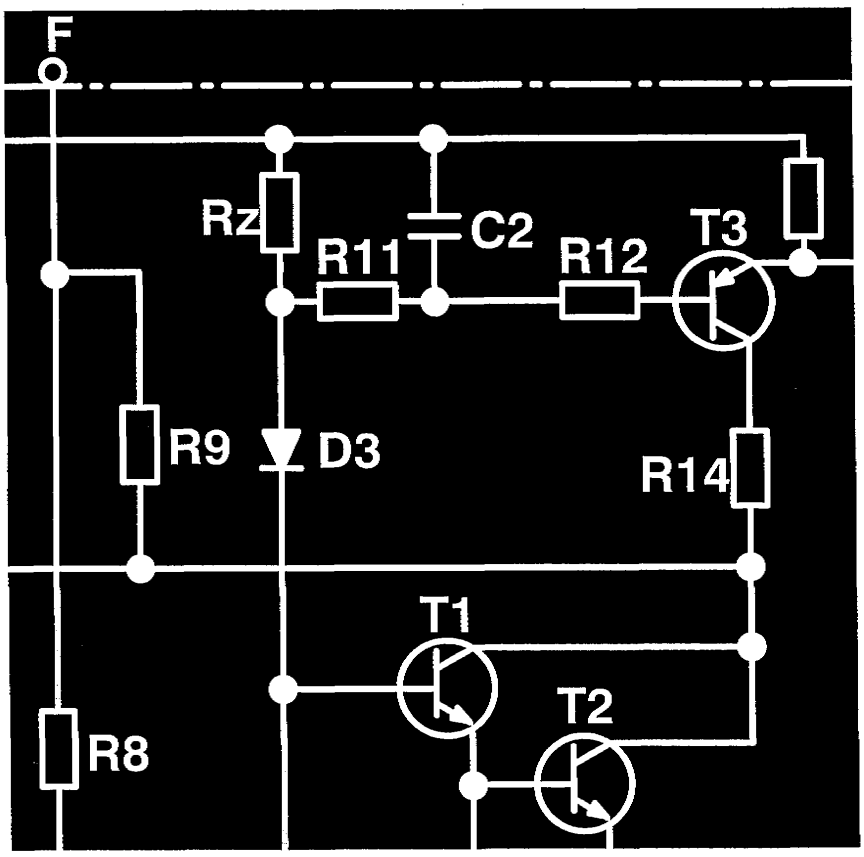


1996

BMW 318is/c, 320i, 325i/c, 328i/c M3 (E36)

Electrical Troubleshooting Manual

Vehicles Produced 9/95 to 8/96

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ELECTRICAL TROUBLESHOOTING MANUAL

3 SERIES – E36 (318is, 320i, 325i, 328i, M3, INCL. CONVERTIBLE)

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SEAT CUSHION TILT MOTOR, DRIVER'S, M50 ..... 5200.0-00
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SEAT HEATER SWITCH, PASSENGER'S SEAT, S54 ..... 5203.0-00
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SEAT HEATER, PASSENGER'S, E58 ..... 5203.0-00
SEAT HEIGHT MOTOR, PASSENGER'S, M59 ..... 5200.0-01
SEAT MOVEMENT MOTOR, DRIVER'S, M51 ..... 5200.0-00
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SEATBACK HEATER, DRIVER'S, E56 ..... 5203.0-00
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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TRUNK LID RELAY, K117 ..... 5126.0-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6312.0-04
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6313.0-02
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TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6322.0-00
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6325.0-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6581.2-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6312.0-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6314.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6313.0-02
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6322.0-00
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6325.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6581.2-04
TRUNK LIGHT SWITCH, S61y 6320.0-00
TRUNK LOCK MOTOR, M17 ..... 5126.2-01
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TURN LIGHT, LEFT REAR, H6 ..... 6313.0-02
TURN LIGHT, RIGHT FRONT, H4 ..... 6313.0-02
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VARIABLE CAMSHAFT CONTROL VALVE 1, Y5020 ..... 1210.14-04
VARIABLE CAMSHAFT CONTROL VALVE 1, Y6275 ..... 1210.17-05
VARIABLE CAMSHAFT CONTROL VALVE 2, Y5021 ..... 1210.14-04
VEHICLE SPEED SENSOR, B10 ..... 6211.0-04
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WINDOW MOTOR, LEFT REAR, M20 ..... 5133.1-05
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WINDOW MOTOR, PASSENGER'S, M23 ..... 5133.1-04
WINDOW MOTOR, RIGHT REAR, M22 ..... 5133.1-05
WINDOW MOTOR, RIGHT REAR, M99 ..... 5133.1-05
WINDOW SWITCH, LEFT REAR, S41 ..... 5133.1-02
WINDOW SWITCH, RIGHT REAR, S42 ..... 5133.1-02
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WINDSCREEN COWL PANEL LOCK MOTOR, M132 ..... 5430.1-00

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WIPER MOTOR, M3 ..... 6160.1-00
WIPER/WASHER MODULE (LOW II), A64 ..... 6160.1
WIPER/WASHER MODULE (WWM) 6160.1
WIPER/WASHER MODULE, A51 ..... 6160.1-01
WIPER/WASHER SWITCH, S5 ..... 6160.1-01
ZKE CENTRAL LOCKING (ZV) 5126.0

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Schematics

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

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

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead 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**.

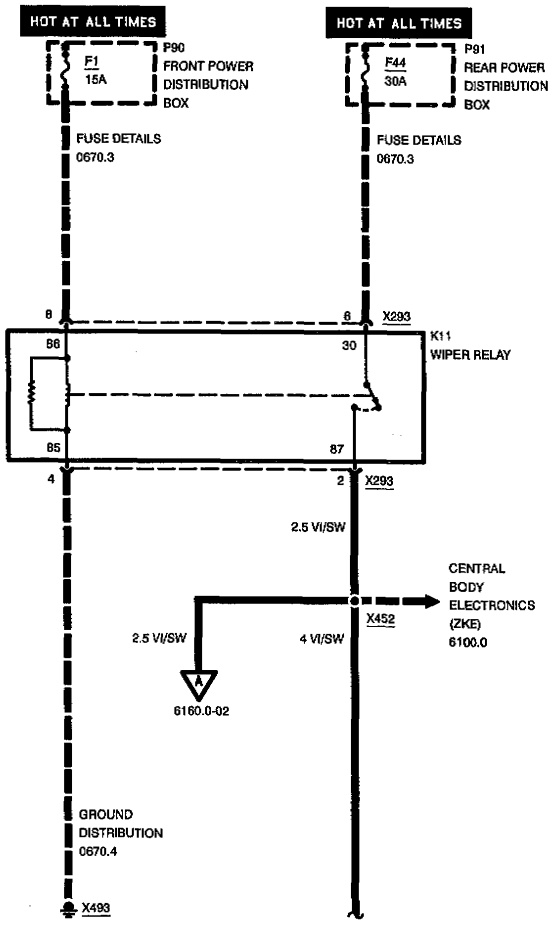
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

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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SYMBOLS


BATTERY


FUSE DETAILS


FUSIBLE LINK


THERMO SWITCH

SOLENOID


SOLENOID CONTROLLED VALVE OR CLUTCH SOLENOID


HEATING ELEMENT

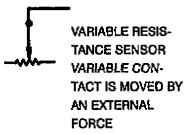

LOUDSPEAKER OR HORN

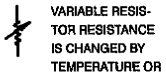

LIGHT

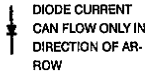

PERMANENT MAGNET MOTOR ONE SPEED

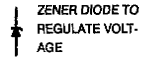

PERMANENT MAGNET MOTOR TWO SPEEDS

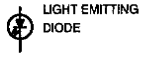

KNOCK SENSOR

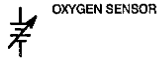

VARIABLE RESISTANCE SENSOR VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE

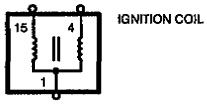

VARIABLE RESISTOR RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE


DIODE CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW


ZENER DIODE TO REGULATE VOLTAGE


LIGHT EMITTING DIODE


OXYGEN SENSOR

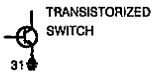


IGNITION COIL

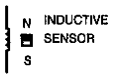

CONTROL/POWER ELECTRONICS


HALL EFFECT SENSOR


RADIO



TRANSISTORIZED SWITCH



INDUCTIVE SENSOR



VEHICLE SPEED SENSOR

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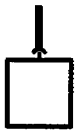
SYMBOLS

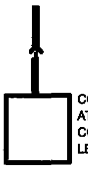

ENTIRE COMPONENT SHOWN

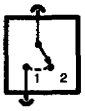

PART OF COMPONENT SHOWN


COMPONENT WITH SCREW TERMINALS

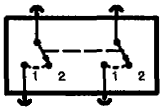

COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)


CONNECTOR ATTACHED TO COMPONENT


CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



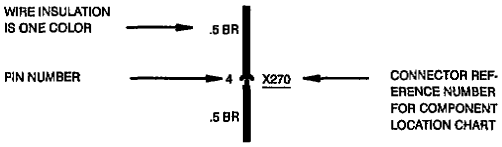
ONE POLE, TWO POSITION SWITCH

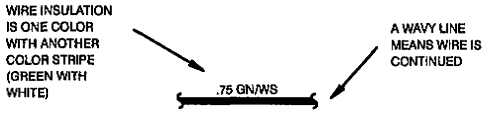


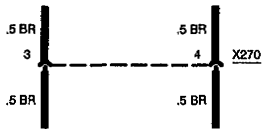
SWITCHES THAT MOVE TOGETHER

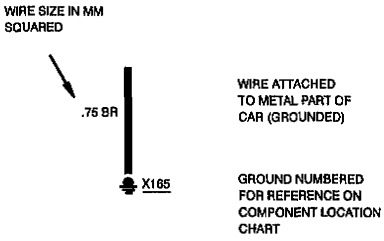
DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

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



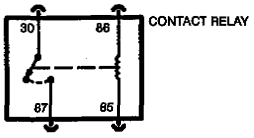




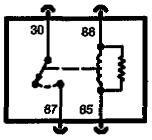


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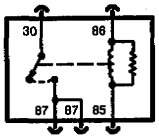
SYMBOLS



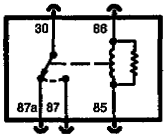
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

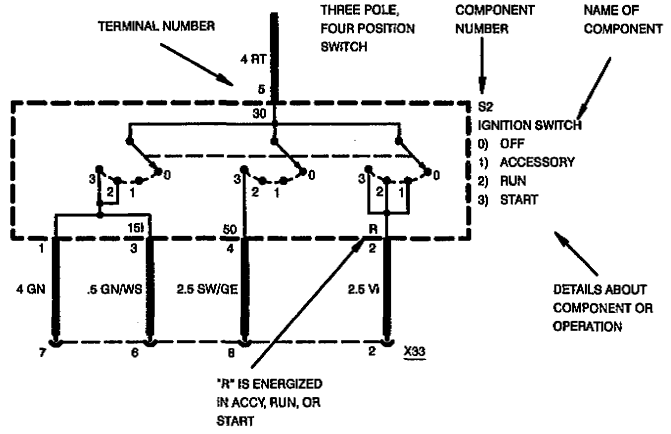


CONTACT RELAY *WITH TWO OUTPUTS*

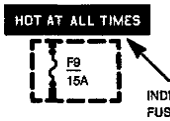


CHANGEOVER *RELAY WITH TWO* OUTPUTS

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



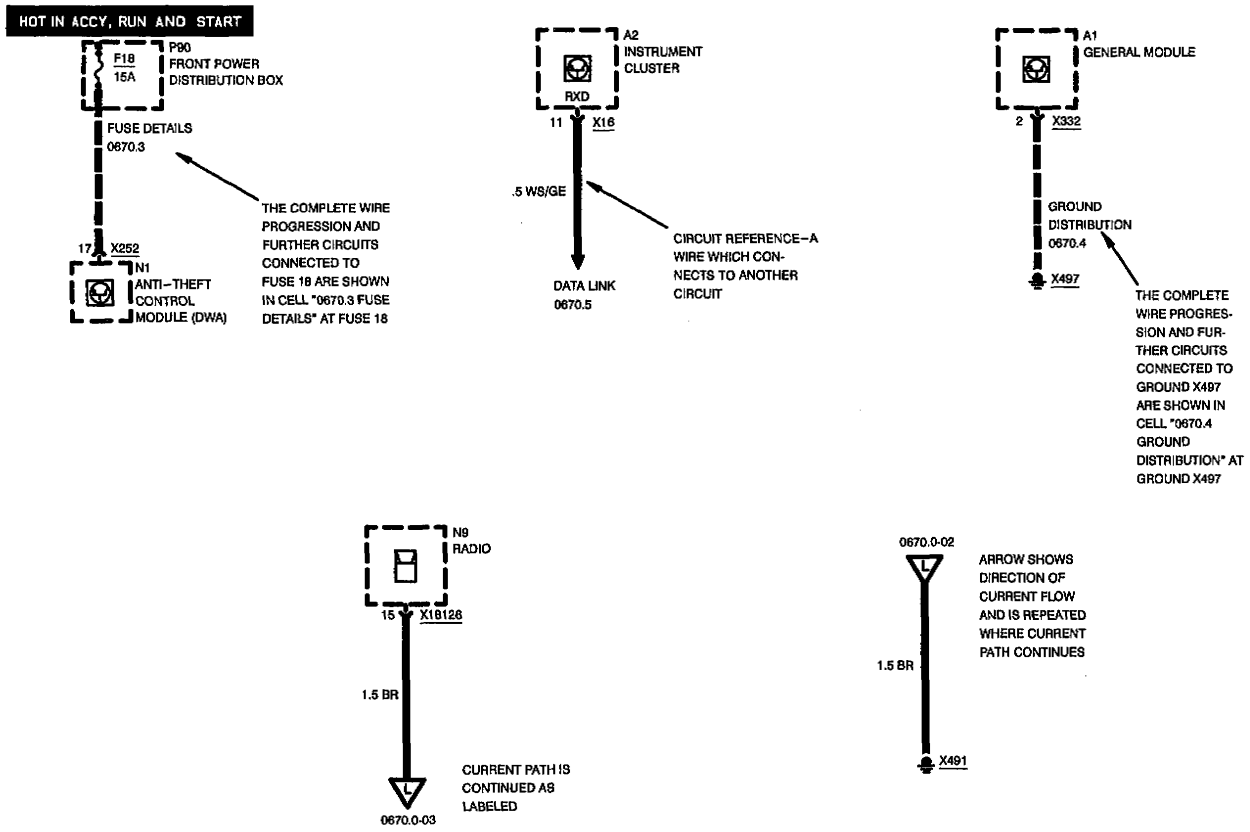
TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND



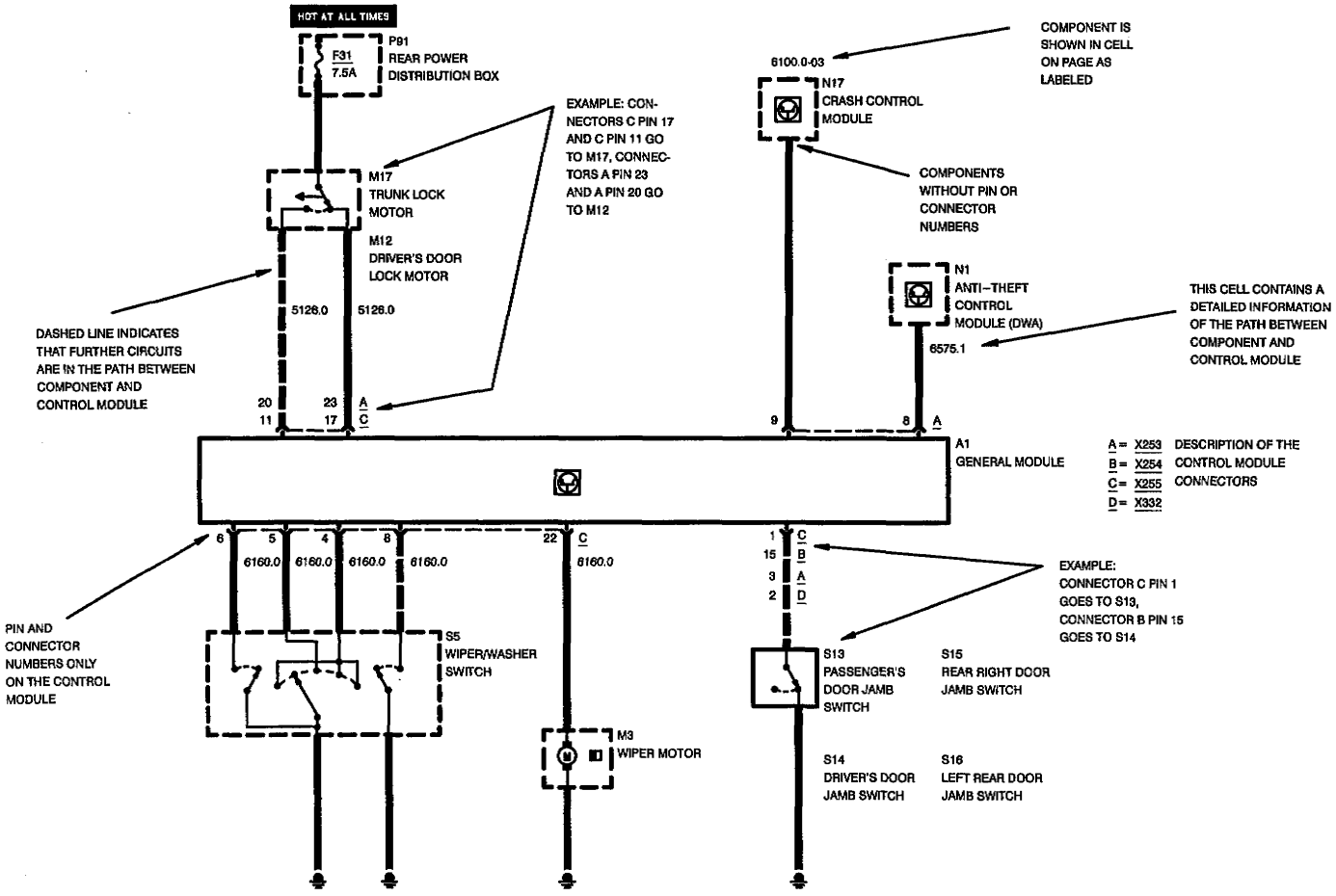
POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

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SYMBOLS



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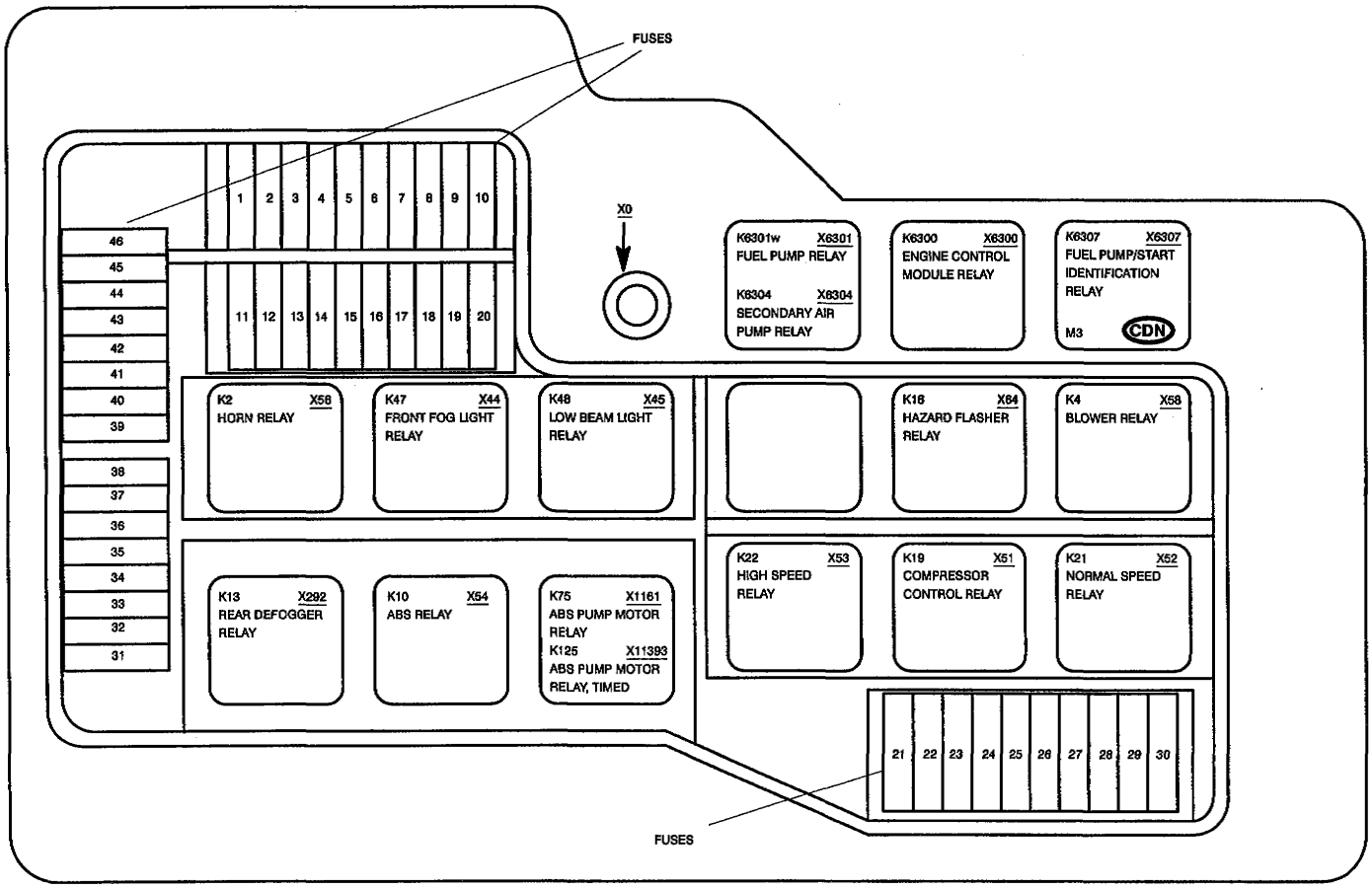


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POWER DISTRIBUTION CHART

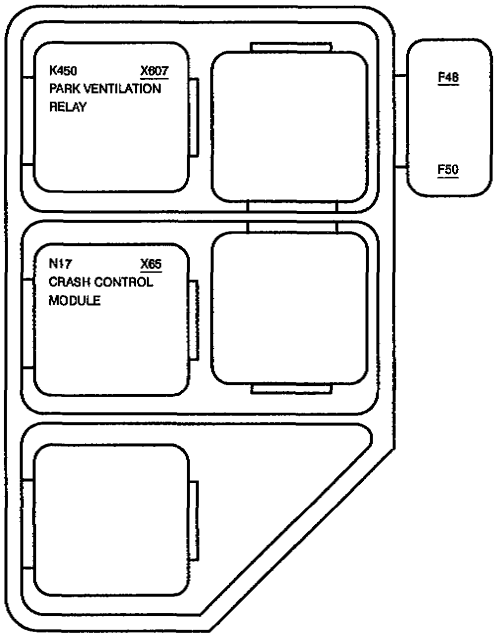
FRONT POWER DISTRIBUTION BOX



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POWER DISTRIBUTION CHART

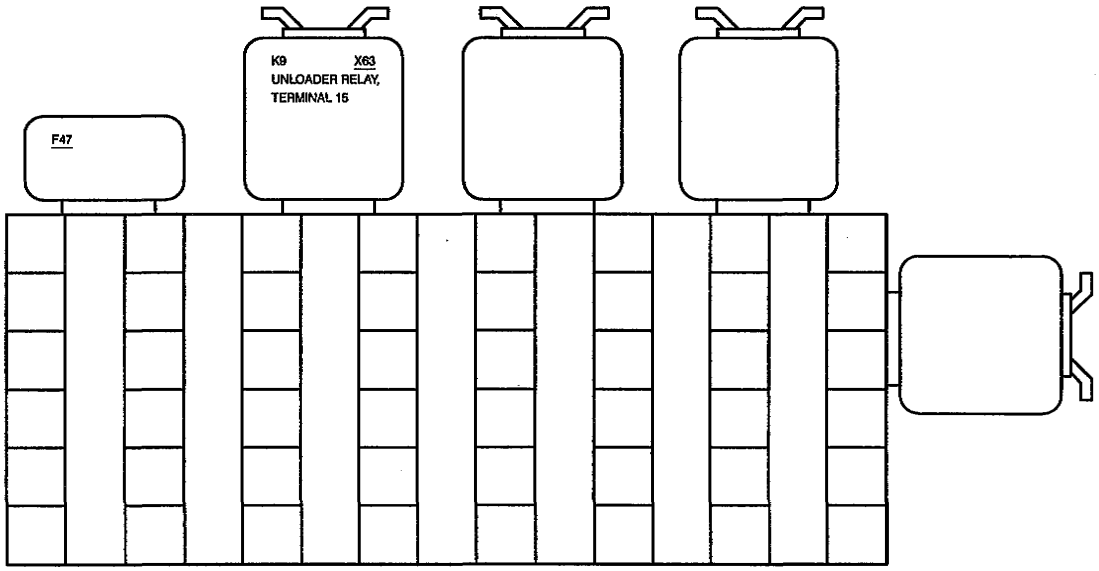
RELAY PANEL UNDER LH SIDE OF DASHBOARD



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POWER DISTRIBUTION CHART

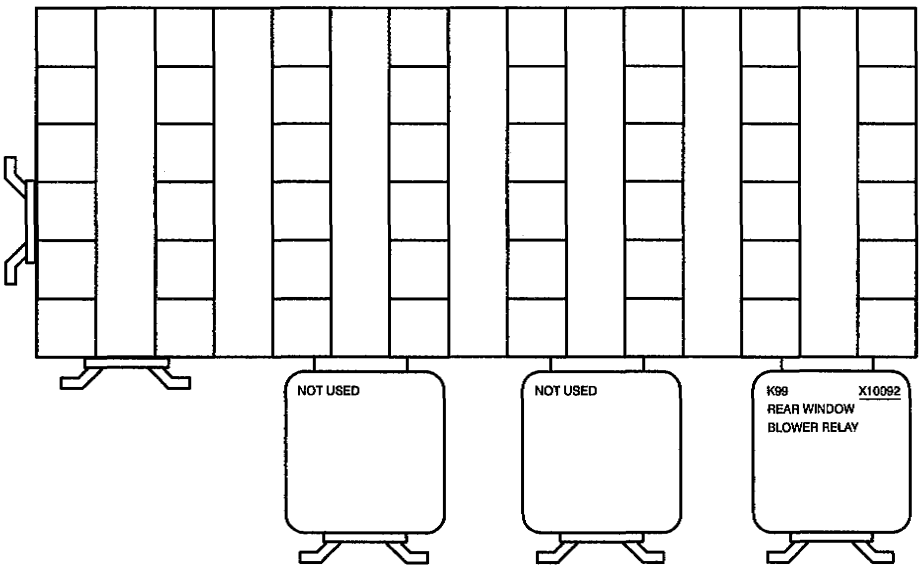
SPLICE PANEL UNDER LH SIDE OF DASHBOARD



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POWER DISTRIBUTION CHART

SPLICE PANEL UNDER RH SIDE OF DASHBOARD



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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
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1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)																●		●										●	
1210.10	ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)																●		●										●	
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)																●		●										●	
1210.14	ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)																●		●											
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 310R)																										●		●	
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																								●					
5126.0	ZKE CENTRAL LOCKING (ZV)							●																			●		●	
5133.1	POWER WINDOWS (FH)														●					●										
5200.0	POWER SEATS					●																								
5203.0	HEATED SEATS				●																			●						
5410.1	POWER SUN ROOF (SHD)	●																												
5430.1	ELECTRICAL CONVERTIBLE TOP							●																				●		

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6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)							●							●															
6133.0	HORN								●																					
6135.0	DRIVE–AWAY PROTECTION (EWS II)																												●	
6160.1	WIPER/WASHER MODULE (WWM)			●																										
6167.1	HEADLIGHT WASHER (SRA)			●																										
6211.0	INSTRUMENT CLUSTER																							●				●		
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																													
6412.5	PARK VENTILATION WITH IHKR																				●									
6424.0	REAR WINDOW DEFOGGER/ANTENNA						●																	●						

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6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)																●				●			●						
6450.7	INTEGRATED CLIMATE REGULATION (IHKA E36)																●				●			●						
6510.0	RADIO/CD PLAYER (PROVISIONS)									●																				
6510.1	RADIO/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 48

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1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)																			
1210.14	ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)										●									
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 310R)																	●		
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																			
5126.0	ZKE CENTRAL LOCKING (ZV)						●													
5133.1	POWER WINDOWS (FH)																			
5200.0	POWER SEATS											●								
5203.0	HEATED SEATS																			
5410.1	POWER SUN ROOF (SHD)																			
5430.1	ELECTRICAL CONVERTIBLE TOP						●							●	●					

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6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)				●		●								●					
6133.0	HORN																			
6135.0	DRIVE–AWAY PROTECTION (EWS II)		●															●		
6160.1	WIPER/WASHER MODULE (WWM)							●	●							●				
6167.1	HEADLIGHT WASHER (SRA)							●								●				
6211.0	INSTRUMENT CLUSTER		●															●		
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					●														
6412.5	PARK VENTILATION WITH IHKR																			
6424.0	REAR WINDOW DEFOGGER/ANTENNA																			

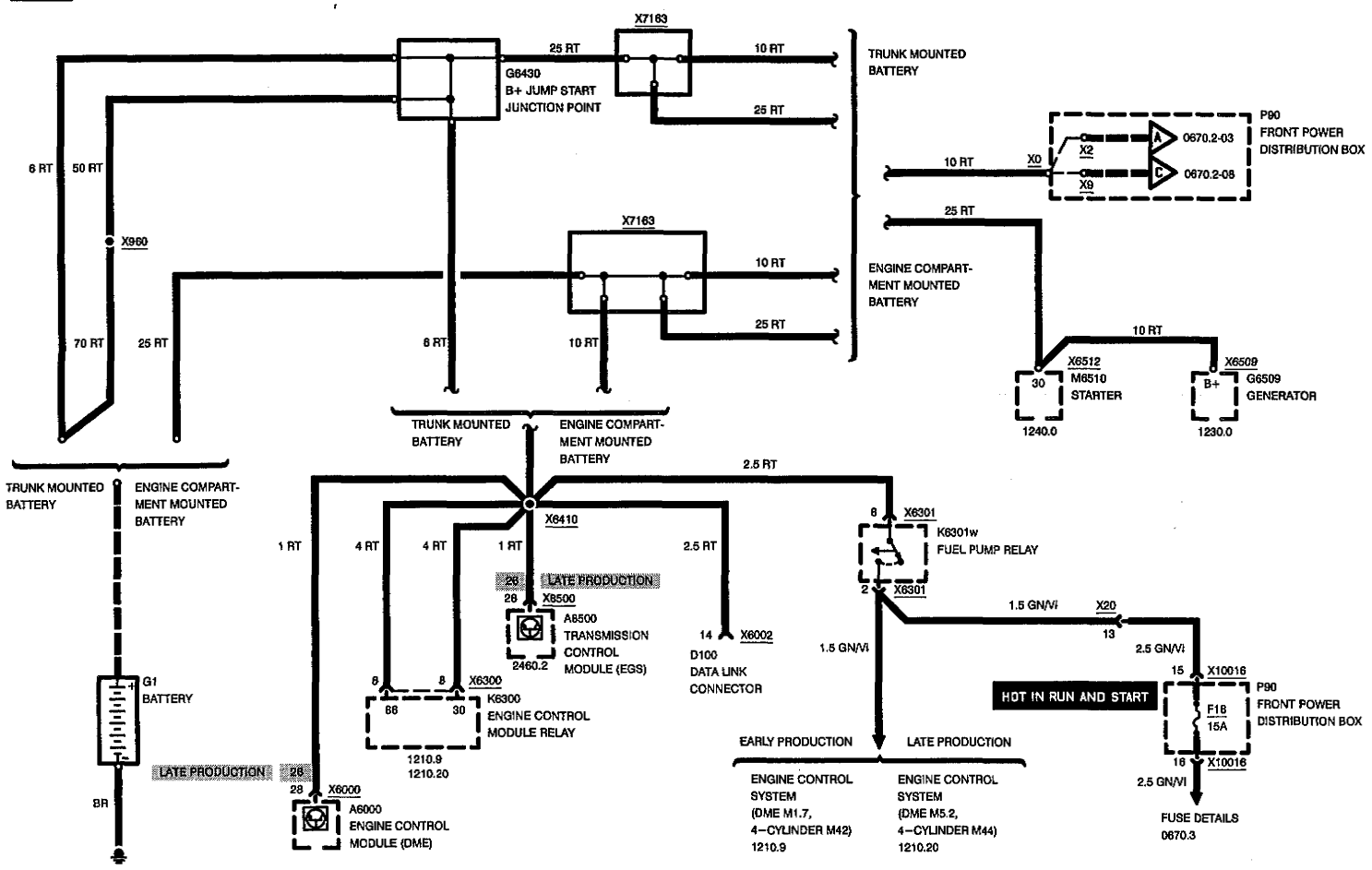
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6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)		●						●		●		●							●
6450.7	INTEGRATED CLIMATE REGULATION (IHKA E36)		●								●		●							●
6510.0	RADIO/CD PLAYER (PROVISIONS)															●				
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●										●					
6571.0	CRUISE CONTROL (TEMPOMAT)																	●		
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6581.2	ON–BOARD COMPUTER (BC V)		●		●				●								●			

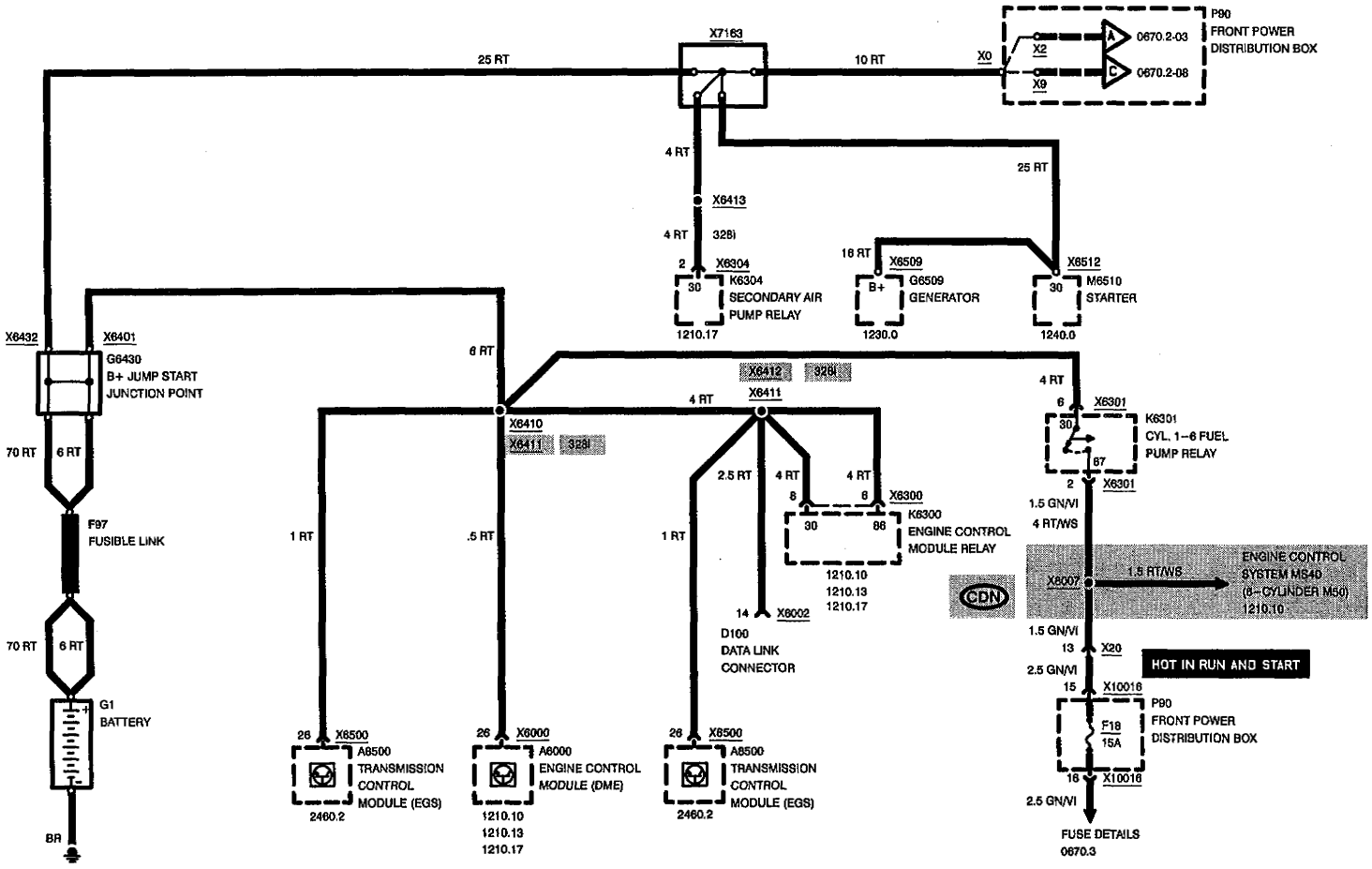
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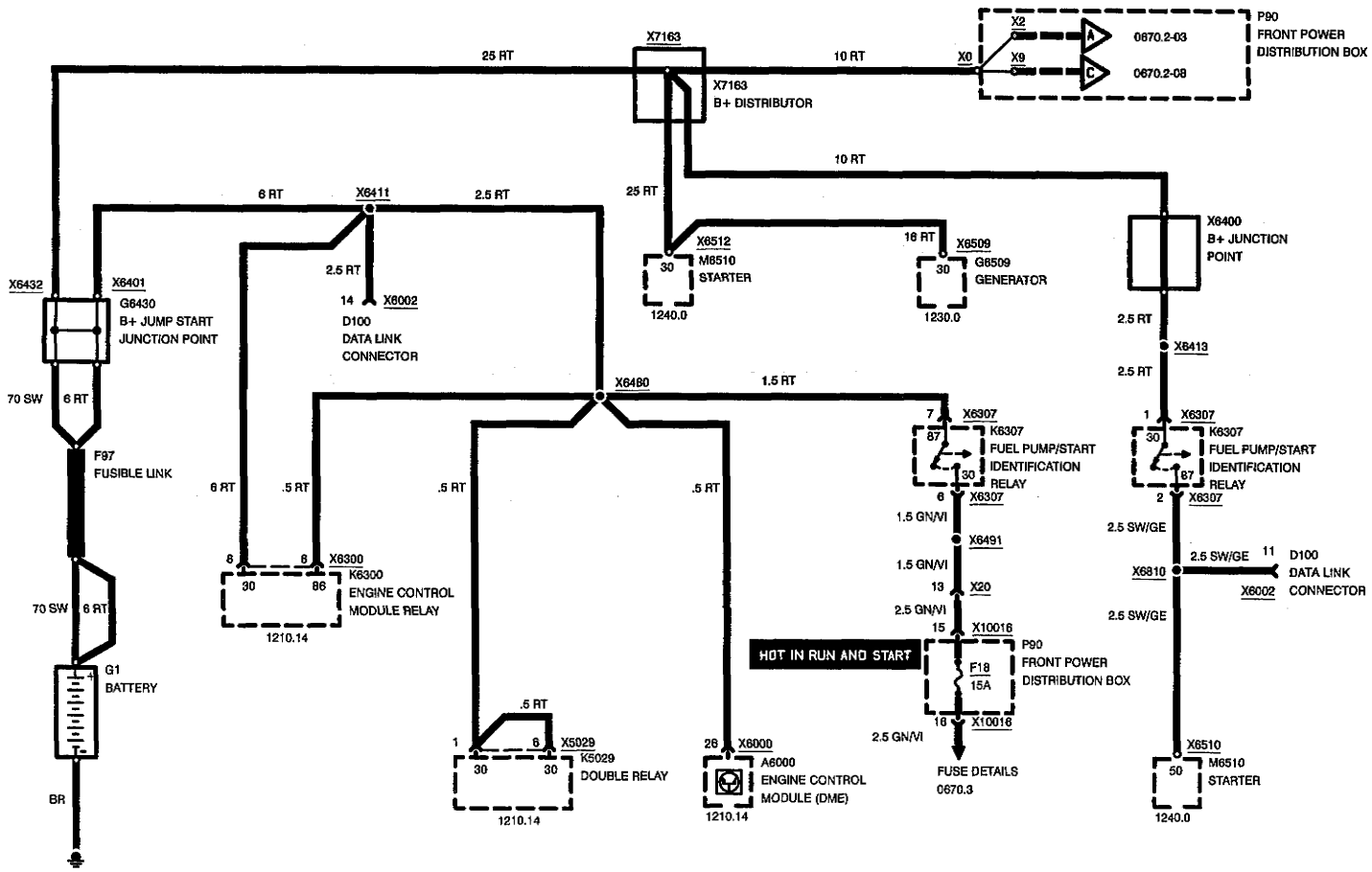
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320i (CDN), 325i, 328i

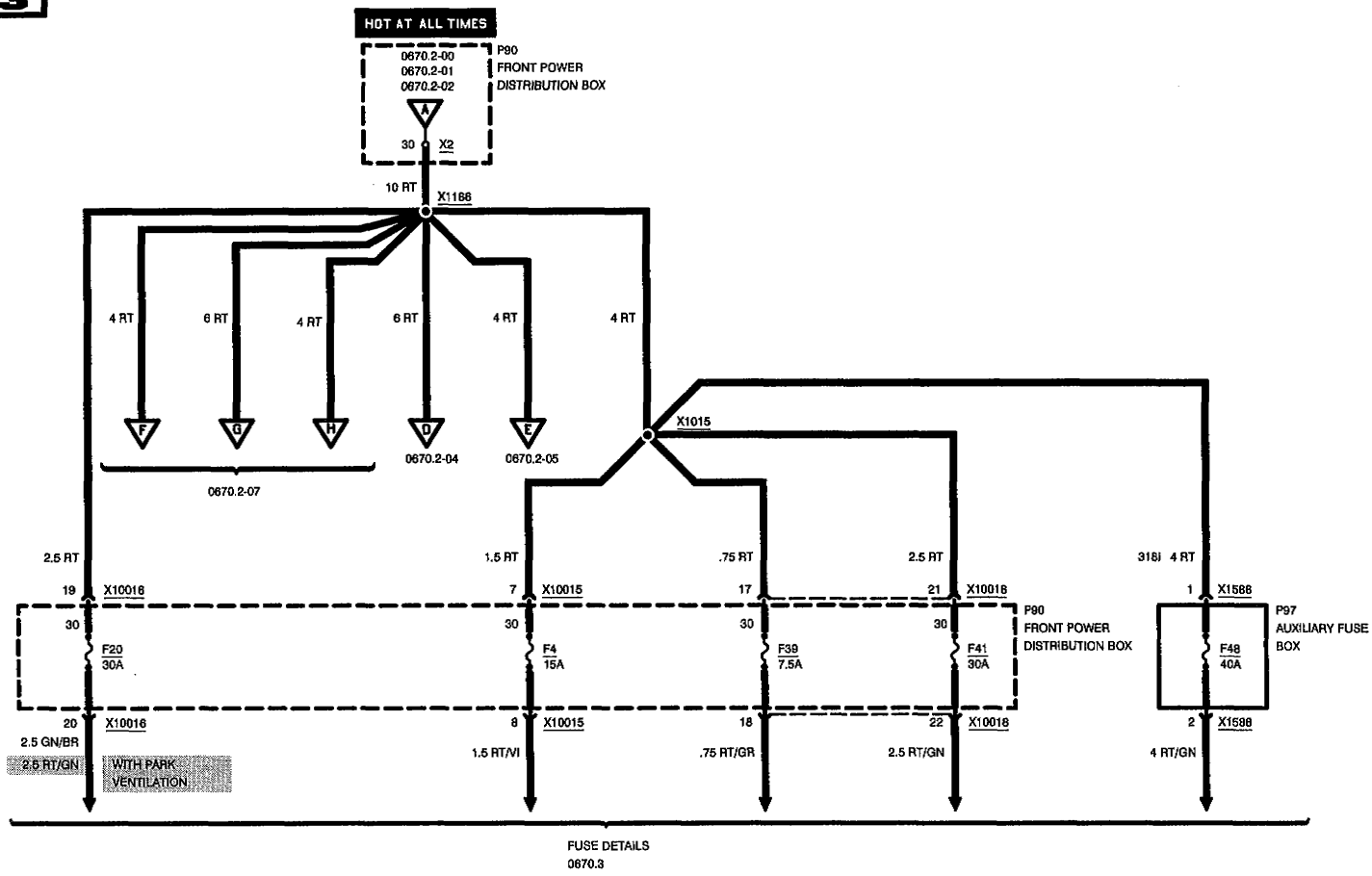


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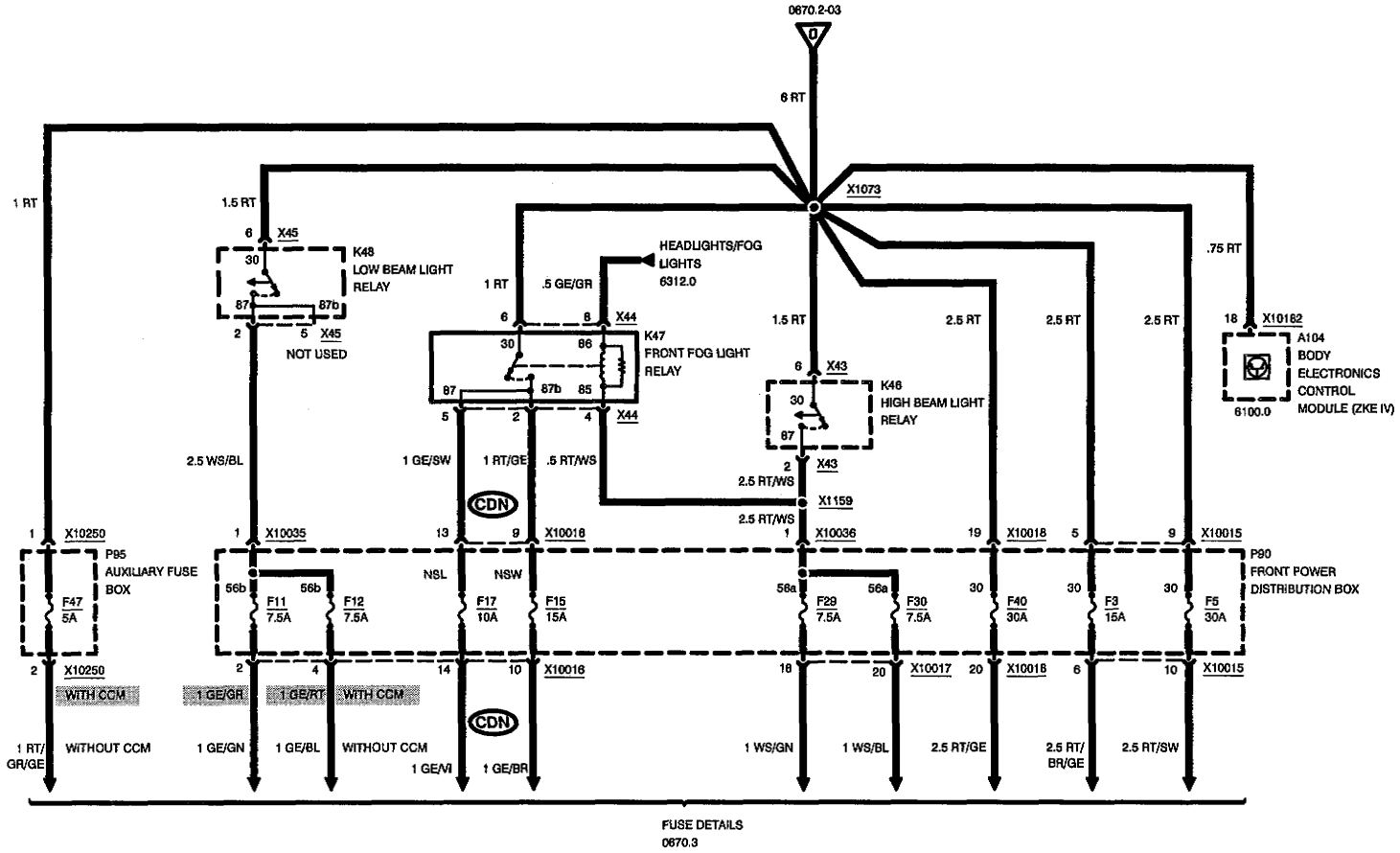


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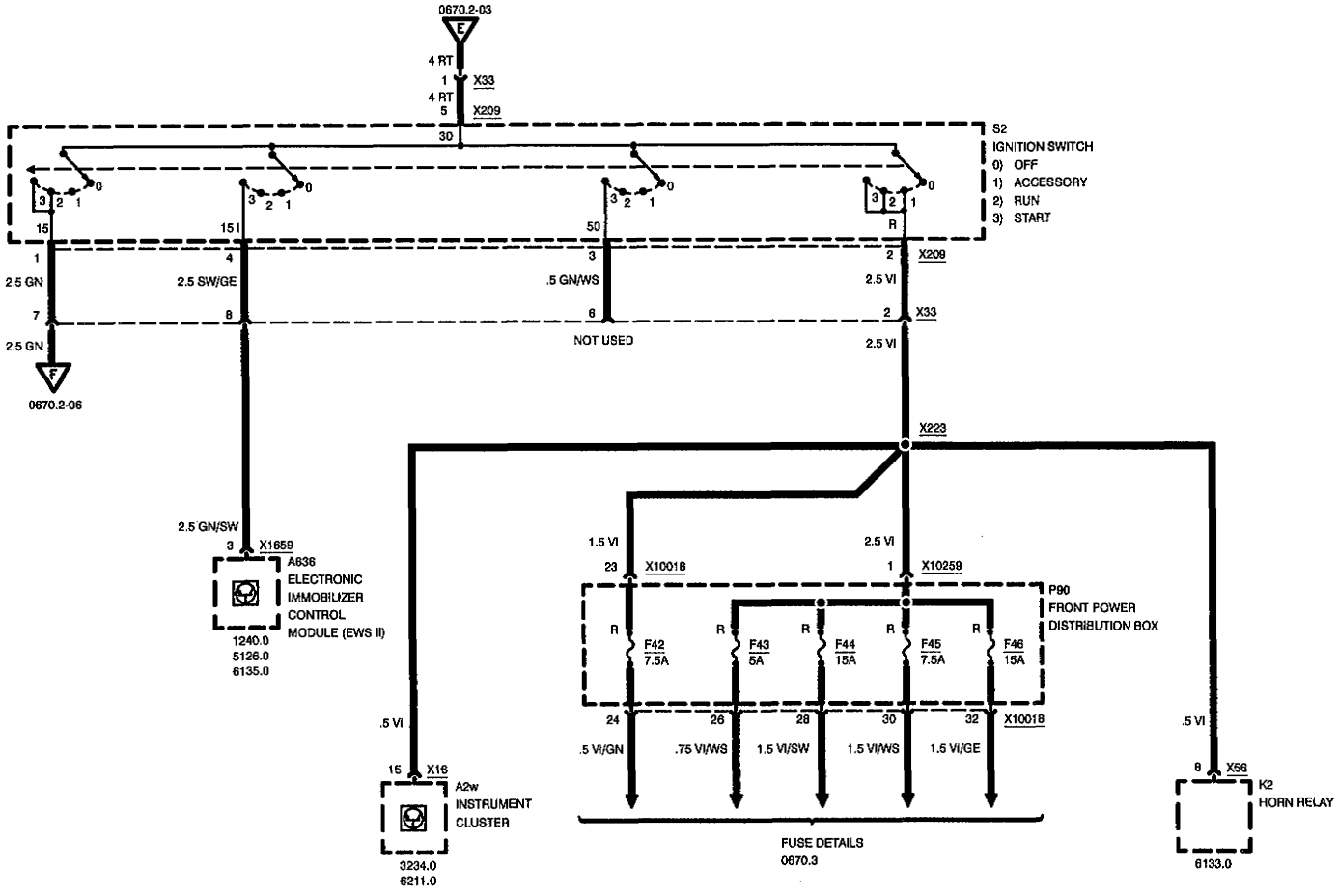


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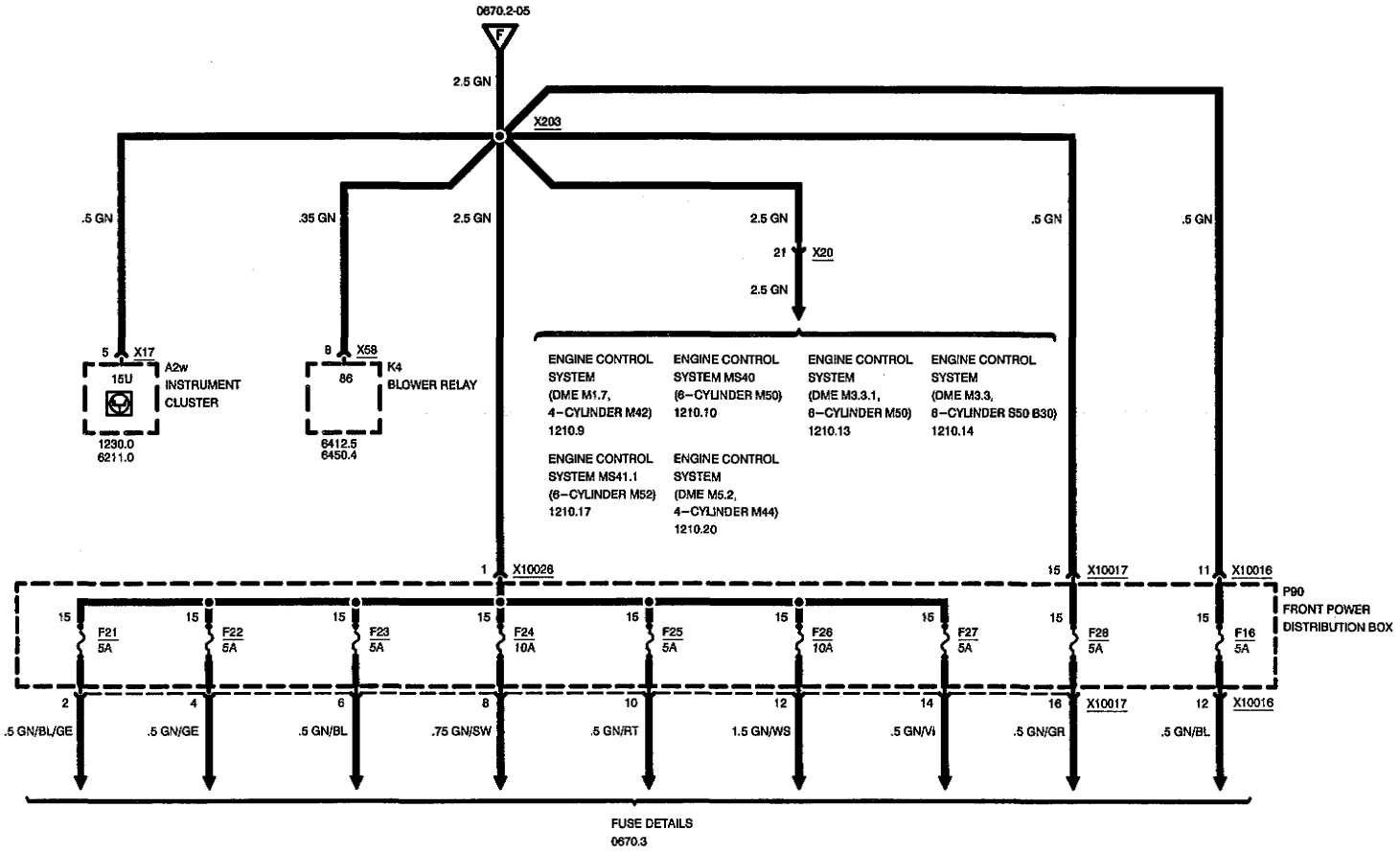
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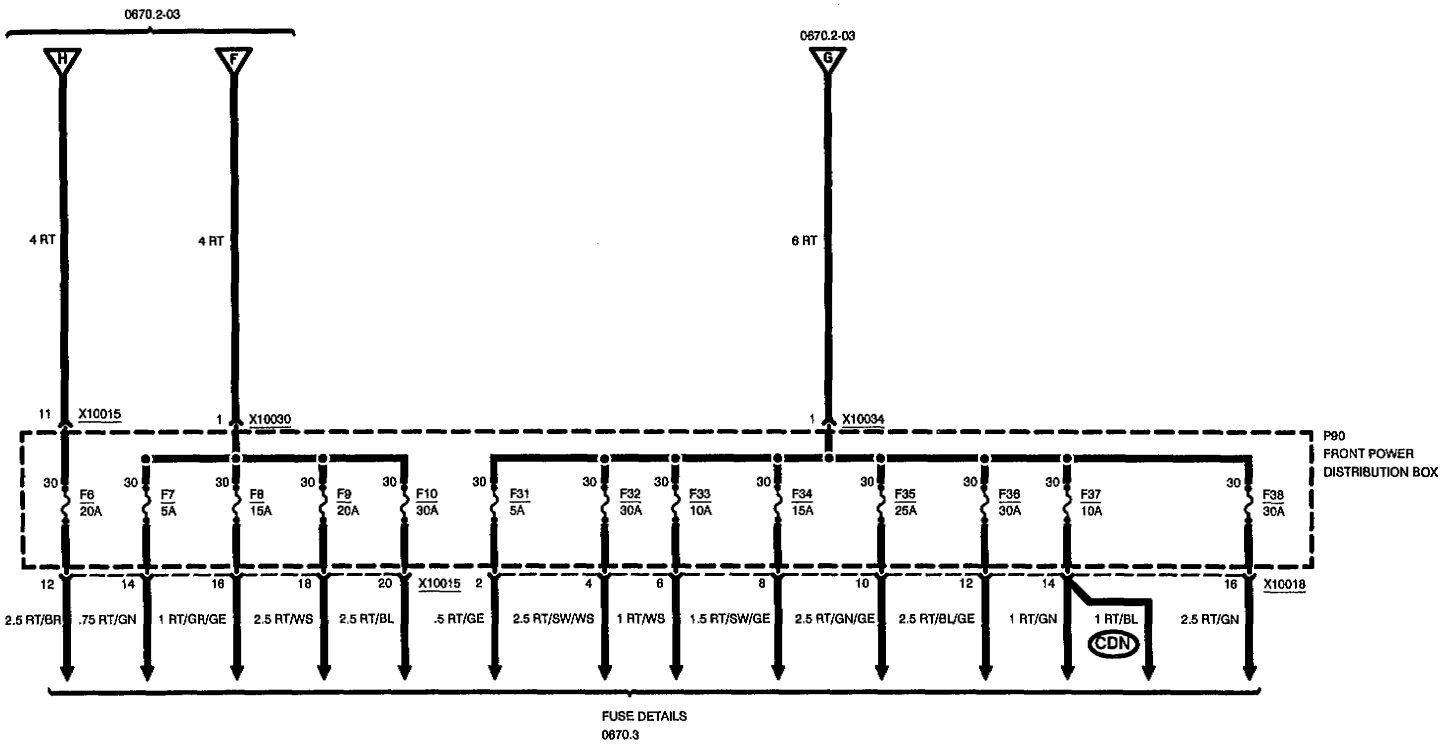


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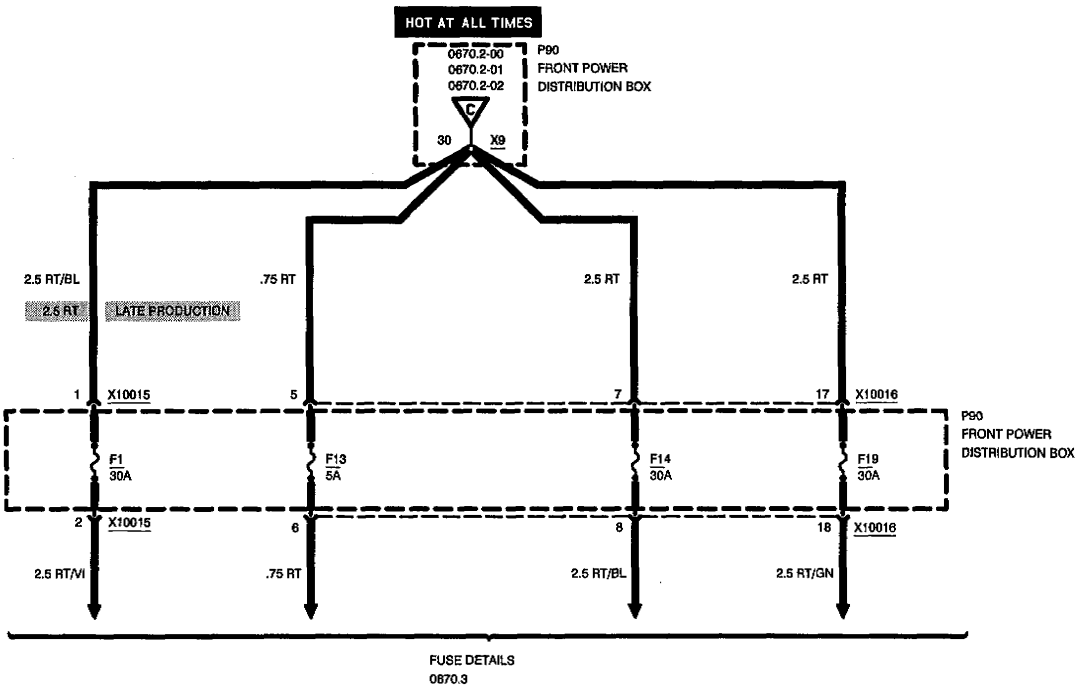
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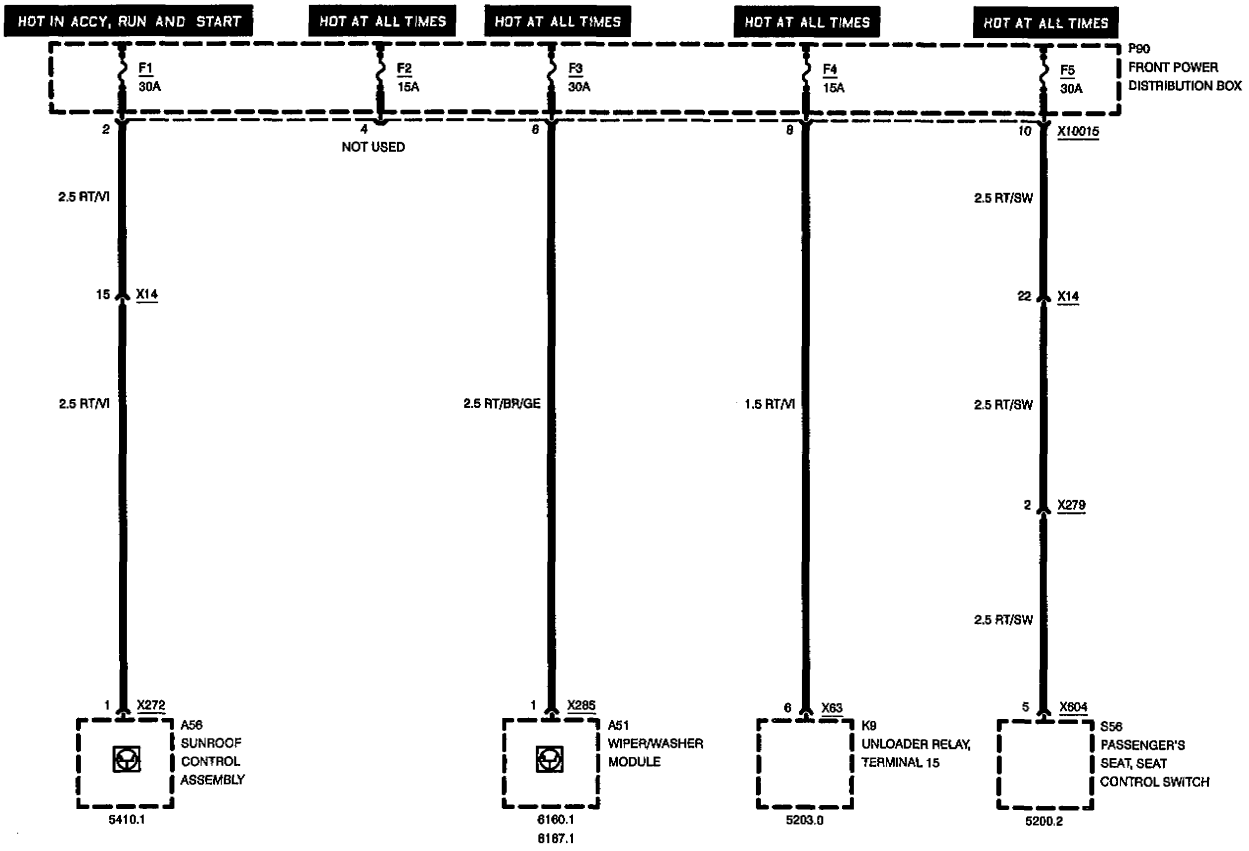


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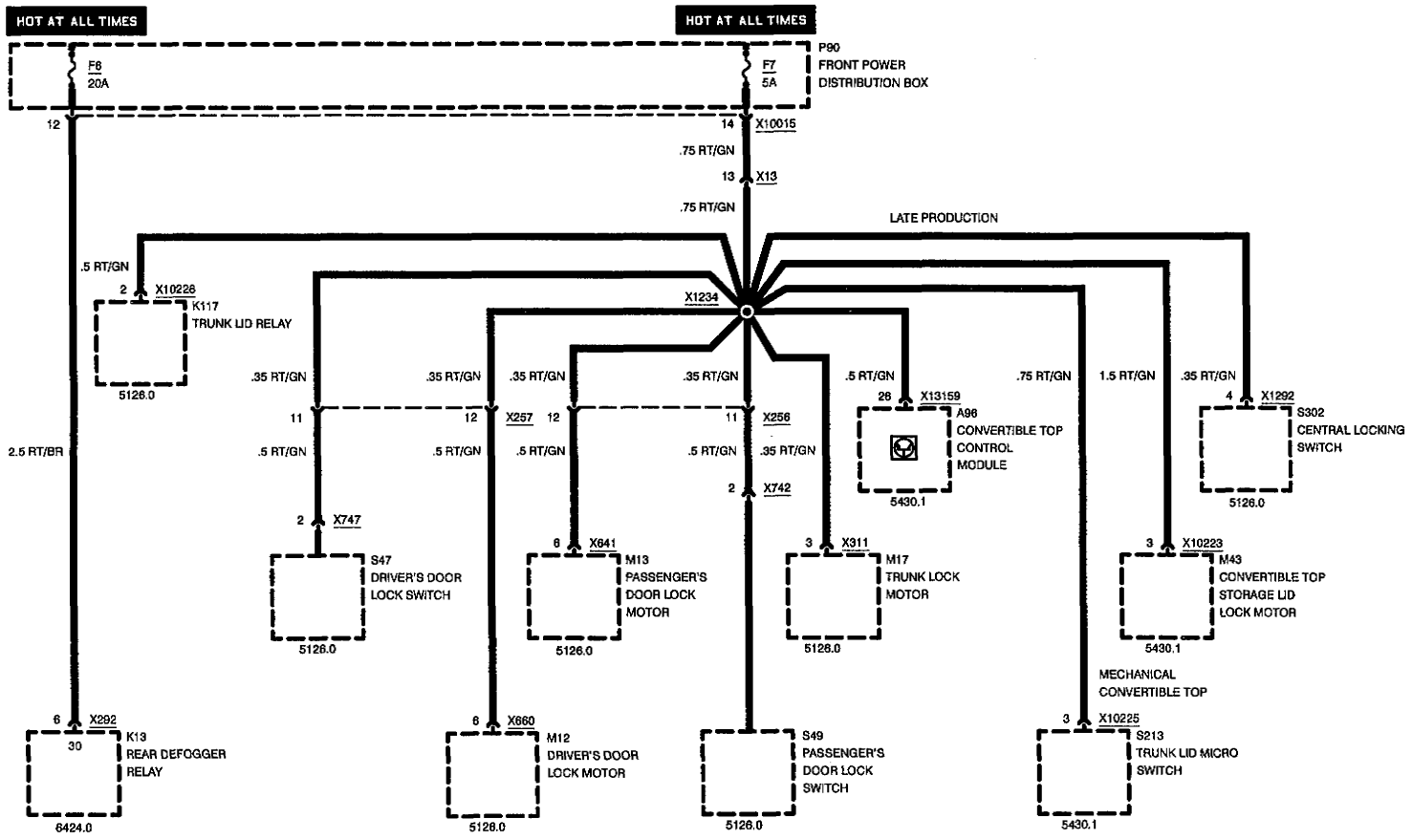
FUSES 1, 2, 3, 4, AND 5



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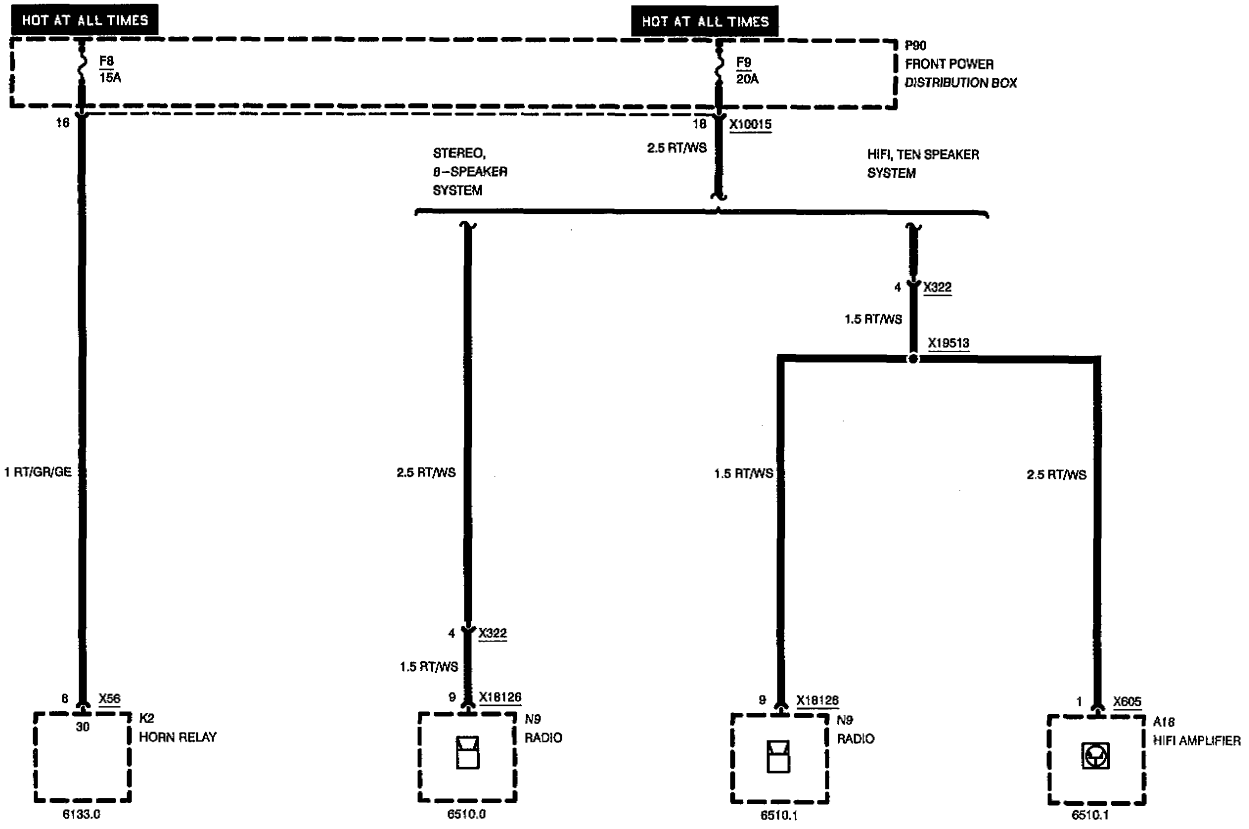
FUSES 6 AND 7



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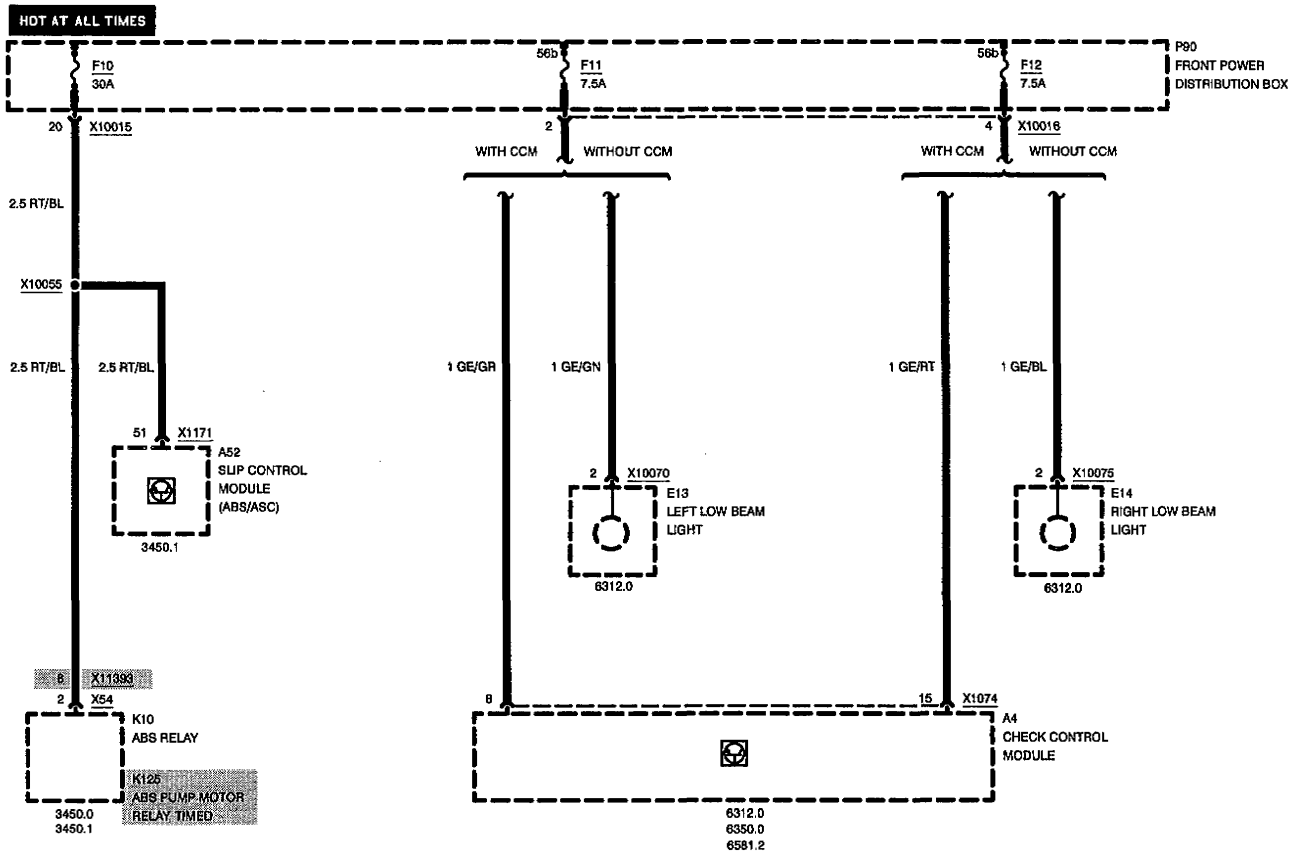
FUSES 8 AND 9



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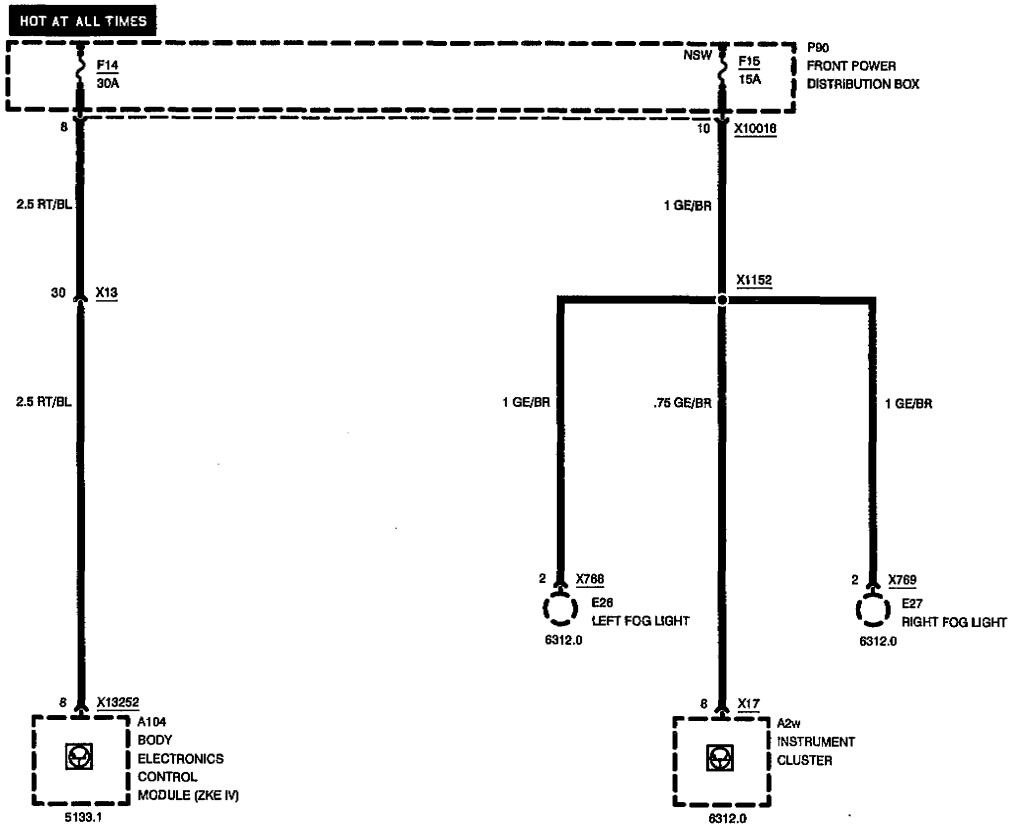
FUSES 10, 11, AND 12



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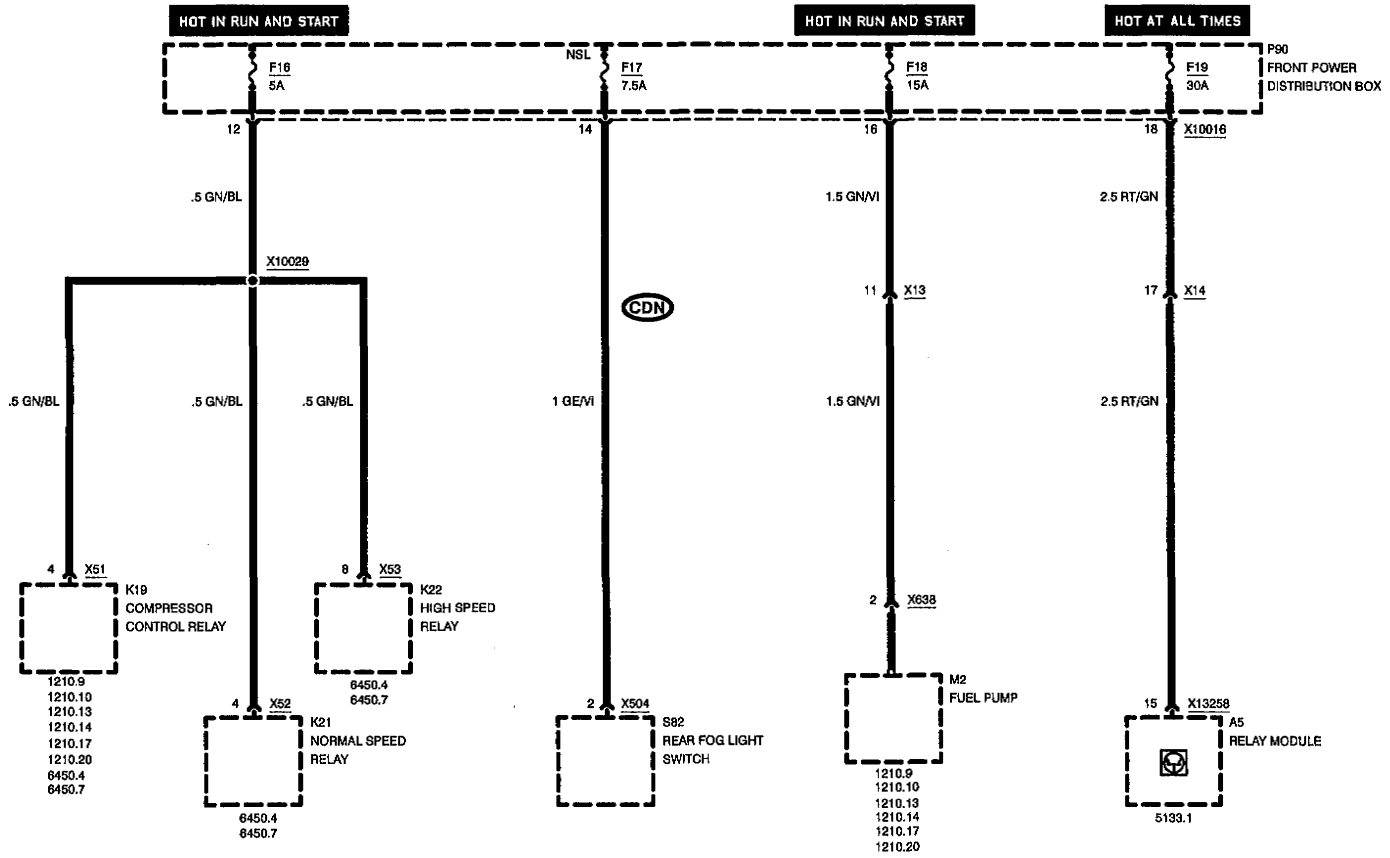
FUSES 14 AND 15



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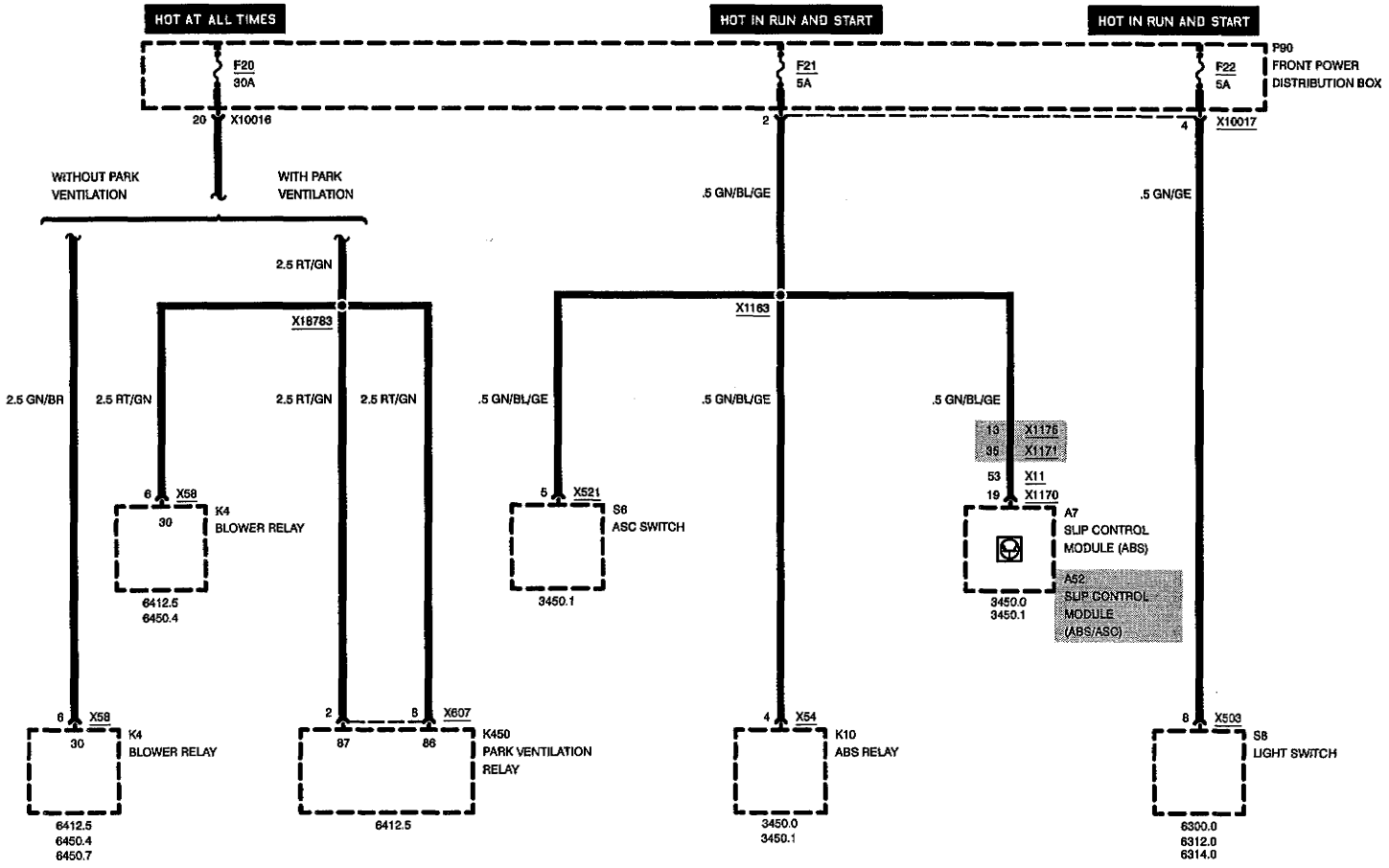
FUSES 16, 17, 18, AND 19



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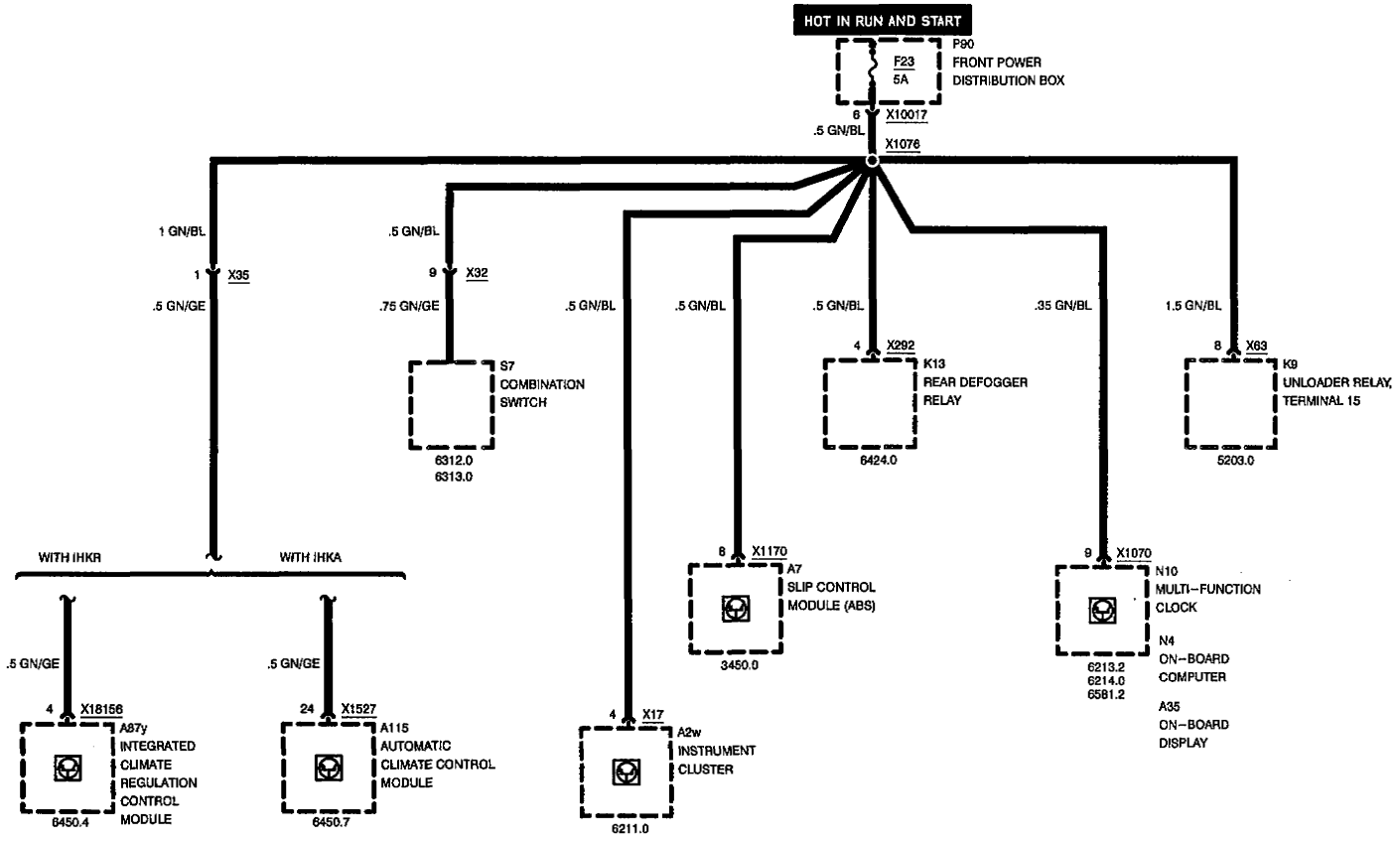
FUSES 20, 21, AND 22



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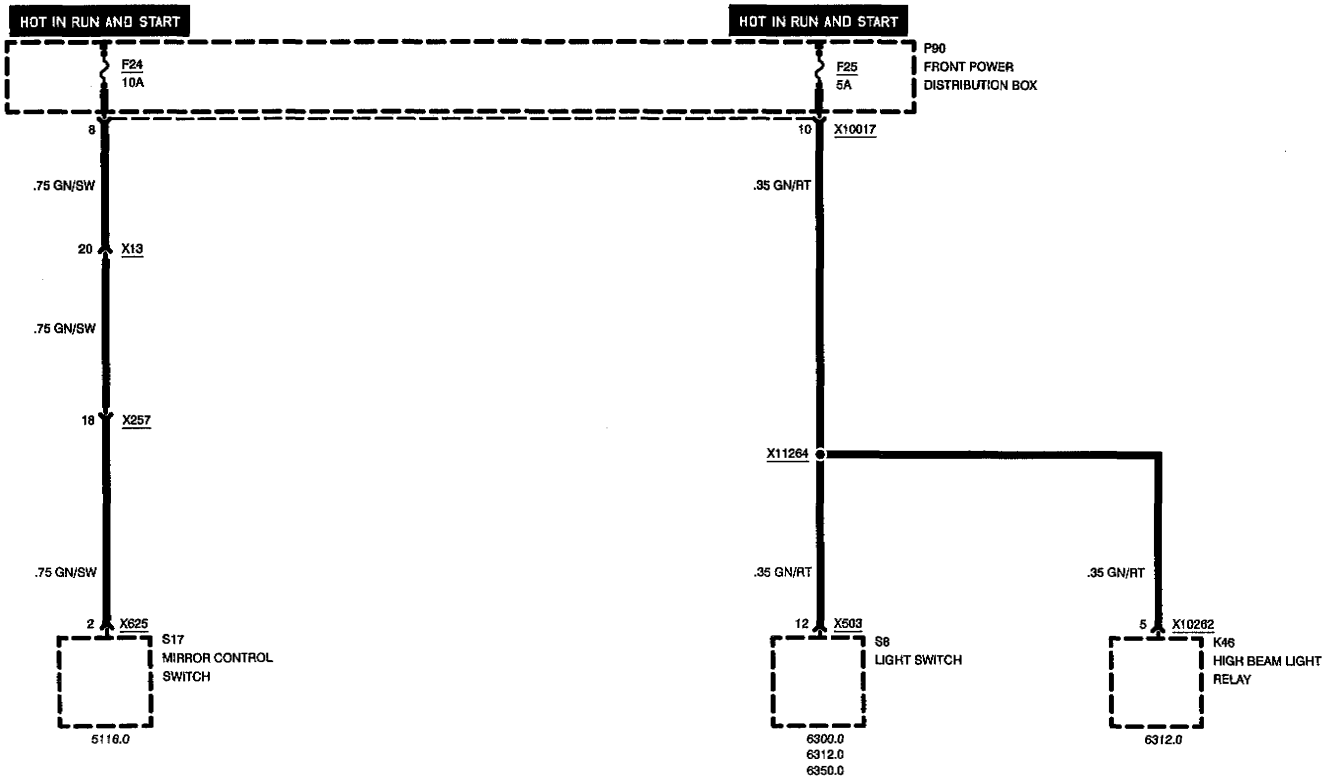
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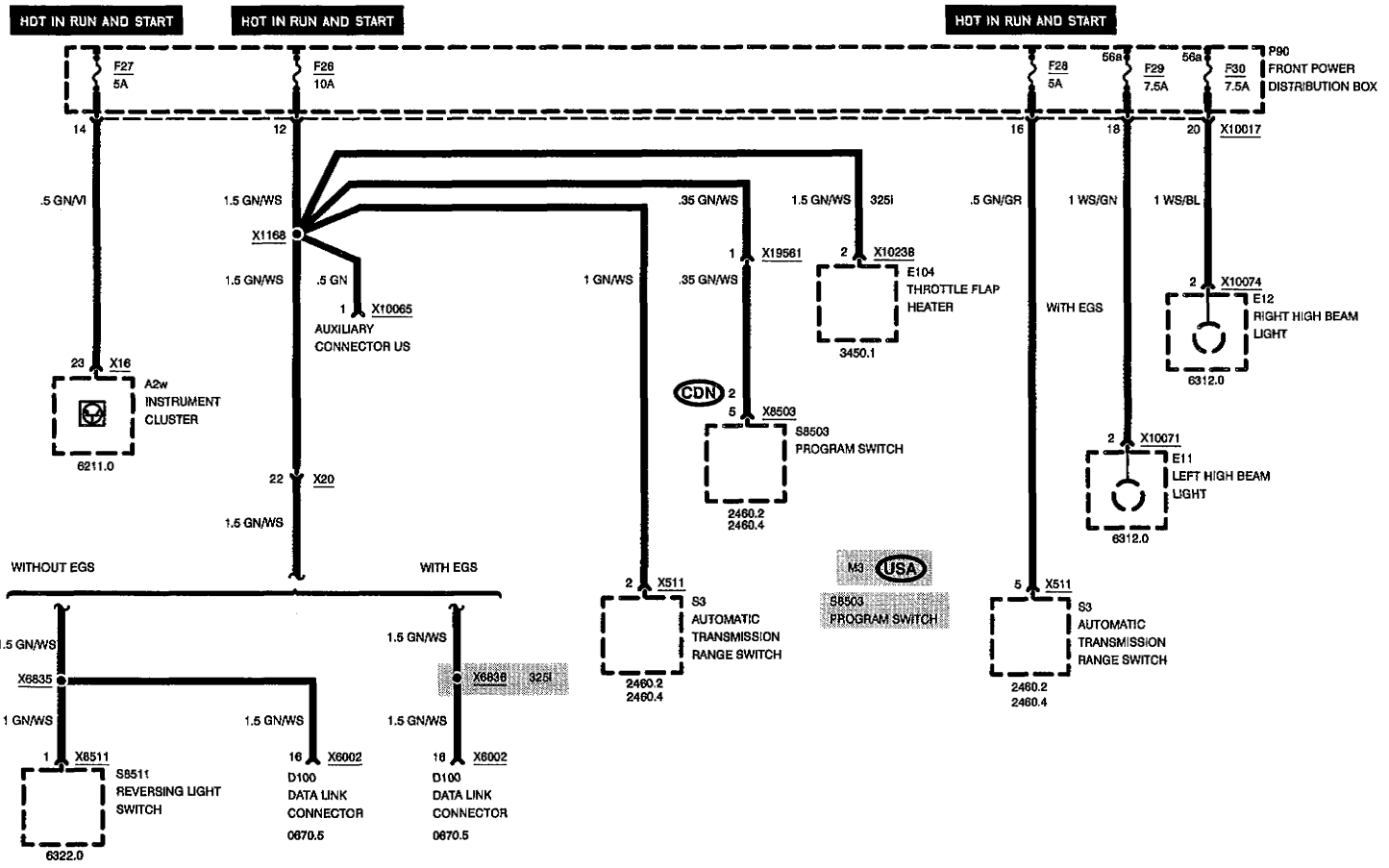
FUSES 24 AND 25



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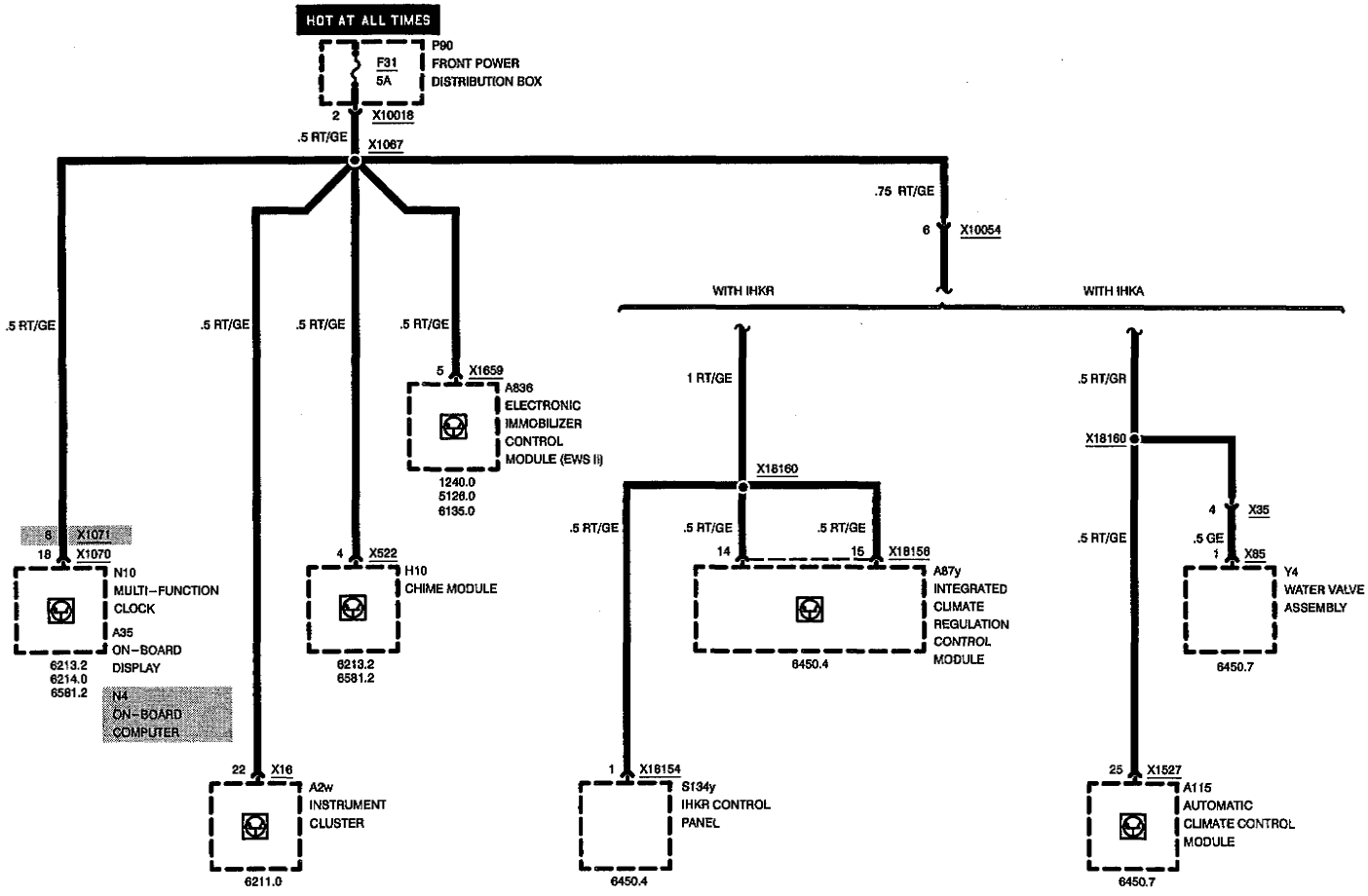
FUSES 26, 27, 28, 29, AND 30



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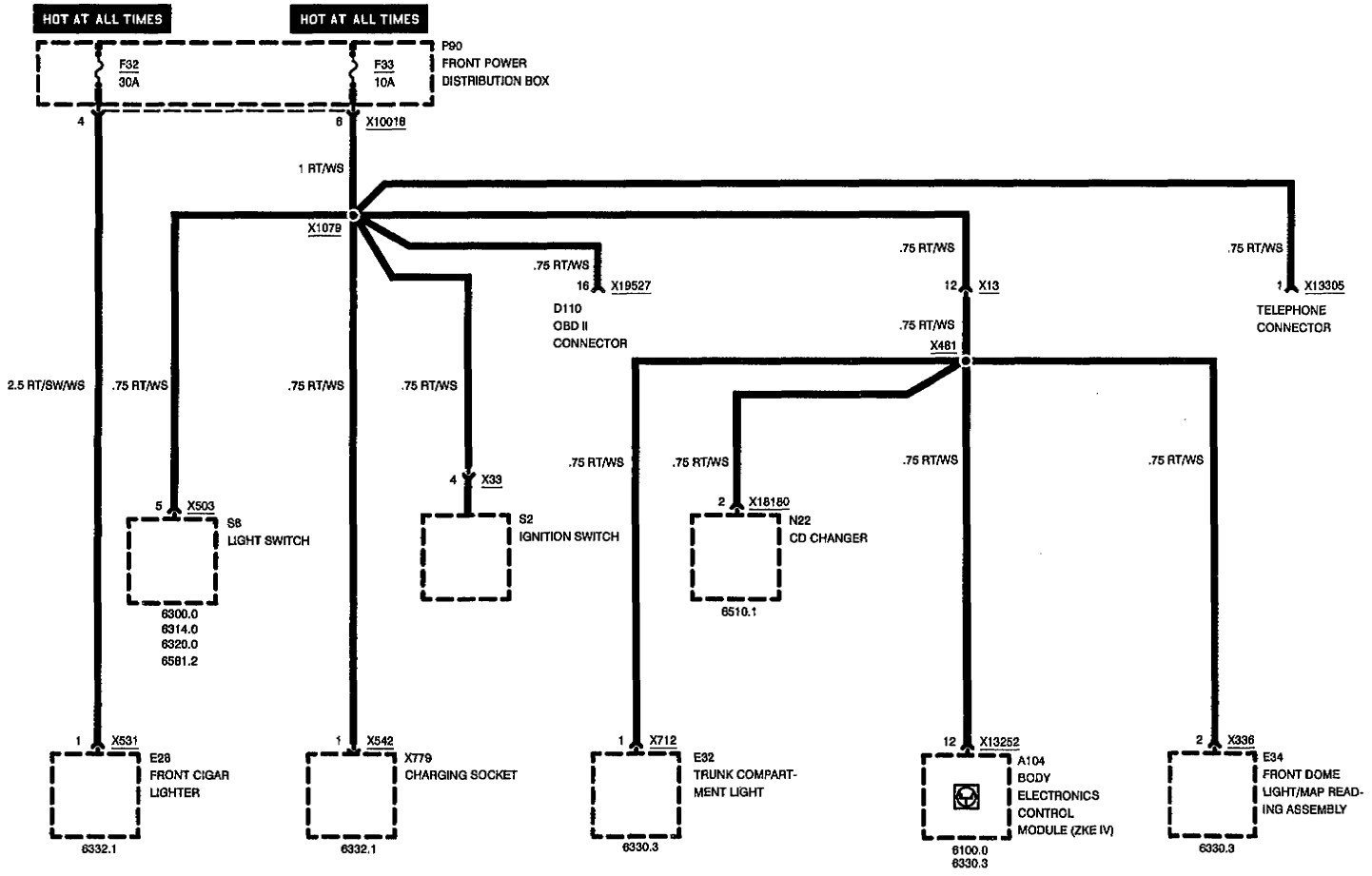
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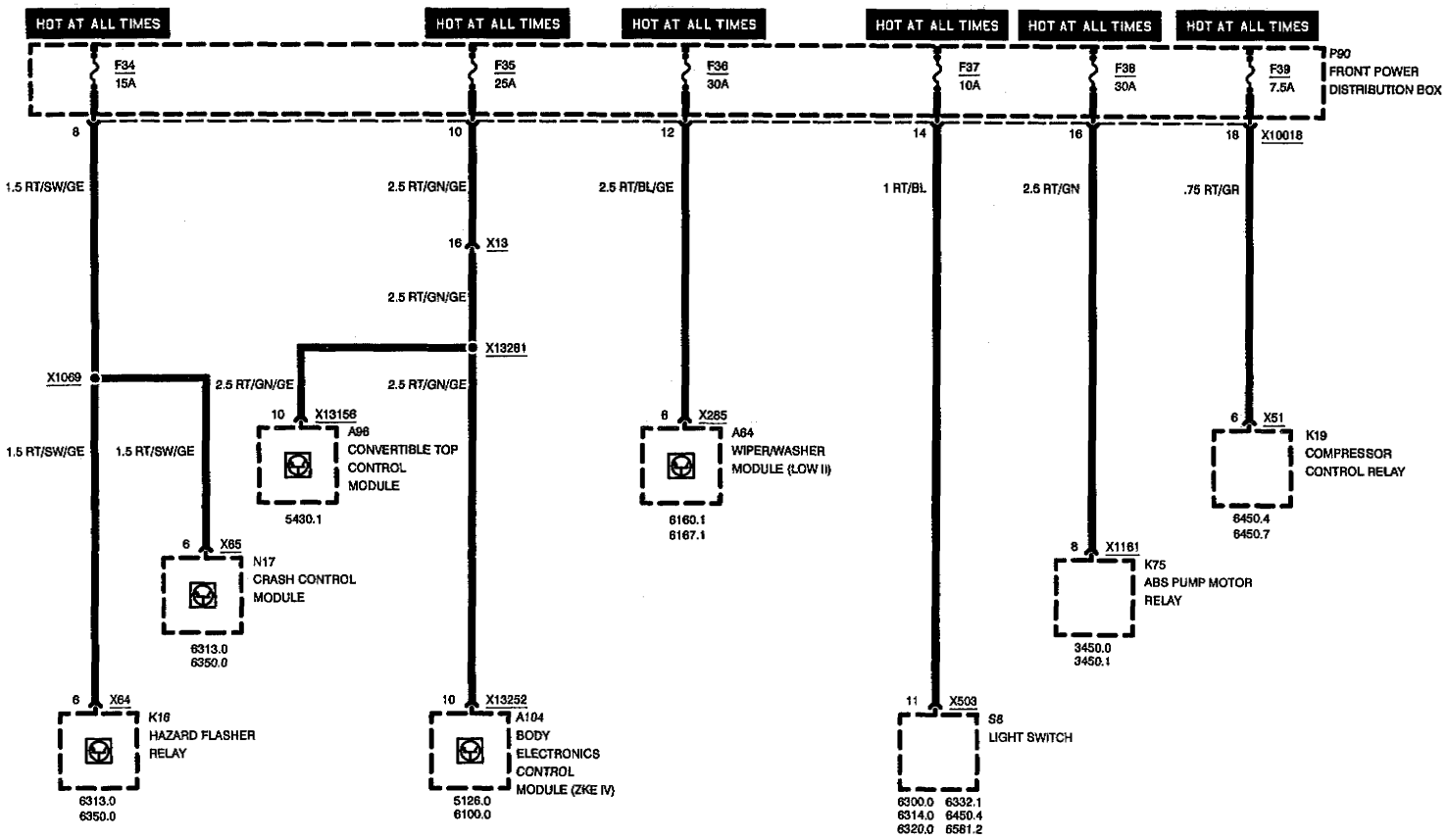
FUSES 32 AND 33



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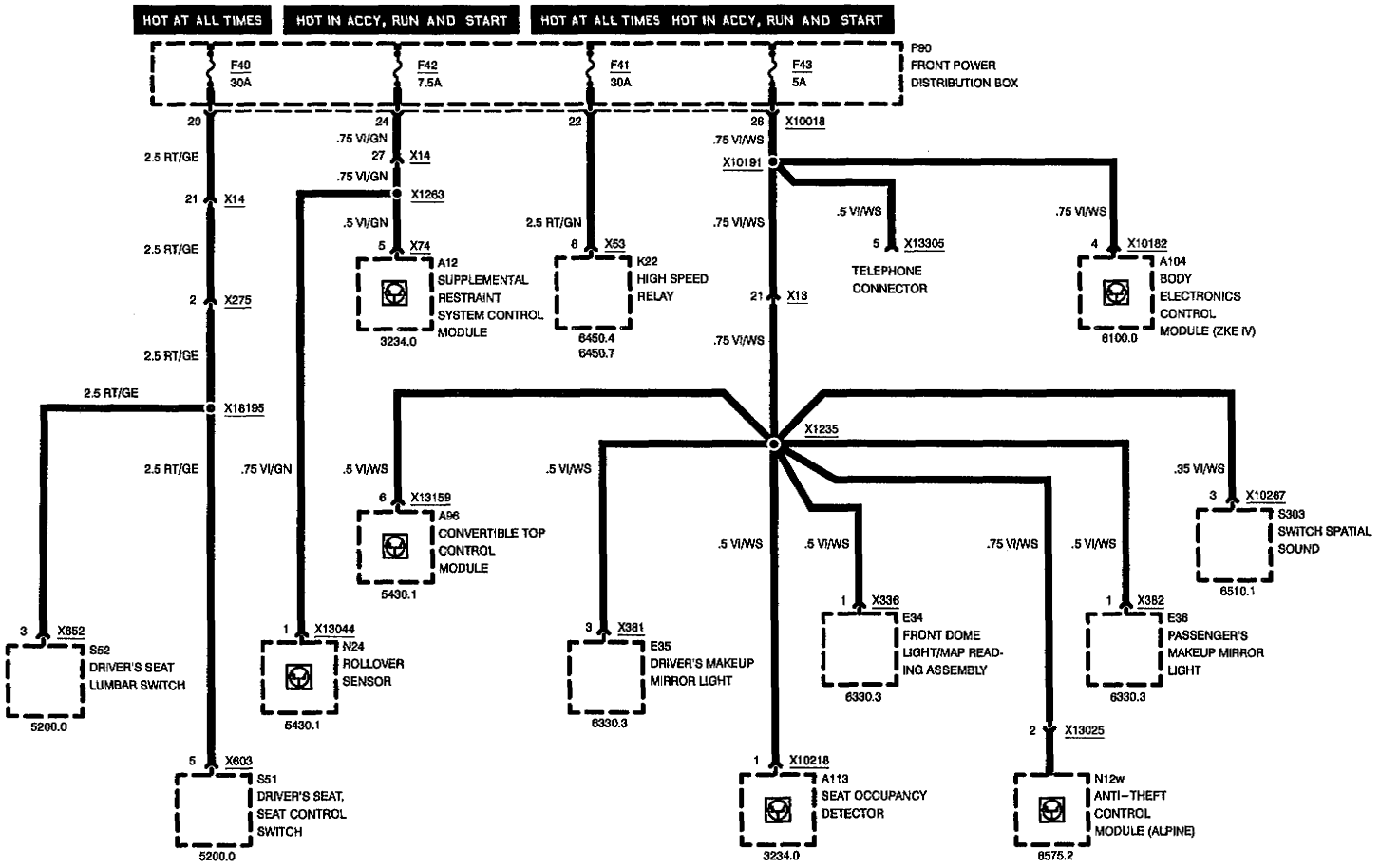
FUSES 34, 35, 36, 37, 38, AND 39



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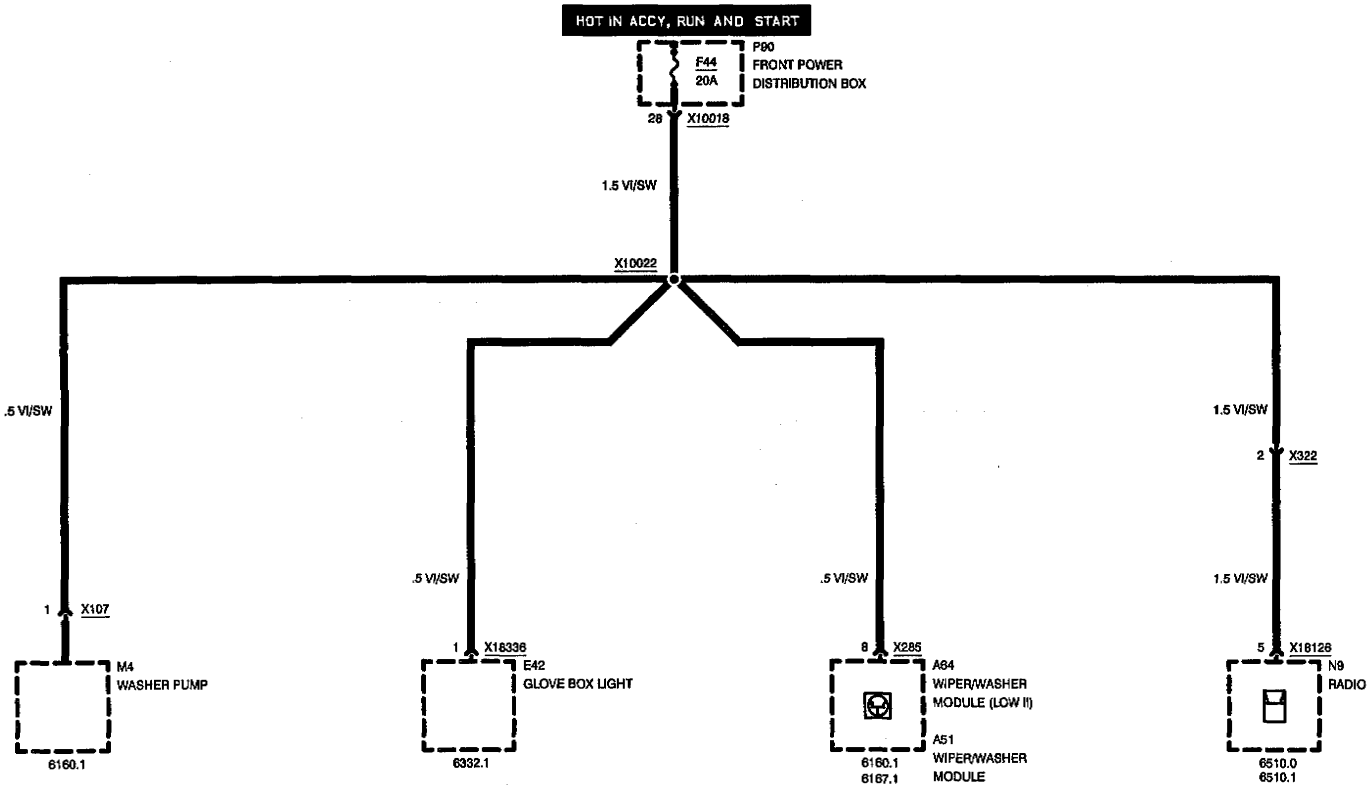
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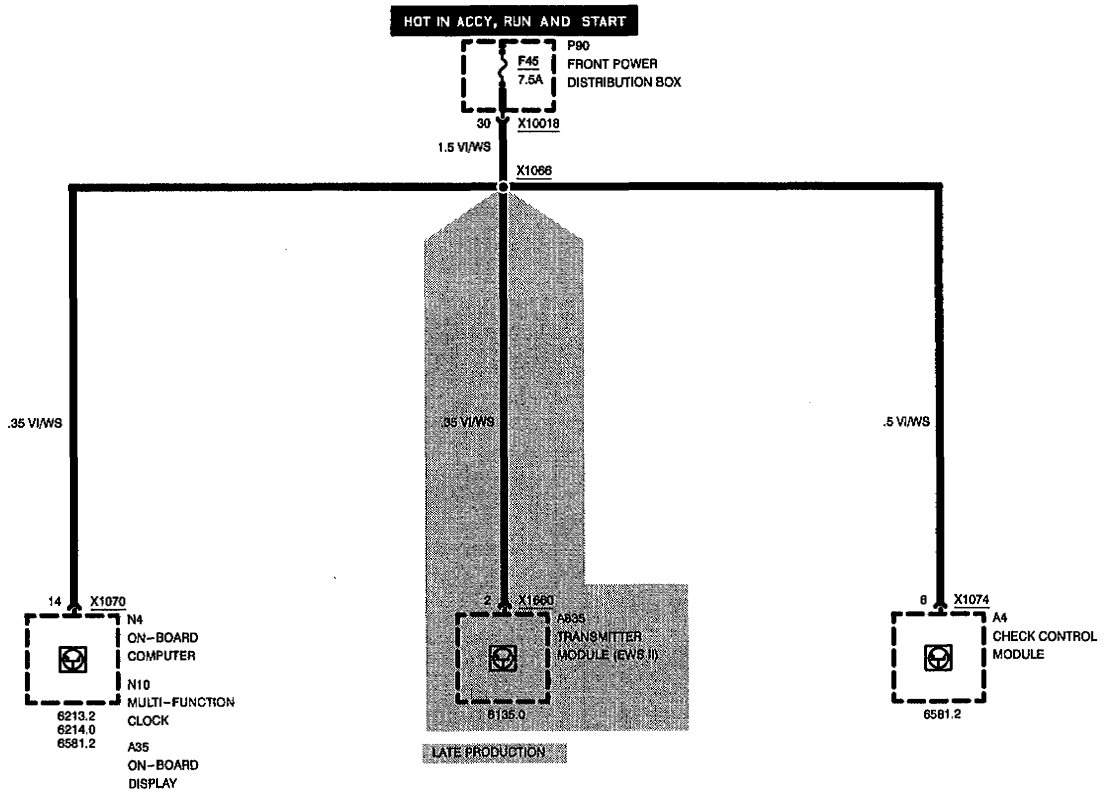
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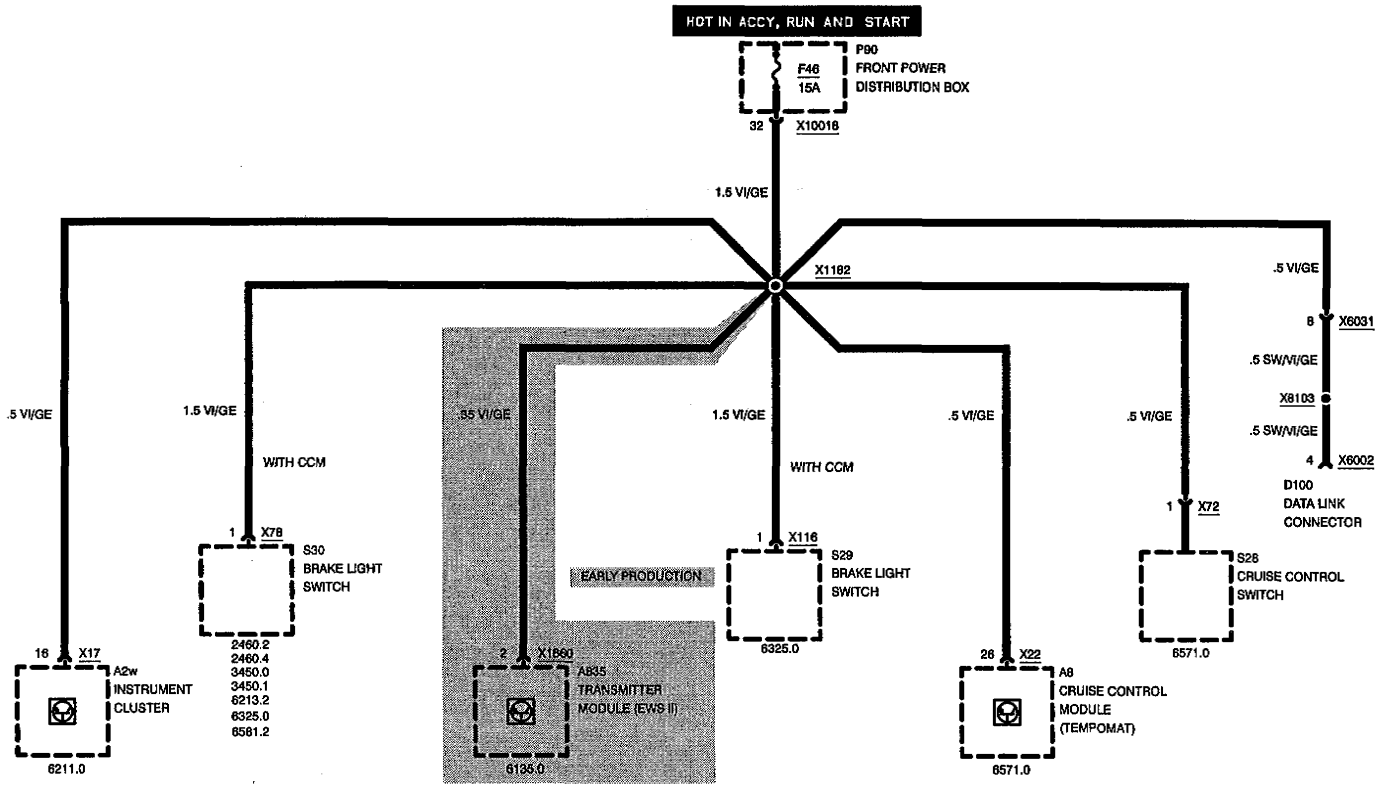
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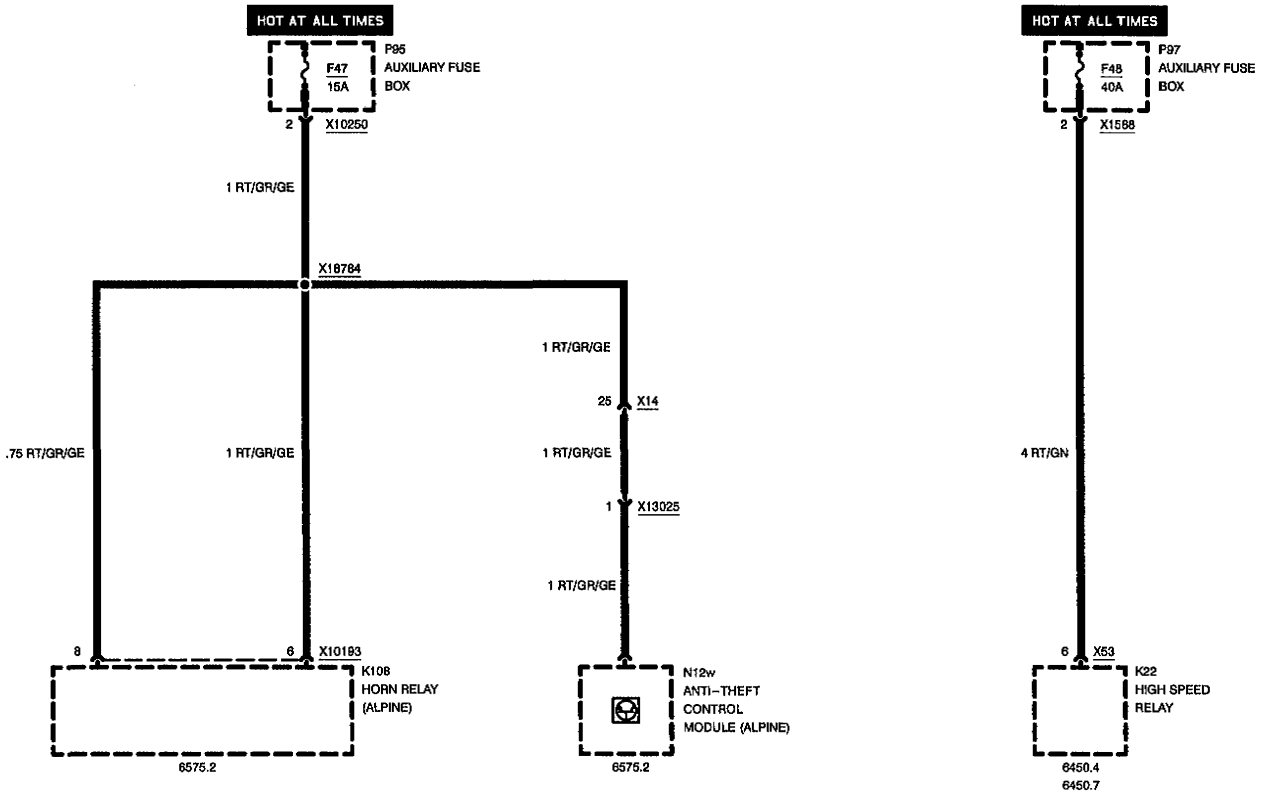
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FUSE DETAILS

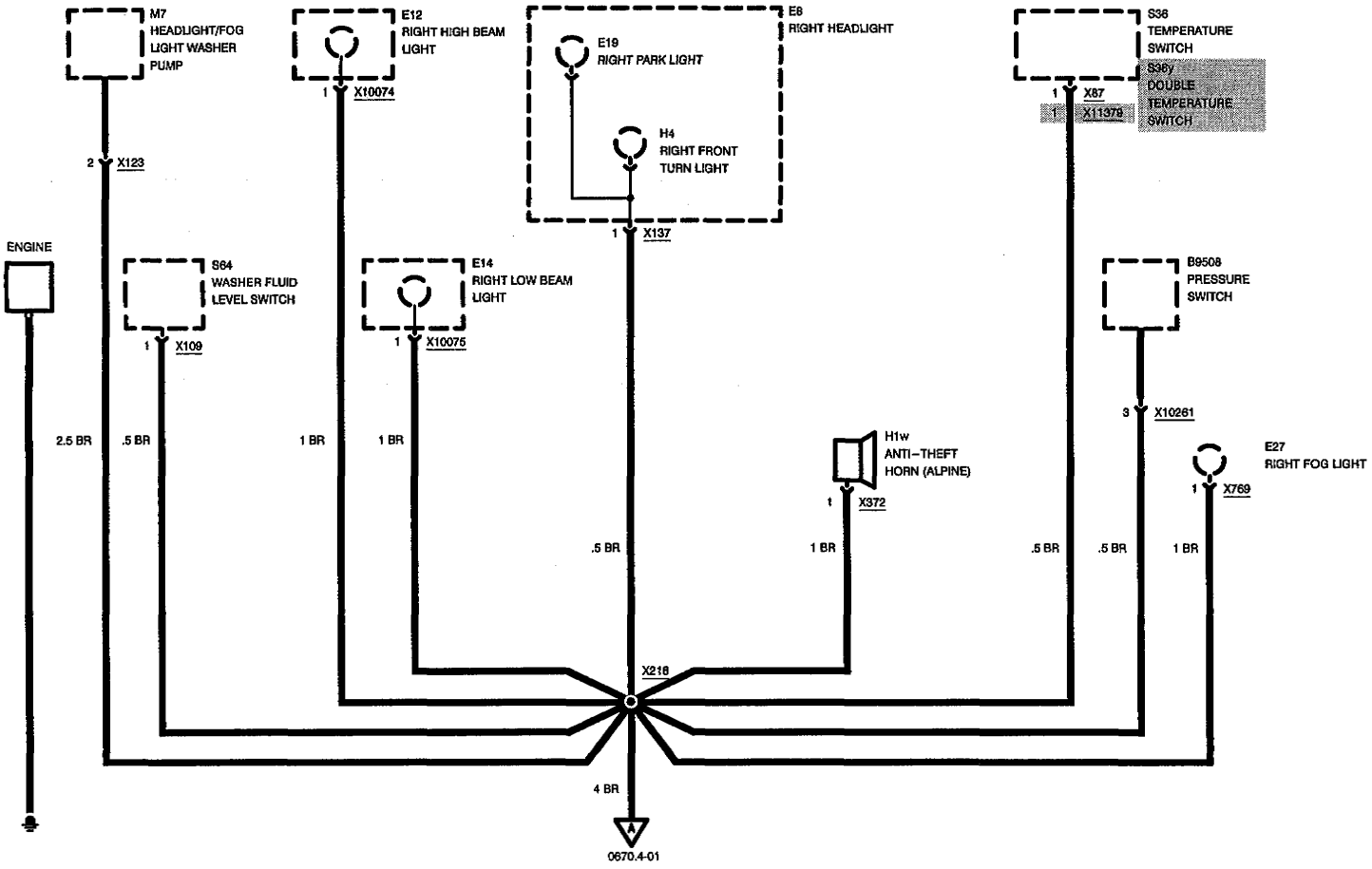
FUSES 47 AND 48



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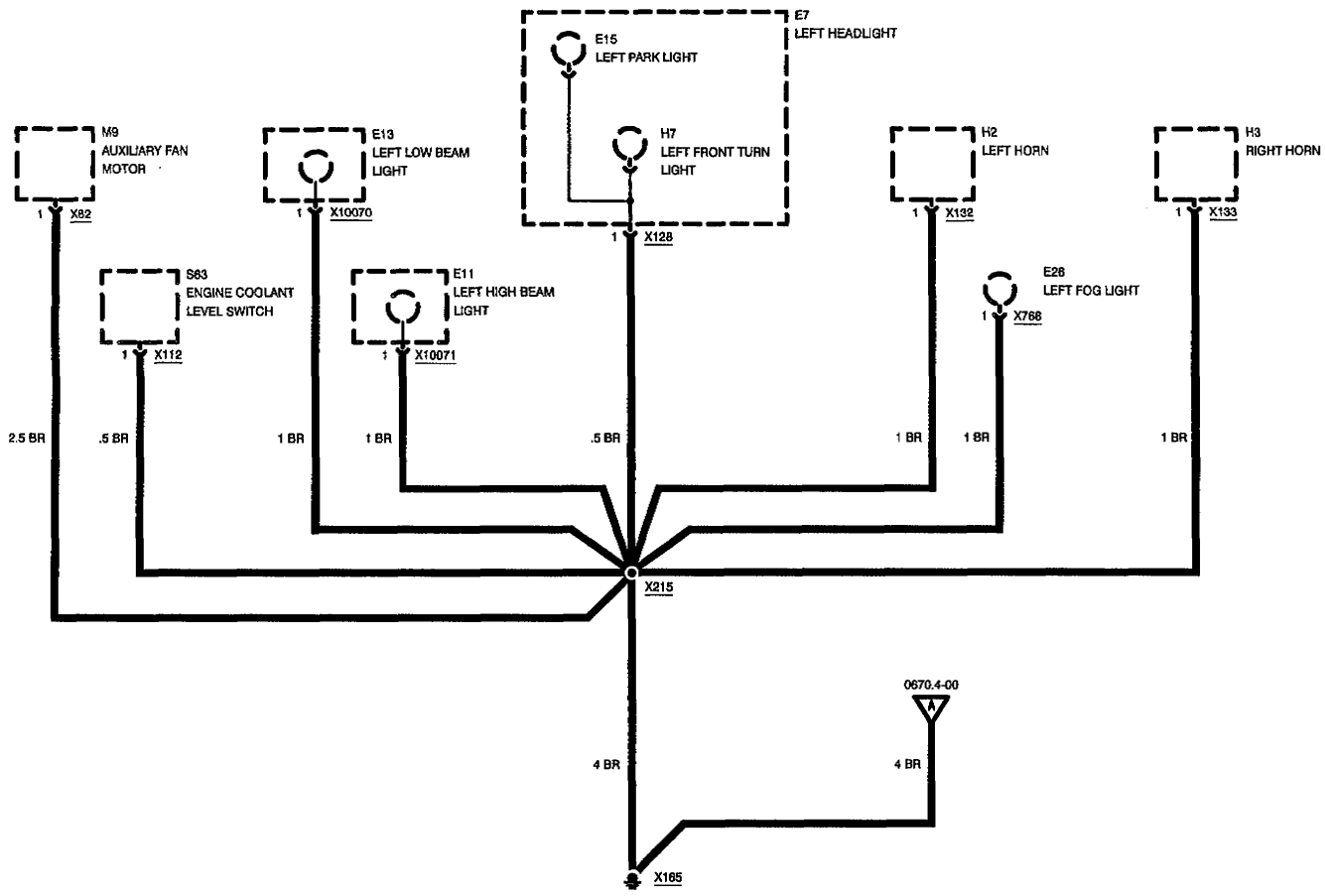
GROUND X165



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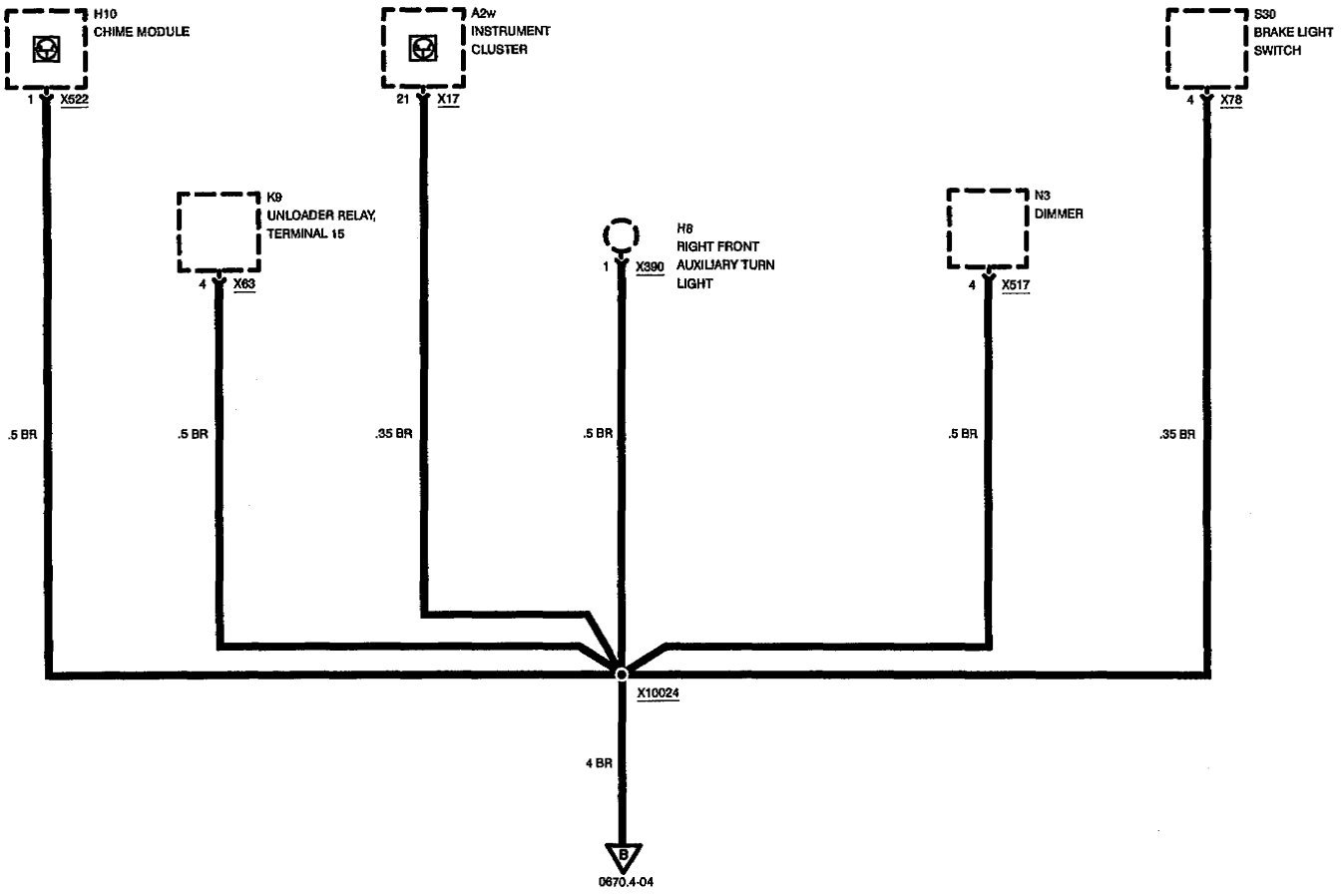
GROUND X165



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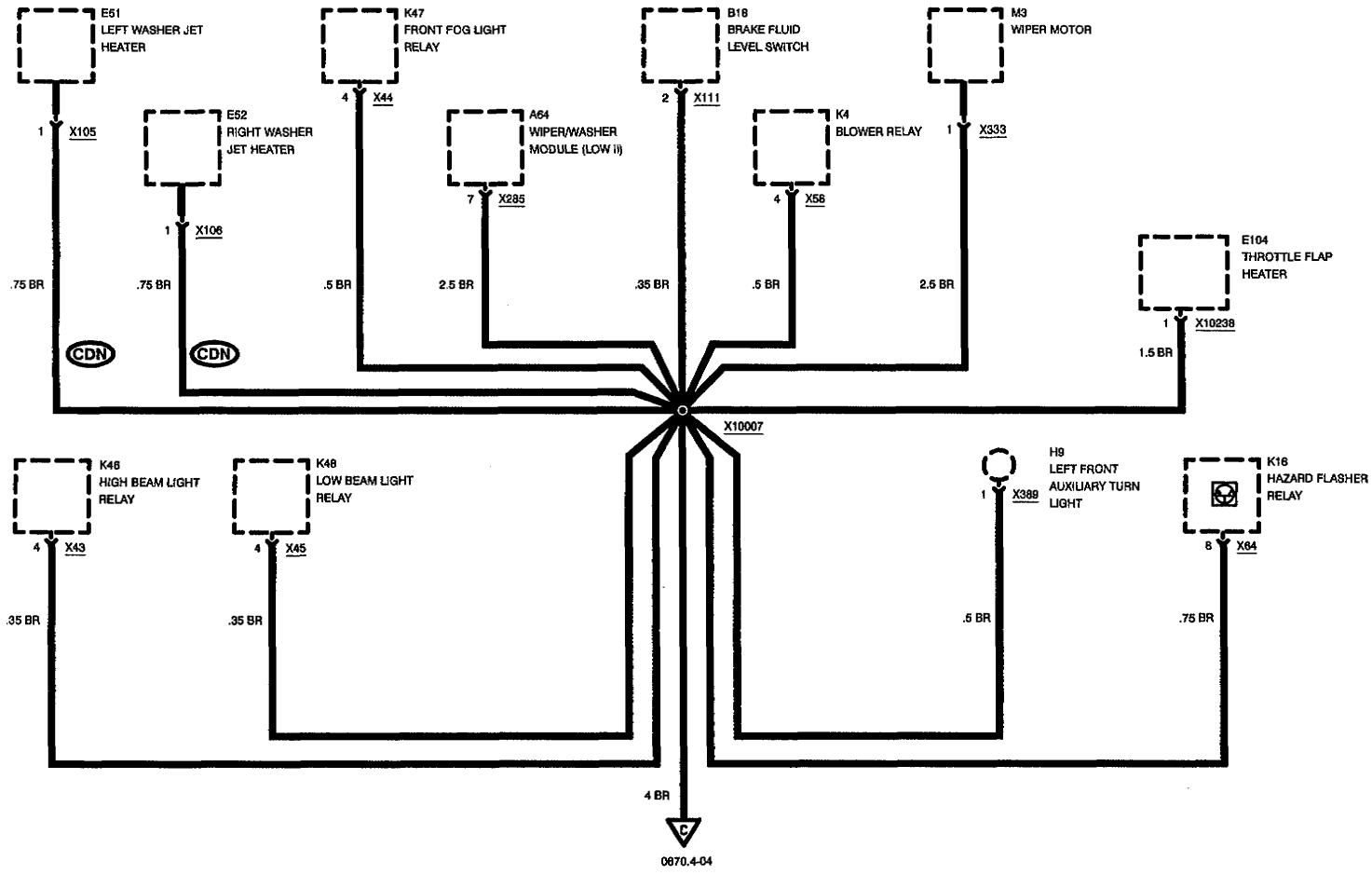
GROUND X173



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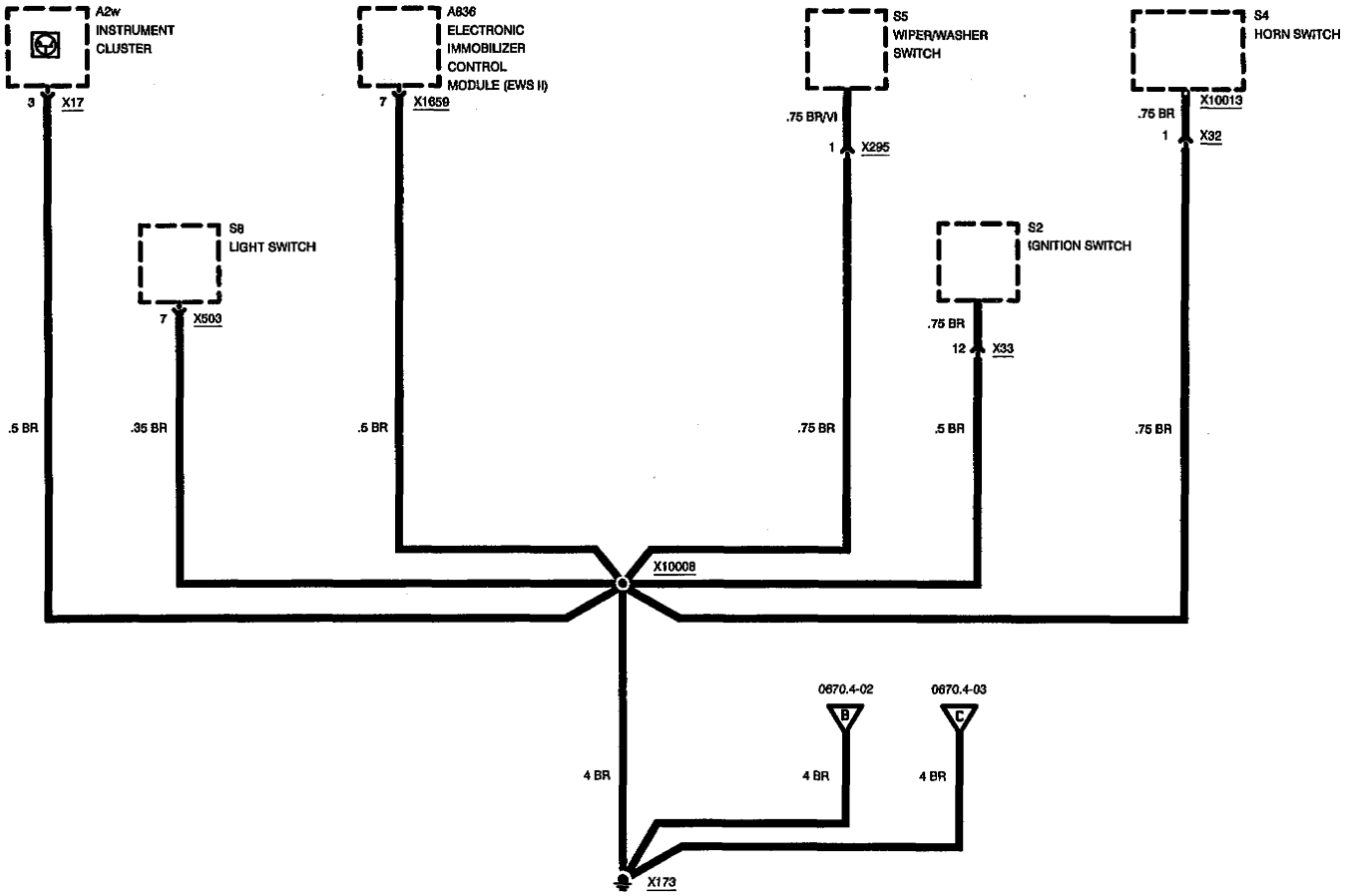
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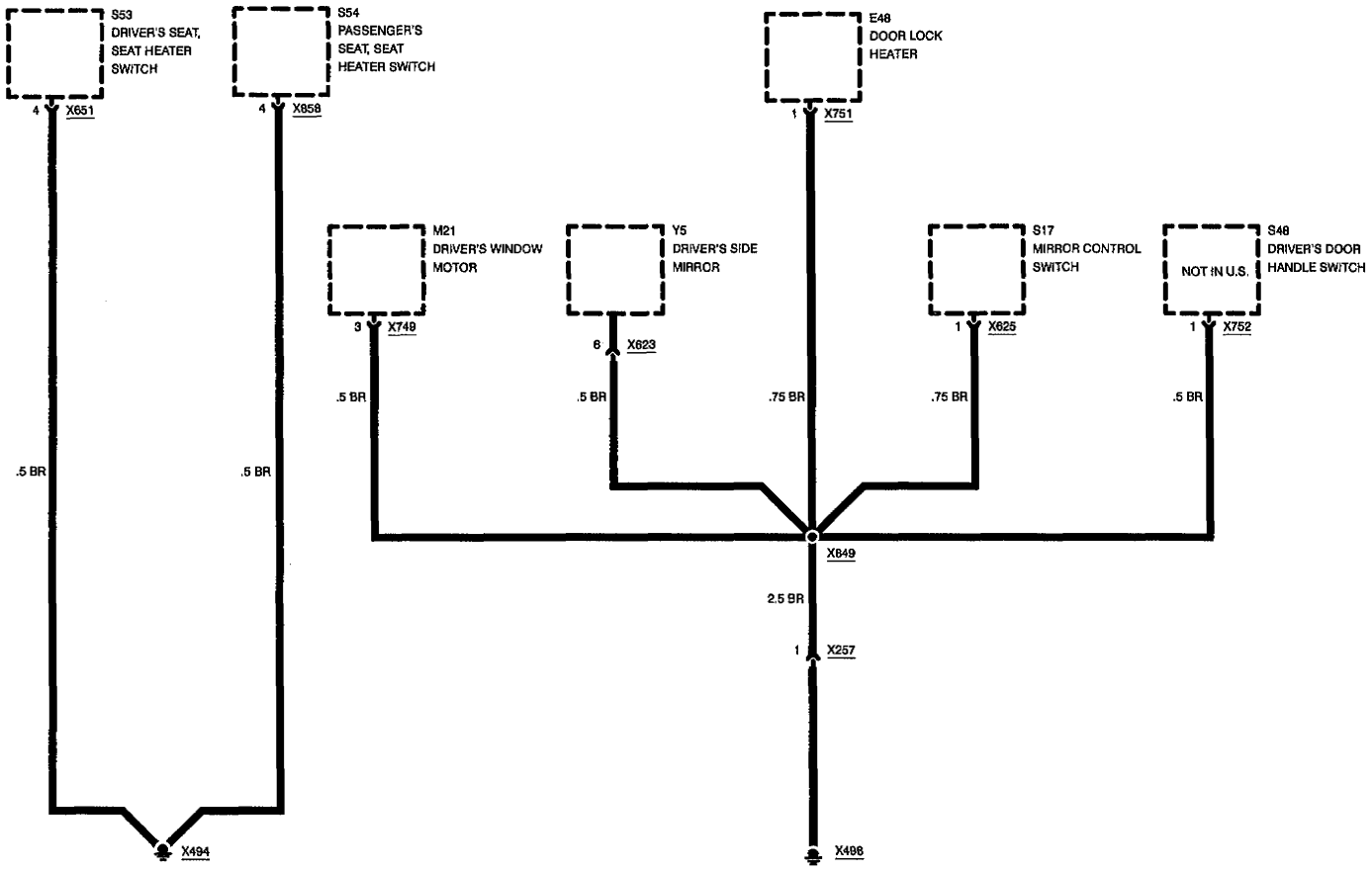
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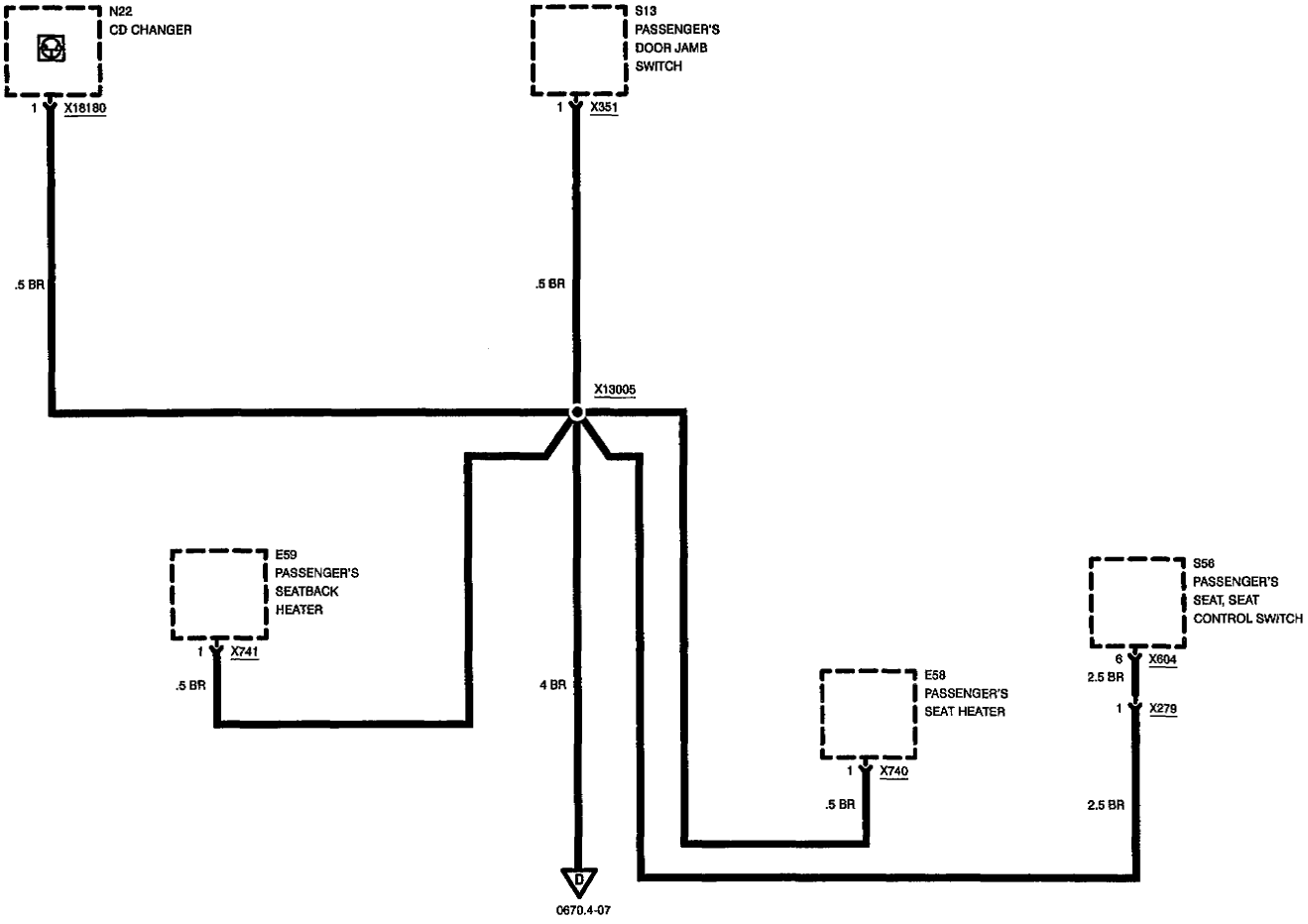
GROUNDS X494 AND X498



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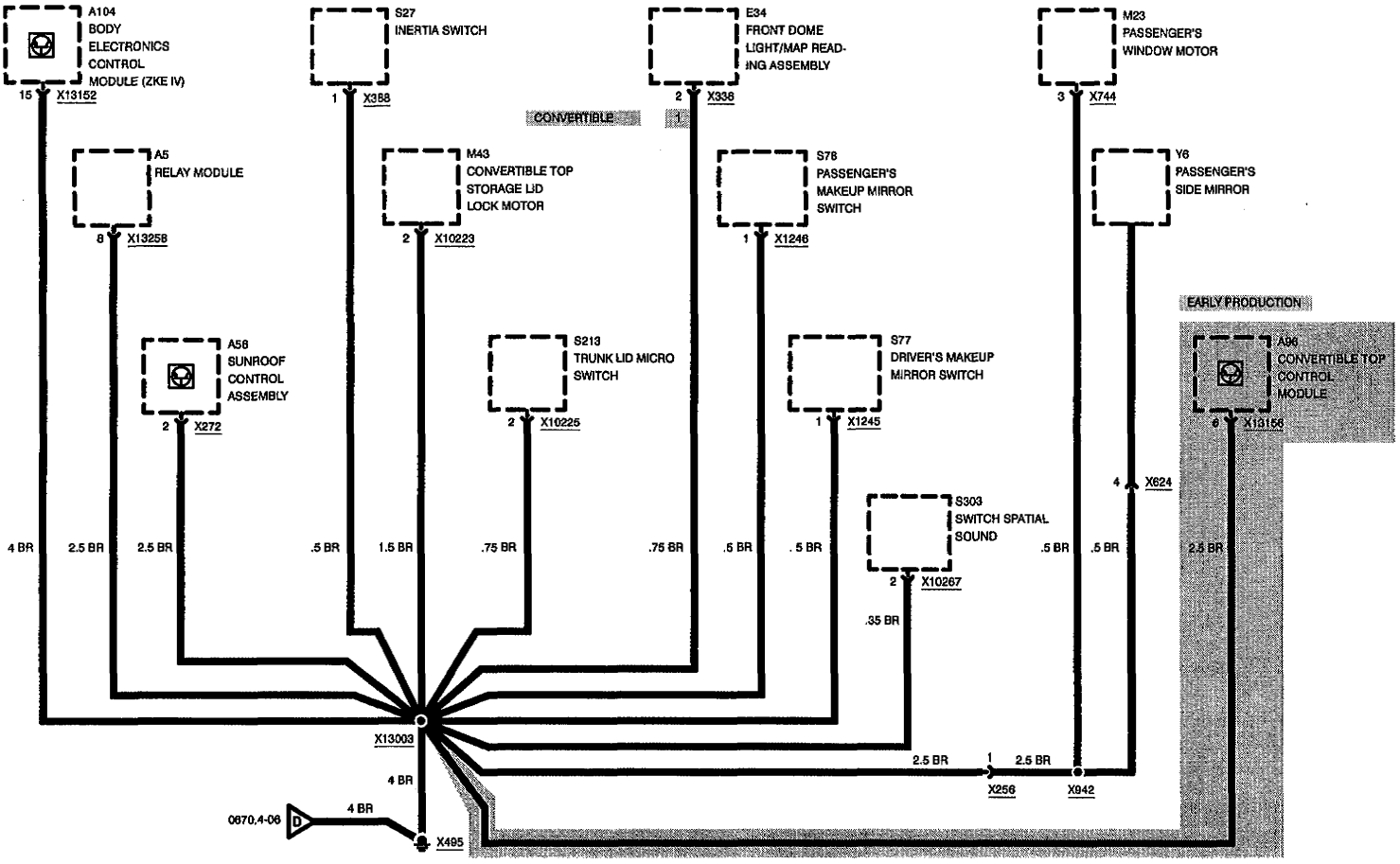
GROUND X495



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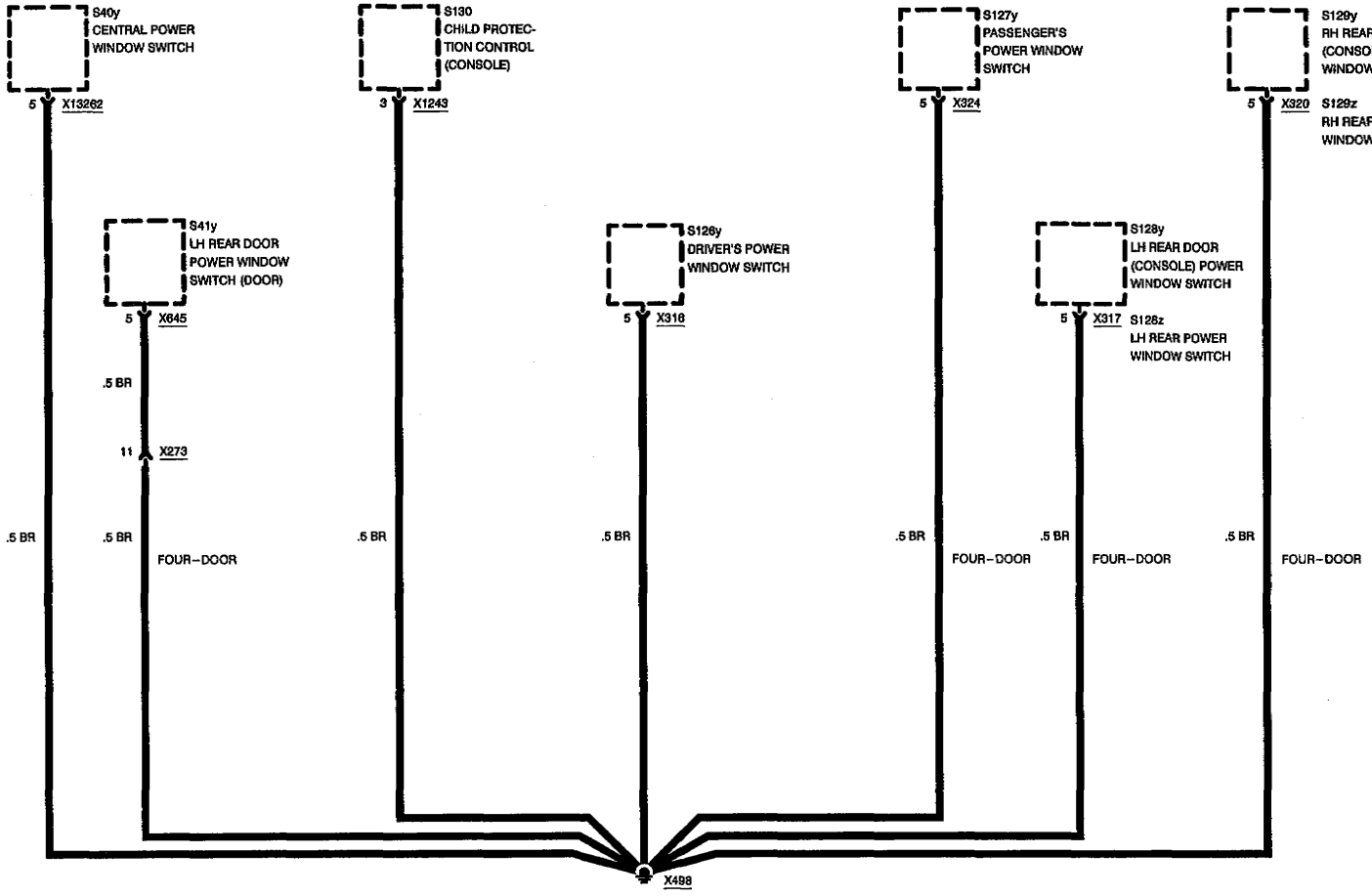
GROUND X495



