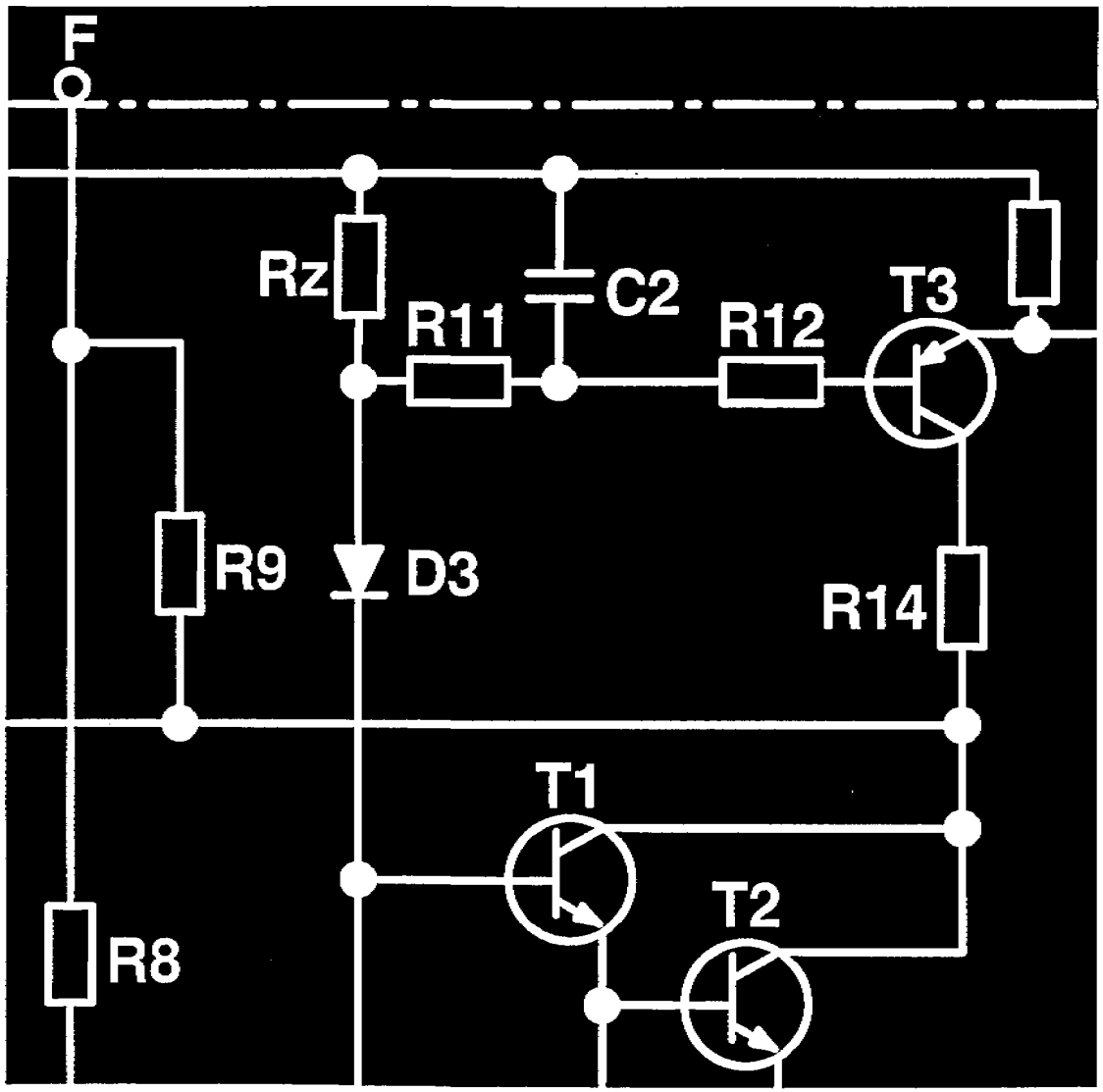


1992
BMW 525i, 525it, 535i, M5 (E34)
Electrical
Troubleshooting
Manual
Vehicles Produced 7/91 to 9/92

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STEERING COLUMN POSITION SWITCH, S119z 3231.0-00
SUNROOF MOTOR, M24 ..... 5410.0-03
SUNROOF POSITION SWITCH, S39 ..... 5410.0-02
SUNROOF SWITCH, S38 ..... 5410.0-02
SUNROOF SWITCH, S38 ..... 5410.2-01
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG) 3234.0-00
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE, A12 3234.0-00
SUPPRESSION FILTER, C900 ..... 6424.0-01
SYMBOLS 0140.0-00
TAIL LIGHT, LEFT, H25 ..... 6314.0-01
TAIL LIGHT, RIGHT, H30 ..... 6314.0-01
TELEPHONE HANDSET, U4 ..... 6561.0-01
TELEPHONE INTERFACE US, A192 ..... 6561.0-01
TELEPHONE TRANSCEIVER, H38 ..... 6561.0-00
TEMPERATURE SWITCH, B6235 ..... 1290.0-00
TEMPERATURE SWITCH, S36 ..... 6454.0-00
THIGH SUPPORT MOTOR, DRIVER'S, M65 ..... 5200.0-04
THIGH SUPPORT MOTOR, PASSENGER'S, M66 ..... 5200.0-04
THIGH SUPPORT POTENTIOMETER, R15 ..... 5200.0-06
THIGH SUPPORT SWITCH, DRIVER'S, S93 ..... 5200.0-04
THIGH SUPPORT SWITCH, PASSENGER'S, S94 ..... 5200.0-04
THROTTLE POSITION SENSOR, R6252 ..... 1210.7-05
THROTTLE POSITION SENSOR, S6250 ..... 1210.2-01
THROTTLE POSITION SENSOR, S6251 ..... 1210.4-07
THROTTLE POSITION SENSOR, S6251 ..... 2460.0-02
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.0-00
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.2-00
TRANSMISSION POSITION INDICATOR LIGHT, E82 ..... 6300.0-03
TRANSMISSION RANGE SELECTOR LIGHT, E9500 ..... 6300.0-03
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.0-04
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.2-01
TRUNK COMPARTMENT LIGHT, E32 ..... 6320.0-01
TRUNK LID LIGHT, E33 ..... 6320.0-02
TRUNK LID SWITCH, S61 ..... 6320.0-01
TRUNK LIGHT, LEFT, H90 ..... 6320.0-01
TRUNK LIGHT, RIGHT, H91 ..... 6320.0-01
TRUNK LOCK MOTOR, M17 ..... 5126.0-04
TURN/HAZARD LIGHTS 6313.0-00
TURN LIGHT, LEFT FRONT, H7 ..... 6313.0-02
TURN LIGHT, LEFT REAR, H6 ..... 6313.0-02
TURN LIGHT, RIGHT FRONT, H4 ..... 6313.0-02
TURN LIGHT, RIGHT REAR, H5 ..... 6313.0-02
UNCOUPLING DIODE (KL61), V9501 ..... 1230.0-00
UNLOADER RELAY, TERMINAL 15, K9 ..... 0670.2-05
UNLOADER RELAY, TERMINAL 61, K61 ..... 1230.0-00
UNLOADER RELAY, TERMINAL R, K3 ..... 0670.2-05
VEHICLE SPEED SENSOR, B10 ..... 6200.0-06
VOLUME AIR FLOW SENSOR, B6233 ..... 1210.1-09
VOLUME AIR FLOW SENSOR, B6233 ..... 1210.2-09
WASHER FLUID LEVEL SWITCH, S64 ..... 6200.0-12
WASHER JET HEATER, LEFT, E51 ..... 6169.0-00
WASHER JET HEATER, RIGHT, E52 ..... 6169.0-00
WASHER PUMP, M4 ..... 6160.0-02
WASHER PUMP RELAY, K5 ..... 6160.0-02
WATER VALVE ASSEMBLY, Y4 ..... 6450.5-01
WHEEL CAMBER CONTROL MODULE, B22 ..... 6200.0-14
WIDE OPEN THROTTLE CUT-OFF RELAY, K86 ..... 6450.5-08
WINDOW LIMIT SWITCH, DRIVER'S, S43 ..... 5133.0-01
WINDOW LIMIT SWITCH, LEFT REAR, S45 ..... 5133.0-03
WINDOW LIMIT SWITCH, PASSENGER'S, S44 ..... 5133.0-01
WINDOW LIMIT SWITCH, RIGHT REAR, S46 ..... 5133.0-03
WINDOW MOTOR, DRIVER'S, M21 ..... 5133.0-04
WINDOW MOTOR, LEFT REAR, M20 ..... 5133.0-04
WINDOW MOTOR, PASSENGER'S, M23 ..... 5133.0-05
WINDOW MOTOR, RIGHT REAR, M22 ..... 5133.0-05
WINDOW MOTOR, RELAY, K90 ..... 5126.0-06
WINDOW SWITCH, LEFT REAR, S41 ..... 5133.0-01
WINDOW SWITCH, RIGHT REAR, S42 ..... 5133.0-01
WINDOW SWITCH ASSEMBLY, FRONT CONSOLE, S40 ..... 5133.0-00
WINDSHIELD WASHER JET HEATERS 6169.0-00
WIPER MOTOR, M3 ..... 6160.0-01
WIPER RELAY, K11 ..... 6160.0-00

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WIPER/WASHER FLUID LEVEL SWITCH, REAR, S176 ..... 6200.0-12
WIPER/WASHER INTERVAL CONTROL MODULE, REAR, A36 .. 6162.0-00
WIPER/WASHER SWITCH, S5 ..... 6160.0-00
ZKE CENTRAL LOCKING (ZV) 5126.0-00
ZKE DOOR LOCK HEATING (TSH) 5120.0-00
ZKE HEADLIGHT WASHER (SRA) 6167.0-00
ZKE INTERIOR LIGHTS CONTROL (IB) 6330.0-00
ZKE POWER WINDOWS (FH) 5133.0-00
ZKE SUNROOF (SHD) 5410.0-00

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Schematics

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

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

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

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

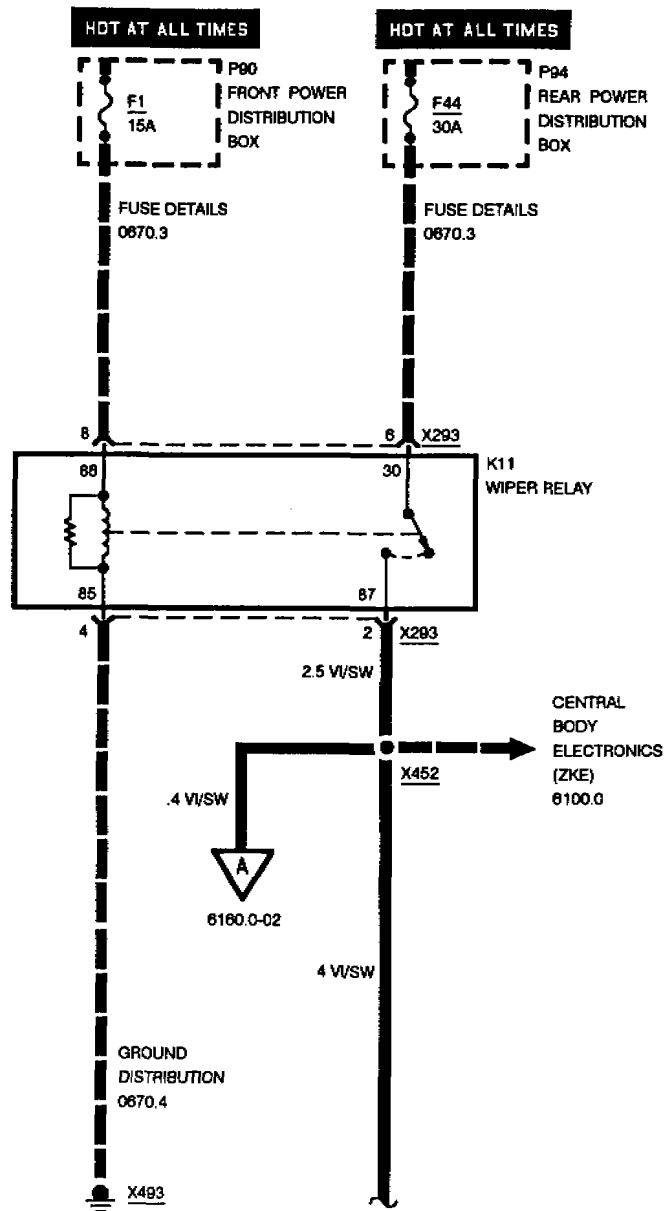
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

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

Included in this ETM are foldout block diagrams. These are overviews of the entire system (EGS, ABS, AC etc.) which helps understand the relationships between various components and control 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 1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell 0670.3 Fuse Details at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.

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

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

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

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SYMBOLS


BATTERY


FUSE DETAILS

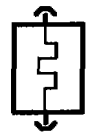

FUSIBLE LINK


CIRCUIT BREAKER


THERMO SWITCH

SOLENOID


SOLENOID CONTROLLED VALVE
OR CLUTCH SOLENOID


HEATING ELEMENT


LOUDSPEAKER OR HORN


LIGHT


PERMANENT MAGNET MOTOR
ONE SPEED


PERMANENT MAGNET MOTOR
TWO SPEEDS


VARIABLE RESISTANCE SENSOR
VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE


VARIABLE RESISTOR
RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE

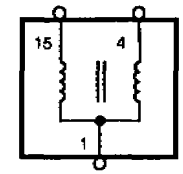


INDUCTIVE SENSOR


DIODE
CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW


ZENER DIODE
TO REGULATE VOLTAGE

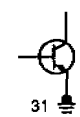

LIGHT EMITTING DIODE



IGNITION COIL


CONTROL/POWER ELECTRONICS


RADIO



TRANSISTORIZED SWITCH

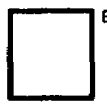

OXYGEN SENSOR



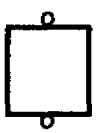
VEHICLE SPEED SENSOR

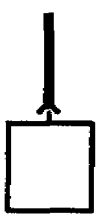
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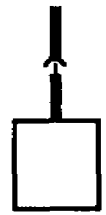
SYMBOLS


ENTIRE COMPONENT SHOWN

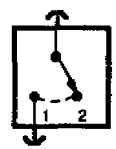

PART OF COMPONENT SHOWN


COMPONENT WITH SCREW TERMINALS

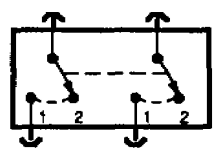

CONNECTOR ATTACHED TO COMPONENT


CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)


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



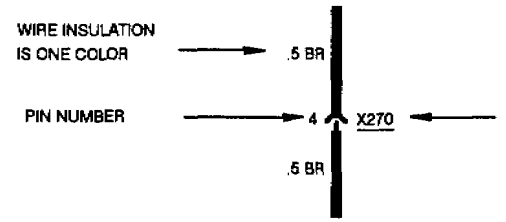
ONE POLE, TWO POSITION SWITCH

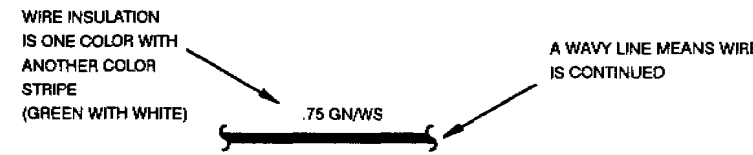


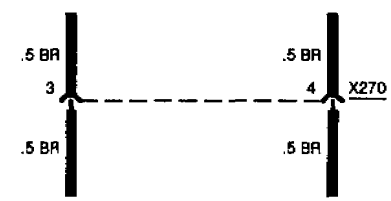
SWITCHES THAT MOVE TOGETHER

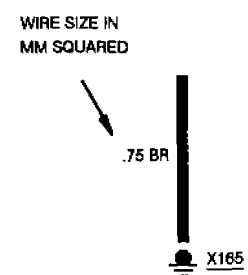
DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

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



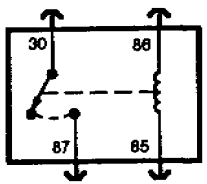




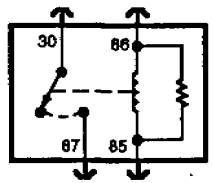


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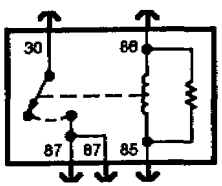
SYMBOLS



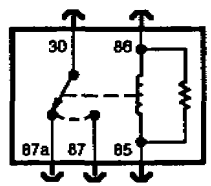
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

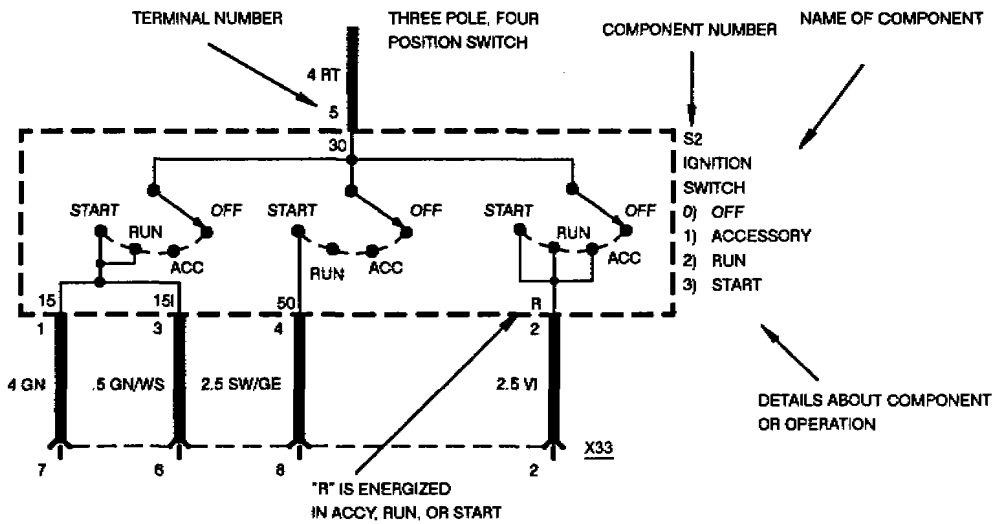


CONTACT RELAY WITH TWO OUTPUTS



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

HOT AT ALL TIMES

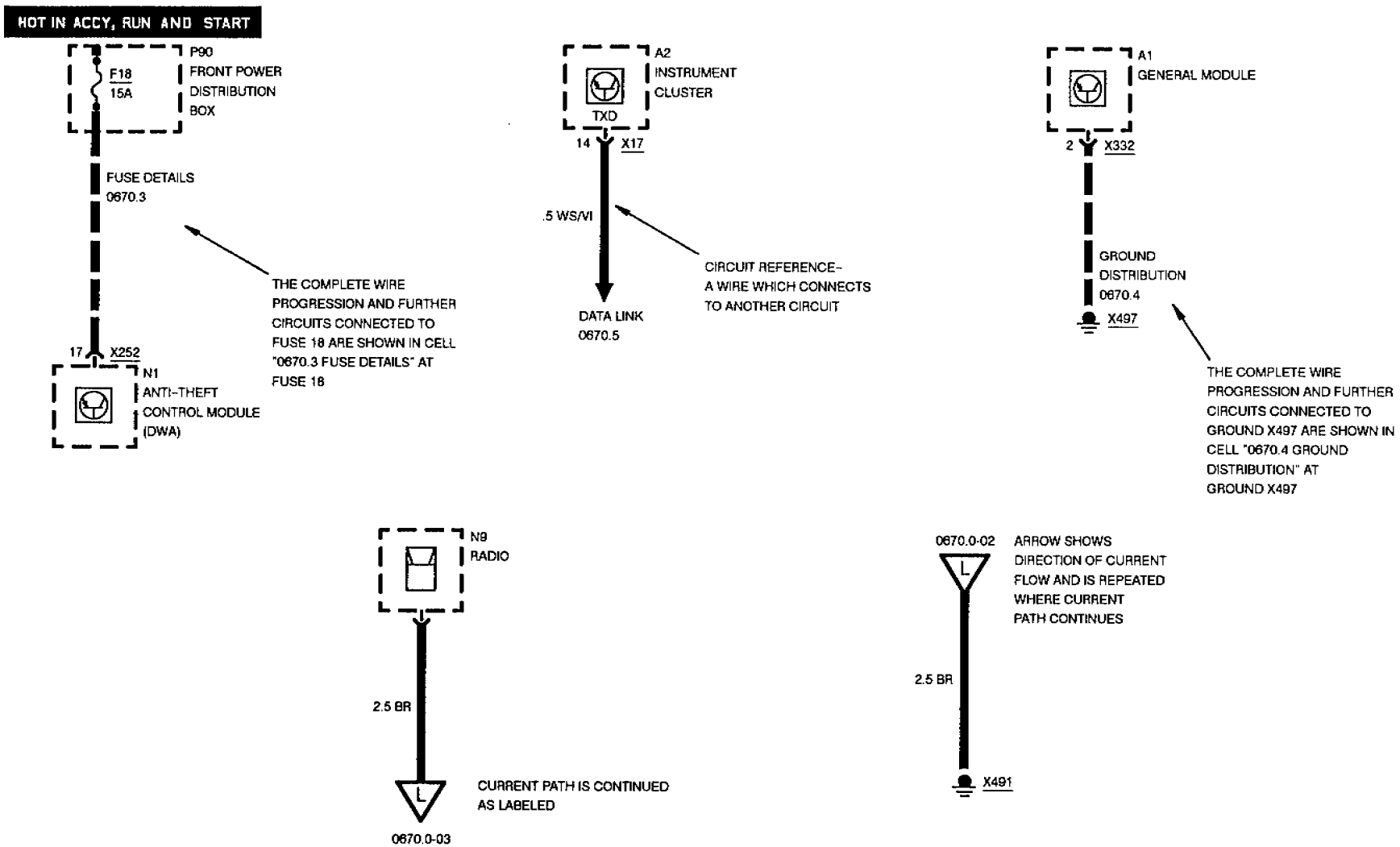


INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

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

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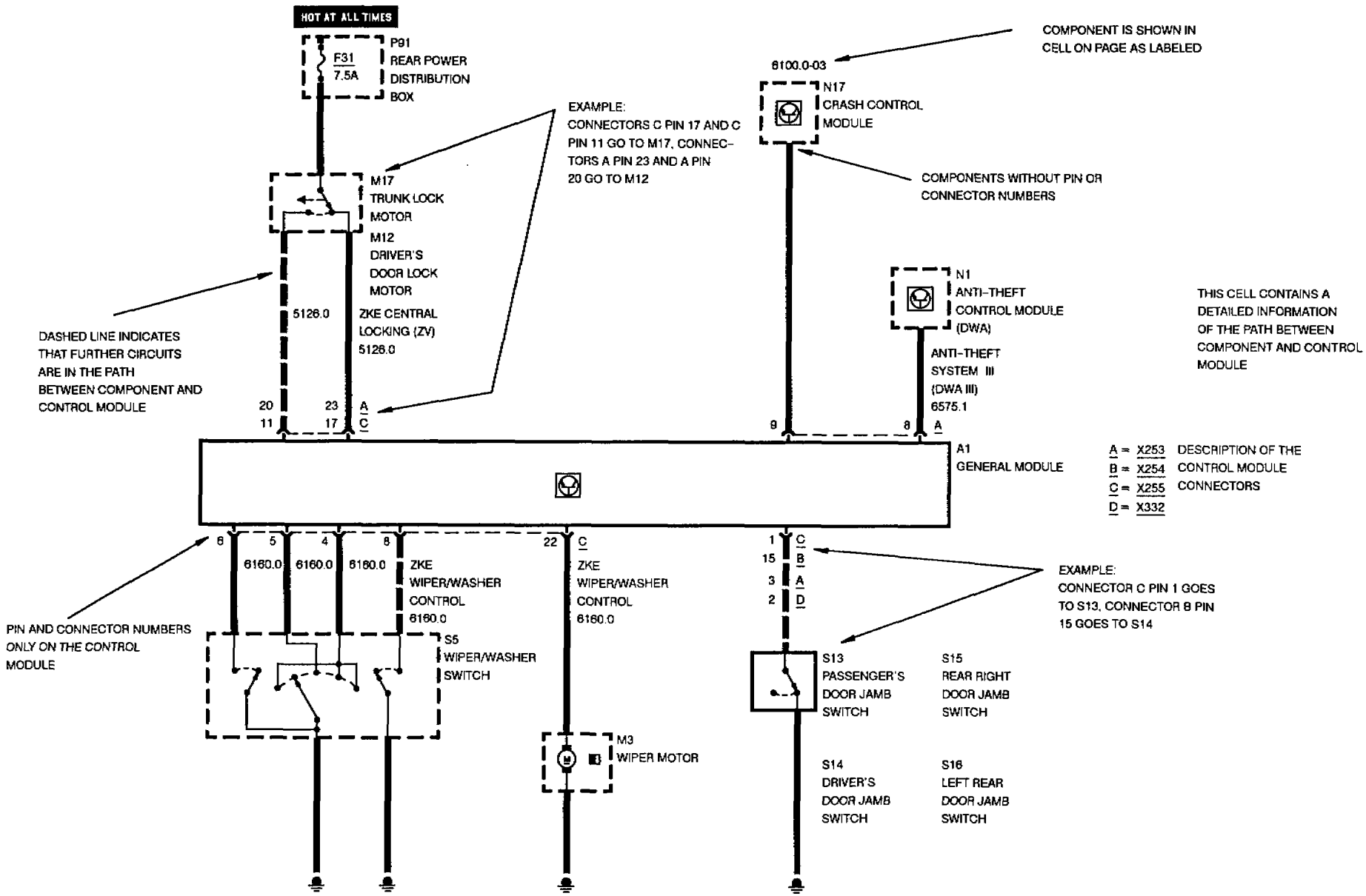
SYMBOLS



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SYMBOLS

BLOCK DIAGRAM



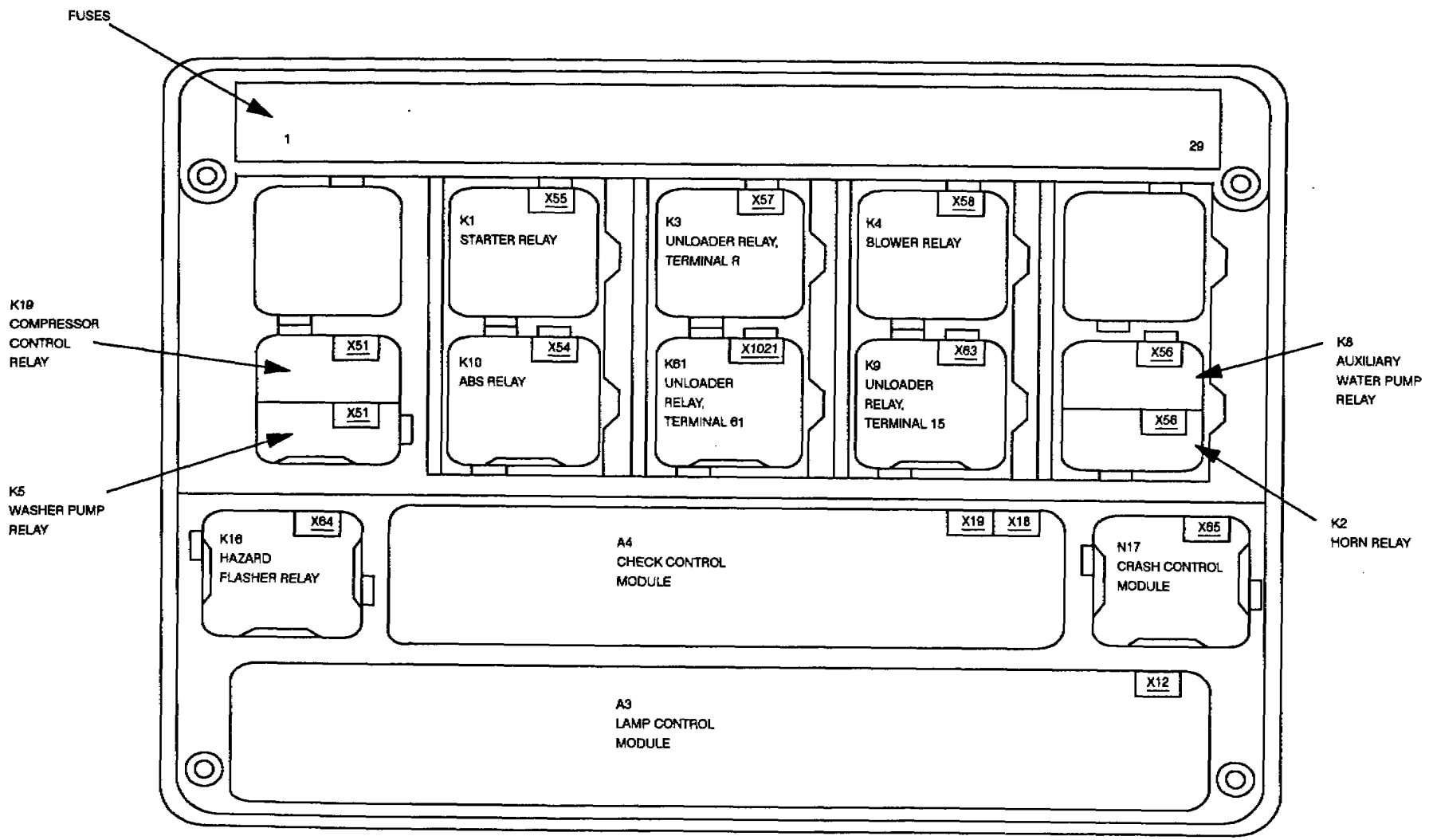
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POWER DISTRIBUTION CHART

FRONT POWER DISTRIBUTION BOX

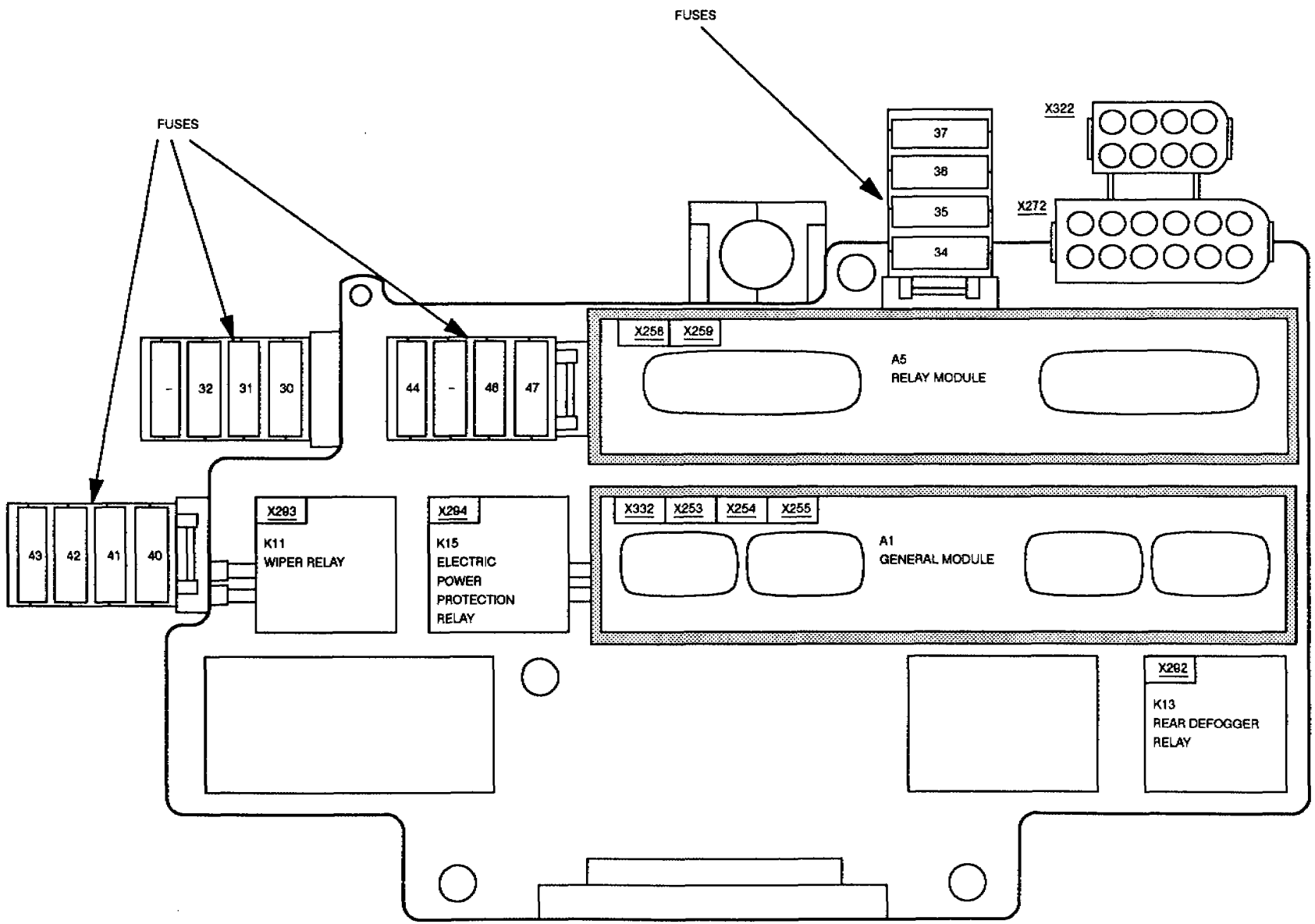
ZKE



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POWER DISTRIBUTION CHART

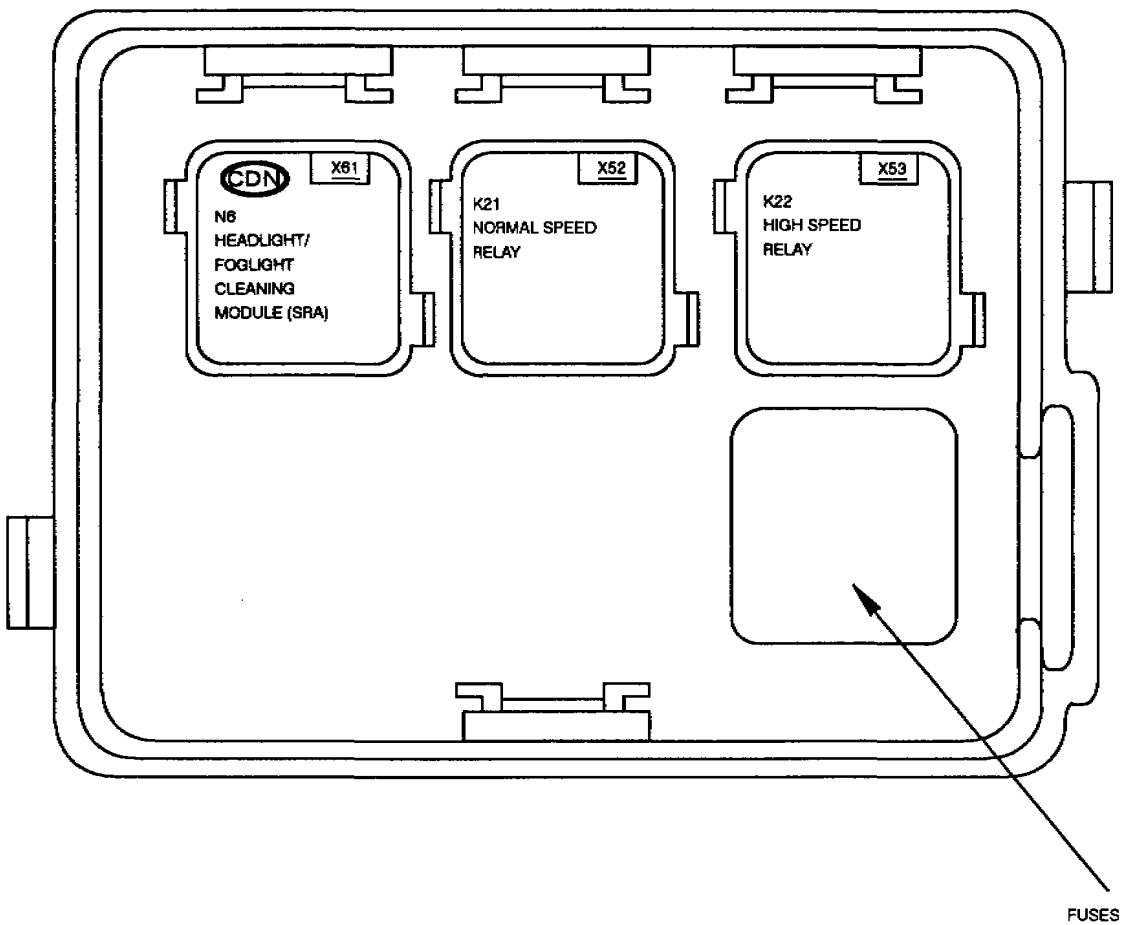
REAR POWER DISTRIBUTION BOX WITH ZKE



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POWER DISTRIBUTION CHART

AUXILIARY RELAY BOX



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FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		15A	7.5A	7.5A	7.5A	10A	15A	15A		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A
1210.1	ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)																	●						●						
1210.2	ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)																	●						●						
1210.4	ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)																							●						
1210.7	ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)																	●						●						
1230.0	CHARGING SYSTEM																	●											●	
1240.0	START																	●												
1270.0	ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)	●																●			●									
1290.0	E-BOX FAN																	●											●	
2460.0	ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)	●																●												
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)	●																●												
3231.0	ELECTRIC STEERING COLUMN ADJUSTMENT																													
3240.0	POWER ASSIST STEERING (SERVOTRONIC)																												●	
3450.0	SLIP CONTROL (ABS)	●																●												
3450.1	SLIP CONTROL (ABS/ASC)	●																●												●
5116.0	POWER MIRRORS					●							●																	
5120.0	ZKE DOOR LOCK HEATING (TSH)																	●												
5126.0	ZKE CENTRAL LOCKING (ZV)																													
5133.0	ZKE POWER WINDOWS (FH)																	●												
5200.0	POWER SEATS												●																	

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FUSE CHART

FUSES 1 TO 29

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

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FUSE CHART

FUSES 1 TO 29

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

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FUSE CHART

FUSES 30 TO 49

		FUSE NUMBER																		
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
		7.5A	7.5A			20A		30A	20A				30A	30A	30A	30A		30A	30A		
1210.1	ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)																			
1210.2	ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)																			
1210.4	ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)																			
1210.7	ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)																			
1230.0	CHARGING SYSTEM																			
1240.0	START																			
1270.0	ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)																			
1290.0	E-BOX FAN																			
2460.0	ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)																			
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																			
3231.0	ELECTRIC STEERING COLUMN ADJUSTMENT					●														
3240.0	POWER ASSIST STEERING (SERVOTRONIC)																			
3450.0	SLIP CONTROL (ABS)																			
3450.1	SLIP CONTROL (ABS/ASC)																			
5116.0	POWER MIRRORS																			
5120.0	ZKE DOOR LOCK HEATING (TSH)	●																		
5126.0	ZKE CENTRAL LOCKING (ZV)	●	●						●										●	
5133.0	ZKE POWER WINDOWS (FH)	●	●																●	
5200.0	POWER SEATS													●	●					

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FUSE CHART

FUSES 30 TO 49

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

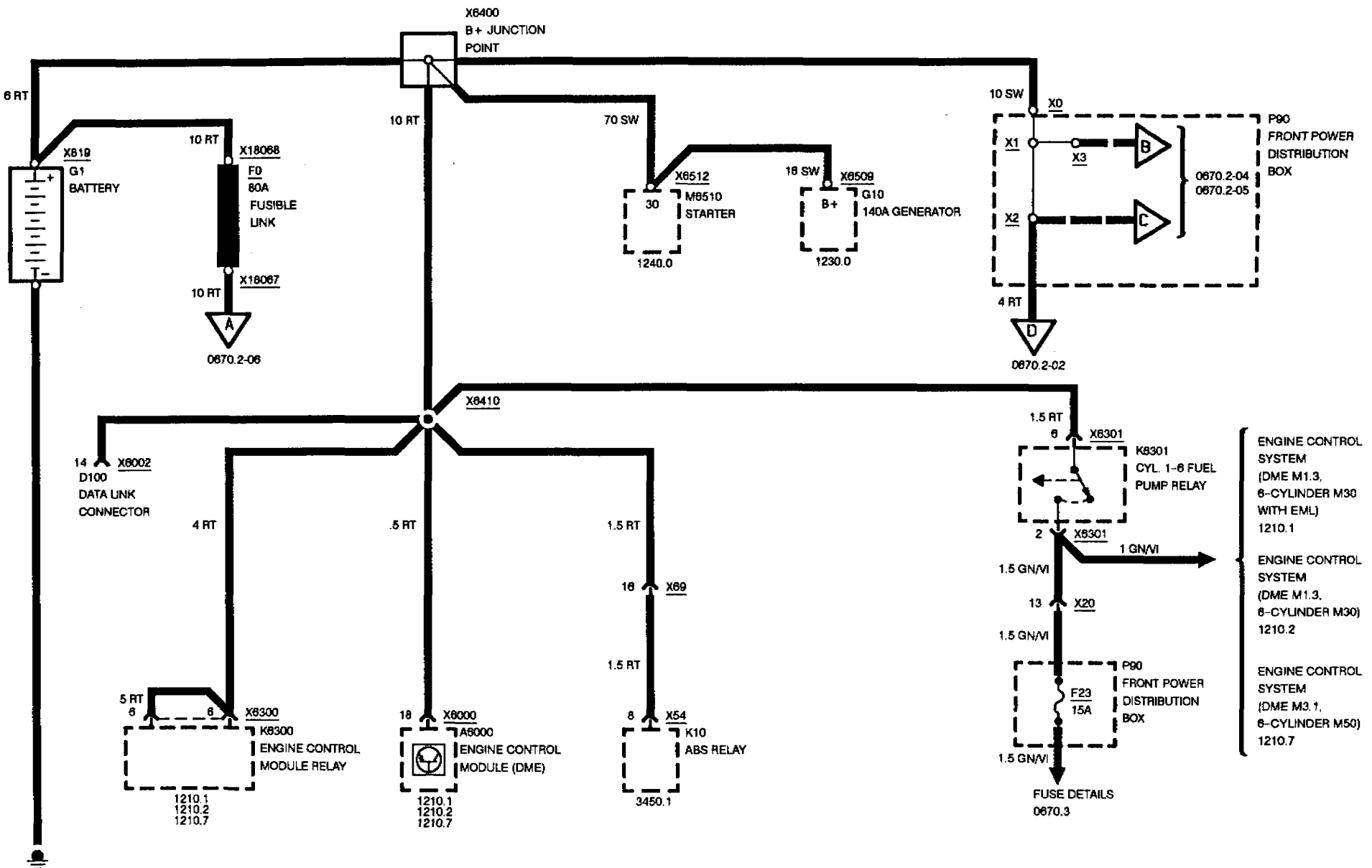
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FUSE CHART

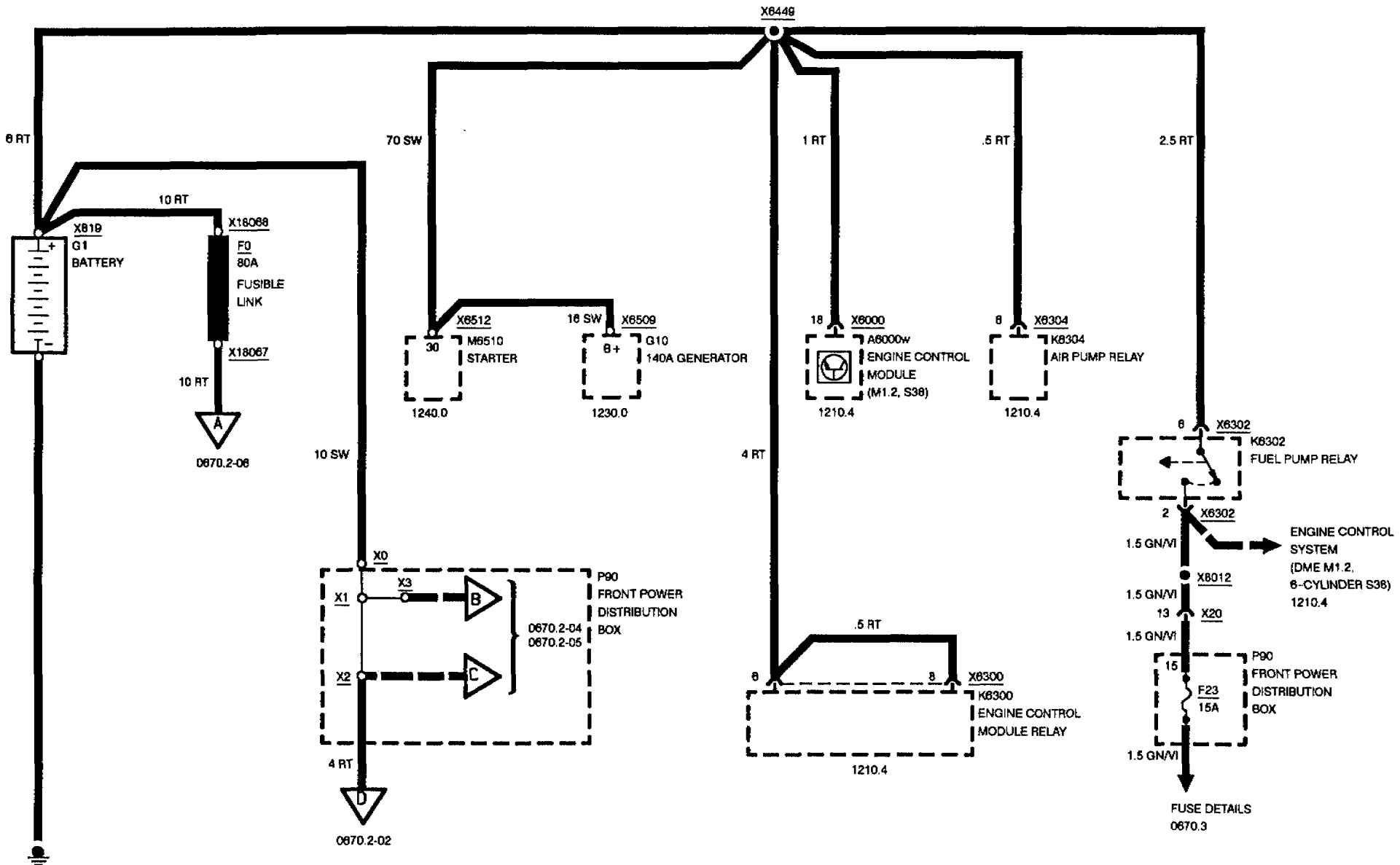
FUSES 30 TO 49

		FUSE NUMBER																	
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		7.5A	7.5A			20A		30A	20A				30A	30A	30A	30A		30A	30A		
6325.0	BRAKE LIGHTS																				
6330.0	ZKE INTERIOR LIGHTS CONTROL (IB)	●														●					
6332.0	INTERIOR ACCESSORIES																				
6350.0	CRASH CONTROL MODULE																				
6412.19	PARK VENTILATION WITH IHKR/F3																				
6424.0	REAR WINDOW DEFOGGER																	●			
6450.5	INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)																				
6454.0	AUXILIARY FAN																				
6510.1	RADIO/HIFI							●													
6510.2	RADIO PROVISIONS							●													
6561.0	CELLULAR TELEPHONE (PROVISIONS)		●																		
6571.0	CRUISE CONTROL (TEMPOMAT)																				
6575.2	ANTI-THEFT SYSTEM (ALPINE)																		●		
6581.0	ON-BOARD COMPUTER (BCIV)																				

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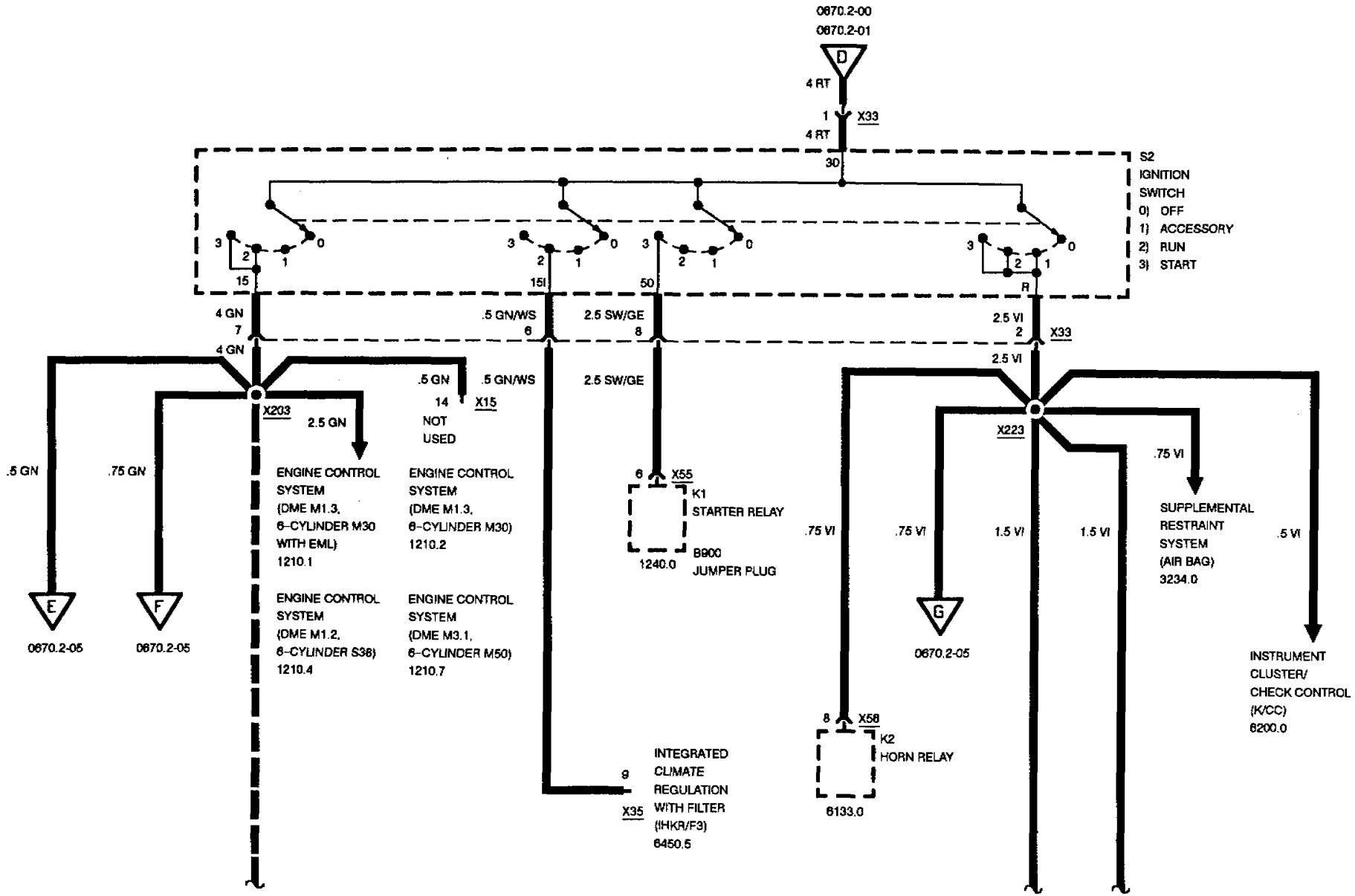
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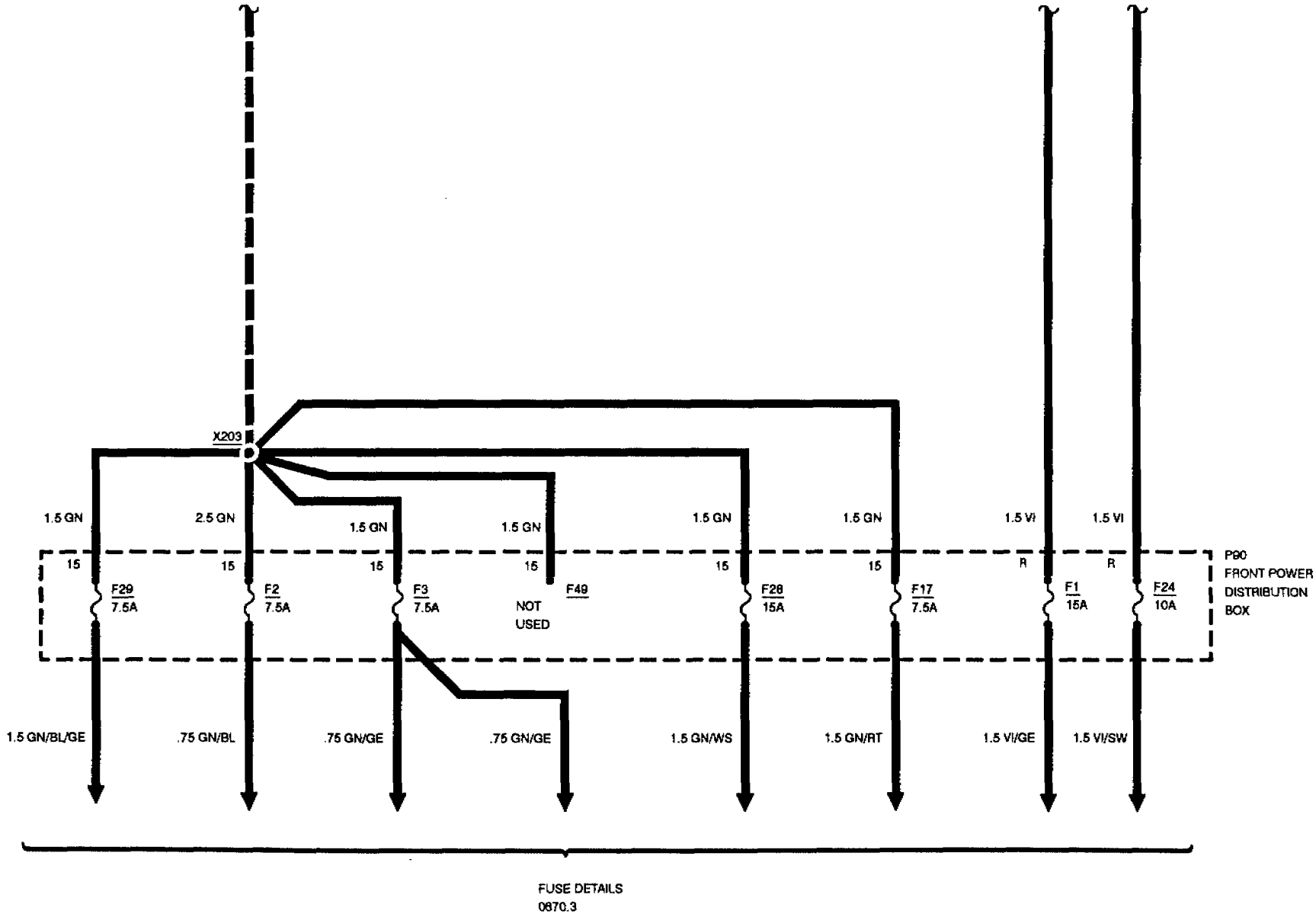
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POWER DISTRIBUTION

FRONT POWER DISTRIBUTION BOX



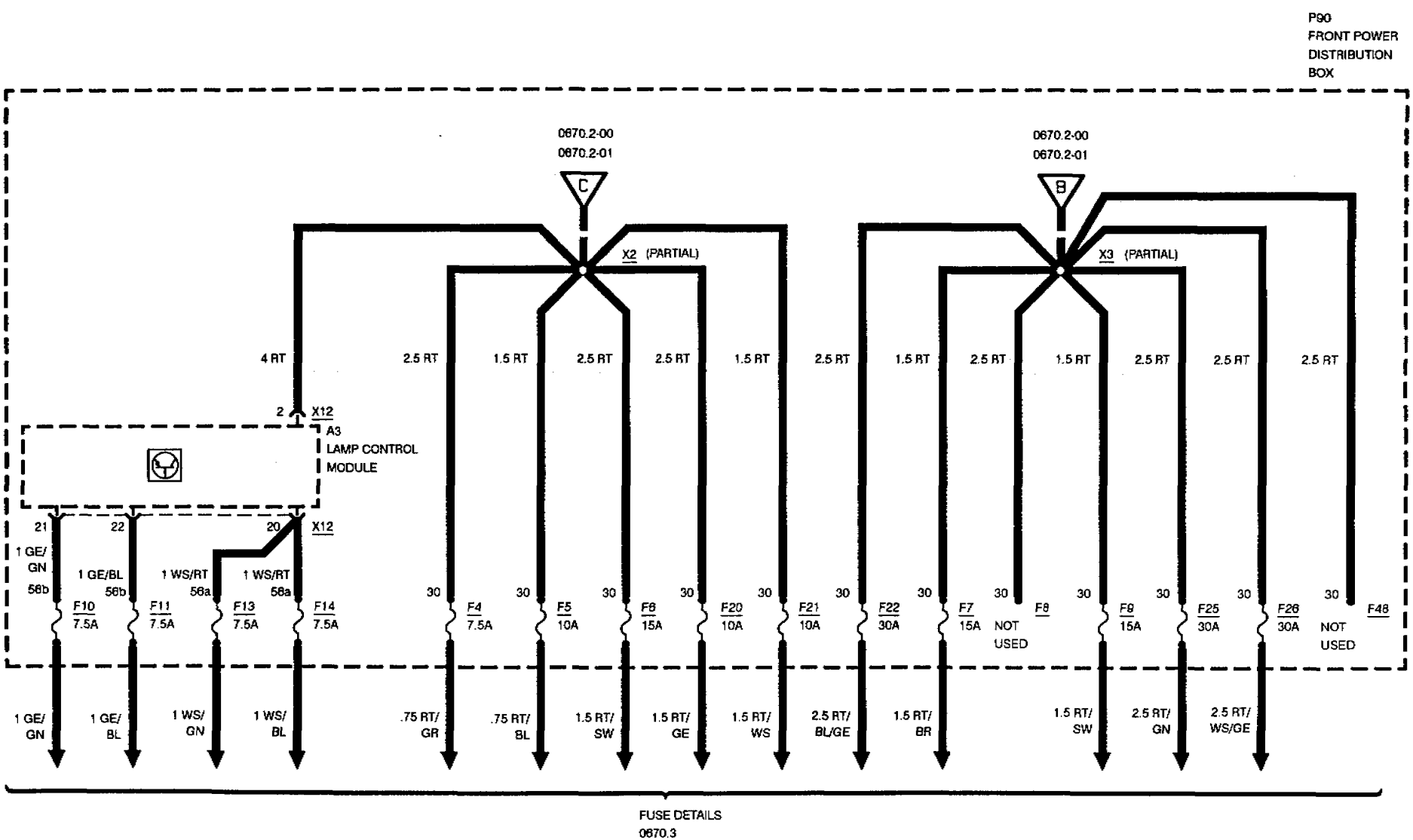
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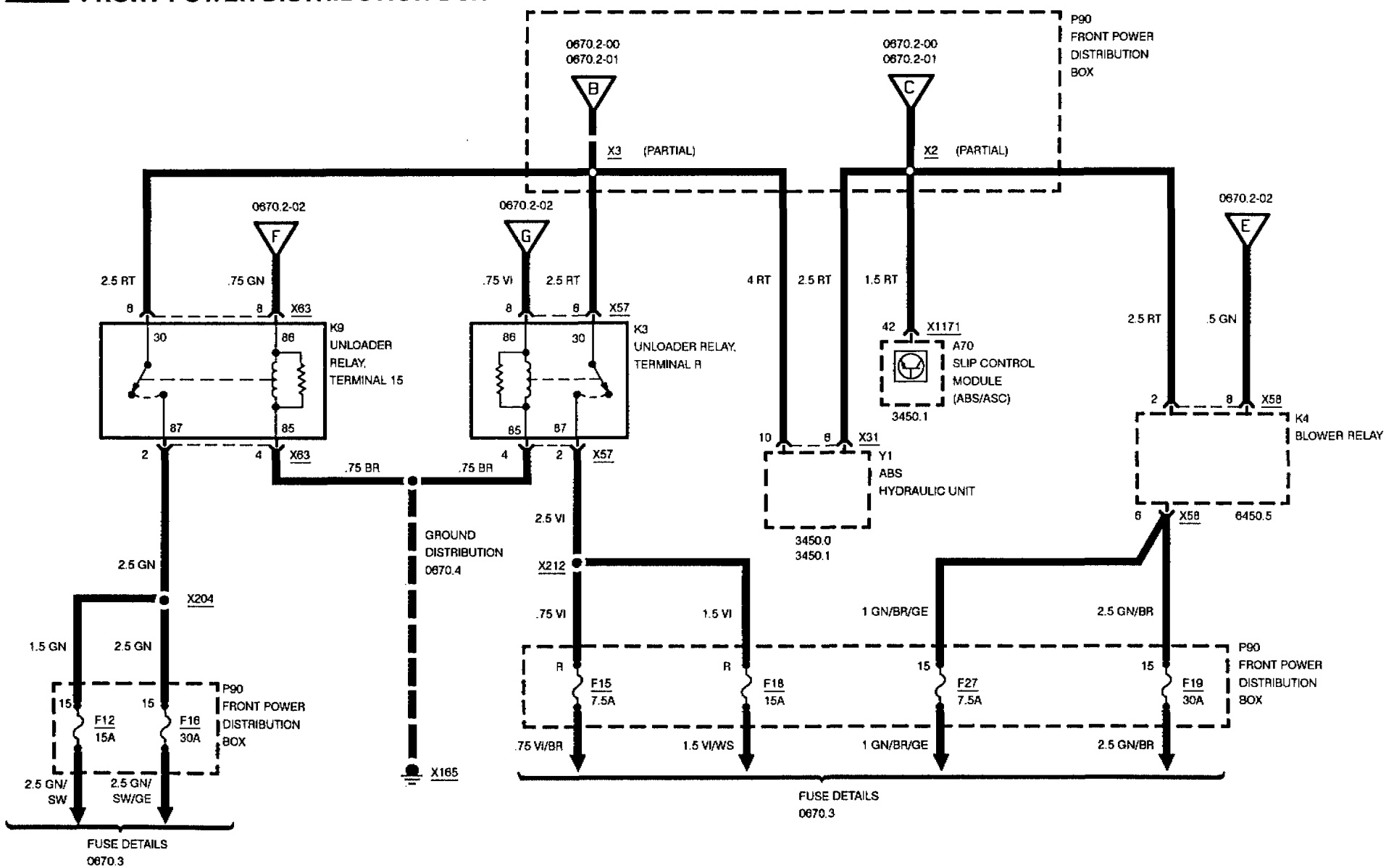
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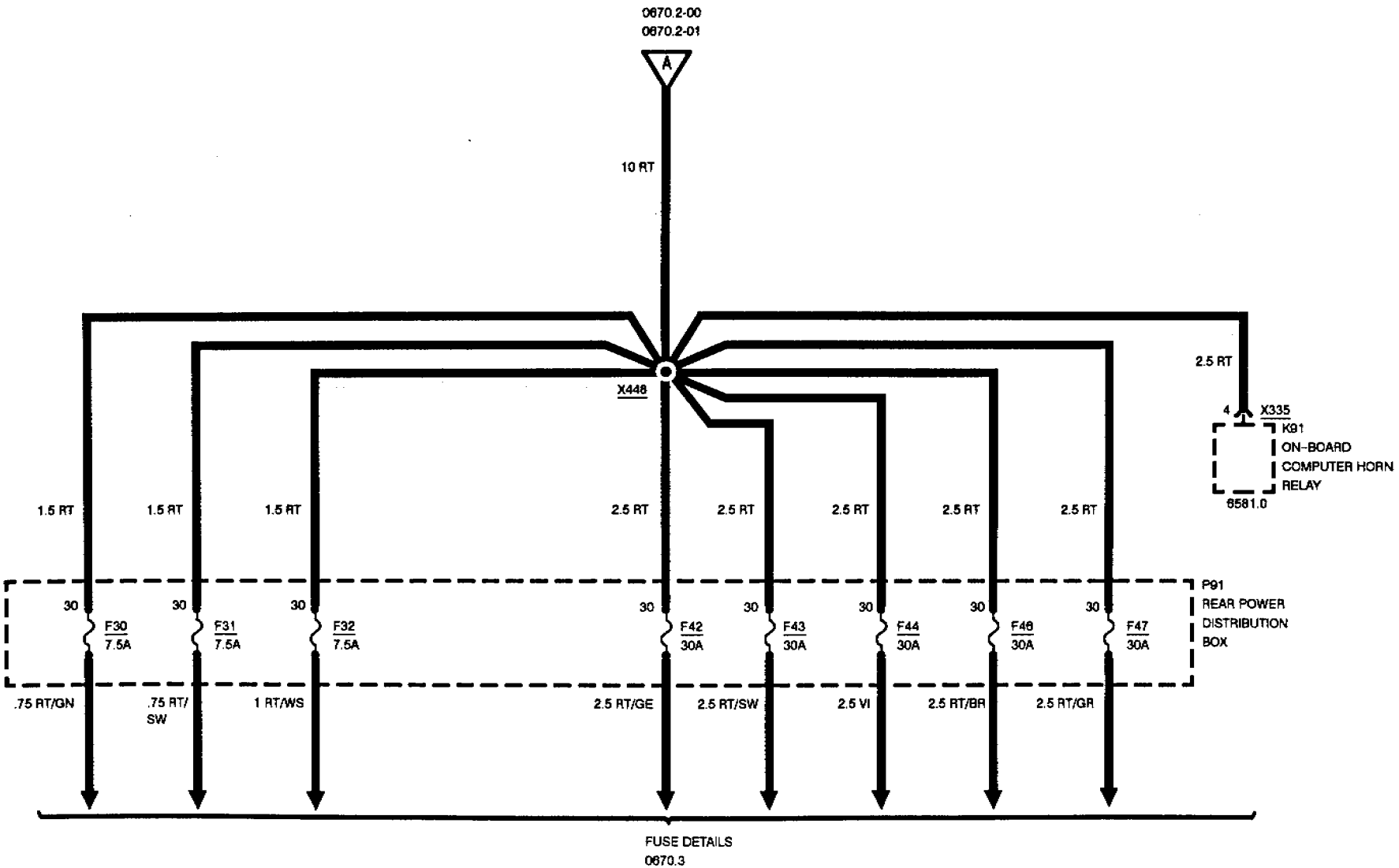
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POWER DISTRIBUTION

