	HEADREST POTENTIOMETER	In lower LH front seatback	29-2
R6	SEAT HEIGHT POTENTIOMETER	In lower LH front seatback	26-3
R7	SEATBACK POTENTIOMETER	In lower LH front seatback	26-3
R8	SEAT CUSHION REAR HEIGHT POTENTIOMETER	In lower LH front seatback	26-2
R9	SEAT CUSHION MOVEMENT POTENTIOMETER	In lower LH front seatback	26-2
R10	PEDAL POSITION SENSOR	Behind gas pedal	

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
R11	BLOWER RESISTORS	LH side of RH footwell	22-2
R15	THIGH SUPPORT POTENTIOMETER	In lower LH front seatback	
R6252	THROTTLE POSITION SENSOR	Front of engine	
S2	IGNITION SWITCH	Top of steering column behind steering wheel	20-3
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	Front of gearshift selector	23-1
S4	HORN SWITCH	Top of steering column	
S5	WIPER/WASHER SWITCH	Top of steering column	
S6	ASC SWITCH	Center of console	
S7	COMBINATION SWITCH	Top of steering column	
S8	LIGHT SWITCH	LH side of dash	
S9	LIGHT SWITCH	LH side of dash	
S10	FOG LIGHT SWITCH	LH side of dash	
S12	MEMORY MIRRORS CONTROL SWITCH	In upper LH front door	
S13	PASSENGER'S DOOR JAMB SWITCH	In upper RH B-pillar	30-3
S14	DRIVER'S DOOR JAMB SWITCH	In lower LH B-pillar	30-3
S15	REAR RIGHT DOOR JAMB SWITCH	In lower RH C-pillar	30-3
S16	LEFT REAR DOOR JAMB SWITCH	In lower LH C-pillar	30-3
S17	MIRROR CONTROL SWITCH	In upper LH front door	
S18	HAZARD SWITCH	Center console below	
S19	UNDERHOOD LIGHT SWITCH	Rear LH side of engine compartment	

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
S21w	ENGINE HOOD SWITCH	Rear RH side of engine compartment	05-2	
S27	INERTIA SWITCH	Below LH side of rear seat	30-1	
S28	CRUISE CONTROL SWITCH	Top of steering column behind steering wheel		
S30	BRAKE LIGHT SWITCH	LH side of dash on brake pedal support bracket	22-3	
S31	PARK BRAKE SWITCH	Below center of console		
S32	CLUTCH SWITCH	LH side of dash on clutch pedal support bracket	22-3	
S36	TEMPERATURE SWITCH	RH top of radiator	12-3	
S37	GLOVE BOX LIGHT SWITCH	LH side of glove box		
S38	SUNROOF SWITCH	Center of windshield header near rear view mirror	21-2	
S39	SUNROOF POSITION SWITCH	Center of windshield header near rear view mirror	21-2	
S40	FRONT CONSOLE WINDOW SWITCH ASSEMBLY	Center console		
S41	LEFT REAR WINDOW SWITCH	In upper LH rear door		
S42	RIGHT REAR WINDOW SWITCH	In upper RH rear door		
S43	DRIVER'S WINDOW LIMIT SWITCH	In upper LH front door		
S44	PASSENGER'S WINDOW LIMIT SWITCH	In upper RH front door		
S45	LEFT REAR WINDOW LIMIT SWITCH	In upper LH rear door	25-2	
S46	RIGHT REAR WINDOW LIMIT SWITCH	In upper RH rear door	25-3	
S47	DRIVER'S DOOR LOCK SWITCH	LH front door behind door panel		
S48	DRIVER'S DOOR HANDLE SWITCH	LH front door behind door panel		
S49	PASSENGER'S DOOR LOCK SWITCH	RH front door		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
S51	DRIVER'S SEAT, SEAT CONTROL SWITCH	In rear of console		
S52	DRIVER'S SEAT LUMBAR SWITCH	In rear of console		
S53	DRIVER'S SEAT, SEAT HEATER SWITCH	In rear of console		
S54	PASSENGER'S SEAT, SEAT HEATER SWITCH	In rear of console		
S55	PASSENGER'S SEAT LUMBAR SUPPORT SWITCH	In rear of console		
S56	PASSENGER'S SEAT, SEAT CONTROL SWITCH	In rear of console		
S57	MEMORY SEAT MIRRORS SWITCH	In rear of console		
S58	DRIVER'S SEAT BELT SWITCH	In LH front seat belt buckle		
S61	TRUNK LID SWITCH	Underside of trunk lid left		
S63	ENGINE COOLANT LEVEL SWITCH	Top center of engine ahead of oil fill cap (with EML)		10-2
S63	ENGINE COOLANT LEVEL SWITCH	Top center of engine ahead of oil fill cap		15-3
S64	WASHER FLUID LEVEL SWITCH	Front RH side of engine compartment on washer fluid reservoir		14-1
S71	LEFT FRONT IMPACT SENSOR	LH side of engine compartment ahead of LH side shock tower		06-1
S72	RIGHT FRONT IMPACT SENSOR	RH side of engine compartment ahead of RH side shock tower		10-3
S75	BLOWER SWITCH	Center of dash middle of heater control panel		
S77	DRIVER'S MAKEUP MIRROR SWITCH	Above LH sun visor		
S78	PASSENGER'S MAKEUP MIRROR SWITCH	Under roof center panel		
S92	BACK UP LIGHT SWITCH (MANUAL TRANSMISSION)	Below center console		
S93	DRIVER'S THIGH SUPPORT SWITCH	LH front seat left		

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COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
S94	PASSENGER'S THIGH SUPPORT SWITCH	RH front seat		
S119z	STEERING COLUMN POSITION SWITCH	Below LH side of dash		
S134w	IHKR/F3 CONTROL PANEL	Center of dash		
S135w	IHKR/F3 SWITCHING UNIT	Center of dash		
S147	REAR WINDOW OPENING SWITCH	Rear of luggage compartment on lift gate behind trim panel		
S167	LIFT GATE LOCK SWITCH	Rear of luggage compartment on lift gate behind trim panel		
S170	REAR WINDOW LIMIT SWITCH	Rear of luggage compartment on lift gate behind trim panel		
S171	LIFT GATE LIMIT SWITCH	Rear of luggage compartment on lift gate behind trim panel		
S172	LIFT GATE SWITCH	Right of lid lock assembly		
S176	REAR WIPER/WASHER FLUID LEVEL SWITCH	Rear of luggage compartment		33-2
S198	JET HEATER THERMOSWITCH	Front LH side of engine compartment		
S8503	PROGRAM SWITCH	Below center console		
S8507	KICK-DOWN SWITCH	RH side of LH footwell		
T6151	CYL. 1 IGNITION COIL	RH side of engine		13-3
T6152	CYL. 2 IGNITION COIL	RH side of engine		13-3
T6153	CYL. 3 IGNITION COIL	RH side of engine		13-3
T6154	CYL. 4 IGNITION COIL	RH side of engine		13-3
T6155	CYL. 5 IGNITION COIL	RH side of engine		13-3
T6156	CYL. 6 IGNITION COIL	RH side of engine		13-3
U4	TELEPHONE HANDSET	Below front of console		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
V4	DAYTIME RUNNING LIGHTS CODING DIODE	Behind LH side of dash center of windshield header		
V6	UNCOUPLING DIODE	RH side of dash behind glove box		
V9501	UNCOUPLING DIODE (KL61)	Rear LH side of engine compartment		
X0	B+ JUNCTION POINT	Rear LH side of engine compartment	01-1	
X1	B+ JUNCTION POINT	Rear LH side of engine compartment	01-3	
X2	BATTERY B+ START POINT	Rear LH side of engine compartment	01-1	
X3	B+ JUNCTION POINT	Rear LH side of engine compartment	01-1	
X11	CONNECTOR (35-PINS, NATURAL)	Rear RH side of engine compartment in E-Box		00-3
X12	CONNECTOR (35-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		00-2
X13	CONNECTOR (21-PINS, WHITE)	Below LH side of dash	18-1	01-3
X14	CONNECTOR (30-PINS, YELLOW)	Below LH side of dash	18-1	00-4
X15	CONNECTOR (30-PINS, WHITE)	Below LH side of dash	19-3	00-4
X16	CONNECTOR (26-PINS, NATURAL)	Rear side of A2w Instrument cluster	20-2	01-1
X17	CONNECTOR (6-PINS, BROWN)	Rear side of A2w Instrument cluster	20-2	01-4
X18	CONNECTOR (26-PINS, BLUE)	Rear LH side of engine compartment in Front Power Distribution Box		01-1
X19	CONNECTOR (26-PINS, GREEN)	Rear LH side of engine compartment in Front Power Distribution Box		01-1
X20	CONNECTOR (25-PINS, BLACK)	Rear RH side of engine compartment	05-3	03-4
X22	CONNECTOR (26-PINS, BLUE)	Below Left Front Speaker		01-1
X31	CONNECTOR (12-PINS, BLACK)	LH side of engine compartment below brake fluid reservoir	06-3	01-6
X32	CONNECTOR (12-PINS, WHITE)	Below LH side of dash	19-2	07-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X33	CONNECTOR (12-PINS, BLACK)	Below LH side of dash	19-2	06-4
X34	CONNECTOR (12-PINS, NATURAL)	Below LH side of dash	19-3	06-4
X35	CONNECTOR (21-PINS, BLACK)	Below LH side of dash	19-3	01-3
X51	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		15-2
X52	CONNECTOR (9-PINS, BLACK)	In LH auxiliary relay box, engine compartment		02-3
X53	CONNECTOR (9-PINS, BLACK)	In LH auxiliary relay box, engine compartment		02-3
X54	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X55	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X56	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		15-2
X57	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X58	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X61	CONNECTOR (9-PINS, BLACK)	LH side of engine compartment in LH auxiliary relay box, engine compartment	06-2	02-3
X63	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X64	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X65	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X67	CONNECTOR (12-PINS, BLACK)	Front LH side of engine compartment near front left turn signal assembly		01-2
X69	CONNECTOR (25-PINS, BLACK)	Rear RH side of engine compartment right of LH side shock tower	05-3	03-4
X70	CONNECTOR (8-PINS, BLACK)	LH side of engine compartment		01-5
X72	CONNECTOR (8-PINS, WHITE)	Below LH side of dash	19-2	13-2

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X73	CONNECTOR (8-PINS, BLACK)	Below LH side of dash	21-1	03-1
X74	CONNECTOR (12-PINS, ORANGE)	LH side of dash above foot rest	18-3	08-2
X76	CONNECTOR (6-PINS, BLACK)	Rear RH side of engine compartment in E-Box		04-1
X79	CONNECTOR (3-PINS, BLACK)	Rear RH side of engine compartment in E-Box		04-4
X81	CONNECTOR (3-PINS, ORANGE)	LH side of engine compartment ahead of LH side shock tower	06-1	02-5
X82	CONNECTOR (3-PINS, BLACK)	Front of engine compartment behind front grille		04-5
X83	CONNECTOR (3-PINS, YELLOW)	LH side of LH footwell behind LH footwell kickpanel	17-2	04-5
X84	CONNECTOR (3-PINS, YELLOW)	LH side of LH footwell behind LH footwell kickpanel	17-2	
X85	CONNECTOR (3-PINS, BLACK)	LH side of engine compartment		19-1
X86	CONNECTOR (3-PINS, ORANGE)	RH side of engine compartment ahead of RH side shock tower	10-3	04-4
X87	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment near windshield washer reservoir RH top of radiator	12-3	02-5
X88	CONNECTOR (2-PINS, BLACK)	Below LH side of dash LH side of steering column		
X92	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment		19-3
X105	CONNECTOR (2-PINS, GRAY)	On underside of engine hood	09-3	
X106	CONNECTOR (2-PINS, GRAY)	On underside of engine hood	09-3	
X107	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir		
X109	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment on washer fluid reservoir		
X110	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir	10-2	
X111	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment top of brake fluid reservoir		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X112	CONNECTOR (2-PINS, BLACK)	Top center of engine ahead of oil fill cap (with EML)		
X113	CONNECTOR (2-PINS, NATURAL)	Near base of shock tower		10-1
X114	CONNECTOR (2-PINS, NATURAL)	Bottom of shock tower		06-3
X116	CONNECTOR (4-PINS, BLACK)	LH side of dash on brake pedal support bracket		
X118	CONNECTOR (2-PINS, BLACK)	Behind LH front wheel		16-1
X120	CONNECTOR (2-PINS, BLACK)	Front LH side of engine compartment		06-3
X121	CONNECTOR (2-PINS, WHITE)	LH side of dash on clutch pedal support bracket		
X122	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment		05-3
X123	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment near windshield washer reservoir		
X126	CONNECTOR (2-PINS, WHITE)	Front RH side of engine compartment ahead of wheel well		14-2
X127	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment ahead of wheel well		14-2
X128	CONNECTOR (2-PINS, BLACK)	LEFT FRONT TURN LIGHT, H7		
X129	CONNECTOR (2-PINS, GRAY)	LEFT PARK LIGHT, E15		
X130	CONNECTOR (2-PINS, YELLOW)	LEFT LOW BEAM LIGHT, E13		
X131	CONNECTOR (2-PINS, WHITE)	LEFT HIGH BEAM LIGHT, E11		
X132	CONNECTOR (2-PINS, BLACK)	LEFT HORN, H2		
X133	CONNECTOR (2-PINS, BLACK)	RIGHT HORN, H3		
X134	CONNECTOR (2-PINS, WHITE)	RIGHT HIGH BEAM LIGHT, E12		
X135	CONNECTOR (2-PINS, YELLOW)	RIGHT LOW BEAM LIGHT, E14		
X136	CONNECTOR (2-PINS, GRAY)	RIGHT PARK LIGHT, E19		

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X137	CONNECTOR (2-PINS, BLACK)	RIGHT FRONT TURN LIGHT, H4		
X159	CONNECTOR (10-PINS, BLACK)	In lower LH front door		
X160	CONNECTOR (10-PINS, BLACK)	PASSENGER'S SIDE MEMORY MIRROR, Y10	24-3	
X161	CONNECTOR (1-PINS, NATURAL)	UNDERHOOD LIGHT SWITCH, S19		
X163	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment on A/C compressor		02-5
X164	GROUND	RH side of engine compartment		
X165	GROUND	RH side of engine compartment	19-1	
X166	GROUND	Front RH side of engine compartment ahead of wheel well	02-1	
X166	GROUND	Front RH side of engine compartment ahead of wheel well	14-2	
X167	GROUND	Front LH side of engine compartment	09-1	
X168	CONNECTOR (1-PINS, BLACK)	Behind steering wheel	20-3	
X170	GROUND	LH side of engine compartment below brake fluid reservoir	03-3	
X170	GROUND	LH side of engine compartment below brake fluid reservoir	06-3	
X175	GROUND	Front LH side of engine compartment	09-1	
X179	GROUND	Front RH side of engine compartment ahead of wheel well	02-1	
X179	GROUND	Front RH side of engine compartment ahead of wheel well	14-2	
X251	CONNECTOR (30-PINS, BLACK)	Below LH side of dash	19-3	14-4
X252	CONNECTOR (26-PINS, GREEN)	Below LH side of rear seat		01-1
X253	CONNECTOR (26-PINS, GREEN)	Below LH side of rear seat in Rear Power Distribution Box		01-1
X254	CONNECTOR (26-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		01-1

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X255	CONNECTOR (26-PINS, YELLOW)	Below LH side of rear seat in Rear Power Distribution Box		01-1
X256	CONNECTOR (26-PINS, BLACK)	Ahead of RH front door	28-2	08-1
X257	CONNECTOR (26-PINS, BLACK)	Ahead of LH front door	28-2	08-1
X258	CONNECTOR (20-PINS, WHITE)	Below LH side of rear seat		08-4
X259	CONNECTOR (20-PINS, WHITE)	Below LH side of rear seat front of battery		08-4
X261	CONNECTOR (1-PINS, (---))	RH side of luggage compartment		
X271	CONNECTOR (12-PINS, GRAY)	Rear side of A2w instrument cluster	20-2	08-2
X272	CONNECTOR (12-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		06-4
X273	CONNECTOR (12-PINS, BLACK)	Ahead of LH rear door	28-3	14-3
X274	CONNECTOR (12-PINS, BLACK)	Ahead of RH rear door	28-3	14-3
X275	CONNECTOR (12-PINS, WHITE)	Under LH front seat	28-1	07-2
X279	CONNECTOR (12-PINS, WHITE)	Under RH front seat		07-2
X292	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X293	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X294	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X295	CONNECTOR (8-PINS, BLACK)	Below LH side of dash	19-2	13-2
X297	CONNECTOR (9-PINS, WHITE)	Below LH side of dash		02-3
X299	CONNECTOR (6-PINS, BLACK)	Below LH side of rear seat		
X311	CONNECTOR (6-PINS, BLACK)	Underside of trunk lid	32-2	17-2
X312	CONNECTOR (6-PINS, BLACK)	In RH side of luggage compartment		17-2

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X315	CONNECTOR (2-PINS, WHITE)	Underside of trunk lid	32-2	
X316	CONNECTOR (6-PINS, WHITE)	RIGHT REAR LIGHT ASSEMBLY, E17		05-5
X317	CONNECTOR (6-PINS, BLACK)	LEFT REAR LIGHT ASSEMBLY, E16		05-4
X318	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment		06-3
X319	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment		06-3
X322	CONNECTOR (8-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		13-2
X328	CONNECTOR (4-PINS, BLACK)	Underside of trunk lid RIGHT TRUNK LIGHT ASSEMBLY, E47	32-2	06-3
X329	CONNECTOR (4-PINS, BLACK)	Underside of trunk lid LEFT TRUNK LIGHT ASSEMBLY, E46		06-3
X332	CONNECTOR (5-PINS, NATURAL)	Below LH side of rear seat in Rear Power Distribution Box		03-2
X333	CONNECTOR (4-PINS, BLACK)	Behind LH fresh air cowl	04-1	08-6
X334	CONNECTOR (4-PINS, WHITE)	Behind LH fresh air cowl		08-6
X335	CONNECTOR (4-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		02-6
X336	CONNECTOR (4-PINS, WHITE)	FRONT DOME LIGHT/MAP READING ASSEMBLY, E34	21-2	06-5
X337	CONNECTOR (4-PINS, BLACK)	Below LH side of rear seat	29-3	06-3
X338	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment		06-3
X339	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment		06-3
X342	CONNECTOR (4-PINS, WHITE)	RH side of dash above RH kick panel	23-2	06-3
X351	CONNECTOR (2-PINS, BLACK)	Ahead of RH rear door		
X352	CONNECTOR (2-PINS, BLACK)	Ahead of LH rear door		
X353	CONNECTOR (2-PINS, BLACK)	Front LH door pillar		

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COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X356	CONNECTOR (4-PINS, BLACK)	In lower RH C-pillar LEFT REAR INTERIOR LIGHT, E39	31-1	13-6
X358	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid		03-3
X371	CONNECTOR (2-PINS, BLACK)	LH side of windshield header above LH visor		
X372	CONNECTOR (2-PINS, GRAY)	Rear RH side of engine compartment		
X376	CONNECTOR (2-PINS, WHITE)	Below LH side of rear seat	30-1	
X377	CONNECTOR (2-PINS, WHITE)	Behind LH rear wheel		
X379	CONNECTOR (1-PINS, BLACK)	In upper LH C-pillar	31-1	
X380	CONNECTOR (1-PINS, BLACK)	In upper RH C-pillar	30-2	
X381	CONNECTOR (2-PINS, BLACK)	DRIVER'S MAKEUP MIRROR LIGHT, E35		
X382	CONNECTOR (2-PINS, BLACK)	PASSENGER'S MAKEUP MIRROR LIGHT, E36		
X383	CONNECTOR (2-PINS, YELLOW)	Under rear of car near differential	14-3	
X388	CONNECTOR (2-PINS, BLACK)	Below LH side of rear seat		
X389	CONNECTOR (2-PINS, BLACK)	LEFT FRONT AUXILIARY TURN LIGHT, H9		
X391	CONNECTOR (2-PINS, BLACK)	Below center of console		
X393	CONNECTOR (6-PINS, BLACK)	In LH rear side of luggage compartment		04-1
X400	CONNECTOR (8-PINS, BLACK)	In LH forward side of luggage compartment	31-2	13-2
X401	CONNECTOR (1-PINS, BLACK)	DRIVER'S MAKEUP MIRROR SWITCH, S77		
X402	CONNECTOR (1-PINS, BLACK)	PASSENGER'S MAKEUP MIRROR SWITCH, S78		
X411	CONNECTOR (2-PINS, (---))	Rear of car LEFT REAR SIDE MARKER LIGHT, E70		
X412	CONNECTOR (2-PINS, (---))	Rear of car RIGHT REAR SIDE MARKER LIGHT, E71		

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COMPONENT			PAGE - FIGURE 7100.0	8500.0
X413	CONNECTOR (2-PINS, BLACK)	At back of rear window shelf		
X416	CONNECTOR (1-PINS, BLACK)	Above LH sun visor		
X417	CONNECTOR (1-PINS, BLACK)	Under roof center panel		
X423	CONNECTOR (1-PINS, (---))	Below center of console		
X424	CONNECTOR (1-PINS, BROWN)	In upper LH C-pillar	31-1	
X490	GROUND	LH side of dash	19-1	
X491	GROUND	LH side of dash	19-1	
X492	GROUND	Below RH side of rear seat near battery	02-3	
X493	GROUND	Below RH side of rear seat near battery	02-3	
X495	GROUND	Underside of RH rear seat	02-2	
X496	GROUND	Underside of RH rear seat	02-2	
X498	GROUND	Below RH side of rear seat front of battery		
X501	CONNECTOR (26-PINS, GREEN)	Center of dash ON-BOARD COMPUTER, N4		01-1
X502	CONNECTOR (26-PINS, BLACK)	LH side of dash behind steering wheel INSTRUMENT CLUSTER, A2w	20-2	01-1
X503	CONNECTOR (12-PINS, BLACK)	LH side of dash		05-6
X504	CONNECTOR (12-PINS, BLACK)	FOG LIGHT SWITCH, S10		05-6
X506	CONNECTOR (12-PINS, BLACK)	Below center of console front of gearshift selector	23-1	06-4
X507	CONNECTOR (14-PINS, BLACK)	LH side of dash behind steering wheel INSTRUMENT CLUSTER, A2w		11-1
X509	CONNECTOR (9-PINS, WHITE)	Below LH side of dash near hood release lever		02-3
X510	CONNECTOR (9-PINS, WHITE)	Below LH side of dash near hood release lever		02-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X511	CONNECTOR (8-PINS, BLACK)	Below center of console front of gearshift selector	23-1	03-1
X512	CONNECTOR (8-PINS, BLACK)	Behind center of dashboard		
X516	CONNECTOR (5-PINS, BLACK)	Center of console HAZARD SWITCH, S18		06-2
X517	CONNECTOR (4-PINS, BLACK)	DIMMER, N3		06-3
X518	CONNECTOR (4-PINS, BLACK)	Below LH side of dash below RH side of dash	17-3	06-3
X521	CONNECTOR (6-PINS, BLACK)	ASC SWITCH, S6		15-6
X522	CONNECTOR (3-PINS, WHITE)	Below LH side of dash	17-3	05-2
X523	CONNECTOR (6-PINS, BLACK)	Behind LH side of dash center of windshield header		09-2
X526	CONNECTOR (8-PINS, BLACK)	Below LH side of dash	19-3	13-2
X531	CONNECTOR (2-PINS, WHITE)	FRONT CIGAR LIGHTER, E28		
X532	CONNECTOR (2-PINS, NATURAL)	FRONT CIGAR LIGHTER LIGHT, E29		
X537	CONNECTOR (1-PINS, NATURAL)	In upper LH front door		
X538	CONNECTOR (1-PINS, NATURAL)	In upper RH front door		
X540	CONNECTOR (2-PINS, BLACK)	GLOVE BOX LIGHT SWITCH, S37		
X541	CONNECTOR (1-PINS, NATURAL)	RH side of dash		
X542	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X543	CONNECTOR (1-PINS, NATURAL)	LH side of dash		
X546	CONNECTOR (2-PINS, WHITE)	Below center of console LH side of gearshift selector	18-2	
X547	CONNECTOR (2-PINS, BLACK)	Behind center of dashboard RADIO, N9		
X601	CONNECTOR (26-PINS, WHITE)	Underside of LH front seat	26-2	14-5

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X602	CONNECTOR (26-PINS, YELLOW)	Underside of LH front seat	26-1	14-5
X603	CONNECTOR (12-PINS, BLACK)	DRIVER'S SEAT, SEAT CONTROL SWITCH, S51		06-6
X604	CONNECTOR (12-PINS, BLACK)	PASSENGER'S SEAT, SEAT CONTROL SWITCH, S56		06-6
X605	CONNECTOR (12-PINS, BLACK)	In LH forward side of luggage compartment	33-1	02-1
X606	CONNECTOR (12-PINS, WHITE)	In LH forward side of luggage compartment	33-1	02-1
X607	CONNECTOR (20-PINS, WHITE)	RH side of RH footwell behind RH footwell kickpanel		08-4
X621	CONNECTOR (10-PINS, BLACK)	Ahead of RH front door	28-2	09-1
X622	CONNECTOR (10-PINS, BLACK)	Ahead of LH front door	28-2	09-1
X623	CONNECTOR (4-PINS, BLACK)	In lower LH front door	24-2	13-6
X624	CONNECTOR (4-PINS, BLACK)	PASSENGER'S SIDE MIRROR, Y6	24-3	13-6
X625	CONNECTOR (6-PINS, BLACK)	MEMORY MIRRORS CONTROL SWITCH, S12	24-2	18-2
X626	CONNECTOR (8-PINS, BLACK)	Underside of LH front seat	26-2	13-2
X627	CONNECTOR (8-PINS, BLACK)	Center of windshield header near rear view mirror	21-2	03-1
X638	CONNECTOR (6-PINS, BLACK)	In RH side of luggage compartment	31-3	09-4
X641	CONNECTOR (6-PINS, BLACK)	In RH side of luggage compartment	25-1	09-4
X643	CONNECTOR (6-PINS, BLUE)	SUNROOF SWITCH, S38		08-3
X644	CONNECTOR (6-PINS, WHITE)	In lower LH rear door		19-4
X645	CONNECTOR (6-PINS, BLACK)	LEFT REAR WINDOW SWITCH, S41	25-2	17-2
X646	CONNECTOR (6-PINS, WHITE)	In lower RH rear door		19-4
X647	CONNECTOR (6-PINS, BLACK)	RIGHT REAR WINDOW SWITCH, S42	25-3	17-2

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X648 ..	CONNECTOR (6-PINS, BLACK)	Underside of LH front seat	26-2	17-2
X649 ..	CONNECTOR (6-PINS, WHITE)	Underside of LH front seat	26-2	16-6
X650 ..	CONNECTOR (6-PINS, BLACK)	MEMORY SEAT MIRRORS SWITCH, S57		17-2
X651 ..	CONNECTOR (6-PINS, BLACK)	DRIVER'S SEAT, SEAT HEATER SWITCH, S53		17-2
X652 ..	CONNECTOR (6-PINS, BLUE)	DRIVER'S SEAT LUMBAR SWITCH, S52		08-3
X653 ..	CONNECTOR (6-PINS, BLACK)	Underside of LH front seat	26-1	17-2
X654 ..	CONNECTOR (6-PINS, WHITE)	Underside of LH front seat	26-1	16-6
X655 ..	CONNECTOR (6-PINS, BLUE)	Underside of LH front seat	26-1	08-3
X656 ..	CONNECTOR (6-PINS, GREEN)	Underside of LH front seat	26-1	16-5
X657 ..	CONNECTOR (6-PINS, BROWN)	Underside of LH front seat	26-3	17-1
X658 ..	CONNECTOR (6-PINS, BLACK)	PASSENGER'S SEAT, SEAT HEATER SWITCH, S54		17-2
X659 ..	CONNECTOR (6-PINS, BLACK)	Under RH front seat		17-2
X660 ..	CONNECTOR (6-PINS, BLACK)	In upper LH front door	24-1	19-4
X662 ..	CONNECTOR (6-PINS, GRAY)	Below LH side of dash on-board computer (removed)		19-5
X663 ..	CONNECTOR (6-PINS, GRAY)	Below LH side of dash on-board computer (removed)		19-5
X669 ..	CONNECTOR (6-PINS, GRAY)	Behind center of dashboard		19-5
X672 ..	CONNECTOR (4-PINS, BLACK)	In LH forward side of luggage compartment		10-2
X673 ..	CONNECTOR (2-PINS, BLACK)	Below LH side of rear seat		
X674 ..	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat		
X675 ..	CONNECTOR (4-PINS, WHITE)	In LH forward side of luggage compartment		16-2