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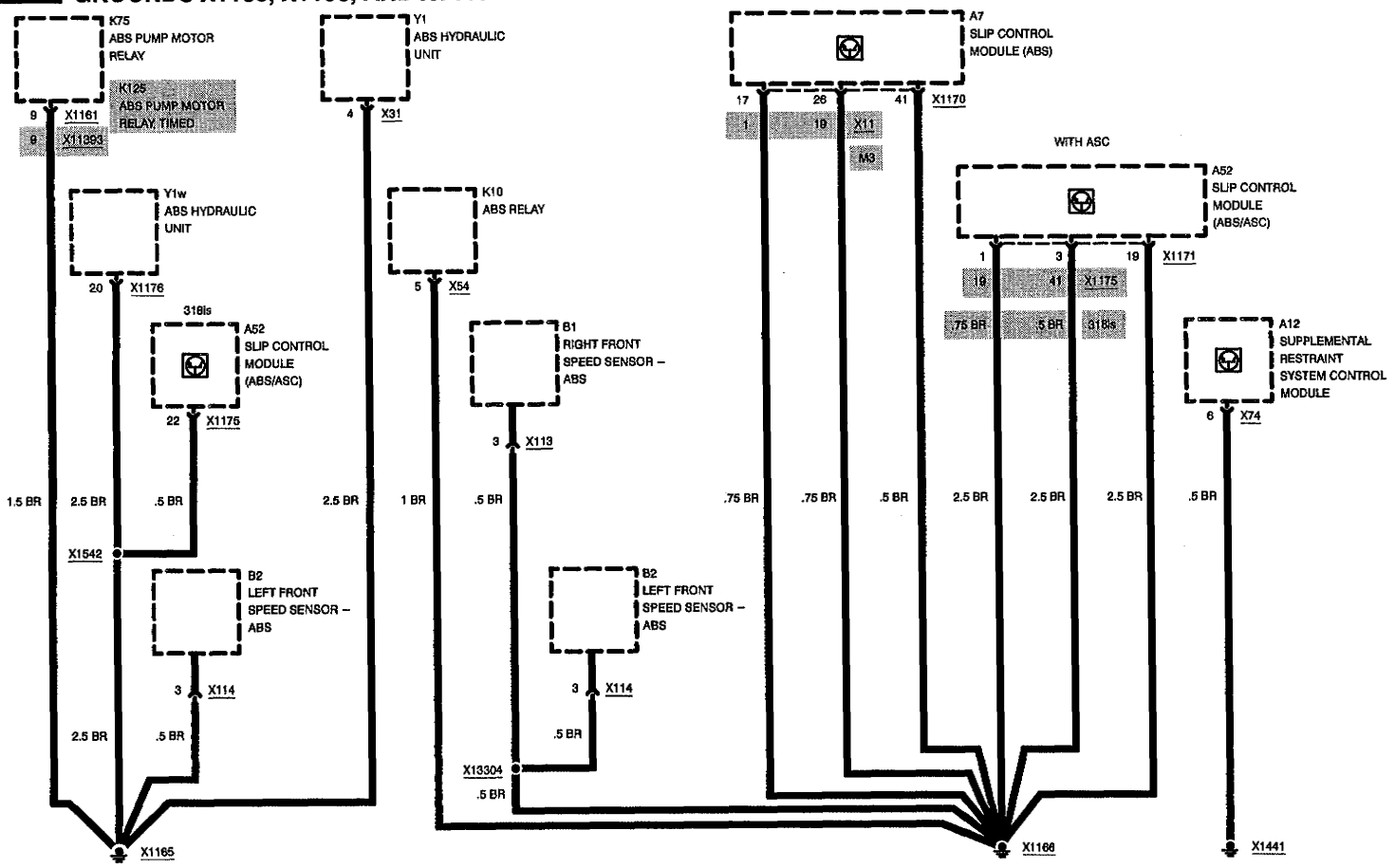
GROUND X498



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GROUNDS X1165, X1166, AND X1441

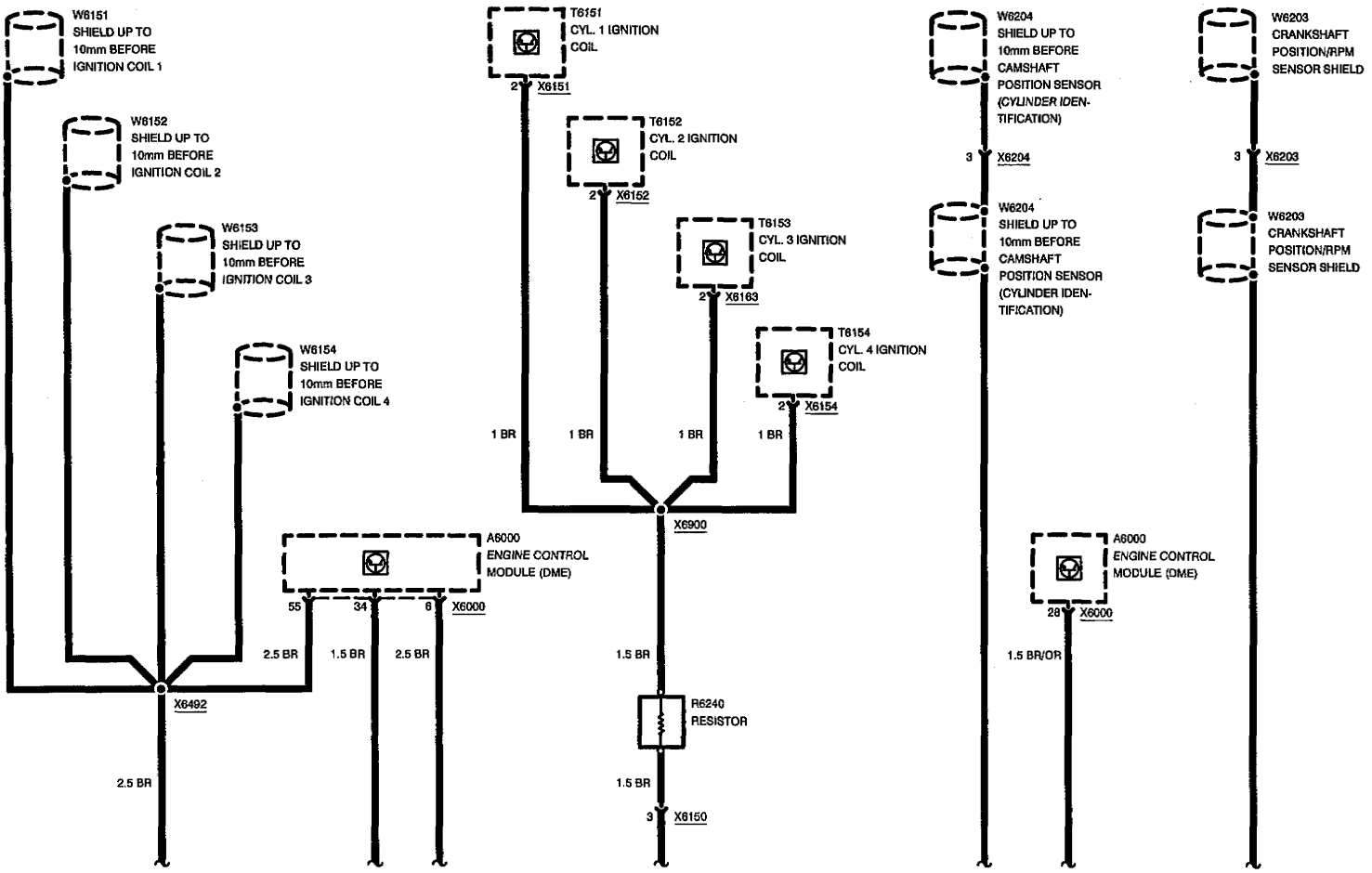


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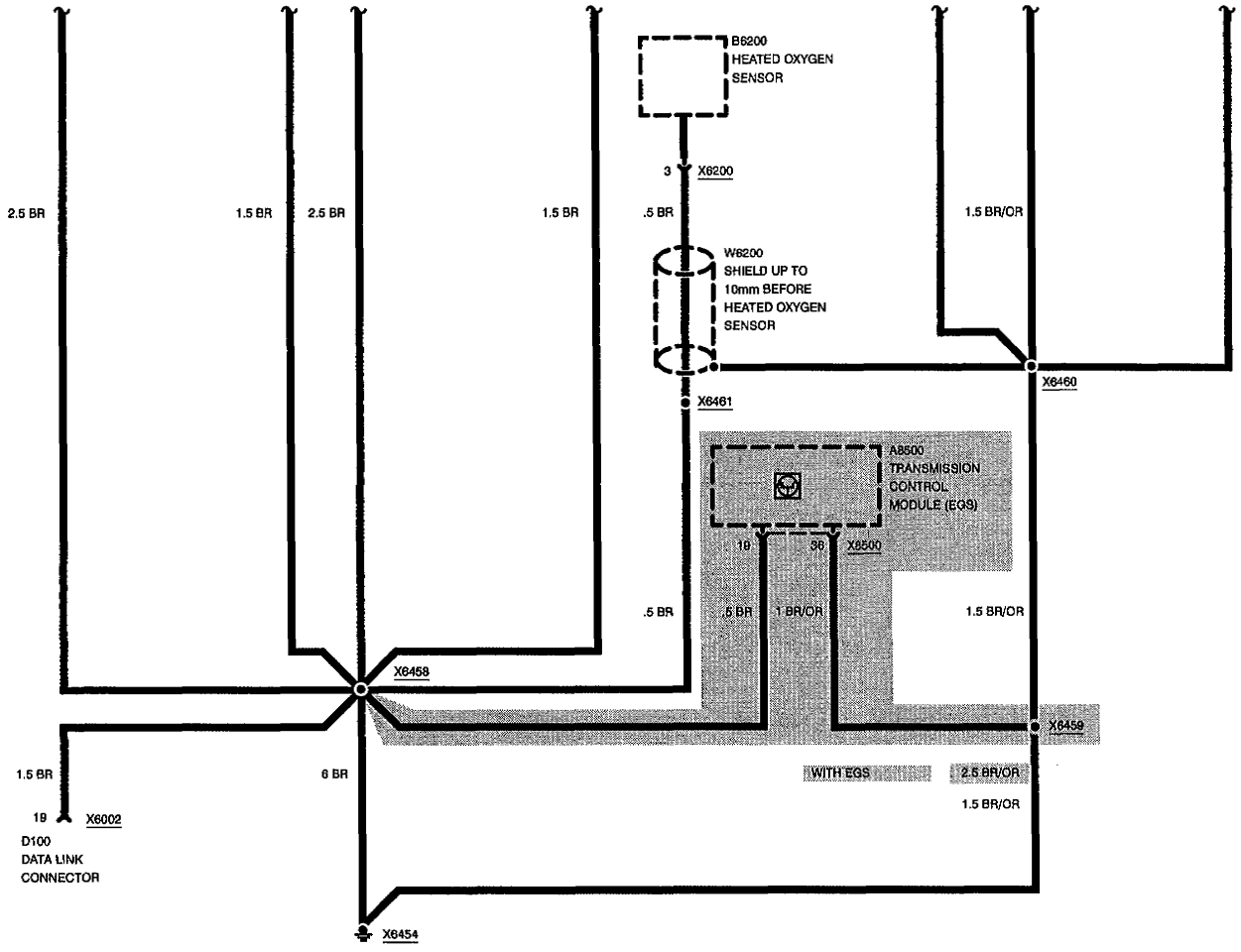
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GROUND X6454

318is EARLY PRODUCTION



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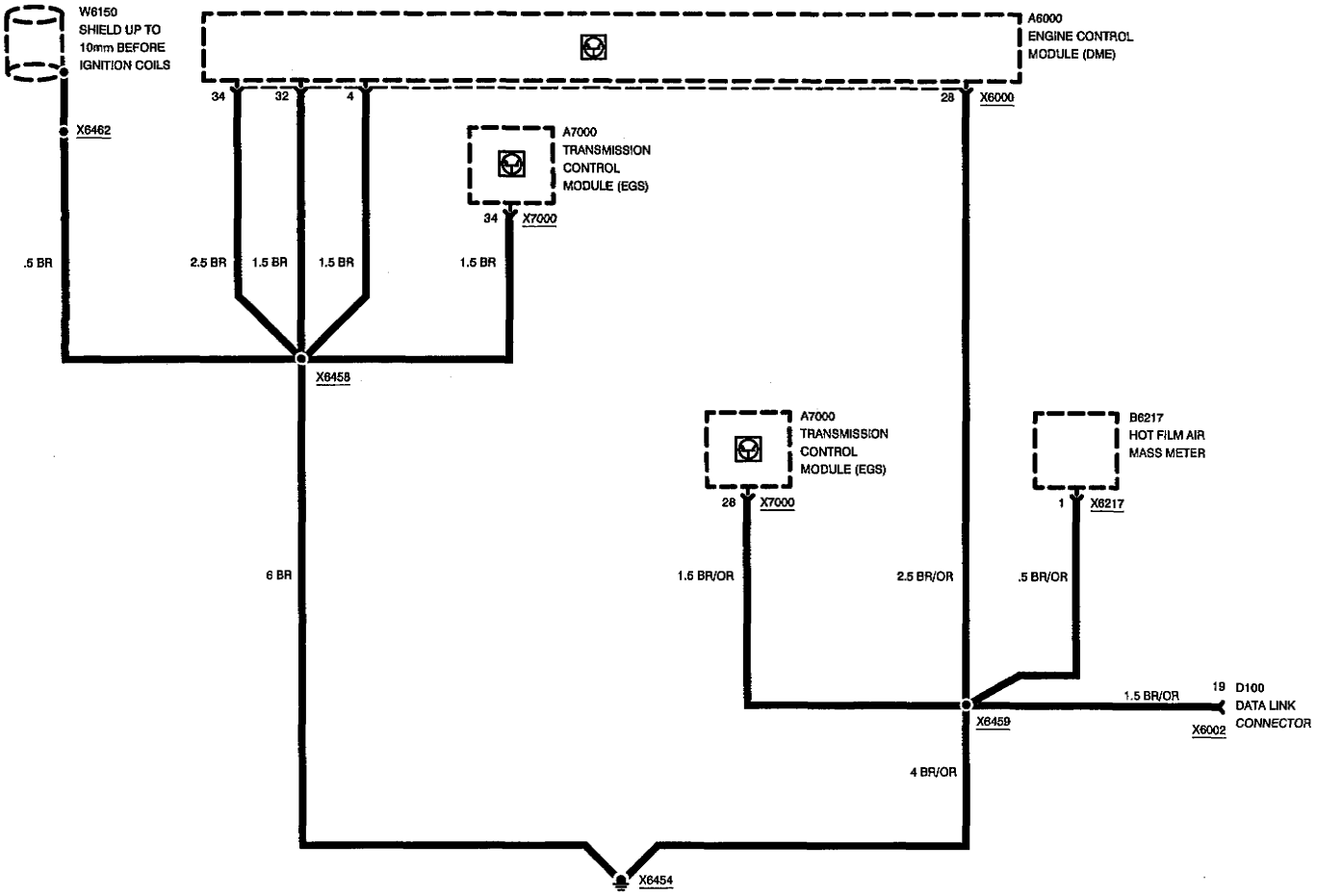


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320i CDN

GROUND X6454

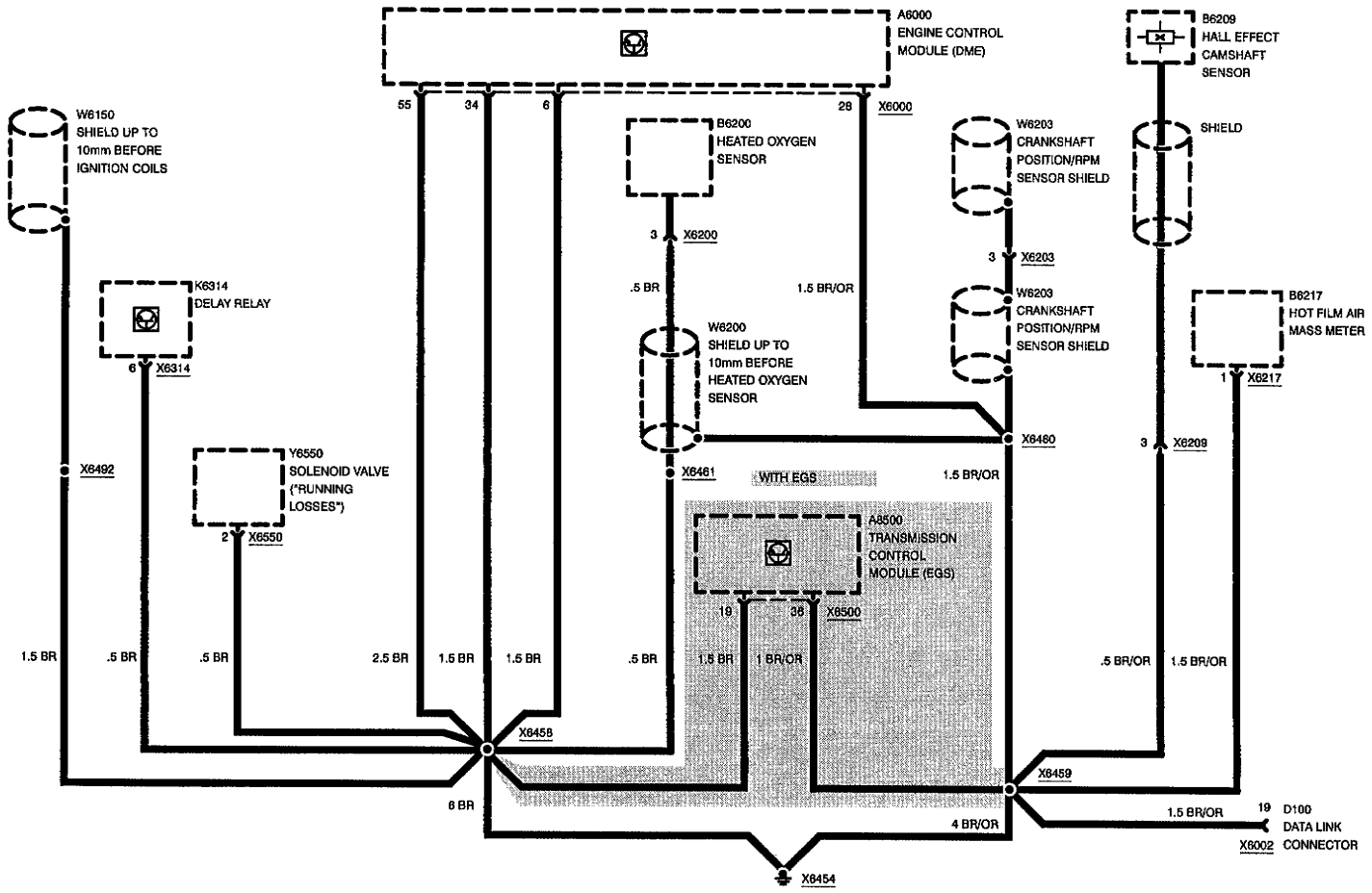


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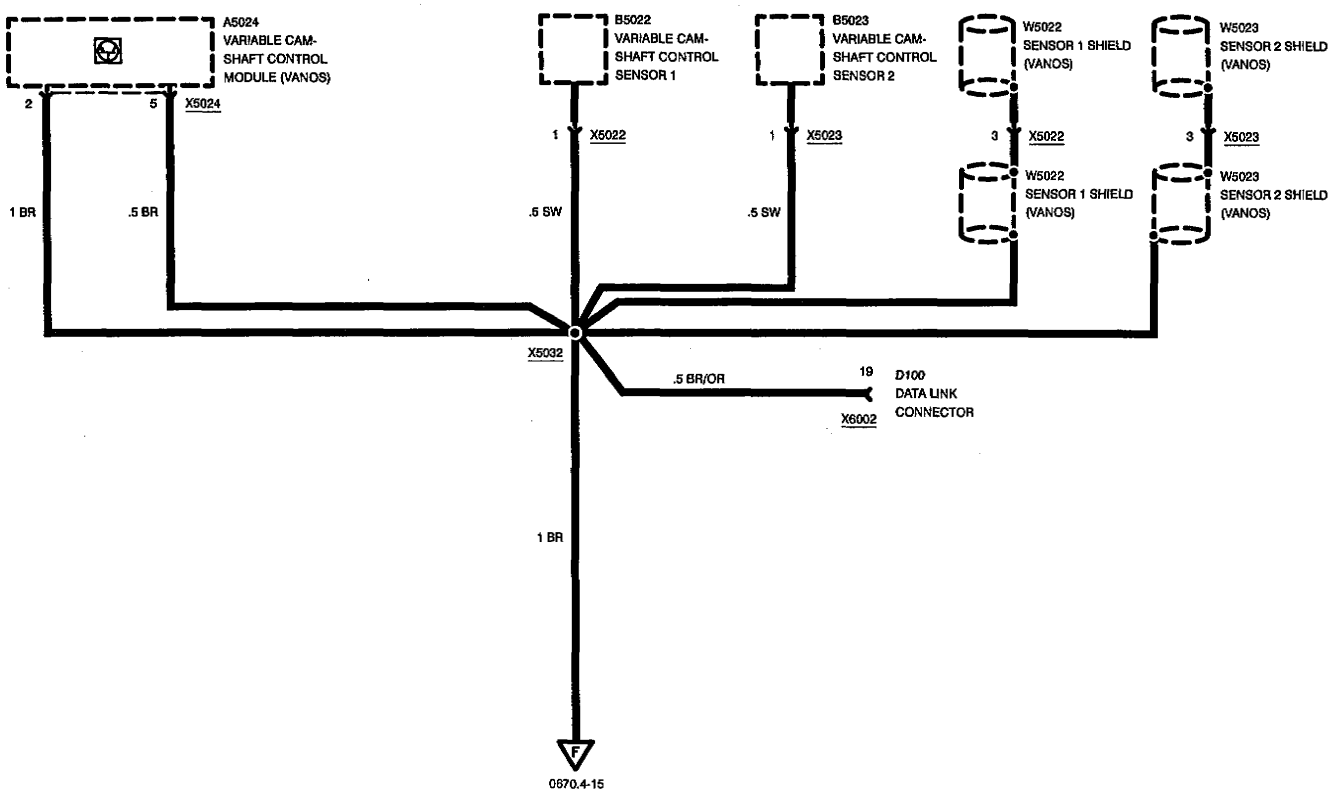
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325i, M3 (USA)

GROUND X6454



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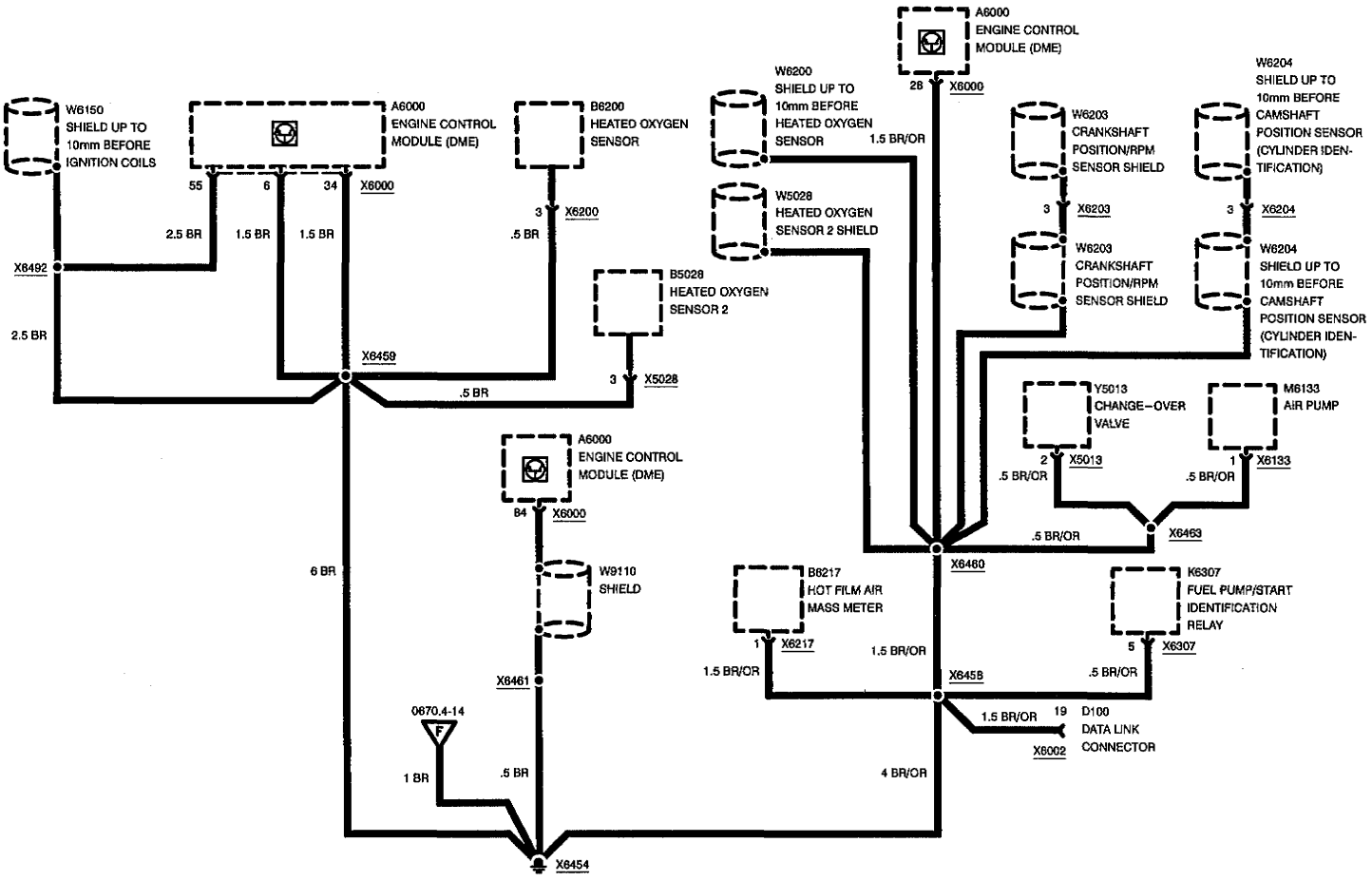


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M3 CDN

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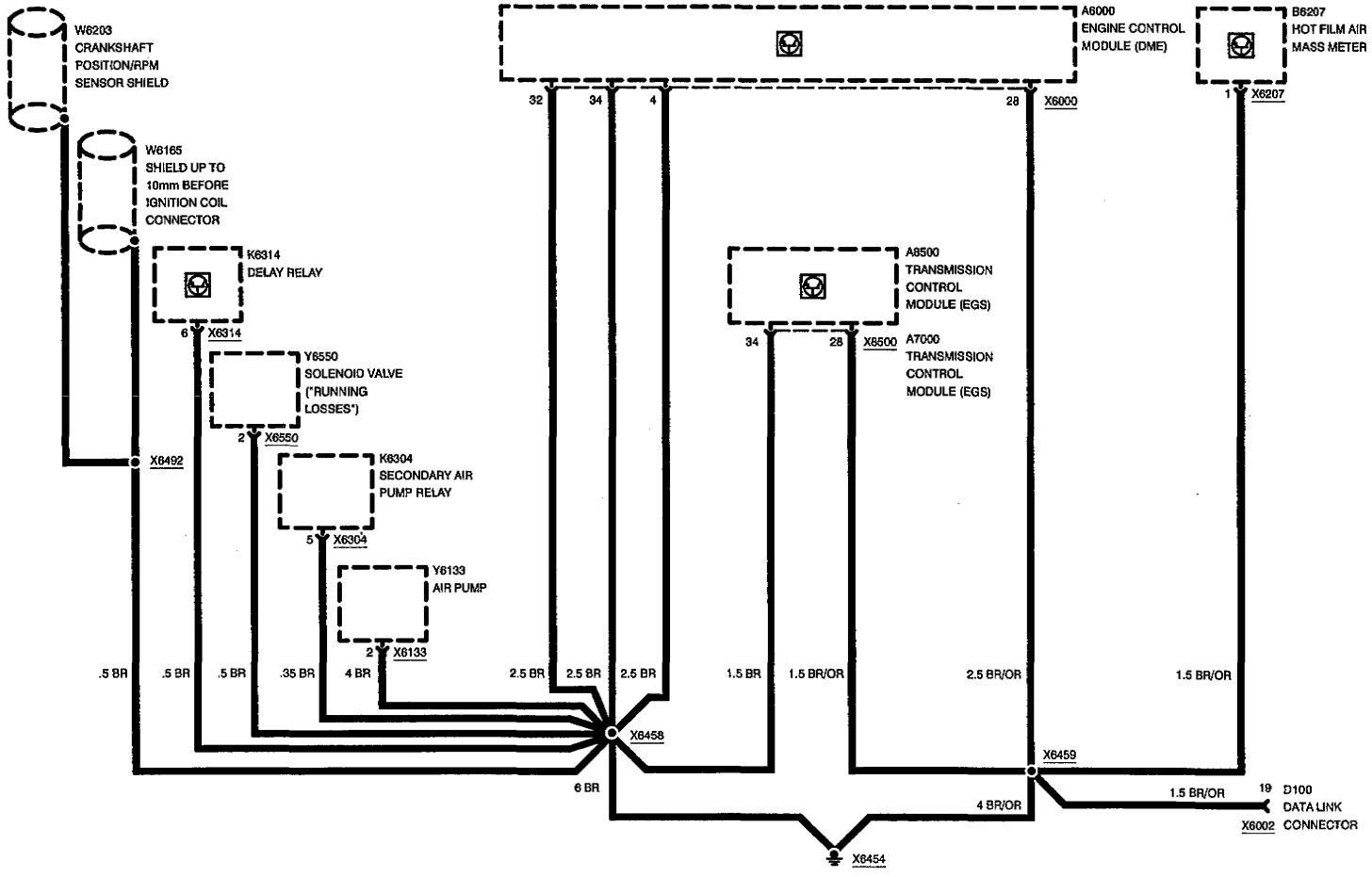


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328i, M3 USA

GROUND X6454

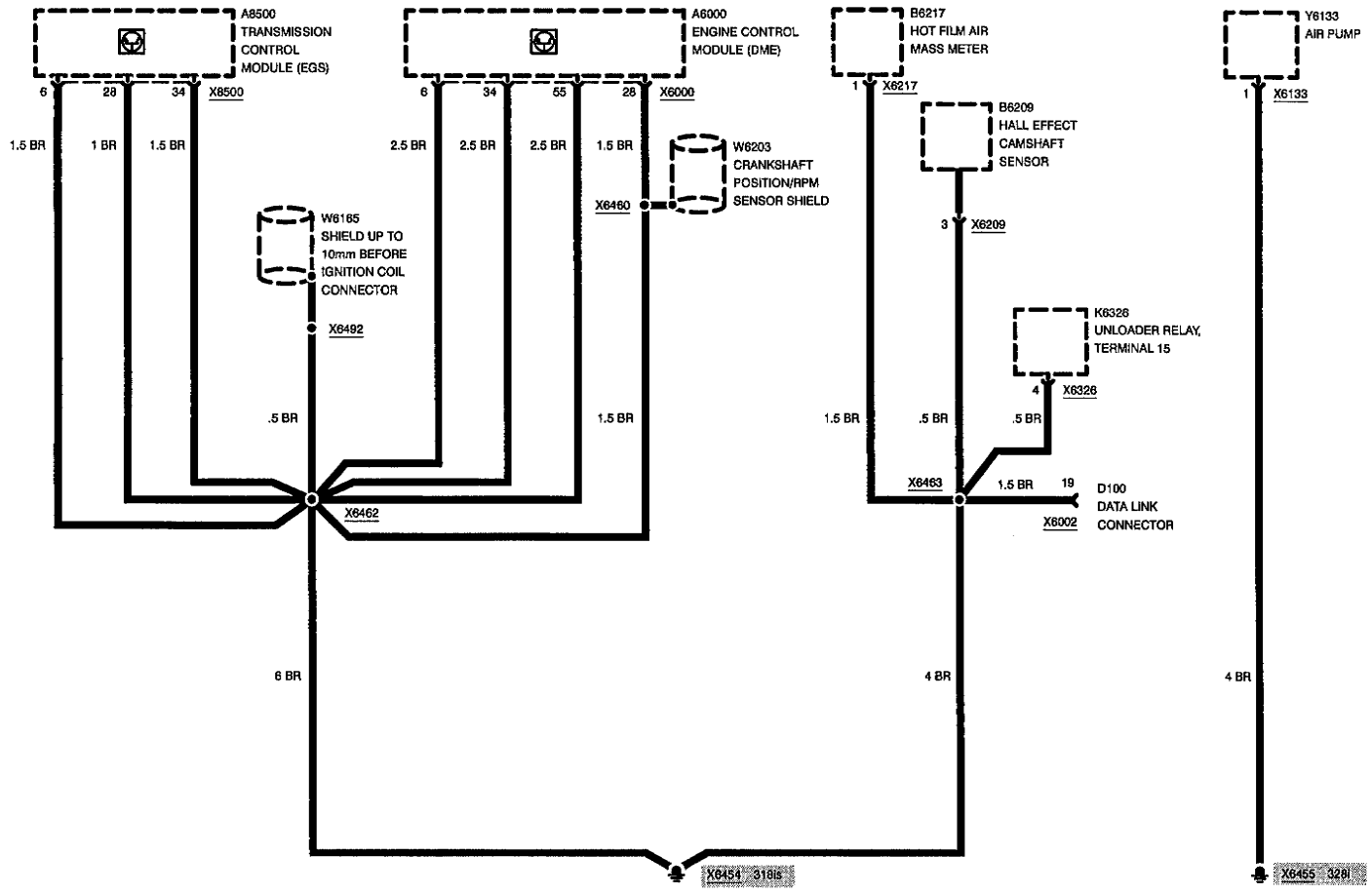


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GROUNDS X6454 AND X6455

318is, 328i LATE PRODUCTION

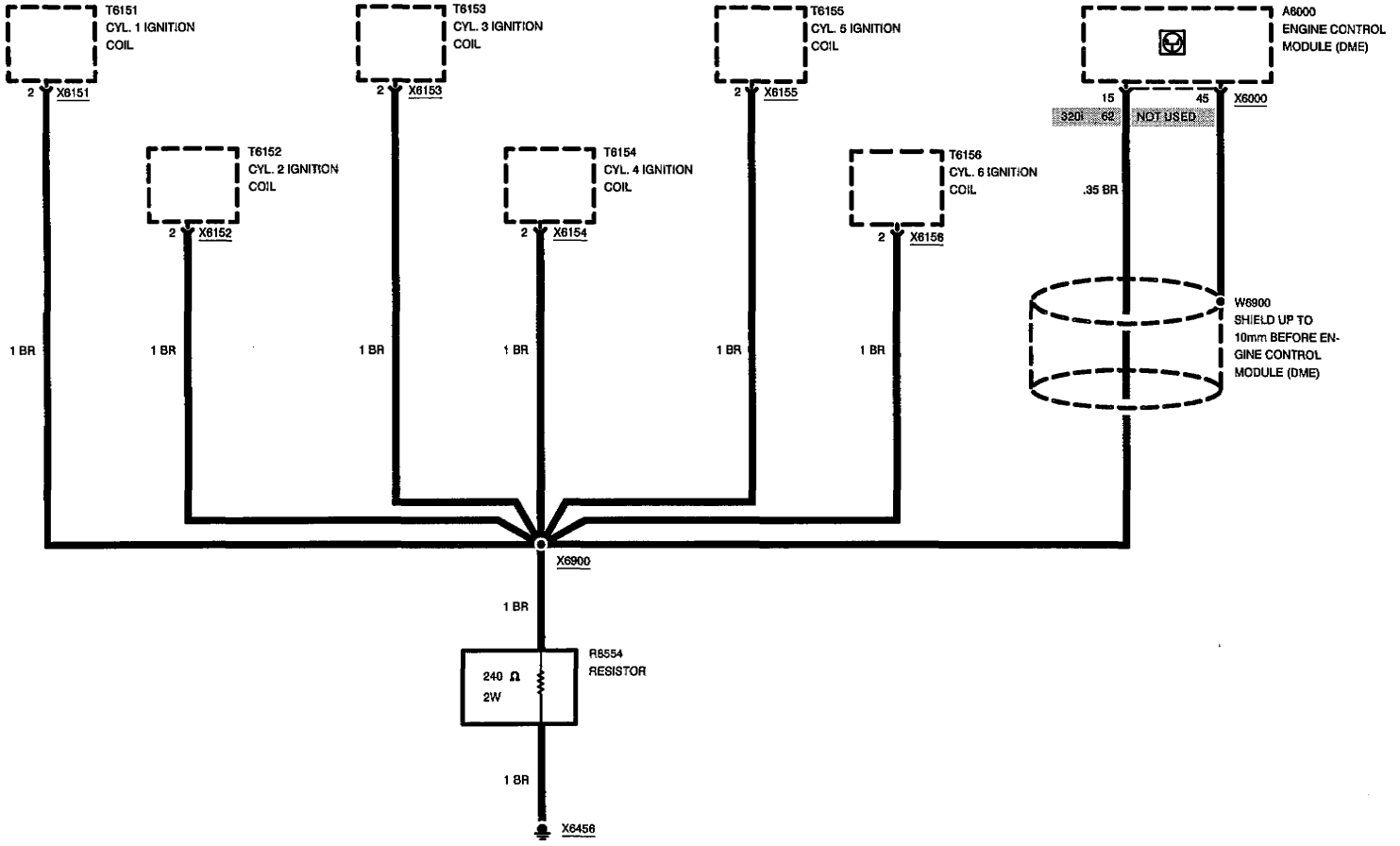


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320i, 325i

GROUND X6456

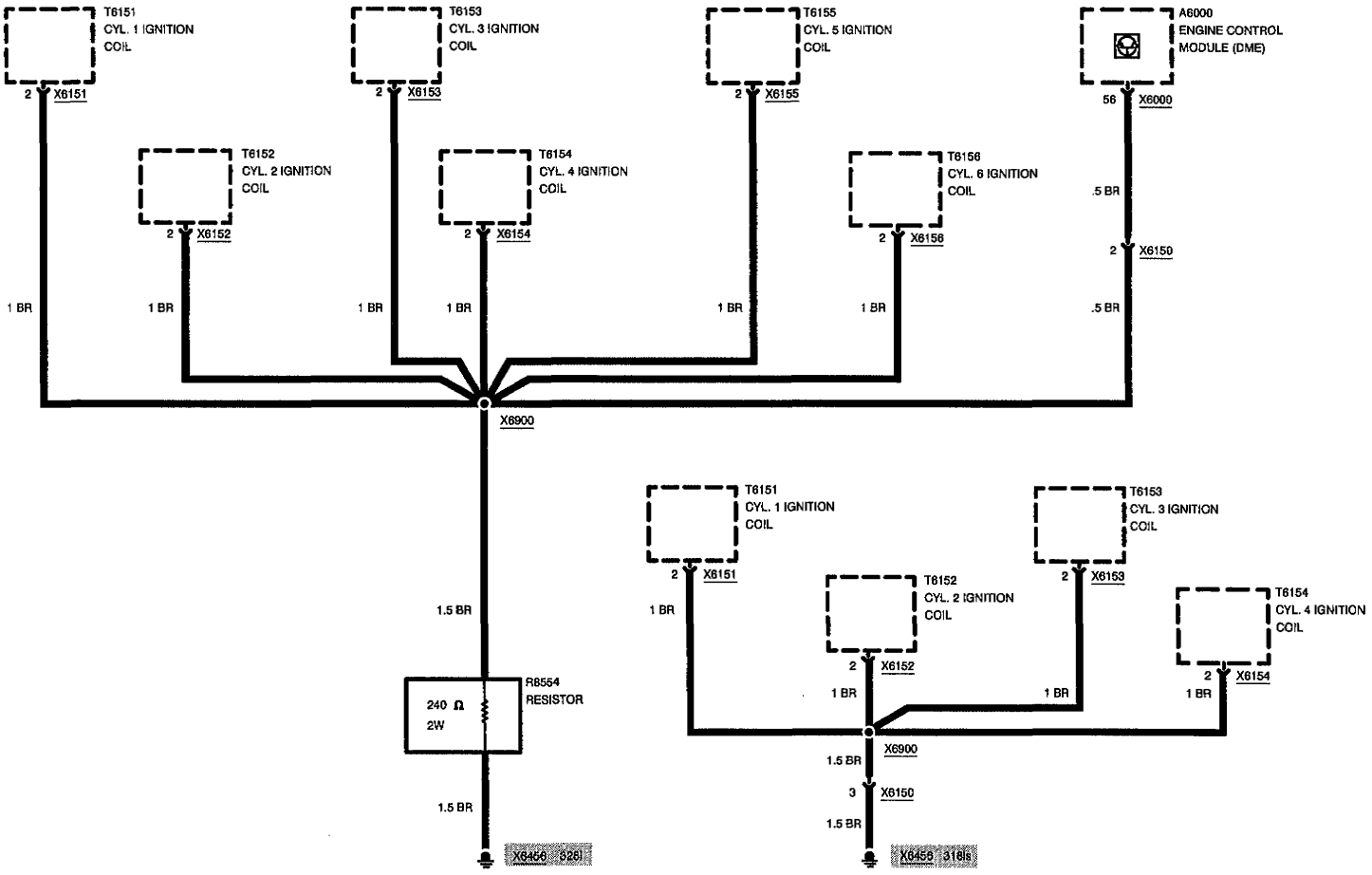


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318is, 328i

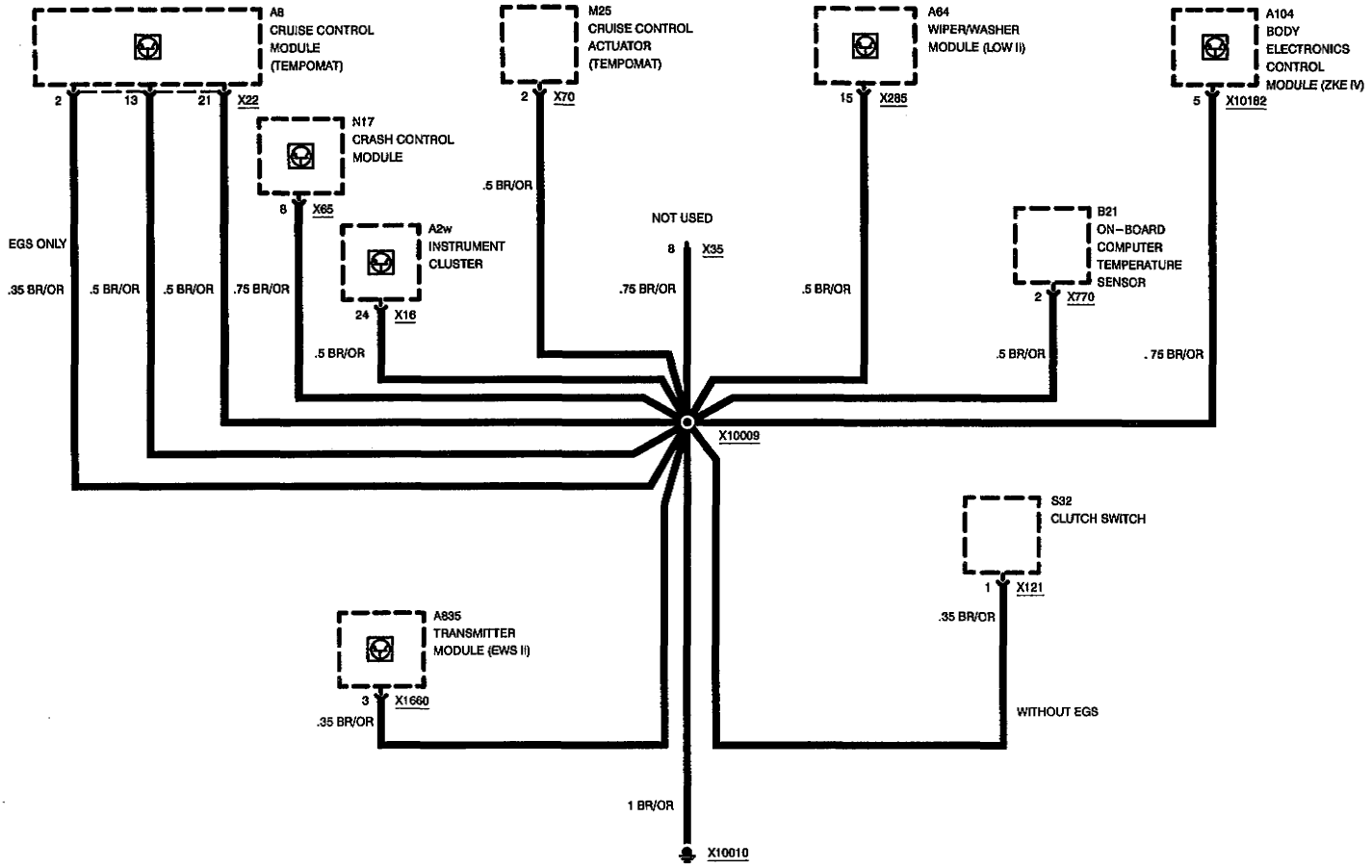
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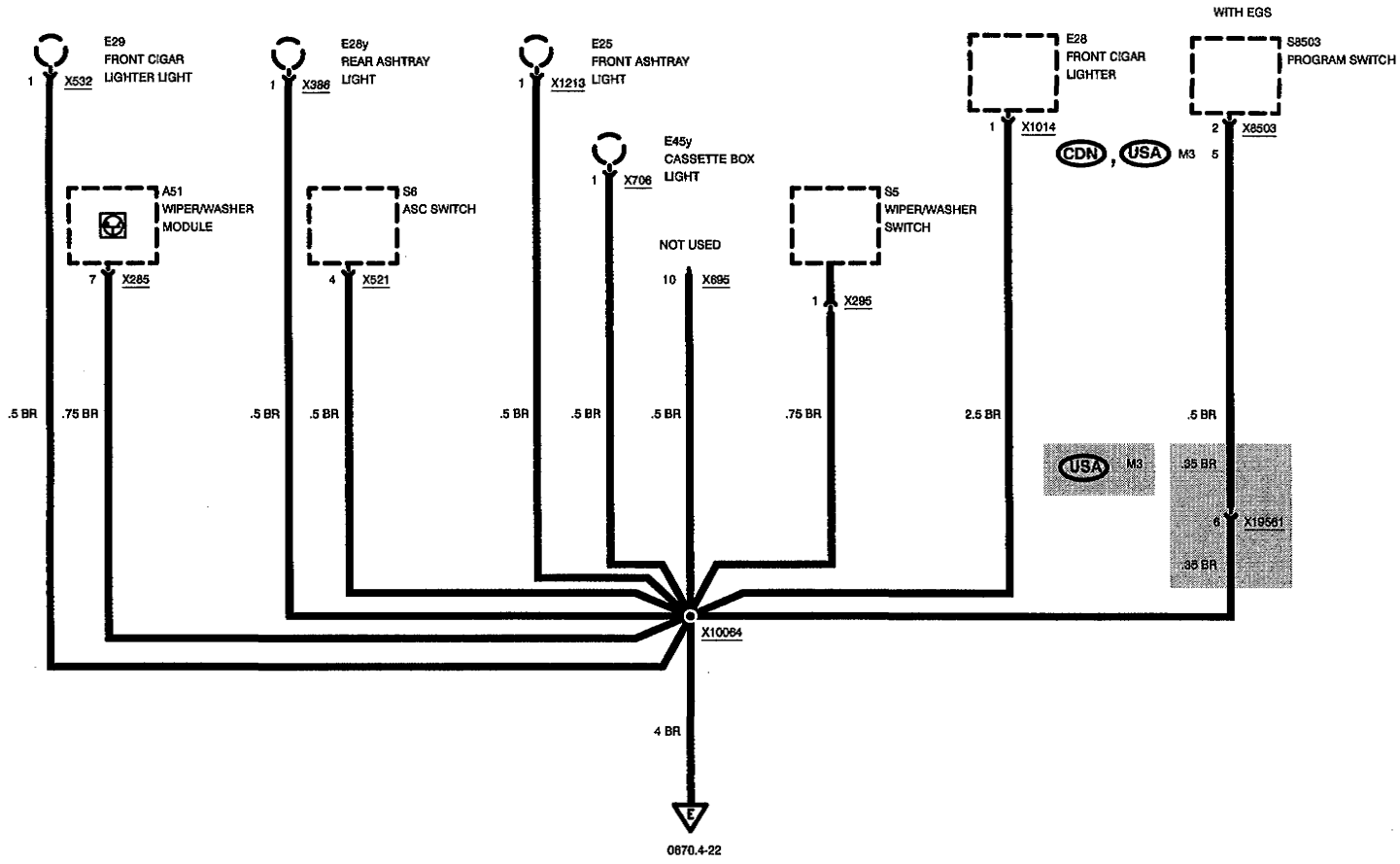
GROUND X10010



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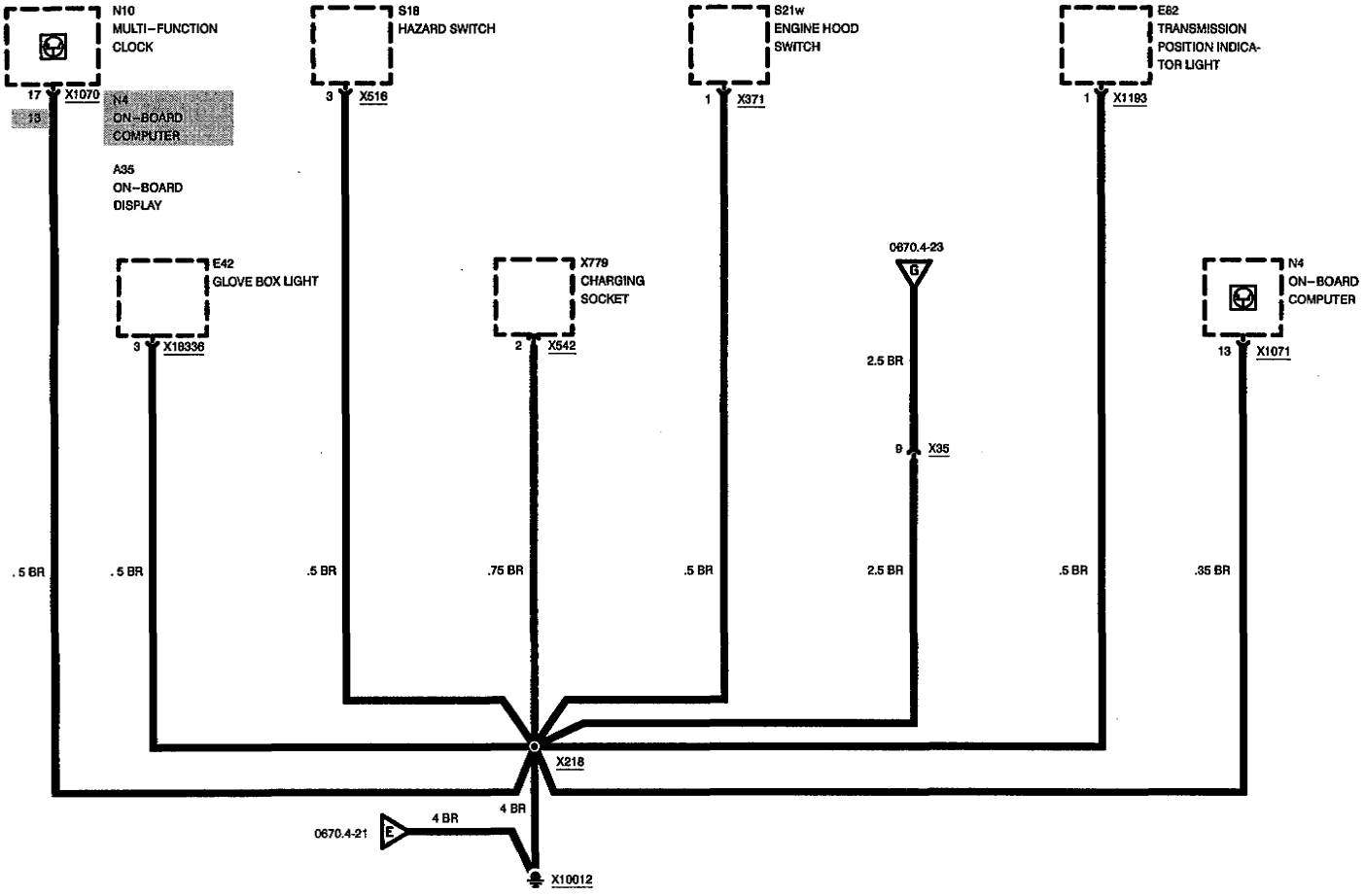
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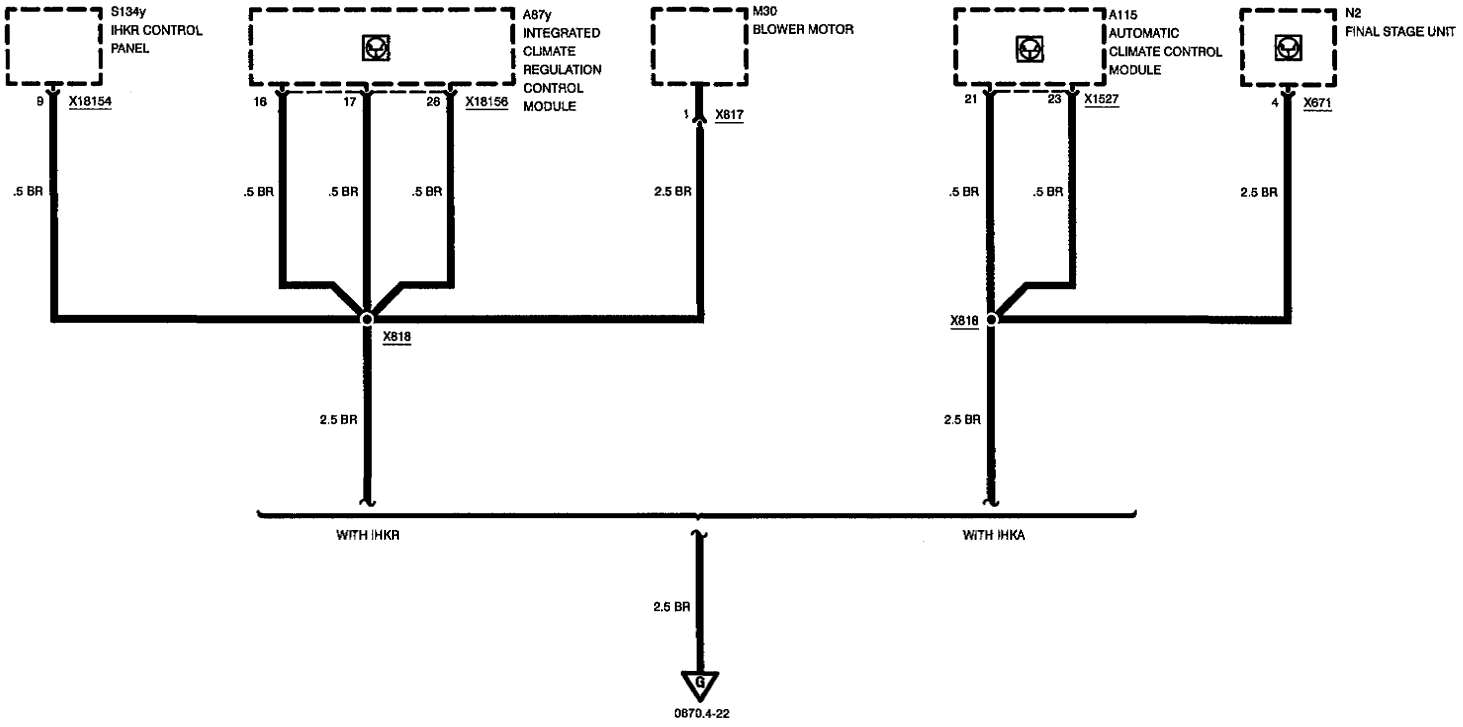
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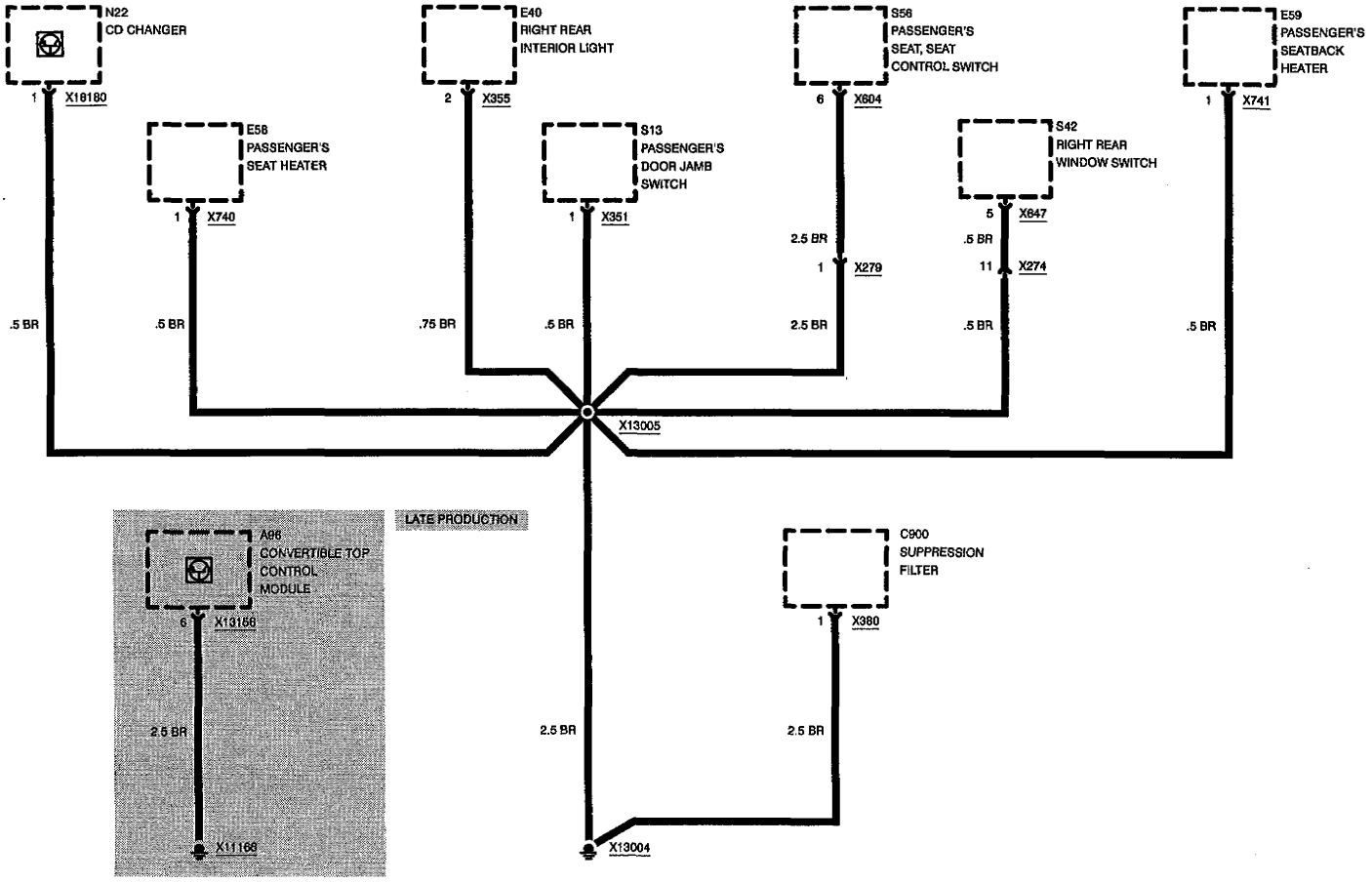


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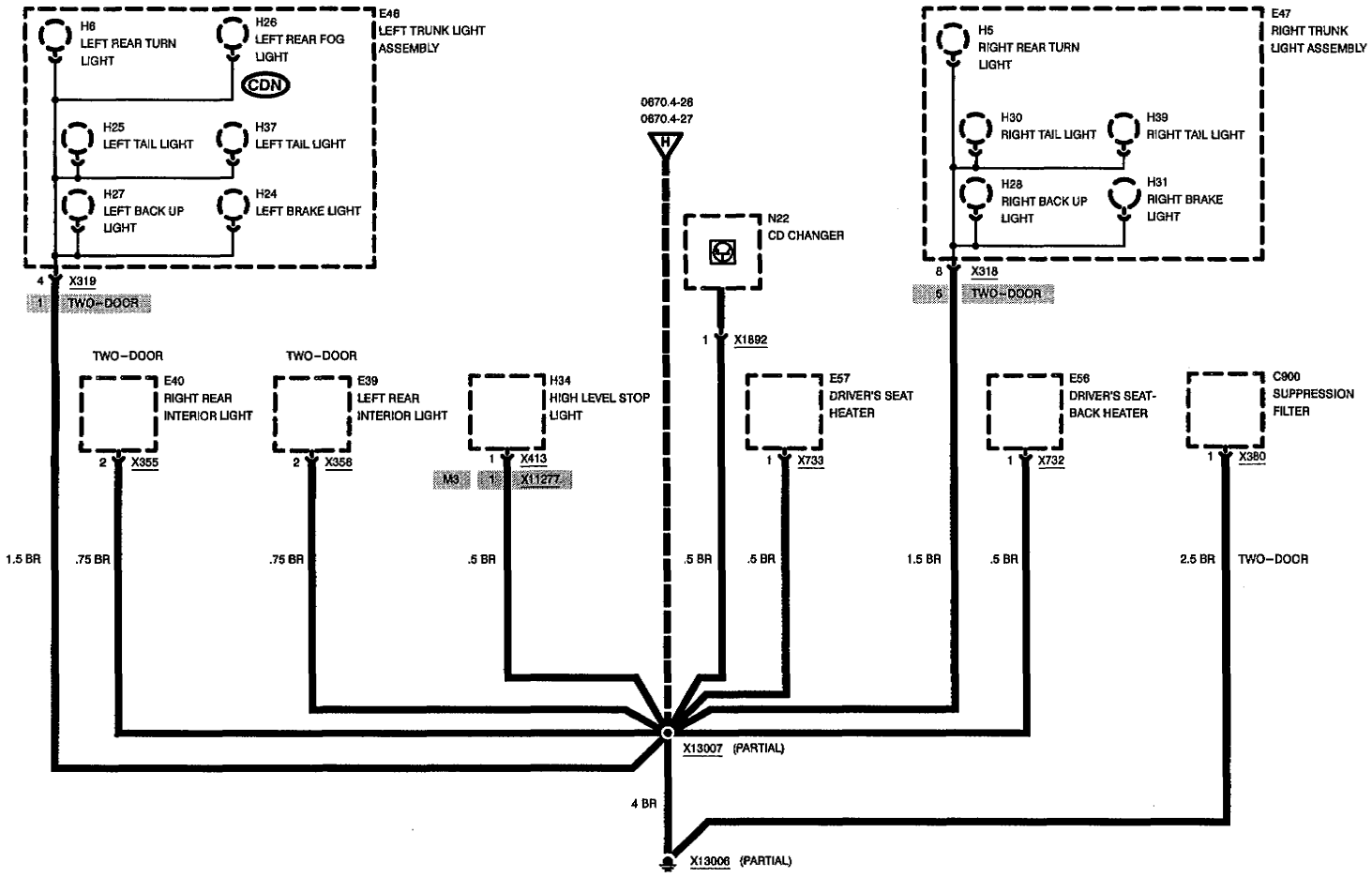
FOUR–DOOR



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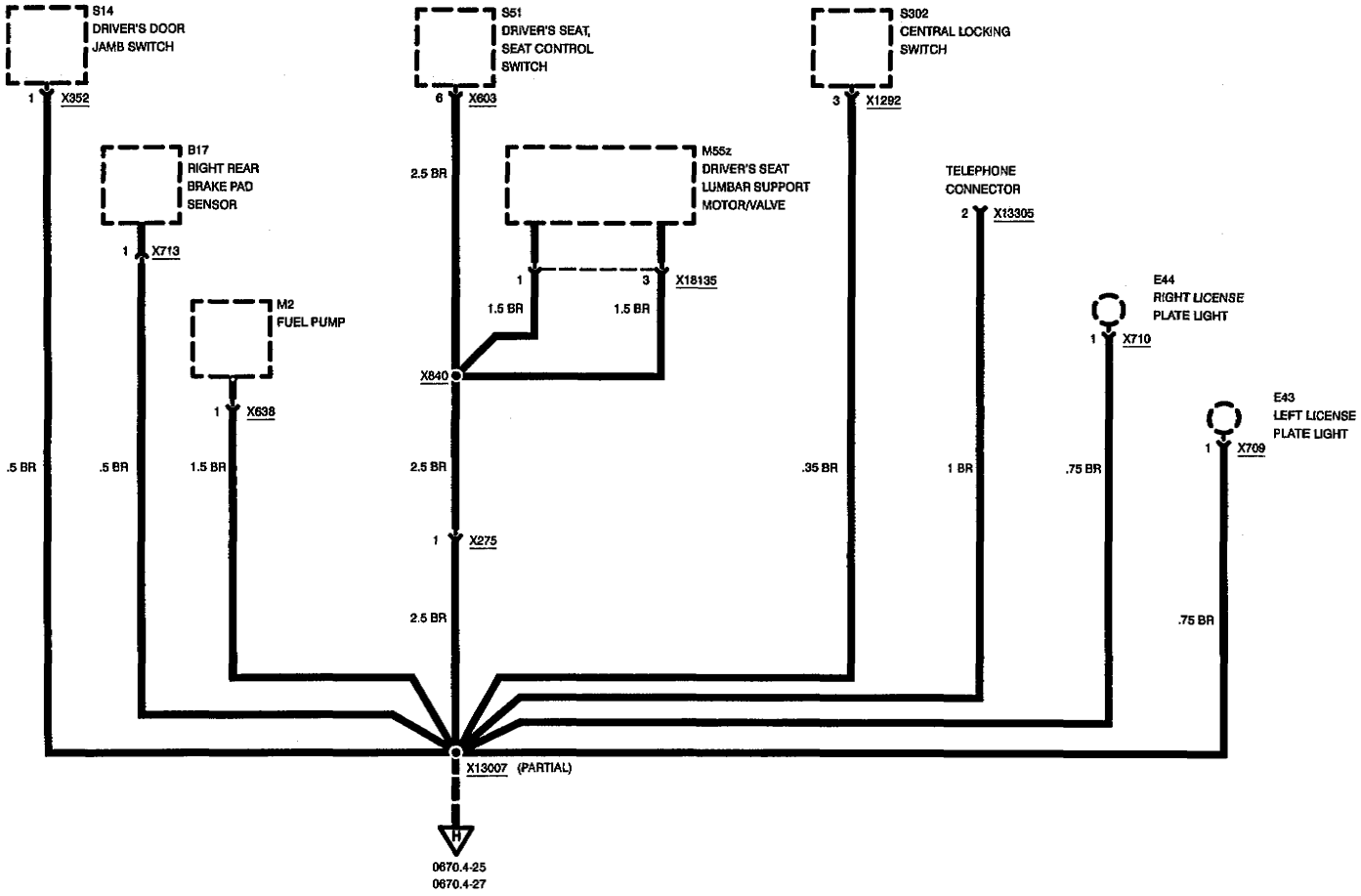
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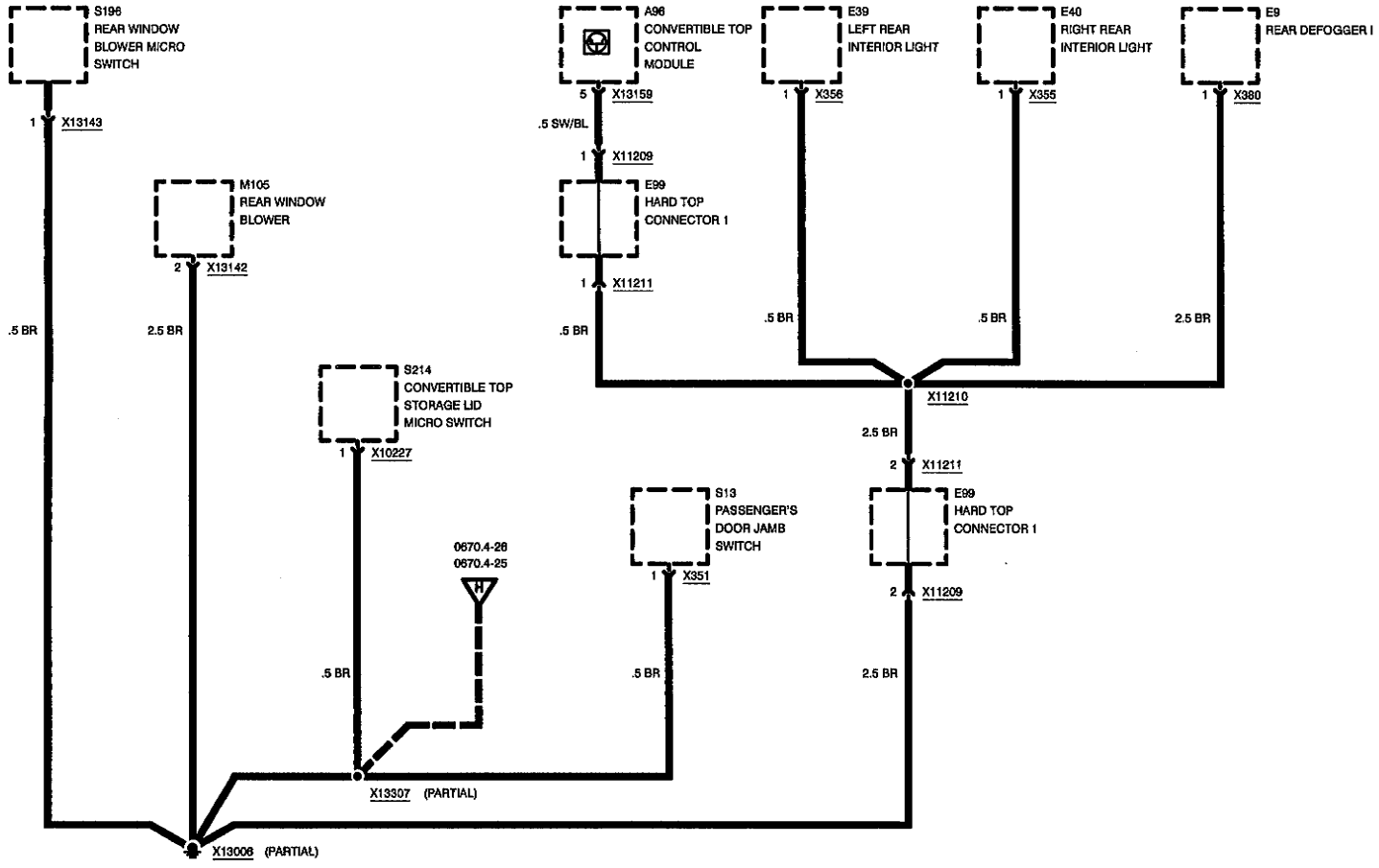


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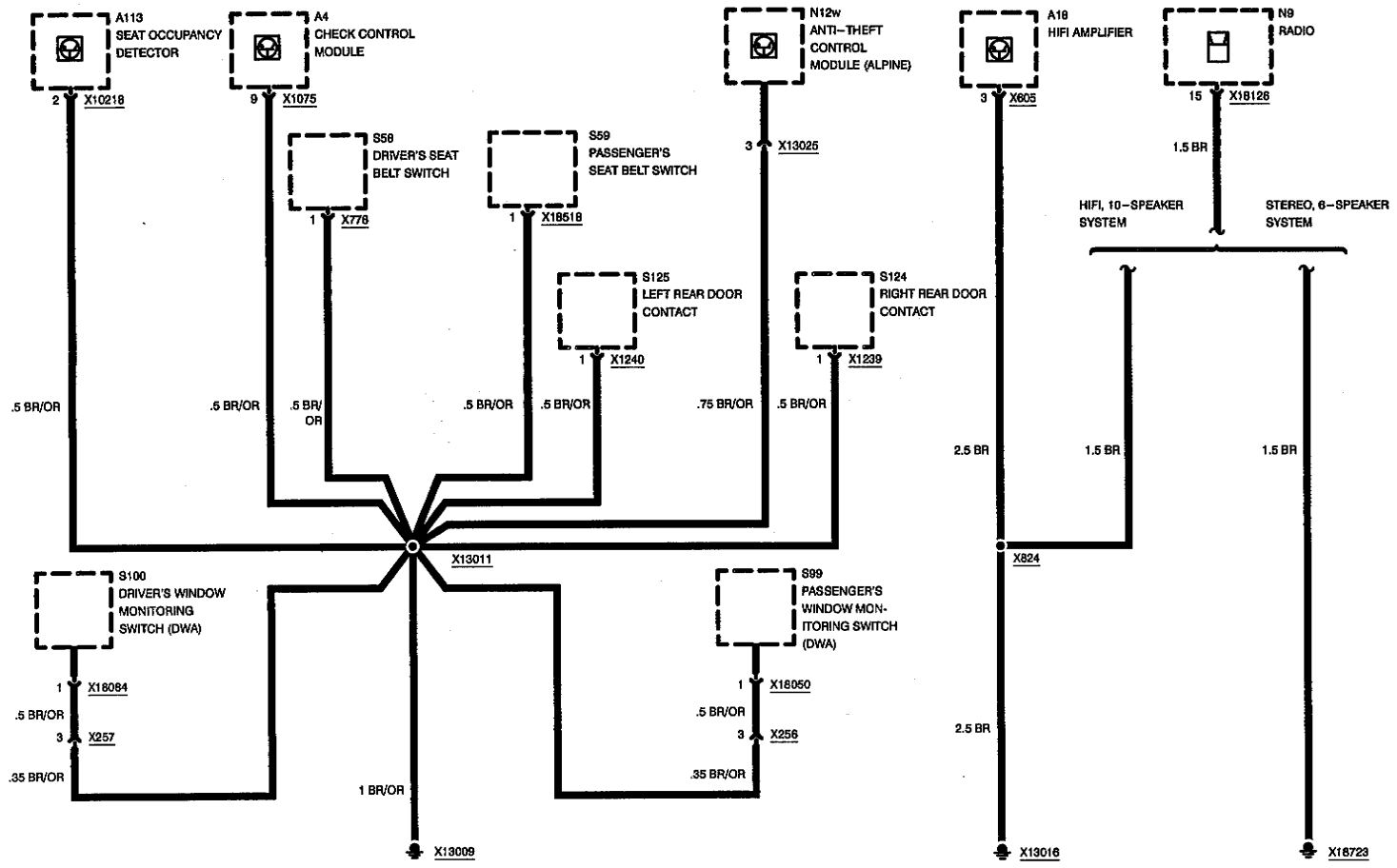
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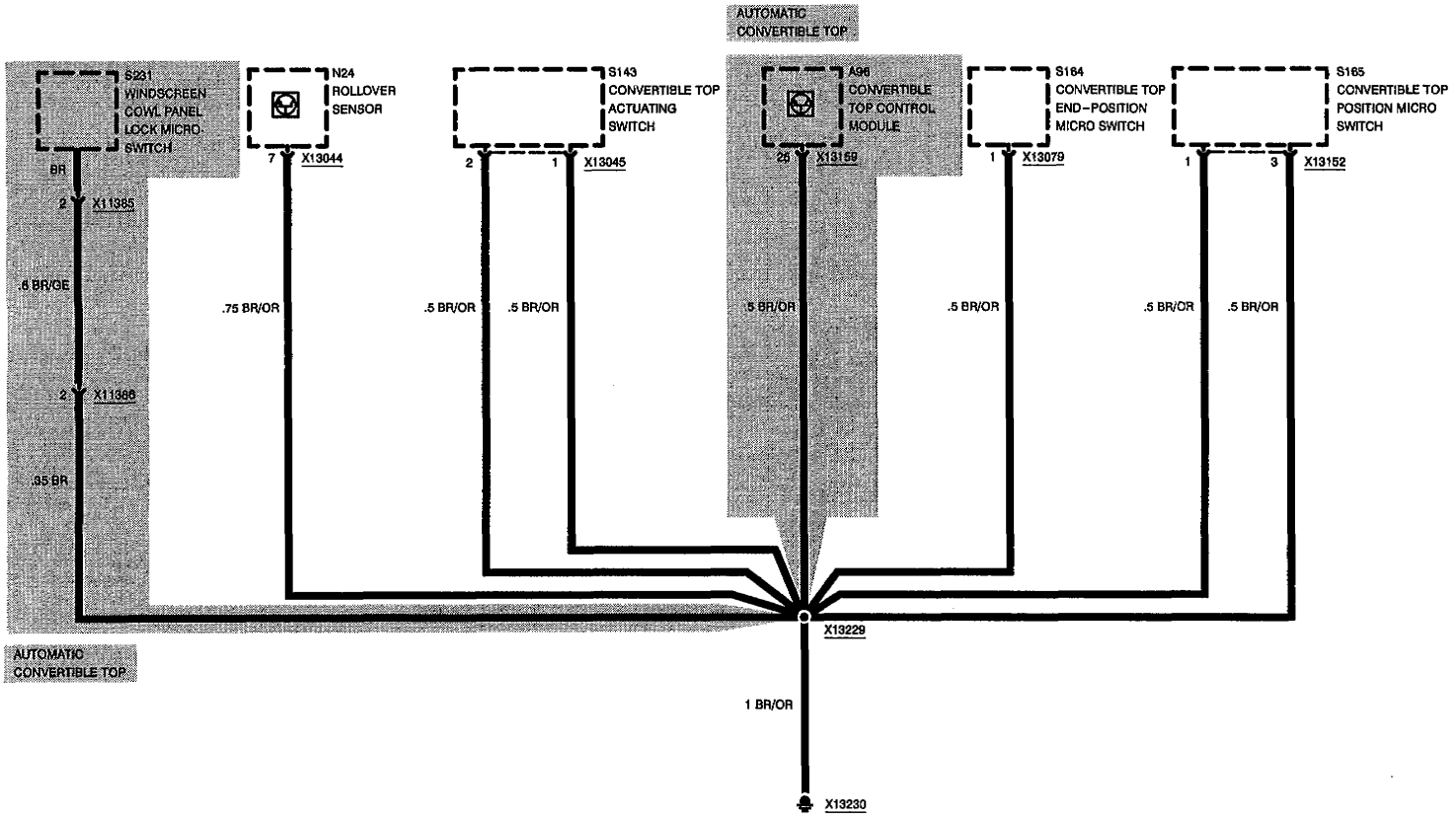
GROUNDS X13009, X13016, AND X18723



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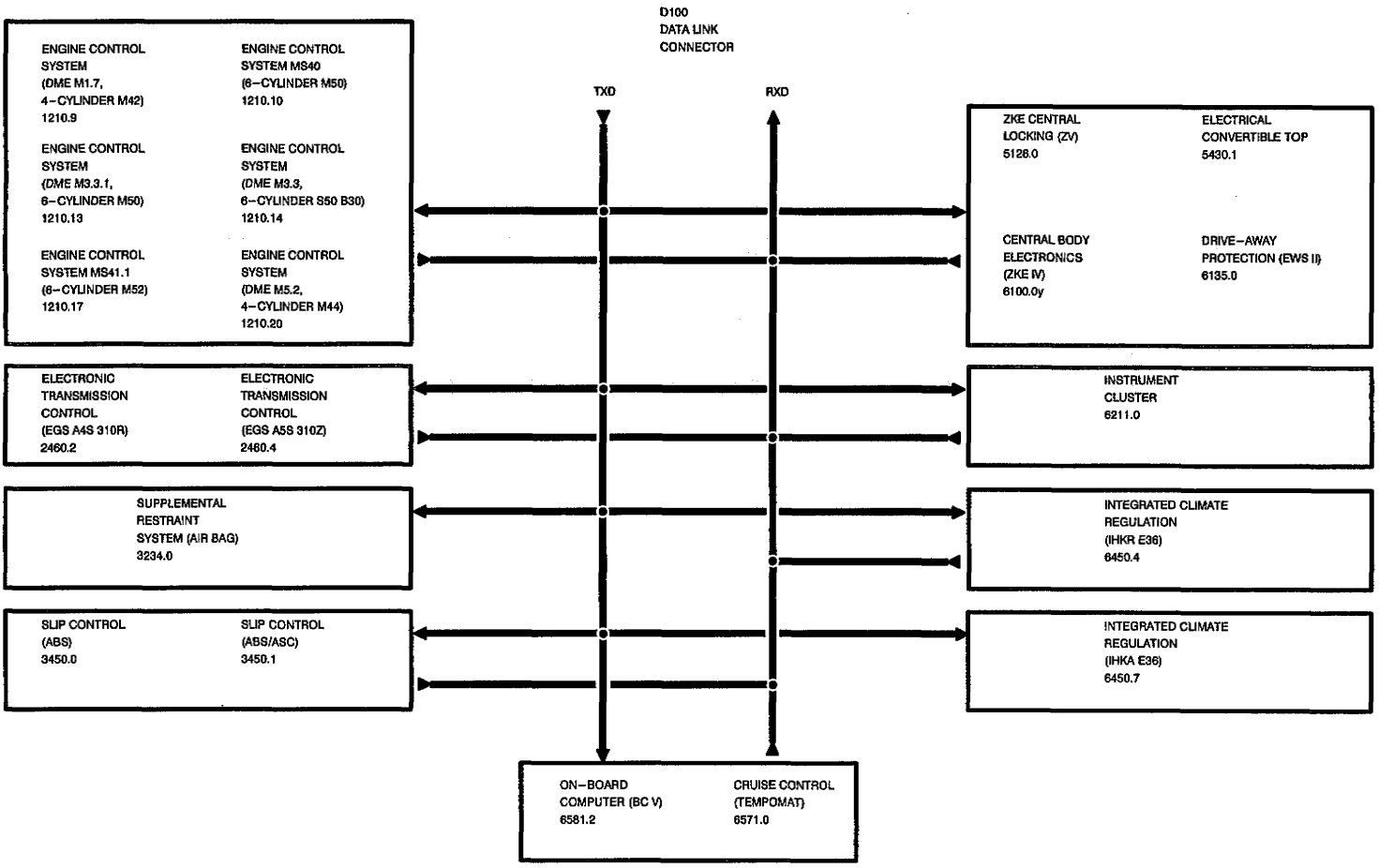
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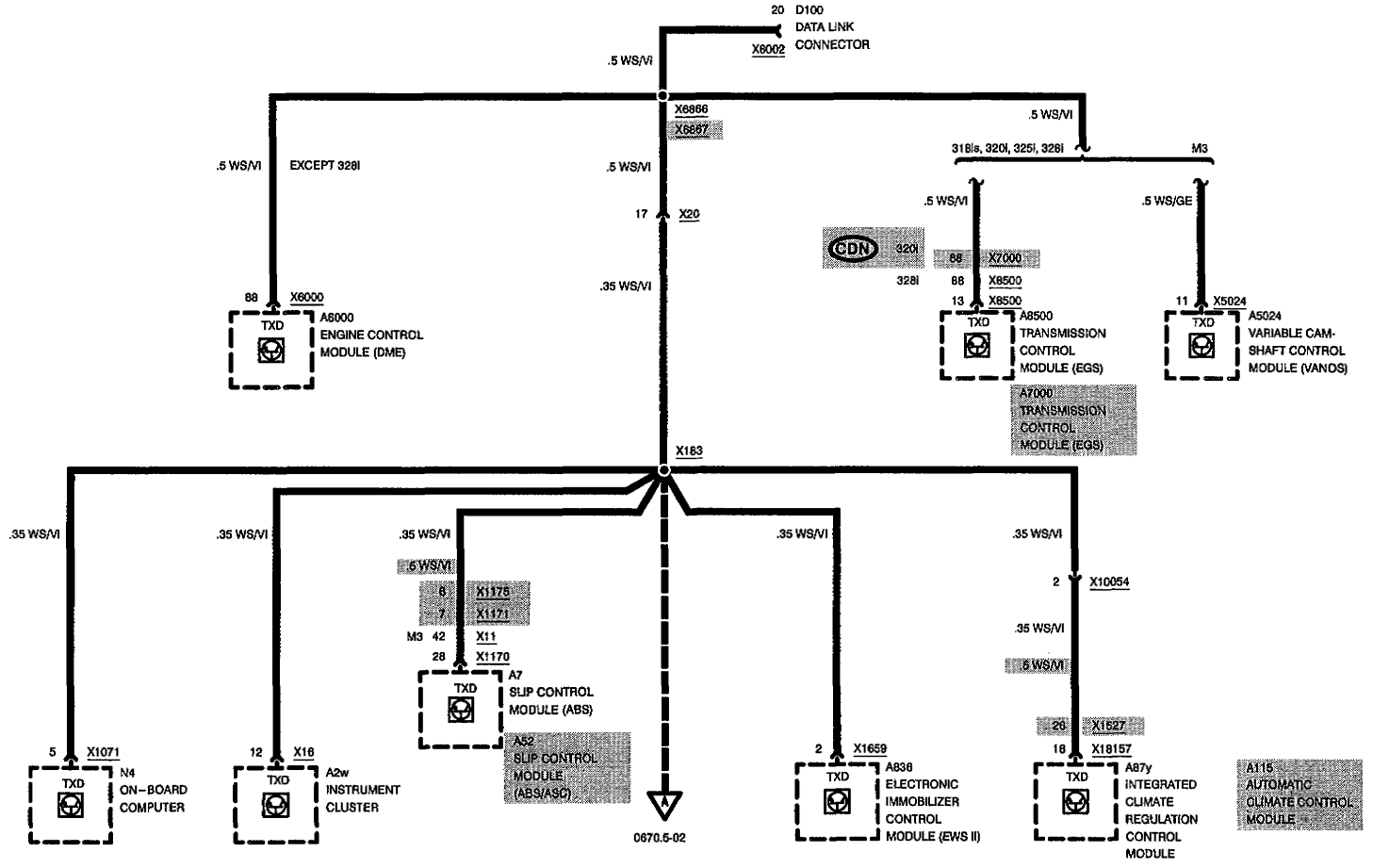
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BLOCK DIAGRAM



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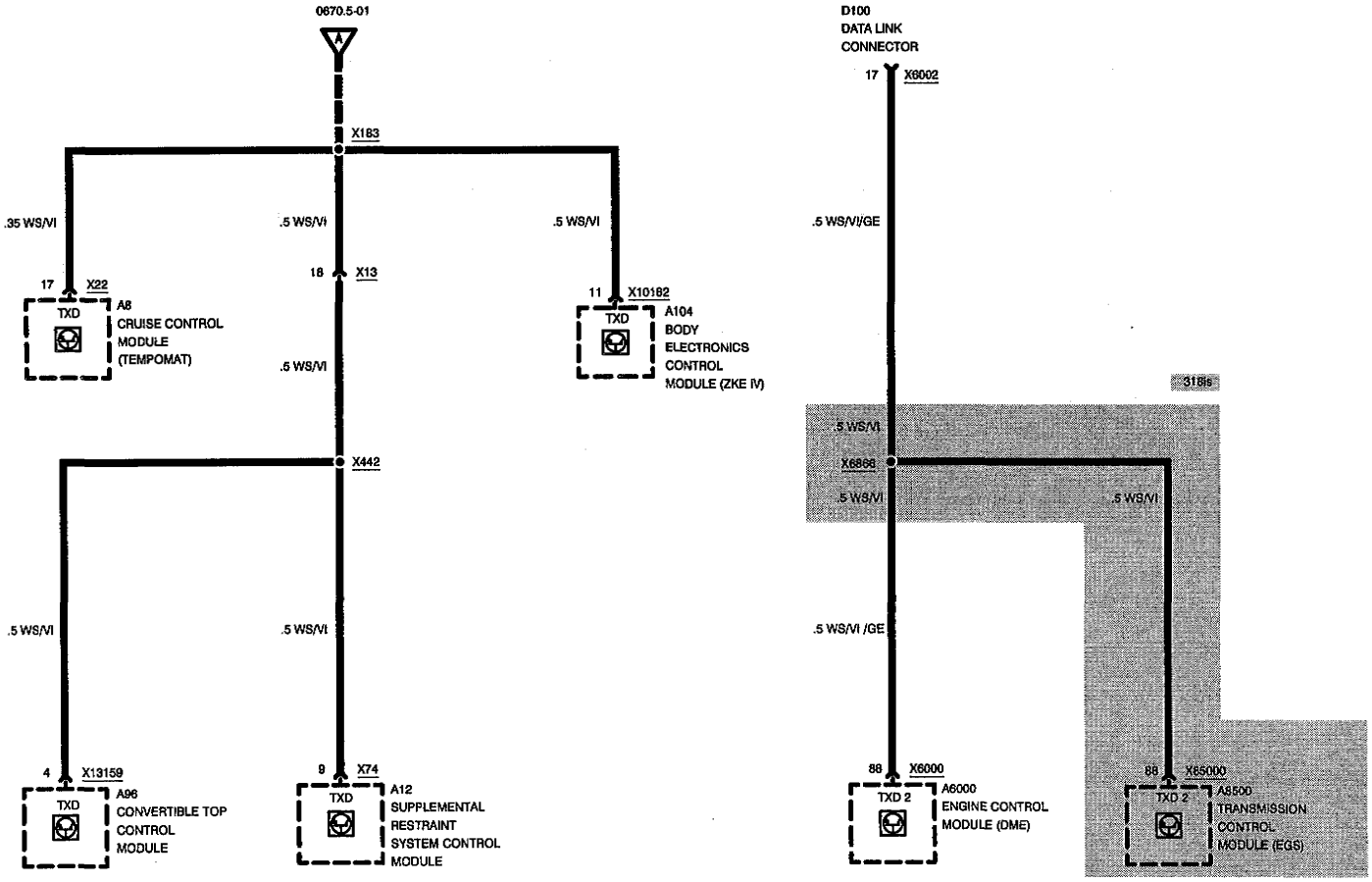
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TXD, PIN 20



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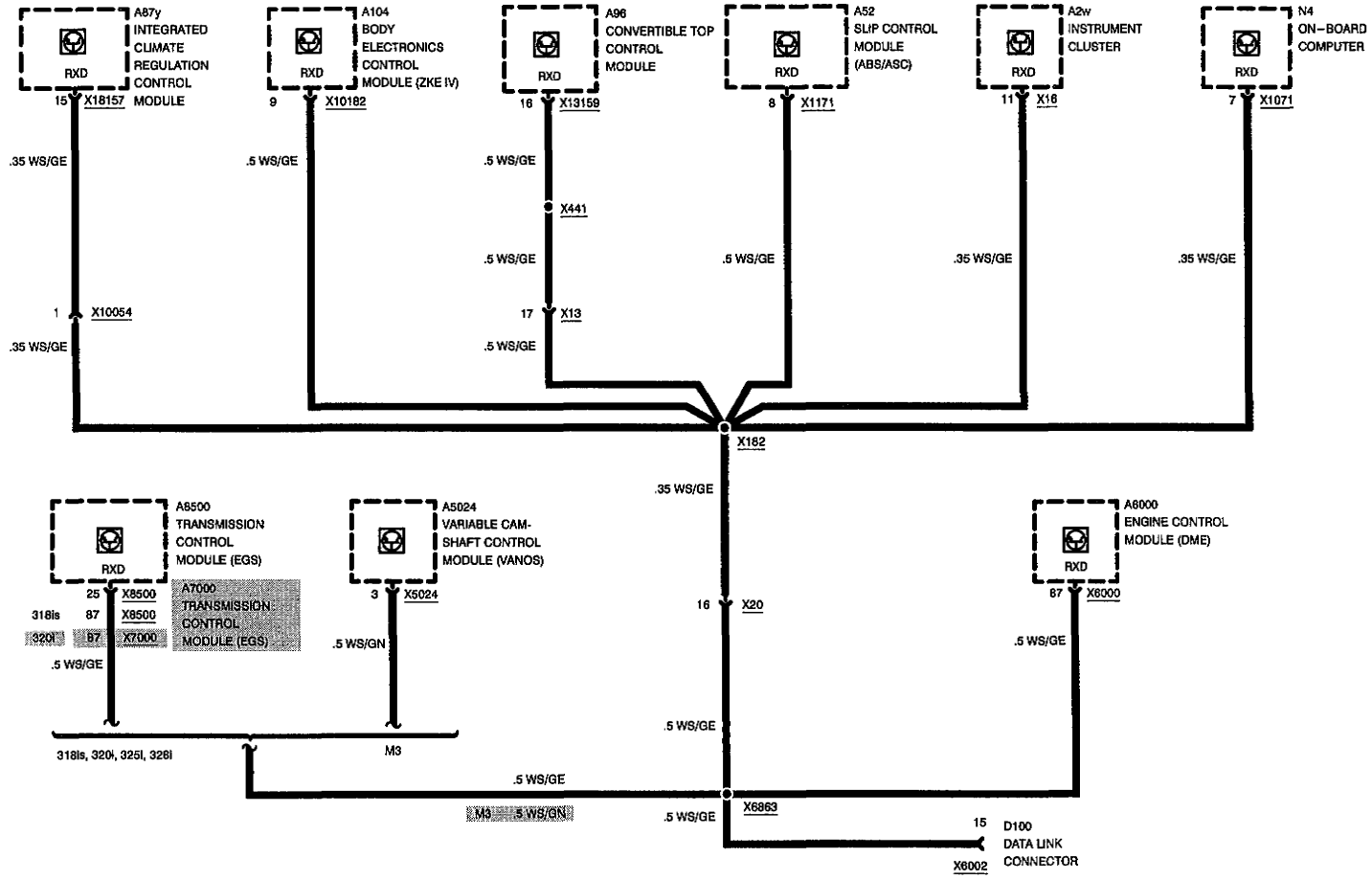
TXD, PIN 20 AND TXD 2, PIN 17



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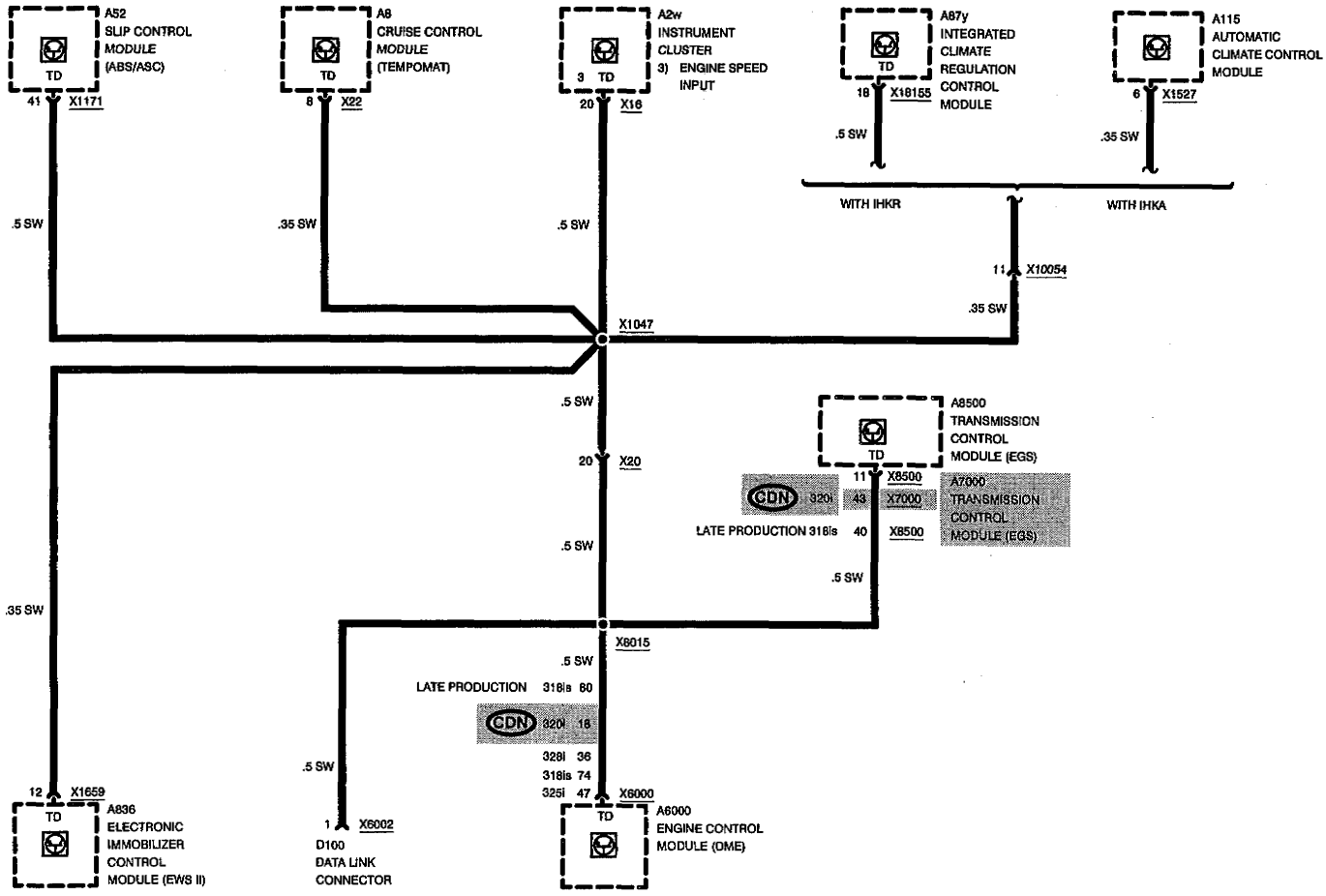
RXD, PIN 15



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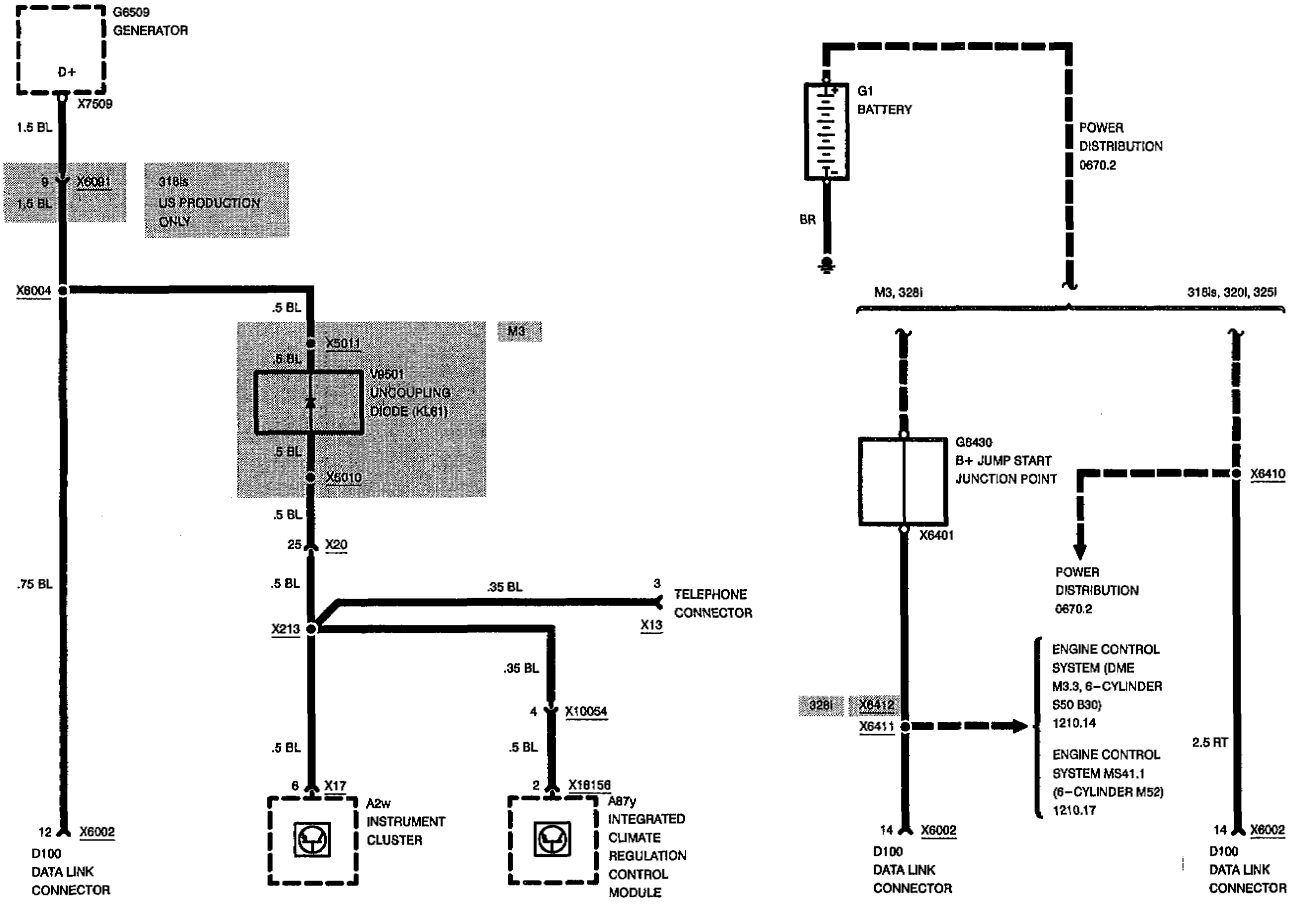
DATA LINK CONNECTOR, PIN 1



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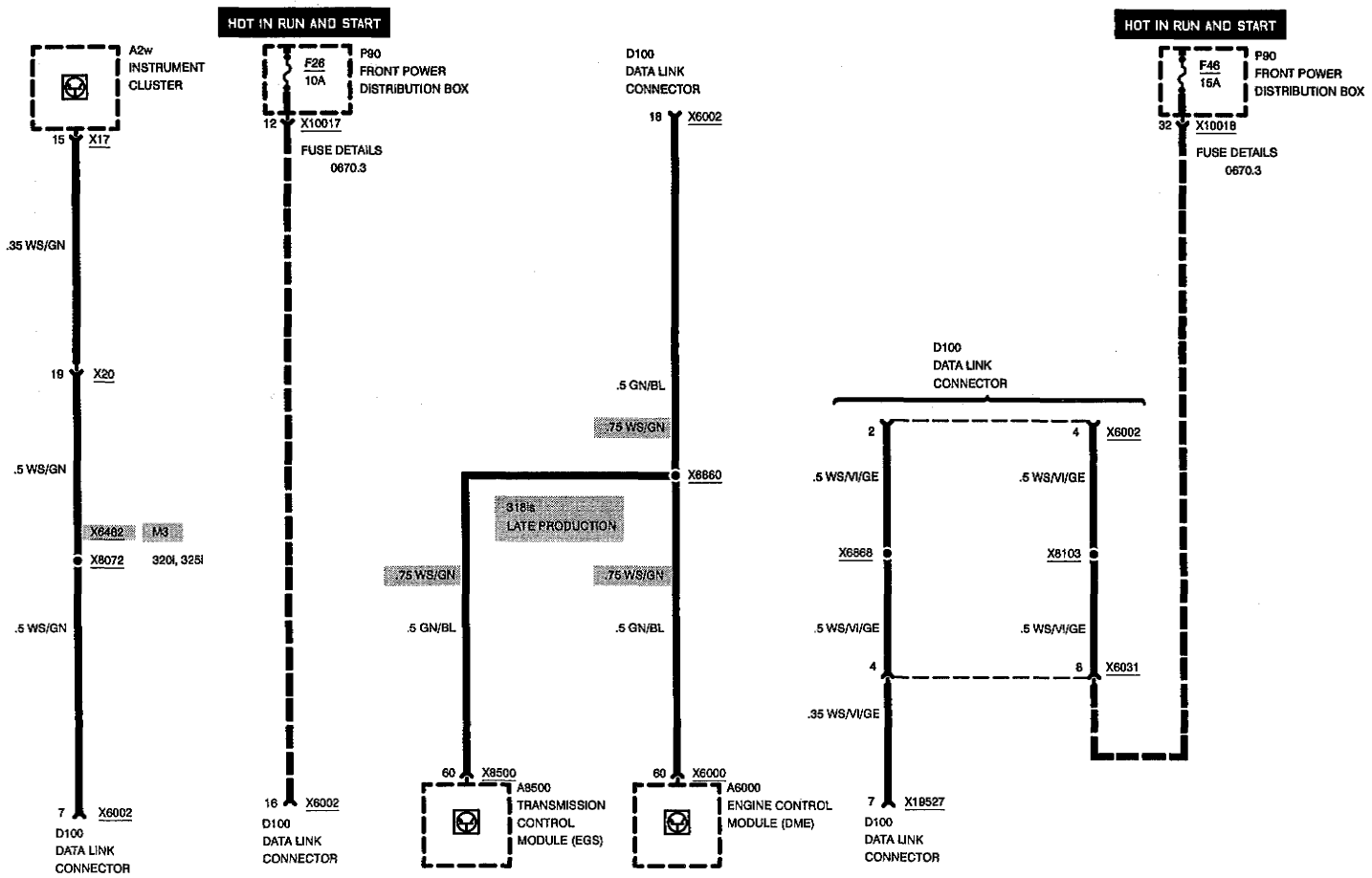
DATA LINK CONNECTOR, PINS 12 AND 14



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DATA LINK

DATA LINK CONNECTOR, PINS 2, 4, 7, 16, AND 18

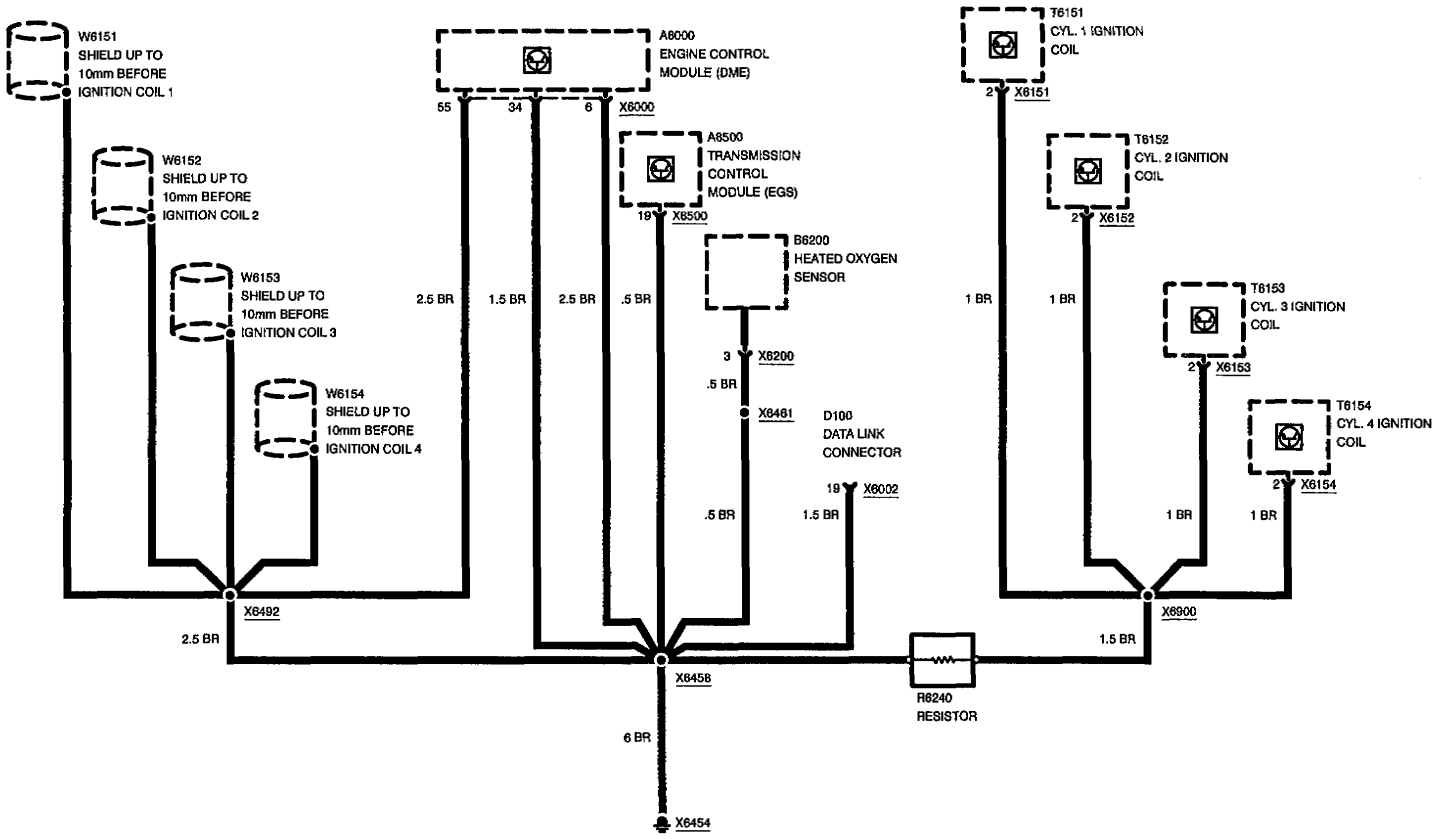


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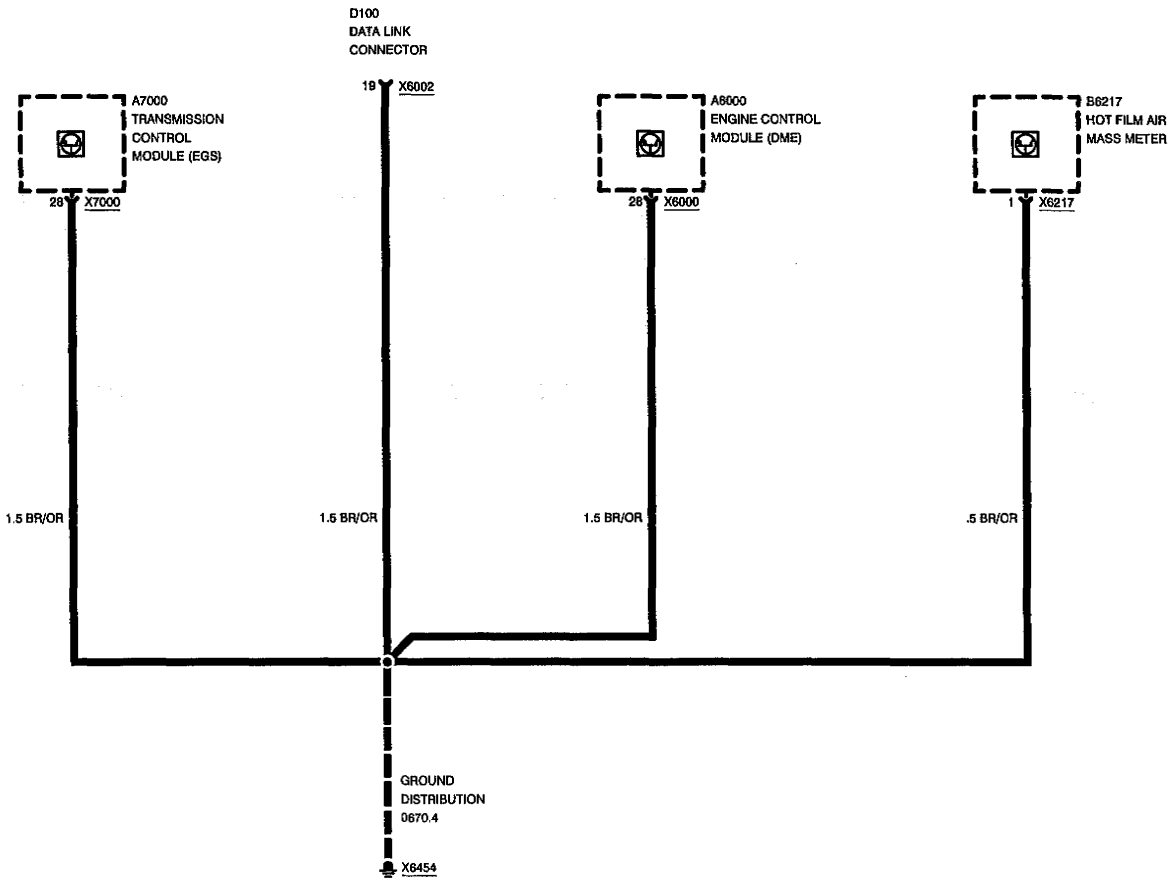
DATA LINK

318is

DATA LINK CONNECTOR, PIN 19



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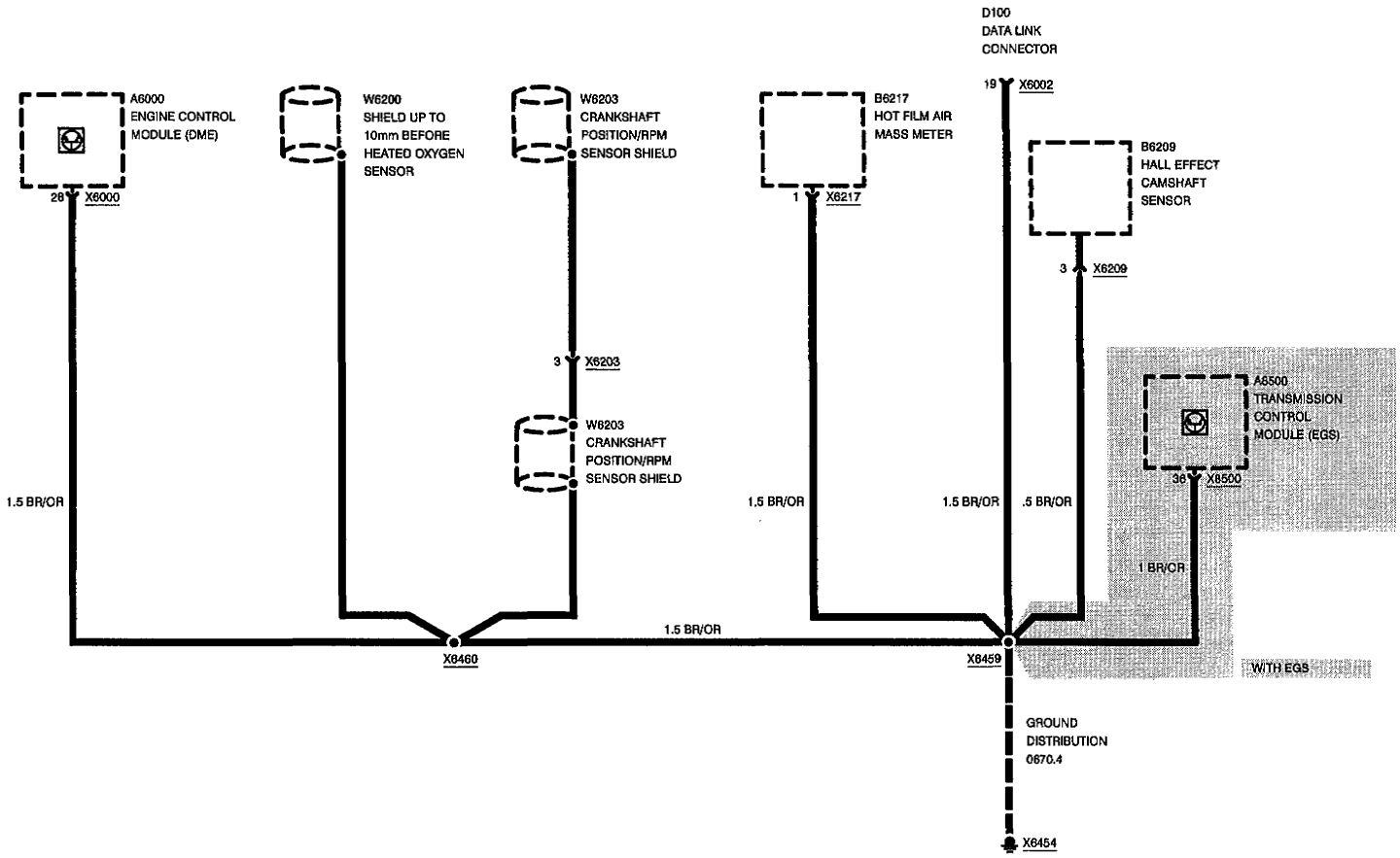


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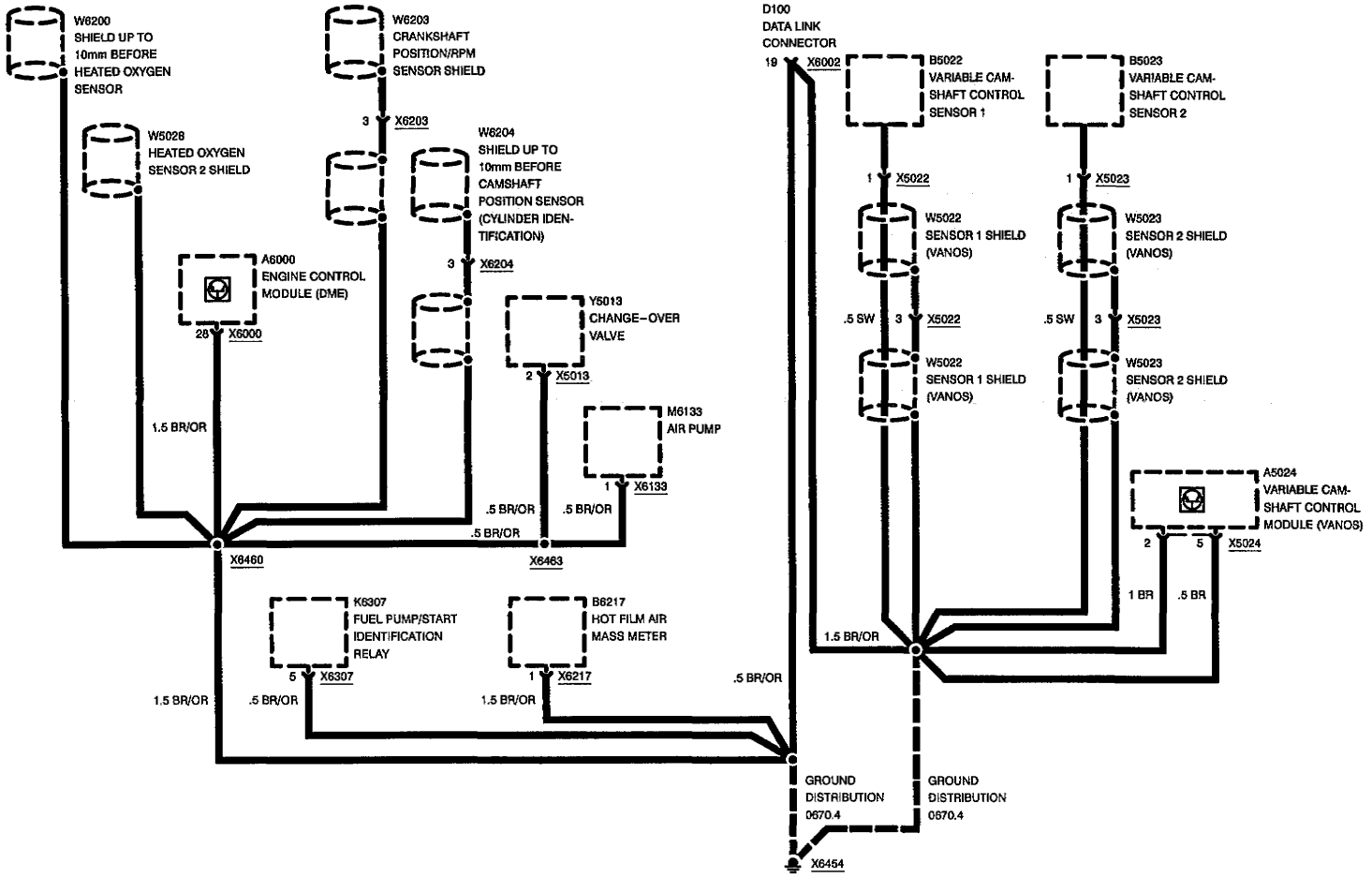
325i

DATA LINK CONNECTOR, PIN 19



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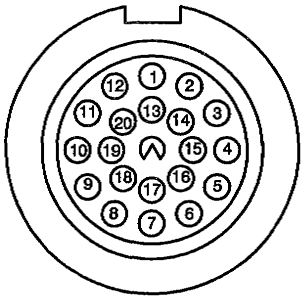
DATA LINK CONNECTOR, PIN 19



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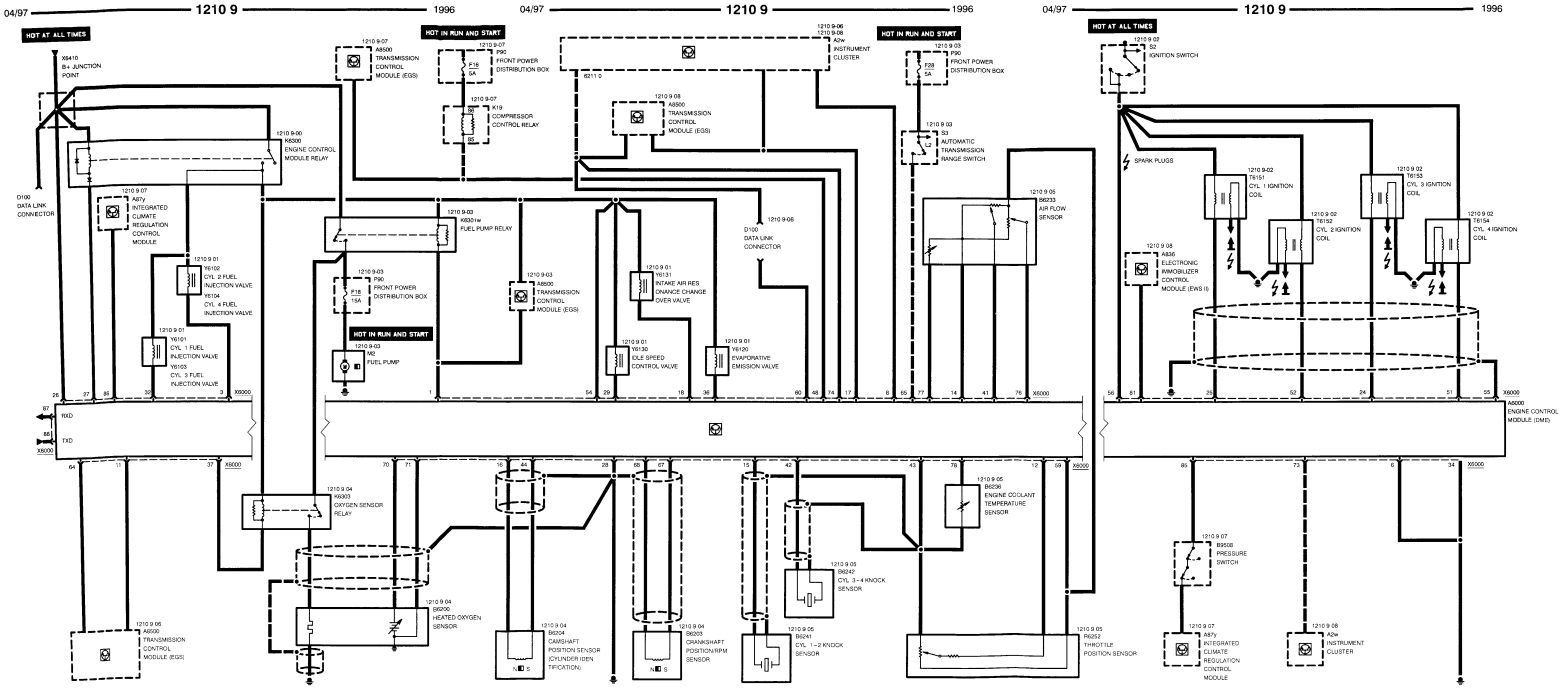
DATA LINK CONNECTOR (X6002)



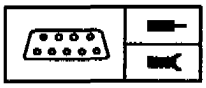
PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	–	ENGINE	SW
2		OBD II CONNECTOR	WS/VI/GE
3	–	NOT OCCUPIED	
4	R	FUSE 46 (328i)	SW/VI/GE
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	–	NOT OCCUPIED	
12	61(D+)	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	TXD 2	DIAGNOSTIC DATA LINK	WS/VI/GE
18	PGSP	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	GN/BL
19	31	GROUND	BR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI

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Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay, terminal 85
2		Not used	
3	A	Cyl. 2 and cyl. 4 fuel injection valve control	Cyl. 2 and cyl. 4 fuel injection valves
4		Not used	
5		Not used	
6	M	Ground, fuel injection valve output stages	Ground point
7		Not used	
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10		Not used	
11	A	DKV potentiometer signal	Transmission control module (EGS)
12	E	Throttle position	Throttle position sensor
13		Not used	
14	E	Volume air flow sensor	Volume air flow sensor
15	E	Cyl. 1-2 knock sensor	Cyl. 1-2 knock sensor
16	E	Camshaft position sensor (cylinder identification)	Camshaft position sensor (cylinder identification)
17	A	Ti-measurement signal (fuel consumption)	Instrument cluster
18	A	Intake air resonance changeover valve control	Intake air resonance changeover valve
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
25	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point

E = Input, A = Output, M = Ground

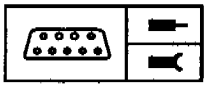
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Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Idle speed control valve control	Idle speed control valve
30		Not used	
31		Not used	
32	A	Cyl. 1 and cyl. 3 fuel injection valve control	Cyl. 1 and cyl. 3 fuel injection valves
33		Not used	
34	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37	A	Oxygen sensor heater control	Oxygen sensor relay, terminal 85
38		Not used	
39		Not used	
40		Not used	
41	E	Volume air flow sensor	Volume air flow sensor
42	E	Cyl. 3-4 knock sensor	Cyl. 3-4 knock sensor
43	M	Ground for sensors	Engine coolant temperature sensor, cyl. 1-2 knock sensor, cyl. 3-4 knock sensor, and throttle position sensor
44	E	Camshaft position sensor (cylinder indentification)	Camshaft position sensor (cylinder indentification)
45		Not used	
46		Not used	
47		Not used	
48	A	A/C compressor cut-out	Compressor control relay, terminal 85
49		Not used	
50		Not used	
51	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
52	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87a
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch, terminal 15
57		Not used	

E = Input, A = Output, M = Ground

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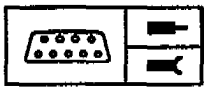


Pin Assignments

Pin	Type	Description/Function	Connection
58		Not used	
59	A	5V component supply	Throttle position sensor and volume air flow sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64	E	Ignition timing intervention	Transmission control module (EGS)
65	E	Drive range P/N	Automatic transmission range switch
66		Not used	
67	E	Crankshaft position/RPM sensor	Crankshaft position/RPM sensor
68	E	Crankshaft position/RPM sensor	Crankshaft position/RPM sensor
69		Not used	
70	E	Oxygen sensor signal	Heated oxygen sensor
71	M	Oxygen sensor signal ground	Heated oxygen sensor
72		Not used	
73	E	Vehicle speed signal	Instrument cluster
74	A	Crankshaft RPM speed signal TD	Instrument cluster
75		Not used	
76	E	Volume air flow sensor	Volume air flow sensor
77	E	Volume air flow sensor	Volume air flow sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81	E	Drive-away protection signal (code)	Electronic immobilizer control module (EWS II)
82		Not used	
83		Not used	
84		Not used	
85	E	A/C pressure	Pressure switch
86	A	Auxiliary ventilation signal	Integrated climate regulation control module

E = Input, A = Output, M = Ground

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Pin Assignments

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

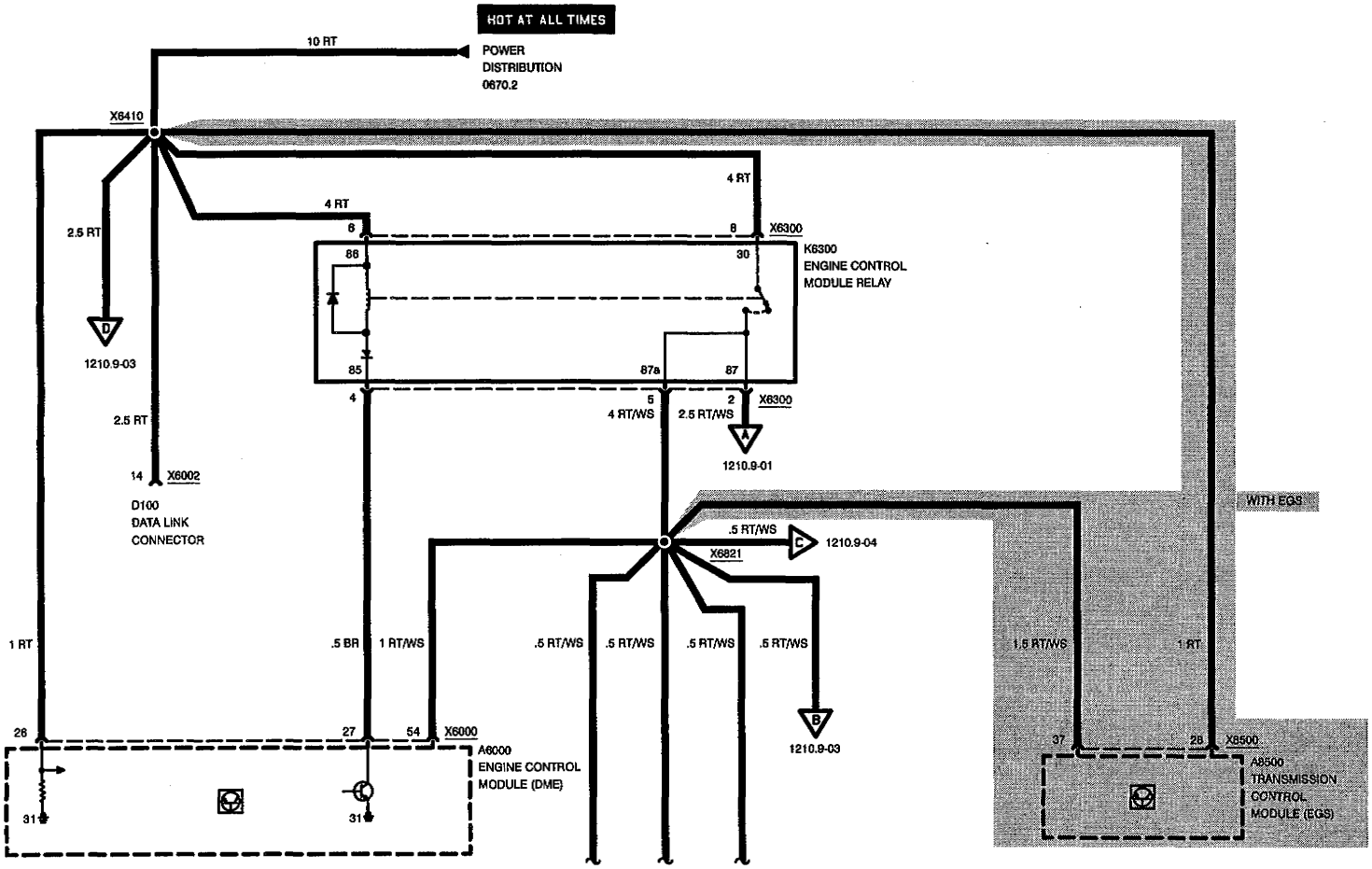
E = Input, A = Output, M = Ground

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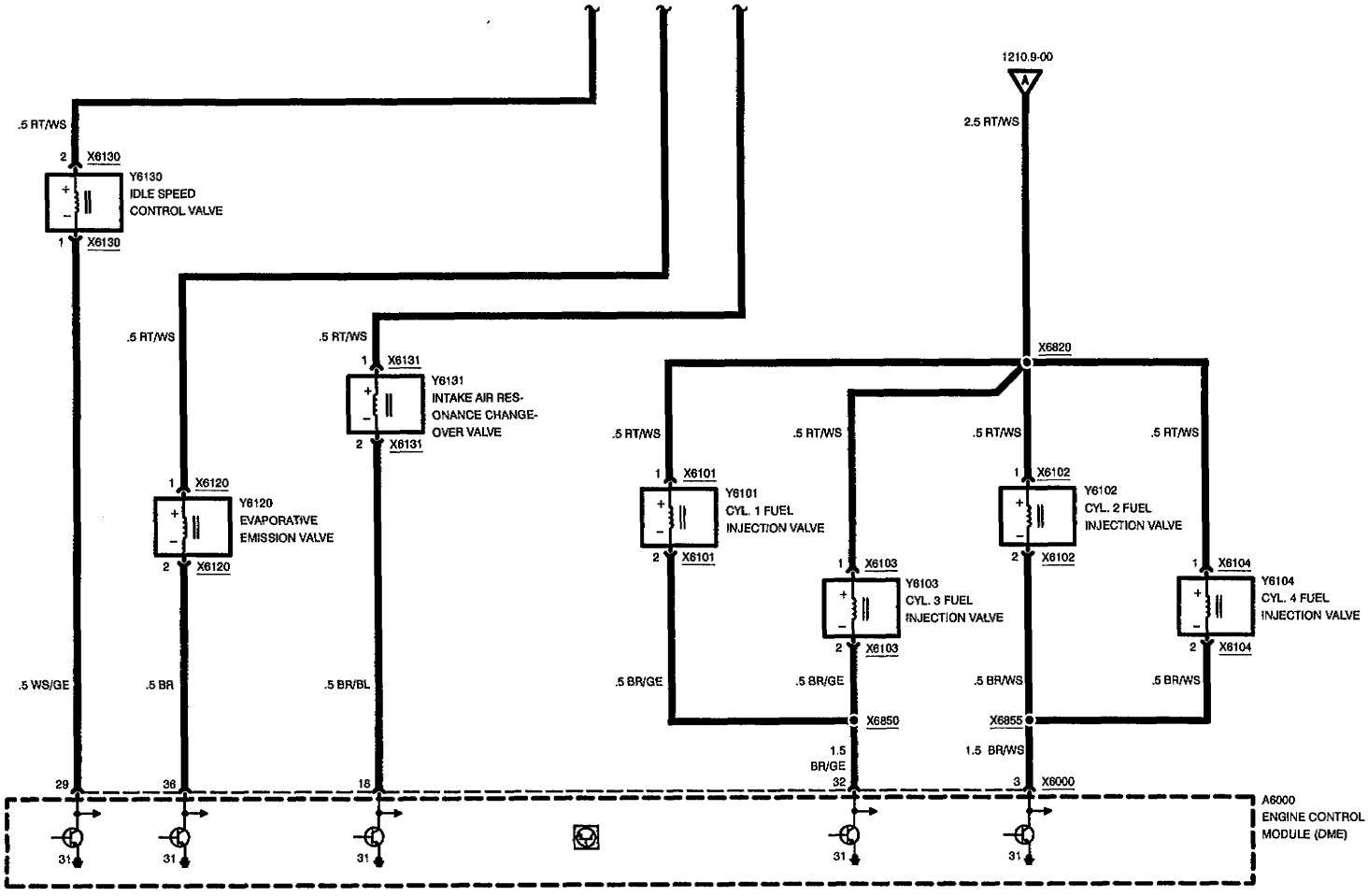
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ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

POWER, FUEL INJECTION VALVES



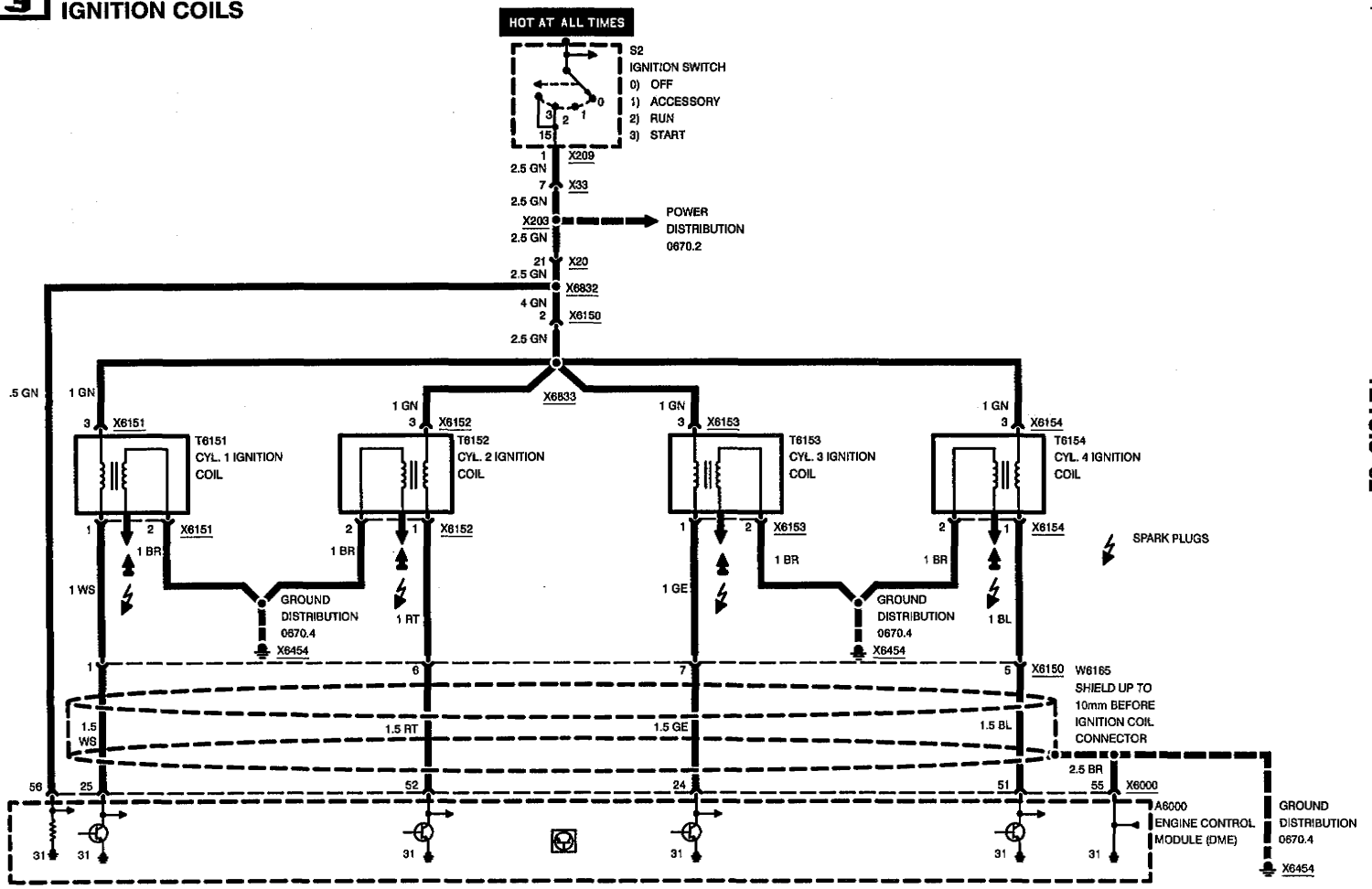
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ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

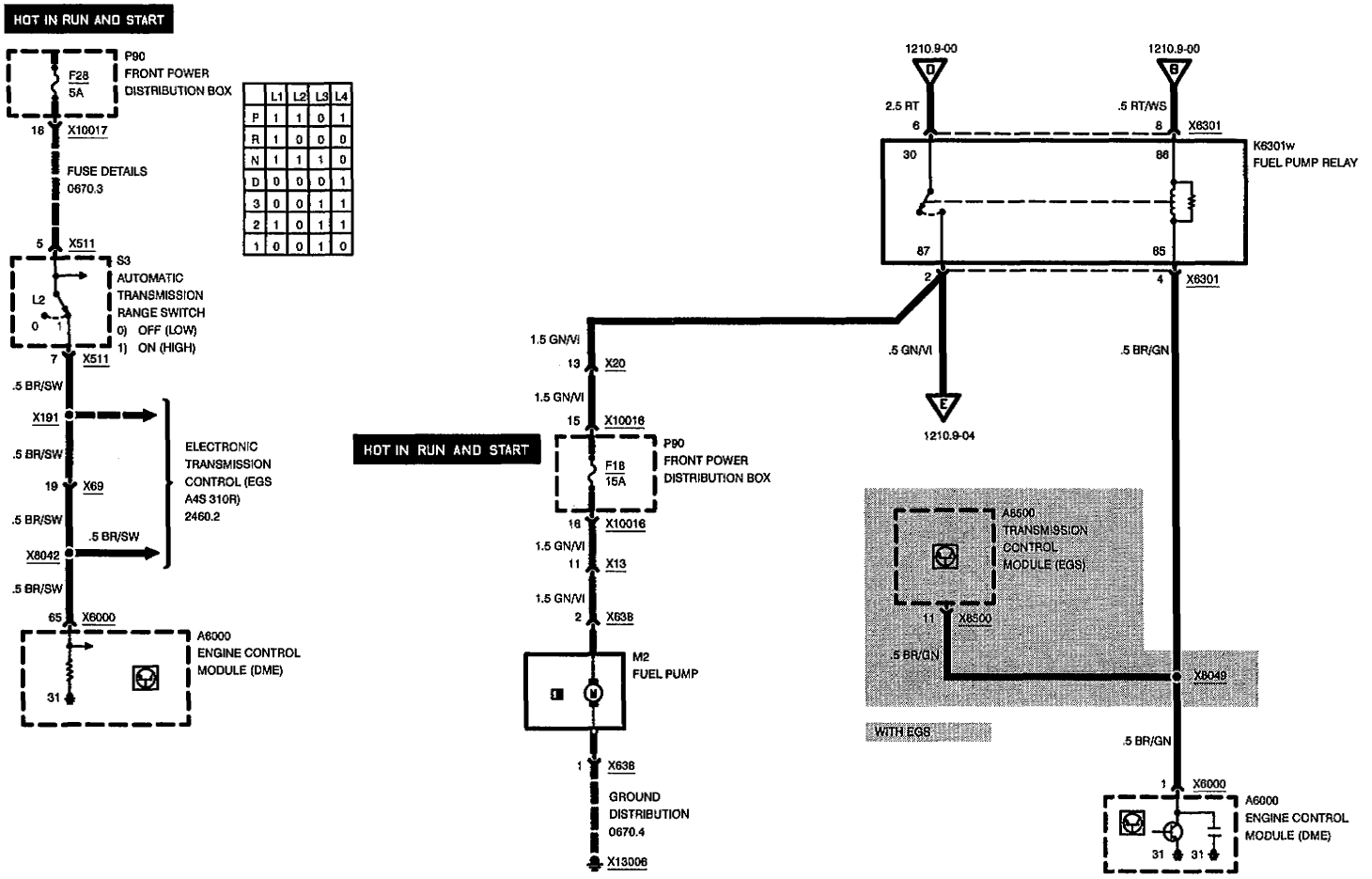
IGNITION COILS



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ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

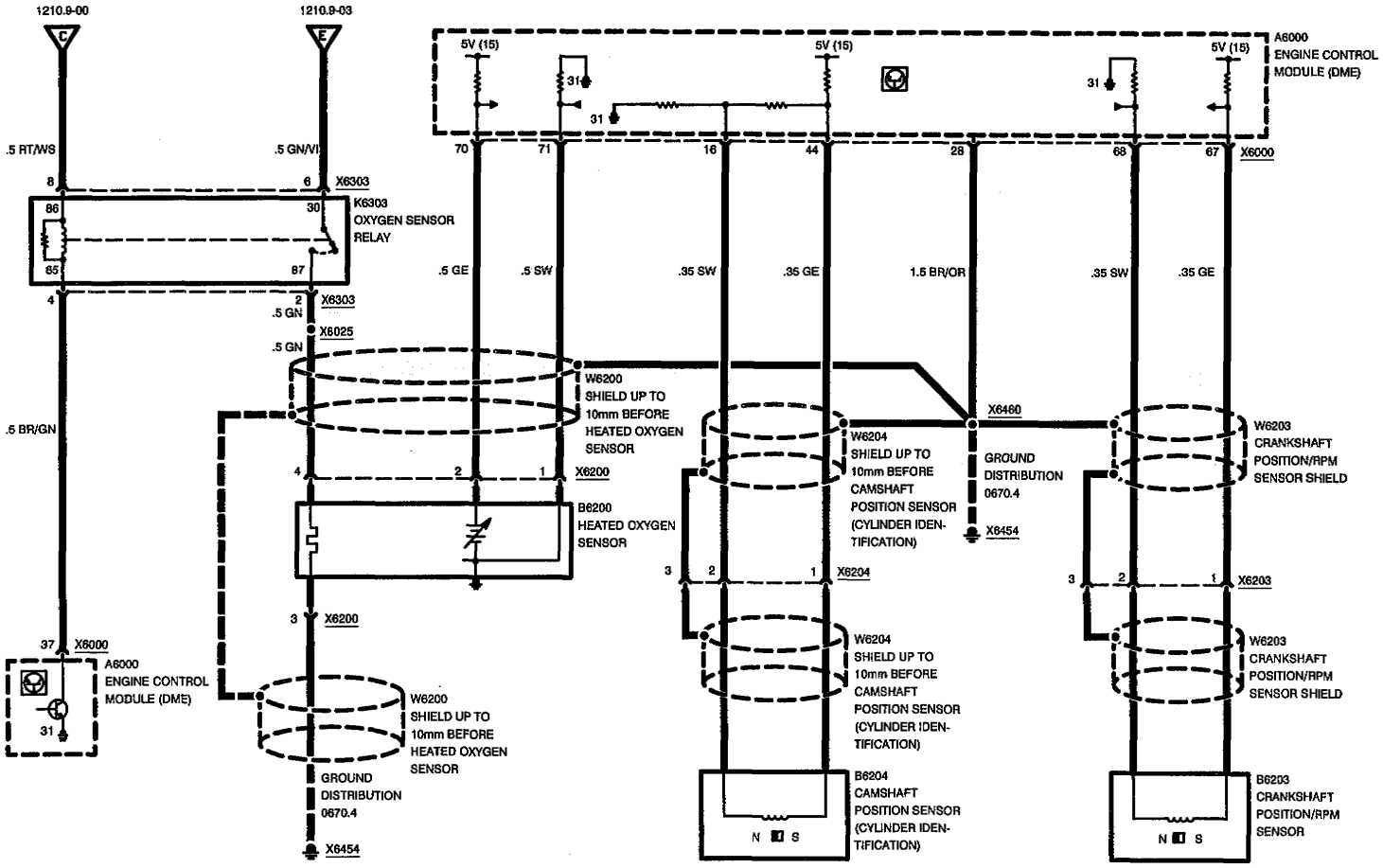
FUEL PUMP



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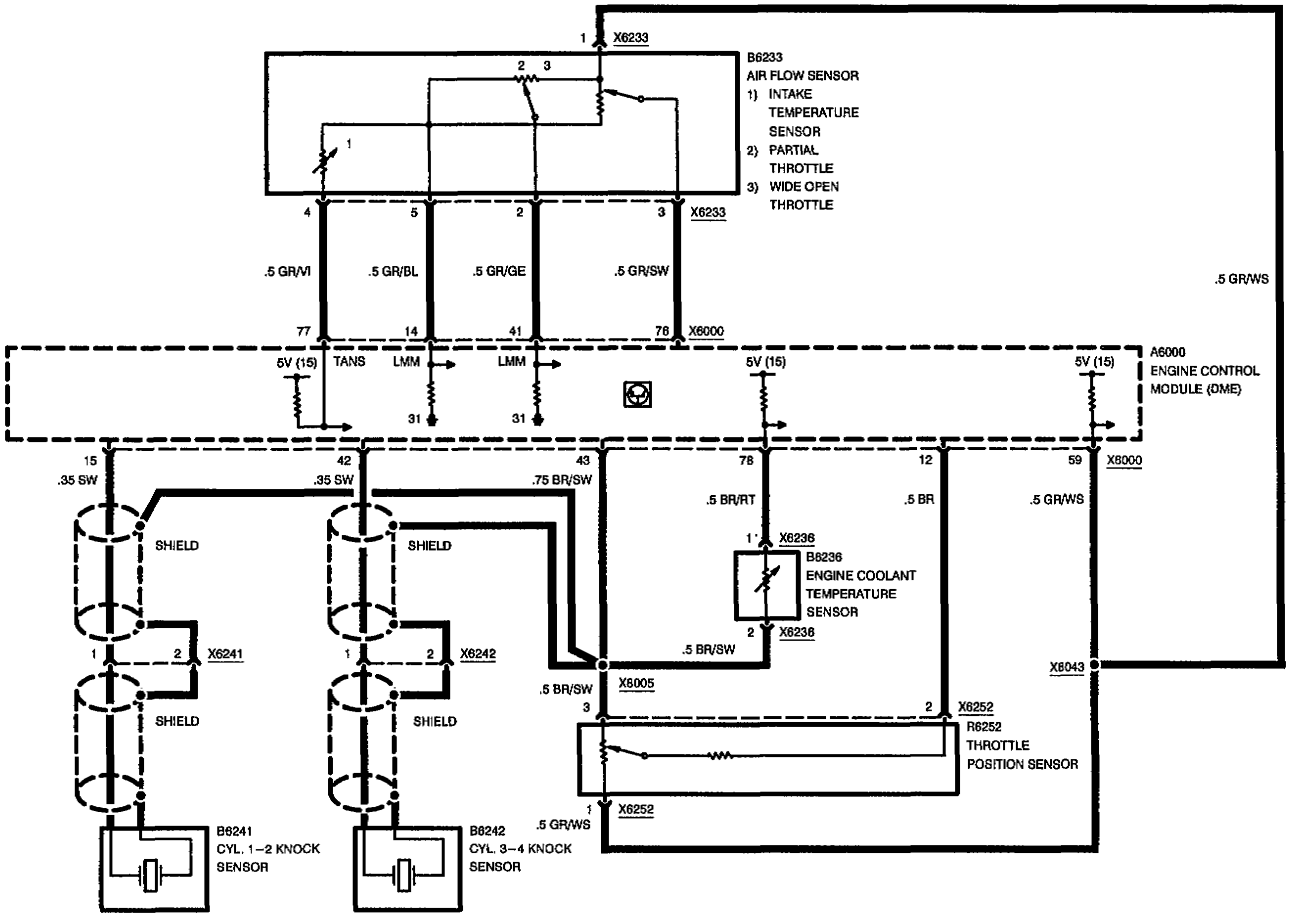
ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS



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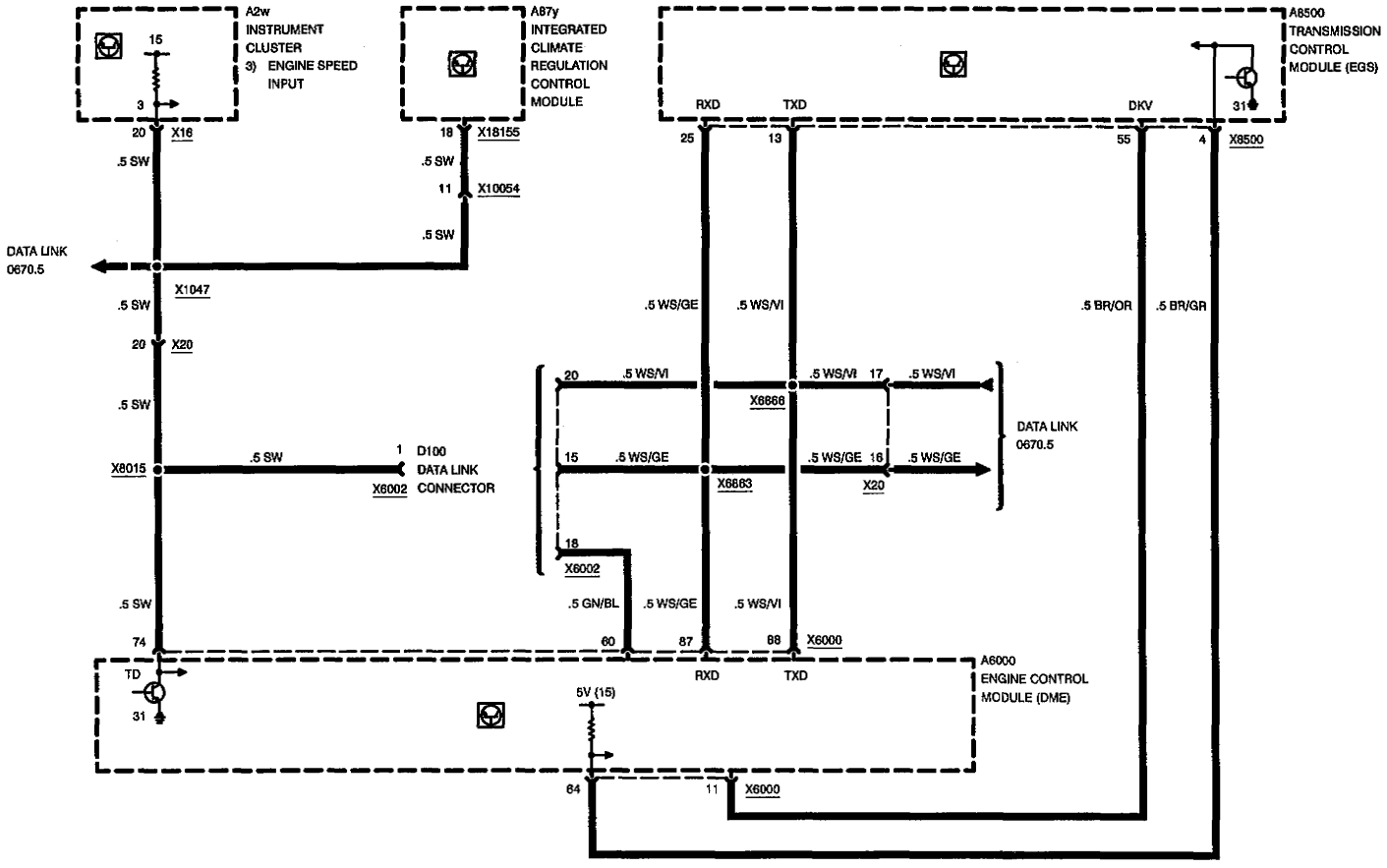
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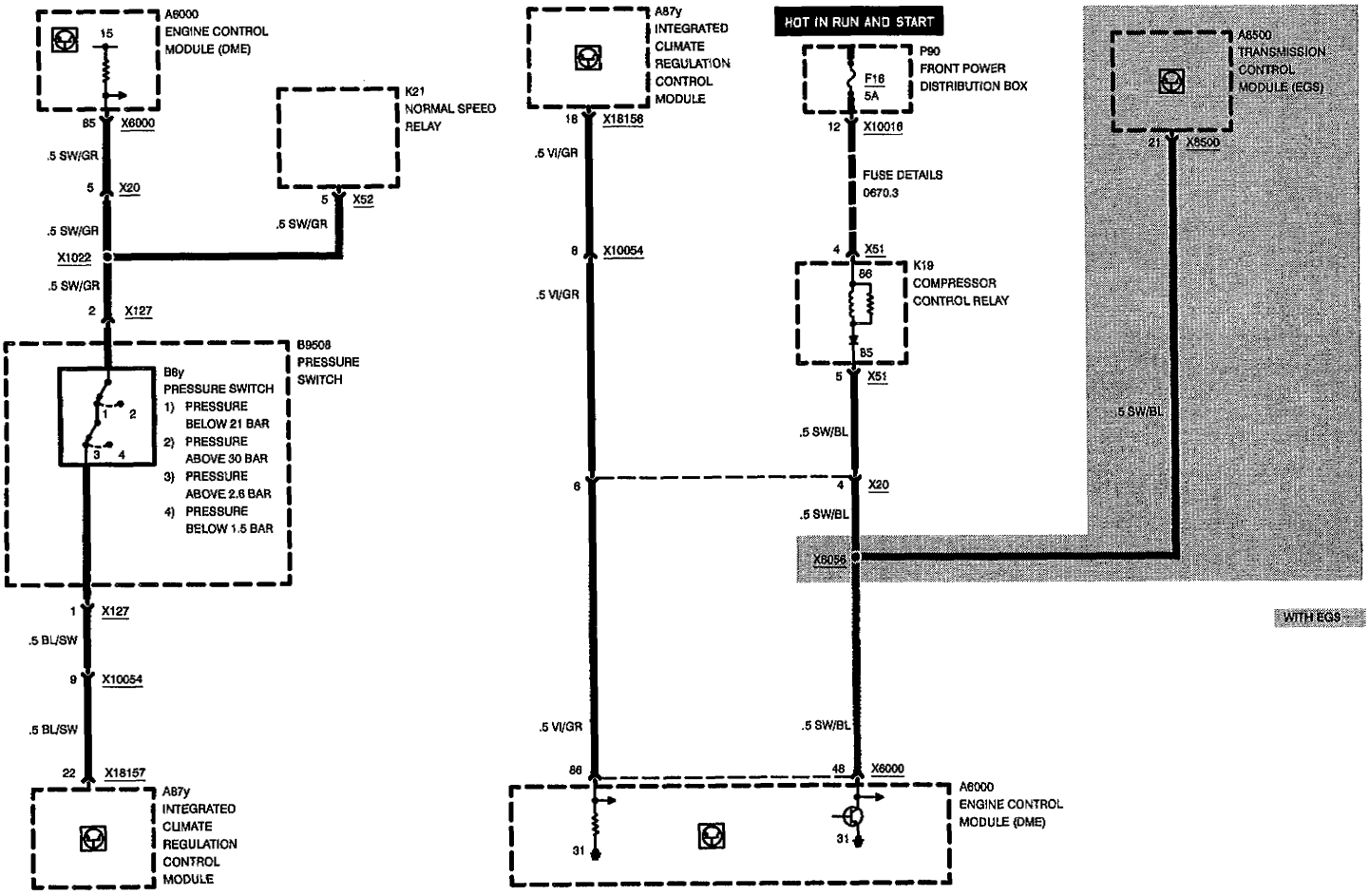
ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

DATA LINK



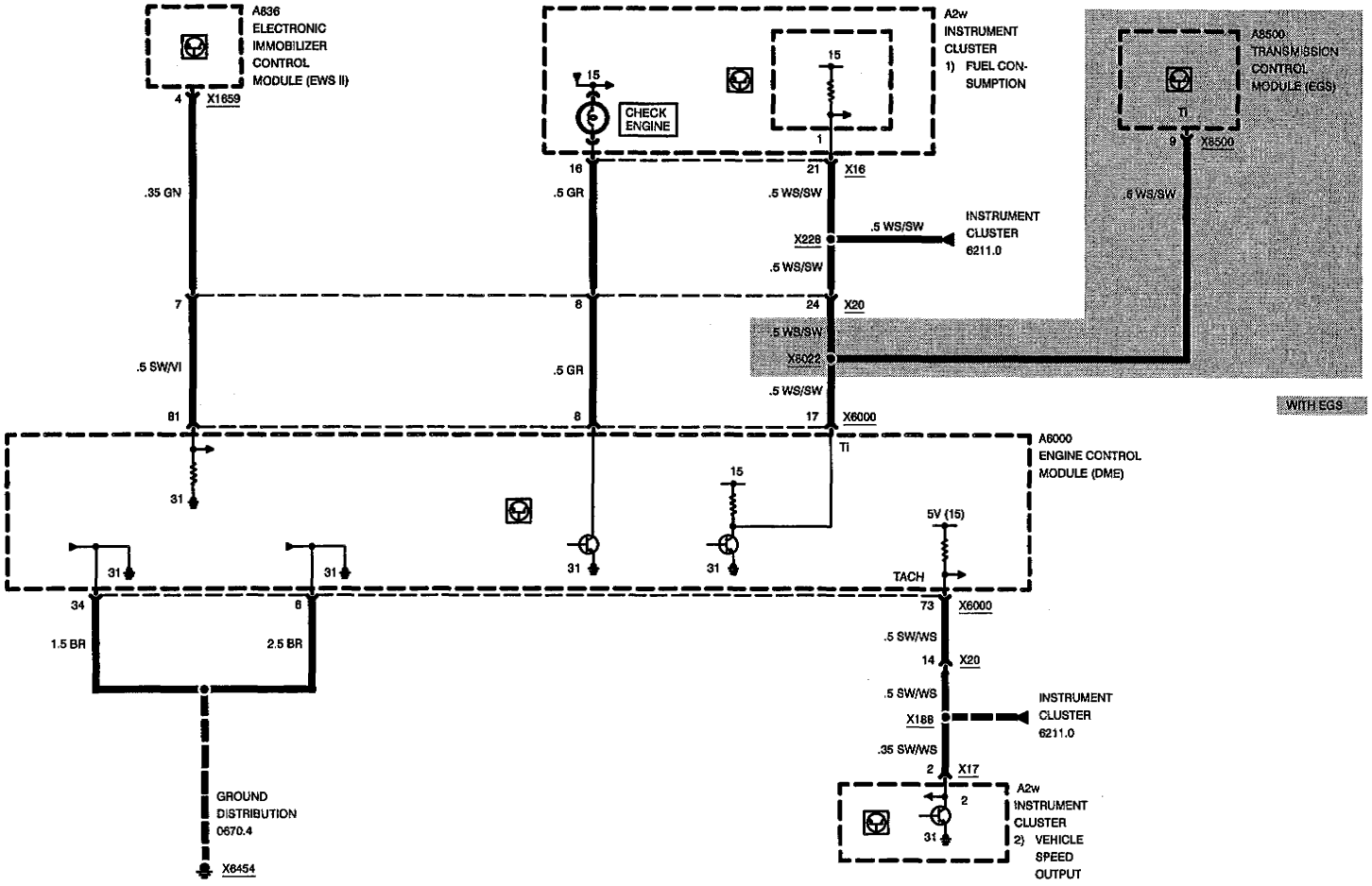
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ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