REAR POWER DISTRIBUTION BOX

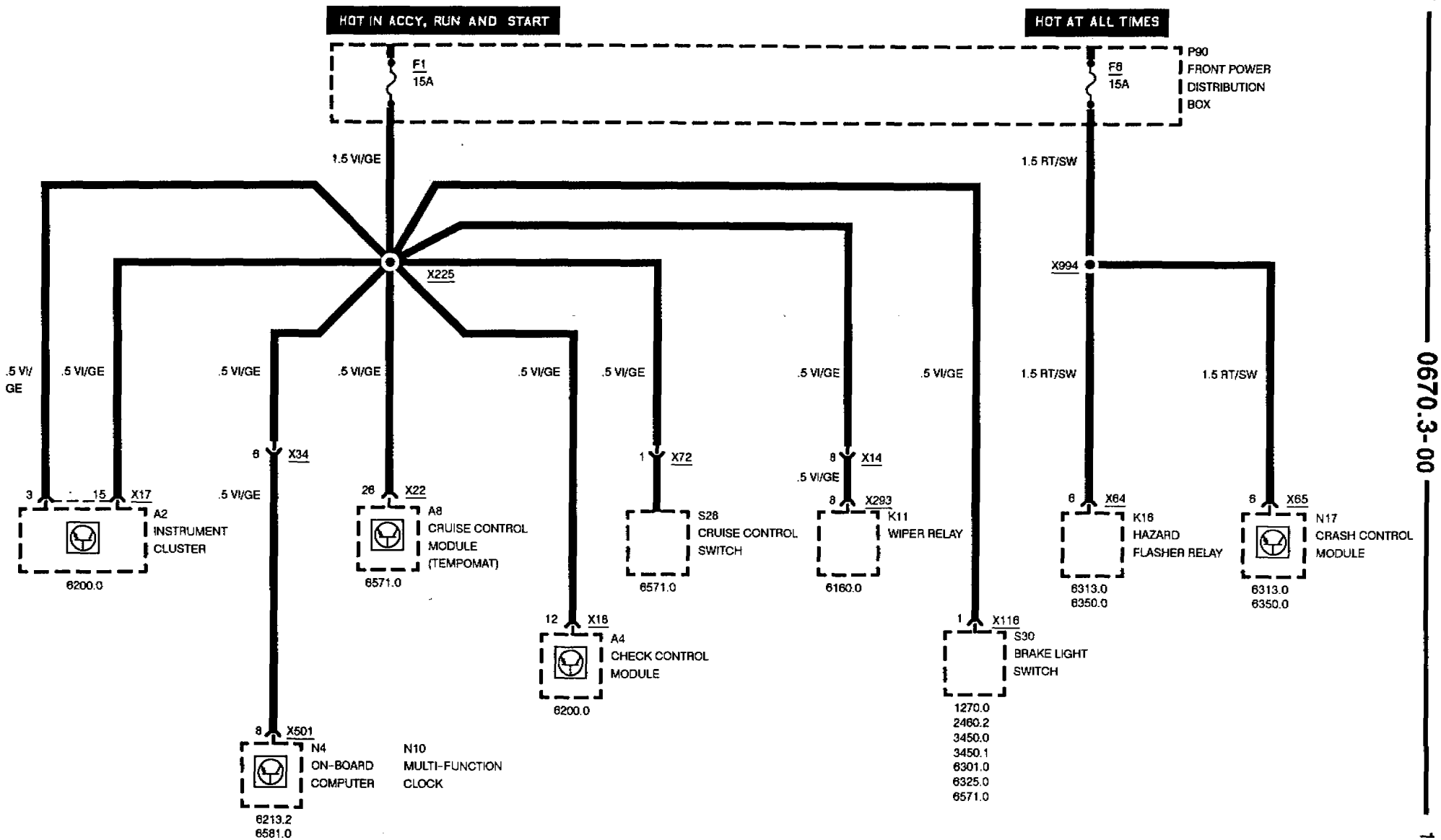


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FUSE DETAILS

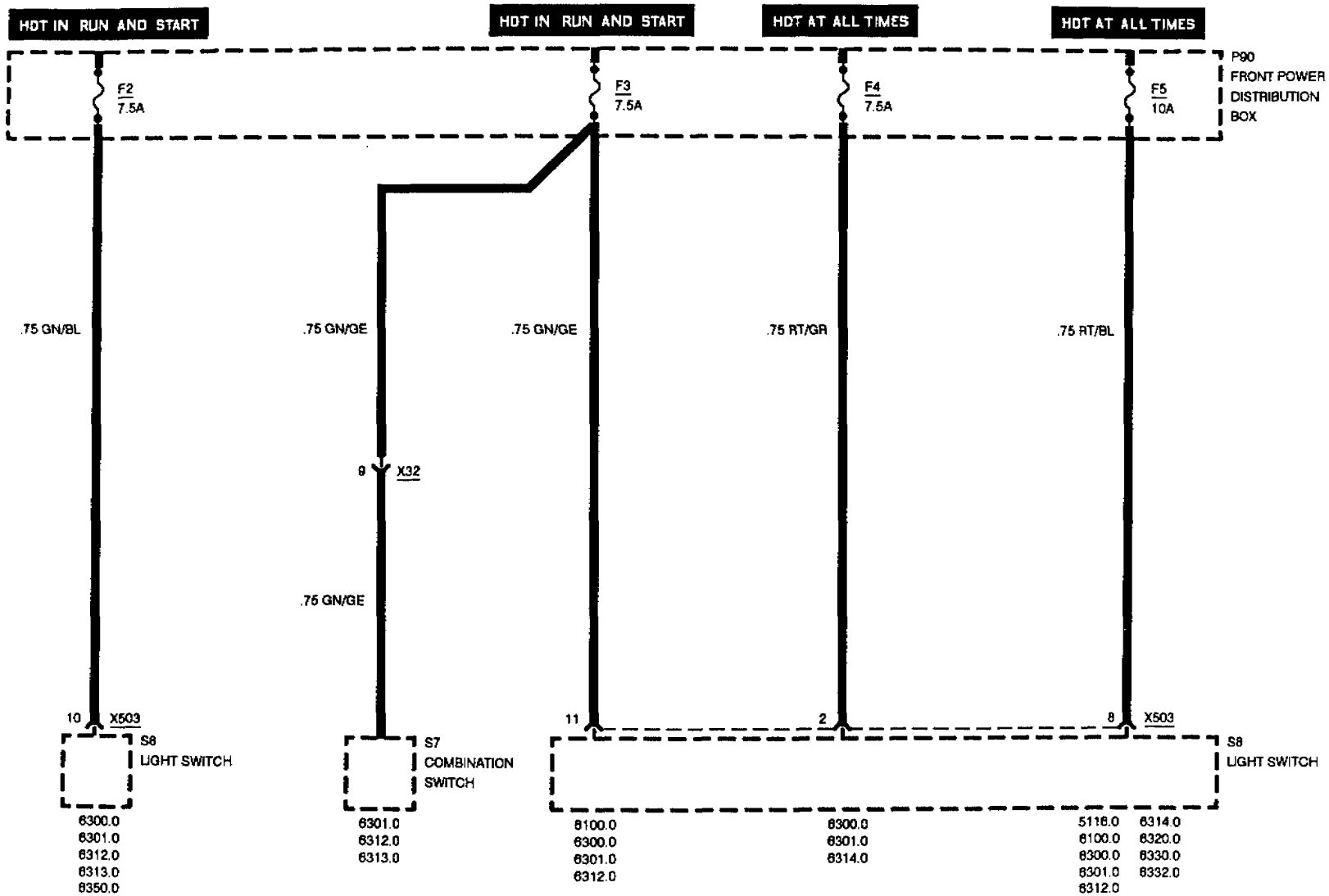
FUSES 1 AND 6



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FUSE DETAILS

FUSES 2, 3, 4, AND 5

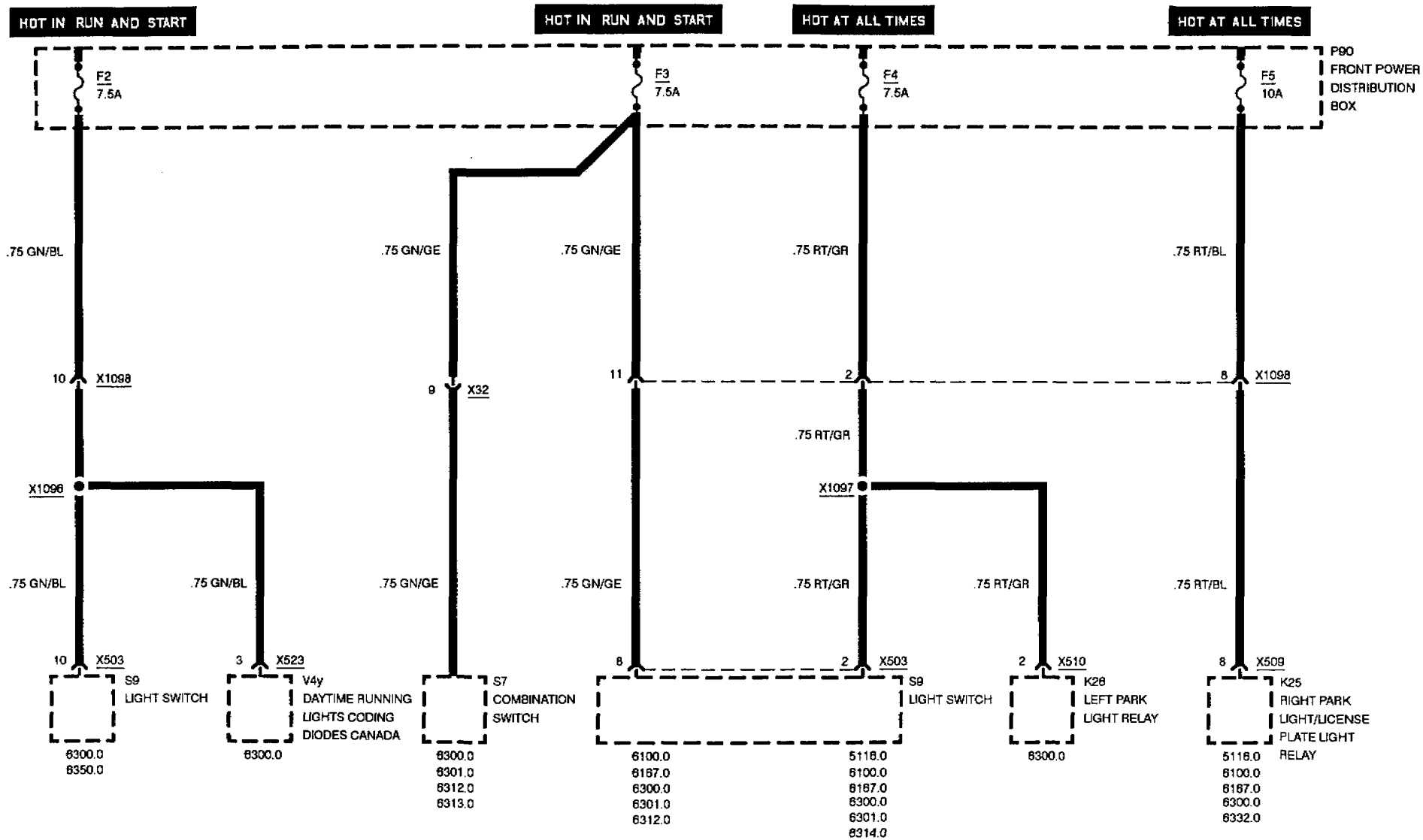


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FUSE DETAILS

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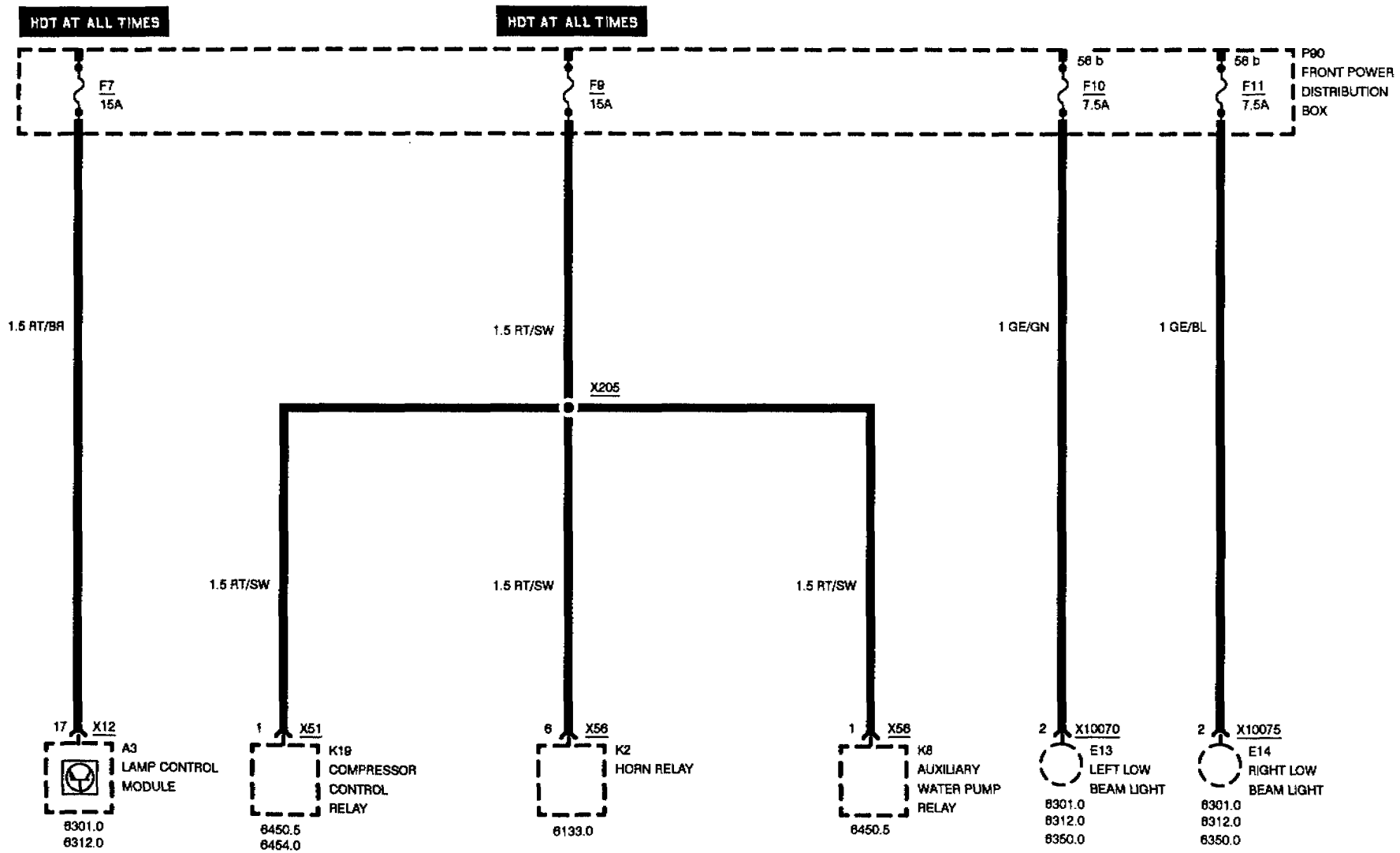
FUSES 2, 3, 4, AND 5



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FUSE DETAILS

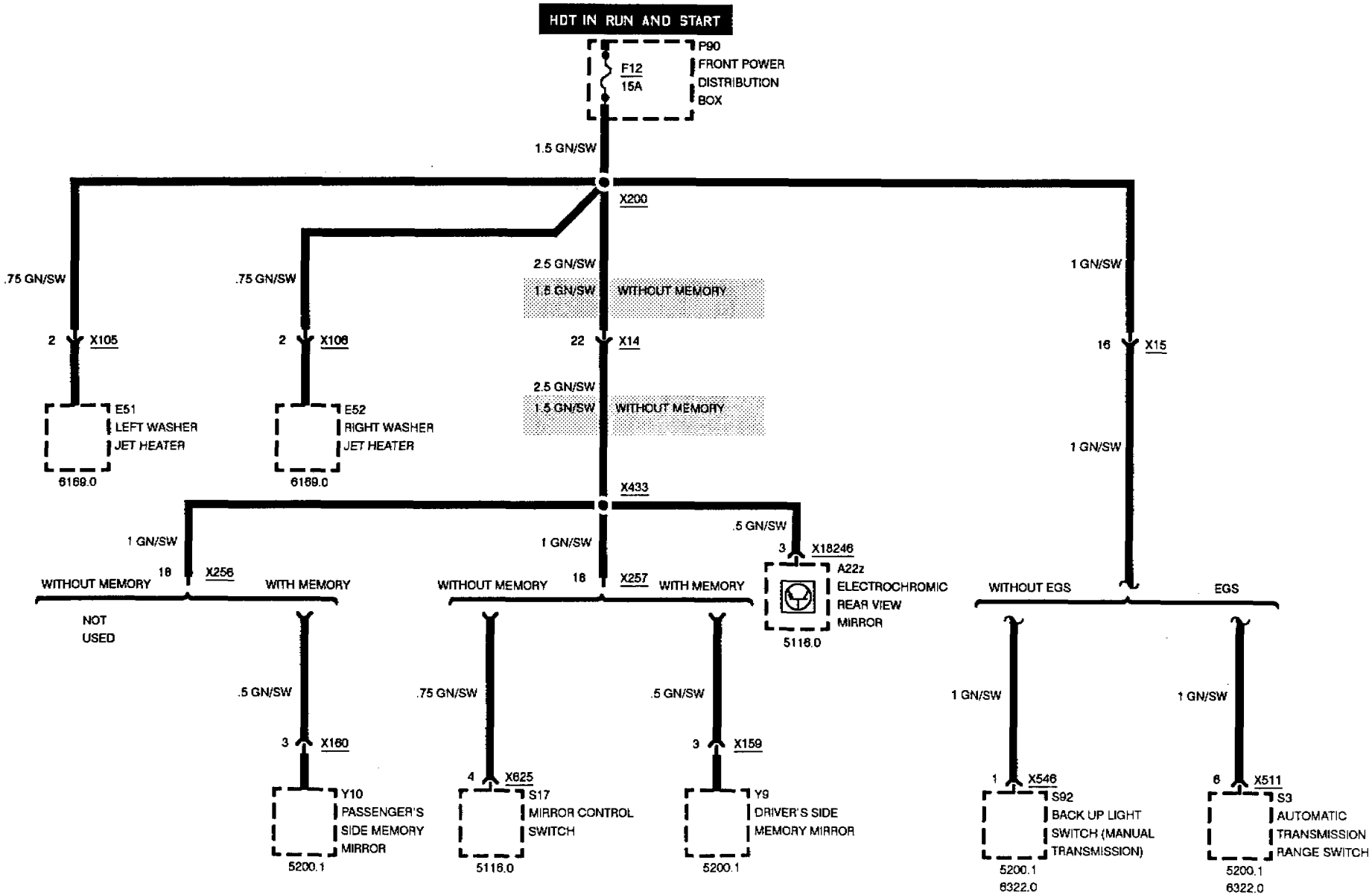
FUSES 7, 9, 10, AND 11



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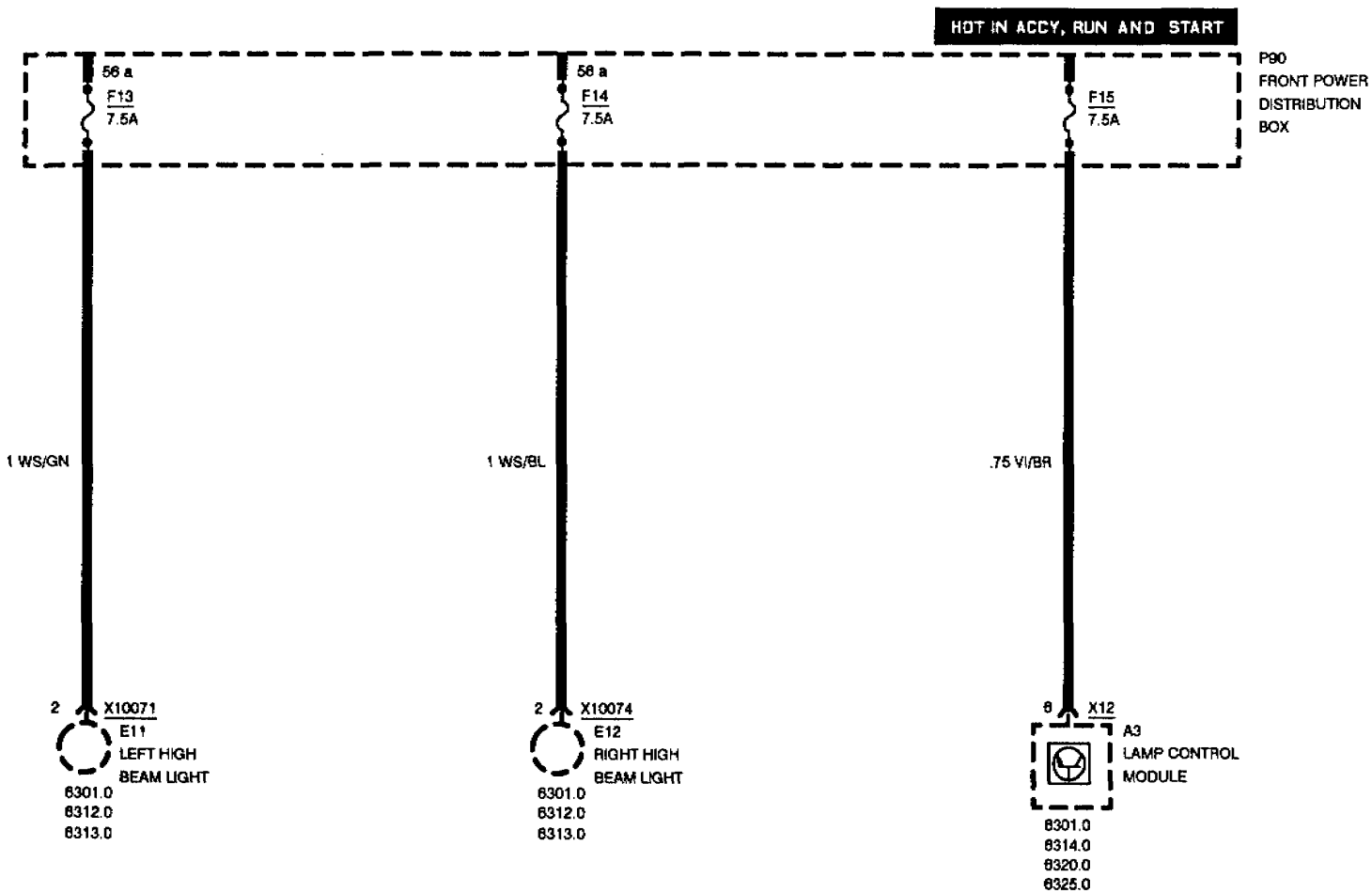
FUSE 12



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FUSE DETAILS

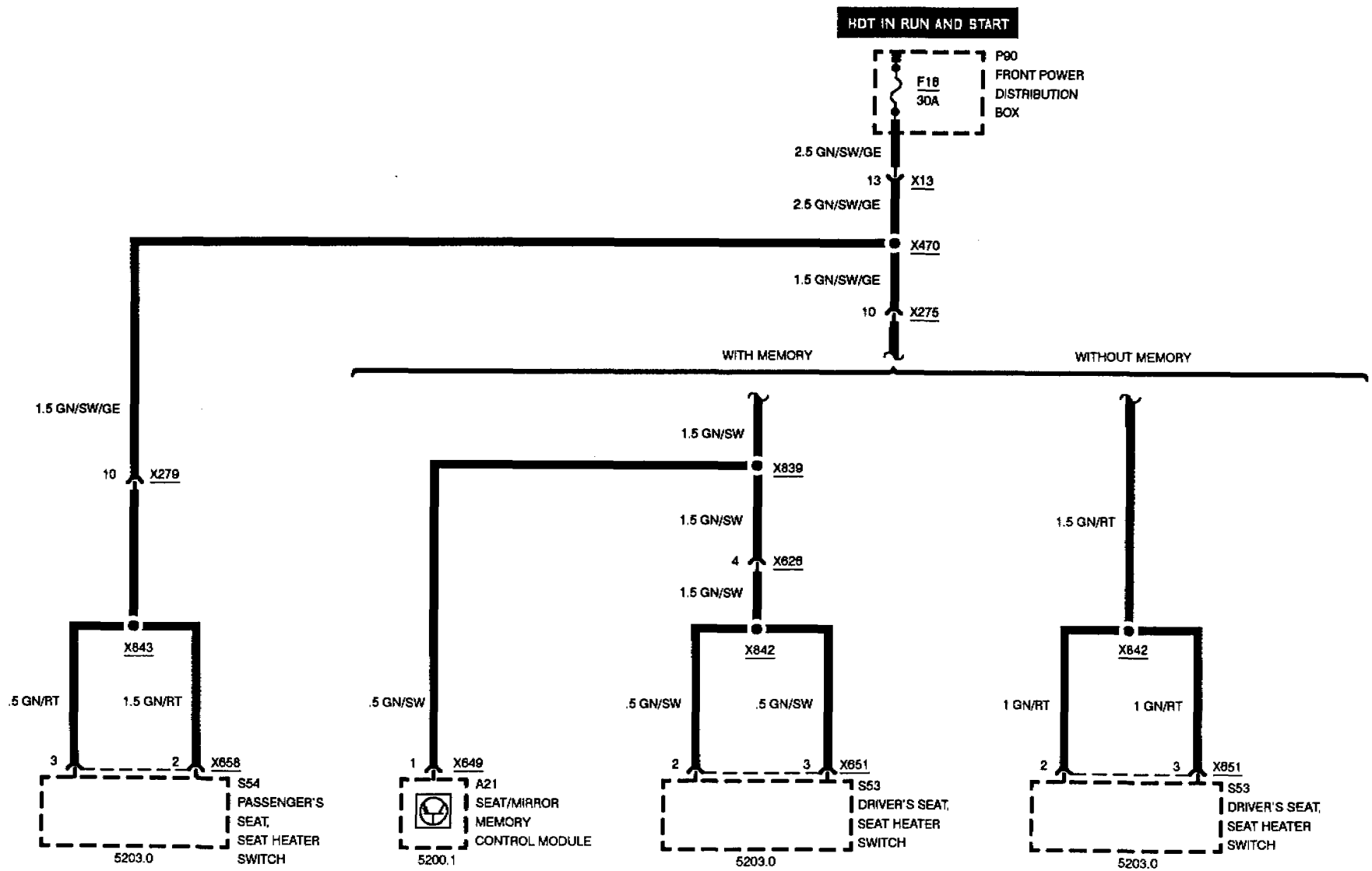
FUSES 13, 14, AND 15



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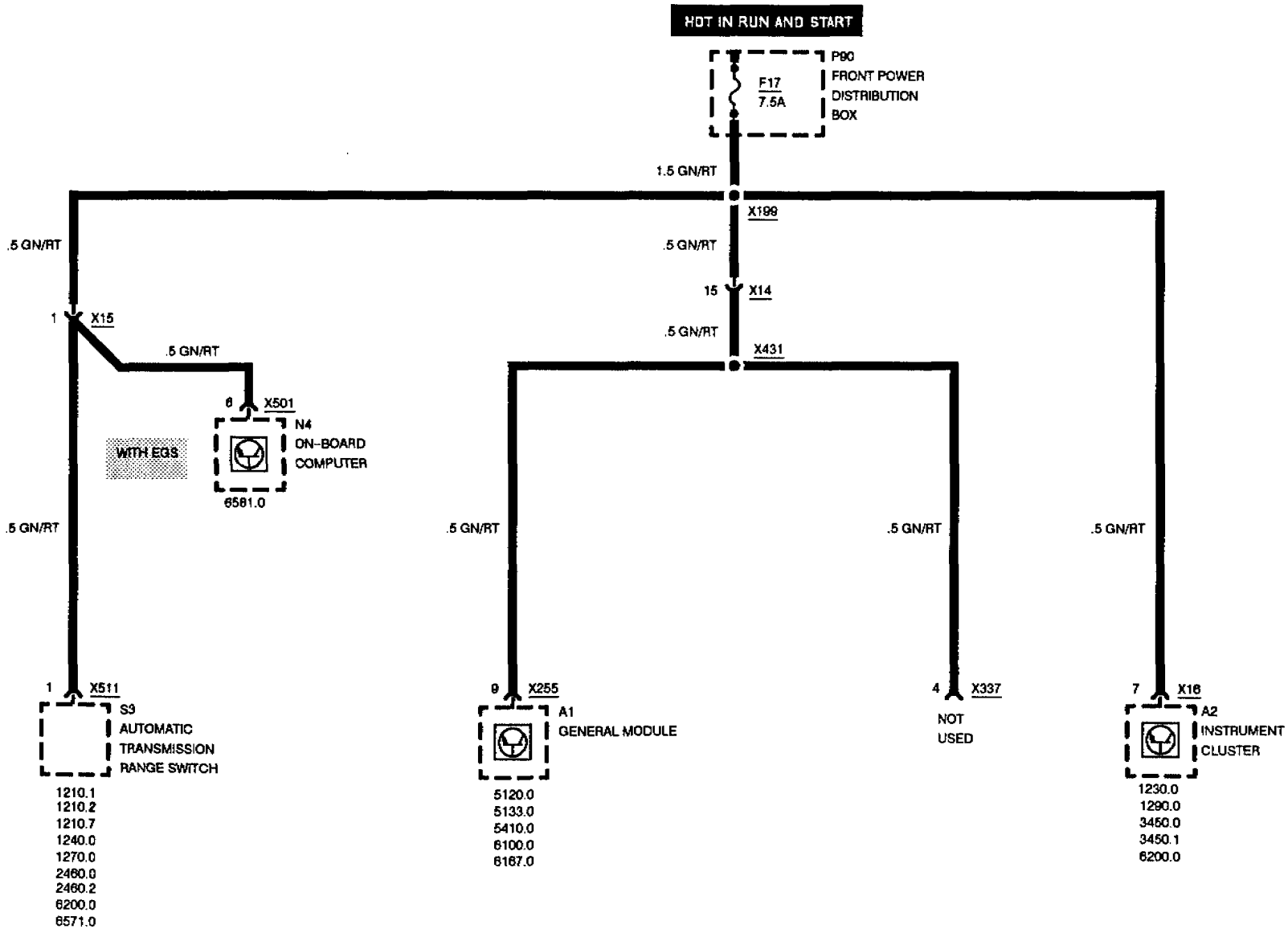
FUSE 16



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FUSE DETAILS

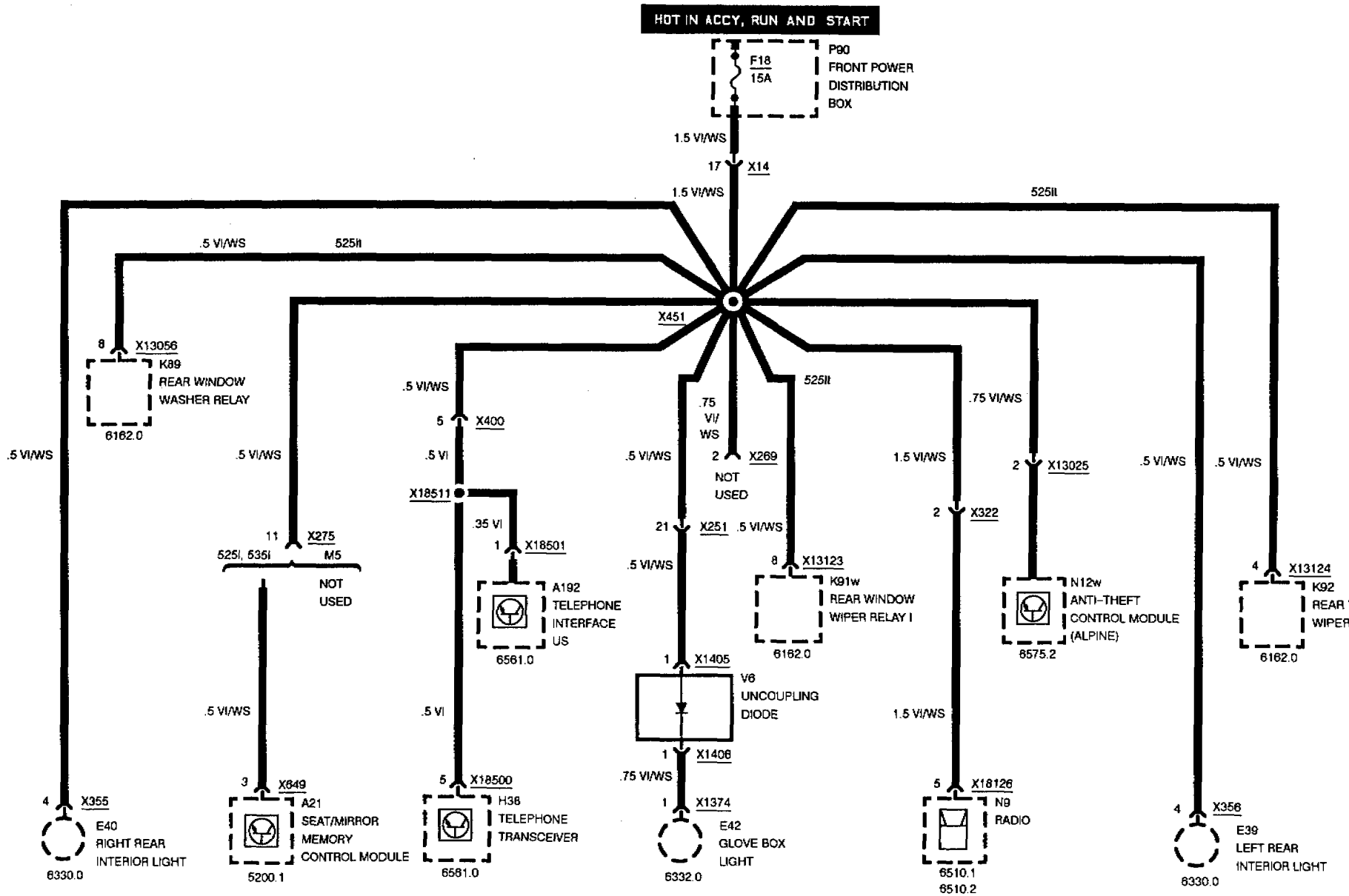
FUSE 17



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FUSE DETAILS

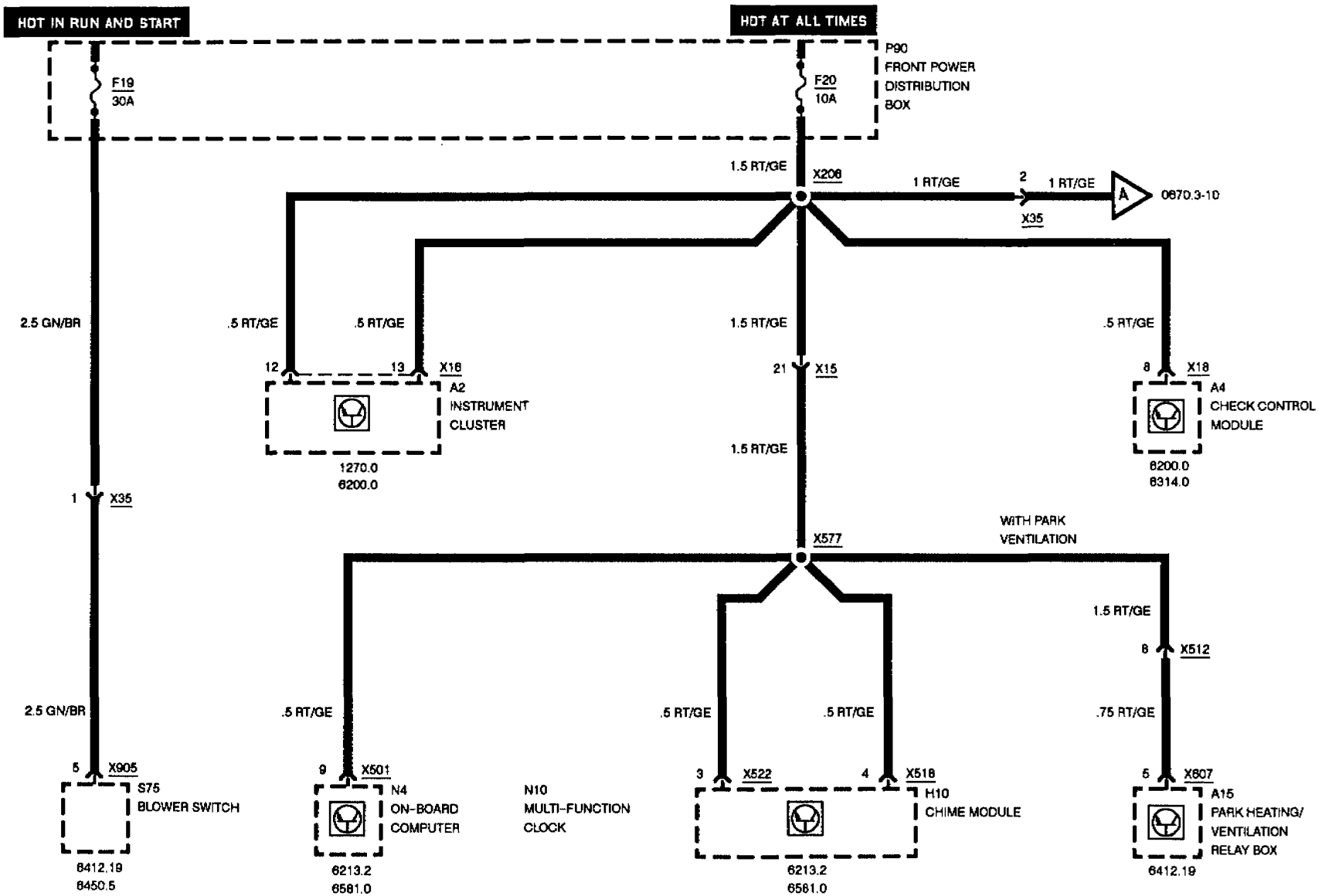
FUSE 18



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FUSE DETAILS

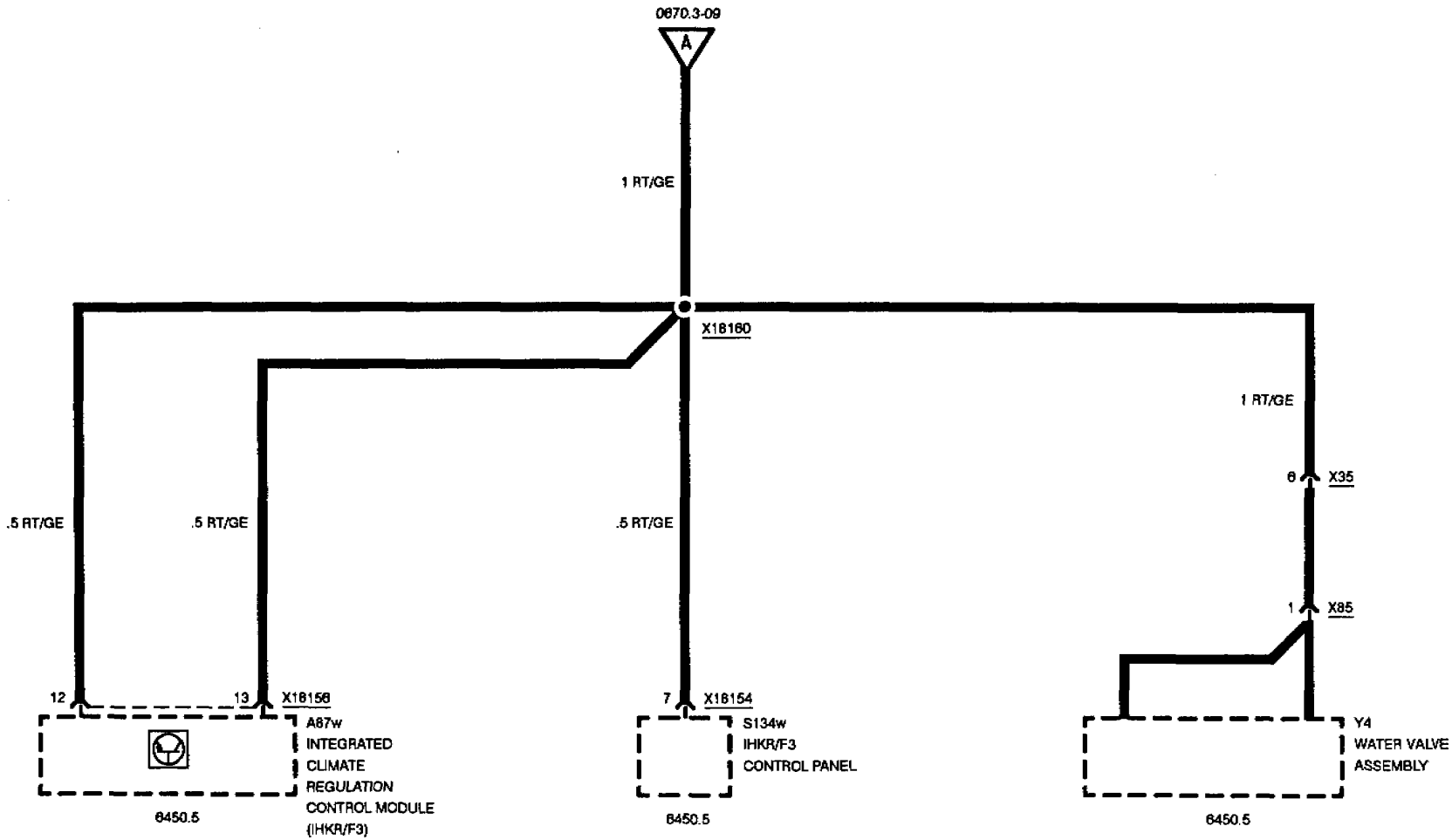
FUSES 19 AND 20



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FUSE DETAILS

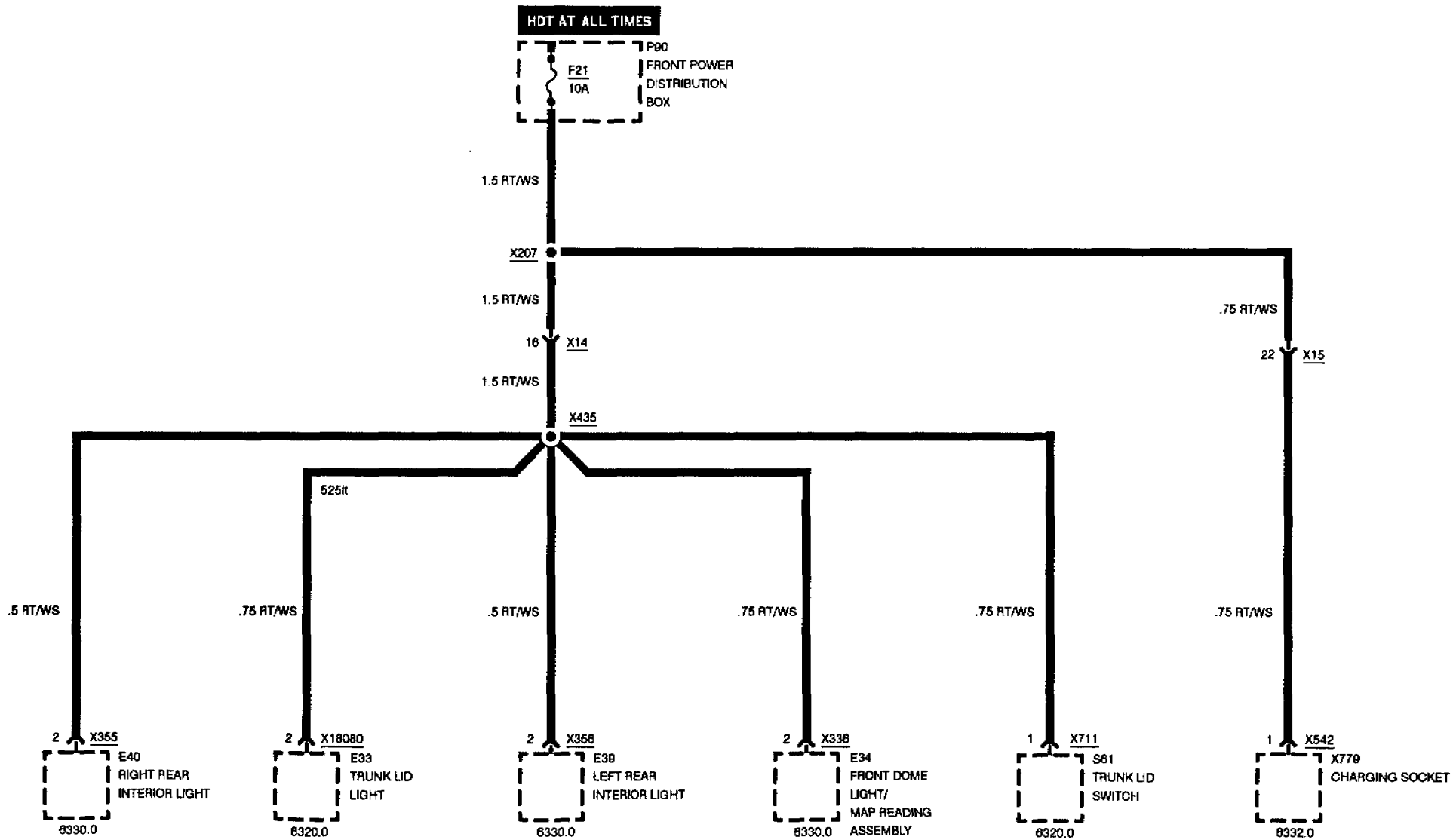
FUSE 20



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FUSE DETAILS

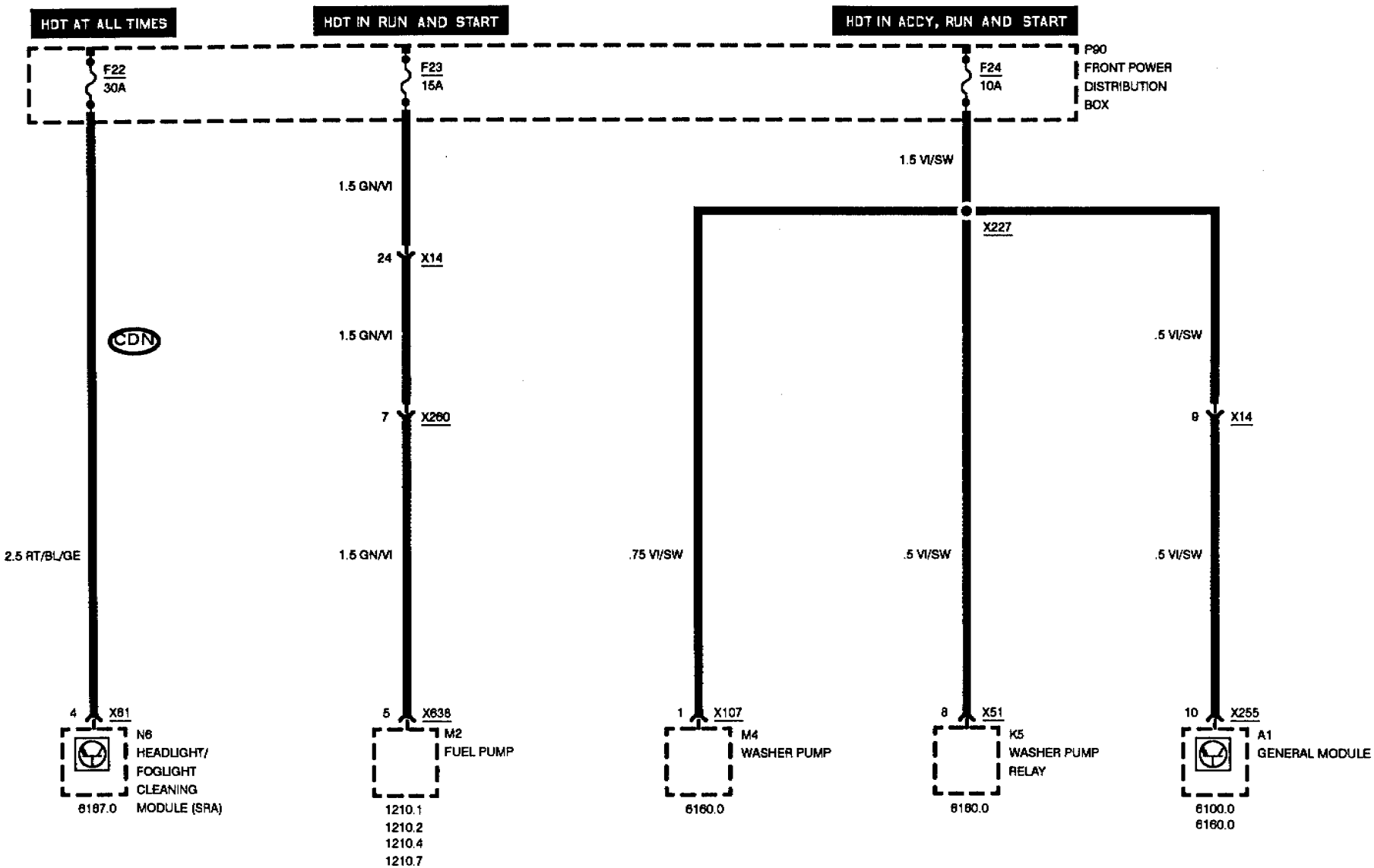
FUSE 21



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FUSE DETAILS

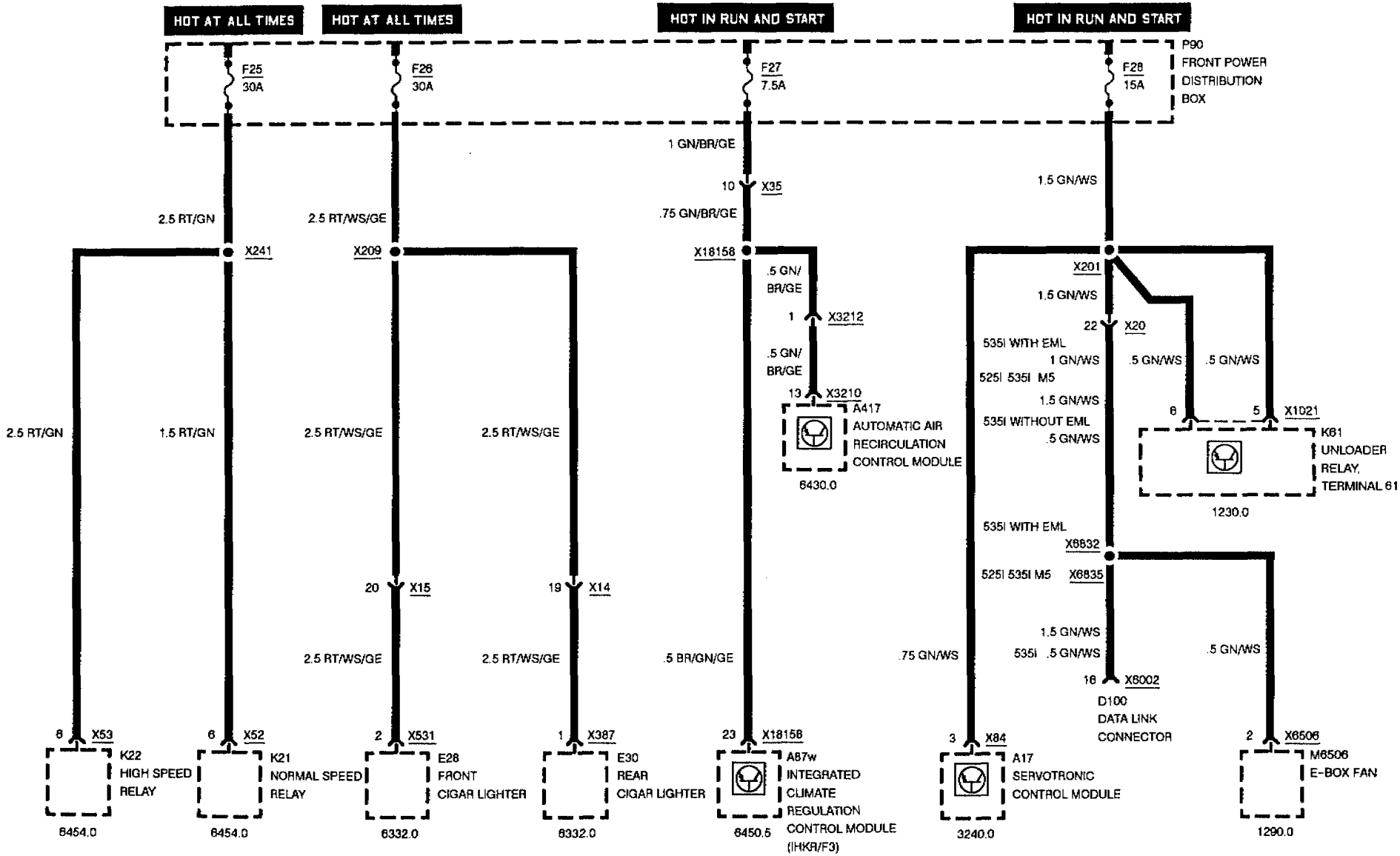
FUSES 22, 23, AND 24



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FUSE DETAILS

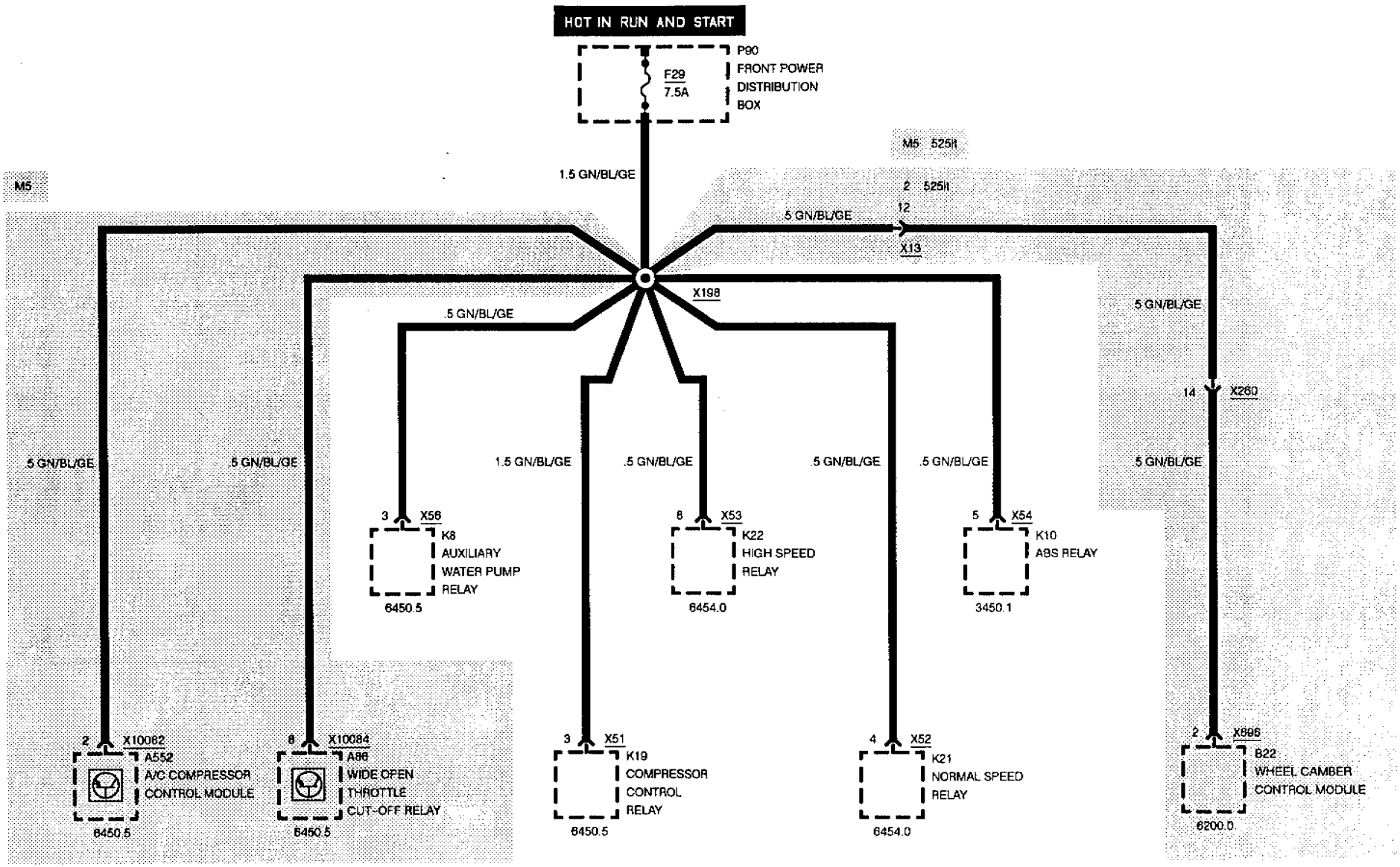
FUSES 25, 26, 27, AND 28



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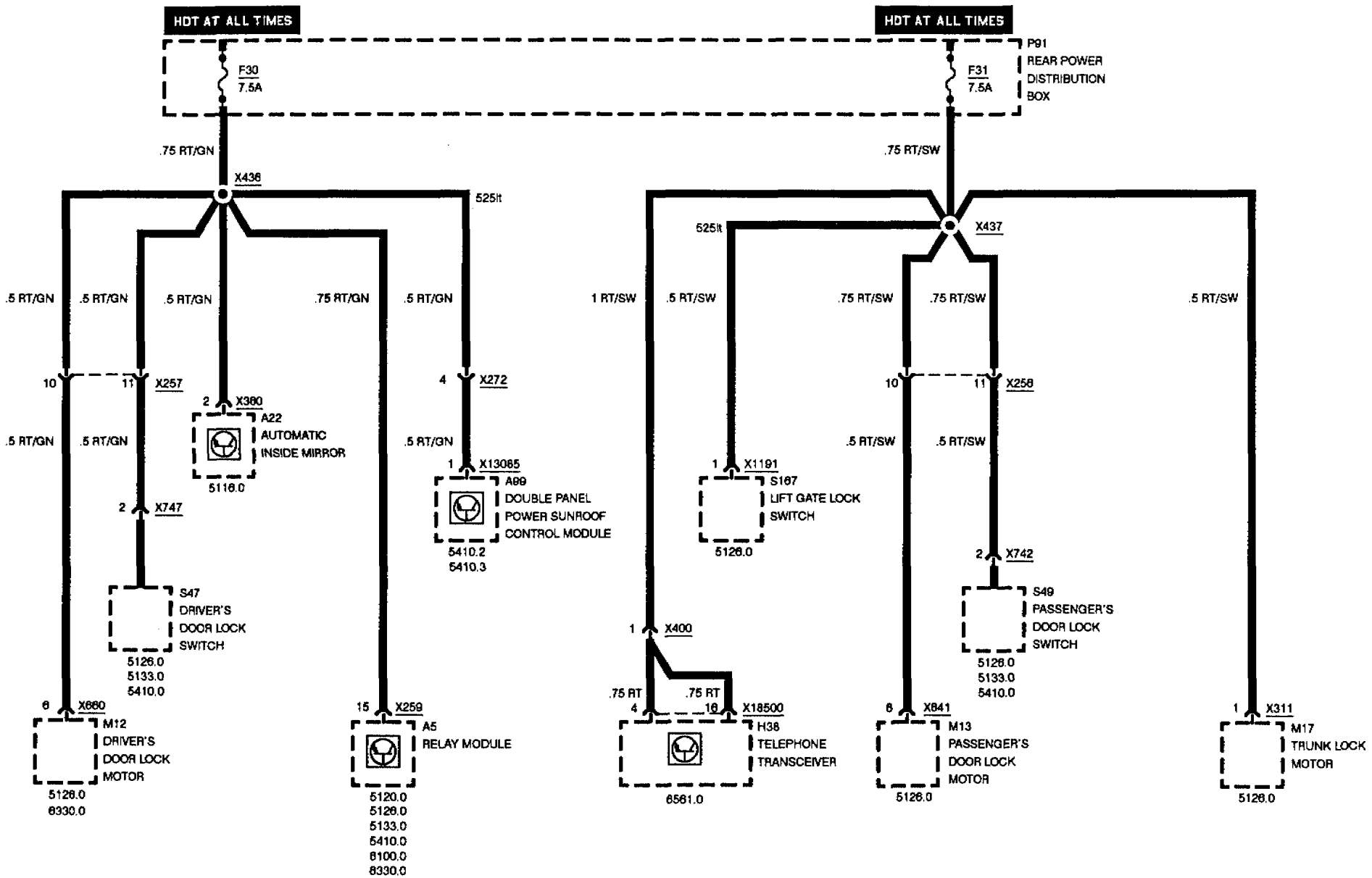
FUSE 29



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FUSE DETAILS

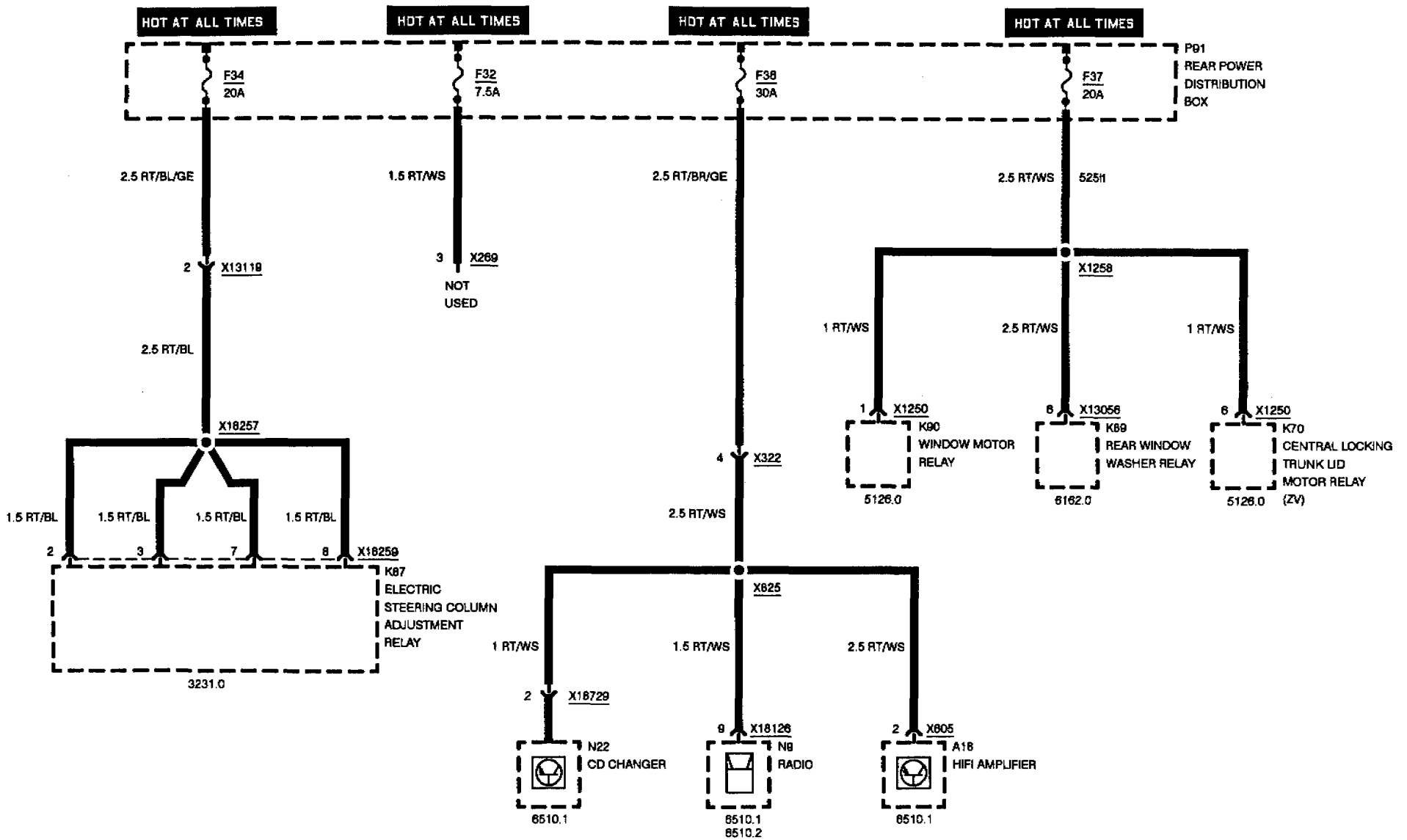
FUSES 30 AND 31



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FUSE DETAILS

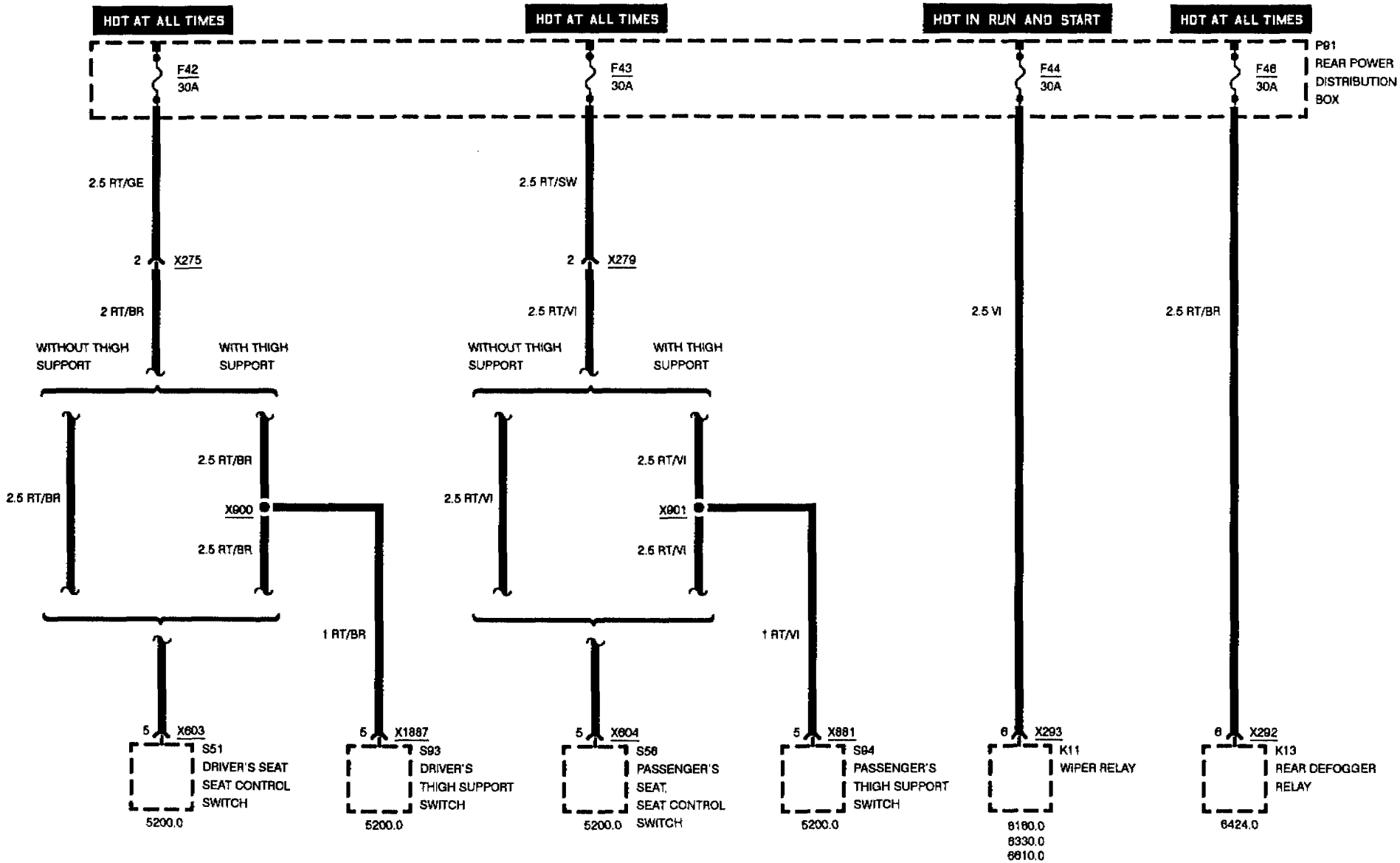
FUSES 32, 34, 36, 37, AND 40



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FUSE DETAILS

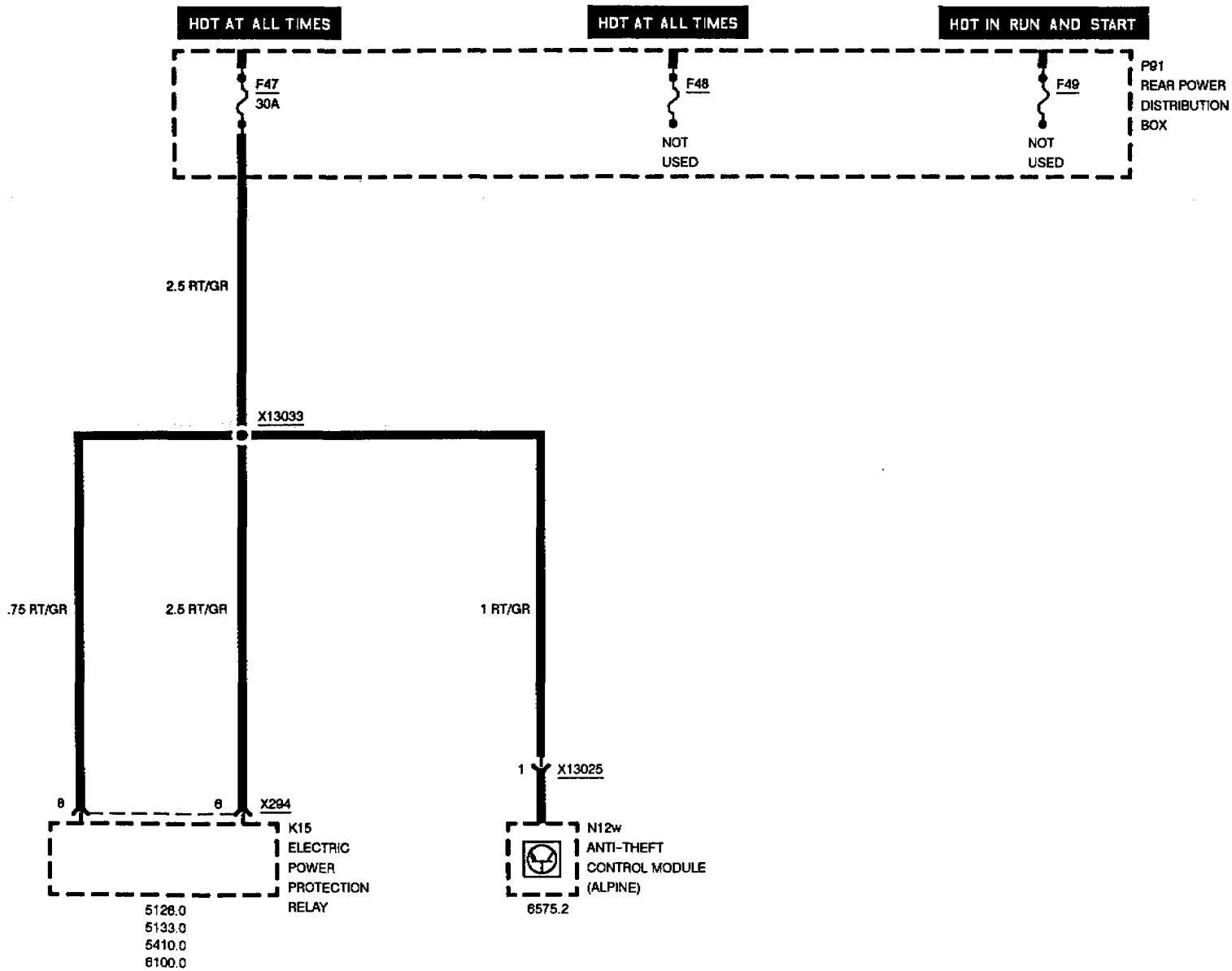
FUSES 42, 43, 44, AND 46



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FUSE DETAILS

FUSES 47, 48, AND 49

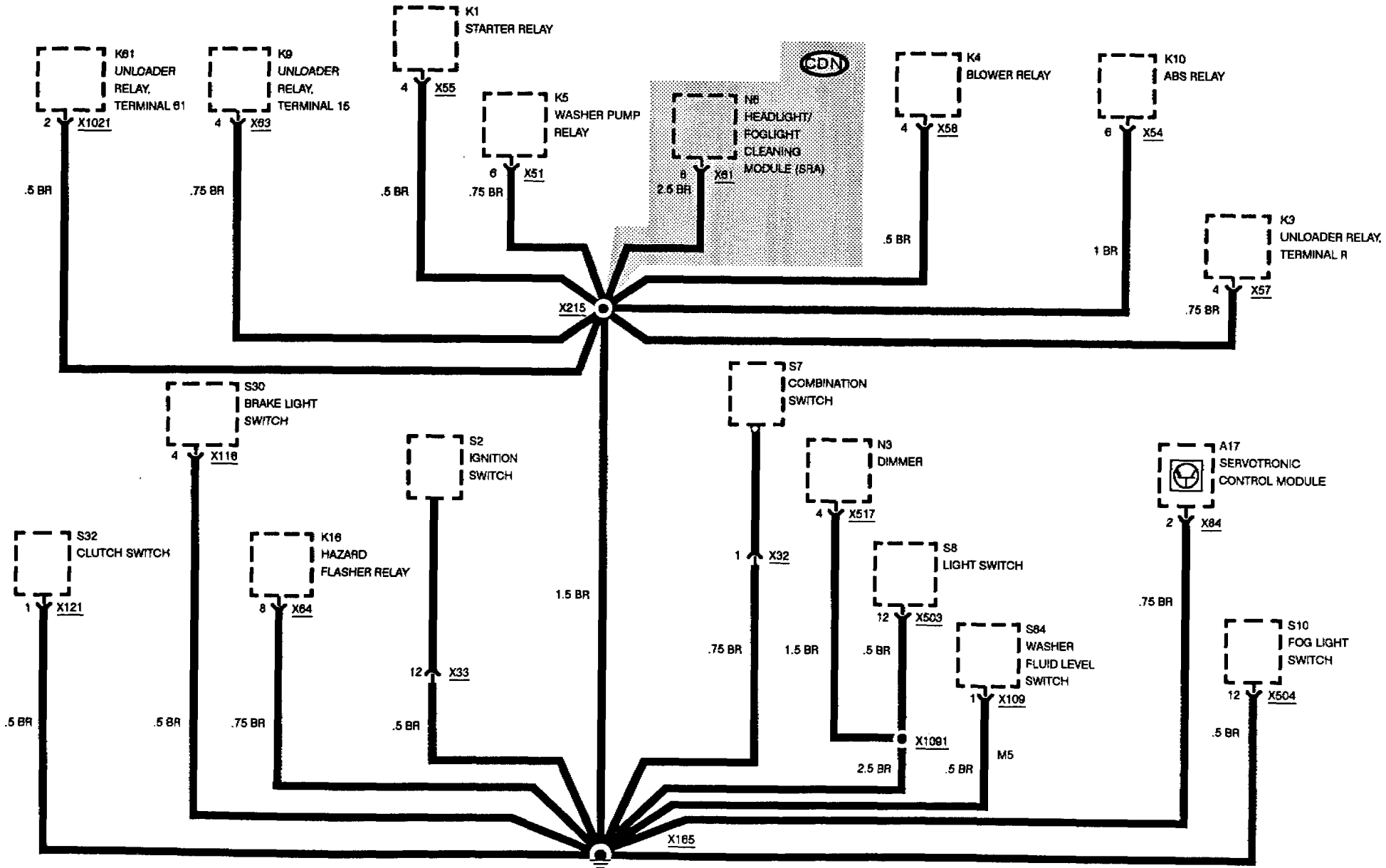


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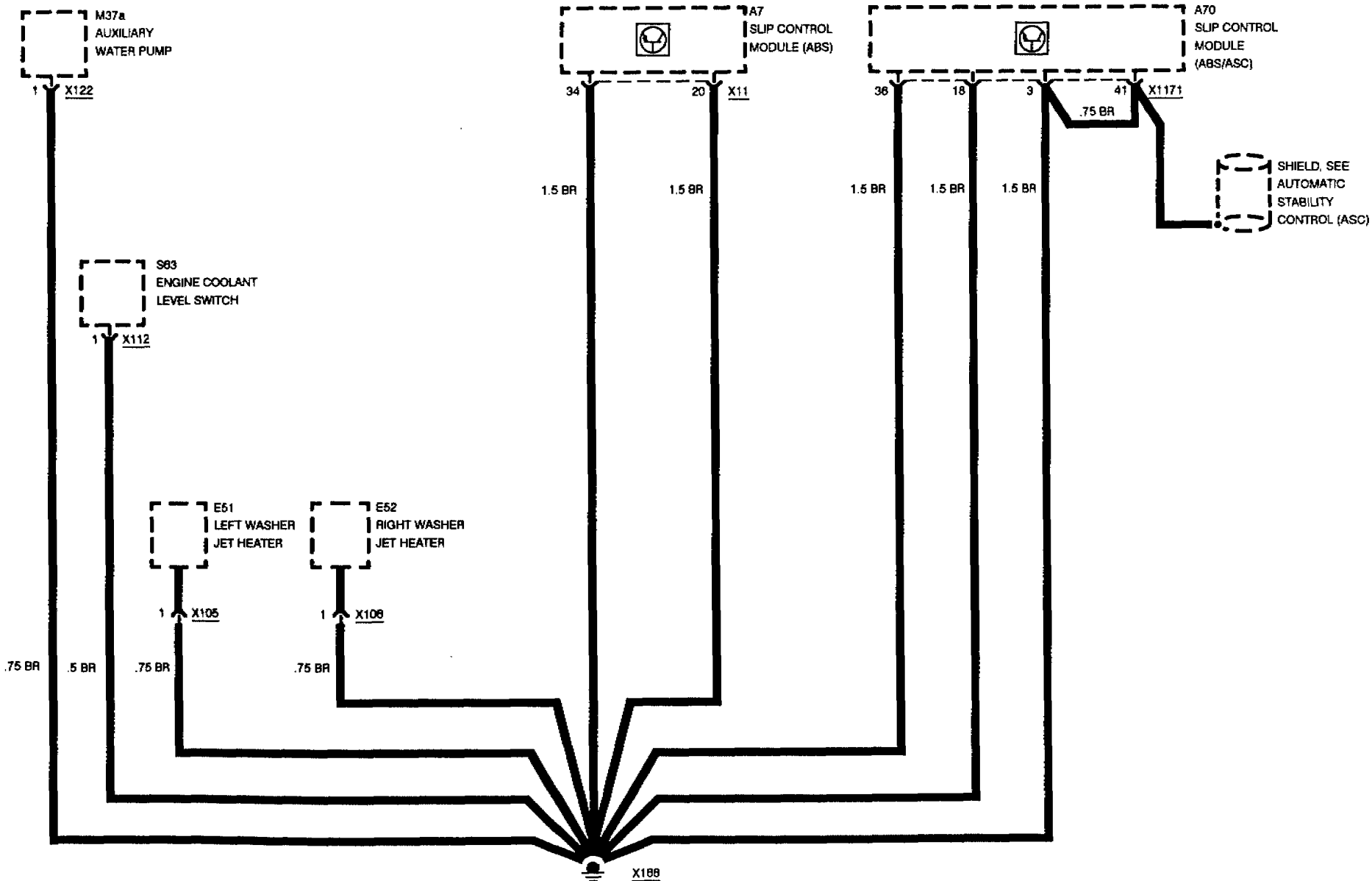
GROUND X165



