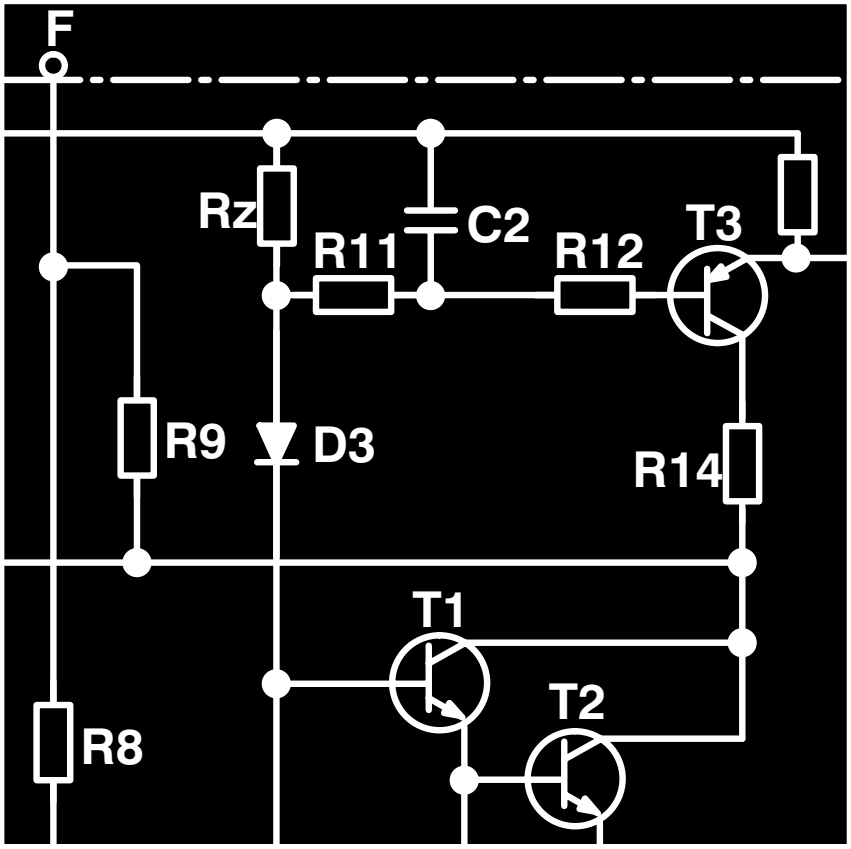


1998
BMW E36 318is/c, 323i/c, 328i/c, M3/c
Electrical Troubleshooting Manual

Vehicles Produced 9/97 to 8/98

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BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

SERIES 3 – E36 (318is, 323i, 328i, M3, INCL. CONVERTIBLE)

SCHEMATICS MODEL YEAR 1998

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OXYGEN SENSOR II (IN FRONT OF CATALYTIC CONVERTER), B62201 . 1210.17-04
PARK BRAKE SWITCH, S31 ..... 6211.0-00
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PARK LIGHT, RIGHT, E19 ..... 6314.0-01
PARK VENTILATION RELAY, K450 ..... 6412.
PARK VENTILATION RELAY, K450 ..... 6412.10-01
PARK VENTILATION WITH HR 6412.10
PARK VENTILATION WITH IHKA E36 ..... 6412.20
PARK/TAIL/UNDERHOOD LIGHTS 6314.0
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POWER DISTRIBUTION BOX, FRONT, P90 ..... 0670.2-00
POWER DISTRIBUTION CHART 0670.0
POWER MIRRORS 5116.0
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POWER TILT/SLIDE SUNROOF (SHD) 5410.1
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REAR DOOR POWER WINDOW SWITCH (DOOR), LH, S41y 5133.1-02
REAR DOOR POWER WINDOW SWITCH (DOOR), RH, S42y 5133.1-02
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ROLLOVER SENSOR, N24 ..... 5430.1-03
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SEAT BELT SWITCH, DRIVER'S, S58 ..... 3234.0-02
SEAT BELT SWITCH, PASSENGER'S, S59 ..... 3234.0-01
SEAT BELT SWITCH, PASSENGER'S, S59 ..... 3234.0-02
SEAT CONTROL SWITCH, DRIVER'S SEAT, S51 ..... 5200.0-00
SEAT CONTROL SWITCH, PASSENGER'S SEAT, S56 . 5200.0-01

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SEAT CUSHION TILT MOTOR, DRIVER'S, M50 ..... 5200.0-00
SEAT CUSHION TILT MOTOR, PASSENGER'S, M61 .. 5200.0-01
SEAT HEATER SWITCH, DRIVER'S SEAT, S53 ..... 5203.0-00
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SEAT HEATER, PASSENGER'S, E58 ..... 5203.0-00
SEAT HEIGHT MOTOR, DRIVER'S, M52 ..... 5200.0-00
SEAT HEIGHT MOTOR, PASSENGER'S, M59 ..... 5200.0-01
SEAT LUMBAR SUPPORT MOTOR/VALVE, DRIVER'S, M55z 5200.0-02
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SEAT MAT, I1008 ..... 3234.0-03
SEAT MOVEMENT MOTOR, DRIVER'S, M51 ..... 5200.0-00
SEAT MOVEMENT MOTOR, PASSENGER'S, M60 .... 5200.0-01
SEAT OCCUPANCY DETECTOR, A113 ..... 3234.0-00
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SEATBACK HEATER, PASSENGER'S, E59 ..... 5203.0-00
SEATBACK RECLINER MOTOR, DRIVER'S, M53 ..... 5200.0-00
SEATBACK RECLINER MOTOR, PASSENGER'S, M58 5200.0-01
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SECONDARY AIR PUMP RELAY, Y6304 ..... 1210.20-09
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SECONDARY AIR PUMP VALVE, Y6163 ..... 1210.20-09
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SPEED SENSOR – ABS, LEFT FRONT, B2 ..... 3450.1
SPEED SENSOR – ABS, LEFT REAR, B4 ..... 3450.0-01
SPEED SENSOR – ABS, LEFT REAR, B4 ..... 3450.1
SPEED SENSOR – ABS, RIGHT FRONT, B1 ..... 3450.0-01
SPEED SENSOR – ABS, RIGHT FRONT, B1 ..... 3450.1
SPEED SENSOR – ABS, RIGHT REAR, B3 ..... 3450.0-01
SPEED SENSOR – ABS, RIGHT REAR, B3 ..... 3450.1
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STARTER, M6510 ..... 1240.0-02
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SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE, A12 ..... 3234.0
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THERMOSTAT, A32y 6410.5
THROTTLE POSITION SENSOR, R6252 . . . . . 1210.
TILT/SLIDE SUNROOF CONTROL ASSEMBLY, A56 . . . 5410.1-00
TILT/SLIDE SUNROOF SWITCH (SHD), S38 . . . . . 5410.1-00
TRANSMISSION CONTROL MODULE (EGS), A7000 . . 2460.4-00
TRANSMISSION CONTROL MODULE (EGS), A8500 . . 2460.2-00
TRANSMISSION POSITION INDICATOR LIGHT, E82 . . 6300.0-01
TRANSMISSION VALVE UNIT, Y8505 . . . . . 2460.2-01
TRANSMISSION VALVE UNIT, Y8505y 2460.2-07
TRANSMISSION VALVE UNIT, Y8505y 2460.4-01
TRANSMITTER MODULE (EWS II), A835 . . . . . 6135.0
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TURN LIGHT, LEFT REAR, H6 . . . . . 6313.0-02
TURN LIGHT, RIGHT FRONT, H4 . . . . . 6313.0-02
TURN LIGHT, RIGHT REAR, H5 . . . . . 6313.0-02
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VARIABLE CAMSHAFT CONTROL VALVE 1, Y6275 . . 1210.17-05
VEHICLE SPEED SENSOR, B10 . . . . . 6211.0-04
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WASHER JET HEATER, RIGHT, E52 . . . . . 6169.0-00
WASHER PUMP, M4 . . . . . 6160.1-01
WATER VALVE ASSEMBLY, Y4 . . . . . 6410.5-00
WATER VALVE ASSEMBLY, Y4 . . . . . 6450.7-01
WINDOW BLOWER MICRO SWITCH, REAR, S196 . . . . 5430.1-01
WINDOW BLOWER RELAY, REAR,K99 . . . . . 6424.0-01
WINDOW BLOWER, REAR, M105 . . . . . 6424.0-01
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WIPER/WASHER SWITCH, S5 . . . . . 6160.1
ZKE CENTRAL LOCKING (ZV) 5126.0
ZKE DOOR LOCK HEATING (TSH) 5120.0

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0110.0 INTRODUCTION

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 that is only a few cm long. To ensure clear arrangement , all connectors, lines branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells **0670.3 Fuse Details** and **0670.4 Ground Distribution** where all lines are illustrated with all plug connections, line branches and connected components.

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

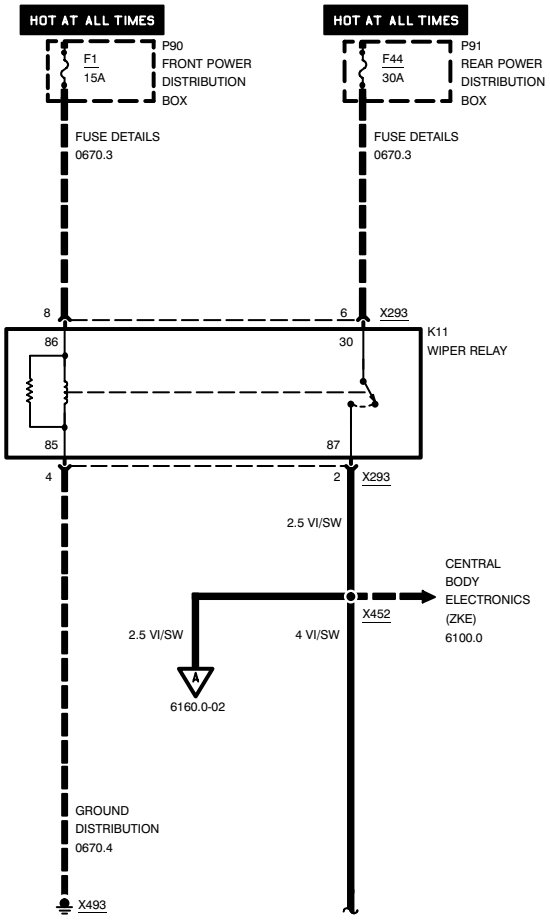
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **8000.0 Splice Location Views** all splices are listed in numerical order and illustrations are provided to assist in locating splices on larger harnesses. In cell **8500.0 Connector Views** diagrams of connectors with more than 2 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 unit 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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0140.0 SYMBOLS


BATTERY


FUSE DETAILS

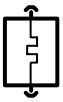

FUSIBLE LINK


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


KNOCK SENSOR


VARIABLE RESISTANCE SENSOR VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE


VARIABLE RESISTOR RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE


DIODE CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW


ZENER DIODE TO REGULATE VOLTAGE


LIGHT EMITTING DIODE


OXYGEN SENSOR


ANTENNA


CONTROL/POWER ELECTRONICS


HALL EFFECT SENSOR


RADIO



TRANSISTORIZED SWITCH



INDUCTIVE SENSOR



VEHICLE SPEED SENSOR

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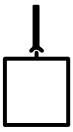
SYMBOLS

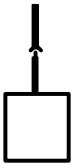

ENTIRE COMPONENT SHOWN

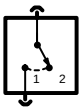

PART OF COMPONENT SHOWN


COMPONENT WITH SCREW TERMINALS

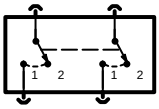

COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)


CONNECTOR ATTACHED TO COMPONENT


CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



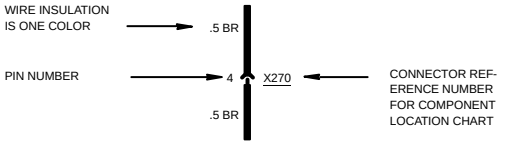
ONE POLE, TWO POSITION SWITCH



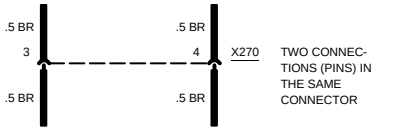
SWITCHES THAT MOVE TOGETHER

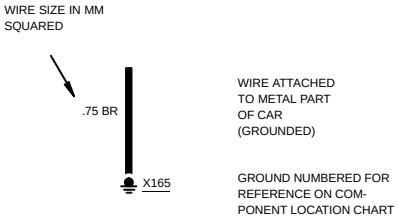
DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

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



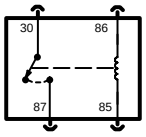




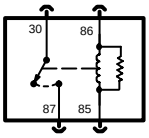


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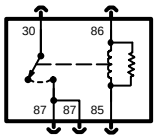
SYMBOLS



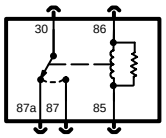
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

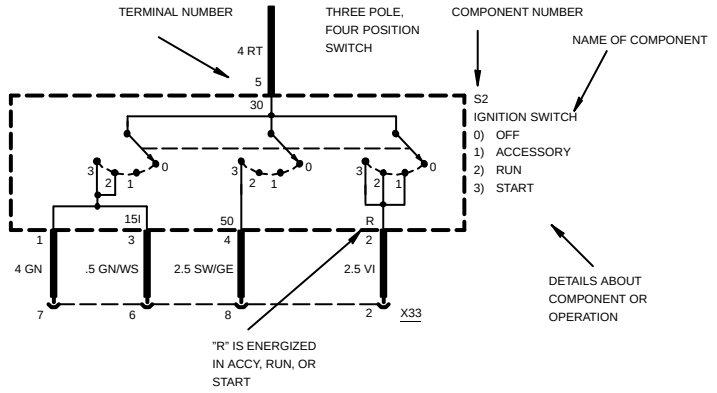


CONTACT RELAY WITH TWO OUTPUTS

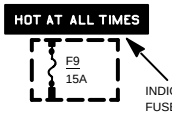


CHANGEOVER RELAY WITH TWO OUTPUTS

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

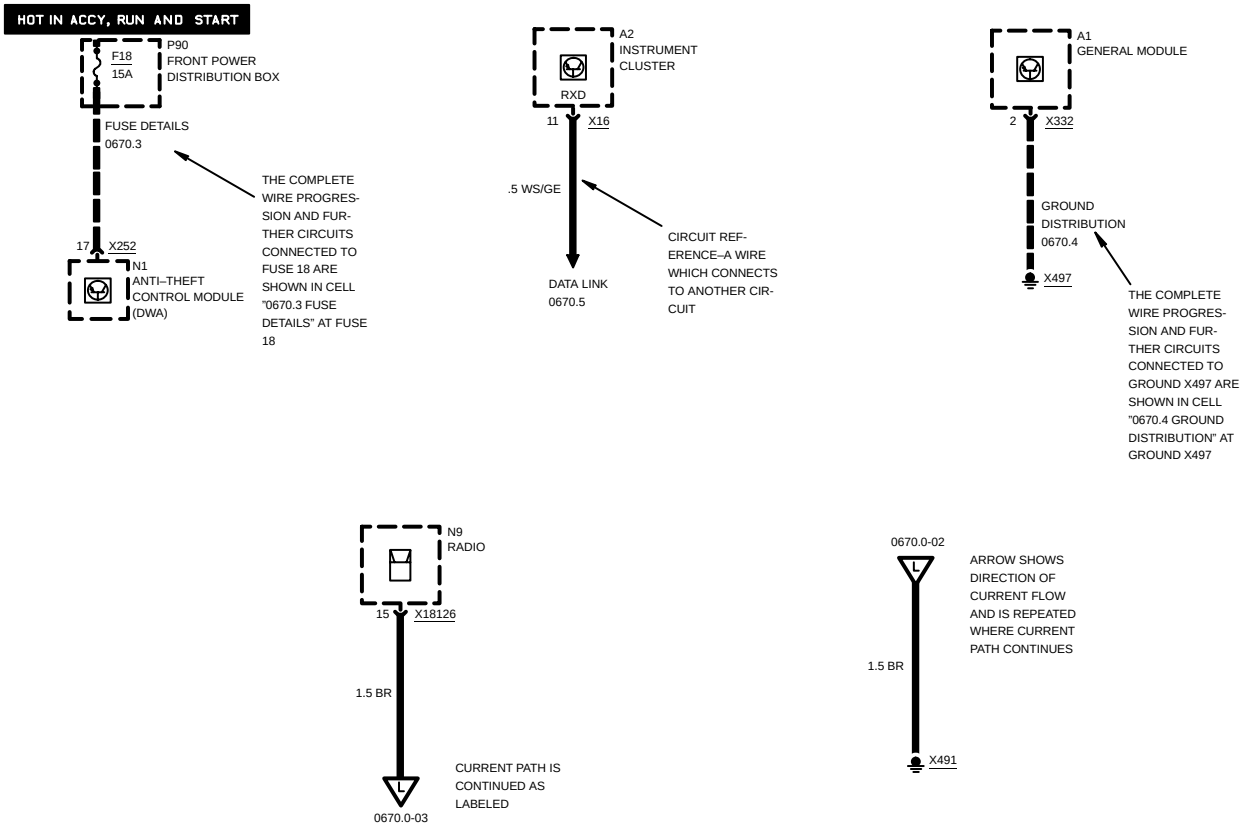


INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

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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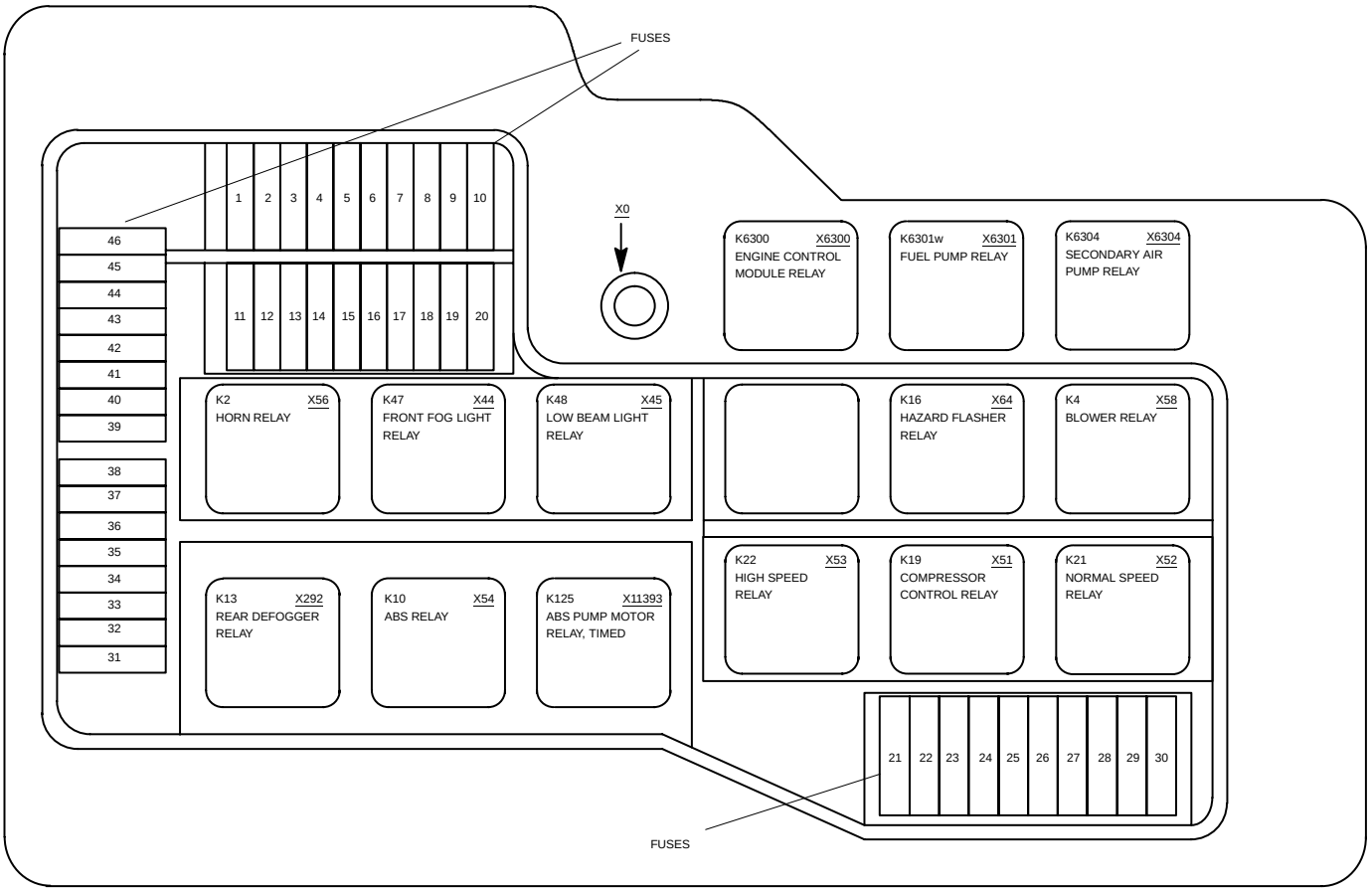
SYMBOLS



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0670.0 POWER DISTRIBUTION CHART

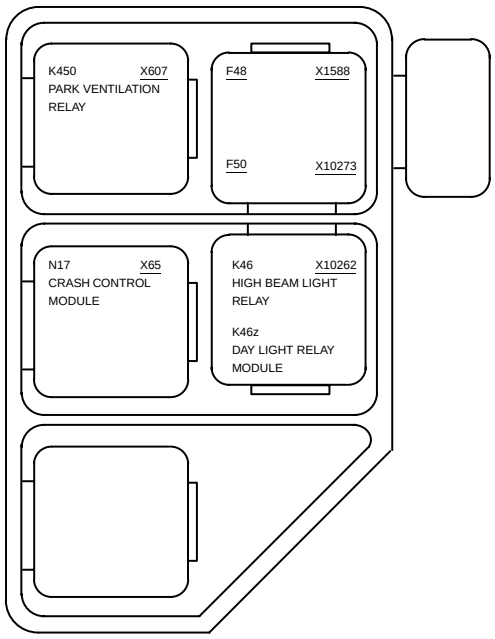
FRONT POWER DISTRIBUTION BOX



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POWER DISTRIBUTION CHART

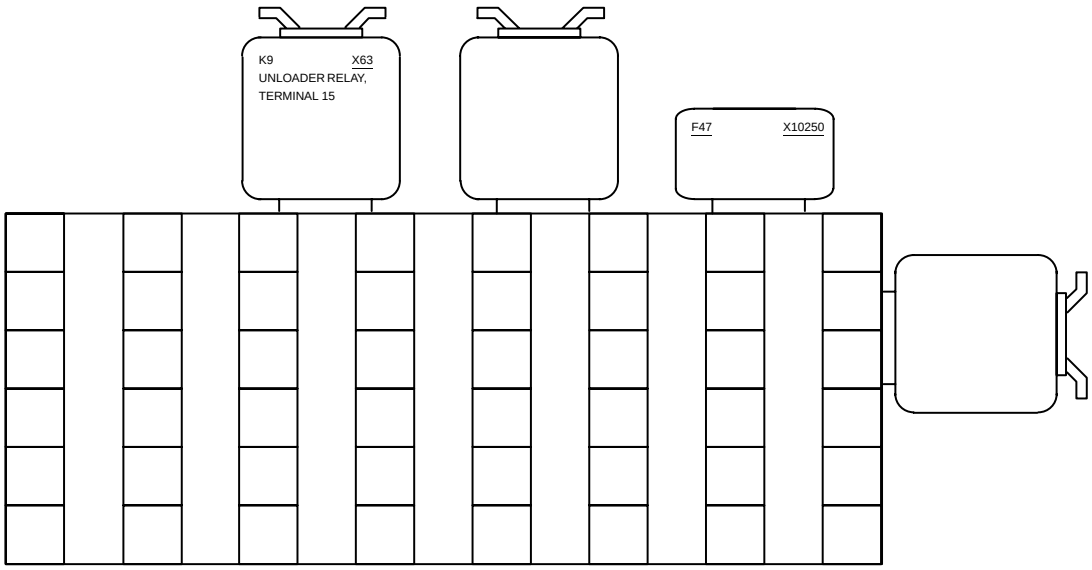
RELAY PANEL UNDER LH SIDE OF DASHBOARD



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POWER DISTRIBUTION CHART

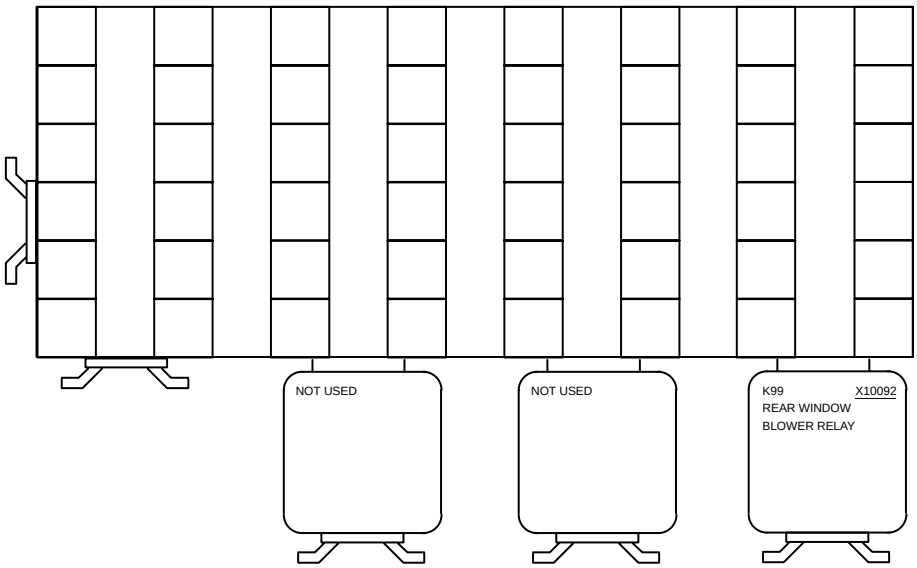
SPLICE PANEL UNDER LH SIDE OF DASHBOARD



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POWER DISTRIBUTION CHART

SPLICE PANEL UNDER RH SIDE OF DASHBOARD



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0670.1 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
		30A	5A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)																●		●											
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)		●														●		●											
1230.0	CHARGING SYSTEM																													
1240.0	START																												●	
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)																										●		●	
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																										●		●	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																											●		
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)							●																					●	
5133.1	POWER WINDOWS (FH)														●					●										
5200.0	POWER SEATS					●																								
5203.0	HEATED SEATS				●																			●						
5410.1	POWER TILT/SLIDE SUNROOF (SHD)	●																												
5430.1	ELECTRICAL CONVERTIBLE TOP							●																	●			●		
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)														●															
6133.0	HORN								●																					
6135.0	DRIVE–AWAY PROTECTION (EWS II)																												●	

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FUSES 1 TO 29

		FUSE NUMBER																												
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6160.1	WIPER/WASHER MODULE (WWM)			●																										
6167.1	HEADLIGHT WASHER (SRA)			●																										
6169.0	WINDSHIELD WASHER JET HEATERS																								●					
6211.0	INSTRUMENT CLUSTER																							●				●		
6213.1	ANALOG CLOCK																													
6213.2	MULTI–FUNCTION CLOCK																							●				●		
6214.0	ON–BOARD DISPLAY																							●				●		
6300.0	LIGHT SWITCH DETAILS																						●			●				
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																										●			
6325.0	BRAKE LIGHTS																													
6330.3	INTERIOR LIGHTS																													
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER																													
6350.0	CRASH CONTROL MODULE																													
6410.5	HEATING CONTROL (HR)																				●			●						
6412.10	PARK VENTILATION WITH HR																				●									
6412.20	PARK VENTILATION WITH IHKA E36																				●									

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FUSES 1 TO 29

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6424.0	REAR WINDOW DEFOGGER/ANTENNA						●																	●						
6450.7	INTEGRATED CLIMATE REGULATION (IHKA E36)																●				●			●						
6510.0	RADIO/STEREO									●																				
6510.1	RADIO/HIFI/TOP HIFI									●																				
6561.0	CELLULAR TELEPHONE (PROVISIONS)																													
6571.0	CRUISE CONTROL (TEMPOMAT)																												●	
6575.2	ANTI–THEFT SYSTEM (ALPINE)																													
6581.2	ON–BOARD COMPUTER (BC V)											●	●											●				●		

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FUSES 30 TO 50

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1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)										●							●				●									
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)										●							●													
1230.0	CHARGING SYSTEM																														
1240.0	START		●														●														
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)																	●													
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																	●													
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)													●																	
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)		●				●										●														
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5200.0	POWER SEATS											●																			
5203.0	HEATED SEATS																														
5410.1	POWER TILT/SLIDE SUNROOF (SHD)																														
5430.1	ELECTRICAL CONVERTIBLE TOP													●	●						●										
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)				●		●								●																
6133.0	HORN																														
6135.0	DRIVE–AWAY PROTECTION (EWS II)		●														●														

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FUSES 30 TO 50

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6160.1	WIPER/WASHER MODULE (WWM)							●	●							●															
6167.1	HEADLIGHT WASHER (SRA)							●								●															
6169.0	WINDSHIELD WASHER JET HEATERS																														
6211.0	INSTRUMENT CLUSTER		●														●	●													
6213.1	ANALOG CLOCK		●																												
6213.2	MULTI–FUNCTION CLOCK		●														●	●													
6214.0	ON–BOARD DISPLAY		●														●	●													
6300.0	LIGHT SWITCH DETAILS				●				●																						
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																														
6325.0	BRAKE LIGHTS																	●													
6330.3	INTERIOR LIGHTS				●										●																
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER			●	●				●							●															
6350.0	CRASH CONTROL MODULE					●																									
6410.5	HEATING CONTROL (HR)																														
6412.10	PARK VENTILATION WITH HR																														
6412.20	PARK VENTILATION WITH IHKA E36																														

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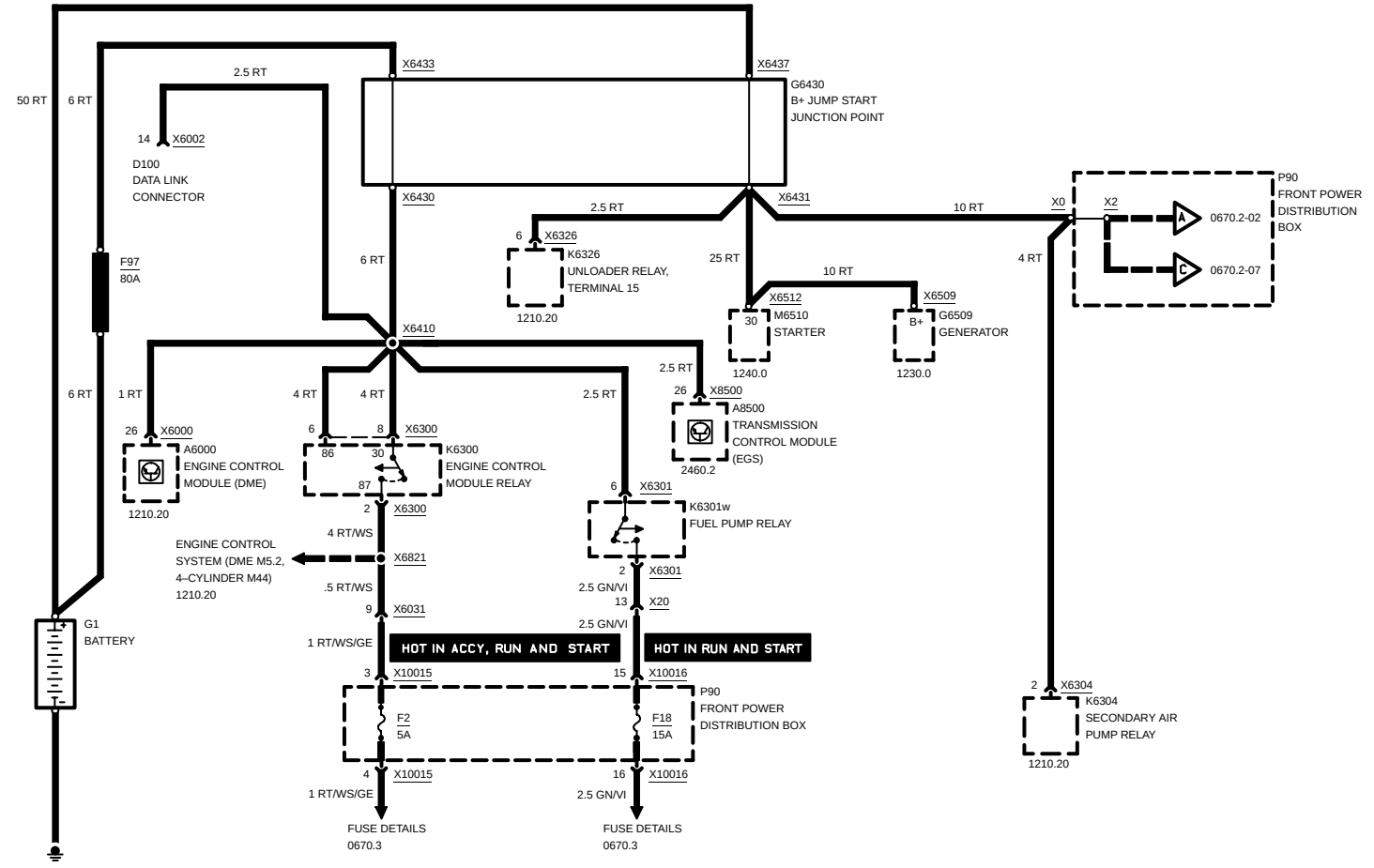
FUSES 30 TO 50

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6424.0	REAR WINDOW DEFOGGER/ANTENNA														●							
6450.7	INTEGRATED CLIMATE REGULATION (IHKA E36)		●								●		●							●		
6510.0	RADIO/STEREO															●						
6510.1	RADIO/HIFI/TOP HIFI				●										●	●						
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●										●							
6571.0	CRUISE CONTROL (TEMPOMAT)																	●				
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6581.2	ON–BOARD COMPUTER (BC V)		●		●				●								●	●				

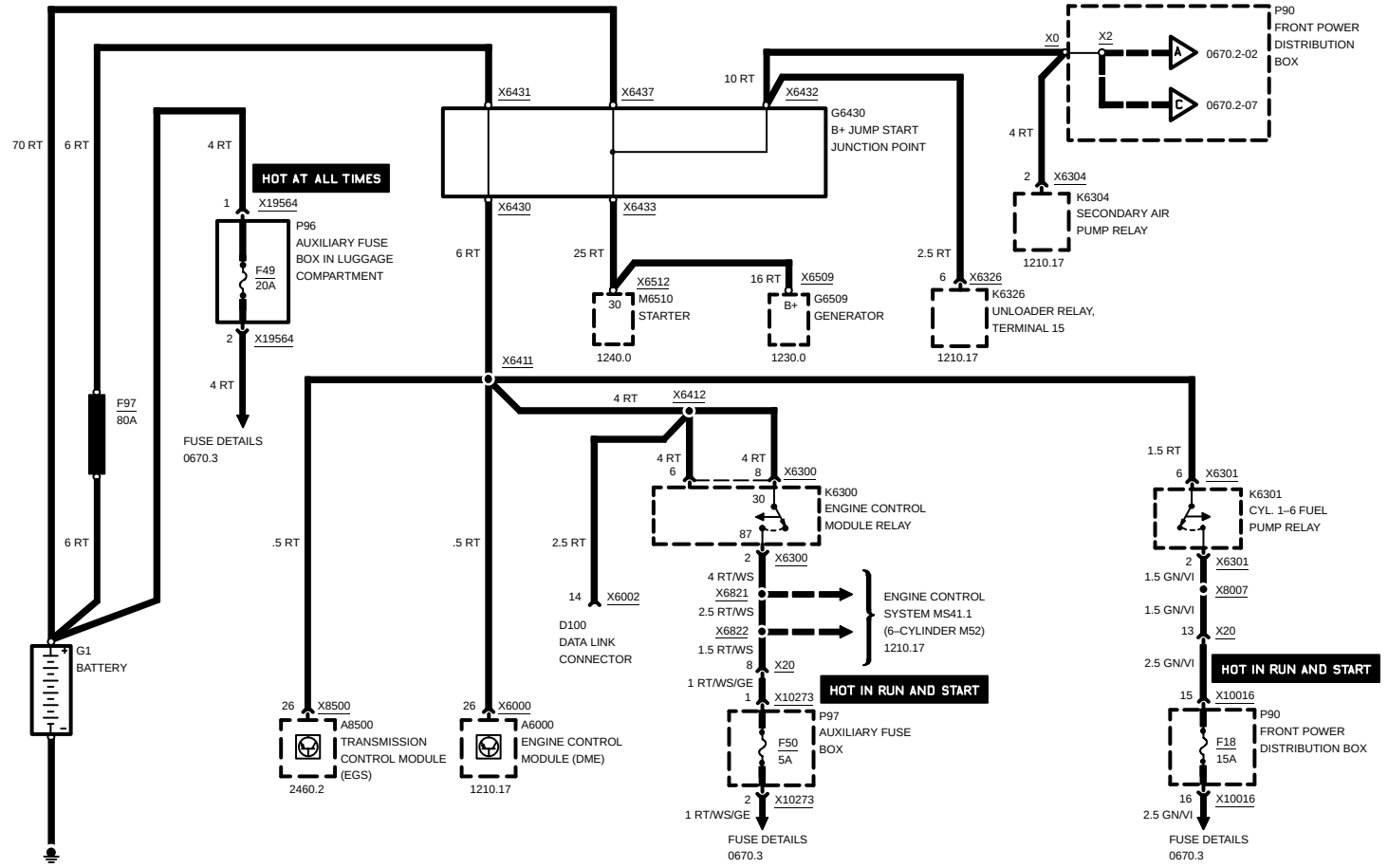
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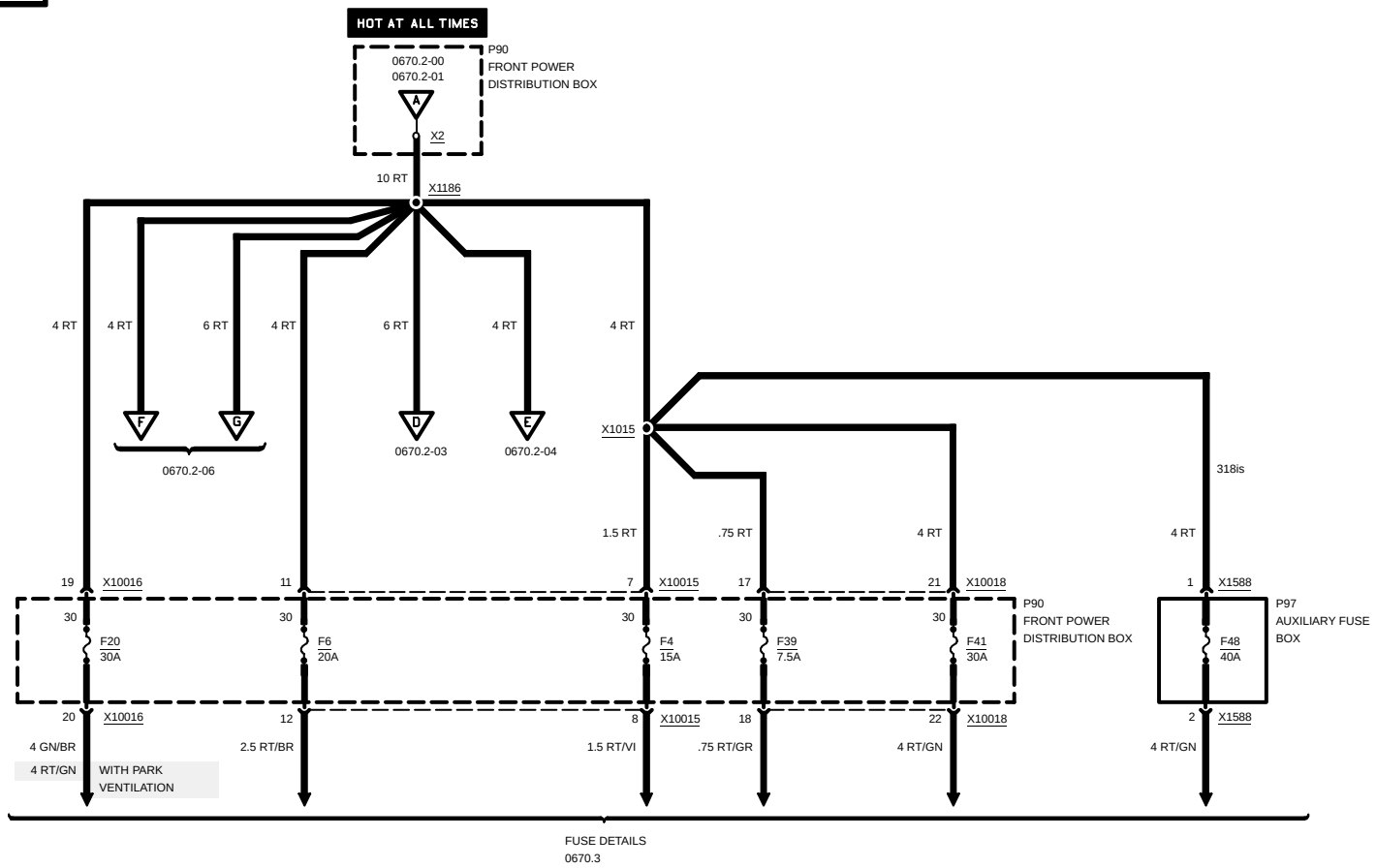


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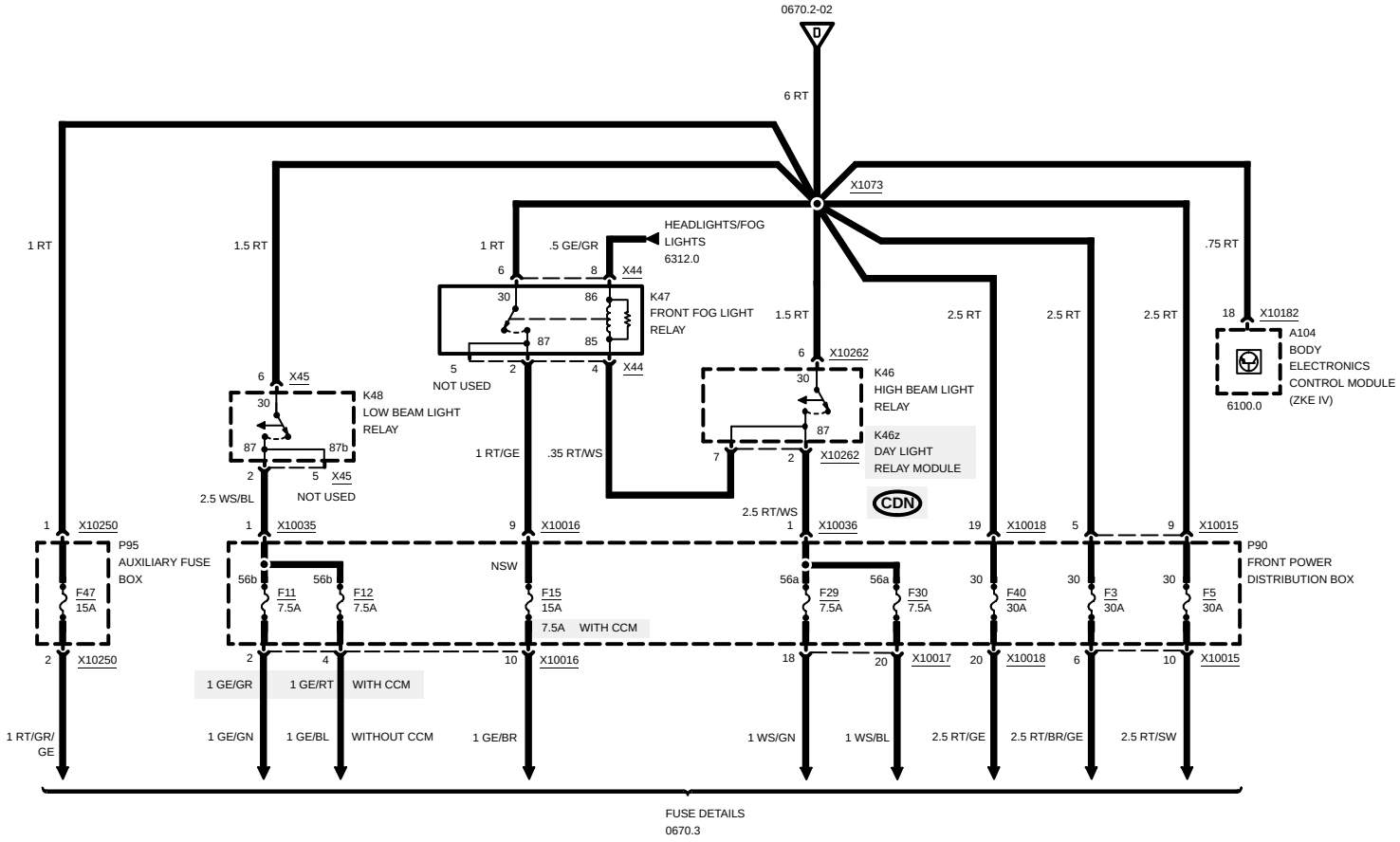
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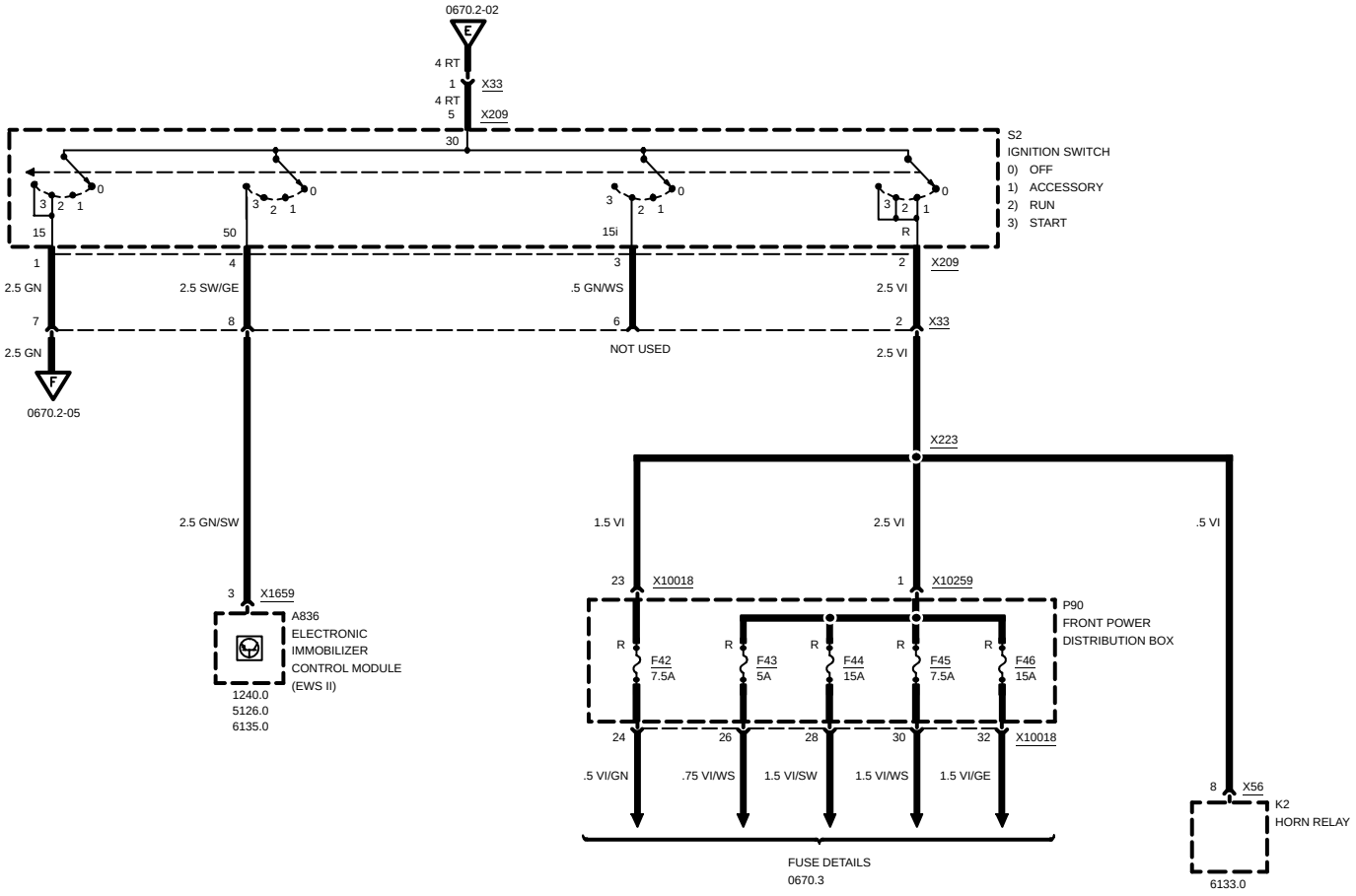
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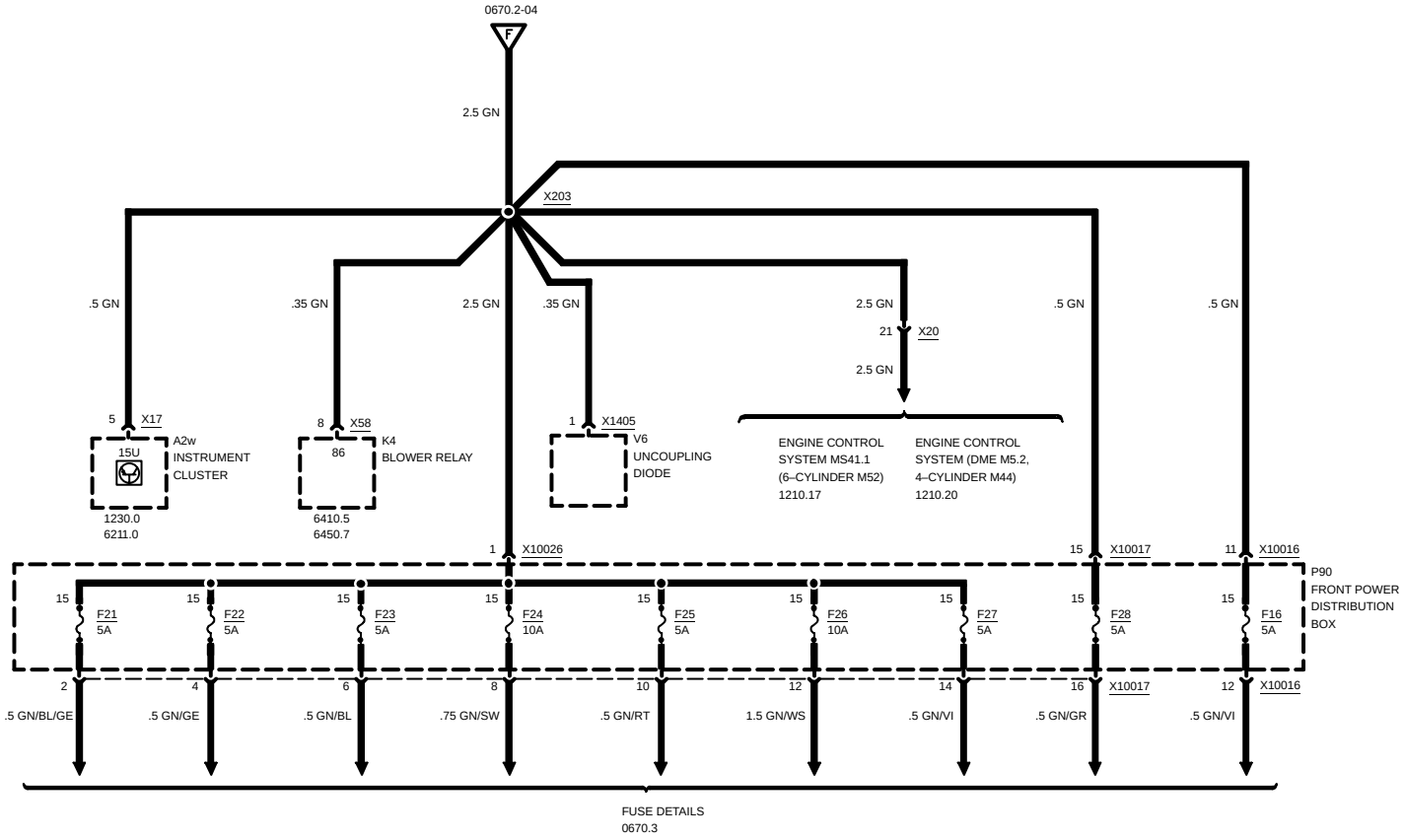
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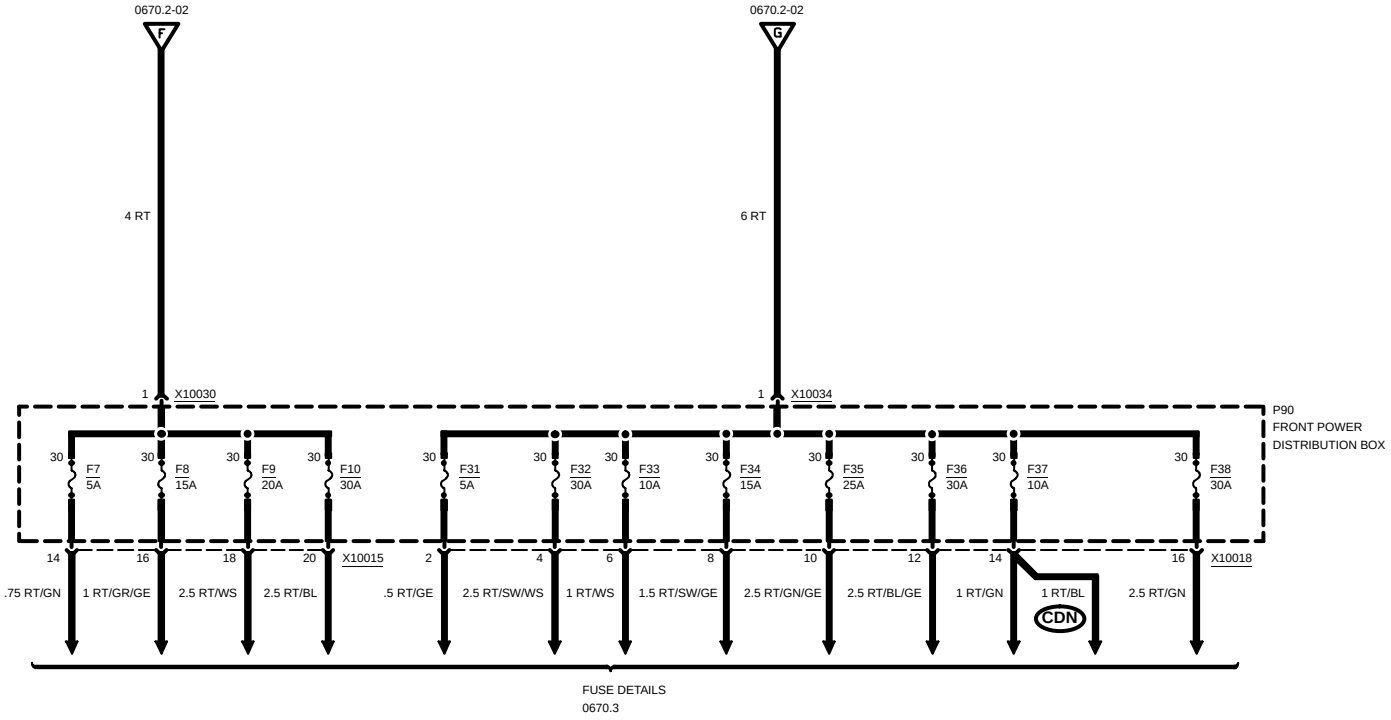
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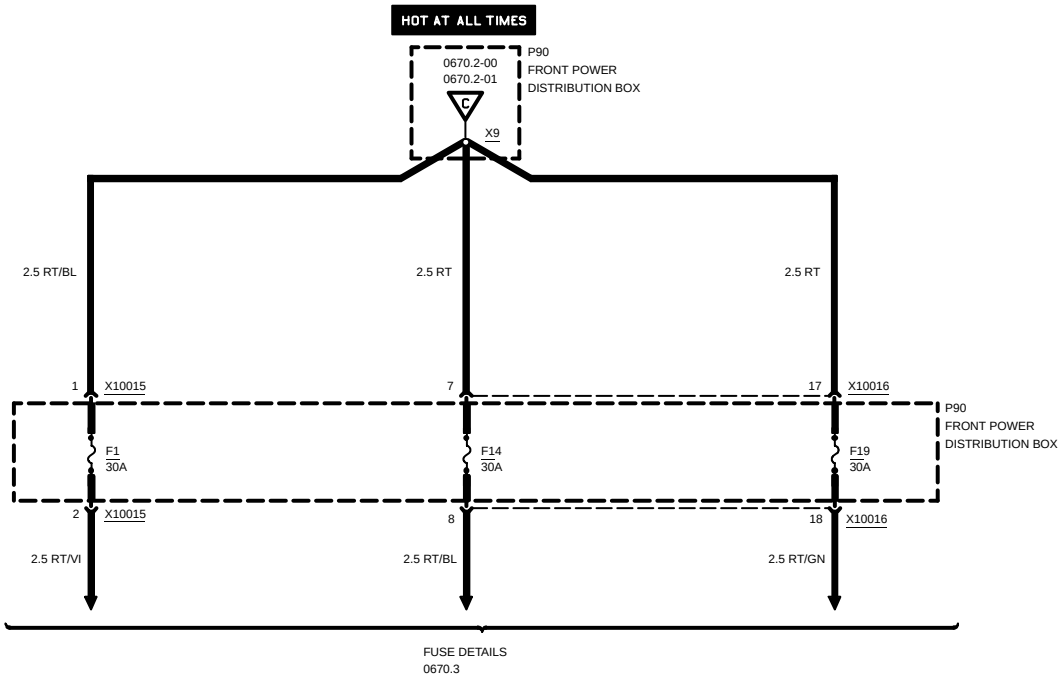
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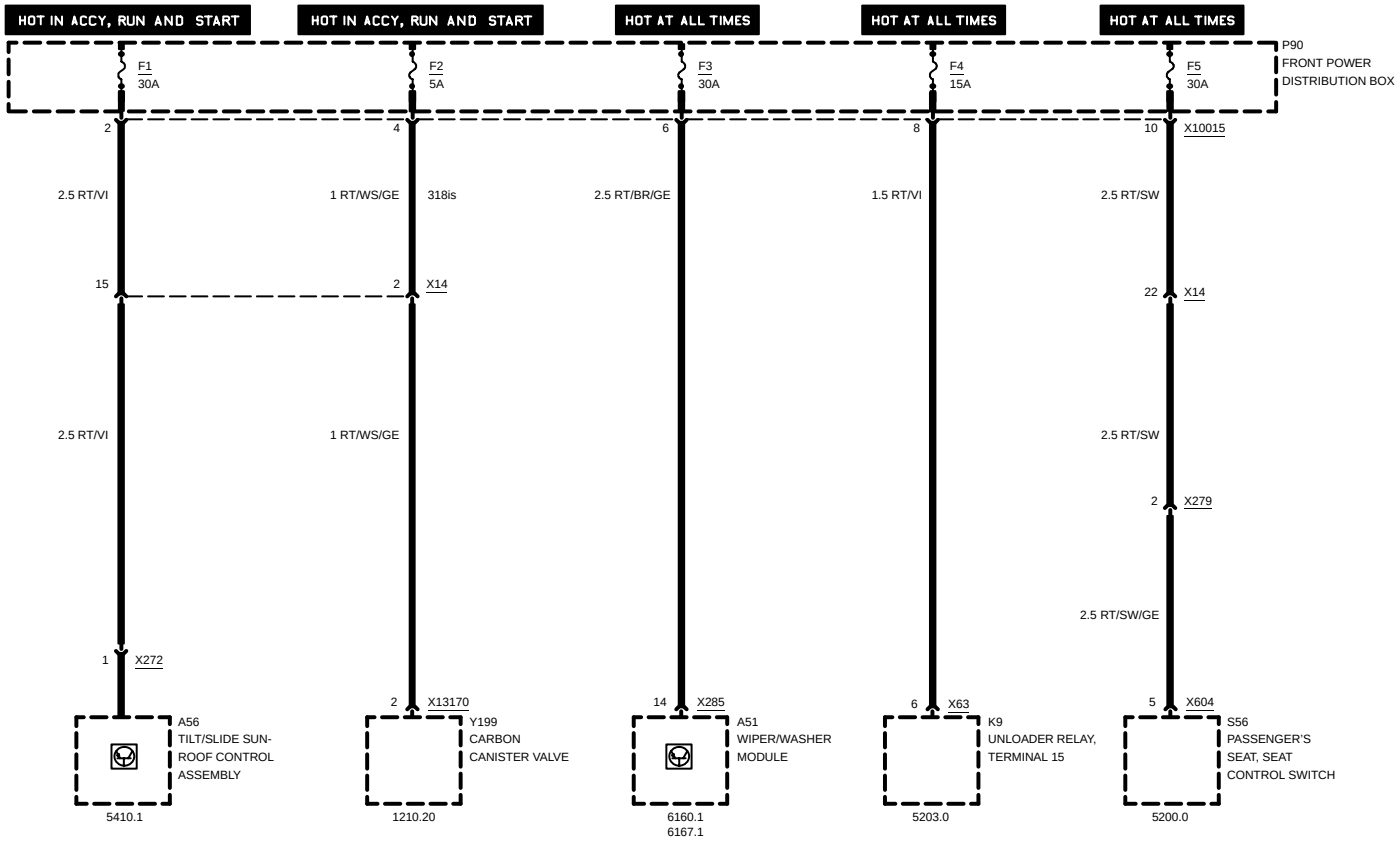
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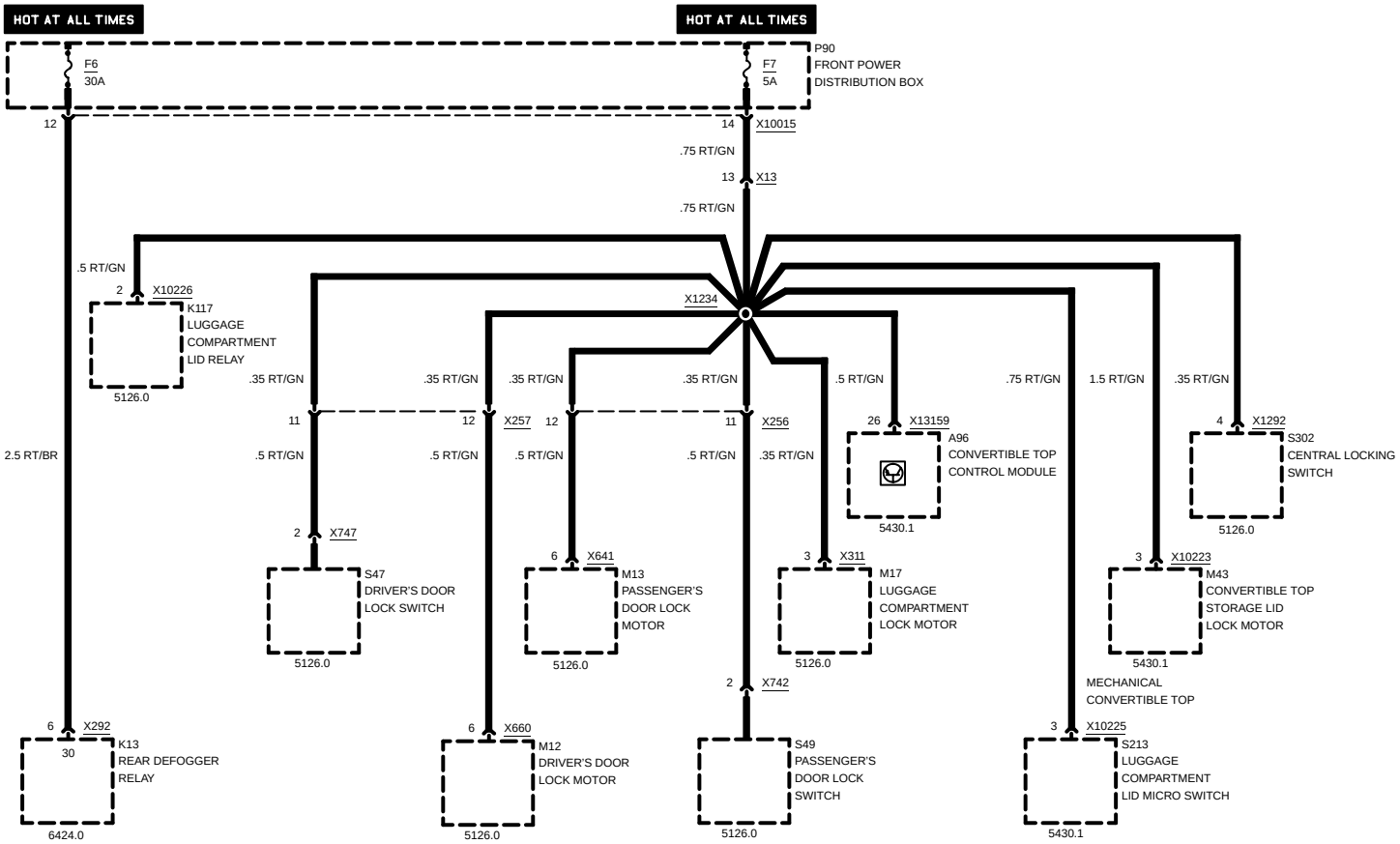
FUSES 1, 2, 3, 4, AND 5



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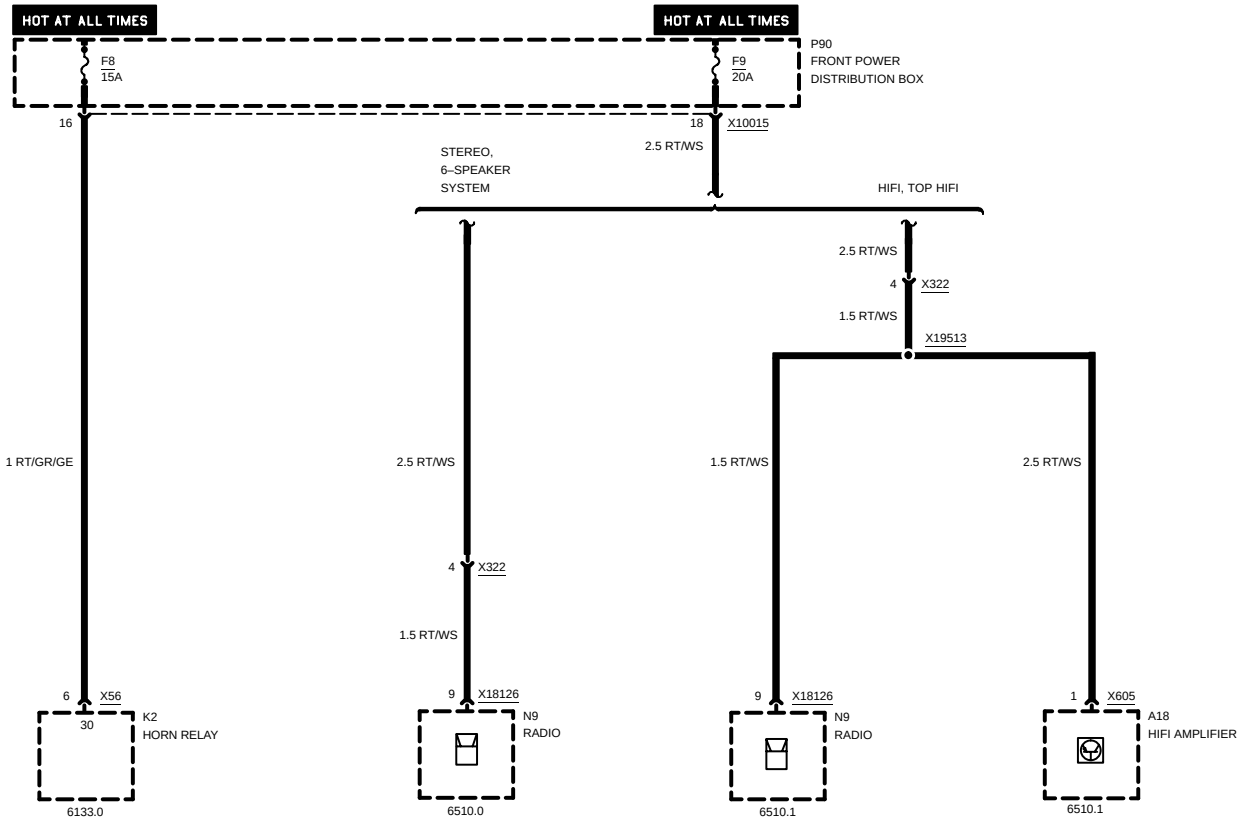
FUSES 6 AND 7



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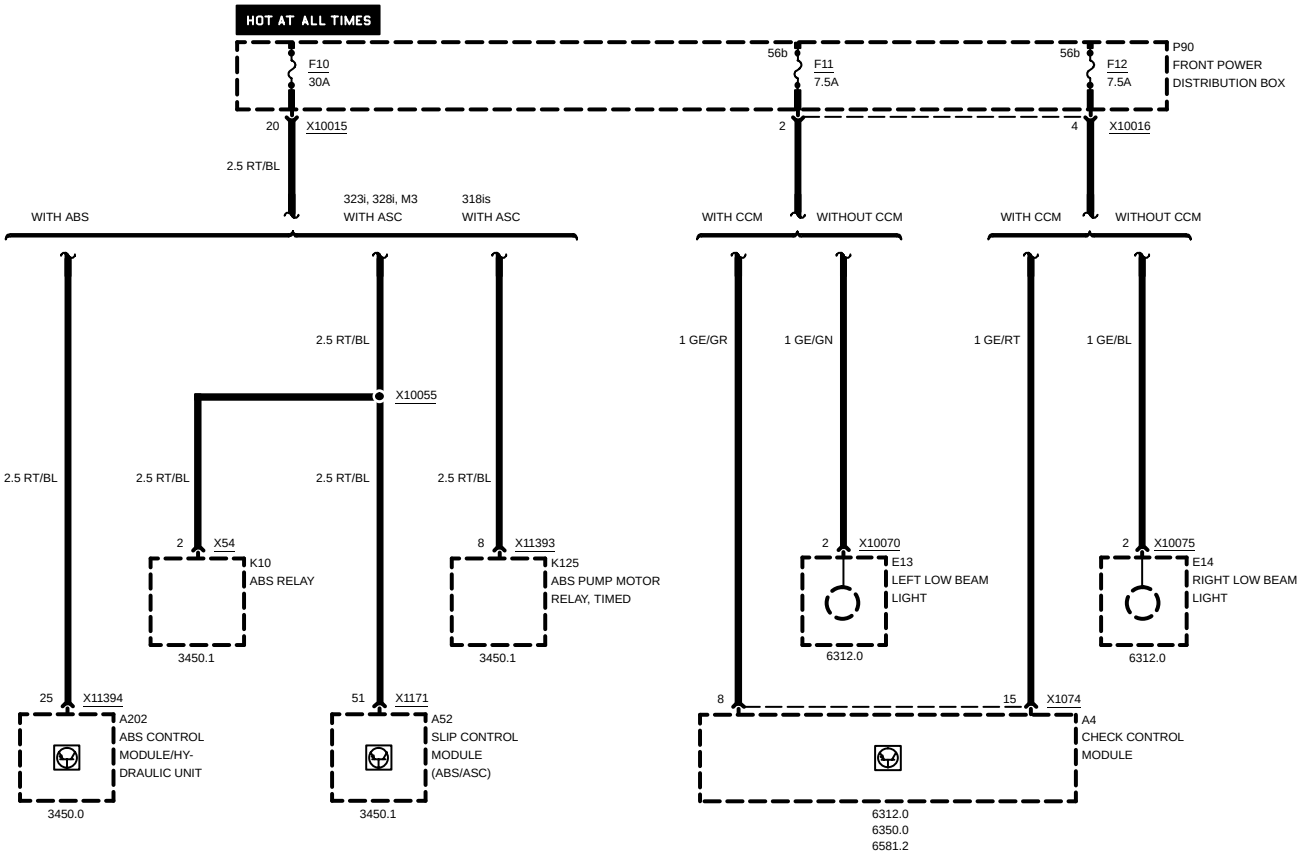
FUSES 8 AND 9



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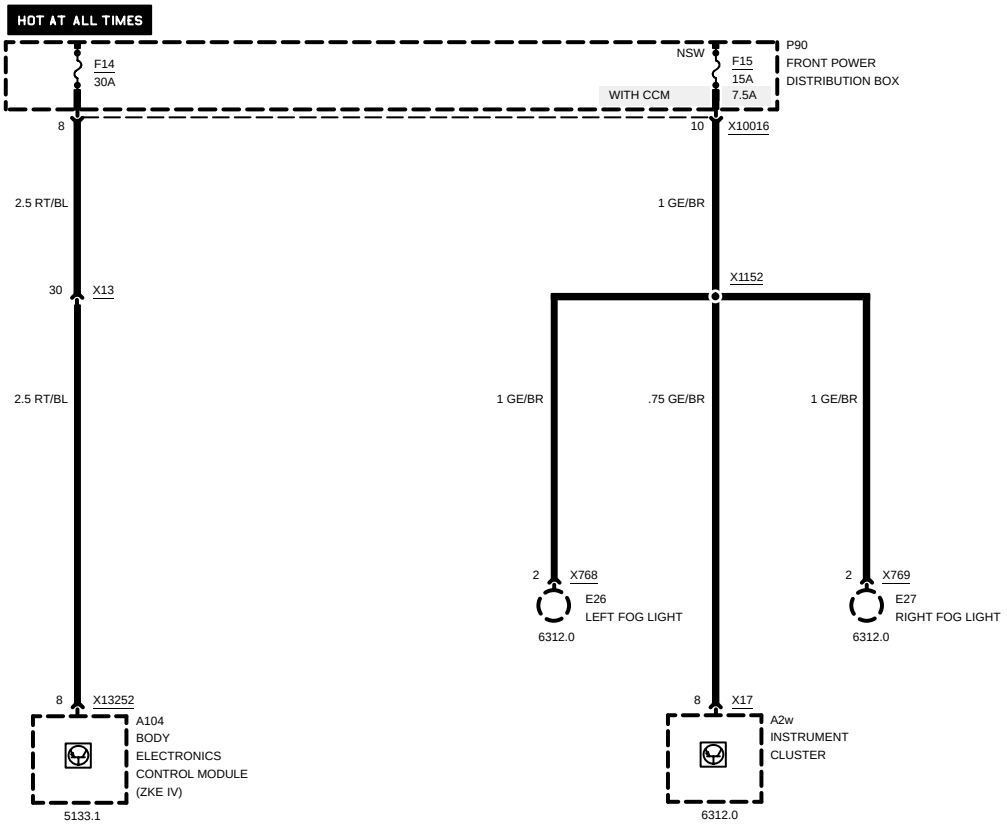
FUSES 10, 11, AND 12



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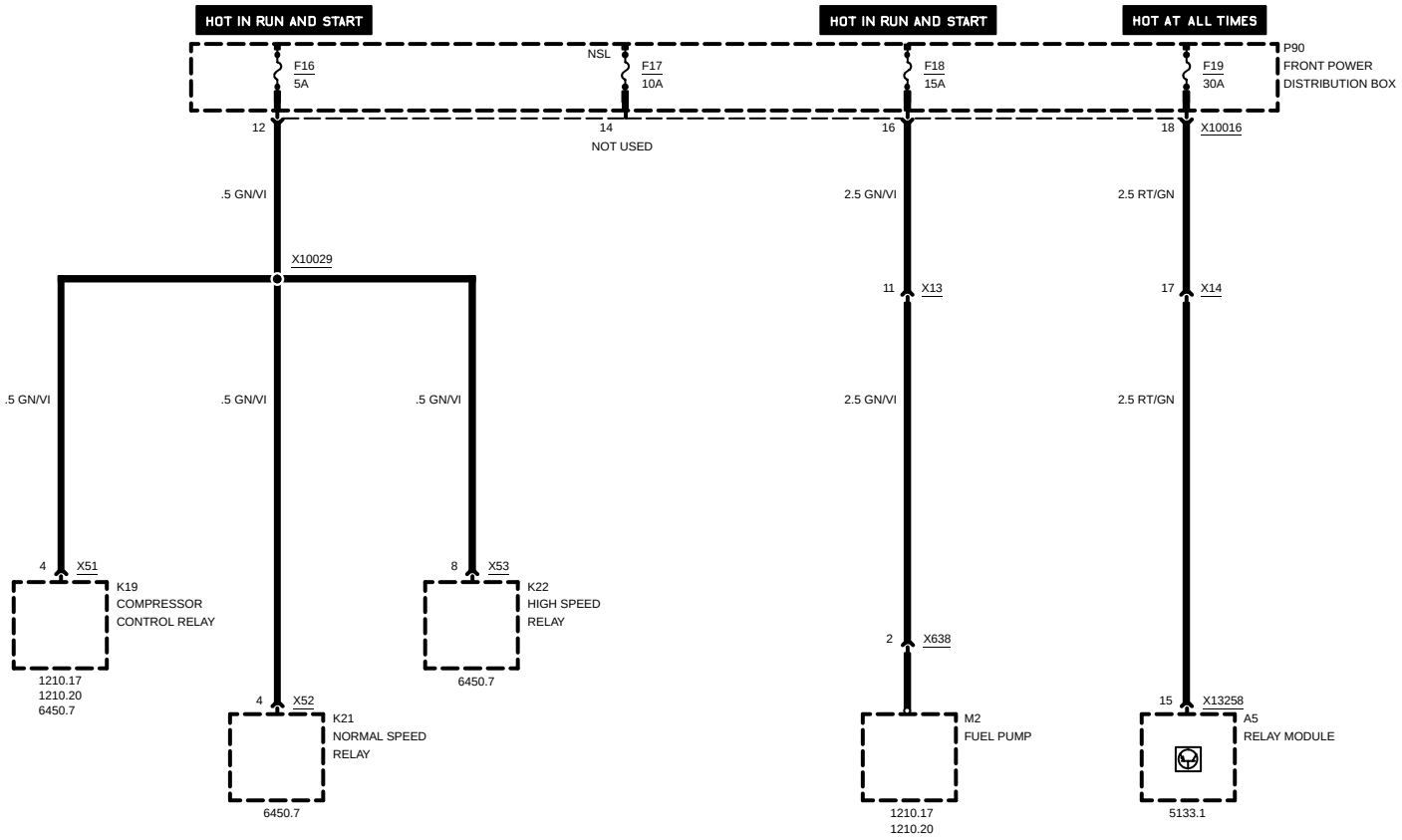
FUSES 14 AND 15



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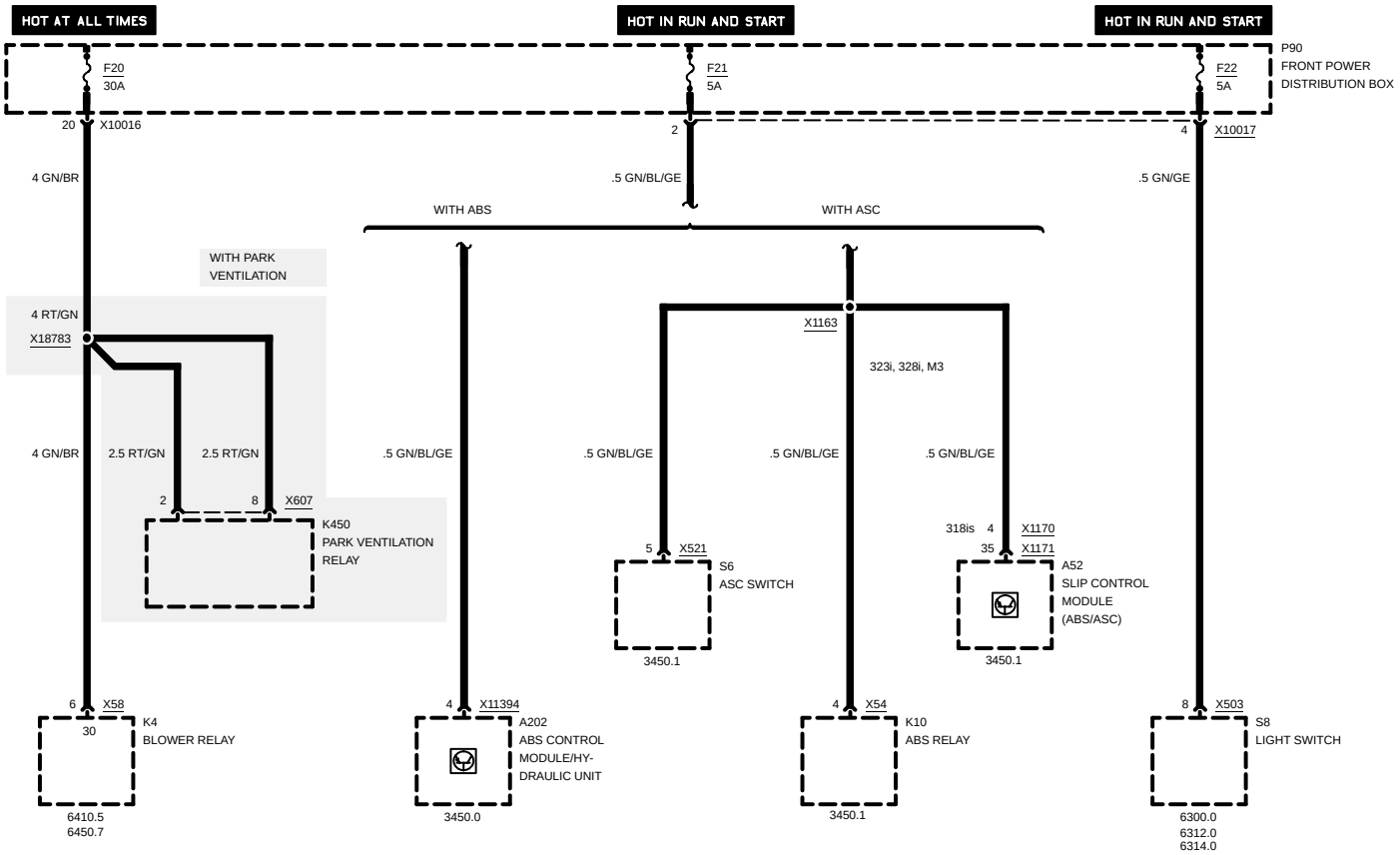
FUSES 16, 17, 18, AND 19



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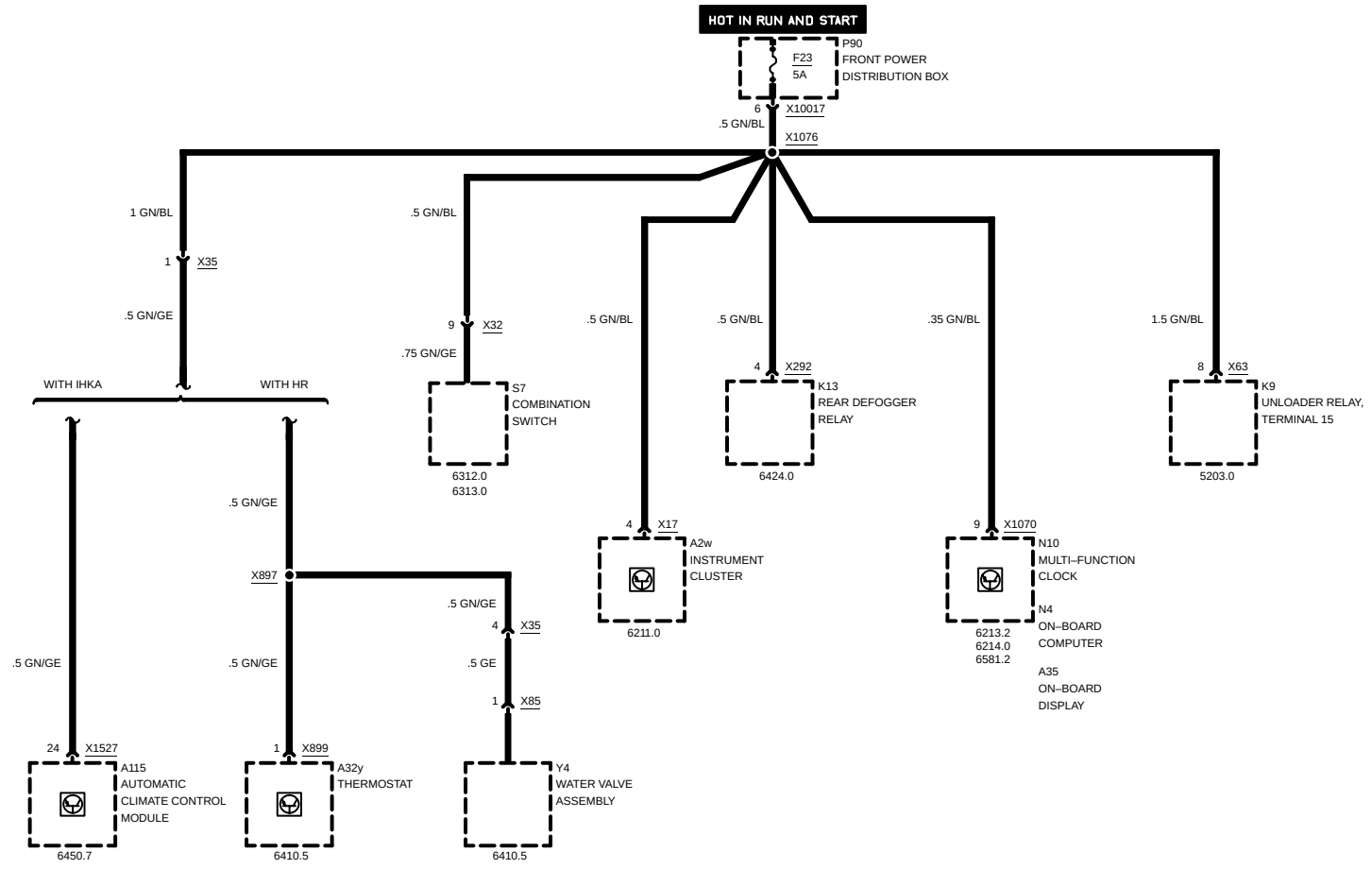
FUSES 20, 21, AND 22



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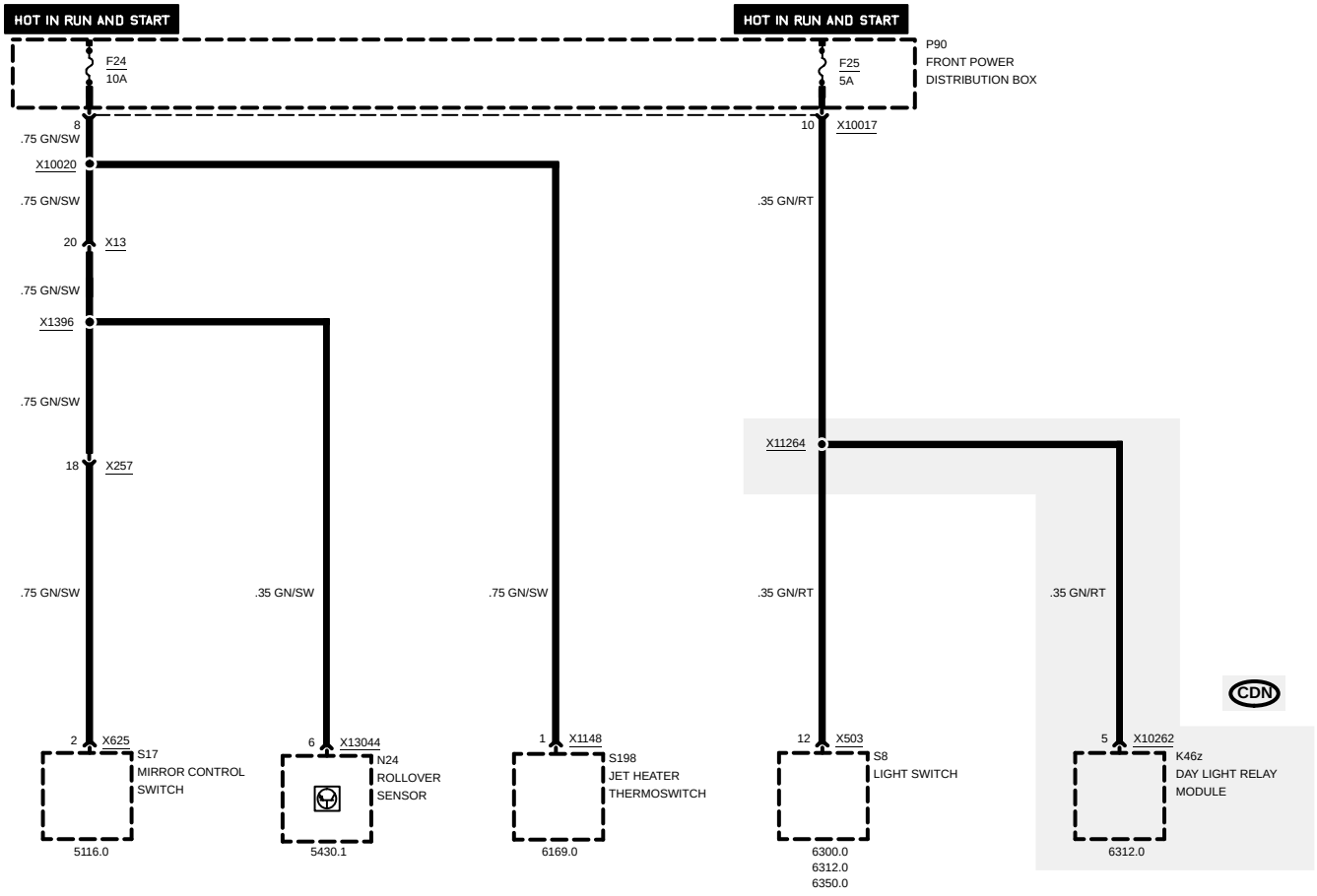
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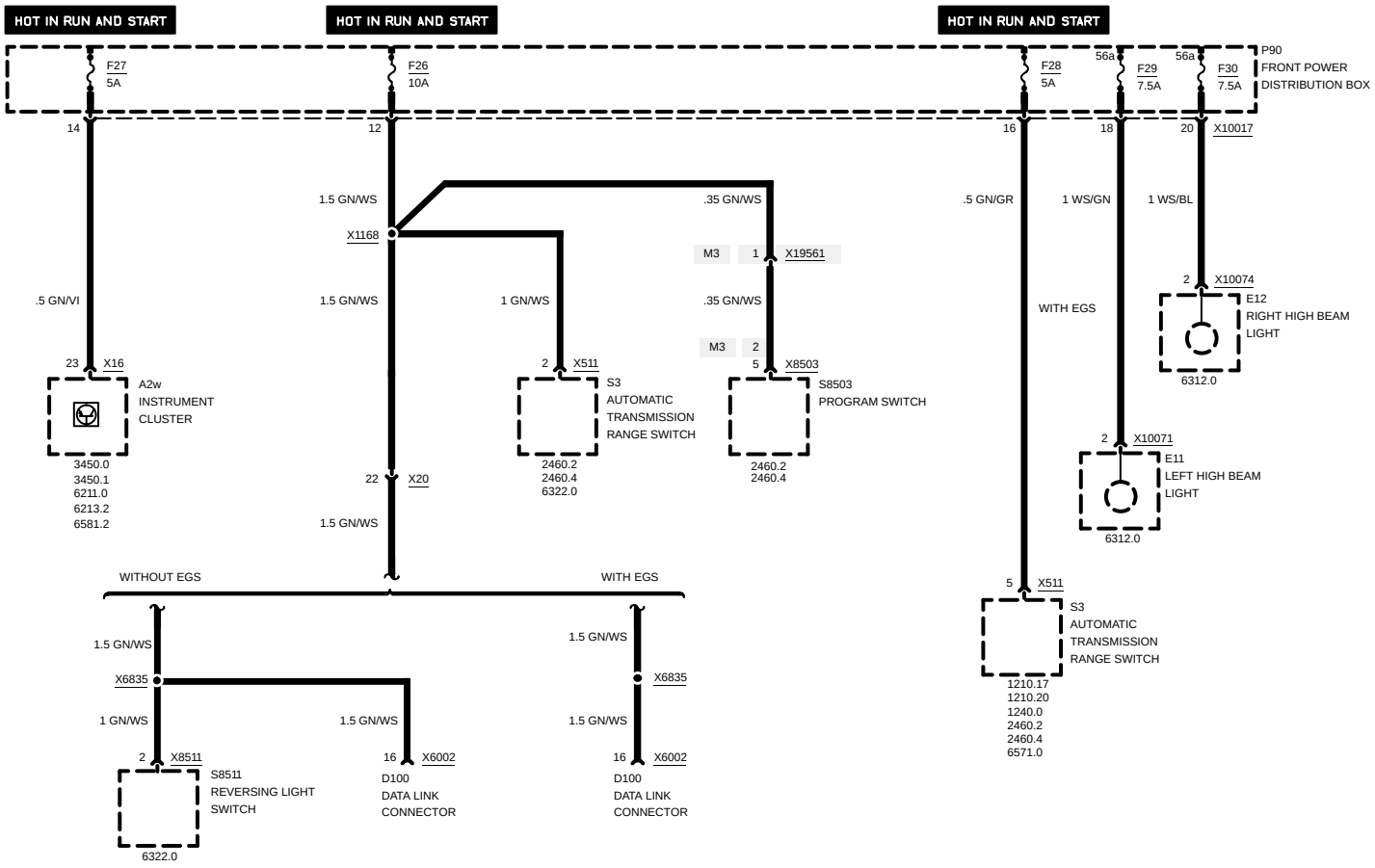
FUSES 24 AND 25



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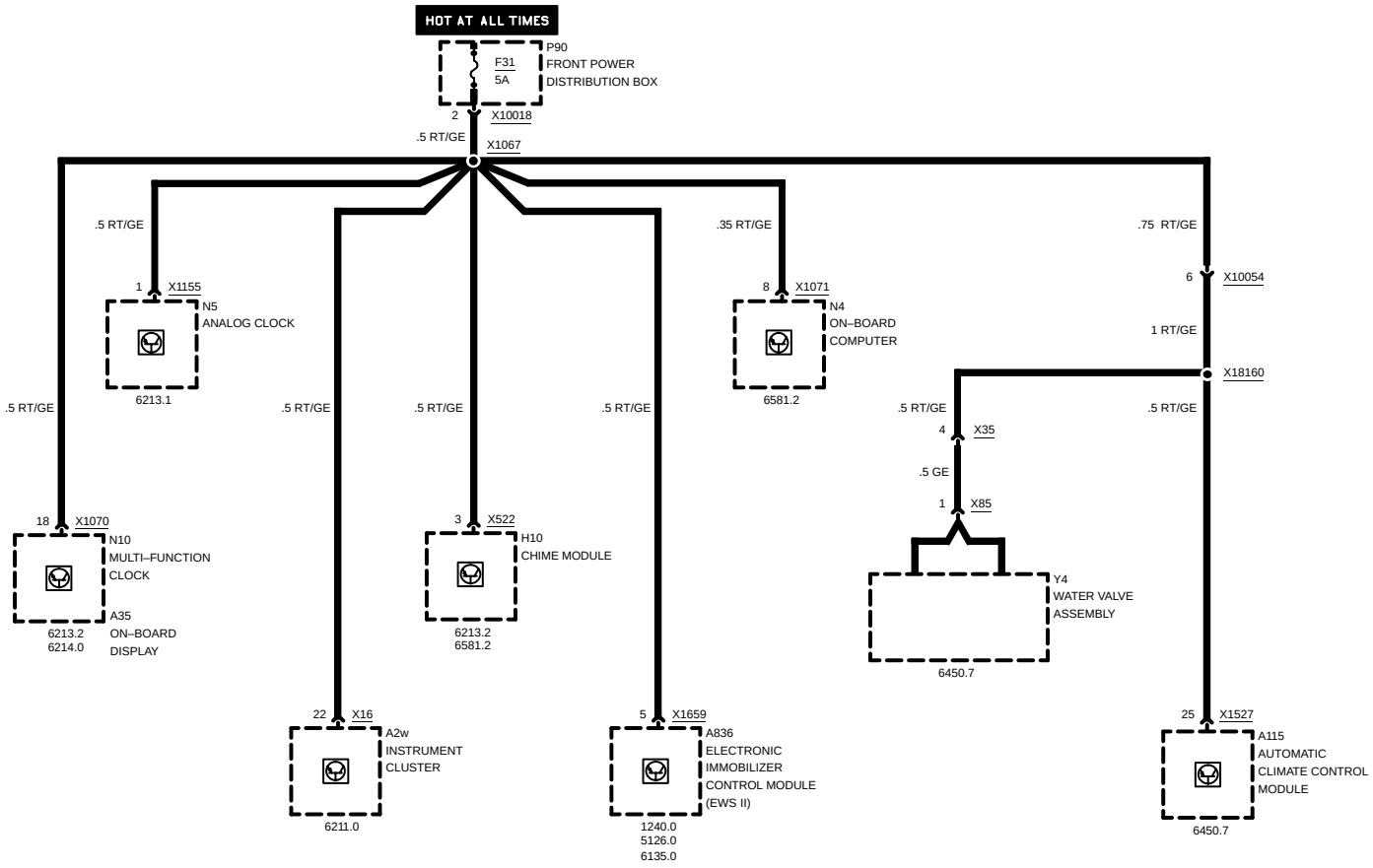
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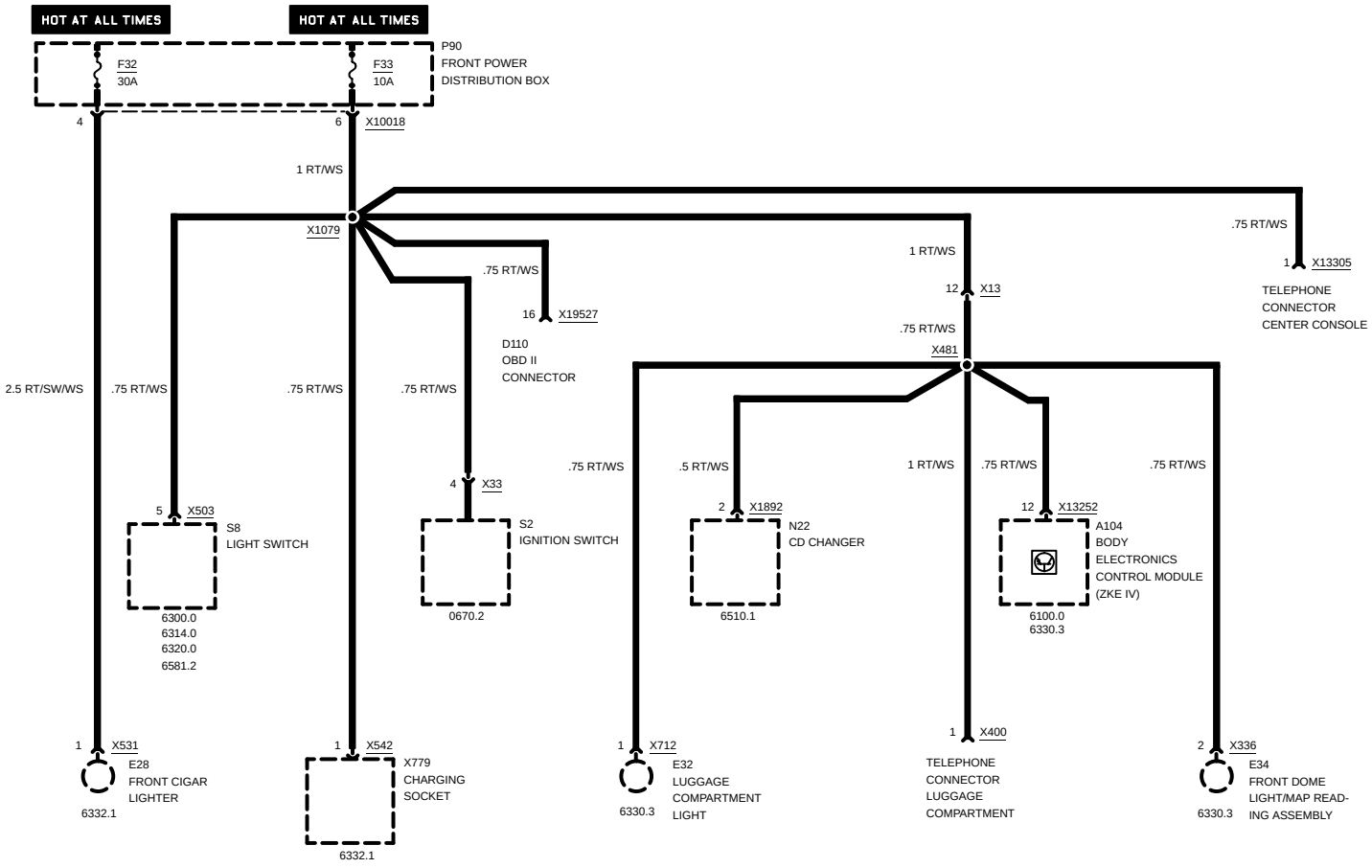
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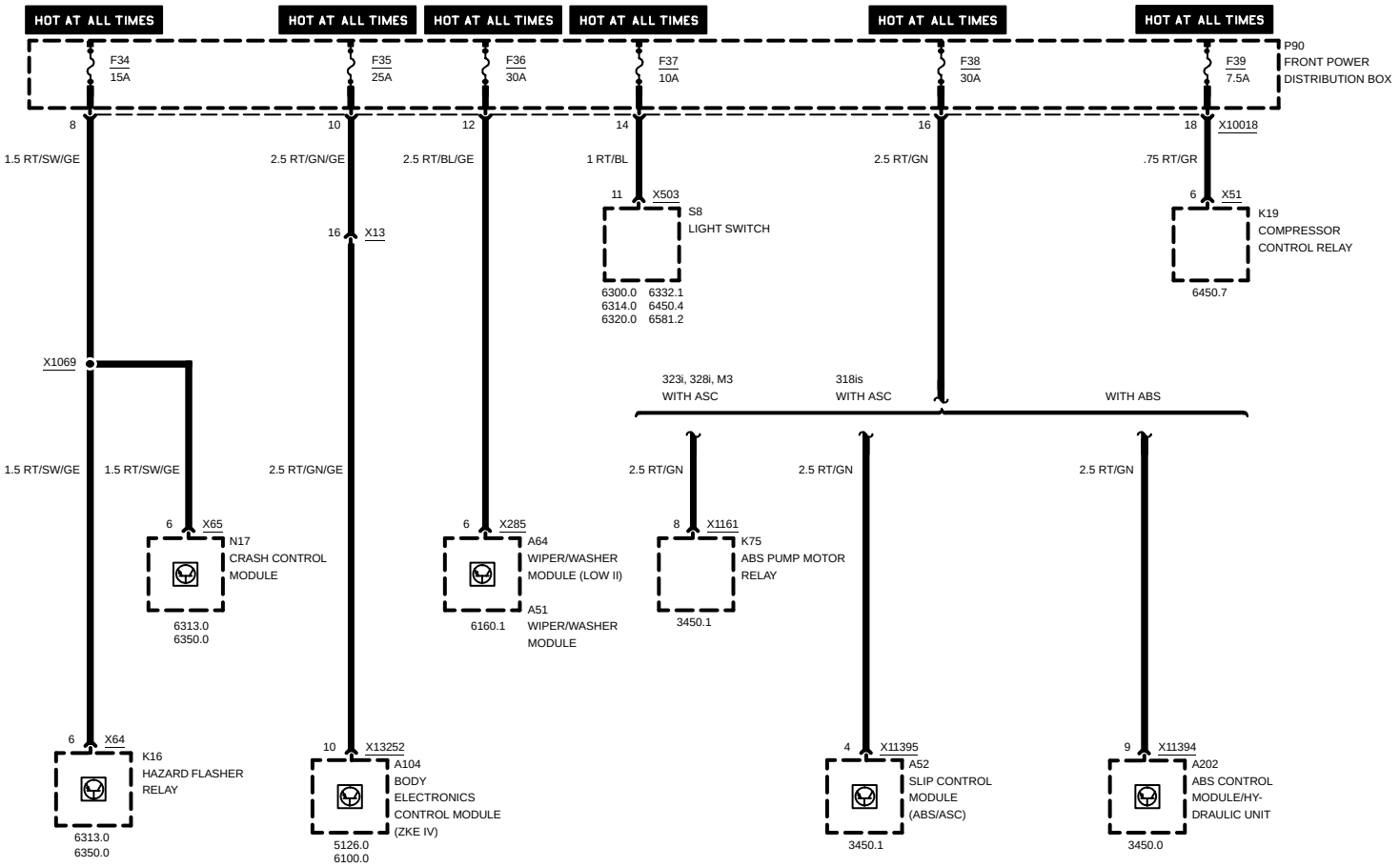
FUSES 32 AND 33



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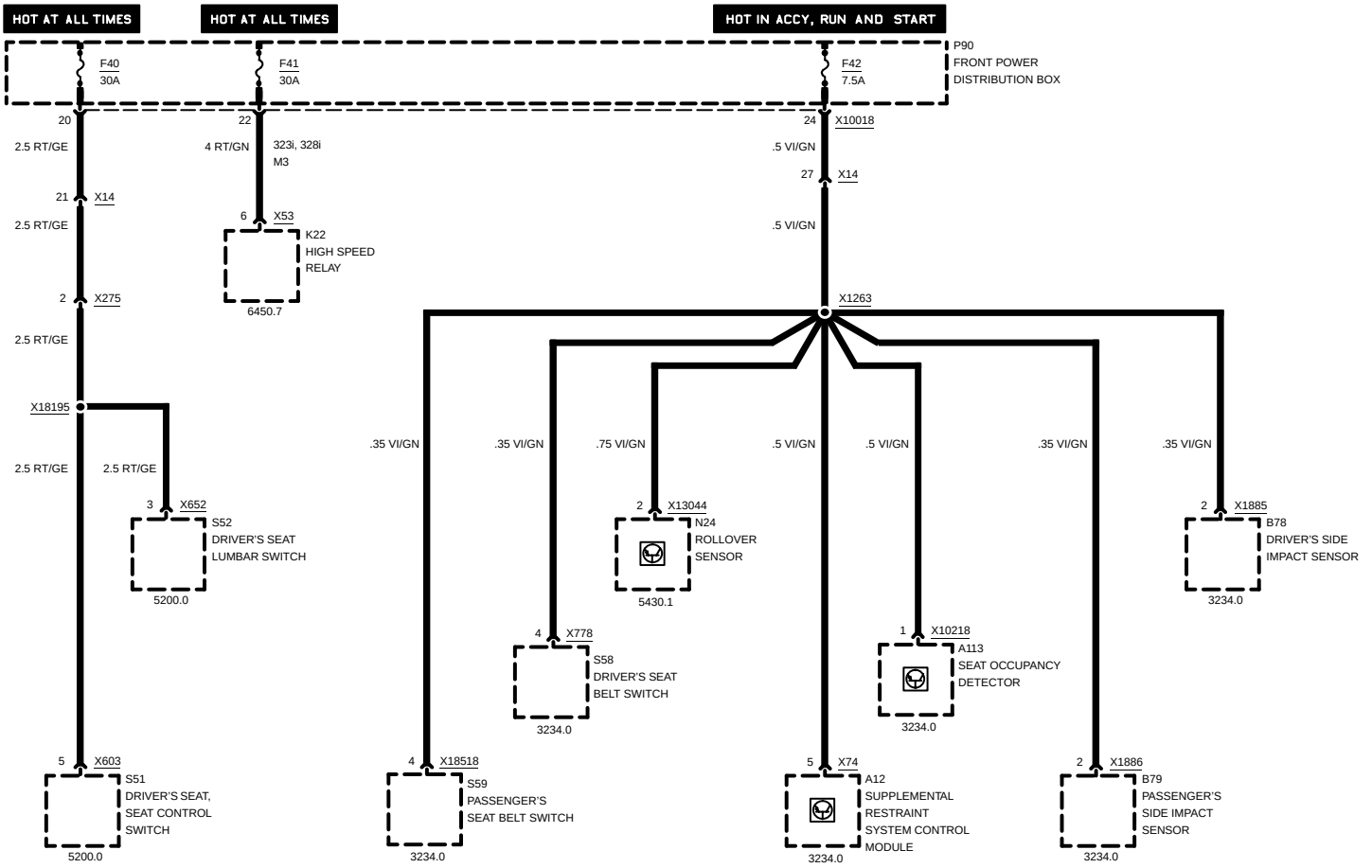
FUSES 34, 35, 36, 37, 38, AND 39



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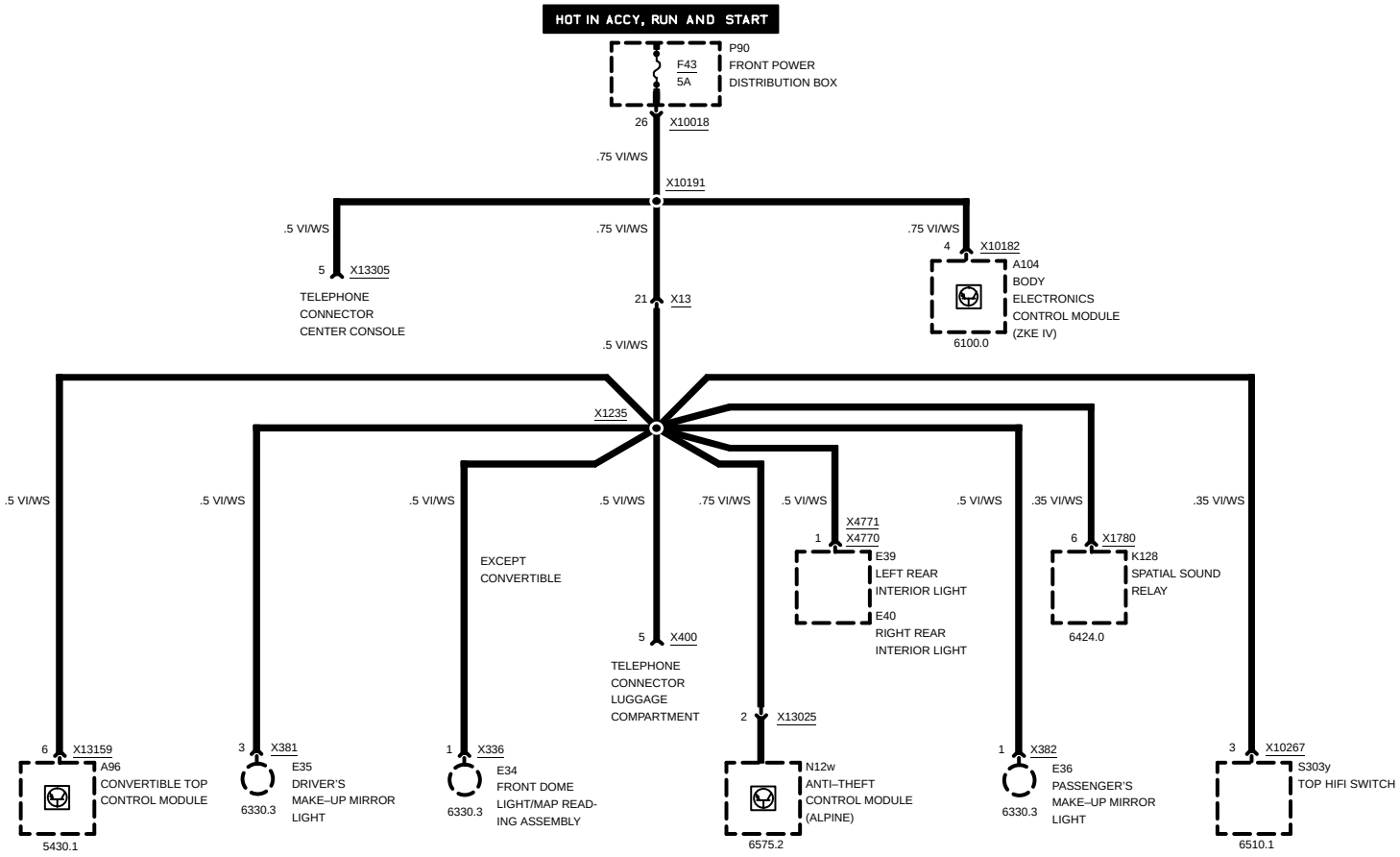
FUSES 40, 41, AND 42



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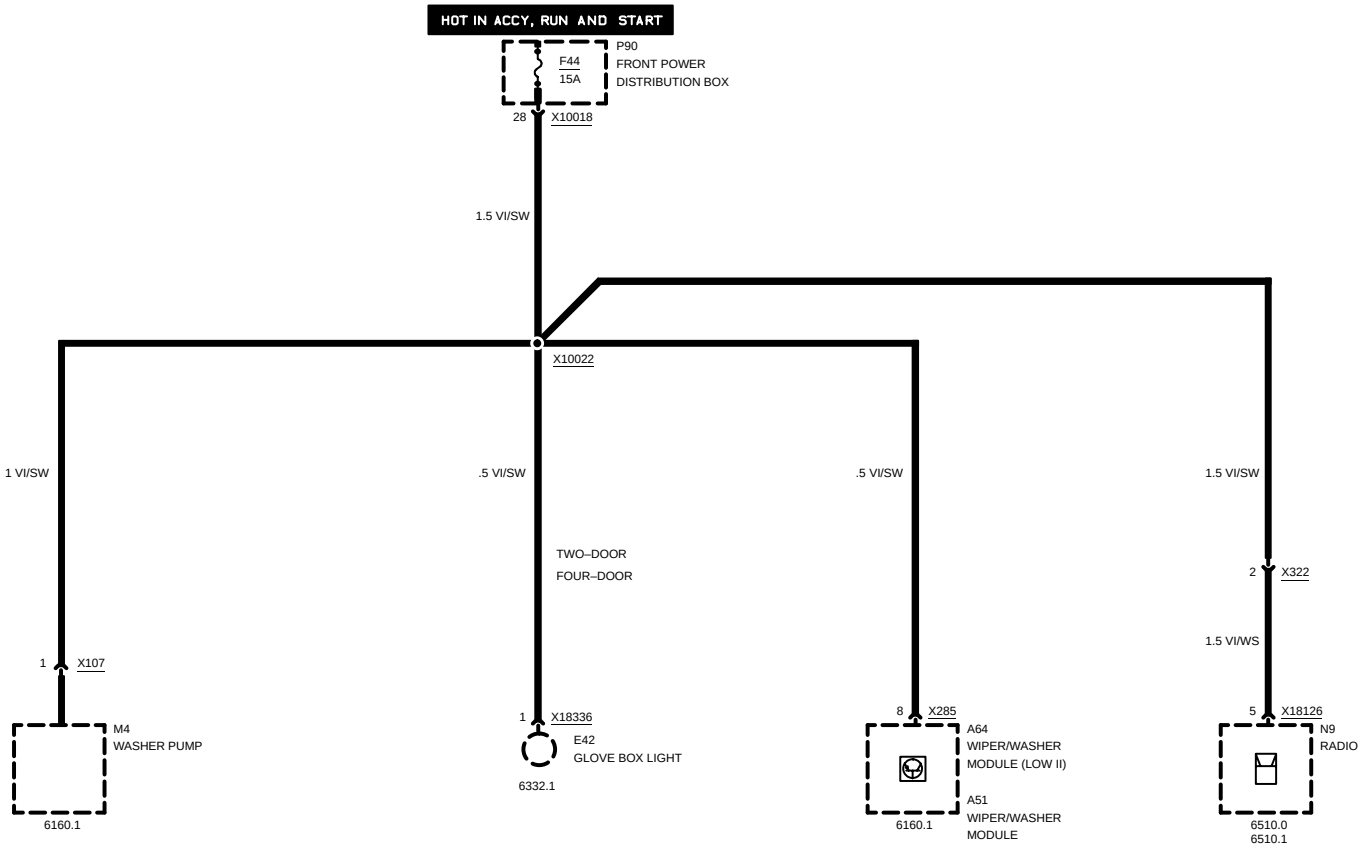
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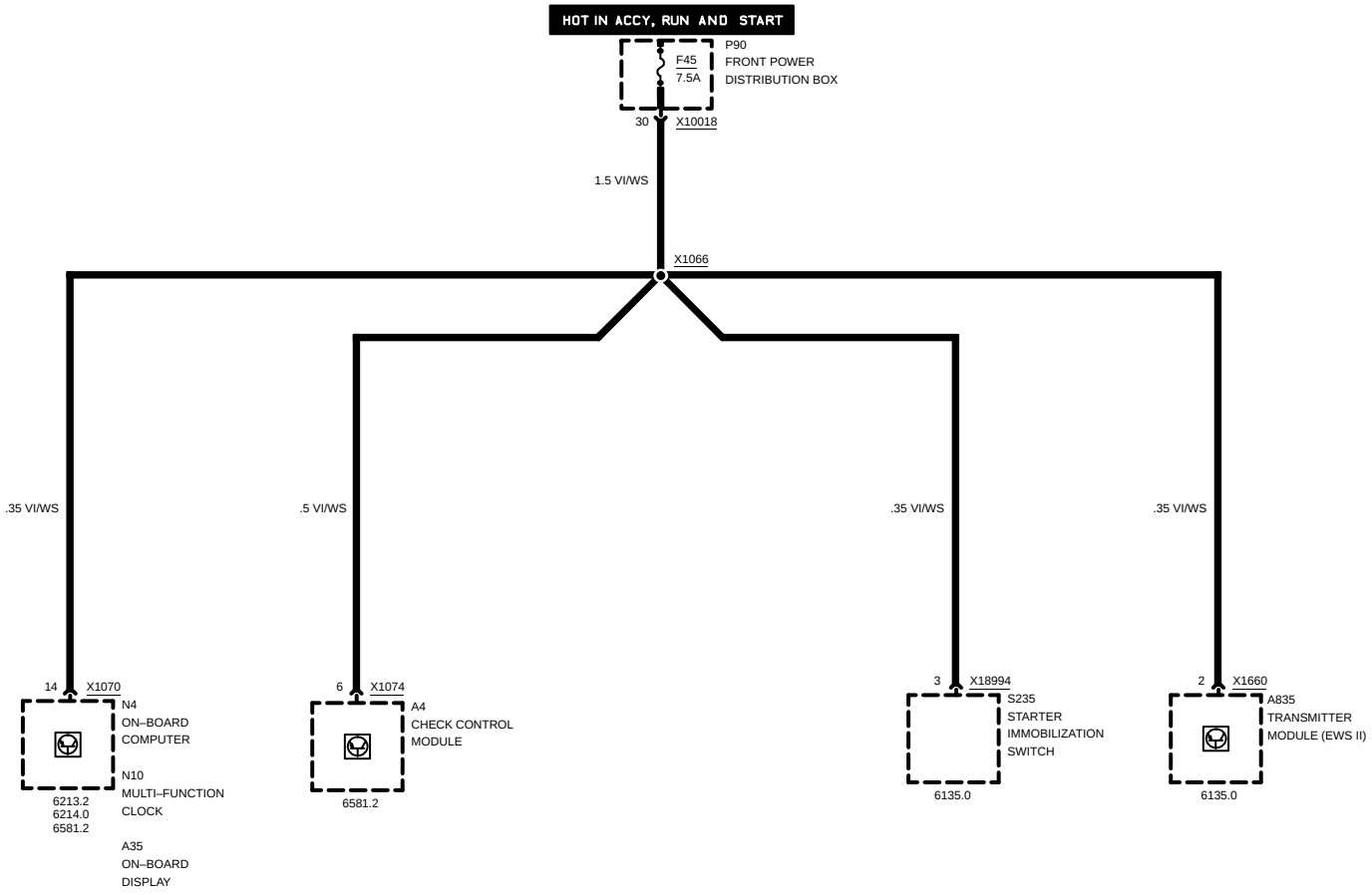
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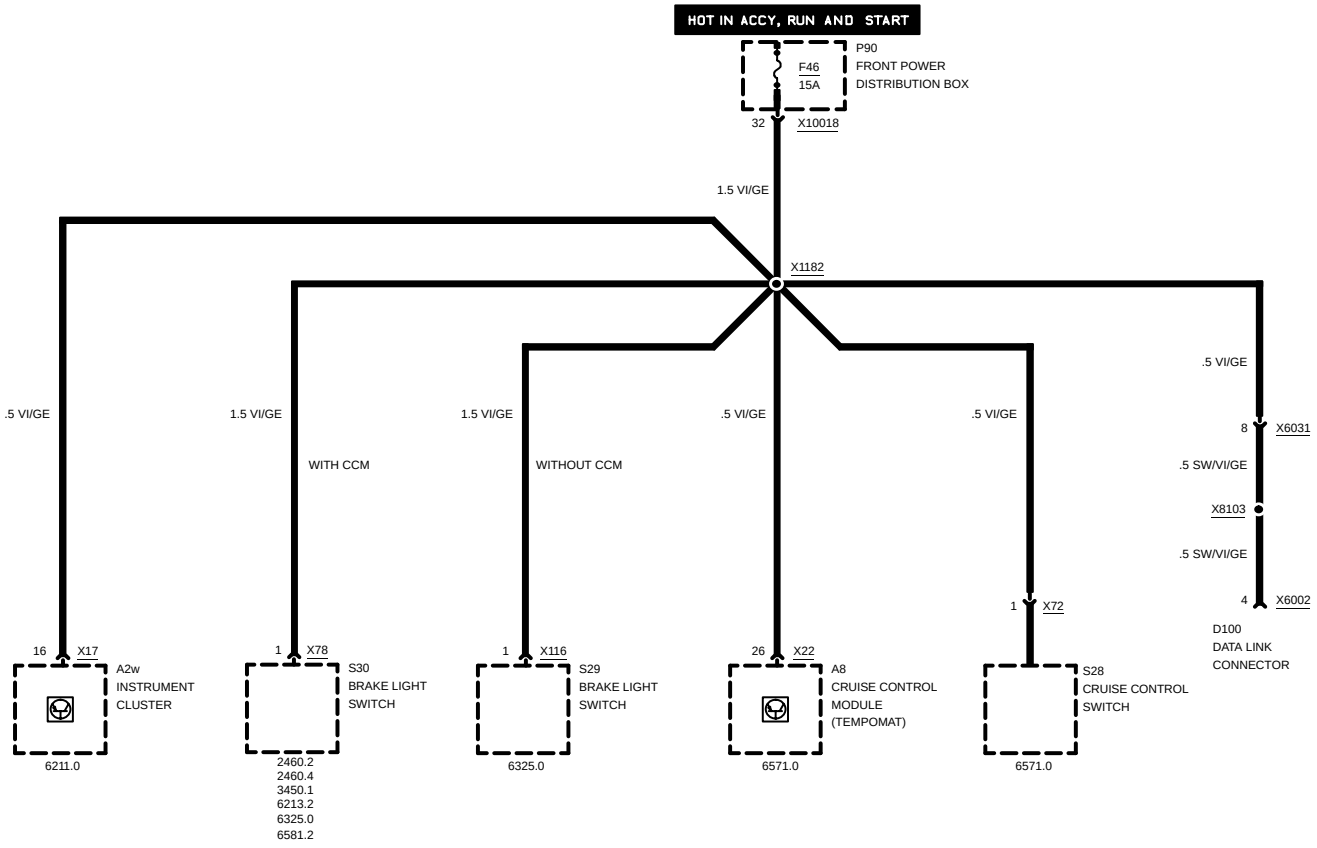
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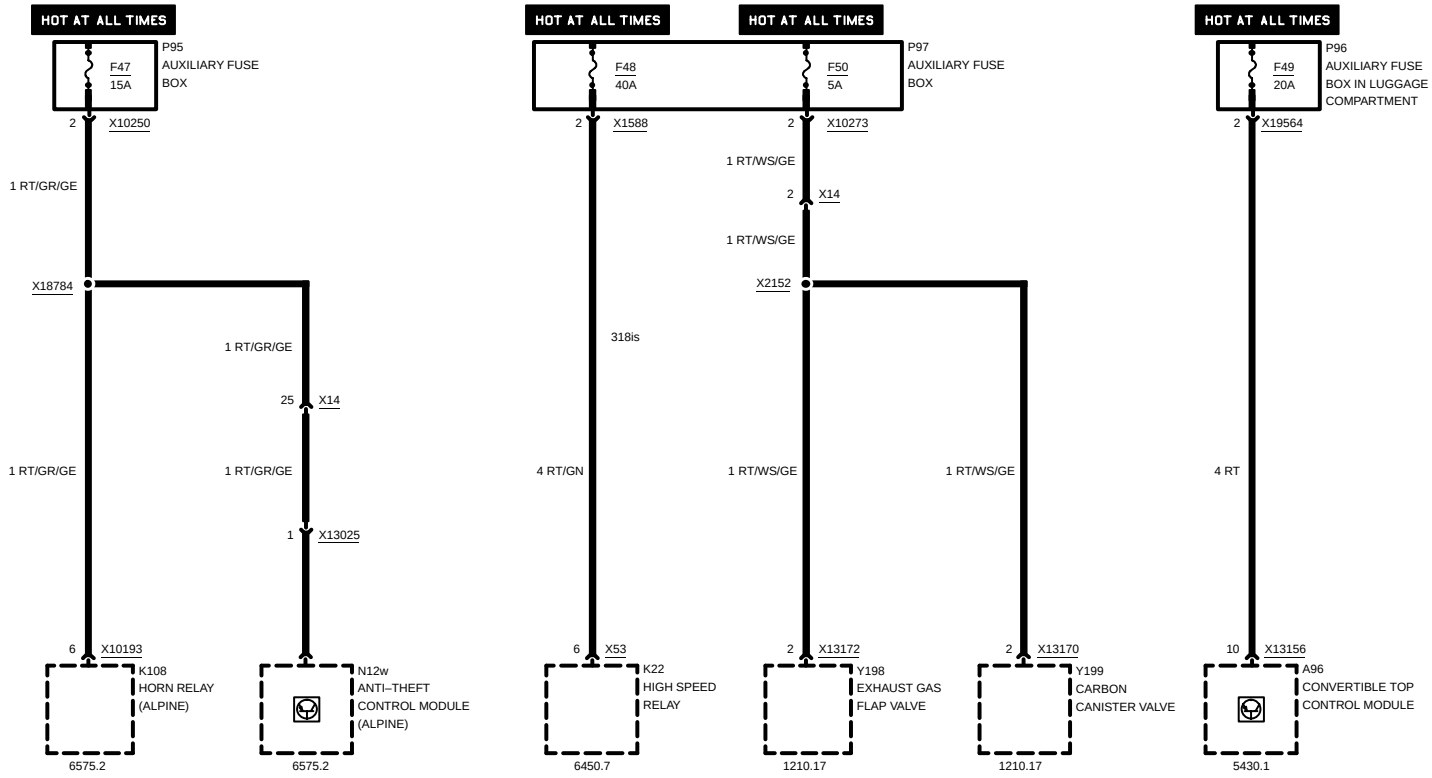
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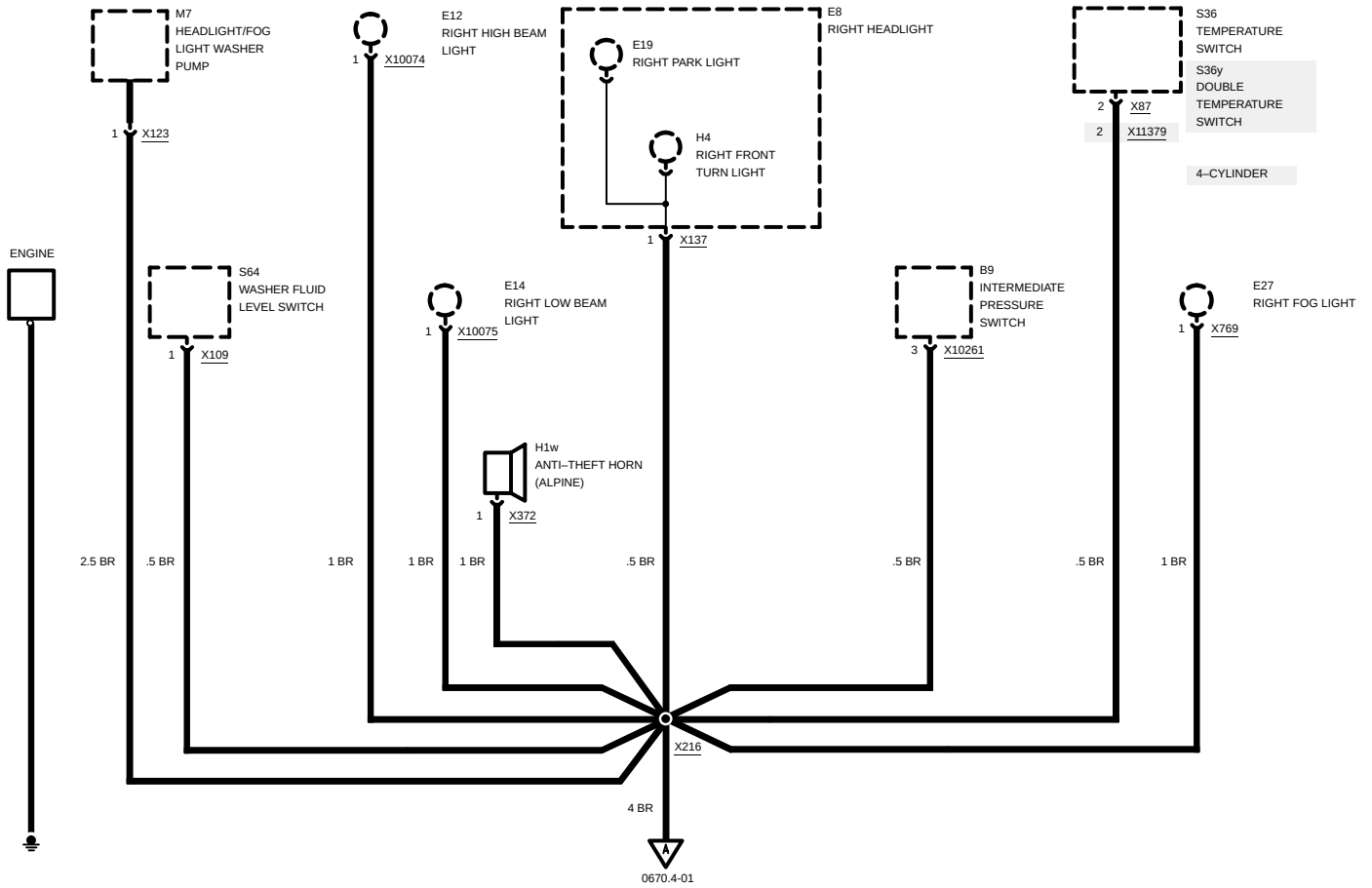
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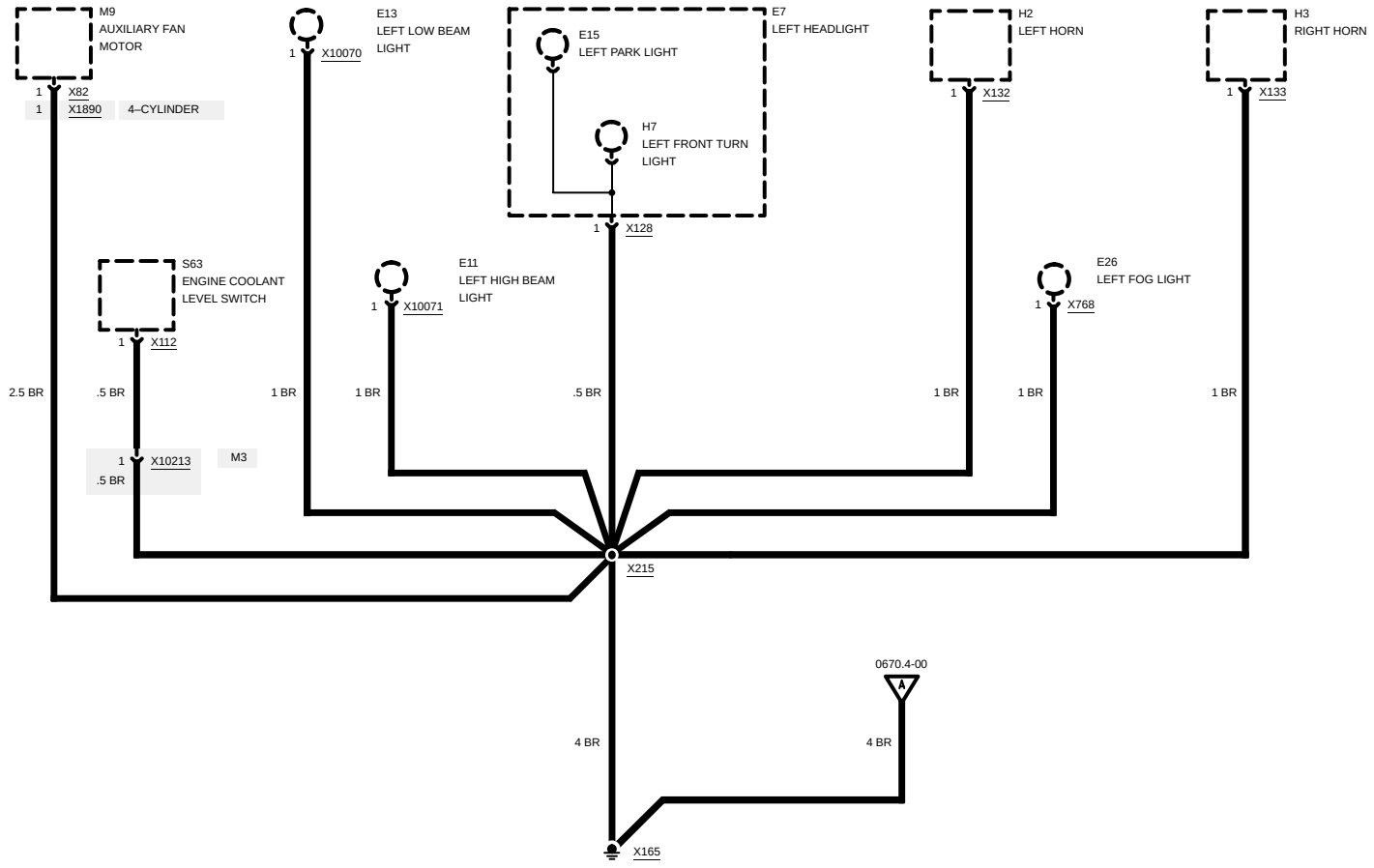
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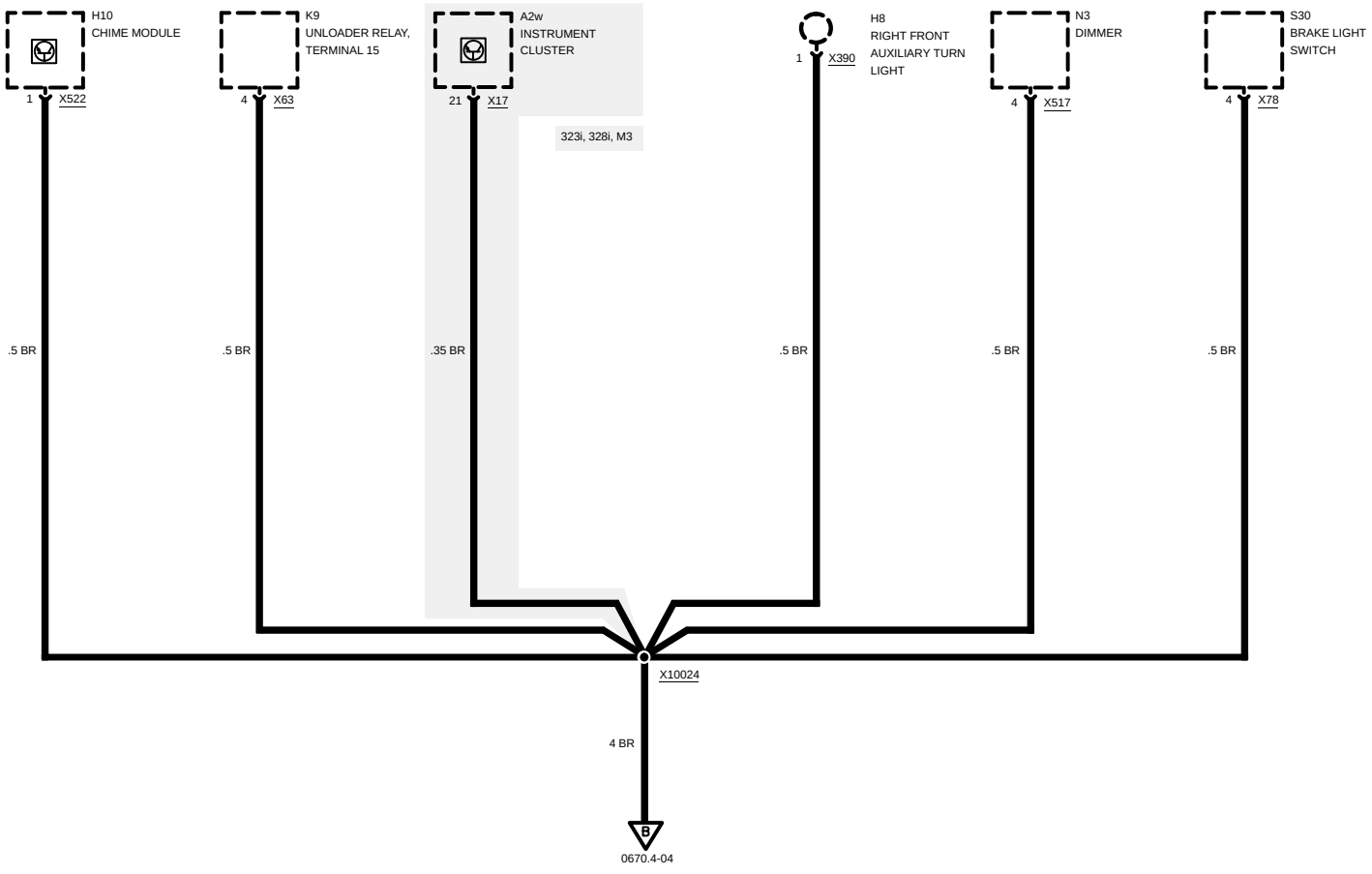
GROUND X165