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COMPONENT LOCATION CHART

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COMPONENT			PAGE - FIGURE 7100.0	8500.0
X676	CONNECTOR (4-PINS, BLACK)	In LH forward side of luggage compartment		16-2
X680	CONNECTOR (3-PINS, BLACK)	Under LH front seat	26-3	05-2
X686	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X687	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X688	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X689	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X690	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X692	CONNECTOR (3-PINS, BLACK)	Behind center of dashboard		03-3
X692	CONNECTOR (3-PINS, BLACK)	Center of dash (radio removed)		
X696	CONNECTOR (3-PINS, BLACK)	Under RH rear of car RH side of differential		07-5
X700	CONNECTOR (1-PINS, (---))	Behind RH footwell speaker grille		
X701	CONNECTOR (1-PINS, (---))	Behind LH footwell speaker grille		
X705	CONNECTOR (2-PINS, BLACK)	Under RH rear of car near RH rear wheel well	16-2	
X709	CONNECTOR (2-PINS, BLACK)	LEFT LICENSE PLATE LIGHT, E43		
X710	CONNECTOR (2-PINS, BLACK)	RIGHT LICENSE PLATE LIGHT, E44		
X711	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid left		
X712	CONNECTOR (1-PINS, NATURAL)	Underside of trunk lid TRUNK COMPARTMENT LIGHT, E32		
X714	CONNECTOR (2-PINS, GRAY)	In lower LH rear door	25-2	
X715	CONNECTOR (2-PINS, BLACK)	In upper LH rear door	25-2	
X720	CONNECTOR (2-PINS, GRAY)	In lower LH rear door	25-3	

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X721	CONNECTOR (1-PINS, (---))	In upper RH rear door		25-3
X726	CONNECTOR (2-PINS, BLACK)	Under LH front seat		28-1
X727	CONNECTOR (2-PINS, WHITE)	Under LH front seat		27-1
X728	CONNECTOR (2-PINS, WHITE)	Under LH front seat		28-1
X729	CONNECTOR (2-PINS, BLACK)	Under LH front seat DRIVER'S SEATBACK RECLINER MOTOR, M53		28-1
X731	CONNECTOR (2-PINS, (---))	In upper LH front seatback DRIVER'S HEADREST MOTOR, M54		
X732	CONNECTOR (2-PINS, WHITE)	In upper LH front seatback DRIVER'S SEATBACK HEATER, E56		
X733	CONNECTOR (2-PINS, (---))	DRIVER'S SEATBACK HEATER, E56		
X734	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X735	CONNECTOR (2-PINS, WHITE)	Under RH front seat		27-1
X736	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X737	CONNECTOR (2-PINS, WHITE)	Under RH front seat		
X738	CONNECTOR (2-PINS, (---))	In upper RH front seatback		
X740	CONNECTOR (2-PINS, WHITE)	PASSENGER'S SEAT HEATER, E58		27-3
X741	CONNECTOR (2-PINS, WHITE)	In upper RH front seatback		
X742	CONNECTOR (2-PINS, YELLOW)	In lower RH front door		24-3
X743	CONNECTOR (2-PINS, BLACK)	In upper RH front door		25-1
X744	CONNECTOR (2-PINS, GRAY)	In lower RH front door		24-3
X746	CONNECTOR (1-PINS, (---))	In upper RH front door		
X747	CONNECTOR (2-PINS, YELLOW)	In lower LH front door		24-1

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X749	CONNECTOR (2-PINS, GRAY)	In lower LH front door	24-2	
X750	CONNECTOR (1-PINS, (---))	In upper LH front door	24-2	
X751	CONNECTOR (2-PINS, WHITE)	In lower LH front door	24-1	
X752	CONNECTOR (2-PINS, GRAY)	In upper LH front door left	24-1	
X753	CONNECTOR (1-PINS, (---))	In upper LH front door		
X766	CONNECTOR (2-PINS, (---))	Near LH headlight assembly LEFT FRONT MARKER LIGHT, E21		
X767	CONNECTOR (2-PINS, (---))	Near RH headlight assembly RIGHT FRONT MARKER LIGHT, E22		
X770	CONNECTOR (2-PINS, WHITE)	Under LH front bumper	15-2	
X771	CONNECTOR (2-PINS, BLACK)	Below LH side of dash LH side of IHKA Plenum		
X772	CONNECTOR (2-PINS, WHITE)	RH side of LH footwell		
X773	CONNECTOR (2-PINS, WHITE)	RH side of dash		
X774	CONNECTOR (1-PINS, GRAY)	Near LH headlight assembly		
X778	CONNECTOR (2-PINS, BLACK)	DRIVER'S SEAT BELT SWITCH, S58	27-1	
X779	CHARGING SOCKET	Under RH front seat		
X783	CONNECTOR (2-PINS, ORANGE)	Bottom of steering column	20-3	
X784	CONNECTOR (12-PINS, ORANGE)	Below LH side of dash		06-4
X786	CONNECTOR (2-PINS, BLACK)	UNDERHOOD LIGHT, E20		
X800	CONNECTOR (2-PINS, NATURAL)	Behind LH footwell kickpanel	17-2	
X816	CONNECTOR (1-PINS, BLACK)	Between front footwells		
X817	CONNECTOR (1-PINS, BLACK)	Between front footwells		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X818	GROUND	LH side of dash LH side of steering column	19-1	
X880	CONNECTOR (6-PINS, WHITE)	DRIVER'S THIGH SUPPORT SWITCH, S93		16-6
X881	CONNECTOR (6-PINS, WHITE)	PASSENGER'S THIGH SUPPORT SWITCH, S94		16-6
X882	CONNECTOR (2-PINS, BLACK)	Under LH front seat	28-1	
X883	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X884	CONNECTOR (3-PINS, BLUE)	In upper RH front seatback		07-1
X885	CONNECTOR (3-PINS, BLACK)	Underside of LH front seat		09-5
X890	CONNECTOR (2-PINS, BLACK)	Behind LH front fog light		
X900	CONNECTOR (2-PINS, WHITE)	Above LH footwell dash panel		
X901	CONNECTOR (2-PINS, WHITE)	Above RH footwell dash panel		
X904	CONNECTOR (4-PINS, BLACK)	LH side of RH footwell		06-3
X905	CONNECTOR (5-PINS, BLACK)	Center of dash middle of heater control panel		09-3
X910	B+ JUNCTION POINT	Rear LH side of engine compartment	01-1	
X910	B+ JUNCTION POINT	Rear LH side of engine compartment	05-3	
X944	GROUND	Below LH side of rear seat		
X948	CONNECTOR (2-PINS, BLACK)	At back of rear window shelf		
X997	CONNECTOR (2-PINS, WHITE)	Under rear of car behind RH rear wheel		
X998	CONNECTOR (4-PINS, BLACK)	Below LH side of dash		06-5
X999	CONNECTOR (4-PINS, BLACK)	Below LH side of dash		06-3
X1021	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X1049	CONNECTOR (1-PINS, (---))	RH side of engine compartment		
X1098	CONNECTOR (12-PINS, BLACK)	Front of engine compartment		05-6
X1160	GROUND	LH side of dash LH side of steering column	19-1	
X1171	CONNECTOR (55-PINS, NATURAL)	Rear RH side of engine compartment in E-Box SLIP CONTROL MODULE (ABS/ ASC), A70		00-1
X1191	CONNECTOR (4-PINS, BLACK)	Rear of luggage compartment below brake fluid reservoir behind trim panel		06-3
X1193	CONNECTOR (2-PINS, (---))	TRANSMISSION POSITION INDICATOR LIGHT, E82		
X1195	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X1197	CONNECTOR (8-PINS, WHITE)	Rear RH side of engine compartment	11-3	03-1
X1216	CONNECTOR (15-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		12-3
X1217	CONNECTOR (26-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		01-1
X1221	CONNECTOR (26-PINS, GREEN)	Below LH side of rear seat in Rear Power Distribution Box		10-4
X1222	CONNECTOR (6-PINS, WHITE)	In LH forward side of luggage compartment		04-1
X1250	CONNECTOR (10-PINS, BLACK)	RH side of luggage compartment behind side panel		15-2
X1251	CONNECTOR (2-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel	32-3	
X1252	CONNECTOR (2-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel	32-3	
X1253	CONNECTOR (2-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel		
X1266	CONNECTOR (1-PINS, BLACK)	In rear window REAR DEFOGGER/ANTENNA, E10		
X1322	CONNECTOR (5-PINS, BLACK)	Center of dash		
X1374	CONNECTOR (1-PINS, NATURAL)	GLOVE BOX LIGHT, E42		

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X1386	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment in E-Box		18-4
X1388	CONNECTOR (2-PINS, BLACK)	Rear RH side of engine compartment		
X1389	CONNECTOR (12-PINS, BLACK)	RH side of engine compartment		02-1
X1404	CONNECTOR (3-PINS, NATURAL)	TELEPHONE INTERFACE US, A192		
X1427	CONNECTOR (1-PINS, NATURAL)	DASH LIGHT, E41		
X1439	CONNECTOR (2-PINS, BLACK)	TRANSMISSION RANGE SELECTOR LIGHT, E9500	18-2	
X1851	CONNECTOR (1-PINS, BLACK)	At back of rear window shelf		
X3210	CONNECTOR (26-PINS, BLUE)	LH side of dash LH side of steering column		01-1
X3211	CONNECTOR (4-PINS, BLACK)	Center of dash		05-1
X3212	CONNECTOR (4-PINS, BLACK)	Below LH side of dash	17-3	03-3
X5000	CONNECTOR (4-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-6
X6000	CONNECTOR (55-PINS, BLACK)	Rear RH side of engine compartment in E-Box ENGINE CONTROL MODULE (DME), A6000		00-1
X6002	CONNECTOR (20-PINS, BLACK)	Rear LH side of engine compartment right of LH side shock tower		04-6
X6003	CONNECTOR (8-PINS, BLACK)	Rear RH side of engine compartment in E-Box	11-3	03-1
X6004	CONNECTOR (35-PINS, BLACK)	Rear RH side of engine compartment in E-Box		00-3
X6006	CONNECTOR (5-PINS, GREEN)	Rear RH side of engine compartment in E-Box		02-4
X6053	CONNECTOR (12-PINS, BLACK)	RH side of dash behind glove box	23-2	02-1
X6101	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6102	CONNECTOR (2-PINS, BLACK)	Top center of engine		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6103	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6104	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6105	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6106	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6120	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6130	CONNECTOR (3-PINS, BLACK)	Top front of engine	08-3	03-5
X6131	CONNECTOR (2-PINS, BLACK)	INTAKE AIR RESONANCE CHANGEOVER VALVE, Y6131		
X6132	CONNECTOR (2-PINS, BLACK)	Top LH side of engine (M5)		
X6133	CONNECTOR (2-PINS, BLACK)	Top front of engine near distributor	08-2	
X6150	CONNECTOR (1-PINS, (---))	IGNITION COIL, T6150		
X6151	CONNECTOR (3-PINS, GRAY)	RH side of engine		15-4
X6152	CONNECTOR (3-PINS, GRAY)	RH side of engine		15-4
X6153	CONNECTOR (3-PINS, GRAY)	RH side of engine		15-4
X6154	CONNECTOR (3-PINS, GRAY)	RH side of engine		15-4
X6155	CONNECTOR (3-PINS, GRAY)	RH side of engine		15-4
X6156	CONNECTOR (3-PINS, GRAY)	RH side of engine		15-4
X6200	CONNECTOR (4-PINS, BLACK)	Lower LH side of engine	07-1	13-5
X6201	CONNECTOR (3-PINS, BLACK)	Front of engine compartment below intake manifold	08-1	03-5
X6201	CONNECTOR (3-PINS, BLACK)	Top front of engine	08-2	03-5
X6202	CONNECTOR (3-PINS, BLACK)	Front of engine compartment below intake manifold	08-1	03-5

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COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6202	CONNECTOR (3-PINS, BLACK)	Top front of engine	08-2	03-5
X6203	CONNECTOR (3-PINS, BLACK)	Front of engine compartment below intake manifold		03-5
X6205	CONNECTOR (2-PINS, BLACK)	Front of engine on coolant inlet		
X6206	CONNECTOR (7-PINS, BLACK)	Front LH side of engine compartment ahead of LH side shock tower		13-4
X6208	CONNECTOR (2-PINS, BLACK)	Front of engine CAMSHAFT ACTUATOR, B6208		
X6209	CONNECTOR (3-PINS, BLACK)	Front of engine HALL EFFECT CAMSHAFT SENSOR, B6209		
X6217	CONNECTOR (4-PINS, GRAY)	Top front of engine		09-6
X6230	CONNECTOR (3-PINS, BLACK)	LH side of engine	07-2	03-5
X6231	CONNECTOR (2-PINS, BLACK)	Front of engine compartment below intake manifold		
X6232	CONNECTOR (2-PINS, BLACK)	Front of engine on coolant inlet		
X6233	CONNECTOR (5-PINS, BLACK)	Top center of engine ahead of oil fill cap		12-2
X6234	CONNECTOR (2-PINS, WHITE)	Front LH side of engine compartment		
X6235	CONNECTOR (2-PINS, BLACK)	Rear RH side of engine compartment in E-Box		
X6236	CONNECTOR (2-PINS, BLACK)	Top rear of engine on coolant inlet		
X6238	CONNECTOR (2-PINS, BLACK)	Front LH side of engine compartment		
X6241	CONNECTOR (3-PINS, BLACK)	Below intake manifold		03-5
X6242	CONNECTOR (3-PINS, BLACK)	Below intake manifold		03-5
X6250	CONNECTOR (3-PINS, BLACK)	LH side of engine compartment		03-5
X6251	CONNECTOR (6-PINS, BLACK)	Top front of engine		02-2
X6252	CONNECTOR (1-PINS, BLACK)	THROTTLE POSITION SENSOR, R6252		

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X6300	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box	11-2	02-3
X6301	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box	11-2	02-3
X6302	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-3
X6303	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box	11-2	02-3
X6304	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-3
X6350	CONNECTOR (8-PINS, BLACK)	Top front of engine near distributor		03-6
X6400	B+ JUNCTION POINT	Rear RH side of engine compartment in E-Box	01-2	
X6401	CONNECTOR (1-PINS, (---))	Underside of rear seat		
X6450	GROUND	Rear RH side of engine compartment	03-1	
X6451	GROUND	Rear RH side of engine compartment	03-1	
X6454	GROUND	Rear RH side of engine compartment	03-1	
X6455	GROUND	Front of engine		
X6456	GROUND	Front of engine	03-2	
X6506	CONNECTOR (4-PINS, BLACK)	Rear RH side of engine compartment in E-Box	12-1	06-3
X6508	CONNECTOR (3-PINS, BLACK)	LH side of engine compartment	07-1	03-5
X6509	CONNECTOR (1-PINS, (---))	GENERATOR, G6509		
X6510	CABLE SOCKET STARTER TERMINAL 50	LH side of engine compartment below intake manifold		
X6511	CABLE SOCKET ALTERNATOR TERMINAL 30h	Below intake manifold		
X6512	CABLE SOCKET STARTER TERMINAL 30h	LH side of engine		
X7150	CONNECTOR (1-PINS, (---))	IGNITION COIL, T6150		

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COMPONENT LOCATION CHART

COMPONENT

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X7509	CONNECTOR (1-PINS, (---))	GENERATOR, G6509		
X8150	CONNECTOR (1-PINS, (---))	IGNITION COIL, T6150		
X8500	CONNECTOR (35-PINS, BLACK)	Behind RH footwell kickpanel		00-3
X8500	CONNECTOR (55-PINS, BLACK)	Behind RH footwell kickpanel		00-1
X8503	CONNECTOR (6-PINS, BLUE)	Below center console		08-3
X8505	CONNECTOR (9-PINS, BLACK)	On LH side of transmission		11-2
X8507	CONNECTOR (1-PINS, BLACK)	Rear RH side of engine compartment		
X8508	GROUND	Underside of RH rear seat	02-2	
X8513	CONNECTOR (2-PINS, WHITE)	Below center console front of gearshift selector		
X8516	CONNECTOR (2-PINS, BLACK)	Under center of car		
X10051	CONNECTOR (4-PINS, WHITE)	Behind LH side of dash		06-3
X10063	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X10068	CONNECTOR (2-PINS, GRAY)	LEFT FOG LIGHT, E26		
X10069	CONNECTOR (2-PINS, GRAY)	RIGHT FOG LIGHT, E27		
X10070	CONNECTOR (2-PINS, GRAY)	LEFT LOW BEAM LIGHT, E13		
X10071	CONNECTOR (2-PINS, GRAY)	LEFT HIGH BEAM LIGHT, E11		
X10074	CONNECTOR (2-PINS, GRAY)	RIGHT HIGH BEAM LIGHT, E12		
X10075	CONNECTOR (2-PINS, GRAY)	RIGHT LOW BEAM LIGHT, E14		
X10082	CONNECTOR (5-PINS, GREEN)	RH side of LH footwell behind LH footwell trim	17-1	02-4
X10083	CONNECTOR (4-PINS, BLACK)	RH side of LH footwell	17-1	02-6

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COMPONENT			PAGE – FIGURE 7100.0	8500.0
X10084	CONNECTOR (9-PINS, BLACK)	Below RH side of dash		02-3
X10094	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment		
X13012	CONNECTOR (26-PINS, WHITE)	Below LH side of rear seat (with ZVM)		14-5
X13018	CONNECTOR (1-PINS, BLACK)	In rear window		
X13023	CONNECTOR (2-PINS, WHITE)	Center console		
X13024	CONNECTOR (2-PINS, BLACK)	Center console		
X13025	CONNECTOR (12-PINS, BLACK)	Below RH side of dash		
X13056	CONNECTOR (9-PINS, BLACK)	RH side of luggage compartment behind side panel		02-3
X13057	CONNECTOR (3-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel		05-2
X13058	CONNECTOR (2-PINS, GREEN)	RH side of luggage compartment behind side panel		
X13059	CONNECTOR (3-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel		05-2
X13085	CONNECTOR (10-PINS, BLACK)	Behind LH footwell kickpanel	32-1	09-1
X13086	CONNECTOR (18-PINS, BLACK)	Behind LH footwell kickpanel	32-1	13-3
X13105	CONNECTOR (3-PINS, BLACK)	Below LH side of dash		03-3
X13106	CONNECTOR (6-PINS, BLACK)	RH side of luggage compartment behind side panel		15-5
X13107	CONNECTOR (2-PINS, NATURAL)	LIFT GATE SWITCH, S172	32-3	
X13119	CONNECTOR (12-PINS, WHITE)	Below LH side of dash		06-4
X13123	CONNECTOR (9-PINS, BLACK)	RH side of luggage compartment		02-3
X13124	CONNECTOR (9-PINS, BLACK)	RH side of luggage compartment		02-3
X13139	CONNECTOR (10-PINS, BLACK)	Center of windshield header		09-1

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X18025	CONNECTOR (4-PINS, BLACK)	LH side of engine compartment		05-1
X18064	CONNECTOR (6-PINS, WHITE)	LEFT REAR HEADREST SWITCH, S114		
X18065	CONNECTOR (6-PINS, WHITE)	RIGHT REAR HEADREST SWITCH, S115		
X18067	CONNECTOR (1-PINS, (---))	Below RH side of rear seat near battery		
X18068	CONNECTOR (1-PINS, (---))	Below RH side of rear seat near battery		
X18069	CONNECTOR (6-PINS, BLUE)	Below LH side of dash		04-1
X18080	CONNECTOR (1-PINS, NATURAL)	TRUNK LID LIGHT, E33		
X18084	CONNECTOR (2-PINS, BLACK)	LH front door	24-1	
X18093	CONNECTOR (3-PINS, WHITE)	ACCESSORY TABLE MICROSWITCH, S119		03-3
X18097	CONNECTOR (2-PINS, BLACK)	Below LH side of dash		
X18126	CONNECTOR (17-PINS, BLACK)	Center of dash RADIO, N9		04-2
X18151	CONNECTOR (10-PINS, BLACK)	IHKR/F3 SWITCHING UNIT, S135w		20-1
X18153	CONNECTOR (3-PINS, BLACK)	Behind center of dashboard near gearshift lever		05-2
X18154	CONNECTOR (18-PINS, BLACK)	IHKR/F3 CONTROL PANEL, S134w		19-6
X18155	CONNECTOR (26-PINS, WHITE)	Between front footwells INTEGRATED CLIMATE REGULATION CONTROL MODULE (IHKR/F3), A87w	22-1	10-4
X18156	CONNECTOR (26-PINS, BLACK)	Between front footwells INTEGRATED CLIMATE REGULATION CONTROL MODULE (IHKR/F3), A87w	22-1	10-4
X18157	CONNECTOR (26-PINS, BLUE)	Between front footwells INTEGRATED CLIMATE REGULATION CONTROL MODULE (IHKR/F3), A87w	22-1	10-4

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X18181	CONNECTOR (6-PINS, BLACK)	Underside of LH front seat		17-2
X18186	CONNECTOR (1-PINS, NATURAL)	In upper LH front door		
X18190	CONNECTOR (1-PINS, NATURAL)	In upper LH front door		
X18191	CONNECTOR (1-PINS, (---))	Behind RH footwell speaker grille		
X18192	CONNECTOR (1-PINS, WHITE)	In upper RH front door		
X18193	CONNECTOR (1-PINS, (---))	In upper RH front door		
X18203	CONNECTOR (4-PINS, (---))	Below RH side of rear seat		06-5
X18205	CONNECTOR (2-PINS, WHITE)	Front of gearshift selector	23-1	
X18244	CONNECTOR (8-PINS, BLACK)	Roof		03-1
X18245	CONNECTOR (8-PINS, BLACK)	In roof panel	32-1	03-1
X18259	CONNECTOR (10-PINS, BLACK)	Below LH side of dash		15-2
X18263	CONNECTOR (2-PINS, WHITE)	Middle of heater control panel		
X18265	CONNECTOR (1-PINS, (---))	Below rear seat		
X18500	CONNECTOR (26-PINS, (---))	TELEPHONE TRANSCEIVER, H38		
X18503	CONNECTOR (2-PINS, (---))	TELEPHONE INTERFACE US, A192		
X18506	CONNECTOR (2-PINS, (---))	Behind center of dashboard		
X18507	CONNECTOR (4-PINS, (---))	MICROPHONE, B400		
X18508	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard near gearshift lever		06-3
X18508	CONNECTOR (4-PINS, (---))	LEFT FRONT SPEAKER, H41		
X18509	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard near gearshift lever		06-5

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COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
X18509	CONNECTOR (8-PINS, (---))	TELEPHONE INTERFACE US, A192		
X18729	CONNECTOR (3-PINS, NATURAL)	In LH forward side of luggage compartment	33-1	18-1
X18729	CONNECTOR (2-PINS, (---))	CD CHANGER, N22		
X18741	CONNECTOR (4-PINS, (---))	Center console under telephone		
Y1	ABS HYDRAULIC UNIT	LH side of engine compartment below brake fluid reservoir (525i)		
Y4	WATER VALVE ASSEMBLY	Rear LH side of engine compartment on engine bulkhead	05-3	
Y5	DRIVER'S SIDE MIRROR	In upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	In upper RH front door		
Y9	DRIVER'S SIDE MEMORY MIRROR	In upper LH front door		
Y10	PASSENGER'S SIDE MEMORY MIRROR	In upper RH front door		
Y6101	CYL. 1 FUEL INJECTION VALVE	Top center of engine	11-1	
Y6102	CYL. 2 FUEL INJECTION VALVE	Top center of engine	11-1	
Y6103	CYL. 3 FUEL INJECTION VALVE	Top center of engine	11-1	
Y6104	CYL. 4 FUEL INJECTION VALVE	Top center of engine	11-1	
Y6105	CYL. 5 FUEL INJECTION VALVE	Top center of engine	11-1	
Y6106	CYL. 6 FUEL INJECTION VALVE	Top center of engine	11-1	
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine (near oil level stick)	07-1	
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine (near oil level stick) (M5)	07-3	
Y6130	IDLE SPEED CONTROL VALVE	Top front of engine on throttle body (M5)	08-3	
Y6130	IDLE SPEED CONTROL VALVE	Front of engine on coolant inlet	13-1	

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COMPONENT LOCATION CHART

COMPONENT

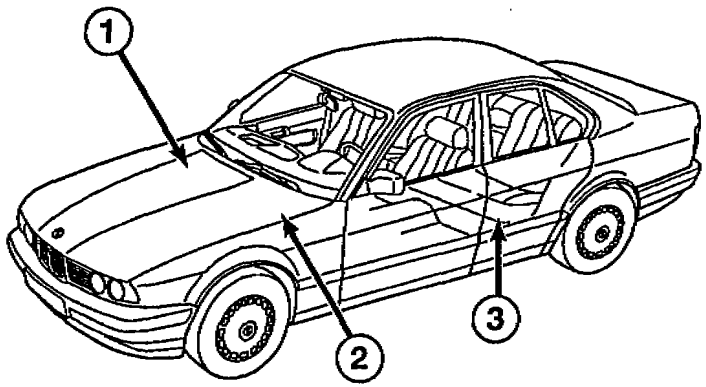
PAGE - FIGURE
7100.0 8500.0

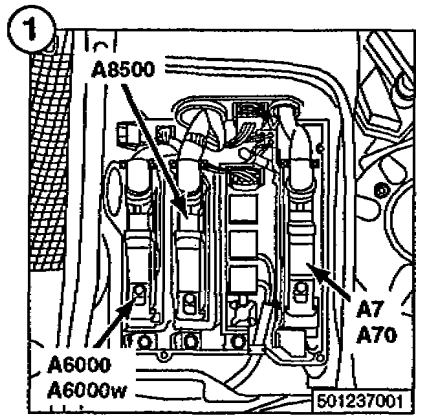
Y6131 .	INTAKE AIR RESONANCE CHANGEOVER VALVE	LH side of engine (near oil level stick) (M5)
Y8505y	TRANSMISSION VALVE UNIT	In transmission
Y8516 .	ELECTRONIC TRANSMISSION ENGINE SPEED SENSOR (EGS)	Under center of car

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COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS





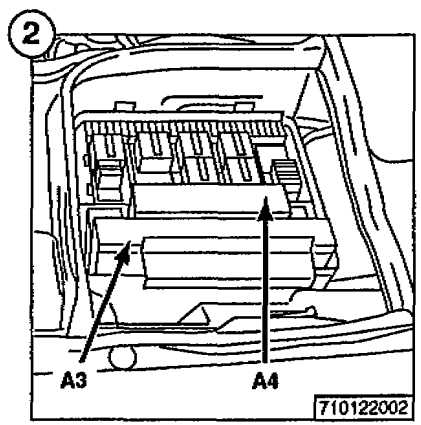
A7
SLIP CONTROL MODULE (ABS)

A8500
TRANSMISSION CONTROL MODULE (EGS)

A70
SLIP CONTROL MODULE (ABS/ASC)

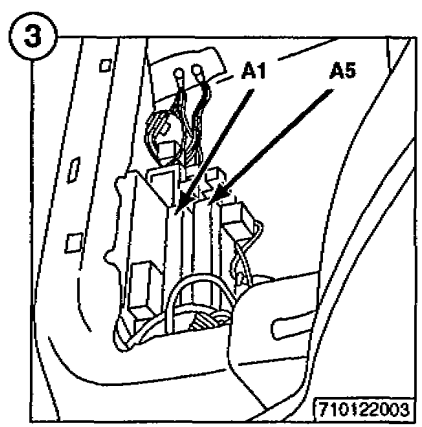
A6000
ENGINE CONTROL MODULE (DME)

A6000w
ENGINE CONTROL MODULE (M1.2, S38)



A3
LAMP CONTROL MODULE

A4
CHECK CONTROL MODULE



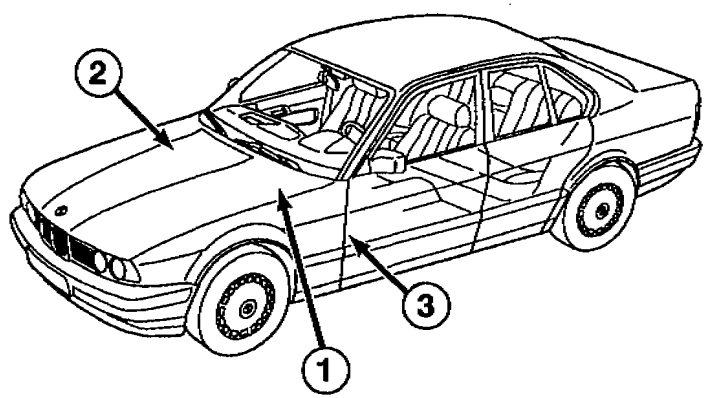
A1
GENERAL MODULE

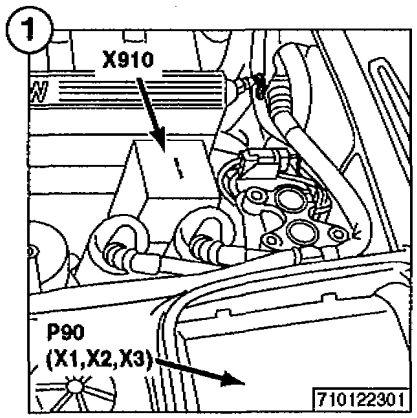
A5
RELAY MODULE

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COMPONENT LOCATION VIEWS

B(+)