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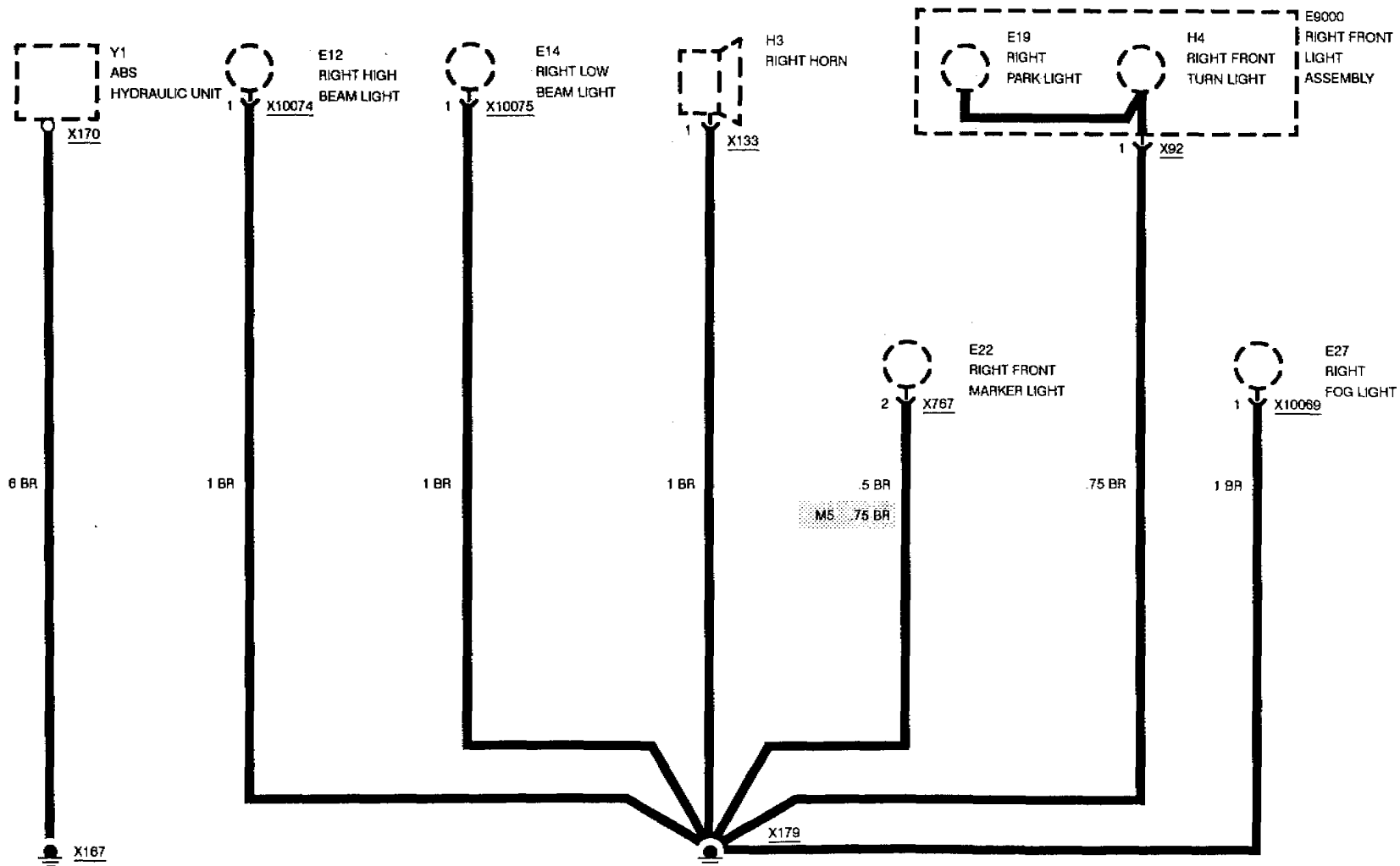
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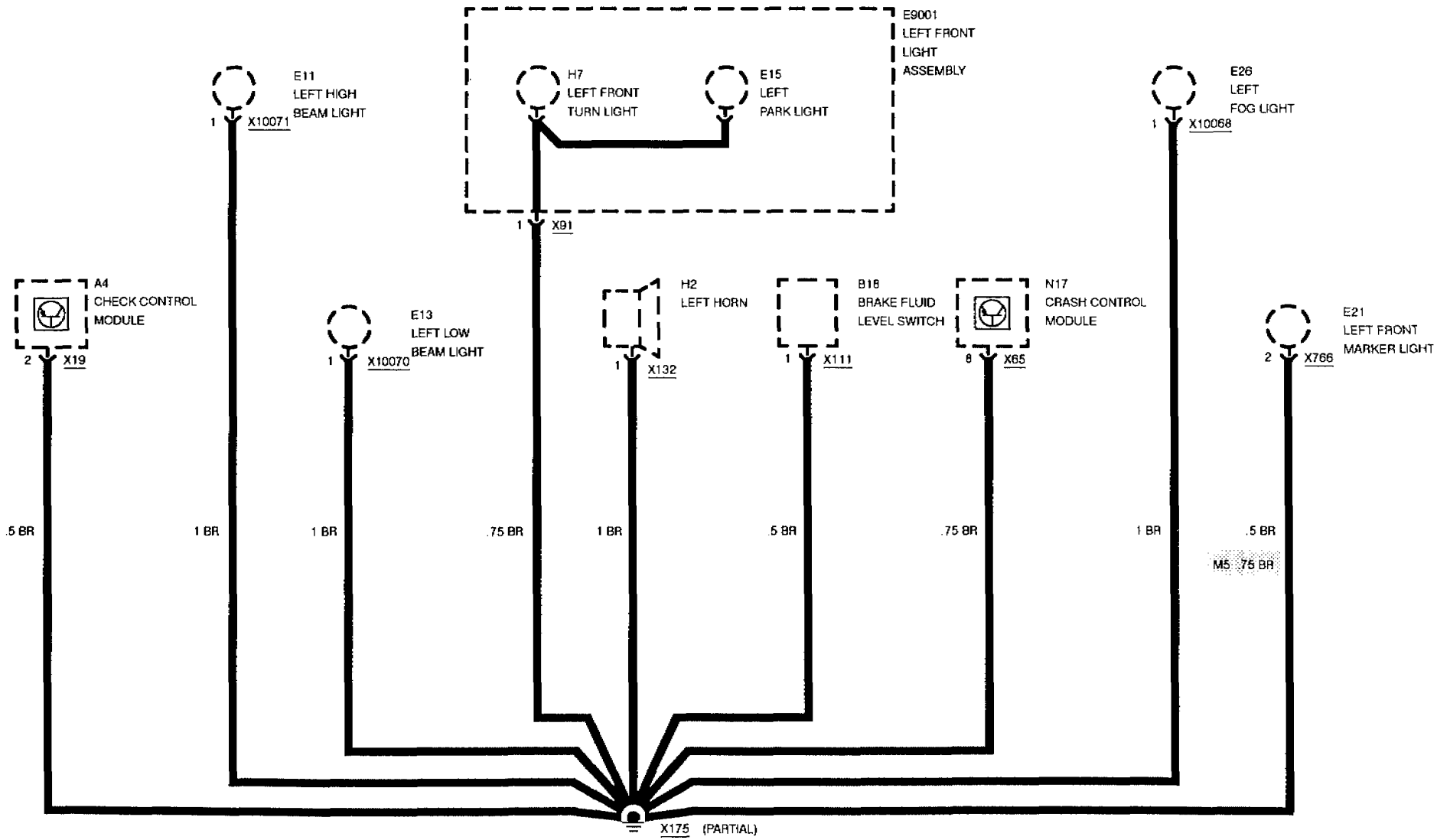
GROUNDS X167 AND X179



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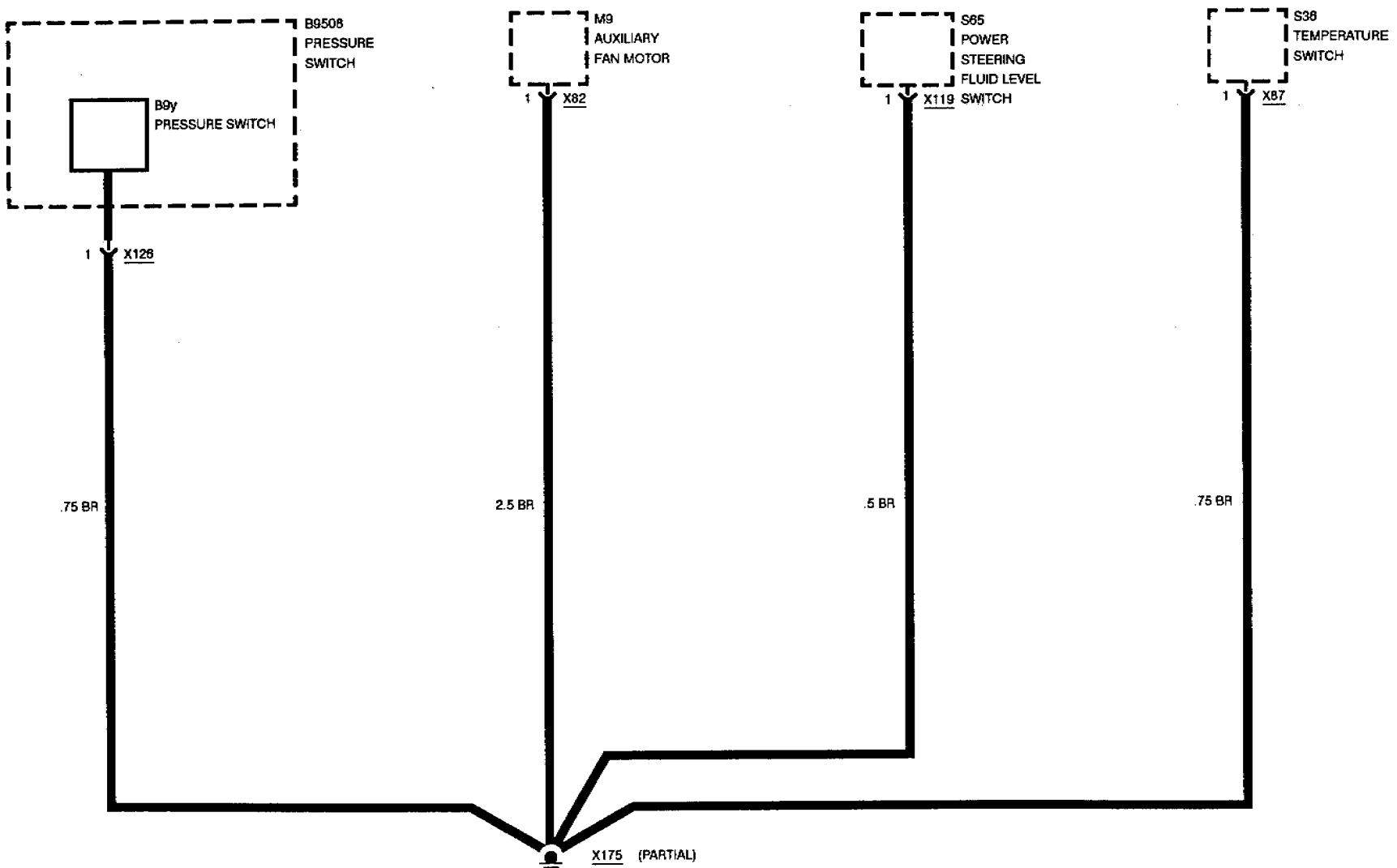
GROUND X175



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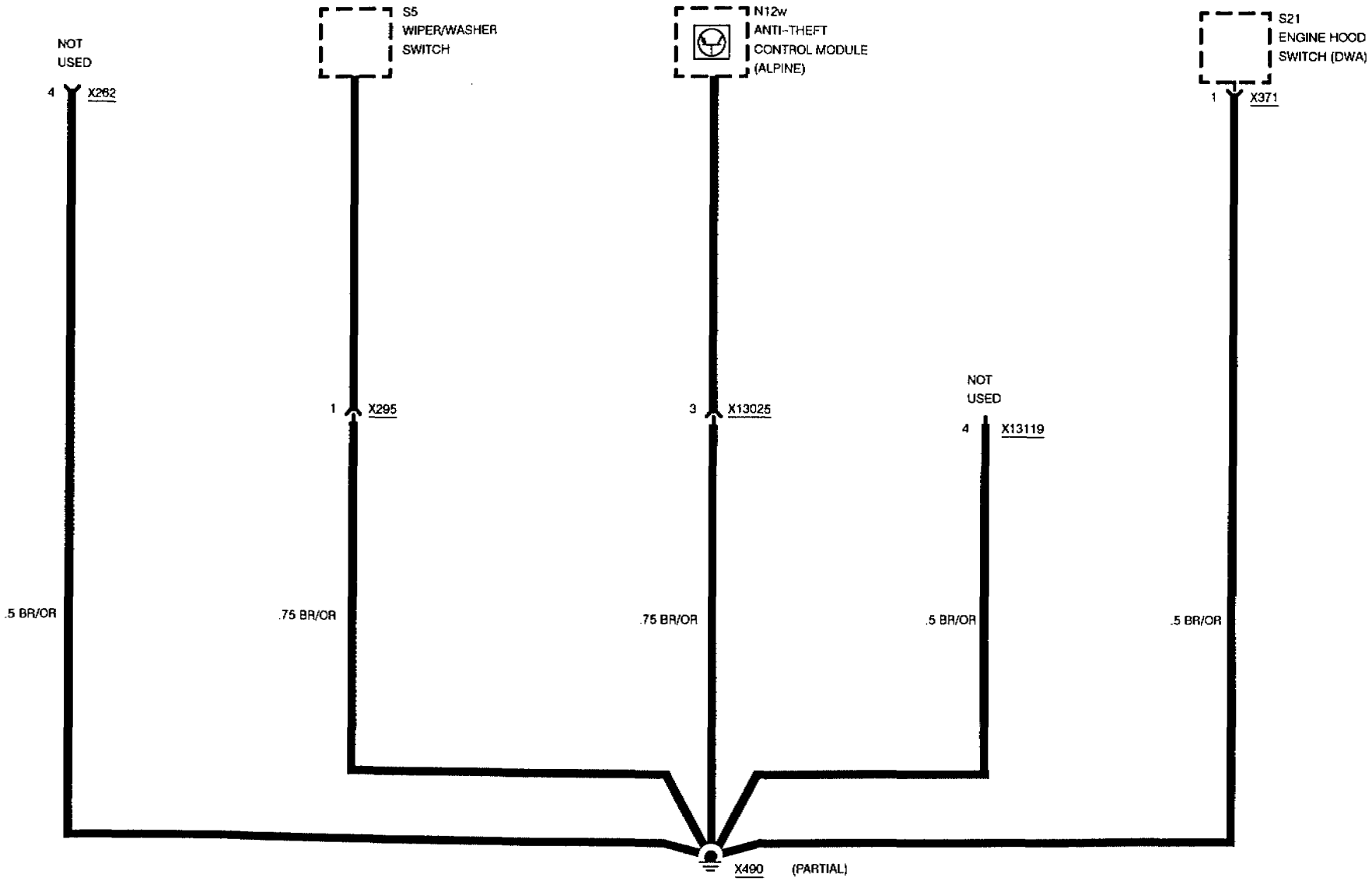
GROUND X175



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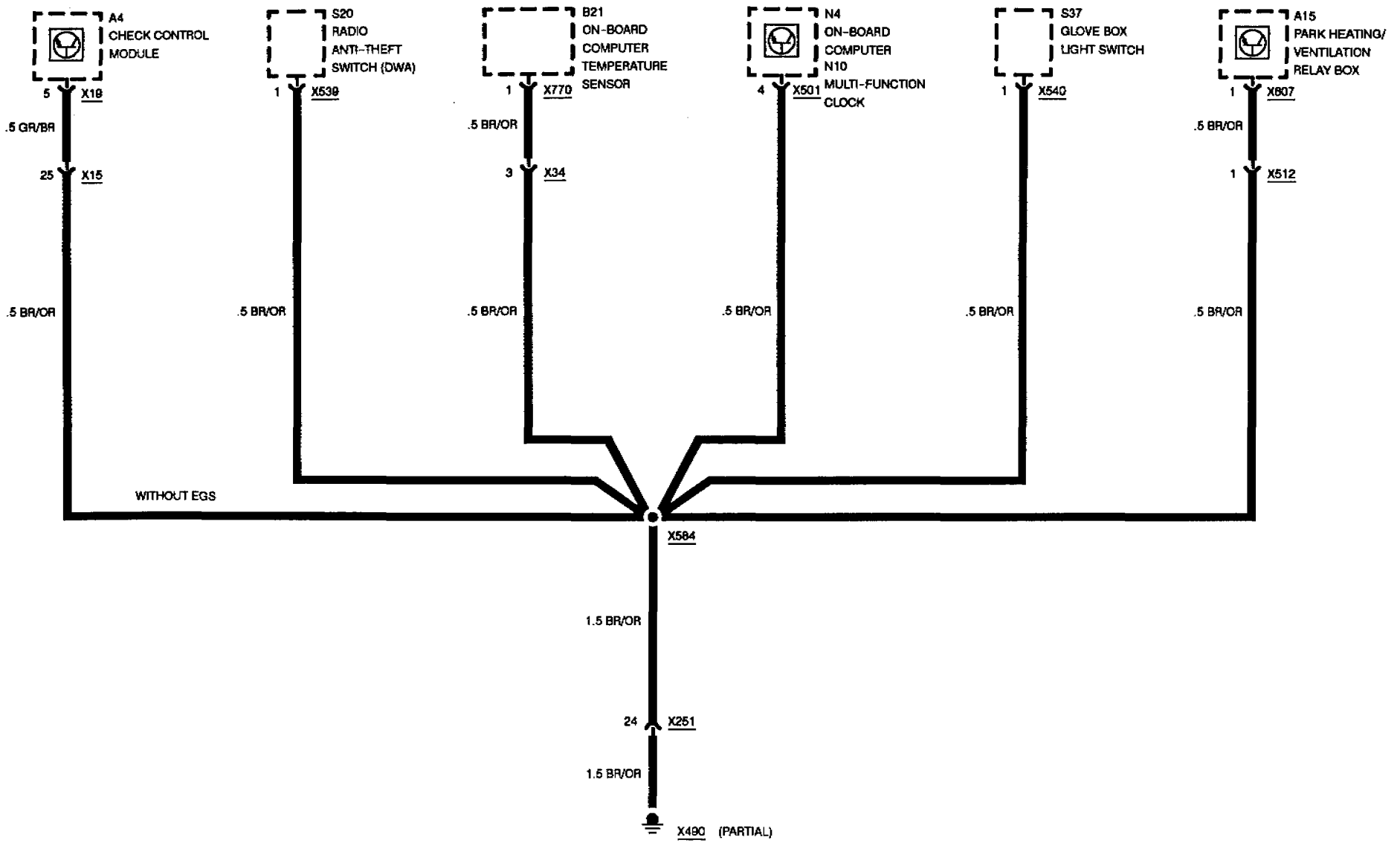
GROUND X490



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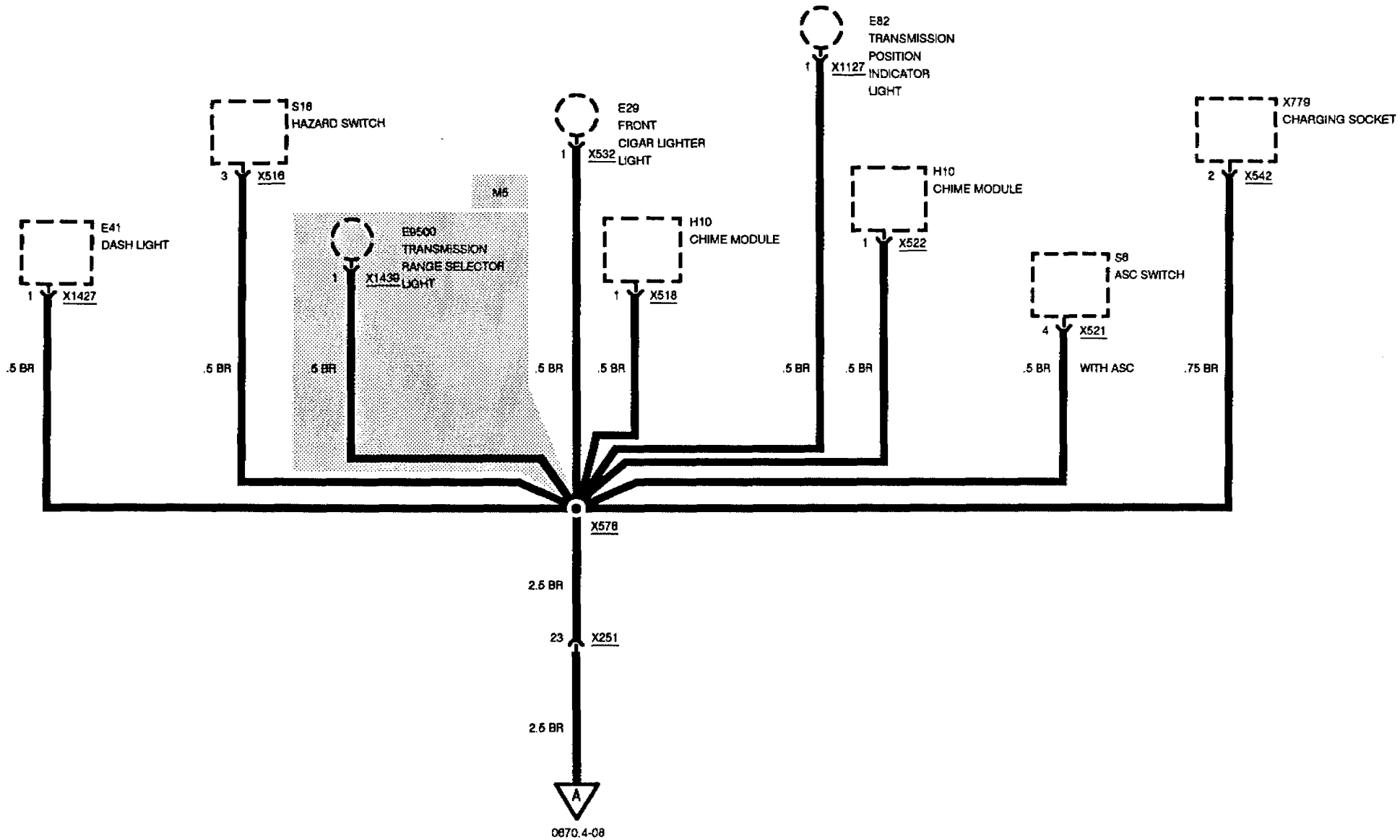
GROUND X490



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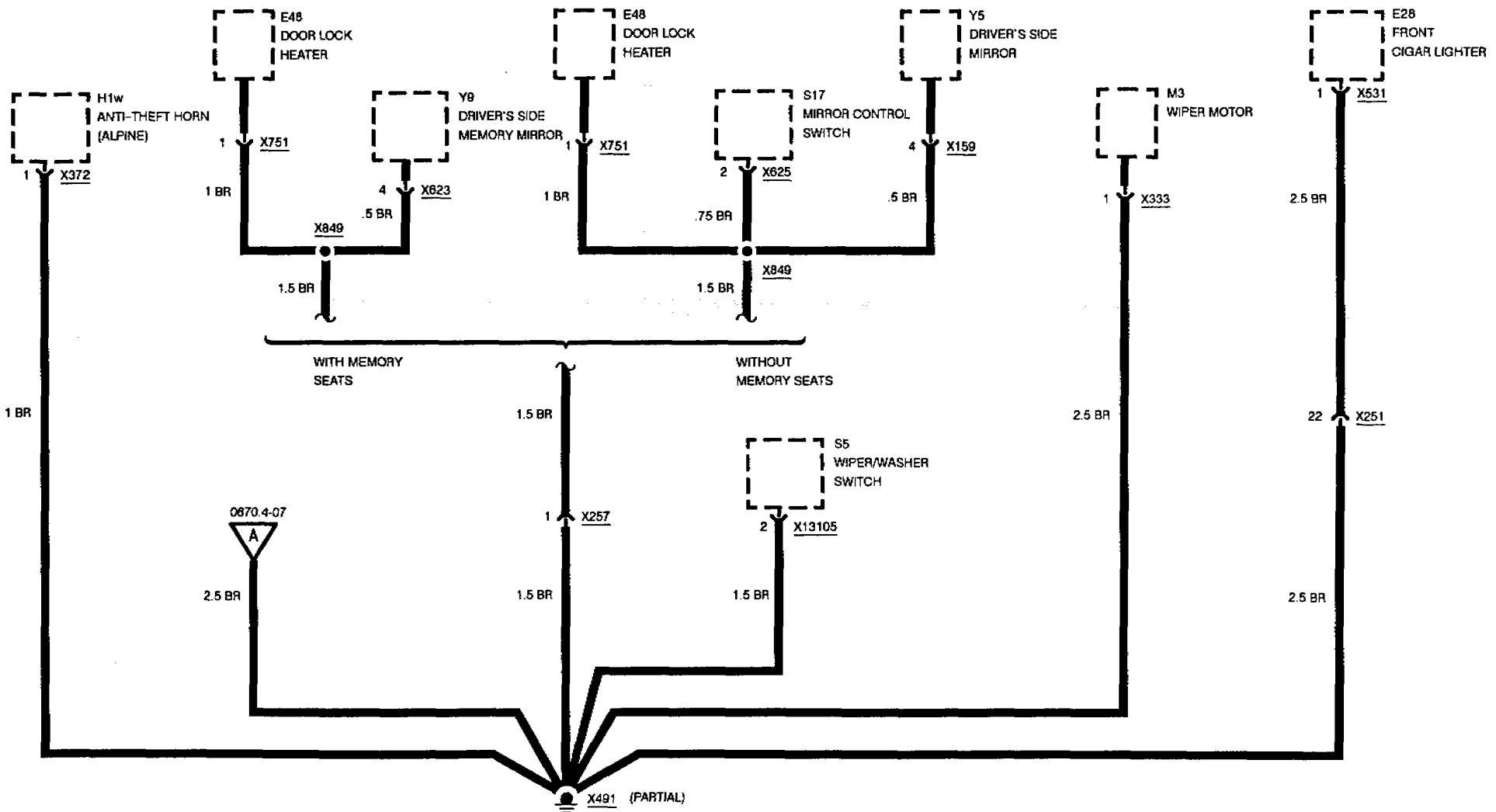
GROUND X491



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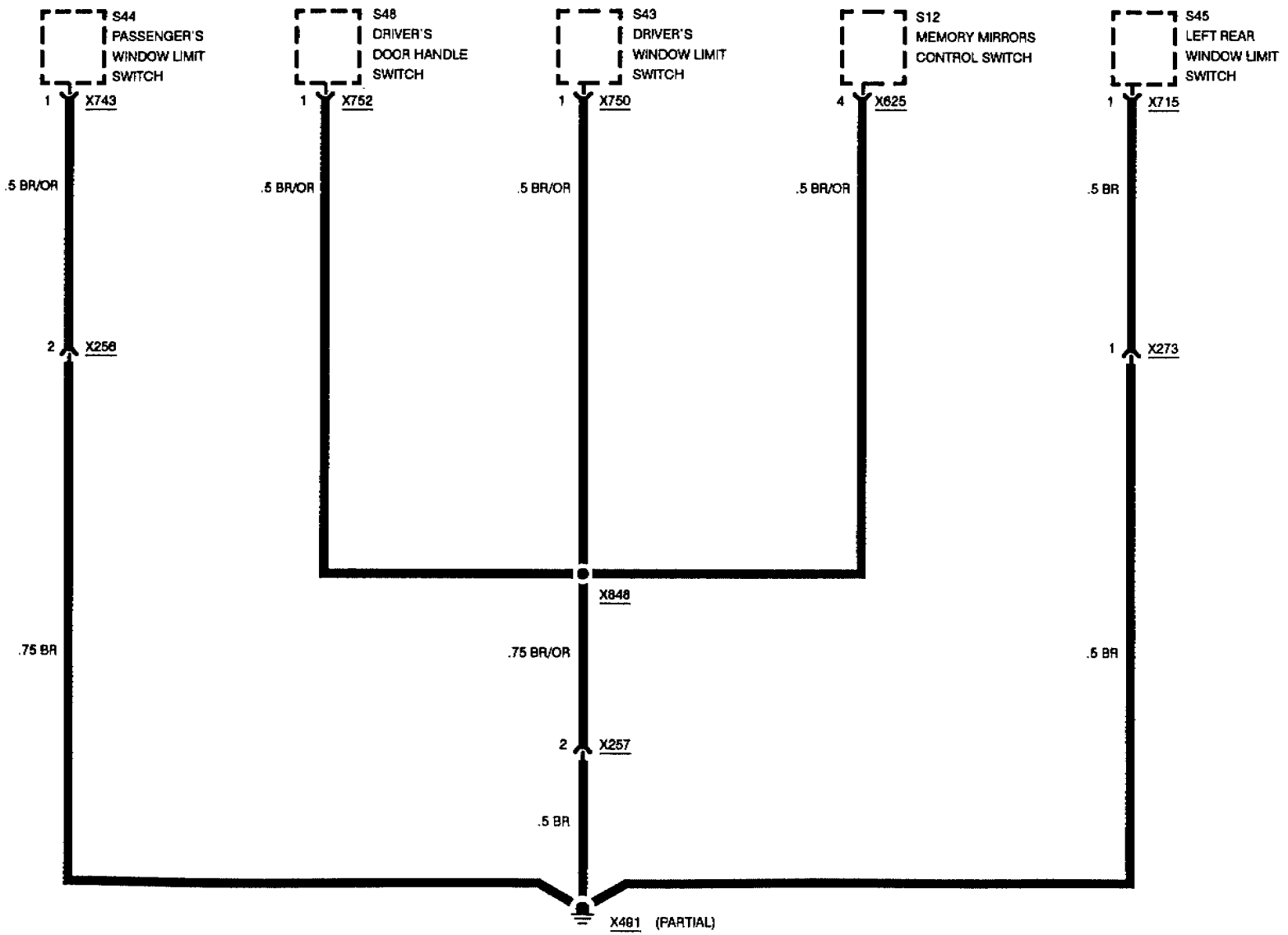
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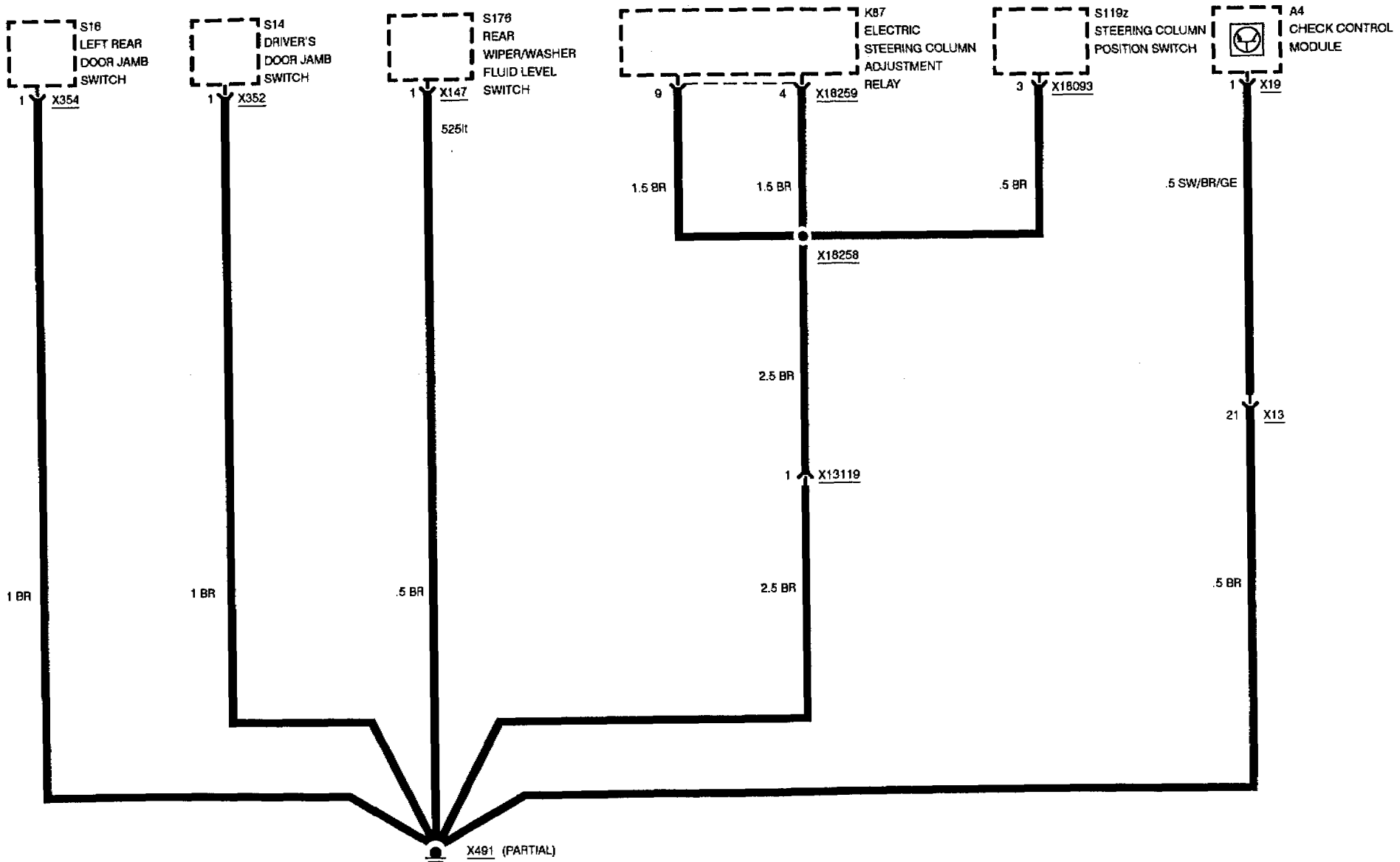
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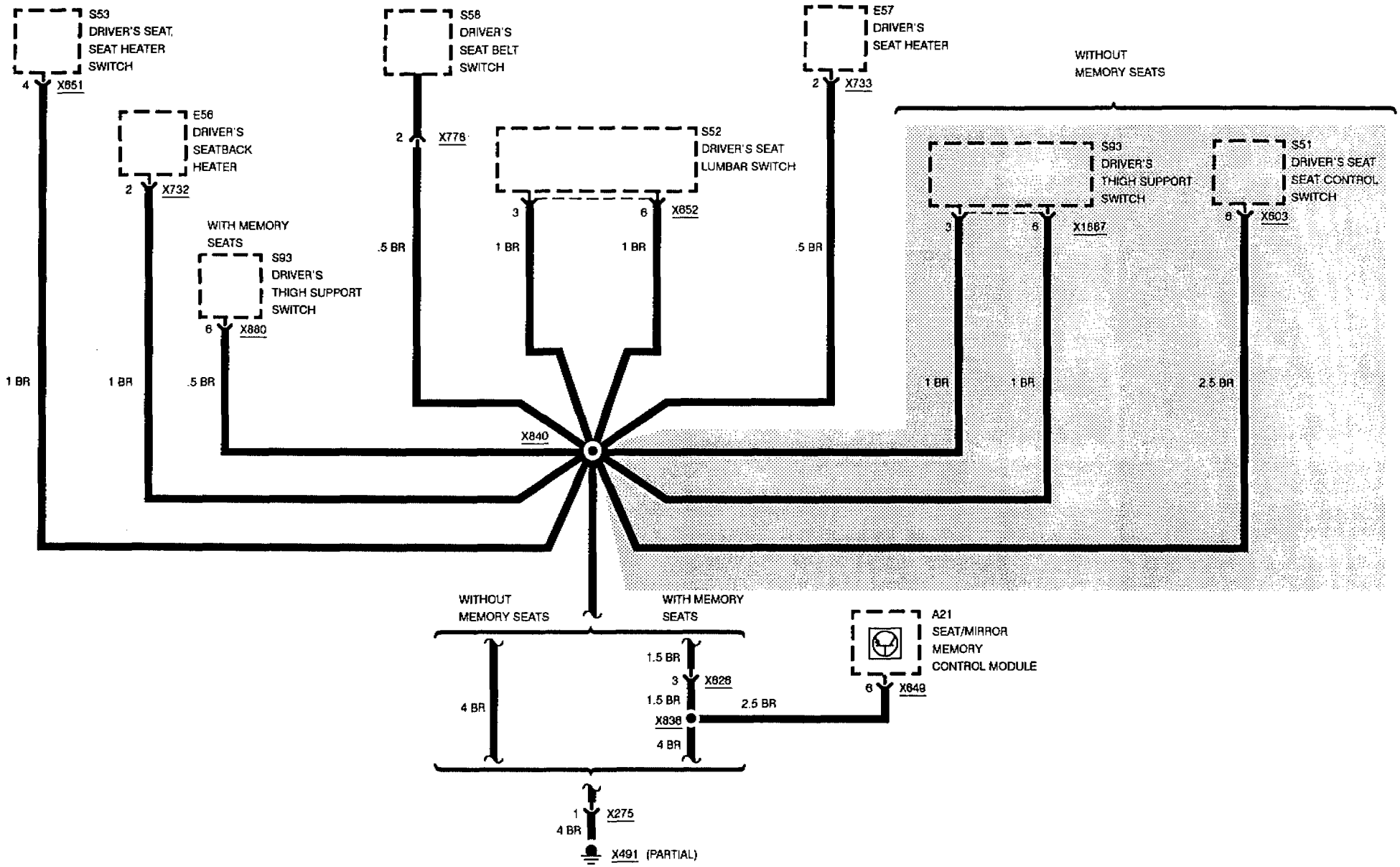
GROUND X491



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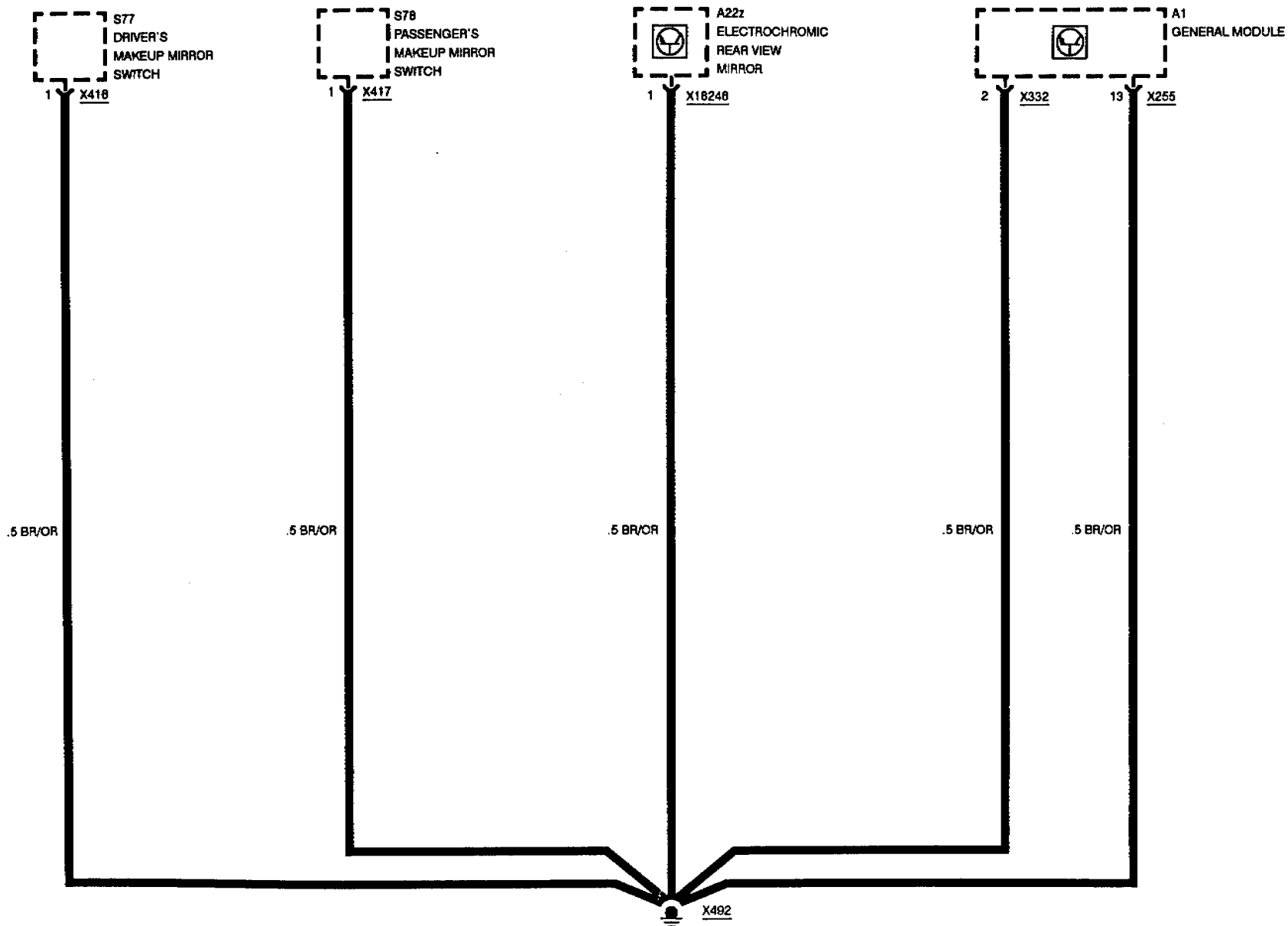
GROUND X491



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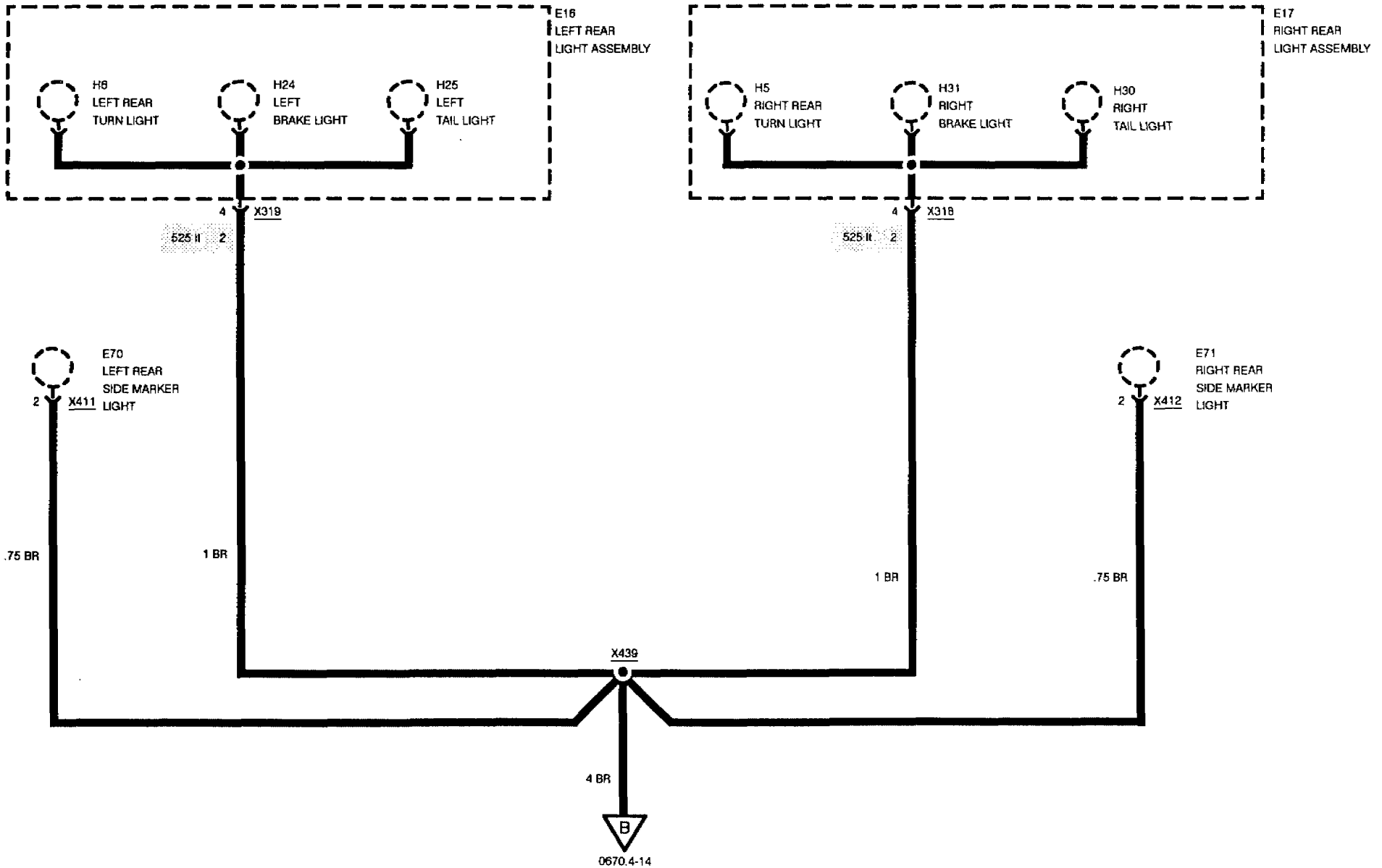
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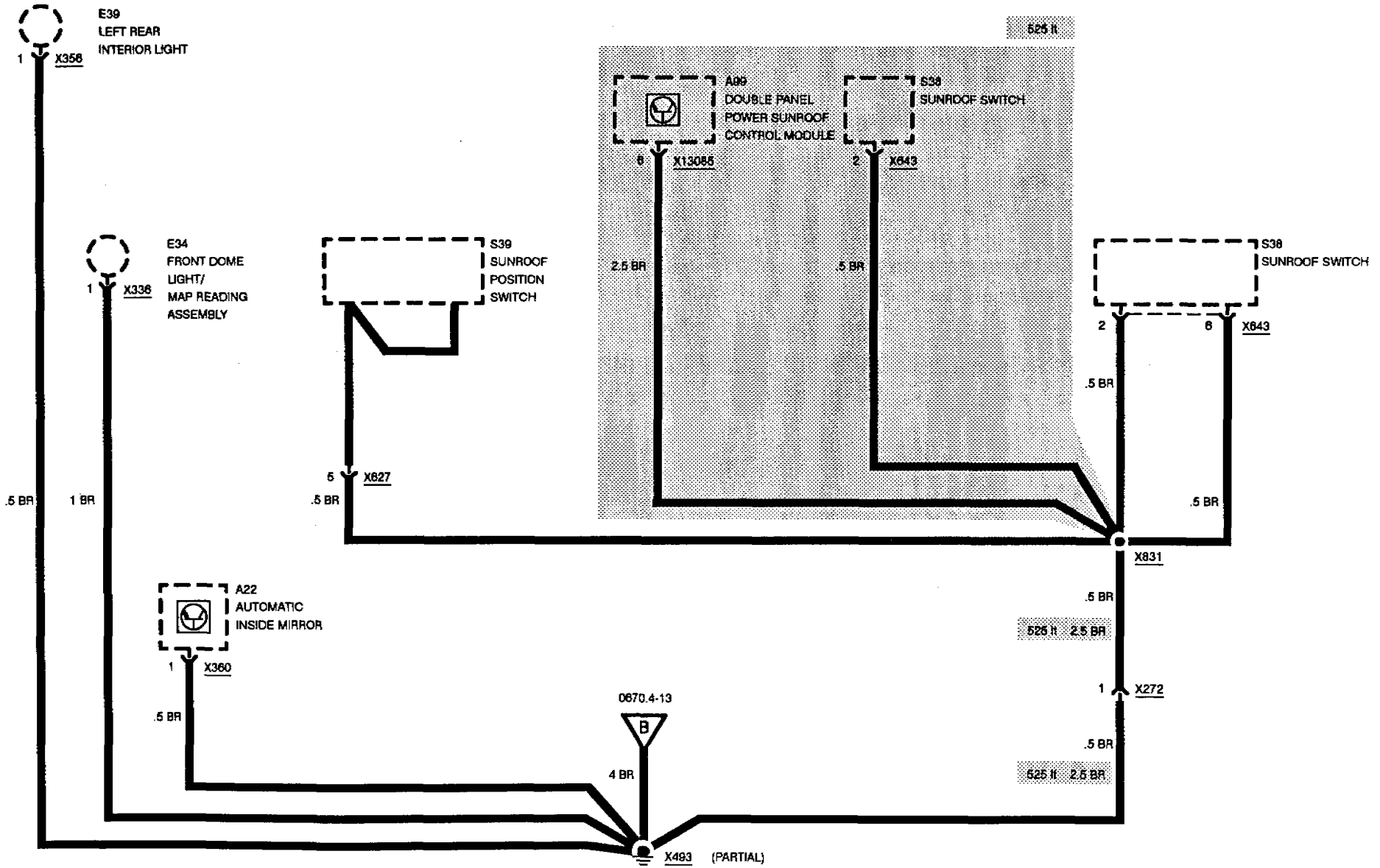
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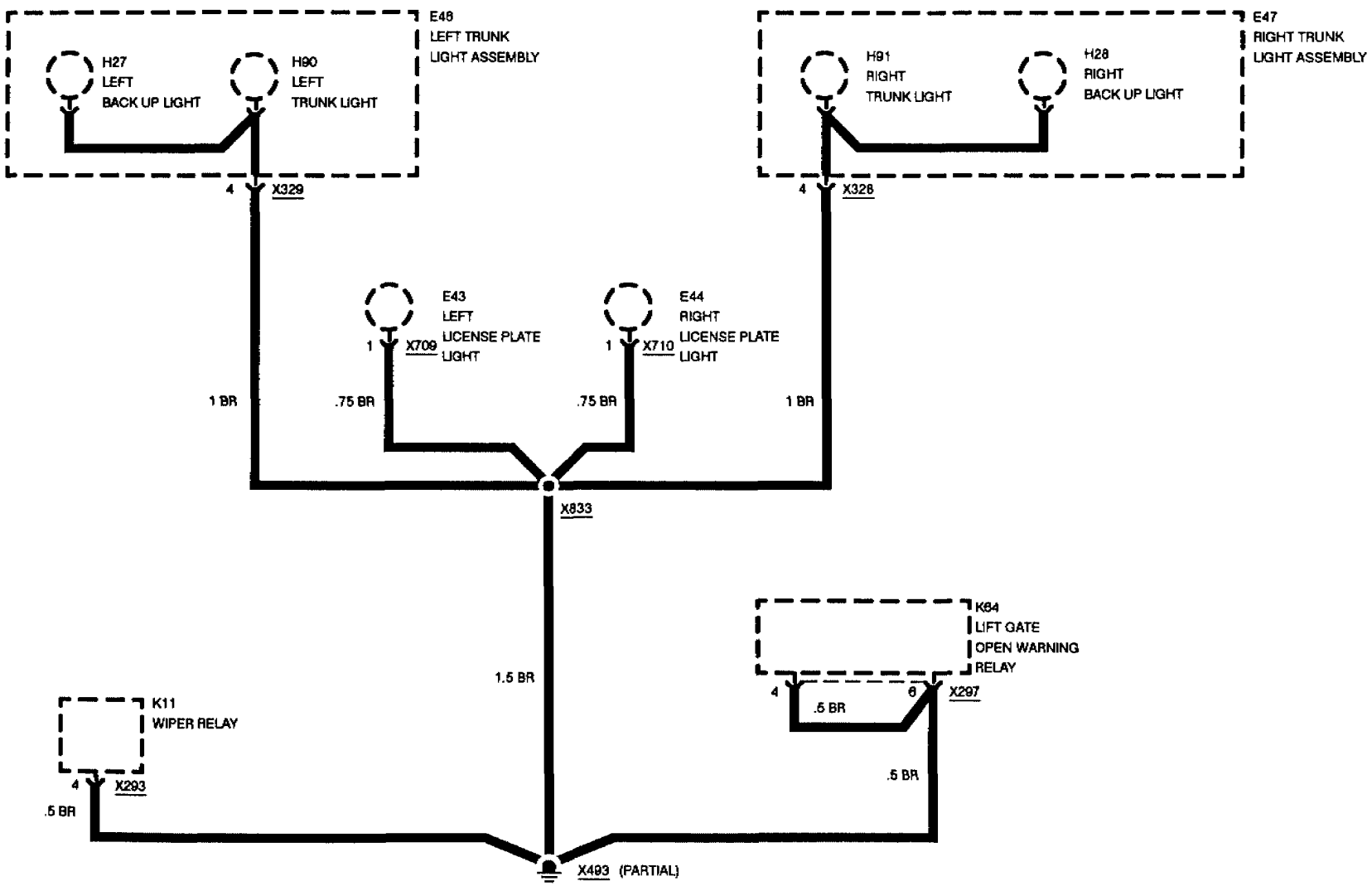
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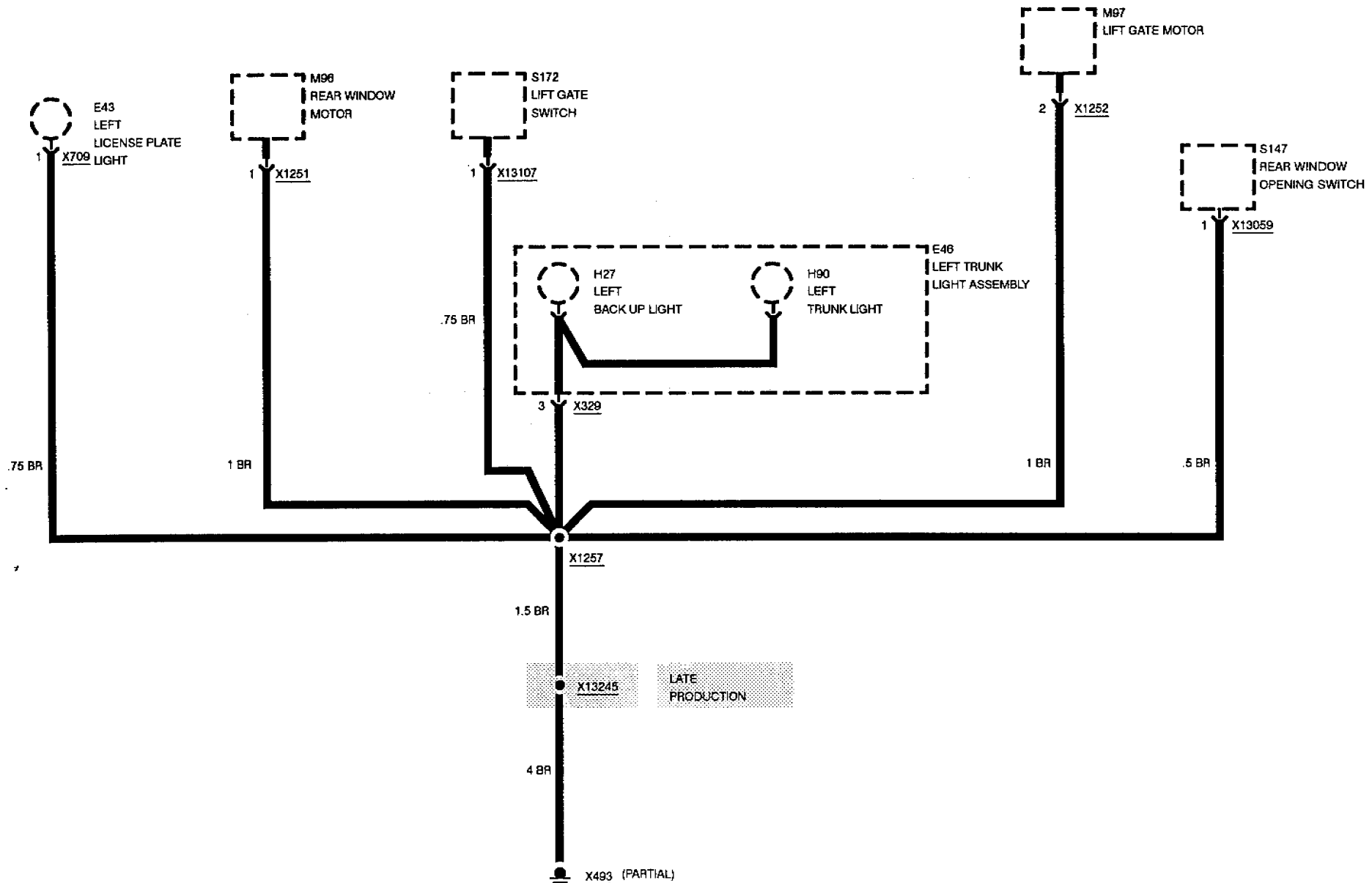


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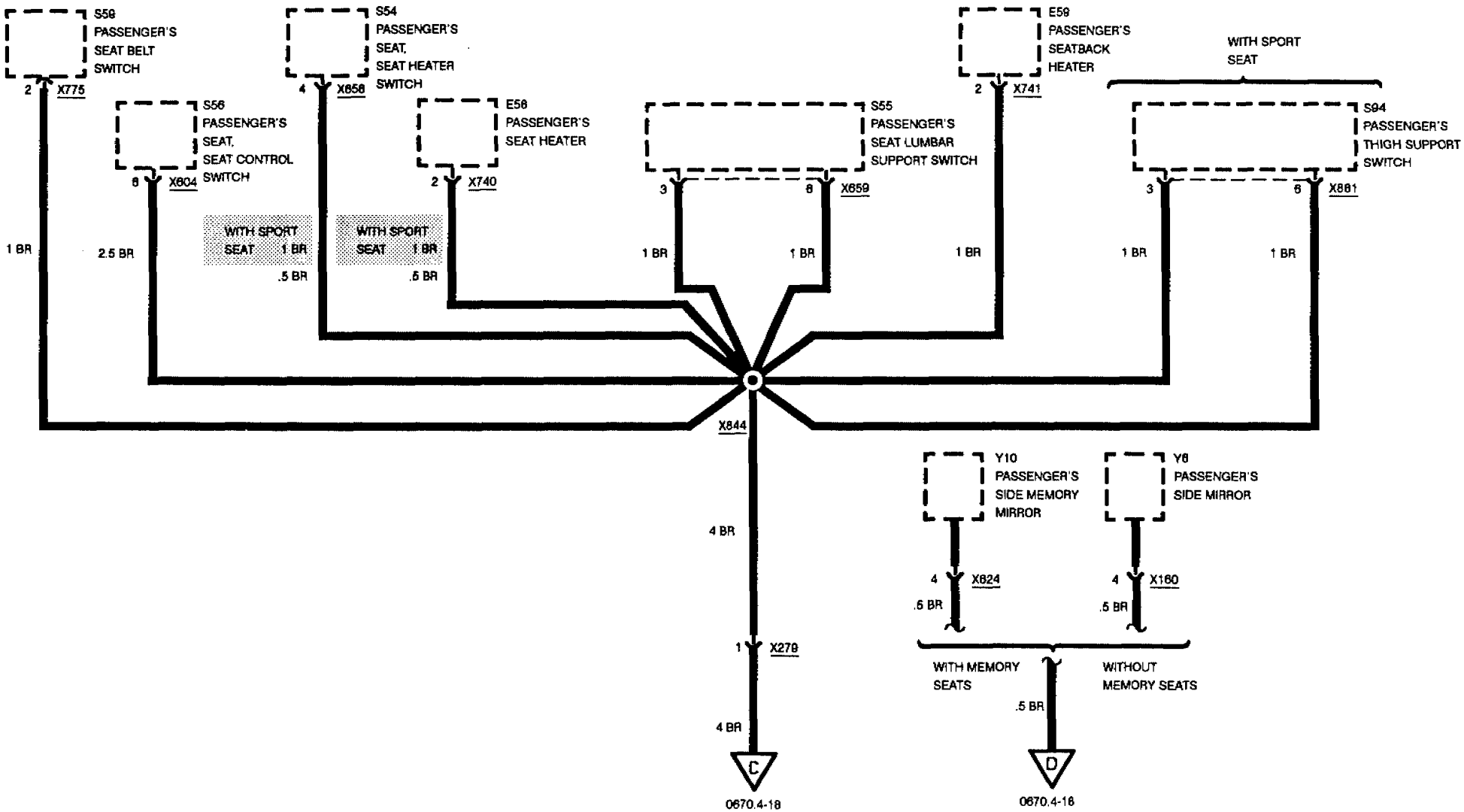
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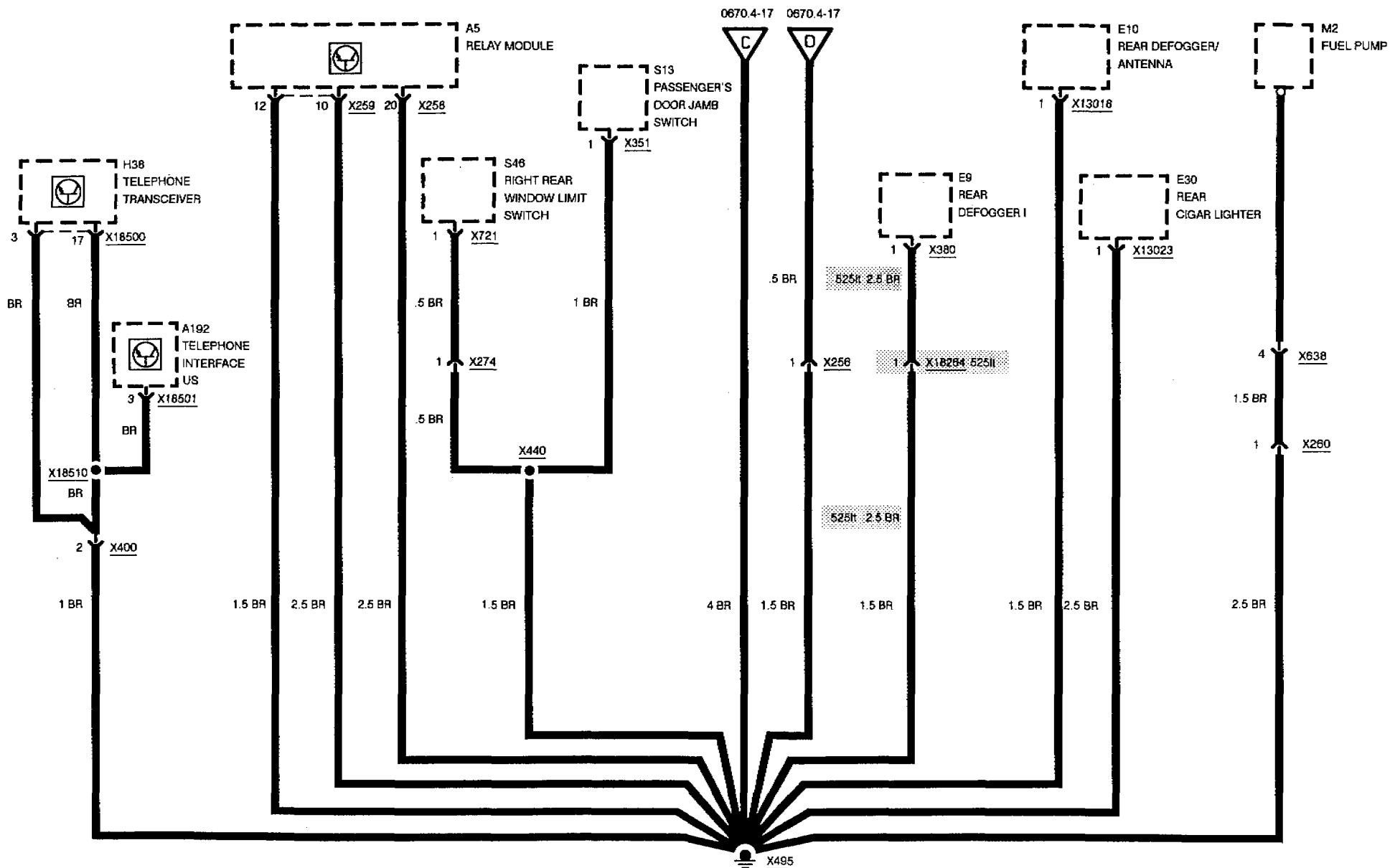
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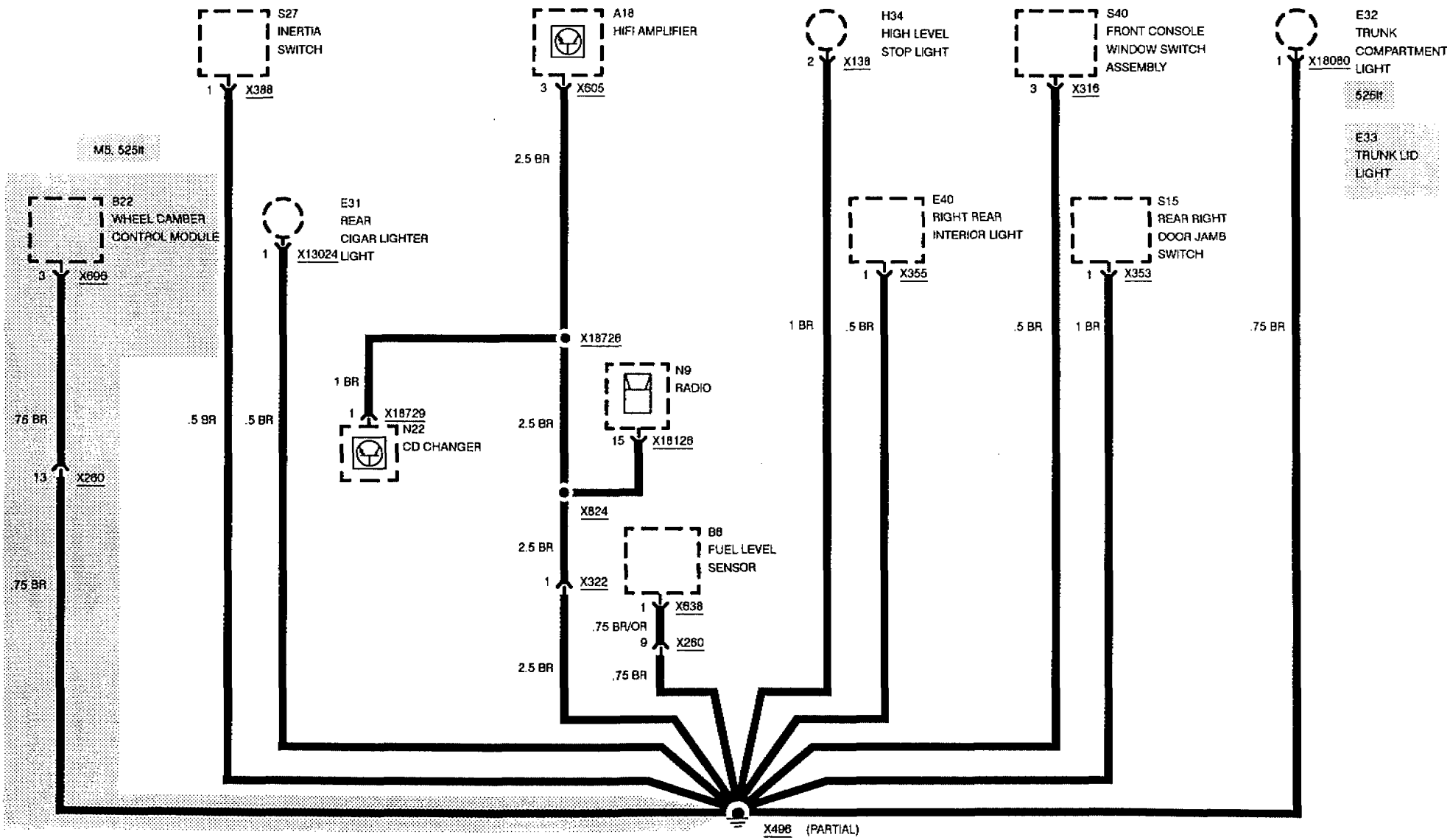
GROUND X495



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GROUND DISTRIBUTION

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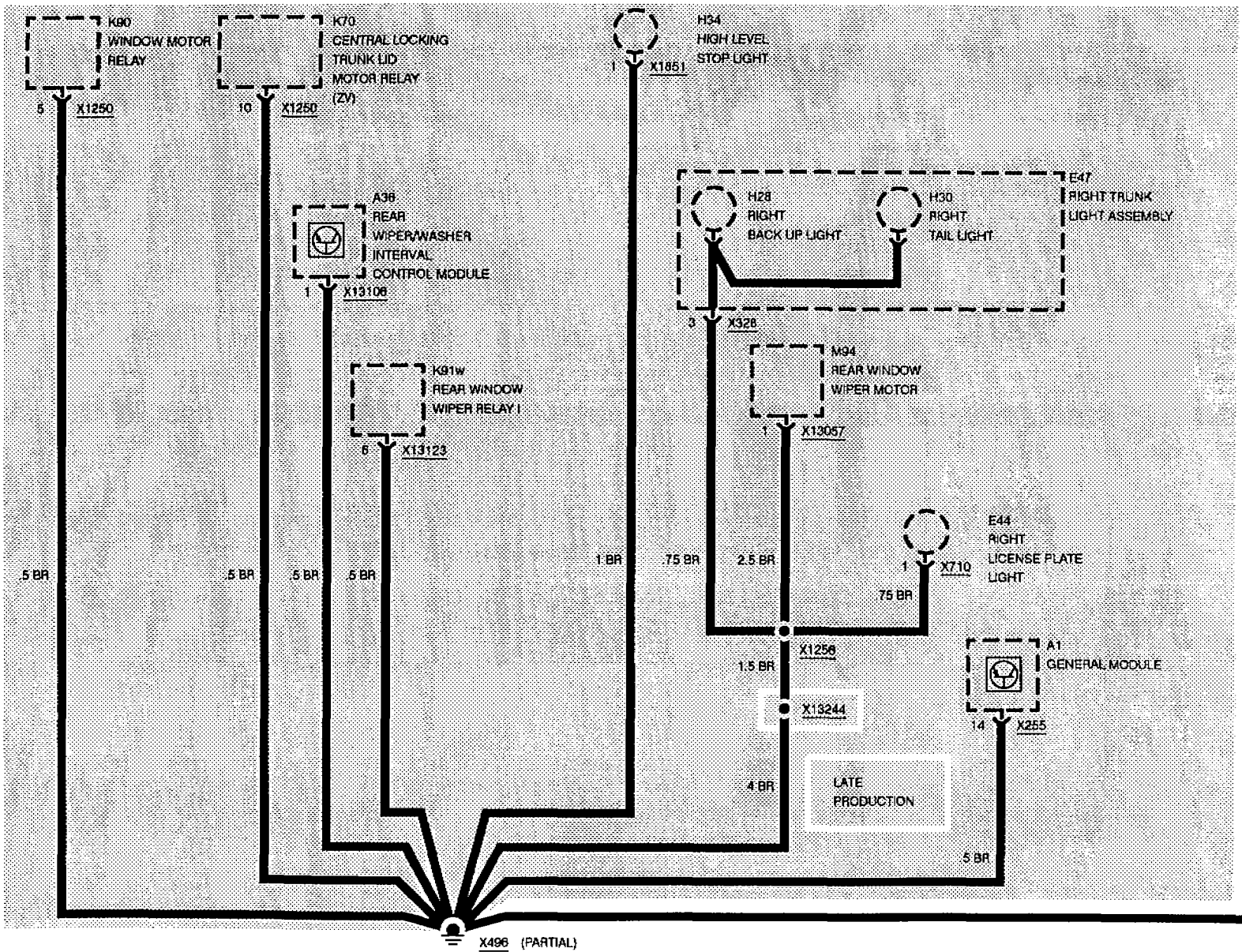