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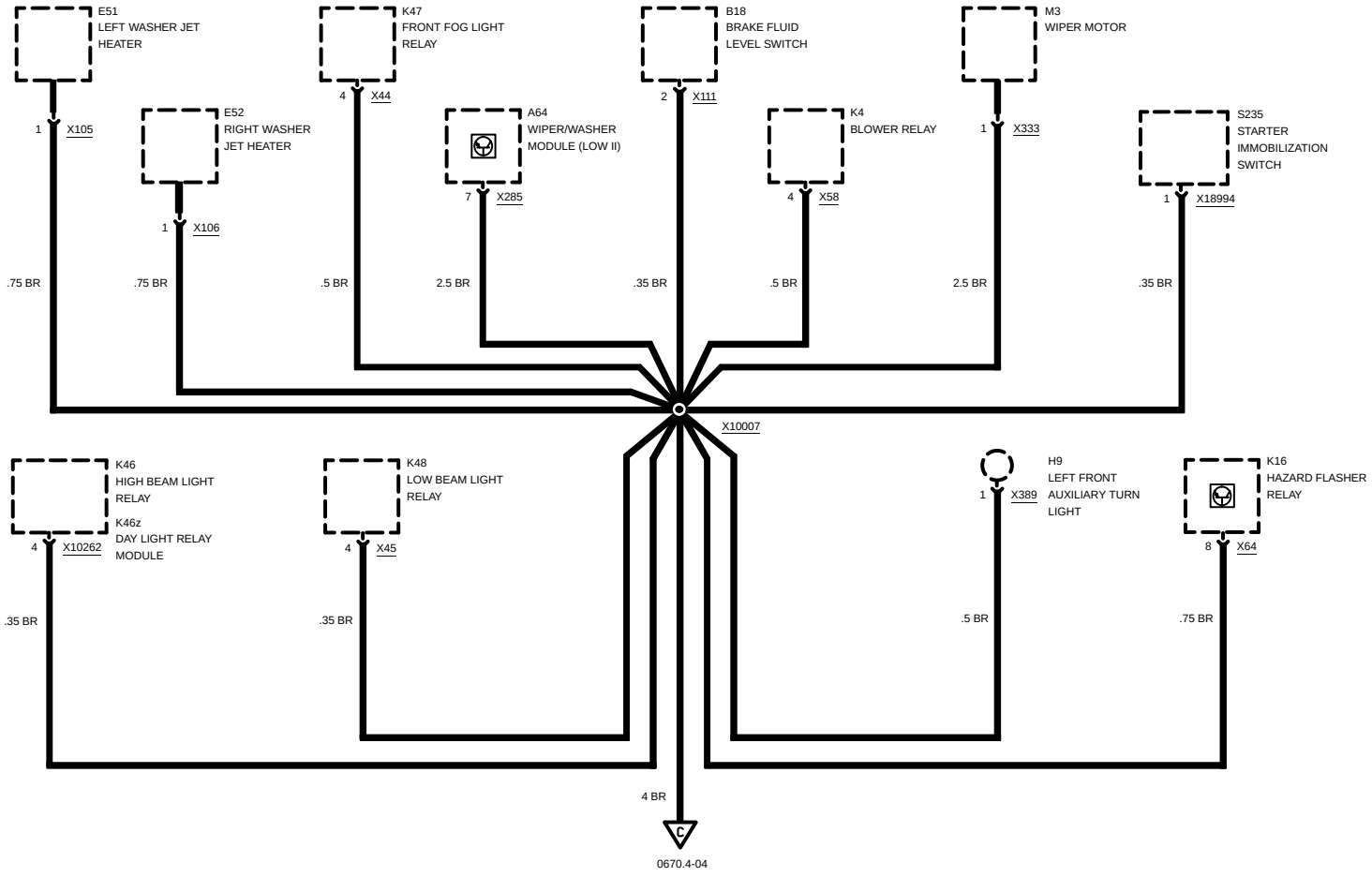
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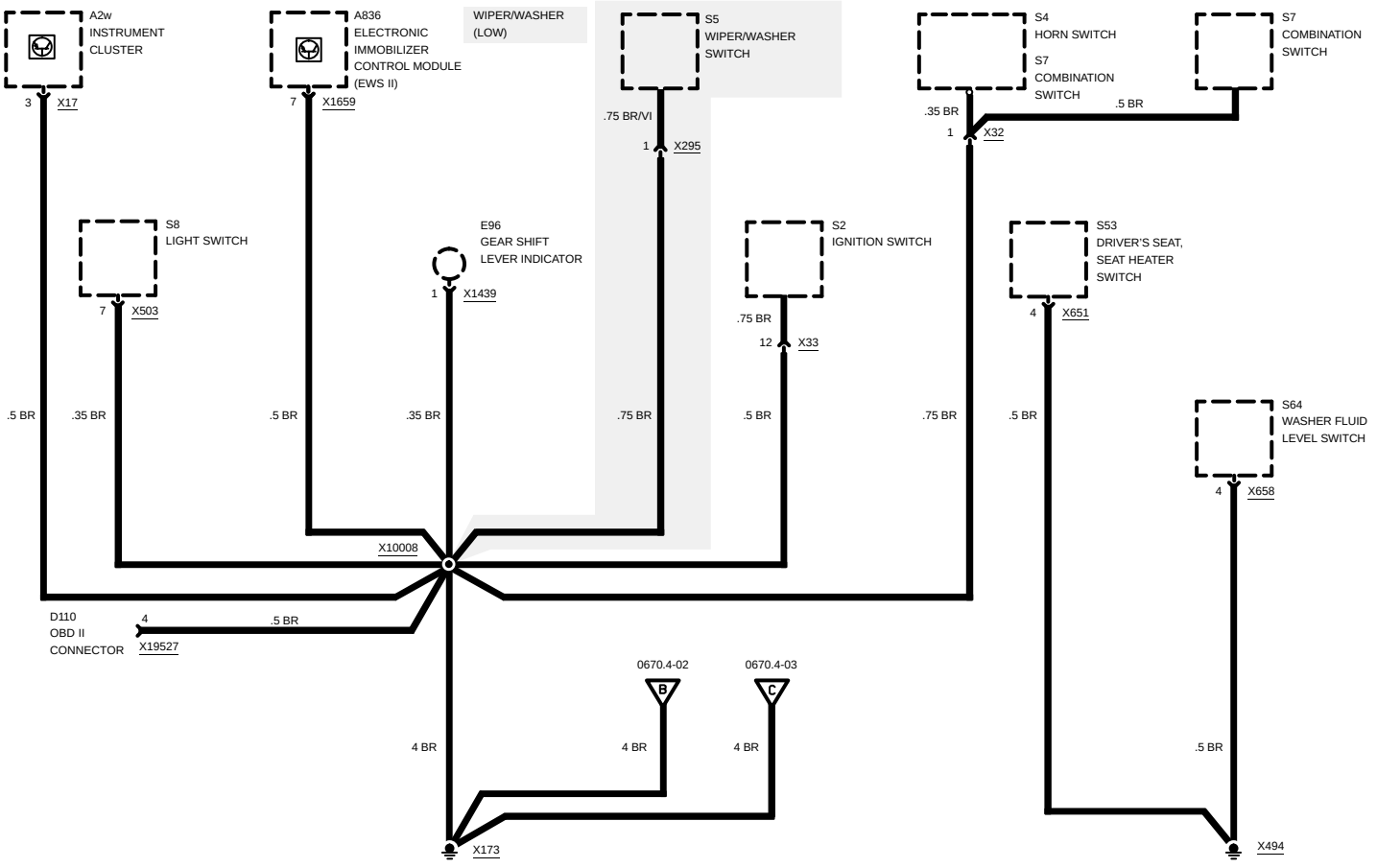
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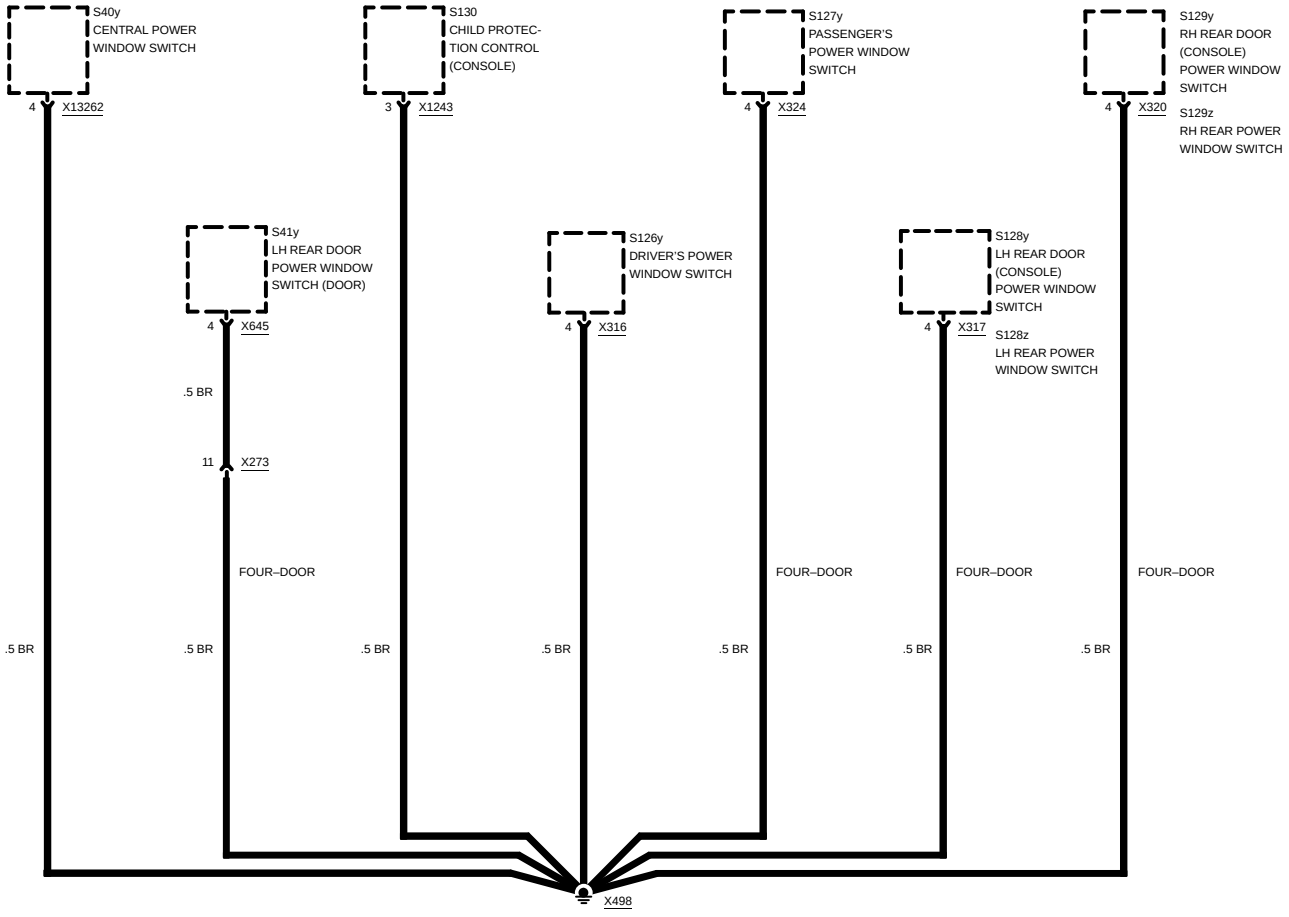
GROUNDS X173 AND X494



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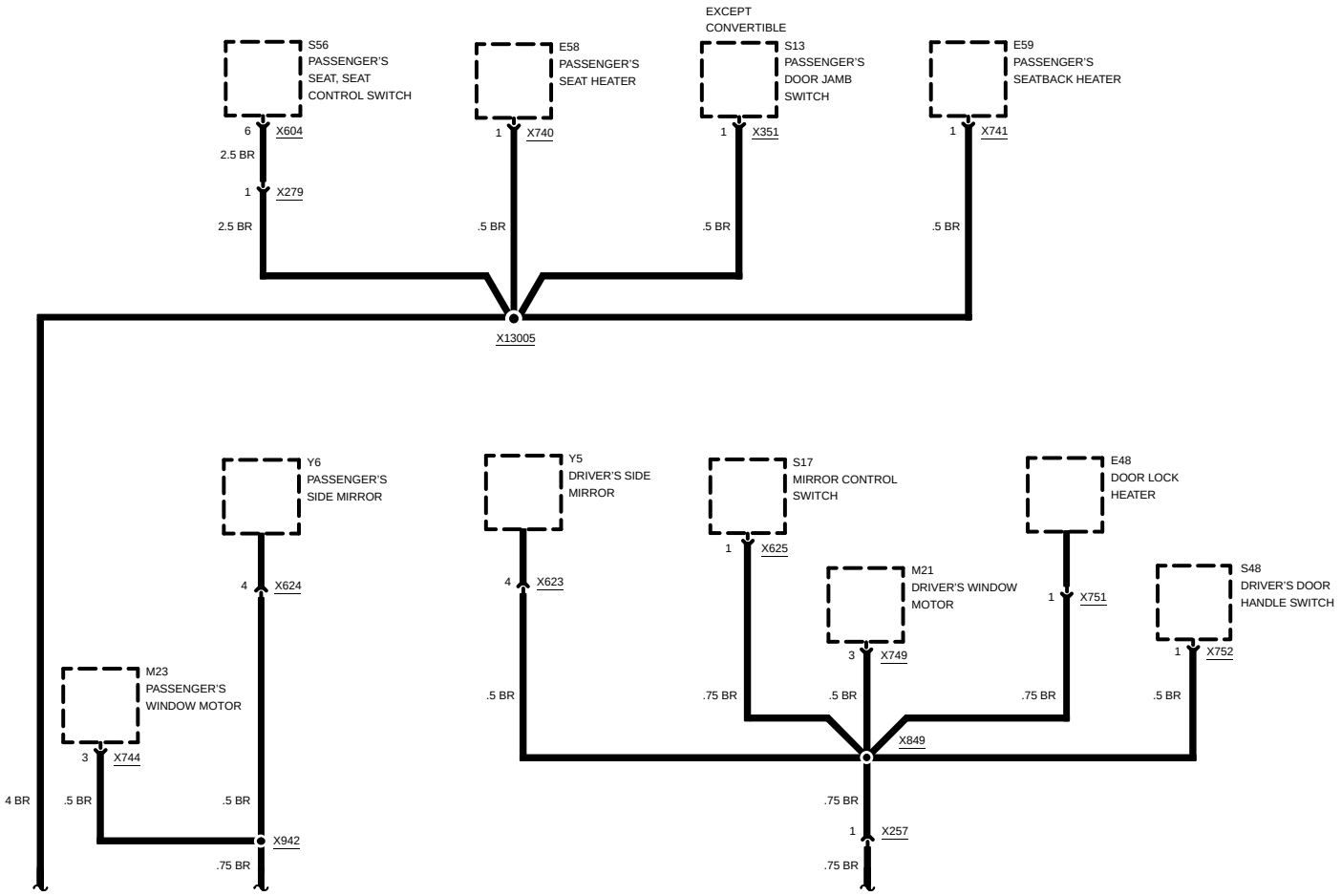
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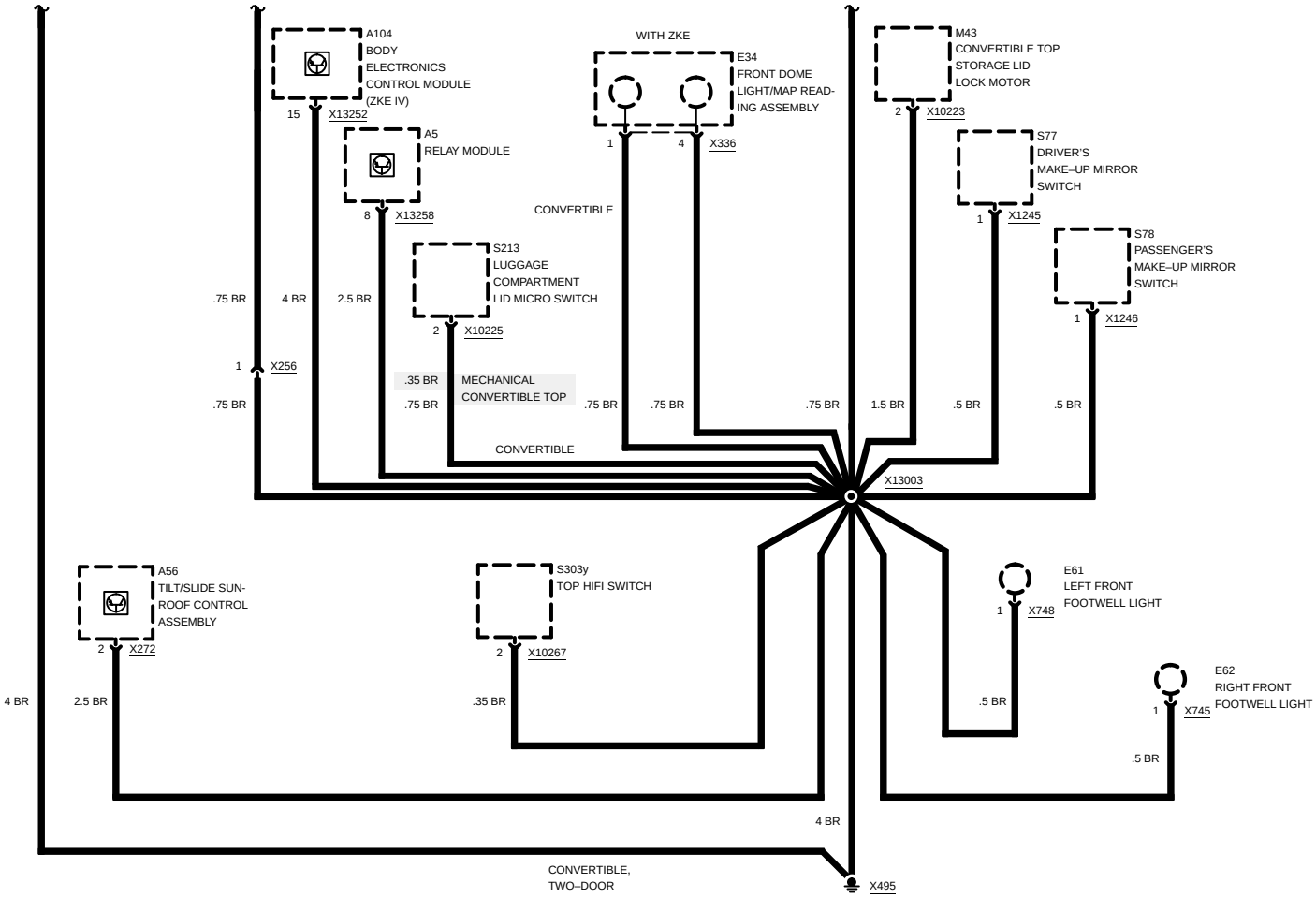
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GROUND X495



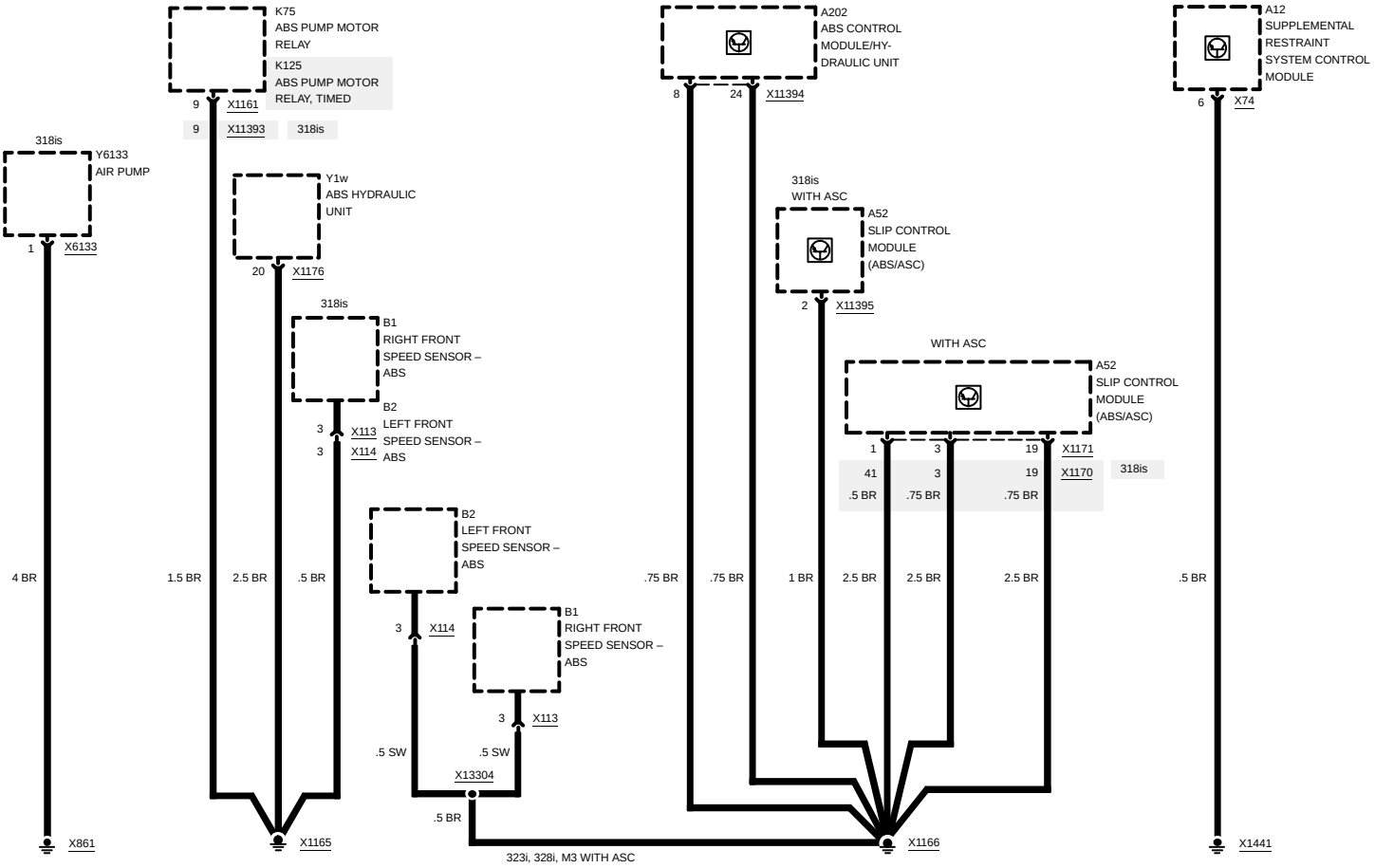
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GROUNDS X861, X1165, X1166, AND X1441

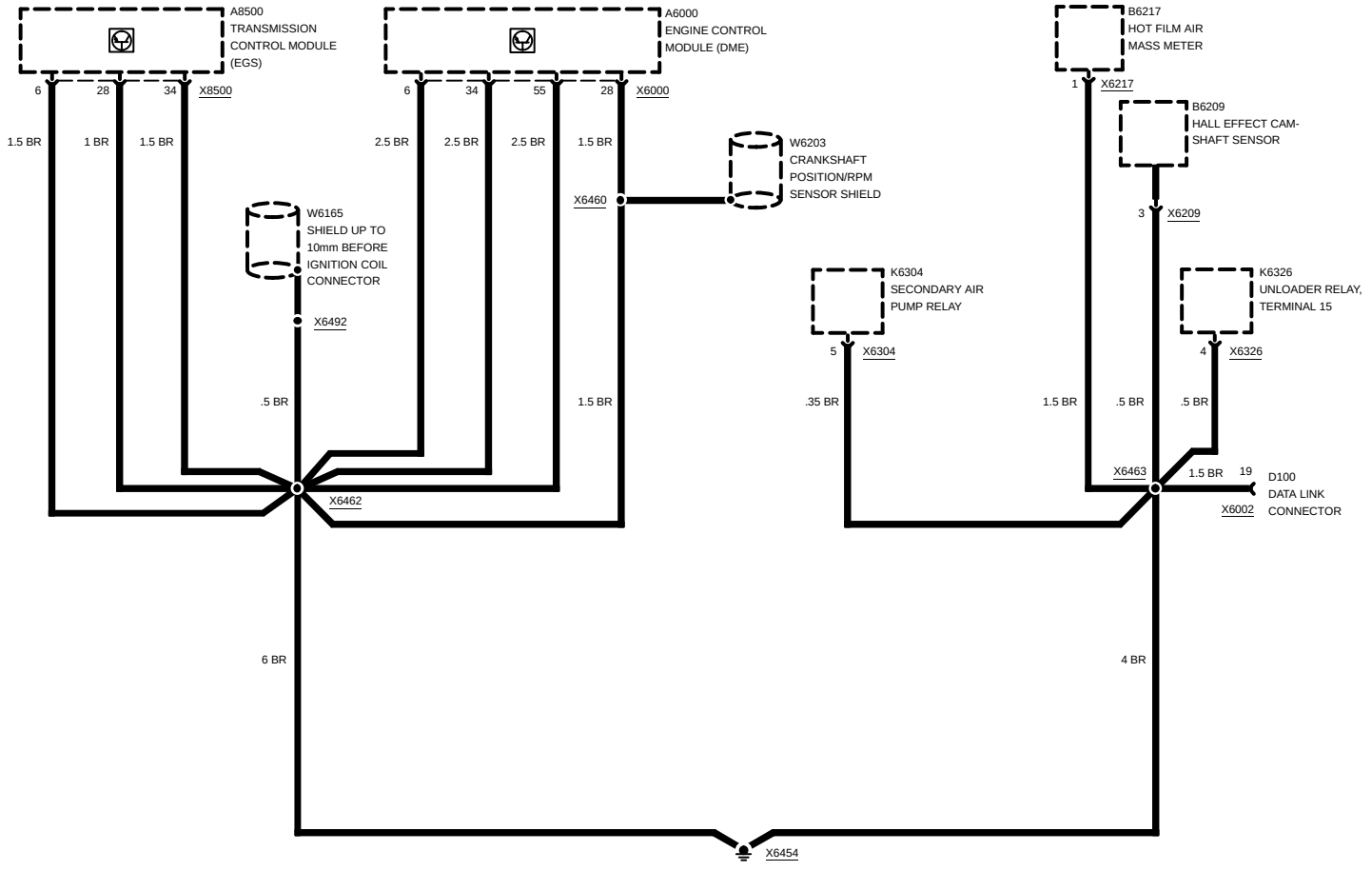


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GROUND X6454

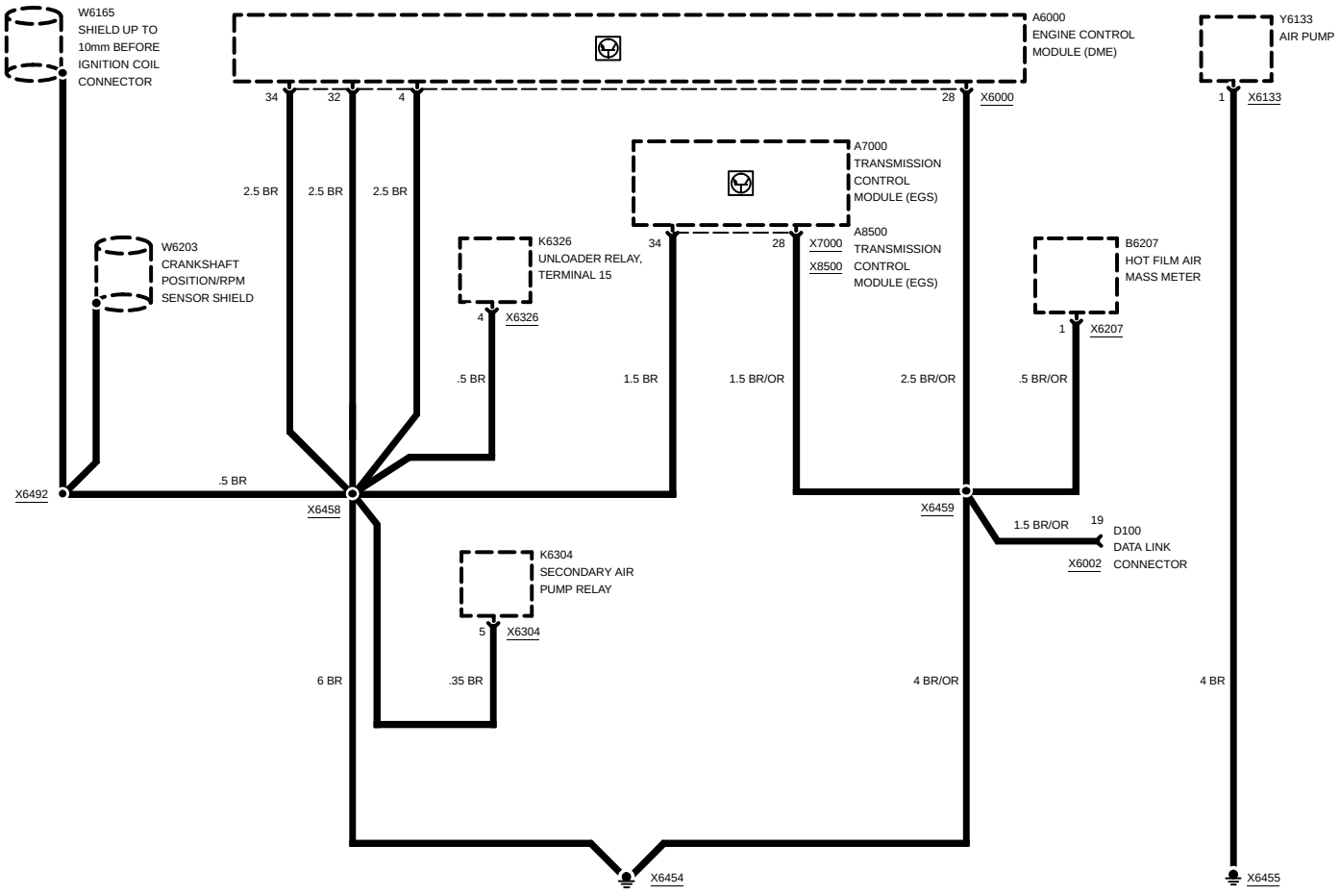


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323i, 328i, M3

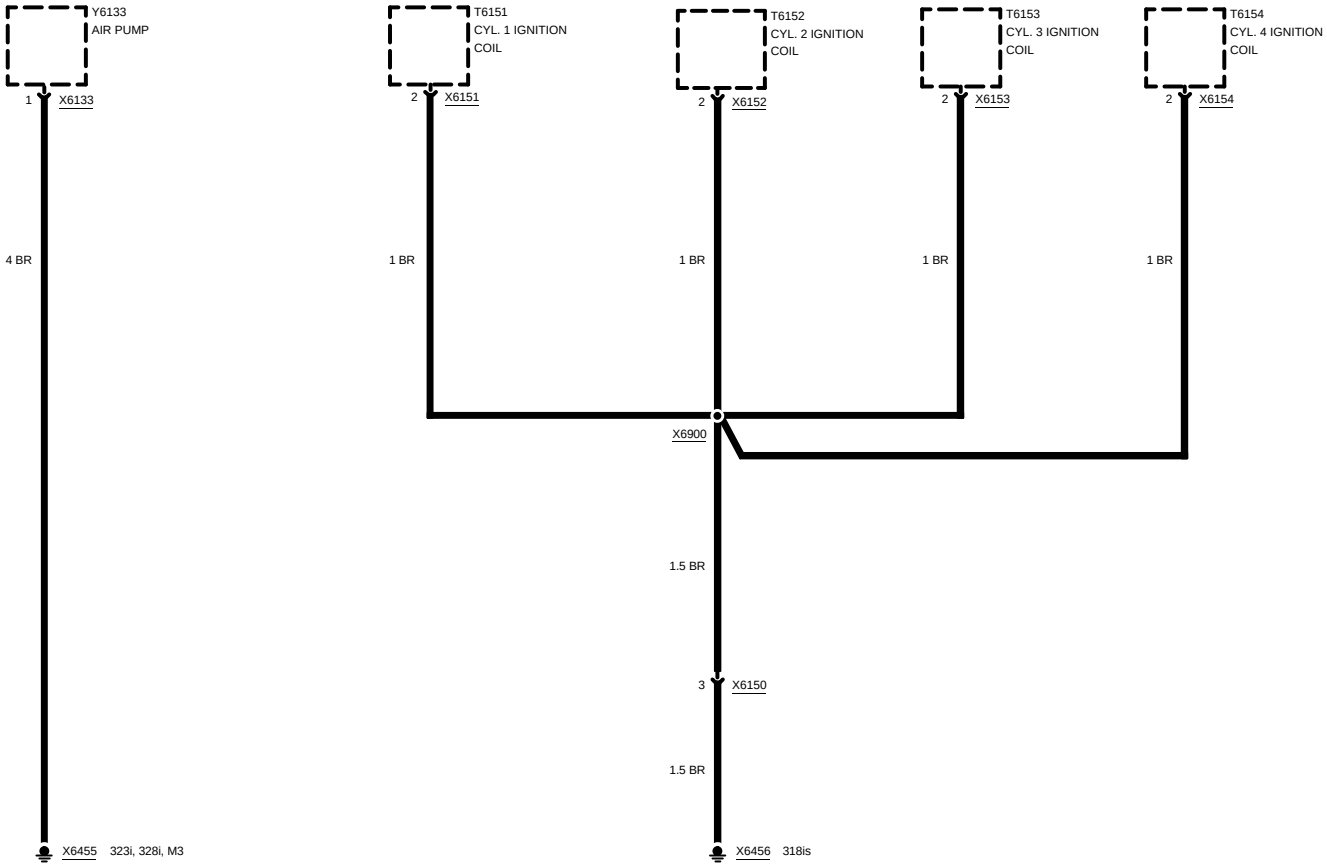
GROUNDS X6454 AND X6455



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GROUNDS X6455 AND X6456

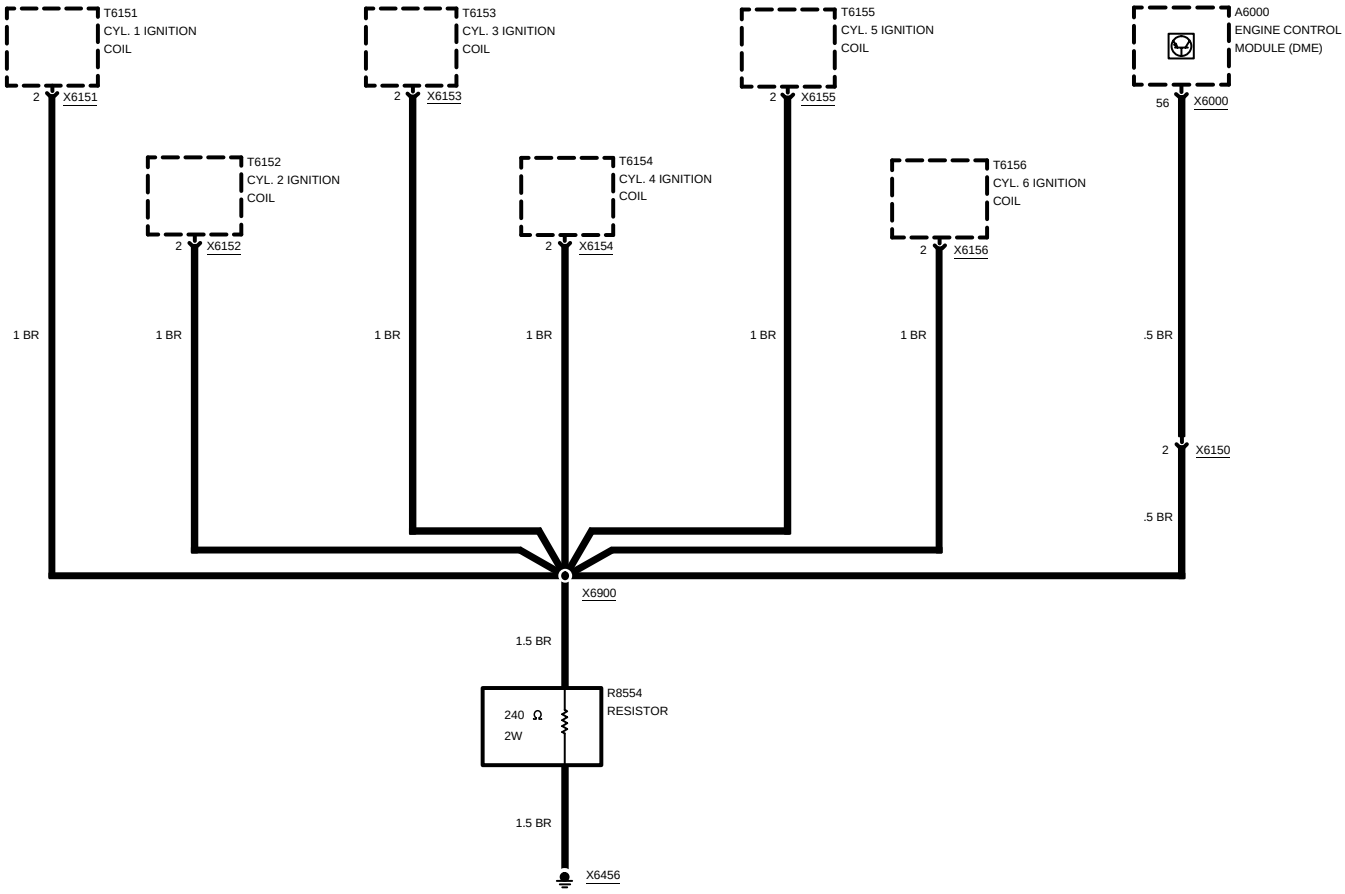


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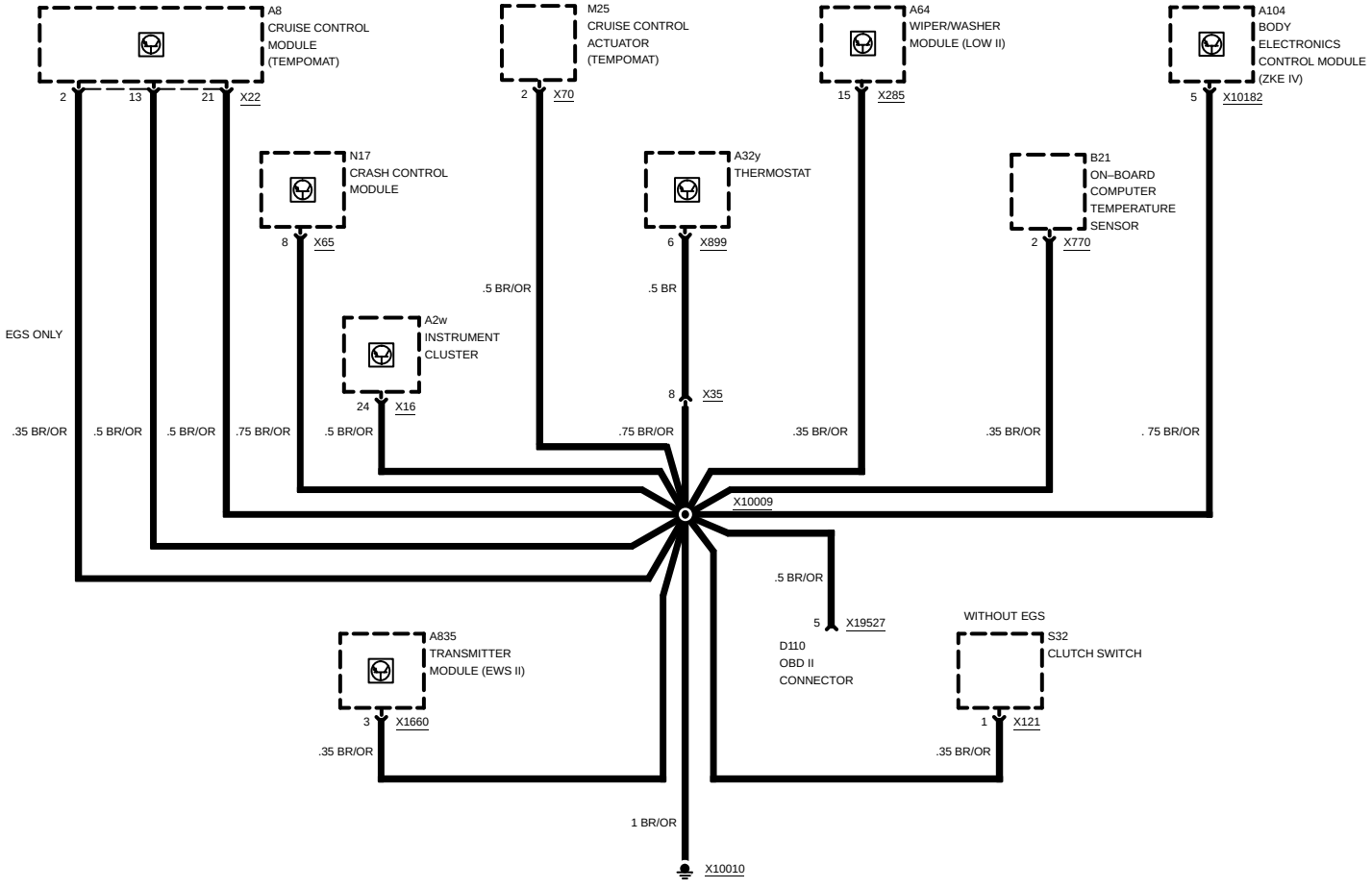
GROUND X6456



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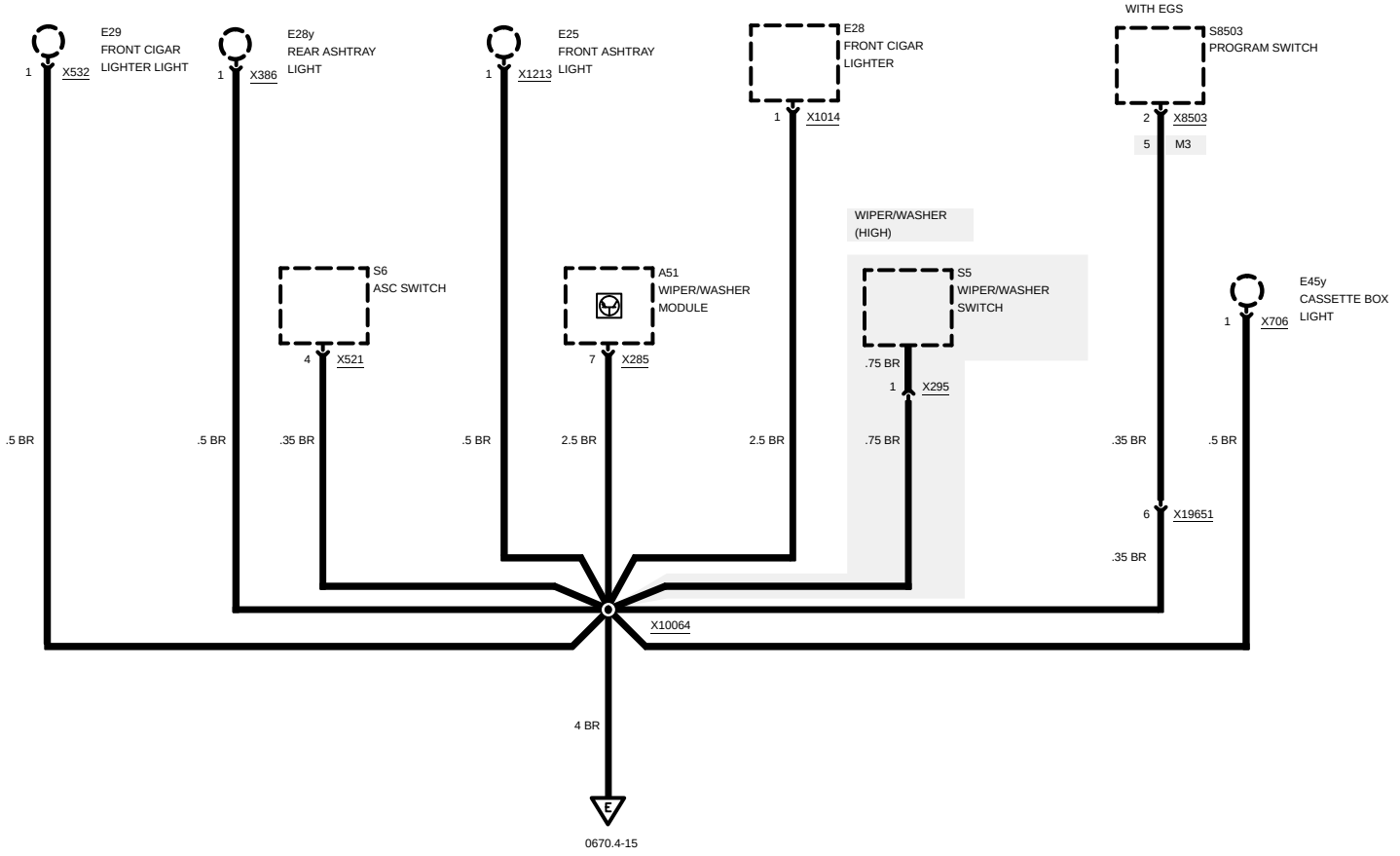
GROUND X10010



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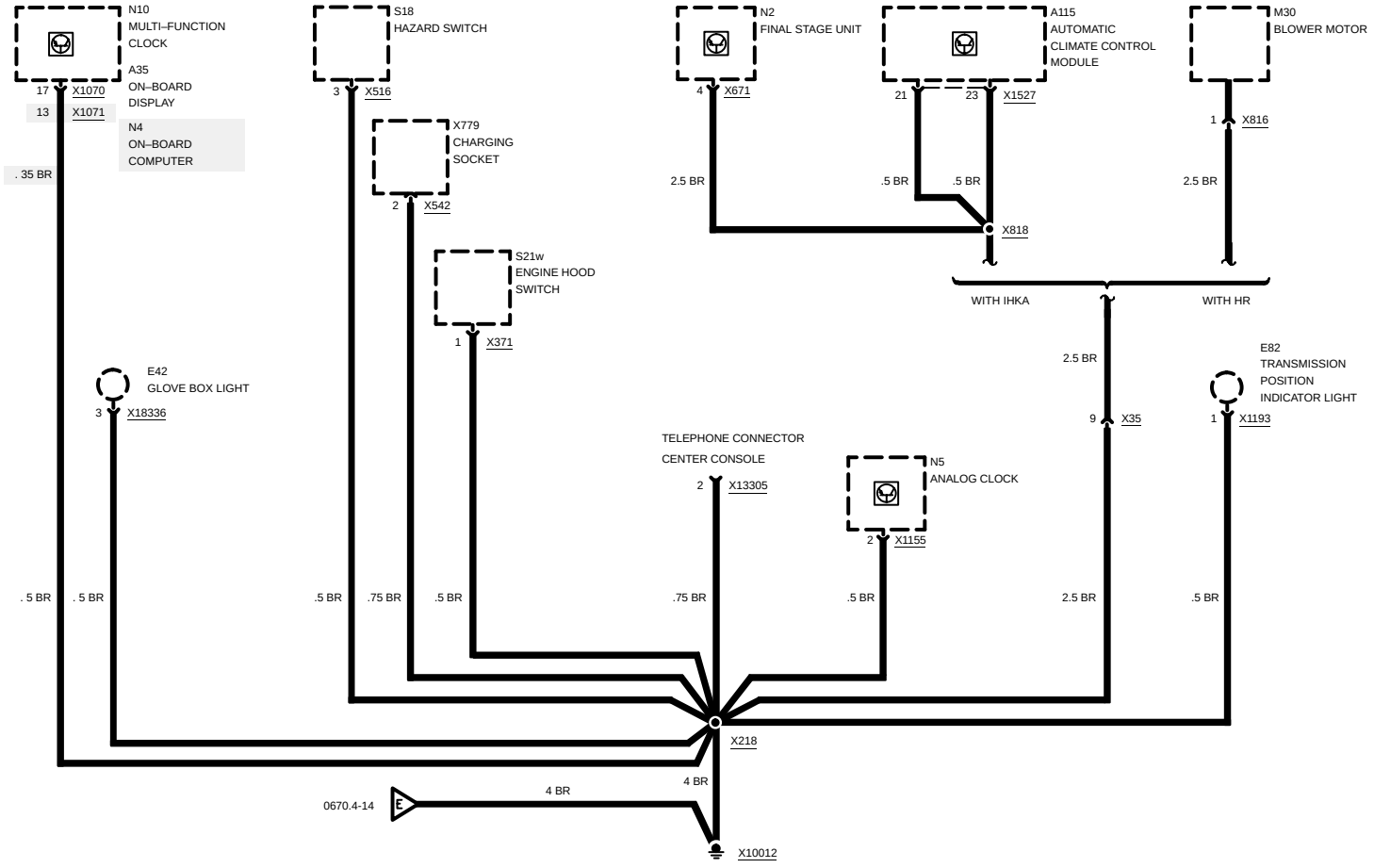
GROUND X10012



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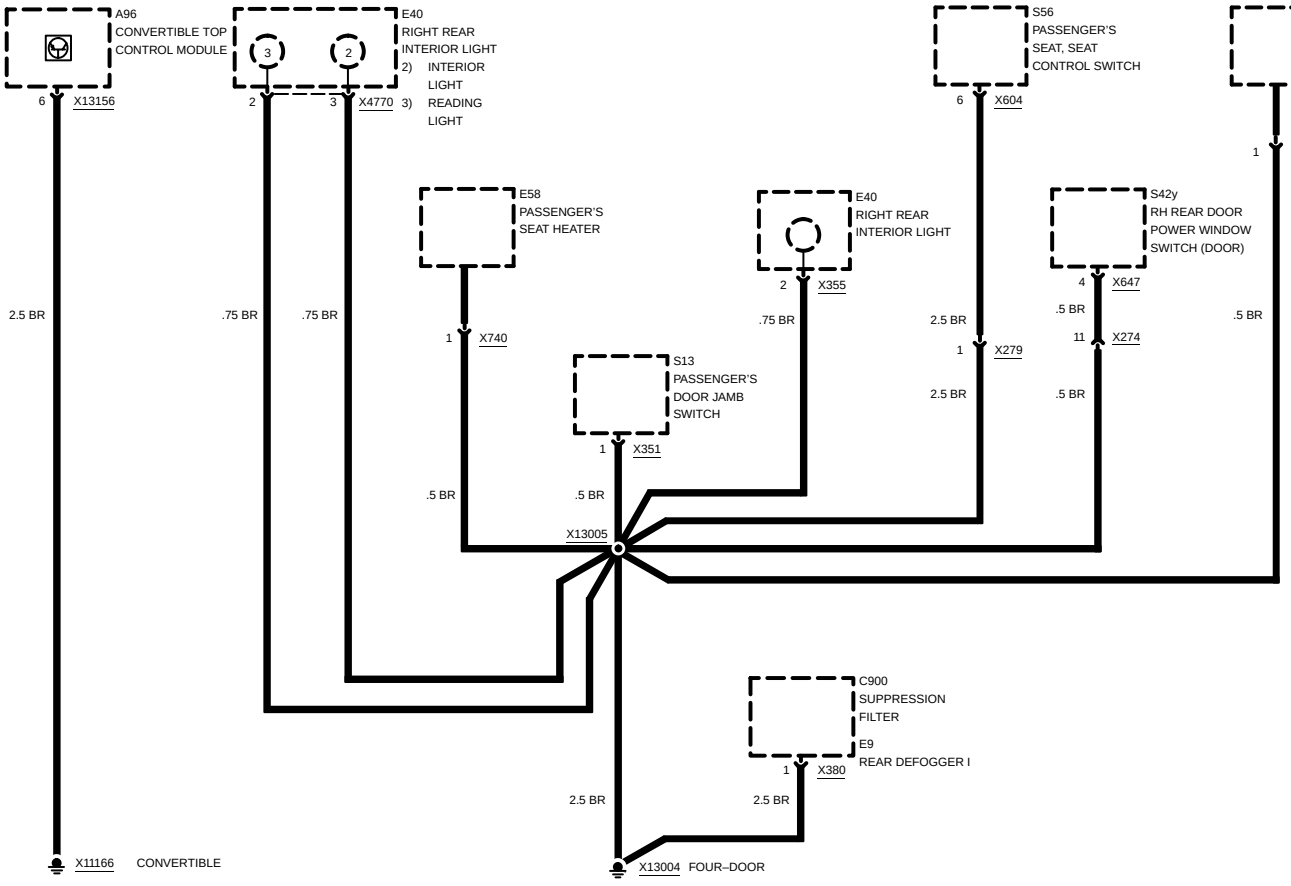
GROUND X10012



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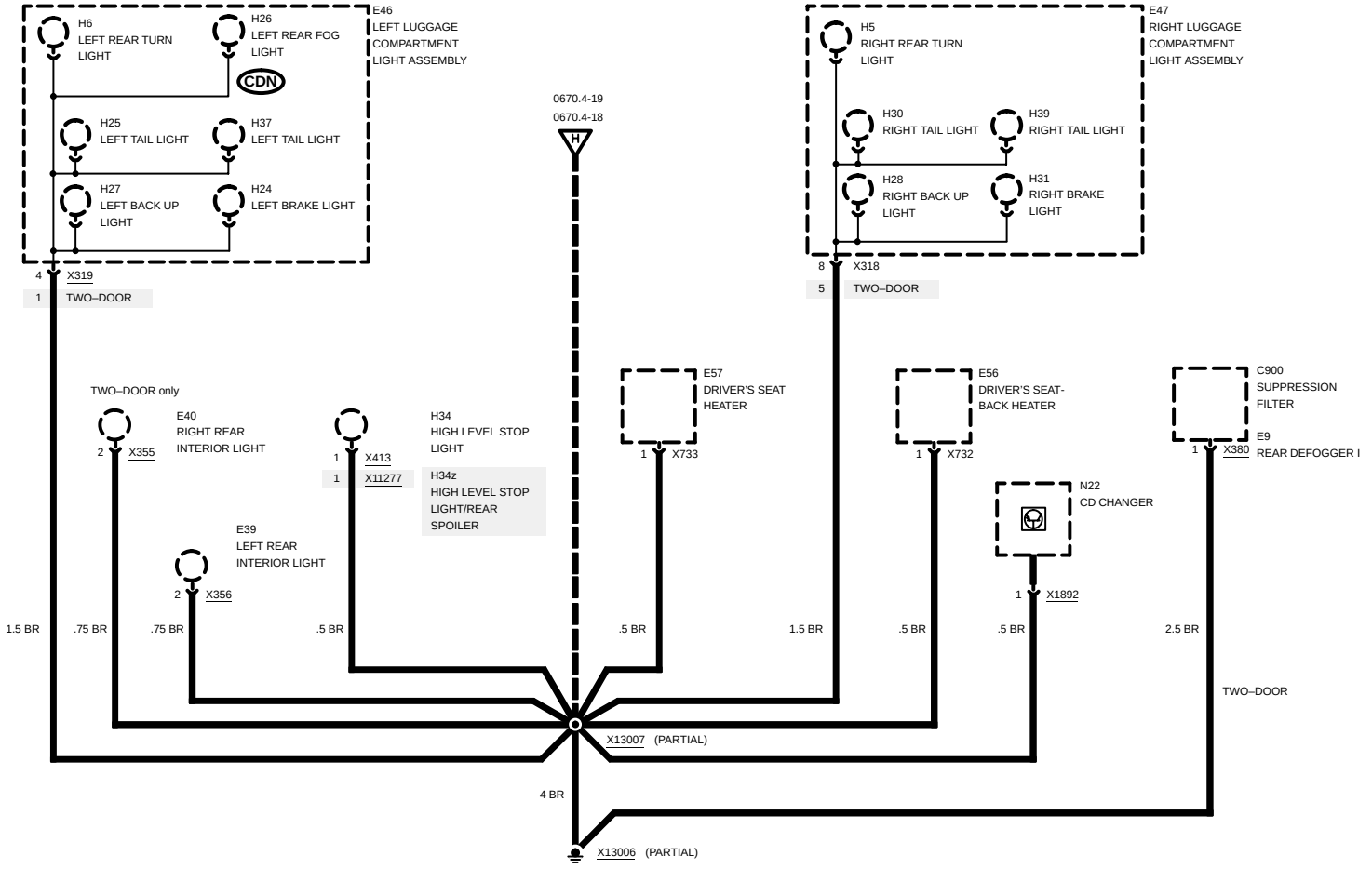
GROUNDS X11166 AND X13004



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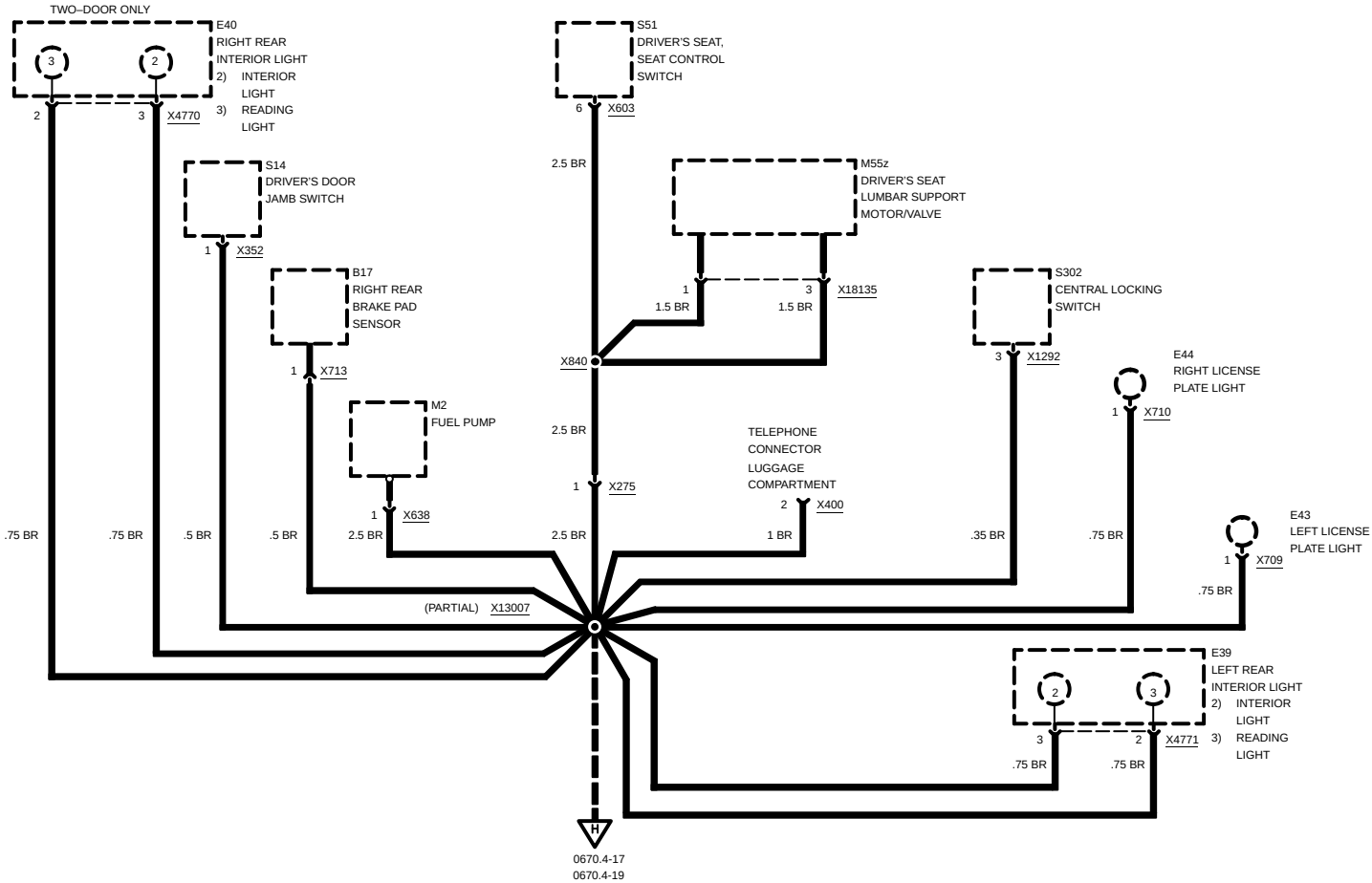
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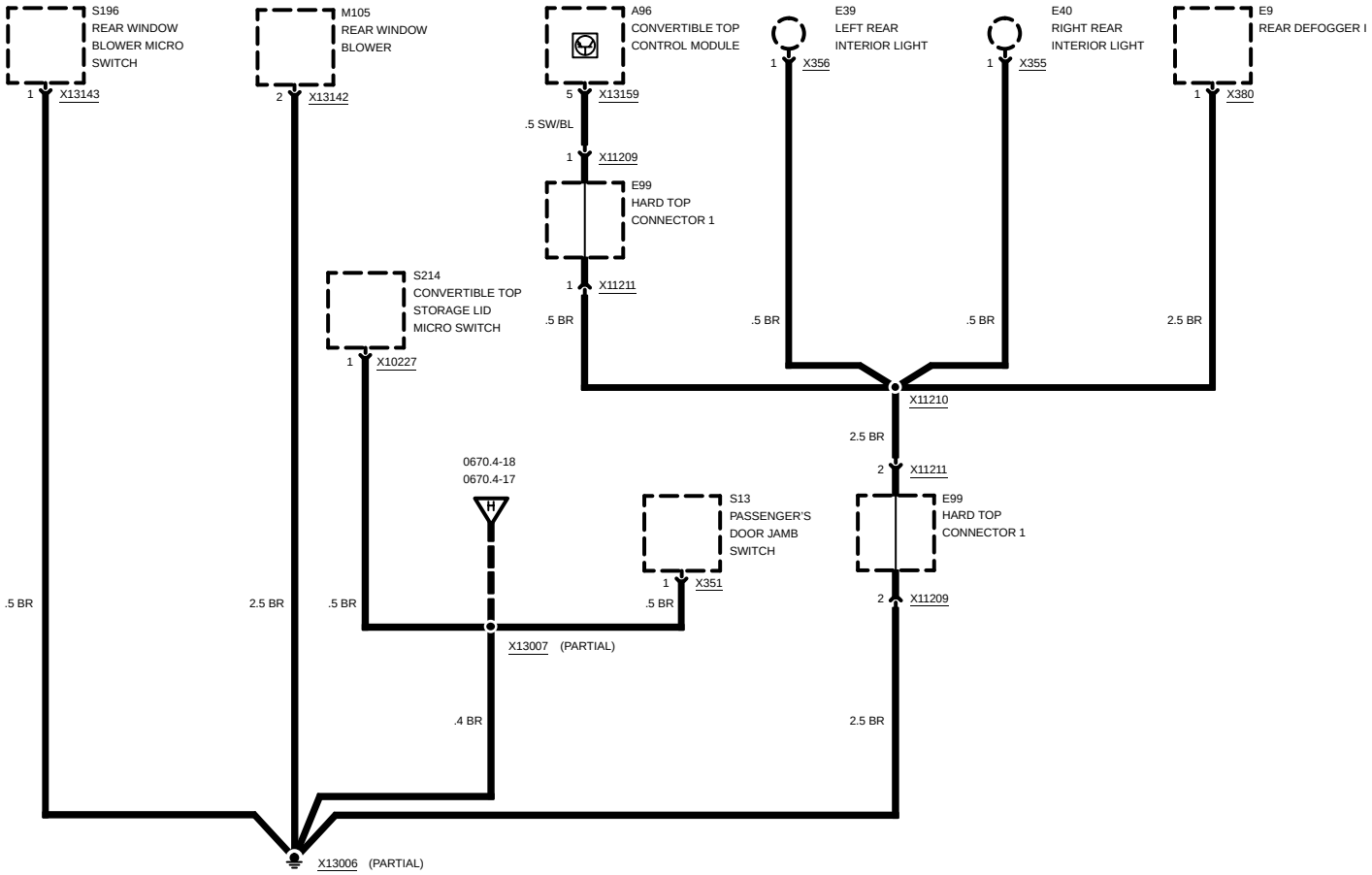
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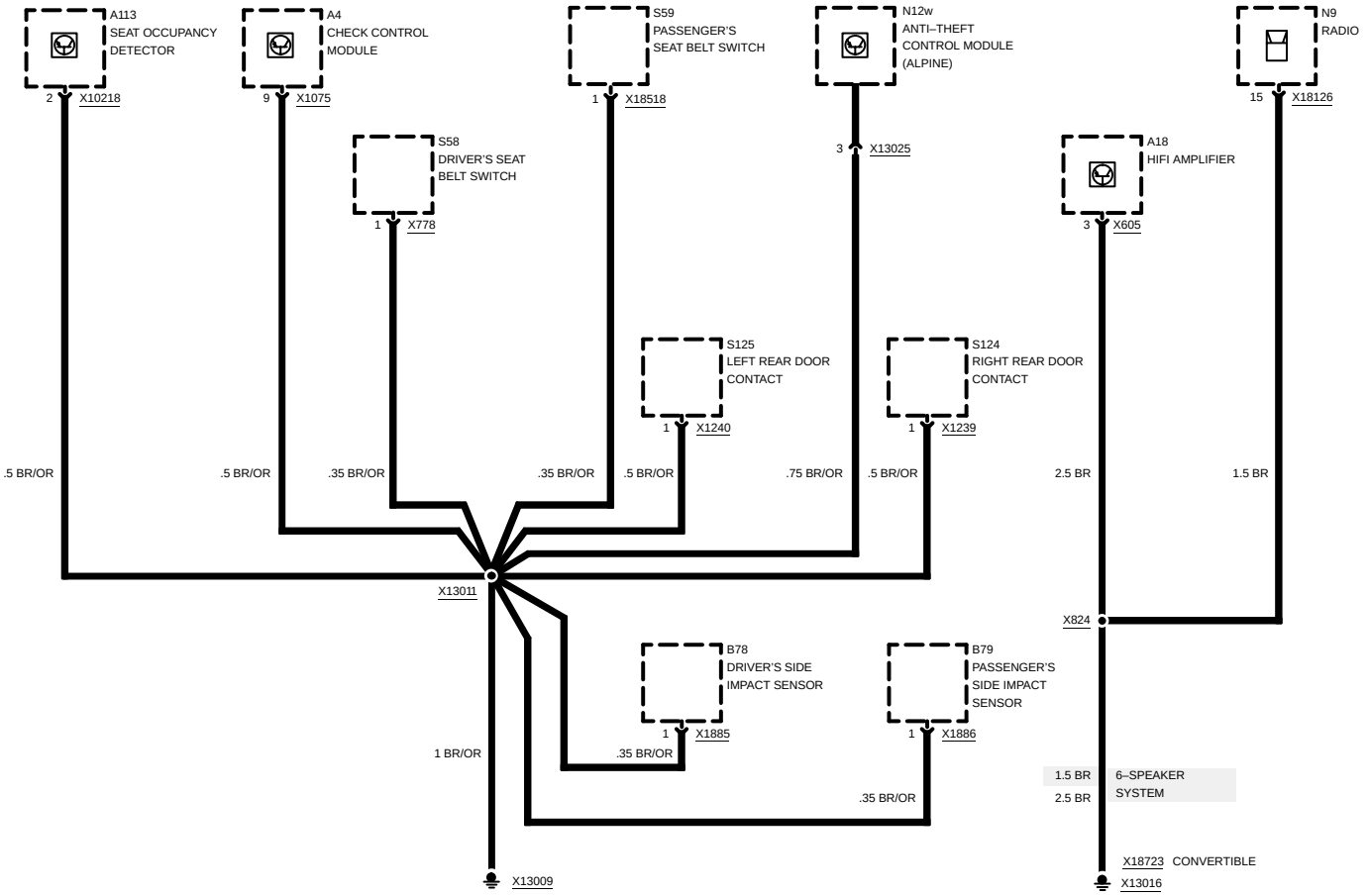
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GROUNDS X13009, X13016, AND X18723

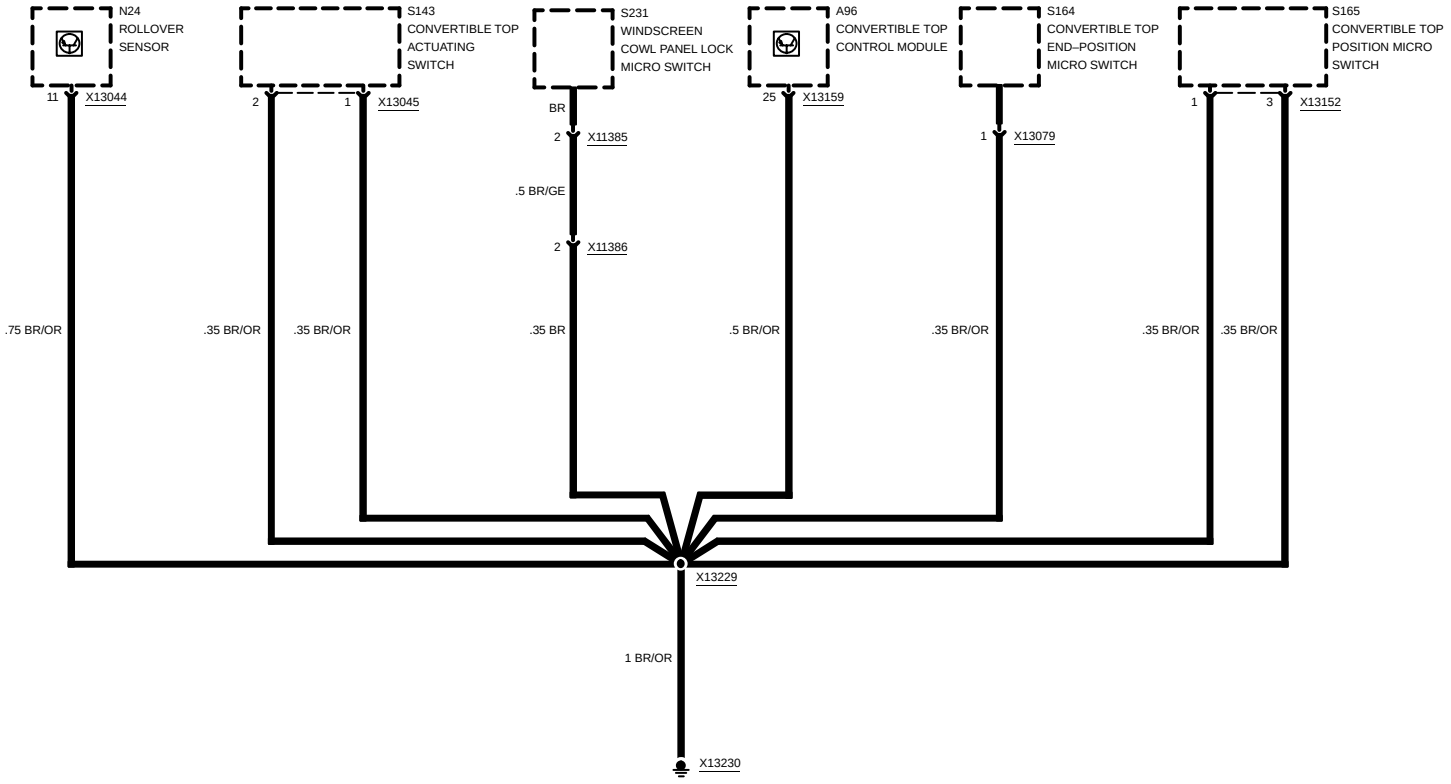


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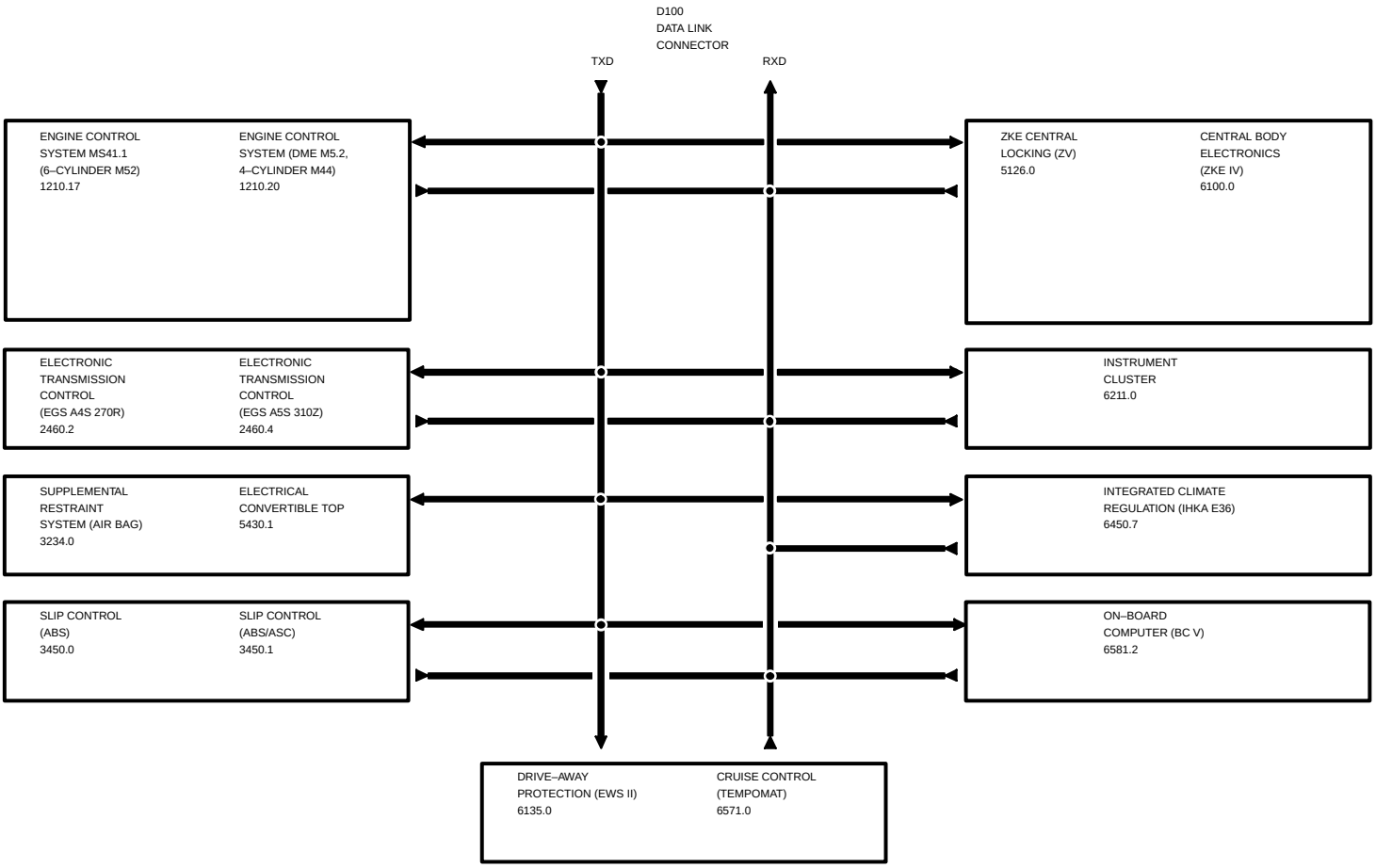
GROUND X13230



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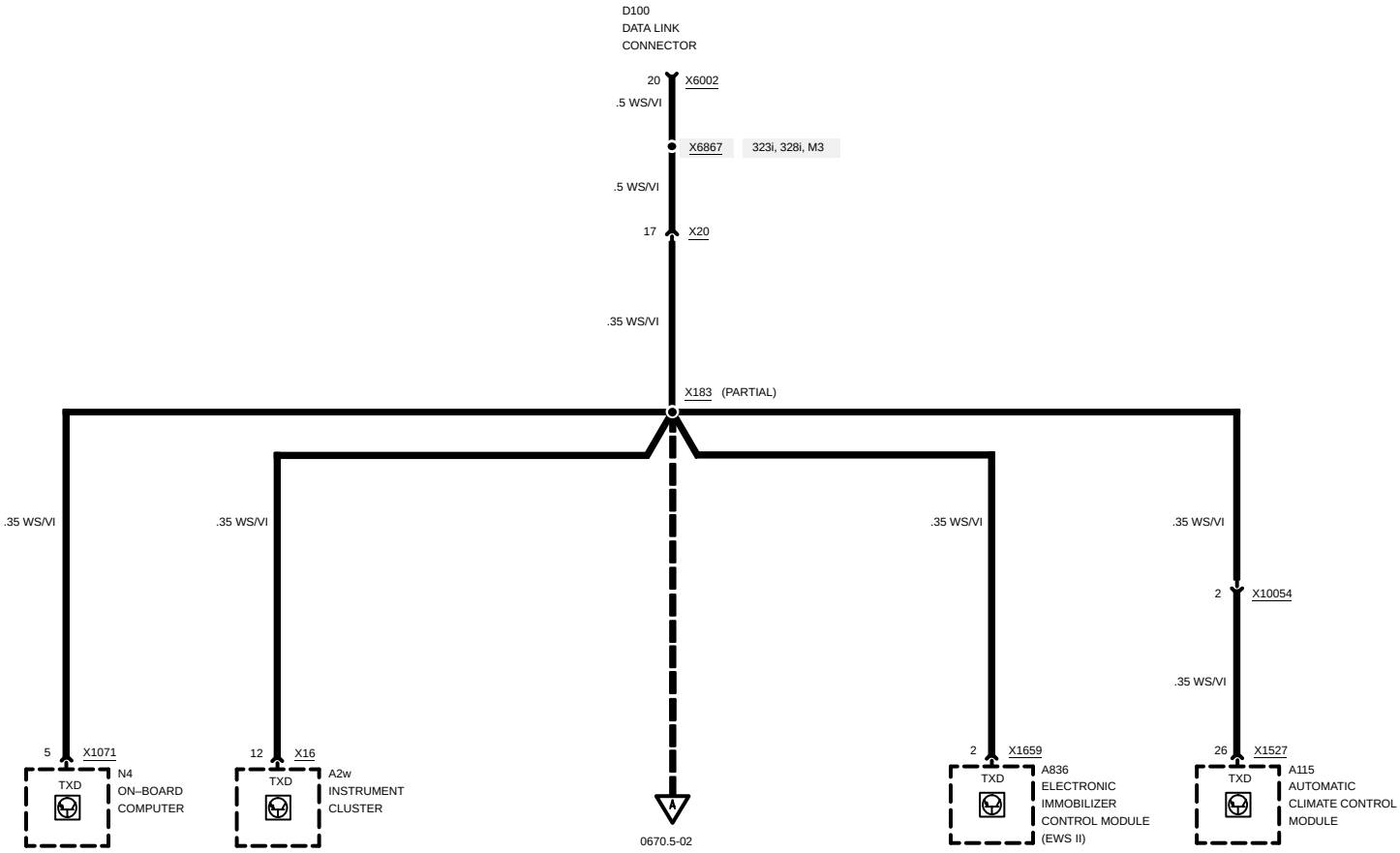
BLOCK DIAGRAM



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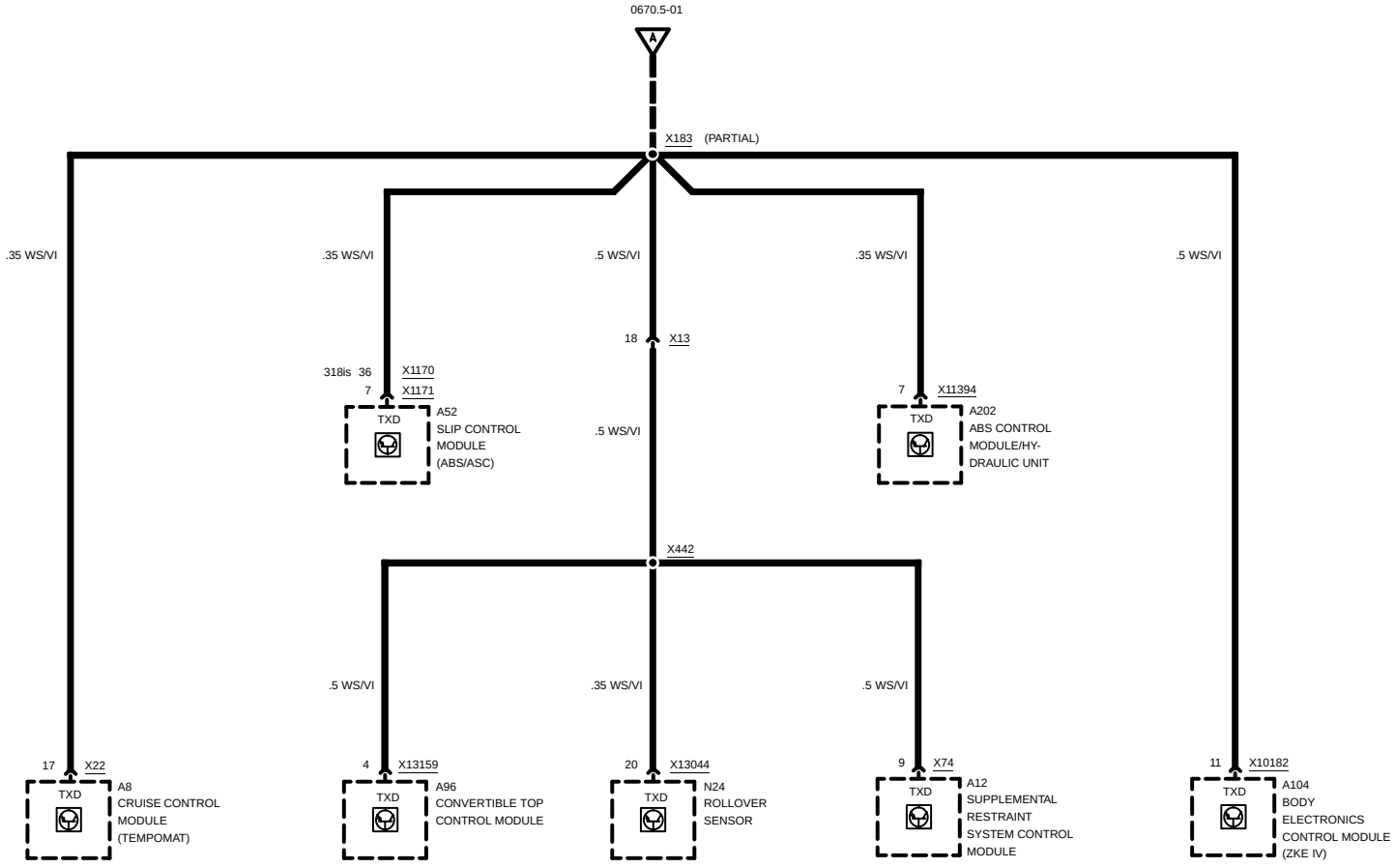
TXD, PIN 20



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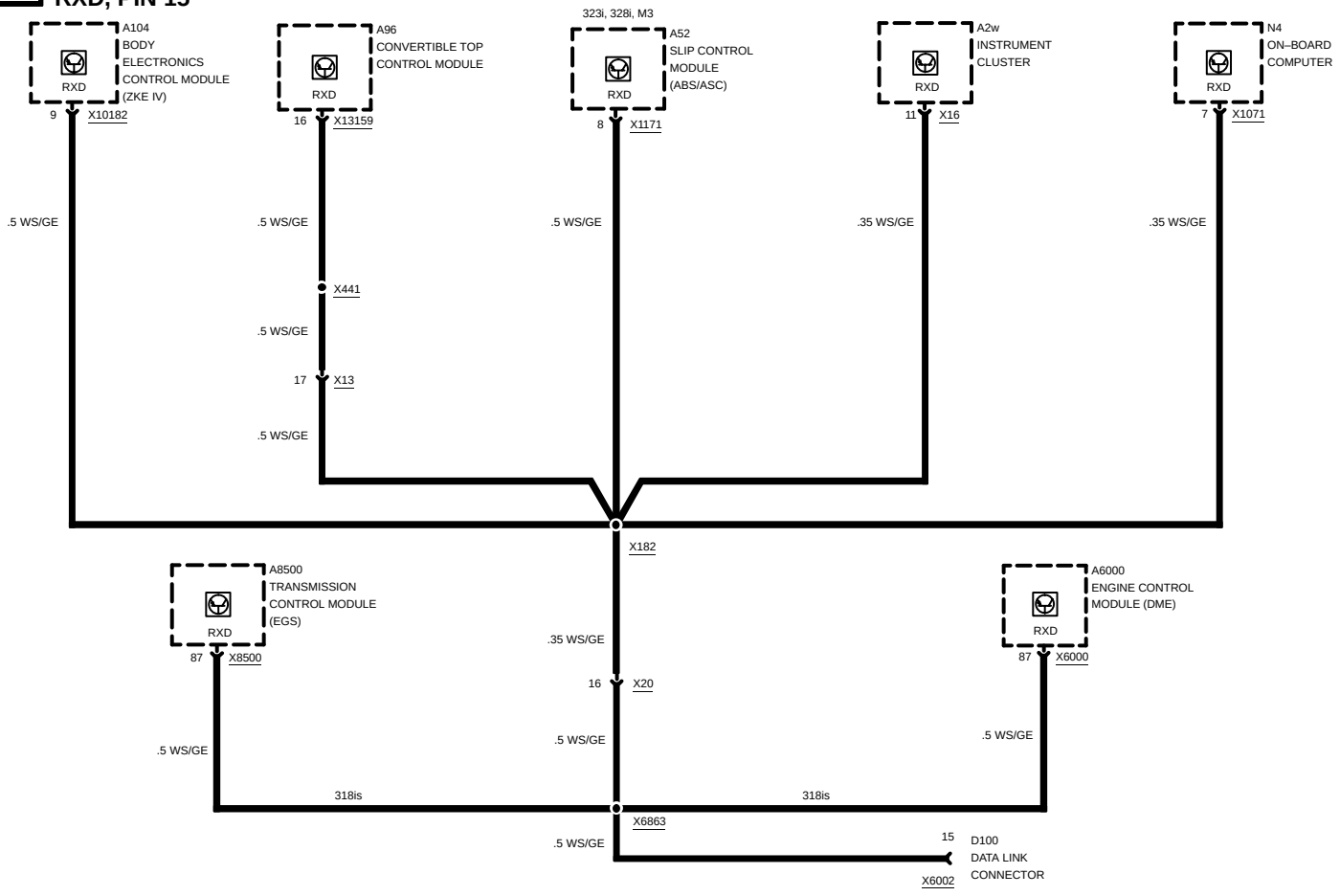
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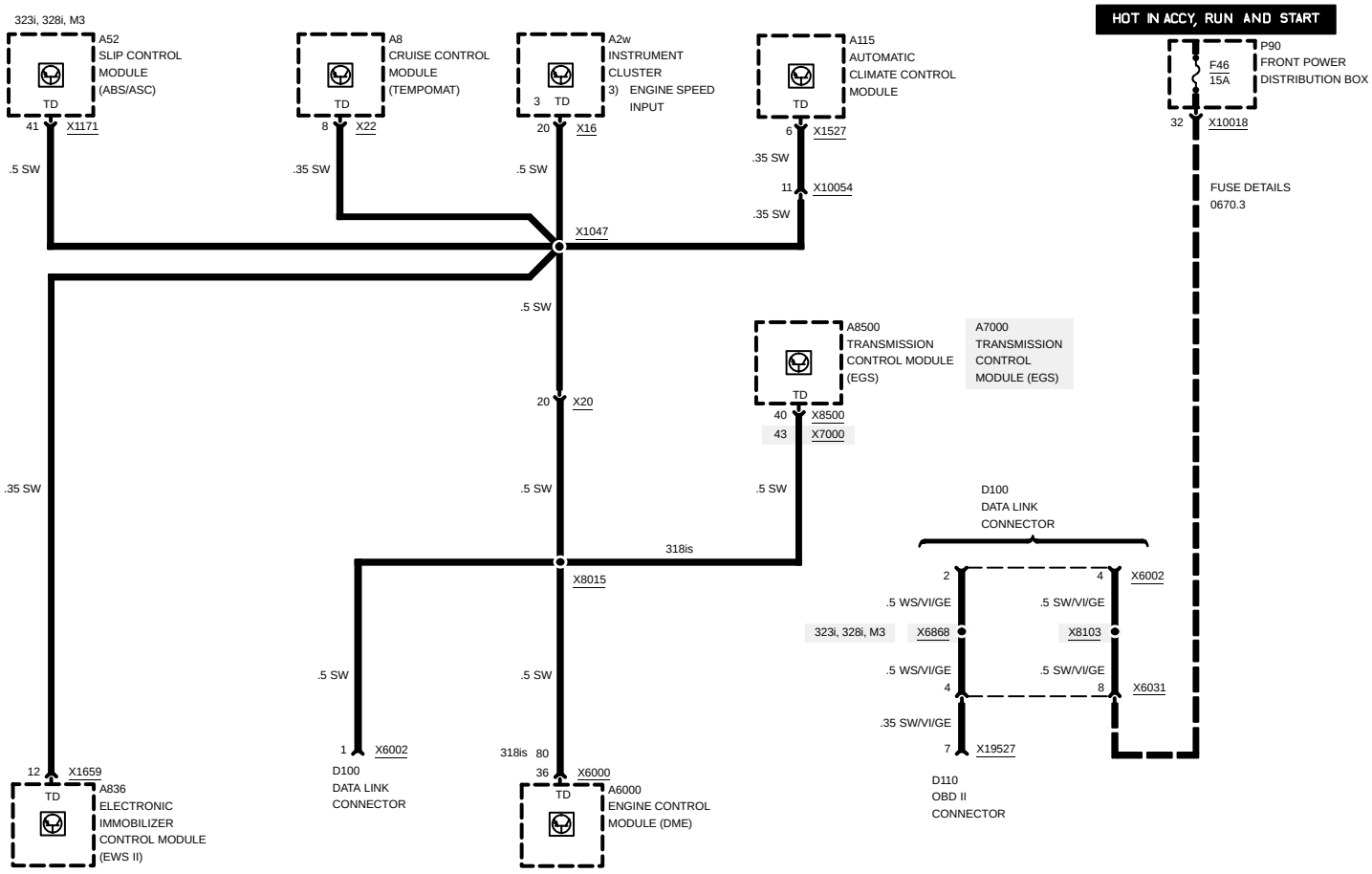
RXD, PIN 15



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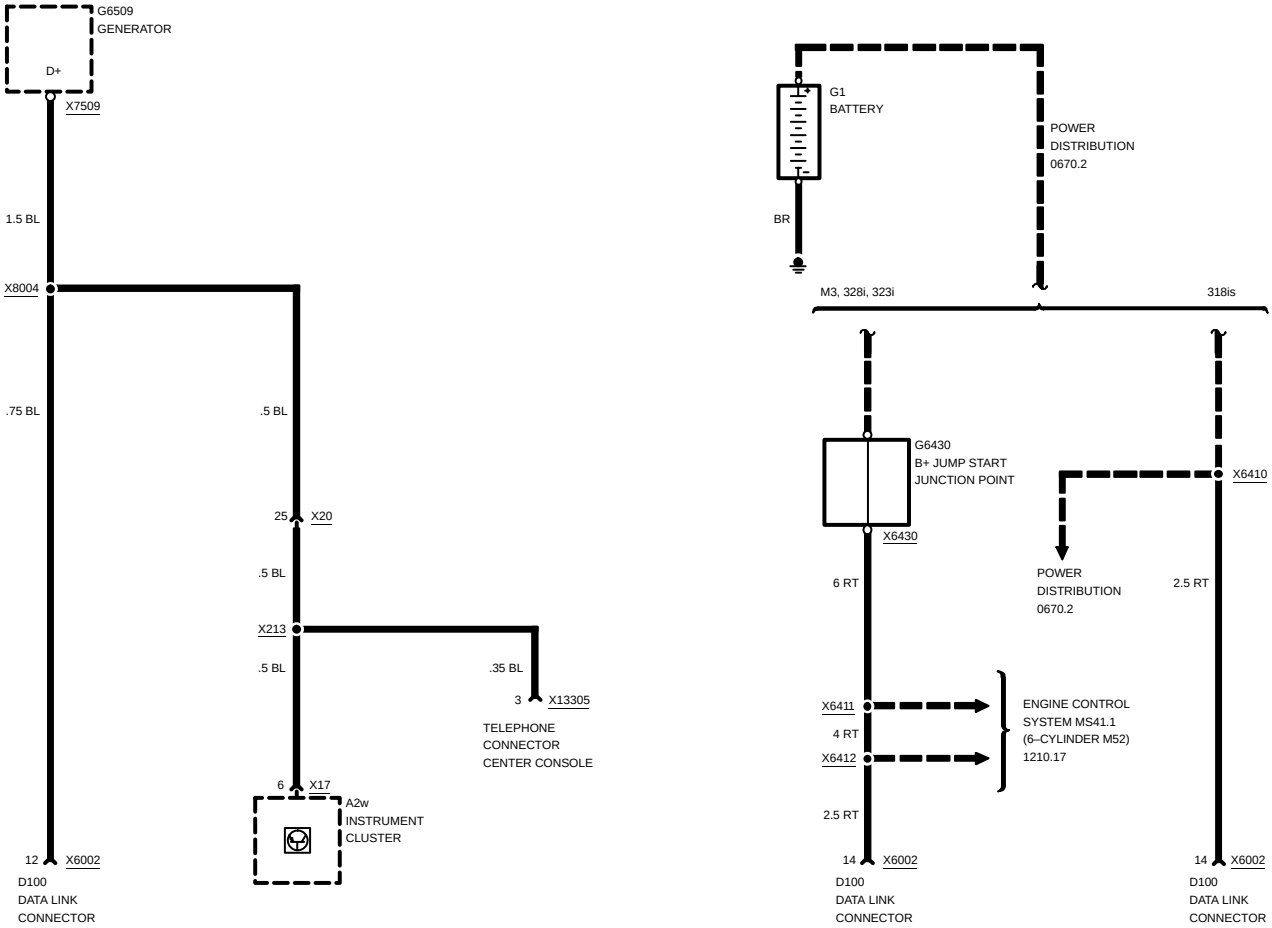
DATA LINK CONNECTOR, PINS 1, 2, AND 4



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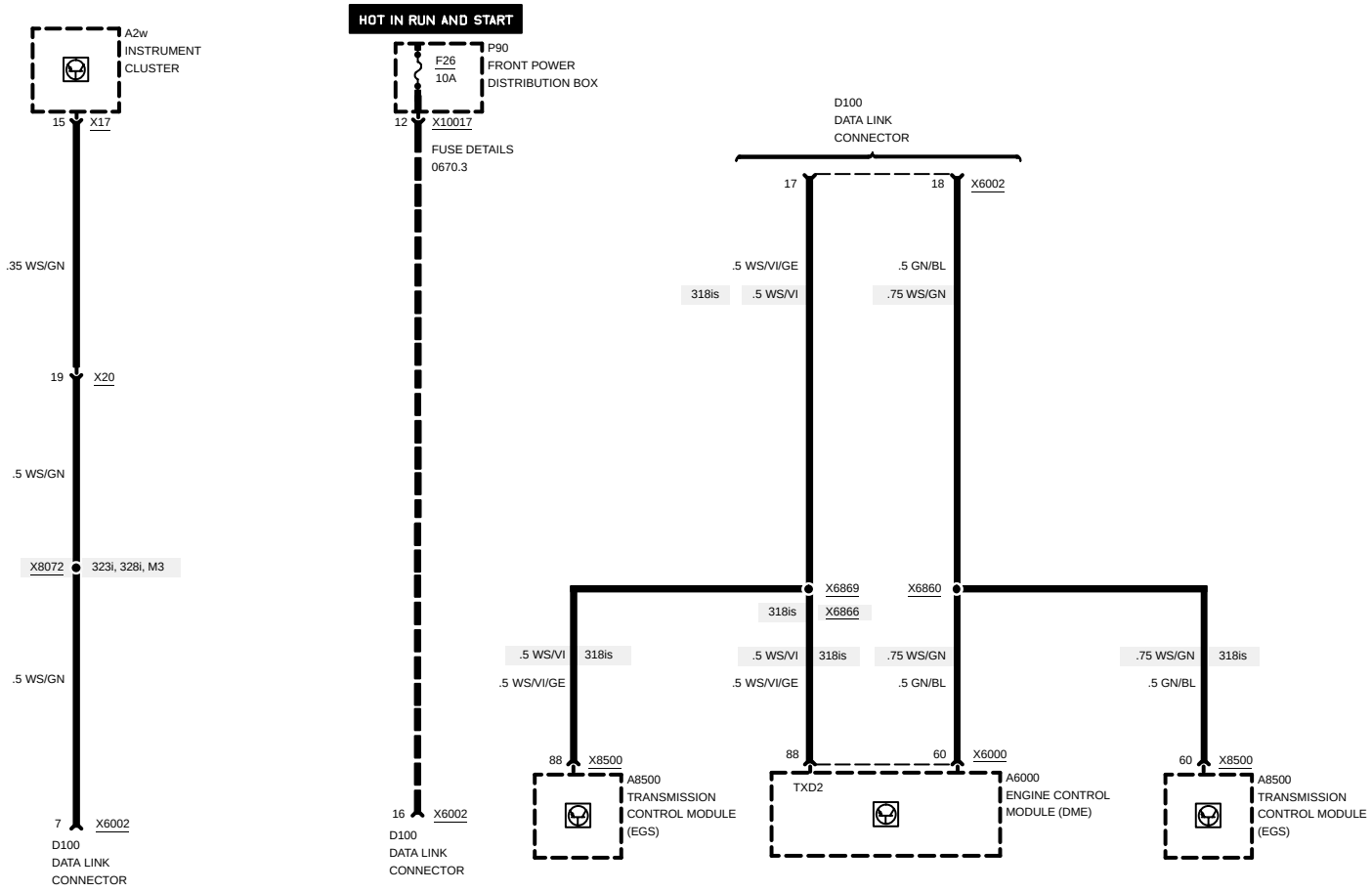
DATA LINK CONNECTOR, PINS 12 AND 14



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DATA LINK

DATA LINK CONNECTOR, PINS 7, 16, 17, AND 18

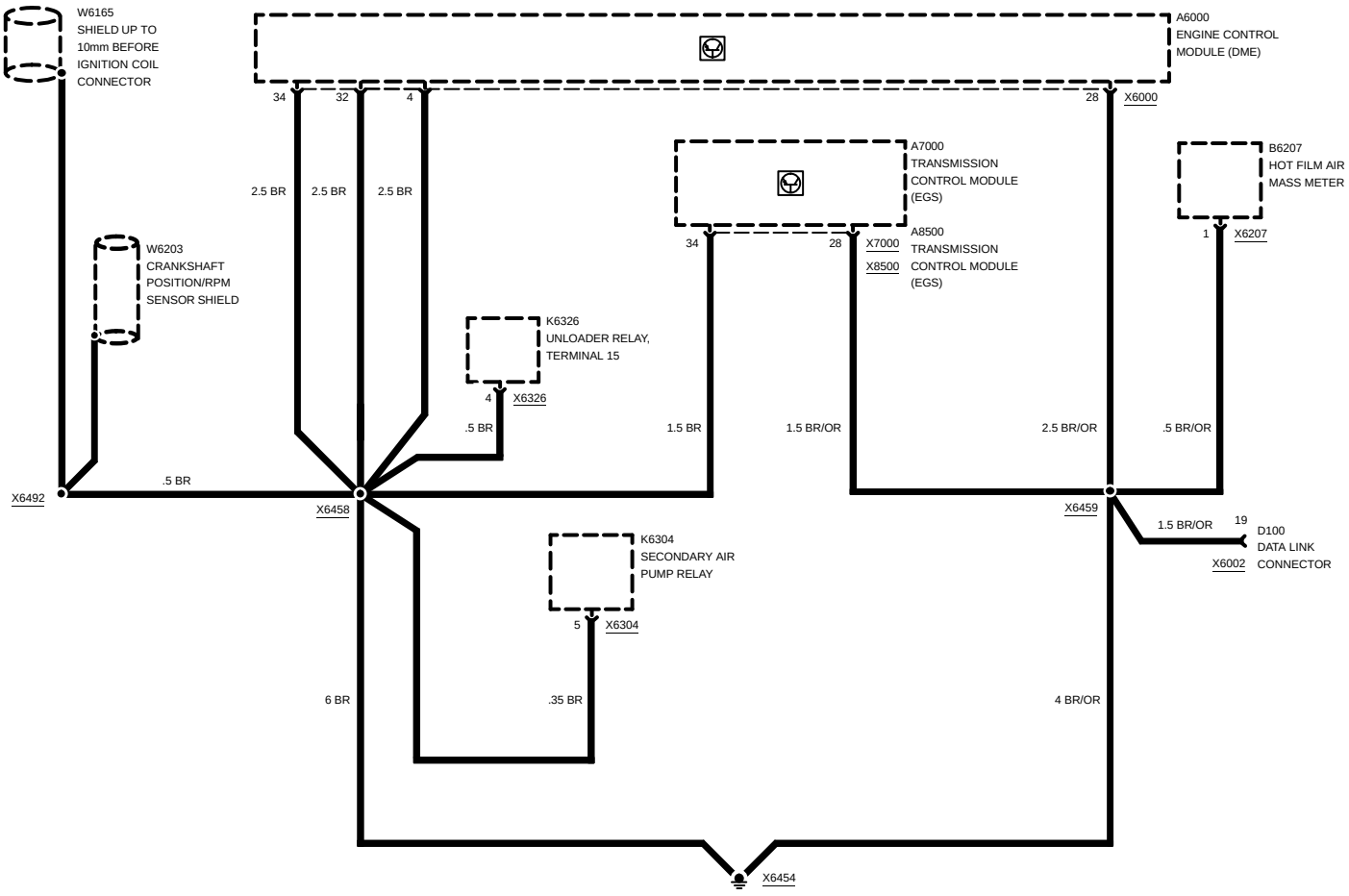


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DATA LINK

323i, 328i, M3

DATA LINK CONNECTOR, PIN 19

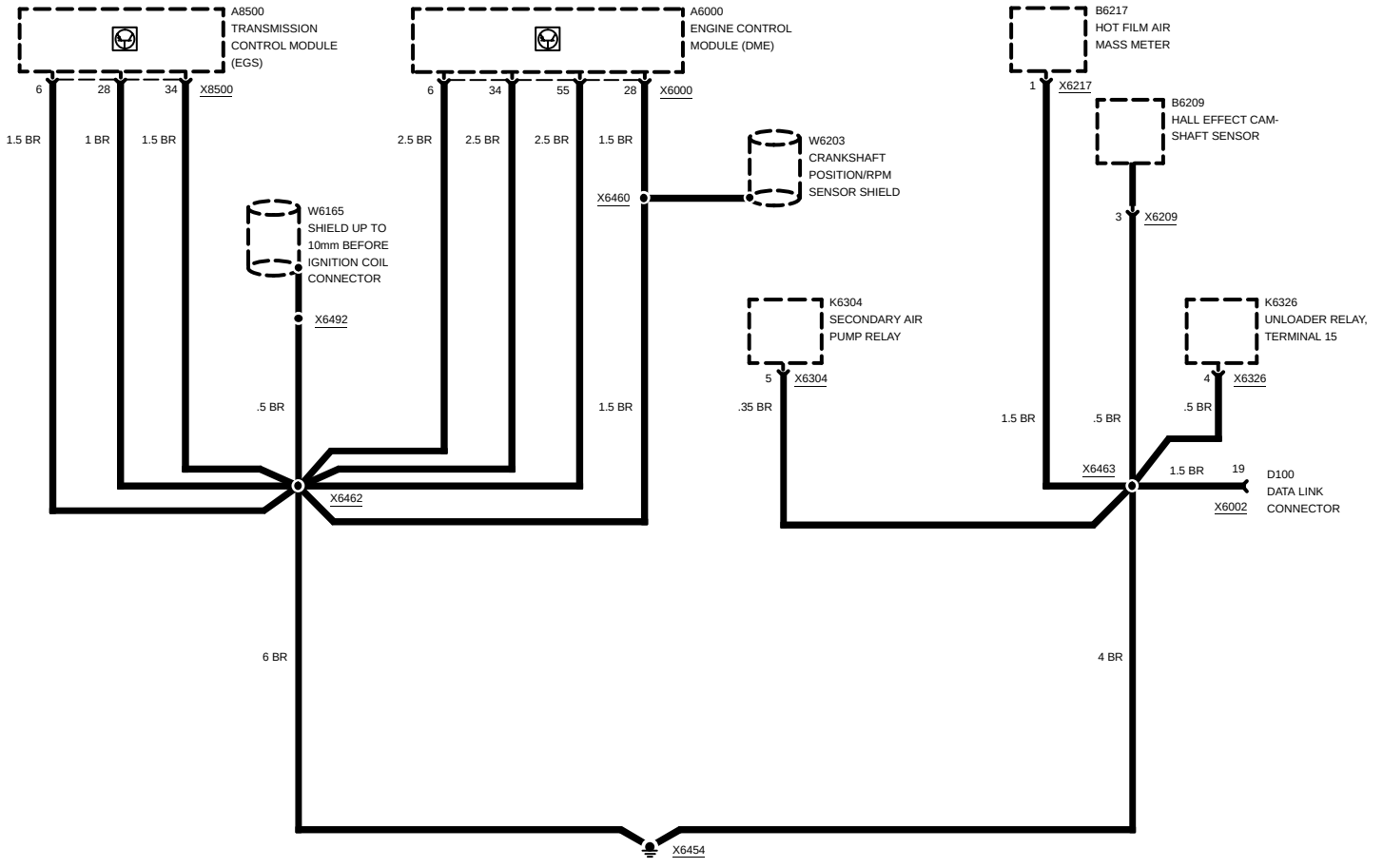


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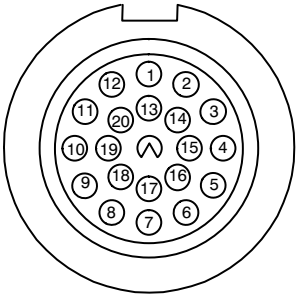
DATA LINK CONNECTOR, PIN 19



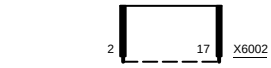
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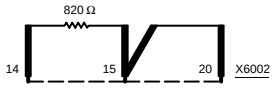
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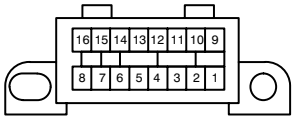
DATA LINK CONNECTOR (X6002)



BRIDGES IN CAP OF D100 DATA LINK CONNECTOR







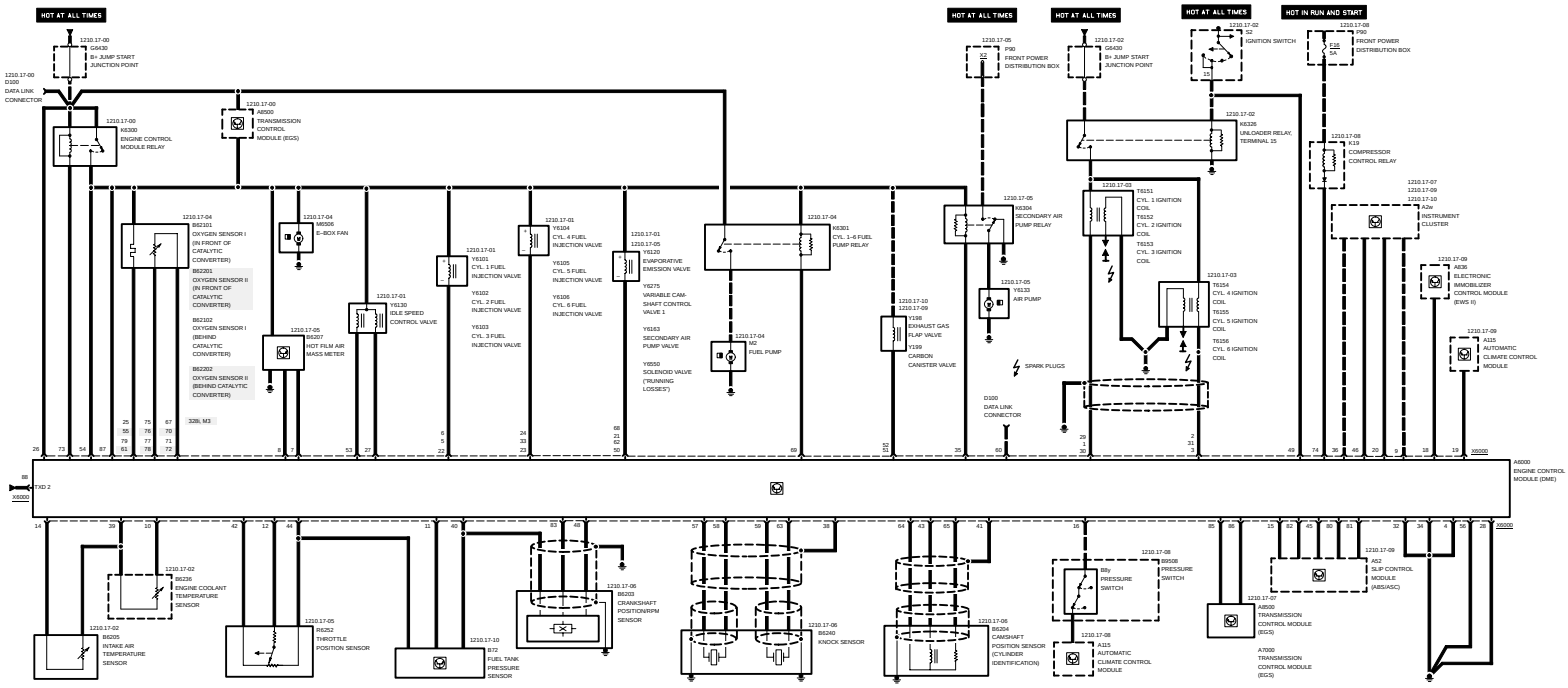
BRIDGE IN CAP OF D110 OBD II CONNECTOR



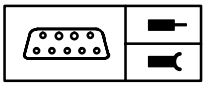
PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	TD	ENGINE	SW
2	TXD2	DIAGNOSTIC DATA LINK	WS/VI/GE
3	–	NOT OCCUPIED	
4	R	VOLTAGE: HOT IN ACCY, RUN AND START	SW/VI/GE
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	–	NOT OCCUPIED	
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	–	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	TXD2	DIAGNOSTIC DATA LINK	WS/VI – WS/VI/GE
18	PGSP	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	WS/GN – GN/BL
19	31	GROUND	BR – BR/OR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI

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1210.17 ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)



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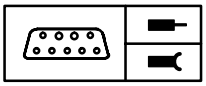
Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
2	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
3	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
4	M	Ground	Ground point
5	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
6	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
7	M	Ground	Hot wire air mass meter
8	E	Hot wire air mass meter	Hot wire air mass meter
9	E	TI-measurement signal (fuel consumption)	Instrument cluster
10	E	Engine coolant temperature	Engine coolant temperature sensor
11	E	Fuel tank pressure	Fuel tank pressure sensor
12	E	Throttle position signal	Throttle position sensor
13		Not used	
14	E	Intake air temperature	Intake air temperature sensor
15	E	Speed signal right rear	ABS/ASC control module
16	E	Activate A/C	Pressure switch
17		Not used	
18	E	Drive-away protection signal (code)	Electronic immobilizer control module (EWS II)
19	E	A/C-ON-signal	Air conditioning operating unit
20	A	“Check engine” indicator control	Instrument cluster
21	A	Camshaft control	Variable camshaft control valve
22	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
23	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
24	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
25	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
26	E	Battery voltage	B+ jump start junction point
27	A	Activate valve	Idle speed control valve
28	M	Ground	Ground point
29	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil

E = Input, A = Output, M = Ground

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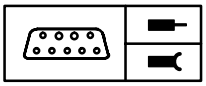


Pin Assignments

Pin	Type	Description/Function	Connection
30	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
31	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
32	M	Ground	Ground point
33	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
34	M	Ground	Ground point
35	A	Activate relay	Secondary air pump relay
36	A	Crankshaft RPM speed signal TD	Instrument cluster
37		Not used	
38	M	Ground	Shield knock sensor
39	M	Ground	Temperature sensors
40	M	Ground	Crankshaft position/RPM sensor Fuel tank pressure sensor
41	M	Ground	Shield camshaft position sensor
42	M	Ground	Throttle position sensor
43	E	Camshaft position	Camshaft position sensor
44	A	Voltage supply	Throttle position sensor Fuel tank pressure sensor
45	A	Throttle position signal	ABS/ASC control module
46	E	TI-measurement signal (fuel consumption)	Instrument cluster
47		Not used	
48	A	Voltage supply	Crankshaft position/RPM sensor
49	E	Terminal 15	Ignition switch
50	A	Running losses	Solenoid valve
51	A	Activate valve	Carbon canister valve
52	A	Signal exhaust flap	Exhaust gas flap valve
53	A	Activate valve	Idle speed controle valve
54	E	Battery voltage, terminal 87	Engine control module relay
55	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
56	M	Ground	Ground point
57	E	Cyl. 1-3 knock sensor	Knock sensor
58	E	Cyl. 1-3 knock sensor	Knock sensor
59	E	Cyl. 4-6 knock sensor	Knock sensor

E = Input, A = Output, M = Ground

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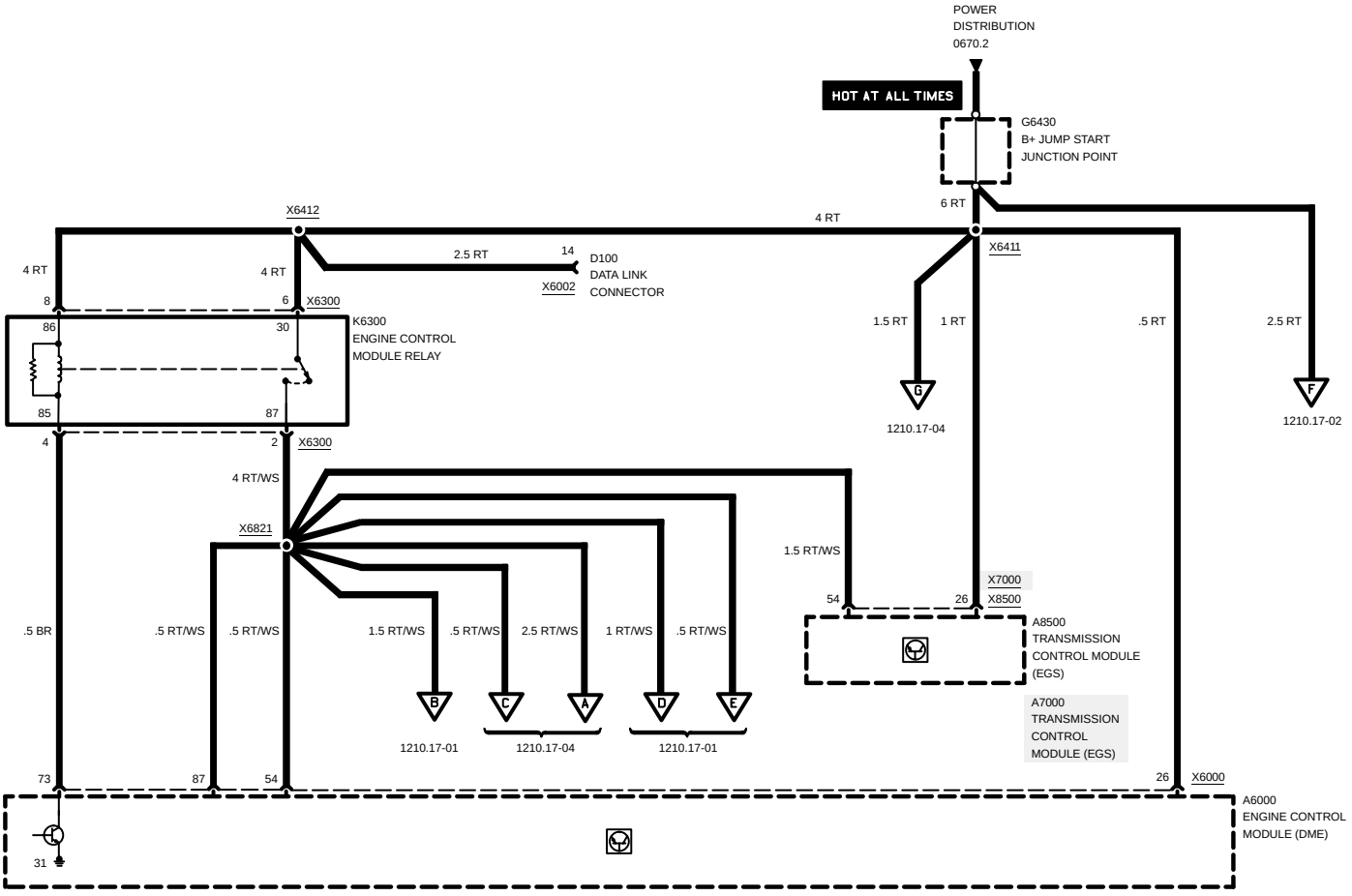


Pin Assignments

Pin	Type	Description/Function	Connection
60	E	Programming voltage	Data link connector
61	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
62	A	Activate valve	Secondary air pump value
63	E	Cyl. 4-6 knock sensor	Knock sensor
64	M	Ground	Camshaft position sensor
65	E	Camshaft position	Camshaft position sensor
66		Not used	
67	M	Oxygen sensor signal ground	Oxygen sensor (in front of catalytic converter)
68	A	Activate valve	Evaporative emission valve
69	A	Activate relay	Fuel pump relay
70	M	Oxygen sensor signal ground	Oxygen sensor (in front of catalytic converter)
71	M	Oxygen sensor signal ground	Oxygen sensor (behind catalytic converter)
72	M	Oxygen sensor signal ground	Oxygen sensor (behind catalytic converter)
73	E	Activate relay	Engine control module relay
74	A	Activate A/C compressor	Compressor control relay
75	E	Sensor signal	Oxygen sensor (in front of catalytic converter)
76	E	Sensor signal	Oxygen sensor (in front of catalytic converter)
77	E	Sensor signal	Oxygen sensor (behind catalytic converter)
78	E	Sensor signal	Oxygen sensor (behind catalytic converter)
79	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
80	A	ASC signal ZA	Slip control module (ABS/ASC)
81	A	ASC signal ZWV	Slip control module (ABS/ASC)
82	A	ASC signal MSR	Slip control module (ABS/ASC)
83	E	Sensor signal	Crankshaft position/RPM sensor
84		Not used	
85	E/A	CAN-LOW	Transmission control module (EGS)
86	E/A	CAN-HIGH	Transmission control module (EGS)
87	E	Battery voltage, terminal 87	Engine control module relay
88	E/A	TxD diagnosis data link	Data link connector

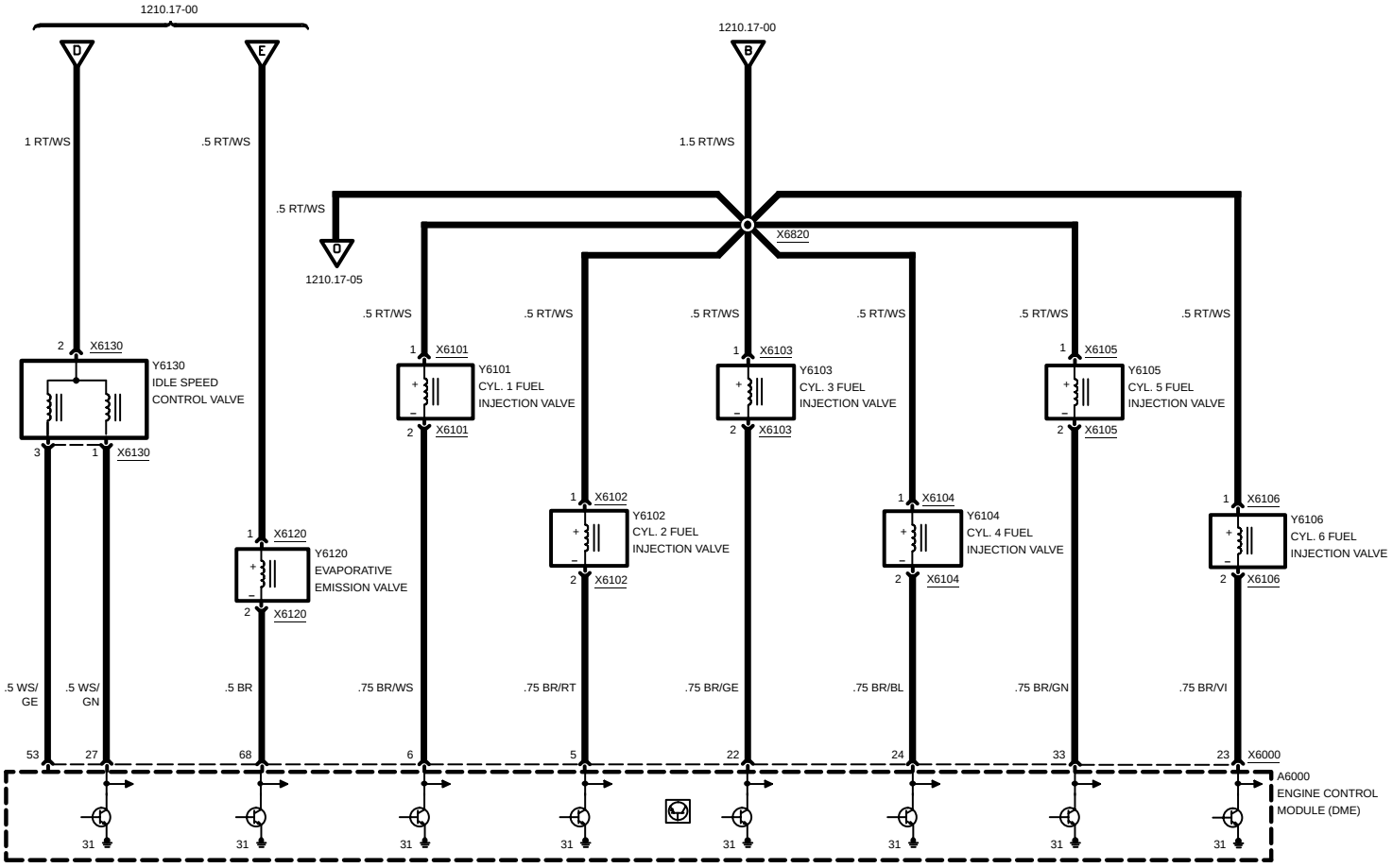
E = Input, A = Output, M = Ground

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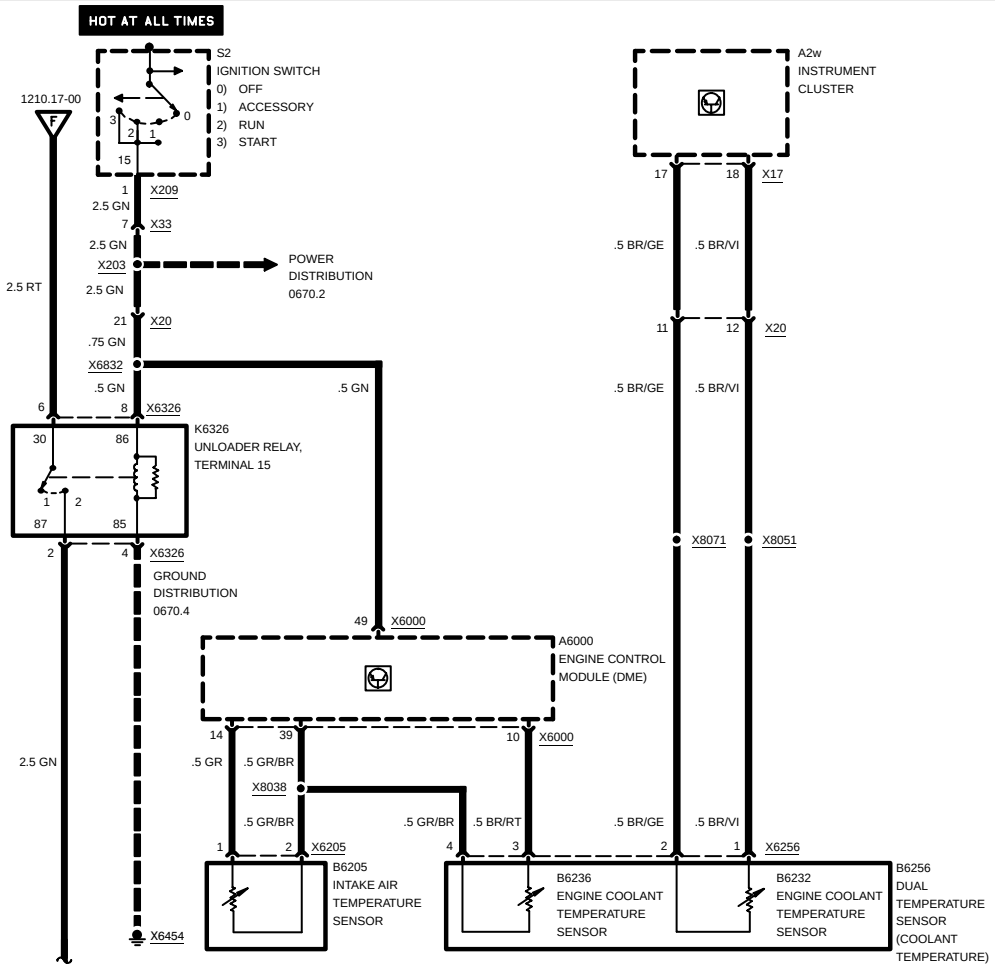
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ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)

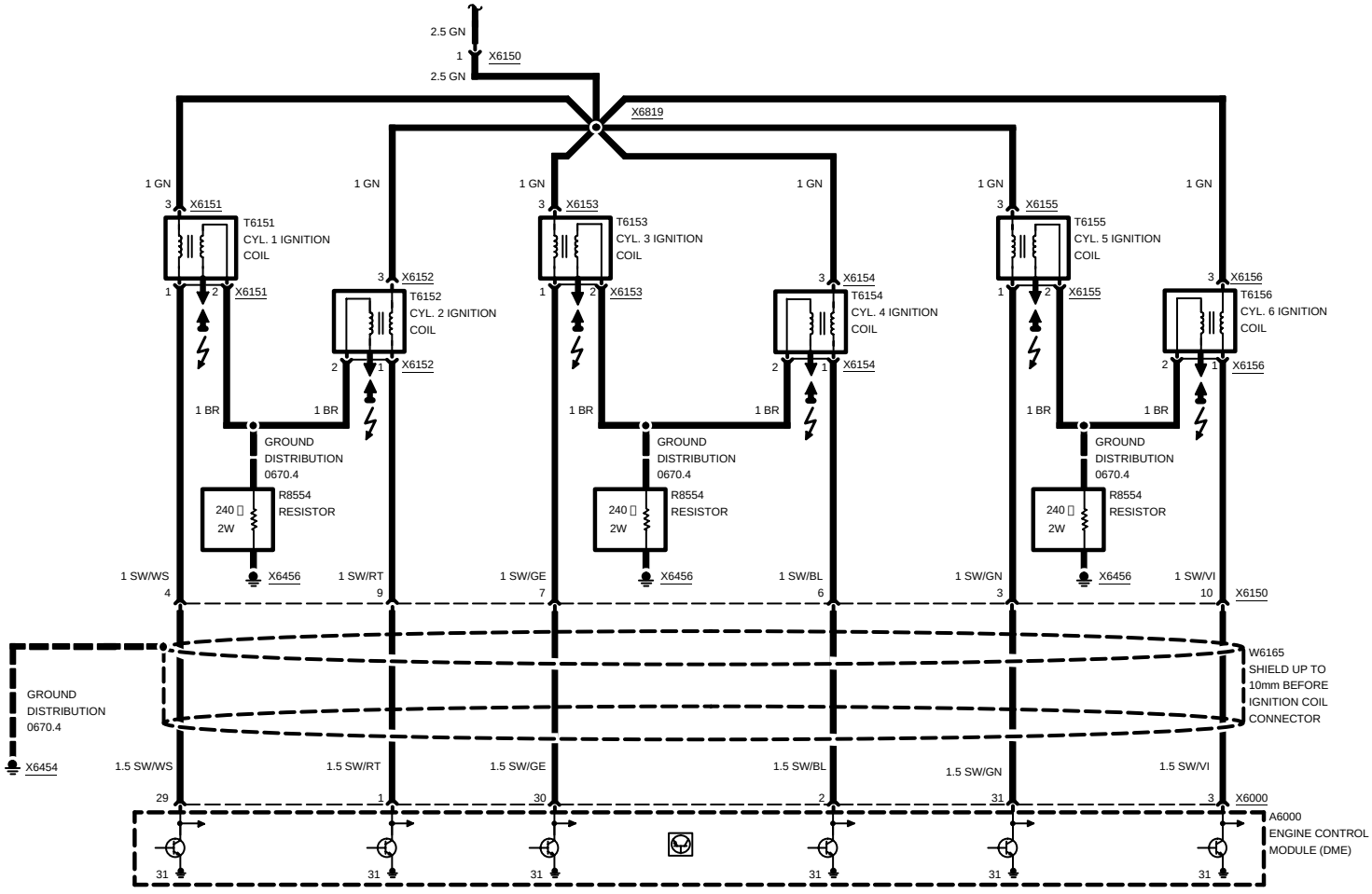


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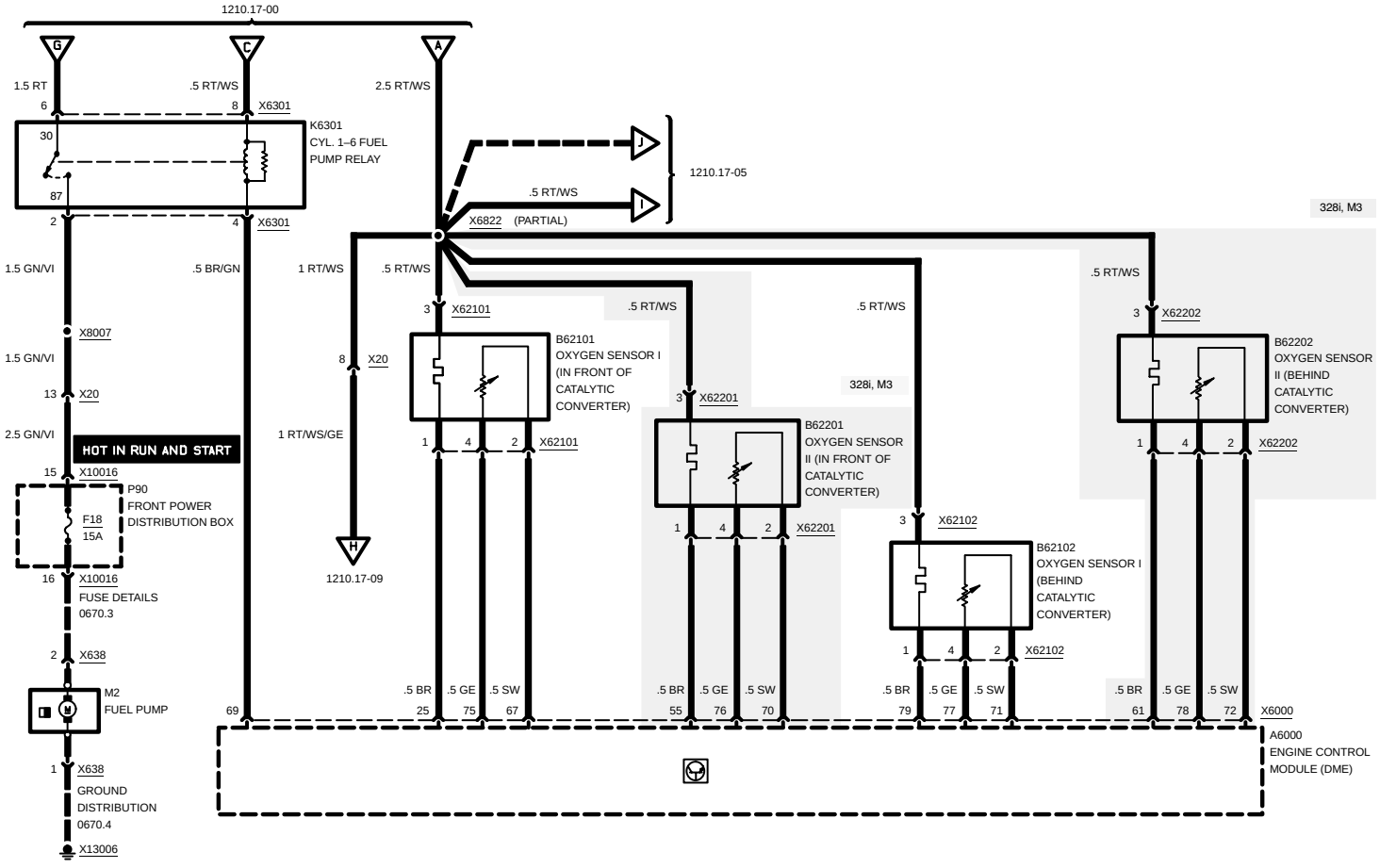