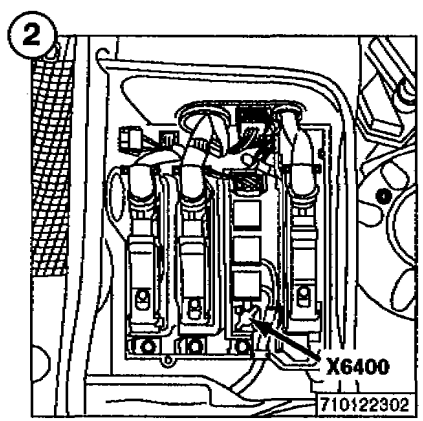
P90
FRONT POWER DISTRIBUTION BOX

X910
B+ JUNCTION POINT

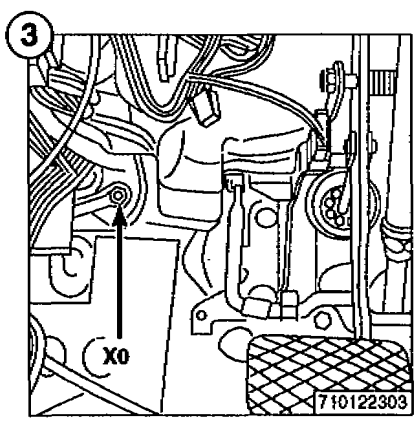
X1
B+
JUNCTION POINT

X2
BATTERY
B+ START POINT

X3
B+
JUNCTION POINT



X6400
B+ JUNCTION POINT

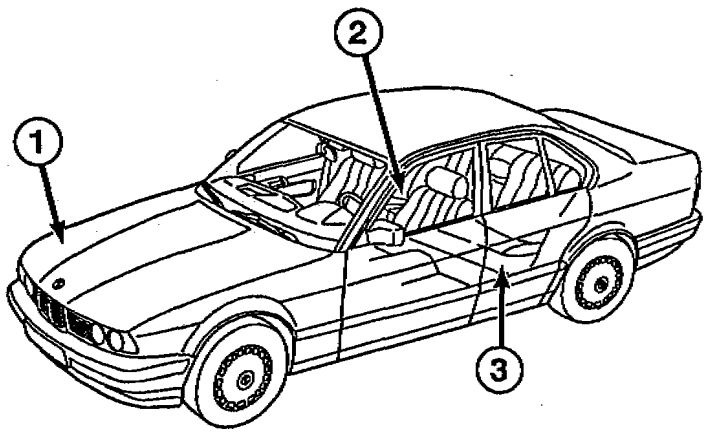


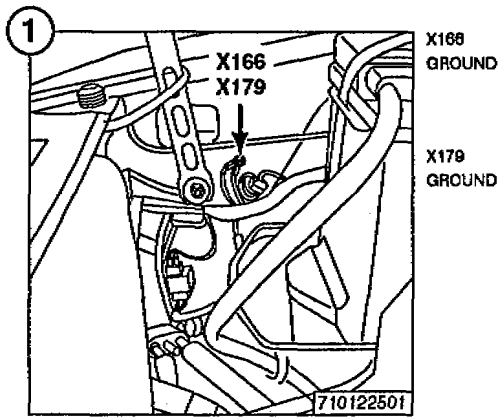
X0
B+
JUNCTION POINT

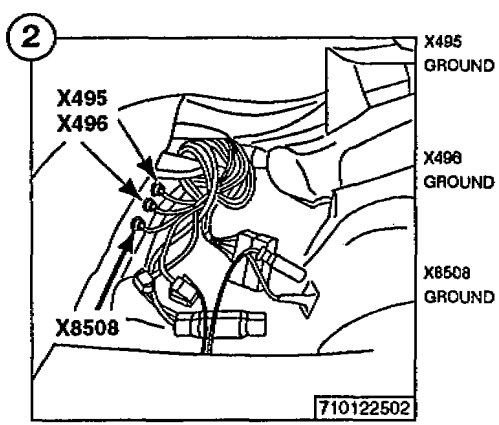
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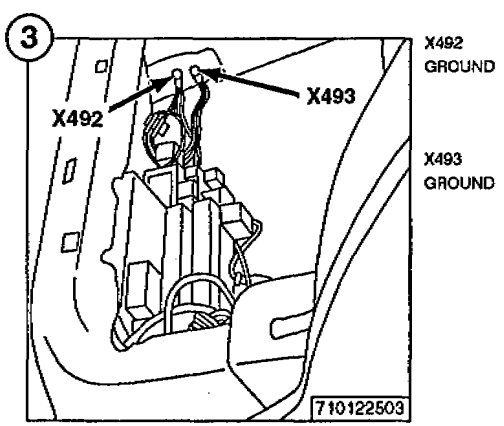
COMPONENT LOCATION VIEWS

B(-)





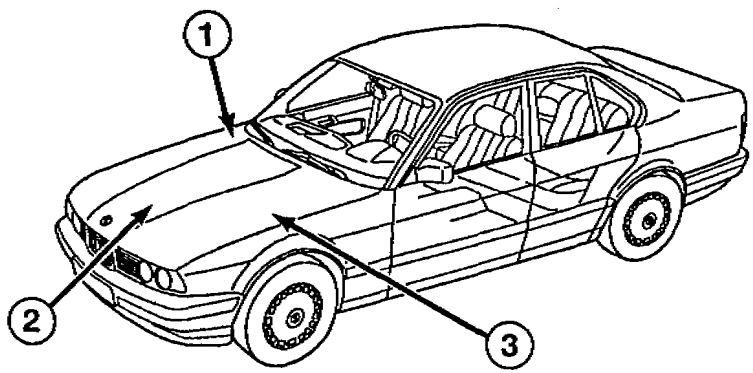


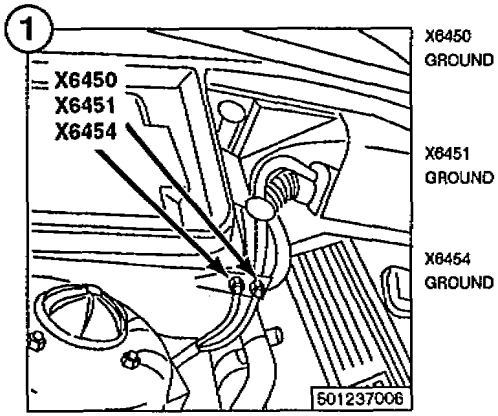


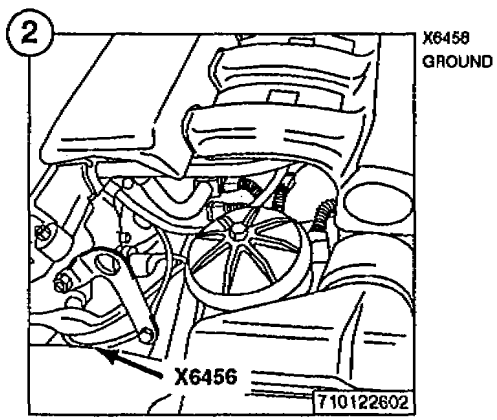
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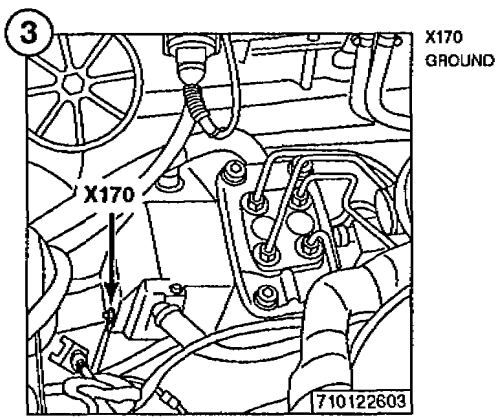
COMPONENT LOCATION VIEWS

B(-)

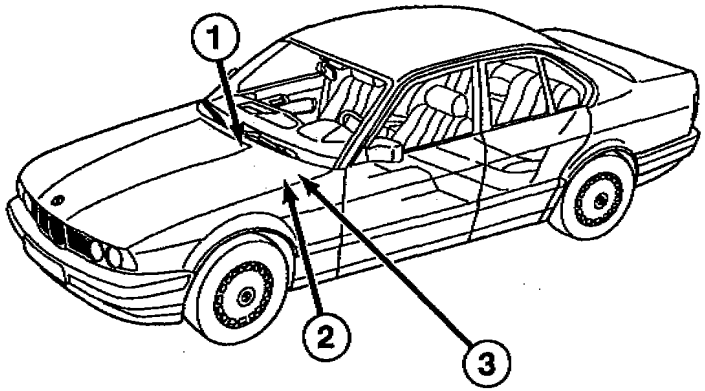


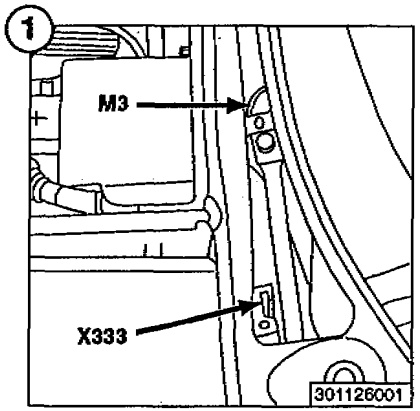






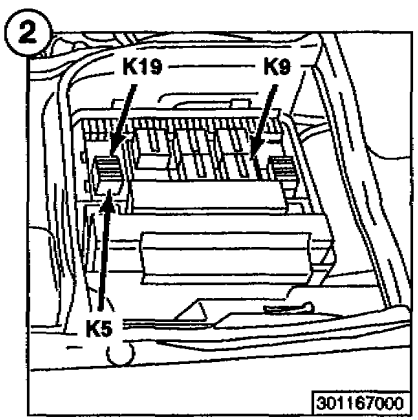
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1 M3 WIPER MOTOR

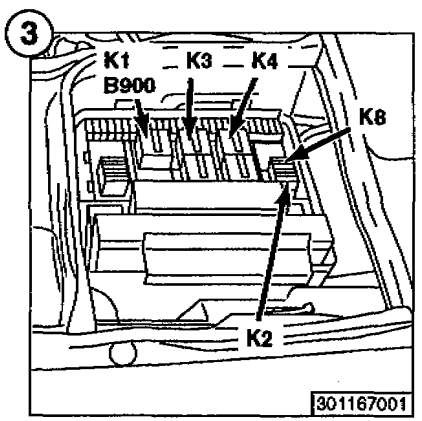
X333



2 K5 WASHER PUMP RELAY

K9 UNLOADER RELAY, TERMINAL 15

K19 COMPRESSOR CONTROL RELAY



3 B900 JUMPER PLUG

K1 STARTER RELAY

K2 HORN RELAY

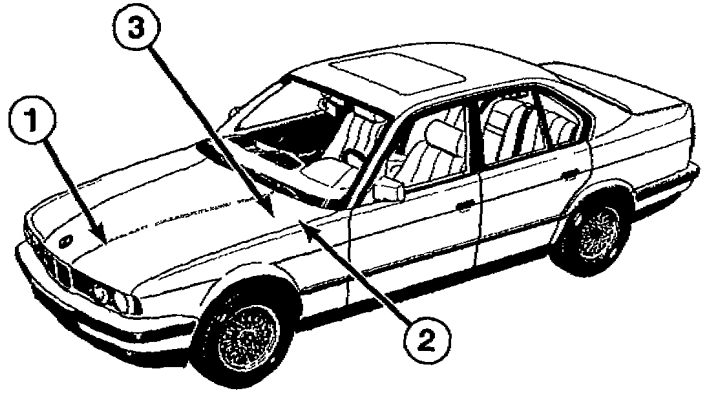
K3 UNLOADER RELAY, TERMINAL R

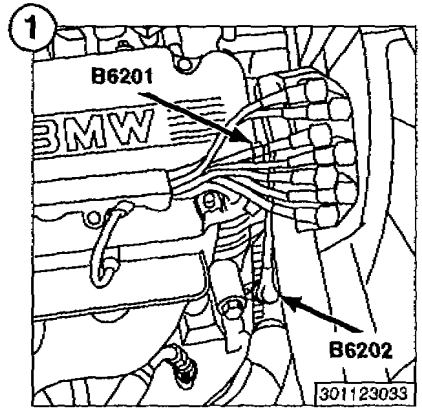
K4 BLOWER RELAY

K8 AUXILIARY WATER PUMP RELAY

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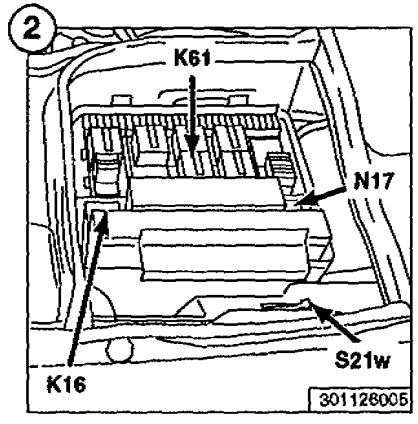
COMPONENT LOCATION VIEWS





B6201
CYLINDER
IDENTIFICATION
SENSOR

B6202
CRANKSHAFT
POSITION/RPM
SENSOR

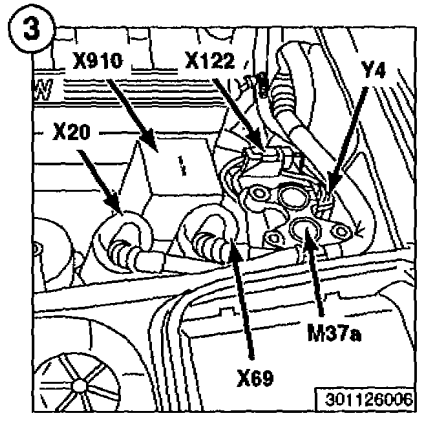


K16
HAZARD
FLASHER RELAY

K61
UNLOADER
RELAY
TERMINAL 61

N17
CRASH CONTROL
MODULE

S21w
ENGINE HOOD
SWITCH



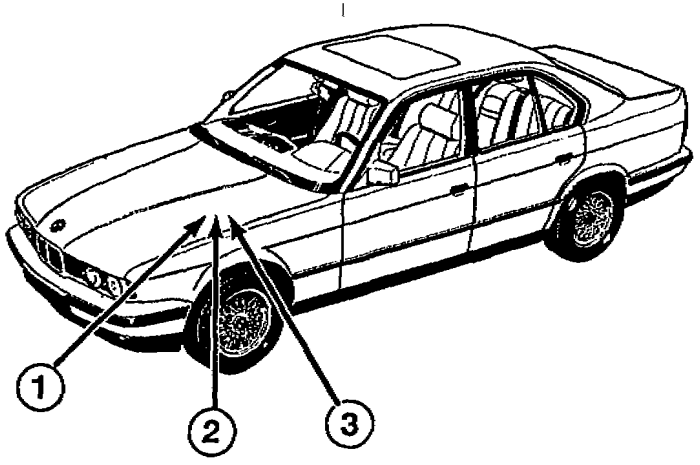
M37a
AUXILIARY
WATER PUMP

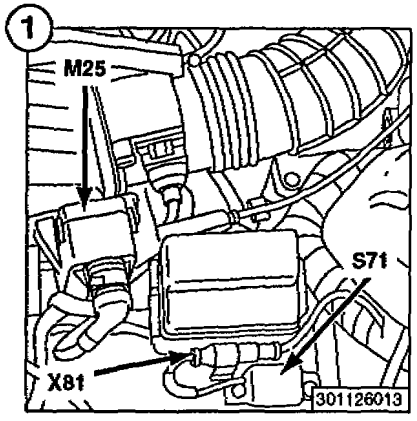
Y4
WATER VALVE
ASSEMBLY

X910
B+ JUNCTION
POINT

X20
X69
X122

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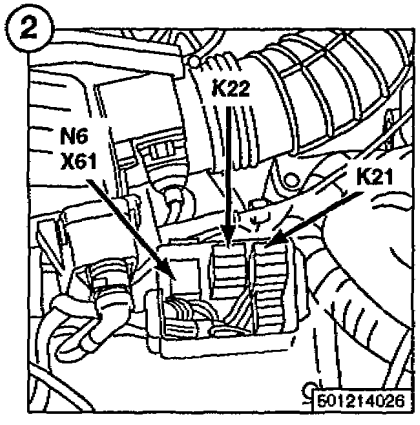




M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

S71
LEFT FRONT
IMPACT SENSOR

X81

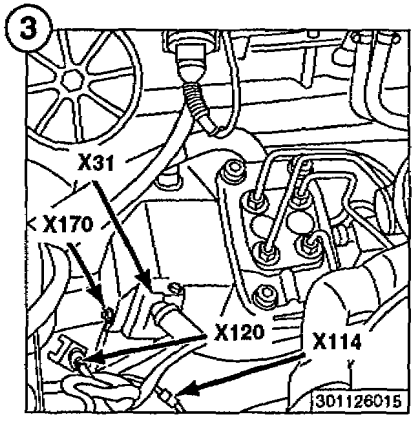


K21
NORMAL SPEED
RELAY

K22
HIGH SPEED
RELAY

X61

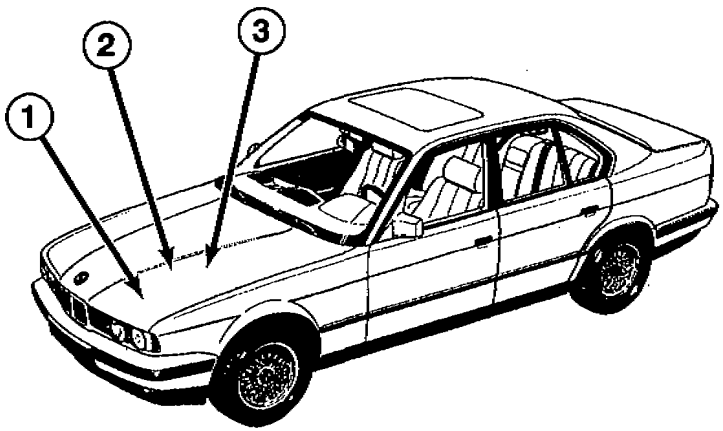
N6
HEADLIGHT/
FOGLIGHT
CLEANING
MODULE (SRA)



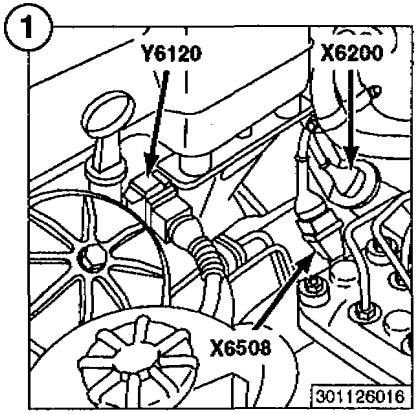
X31
X114
X120
X170

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COMPONENT LOCATION VIEWS



1

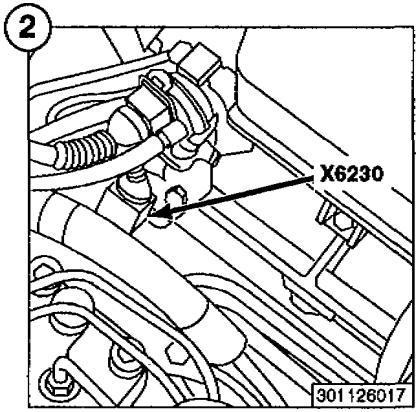


Y6120
EVAPORATIVE
EMISSION VALVE

X6200

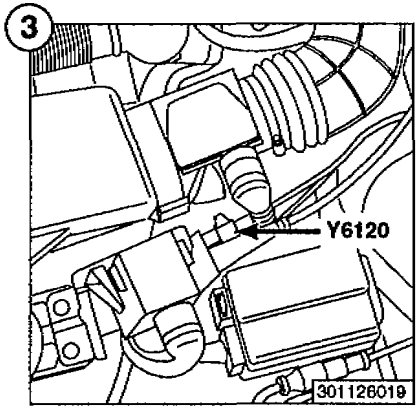
X6508

2



X6230

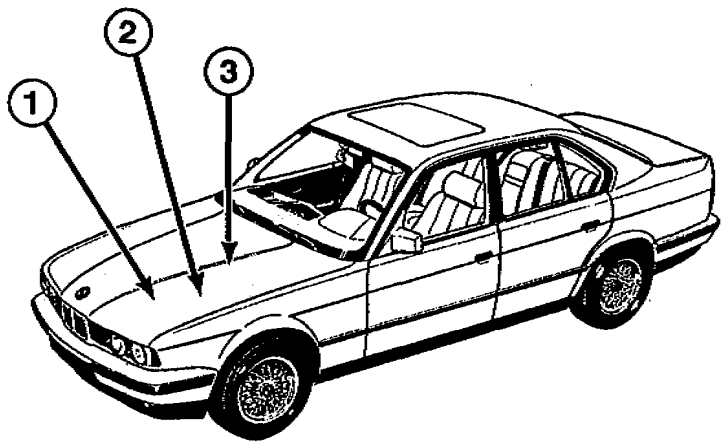
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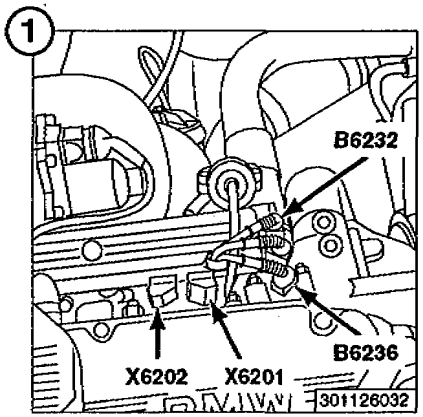


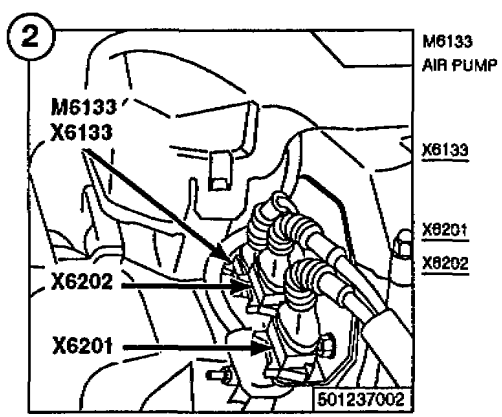
Y6120
EVAPORATIVE
EMISSION VALVE

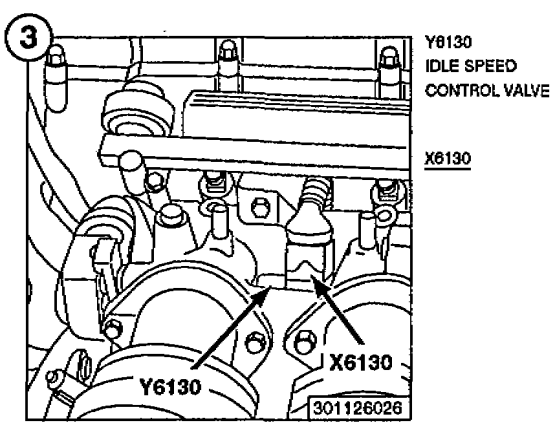
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COMPONENT LOCATION VIEWS





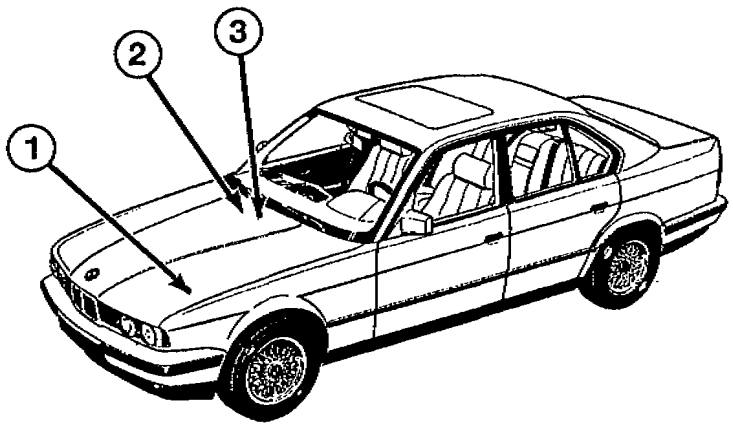


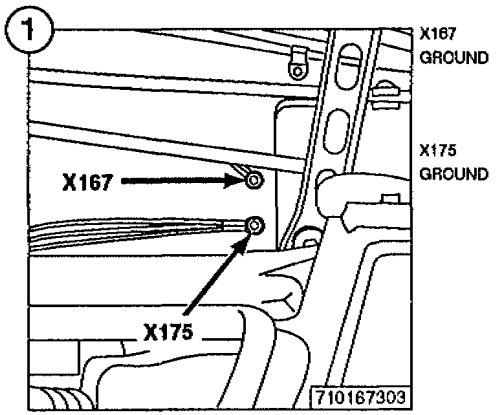


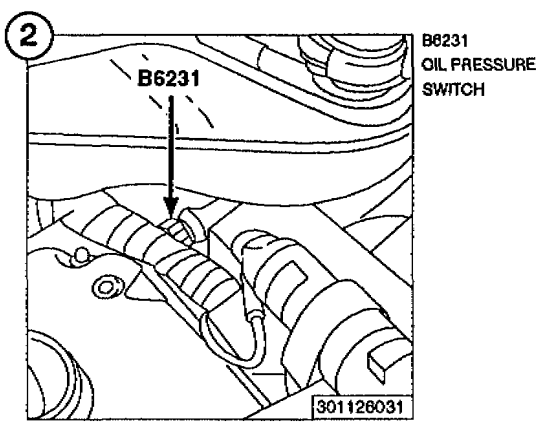
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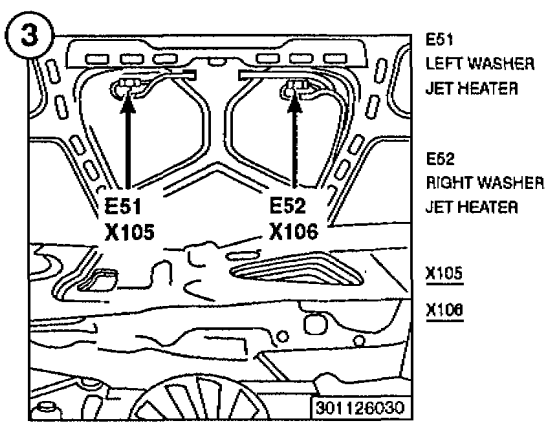
COMPONENT LOCATION VIEWS