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GROUND X496

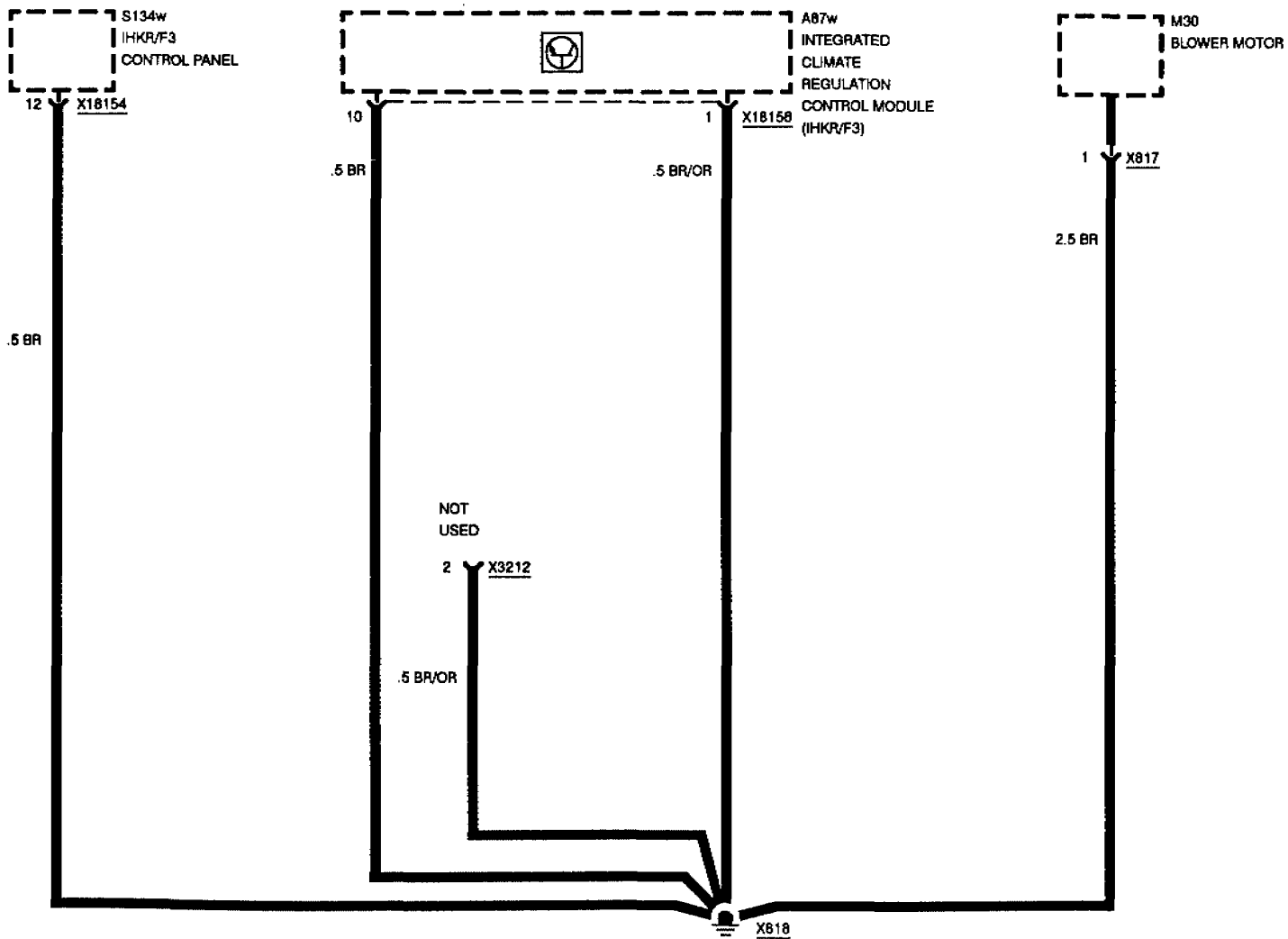
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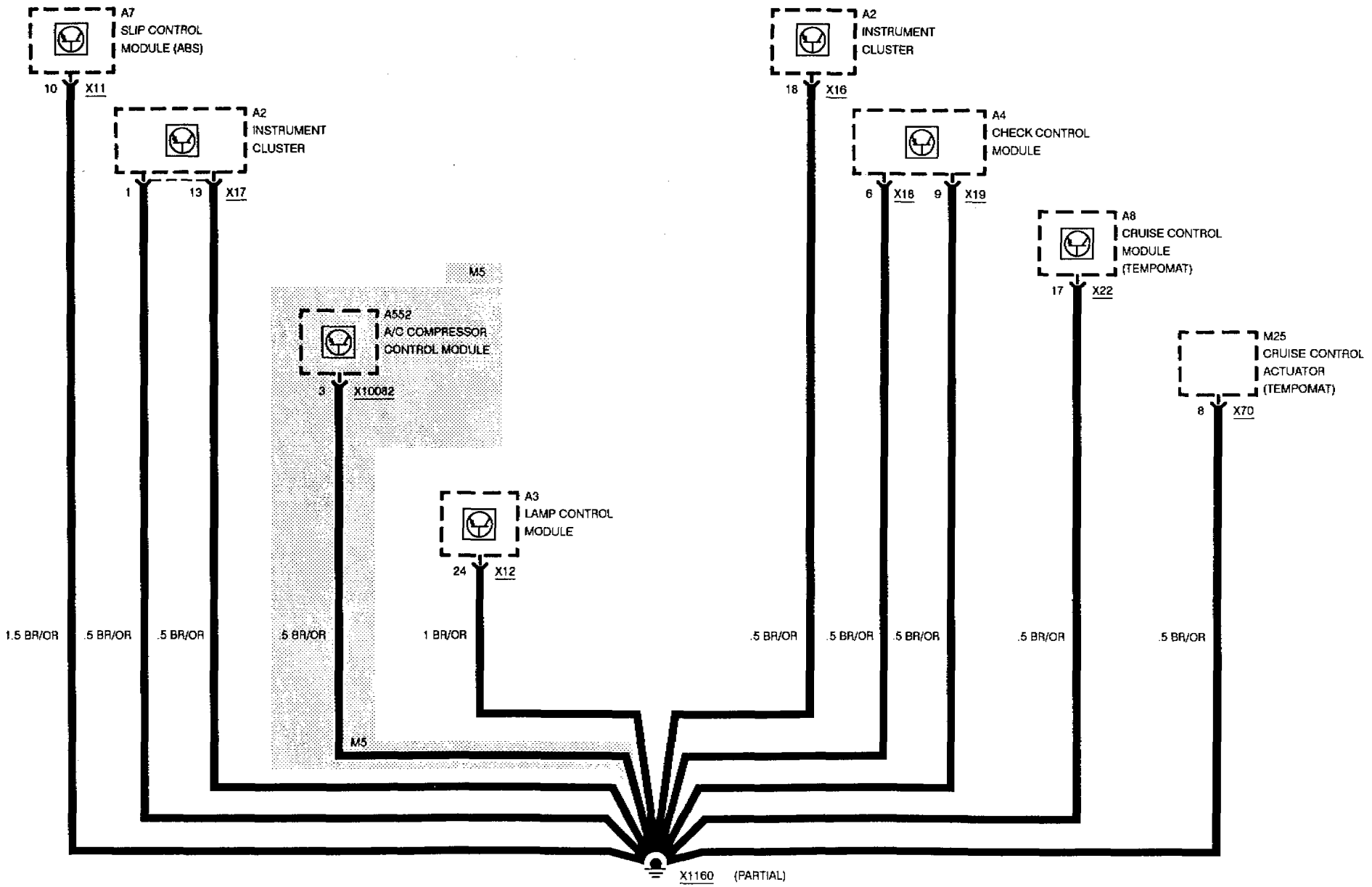
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GROUND X1160

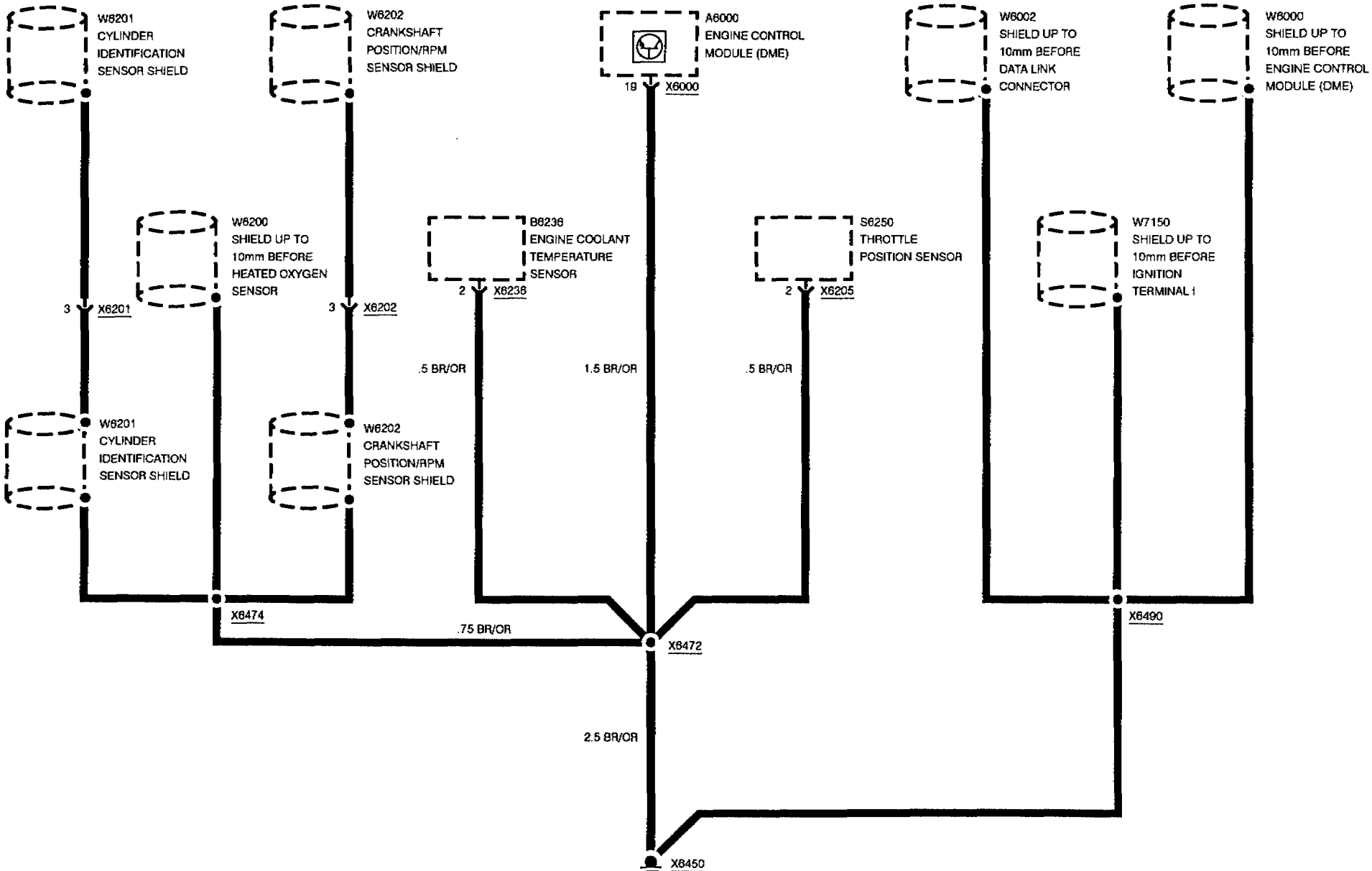


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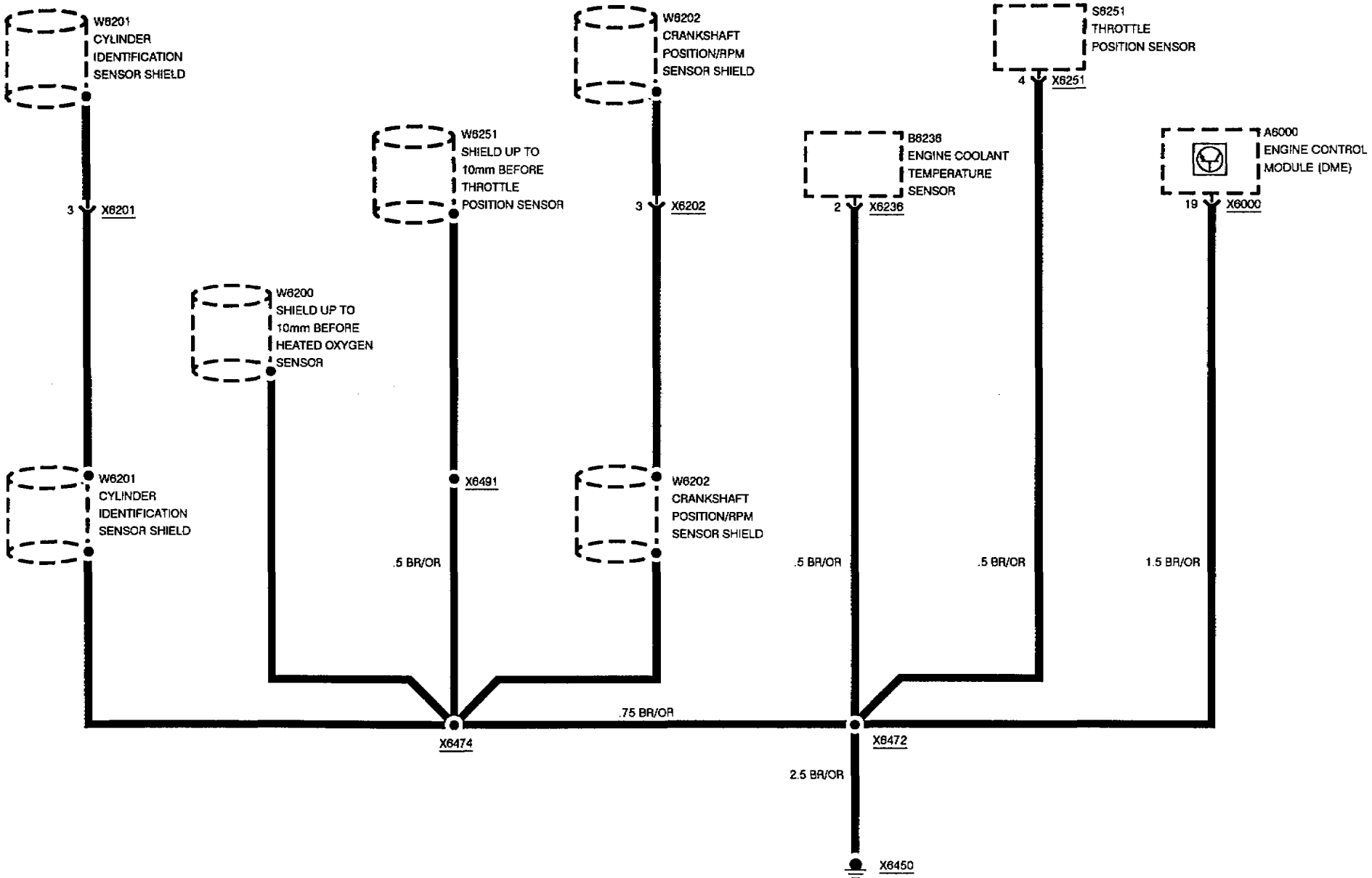
GROUND X6450 WITHOUT EML



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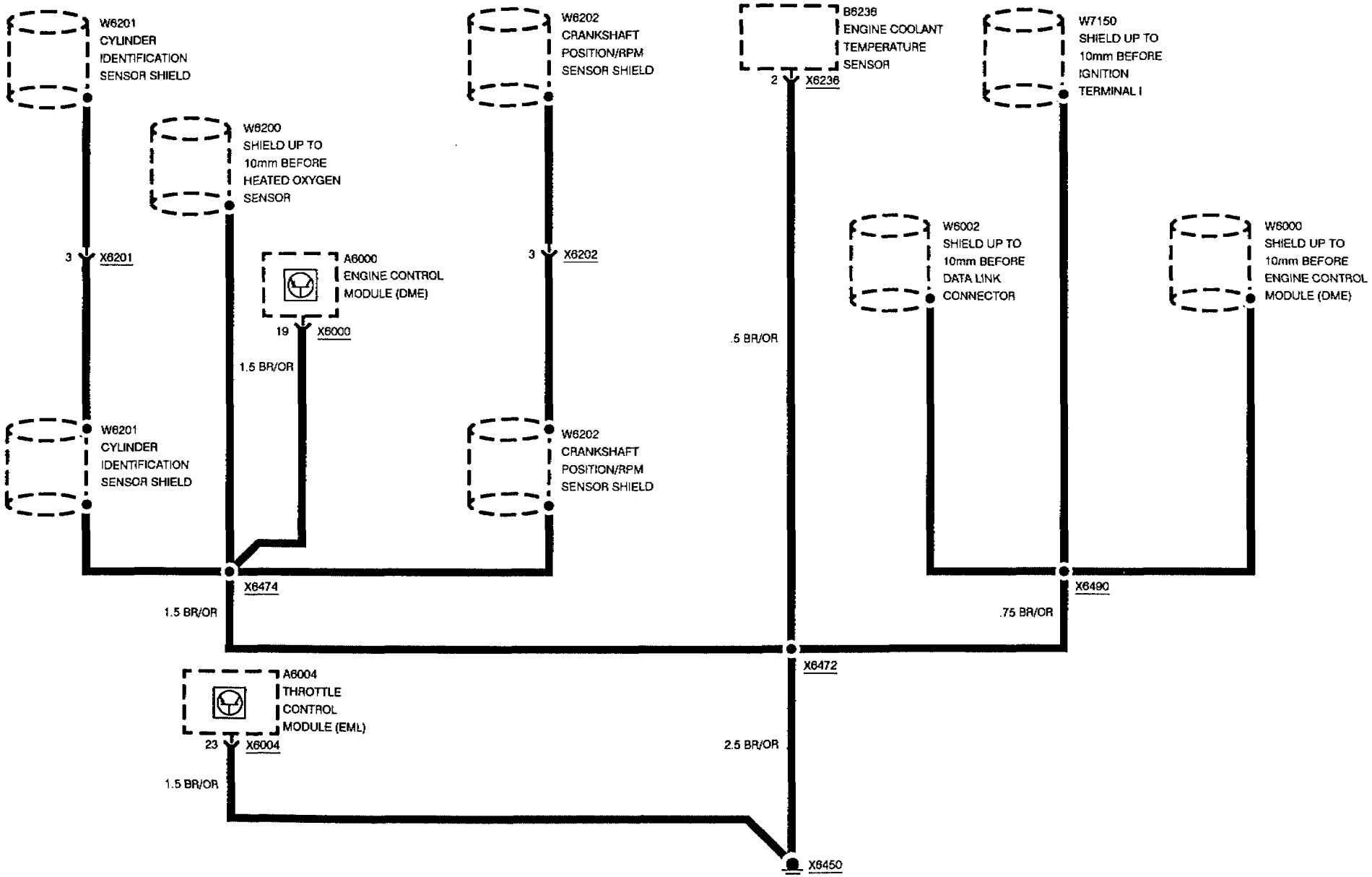
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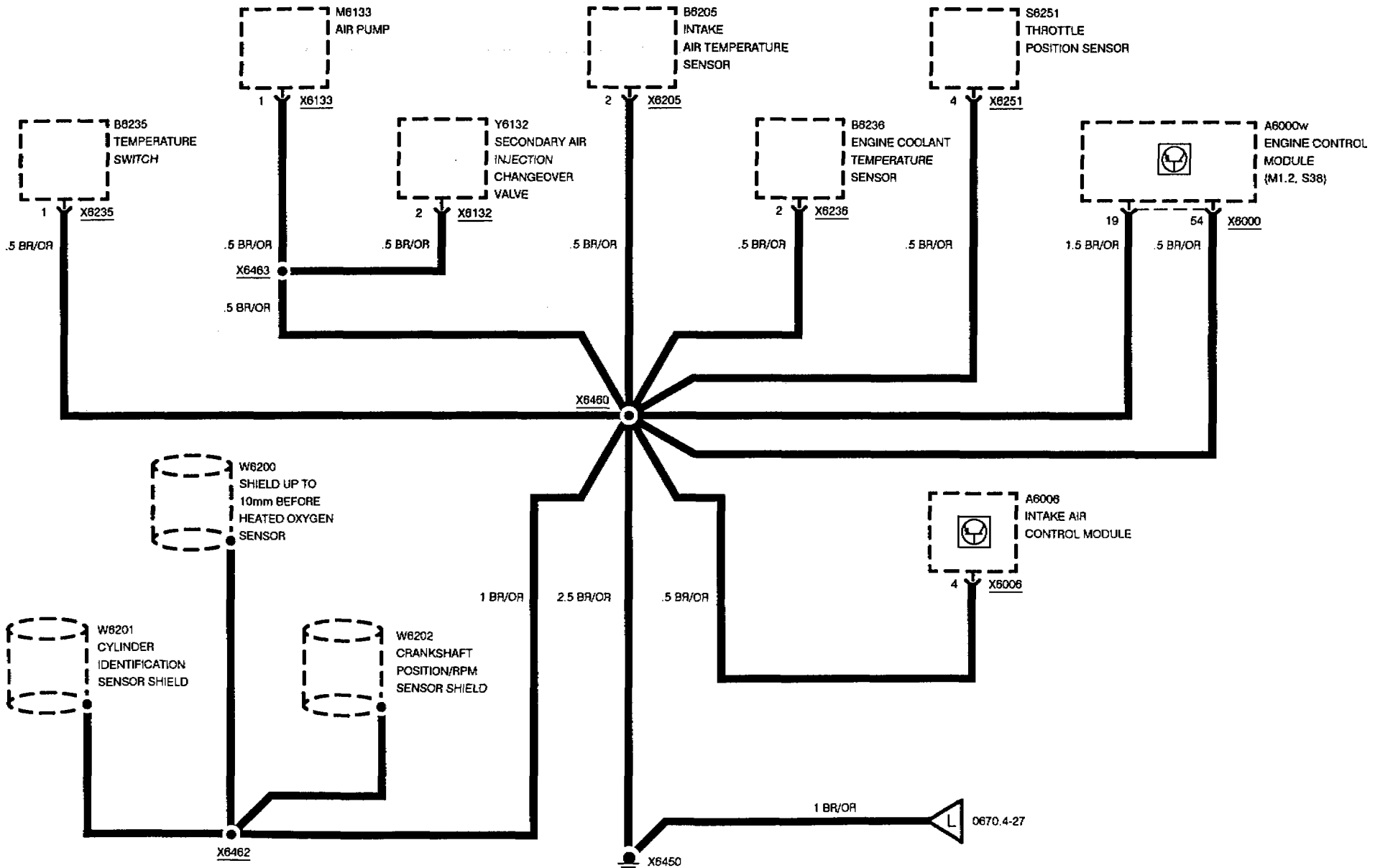
GROUND X6450 WITH EML



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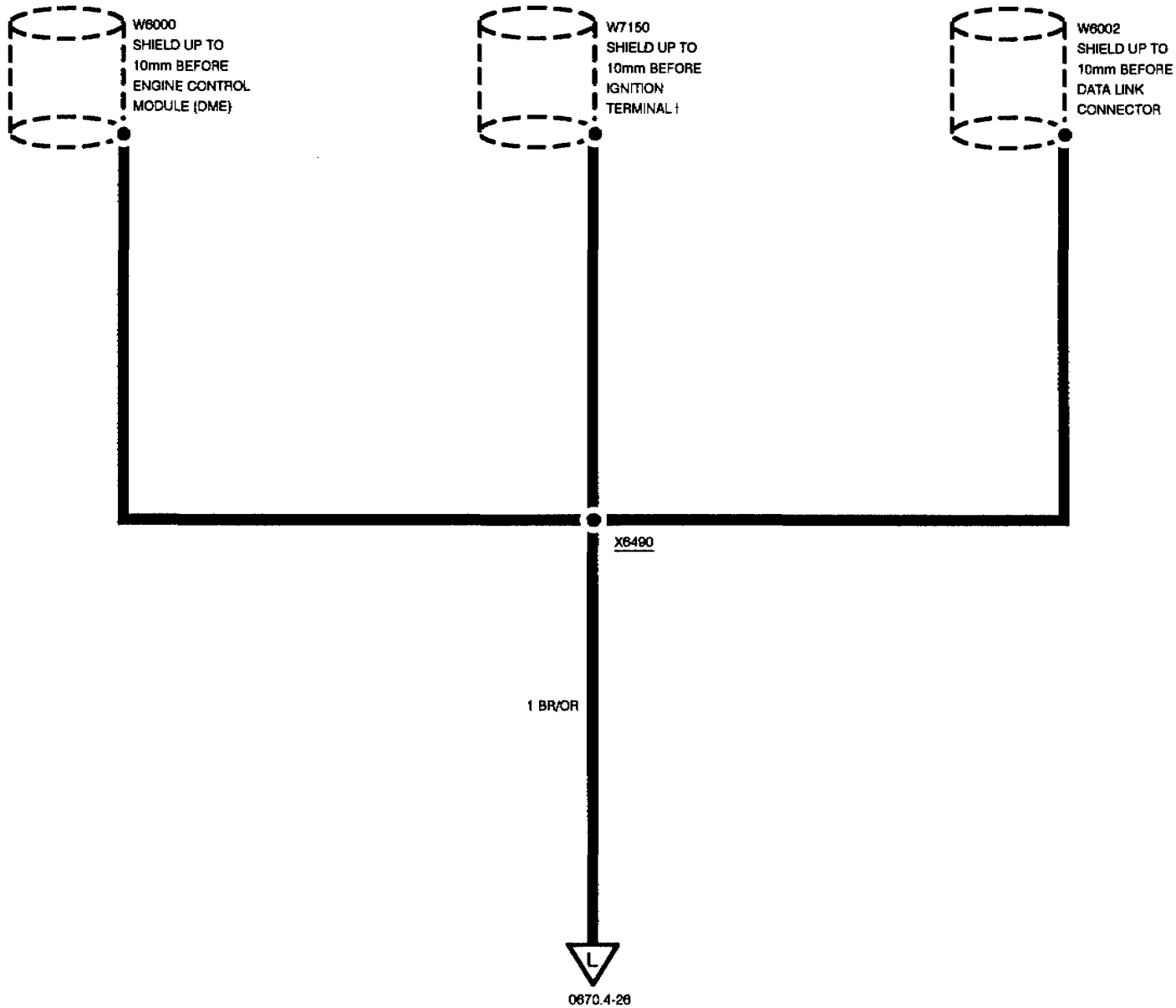
GROUND X6450



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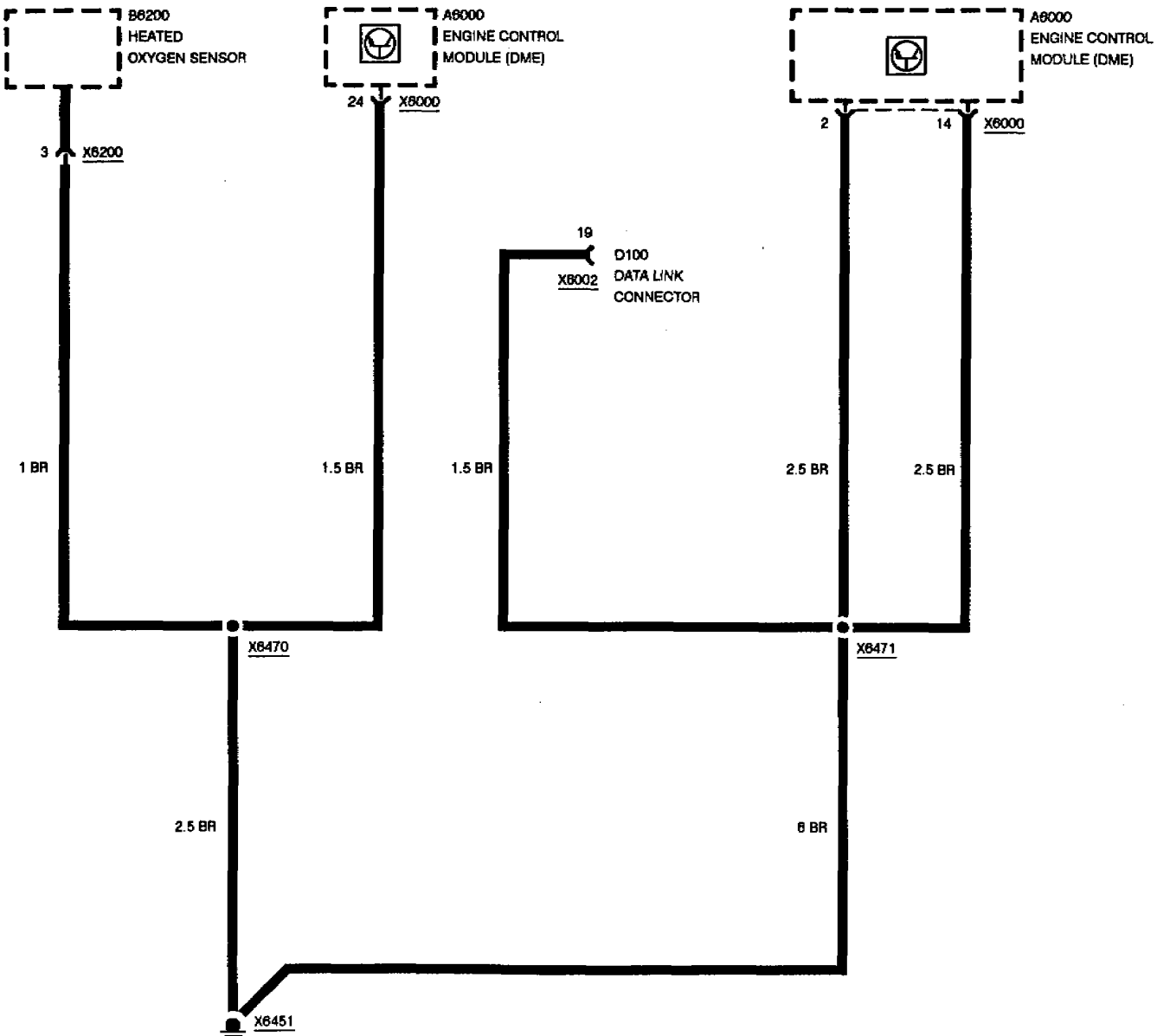
GROUND X6450



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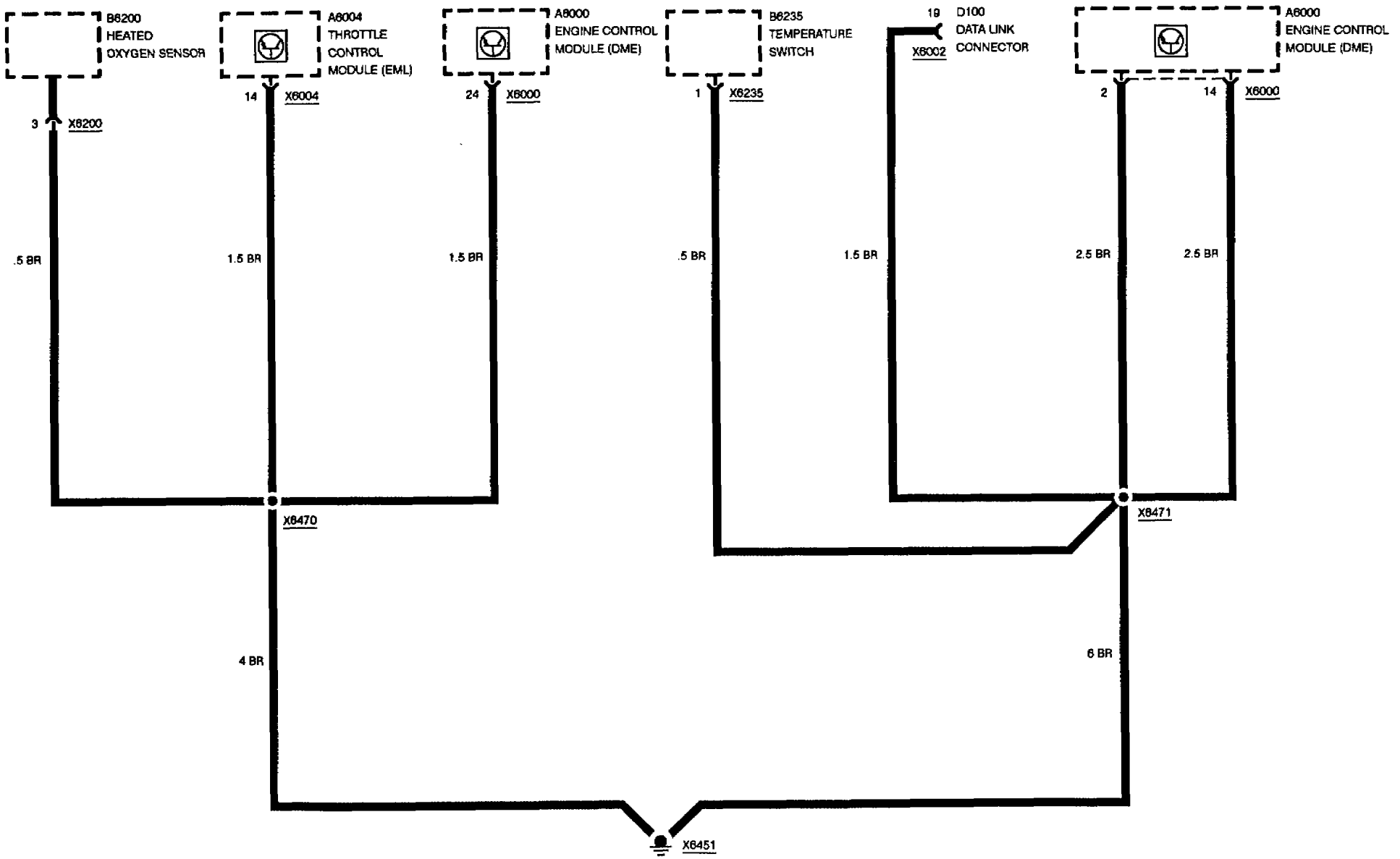
GROUND X6451 WITHOUT EML



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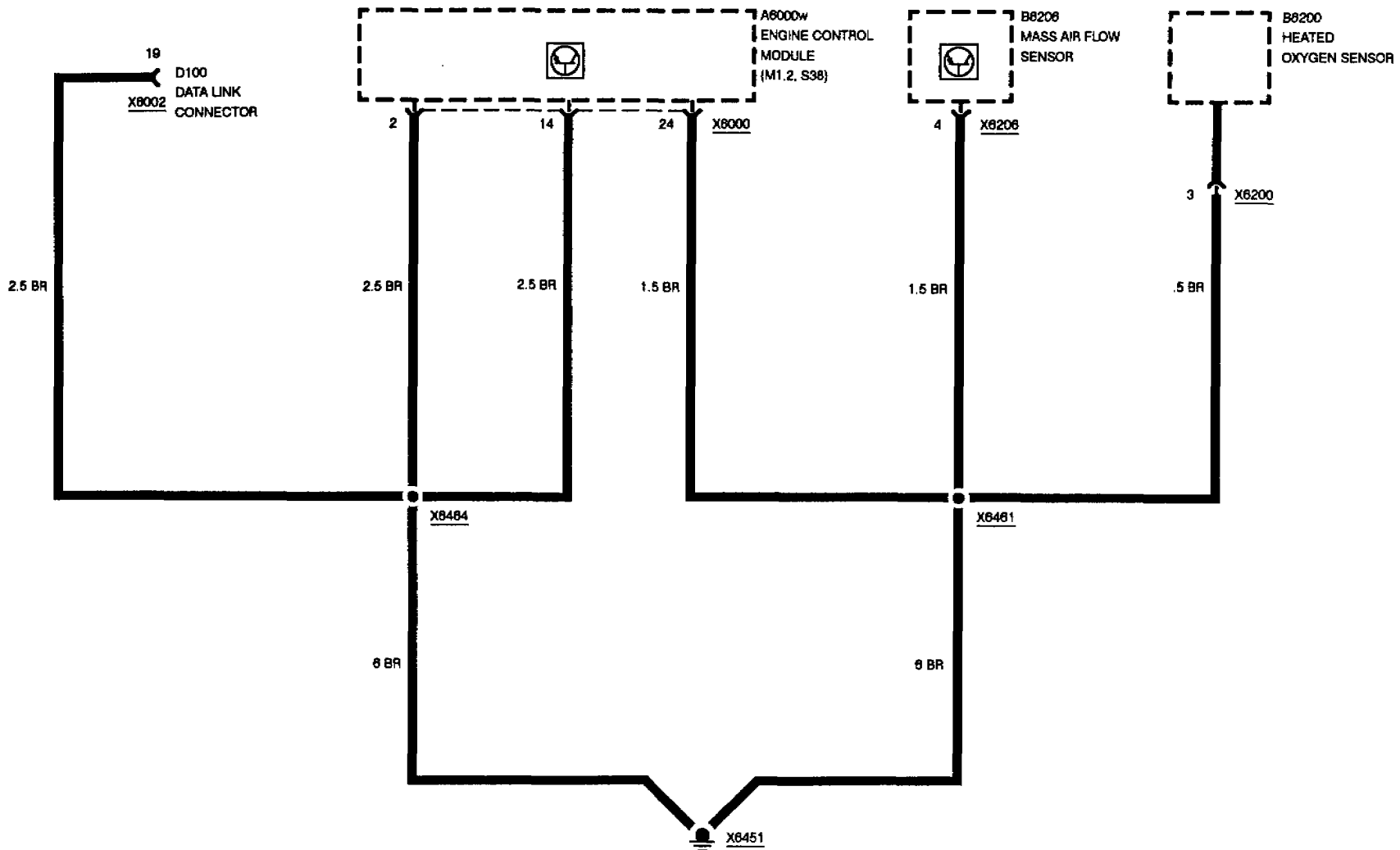
GROUND X6451 WITH EML



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GROUND X6451

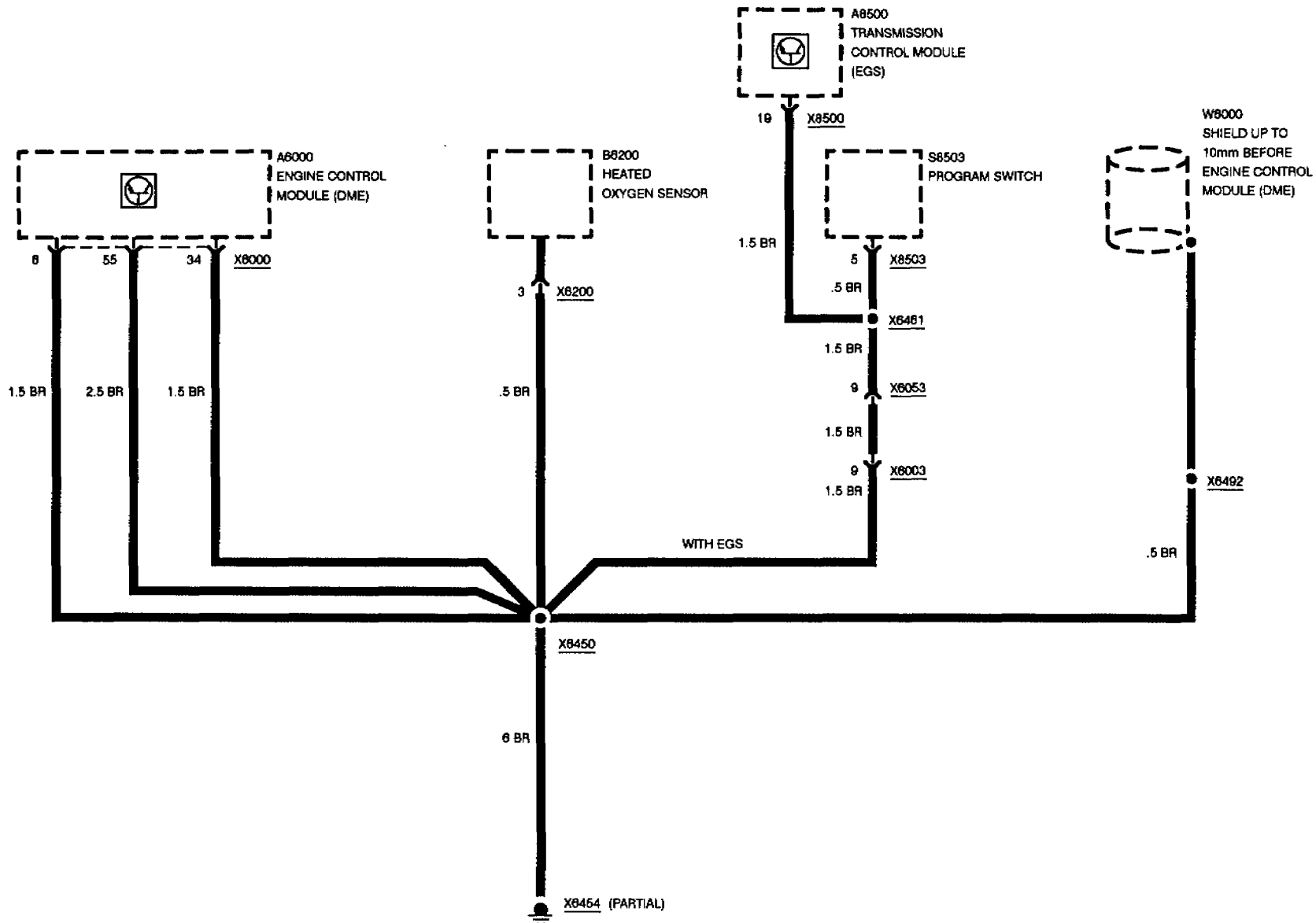


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GROUND DISTRIBUTION

GROUND X6454

525i

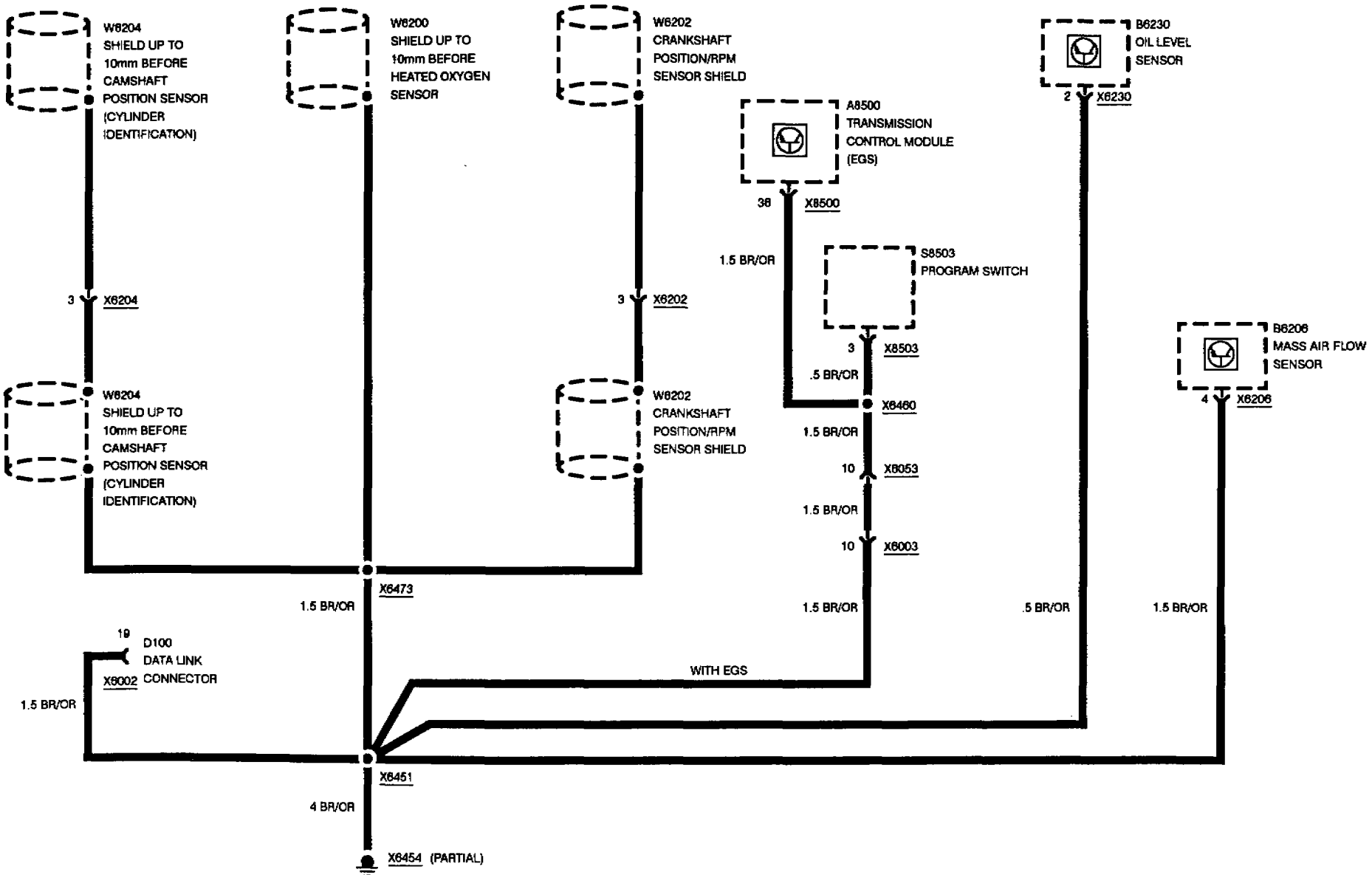


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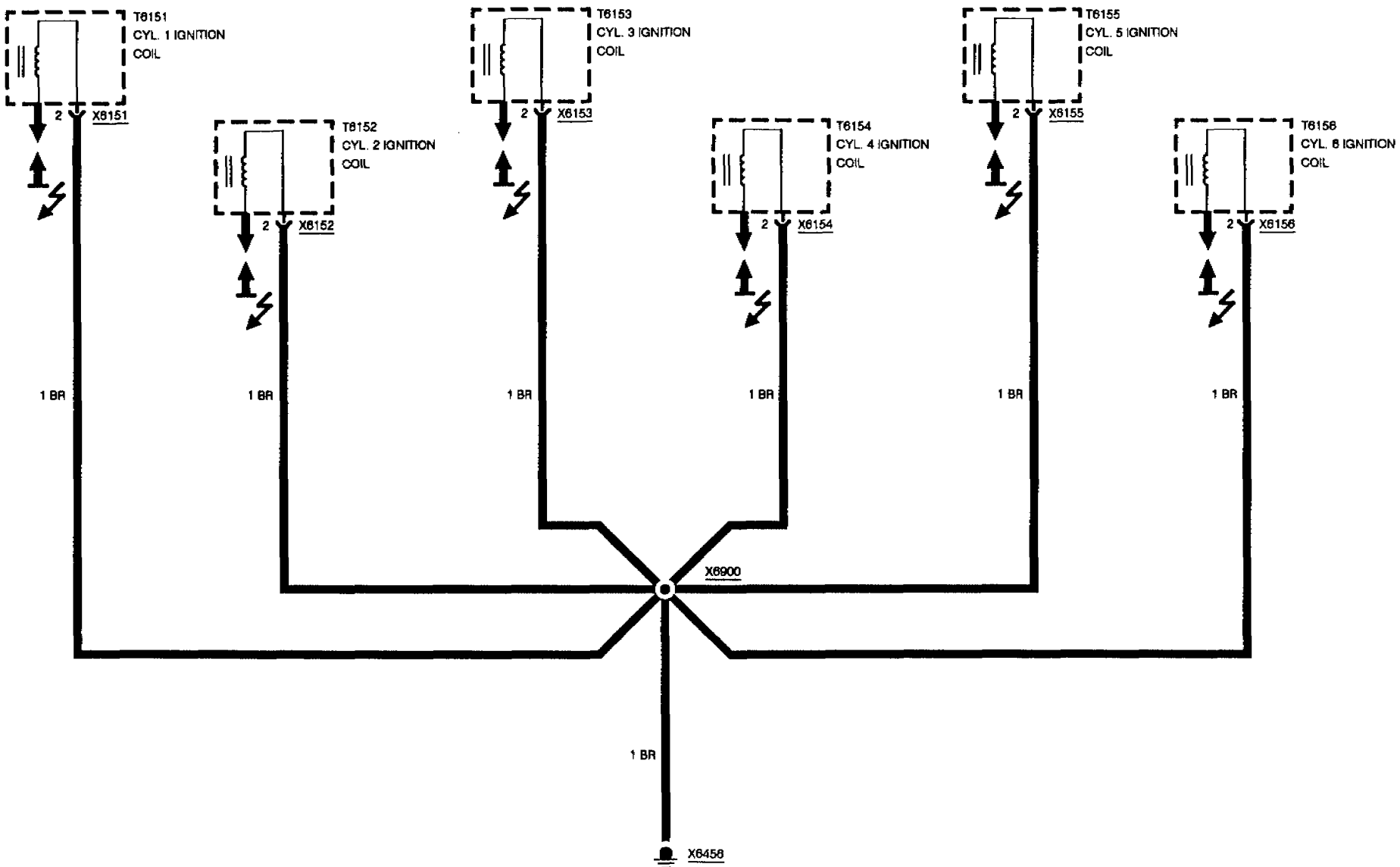
525i

GROUND X6454

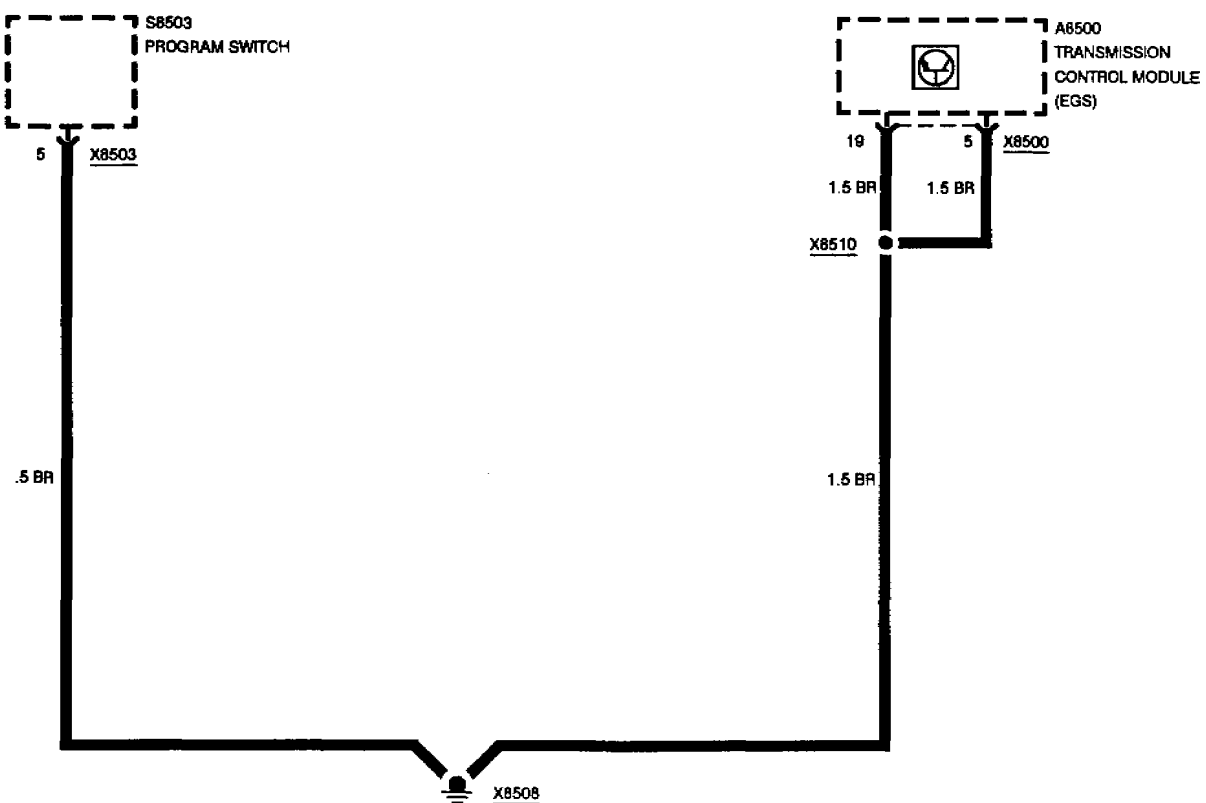


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GROUND X6456



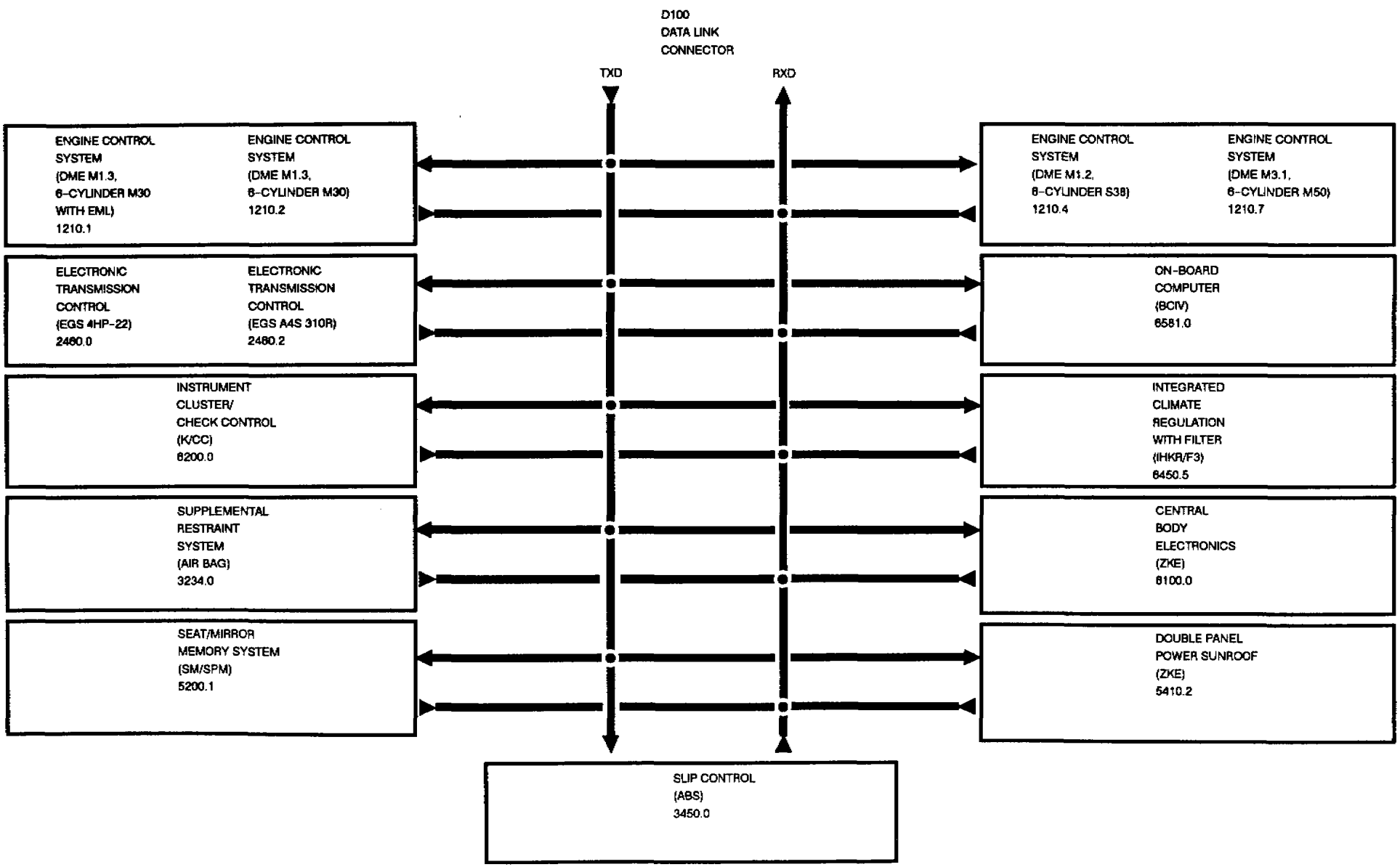
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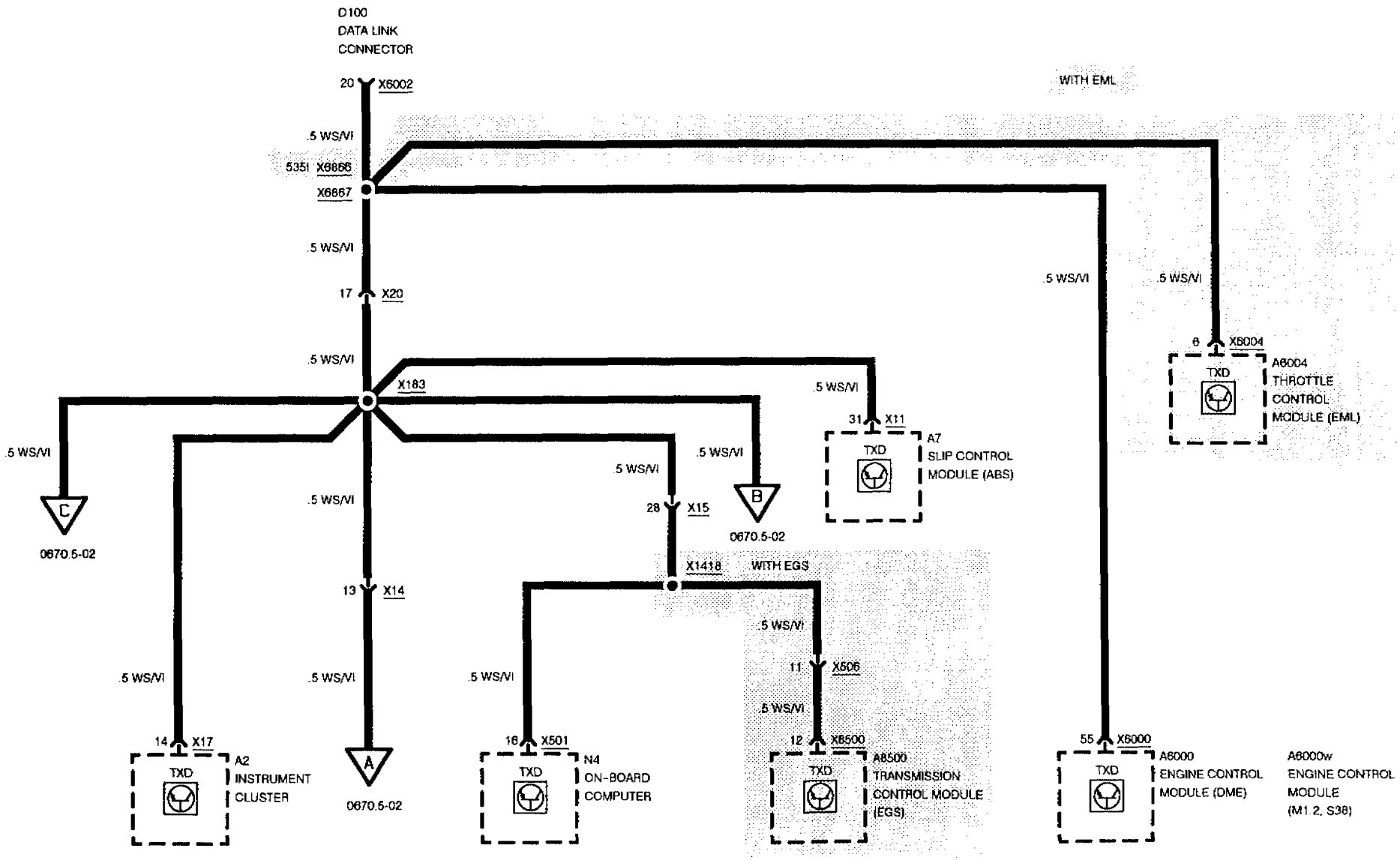
DATA LINK
BLOCK DIAGRAM



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DATA LINK

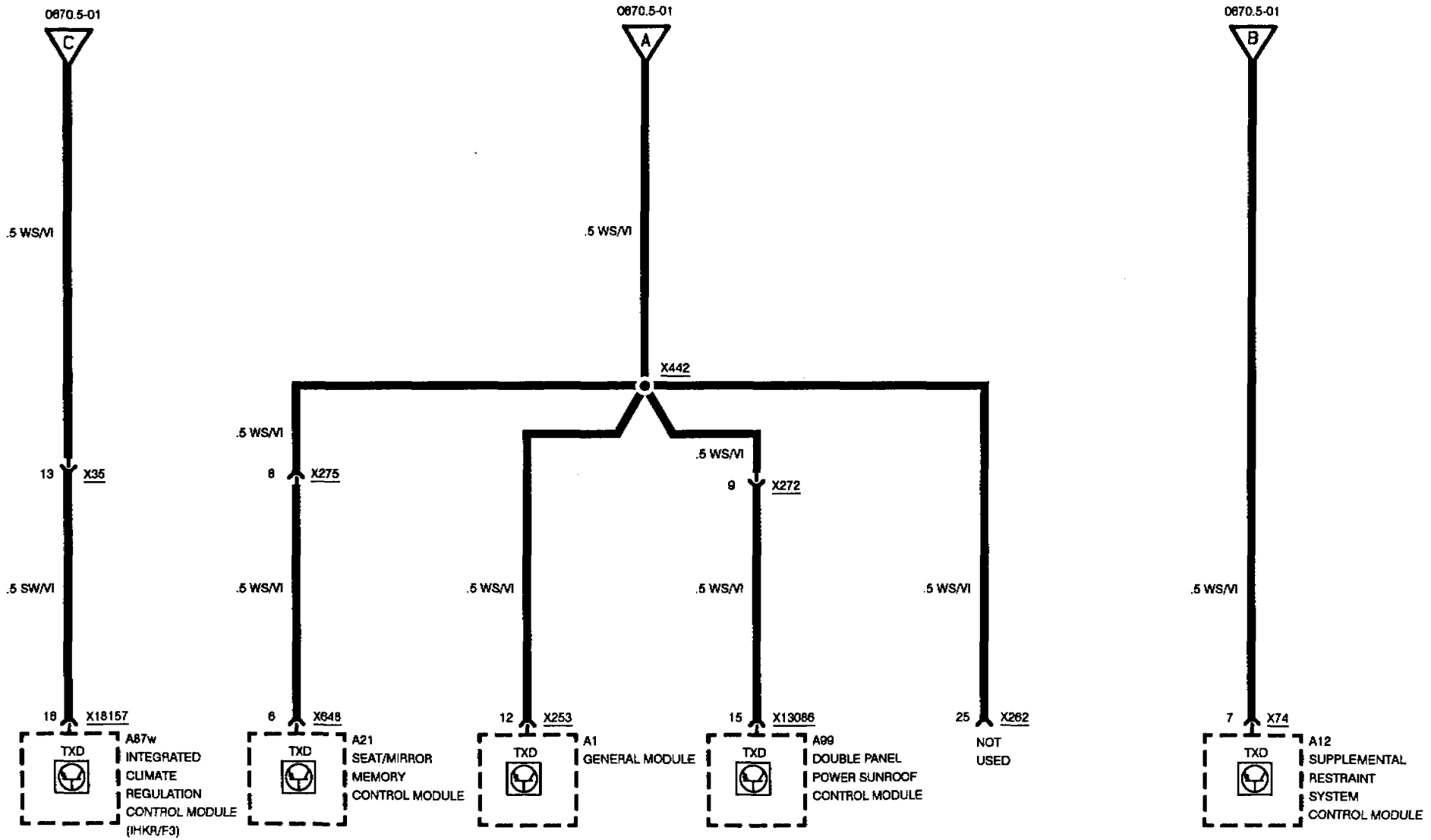
TXD, PIN 20



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DATA LINK

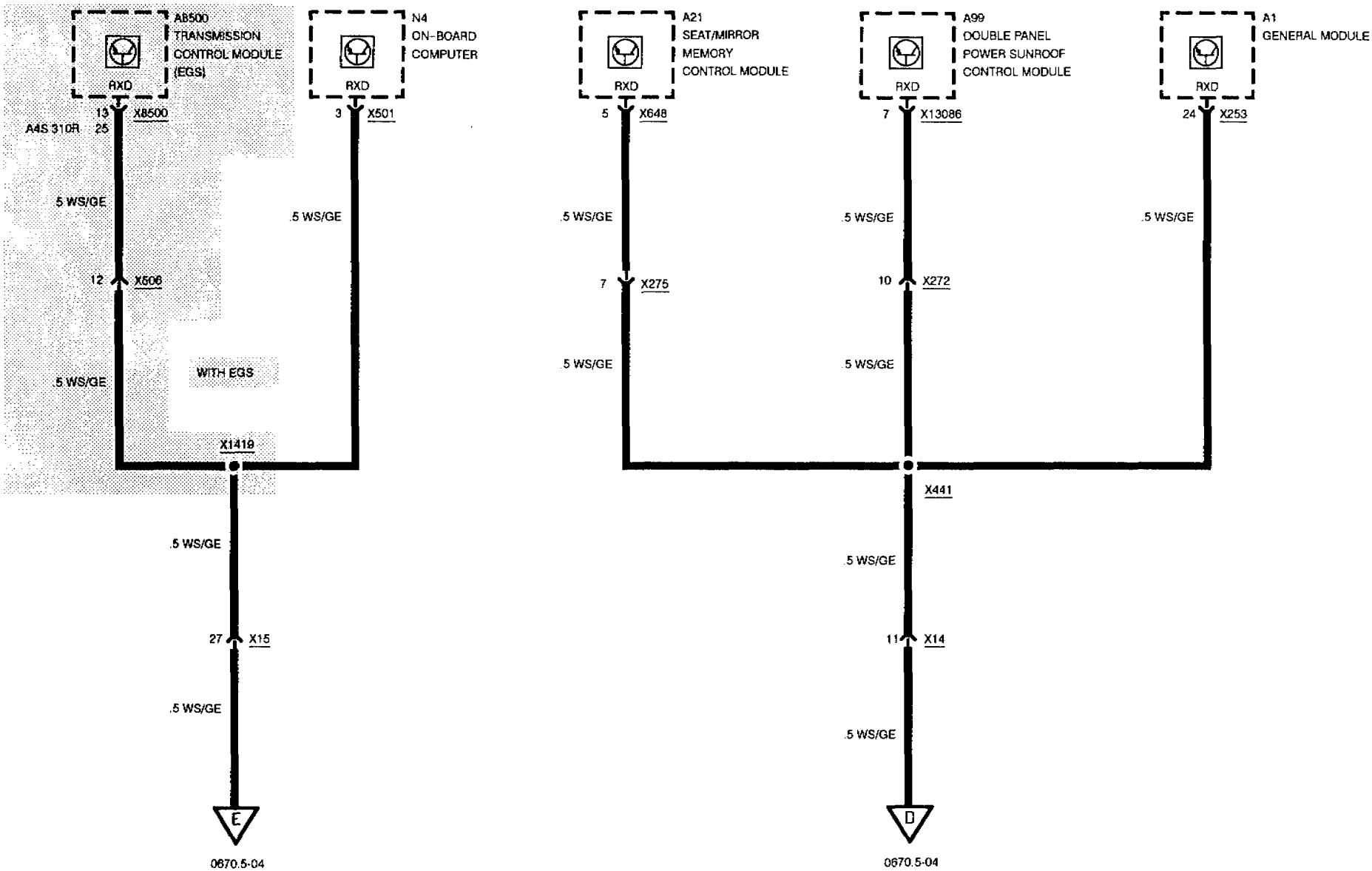
TXD, PIN 20



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DATA LINK

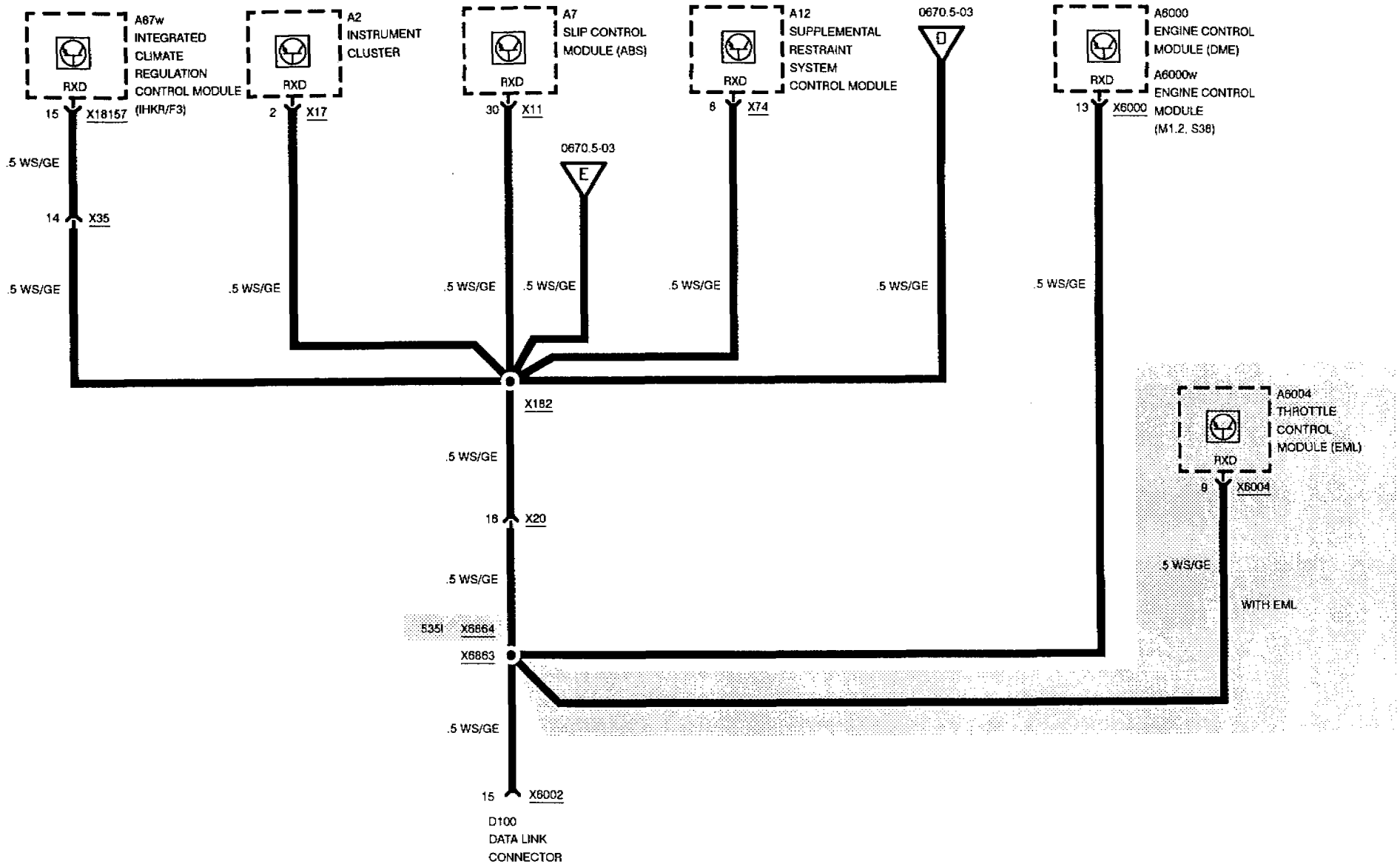
RXD, PIN 15



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DATA LINK

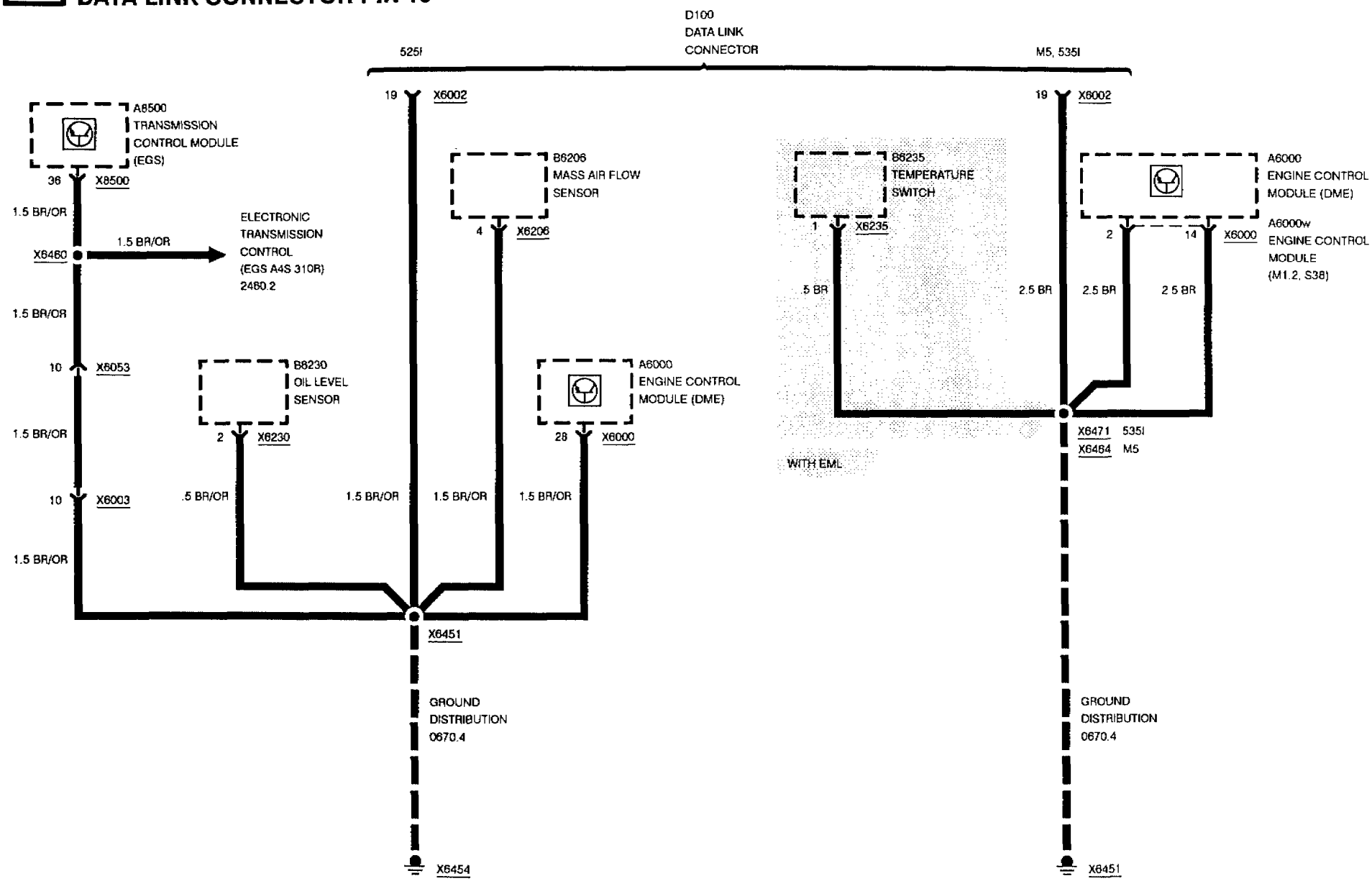
RXD, PIN 15



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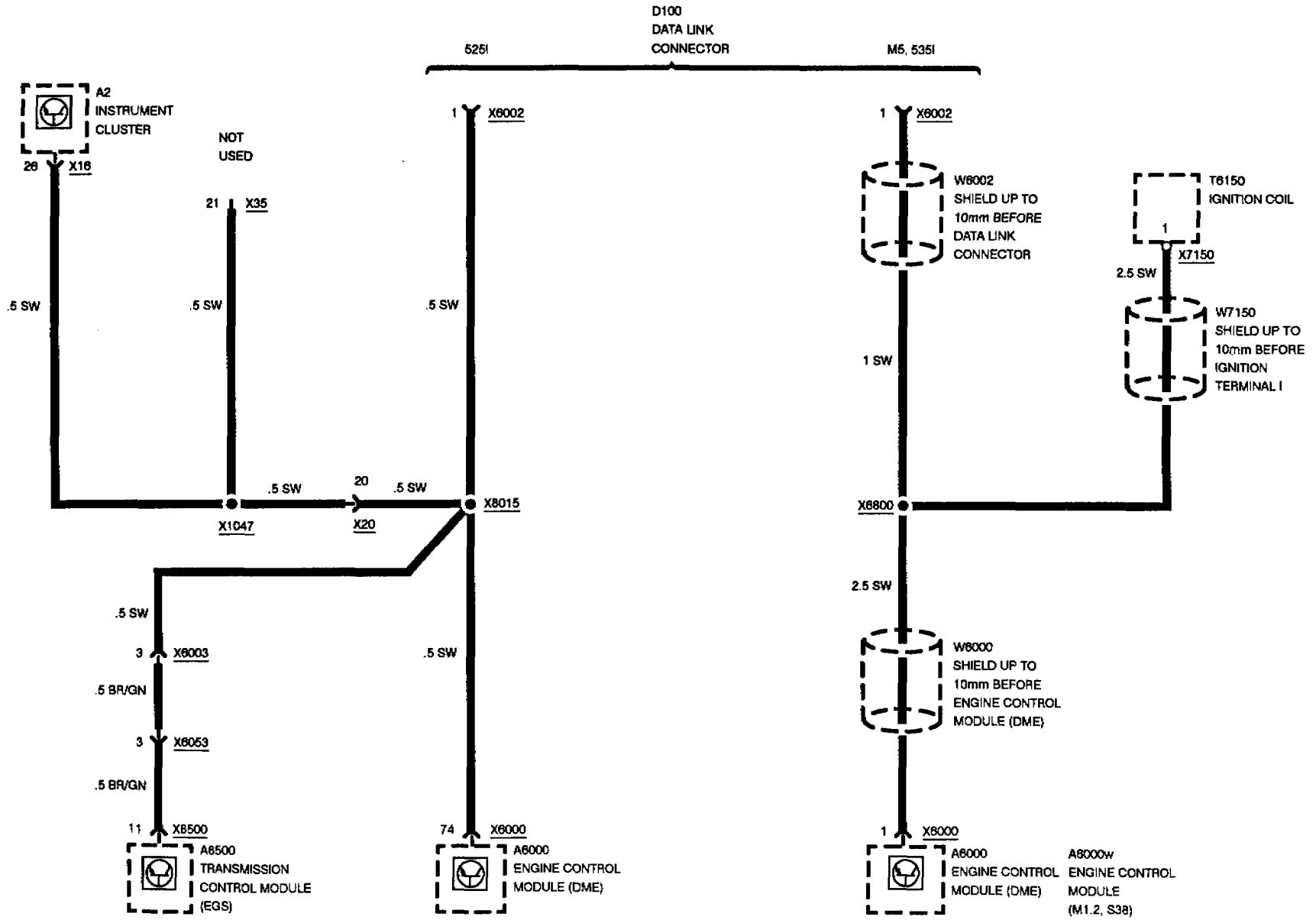
DATA LINK CONNECTOR PIN 19