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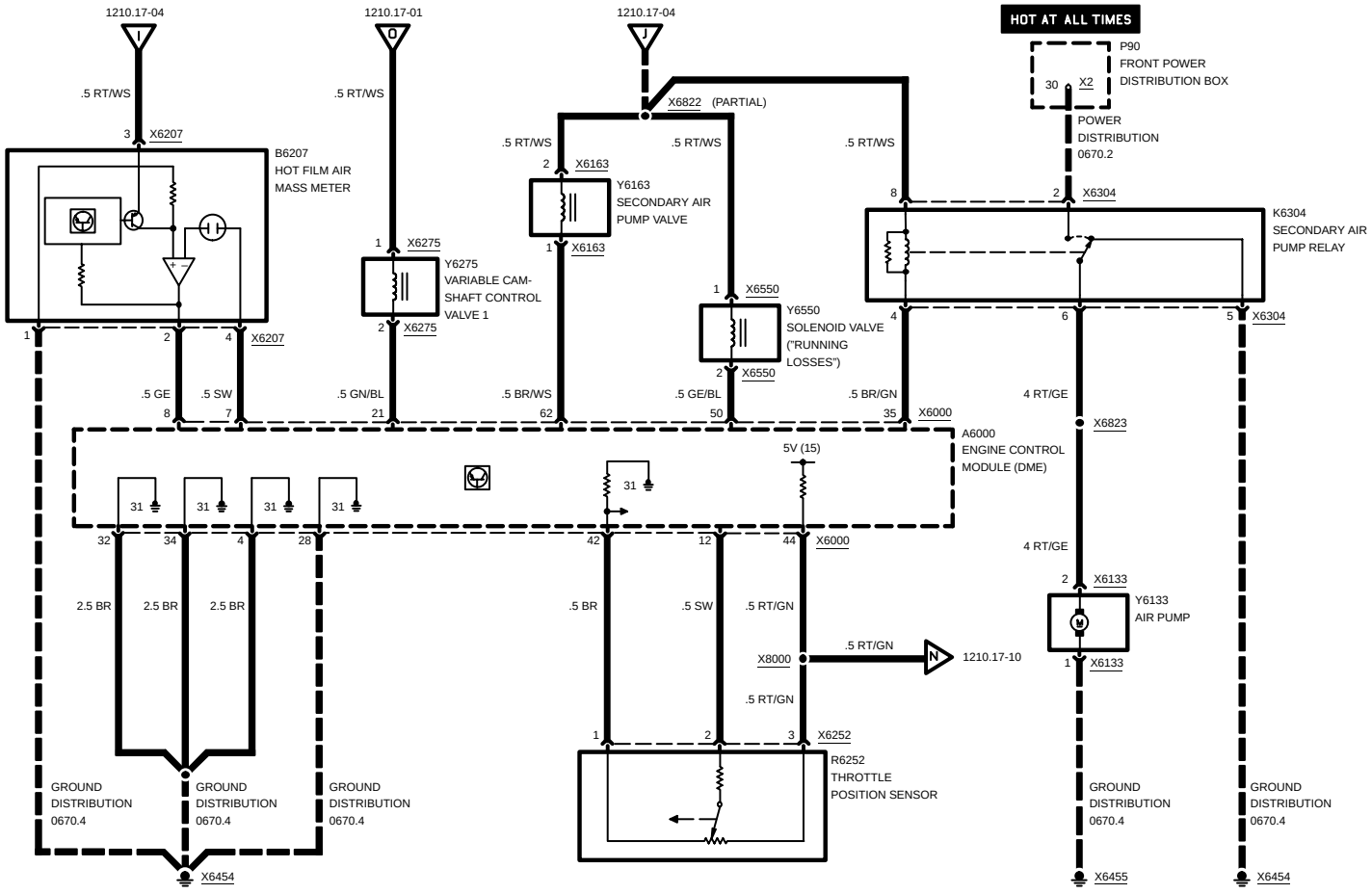
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ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)



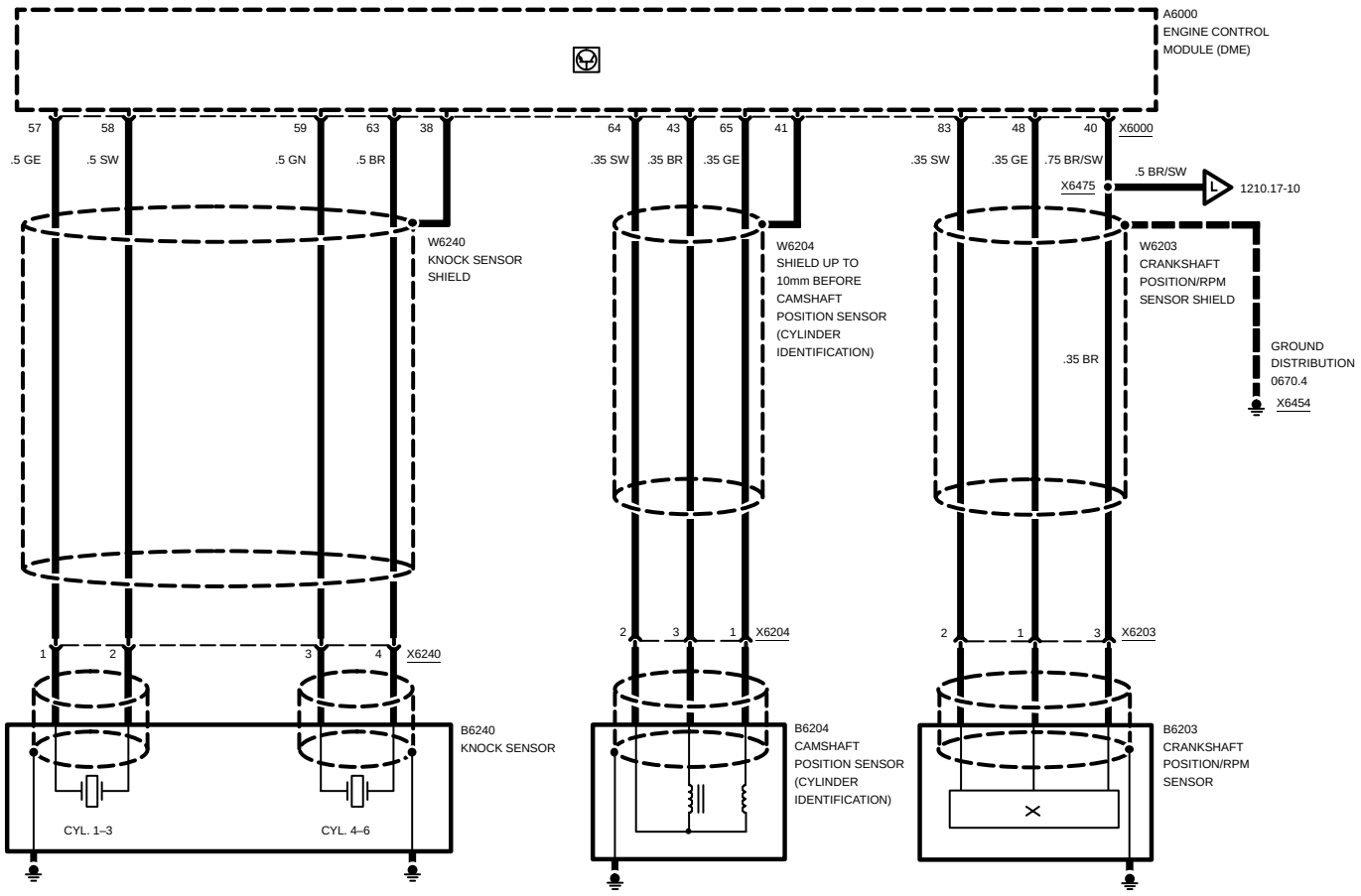
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ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)



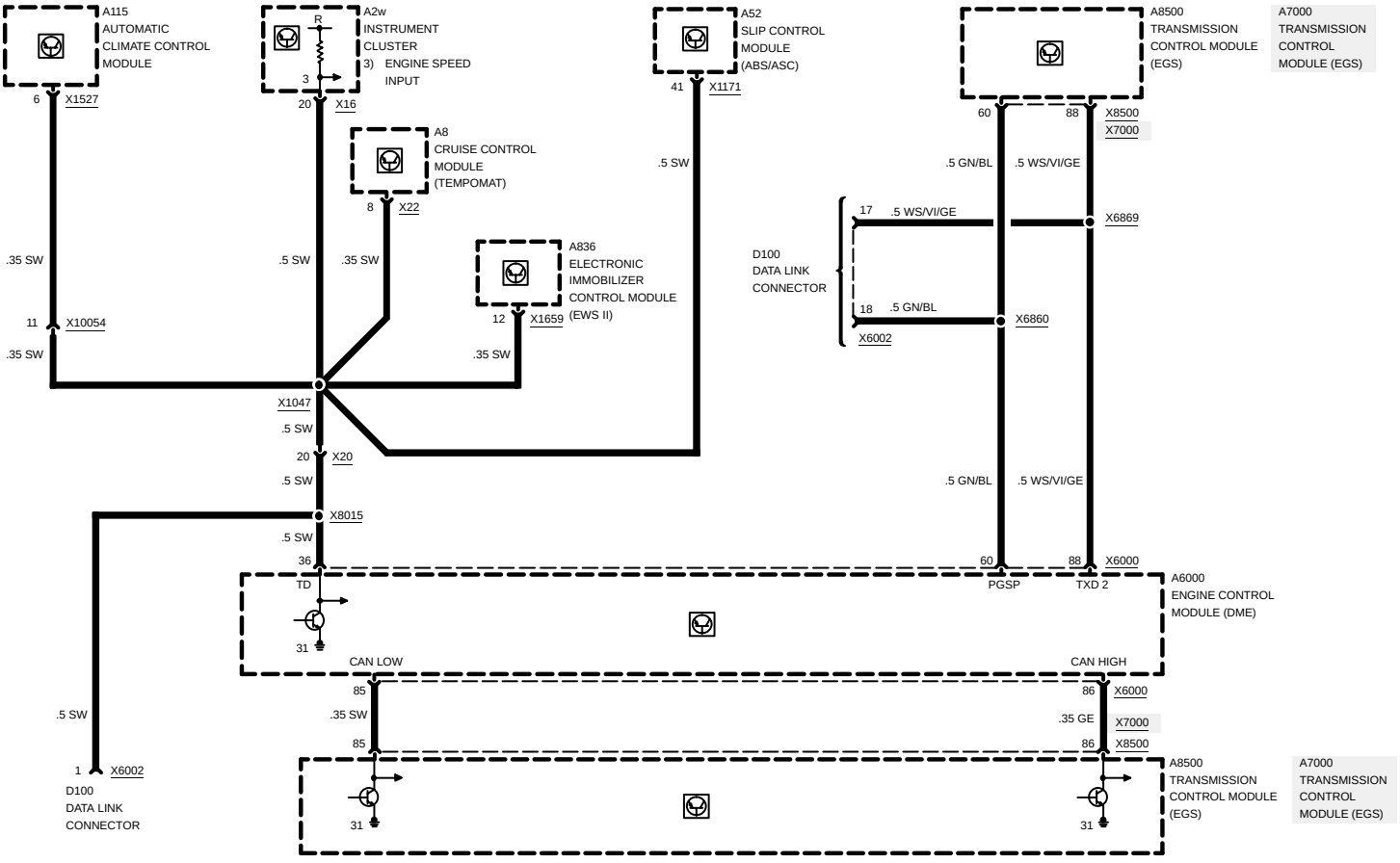
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ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)



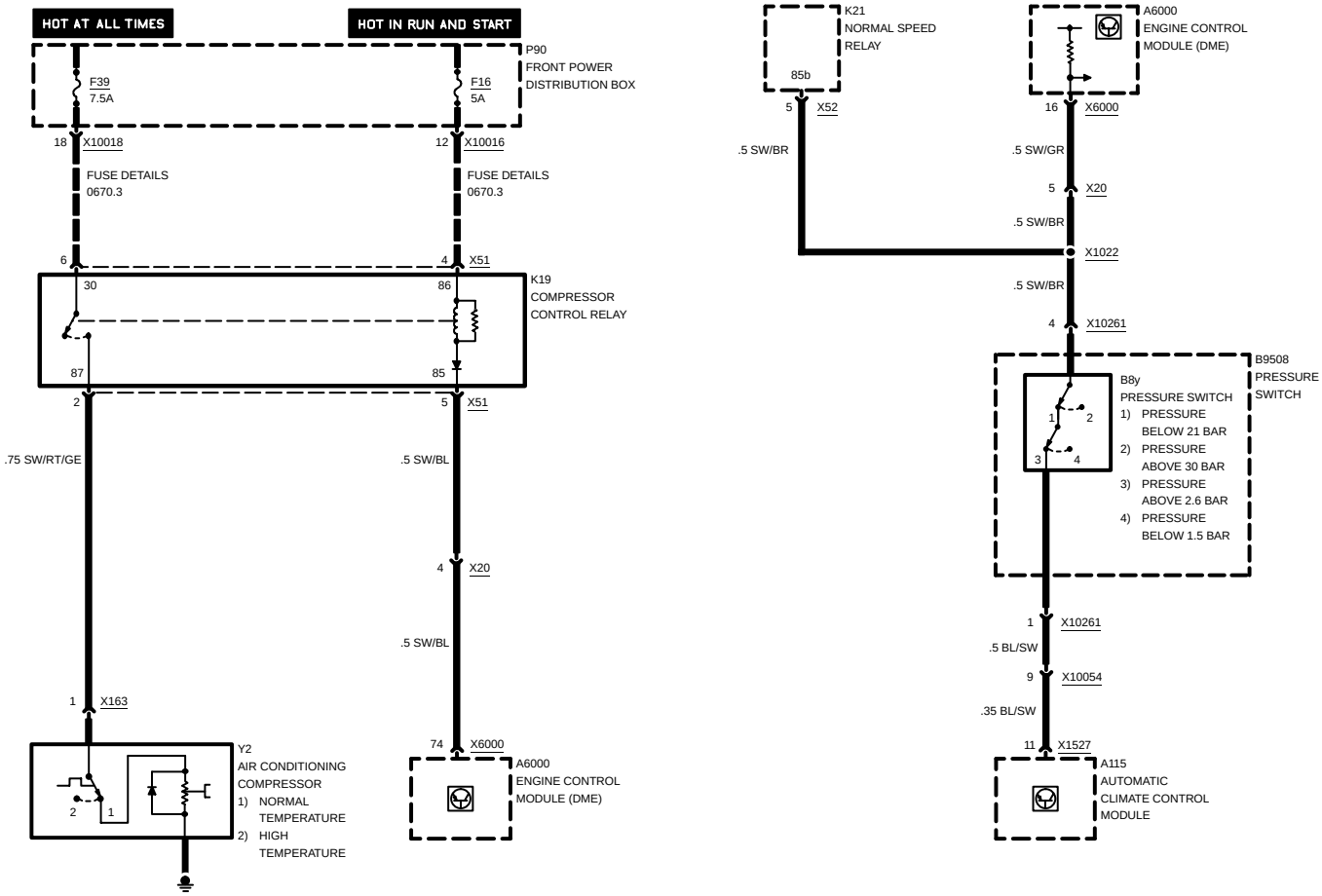
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ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)



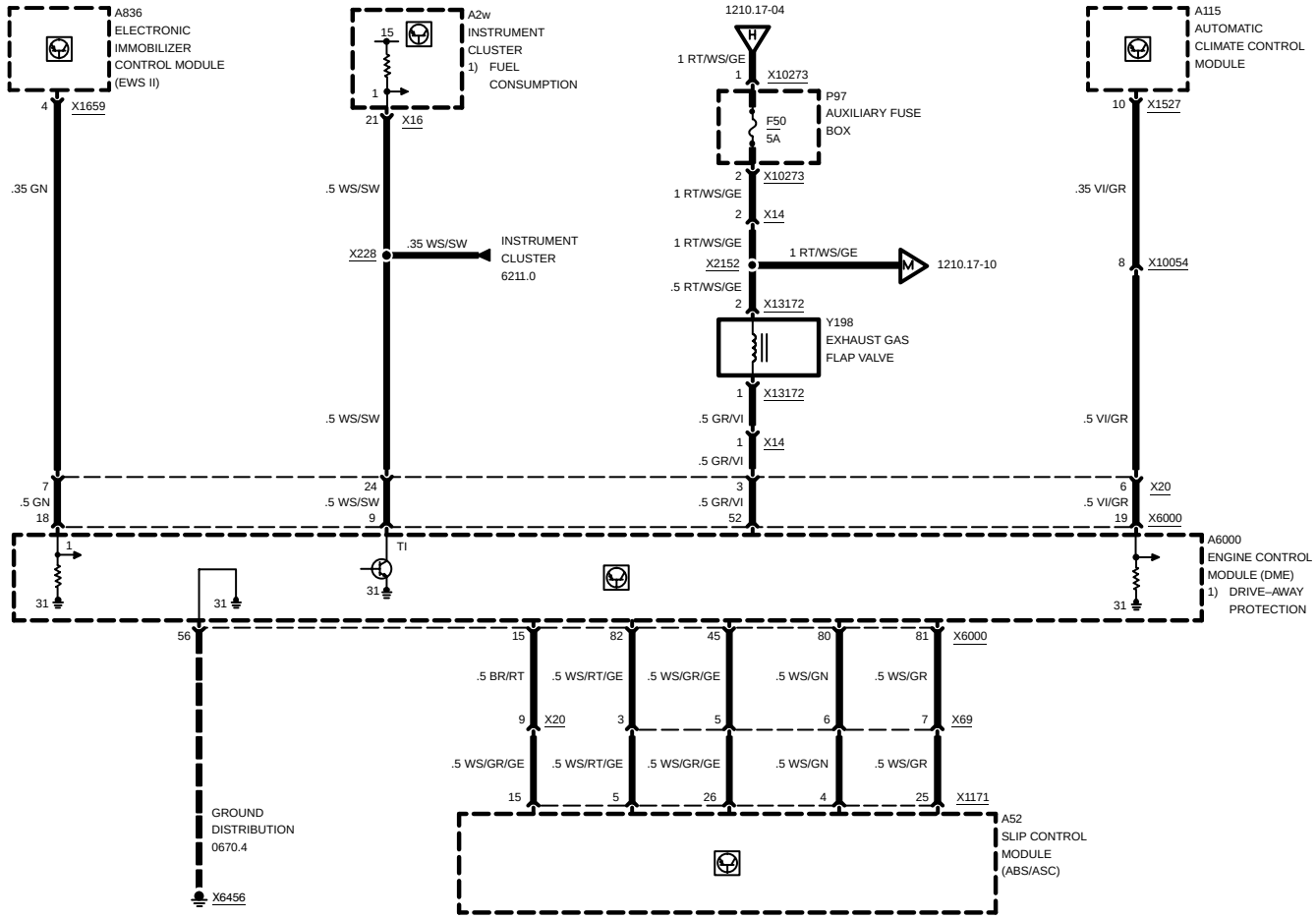
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ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)

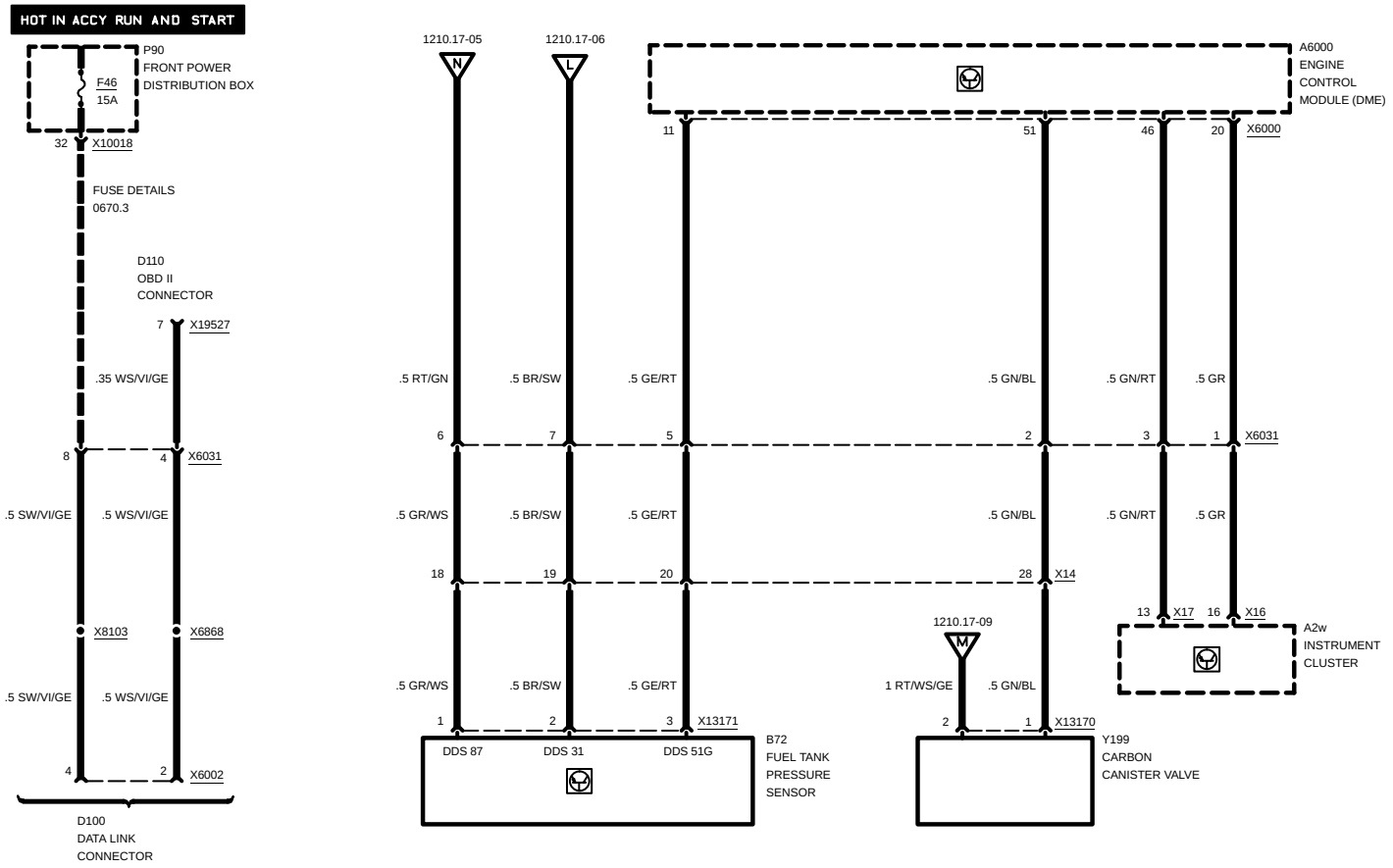


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ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)

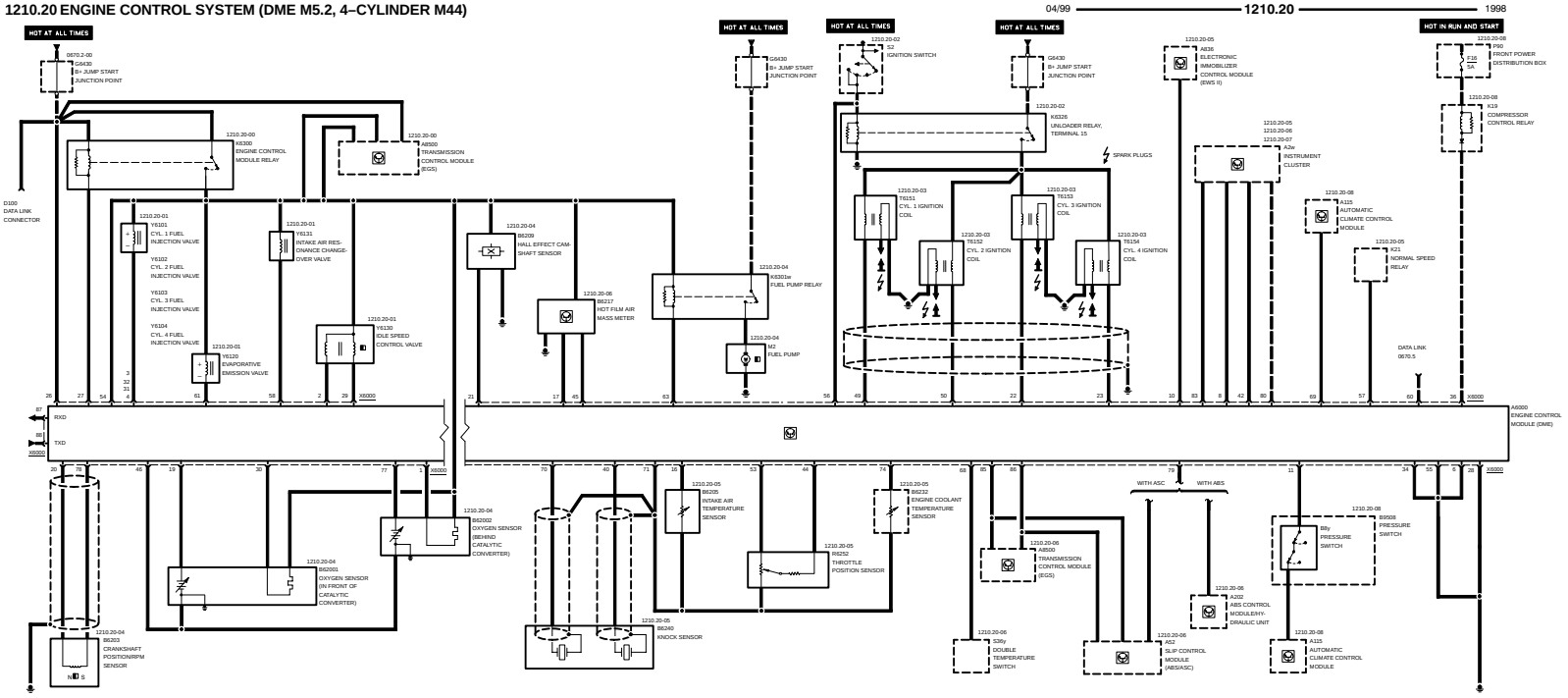


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1210.20 ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



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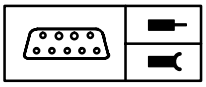
Pin Assignments

X6000

Pin	Type	Description/Function	Connection
89	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
90	A	Activate valve	Idle speed control valve
91	A	Activate valve	Cyl. 1 fuel injection valve
92	A	Activate valve	Cyl. 4 fuel injection valve
93		Not used	
94	M	Ground, fuel injection valve output stages	Ground point
95		Not used	
96	A	“Check engine” indicator control	Instrument cluster
97		Not used	
98	E	Drive-away protection signal	Electronic immobilizer control module (EWS II)
99	E	Activate A/C	Pressure switch
100		Not used	
101		Not used	
102		Not used	
103		Not used	
104	E	Intake air temperature	Intake air temperature sensor
105	M	Ground	Hot film air mass meter
106		Not used	
107	E	Oxygen sensor signal	Oxygen sensor (in front of catalytic converter)
108	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
109	E	Camshaft position	Hall effect camshaft sensor
110	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
111	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
112		Not used	
113		Not used	
114	E	Battery voltage	B+ jump start junction point
115	A	Engine control module relay control	Engine control module relay, terminal 85
116	M	Ground for electronics and shielding of sensors	Ground point

E = Input, A = Output, M = Ground

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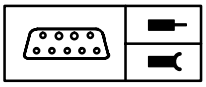


Pin Assignments

Pin	Type	Description/Function	Connection
117	A	Idle speed control valve control	Idle speed control valve
118	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
119	A	Activate valve	Cyl. 3 fuel injection valve
120	A	Activate valve	Cyl. 2 fuel injection valve
121		Not used	
122	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
123		Not used	
124	A	A/C compressor cut-out	Compressor control relay
125		Not used	
126		Not used	
127		Not used	
128	E	Cyl. 3-4 knock sensor	Knock sensor
129		Not used	
130	E	TI-measurement signal (fuel consumption)	Instrument cluster
131		Not used	
132	E	Throttle position	Throttle position sensor
133	E	Signal input	Hot film air mass meter
134	M	Sensor ground	Oxygen sensors
135		Not used	
136		Not used	
137	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
138	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
139		Not used	
140		Not used	
141	A	Component supply (+)	Throttle position sensor
142	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87
143	M	Ground, ignition	Ground point
144	E	Ignition switch, terminal 15	Ignition switch, terminal 15
145	A	Activate auxiliary fan	Normal speed relay
146	A	Activate valve	Intake air resonance changeover valve

E = Input, A = Output, M = Ground

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Pin Assignments

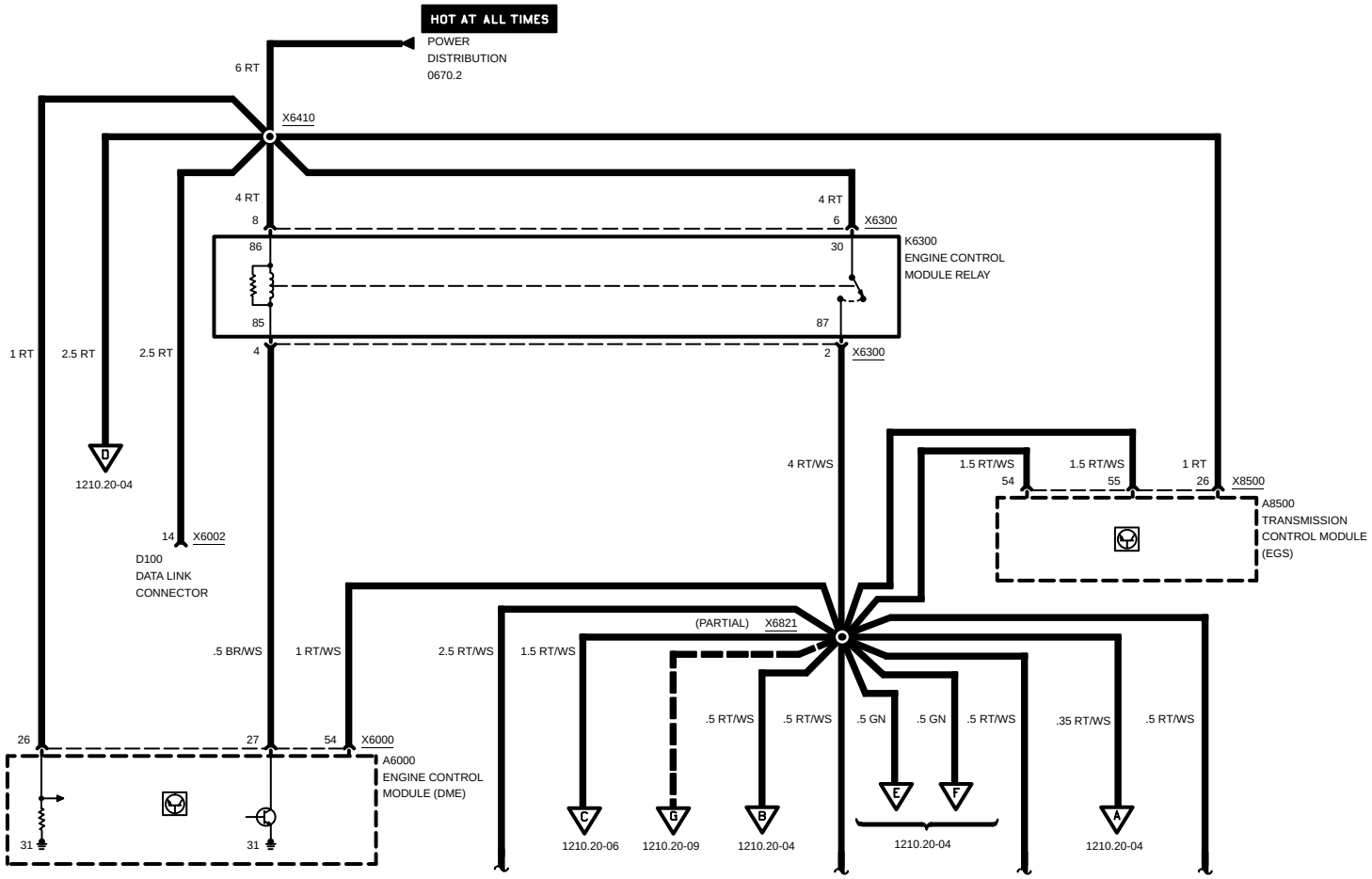
Pin	Type	Description/Function	Connection
147		Not used	
148	E	Programming voltage	Data link connector
149	A	Activate valve	Evaporation emission valve
150		Not used	
151	A	Activate relay	Fuel pump relay
152	A	Secondary air pump valve control	Secondary air pump valve
153	A	Carbon canister valve control	Carbon canister valve
154	A	Fuel changeover valve	Fuel changeover valve
155		Not used	
156	E	Signal above 80 °C	Double temperature switch
157	E	A/C-ON-signal	Air conditioning operating unit
158	E	Cyl 1-2 knock sensor	Knock sensor
159	M	Ground for sensors	Temperature-/knock-/throttle position sensors
160	E	Fuel tank pressure	Fuel tank pressure sensor
161		Not used	
162	E	Temperature signal	Engine coolant temperature sensor
163		Not used	
164		Not used	
165	E	Oxygen sensor signal	Oxygen sensor (behind catalytic converter)
166	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
167	E	Speed signal right rear	ABS/ASC control module
168	A	Crankshaft RPM speed signal TD	Instrument cluster
169		Not used	
170		Not used	
171	E	Vehicle speed signal	Instrument cluster
172		Not used	
173	E/A	CAN-LOW	EGS/ASC control module
174	E/A	CAN-HIGH	EGS/ASC control module
175	A	RxD diagnosis data line	Data link connector
176	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

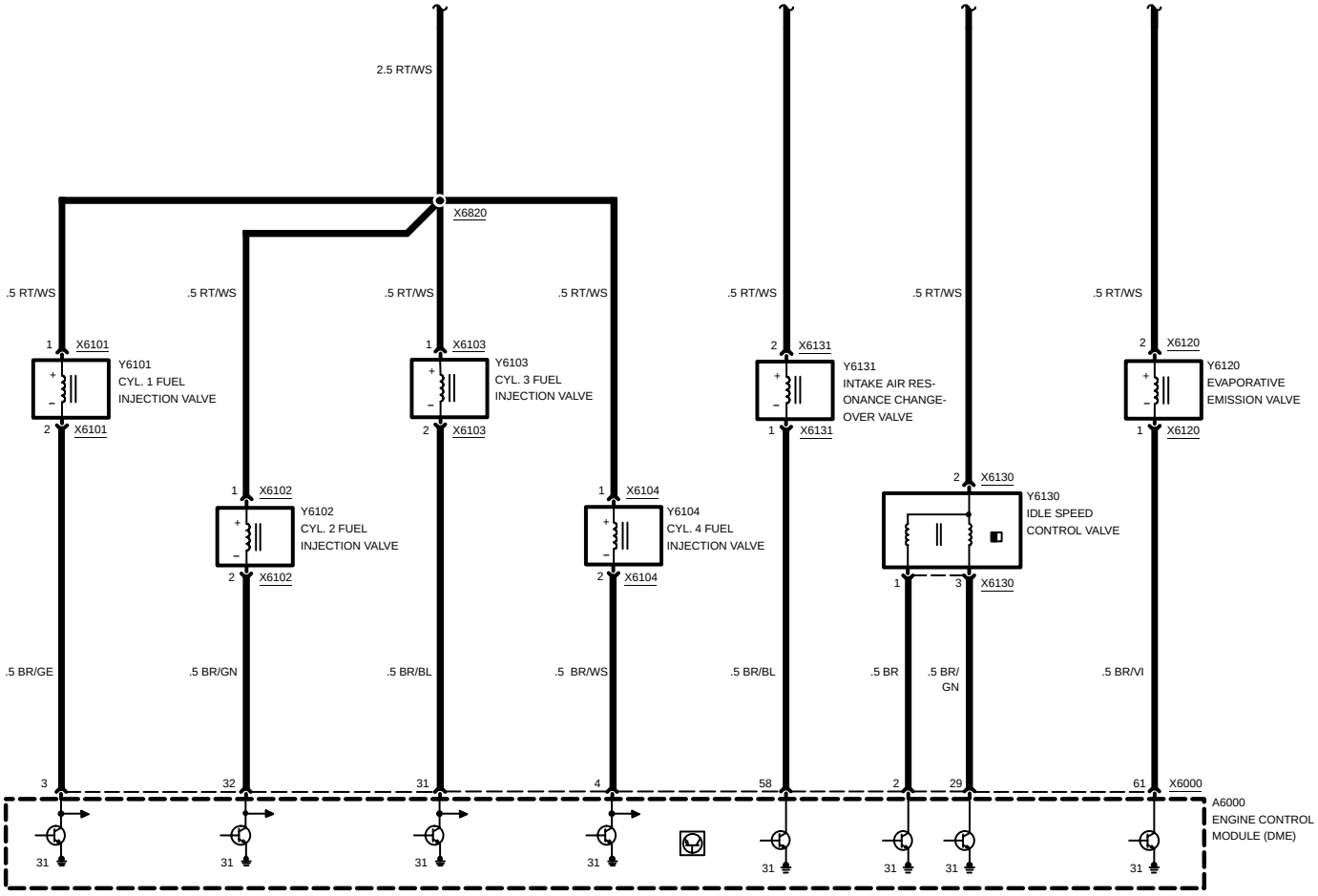
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ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

POWER, FUEL INJECTION VALVES

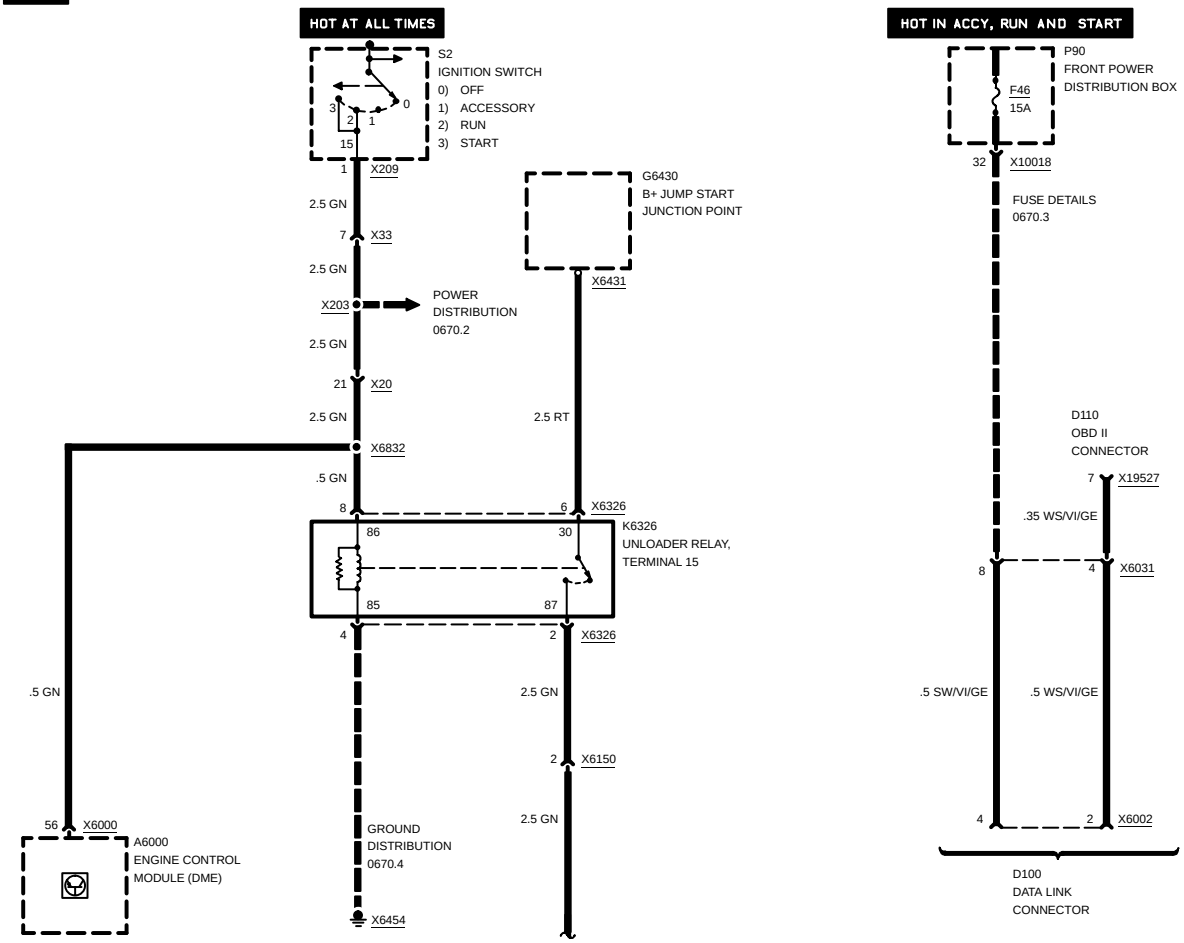


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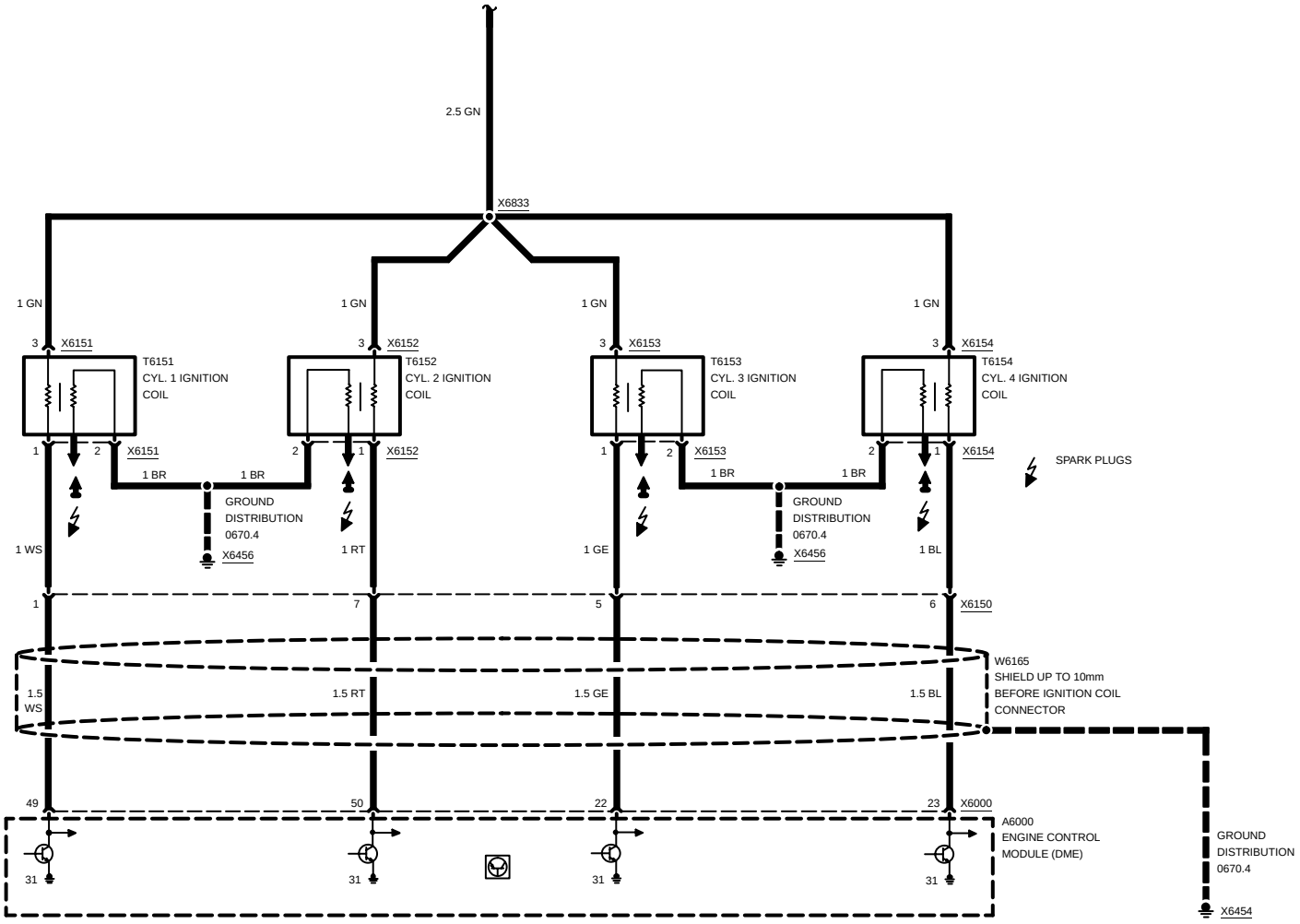


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ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



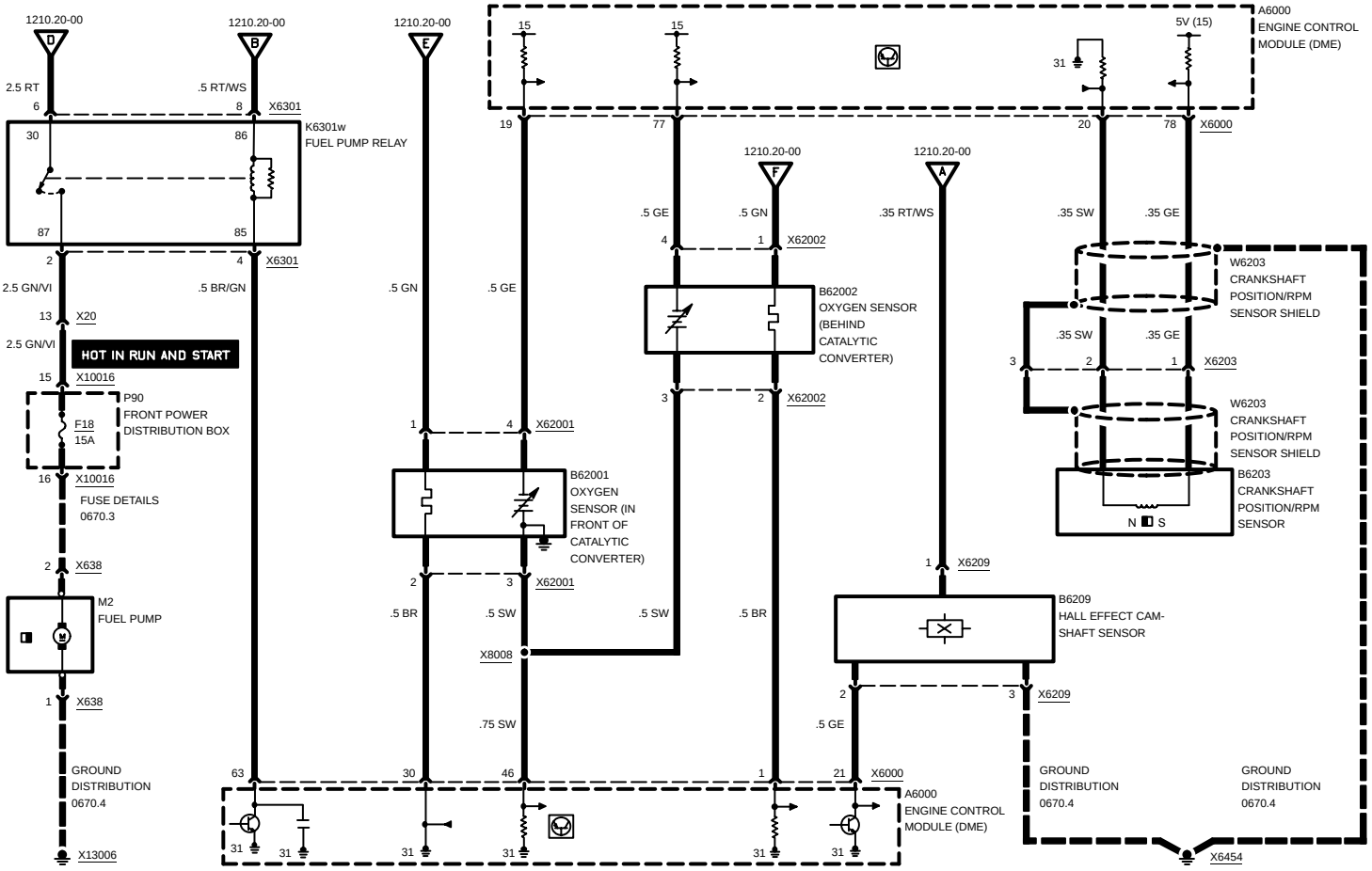
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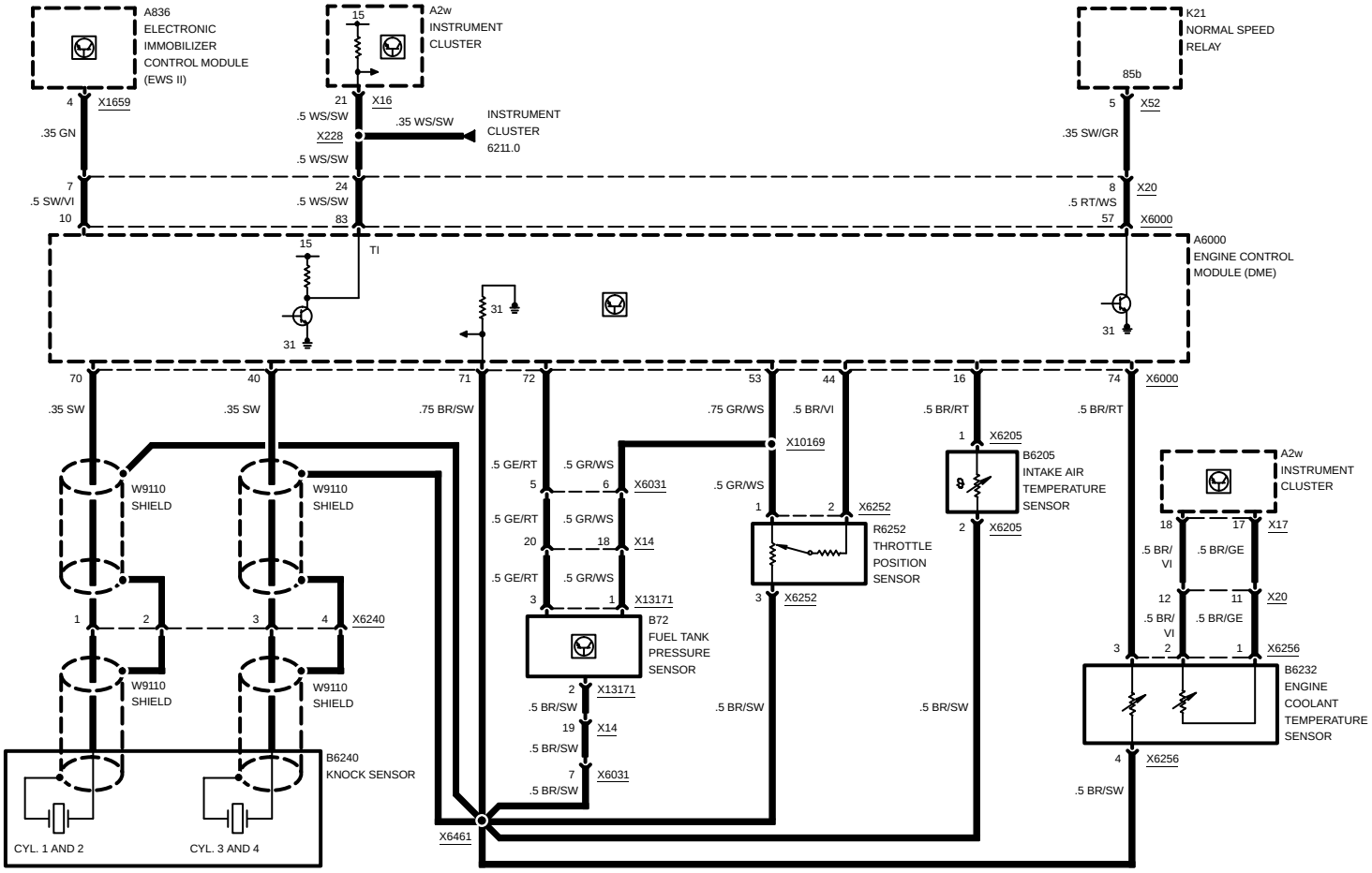
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

FUEL PUMP, HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS



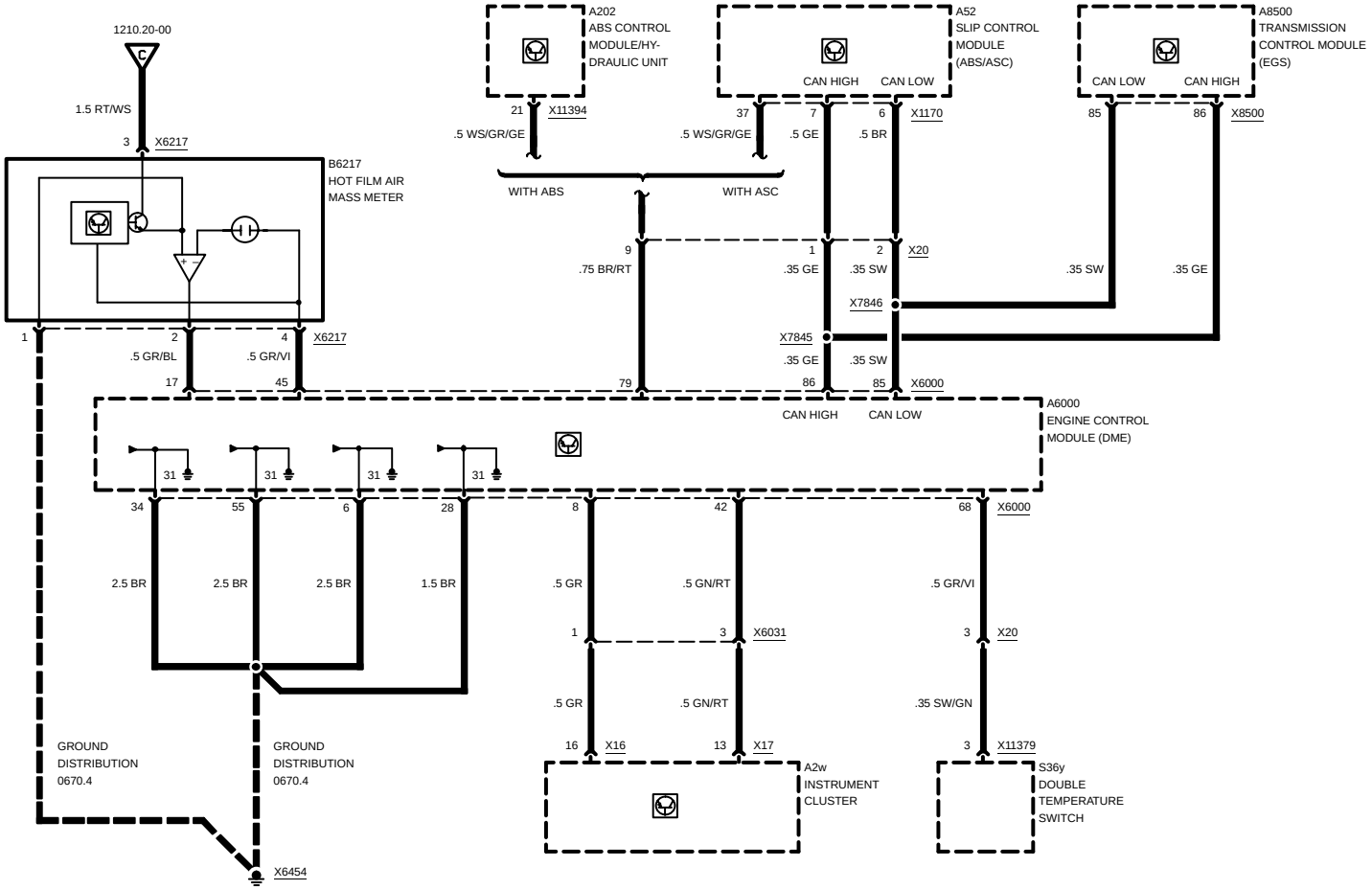
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ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



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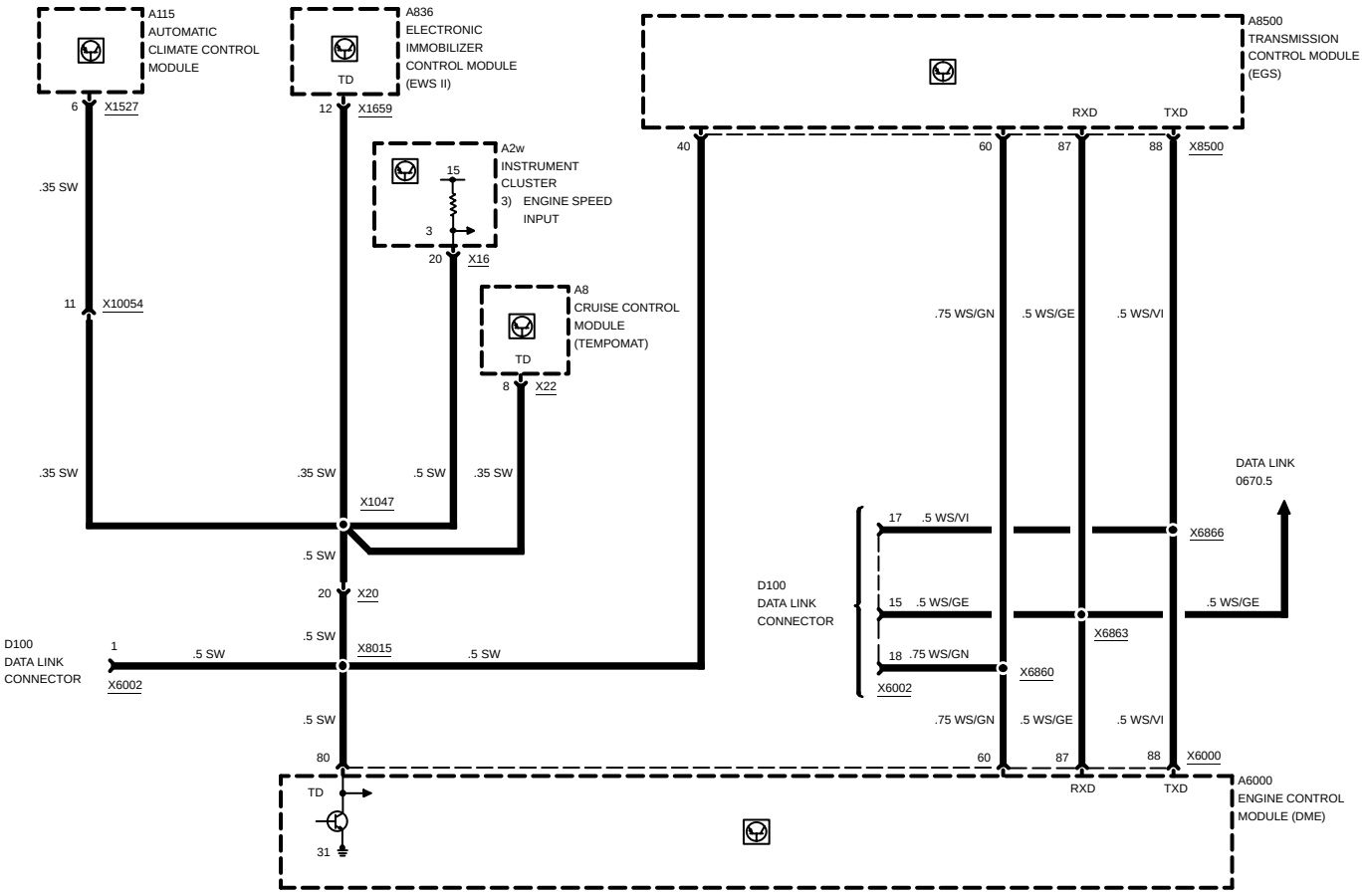
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



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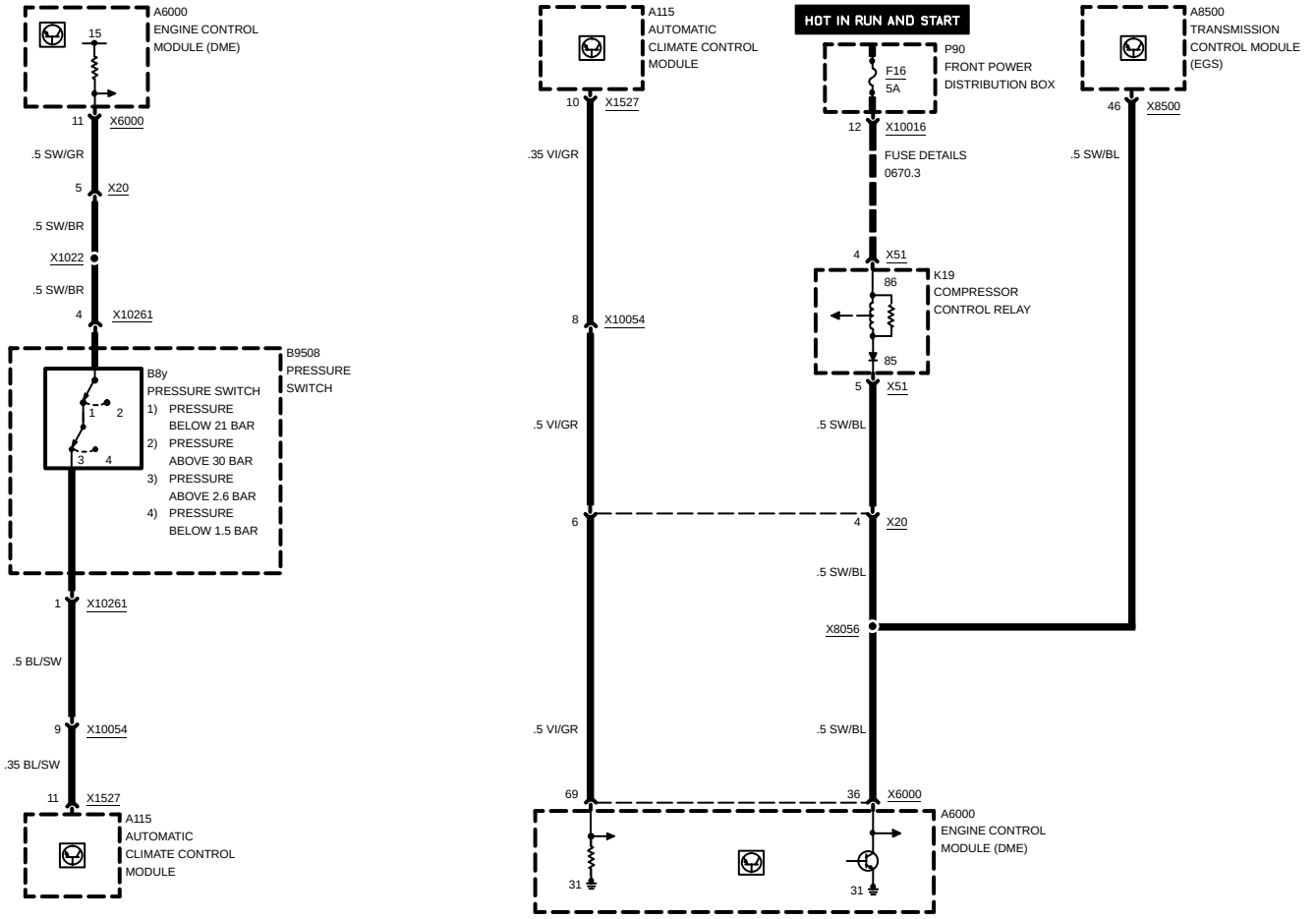
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

DATA LINK



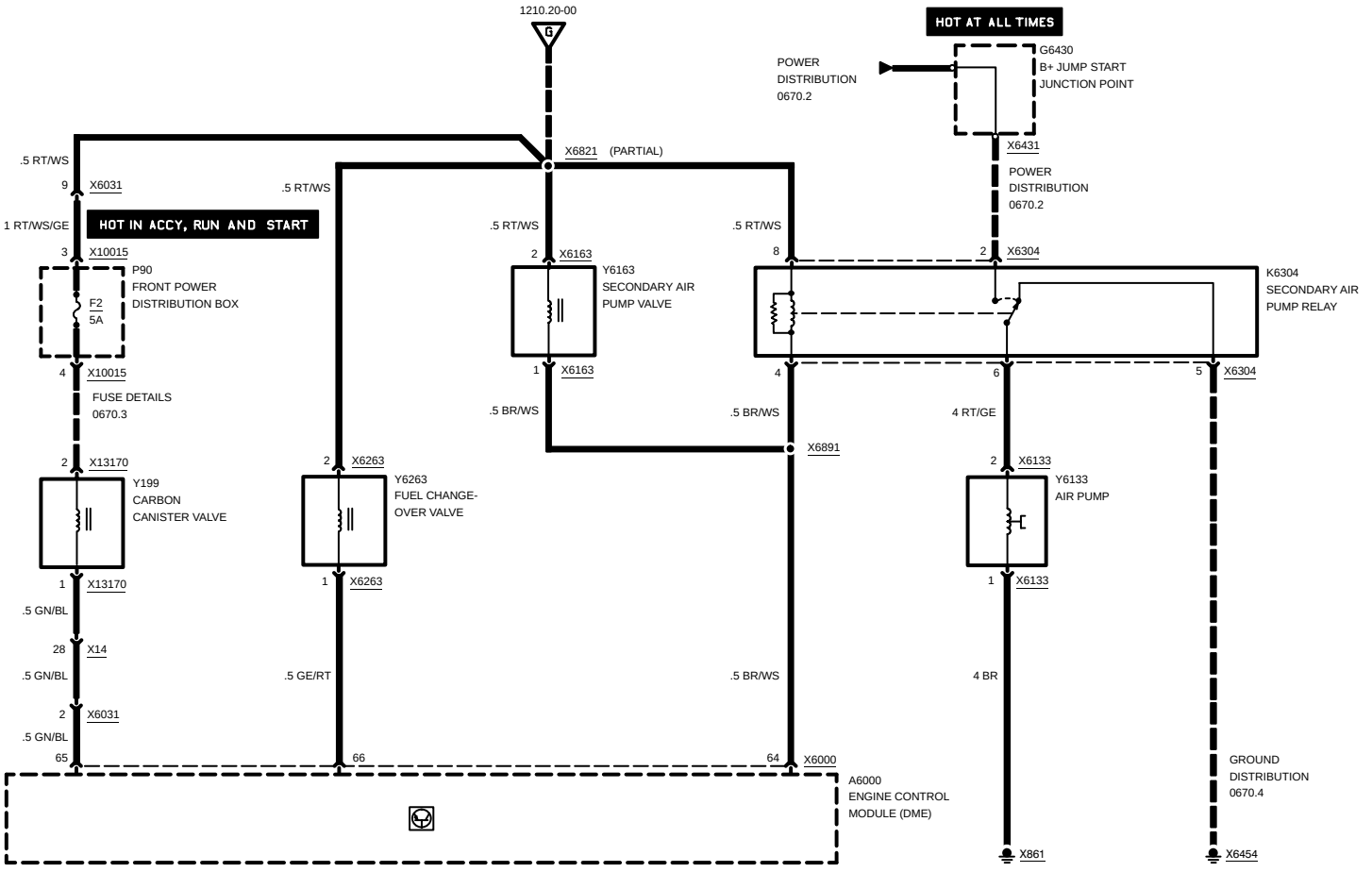
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ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



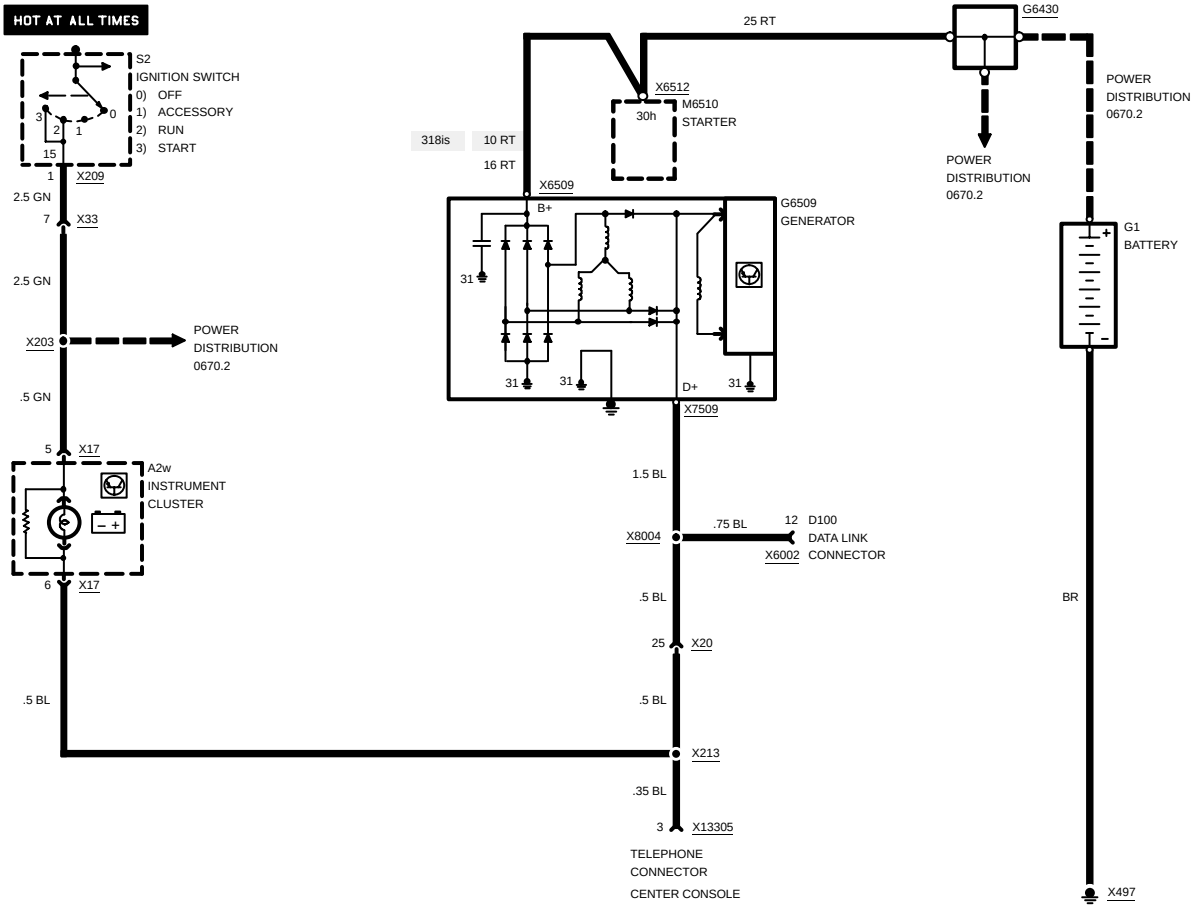
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ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



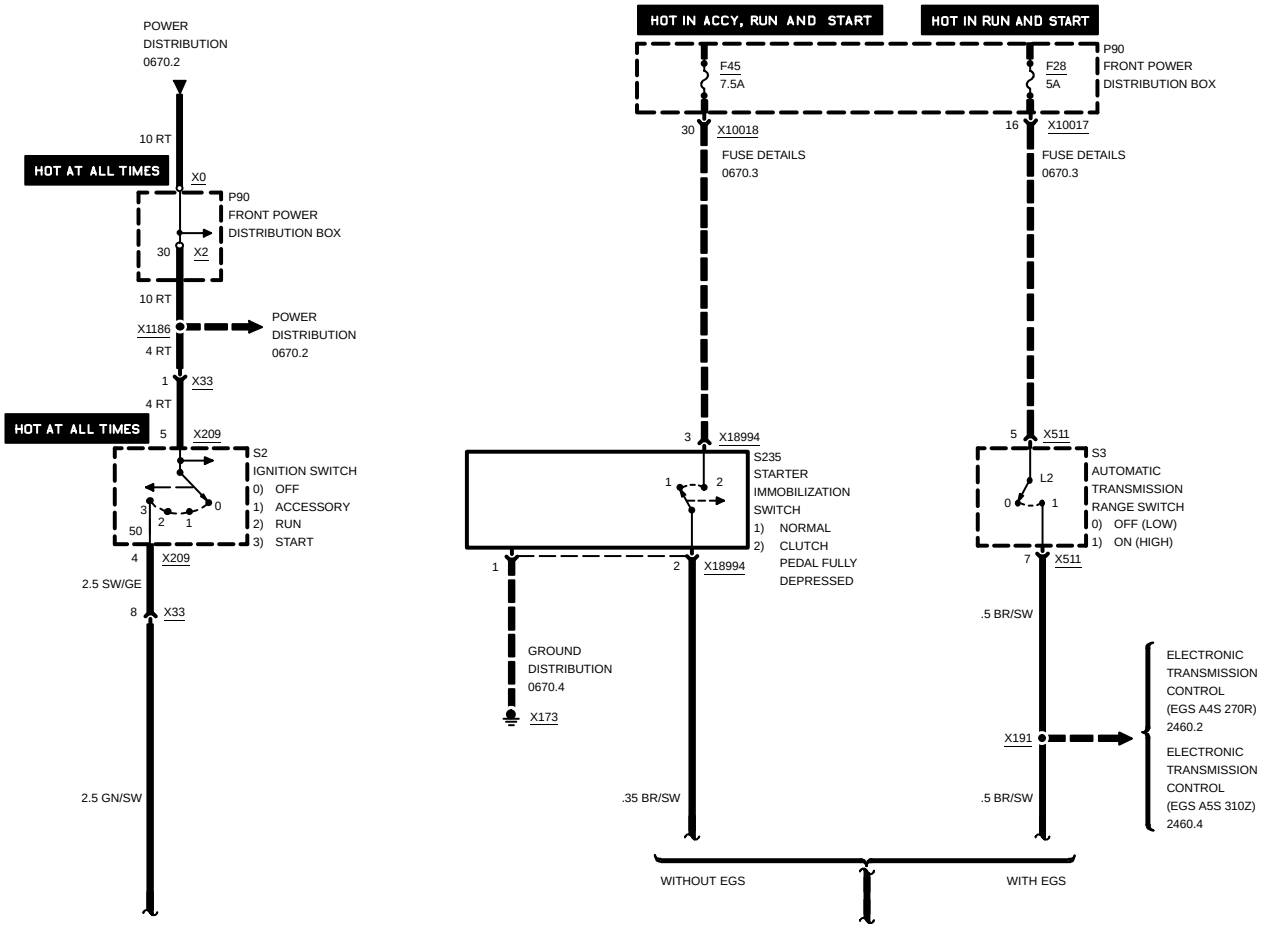
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1230.0 CHARGING SYSTEM



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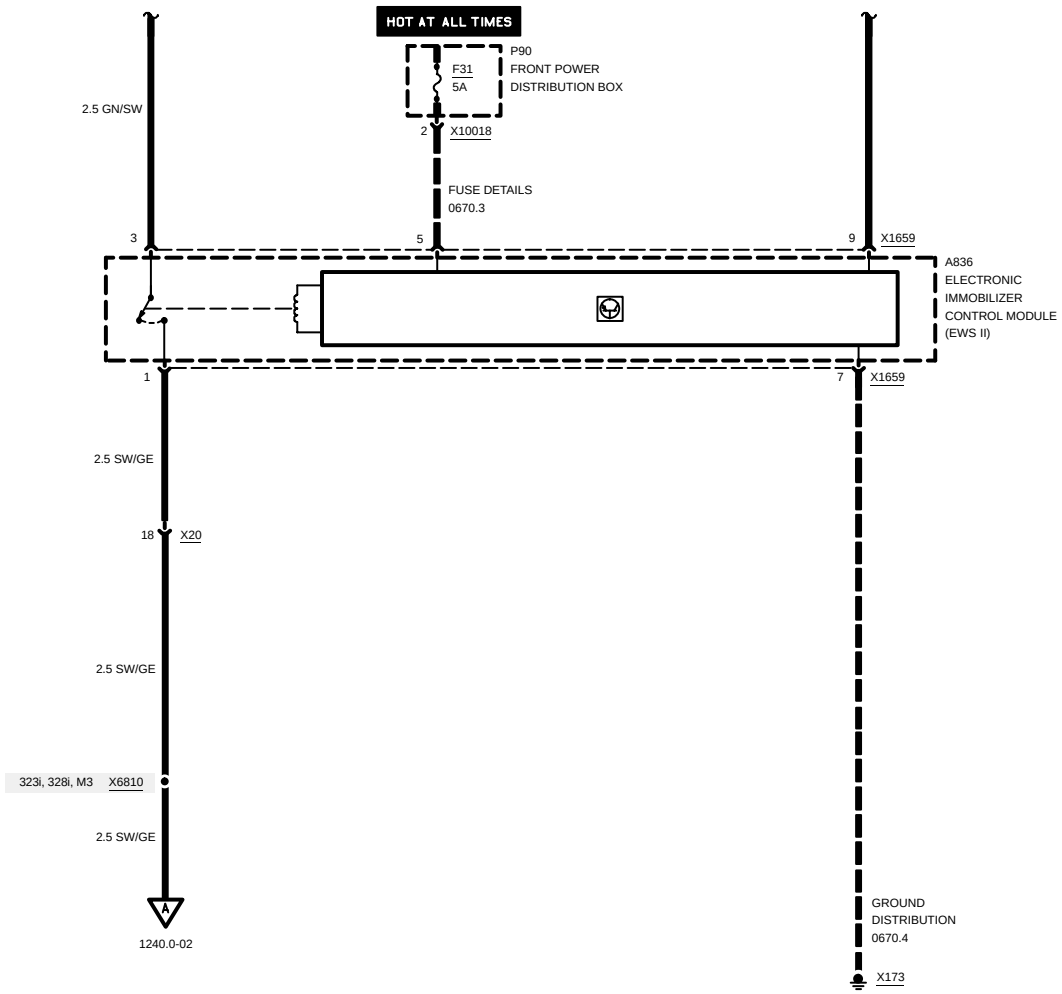
1240.0 START



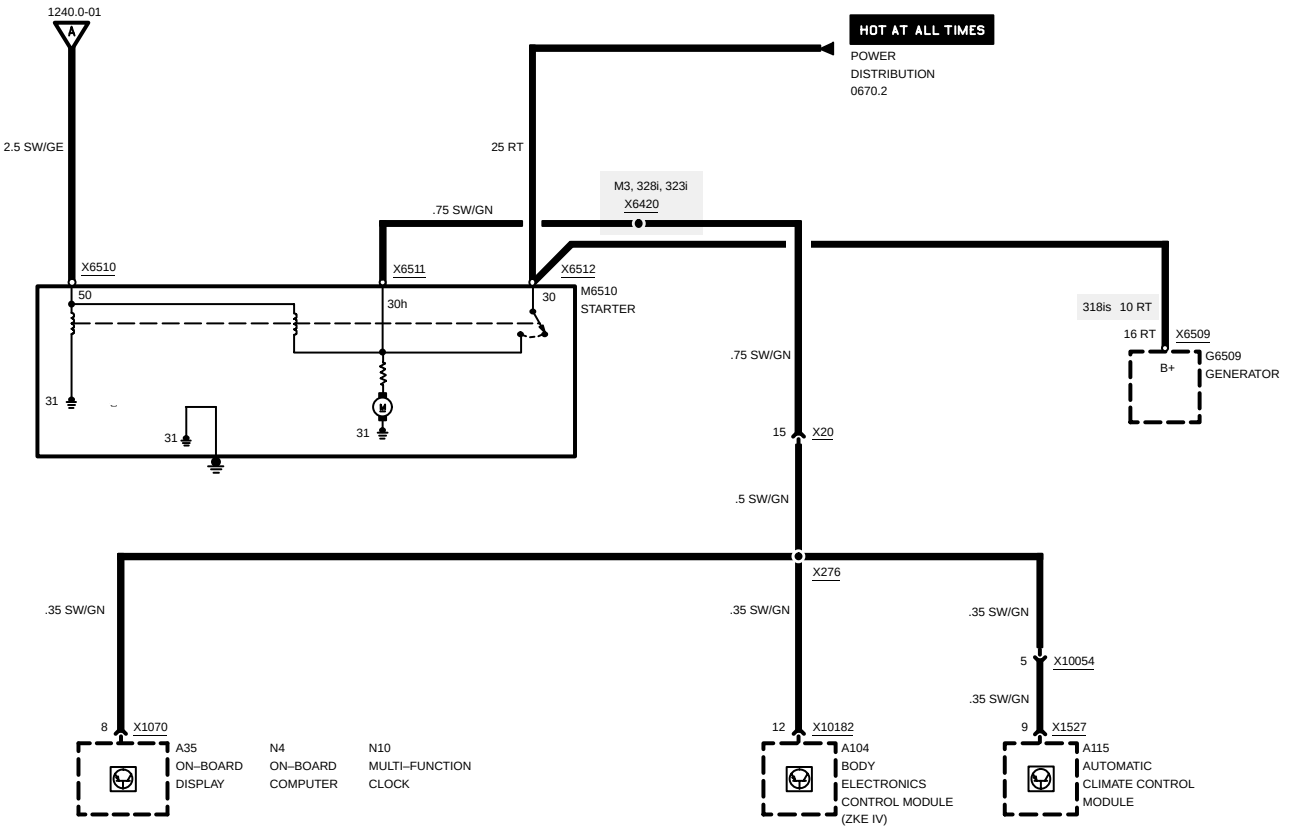
EGS A4S 270R
EGS A5S 310Z

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

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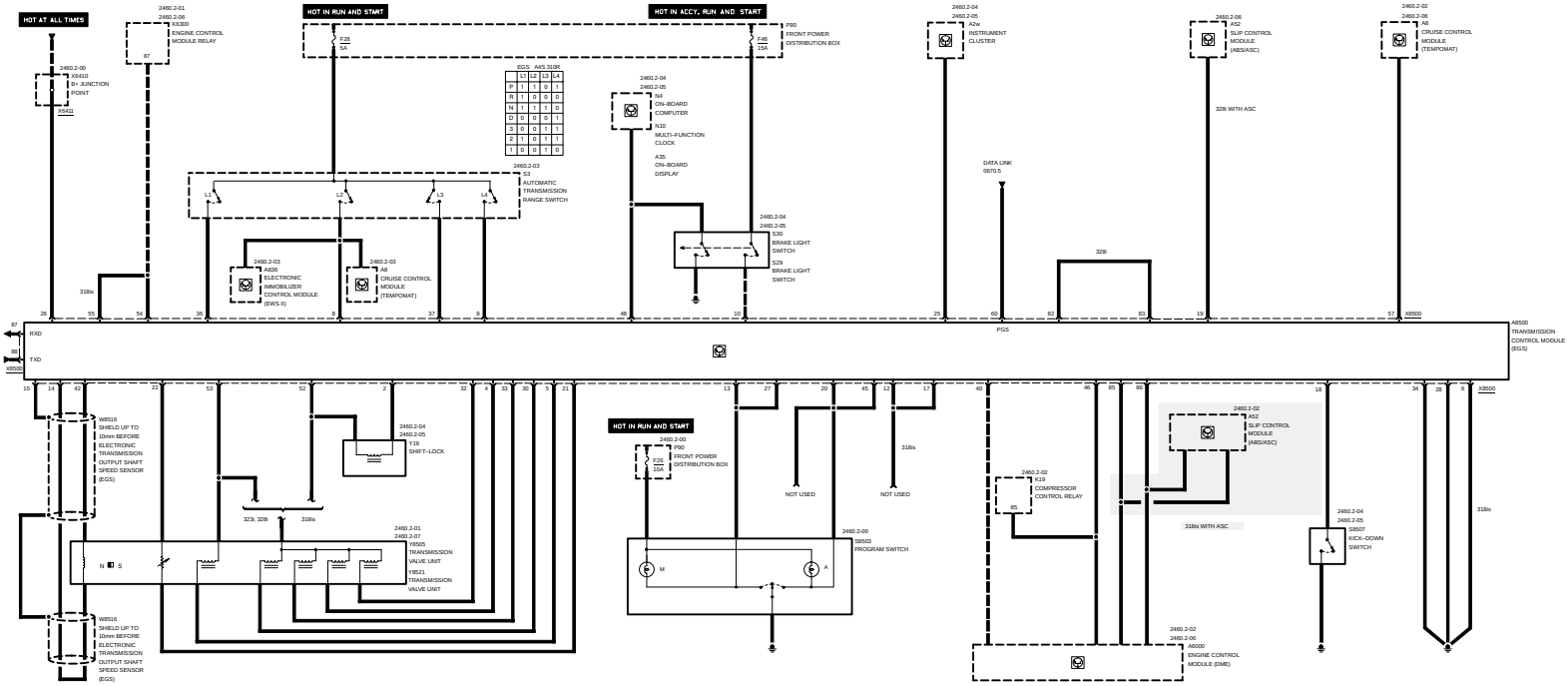


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2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)



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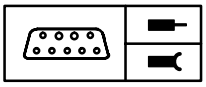
Pin Assignments

X8500

Pin	Type	Description/Function	Connection
177		Not used	
178	A	Shift-lock solenoid control	Shift-lock
179		Not used	
180	A	Band solenoid	Transmission valve unit (318is)
4	A	Solenoid valve 3 control (–)	Transmission valve unit (328i)
181	A	Hydraulic pressure regulator control (–)	Transmission valve unit
182	M	Ground	Ground point (318is)
183		Not used	
184	E	Gear range signal L2	Automatic transmission range switch
185	E	Gear range signal L4	Automatic transmission range switch
186	E	Brake pedal position	Brake light switch
187		Not used	
188	E	Sport mode signal	Not used
189	E	Manual mode signal	Program switch
190	E	Output speed (–)	Transmission valve unit
191	M	Ground for shield	Shield for speed sensor
192		Not used	
193	A	S-program indication	Not used
194	E	Kick-down signal	Kick-down switch
195	E	ASC signal	ASC module (328i)
196	E	Automatic mode signal	Program switch
197	E	Oil temperature signal (–)	Transmission valve unit
198	E	Oil temperature signal (+)	Transmission valve unit
199		Not used	
200		Not used	
201	A	Fault indicator signal	Instrument cluster
202	E	Battery voltage	B+ jump start junction point
203	A	M-program indication	Program switch
204	M	Ground	Ground point
205		Not used	

E = Input, A = Output, M = Ground

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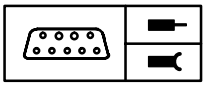


Pin Assignments

Pin	Type	Description/Function	Connection
206	A	Solenoid valve 1 control (–)	Transmission valve unit
207		Not used	
208	A	Torque converter clutch solenoid valve control (–)	Transmission valve unit
209	A	Solenoid valve 2 control (–)	Transmission valve unit
210	M	Ground	Ground point
211		Not used	
212	E	Gear range signal L1	Automatic transmission range switch
213	E	Gear range signal L3	Automatic transmission range switch
214		Not used	
215		Not used	
216	E	RPM speed signal TD	Engine control module (318is)
217		Not used	
218	E	Output speed (+)	Transmission valve unit
219		Not used	
220		Not used	
221	A	A-program indication	Program switch
222	E	A/C compressor-ON-signal	Engine control module (318is)
223		Not used	
224	E	Brake switch test signal	Brake light switch
225		Not used	
226		Not used	
227		Not used	
228	A	Voltage supply	Shift-lock/Transmission valve unit (318is)
52	A	Voltage supply	Shift-lock (328i)
229	E	Voltage pressure regulator	Transmission valve unit
230	E	Voltage supply, terminal 87	Engine control module relay
231	E	Voltage supply, terminal 87	Engine control module relay (318is)
232		Not used	
233	E	Cruise control signal	Cruise control module
234		Not used	
235		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments

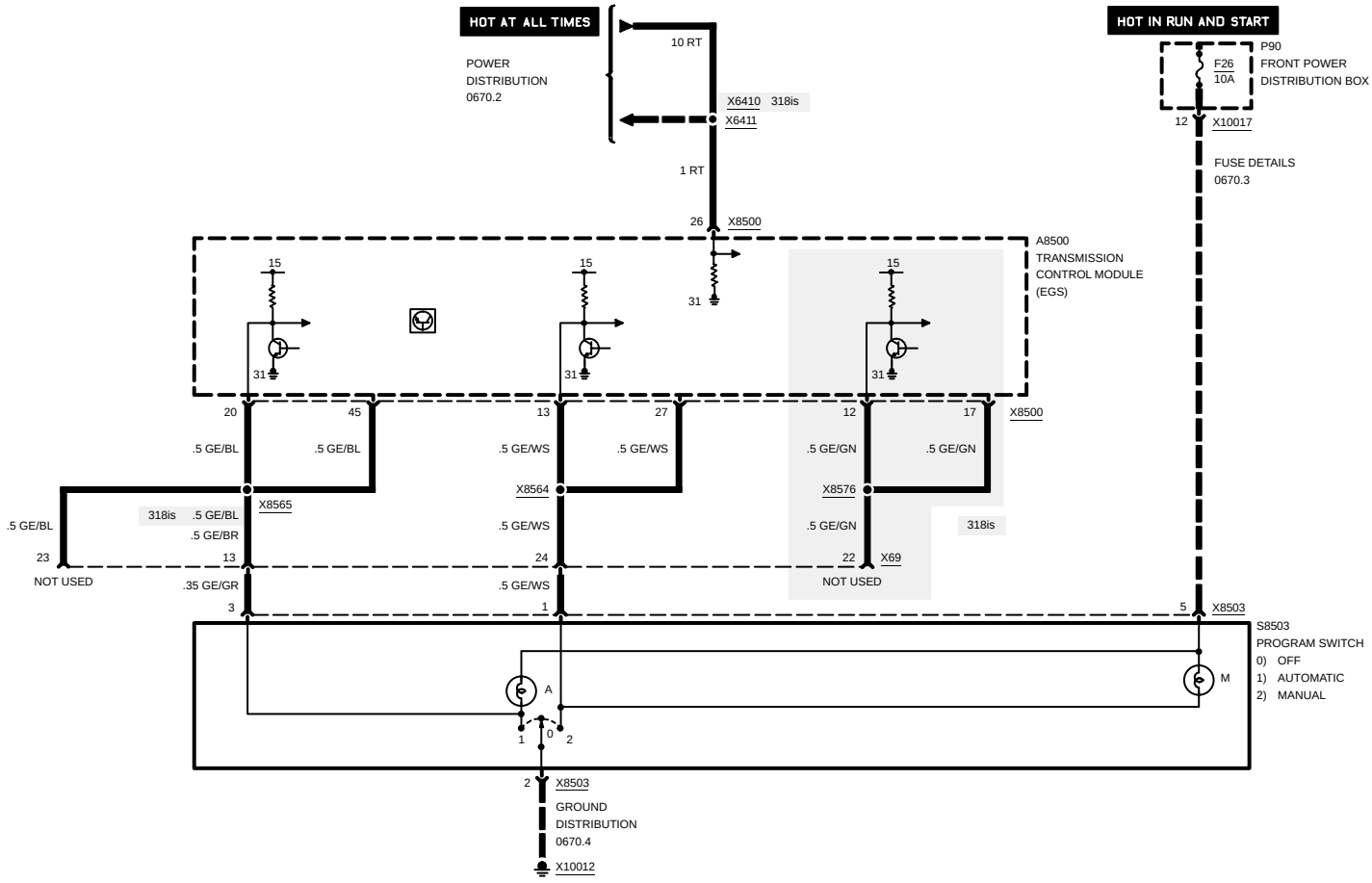
Pin	Type	Description/Function	Connection
236	E	Programming voltage	Data link connector
237		Not used	
238		Not used	
239		Not used	
240		Not used	
241		Not used	
242		Not used	
243		Not used	
244		Not used	
245		Not used	
246		Not used	
247		Not used	
248		Not used	
249		Not used	
250		Not used	
251		Not used	
252		Not used	
253		Not used	
254		Not used	
255		Not used	
256		Not used	
257		Not used	
258	E/A	Jumper plug	(328i)
259	E/A	Jumper plug	(328i)
260		Not used	
261	E/A	Can-Low	Engine control module
262	E/A	Can-High	Engine control module
263	A	RxD diagnostic data link	Data link connector (318is)
264	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)

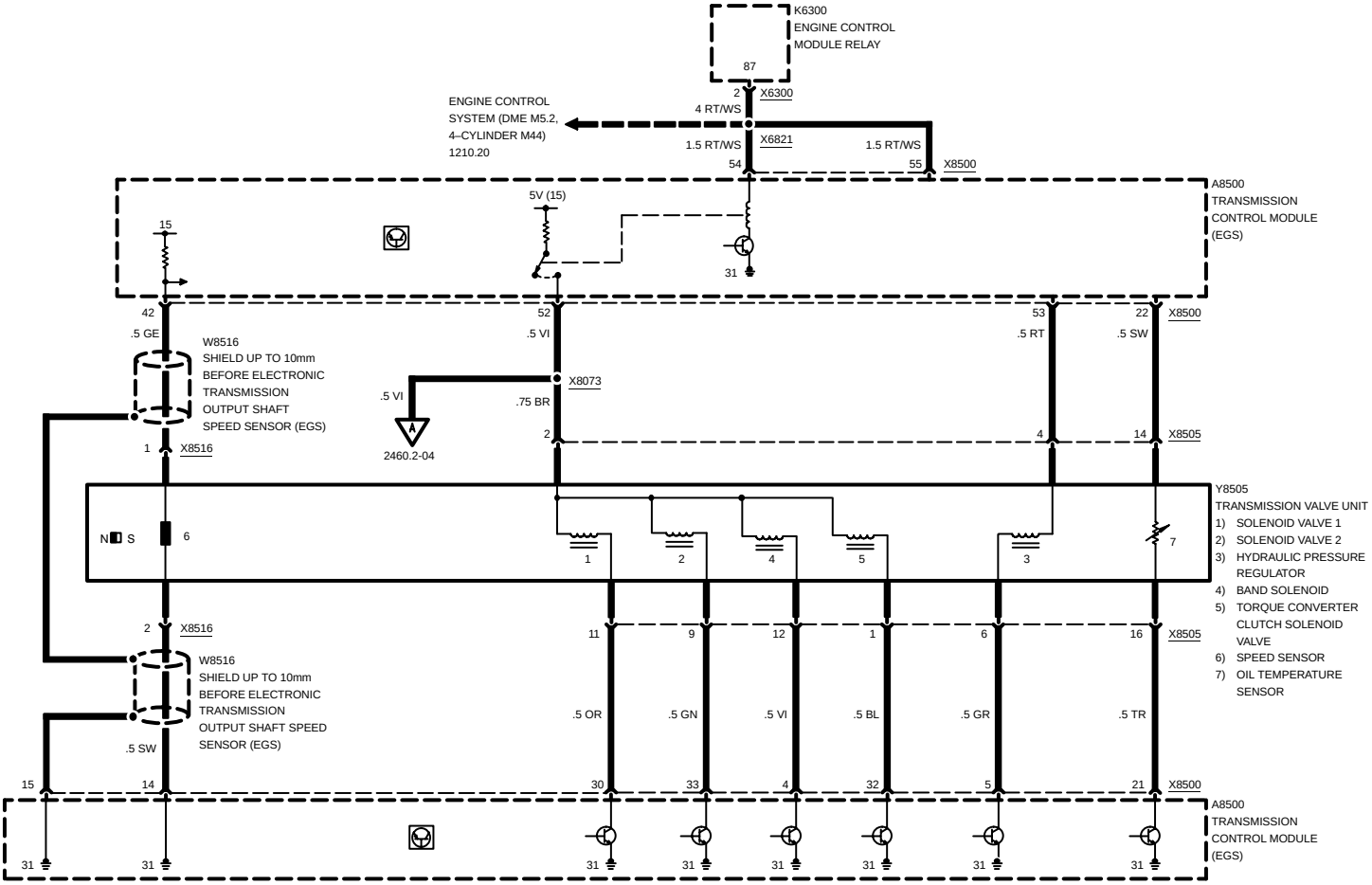
POWER, PROGRAM SWITCH



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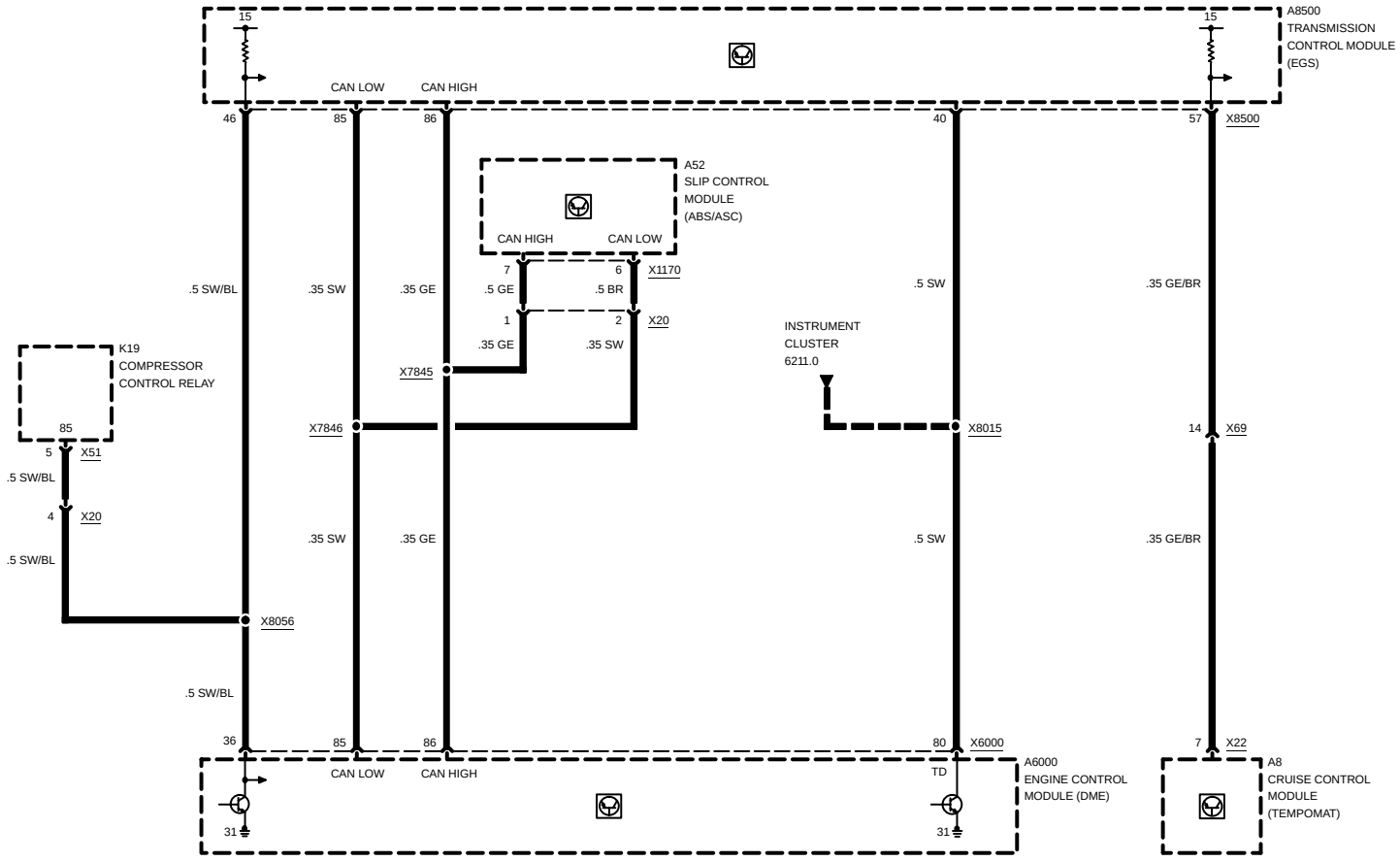
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R) 318is

POWER



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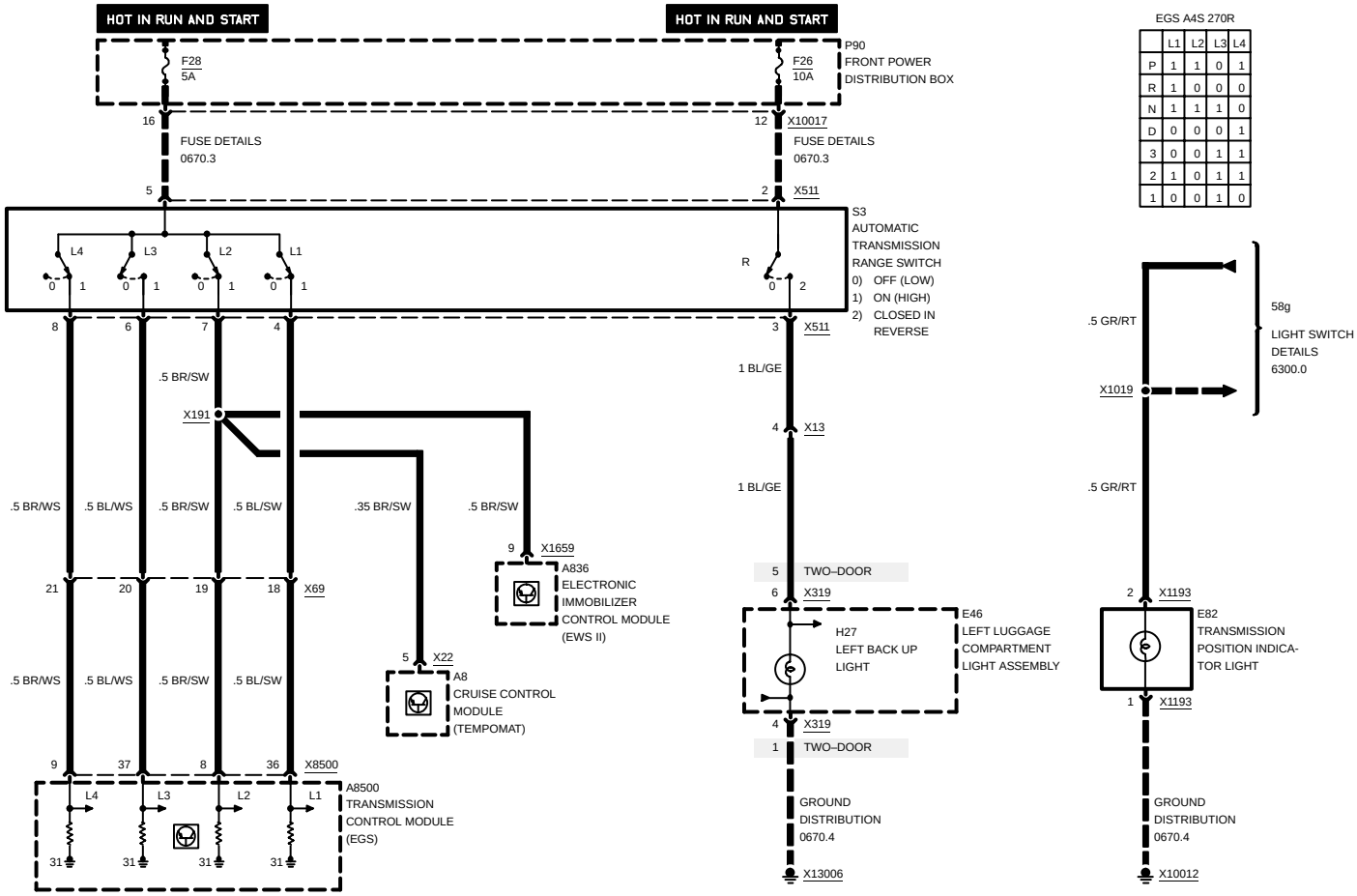
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R) 318is



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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)

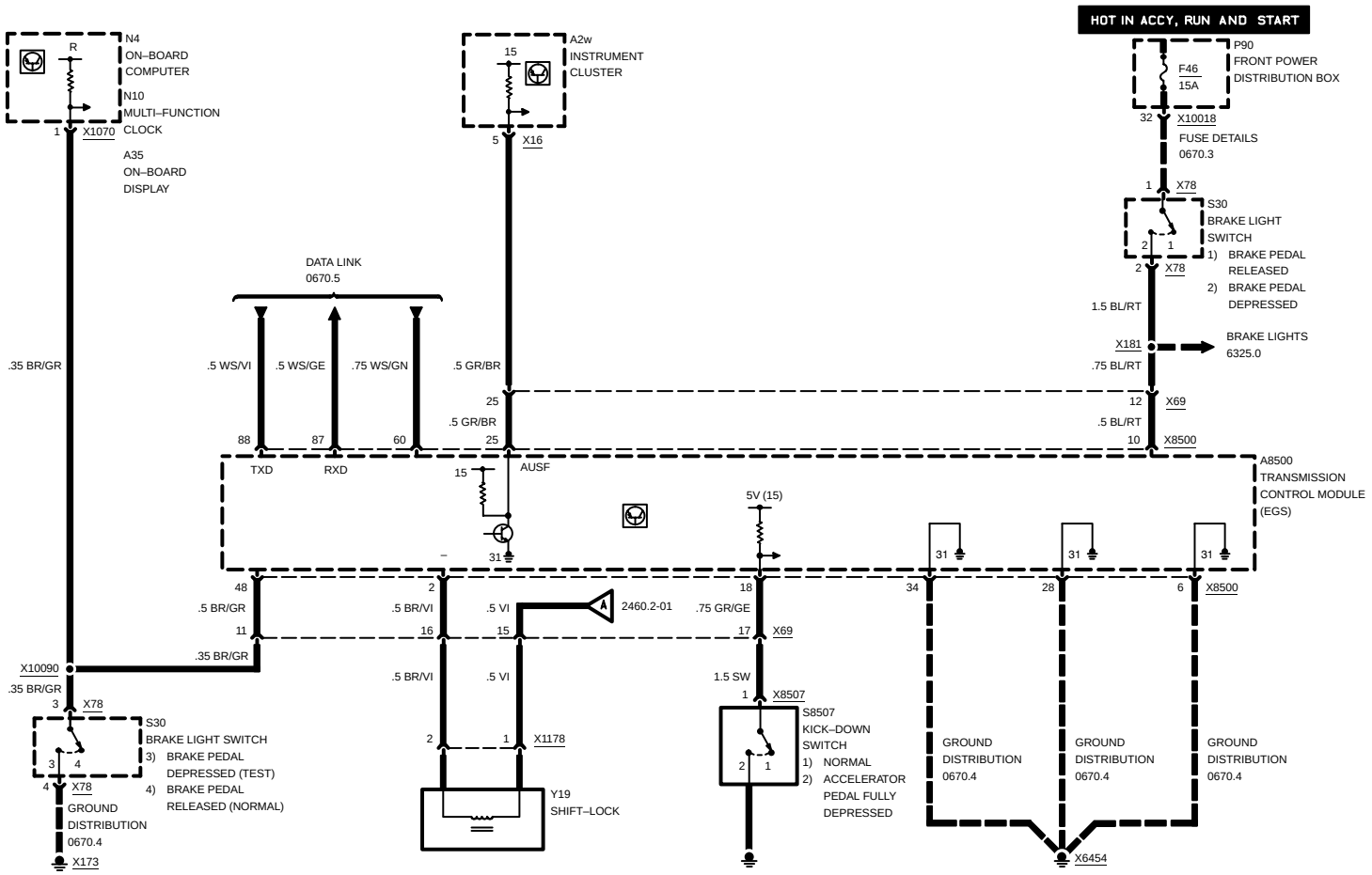
GEAR SELECTOR SWITCH



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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R) 318is

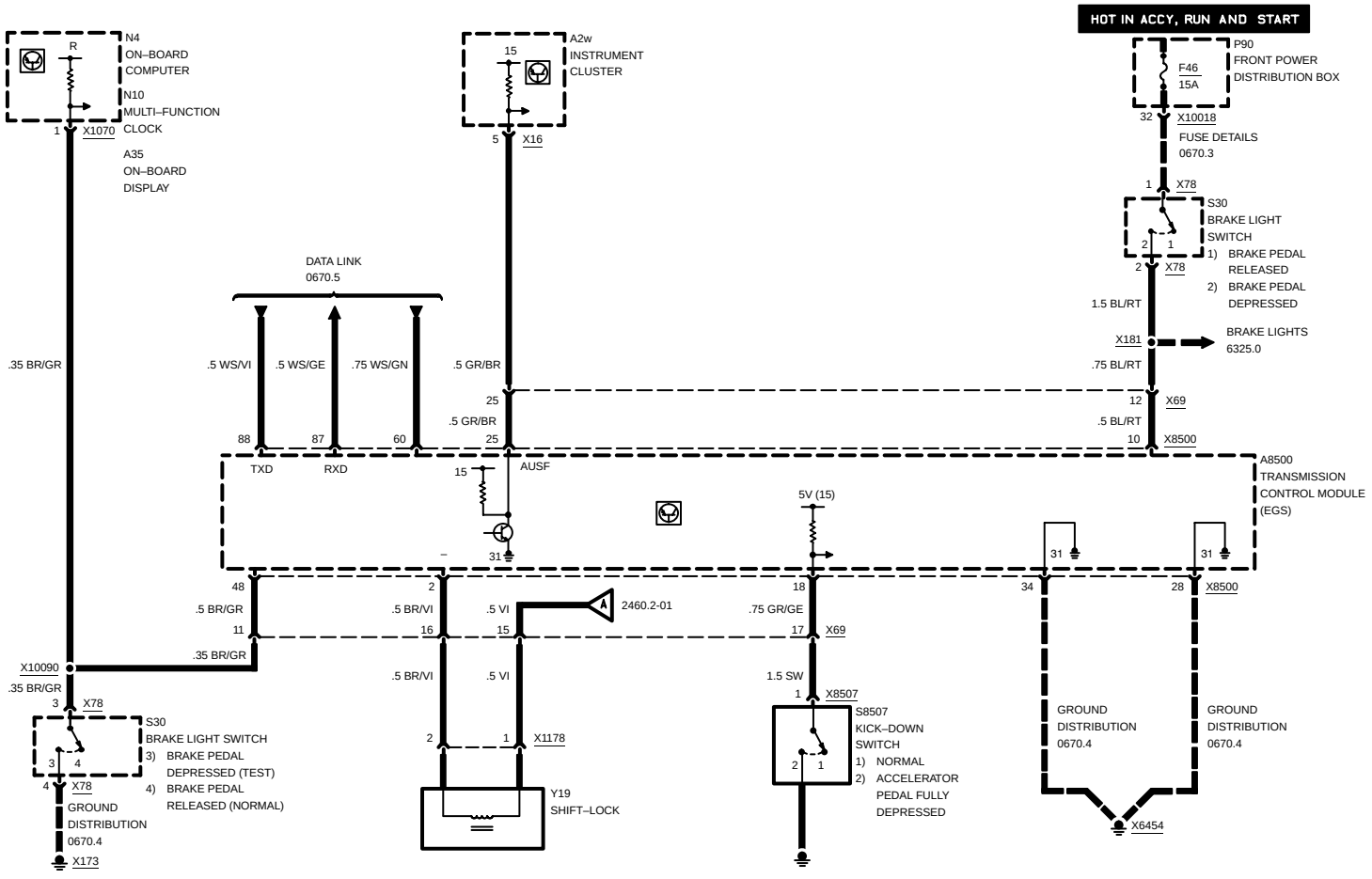
SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH



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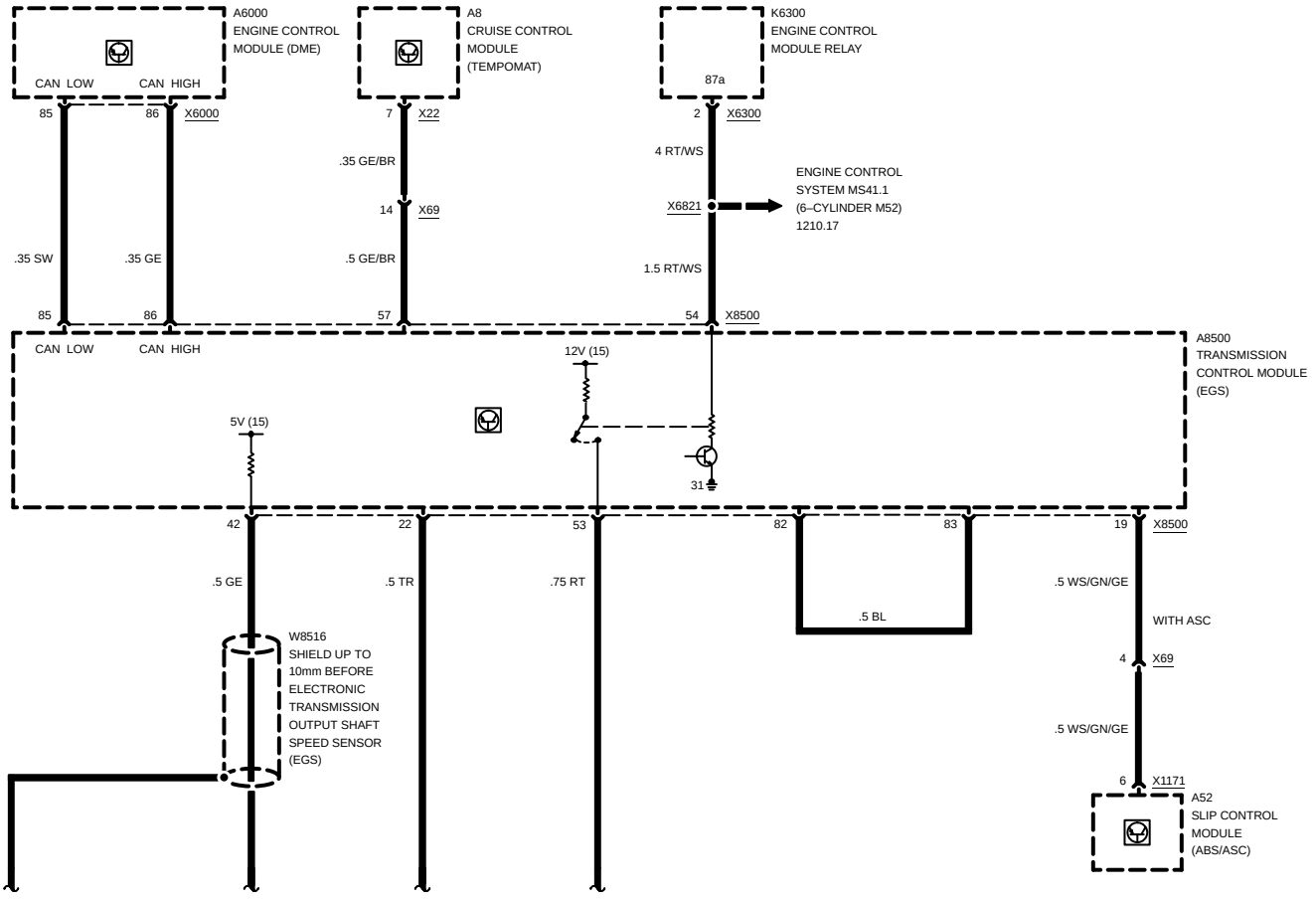
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R) 323i, 328i

SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH

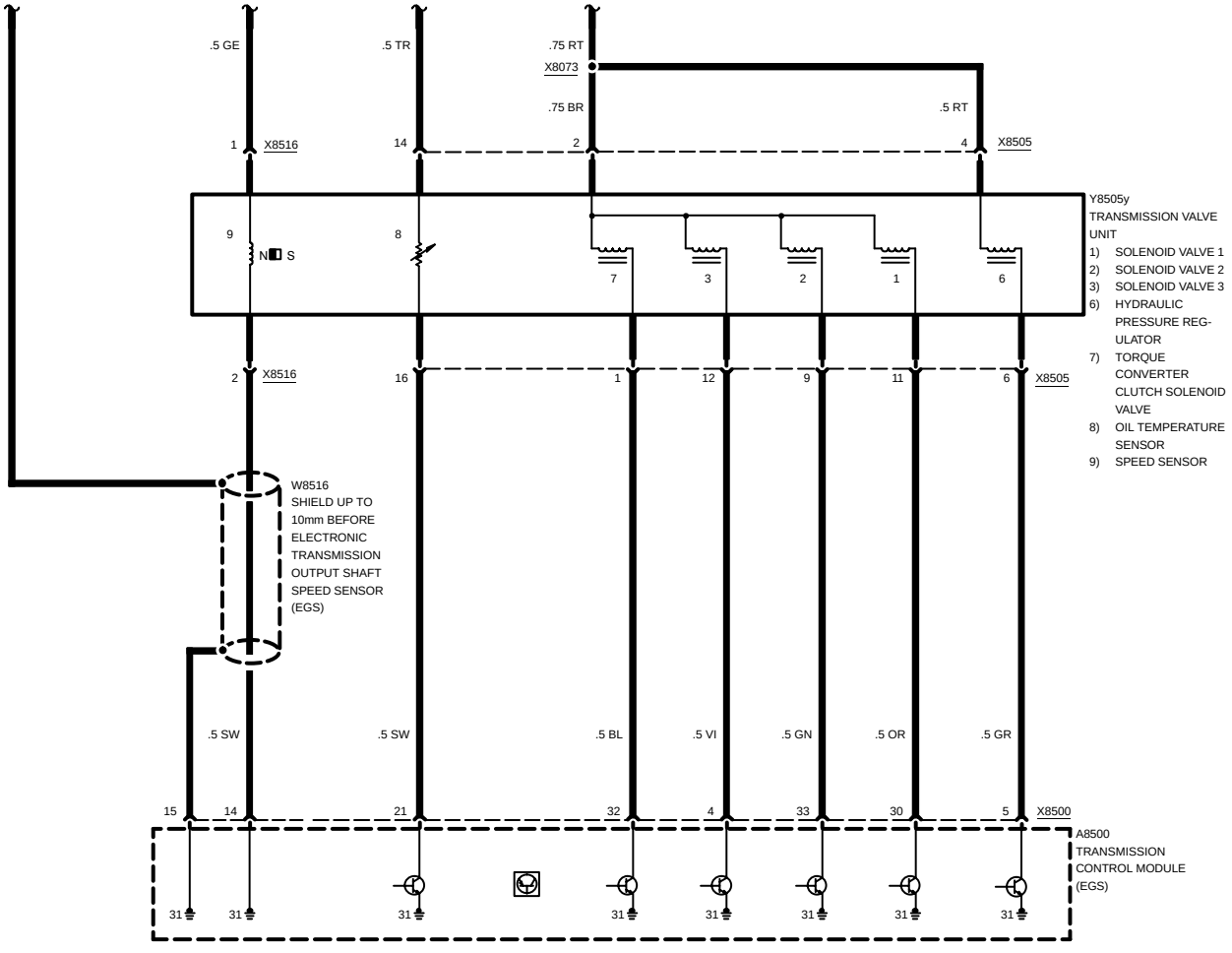


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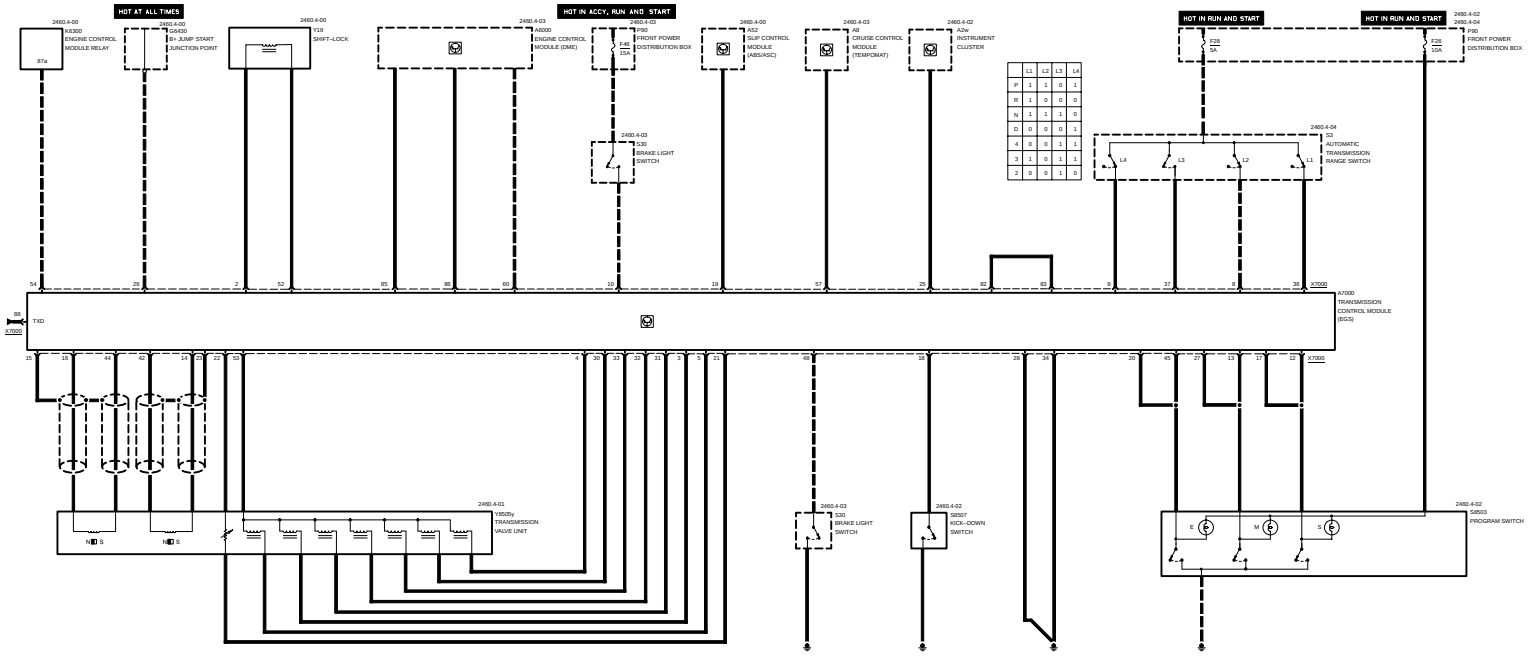
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R) 323i, 328i



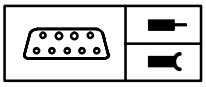
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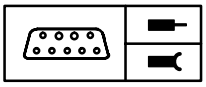
Pin Assignments

X7000

Pin	Type	Description/Function	Connection
1		Not used	
2	A	Shift-lock	Shift-lock
3	A	Solenoid valve 5	Transmission valve unit
4	A	Torque converter clutch solenoid valve	Transmission valve unit
5	A	Hydraulic pressure regulator	Transmission valve unit
6		Not used	
7		Not used	
8		Gear range signal L2	Automatic transmission range switch
9		Gear range signal L4	Automatic transmission range switch
10	E	Brake pedal position	Brake light switch
11		Not used	
12	E	S-program indication	Program switch
13	E	M-program indication	Program switch
14	E	Speed sensor	Transmission valve unit
15	M	Shield speed sensor	Shield
16	A	Speed sensor n-turbine	Transmission valve unit
17	E	S-program	Program switch
18	E	Kick-down signal	Kick-down switch
19	E	ASC signal	ASC module
20	E	E-program	Program switch
21	M	Ground oil temperature sensor	Transmission valve unit
22	E	Oil temperature sensor	Transmission valve unit
23	M	Shield speed sensor	Shield
24		Not used	
25	A	Fault indicator signal	Instrument cluster
26	E	Battery voltage	Jump start junction point
27	E	M-program	Program switch
28	M	Ground, electronics	Ground point
29		Not used	
30	A	Solenoid valve 1	Transmission valve unit

E = Input, A = Output, M = Ground

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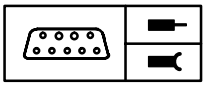


Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Solenoid valve 4	Transmission valve unit
32	A	Solenoid valve 3	Transmission valve unit
33	A	Solenoid valve 2	Transmission valve unit
34	M	Ground	Ground point
35		Not used	
36	E	Gear range signal L1	Automatic transmission range switch
37	E	Gear range signal L3	Automatic transmission range switch
38		Not used	
39		Not used	
40		Not used	
41		Not used	
42	A	Speed sensor n ab (+)	Transmission valve unit
43		Not used	
44	E	Speed sensor n-turbine	Transmission valve unit
45	E	E-program indication	Program switch
46		Not used	
47		Not used	
48	E	Brake switch test signal	Brake light switch
49		Not used	
50		Not used	
51		Not used	
52	A	Voltage supply	Shift-lock
53	A	Voltage supply for solenoid valves	Transmission valve unit
54	E	Voltage supply	DME relay
55		Not used	
56		Not used	
57	E	Cruise control signal	Cruise control module
58		Not used	
59		Not used	
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	

E = Input, A = Output, M = Ground

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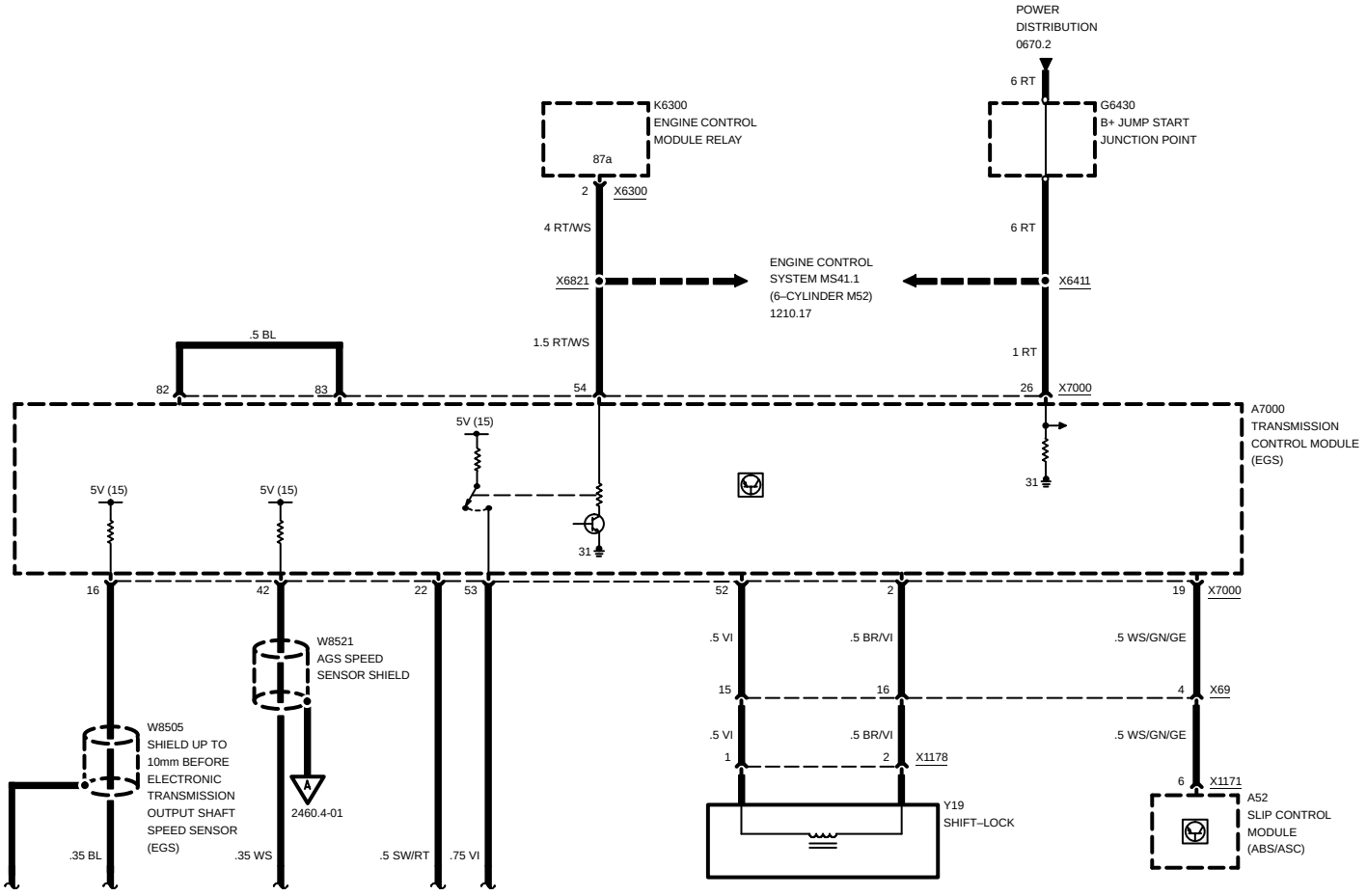
Pin Assignments

Pin	Type	Description/Function	Connection
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82	E/A	Jumper plug	
83	E/A	Jumper plug	
84		Not used	
85	E/A	CAN-LOW	Engine control module
86	E/A	CAN-HIGH	Engine control module
87		Not used	
88	E/A	TxD diagnostic data link	Data link connector

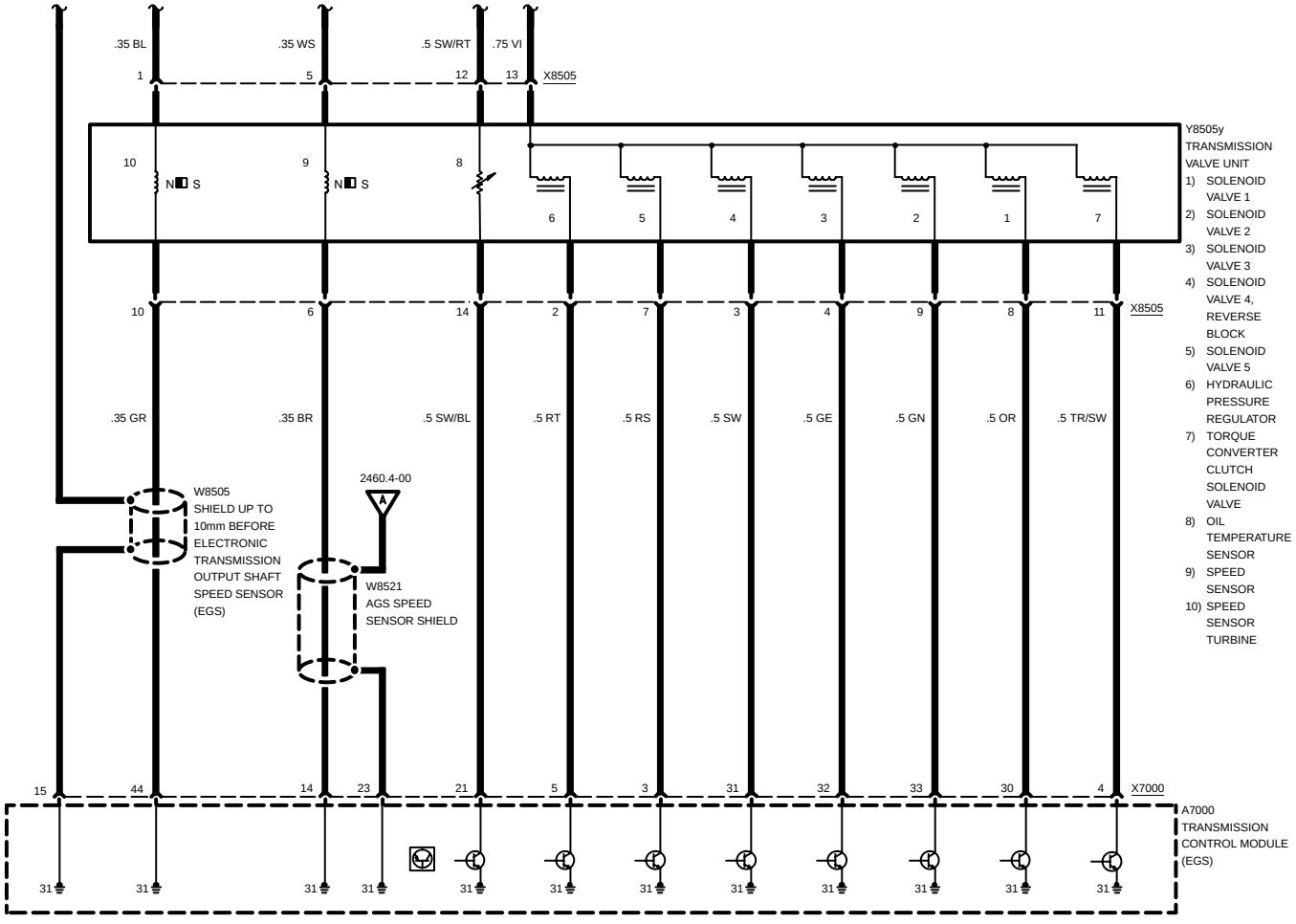
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ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