cardiagn.com

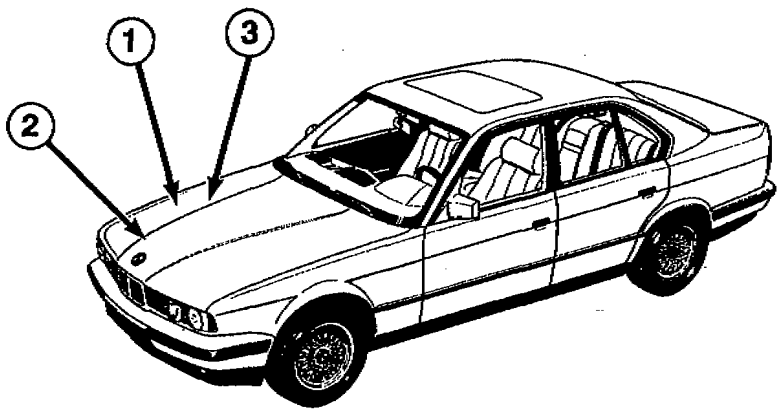


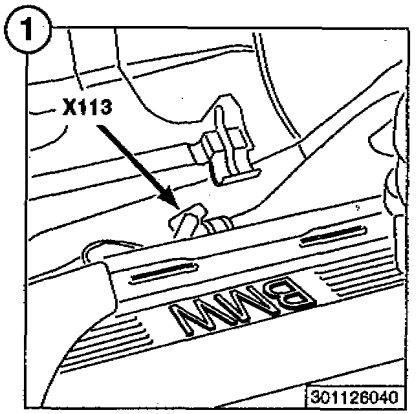


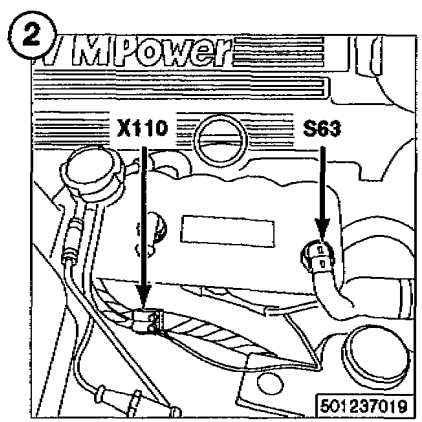




COMPONENT LOCATION VIEWS

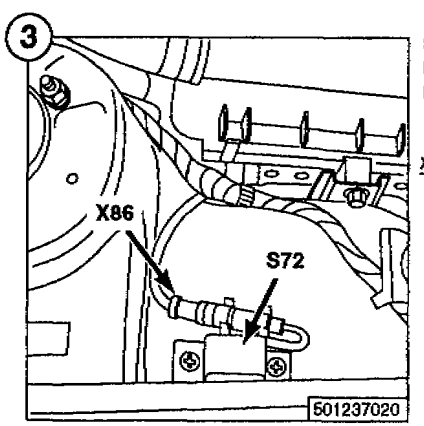






S63
ENGINE COOLANT
LEVEL SWITCH

X110

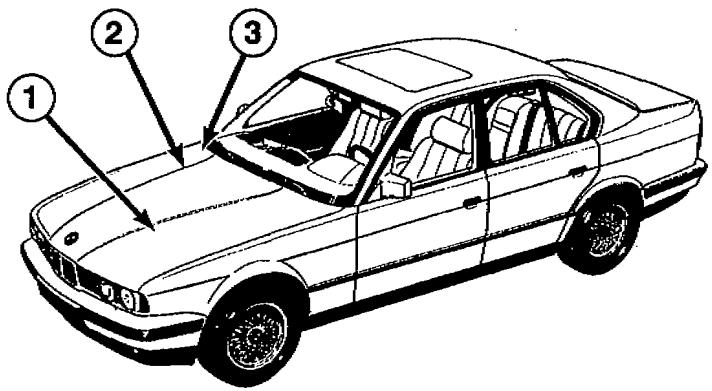


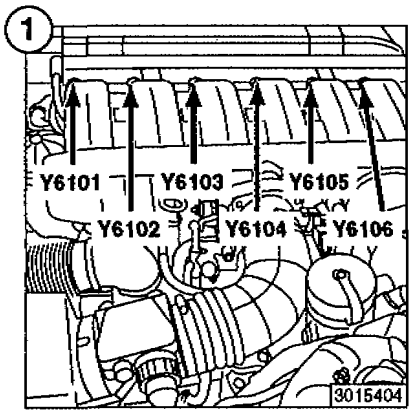
S72
RIGHT FRONT
IMPACT SENSOR

X86

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COMPONENT LOCATION VIEWS





Y6101
CYL. 1 FUEL
INJECTION VALVE

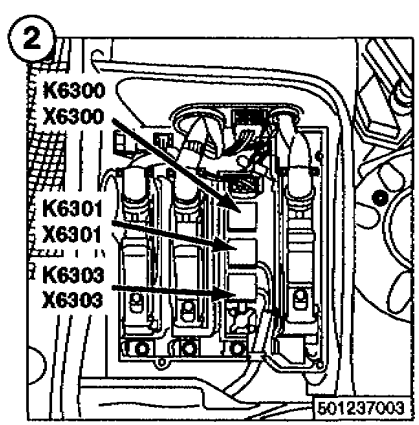
Y6102
CYL. 2 FUEL
INJECTION VALVE

Y6103
CYL. 3 FUEL
INJECTION VALVE

Y6104
CYL. 4 FUEL
INJECTION VALVE

Y6105
CYL. 5 FUEL
INJECTION VALVE

Y6106
CYL. 6 FUEL
INJECTION VALVE

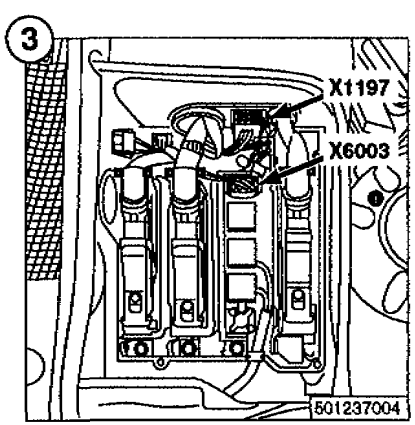


K6300
ENGINE CONTROL
MODULE RELAY

X6300
X6301
X6303

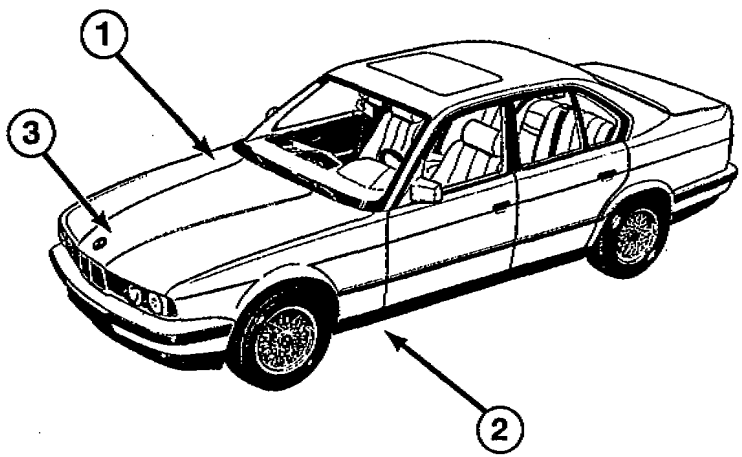
K6301
CYL. 1-6 FUEL
PUMP RELAY

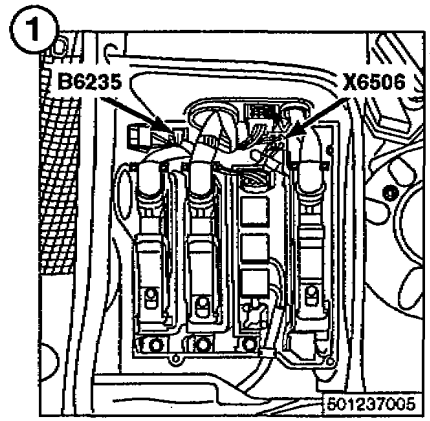
K6303
OXYGEN SENSOR
RELAY



X1197
X6003

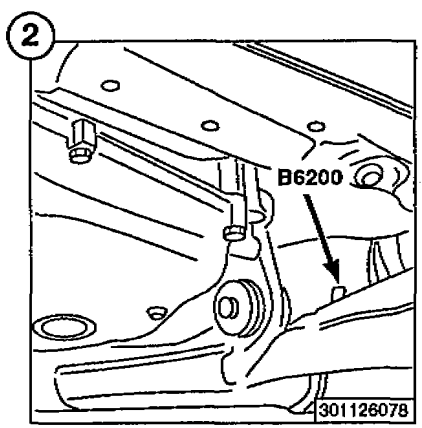
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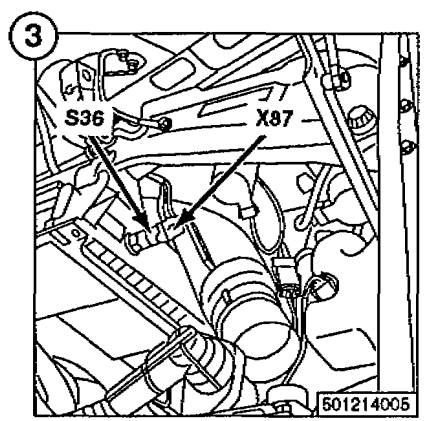


1 B6235
TEMPERATURE
SWITCH

X6506



2 B6200
HEATED
OXYGEN SENSOR

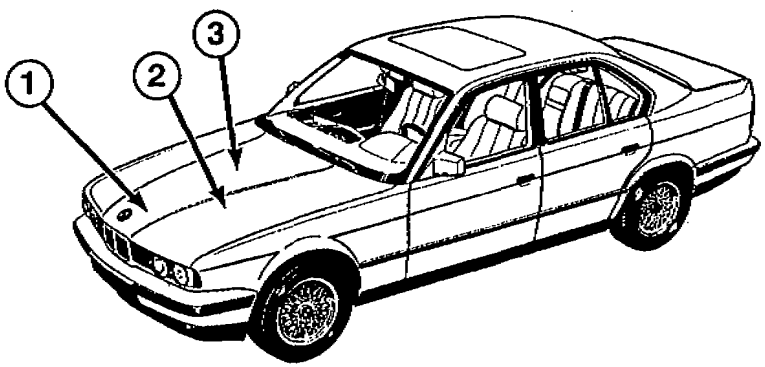


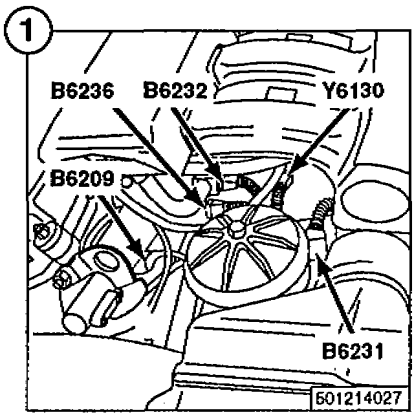
3 S63
ENGINE COOLANT
LEVEL SWITCH

X87

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COMPONENT LOCATION VIEWS





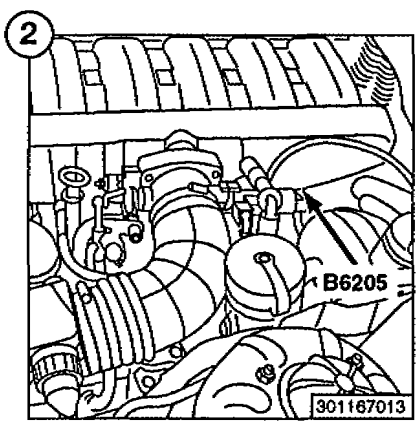
B6209
HALL EFFECT
CAMSHAFT SENSOR

B6231
OIL PRESSURE
SWITCH

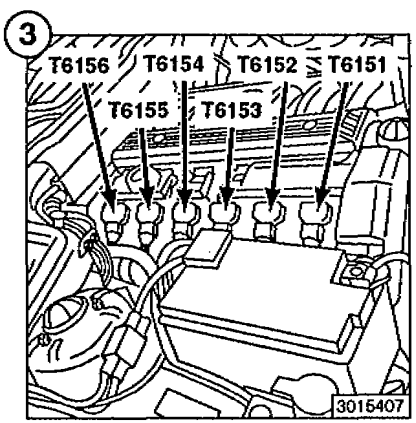
B6232
ENGINE COOLANT
TEMPERATURE
SENSOR

B6236
ENGINE COOLANT
TEMPERATURE
SENSOR

Y6130
IDLE SPEED
CONTROL VALVE



B6205
INTAKE
AIR TEMPERATURE
SENSOR



T6151
CYL. 1 IGNITION
COIL

T6152
CYL. 2 IGNITION
COIL

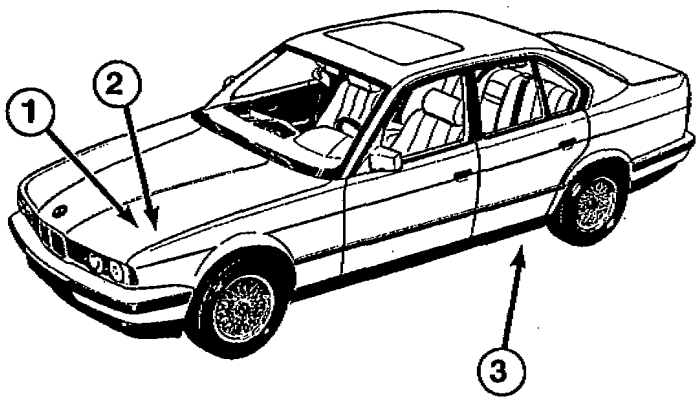
T6153
CYL. 3 IGNITION
COIL

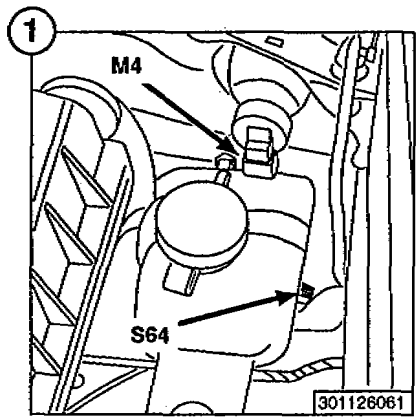
T6154
CYL. 4 IGNITION
COIL

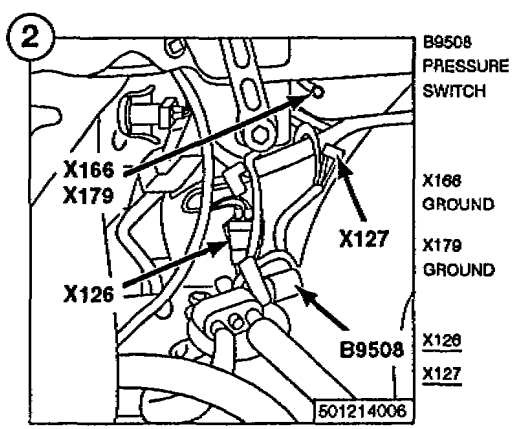
T6155
CYL. 5 IGNITION
COIL

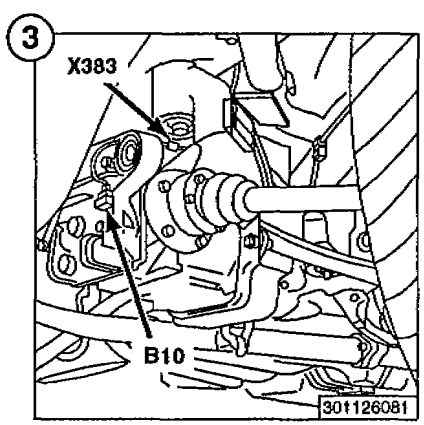
T6156
CYL. 6 IGNITION
COIL

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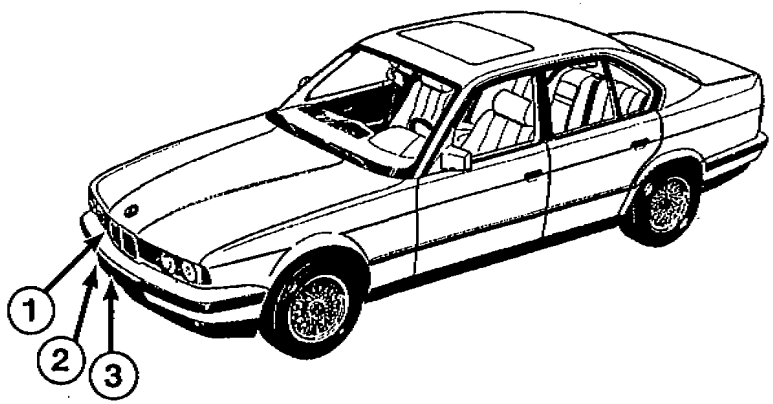


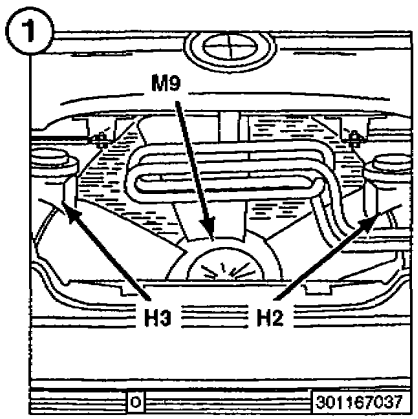




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COMPONENT LOCATION VIEWS

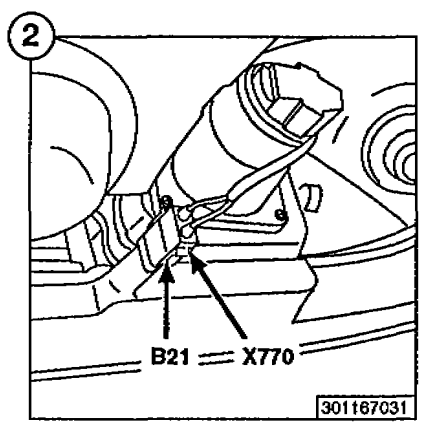




H2
LEFT HORN

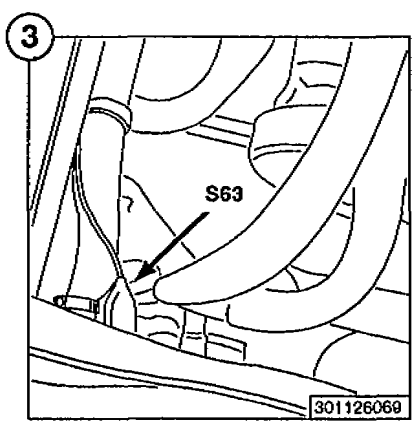
H3
RIGHT HORN

M9
AUXILIARY
FAN MOTOR



B21
ON-BOARD
COMPUTER
TEMPERATURE
SENSOR

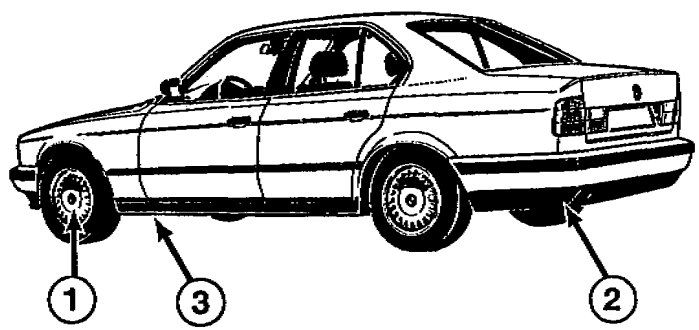
X770

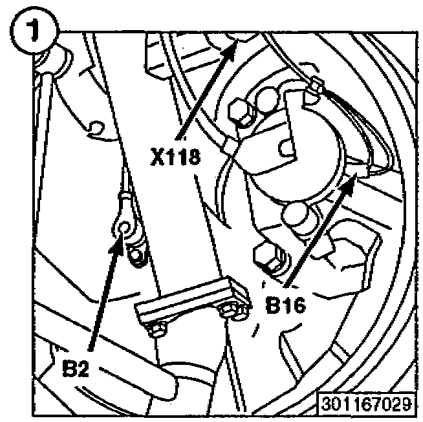


S63
ENGINE COOLANT
LEVEL SWITCH

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COMPONENT LOCATION VIEWS

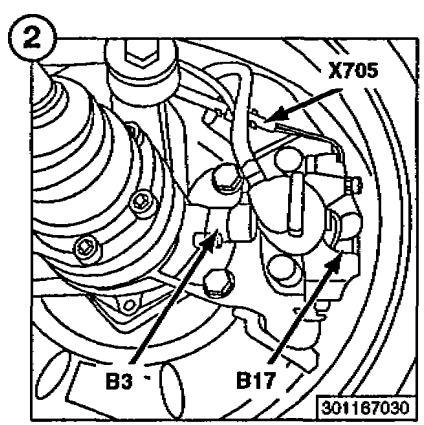




B2
LEFT FRONT
SPEED SENSOR
– ABS

B16
LEFT FRONT
BRAKE PAD
SENSOR

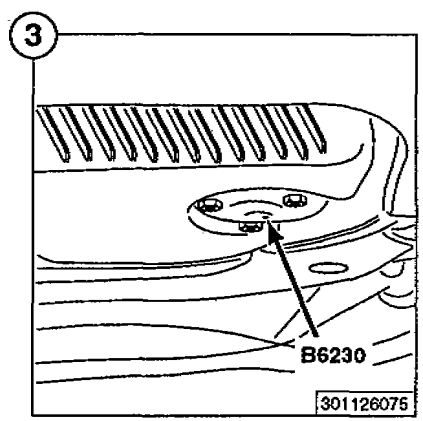
X118



B3
RIGHT REAR
SPEED SENSOR
– ABS

B17
RIGHT REAR
BRAKE PAD
SENSOR

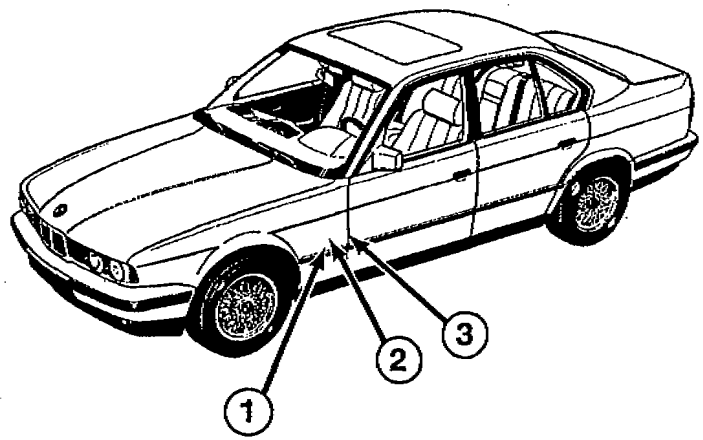
X705

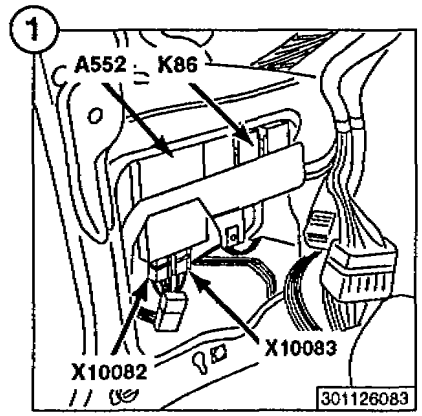


B6230
OIL LEVEL
SENSOR

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COMPONENT LOCATION VIEWS



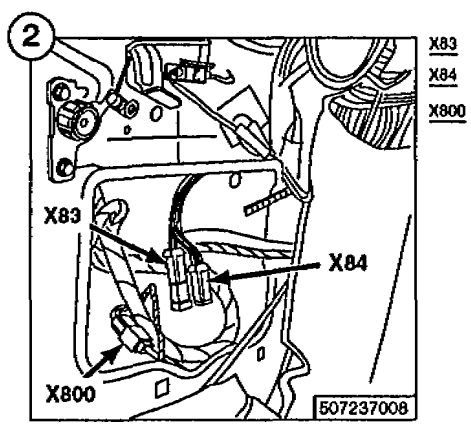


A552
A/C COMPRESSOR CONTROL MODULE

K86
WIDE OPEN THROTTLE CUT-OFF RELAY

X10082

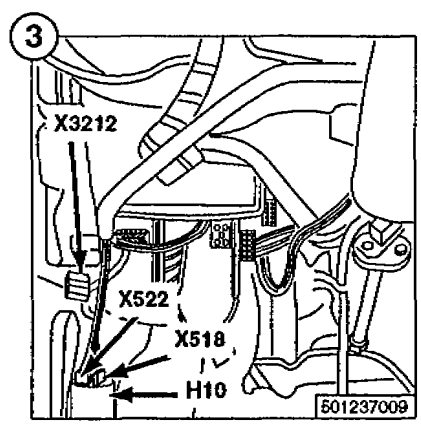
X10083



X83

X84

X800



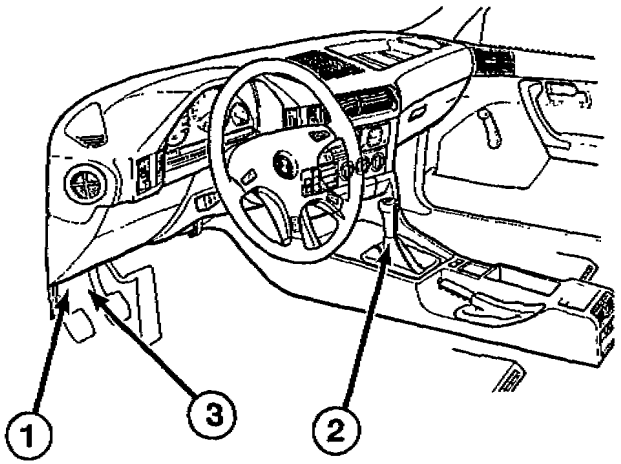
H10
CHIME MODULE

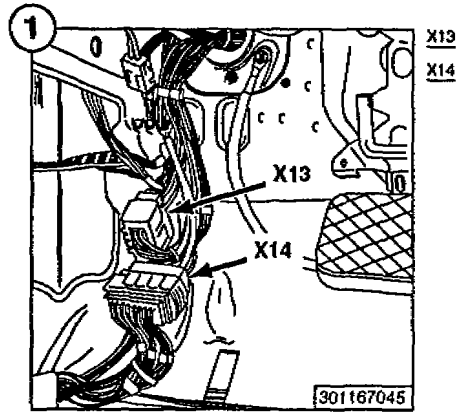
X518

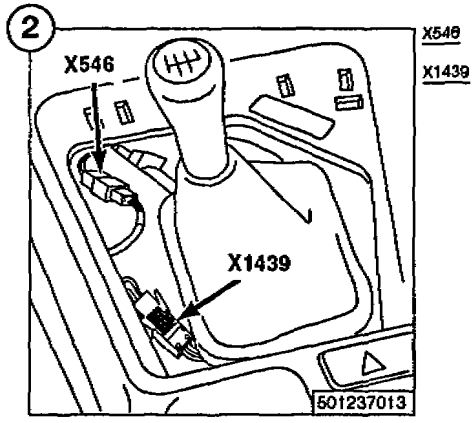
X522

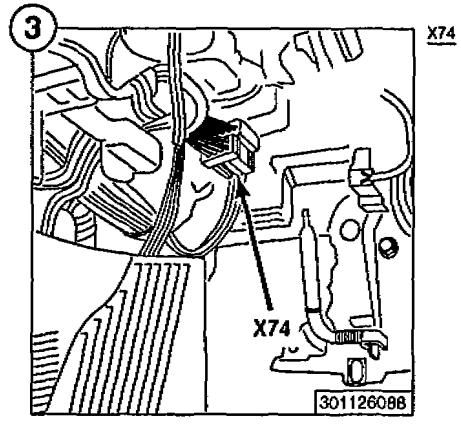
X3212

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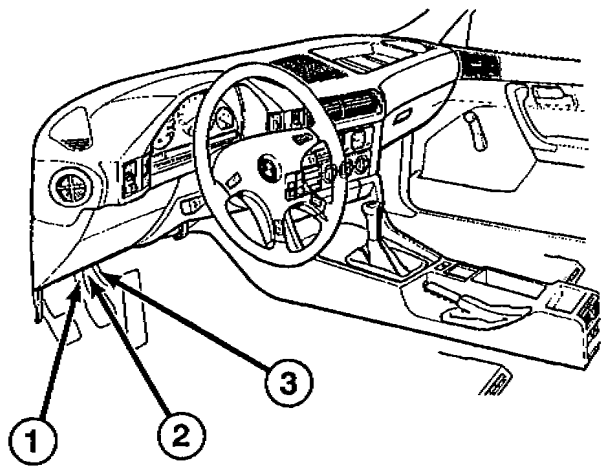