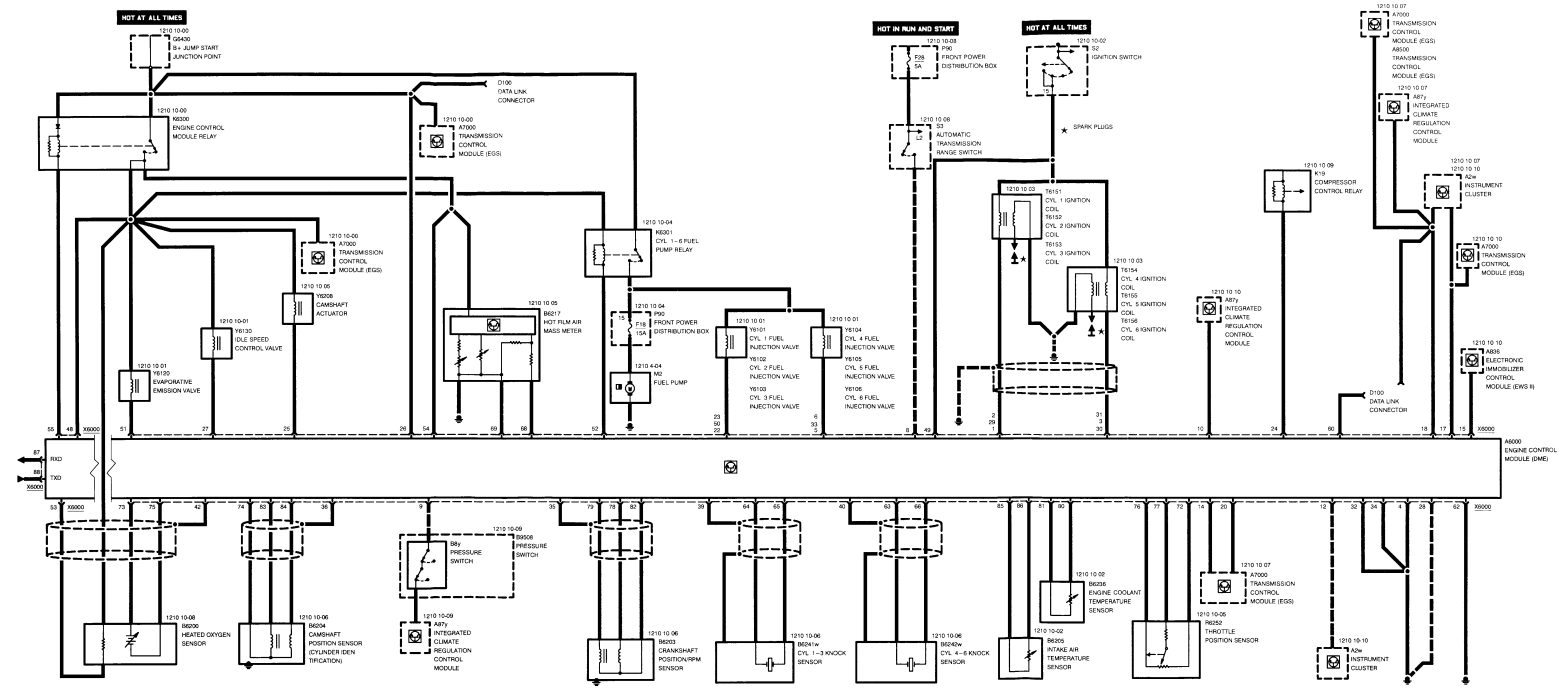


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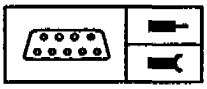
ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)



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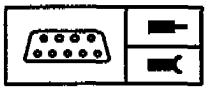
Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
2	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
3	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
4	M	Ground	Ground
5	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
6	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
7		Not used	
8	E	Drive range P/N	Automatic transmission range switch
9	A	A/C signal	Pressure switch
10	A	Auxiliary ventilation signal	Integrated climate regulation control module
11		Not used	
12	E	Vehicle speed signal	Instrument cluster
13		Not used	
14	A	Throttle valve position	Transmission control module (EGS)
15	E	Drive-away protection signal	Starter interlock module
16		Not used	
17	A	TI-measurement signal (fuel consumption)	Instrument cluster
18	A	Crankshaft RPM speed signal TD	Instrument cluster
19		Not used	
20	E	Ignition timing intervention	Transmission control module (EGS)
21		Not used	
22	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
23	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
24	A	A/C compressor control	Compressor control relay
25	A	Camshaft control signal	Camshaft control
26	E	Battery voltage	Jump start junction point
27	A	Idle speed signal	Idle speed control valve
28	M	Ground	Ground
29	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil

E = Input, A = Output, M = Ground

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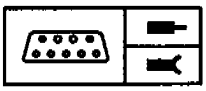


Pin Assignments

Pin	Type	Description/Function	Connection
30	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
31	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
32	M	Ground	Ground
33	A	Cyl. 5 fuel injection valve control	Cyl.5 fuel injection valve
34	M	Ground	Ground
35	M	Shield, crankshaft position/RPM sensor	Shield
36	M	Shield, camshaft sensor	Shield
37		Not used	
38		Not used	
39	M	Shield, knock sensor (Cyl. 1-3)	Knock sensor (Cyl. 1-3)
40	M	Shield, knock sensor (Cyl. 4-6)	Knock sensor(Cyl. 4-6)
41		Not used	
42	M	Shield, oxygen sensor	Shield
43		Not used	
44		Not used	
45		Not used	
46		Not used	
47		Not used	
48	E	Voltage supply	Engine control module relay
49	E	Ignition signal	Ignition switch
50	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
51	A	Evaporative emission valve control	Evaporative emission valve
52	A	Fuel pump signal	Fuel pump relay
53	M	Ground, oxygen sensor	Oxygen sensor
54	E	Voltage supply	Engine control module relay
55	A	DME-relay signal	Engine control module relay
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60	E	Programming voltage	Data link connector
61		Not used	

E = Input, A = Output, M = Ground

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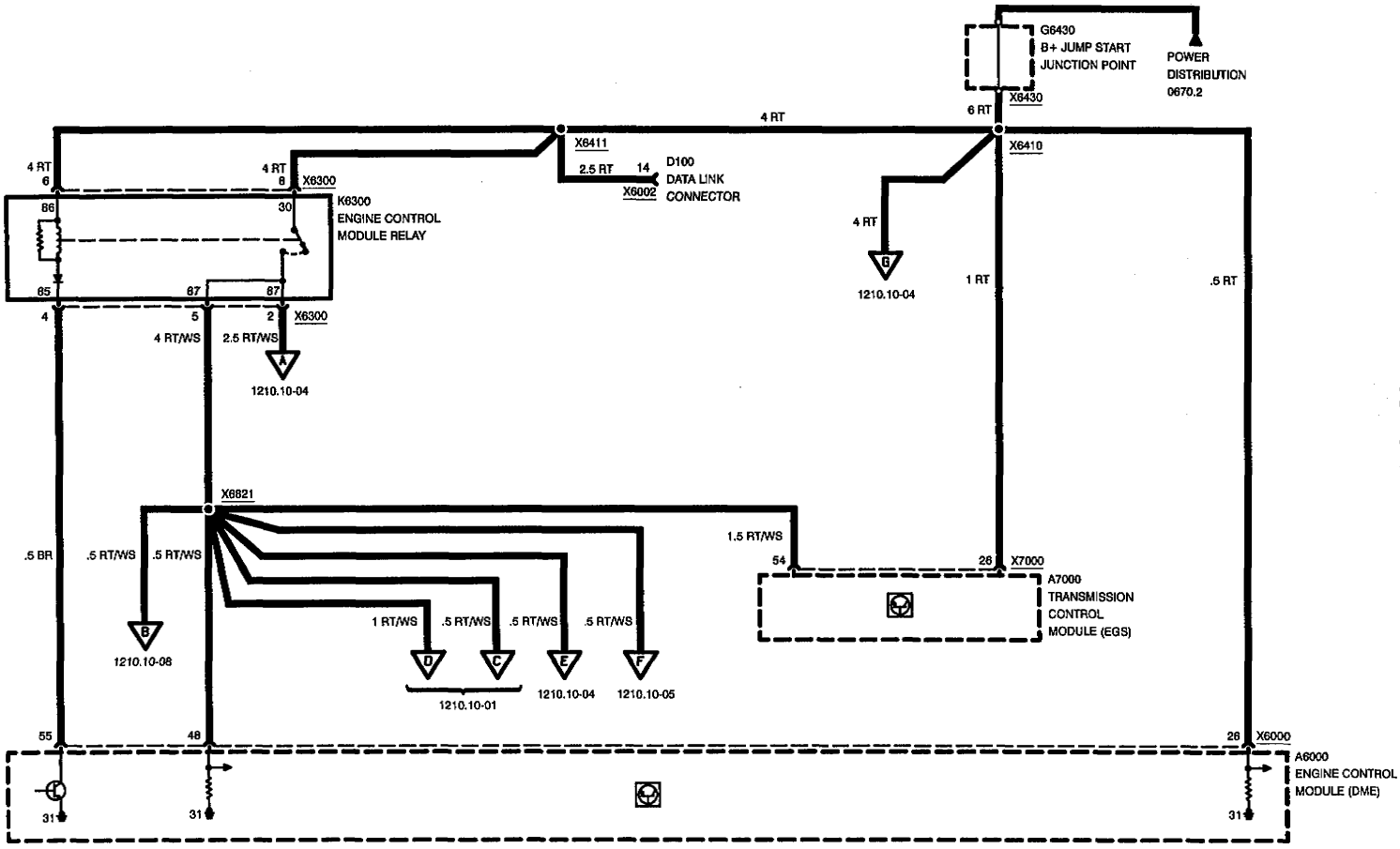


Pin Assignments

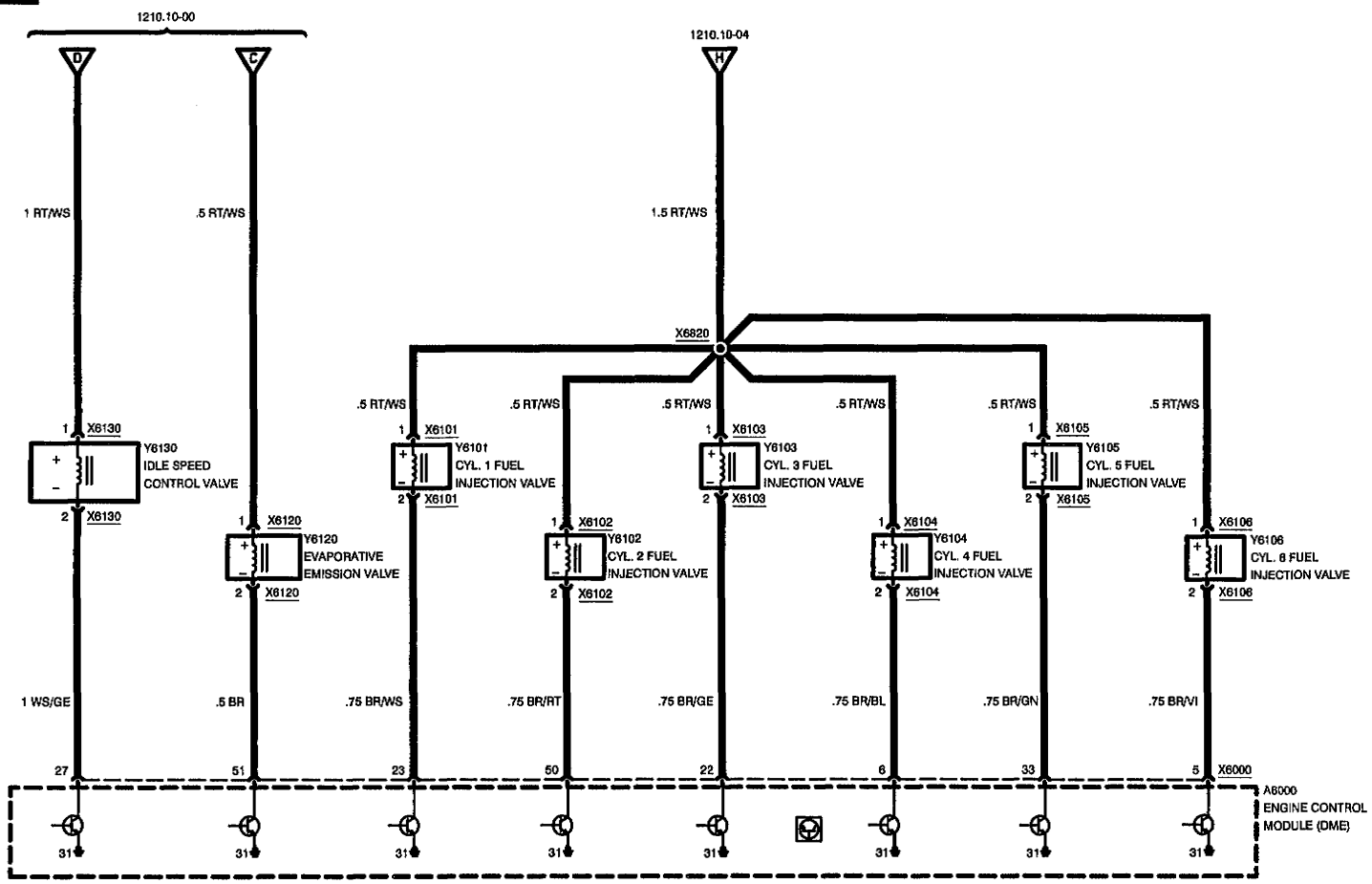
Pin	Type	Description/Function	Connection
62	M	Ground	Ground
63	E	Knock sensor signal (−)	Knock sensor (Cyl. 4-6)
64	E	Knock sensor signal (−)	Knock sensor (Cyl. 1-3)
65	A	Knock sensor signal (+)	Knock sensor (Cyl. 1-3)
66	A	Knock sensor signal (+)	Knock sensor (Cyl. 4-6)
67		Not used	
68	M	Ground, air mass meter	Hot film air mass meter
69	E	Air mass meter signal	Hot film air mass meter
70		Not used	
71		Not used	
72	A	Voltage supply	Throttle position sensor
73	E	Oxygen sensor signal	Oxygen sensor
74	M	Ground, hall effect camshaft sensor	Hall effect camshaft sensor
75	M	Ground, oxygen sensor	Oxygen sensor
76	M	Ground, throttle position sensor	Throttle position sensor
77	E	Throttle position signal	Throttle position sensor
78	E	Crankshaft position/RPM signal (−)	Crankshaft position/RPM sensor
79	A	Crankshaft position/RPM signal (+)	Crankshaft position/RPM sensor
80	E	Engine coolant temperature	Engine coolant temperature sensor
81	A	Engine coolant temperature	Engine coolant temperature sensor
82	M	Ground, crankshaft position/RPM sensor	Crankshaft position/RPM sensor
83	E	Camshaft signal (−)	Hall effect camshaft sensor
84	A	Camshaft signal (+)	Hall effect camshaft sensor
85	E	Engine intake air temperature	Engine intake air temperature sensor
86	M	Ground, engine intake air temperature sensor	Engine intake air temperature sensor
87	A	RxD diagnostic data link	Data link connector
88	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

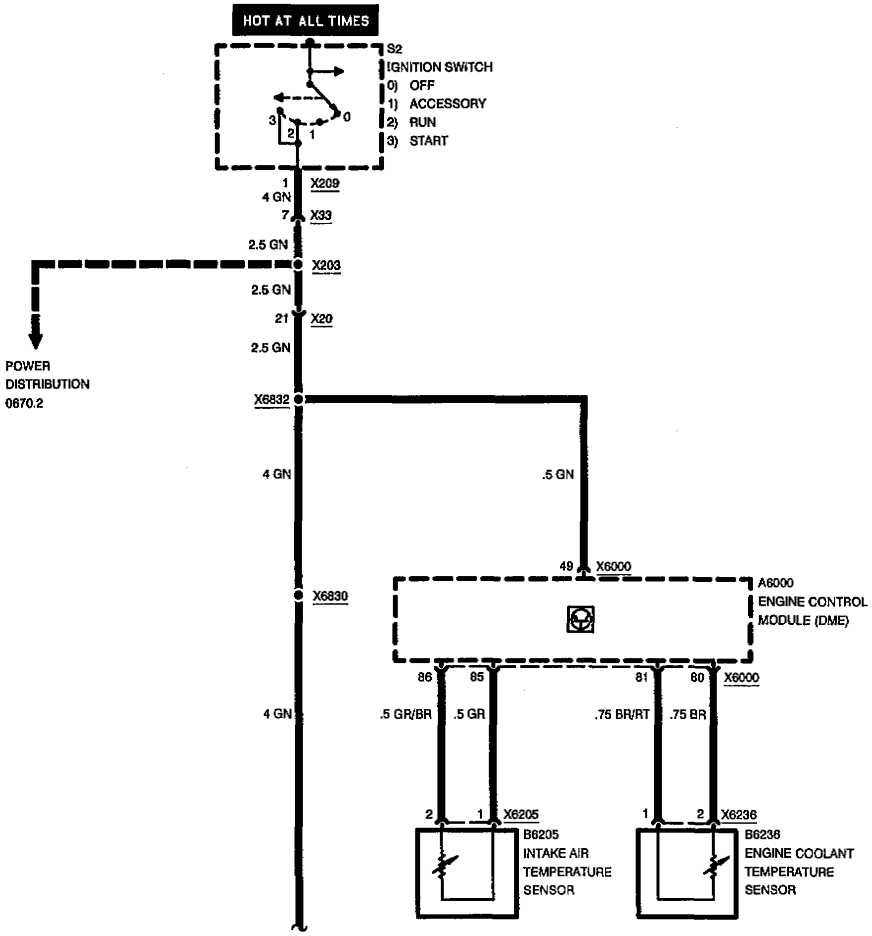
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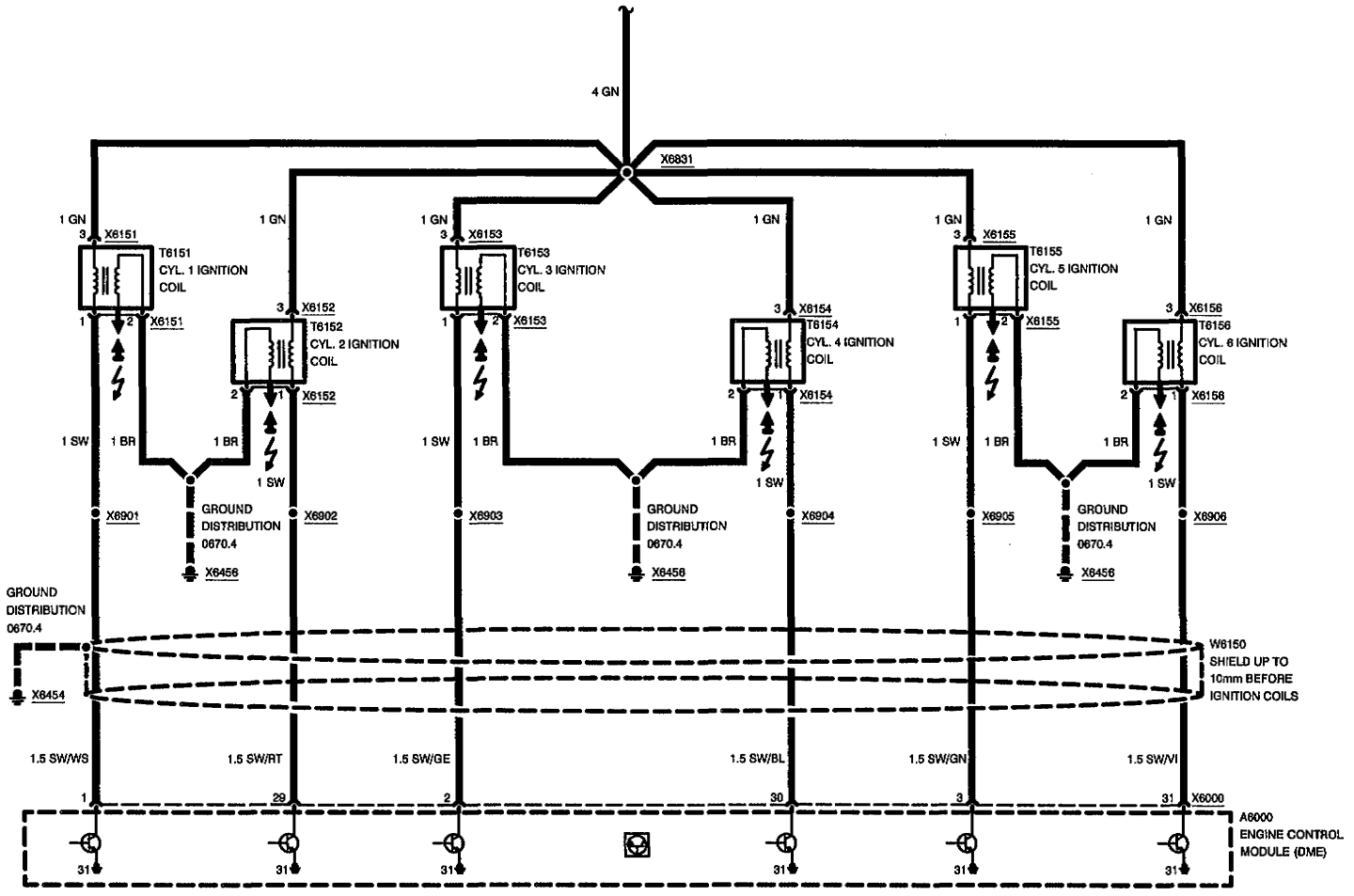
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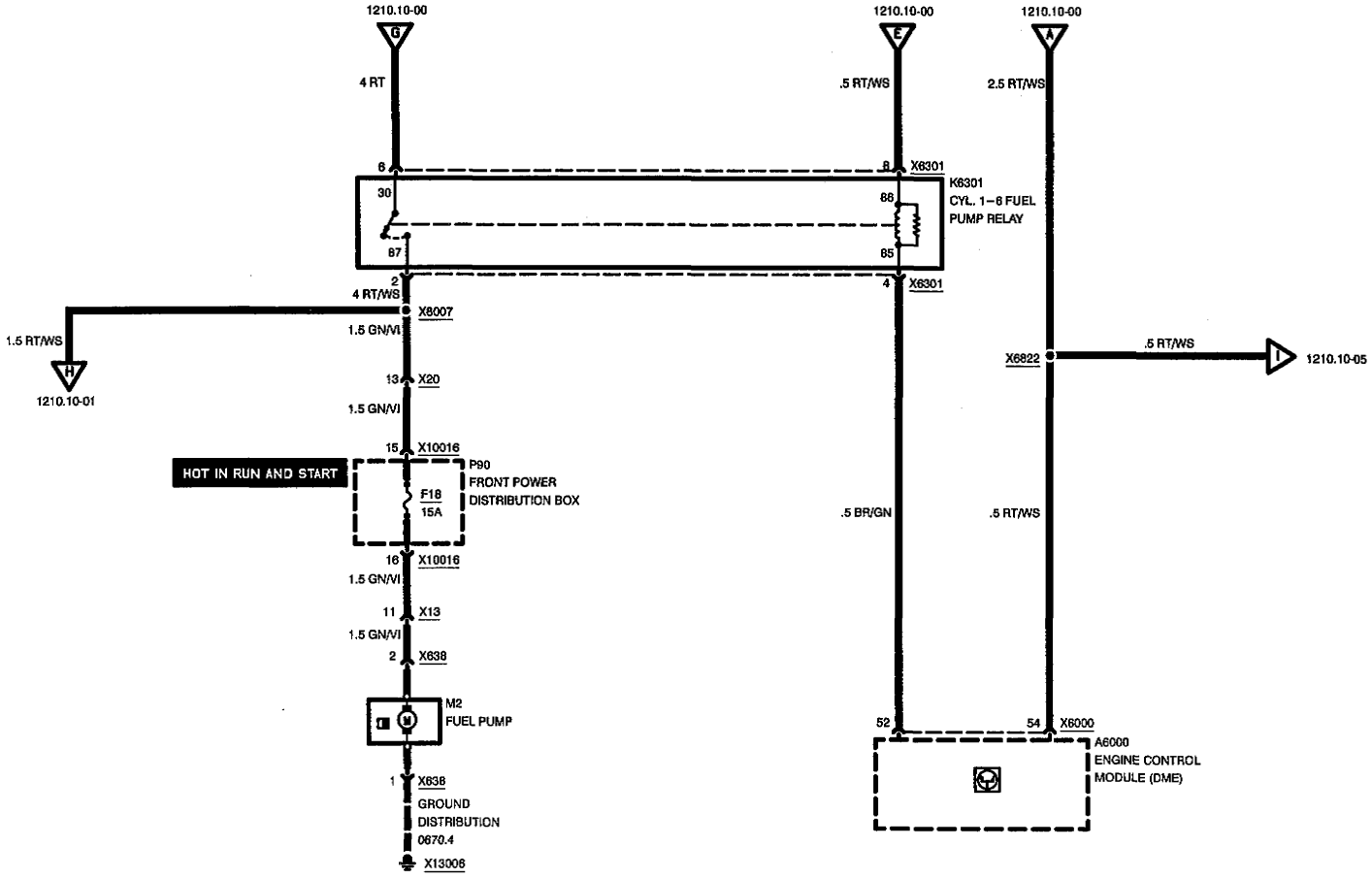
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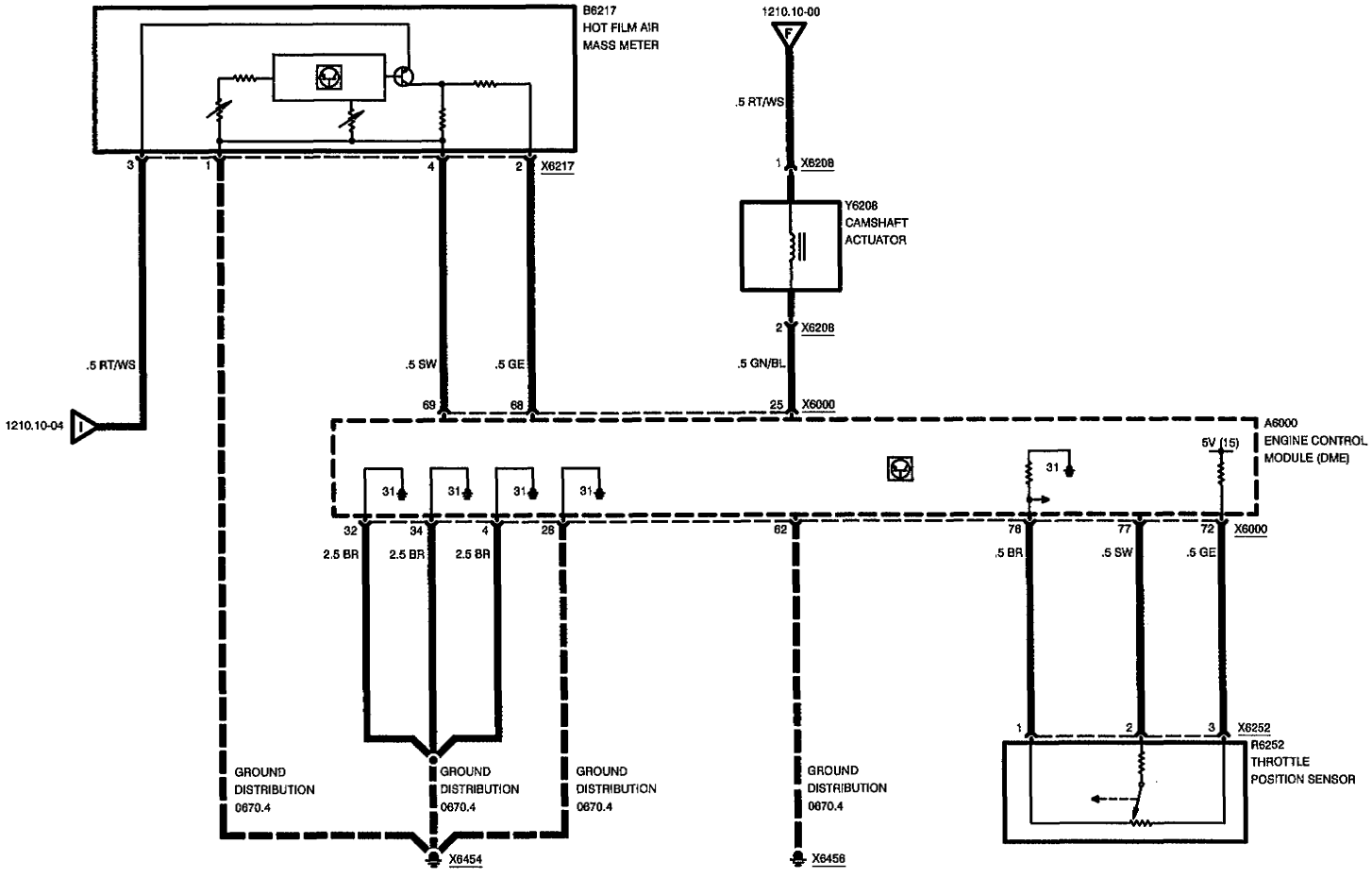
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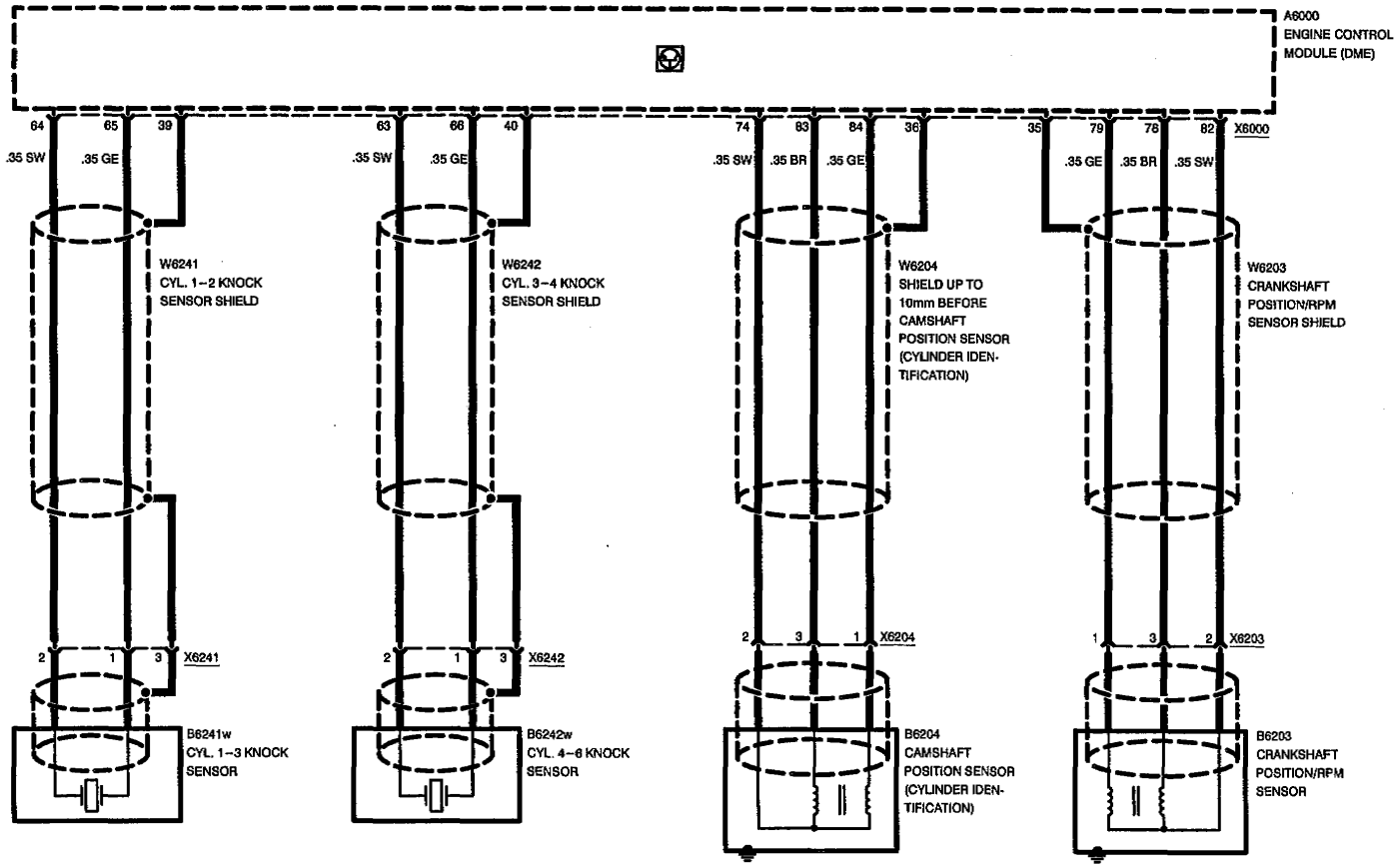
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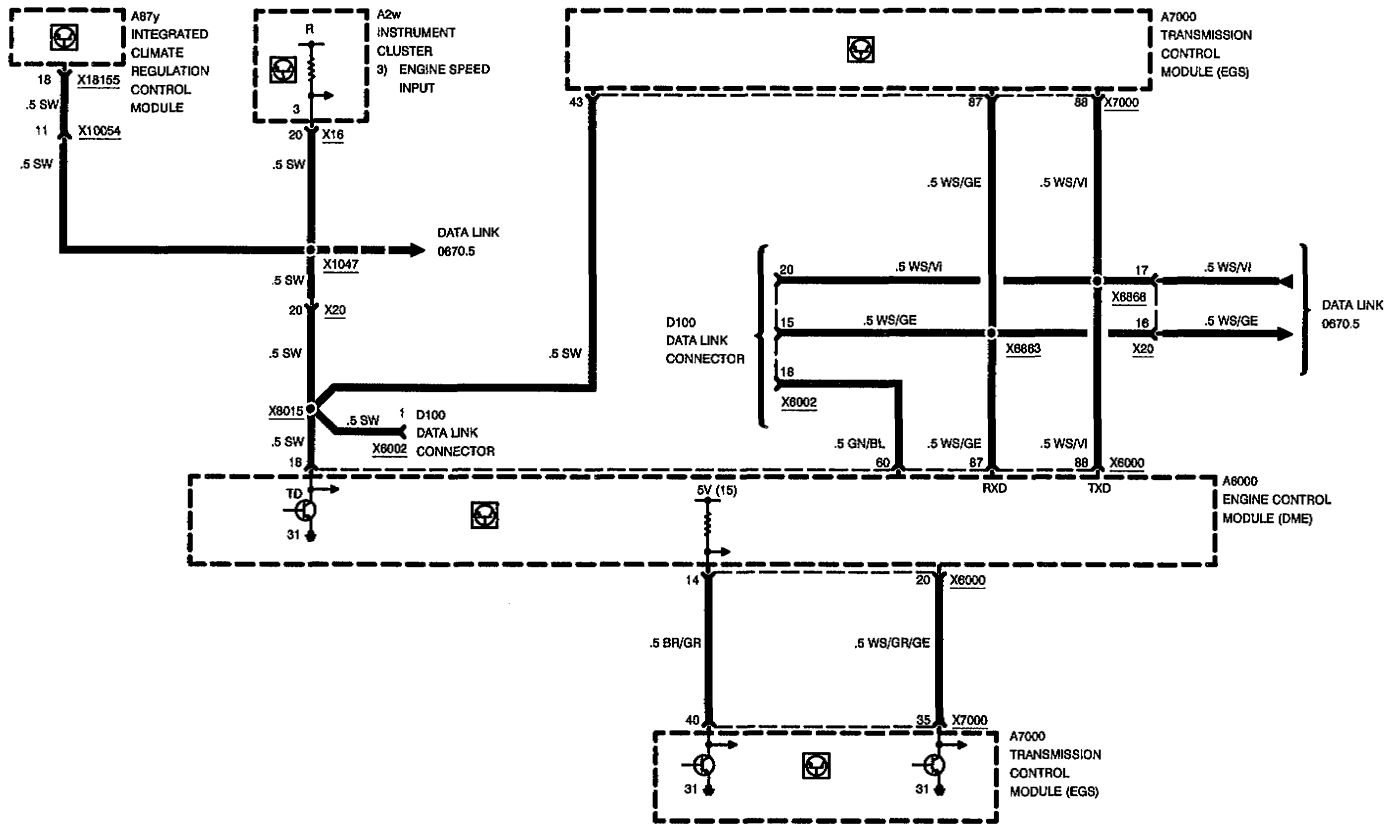


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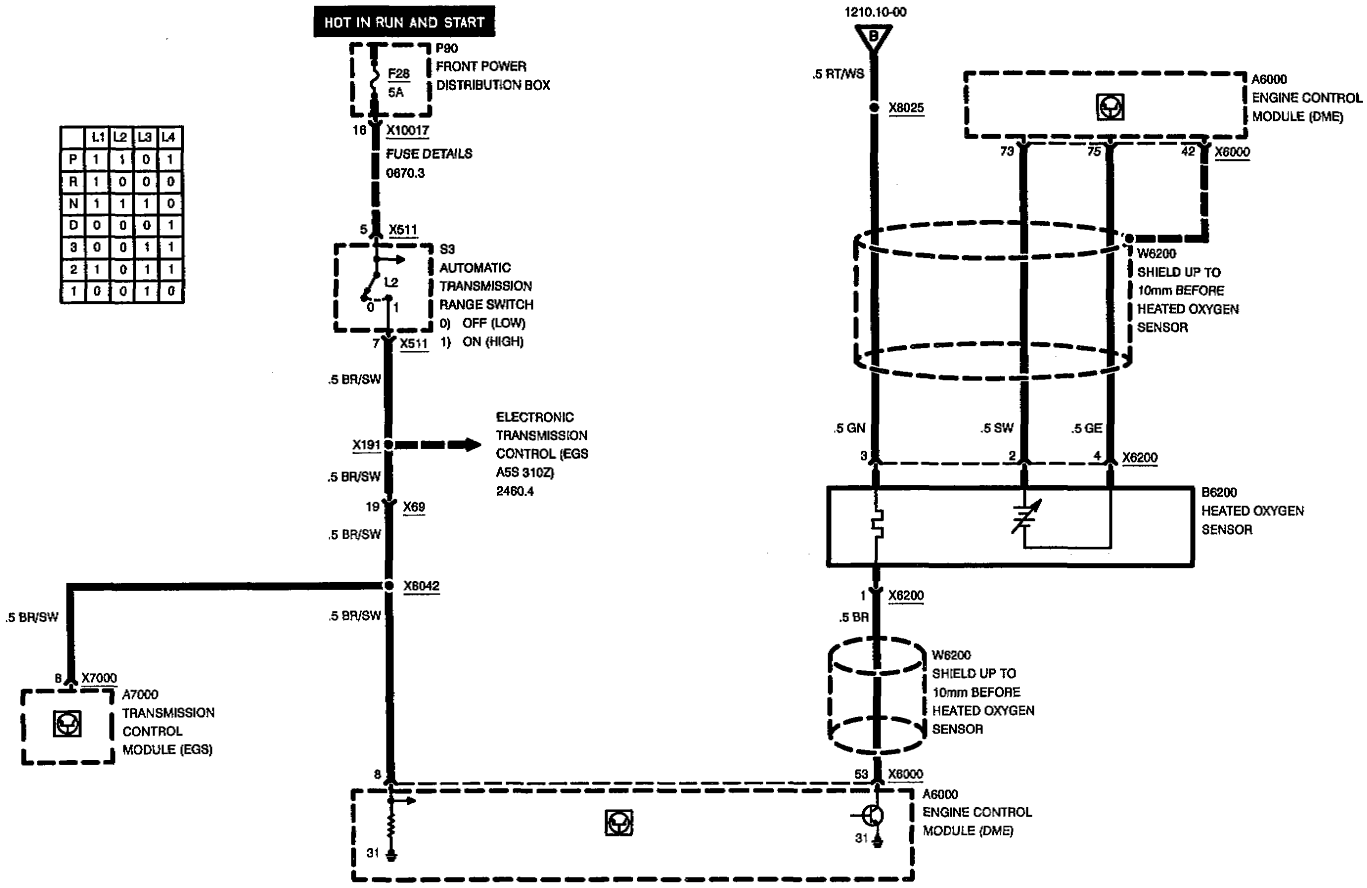


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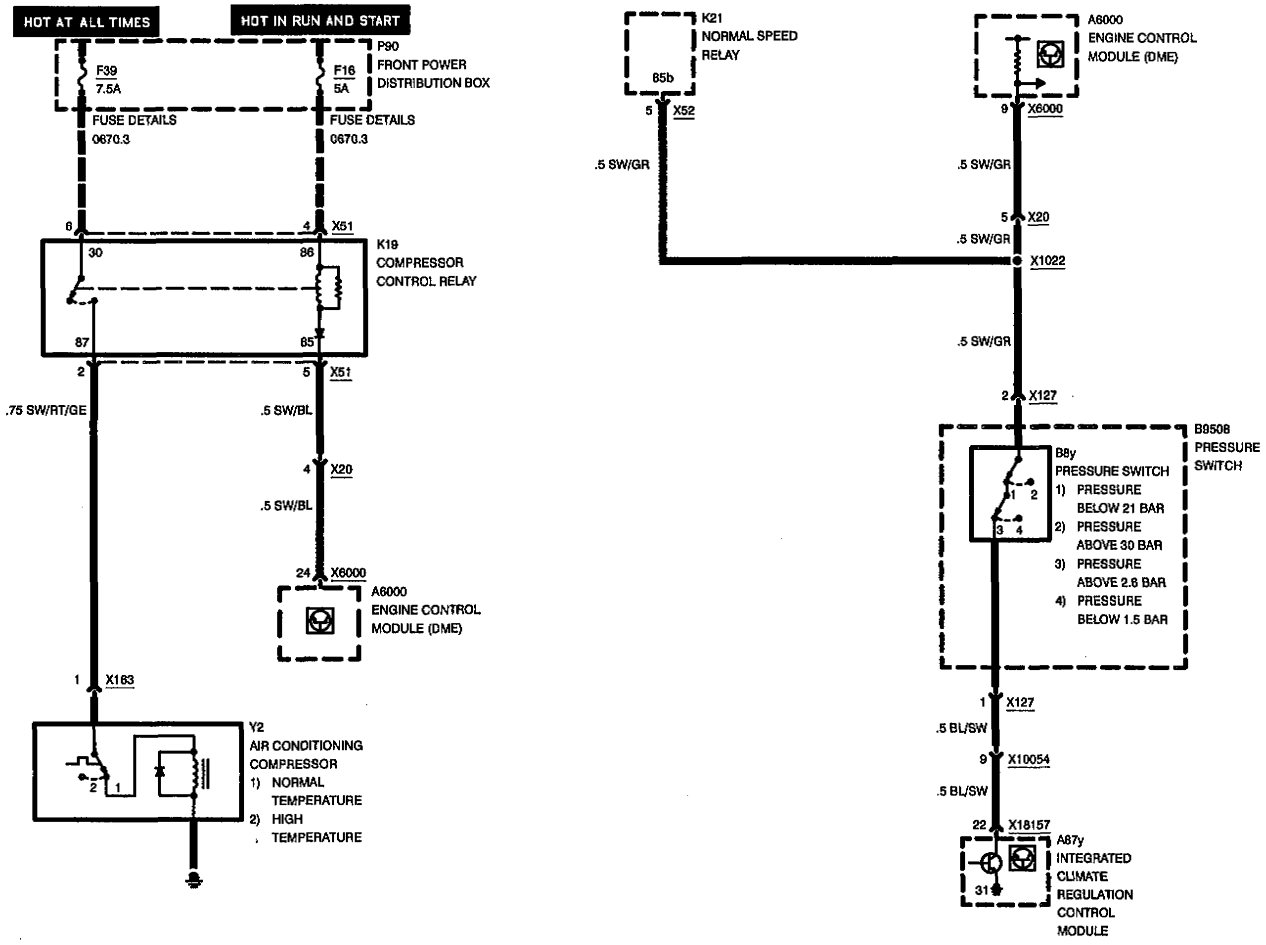
ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)



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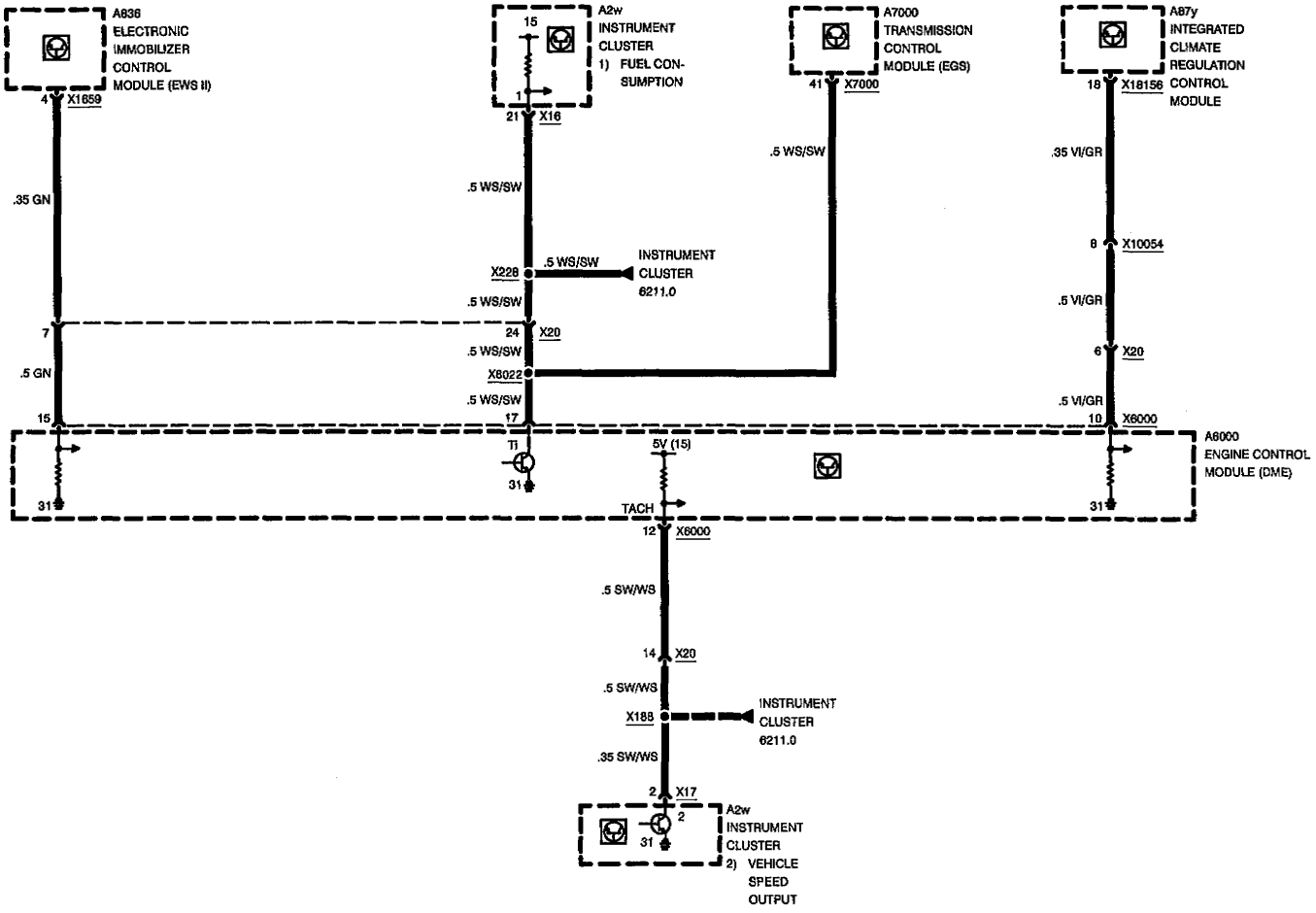
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ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)

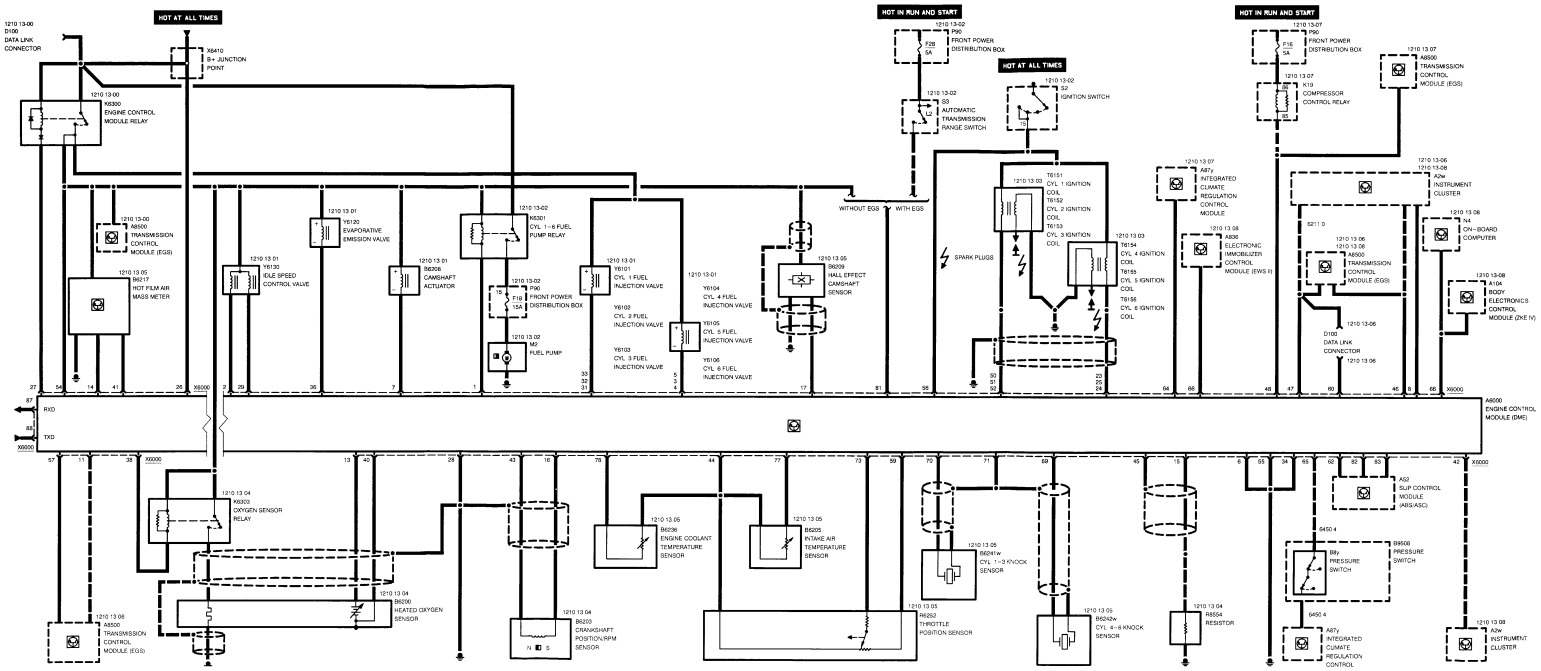
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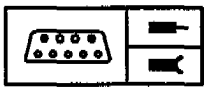
Pin Assignments

X6000

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

E = Input, A = Output, M = Ground

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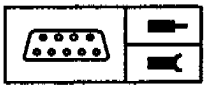


Pin Assignments

Pin	Type	Description/Function	Connection
30		Not used	
31	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
32	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
33	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
34	M	Ground remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37		Not used	
38	A	Oxygen sensor heater control	Oxygen sensor relay, terminal 85
39		Not used	
40	M	Oxygen sensor signal ground	Heated oxygen sensor
41	E	Hot wire air mass meter	Hot wire air mass meter
42	E	Vehicle speed signal	Instrument cluster
43	E	Crankshaft position/RPM sensor signal (−)	Crankshaft position/RPM sensor
44	M	Ground for sensors	Engine intake air temperature sensor, engine coolant temperature sensor, and throttle position sensor
45	M	Ground for shield	Shield
46	A	Ti measurement signal (fuel consumption)	Instrument cluster
47	A	Crankshaft RPM speed signal TD	Instrument cluster
48	A	A/C compressor control	Compresor control relay, terminal 85
49		Not used	
50	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
51	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
52	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87a
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch
57	E	Ignition timing intervention	Transmission control module (EGS)
58		Not used	
59	A	5V component supply	Throttle position sensor

E = Input, A = Output, M = Ground

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Pin Assignments

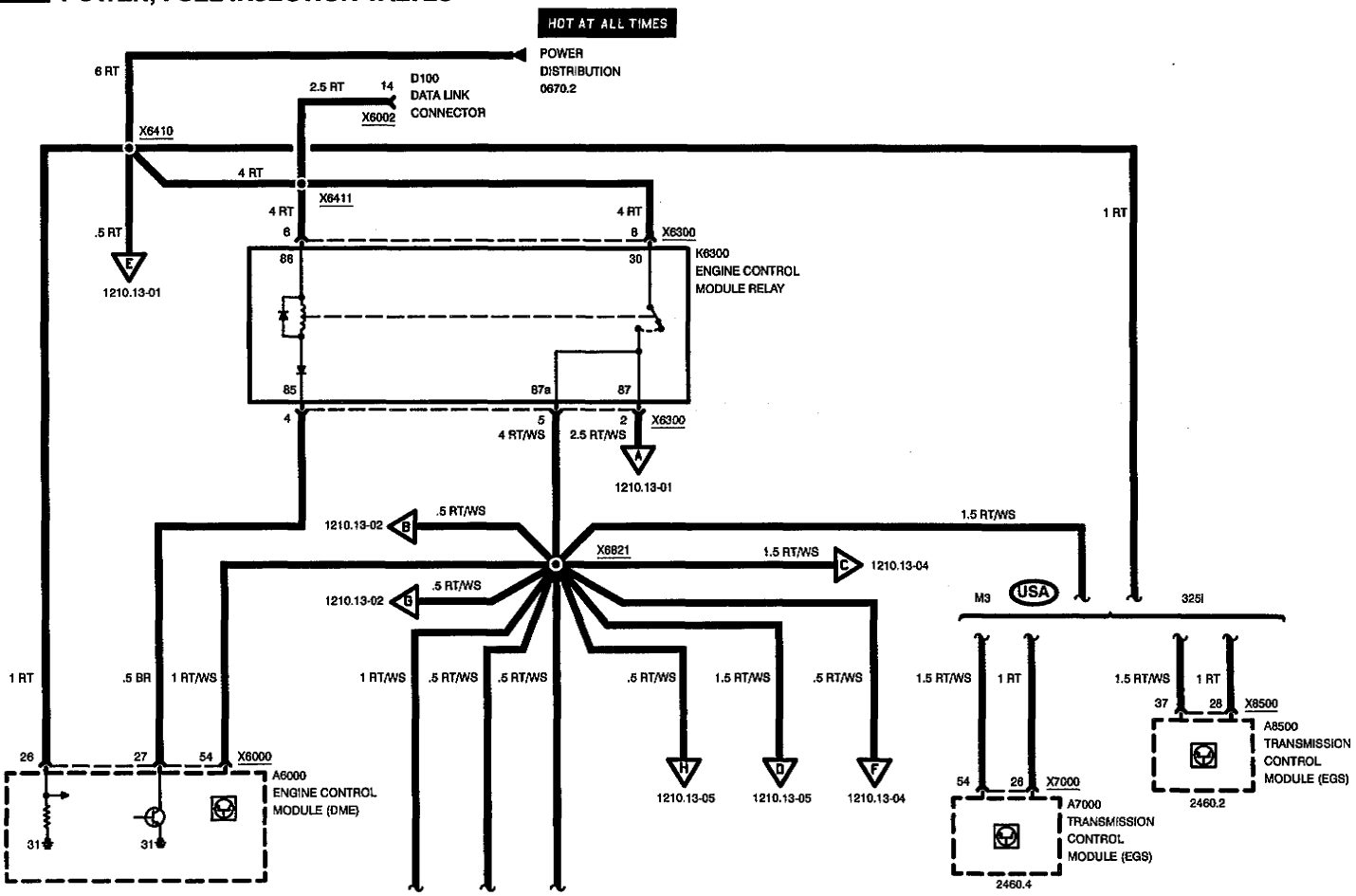
Pin	Type	Description/Function	Connection
60	E	Programming voltage	Data link connector
61		Not used	
62	E	EML-signal	ABS/ASC control module
63		Not used	
64	E	A/C switch	Integrated climate regulation control module
65	E	A/C pressure signal	Pressure switch
66	E	Drive-away protection signal (code)	Electronic immobilizer control module (EWS II)
67		Not used	
68		Not used	
69	E	Cyl. 4-6 knock sensor	Cyl. 4-6 knock sensor
70	E	Cyl. 1-3 knock sensor	Cyl. 1-3 knock sensor
71	M	Ground for knock sensors and shields	Cyl. 1-3 knock sensor, cyl. 4-6 knock sensor, and shields
72		Not used	
73	E	Throttle position	Throttle position sensor
74		Not used	
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81	E	Drive range P/N	Automatic transmission range switch
82	E	Throttle flap position	ABS/ASC control module
83	A	Ignition cut-off signal	ABS/ASC control module
84		Not used	
85		Not used	
86		Not used	
87	E	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

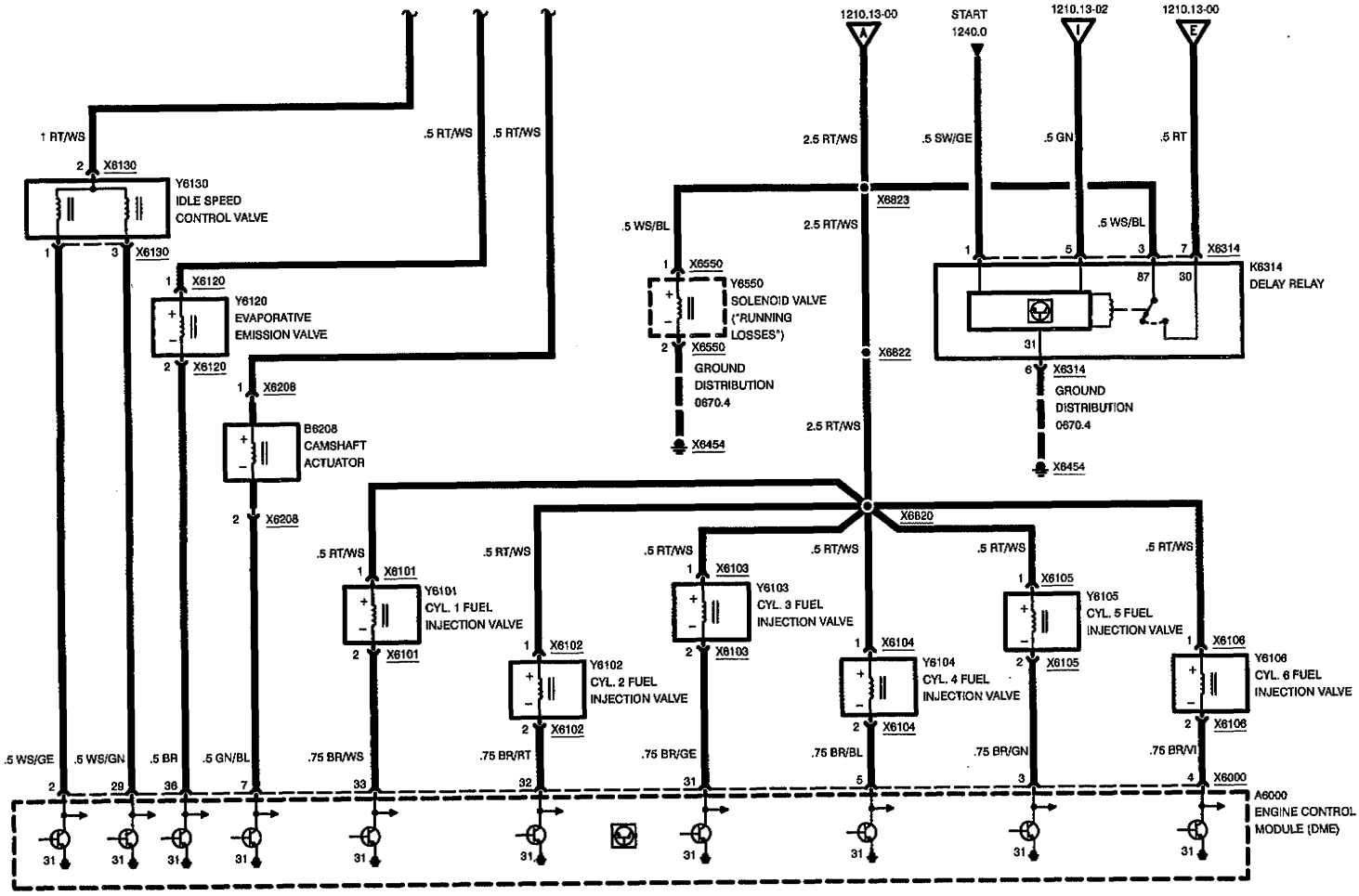
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ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

POWER, FUEL INJECTION VALVES



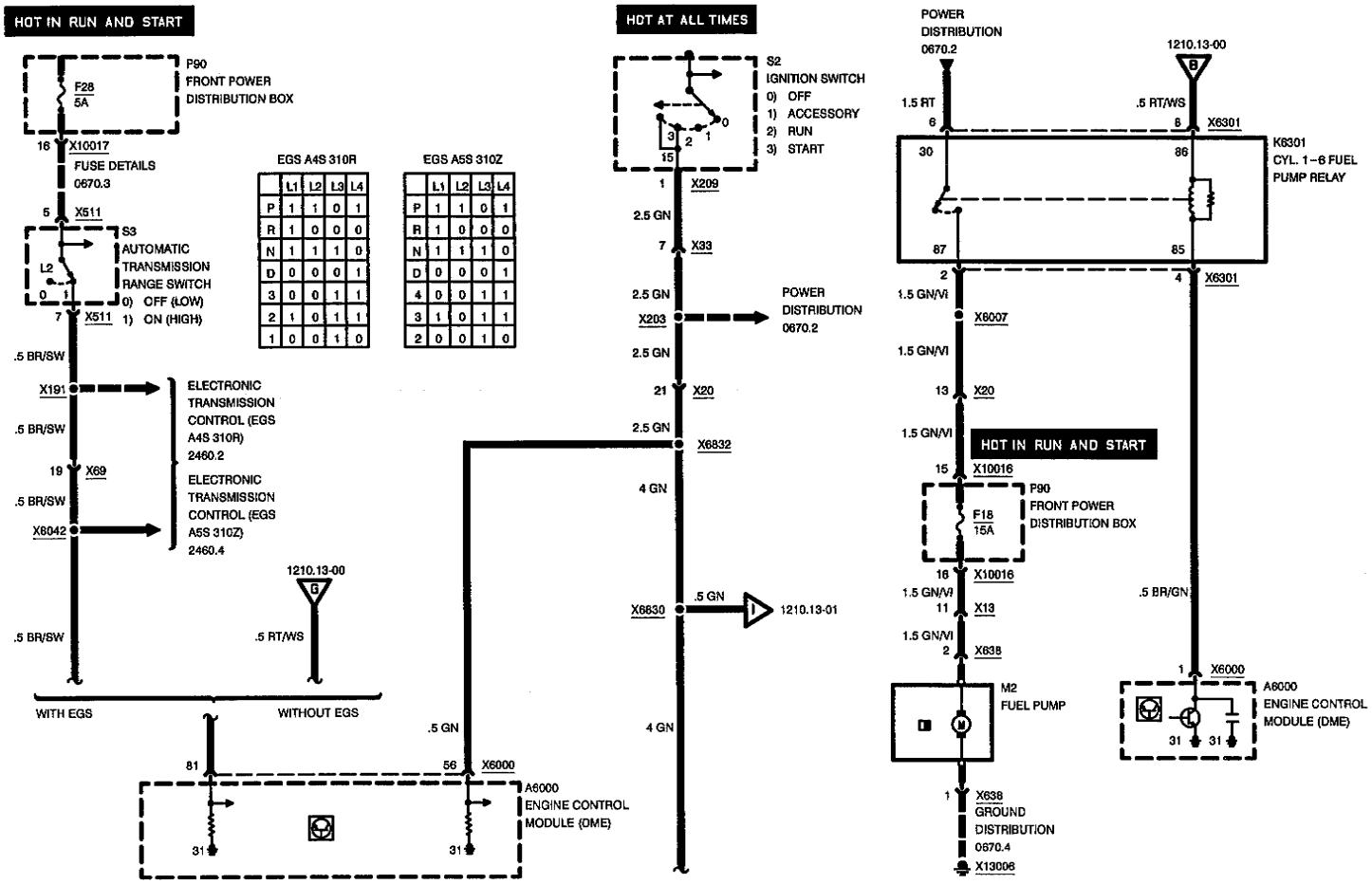
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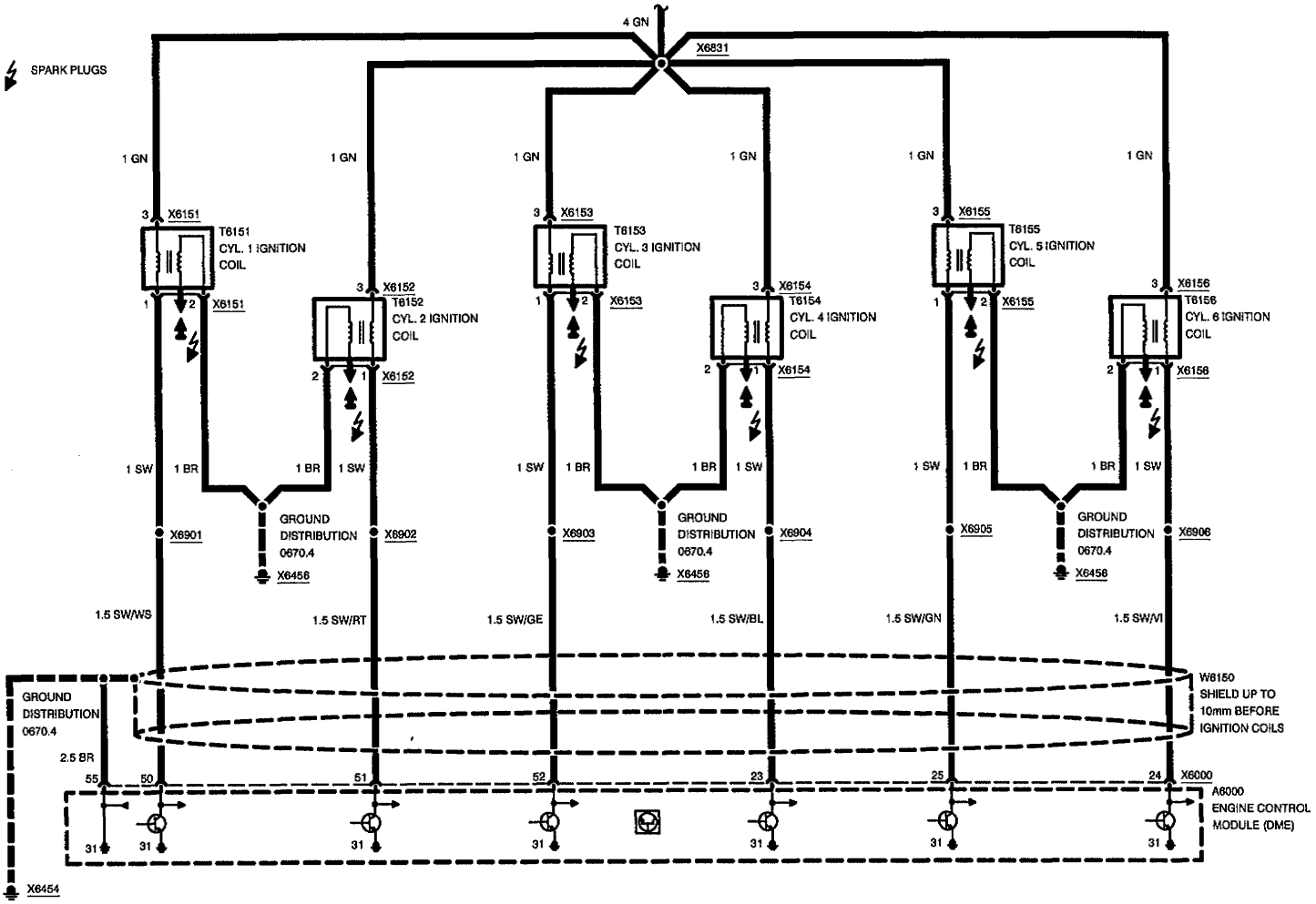
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ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

FUEL PUMP, IGNITION COILS



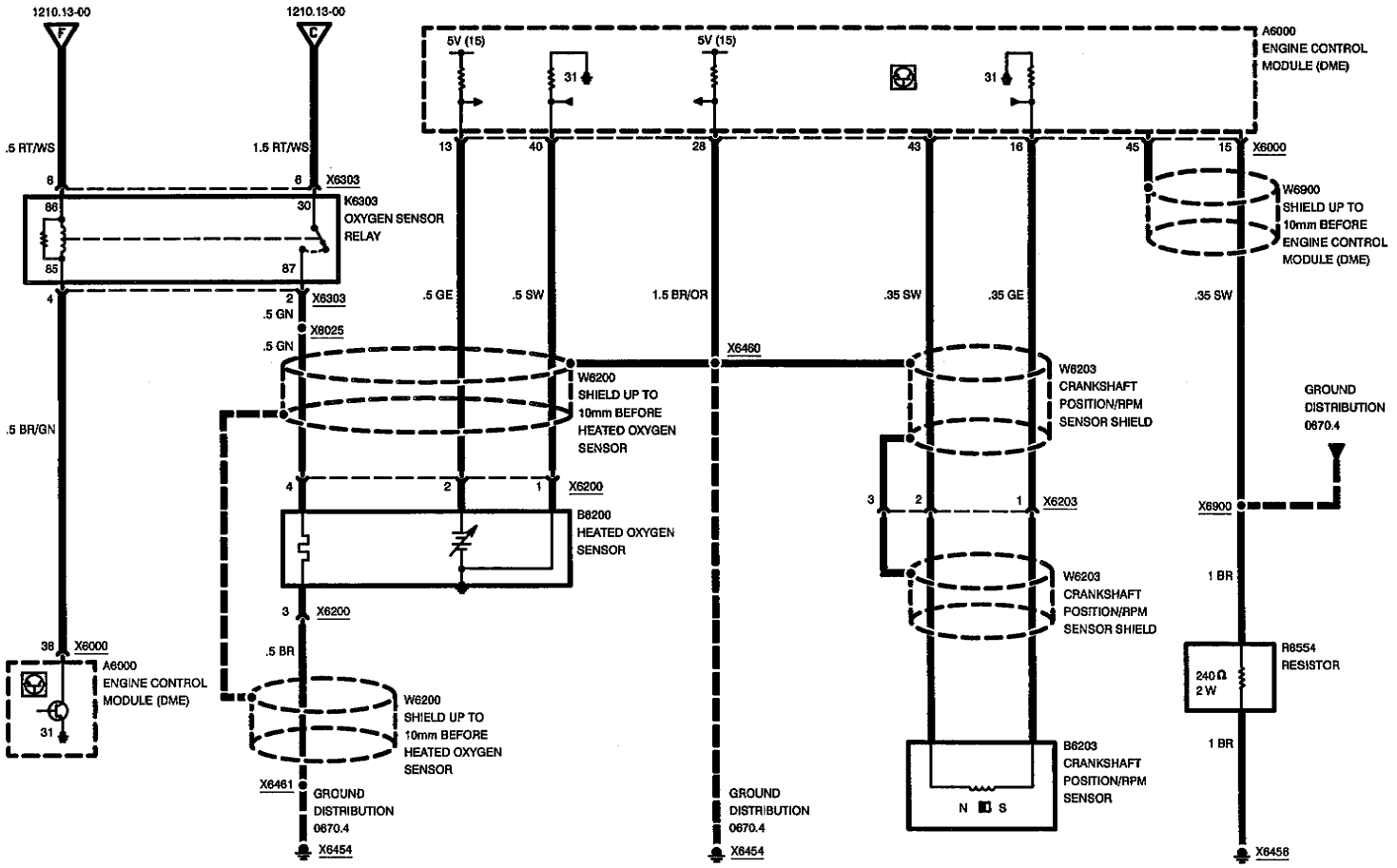
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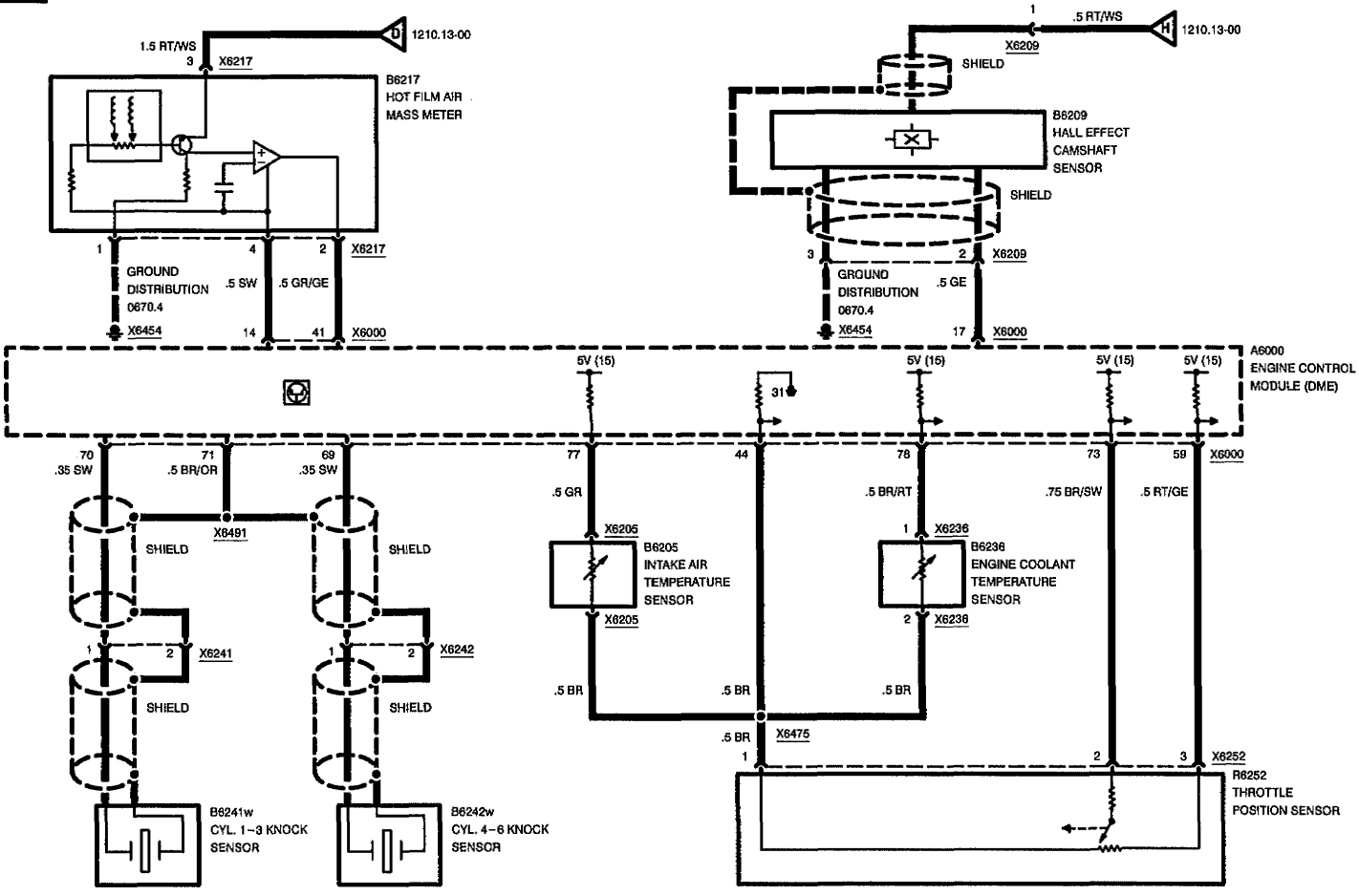
ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS



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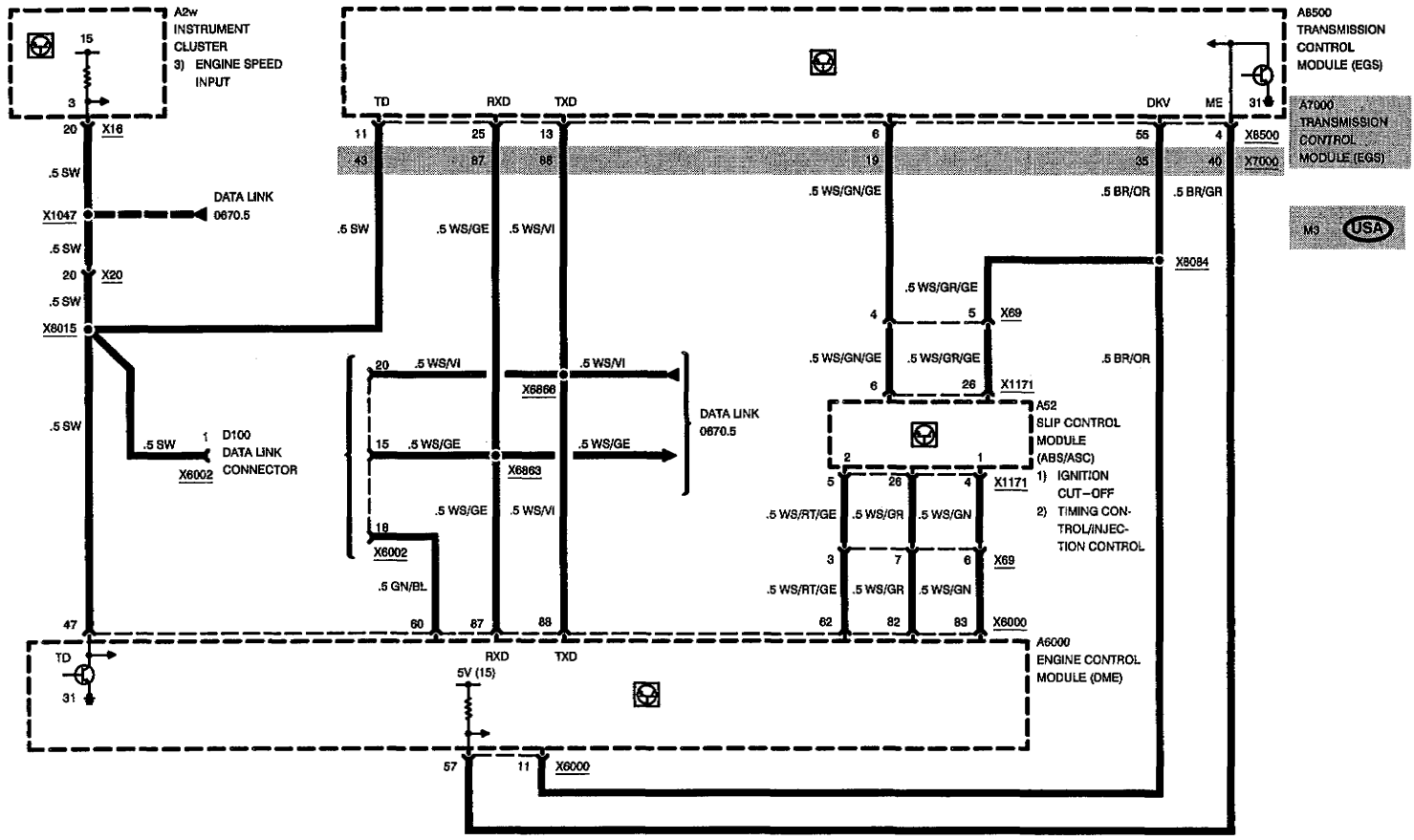
ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)



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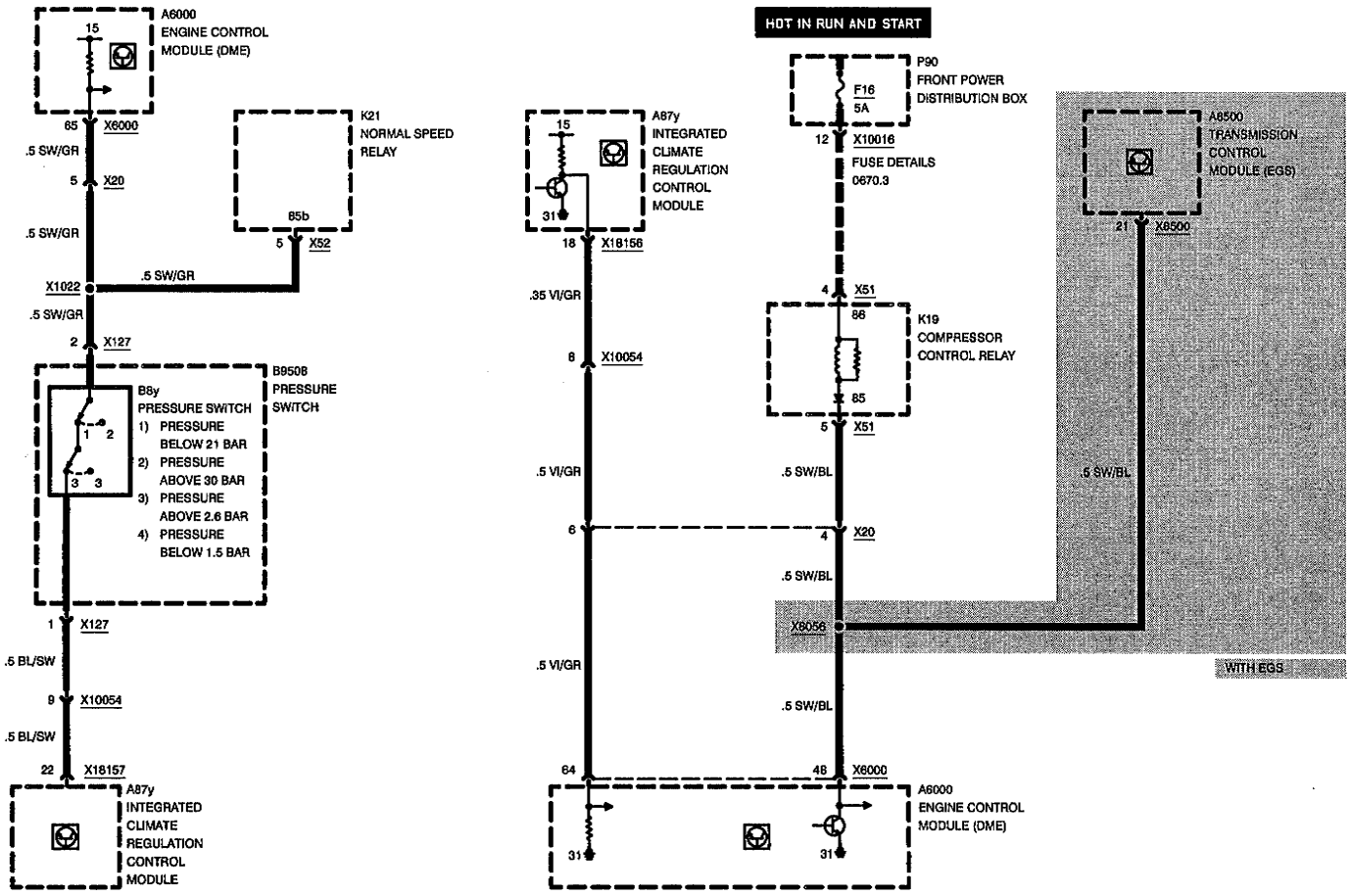
ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

DATA LINK



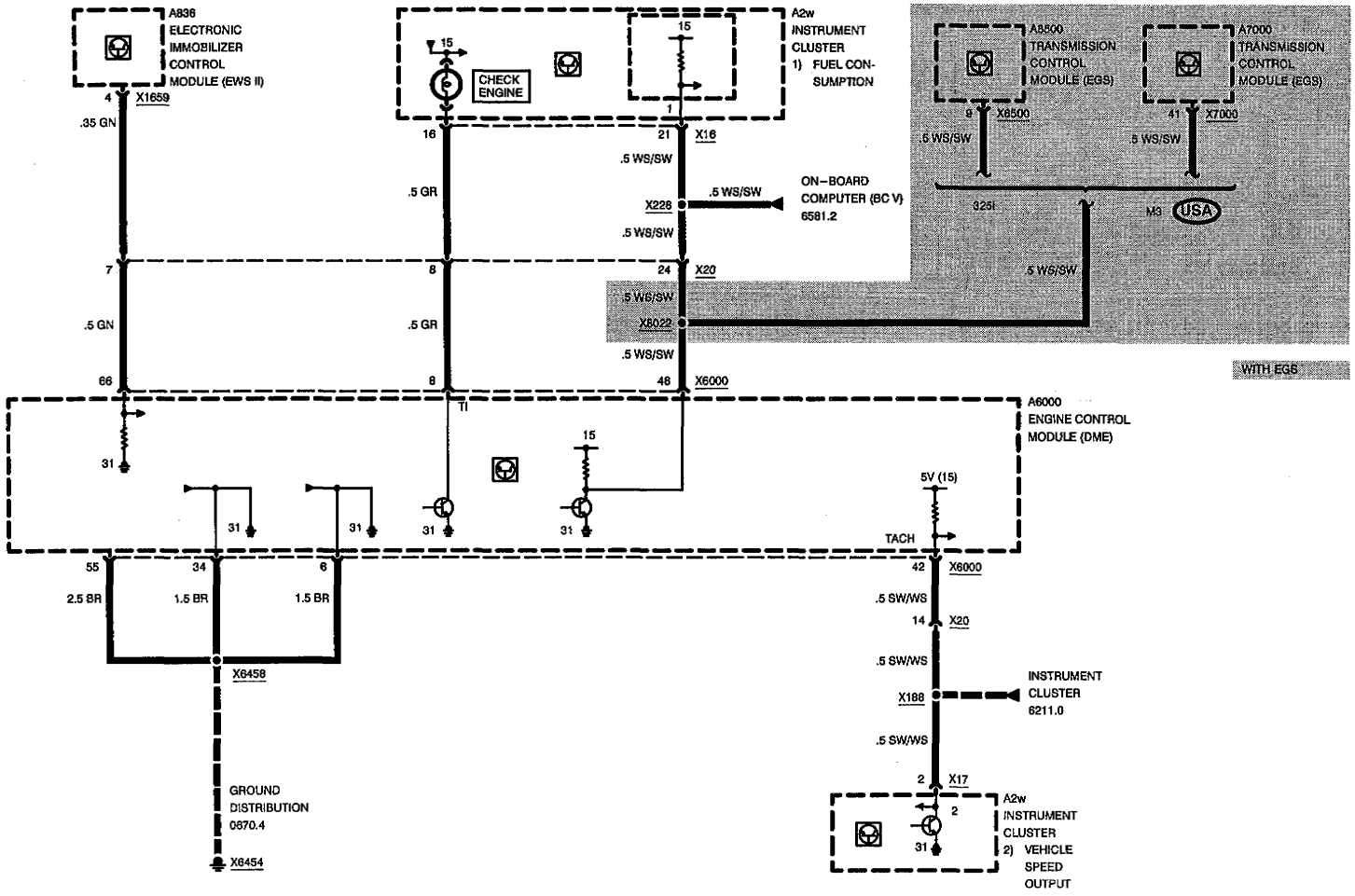
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ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

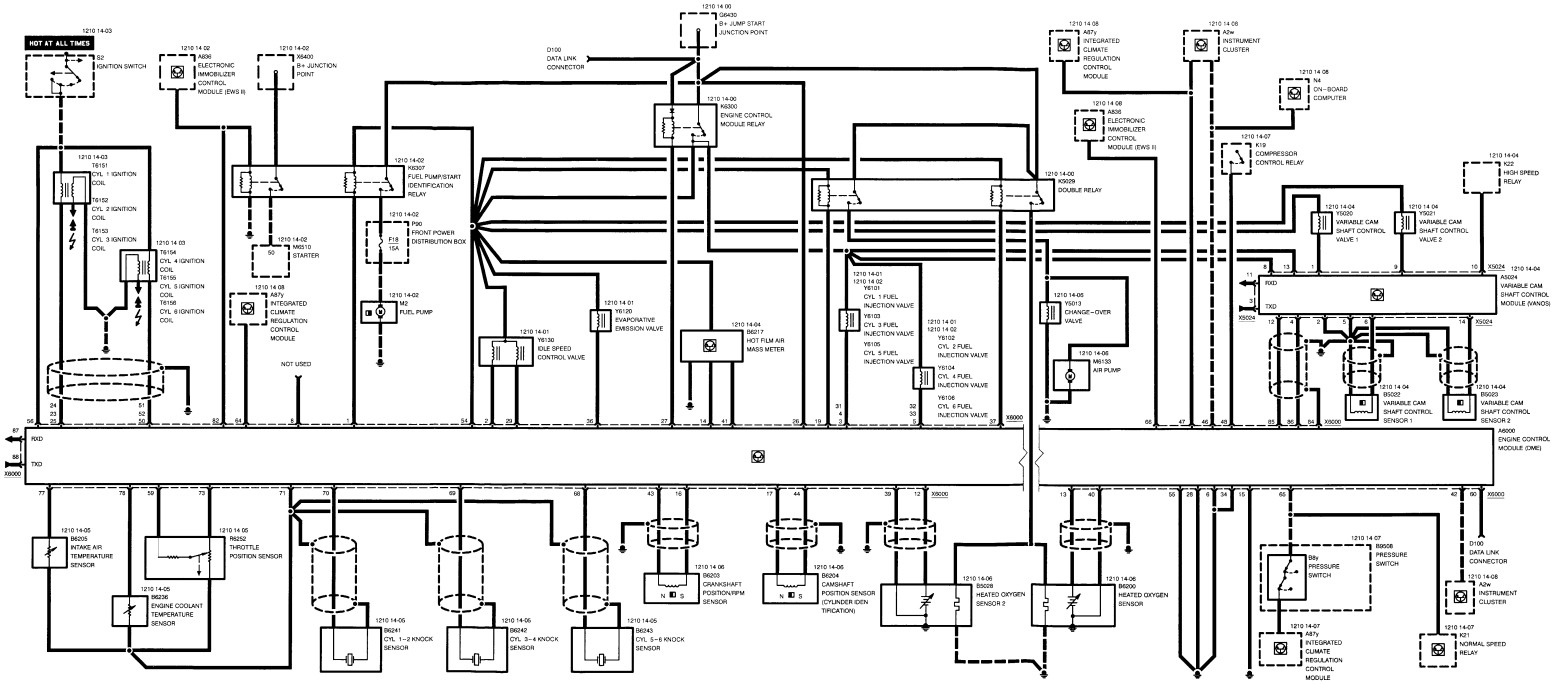


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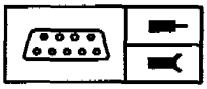
ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)



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Pin Assignments

X5024

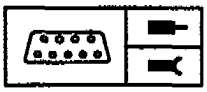
Pin	Type	Description/Function	Connection
1	A	Valve 1 (delayed setting)	Variable camshaft control valve 1
2	M	Ground	Ground
3	A	RxD diagnostic data link	Data link connector
4	E/A	CAN-High signal	Engine control module (DME)
5	M	Ground	Ground
6	E	Sensor 1 (output NW)	Variable camshaft control sensor 1
7		Not used	
8	E	Battery voltage	DME relay
9	A	Valve 2 (advanced setting)	Variable camshaft control valve 2
10	E	Fan signal	High speed relay (auxiliary fan)
11	E/A	TxD diagnostic data link	Data link connector
12	E/A	CAN-Low signal	Engine control module (DME)
13	E	Battery voltage	DME-relay
14	E	Sensor 2 (input NW)	Variable camshaft control sensor 2
15		Not used	

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay
2	A	Close winding control	Idle speed control valve
3	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
4	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
5	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
6	M	Ground, full injection output stages	Ground
7		Not used	
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10		Not used	
11		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
12	E	Oxygen sensor II signal	Heated oxygen sensor
13	E	Oxygen sensor I signal	Heated oxygen sensor
14	M	Ground, hot film air mass meter	Hot film air mass meter
15	E	Ignition control signal	Ground
16	E	Crankshaft position/RPM sensor signal	Crankshaft position/RPM sensor
17	E	Camshaft position sensor signal	Hall effect camshaft sensor
18		Not used	
19	A	Secondary air pump	Double relay
20		Not used	
21		Not used	
22		Not used	
23	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
24	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
25	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
26	E	Battery voltage	Jump start junction point
27	A	DME relay signal	Engine control module relay
28	M	Ground	Ground
29	A	Opening winding control	Idle speed control valve
30		Not used	
31	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
32	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
33	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
34	M	Ground, output stages	Ground
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37	A	Oxygen sensor heater control	Double relay
38		Not used	
39	M	Ground, oxygen sensor II	Heated oxygen sensor
40	M	Ground, oxygen sensor I	Heated oxygen sensor
41	E	Air mass meter signal	Hot film air mass meter
42	E	Vehicle speed signal	Instrument cluster
43	M	Ground, crankshaft sensor	Crankshaft position/RPM sensor

E = Input, A = Output, M = Ground

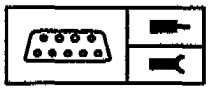
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Pin Assignments

Pin	Type	Description/Function	Connection
44	M	Ground, camshaft sensor	Hall effect camshaft sensor
45		Not used	
46	A	Ti-measurement signal (fuel consumption)	Instrument cluster/On-board computer
47	A	Crankshaft RPM speed signal TD	Instrument cluster
48	E	A/C compressor signal	Compressor control relay
49		Not used	
50	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
51	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
52	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
53		Not used	
54	E	Battery voltage	Engine control module (DME)
55	M	Ground, ignition	Ground
56	E	Voltage, terminal 15	Ignition switch
57		Not used	
58		Not used	
59	A	5V voltage supply	Throttle position sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64	E	A/C signal	Integrated climate regulation control module
65	E	A/C pressure signal	Pressure switch/Auxiliary VENT I
66	E	Drive away protection signal	Electronic immobilizer control module (EWS II)
67		Not used	
68	E	Knock sensor signal	Cyl. 5-6 knock sensor
69	E	Knock sensor signal	Cyl. 3-4 knock sensor
70	E	Knock sensor signal	Cyl. 1-2 knock sensor
71	M	Ground, knock sensors and shields	Knock sensors and shields
72		Not used	
73	E	Throttle position	Throttle position sensor
74		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81		Not used	
82	E	Start revolution signal	Ignition switch
83		Not used	
84	M	Shield	Ground
85	E/A	CAN-Low signal	Variable camshaft control module
86	E/A	CAN-High signal	Variable camshaft control module
87	A	RxD diagnostic data link	Data link connector
88	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

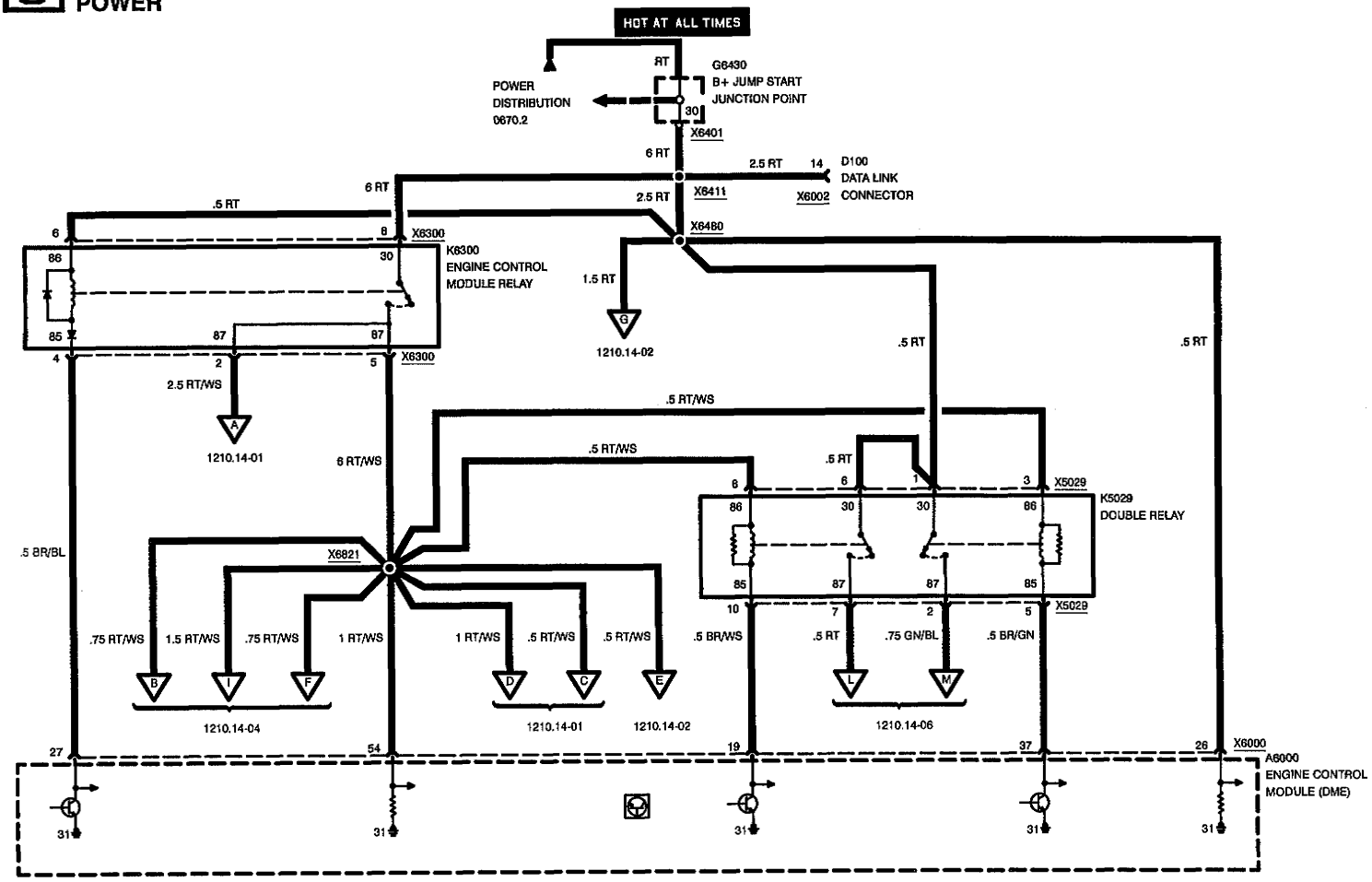
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ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)

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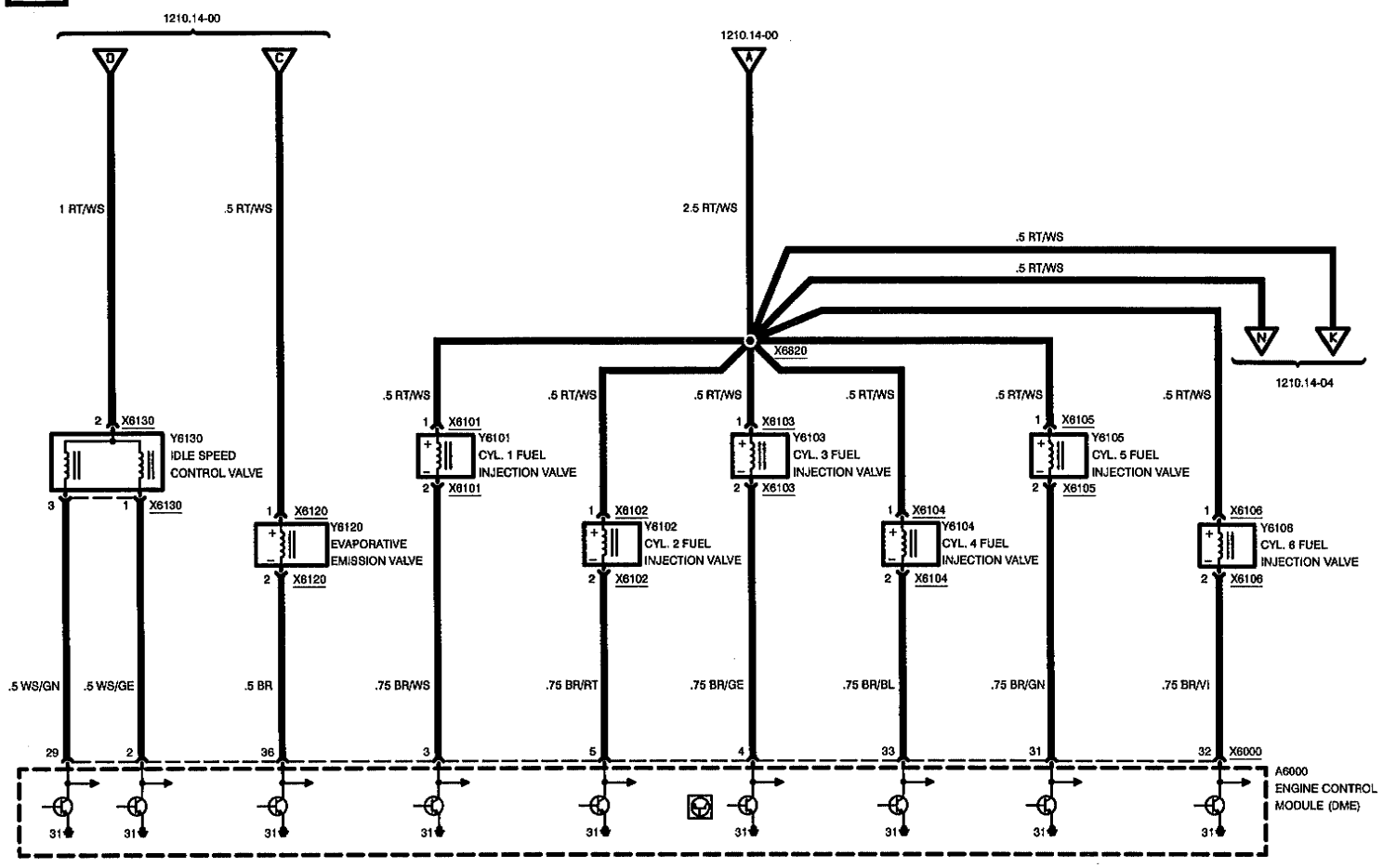
POWER



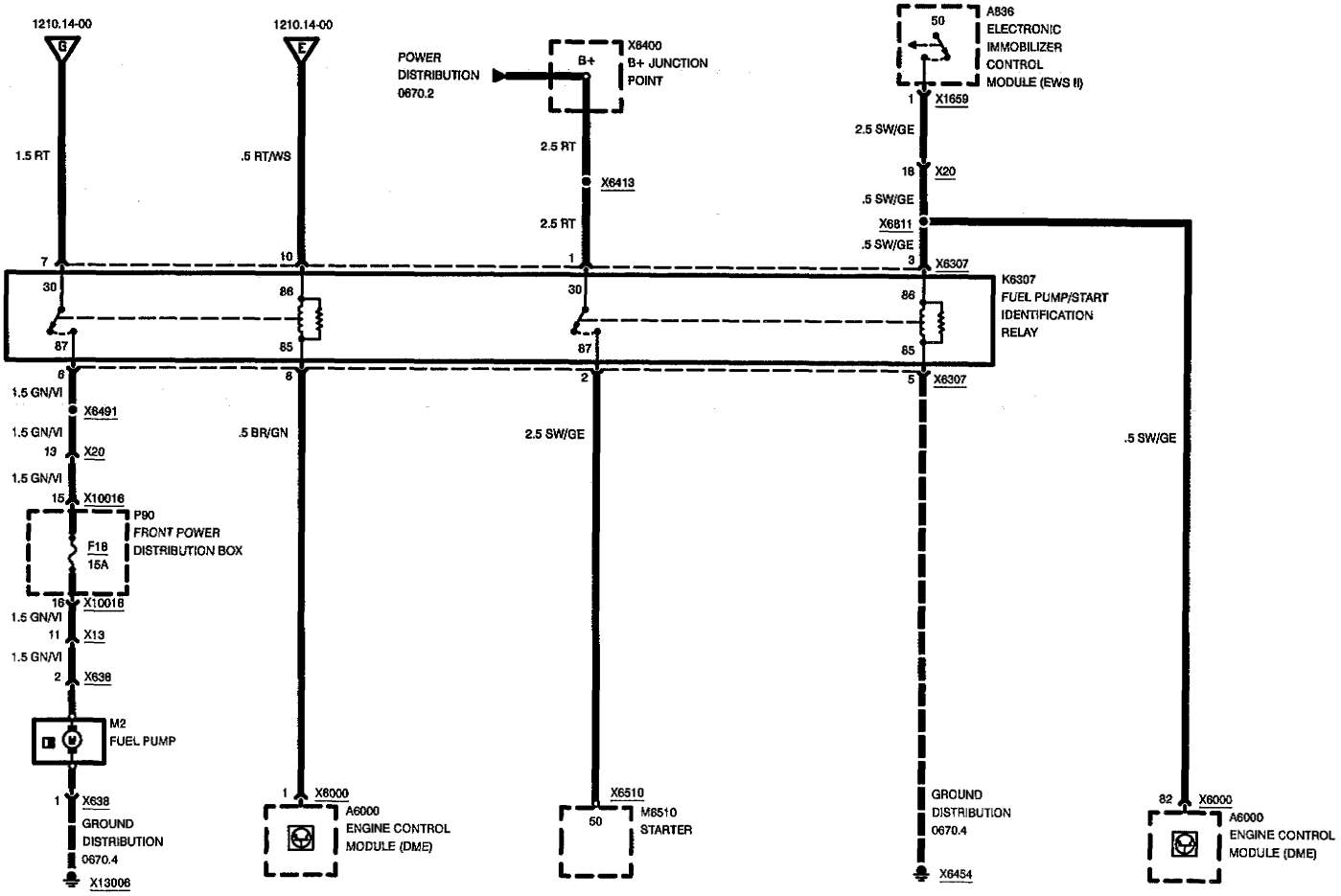
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ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)

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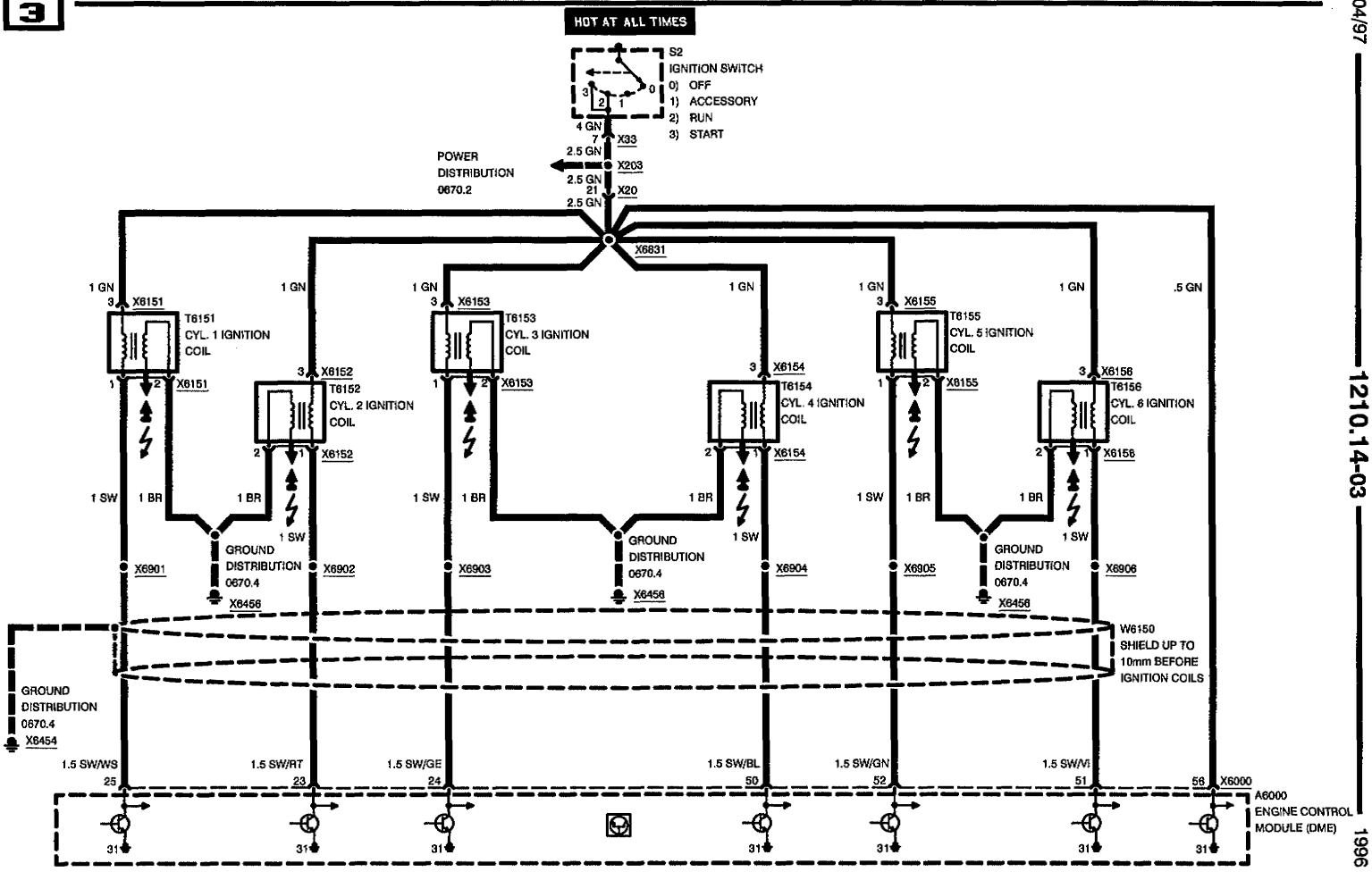
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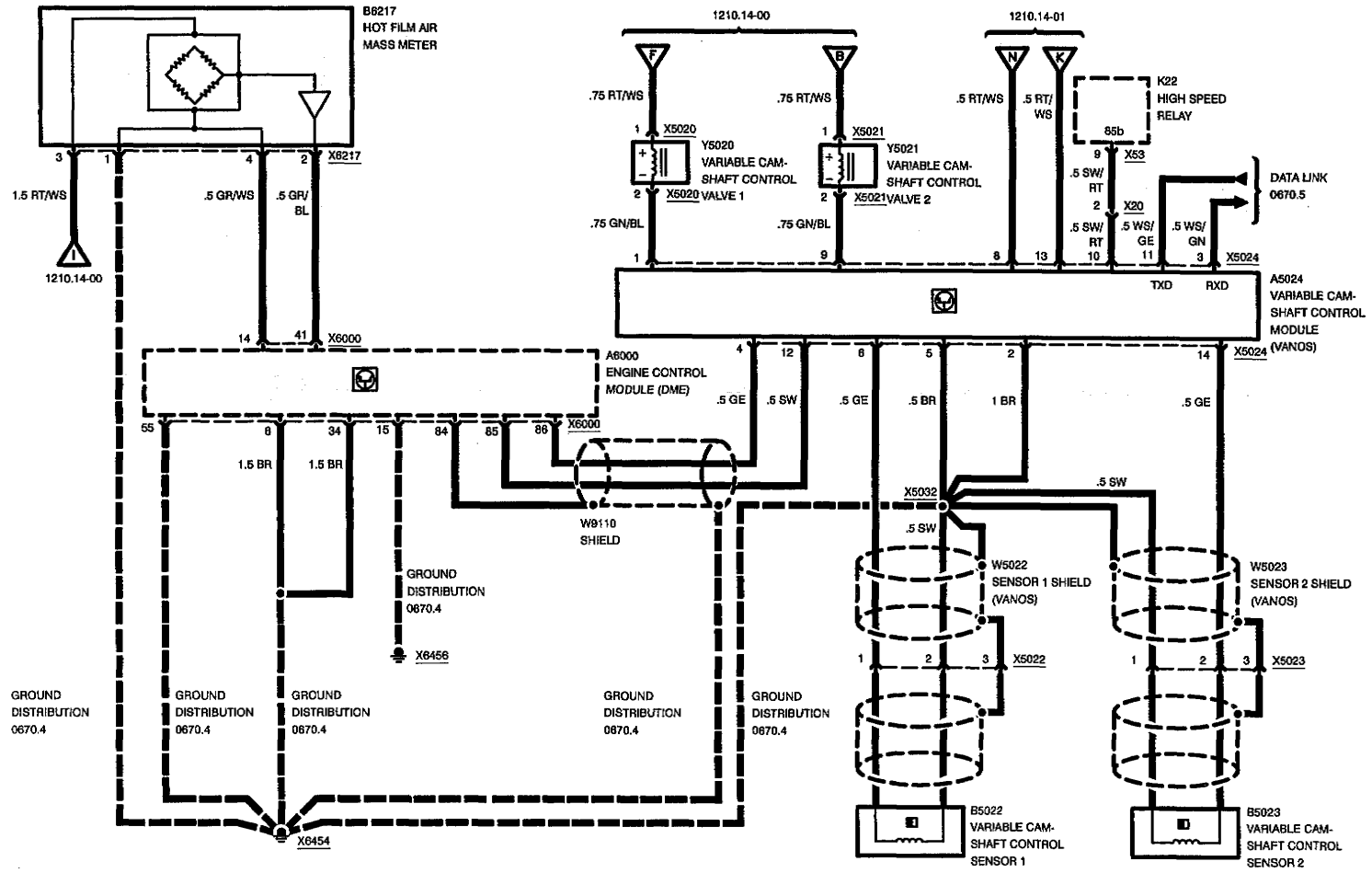
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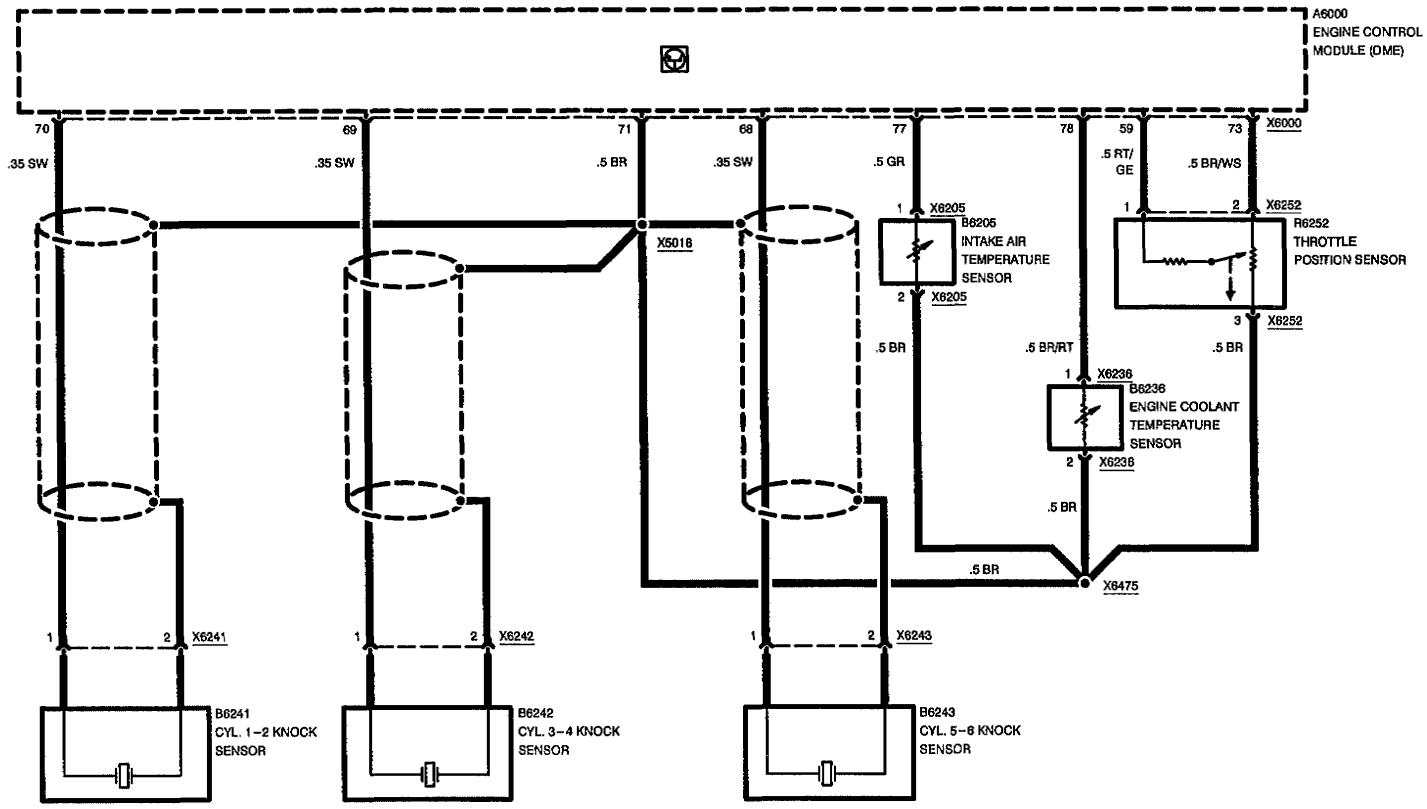
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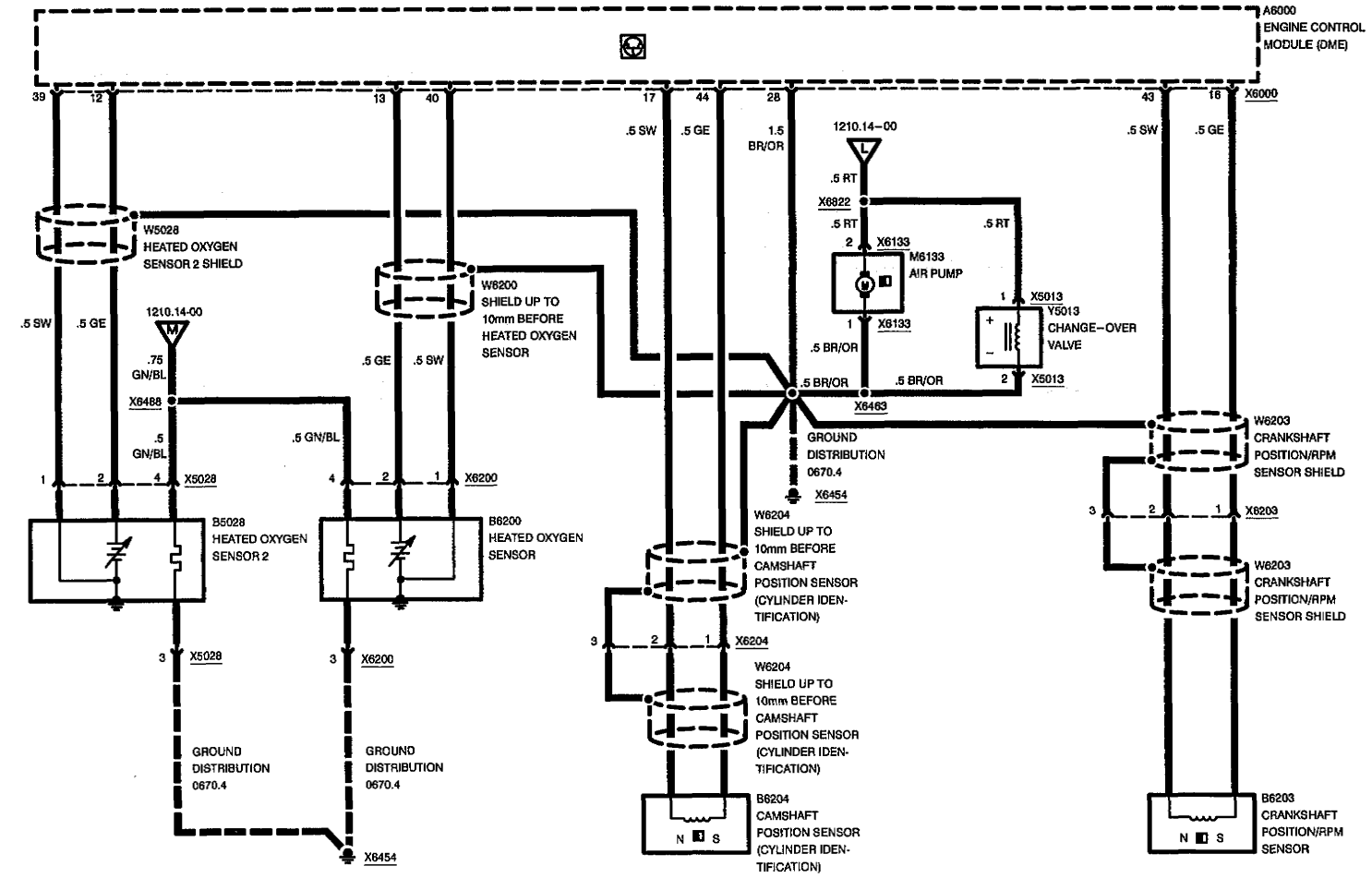
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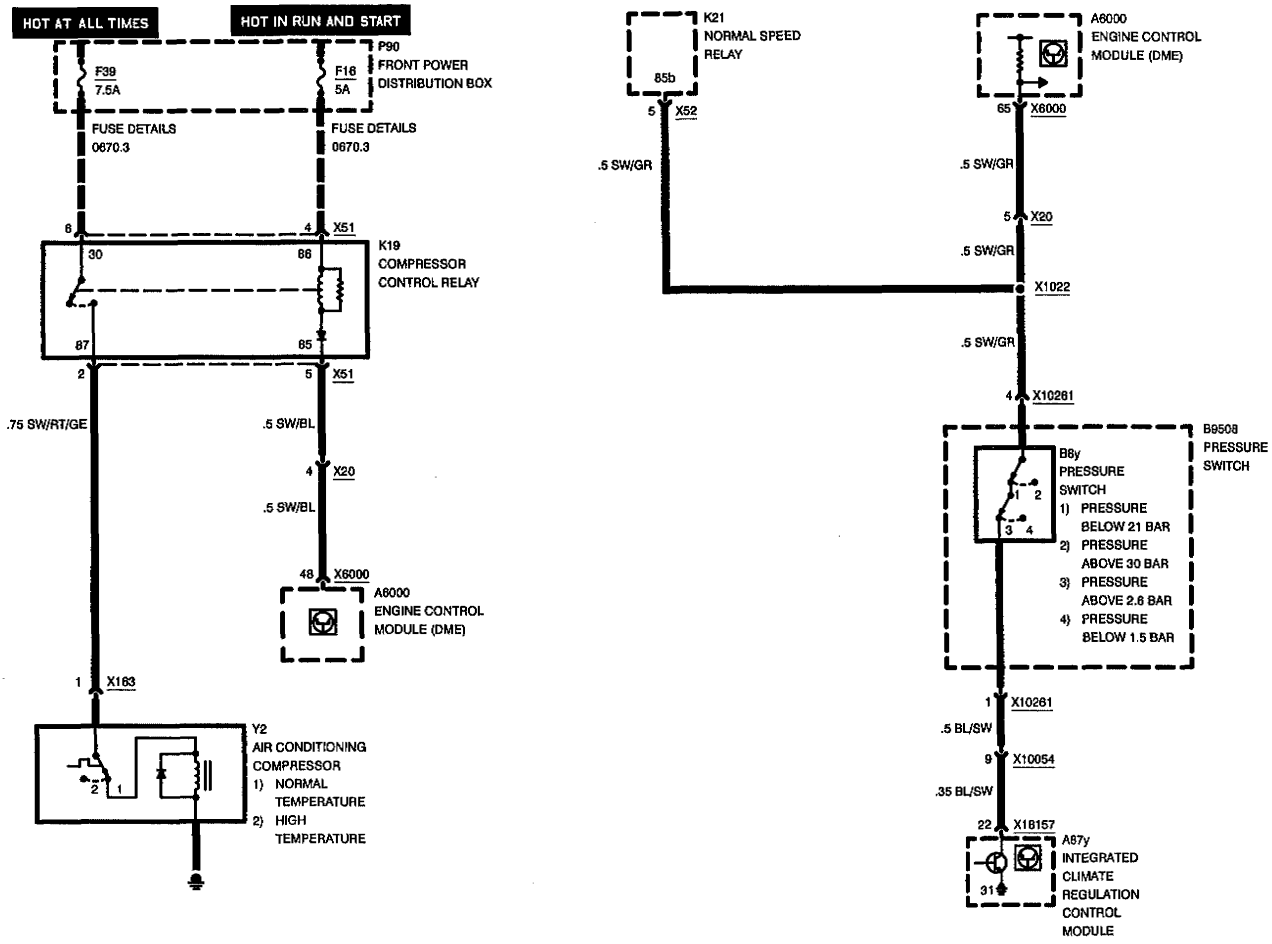
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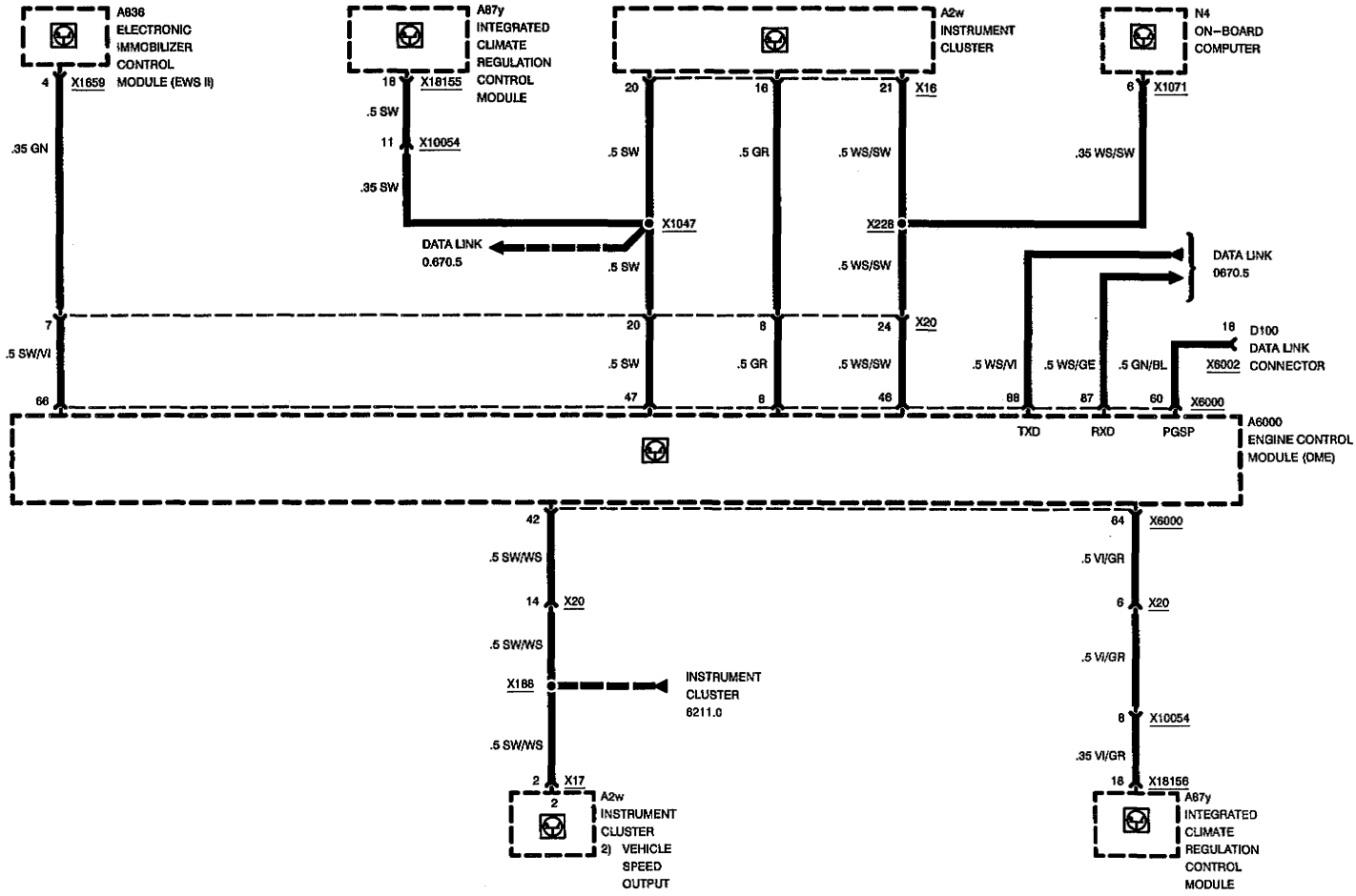
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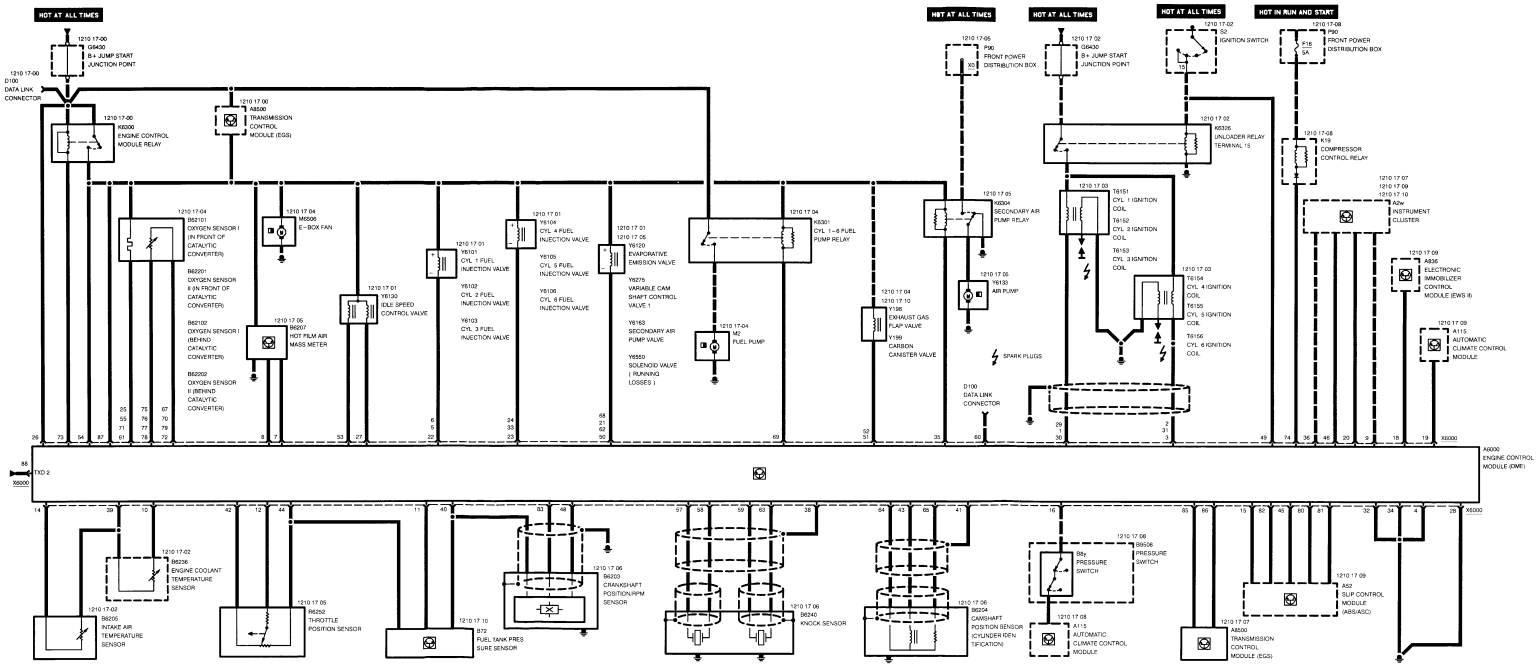
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ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)

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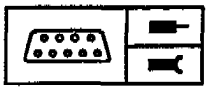
Pin Assignments

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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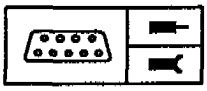


Pin Assignments

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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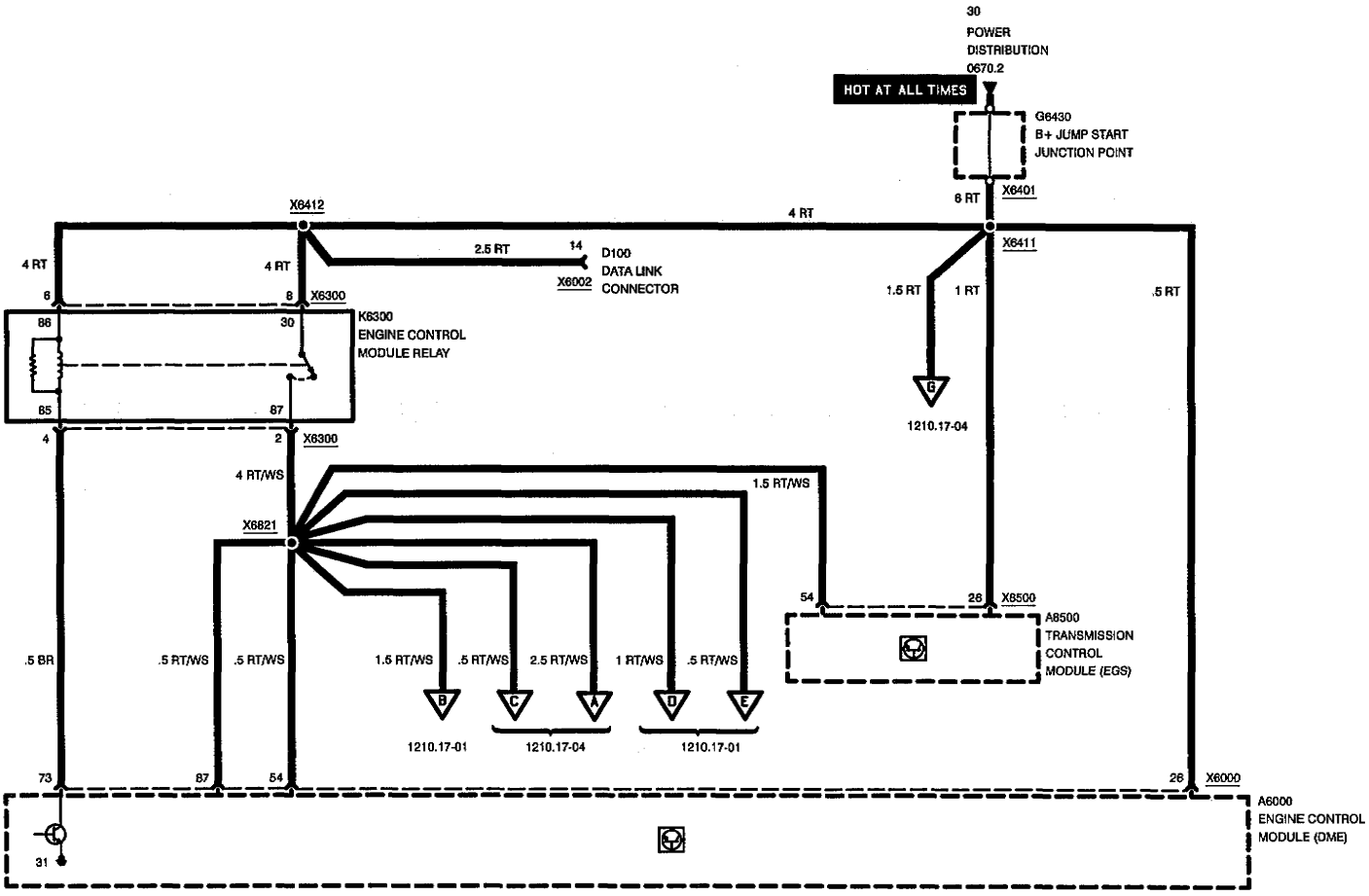


Pin Assignments

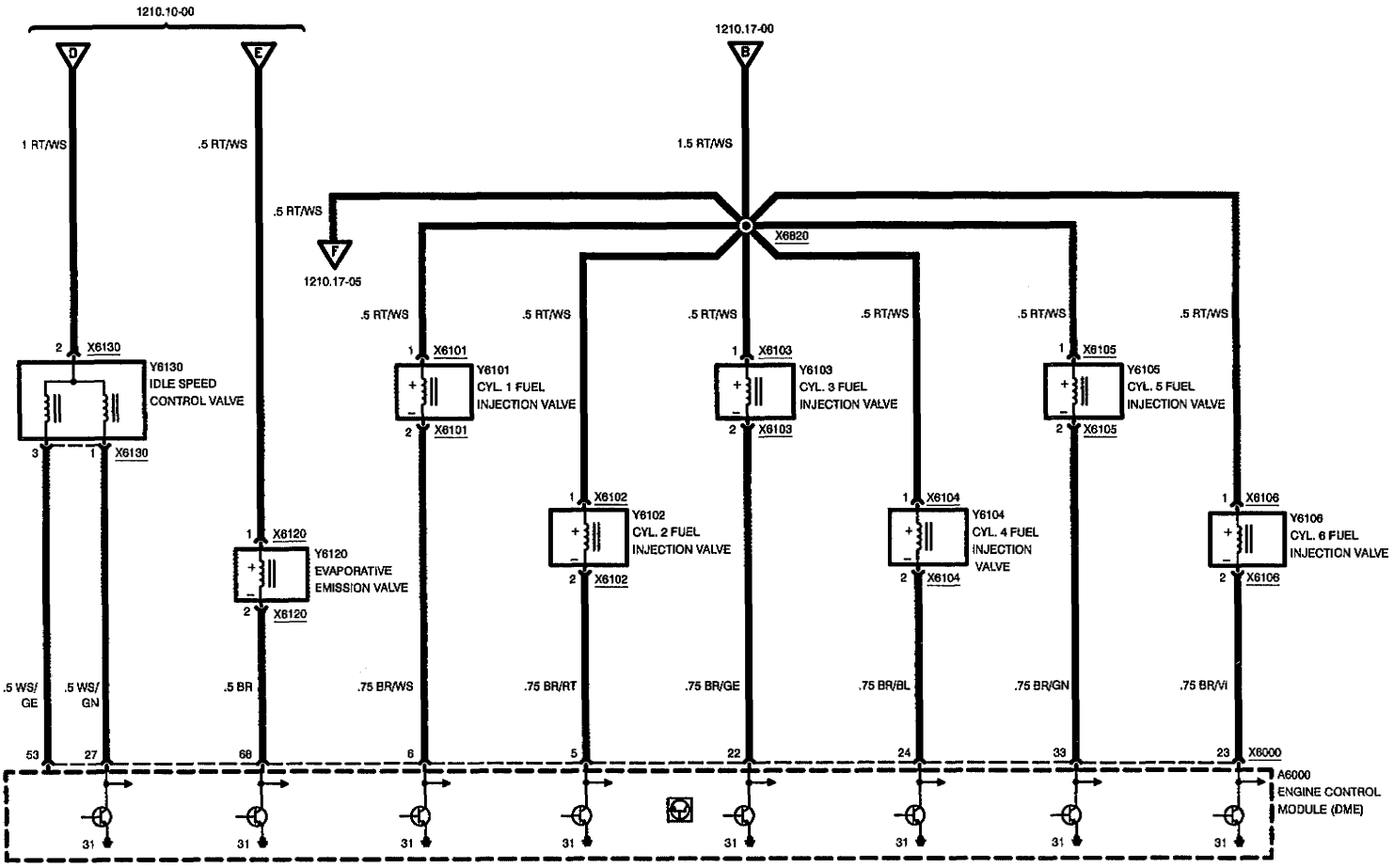
Pin	Type	Description/Function	Connection
60	E	Programming voltage	Data link connector
61	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
62	A	Activate valve	Secondary air pump value
63	E	Cyl. 4-6 knock sensor	Knock sensor
64	M	Ground	Camshaft position sensor
65	E	Camshaft position	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