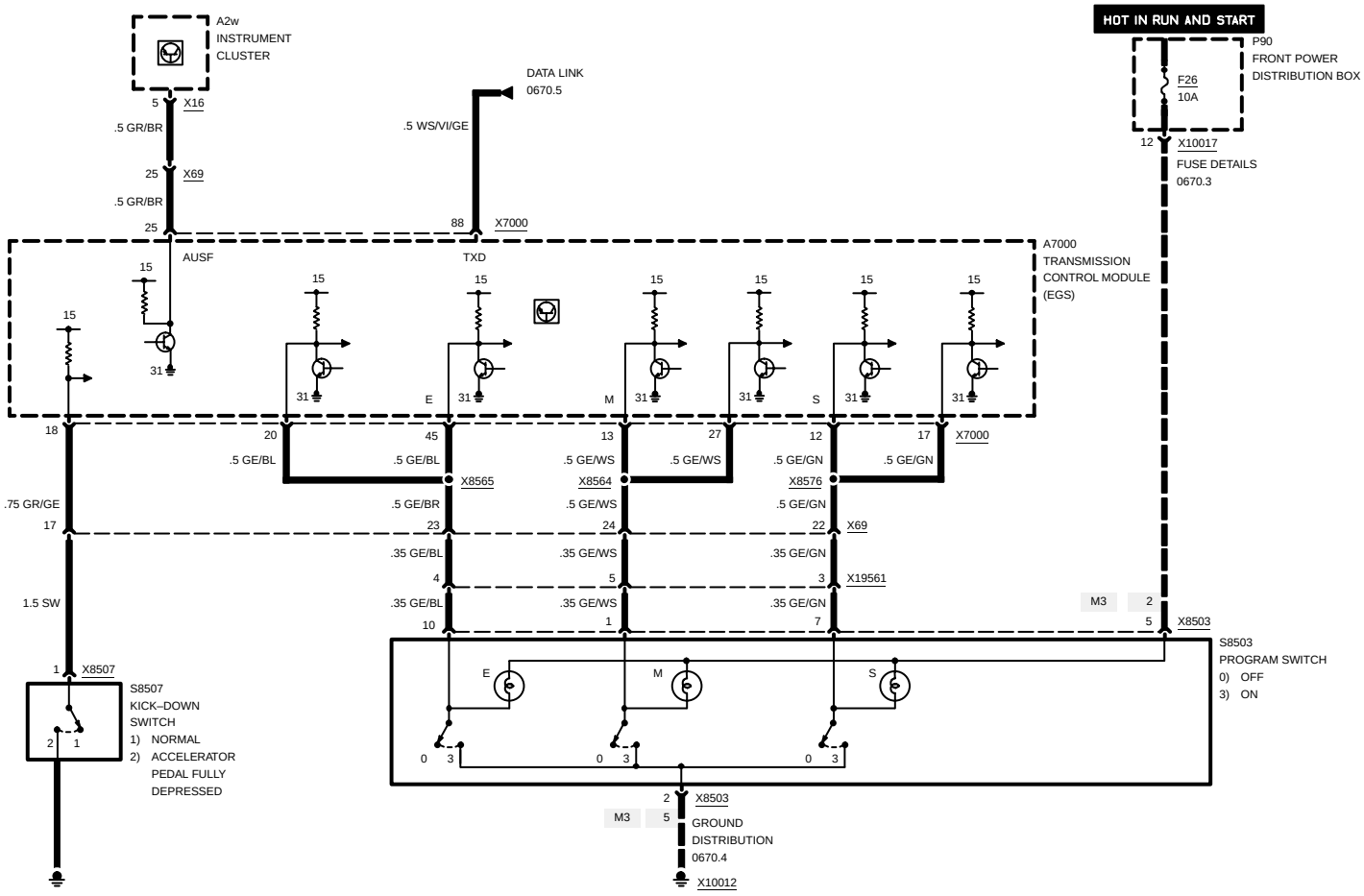


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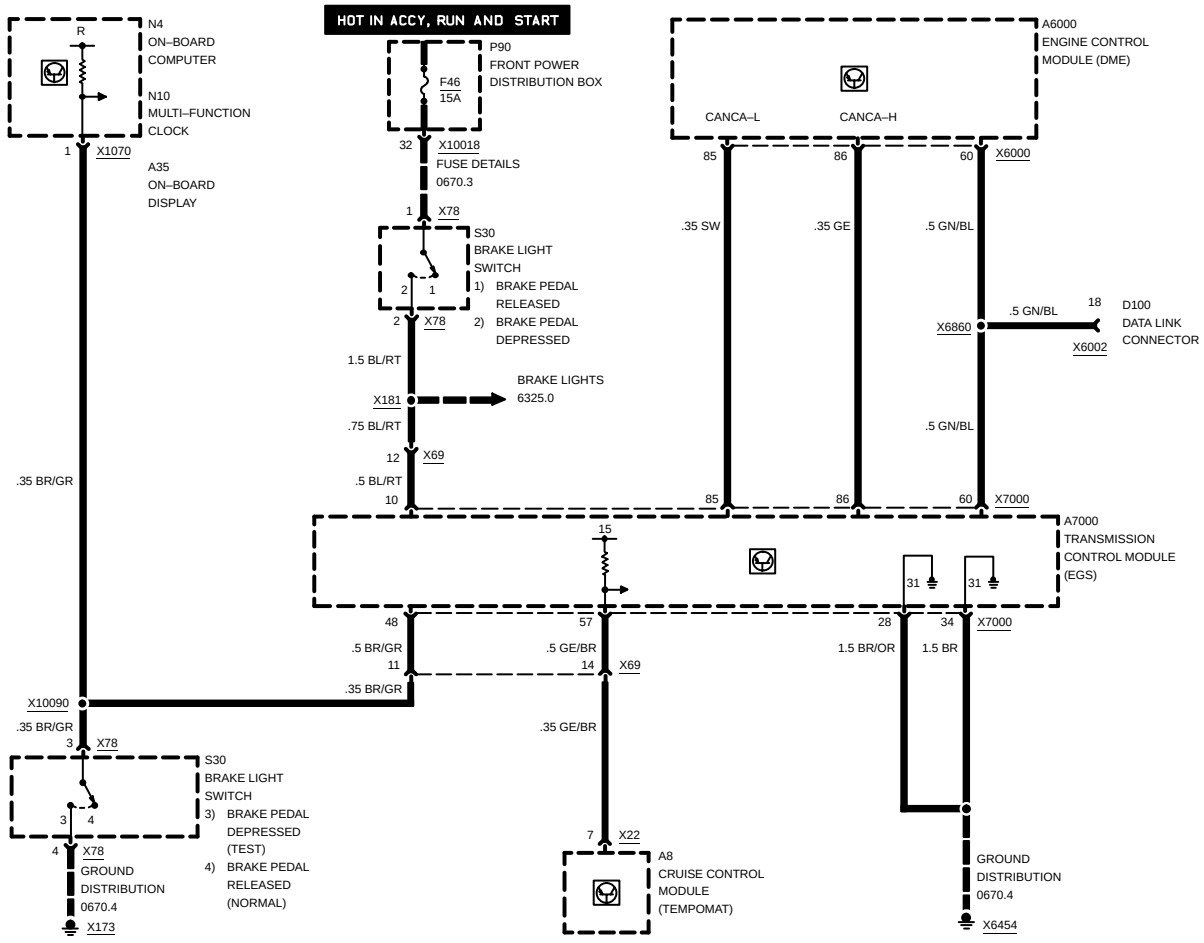
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ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



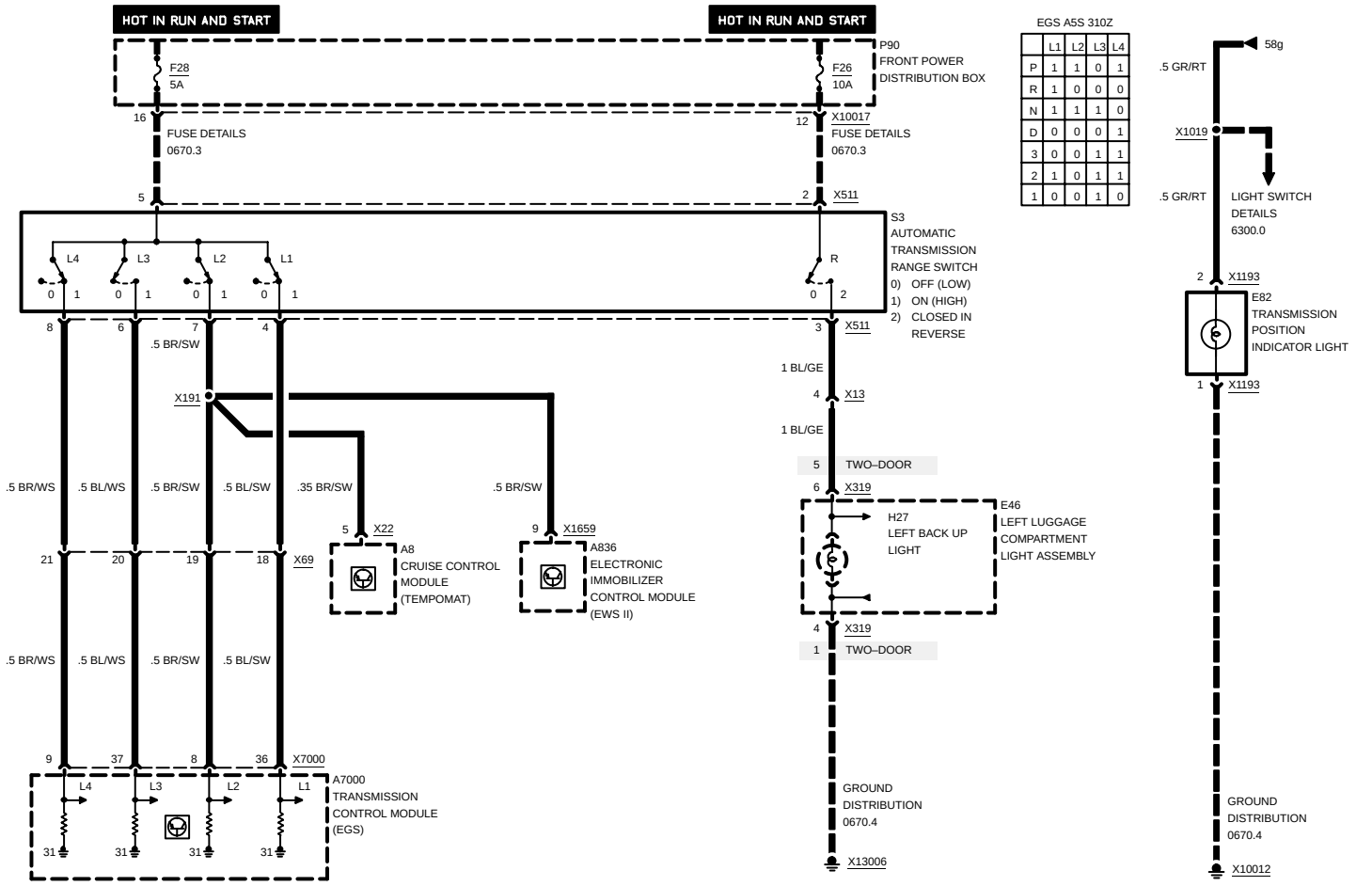
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ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



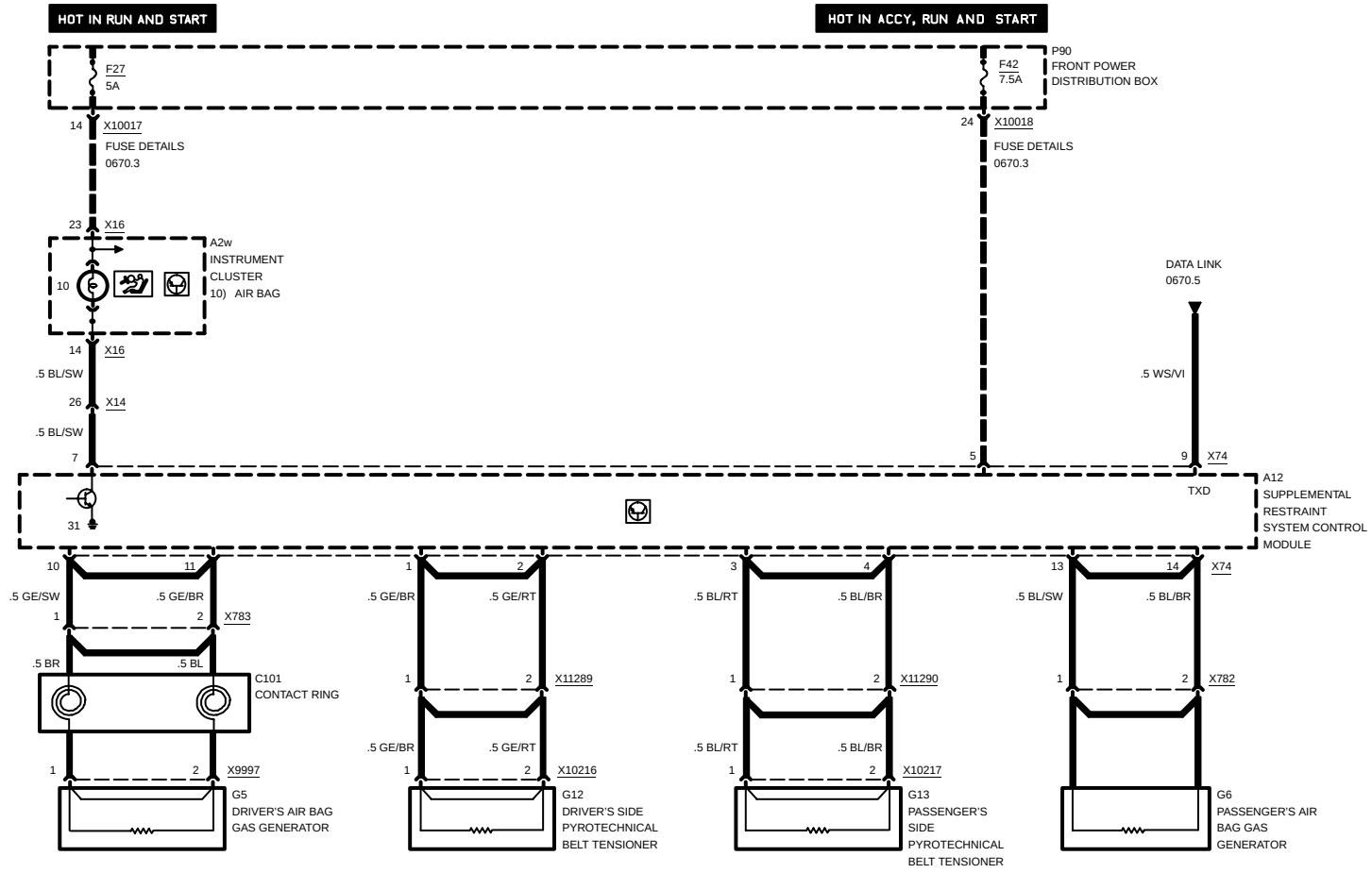
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ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



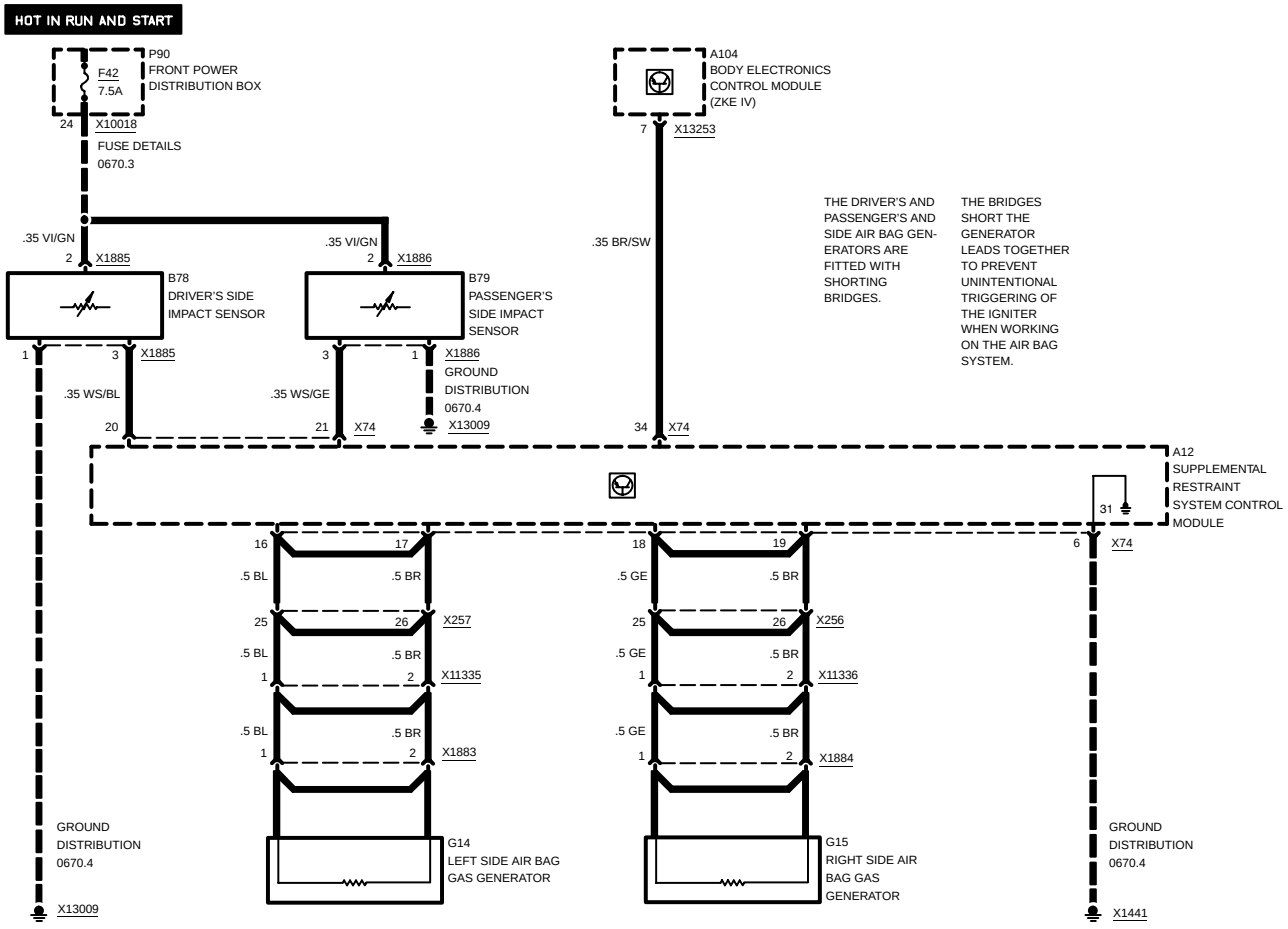
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3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



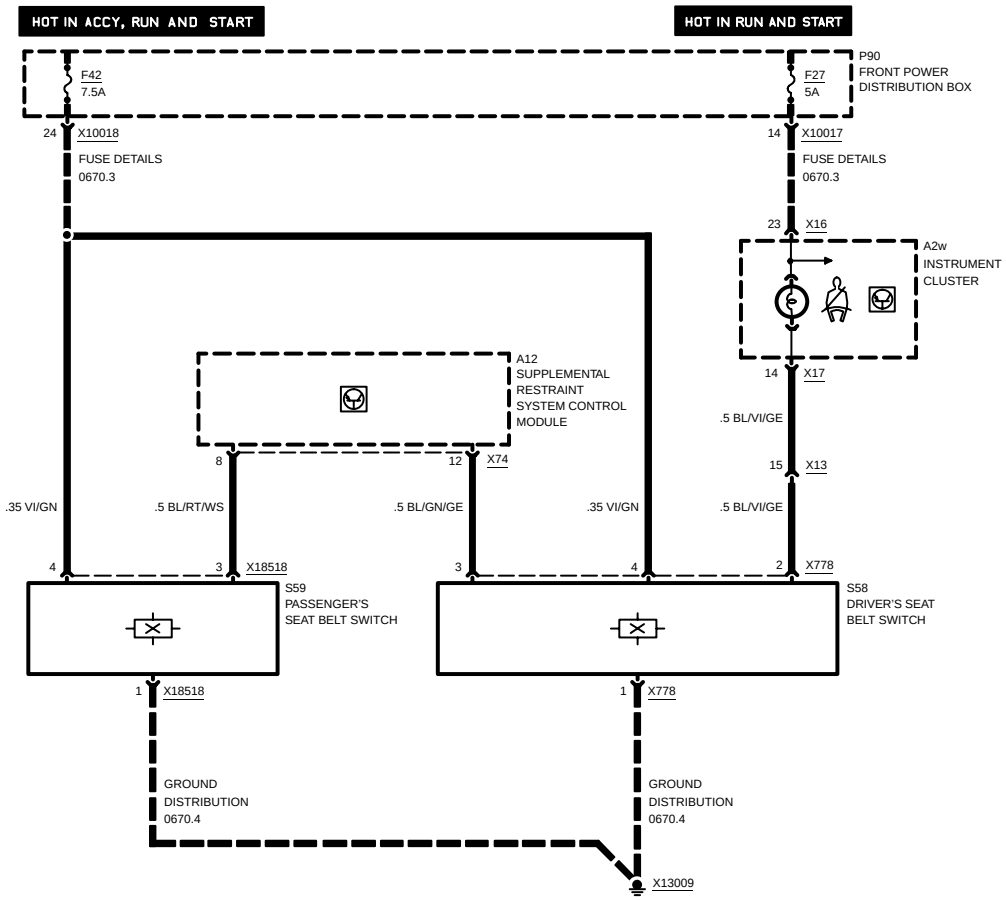
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SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

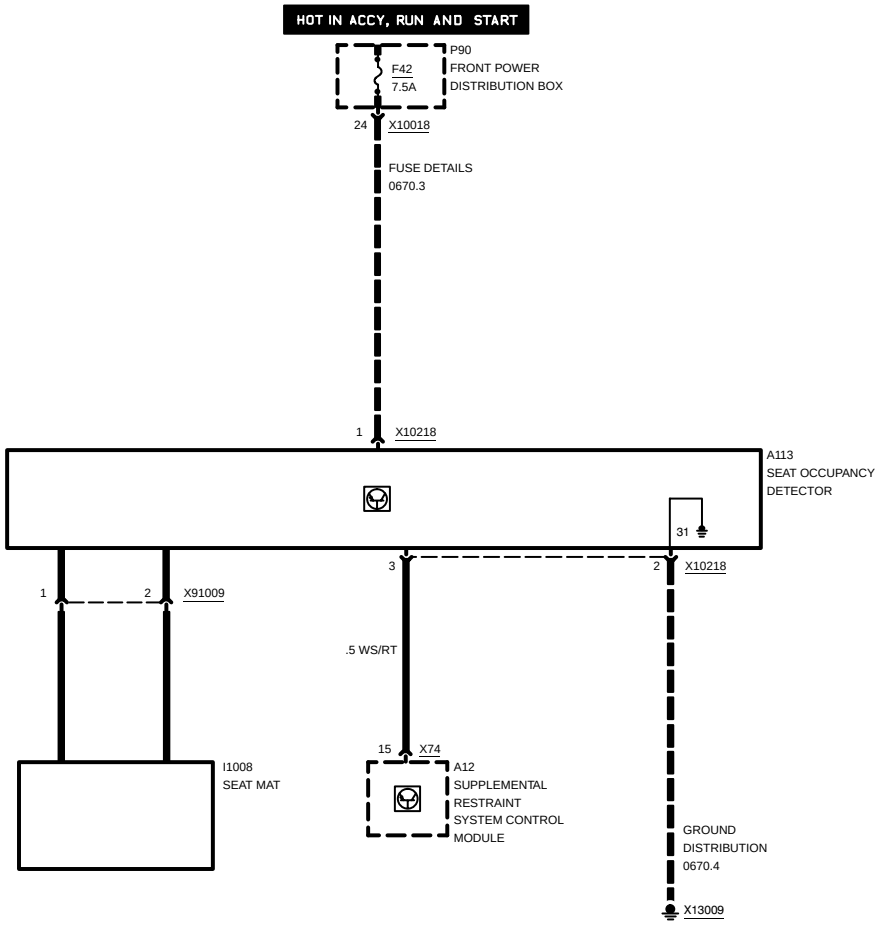


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SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

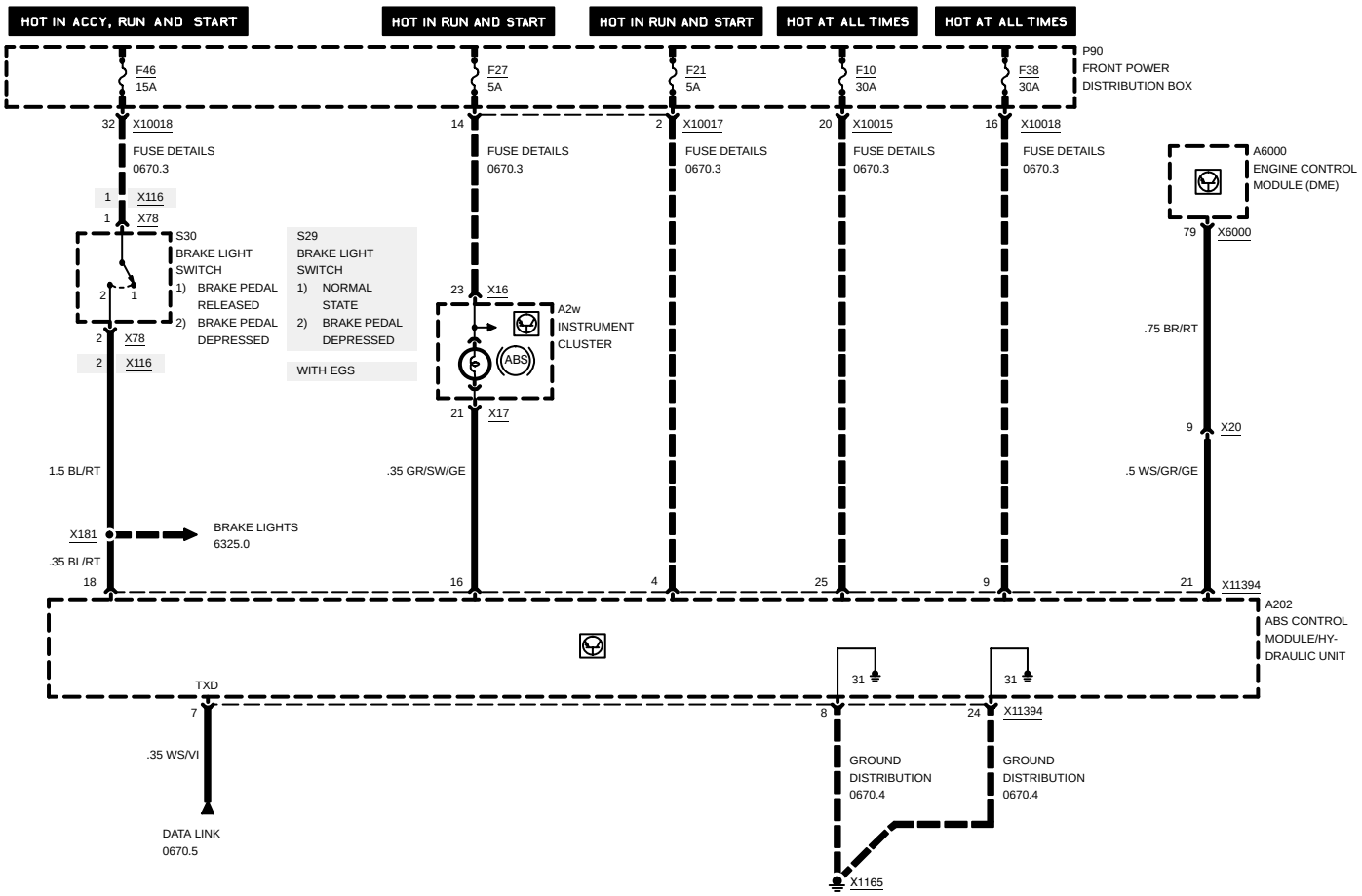


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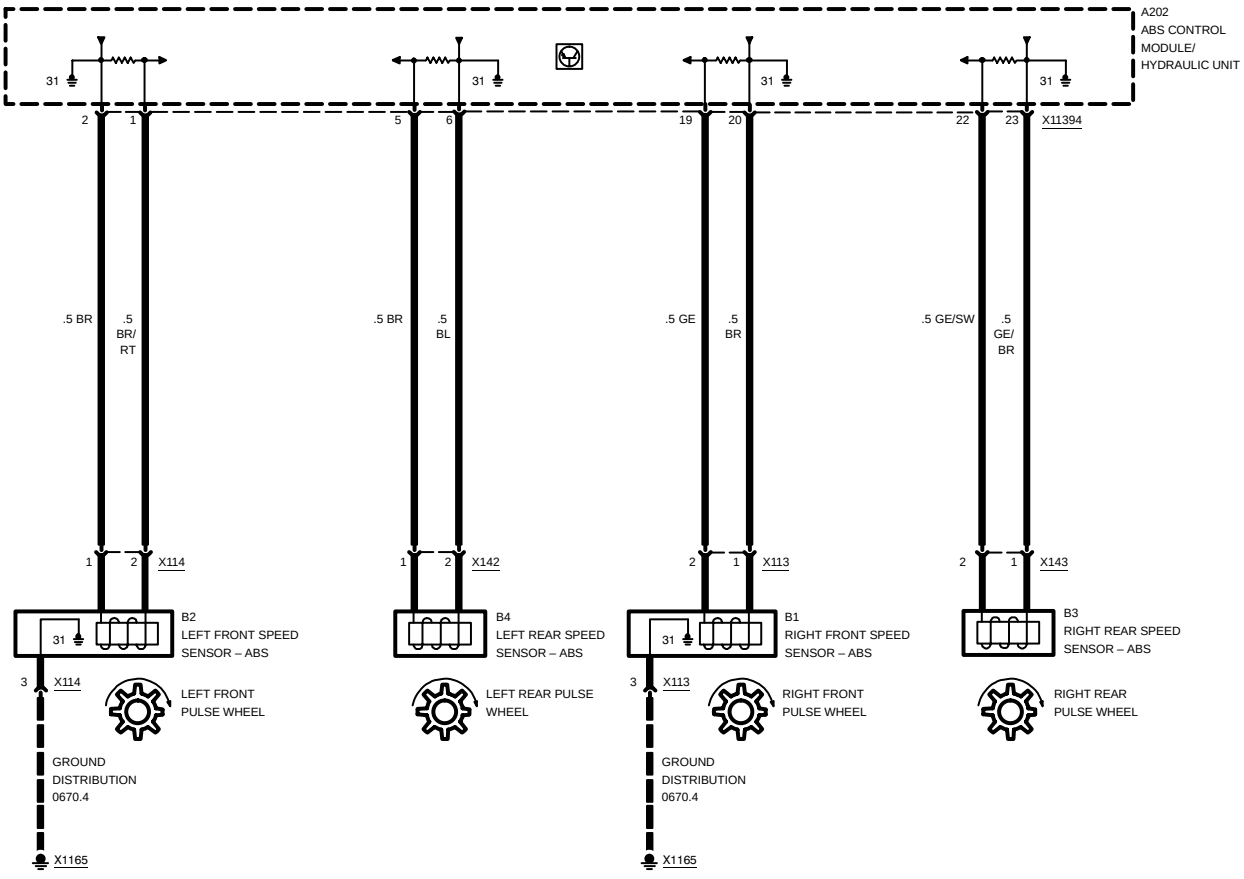
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3450.0 SLIP CONTROL (ABS)



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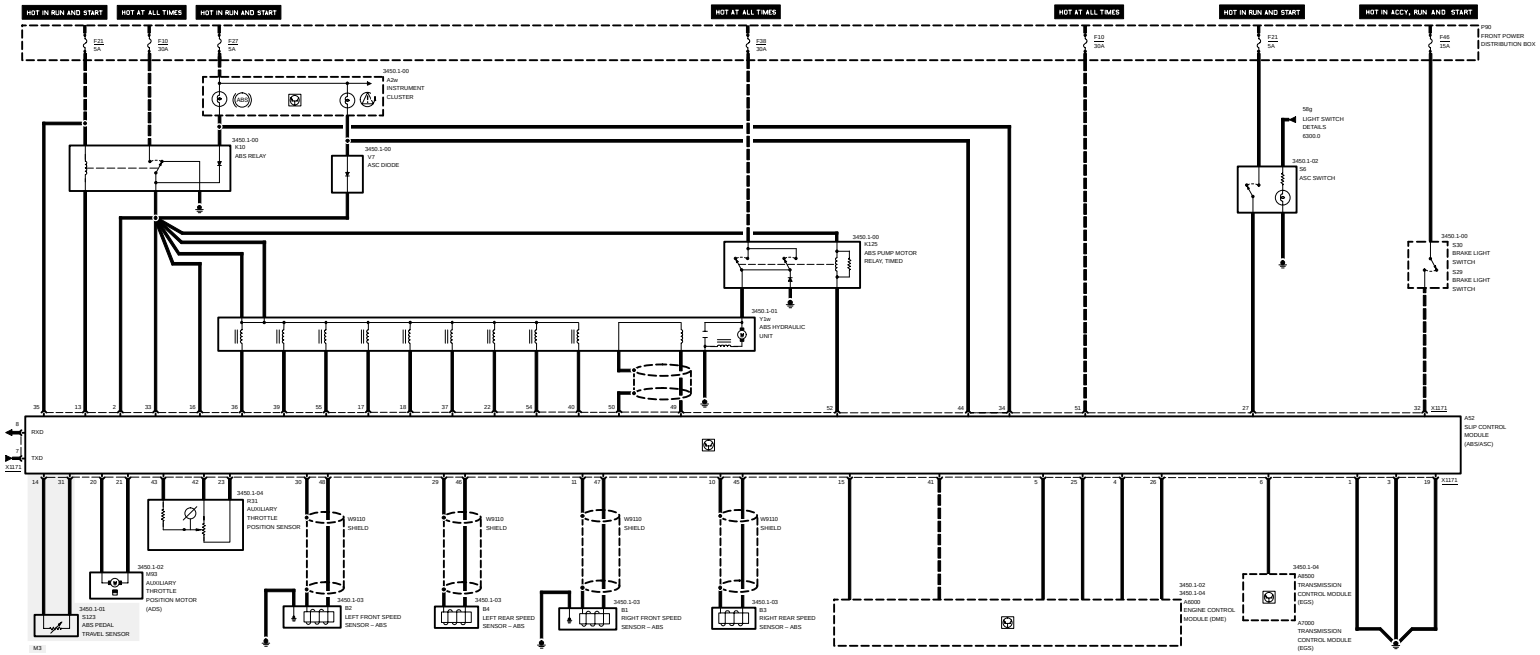
SLIP CONTROL (ABS)



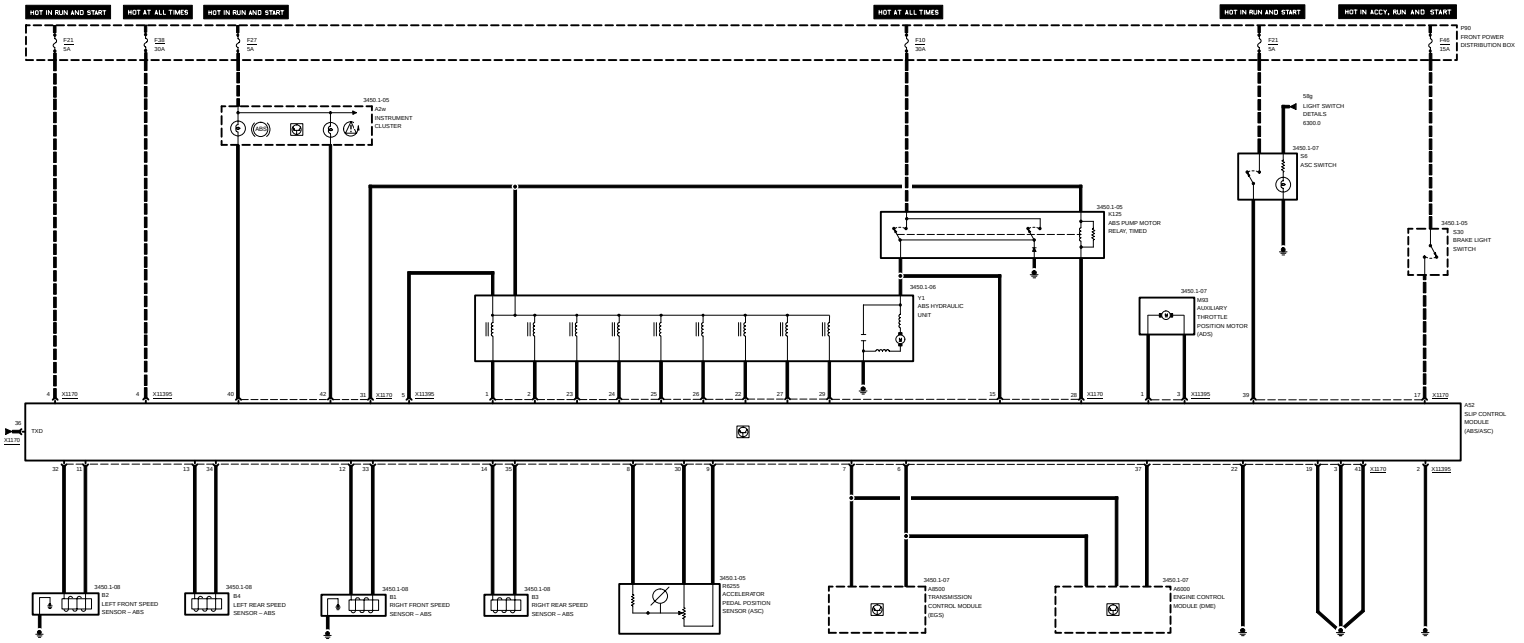
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3450.1 SLIP CONTROL (ABS/ASC)

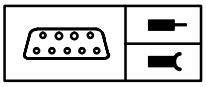
323i, 328i, M3



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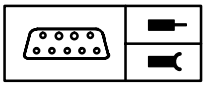
Pin Assignments (323i, 328i, M3)

X1171

Pin	Type	Description/Function	Connection
1	M	Ground	Ground
2	E	Battery voltage	ABS relay
3	M	Ground, module	Ground
4	E	Ignition cut-off signal	DME module
5	A	EML signal	DME module
6	A	Transmission influence	Transmission control module
7	E/A	TxD signal	Diagnostic link
8	A	RxD signal	Diagnostic link
9		Not used	
10	A	Sensor ground	Right rear speed sensor (ABS)
11	A	Sensor ground	Right front speed sensor (ABS)
12		Not used	
13	A	ABS power protection relay	ABS power protection relay
14	E	Pedal travel sensor	Pedal travel sensor
15	A	Right rear speed signal	DME module
16	E	Plus supply	ABS relay
17	A	Solenoid valve signal left rear inlet	ABS hydraulic unit
18	A	Solenoid valve signal left rear outlet	ABS hydraulic unit
19	M	Ground	Ground
20	A	ADS step motor (–)	ADS step motor
21	A	ADS step motor (+)	ADS step motor
22	A	Solenoid valve signal right front inlet	ABS hydraulic unit
23	E	ASC throttle flap potentiometer (–)	ASC throttle flap motor potentiometer
24		Not used	
25	E	Signal idle speed	DME module
26	A	Throttle flap position	DME module
27	E	ASC switch signal	ASC witch
28		Not used	
29	A	Sensor ground	Left rear speed sensor (ABS)
30	A	Sensor ground	Left front speed sensor (ABS)

E = Input, A = Output, M = Ground

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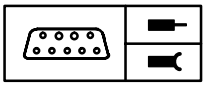


Pin Assignments (323i, 328i, M3)

Pin	Type	Description/Function	Connection
31	E	Pedal travel sensor	Pedal travel sensor
32	E	Brake signal	Brake light switch
33	E	Plus supply	ABS relay
34	A	ABS lamp control	Instrument cluster
35	E	Ignition signal	Fuse 21
36	A	Separator valve	ABS hydraulic unit
37	A	Solenoid valve signal right front outlet	ABS hydraulic unit
38		Not used	
39	A	Right rear inlet valve	ABS hydraulic unit
40	A	Solenoid valve signal left front inlet	ABS hydraulic unit
41	E	Speed signal	DME module
42	E	ASC throttle flap potentiometer (+)	ASC throttle flap potentiometer
43	E	ASC throttle flap signal	ASC throttle flap potentiometer
44	A	ASC lamp control	Instrument cluster
45	E	Right rear speed sensor signal	Right rear speed sensor
46	E	Left rear speed sensor signal	Left rear speed sensor
47	E	Right front speed sensor signal	Right front speed sensor
48	E	Left front speed sensor signal	Left front speed sensor
49	E	Pump motor sensor signal	ABS hydraulic unit
50	E	Shield pump motor sensor	ABS hydraulic unit
51	E	Plus supply	Front power distribution box
52	A	ABS pump motor relay	ABS pump motor relay
53		Not used	
54	A	Solenoid valve signal left front outlet	ABS hydraulic unit
55	A	Right rear outlet valve	ABS hydraulic unit

E = Input, A = Output, M = Ground

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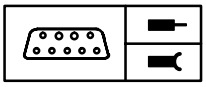
Pin Assignments (318is)

X1170

Pin	Type	Description/Function	Connection
56	A	Right rear inlet valve	ABS hydraulic unit
57	A	Separator valve	ABS hydraulic unit
58	M	Ground	Ground point
59	E	Voltage supply	Fuse 21
60		Not used	
61	E/A	Can Low	DME/EGS module
62	E/A	Can High	DME/EGS module
63	E	ASC throttle flap signal	Accelerator pedal position sensor
64	E	ASC throttle flap potentiometer (–)	Accelerator pedal position sensor
65		Not used	
66	A	Sensor ground	Left front speed sensor (ABS)
67	A	Sensor ground	Right front speed sensor (ABS)
68	A	Sensor ground	Left rear speed sensor (ABS)
69	A	Sensor ground	Right rear speed sensor (ABS)
70	E	Pump motor signal	ABS pump motor relay
71		Not used	
72	E	Brake pedal position	Brake light switch
73		Not used	
74	M	Ground	Ground point
75		Not used	
76		Not used	
77	A	Left front outlet valve	ABS hydraulic unit
78	A	Right rear outlet valve	ABS hydraulic unit
79	A	Left rear inlet valve	ABS hydraulic unit
80	A	Left rear outlet valve	ABS hydraulic unit
81	A	Right front outlet valve	ABS hydraulic unit
82	A	Right front inlet valve	ABS hydraulic unit
83	A	Activate relay	ABS pump motor relay
84	A	Left front inlet valve	ABS hydraulic unit
85	E	ASC throttle flap potentiometer (+)	Accelerator pedal position sensor

E = Input, A = Output, M = Ground

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Pin Assignments (318is)

Pin	Type	Description/Function	Connection
86	A	ABS signal	ABS pump motor relay/Hydraulic unit
87	E	Speed signal	Left front speed sensor (ABS)
88	E	Speed signal	Right front speed sensor (ABS)
89	E	Speed signal	Left rear speed sensor (ABS)
90	E	Speed signal	Right rear speed sensor (ABS)
91	E/A	TxD diagnostic data link	Data link connector
92	A	Right rear speed signal	DME module
93		Not used	
94	E	ASC signal	ASC switch
95	E	Slip control system warning lamp	Slip control module (ASC)
96	M	Ground	Ground point
97	A	ASC signal	Instrument cluster

X11395

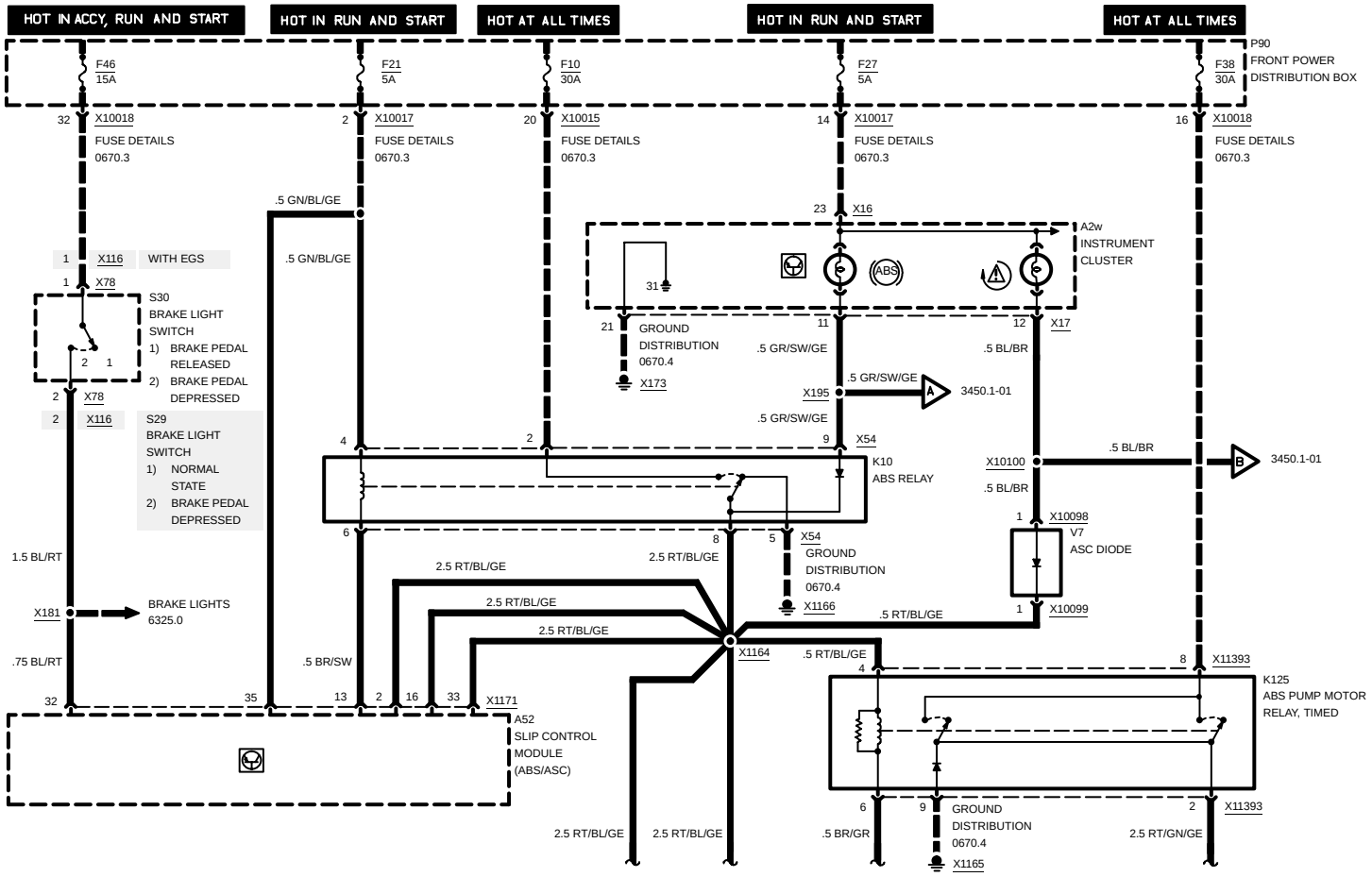
Pin	Type	Description/Function	Connection
1	A	ADS step motor (+)	ADS step motor
2	M	Ground	Ground point
3	A	ADS step motor (–)	ADS step motor
4	E	Voltage supply	Fuse 38
5	A	ABS signal	ABS hydraulic unit

E = Input, A = Output, M = Ground

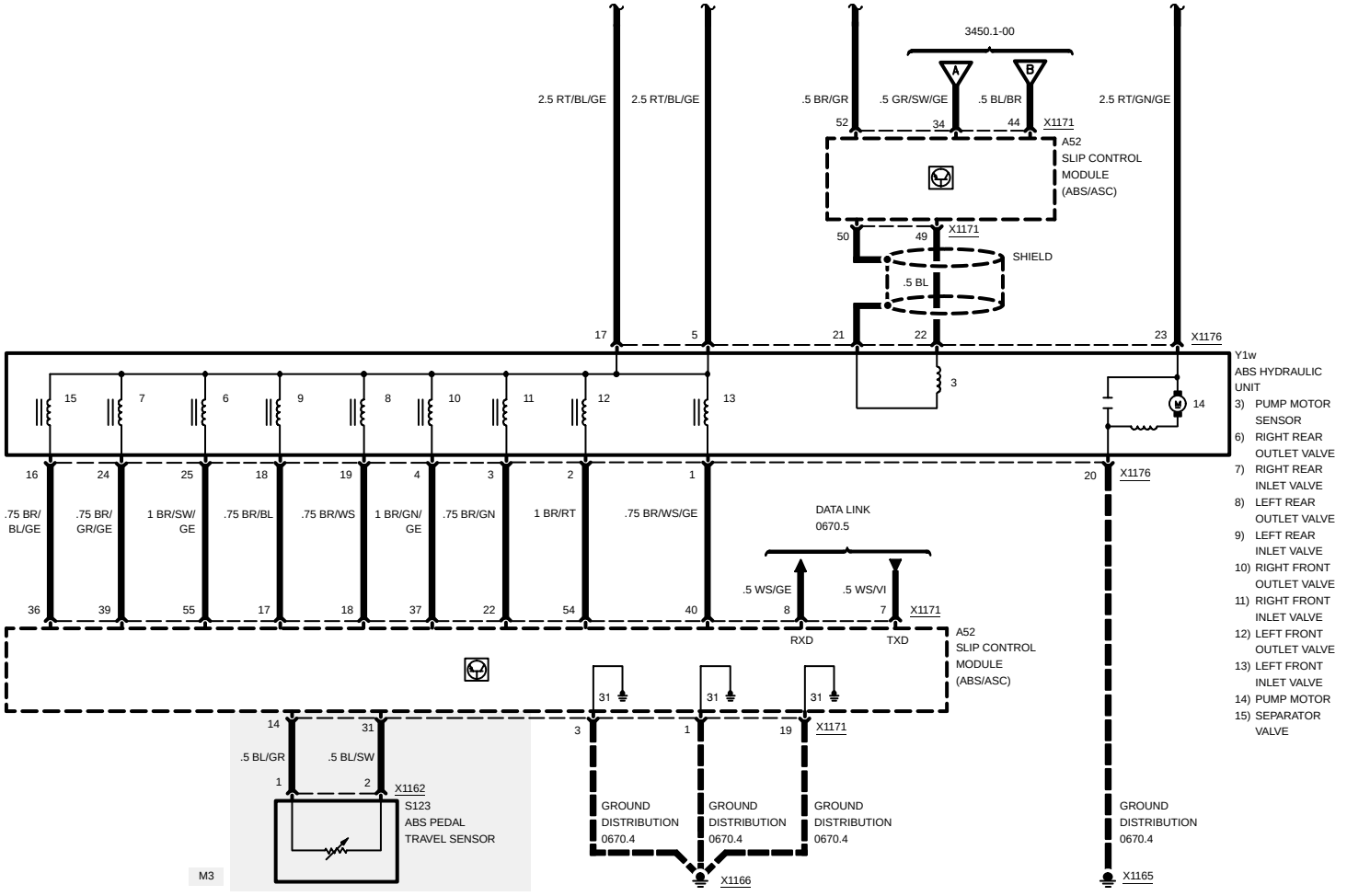
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SLIP CONTROL (ABS/ASC)

323i, 328i, M3



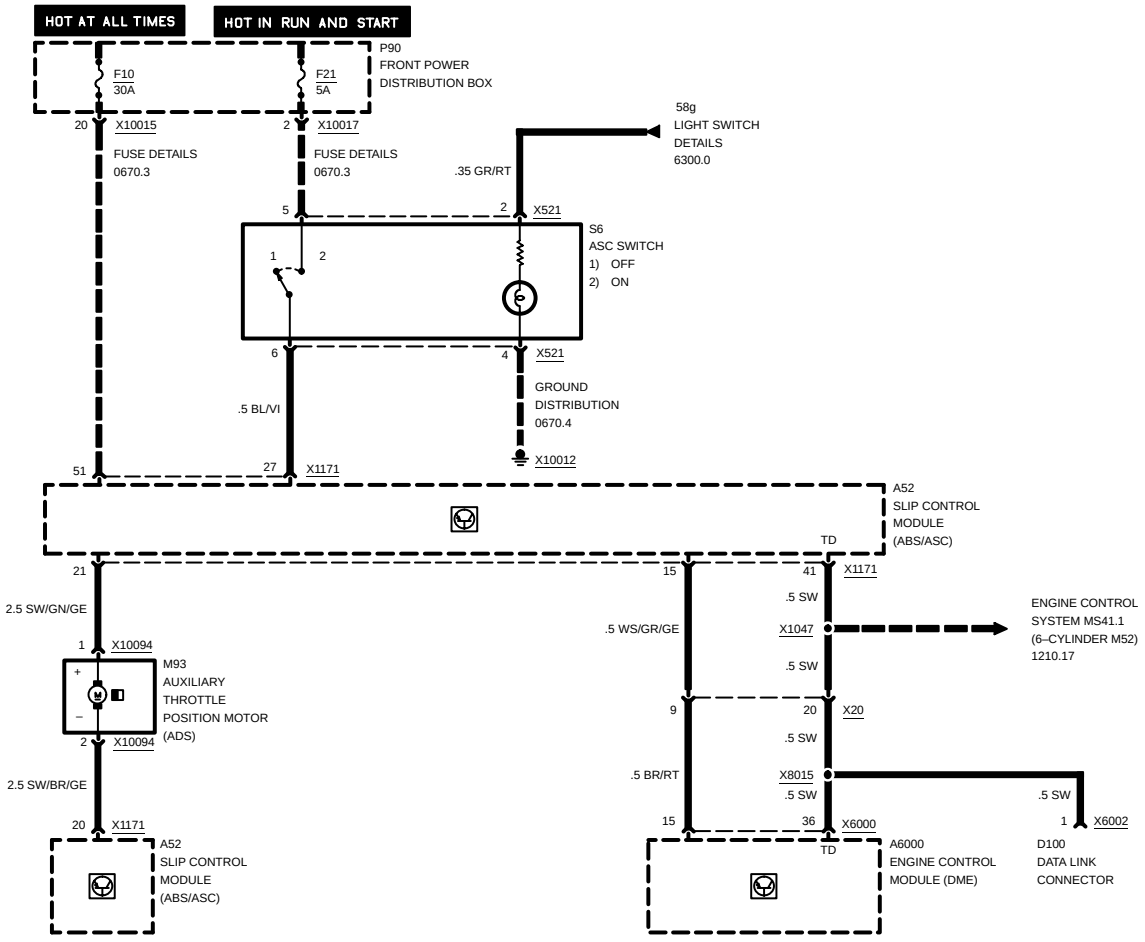
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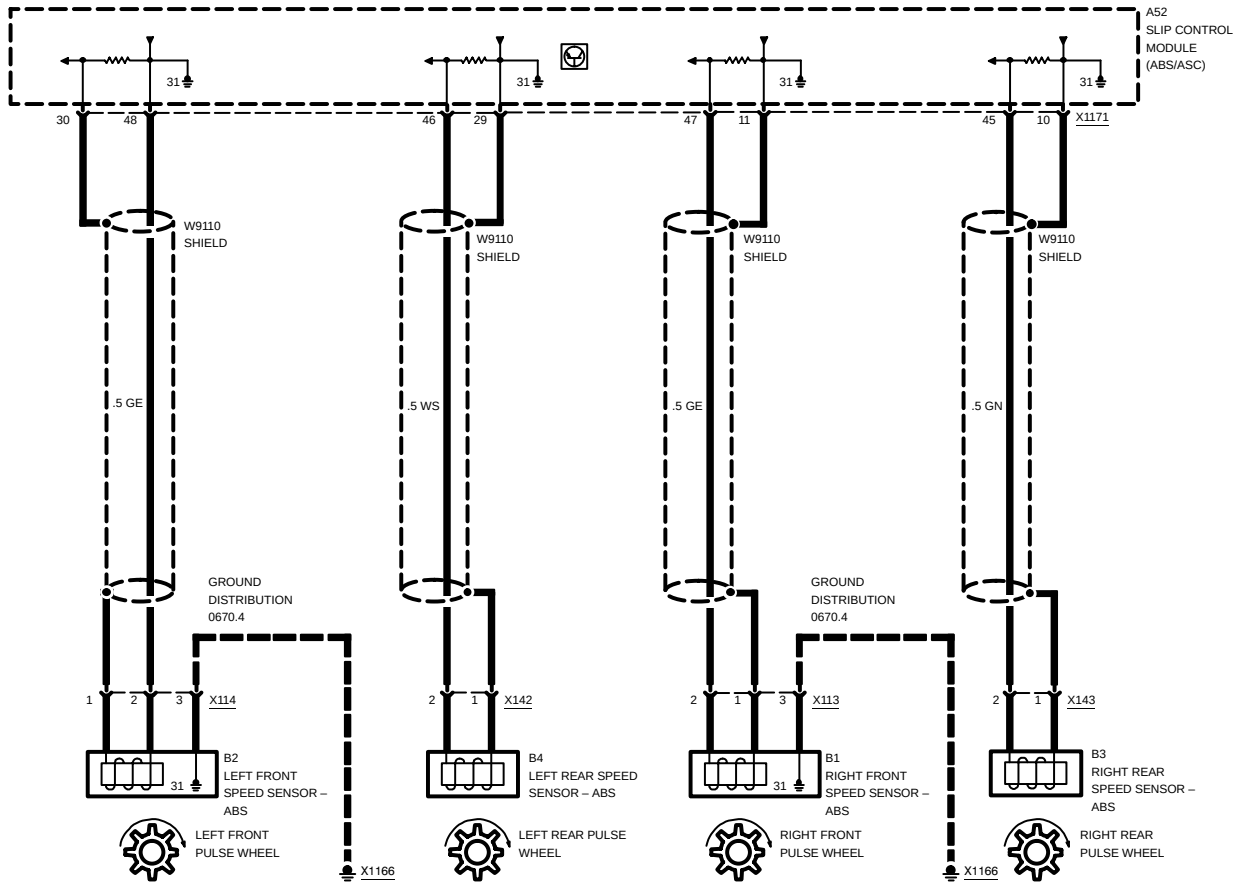
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SLIP CONTROL (ABS/ASC)

323i, 328i, M3



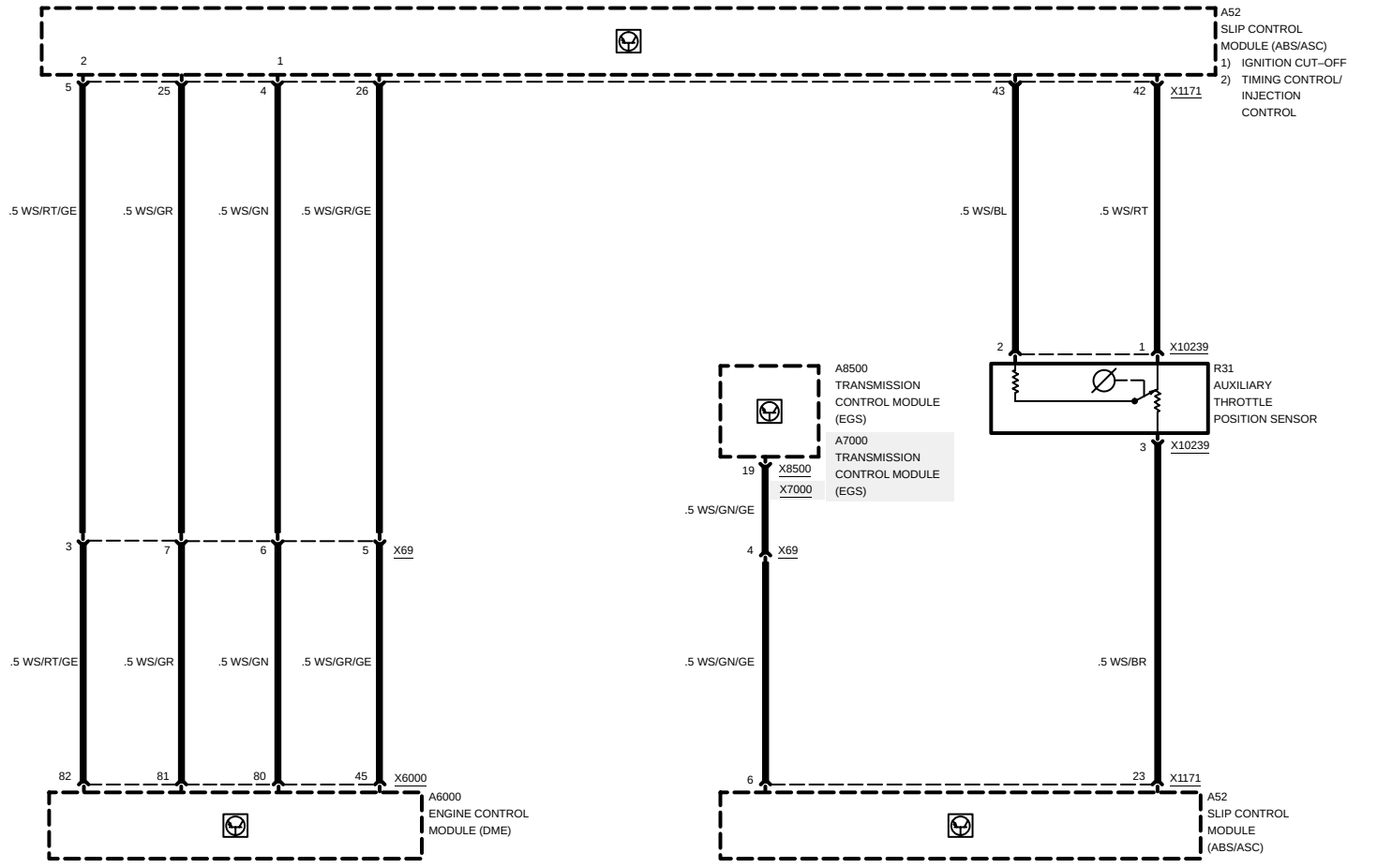
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SLIP CONTROL (ABS/ASC)

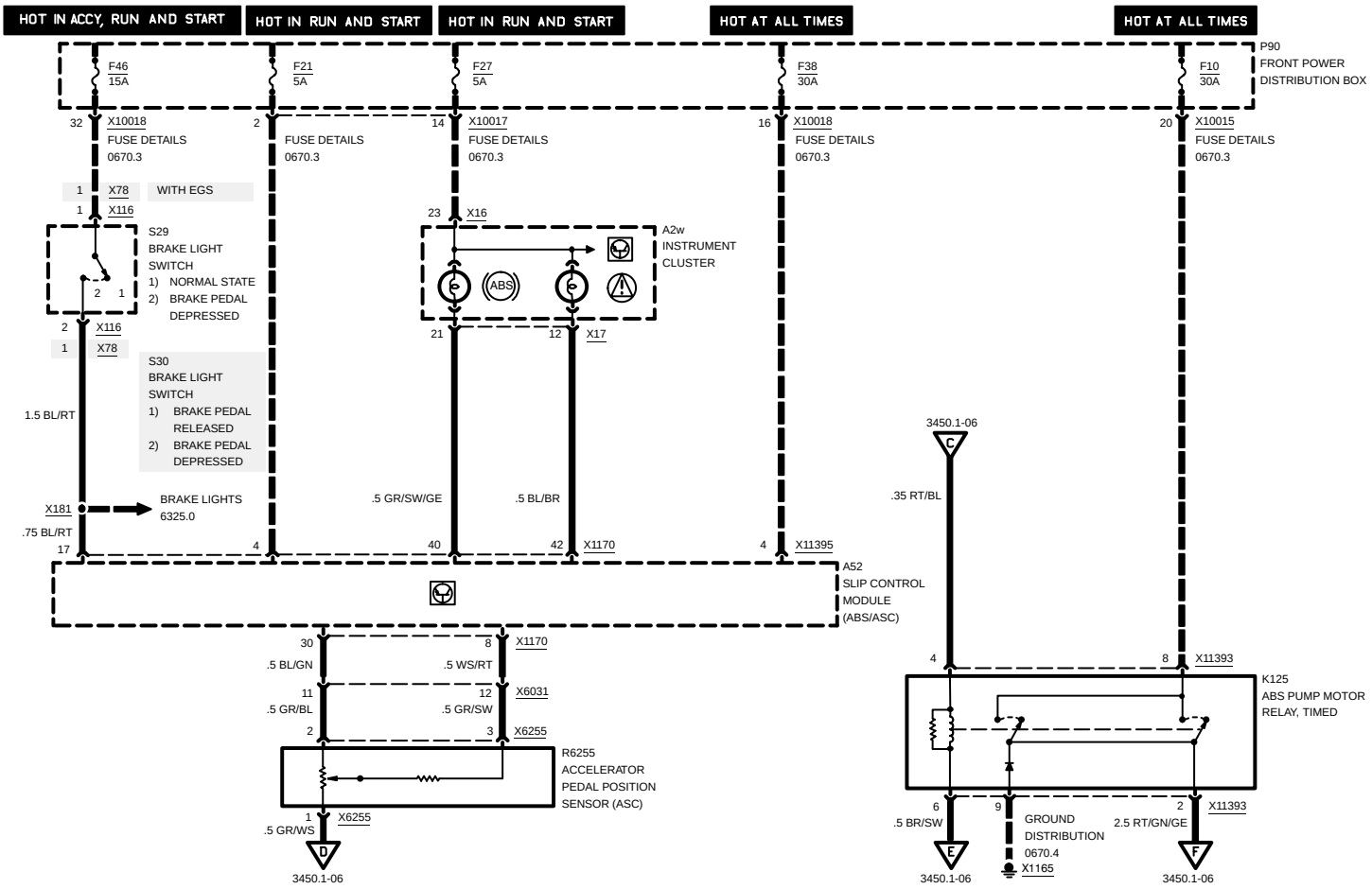
323i, 328i, M3



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SLIP CONTROL (ABS/ASC)

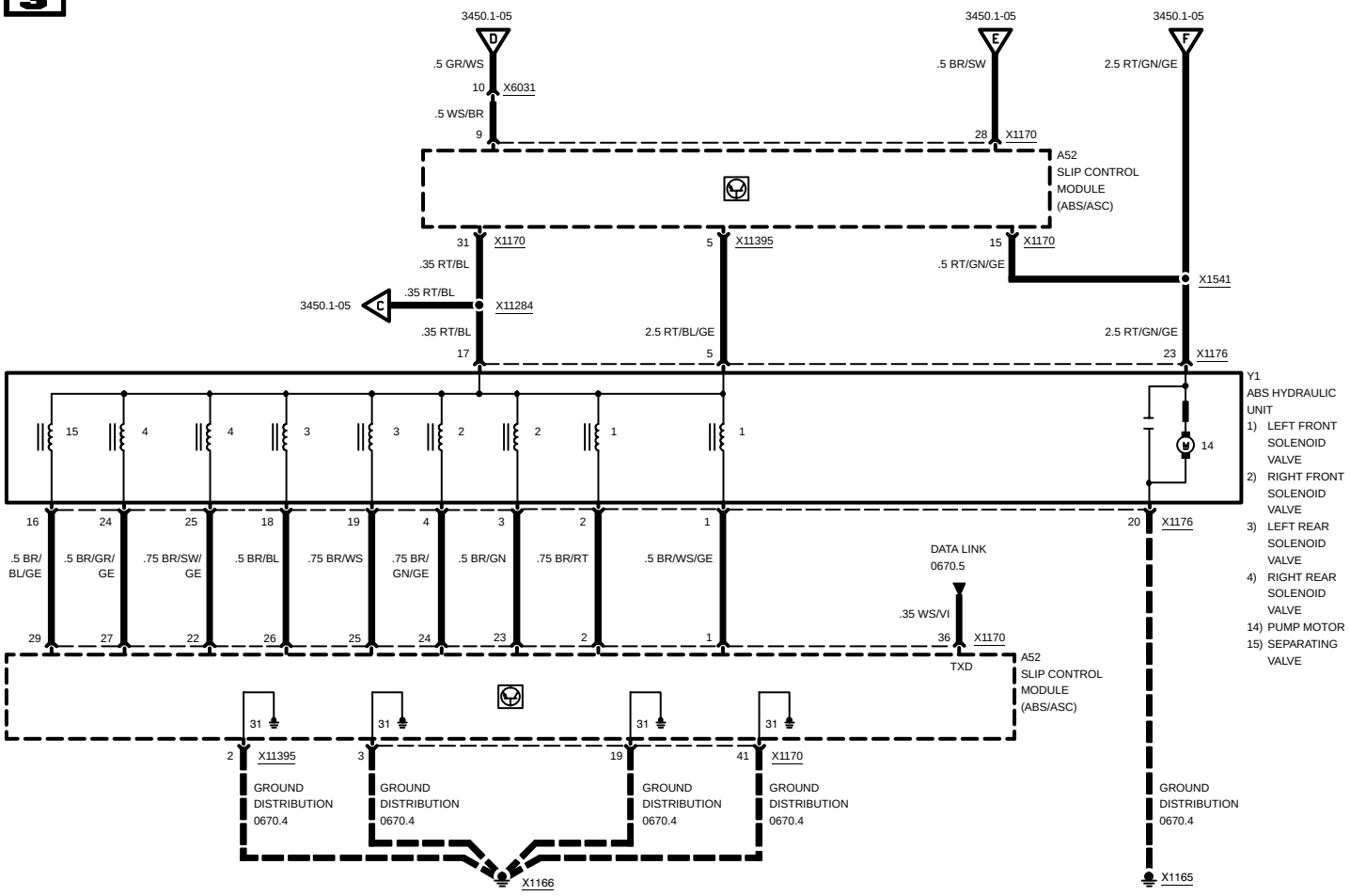
318is



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SLIP CONTROL (ABS/ASC)

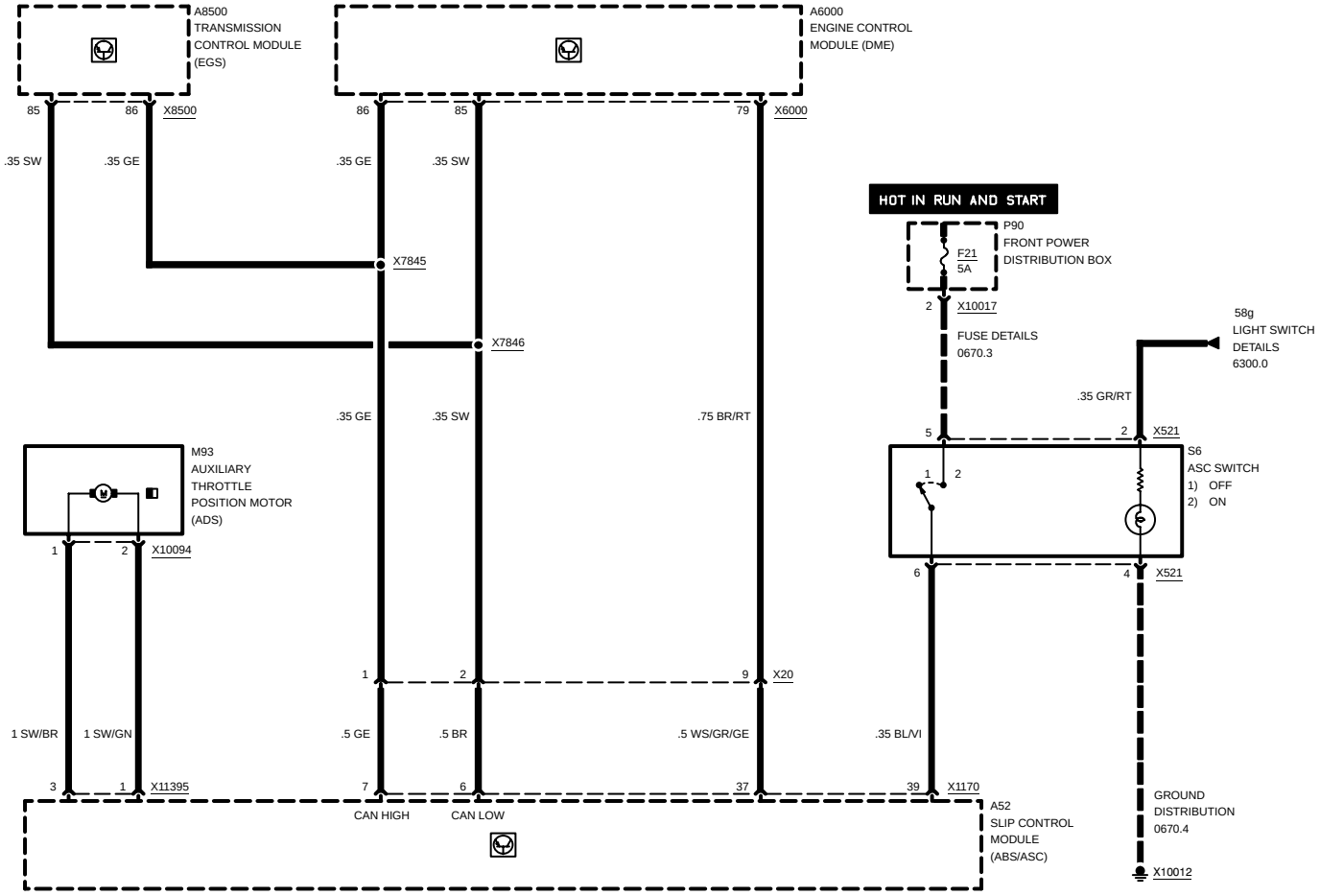
318is



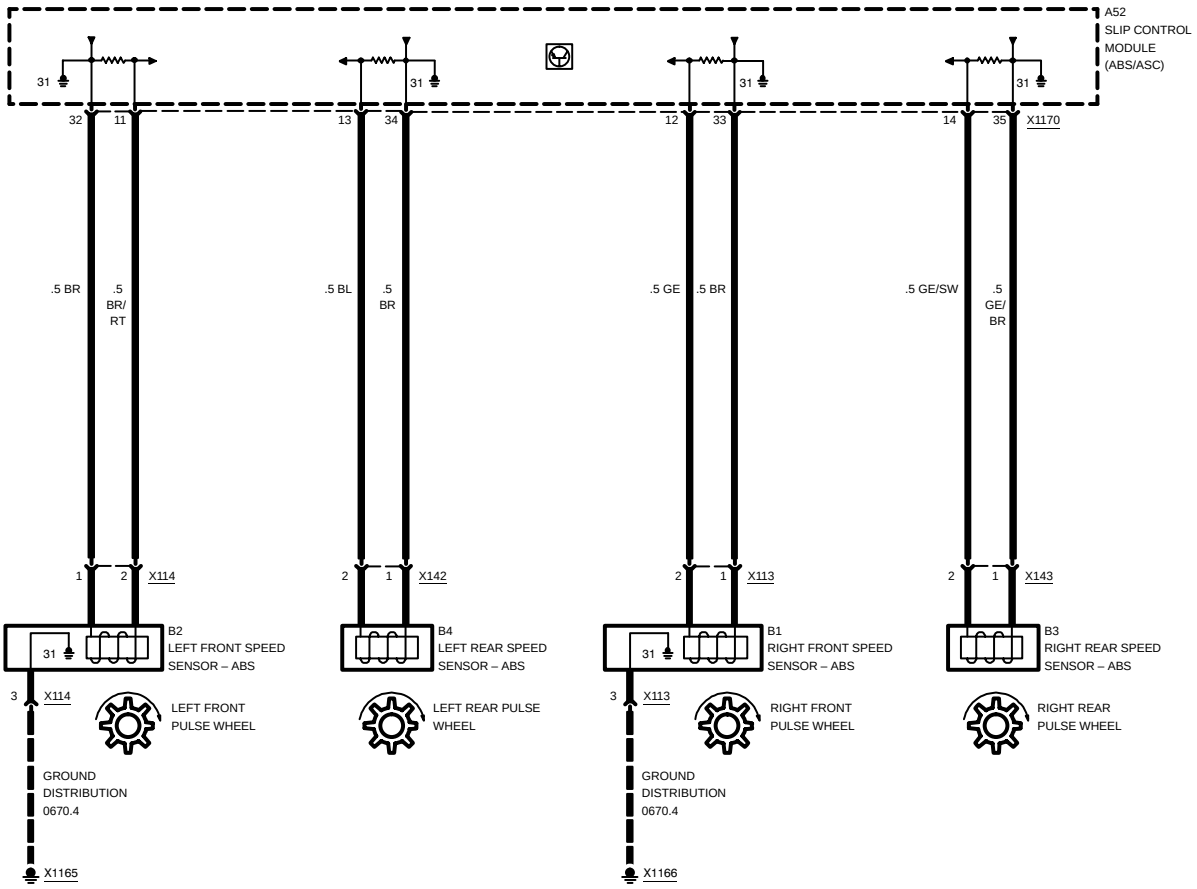
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SLIP CONTROL (ABS/ASC)

318is



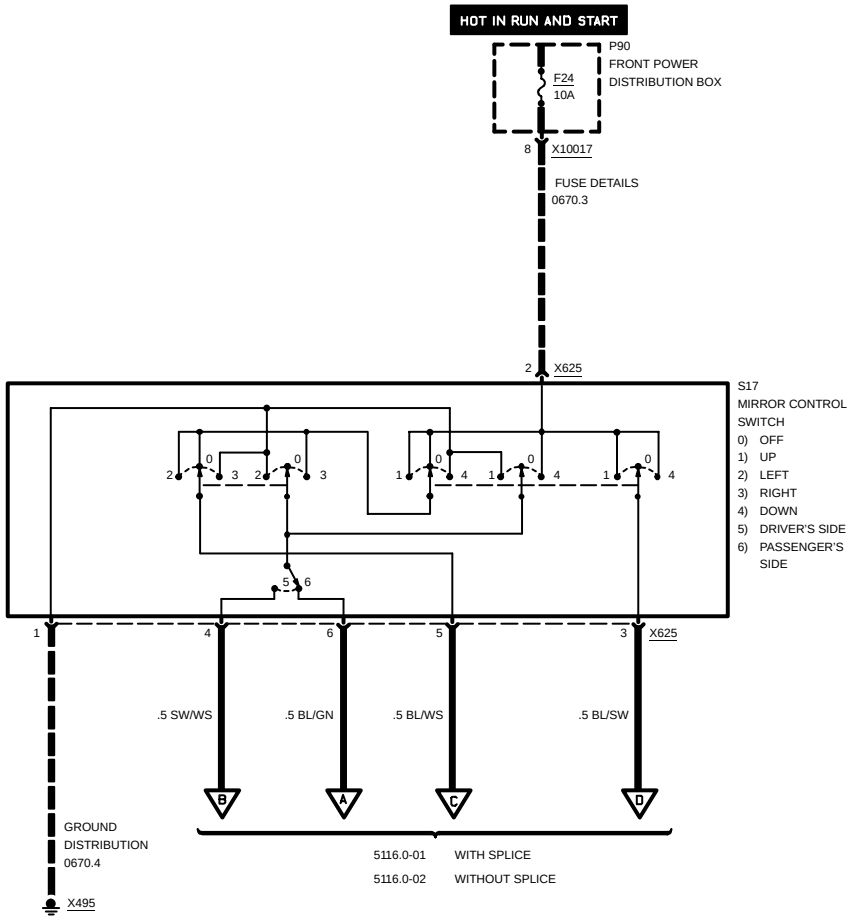
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5116.0 POWER MIRRORS

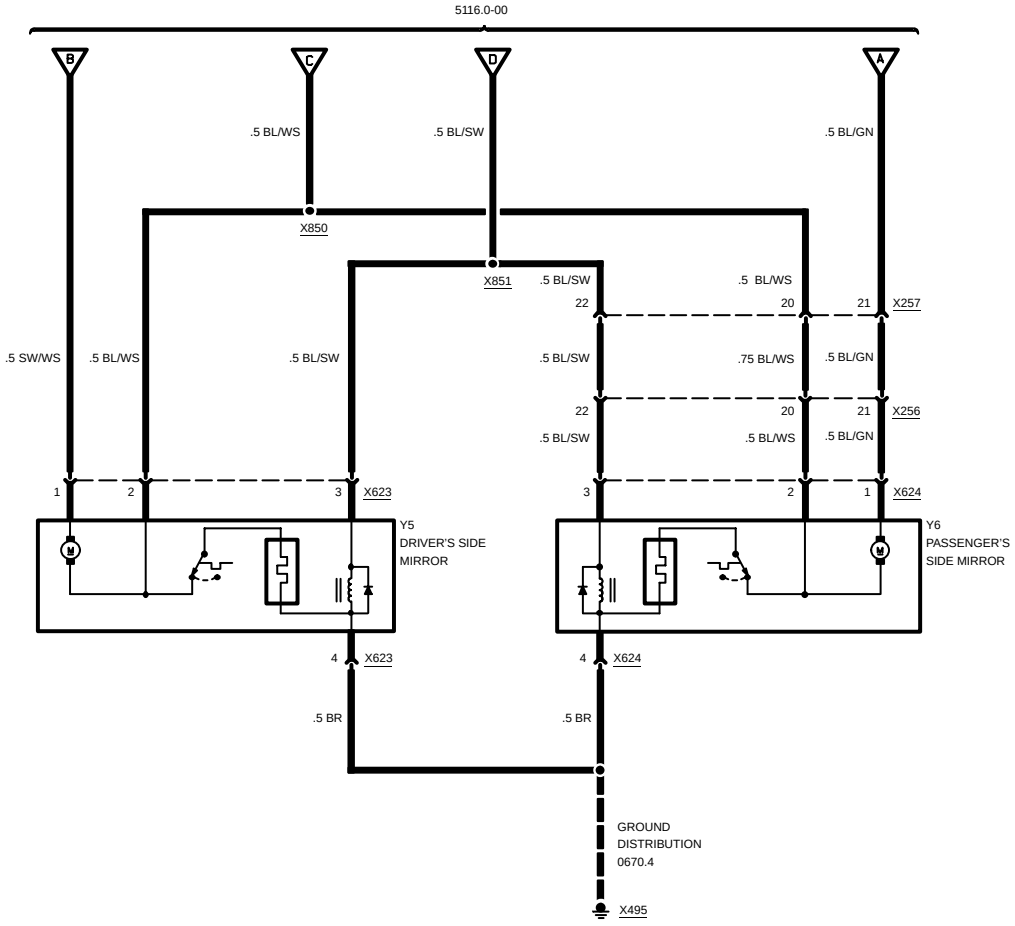
OUTSIDE MIRROR



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POWER MIRRORS

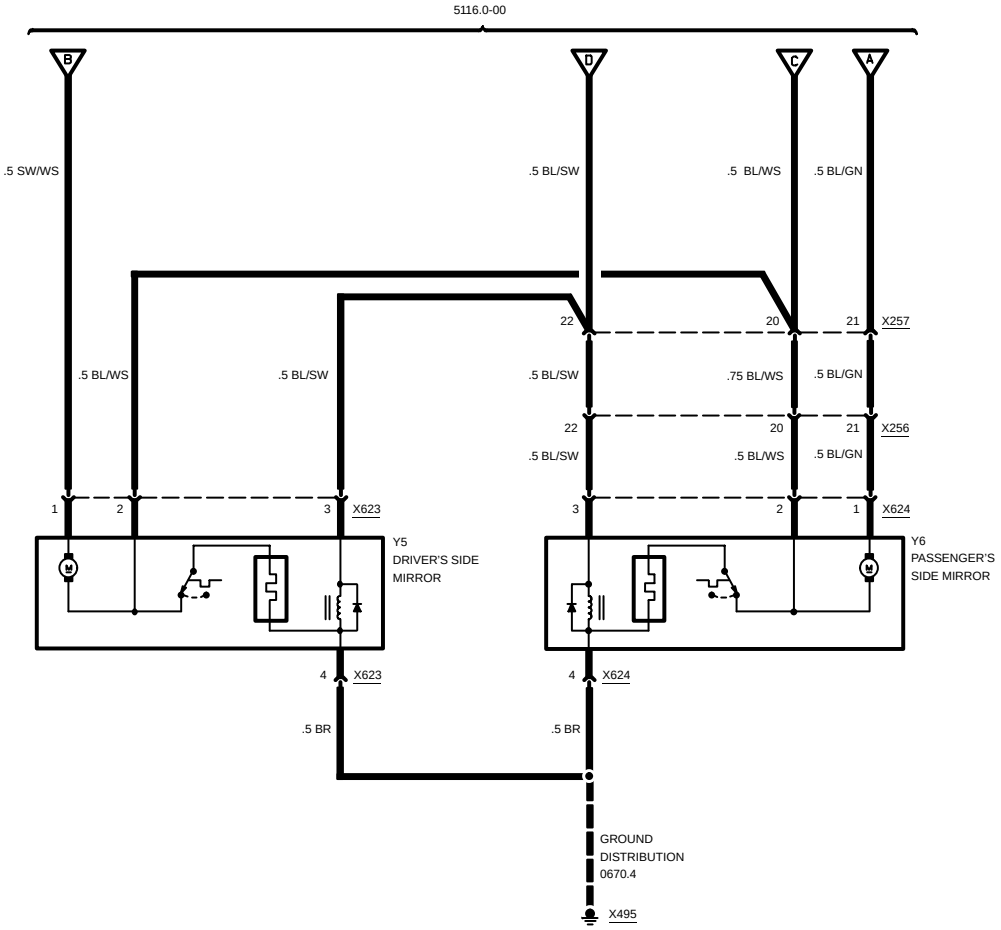
WITH SPLICE



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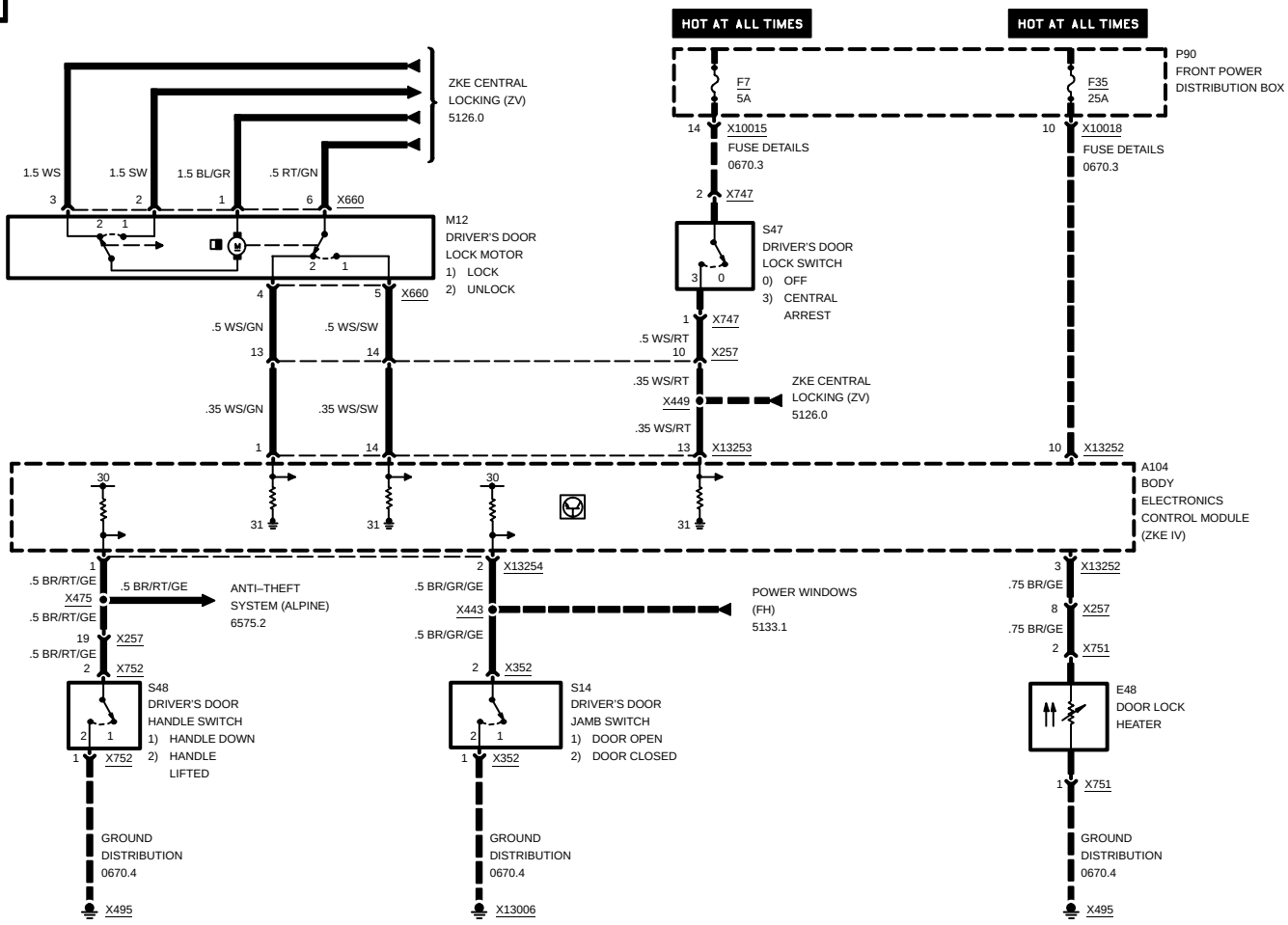
POWER MIRRORS

WITHOUT SPLICE



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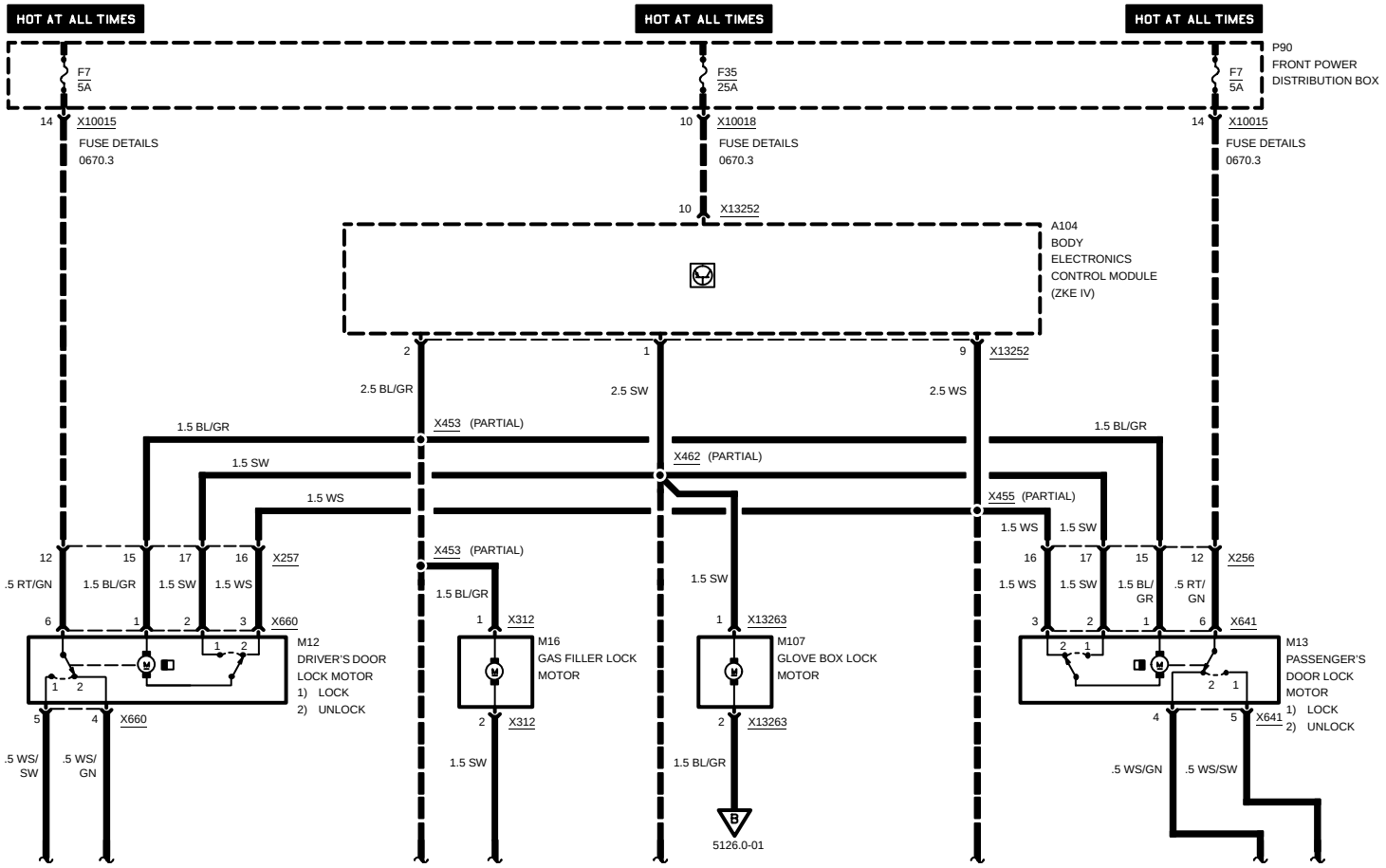
5120.0 ZKE DOOR LOCK HEATING (TSH)



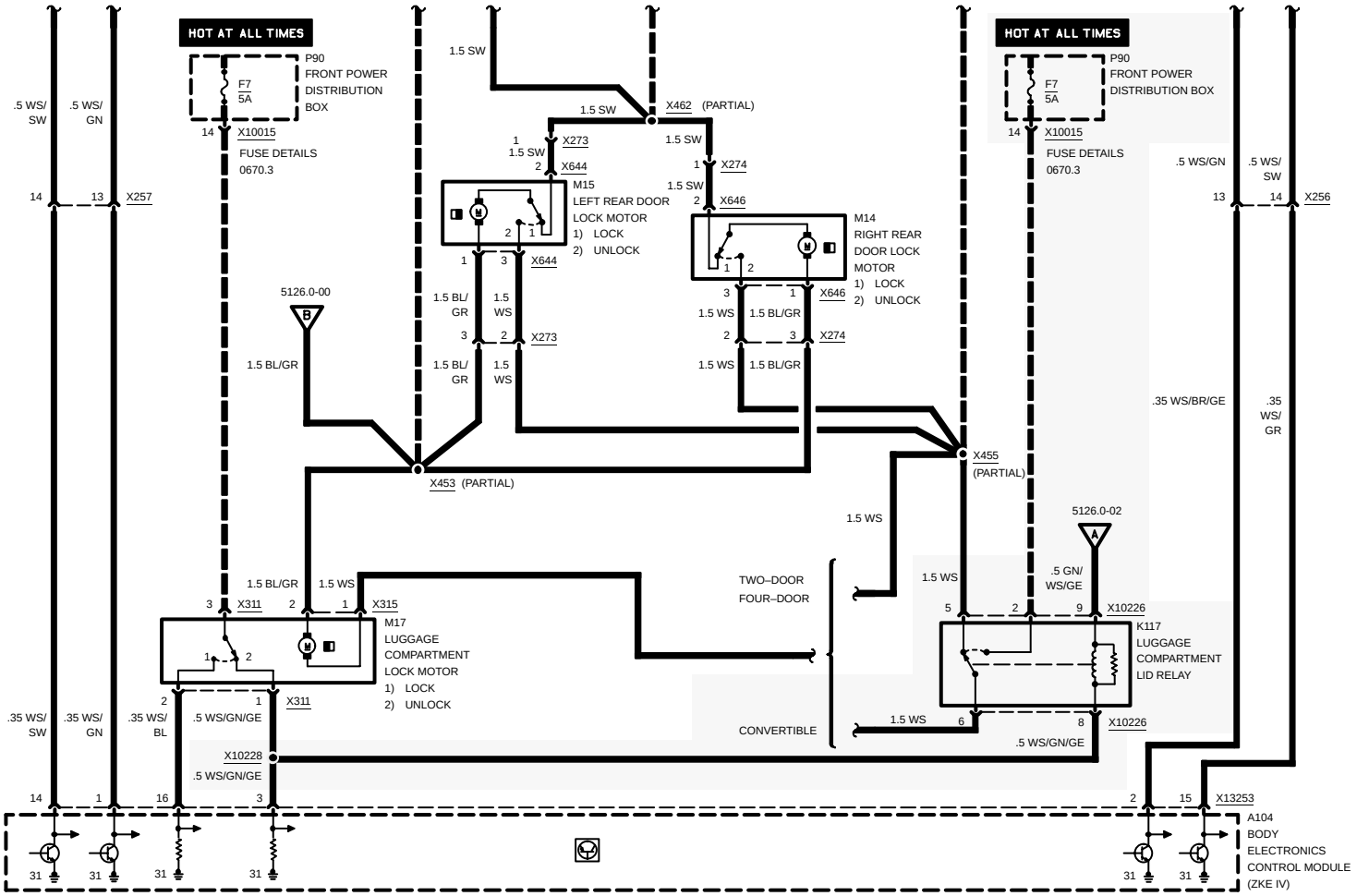
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5126.0 ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

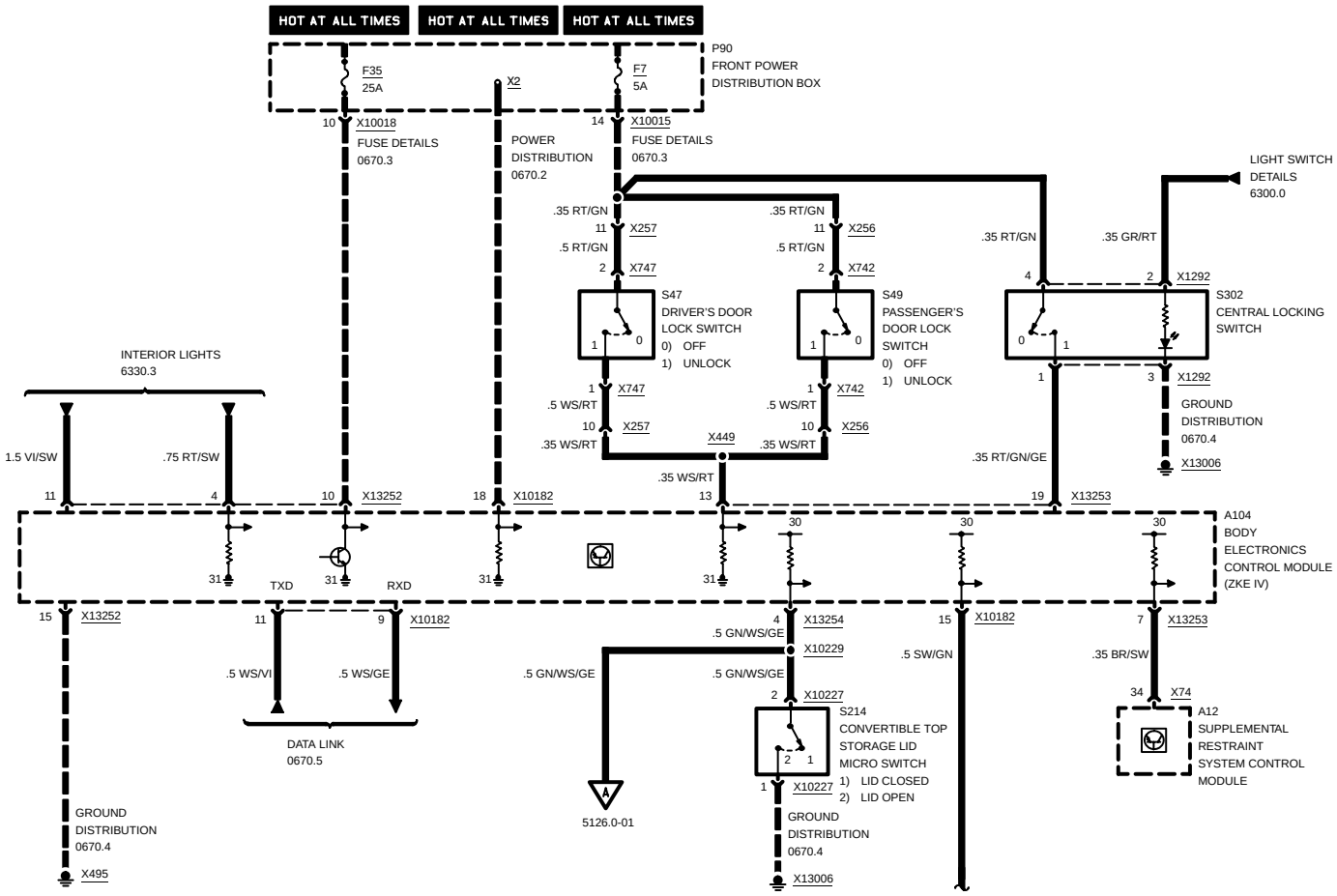


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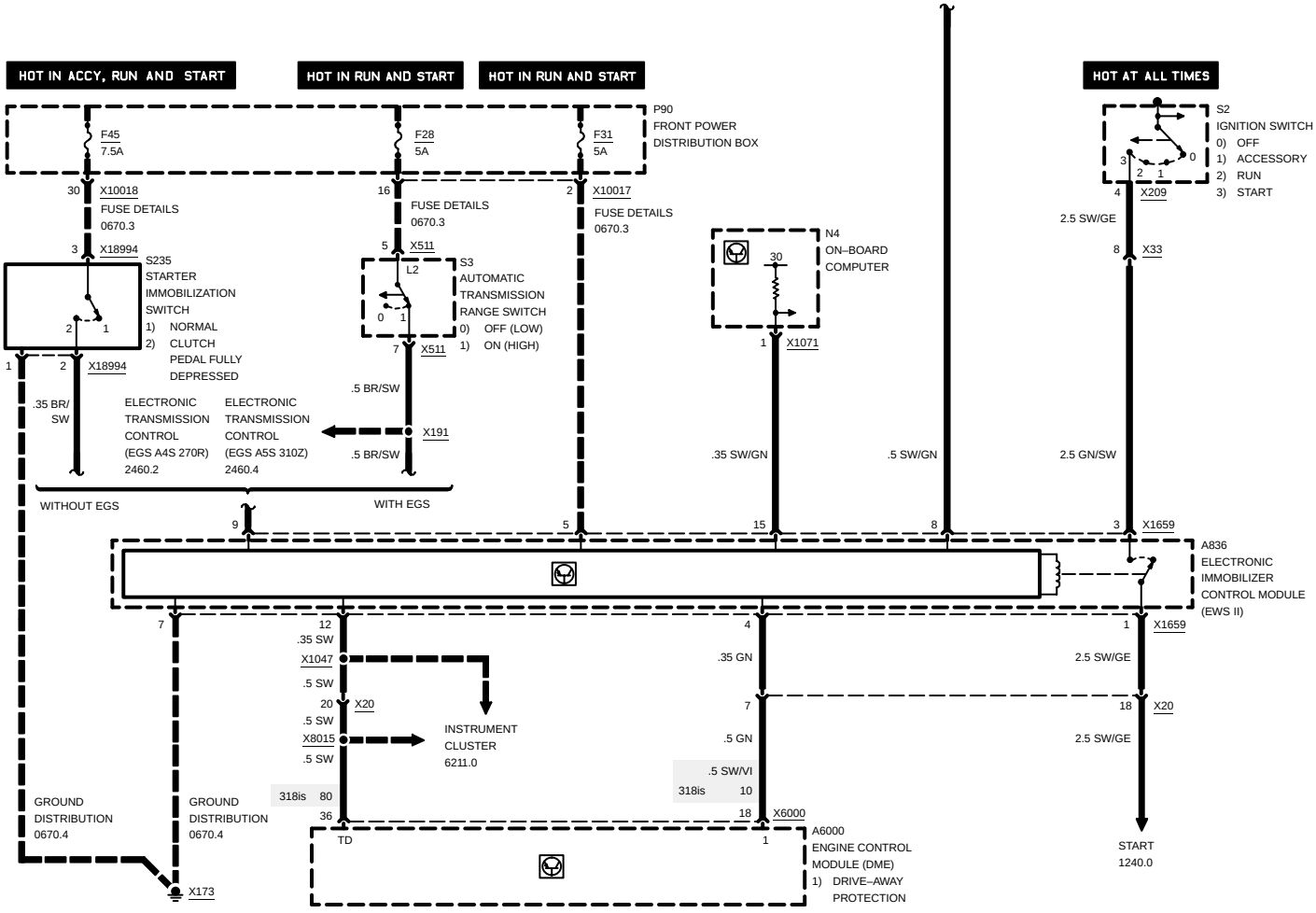


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ZKE CENTRAL LOCKING (ZV)



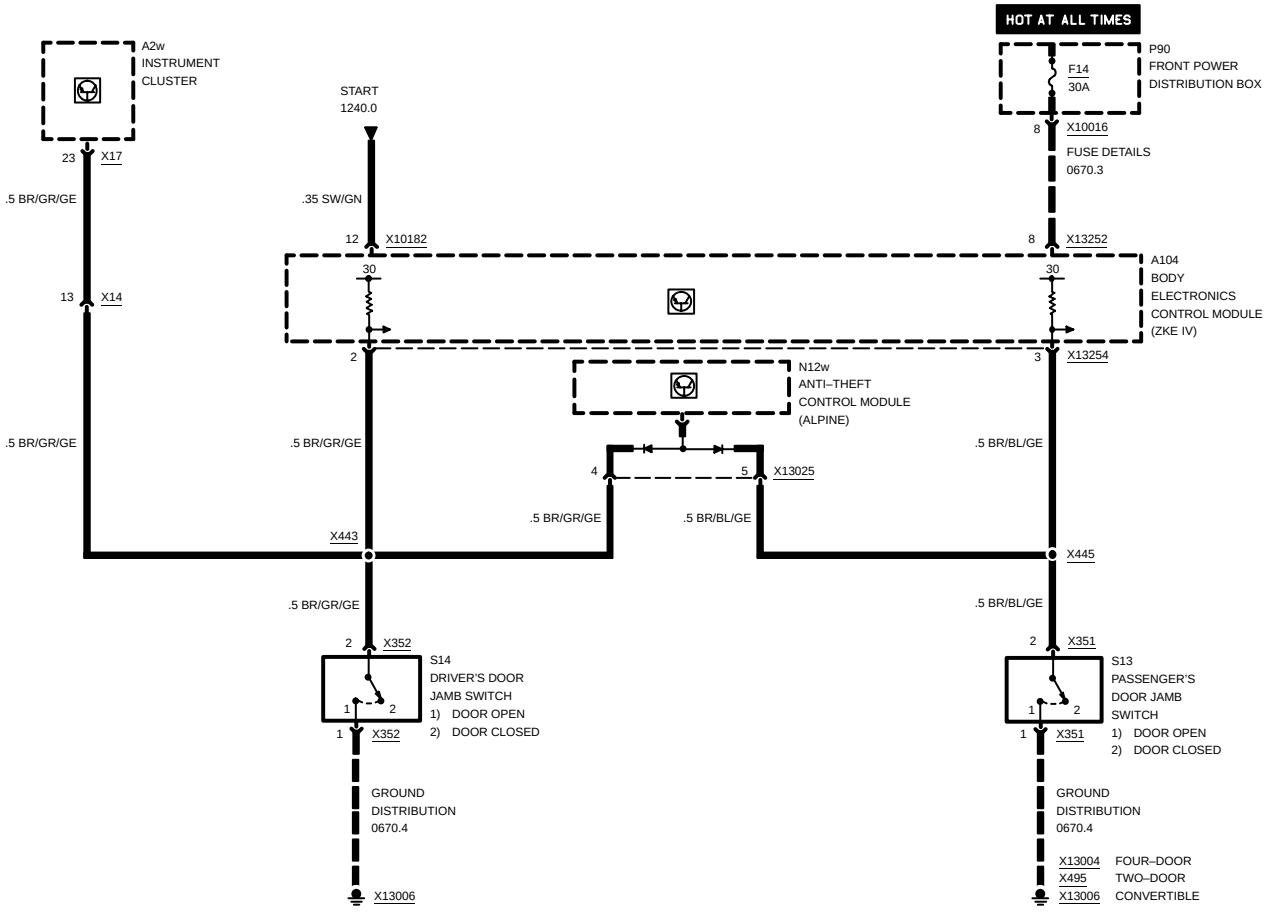
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5133.1 POWER WINDOWS (FH)

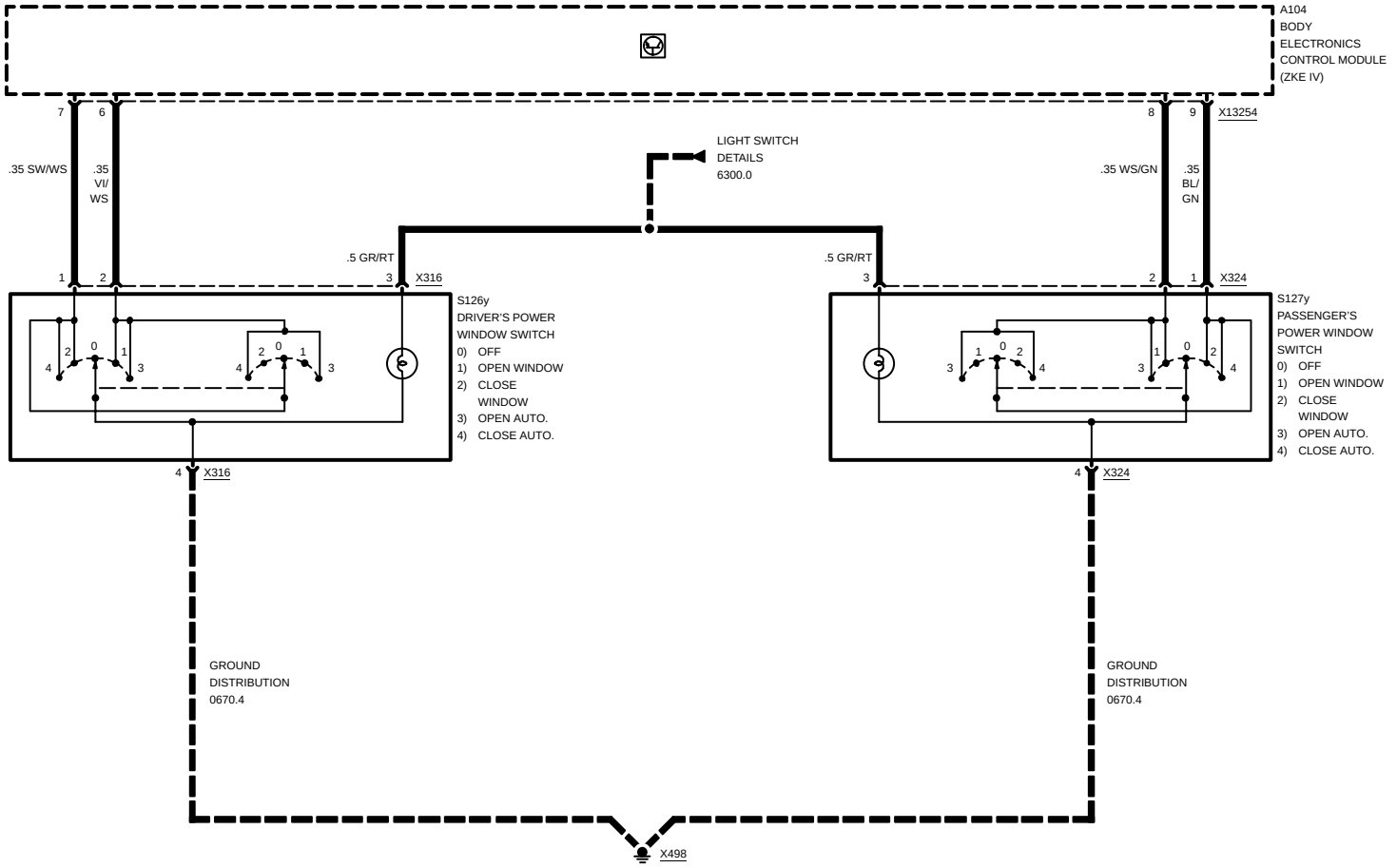
INPUT DETAILS



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POWER WINDOWS (FH)

INPUT DETAILS

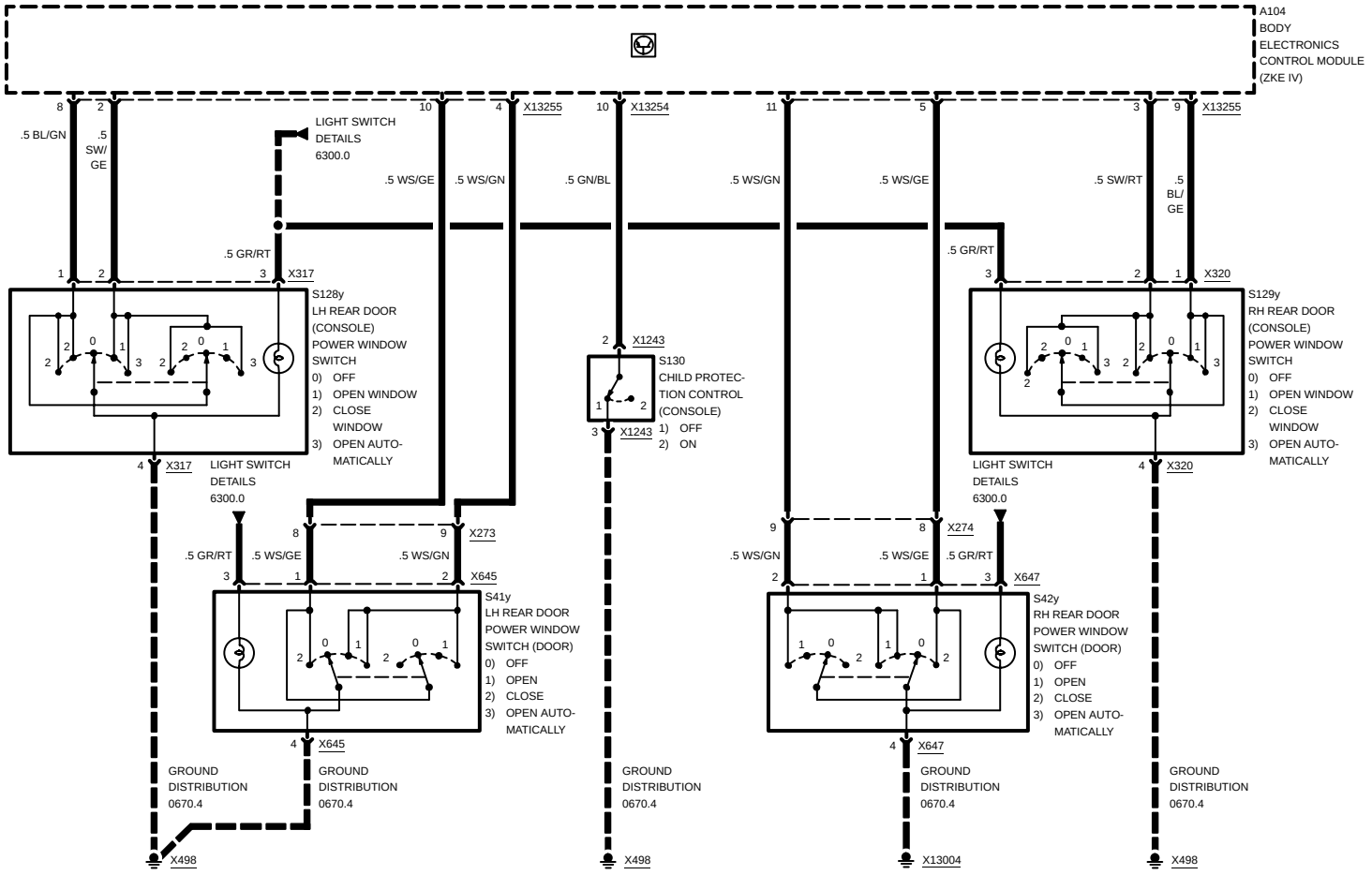


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POWER WINDOWS (FH)

FOUR–DOOR

INPUT DETAILS

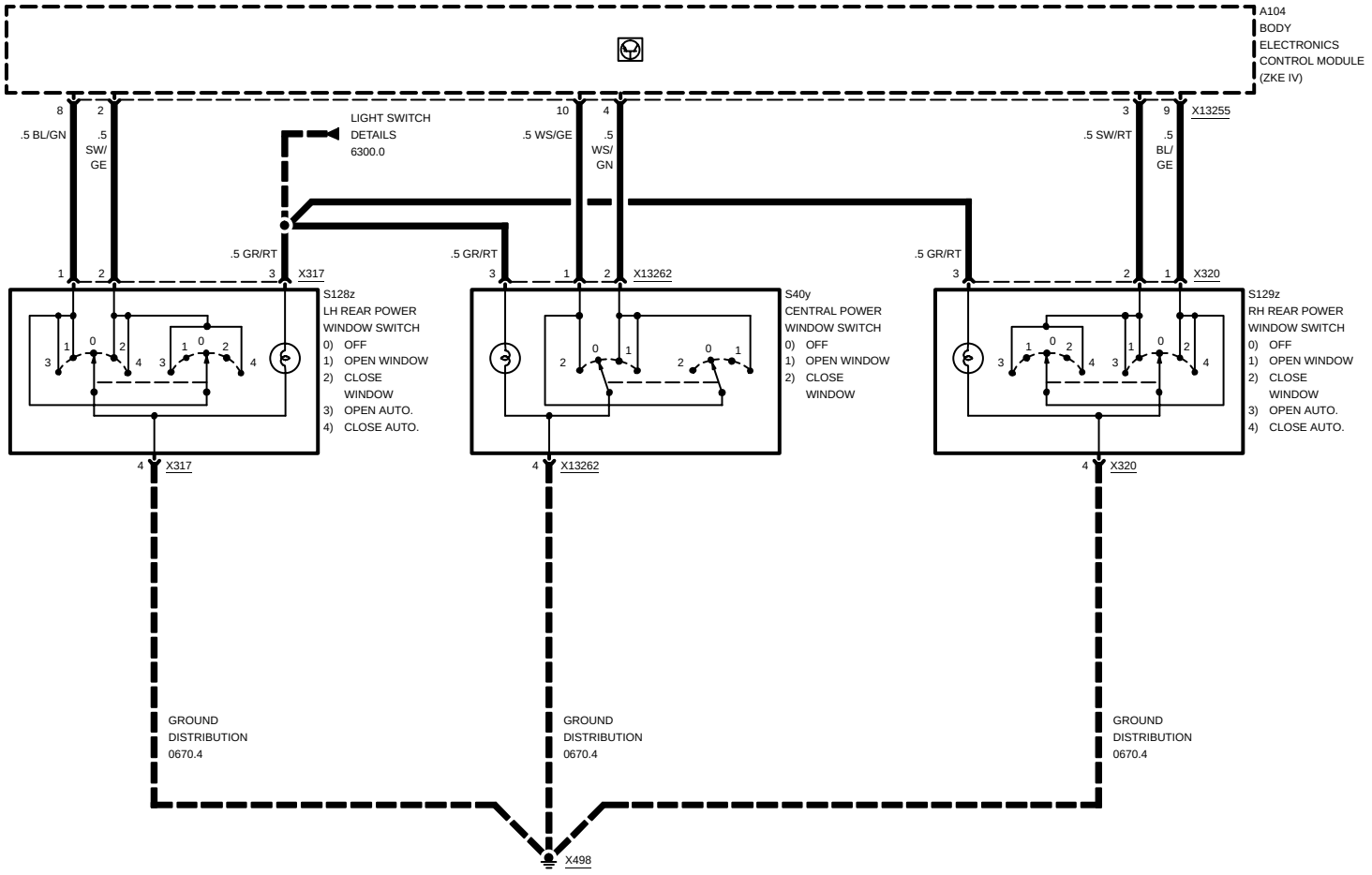


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POWER WINDOWS (FH)

CONVERTIBLE

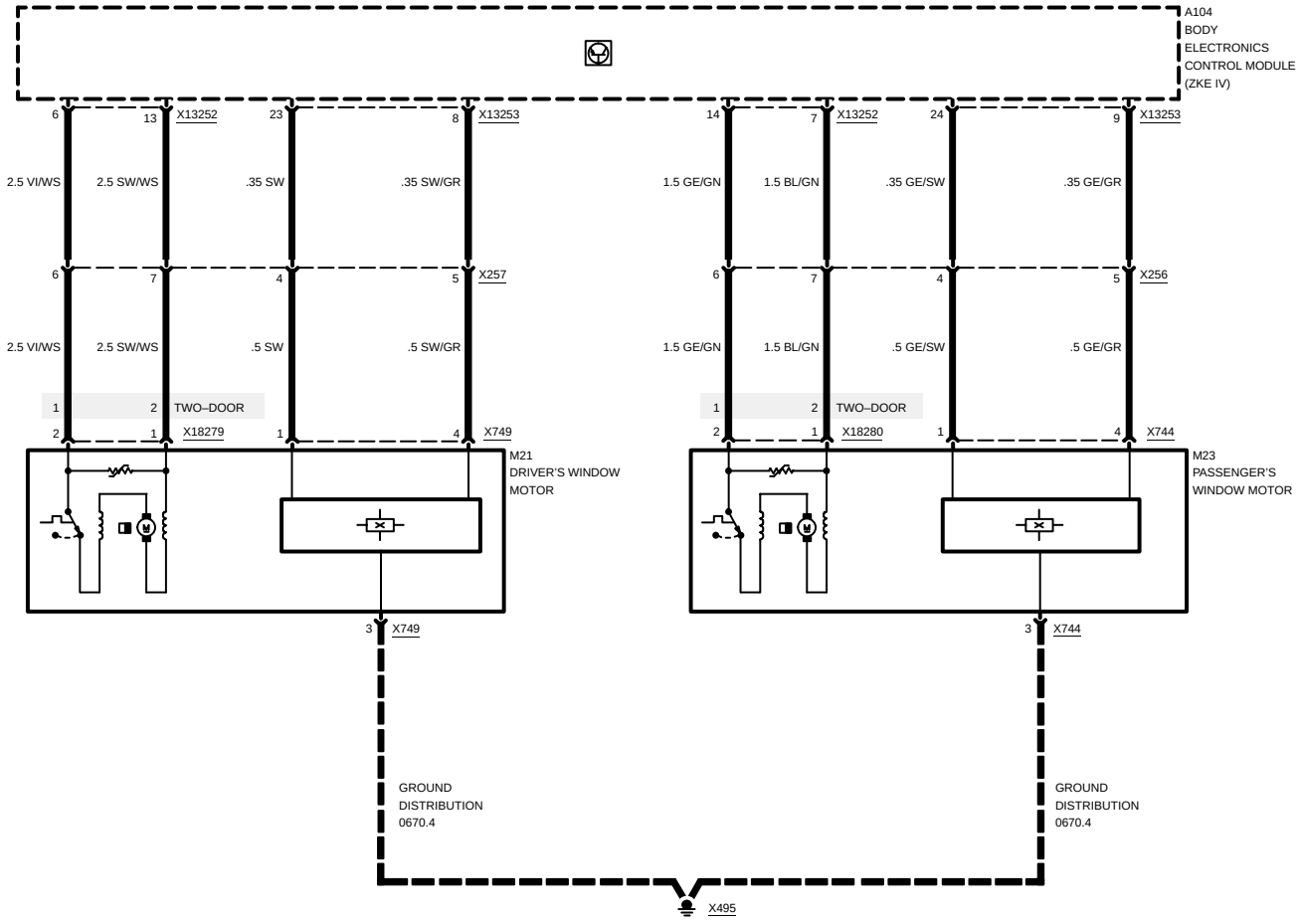
INPUT DETAILS



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POWER WINDOWS (FH)

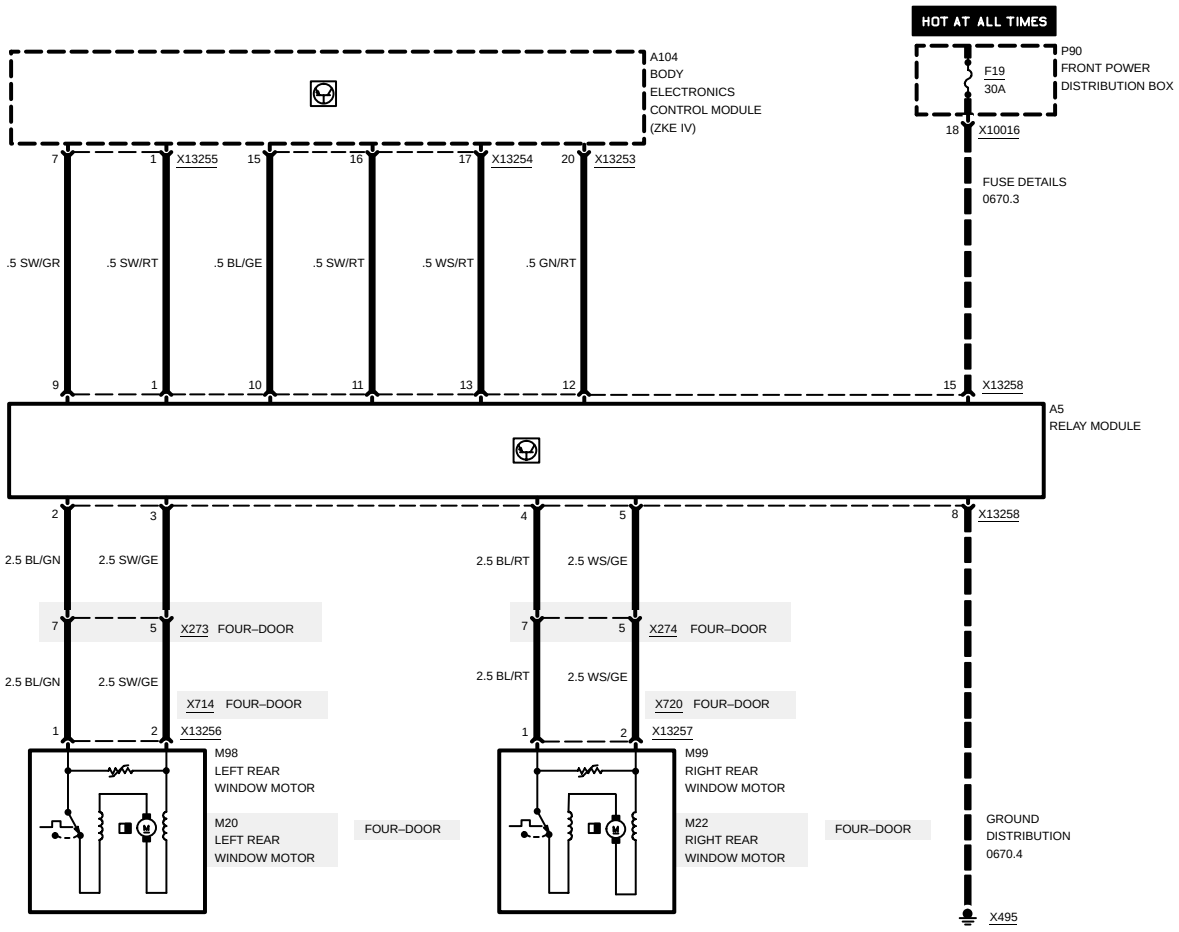
OUTPUT DETAILS



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POWER WINDOWS (FH)

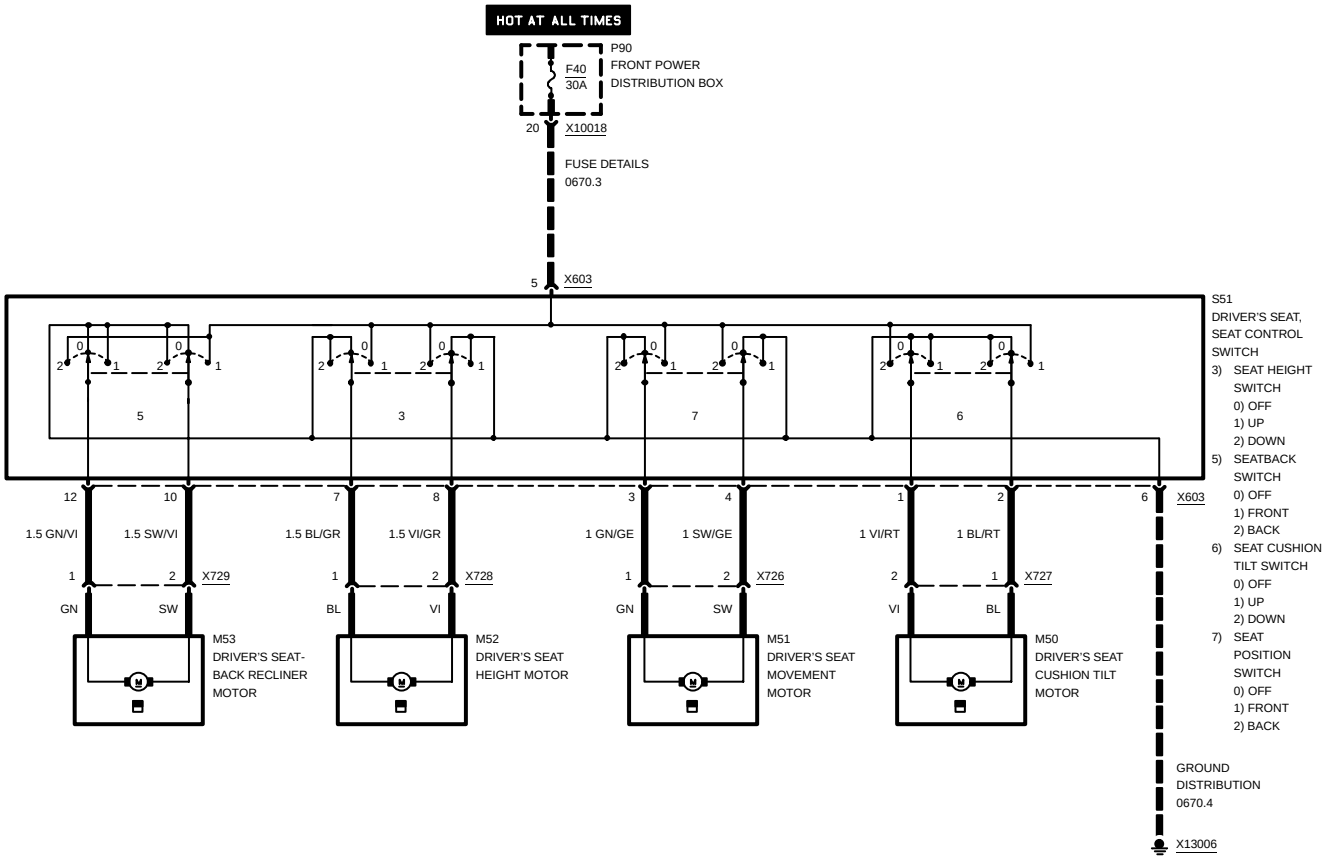
OUTPUT DETAILS



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5200.0 POWER SEATS

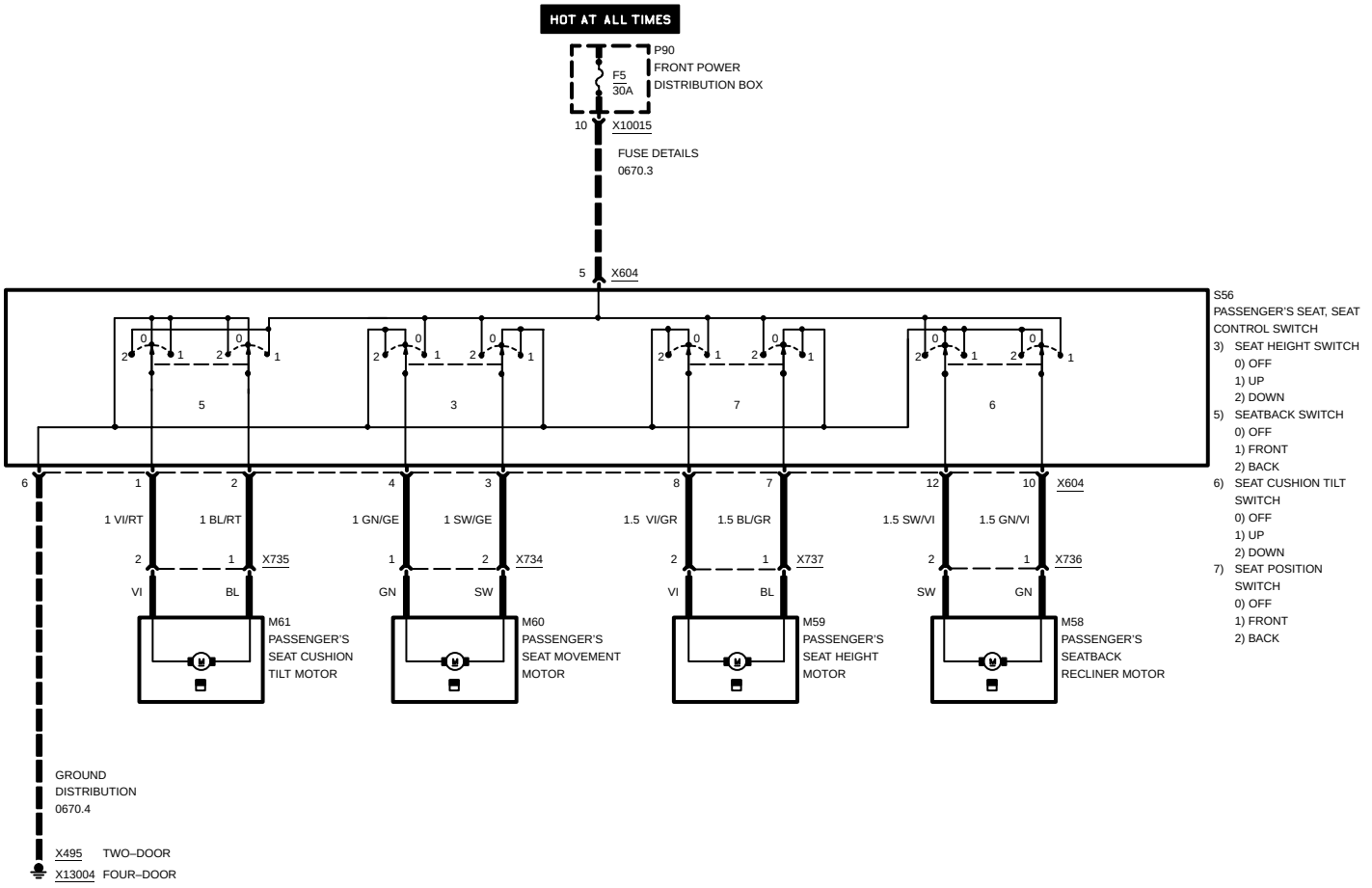
DRIVER'S SEAT



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POWER SEATS

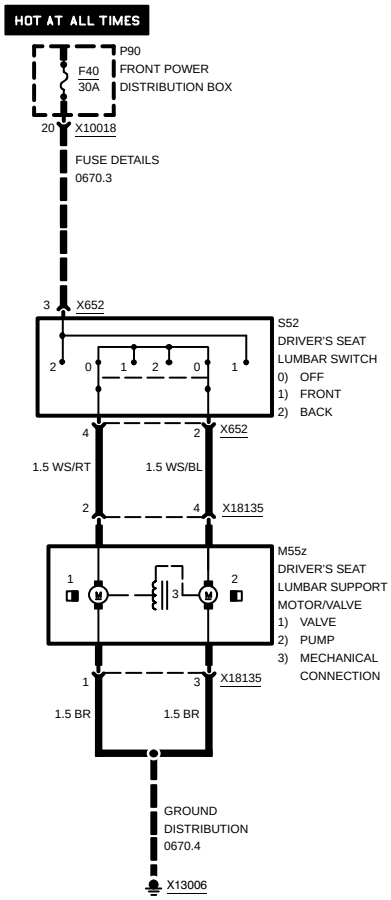
PASSENGER'S SEAT



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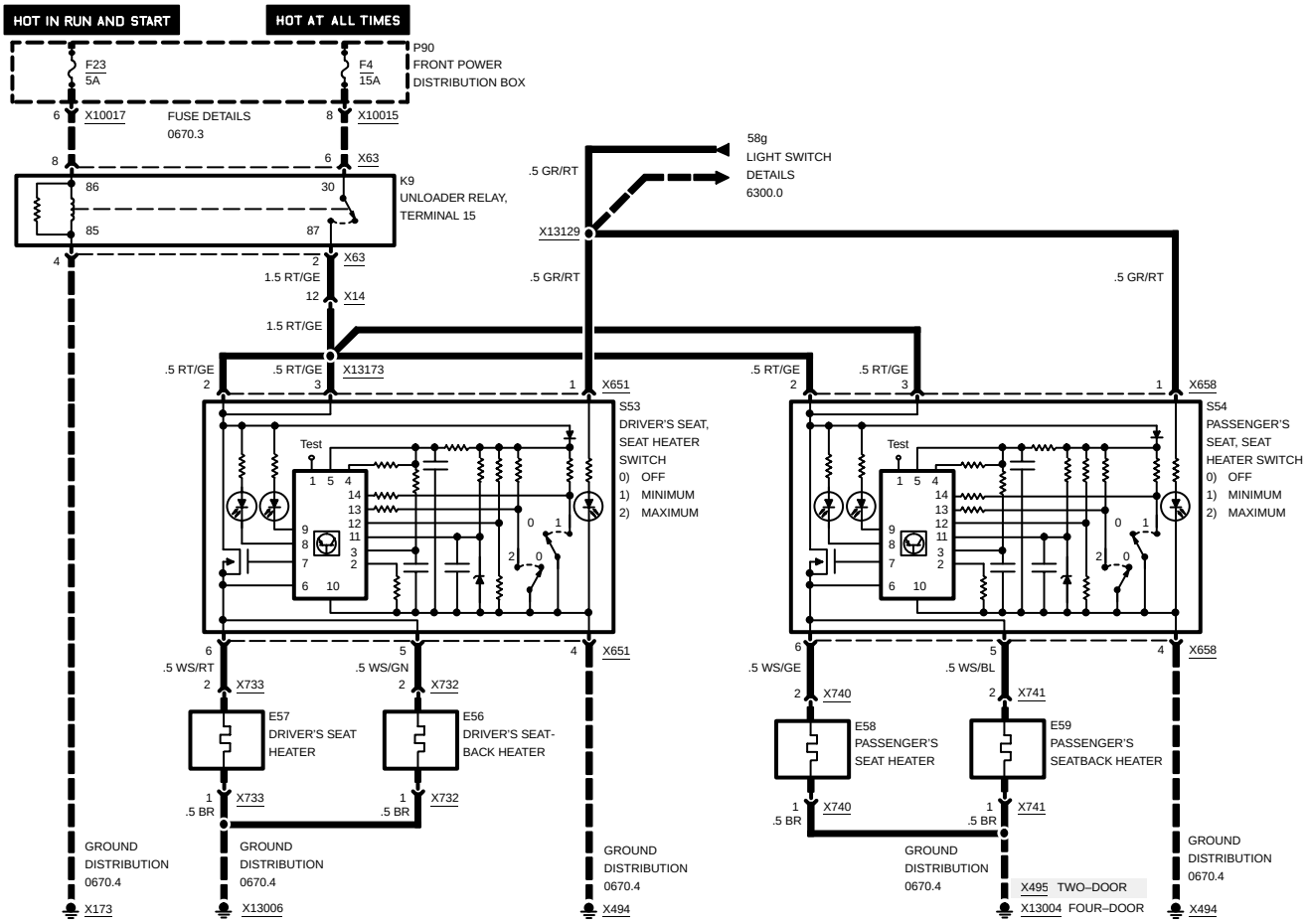
POWER SEATS AND LUMBAR SUPPORT