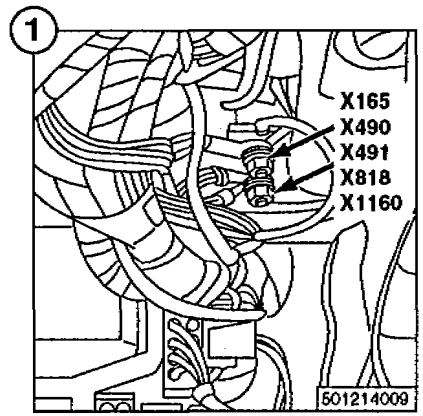




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COMPONENT LOCATION VIEWS





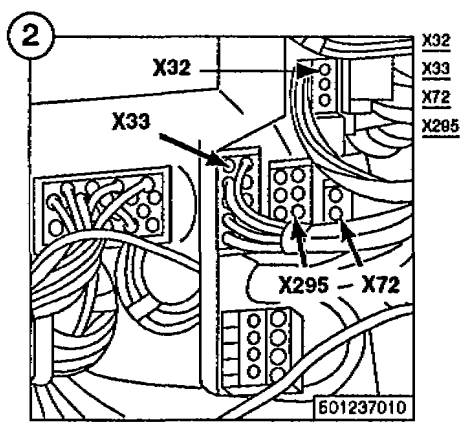
X165 GROUND

X490 GROUND

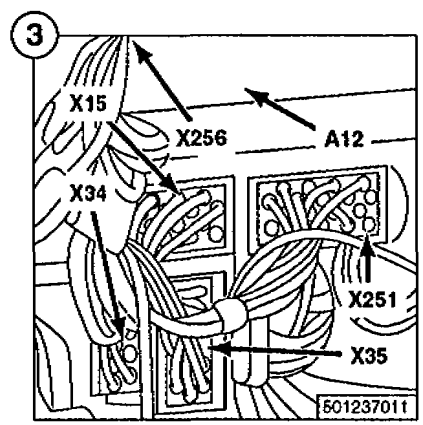
X491 GROUND

X618 GROUND

X1160 GROUND



X32
X33
X72
X295

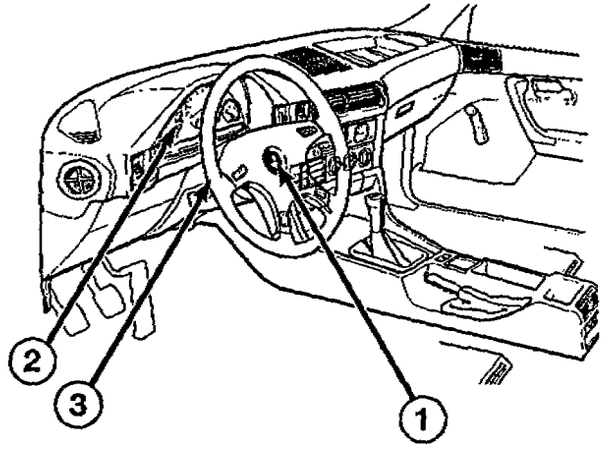


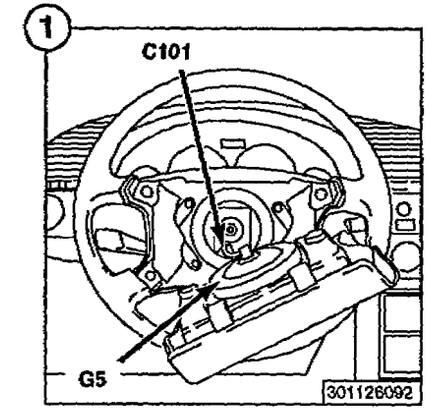
A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE

X15
X34
X35
X251
X256

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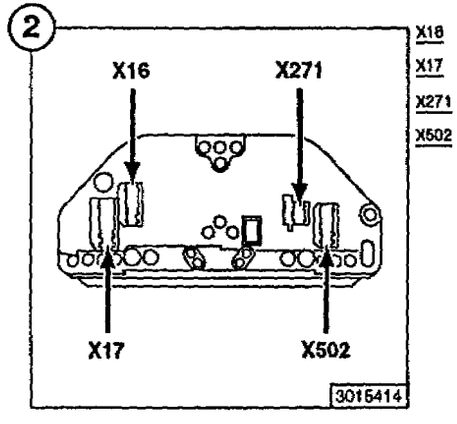
COMPONENT LOCATION VIEWS



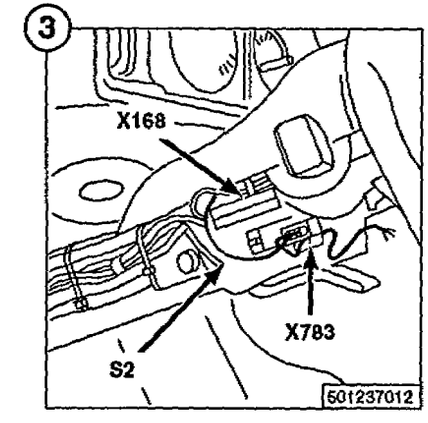


C101
CONTACT RING

G5
DRIVER S
AIR BAG
GENERATOR



X16
X17
X271
X502

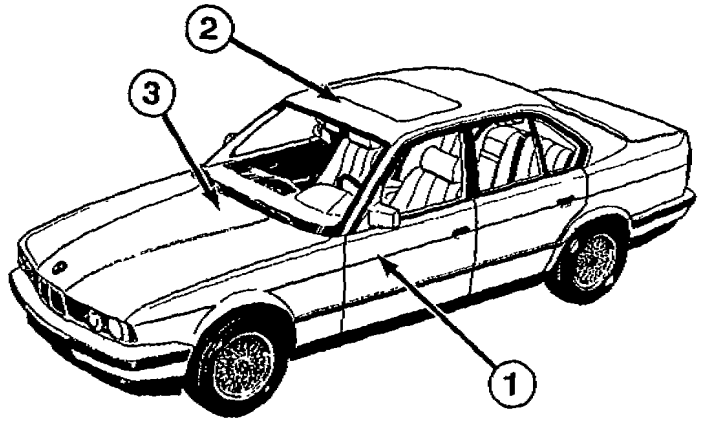


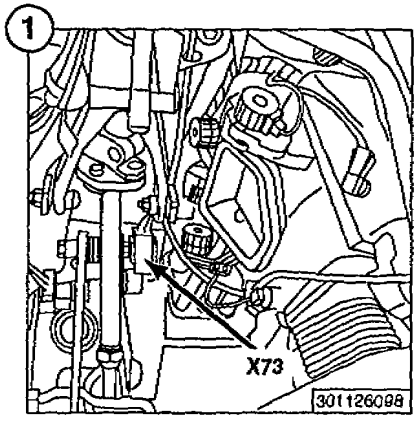
S2
IGNITION
SWITCH

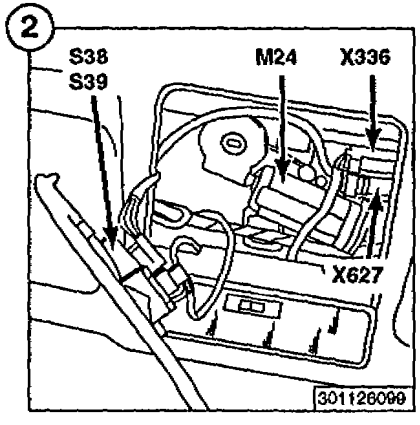
X168
X783

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COMPONENT LOCATION VIEWS





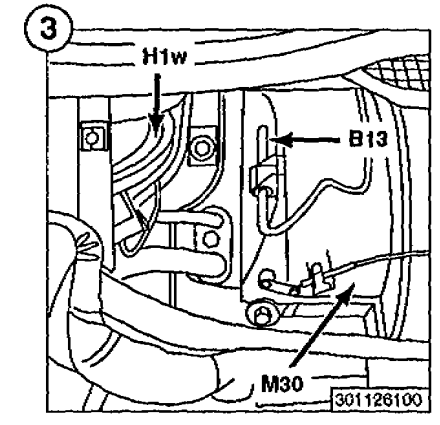


M24
SUNROOF MOTOR

S38
SUNROOF SWITCH

S39
SUNROOF
POSITION
SWITCH

X336
X627

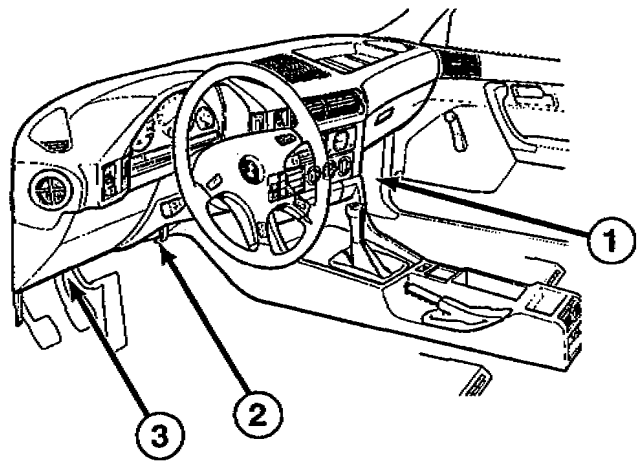


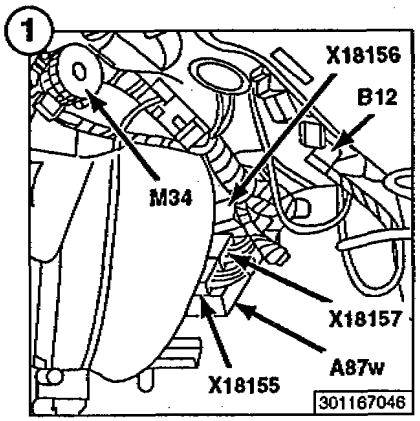
B13
OUTSIDE
TEMPERATURE
SENSOR

H1w
ANTI-THEFT HORN
(ALPINE)

M30
BLOWER MOTOR

cardiagn.com

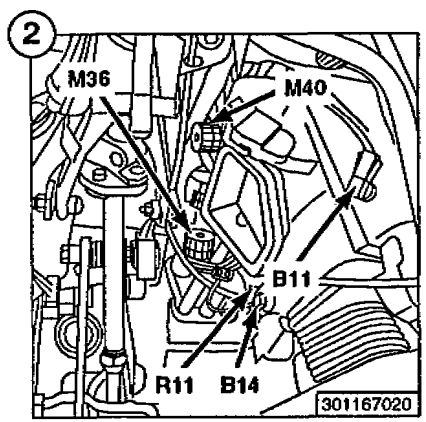




A87w INTEGRATED CLIMATE REGULATION CONTROL MODULE (IHKR/F3) — X18155 X18156 X18157

B12 RH HEAT EXCHANGER TEMPERATURE SENSOR

M34 DASH VENT MIXING FLAP MOTOR



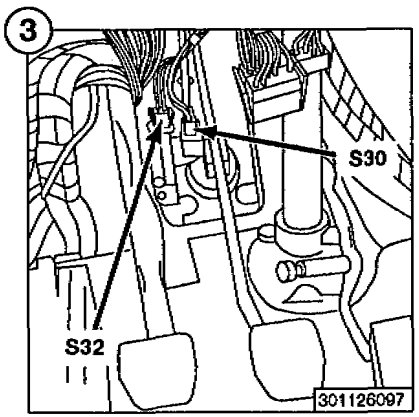
B11 LH HEAT EXCHANGER TEMPERATURE SENSOR

B14 EVAPORATOR TEMPERATURE SENSOR

M36 FRESH AIR FLAP MOTOR

M40 RECIRCULATION FLAP MOTOR

R11 BLOWER RESISTORS

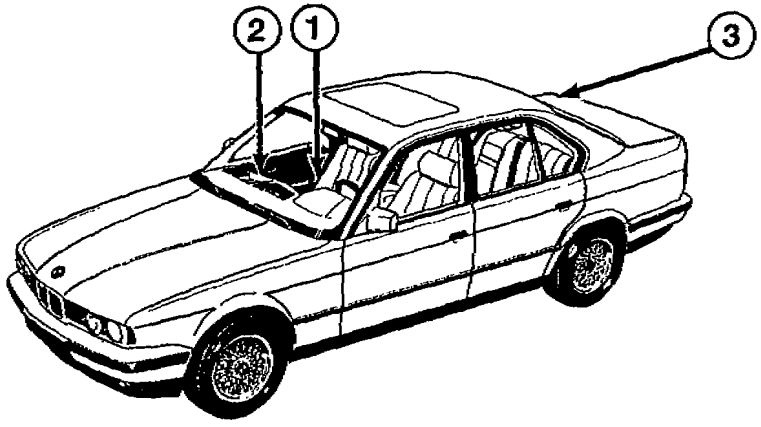


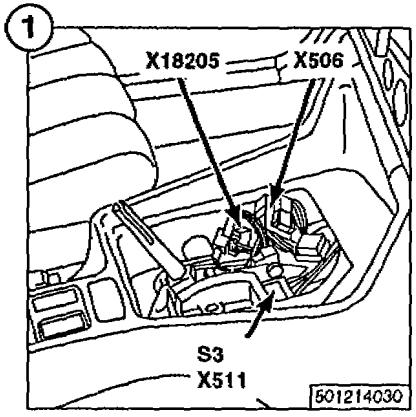
S30 BRAKE LIGHT SWITCH

S32 CLUTCH SWITCH

cardiagn.com

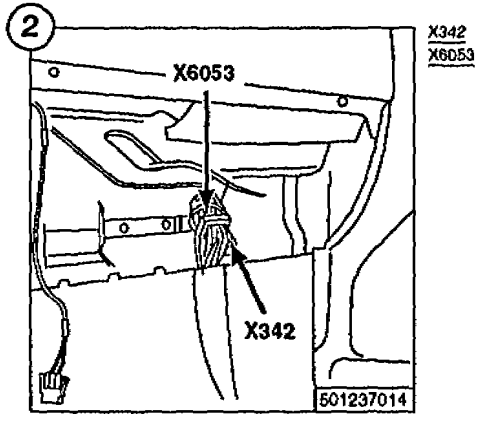
COMPONENT LOCATION VIEWS



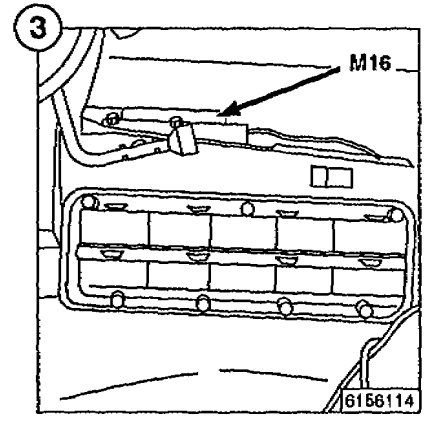


S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH

X506
X511
X18205

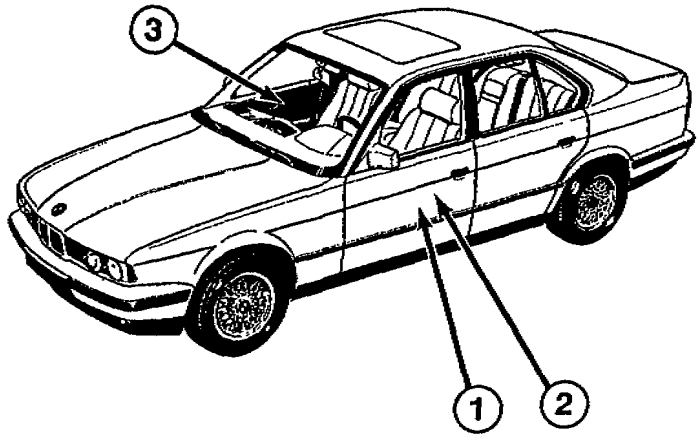


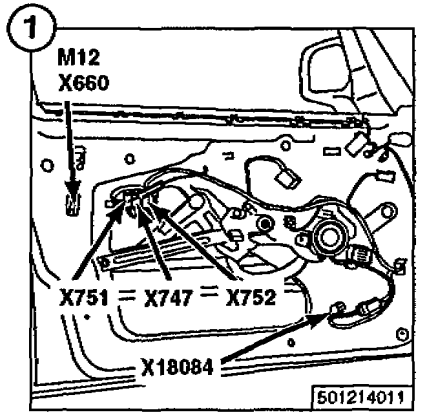
X342
X6053



M16
GAS FILLER
LOCK MOTOR

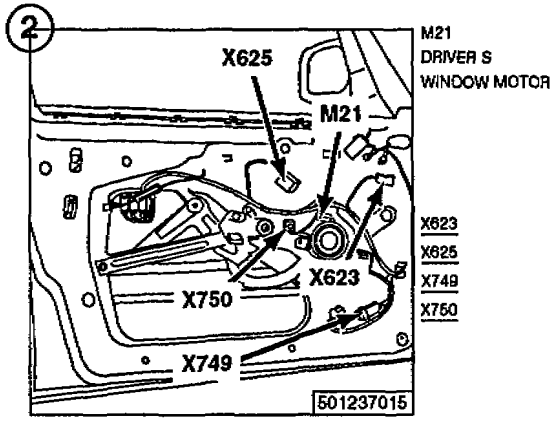
cardiagn.com





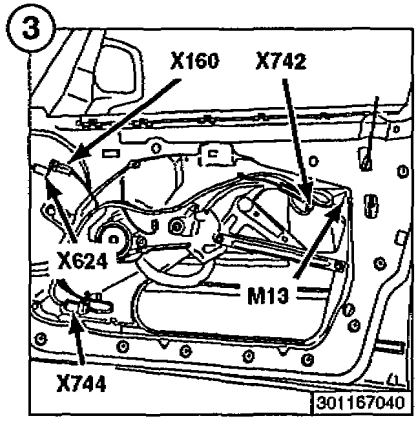
M12
DRIVER S
DOOR LOCK
MOTOR

X660
X747
X751
X752
X18084



M21
DRIVER S
WINDOW MOTOR

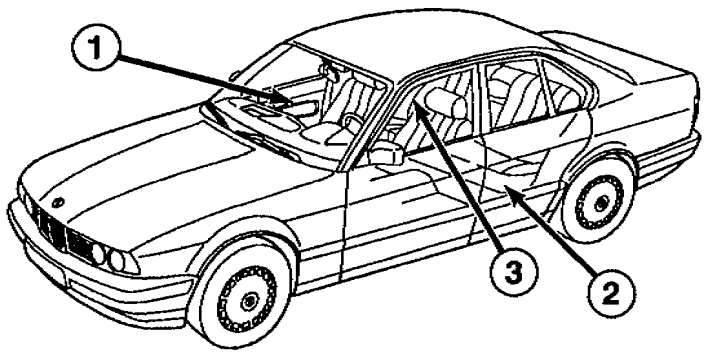
X623
X625
X749
X750

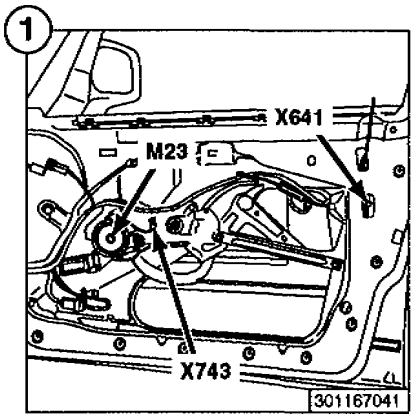


M13
PASSENGER S
DOOR LOCK
MOTOR

X160
X624
X742
X744

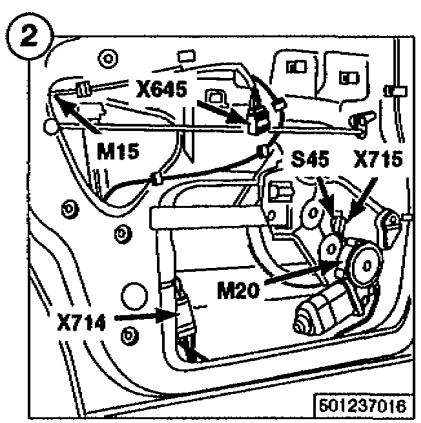
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M23
PASSENGER'S
WINDOW MOTOR

X641
X743

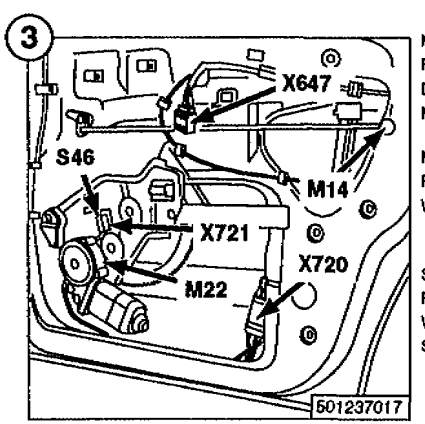


M15
LEFT REAR
DOOR LOCK
MOTOR

X645
X714
X715

M20
LEFT REAR
WINDOW MOTOR

S45
LEFT REAR
WINDOW LIMIT
SWITCH



M14
RIGHT REAR
DOOR LOCK
MOTOR

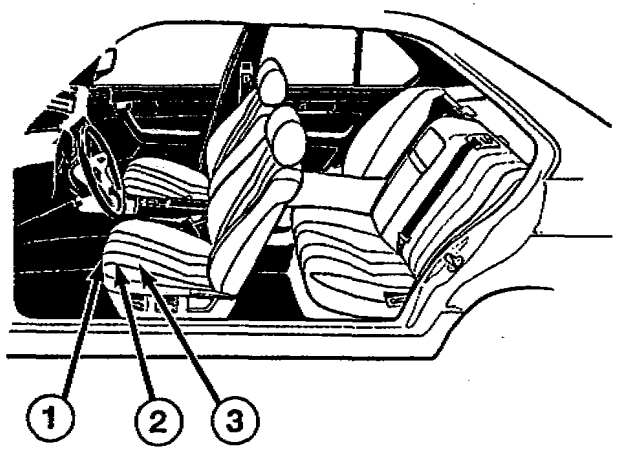
X647
X720
X721

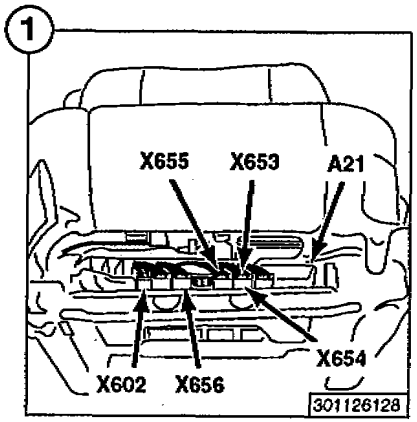
M22
RIGHT REAR
WINDOW MOTOR

S46
RIGHT REAR
WINDOW LIMIT
SWITCH

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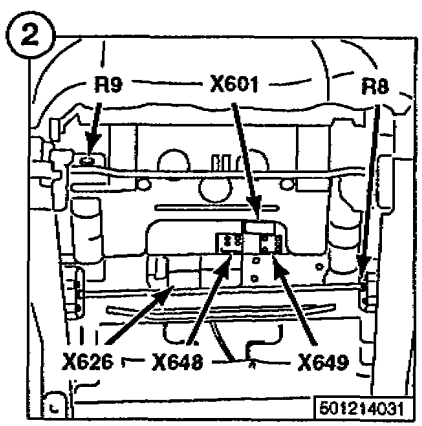
COMPONENT LOCATION VIEWS





A21
SEAT/MIRROR
MEMORY
CONTROL MODULE

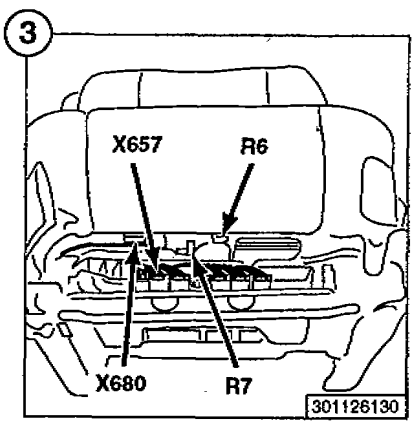
X602
X653
X654
X655
X656



R8
SEAT CUSHION
REAR HEIGHT
POTENTIOMETER

R9
SEAT CUSHION
MOVEMENT
POTENTIOMETER

X601
X626
X648
X649

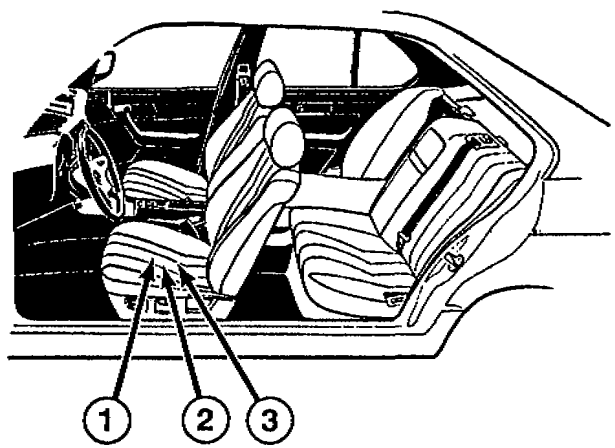


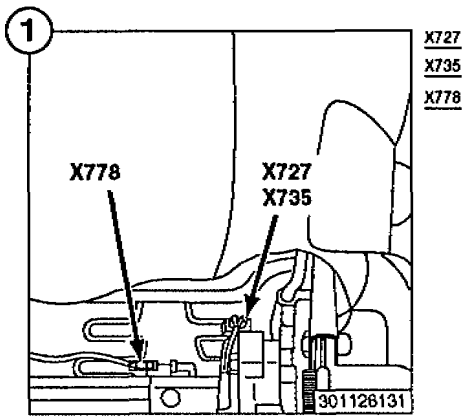
R6
SEAT HEIGHT
POTENTIOMETER

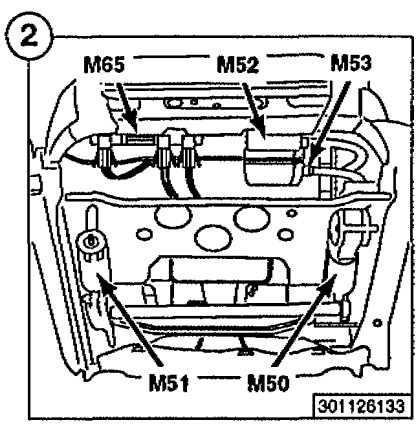
R7
SEATBACK
POTENTIOMETER

X657
X680

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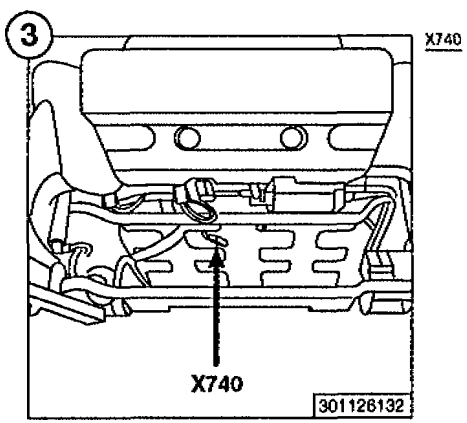
M50
DRIVER'S
SEAT CUSHION
TILT MOTOR

M51
DRIVER'S SEAT
MOVEMENT MOTOR

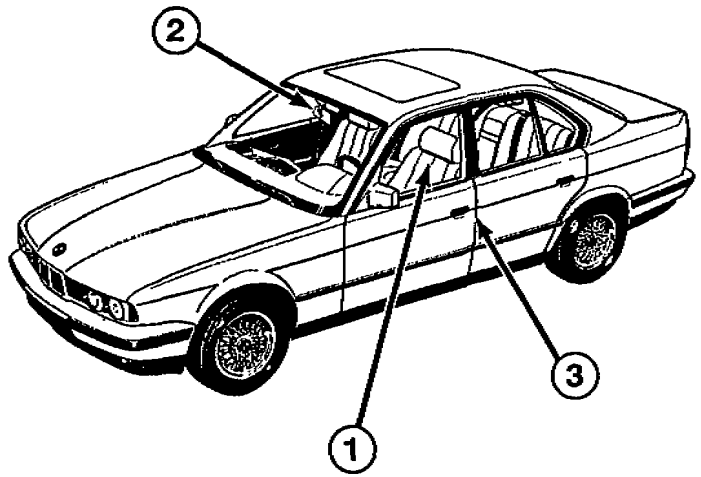
M52
DRIVER'S SEAT
HEIGHT MOTOR

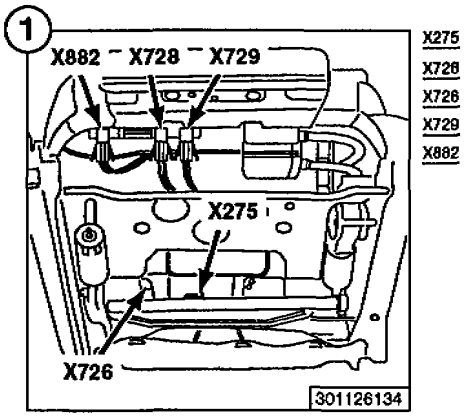
M53
DRIVER'S
SEATBACK
RECLINER MOTOR

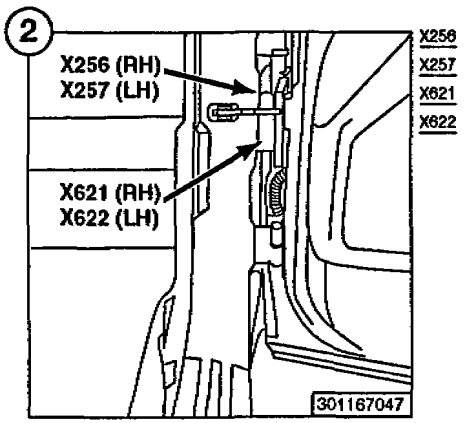
M65
DRIVER'S
THIGH SUPPORT
MOTOR

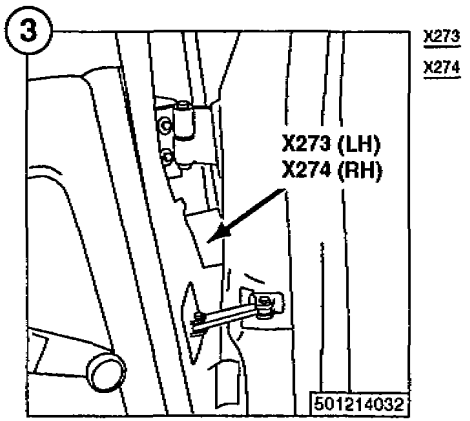


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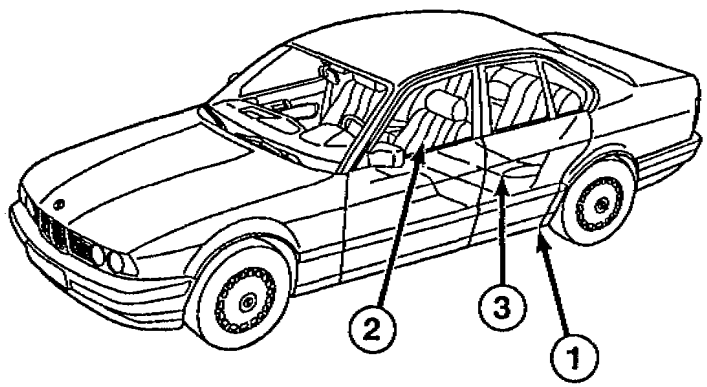