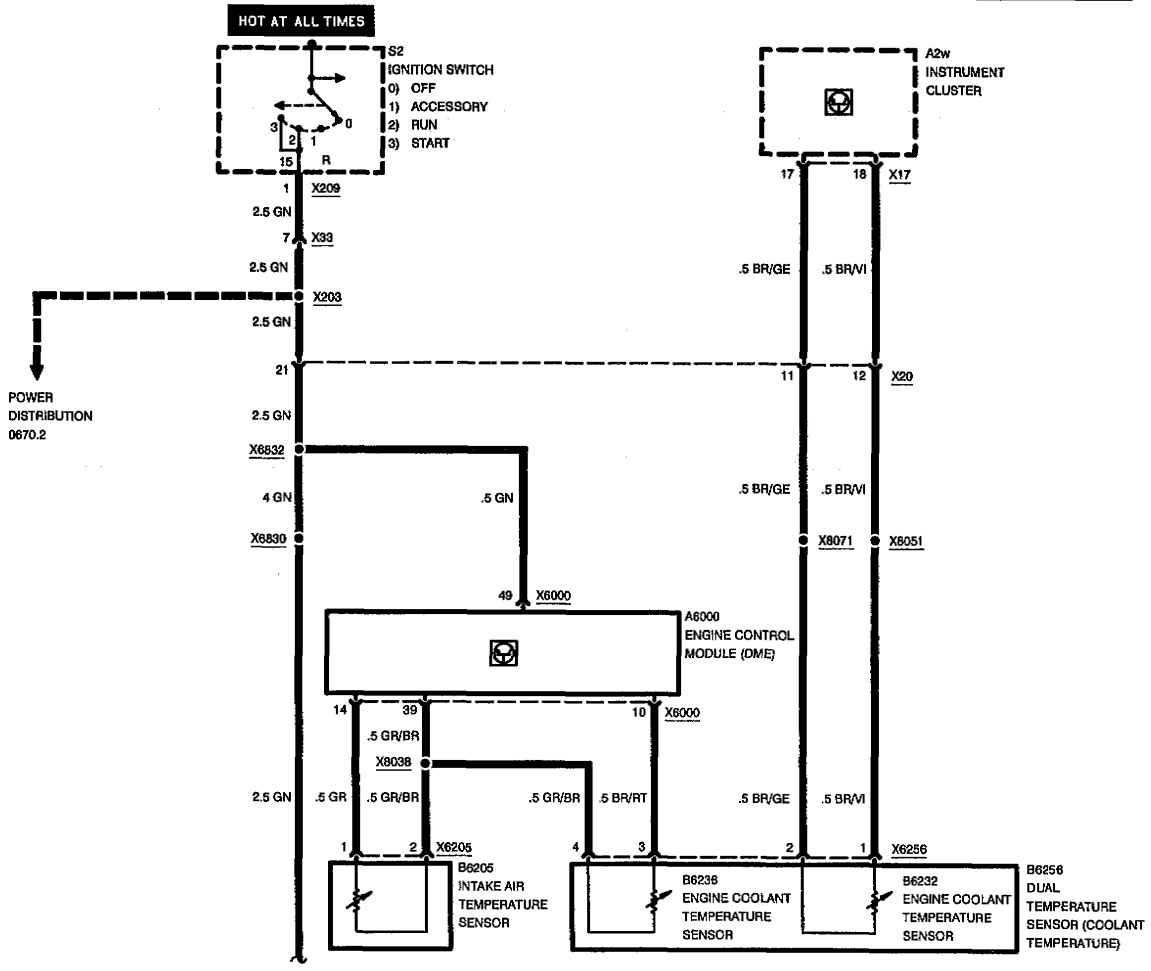
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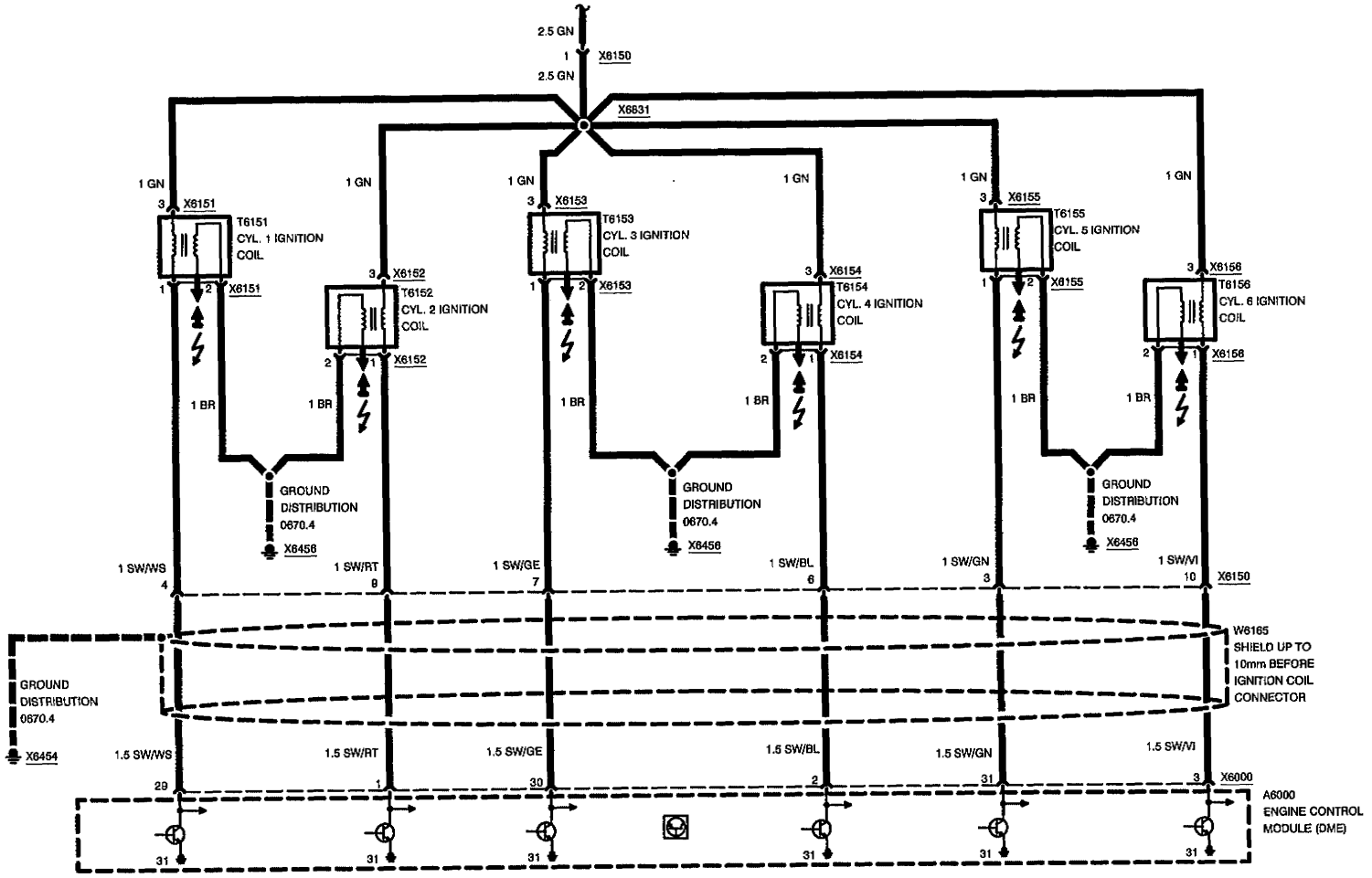
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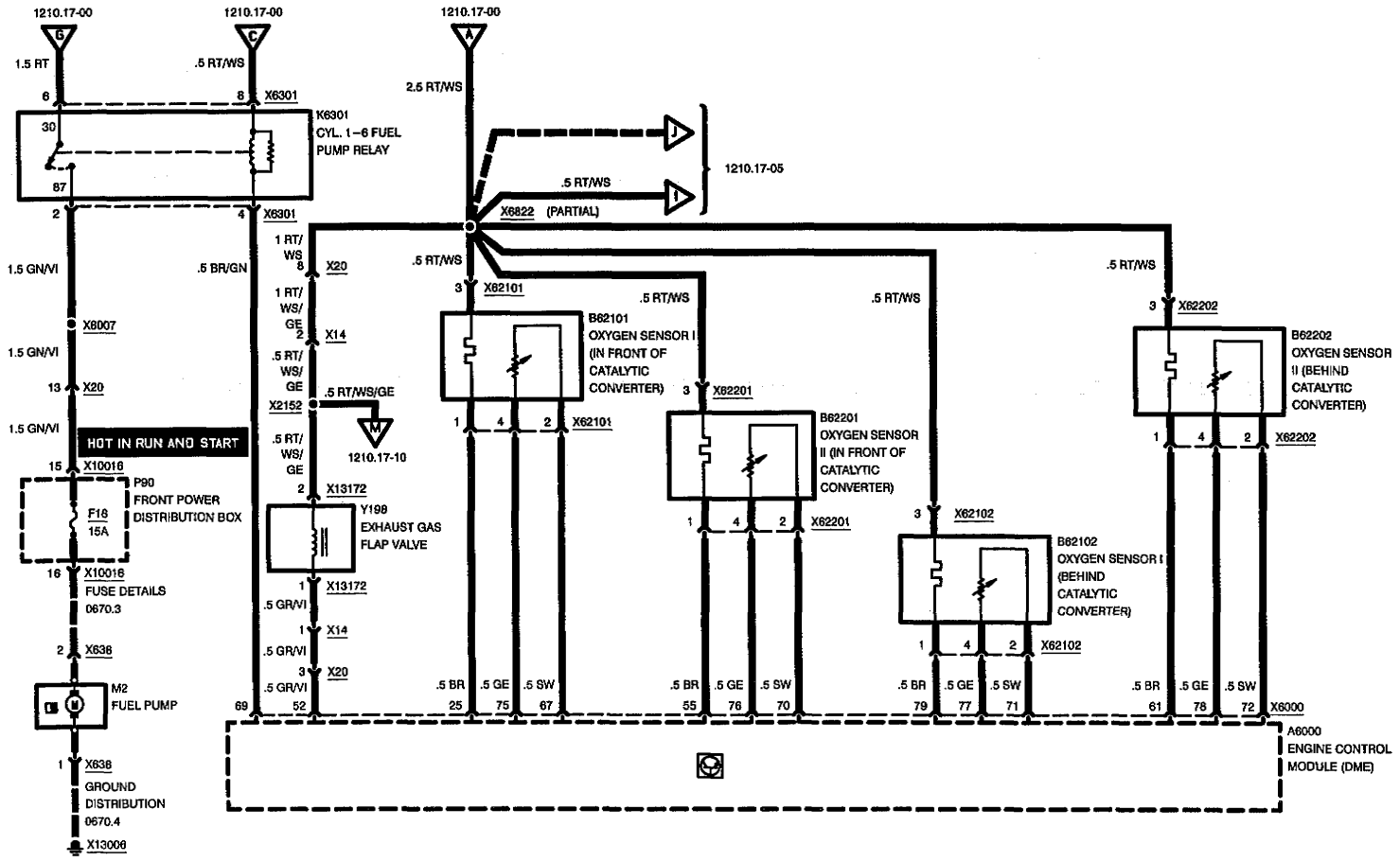
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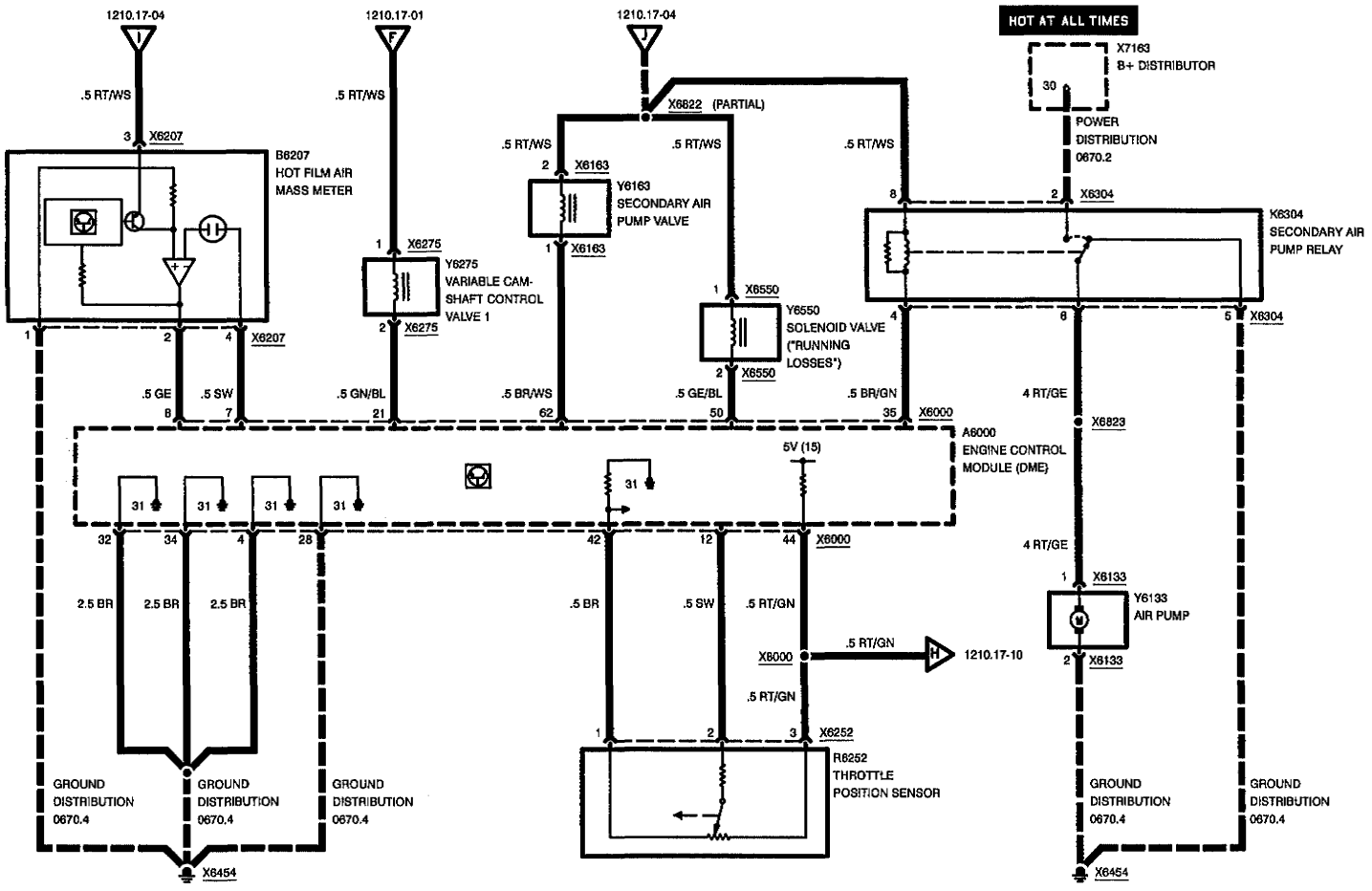
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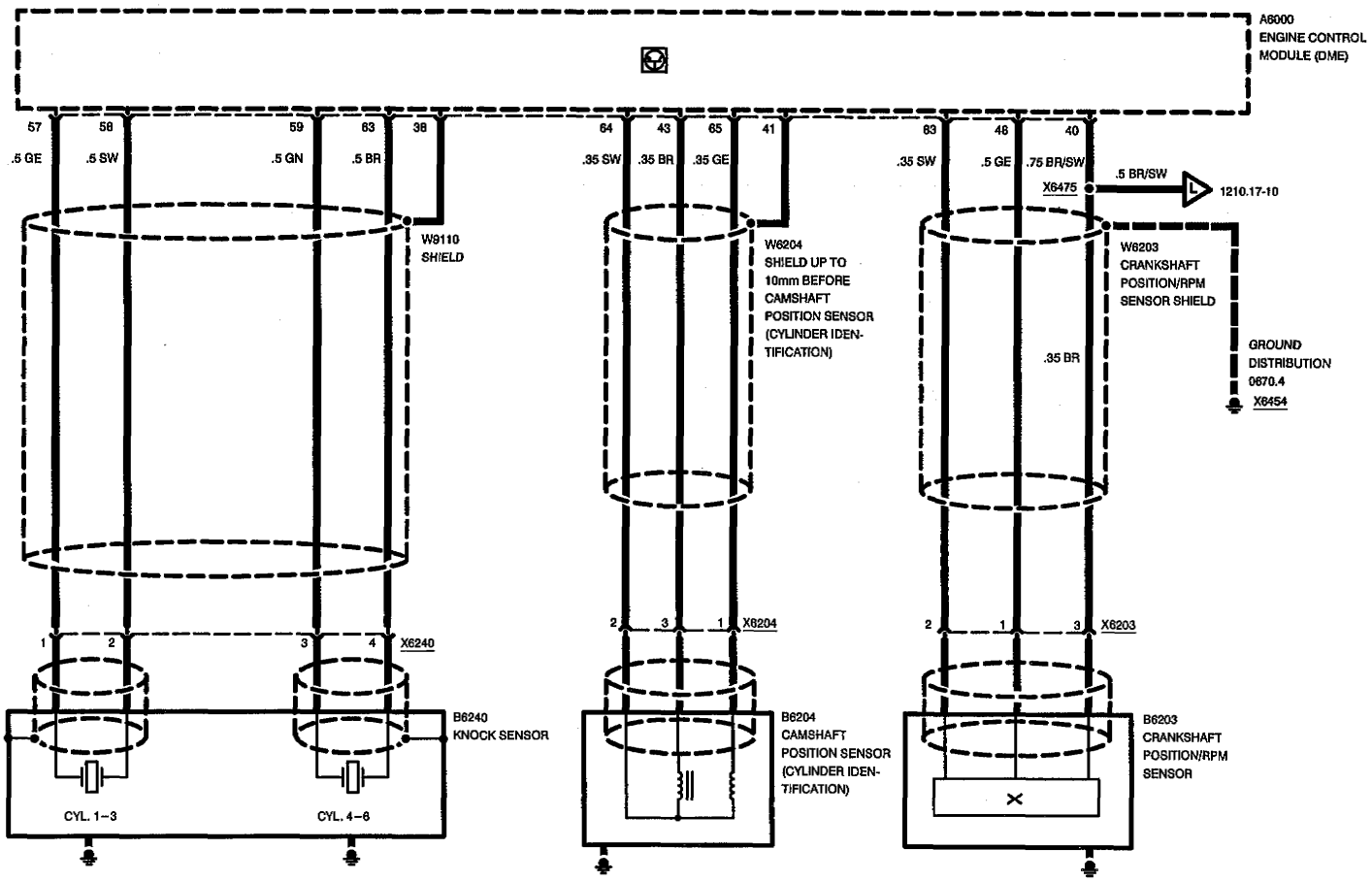
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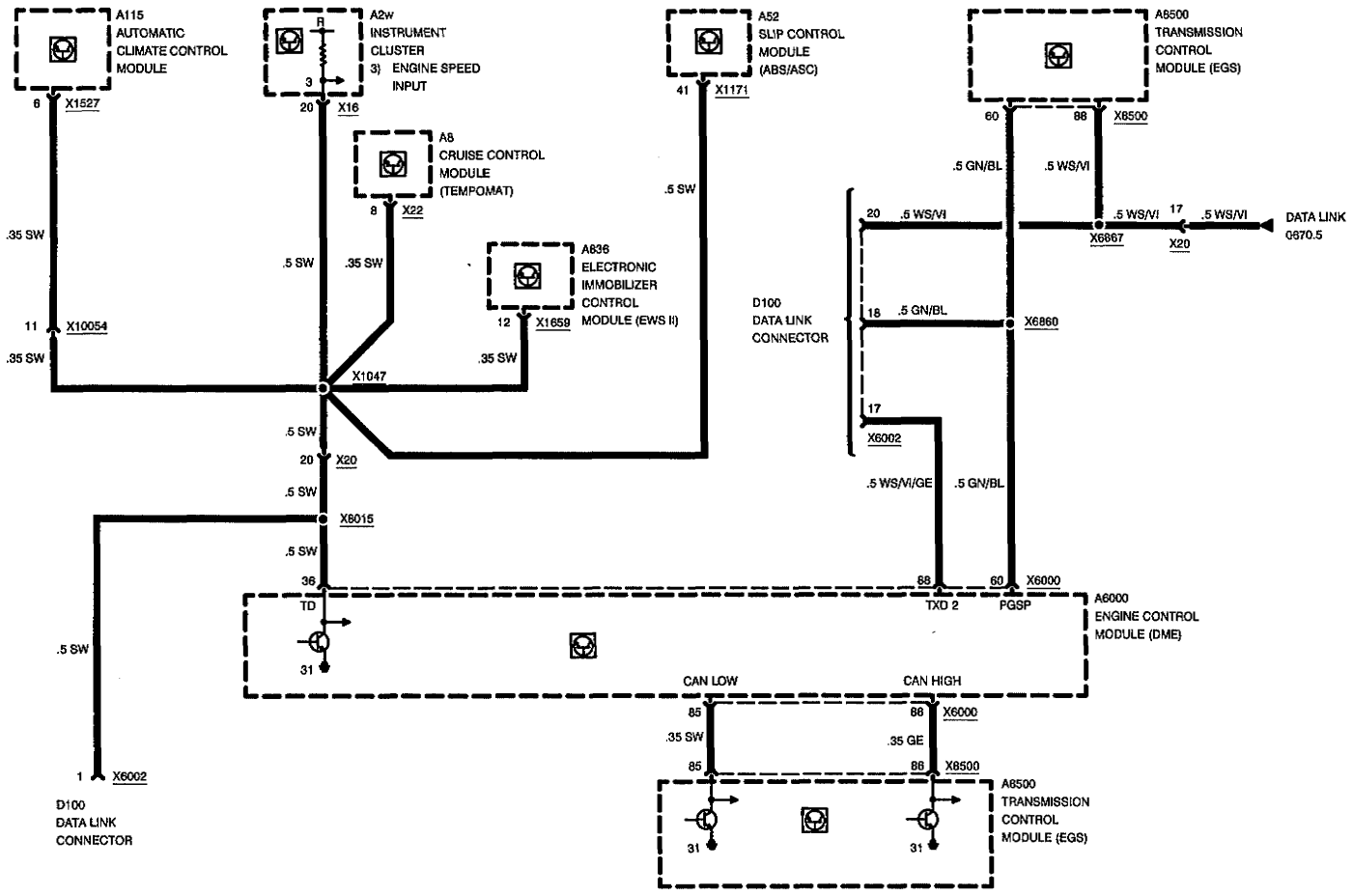
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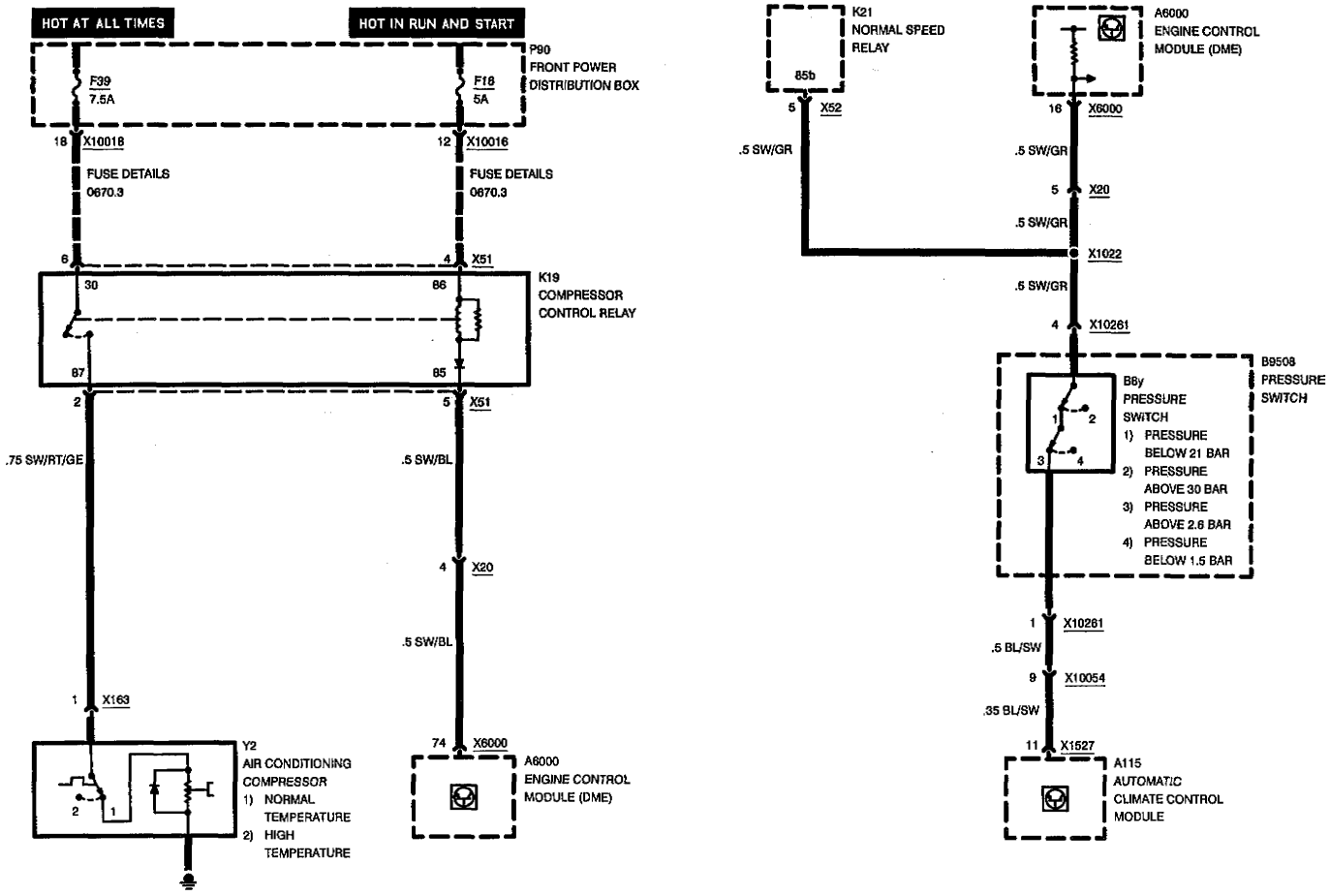
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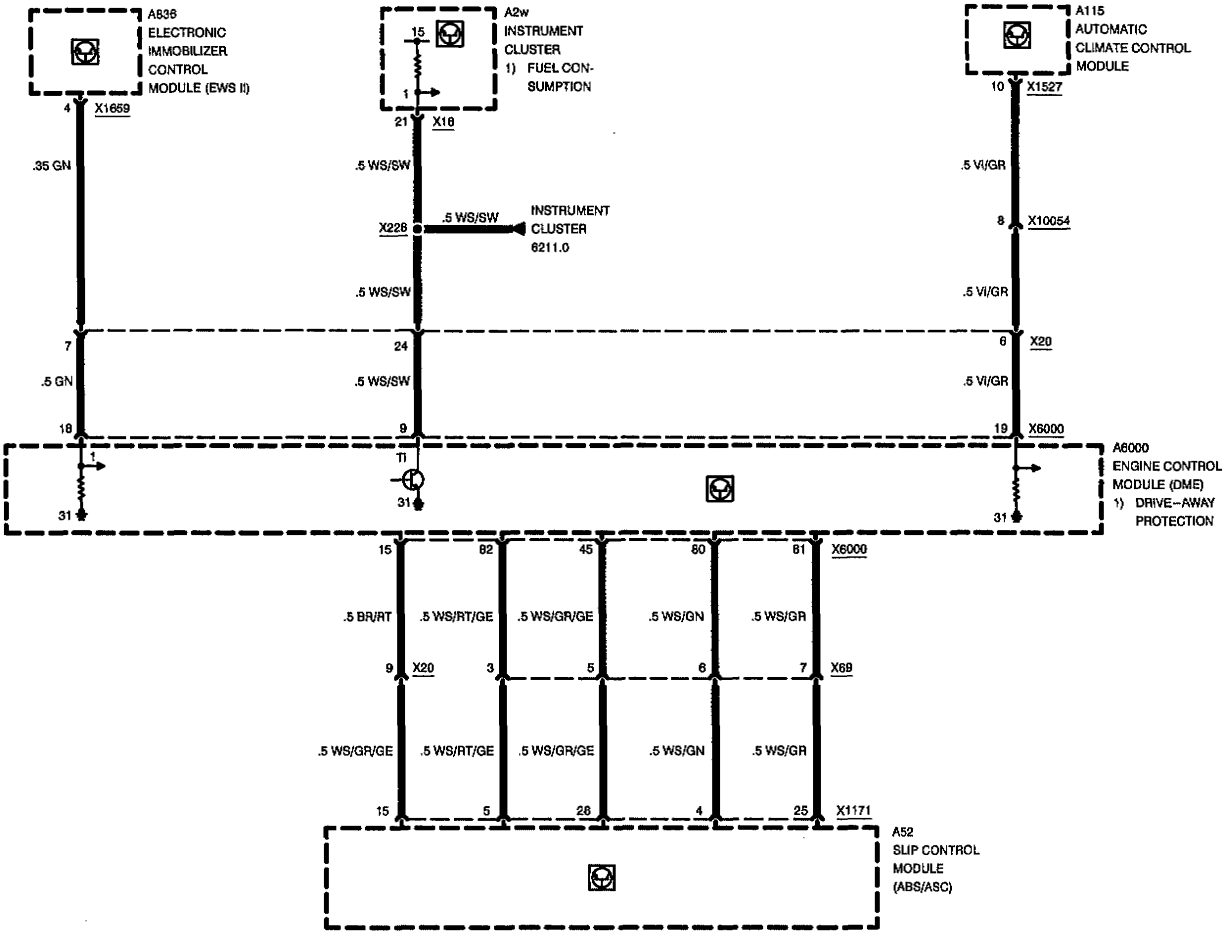
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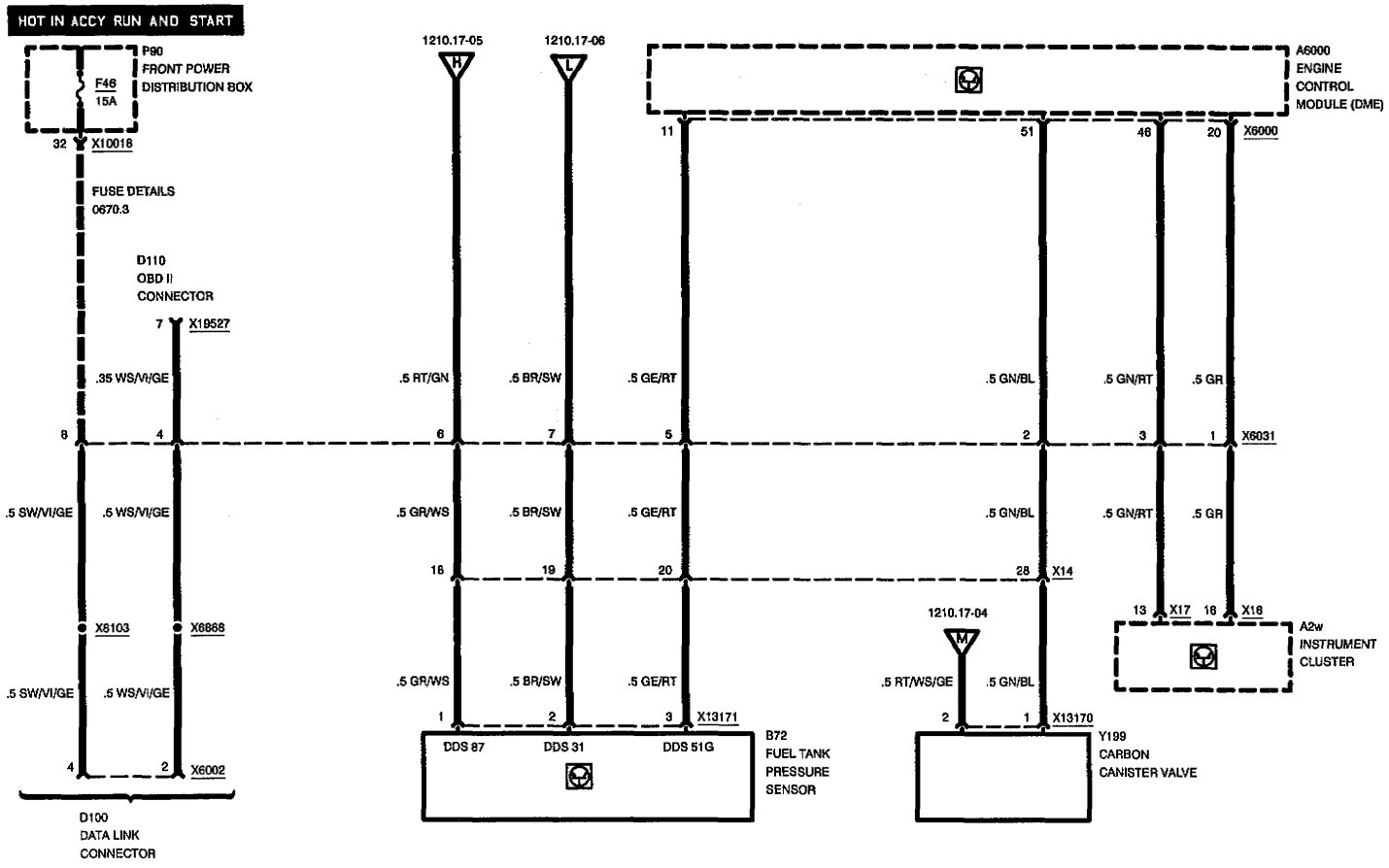
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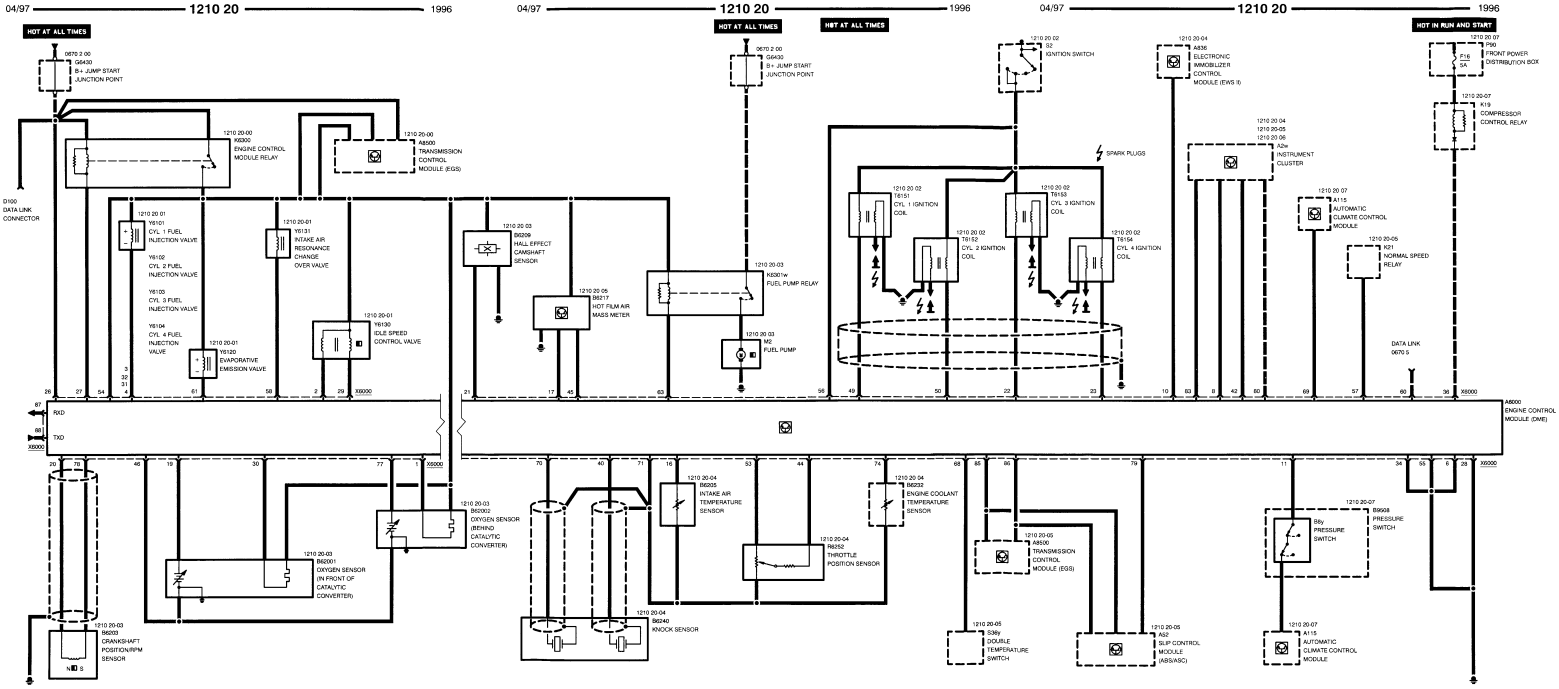
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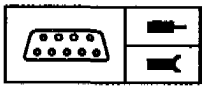
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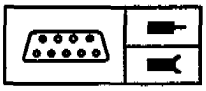
Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
2	A	Activate valve	Idle speed control valve
3	A	Activate valve	Cyl. 1 fuel injection valve
4	A	Activate valve	Cyl. 4 fuel injection valve
5		Not used	
6	M	Ground, fuel injection valve output stages	Ground point
7		Not used	
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10	E	Drive away protection signal	Electronic immobilizer control module (EWS II)
11	E	Activate A/C	Pressure switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16	E	Intake air temperature	Intake air temperature sensor
17	M	Ground	Hot film air mass meter
18		Not used	
19	E	Oxygen sensor signal	Oxygen sensor (in front of catalytic converter)
20	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
21	E	Camshaft position	Hall effect camshaft sensor
22	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
23	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
24		Not used	
25		Not used	
26	E	Battery voltage	B+ jump start junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point

E = Input, A = Output, M = Ground

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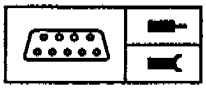


Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Idle speed control valve control	Idle speed control valve
30	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
31	A	Activate valve	Cyl. 3 fuel injection valve
32	A	Activate valve	Cyl. 2 fuel injection valve
33		Not used	
34	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	A/C compressor cut-out	Compressor control relay
37		Not used	
38		Not used	
39		Not used	
40	E	Cyl. 3-4 knock sensor	Knock sensor
41		Not used	
42	E	Ti-measurement signal (fuel consumption)	Instrument cluster
43		Not used	
44	E	Throttle position	Throttle position sensor
45	E	Signal input	Hot film air mass meter
46	M	Sensor ground	Oxygen sensors
47		Not used	
48		Not used	
49	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
50	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
51		Not used	
52		Not used	
53	A	Component supply +	Throttle position sensor
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch, terminal 15
57	A	Activate auxiliary fan	Normal speed relay
58	A	Activate valve	Intake air resonance change over valve

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
59		Not used	
60	E	Programming voltage	Data link connector
61	A	Activate valve	Evaporation emission valve
62		Not used	
63	A	Activate relay	Fuel pump relay
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68	E	Signal above 80°C	Double temperature switch
69	E	Signal A/C on	Air conditioning operating unit
70	E	Cyl 1-2 knock sensor	Knock sensor
71	M	Ground for sensors	Temperature-/ knock-/ throttle position-sensors
72		Not used	
73		Not used	
74	E	Temperature signal	Engine coolant temperature sensor
75		Not used	
76		Not used	
77	E	Oxygen sensor signal	Oxygen sensor (behind catalytic converter)
78	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
79	E	Speed signal right rear	ABS/ASC control module
80	A	Crankshaft RPM speed signal TD	Instrument cluster
81		Not used	
82		Not used	
83	E	Vehicle speed signal	Instrument cluster
84		Not used	
85	E/A	CAN-LOW	EGS/ASC control module
86	E/A	CAN-HIGH	EGS/ASC control module
87	A	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

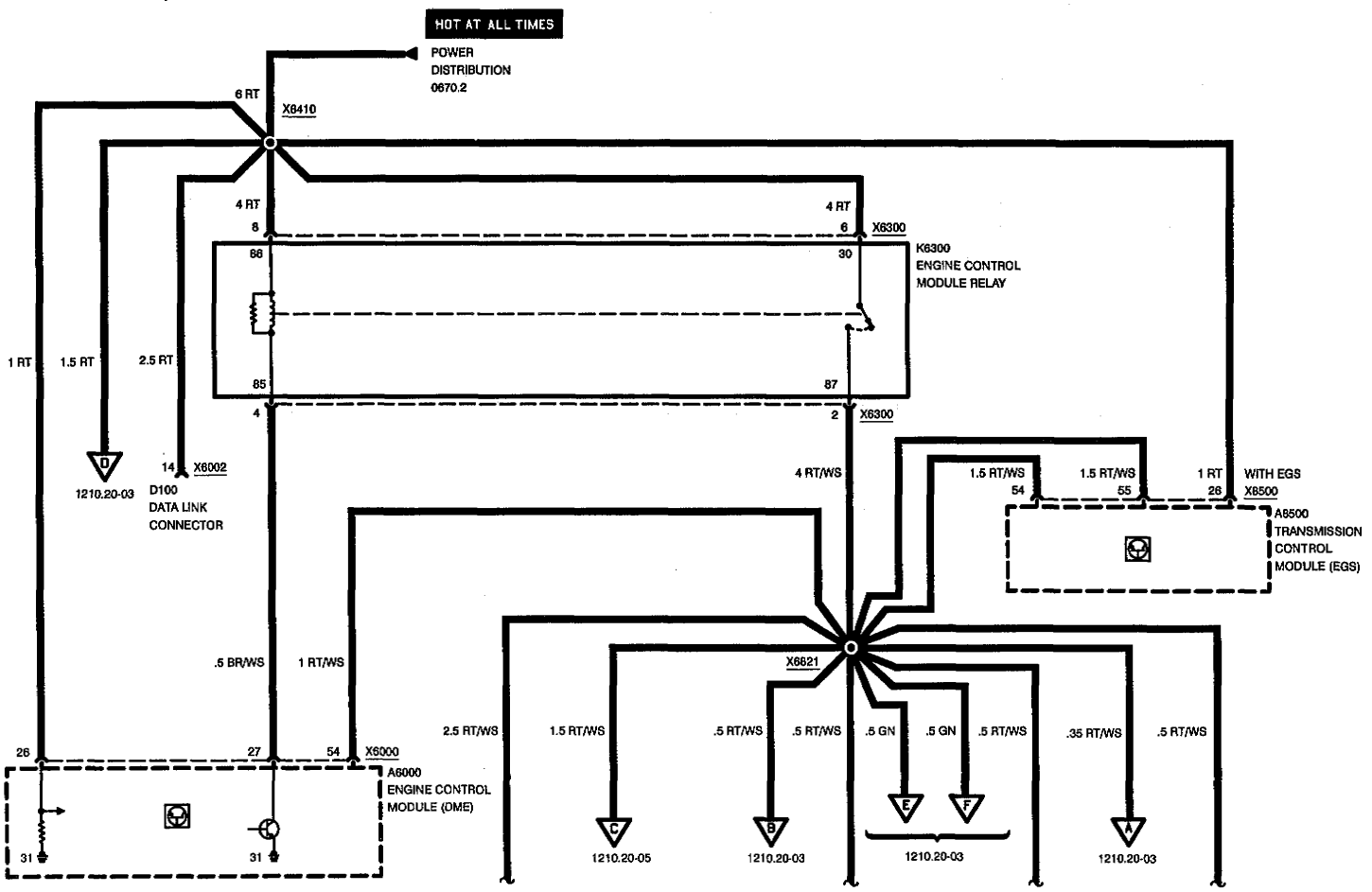
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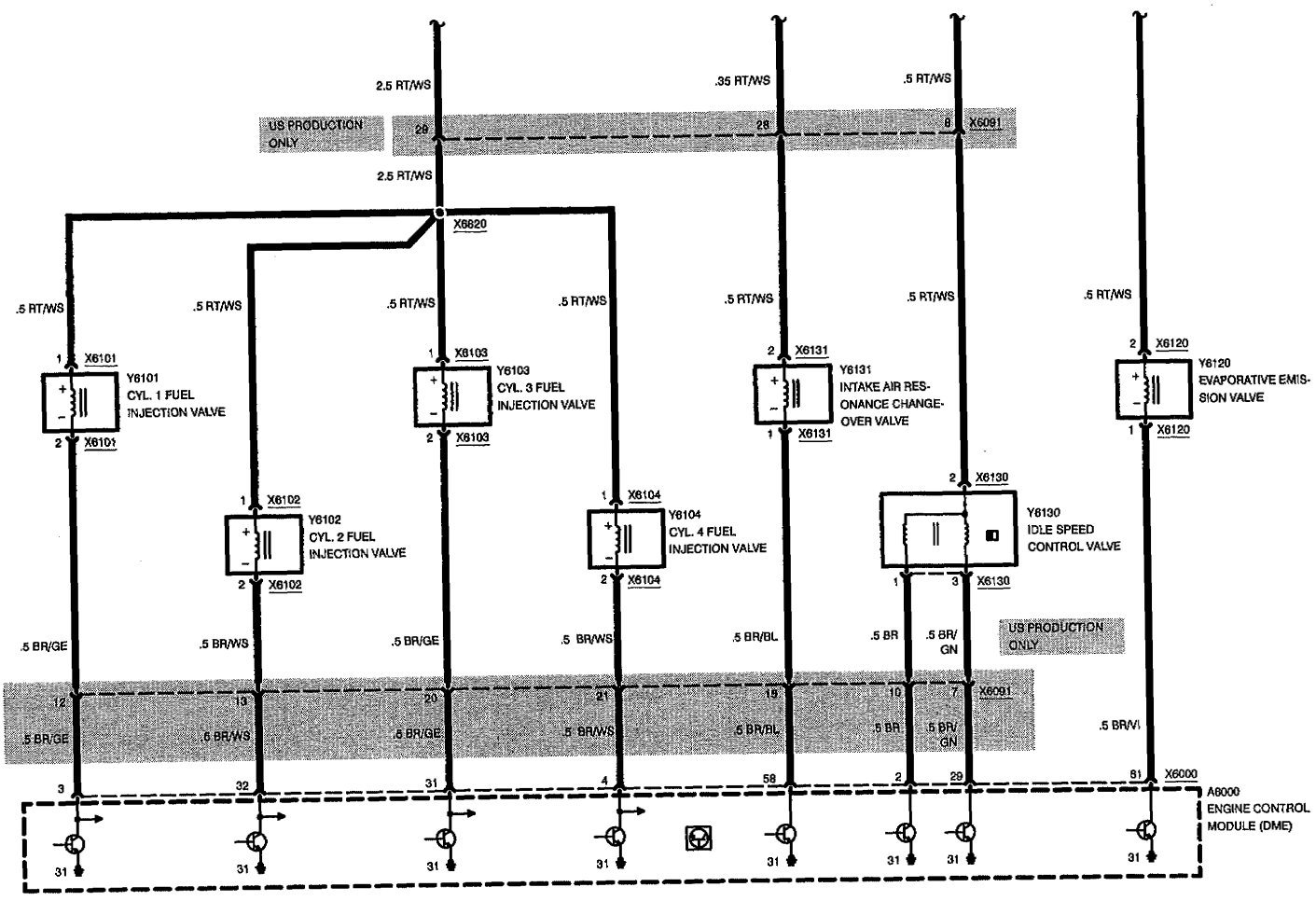
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

POWER, FUEL INJECTION VALVES

LATE PRODUCTION



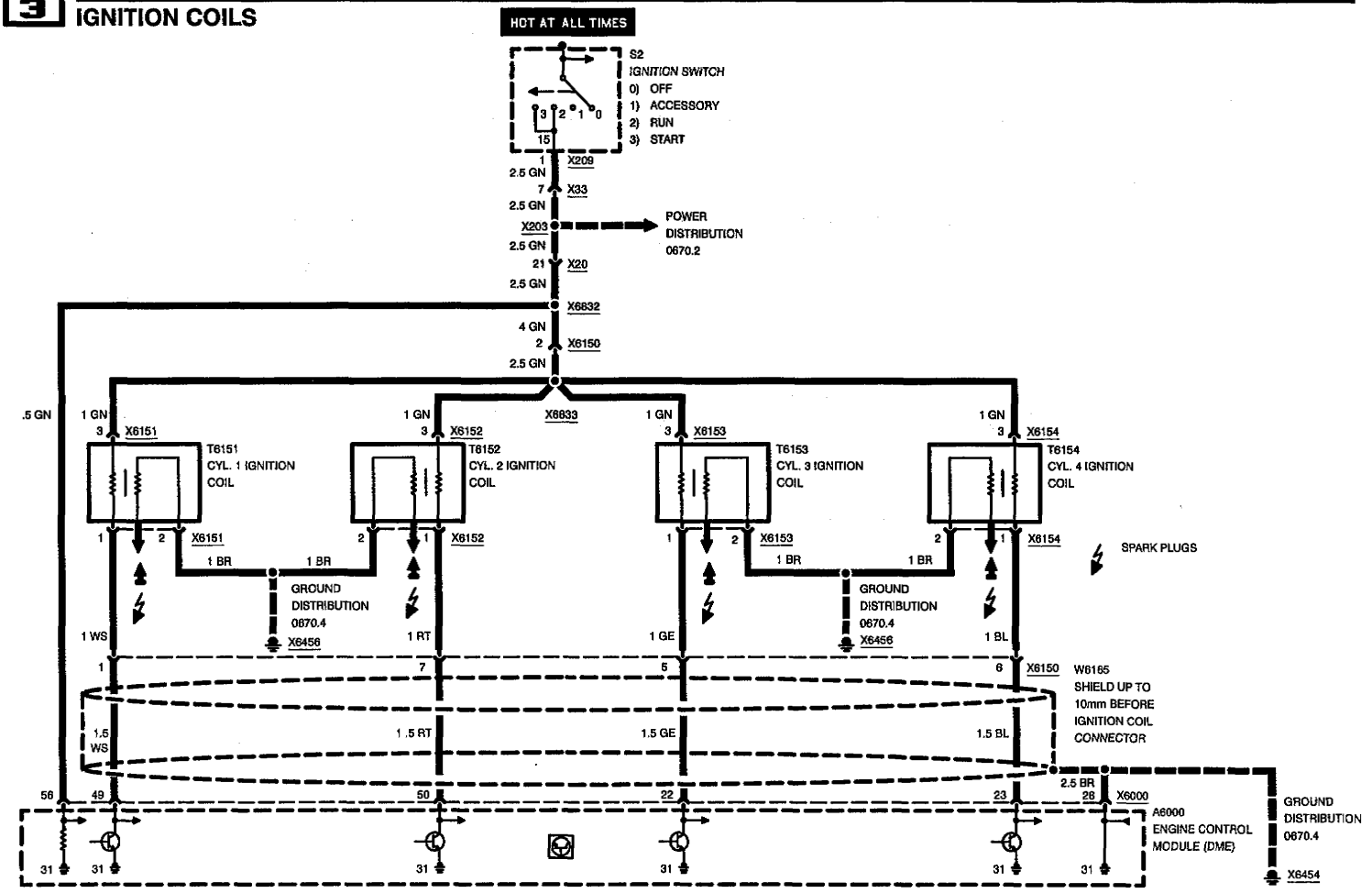
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ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

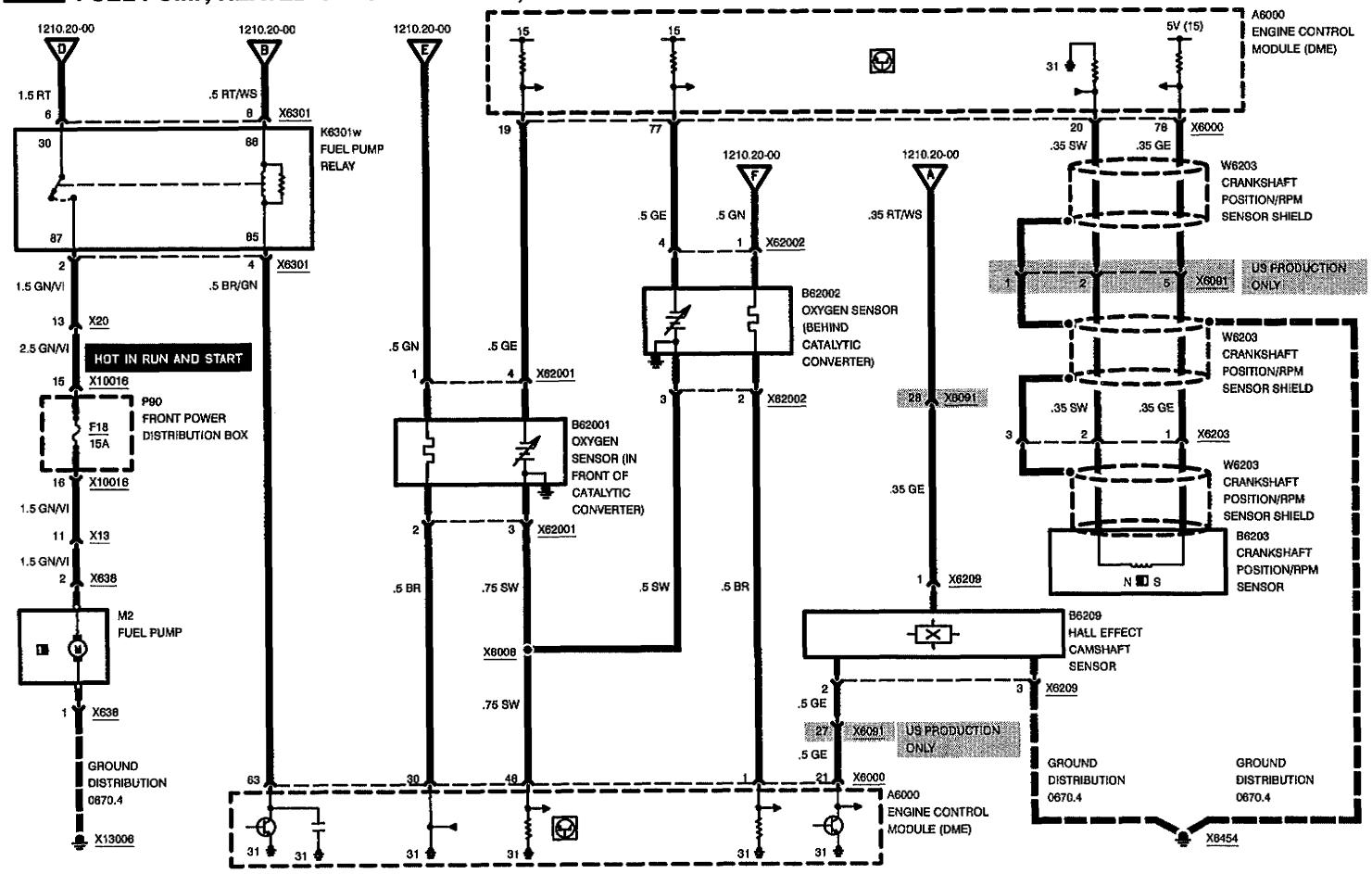
IGNITION COILS



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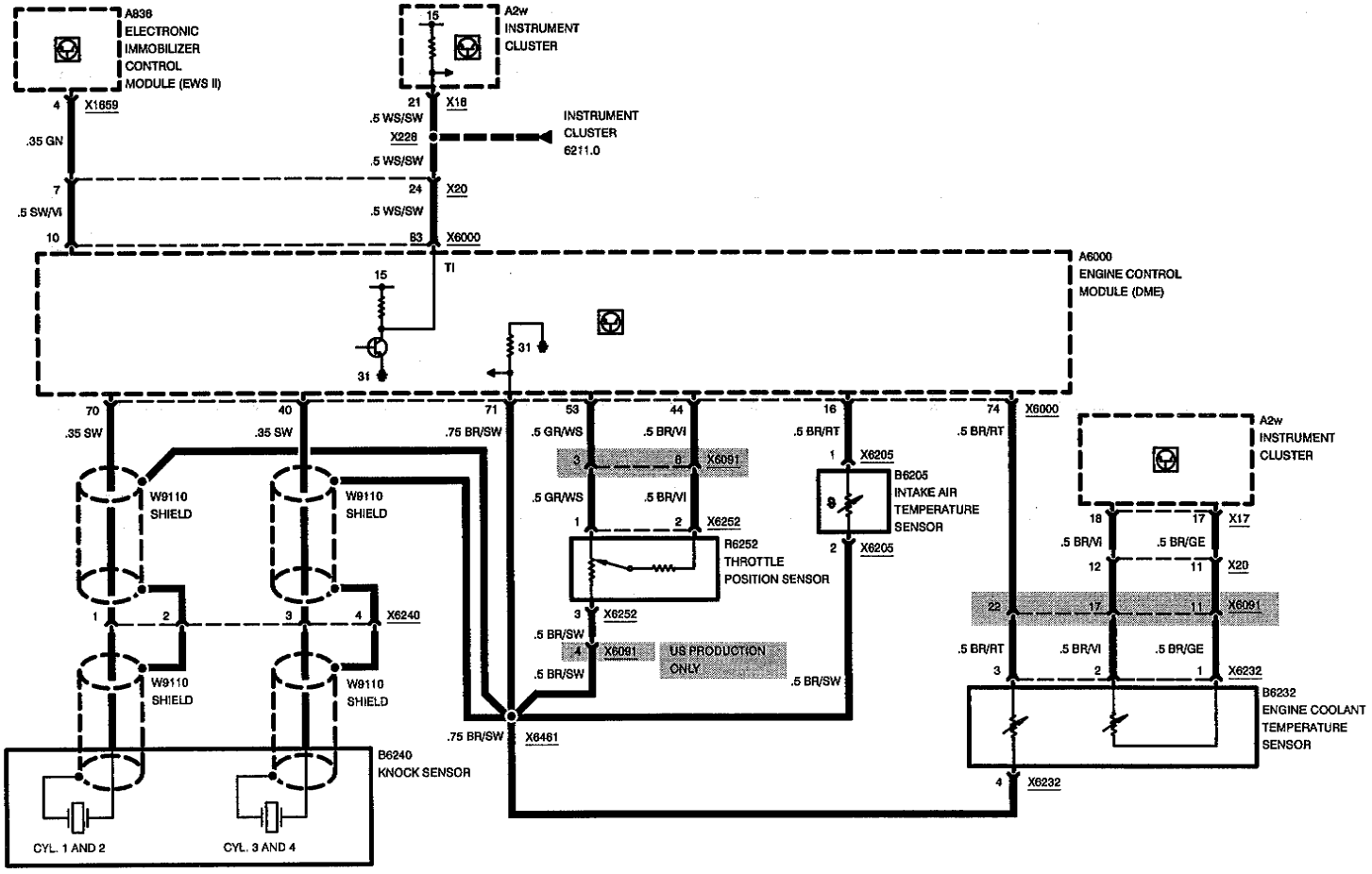
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

FUEL PUMP, HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS



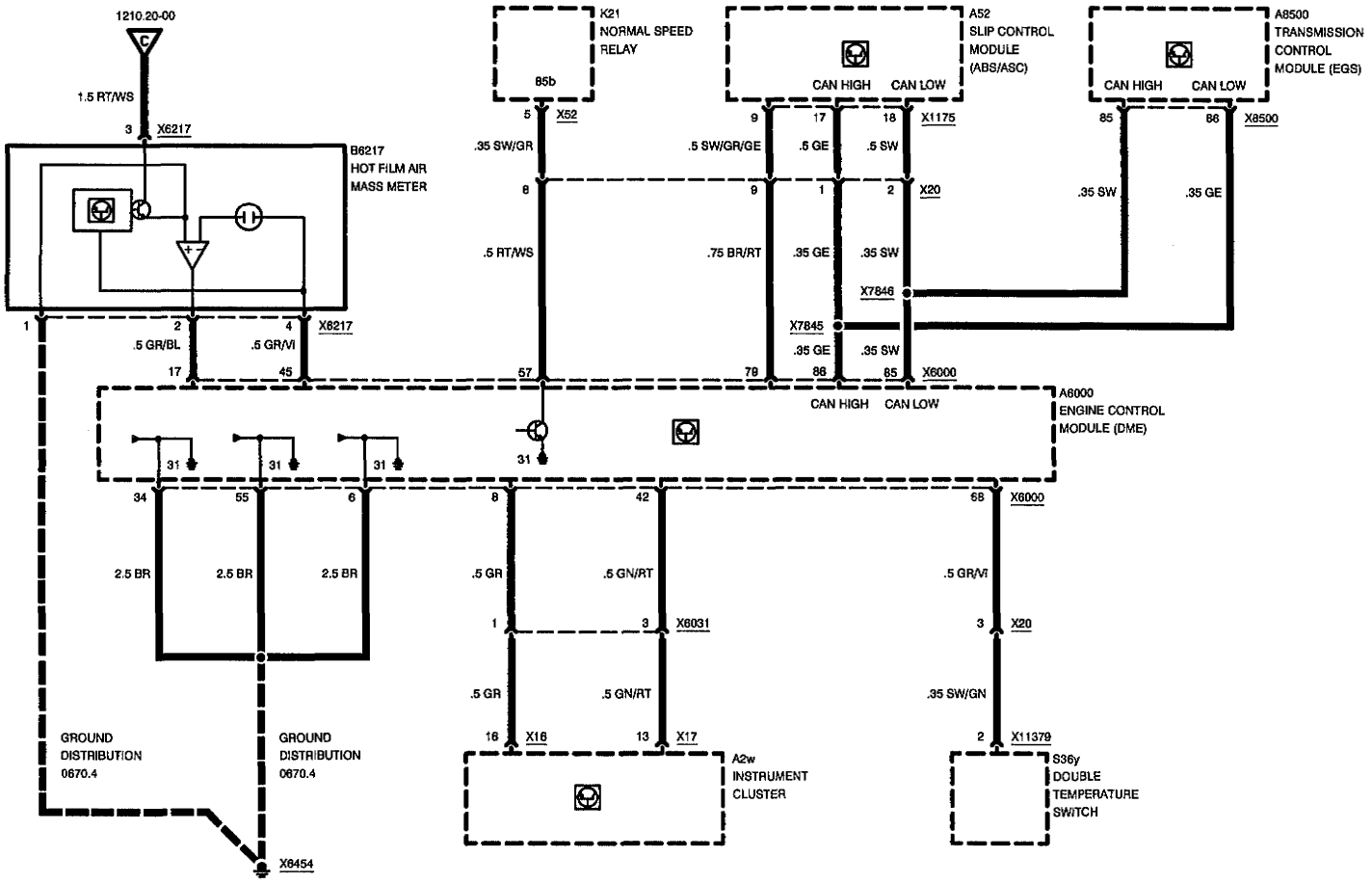
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ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



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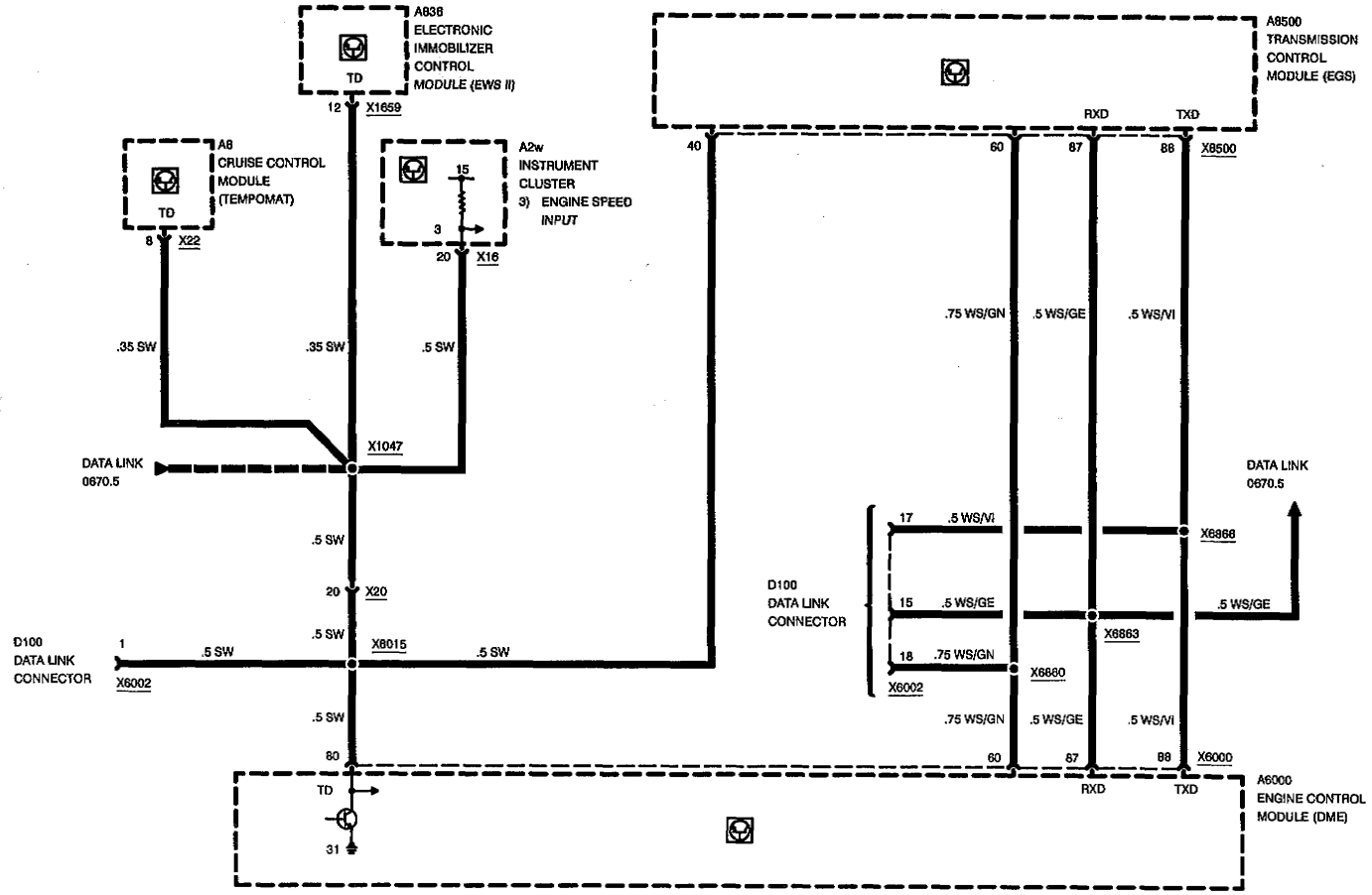
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



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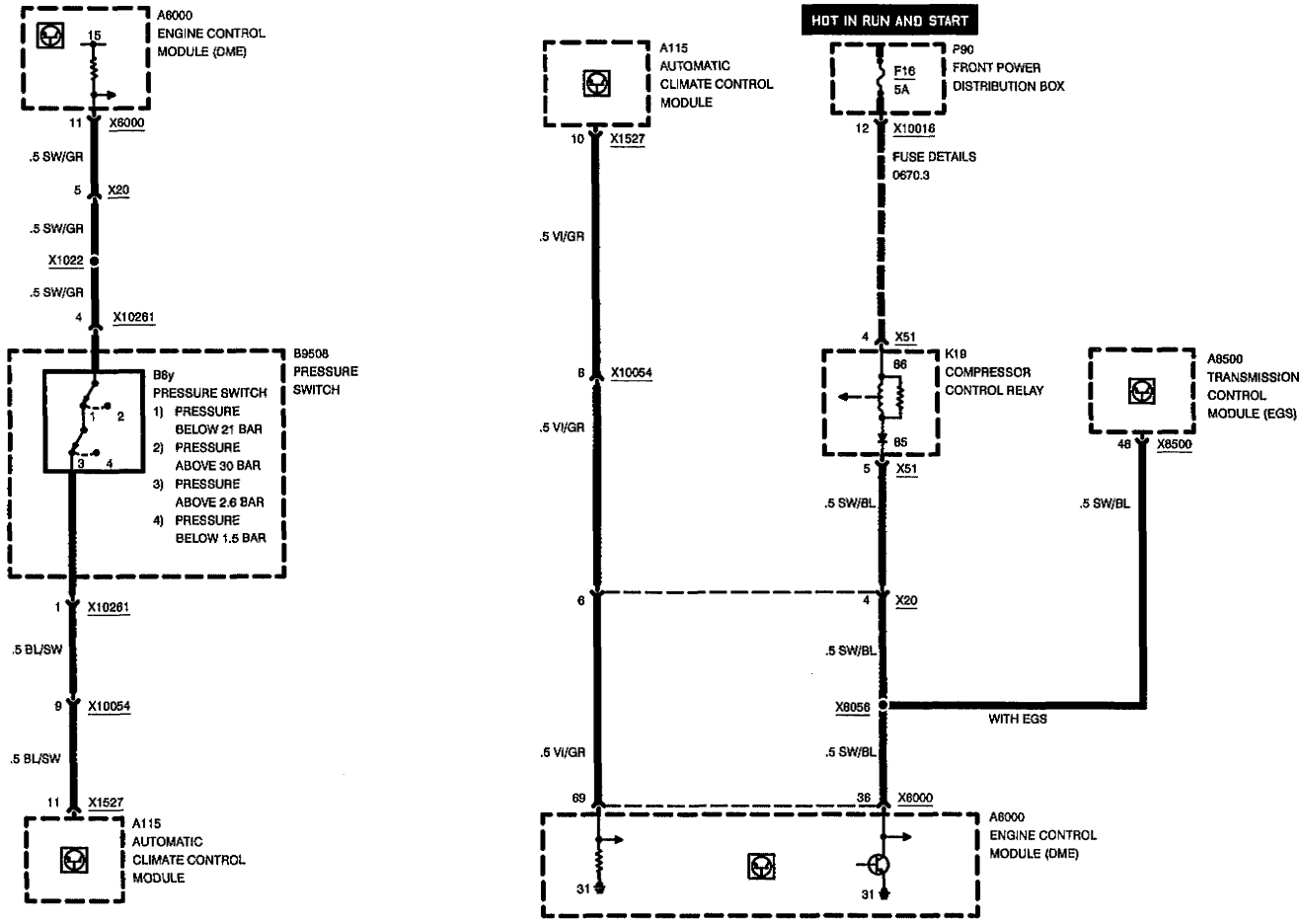
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

DATA LINK



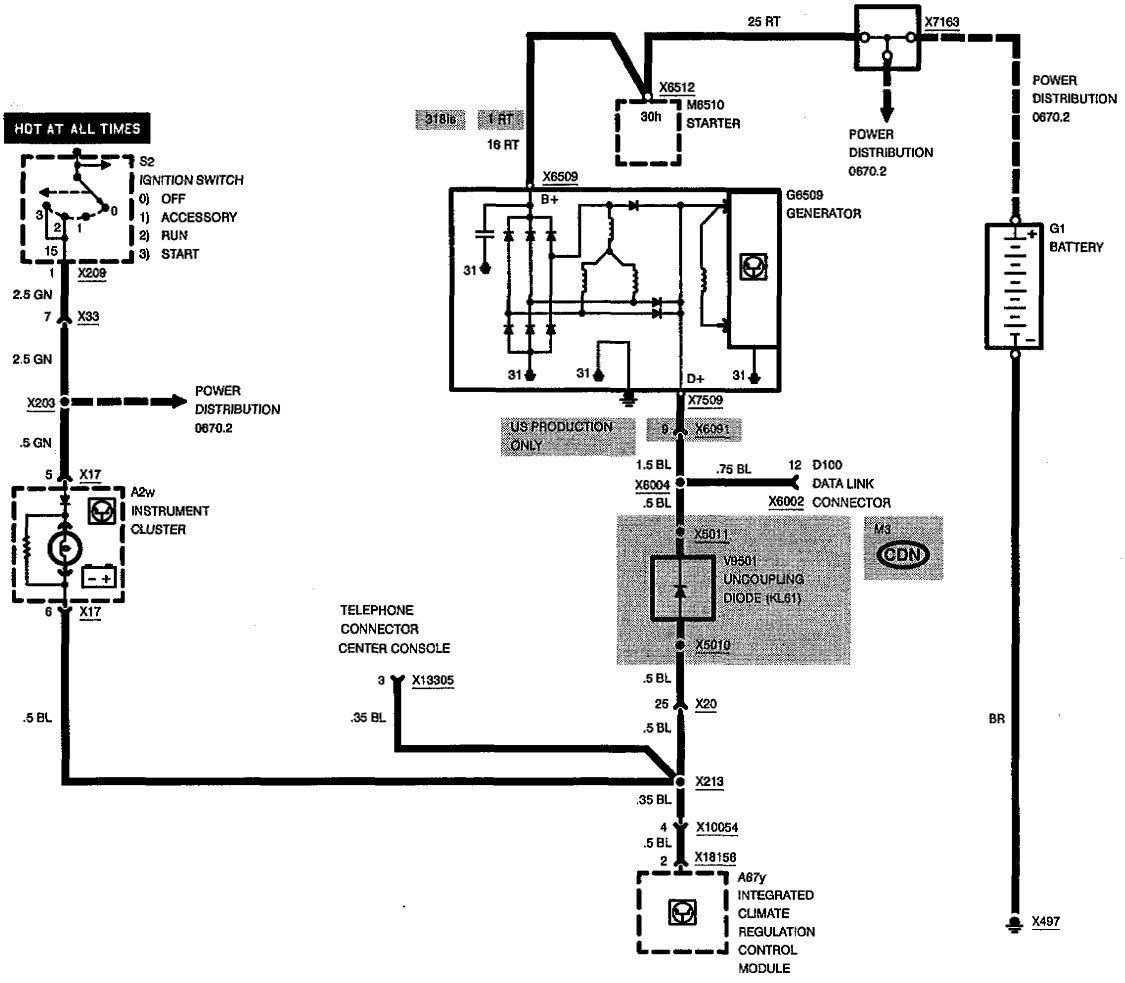
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ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



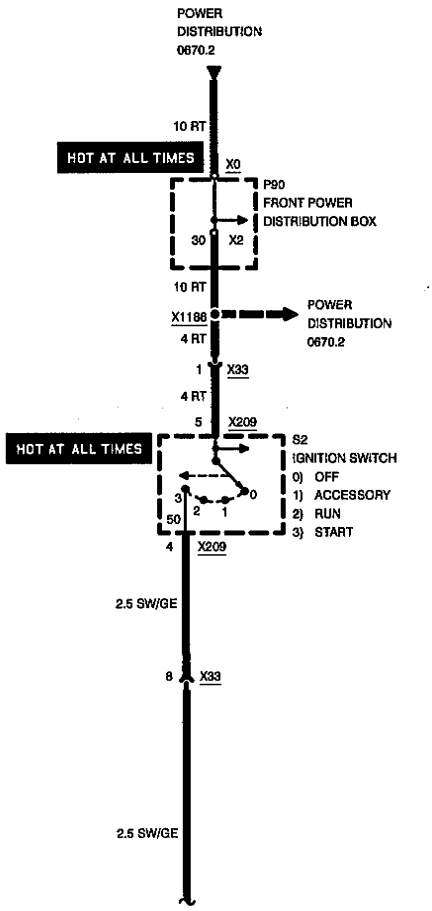
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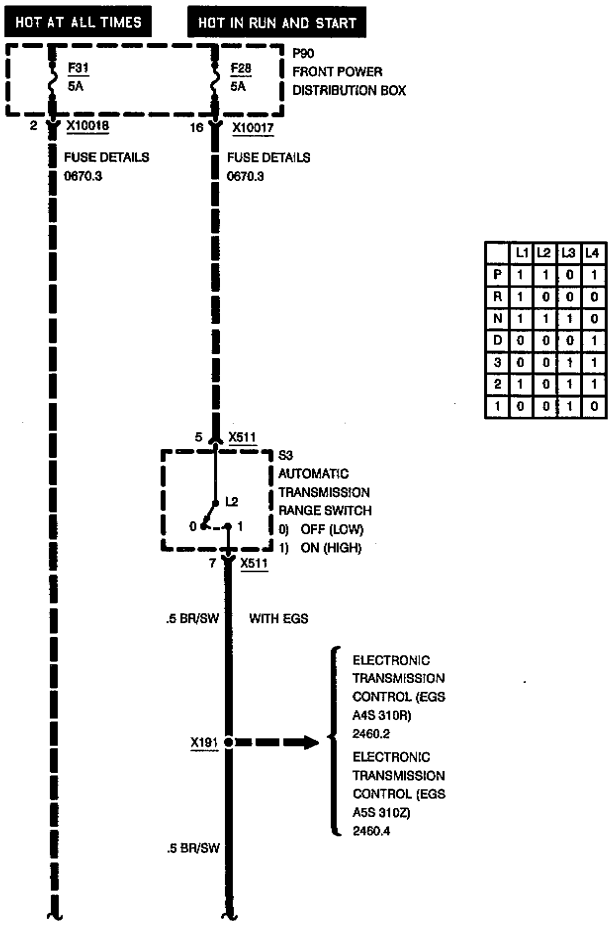
CHARGING SYSTEM



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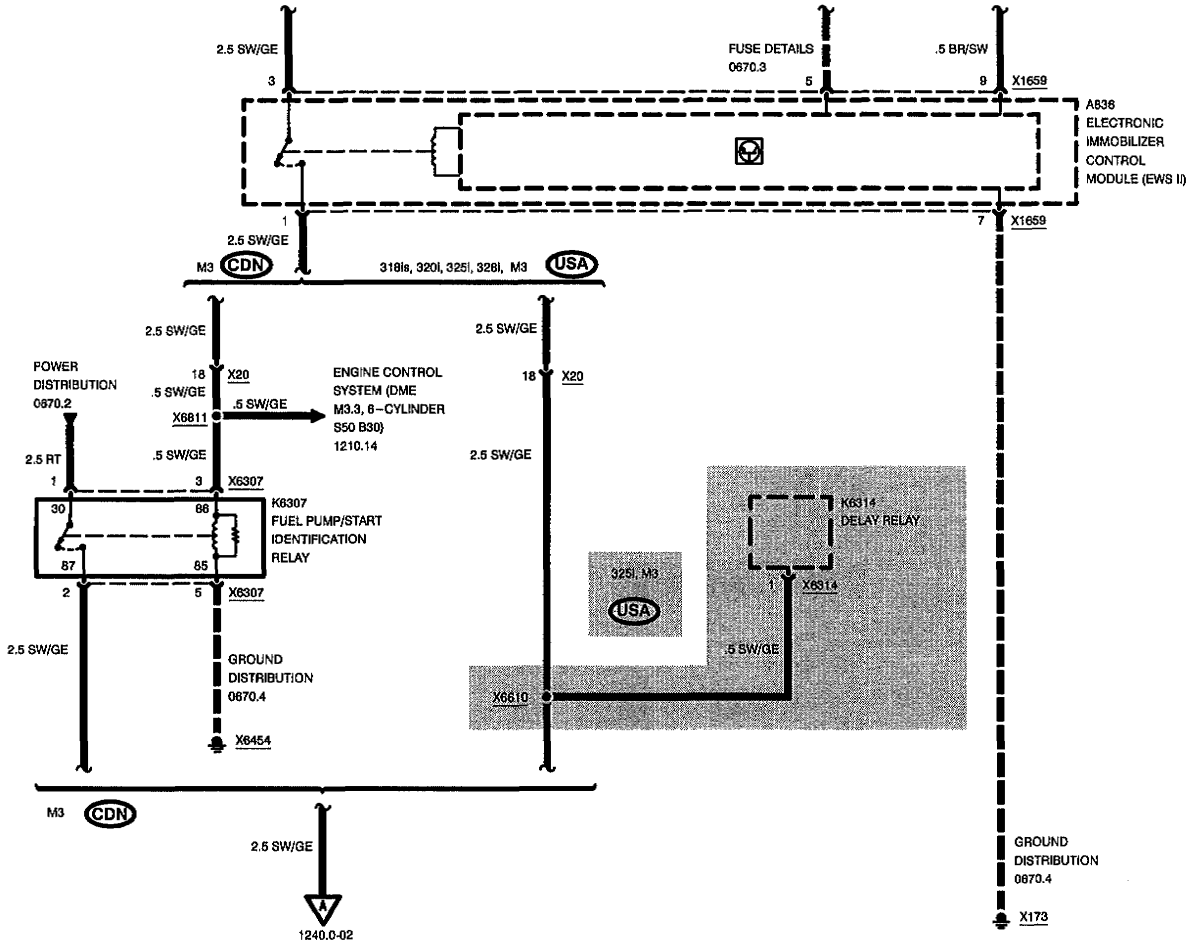
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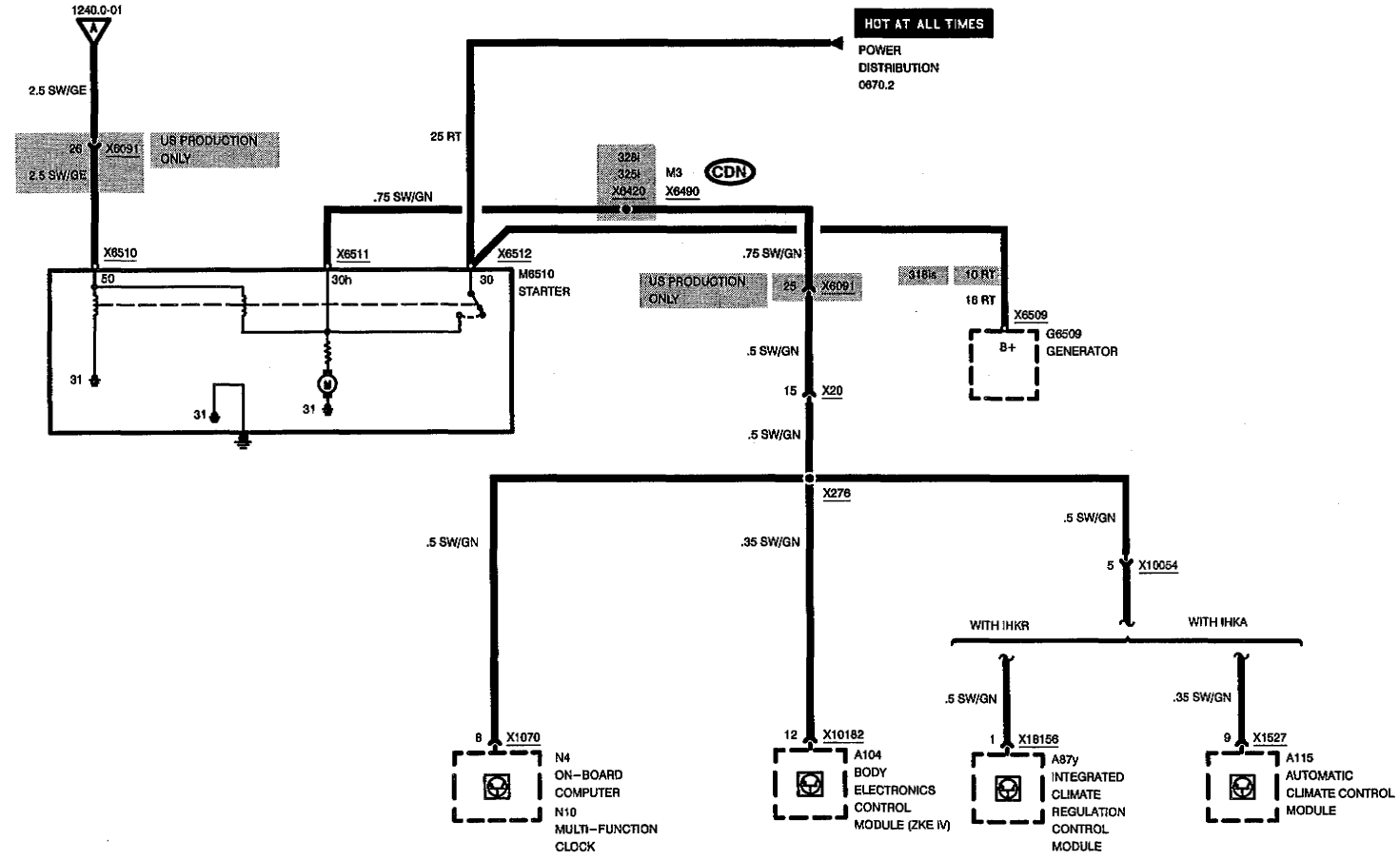


	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

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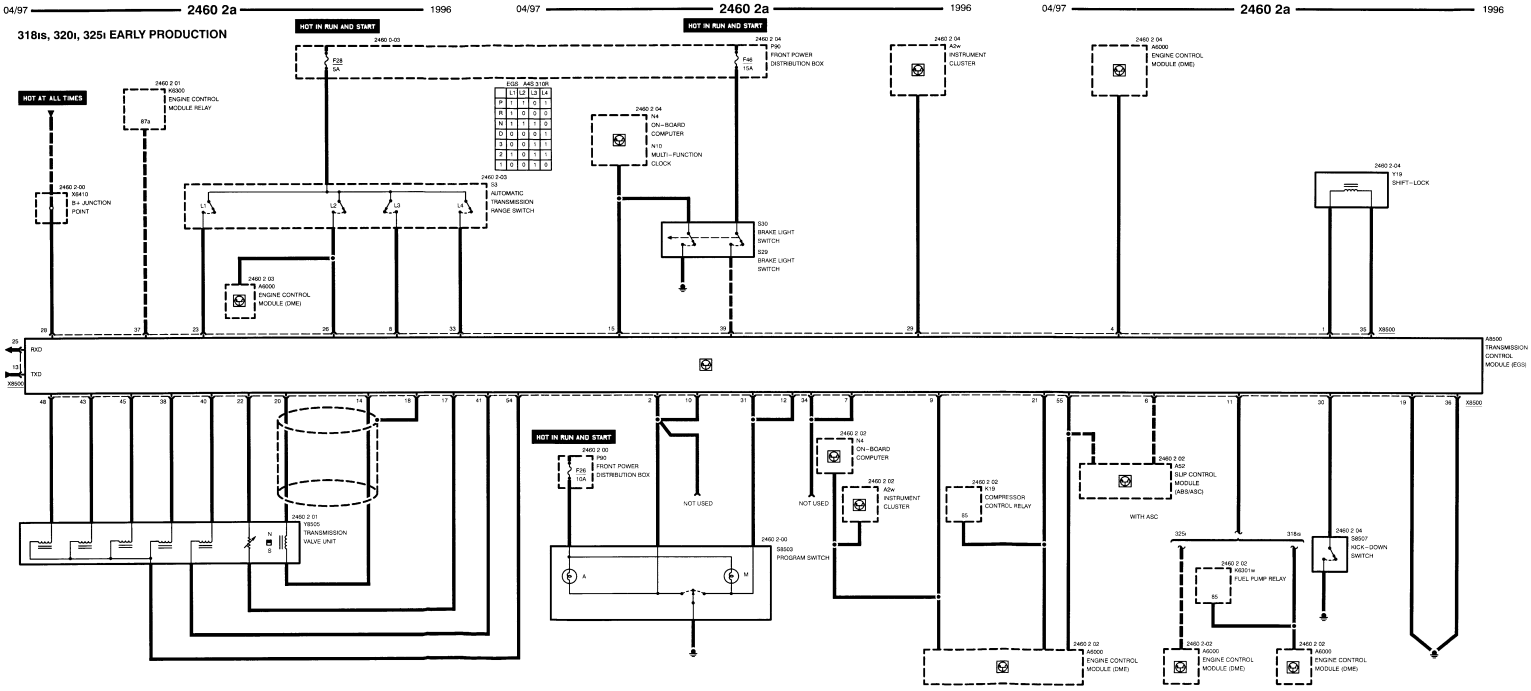


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318is, 320i, 325i EARLY PRODUCTION

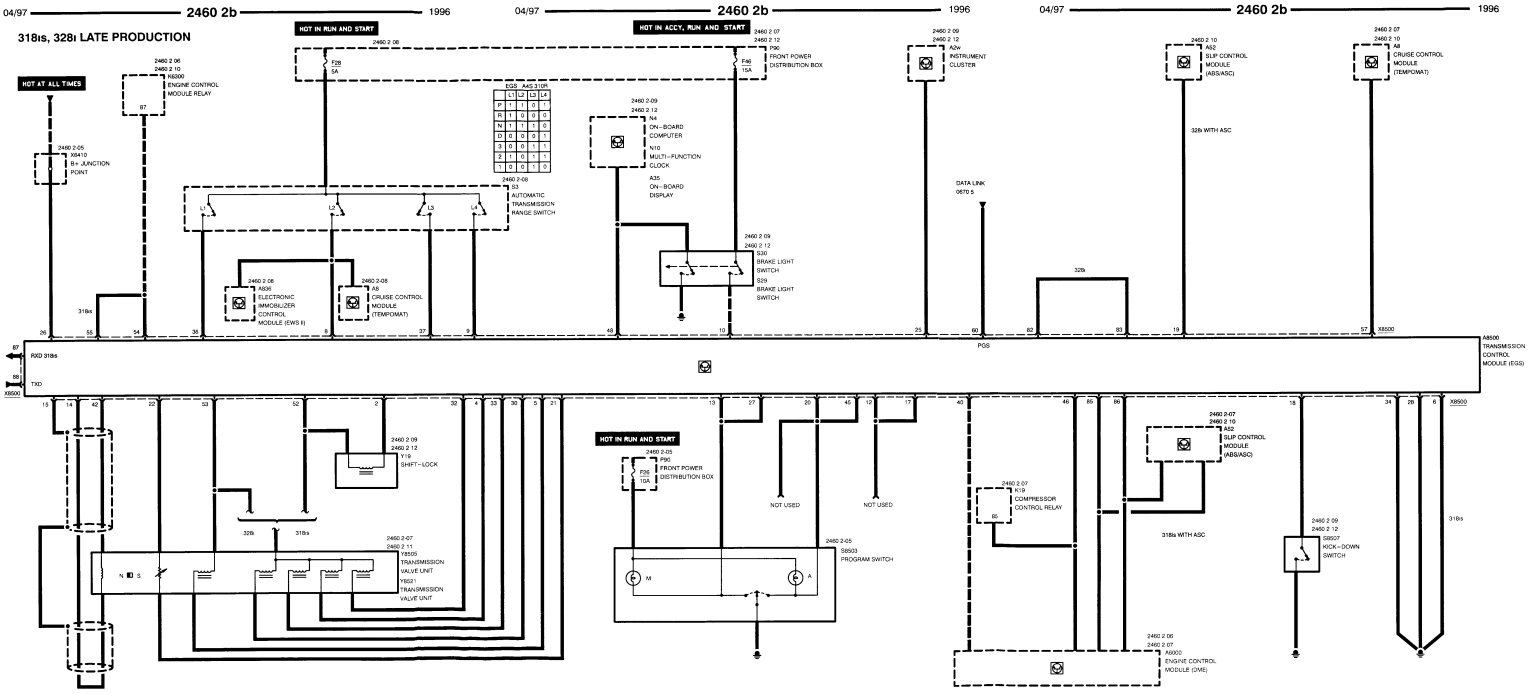


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318is, 328i LATE PRODUCTION



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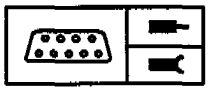
Pin Assignments (318is, 320i, 325i – Early Production)

X8500

Pin	Type	Description/Function	Connection
1	A	Shift lock solenoid control	Shift lock
2	E	Automatic mode signal	Program switch
3		Not used	
4	A	Ignition timing intervention	Engine control module (DME)
5		Not used	
6	E	ASC signal	ABS/ASC control module
7	A	S-program indication	Not used
8	E	Gear range signal L3	Automatic transmission range switch
9	E	Ti measurement signal (fuel consumption)	Engine control module (DME)
10	A	A-program indication	Program switch
11	E	Cyl. 1-6 fuel pump relay control	Engine control module (DME)
12	A	M-program indication	Program switch
13	E/A	TxD diagnostic data link	Data link connector
14	E	Output speed (–)	Transmission valve unit
15	E	Brake switch test signal	Brake light switch
16		Not used	
17	E	Oil temperature signal (analog ground)	Transmission valve unit
18	A	Shield for speed sensor	Transmission valve unit shield
19	M	Ground, power	Ground point
20	E	Output speed (+)	Transmission valve unit
21	E	A/C compressor-ON-signal	Engine control module (DME)
22	E	Oil temperature signal (+)	Transmission valve unit
23	E	Gear range signal L1	Automatic transmission range switch
24		Not used	
25	A	RxD diagnostic data link	Data link connector
26	E	Gear range signal L2	Automatic transmission range switch
27		Not used	
28	E	Battery voltage	B+ junction point
29	A	Fault indicator signal	Instrument cluster
30	E	Kick-down signal	Kick-down switch

E = Input, A = Output, M = Ground

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Pin Assignments (318is, 320i, 325i – Early Production)

Pin	Type	Description/Function	Connection
31	E	Manual mode signal	Program switch
32		Not used	
33	E	Gear range signal L4	Automatic transmission range switch
34	E	S-program button	Not used
35	A	Ground, shift lock solenoid	Shift lock
36	M	Ground, electronic	Ground point
37	E	Voltage supply	Engine control module relay, terminal 87a
38	A	Torque converter clutch solenoid valve control	Transmission valve unit
39	E	Brake pedal position	Brake light switch
40	A	Hydraulic pressure regulator control (+)	Transmission valve unit
41	A	Hydraulic pressure regulator control (–)	Transmission valve unit
42		Not used	
43	A	Solenoid valve 2 control (+)	Transmission valve unit
44		Not used	
45	A	Band solenoid control (+)	Transmission valve unit
46		Not used	
47		Not used	
48	A	Solenoid valve 1 control (+)	Transmission valve unit
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54	A	Solenoid valves ground control	Transmission valve unit
55	E	Throttle position signal	Engine control module (DME)

E = Input, A = Output, M = Ground

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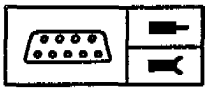
Pin Assignments (318is, 328i – Late Production)

X8500

Pin	Type	Description/Function	Connection
1		Not used	
2	A	Shift-lock solenoid control	Shift-lock
3		Not used	
4	A	Band solenoid	Transmission valve unit (318is)
4	A	Solenoid valve 3 control (–)	Transmission valve unit (328i)
5	A	Hydraulic pressure regulator control (–)	Transmission valve unit
6	M	Ground	Ground point (318is)
7		Not used	
8	E	Gear range signal L2	Automatic transmission range switch
9	E	Gear range signal L4	Automatic transmission range switch
10	E	Brake pedal position	Brake light switch
11		Not used	
12	E	Sport mode signal	Not used
13	E	Manual mode signal	Program switch
14	E	Output speed (–)	Transmission valve unit
15	M	Ground for shield	Shield for speed sensor
16		Not used	
17	A	S-program indication	Not used
18	E	Kick-down signal	Kick-down switch
19	E	ASC signal	ASC module (328i)
20	E	Automatic mode signal	Program switch
21	E	Oil temperature signal (–)	Transmission valve unit
22	E	Oil temperature signal (+)	Transmission valve unit
23		Not used	
24		Not used	
25	A	Fault indicator signal	Instrument cluster
26	E	Battery voltage	B+ Jump start junction point
27	A	M-program indication	Program switch
28	M	Ground	Ground point
29		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments (318is, 328i – Late Production)

Pin	Type	Description/Function	Connection
30	A	Solenoid valve 1 control (–)	Transmission valve unit
31		Not used	
32	A	Torque converter clutch solenoid valve control (–)	Transmission valve unit
33	A	Solenoid valve 2 control (–)	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	E	RPM speed signal TD	Engine control module (318is)
41		Not used	
42	E	Output speed (+)	Transmission valve unit
43		Not used	
44		Not used	
45	A	A-program indication	Program switch
46	E	A/C compressor-ON-signal	Engine control module (318is)
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/Transmission valve unit (318is)
52	A	Voltage supply	Shift-lock (328i)
53	E	Voltage pressure regulator	Transmission valve unit
54	E	Voltage supply terminal 87	Engine control module relay
55	E	Voltage supply terminal 87	Engine control module relay (318is)
56		Not used	
57	E	Cruise control signal	Cruise control module
58		Not used	
59		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments (318is, 328i -- Late Production)

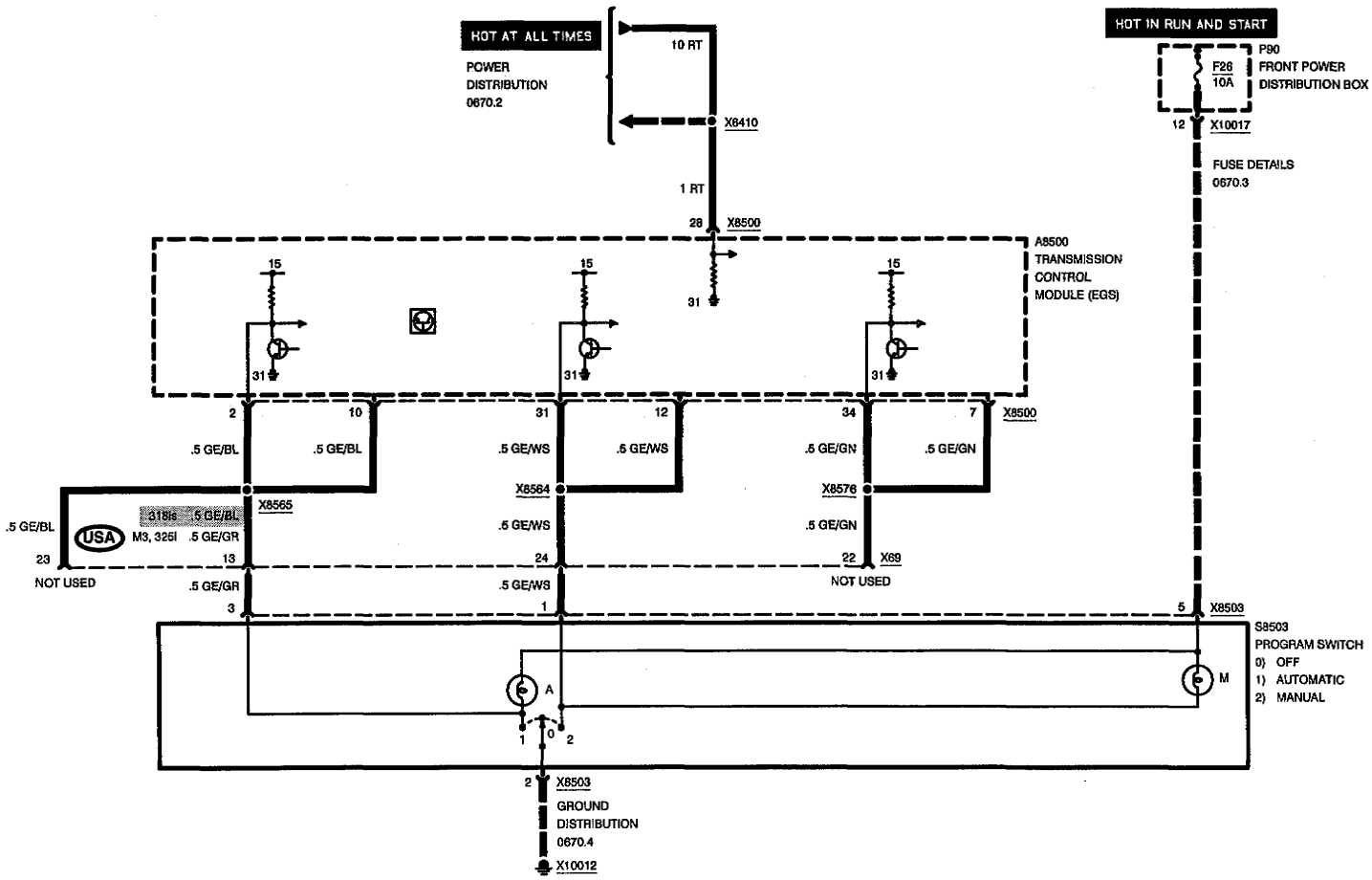
Pin	Type	Description/Function	Connection
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82	E/A	Jumper plug	(328i)
83	E/A	Jumper plug	(328i)
84		Not used	
85	E/A	CAN-LOW	Engine control module
86	E/A	CAN-HIGH	Engine control module
87	A	RxD diagnostic data link	Data link connector (318is)
88	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 325i, M3 EARLY PRODUCTION

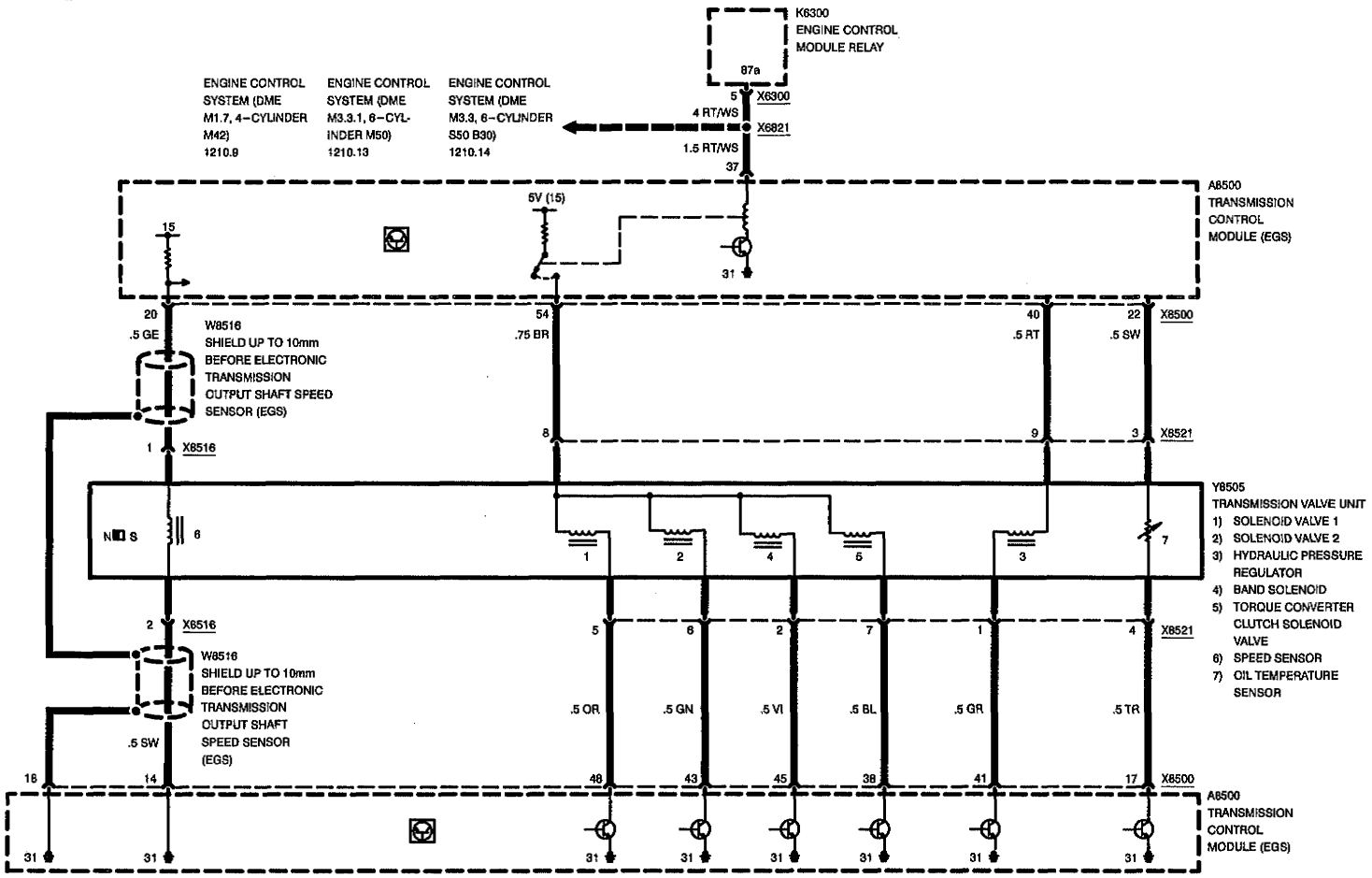
POWER, PROGRAM SWITCH



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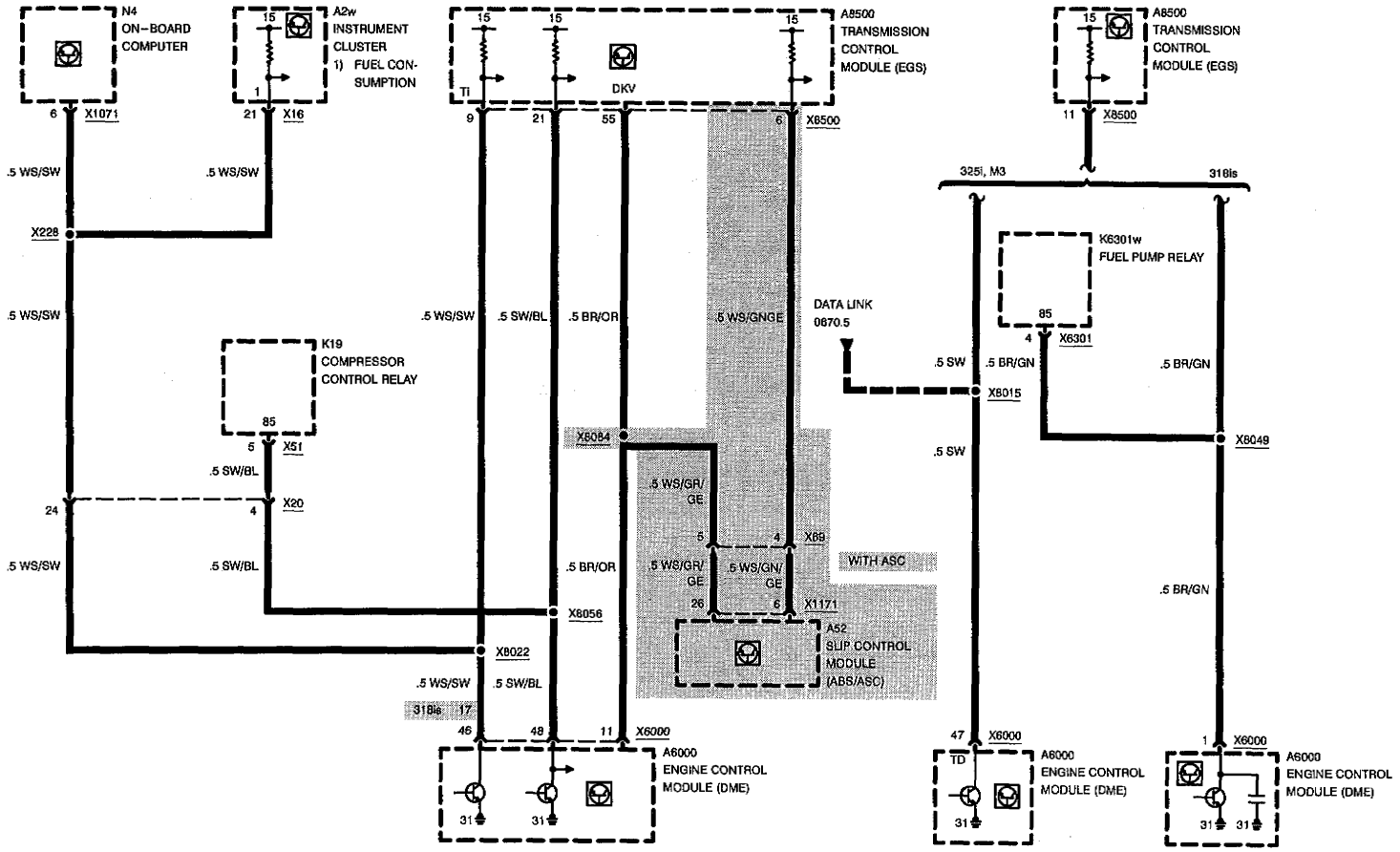
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 325i, M3 EARLY PRODUCTION

POWER



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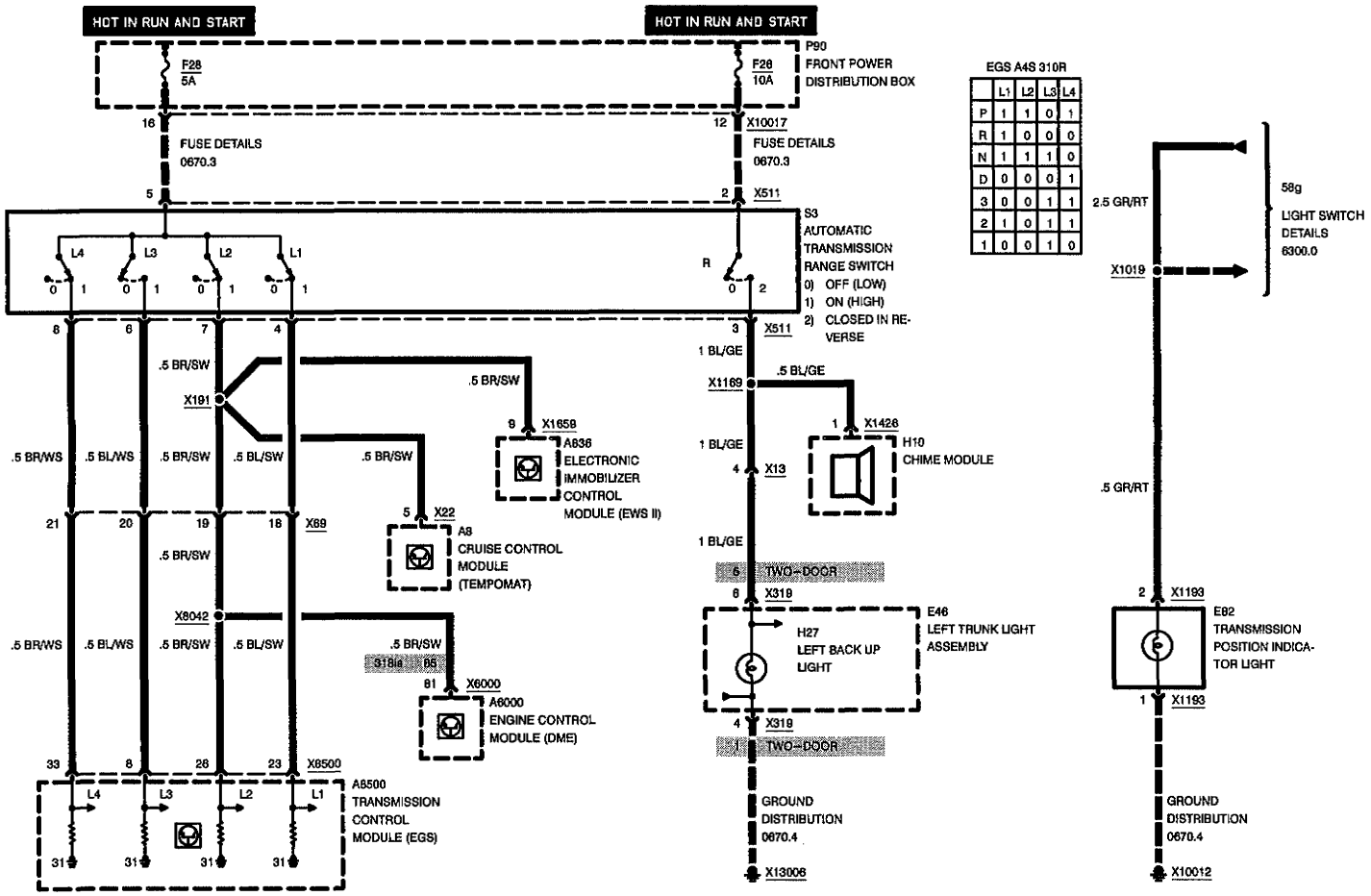
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 325i, M3 EARLY PRODUCTION



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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 325i, M3 EARLY PRODUCTION

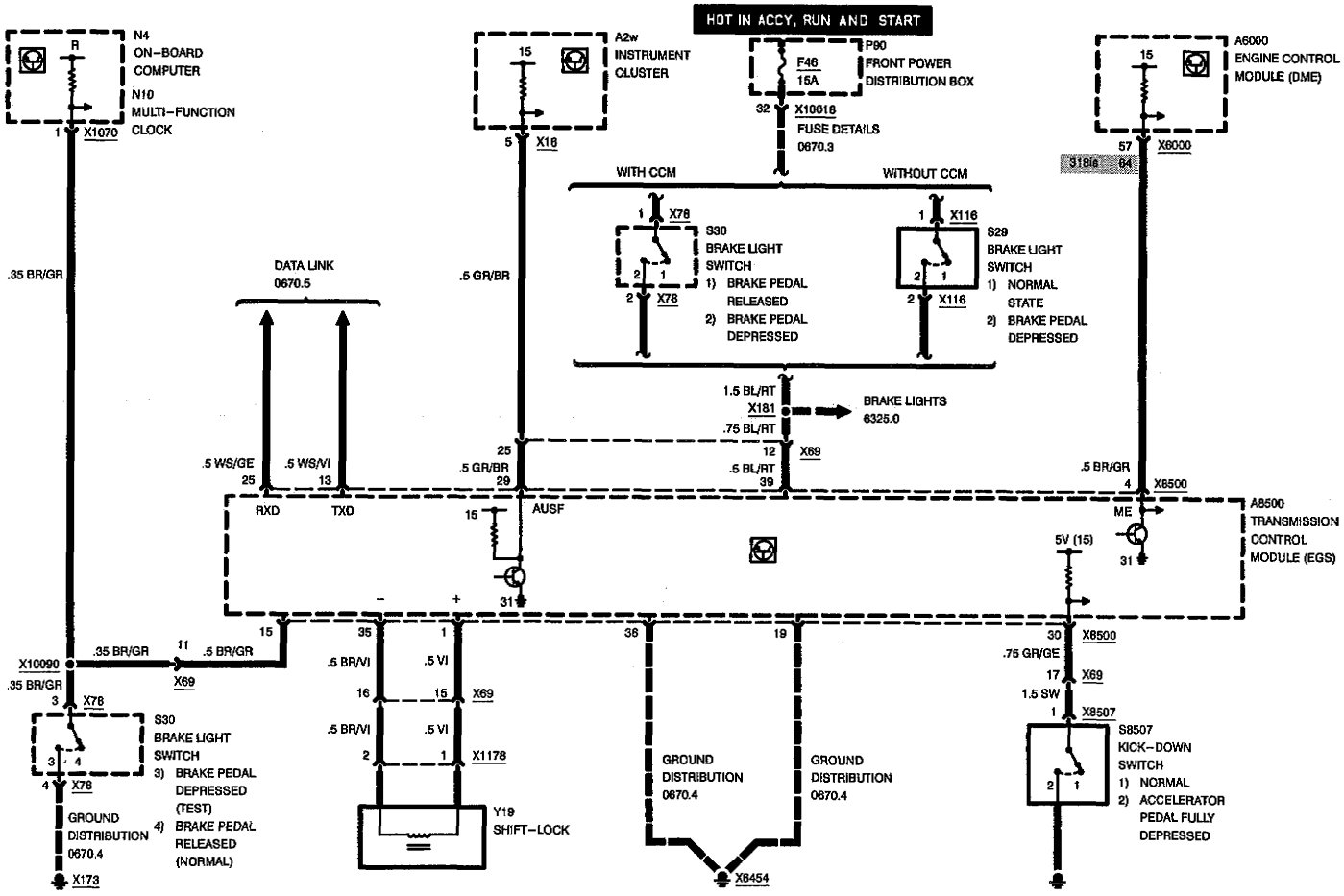
GEAR SELECTOR SWITCH



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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 325i EARLY PRODUCTION

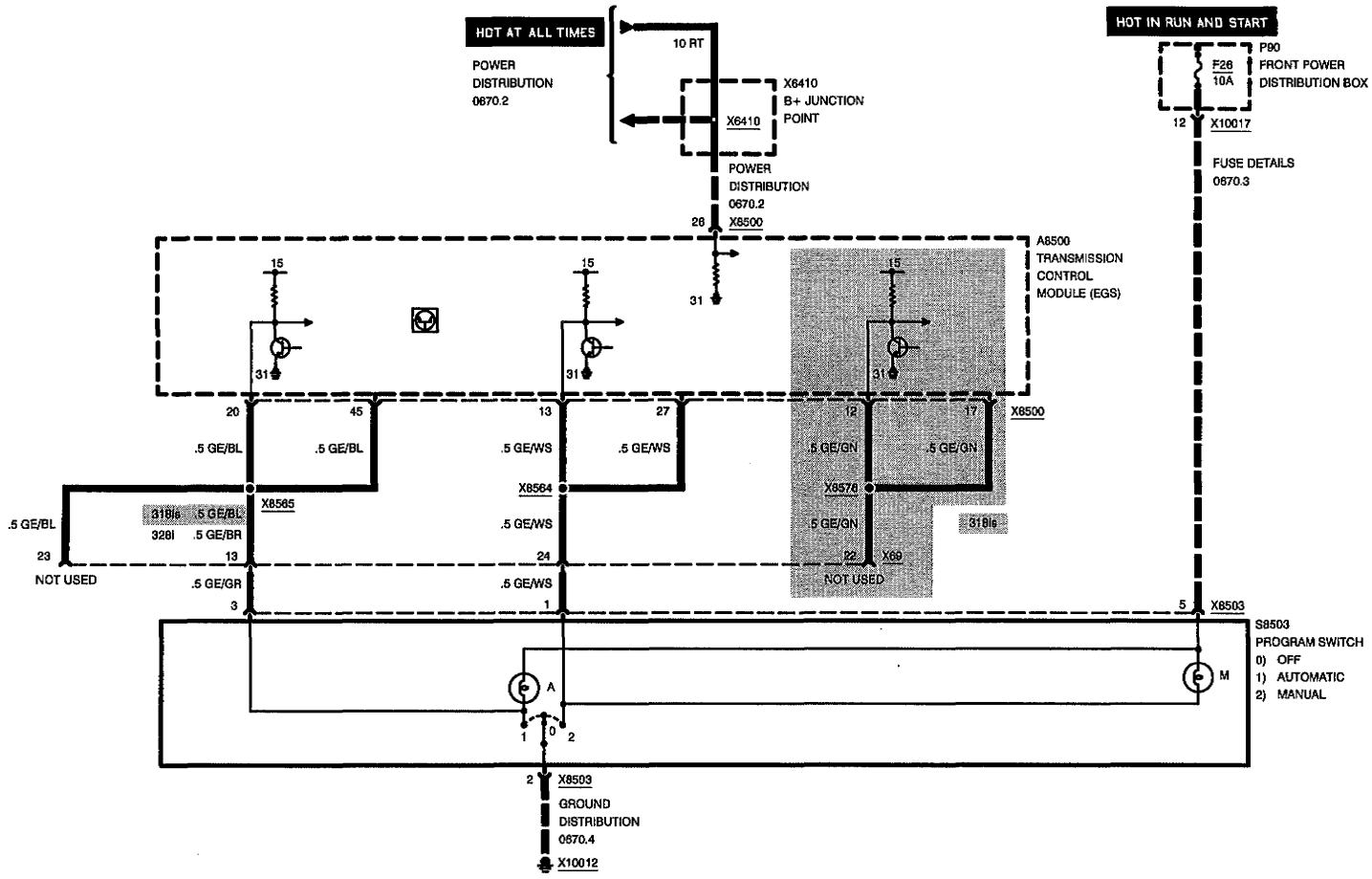
SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH



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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 328i, 318is LATE PRODUCTION

POWER, PROGRAM SWITCH

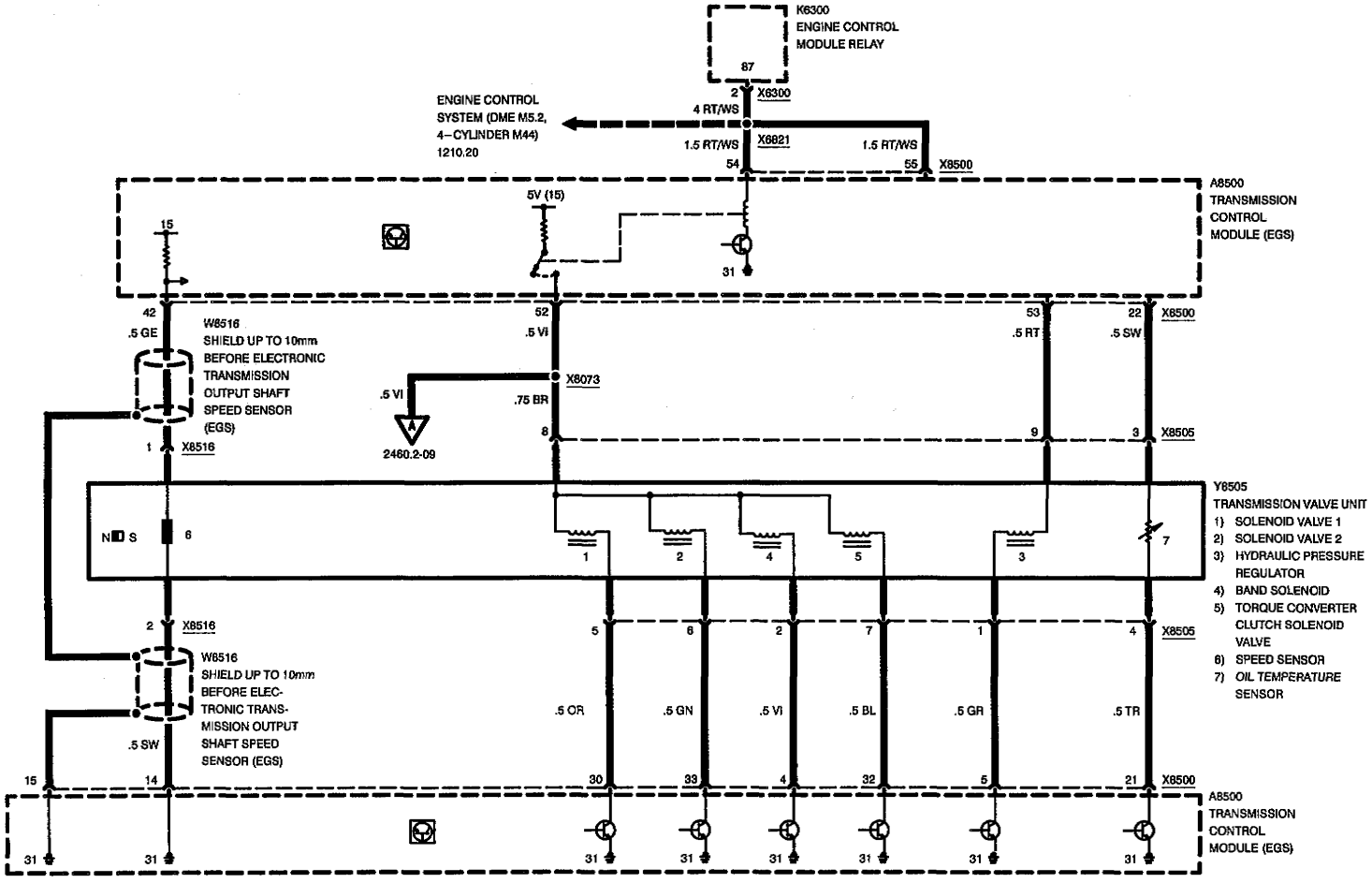


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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

318is LATE PRODUCTION

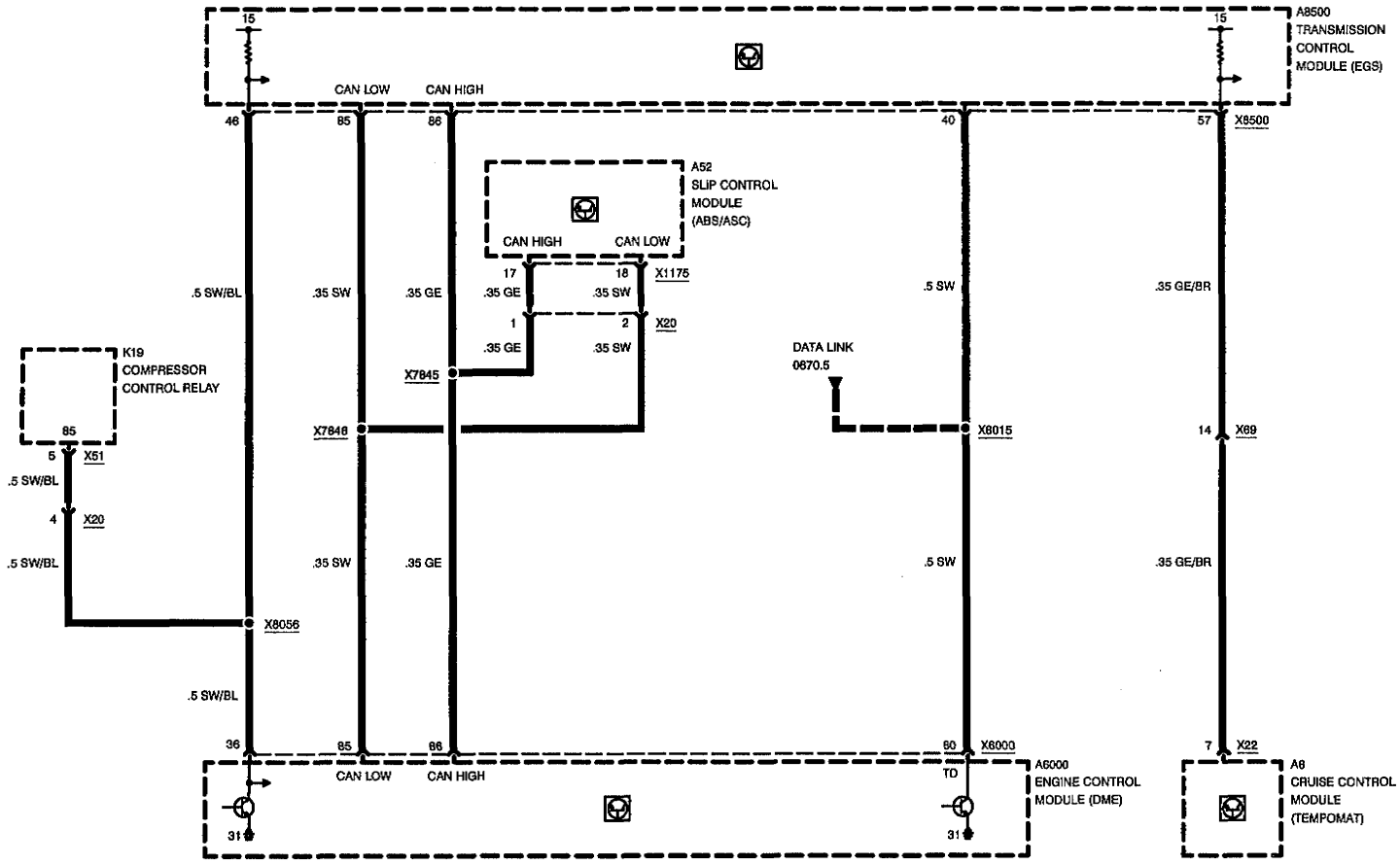
POWER



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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

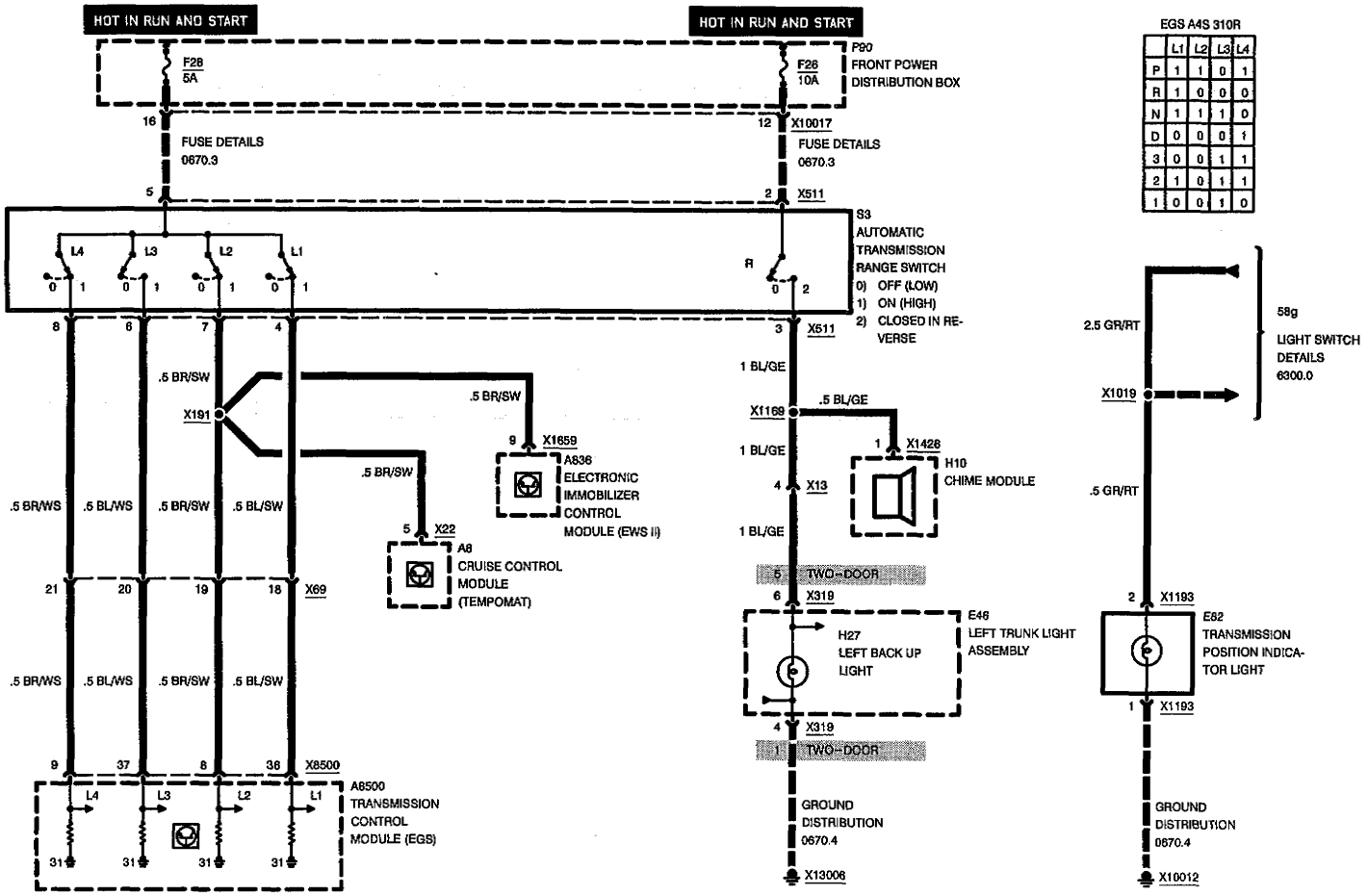
318is LATE PRODUCTION



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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 328i LATE PRODUCTION

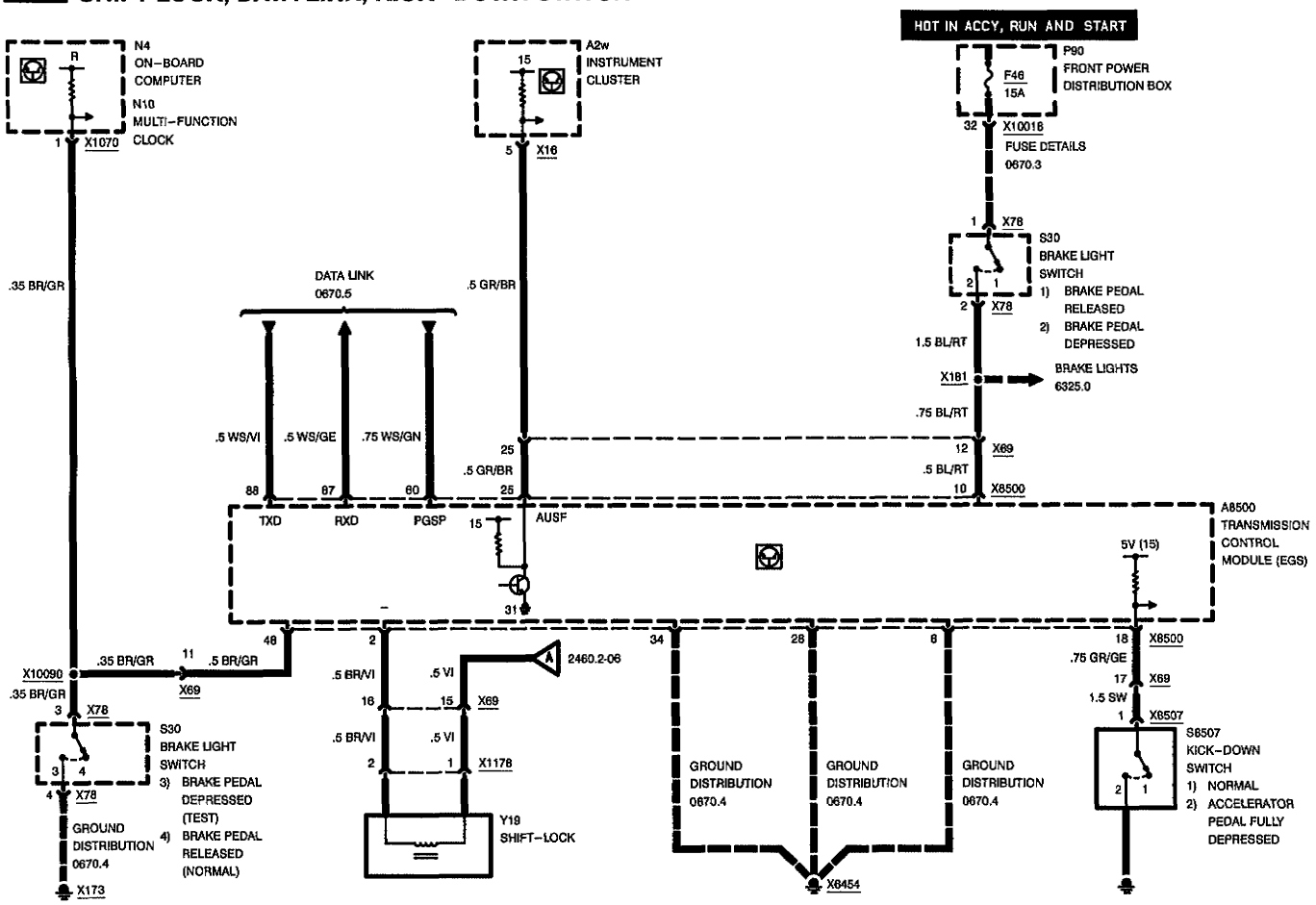
GEAR SELECTOR SWITCH



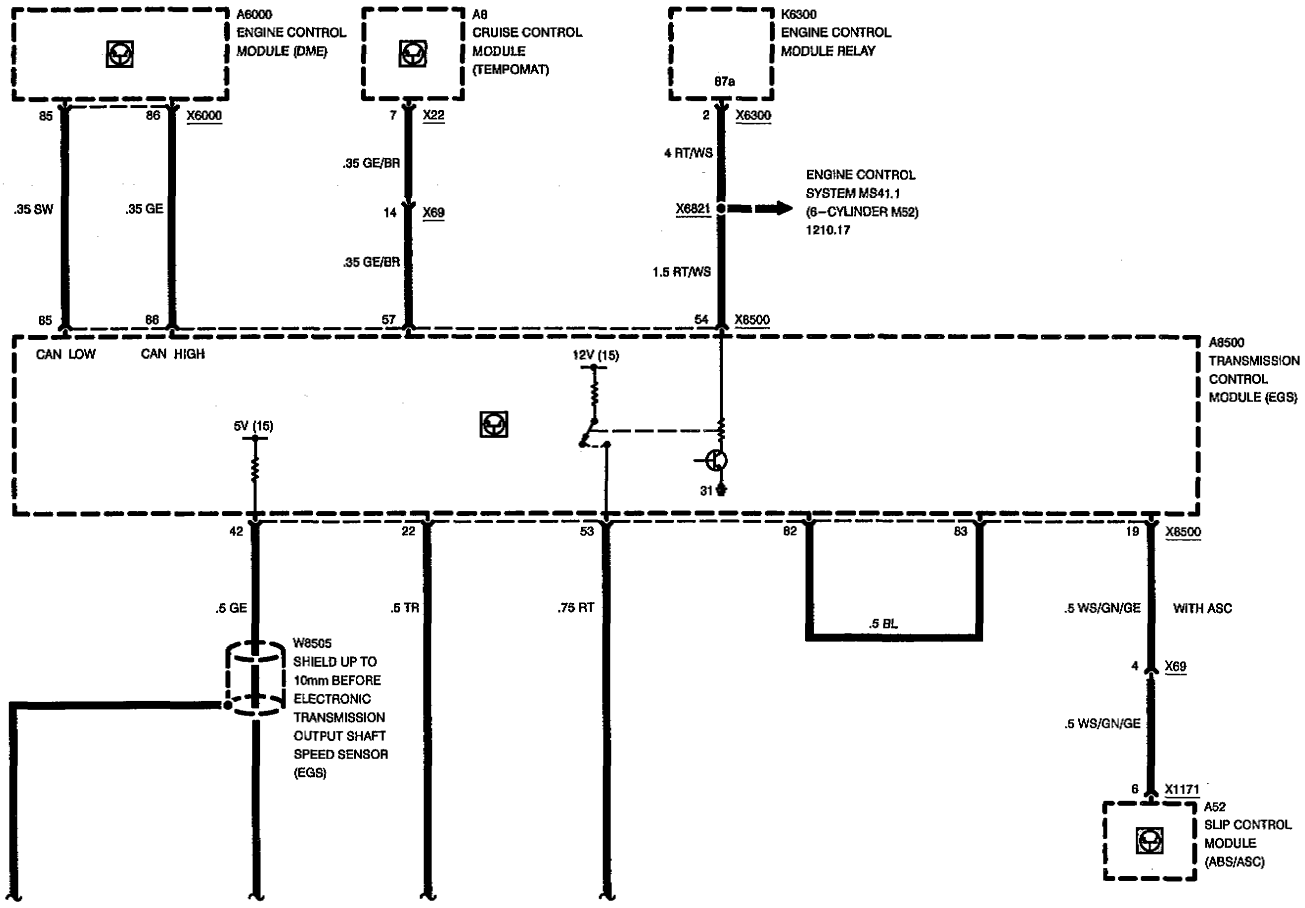
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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is LATE PRODUCTION

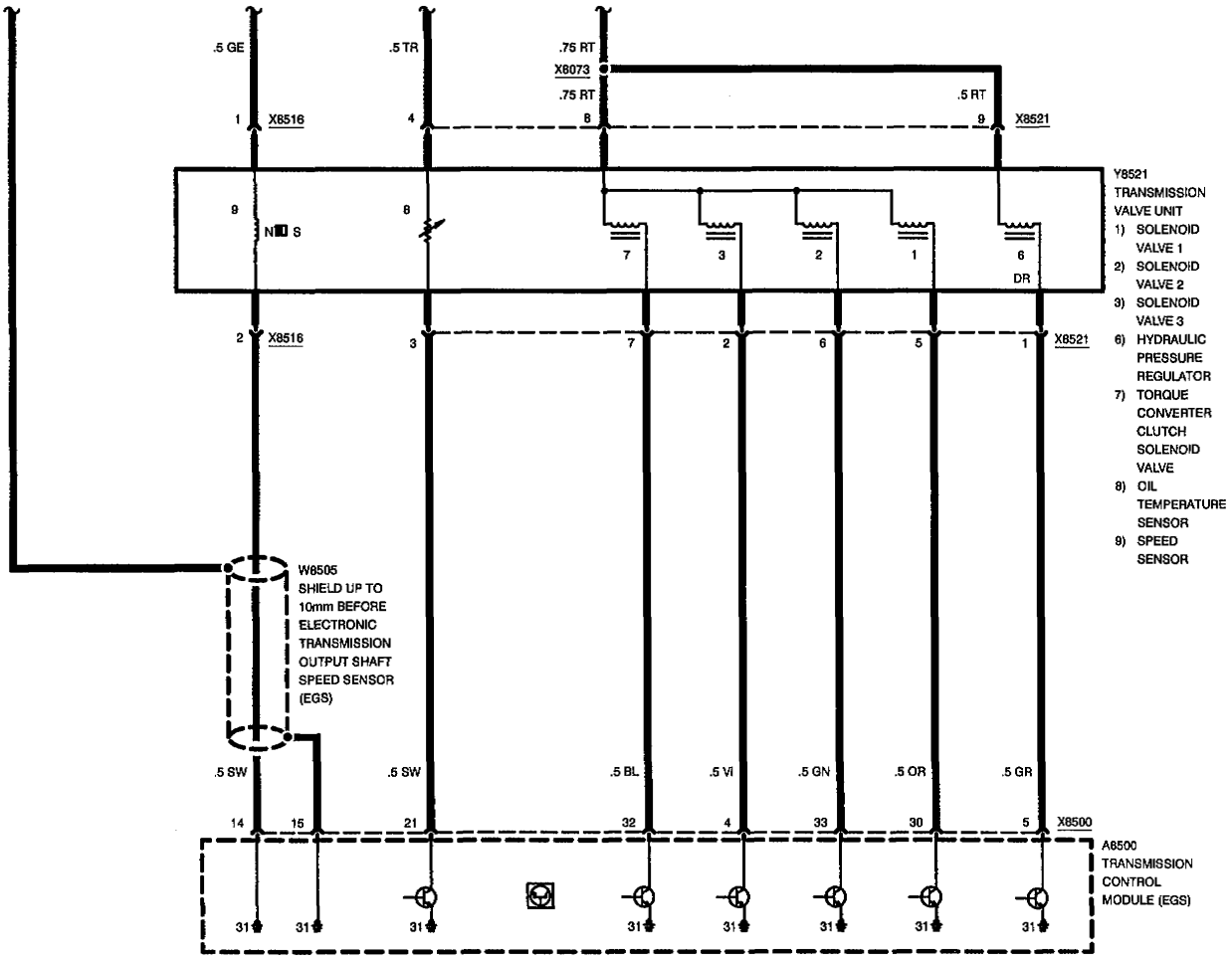
SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH



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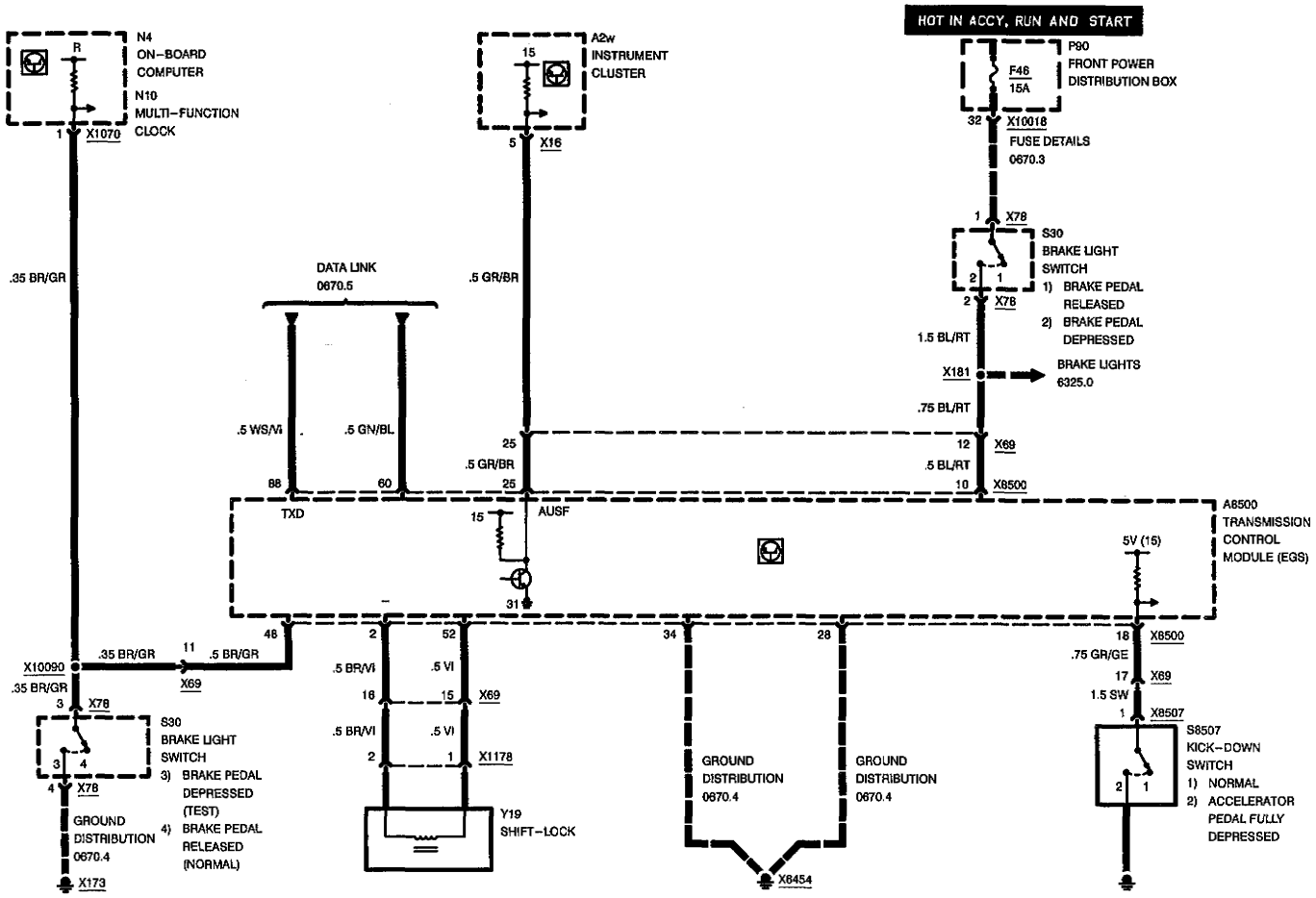


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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

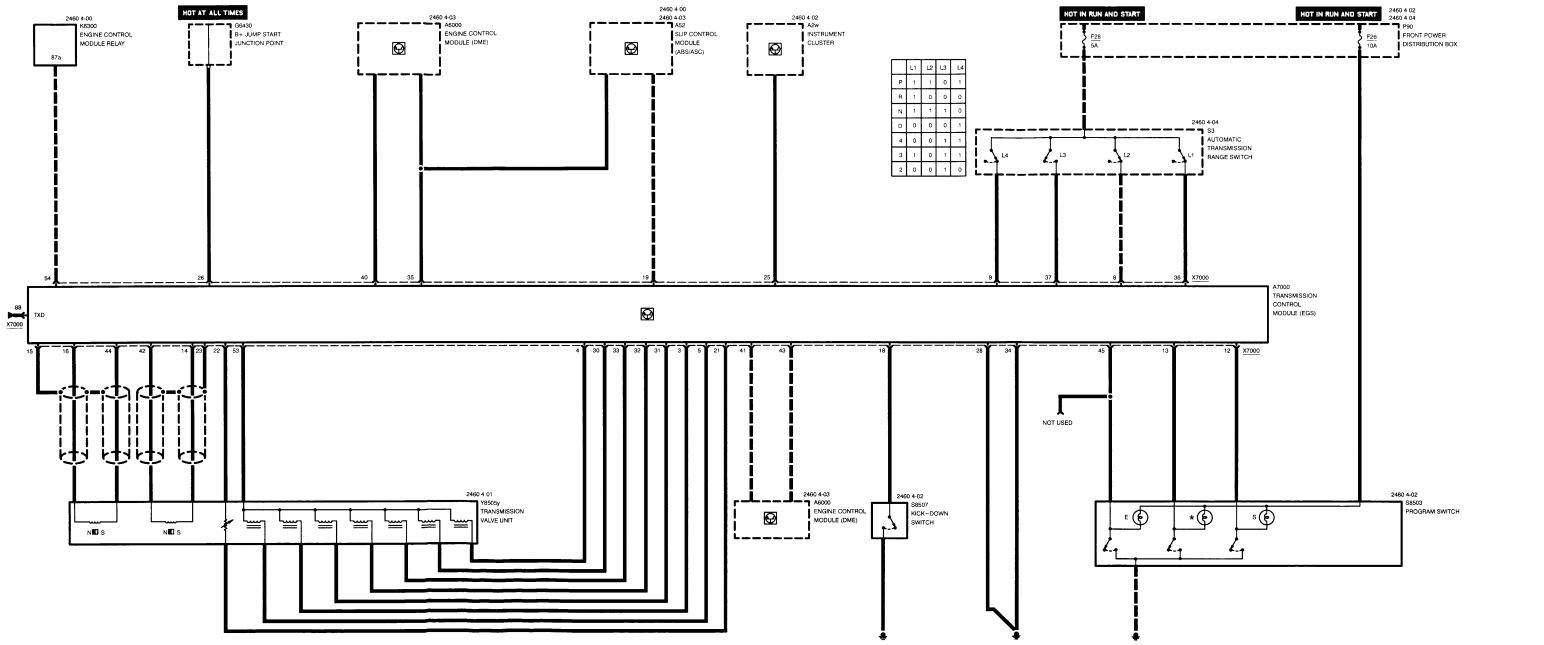
328i LATE PRODUCTION

SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH

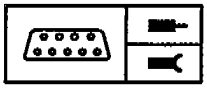


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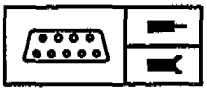
Pin Assignments

X7000

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
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		Not used	
11		Not used	
12	E	S-program indication	Program switch
13	E	*-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		Not used	
18	E	Kick-down signal	Kick-down switch
19	E	ABS signal	ABS/ASC control module
20		Not used	
21	M	Ground oil temperature sensor	Transmission valve unit
22	E	Oil temperature sensor	Transmission valve unit
23		Not used	
24		Not used	
25	A	Fault indicator signal	Instrument cluster
26	E	Battery voltage	Jump start junction point
27		Not used	
28	M	Ground, electronics	Ground
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
35	E	DKT interface	Engine control module (DME)
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	A	Ignition timing intervention	Engine control module (DME)
41	E	Ti-measurement signal (fuel consumption)	Engine control module (DME)
42	A	Speed sensor n - ab (+)	Transmission valve unit
43	E	Crankshaft RPM speed signal TD	Engine control module (DME)
44	E	Speed sensor n-turbine	Transmission valve unit
45	E	E-program indication	Program switch
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53	A	Voltage supply for solenoid valves	Transmission valve unit
54	E	Voltage supply	DME relay
55		Not used	
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	
61		Not used	
62		Not used	

E = Input, A = Output, M = Ground

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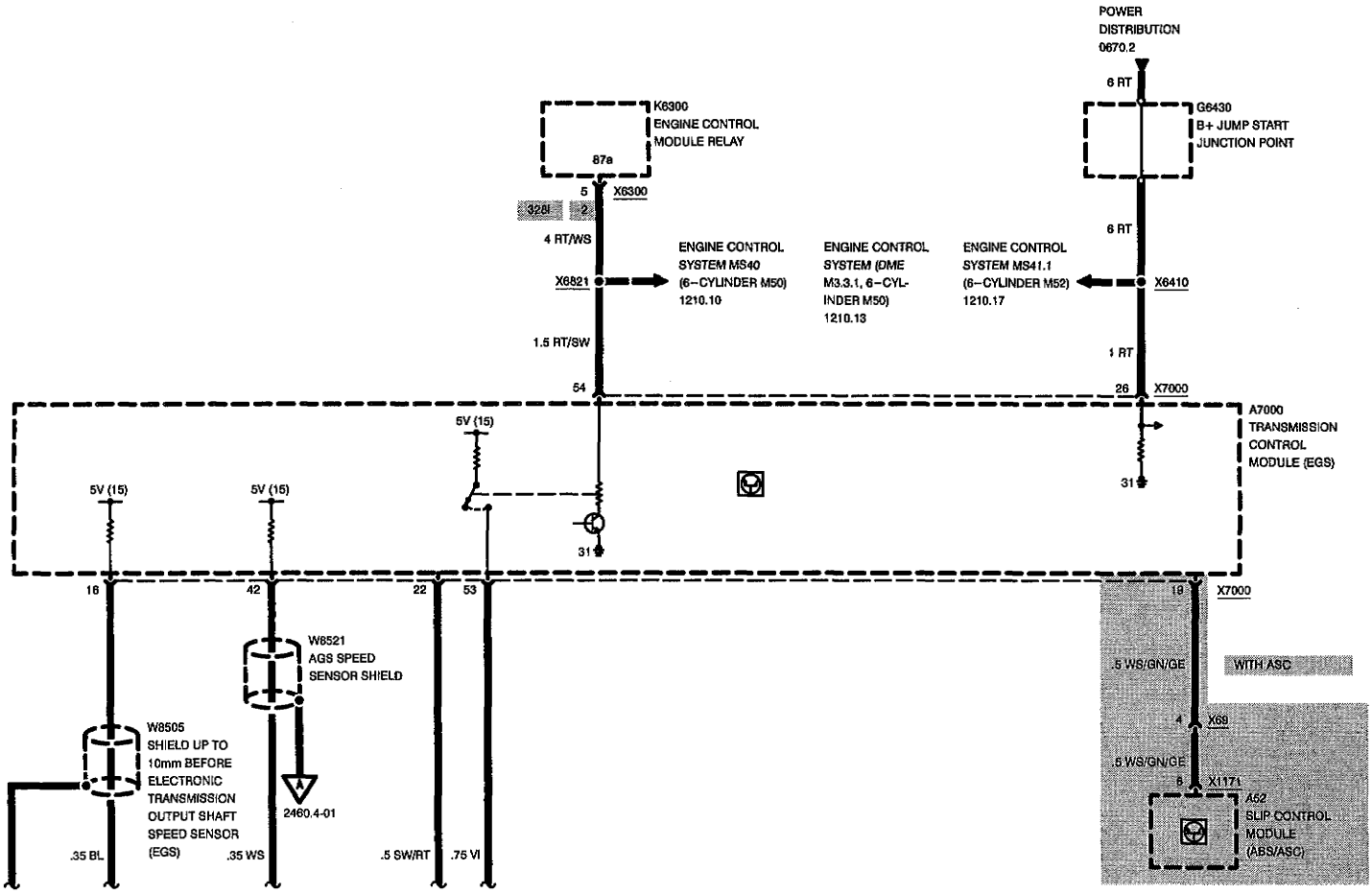
Pin Assignments

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		Not used	
83		Not used	
84		Not used	
85		Not used	
86		Not used	
87	A	RxD diagnostic data link	Data link connector
88	E/A	TxD diagnostic data link	Data link connector

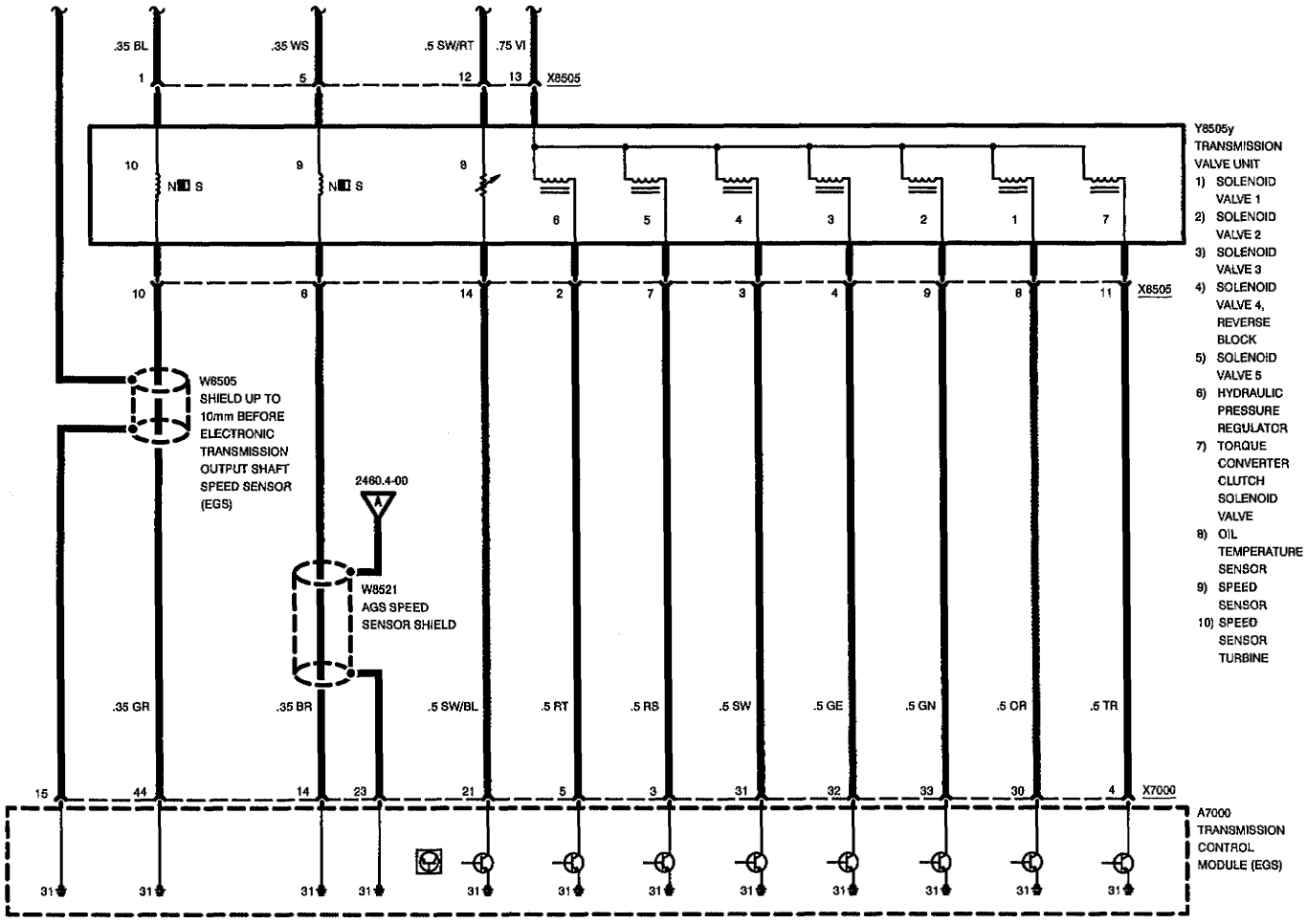
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ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

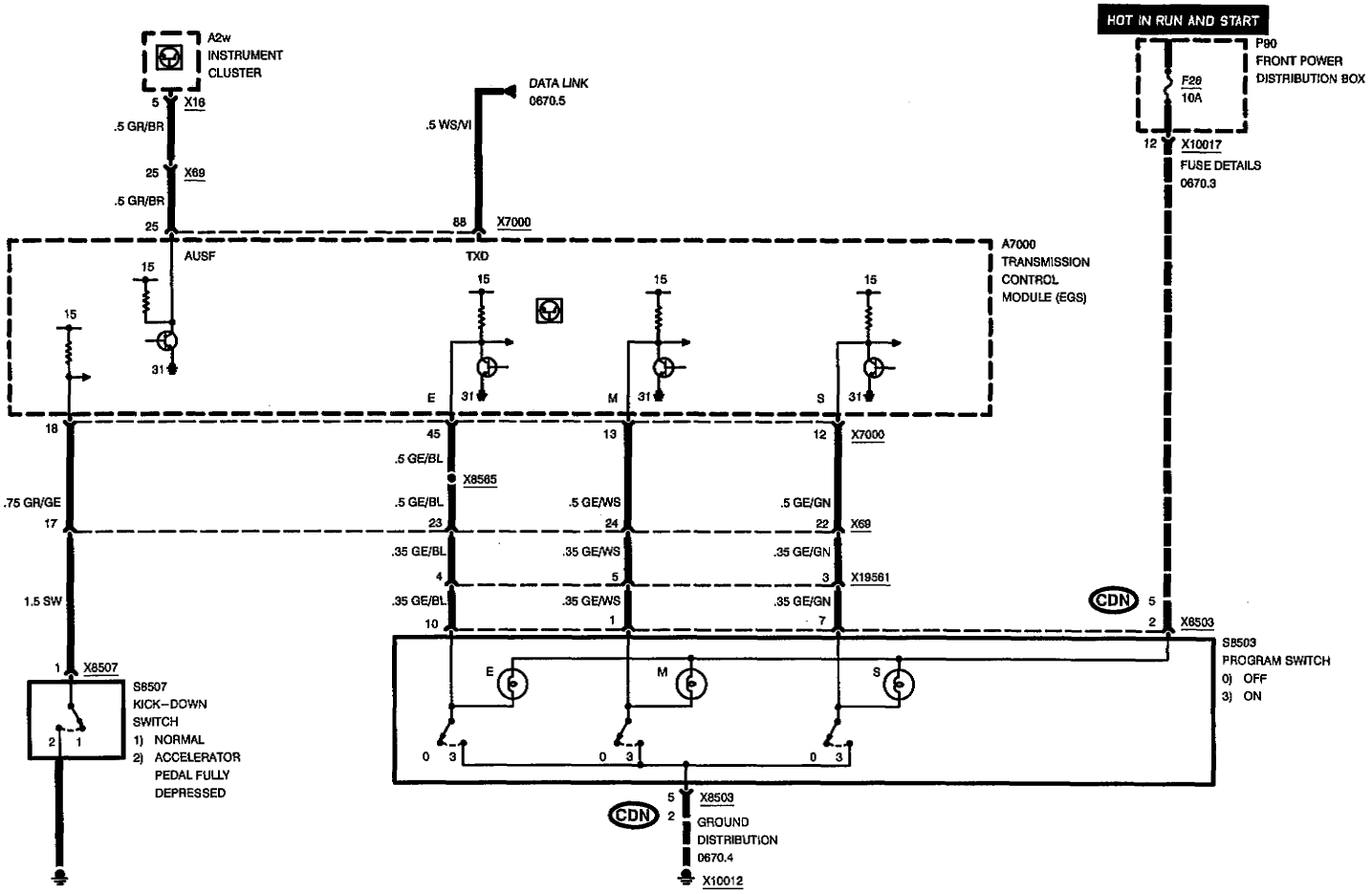


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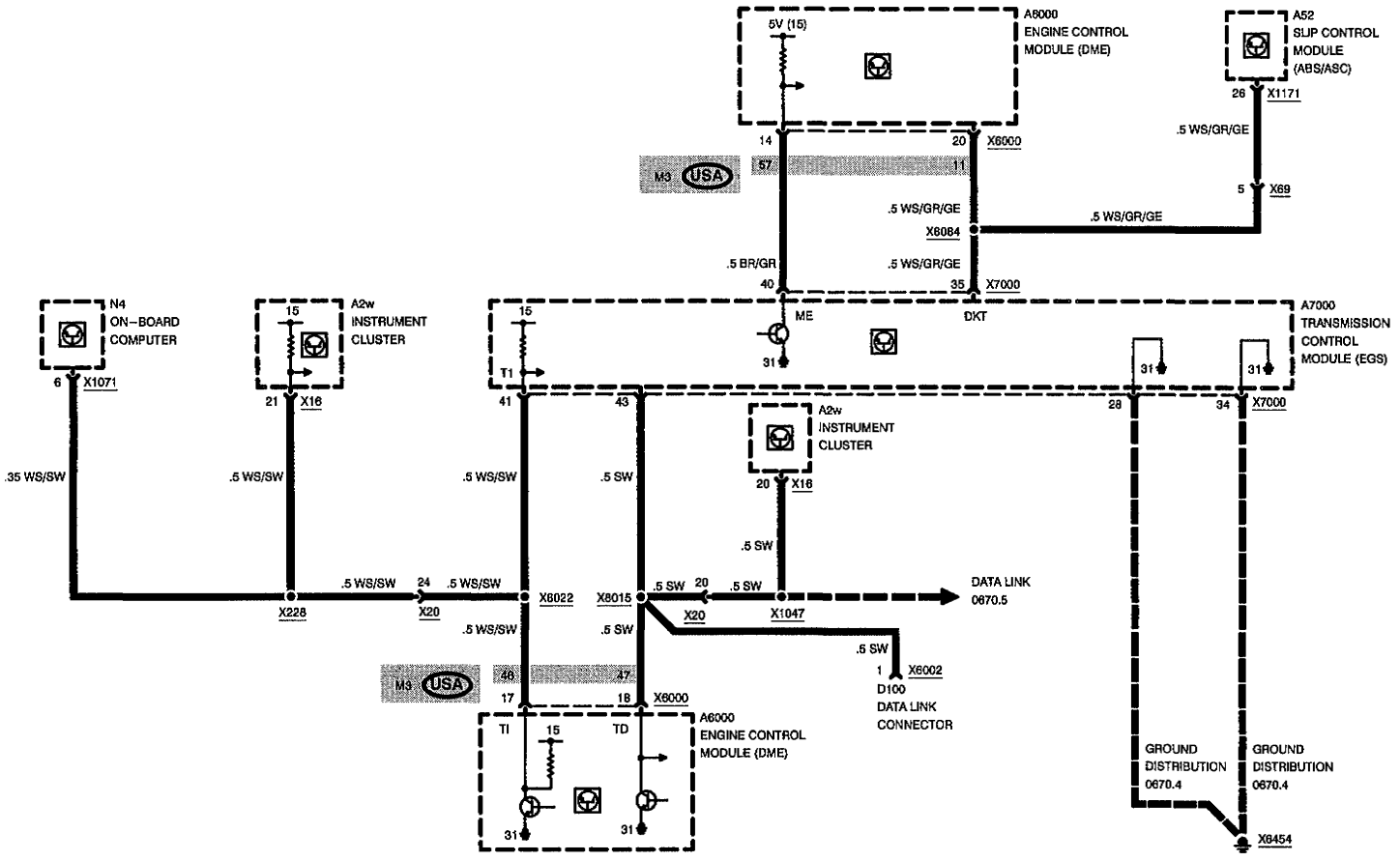
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ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



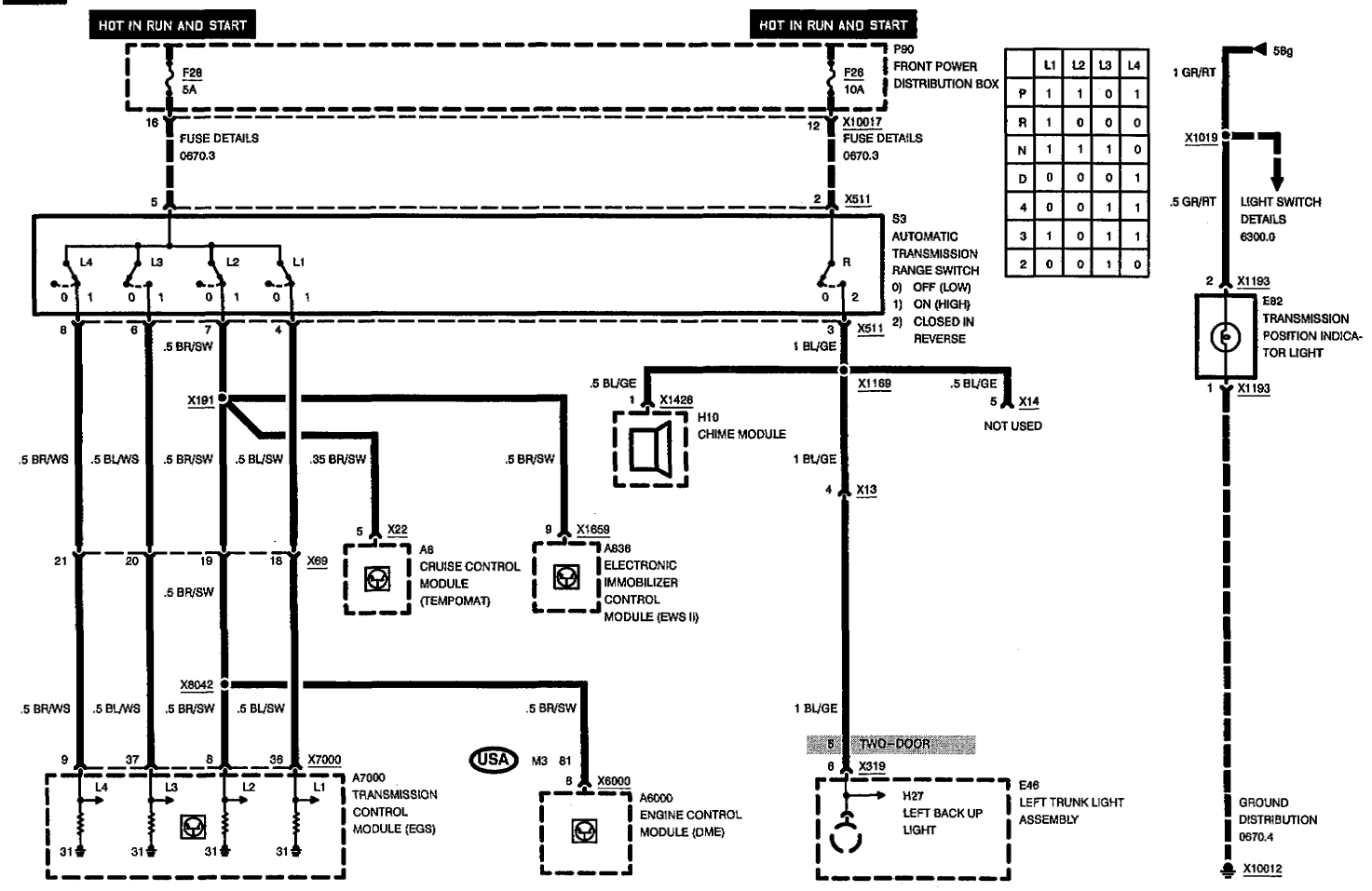
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ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



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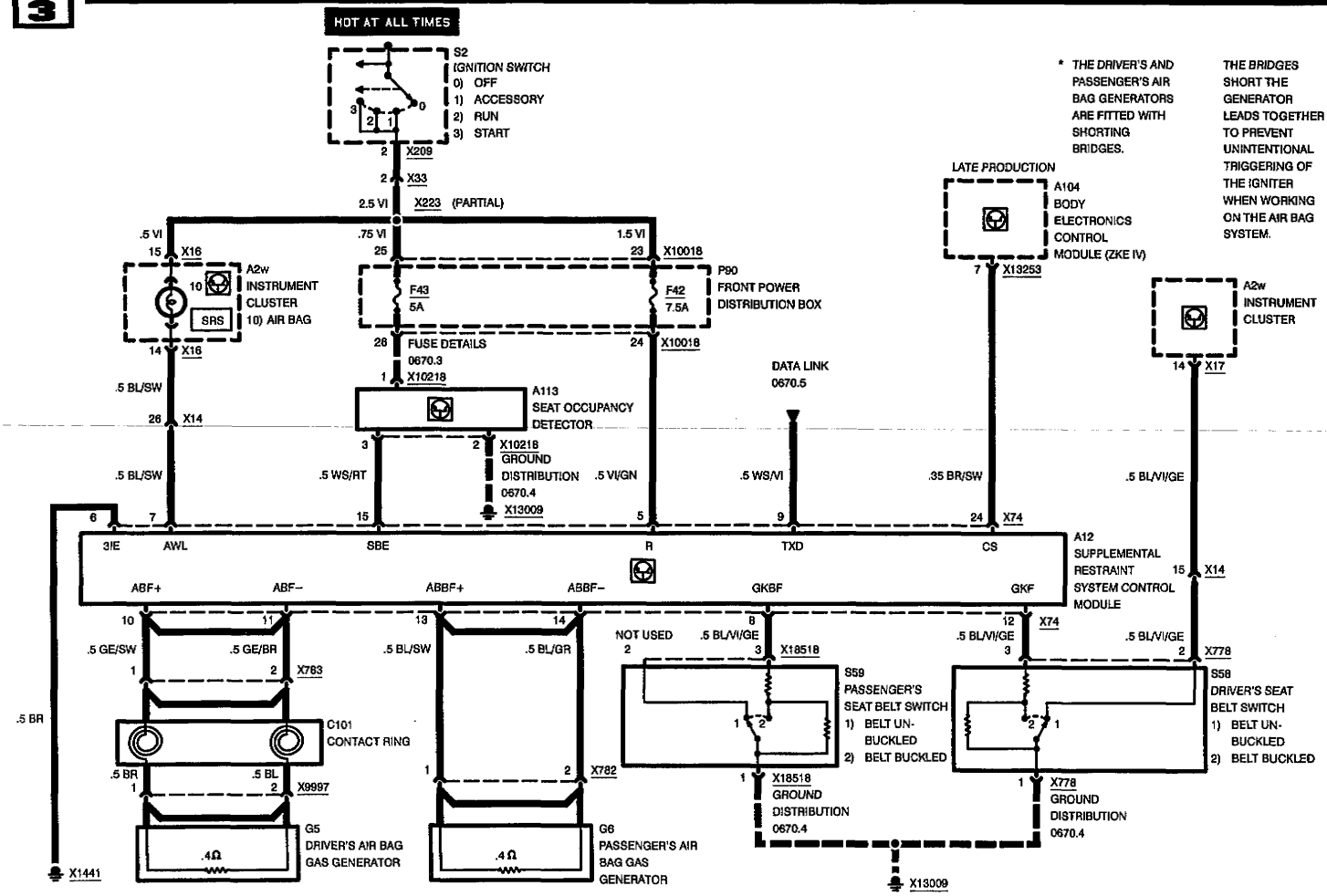
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



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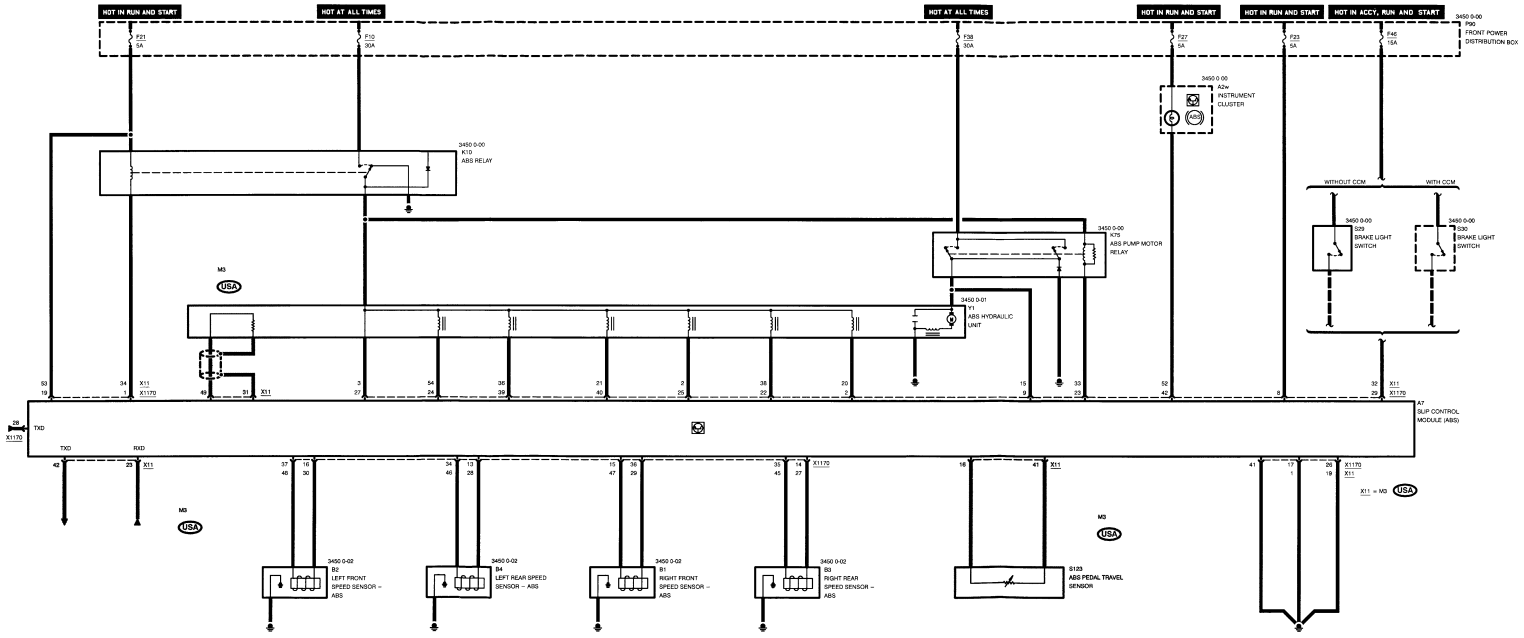
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SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

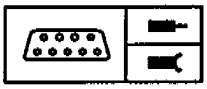


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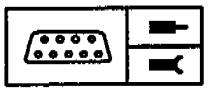
Pin Assignments

X1170

Pin	Type	Description/Function	Connection
1	A	ABS relay control	ABS relay
2	A	Right front inlet valve control	ABS hydraulic unit
3		Not used	
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8	E	Voltage supply, terminal 15	Front power distribution box, fuse 23
9	E	Operating voltage	ABS relay
10		Not used	
11		Not used	
12		Not used	
13	A	Speed sensor ground, RL	Left rear speed sensor - ABS
14	A	Speed sensor ground, RR	Right rear speed sensor - ABS
15	A	Speed sensor ground, FR	Right front speed sensor - ABS
16	A	Speed sensor ground, FL	Left front speed sensor - ABS
17	M	Ground, control module	Chassis ground
18		Not used	
19	E	Voltage supply, terminal 15	Front power distribution box, fuse 21
20		Not used	
21		Not used	
22	A	Left front inlet valve control	ABS hydraulic unit
23	A	ABS pump motor relay control	ABS pump motor relay
24	A	Rear axle inlet valve control	ABS hydraulic unit
25	A	Left front outlet valve control	ABS hydraulic unit
26	M	Ground, control module	Chassis ground
27	E	Voltage monitoring, hydraulics	ABS hydraulic unit
28	E/A	TxD diagnostic data link	Data link connector
29	E	Brake light signal	Brake light switch
30		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
31		Not used	
32		Not used	
33		Not used	
34	E	Speed sensor signal RL	Left rear speed sensor - ABS
35	E	Speed sensor signal RR	Right rear speed sensor - ABS
36	E	Speed sensor signal FR	Right front speed sensor - ABS
37	E	Speed sensor signal FL	Left front speed sensor - ABS
38		Not used	
39	A	Rear axle outlet valve control	ABS hydraulic unit
40	A	Right front outlet valve control	ABS hydraulic unit
41	M	Ground, control module	Chassis ground
42	A	ABS warning lamp control	Instrument cluster
43		Not used	
44		Not used	
45		Not used	
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54		Not used	
55		Not used	

E = Input, A = Output, M = Ground

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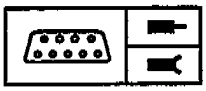
Pin Assignments (M3 USA)