DRIVER'S SIDE – LUMBAR SUPPORT



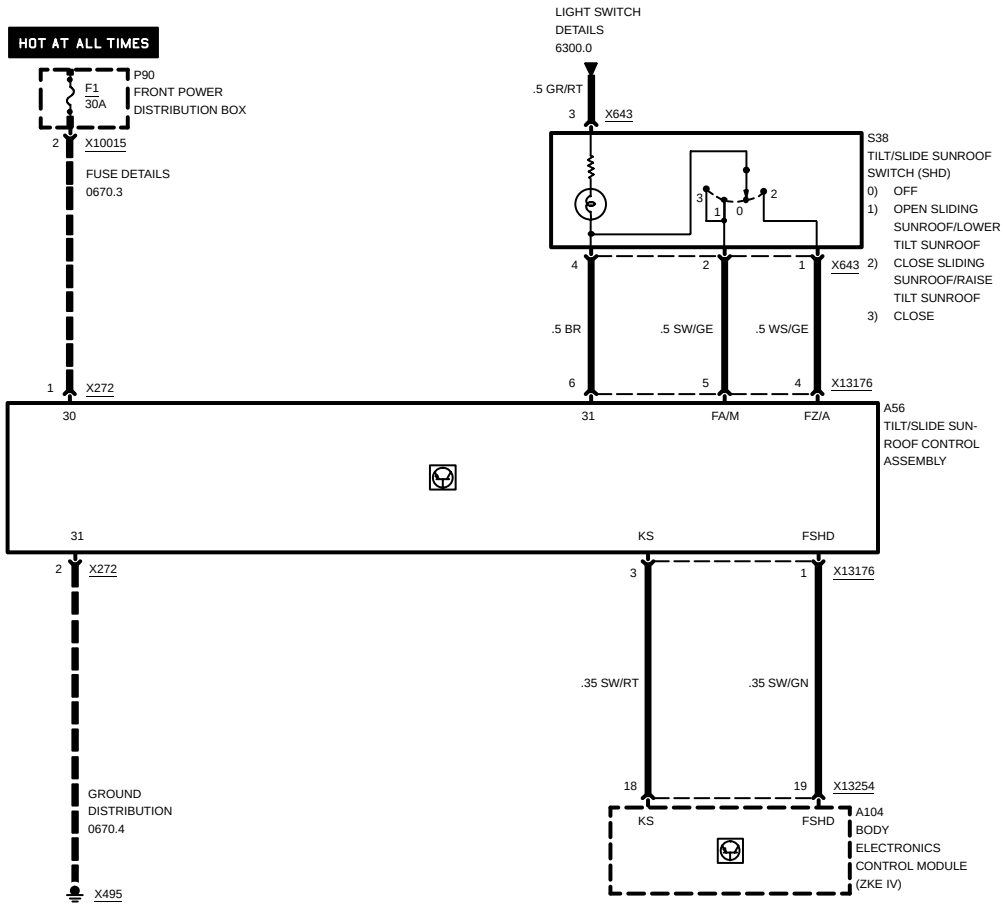
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5203.0 HEATED SEATS

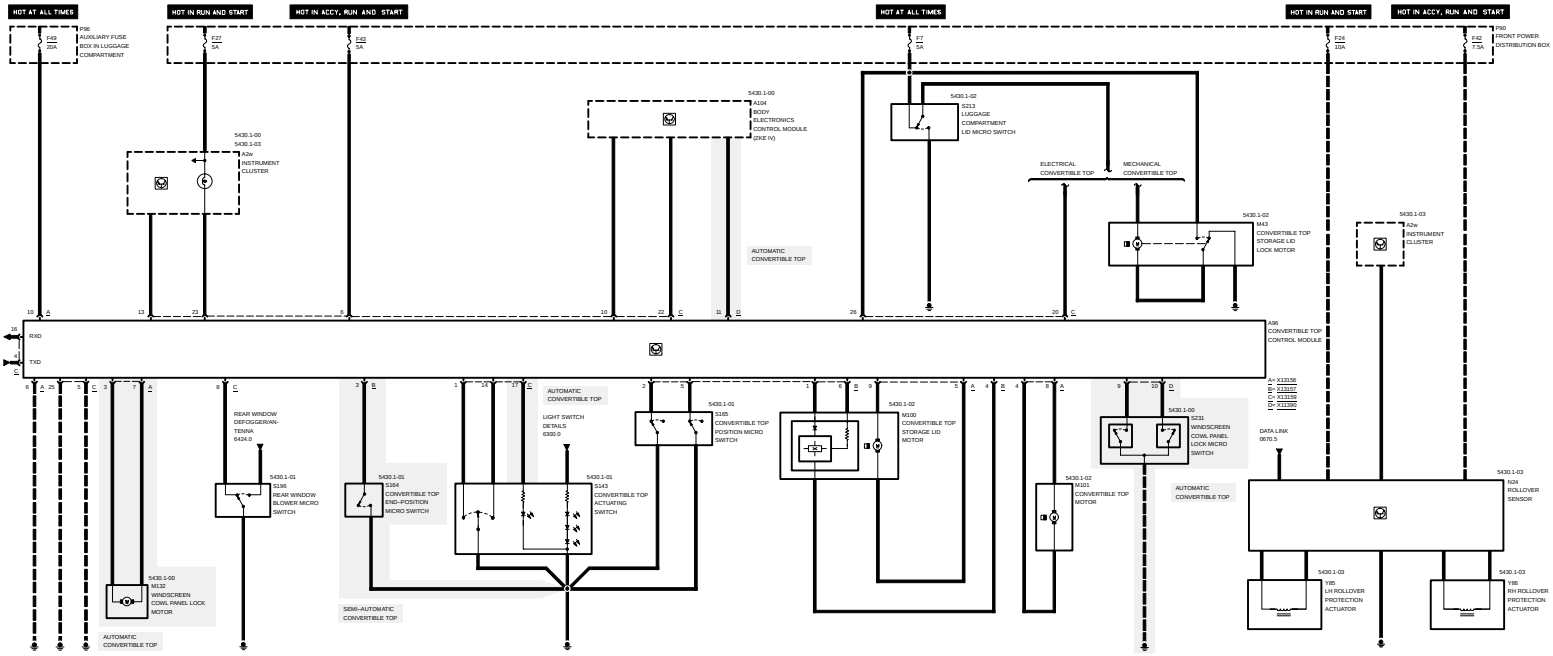


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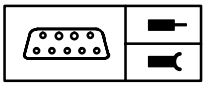
5410.1 POWER TILT/SLIDE SUNROOF (SHD)



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Pin Assignments

A = X13156	10 Pins, black
B = X13157	6 Pins, black
C = X13159	26 Pins, black
D = X11390	12 Pins, black

X13156

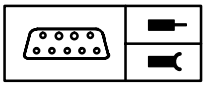
Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3	E/A	Activate engine	Windscreen cowl panel locking (automatic convertible top)
4	E/A	Control signal	Convertible top motor
5	E/A	Control signal	Convertible top storage lid motor
6	M	Ground	Ground
7	E/A	Activate engine	Windscreen cowl panel locking (automatic convertible top)
8	E/A	Control signal	Convertible top motor
9	E/A	Control signal	Convertible top storage lid motor
10	E	Plus supply 12V	Fuse 49

X13157

Pin	Type	Description/Function	Connection
1	A	Plus supply	Position sensor (convertible top storage lid motor)
2	E	Position signal	Convertible top position micro switch
3	E	Position signal	Convertible top end position micro switch (semi-automatic convertible top)
4	E	Component ground	Position sensor (convertible top storage lid motor)
5	E	Position signal	Convertible top position micro switch
6	E	Control signal	Position sensor (convertible top storage lid motor)

E = Input, A = Output, M = Ground

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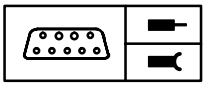
Pin Assignments

X13159

Pin	Type	Description/Function	Connection
1	E	Top open signal	Convertible top actuating switch
2		Not used	
3		Not used	
4	E/A	TxD data signal	Data link connector
5	M	Ground	Hard top connector 1
6	E	Power supply	Front power distribution box
7		Not used	
8	E	Rear window blower signal	Rear window blower micro switch
9		Not used	
10	A	Data signal	Body electronics control module
11		Not used	
12		Not used	
13	A	Speed signal	Instrument cluster
14	E	Top closed signal	Convertible top actuating switch
15		Not used	
16	A	RxD data signal	Data link connector
17	A	LED	Convertible top actuating switch
18		Not used	
19		Not used	
20	E	Luggage compartment lid signal	Luggage compartment lid micro switch
21		Not used	
22	A	Data signal	Body electronics control module
23		Not used	
24		Not used	
25	M	Ground	Ground
26	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

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Pin Assignments

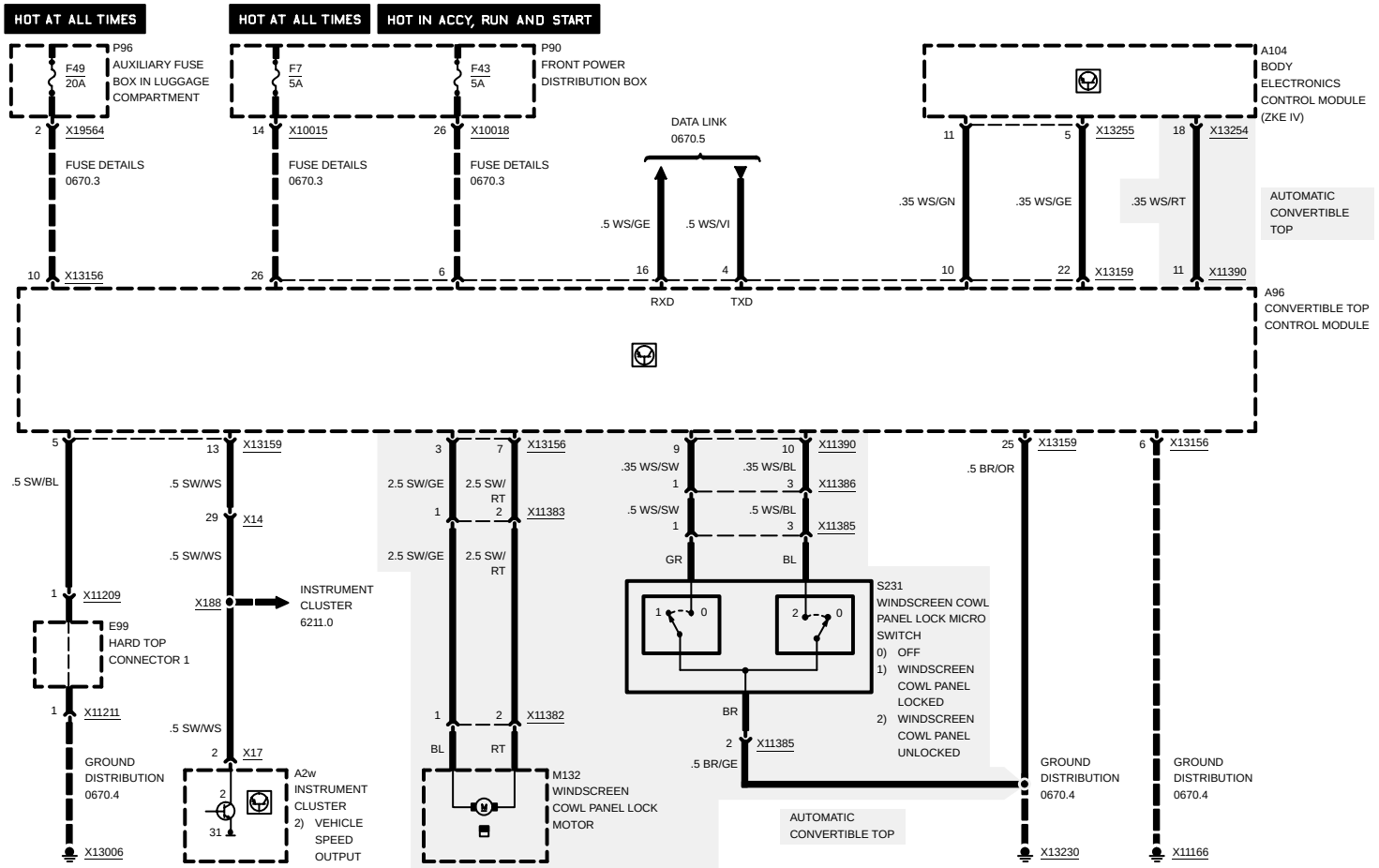
X11390

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3		Not used	
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9	E/A	Lock windscreen cowl panel	Windscreen cowl panel lock microswitch (automatic convertible top)
10	E/A	Unlock windscreen cowl panel	Windscreen cowl panel UNLOCKED (automatic convertible top)
11	E/A	Comfort closing	Body electronics control module (ZKE IV) (automatic convertible top)
12		Not used	

E = Input, A = Output, M = Ground

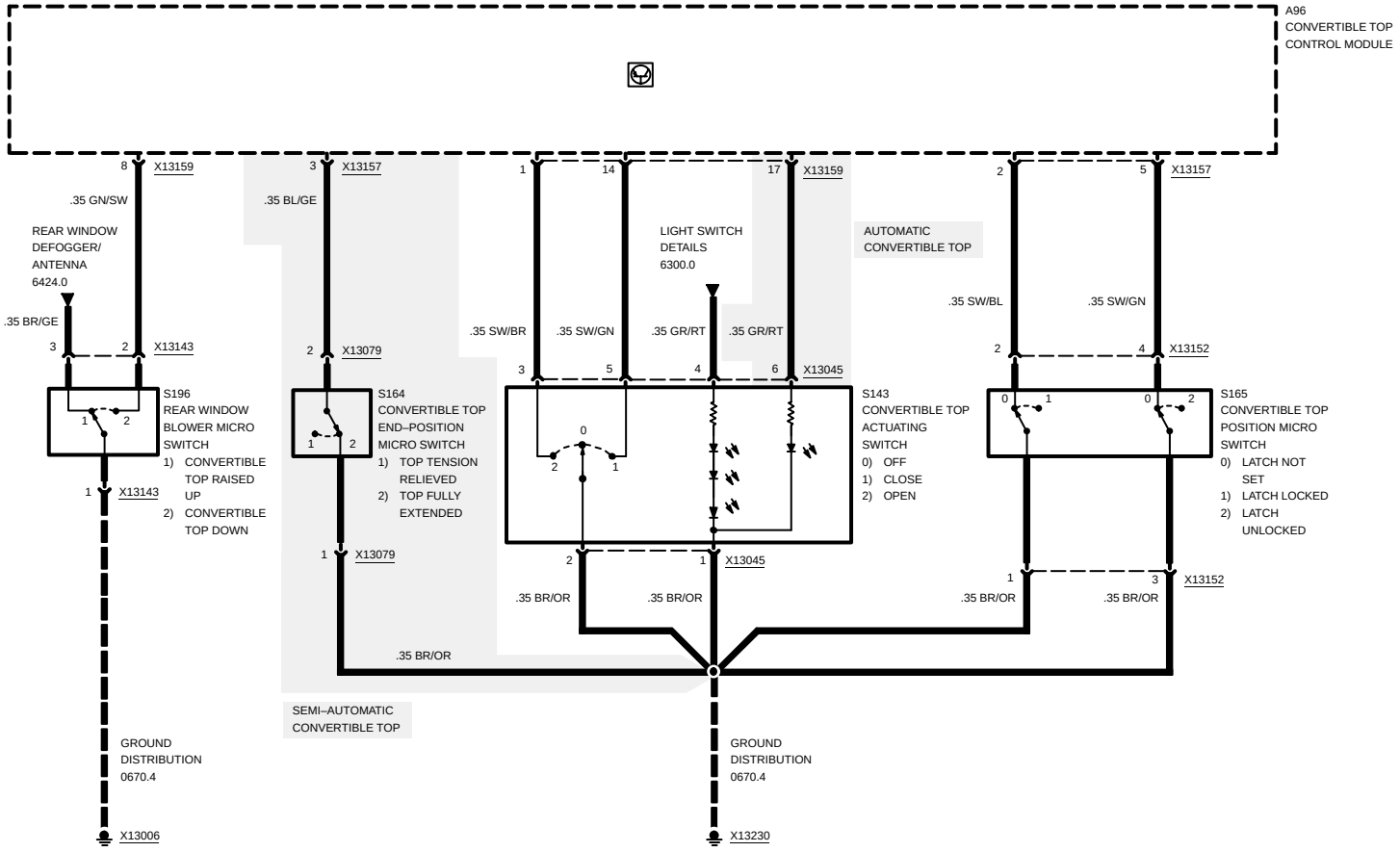
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ELECTRICAL CONVERTIBLE TOP



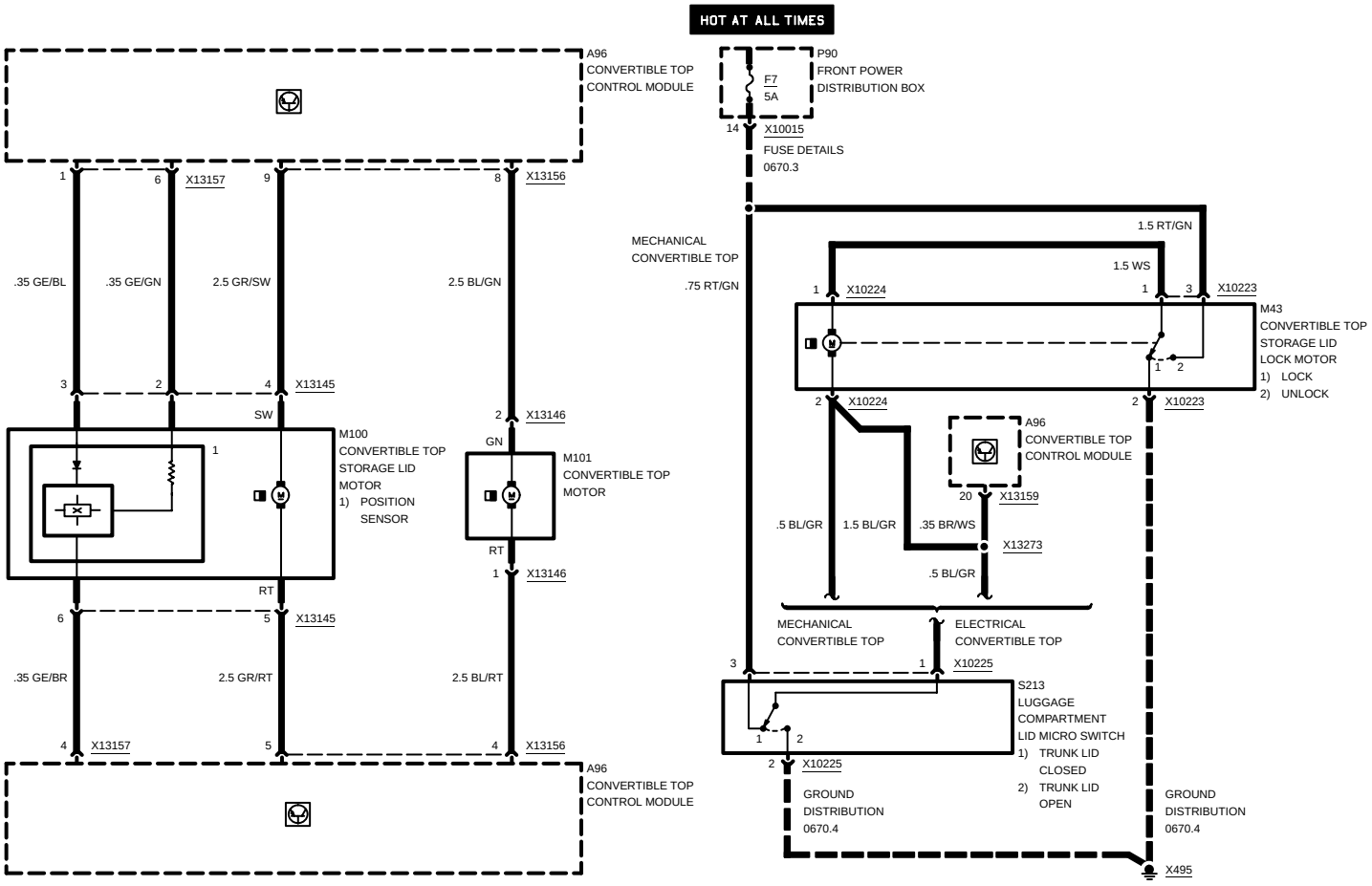
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ELECTRICAL CONVERTIBLE TOP



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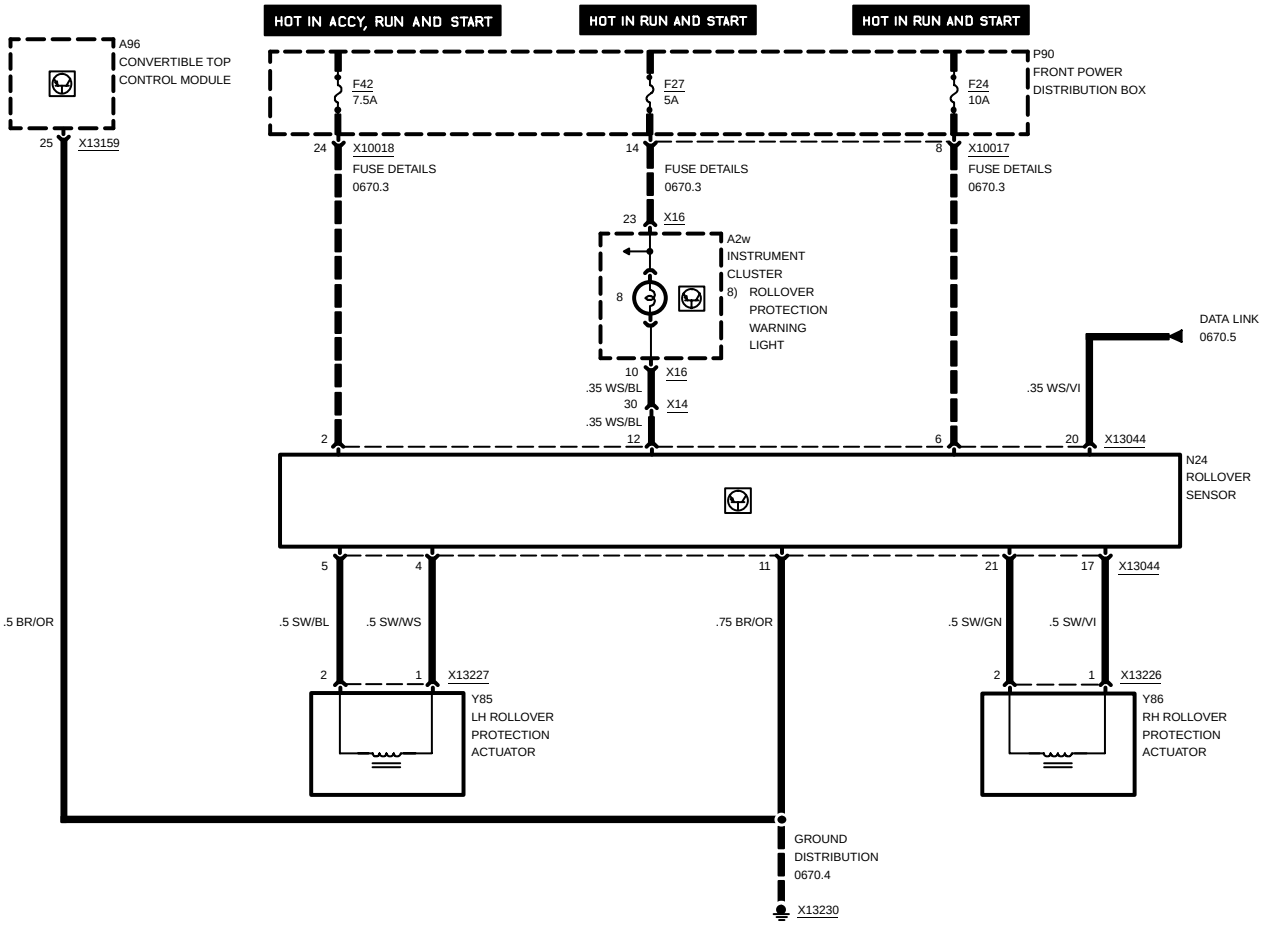
ELECTRICAL CONVERTIBLE TOP



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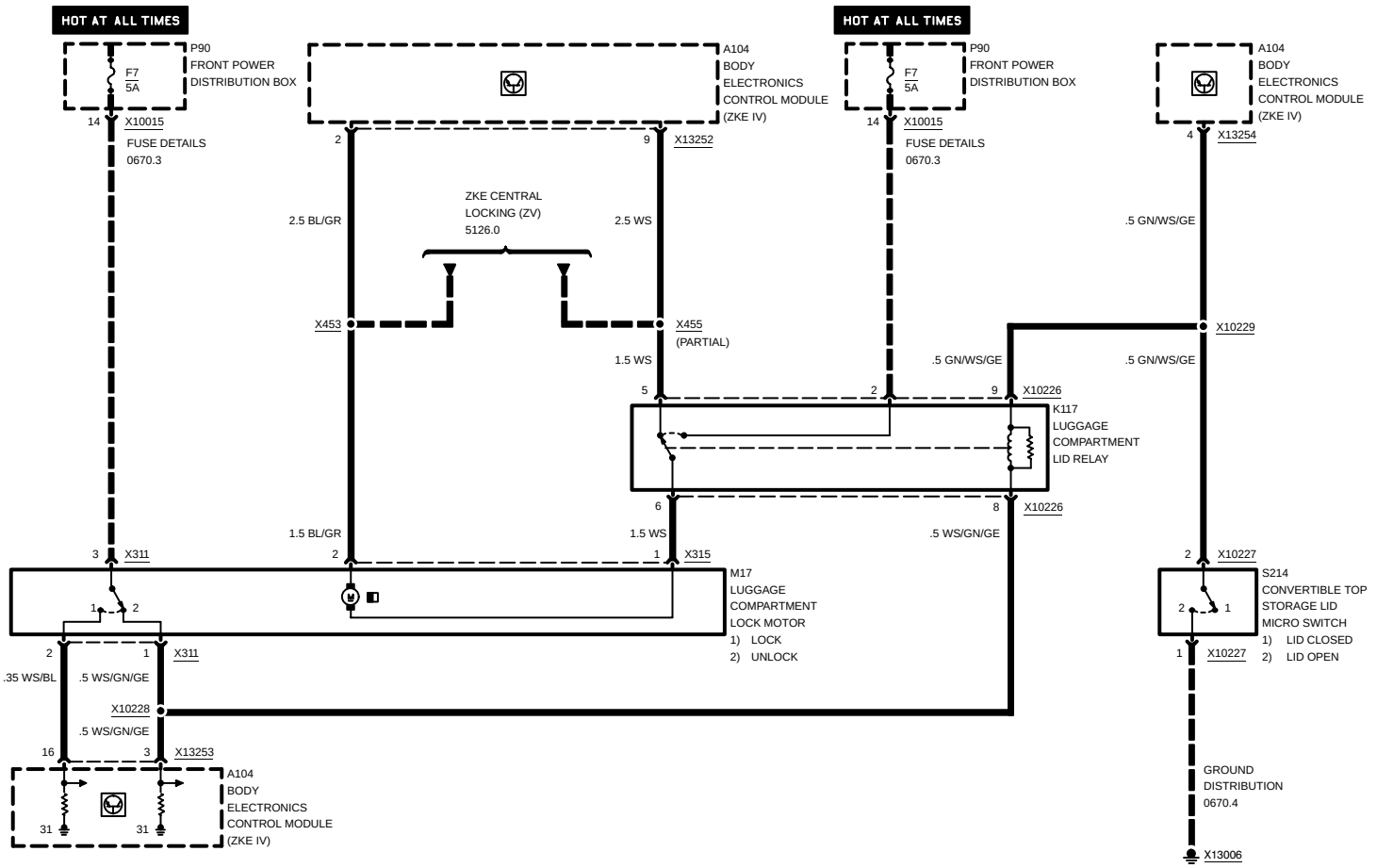
ELECTRICAL CONVERTIBLE TOP

ROLLOVER SENSOR

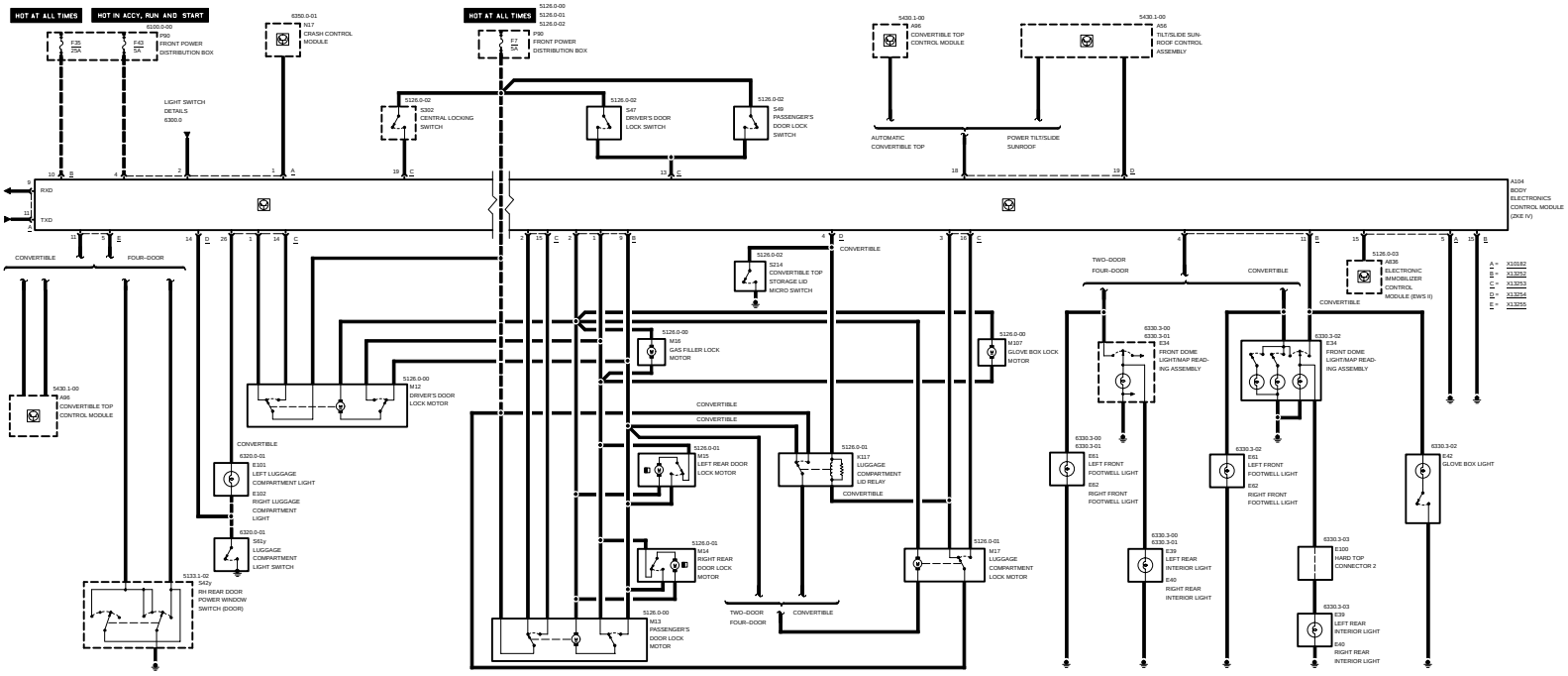


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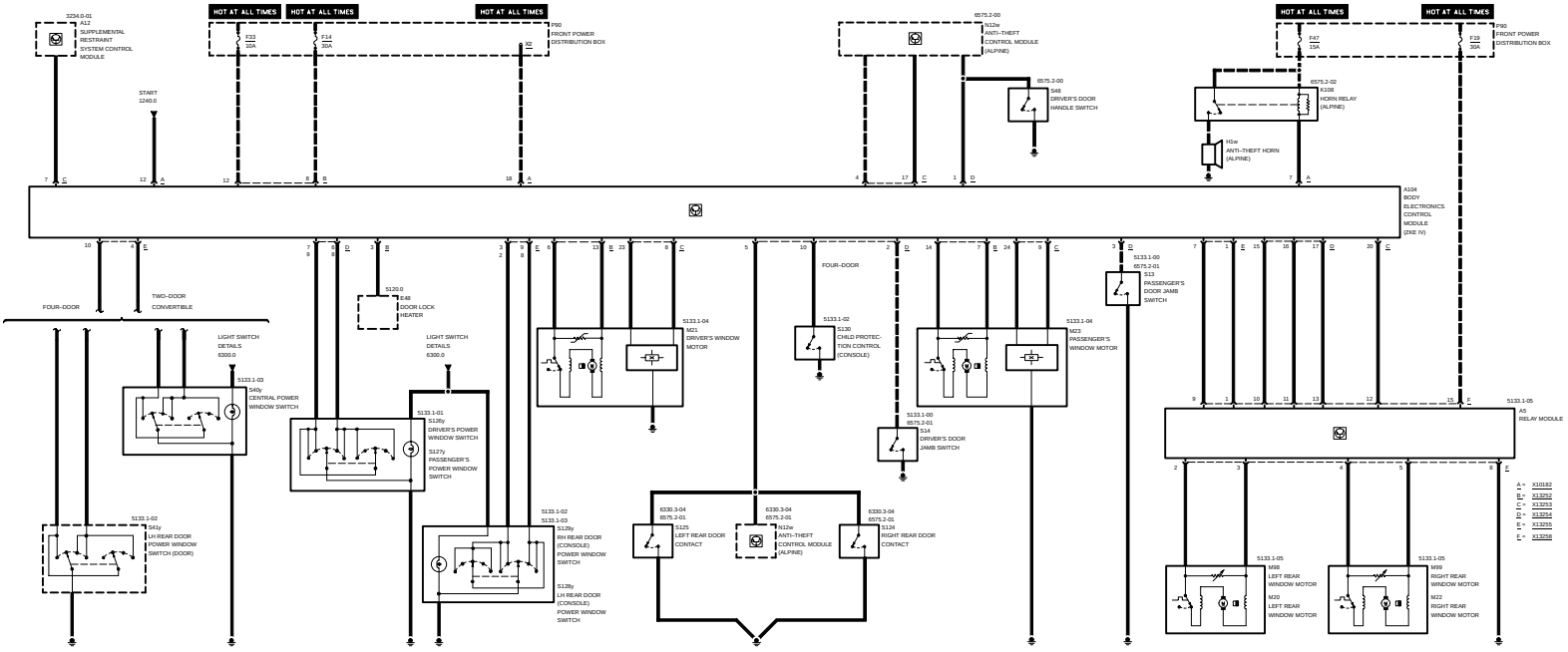
ELECTRICAL CONVERTIBLE TOP



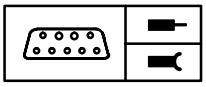
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Pin Assignments

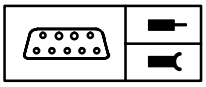
E = X10182	18 Pins, black
F = X13252	15 Pins, black
G = X13253	26 Pins, yellow
H = X13254	26 Pins, green
I = X13255	26 Pins, nature
J = X13258	15 Pins, white

X10182

Pin	Type	Description/Function	Connection
1	E	Crash signal	Crash control unit
2	E	Light signal	Light switch
3		Not used	
4	E	Voltage supply, terminal R	Front power distribution box, fuse 43
5	M	Ground	Ground
6		Not used	
7	A	Activate relay	Horn relay (Alpine)
8		Not used	
9	A	Diagnosis RxD signal	Data link connector
10		Not used	
11	E/A	Diagnosis TxD signal	Data link connector
12	E	Start signal	Starter
13		Not used	
14		Not used	
15	A	Drive-away protection	Electronic immobilizer control module (EWS II)
16		Not used	
17		Not used	
18	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

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Pin Assignments

X13252

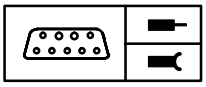
Pin	Type	Description/Function	Connection
1	E	Power lock signal	Door lock motors
2	A	Voltage supply	All lock motors
3	A	Power supply	Door lock heating
4	E	Automatic interior light signal	Interior light
5		Not used	
6	A	Voltage supply	Power window motor, driver's door
7	A	Voltage supply	Power window motor, passenger's door
8	E	Power supply	Front power distribution box, fuse 14
9	E	Lock signal	Lock motor & luggage compartment lid relay
10	E	Power supply	Front power distribution box, fuse 35
11	A	Voltage supply	Interior lights, engine compartment light, glove box light
12	E	Power supply	Front power distribution box, fuse 33
13	E	Motor signal	Power window motor, driver's door
14	E	Motor signal	Power window motor, passenger's door
15	M	Ground	Ground

X13253

Pin	Type	Description/Function	Connection
1	E	Position signal	Door lock motor, driver's door
2	E	Position signal	Door lock motor, passenger's door
3	E	Lock signal, luggage compartment lid	Luggage compartment lid lock motor, luggage compartment lid relay
4	E	Data signal	Anti-theft system control module (Alpine)
5		Not used	
6		Not used	
7	E	Crash signal	Inertia switch
8	E	Revolution signal	Power window motor, driver's door
9	E	Revolution signal	Power window motor, passenger's door

E = Input, A = Output, M = Ground

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Pin Assignments

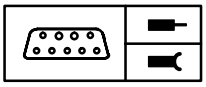
Pin	Type	Description/Function	Connection
10		Not used	
11		Not used	
12		Not used	
13	E	Central arrest signal	Door lock switches
14	E	Lock signal, driver's door	Door lock motor, driver's door
15	E	Lock signal, passenger's door	Door lock motor, passenger's door
16	E	Lock signal, luggage compartment lid	Luggage compartment lid lock motor
17	E	Data signal	Anti-theft system control module (Alpine)
18		Not used	
19	E	Central locking signal	Central locking switch
20	E/A	Data signal	Relay module
21		Not used	
22		Not used	
23	A	Plus supply (revolution)	Power window's motor, driver's side
24	A	Voltage supply (revolution)	Power window's motor, passenger's side
25		Not used	
26	A	Voltage supply	Luggage compartment lights

X13254

Pin	Type	Description/Function	Connection
1	E	Door signal	Driver's door handle switch
2	E	Door signal	Door jamb switch driver's door
3	E	Door signal	Door jamb switch passenger's door
4	E	Convertible: Luggage compartment lid signal Four-door: Door signal	Luggage compartment lid switch/luggage compartment lid relay Left rear door jump switch
5	E	Door signal	Right rear door jump switch
6	E	OPEN signal	Power window switch, driver's door
7	E	CLOSE signal	Power window switch, driver's door
8	E	OPEN signal	Power window switch, passenger's door
9	E	CLOSE signal	Power window switch, passenger's door
10	E	Four-door: child protection signal	Child protection switch

E = Input, A = Output, M = Ground

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Pin Assignments

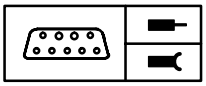
Pin	Type	Description/Function	Connection
11		Not used	
12		Not used	
13		Not used	
14	E	Luggage compartment lid signal	Luggage compartment lid switch
15	A	Data signal	Relay module
16	A	Data signal	Relay module
17	A	Data signal	Relay module
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13255

Pin	Type	Description/Function	Connection
1	A	Data signal	Relay module
2	E	OPEN signal	Left rear power window switch
3	E	OPEN signal	Right rear power window switch
4	E	Convertible: OPEN signal Four-door: OPEN signal	Main power window switch Driver's rear window switch
5	E	Convertible: Data signal Four-door: CLOSE signal	Convertible top control module Passenger's rear window switch
6		Not used	
7	A	Data signal	Relay module
8	E	CLOSE signal	Left rear power window switch
9	E	CLOSE signal	Right rear power window switch
10	E	Convertible: CLOSE signal Four-door: CLOSE signal	Main power window switch Driver's window switch

E = Input, A = Output, M = Ground

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Pin Assignments

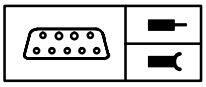
Pin	Type	Description/Function	Connection
11	E	Convertible: Data signal Four-door: OPEN signal	Convertible top control module Passenger's window switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13258

Pin	Type	Description/Function	Connection
1	E	Data signal	Central body electronic module
2	A	Voltage supply (motor)	Right rear power window motor
3	E	Signal	Right rear power window motor
4	E	Signal	Left rear power window motor
5	A	Voltage supply (motor)	Left rear power window motor
6		Not used	
7		Not used	
8	M	Ground	Ground
9	E	Data signal	Central body electronic module
10	E/A	Data signal	Central body electronic module
11	E/A	Data signal	Central body electronic module

E = Input, A = Output, M = Ground

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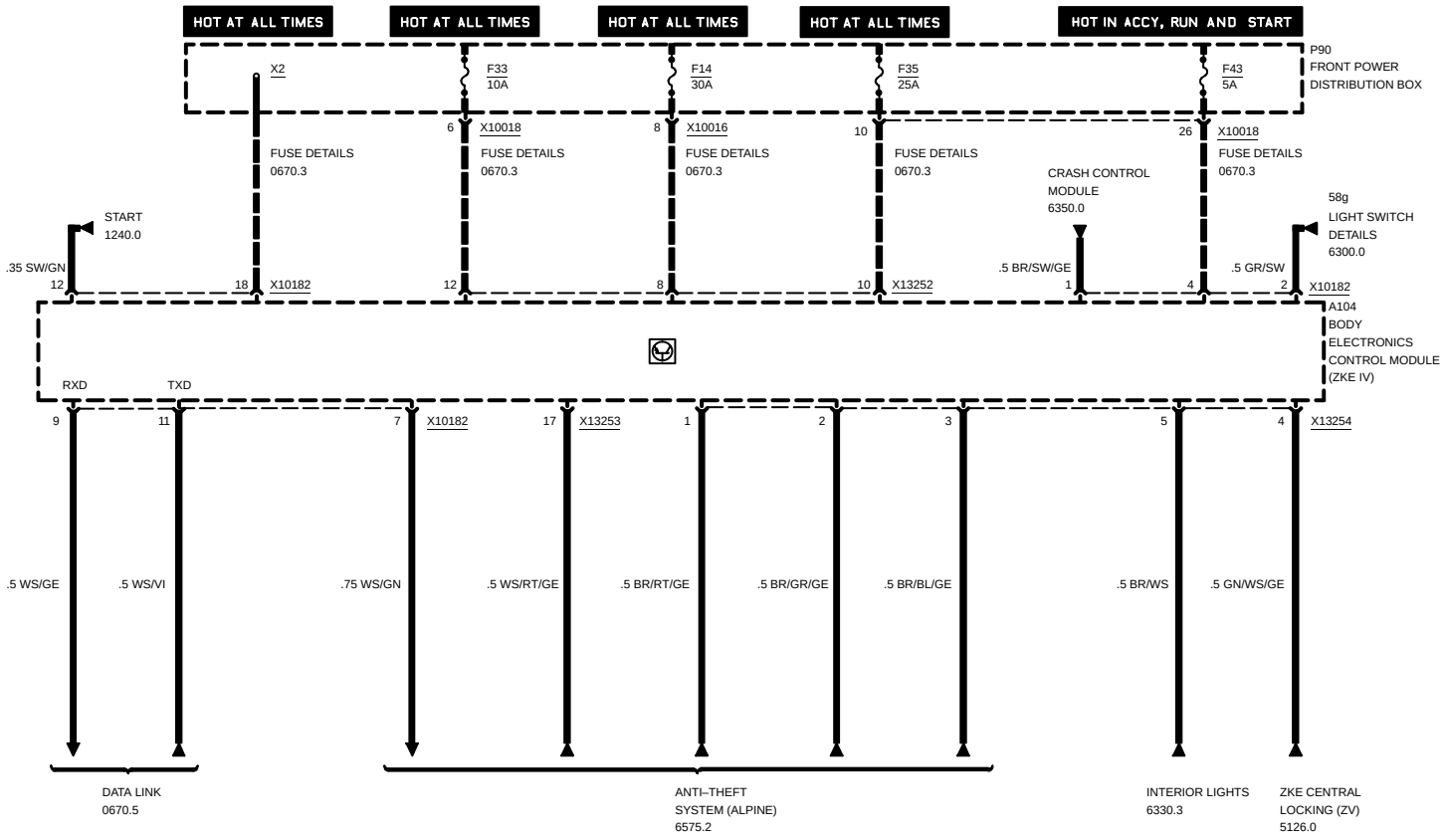
Pin Assignments

Pin	Type	Description/Function	Connection
12	E	Data signal	Central body electronic module
13	E/A	Data signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

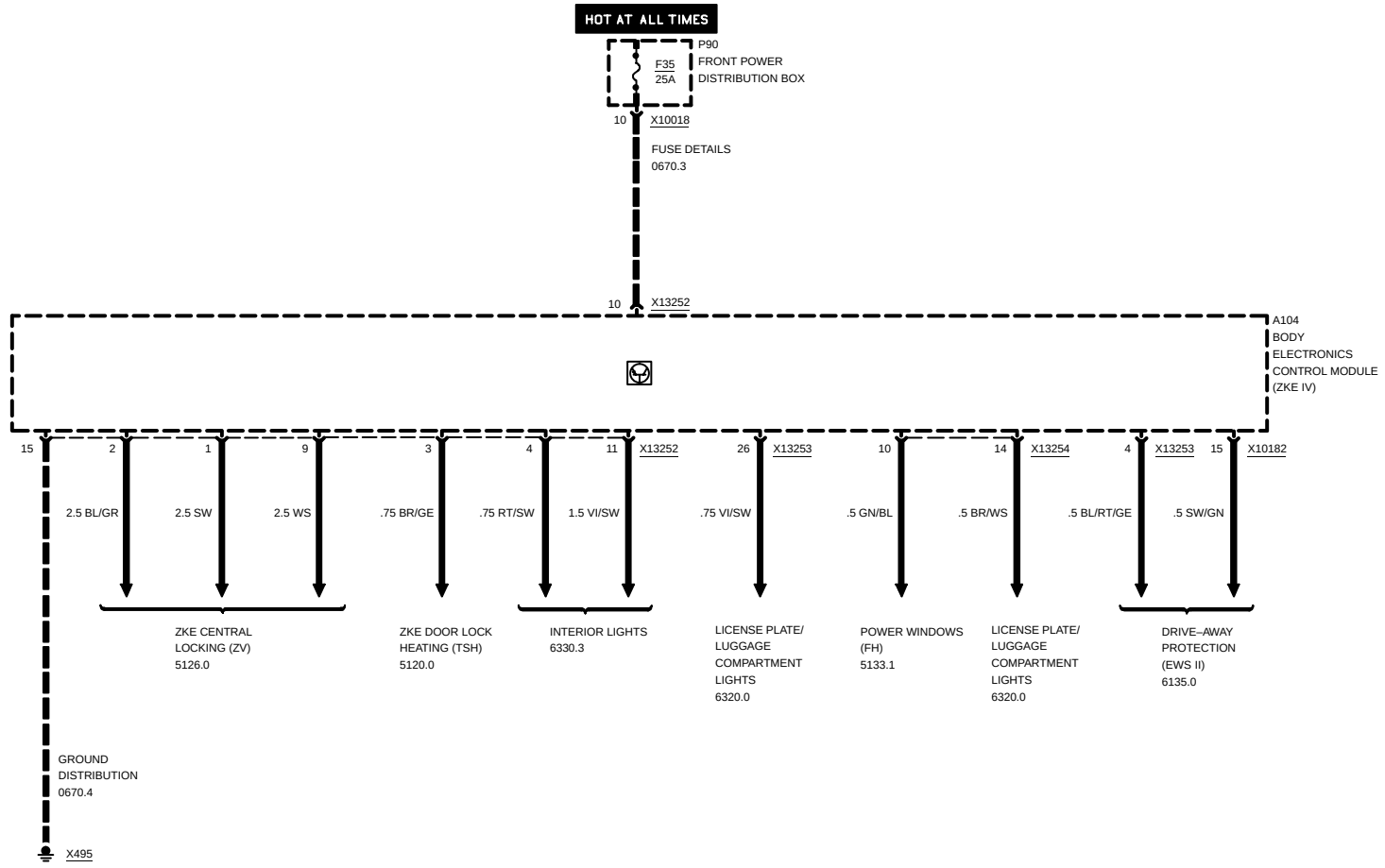
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CENTRAL BODY ELECTRONICS (ZKE IV)



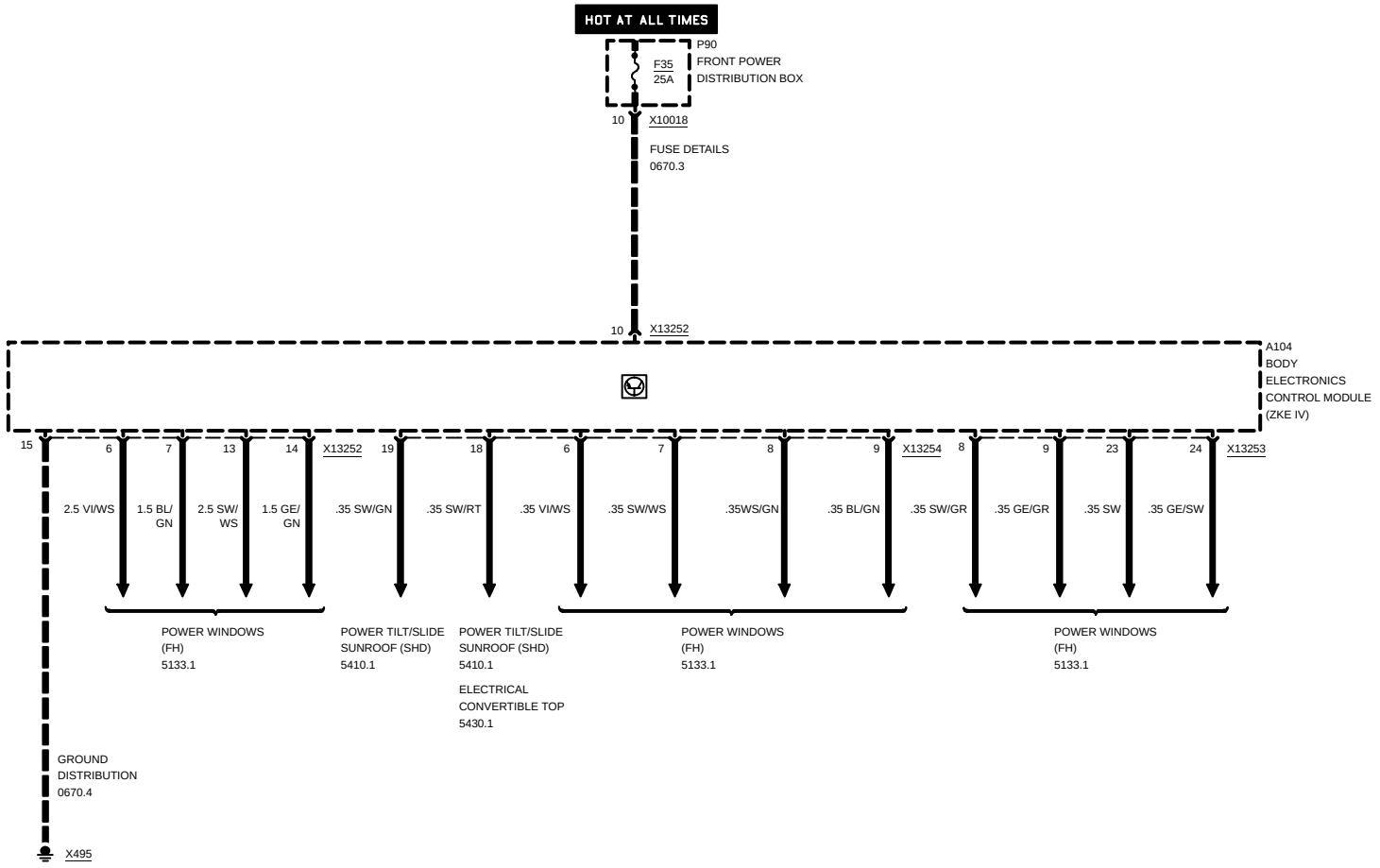
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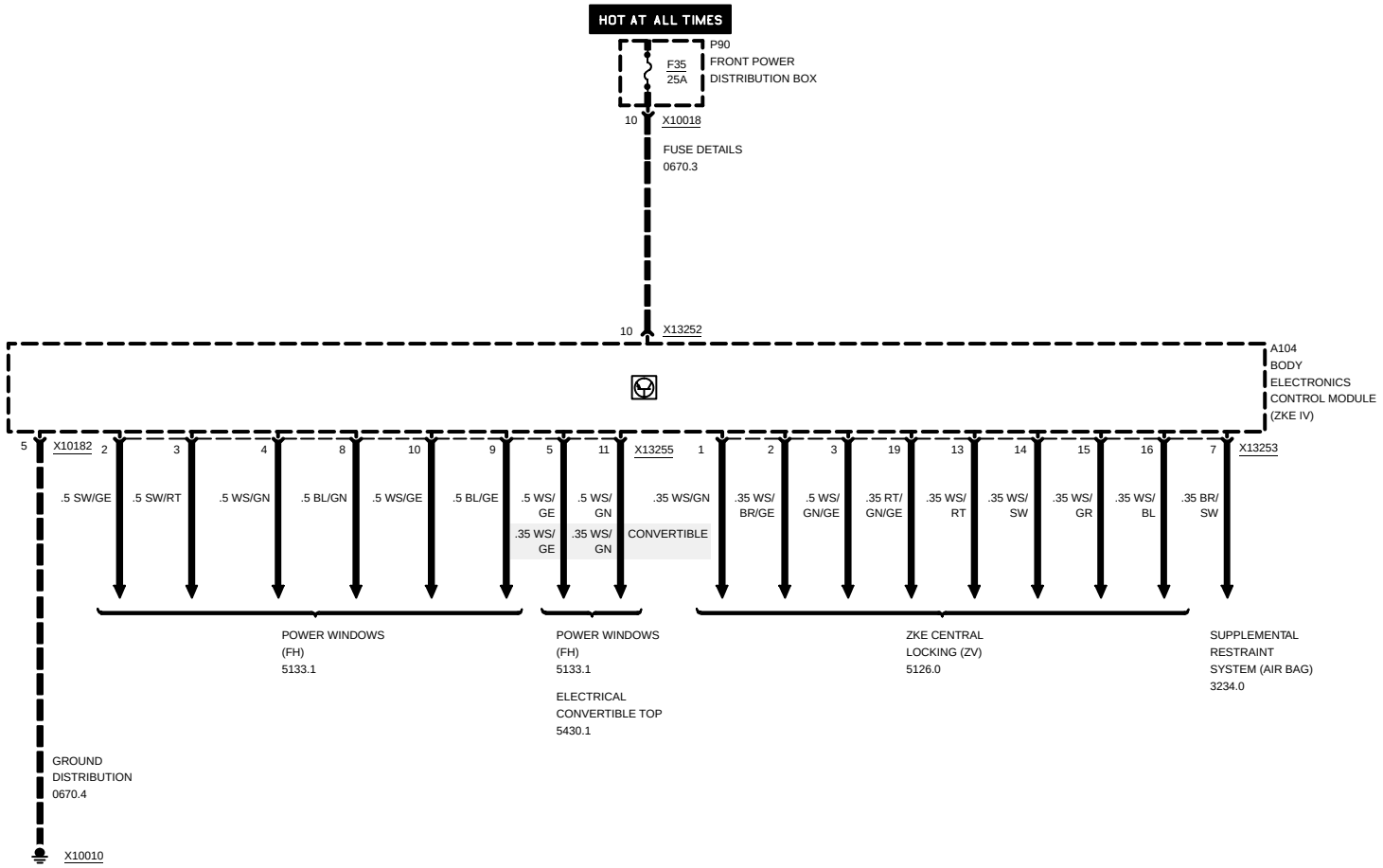
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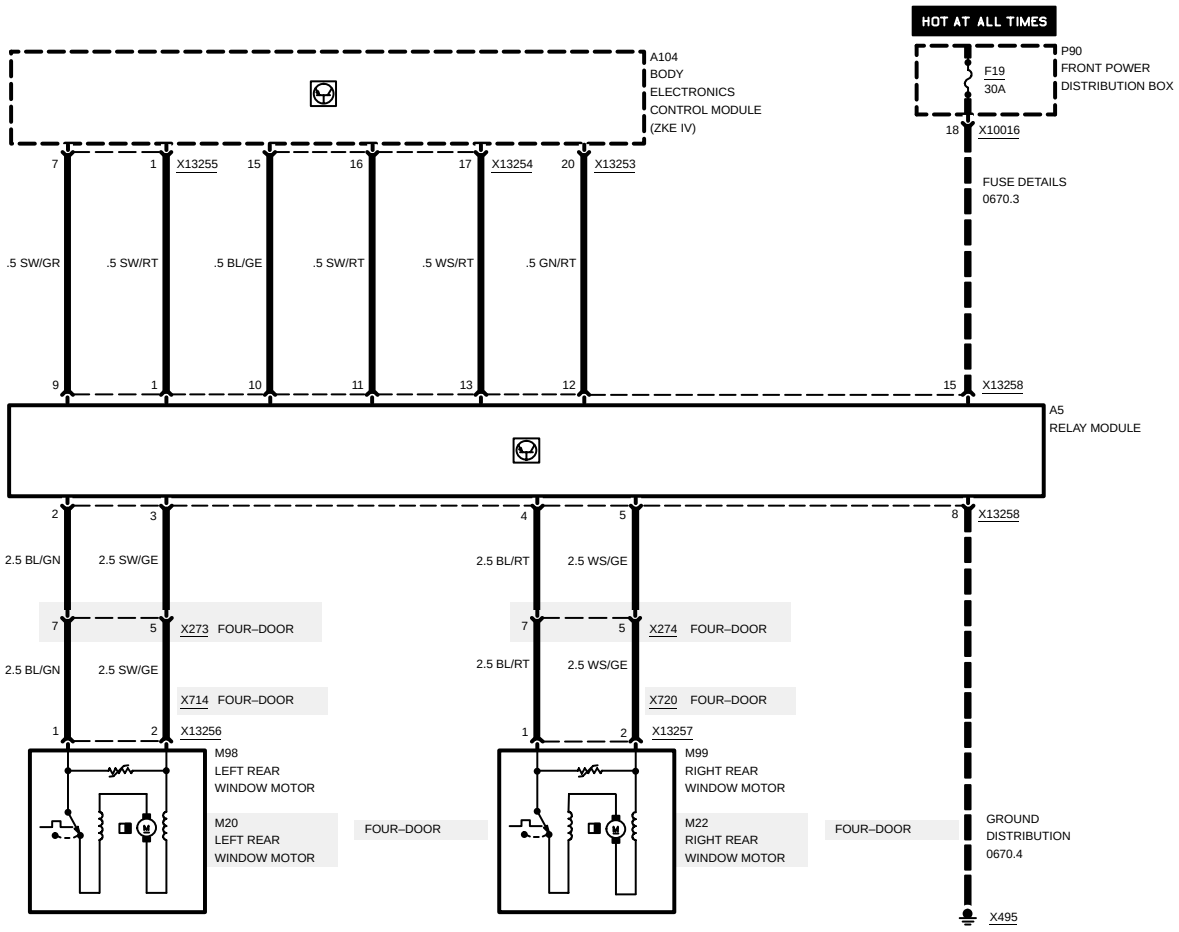
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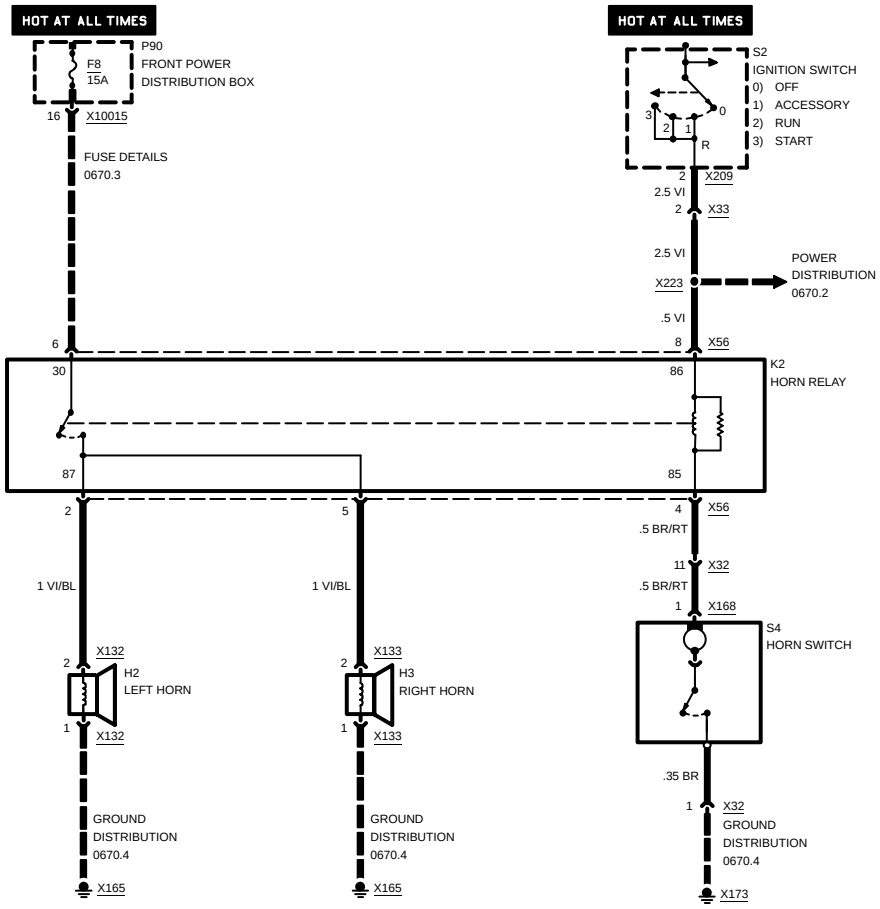
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CENTRAL BODY ELECTRONICS (ZKE IV)



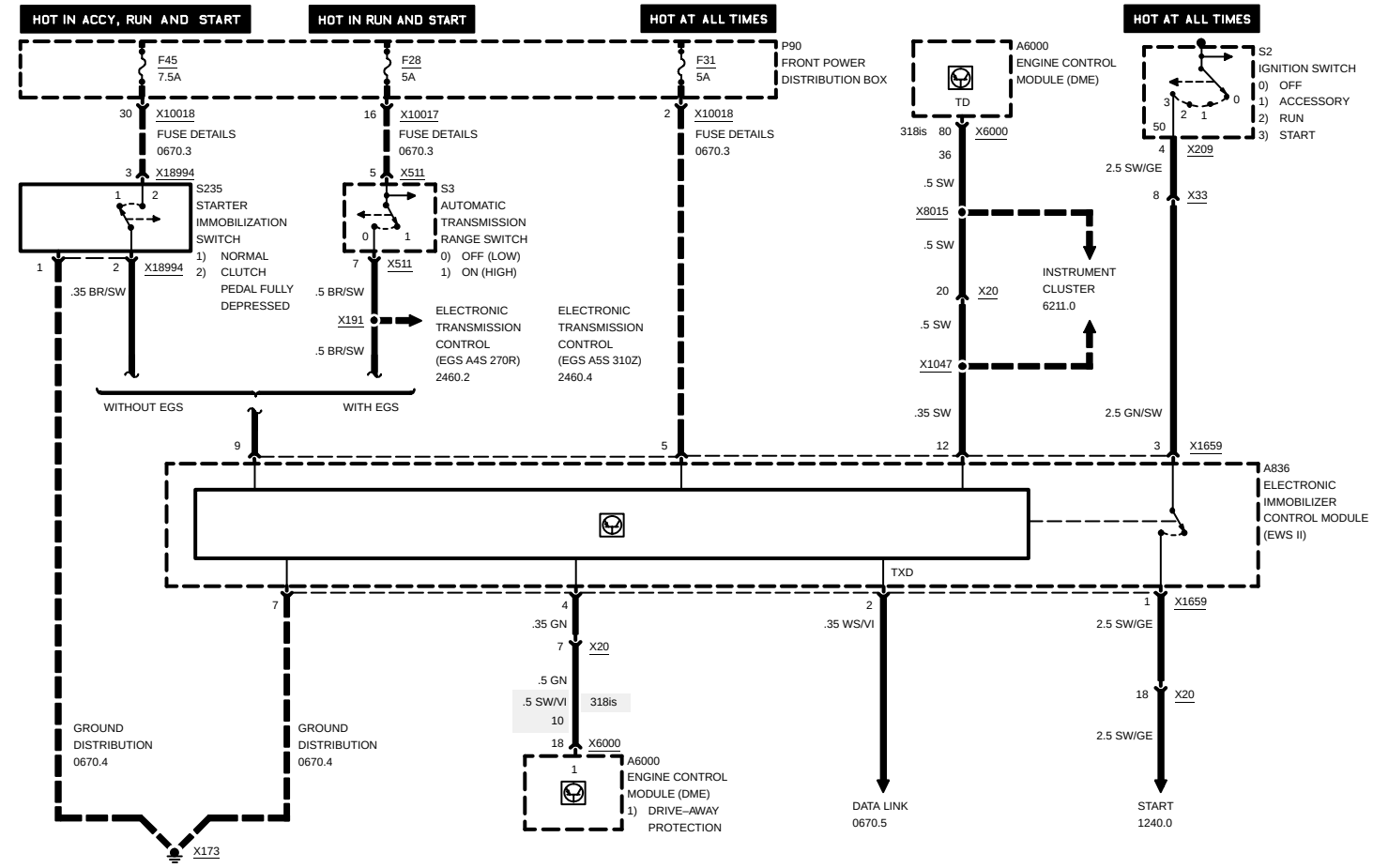
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6133.0 HORN



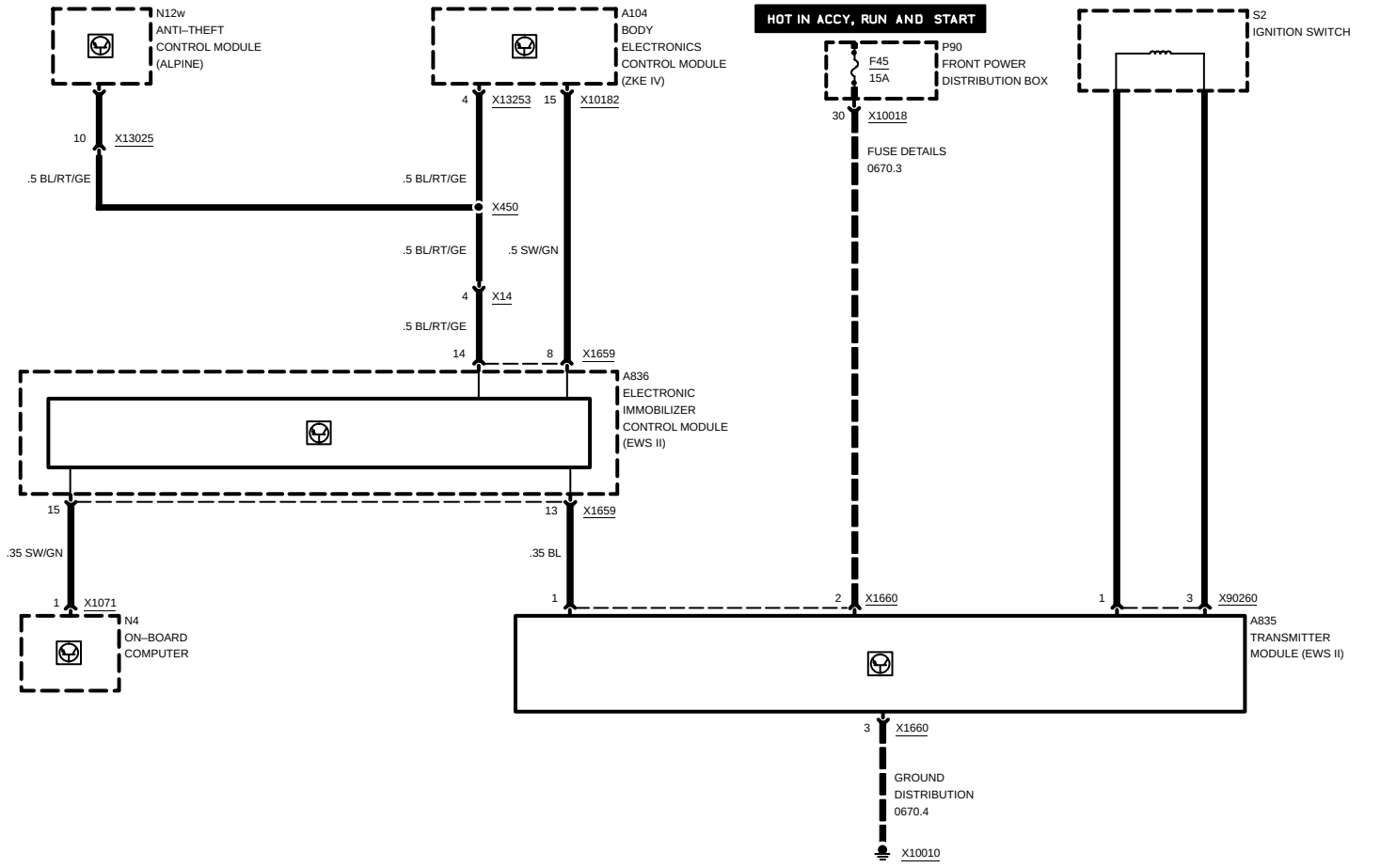
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6135.0 DRIVE–AWAY PROTECTION (EWS II)



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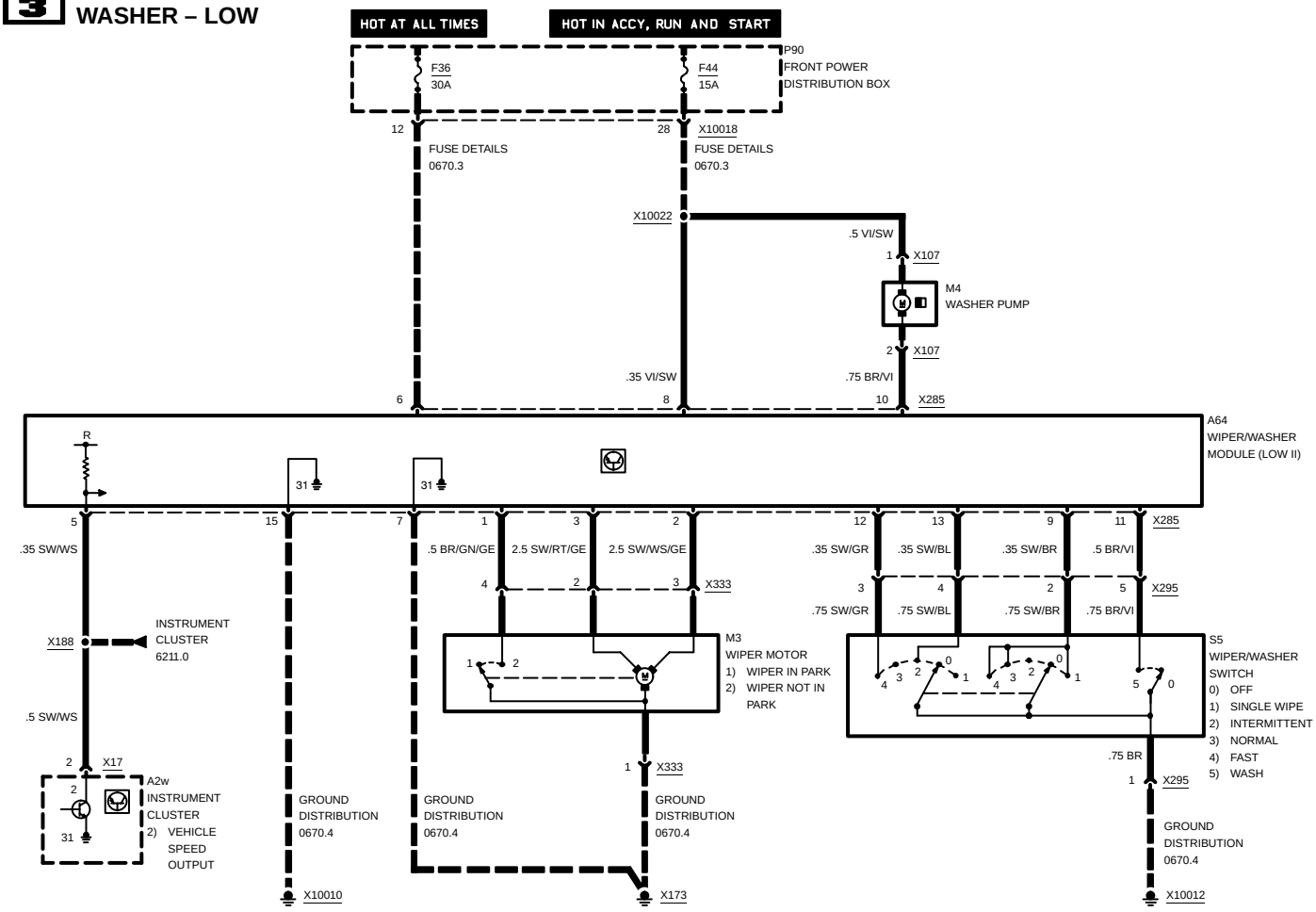
DRIVE–AWAY PROTECTION (EWS II)



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6160.1 WIPER/WASHER MODULE (WWM)

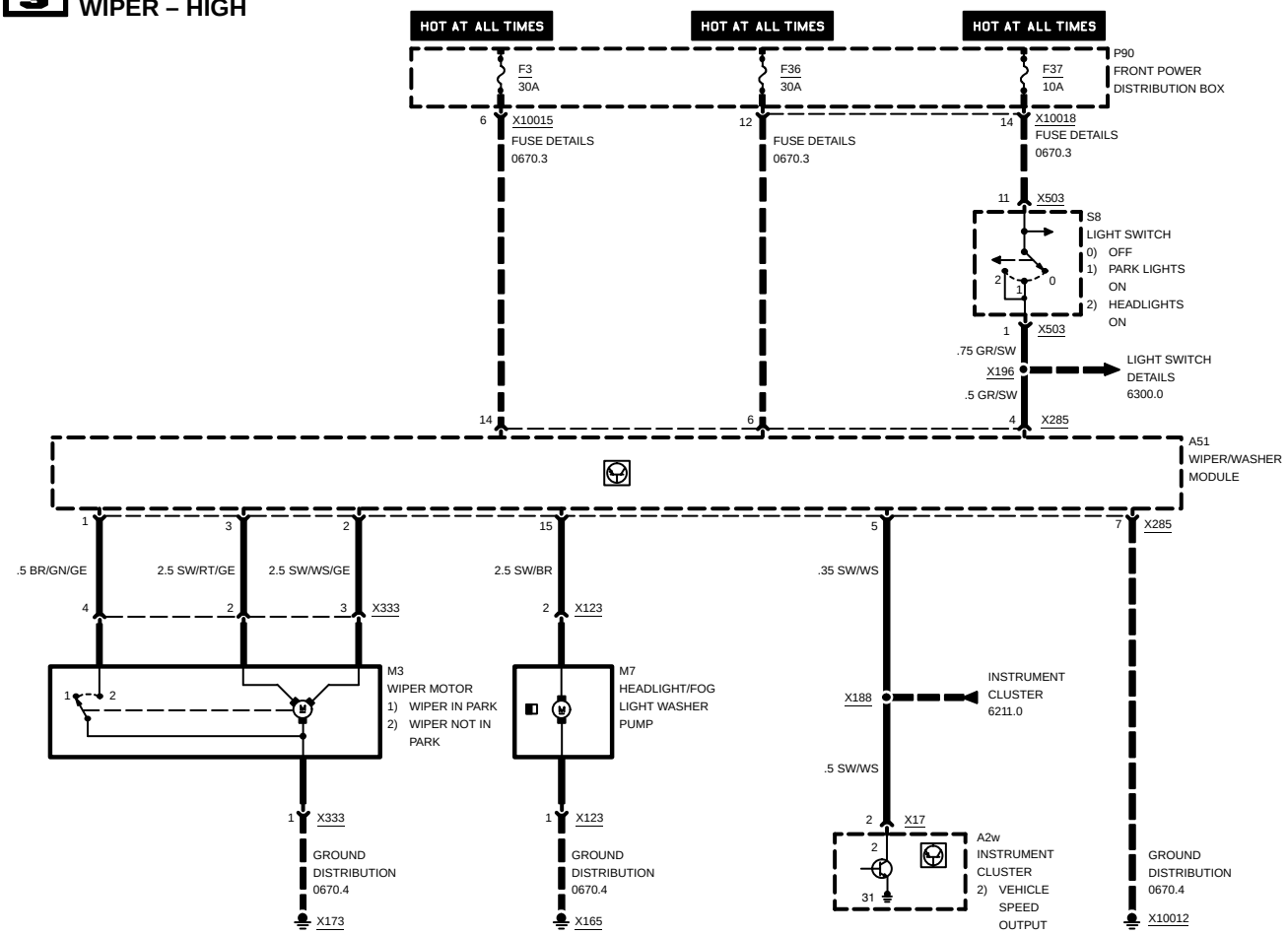
WASHER – LOW



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WIPER/WASHER MODULE (WWM)

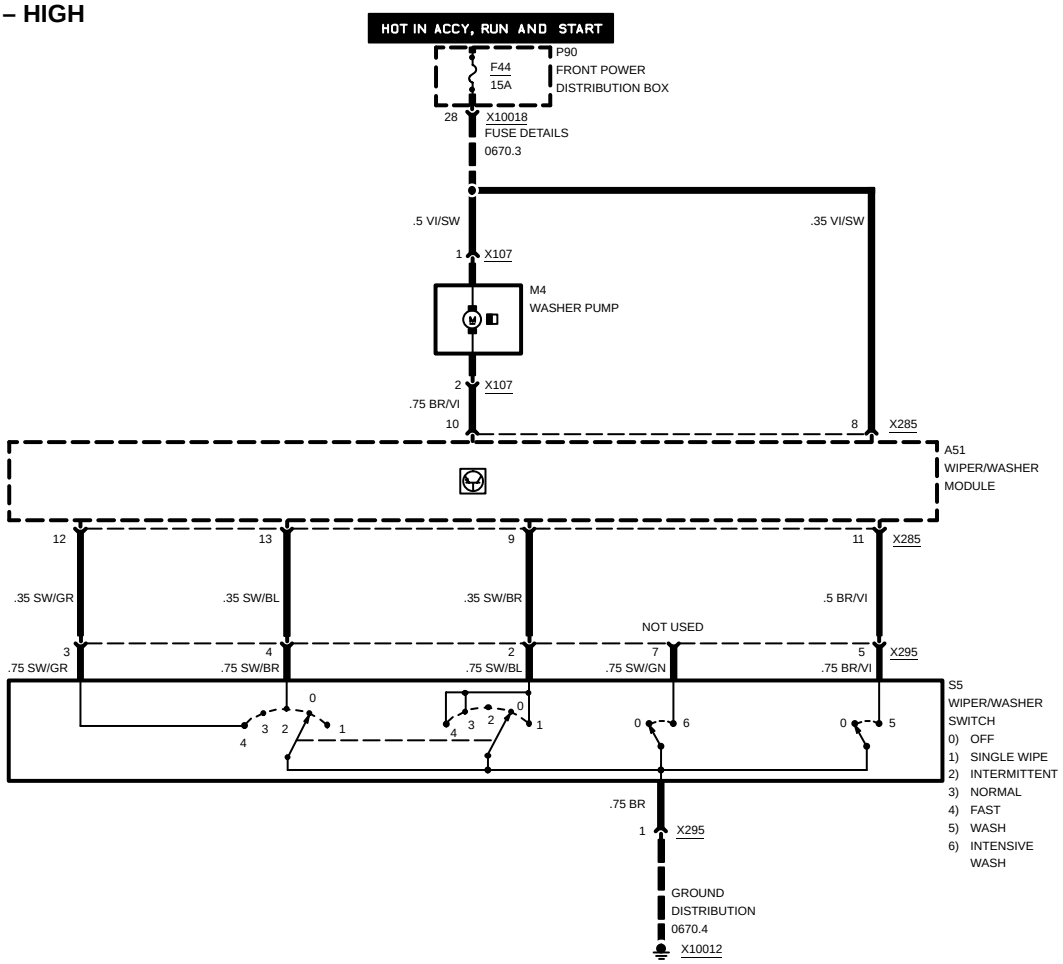
WIPER – HIGH



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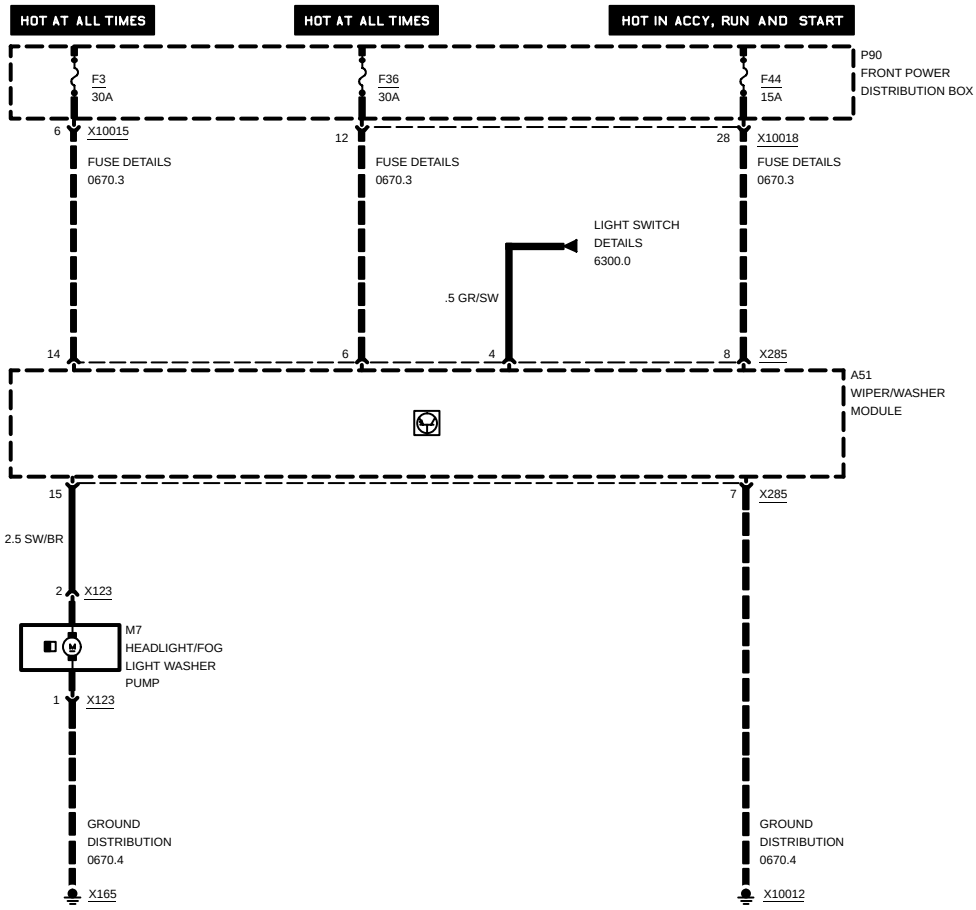
WIPER/WASHER MODULE (WWM)

WASHER – HIGH



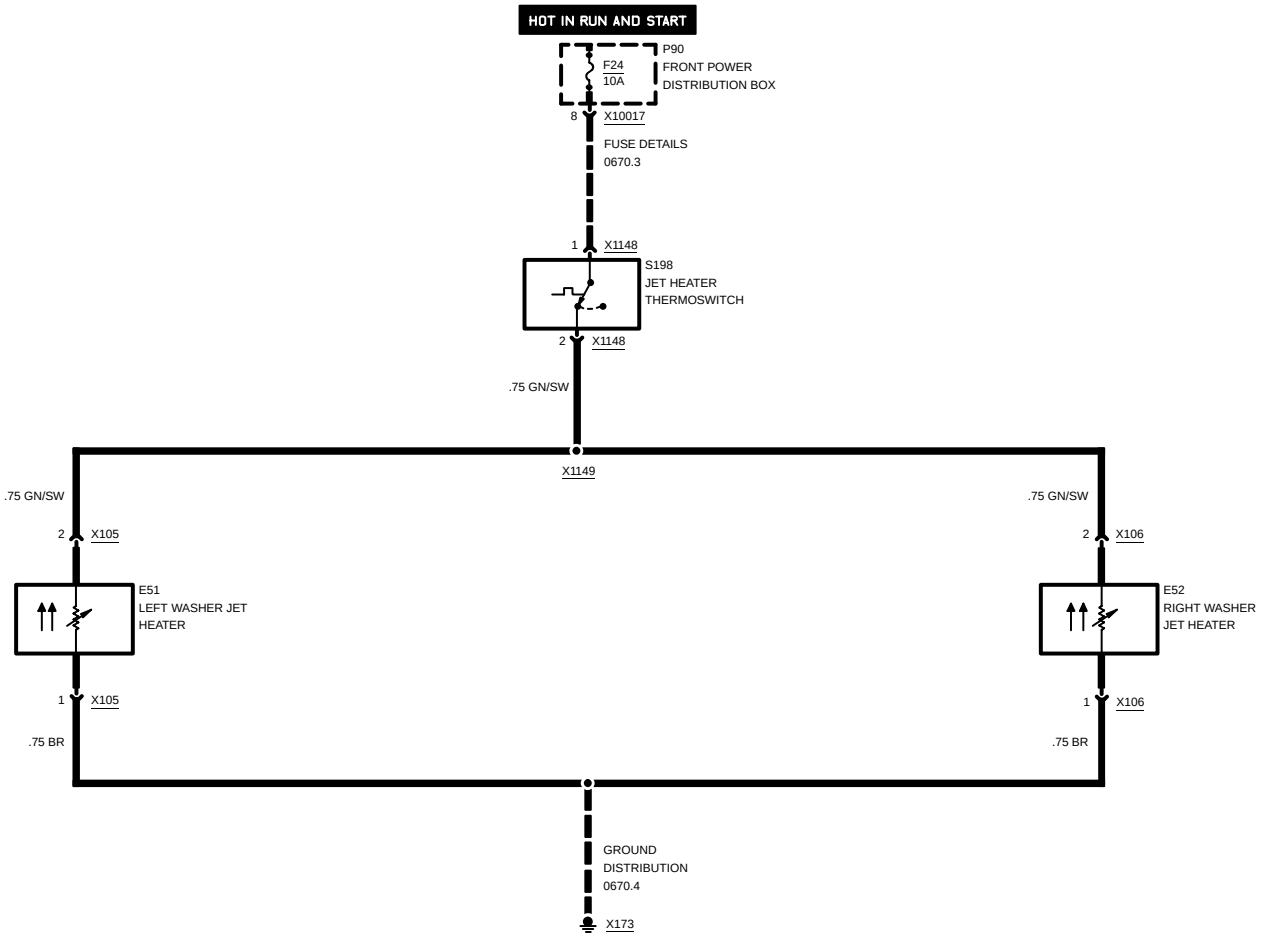
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6167.1 HEADLIGHT WASHER (SRA)

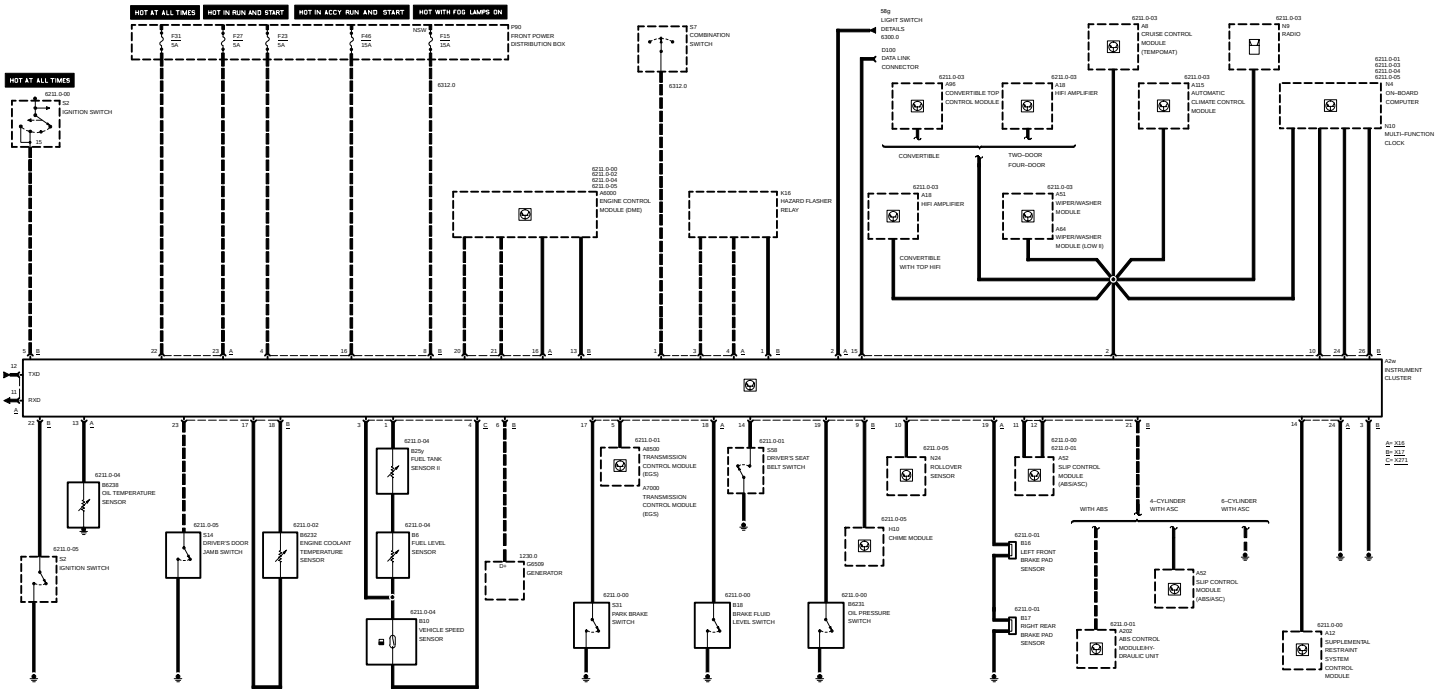


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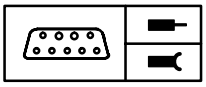
6169.0 WINDSHIELD WASHER JET HEATERS



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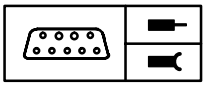
Pin Assignments

X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instrument illumination power	Dimmer
3	E	Right turn signal indicator control	Hazard flasher relay
4	E	Left turn signal indicator control	Hazard flasher relay
5	E	Warning lamp for EGS fault (information signal transmission oil temperature)	Transmission control module (EGS)
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10	E	Convertible: Rollover signal	Rollover sensor
11	A	RxD diagnostic data link	Data link connector
12	E/A	TxD diagnostic data link	Data link connector
13	E	Oil temperature	Engine oil temperature sensor
14	E	Airbag warning lamp (SRS) control	Supplemental restraint system control module
15		Not used	
16	E	“Check engine” indicator control	Engine control module (DME)
17	E	Park brake warning lamp control	Park brake switch
18	E	Brake fluid warning lamp control	Brake fluid level switch
19	E	Brake pad wear warning lamp control	Brake pad sensors
20	E	Crankshaft RPM speed signal TD	Engine control module (DME)
21	E	Fuel consumption signal + KVA	Engine control module (DME)
22	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
23	E	Voltage supply, terminal 15 for indicator and warning lamps	Front power distribution box, fuse 27
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground point
25		Not used	
26		Not used	

E = Input, A = Output, M = Ground

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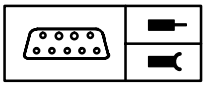
Pin Assignments

X17

Pin	Type	Description/Function	Connection
1	E	Trailer turn signal indicator control	Hazard flasher relay
2	A	Vehicle speed signal	Various control modules
3	M	Ground supply, terminal 31 for indicator and warning lamps	Ground point
4	E	Voltage supply, terminal 15 for instrument cluster electronics	Front power distribution box, fuse 23
5	E	Voltage supply, terminal 15 for battery charge indicator	Ignition switch, terminal 15
6	E	Ground supply, terminal 61 for battery charge indicator	Generator
7		Not used	
8	E	Fog light indicator control	Front power distribution box, fuse 15
9	A	Sound tone signal	Chime module
10	A	Information signal, fuel tank content	On-board computer
11	E	Slip control system warning lamp (ABS) control	Slip control module (ABS) (323i, 328i, M3)
12	E	ASC signal	ASC control module
13	A	TI-measurement signal (fuel consumption)	Engine control module (DME)
14	E	Seat belt warning lamp control	Driver’s seat belt switch
15	E	S/A reset/service interval indicator reset	Data link connector
16	E	Voltage supply, terminal R	Front power distribution box, fuse 46
17	A	Coolant temperature sensor	Coolant temperature sensor
18	E	Coolant temperature sensor	Coolant temperature sensor
19	E	Oil pressure warning lamp control	Oil pressure switch
20		Not used	
21	E	Ground	Ground point (with ASC)
21	E	Slip control system warning lamp (ABS) control	Slip control module (ABS/ASC) (323i, 328i, M3) ABS control module (ABS)
22	E	Ignition key warning/audible ignition key warning	Ignition switch
23	E	Driver’s door open	Driver’s door jamb switch

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
24	A	Dimmer signal/brightness information signal for connected control modules	On-board computer or multi-function clock
25		Not used	
26	E	Central indicator lamp/check-control	On-board computer or multi-function clock

X271

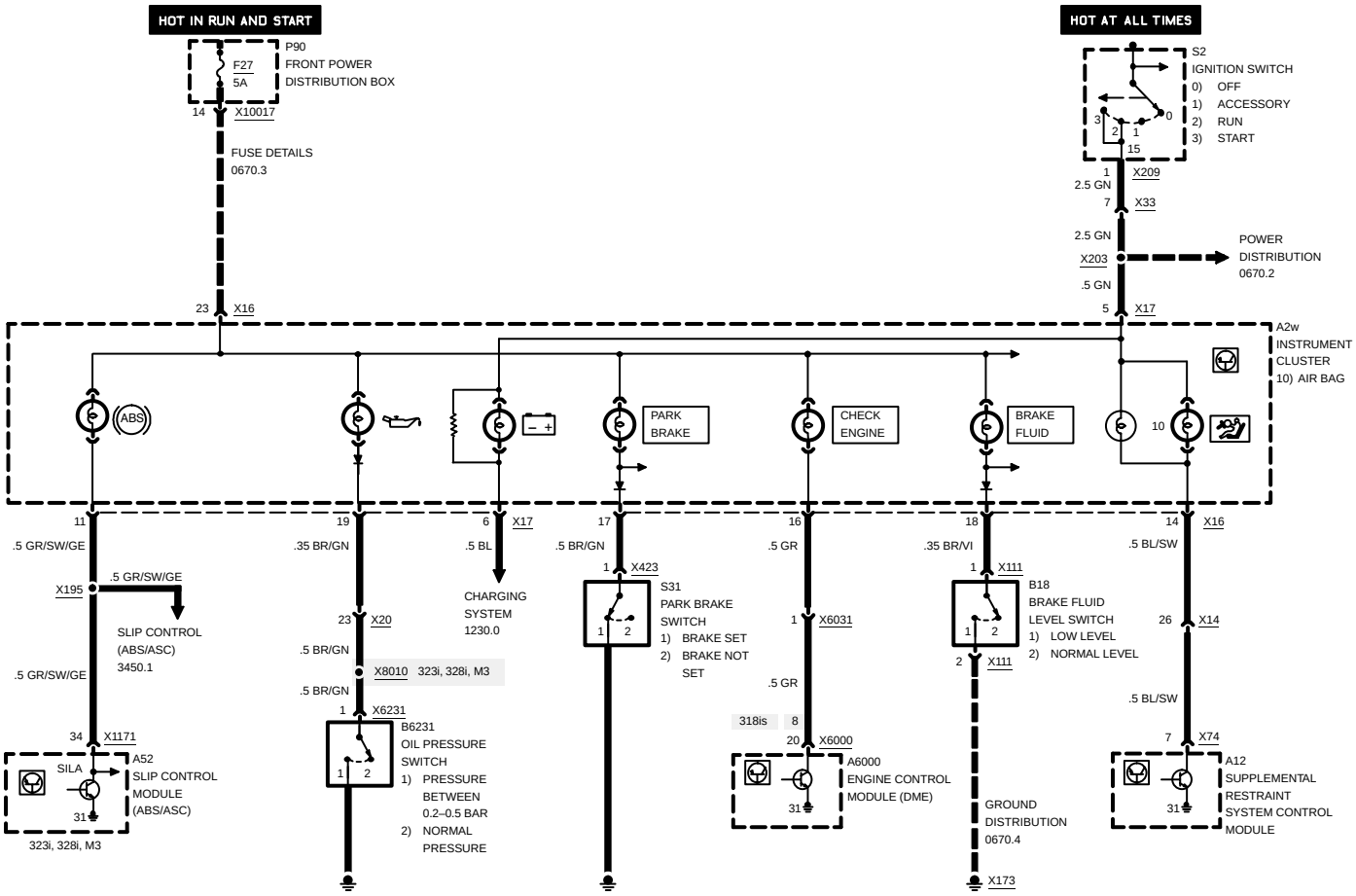
Pin	Type	Description/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensors and vehicle speed sensor	Fuel tank sensors and vehicle speed sensor
4	E	Position signal TW	Vehicle speed sensor
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	

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INSTRUMENT CLUSTER

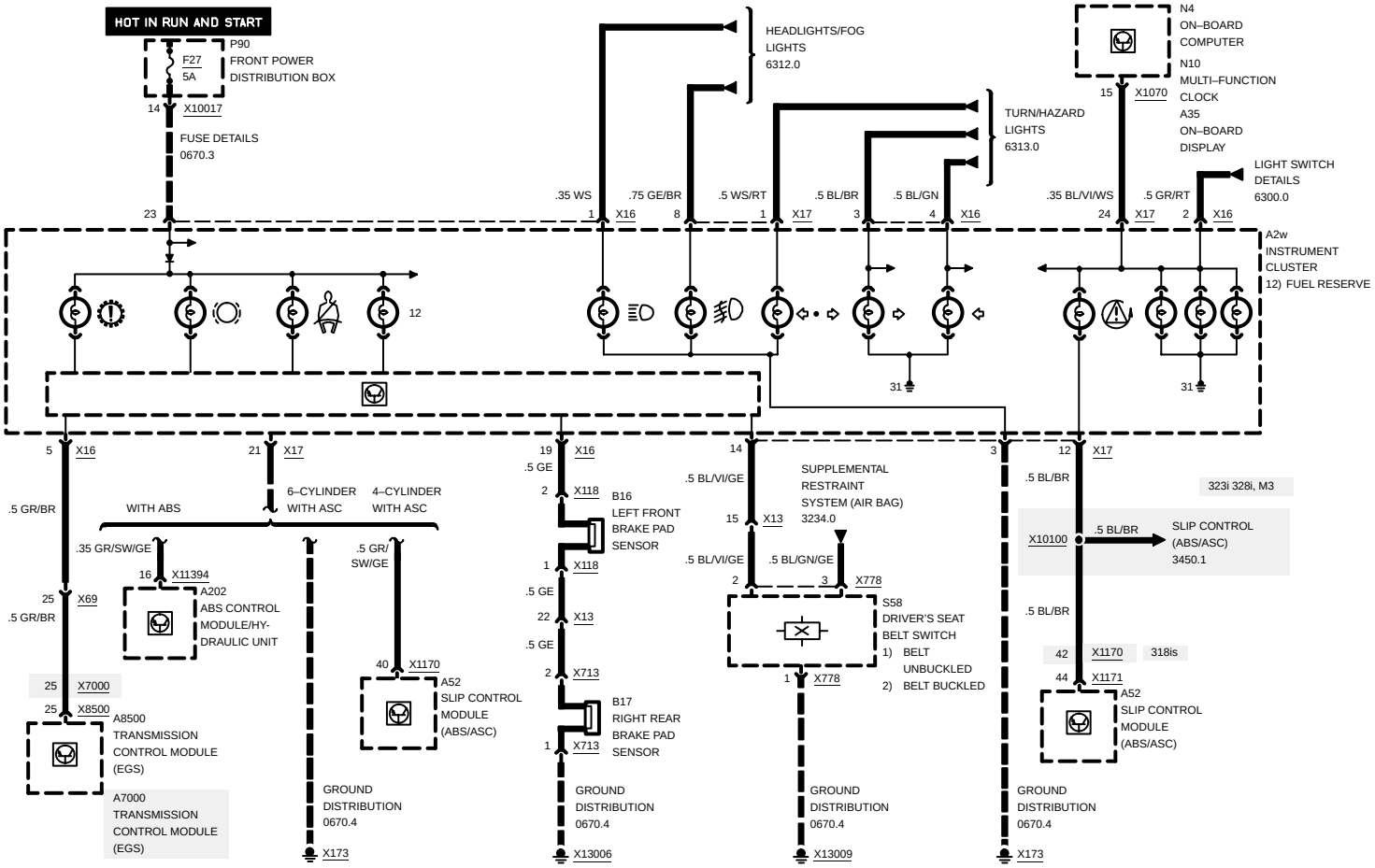
INDICATORS



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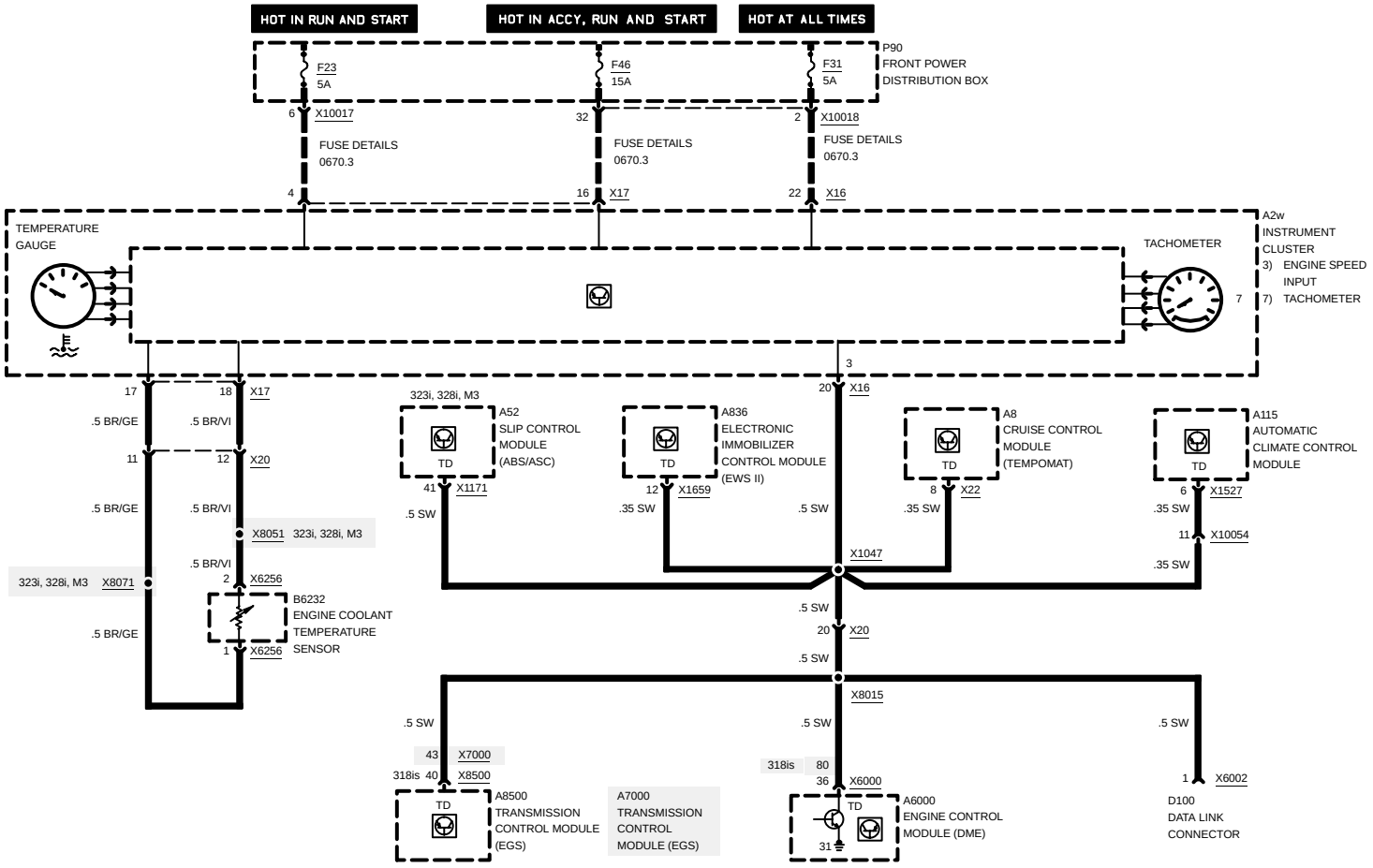
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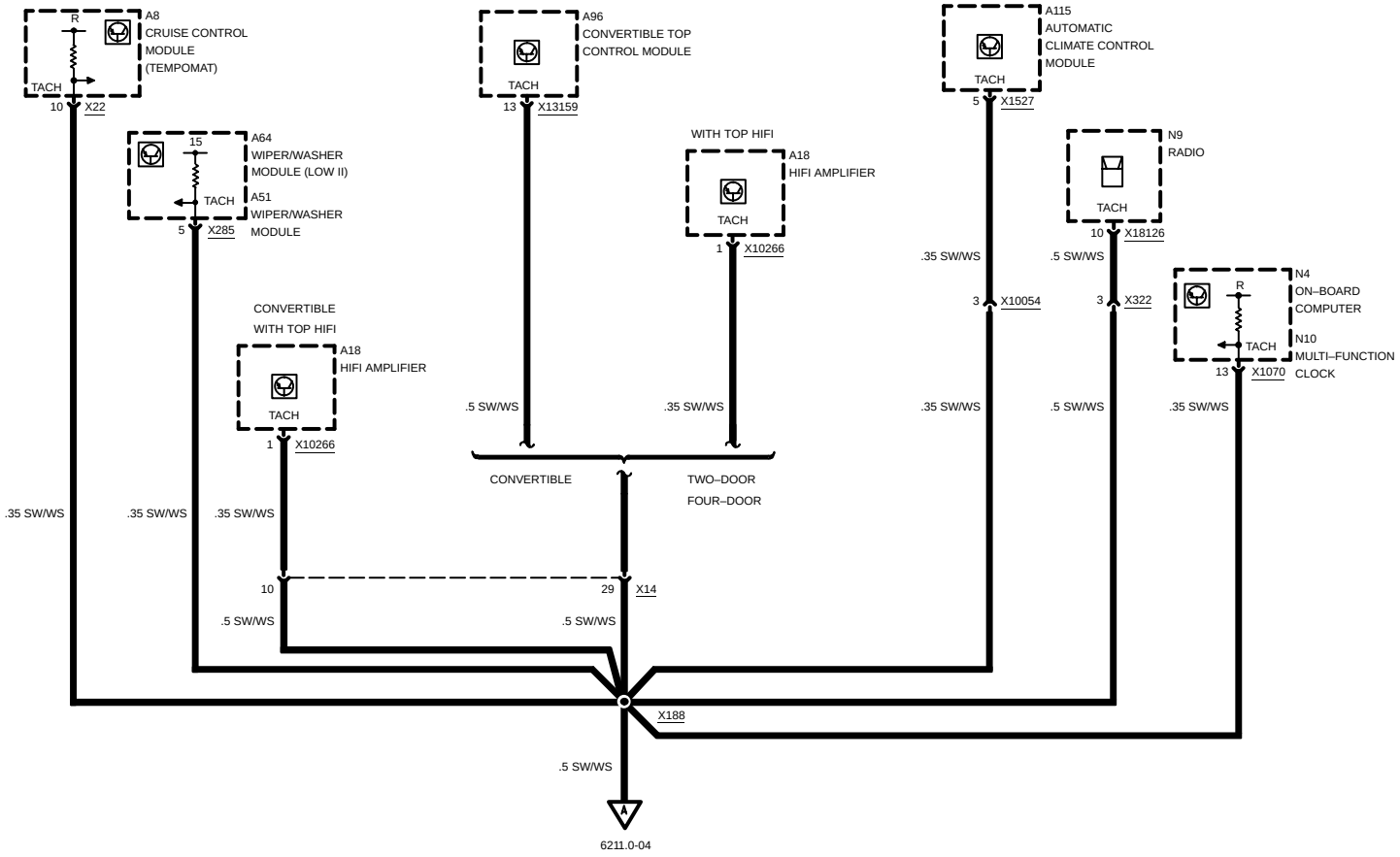
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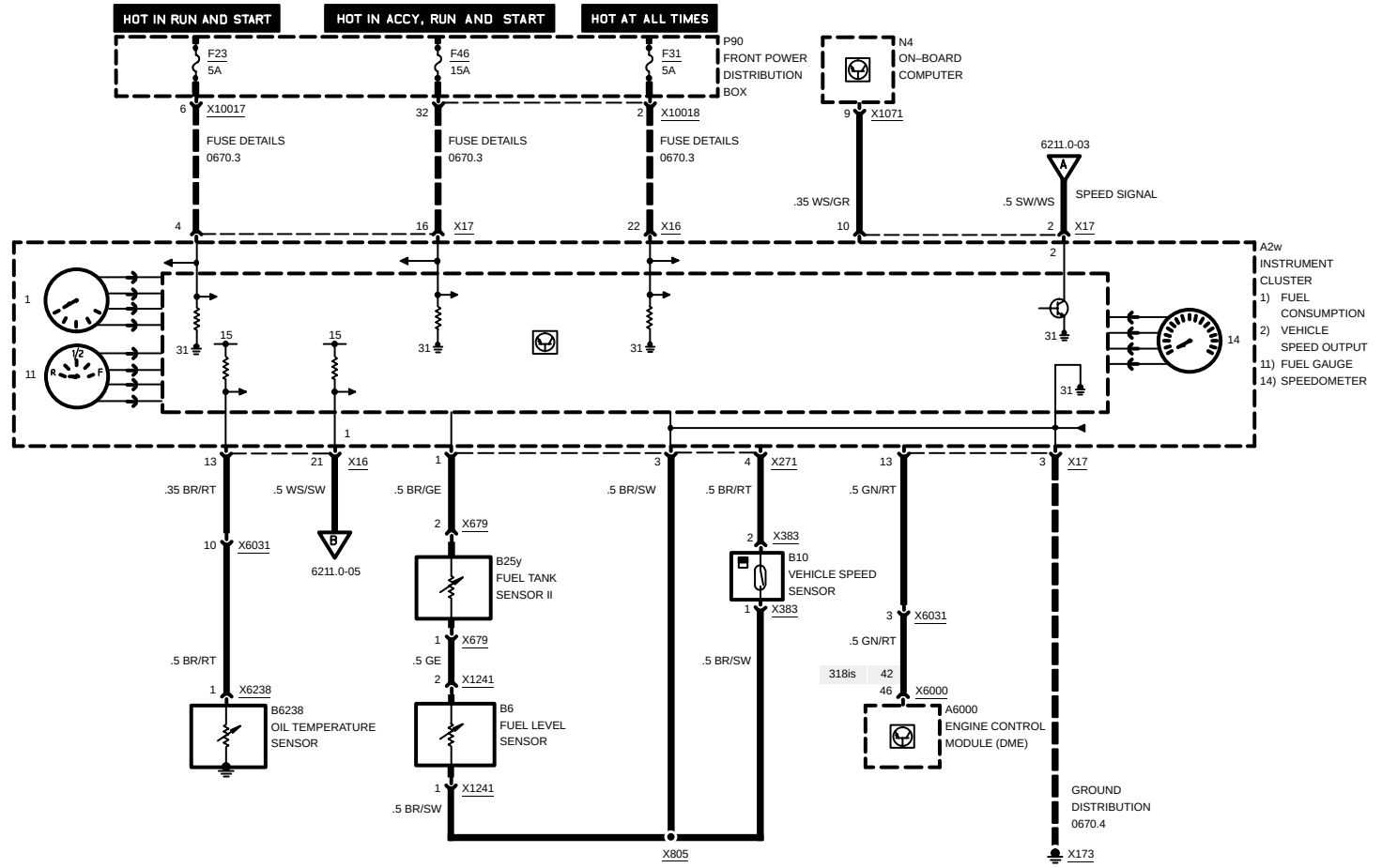
SIGNAL–OUTPUT SPEEDOMETER



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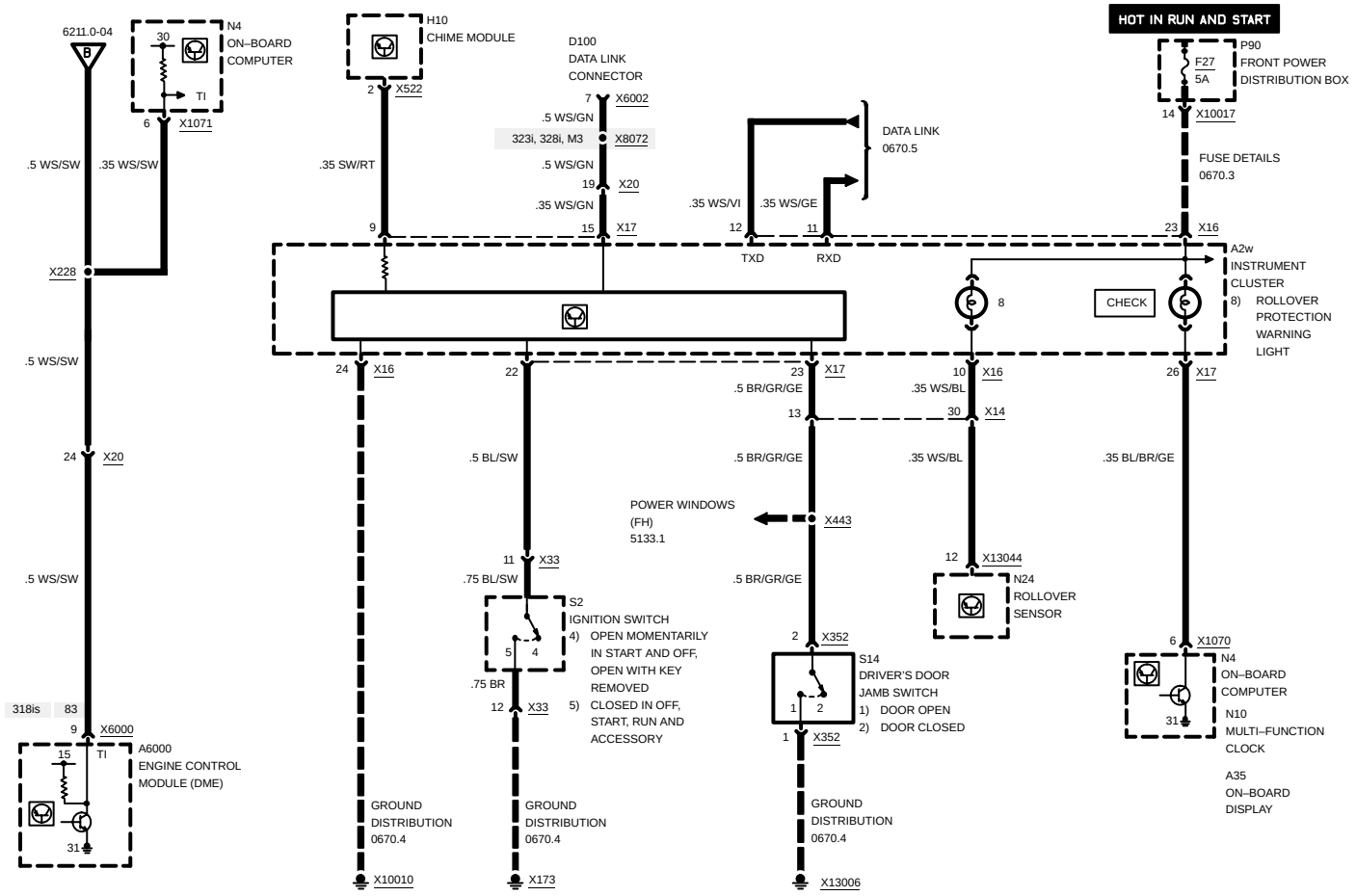
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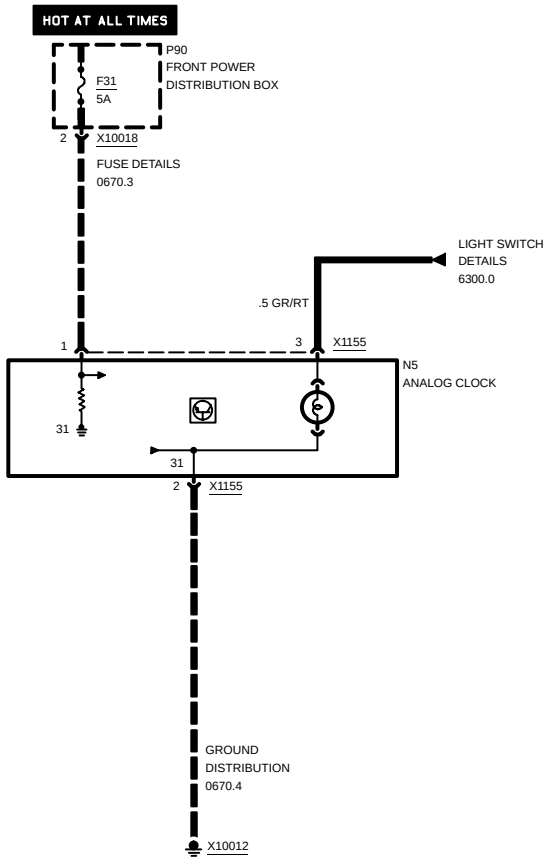
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INDICATORS



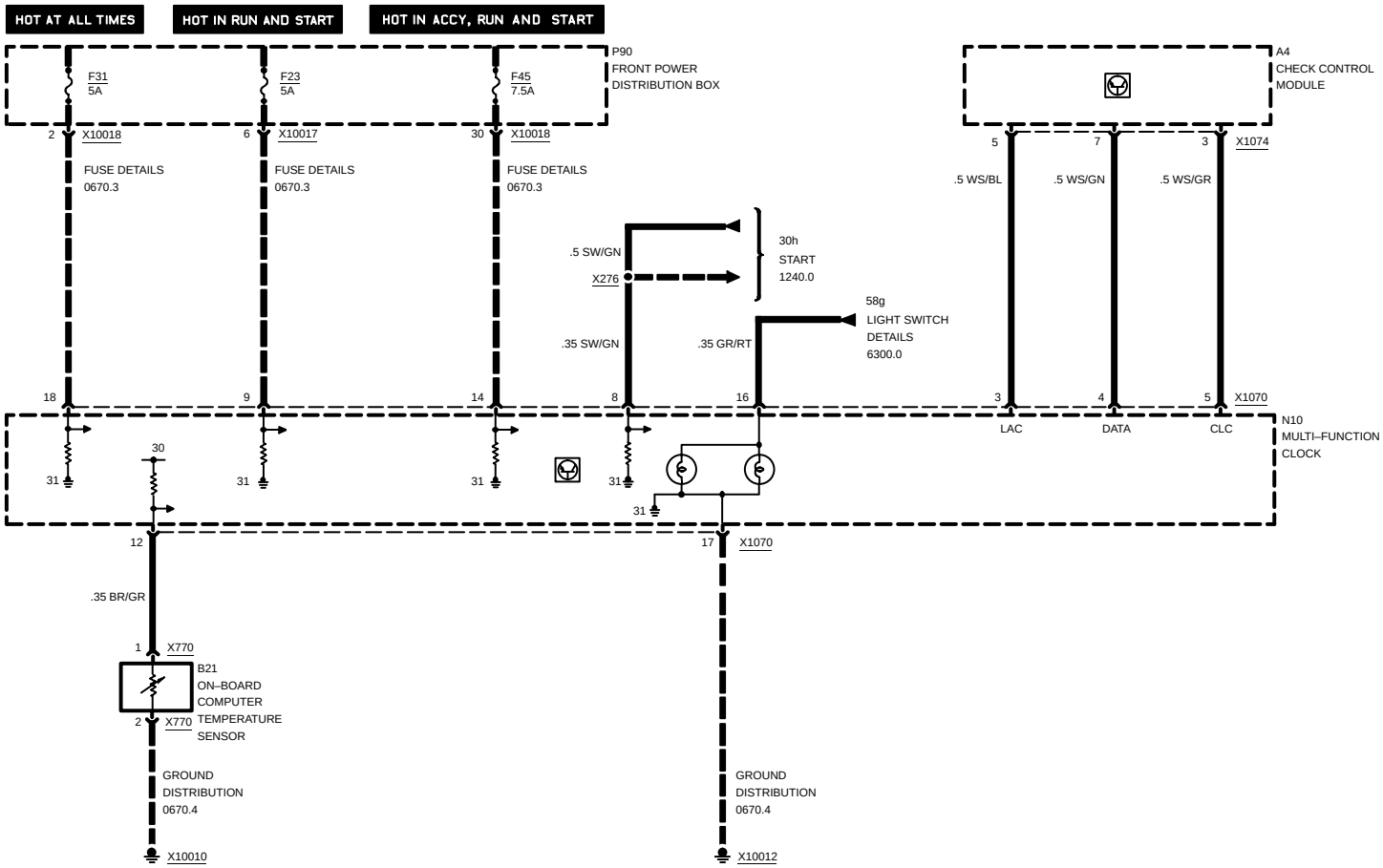
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6213.1 ANALOG CLOCK



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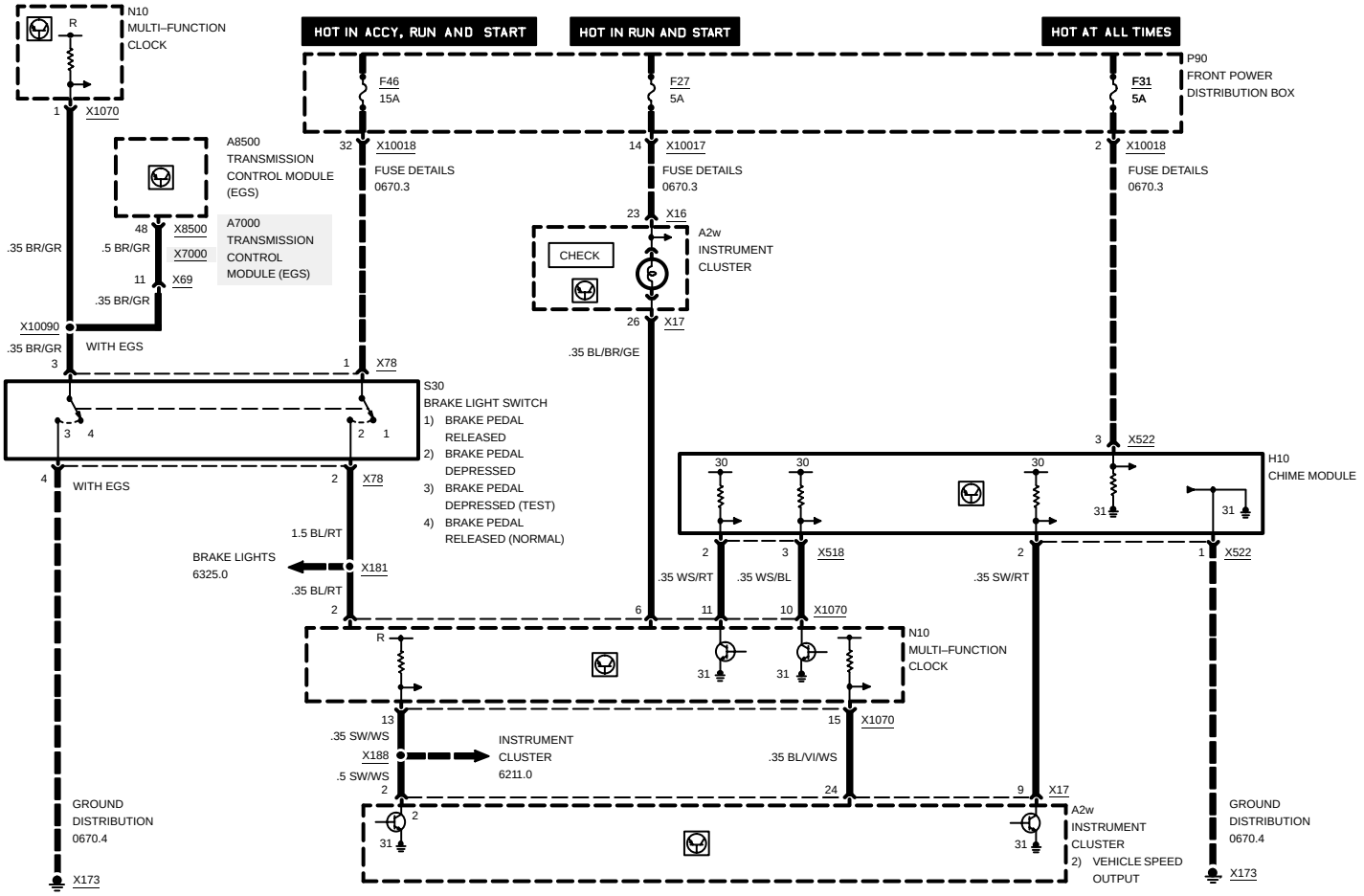
6213.2 MULTI–FUNCTION CLOCK



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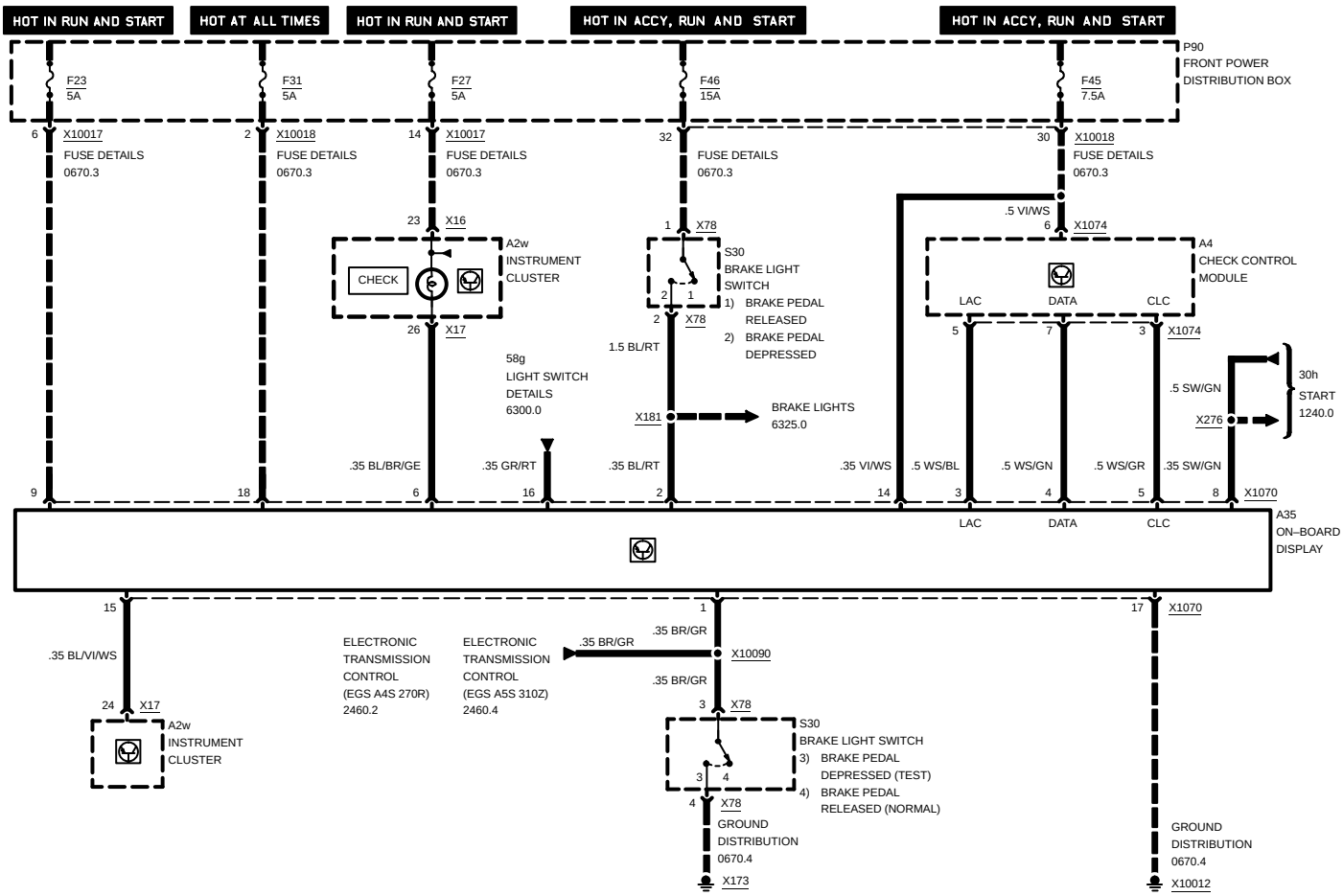
MULTI–FUNCTION CLOCK