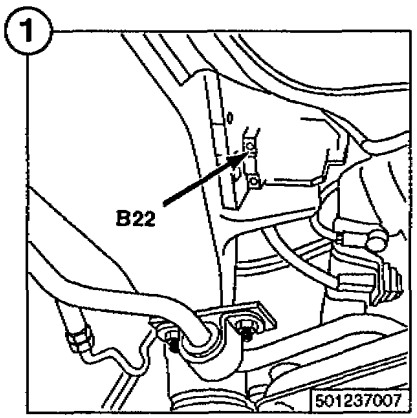




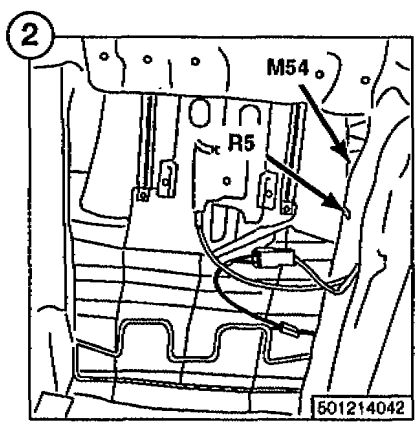
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COMPONENT LOCATION VIEWS



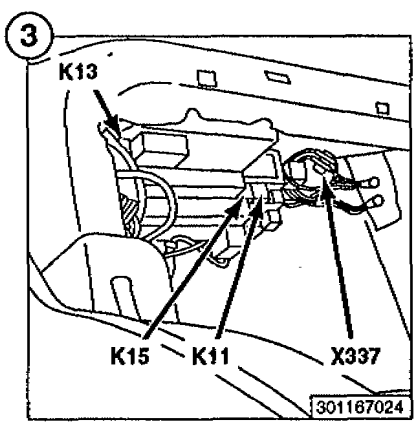


B22
WHEEL CAMBER
CONTROL MODULE



M54
DRIVER'S
HEADREST MOTOR

R5
HEADREST
POTENTIOMETER



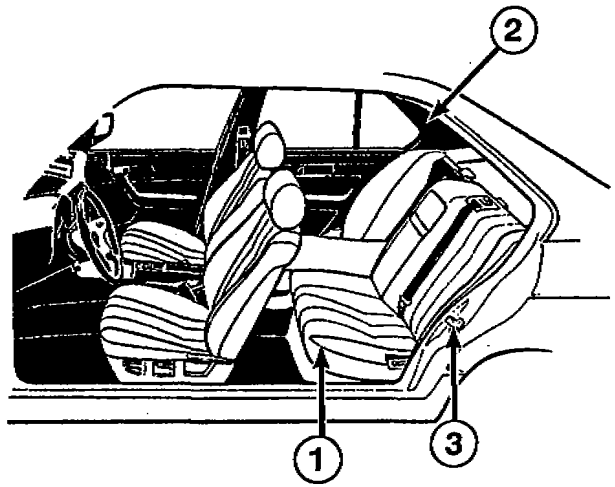
K11
WIPER RELAY

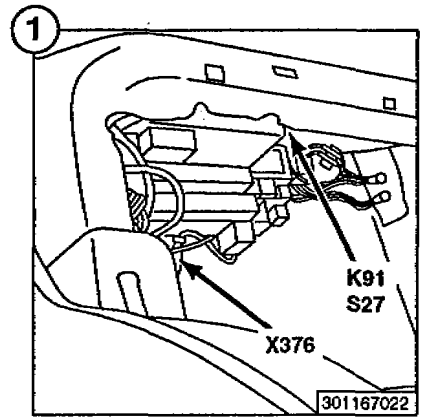
K13
REAR DEFOGGER
RELAY

K15
ELECTRIC
POWER
PROTECTION
RELAY
X337

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COMPONENT LOCATION VIEWS

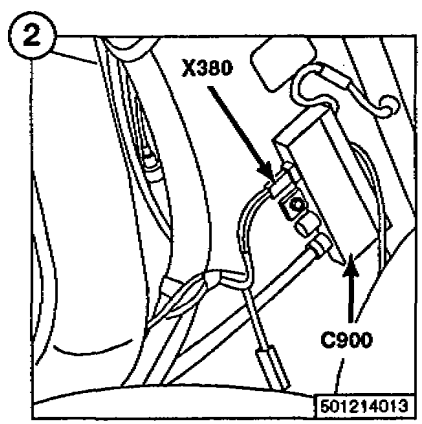




K91
ON-BOARD COMPUTER HORN RELAY

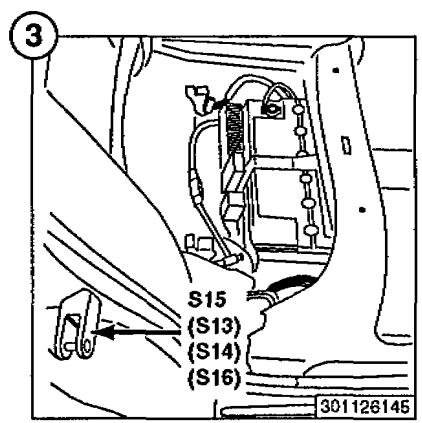
S27
INERTIA SWITCH

X376



C900
SUPPRESSION FILTER

X380



S13
PASSENGER'S DOOR JAMB SWITCH

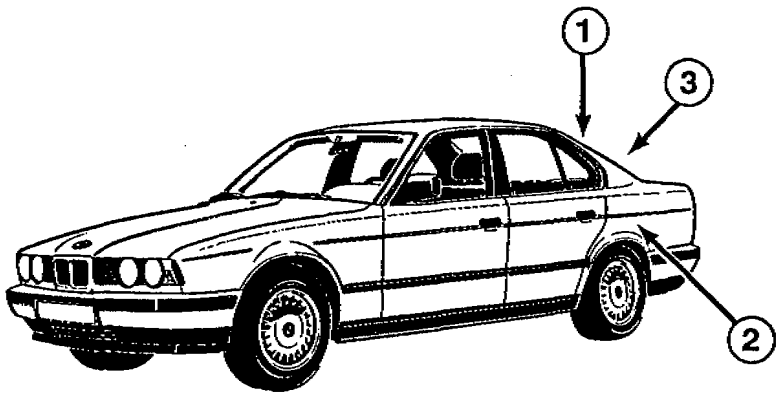
S14
DRIVER'S DOOR JAMB SWITCH

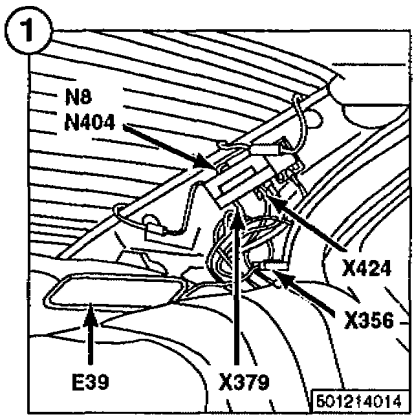
S15
REAR RIGHT DOOR JAMB SWITCH

S16
LEFT REAR DOOR JAMB SWITCH

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COMPONENT LOCATION VIEWS



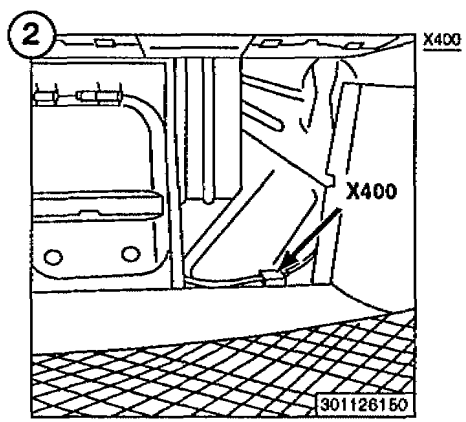


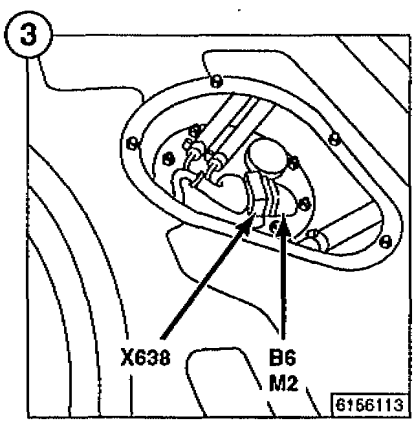
E39 — LEFT REAR INTERIOR LIGHT — X379

N8 — ANTENNA AMPLIFIER AM/FM — X424

N404 — DIVERSITY

X356





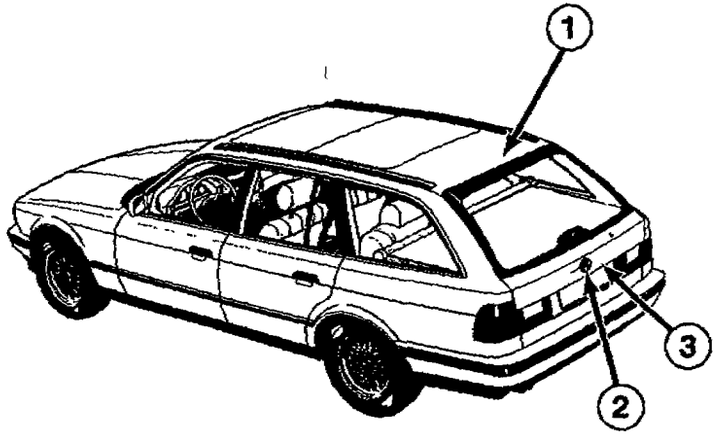
B6 — FUEL LEVEL SENSOR

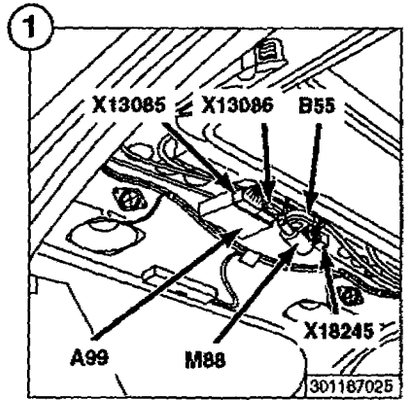
M2 — FUEL PUMP

X638

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COMPONENT LOCATION VIEWS





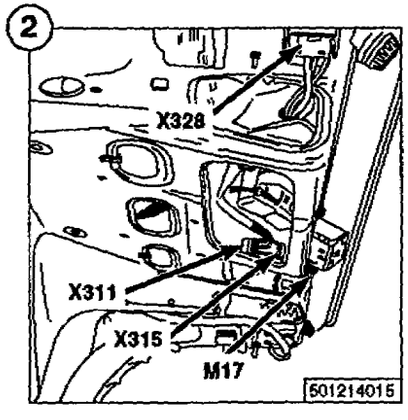
A99
DOUBLE PANEL
POWER SUNROOF
CONTROL MODULE

X18245

B55
DOUBLE PANEL
POWER SUN ROOF
SENSOR II

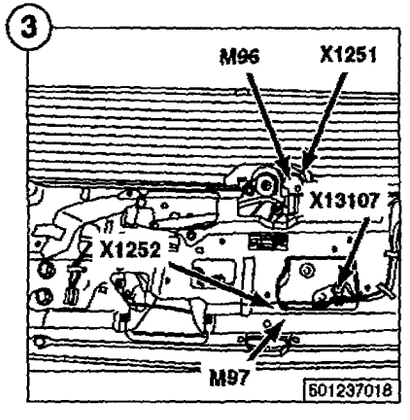
M88
MOTOR DRIVE II
DOUBLE PANEL
POWER SUNROOF

X13085
X13086



M17
TRUNK LOCK
MOTOR

X311
X315
X326



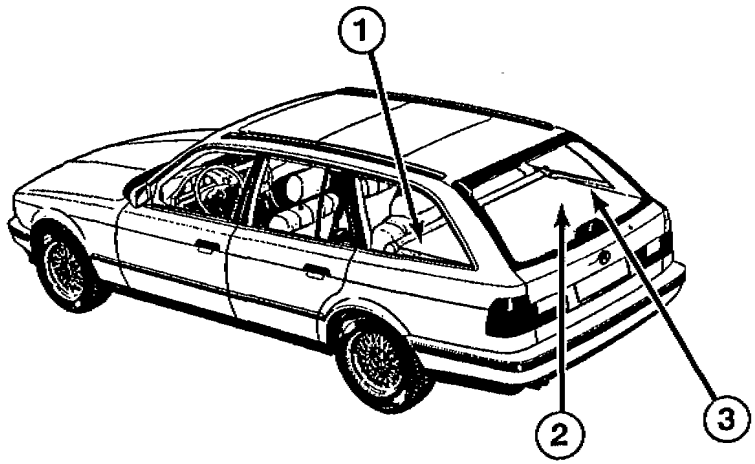
M96
REAR WINDOW
MOTOR

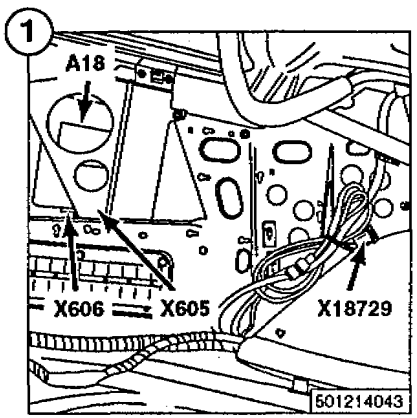
M97
LIFT GATE MOTOR

X1251
X1252
X13107

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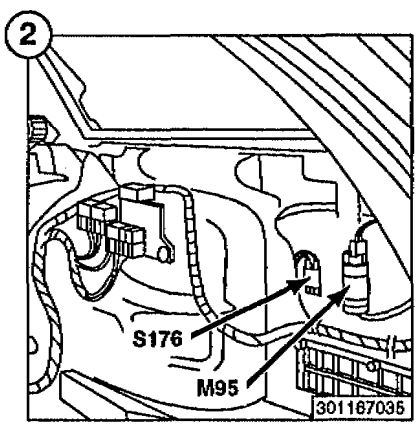
COMPONENT LOCATION VIEWS





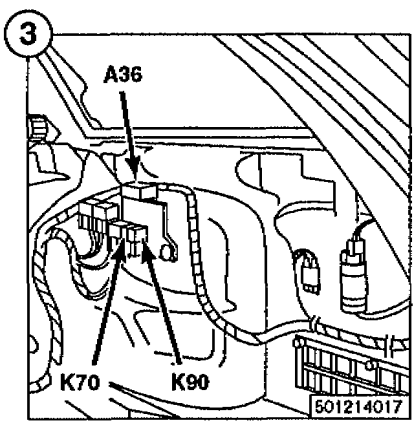
A18
HIFI AMPLIFIER

X605
X606
X18729



M95
REAR WINDOW
WASHER PUMP

S176
REAR
WIPER/WASHER
FLUID LEVEL
SWITCH



A36
REAR
WIPER/WASHER
INTERVAL
CONTROL MODULE

K70
CENTRAL LOCKING
TRUNK LID
MOTOR RELAY
(ZV)

K90
WINDOW MOTOR
RELAY

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SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X181-X189	FRONT	8000.0-03
X191-X193	FRONT	8000.0-03
X195-X201	FRONT	8000.0-03
X203-X207	FRONT	8000.0-03
X209	FRONT	8000.0-03
X210	FRONT	8000.0-03
X212	FRONT	8000.0-03
X213	FRONT	8000.0-03
X215	FRONT	8000.0-03
X217	FRONT	8000.0-03
X222	FRONT	8000.0-03
X223	FRONT	8000.0-03
X225	FRONT	8000.0-03
X228	FRONT	8000.0-03
X241	FRONT	8000.0-03
X245	FRONT	8000.0-03
X246	FRONT	8000.0-03
X276	FRONT	8000.0-03
X282	REAR	8000.0-05
X414	REAR	8000.0-05
X426	REAR	8000.0-05
X429	REAR	8000.0-05
X431	REAR	8000.0-05
X433	REAR	8000.0-05
X435-X437	REAR	8000.0-05
X441-X445	REAR	8000.0-05
X448-X451	REAR	8000.0-05
X455-X470	REAR	8000.0-05
X475	REAR	8000.0-05
X479	REAR	8000.0-05
X480	INSTRUMENT	8000.0-04
X481	REAR	8000.0-05
X488	REAR	8000.0-05
X489	REAR	8000.0-05
X557	INSTRUMENT	8000.0-04
X559	INSTRUMENT	8000.0-04
X561-X564	INSTRUMENT	8000.0-04
X571-X573	INSTRUMENT	8000.0-04
X575-X577	INSTRUMENT	8000.0-04
X579-X584	INSTRUMENT	8000.0-04
X833	REAR	8000.0-05
X852-X855	IHKA	8000.0-06
X857-X859	IHKA	8000.0-06
X888	INSTRUMENT	8000.0-04
X911	REAR	8000.0-05
X994	FRONT	8000.0-03
X1017	FRONT	8000.0-03
X1022	FRONT	8000.0-03
X1023	FRONT	8000.0-03
X1029	FRONT	8000.0-03
X1033	FRONT	8000.0-03
X1036	FRONT	8000.0-03
X1043	FRONT	8000.0-03
X1047	FRONT	8000.0-03
X1152	FRONT	8000.0-03
X1092-X1095	FRONT	8000.0-03

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SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X1149	FRONT	8000.0-03
X1159	FRONT	8000.0-03
X1159	INSTRUMENT	8000.0-04
X1194	FRONT	8000.0-03
X1218	INSTRUMENT	8000.0-04
X1224	REAR	8000.0-05
X1225	INSTRUMENT	8000.0-04
X1226	REAR	8000.0-05
X1228	REAR	8000.0-05
X1232	INSTRUMENT	8000.0-04
X1256-X1258	REAR	8000.0-05
X1294	REAR	8000.0-05
X1362	REAR	8000.0-05
X1366	REAR	8000.0-05
X1367	REAR	8000.0-05
X1373	REAR	8000.0-05
X1394	FRONT	8000.0-03
X1399	FRONT	8000.0-03
X1410	INSTRUMENT	8000.0-04
X1416-X1419	INSTRUMENT	8000.0-04
X1421-X1423	INSTRUMENT	8000.0-04
X1428	INSTRUMENT	8000.0-04
X1438	INSTRUMENT	8000.0-04
X1471-X1473	INSTRUMENT	8000.0-04
X1479	INSTRUMENT	8000.0-04
X6410	M30 ENGINE	8000.0-07
X6410	M50 ENGINE	8000.0-09
X6411	M50 ENGINE	8000.0-09
X6420	M50 ENGINE	8000.0-09
X6449	M5 ENGINE	8000.0-08
X6459	M50 ENGINE	8000.0-09
X6460	M5 ENGINE	8000.0-08
X6460	M50 ENGINE	8000.0-09
X6461	M5 ENGINE	8000.0-08
X6461	M50 ENGINE	8000.0-09
X6463	M5 ENGINE	8000.0-08
X6464	M5 ENGINE	8000.0-08
X6470-X6472	M30 ENGINE	8000.0-07
X6474	M30 ENGINE	8000.0-07
X6475	M50 ENGINE	8000.0-09
X6478	M5 ENGINE	8000.0-08
X6490	M30 ENGINE	8000.0-07
X6491	M50 ENGINE	8000.0-09
X6491	M30 ENGINE	8000.0-07
X6492	M50 ENGINE	8000.0-09
X6800	M30 ENGINE	8000.0-07
X6810	M30 ENGINE	8000.0-07
X6810	M5 ENGINE	8000.0-08
X6810	M50 ENGINE	8000.0-09
X6820	M30 ENGINE	8000.0-07
X6820	M5 ENGINE	8000.0-08
X6820	M50 ENGINE	8000.0-09
X6821	M30 ENGINE	8000.0-07
X6821	M5 ENGINE	8000.0-08
X6821	M50 ENGINE	8000.0-09
X6822	M5 ENGINE	8000.0-08

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SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X6822	M50 ENGINE	8000.0-09
X6823	M5 ENGINE	8000.0-08
X6824	M30 ENGINE	8000.0-07
X6830	M50 ENGINE	8000.0-09
X6831	M5 ENGINE	8000.0-08
X6831	M50 ENGINE	8000.0-09
X6832	M30 ENGINE	8000.0-07
X6835	M5 ENGINE	8000.0-08
X6835	M50 ENGINE	8000.0-09
X6845	M50 ENGINE	8000.0-09
X6846	M50 ENGINE	8000.0-09
X6850	M30 ENGINE	8000.0-07
X6855	M30 ENGINE	8000.0-07
X6860	M50 ENGINE	8000.0-09
X6861	M30 ENGINE	8000.0-07
X6863	M5 ENGINE	8000.0-08
X6863	M50 ENGINE	8000.0-09
X6864	M30 ENGINE	8000.0-07
X6866	M50 ENGINE	8000.0-09
X6867	M30 ENGINE	8000.0-07
X6871	M30 ENGINE	8000.0-07
X6880	M30 ENGINE	8000.0-07
X6880	M50 ENGINE	8000.0-09
X6884	M30 ENGINE	8000.0-07
X6900	M5 ENGINE	8000.0-08
X6900	M50 ENGINE	8000.0-09
X6901	M50 ENGINE	8000.0-09
X6902	M50 ENGINE	8000.0-09
X6903	M50 ENGINE	8000.0-09
X6904	M50 ENGINE	8000.0-09
X6905	M50 ENGINE	8000.0-09
X6906	M50 ENGINE	8000.0-09
X8004	M30 ENGINE	8000.0-07
X8004	M5 ENGINE	8000.0-08
X8004	M50 ENGINE	8000.0-09
X8007	M50 ENGINE	8000.0-09
X8010	M5 ENGINE	8000.0-08
X8010	M50 ENGINE	8000.0-09
X8015	M50 ENGINE	8000.0-09
X8021	M5 ENGINE	8000.0-08
X8022	M50 ENGINE	8000.0-09
X8025	M50 ENGINE	8000.0-09
X8042	M50 ENGINE	8000.0-09
X8051	M5 ENGINE	8000.0-08
X8051	M50 ENGINE	8000.0-09
X8054	M50 ENGINE	8000.0-09
X8065	M50 ENGINE	8000.0-09
X8071	M50 ENGINE	8000.0-09
X8072	M50 ENGINE	8000.0-09
X10021	FRONT	8000.0-03
X10027	FRONT	8000.0-03
X10060	FRONT	8000.0-03
X10080	FRONT	8000.0-03
X10081	FRONT	8000.0-03
X10090	FRONT	8000.0-03
X10091	FRONT	8000.0-03

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SPLICE LOCATION VIEWS

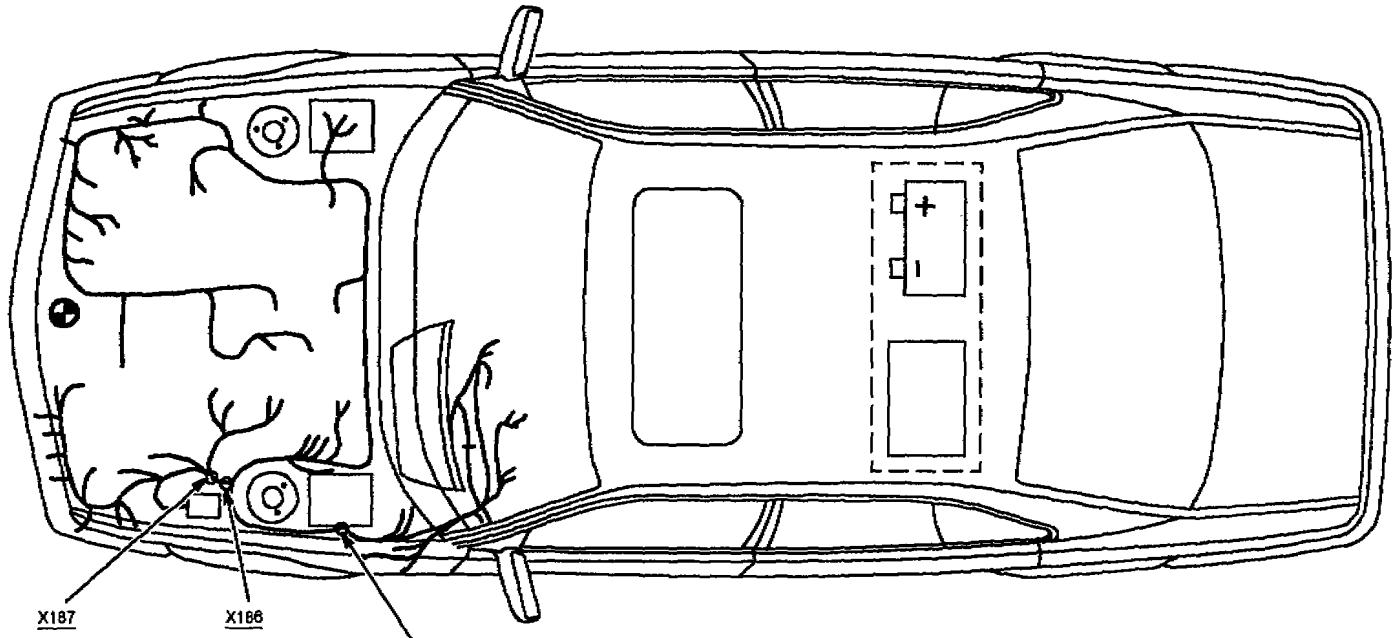
SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X10093	FRONT	8000.0-03
X10197	INSTRUMENT	8000.0-04
X10198	INSTRUMENT	8000.0-04
X11247	FRONT	8000.0-03
X11248	FRONT	8000.0-03
X11249	FRONT	8000.0-03
X11251	FRONT	8000.0-03
X11252	FRONT	8000.0-03
X11262	FRONT	8000.0-03
X13035	REAR	8000.0-05
X13074	REAR	8000.0-05
X13104	REAR	8000.0-05
X13113-X13118	REAR	8000.0-05
X13240	REAR	8000.0-05
X13241	REAR	8000.0-05
X13244-X13246	REAR	8000.0-05
X13248-X13250	REAR	8000.0-05
X13259	REAR	8000.0-05
X13264	REAR	8000.0-05