X11

Pin	Type	Description/Function	Connection
1	M	Ground, control module	Chassis ground
2	A	Left front outlet valve	ABS hydraulic unit
3	E	Voltage monitoring, hydraulics	ABS hydraulic unit
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	
13		Not used	
14		Not used	
15	E	Operating voltage	ABS relay
16	E	Pedal travel sensor	ABS pedal travel sensor
17		Not used	
18		Not used	
19	M	Ground, control module	Chassis ground
20	A	Left front inlet valve	ABS hydraulic unit
21	A	Right front outlet valve control	ABS hydraulic unit
22		Not used	
23	A	RxD diagnostic data link	Data link connector
24		Not used	
25		Not used	
26		Not used	
27	A	Speed sensor ground, RR	Right rear speed sensor - ABS
28	A	Speed sensor ground, RL	Left rear speed sensor - ABS
29	E	Speed sensor signal, FR	Right front speed sensor - ABS
30	A	Speed sensor ground, FL	Left front speed sensor - ABS

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Pin Assignments (M3 USA)

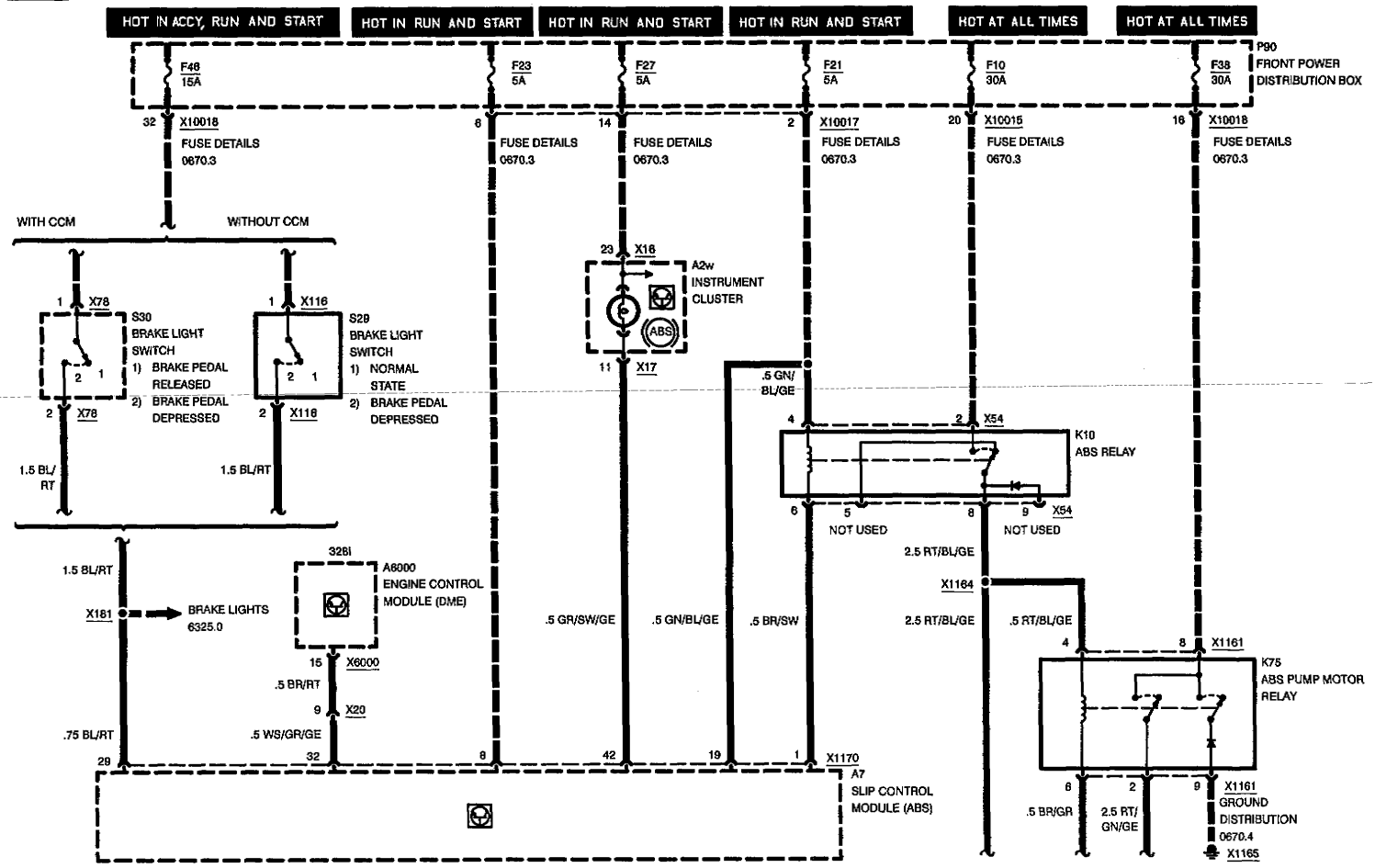
Pin	Type	Description/Function	Connection
31	A	Fuel injection quantity controller	ABS hydraulic unit
32	E	Brake light signal	Brake light switch
33	A	ABS pump motor relay control	ABS pump motor relay
34	A	ABS relay control	ABS relay
35		Not used	
36	A	Rear axle outlet valve control	ABS hydraulic unit
37		Not used	
38	A	Right front inlet valve control	ABS hydraulic unit
39		Not used	
40		Not used	
41	E	Pedal travel sensor	ABS pedal travel sensor
42	E/A	TxD diagnostic data link	Data link connector
43		Not used	
44		Not used	
45	E	Speed sensor signal, RR	Right rear speed sensor - ABS
46	E	Speed sensor signal, RL	Left rear speed sensor - ABS
47	A	Speed sensor signal, FR	Right front speed sensor - ABS
48	E	Speed sensor signal, FL	Left front speed sensor - ABS
49	A	Fuel injection quantity controller	ABS hydraulic unit
50		Not used	
51		Not used	
52	A	ABS warning lamp control	Instrument cluster
53	E	Voltage supply, terminal 15	Front power distribution box, fuse 21
54	A	Rear axle inlet valve control	ABS hydraulic unit

E = Input, A = Output, M = Ground

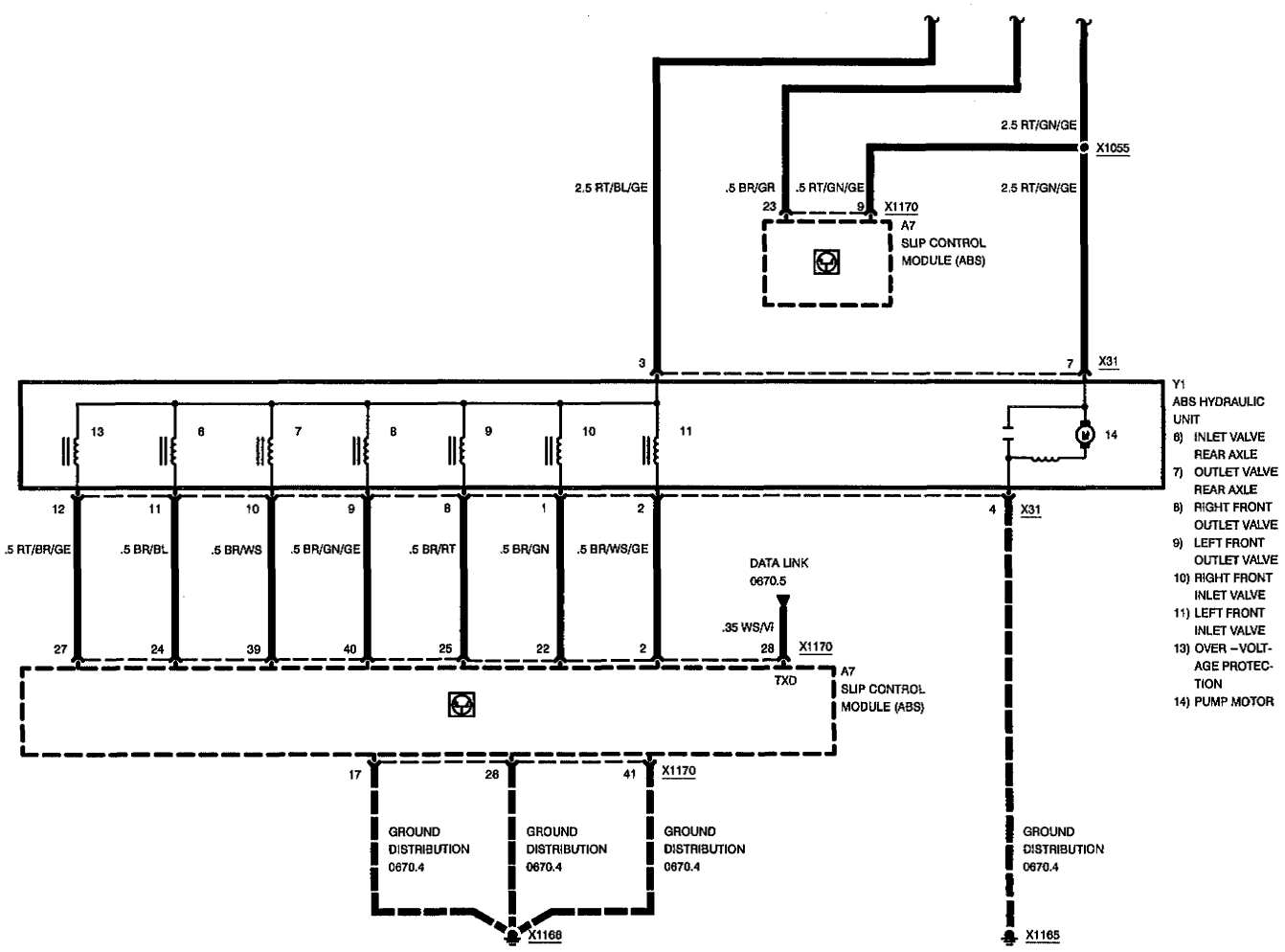
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SLIP CONTROL (ABS)

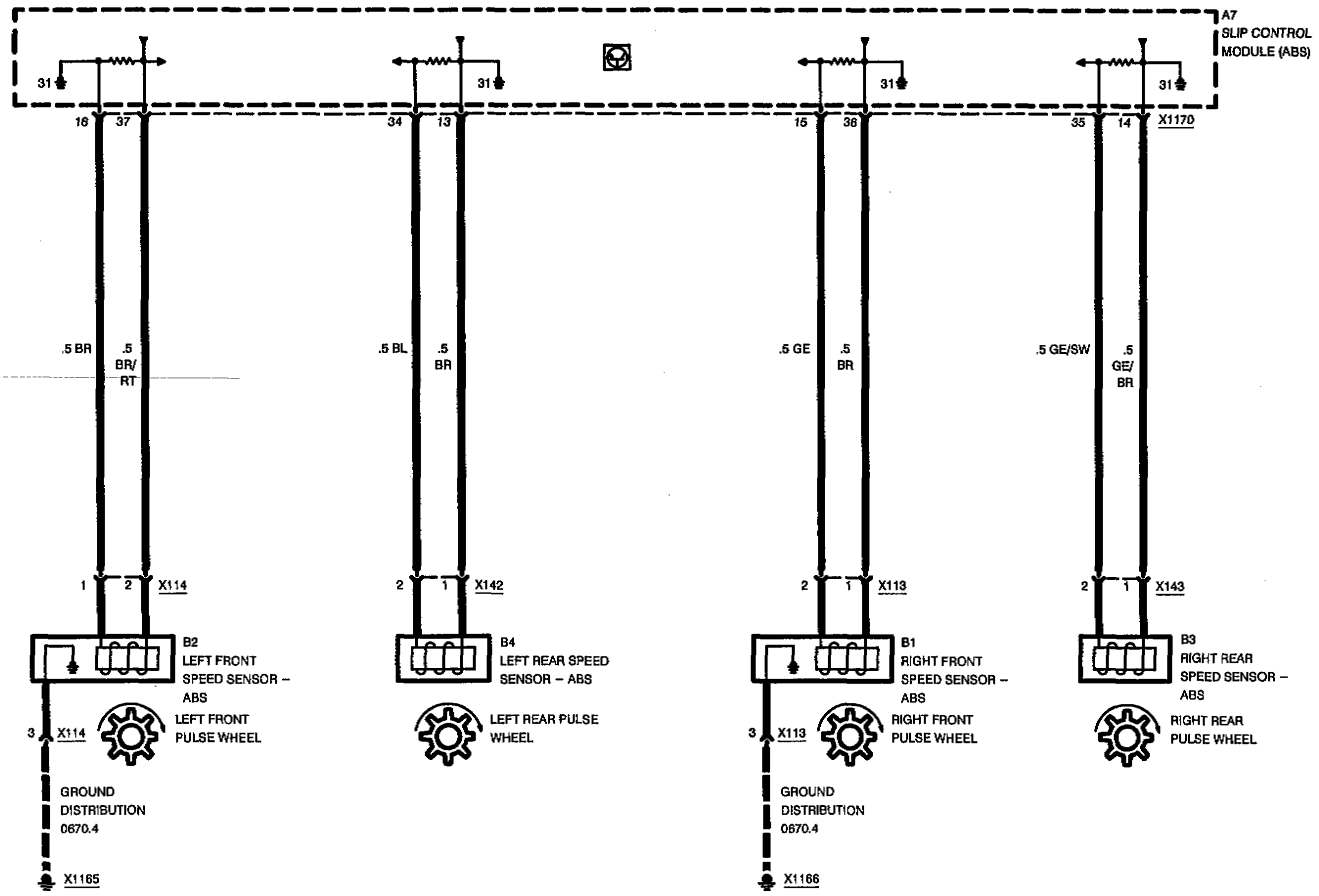


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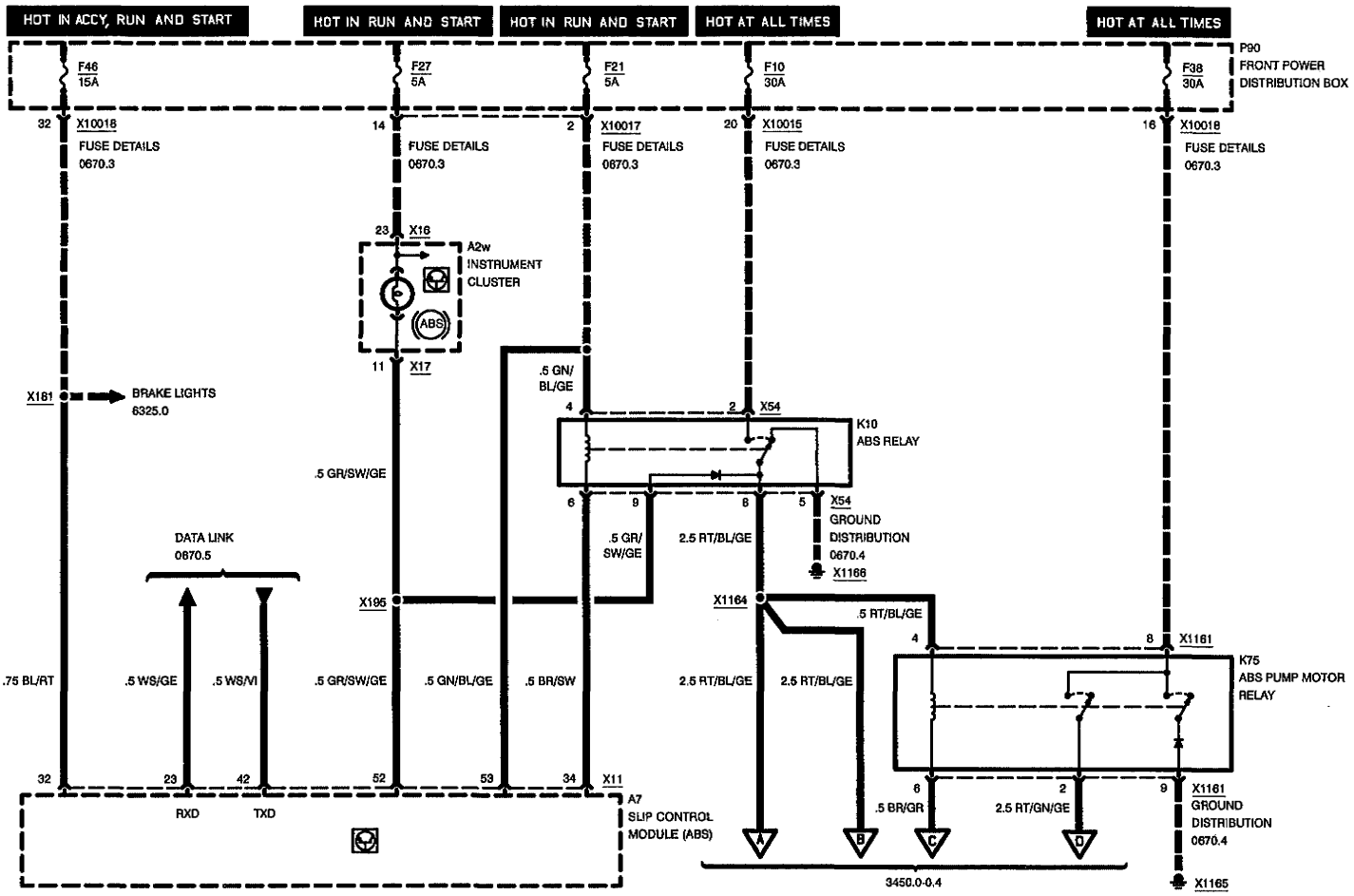
SLIP CONTROL (ABS)



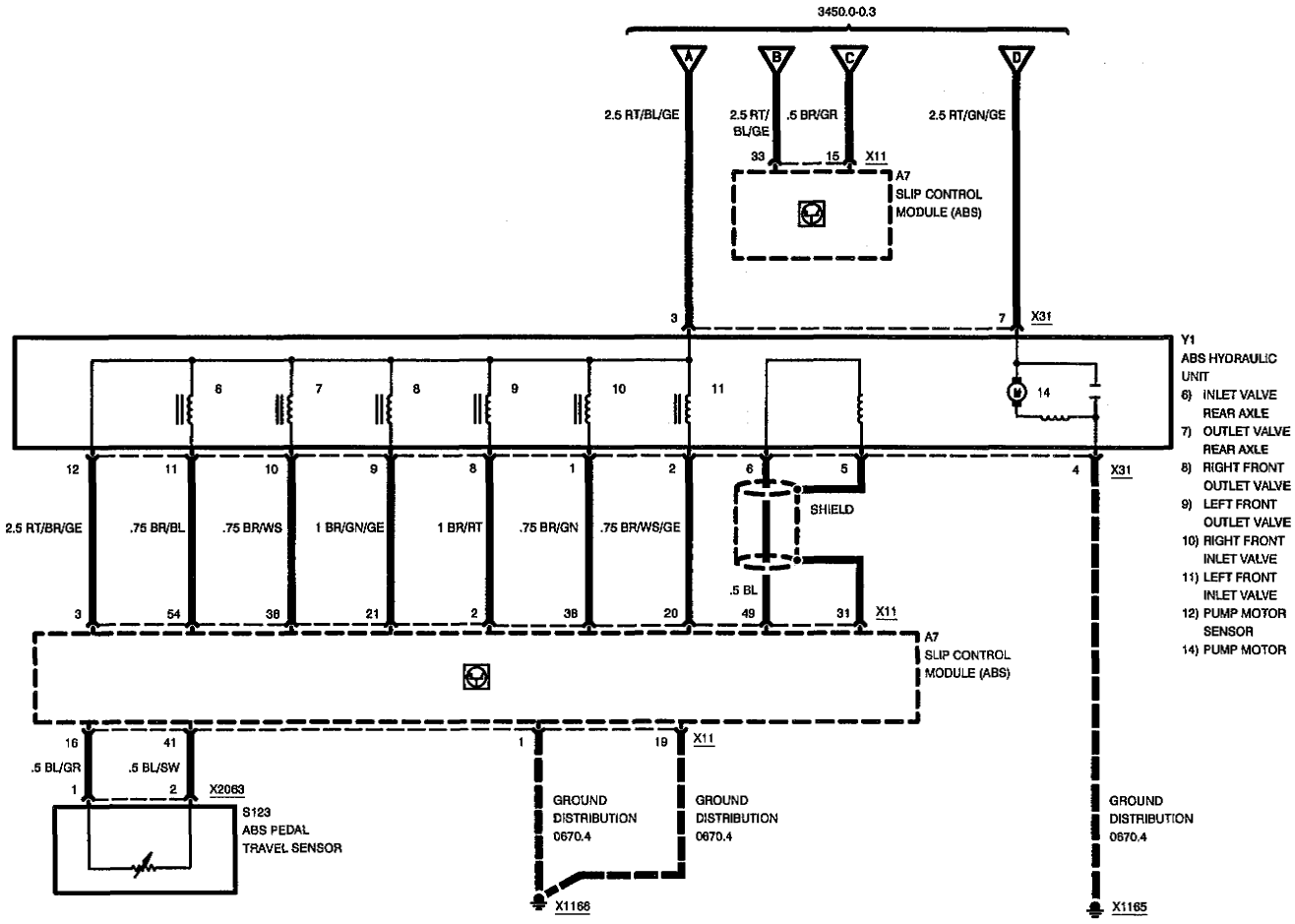
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SLIP CONTROL (ABS)

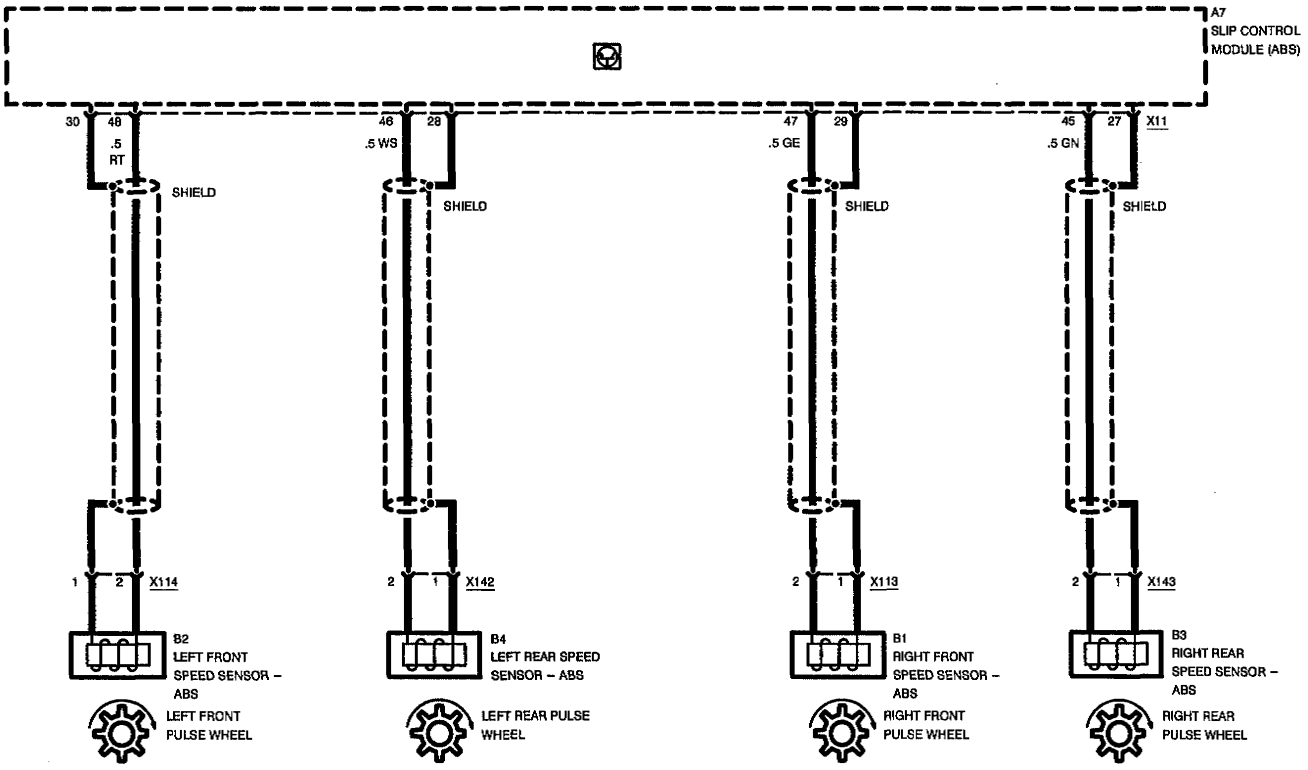
M3 USA



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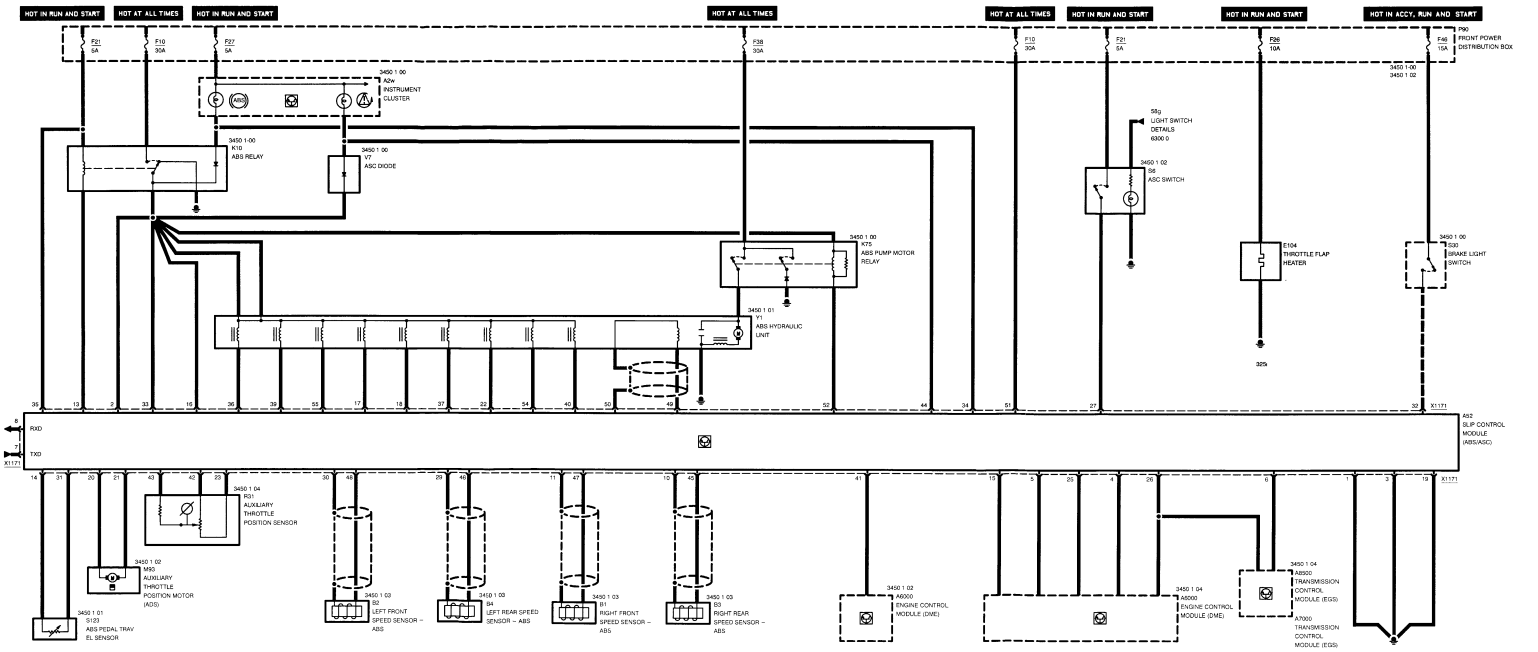


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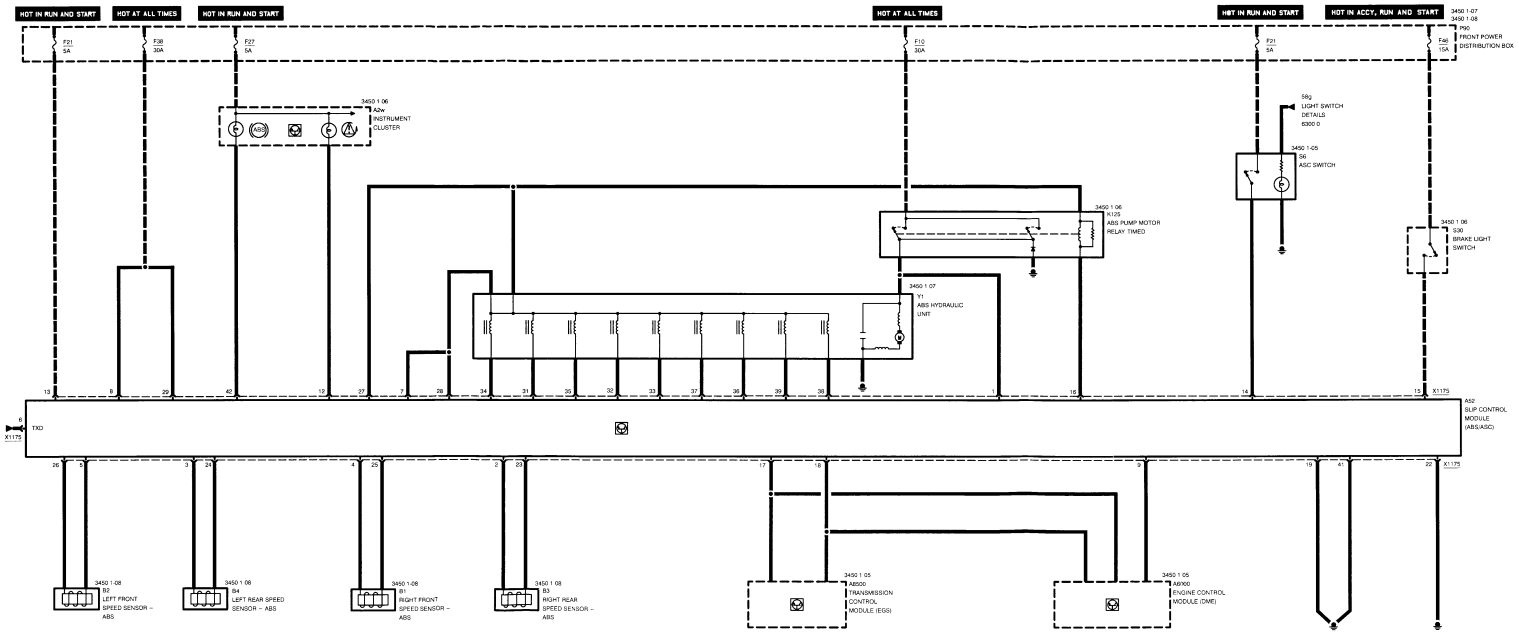
325i, 328i, M3



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04/97 — 3450 1b — 1996
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318is



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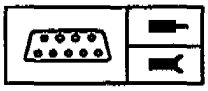
Pin Assignments (325i, 328i, M3)

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	EGS module
7	E/A	TxD signal	Diagnostic link
8	A	RxD signal	Diagnostic link
9		Not used	
10	A	Sensor ground	ABS speed sensor rear right
11	A	Sensor ground	ABS speed sensor front right
12		Not used	
13	A	ABS power protection relay	ABS power protection relay
14	E	Signal ABS travel sensor	ABS travel sensor
15	E	Speed sensor signal right rear	DME module
16	E	Current	ABS relay
17	A	Solenoid valve signal left rear	ABS hydraulic unit
18	A	Solenoid valve signal left rear	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	ABS hydraulic unit
23	E	ASC throttle flap potentiometer	ASC throttle flap motor
24		Not used	
25	E	Signal idle speed	DME module
26	A	Throttle flap position	DME module
27	E	ASC switch signal	ASC switch
28		Not used	
29	A	Sensor ground	ABS speed sensor rear left
30	A	Sensor gound	ABS speed sensor front left

E = Input, A = Output, M = Ground

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Pin Assignments (325i, 328i, M3)

Pin	Type	Description/Function	Connection
31	A	Signal ABS travel sensor	ABS travel sensor
32	E	Brake signal	Brake light switch
33	E	Plus supply	ABS protection relay
34	A	ABS lamp control	Instrument cluster
35	E	Ignition signal	Ignition switch
36	A	Solenoid valve	ABS hydraulic unit
37	A	Solenoid valve signal right front	ABS hydraulic unit
38		Not used	
39	A	Solenoid valve signal left rear	ABS hydraulic unit
40	A	Solenoid valve signal left front	ABS hydraulic unit
41	E	Speed signal	DME module
42	E	ASC throttle flap potentiometer	ASC throttle flap potentiometer
43	E	ASC throttle flap potentiometer	ASC throttle flap potentiometer
44	A	ASC lamp control	Instrument cluster
45	E	Speed sensor signal rear right	Speed sensor rear right
46	E	Speed sensor signal rear left	Speed sensor rear left
47	E	Speed sensor signal front right	Speed sensor front right
48	E	Speed sensor signal front left	Speed sensor front left
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	ABS hydraulic unit
55	A	Solenoid valve signal left rear	ABS hydraulic unit

E = Input, A = Output, M = Ground

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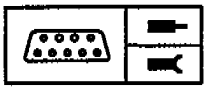
Pin Assignments (318is)

X1175

Pin	Type	Description/Function	Connection
1	E	Signal pump motor	ABS pump motor relay
2	A	Sensor ground	Right rear speed sensor - ABS
3	A	Sensor gound	Left rear speed sensor - ABS
4	A	Sensor ground	Right front speed sensor - ABS
5	A	Sensor ground	Leftt front speed sensor - ABS
6	E/A	TxD diagnostic data link	Data link connector
7	A	Signal ABS	ABS hydraulic unit
8	E	Voltage supply	Fuse 38
9	A	Speed signal right rear	DME-module
10		Not used	
11		Not used	
12	A	Signal ASC	Instrument cluster
13	E	Voltage supply	Fuse 21
14	E	Signal ASC	ASC switch
15	E	Brake pedal position	Brake light switch
16	A	Activate relay	ABS pump motor relay
17	E/A	CAN HIGH	DME/EGS module
18	E/A	CAN LOW	DME/EGS module
19	M	Ground	Ground point
20		Not used	
21		Not used	
22	M	Ground	Ground point
23	E	Speed signal	Right rear speed sensor - ABS
24	E	Speed signal	Left rear speed sensor- ABS
25	E	Speed signal	Right front speed sensor - ABS
26	E	Speed signal	Left front speed sensor - ABS
27	A	Signal ABS	ABS pump motor relay/Hydraulic unit
28	A	Signal ABS	ABS hydraulic unit
29	E	Voltage supply	Fuse 38
30		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments (318is)

Pin	Type	Description/Function	Connection
31	A	Seperator valve	ABS hydraulic unit
32	A	Left rear inlet valve	ABS hydraulic unit
33	A	Left rear outlet valve	ABS hydraulic unit
34	A	Right rear inlet valve	ABS hydraulic unit
35	A	Right rear outlet valve	ABS hydraulic unit
36	A	Left front outlet valve	ABS hydraulic unit
37	A	Right front outlet valve	ABS hydraulic unit
38	A	Left front inlet valve	ABS hydraulic unit
39	A	Right front inlet valve	ABS hydraulic unit
40		Not used	
41	M	Ground	Ground point
42	A	ABS signal	Instrument cluster

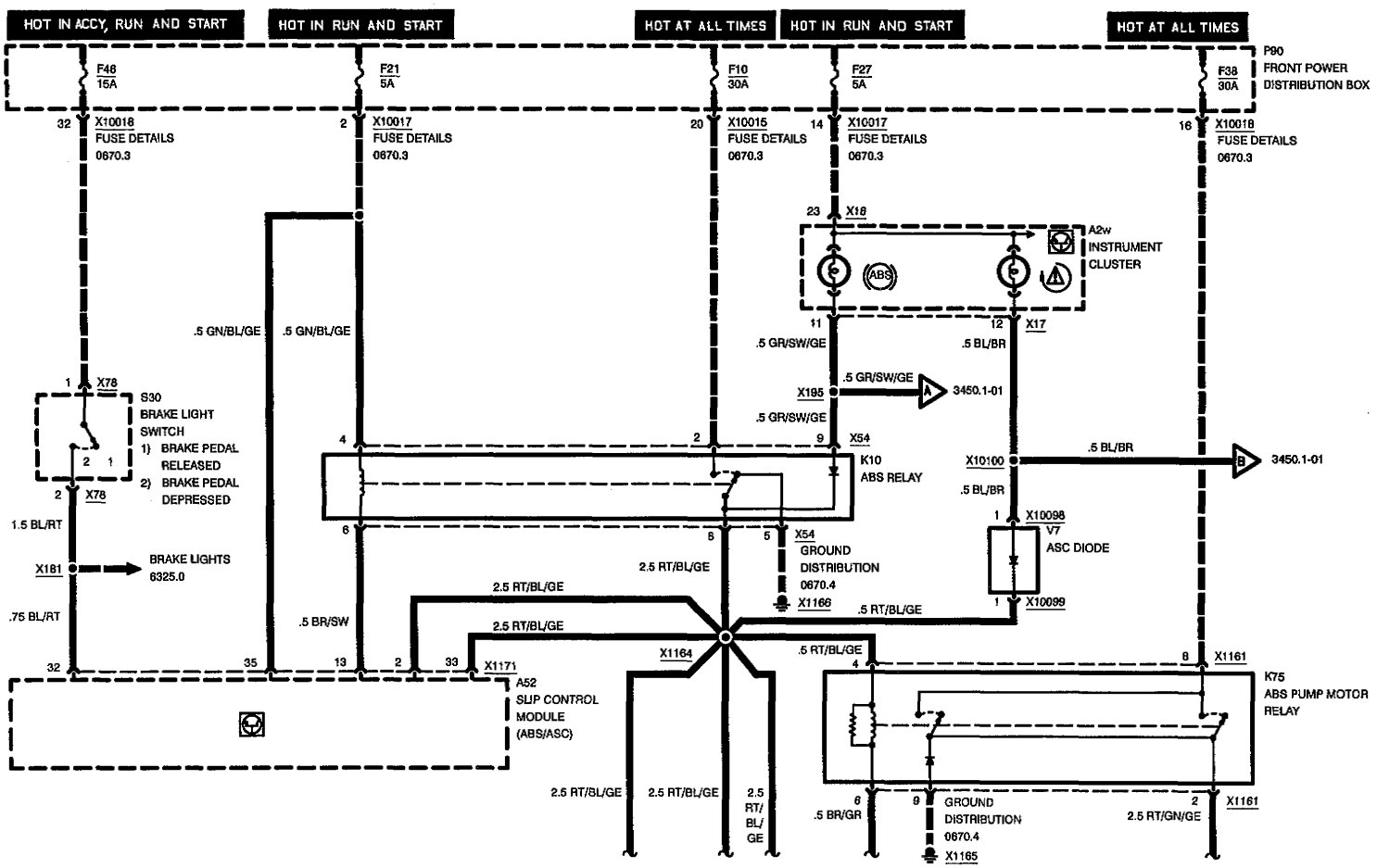
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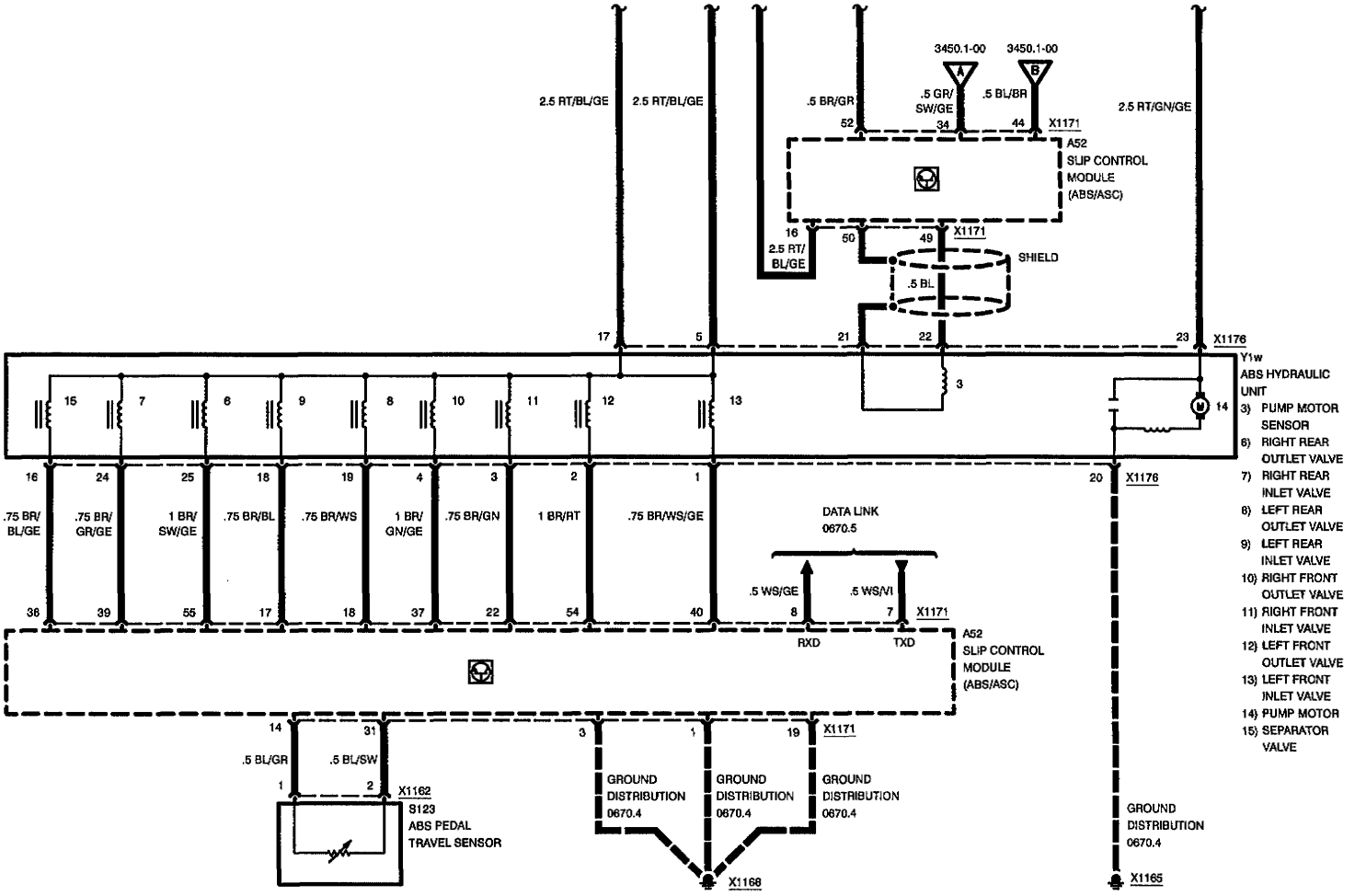
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SLIP CONTROL (ABS/ASC)

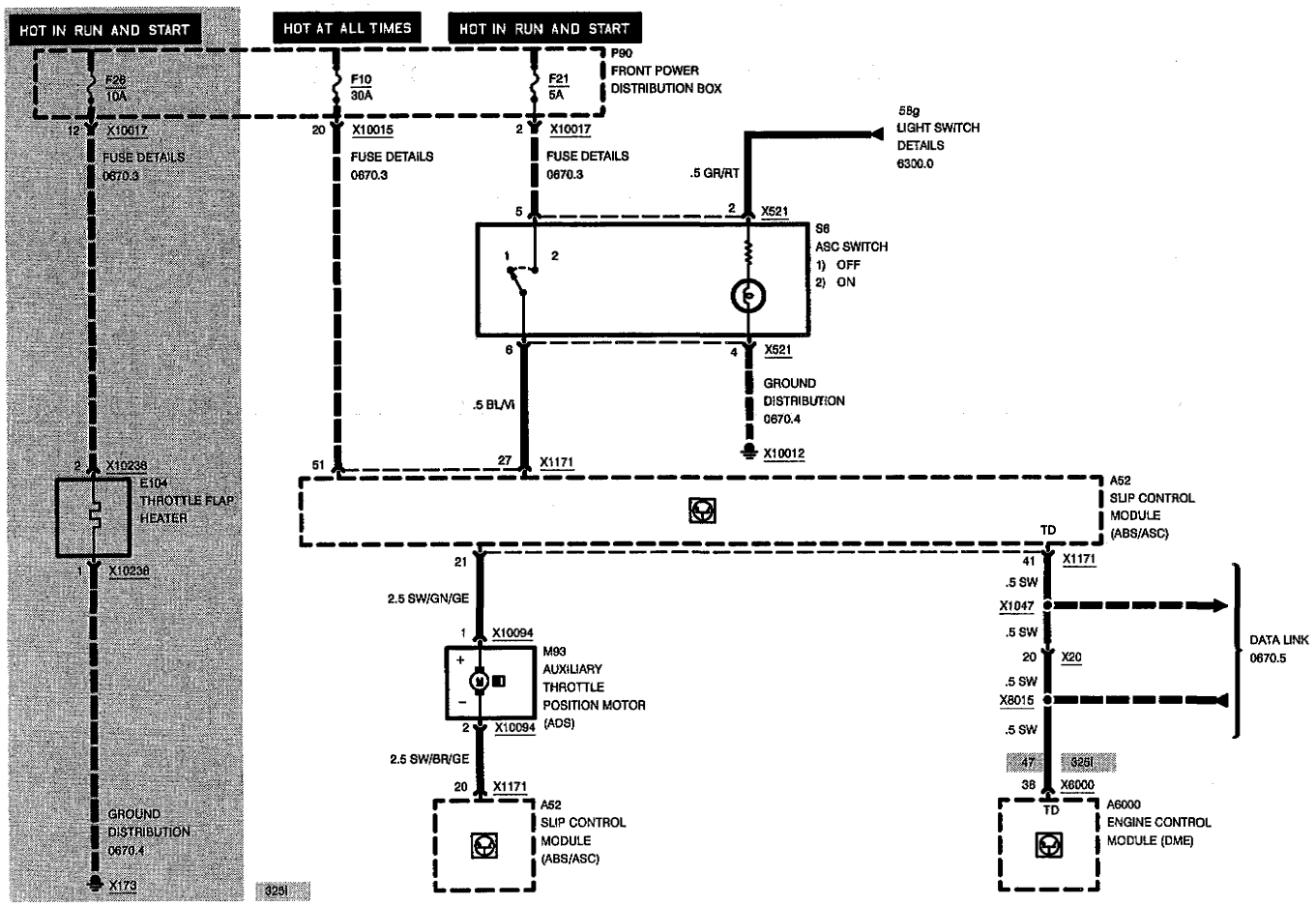
325i, 328i, M3



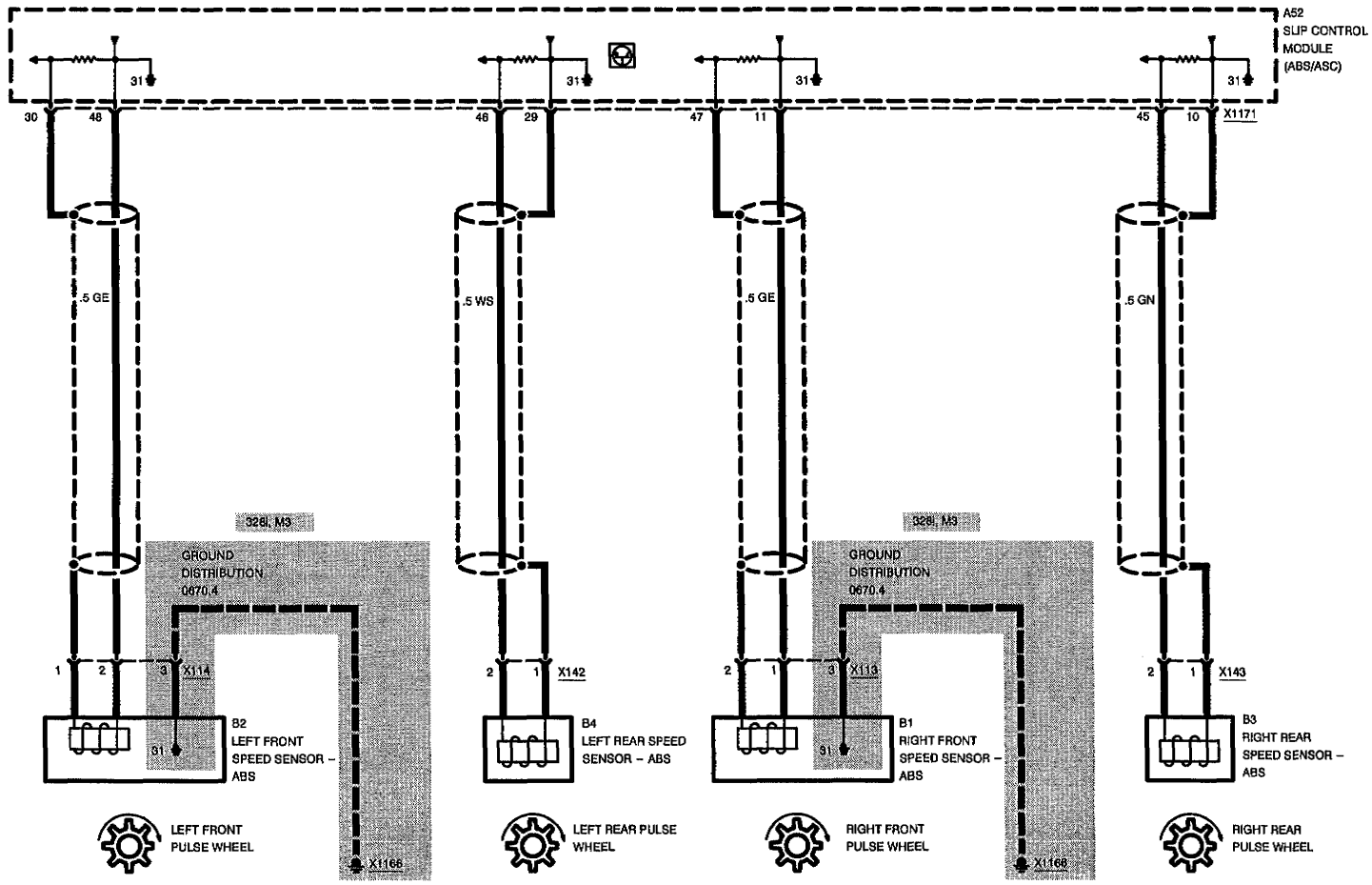
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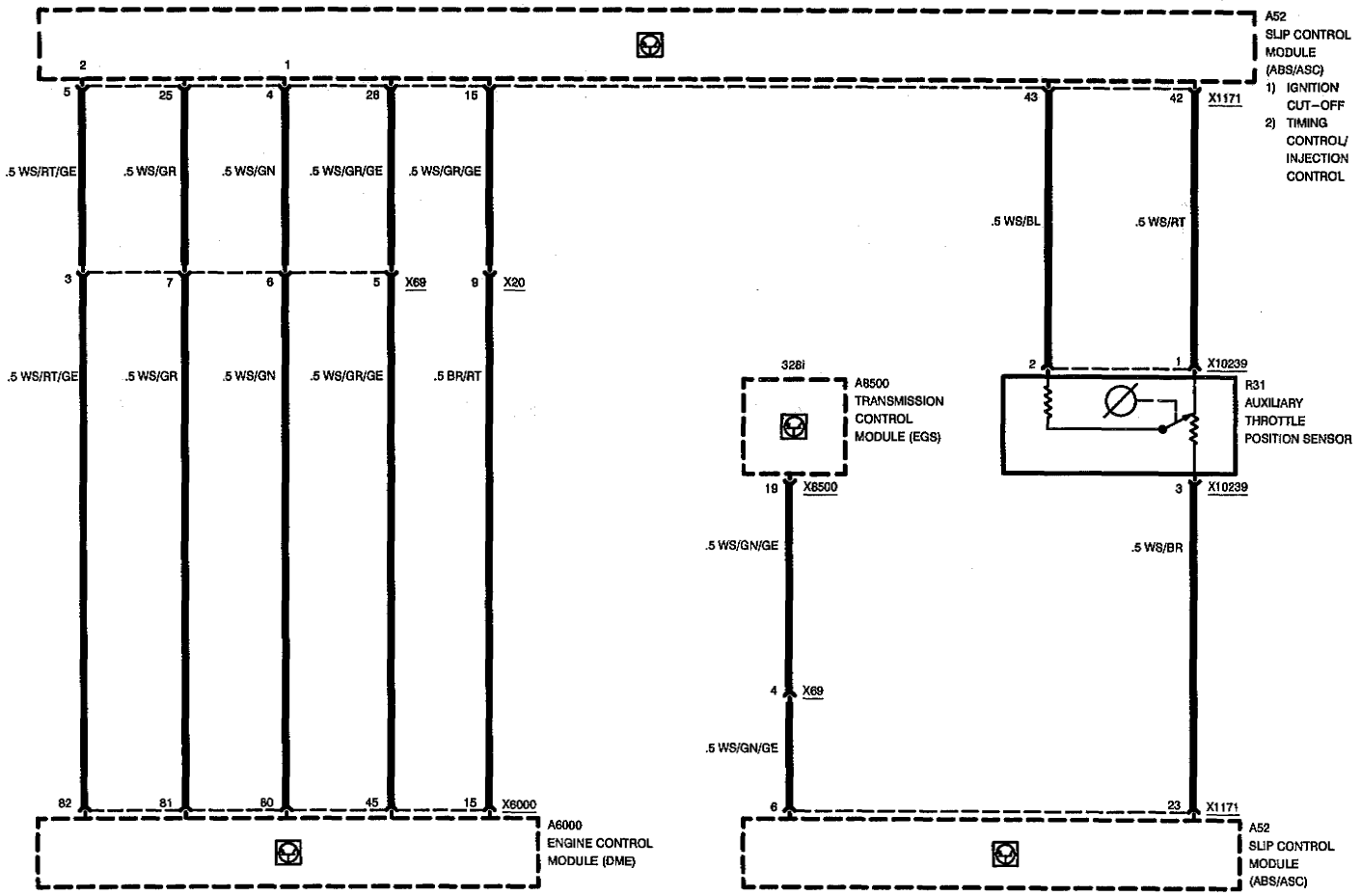
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SLIP CONTROL (ABS/ASC)

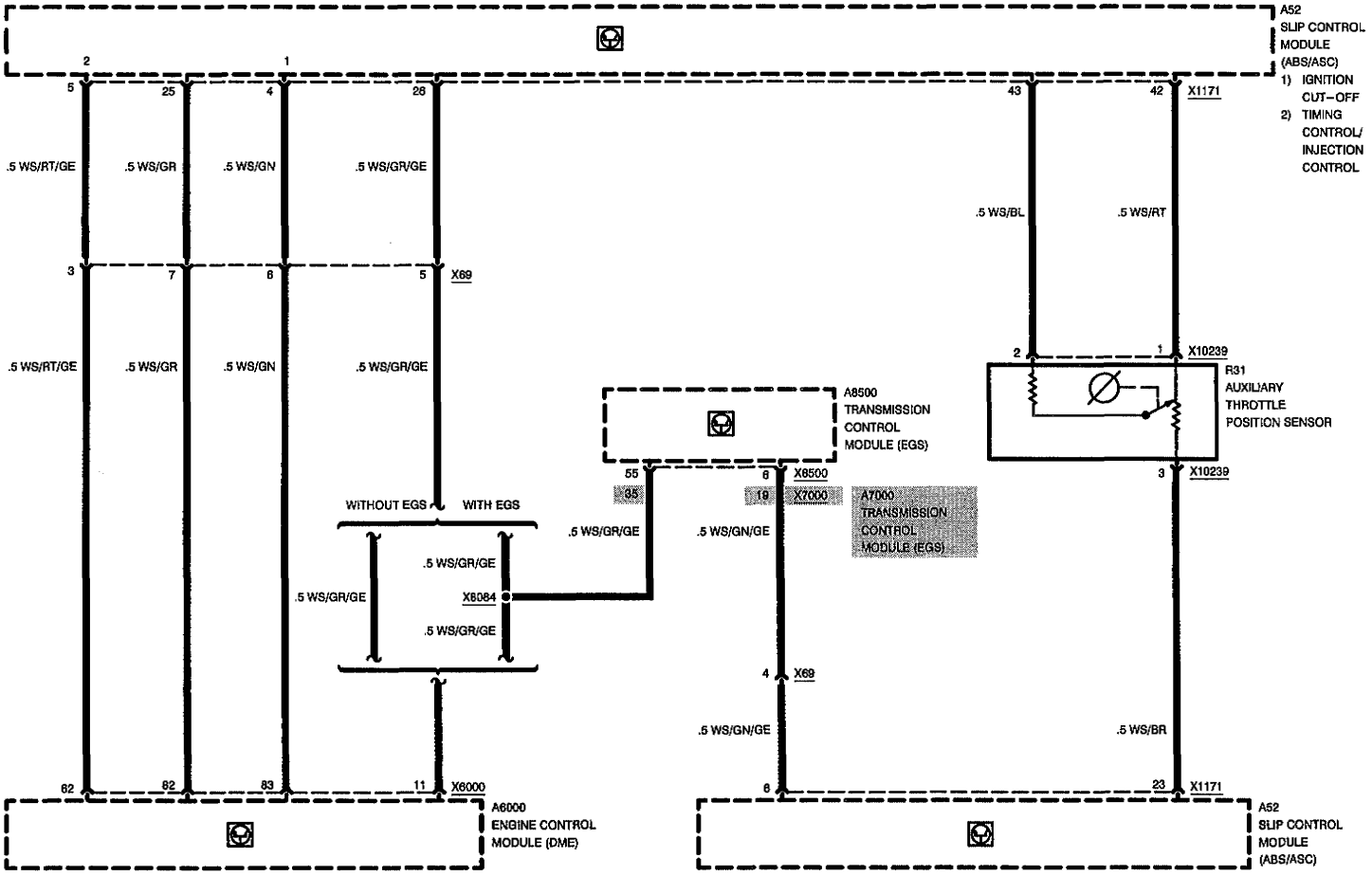
328i, M3



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SLIP CONTROL (ABS/ASC)

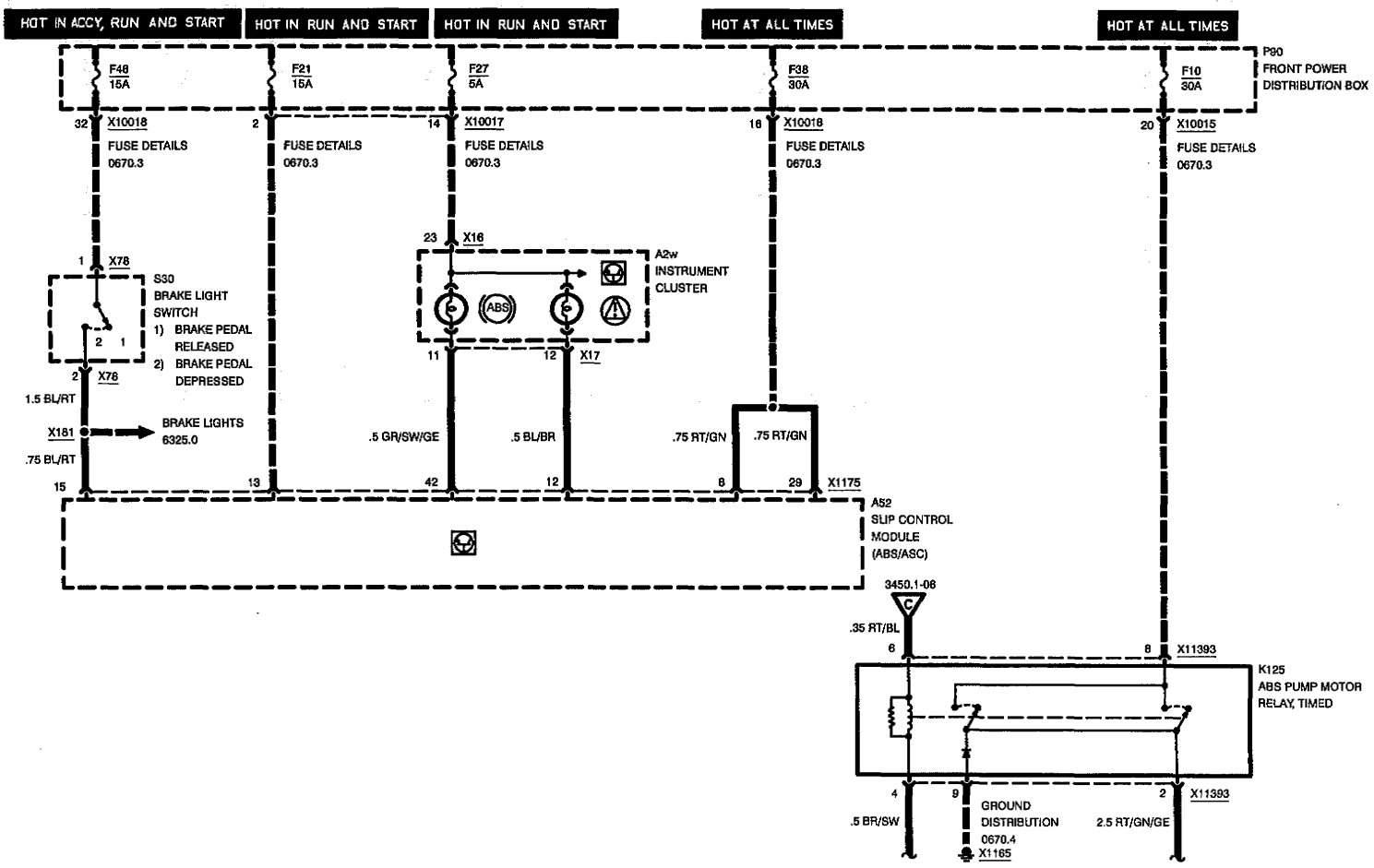
325i, M3 (USA)



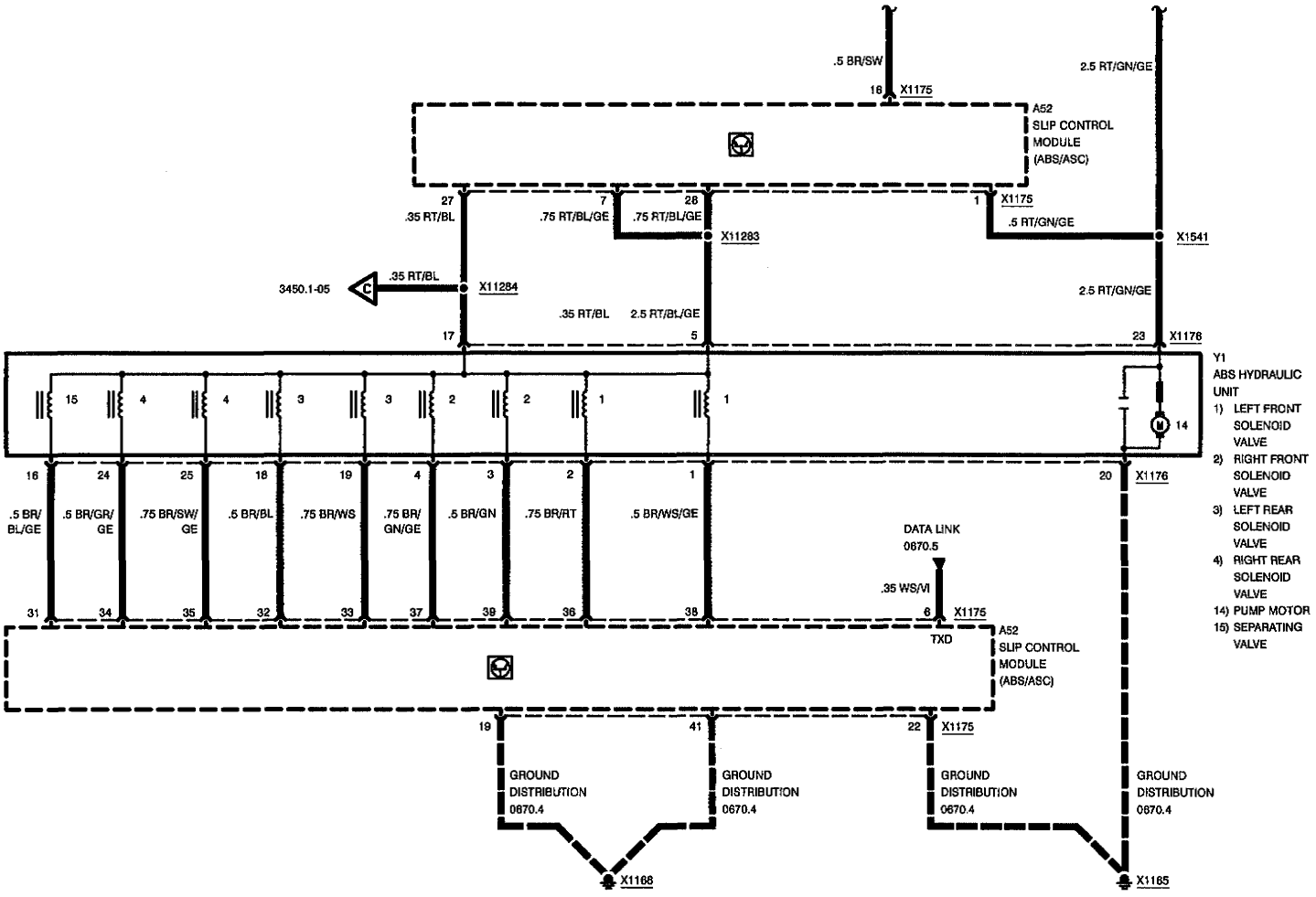
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SLIP CONTROL (ABS/ASC)

318is



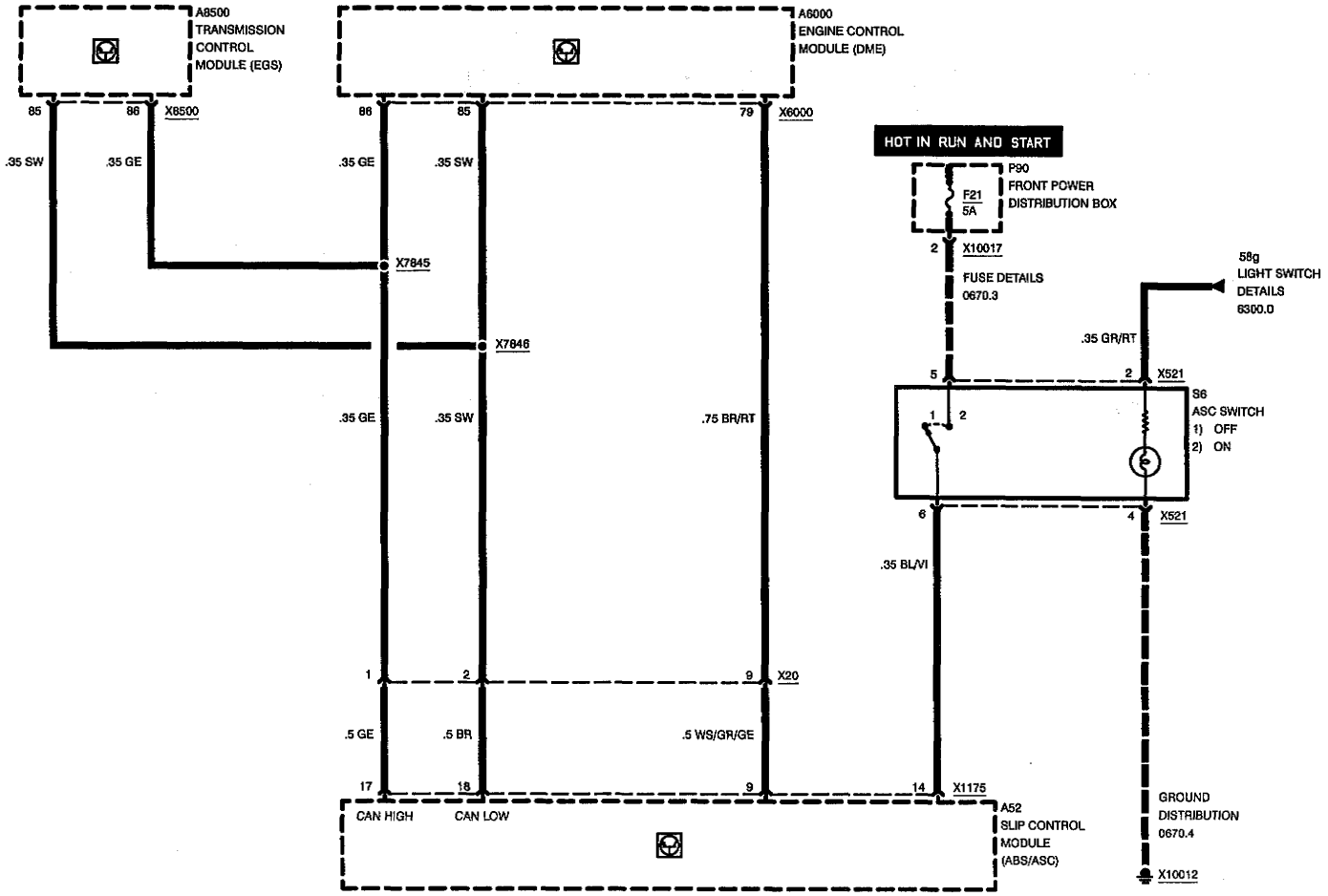
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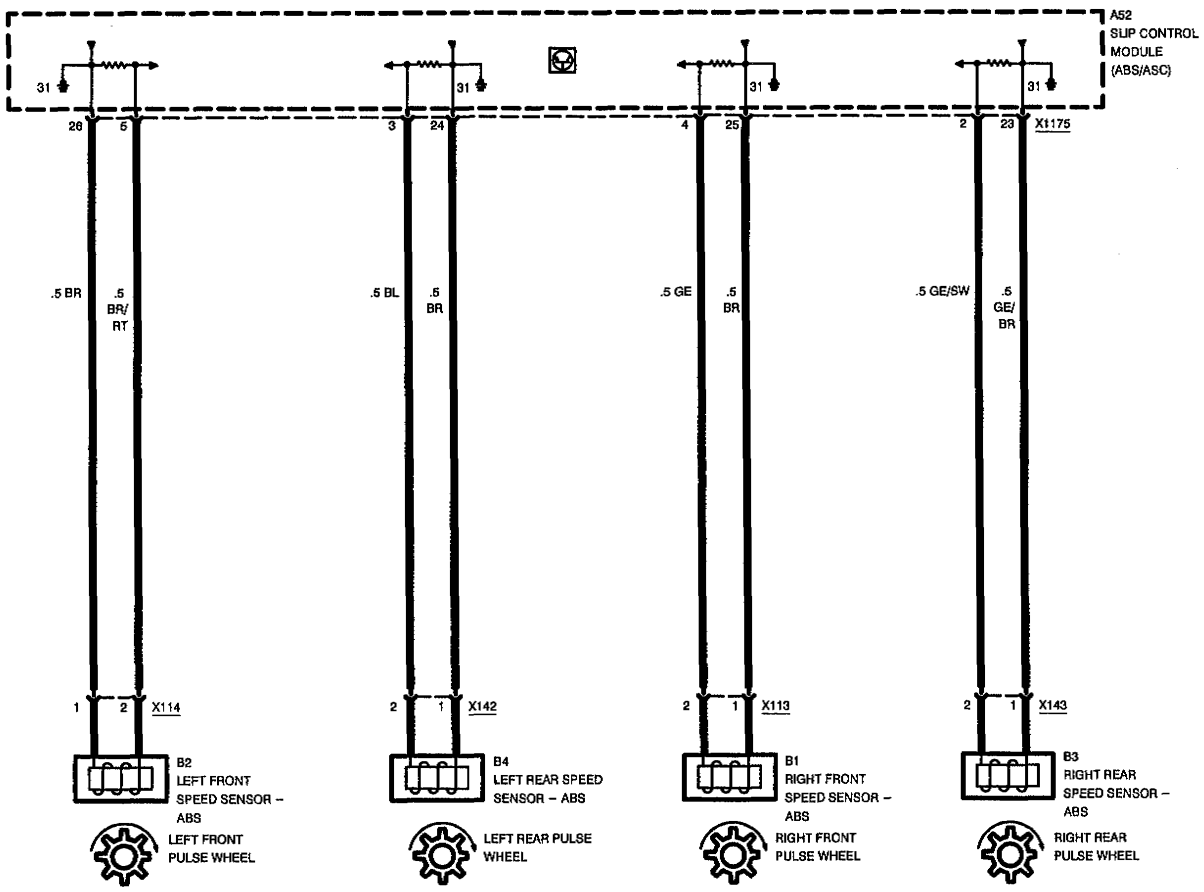
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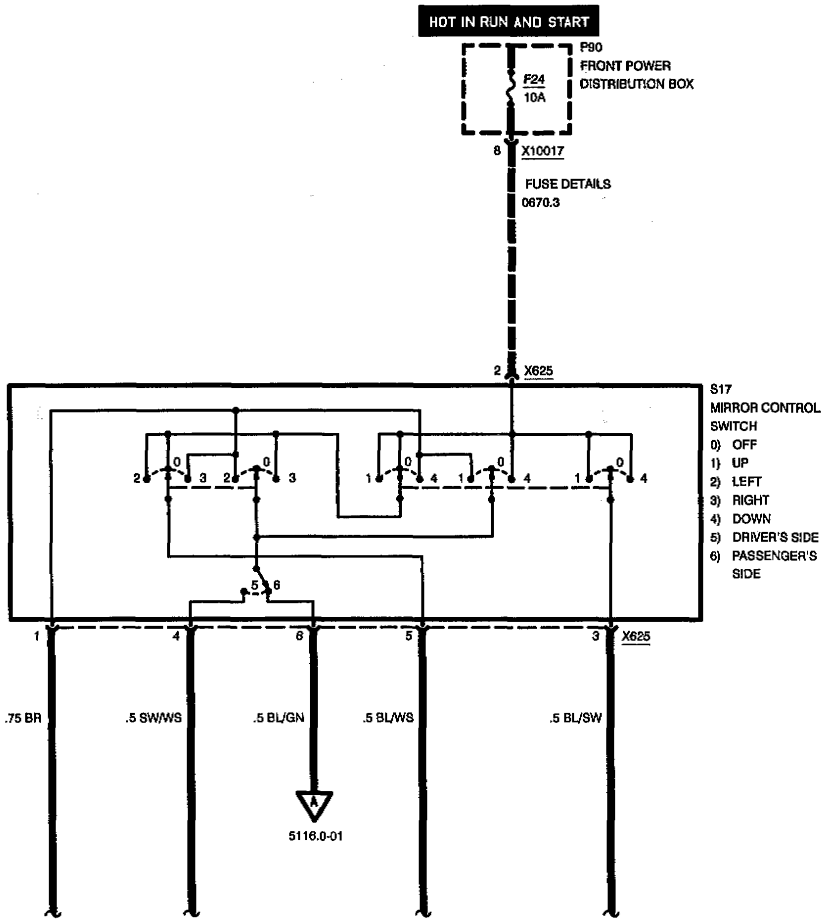
318is



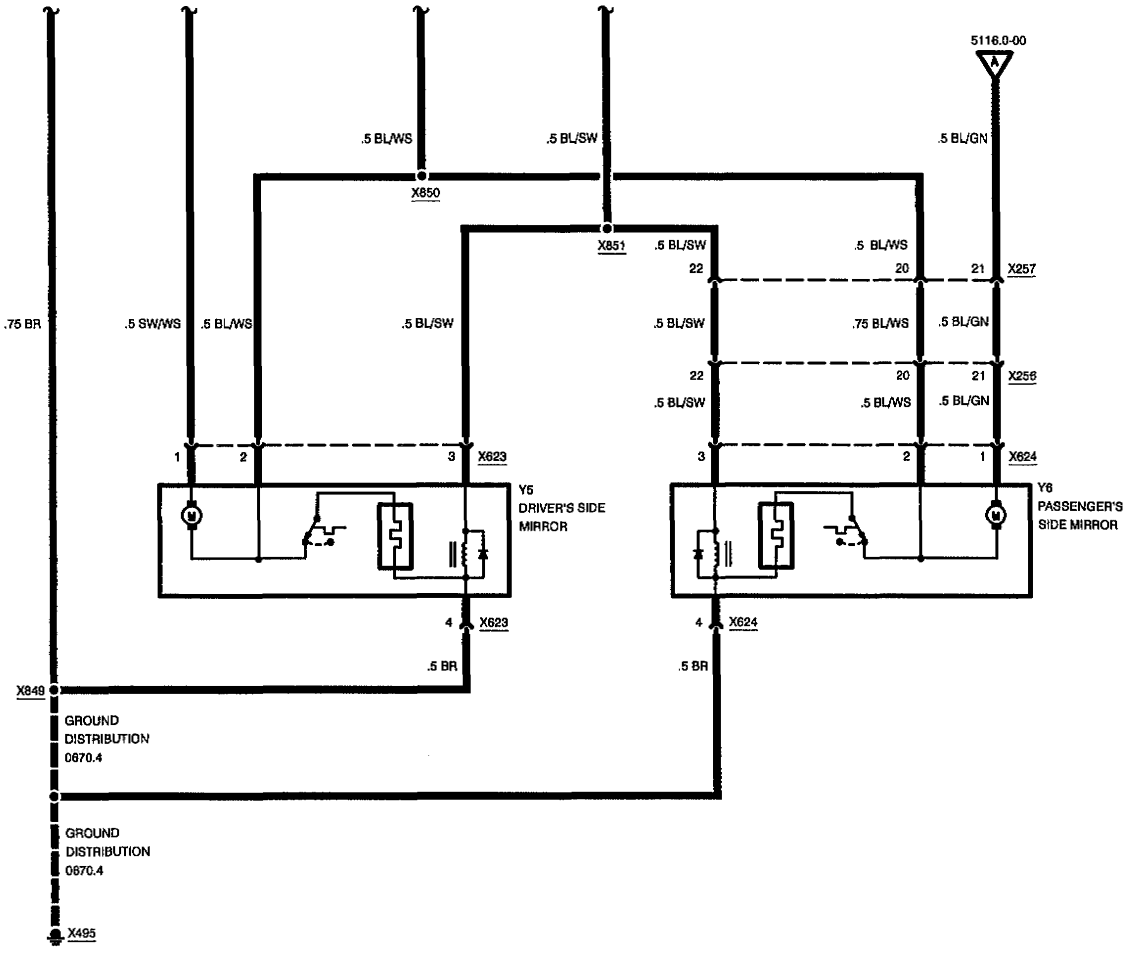
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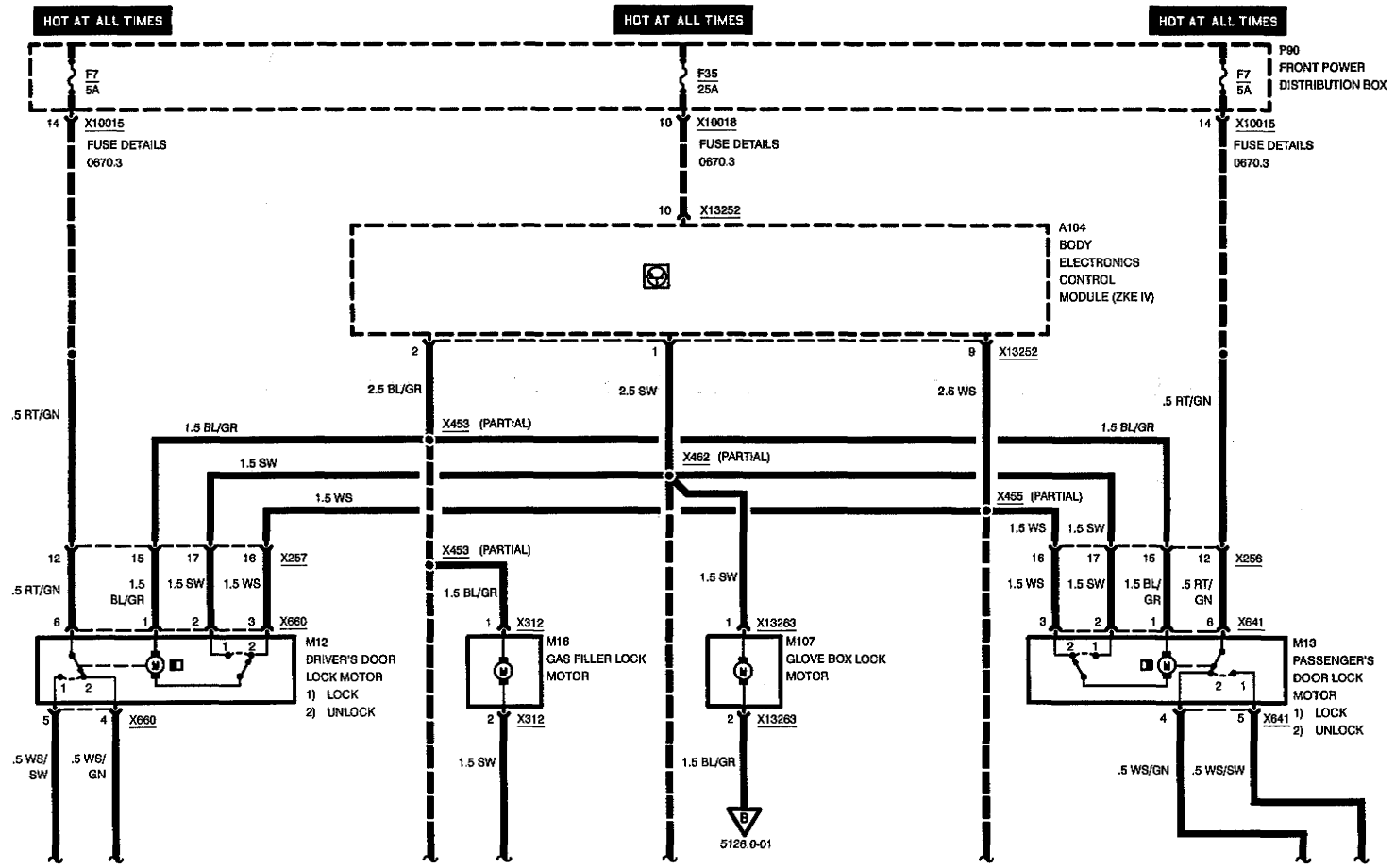
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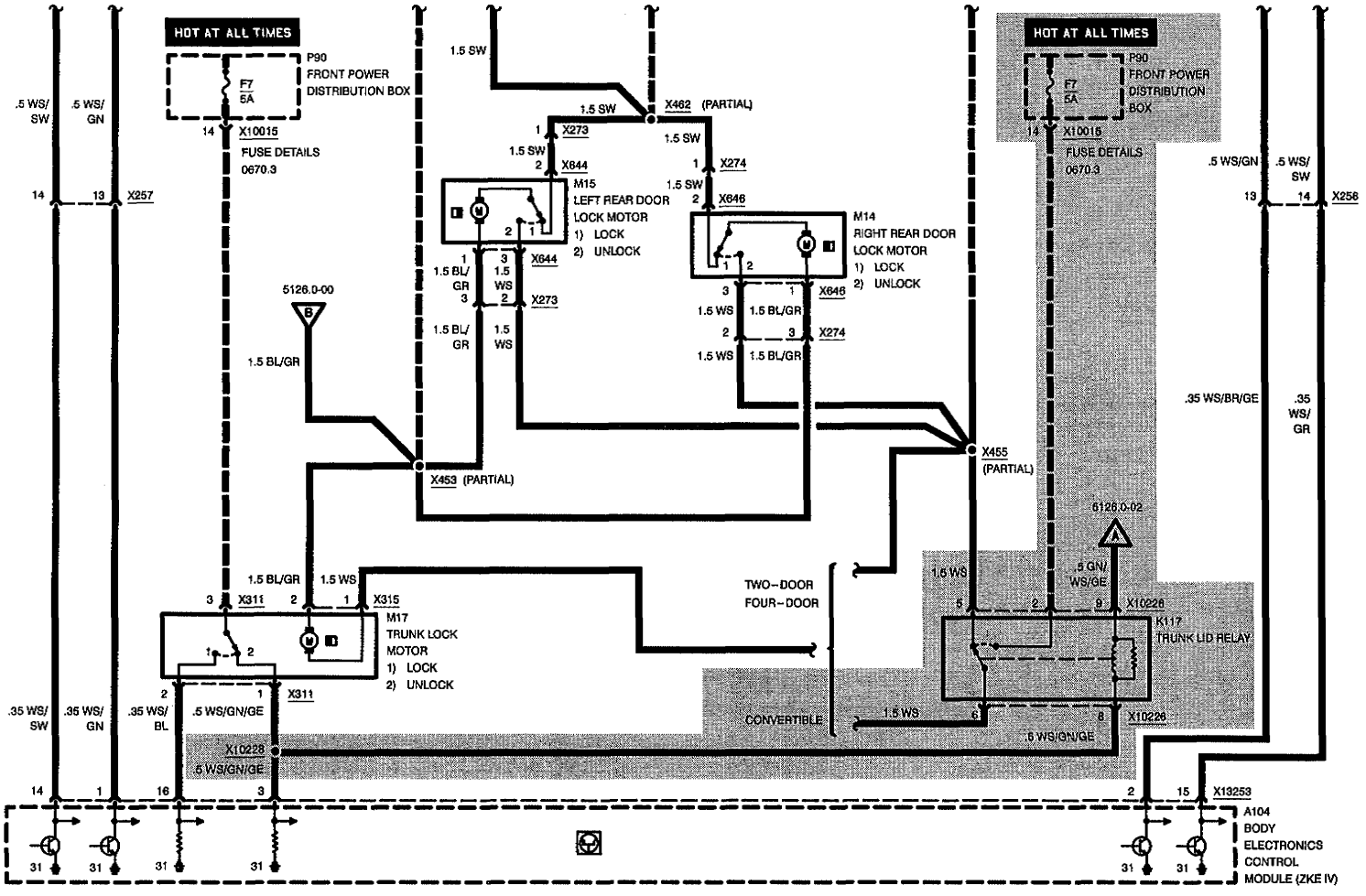
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ZKE CENTRAL LOCKING (ZV)

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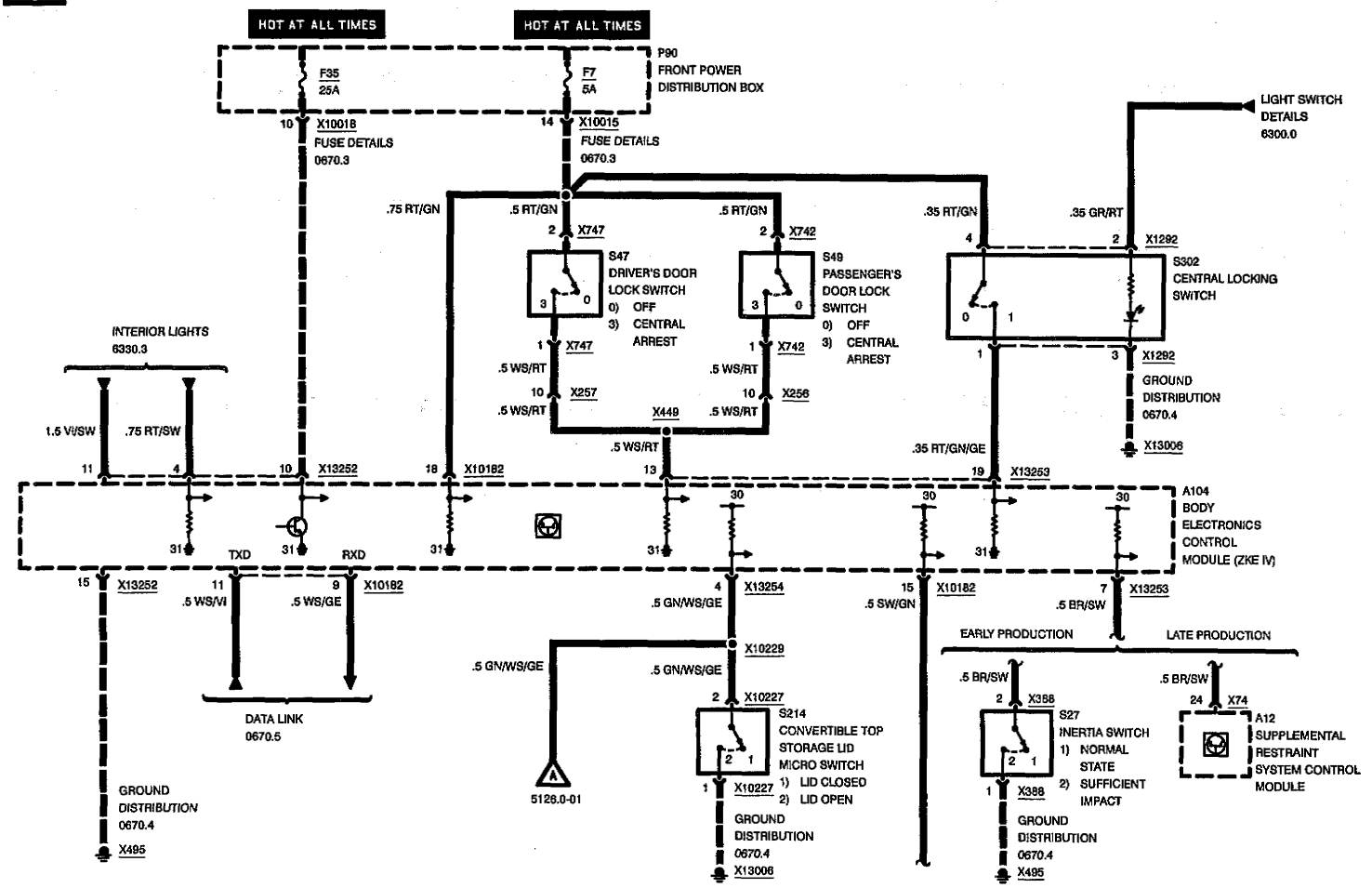


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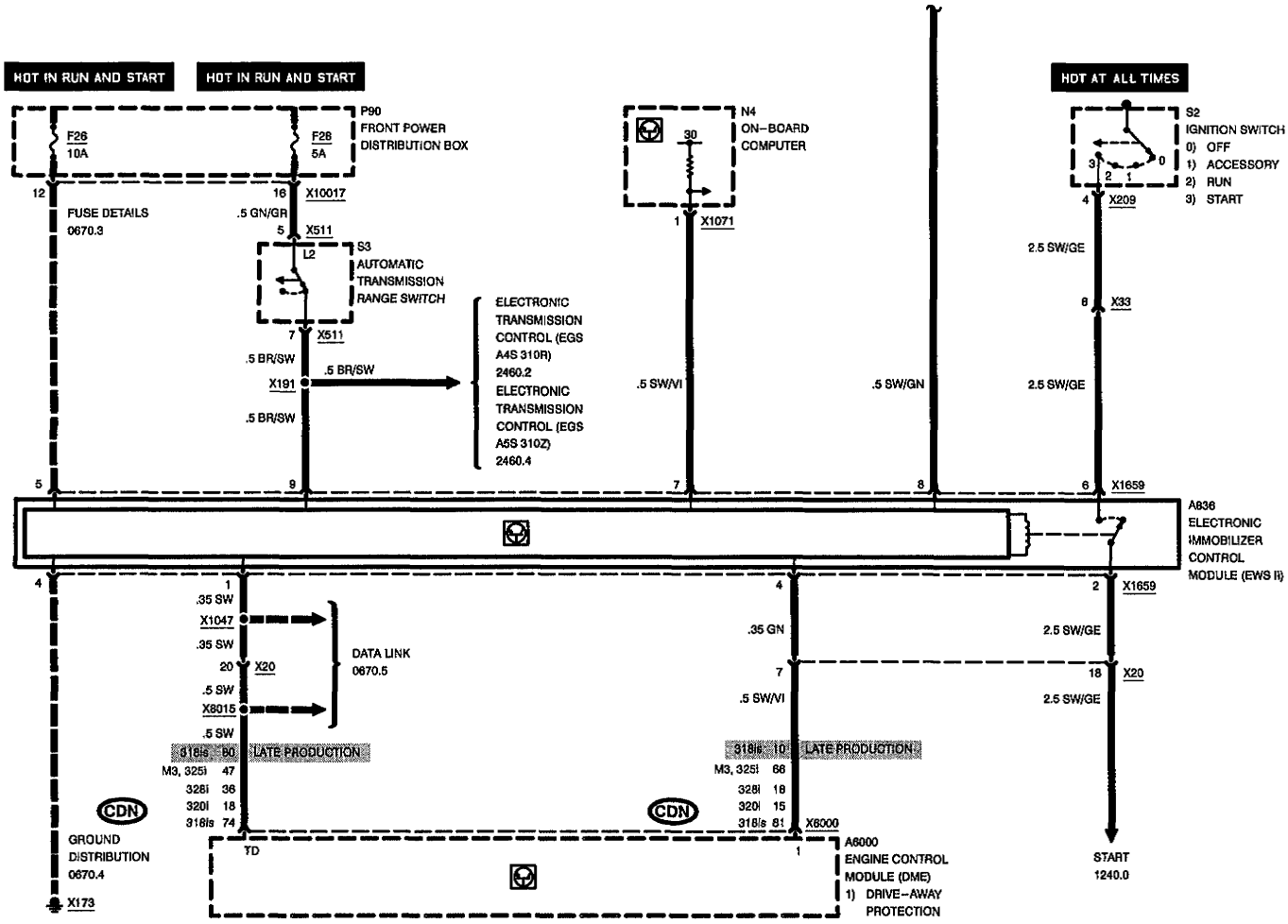


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ZKE CENTRAL LOCKING (ZV)



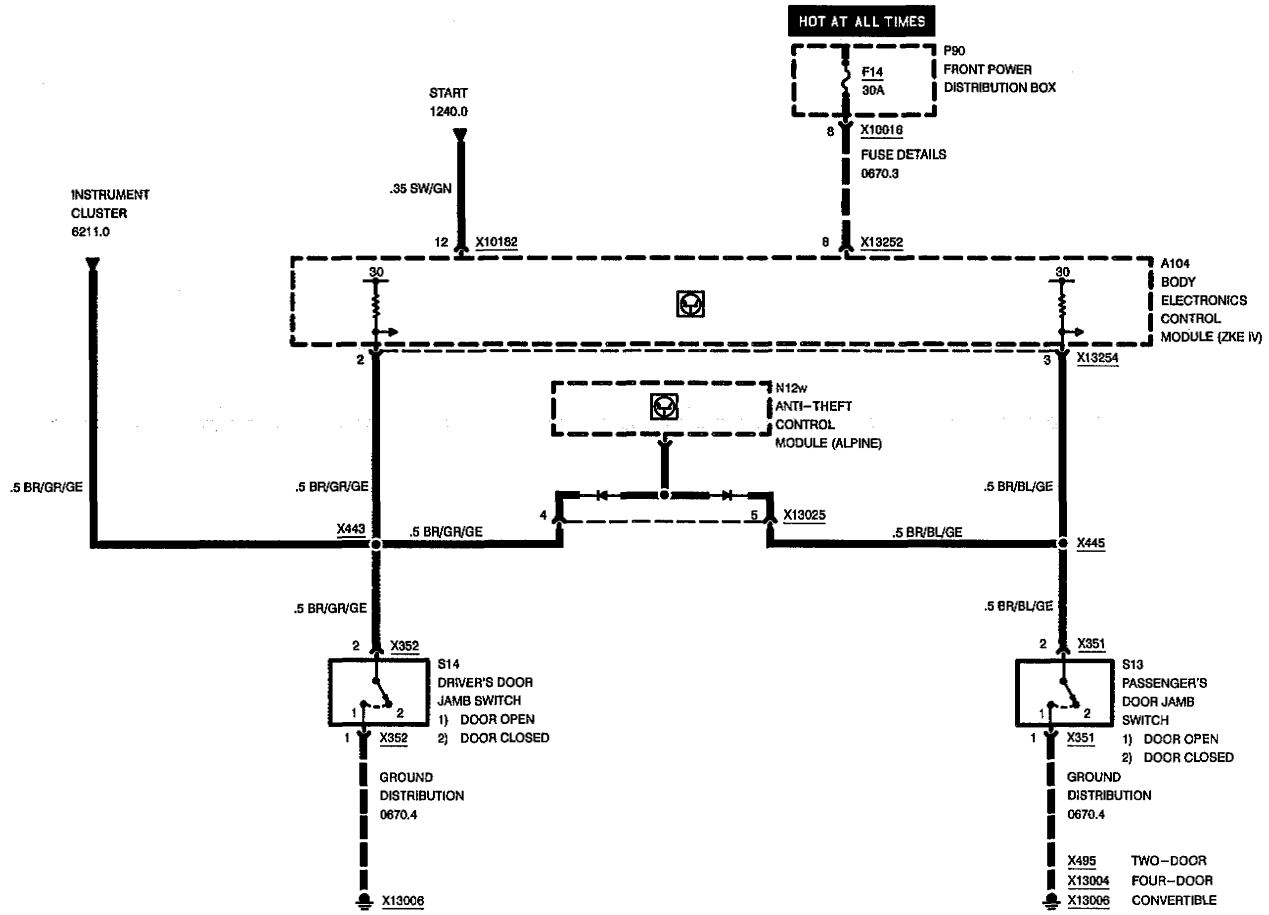
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POWER WINDOWS (FH)

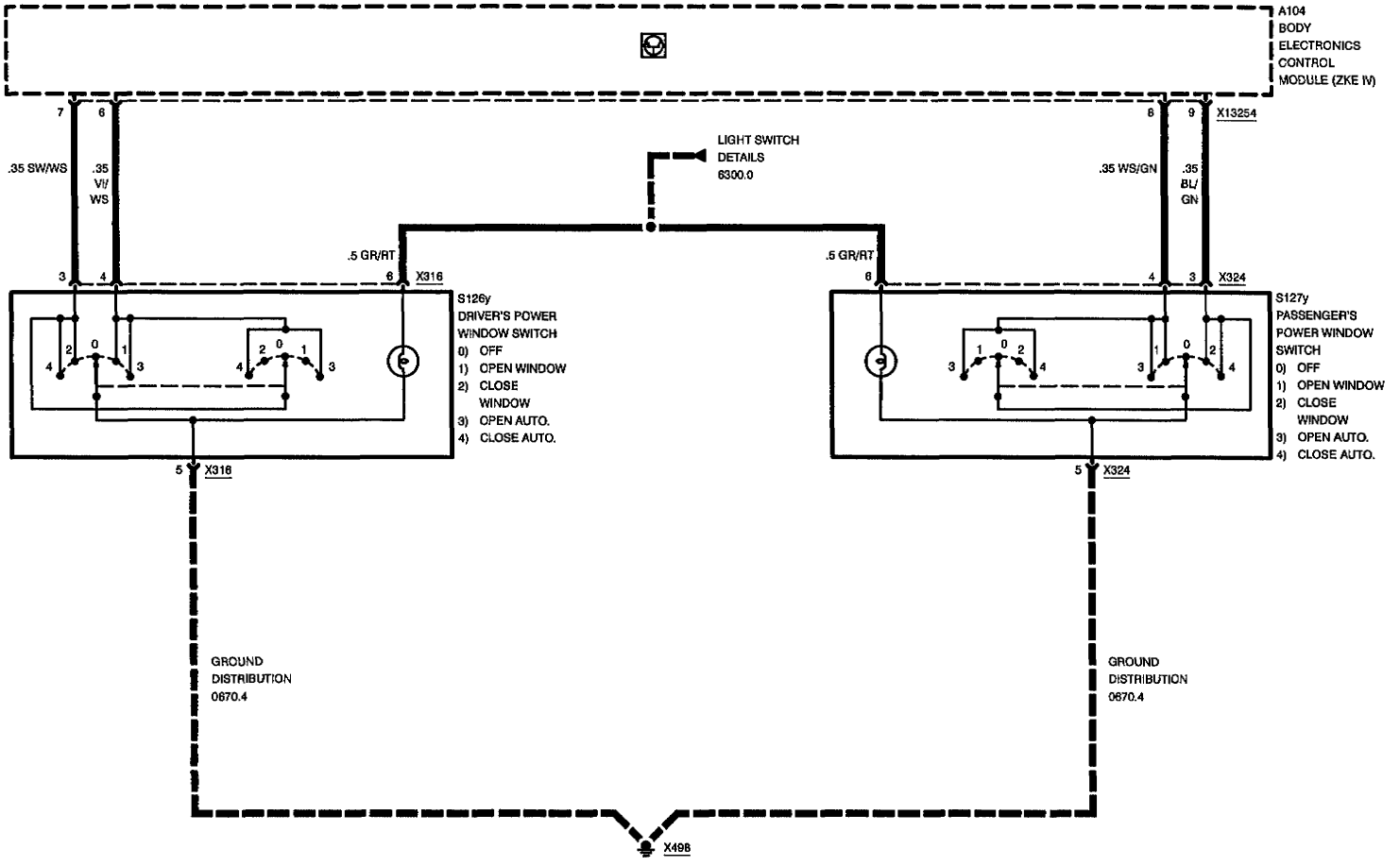
INPUT DETAILS



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POWER WINDOWS (FH)

INPUT DETAILS

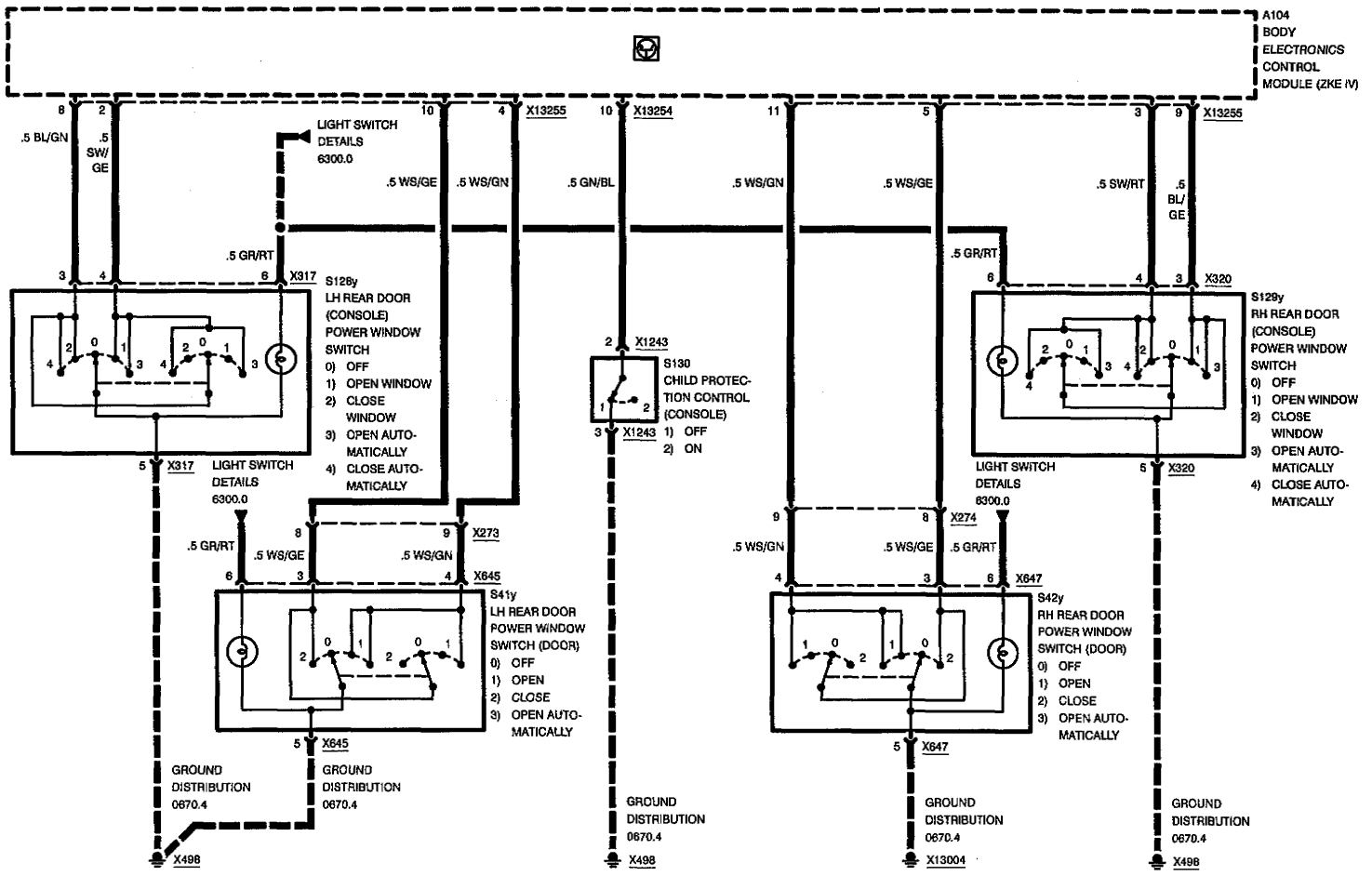


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POWER WINDOWS (FH)

INPUT DETAILS

FOUR-DOOR

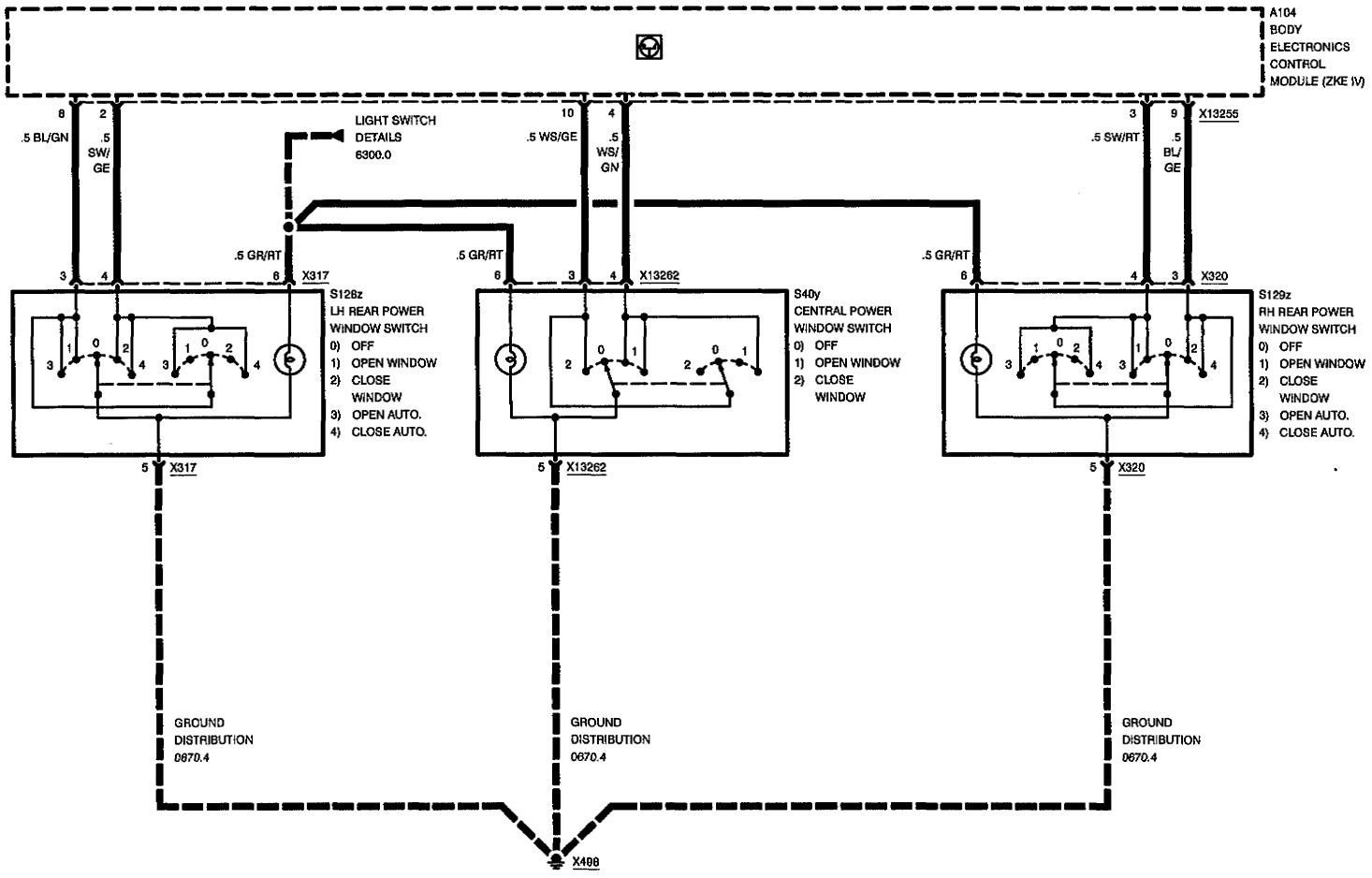


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POWER WINDOWS (FH)

CONVERTIBLE

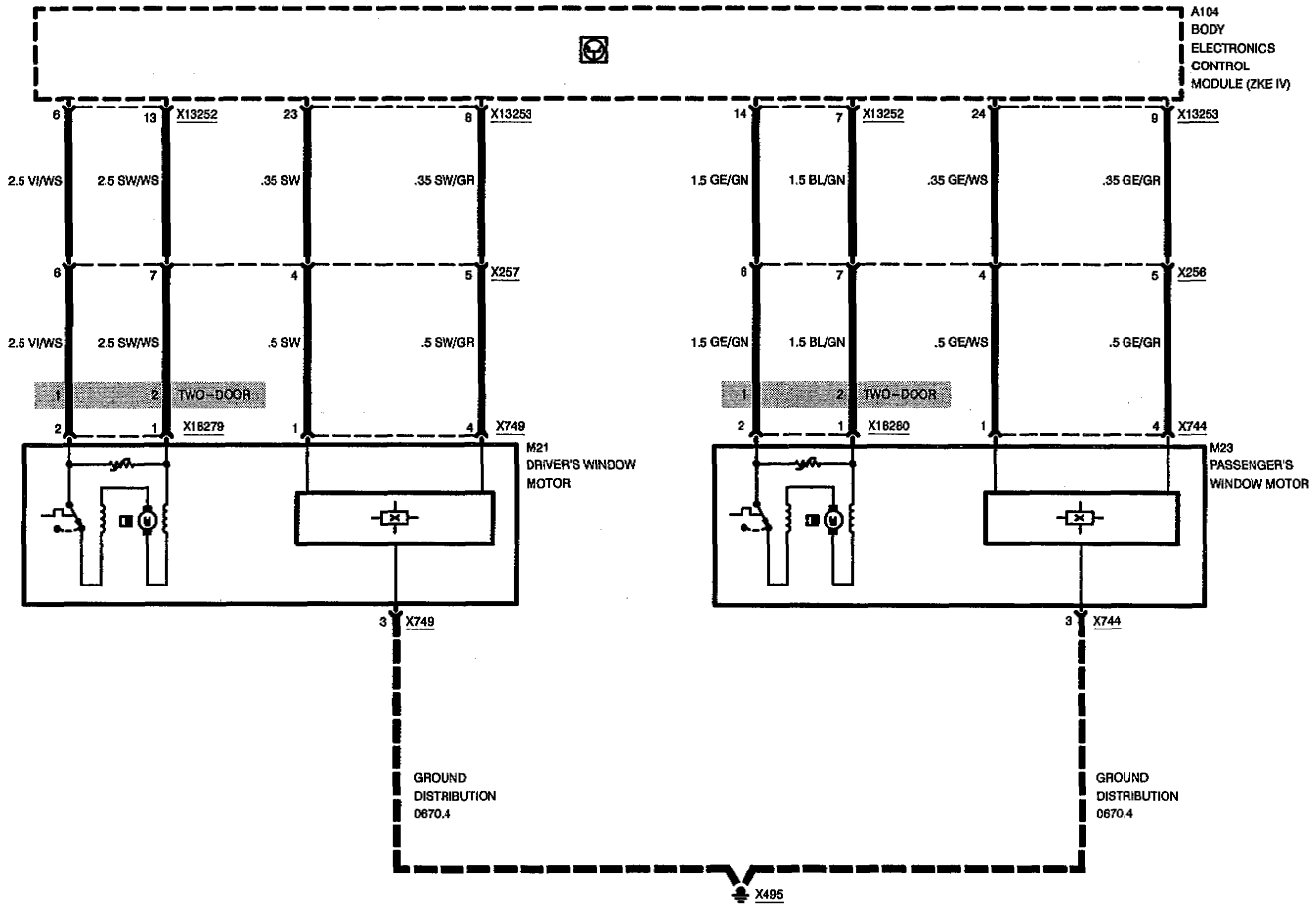
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POWER WINDOWS (FH)

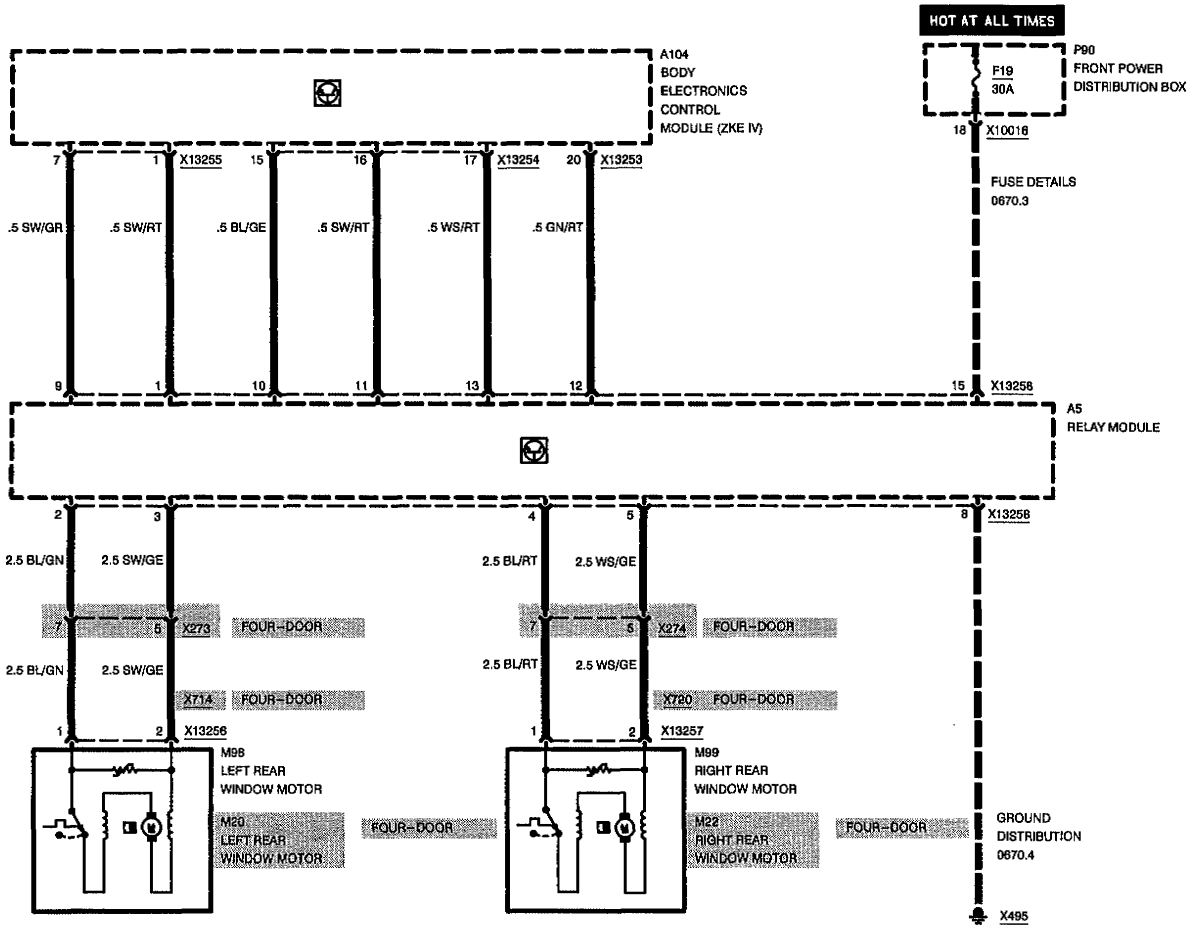
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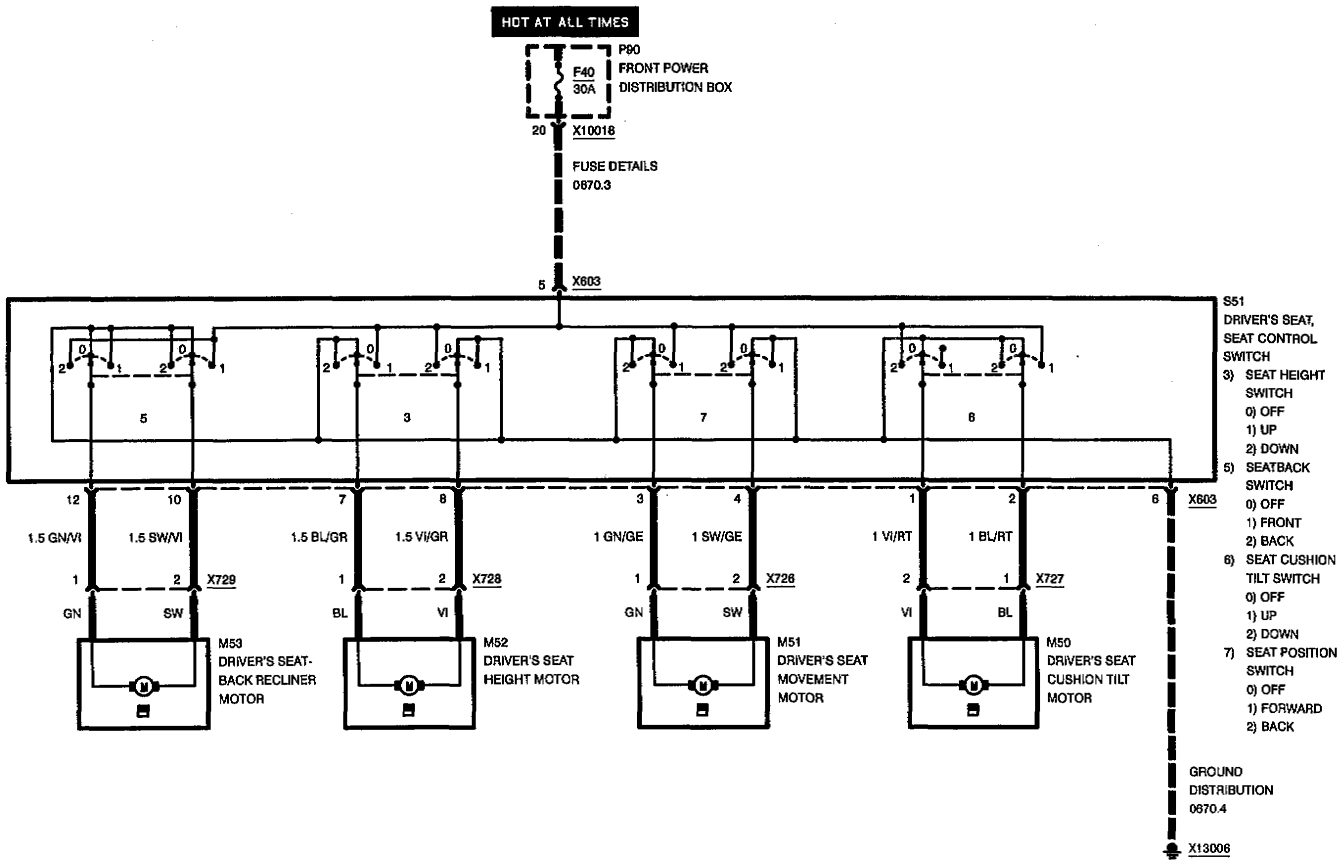
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POWER WINDOWS (FH)

OUTPUT DETAILS



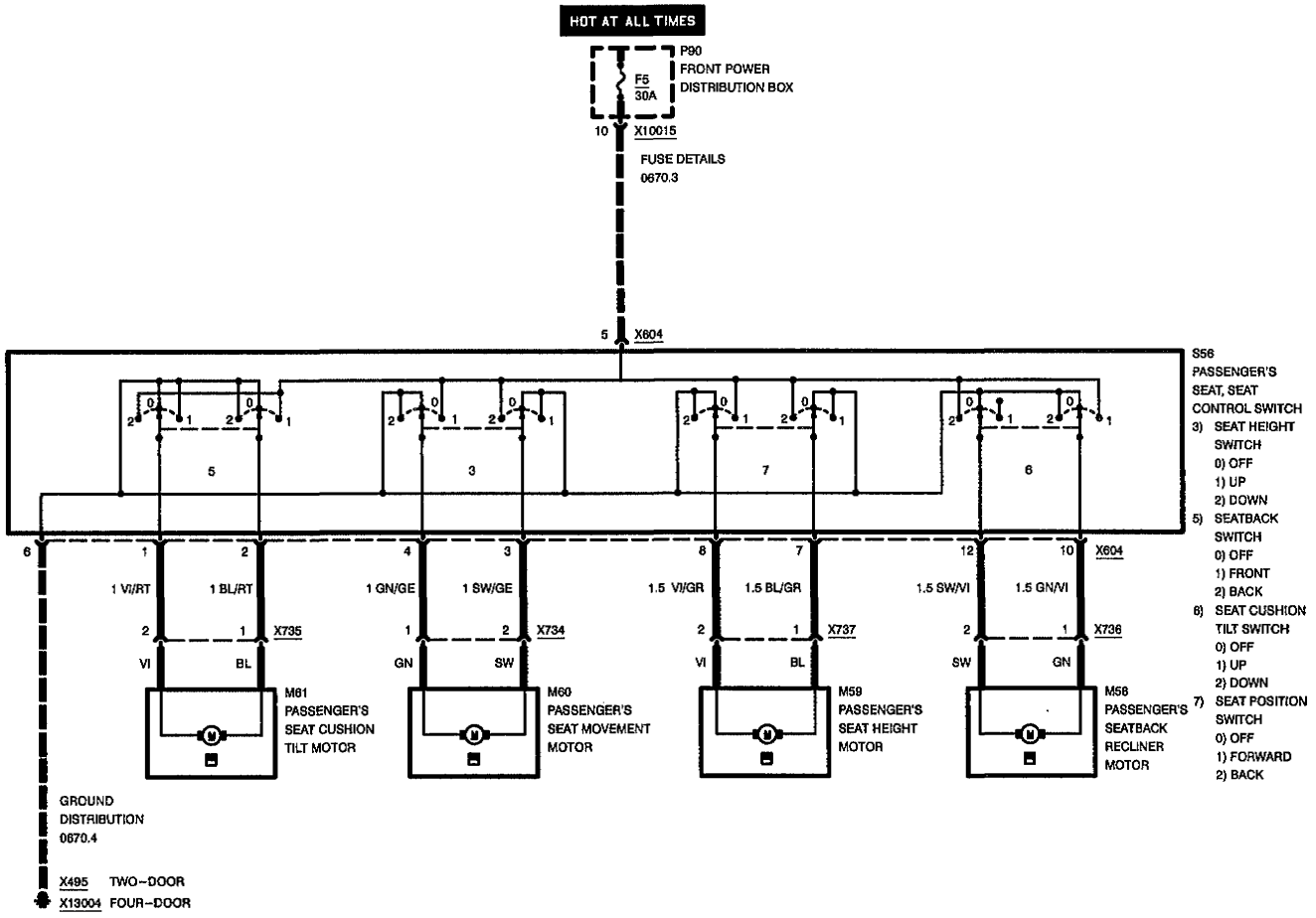
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POWER SEATS

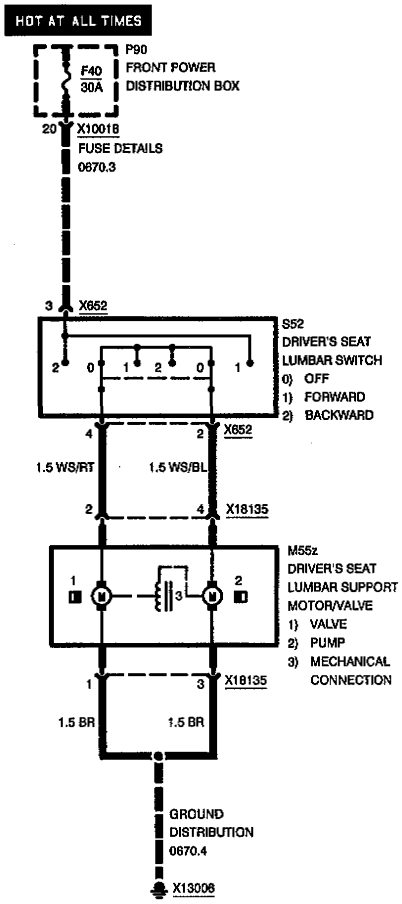
PASSENGER'S SEAT



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POWER SEATS AND LUMBAR SUPPORT

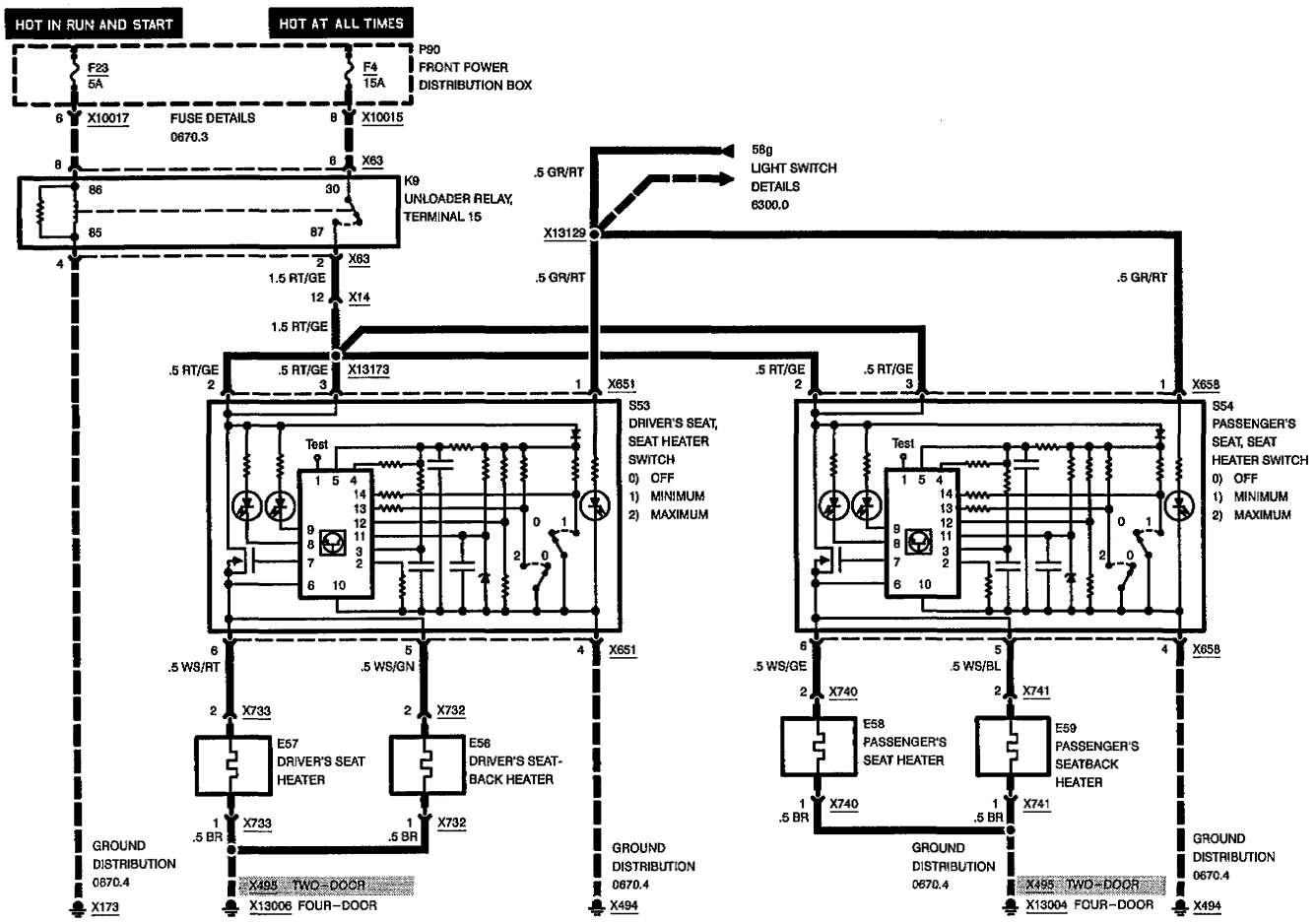
DRIVER'S SIDE – LUMBAR SUPPORT



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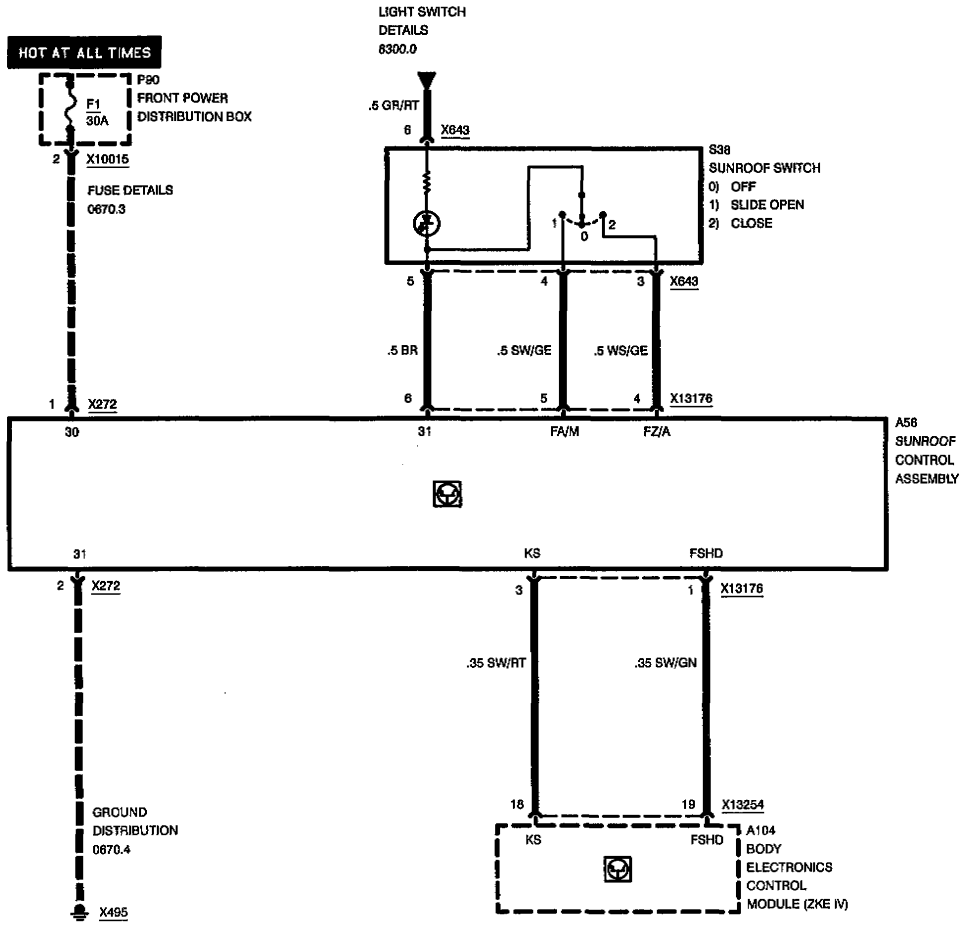
HEATED SEATS



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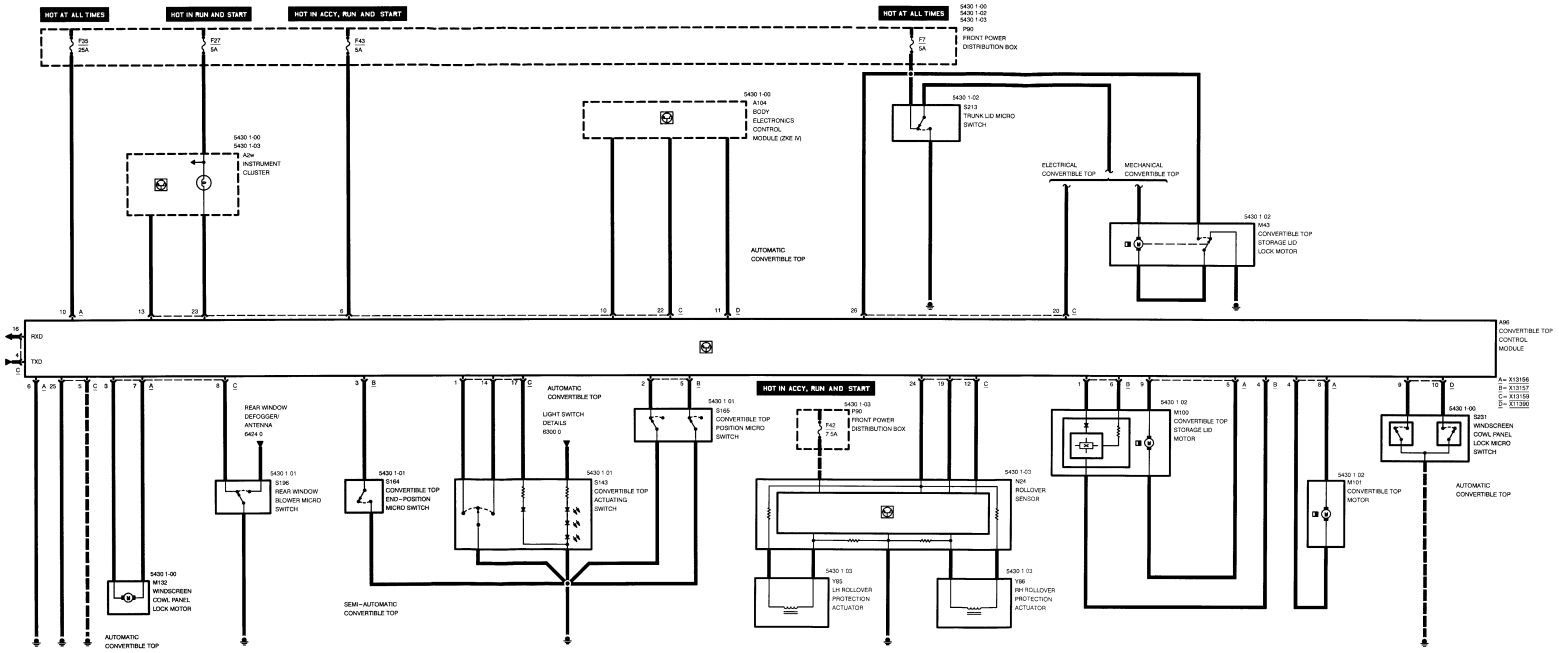
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POWER SUN ROOF (SHD)

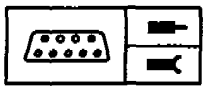


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04/97 — 5430 1 — 1996
04/97 — 5430 1 — 1996



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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

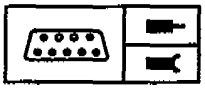
Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3	E/A	Activate engine (MVER R2)	Windscreen cowl panel locking (automatic convertible top)
4	E/A	Control signal	Convertible top motor
5	E/A	Control signal	Convertible top storage lid motor
6	M	Ground	Ground
7	E/A	Activate engine (MVER R2)	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	Front power distribution box

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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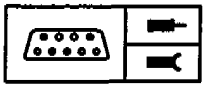
Pin Assignments

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	A	Data signal	Roll over sensor
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	A	Data signal	Roll over sensor
20	E	Trunk lid signal	Trunk lid micro switch
21		Not used	
22	A	Data signal	Body electronics control module
23	A	Roll over signal	Instrument cluster
24	A	Data signal	Roll over sensor
25	M	Ground	Ground
26	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

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Pin Assignments

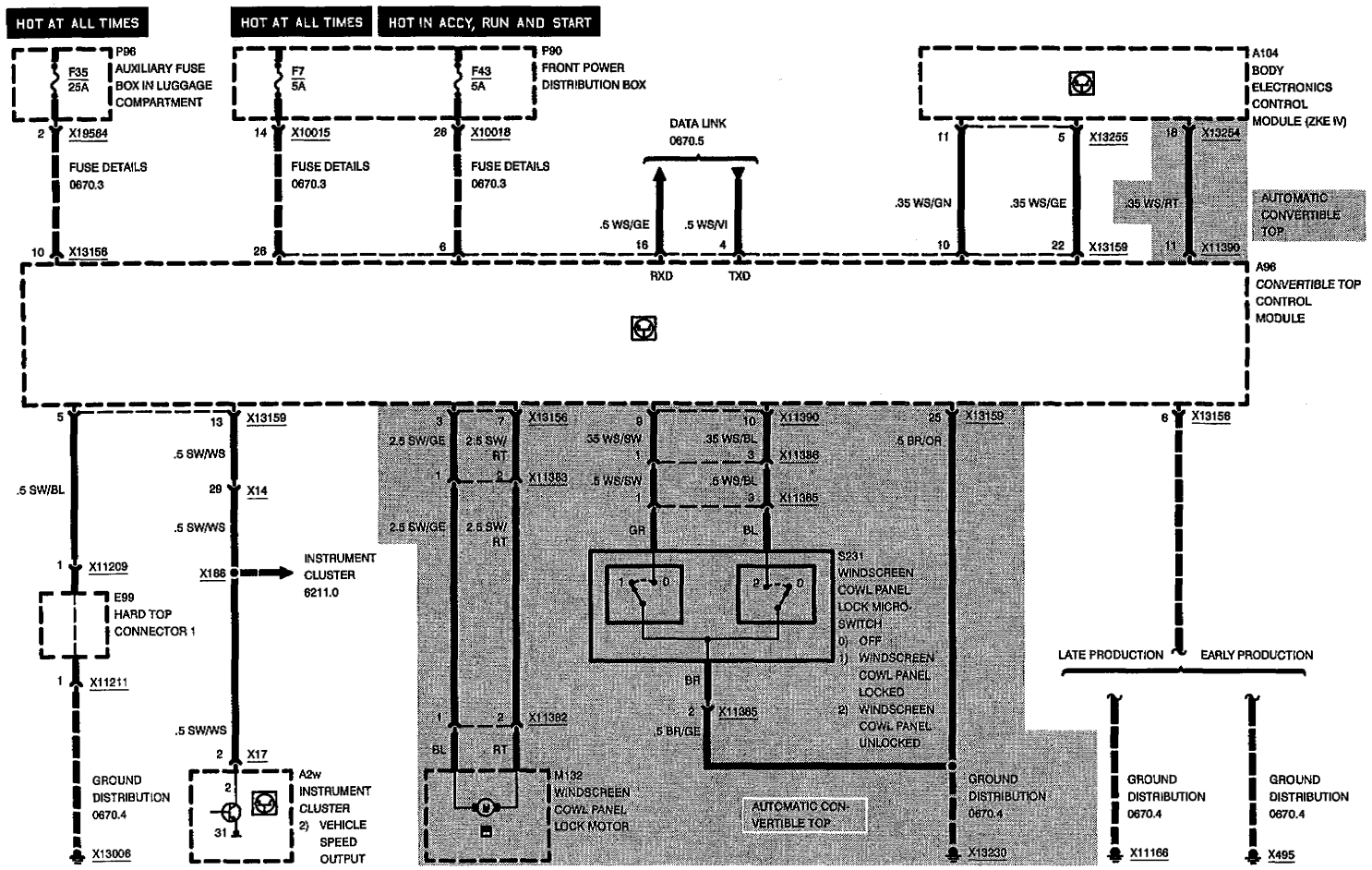
X11390

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	ML VER	Windscreen cowl panel lock microswitch (automatic convertible top)
10	E/A	ML UNLOCKED	Windscreen cowl panel UNLOCKED (automatic convertible top)
11	E/A	ML KOSCHL	Body electronics control module (ZKE IV) (automatic convertible top)
12		Not used	

E = Input, A = Output, M = Ground

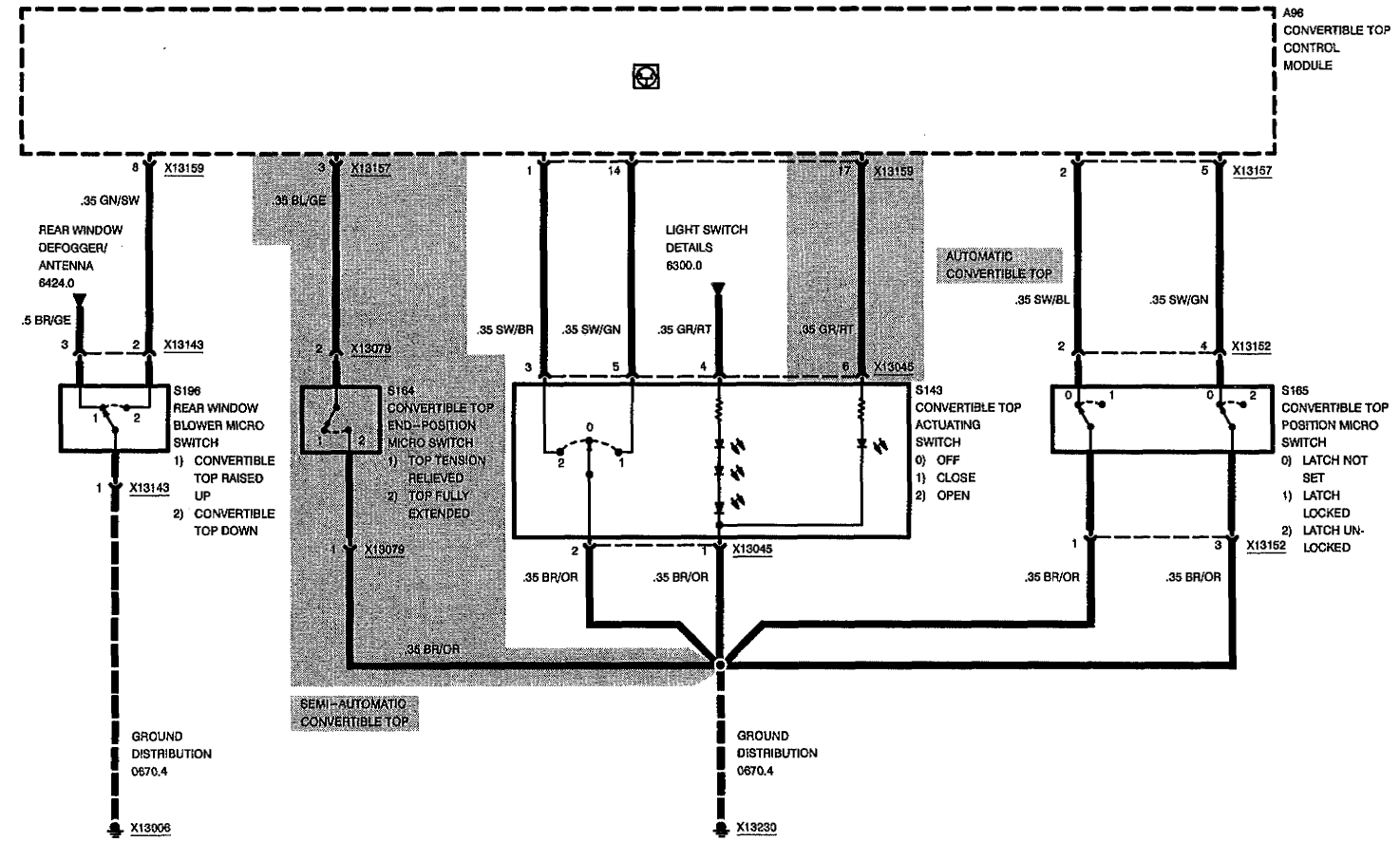
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ELECTRICAL CONVERTIBLE TOP



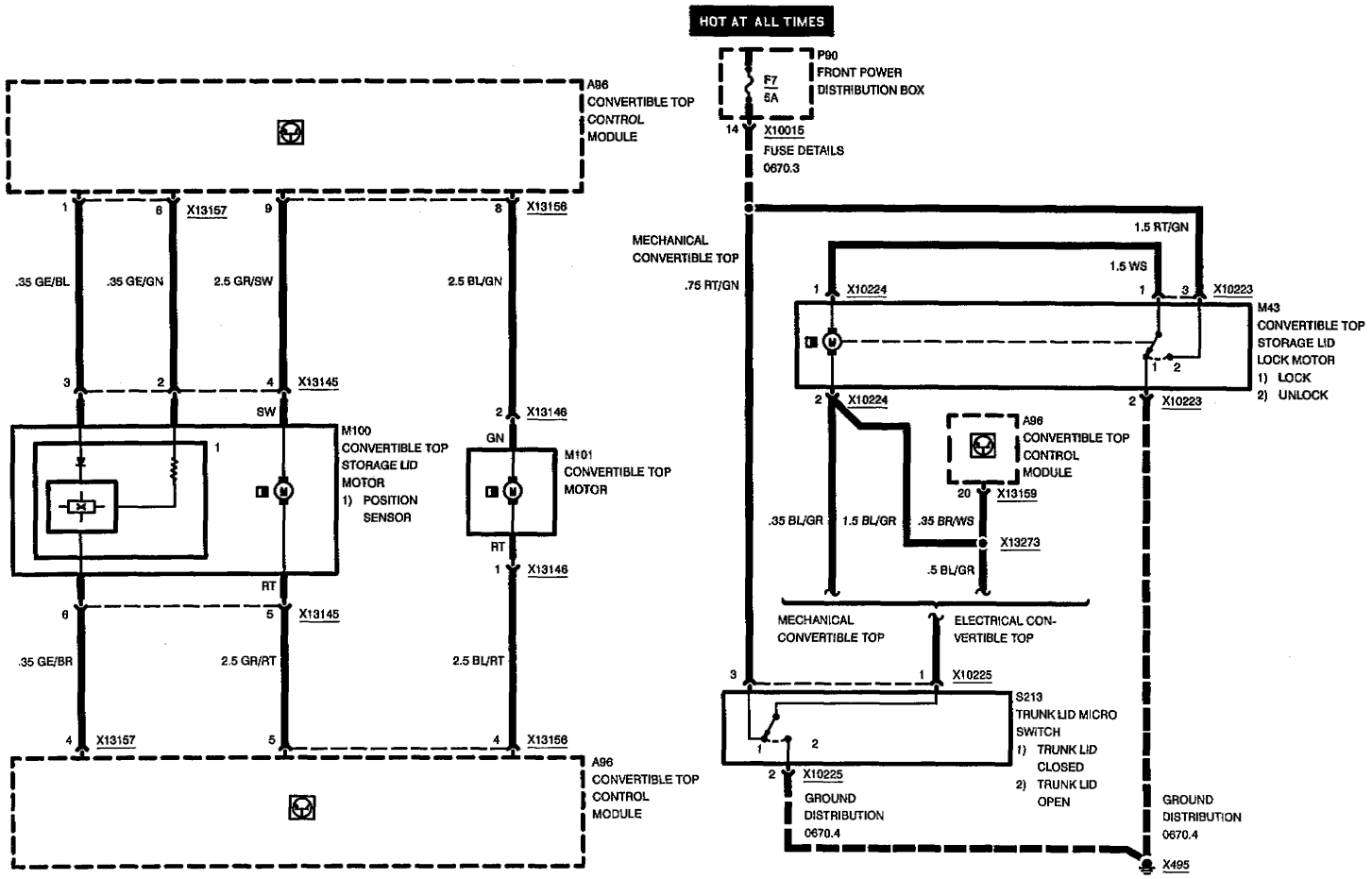
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ELECTRICAL CONVERTIBLE TOP



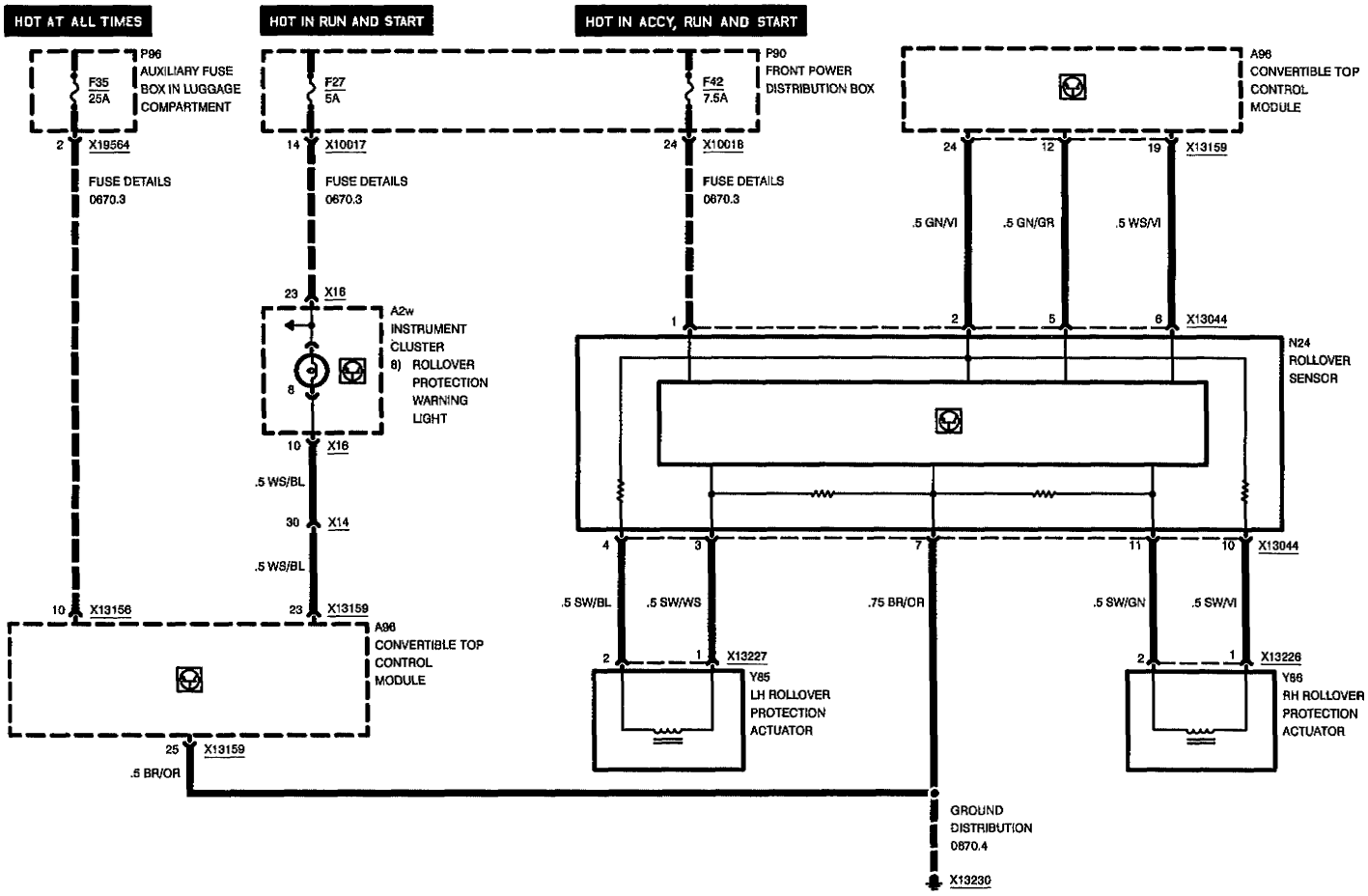
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ELECTRICAL CONVERTIBLE TOP



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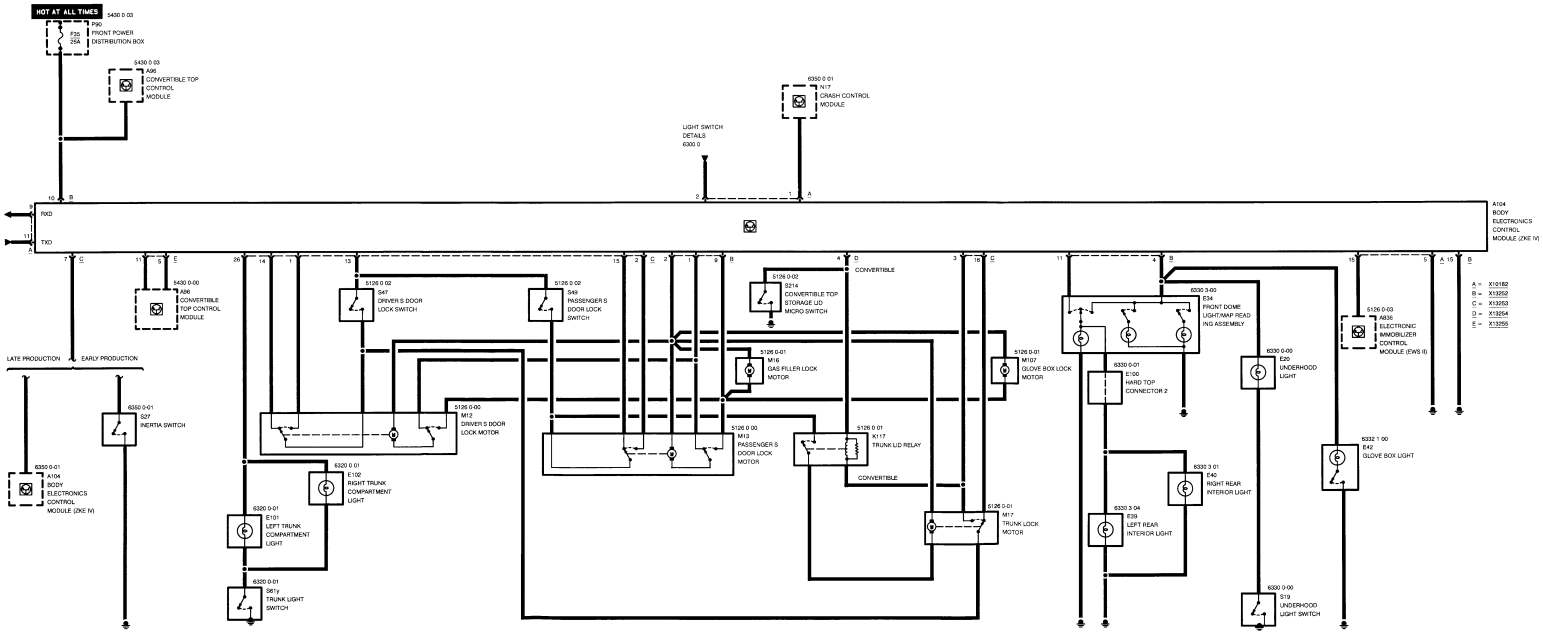
ELECTRICAL CONVERTIBLE TOP



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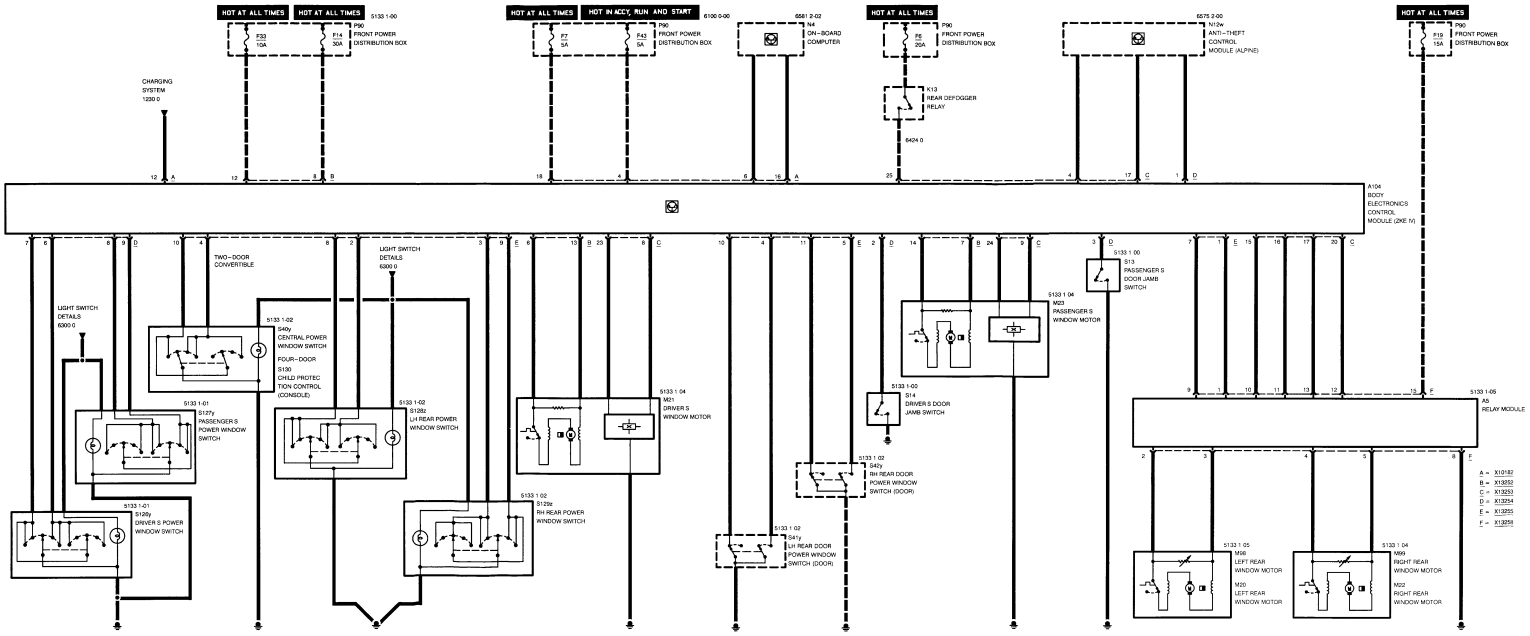
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04/97 6100 0a 1996
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Pin Assignments

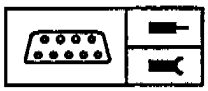
A = X10182	18 Pins, black
B = X13252	15 Pins, black
C = X13253	26 Pins, yellow
D = X13254	26 Pins, green
E = X13255	26 Pins, nature
F = X13258	15 Pins, white

X10182

Pin	Type	Description/Function	Connection
1	E	Crash signal	Crash control unit
2	E	Light signal	Light switch
3		Not used	
4	E	Power supply	Front power distribution box
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	Terminal 50	Starter
13		Not used	
14		Not used	
15	A	Drive away protection	Electronic immobilizer control module (EWS II)
16	A	Data signal	On Board computer
17	E	Hood/radio signal	Hood/radio micro switches
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		Not used	
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
9	E	Lock signal	Lock motor & trunk lid relay
10	E	Power supply	Front power distribution box
11	A	Voltage supply	Interior lights, engine compartment light, glove box light
12	E	Power supply	Front power distribution box
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 trunk lid	Trunk lid lock motor, trunk 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
10		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
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 trunk lid	Trunk 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		Rear defogger signal	Rear defogger relay
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 trunk lid signal Four-door door-signal	Trunk lid switch/trunk lid relay Door jump switch left rear
5	E	Door signal	Door jump switch right rear
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
11		Not used	

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
12		Not used	
13		Not used	
14	E	Trunk lid signal	Trunk lid switch
15	A	DATA signal	Relay module
16	A	DATA signal	Relay module
17	A	DATA signal	Relay module
18	A	Convertible DATA signal	Convertible top control module
19	A	Four-door CORRECT signal	Comfort relay
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	Power window switch left rear
3	E	OPEN signal	Power window switch right rear
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	Power window switch left rear
9	E	CLOSE signal	Power window switch right rear
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

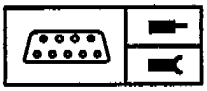
Pin	Type	Description/Function	Connection
11	E	Convertible DATA signal Four-door OPEN signal	Convertible top control module Passenger's window switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
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)	Power window motor right rear
3	E	Signal	Power window motor right rear
4	E	Signal	Power window motor left rear
5	A	Voltage supply (motor)	Power window motor left rear
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