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DATA LINK

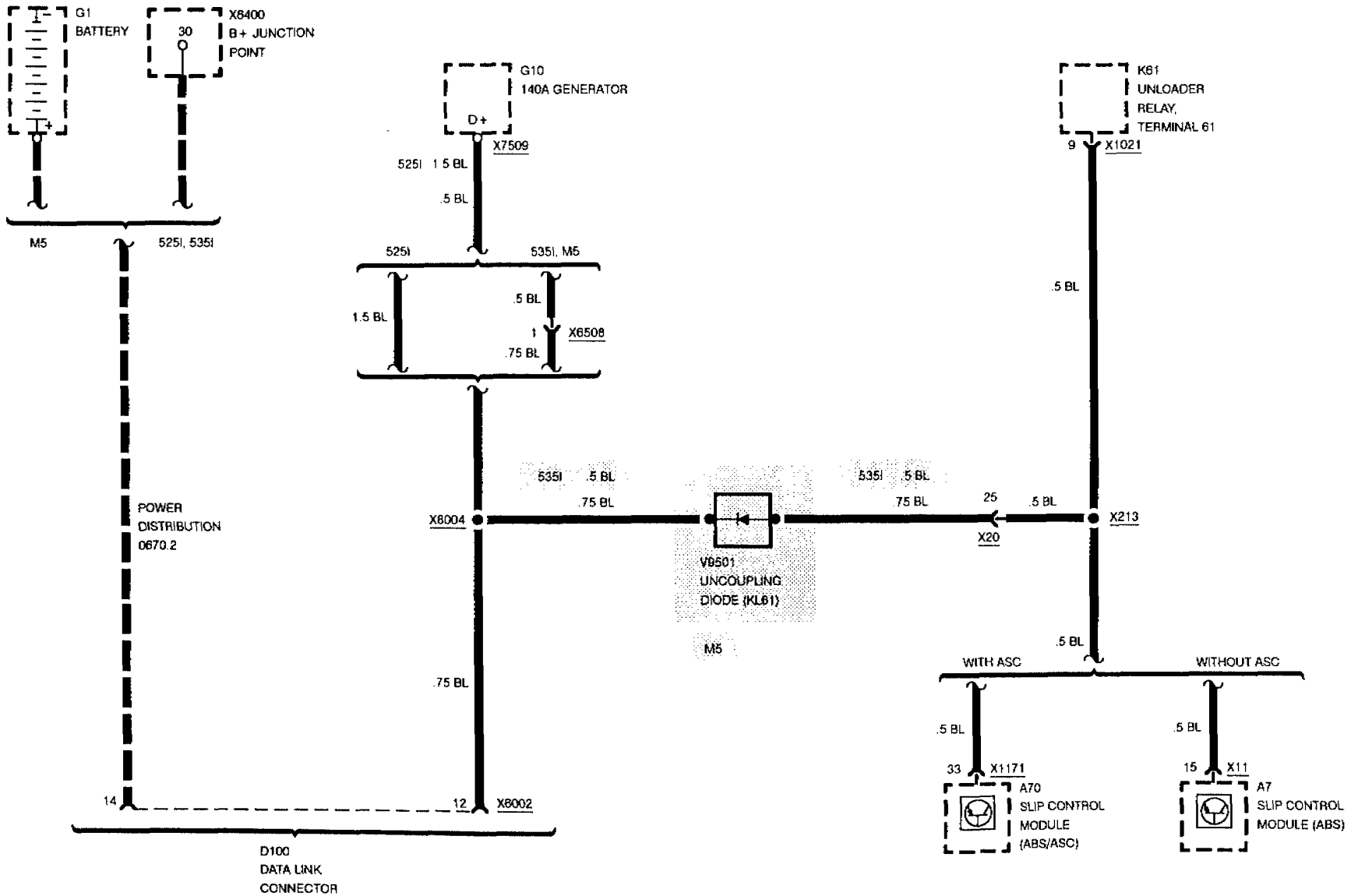
DATA LINK CONNECTOR PIN 1



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DATA LINK

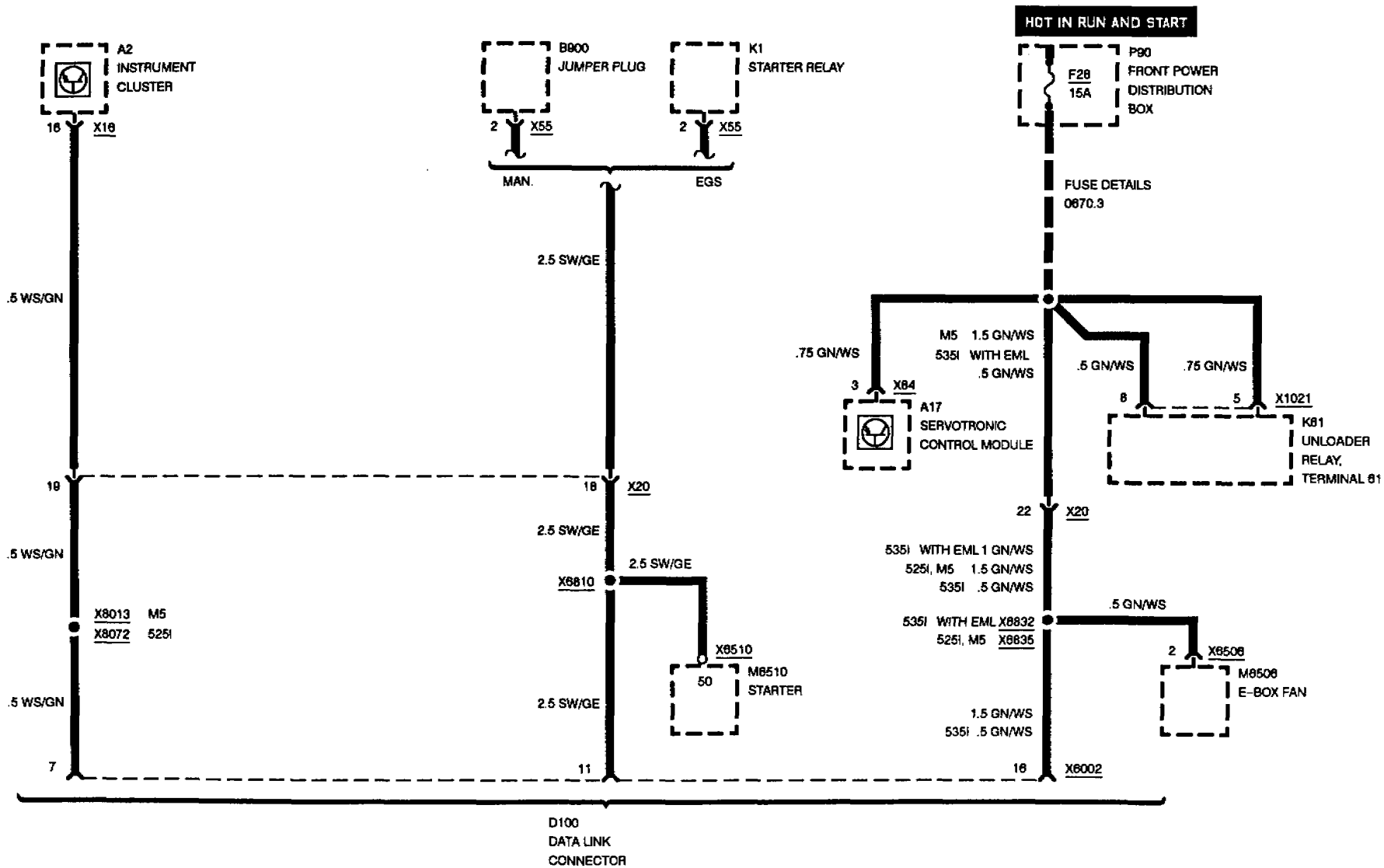
DATA LINK PINS 12 AND 14



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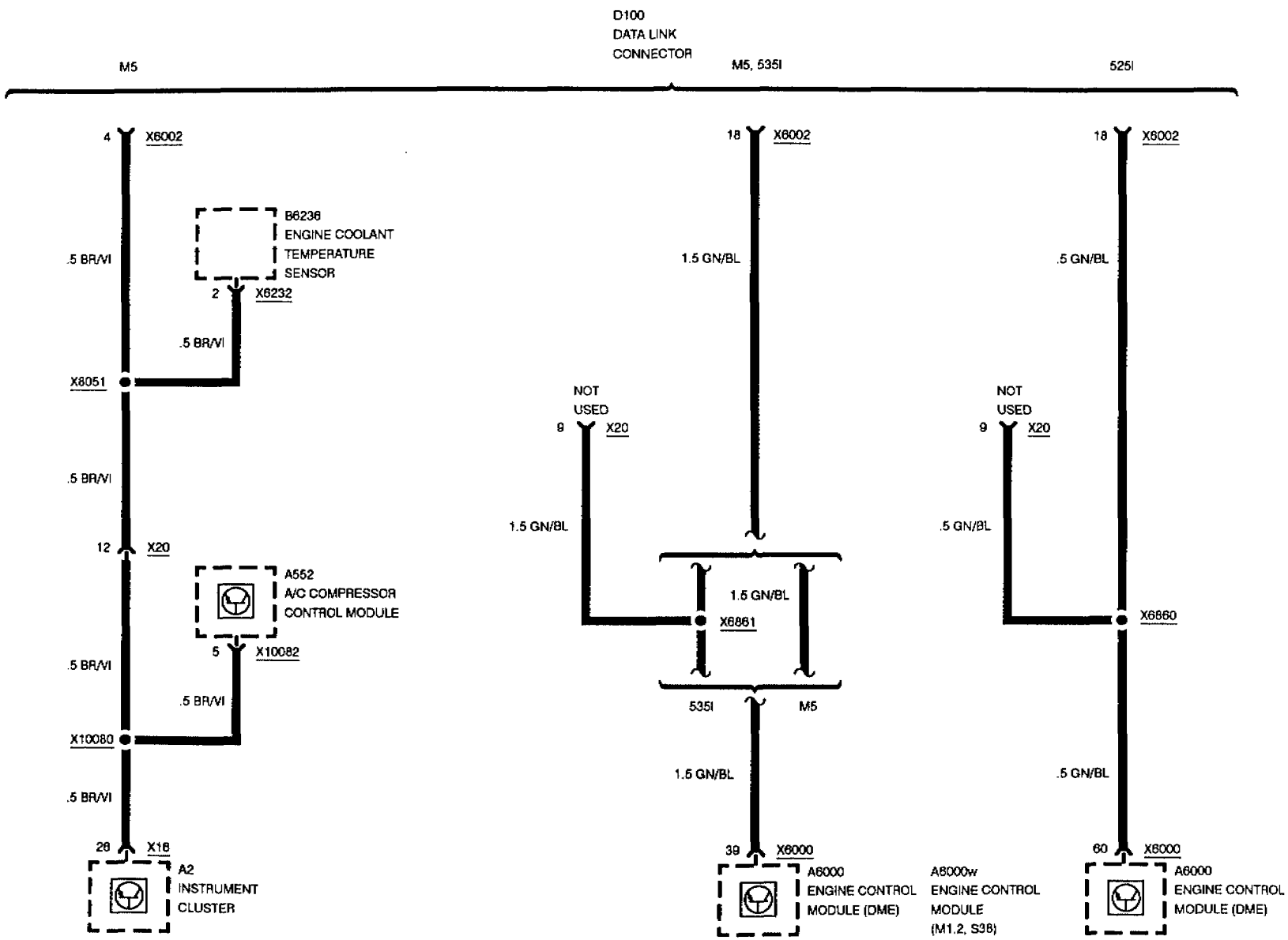
DATA LINK CONNECTOR PINS 7, 11, AND 16



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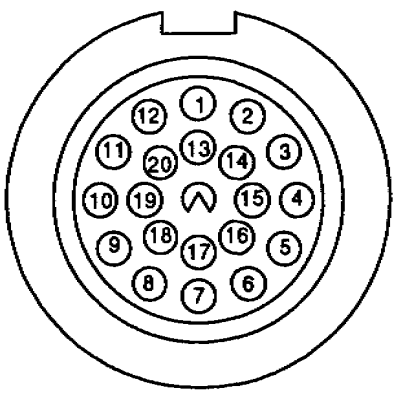
DATA LINK

DATA LINK CONNECTOR PINS 4 AND 18



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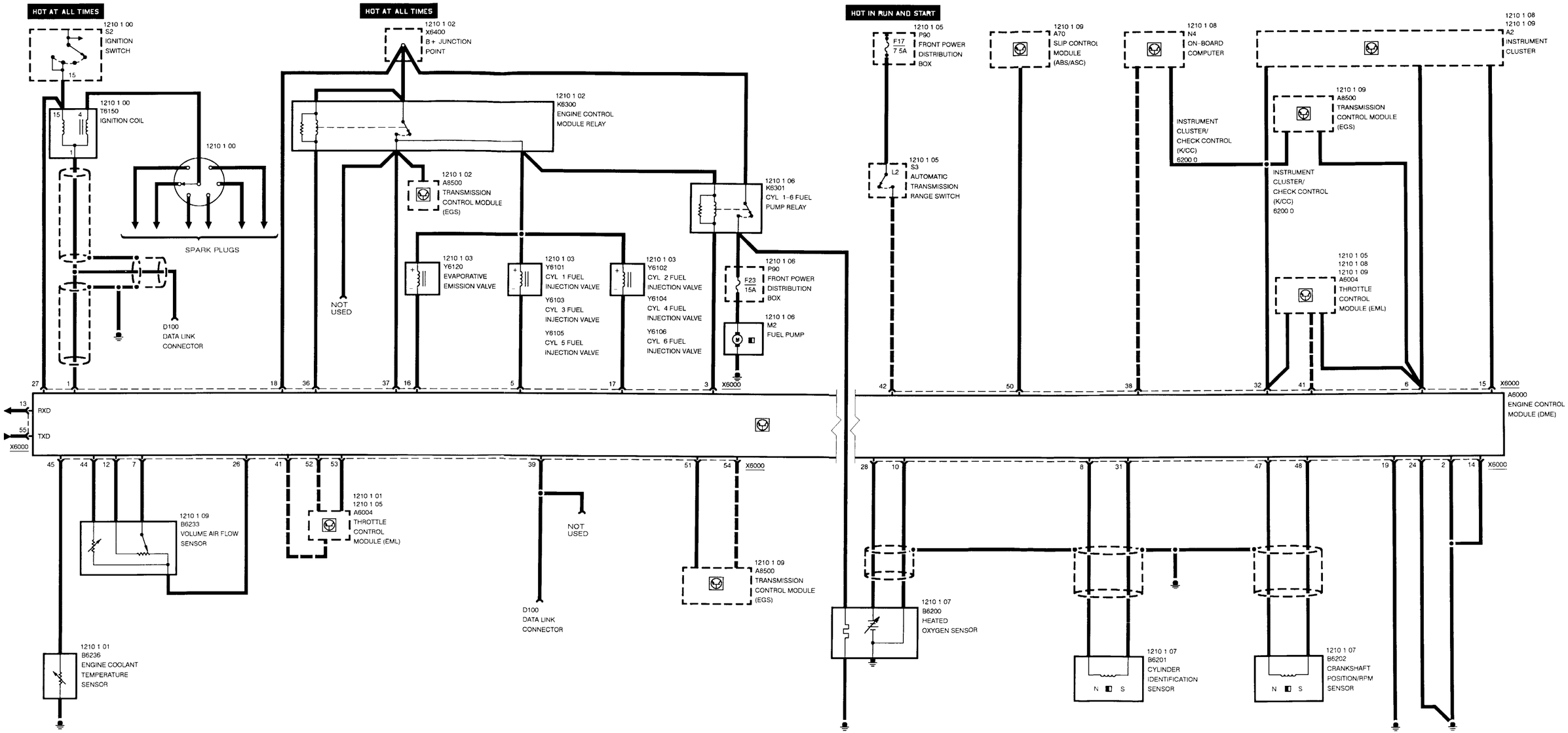
DATA LINK CONNECTOR (X6002)



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

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11/92 1210 1 1992
11/92 1210 1 1992



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Pin Assignments

X6000

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Ignition terminal	Ignition coil	Primary signal	Oscilloscope	Engine test, test step 05
2	M	Ground	Ground point	Ground		
3	A	EKP relay and TR signal (crankshaft reference)	EKP relay and electronic transmission control unit	Ground with superimposed signal	ON	Can only be measered when crankshaft rotating
4		Not used				
5	A	Evaporative valve	Evaporative valve	Pulsed ground	CLOSED/OPEN	Perform component activation, ground = > closed
6	A	Engine speed signal	Instrument cluster	Square wave signal		One signal per ignition
7	E	Air flow meter signal	Air flow meter	0...5 V	Load signal ms	See status monitoring
8	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection B)		ON/OFF	See status monitoring
9		Not used				
10	M	Ground, oxygen sensor	Oxygen sensor	Ground		
11		Not used				
12	A	Voltage supply, air flow meter	Air flow meter	- 5 V		
13	E	RxD diagnostic data line	Diagnostic connector	> 10 V		When cover of diagnostic connector closed

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DIGITAL ENGINE ELECTRONICS (DME 1.3, 6-CYLINDER M30 WITH EML)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
14	M	Ground injection valves	Ground point	Ground		
15	A	Indicator "Check engine"	Instrument cluster	Ground		Comes on if emission related error code is stored, and comes on during starting
16	A	Injection valves cyl. (1+3+5)	Injection valve	Pulsed ground	Injection time ti	Ground => injector valves open, see component activation
17	A	Injection valves cyl. (2+4+6)	Injection valve	Pulsed ground	Injection time ti	Ground => injector valves open, see component activation
18	E	Hot at all times	Terminal 30	> 10 V		
19	M	Ground for electronics and sensor shields	Ground point	Ground		
20		Not used				
21		Not used				
22		Not used				
23		Not used				
24	M	Ground, remaining output stages (except for ignition and injection valves)	Ground point	Ground		
25		Not used				
26	M	Ground, air flow meter	Air flow meter	Ground		
27	E	Ignition terminal 15	Ignition switch	> 10 V		
28	E	Oxygen sensor signal	Oxygen sensor	Pulsating voltage up to approx. 1 V	Voltage value	Can only be measured with the engine running at operating temperature

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DIGITAL ENGINE ELECTRONICS (DME 1.3, 6-CYLINDER M30 WITH EML)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
29		Not used				
30		Not used				
31	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection A)		ON/OFF	See status monitoring
32	A	tl Measuring signal (KVA signal)	Instrument cluster	Square wave signal	Multimeter function pulse duration	Oscilloscope
33		Not used				
34		Not used				
35		Not used				
36	A	DME main relay	DME main relay terminal 85	Ground	ON	Diagnosis not possible if not fitted, connect jumper at relay terminal 30 and 87
37	E	U-Batt from DME main relay	Main relay terminal 87	U-Batt	Voltage value	Perform status monitoring. Diagnosis not possible if signal not applied. Connect jumper terminal 30 and 87 on relay
38	E	Drive away protection	On-board computer	> 10 V		
39	E	Programming voltage	Diagnostic connector			Only activated for control unit programming
40		Not used				
41	E	Auxiliary fan signal	EML control unit	12 V	ON/OFF	
42	E	Drive range P/N	Transmission selector lever switch	Ground	ON	When position P/N
43		Not used				
44	E	Intake air temperature	Air quantity meter	0...5 V	°C	Temperature dependent

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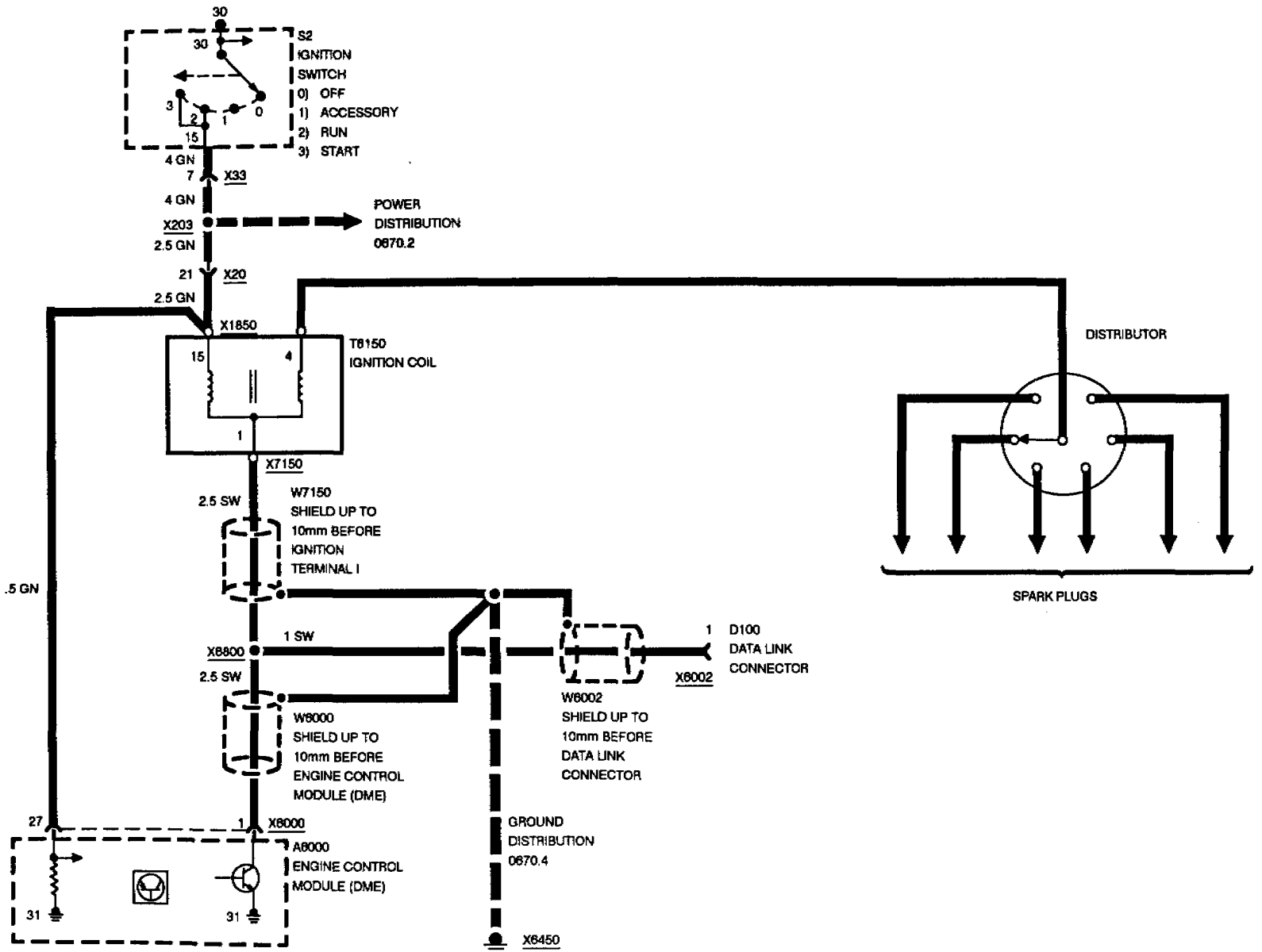
DIGITAL ENGINE ELECTRONICS (DME 1.3, 6-CYLINDER M30 WITH EML)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
45	E	Engine coolant temp.	Engine coolant temp. sensor	0...5 V	°C	Temperature dependent
46		Not used				
47	E	Inductive pulse generator (connection A)	Pulse generator engine speed, crankshaft position	A/C voltage	Engine speed	Between Pins 47 and 48 (can only be measured with crankshaft rotating)
48	E	Inductive pulse generator (connection B)	Pulse generator engine speed, crankshaft position	A/C voltage	Engine speed	Status monitoring at or above starting rpm
49		Not used				
50	E	Torque cutout signal	ABS/ASC control unit			
51	E	Ignition timing intervention	Electronic transmission control unit	Ground	ON	Only active during gear shift
52	E	Idle signal	EML control unit	Ground	ON	See status monitoring on set idle speed
53	E	Full load signal VL	EML control unit	Ground	ON	At full load (kick-down)
54	E	Torque converter clutch WK	Electronic transmission control unit EGS	Ground	ON (with engine running)	When WK engaged, see status monitoring
55	E/A	TxD diagnostic data line	Diagnostic connector	Ground		When cover of diagnostic connector closed

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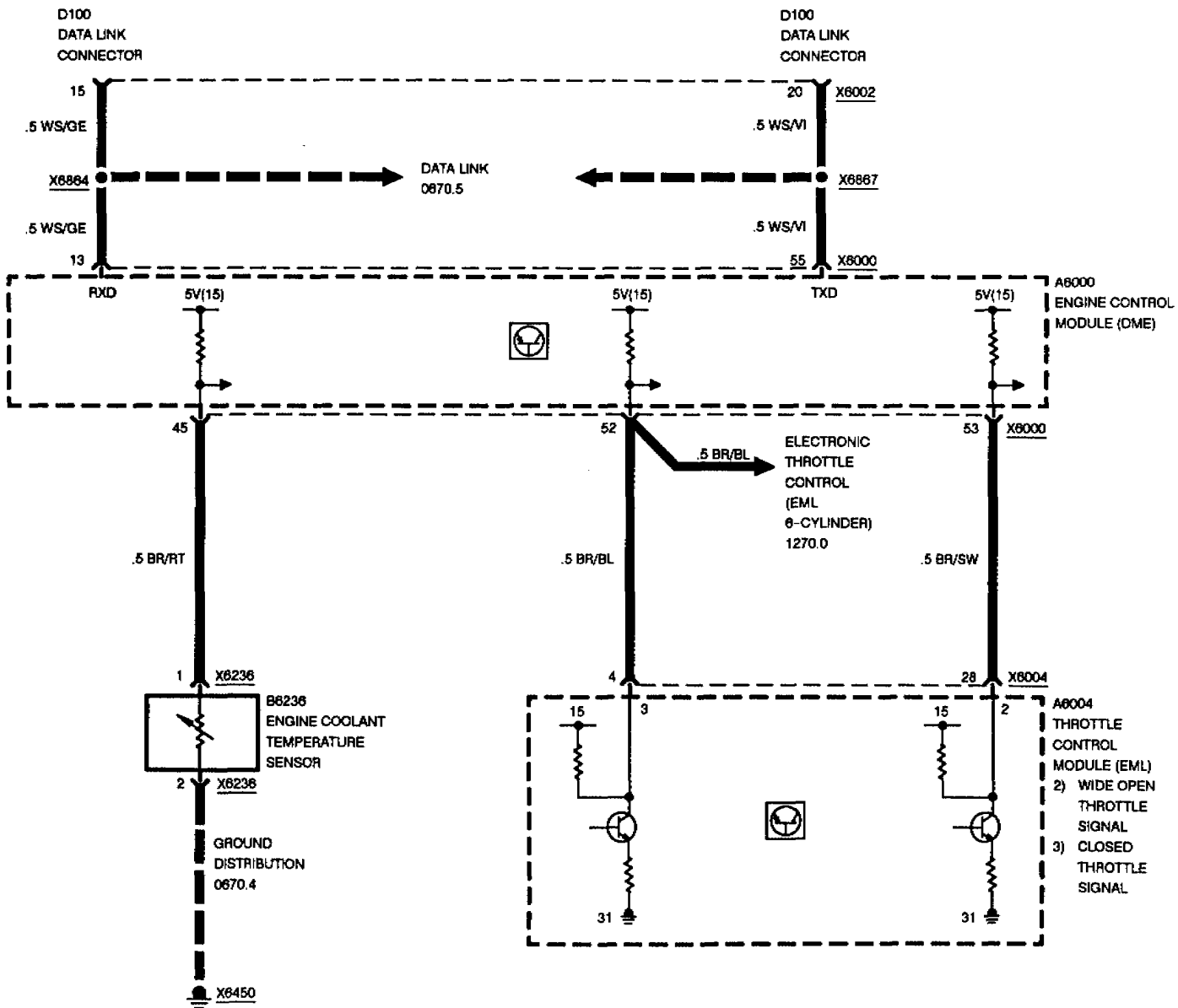
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)



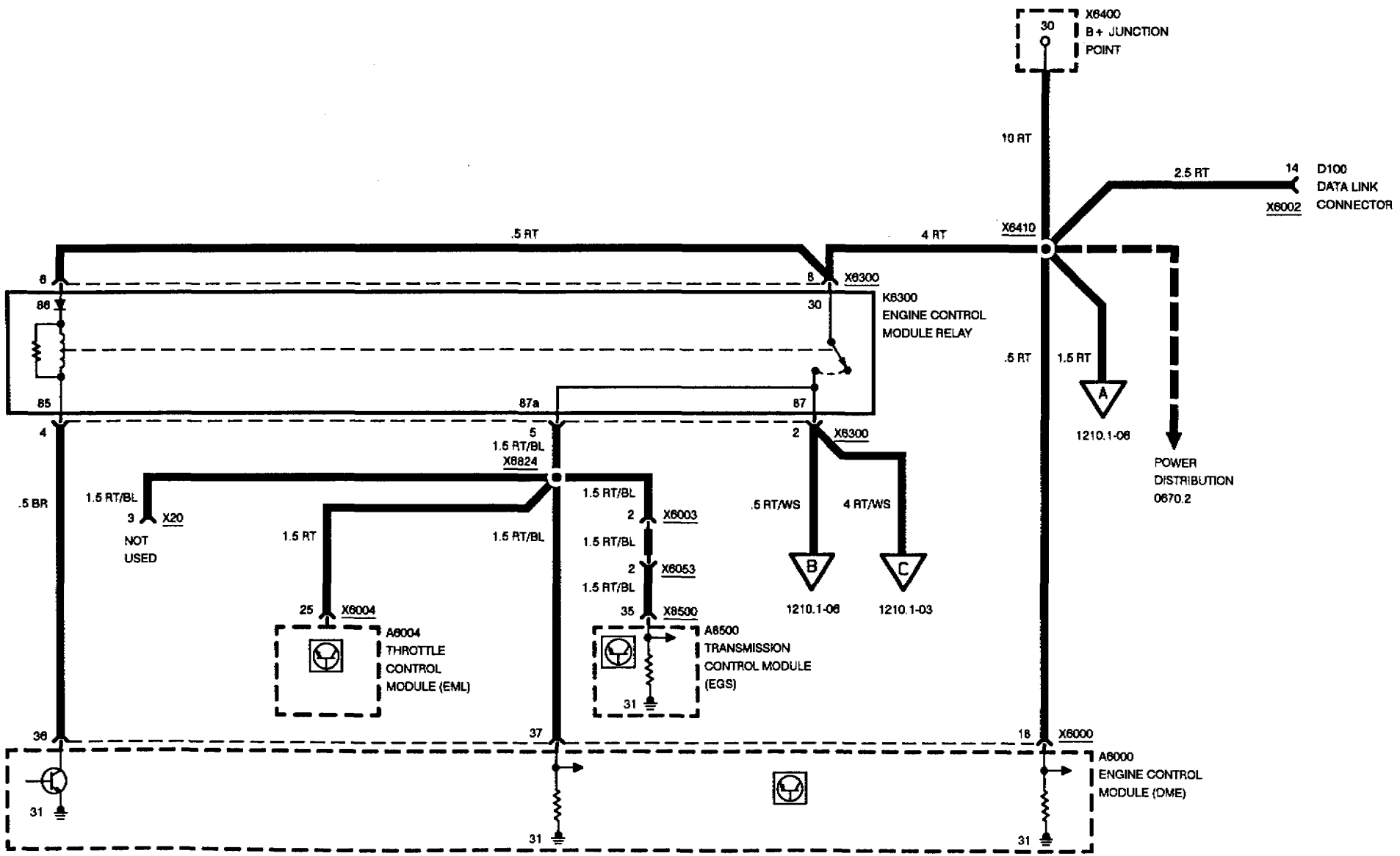
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)



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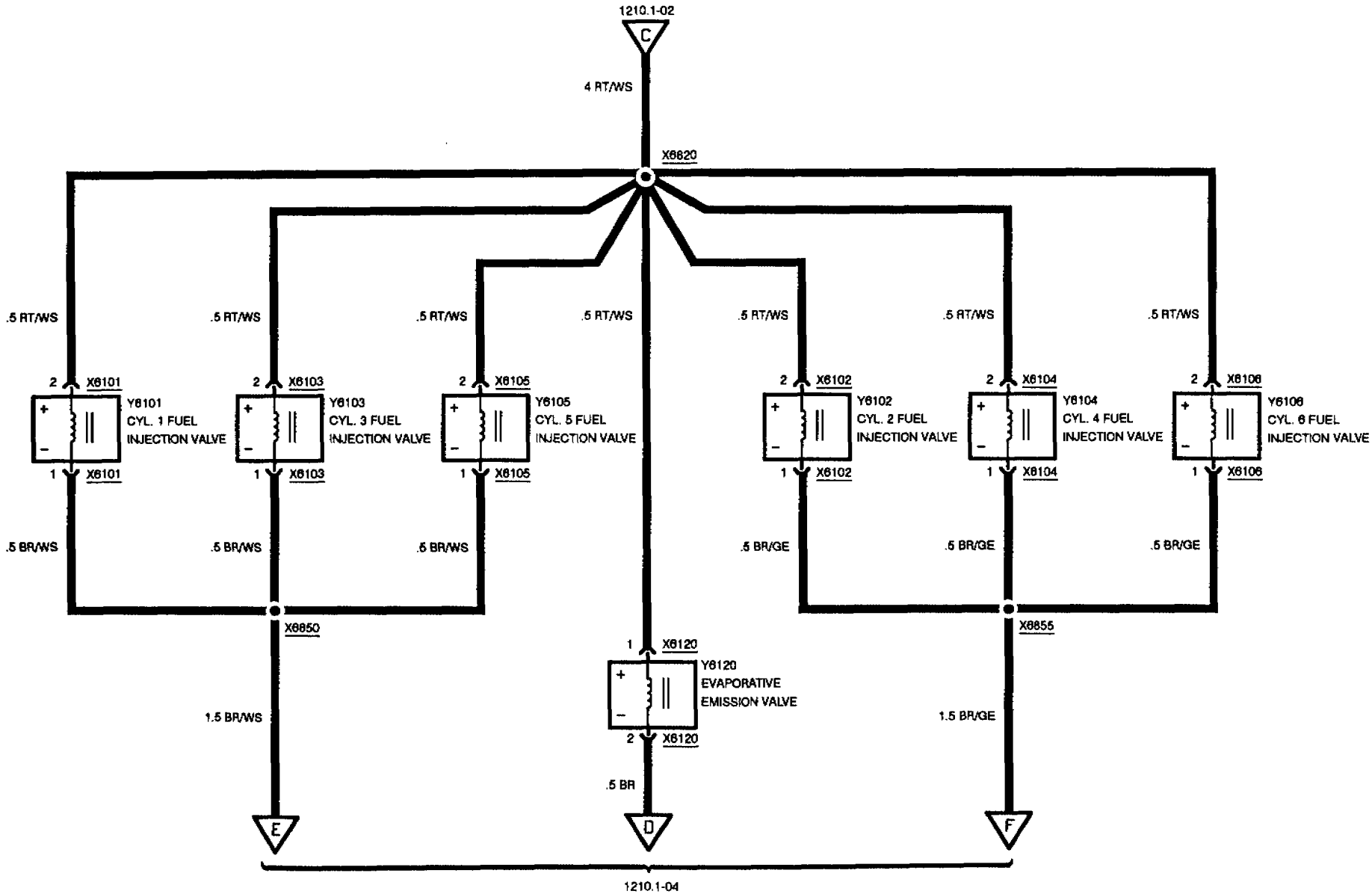
ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)



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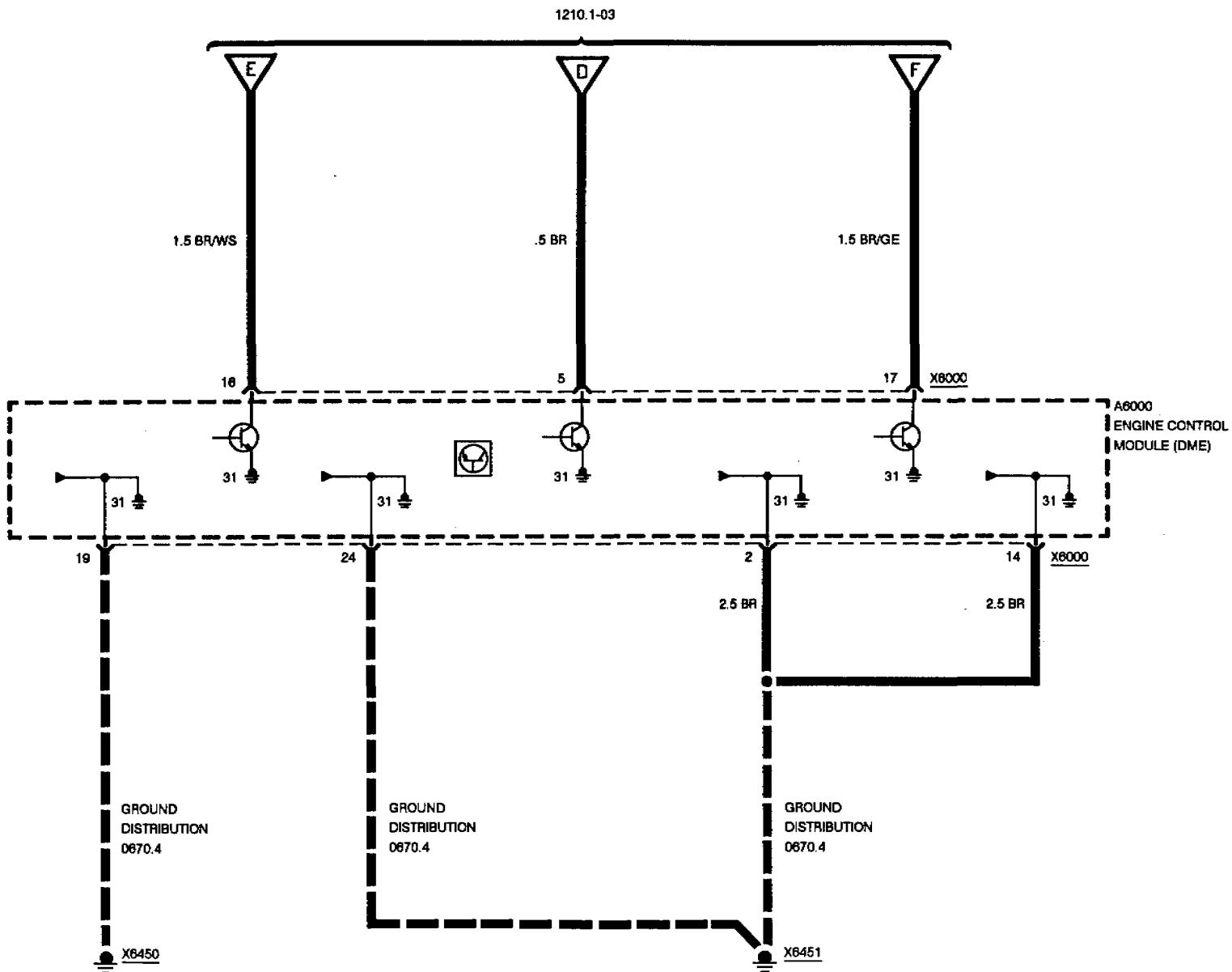
ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)

FUEL INJECTION VALVES



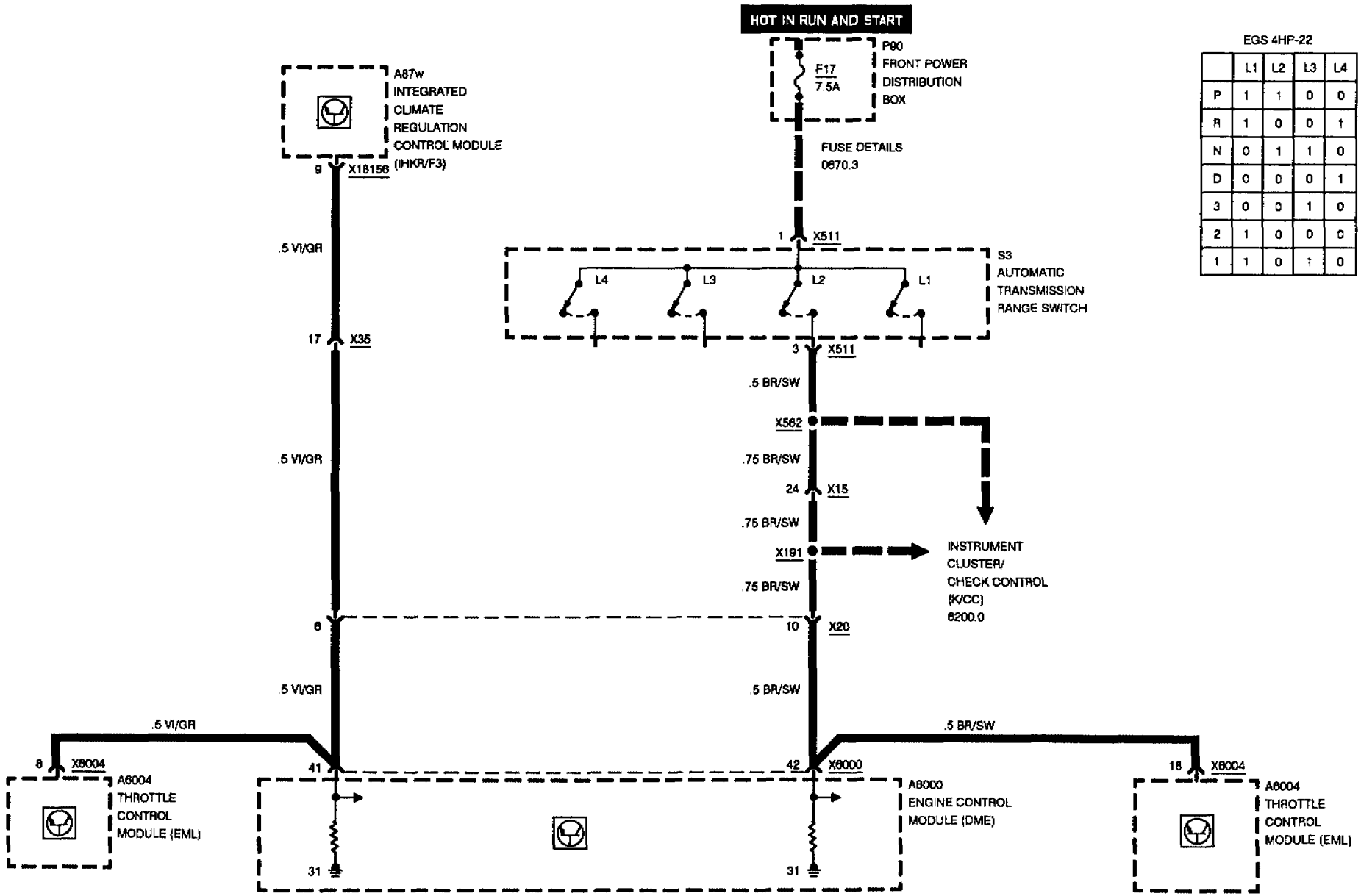
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)



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

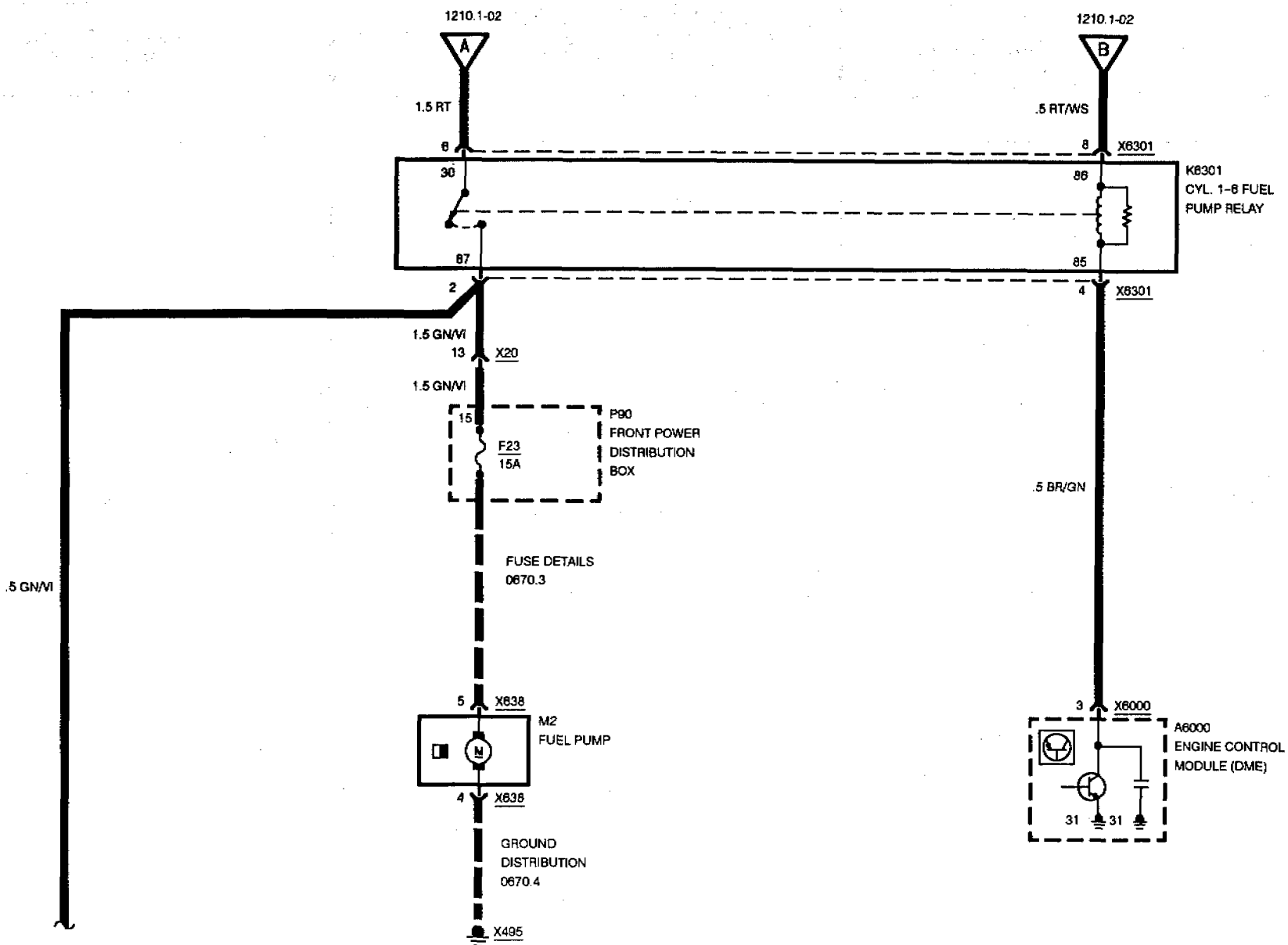


EGS 4HP-22

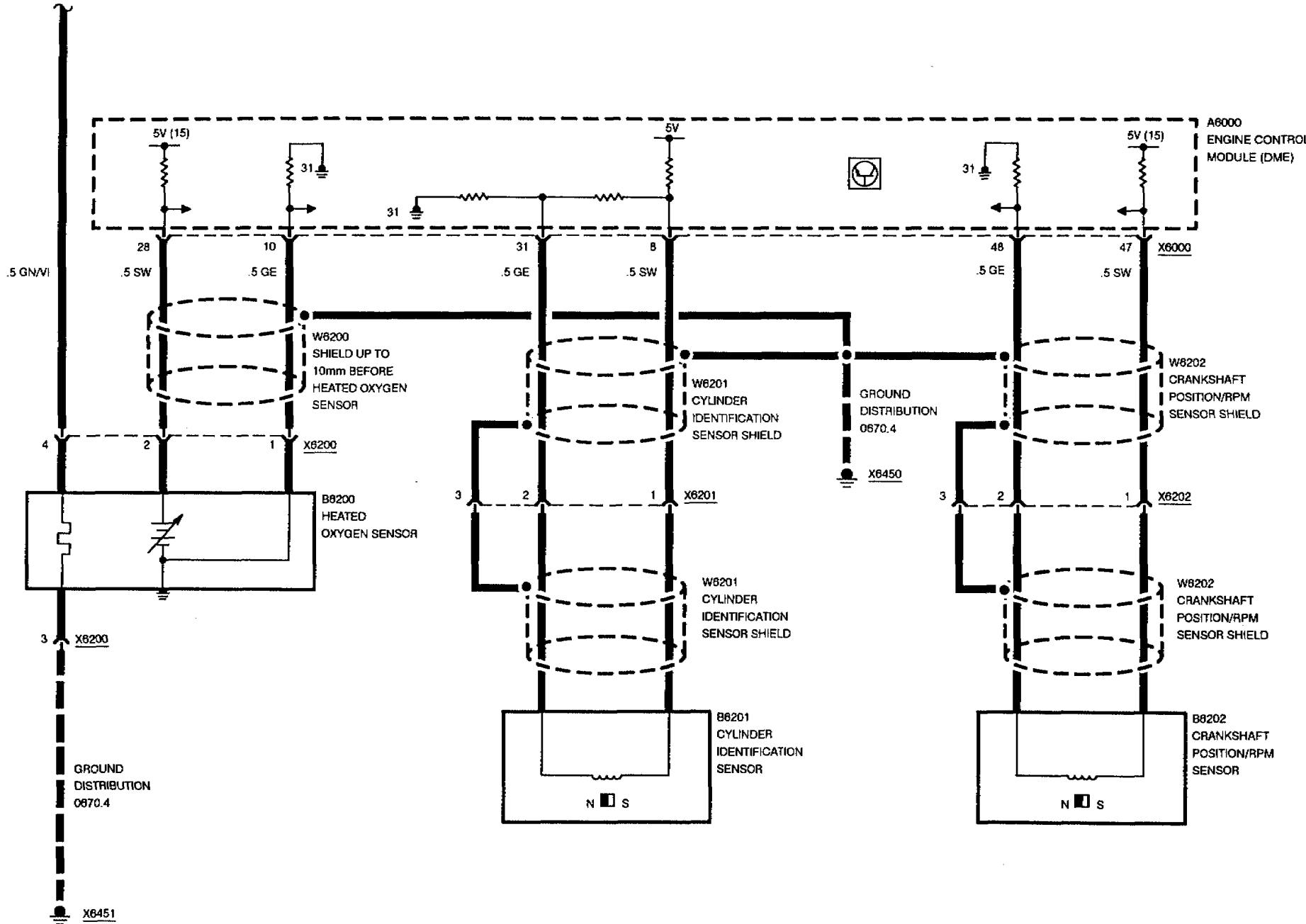
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N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

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

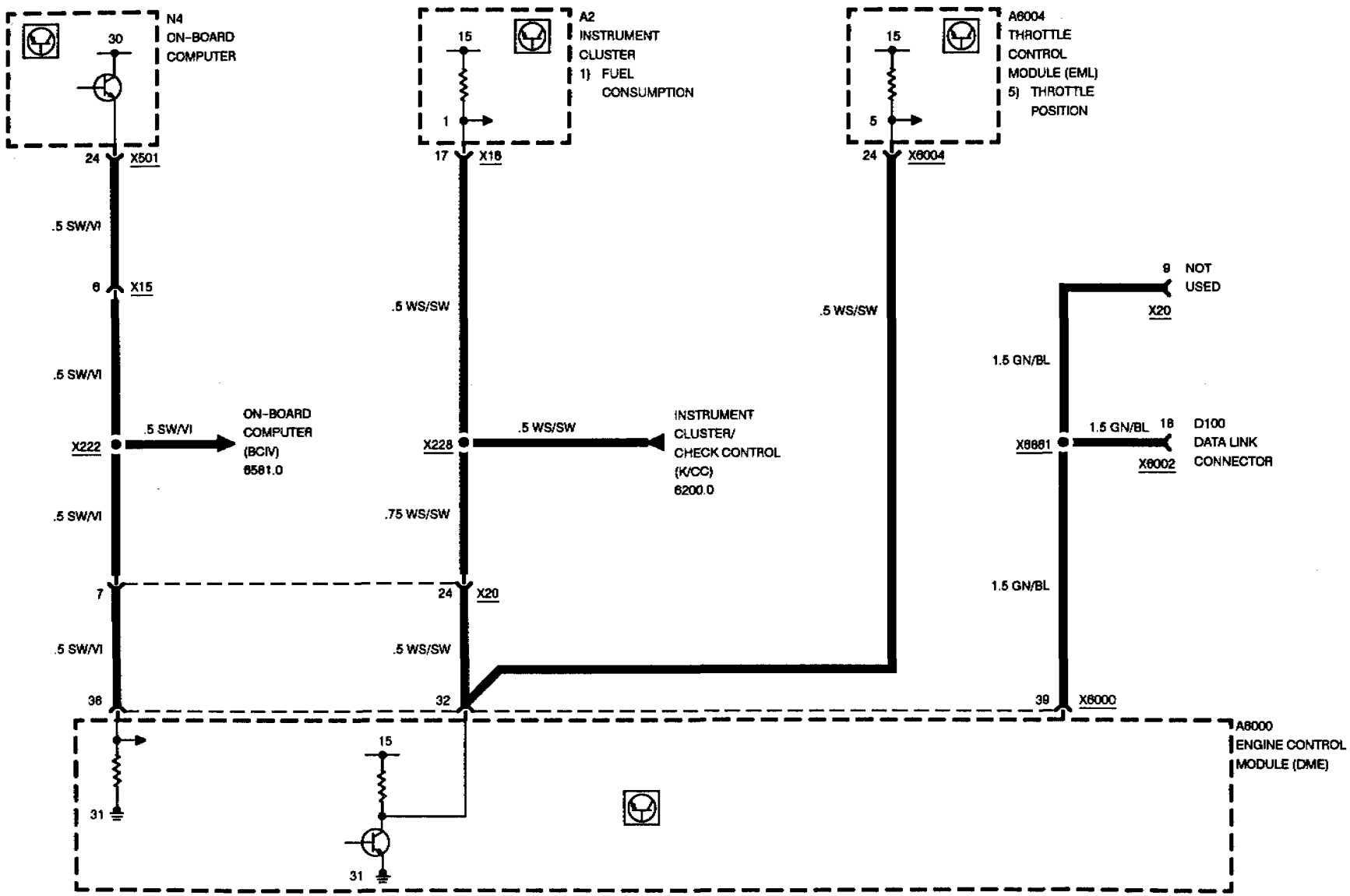


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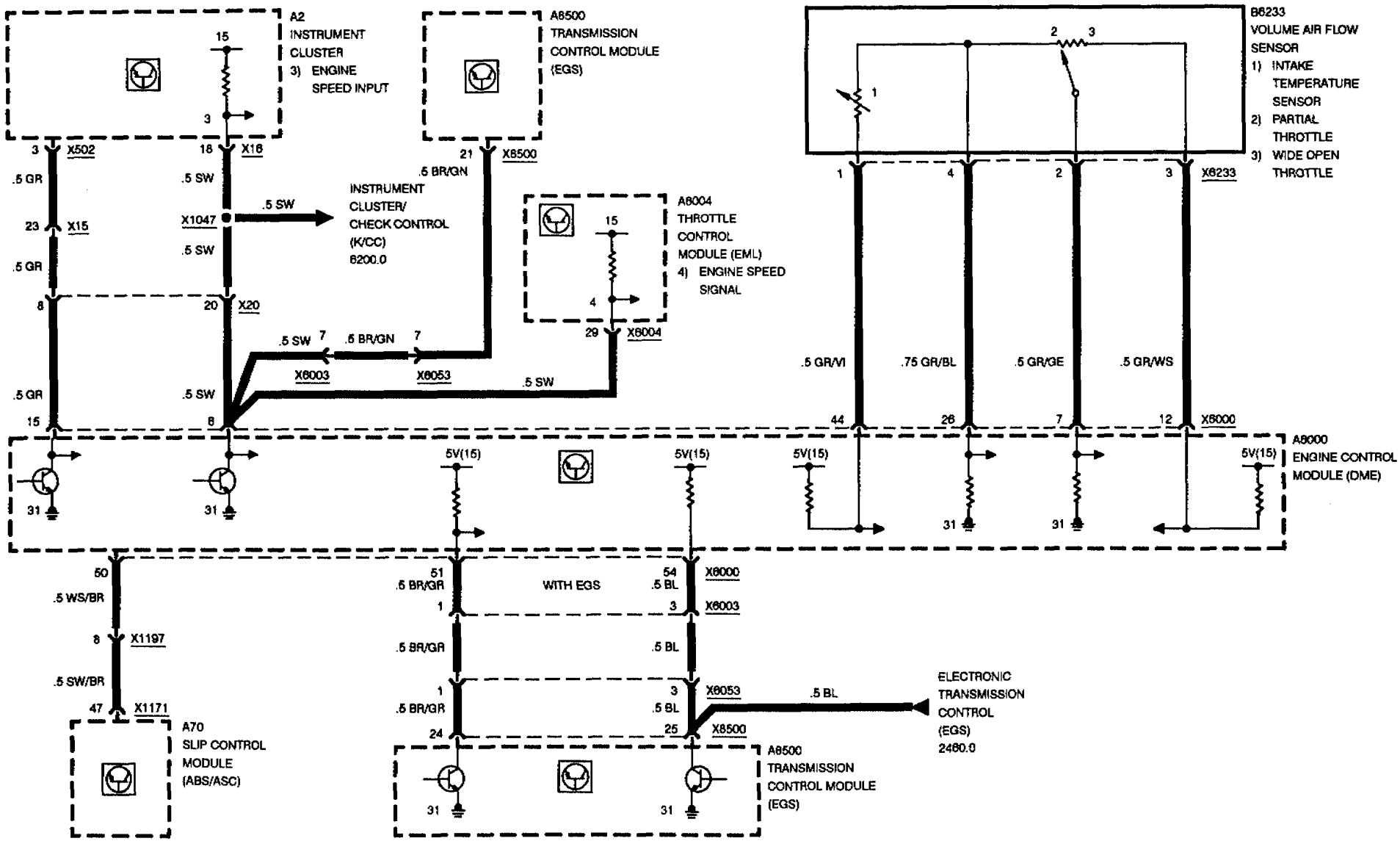
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)



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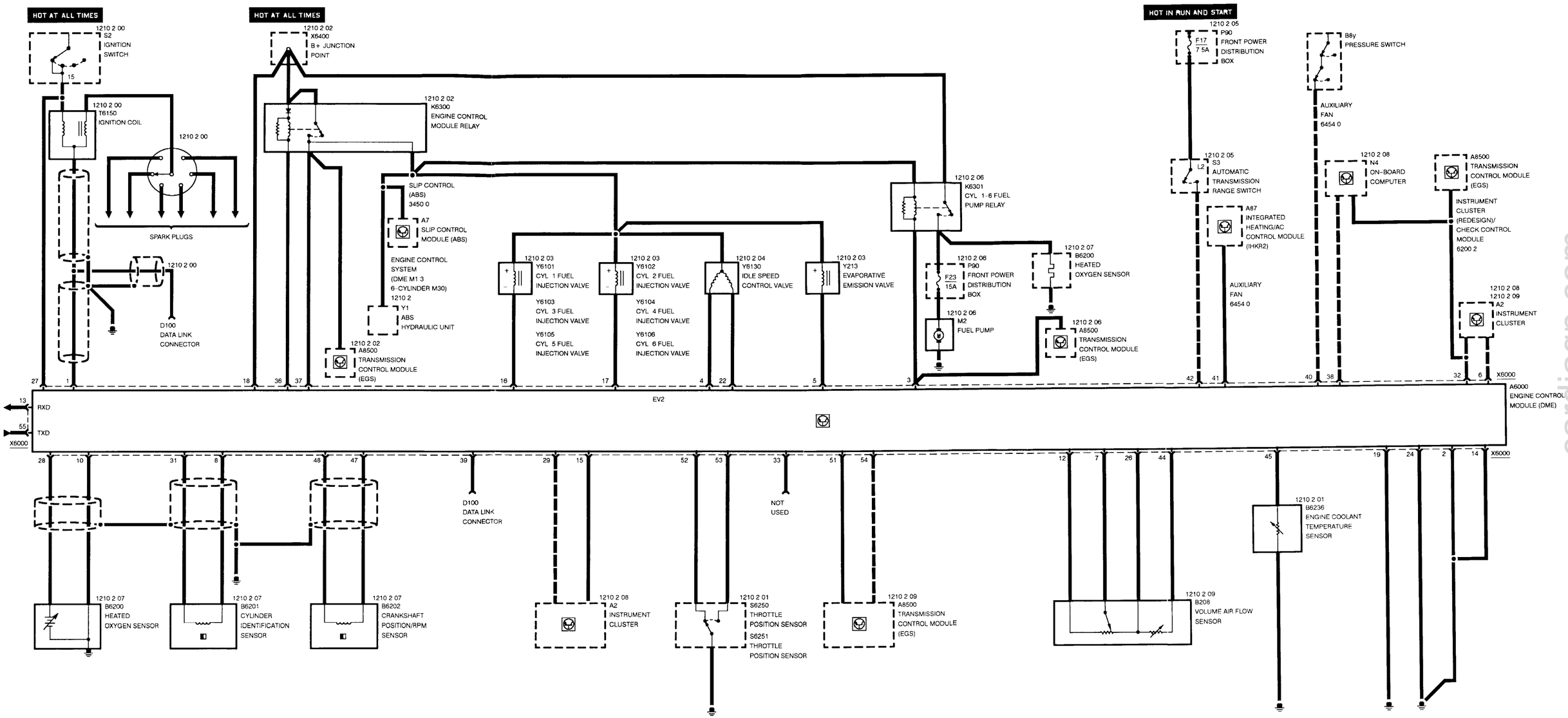
ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30 WITH EML)



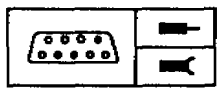
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Pin Assignments

X6000

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Ignition terminal	Ignition coil	Primary signal	Oscilloscope	Engine test, test step 05
2	M	Ground	Ground point	Ground		
3	A	EKP relay and TR signal (crankshaft reference)	EKP relay and electronic transmission control unit	Ground with superimposed signal	ON	Can only be measered when crankshaft rotating
4	A	Idle speed actuator	Idle speed actuator	Pulsed ground		Component activation
5	A	Evaporative valve	Evaporative valve	Pulsed ground	CLOSED/OPEN	Perform component activation, ground = > closed
6	A	Engine speed signal	Instrument cluster	Square wave signal		One signal per ignition
7	E	Air flow meter signal	Air flow meter	0...5 V	Load signal ms	See status monitoring
8	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection B)		ON/OFF	See status monitoring
9		Not used				
10	M	Ground oxygen sensor	Oxygen sensor	Ground		
11		Not used				
12	A	Voltage supply, air flow meter	Air flow meter	~ 5 V		
13	E	RxD diagnostic data line	Diagnostic socket	> 10 V		When cover of diagnostic connector closed

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
14	M	Ground, injection valves	Ground point	Ground		
15	A	Indicator "Check engine"	Instrument cluster	Ground		Comes on if emission related error code is stored, and comes on during starting
16	A	Injection valves cyl. (1+3+5)	Injection valve	Pulsed ground	Injection time ti	Ground = > injector valves open, see component activation
17	A	Injection valves cyl. (2+4+6)	Injection valve	Pulsed ground	Injection time ti	Ground = > injector valves open, see component activation
18	E	Hot at all times	Terminal 30	> 10 V		
19	M	Ground for electronics and shielding the sensors	Ground point	Ground		
20		Not used				
21		Not used				
22	A	Idle speed actuator	Idle speed actuator	Pulsed ground		See component activation
23		Not used				
24	M	Ground, remaining output stages (except for ignition and injection valves)	Ground point	Ground		
25		Not used				
26	M	Ground, air flow meter	Air flow meter	Ground		
27	E	Ignition terminal 15	Ignition switch	> 10 V		
28	E	Oxygen sensor signal	Oxygen sensor	Pulsating voltage up to approx. 1 V	Voltage value	Can only be measured with the engine running at operating temperature

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DIGITAL ENGINE ELECTRONICS (DME M1.3, 6-CYLINDER M30)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
29	E	Vehicle speed sensor	Instrument cluster	Square wave signal	km/h	
30		Not used				
31	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection A)		ON/OFF	See status monitoring
32	A	tI Measuring signal (KVA signal)	Instrument cluster	Square wave signal	Multimeter function pulse duration	
33		Not used				
34		Not used				
35		Not used				
36	A	DME main relay	DME main relay terminal 85	Ground	ON	Diagnosis not possible if not fitted, connect jumper at relay terminal 30 and 87
37	E	U-Batt from DME main relay	Main relay terminal 87	U-Batt	Voltage value	Perform status monitoring. Diagnosis not possible if signal not applied. Connect jumper terminal 30 and 87 on relay
38	E	Drive away protection	On-board computer	> 10 V		
39	E	Programming voltage	Diagnostic connector			Only activated for control unit programming
40	E	A/C compressor signal	Pressure switch, compressor relay		ON/OFF	
41	E	Auxiliary fan signal	IHKR control unit	12 V	ON/OFF	
42	E	Drive range P/N	Transmission selector lever switch	Ground	ON	When position P/N
43		Not used				