CHIME, BRAKE LIGHT SWITCH



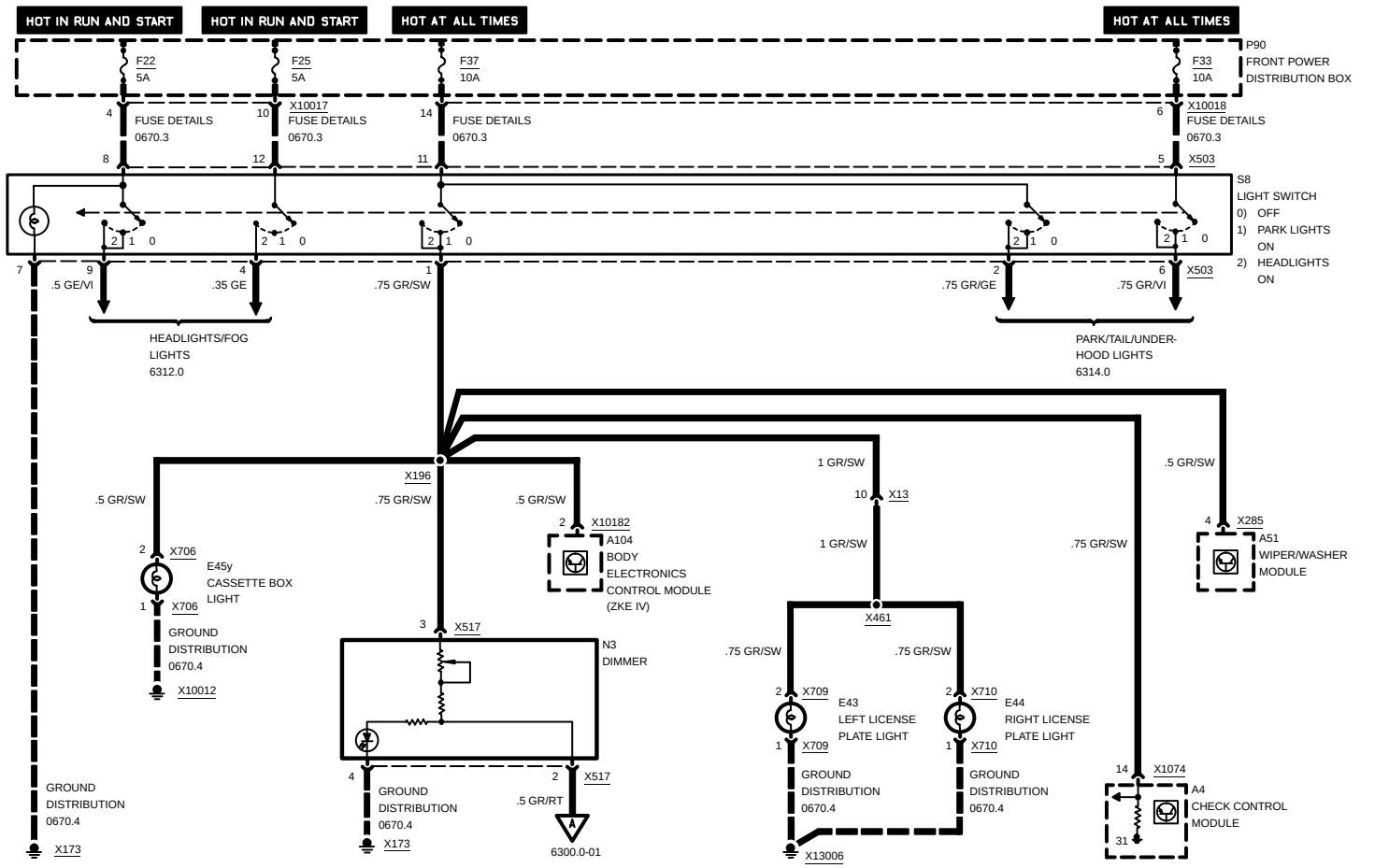
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6214.0 ON–BOARD DISPLAY



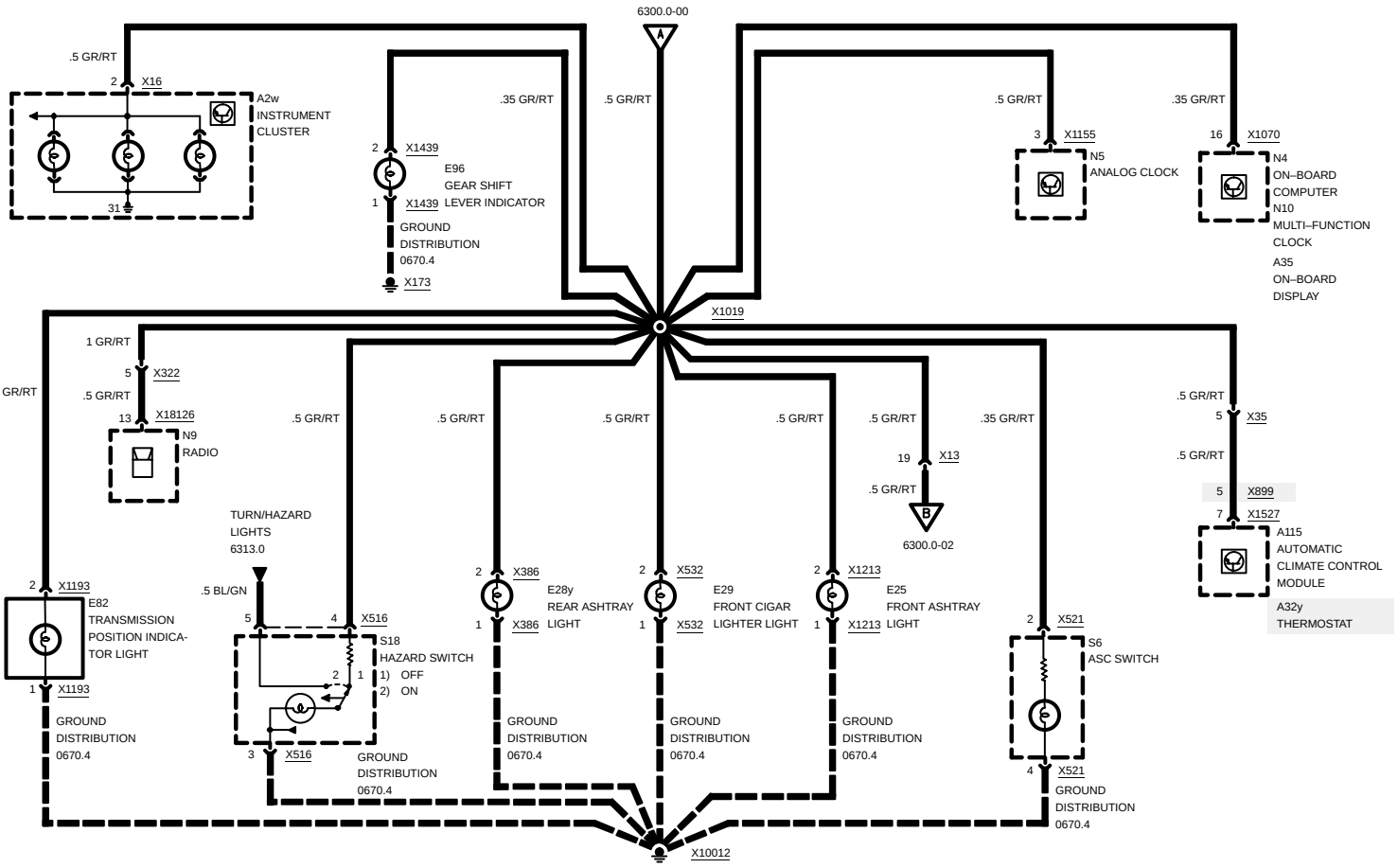
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6300.0 LIGHT SWITCH DETAILS



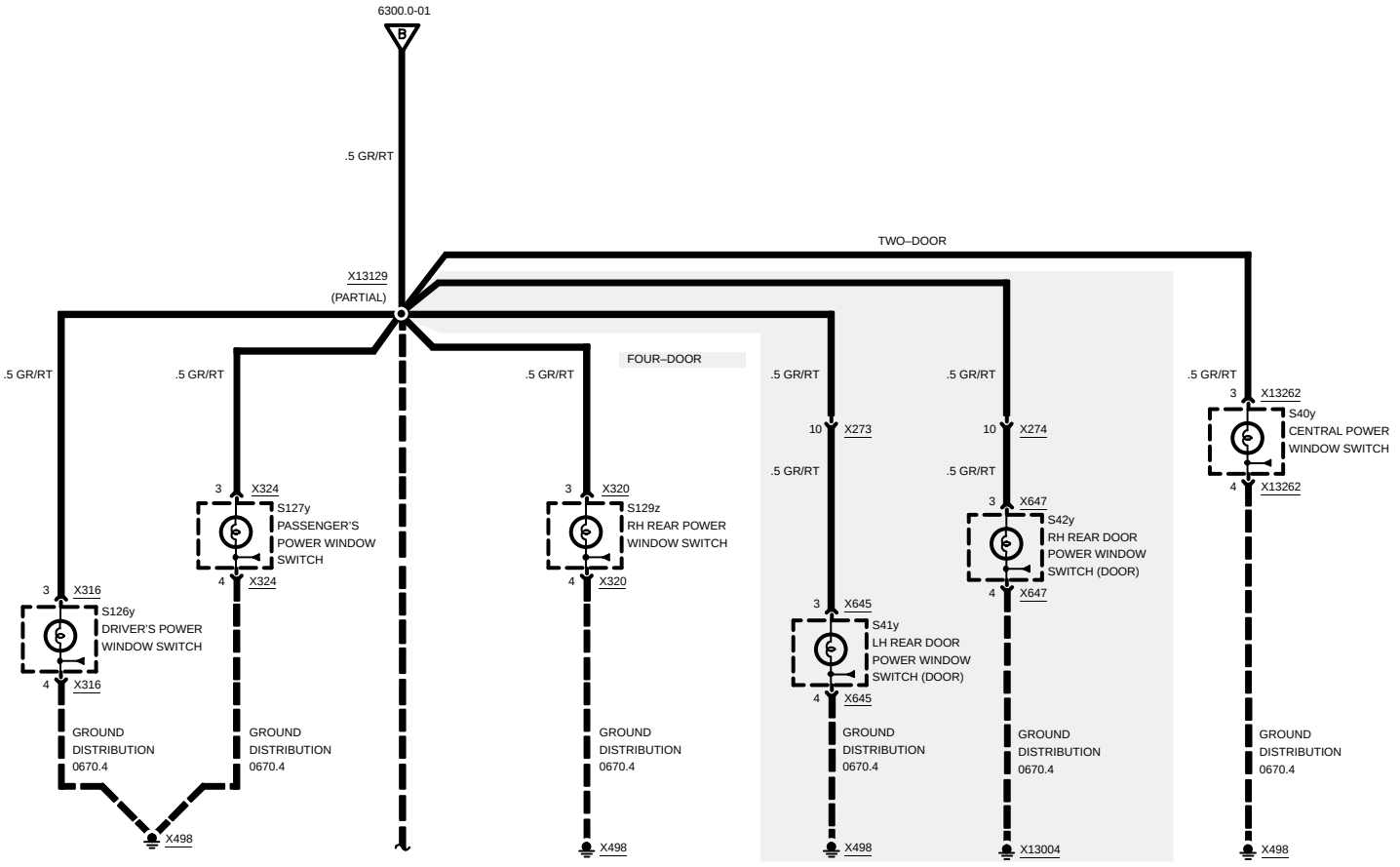
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LIGHT SWITCH DETAILS

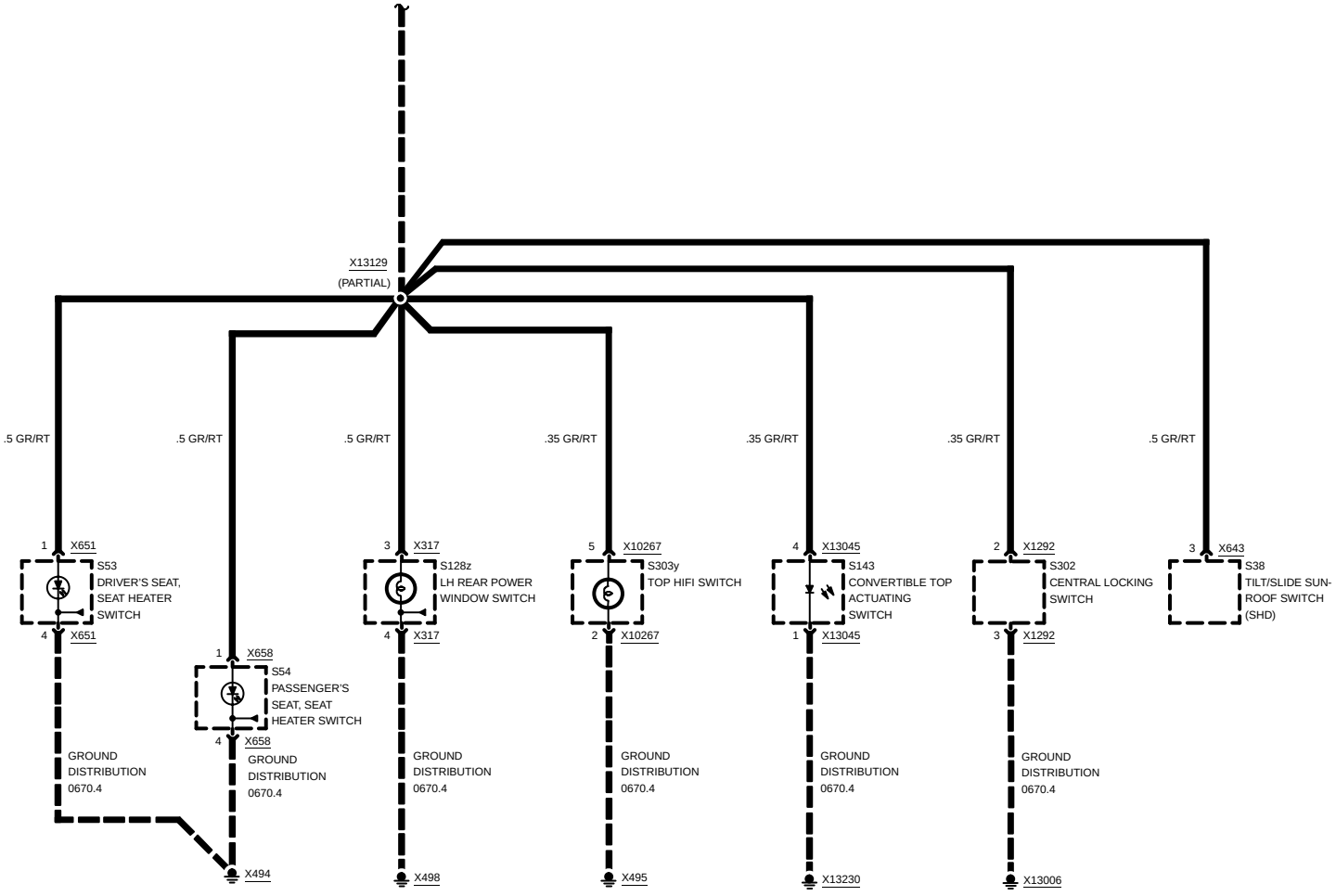


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LIGHT SWITCH DETAILS

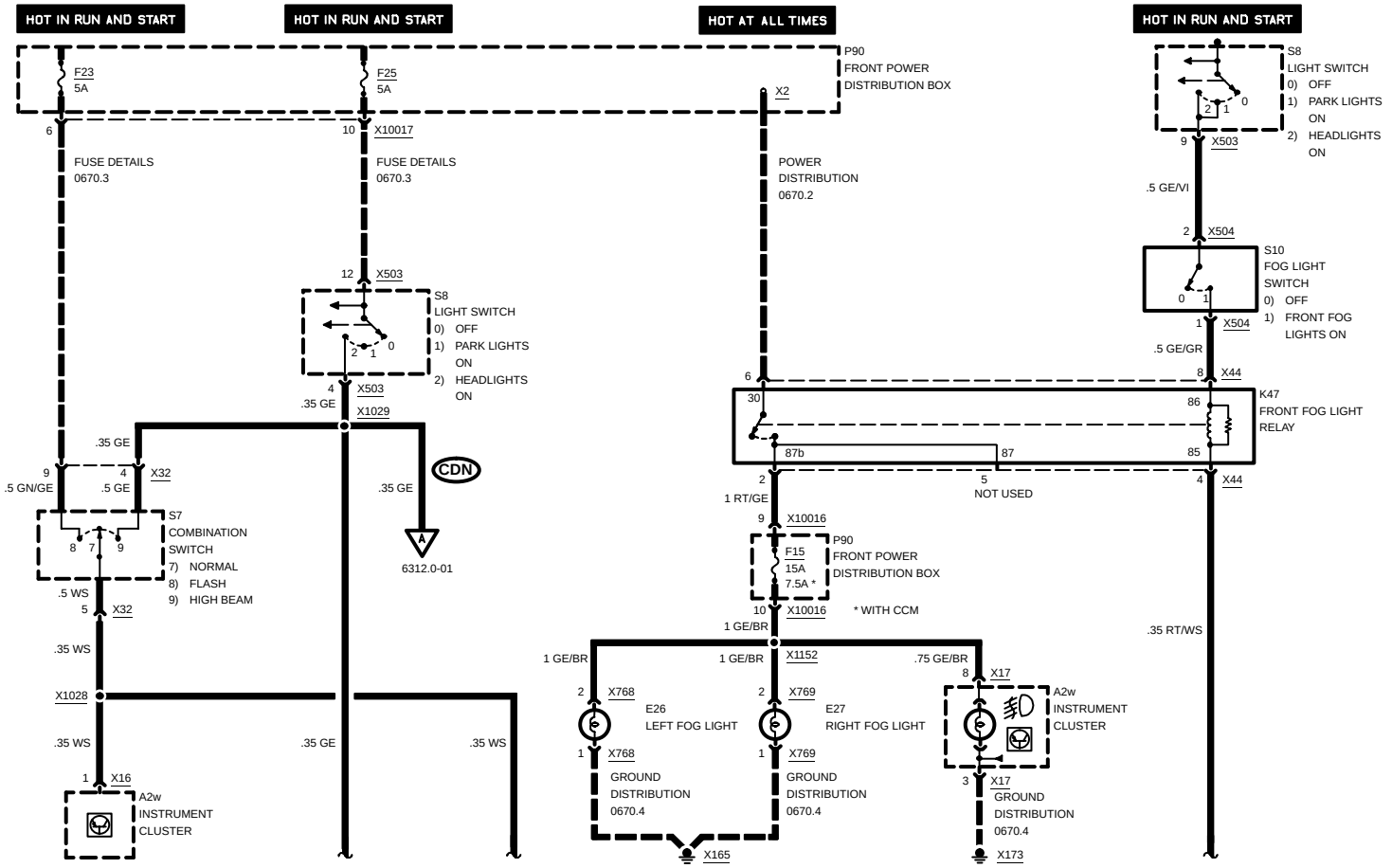


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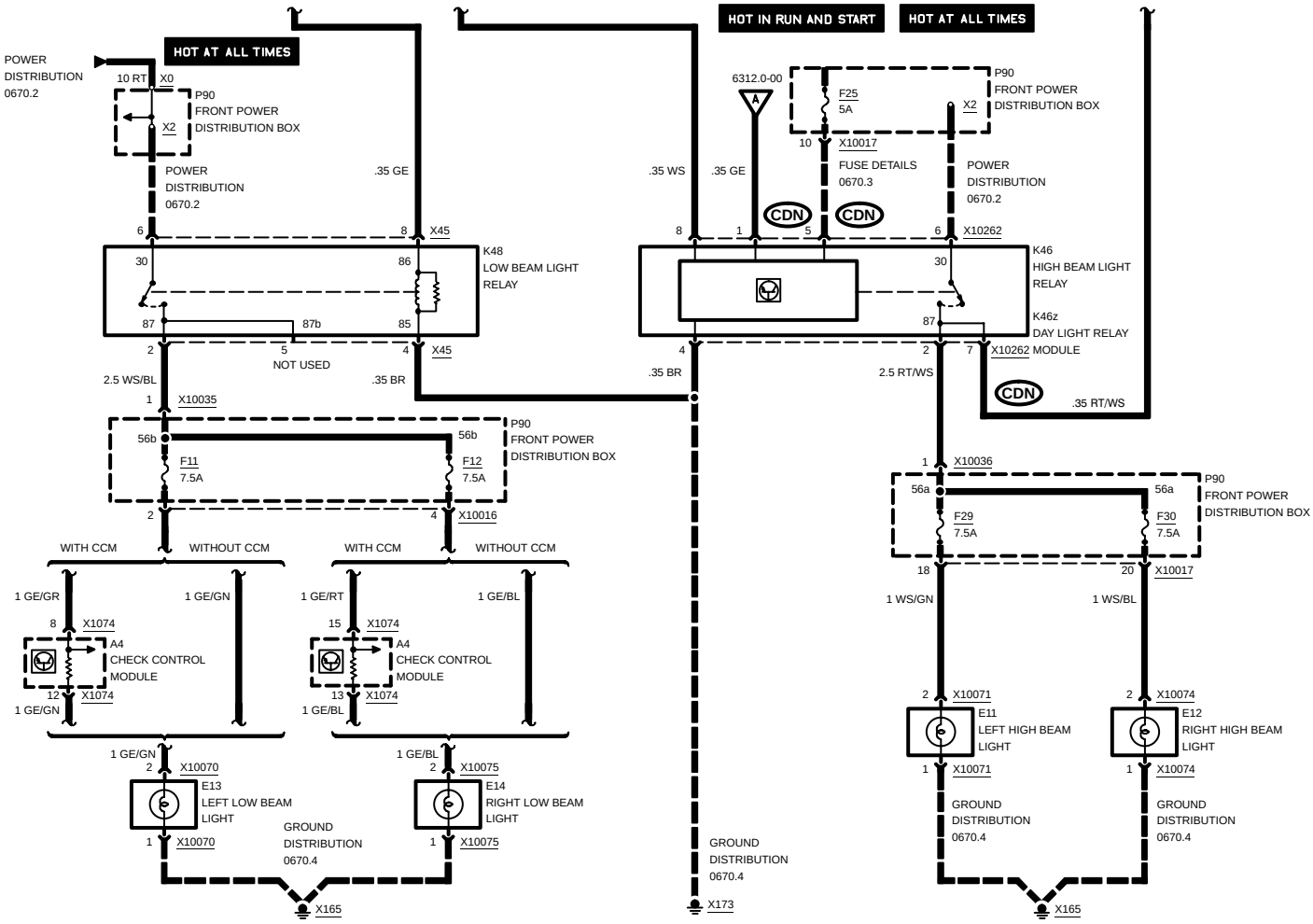


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6312.0 HEADLIGHTS/FOG LIGHTS

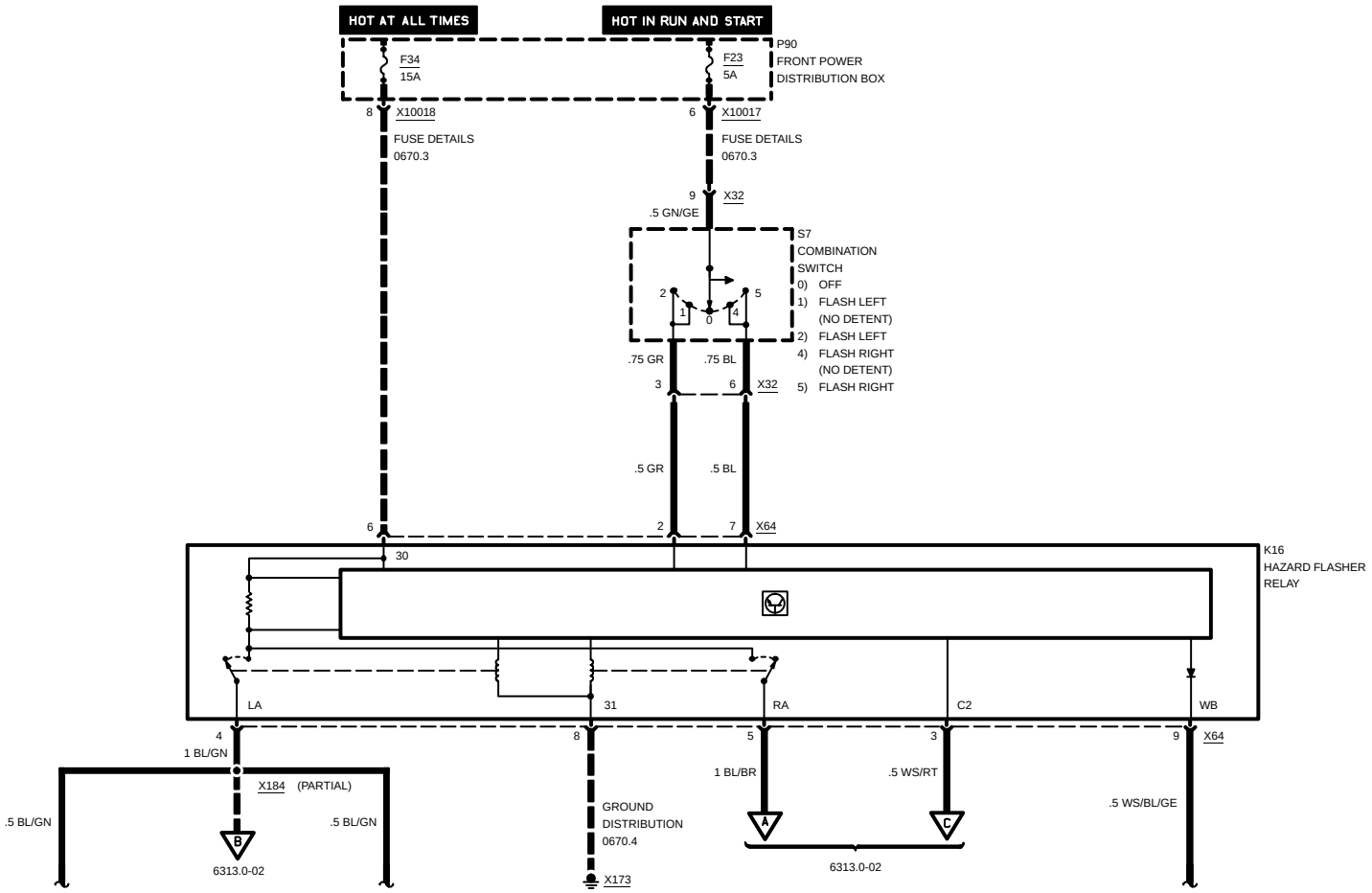


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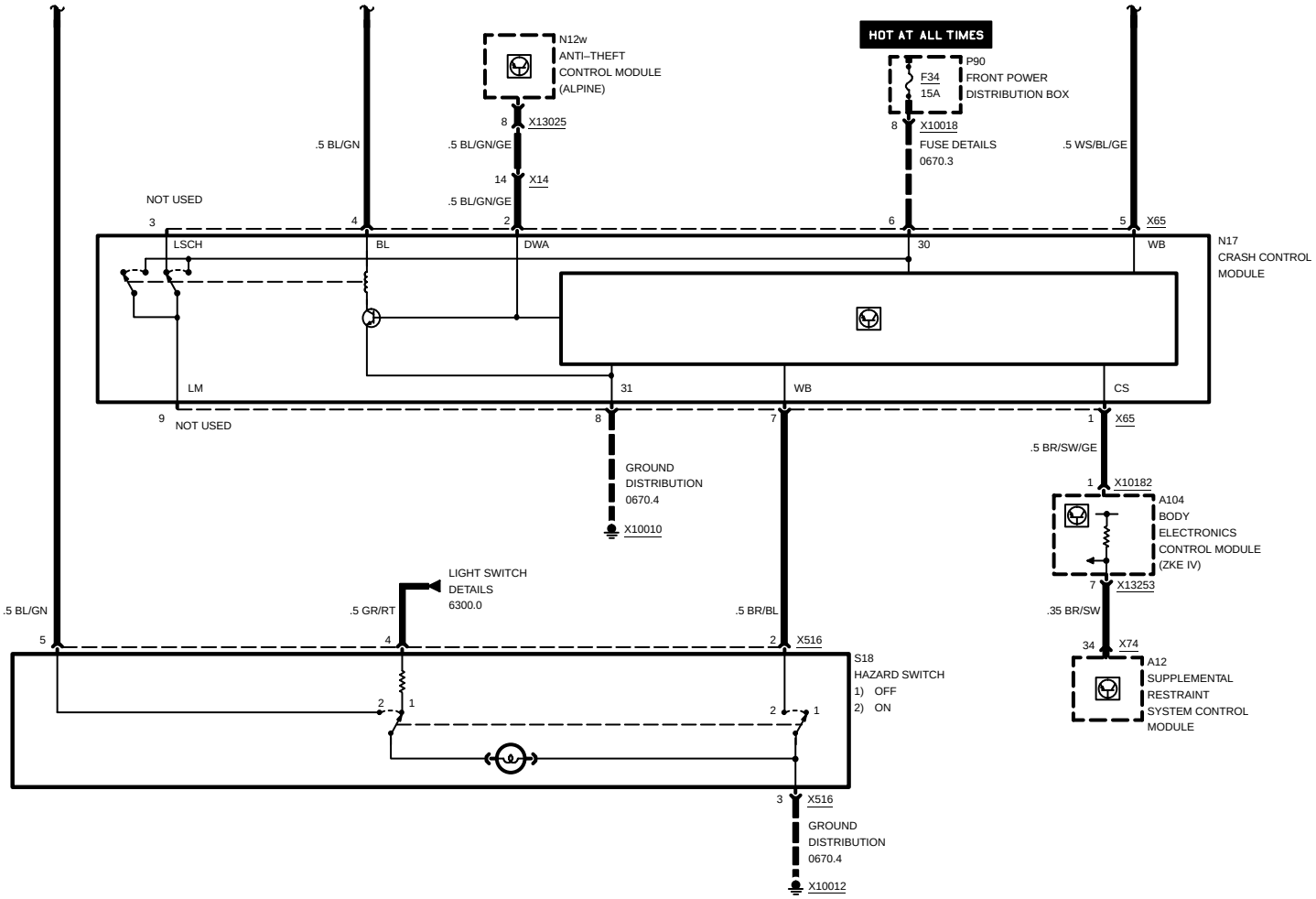


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6313.0 TURN/HAZARD LIGHTS

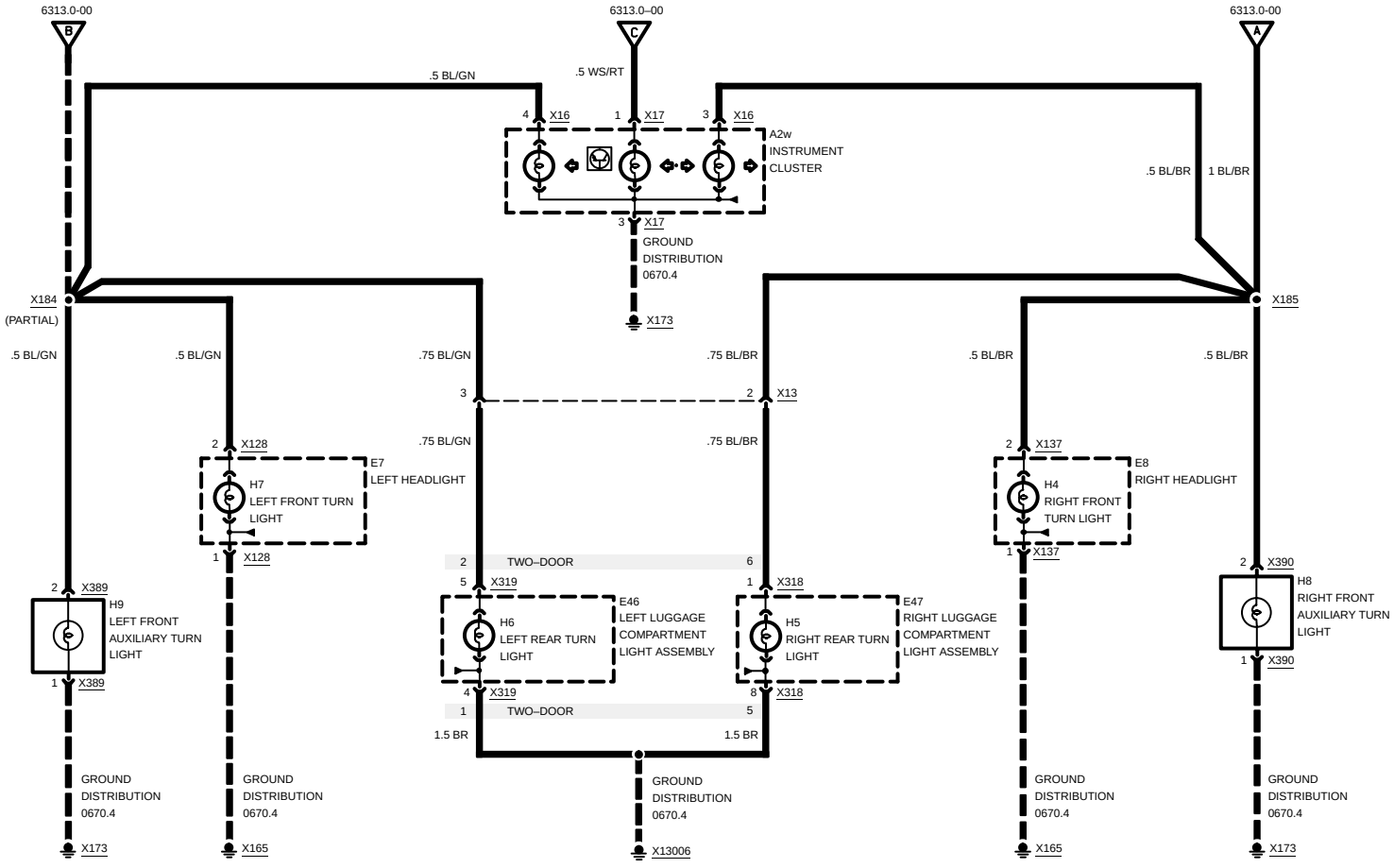


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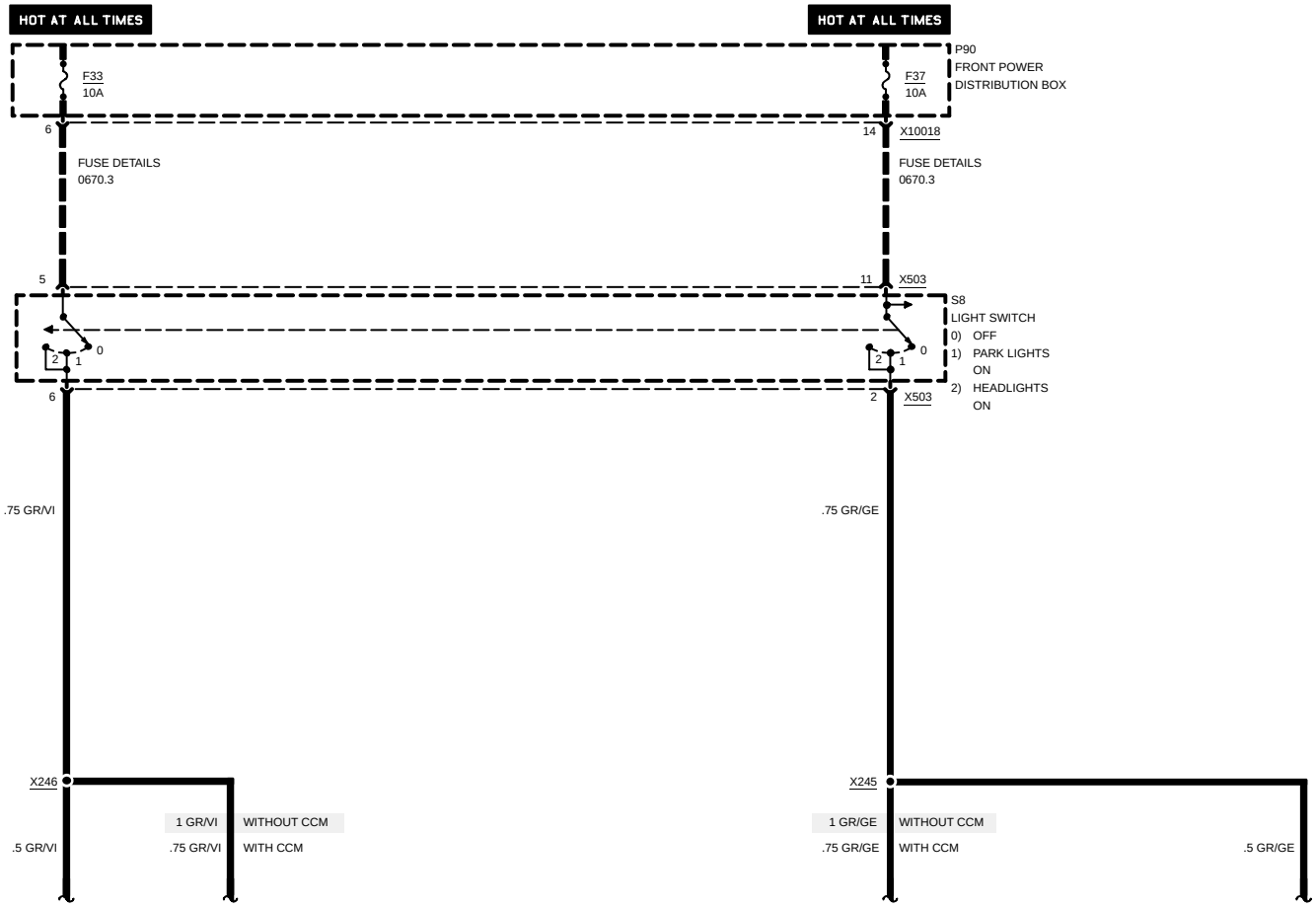
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TURN/HAZARD LIGHTS

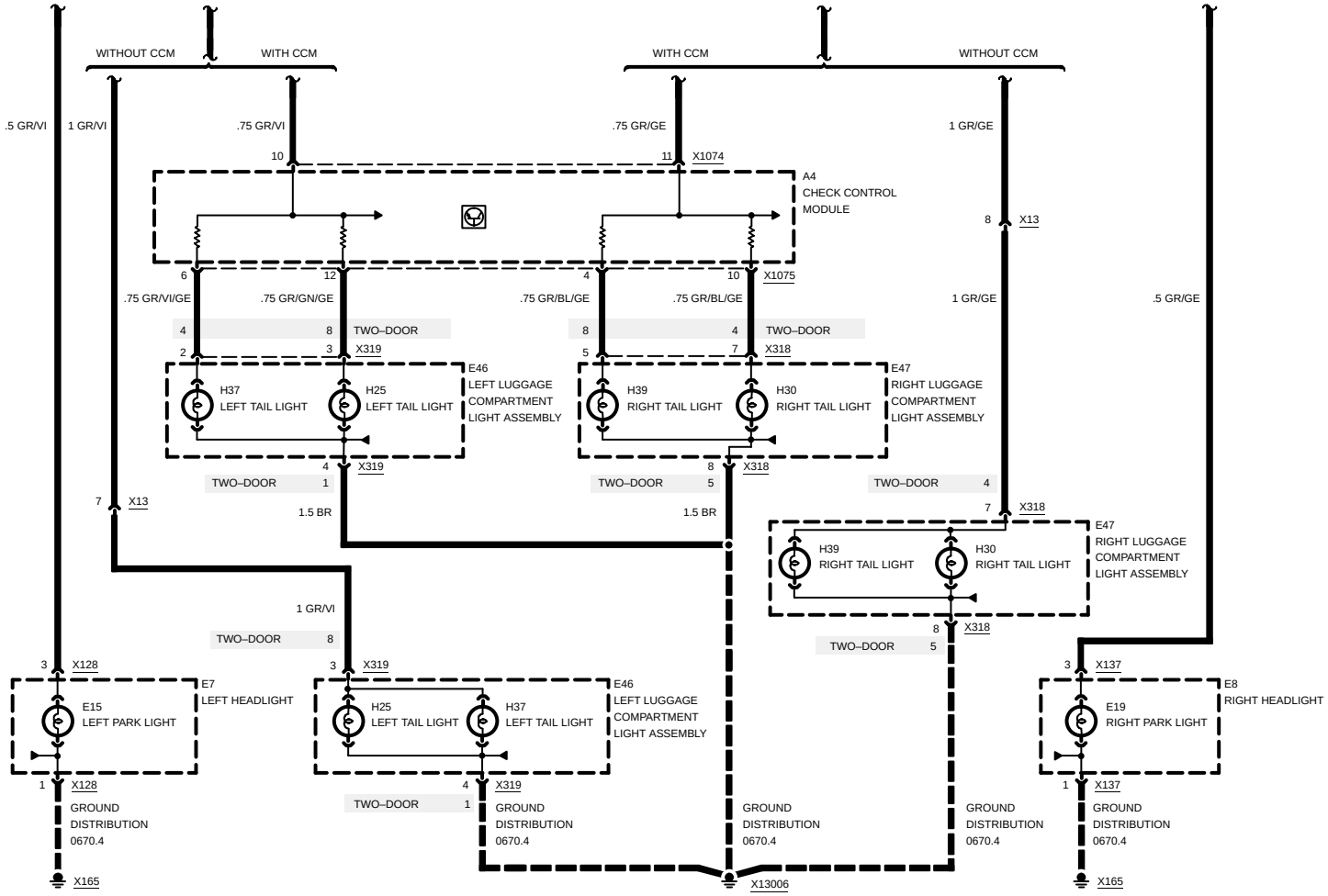


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6314.0 PARK/TAIL LIGHTS

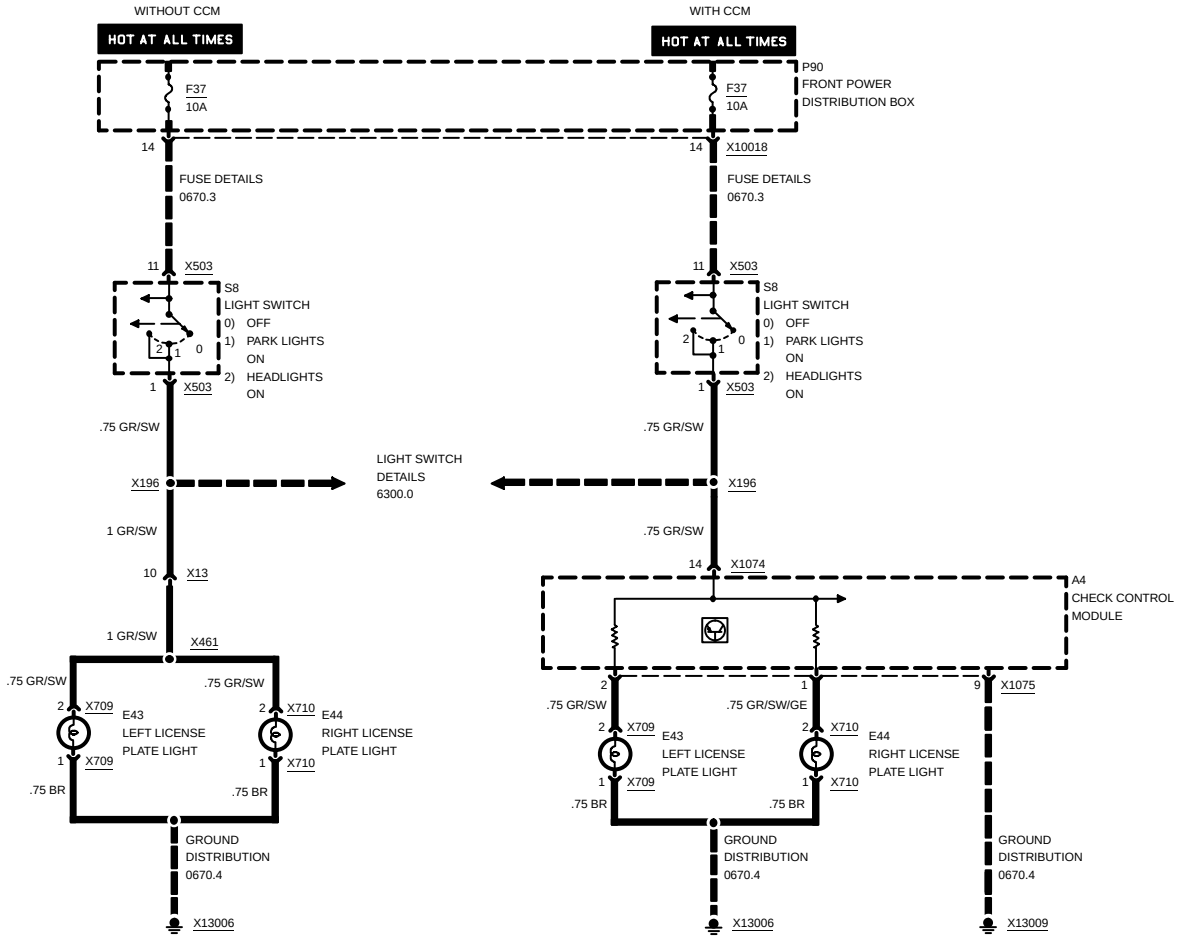


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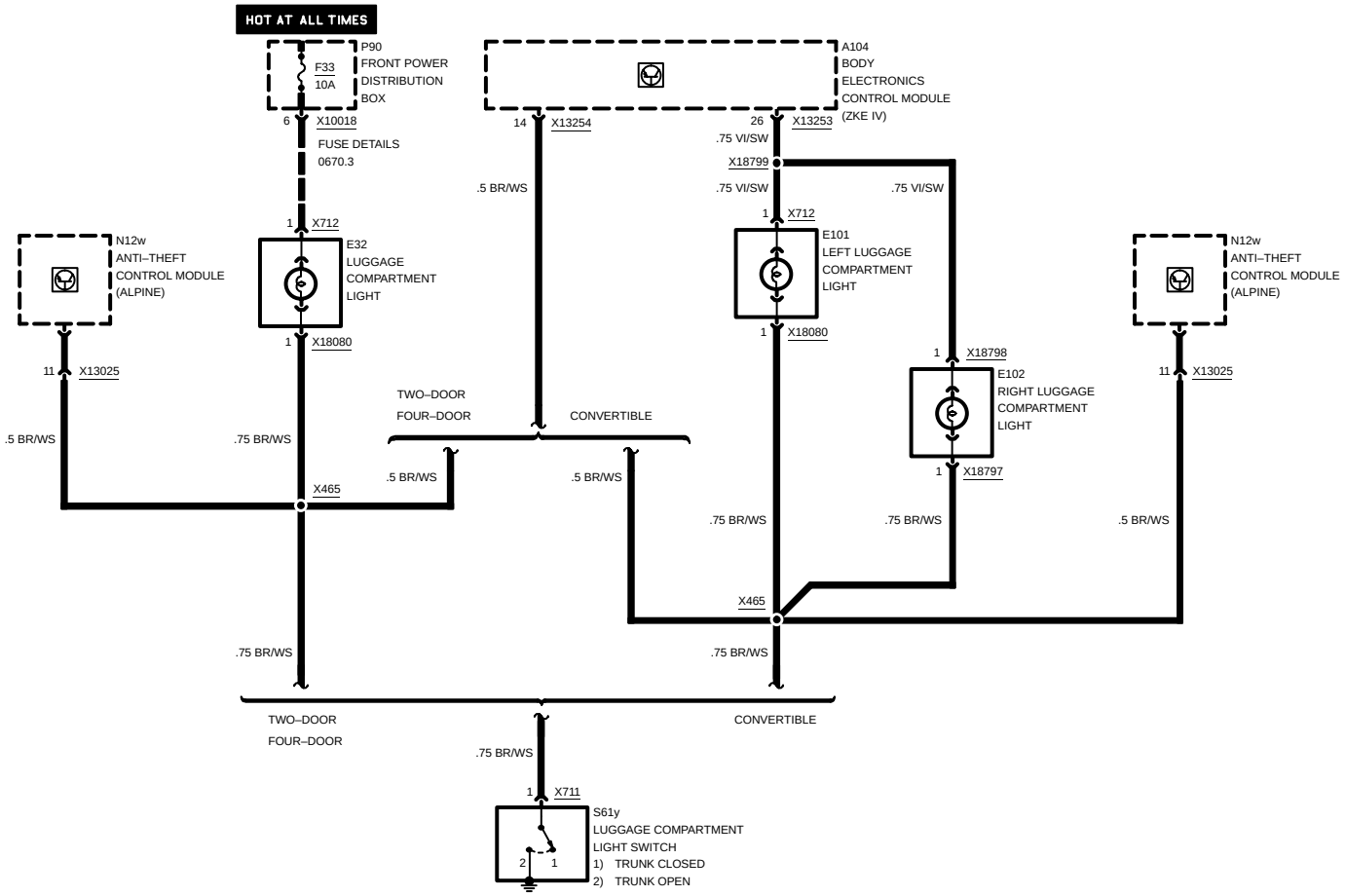
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6320.0 LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS



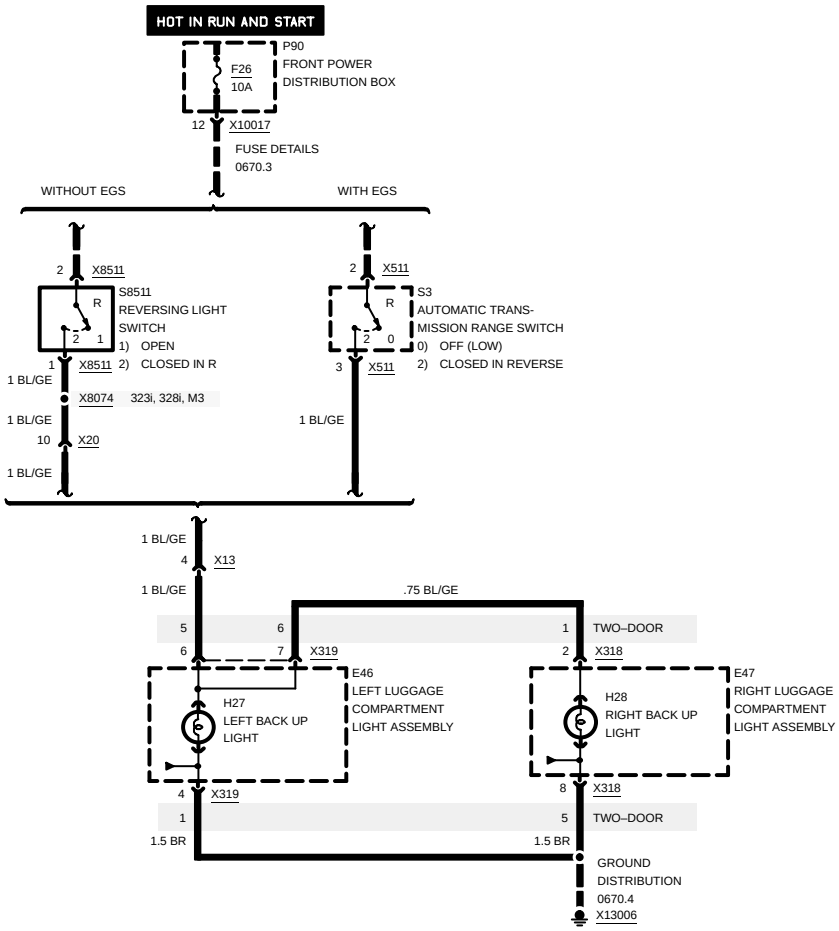
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LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS



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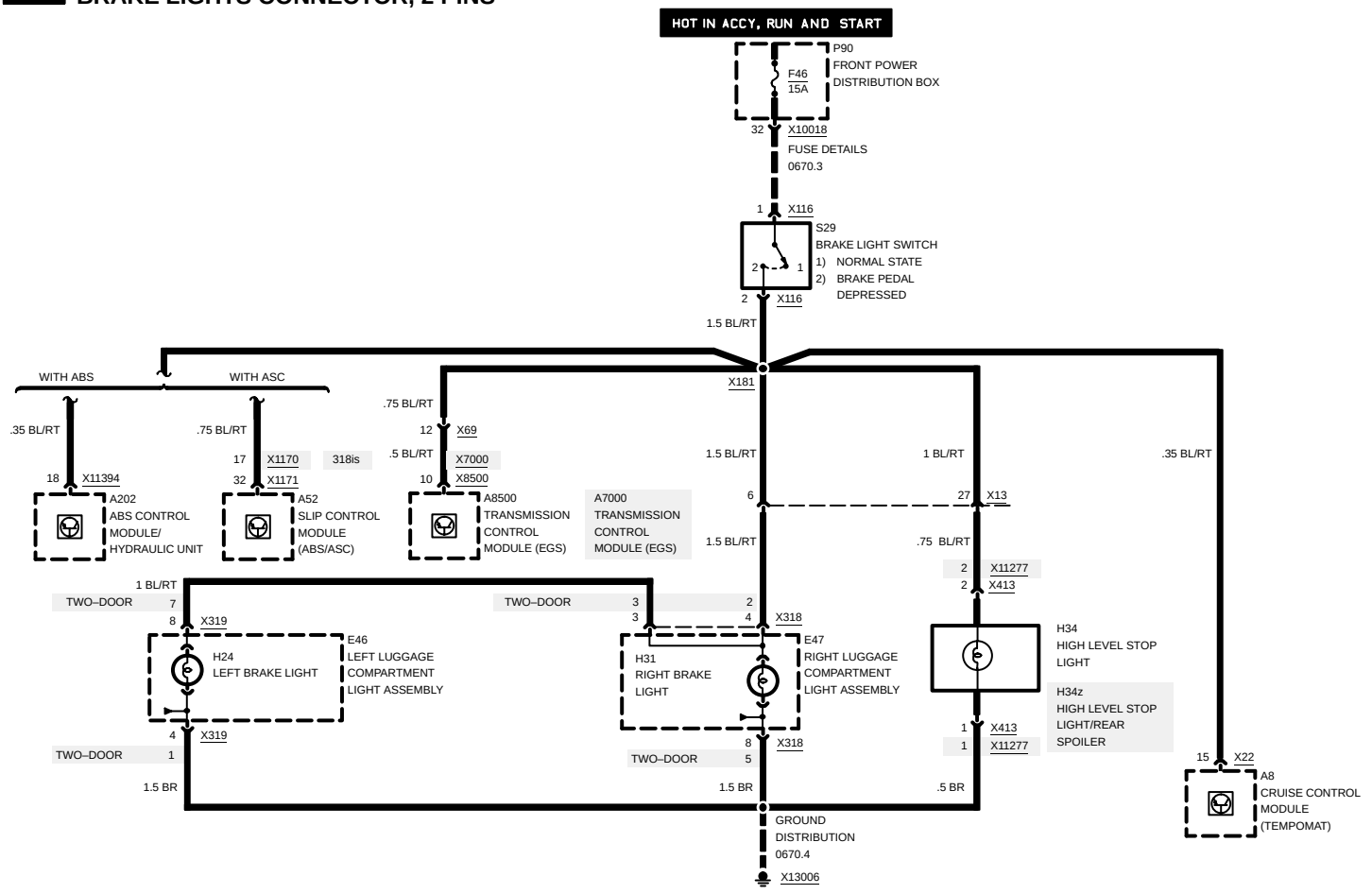
6322.0 BACK UP LIGHTS



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6325.0 BRAKE LIGHTS

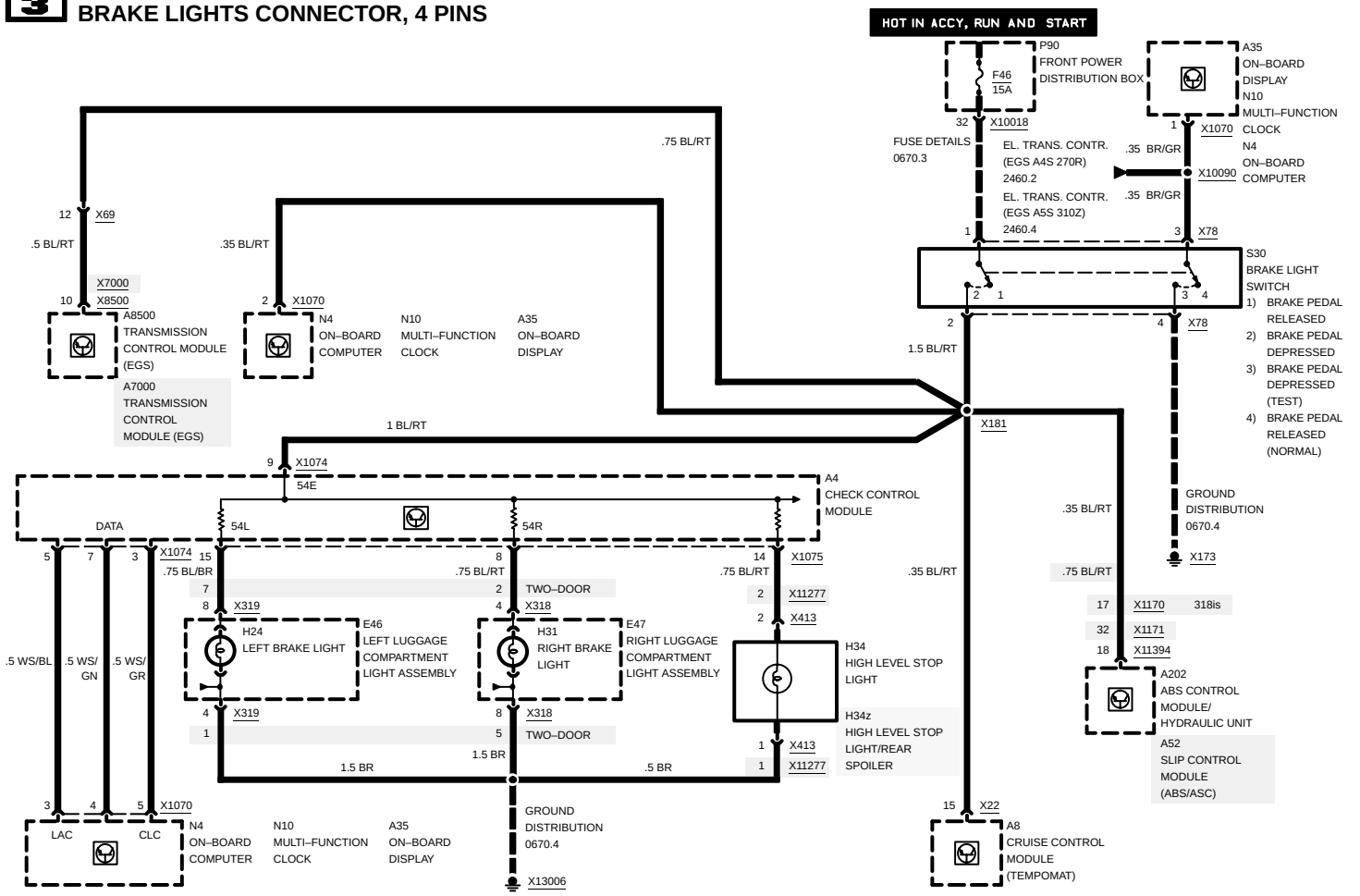
BRAKE LIGHTS CONNECTOR, 2 PINS



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BRAKE LIGHTS

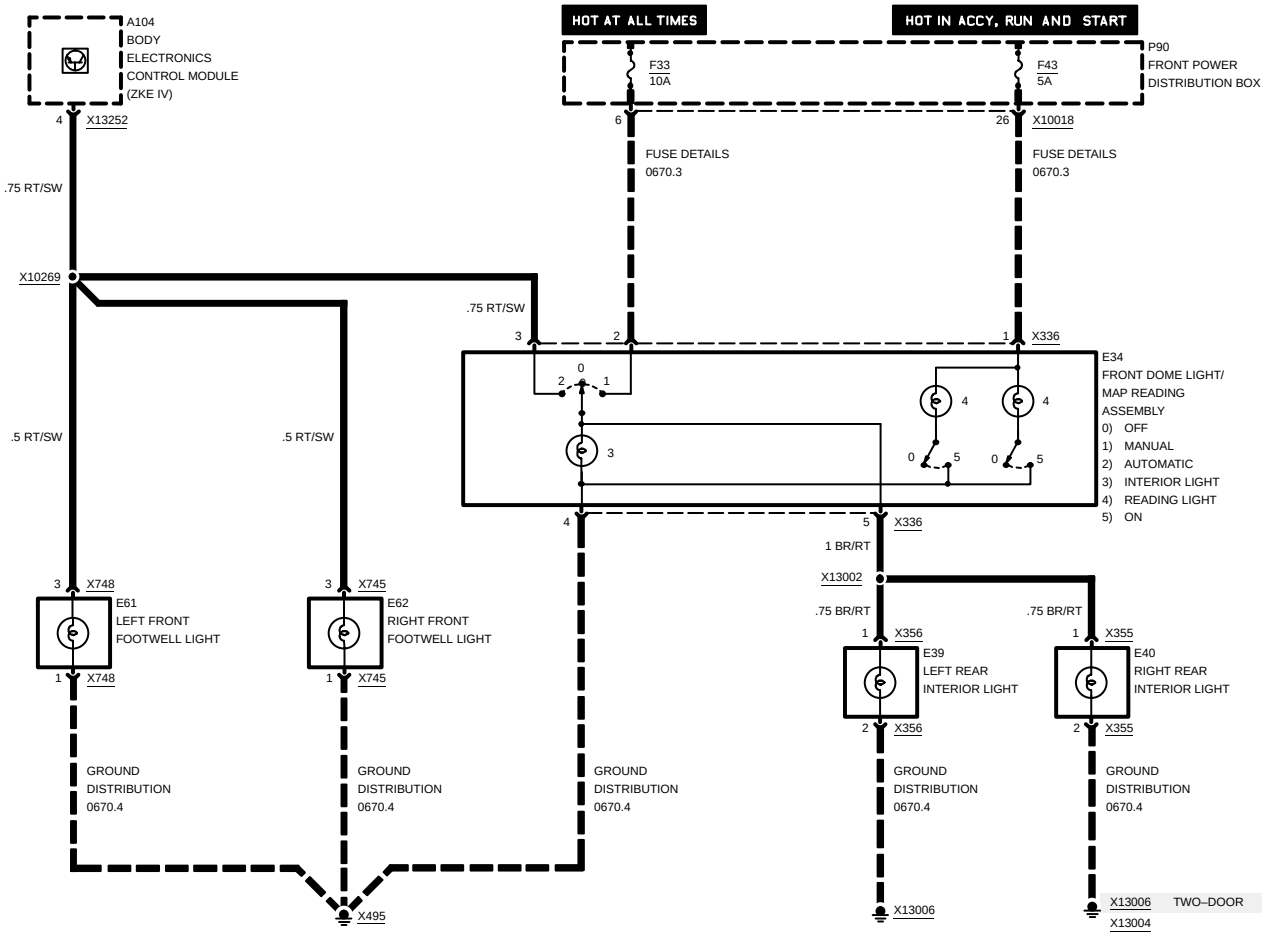
BRAKE LIGHTS CONNECTOR, 4 PINS



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6330.3 INTERIOR LIGHTS

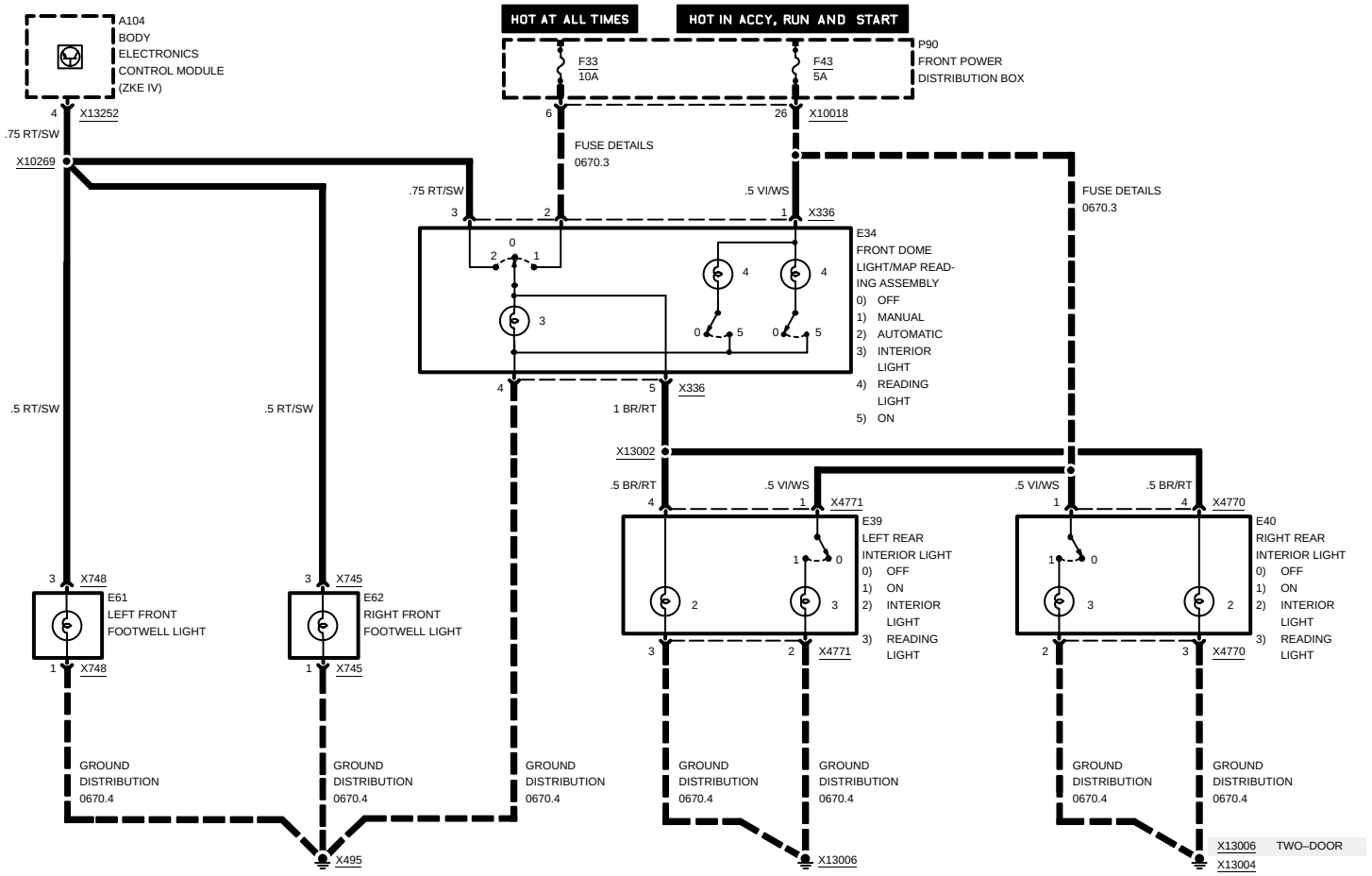
WITHOUT REAR READING LIGHT



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INTERIOR LIGHTS

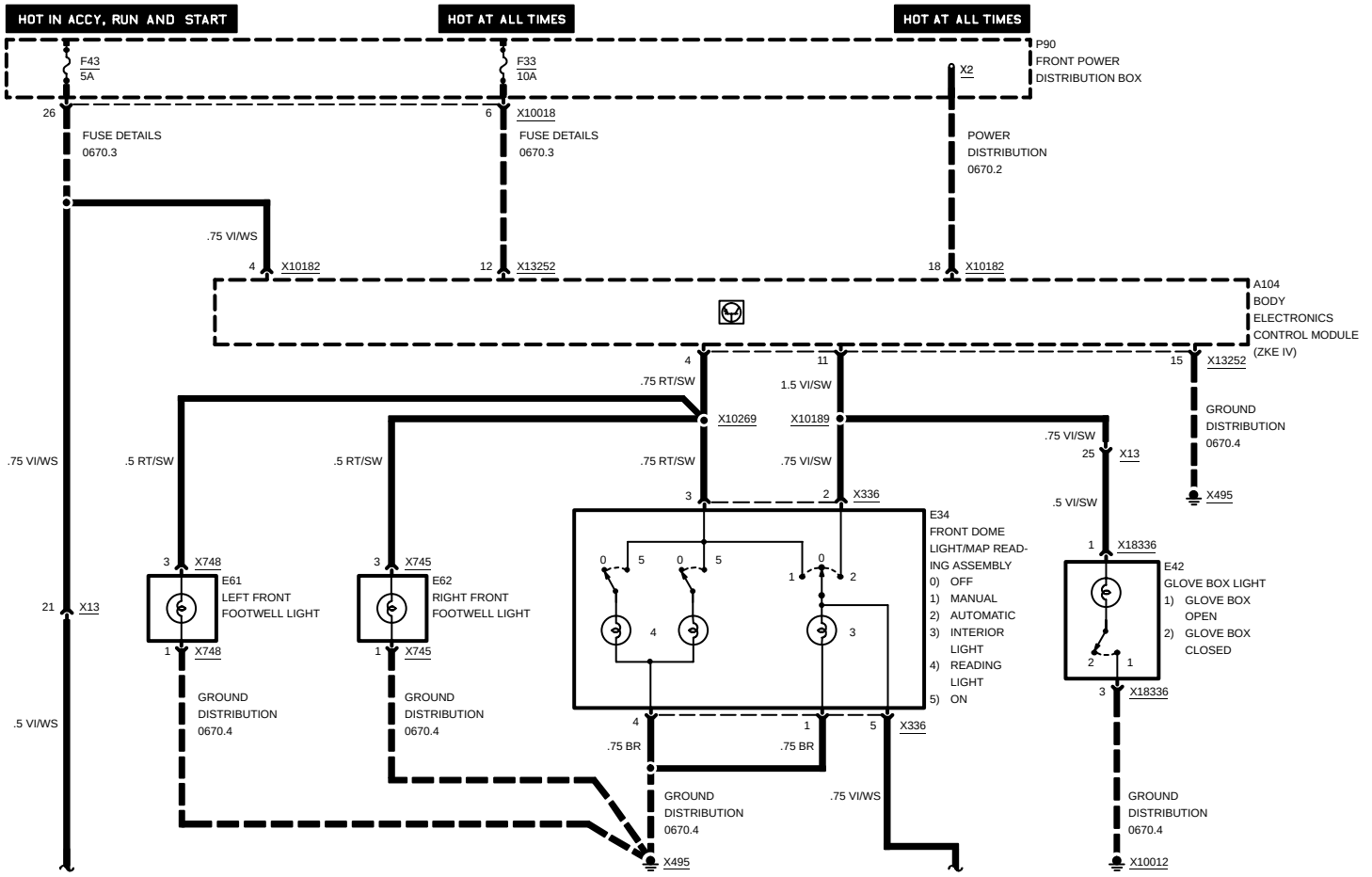
WITH REAR READING LIGHT



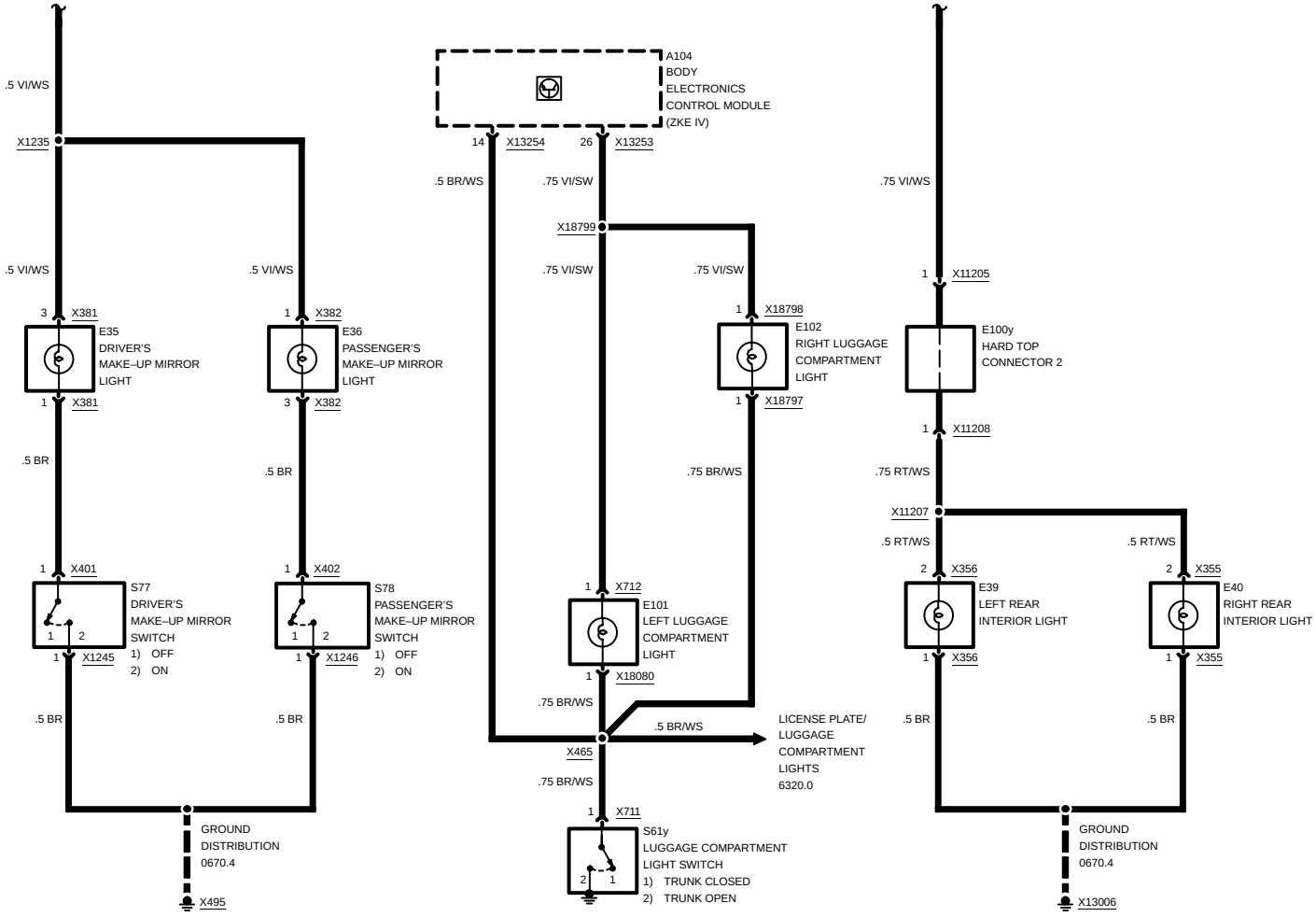
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INTERIOR LIGHTS

CONVERTIBLE

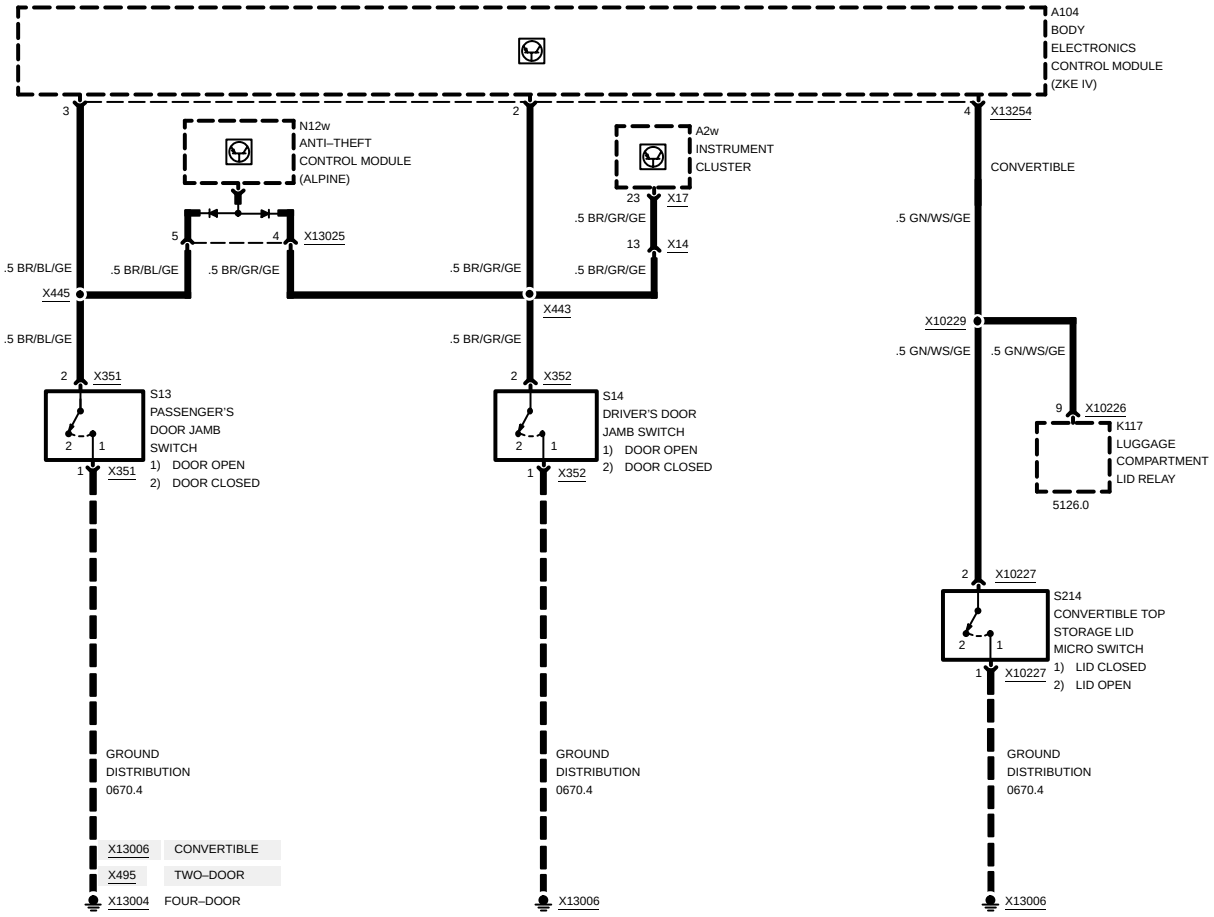


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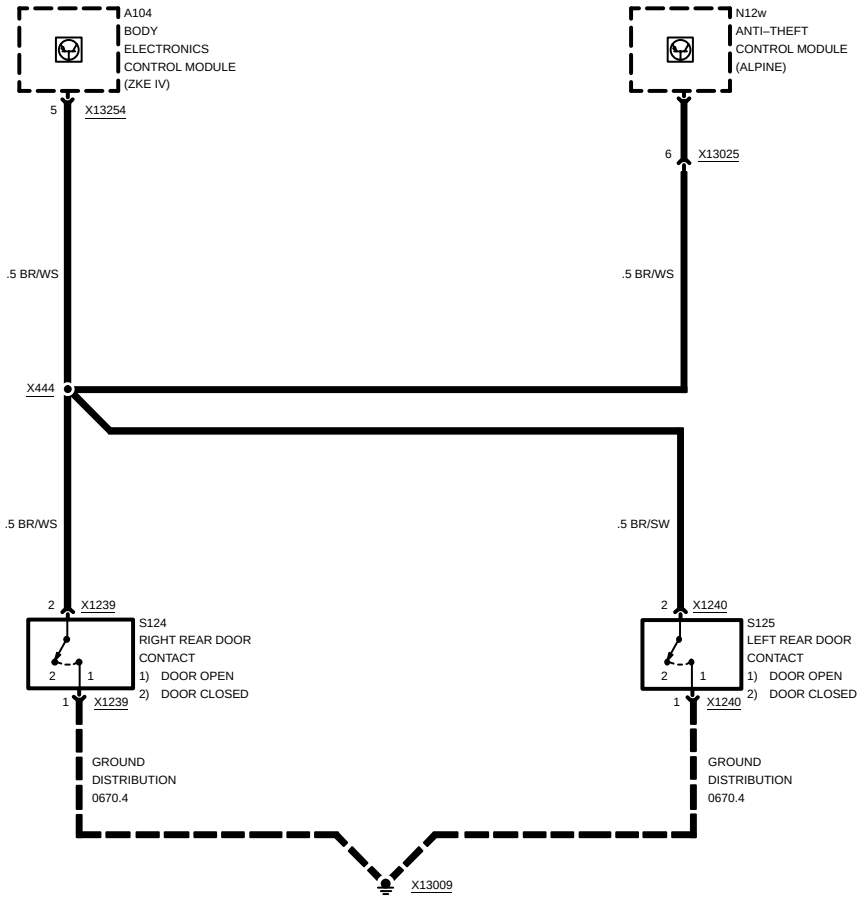
INTERIOR LIGHTS



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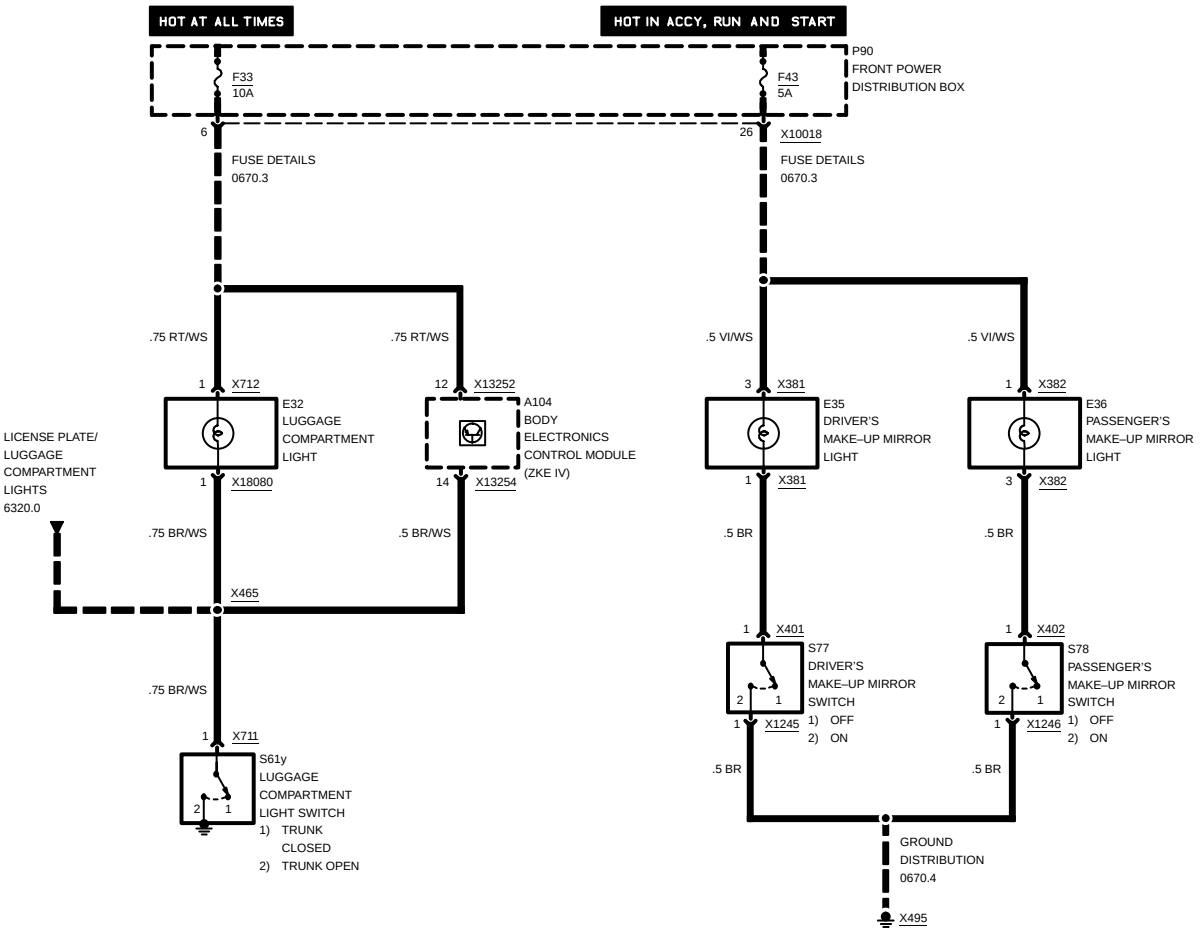
INTERIOR LIGHTS

REAR DOOR JAMB SWITCH



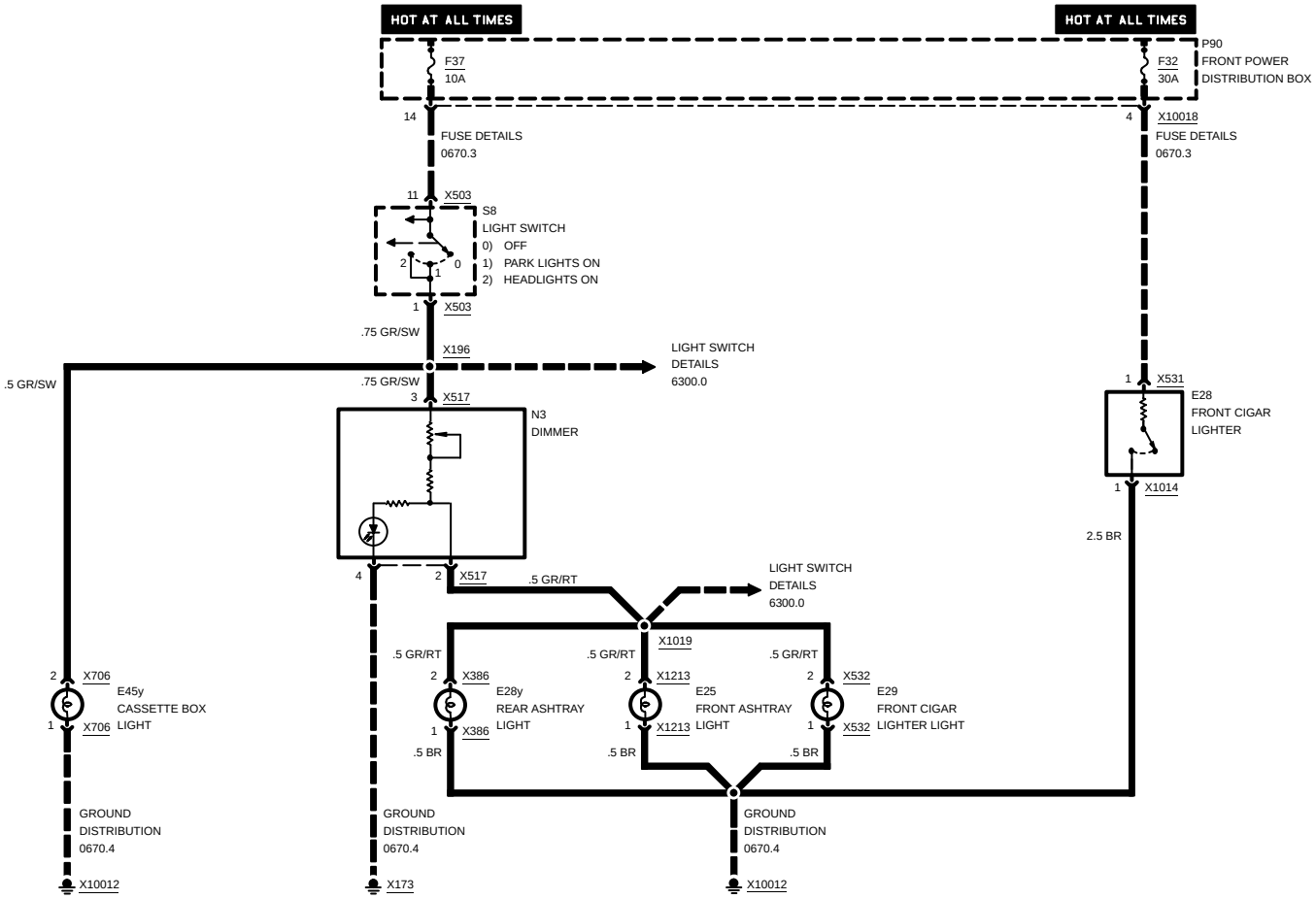
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INTERIOR LIGHTS



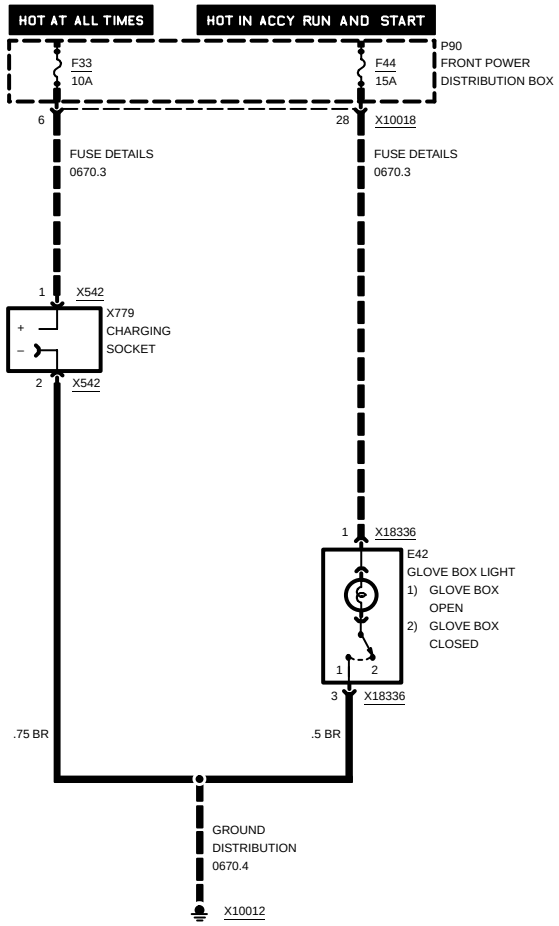
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6332.1 GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER

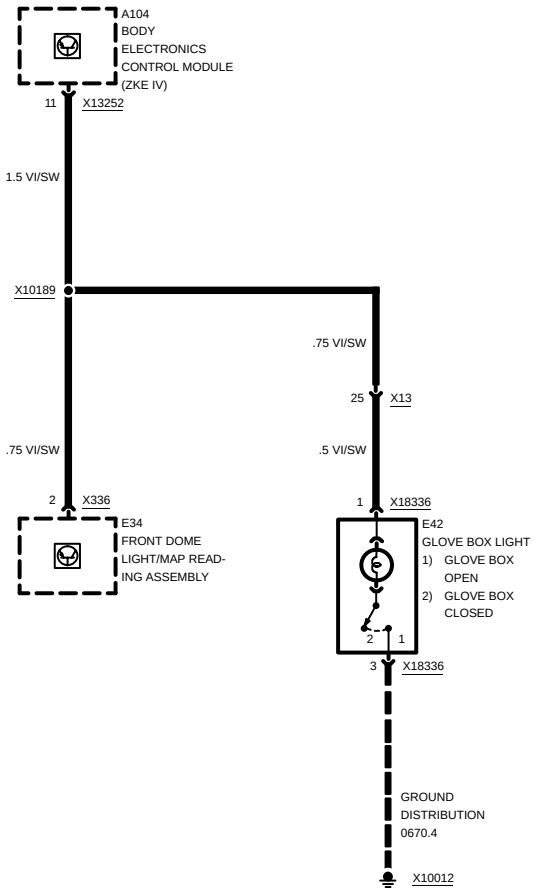


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GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER

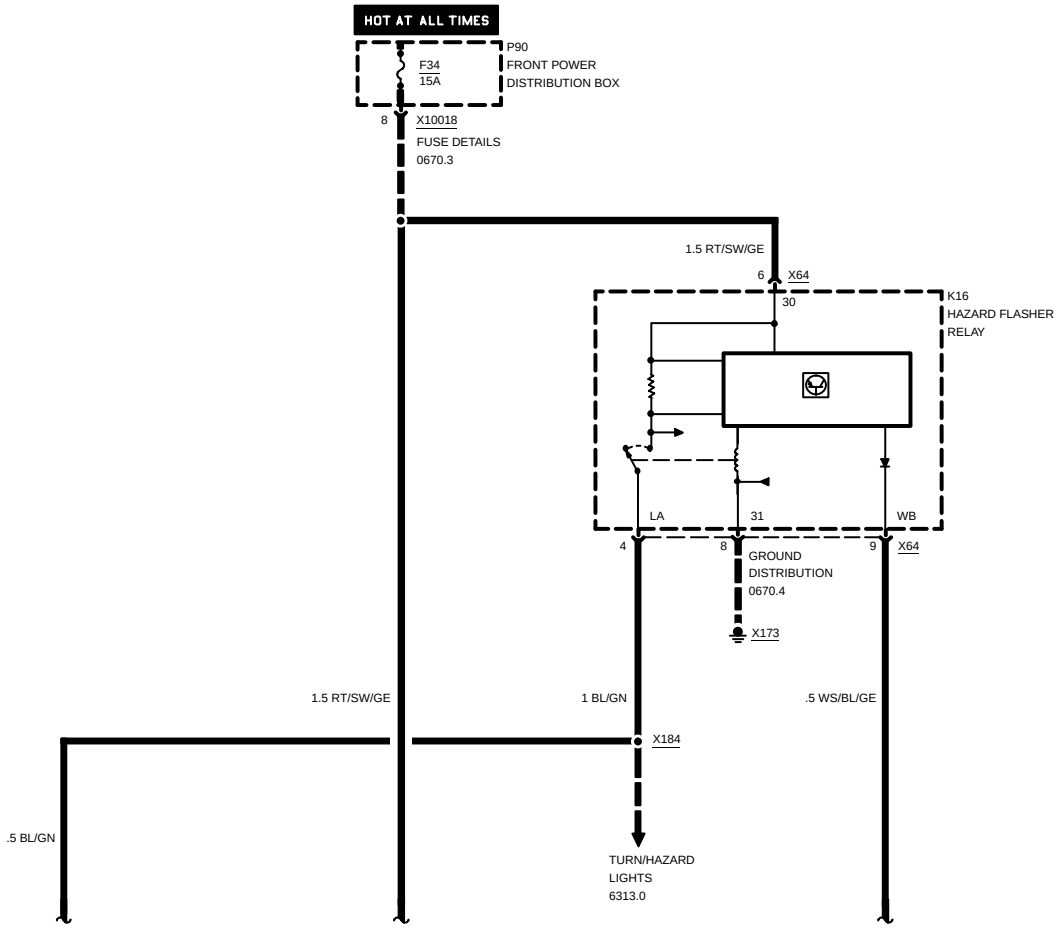


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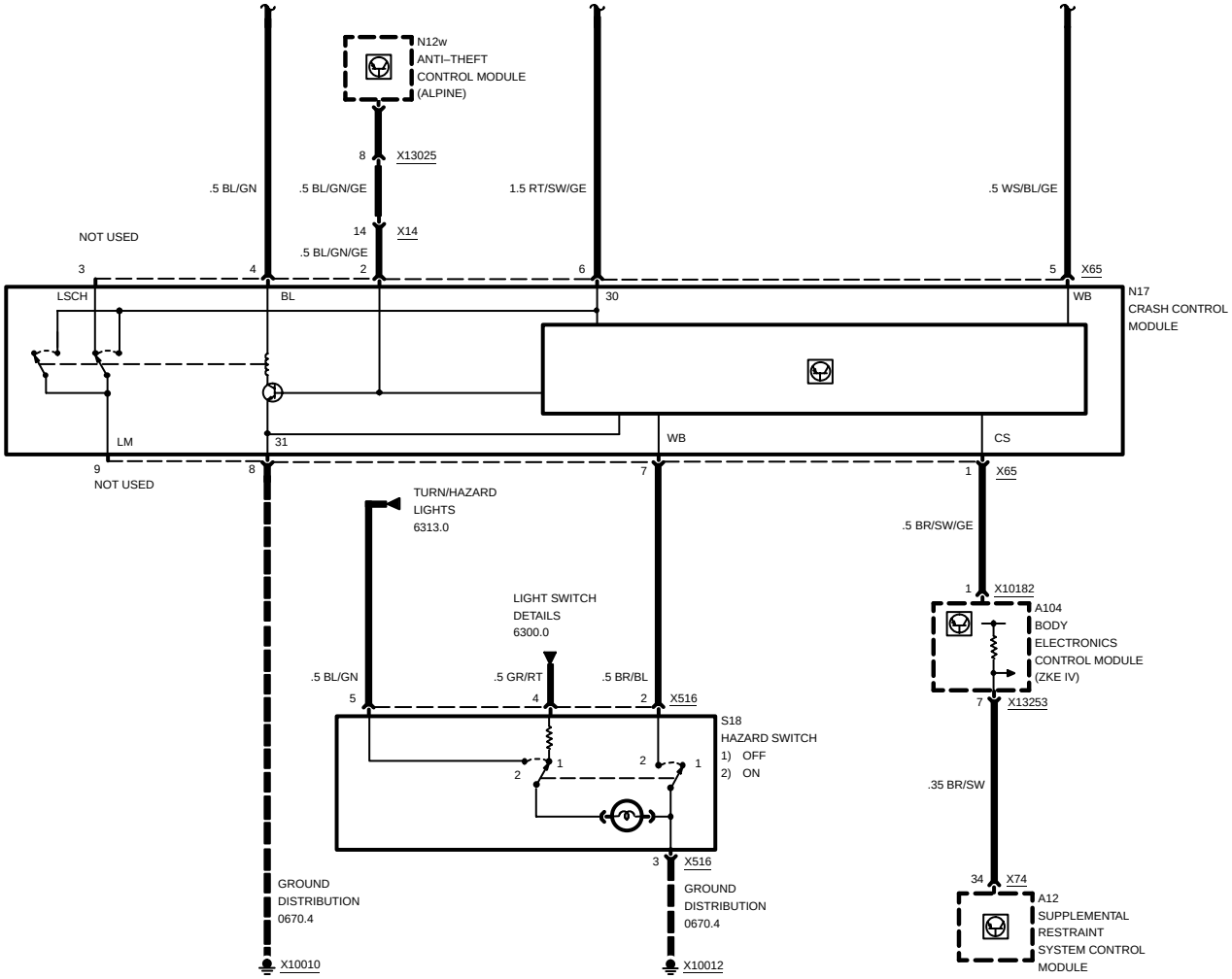


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6350.0 CRASH CONTROL MODULE

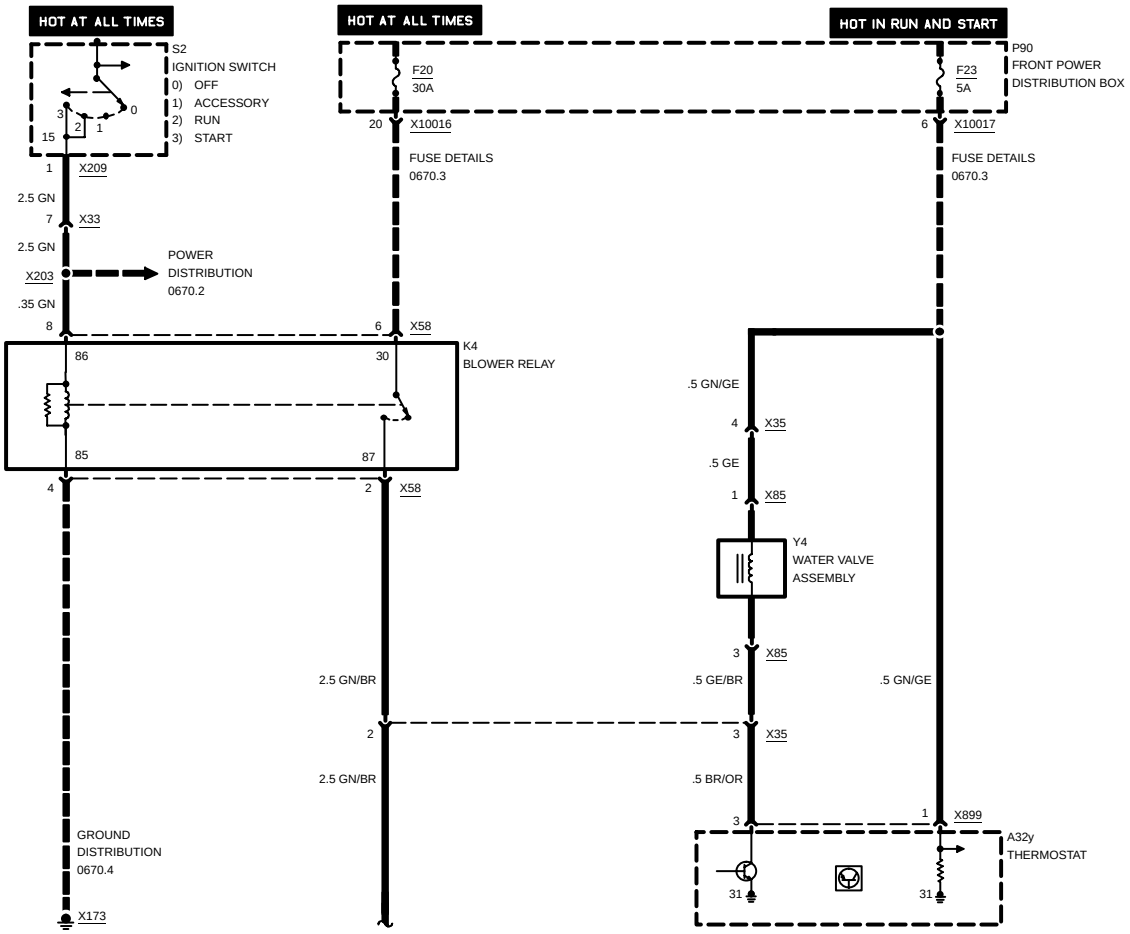


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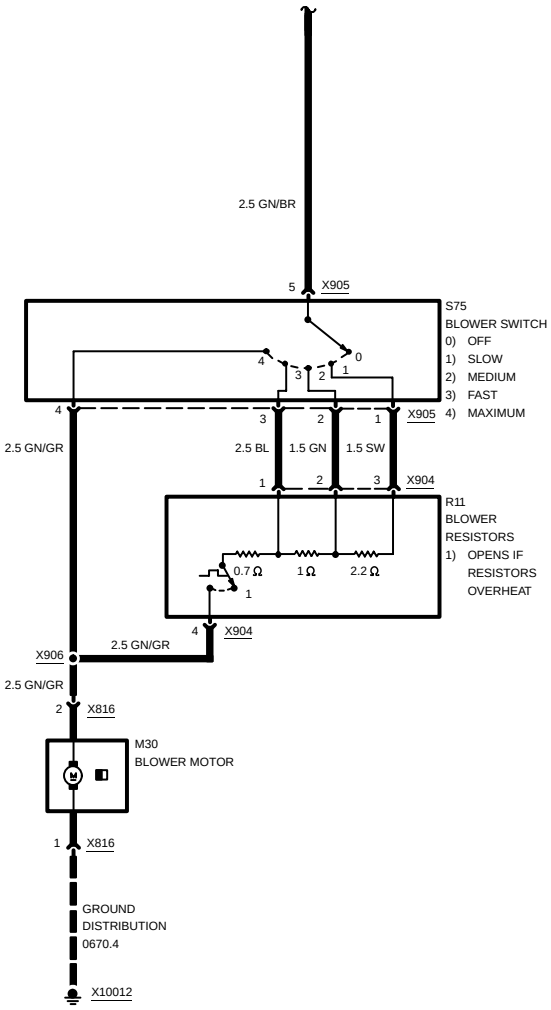


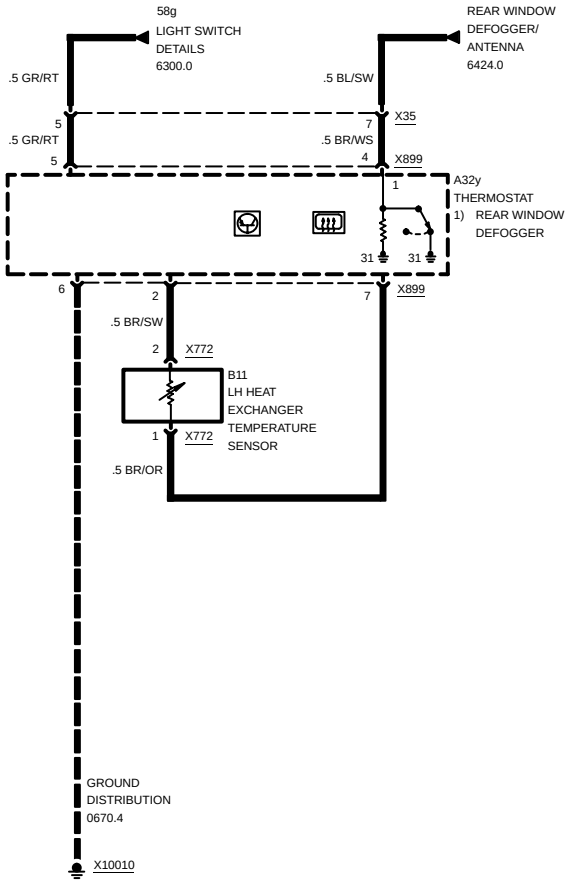
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6410.5 HEATING CONTROL (HR)



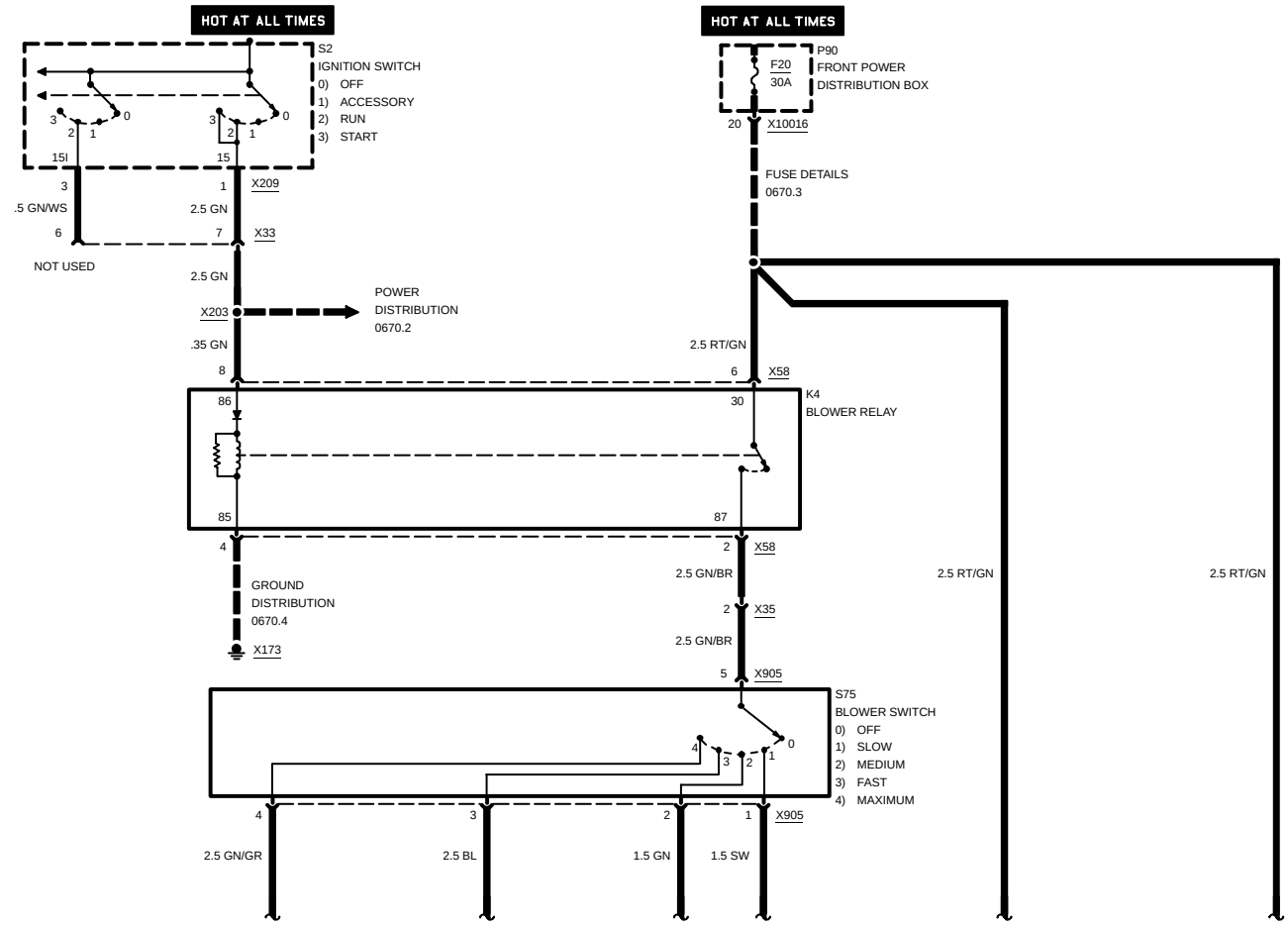
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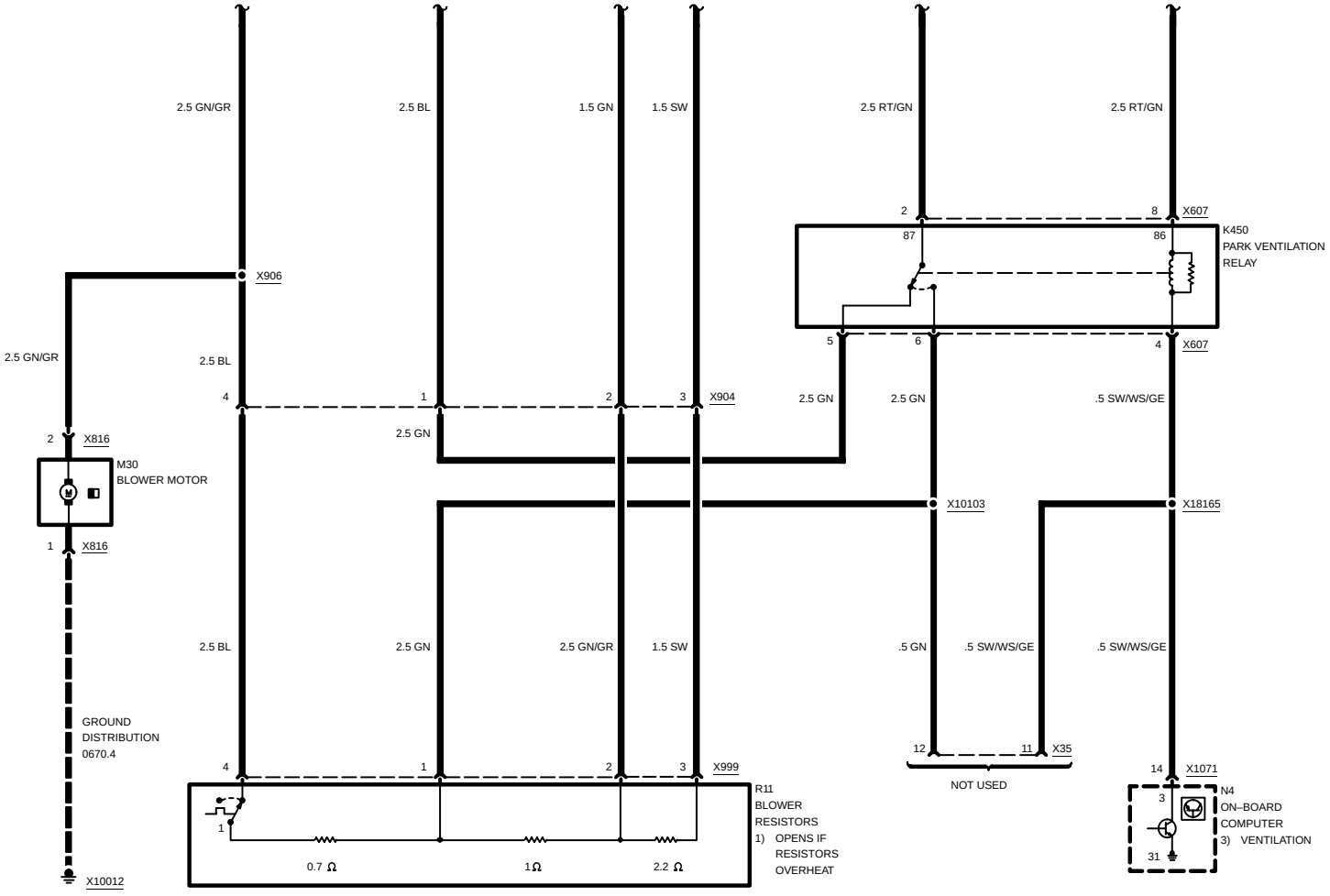


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6412.10 PARK VENTILATION WITH HR

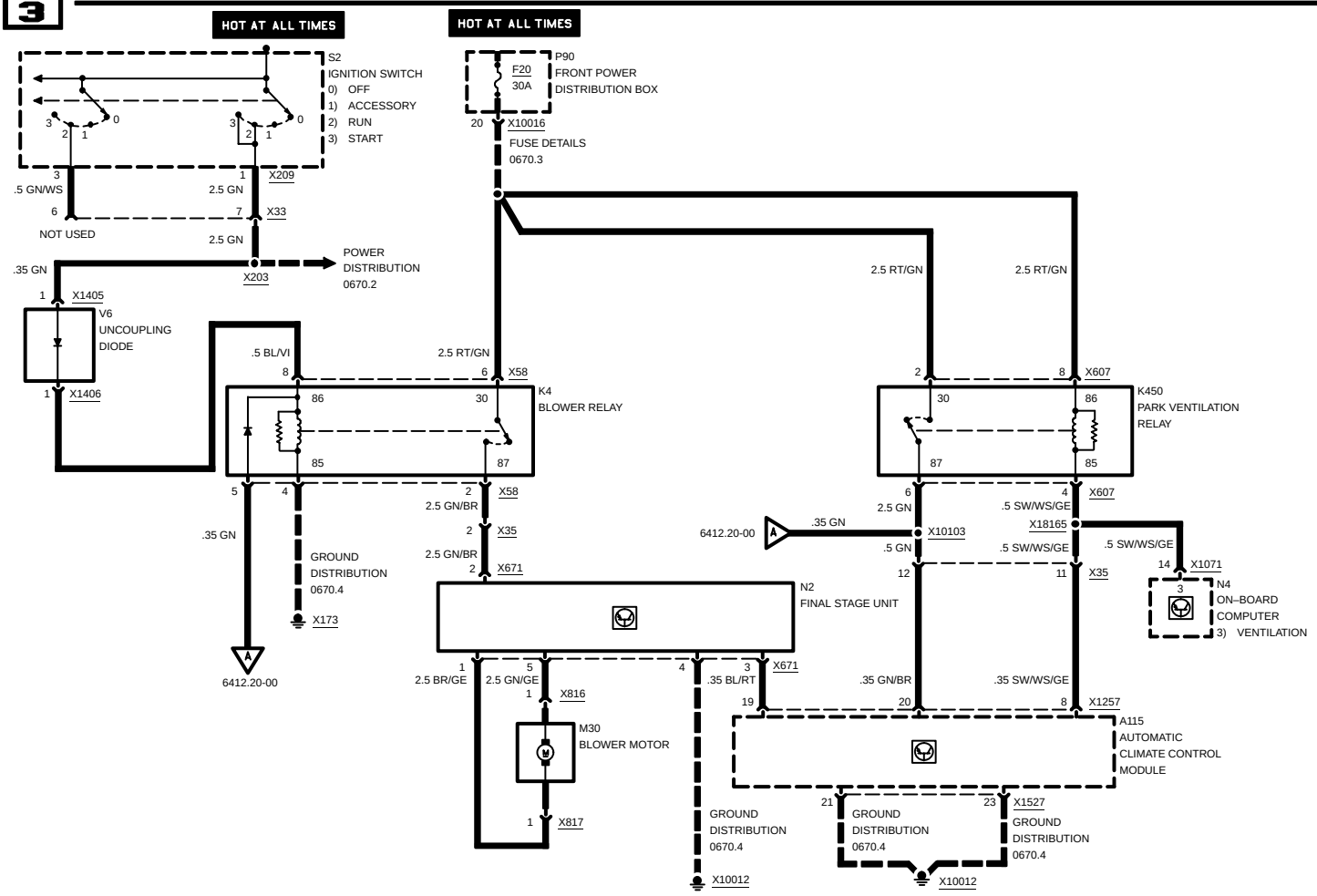


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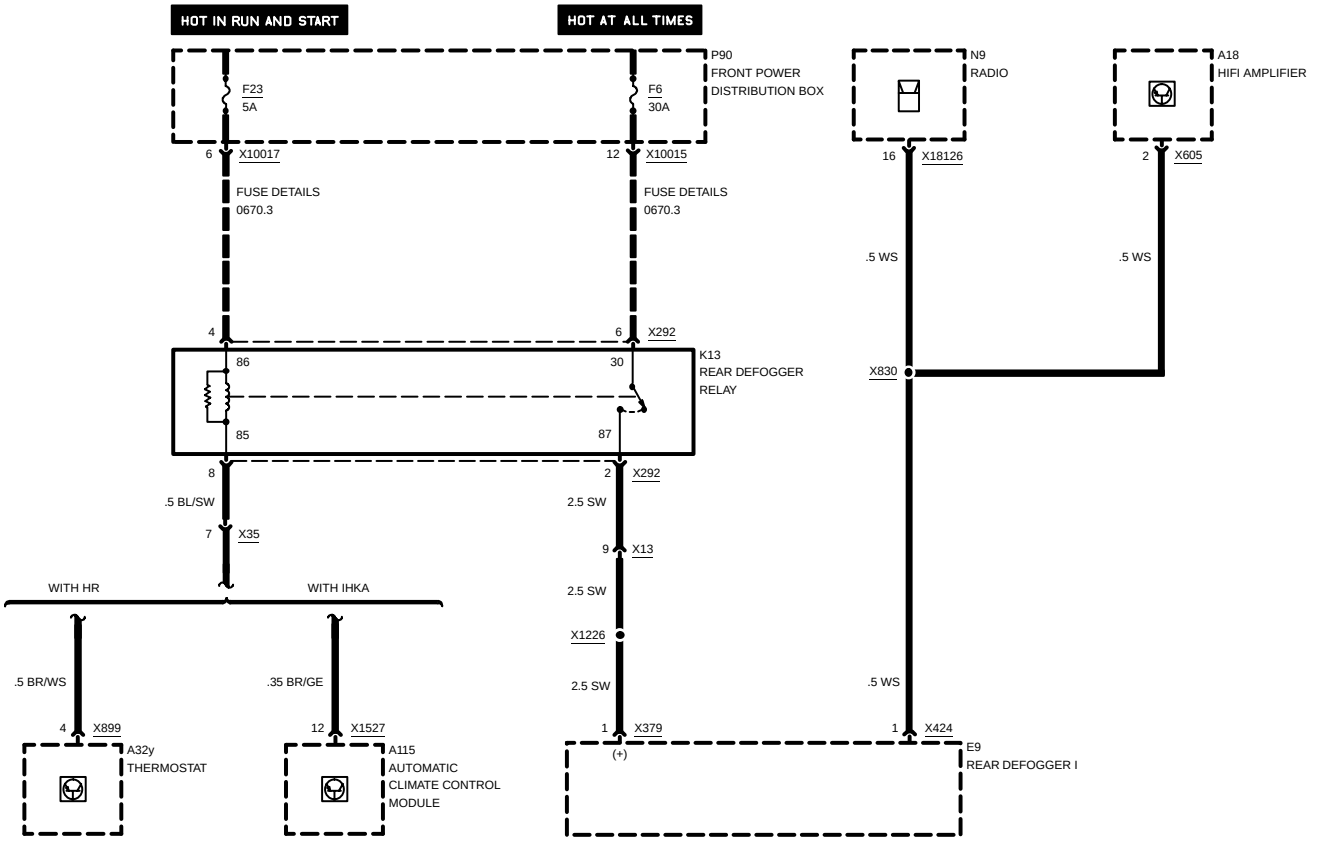
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6412.20 PARK VENTILATION WITH IHKA E36



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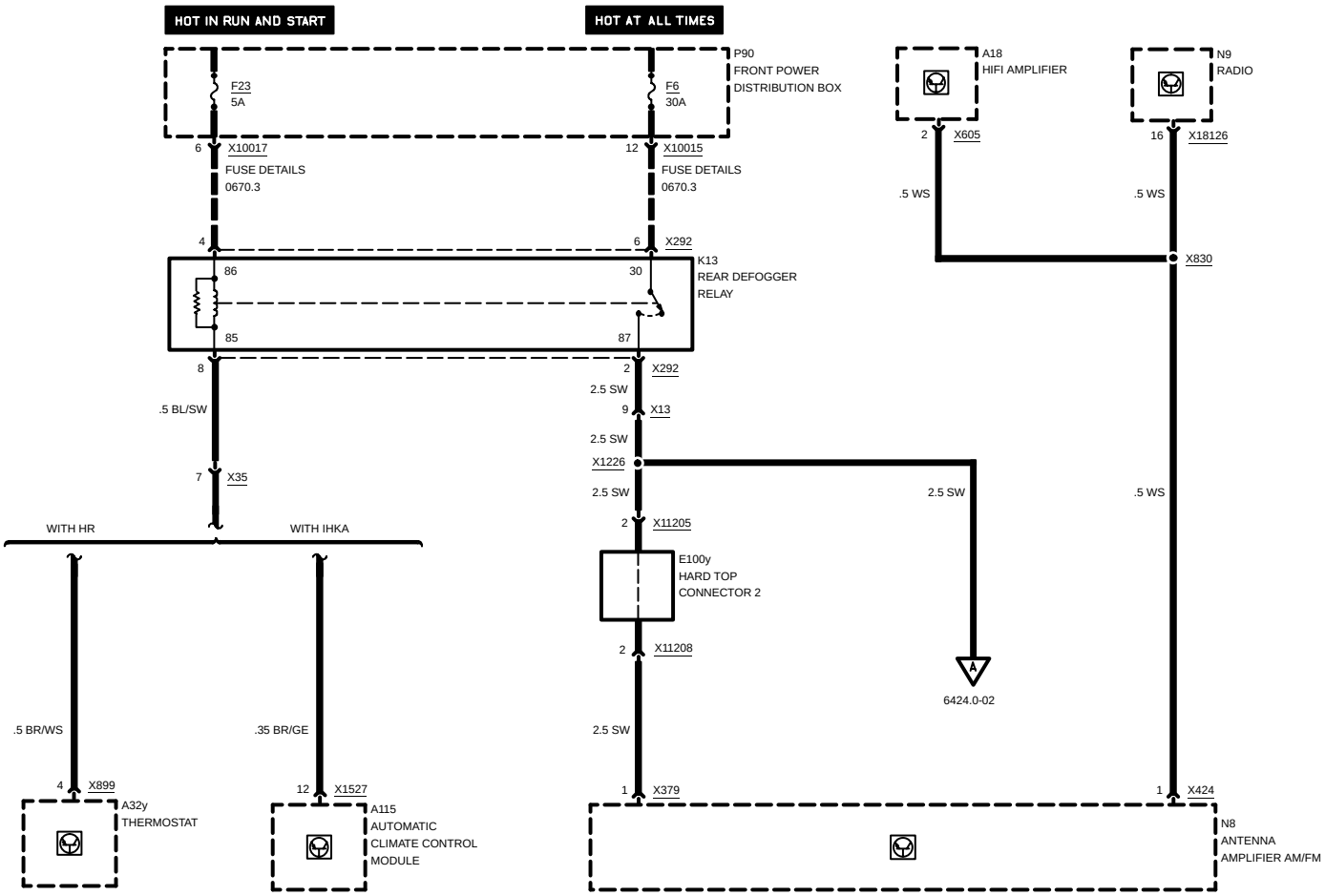
6424.0 REAR WINDOW DEFOGGER/ANTENNA



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REAR WINDOW DEFOGGER/ANTENNA

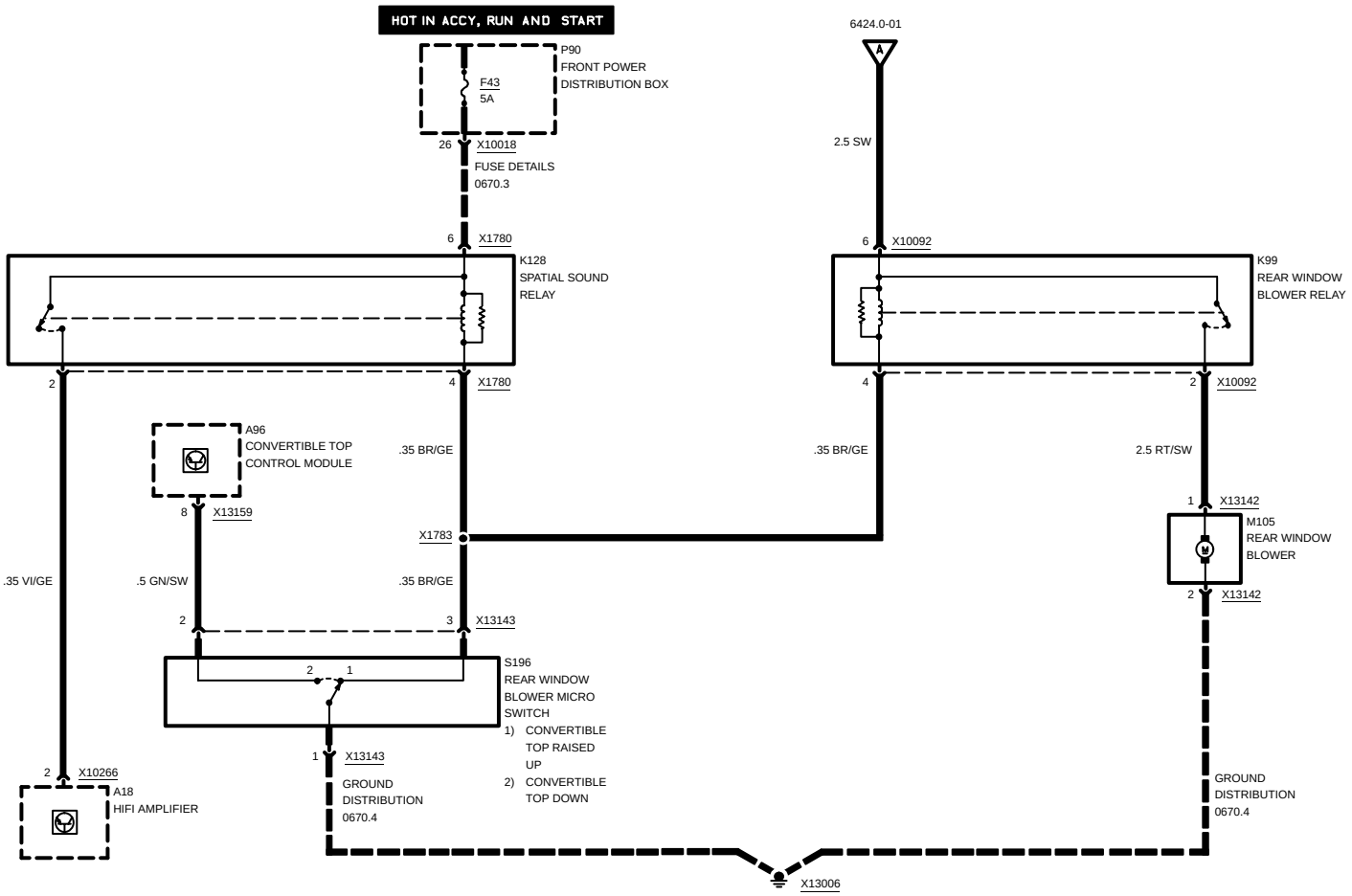
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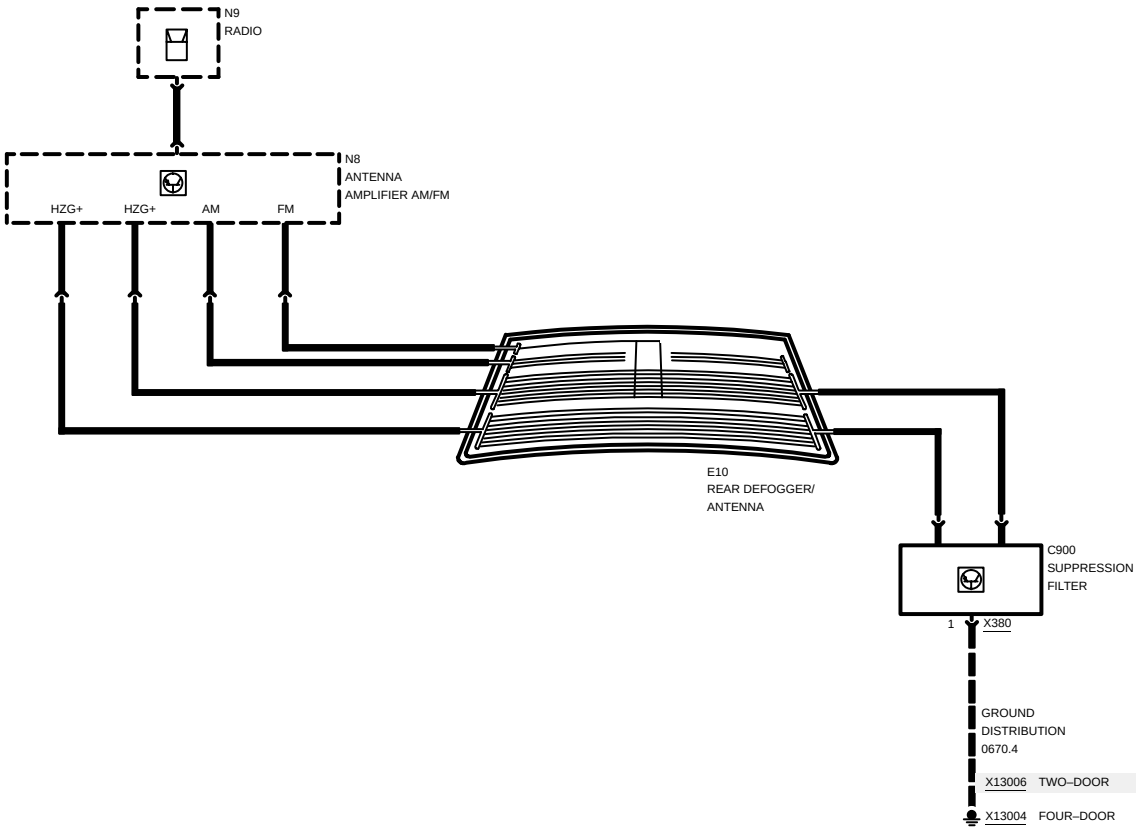
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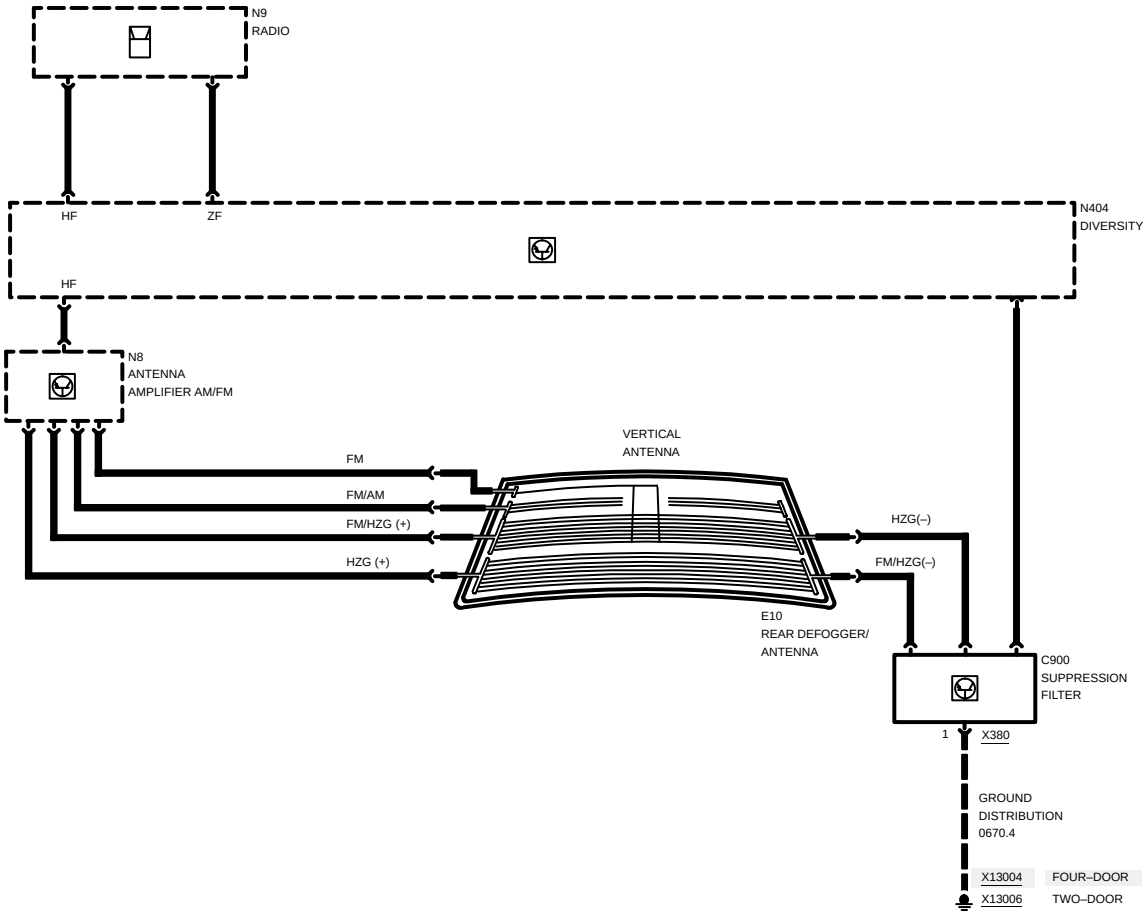
REAR WINDOW ANTENNA