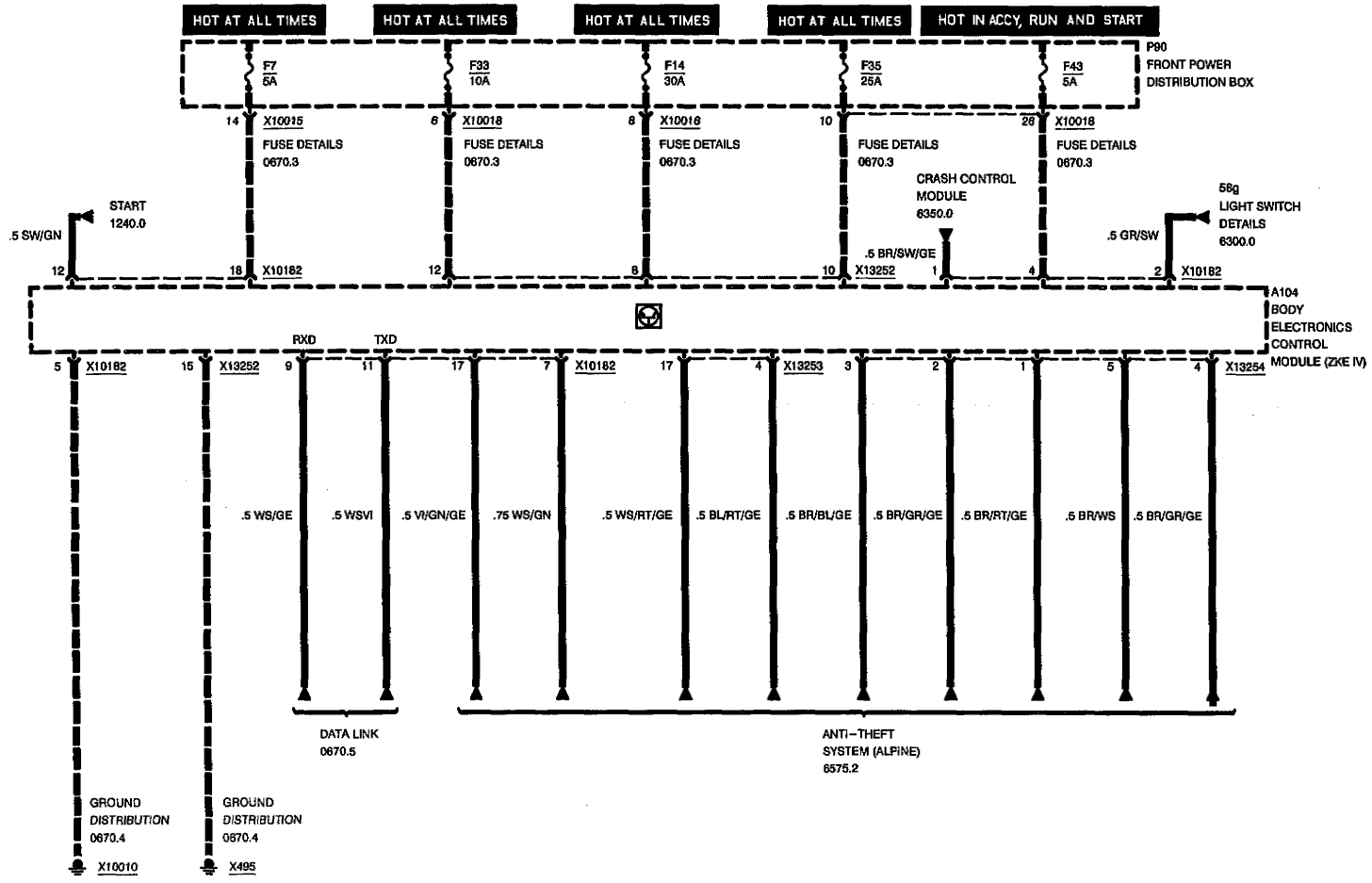
Pin	Type	Description/Function	Connection
12	E	DATA signal	Central body electronic module
13	E/A	DATA signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

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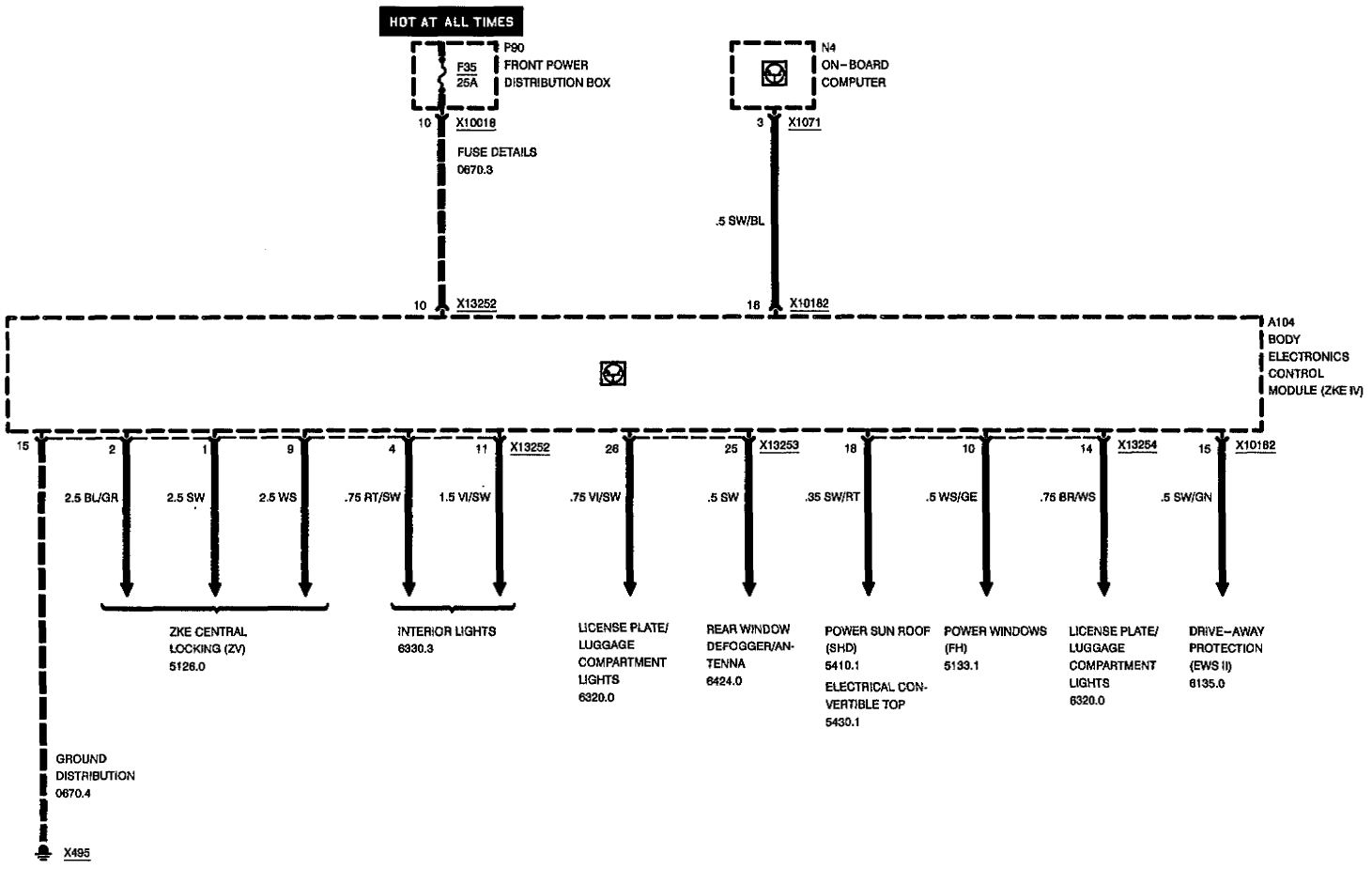
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CENTRAL BODY ELECTRONICS (ZKE IV)



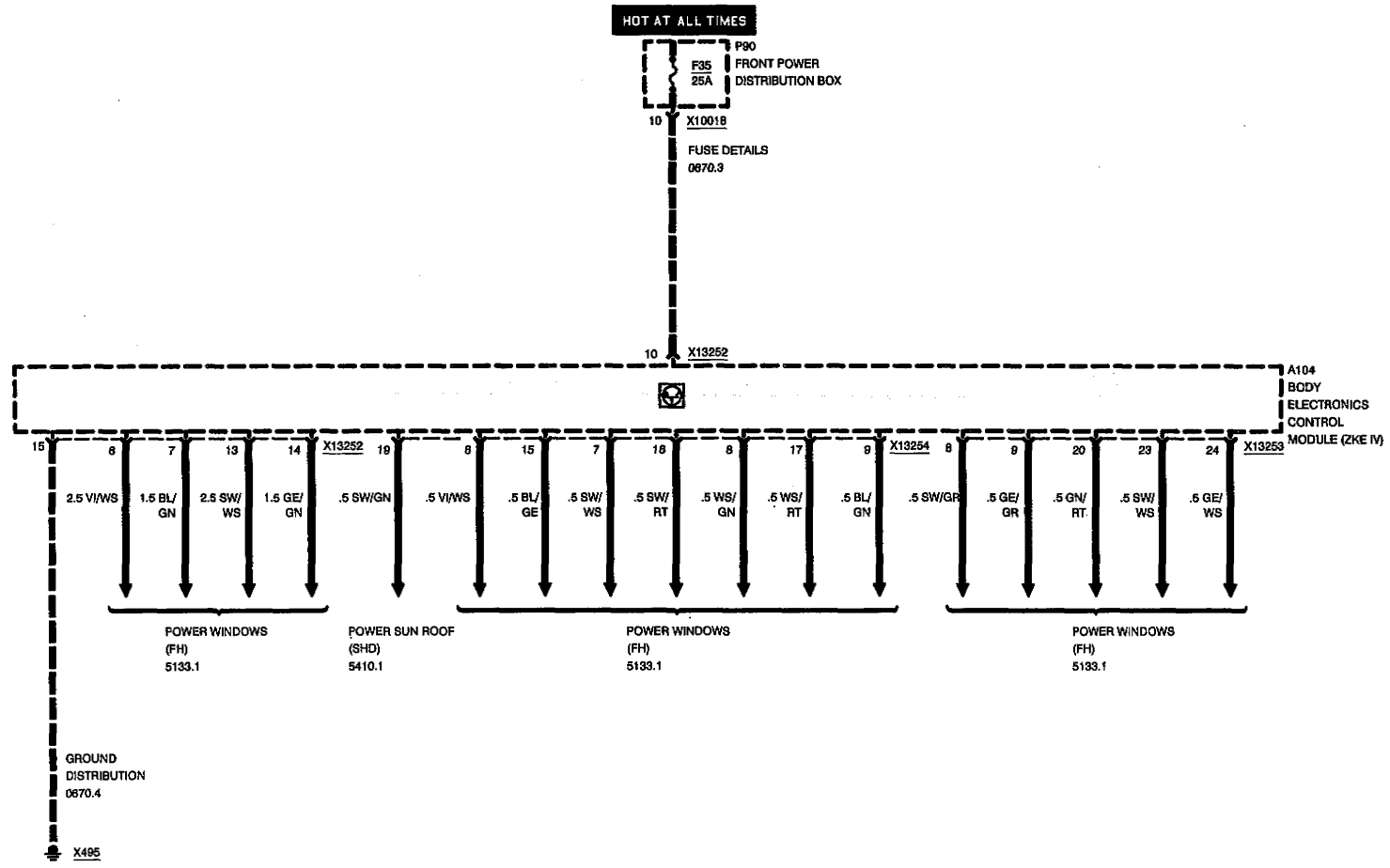
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CENTRAL BODY ELECTRONICS (ZKE IV)



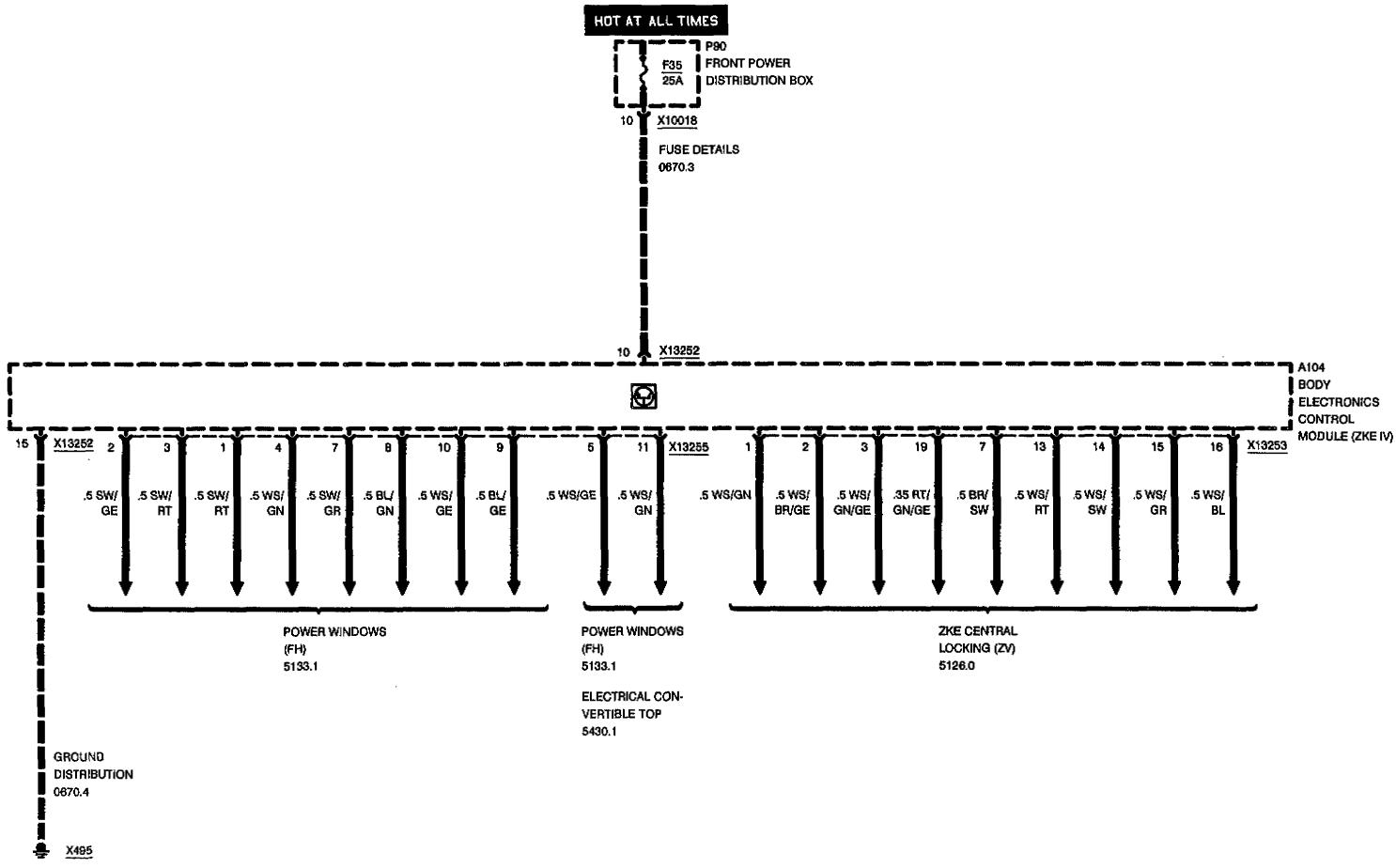
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CENTRAL BODY ELECTRONICS (ZKE IV)

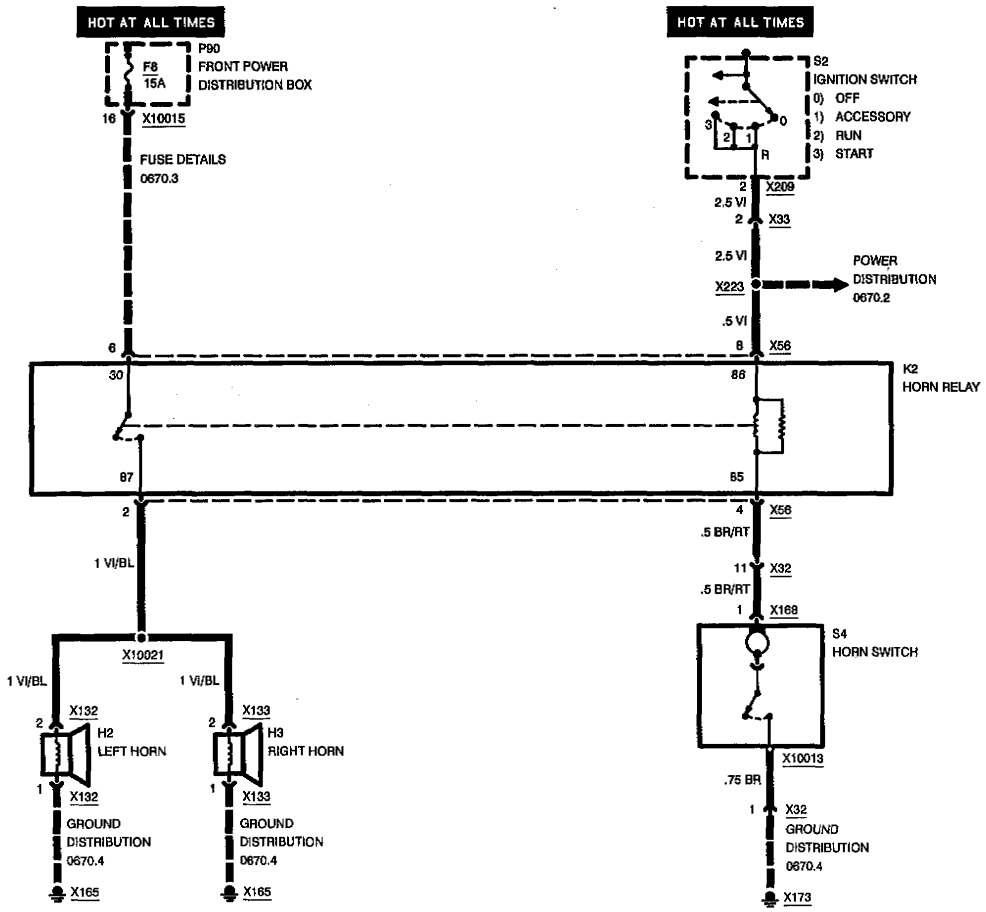


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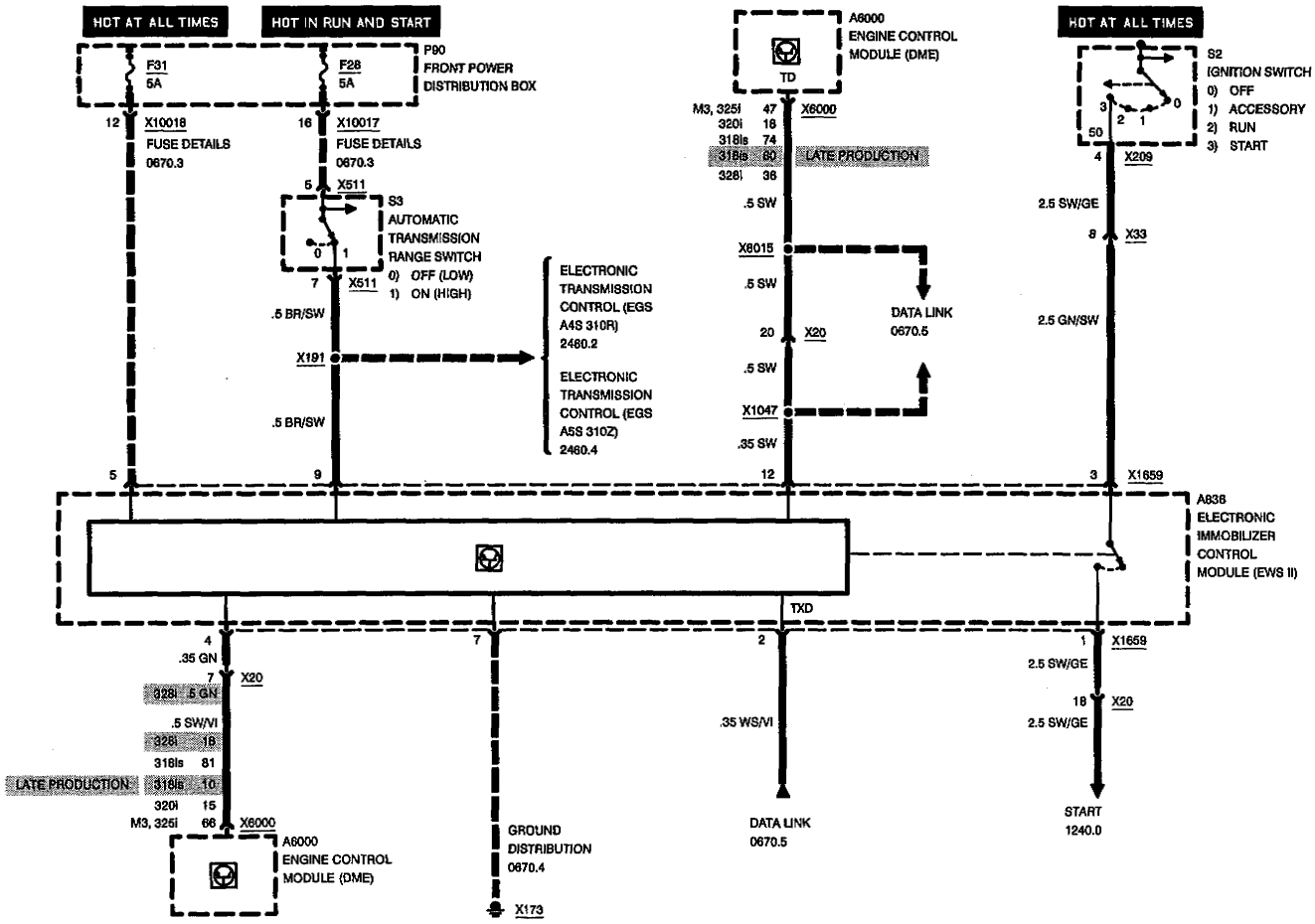
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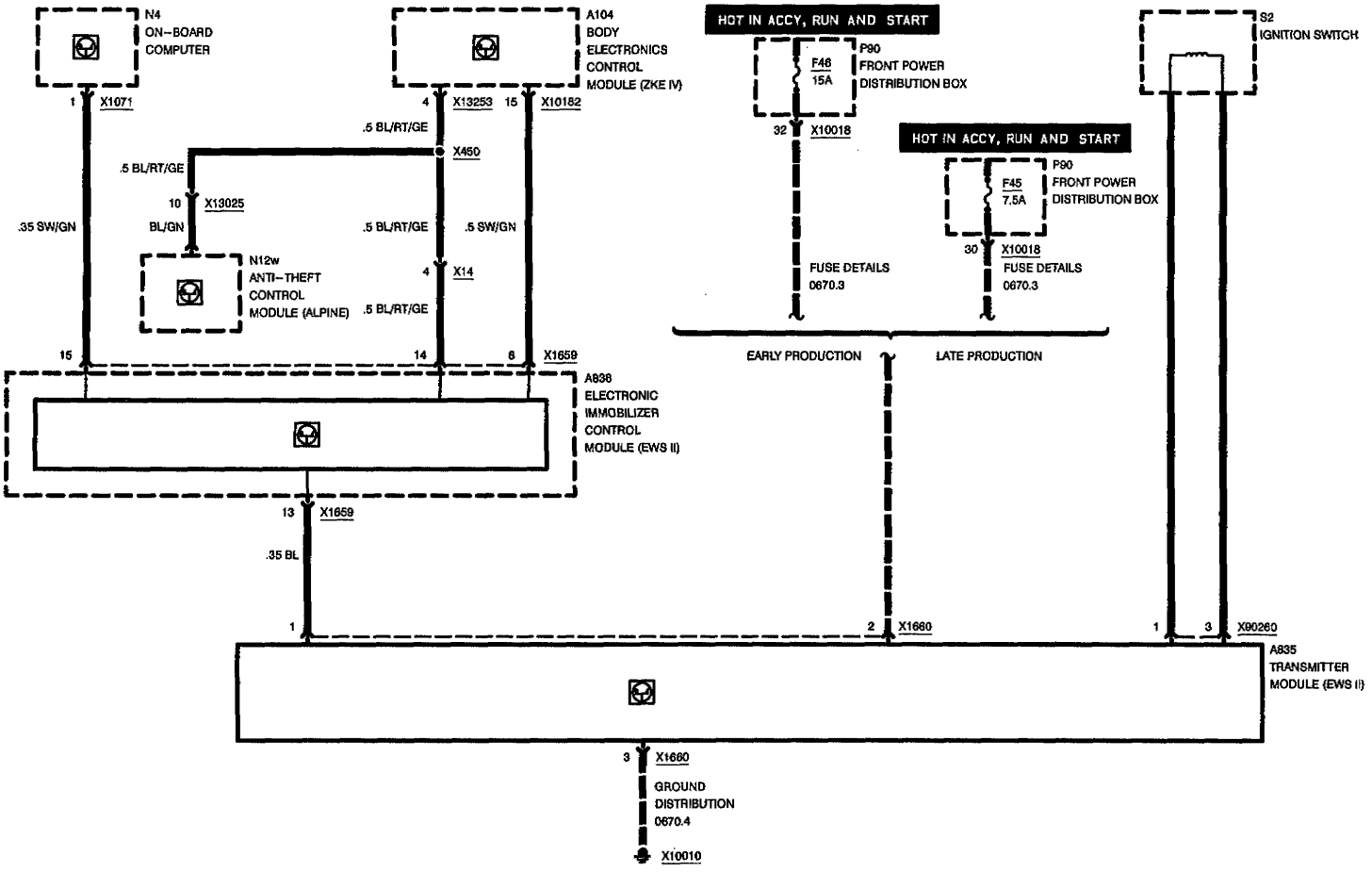
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DRIVE–AWAY PROTECTION (EWS II)



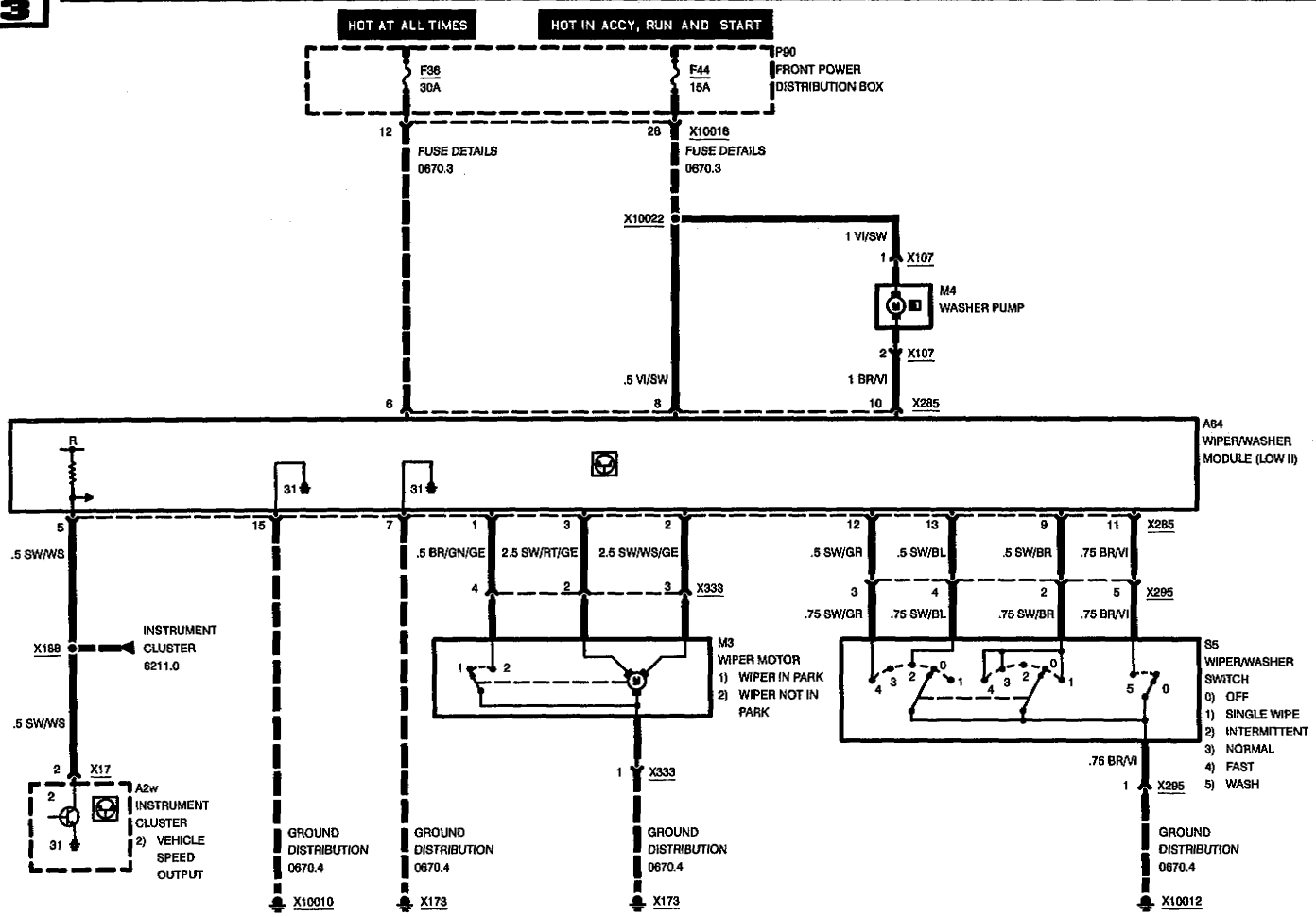
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DRIVE–AWAY PROTECTION (EWS II)



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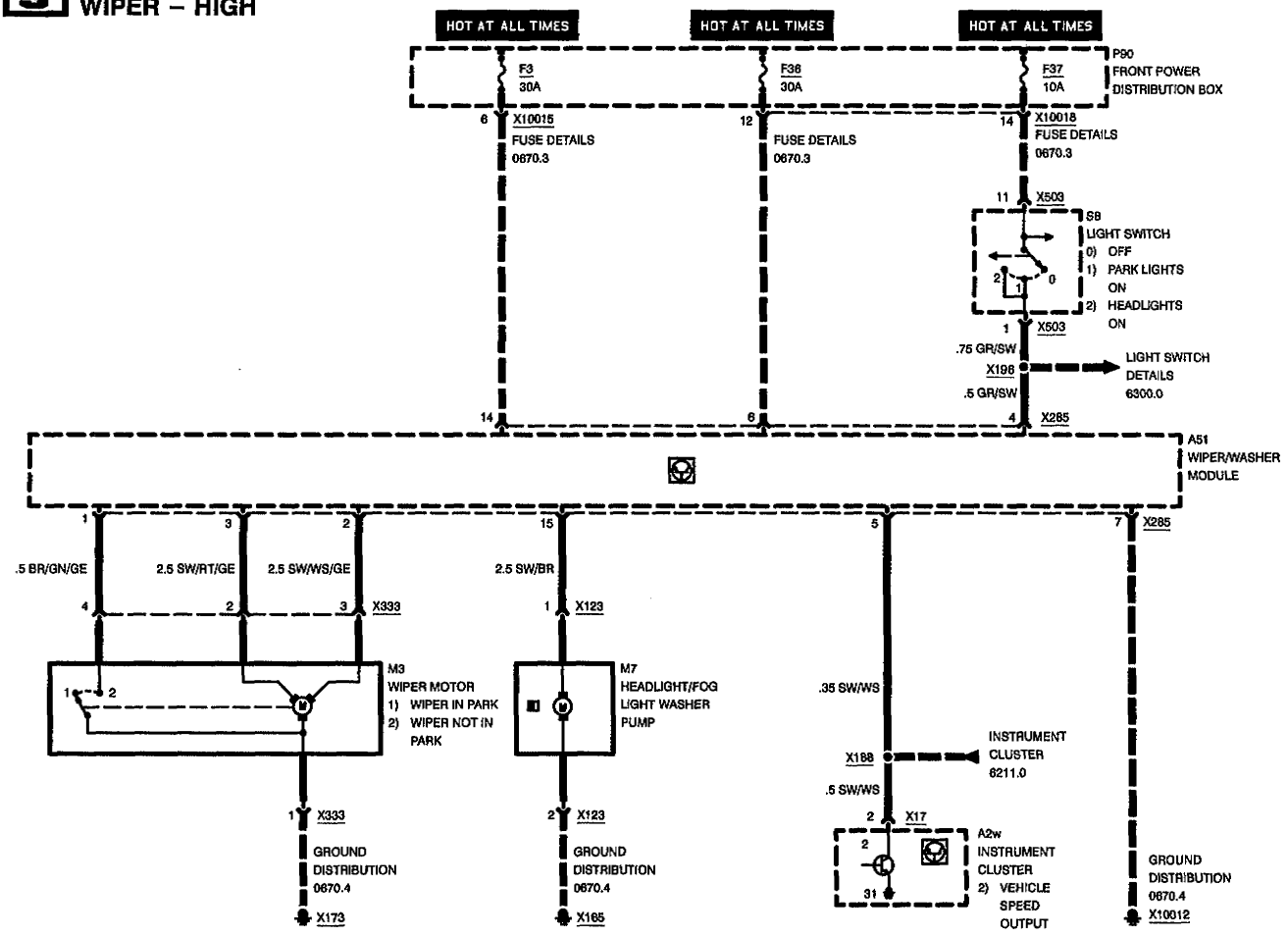
WIPER/WASHER MODULE (WWM)



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WIPER/WASHER MODULE (WWM)

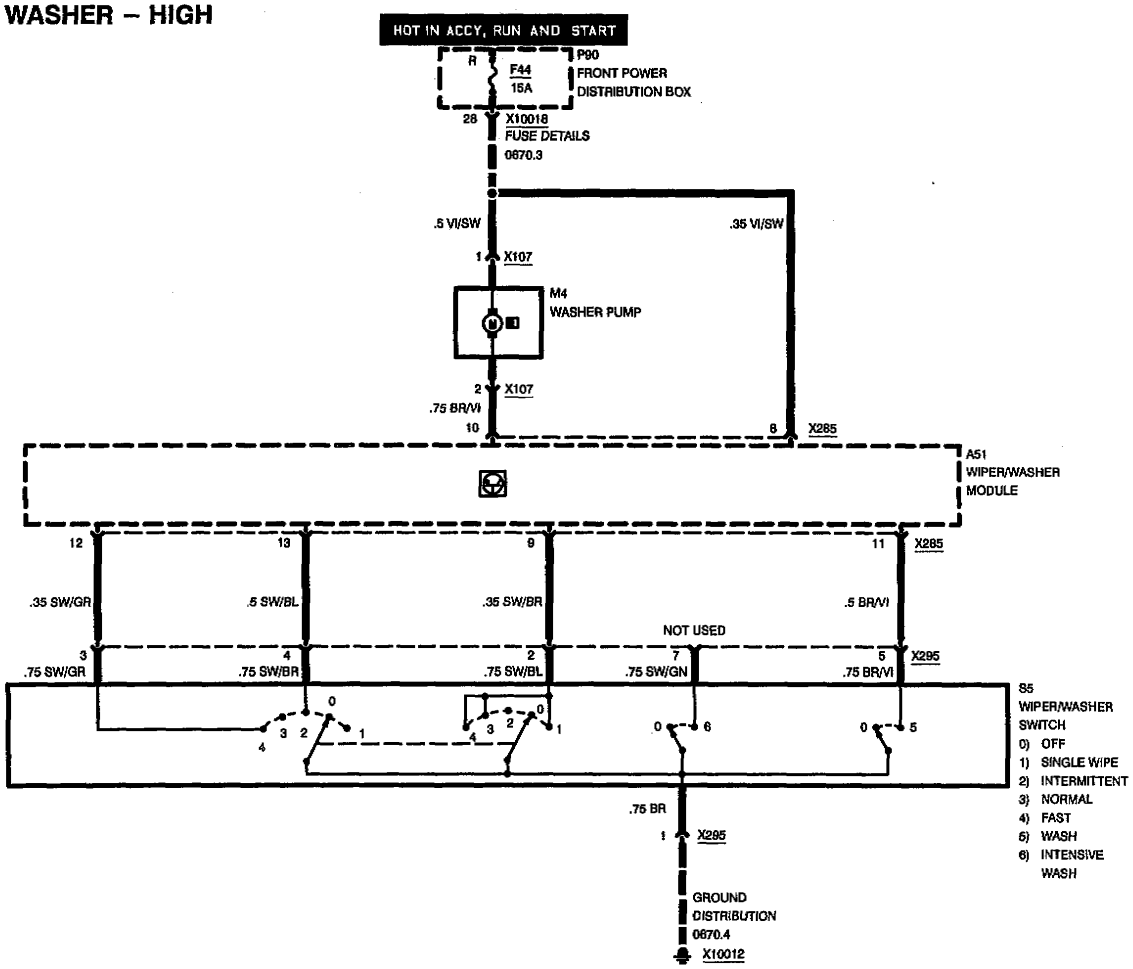
WIPER – HIGH



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WIPER/WASHER MODULE (WWM)

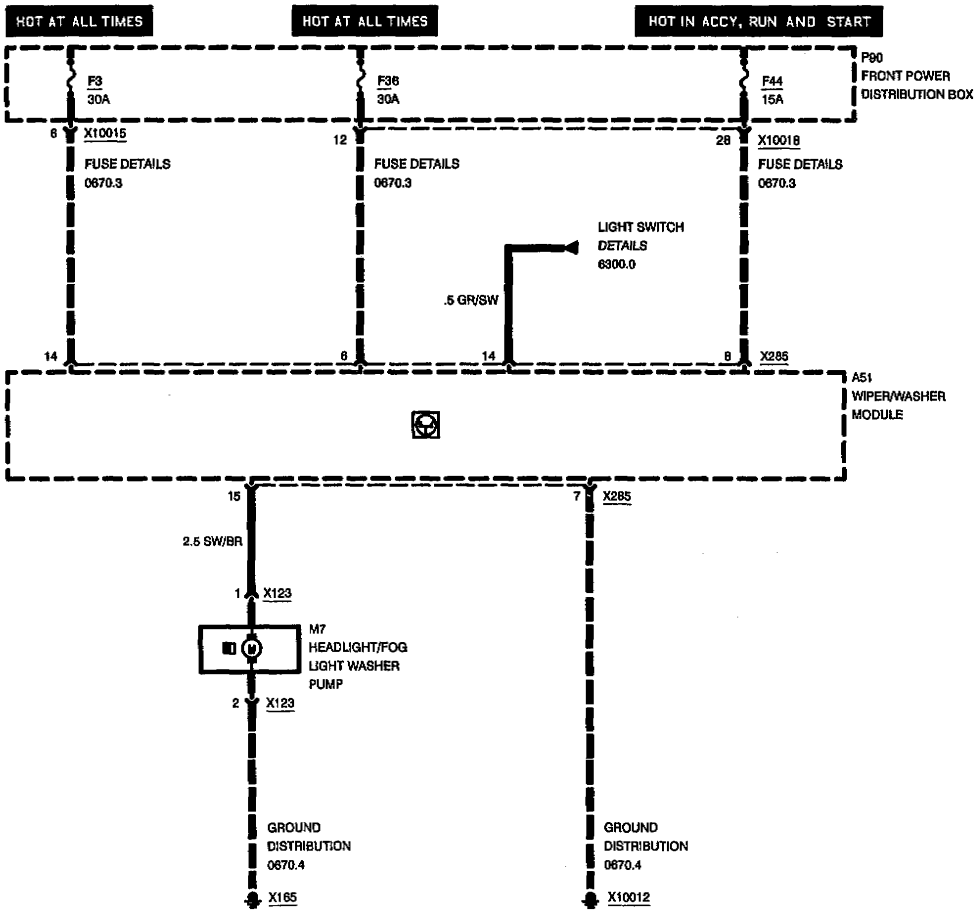
WASHER – HIGH



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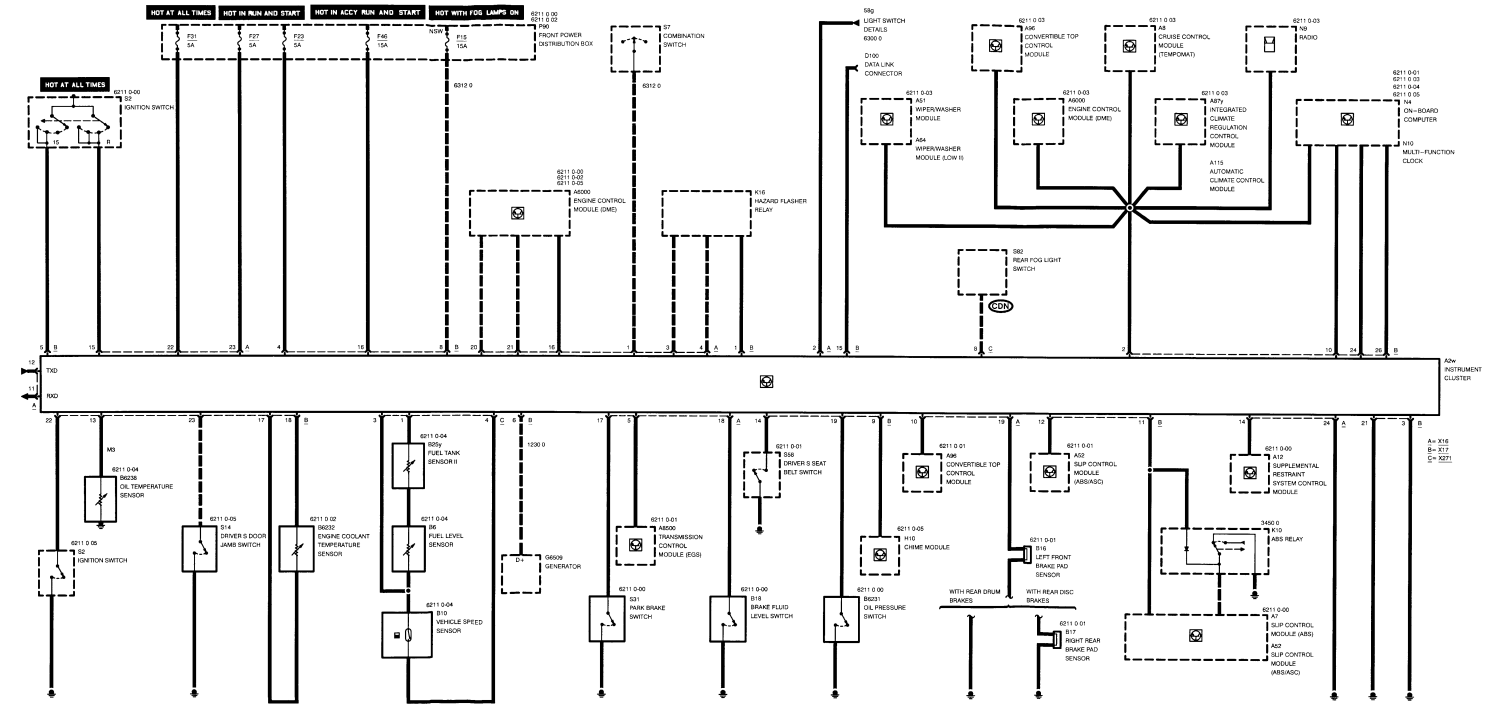
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HEADLIGHT WASHER (SRA)

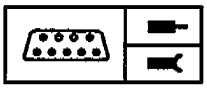


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Pin Assignments

X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instument 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 Roll over signal	Convertible top control module
11	A	RxD diagnostic data link	Data link connector
12	E/A	TxD diagnostic data link	Data link connector
13	E	M3 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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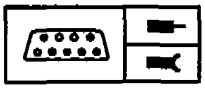
Pin Assignments

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)
12	E	ASC signal	ASC control module
13		Not used	
14	E	Seat belt warning lamp control	Driver's seat belt switch
15	E	SIA reset/service interval indicator reset	Data link connector
16	E	Voltage supply, terminal R	Front power distibution 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	M	Ground	Ground point
22	E	Ignition key warning/audible ignition key warning	Ignition switch
23	E	Driver's door open	Driver's door jamb switch
24	A	Dimmer signal/brightness information signal for connected control modules	On-board computer or multi-function clock

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
25		Not used	
26	E	Central indicator lamp/check-control	On-board computer or multi-function clock

X271

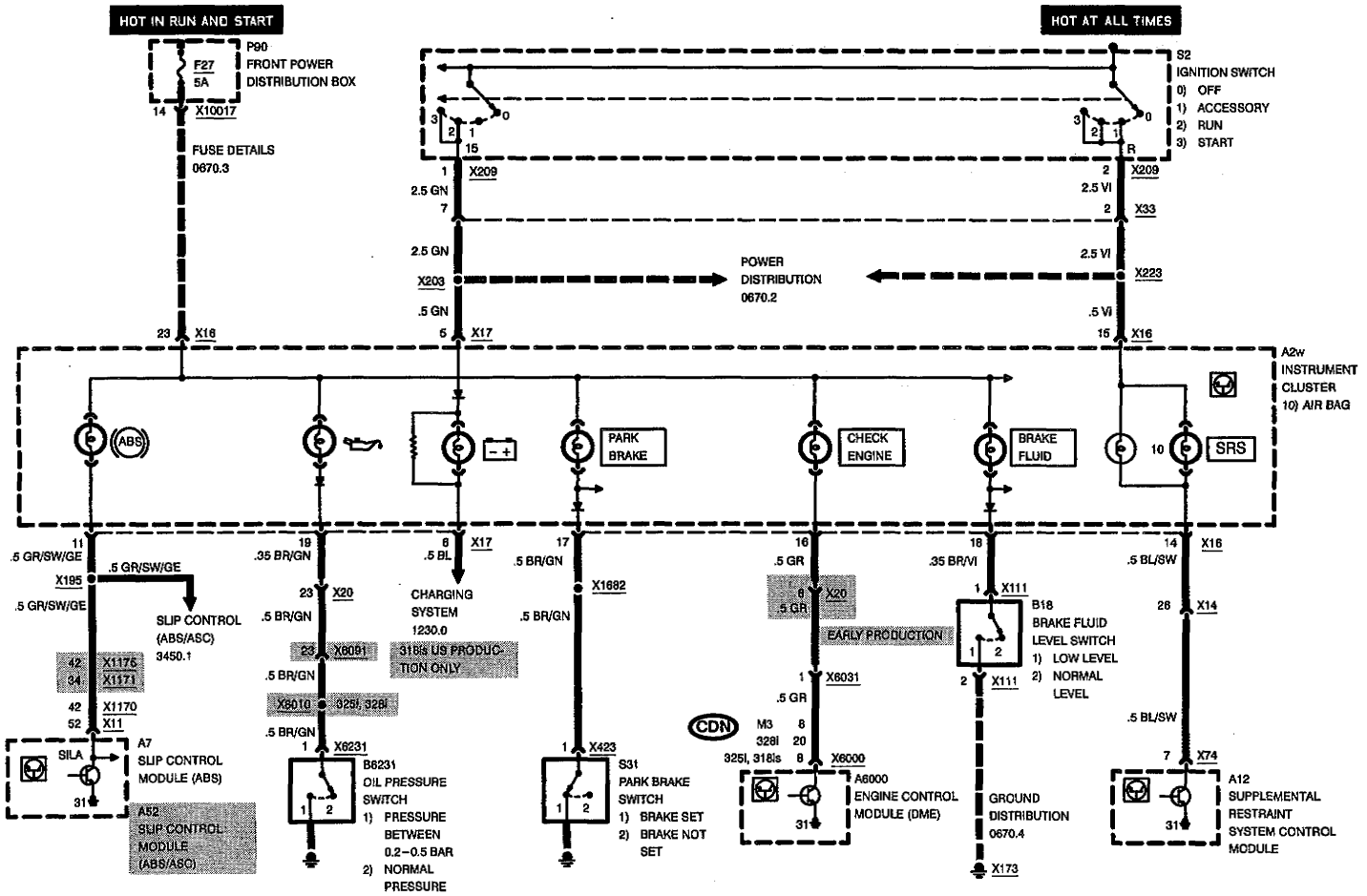
Pin	Type	Descrption/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensors and vehicle speed sensor	Fuel tank sensors and vehicle speed sensor
4	E	Position signal tw	Vehicle speed sensor
5	E	Rear fog lights indicator control	Rear fog light switch
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

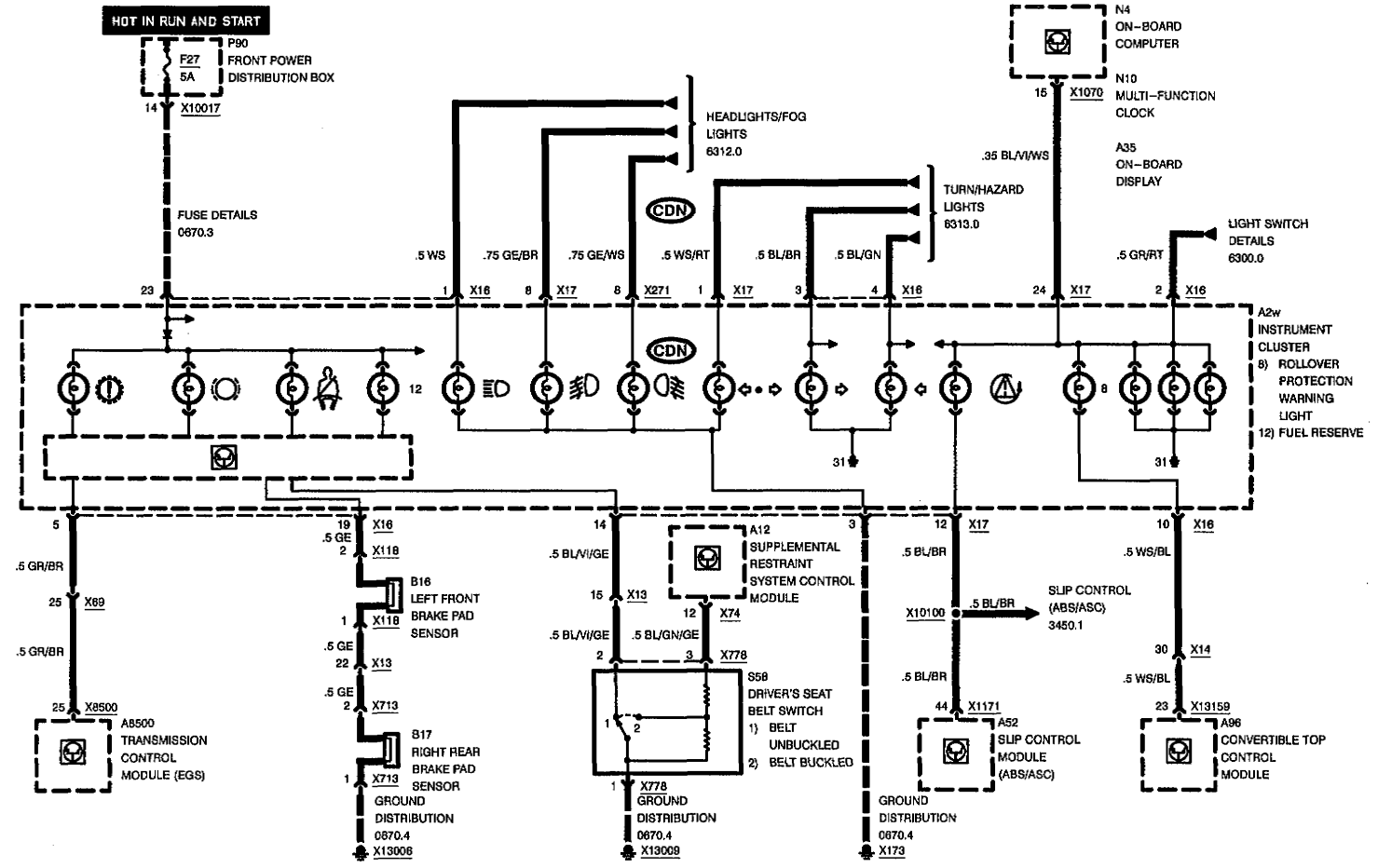
INDICATORS



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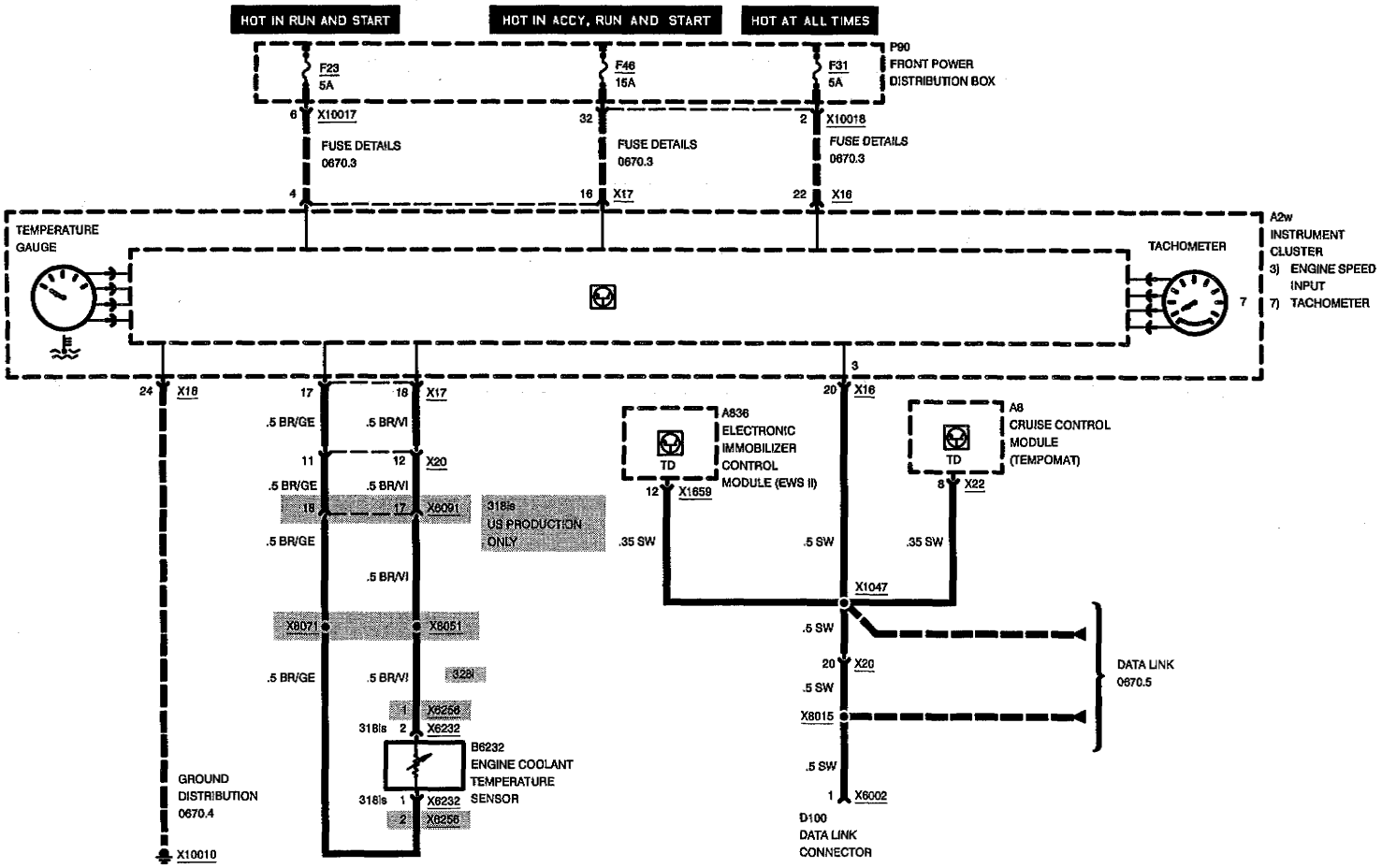
INDICATORS



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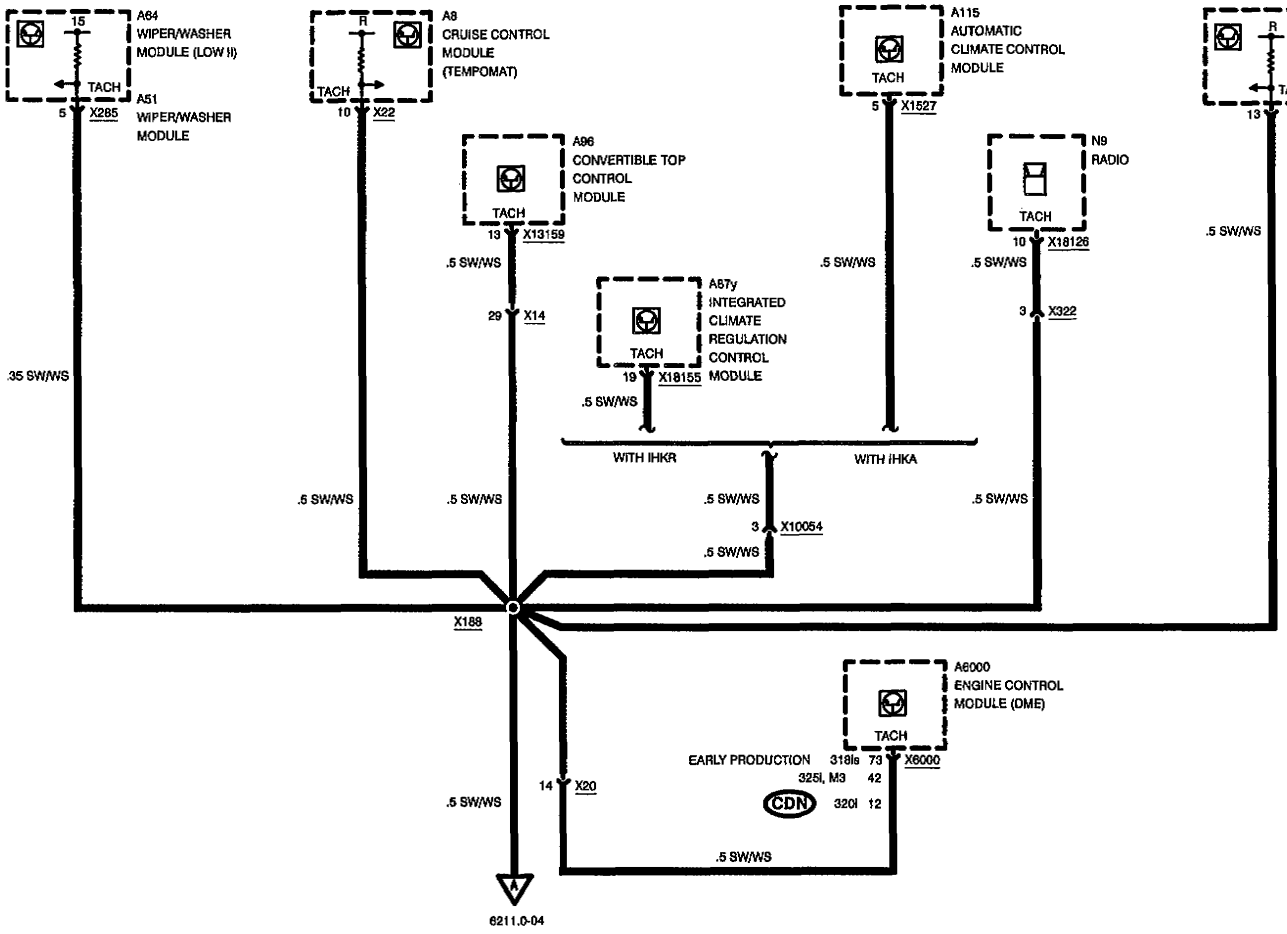
INDICATORS



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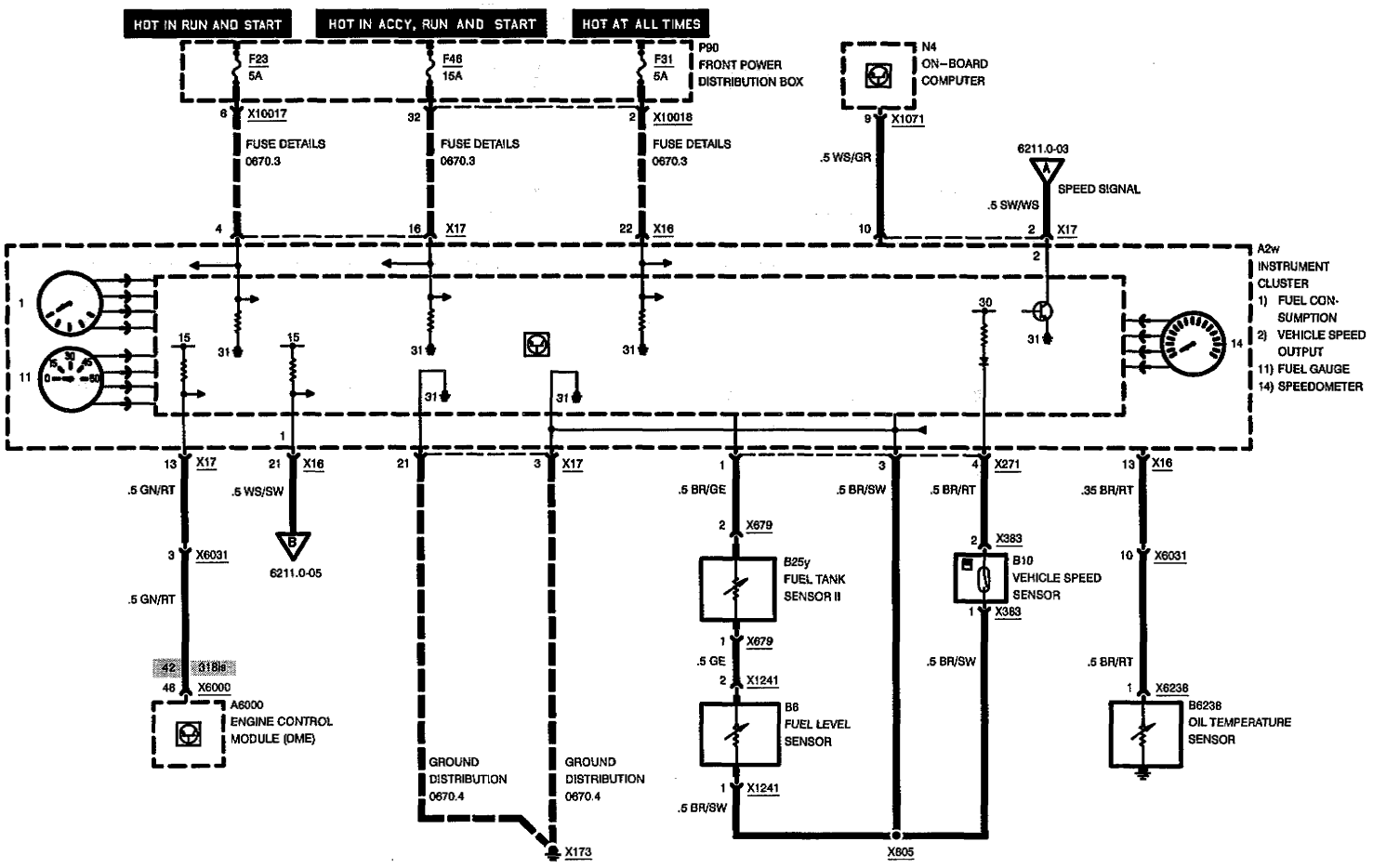
SIGNAL–OUTPUT SPEEDOMETER



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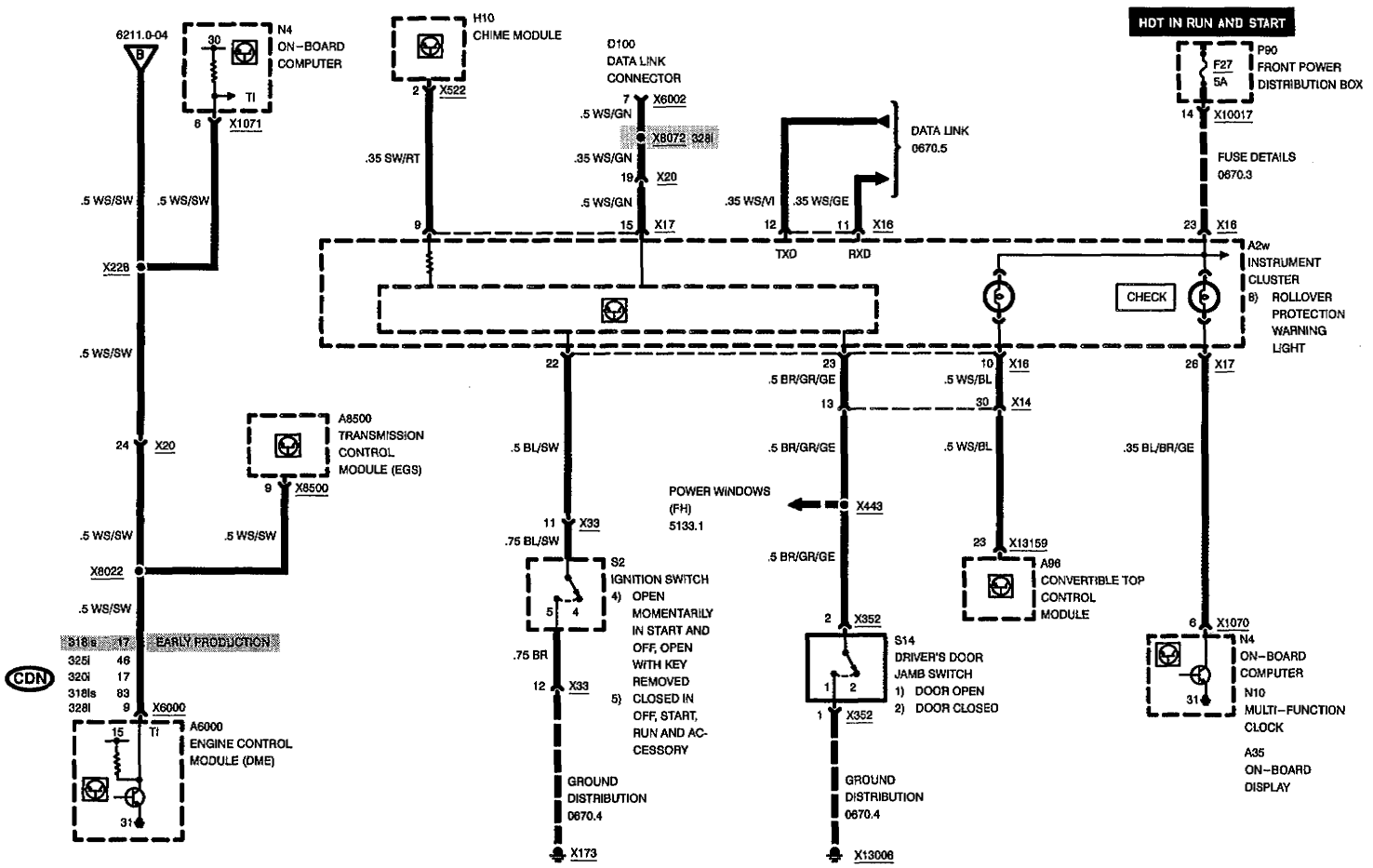
INDICATORS



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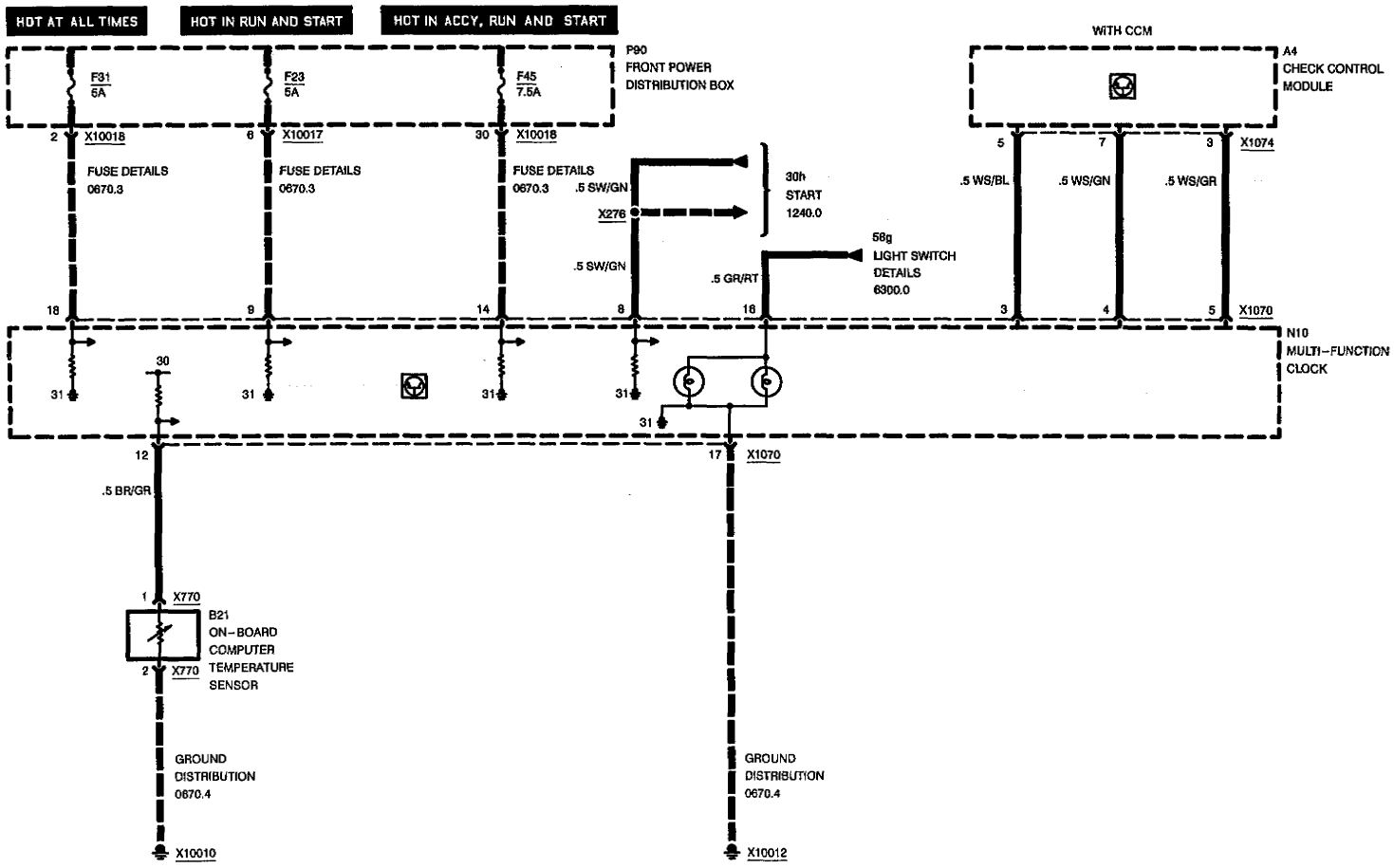
INSTRUMENT CLUSTER

INDICATORS



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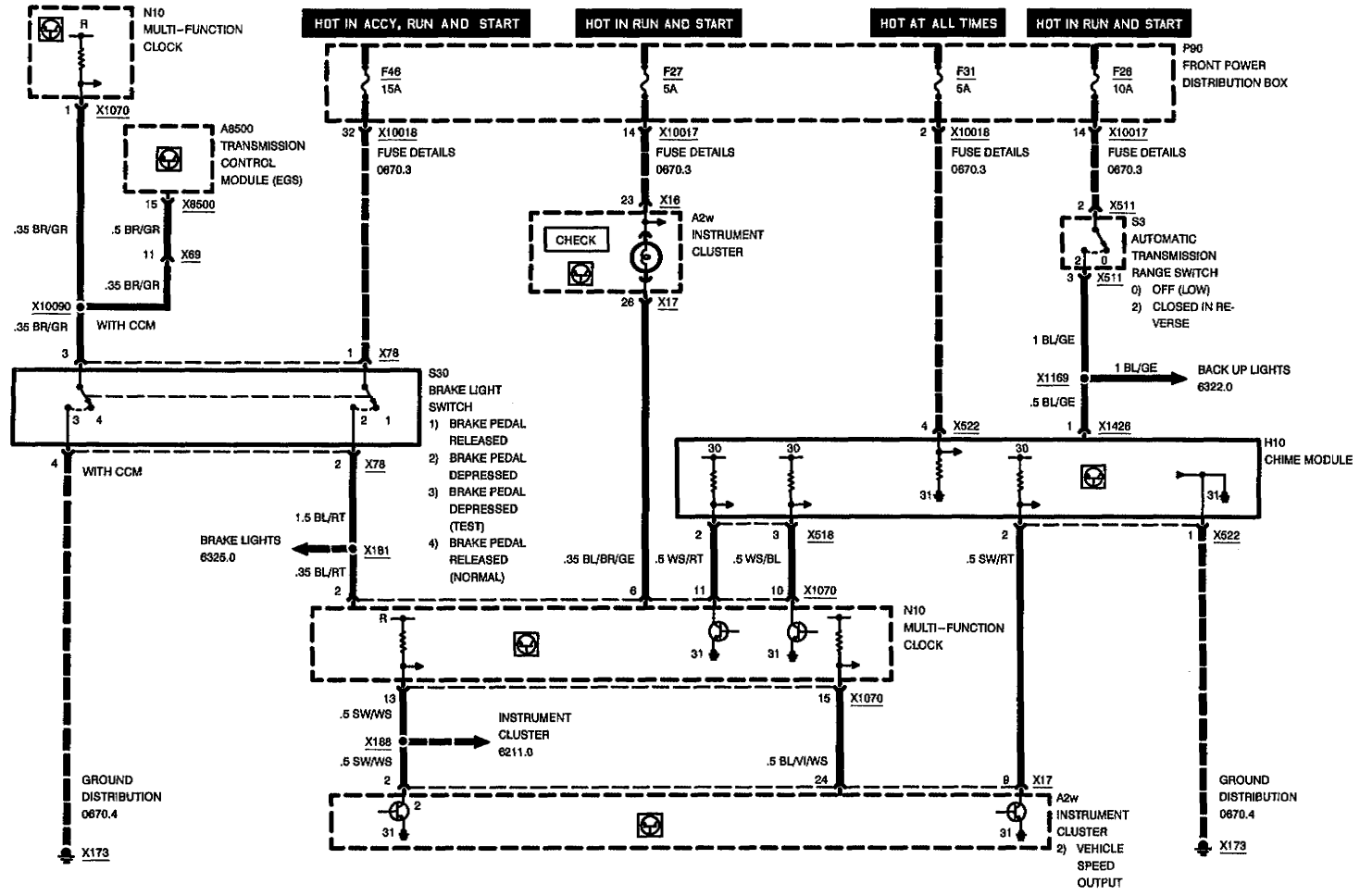
MULTI–FUNCTION CLOCK



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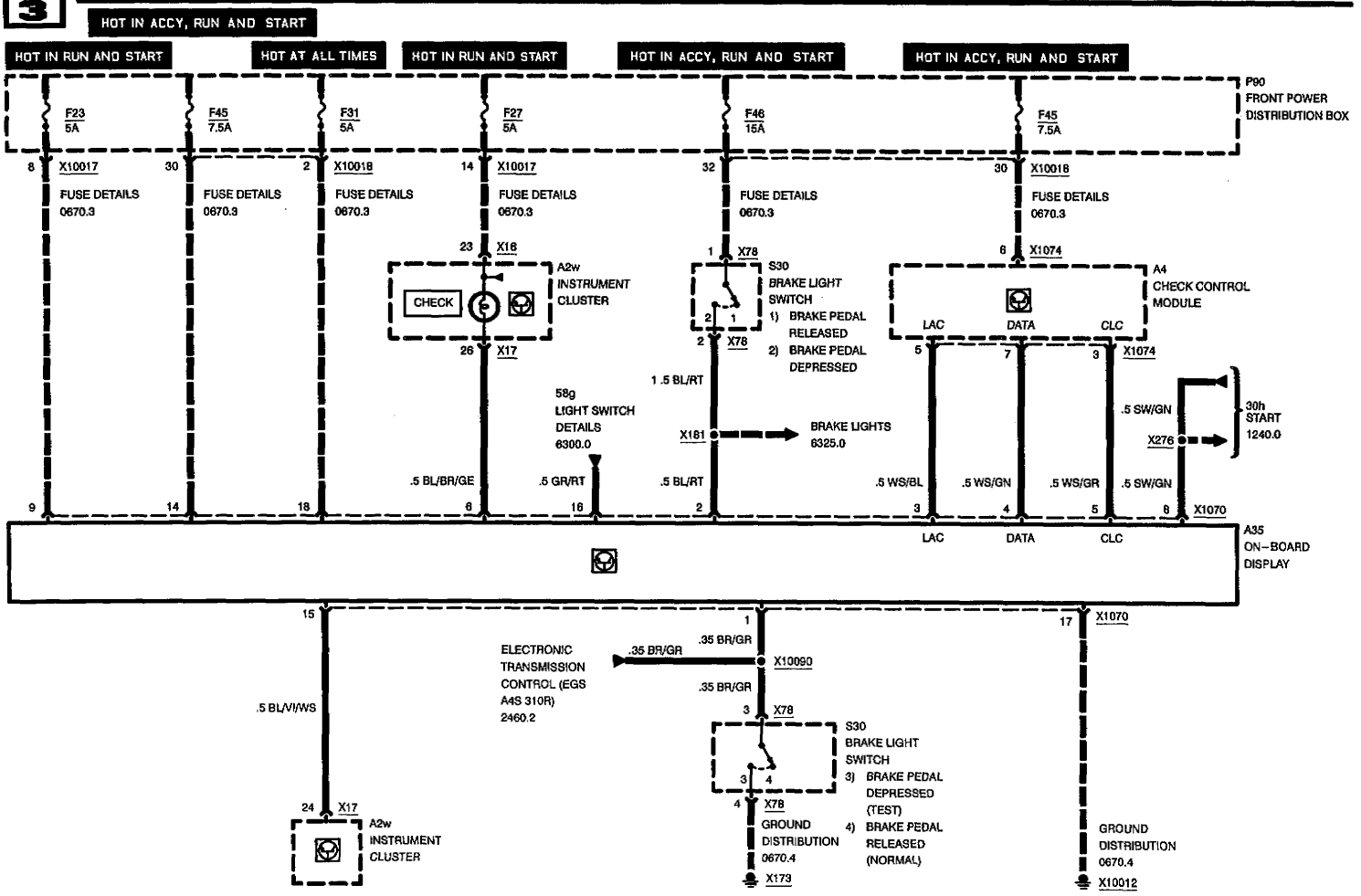
MULTI–FUNCTION CLOCK

CHIME, BRAKE LIGHT SWITCH



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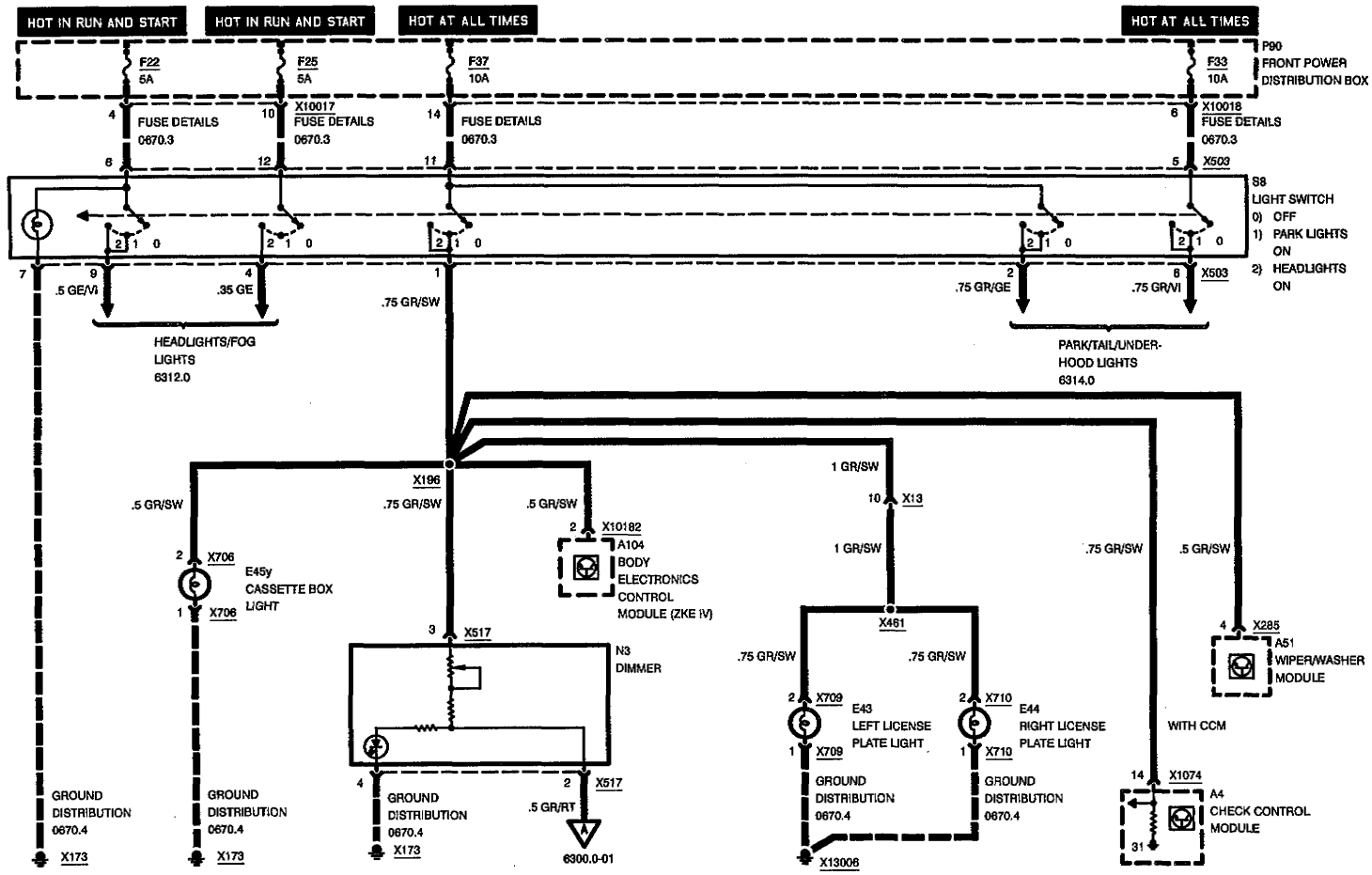
ON–BOARD DISPLAY



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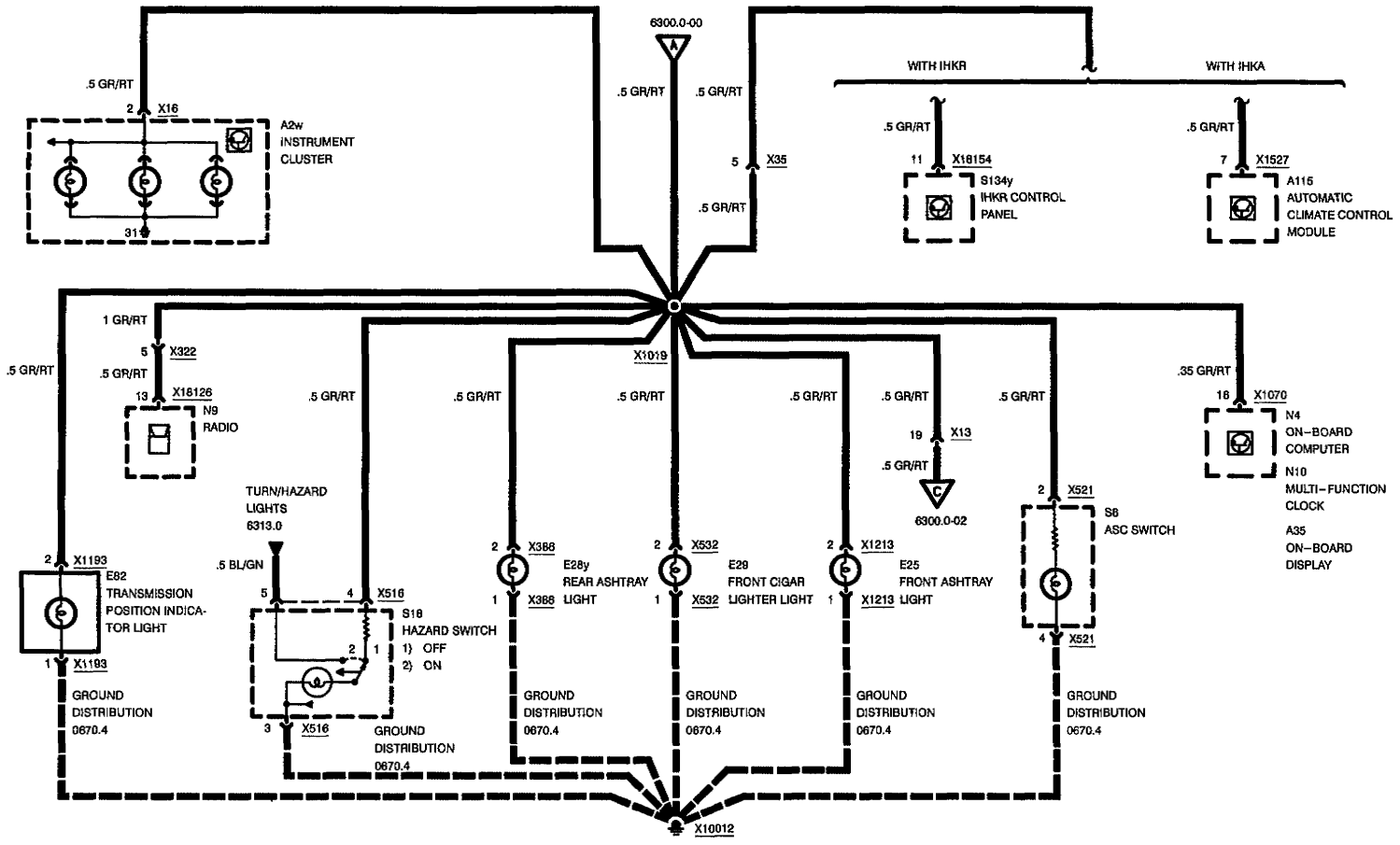
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LIGHT SWITCH DETAILS



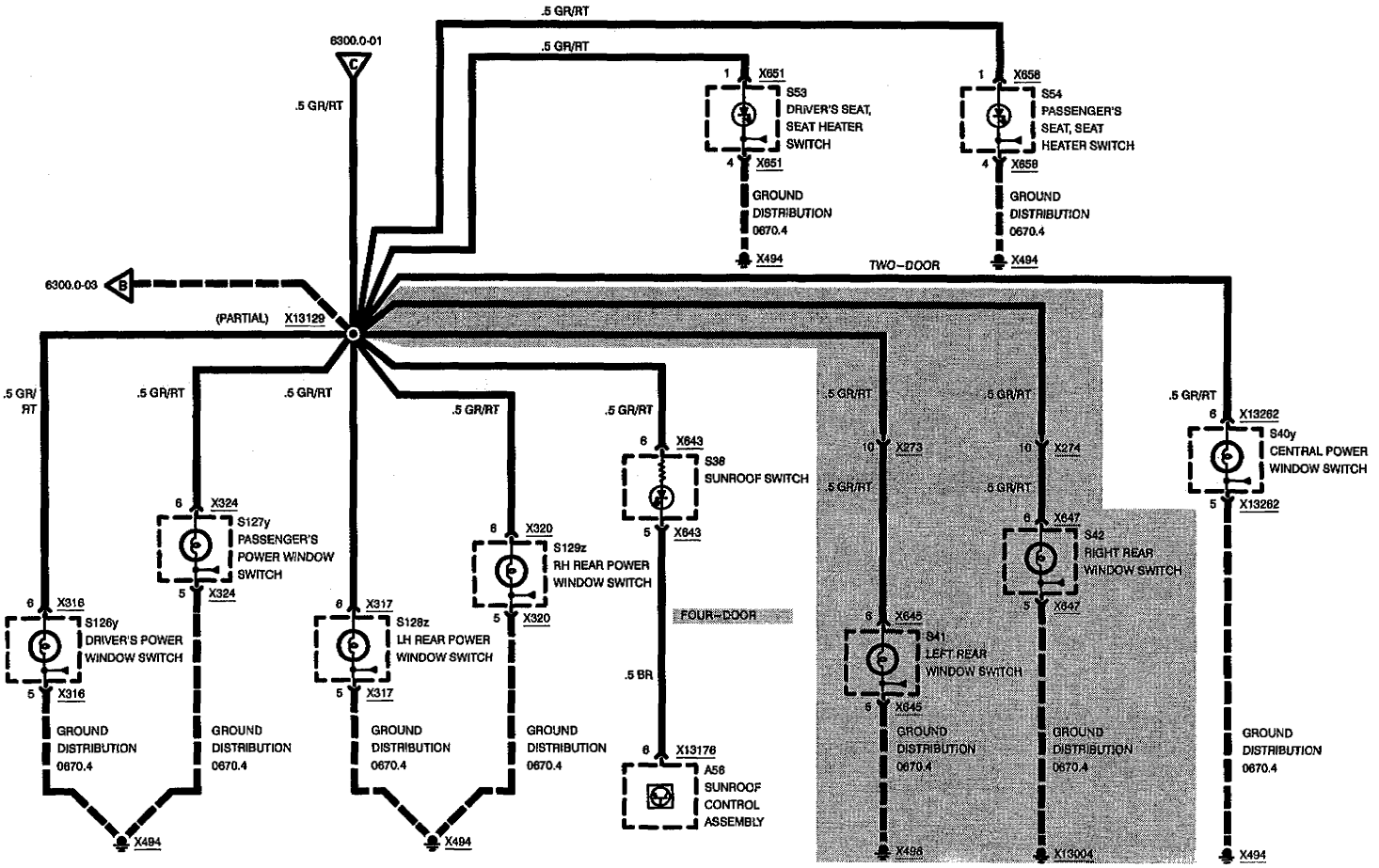
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LIGHT SWITCH DETAILS



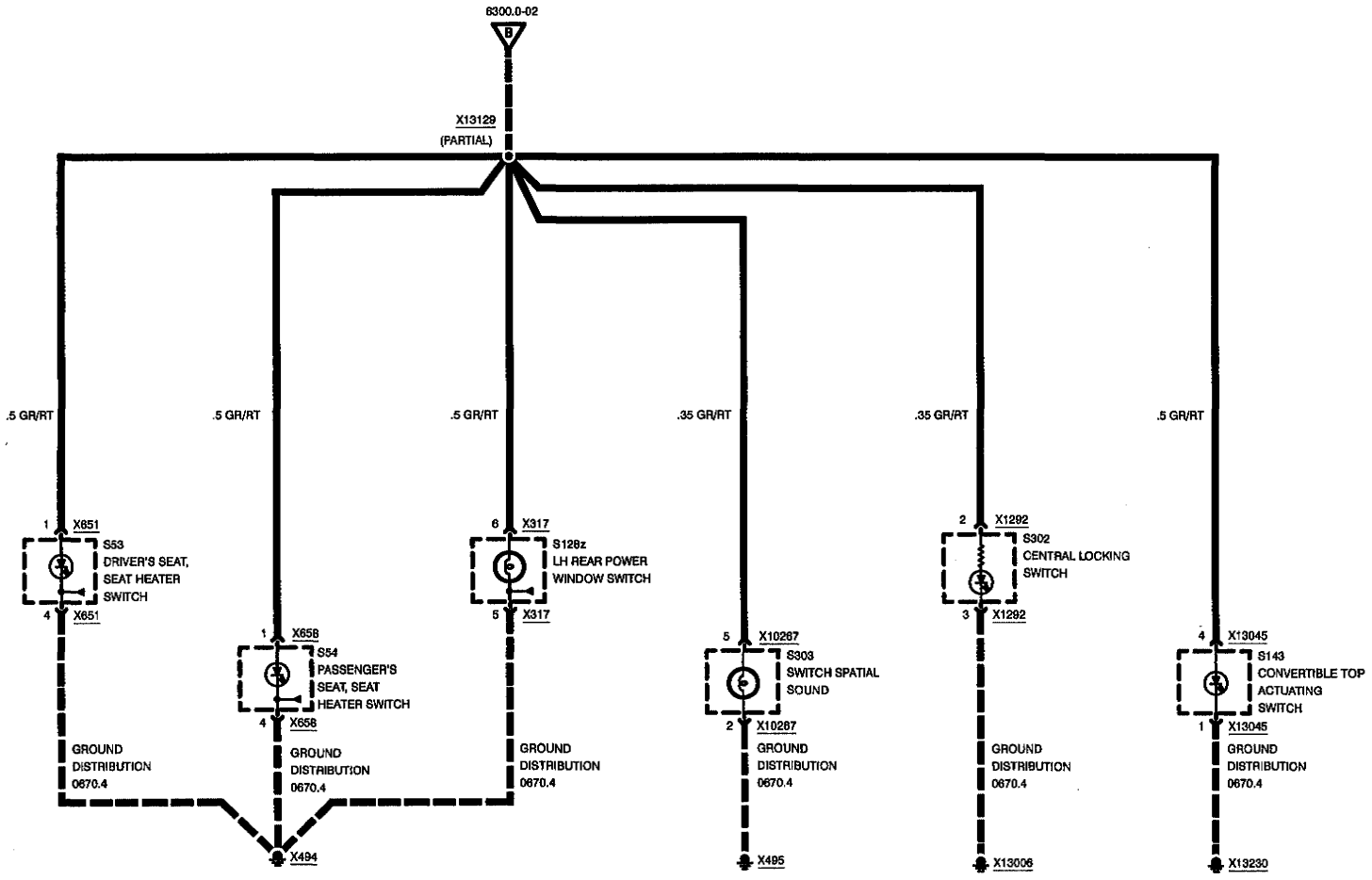
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LIGHT SWITCH DETAILS



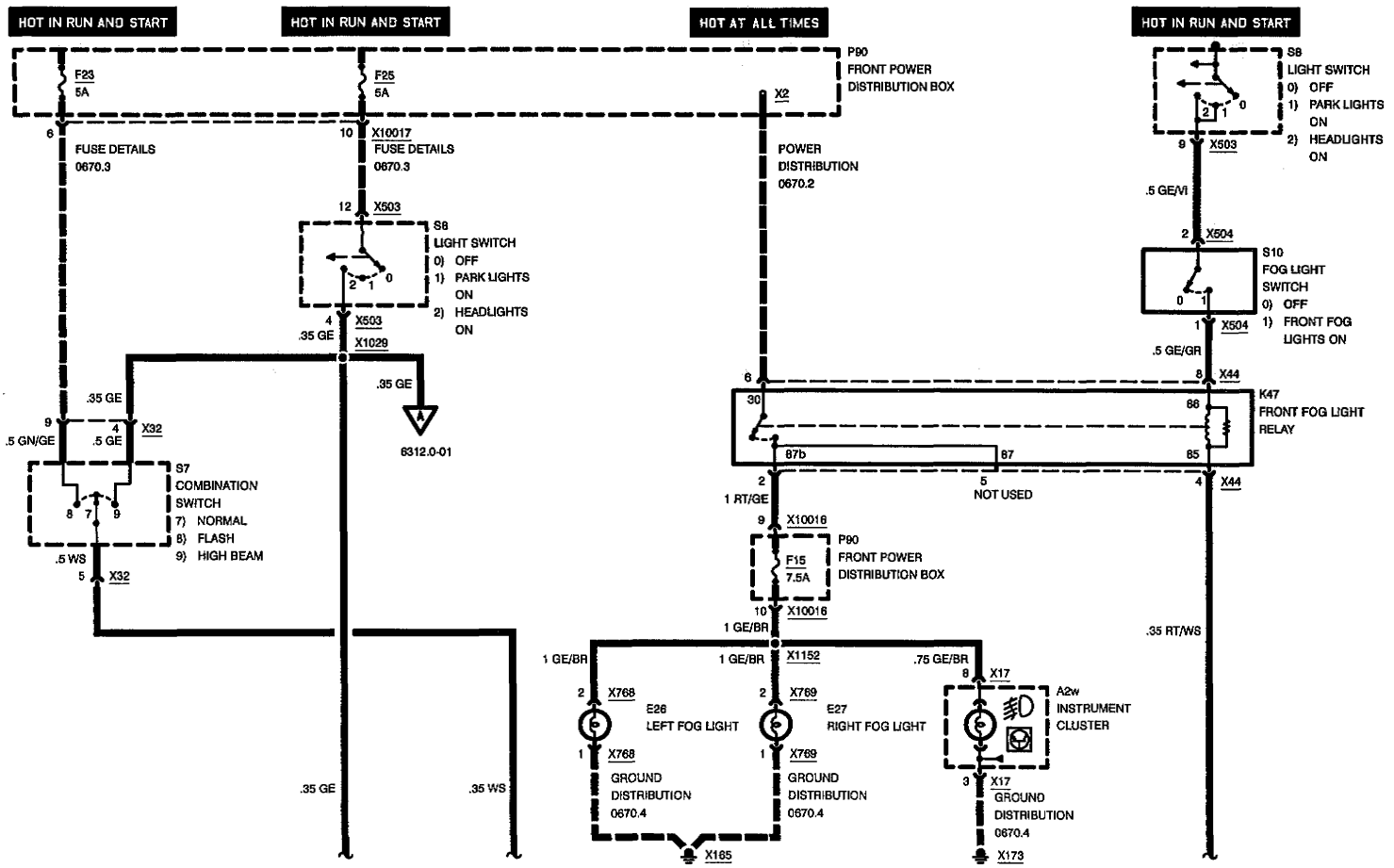
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LIGHT SWITCH DETAILS

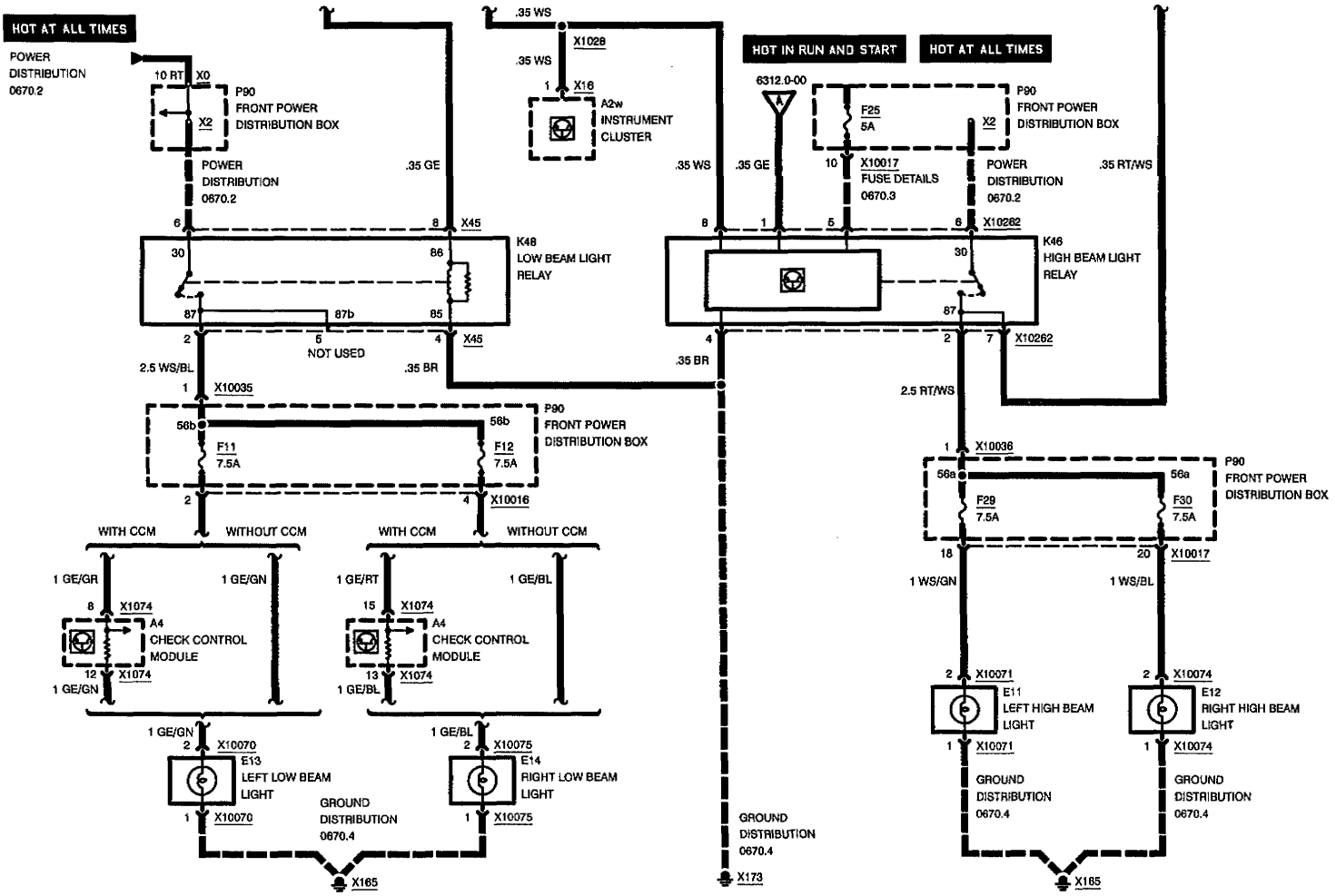


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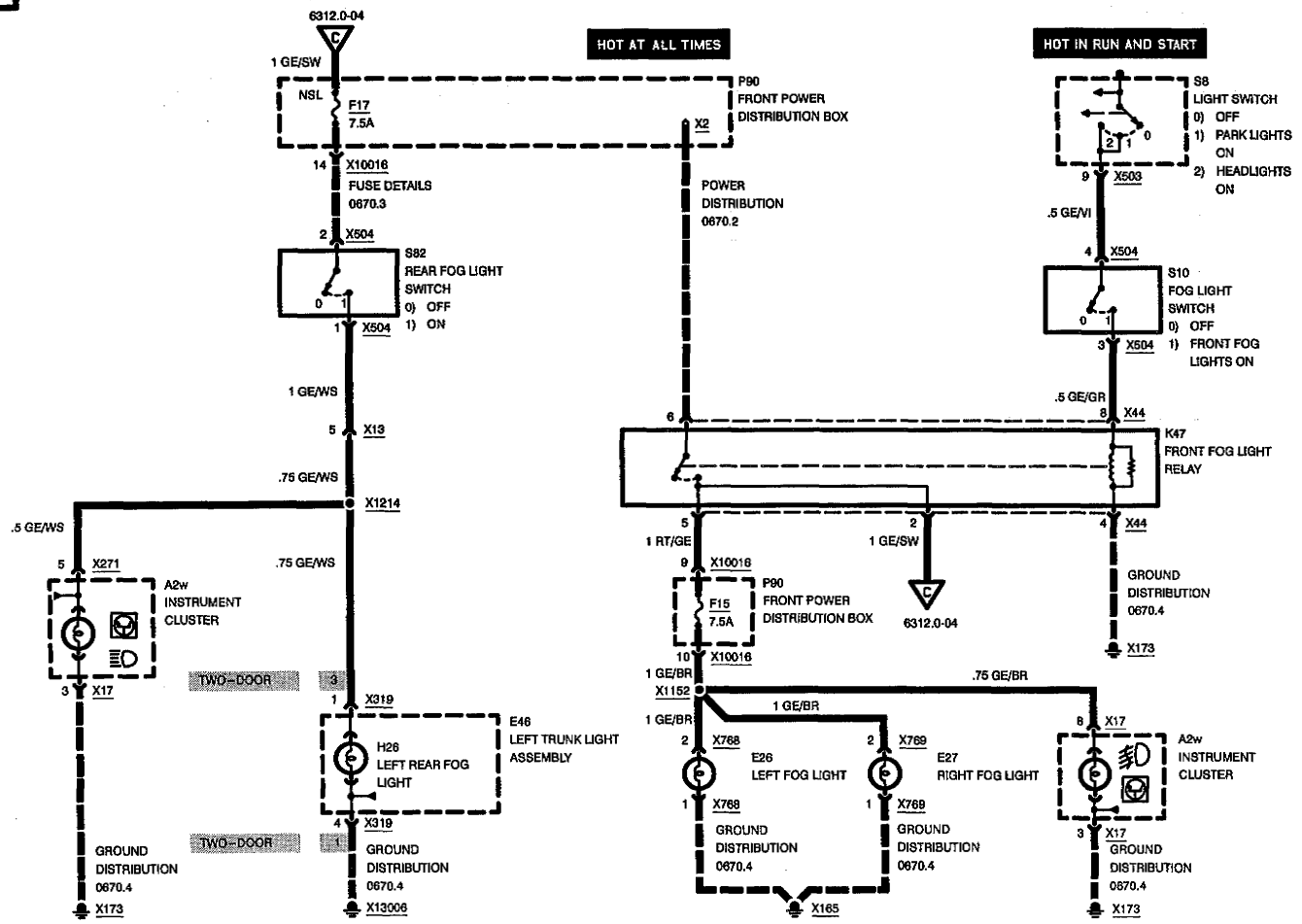
HEADLIGHTS/FOG LIGHTS



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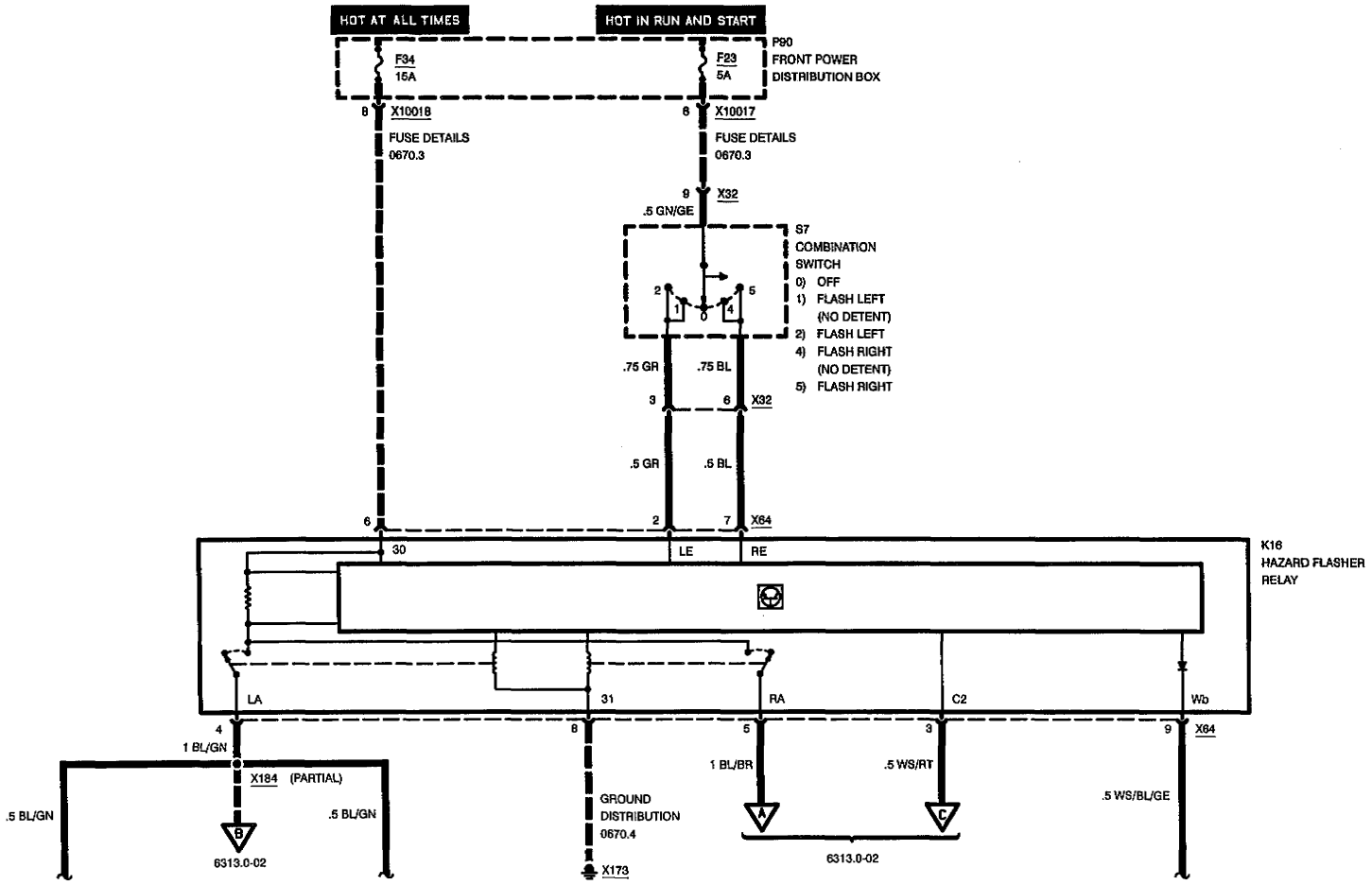
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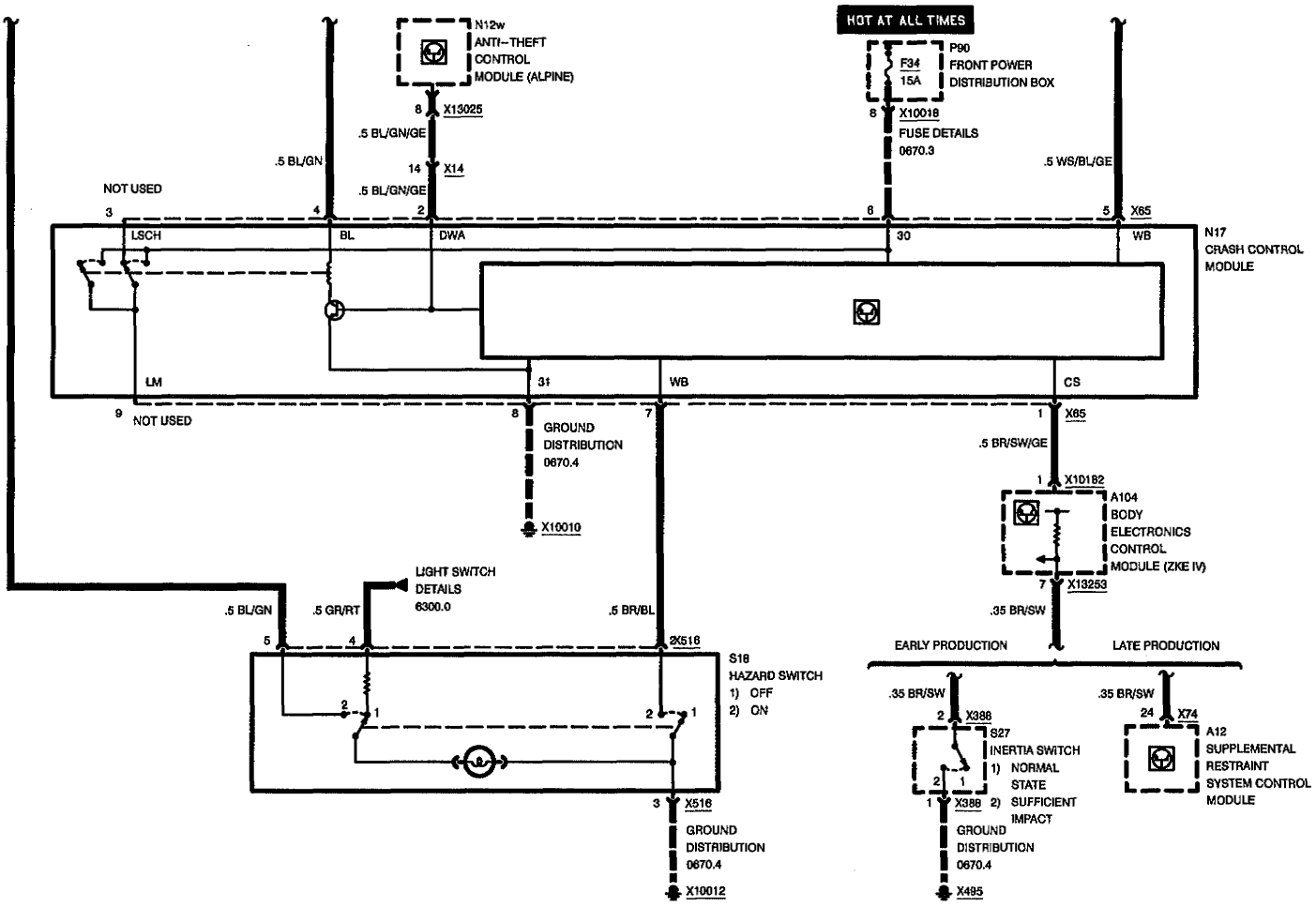
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TURN/HAZARD LIGHTS

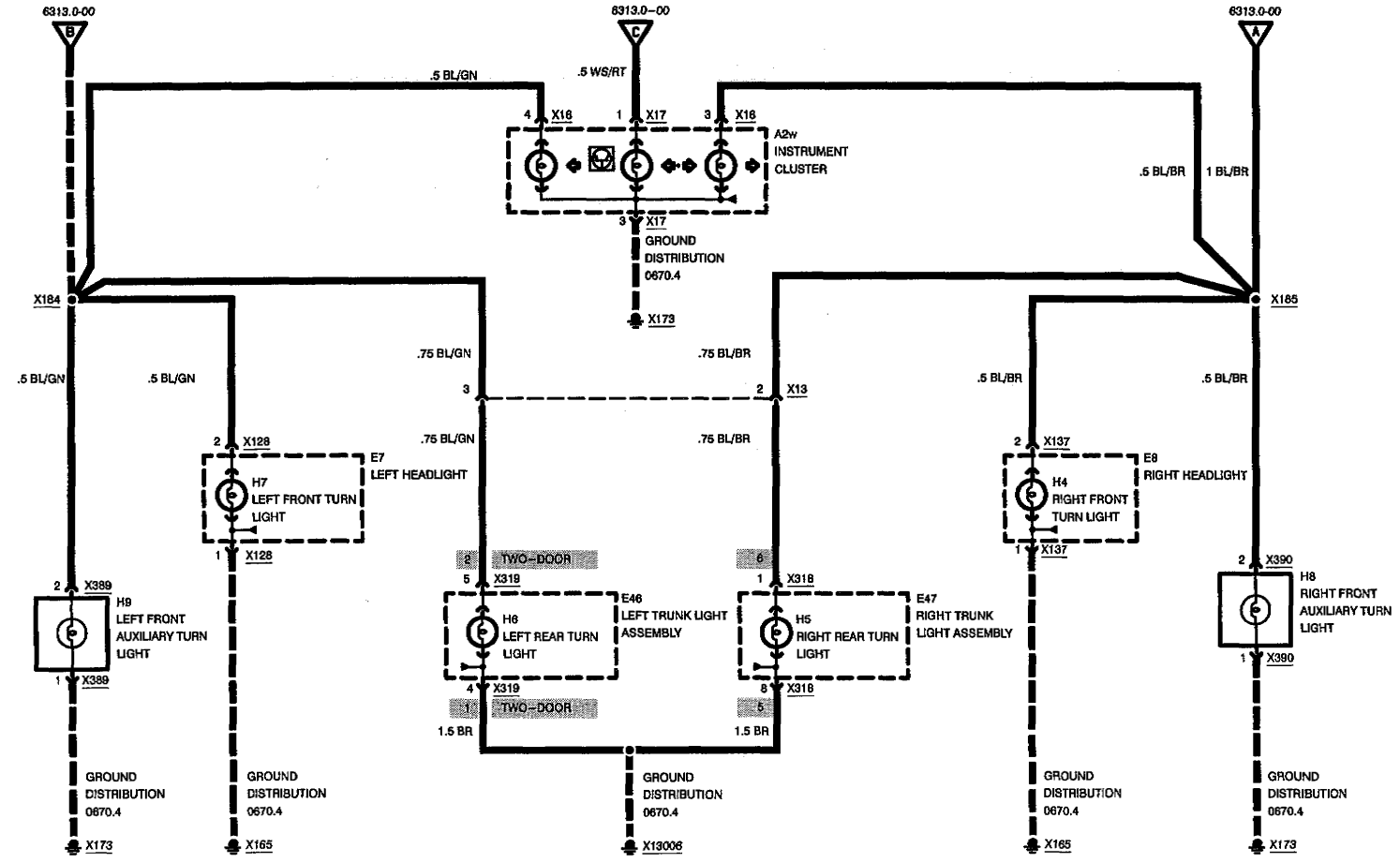


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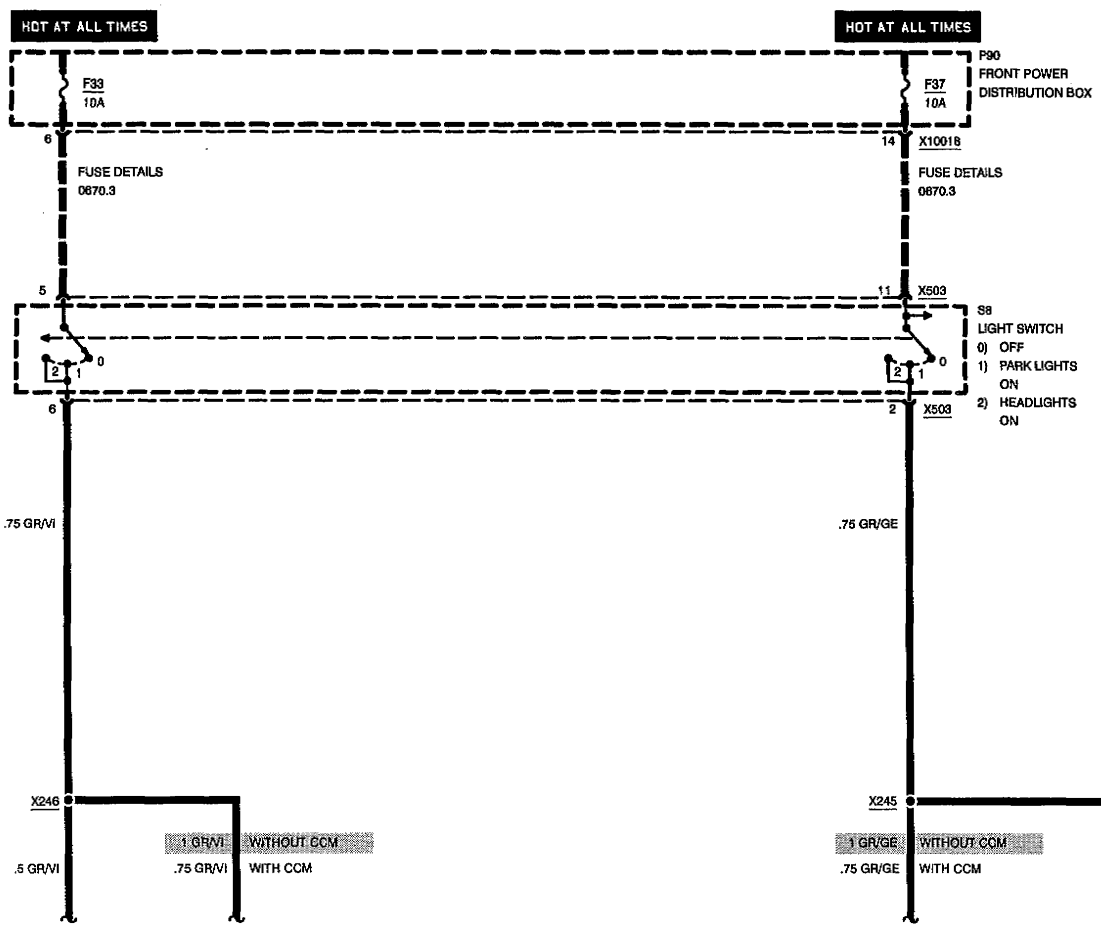
TURN/HAZARD LIGHTS



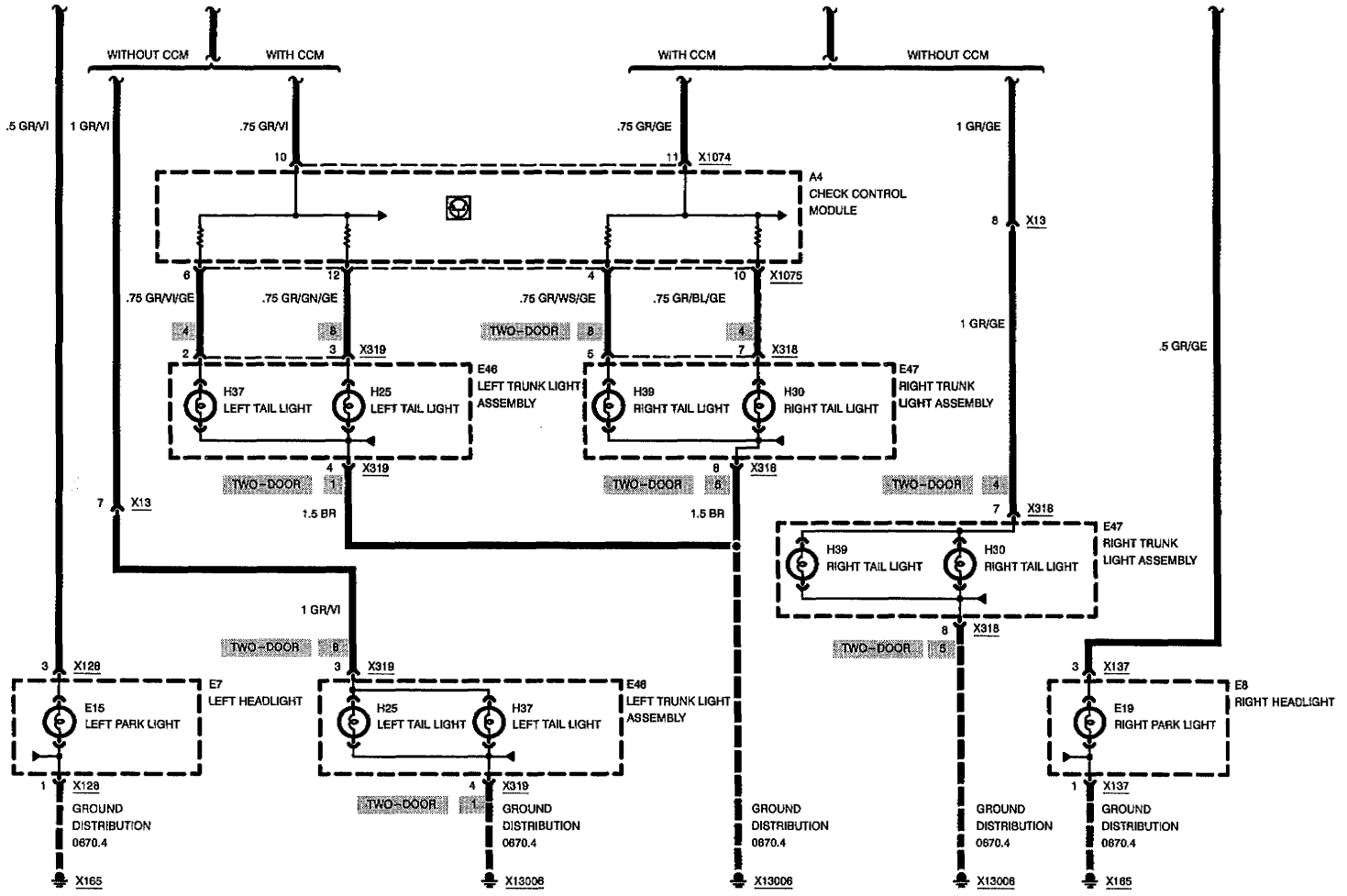
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PARK/TAIL LIGHTS

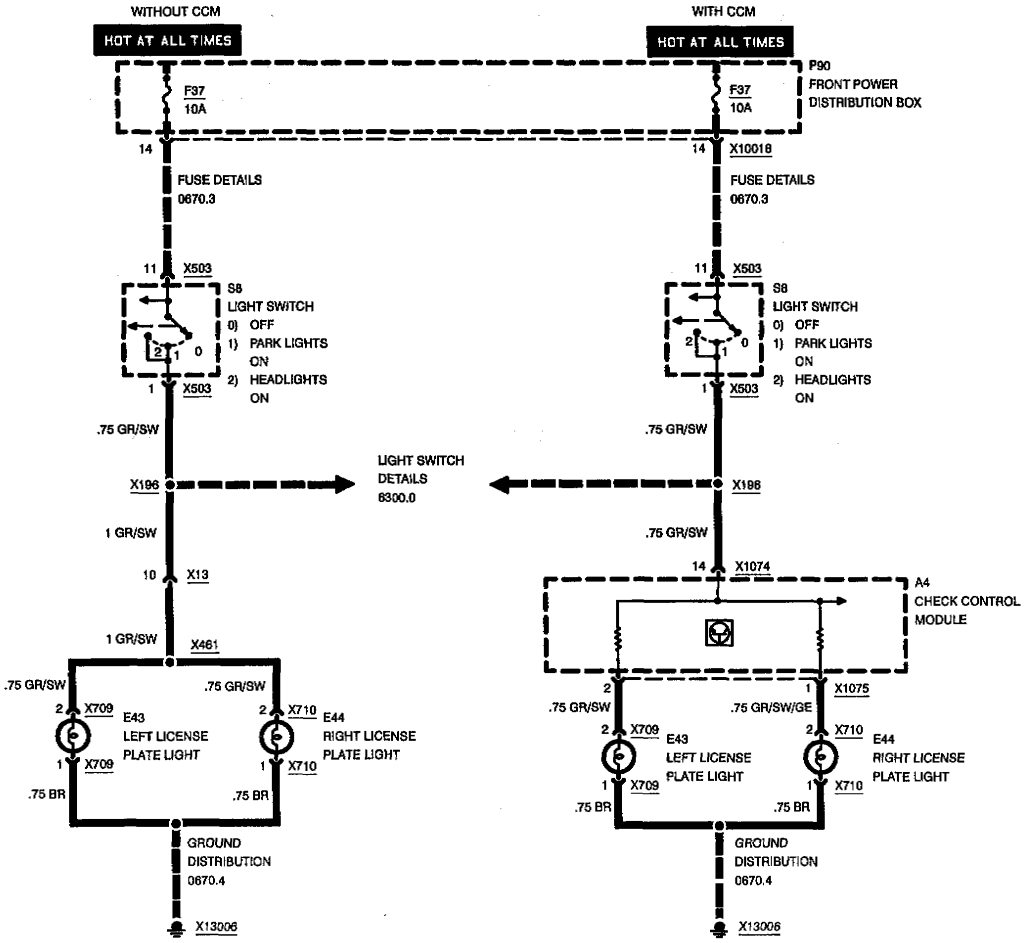


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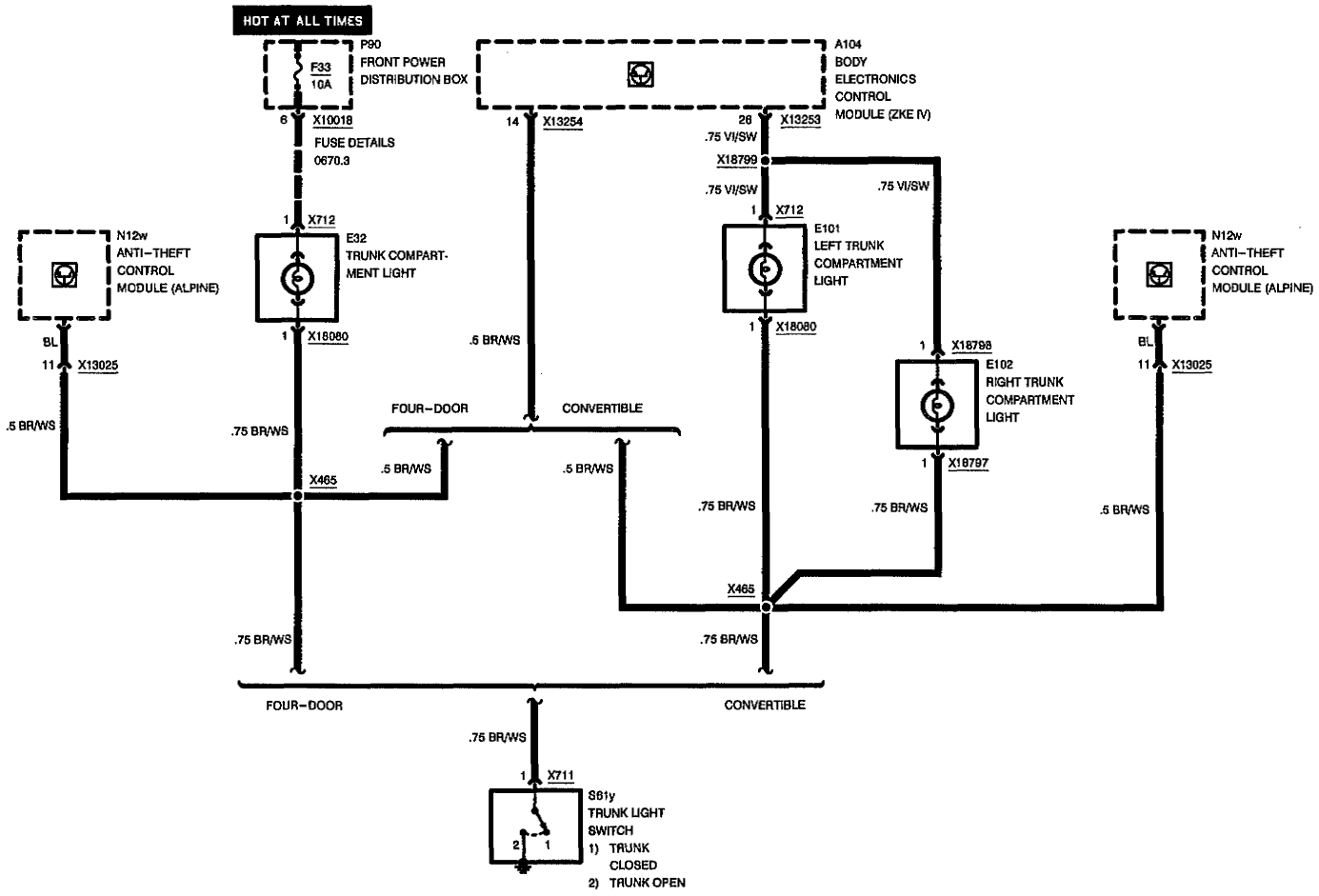
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LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS



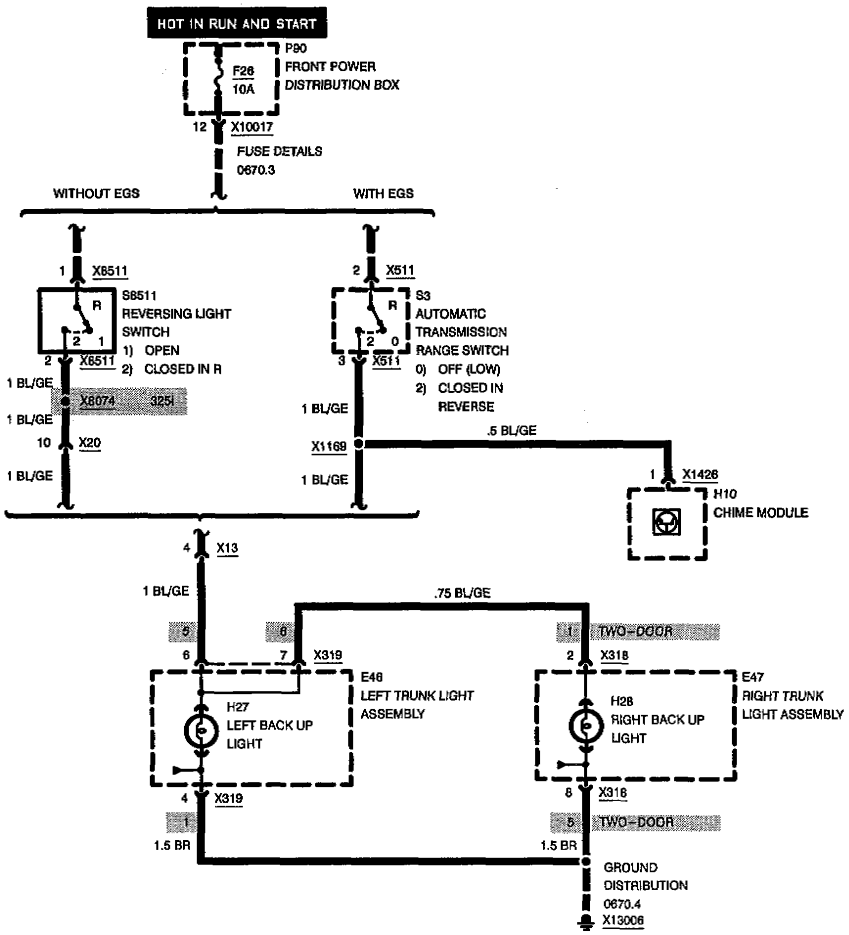
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LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS



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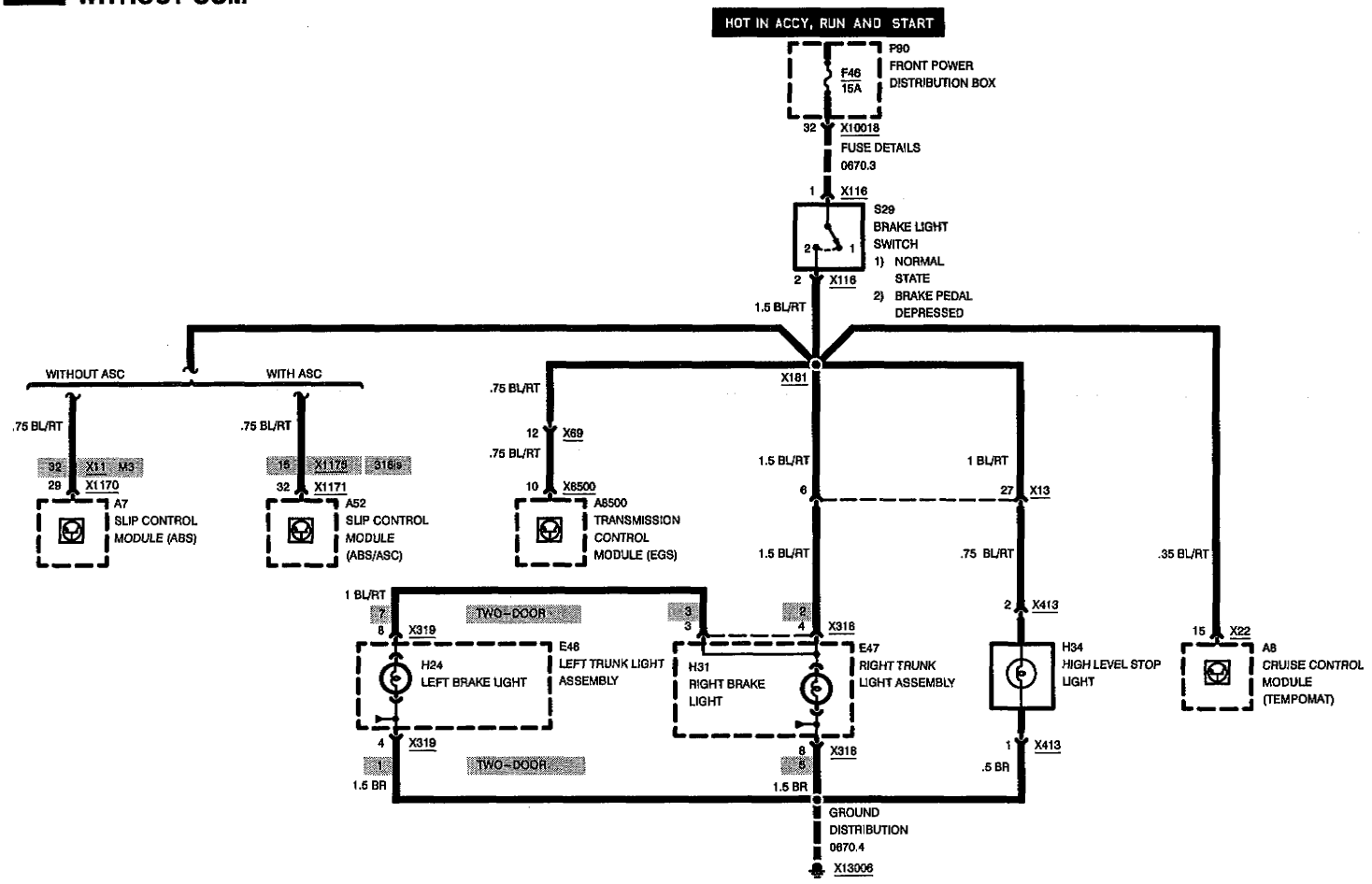
BACK UP LIGHTS



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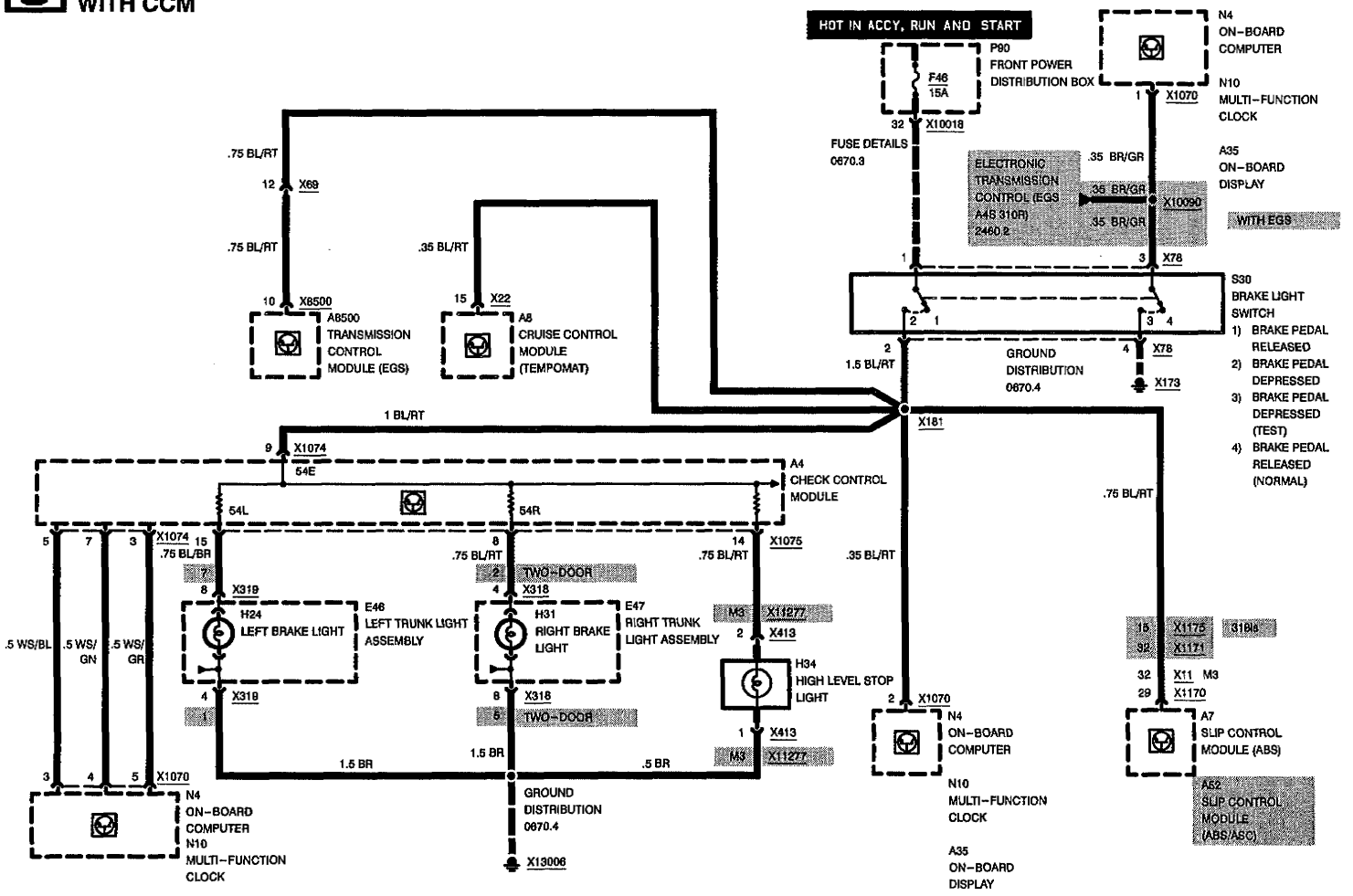
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BRAKE LIGHTS
WITHOUT CCM

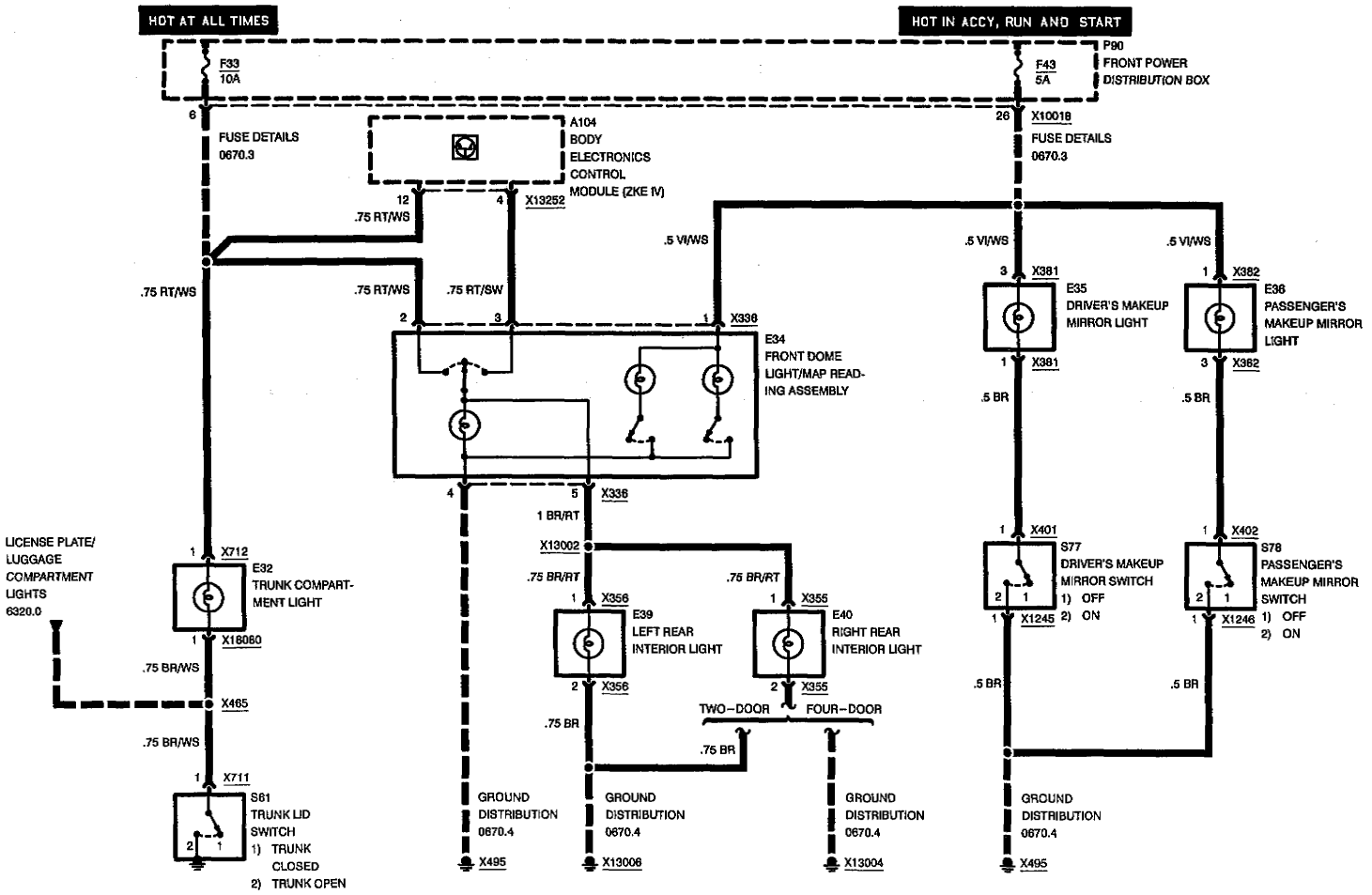


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BRAKE LIGHTS
WITH CCM

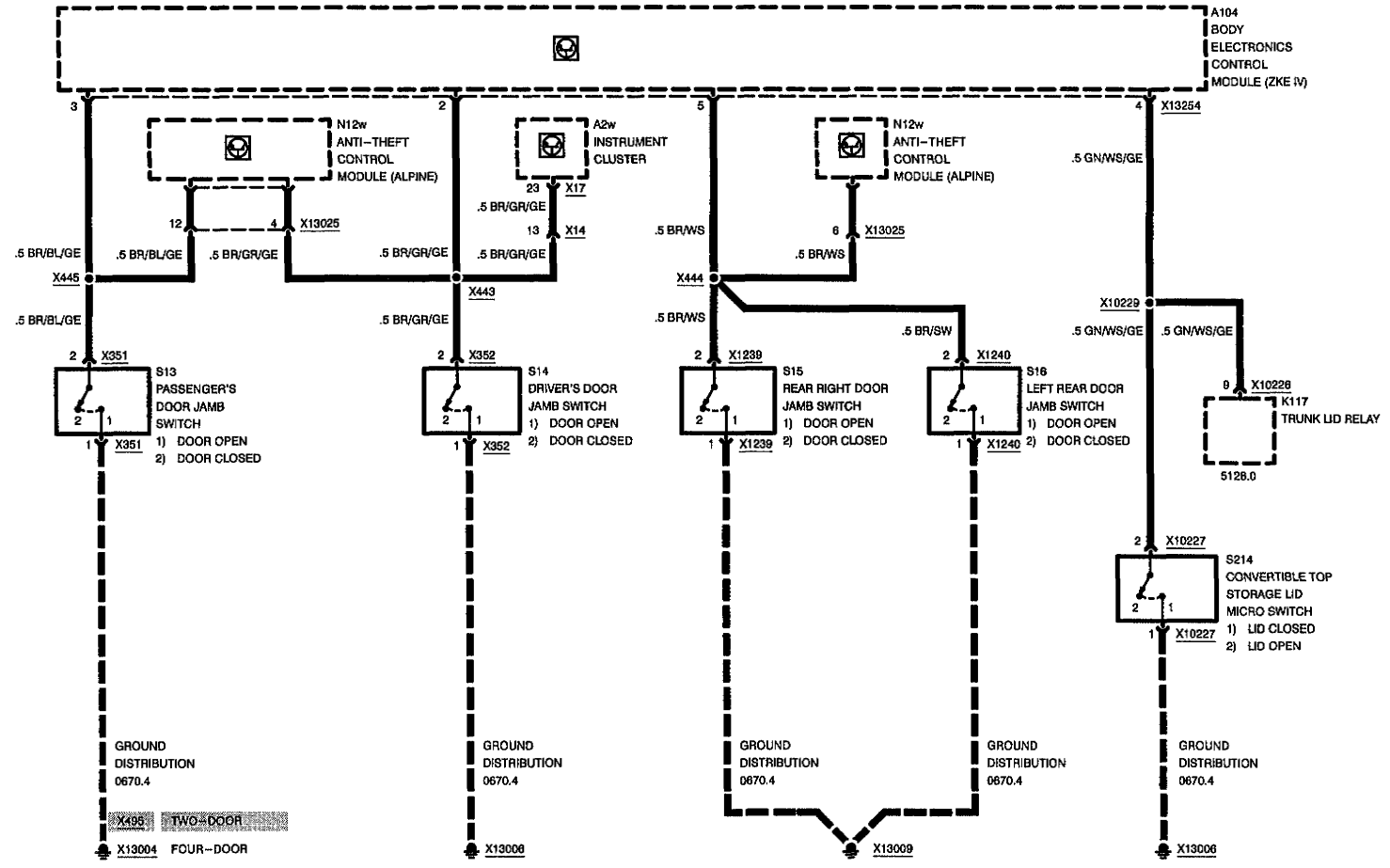


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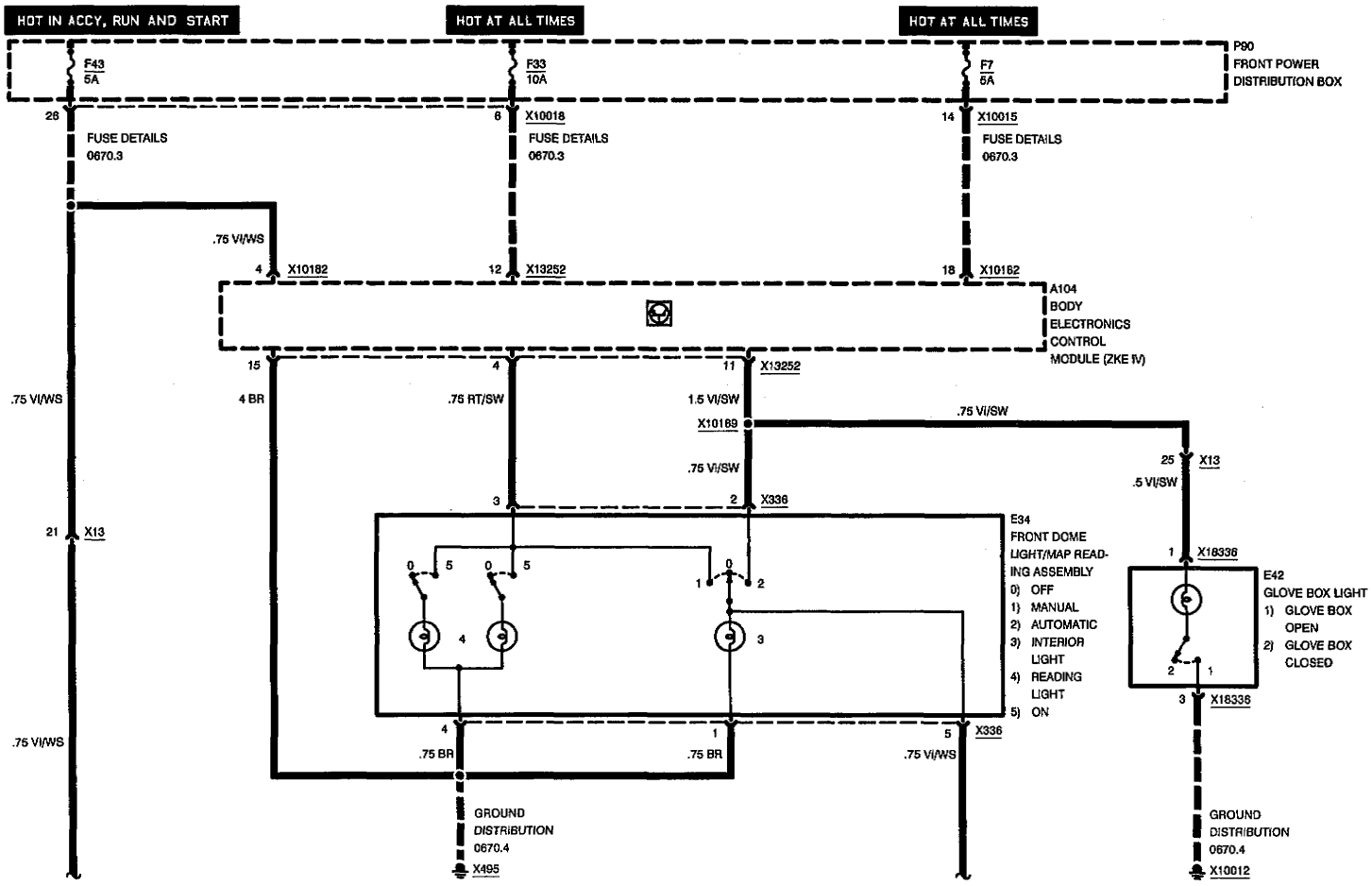
INTERIOR LIGHTS



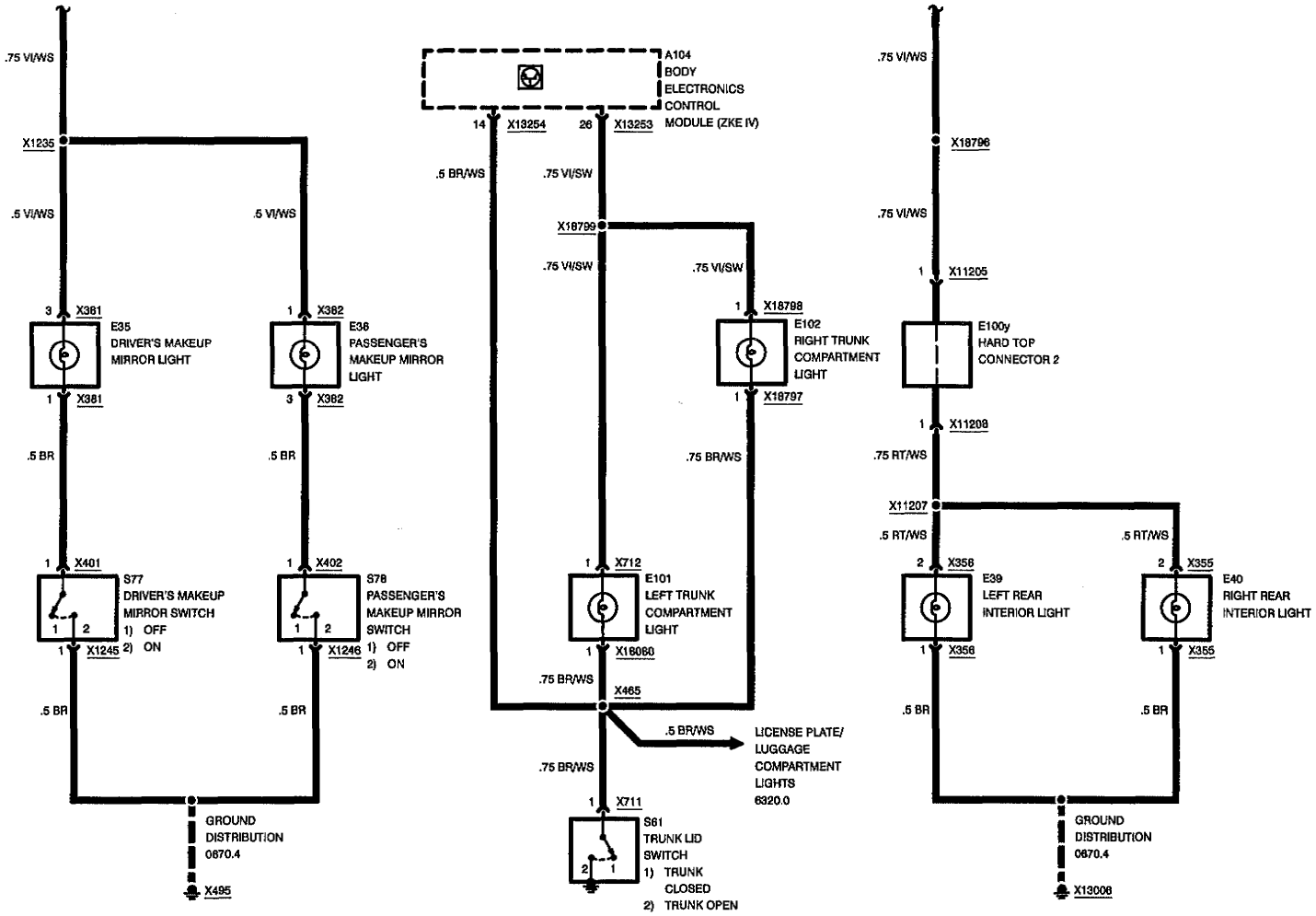
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INTERIOR LIGHTS

CONVERTIBLE

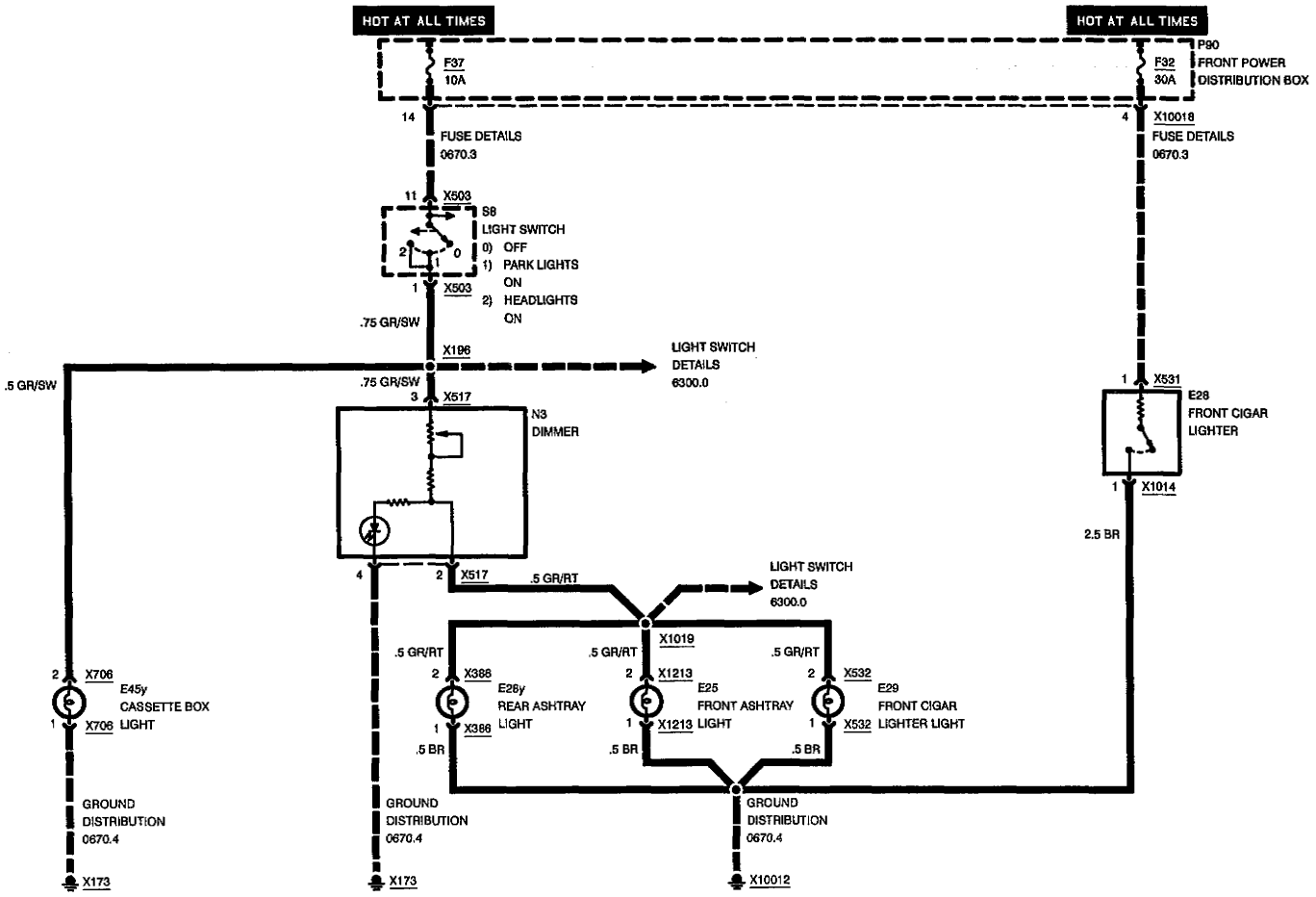


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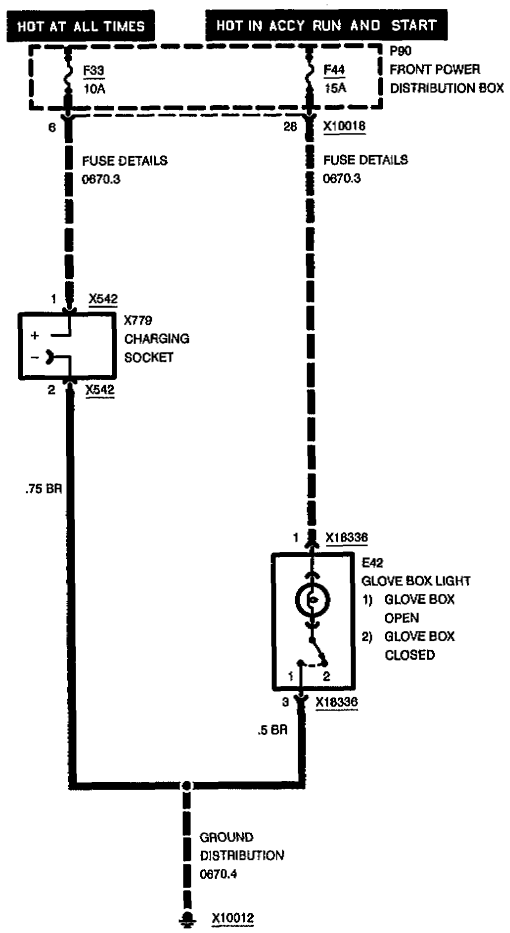
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GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER

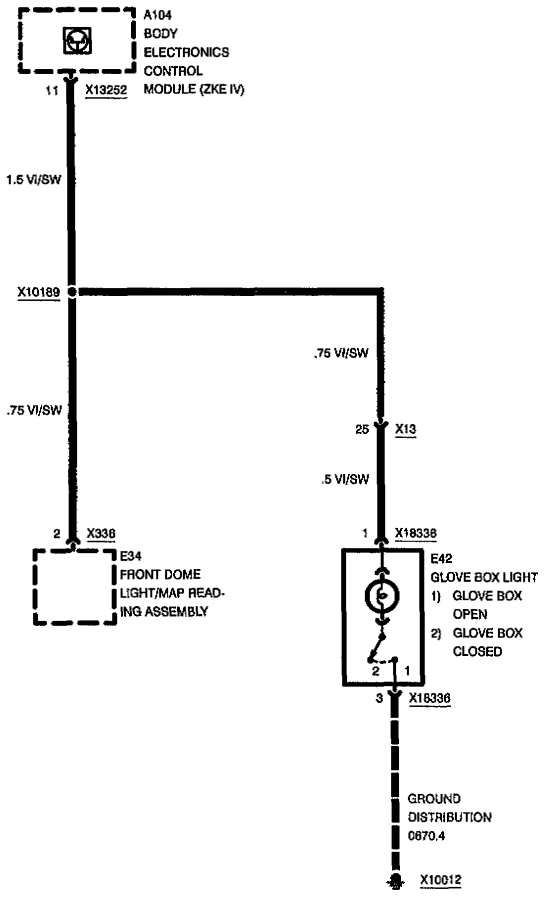


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GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER

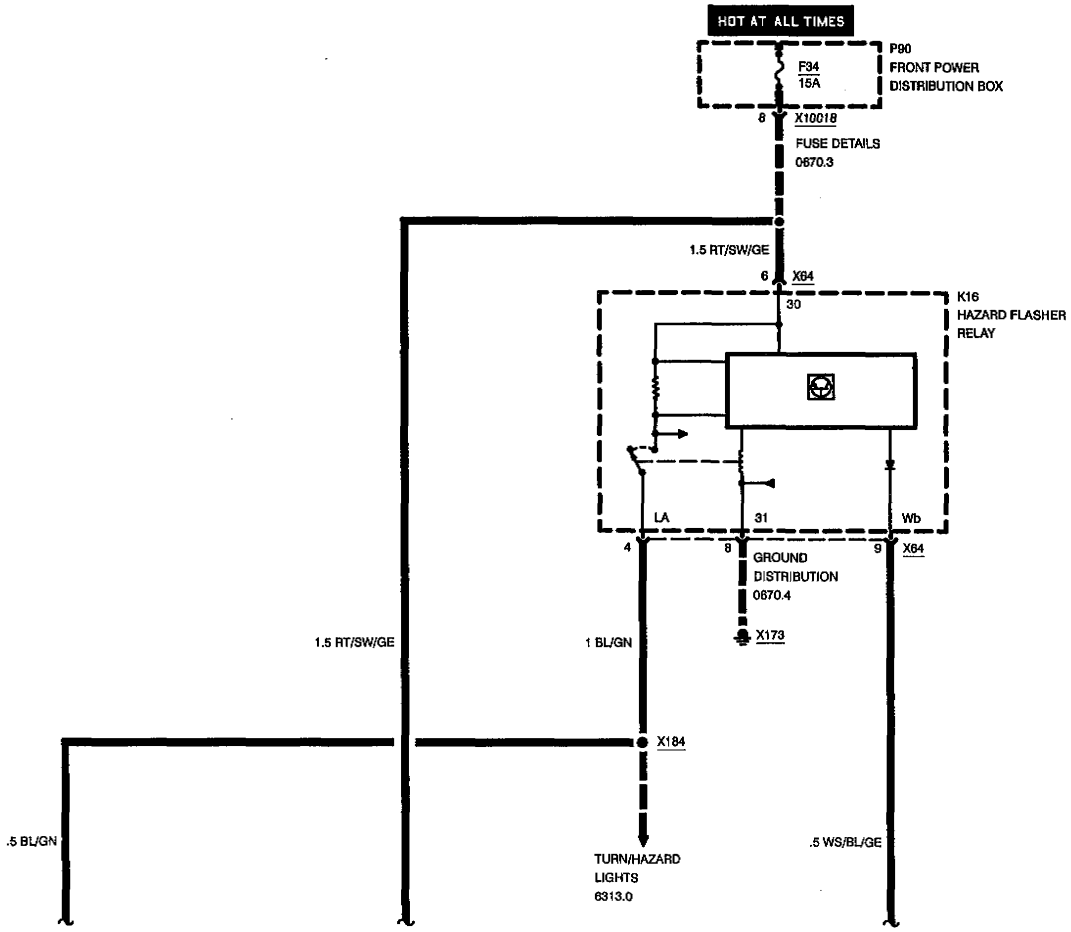


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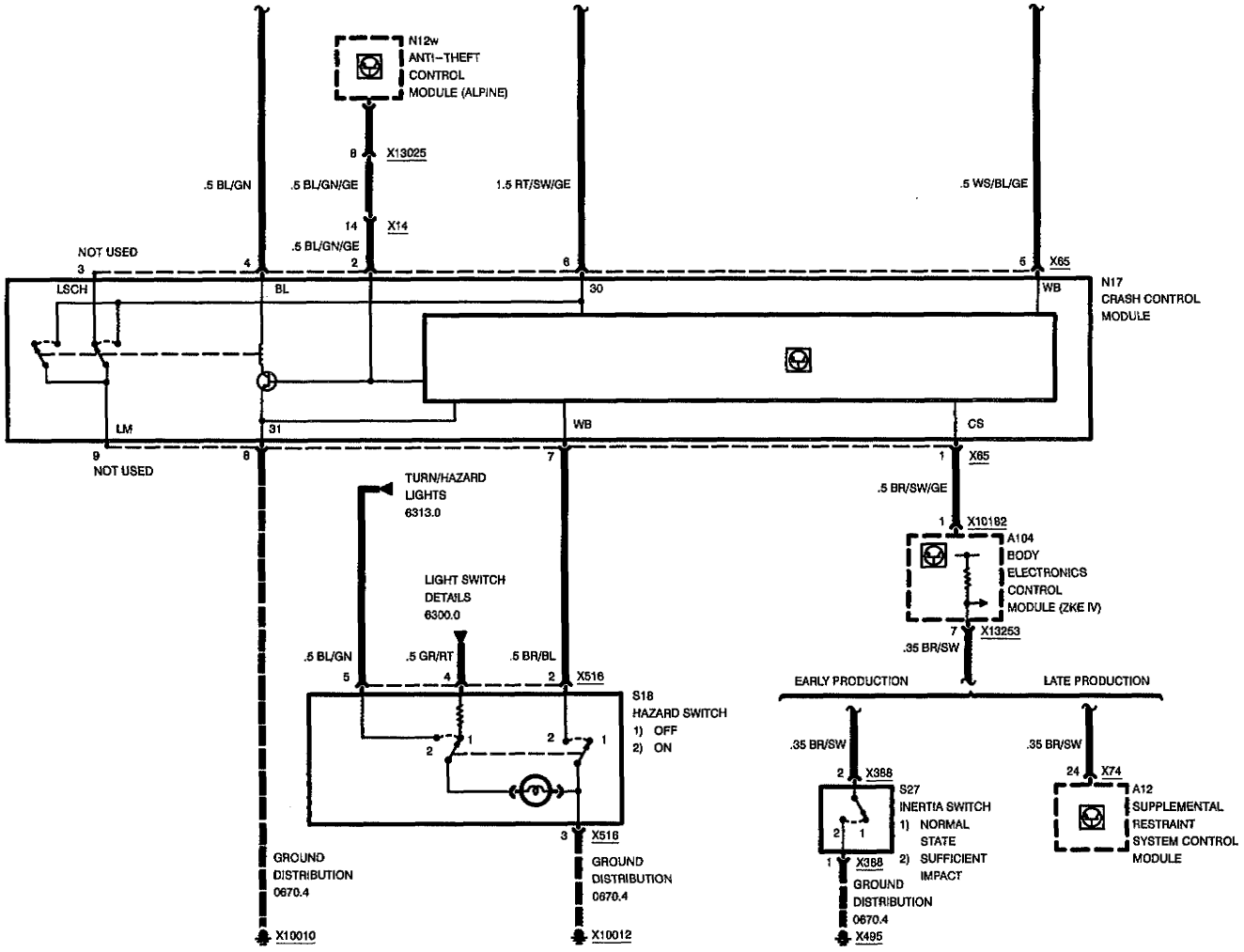


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CRASH CONTROL MODULE



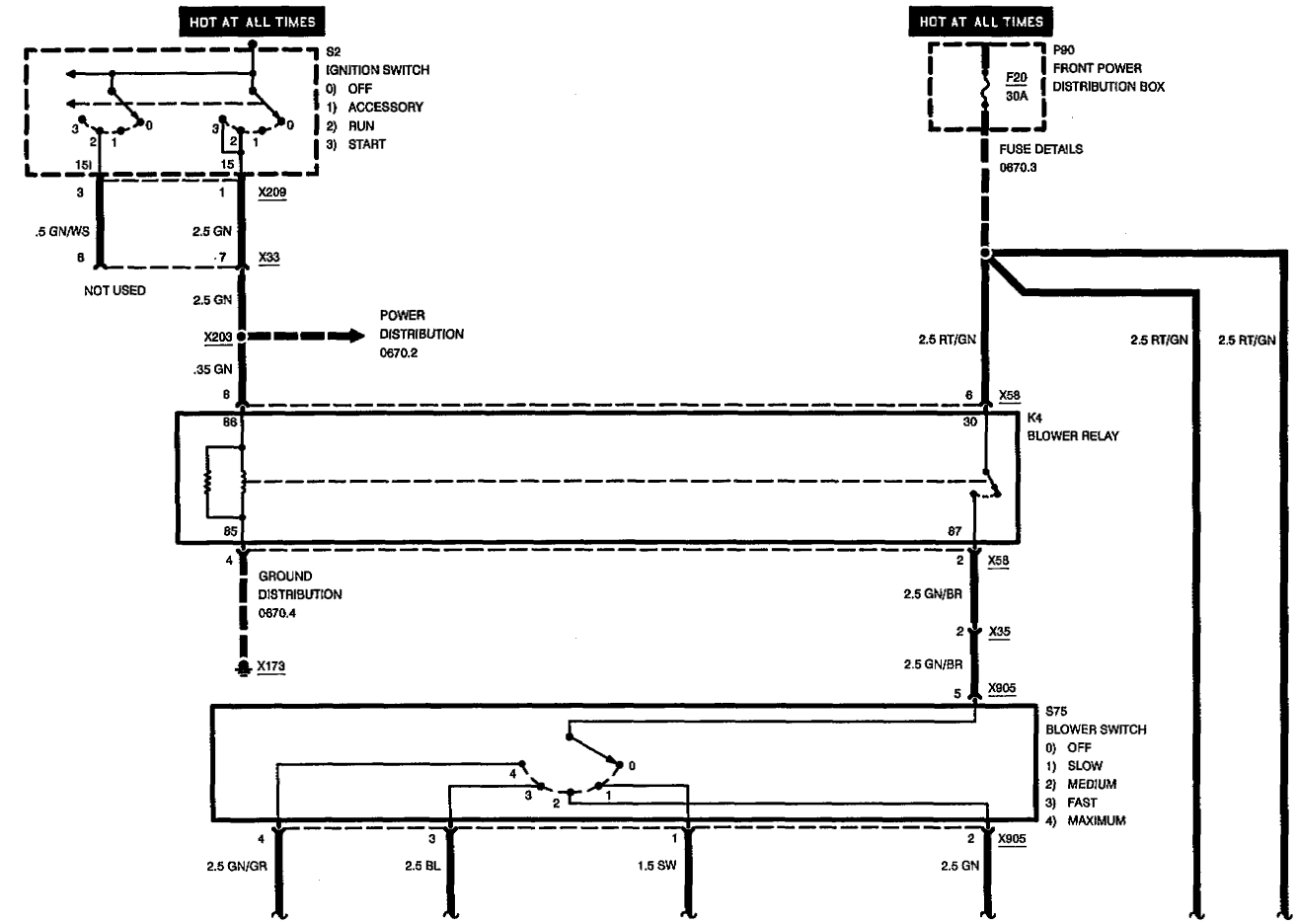
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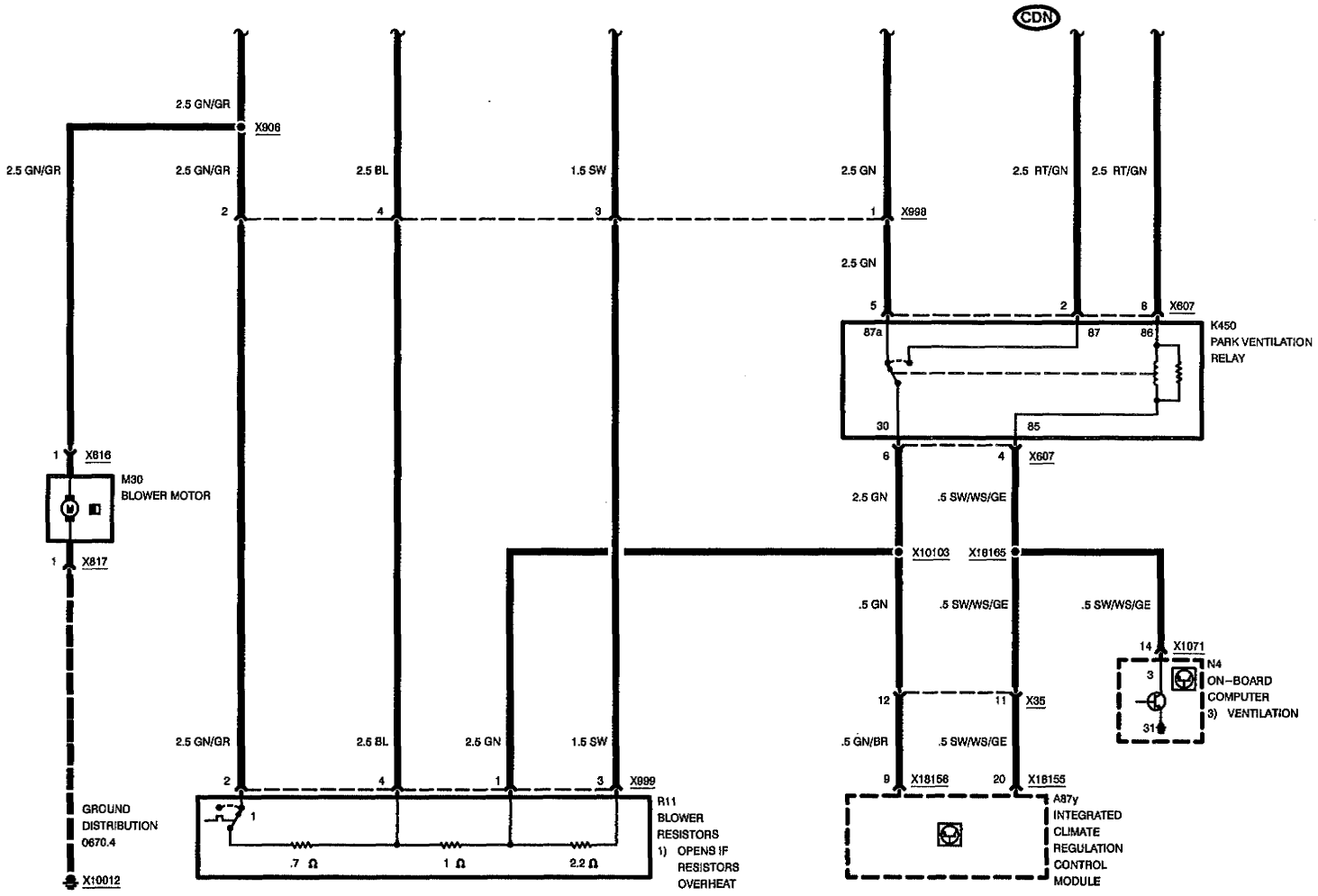
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PARK VENTILATION WITH IHKR

CDN

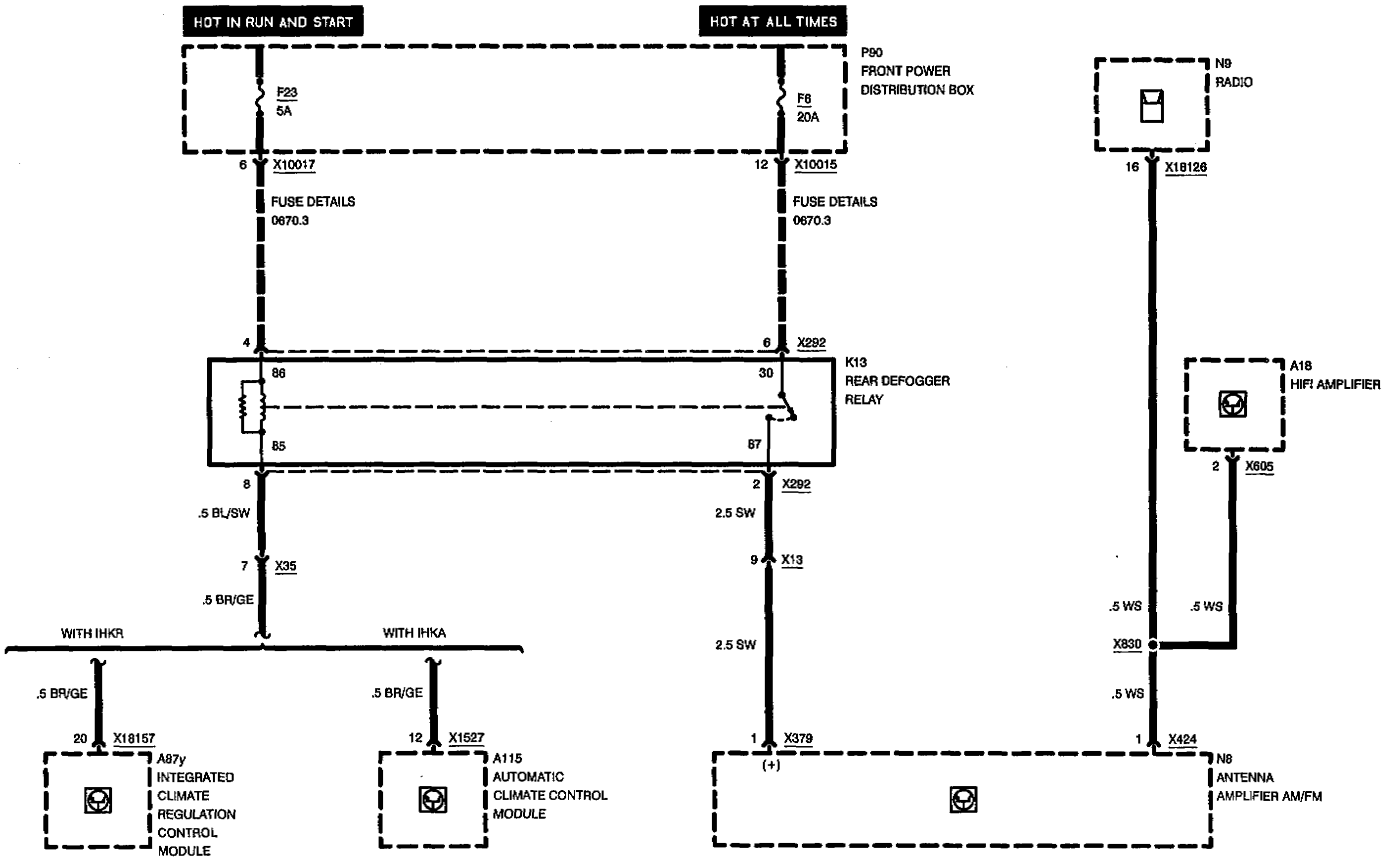


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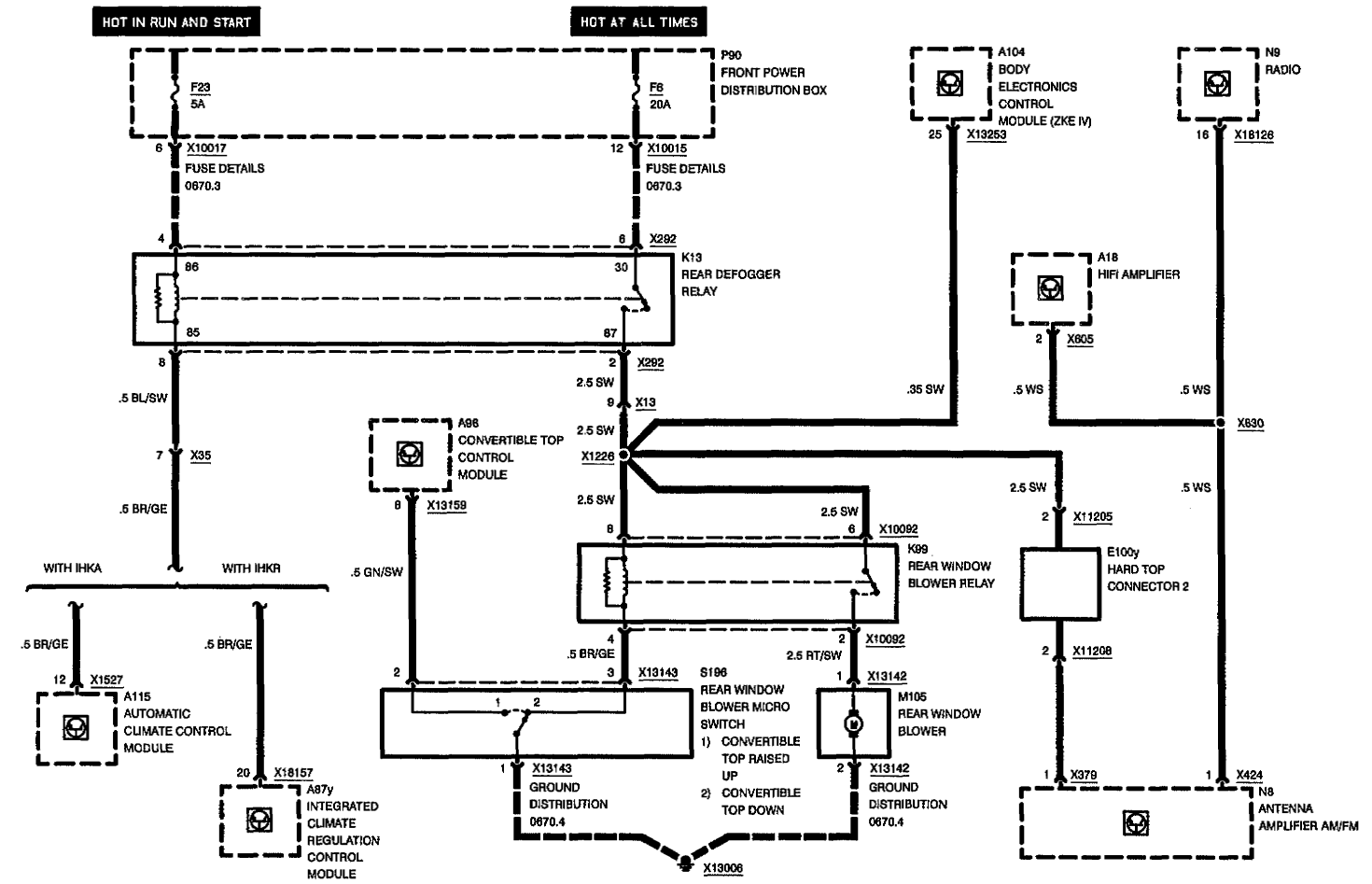
REAR WINDOW DEFOGGER/ANTENNA



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REAR WINDOW DEFOGGER/ANTENNA

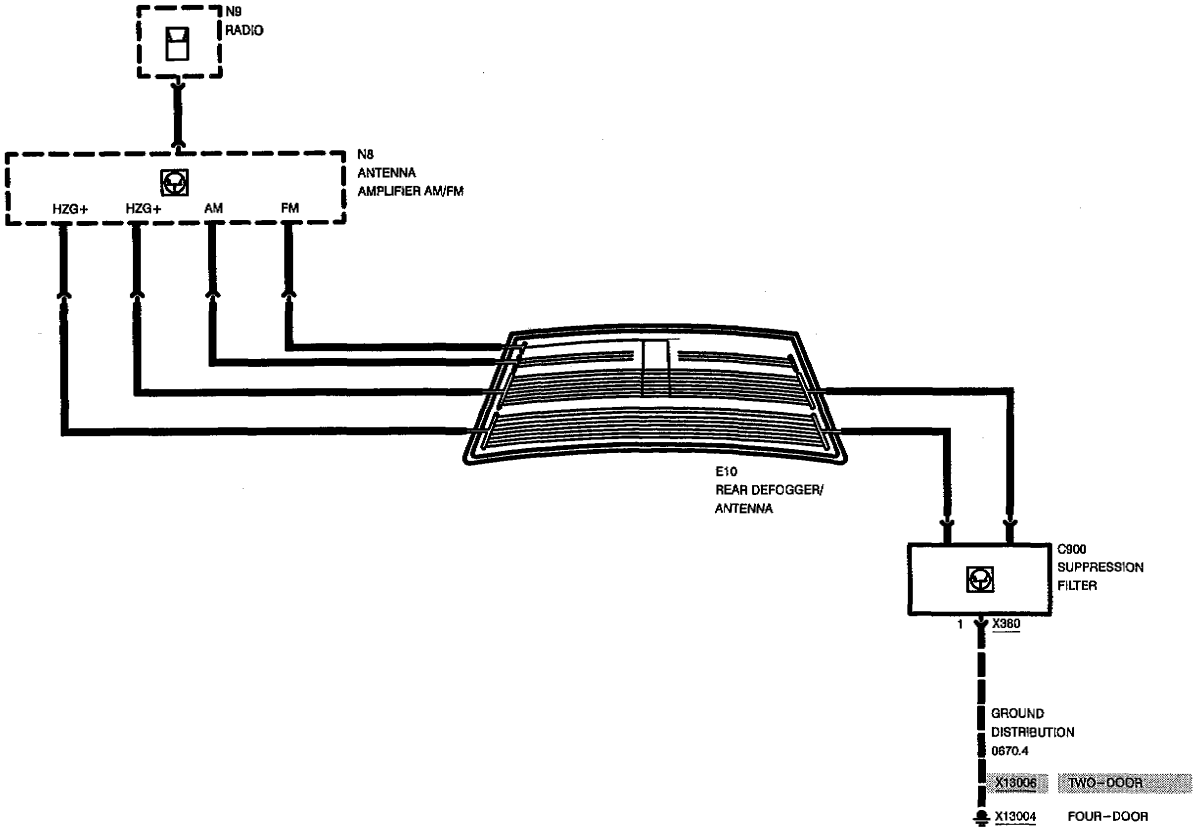
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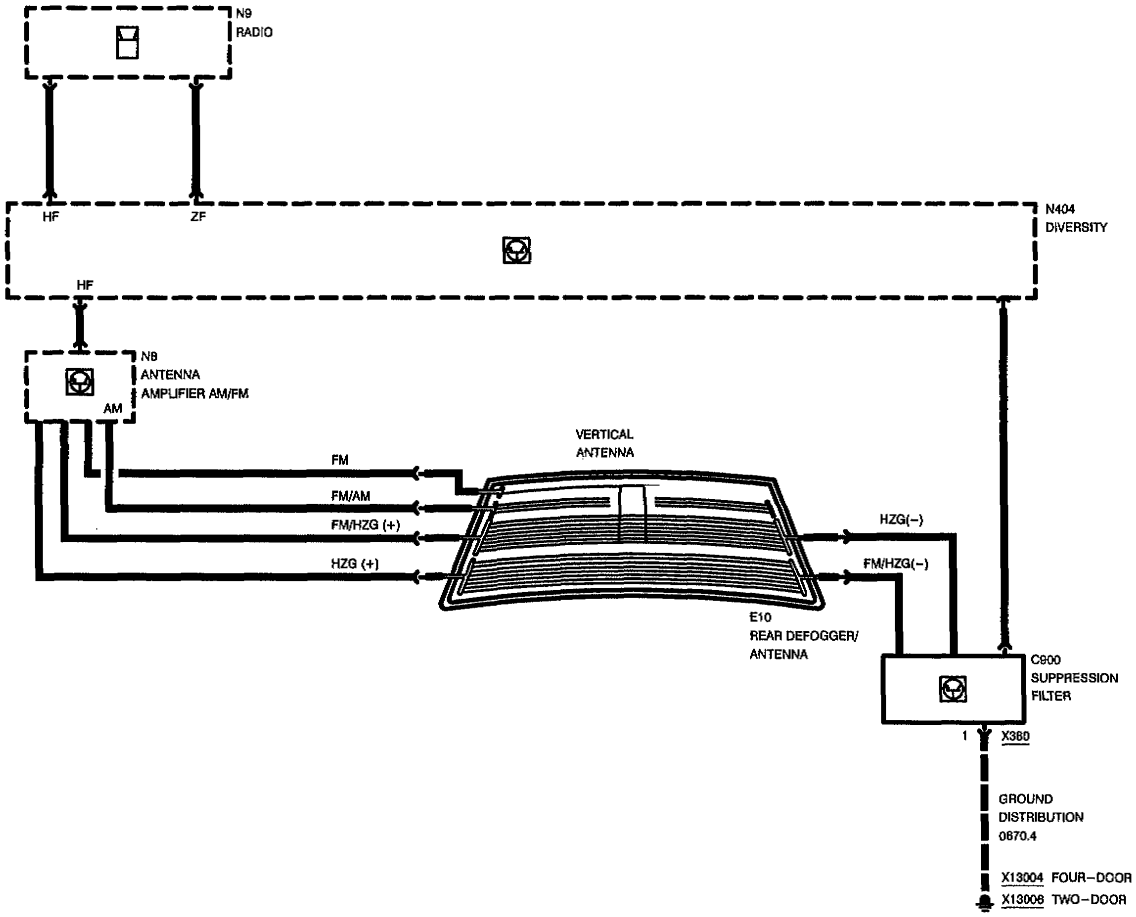
REAR WINDOW ANTENNA



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REAR WINDOW DEFOGGER/ANTENNA

3–ANTENNA–DIVERSITY

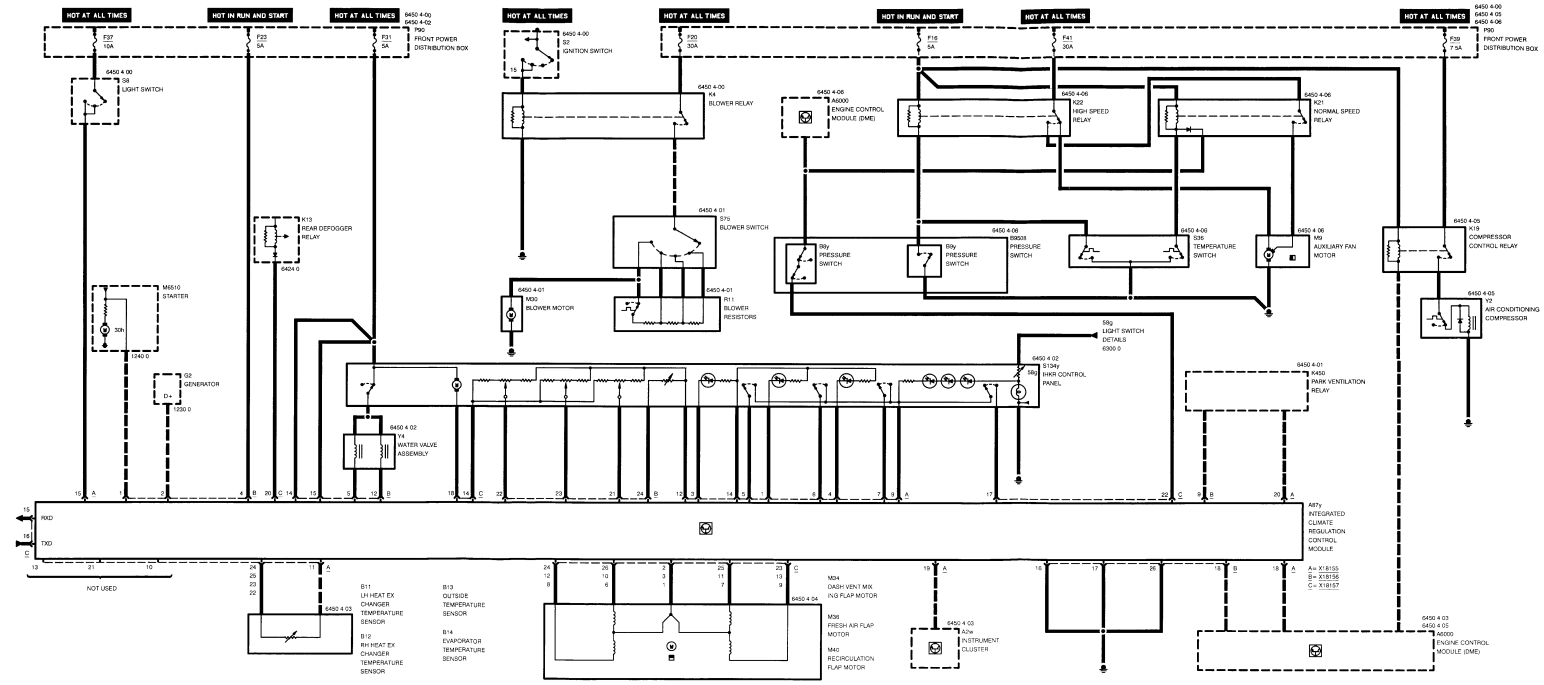


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Pin Assignments

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

X18155

Pin	Type	Description/Function	Connection
1	A	Function light, air recirculation	IHKR control panel
2		Not used	
3	A	Function light, rear window defogger	IHKR control panel
4	A	Function light, air conditioning	IHKR control panel
5	E	Rear window defogger switch	IHKR control panel
6	E	Air circulation switch	IHKR control panel
7	E	Air conditioning switch	IHKR control panel
8		Not used	
9	A	Ground for rear window defogger switch, air recirculation switch, air conditioning switch, electric flaps switch, and function lights	IHKR control panel
10		Not used	
11	A	Ground for temperature sensors	Various temperature sensors
12	A	Ground for rotary switches and interior temperature sensor	IHKR control panel
13		Not used	
14	(USA) E	Voltage supply for function lights	IHKR control panel
15	E	Terminal 58g	Light switch
16		Not used	
17		Not used	
18	E	Crankshaft position/RPM speed signal TD	Engine control module (DME)
19	A	Vehicle speed	Instrument cluster
20	E	Independent ventilation	Park heating/ventilation relay
21		Not used	
22	A/E	Evaporator temperature	Evaporator temperature sensor

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
23	A/E	Outside temperature	Outside temperature sensor
24	A/E	Heater temperature, left	Left heat exchanger temperature sensor
25	A/E	Heater temperature, right	Right heat exchanger temperature sensor
26		Not used	

X18156

Pin	Type	Description/Function	Connection
1	E	Terminal 30h	Starter, terminal 30h
2	E	Terminal 61	Generator
3		Not used	
4	E	Voltage supply, terminal 15	Front power distribution box, fuse 23
5	A	Left water valve activation	Water valve assembly
6		Not used	
7		Not used	
8		Not used	
9		Terminal 15 (independent ventilation only)	Park heating/ventilation relay
10		Not used	
11		Not used	
12	A	Right water valve activation	Water valve assembly
13		Not used	
14	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
15	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
16	M	Ground for load circuit	Ground point
17	M	Ground for load circuit	Ground point
18	A	Engine control module (DME) activation (anti-stall)	Engine control module (DME)
19		Not used	
20		Not used	
21	E	Nominal temperature valve, right	IHKR control panel
22	E	Nominal temperature valve, left	IHKR control panel
23	E	Nominal air flow valve	IHKR control panel

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
24	A/E	Interior temperature sensor	IHKR control panel
25		Not used	
26	M	Ground for electronics	Ground point

X18157

Pin	Type	Description/Function	Connection
1	A	Voltage supply for recirculation flap motor	Recirculation flap motor
2	A	Voltage supply for dash vent mixing flap motor	Dash vent mixing flap motor
3	A	Voltage supply for fresh air flap motor	Fresh air flap motor
4		Not used	
5		Not used	
6	A	Recirculation flap motor activation	Recirculation flap motor
7	A	Recirculation flap motor activation	Recirculation flap motor
8	A	Recirculation flap motor activation	Recirculation flap motor
9	A	Recirculation flap motor activation	Recirculation flap motor
10	A	Fresh air flap motor activation	Fresh air flap motor
11	A	Fresh air flap motor activation	Fresh air flap motor
12	A	Fresh air flap motor activation	Fresh air flap motor
13	A	Fresh air flap motor activation	Fresh air flap motor
14	A	Voltage supply for rotary switches	IHKR control panel
15	A	RxD diagnostic data line	Data link connector
16	E/A	TxD diagnostic data line	Data link connector
17	E	Ventilation flap switch	IHKR control panel
18	A	Interior sensor blower activation	IHKR control panel
19		Not used	
20	A	Rear window defogger activation	Rear defogger relay, terminal 86b
21		Not used	
22	A	A/C compressor activation	Pressure switch
23	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
24	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

E = Input, A = Output, M = Ground

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Pin Assignments

Pin	Type	Description/Function	Connection
25	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
26	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

E = Input, A = Output, M = Ground

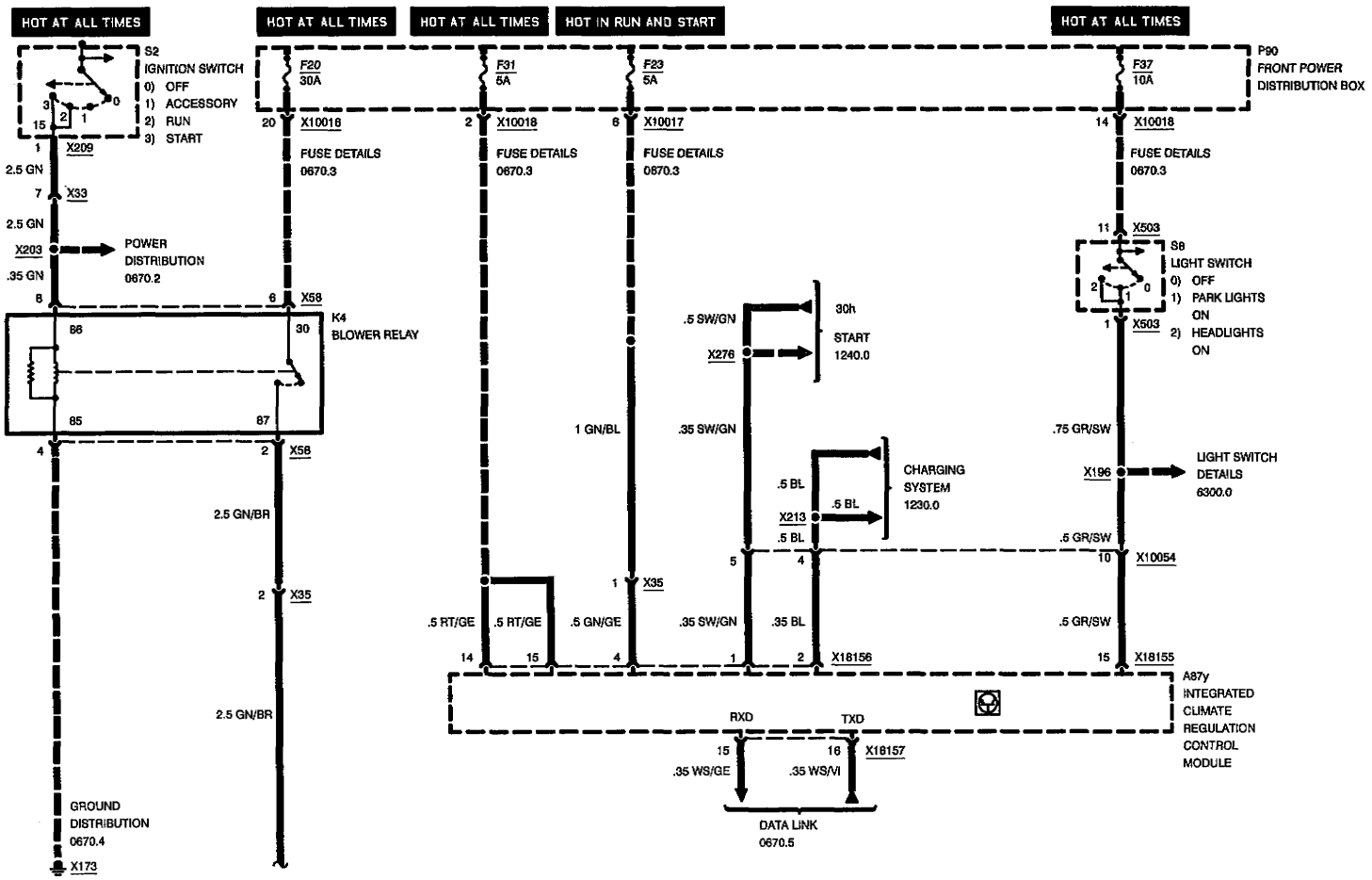
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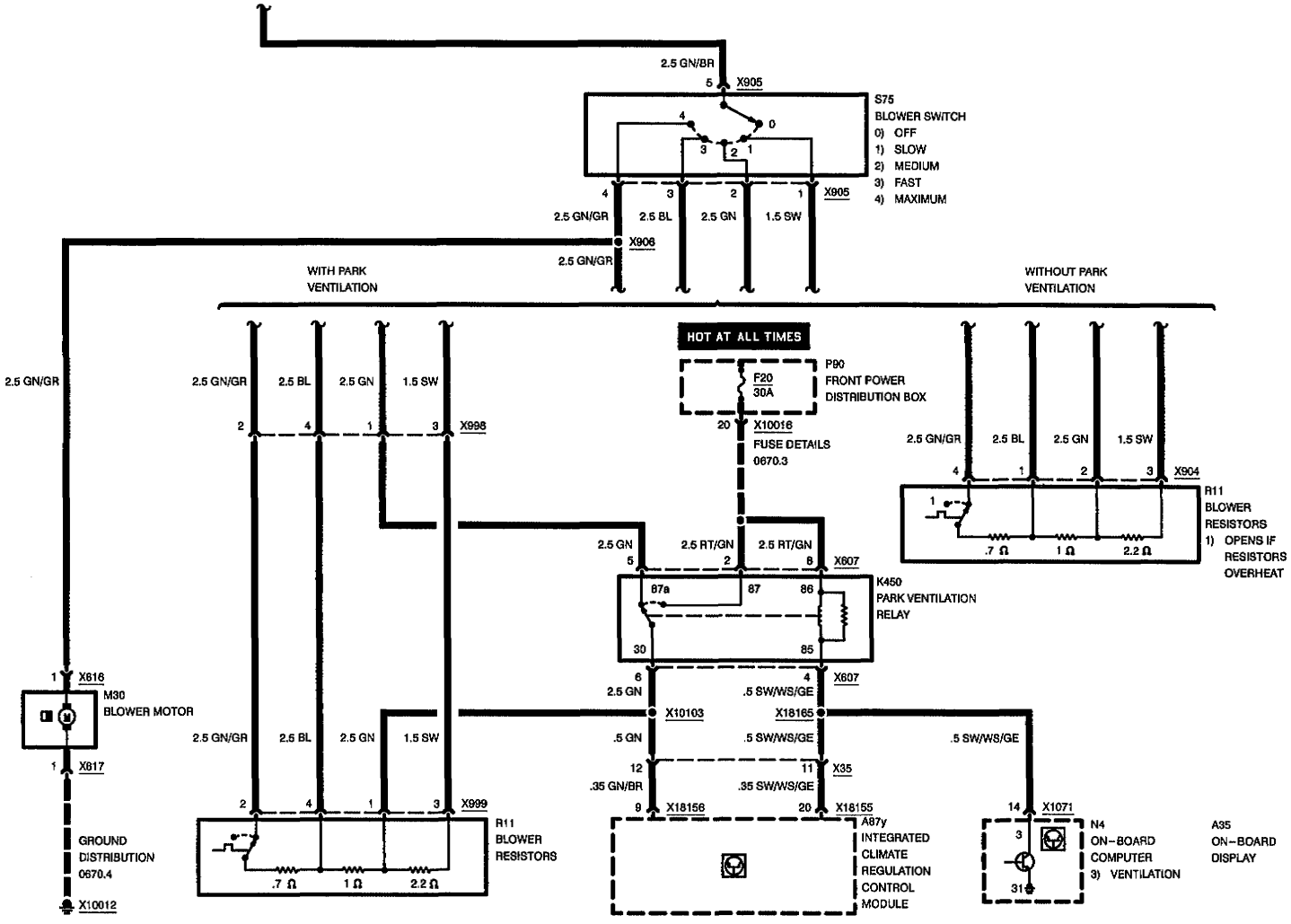
INTEGRATED CLIMATE REGULATION (IHKR E36)

EARLY PRODUCTION

POWER, BLOWER CONTROLS



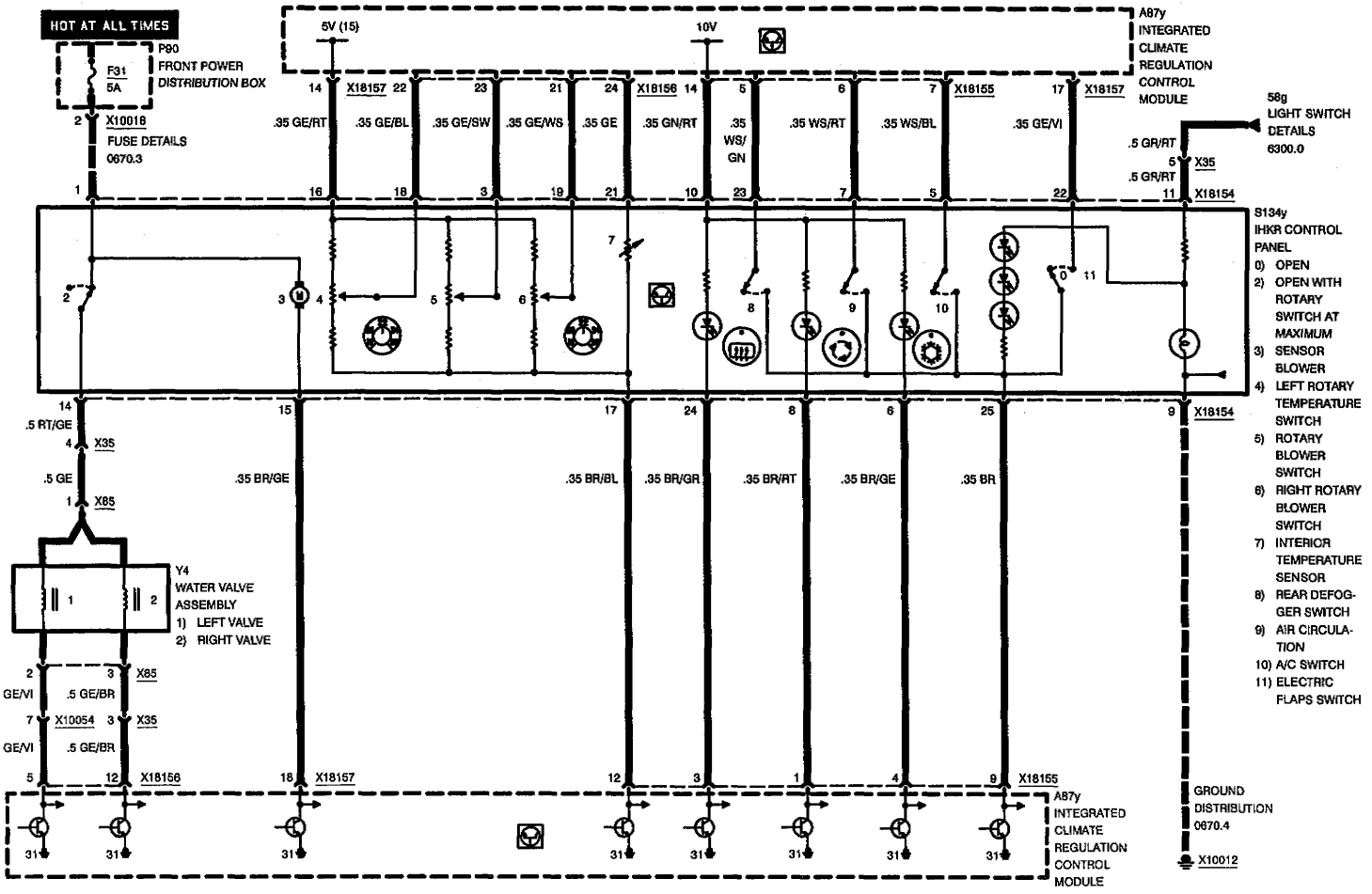
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INTEGRATED CLIMATE REGULATION (IHKR E36)

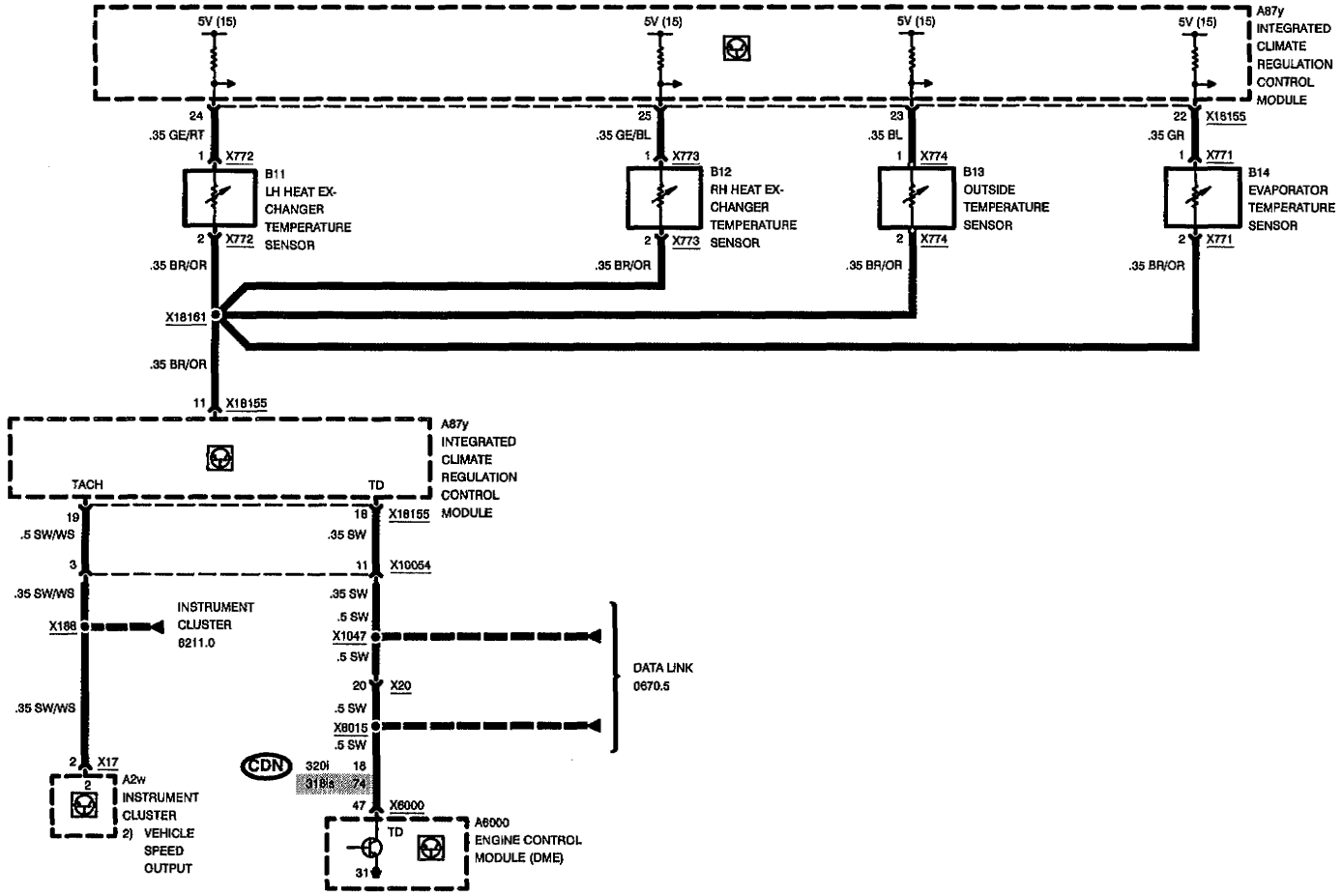
CONTROL MODULE, WATER VALVES



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INTEGRATED CLIMATE REGULATION (IHKR E36)

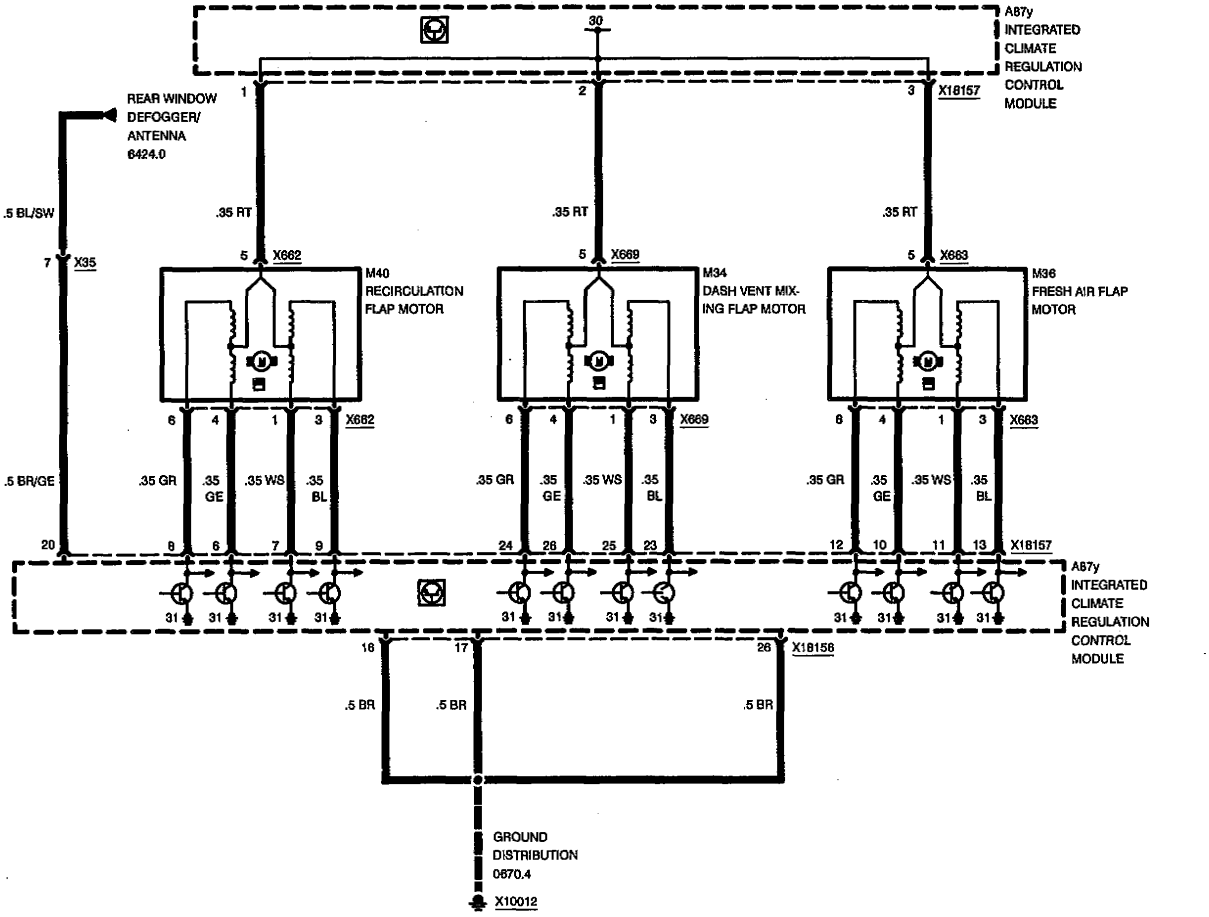
TEMPERATURE CONTROL



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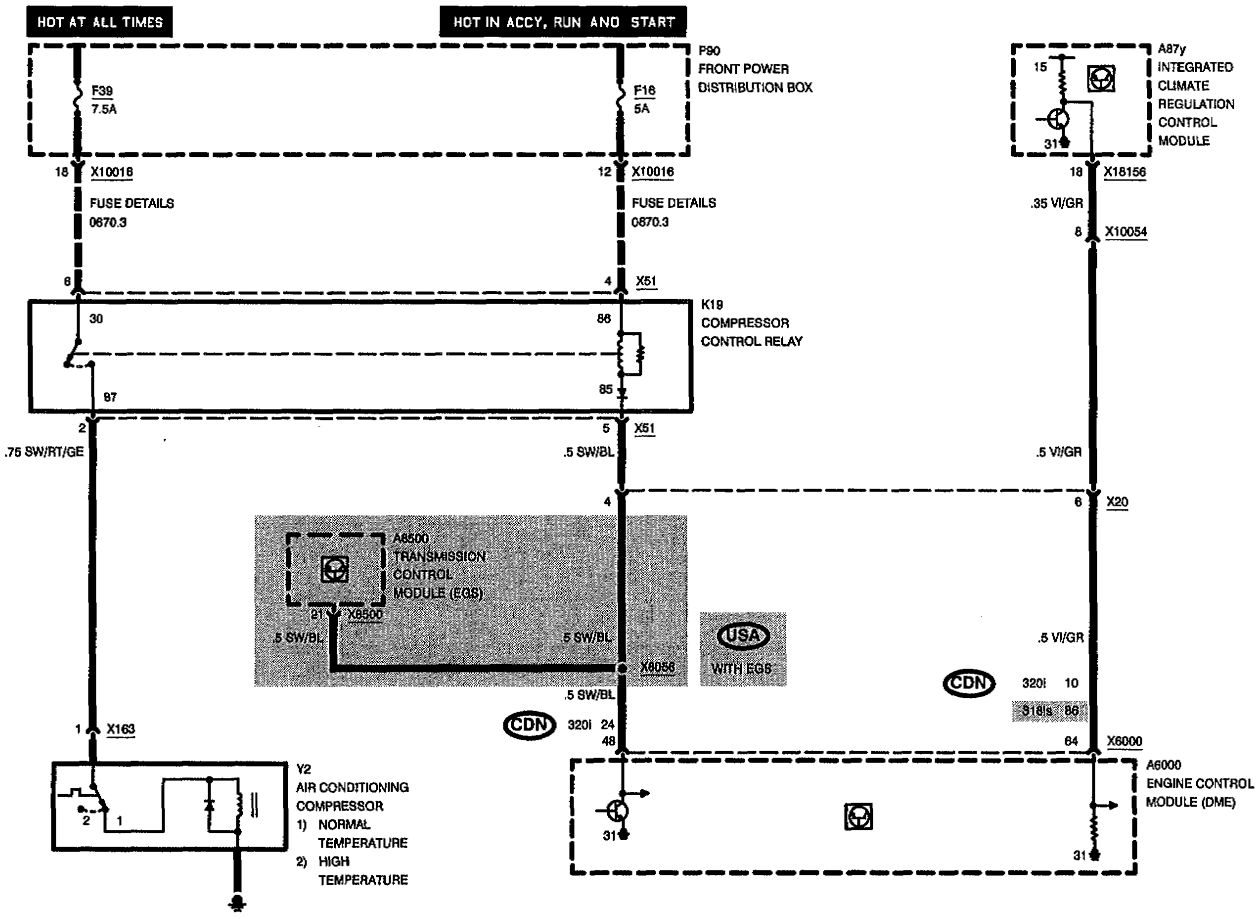
AIR DELIVERY



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INTEGRATED CLIMATE REGULATION (IHKR E36)

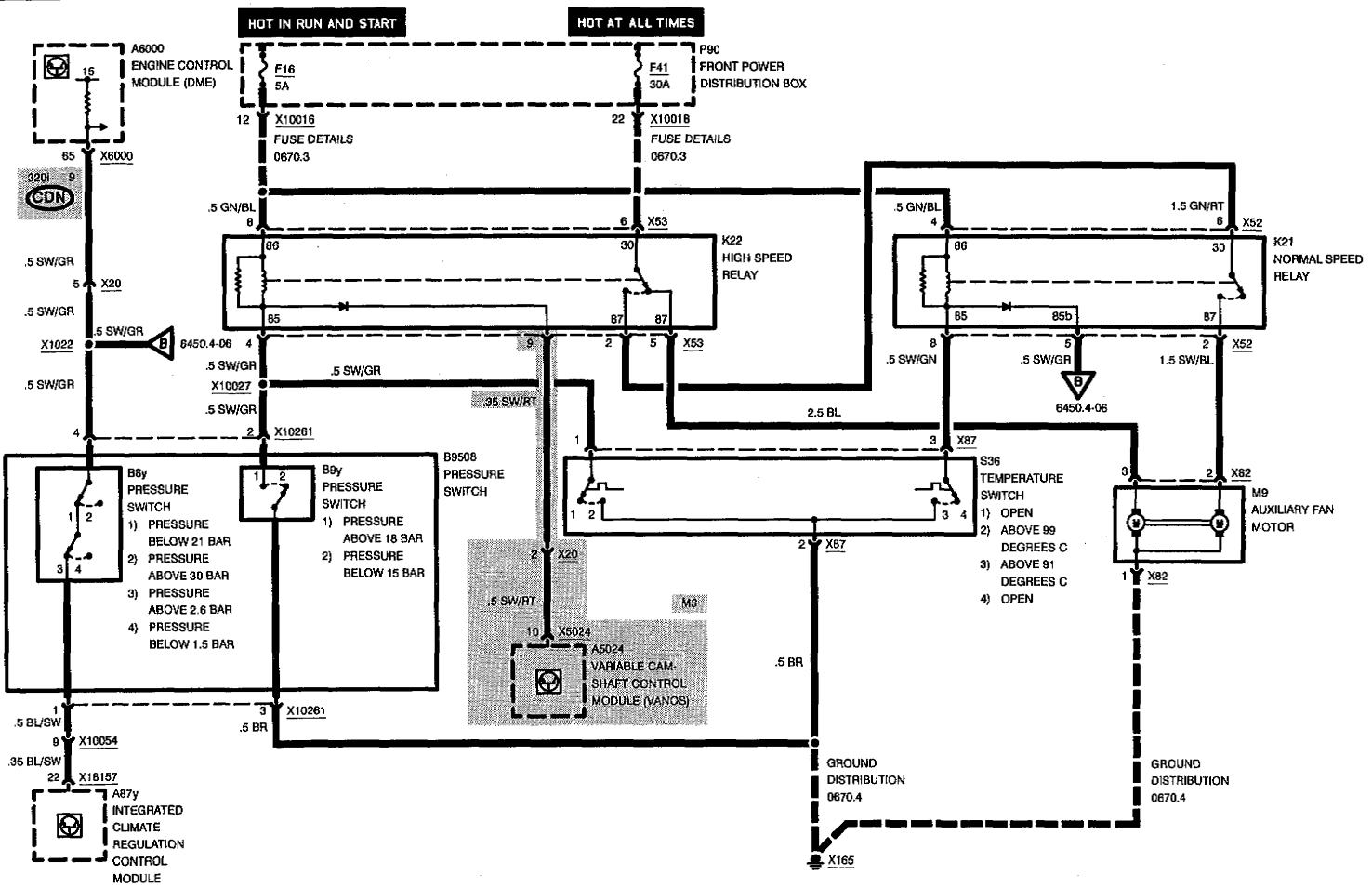
COMPRESSOR CONTROLS



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INTEGRATED CLIMATE REGULATION (IHKR E36)

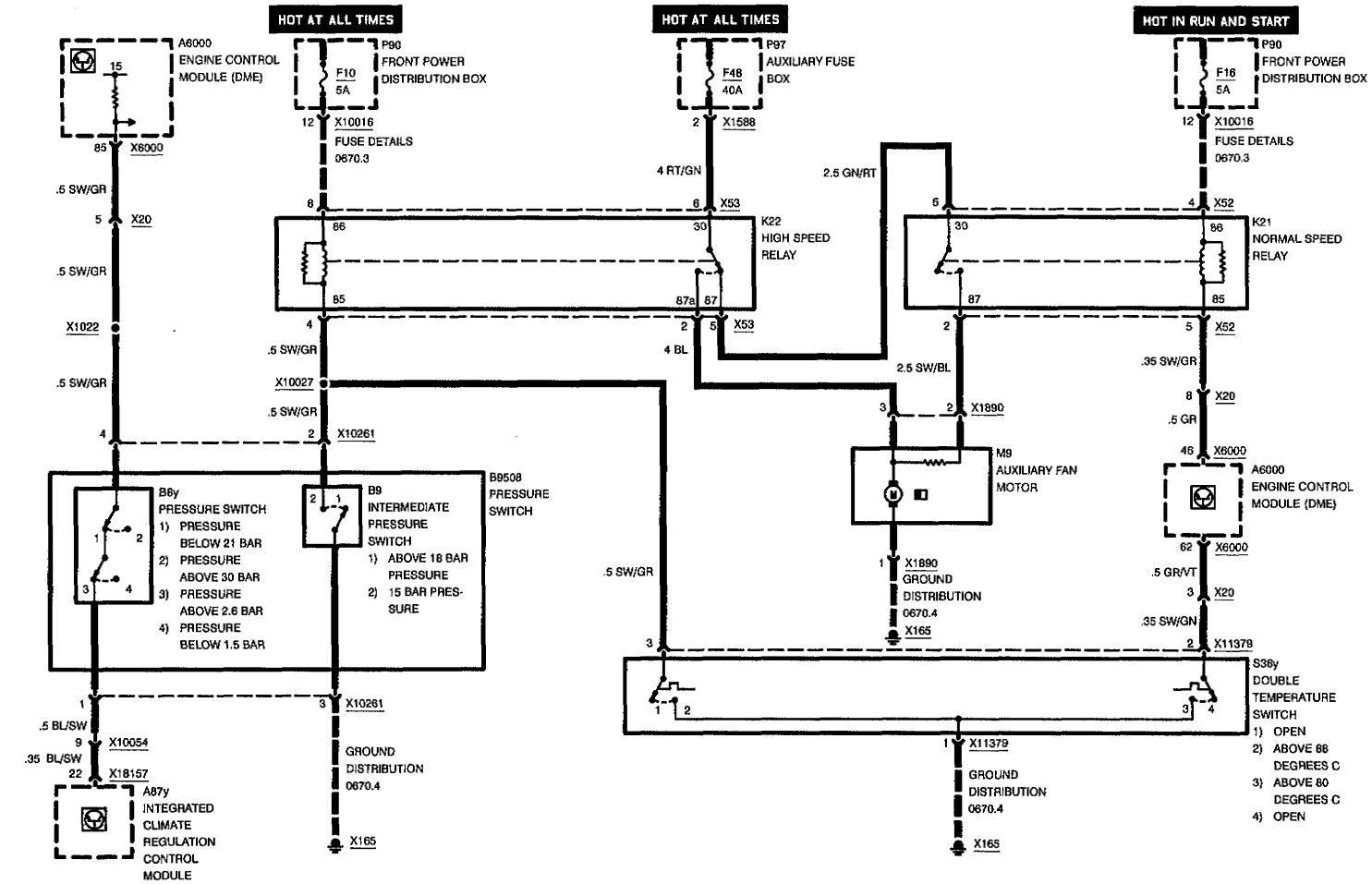
AUXILIARY FAN – 6–CYLINDER ENGINE



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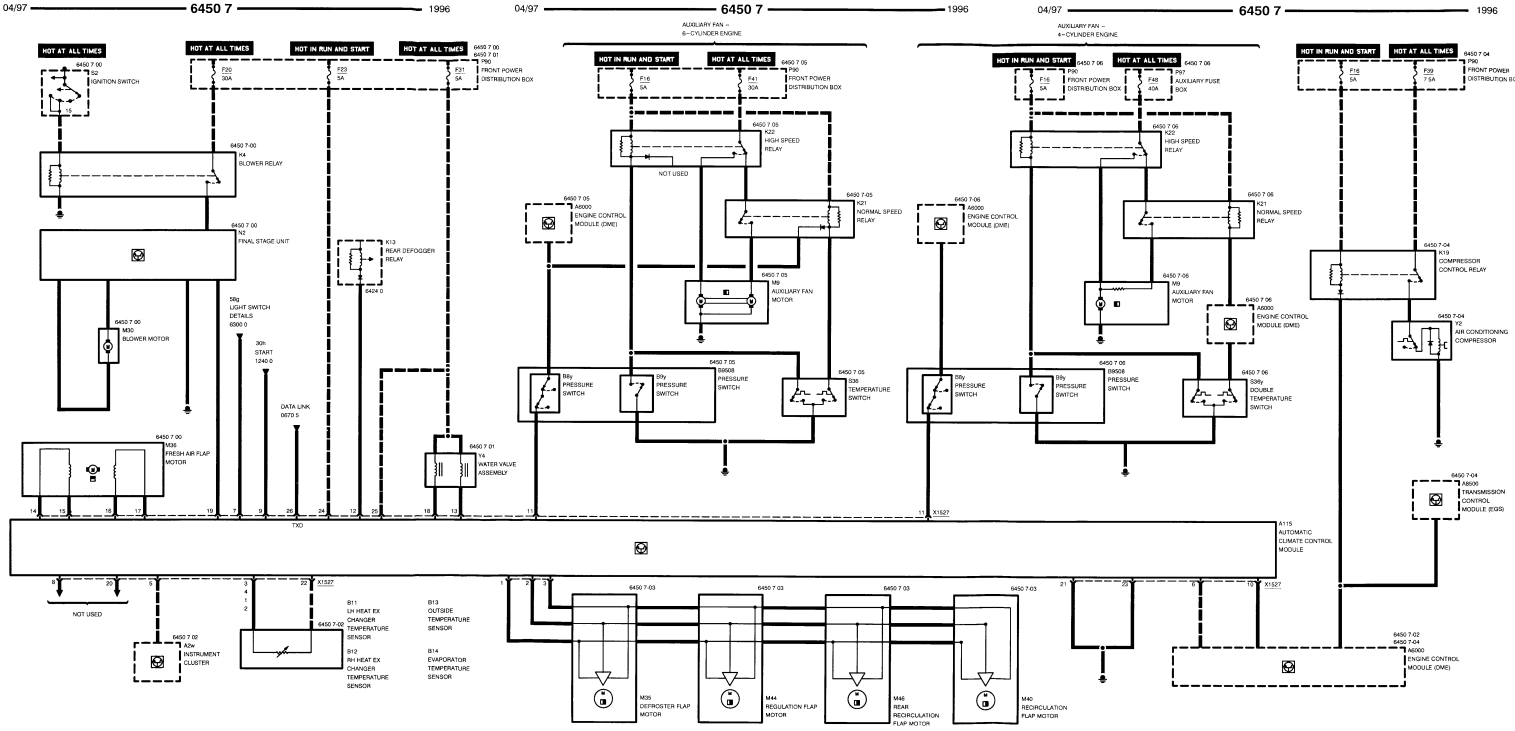
INTEGRATED CLIMATE REGULATION (IHKR E36)

AUXILIARY FAN – 4–CYLINDER ENGINE

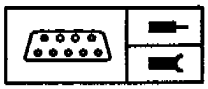


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Pin Assignments

X1527

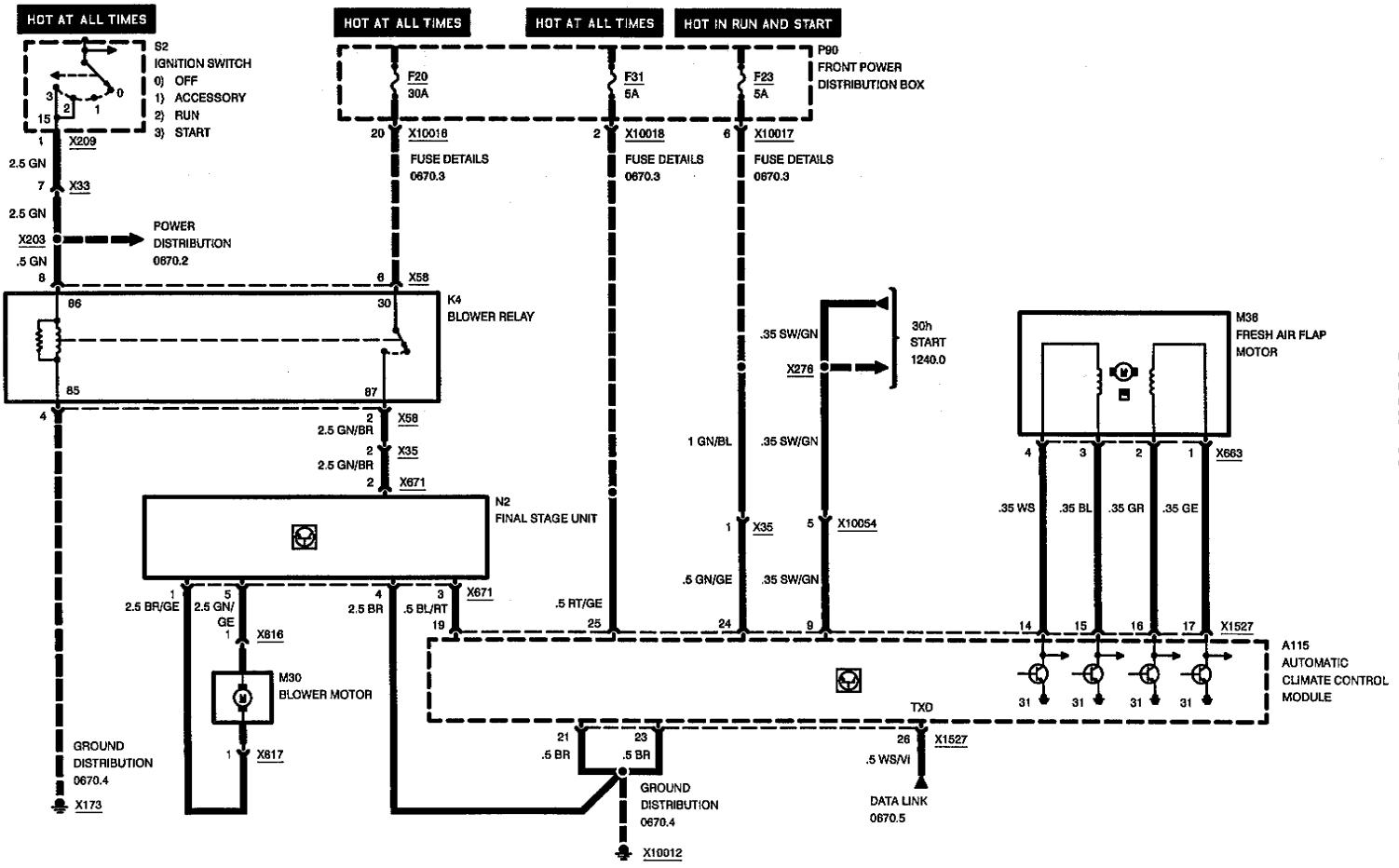
Pin	Type	Description/Function	Connection
1	E	Outside temperature	Outside temperature sensor
2	E	Evaporator temperature	Evaporator temperature sensor
3	E	Heater temperature, left	Left heat exchanger temperature sensor
4	E	Heater temperature, right	Right heat exchanger temperature sensor
5	E	Vehicle speed 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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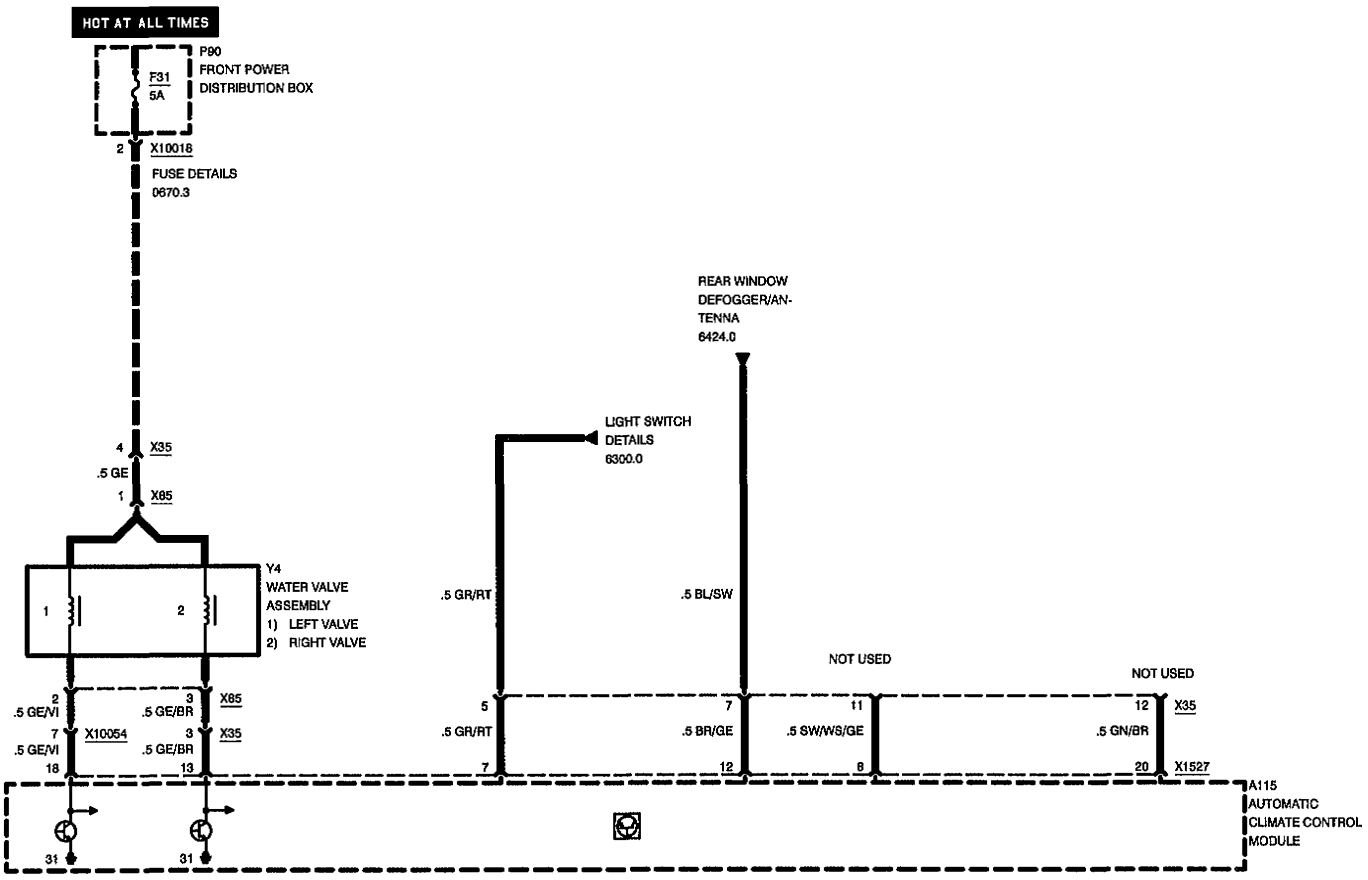
INTEGRATED CLIMATE REGULATION (IHKA E36) 318is, 328i, M3 LATE PRODUCTION

POWER, AIR FLOW CONTROL



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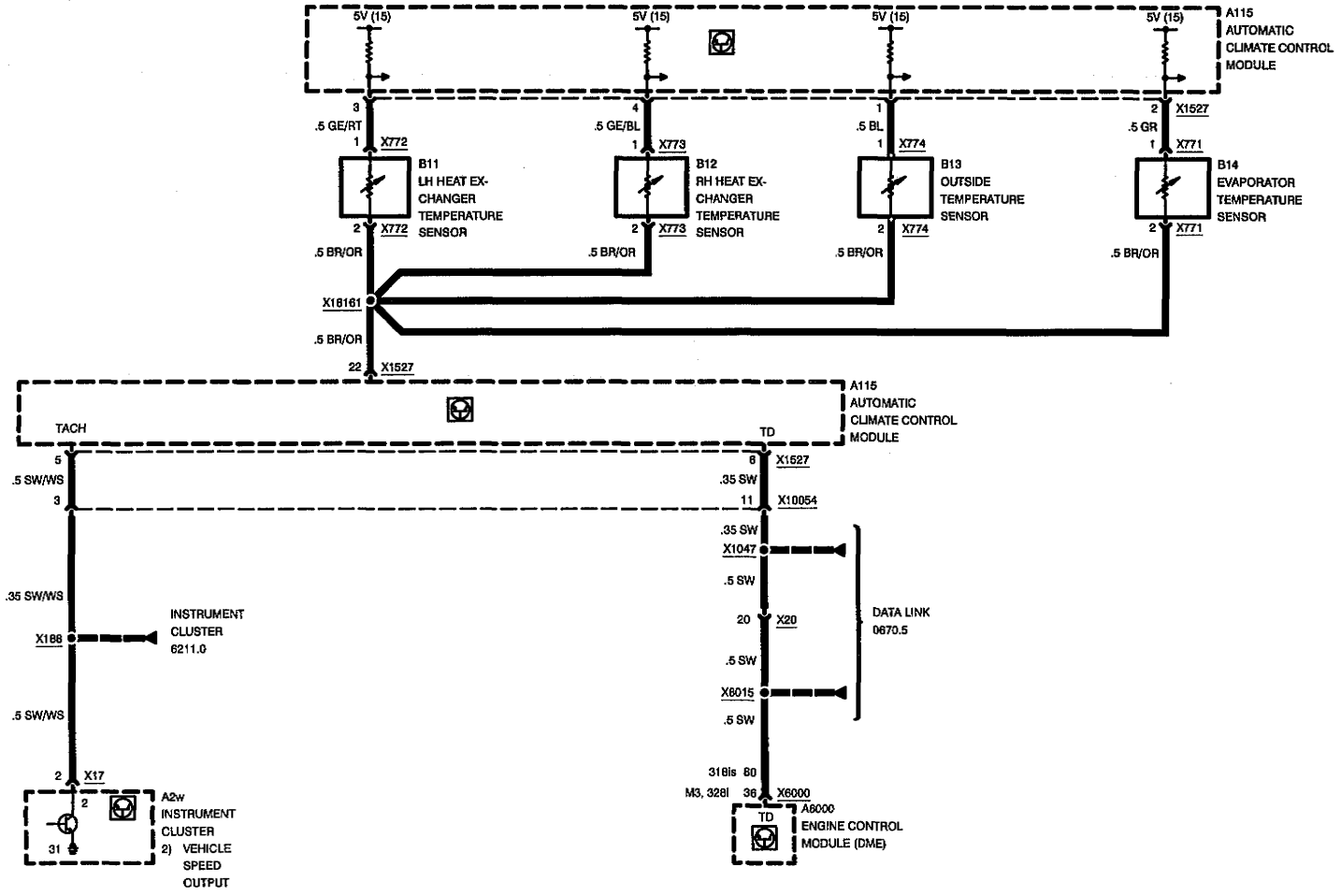
INTEGRATED CLIMATE REGULATION (IHKA E36) 318is, 328i, M3 LATE PRODUCTION



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INTEGRATED CLIMATE REGULATION (IHKA E36) 318is, 328i, M3 LATE PRODUCTION

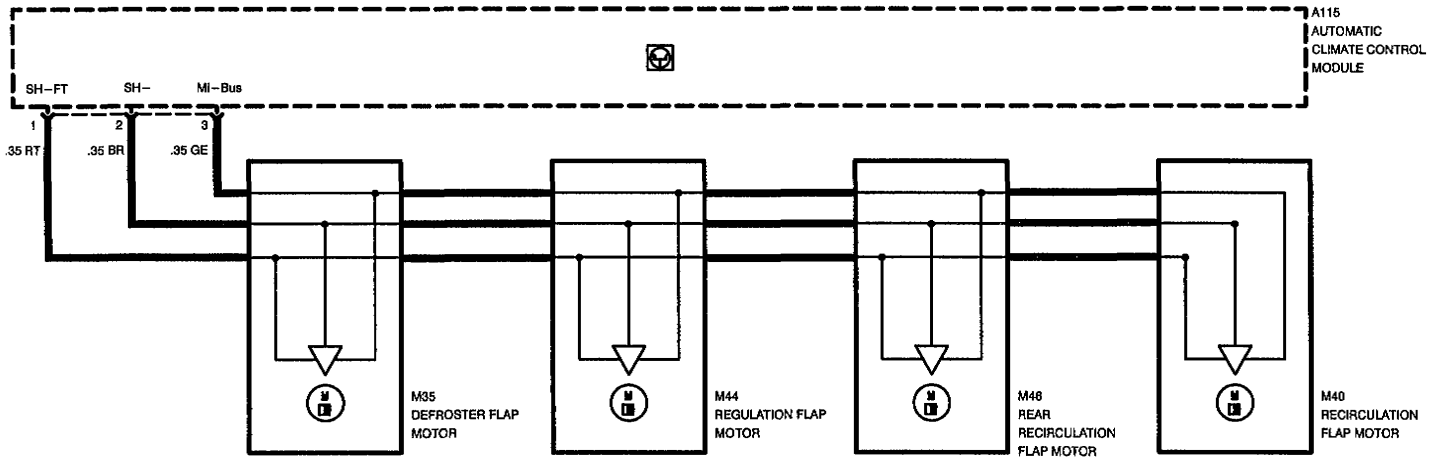
TEMPERATURE CONTROL



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INTEGRATED CLIMATE REGULATION (IHKA E36) 318is, 328i, M3 LATE PRODUCTION

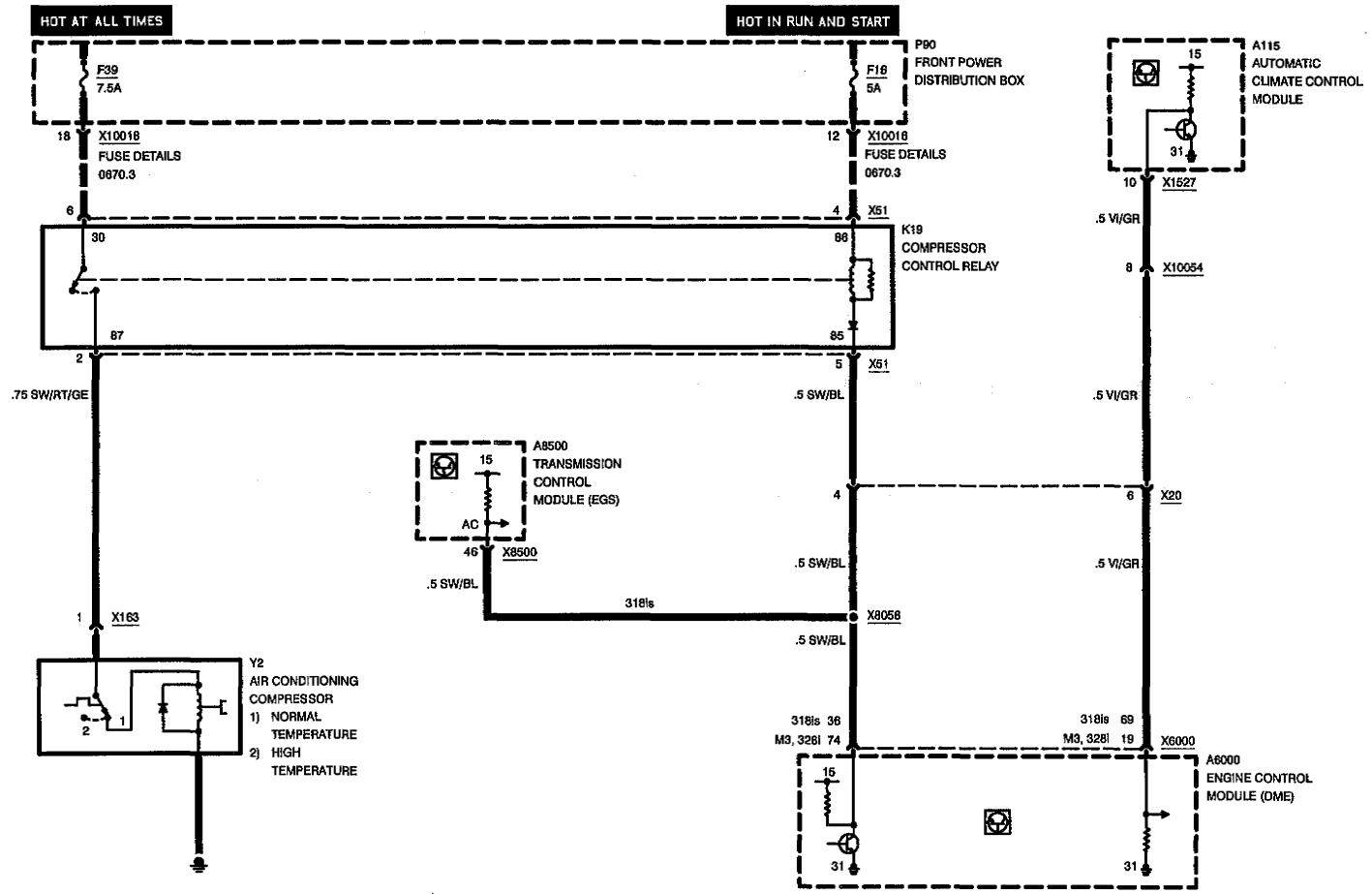
AIR DELIVERY



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INTEGRATED CLIMATE REGULATION (IHKA E36) 318is, 328i, M3 LATE PRODUCTION

COMPRESSOR CONTROLS

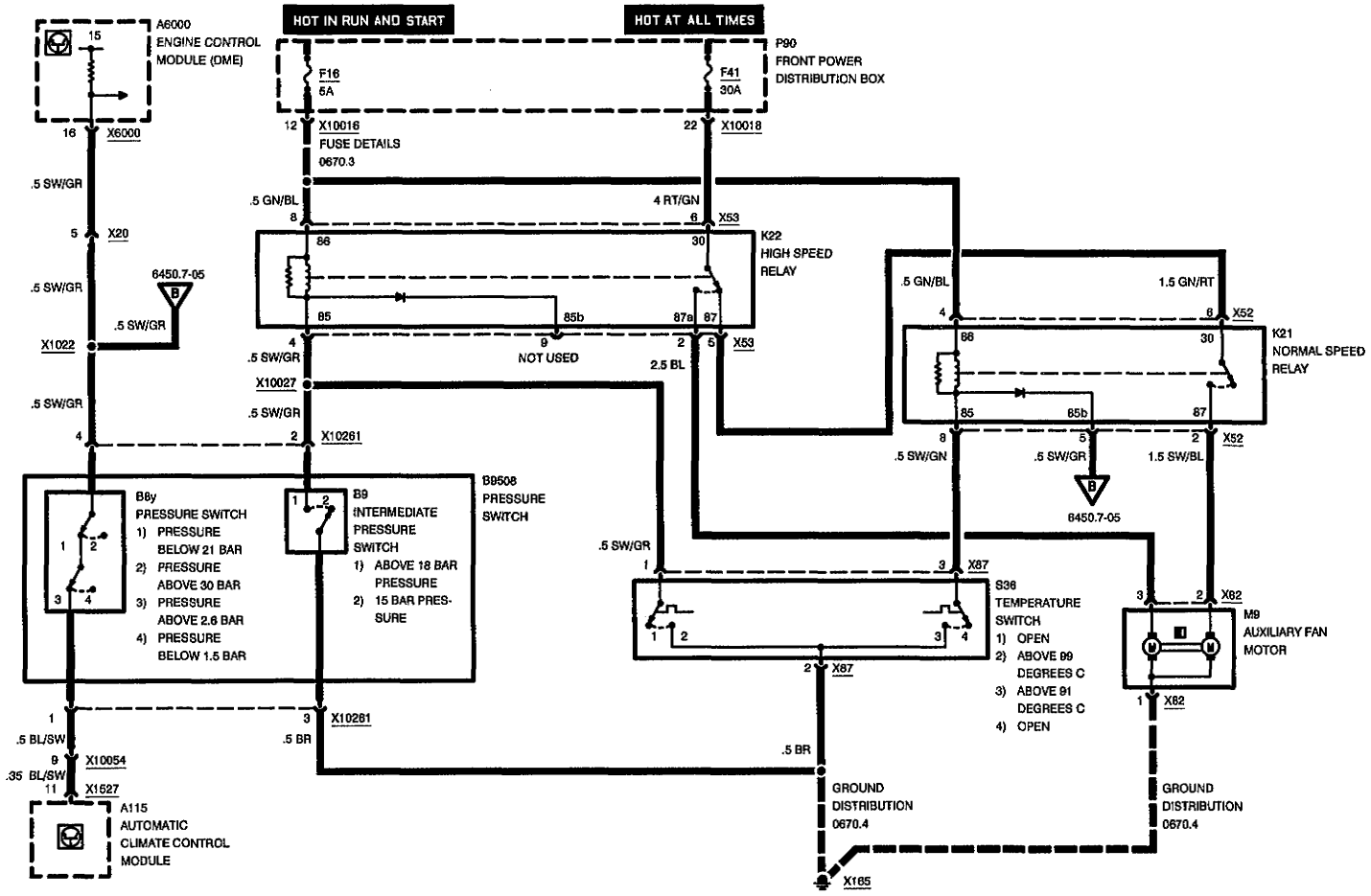


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INTEGRATED CLIMATE REGULATION (IHKA E36)

328i, M3 LATE PRODUCTION

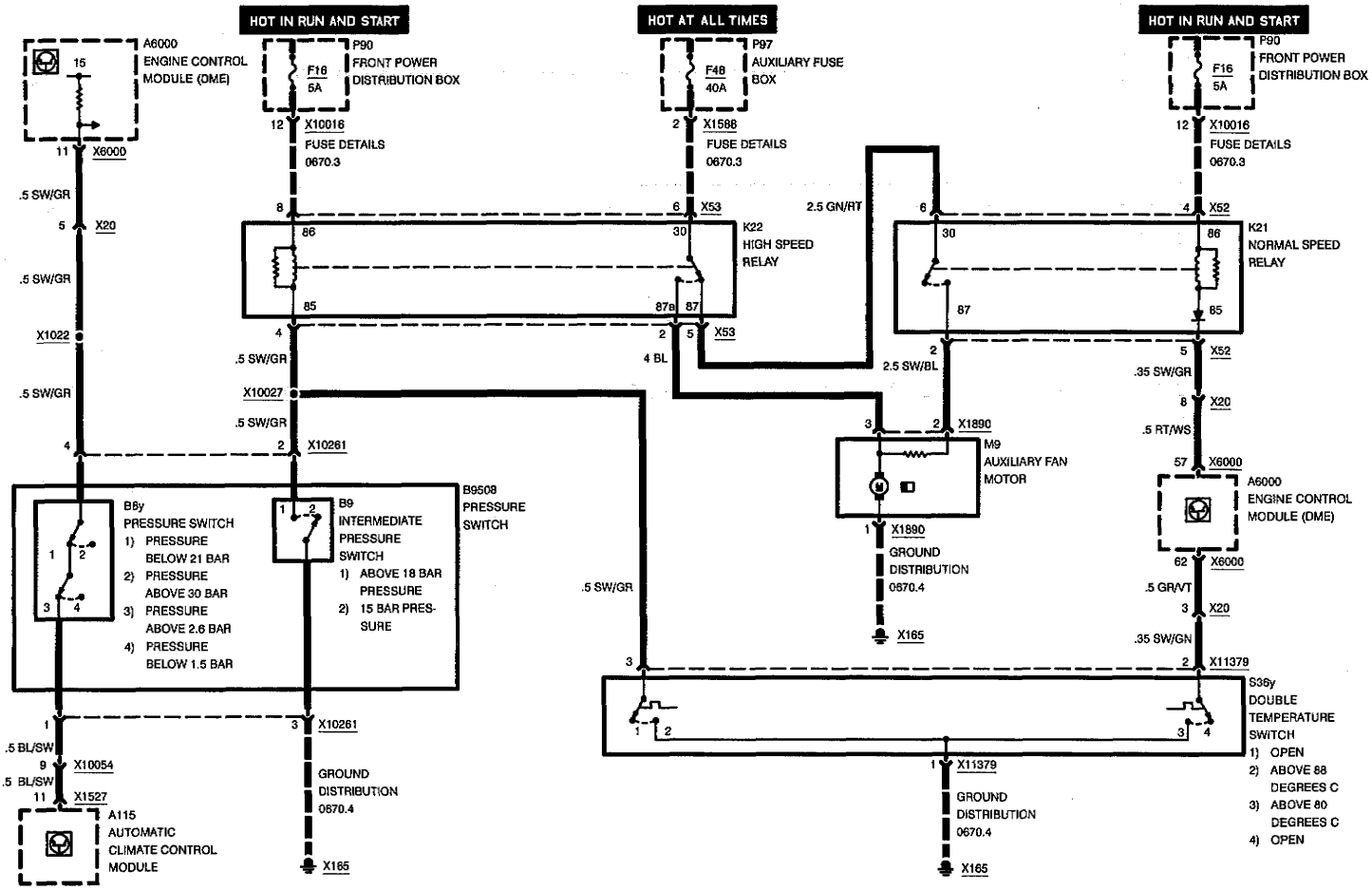
AUXILIARY FAN – 6–CYLINDER ENGINE



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INTEGRATED CLIMATE REGULATION (IHKA E36) 318is LATE PRODUCTION

AUXILIARY FAN – 4–CYLINDER ENGINE



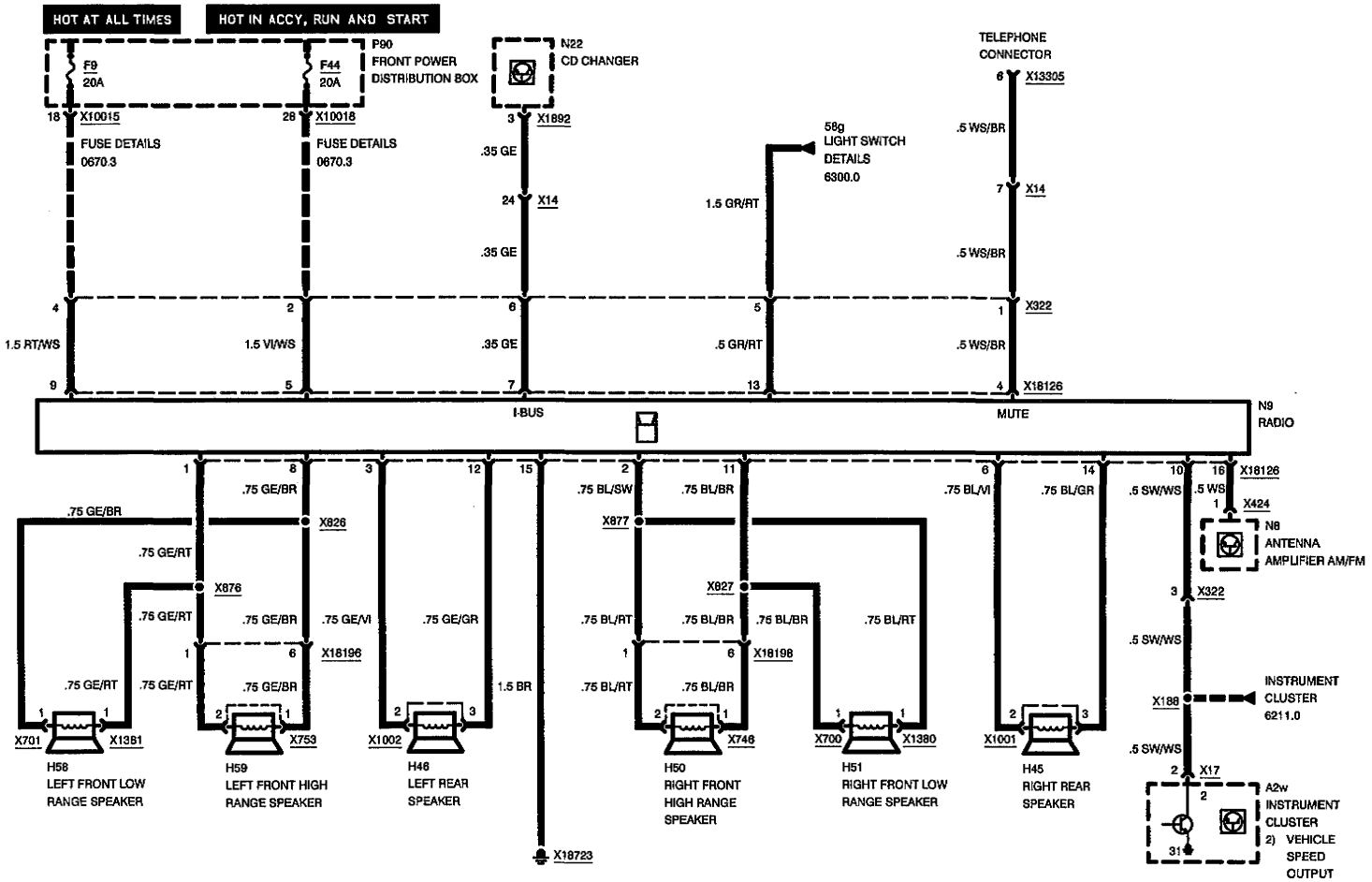
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RADIO/STEREO

STEREO, 6-SPEAKER SYSTEM

318is

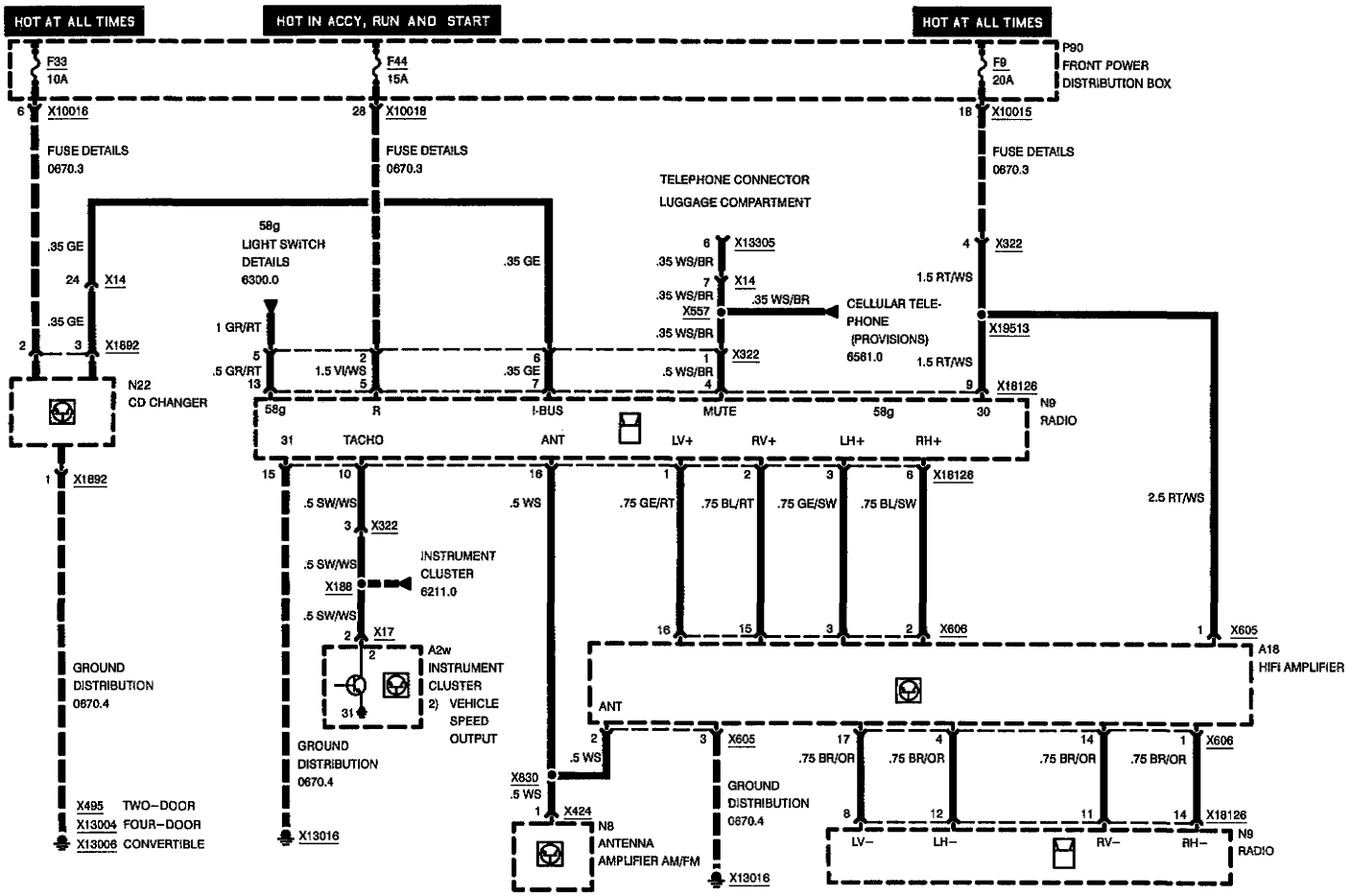


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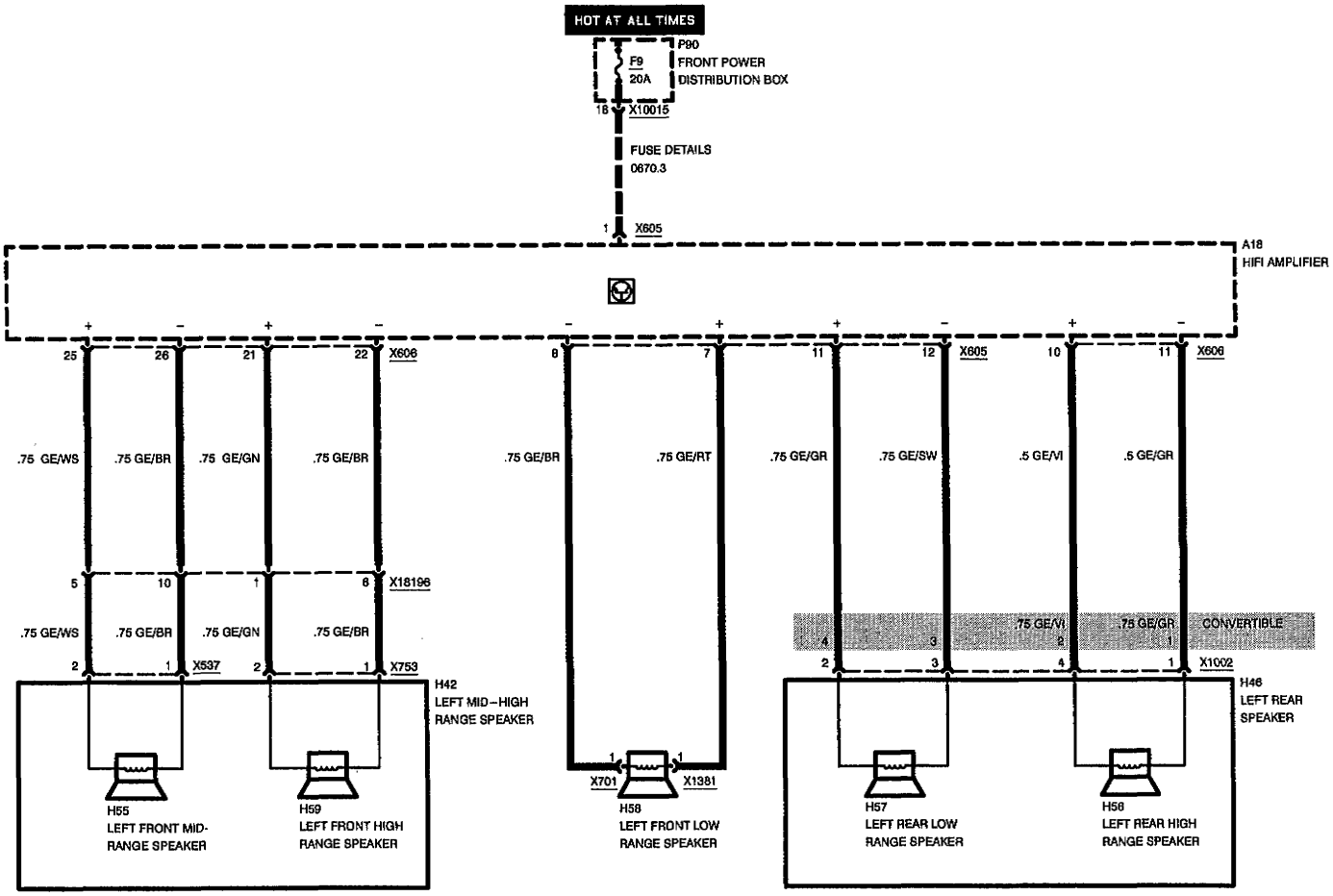
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RADIO/HIFI

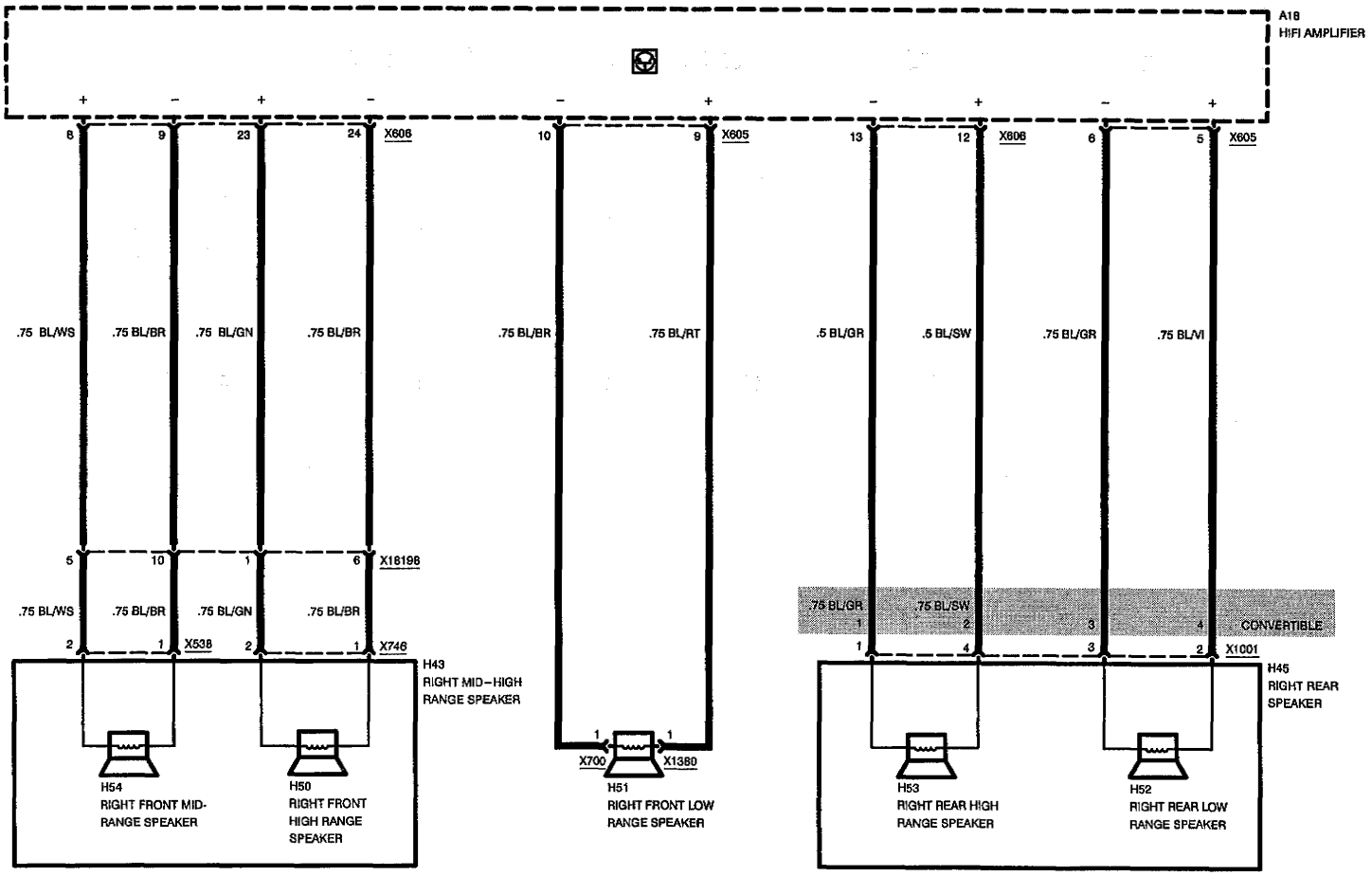
HIFI, 10-SPEAKER SYSTEM



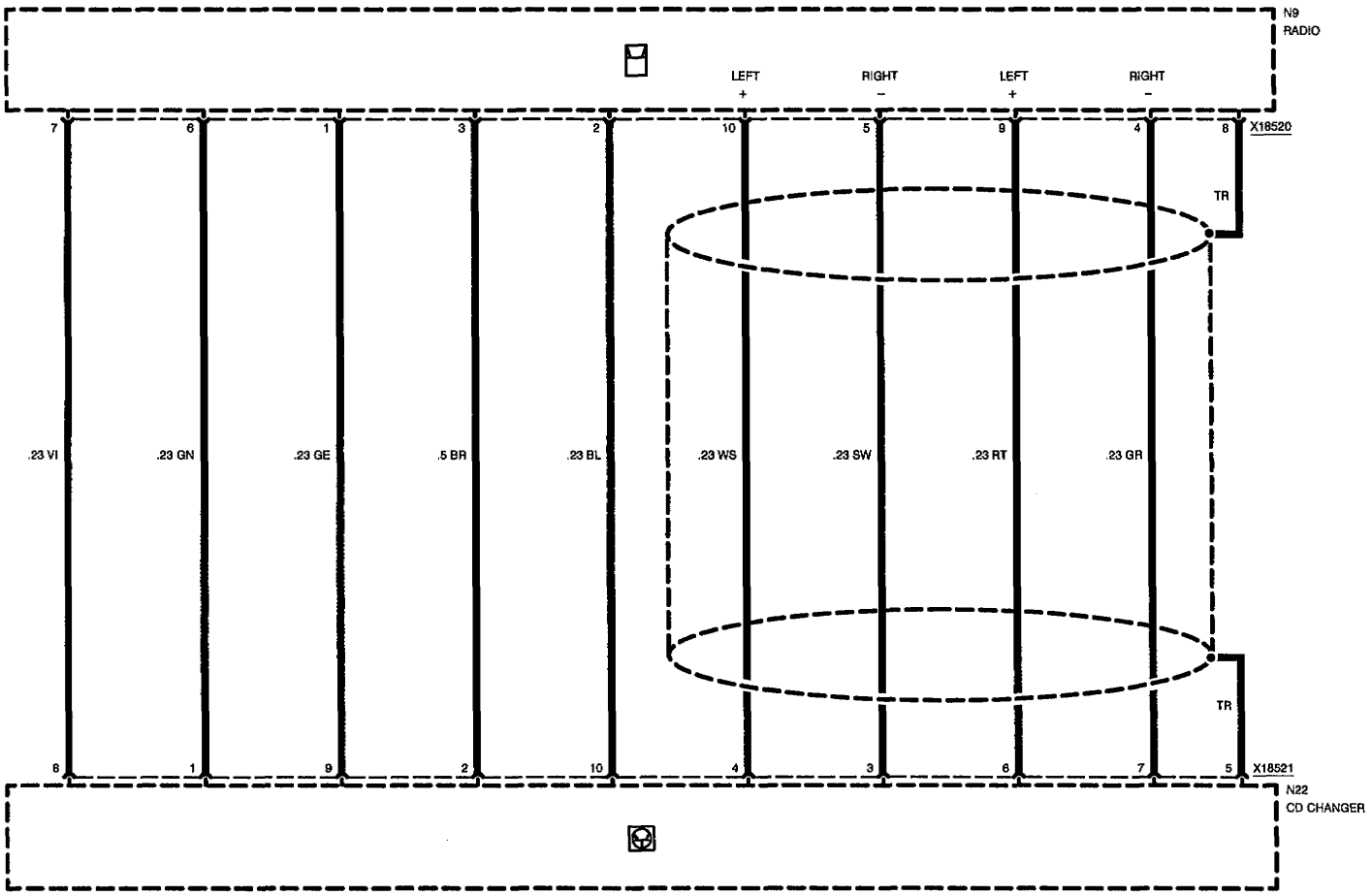
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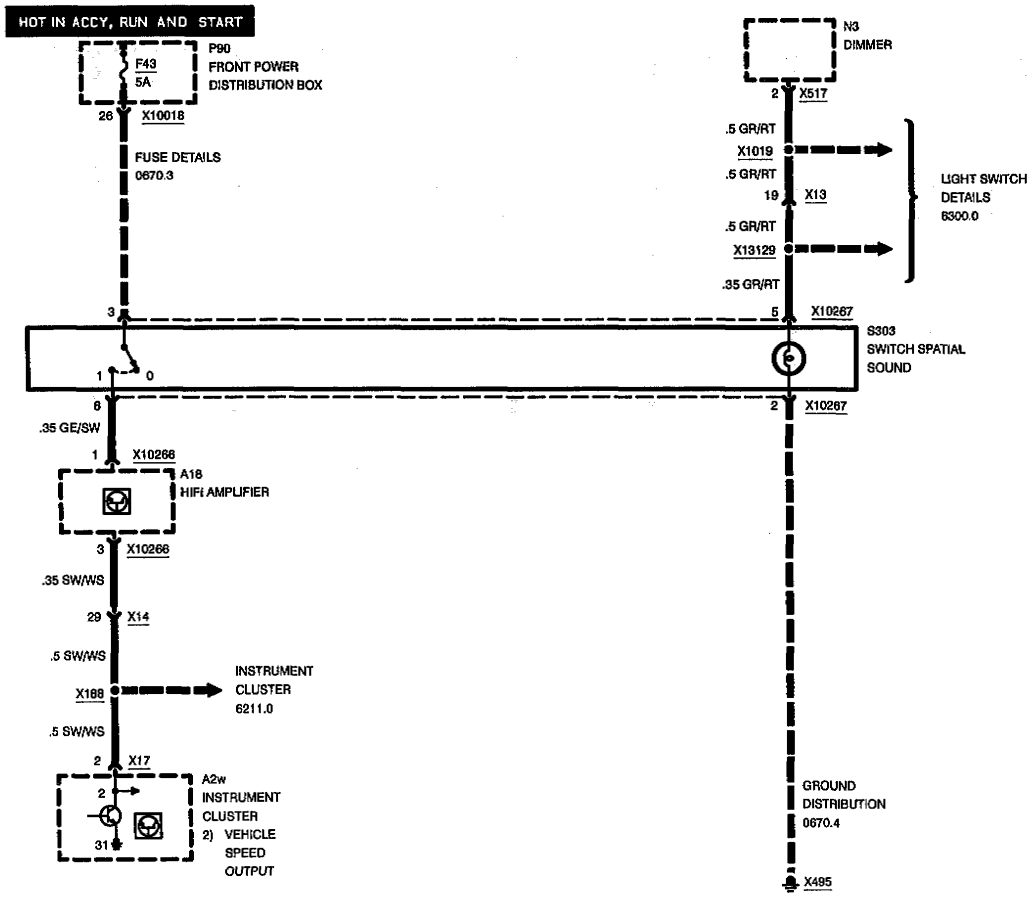


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HIFI, 10–SPEAKER SYSTEM

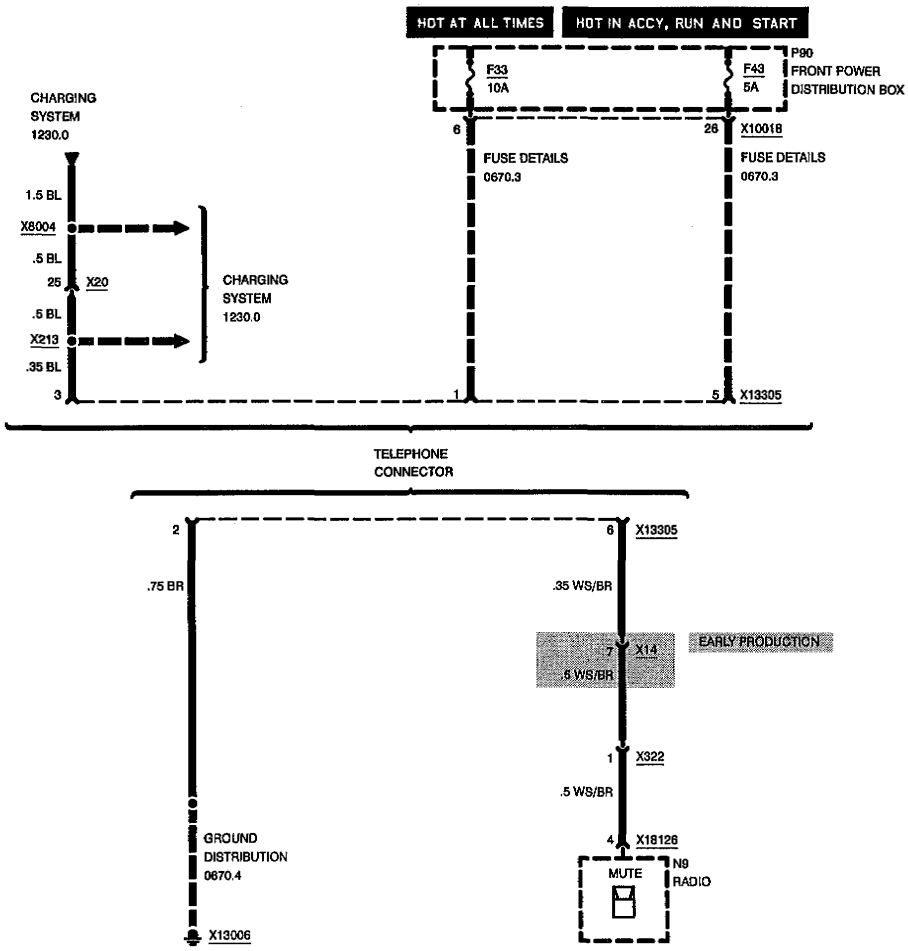


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CELLULAR TELEPHONE (PROVISIONS)

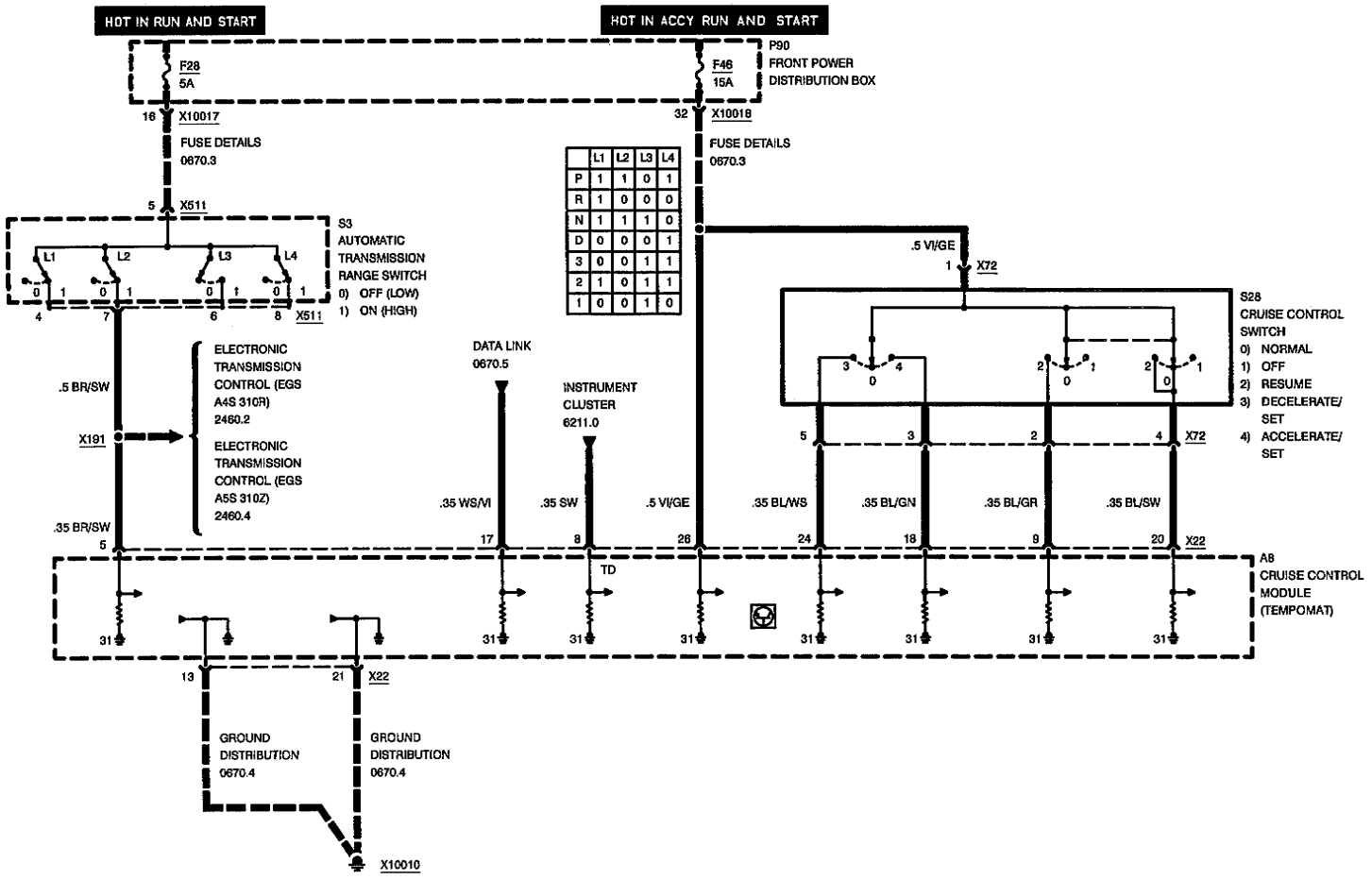
PROVISIONS



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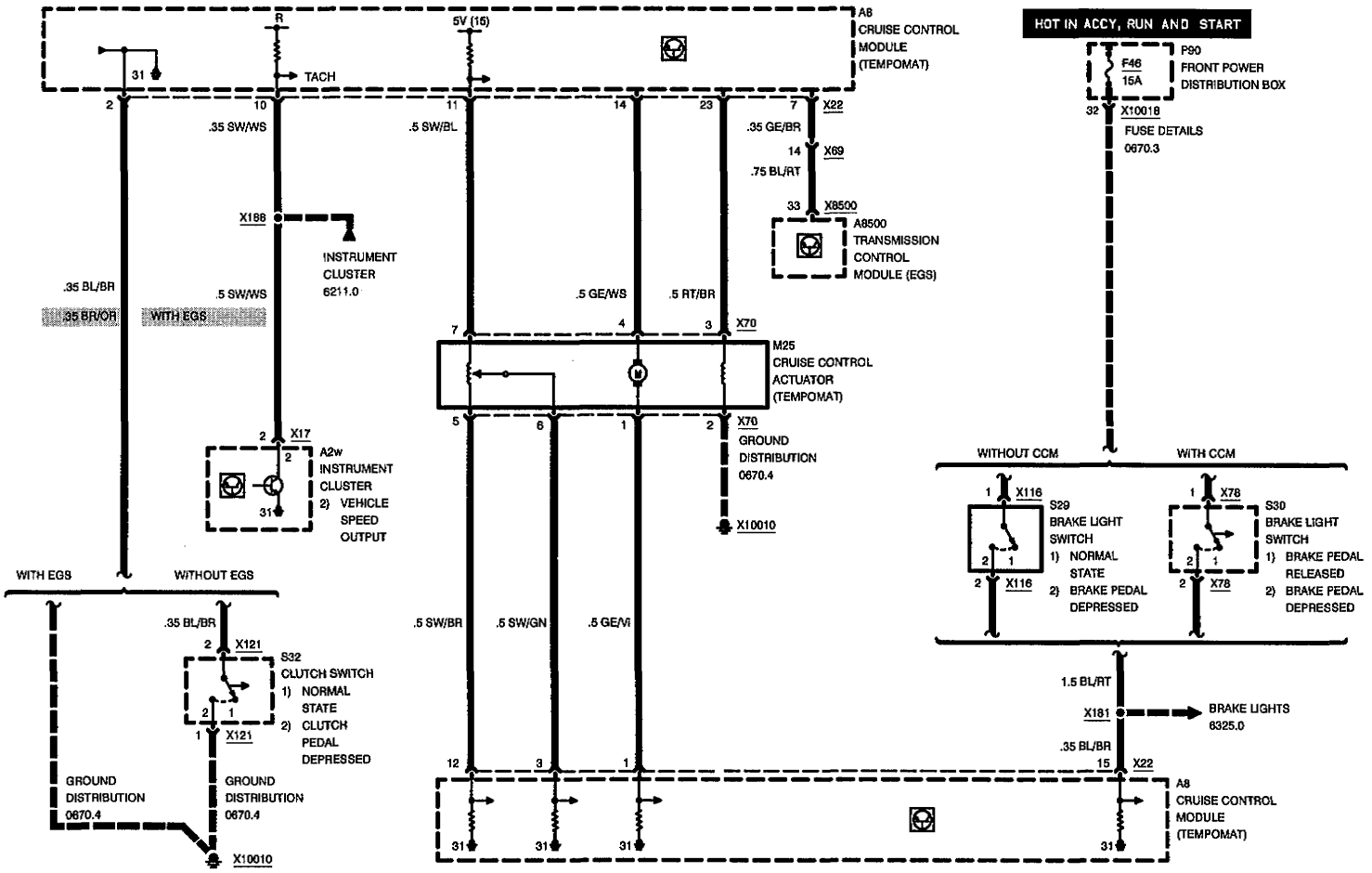
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CRUISE CONTROL (TEMPOMAT)



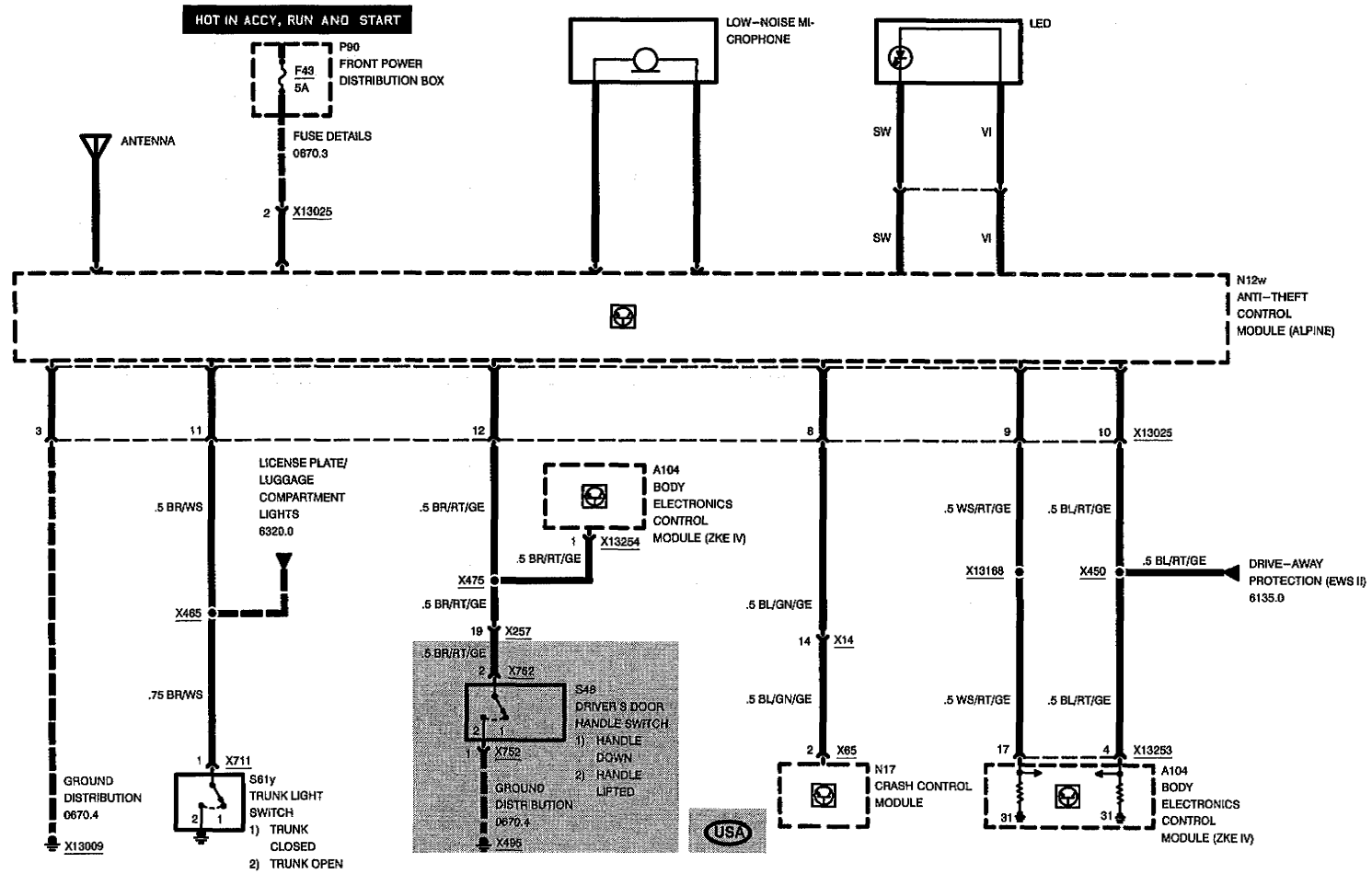
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CRUISE CONTROL (TEMPOMAT)



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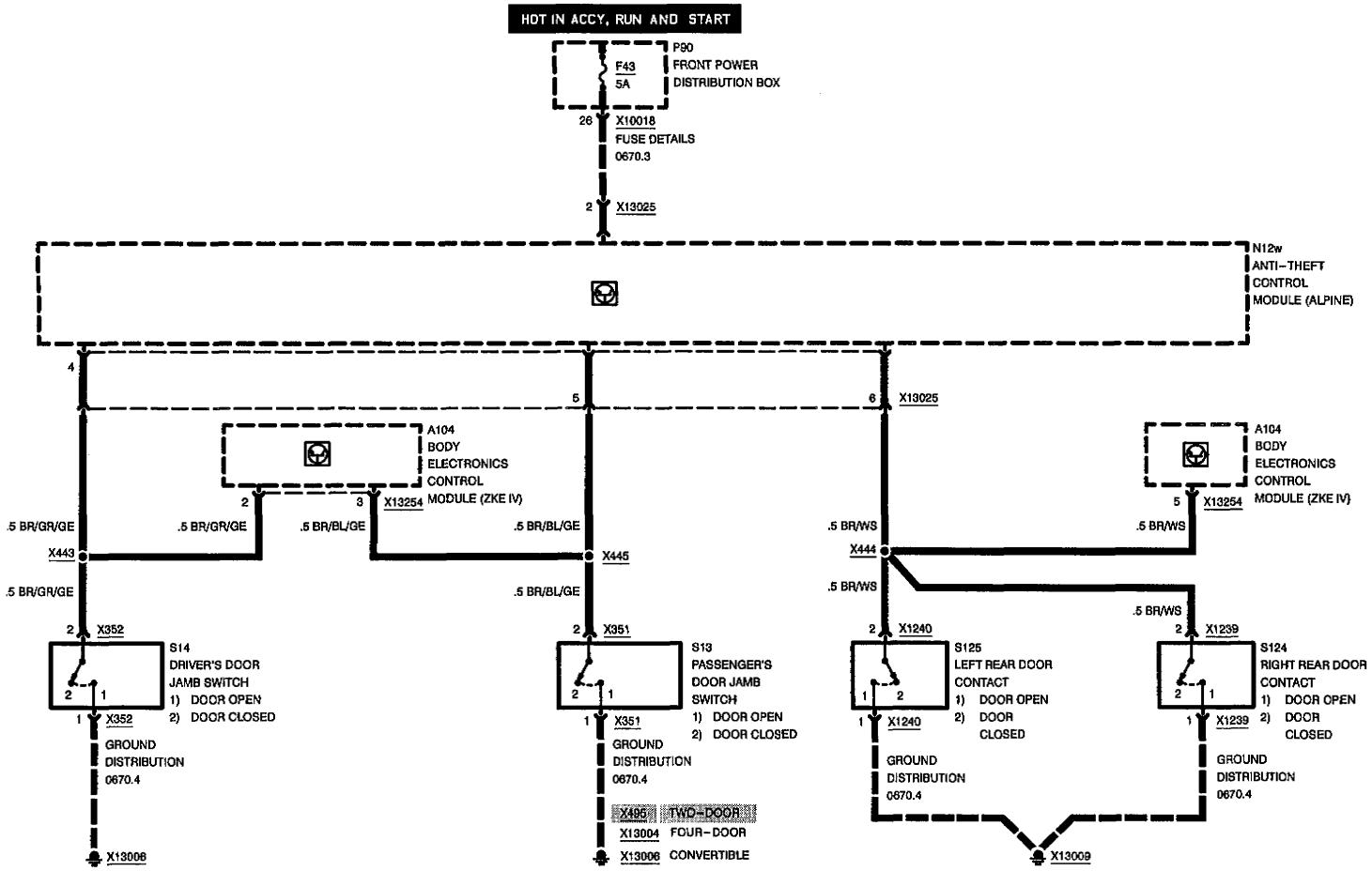
ANTI–THEFT SYSTEM (ALPINE)



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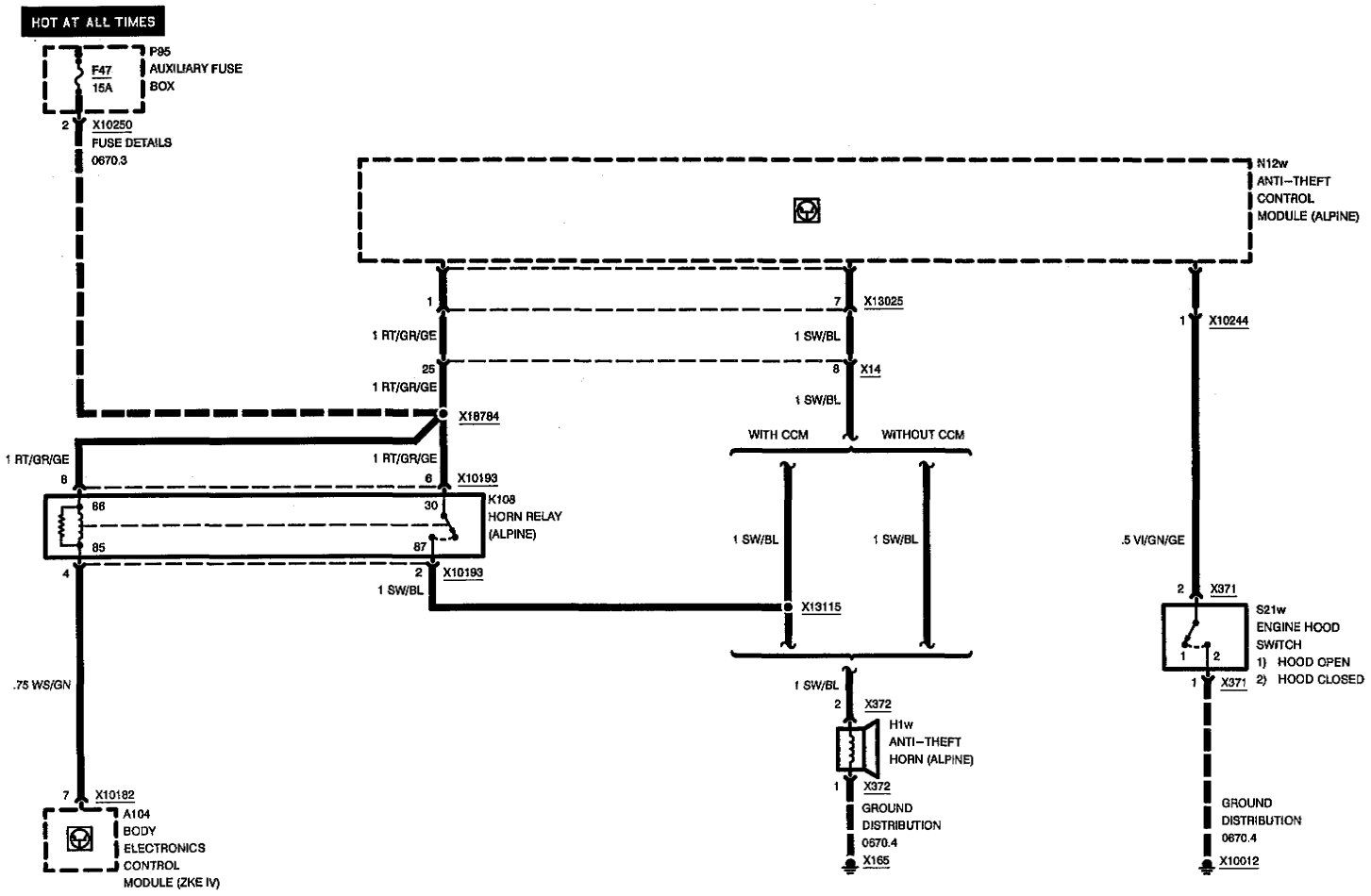
ANTI-THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES



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ANTI–THEFT SYSTEM (ALPINE)

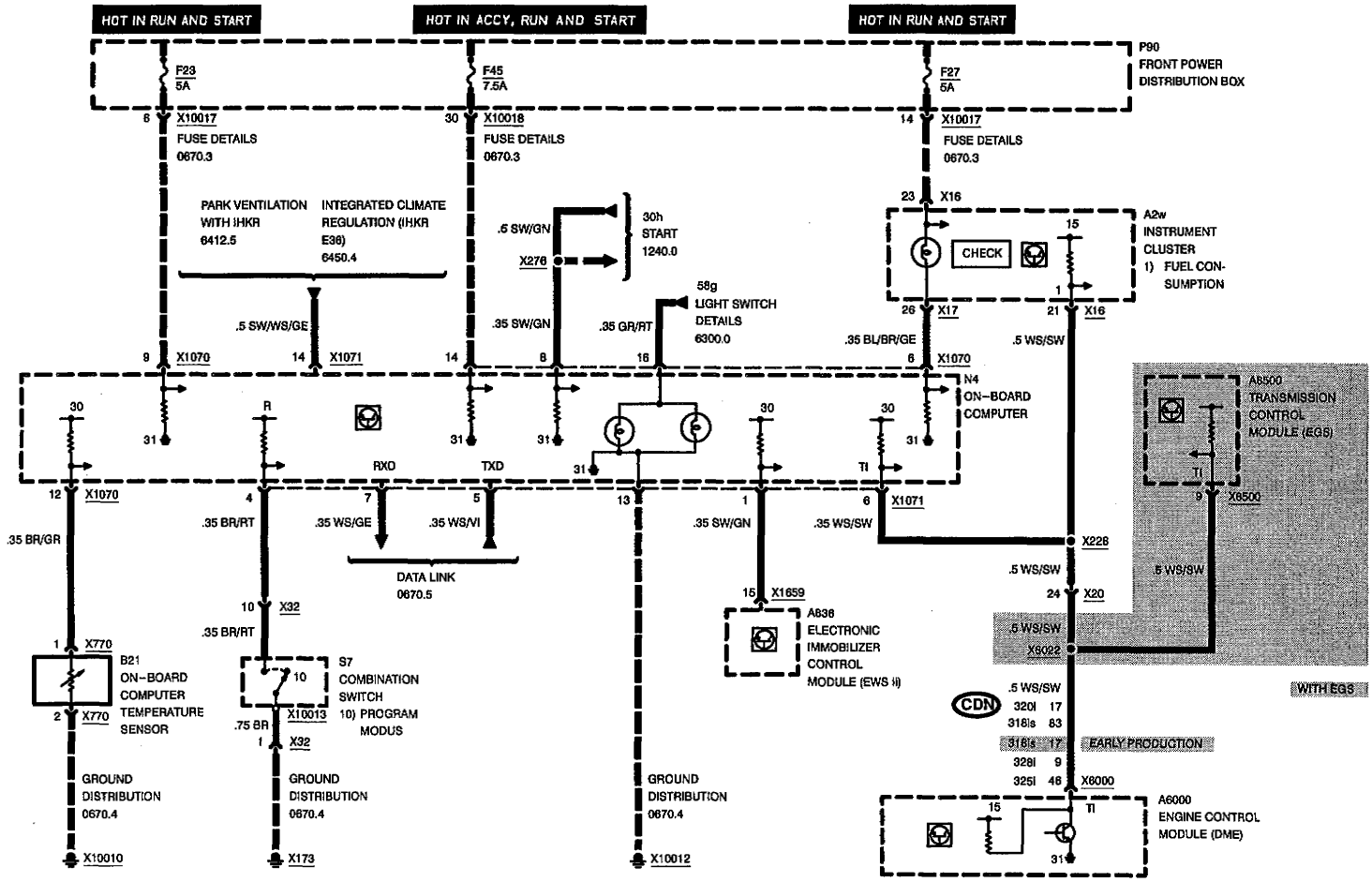


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ON–BOARD COMPUTER (BC V)

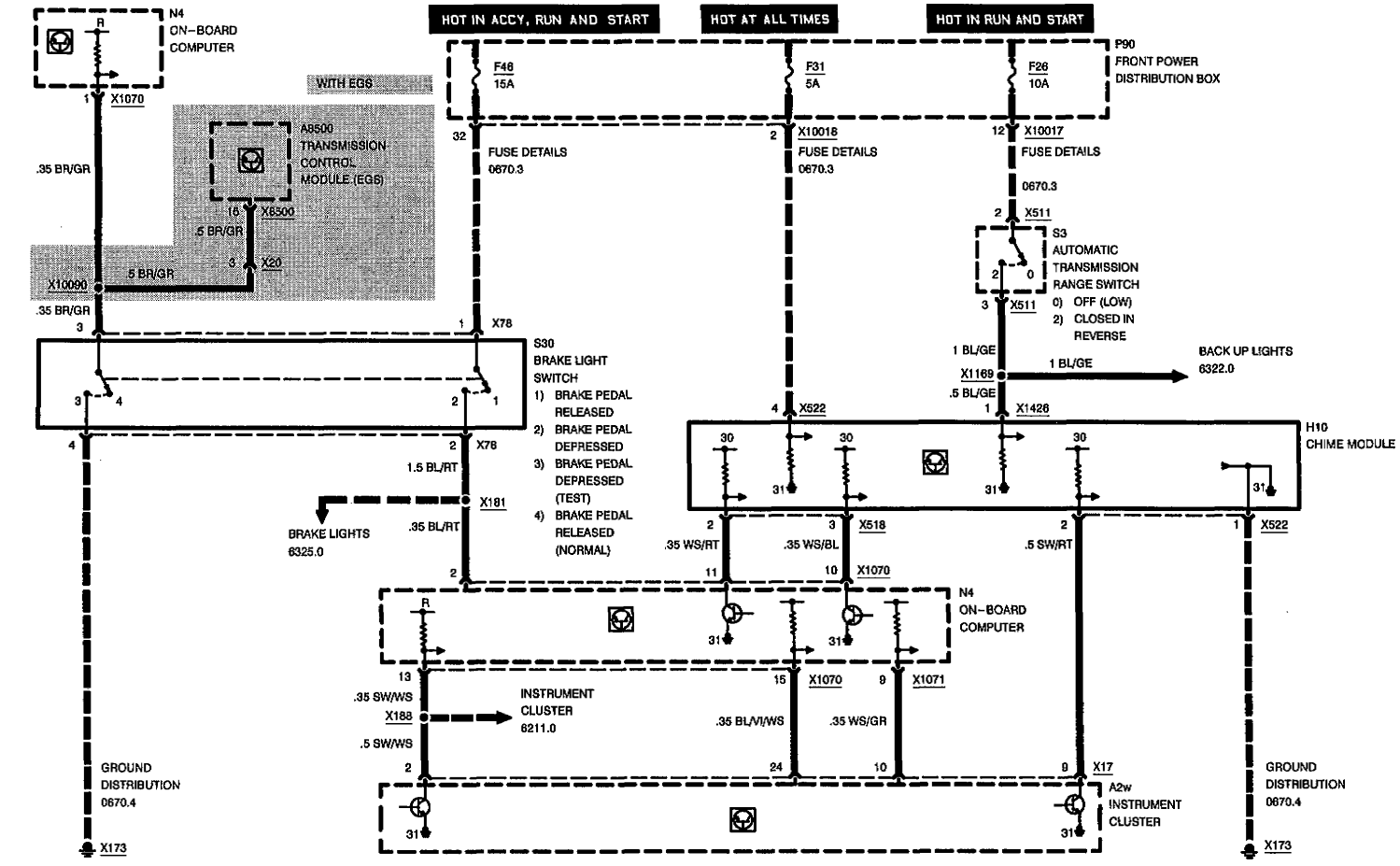
POWER



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ON–BOARD COMPUTER (BC V)

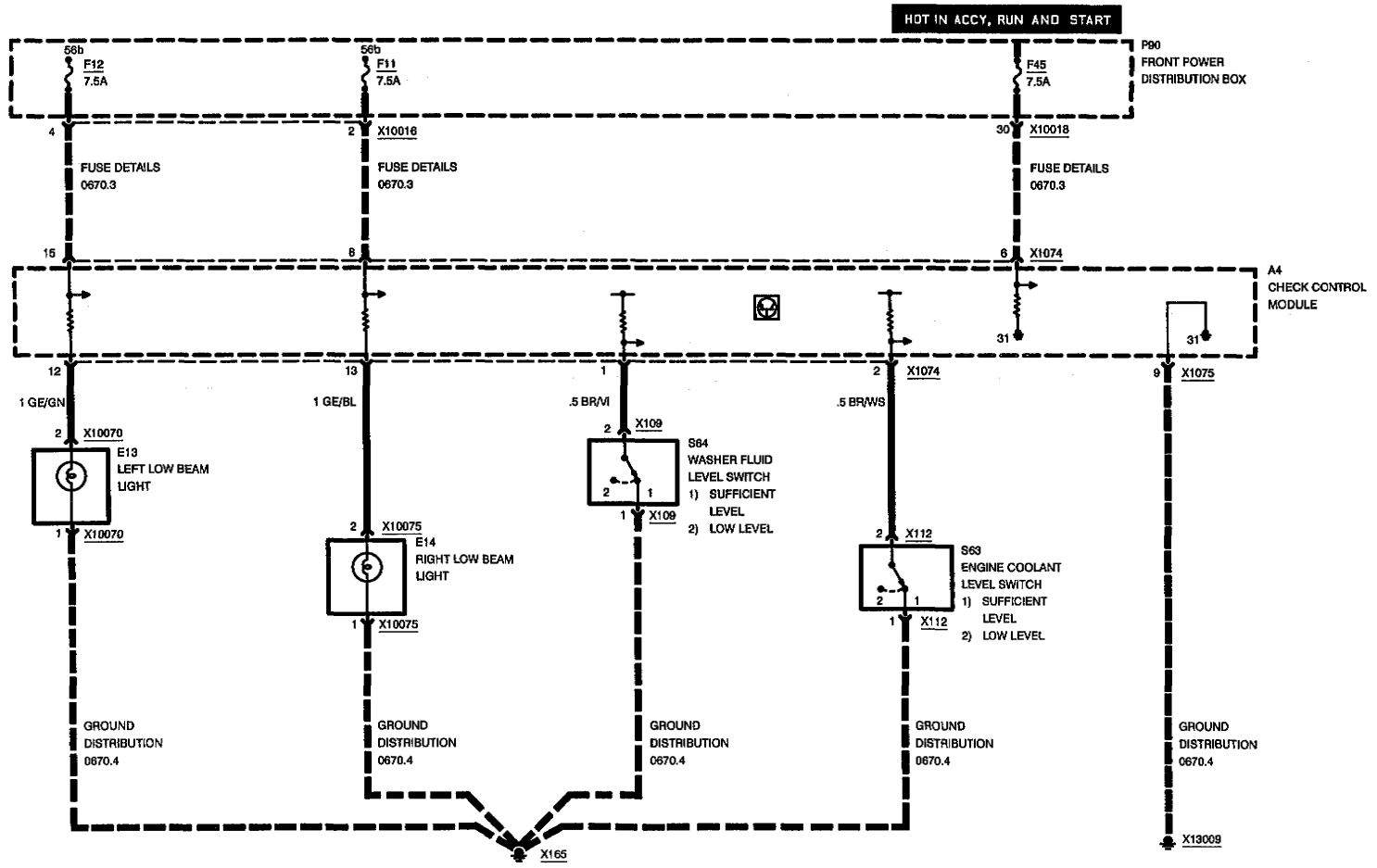
CHIME, BRAKE LIGHT SWITCH



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ON–BOARD COMPUTER (BC V)

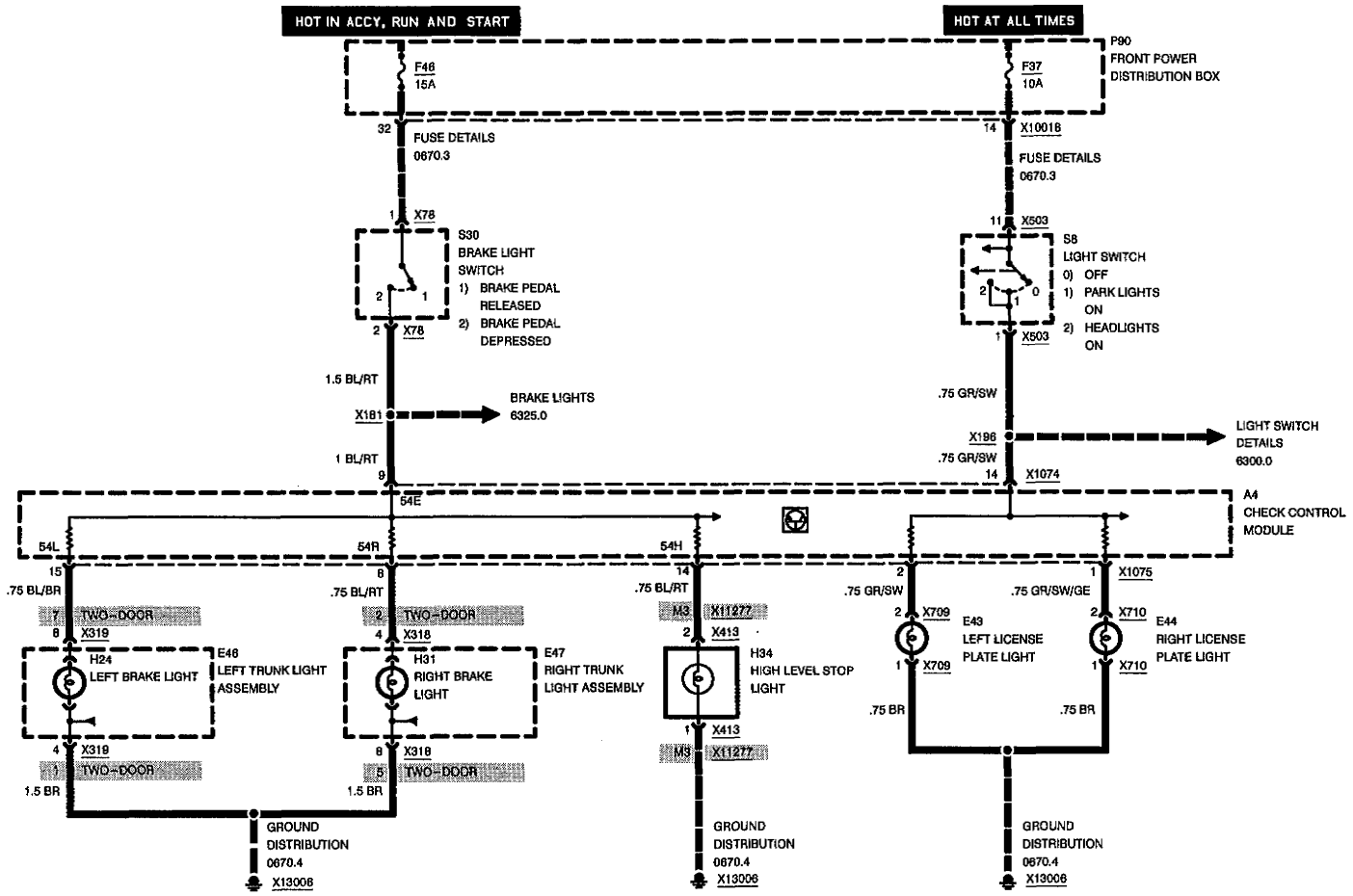
CHECK CONTROL



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ON–BOARD COMPUTER (BC V)