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SPLICE LOCATION VIEWS

FRONT HARNESS

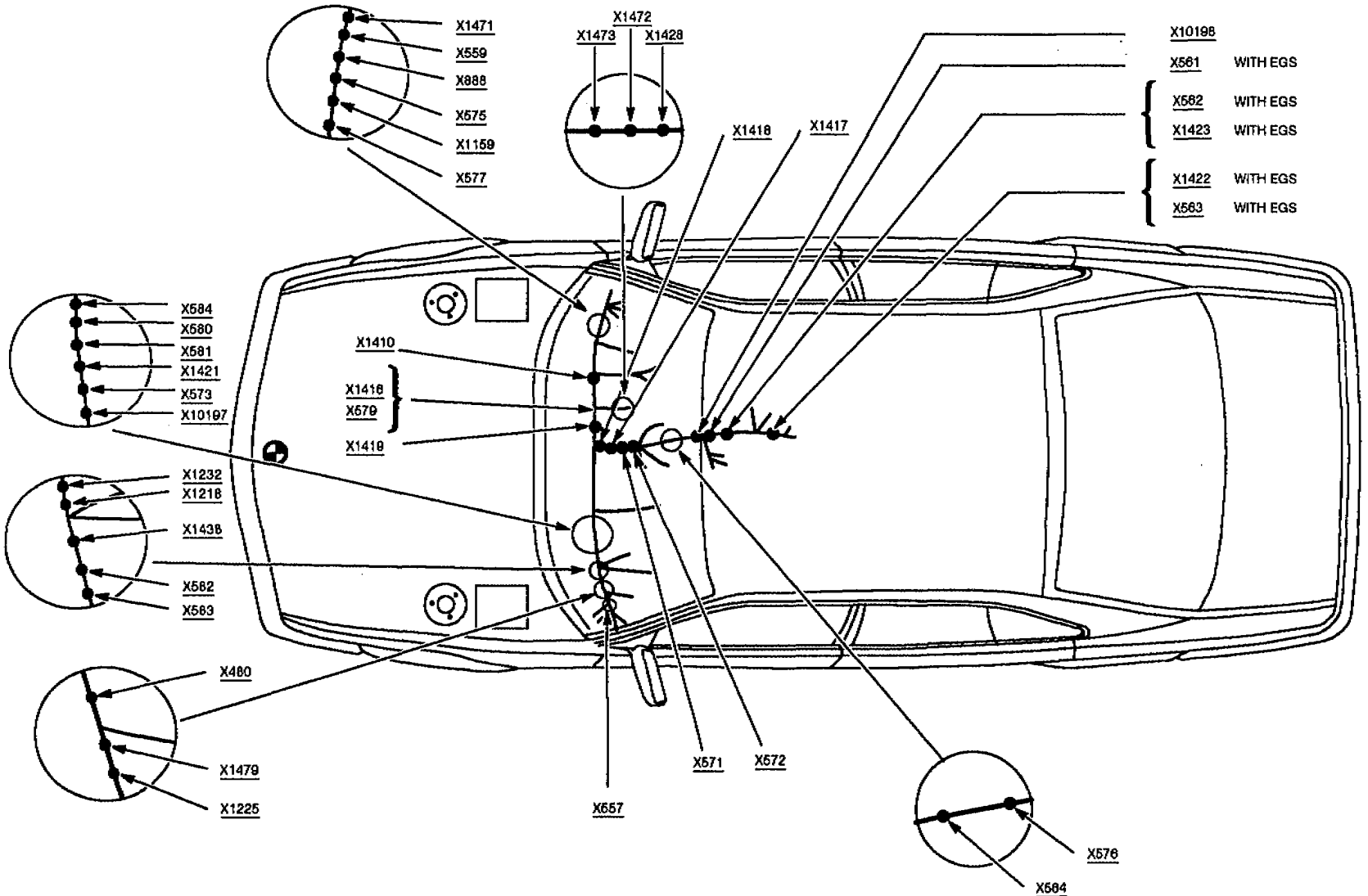


X181	●	X197	●	X212	●	X1017	●	X1149	●	X10091	●		
X182	●	X198	●	X213	●	X1022	●	X1152	●	X10093	●		
X183	●	X199	●	X215	●	X1023	●	X1159	●	X11247	●		
X184	●	X200	●	X222	●	X1029	●	X1194	●	X11248	●		
X185	●	X201	●	X223	●	X1033	●	X1394	●	X11249	●		
X188	●	X203	●	X225	●	X1036	●	X1399	●	X11251	●		
X189	●	X204	●	X228	●	X1043	●	X10021	●	X11252	●		
X191	●	X205	●	X241	●	X1047	●	X10027	●	X11262	●		
X192	●	X206	●	X245	●	X1092	●	X10060	●				
X193	●	X207	●	X246	●	X1093	●	X10060	●				
X195	●	X209	●	X276	●	X1094	●	X10081	●				
X196	●	X210	●	X994	●	X1095	●	X10090	●				

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SPLICE LOCATION VIEWS

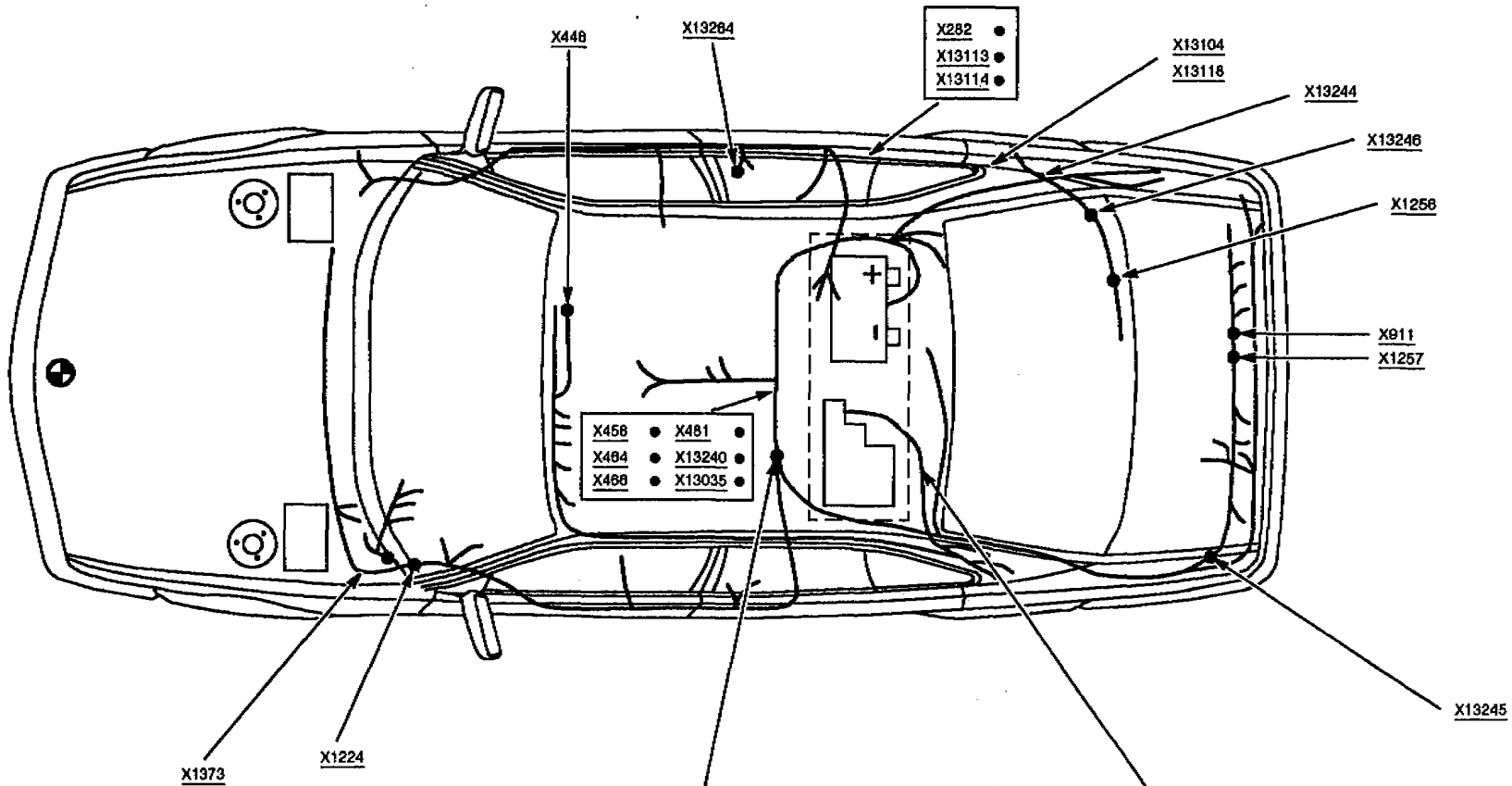
INSTRUMENT HARNESS



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SPLICE LOCATION VIEWS

REAR HARNESS



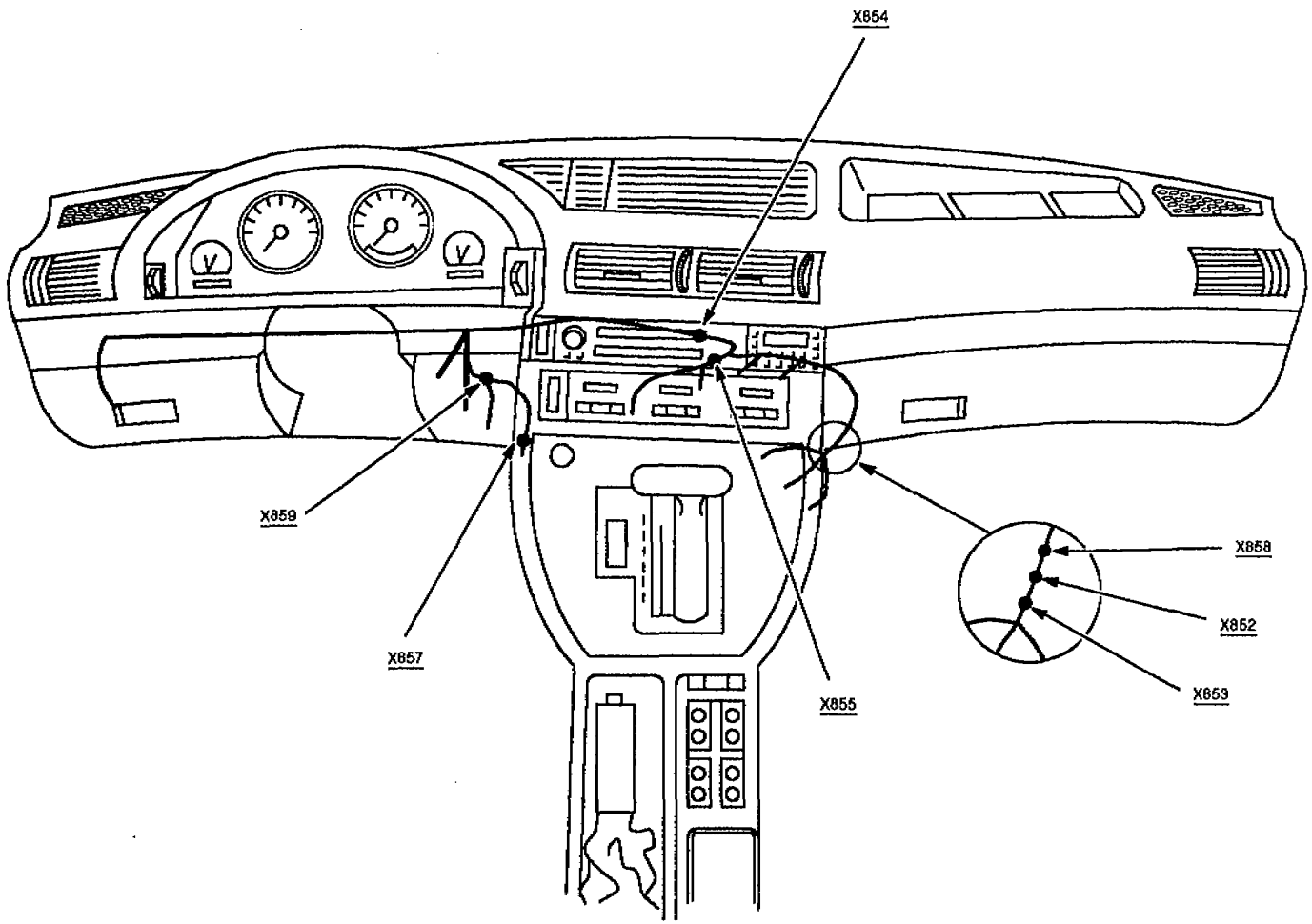
X414	X451	X467	X1226	X13250
X429	X455	X468	X1386	
X433	X456	X470	X1387	
X435	X459	X475	X13074	
X443	X460	X479	X13116	
X444	X461	X486	X13117	
X445	X462	X489	X13241	
X446	X463	X633	X13249	

X426	X485	X13259
X431	X489	
X436	X1226	
X437	X1256	
X441	X1294	
X442	X1382	
X450	X13115	
X457	X13248	

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SPLICE LOCATION VIEWS

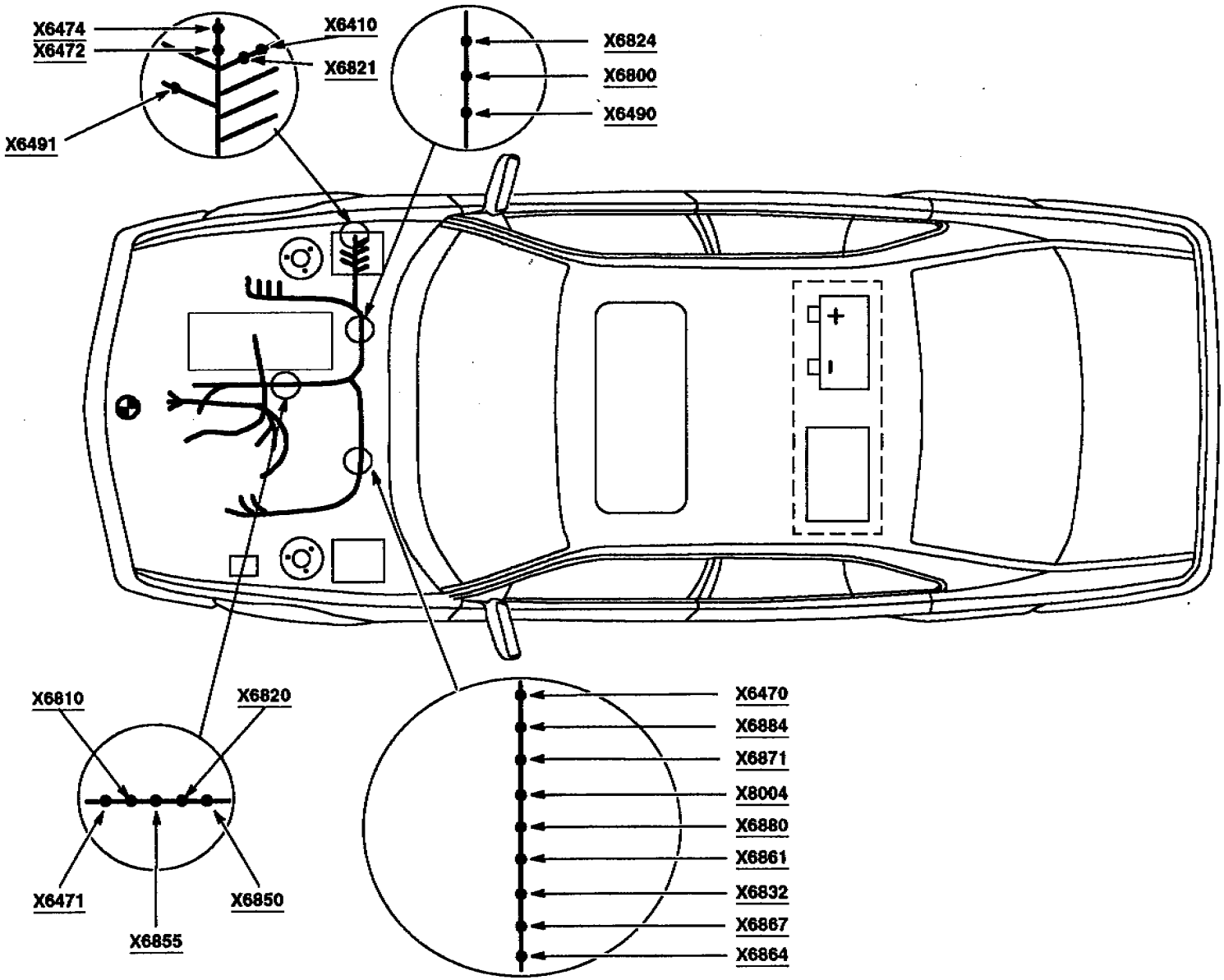
IHKA/IHKR HARNESS



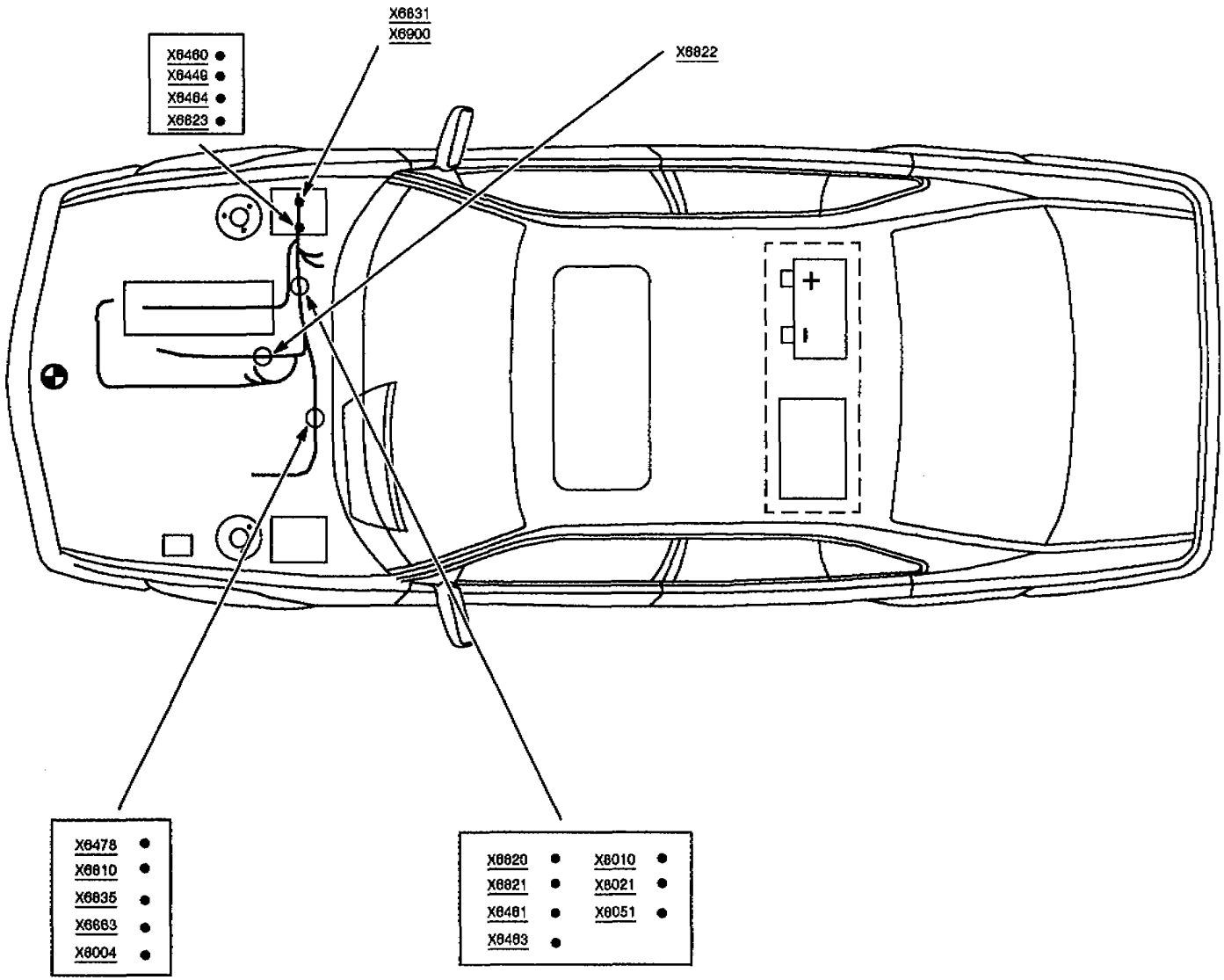
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SPLICE LOCATION VIEWS

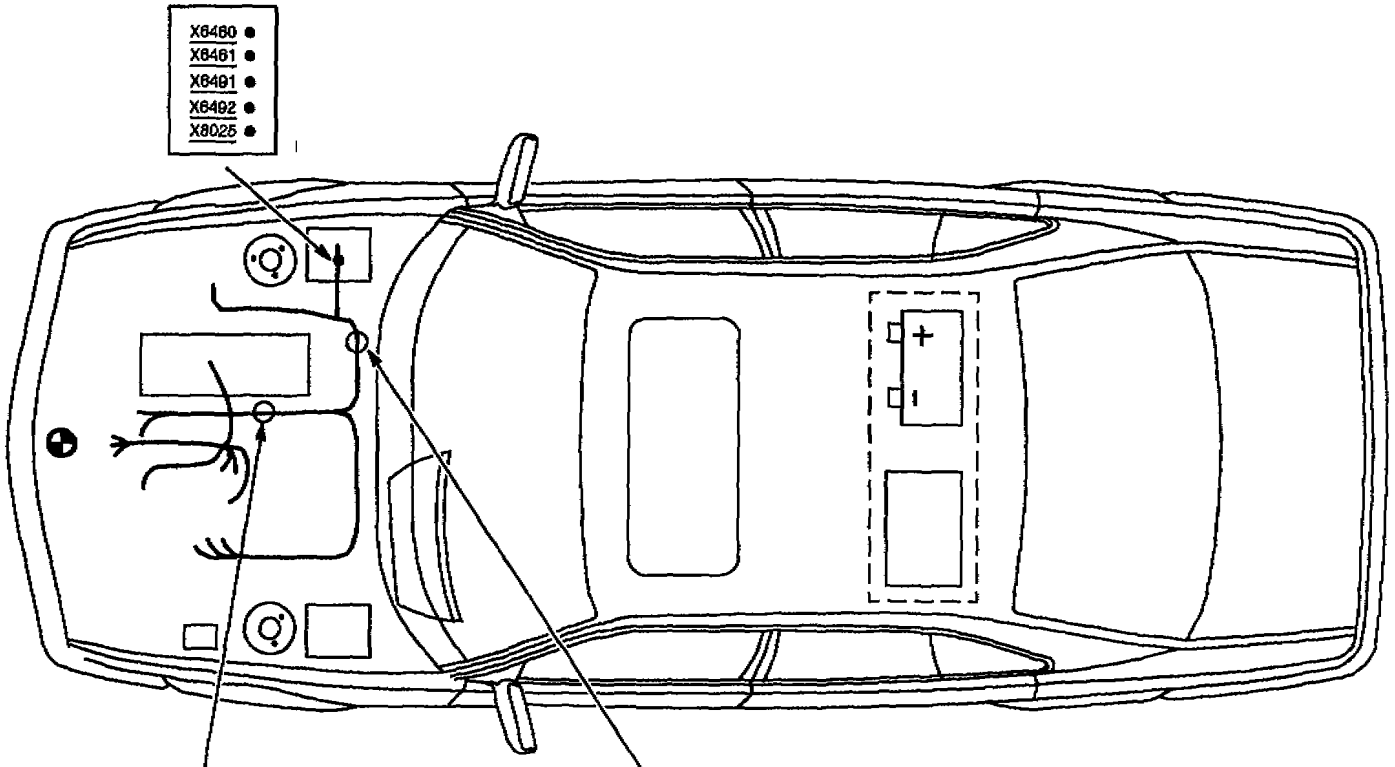
M30 ENGINE HARNESS



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X6492	X6902		
X6820	X6903		
X6831	X6904		
X6900	X6905		
X6901	X6906		

X6410	X6821	X6860	X6010	X6056
X6411	X6822	X6863	X6015	X6071
X6420	X6830	X6866	X6022	X8072
X6459	X6835	X6880	X8042	
X6475	X6845	X8004	X8051	
X6810	X6846	X8007	X8054	

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FIG 1

B550001 00

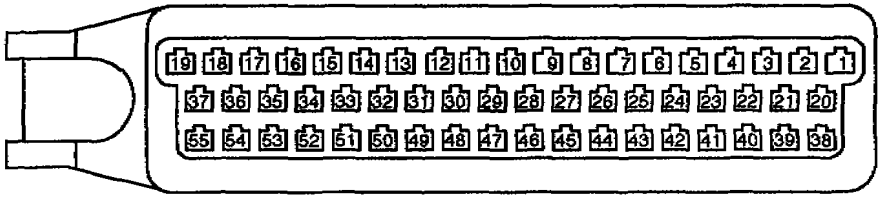


FIG 2

B350001 00

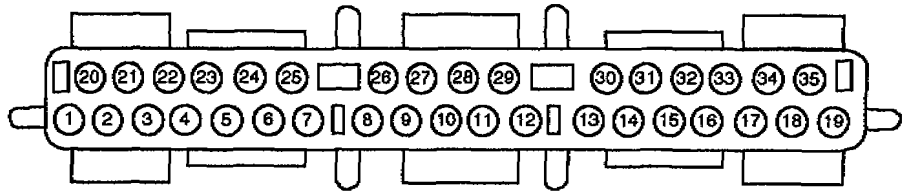


FIG 3

B350002 00

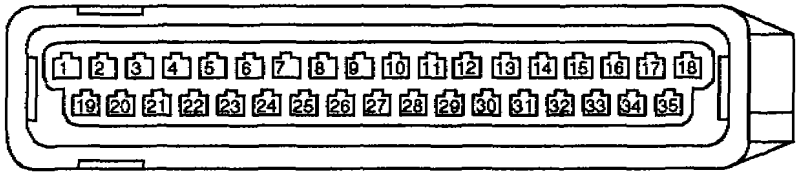
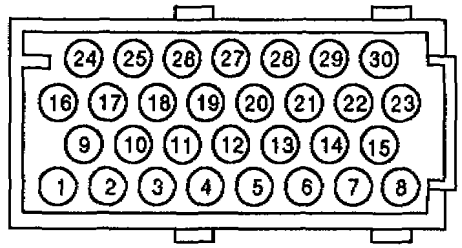


FIG. 4

B300001 00



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CONNECTOR VIEWS

FIG. 1

B260002.00

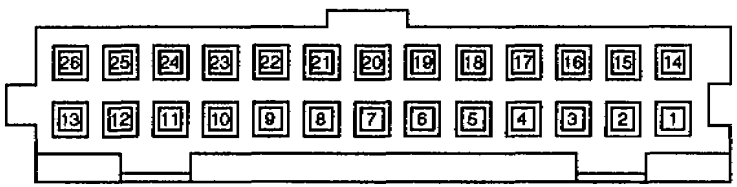


FIG. 2

B120015

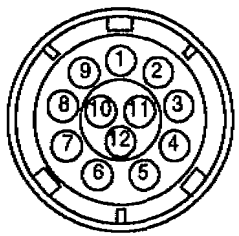


FIG. 3

B210001.00

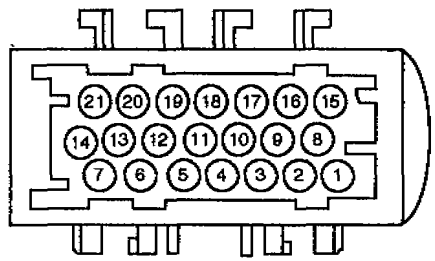


FIG. 4

B240001.00

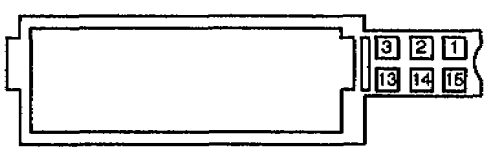


FIG. 5

B080003.00

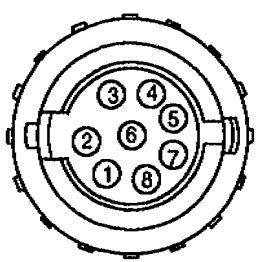
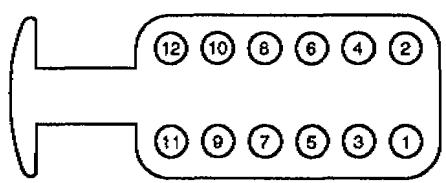


FIG. 6

B120013.00



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FIG. 1

B120002.02

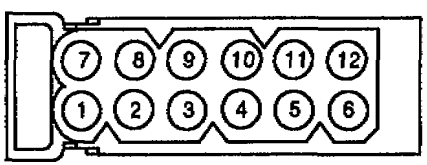


FIG. 2

B060040.00

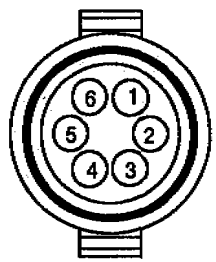


FIG. 3

B090001.00

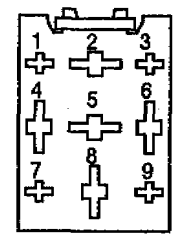


FIG. 4

B050005.00

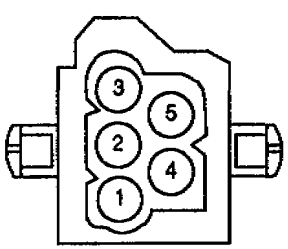


FIG. 5

B030006.00

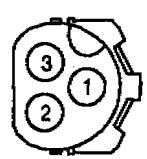
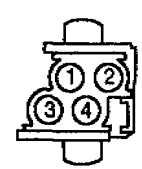