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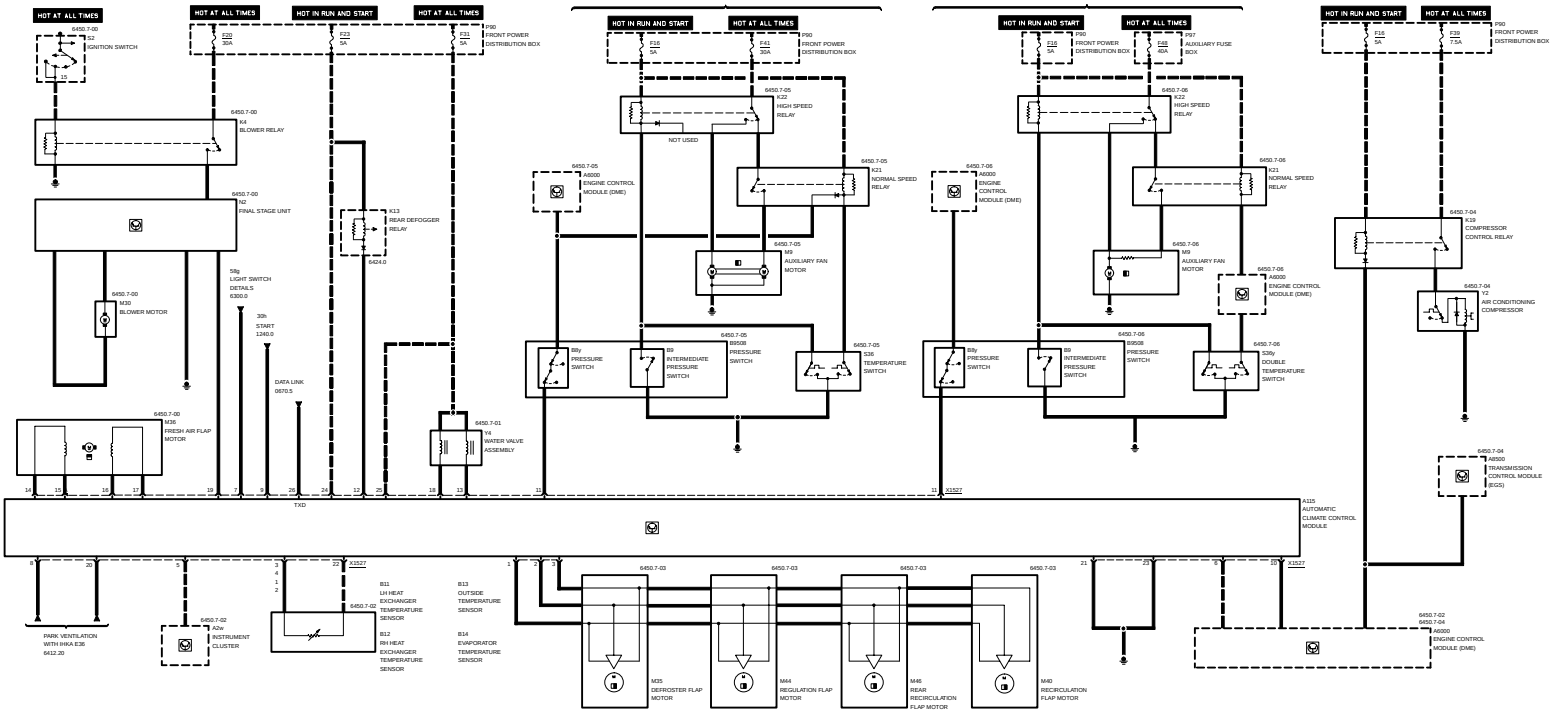
REAR WINDOW DEFOGGER/ANTENNA

3–ANTENNA–DIVERSITY

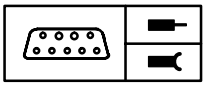


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6450.7 INTEGRATED CLIMATE REGULATION (IHKA E36)



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Pin Assignments

X1527

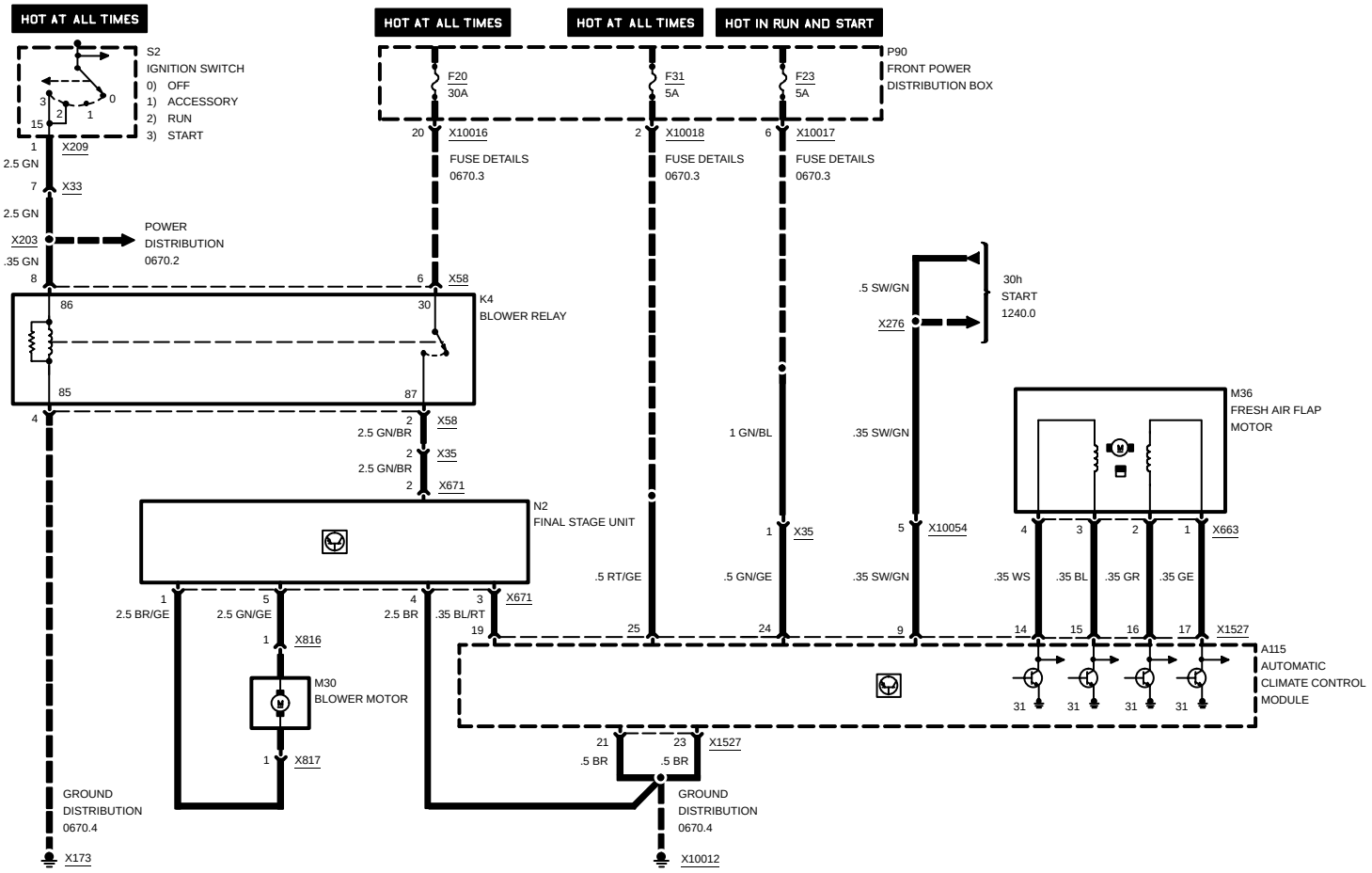
Pin	Type	Description/Function	Connection
1	E	Outside temperature	Outside temperature sensor
2	E	Evaporator temperature	Evaporator temperature sensor
3	E	Heater temperature, left	Left heat exchanger temperature sensor
4	E	Heater temperature, right	Right heat exchanger temperature sensor
5	E	Vehicle speed signal (Speedometer output signal)	Instrument cluster
6	E	RPM speed signal TD	Engine control module (DME)
7	E	Illumination input	Illumination
8	A	Output signal	On-board computer
9	E	Terminal 50	Starter
10	A	RPM speed increase	Engine control module (DME)
11	A	A/C compressor activation	Pressure switch
12	A	Rear window signal	Rear window
13	A	Water valve activation, right	Right water valve
14	A	Fresh air flap motor activation	Fresh air flap motor
15	A	Fresh air flap motor activation	Fresh air flap motor
16	A	Fresh air flap motor activation	Fresh air flap motor
17	A	Fresh air flap motor activation	Fresh air flap motor
18	A	Water valve activation, left	Left water valve
19	A	A/C fan activation	A/C fan final stage
20	E	Independent ventilation	Relay box
21	M	Ground	Control panel
22	M	Ground	Mixing actuator
23	M	Ground	Control panel
24	E	Terminal 15	Fuse
25	E	Terminal 30	Fuse
26	E/A	Diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

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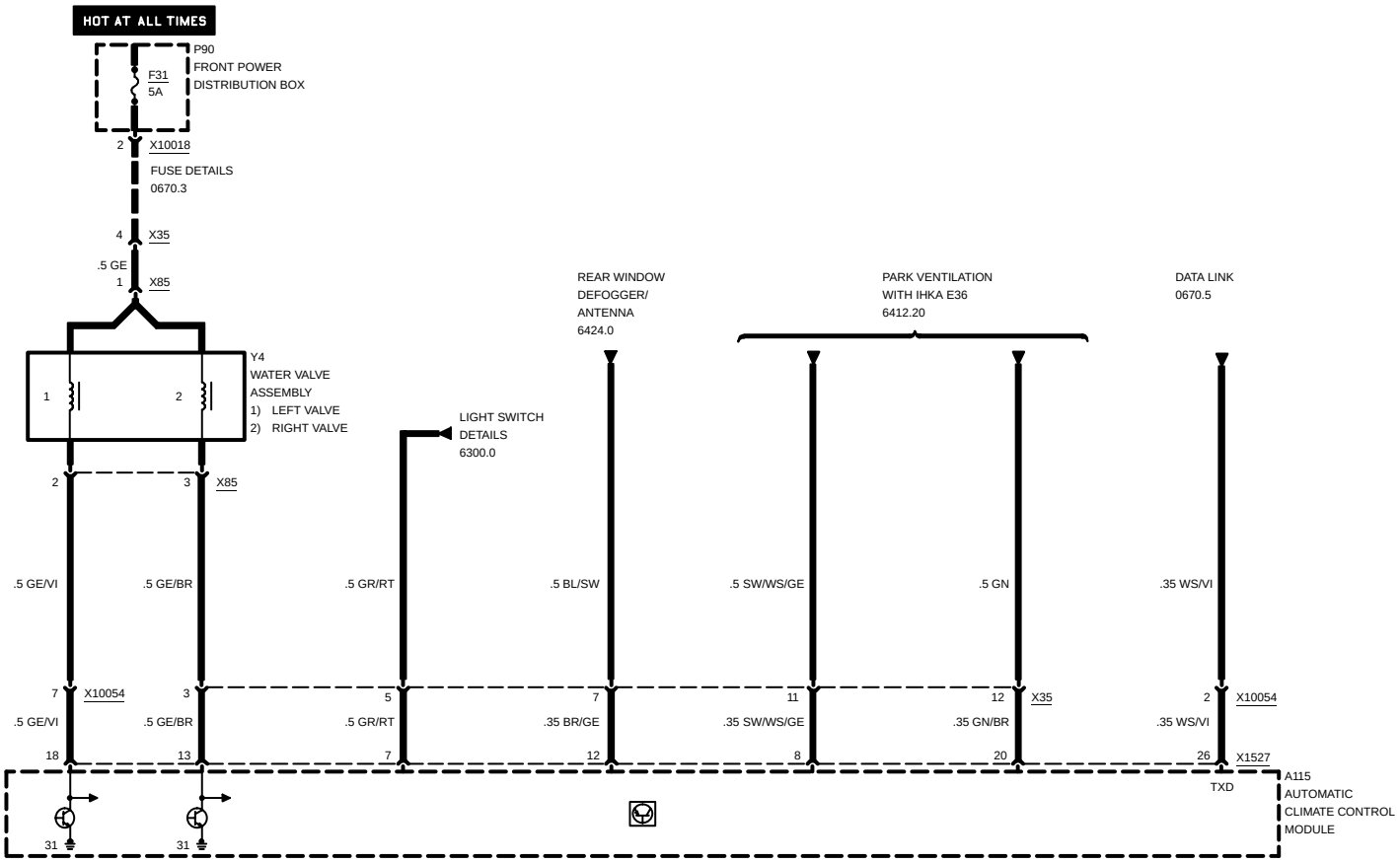
INTEGRATED CLIMATE REGULATION (IHKA E36)

POWER, AIR FLOW CONTROL



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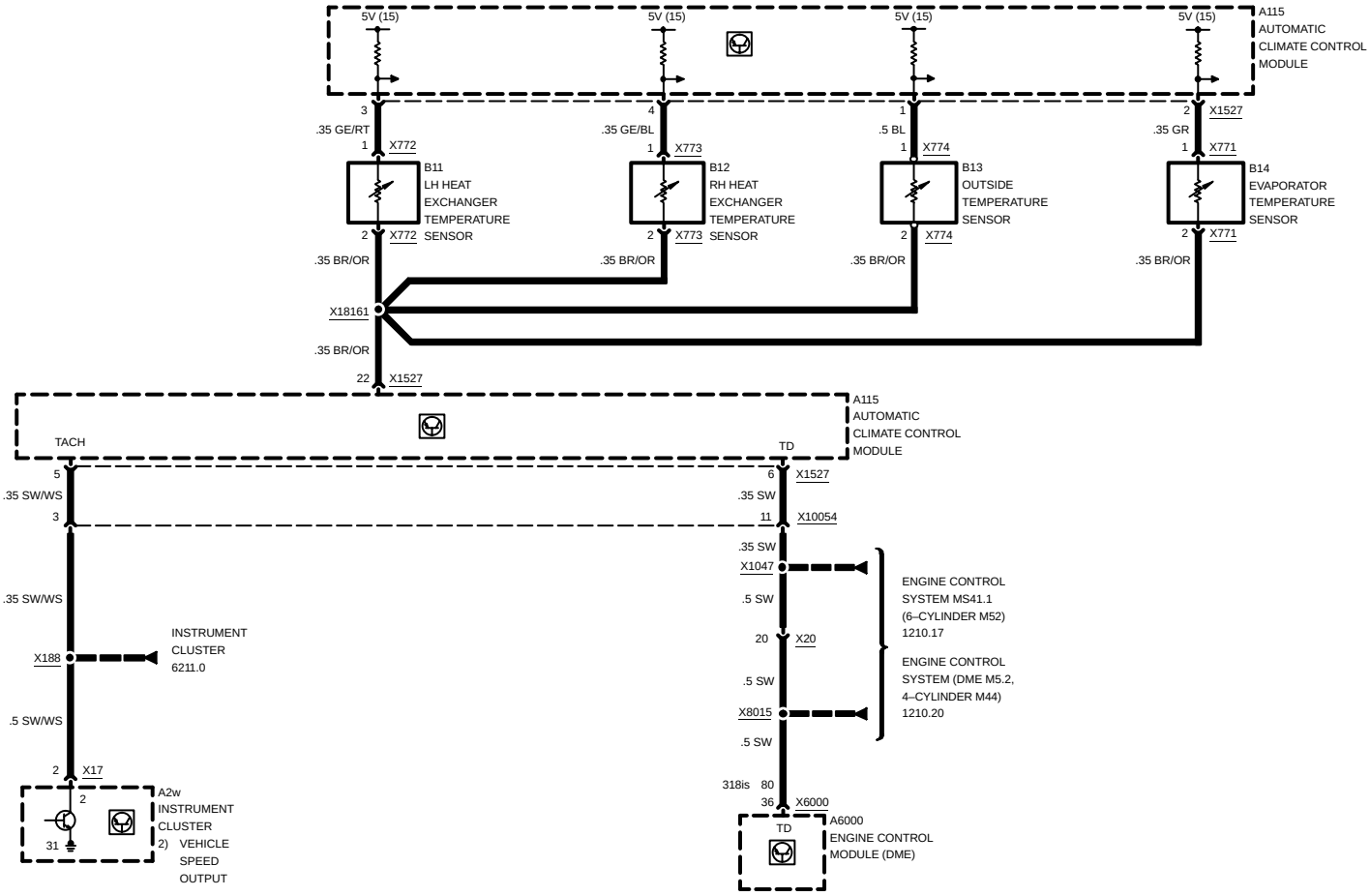
INTEGRATED CLIMATE REGULATION (IHKA E36)



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INTEGRATED CLIMATE REGULATION (IHKA E36)

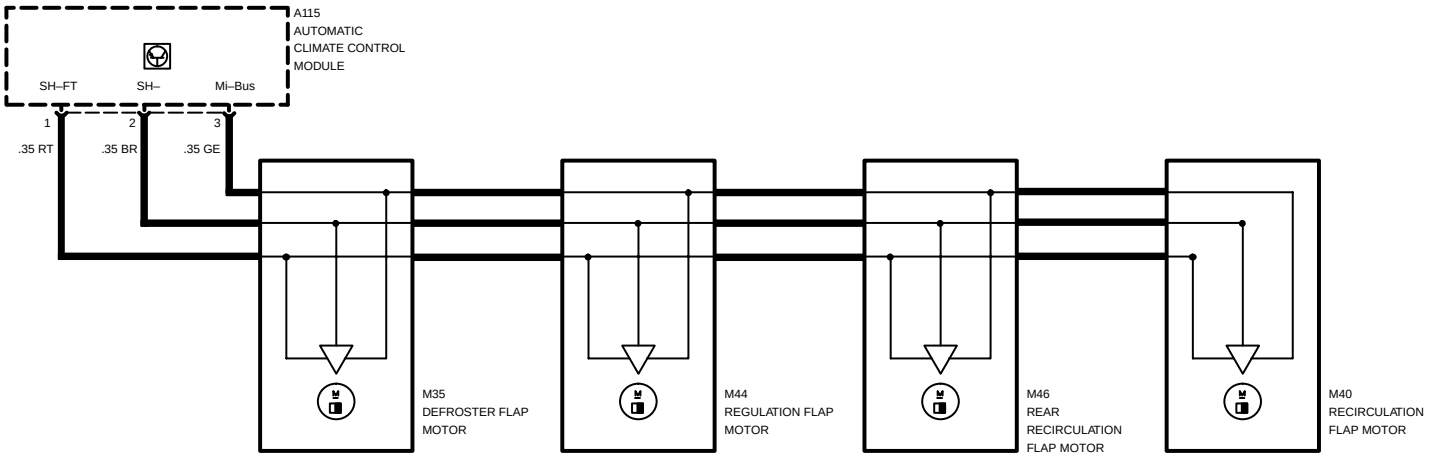
TEMPERATURE CONTROL



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INTEGRATED CLIMATE REGULATION (IHKA E36)

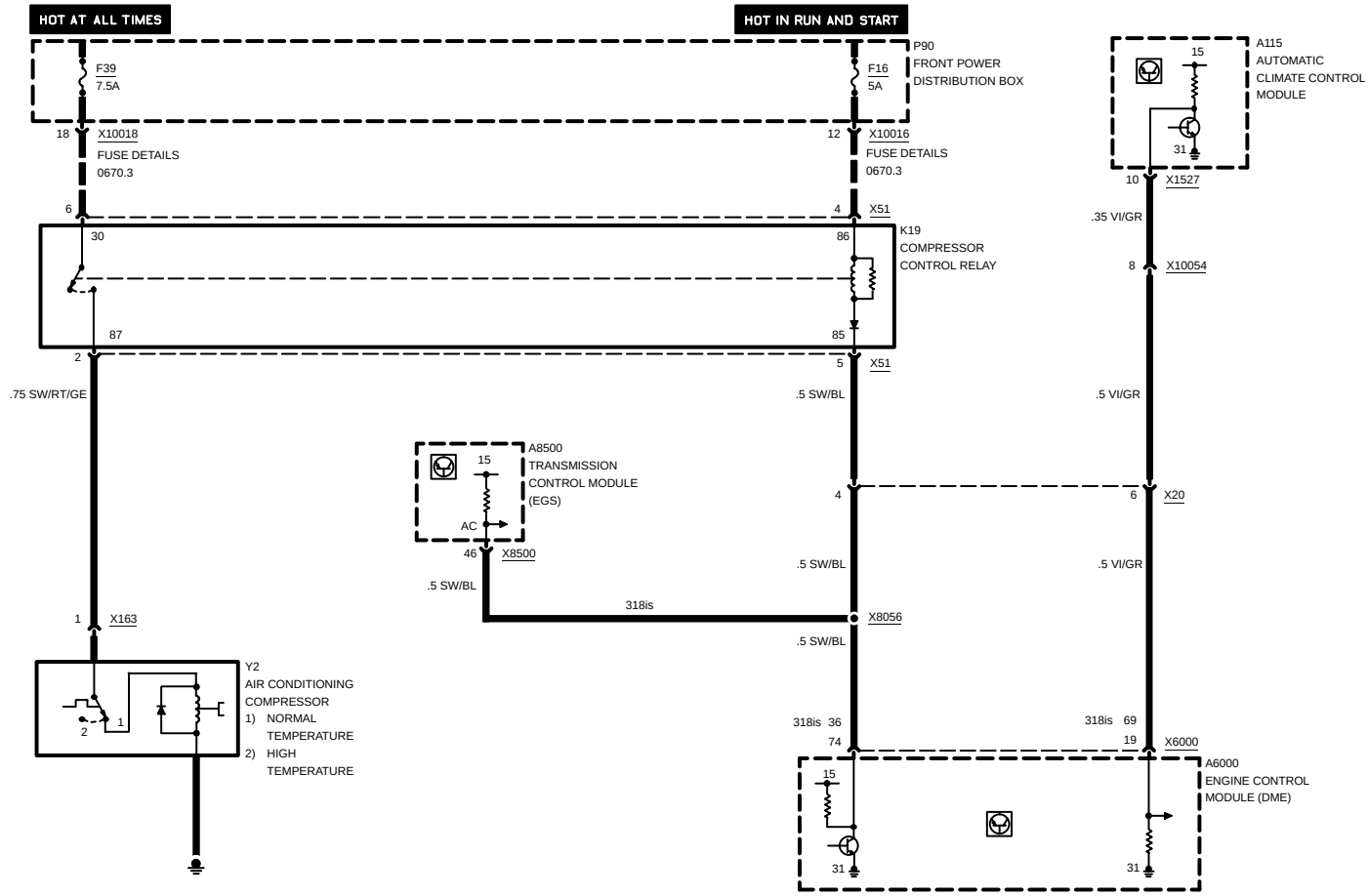
AIR DELIVERY



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INTEGRATED CLIMATE REGULATION (IHKA E36)

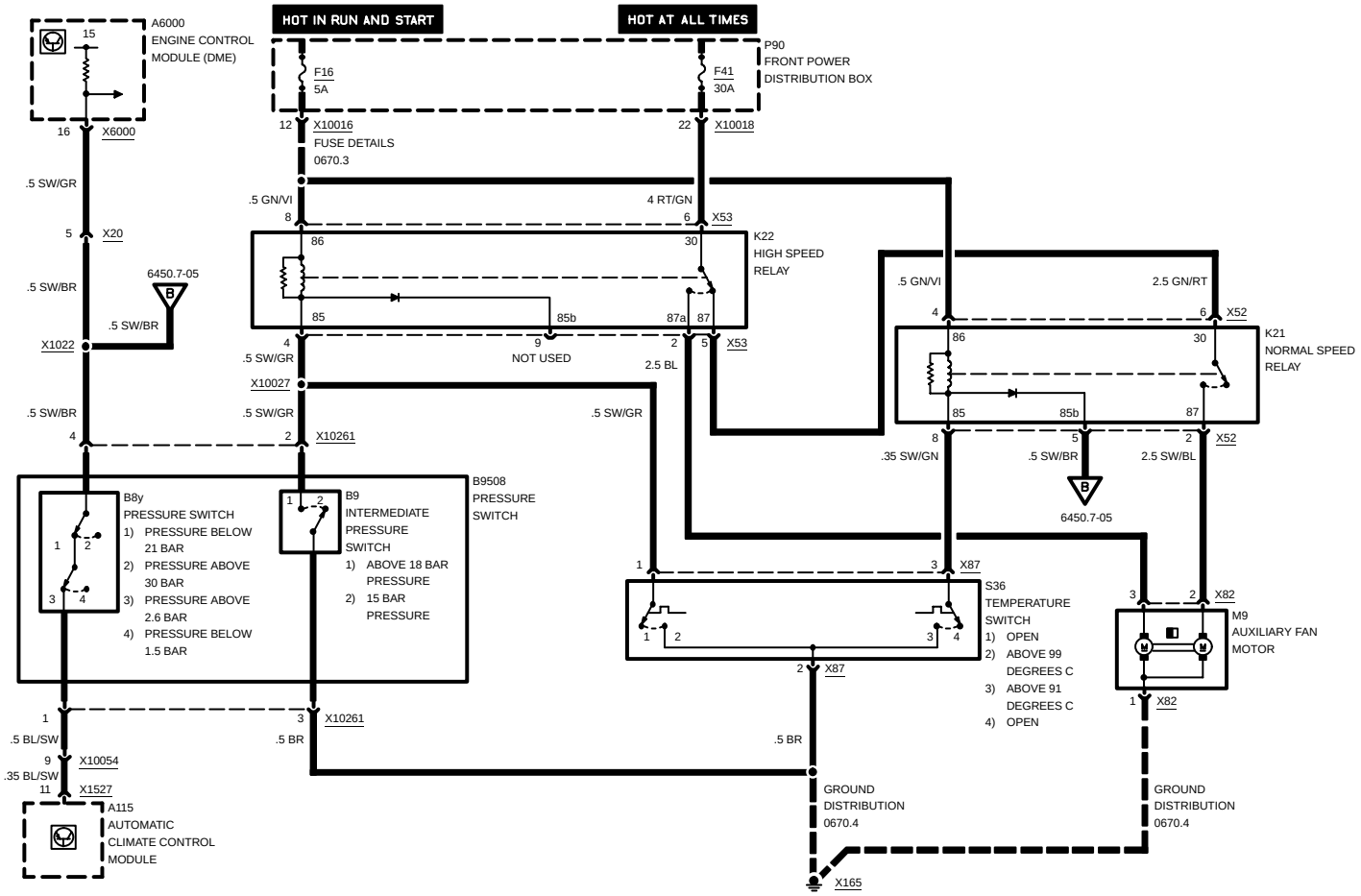
COMPRESSOR CONTROLS



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INTEGRATED CLIMATE REGULATION (IHKA E36)

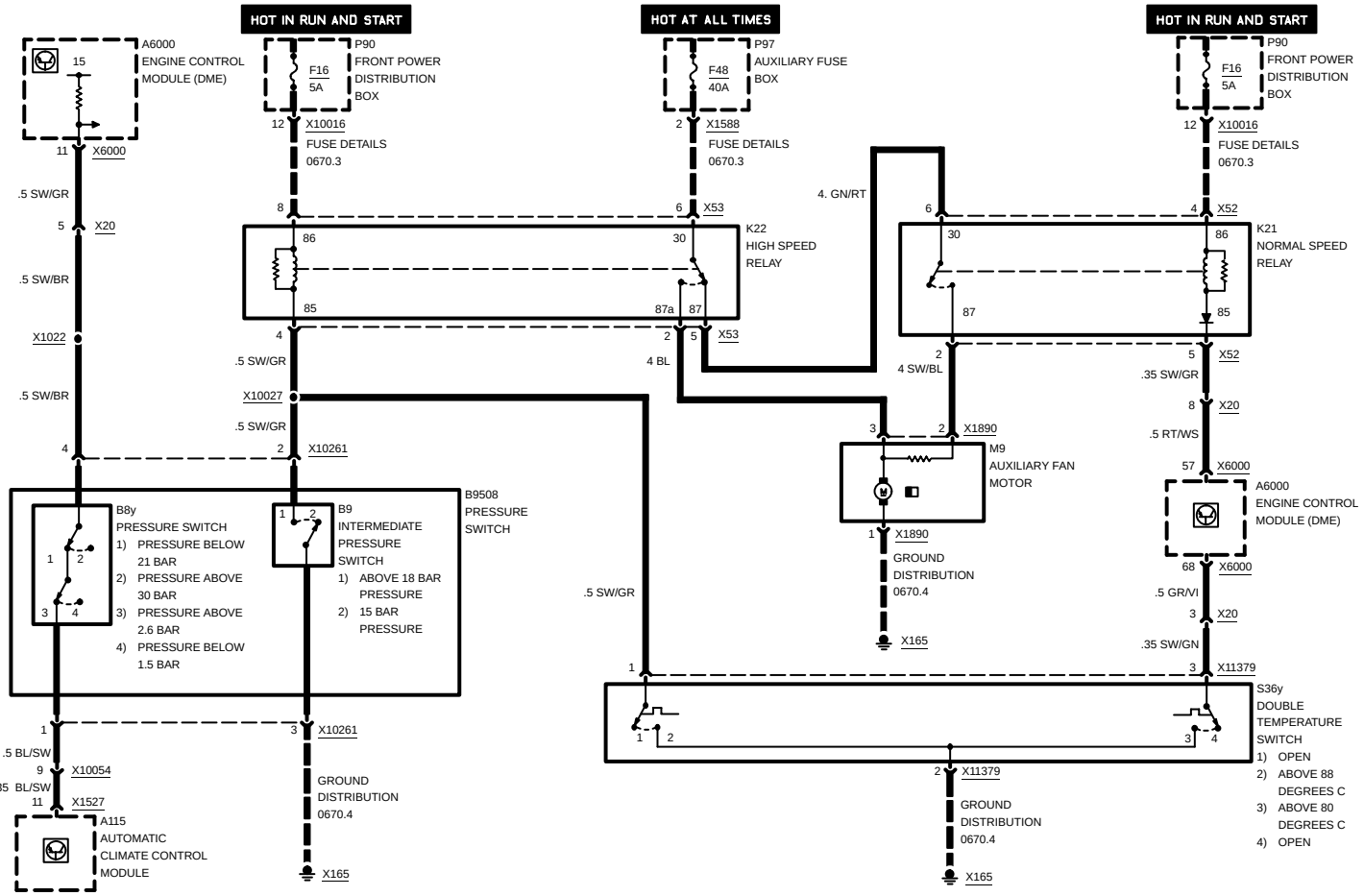
AUXILIARY FAN – 6–CYLINDER ENGINE



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INTEGRATED CLIMATE REGULATION (IHKA E36)

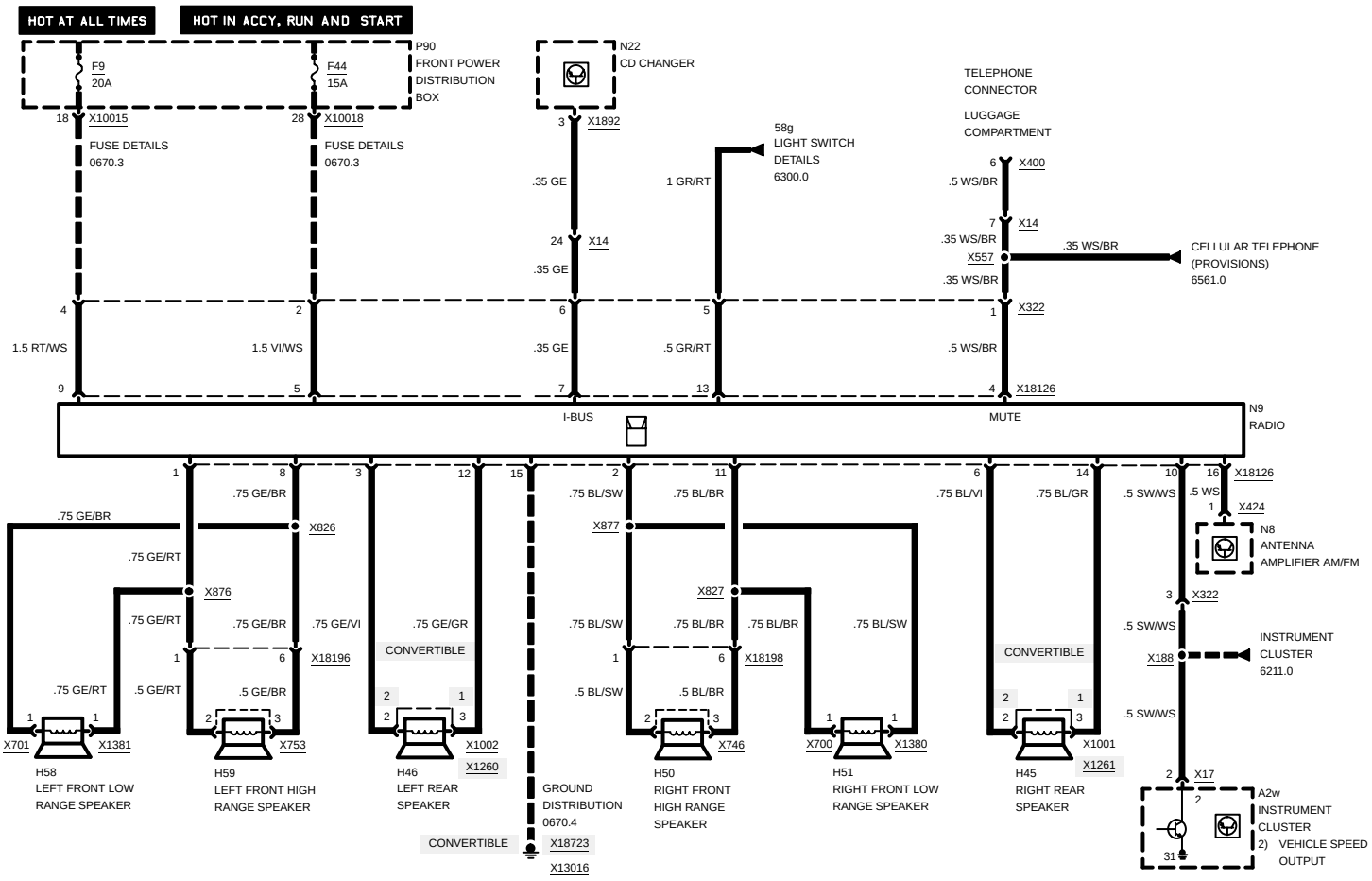
AUXILIARY FAN – 4–CYLINDER ENGINE



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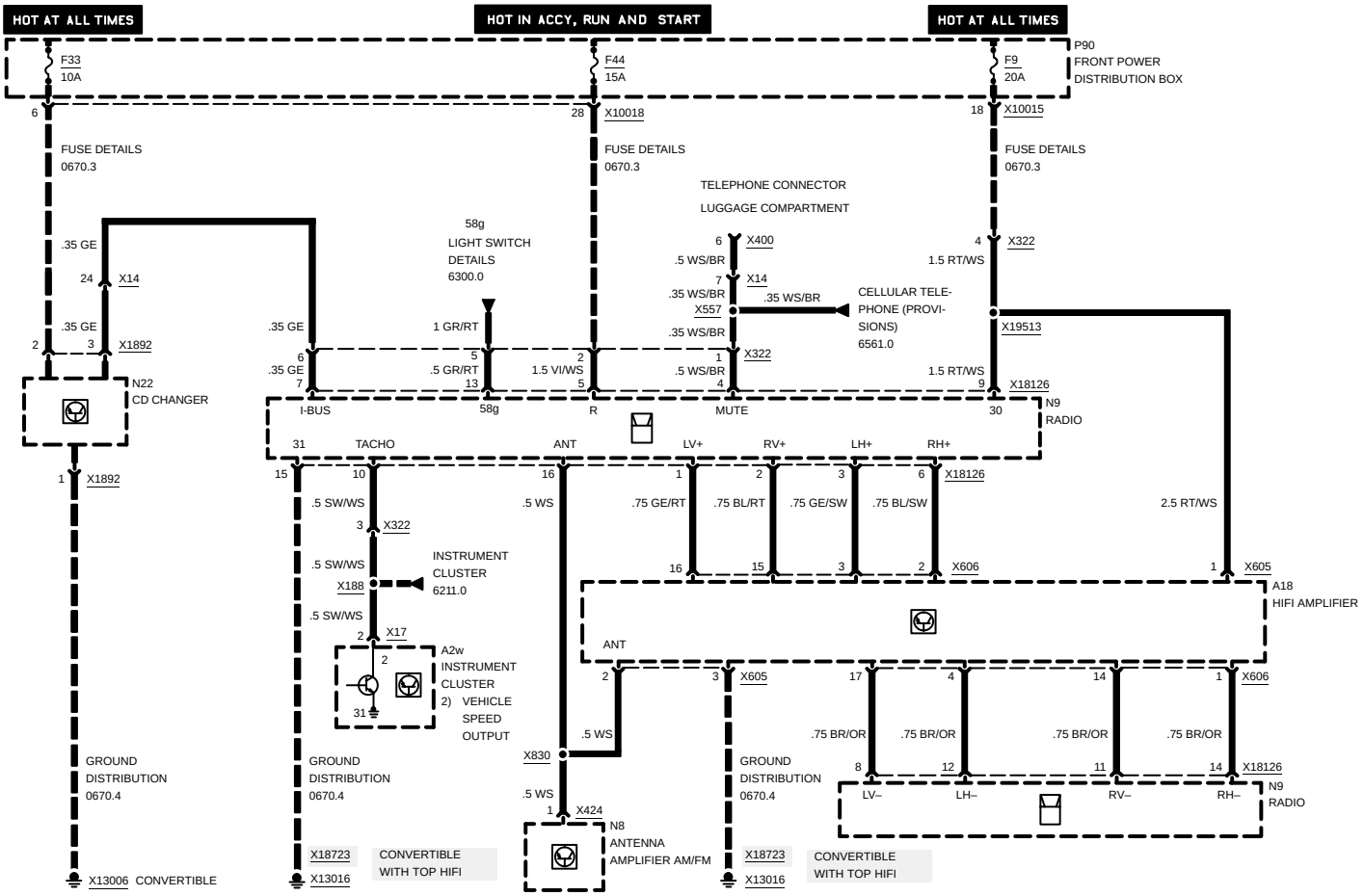
6510.0 RADIO/STEREO

STEREO, 6–SPEAKER SYSTEM



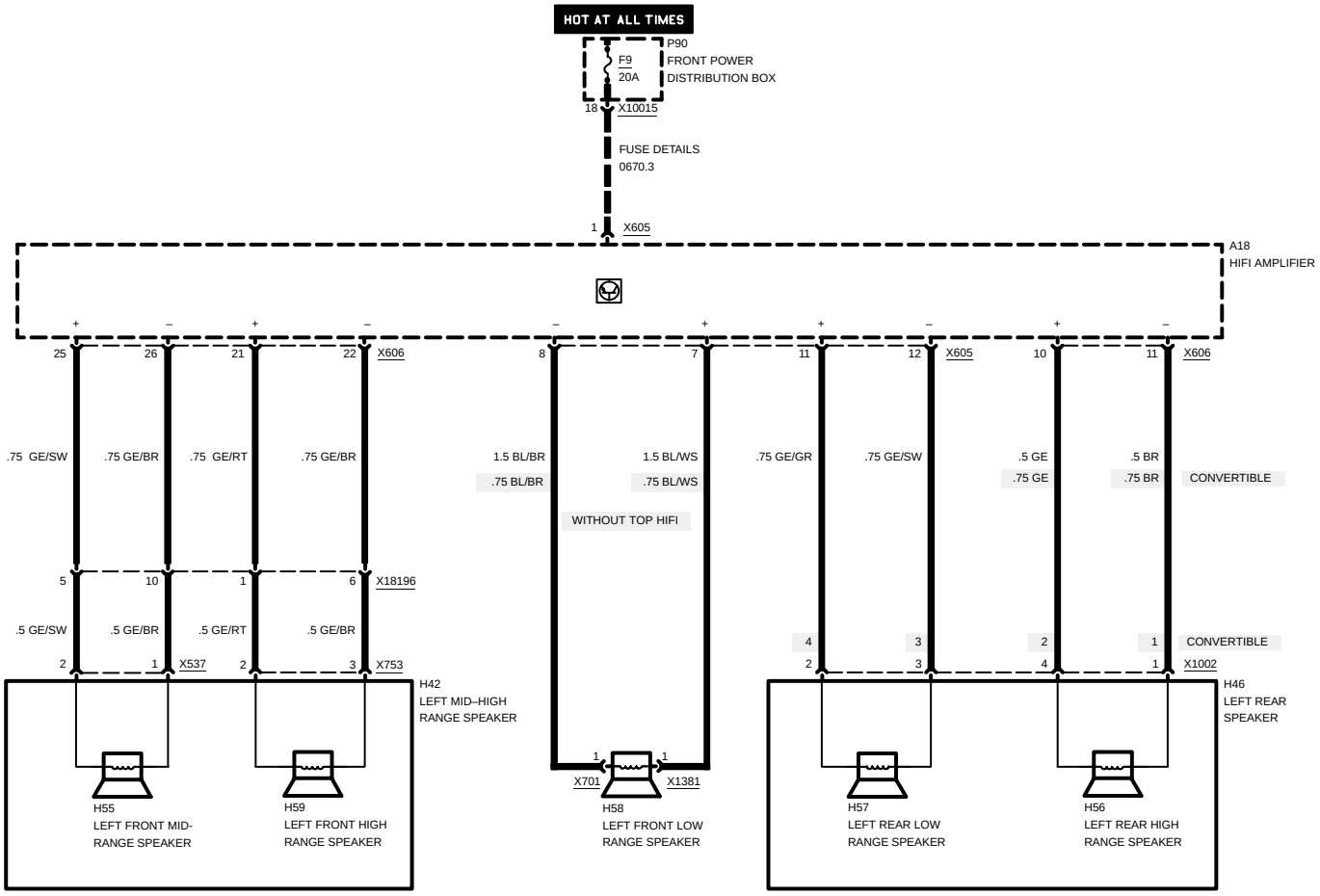
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6510.1 RADIO/HIFI/TOP HIFI



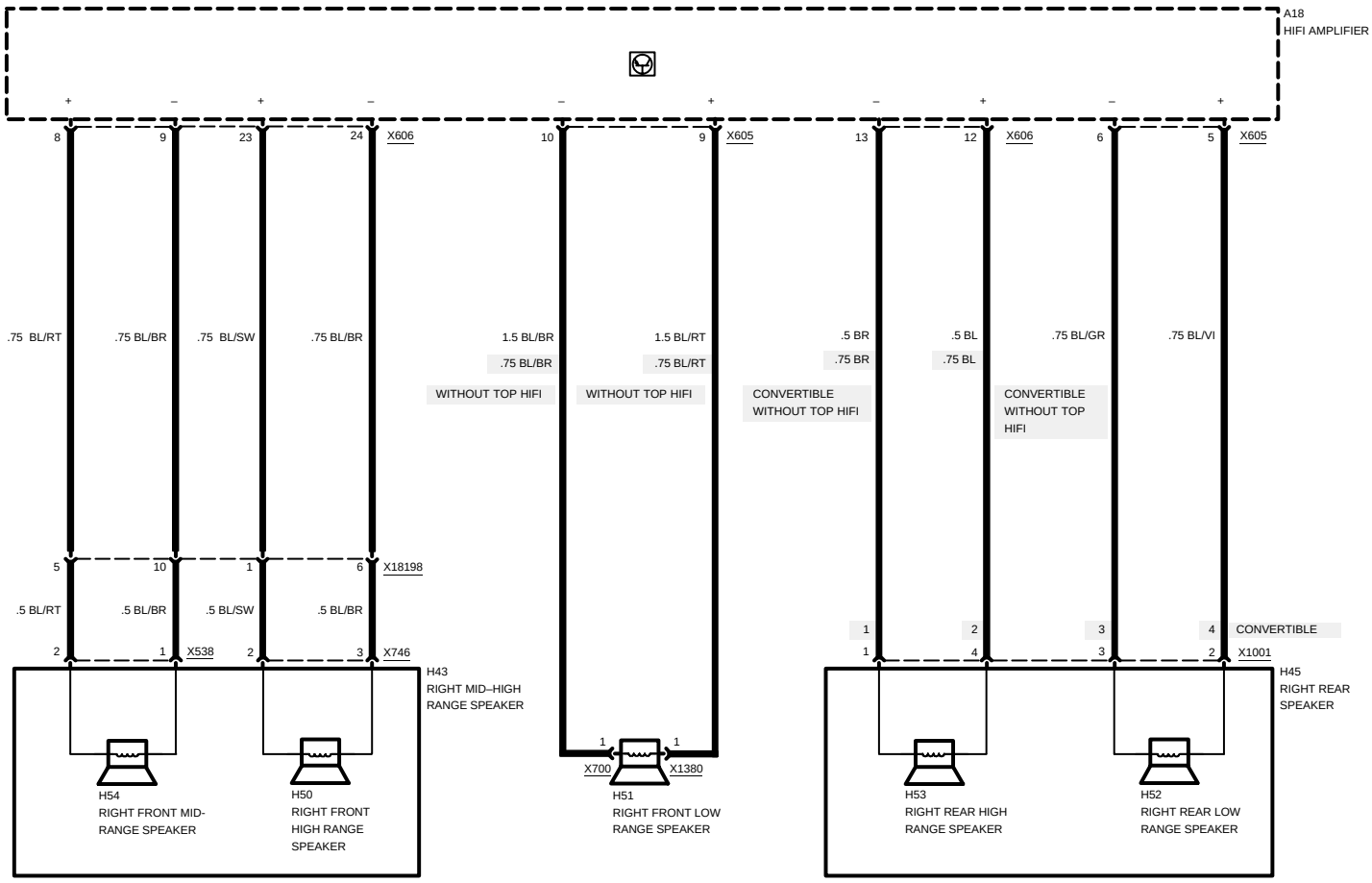
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RADIO/HIFI/TOP HIFI



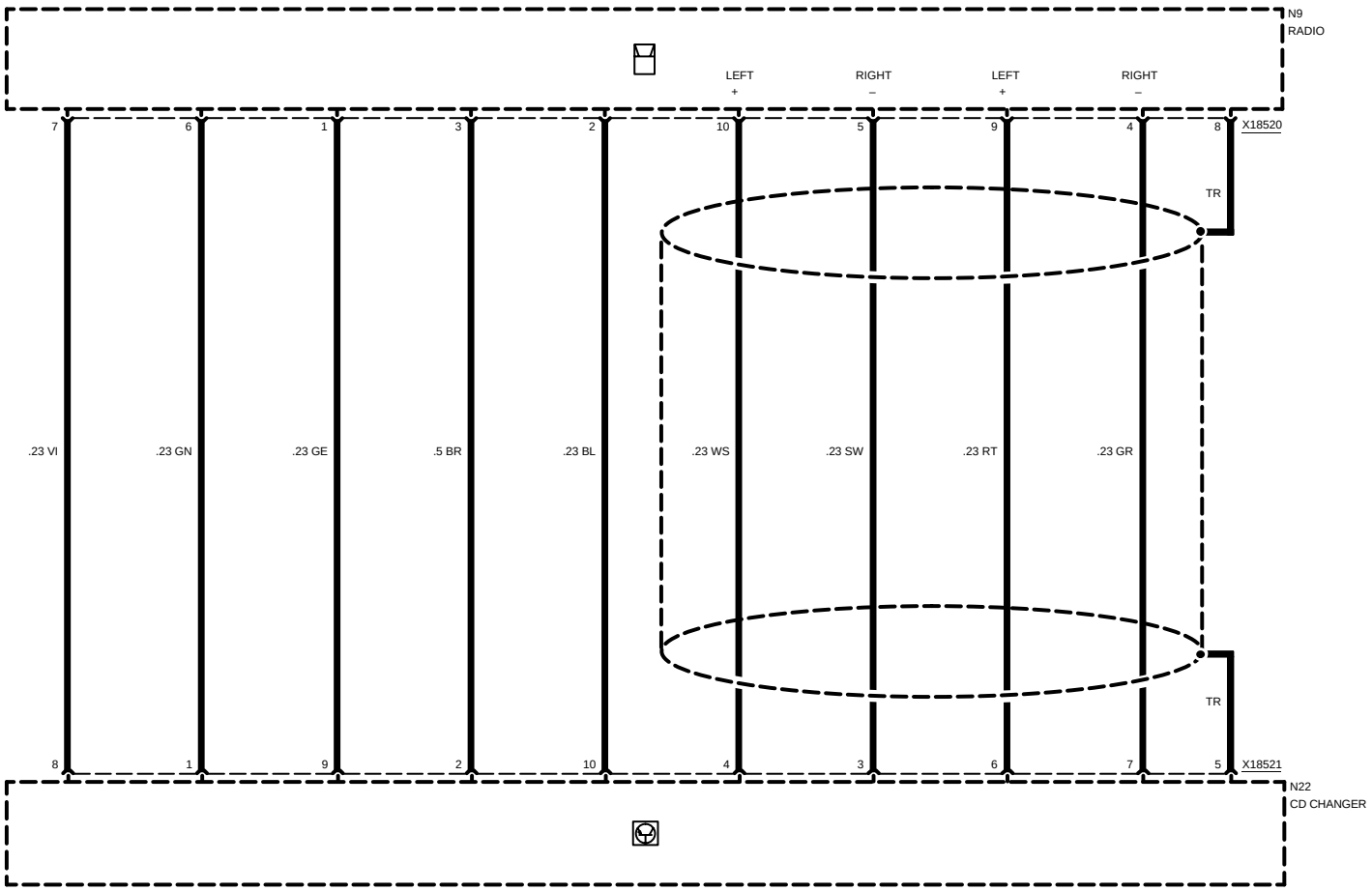
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RADIO/HIFI/TOP HIFI

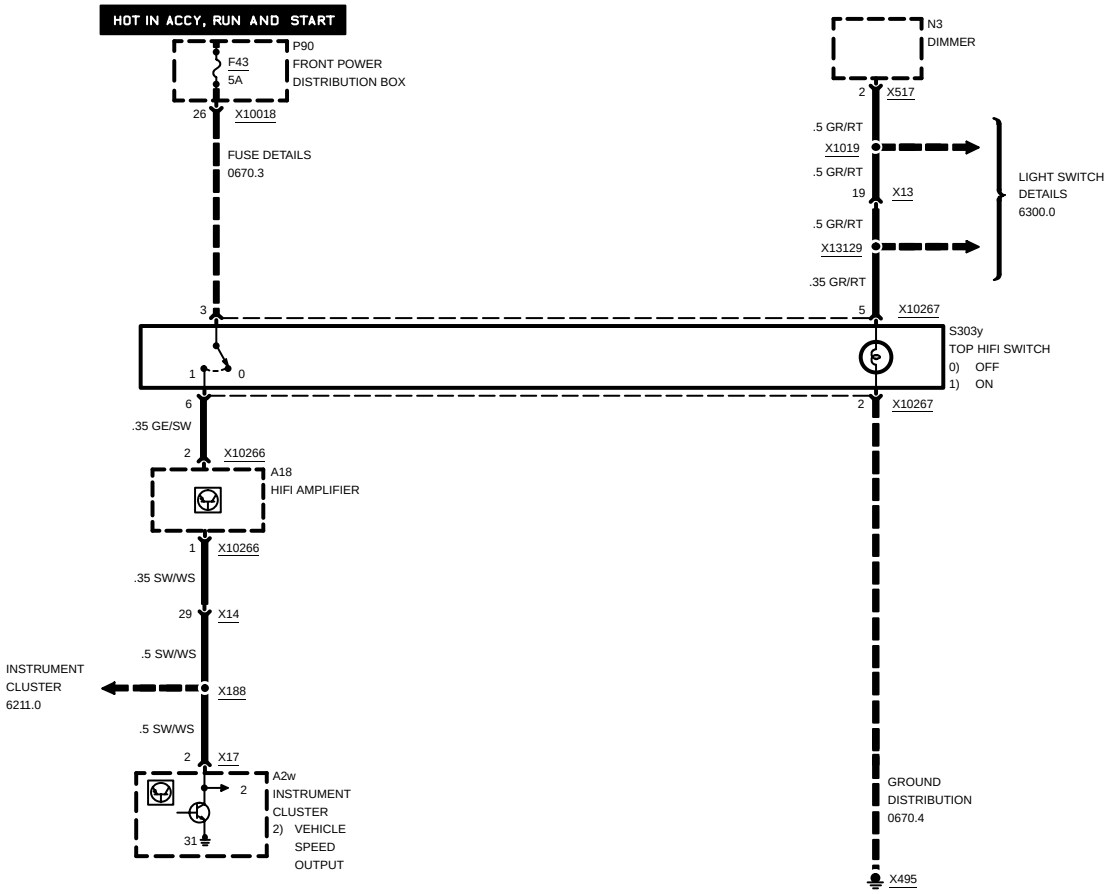


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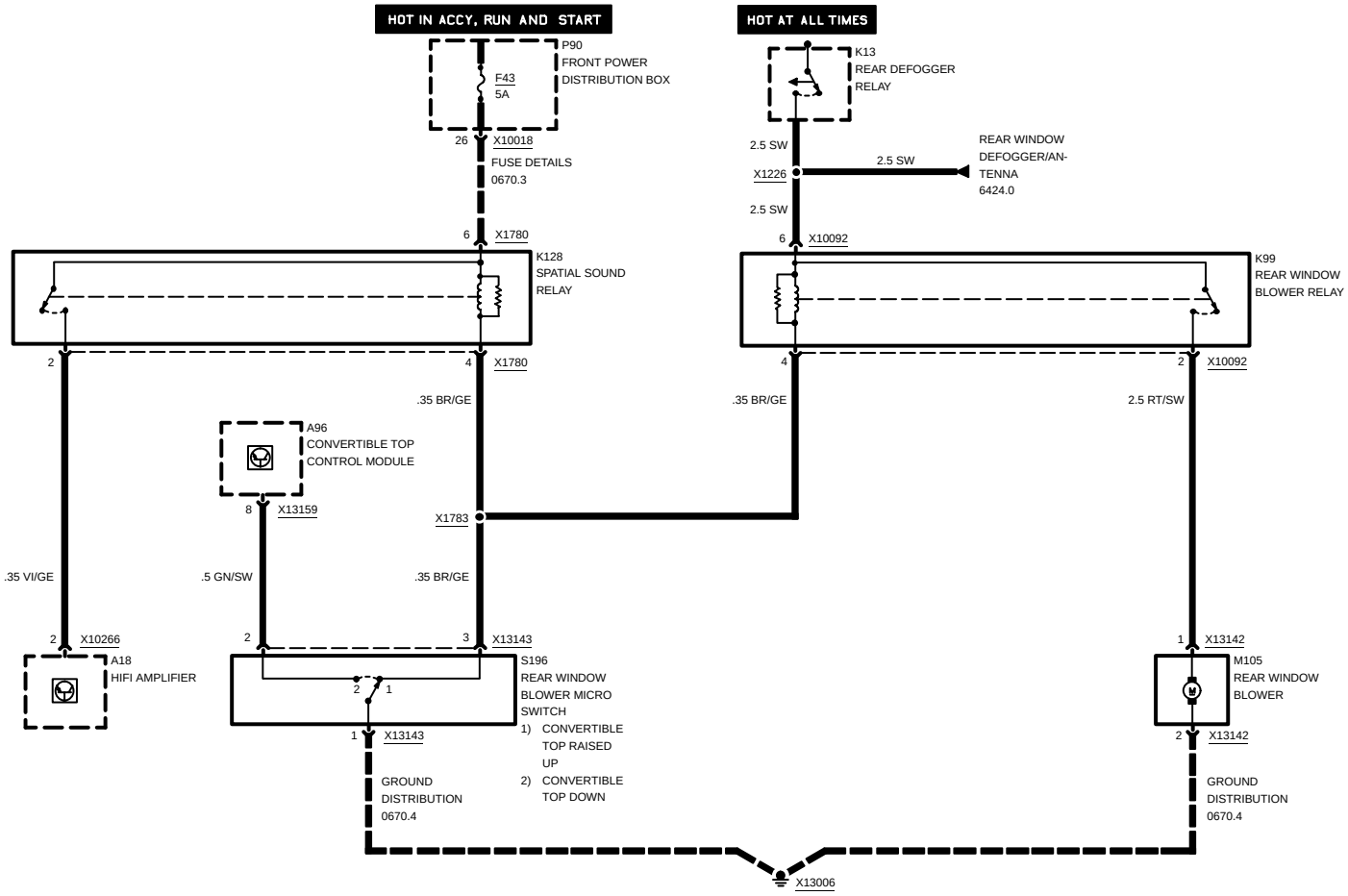
RADIO/HIFI/TOP HIFI



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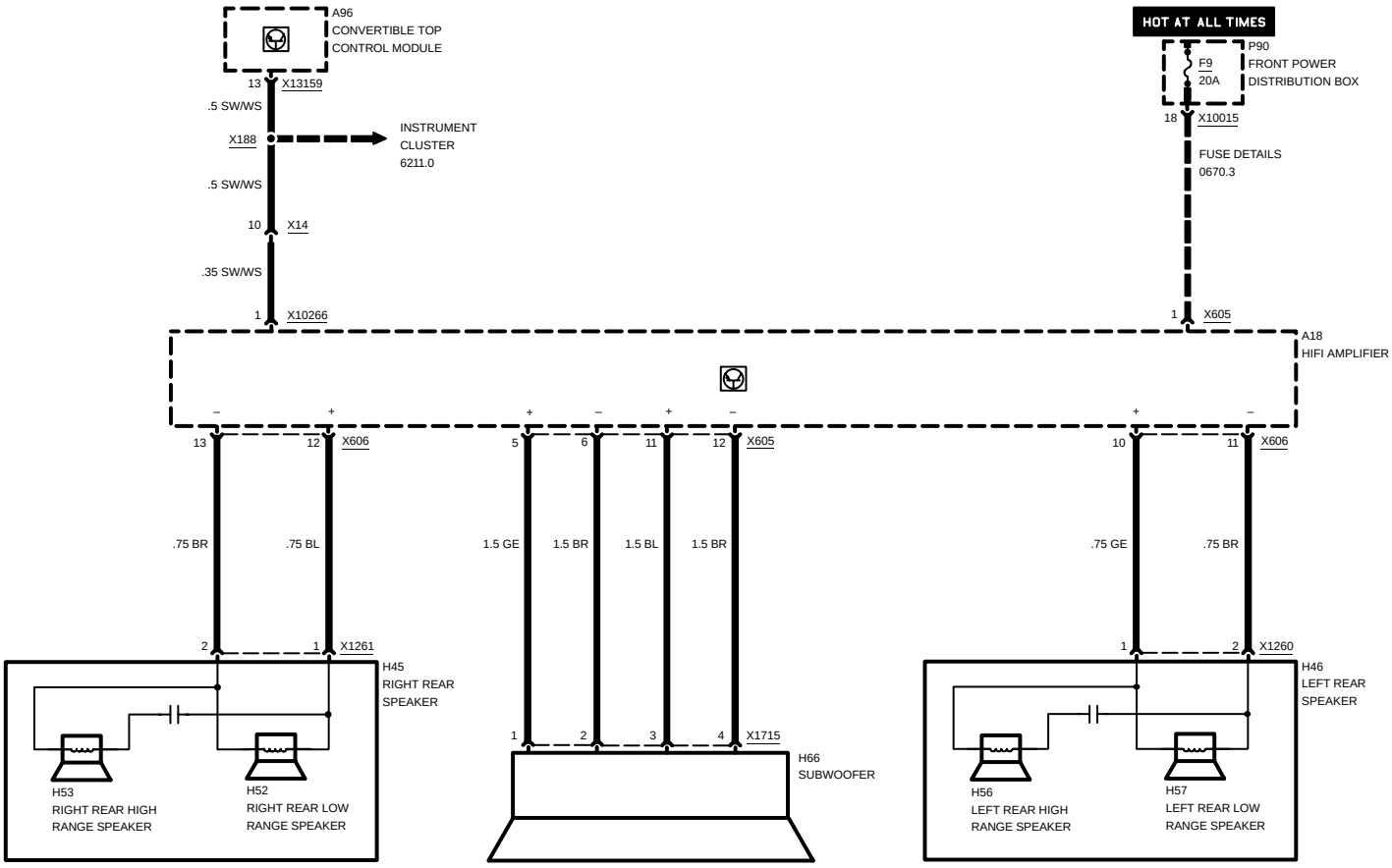


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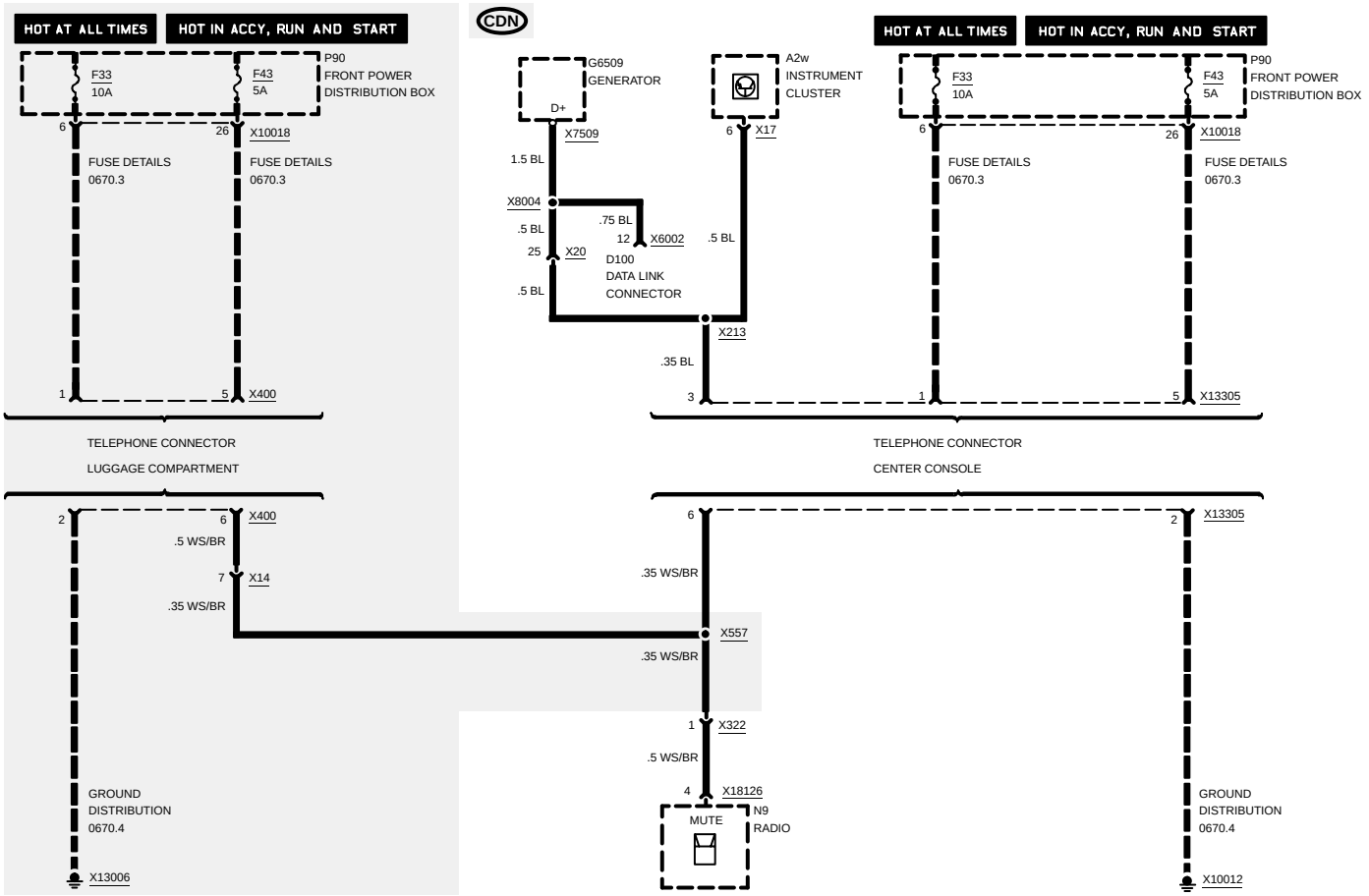
TOP HIFI



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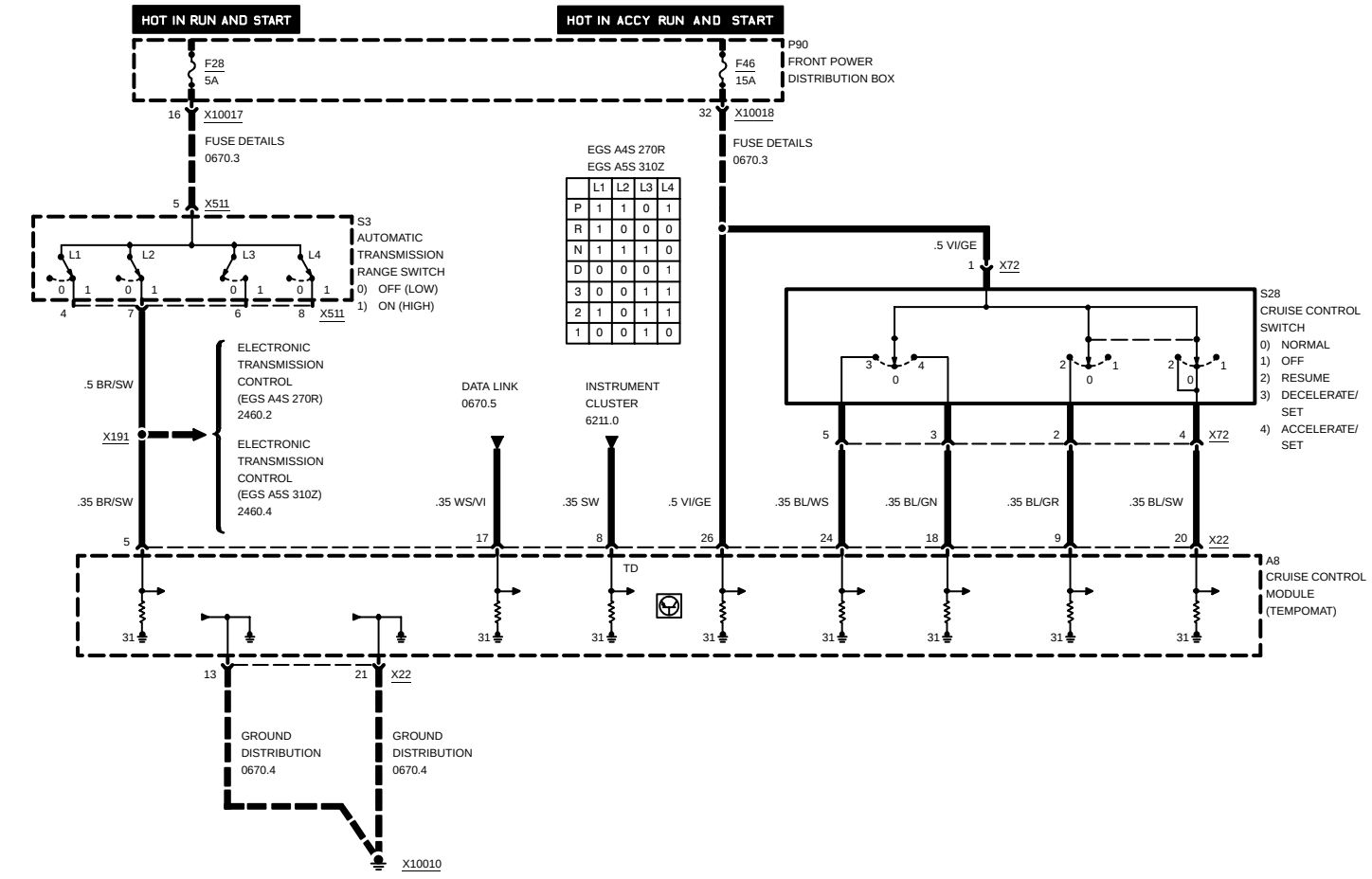
6561.0 CELLULAR TELEPHONE (PROVISIONS)

PROVISIONS



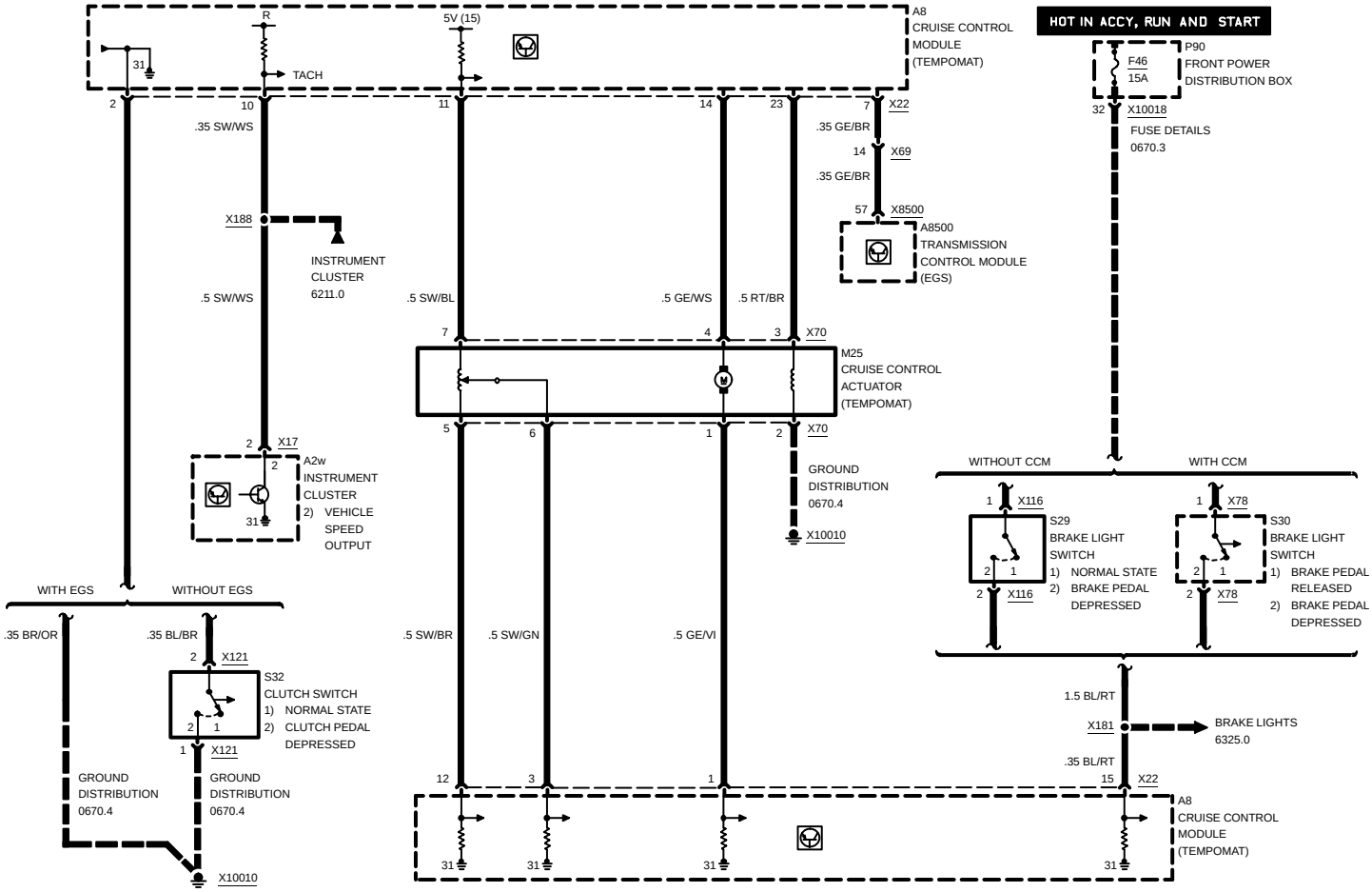
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6571.0 CRUISE CONTROL (TEMPOMAT)



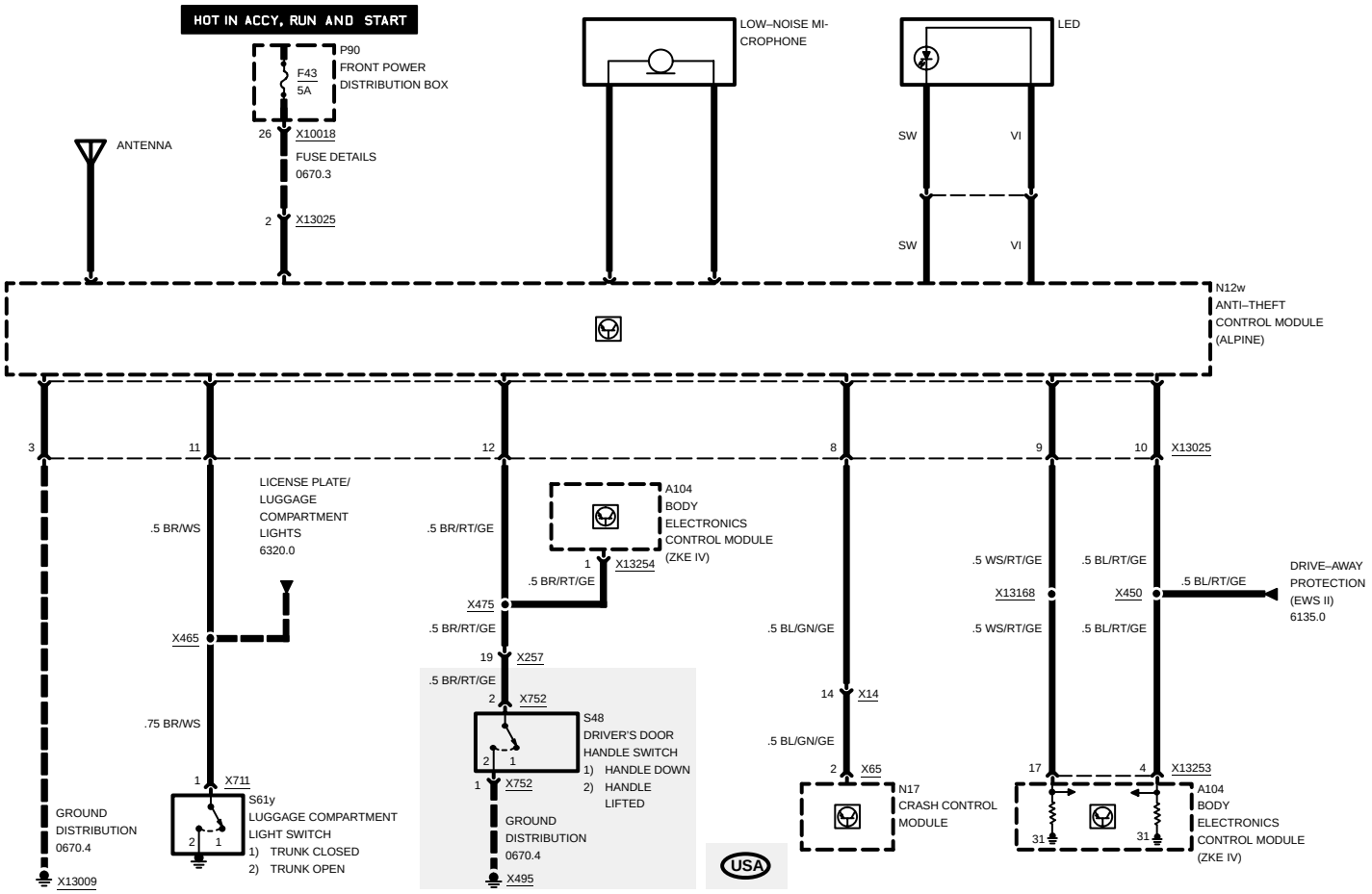
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CRUISE CONTROL (TEMPOMAT)



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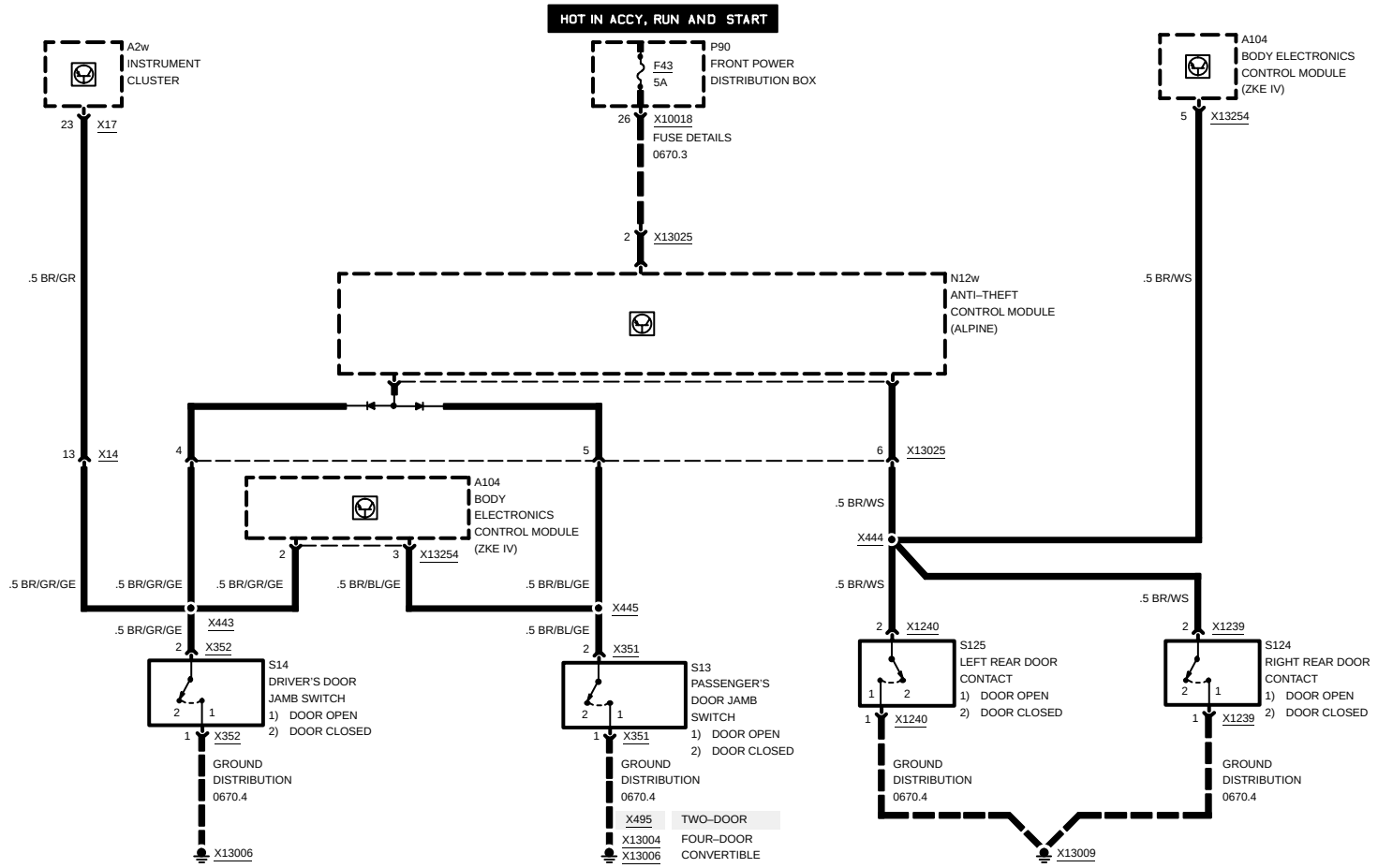
6575.2 ANTI–THEFT SYSTEM (ALPINE)



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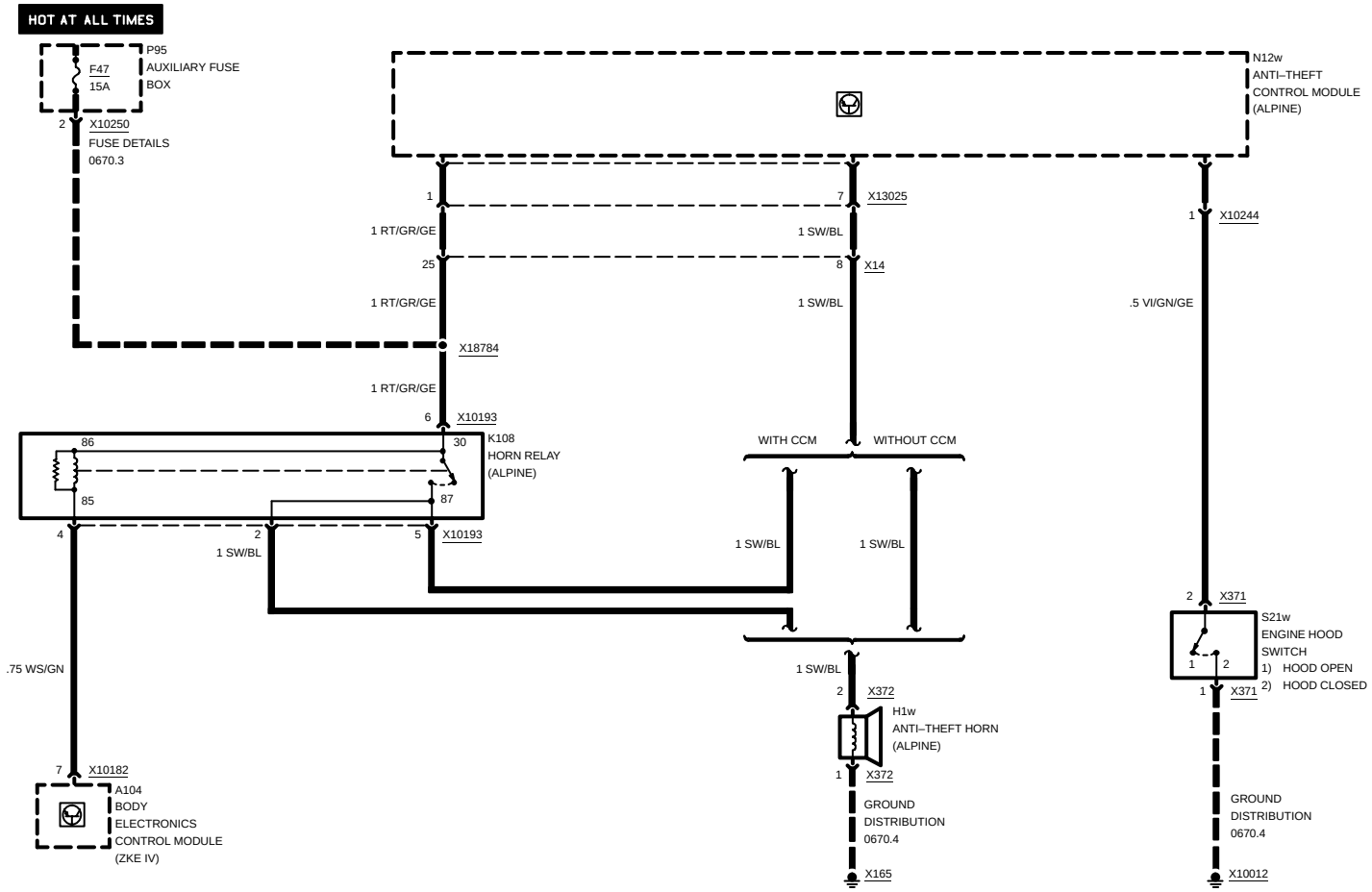
ANTI–THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES



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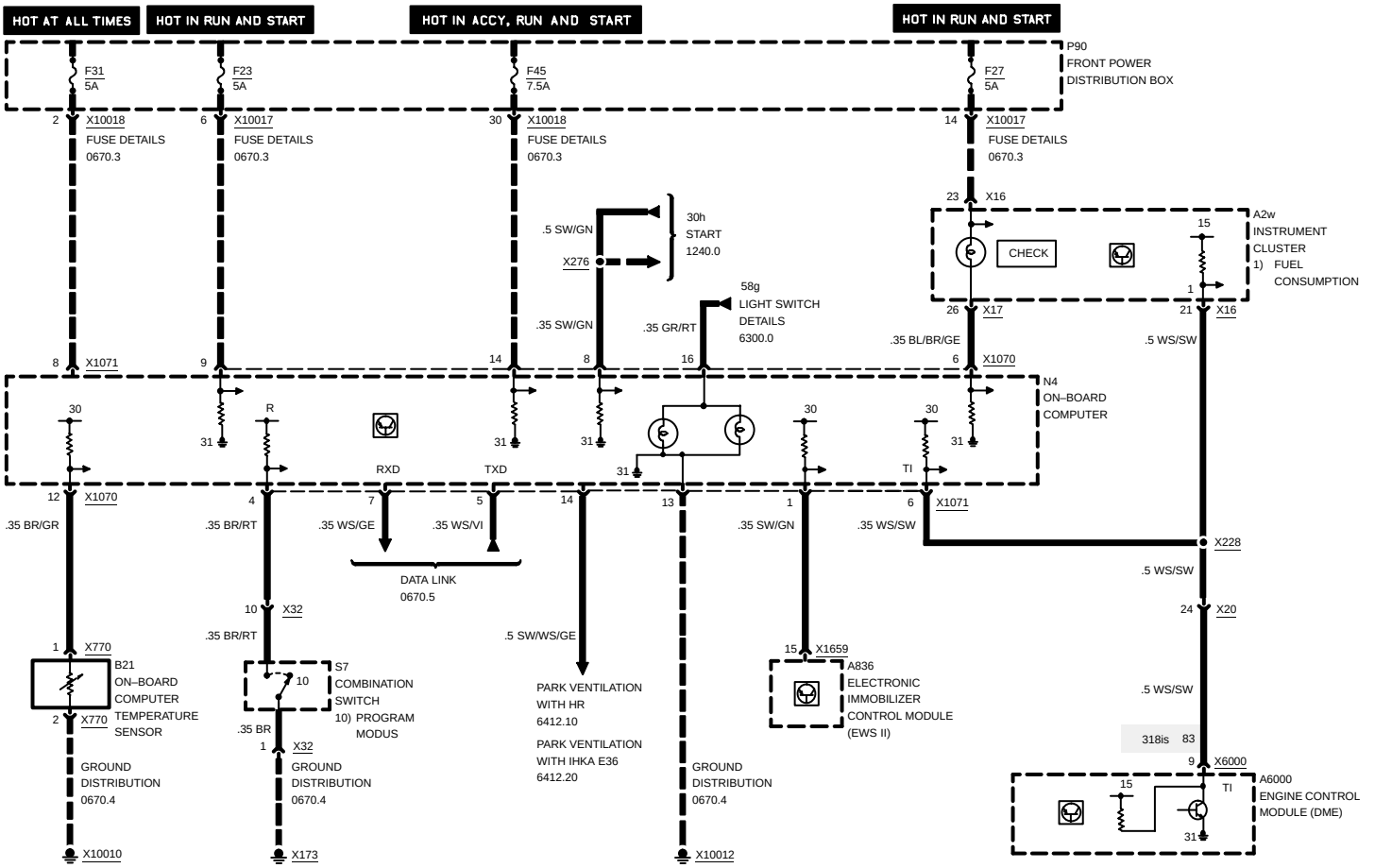
ANTI–THEFT SYSTEM (ALPINE)



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6581.2 ON–BOARD COMPUTER (BC V)

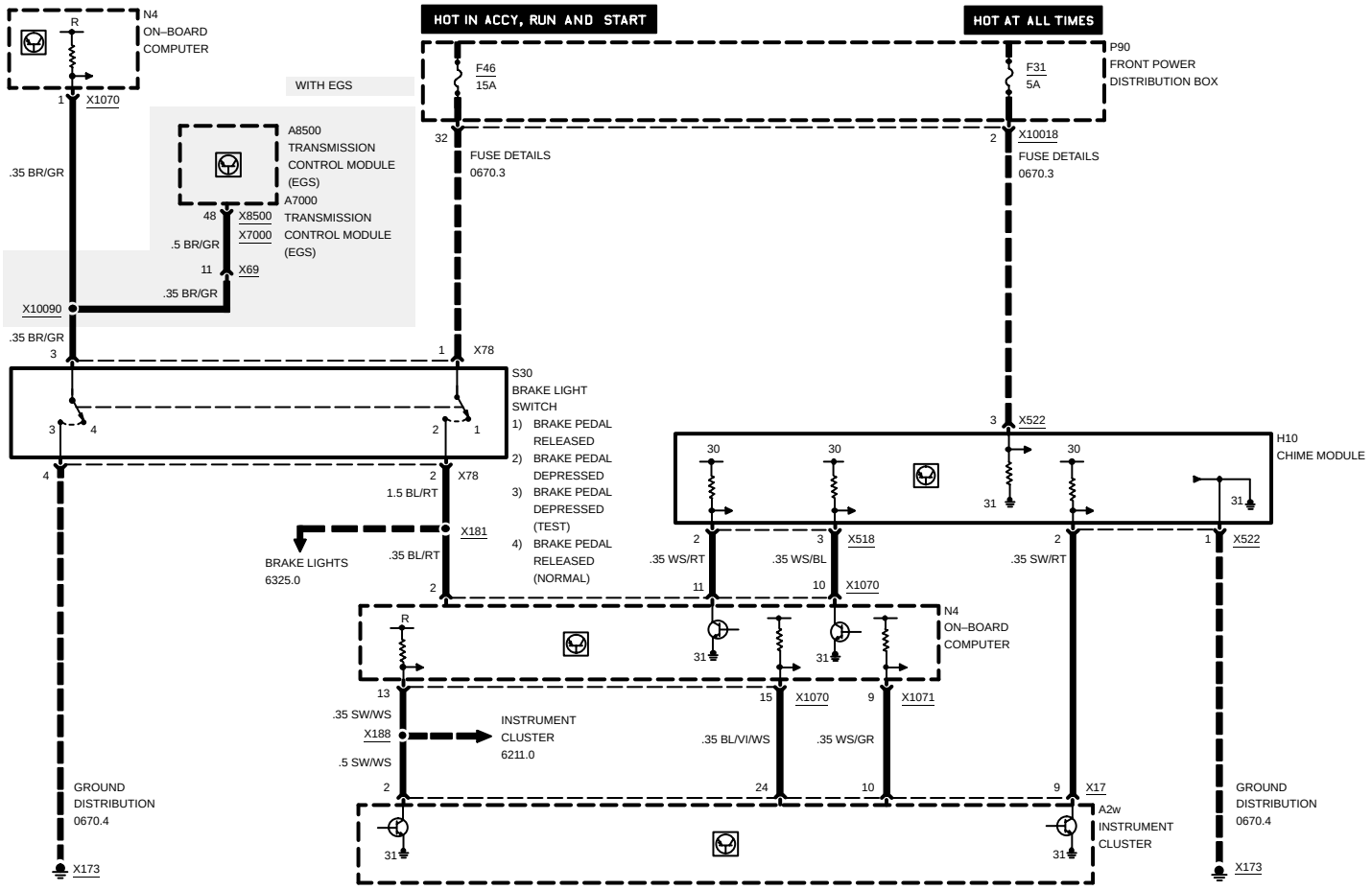
POWER



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ON–BOARD COMPUTER (BC V)

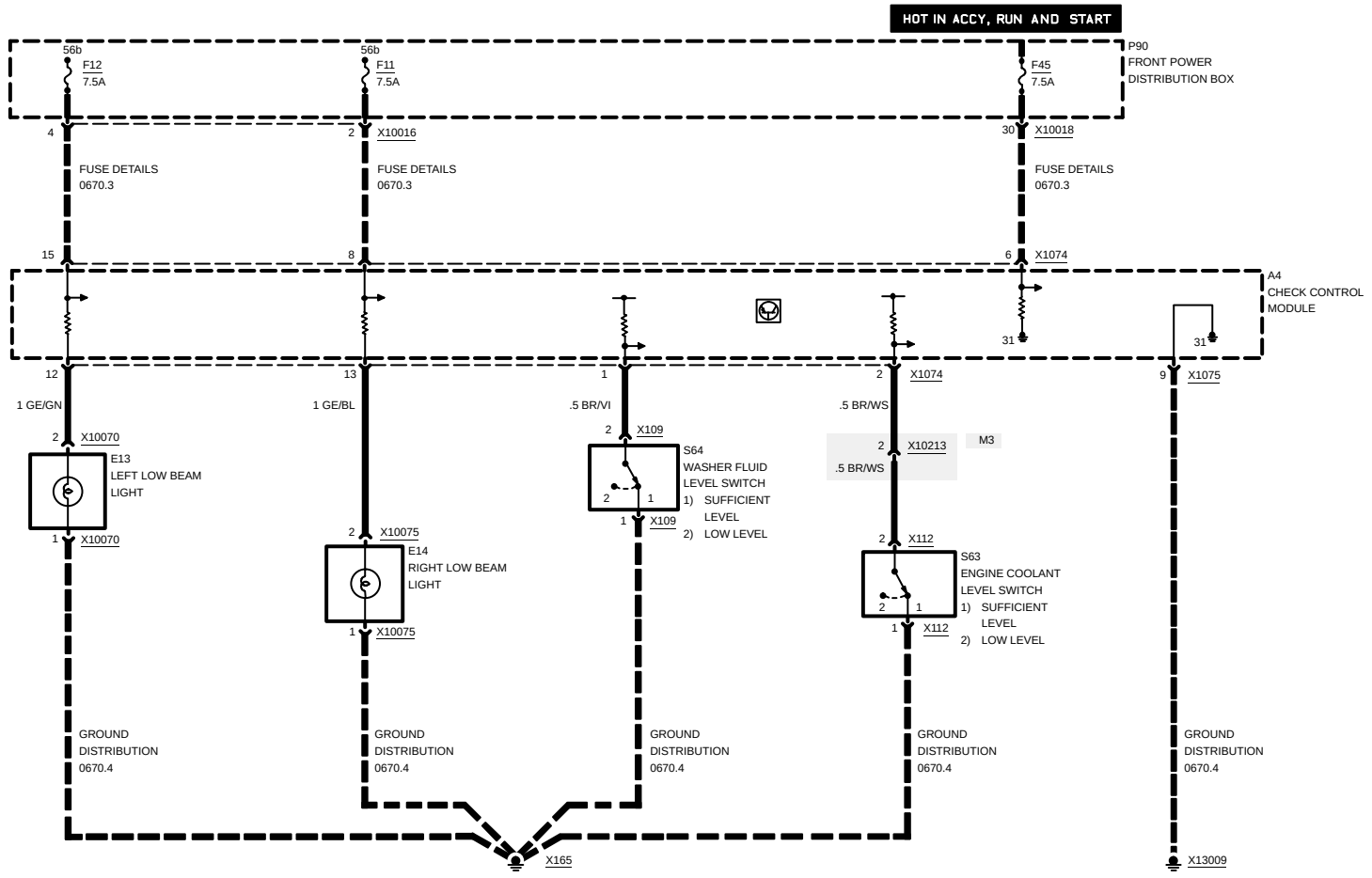
CHIME, BRAKE LIGHT SWITCH



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ON–BOARD COMPUTER (BC V)

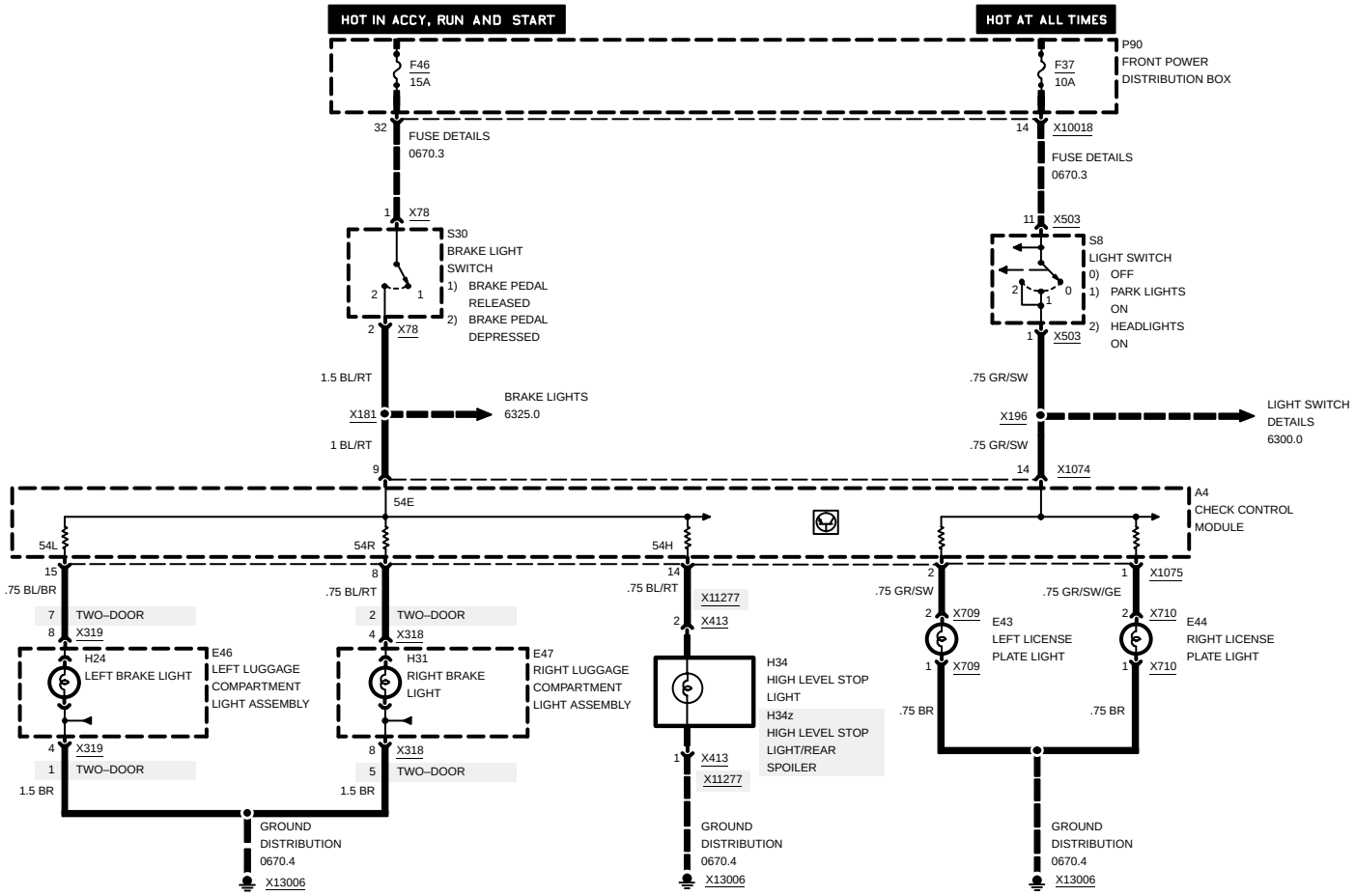
CHECK CONTROL



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ON–BOARD COMPUTER (BC V)

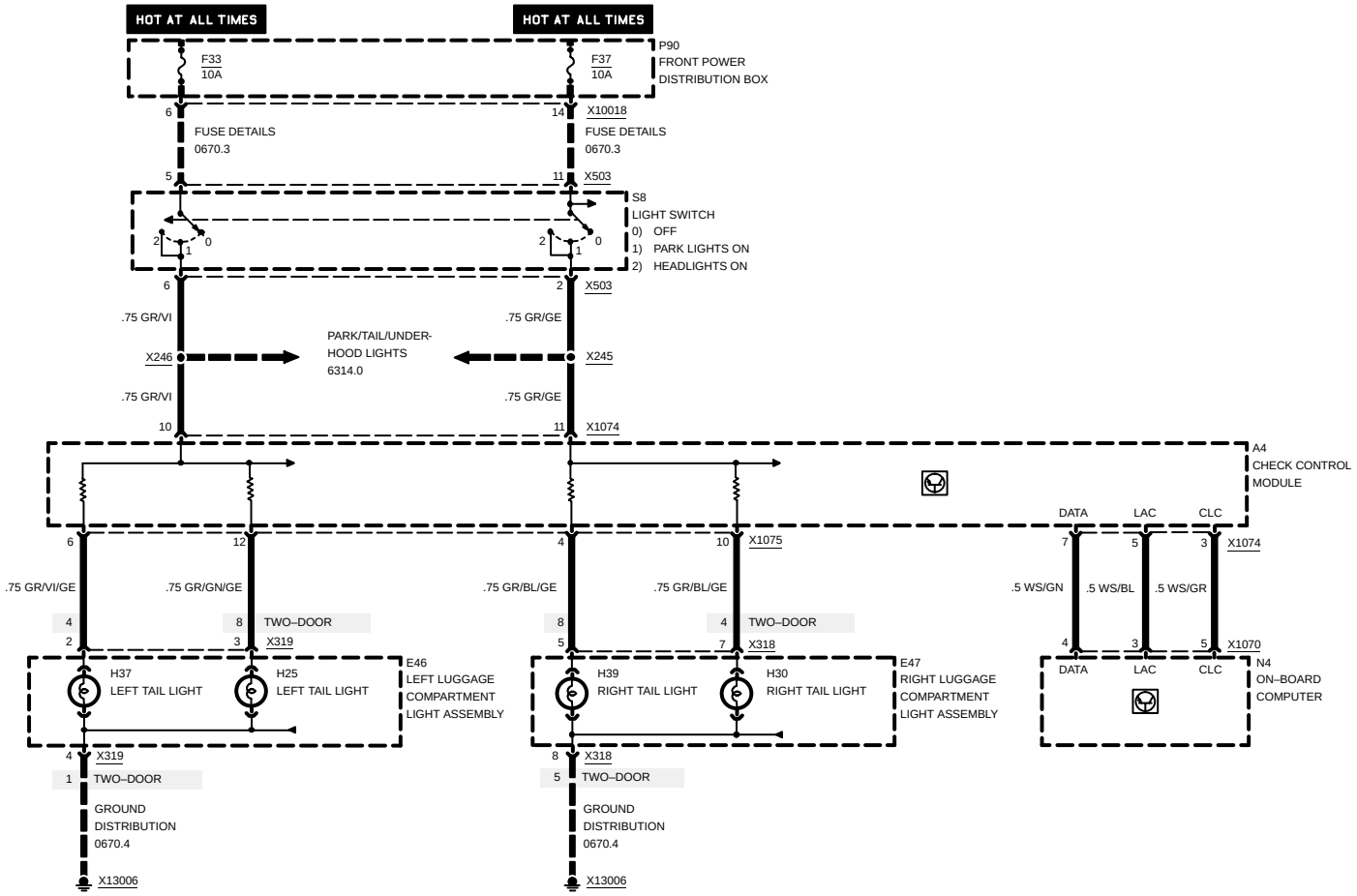
CHECK CONTROL



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ON–BOARD COMPUTER (BC V)

CHECK CONTROL



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7000.0 COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A2w	INSTRUMENT CLUSTER	LH side of dash	28-3	
A4	CHECK CONTROL MODULE	below LH side of dash	00-3	
A5	RELAY MODULE	behind glove box		
A8	CRUISE CONTROL MODULE (TEMPOMAT)	RH side of dash behind glove box	01-2	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	below rear seat	00-2	
A18	HIFI AMPLIFIER	below RH side of rear seat (Convertible)	02-3	
A18	HIFI AMPLIFIER	in LH side of luggage compartment	04-1	
A35	ON–BOARD DISPLAY	center of dash center console		
A51	WIPER/WASHER MODULE	behind glove box (glove box removed)	01-1	
A52	SLIP CONTROL MODULE (ABS/ASC)	behind glove box (glove box removed)	01-3	
A56	TILT/SLIDE SUNROOF CONTROL ASSEMBLY	under roof center panel	04-2	
A64	WIPER/WASHER MODULE (LOW II)	behind glove box (glove box removed)	01-1	
A96	CONVERTIBLE TOP CONTROL MODULE	in lower LH C–pillar behind side panel	02-1	
A104	BODY ELECTRONICS CONTROL MODULE (ZKE IV)	behind glove box (glove box removed)	01-1	
A113	SEAT OCCUPANCY DETECTOR	under RH front seat		
A115	AUTOMATIC CLIMATE CONTROL MODULE	behind center console	03-2	
A202	ABS CONTROL MODULE/HYDRAULIC UNIT	rear LH side of engine compartment		
A835	TRANSMITTER MODULE (EWS II)	RH side of steering column	04-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A836	ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)	RH side of dash behind glove box	38-3	
A6000	ENGINE CONTROL MODULE (DME)	rear RH side of engine compartment	00-1	
A7000	TRANSMISSION CONTROL MODULE (EGS)	rear RH side of engine compartment	00-1	
A8500	TRANSMISSION CONTROL MODULE (EGS)	rear RH side of engine compartment	00-1	
B1	RIGHT FRONT SPEED SENSOR – ABS	on RH front wheel, above brake caliper	08-3	
B2	LEFT FRONT SPEED SENSOR – ABS	on LH front wheel, above brake caliper	08-3	
B3	RIGHT REAR SPEED SENSOR – ABS	on RH rear wheel, above brake caliper		
B4	LEFT REAR SPEED SENSOR – ABS	on LH rear wheel, above brake caliper		
B6	FUEL LEVEL SENSOR	below LH side of rear seat	21-2	
B10	VEHICLE SPEED SENSOR	under rear of car on differential	08-1	
B11	LH HEAT EXCHANGER TEMPERATURE SENSOR	center console		
B12	RH HEAT EXCHANGER TEMPERATURE SENSOR	center console		
B13	OUTSIDE TEMPERATURE SENSOR	rear of engine compartment behind RH fresh air cowl	15-2	
B14	EVAPORATOR TEMPERATURE SENSOR	RH side of LH footwell LH side of IHKA Plenum	28-1	
B16	LEFT FRONT BRAKE PAD SENSOR	on LH front wheel, above brake caliper	08-3	
B17	RIGHT REAR BRAKE PAD SENSOR	behind RH rear wheel		
B18	BRAKE FLUID LEVEL SWITCH	rear LH side of engine compartment top of brake fluid reservoir	18-3	
B21	ON–BOARD COMPUTER TEMPERATURE SENSOR	front RH side of engine compartment	20-1	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B25y	FUEL TANK SENSOR II	top of fuel tank		
B72	FUEL TANK PRESSURE SENSOR	RH rear wheel well behind trim panel	14-1	
B78	DRIVER'S SIDE IMPACT SENSOR	in lower LH B–pillar	39-2	
B79	PASSENGER'S SIDE IMPACT SENSOR	in lower RH B–pillar		
B6203	CRANKSHAFT POSITION/RPM SENSOR	front of engine below	10-3	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	front of engine below intake manifold	11-1	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	front of engine below intake manifold	12-2	
B6205	INTAKE AIR TEMPERATURE SENSOR	front LH side of engine compartment (318is)	18-2	
B6205	INTAKE AIR TEMPERATURE SENSOR	LH side of engine near oil level stick	36-3	
B6207	HOT FILM AIR MASS METER	LH side of engine	12-1	
B6209	HALL EFFECT CAMSHAFT SENSOR	front of engine (318is)		
B6217	HOT FILM AIR MASS METER	top front of engine	18-2	
B6231	OIL PRESSURE SWITCH	front of engine below intake manifold	11-1	
B6231	OIL PRESSURE SWITCH	front of engine below intake manifold (318is)	17-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	front of engine below intake manifold	11-3	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	front of engine below intake manifold (318is)	17-2	
B6233	AIR FLOW SENSOR	LH side of engine compartment right of LH side shock tower		
B6236	ENGINE COOLANT TEMPERATURE SENSOR	front of engine	11-3	
B6238	OIL TEMPERATURE SENSOR	LH side of engine		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B6240	KNOCK SENSOR	top front of engine	11-2	
B6256	DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)	RH front of engine below intake manifold	11-1	
B9508	PRESSURE SWITCH	front RH side of engine compartment near RH headlight assembly	09-3	
B62001	OXYGEN SENSOR (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	37-1	
B62002	OXYGEN SENSOR (BEHIND CATALYTIC CONVERTER)	on catalytic converter (318is)	37-2	
B62101	OXYGEN SENSOR I (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	38-2	
B62102	OXYGEN SENSOR I (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
B62201	OXYGEN SENSOR II (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	38-2	
B62202	OXYGEN SENSOR II (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
C101	CONTACT RING	top of steering column	24-2	
C900	SUPPRESSION FILTER	in upper RH C–pillar	33-2	
D100	DATA LINK CONNECTOR	rear RH side of engine compartment	05-1	
E10	REAR DEFOGGER/ANTENNA	in rear window		
E11	LEFT HIGH BEAM LIGHT	near LH headlight assembly		
E12	RIGHT HIGH BEAM LIGHT	near RH headlight assembly		
E13	LEFT LOW BEAM LIGHT	near LH headlight assembly		
E14	RIGHT LOW BEAM LIGHT	near RH headlight assembly		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E15	LEFT PARK LIGHT	front of vehicle		
E19	RIGHT PARK LIGHT	front of vehicle		
E25	FRONT ASHTRAY LIGHT	center console	31-2	
E26	LEFT FOG LIGHT	under LH front bumper	08-2	
E27	RIGHT FOG LIGHT	under RH front bumper	08-2	
E28	FRONT CIGAR LIGHTER	near gearshift lever		
E28y	REAR ASHTRAY LIGHT	below center console	31-2	
E29	FRONT CIGAR LIGHTER LIGHT	center console		
E32	LUGGAGE COMPARTMENT LIGHT	in luggage compartment		
E34	FRONT DOME LIGHT/MAP READING ASSEMBLY	under roof center panel	04-2	
E35	DRIVER'S MAKE–UP MIRROR LIGHT	above LH sun visor	38-1	
E36	PASSENGER'S MAKE–UP MIRROR LIGHT	above RH sun visor	23-1	
E39	LEFT REAR INTERIOR LIGHT	in upper LH C–pillar	33-1	
E40	RIGHT REAR INTERIOR LIGHT	in upper RH C–pillar	33-2	
E42	GLOVE BOX LIGHT	LH side of glove box	25-1	
E43	LEFT LICENSE PLATE LIGHT	underside of luggage compartment lid, near license plate	09-1	
E44	RIGHT LICENSE PLATE LIGHT	underside of luggage compartment lid, near license plate	09-1	
E45y	CASSETTE BOX LIGHT	center of dash		
E46	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY	in LH rear side of luggage compartment		
E47	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY	in RH rear side of luggage compartment	03-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E48	DOOR LOCK HEATER	LH front door		
E51	LEFT WASHER JET HEATER	on underside of engine hood		
E52	RIGHT WASHER JET HEATER	on underside of engine hood		
E56	DRIVER'S SEATBACK HEATER	in upper LH front seatback	23-3	
E57	DRIVER'S SEAT HEATER	under LH front seat	23-3	
E58	PASSENGER'S SEAT HEATER	underside of RH front seat		
E59	PASSENGER'S SEATBACK HEATER	in upper RH front seatback		
E82	TRANSMISSION POSITION INDICATOR LIGHT	center console		
E96	GEAR SHIFT LEVER INDICATOR	center console		
E99	HARD TOP CONNECTOR 1	in convertible top compartment		
E100y	HARD TOP CONNECTOR 2	in convertible top compartment		
E101	LEFT LUGGAGE COMPARTMENT LIGHT	in LH rear side of luggage compartment (Convertible)		
E102	RIGHT LUGGAGE COMPARTMENT LIGHT	in RH rear side of luggage compartment (Convertible)		
F97	FUSIBLE LINK	in RH side of luggage compartment		
G1	BATTERY	in RH rear side of luggage compartment		
G1	BATTERY	rear RH side of engine compartment (318is)		
G5	DRIVER'S AIR BAG GAS GENERATOR	behind steering wheel	24-2	
G6	PASSENGER'S AIR BAG GAS GENERATOR	RH side of dash	27-2	
G12	DRIVER'S SIDE PYROTECHNICAL BELT TENSIONER	driver's seat right		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
G13	PASSENGER'S SIDE PYROTECHNICAL BELT TENSIONER	passenger's seat left		
G14	LEFT SIDE AIR BAG GAS GENERATOR	in driver's door	39-3	
G15	RIGHT SIDE AIR BAG GAS GENERATOR	in passenger's door		
G6430	B+ JUMP START JUNCTION POINT	rear RH side of engine compartment back of RH side shock tower	05-1	
G6509	GENERATOR	front LH side of engine compartment	05-2	
H2	LEFT HORN	front of engine compartment		
H3	RIGHT HORN	front of engine compartment		
H4	RIGHT FRONT TURN LIGHT	front of vehicle		
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 vehicle		
H8	RIGHT FRONT AUXILIARY TURN LIGHT	front of vehicle		
H9	LEFT FRONT AUXILIARY TURN LIGHT	front of vehicle		
H10	CHIME MODULE	below LH side of dash		
H1w	ANTI–THEFT HORN (ALPINE)	front RH side of engine compartment		
H24	LEFT BRAKE LIGHT	LH side of body rear end		
H25	LEFT TAIL LIGHT	LH side of body rear end		
H26	LEFT REAR FOG LIGHT	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H27	LEFT BACK UP LIGHT	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H28	RIGHT BACK UP LIGHT	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H30	RIGHT TAIL LIGHT	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
H31	RIGHT BRAKE LIGHT	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H34	HIGH LEVEL STOP LIGHT	at back of rear window shelf		
H34z	HIGH LEVEL STOP LIGHT/REAR SPOILER	in rear spoiler		
H37	LEFT TAIL LIGHT	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H42	LEFT MID–HIGH RANGE SPEAKER	in upper LH front door		
H43	RIGHT MID–HIGH RANGE SPEAKER	in upper RH front door		
H45	RIGHT REAR SPEAKER	under rear window shelf		
H46	LEFT REAR SPEAKER	under rear window shelf		
H50	RIGHT FRONT HIGH RANGE SPEAKER	in upper RH front door		
H51	RIGHT FRONT LOW RANGE SPEAKER	in lower RH A–pillar		
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	in lower LH A–pillar		
H59	LEFT FRONT HIGH RANGE SPEAKER	in upper LH front door		
H66	SUBWOOFER	behind trim panel		
I1008	SEAT MAT	in passenger's seat		
K2	HORN RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K4	BLOWER RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
K9	UNLOADER RELAY, TERMINAL 15	behind LH footwell trim	25-3	
K10	ABS RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K13	REAR DEFOGGER RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K16	HAZARD FLASHER RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K19	COMPRESSOR CONTROL RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K21	NORMAL SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K22	HIGH SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K46	HIGH BEAM LIGHT RELAY	LH side of dash behind instrument cluster	02-2	
K46z	DAY LIGHT RELAY MODULE	below LH side of dash		
K47	FRONT FOG LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K48	LOW BEAM LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K99	REAR WINDOW BLOWER RELAY	behind glove box left	25-2	
K108	HORN RELAY (ALPINE)	behind glove box left	01-2	
K117	LUGGAGE COMPARTMENT LID RELAY	behind glove box right		
K125	ABS PUMP MOTOR RELAY, TIMED	rear LH side of engine compartment in Power Distribution Box (318is)	19-3	
K128	SPATIAL SOUND RELAY	footwell, driver's side behind trim panel		
K450	PARK VENTILATION RELAY	below LH side of dash	02-2	
K6300	ENGINE CONTROL MODULE RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K6301	CYL. 1–6 FUEL PUMP RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K6301w	FUEL PUMP RELAY	rear LH side of engine compartment in Front Power Distribution Box	19-1	
K6304	SECONDARY AIR PUMP RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K6326	UNLOADER RELAY, TERMINAL 15	rear RH side of engine compartment	39-1	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M2	FUEL PUMP	below RH side of rear seat	20-2	
M3	WIPER MOTOR	rear of engine compartment below center of cowl	16-1	
M4	WASHER PUMP	front RH side of engine compartment on washer fluid reservoir	10-1	
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	front RH side of engine compartment on washer fluid reservoir	10-2	
M9	AUXILIARY FAN MOTOR	behind front grille behind trim panel	18-1	
M12	DRIVER'S DOOR LOCK MOTOR	in upper LH front door behind trim panel		
M13	PASSENGER'S DOOR LOCK MOTOR	in upper RH front door behind trim panel		
M14	RIGHT REAR DOOR LOCK MOTOR	in upper RH rear door behind trim panel		
M15	LEFT REAR DOOR LOCK MOTOR	in upper LH rear door behind trim panel		
M16	GAS FILLER LOCK MOTOR	in RH rear side of luggage compartment	03-3	
M17	LUGGAGE COMPARTMENT LOCK MOTOR	rear side of luggage compartment in lift gate	34-2	
M20	LEFT REAR WINDOW MOTOR	in lower LH rear door behind trim panel		
M21	DRIVER'S WINDOW MOTOR	LH front door behind door panel	31-3	
M22	RIGHT REAR WINDOW MOTOR	in lower RH rear door behind door panel		
M23	PASSENGER'S WINDOW MOTOR	RH front door behind door panel	32-1	
M25	CRUISE CONTROL ACTUATOR (TEMPOMAT)	front LH side of engine compartment	18-2	
M30	BLOWER MOTOR	rear of engine compartment behind RH fresh air cowl	15-2	
M35	DEFROSTER FLAP MOTOR	RH side of IHKA Plenum	29-2	
M36	FRESH AIR FLAP MOTOR	below LH side of dash RH side of IHKA Plenum	29-3	
M40	RECIRCULATION FLAP MOTOR	below LH side of dash RH side of IHKA Plenum	29-2	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M43	CONVERTIBLE TOP STORAGE LID LOCK MOTOR	in convertible top compartment left	22-1	
M44	REGULATION FLAP MOTOR	RH side of IHKA Plenum		
M46	REAR RECIRCULATION FLAP MOTOR	RH side of IHKA Plenum		
M50	DRIVER'S SEAT CUSHION TILT MOTOR	under LH front seat	23-3	
M51	DRIVER'S SEAT MOVEMENT MOTOR	under LH front seat	23-3	
M52	DRIVER'S SEAT HEIGHT MOTOR	under LH front seat	23-3	
M53	DRIVER'S SEATBACK RECLINER MOTOR	under LH front seat	23-3	
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		
M93	AUXILIARY THROTTLE POSITION MOTOR (ADS)	front of engine compartment		
M98	LEFT REAR WINDOW MOTOR	left from LH rear seat behind trim panel	22-2	
M99	RIGHT REAR WINDOW MOTOR	RH side of RH rear seat behind trim panel	22-2	
M100	CONVERTIBLE TOP STORAGE LID MOTOR	in LH side of luggage compartment	34-1	
M101	CONVERTIBLE TOP MOTOR	in LH side of luggage compartment	34-3	
M105	REAR WINDOW BLOWER	behind rear seats	21-3	
M107	GLOVE BOX LOCK MOTOR	RH side of dash behind glove box		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M132	WINDSCREEN COWL PANEL LOCK MOTOR	front cover	35-1	
M6510	STARTER	rear LH side of engine compartment		
N2	FINAL STAGE UNIT	behind LH side of dash		
N3	DIMMER	LH side of dash	26-1	
N4	ON–BOARD COMPUTER	center console	03-1	
N5	ANALOG CLOCK	center console		
N8	ANTENNA AMPLIFIER AM/FM	in upper LH C–pillar	33-1	
N10	MULTI–FUNCTION CLOCK	center console		
N12w	ANTI–THEFT CONTROL MODULE (ALPINE)	behind glove box (glove box removed)	01-3	
N17	CRASH CONTROL MODULE	LH side of dash behind instrument cluster	02-2	
N22	CD CHANGER	in LH forward side of luggage compartment		
N24	ROLLOVER SENSOR	in lower LH C–pillar behind side panel	02-3	
P90	FRONT POWER DISTRIBUTION BOX	rear LH side of engine compartment	05-3	
P95	AUXILIARY FUSE BOX	footwell, driver's side		
P96	AUXILIARY FUSE BOX IN LUGGAGE COMPARTMENT	in RH side of luggage compartment behind trim panel		
P97	AUXILIARY FUSE BOX	LH side of dash behind instrument cluster	02-2	
R11	BLOWER RESISTORS	behind center of dashboard left	29-1	
R6252	THROTTLE POSITION SENSOR	LH side of engine near oil level stick	13-3	
R6252	THROTTLE POSITION SENSOR	LH side of engine compartment (318is)	17-3	
R8554	RESISTOR	front of engine compartment		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S2	IGNITION SWITCH	RH side of steering column	24-3	
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	center console	30-3	
S4	HORN SWITCH	top of steering column	24-2	
S5	WIPER/WASHER SWITCH	LH side of dash RH side of steering column above		
S6	ASC SWITCH	center console	30-2	
S7	COMBINATION SWITCH	on steering column	24-3	
S8	LIGHT SWITCH	LH side of dash	26-1	
S10	FOG LIGHT SWITCH	LH side of dash		
S13	PASSENGER'S DOOR JAMB SWITCH	in upper RH B–pillar	33-3	
S14	DRIVER'S DOOR JAMB SWITCH	in upper LH B–pillar	33-3	
S15	REAR RIGHT DOOR JAMB SWITCH	in lower RH C–pillar	33-3	
S16	LEFT REAR DOOR JAMB SWITCH	in lower LH C–pillar	33-3	
S17	MIRROR CONTROL SWITCH	in upper LH front door		
S18	HAZARD SWITCH	center console near gearshift lever	30-3	
S21w	ENGINE HOOD SWITCH	front RH side of engine compartment	10-2	
S28	CRUISE CONTROL SWITCH	on steering column	24-3	
S29	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-3	
S30	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-2	
S31	PARK BRAKE SWITCH	center console on rear of park brake lever	31-2	
S32	CLUTCH SWITCH	LH footwell on clutch pedal support bracket behind LH footwell trim	26-3	
S36	TEMPERATURE SWITCH	front RH side of engine compartment near RH headlight assembly	09-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S36y	DOUBLE TEMPERATURE SWITCH	RH top of radiator	09-3	
S38	TILT/SLIDE SUNROOF SWITCH (SHD)	roof		
S40y	CENTRAL POWER WINDOW SWITCH	center console		
S41y	LH REAR DOOR POWER WINDOW SWITCH (DOOR)	in lower LH rear door behind trim panel		
S42y	RH REAR DOOR POWER WINDOW SWITCH (DOOR)	in lower RH rear door behind trim panel		
S53	DRIVER'S SEAT, SEAT HEATER SWITCH	center console near gearshift lever	30-2	
S54	PASSENGER'S SEAT, SEAT HEATER SWITCH	center console near gearshift lever	30-1	
S58	DRIVER'S SEAT BELT SWITCH	in LH front seat belt buckle		
S59	PASSENGER'S SEAT BELT SWITCH	in RH front seat belt buckle		
S61y	LUGGAGE COMPARTMENT LIGHT SWITCH	underside of luggage compartment lid left	34-2	
S63	ENGINE COOLANT LEVEL SWITCH	front RH side of engine compartment	18-1	
S64	WASHER FLUID LEVEL SWITCH	front RH side of engine compartment on washer fluid reservoir	10-1	
S75	BLOWER SWITCH	center of dash		
S77	DRIVER'S MAKE–UP MIRROR SWITCH	above LH sun visor	38-1	
S78	PASSENGER'S MAKE–UP MIRROR SWITCH	above RH sun visor	23-1	
S123	ABS PEDAL TRAVEL SENSOR	near brake master cylinder	18-3	
S124	RIGHT REAR DOOR CONTACT	rear RH door pillar	33-3	
S125	LEFT REAR DOOR CONTACT	LH rear door jamb	33-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S130	CHILD PROTECTION CONTROL (CONSOLE)	center console		
S143	CONVERTIBLE TOP ACTUATING SWITCH	center console		
S164	CONVERTIBLE TOP END–POSITION MICRO SWITCH	at convertible top linkage		
S165	CONVERTIBLE TOP POSITION MICRO SWITCH	at convertible top linkage		
S196	REAR WINDOW BLOWER MICRO SWITCH	in convertible top compartment, left	35-2	
S198	JET HEATER THERMOSWITCH	front LH side of engine compartment	37-3	
S213	LUGGAGE COMPARTMENT LID MICRO SWITCH	underside of luggage compartment lid		
S214	CONVERTIBLE TOP STORAGE LID MICRO SWITCH	at convertible top linkage		
S126y	DRIVER'S POWER WINDOW SWITCH	center console near gearshift lever	31-1	
S127y	PASSENGER'S POWER WINDOW SWITCH	center console near gearshift lever	31-1	
S128y	LH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	center console		
S128z	LH REAR POWER WINDOW SWITCH	center console		
S129y	RH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	center console		
S129z	RH REAR POWER WINDOW SWITCH	center console		
S231	WINDSCREEN COWL PANEL LOCK MICRO SWITCH	front cover	35-1	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S303y	TOP HIFI SWITCH	center console		
S8503	PROGRAM SWITCH	center console		
S8507	KICK–DOWN SWITCH	LH footwell		
S8511	REVERSING LIGHT SWITCH	under front of car LH side of transmission		
T6151	CYL. 1 IGNITION COIL	top RH side of engine	13-1	
T6151	CYL. 1 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6152	CYL. 2 IGNITION COIL	top RH side of engine	13-1	
T6152	CYL. 2 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6153	CYL. 3 IGNITION COIL	top RH side of engine	13-1	
T6153	CYL. 3 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6154	CYL. 4 IGNITION COIL	top RH side of engine	13-1	
T6154	CYL. 4 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6155	CYL. 5 IGNITION COIL	top RH side of engine	13-1	
T6156	CYL. 6 IGNITION COIL	top RH side of engine	13-1	
V6	UNCOUPLING DIODE	rear LH side of engine compartment in Power Distribution Box		
V7	ASC DIODE	top LH side of engine compartment in Front Power Distribution Box		
X0	B+ JUNCTION POINT	rear LH side of engine compartment	05-3	
X2	BATTERY B+ START POINT	rear LH side of engine compartment	05-3	
X9	B+ JUNCTION POINT	rear LH side of engine compartment	05-3	
X13	(30 PINS, BLACK)	behind LH footwell kickpanel	16-3	00-4
X14	(30 PINS, NATURAL)	behind LH footwell kickpanel	16-3	00-4
X16	(26 PINS, NATURAL)	LH side of dash rear side of instrument cluster, A2w	28-3	00-2

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X17	(26 PINS, BLUE)	LH side of dash rear side of instrument cluster, A2w	28-3	00-2
X20	(25 PINS, BLACK)	rear LH side of engine compartment	18-3	05-2
X22	(26 PINS, GRAY)	RH side of dash behind glove box	01-2	00-2
X32	(12 PINS, NATURAL)	LH footwell underside of steering column	27-3	04-5
X33	(12 PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	27-3	04-5
X35	(12 PINS, NATURAL)	below LH side of dash RH side of steering column	27-3	04-5
X35	(12 PINS, NATURAL)	below LH side of dash RH side of steering column	28-1	04-5
X44	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X45	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X51	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X52	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X53	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X54	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X56	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X58	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X63	(9 PINS, BLACK)	behind LH footwell speaker grille		03-6
X64	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X65	(9 PINS, BLACK)	below LH side of dash		03-6
X69	(25 PINS, GRAY)	rear LH side of engine compartment	18-3	05-2
X70	(8 PINS, BLACK)	front LH side of engine compartment	18-2	02-2
X72	(6 PINS, NATURAL)	footwell, driver's side	27-3	06-2
X74	(50 PINS, YELLOW)	below rear seat	00-2	02-5

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X78	(4 PINS, BLACK)	LH footwell on brake pedal support bracket behind LH footwell trim	26-2	03-3
X82	(3 PINS, BLACK)	front of engine compartment on auxiliary fan	18-1	08-1
X85	(3 PINS, BLACK)	rear LH side of engine compartment	16-2	06-3
X87	(3 PINS, BLACK)	front RH side of engine compartment RH top of radiator	09-3	06-3
X105	(2 PINS, BLACK)	on underside of engine hood		
X106	(2 PINS, BLACK)	on underside of engine hood		
X107	(2 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-1	
X109	(2 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-1	
X111	(2 PINS, BLACK)	rear LH side of engine compartment top of brake fluid reservoir	18-3	
X112	(2 PINS, BLACK)	front RH side of engine compartment	18-1	
X113	(3 PINS, GRAY)	wheel well right	09-2	09-2
X114	(3 PINS, GRAY)	wheel well left	09-2	09-2
X116	(2 PINS, BLACK)	LH footwell near brake pedal	26-3	
X118	(2 PINS, BLACK)	wheel well left	09-2	
X121	(2 PINS, WHITE)	LH footwell on clutch pedal	26-3	
X123	(2 PINS, GRAY)	front RH side of engine compartment on washer fluid reservoir	10-2	
X128	(2 PINS, BLACK)	front RH side of engine compartment		
X132	(2 PINS, BLACK)	front of engine compartment		
X133	(2 PINS, BLACK)	front of engine compartment		
X137	(2 PINS, BLACK)	front LH side of engine compartment		
X142	(2 PINS, GRAY)	under rear of car LH side of on differential		
X143	(2 PINS, GRAY)	under rear of car near differential on differential	08-1	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X163	(3 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-1	06-3
X165	GROUND	front LH side of engine compartment	06-3	
X168	(1 PIN, BLACK)	LH side of steering column		
X173	GROUND	below LH side of dash	07-1	
X209	(12 PINS, BLACK)	LH footwell underside of steering column		
X256	(26 PINS, BLACK)	ahead of RH front door in lower RH A–pillar	32-1	04-1
X257	(26 PINS, BLACK)	ahead of LH front door in lower LH A–pillar		04-1
X271	(12 PINS, BLACK)	LH side of dash rear side of instrument cluster, A2w	28-3	01-3
X272	(2 PINS, WHITE)	under roof center panel		
X273	(12 PINS, BLACK)	in lower LH B–pillar	21-1	01-2
X274	(12 PINS, BLACK)	in lower RH B–pillar	21-1	01-2
X275	(4 PINS, NATURAL)	under LH front seat	23-2	03-3
X279	(4 PINS, NATURAL)	under RH front seat	32-3	03-3
X285	(15 PINS, BLUE)	behind glove box	25-2	00-3
X292	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X295	(8 PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	27-3	03-5
X311	(3 PINS, BLACK)	underside of luggage compartment lid left	34-2	01-1
X312	(2 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	03-3	
X315	(2 PINS, BLACK)	underside of luggage compartment lid left	34-2	
X316	(4 PINS, YELLOW)	center console near gearshift lever	31-1	10-1
X317	(6 PINS, YELLOW)	center console near gearshift lever	30-3	07-1
X318	(8 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	03-3	01-4

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X319	(8 PINS, BLACK)	in LH rear side of luggage compartment behind LH rear light assembly		01-4
X320	(6 PINS, YELLOW)	center console near gearshift lever	30-3	07-1
X322	(6 PINS, BLACK)	LH footwell	28-2	06-2
X324	(4 PINS, YELLOW)	center console near gearshift lever	31-1	10-1
X333	(4 PINS, NATURAL)	rear of engine compartment below center of cowl	16-1	09-3
X336	(6 PINS, NATURAL)	under roof center panel	04-2	04-2
X351	(2 PINS, BLACK)	in upper RH B–pillar		
X352	(2 PINS, BLACK)	in lower LH C–pillar behind side panel	35-3	
X353	(1 PIN, NATURAL)	in lower RH C–pillar		
X354	(1 PIN, NATURAL)	in lower LH C–pillar		
X355	(2 PINS, BLACK)	in upper RH C–pillar	33-2	
X356	(2 PINS, BLACK)	in upper LH C–pillar	33-1	
X371	(2 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-2	
X372	(2 PINS, GRAY)	rear RH side of engine compartment back of RH side shock tower		
X379	(1 PIN, BLACK)	in upper LH C–pillar	33-1	
X380	(1 PIN, BLACK)	in upper RH C–pillar	33-2	
X381	(3 PINS, BLACK)	above LH sun visor	38-1	01-1
X382	(3 PINS, BLACK)	above RH sun visor	23-1	01-1
X383	(2 PINS, BLACK)	under rear of car on differential	08-1	
X386	(2 PINS, BLACK)	REAR ASHTRAY LIGHT		
X389	(2 PINS, BLACK)	rear LH side of engine compartment		
X390	(2 PINS, BLACK)	RH side of dash behind glove box		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X400	(8 PINS, BLACK)	in LH rear side of luggage compartment		03-5
X401	(1 PIN, BLACK)	above LH sun visor	38-1	
X402	(1 PIN, BLACK)	above RH sun visor	23-1	
X413	(2 PINS, BLACK)	at back of rear window shelf		
X423	(1 PIN, NATURAL)	below center console on rear of park brake lever		
X424	(1 PIN, BROWN)	in upper LH C–pillar	33-1	
X494	GROUND	under LH front seat under carpet left	39-2	
X495	GROUND	behind RH footwell trim	07-3	
X498	GROUND	under LH front seat under carpet left	39-2	
X503	(12 PINS, WHITE)	LH side of dash	26-1	01-6
X504	(4 PINS, NATURAL)	LH side of dash	26-1	03-3
X511	(8 PINS, BLACK)	center console	30-3	01-4
X516	(5 PINS, BLACK)	center console	30-3	03-2
X517	(4 PINS, BLACK)	LH side of dash	26-1	03-3
X518	(4 PINS, BLACK)	LH footwell	28-2	03-3
X521	(6 PINS, BLUE)	center console		05-3
X522	(3 PINS, NATURAL)	LH footwell	28-2	02-1
X531	(1 PIN, NATURAL)	center console near gearshift lever	30-2	
X532	(2 PINS, BLACK)	center console near gearshift lever	30-2	
X537	(3 PINS, BLACK)	in upper LH front door behind door panel	31-3	01-1
X538	(2 PINS, BLACK)	RH front door behind door panel	32-1	
X542	(2 PINS, BLACK)	LH side of glove box	25-1	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X603	(12 PINS, BLACK)	LH front seat		04-5
X604	(12 PINS, BLACK)	RH front seat		04-5
X605	(12 PINS, BLACK)	below RH side of rear seat Convertible	02-3	03-4
X605	(12 PINS, BLACK)	in LH side of luggage compartment	04-1	03-4
X606	(26 PINS, BLACK)	below RH side of rear seat Convertible	02-3	00-2
X606	(26 PINS, BLACK)	in LH side of luggage compartment	04-1	00-2
X607	(9 PINS, BLACK)	below LH side of dash	02-2	03-6
X623	(4 PINS, BLACK)	in upper LH front door behind door panel		10-1
X624	(4 PINS, BLACK)	in upper RH front door behind door panel	32-1	10-1
X625	(6 PINS, WHITE)	LH front door	31-3	05-1
X638	(2 PINS, BLACK)	below RH side of rear seat	20-2	
X641	(6 PINS, BLACK)	RH front door behind door panel		08-2
X643	(4 PINS, YELLOW)	in roof panel		10-1
X644	(6 PINS, BLACK)	in lower LH rear door		05-3
X645	(6 PINS, BLUE)	in lower LH rear door		06-2
X646	(6 PINS, BLACK)	in lower RH rear door behind trim panel		06-2
X647	(6 PINS, BLUE)	in lower RH rear door behind trim panel		08-4
X651	(6 PINS, YELLOW)	center console	30-2	05-3
X652	(6 PINS, BLACK)	driver's seat left		05-1
X658	(6 PINS, YELLOW)	center console	30-1	05-3
X660	(4 PINS, BLACK)	LH front door in door at key lock assembly		05-4
X663	(4 PINS, GRAY)	RH side of IHKA Plenum	29-3	10-1