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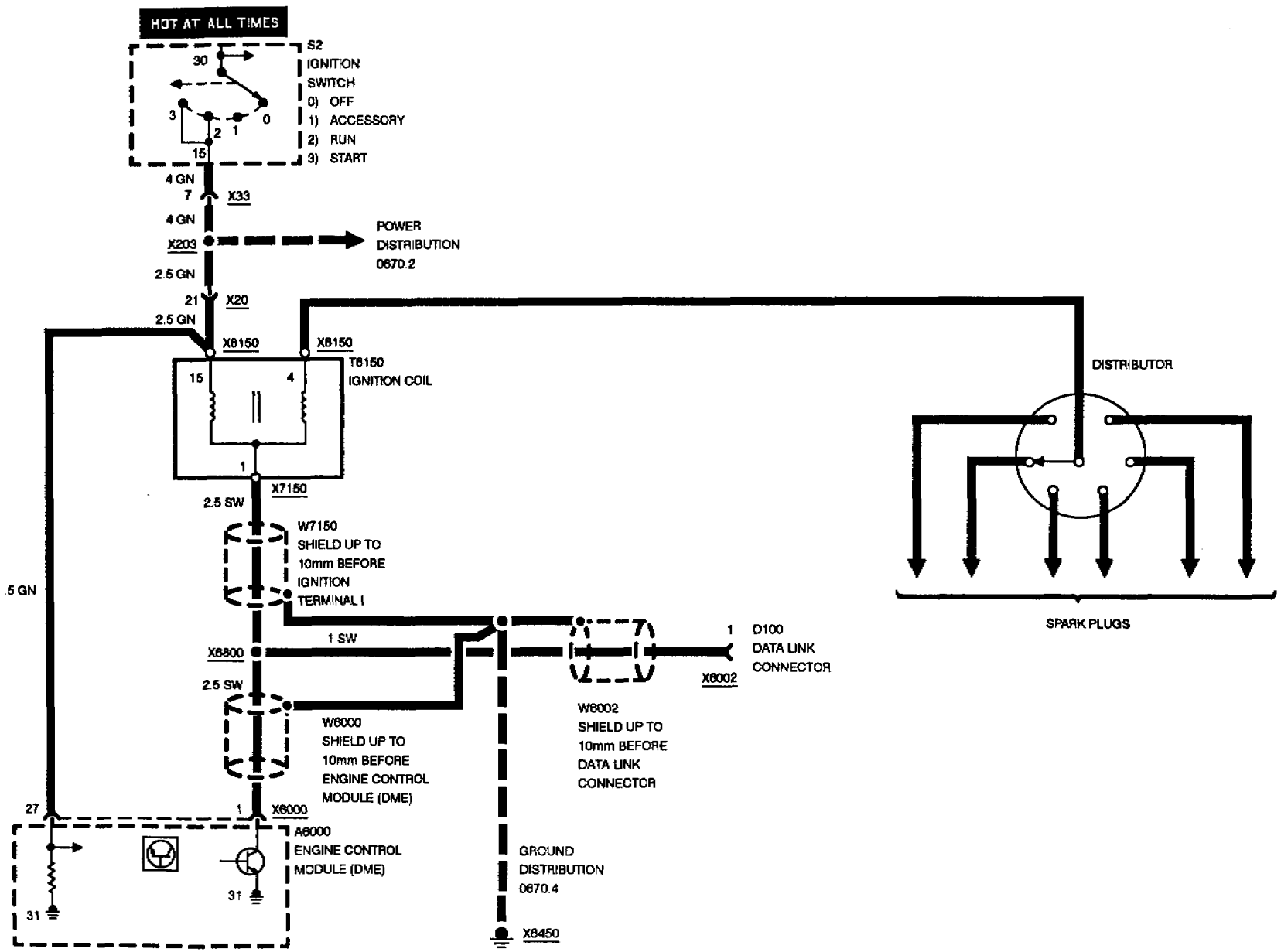
DIGITAL ENGINE ELECTRONICS (DME M1.3, 6-CYLINDER M30)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
44	E	Intake air temperature	Air flow meter	0...5 V	°C	Temperature dependent
45	E	Engine coolant temperature	Engine coolant temperature sensor	0...5 V	°C	Temperature dependent
46		Not used				
47	E	Inductive pulse generator (connection A)	Pulse generator engine speed, crankshaft position	A/C voltage	Engine speed	Between Pins 47 and 48 (can only be measured with crankshaft rotation)
48	E	Inductive pulse generator (connection A)	Pulse generator engine speed, crankshaft position	A/C voltage	Engine speed	Status monitoring at or above starting rpm
49		Not used				
50		Not used				
51	E	Ignition timing intervention	Electronic transmission control unit (EGS)	Ground	ON	Only active during gear shift
52	E	Idle signal	Throttle switch	Ground	ON	See status monitoring on set idle speed
53	E	Full load signal VL	Throttle switch	Ground	ON	At full load (kick-down)
54	E	Torque converter clutch WK	Electronic transmission control unit (EGS)	Ground	ON (with engine running)	When WK engaged, see status monitoring
55	E/A	TxD diagnostic data line	Diagnostic socket	Ground		When cover of diagnostic connector closed

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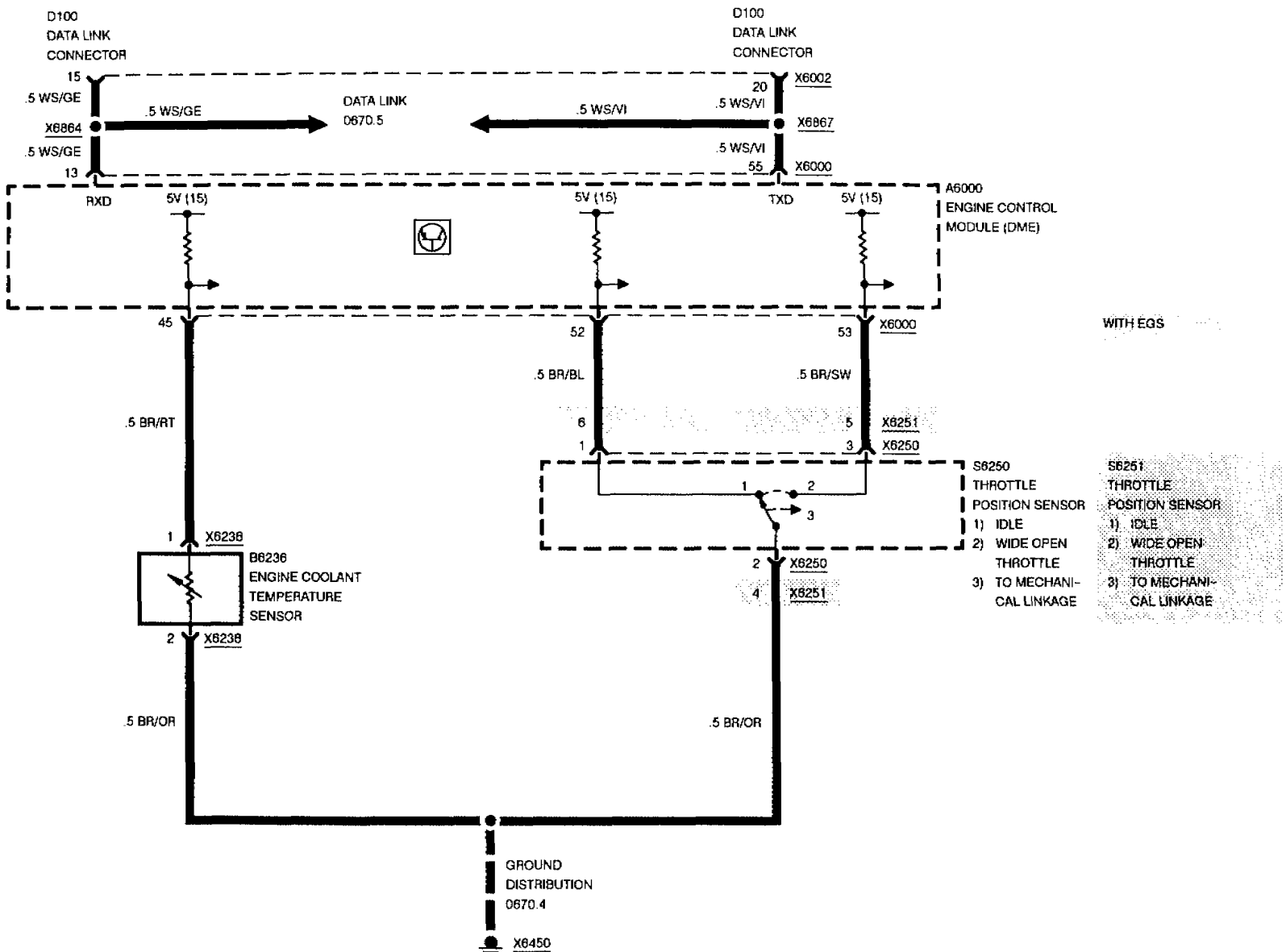
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



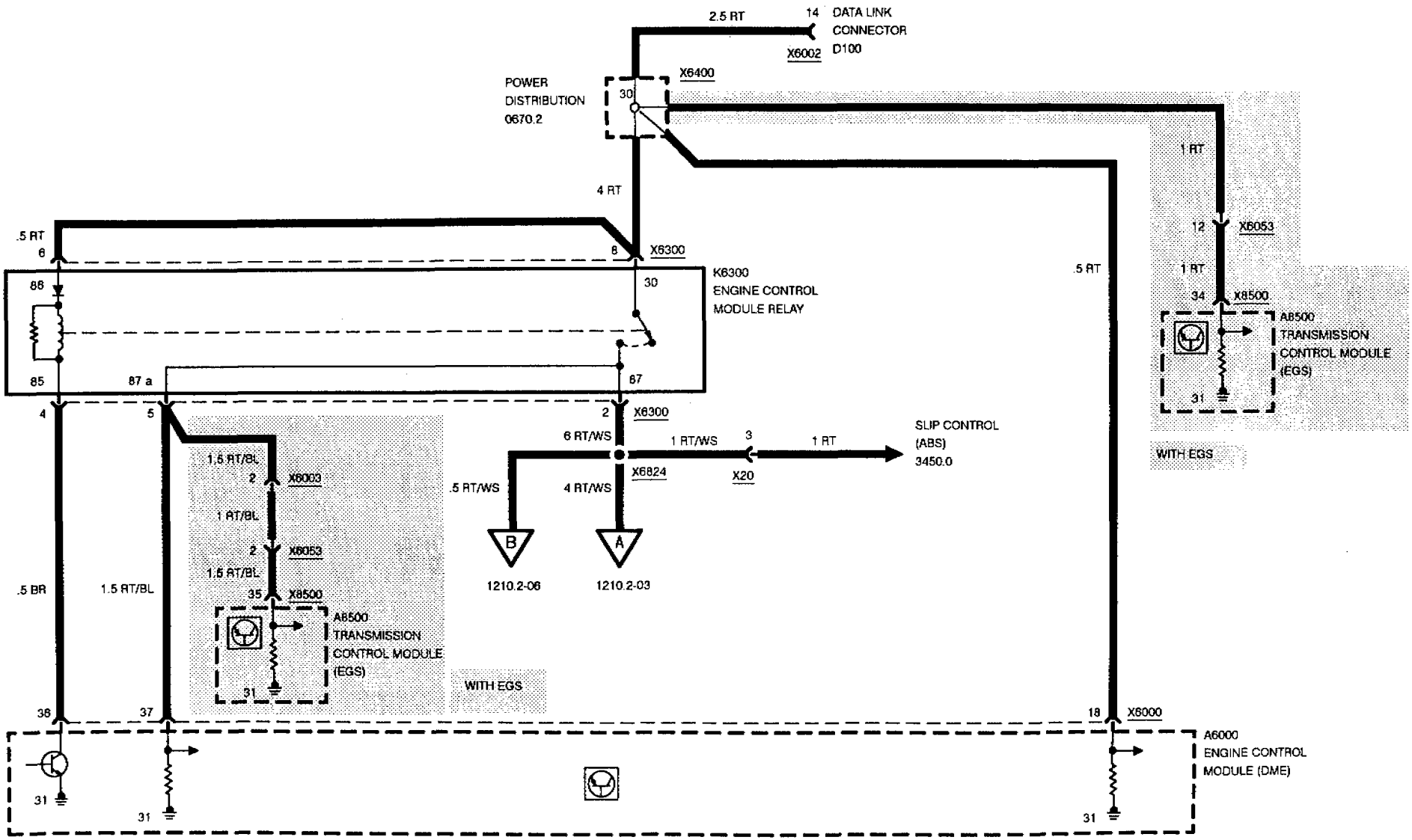
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



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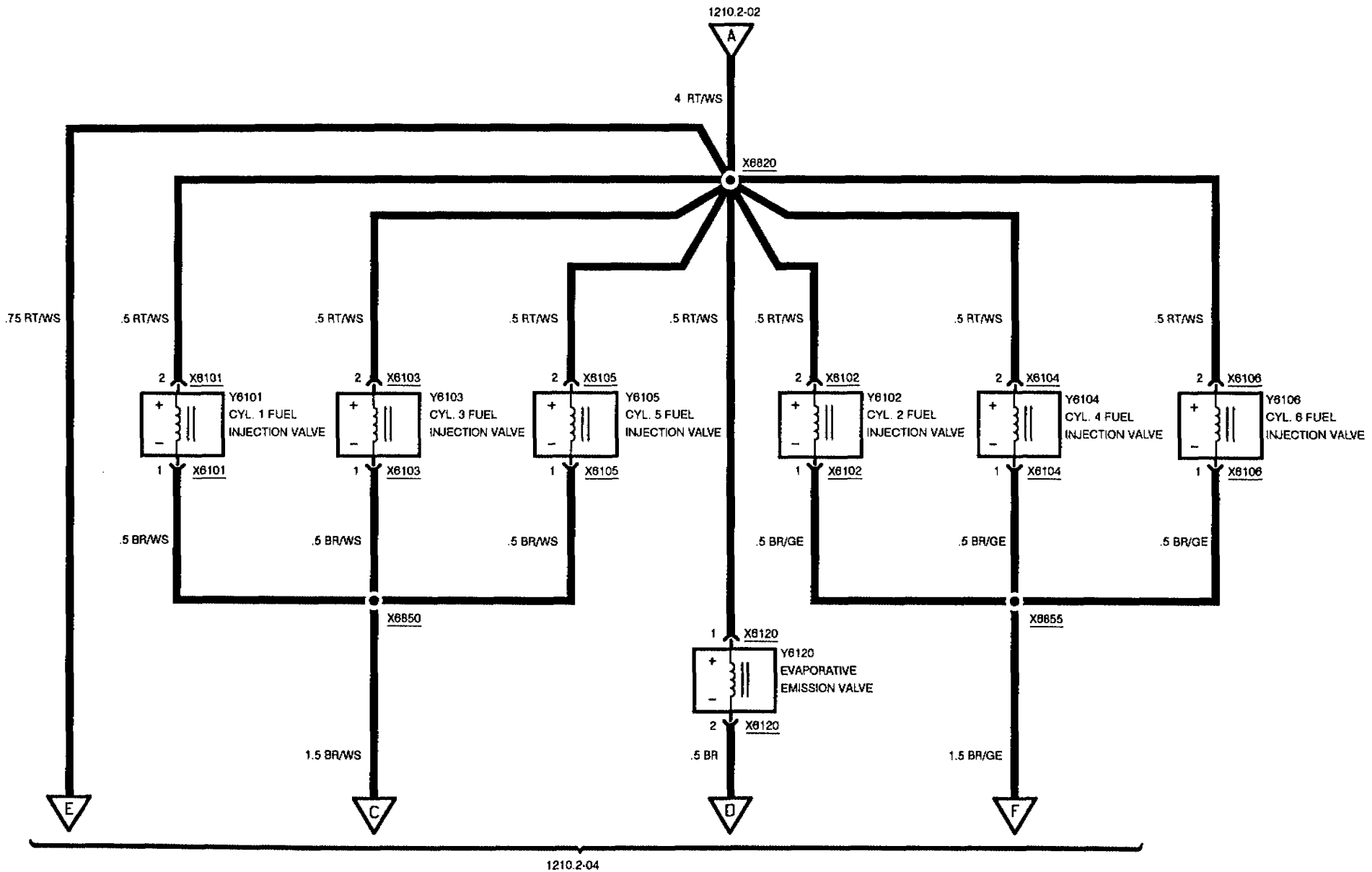
ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



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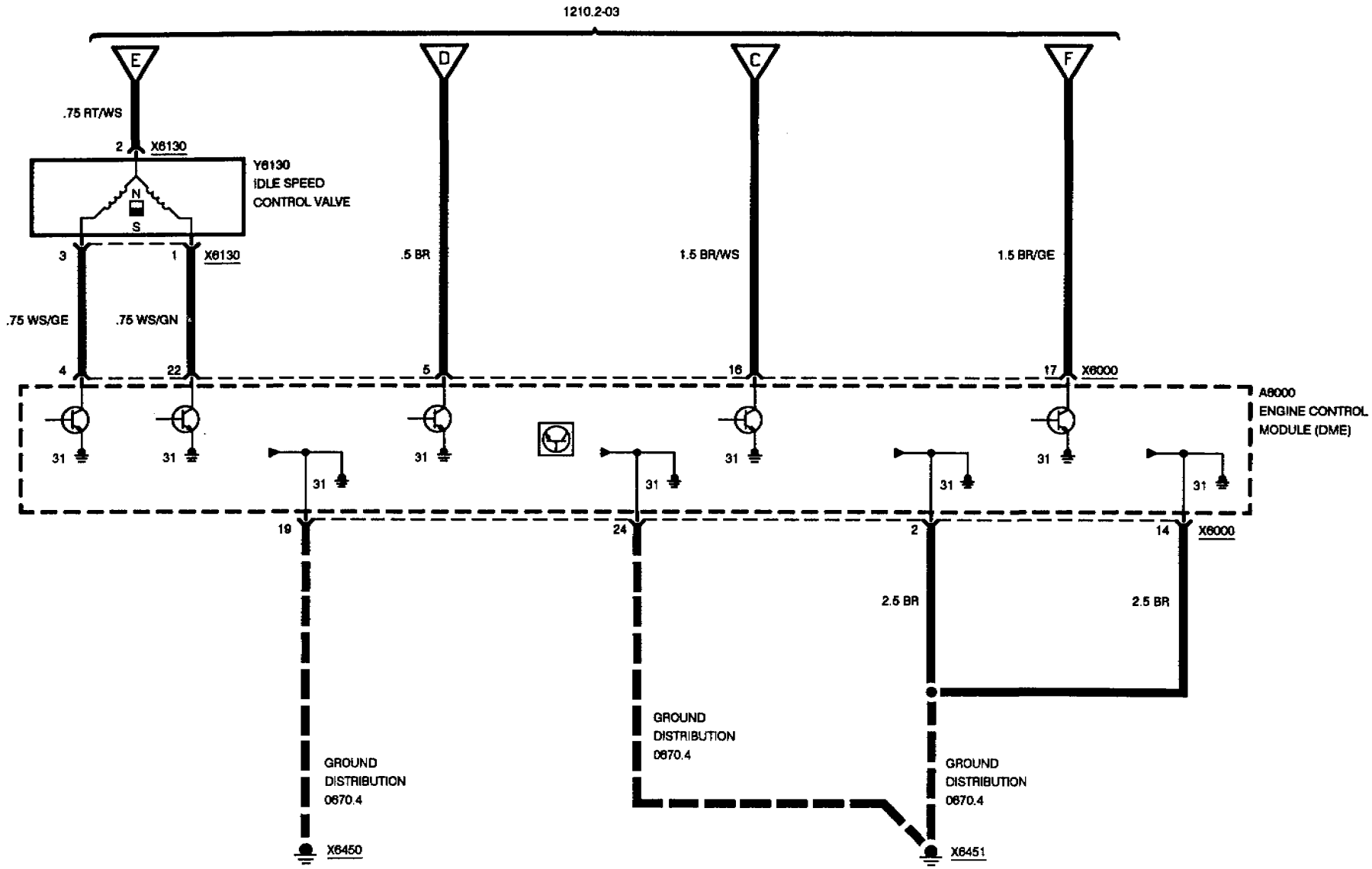
ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)

FUEL INJECTION VALVES



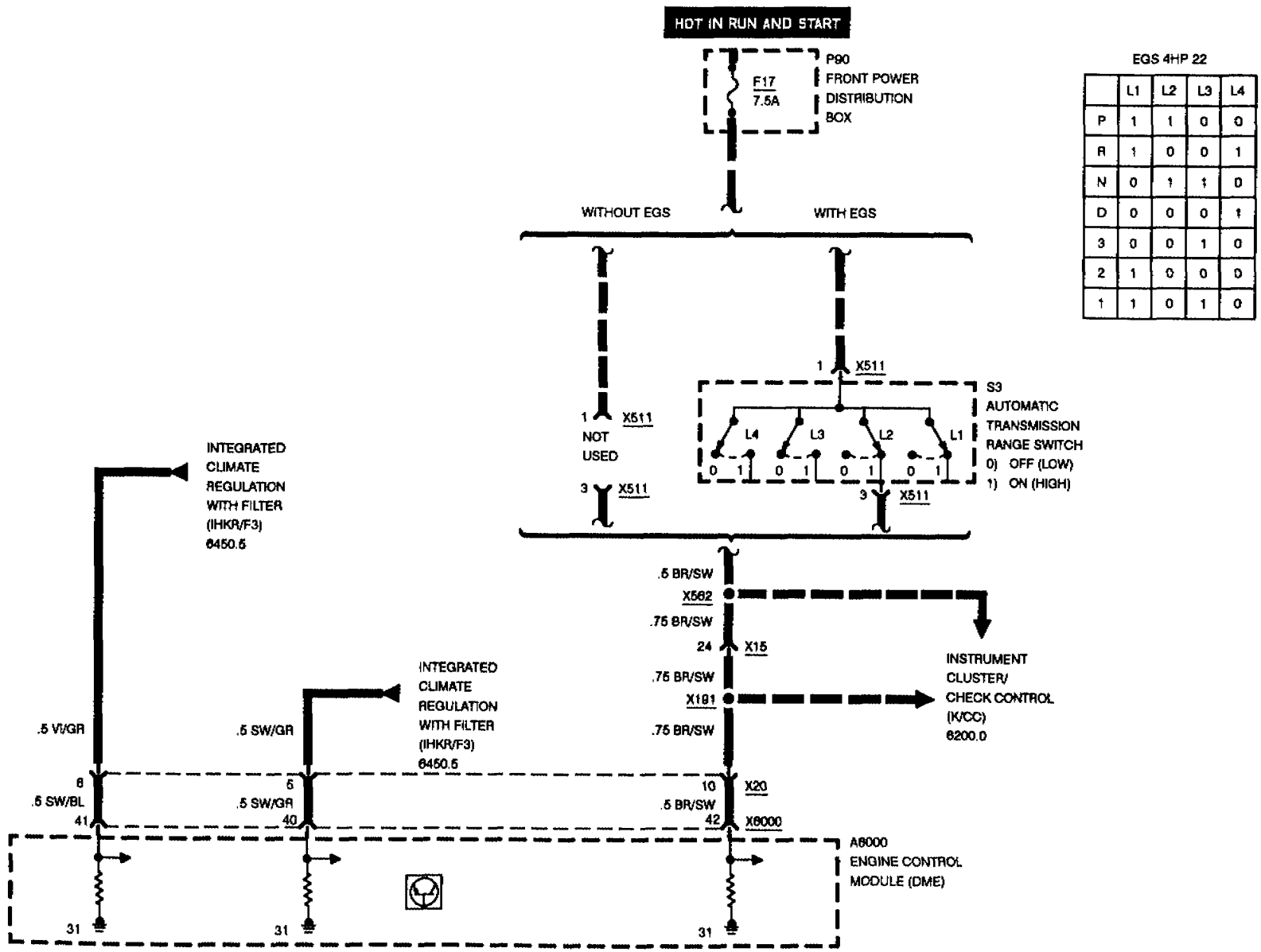
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



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

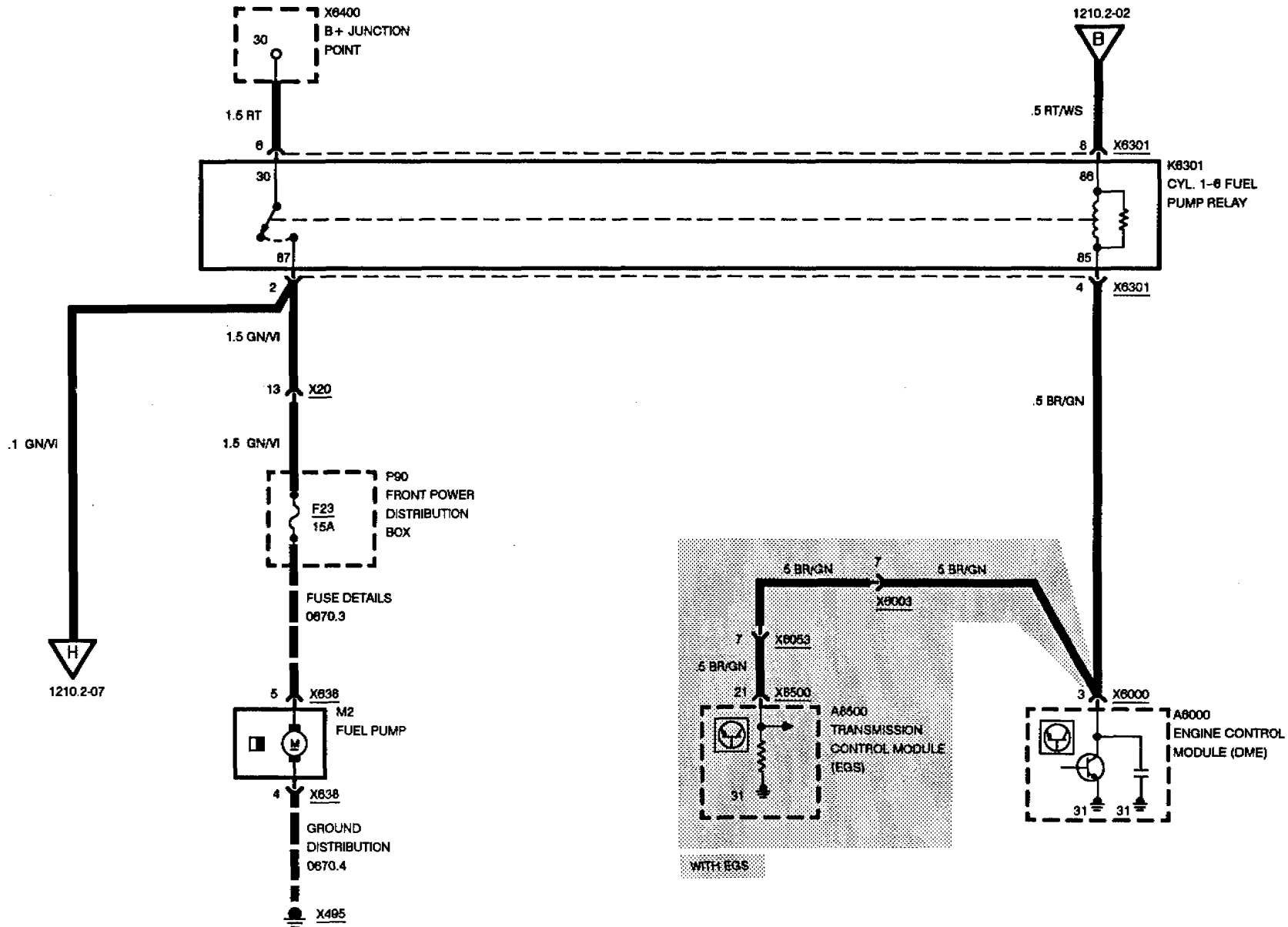


EGS 4HP 22

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

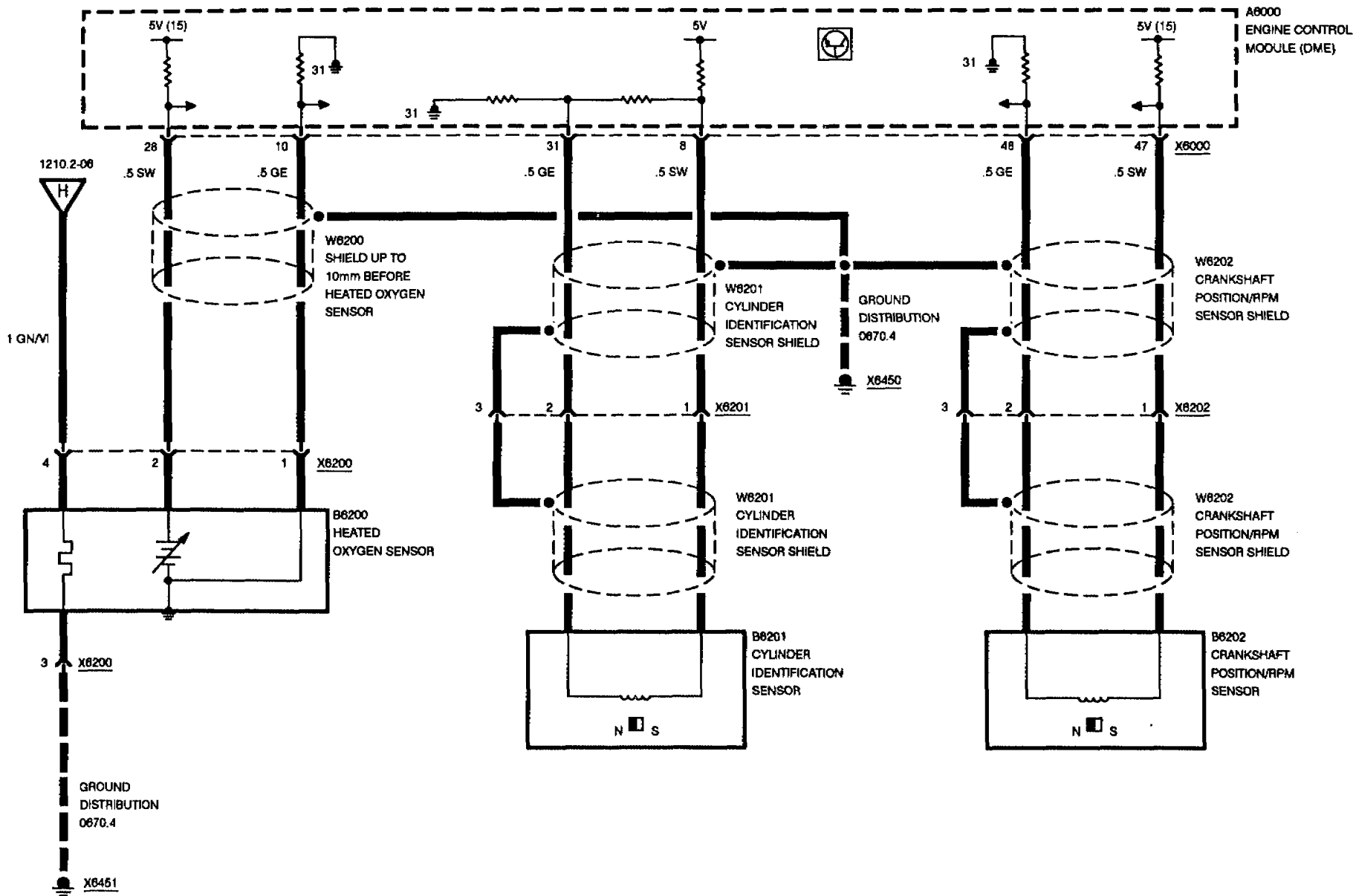
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



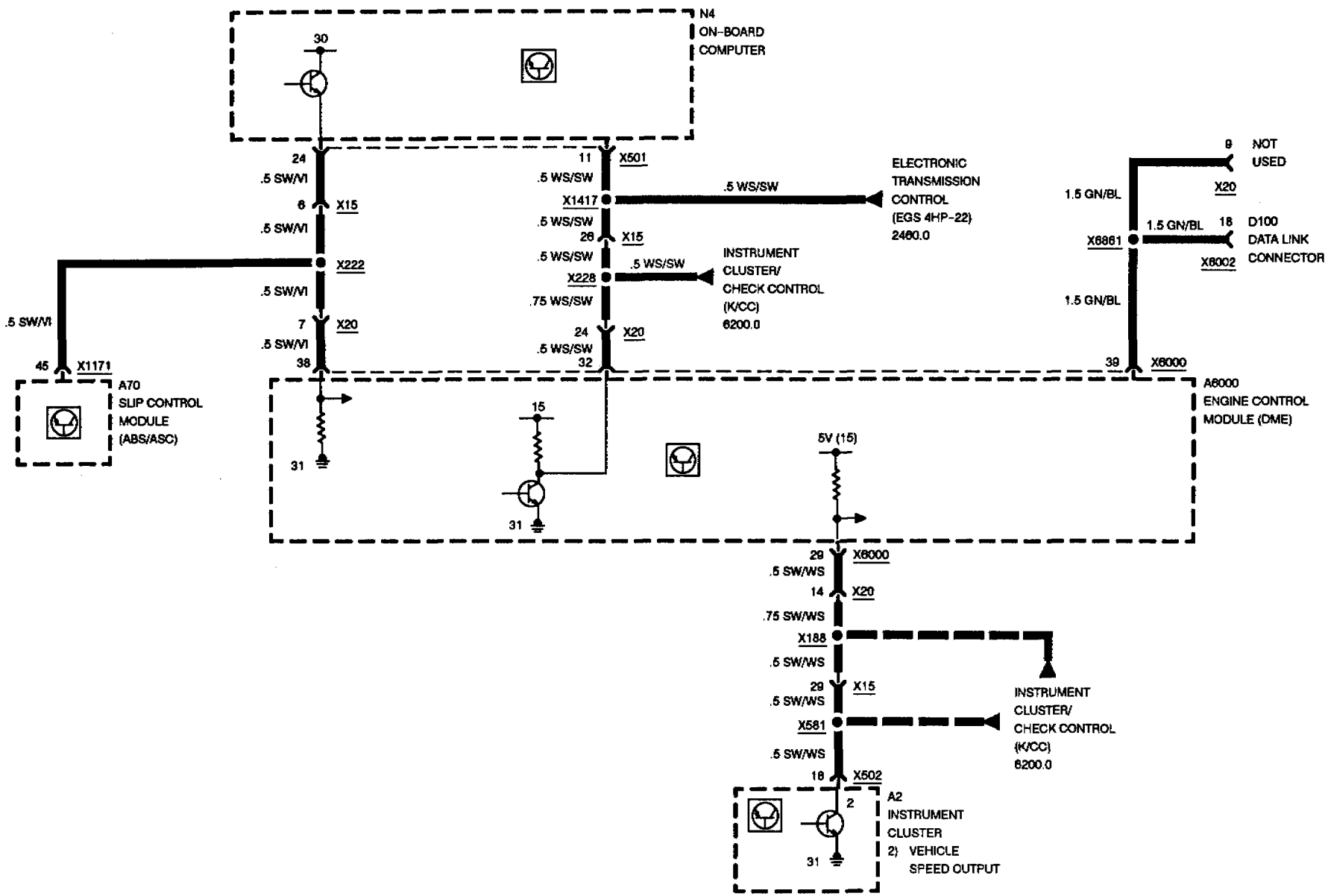
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



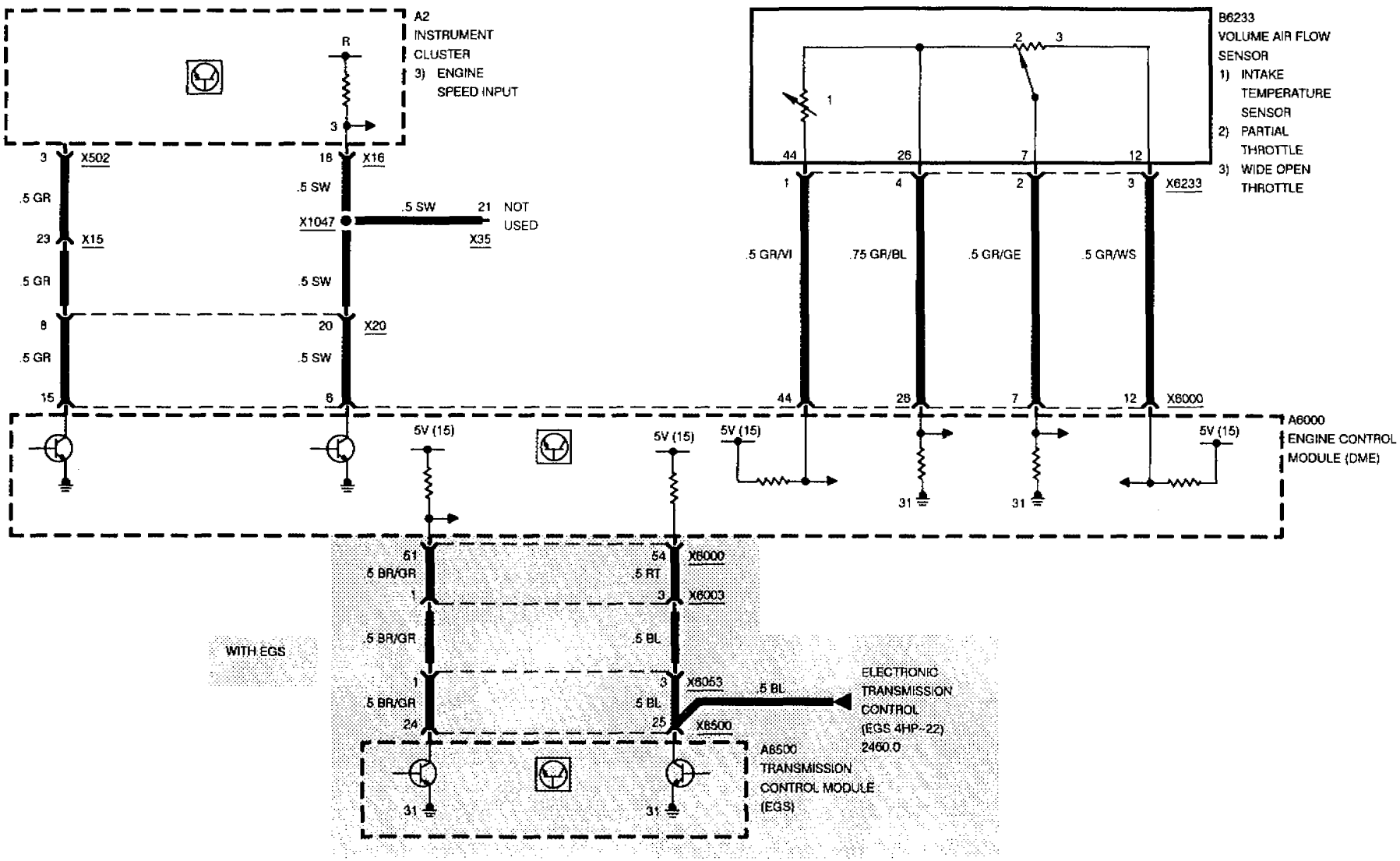
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ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



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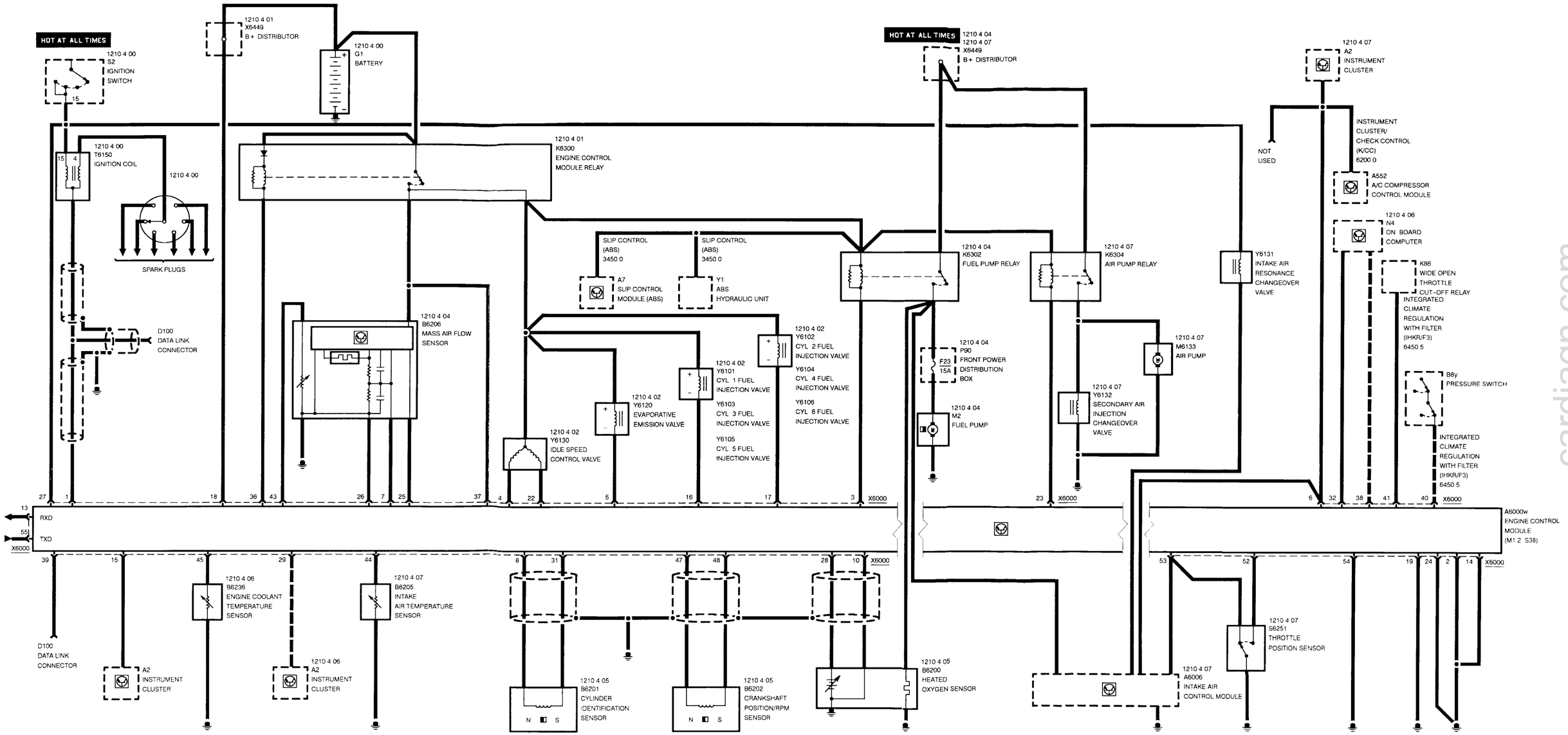
ENGINE CONTROL SYSTEM (DME M1.3, 6-CYLINDER M30)



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Pin Assignments

X6000

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Ignition terminal	Ignition coil	Primary signal	Oscilloscope	Engine test, test step 05
2	M	Ground	Ground point	Ground		
3	A	EKP relay and TR signal (crankshaft reference)	EKP relay and electronic transmission control unit	Ground with superimposed signal	ON	Can only be measured when crankshaft rotating
4	A	Idle speed actuator	Idle speed actuator	Pulsed ground		Component activation
5	A	Evaporative valve	Evaporative valve	Pulsed ground	CLOSED/OPEN	Perform component activation, ground = > closed
6	A	Engine speed signal	Instrument cluster	Square wave signal		One signal per ignition
7	E	Air flow meter signal	Air mass meter	0...5 V	Load signal ms	See status monitoring
8	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection B)		ON/OFF	See status monitoring
9		Not used				
10	M	Ground, oxygen sensor	Oxygen sensor	Ground		
11		Not used				
12		Not used				
13	E	RxD diagnostic data line	Diagnostic socket	> 10 V		When cover of diagnostic connector closed

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
14	M	Ground, injection valves	Ground point	Ground		
15	A	Indicator "Check engine"	Instrument cluster	Ground		Comes on if emission related error code is stored, and comes on during starting
16	A	Injection valves cyl. (1+3+5)	Injection valve	Pulsed ground	Injection time ti	Ground = > injector valves open, see component activation
17	A	Injection valves cyl. (2+4+6)	Injection valve	Pulsed ground	Injection time ti	Ground = > injector valves open, see component activation
18	E	Hot at all times	Terminal 30	> 10 V		
19	M	Ground for electronics and sensor shields	Ground point	Ground		
20		Not used				
21		Not used				
22	A	Idle speed actuator	Idle speed actuator	Pulsed ground		See component activation
23	A	Air pump relay signal	Air pump relay	Ground		Ground = > Air pump on
24	M	Ground remaining output stages (except for ignition and injection valves)	Ground point	Ground		
25	A	Preheating	Air mass meter	Voltage plus for - 0,5 second		Signal stops 4 seconds after engine stops
26	M	Ground air flow meter	Air mass meter	Ground		
27	E	Ignition terminal 15	Ignition switch	> 10 V		

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DIGITAL ENGINE ELECTRONICS (DME 1.2, 6-CYLINDER S38)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
28	E	Oxygen sensor signal	Oxygen sensor	Pulsating voltage up to approx. 1 V	Voltage value	Can only be measured with the engine running at operating temperature
29	E	Vehicle speed sensor	Instrument cluster	Square wave signal	km/h	
30		Not used				
31	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection A)		ON/OFF	See status monitoring
32	A	ti Measuring signal (KVA signal)	Instrument cluster	Square wave signal	Multimeter function pulse duration	Oscilloscope
33		Not used				
34		Not used				
35		Not used				
36	A	DME main relay	DME main relay terminal 85	Ground	ON	Diagnosis not possible if not fitted, connect jumper at relay terminal 30 and 87
37	E	U-Batt from DME main relay	Main relay terminal 87	U-Batt	Voltage value	Perform status monitoring. Diagnosis not possible if signal not applied. Connect jumper terminal 30 and 87 on relay
38	E	Drive away protection	On-board computer	> 10 V		
39	E	Programming voltage	Diagnostic connector			Only activated for control unit programming
40	E	A/C compressor signal	Pressure switch, compressor relay		ON/OFF	
41	E	Auxiliary fan signal	Full load cutoff relay	12 V	ON/OFF	

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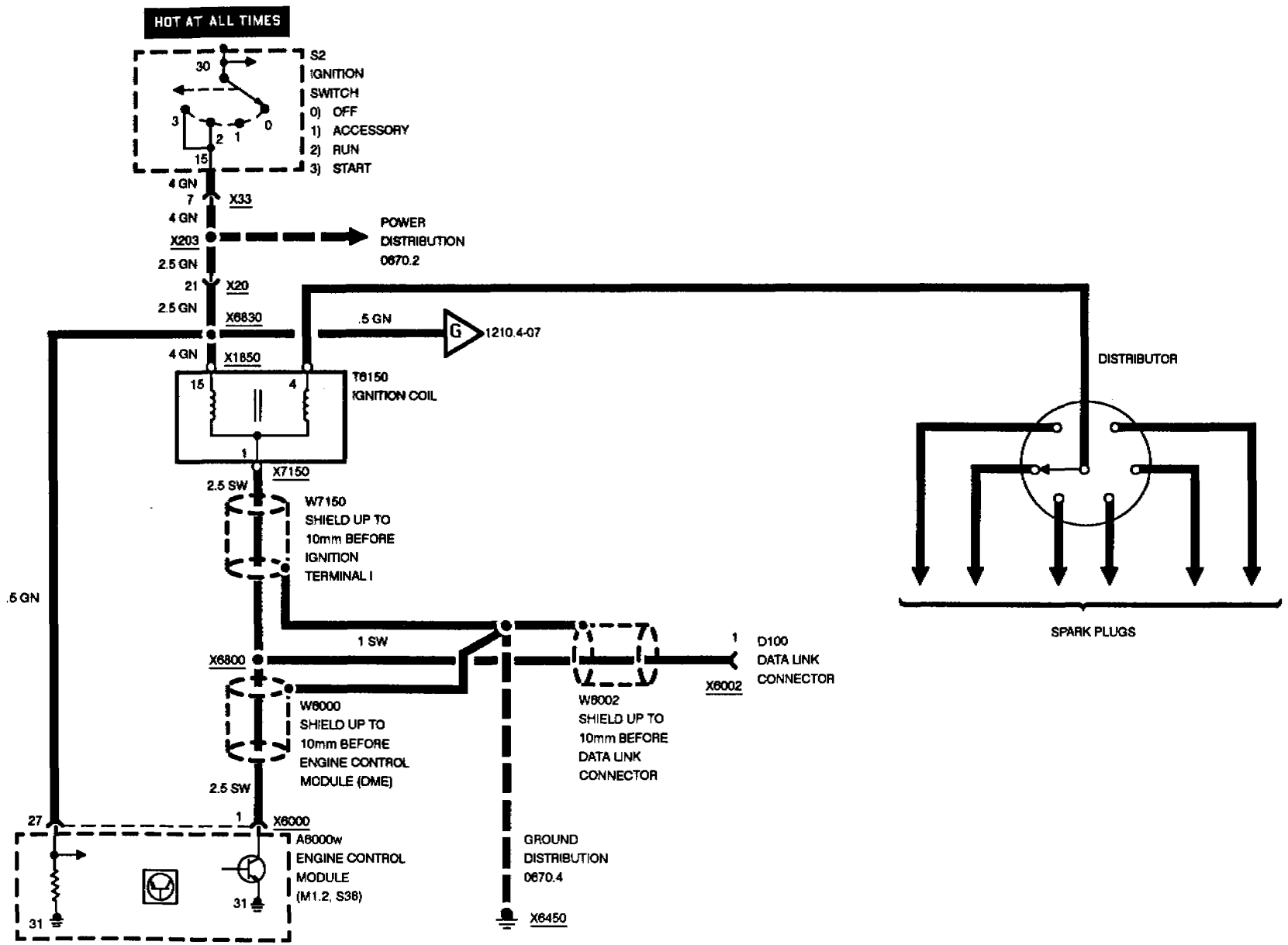
DIGITAL ENGINE ELECTRONICS (DME 1.2, 6-CYLINDER S38)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
42		Not used				
43	E	Idle CO potentiometer	Air mass meter	0...5 V	Voltage value	
44	E	Intake air temperature	Intake air temperature sensor	0...5 V	°C	Temperature dependent
45	E	Coolant temperature	Coolant temperature sensor	0...5 V	°C	Temperature dependent
46		Not used				
47	E	Inductive pulse generator (connection A)	Pulse generator, engine speed/crankshaft position	A/C voltage	Engine speed	Between Pins 47 and 48 (can only be measured with crankshaft rotation)
48	E	Inductive pulse generator (connection B)	Pulse generator, engine speed/crankshaft position	A/C voltage	Engine speed	Status monitoring at or above starting rpm
49		Not used				
50		Not used				
51		Not used				
52	E	Idle signal	Throttle switch	Ground	ON	See status monitoring on set idle speed
53	E	Full load signal VL	Throttle switch	Ground	ON	At full load (kick-down)
54	E	Coding signal	Fuel coding connector	Ground		
55	E/A	TxD diagnostic data line	Diagnostic socket	Ground		When cover of diagnostic connector closed

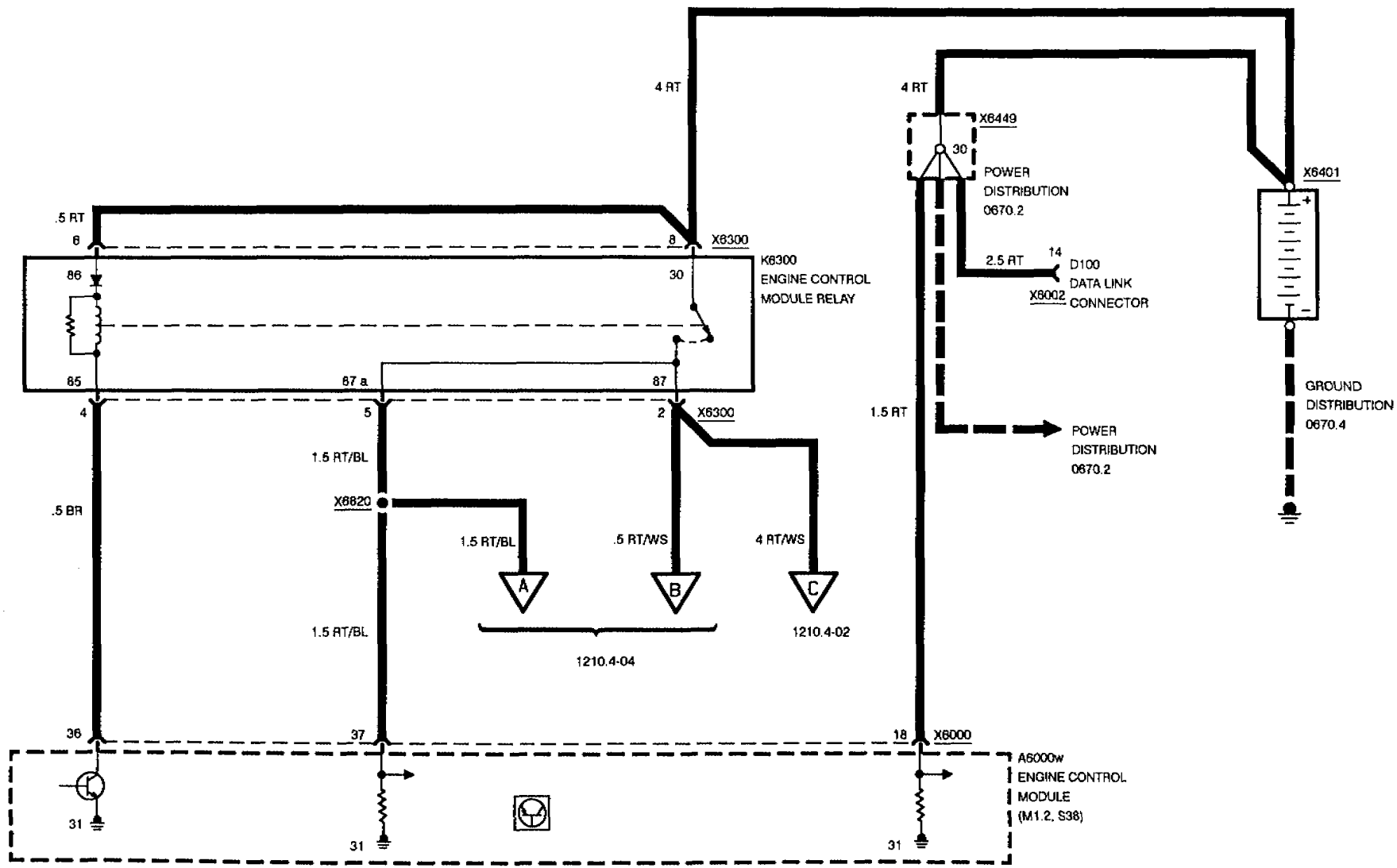
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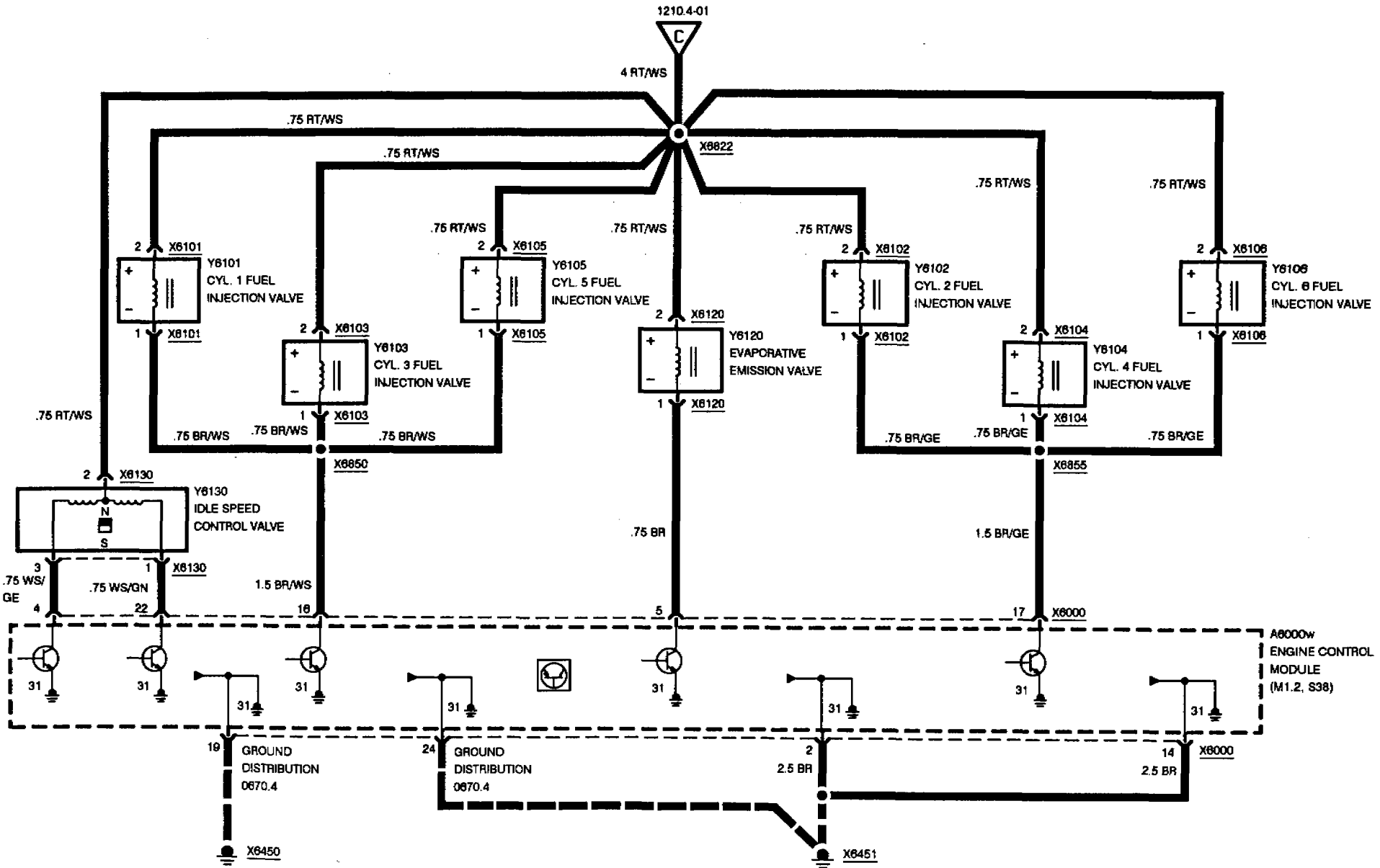
ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)



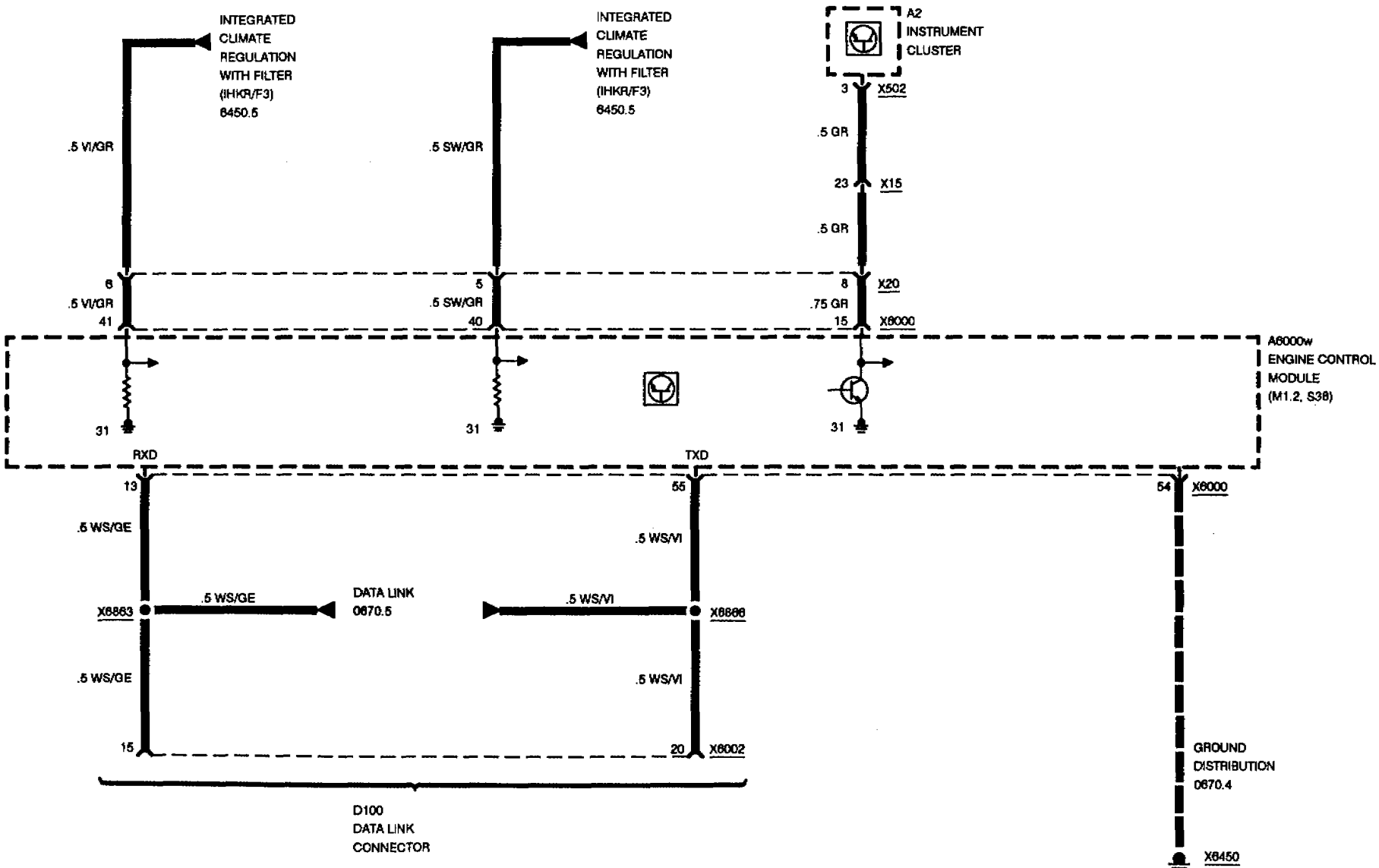
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4 RT
4 RT
X6449
30
POWER
DISTRIBUTION
0670.2
X6401
.5 RT
6
8
X6300
K6300
ENGINE CONTROL
MODULE RELAY
86
30
2.5 RT
14
D100
DATA LINK
X6002
CONNECTOR
85
87 a
87
GROUND
DISTRIBUTION
0670.4
4
5
2
X6300
1.5 RT
1.5 RT/BL
POWER
DISTRIBUTION
0670.2
.5 BR
X6820
1.5 RT/BL
.5 RT/WS
4 RT/WS
A
B
C
1.5 RT/BL
1210.4-02
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36
37
18
X6000
A6000w
ENGINE CONTROL
MODULE
(M1.2, S38)
31
31
31

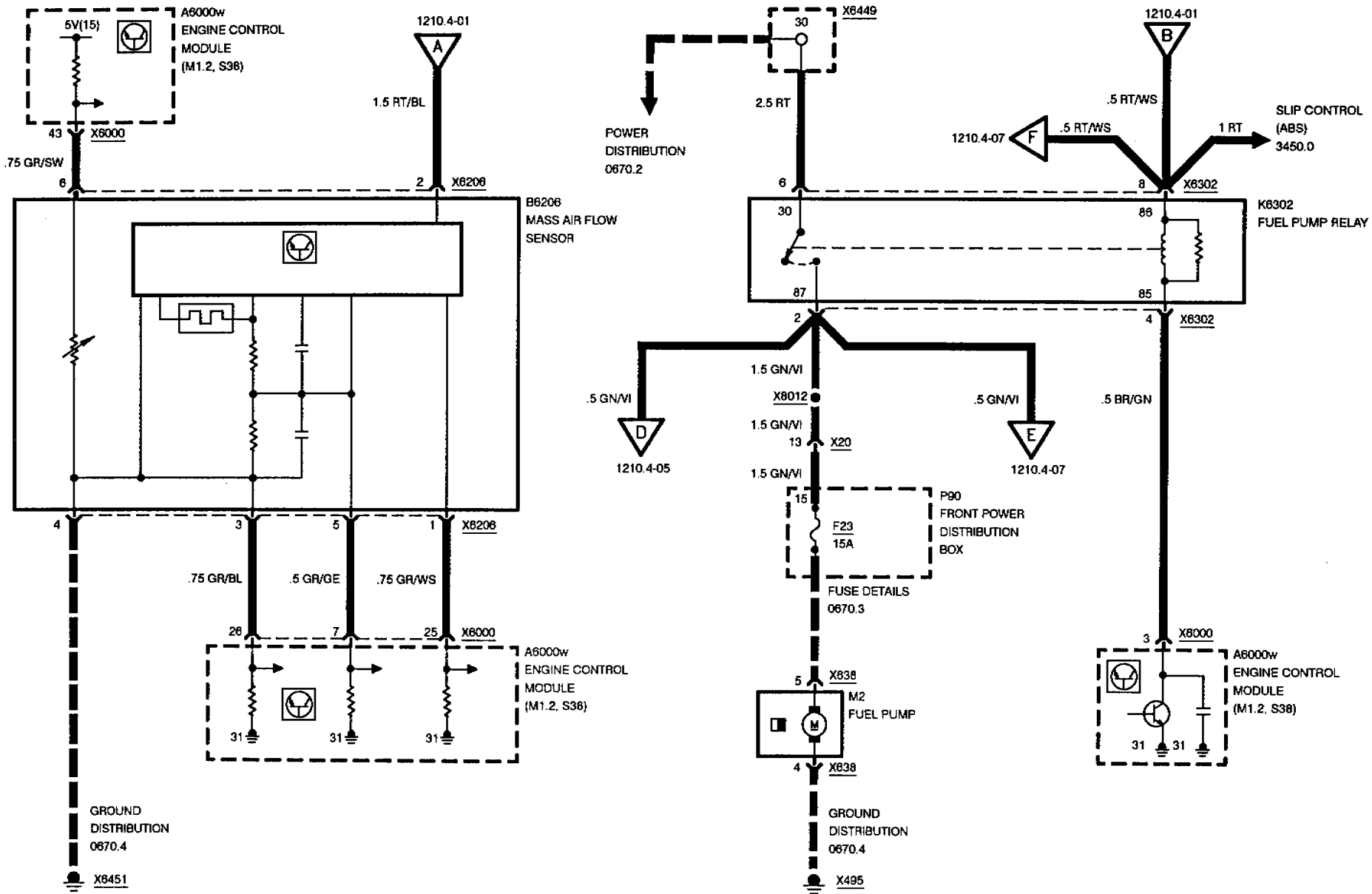
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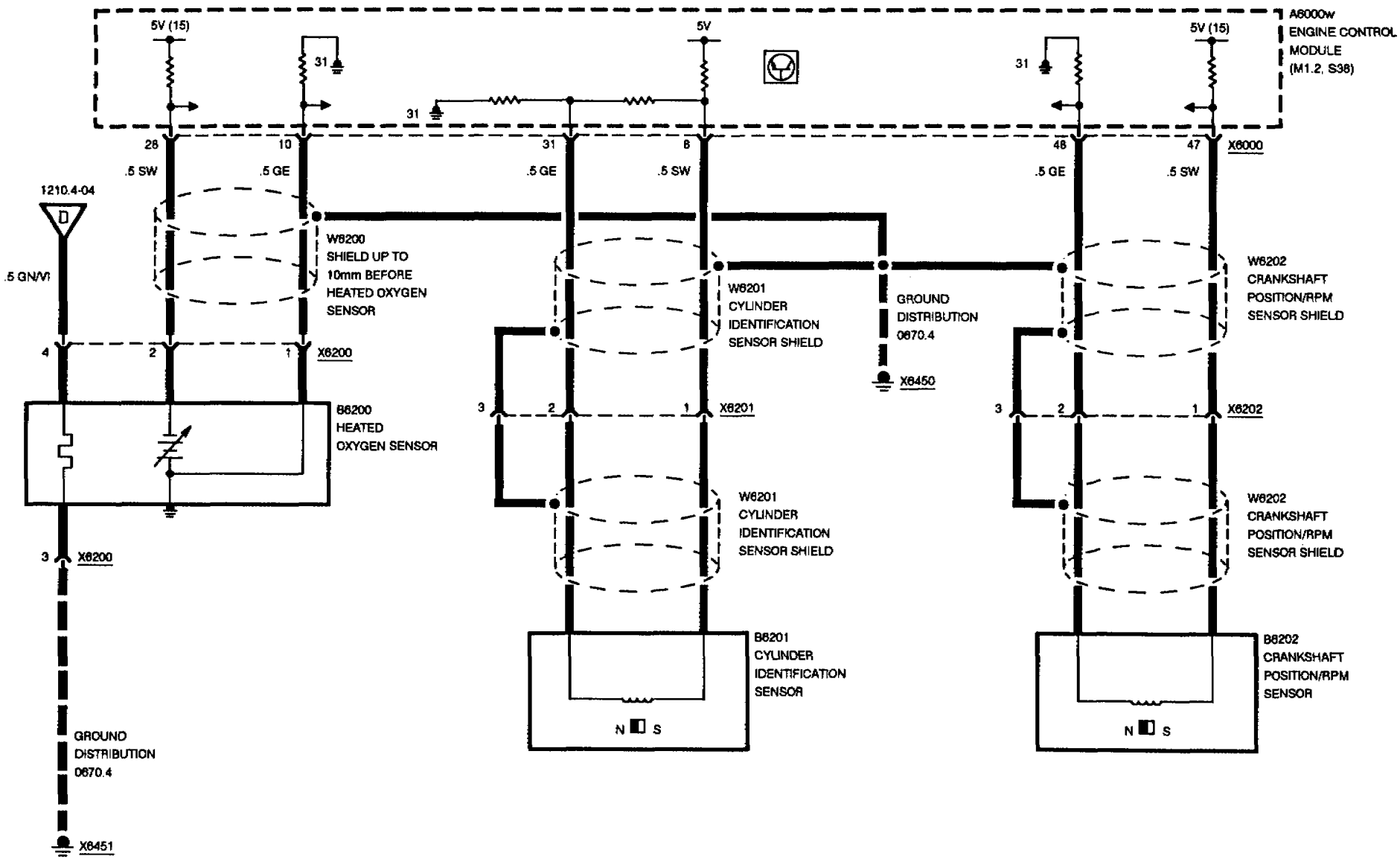
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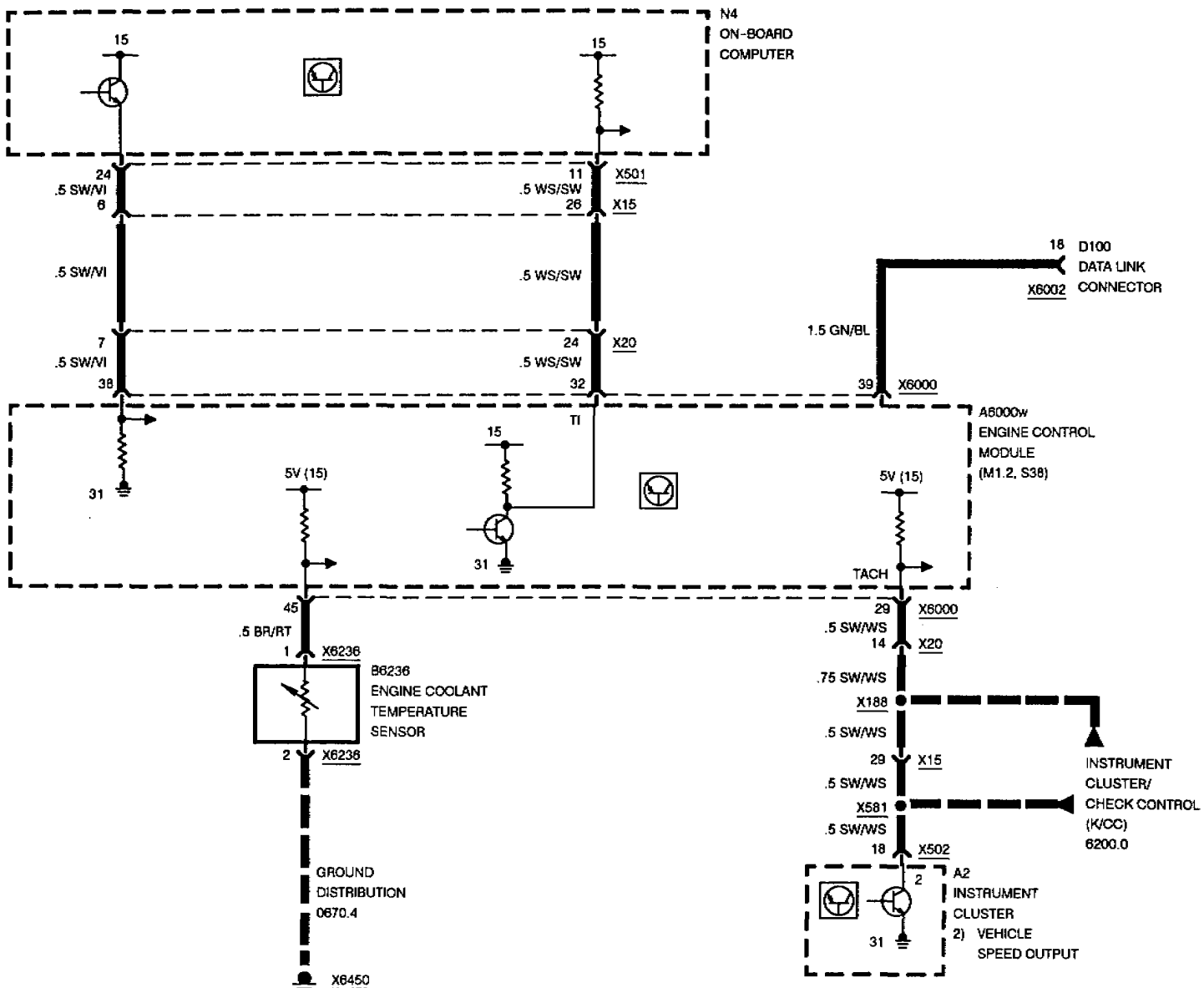
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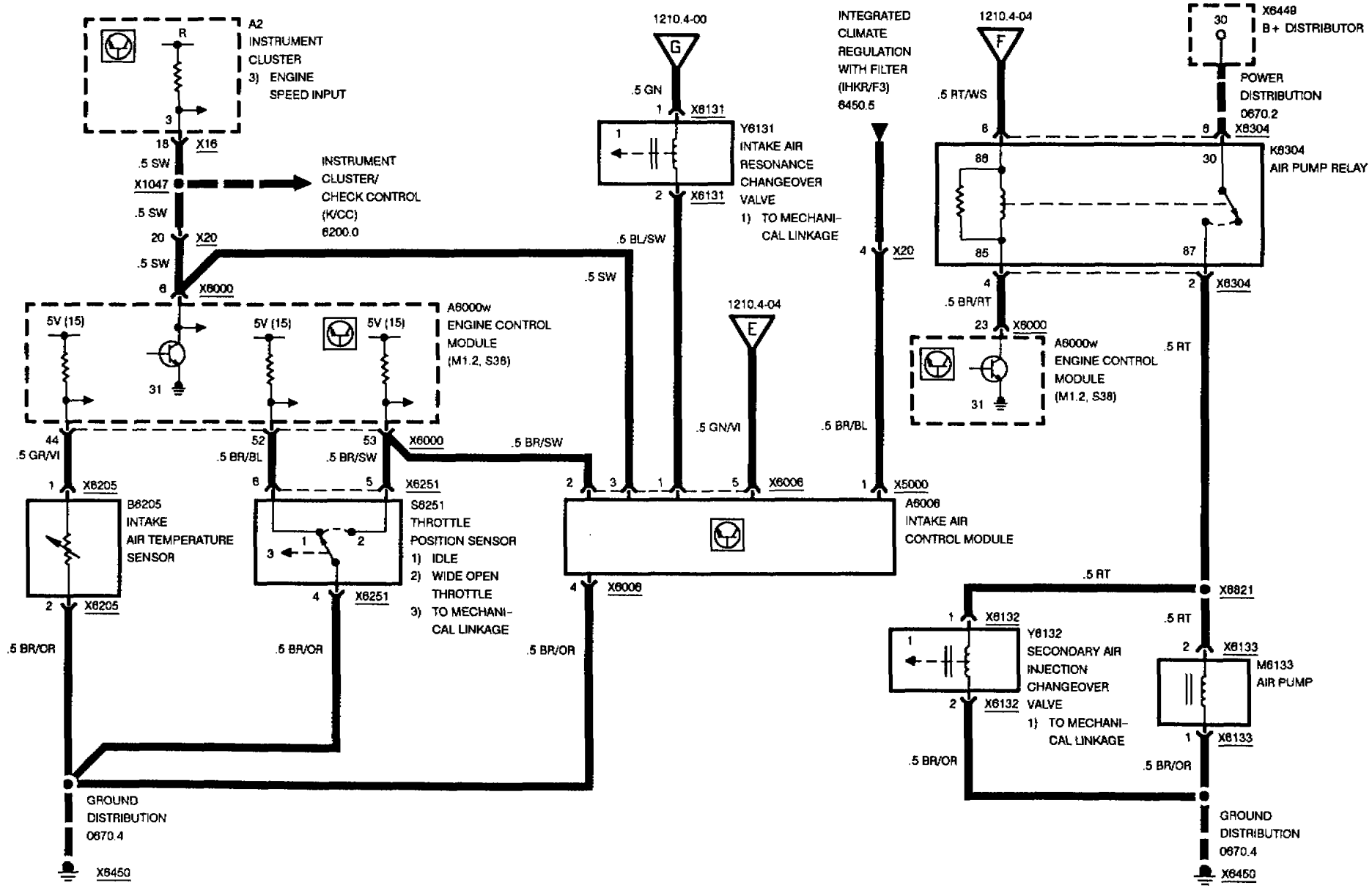