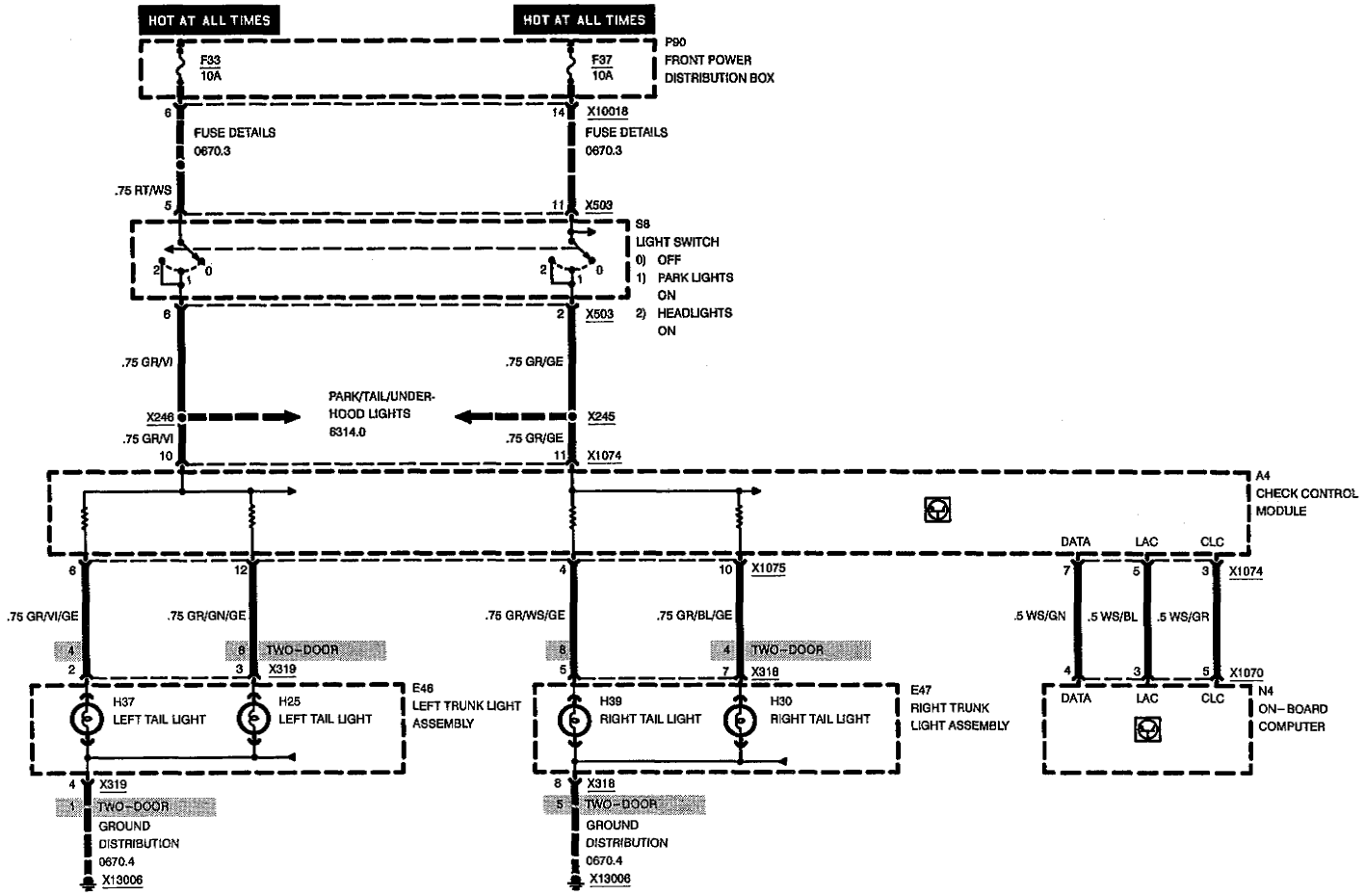
CHECK CONTROL



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ON–BOARD COMPUTER (BC V)

CHECK CONTROL



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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		
A7	SLIP CONTROL MODULE (ABS)	RH side of dash behind glove box	01-2	
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	behind rear seats right (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 ...	SUNROOF CONTROL ASSEMBLY	under roof center panel	04-2	
A64 ...	WIPER/WASHER MODULE (LOW II)	behind glove box (glove box removed)	01-1	
A87y ..	INTEGRATED CLIMATE REGULATION CONTROL MODULE	center console	03-2	
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	
A117 .	TELEPHONE EJECT BOX	center console		
A835 .	TRANSMITTER MODULE (EWS II)	RH side of steering column	37-3	

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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	37-2	
A5024	VARIABLE CAMSHAFT CONTROL MODULE (VANOS)	rear RH side of engine compartment	04-3	
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	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 IHKR 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 near brake master cylinder top of brake fluid reservoir (325i)	18-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0 8500.0
B21 ..	ON-BOARD COMPUTER TEMPERATURE SENSOR	front RH side of engine compartment	20-1
B25y .	FUEL TANK SENSOR II	top of fuel tank	
B72 ..	FUEL TANK PRESSURE SENSOR	RH rear wheel well behind trim panel	35-1
B400 .	MICROPHONE	center of dash	
B5022	VARIABLE CAMSHAFT CONTROL SENSOR 1	front of engine compartment (M3)	12-2
B5023	VARIABLE CAMSHAFT CONTROL SENSOR 2	RH front of engine (M3)	12-1
B5028	HEATED OXYGEN SENSOR 2	front of engine compartment	
B6200	HEATED OXYGEN SENSOR	under center of car	15-3
B6203	CRANKSHAFT POSITION/RPM SENSOR	under RH front of car rear of radiator	10-3
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine below intake manifold rear of radiator (325i)	11-1
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine (M3)	11-2
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine	36-2
B6205	INTAKE AIR TEMPERATURE SENSOR	LH side of engine (near oil level stick)	13-3
B6207	HOT FILM AIR MASS METER	LH side of engine	
B6208	CAMSHAFT ACTUATOR	front of engine	
B6209	HALL EFFECT CAMSHAFT SENSOR	front of engine	
B6217	HOT FILM AIR MASS METER	top front of engine	
B6231	OIL PRESSURE SWITCH	RH front of engine below intake manifold (325i)	11-1
B6231	OIL PRESSURE SWITCH	LH side of engine (near oil level stick) (M3)	14-2

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B6231	OIL PRESSURE SWITCH	RH front of engine below intake manifold (318is)	17-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (325i)	11-3	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine (M3)	12-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH 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	RH front of engine below intake manifold (325i)	11-1	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine (M3)	12-1	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (318is)	17-2	
B6238	OIL TEMPERATURE SENSOR	LH side of engine (M3)	14-2	
B6240	KNOCK SENSOR	top front of engine		
B6241	CYL. 1–2 KNOCK SENSOR	top front of engine		
B6241w	CYL. 1–3 KNOCK SENSOR	top front of engine		
B6242	CYL. 3–4 KNOCK SENSOR	top front of engine	14-3	
B6242w	CYL. 4–6 KNOCK SENSOR	top front of engine		
B6243	CYL. 5–6 KNOCK SENSOR	top front of engine (M3)		
B6256	DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)	RH front of engine below intake manifold		
B9508	PRESSURE 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
B62001	OXYGEN SENSOR (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	
B62002	OXYGEN SENSOR (BEHIND CATALYTIC CONVERTER)	on catalytic converter	
B62101	OXYGEN SENSOR I (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	
B62102	OXYGEN SENSOR I (BEHIND CATALYTIC CONVERTER)	on catalytic converter	
B62201	OXYGEN SENSOR II (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	
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
E9	REAR DEFOGGER I	in upper RH C–pillar	33-2
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	
E15 ...	LEFT PARK LIGHT	front of vehicle	
E19 ...	RIGHT PARK LIGHT	front of vehicle	
E20 ...	UNDERHOOD LIGHT	on underside of engine hood	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
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	
E28y ..	REAR ASHTRAY LIGHT	behind center console		
E29 ...	FRONT CIGAR LIGHTER LIGHT	center console		
E32 ...	TRUNK COMPARTMENT LIGHT	in luggage compartment		
E34 ...	FRONT DOME LIGHT/MAP READING ASSEMBLY	under roof center panel	04-2	
E35 ...	DRIVER'S MAKEUP MIRROR LIGHT	center of windshield header		
E36 ...	PASSENGER'S MAKEUP MIRROR LIGHT	center of windshield header	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 trunk lid, near license plate	09-1	
E44 ...	RIGHT LICENSE PLATE LIGHT	underside of trunk lid, near license plate	09-1	
E45y ..	CASSETTE BOX LIGHT	center of dash		
E46 ...	LEFT TRUNK LIGHT ASSEMBLY	in LH rear side of luggage compartment		
E47 ...	RIGHT TRUNK LIGHT ASSEMBLY	in RH rear side of luggage compartment	03-3	
E56 ...	DRIVER'S SEATBACK HEATER	in upper LH front seatback	23-3	
E57 ...	DRIVER'S SEAT HEATER	under LH front seat	23-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0 8500.0
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	
E99 ...	HARD TOP CONNECTOR 1	in convertible top compartment	
E100y	HARD TOP CONNECTOR 2	in convertible top compartment	
E101 .	LEFT TRUNK COMPARTMENT LIGHT	in LH rear side of luggage compartment Convertible	
E102 .	RIGHT TRUNK COMPARTMENT LIGHT	in RH rear side of luggage compartment Convertible	
E104 .	THROTTLE FLAP HEATER	LH side of engine compartment	
G1 ...	BATTERY	rear RH side of engine compartment	
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
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
H1w ..	ANTI-THEFT HORN (ALPINE)	front RH side of engine compartment	
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	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0 8500.0
H9	LEFT FRONT AUXILIARY TURN LIGHT	front of vehicle	
H10	CHIME MODULE	below LH side of dash	
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 TRUNK LIGHT ASSEMBLY	
H27	LEFT BACK UP LIGHT	LEFT TRUNK LIGHT ASSEMBLY	
H28	RIGHT BACK UP LIGHT	LEFT TRUNK LIGHT ASSEMBLY	
H30	RIGHT TAIL LIGHT	RIGHT TRUNK LIGHT ASSEMBLY	
H31	RIGHT BRAKE LIGHT	RIGHT TRUNK LIGHT ASSEMBLY	
H34	HIGH LEVEL STOP LIGHT	at back of rear window shelf	
H37	LEFT TAIL LIGHT	RIGHT TRUNK LIGHT ASSEMBLY	
H38	TELEPHONE TRANSCEIVER	rear side of luggage compartment	
H41	LEFT FRONT SPEAKER	in lower LH A–pillar	
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	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0 8500.0
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	
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
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
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
K75 ...	ABS PUMP MOTOR RELAY	rear LH side of engine compartment in Power Distribution Box	19-1
K99 ...	REAR WINDOW BLOWER RELAY	behind glove box left	25-2
K108 .	HORN RELAY (ALPINE)	behind glove box left	01-2
K117 .	TRUNK LID RELAY	behind glove box right	
K125 .	ABS PUMP MOTOR RELAY, TIMED	rear LH side of engine compartment in Power Distribution Box	37-1

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
K450	PARK VENTILATION RELAY	footwell, driver's side	02-2	
K5029	DOUBLE RELAY	rear LH side of engine compartment in Power Distribution Box (M3)	19-3	
K6300	ENGINE CONTROL MODULE RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K6300	ENGINE CONTROL MODULE RELAY	rear LH side of engine compartment in Power Distribution Box (M3)	19-3	
K6300	ENGINE CONTROL MODULE RELAY	rear LH side of engine compartment in Power Distribution Box	37-1	
K6301	CYL. 1–6 FUEL PUMP RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K6301	CYL. 1–6 FUEL PUMP RELAY	rear LH side of engine compartment in Power Distribution Box	37-1	
K6301w	FUEL PUMP RELAY	rear LH side of engine compartment in Front Power Distribution Box		
K6303	OXYGEN SENSOR RELAY	Power Distribution Box rear LH side of engine compartment	19-2	
K6304	SECONDARY AIR PUMP RELAY	rear LH side of engine compartment in Power Distribution Box (M3)	37-1	
K6307	FUEL PUMP/START IDENTIFICATION RELAY	rear LH side of engine compartment in Power Distribution Box (M3)	19-3	
K6314	DELAY RELAY	below LH side of dash		
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		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M16 ..	GAS FILLER LOCK MOTOR	in RH rear side of luggage compartment	03-3	
M17 ..	TRUNK LOCK MOTOR	rear side of luggage compartment		
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	
M24 ..	SUNROOF MOTOR	center of windshield header		
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	
M34 ..	DASH VENT MIXING FLAP MOTOR	below RH side of dash center console right	29-3	
M35 ..	DEFROSTER FLAP MOTOR	RH side of IHKA Plenum		
M36 ..	FRESH AIR FLAP MOTOR	below LH side of dash RH side of steering column	29-2	
M40 ..	RECIRCULATION FLAP MOTOR	below LH side of dash RH side of steering column	29-2	
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	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M58 ..	PASSENGER'S SEATBACK RECLINER MOTOR	under RH front seat		
M59 ..	PASSENGER'S SEAT HEIGHT MOTOR	under RH front seat		
M60 ..	PASSENGER'S SEAT MOVEMENT MOTOR	under RH front seat		
M61 ..	PASSENGER'S SEAT CUSHION TILT MOTOR	under RH front seat		
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	
M103 .	LH POP OUT WINDOW MOTOR	in lower LH C–pillar		
M104 .	RH POP OUT WINDOW MOTOR	in lower RH C–pillar		
M105 .	REAR WINDOW BLOWER	behind rear seats	21-3	
M107 .	GLOVE BOX LOCK MOTOR	RH side of dash behind glove box		
M132 .	WINDSCREEN COWL PANEL LOCK MOTOR	front cover	38-2	
M6133	AIR PUMP	front of engine compartment		
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	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
N8 ...	ANTENNA AMPLIFIER AM/FM	in upper LH C–pillar	33-1	
N8 ...	ANTENNA AMPLIFIER AM/FM	in LH side of TRUNK (CONVERTIBLE)		
N10 ..	MULTI–FUNCTION CLOCK	center console		
N12w .	ANTI–THEFT CONTROL MODULE (ALPINE)	behind glove box (glove box removed)	01-3	
N17 ..	CRASH CONTROL MODULE	footwell, driver's side	02-2	
N22 ..	CD CHANGER	in LH forward side of luggage compartment	03-3	
N24 ..	ROLLOVER SENSOR	behind rear seats left	02-1	
N404 .	DIVERSITY	in upper LH C–pillar		
N444 .	FM AMPLIFIER HLO	in upper RH C–pillar		
P90 ...	FRONT POWER DISTRIBUTION BOX	rear LH side of engine compartment	05-3	
P95 ...	AUXILIARY FUSE BOX	footwell, driver's side		
P97 ...	AUXILIARY FUSE BOX	LH side of dash behind instrument cluster	02-2	
R11 ..	BLOWER RESISTORS	behind center of dashboard left	29-1	
R6240	RESISTOR	front of engine compartment		
R6252	THROTTLE POSITION SENSOR	RH front of engine (M3)	11-2	
R6252	THROTTLE POSITION SENSOR	LH side of engine (near oil level stick) (320i–325i)	13-3	
R6252	THROTTLE POSITION SENSOR	LH side of engine compartment (318is)	17-3	
R8554	RESISTOR	front of engine compartment		
S2	IGNITION SWITCH	LH side of dash	24-3	
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	center console near gearshift lever	30-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
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	LH side of 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	rear RH door pillar	33-3	
S14	DRIVER'S DOOR JAMB SWITCH	LH rear door jamb	33-3	
S17	MIRROR CONTROL SWITCH	in upper LH front door		
S18	HAZARD SWITCH	center console near gearshift lever	30-3	
S19	UNDERHOOD LIGHT SWITCH	near RH headlight assembly		
S21w	ENGINE HOOD SWITCH	front RH side of engine compartment on washer fluid reservoir	10-2	
S27	INERTIA SWITCH	in lower RH A–pillar		
S28	CRUISE CONTROL SWITCH	LH side of dash RH side of steering column above	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	
S36y	DOUBLE TEMPERATURE SWITCH	front RH side of engine compartment near RH headlight assembly	09-3	
S38	SUNROOF SWITCH	roof		
S40y	CENTRAL POWER WINDOW SWITCH	center console		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S41...	LEFT REAR WINDOW SWITCH	in lower LH rear door behind trim panel		
S42...	RIGHT REAR WINDOW SWITCH	in lower RH rear door behind trim panel		
S51...	DRIVER'S SEAT, SEAT CONTROL SWITCH	LH side of driver's seat		
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	
S56...	PASSENGER'S SEAT, SEAT CONTROL SWITCH	RH front seat		
S58...	DRIVER'S SEAT BELT SWITCH	in LH front seat belt buckle		
S59...	PASSENGER'S SEAT BELT SWITCH	in RH front seat belt buckle		
S63...	ENGINE COOLANT LEVEL SWITCH	front RH side of engine compartment	18-1	
S61y .	TRUNK LIGHT SWITCH	underside of trunk lid left	34-2	
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 MAKEUP MIRROR SWITCH	above LH sun visor		
S78...	PASSENGER'S MAKEUP MIRROR SWITCH	above RH sun visor	23-1	
S82...	REAR FOG LIGHT SWITCH	LH side of dash		
S123 .	ABS PEDAL TRAVEL SENSOR	near brake master cylinder	18-3	
S124 .	RIGHT REAR DOOR CONTACT	in lower RH C-pillar	33-3	
S125 .	LEFT REAR DOOR CONTACT	in lower LH C-pillar	33-3	
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	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
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		
S130 .	CHILD PROTECTION CONTROL (CONSOLE)	center console		
S134y	IHKR CONTROL PANEL	center of dash		
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		
S182 .	LH POP OUT WINDOW SWITCH	center console		
S183 .	RH POP OUT WINDOW SWITCH	center console		
S196 .	REAR WINDOW BLOWER MICRO SWITCH .	in convertible top compartment left	22-3	
S213 .	TRUNK LID MICRO SWITCH	underside of trunk lid		
S214 .	CONVERTIBLE TOP STORAGE LID MICRO SWITCH	at convertible top linkage		
S231 .	WINDSCREEN COWL PANEL LOCK MICRO-SWITCH	front cover	38-2	
S303 .	SWITCH SPATIAL SOUND	center console		
S8503	PROGRAM SWITCH	center console		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
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	
U4 ...	TELEPHONE HANDSET	below front of console		
V4	DAYTIME RUNNING LIGHTS CODING DIODE	LH side of dash		
V7	ASC DIODE	top LH side of engine compartment in Front Power Distribution Box		
V9501	UNCOUPLING DIODE (KL61)	front of engine compartment		
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		00-4
X14 ...	(30 PINS, WHITE)	behind LH footwell kickpanel		00-4

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X16 ...	(26 PINS, WHITE)	LH side of dash rear of instrument cluster, A2	28-3	00-2
X17 ...	(26 PINS, BLUE)	LH side of dash rear of instrument cluster, A2	28-3	00-2
X20 ...	(25 PINS, BLACK)	rear LH side of engine compartment	18-3	05-2
X22 ...	(26 PINS, BLUE)	RH side of dash behind glove box	01-2	00-2
X31 ...	(12 PINS, BLACK)	rear LH side of engine compartment back of LH side shock tower	16-2	01-4
X32 ...	(12 PINS, WHITE)	LH footwell underside of steering column	27-3	02-6
X33 ...	(12 PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	27-3	02-6
X35 ...	(12 PINS, NATURAL)	below LH side of dash RH side of steering column	27-3	02-6
X43 ...	(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
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
X55 ...	(9 PINS, BLACK)	behind LH footwell speaker grille		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 (325i)	18-3	05-2
X70 ...	(8 PINS, BLACK)	front LH side of engine compartment	18-2	02-2
X72 ...	(6 PINS, BLACK)	LATE PRODUCTION footwell, driver's side		04-2

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X74	(30 PINS, ORANGE)	below rear seat	00-2	12-2
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
X83	(8 PINS, BLACK)	RH side of dash behind glove box		03-6
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
X107	(2 PINS, GRAY)	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 near brake master cylinder top of brake fluid reservoir	18-3	
X112	(2 PINS, BLACK)	front RH side of engine compartment	18-1	
X113	(2 PINS, GRAY)	above RH front wheel well behind RH front wheel	09-2	
X114	(2 PINS, GRAY)	above LH front wheel well behind LH front wheel	09-2	
X116	(2 PINS, BLACK)	LH footwell near brake pedal	26-3	
X118	(2 PINS, BLACK)	above LH front wheel well behind LH front wheel	09-2	
X120	(2 PINS, BLACK)	near LH front wheel well on steering–gear box		
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		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X142	(3 PINS, GRAY)	under rear of car LH side of on differential		02-1
X143	(3 PINS, GRAY)	under rear of car LH side of on differential	08-1	02-1
X161	(1 PIN, WHITE)	near RH headlight assembly		
X163	(3 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir near RH headlight assembly	10-1	06-3
X165	GROUND	front LH side of engine compartment	06-3	
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 of instrument cluster, A2	28-3	01-3
X272	(2 PINS, BLACK)	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, WHITE)	under LH front seat under carpet	23-2	03-3
X279	(4 PINS, WHITE)	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 trunk lid left	34-2	01-1
X312	(2 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	03-3	01-6
X315	(2 PINS, BLACK)	underside of trunk lid left	34-2	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X316	(6 PINS, WHITE)	center console near gearshift lever	31-1	05-3
X317	(6 PINS, WHITE)	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
X319	(8 PINS, BLACK)	in LH rear side of luggage compartment behind LH rear light assembly		01-4
X320	(6 PINS, WHITE)	center console near gearshift lever	30-3	07-1
X322	(6 PINS, BLACK)	LH footwell	28-2	04-2
X324	(6 PINS, WHITE)	center console near gearshift lever	31-1	05-3
X333	(4 PINS, BLACK)	rear of engine compartment below center of cowl	16-1	07-2
X351	(2 PINS, BLACK)	in upper RH B-pillar		
X352	(3 PINS, BLACK)	in upper LH B-pillar	38-3	01-1
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, NATURAL)	in upper LH C-pillar	33-1	
X380	(1 PIN, NATURAL)	in upper RH C-pillar	33-2	
X381	(3 PINS, BLACK)	under roof center panel		01-1
X382	(3 PINS, BLACK)	above RH sun visor	23-1	01-1
X383	(2 PINS, BLACK)	under rear of car LH side of on differential	08-1	
X386	(2 PINS, BLACK)	REAR ASHTRAY LIGHT		
X388	(2 PINS, BLACK)	in lower RH A-pillar		
X389	(2 PINS, GRAY)	rear LH side of engine compartment		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X390	(2 PINS, BLACK)	RH side of dash behind glove box		
X401	(1 PIN, BLACK)	above LH sun visor		
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	center console near gearshift lever	07-2	
X495	GROUND	behind RH footwell trim above	07-3	
X498	GROUND	center console near gearshift lever	07-2	
X503	(12 PINS, WHITE)	below LH side of dash	26-1	01-6
X504	(4 PINS, WHITE)	center console	26-1	03-3
X509	(9 PINS, BLACK)	behind glove box (glove box removed)		03-6
X510	(9 PINS, BLACK)	behind glove box (glove box removed)		03-6
X511	(8 PINS, BLACK)	center console near gearshift lever	30-3	01-4
X516	(5 PINS, BLACK)	center console	30-3	03-2
X517	(4 PINS, BLACK)	below LH side of dash	26-1	03-3
X518	(4 PINS, BLACK)	LH footwell	28-2	03-3
X521	(6 PINS, BLUE)	center console		04-5
X522	(3 PINS, WHITE)	LH footwell	28-2	03-6
X523	(3 PINS, NATURAL)	LH side of dash		03-6
X531	(1 PIN, NATURAL)	center console near gearshift lever	30-2	
X532	(2 PINS, BLACK)	center console near gearshift lever	30-2	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X537	(2 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	
X540	(2 PINS, BLACK)	LH side of glove box	25-1	
X541	(1 PIN, NATURAL)	LH side of glove box	25-1	
X542	(2 PINS, BLACK)	LH side of glove box	25-1	
X603	(6 PINS, ---)	center console		05-1
X604	(6 PINS, ---)	RH front seat		05-1
X605	(12 PINS, BLACK)	below RH side of rear seat Convertible	02-3	11-3
X605	(12 PINS, BLACK)	in LH side of luggage compartment	04-1	11-3
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		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
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

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
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
X662	(6 PINS, GRAY)	below LH side of dash RH side of steering column	29-2	04-5
X663	(6 PINS, GRAY)	below RH side of dash		10-1
X669	(6 PINS, GRAY)	below RH side of dash center console right	29-3	04-5
X671	(5 PINS, BLACK)	behind LH side of dash		12-1
X679	(2 PINS, WHITE)	below RH side of rear seat	20-2	
X692	(3 PINS, BLACK)	center console		02-1
X695	(10 PINS, BLACK)	below center console		02-4
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 trunk lid, near license plate	09-1	
X710	(2 PINS, BLACK)	underside of trunk lid, near license plate	09-1	
X711	(1 PIN, NATURAL)	underside of trunk lid left	34-2	
X712	(1 PIN, NATURAL)	underside of trunk lid left		
X713	(2 PINS, BLACK)	under rear of car LH side of 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	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
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		
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	
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	
X749	(4 PINS, BLACK)	in upper LH front door	31-3	12-3
X751	(2 PINS, WHITE)	LH front door in door at key lock assembly	32-2	
X752	(2 PINS, GRAY)	LH front door in door at key lock assembly	32-2	
X768	(2 PINS, WHITE)	in the engine compartment near LH headlight assembly	08-2	
X768	(2 PINS, WHITE)	in the engine compartment near LH headlight assembly		
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 IHKR Plenum	28-1	
X772	(2 PINS, WHITE)	center console		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X773	(2 PINS, WHITE)	center console		
X774	(1 PIN, GRAY)	rear of engine compartment behind RH fresh air cowl		
X778	(3 PINS, BLACK)	in LH front seat belt buckle	23-2	01-1
X779	(2 PINS, BLACK)	LH side of glove box	25-1	
X782	(3 PINS, ORANGE)	below RH side of dash	27-2	13-1
X783	(3 PINS, BLACK)	underside of steering column		13-1
X786	(2 PINS, BLACK)	UNDERHOOD LIGHT		
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		
X904	(4 PINS, GRAY)	LH side of IHKR Plenum	29-1	03-3
X905	(5 PINS, BLACK)	behind center of dashboard		
X998	(4 PINS, BLACK)	below center console		03-1
X999	(4 PINS, BLACK)	behind center of dashboard LH side of IHKR Plenum		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
X1161	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X1162	(2 PINS, BLACK)	near brake master cylinder	18-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1165	GROUND	below LH side of dash	07-1	
X1166	GROUND	behind RH footwell trim above	07-3	
X1170	(42 PINS, BLACK)	behind glove box (glove box removed)	01-2	12-4
X1171	(55 PINS, BLACK)	behind glove box (glove box removed)	01-3	00-1
X1176	(25 PINS, BLACK)	LH side of engine compartment		05-3
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	04-2
X1245	(1 PIN, BLACK)	above LH sun visor		
X1246	(1 PIN, BLACK)	above RH sun visor		
X1380	(1 PIN, NATURAL)	behind RH footwell speaker grille		
X1381	(1 PIN, NATURAL)	behind LH footwell kickpanel		
X1426	(1 PIN, BROWN)	rear RH side of engine compartment in E–Box		
X1441	GROUND	below rear seat	00-2	
X1527	(26 PINS, BLUE)	behind center console	03-2	00-2
X1659	(15 PINS, YELLOW)	RH side of dash behind glove box	37-2	00-3
X1660	(3 PINS, WHITE)	RH side of steering column	37-3	01-1
X1890	(3 PINS, BLACK)	behind front grille behind trim panel		01-1

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1892	(3 PINS, WHITE)	in LH rear side of luggage compartment CD CHANGER	03-3	02-1
X5013	(2 PINS, BLACK)	LH side of engine (M3)	14-2	
X5013	(2 PINS, BLACK)	front of engine compartment		
X5020	(2 PINS, BLACK)	front of engine compartment (M3)		
X5021	(2 PINS, BLACK)	front of engine compartment		
X5022	(3 PINS, BLACK)	front of engine compartment (M3)	12-2	07-3
X5023	(3 PINS, BLACK)	RH front of engine (M3)	12-1	07-3
X5023	(3 PINS, BLACK)	front of engine compartment		07-3
X5024	(15 PINS, WHITE)	rear RH side of engine compartment	04-3	00-3
X5028	(4 PINS, BLACK)	lower LH side of engine (M3)		03-4
X5029	(10 PINS, BLACK)	front LH side of engine compartment in Front Power Distribution Box		09-1
X5032	(15 PINS, BLACK)	front of engine compartment		00-3
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
X6091	(30 PINS, BLACK)	rear of engine compartment on engine bulkhead		13-4
X6101	(2 PINS, BLACK)	on throttle body (M3)	11-2	
X6101	(2 PINS, BLACK)	top center of engine		
X6102	(2 PINS, BLACK)	top center of engine		
X6103	(2 PINS, BLACK)	top center of engine		
X6104	(2 PINS, BLACK)	top center of engine		
X6105	(2 PINS, BLACK)	top center of engine		
X6106	(2 PINS, BLACK)	top center of engine		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
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	
X6130	(3 PINS, GRAY)	RH front of engine below intake manifold (325i)	11-3	13-2
X6130	(2 PINS, BLACK)	rear LH side of engine compartment (M3)	14-3	
X6131	(2 PINS, BLACK)	front RH side of engine compartment		
X6133	(2 PINS, BLACK)	front of engine compartment		
X6150	(12 PINS, BLACK)	rear 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		
X6200	(4 PINS, BLACK)	under center of car	15-3	03-4
X6203	(3 PINS, BLACK)	front of engine below intake manifold (M3)	12-2	13-2
X6204	(3 PINS, BLACK)	front of engine below intake manifold (M3)	12-2	07-3
X6205	(2 PINS, BLACK)	LH side of engine (near oil level stick)	13-3	
X6207	(4 PINS, BLACK)	LH side of engine		07-2
X6208	(2 PINS, BLACK)	front of engine CAMSHAFT ACTUATOR		
X6209	(3 PINS, BLACK)	front of engine HALL EFFECT CAMSHAFT SENSOR		07-5
X6217	(4 PINS, GRAY)	top front of engine		07-2

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6231	(2 PINS, BROWN)	RH front of engine below intake manifold (near oil level stick) (325i)	11-1	
X6231	(2 PINS, BLACK)	LH side of engine compartment (near oil level stick) (M3)	14-2	
X6231	(2 PINS, BROWN)	RH front of engine below intake manifold (near oil level stick) (318is)	17-1	
X6232	(2 PINS, BLACK)	RH front of engine below intake manifold (325i)	11-3	
X6232	(2 PINS, BLACK)	RH front of engine (M3)	12-1	
X6232	(2 PINS, BLACK)	RH front of engine below intake manifold (318is)	17-2	
X6233	(7 PINS, BLACK)	LH side of engine compartment right of LH side shock tower		04-3
X6236	(2 PINS, BLUE)	RH front of engine below intake manifold (325i)		
X6236	(2 PINS, BLUE)	RH front of engine (M3)	12-1	
X6236	(2 PINS, BLUE)	RH front of engine below intake manifold (318is)	17-2	
X6238	(2 PINS, BLACK)	LH side of engine (M3)	14-2	
X6240	(4 PINS, BLACK)	LH side of engine near starter		07-2
X6241	(3 PINS, BLACK)	LH side of engine (M3)	14-1	07-5
X6241	(3 PINS, BLACK)	LH side of engine (318is)	16-3	07-5
X6242	(2 PINS, BLACK)	LH side of engine (M3)	14-1	07-3
X6242	(3 PINS, BLACK)	LH side of engine (318is)	16-3	07-5
X6243	(3 PINS, BLACK)	LH side of engine (M3)	14-1	07-5
X6252	(3 PINS, BLACK)	LH side of engine (M3)	11-2	07-3
X6252	(3 PINS, BLACK)	LH side of engine (near oil level stick) (320i–325i)	13-3	13-2
X6256	(4 PINS, BLACK)	rear of engine compartment	11-1	07-2
X6275	(2 PINS, BLACK)	top center of engine	36-2	
X6300	(9 PINS, BLACK)	rear LH side of engine compartment		03-6

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6301	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6303	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6304	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6307	(10 PINS, BLACK)	front of engine compartment		09-1
X6454	GROUND	rear RH side of engine compartment back of RH side shock tower	06-2	
X6456	GROUND	RH front of engine (325i)	11-3	
X6456	GROUND	on cylinder head	36-1	
X6509	CABLE SOCKET ALTERNATOR B+	front LH side of engine compartment	05-2	
X6509	CABLE SOCKET ALTERNATOR B+	front LH side of engine compartment		
X6510	CABLE SOCKET STARTER TERMINAL 50	rear LH side of engine compartment below intake manifold		
X6511	CABLE SOCKET STARTER TERMINAL 30h	rear LH side of engine compartment below intake manifold		
X6512	CABLE SOCKET STARTER TERMINAL 30h	rear LH side of engine compartment below intake manifold		
X6550	(2 PINS, BLACK)	under LH center of car	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	(55 PINS, BLACK)	rear RH side of engine compartment	00-1	00-1
X8503	(10 PINS, WHITE)	center console RH side of gearshift selector	31-1	02-4
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		13-2
X8521	(9 PINS, BLACK)	under center of car above		13-3

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X9317	(6 PINS, YELLOW)	in lower LH C–pillar		05-3
X9320	(6 PINS, YELLOW)	in lower RH C–pillar		05-3
X9997	(2 PINS, ORANGE)	behind steering wheel	24-2	
X10010	GROUND	behind RH footwell trim above		
X10012	GROUND	behind RH footwell trim above	07-3	
X10013	(1 PIN, ---)	top of steering column		
X10015	(20 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10016	(20 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10017	(20 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10018	(32 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10026	(6 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10030	(5 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10034	(2 PINS, ---)	rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10035	(2 PINS, ---)	rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10036	(2 PINS, BLACK)	rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10054	(12 PINS, BLACK)	below LH side of dash RH side of steering column	28-1	02-6
X10065	(2 PINS, WHITE)	LH side of LH footwell under footrest		
X10070	(2 PINS, GRAY)	near LH headlight assembly	13-2	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
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		
X10092	(9 PINS, BLACK)	behind glove box left	25-2	03-6
X10094	(2 PINS, BLACK)	LH side of engine compartment		
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)	01-1	01-5
X10193	(9 PINS, BLACK)	behind glove box (glove box removed)		03-6
X10218	(3 PINS, NATURAL)	under RH front seat	24-1	01-1
X10223	(3 PINS, BLACK)	in convertible top compartment left	22-1	03-6
X10224	(2 PINS, BLACK)	in convertible top compartment left	22-1	
X10225	(3 PINS, BLACK)	underside of trunk lid		01-1
X10226	(9 PINS, BLACK)	behind glove box	25-2	03-6
X10238	(2 PINS, BLACK)	LH side of engine compartment		
X10239	(3 PINS, BLACK)	LH side of engine compartment		07-3
X10244	(1 PIN, BLACK)	below LH side of dash		
X10250	(2 PINS, ---)	behind LH footwell speaker grille		
X10261	(4 PINS, BLACK)	front RH side of engine compartment near RH headlight assembly	09-3	12-3
X10262	(9 PINS, BLACK)	below LH side of dash		03-6
X10267	(6 PINS, BLACK)	center console		05-3
X11166	GROUND	behind rear seats left	38-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X11205	(2 PINS, BLACK)	behind rear seats left	38-1	
X11209	(2 PINS, BLACK)	behind rear seats left	38-3	
X11211	(2 PINS, ---)	in convertible top compartment		
X11379	(3 PINS, BLACK)	RH top of radiator	09-3	06-3
X11382	(2 PINS, BLUE)	front cover	38-2	
X11383	(2 PINS, BLUE)	behind rear seats	38-3	
X11385	(3 PINS, BLACK)	front cover	38-2	01-1
X11386	(3 PINS, BLUE)	behind rear seats	38-3	01-1
X11390	(12 PINS, BLACK)	in lower LH C-pillar behind side panel	02-1	01-3
X13004	GROUND	in upper RH rear seatback	06-1	
X13006	GROUND	in upper LH rear seatback		
X13009	GROUND	behind RH footwell trim above	07-3	
X13016	GROUND	below LH side of dash	07-1	
X13025	(12 PINS, BLACK)	behind glove box (glove box removed)	01-3	02-6
X13026	(1 PIN, BLACK)	LH side of dash		
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
X13125	(3 PINS, YELLOW)	in lower LH C-pillar		01-1
X13126	(3 PINS, YELLOW)	in lower RH C-pillar		01-1
X13142	(2 PINS, WHITE)	behind rear seats	21-3	
X13143	(3 PINS, BLACK)	behind rear seats	38-3	01-1

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
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	35-3	
X13171	(3 PINS, NATURAL)	RH rear wheel well behind trim panel	35-1	06-4
X13172	(2 PINS, BLACK)	in LH rear side of luggage compartment	35-2	
X13226	(2 PINS, BLACK)	behind rear seats		
X13227	(2 PINS, BLACK)	behind rear seats		
X13230	GROUND	behind RH footwell trim above Convertible		
X13252	(15 PINS, YELLOW)	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		
X13283	(9 PINS, BLACK)	LH side of LH footwell		03-6

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X13305	(8 PINS, BLACK)	in LH rear side of luggage compartment		03-5
X18080	(1 PIN, NATURAL)	in luggage compartment		
X18126	(17 PINS, BLACK)	center console behind radio		02-3
X18154	(26 PINS, BLUE)	center console		00-2
X18155	(26 PINS, WHITE)	center console	03-2	00-2
X18156	(26 PINS, BLACK)	center console	03-2	00-2
X18157	(26 PINS, BLUE)	center console	03-2	00-2
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
X18277	(2 PINS, BLACK)	LH front door	32-2	
X18295	(2 PINS, YELLOW)	in lower RH B–pillar 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)		01-1
X18507	(2 PINS, – – –)	center console		
X18509	(8 PINS, – – –)	center console		
X18515	(2 PINS, – – –)	LH side of LH footwell behind trim panel		
X18518	(3 PINS, BLACK)	under RH front seat		01-1
X18520	(10 PINS, – – –)	center console RADIO		
X18521	(10 PINS, – – –)	RH side of luggage compartment CD CHANGER		
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		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X18798	(1 PIN, NATURAL)	in RH rear side of luggage compartment		
X19527	(16 PINS, BLACK)	below LH side of dash		05-5
X62101	(4 PINS, BLACK)	on catalytic converter		07-2
X62101	(4 PINS, BLACK)	top center of engine	36-3	07-2
X62102	(4 PINS, BLACK)	under center of car on catalytic converter		07-2
X62201	(4 PINS, BLACK)	top center of engine	36-3	07-2
X62202	(4 PINS, BLACK)	under center of car on catalytic converter		07-2
X90260	(3 PINS, BLACK)	RH side of steering column	37-3	01-1
Y1	ABS HYDRAULIC UNIT	rear LH side of engine compartment back of LH side shock tower	16-2	
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		
Y1w	ABS HYDRAULIC UNIT	LH side of engine compartment		
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	35-2	
Y199	CARBON CANISTER VALVE	in spare–wheel well	35-3	
Y5013	CHANGE–OVER VALVE	LH side of engine (M3)	14-2	
Y5020	VARIABLE CAMSHAFT CONTROL VALVE 1	RH front of engine (M3)	11-2	
Y5021	VARIABLE CAMSHAFT CONTROL VALVE 2	front of engine compartment (M3)		

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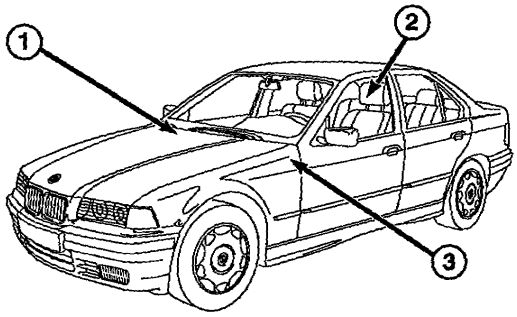
COMPONENT LOCATION CHART

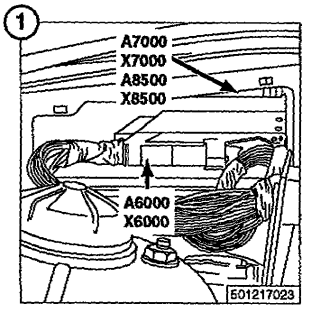
COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
Y6101	CYL. 1 FUEL INJECTION VALVE	RH front of engine (M3)	11-2	
Y6101	CYL. 1 FUEL INJECTION VALVE	top center of engine	12-3	
Y6102	CYL. 2 FUEL INJECTION VALVE	top center of engine	12-3	
Y6103	CYL. 3 FUEL INJECTION VALVE	top center of engine	12-3	
Y6104	CYL. 4 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	RH front of engine below intake manifold (325i)	11-3	
Y6130	IDLE SPEED CONTROL VALVE	rear LH side of engine compartment (M3)	14-3	
Y6131	INTAKE AIR RESONANCE CHANGEOVER VALVE	rear LH side of engine compartment		
Y6133	AIR PUMP	rear RH side of engine compartment	05-1	
Y6163	SECONDARY AIR PUMP VALVE	RH side of engine		
Y6208	CAMSHAFT ACTUATOR	front of engine compartment		
Y6275	VARIABLE CAMSHAFT CONTROL VALVE 1	top center of engine	36-2	
Y6550	SOLENOID VALVE ("RUNNING LOSSES")	lower front side of engine compartment		
Y8505y	TRANSMISSION VALVE UNIT	on LH side of transmission		

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COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

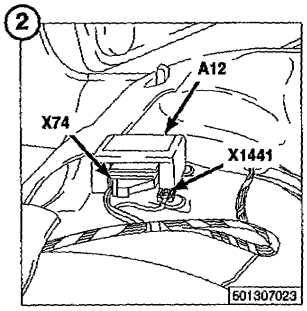




A6000 ENGINE CONTROL MODULE (DME) X6000 X7000 X8500

A7000 TRANSMISSION CONTROL MODULE (EGS)

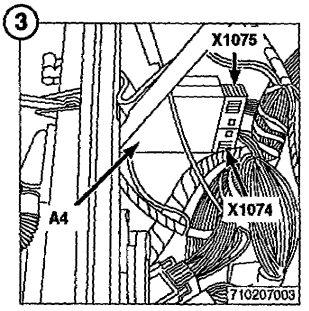
A8500 TRANSMISSION CONTROL MODULE (EGS)



A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE

X1441 GROUND

X74



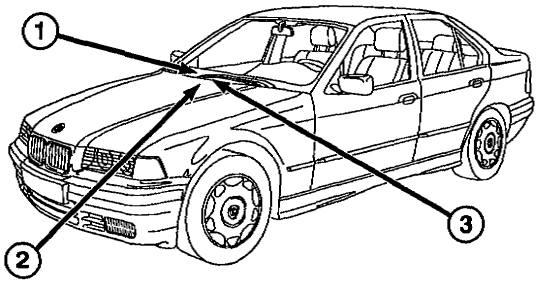
A4 CHECK CONTROL MODULE

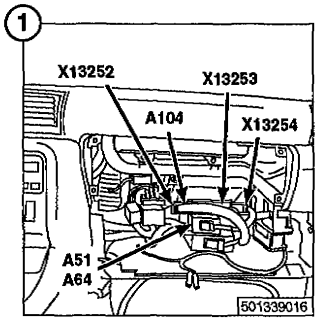
X1074 X1075

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COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



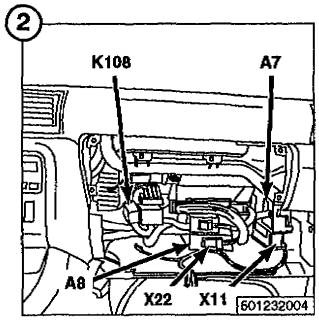


A51
WIPER/WASHER MODULE

A64
WIPER/WASHER MODULE (LOW II)

A104
BODY ELECTRONICS CONTROL MODULE (ZKE IV)

X13252
X13253
X13254

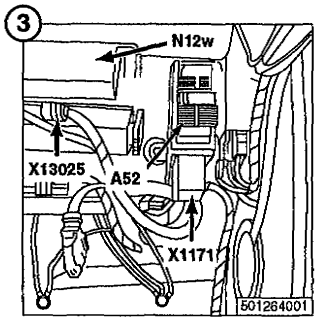


A7
SLIP CONTROL MODULE (ABS)

A8
CRUISE CONTROL MODULE (TEMPOMAT)

K108
HORN RELAY (ALPINE)

X11
X22
X1170

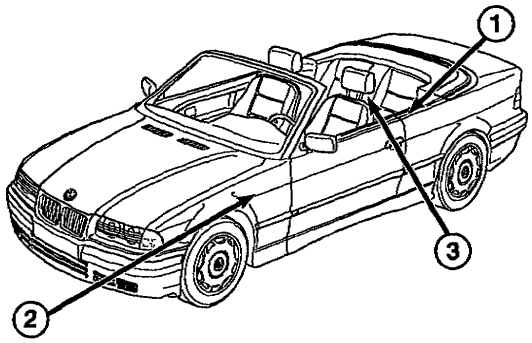


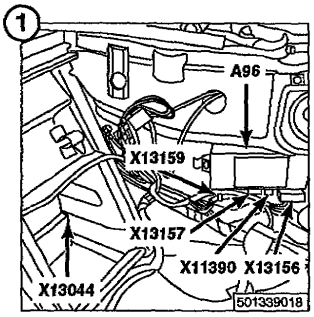
A52
SLIP CONTROL MODULE (ABS/ASC)

N12w
ANTI-THEFT CONTROL MODULE (ALPINE)

X1171
X13025

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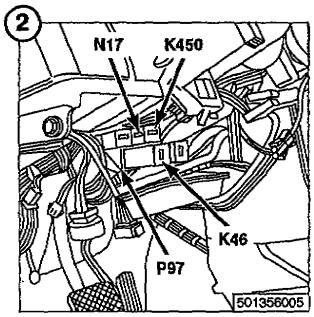




A96 CONVERTIBLE TOP CONTROL MODULE

X11390
X13044
X13156
X13157
X13159

CONVERTIBLE

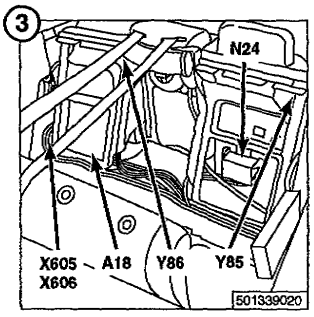


K46 HIGH BEAM LIGHT RELAY

K450 PARK VENTILATION RELAY

N17 CRASH CONTROL MODULE

P97 AUXILIARY FUSE BOX



A18 HIFI AMPLIFIER

N24 ROLLOVER SENSOR

Y85 LH ROLLOVER PROTECTION ACTUATOR

Y86 RH ROLLOVER PROTECTION ACTUATOR

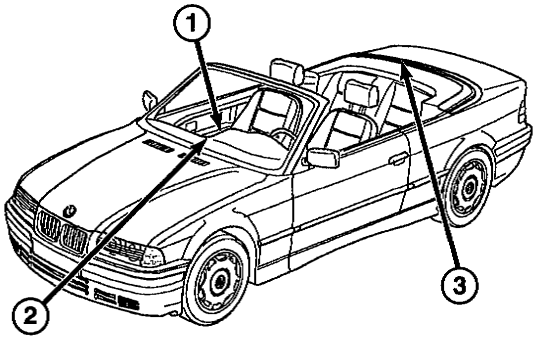
X605
X606

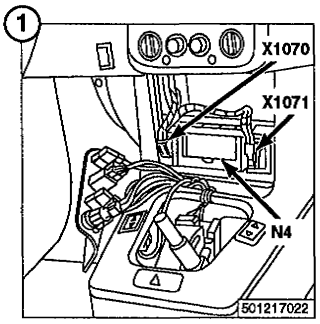
CONVERTIBLE

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COMPONENT LOCATION VIEWS

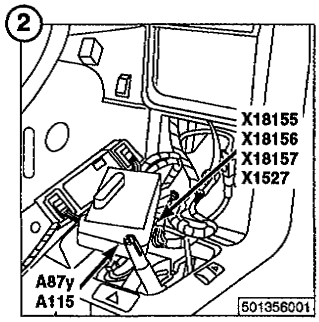
ELECTRICAL CONTROL MODULE LOCATIONS





N4
ON-BOARD
COMPUTER

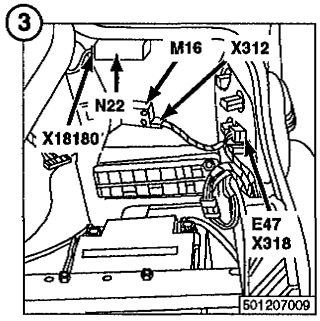
X1070
X1071



A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL
MODULE

A115
AUTOMATIC
CLIMATE CONTROL
MODULE

X1527
X18155
X18156
X18157



E47
RIGHT TRUNK
LIGHT ASSEMBLY

X312
X318
X18180

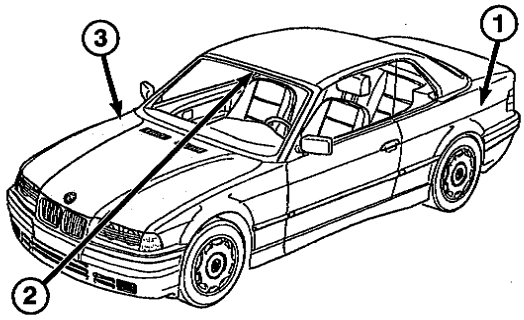
M16
GAS FILLER LOCK
MOTOR

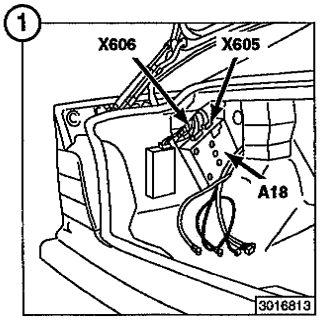
N22
CD CHANGER

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COMPONENT LOCATION VIEWS

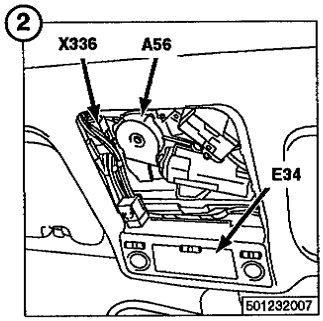
ELECTRICAL CONTROL MODULE LOCATIONS





A18
HIFI AMPLIFIER

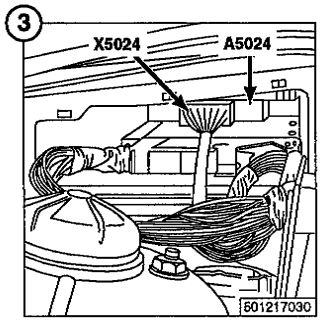
X605
X606



A56
SUNROOF CONTROL ASSEMBLY

E34
FRONT DOME LIGHT/MAP READING ASSEMBLY

X336



A5024
VARIABLE CAMSHAFT CONTROL MODULE (VANOS)

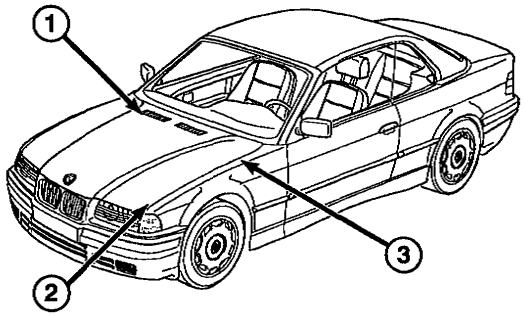
X5024

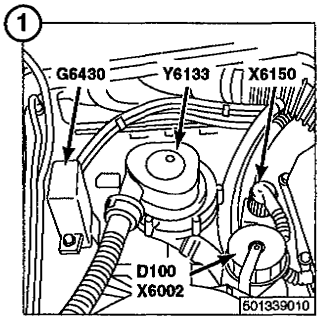
M3 CDN

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COMPONENT LOCATION VIEWS

B(+)

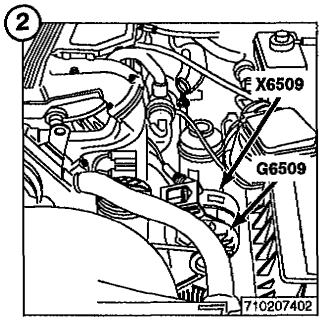




D100 X6002
DATA LINK X6150
CONNECTOR

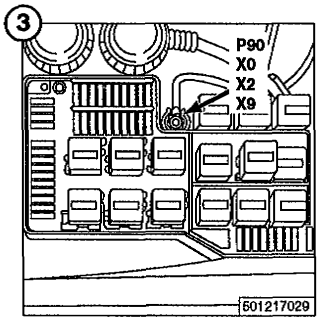
G6430
B+ JUMP START
JUNCTION POINT

Y6133
AIR PUMP



G6509
GENERATOR

X6509
CABLE SOCKET
ALTERNATOR B+



P90
FRONT POWER
DISTRIBUTION BOX

X1
B+ JUNCTION
POINT

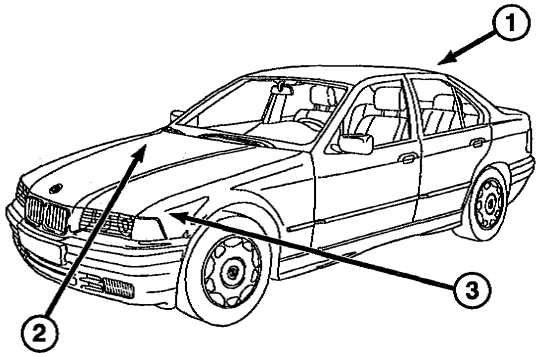
X2
BATTERY B+
START POINT

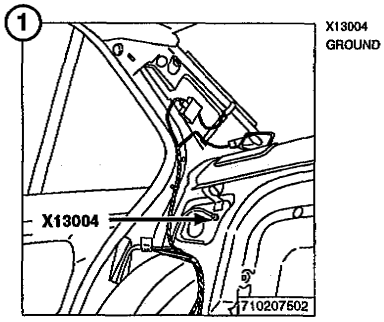
X9
B+ JUNCTION
POINT

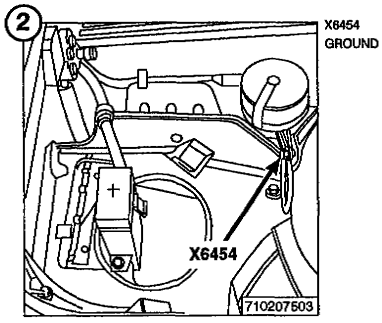
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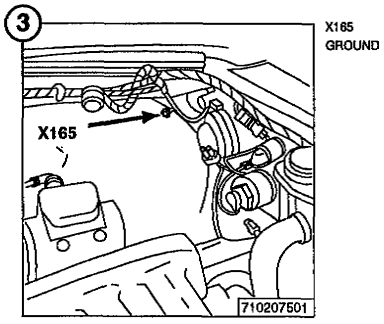
COMPONENT LOCATION VIEWS

B(-)





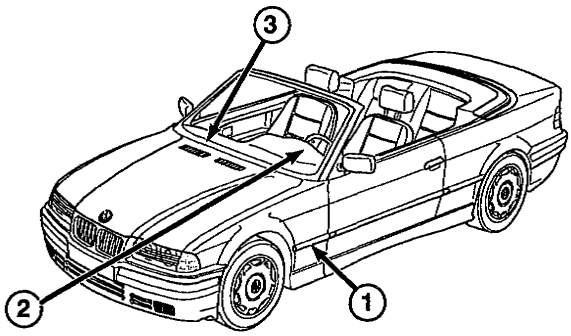


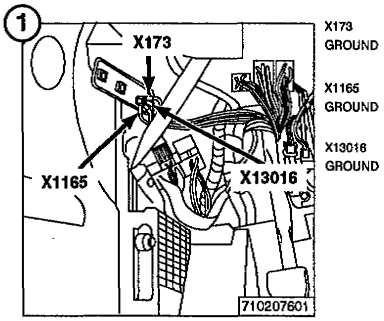


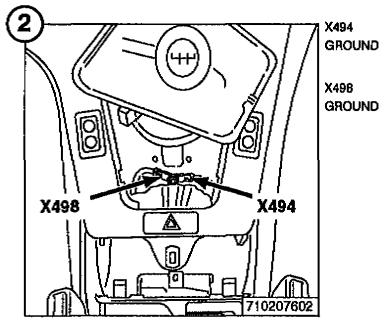
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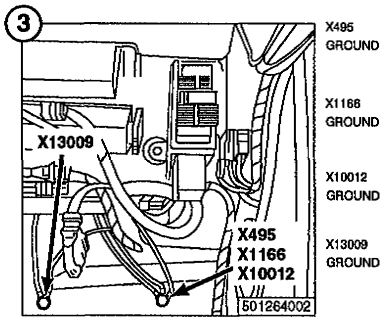
COMPONENT LOCATION VIEWS

B(-)



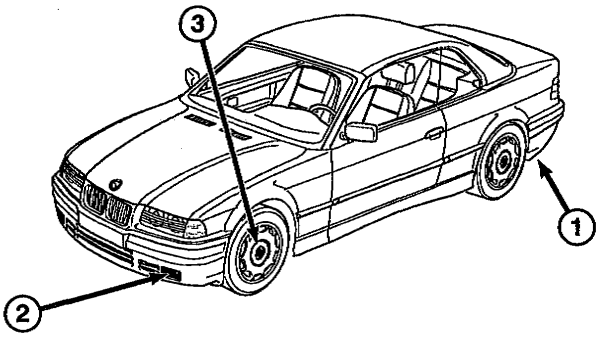


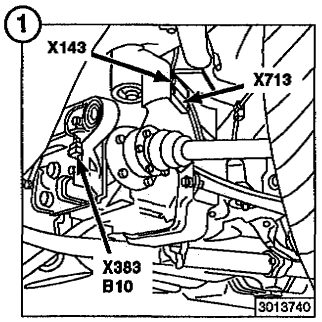




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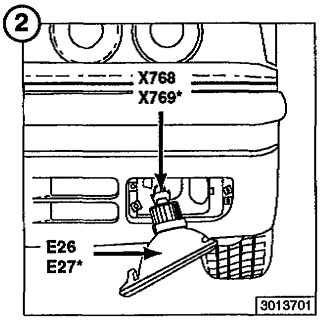
COMPONENT LOCATION VIEWS





B10
VEHICLE SPEED SENSOR

X143
X383
X713

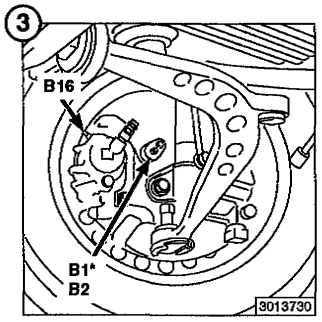


E26
LEFT FOG LIGHT

E27 *
RIGHT FOG LIGHT

X768
X769 *

*RH similar



B1 *
RIGHT FRONT SPEED SENSOR – ABS

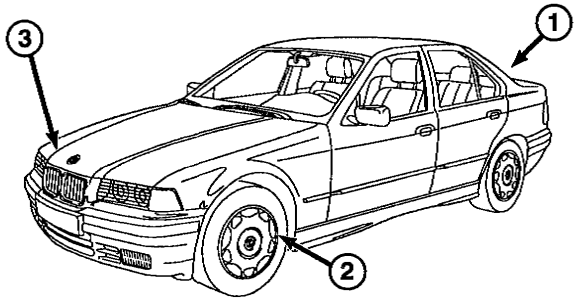
B2
LEFT FRONT SPEED SENSOR – ABS

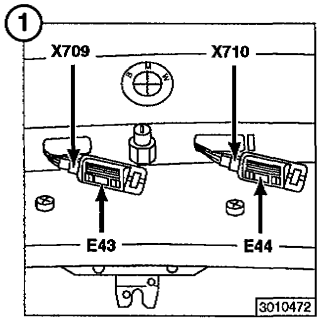
B16
LEFT FRONT BRAKE PAD SENSOR

*RH similar

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COMPONENT LOCATION VIEWS

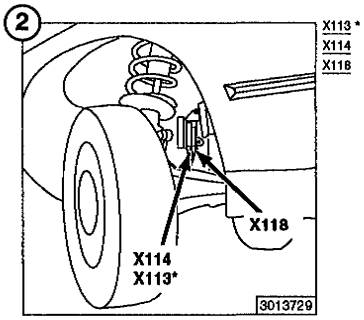




E43
LEFT LICENSE PLATE LIGHT

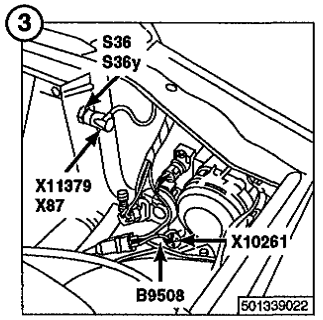
E44
RIGHT LICENSE PLATE LIGHT

X709
X710



X113 *
X114
X118

*RH similar



B9508
PRESSURE SWITCH

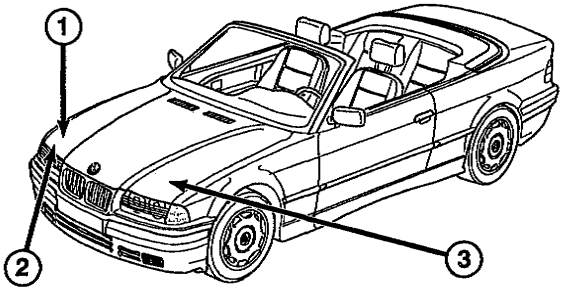
S36
TEMPERATURE SWITCH

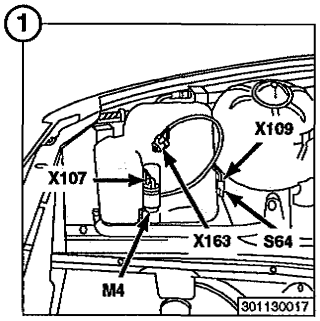
S36y
DOUBLE TEMPERATURE SWITCH

X87
X10261
X11379

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COMPONENT LOCATION VIEWS

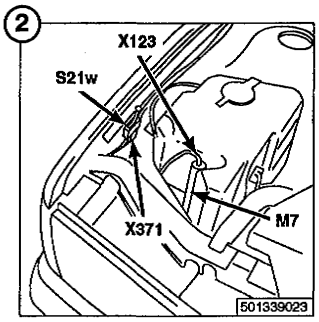




M4
WASHER PUMP

S64
WASHER FLUID
LEVEL SWITCH

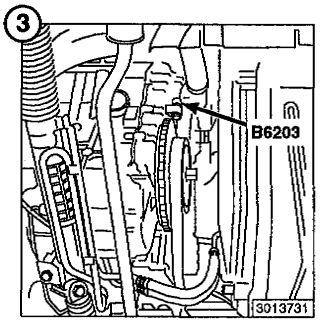
X107
X109
X163



M7
HEADLIGHT/FOG
LIGHT WASHER
PUMP

S21w
ENGINE HOOD
SWITCH

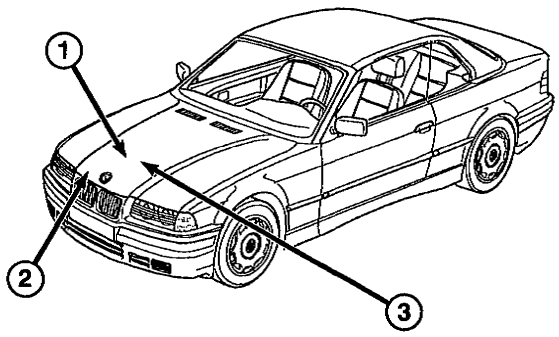
X123
X371

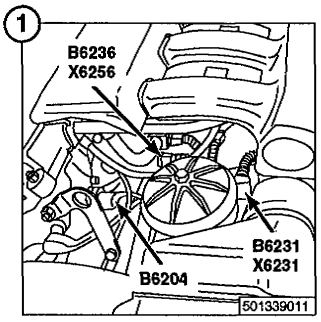


B6203
CRANKSHAFT
POSITION/RPM
SENSOR

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COMPONENT LOCATION VIEWS



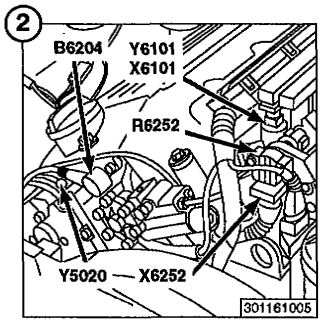


B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) X6231 X6256

B6231 OIL PRESSURE SWITCH

B6236 ENGINE COOLANT TEMPERATURE SENSOR

325i

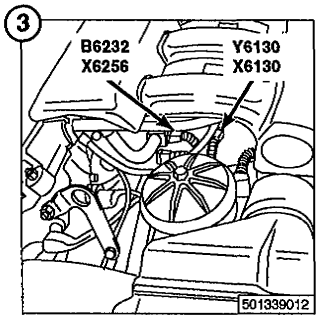


B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) Y6101 CYL. 1 FUEL INJECTION VALVE

R6252 THROTTLE POSITION SENSOR X6101 X6252

Y5020 VARIABLE CAMSHAFT CONTROL VALVE 1

M3 CDN



B6232 ENGINE COOLANT TEMPERATURE SENSOR

Y6130 IDLE SPEED CONTROL VALVE

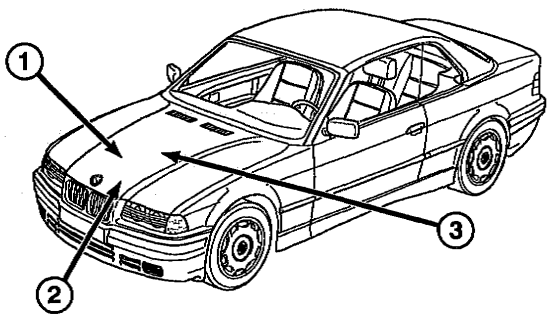
X6456 GROUND

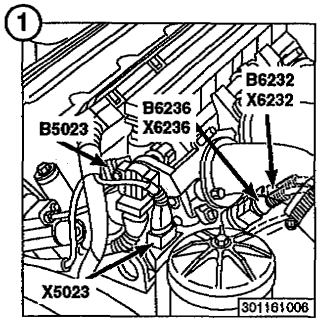
X6130 X6256

325i

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COMPONENT LOCATION VIEWS



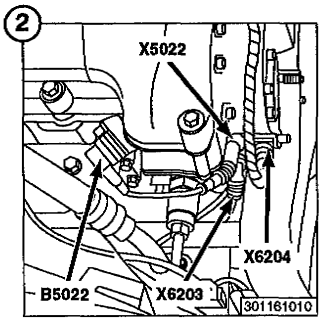


M3 CDN

B5023 VARIABLE CAMSHAFT CONTROL SENSOR 2 — X5023, X6232, X6236

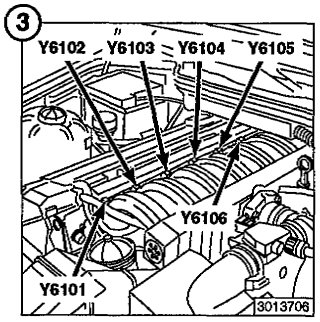
B6232 ENGINE COOLANT TEMPERATURE SENSOR

B6236 ENGINE COOLANT TEMPERATURE SENSOR



M3 CDN

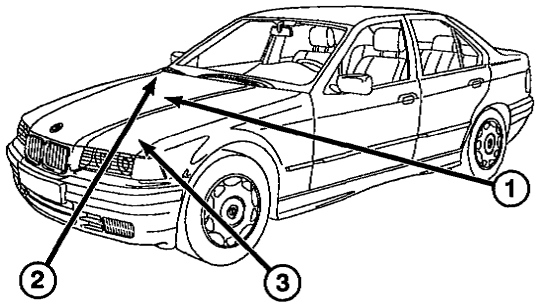
B5022 VARIABLE CAMSHAFT CONTROL SENSOR 1 — X5022, X6203, X6204

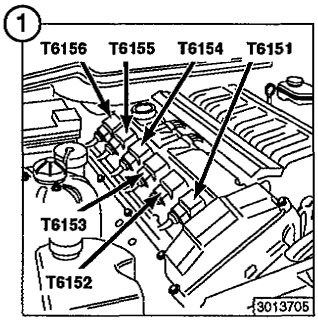


Y6101 CYL. 1 FUEL INJECTION VALVE	Y6104 CYL. 4 FUEL INJECTION VALVE
Y6102 CYL. 2 FUEL INJECTION VALVE	Y6105 CYL. 5 FUEL INJECTION VALVE
Y6103 CYL. 3 FUEL INJECTION VALVE	Y6106 CYL. 6 FUEL INJECTION VALVE

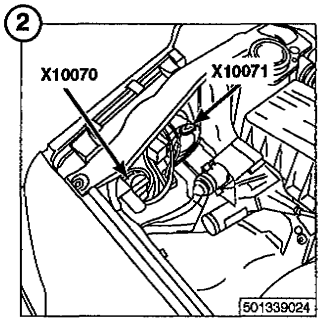
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COMPONENT LOCATION VIEWS

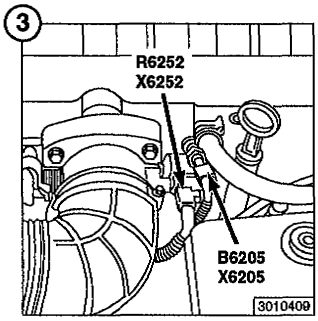




T6151 CYL. 1 IGNITION COIL
T6154 CYL. 4 IGNITION COIL
T6152 CYL. 2 IGNITION COIL
T6155 CYL. 5 IGNITION COIL
T6153 CYL. 3 IGNITION COIL
T6156 CYL. 6 IGNITION COIL



X10070
X10071



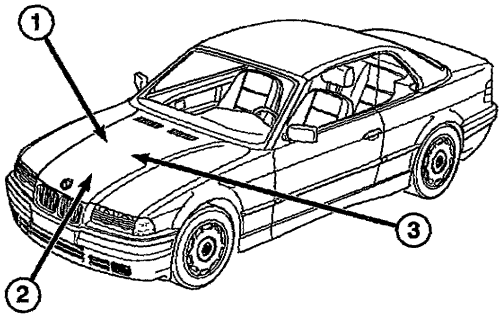
B6205 INTAKE AIR TEMPERATURE SENSOR

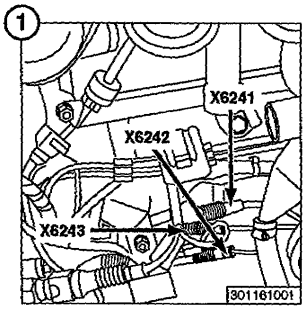
R6252 THROTTLE POSITION SENSOR

X6205
X6252

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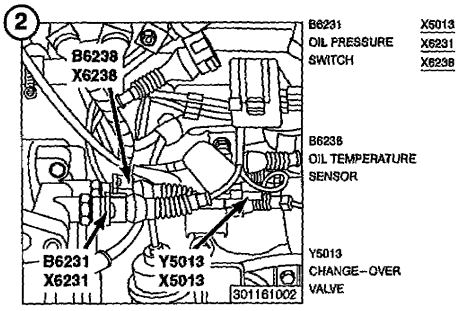
COMPONENT LOCATION VIEWS





X6241
X6242
X6243

M3 CDN

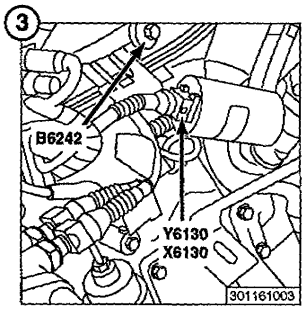


B6231 OIL PRESSURE SWITCH — X5013, X6231, X6238

B6238 OIL TEMPERATURE SENSOR

Y5013 CHANGE-OVER VALVE

M3 CDN



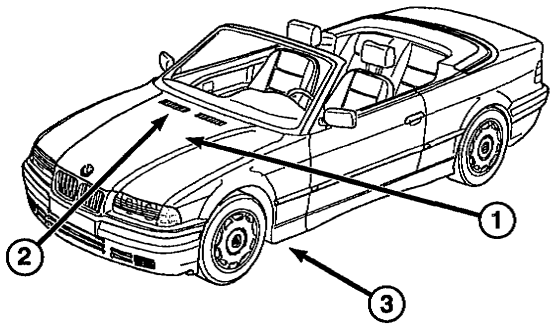
B6242 CYL 3-4 KNOCK SENSOR

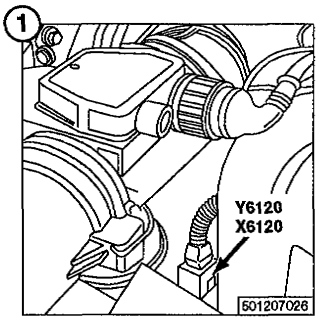
Y6130 IDLE SPEED CONTROL VALVE — X6130

M3 CDN

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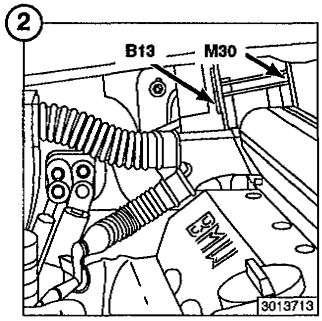
COMPONENT LOCATION VIEWS





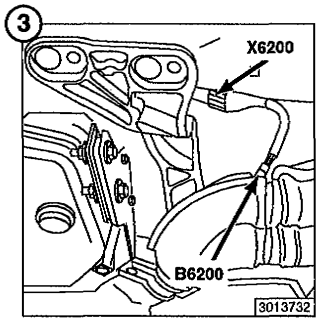
1 Y6120
EVAPORATIVE EMISSION VALVE

X6120



2 B13
OUTSIDE TEMPERATURE SENSOR

M30
BLOWER MOTOR

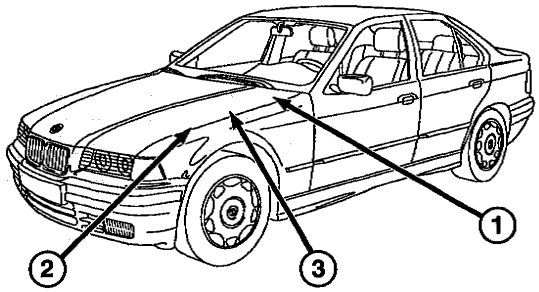


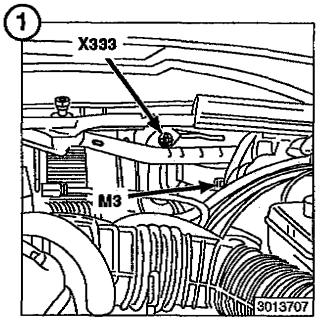
3 B6200
HEATED OXYGEN SENSOR

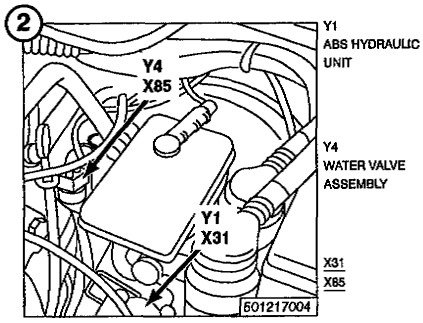
X6200

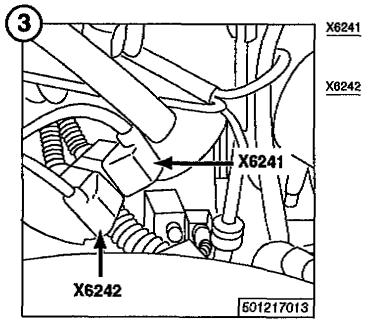
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COMPONENT LOCATION VIEWS





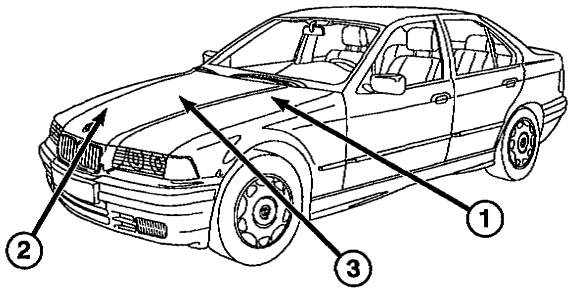


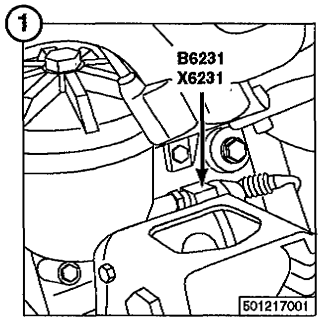


318is

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COMPONENT LOCATION VIEWS

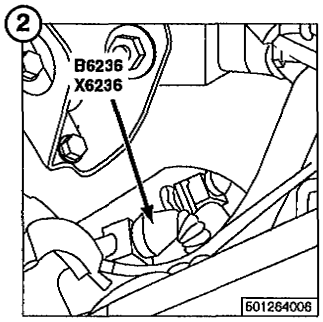




B6231
OIL PRESSURE SWITCH

X6231

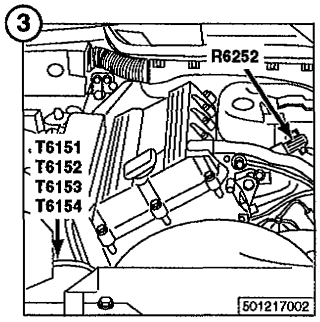
318is



B6236
ENGINE COOLANT TEMPERATURE SENSOR

X6236

318is



R6252
THROTTLE POSITION SENSOR

T6153
CYL. 3 IGNITION COIL

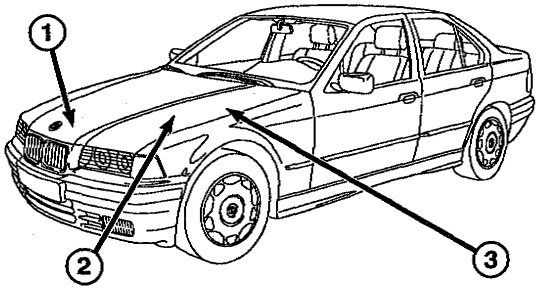
T6151
CYL. 1 IGNITION COIL

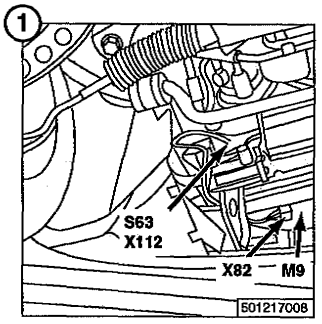
T6154
CYL. 4 IGNITION COIL

T6152
CYL. 2 IGNITION COIL

318is

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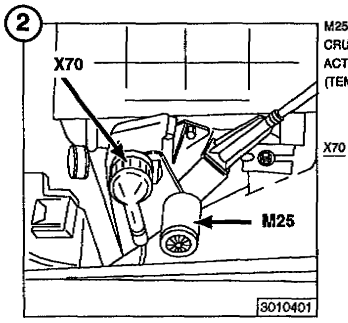


M9
AUXILIARY FAN
MOTOR

S63
ENGINE COOLANT
LEVEL SWITCH

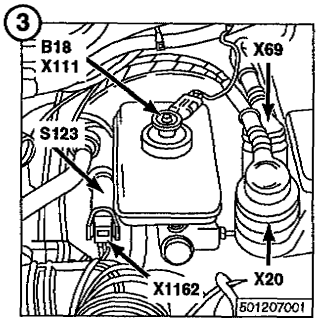
X82
X112

318is



M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

X70



B18
BRAKE FLUID
LEVEL SWITCH

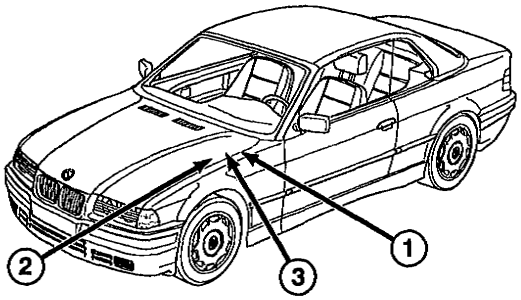
S123
ABS PEDAL
TRAVEL SENSOR

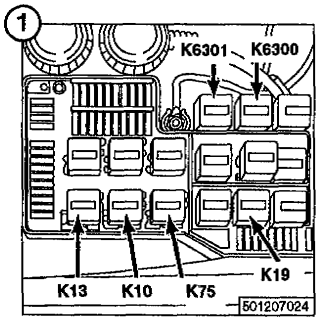
X20
X69
X111
X1162

325i

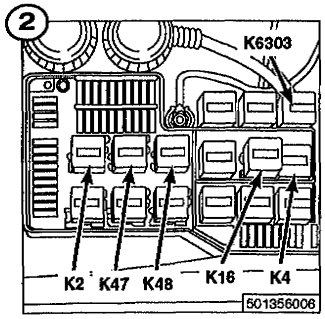
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COMPONENT LOCATION VIEWS

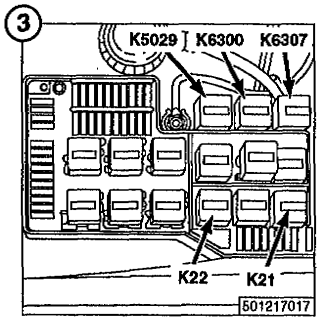




K10	ABS RELAY	K75	ABS PUMP MOTOR RELAY
K13	REAR DEFOGGER RELAY	K6300	ENGINE CONTROL MODULE RELAY
K19	COMPRESSOR CONTROL RELAY	K6301	CYL. 1–6 FUEL PUMP RELAY



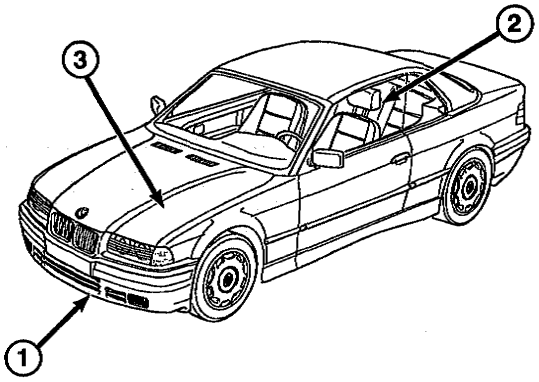
K2	HORN RELAY	K47	FRONT FOG LIGHT RELAY
K4	BLOWER RELAY	K48	LOW BEAM LIGHT RELAY
K16	HAZARD FLASHER RELAY	K6303	OXYGEN SENSOR RELAY

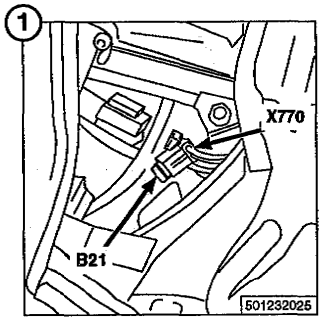


K21	NORMAL SPEED RELAY	K6300	ENGINE CONTROL MODULE RELAY
K22	HIGH SPEED RELAY	K6307	FUEL PUMP/START IDENTIFICATION RELAY
K5029	DOUBLE RELAY		

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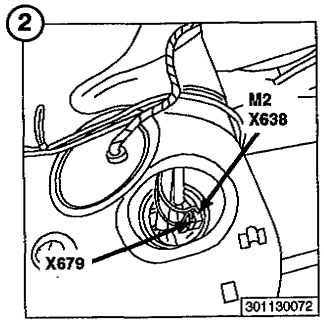
COMPONENT LOCATION VIEWS





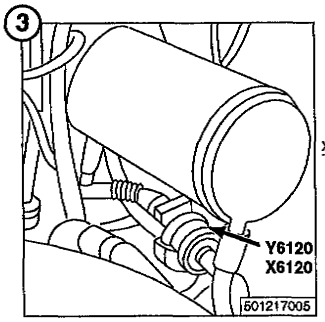
B21
ON-BOARD
COMPUTER
TEMPERATURE
SENSOR

X770



M2
FUEL PUMP

X638
X679



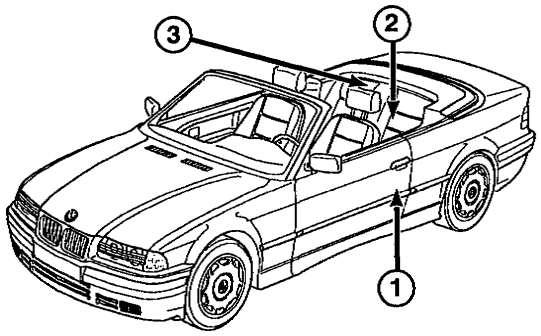
Y6120
EVAPORATIVE
EMISSION VALVE

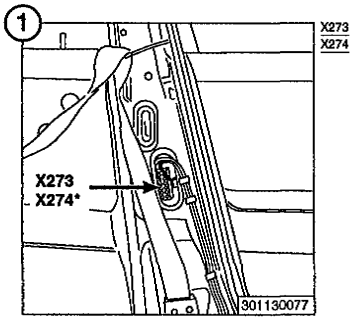
X6120

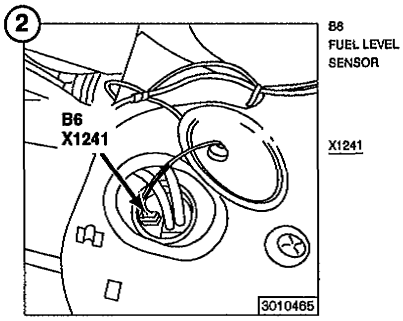
318is

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COMPONENT LOCATION VIEWS

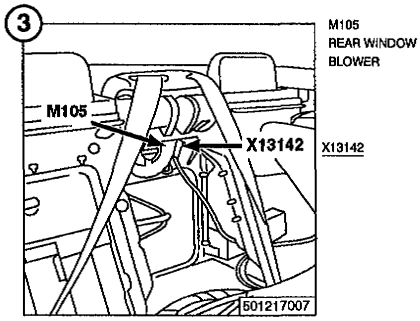






B6
FUEL LEVEL
SENSOR

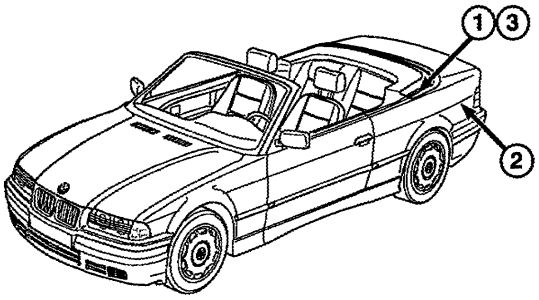
X1241

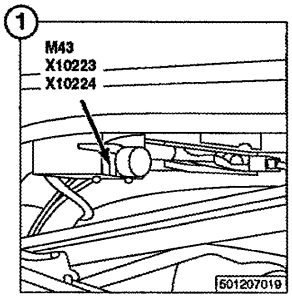


M105
REAR WINDOW
BLOWER

X13142

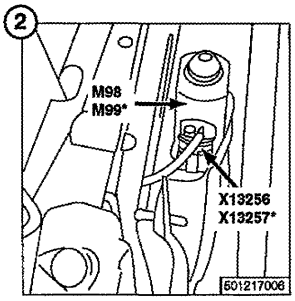
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M43
CONVERTIBLE TOP
STORAGE LID
LOCK MOTOR

X10223
X10224

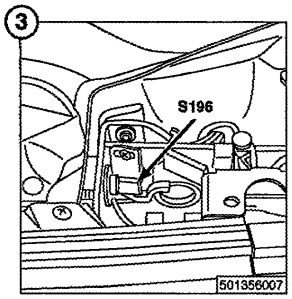


M98 *
LEFT REAR
WINDOW MOTOR

M99 *
RIGHT REAR
WINDOW MOTOR

X13256
X13257

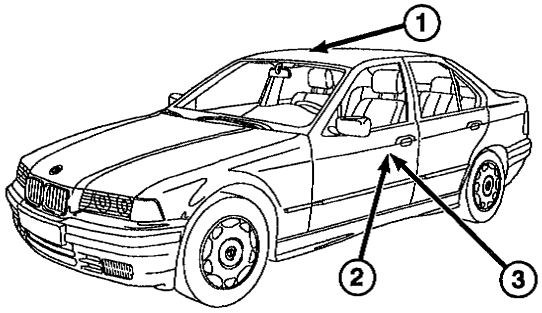
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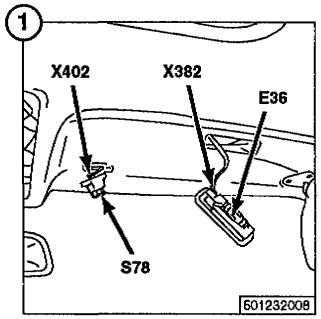


S196
REAR WINDOW
BLOWER MICRO
SWITCH

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COMPONENT LOCATION VIEWS

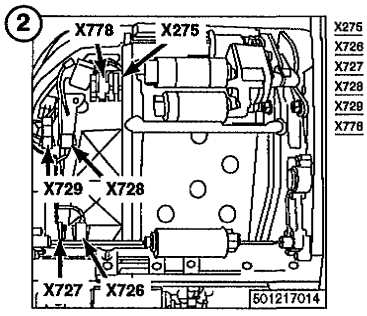




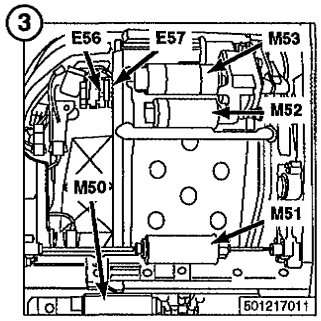
E36
PASSENGER'S MAKEUP MIRROR LIGHT

S78
PASSENGER'S MAKEUP 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

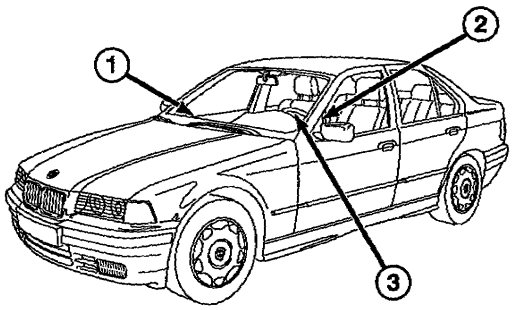
M51
DRIVER'S SEAT MOVEMENT MOTOR

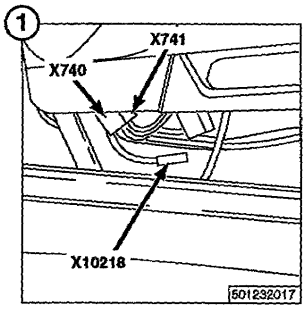
M52
DRIVER'S SEAT HEIGHT MOTOR

M53
DRIVER'S SEAT-BACK RECLINER MOTOR

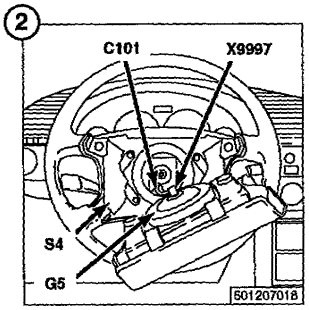
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COMPONENT LOCATION VIEWS





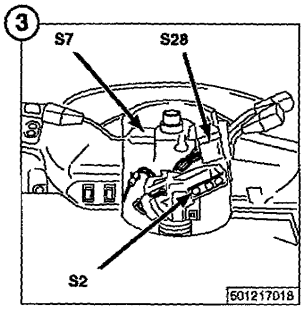
X740
X741
X10218



C101 X9997
CONTACT RING

G5
DRIVER'S AIR BAG GAS GENERATOR

S4
HORN SWITCH



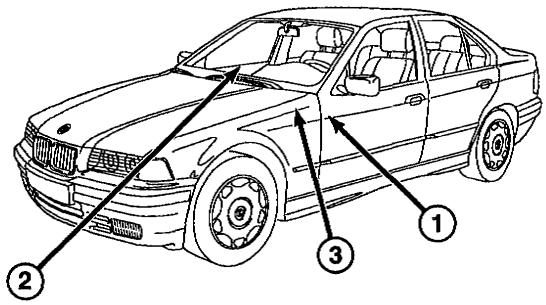
S2
IGNITION SWITCH

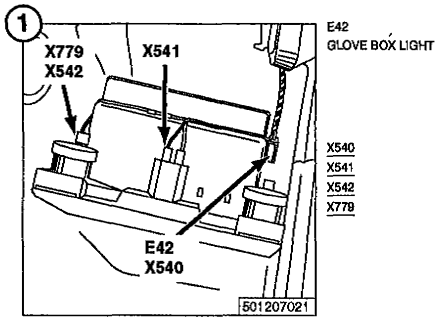
S7
COMBINATION SWITCH

S28
CRUISE CONTROL SWITCH

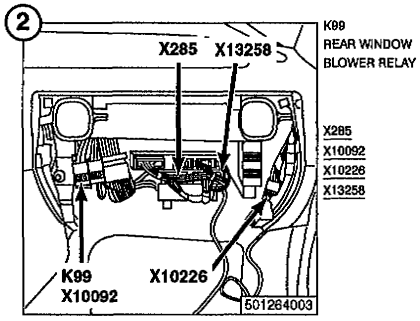
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COMPONENT LOCATION VIEWS

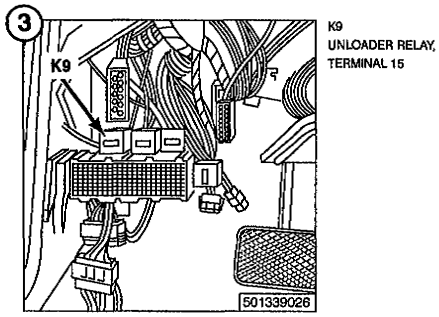




E42
GLOVE BOX LIGHT



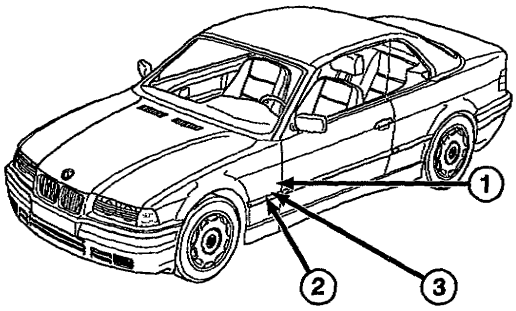
K99
REAR WINDOW
BLOWER RELAY

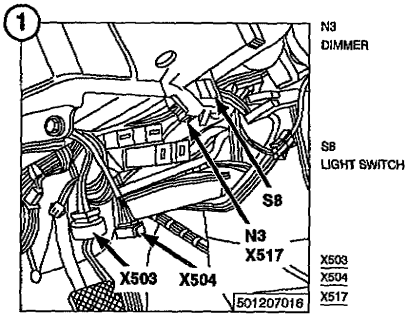


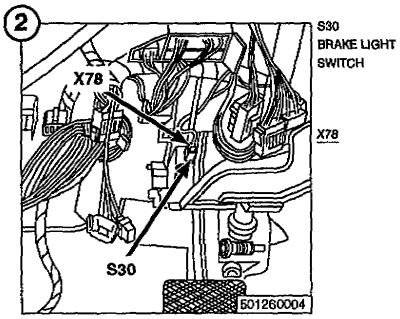
K9
UNLOADER RELAY,
TERMINAL 15

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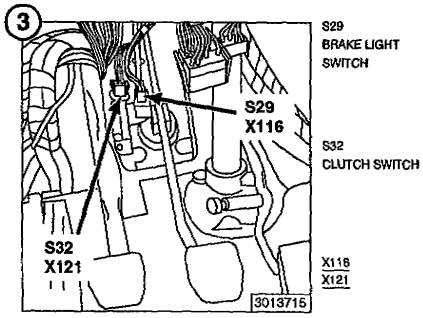
COMPONENT LOCATION VIEWS







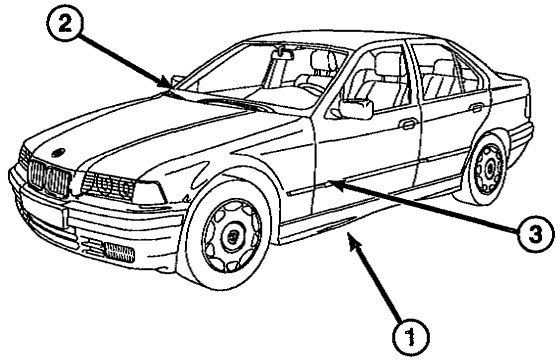
AUTOMATIC

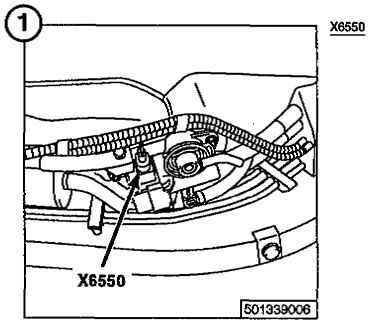


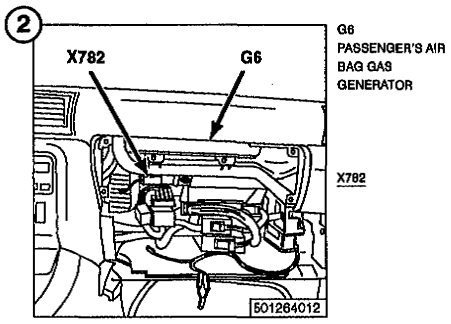
MANUAL

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COMPONENT LOCATION VIEWS

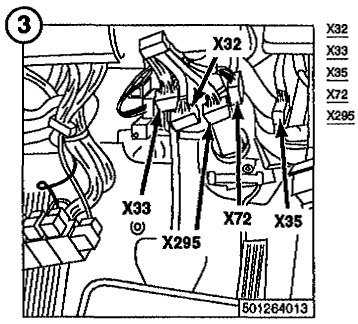






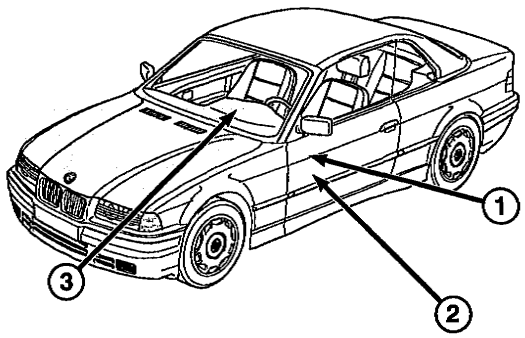
G6
PASSENGER'S AIR BAG GAS GENERATOR

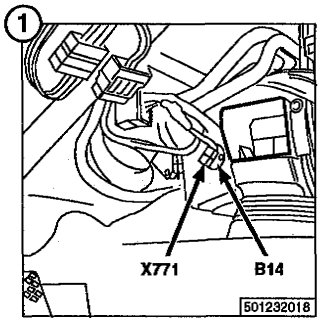
X782



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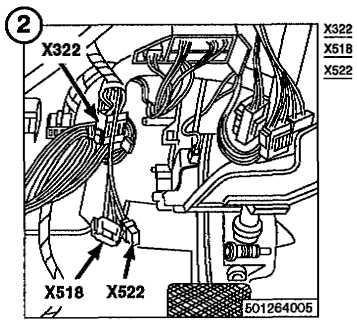
COMPONENT LOCATION VIEWS



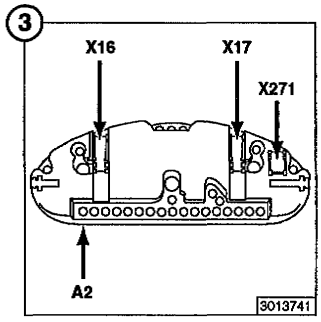


B14
EVAPORATOR
TEMPERATURE
SENSOR

X771
X10054



X322
X518
X522

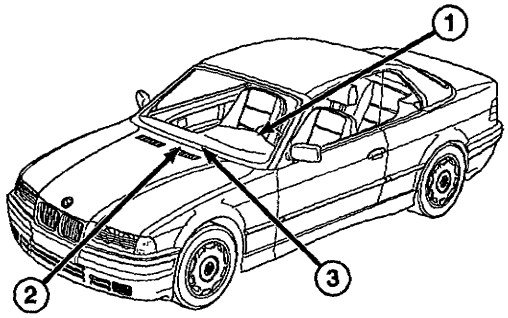


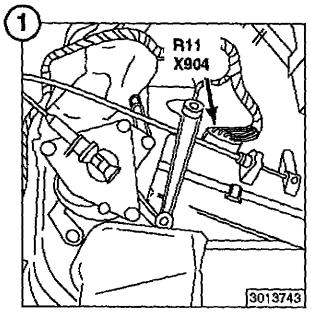
A2
INSTRUMENT
CLUSTER

X16
X17
X271

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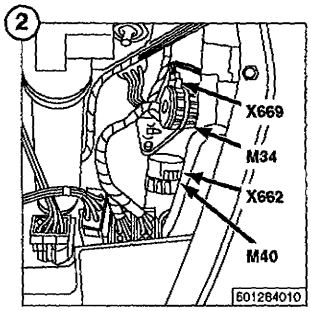
COMPONENT LOCATION VIEWS





R11
BLOWER
RESISTORS

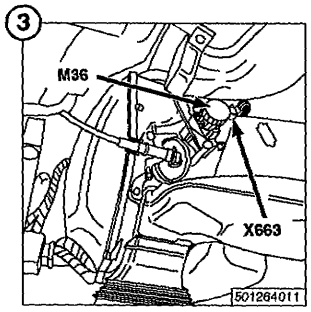
X904



M34
DASH VENT MIX-
ING FLAP MOTOR

M40
RECIRCULATION
FLAP MOTOR

X662
X669

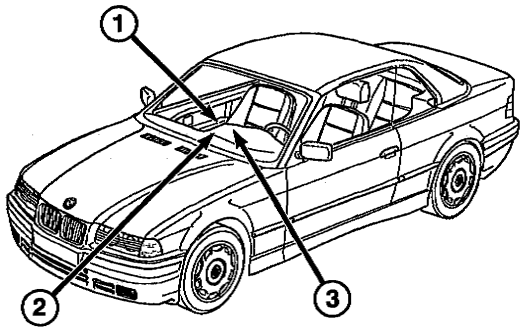


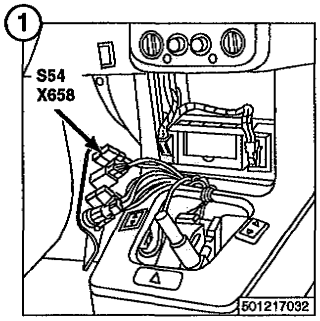
M36
FRESH AIR FLAP
MOTOR

X663

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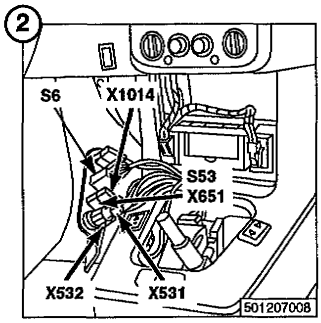
COMPONENT LOCATION VIEWS





S54
PASSENGER'S SEAT, SEAT HEATER SWITCH

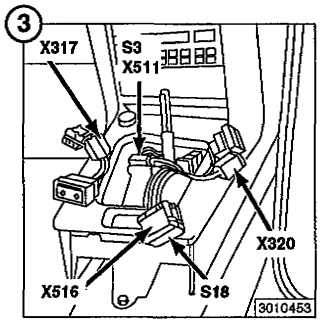
X658



S6
ASC SWITCH

S53
DRIVER'S SEAT, SEAT HEATER SWITCH

X531
X532
X651
X1014



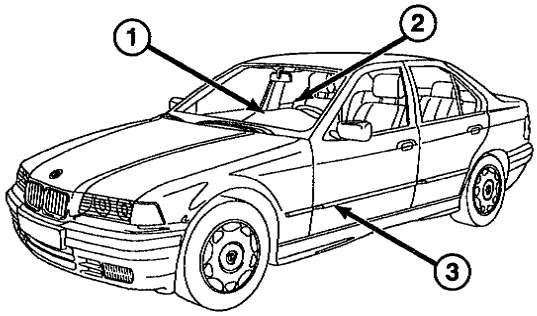
S3
AUTOMATIC TRANSMISSION RANGE SWITCH

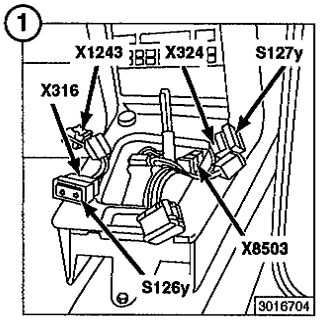
S18
HAZARD SWITCH

X317
X320
X511
X516

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COMPONENT LOCATION VIEWS

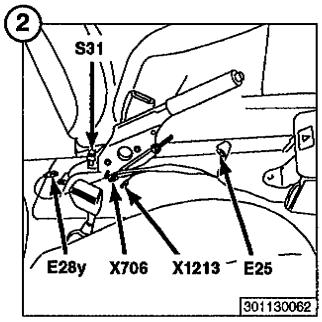




S126y
DRIVER'S POWER WINDOW SWITCH

S127y
PASSENGER'S POWER WINDOW SWITCH

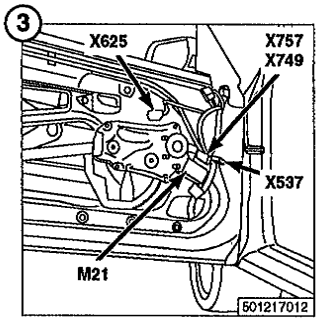
X316
X324
X1243
X8503



E25
FRONT ASHTRAY LIGHT
X706
X1213

E28y
REAR ASHTRAY LIGHT

S31
PARK BRAKE SWITCH

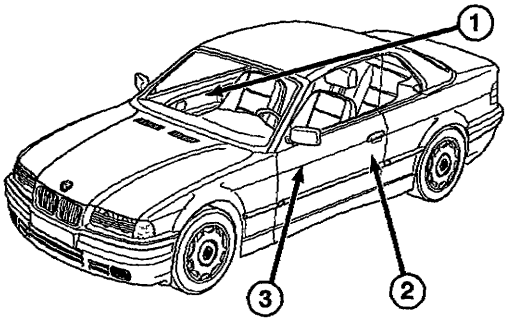


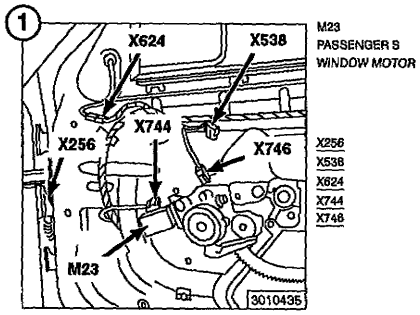
M21
DRIVER'S WINDOW MOTOR

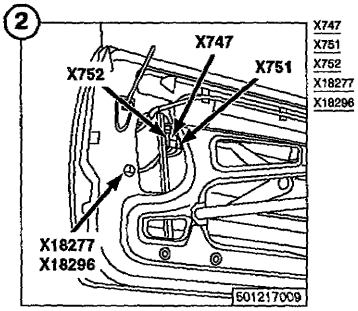
X537
X625
X749
X757

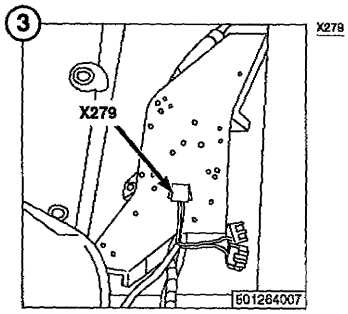
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COMPONENT LOCATION VIEWS



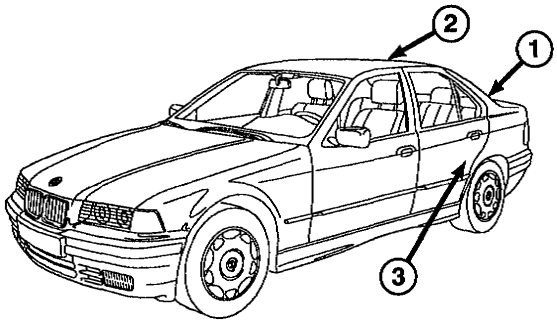


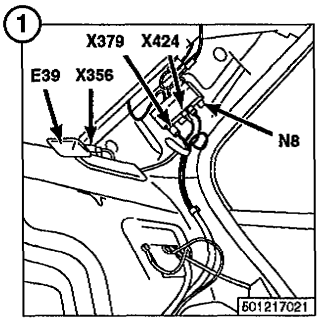




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COMPONENT LOCATION VIEWS

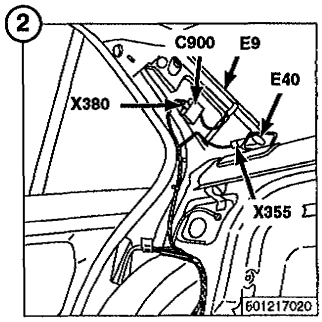




E39
LEFT REAR
INTERIOR LIGHT

N8
ANTENNA
AMPLIFIER AM/FM

X356
X379
X424

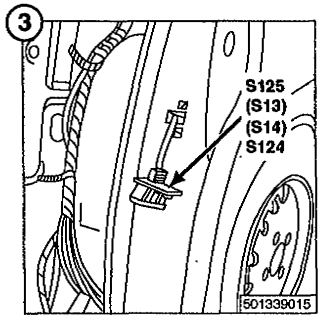


C900
SUPPRESSION
FILTER

X355
X380

E9
REAR DEFOGGER

E40
RIGHT REAR
INTERIOR LIGHT



S13
PASSENGER'S
DOOR JAMB
SWITCH

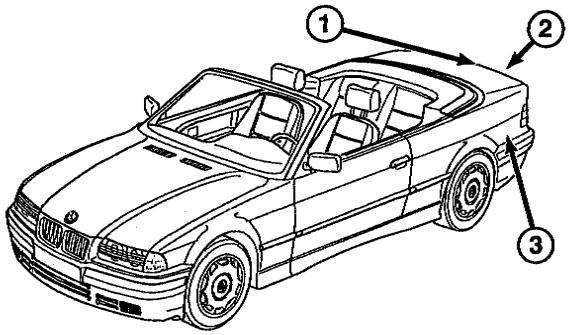
S125
LEFT REAR DOOR
CONTACT

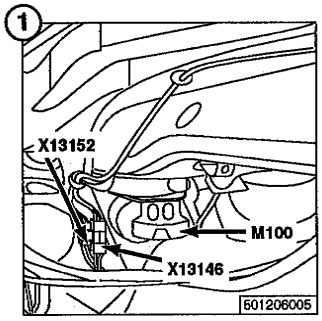
S14
DRIVER'S DOOR
JAMB SWITCH

S124
RIGHT REAR DOOR
CONTACT

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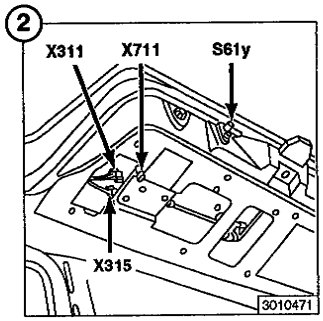
COMPONENT LOCATION VIEWS





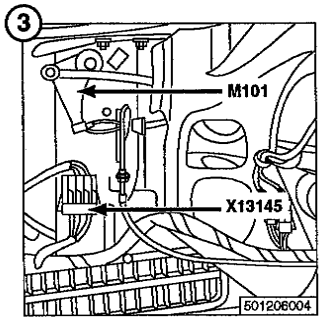
M100
CONVERTIBLE TOP
STORAGE LID
MOTOR

X13146
X13152



S61y
TRUNK LIGHT
SWITCH

X311
X315
X711

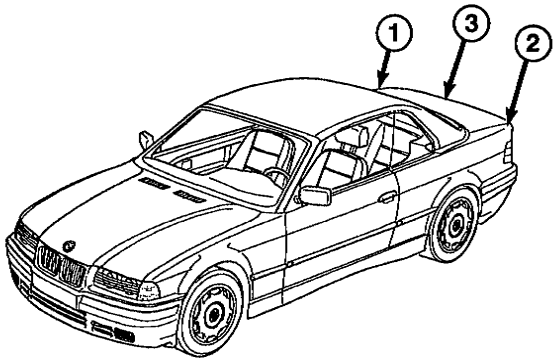


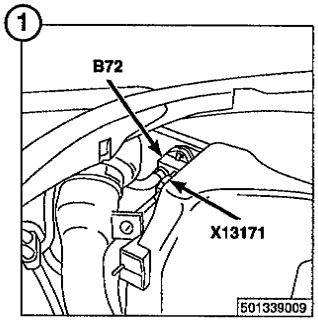
M101
CONVERTIBLE TOP
MOTOR

X13145

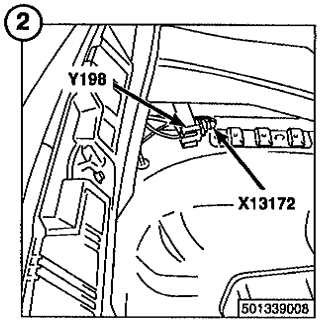
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COMPONENT LOCATION VIEWS

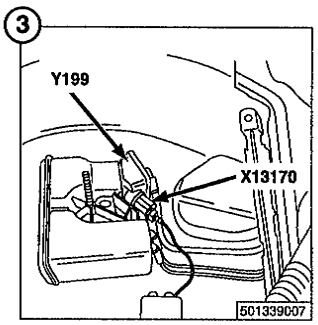




B72
FUEL TANK PRESSURE SENSOR

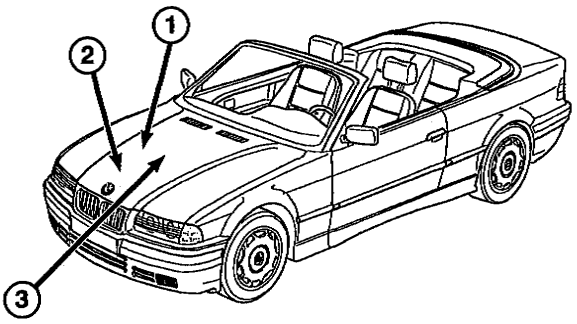


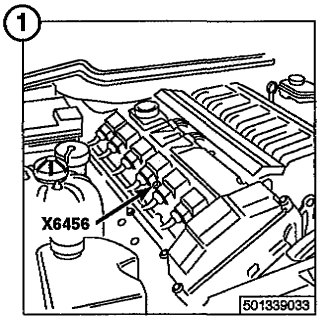
Y198
EXHAUST GAS FLAP VALVE



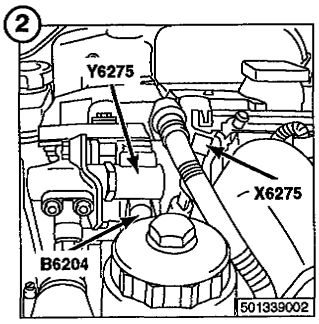
Y199
CARBON CANISTER VALVE

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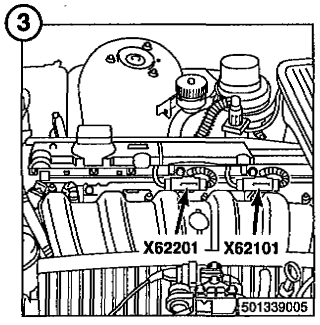
X6456
GROUND



B6204
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)

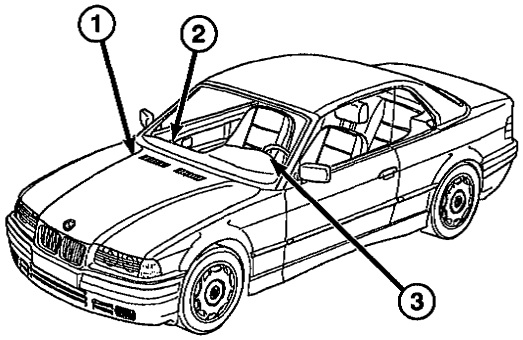
Y6275
VARIABLE CAMSHAFT CONTROL VALVE 1

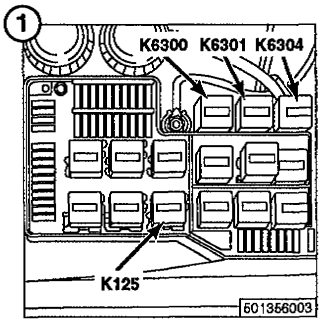
X6275



X62101
X62201

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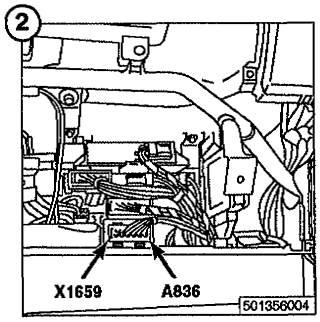


K125
ABS PUMP MOTOR RELAY, TIMED

K6300
ENGINE CONTROL MODULE RELAY

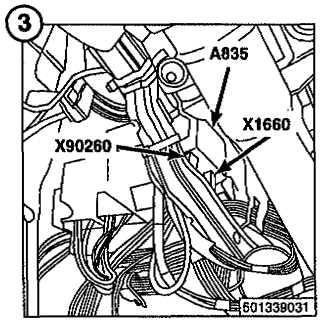
K6301
CYL. 1–6 FUEL PUMP RELAY

K6304
SECONDARY AIR PUMP RELAY



A836
ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)

X1659



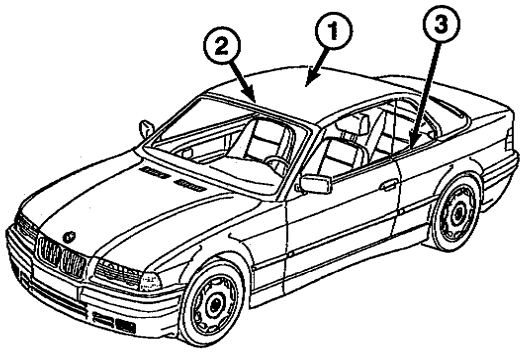
A835
TRANSMITTER MODULE (EWS II)

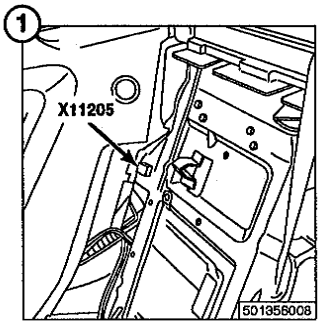
X1660
X90260

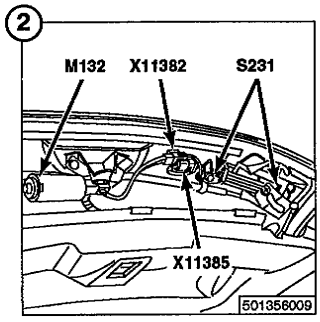
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COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



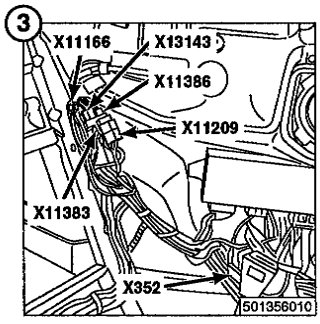




M132
WINDSCREEN COWL PANEL LOCK MOTOR

S231
WINDSCREEN COWL PANEL LOCK MICRO-SWITCH

X11382
X11385



X352
X11166
X11209
X11383
X11386
X13143

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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	REAR, CONVERTIBLE	8000.0–04
X441–X456	REAR, CONVERTIBLE	8000.0–04
X460–X462	REAR, CONVERTIBLE	8000.0–04
X465–X481	REAR, CONVERTIBLE	8000.0–04
X530–X595	FRONT	8000.0–02
X805	REAR	8000.0–03
X805	REAR, CONVERTIBLE	8000.0–04
X824–X830	RADIO	NOT SHOWN
X849–X851	DRIVER'S DOOR	NOT SHOWN
X876–X878	RADIO	NOT SHOWN
X906	IHKR	NOT SHOWN
X942	PASSENGER'S DOOR	NOT SHOWN
X1015–X1164	FRONT	8000.0–02
X1167	REAR	8000.0–03
X1168–X1192	FRONT	8000.0–02
X1212–X1218	REAR	8000.0–03
X1212–X1238	REAR, CONVERTIBLE	8000.0–04
X1225–X1233	FRONT	8000.0–02
X1226–X1235	REAR	8000.0–03
X1258	FRONT	8000.0–02
X1299	REAR	8000.0–03
X1382–X1383	RADIO	W22
X1387–X1396	REAR	8000.0–03
X1387–X1396	REAR, CONVERTIBLE	8000.0–04

SPLICE	HARNESS	PAGE NUMBER
X5018–X5035	S50 ENGINE	8000.0–06
X6410	M42/M43 ENGINE	8000.0–05
X6410	M50 ENGINE	8000.0–07
X6410–X6411	M44 ENGINE	8000.0–08
X6410–X6492	S50 ENGINE	8000.0–06
X6411	M50 ENGINE	8000.0–07
X6411–X6420	M52 ENGINE	8000.0–09
X6458–X6459	M52 ENGINE	8000.0–09
X6458–X6492	M42/M43 ENGINE	8000.0–05
X6458–X6461	M50 ENGINE	8000.0–07
X6460–X6463	M44 ENGINE	8000.0–08
X6475	M50 ENGINE	8000.0–07
X6475	M52 ENGINE	8000.0–09
X6491	M50 ENGINE	8000.0–07
X6492	M50 ENGINE	8000.0–07
X6492	M44 ENGINE	8000.0–08
X6492	M52 ENGINE	8000.0–09
X6810–X6823	M52 ENGINE	8000.0–09
X6810–X6866	M42/M43 ENGINE	8000.0–05
X6810–X6866	S50 ENGINE	8000.0–06
X6810	M50 ENGINE	8000.0–07
X6820–X6821	M44 ENGINE	8000.0–08
X6820–X6822	M50 ENGINE	8000.0–07
X6830–X6831	M50 ENGINE	8000.0–07
X6832	M44 ENGINE	8000.0–08
X6832–X6835	M52 ENGINE	8000.0–09
X6833	M44 ENGINE	8000.0–08
X6835	M44 ENGINE	8000.0–08

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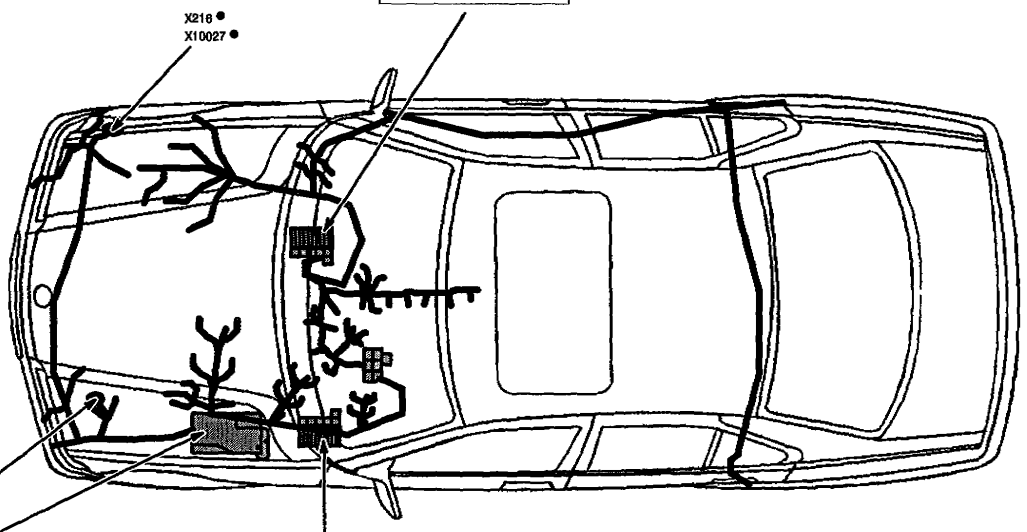
SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER
X6835–X6836	M50 ENGINE	8000.0–07
X6860–X6869	M52 ENGINE	8000.0–09
X6860–X6891	M44 ENGINE	8000.0–08
X6863–X6866	M50 ENGINE	8000.0–07
X6900	M44 ENGINE	8000.0–08
X6900	M52 ENGINE	8000.0–09
X6900–X6906	M50 ENGINE	8000.0–07
X6900–X6906	S50 ENGINE	8000.0–06
X7845–X7846	M44 ENGINE	8000.0–08
X8000–X8015	M52 ENGINE	8000.0–09
X8004	M50 ENGINE	8000.0–07
X8004	S50 ENGINE	8000.0–06
X8004–X8015	M44 ENGINE	8000.0–08
X8004–X8576	M42/M43 ENGINE	8000.0–05
X8007	M50 ENGINE	8000.0–07
X8010	M50 ENGINE	8000.0–07
X8015	M50 ENGINE	8000.0–07
X8022	M50 ENGINE	8000.0–07
X8025	M50 ENGINE	8000.0–07
X8038	M52 ENGINE	8000.0–09
X8042	M50 ENGINE	8000.0–07
X8051	M50 ENGINE	8000.0–07
X8056	M50 ENGINE	8000.0–07
X8056–X8073	M44 ENGINE	8000.0–08
X8065	M50 ENGINE	8000.0–07
X8071–8074	M50 ENGINE	8000.0–07
X8071–8074	M52 ENGINE	8000.0–09
X8084	M50 ENGINE	8000.0–07
X8103	M52 ENGINE	8000.0–09
X8564–X8576	M44 ENGINE	8000.0–08
X8564–X8576	M52 ENGINE	8000.0–09
X8565	M52 ENGINE	8000.0–09
X10007–X10100	FRONT	8000.0–02
X10118	REAR, CONVERTIBLE	8000.0–04
X10169	M44 ENGINE	8000.0–08
X10251–10252	FRONT	8000.0–02
X10120–X10192	FRONT	8000.0–02
X10189–X10229	REAR, CONVERTIBLE	8000.0–04
X13002–X13011	REAR	8000.0–03
X13002–X13011	REAR, CONVERTIBLE	8000.0–04
X13021–X13115	FRONT	8000.0–02
X13007–X13273	REAR, CONVERTIBLE	8000.0–04
X18160–X18161	IHKR	NOT SHOWN
X18165	FRONT	8000.0–02
X18251	DRIVER'S DOOR	NOT SHOWN
X18252	PASSENGER'S DOOR	NOT SHOWN
X18253	DRIVER'S DOOR	NOT SHOWN
X18254–X18284	PASSENGER'S DOOR	NOT SHOWN
X18783–X18784	FRONT	8000.0–02
X18785–X18799	REAR, CONVERTIBLE	8000.0–04
X19513–X19514	RADIO	NOT SHOWN
X69008–X69009	S50 ENGINE	8000.0–06

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SPLICE LOCATION VIEWS

FRONT HARNESS



SPLICE PANEL	
X185	X1149
X218	X10009
X222	X10064
X557	X13115

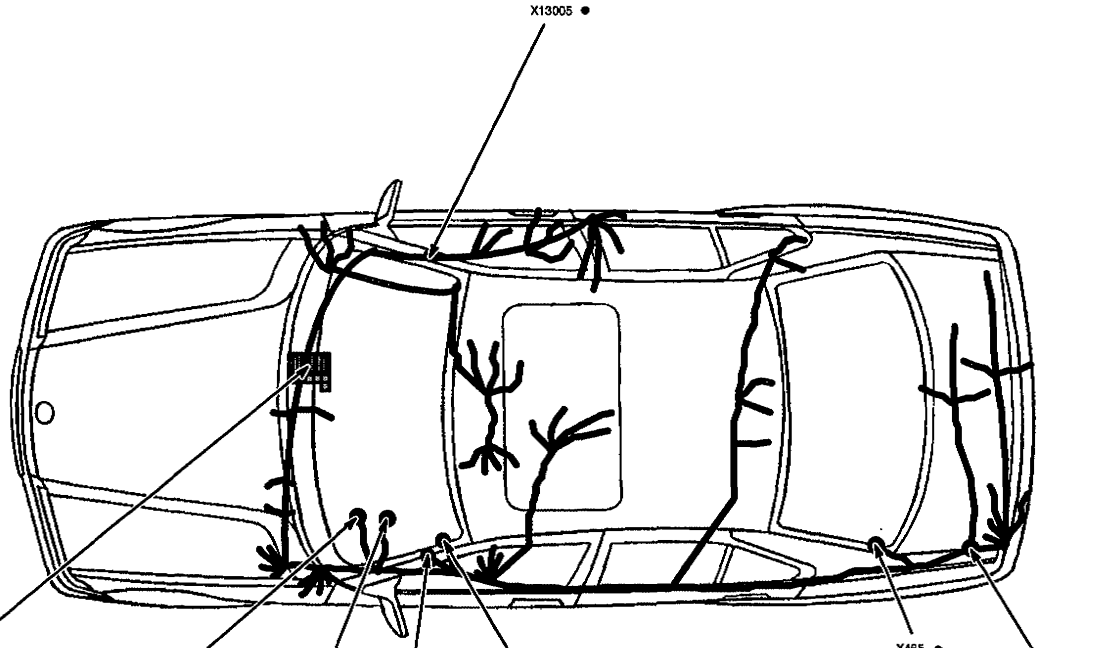
SPLICE PANEL					
X184	X245	X1027	X1077	X1177	X10022
X185	X246	X1028	X1152	X1186	X10055
X186	X276	X1036	X1159	X1192	X10100
X187	X530	X1055	X1163	X1233	X18783
X203	X595	X1068	X1164	X10007	X18784
X223	X1015	X1073	X1168	X10020	
X236	X1022	X1076	X1172	X10021	

SPLICE PANEL						
X181	X213	X1067	X1179	X10028	X10120	X11284
X182	X228	X1069	X1182	X10029	X10123	X13021
X183	X1019	X1079	X1225	X10060	X10191	X18165
X188	X1029	X1080	X1258	X10061	X10192	
X191	X1047	X1085	X10008	X10090	X10231	
X196	X1065	X1159	X10011	X10103	X10251	
X197	X1066	X1169	X10024	X10104	X10252	

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SPLICE LOCATION VIEWS

REAR HARNESS

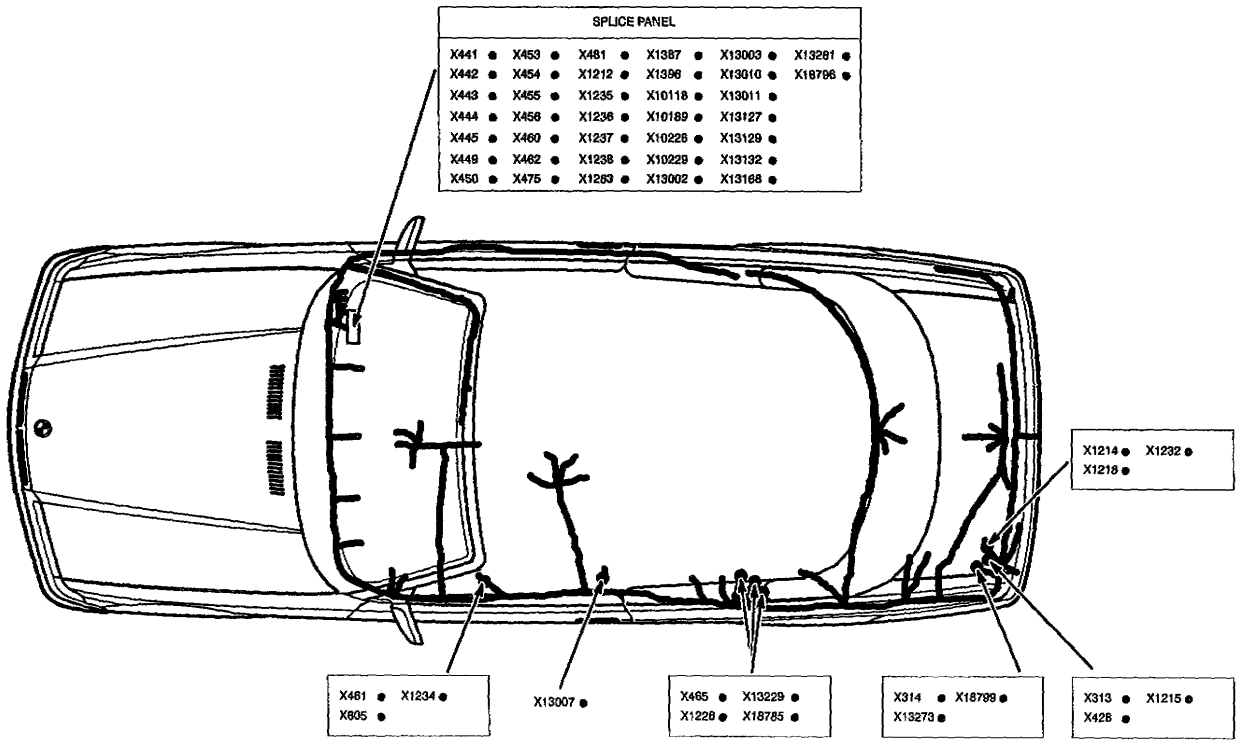


SPLICE PANEL		
X441	X462	X1396
X442	X475	X13002
X443	X481	X13003
X444	X1212	X13010
X445	X1235	X13011
X449	X1299	
X450	X1387	

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SPLICE LOCATION VIEWS

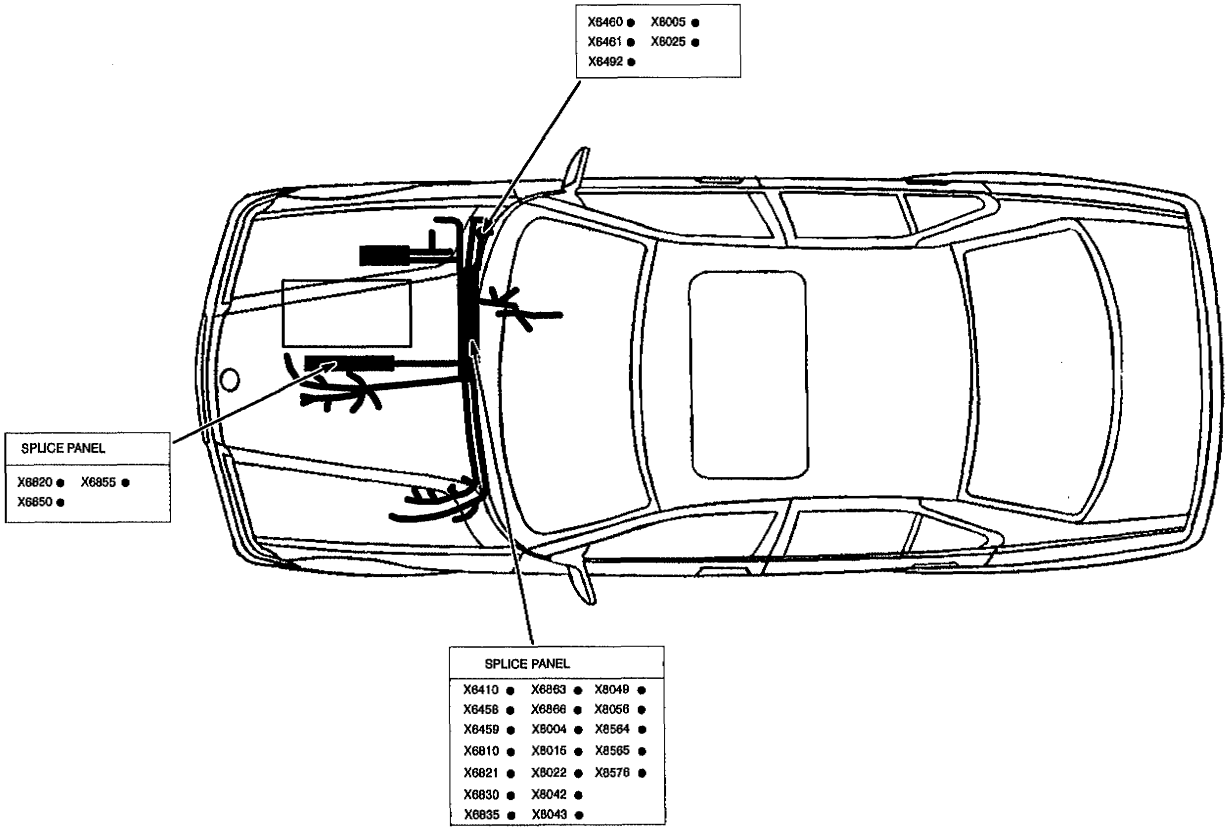
REAR WIRING HARNESS – CONVERTIBLE



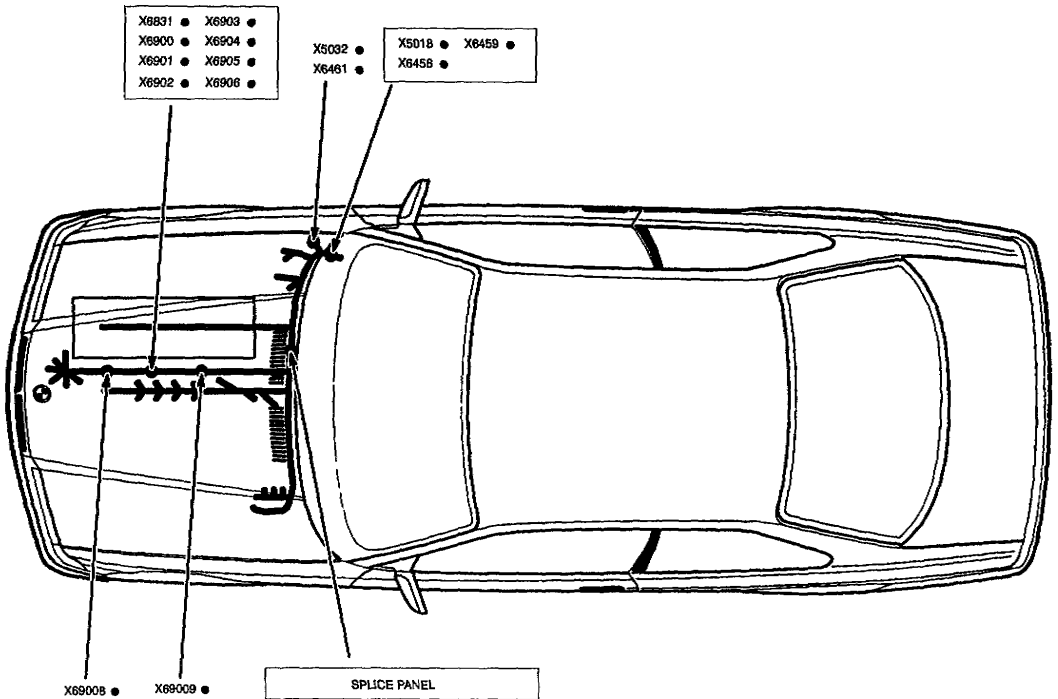
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SPLICE LOCATION VIEWS

ENGINE HARNESS M42/M43



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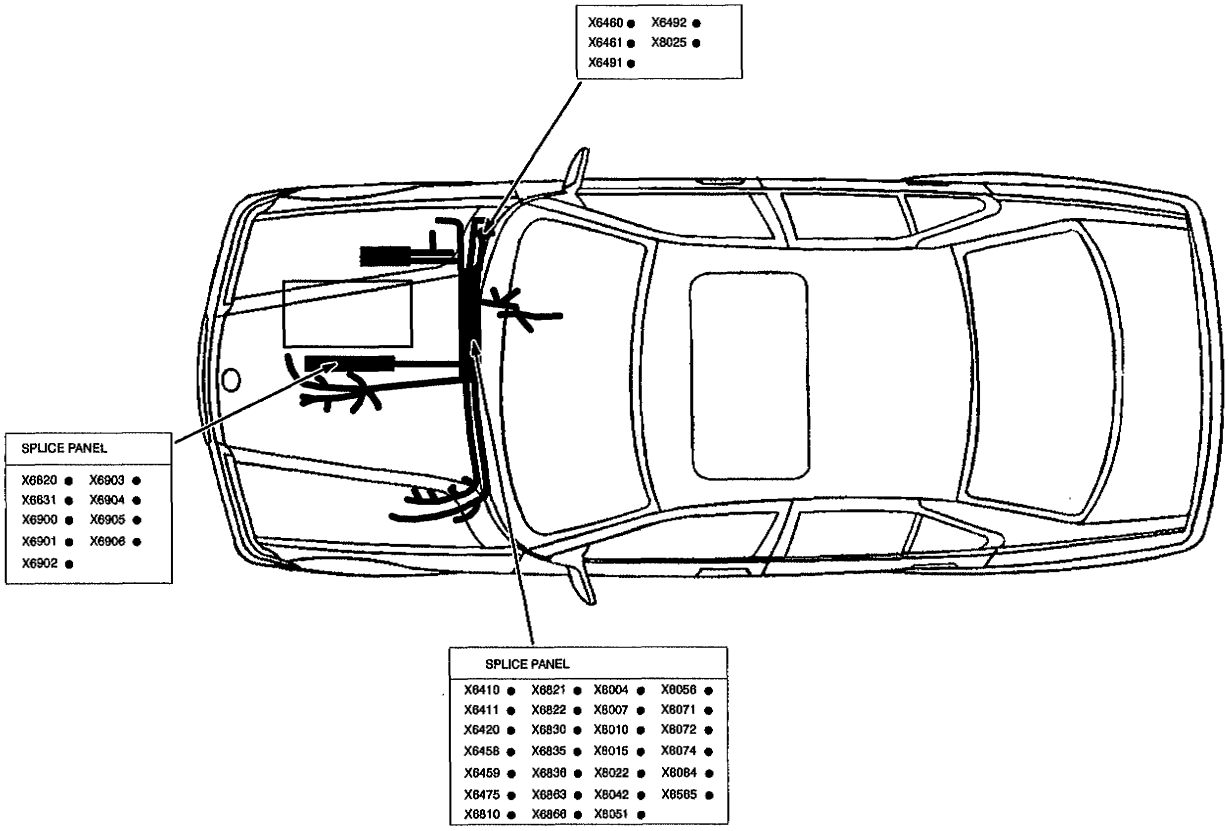


SPLICE PANEL			
X5035	X6482	X6490	X6822
X6410	X6484	X6491	X6835
X6411	X6485	X6492	X6863
X6413	X6486	X6810	X6868
X6463	X6487	X6811	X8004
X6475	X6488	X6820	
X6480	X6489	X6821	

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SPLICE LOCATION VIEWS

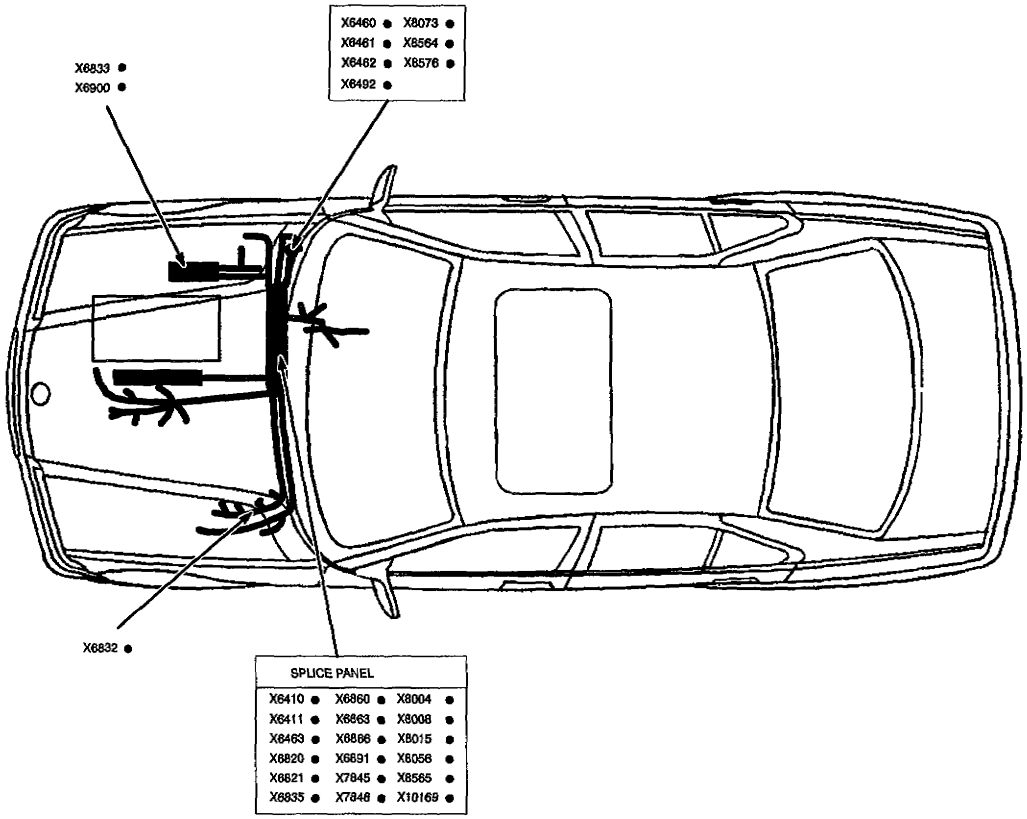
M50 ENGINE HARNESS



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SPLICE LOCATION VIEWS

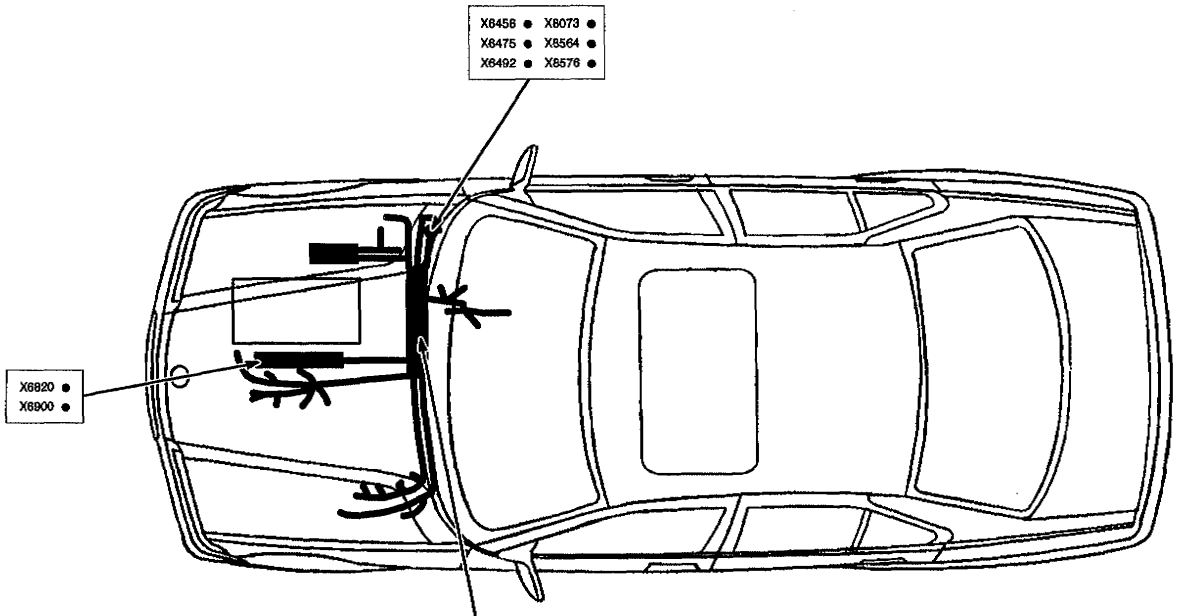
ENGINE HARNESS M44



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SPLICE LOCATION VIEWS

ENGINE HARNESS M52



SPLICE PANEL			
X6411	X6623	X6868	X8038
X6412	X6632	X6869	X8071
X6420	X6635	X8000	X8072
X6459	X6660	X8004	X8074
X6810	X6863	X8007	X8103
X6821	X6866	X8010	X8565
X6822	X6867	X8016	

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FIG. 1

B550001.03

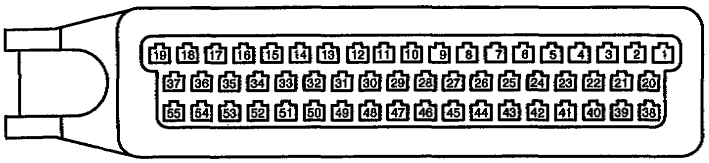


FIG. 2

B260005.00

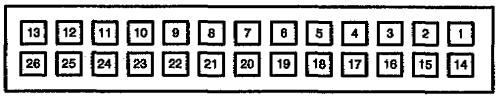


FIG. 3

B150003.00

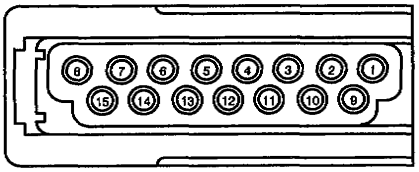
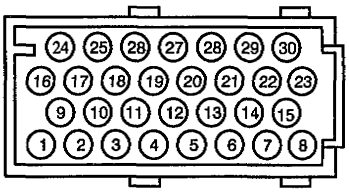


FIG. 4

B300001.00



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CONNECTOR VIEWS

FIG. 1

B030024

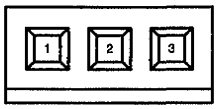


FIG. 2

B120003.00

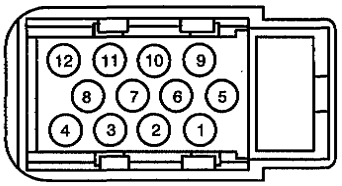


FIG. 3

B120001.00

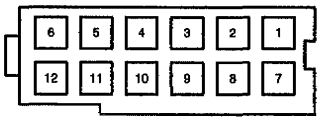


FIG. 4

B080002.00

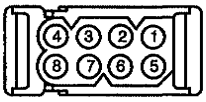


FIG. 5

B180000.00

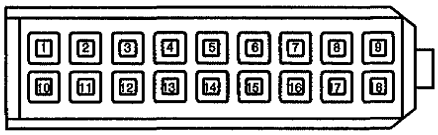


FIG. 6

B120015



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CONNECTOR VIEWS

FIG. 1

B030001.00

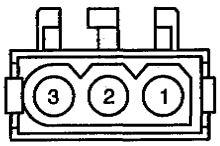


FIG. 2

B070007.00

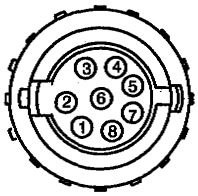


FIG. 3

B170001.00

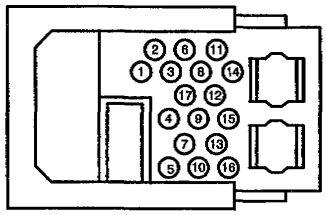


FIG. 4

B100008.00

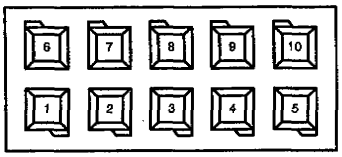


FIG. 5

B030005.00

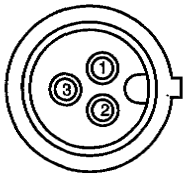
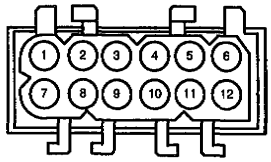


FIG. 6

B120004.01



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CONNECTOR VIEWS

FIG. 1

B040002.00

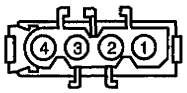


FIG. 2

B050003.00

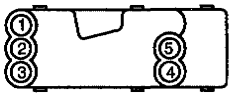


FIG. 3

B040004.00



FIG. 4

B040016

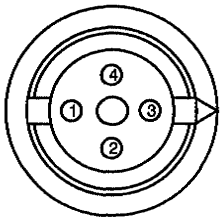


FIG. 5

B080001.00

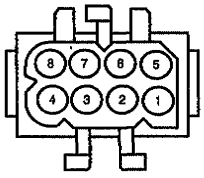
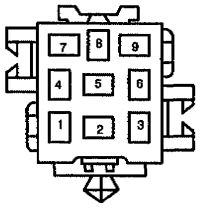


FIG. 6

B090002.00



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CONNECTOR VIEWS

FIG. 1

B210002.00

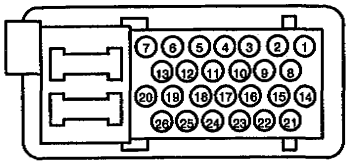


FIG. 2

B060001.02



FIG. 3

B070005.00

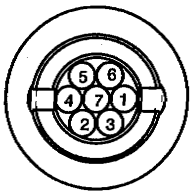


FIG. 4

B200003.00

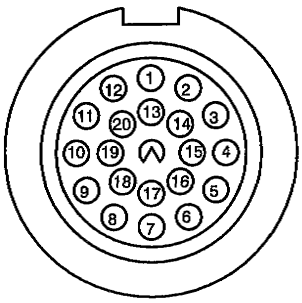


FIG. 5

B060010.01

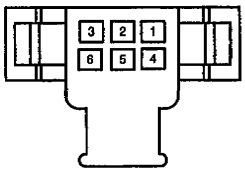


FIG. 6

B030003.02



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CONNECTOR VIEWS

FIG. 1

B060008.00

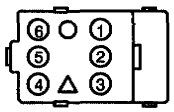


FIG. 2

B250001.01

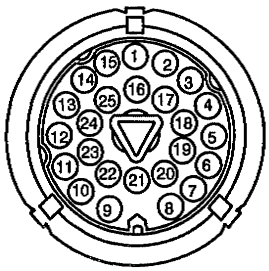


FIG. 3

B060019.02

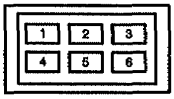


FIG. 4

B060037.00

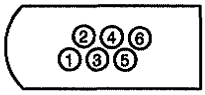
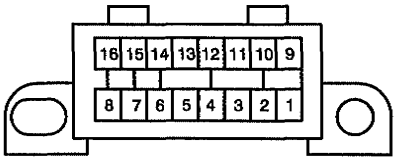


FIG. 5

B160003.00



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FIG. 1

B880001.00

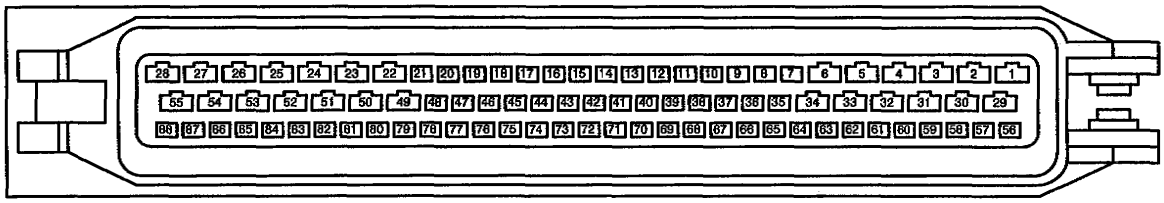


FIG. 2

B060038.00

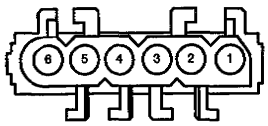


FIG. 3

B030006.00

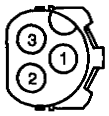
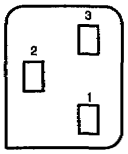


FIG. 4

B030004.01



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CONNECTOR VIEWS

FIG. 1

B060012.00

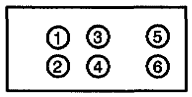


FIG. 2

B040023.01

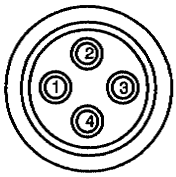


FIG. 3

B030018.00

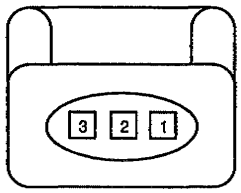


FIG. 4

B030015.08

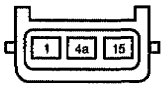


FIG. 5

B030023.00

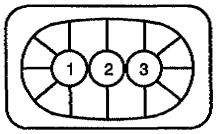
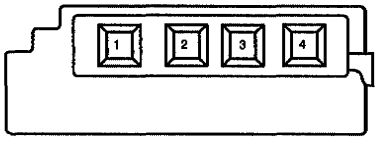


FIG. 6

B040020.00



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CONNECTOR VIEWS

FIG. 1

B030025.00

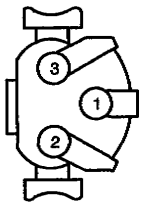


FIG. 2

B060037.01

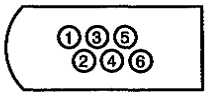


FIG. 3

B030001.00

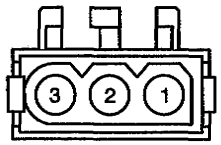


FIG. 4

B060001.00



FIG. 5

B120004.05

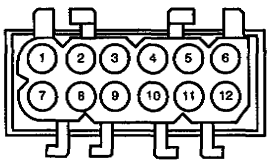
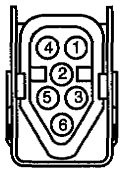


FIG. 6

B060009.00



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CONNECTOR VIEWS

FIG. 1

B100004.01

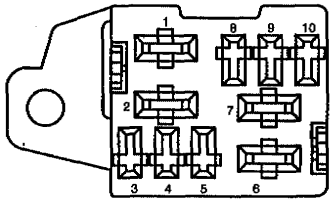


FIG. 2

B180002.00

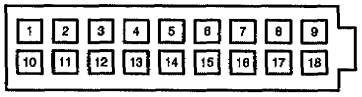


FIG. 3

B060042

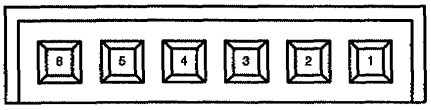
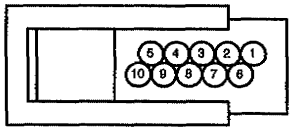


FIG. 4

B100007.00



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FIG. 1

B040021

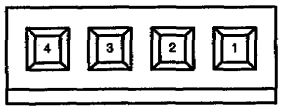


FIG. 2

B260002.04

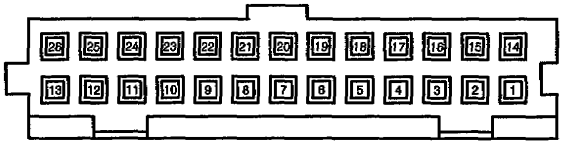


FIG. 3

B040003.00

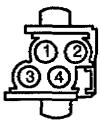


FIG. 4

B130002.00

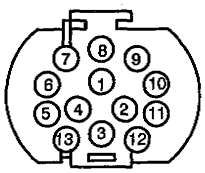
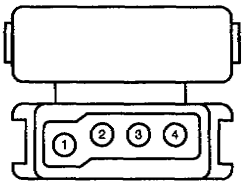


FIG. 5

B040013



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CONNECTOR VIEWS

FIG. 1

B040022.00

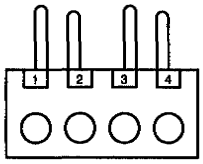


FIG. 2

B030009.00

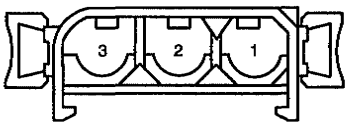


FIG. 3

B120002.02

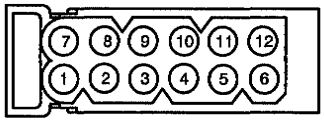


FIG. 4

B160001.00

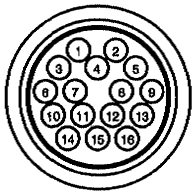


FIG. 5

B100011.01

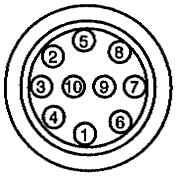
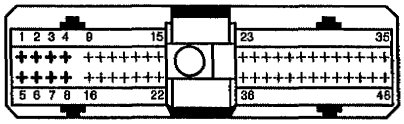


FIG. 6

B480000.00



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FIG. 1

B050005.00

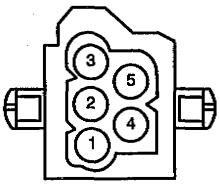


FIG. 2

B300003.00

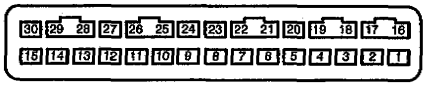


FIG. 3

B040027.00

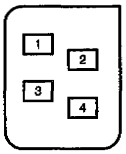
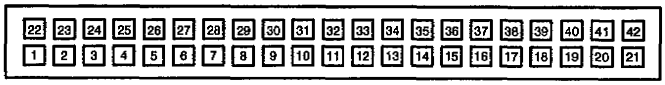


FIG. 4

B420000.00



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FIG. 1

B030042.01

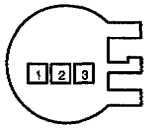


FIG. 2

B030018.01

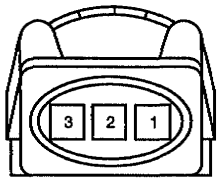


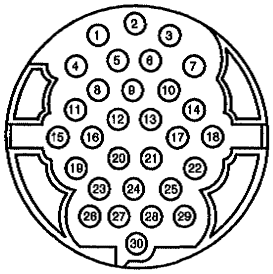
FIG. 3

B090006.00



FIG. 4

B300005.00



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