FIG. 6

B040003.00



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CONNECTOR VIEWS

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FIG. 1

B080002.00

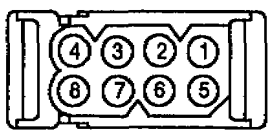


FIG. 2

B050006.00

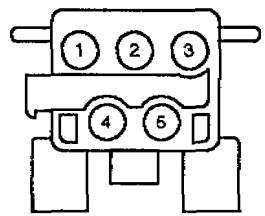


FIG. 3

B030001.00

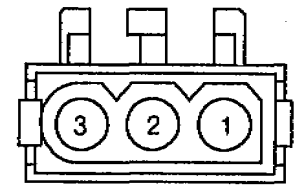


FIG. 4

B250001.00

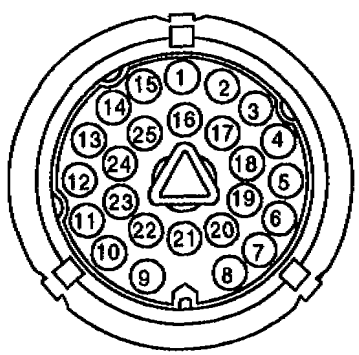


FIG. 5

B030015.10

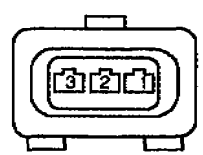
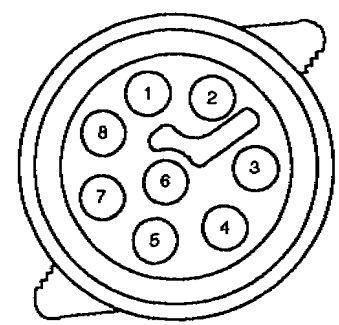


FIG. 6

B080009.00



CONNECTOR VIEWS

FIG. 1

B060017.00

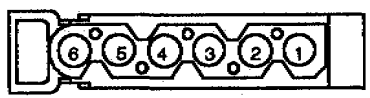


FIG. 2

B170001.00

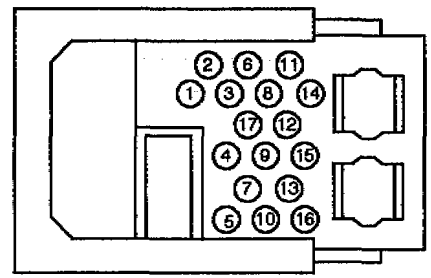


FIG. 3

B030013.00

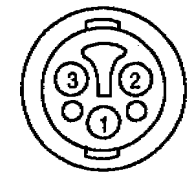


FIG. 4

B030005.00

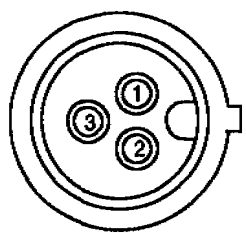


FIG. 5

B030012.00

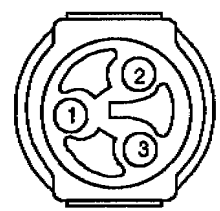
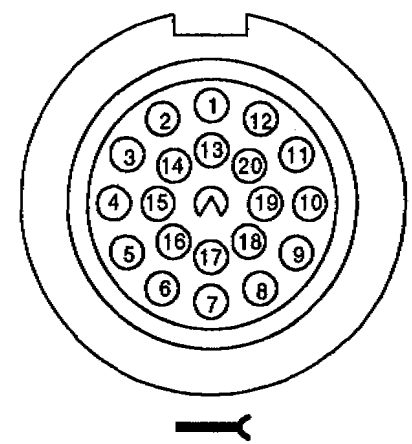


FIG. 6

B200003.01



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CONNECTOR VIEWS

FIG. 1

B040015.00

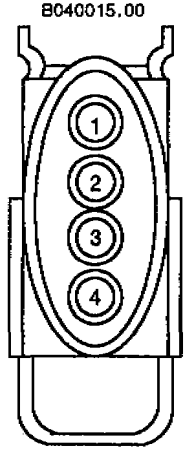


FIG. 2

B030003.04

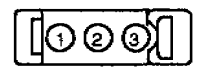


FIG. 3

B0300010.02

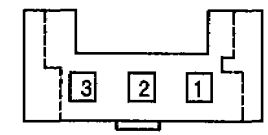


FIG. 4

B060002.00

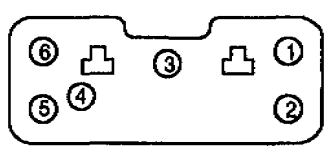


FIG. 5

B060002.00

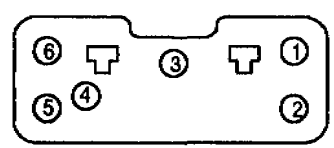
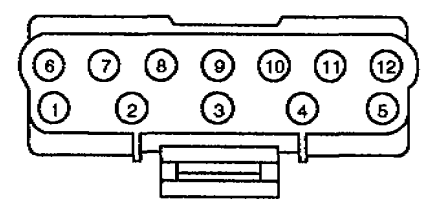


FIG. 6

B120006.00



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CONNECTOR VIEWS

FIG. 1

B060006.00

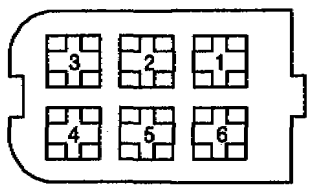


FIG. 2

B050003.00

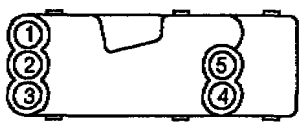


FIG. 3

B040004.00



FIG. 4

B120004.01

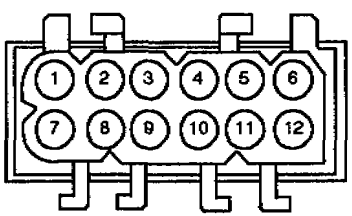


FIG. 5

B040002.00

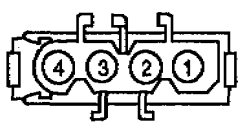
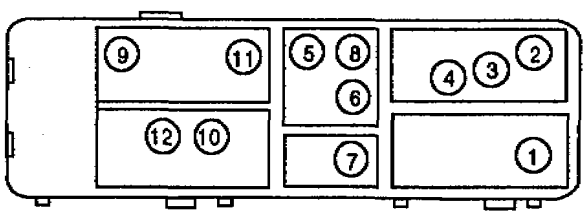


FIG. 6

B120008.00



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CONNECTOR VIEWS

FIG. 1

B030030.00

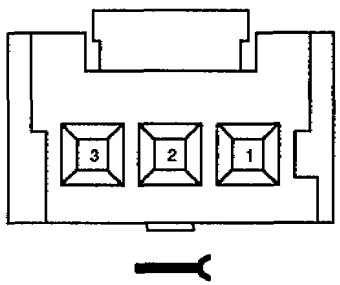


FIG. 2

B120002.03

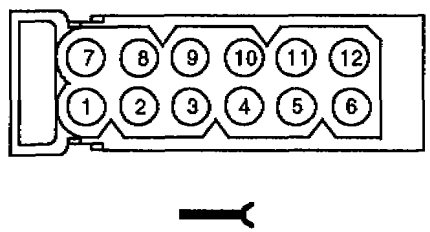


FIG. 3

B120004.05

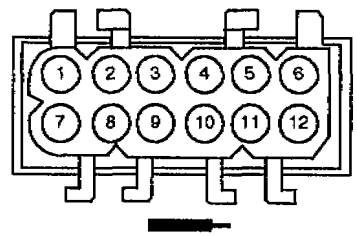


FIG. 4

B060013.00

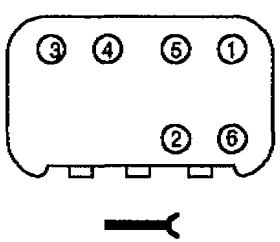


FIG. 5

B030009.00

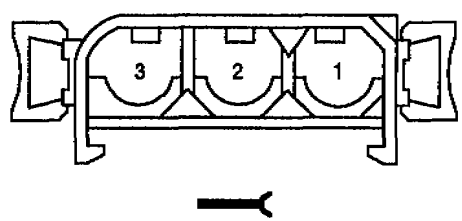
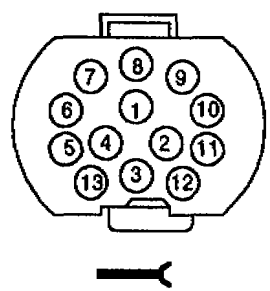


FIG. 6

B130002.01



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FIG. 1

B210002.00

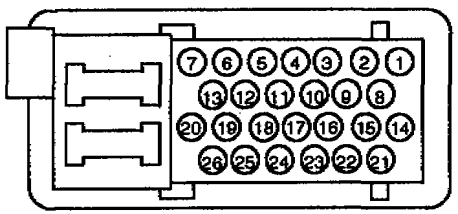


FIG. 2

B120011.00

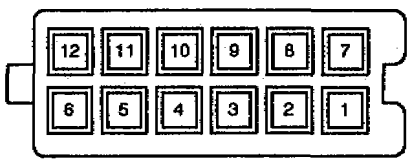


FIG. 3

B120011.00

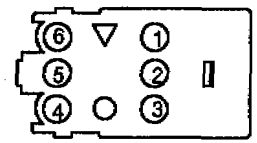


FIG. 4

B200001.00

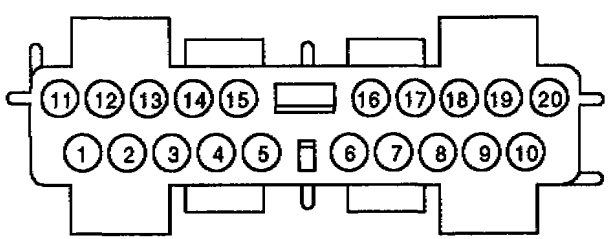


FIG. 5

B120005.00

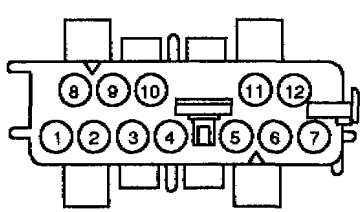
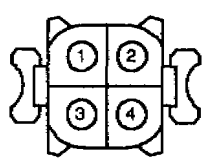


FIG. 6

B040010.00



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CONNECTOR VIEWS

FIG. 1

B100008.00

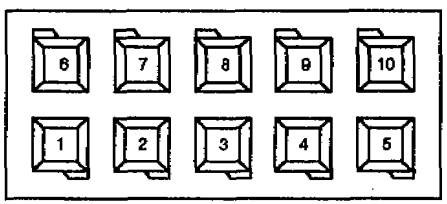


FIG. 2

B060023.00

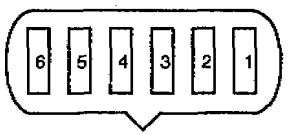


FIG. 3

B050002.00

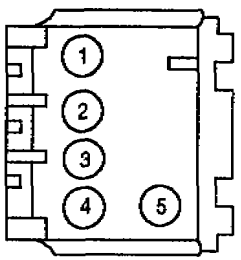


FIG. 4

B060009.00

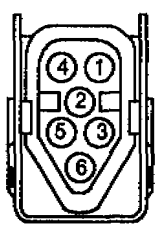


FIG. 5

B030022.00

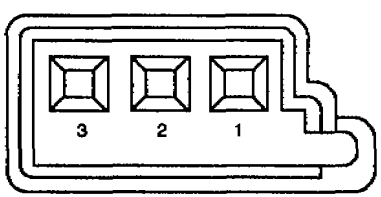
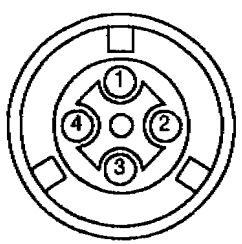


FIG. 6

B040016.00



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CONNECTOR VIEWS

FIG. 1

B060010.01

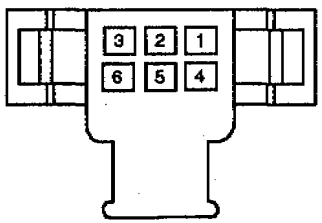


FIG. 2

B040013

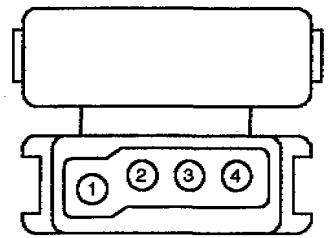


FIG. 3

B060035.00

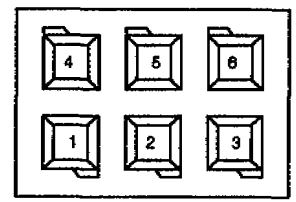


FIG. 4

B260005.00

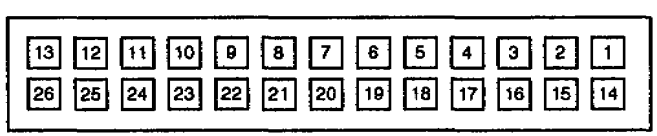
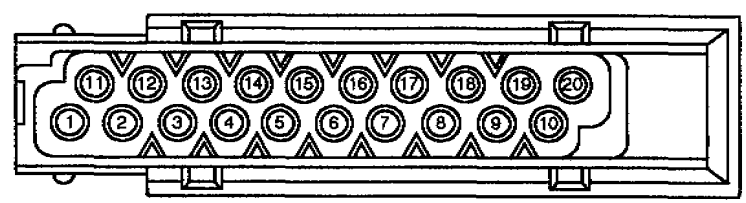


FIG. 5

B200007.00



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FIG. 1

B140002.00

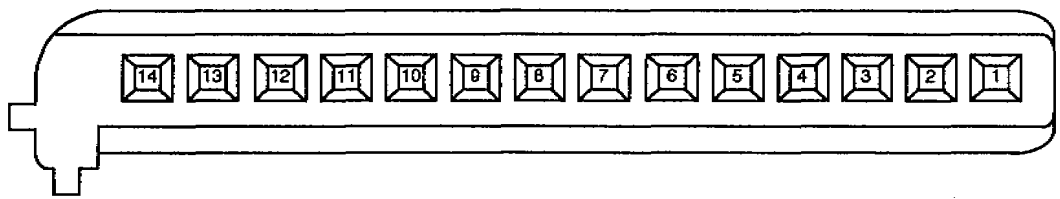


FIG. 2

B080005.00

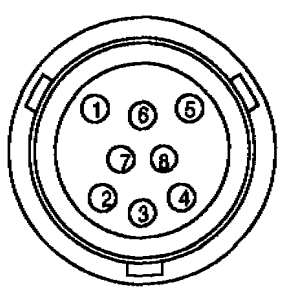
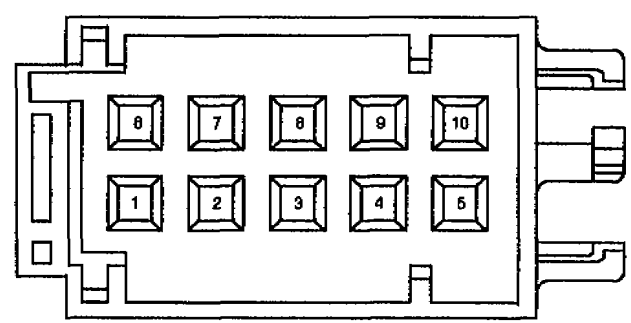


FIG. 3

B100009.00



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FIG. 1

B880001.00

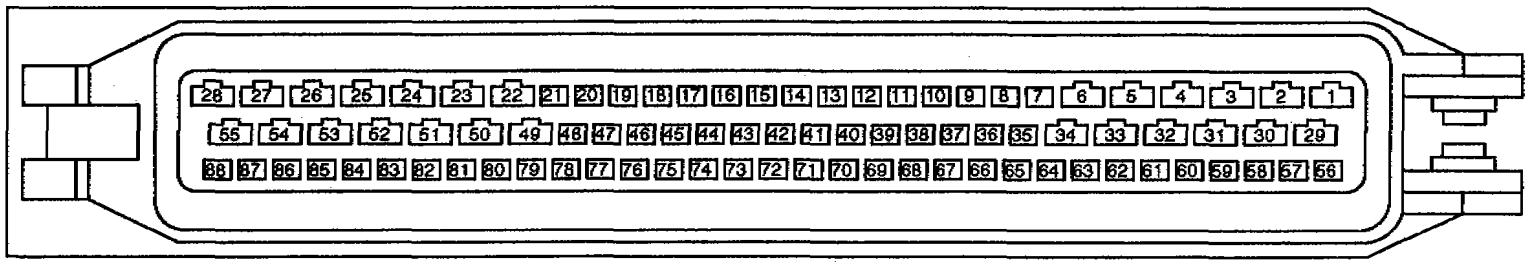


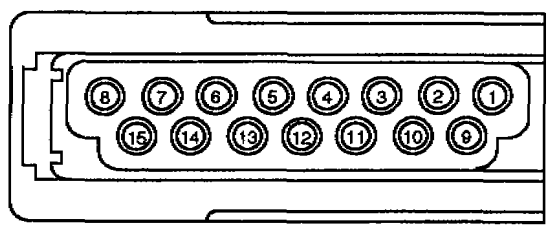
FIG. 2

B050006.00



FIG. 3

B150003.00



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CONNECTOR VIEWS

FIG. 1

B080000.00

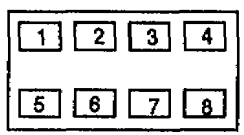


FIG. 2

B080001.00

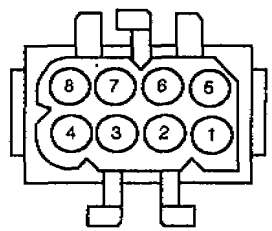


FIG. 3

B180000.00

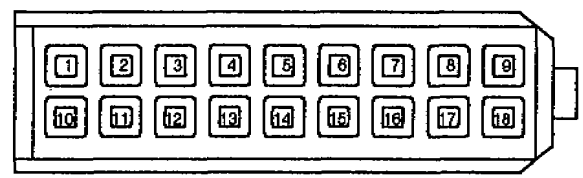


FIG. 4

B070005.00

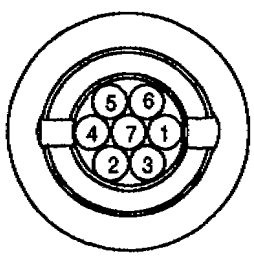


FIG. 5

B040018.01

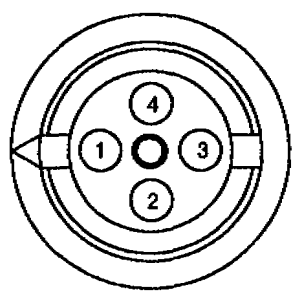
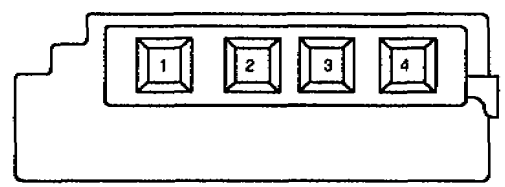


FIG. 6

B040020.00



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CONNECTOR VIEWS

FIG. 1

B060035.02

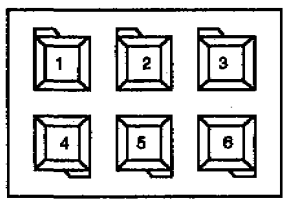


FIG. 2

B060035.01

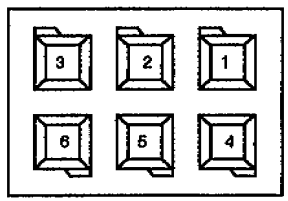


FIG. 3

B120003.01

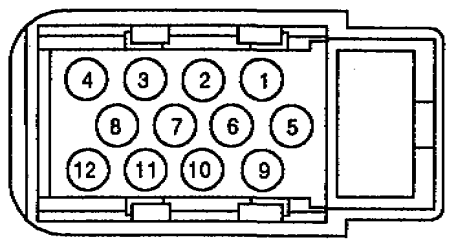


FIG. 4

B300002.00

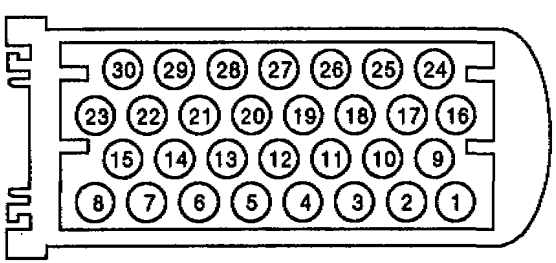
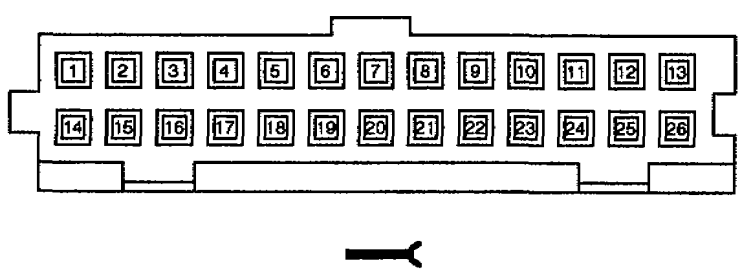


FIG. 5

B260002.00



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CONNECTOR VIEWS

FIG. 1

B120014

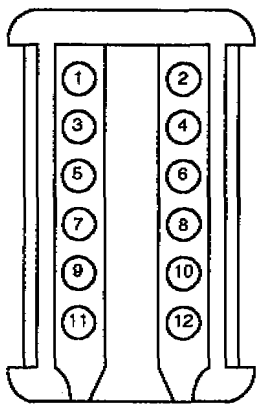


FIG. 2

B100004.00

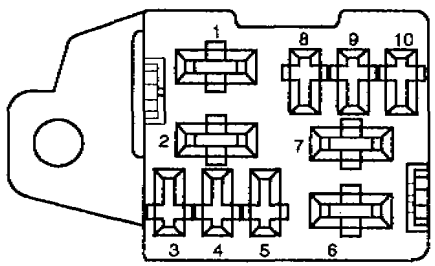


FIG. 3

B060038.00

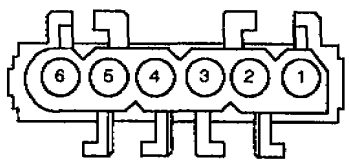


FIG. 4

B030015.08

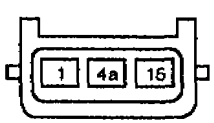


FIG. 5

B060019.00

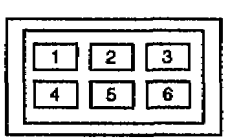
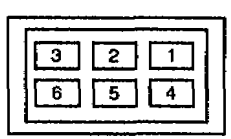


FIG. 6

B060019.03



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CONNECTOR VIEWS

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FIG. 1

B090007.00

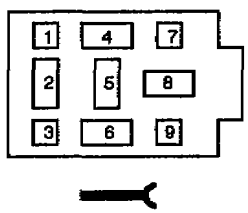


FIG. 2

B040022.00

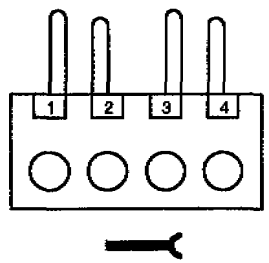


FIG. 3

B050013.00

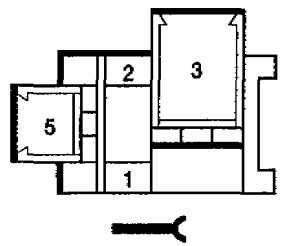


FIG. 4

B480000.00

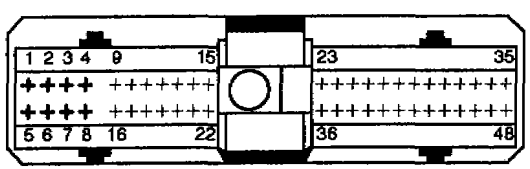


FIG. 5

B060005.07

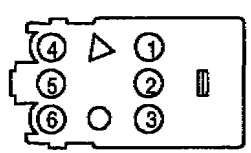
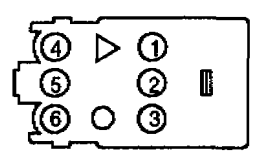


FIG. 6

B060005.08



CONNECTOR VIEWS

FIG. 1

B060005.09

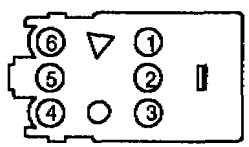


FIG. 2

B060005.10

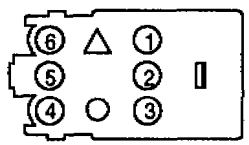


FIG. 3

B070007.00

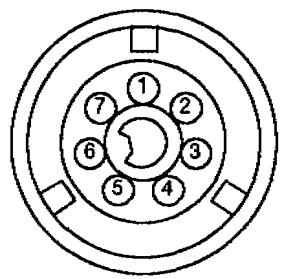


FIG. 4

B260001.00

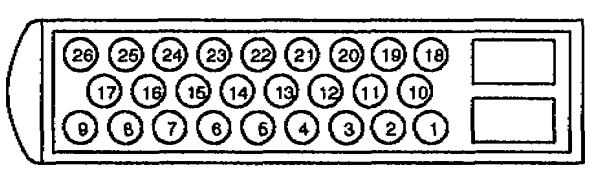
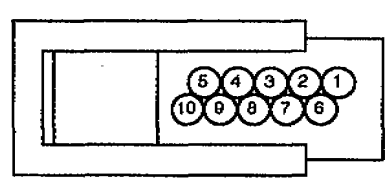


FIG. 5

B100007.00



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CONNECTOR VIEWS

FIG. 1

B030003.00

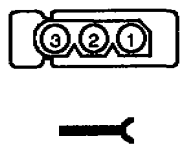


FIG. 2

B060013.00

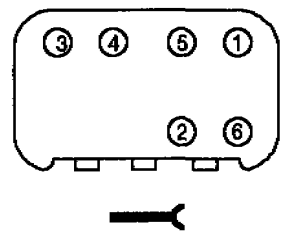


FIG. 3

B080006.00

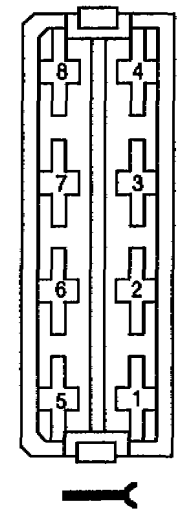
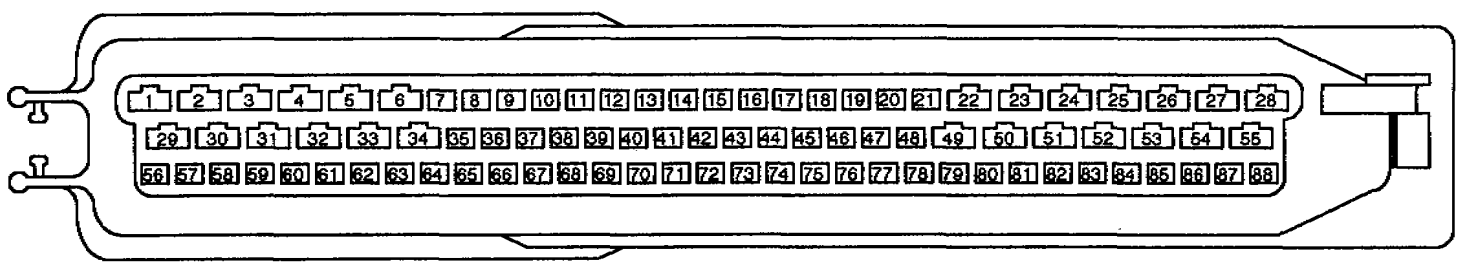


FIG. 4

B880002.01



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CONNECTOR VIEWS

FIG. 1

B030004.04

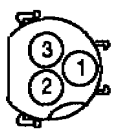


FIG. 2

B060030.00

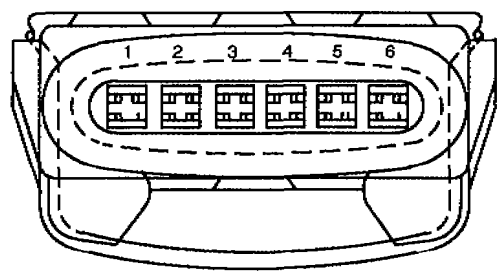


FIG. 3

B030017.30

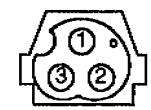


FIG. 4

B060043.00

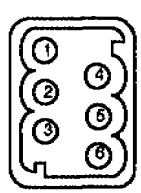


FIG. 5

B060038.00

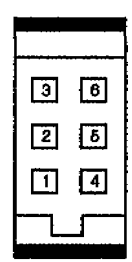
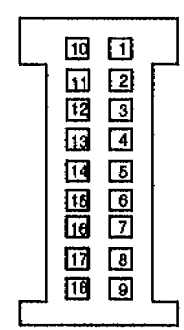


FIG. 6

B180000.02



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CONNECTOR VIEWS

FIG. 1

B100012.00

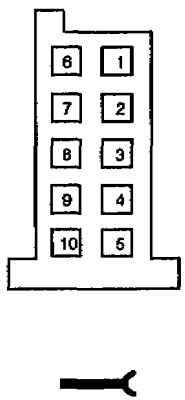
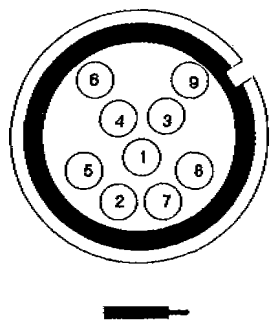


FIG. 2

B090006.00



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