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N4
ON-BOARD
COMPUTER
15
15
24
.5 SW/VI
6
11
.5 WS/SW
26
X501
X15
.5 SW/VI
.5 WS/SW
18
D100
DATA LINK
X6002
CONNECTOR
1.5 GN/BL
7
.5 SW/VI
38
24
.5 WS/SW
32
X20
39
X6000
TI
A6000w
ENGINE CONTROL
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(M1.2, S38)
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5V (15)
5V (15)
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TACH
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X6236
29
X6000
.5 SW/WS
14
X20
B6236
ENGINE COOLANT
TEMPERATURE
SENSOR
.75 SW/WS
X188
.5 SW/WS
29
X15
INSTRUMENT
CLUSTER/
CHECK CONTROL
(K/CC)
6200.0
2
X6236
.5 SW/WS
X581
.5 SW/WS
18
X502
GROUND
DISTRIBUTION
0670.4
2
A2
INSTRUMENT
CLUSTER
2) VEHICLE
SPEED OUTPUT
31
X6450

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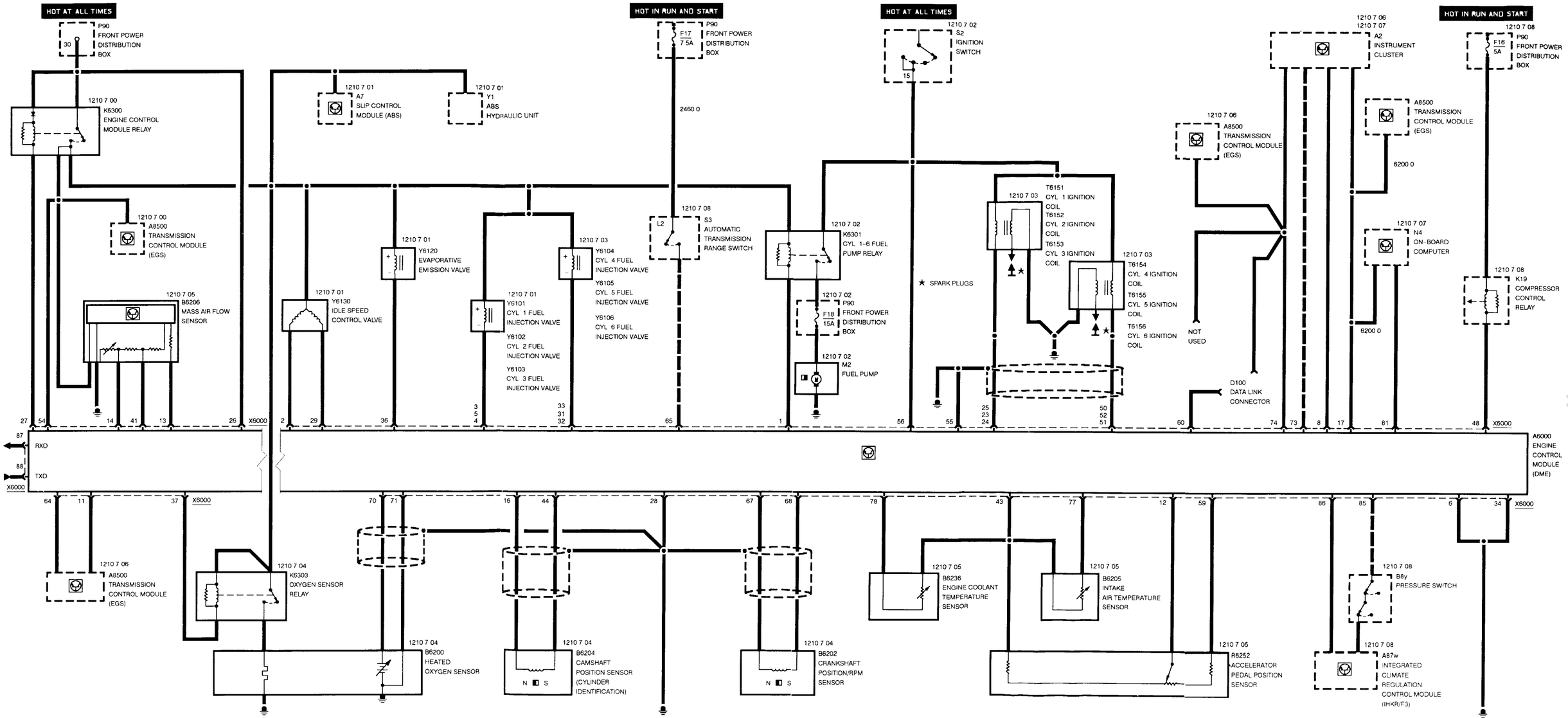
ENGINE CONTROL SYSTEM (DME M1.2, 6-CYLINDER S38)



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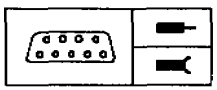
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Pin Assignments

X6000

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	EKP relay and TR signal (crankshaft reference)	EKP relay and EGS control unit torque converter clutch	Ground with super imposed engine speed signal	ON	Can only be measured with crankshaft rotating (the EKP relay does not switch if the TR signal is not applied)
2	A	Idle speed actuator	Idle speed actuator	Pulsed ground		See status monitoring
3	A	Injection valve cyl. 1	Injection valve (EV) 1	Pulsed ground	Injection time ti	Ground = > injector valve open, see component activation
4	A	Injection valve cyl. 3	Injection valve (EV) 3	Pulsed ground	Injection time ti	Ground = > injector valve open, see component activation
5	A	Injection valve cyl. 2	Injection valve (EV) 2	Pulsed ground	Injection time ti	Ground = > injector valve open, see component activation
6	M	Ground, EV output stages	Ground point	Ground		
7		Not used				
8	A	Defect lamp (US only)	Instrument cluster	Ground		Comes on if emission related error code is stored, and comes on during starting
9		Not used				

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
10		Not used				
11	A	Throttle valve position	EGS control unit	Pulsewidth modulated	Voltage value	Depends on throttle valve position, oscilloscope
12	E	Throttle valve potentiometer	Throttle valve potentiometer	0.4–4.2V	Voltage value	Depends on throttle valve position
13	A	Preheating	Air mass meter	Voltage increase for approx. 0.5 sec		Signal stops 4 sec after engine stop
14	M	Ground, air mass meter	Air mass meter	Ground		
15		Not used				
16	E	Cylinder reference signal (ignition)	Cylinder reference sensor (connection B)	A/C voltage	Oscilloscope	One signal per camshaft revolution
17	A	ti measuring signal (KVA signal, fuel consumption signal)	Instrument cluster	Square wave signal	Multimeter function Pulse duration	Oscilloscope
18		Not used				
19		Not used				
20		Not used				
21		Not used				
22		Not used				
25	A	Ignition terminal 1	Ignition coil 2	Primary signal	Oscilloscope	Engine test, test step 05
25	A	Ignition terminal 1	Ignition coil 3	Primary signal	Oscilloscope	Engine test, test step 05
25	A	Ignition terminal 1	Ignition coil 1	Primary signal	Oscilloscope	Engine test, test step 05
26	E	Steady voltage, terminal 30	B + terminal point	> 10 V		Diagnosis not possible if not fitted

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DIGITAL ENGINE ELECTRONICS (DME M3.1, 6-CYLINDER M50)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
27	A	DME main relay	DME main relay terminal 85	Ground	ON	Diagnosis not possible if not fitted – connect jumper at relay terminal 30 and 87
28	M	Ground for electronics and shielding the sensors	Ground point	Ground		
29	A	Idle speed actuator	Idle speed actuator	Pulsed ground		Component activation
30		Not used				
31	A	Injection valve cyl. 5	Injection valve	Pulsed ground	Injection time ti	Ground = > Injector valves open, see component activation
32	A	Injection valve cyl. 6	Injection valve	Pulsed ground	Injection time ti	Ground = > Injector valves open, see component activation
33	A	Injection valve cyl. 4	Injection valve	Pulsed ground	Injection time ti	Ground = > Injector valves open, see component activation
34	M	Ground, remaining output stages (except for ignition and EV)	Ground point	Ground		
35		Not used				
36	A	Fuel evaporation control valve	TE valve	Pulsed ground	CLOSED/OPEN	Perform component activation, ground = > closed
37	A	Oxygen sensor heating	Oxygen sensor relay	Ground	ON	Ground = > Heating activated
38		Not used				
39		Not used				
40		Not used				
41	E	Signal air mass meter	Hot wire air mass meter	0...5 V	Load signal in ms	See status monitoring

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
42		Not used				
43	M	Ground for sensors	Temperature sensor	Ground		
44	E	Cylinder reference signal (ignition)	Cylinder reference sensor (connection A)	A/C voltage	Oscilloscope	One signal per camshaft revolution
45		Not used				
46		Not used				
47		Not used				
48	A	A/C compressor control	Compressor control relay	Ground		Ground = > Compressor OFF
49		Not used				
50	A	Ignition terminal 1	Ignition coil 4	Primary signal	Oscilloscope	Engine test, test step 05
51	A	Ignition terminal 1	Ignition coil 6	Primary signal	Oscilloscope	Engine test, test step 05
52	A	Ignition terminal 1	Ignition coil 5	Primary signal	Oscilloscope	Engine test, test step 05
53		Not used				
54	E	> 10 V from DME main relay	Main relay terminal 87	> 10 V	Voltage value	Perform status monitoring. Diagnosis not possible if signal not applied – connect jumper terminal 30 and 87 on relay
55	M	Ground, ignition	Ground point	Ground		
56	E	Ignition terminal 15	Ignition switch	> 10 V		
57		Not used				
58		Not used				
59	A	Component voltage	Throttle potentiometer	5 V		
60	E	Programming voltage	Diagnostic connector			Only activated for control unit programming

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DIGITAL ENGINE ELECTRONICS (DME M3.1, 6-CYLINDER M50)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
61		Not used				
62		Not used				
63		Not used				
64	E	Ignition timing intervention	EGS control unit	Ground	ON	Only active during gearshift
65	E	Drive range P/N switch	Transmission selector lever	Ground	ON	When position P/N
66		Not used				
67	E	Inductive pulse generator (connection B)	Pulse generator Engine speed/position	A/C voltage	Engine speed	Between Pins 67 and 68 (can only be measured with crankshaft rotating)
68	E	Inductive pulse generator (connection A)	Pulse generator Engine speed/position	A/C voltage	Engine speed	Between Pins 67 and 68 (can only be measured with crankshaft rotating)
69		Not used				
70	E	Oxygen sensor signal	Oxygen sensor	Pulsating voltage up to approx. 1 V	Voltage value	Can only be measured with engine running at operating temperature
71	M	Ground oxygen sensor	Oxygen sensor	Ground		
72		Not used				
73	E	Road speed signal	Instrument cluster	Square wave signal	km/h	Status monitoring
74		Engine speed signal TD	Instrument cluster	Square wave signal		One signal per ignition
75		Not used				
76		Not used				
77	E	Intake air temperature	Intake air temperature sensor	0...5 V	°C	Temperature-dependent

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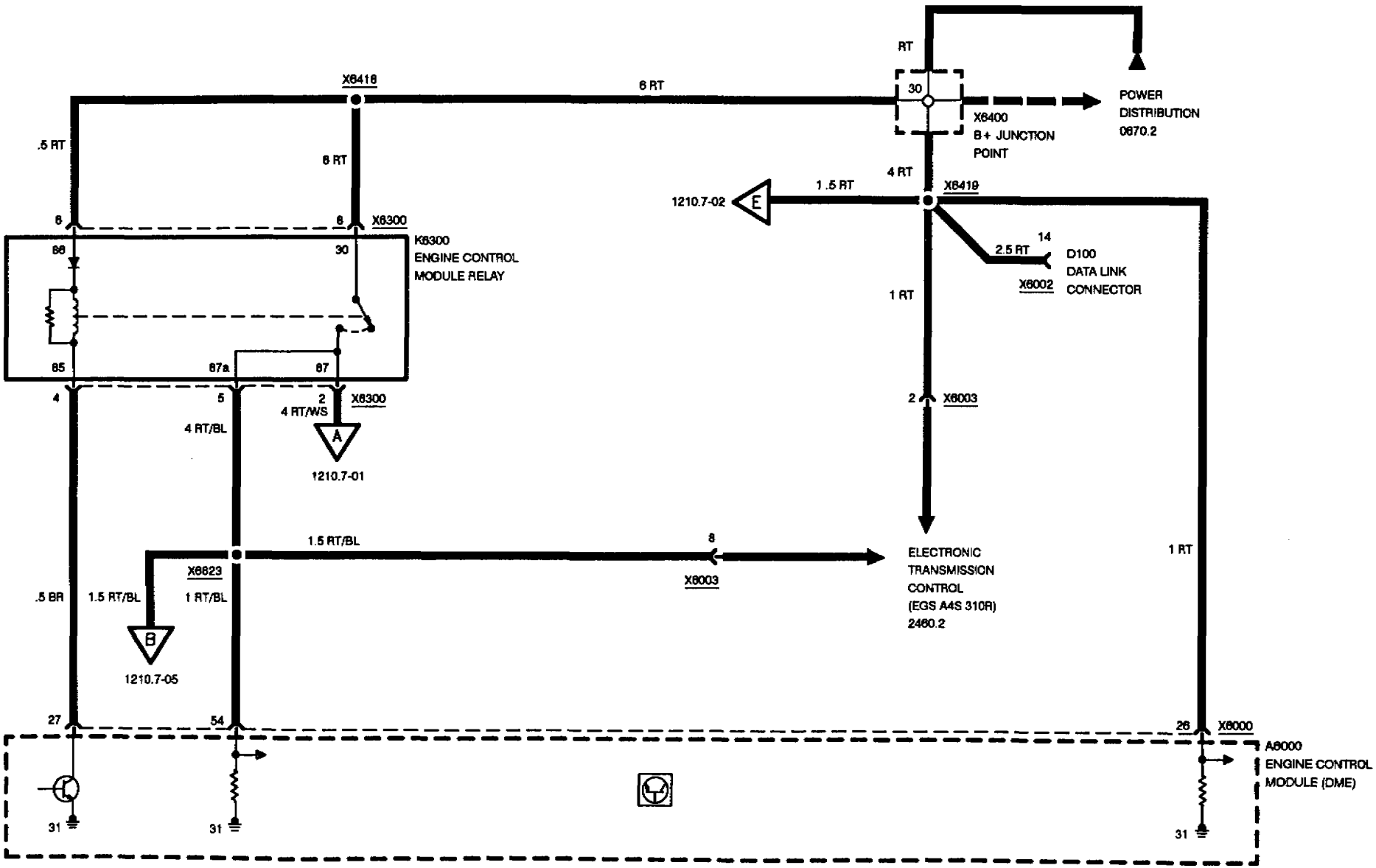
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
78	E	Engine temperature	Engine temperature sensor	0...5 V	°C	Temperature-dependent
79		Not used				
80		Not used				
81	E	Drive-away protection	On-board computer	> 10 V		
82		Not used				
83		Not used				
84		Not used				
85	E	Pressure signal	Pressure switch			
86	E	Compressor signal	IHKR control unit			
87	E	RxD diagnostic data line	Diagnostic connector	> 10 V		When cover of diagnostic connector closed
88	E/A	TxD diagnostic data line	Diagnostic connector	Ground		When cover of diagnostic connector closed

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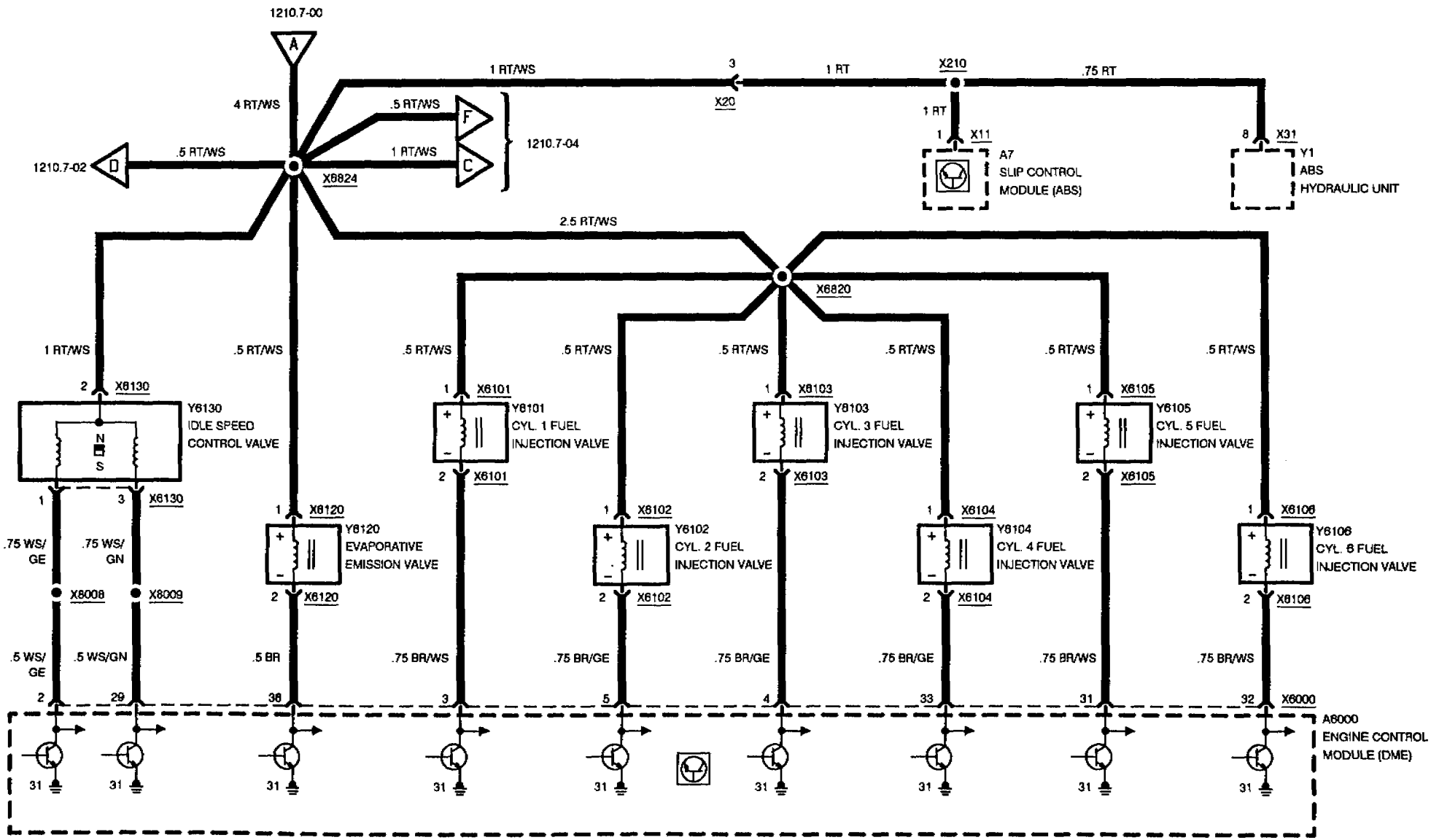
ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

POWER



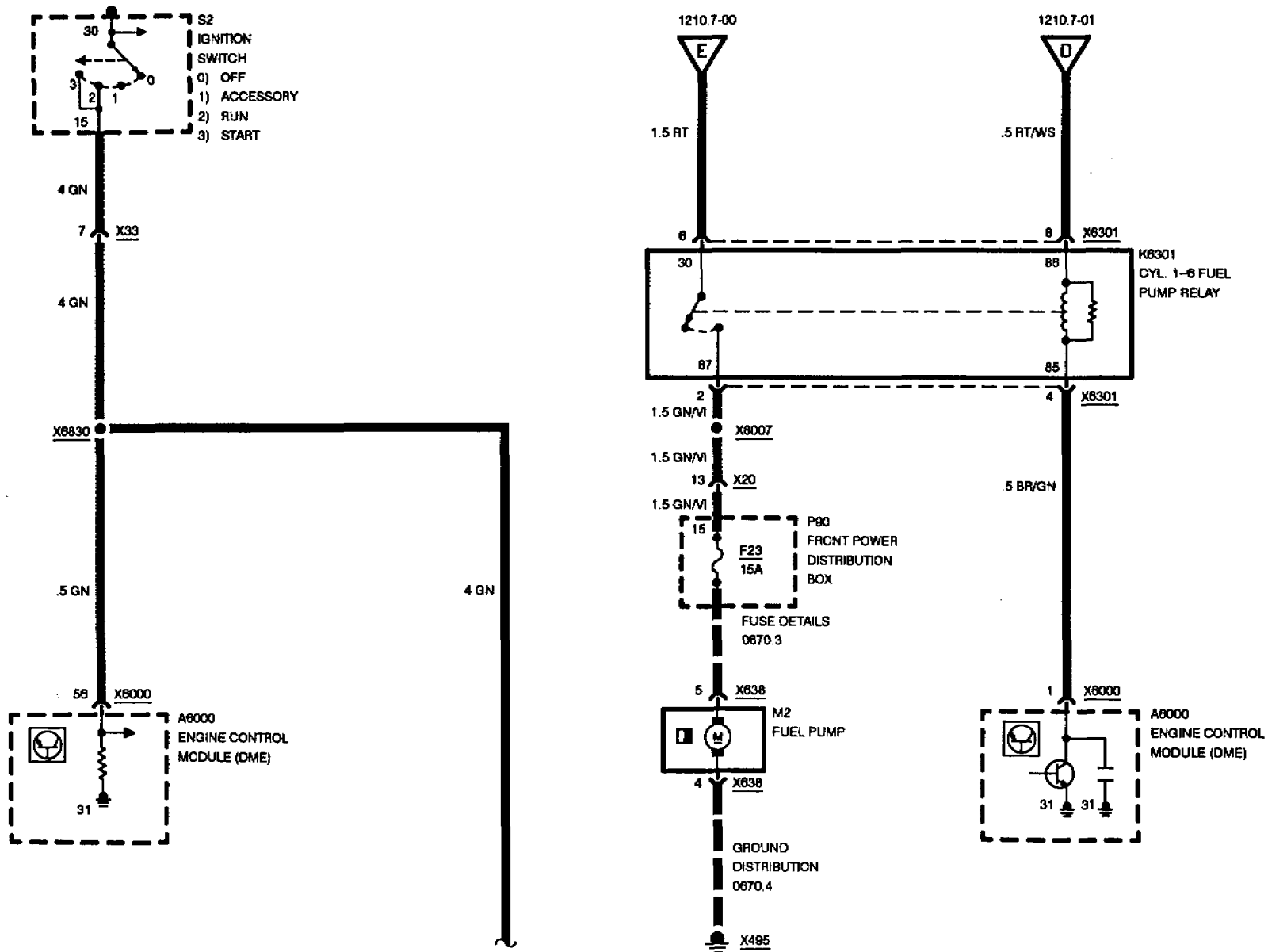
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ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

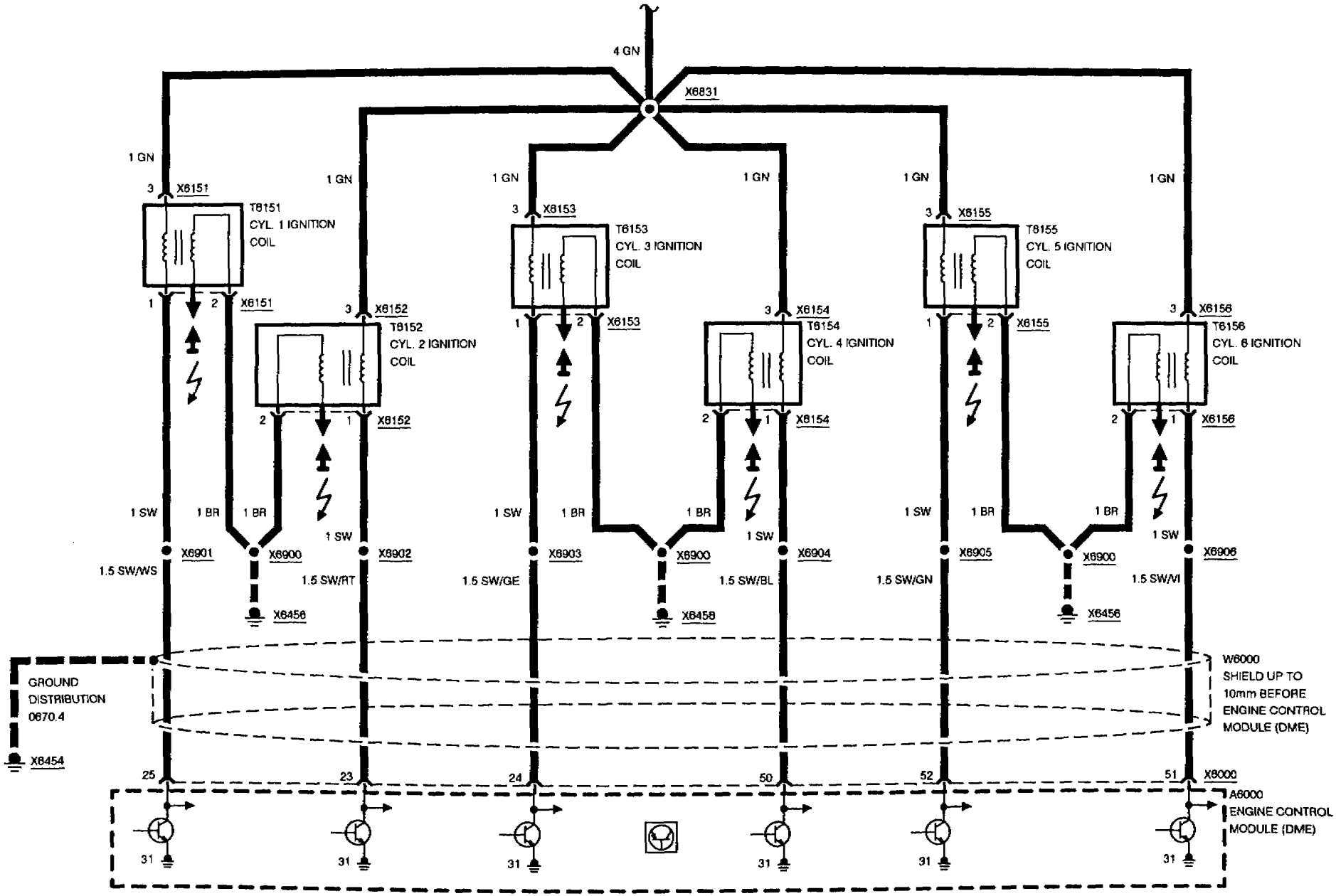


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ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

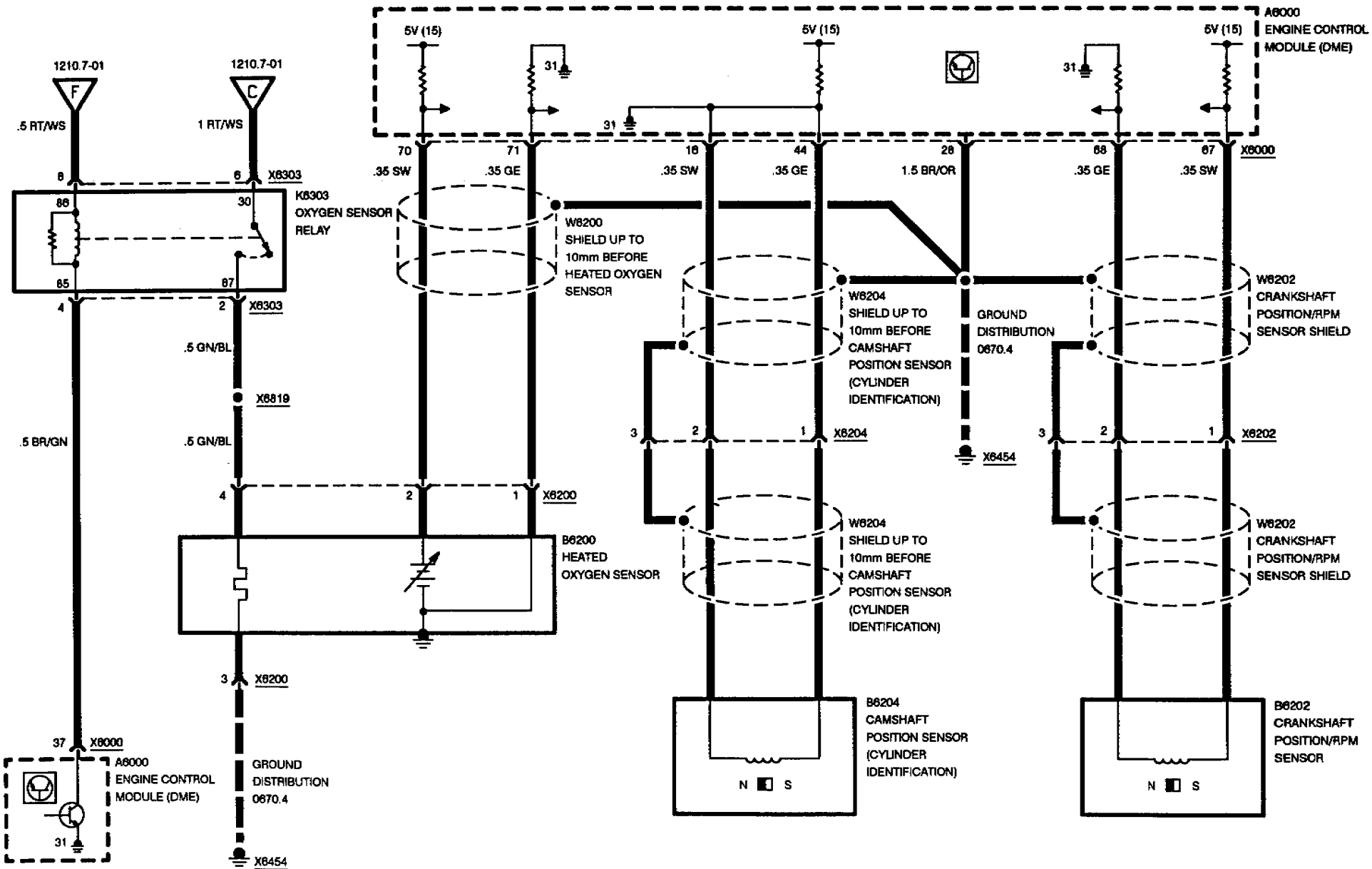


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4 GN
X6831
1 GN
3 X6151
T6151
CYL. 1 IGNITION
COIL
1 2 X6151
1 GN
3 X6152
T6152
CYL. 2 IGNITION
COIL
2 1 X6152
1 GN
3 X6153
T6153
CYL. 3 IGNITION
COIL
1 2 X6153
1 GN
3 X6154
T6154
CYL. 4 IGNITION
COIL
2 1 X6154
1 GN
3 X6155
T6155
CYL. 5 IGNITION
COIL
1 2 X6155
1 GN
3 X6156
T6156
CYL. 6 IGNITION
COIL
2 1 X6156
1 SW
1 BR
1 BR
1 SW
X6901
X6900
X6902
1.5 SW/WS
1.5 SW/RT
X6456
1 SW
1 BR
1 BR
1 SW
X6903
X6900
X6904
1.5 SW/GE
1.5 SW/BL
X6458
1 SW
1 BR
1 BR
1 SW
X6905
X6900
X6906
1.5 SW/GN
1.5 SW/VI
X6456
GROUND
DISTRIBUTION
0670.4
X6454
W6000
SHIELD UP TO
10mm BEFORE
ENGINE CONTROL
MODULE (DME)
25
23
24
50
52
51
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31
31
31
31
31
31

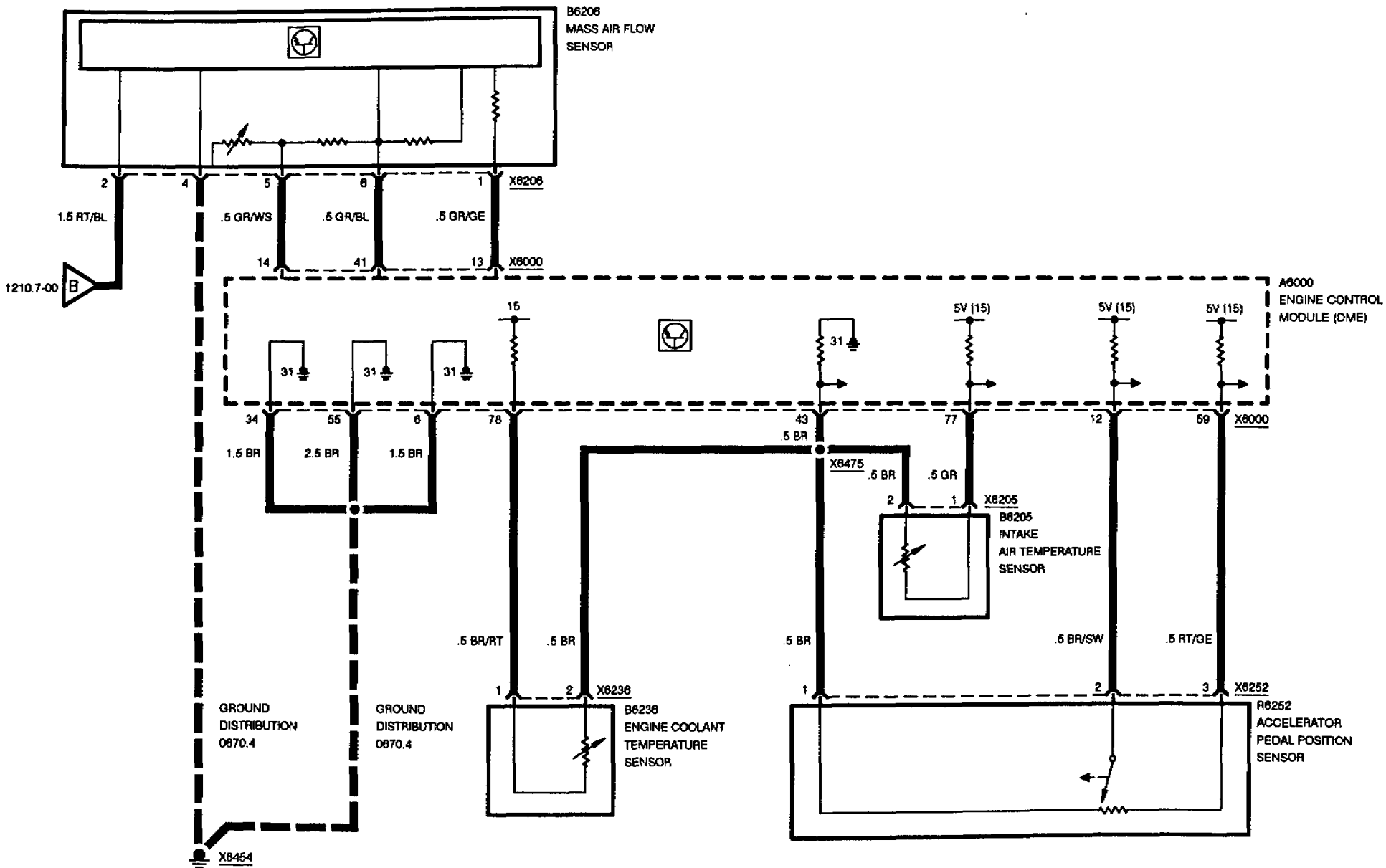
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ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)



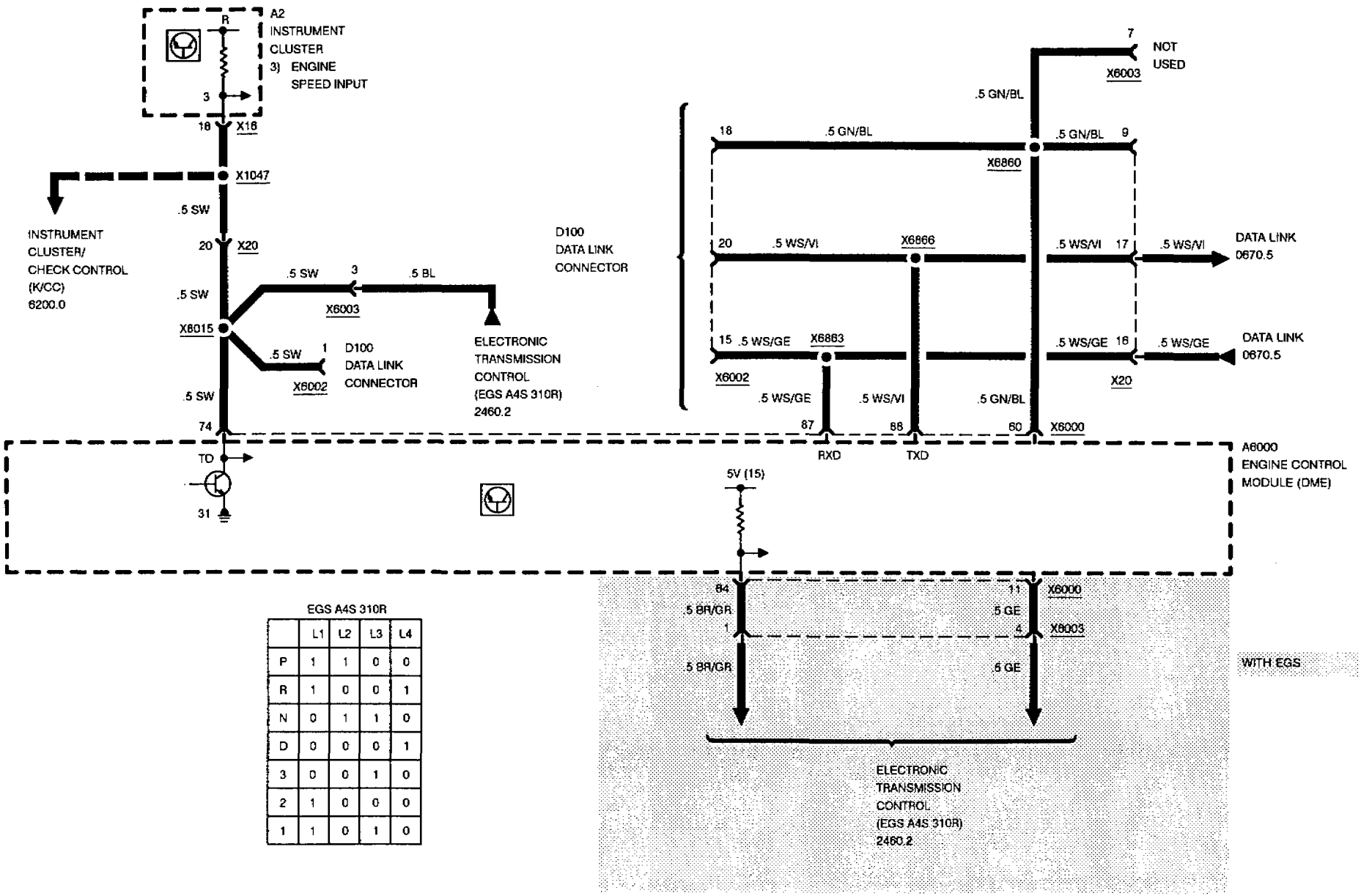
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ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)



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ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

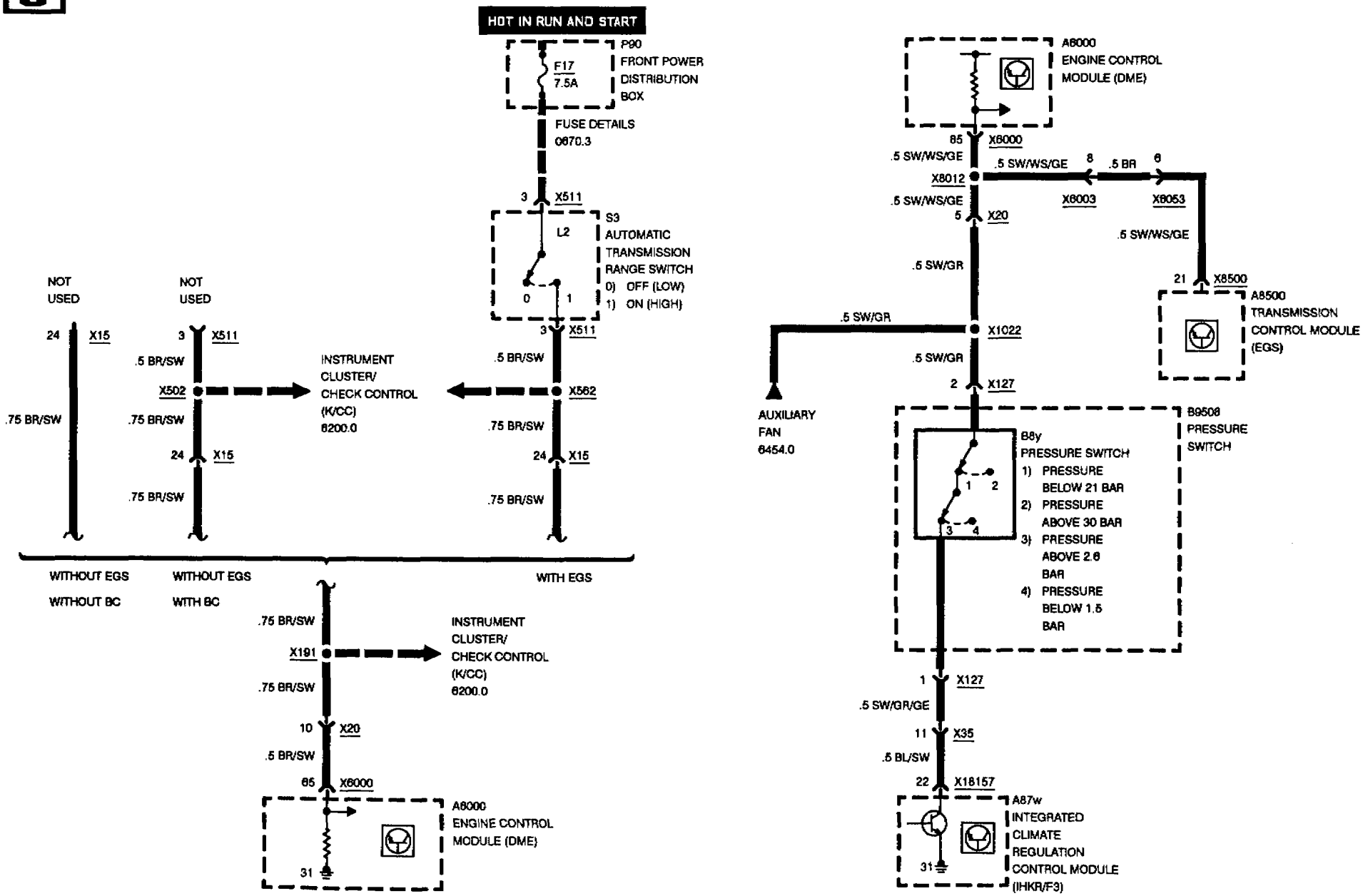


EGS A4S 310R

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

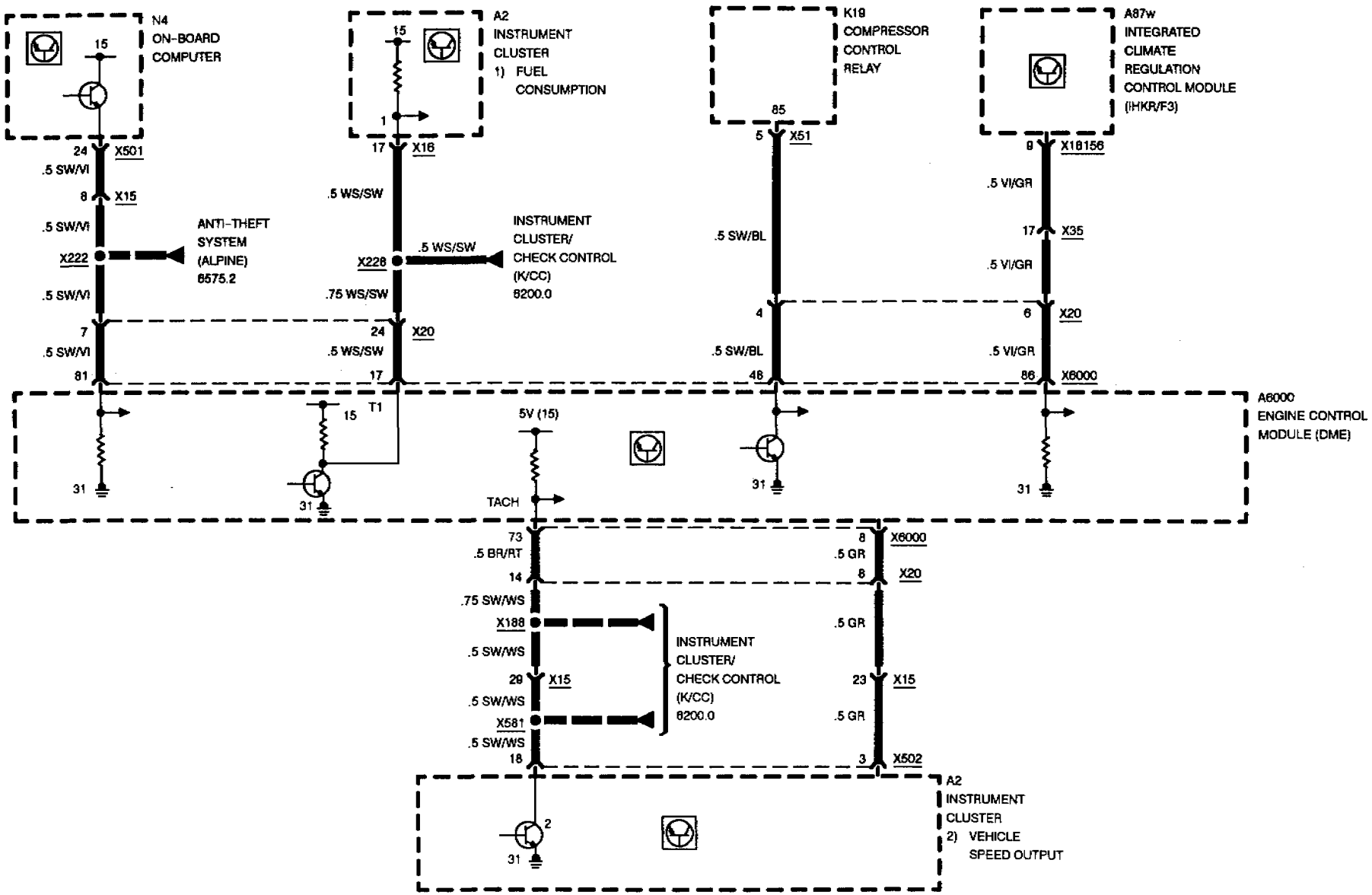
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ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)



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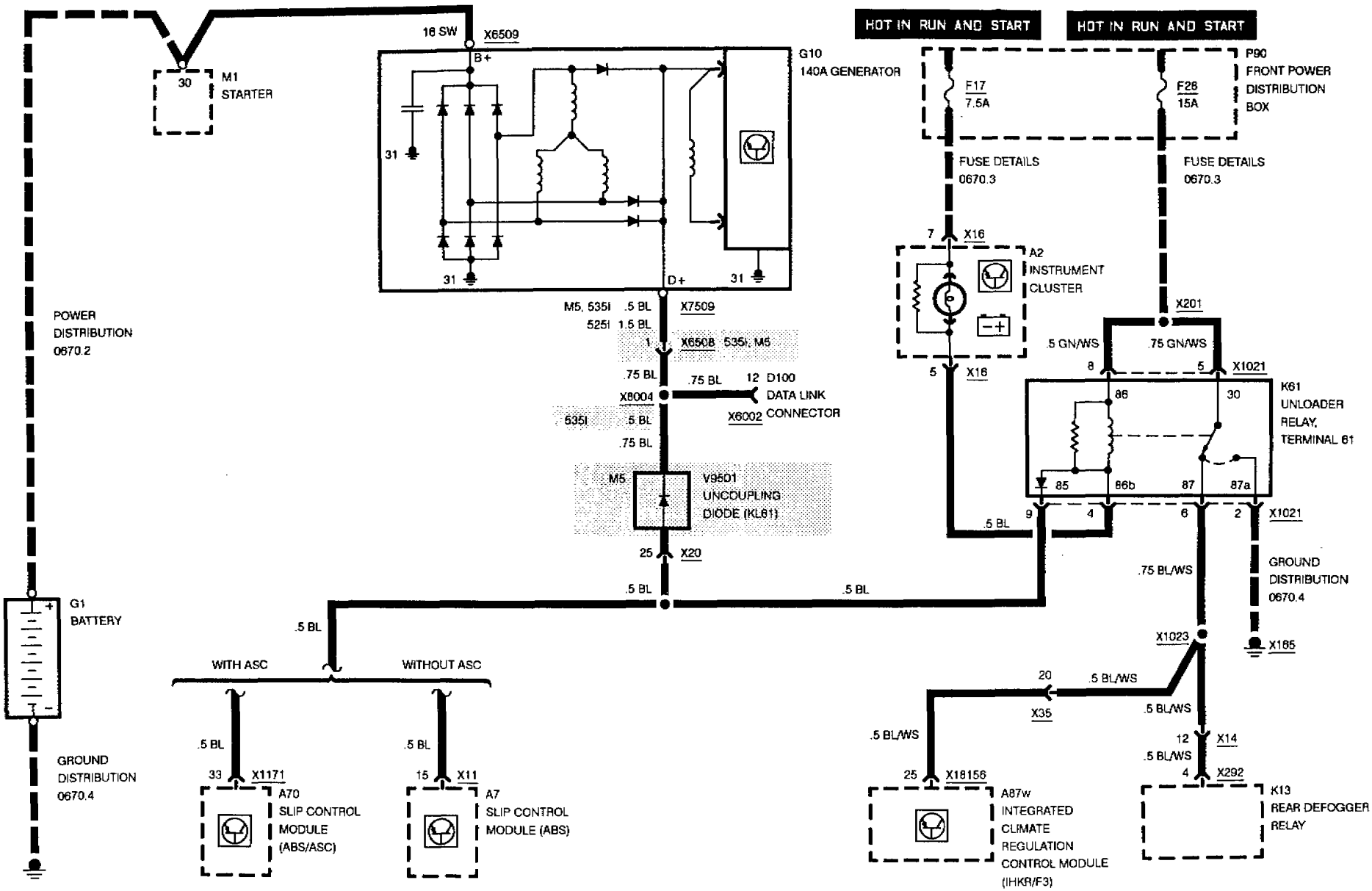
ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)



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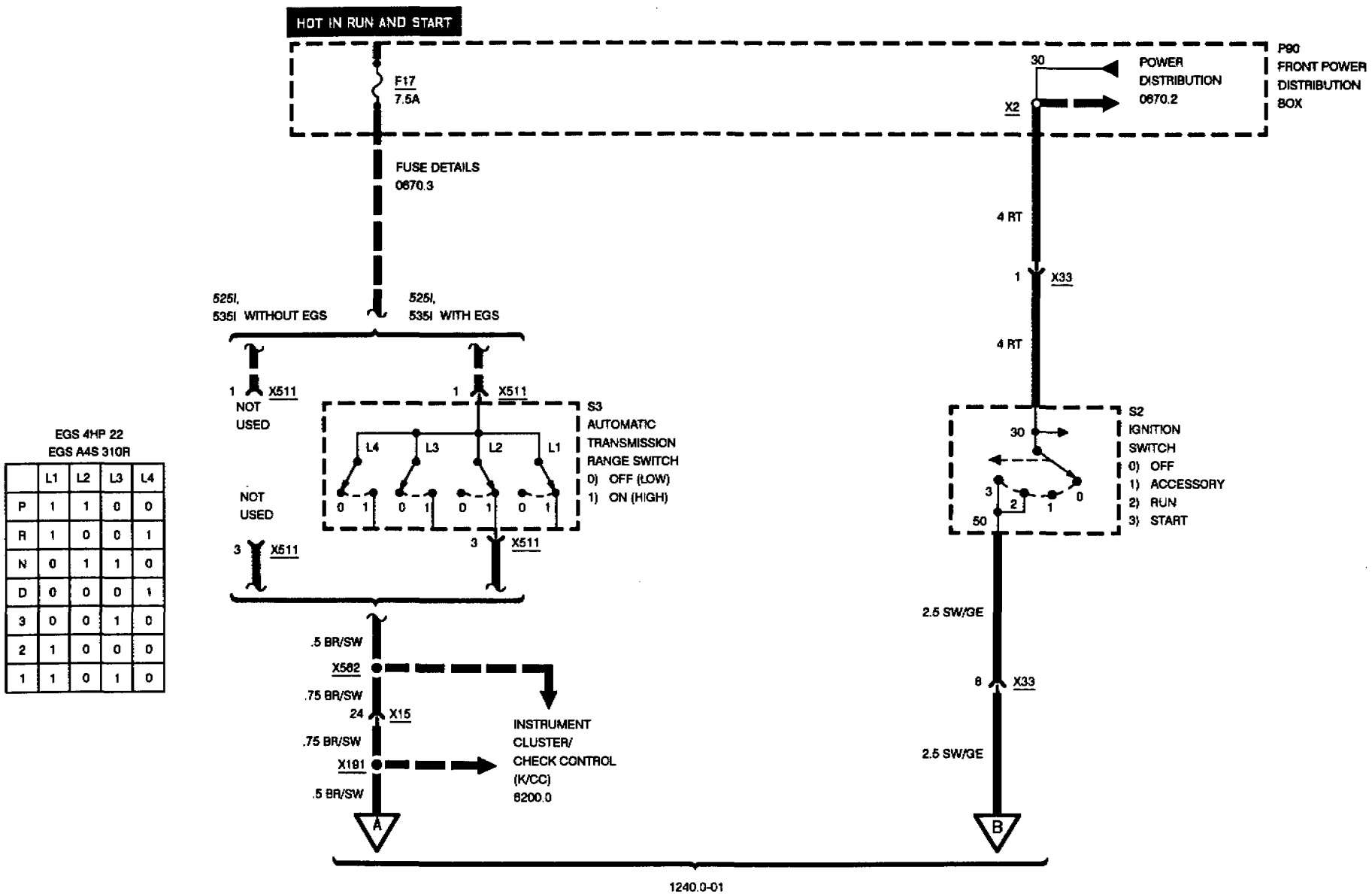
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CHARGING SYSTEM



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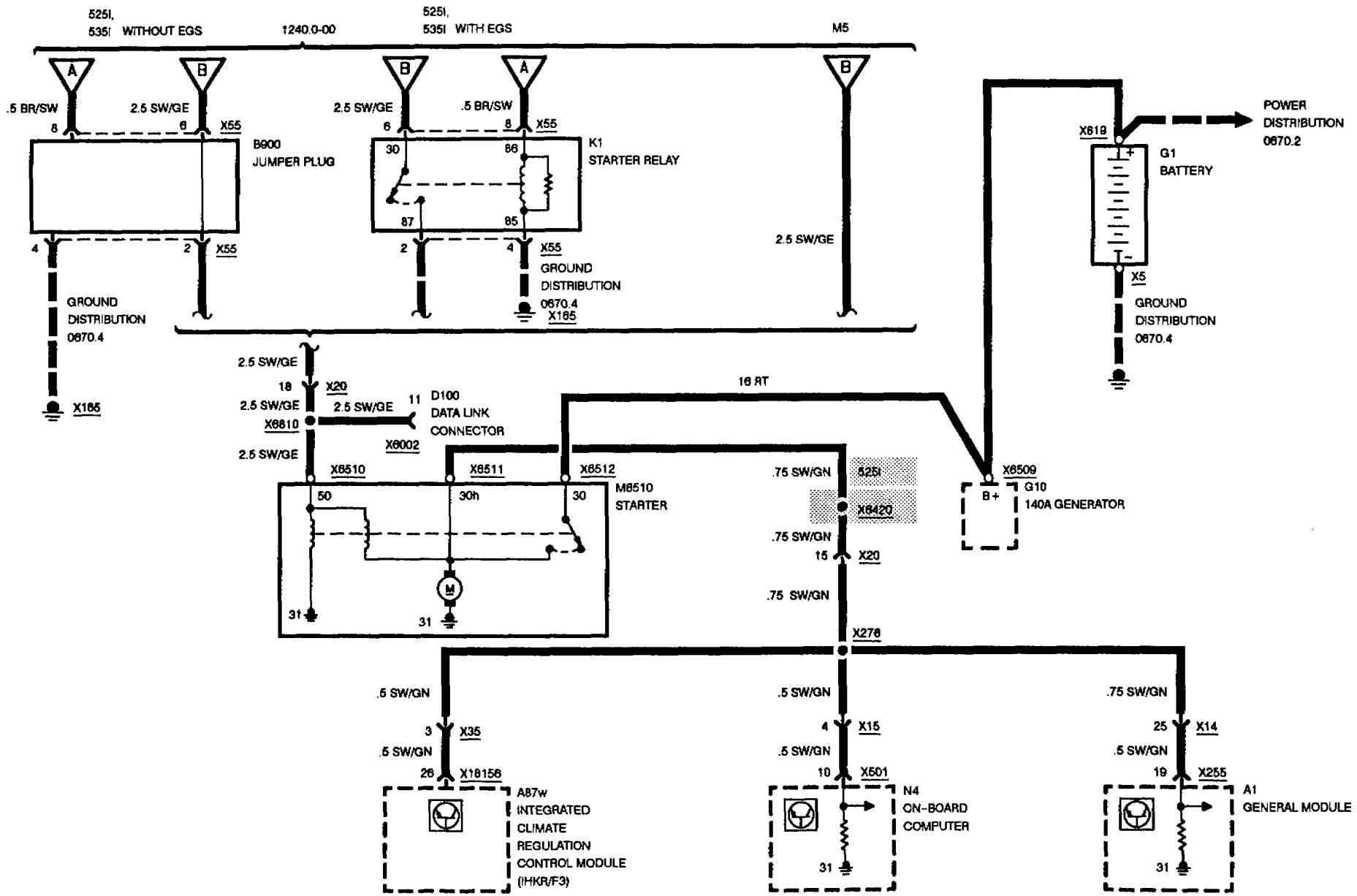
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EGS 4HP 22
EGS A4S 310R

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

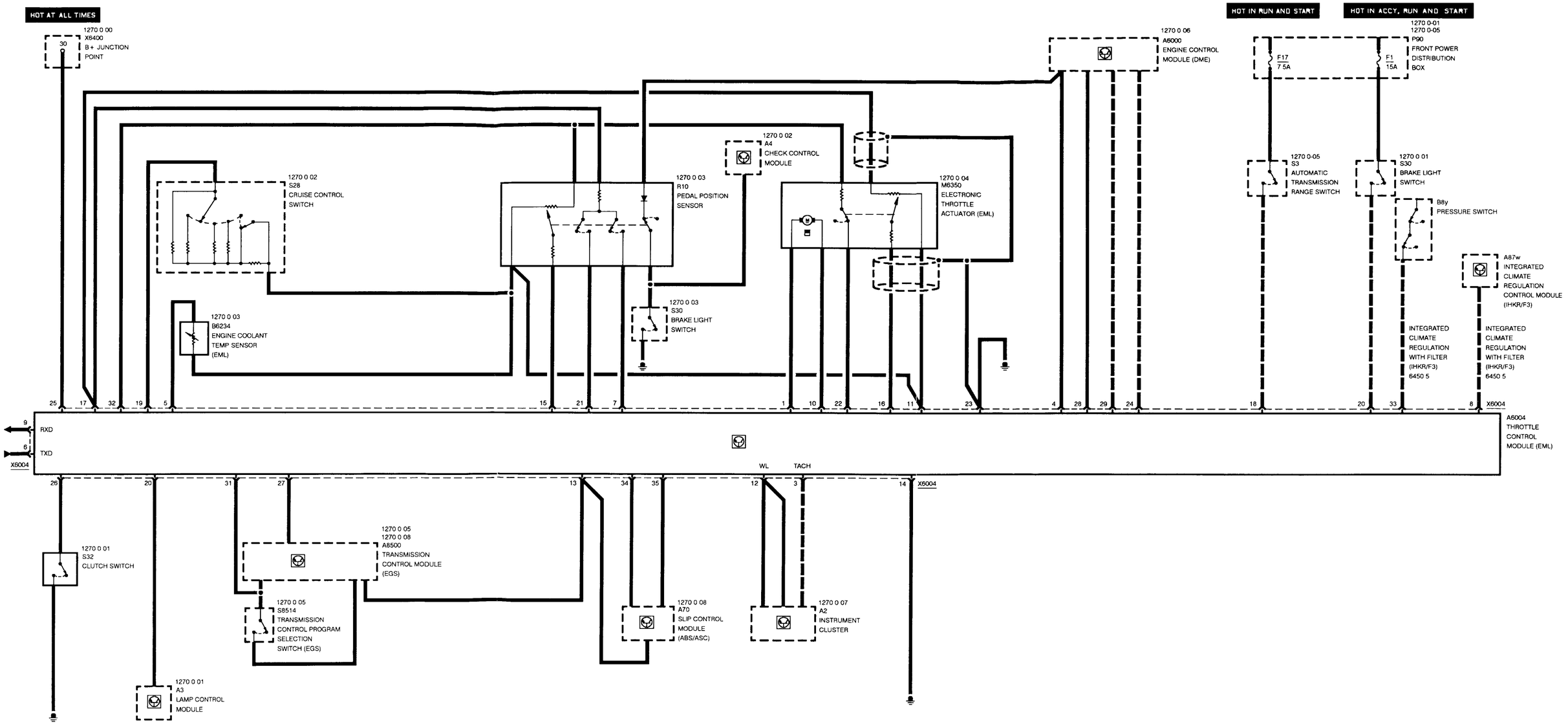
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ELECTRONIC THROTTLE CONTROL (EML, 6-CYLINDER)

Pin Assignments

X6004

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A/E	Drive throttle actuator	EML actuator	Square wave signal		
2		Not used				
3	E	Vehicle speed signal	Instrument cluster	Square wave signal		
4	A	Idle signal	DME control unit	approx. 0 V		
5	A/E	Engine coolant temperature	Water temp sensor (EML)	approx. 0...5 V		
6	E/A	Diagnosis	Diagnostic connector TxD			
7	E	Kick-down signal	Pedal position sensor	approx. 5 V		
8	E	A/C system signal	IHKR/F3 control unit	approx. 12 V (ON)		
9	E	Diagnosis	Diagnostic connector RxD			
10	A/E	Drive throttle actuator	EML actuator	Square wave signal		
11	A	Electronic ground	Component ground	Ground		
12	A	EML-warning lamp	Instrument cluster			
13	A	Throttle position signal	ASC/EGS	Square wave signal		
14	E	Output ground	Ground point	Ground		
15	E	Throttle position	Pedal position sensor	0.4...4 V		
16	E	Actuator position sensor	EML actuator	1 V...4.6 V		
17	A	5 V (not short circuit proof)	Pedal position sensor/ EML actuator	5 V		

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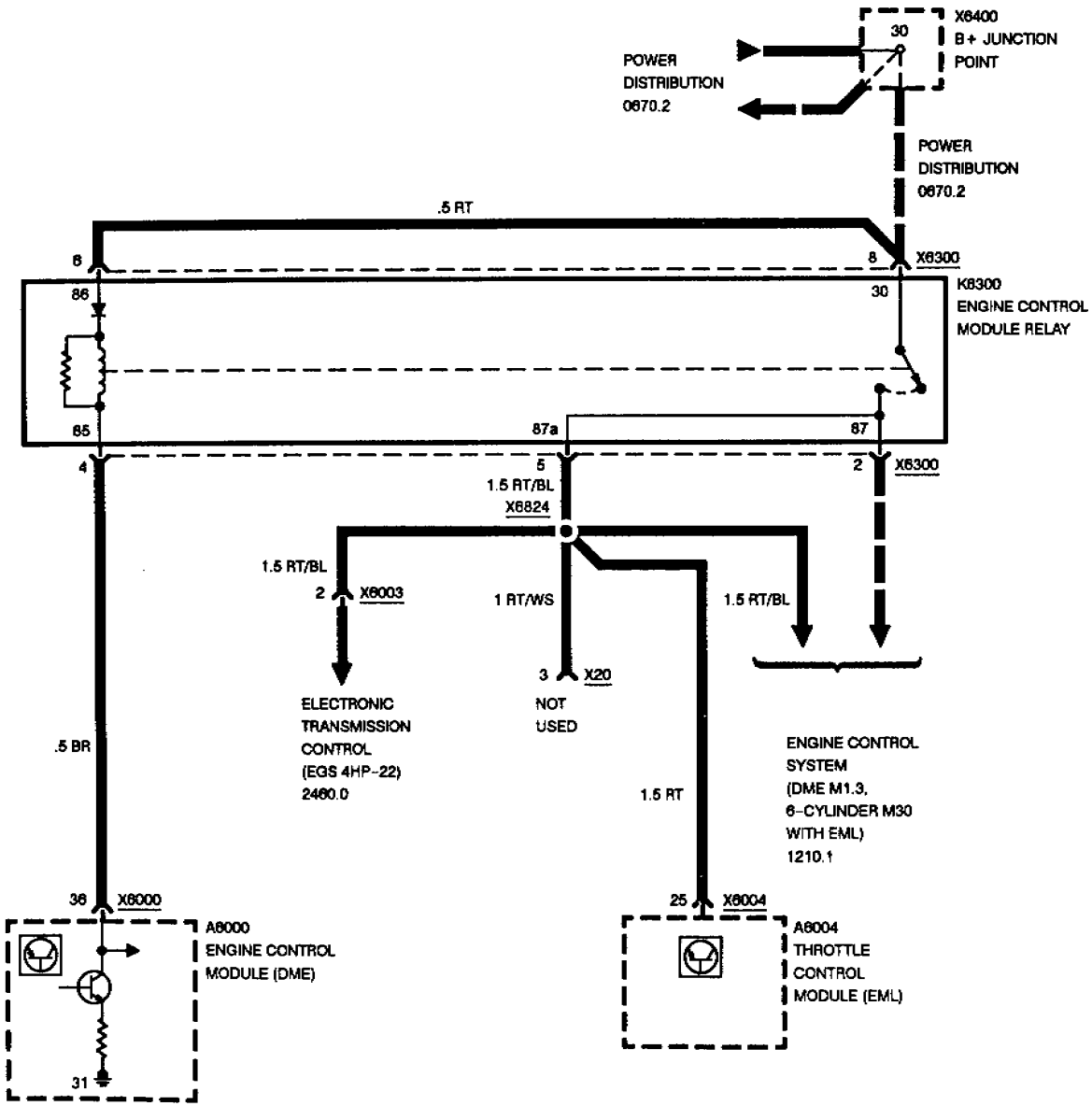
ELECTRONIC THROTTLE CONTROL (EML, 6-CYLINDER)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
18	E	P and N identifier (EGS)	Transmission range switch	approx. 12 V (ON) approx. 0 V (OFF)		
19	E/A	Cruise control switch signal	Cruise control switch	0 V...5 V		
20	E	Brake pedal signal	Brake light switch	approx. 12 V (ON) approx. 0 V (OFF)		
21	E	PWG 9° switch	Pedal position sensor	approx. 5 V (ON)		
22	E	Throttle 17° switch	EML actuator	approx. 5 V (ON)		
23	A	Electronic ground	Component ground	Ground		
24	E	Injection signal ti	DME control unit	Square wave signal		
25	E	Terminal 30 +	DME – relay	approx. on-board voltage		
26	E	Clutch pedal signal	Clutch switch	approx. 0 V		
27	A	Kick-down signal	EGS control unit	approx. 0 V (ON) approx. 12 V (OFF)		
28	A	Full load signal	DME control unit	approx. 0 V		
29	E	Engine speed signal (TD)	DME control unit	Square wave signal		
30		Not used				
31	E	S-program identification	EGS control unit	approx. 0 V		
32	A	5 V (not short circuit proof)	Pedal position sensor/ EML actuator	approx. 5 V		
33	E	A/C compressor ON	Pressure switch	approx. 12 V (ON)		
34	E	Decrease throttle position angle (DKR)	ABS/ASC-control unit	Square wave signal		
35	E	Increase throttle position angle (DKE)	ABS/ASC-control unit	Square wave signal		