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X671	(5 PINS, BLACK)	behind LH side of dash		04-3
X679	(2 PINS, NATURAL)	below RH side of rear seat	20-2	
X700	(1 PIN, NATURAL)	behind RH footwell speaker grille		
X701	(1 PIN, NATURAL)	behind LH footwell kickpanel		
X706	(2 PINS, BLACK)	center console	31-2	
X709	(2 PINS, BLACK)	underside of luggage compartment lid, near license plate	09-1	
X710	(2 PINS, BLACK)	underside of luggage compartment lid, near license plate	09-1	
X711	(1 PIN, NATURAL)	underside of luggage compartment lid left	34-2	
X712	(1 PIN, TRANSPARENT)	underside of luggage compartment lid left		
X713	(2 PINS, BLACK)	under rear of car near differential on differential	08-1	
X714	(2 PINS, GRAY)	in lower LH rear door behind trim panel		
X720	(2 PINS, GRAY)	in lower RH rear door behind trim panel		
X726	(2 PINS, ——)	under LH front seat	23-2	
X727	(2 PINS, ——)	under LH front seat	23-2	
X728	(2 PINS, ——)	under LH front seat	23-2	
X729	(2 PINS, ——)	under LH front seat	23-2	
X732	(4 PINS, BLACK)	under LH front seat under carpet		03-3
X733	(4 PINS, BLACK)	under LH front seat under carpet		03-3
X734	(2 PINS, ——)	under RH front seat		
X735	(2 PINS, ——)	under RH front seat		
X736	(2 PINS, ——)	under RH front seat		
X737	(2 PINS, ——)	under RH front seat		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X740	(4 PINS, BLACK)	under RH front seat	24-1	03-3
X741	(4 PINS, BLACK)	under RH front seat	24-1	03-3
X742	(2 PINS, YELLOW)	RH front door in door at key lock assembly		
X744	(2 PINS, GRAY)	RH front door behind door panel	32-1	
X745	(3 PINS, BLACK)	above RH footwell dash panel		01-1
X746	(3 PINS, BLACK)	RH front door behind door panel	32-1	01-1
X747	(2 PINS, YELLOW)	LH front door in door at key lock assembly	32-2	
X748	(3 PINS, BLACK)	footwell, driver's side, behind trim panel		01-1
X749	(4 PINS, BLACK)	in upper LH front door	31-3	
X751	(2 PINS, WHITE)	LH front door	32-2	
X752	(2 PINS, GRAY)	LH front door in door at key lock assembly	32-2	
X753	(3 PINS, BLACK)	LH front door		01-1
X768	(2 PINS, WHITE)	in the engine compartment near LH headlight assembly	08-2	
X769	(2 PINS, WHITE)	in the engine compartment near RH headlight assembly	08-2	
X770	(2 PINS, YELLOW)	front RH side of engine compartment	20-1	
X771	(2 PINS, BLACK)	RH side of LH footwell LH side of IHKA Plenum	28-1	
X772	(2 PINS, WHITE)	center console		
X773	(2 PINS, WHITE)	center console		
X774	(1 PIN, GRAY)	rear of engine compartment behind RH fresh air cowl		
X778	(4 PINS, BLACK)	under LH front seat	23-2	10-1
X779	(2 PINS, BLACK)	LH side of glove box	25-1	
X782	(3 PINS, ORANGE)	below RH side of dash	27-2	10-3

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X783	(3 PINS, BLACK)	underside of steering column		10-3
X816	(2 PINS, BLACK)	rear of engine compartment behind RH fresh air cowl		
X817	(1 PIN, BLACK)	rear of engine compartment behind RH fresh air cowl		
X899	(12 PINS, BLACK)	behind center of dashboard		01-3
X904	(4 PINS, BLACK)	LH side of IHKA Plenum	29-1	03-3
X905	(5 PINS, BLACK)	behind center of dashboard		
X999	(4 PINS, BLACK)	behind center of dashboard left		03-3
X1001	(4 PINS, BLACK)	RIGHT REAR SPEAKER		03-3
X1002	(4 PINS, ——)	LEFT REAR SPEAKER		03-3
X1014	(1 PIN, BLACK)	center console near gearshift lever	30-2	
X1070	(18 PINS, BLACK)	center console	03-1	01-5
X1071	(18 PINS, NATURAL)	center console	03-1	01-5
X1074	(15 PINS, WHITE)	below LH side of dash	00-3	00-3
X1075	(15 PINS, BLACK)	below LH side of dash	00-3	00-3
X1148	(2 PINS, BLACK)	front LH side of engine compartment JET HEATER THERMOSWITCH	37-3	
X1155	(3 PINS, BLACK)	center console		01-1
X1162	(2 PINS, BLACK)	near brake master cylinder	18-3	
X1165	GROUND	below LH side of dash	07-1	
X1166	GROUND	behind RH footwell trim	07-3	
X1170	(42 PINS, BLACK)	behind glove box (glove box removed)	01-3	10-4
X1171	(55 PINS, BLACK)	behind glove box (glove box removed)	01-3	00-1
X1176	(25 PINS, BLACK)	LH side of engine compartment		05-2

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1178	(2 PINS, WHITE)	below center console LH side of gearshift selector		
X1193	(3 PINS, BLACK)	center console RH side of gearshift selector		01-1
X1213	(2 PINS, BLACK)	center console	31-2	
X1239	(2 PINS, BLACK)	RH C–Pillar		
X1240	(2 PINS, BLACK)	LH C–Pillar		
X1241	(2 PINS, NATURAL)	below LH side of rear seat	21-2	
X1243	(6 PINS, BLACK)	center console near gearshift lever	31-1	07-1
X1245	(1 PIN, BLACK)	in sun visor left		
X1246	(1 PIN, BLACK)	in sun visor right		
X1260	(2 PINS, NATURAL)	behind side panel left		
X1261	(2 PINS, NATURAL)	behind side panel right		
X1292	(4 PINS, NATURAL)	center console		10-1
X1380	(1 PIN, NATURAL)	behind RH footwell speaker grille		
X1381	(1 PIN, NATURAL)	behind LH footwell kickpanel		
X1405	(1 PIN, NATURAL)	rear LH side of engine compartment in Power Distribution Box		
X1406	(1 PIN, WHITE)	rear LH side of engine compartment in Power Distribution Box		
X1439	(2 PINS, BLACK)	center console		
X1441	GROUND	below rear seat	00-2	
X1527	(26 PINS, BLUE)	behind center console	03-2	00-2
X1588	(2 PINS, BLACK)	below LH side of dash		
X1659	(15 PINS, YELLOW)	RH side of dash behind glove box	38-3	00-3
X1660	(3 PINS, WHITE)	RH side of steering column	04-3	01-1

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1715	(4 PINS, NATURAL)	behind trim panel, SUBWOOFER		03-3
X1780	(9 PINS, BLACK)	footwell, driver's side behind trim panel		03-6
X1883	(3 PINS, ——)	in driver's door		01-1
X1884	(3 PINS, ——)	in passenger's door		01-1
X1885	(3 PINS, BLACK)	under LH front seat, under carpet left	39-2	09-1
X1886	(3 PINS, BLACK)	under RH front seat, under carpet right		09-1
X1890	(3 PINS, BLACK)	behind front grille behind trim panel		08-1
X1892	(3 PINS, BLACK)	in RH rear side of luggage compartment		01-1
X4770	(4 PINS, NATURAL)	in upper RH C–pillar		10-1
X4771	(4 PINS, NATURAL)	in upper LH C–pillar		10-1
X6000	(88 PINS, BLACK)	rear RH side of engine compartment	00-1	06-1
X6002	(20 PINS, BLACK)	rear RH side of engine compartment	05-1	04-4
X6031	(12 PINS, BLACK)	rear LH side of engine compartment		01-6
X6091	(30 PINS, BLACK)	rear of engine compartment on firewall		05-6
X6101	(2 PINS, BLACK)	top center of engine	36-1	
X6102	(2 PINS, BLACK)	top center of engine	36-1	
X6103	(2 PINS, BLACK)	top center of engine	36-1	
X6104	(2 PINS, BLACK)	top center of engine	36-1	
X6105	(2 PINS, BLACK)	top center of engine	36-1	
X6106	(2 PINS, BLACK)	top center of engine	36-1	
X6120	(2 PINS, BLACK)	LH side of engine compartment right of LH side shock tower	15-1	
X6120	(2 PINS, BLACK)	LH side of engine compartment right of LH side shock tower	20-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6130	(3 PINS, GRAY)	front of engine below intake manifold	11-3	10-2
X6130	(2 PINS, BLACK)	rear LH side of engine compartment	11-2	
X6131	(2 PINS, BLACK)	rear LH side of engine compartment	36-2	
X6133	(2 PINS, BLACK)	front of engine compartment		
X6150	(12 PINS, BLACK)	front RH side of engine compartment	05-1	01-6
X6151	(3 PINS, GRAY)	top RH side of engine		07-4
X6152	(3 PINS, GRAY)	top RH side of engine		07-4
X6153	(3 PINS, GRAY)	top RH side of engine		07-4
X6154	(3 PINS, GRAY)	top RH side of engine		07-4
X6155	(3 PINS, GRAY)	top RH side of engine		07-4
X6156	(3 PINS, GRAY)	top RH side of engine		07-4
X6163	(2 PINS, BLACK)	RH side of engine		
X6203	(3 PINS, BLACK)	front of engine below intake manifold		10-2
X6204	(3 PINS, BLACK)	front of engine below intake manifold		07-3
X6205	(2 PINS, BLACK)	front LH side of engine compartment (318is)	18-2	
X6205	(2 PINS, BLACK)	LH side of engine near oil level stick	36-3	
X6207	(4 PINS, BLACK)	LH side of engine	12-1	07-2
X6209	(3 PINS, BLACK)	front of engine HALL EFFECT CAMSHAFT SENSOR		07-5
X6217	(4 PINS, GRAY)	top front of engine	18-2	07-2
X6231	(2 PINS, BLACK)	LH side of engine compartment near oil level stick	11-1	
X6231	(2 PINS, BROWN)	front of engine below intake manifold (318is)	17-1	
X6238	(2 PINS, BLACK)	LH side of engine (M3)		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6240	(4 PINS, BLACK)	LH side of engine near starter		07-2
X6252	(3 PINS, BLACK)	LH side of engine	13-3	07-3
X6252	(3 PINS, BLACK)	LH side of engine near oil level stick	12-1	10-2
X6256	(4 PINS, BLACK)	front of engine	11-1	07-2
X6256	(4 PINS, BLACK)	front of engine	17-2	
X6275	(2 PINS, BLACK)	top center of engine	12-2	
X6300	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6301	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6304	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6326	(9 PINS, BLACK)	rear RH side of engine compartment in E–Box	39-1	03-6
X6430	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6431	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6432	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6433	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6437	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6454	GROUND	rear RH side of engine compartment back of RH side shock tower	06-2	
X6456	GROUND	on cylinder head	07-2	
X6509	CABLE SOCKET ALTERNATOR B+	front LH side of engine compartment	05-2	
X6510	CABLE SOCKET STARTER, TERMINAL 50	rear LH side of engine compartment below intake manifold		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6511	CABLE SOCKET STARTER, TERMINAL 30h	rear LH side of engine compartment below intake manifold		
X6512	CABLE SOCKET STARTER, TERMINAL 30	rear LH side of engine compartment below intake manifold		
X6550	(2 PINS, BLACK)	under LH center of car behind trim panel	27-1	
X7000	(88 PINS, BLACK)	rear RH side of engine compartment	00-1	06-1
X7509	CABLE SOCKET ALTERNATOR, TERMINAL D+	front LH side of engine compartment below		
X8500	(88 PINS, BLACK)	rear RH side of engine compartment	00-1	06-1
X8503	(10 PINS, WHITE)	center console RH side of gearshift selector	31-1	02-4
X8505	(16 PINS, BLACK)	on RH side of transmission		03-1
X8507	(1 PIN, BLACK)	below LH side of dash		
X8511	(2 PINS, BLACK)	under front of car LH side of transmission		
X8516	(3 PINS, BLACK)	under center of car above		10-2
X9997	(2 PINS, ORANGE)	behind steering wheel	24-2	
X10010	GROUND	behind RH footwell trim		
X10012	GROUND	behind RH footwell trim	07-3	
X10013	(1 PIN, ——)	top of steering column		
X10054	(12 PINS, BLACK)	below LH side of dash RH side of steering column	28-1	04-5
X10070	(2 PINS, GRAY)	near LH headlight assembly	13-2	
X10071	(2 PINS, BLACK)	near LH headlight assembly	13-2	
X10074	(2 PINS, BLACK)	near LH headlight assembly		
X10075	(2 PINS, GRAY)	near RH headlight assembly		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10092	(9 PINS, BLACK)	behind glove box left	25-2	03-6
X10094	(2 PINS, BLACK)	LH side of engine compartment	12-1	
X10098	(1 PIN, ——)	front RH side of engine compartment		
X10099	(1 PIN, ——)	front RH side of engine compartment		
X10182	(18 PINS, BLACK)	behind glove box (glove box removed)		01-5
X10193	(9 PINS, BLACK)	behind glove box (glove box removed)	01-2	03-6
X10213	(2 PINS, BLACK)	front RH side of engine compartment		
X10216	(2 PINS, YELLOW)	driver's seat right		
X10217	(2 PINS, YELLOW)	passenger's seat left		
X10218	(3 PINS, NATURAL)	under RH front seat	24-1	01-1
X10223	(3 PINS, BLACK)	in convertible top compartment left	22-1	00-1
X10224	(2 PINS, BLACK)	in convertible top compartment left	22-1	
X10225	(3 PINS, BLACK)	underside of luggage compartment lid		01-1
X10226	(9 PINS, BLACK)	behind glove box	25-2	03-6
X10227	(4 PINS, BLACK)	in convertible top compartment		07-6
X10238	(2 PINS, BLACK)	LH side of engine compartment		
X10239	(3 PINS, BLACK)	LH side of engine compartment	12-1	07-3
X10244	(1 PIN, BLACK)	below LH side of dash		
X10250	(2 PINS, BLACK)	behind LH footwell speaker grille		
X10261	(4 PINS, BLACK)	front RH side of engine compartment near RH headlight assembly	09-3	08-5
X10262	(9 PINS, BLACK)	below LH side of dash		03-6
X10266	(6 PINS, BLACK)	below RH side of rear seat (Convertible)		05-3

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10267	(6 PINS, BLACK)	center console		05-3
X10273	(2 PINS, BLACK)	LH side of dash behind instrument cluster		
X11166	GROUND	in lower LH C–pillar behind side panel	35-3	
X11205	(2 PINS, BLACK)	behind rear seats right	22-3	
X11208	(2 PINS, BLACK)	hard top		
X11209	(2 PINS, BLACK)	behind rear seats left behind side panel	35-3	
X11211	(2 PINS, ——)	in convertible top compartment		
X11277	(3 PINS, YELLOW)	on lift gate in rear spoiler		01-1
X11289	(3 PINS, BLACK)	under LH front seat		01-1
X11290	(3 PINS, BLACK)	under RH front seat		01-1
X11335	(3 PINS, ——)	in driver's door	39-3	01-1
X11336	(3 PINS, ——)	in passenger's door		01-1
X11379	(3 PINS, NATURAL)	RH top of radiator	09-3	06-4
X11382	(2 PINS, BLUE)	front cover	35-1	
X11383	(2 PINS, BLUE)	in lower LH C–pillar behind side panel	35-3	
X11385	(3 PINS, BLACK)	front cover	35-1	01-1
X11386	(3 PINS, BLUE)	in lower LH C–pillar behind side panel	35-3	01-1
X11390	(12 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	01-3
X11393	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X11394	(25 PINS, BLACK)	rear LH side of engine compartment back of LH side shock tower		05-5
X11395	(5 PINS, BLACK)	behind glove box ((glove box removed))		04-3
X13004	GROUND	in upper RH rear seatback	06-1	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X13006	GROUND	in upper LH rear seatback		
X13009	GROUND	behind RH footwell trim	07-3	
X13016	GROUND	below LH side of dash	07-1	
X13025	(12 PINS, BLACK)	behind glove box (glove box removed)	01-3	04-5
X13044	(12 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	01-3
X13045	(6 PINS, GREEN)	center console		05-3
X13079	(3 PINS, YELLOW)	behind rear seats		01-1
X13142	(2 PINS, WHITE)	behind rear seats	21-3	
X13143	(3 PINS, BLACK)	behind rear seats behind side panel	35-3	01-1
X13145	(6 PINS, BLACK)	in LH side of luggage compartment	34-3	04-2
X13146	(2 PINS, BLACK)	in LH side of luggage compartment	34-1	
X13152	(4 PINS, BLACK)	in LH side of luggage compartment	34-1	07-6
X13156	(10 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	09-4
X13157	(6 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	05-3
X13159	(26 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	00-2
X13170	(2 PINS, BLACK)	in spare–wheel well	14-3	
X13171	(3 PINS, NATURAL)	RH rear wheel well behind trim panel	14-1	06-4
X13172	(2 PINS, BLACK)	in LH rear side of luggage compartment	14-2	
X13176	(6 PINS, NATURAL)	under roof center panel		05-3
X13226	(2 PINS, BLACK)	behind rear seats		
X13227	(2 PINS, BLACK)	behind rear seats		
X13230	GROUND	behind RH footwell trim above (Convertible)		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X13252	(15 PINS, BLACK)	behind glove box (glove box removed)	01-1	00-3
X13253	(26 PINS, YELLOW)	behind glove box (glove box removed)	01-1	00-2
X13254	(26 PINS, GREEN)	behind glove box (glove box removed)	01-1	00-2
X13255	(12 PINS, NATURAL)	behind glove box (glove box removed)		01-3
X13256	(2 PINS, GRAY)	left from LH rear seat behind trim panel	22-2	
X13257	(2 PINS, GRAY)	RH side of RH rear seat behind trim panel	22-2	
X13258	(15 PINS, WHITE)	behind glove box (glove box removed)	25-2	00-3
X13262	(6 PINS, BLUE)	center console		05-3
X13263	(2 PINS, BLACK)	behind glove box		
X13305	(8 PINS, BLACK)	center console		01-4
X18080	(1 PIN, TRANSPARENT)	in luggage compartment		
X18126	(17 PINS, BLACK)	center console behind radio		02-3
X18135	(4 PINS, ——)	under driver's seat		
X18196	(10 PINS, BLACK)	driver's door LEFT FRONT HIGH RANGE SPEAKER		02-4
X18198	(10 PINS, BLACK)	passenger's door RIGHT FRONT HIGH RANGE SPEAKER		02-4
X18279	(2 PINS, BLACK)	in lower LH front door behind trim panel		
X18280	(2 PINS, BLACK)	in lower RH side of front door behind trim panel		
X18296	(2 PINS, YELLOW)	in lower LH B–pillar behind trim panel	32-2	
X18336	(3 PINS, BLACK)	LH side of glove box (glove box removed)	25-1	01-1
X18518	(4 PINS, BLACK)	under RH front seat		10-1
X18520	(10 PINS, ——)	center console RADIO		
X18521	(10 PINS, ——)	RH side of luggage compartment CD CHANGER		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X18723	GROUND	below LH side of dash		
X18741	(4 PINS, ——)	center of dash MICROPHONE		
X18797	(1 PIN, NATURAL)	in RH rear side of luggage compartment		
X18798	(1 PIN, NATURAL)	in RH rear side of luggage compartment		
X18994	(3 PINS, YELLOW)	rear LH side of engine compartment below		01-1
X19527	(16 PINS, BLACK)	below LH side of dash		08-3
X19561	(6 PINS, BLACK)	on RH side of transmission		05-3
X62001	(4 PINS, BLACK)	under center of car (318is)	37-1	07-2
X62002	(4 PINS, BLACK)	under center of car (318is)	37-2	07-2
X62101	(4 PINS, BLACK)	top center of engine	15-3	07-2
X62102	(4 PINS, BLACK)	under center of car on catalytic converter		07-2
X62201	(4 PINS, BLACK)	top center of engine	15-3	07-2
X62202	(4 PINS, BLACK)	under center of car on catalytic converter		07-2
X90260	(3 PINS, NATURAL)	RH side of steering column	04-3	01-1
X91009	(2 PINS, BLACK)	under passenger's seat		
Y1	ABS HYDRAULIC UNIT	rear LH side of engine compartment back of LH side shock tower	16-2	
Y1w	ABS HYDRAULIC UNIT	LH side of engine compartment		
Y2	AIR CONDITIONING COMPRESSOR	front of engine		
Y4	WATER VALVE ASSEMBLY	rear LH side of engine compartment	16-2	
Y5	DRIVER'S SIDE MIRROR	in upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	in upper RH front door		
Y19	SHIFT–LOCK	center console RH side of gearshift selector		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
Y85 ..	LH ROLLOVER PROTECTION ACTUATOR	behind rear seats (Convertible)	02-3	
Y86 ..	RH ROLLOVER PROTECTION ACTUATOR	behind rear seats (Convertible)	02-3	
Y198 .	EXHAUST GAS FLAP VALVE	in LH rear side of luggage compartment	14-2	
Y199 .	CARBON CANISTER VALVE	in spare–wheel well	14-3	
Y6101	CYL. 1 FUEL INJECTION VALVE	RH front of engine	12-3	
Y6102	CYL. 2 FUEL INJECTION VALVE	top center of engine	12-3	
Y6103	CYL. 3 FUEL INJECTION VALVE	top center of engine	12-3	
Y6104	CYL. 4 FUEL INJECTION VALVE	top center of engine	12-3	
Y6105	CYL. 5 FUEL INJECTION VALVE	top center of engine	12-3	
Y6106	CYL. 6 FUEL INJECTION VALVE	top center of engine	12-3	
Y6120	EVAPORATIVE EMISSION VALVE	front LH side of engine compartment right of LH side shock tower	15-1	
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment right of LH side shock tower	20-3	
Y6130	IDLE SPEED CONTROL VALVE	front of engine below intake manifold	11-3	
Y6130	IDLE SPEED CONTROL VALVE	rear LH side of engine compartment	11-2	
Y6131	INTAKE AIR RESONANCE CHANGEOVER VALVE	rear LH side of engine compartment	36-2	
Y6133	AIR PUMP	front of engine compartment	05-1	
Y6163	SECONDARY AIR PUMP VALVE	RH side of engine		
Y6275	VARIABLE CAMSHAFT CONTROL VALVE 1	top center of engine	12-2	
Y6550	SOLENOID VALVE (”RUNNING LOSSES”)	under LH center of car		
Y8505	TRANSMISSION VALVE UNIT	on LH side of transmission		

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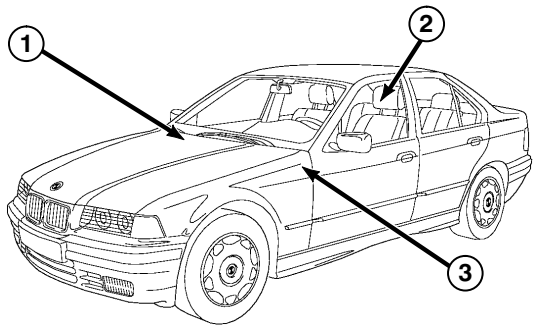
COMPONENT LOCATION CHART

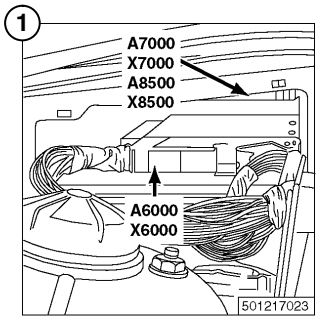
COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
Y8505y	TRANSMISSION VALVE UNIT	on LH side of transmission		
Y8521	TRANSMISSION VALVE UNIT	on RH side of transmission		

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7100.0 COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

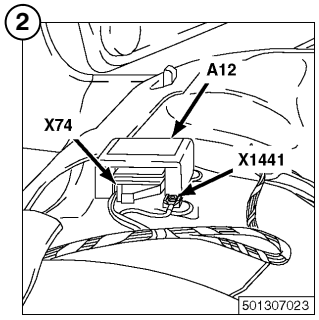




A6000 ENGINE CONTROL MODULE (DME) — X6000, X7000, X8500

A7000 TRANSMISSION CONTROL MODULE (EGS)

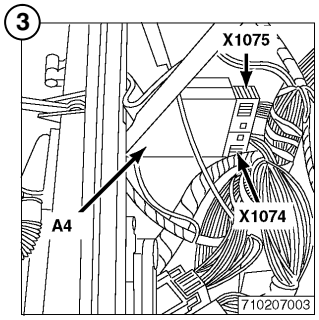
A8500 TRANSMISSION CONTROL MODULE (EGS)



A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE

X1441 GROUND

X74



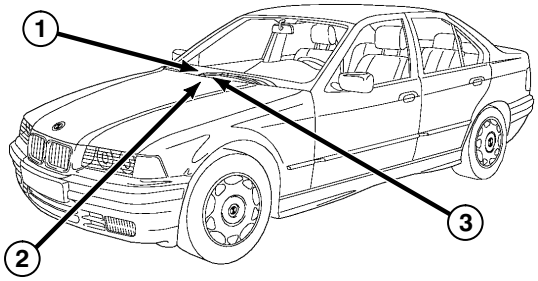
A4 CHECK CONTROL MODULE

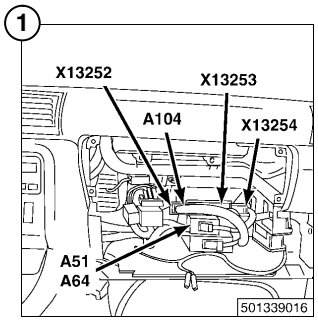
X1074, X1075

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COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

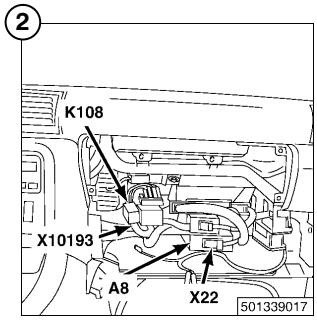




A51 WIPER/WASHER MODULE
X13252
X13253
X13254

A64 WIPER/WASHER MODULE (LOW II)

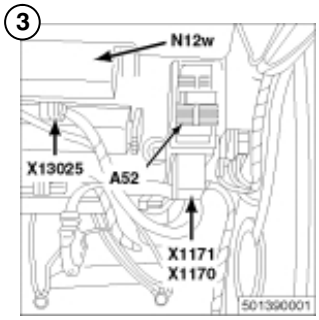
A104 BODY ELECTRONICS CONTROL MODULE (ZKE IV)



A8 CRUISE CONTROL MODULE (TEMPOMAT)

K108 HORN RELAY (ALPINE)

X22
X10193



A52 SLIP CONTROL MODULE (ABS/ASC)

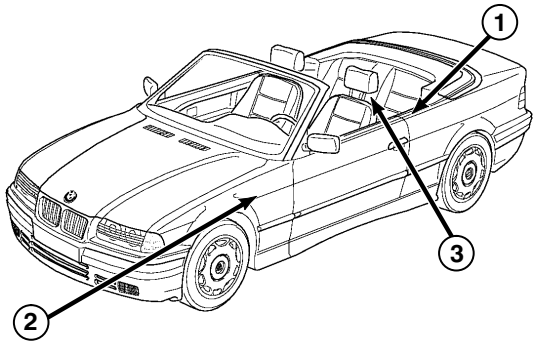
N12w ANTI–THEFT CONTROL MODULE (ALPINE)

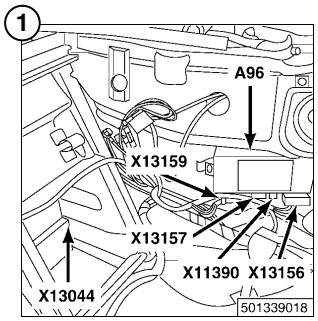
X1170
X1171
X13025

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COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

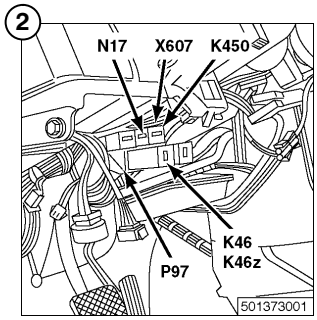




A96
CONVERTIBLE TOP
CONTROL MODULE

X11390
X13044
X13156
X13157
X13159

CONVERTIBLE



K46
HIGH BEAM LIGHT
RELAY

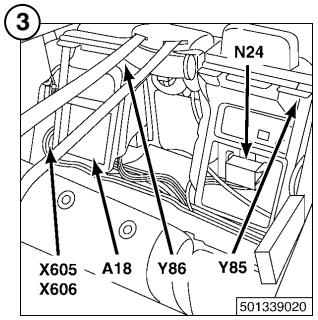
K46z
DAY LIGHT RELAY
MODULE

K450
PARK VENTILATION
RELAY

N17
CRASH CONTROL
MODULE

P97
AUXILIARY FUSE
BOX

X607



A18
HIFI AMPLIFIER

N24
ROLLOVER
SENSOR

Y85
LH ROLLOVER
PROTECTION
ACTUATOR

Y86
RH ROLLOVER
PROTECTION
ACTUATOR

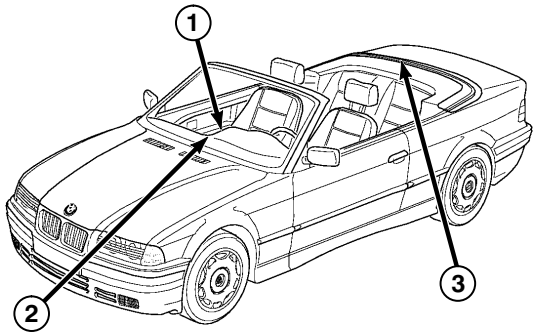
X605
X606

CONVERTIBLE

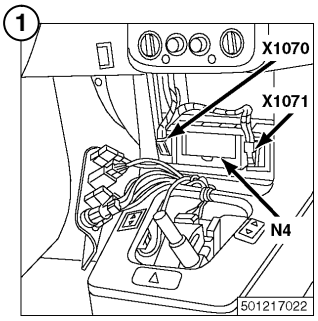
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COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



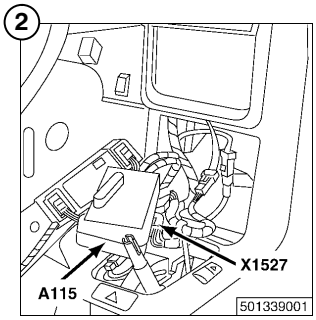
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N4
ON–BOARD
COMPUTER

X1070
X1071

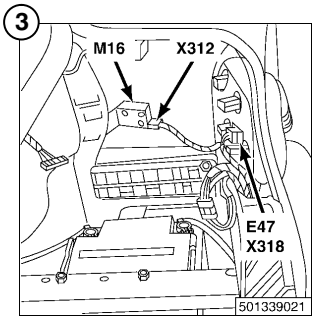
2



A115
AUTOMATIC
CLIMATE CONTROL
MODULE

X1527

3



E47
RIGHT LUGGAGE
COMPARTMENT
LIGHT ASSEMBLY

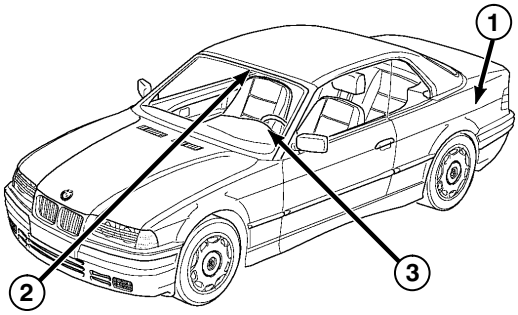
M16
GAS FILLER LOCK
MOTOR

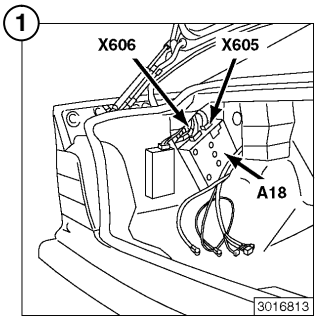
X312
X318

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COMPONENT LOCATION VIEWS

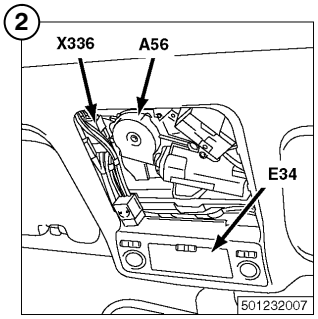
ELECTRICAL CONTROL MODULE LOCATIONS





A18
HIFI AMPLIFIER

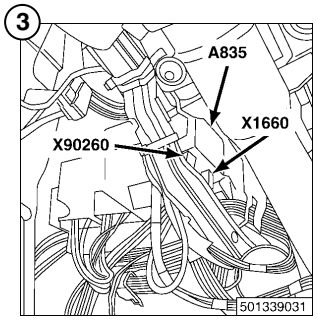
X605
X606



A56
TILT/SLIDE SUN-ROOF CONTROL ASSEMBLY

E34
FRONT DOME LIGHT/MAP READ-ING ASSEMBLY

X336



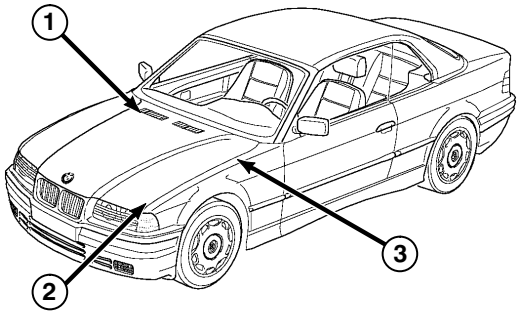
A835
TRANSMITTER MODULE (EWS II)

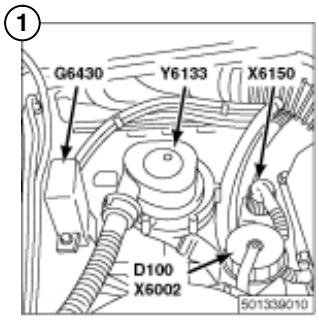
X1660
X90260

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COMPONENT LOCATION VIEWS

B(+)



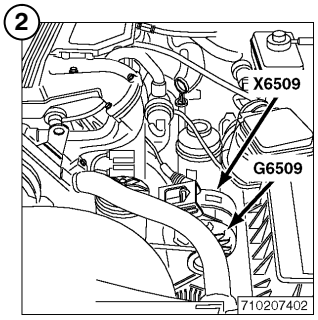


D100
DATA LINK
CONNECTOR

X6002
X6150

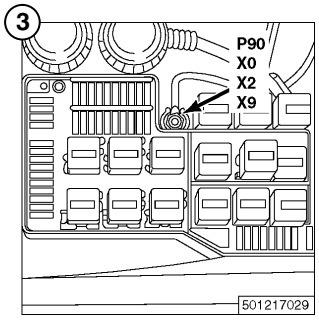
G6430
B+ JUMP START
JUNCTION POINT

Y6133
AIR PUMP



G6509
GENERATOR

X6509
CABLE SOCKET
ALTERNATOR B+



P90
FRONT POWER
DISTRIBUTION BOX

X0
B+ JUNCTION
POINT

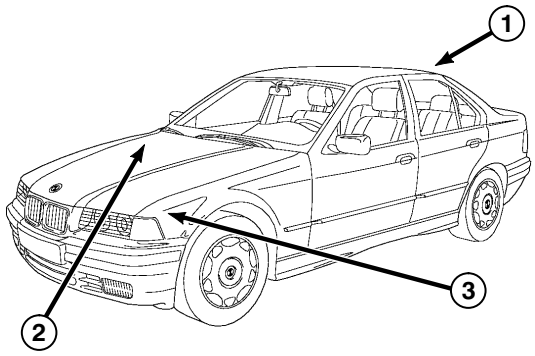
X2
BATTERY B+
START POINT

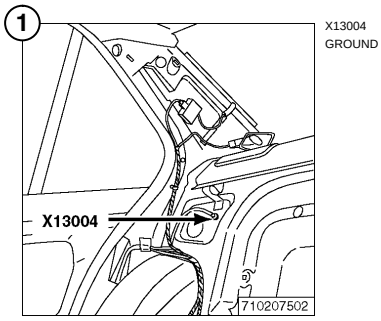
X9
B+ JUNCTION
POINT

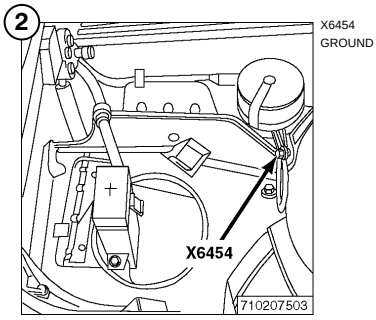
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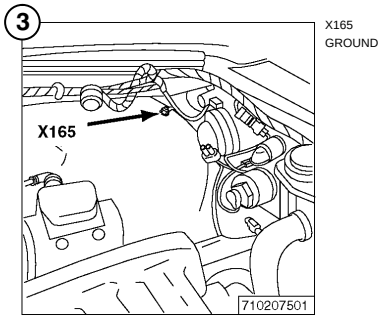
COMPONENT LOCATION VIEWS

B(–)





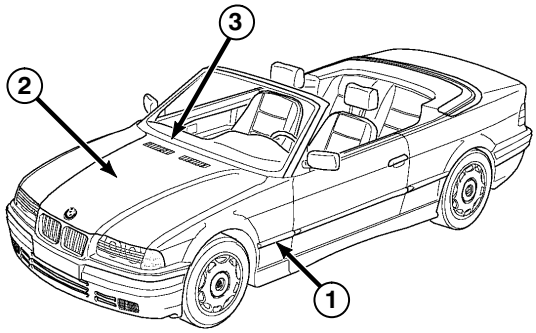


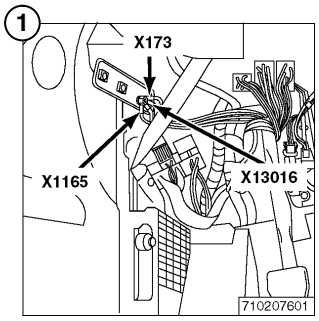


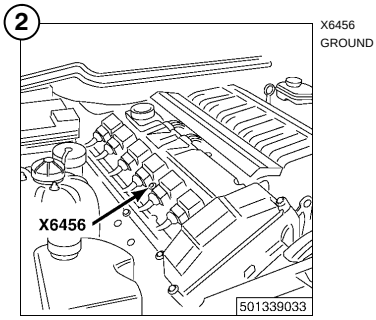
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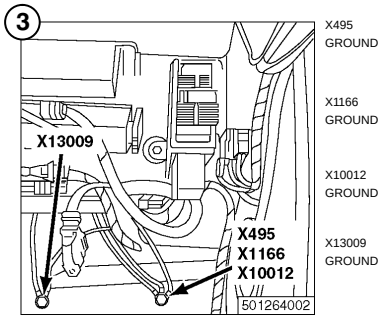
COMPONENT LOCATION VIEWS

B(–)



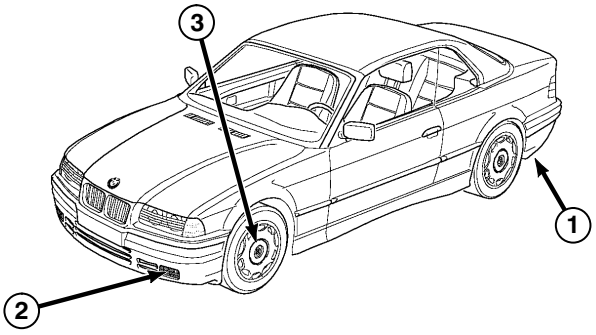


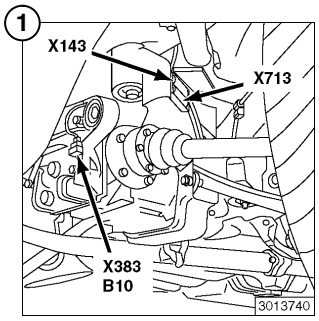




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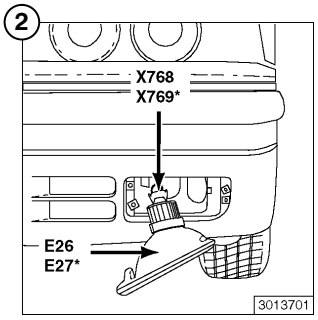
COMPONENT LOCATION VIEWS





B10
VEHICLE SPEED SENSOR

X143
X383
X713

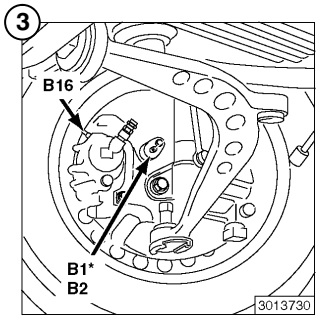


E26
LEFT FOG LIGHT

E27 *
RIGHT FOG LIGHT

X768
X769 *

* RH SIMILAR



B1 *
RIGHT FRONT SPEED SENSOR – ABS

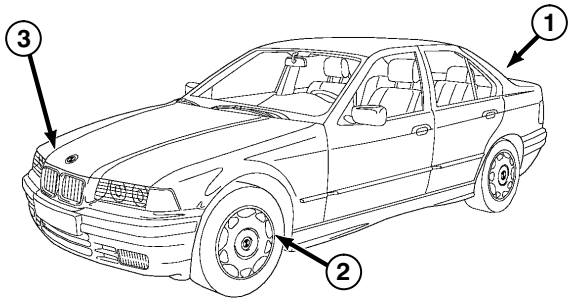
B2
LEFT FRONT SPEED SENSOR – ABS

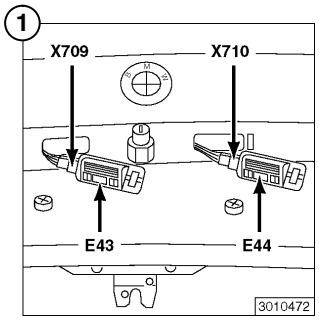
B16
LEFT FRONT BRAKE PAD SENSOR

* RH SIMILAR

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COMPONENT LOCATION VIEWS

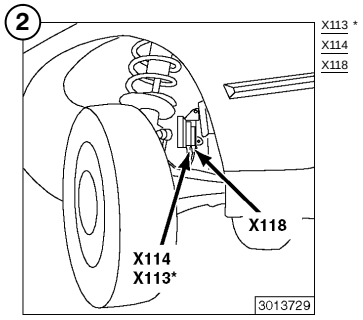




E43
LEFT LICENSE PLATE LIGHT

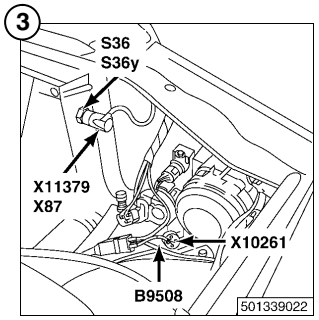
E44
RIGHT LICENSE PLATE LIGHT

X709
X710



X113 *
X114
X118

* RH SIMILAR



B9508
PRESSURE SWITCH

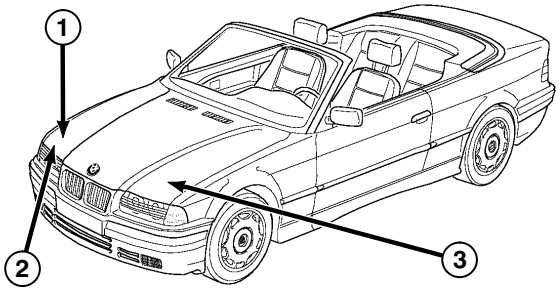
S36
TEMPERATURE SWITCH

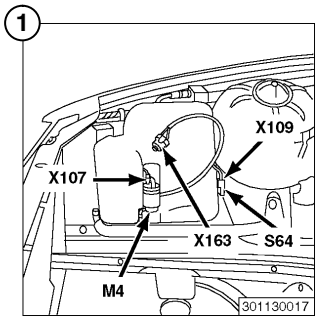
S36y
DOUBLE TEMPERATURE SWITCH

X87
X10261
X11379

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COMPONENT LOCATION VIEWS

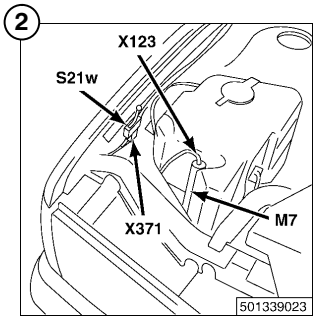




1 M4
WASHER PUMP

S64
WASHER FLUID
LEVEL SWITCH

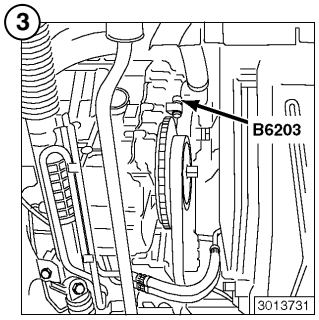
X107
X109
X163



2 M7
HEADLIGHT/FOG
LIGHT WASHER
PUMP

S21w
ENGINE HOOD
SWITCH

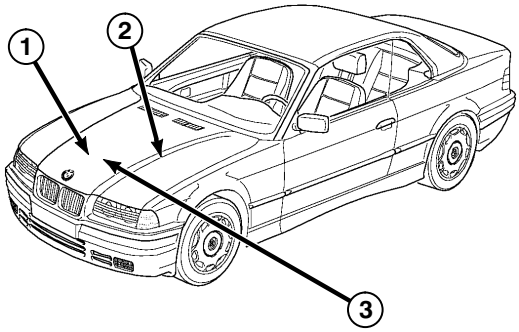
X123
X371

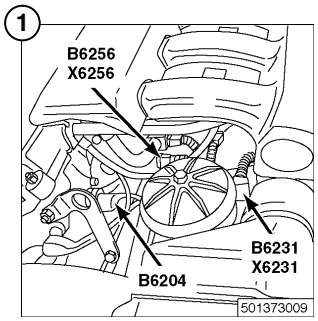


3 B6203
CRANKSHAFT
POSITION/RPM
SENSOR

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COMPONENT LOCATION VIEWS

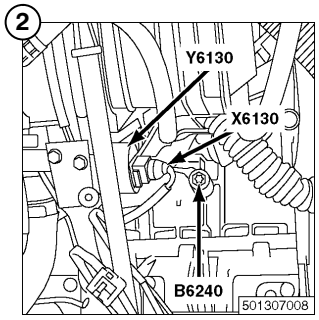




B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) X6231 X6256

B6231 OIL PRESSURE SWITCH

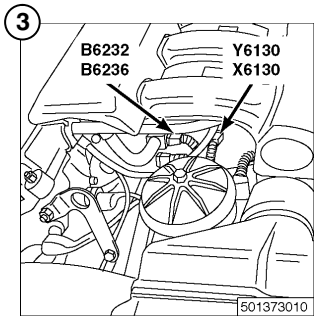
B6256 DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)



B6240 KNOCK SENSOR

Y6130 IDLE SPEED CONTROL VALVE

X6130



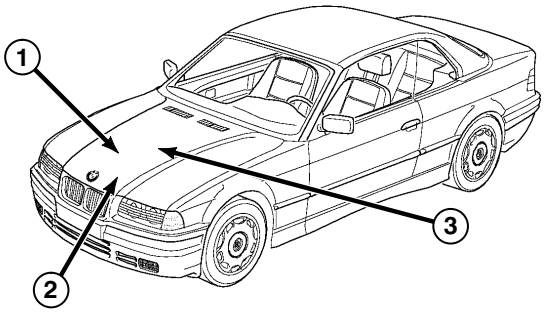
B6232 ENGINE COOLANT TEMPERATURE SENSOR X6130

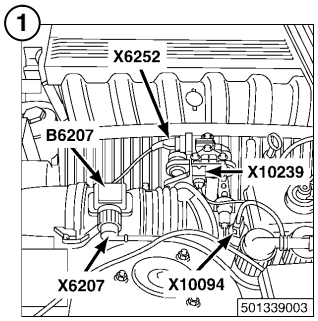
B6236 ENGINE COOLANT TEMPERATURE SENSOR

Y6130 IDLE SPEED CONTROL VALVE

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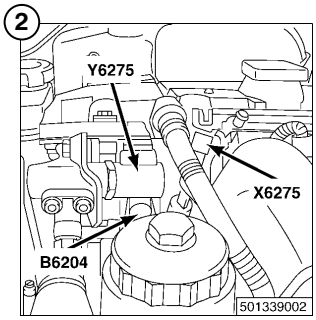
COMPONENT LOCATION VIEWS





B6207
HOT FILM AIR MASS METER

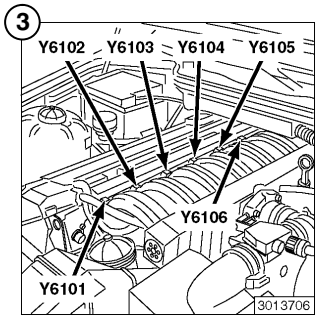
X6207
X6252
X10094
X10239



B6204
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)

Y6275
VARIABLE CAM-SHAFT CONTROL VALVE 1

X6275



Y6101
CYL. 1 FUEL INJECTION VALVE

Y6102
CYL. 2 FUEL INJECTION VALVE

Y6103
CYL. 3 FUEL INJECTION VALVE

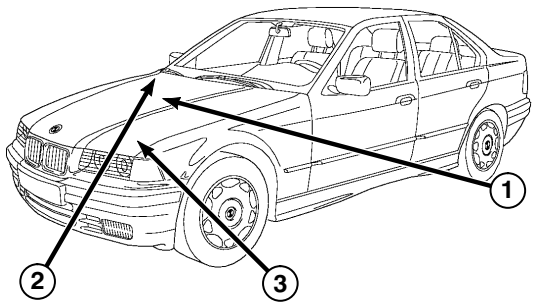
Y6104
CYL. 4 FUEL INJECTION VALVE

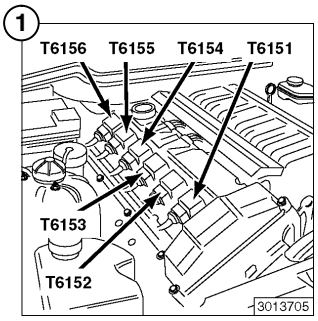
Y6105
CYL. 5 FUEL INJECTION VALVE

Y6106
CYL. 6 FUEL INJECTION VALVE

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COMPONENT LOCATION VIEWS





T6151
CYL. 1 IGNITION COIL

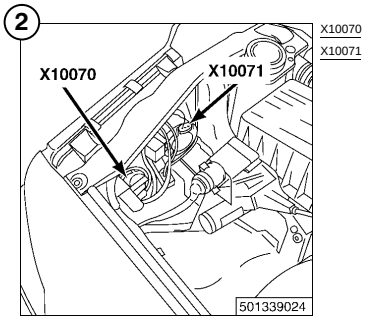
T6152
CYL. 2 IGNITION COIL

T6153
CYL. 3 IGNITION COIL

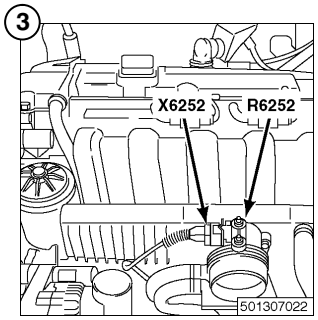
T6154
CYL. 4 IGNITION COIL

T6155
CYL. 5 IGNITION COIL

T6156
CYL. 6 IGNITION COIL



X10070
X10071

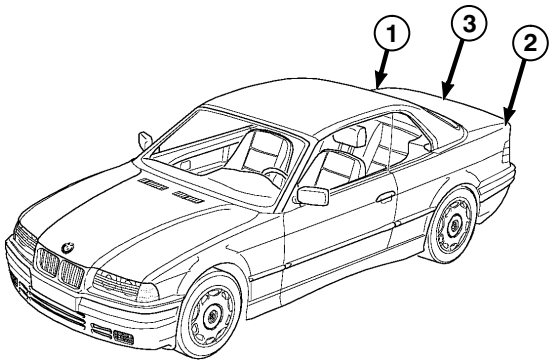


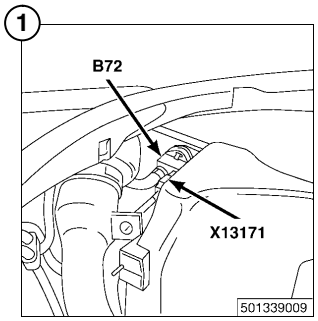
R6252
THROTTLE POSITION SENSOR

X6252

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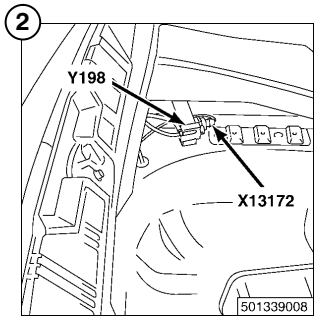
COMPONENT LOCATION VIEWS





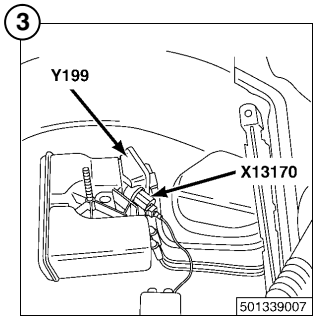
B72
FUEL TANK
PRESSURE
SENSOR

X13171



Y198
EXHAUST GAS
FLAP VALVE

X13172

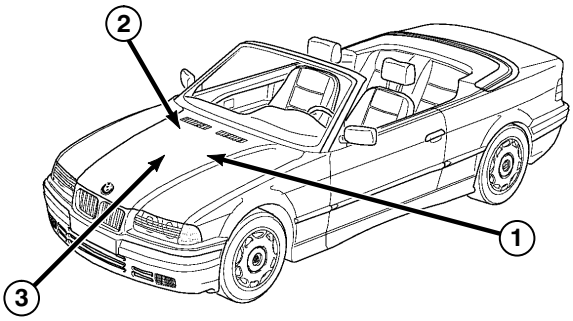


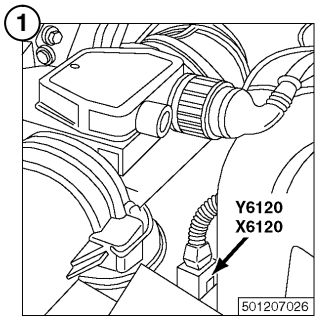
Y199
CARBON
CANISTER VALVE

X13170

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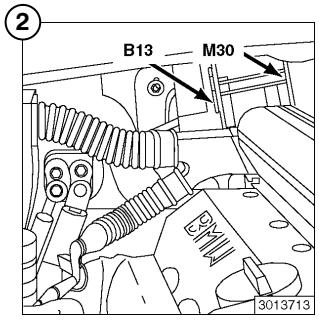
COMPONENT LOCATION VIEWS





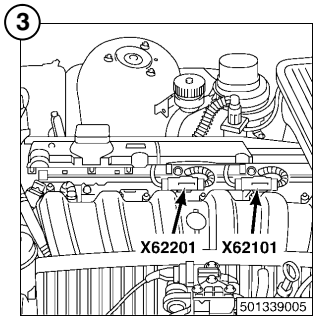
Y6120
EVAPORATIVE
EMISSION VALVE

X6120



B13
OUTSIDE
TEMPERATURE
SENSOR

M30
BLOWER MOTOR

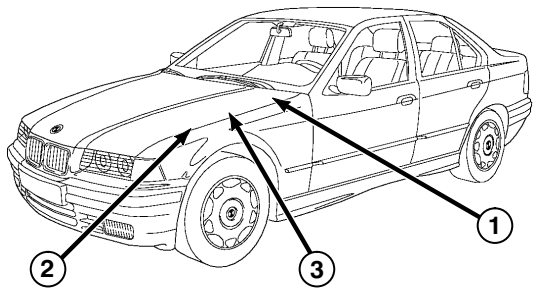


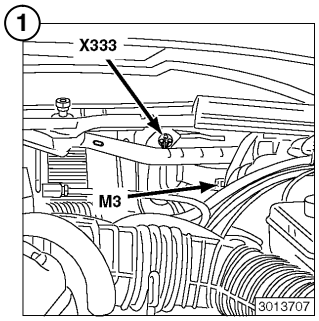
X62101

X62201

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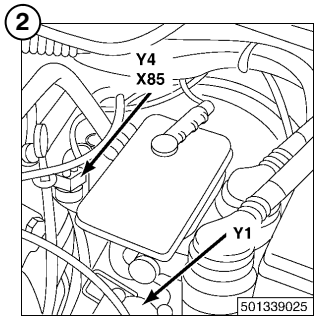
COMPONENT LOCATION VIEWS





M3
WIPER MOTOR

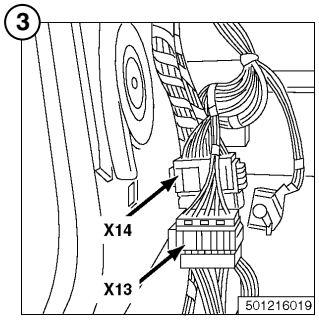
X333



Y1
ABS HYDRAULIC UNIT

Y4
WATER VALVE ASSEMBLY

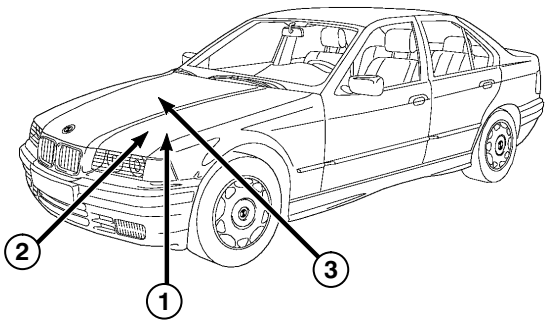
X85

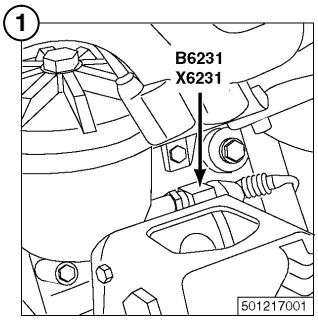


X13
X14

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COMPONENT LOCATION VIEWS

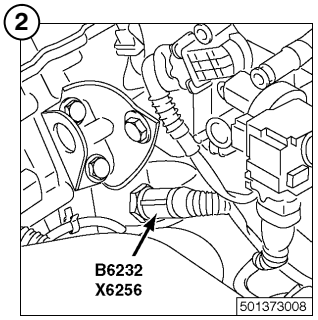




B6231
OIL PRESSURE SWITCH

X6231

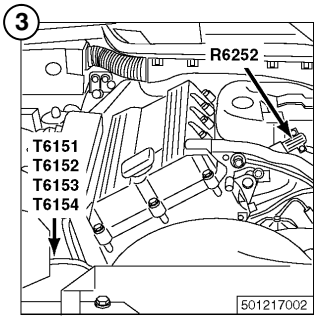
318is



B6232
ENGINE COOLANT TEMPERATURE SENSOR

X6256

318is



R6252
THROTTLE POSITION SENSOR

T6151
CYL. 1 IGNITION COIL

T6152
CYL. 2 IGNITION COIL

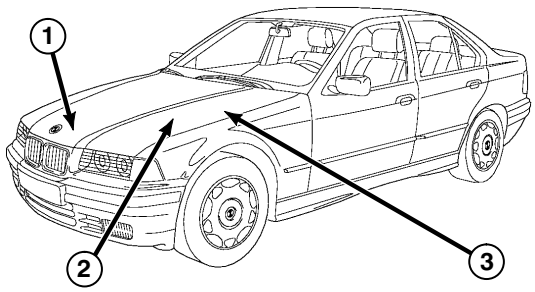
T6153
CYL. 3 IGNITION COIL

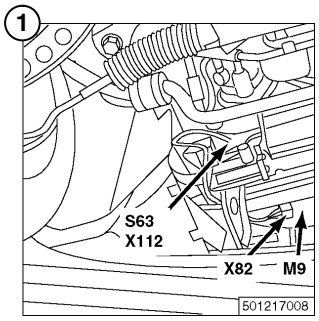
T6154
CYL. 4 IGNITION COIL

318is

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COMPONENT LOCATION VIEWS



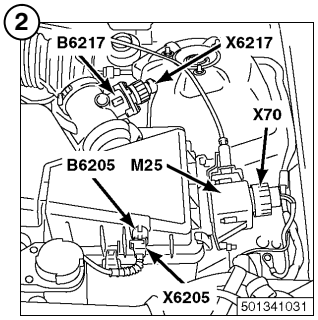


318is

1 M9
AUXILIARY FAN
MOTOR

S63
ENGINE COOLANT
LEVEL SWITCH

X82
X112

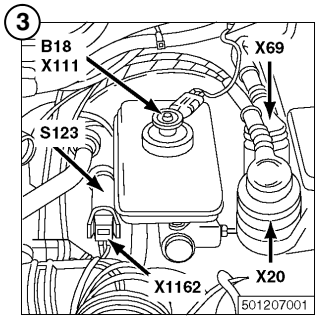


2 B6205
INTAKE AIR
TEMPERATURE
SENSOR

B6217
HOT FILM AIR
MASS METER

M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

X70
X6205
X6217



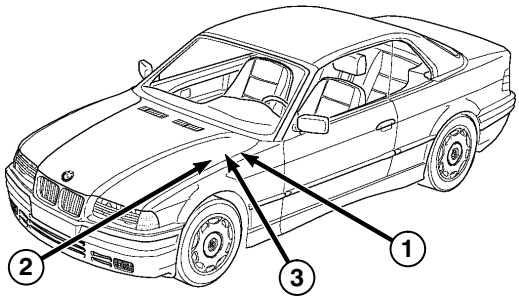
3 B18
BRAKE FLUID
LEVEL SWITCH

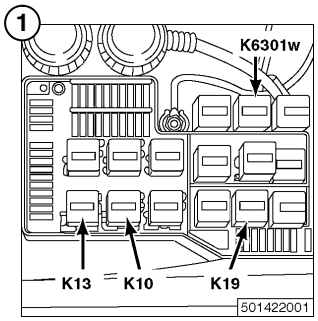
S123
ABS PEDAL
TRAVEL SENSOR

X20
X69
X111
X1162

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COMPONENT LOCATION VIEWS



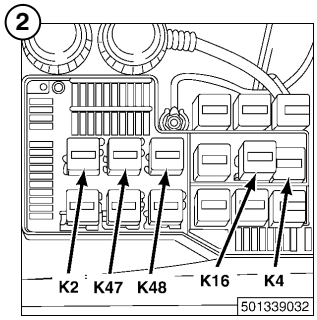


K10
ABS RELAY

K6301w
FUEL PUMP RELAY

K13
REAR DEFOGGER RELAY

K19
COMPRESSOR CONTROL RELAY



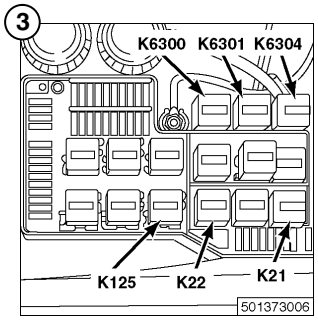
K2
HORN RELAY

K47
FRONT FOG LIGHT RELAY

K4
BLOWER RELAY

K48
LOW BEAM LIGHT RELAY

K16
HAZARD FLASHER RELAY



K21
NORMAL SPEED RELAY

K6300
ENGINE CONTROL MODULE RELAY

K22
HIGH SPEED RELAY

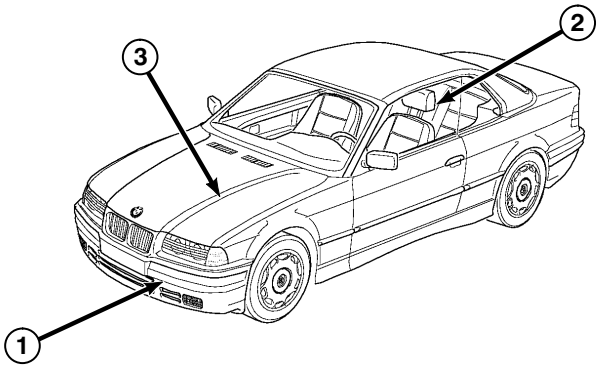
K6301
CYL. 1–6 FUEL PUMP RELAY

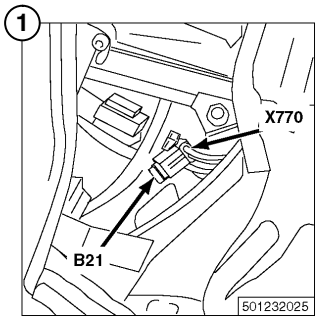
K125
ABS PUMP MOTOR RELAY, TIMED

K6304
SECONDARY AIR PUMP RELAY

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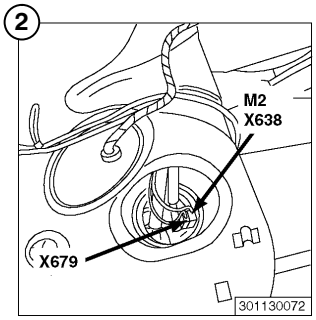
COMPONENT LOCATION VIEWS





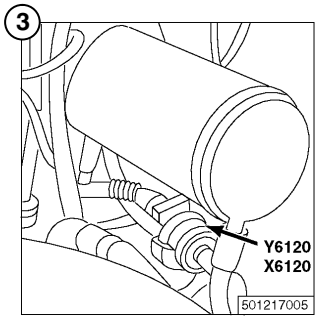
1 B21
ON–BOARD
COMPUTER
TEMPERATURE
SENSOR

X770



2 M2
FUEL PUMP

X638
X679



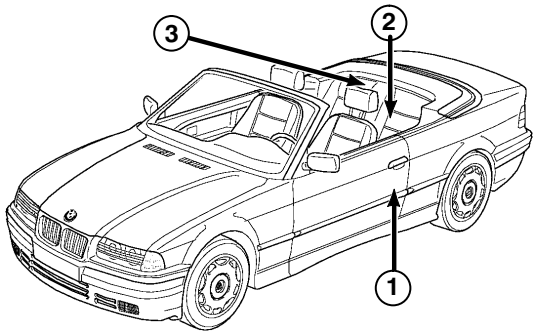
3 Y6120
EVAPORATIVE
EMISSION VALVE

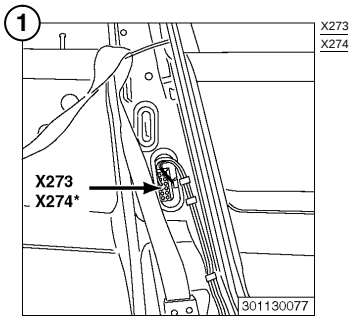
X6120

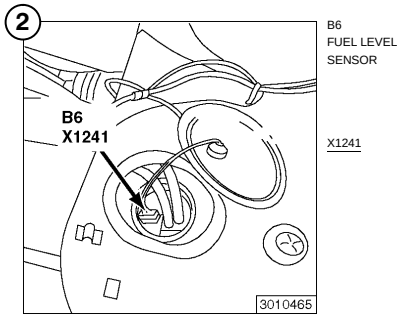
318is

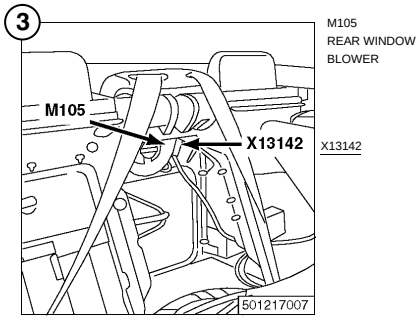
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COMPONENT LOCATION VIEWS



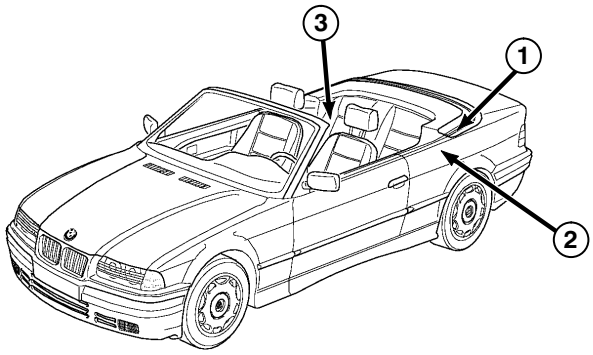


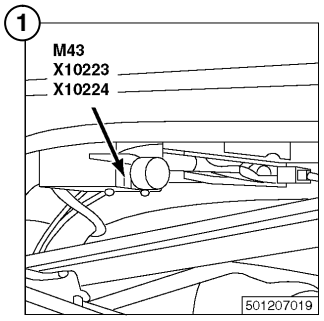




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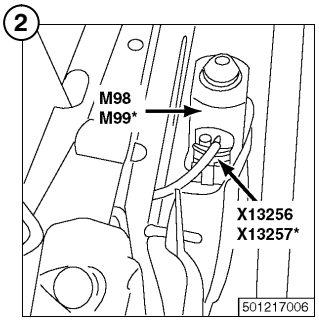
COMPONENT LOCATION VIEWS





M43
CONVERTIBLE TOP
STORAGE LID
LOCK MOTOR

X10223
X10224



M98
LEFT REAR
WINDOW MOTOR

M99 *
RIGHT REAR
WINDOW MOTOR

X13256
X13257 *

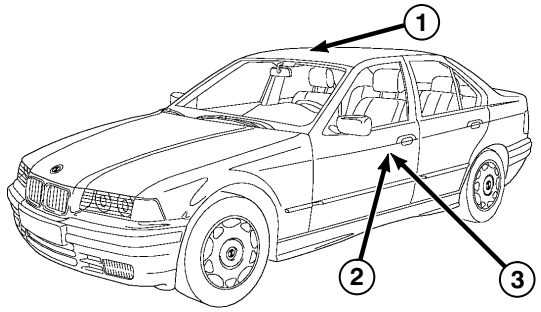
* RH SIMILAR

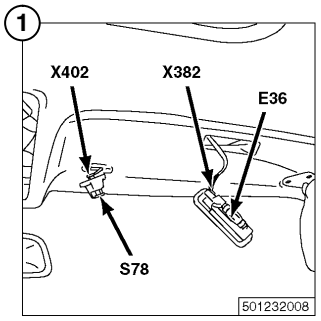


X11205

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COMPONENT LOCATION VIEWS

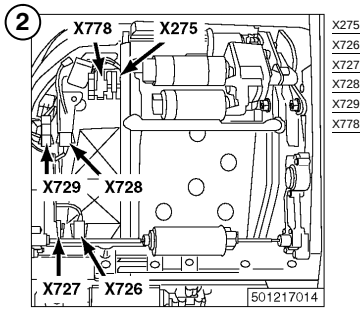




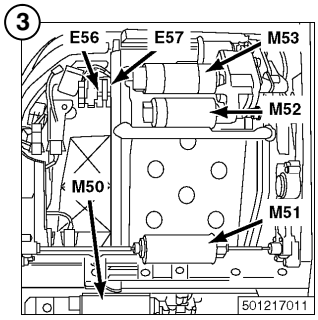
E36
PASSENGER'S MAKE–UP MIRROR LIGHT

S78
PASSENGER'S MAKE–UP MIRROR SWITCH

X382
X402



X275
X726
X727
X728
X729
X778



E56
DRIVER'S SEAT-BACK HEATER

E57
DRIVER'S SEAT HEATER

M50
DRIVER'S SEAT CUSHION TILT MOTOR

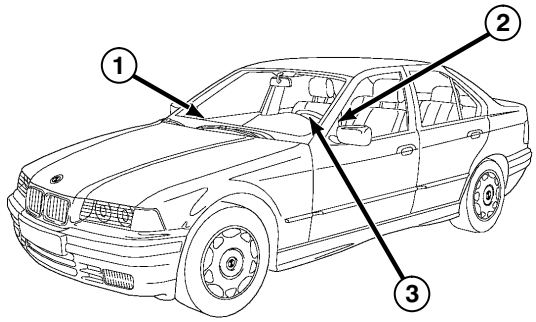
M51
DRIVER'S SEAT MOVEMENT MOTOR

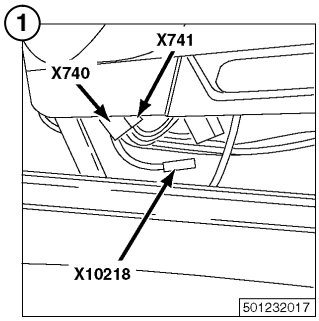
M52
DRIVER'S SEAT HEIGHT MOTOR

M53
DRIVER'S SEAT-BACK RECLINER MOTOR

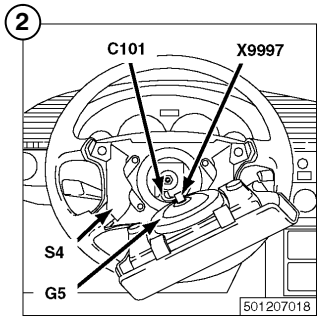
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COMPONENT LOCATION VIEWS





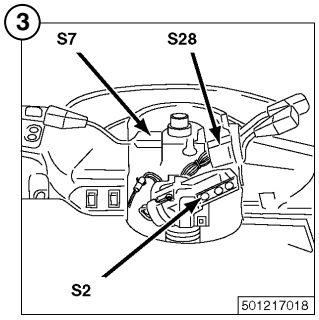
X740
X741
X10218



C101 X9997
CONTACT RING

G5
DRIVER'S AIR BAG
GAS GENERATOR

S4
HORN SWITCH



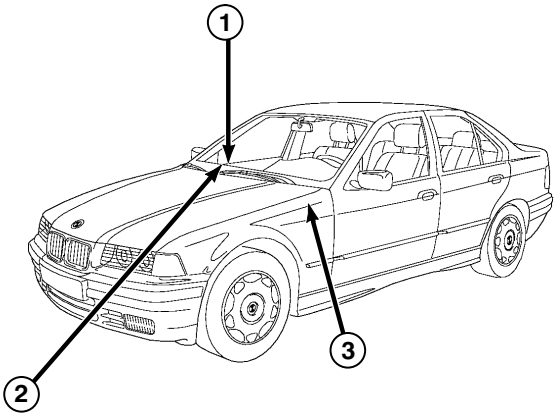
S2
IGNITION SWITCH

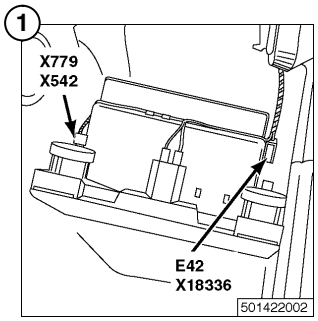
S7
COMBINATION
SWITCH

S28
CRUISE CONTROL
SWITCH

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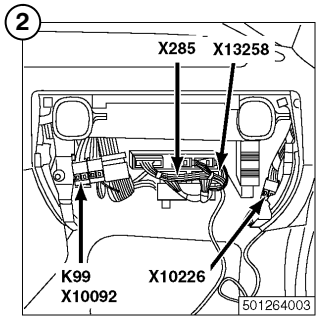
COMPONENT LOCATION VIEWS





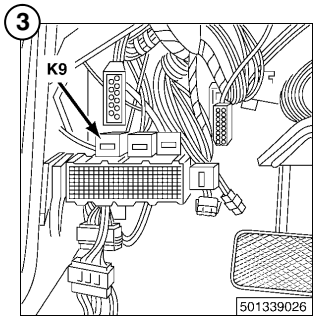
E42
GLOVE BOX LIGHT

X542
X779
X18336



K99
REAR WINDOW
BLOWER RELAY

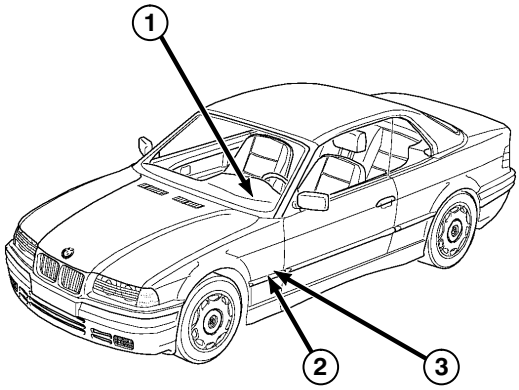
X285
X10092
X10226
X13258

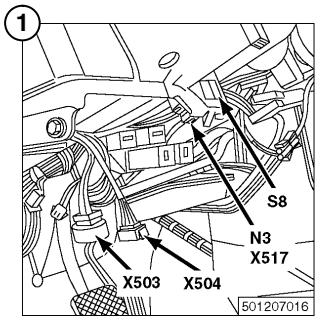


K9
UNLOADER RELAY,
TERMINAL 15

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COMPONENT LOCATION VIEWS

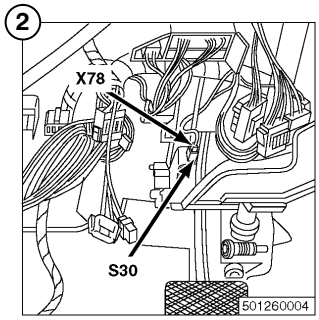




N3
DIMMER

S8
LIGHT SWITCH

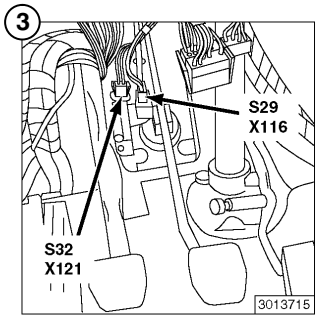
X503
X504
X517



S30
BRAKE LIGHT
SWITCH

X78

AUTOMATIC



S29
BRAKE LIGHT
SWITCH

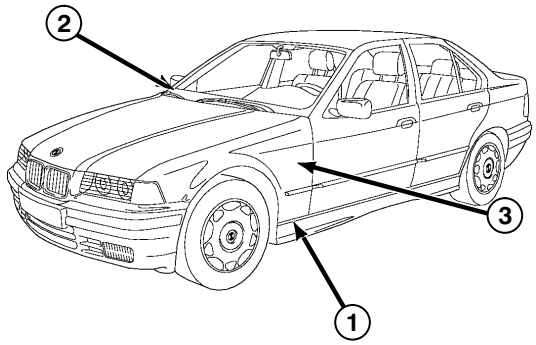
S32
CLUTCH SWITCH

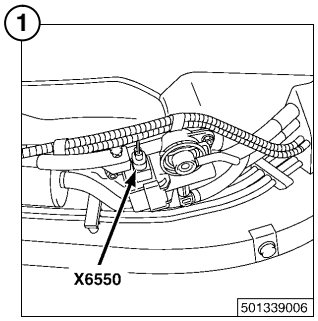
X116
X121

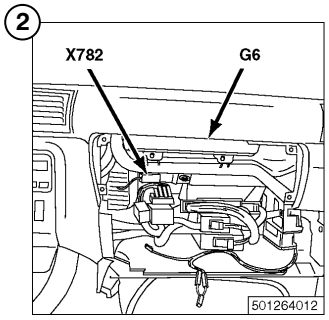
MANUAL

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COMPONENT LOCATION VIEWS

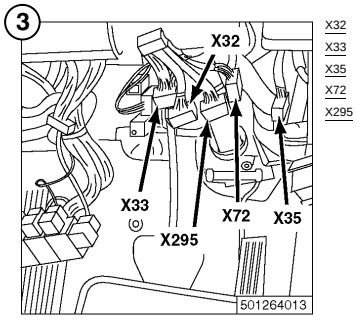






G6
PASSENGER'S AIR BAG GAS GENERATOR

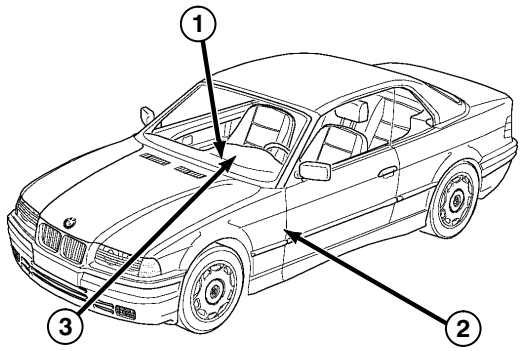
X782

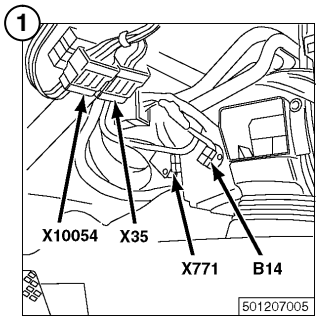


X32
X33
X35
X72
X295

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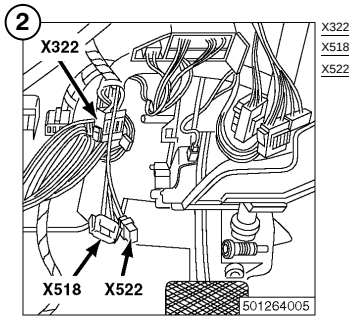
COMPONENT LOCATION VIEWS



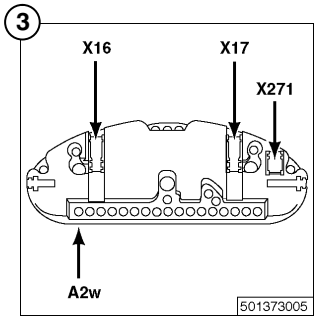


B14
EVAPORATOR
TEMPERATURE
SENSOR

X35
X771
X10054



X322
X518
X522

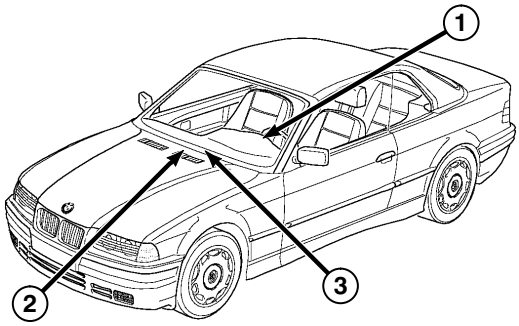


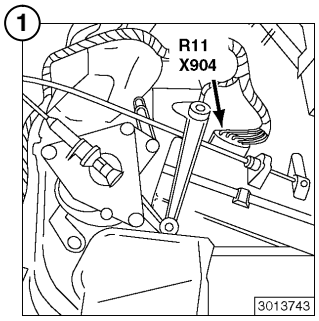
A2w
INSTRUMENT
CLUSTER

X16
X17
X271

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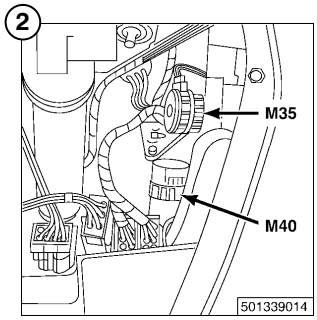
COMPONENT LOCATION VIEWS





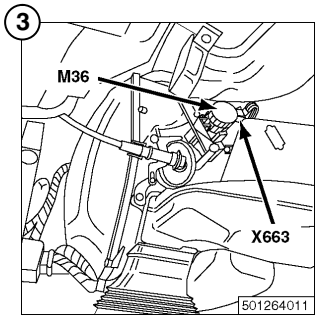
R11
BLOWER
RESISTORS

X904



M35
DEFROSTER FLAP
MOTOR

M40
RECIRCULATION
FLAP MOTOR

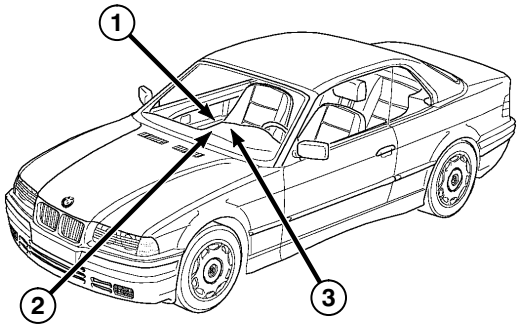


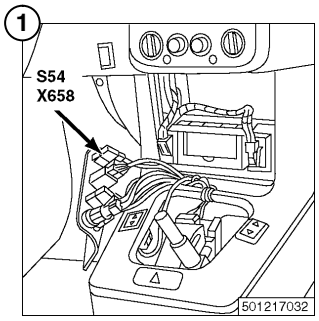
M36
FRESH AIR FLAP
MOTOR

X663

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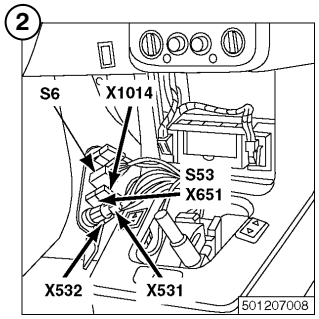
COMPONENT LOCATION VIEWS





S54
PASSENGER'S SEAT, SEAT HEATER SWITCH

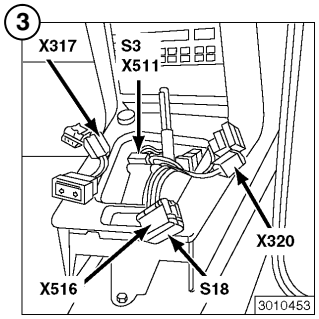
X658



S6
ASC SWITCH

S53
DRIVER'S SEAT, SEAT HEATER SWITCH

X531
X532
X651
X1014



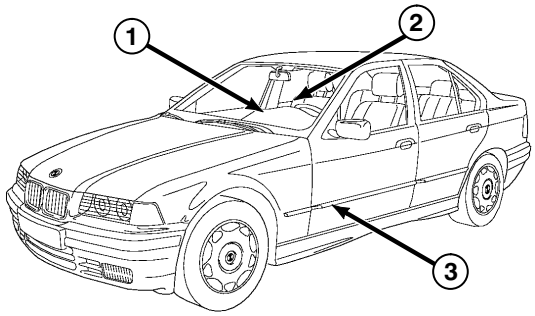
S3
AUTOMATIC TRANSMISSION RANGE SWITCH

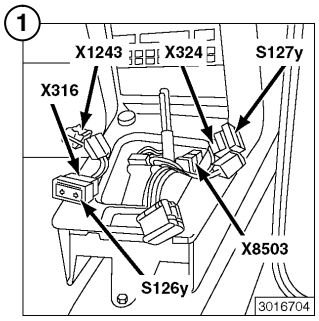
S18
HAZARD SWITCH

X317
X320
X511
X516

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COMPONENT LOCATION VIEWS

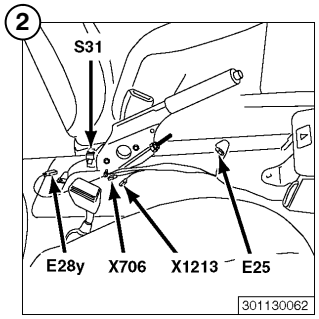




S126y
DRIVER'S POWER WINDOW SWITCH

S127y
PASSENGER'S POWER WINDOW SWITCH

X316
X324
X1243
X8503

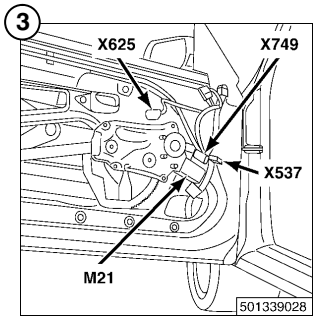


E25
FRONT ASHTRAY LIGHT

X706
X1213

E28y
REAR ASHTRAY LIGHT

S31
PARK BRAKE SWITCH

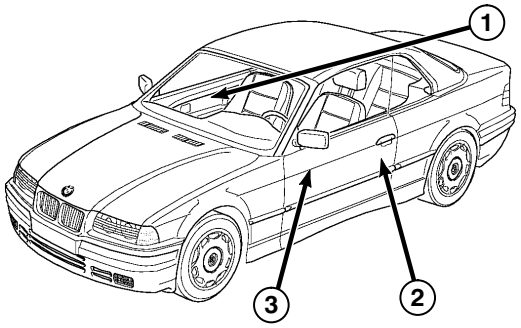


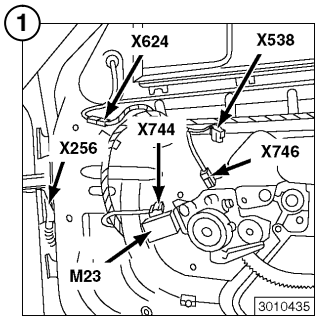
M21
DRIVER'S WINDOW MOTOR

X537
X625
X749

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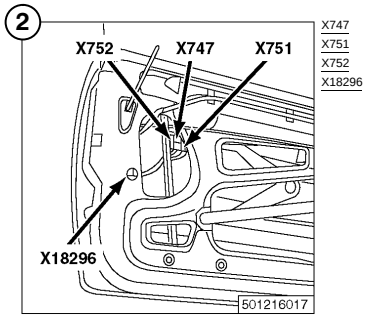
COMPONENT LOCATION VIEWS



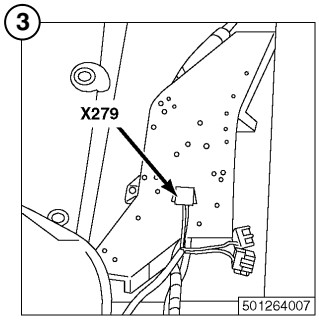


M23
PASSENGER'S
WINDOW MOTOR

X256
X538
X624
X744
X746



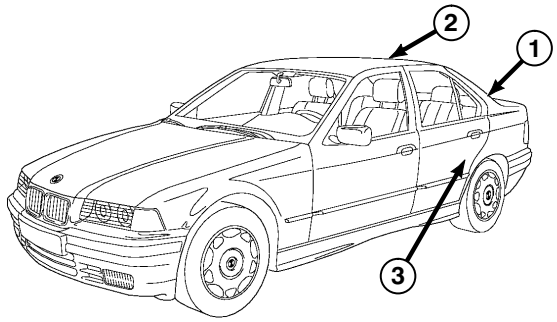
X747
X751
X752
X18296

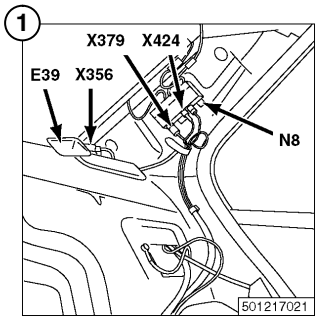


X279

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COMPONENT LOCATION VIEWS

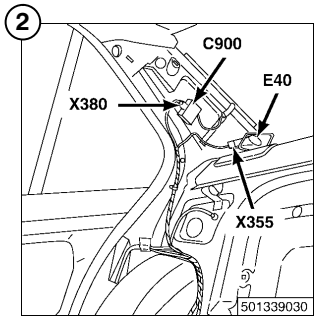




E39
LEFT REAR
INTERIOR LIGHT

N8
ANTENNA
AMPLIFIER AM/FM

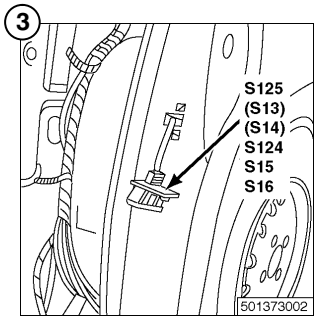
X356
X379
X424



C900
SUPPRESSION
FILTER

E40
RIGHT REAR
INTERIOR LIGHT

X355
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

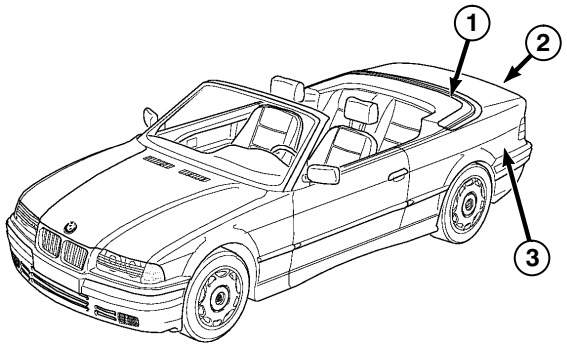
S124 *
RIGHT REAR DOOR
CONTACT

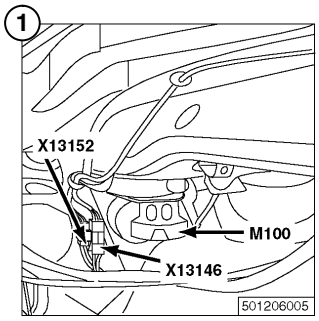
S125 *
LEFT REAR DOOR
CONTACT

* WITH ALPINE

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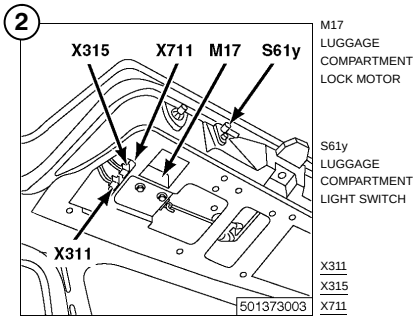
COMPONENT LOCATION VIEWS





M100
CONVERTIBLE TOP
STORAGE LID
MOTOR

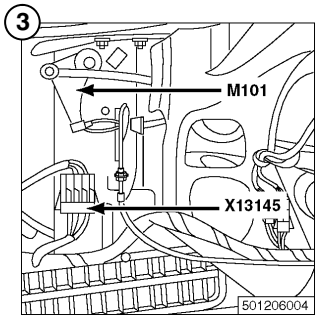
X13146
X13152



M17
LUGGAGE
COMPARTMENT
LOCK MOTOR

S61y
LUGGAGE
COMPARTMENT
LIGHT SWITCH

X311
X315
X711

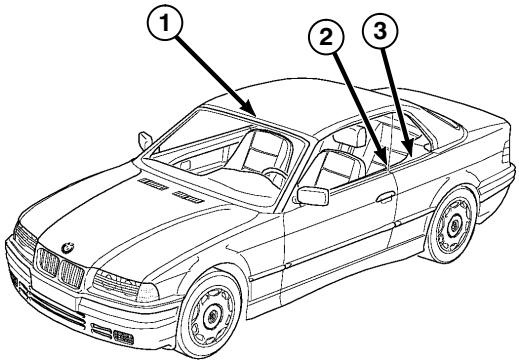


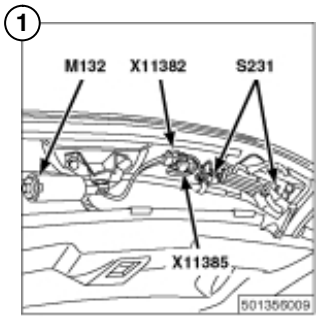
M101
CONVERTIBLE TOP
MOTOR

X13145

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COMPONENT LOCATION VIEWS

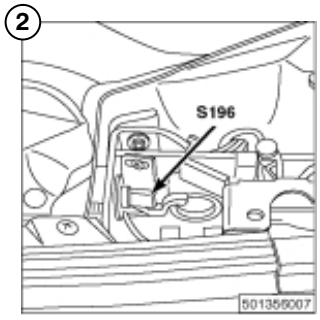




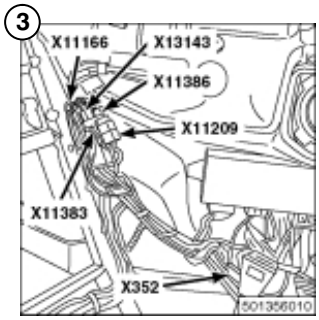
M132
WINDSCREEN
COWL PANEL LOCK
MOTOR

S231
WINDSCREEN
COWL PANEL LOCK
MICRO SWITCH

X11382
X11385



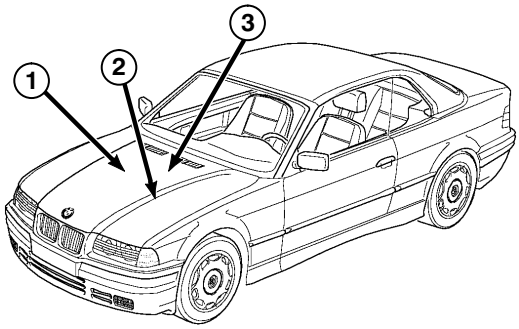
S196
REAR WINDOW
BLOWER MICRO
SWITCH

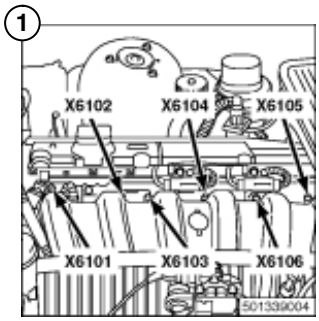


X352
X11166
X11209
X11383
X11386
X13143

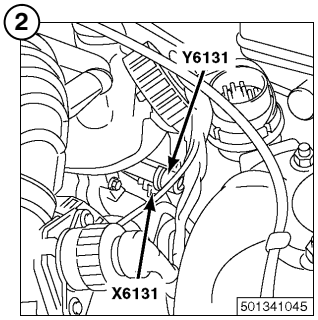
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COMPONENT LOCATION VIEWS



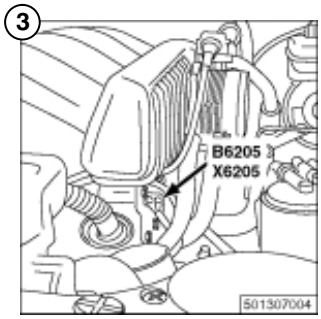


X6101
X6102
X6103
X6104
X6105
X6106



Y6131
INTAKE AIR RES-
ONANCE CHANGE-
OVER VALVE

X6131

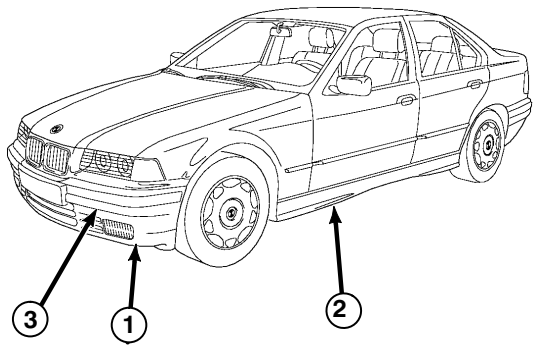


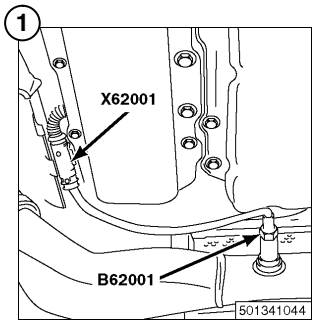
B6205
INTAKE AIR
TEMPERATURE
SENSOR

X6205

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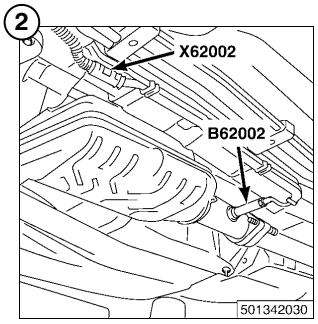
COMPONENT LOCATION VIEWS





B62001
OXYGEN SENSOR
(IN FRONT OF
CATALYTIC
CONVERTER)

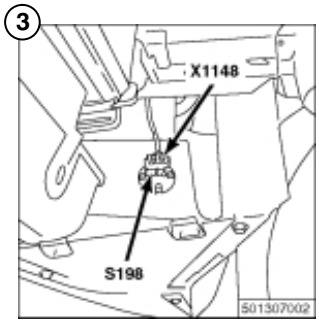
X62001



B62002
OXYGEN SENSOR
(BEHIND
CATALYTIC
CONVERTER)

X62002

318tds

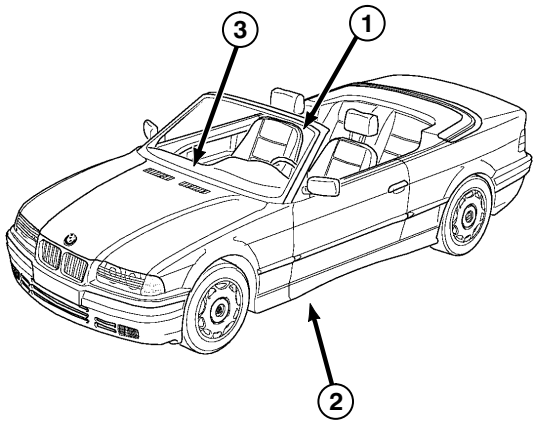


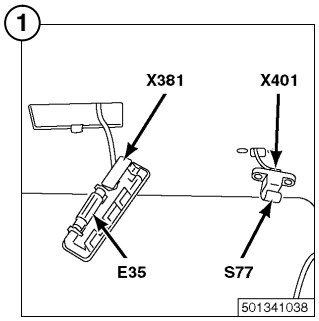
S198
JET HEATER
THERMOSWITCH

X1148

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COMPONENT LOCATION VIEWS

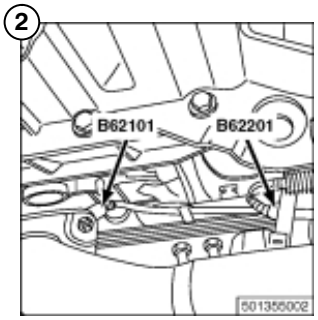




E35
DRIVER'S
MAKE–UP MIRROR
LIGHT

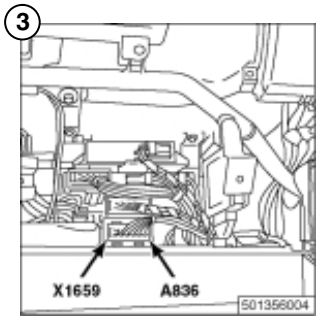
S77
DRIVER'S
MAKE–UP MIRROR
SWITCH

X381
X401



B62101
OXYGEN SENSOR I
(IN FRONT OF
CATALYTIC
CONVERTER)

B62201
OXYGEN SENSOR
II (IN FRONT OF
CATALYTIC
CONVERTER)

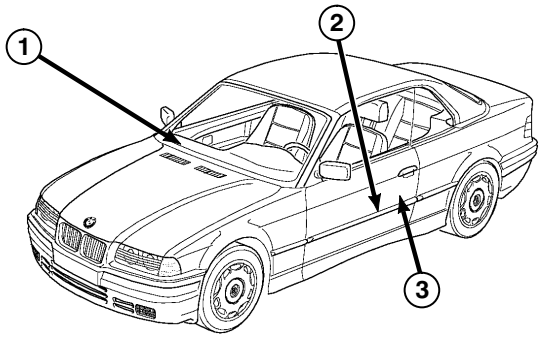


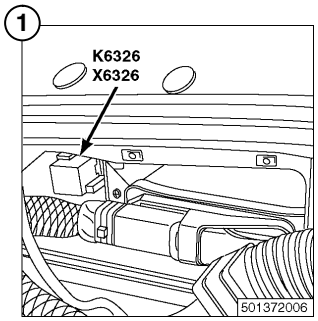
A836
ELECTRONIC
IMMOBILIZER
CONTROL MODULE
(EWS II)

X1659

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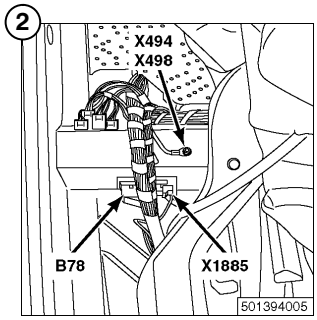
COMPONENT LOCATION VIEWS





K6326
UNLOADER RELAY, TERMINAL 15

X6326

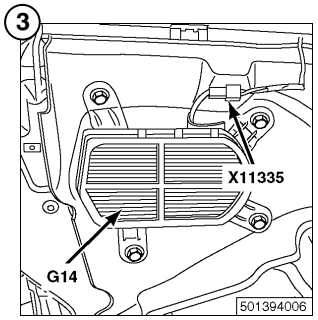


B78
DRIVER'S SIDE IMPACT SENSOR

X1885

X494
GROUND

X498
GROUND



G14
LEFT SIDE AIR BAG GAS GENERATOR

X11335

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8000.0 SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER
X181–X276	FRONT	8000.0-02
X313–X314	REAR	8000.0-03
X313–X314	REAR, CONVERTIBLE	8000.0-04
X428–X481	REAR	8000.0-03
X428–X481	REAR, CONVERTIBLE	8000.0-04
X530–X595	FRONT	8000.0-02
X805	REAR	8000.0-03
X805	REAR, CONVERTIBLE	8000.0-04
X818	IHKA	NOT SHOWN
X824–X830	RADIO	NOT SHOWN
X834	LH REAR DOOR	NOT SHOWN
X835	RH REAR DOOR	NOT SHOWN
X849	DRIVER'S DOOR	NOT SHOWN
X876–X878	RADIO	NOT SHOWN
X906	IHKA	NOT SHOWN
X942	PASSENGER'S DOOR	NOT SHOWN
X1015–X1164	FRONT	8000.0-02
X1149	FRONT	8000.0-02
X1167	REAR	8000.0-03
X1168–X1192	FRONT	8000.0-02
X1212–X1218	REAR	8000.0-03
X1212–X1235	REAR, CONVERTIBLE	8000.0-04
X1225–X1233	FRONT	8000.0-02
X1226–X1235	REAR	8000.0-03
X1258	FRONT	8000.0-02
X1263	REAR, CONVERTIBLE	8000.0-04
X1263–X1299	REAR	8000.0-03
X1382–X1383	RADIO	NOT SHOWN
X1387–X1396	REAR	8000.0-03
X1387–X1396	REAR, CONVERTIBLE	8000.0-04
X1396	REAR	8000.0-03
X1541–X1693	FRONT	8000.0-02
X1894–X2152	REAR	8000.0-03
X2152	REAR, CONVERTIBLE	8000.0-04
X6410–X6492	M44 ENGINE	8000.0-05
X6411–X6492	M3 ENGINE	8000.0-06
X6411–X6492	M52 ENGINE	8000.0-07
X6810–X6900	M3 ENGINE	8000.0-06
X6810–X6900	M52 ENGINE	8000.0-07
X6820–X6900	M44 ENGINE	8000.0-05
X7845–X7846	M44 ENGINE	8000.0-05
X8000–X8576	M3 ENGINE	8000.0-06
X8000–X8776	M52 ENGINE	8000.0-07
X8004–X8576	M44 ENGINE	8000.0-05
X10007–X10104	FRONT	8000.0-02
X10020	FRONT	8000.0-02
X10118	REAR	8000.0-03
X10118	REAR, CONVERTIBLE	8000.0-04
X10120–X10123	FRONT	8000.0-02
X10169	M44 ENGINE	8000.0-05
X10189	REAR, CONVERTIBLE	8000.0-04
X10191–X10192	FRONT	8000.0-02
X10228–X10292	REAR, CONVERTIBLE	8000.0-04
X10231–X10252	FRONT	8000.0-02
X10269	REAR	8000.0-03
X10269	REAR, CONVERTIBLE	8000.0-04

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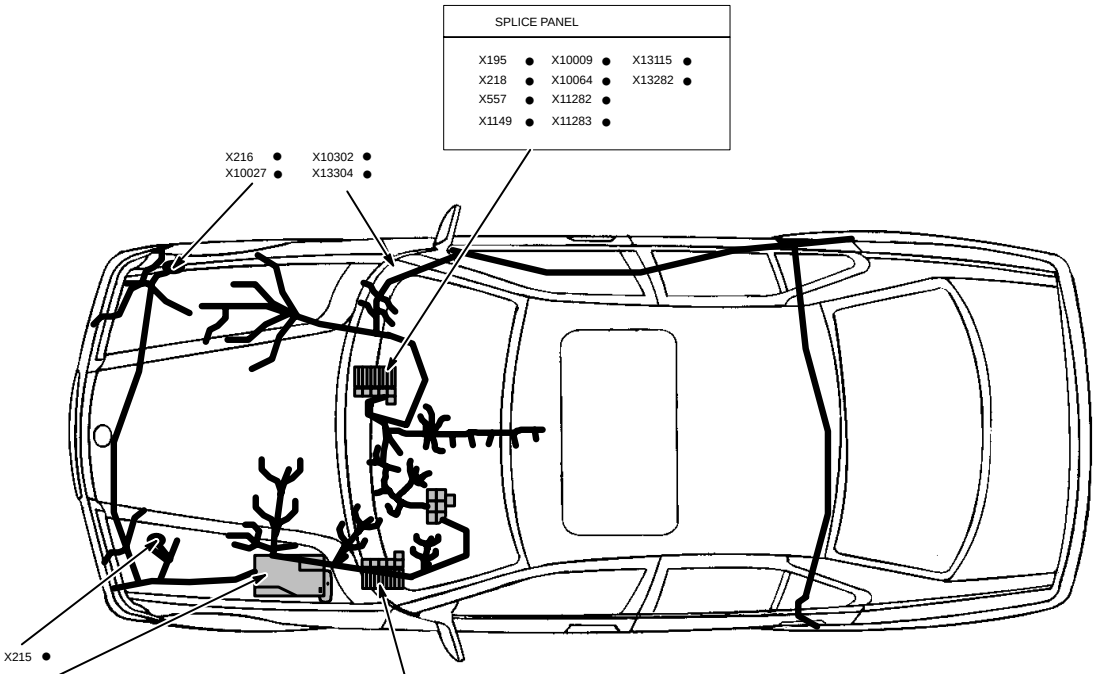
SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER
X10302	FRONT	8000.0-02
X11264	FRONT	8000.0-02
X11269	REAR	8000.0-03
X11279	REAR, CONVERTIBLE	8000.0-04
X11282–X11381	FRONT	8000.0-02
X13000	FRONT	8000.0-02
X13002–X13011	REAR	8000.0-03
X13002–X13011	REAR, CONVERTIBLE	8000.0-04
X13021–X13115	FRONT	8000.0-02
X13127–X13273	REAR, CONVERTIBLE	8000.0-04
X13129–X13173	REAR	8000.0-03
X13282	FRONT	8000.0-02
X13289	REAR	8000.0-03
X13289	REAR, CONVERTIBLE	8000.0-04
X13300–X13304	FRONT	8000.0-02
X13309	REAR	8000.0-03
X13309	REAR, CONVERTIBLE	8000.0-04
X13311–X13313	FRONT	8000.0-02
X18160–X18161	IHKA	NOT SHOWN
X18165–X18784	FRONT	8000.0-02
X18785–X18799	REAR, CONVERTIBLE	8000.0-04
X19513–X19515	RADIO	NOT SHOWN

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SPLICE LOCATION VIEWS

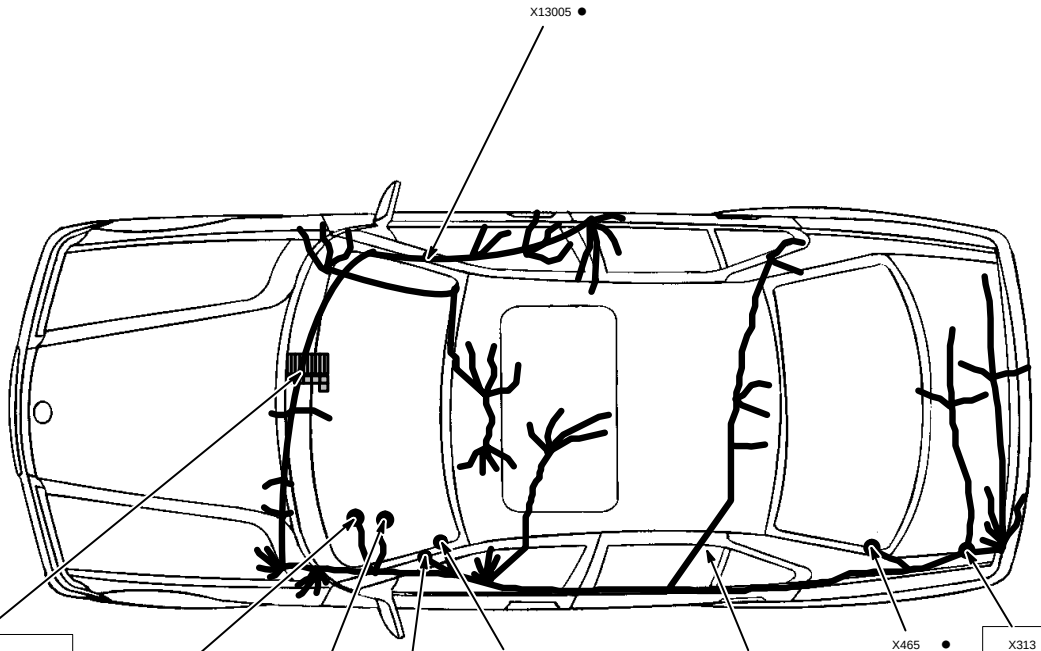
FRONT HARNESS



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SPLICE LOCATION VIEWS

REAR HARNESS



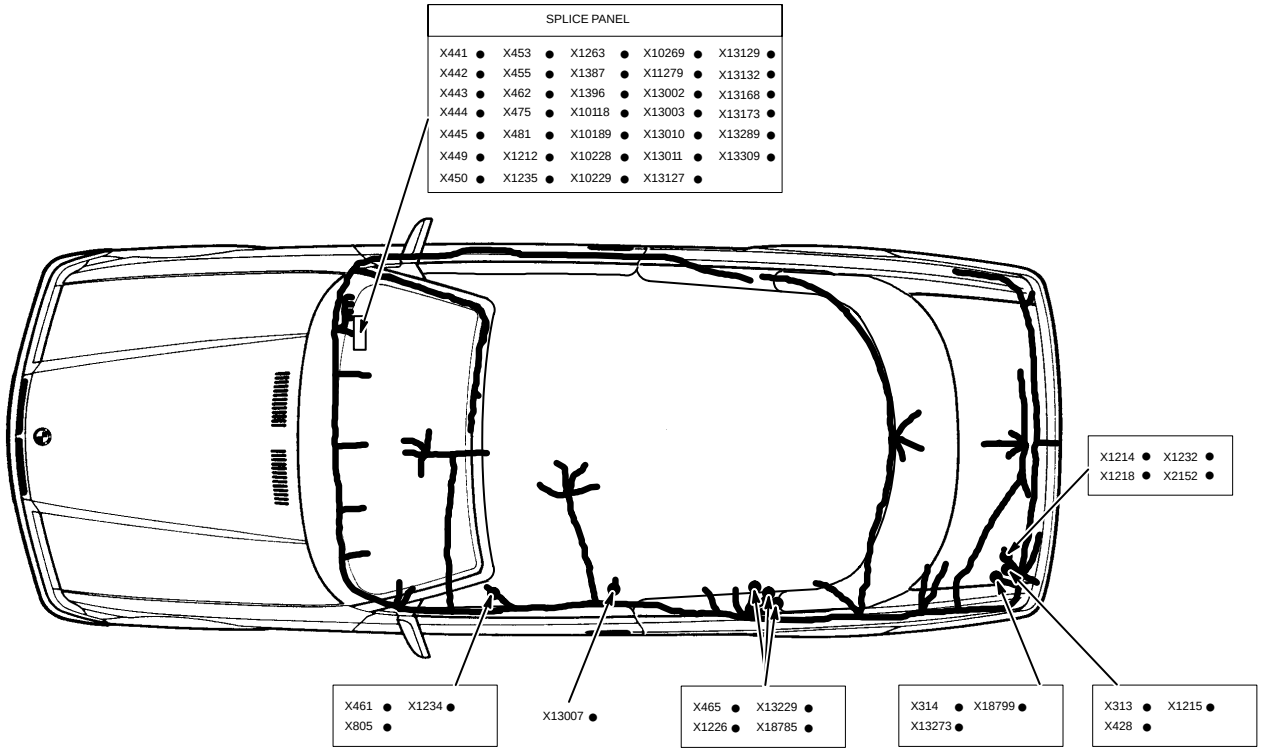
SPLICE PANEL			
X441	X462	X1894	X13129
X442	X475	X1895	X13132
X443	X481	X10118	X13164
X444	X1212	X10269	X13164
X445	X1235	X11269	X13168
X449	X1263	X13002	X13173
X450	X1299	X13003	X13289
X453	X1387	X13010	X13309
X455	X1396	X13011	

X313
X314
X428
X1214
X1215
X1218
X1226
X1232
X2152

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SPLICE LOCATION VIEWS

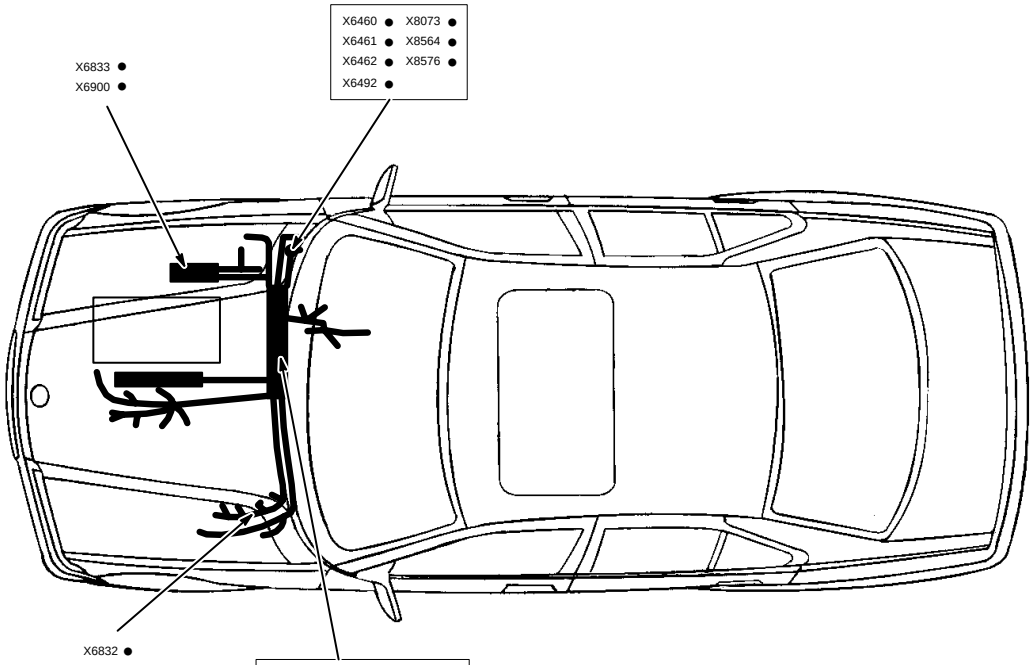
REAR WIRING HARNESS – CONVERTIBLE



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SPLICE LOCATION VIEWS

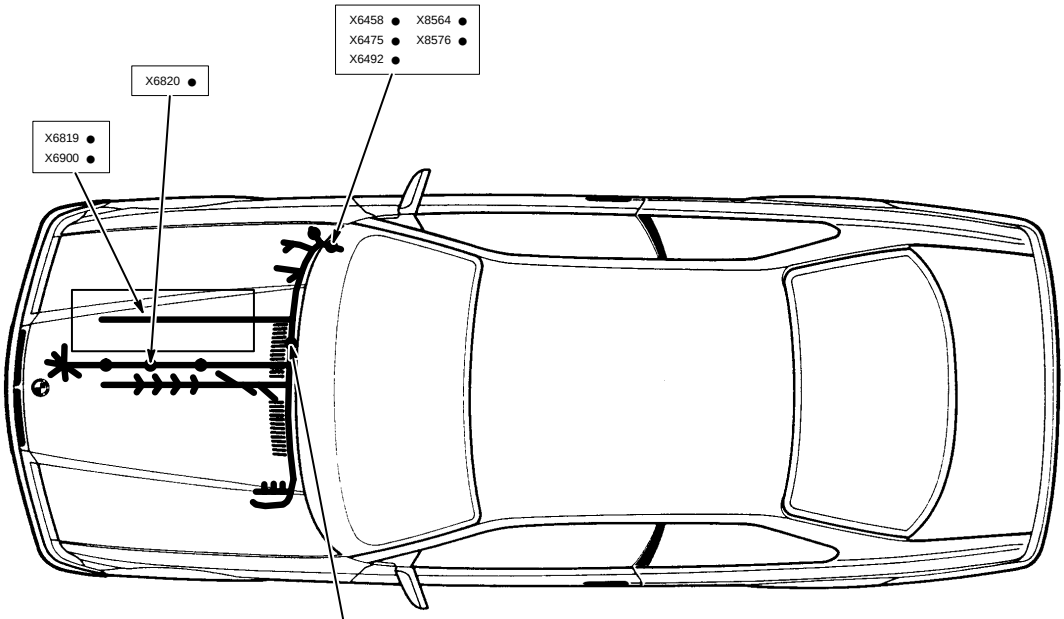
ENGINE HARNESS M44



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SPLICE LOCATION VIEWS

ENGINE HARNESS M3

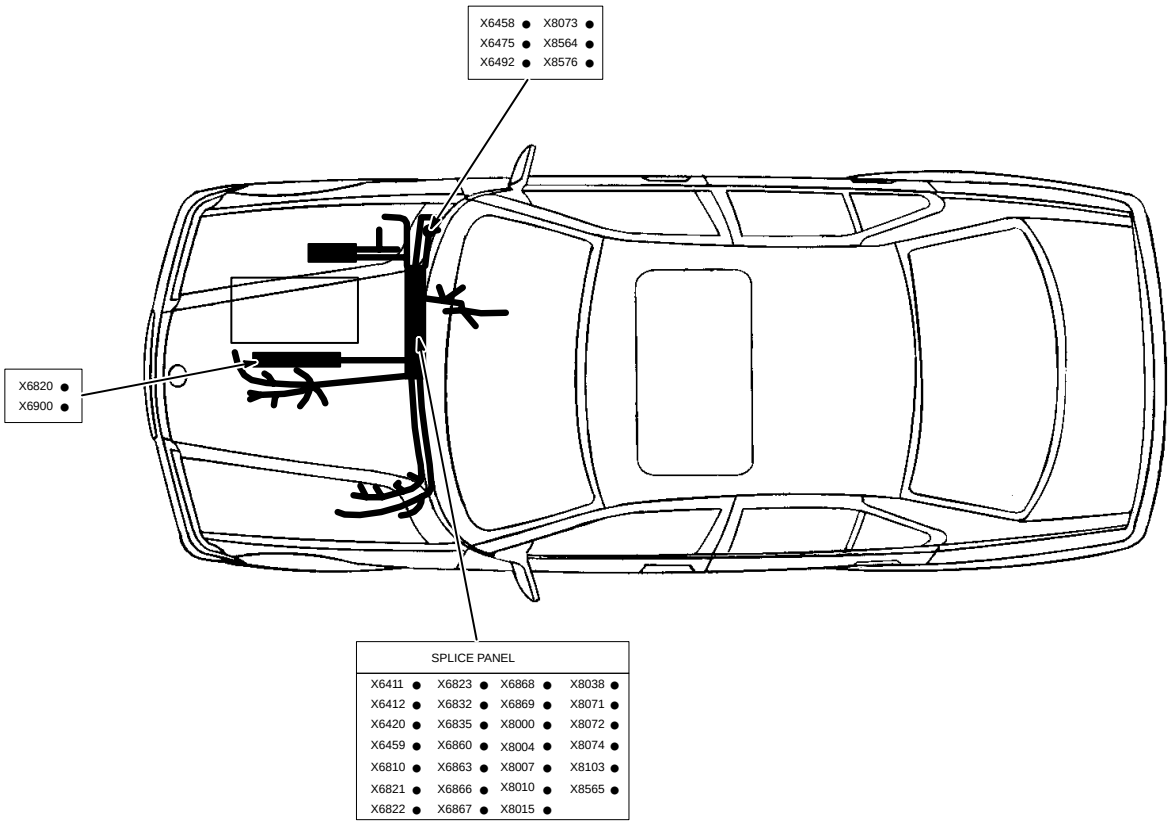


SPLICE PANEL				
X6411 ●	X6822 ●	X6867 ●	X8010 ●	X8074 ●
X6412 ●	X6823 ●	X6868 ●	X8015 ●	X8103 ●
X6420 ●	X6832 ●	X6869 ●	X8038 ●	X8565 ●
X6459 ●	X6835 ●	X8000 ●	X8051 ●	
X6810 ●	X6860 ●	X8004 ●	X8071 ●	
X6821 ●	X6863 ●	X8007 ●	X8072 ●	

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SPLICE LOCATION VIEWS

ENGINE HARNESS M52



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8500.0 CONNECTOR VIEWS

FIG. 1

B030003.02



FIG. 2

B260005.00

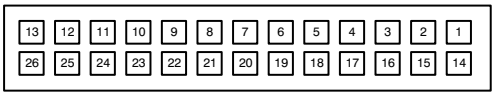


FIG. 3

B150003.00

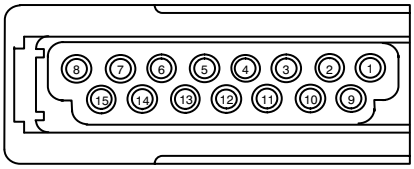
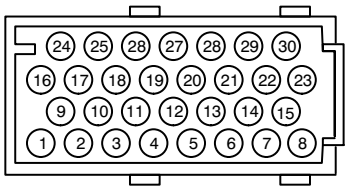


FIG. 4

B300001.00



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CONNECTOR VIEWS

FIG. 1

B030024

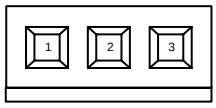


FIG. 2

B120003.00

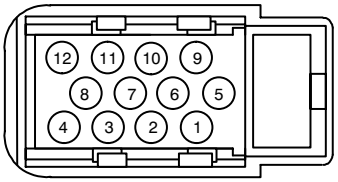


FIG. 3

B120001.00

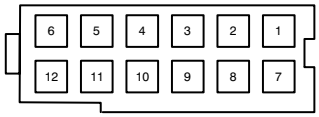


FIG. 4

B080002.00

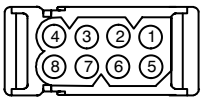


FIG. 5

B180000.00

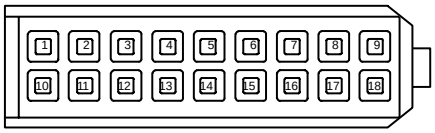
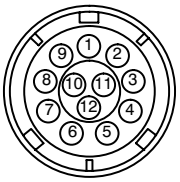


FIG. 6

B120015



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CONNECTOR VIEWS

FIG. 1

B030001.00

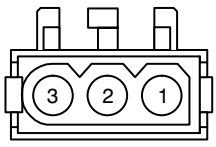


FIG. 2

B070007.00

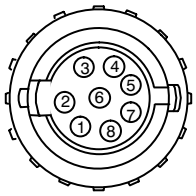


FIG. 3

B170001.00

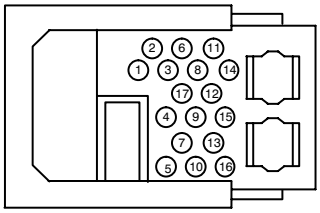


FIG. 4

B100008.00

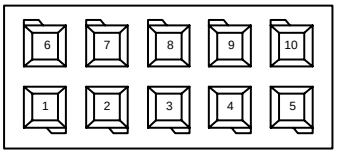
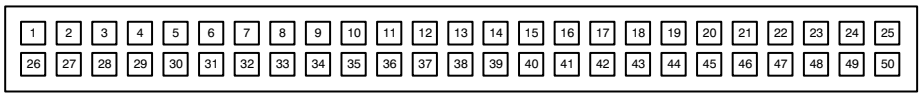


FIG. 5

B500000.00



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CONNECTOR VIEWS

FIG. 1

B160001.00

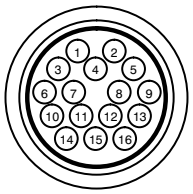


FIG. 2

B050003.00

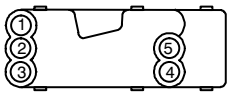


FIG. 3

B040004.00

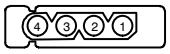


FIG. 4

B120002.02

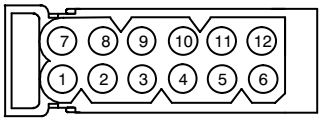


FIG. 5

B080001.00

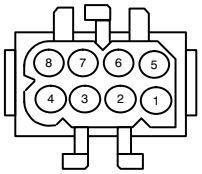
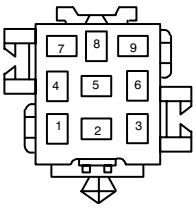


FIG. 6

B090002.00



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CONNECTOR VIEWS

FIG. 1

B210002.00

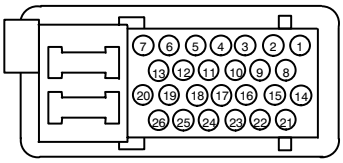


FIG. 2

B060001.02

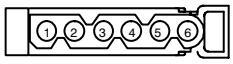


FIG. 3

B050005.00

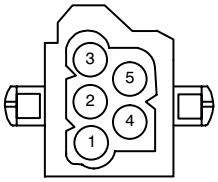


FIG. 4

B200003.00

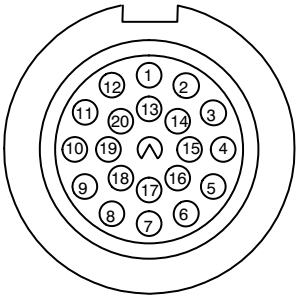
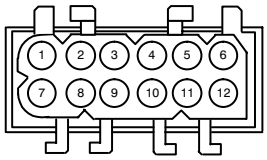


FIG. 5

B120004.01



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CONNECTOR VIEWS

FIG. 1

B060008.00

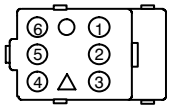


FIG. 2

B250001.01

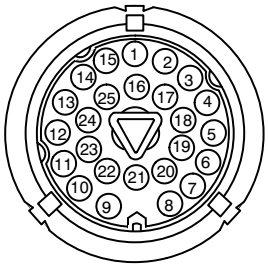


FIG. 3

B060019.02

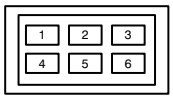


FIG. 4

B060037.00

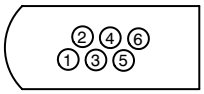


FIG. 5

B250004.00

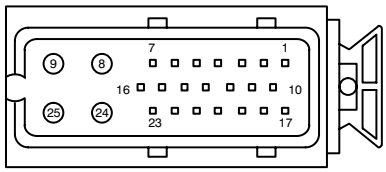
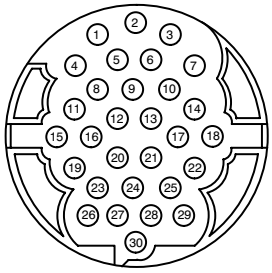


FIG. 6

B300005.00



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CONNECTOR VIEWS

FIG. 1

B880001.00

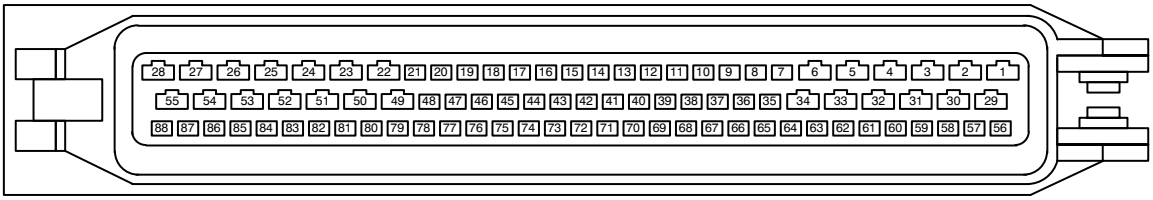


FIG. 2

B060038.00

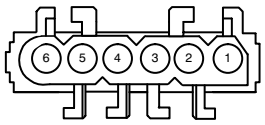


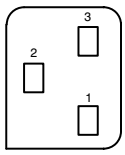
FIG. 3

B030006.00



FIG. 4

B030004.01



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CONNECTOR VIEWS

FIG. 1

B060012.00

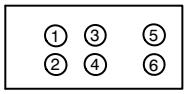


FIG. 2

B040023.01

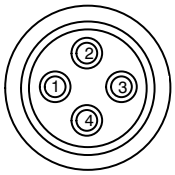


FIG. 3

B030018.00

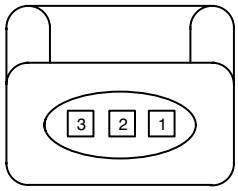


FIG. 4

B030015.08

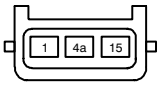


FIG. 5

B030023.00

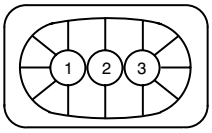
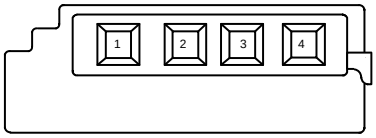


FIG. 6

B040020.00



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CONNECTOR VIEWS

FIG. 1

B030025.00

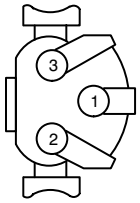


FIG. 2

B060037.01

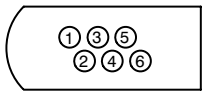


FIG. 3

B160003.00

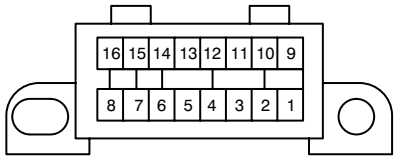


FIG. 4

B060001.00

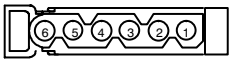
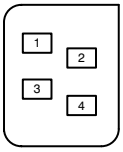


FIG. 5

B040027.00



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CONNECTOR VIEWS

FIG. 1

B030048a

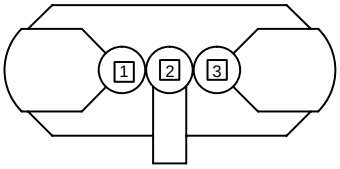


FIG. 2

B030013.00



FIG. 3

B040029.00

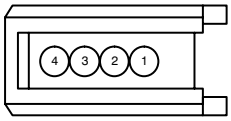
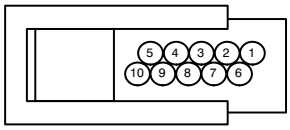


FIG. 4

B100007.00



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CONNECTOR VIEWS

FIG. 1

B040021

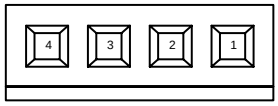


FIG. 2

B030018.01

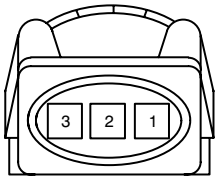


FIG. 3

B030042.01

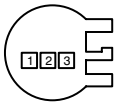
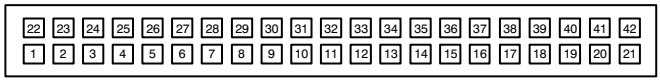


FIG. 4

B420000.00



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