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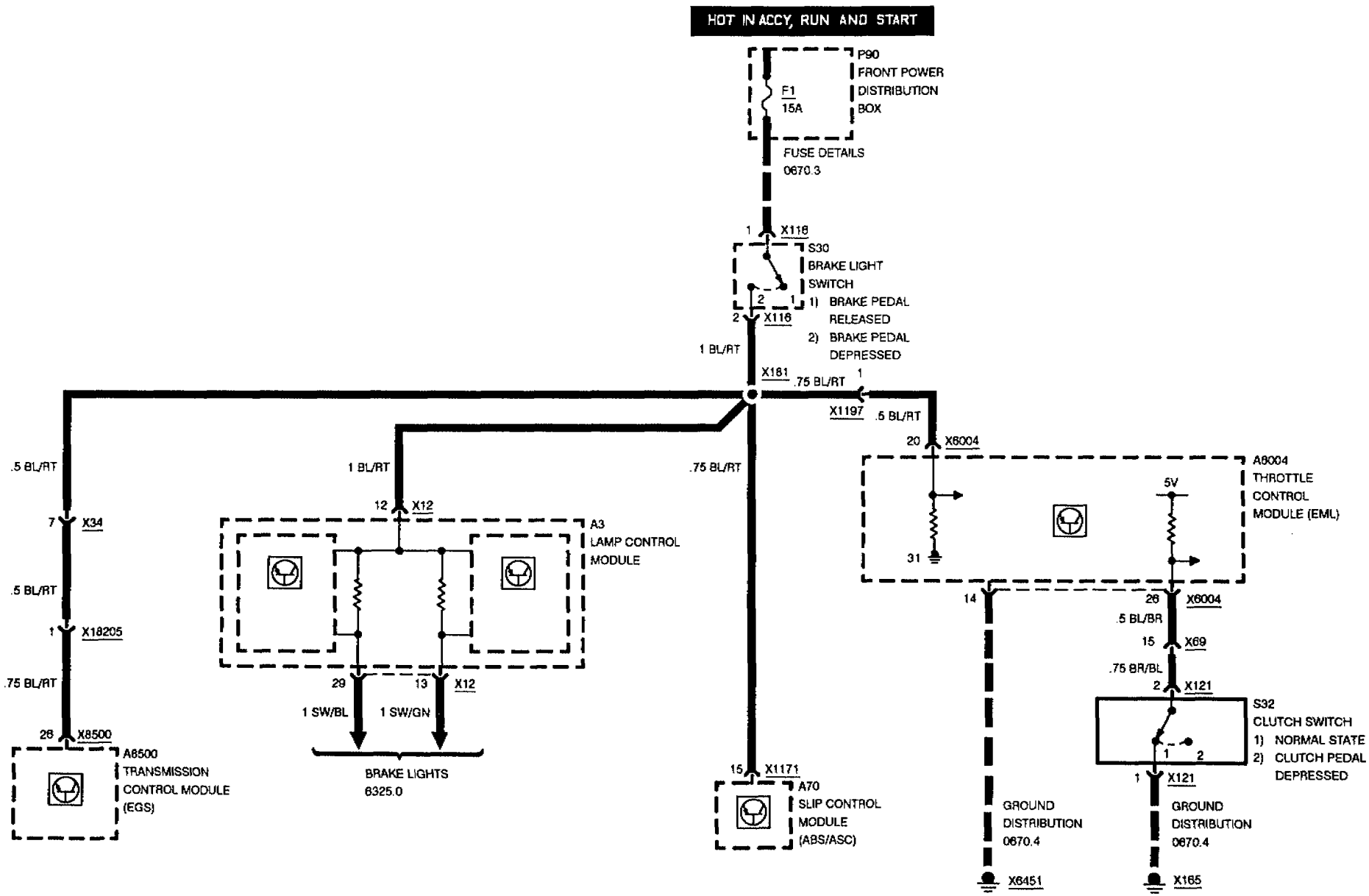
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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)



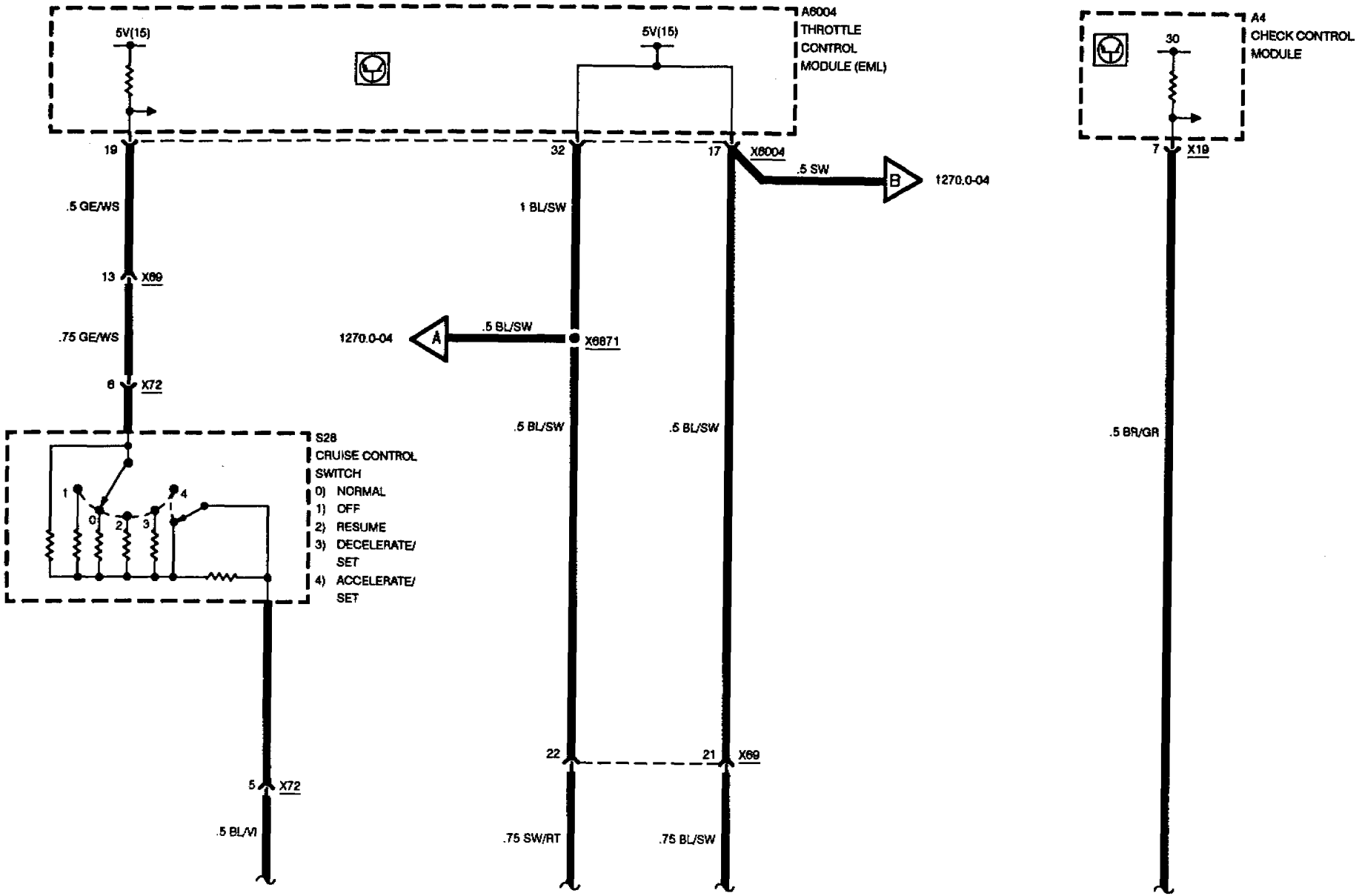
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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

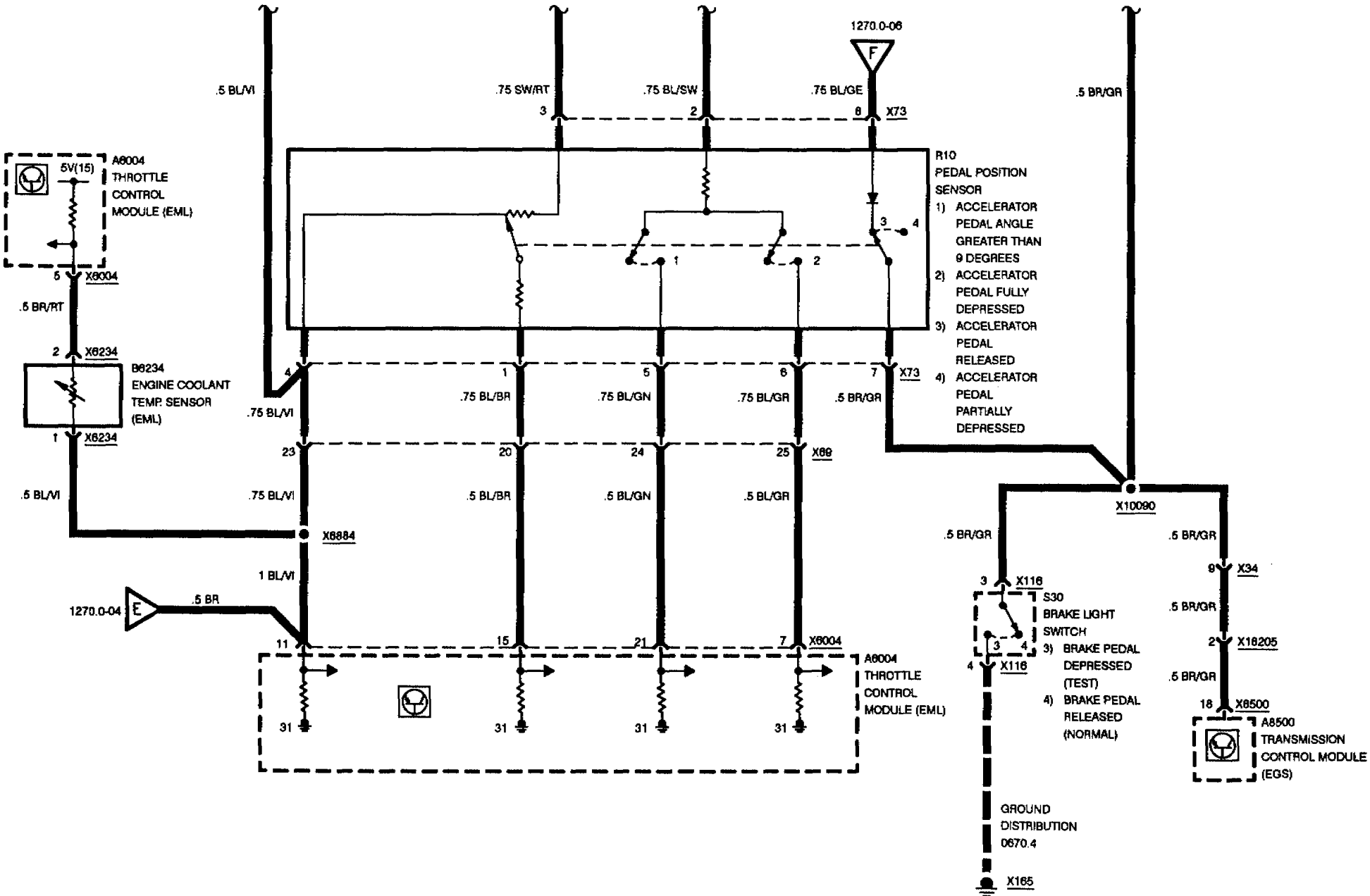


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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

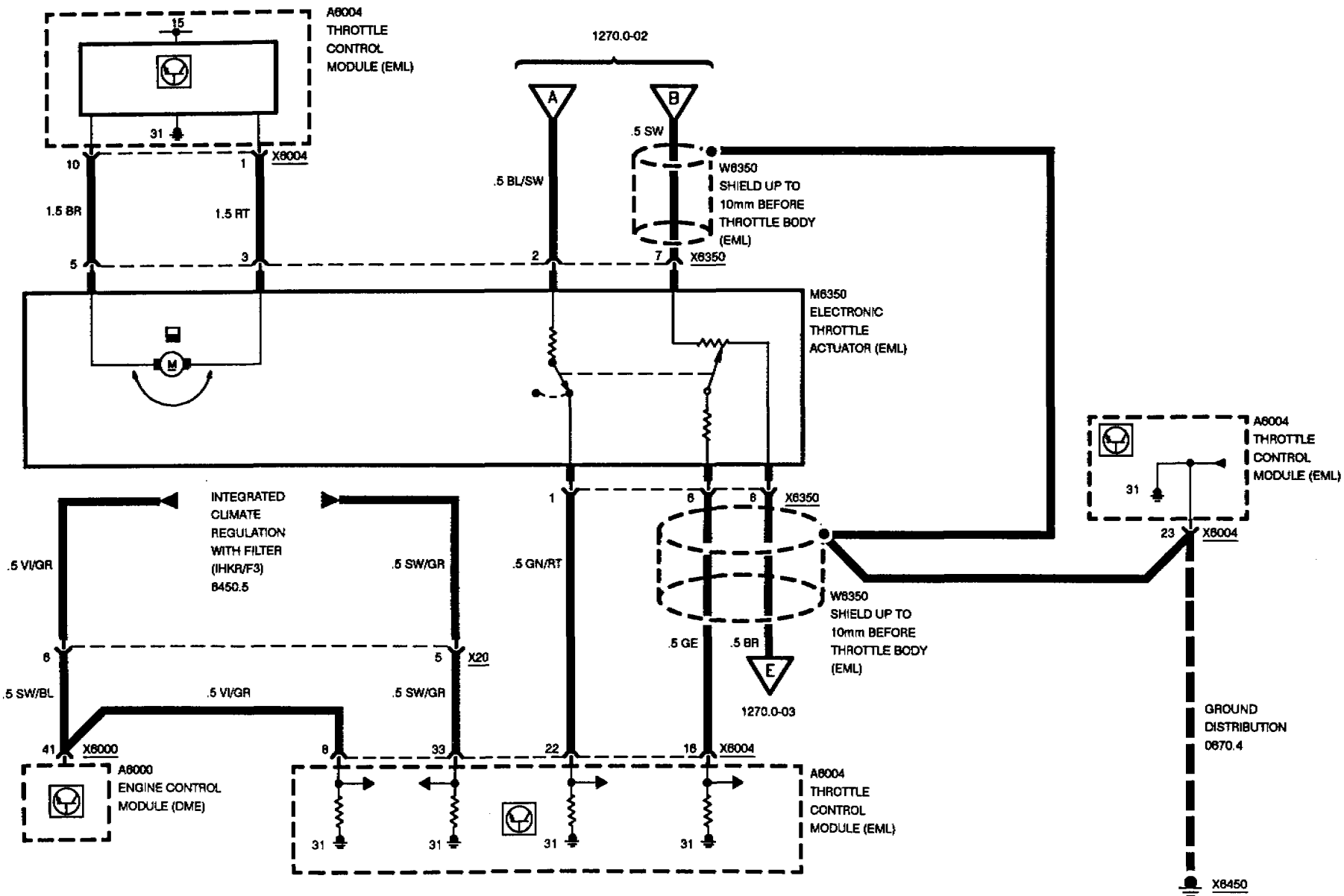


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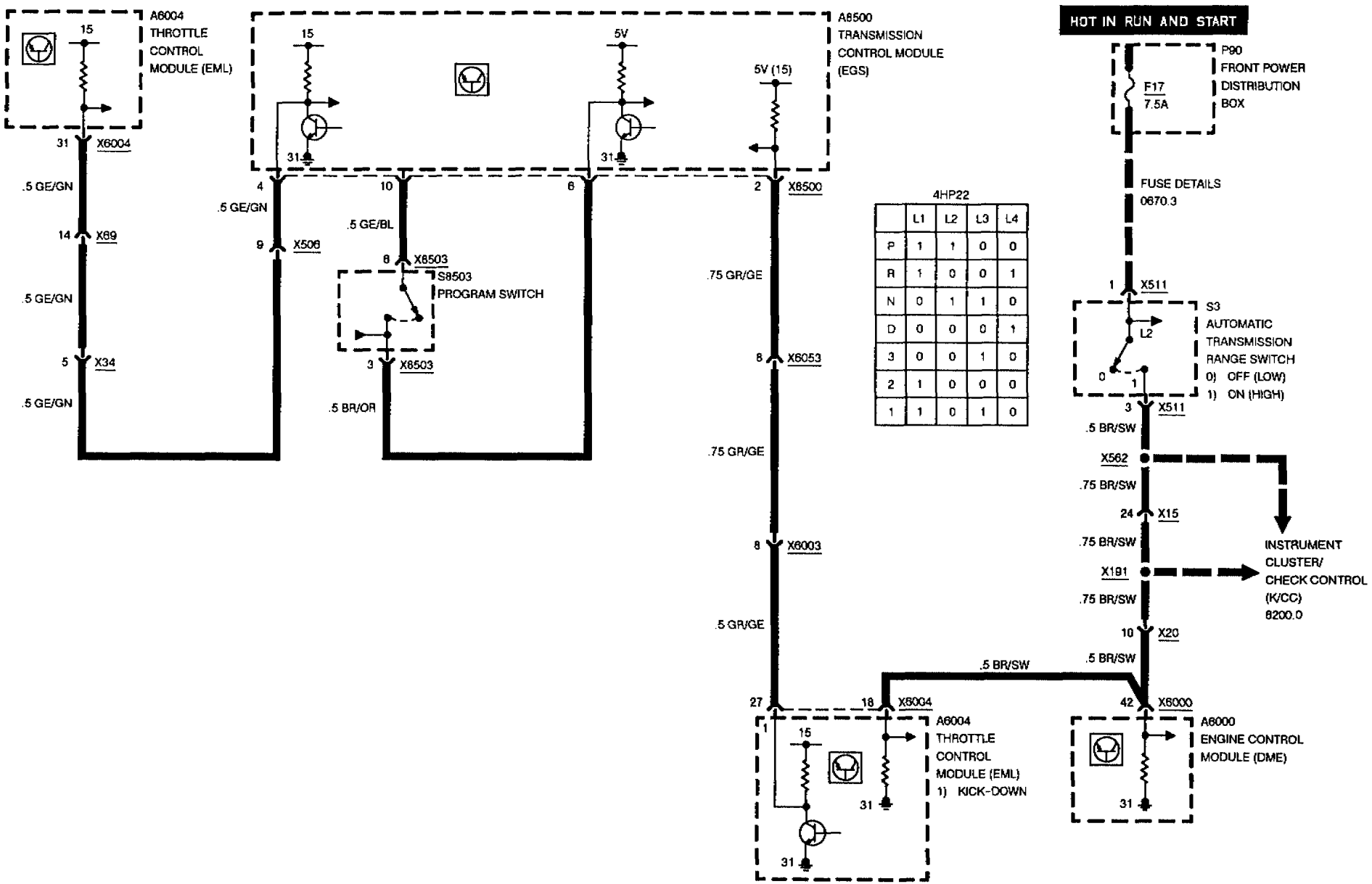
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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)



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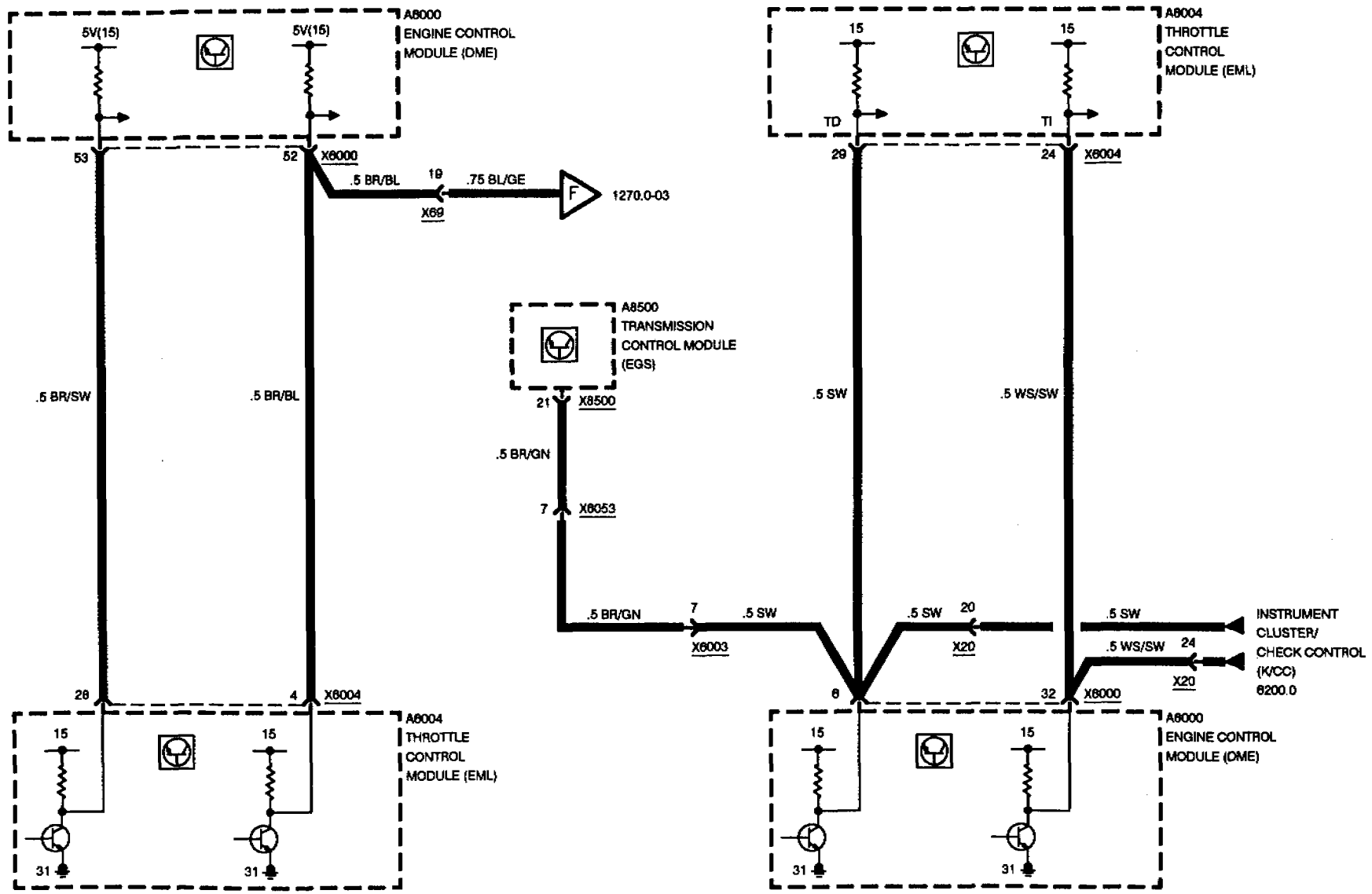
ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)



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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

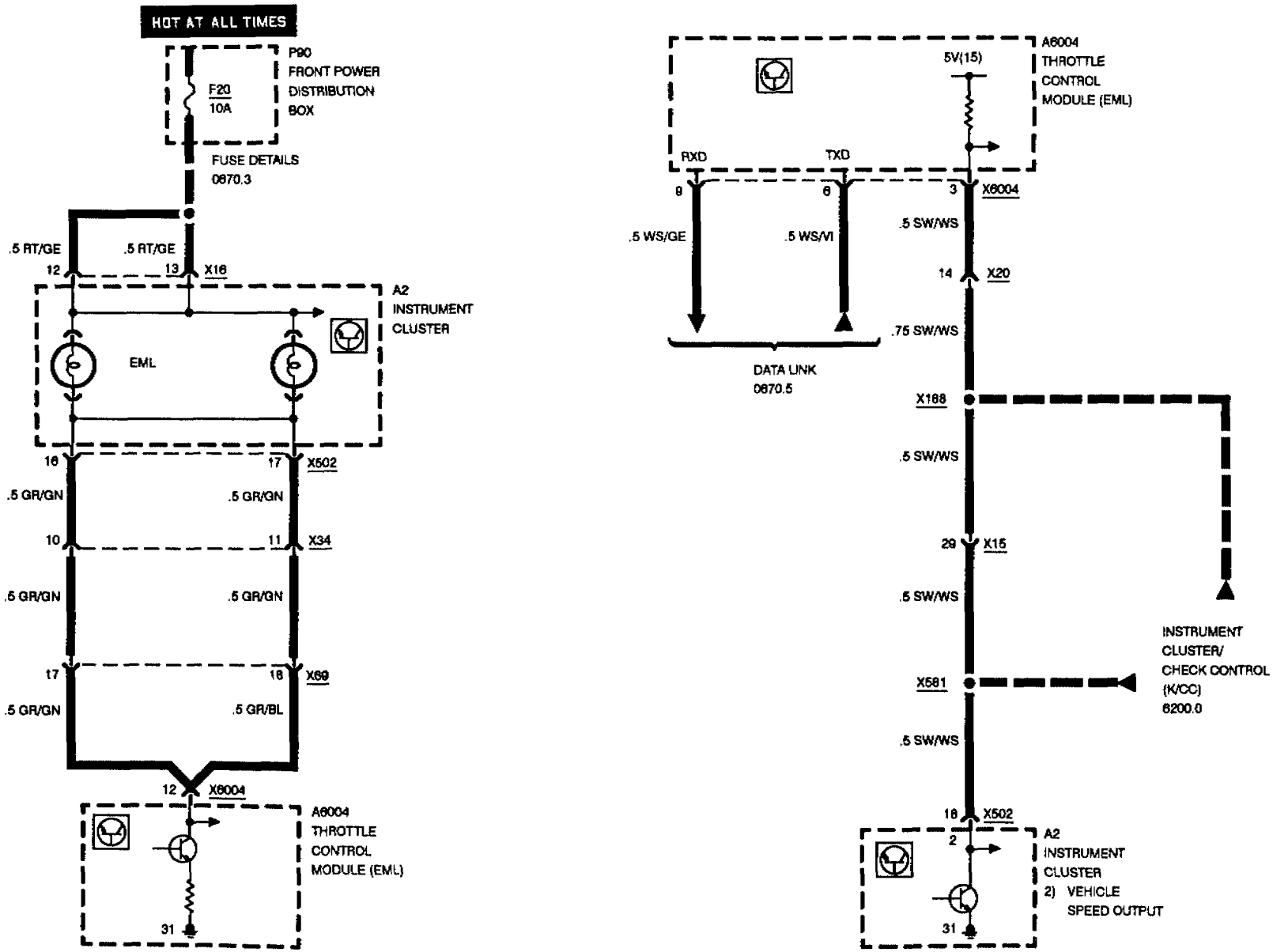
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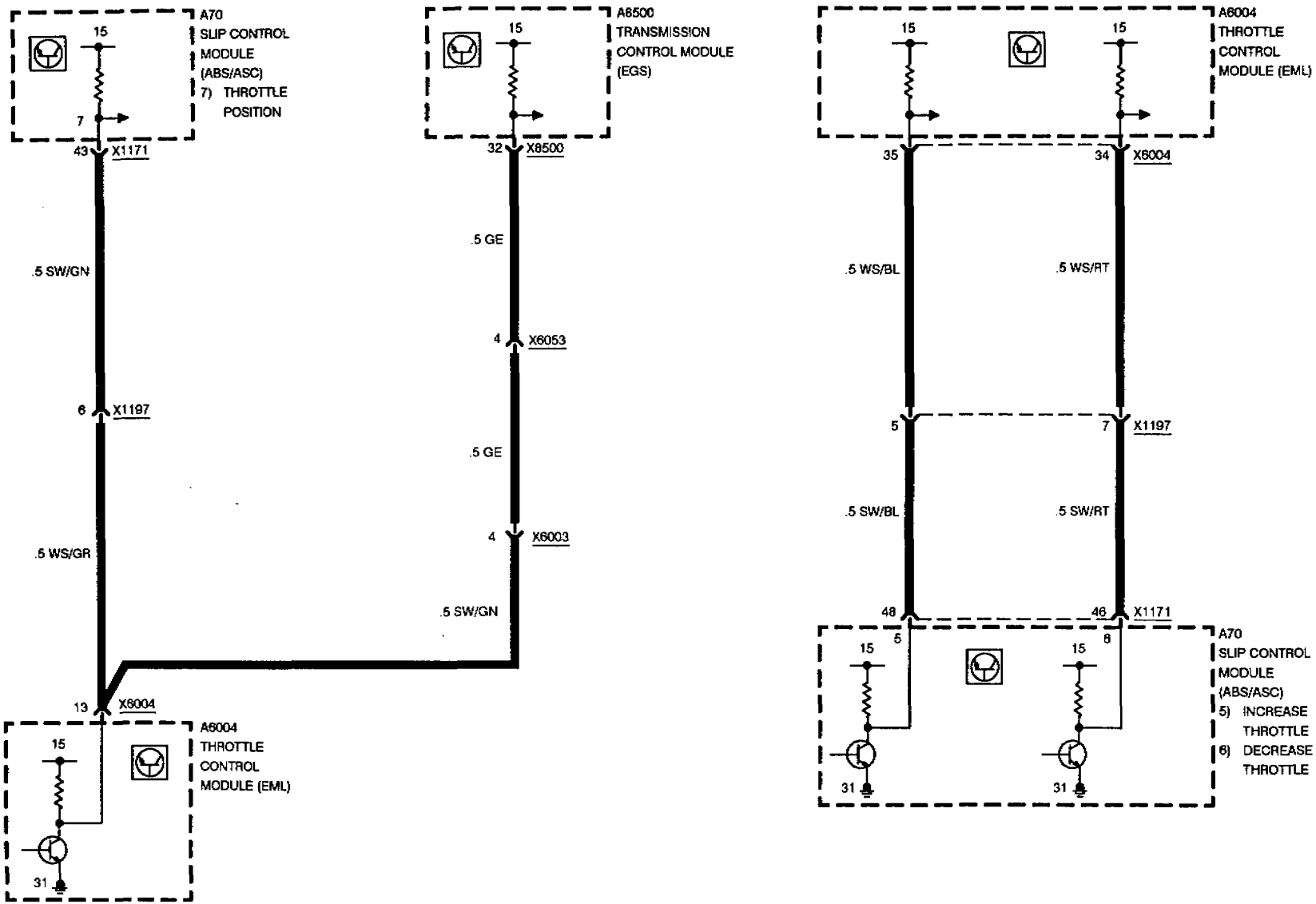
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ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)

535i

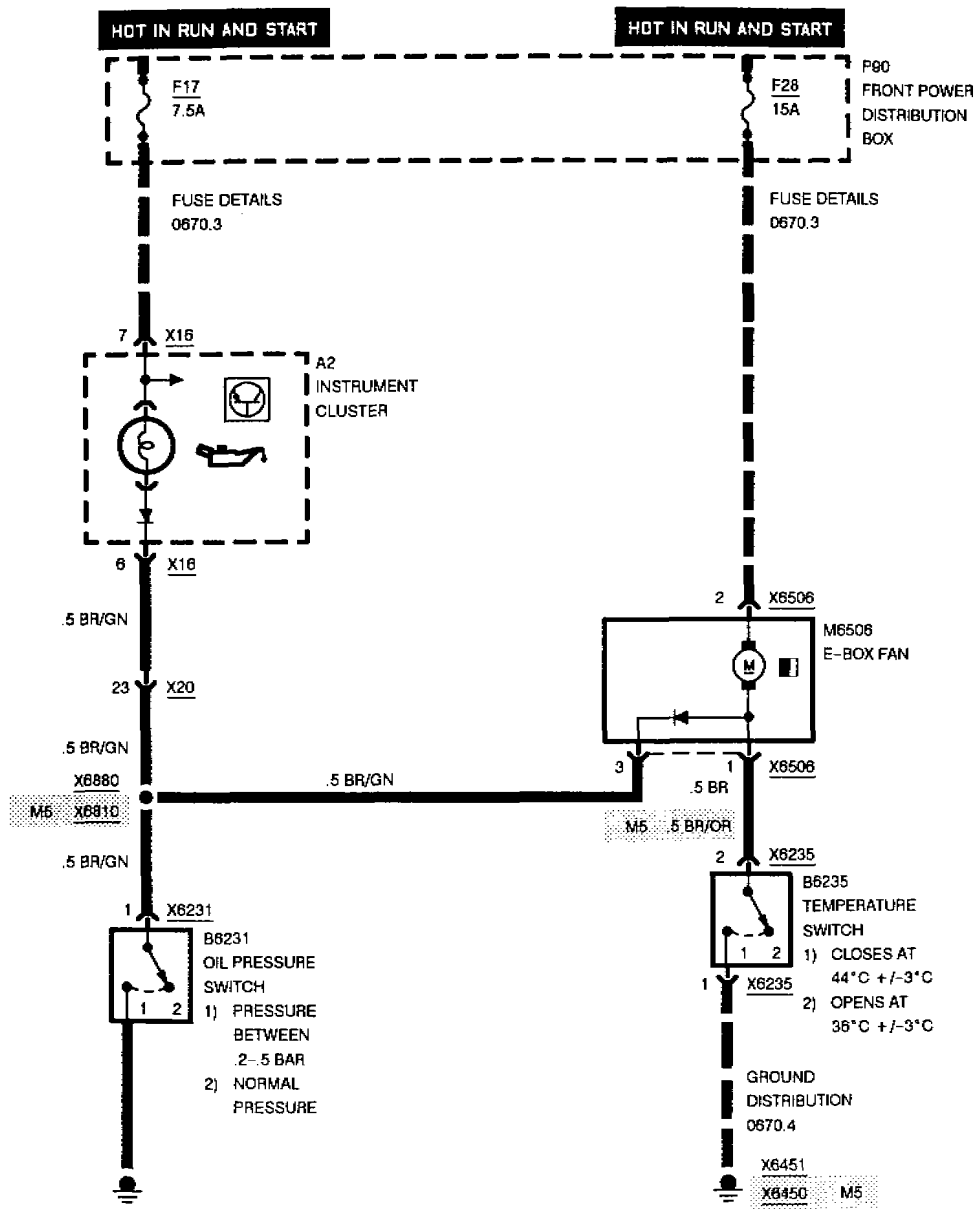


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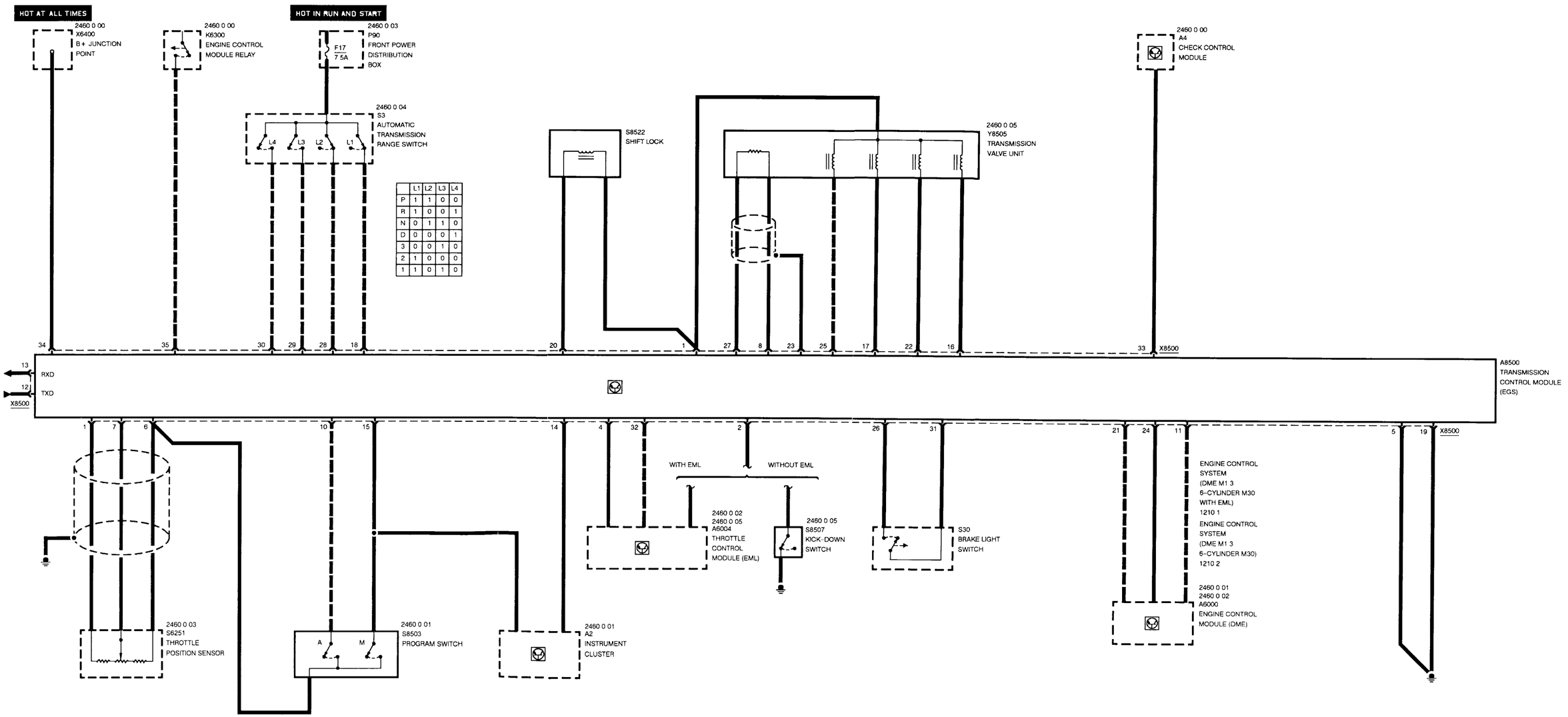
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11/92 2460 0 1992
11/92 2460.0 1992



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Pin Assignments

X8500

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Plus supply, solenoid valves, pressure regulators and shift lock solenoid	Gear shift unit	Active high	Component activation	This supply is switched off during mechanical emergency program, i.e. transmission relay in control unit deenergizes.
2	E	Kick-down	EML control unit (with EML) Kick-down switch (without EML)	Active low	Status display	
3		Not used				
4	E/A	EML control unit signal	EML control unit	Active low	Status display	Only in GS 1.26/1.27
5	M	Ground, control unit	Ground			
6	A	Ground, program button	Program button/throttle switch			
7	E	Throttle signal	Throttle switch	Analog	Status display	According to pedal position
8	E	Output speed n-ab (+)	Gearshift unit		Status display	
9	A	Voltage supply, throttle potentiometer	Throttle switch			DK (+) only without EML
10	E	A-program signal	Program button	Active low	Status display	Only in GS 1.26/1.27
11	E	Fuel consumption display (tl signal)	DME control unit		Status display	
12	E/A	TxD				
13	E	RxD				

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
14	A	Program signal	Instrument cluster		Status display	
15	E/A	M-program signal	Program button, instrument cluster		Status display	
16	A	Solenoid valve 1	Gearshift unit	Active low	Component activation	
17	A	Solenoid valve, pressure regulation	Gearshift unit	Current control	Component activation	
18	E	Position switch L1	Selector lever	Active high	Status display	
19	M	Ground, control unit	Ground			
20	A	Lifting solenoid, shift-lock	Shift-lock solenoid	Active low	Component activation	Only in GS 1.22/E7 regulation
21	E	Engine speed n-mot (TR signal)	DME control unit		Status display	
22	A	Solenoid valve 2	Gearshift unit	Active low	Component activation	
23	A	Shield speed sensor		Ground		
24	A	Engine intervention	DME control unit	Active low	Component activation	
25	A	Solenoid valve, torque converter clutch	Gearshift unit	Active low	Component activation	
26	E	Brake test switch signal	Brake light switch	Active high		Only in GS 1.22, 1.27
27	E	Output speed n-ab (-)	Gearshift unit		Status display	
28	E	Position switch L2	Selector lever	Active high	Status display	
29	E	Position switch L3	Selector lever	Active high	Status display	
30	E	Position switch L4	Selector lever	Active high	Status display	
31	A	Brake test switch	Brake light switch			
32	E	Set throttle signal	EML control unit	Pulse width modulated	Status display	Correspond to accelerator pedal position
33	A	Fault display	Check control module (A4)	Active high		

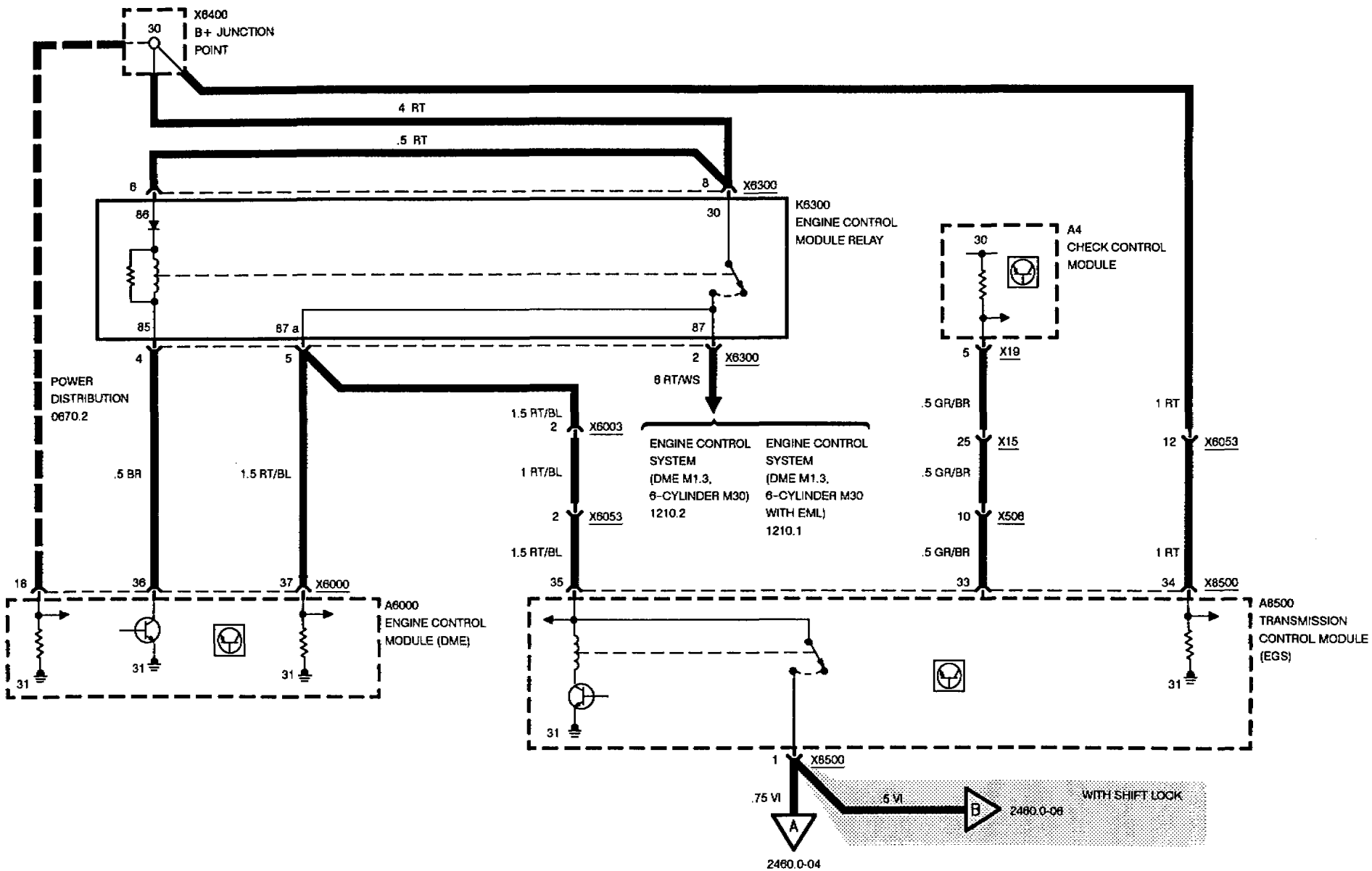
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ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
34	E	Voltage supply terminal 30	Battery	Battery voltage		Continuous supply
35	E	Voltage supply	DME main relay			Holding circuit DME

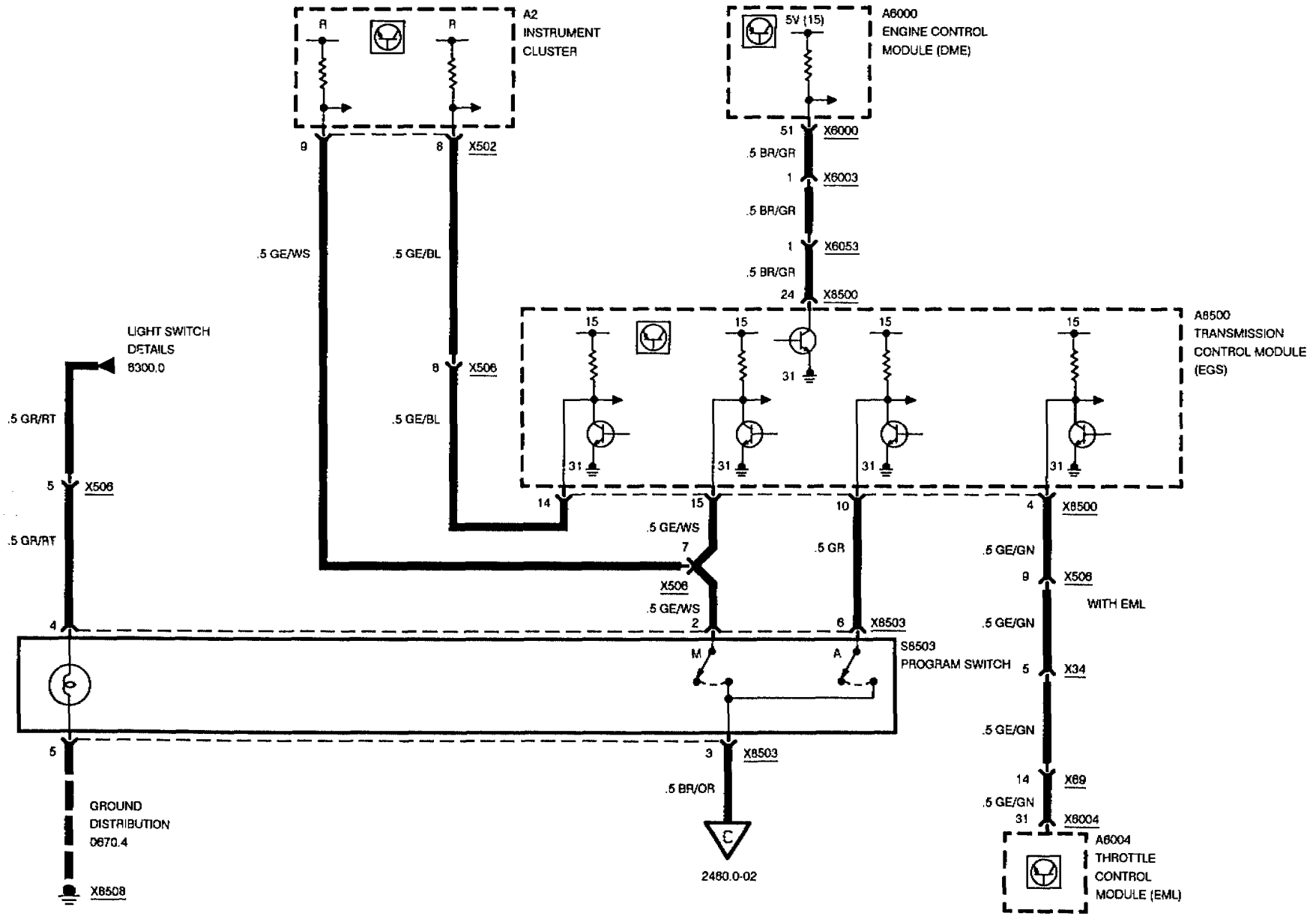
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ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)



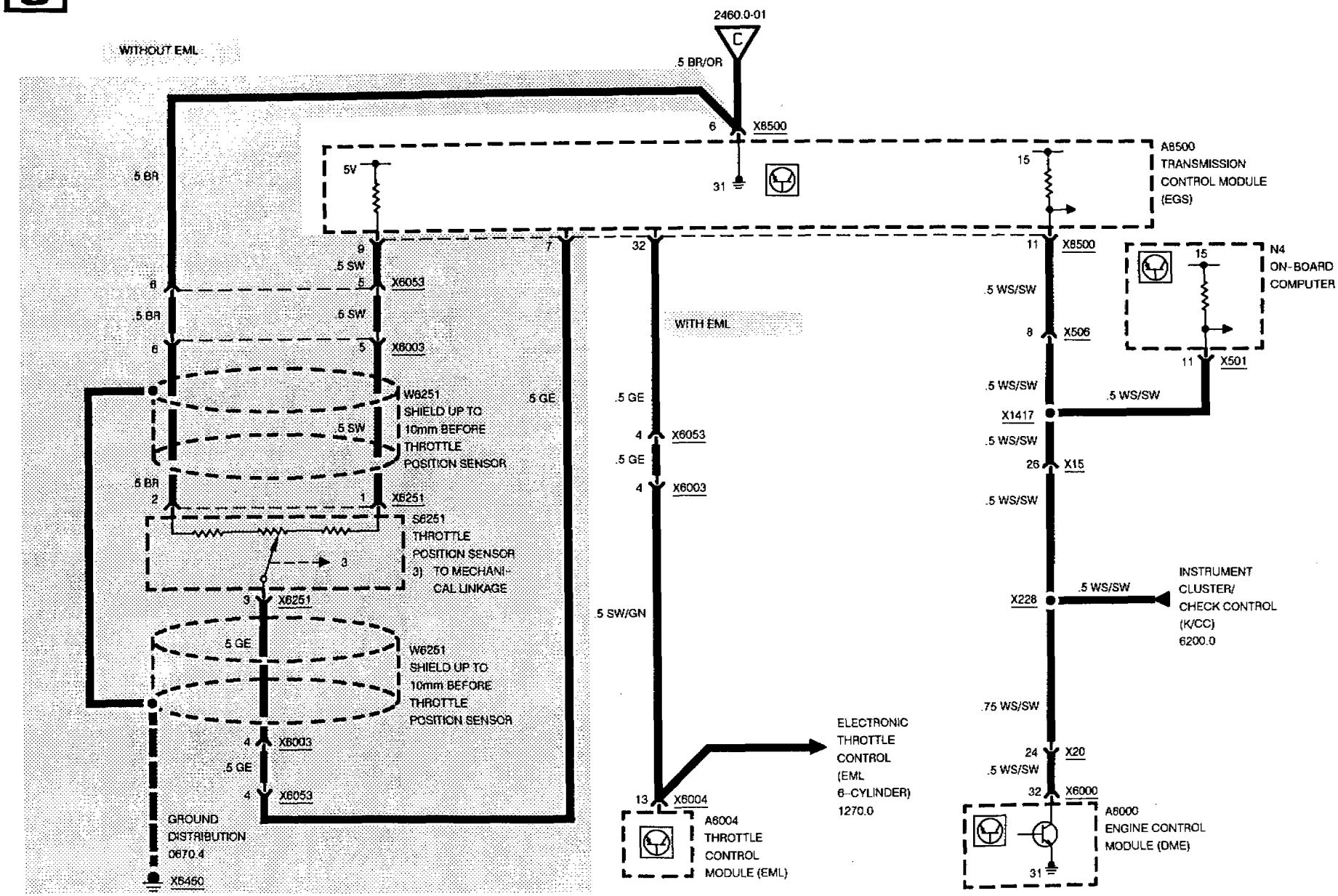
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ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)



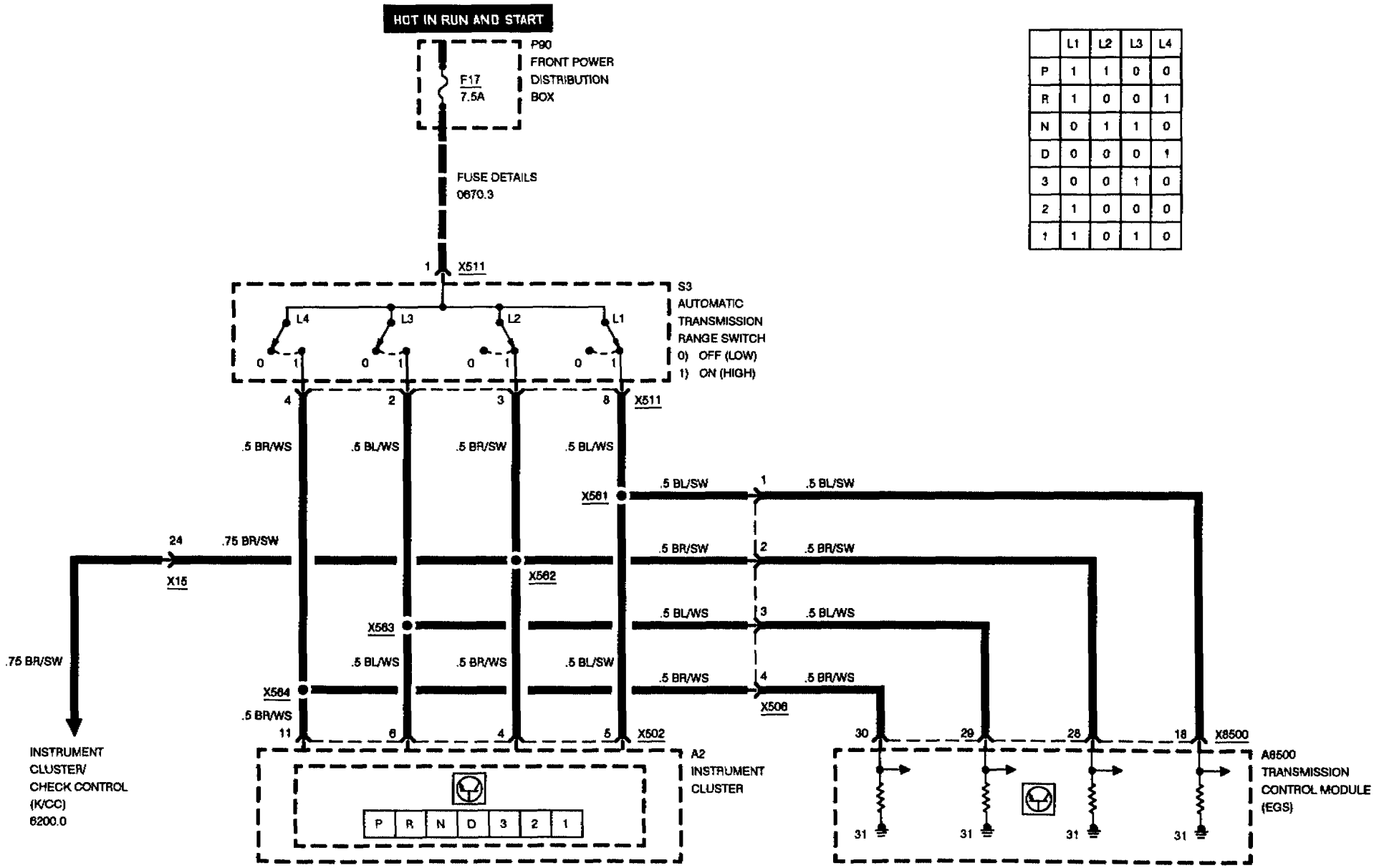
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ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)



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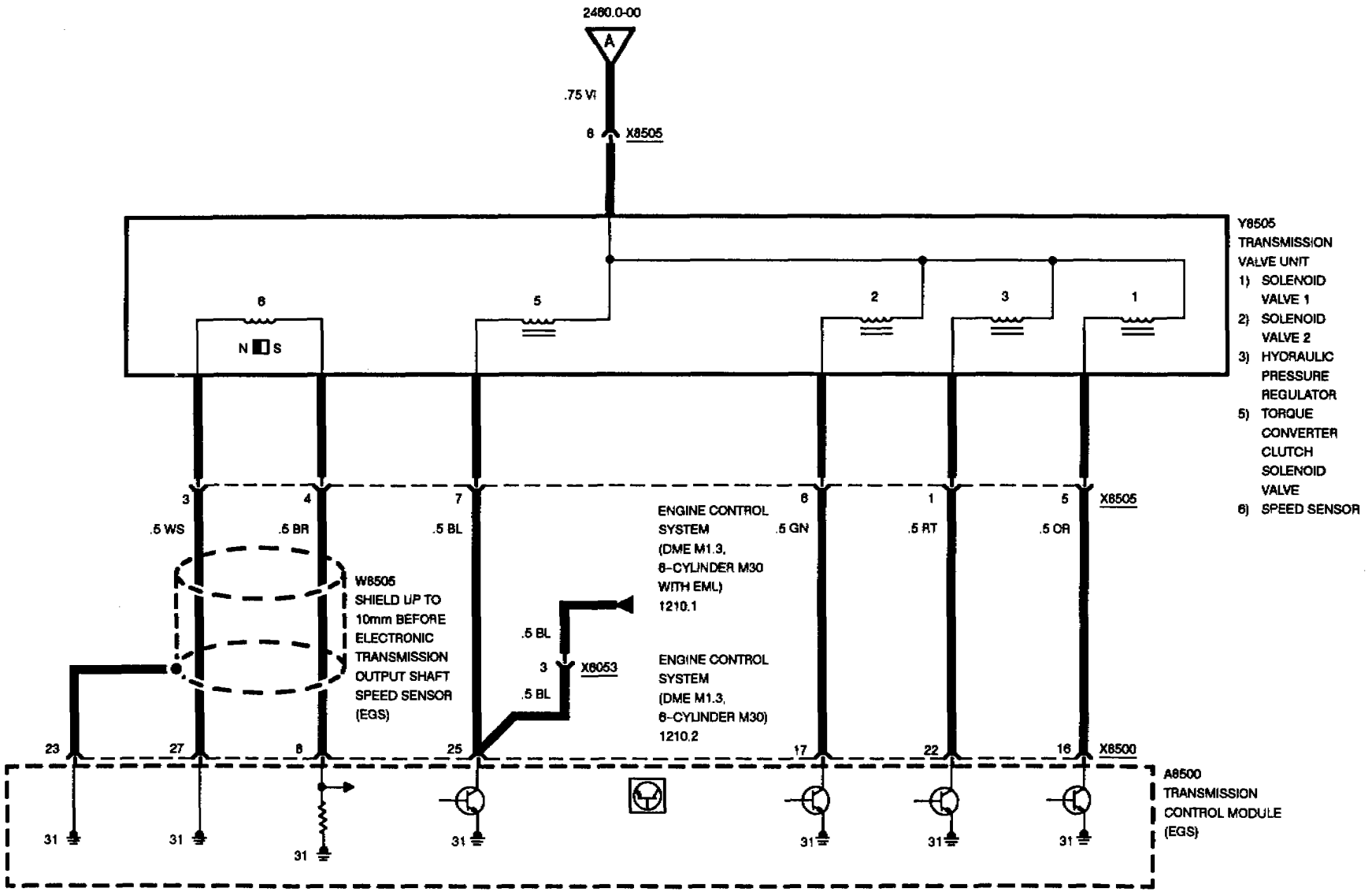
ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)



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

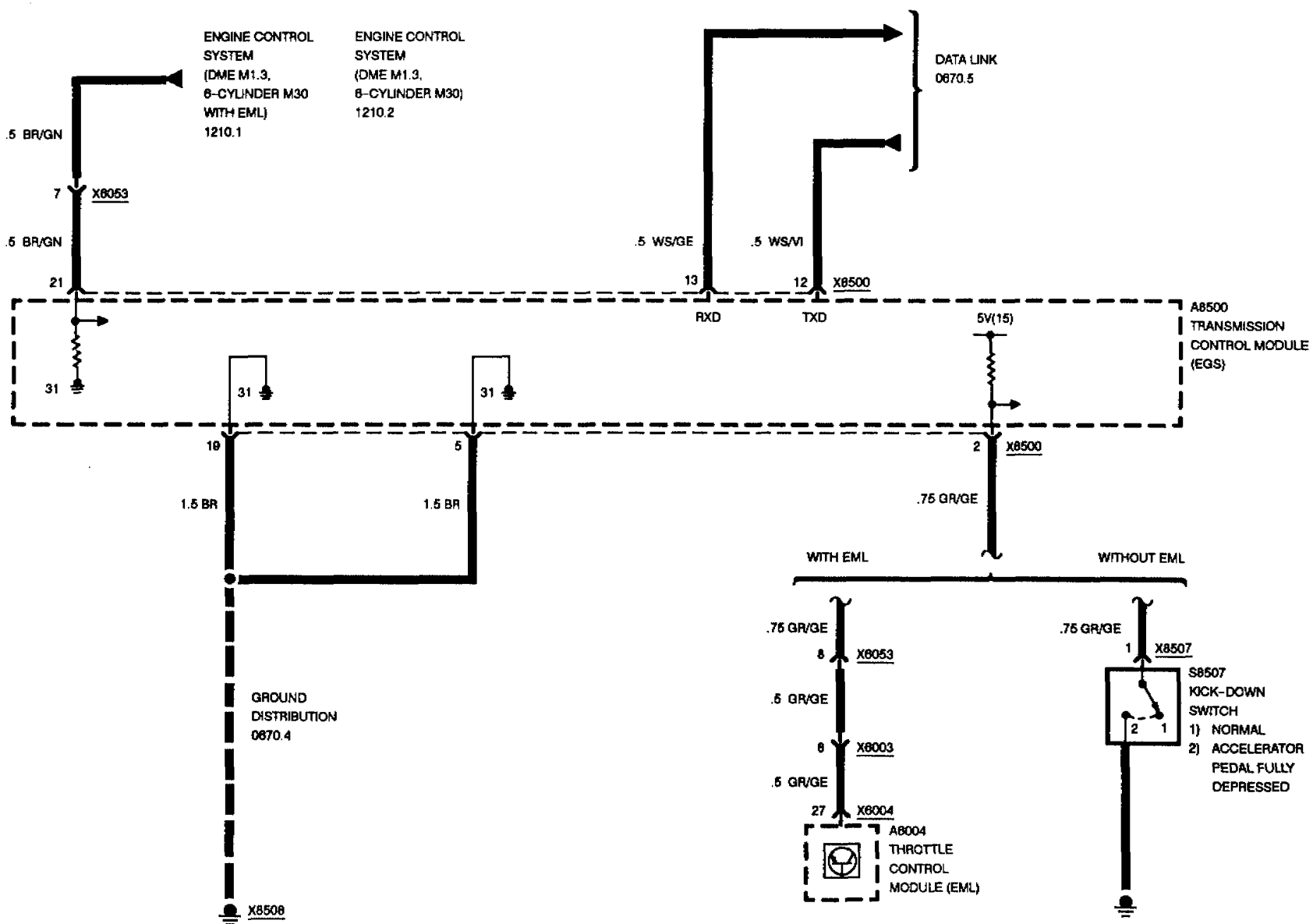
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ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)



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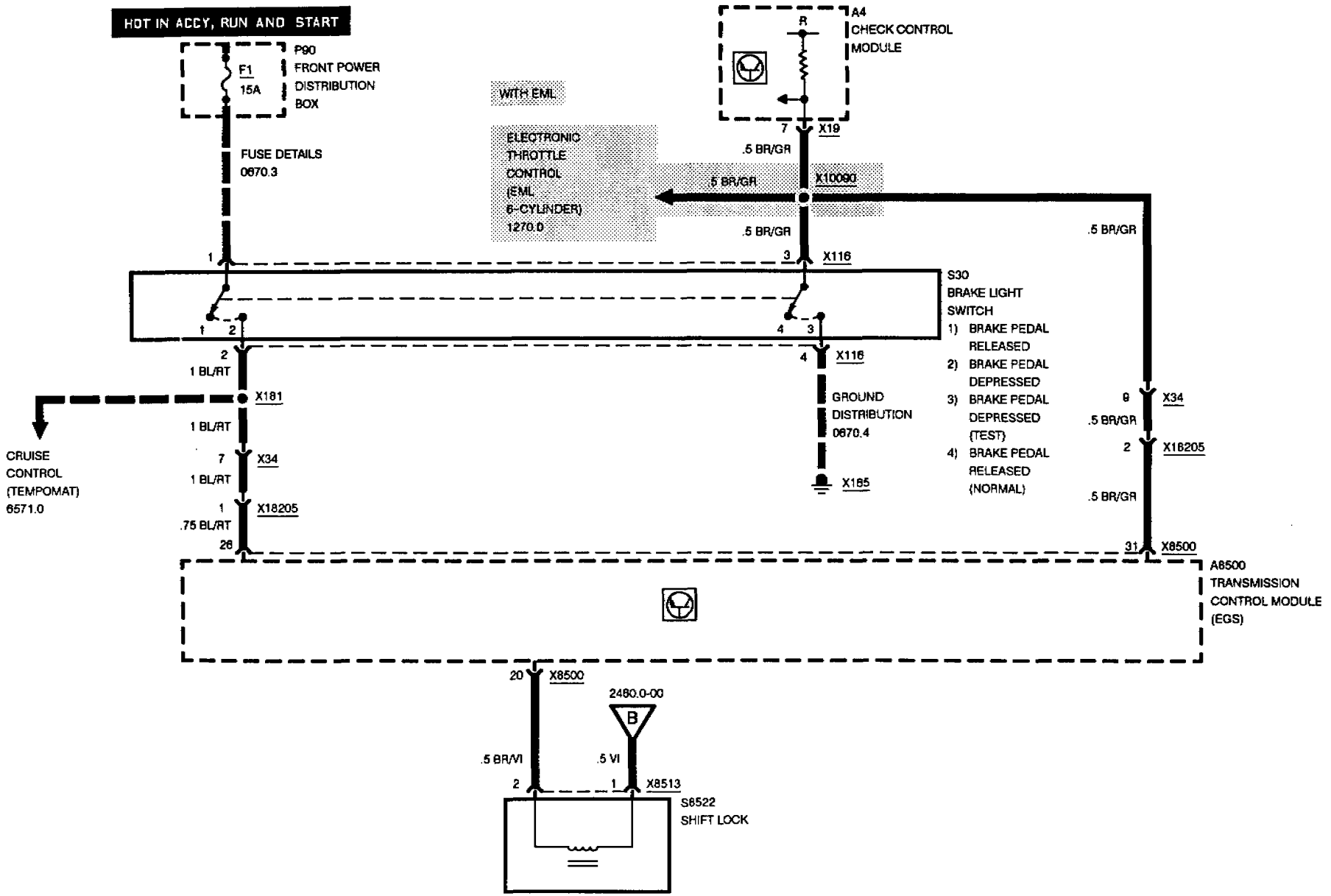
ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)



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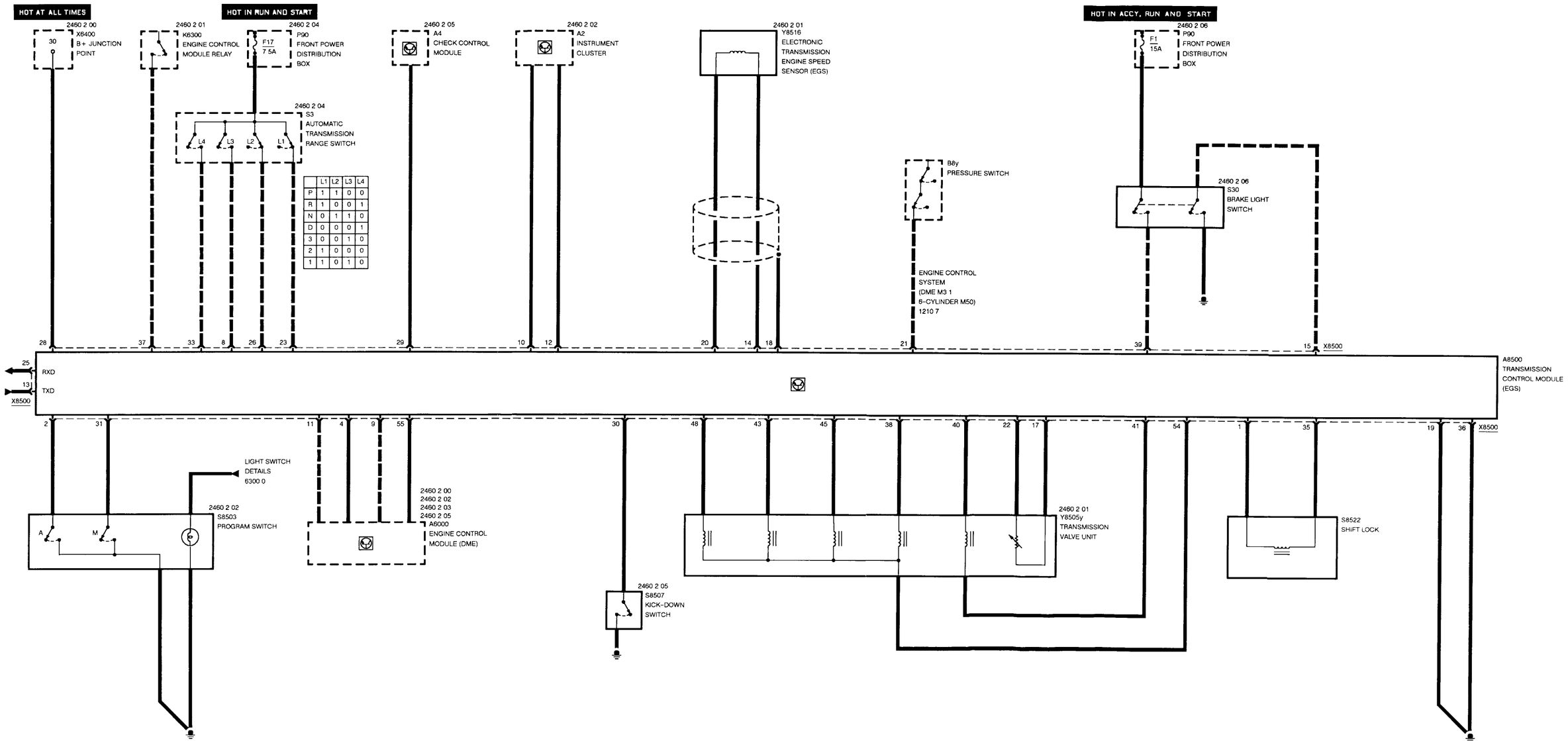
ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22)

SHIFT LOCK



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Pin Assignments

X8500

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Shift lock solenoid control	Shift lock solenoid			
2	E	Automatic mode signal	Program switch	Ground		
3		Not used				
4	A	Ignition timing intervention	DME control unit	Ground		Active only during gear shifts
5		Not used				
6		Not used				
7		Not used				
8	E	Gear range signal L3	Auto. trans. range switch			
9	E	ti Measuring signal (KVA)	DME control unit	Square-wave signal	Multimeter function pulse duration	Oscilloscope
10	A	Automatic mode indicator	Instrument cluster			
11	E	Engine speed signal (TR)	DME control unit	Ground with superimposed signal		Can only be measured with crankshaft rotating
12	A	Manual mode indicator	Instrument cluster			
13	E/A	Diagnosis TxD	Diagnostic socket			
14	E	Transmission output shaft speed (-)	EGS RPM sensor			
15	E	Switch test signal	Brake light test switch			

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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

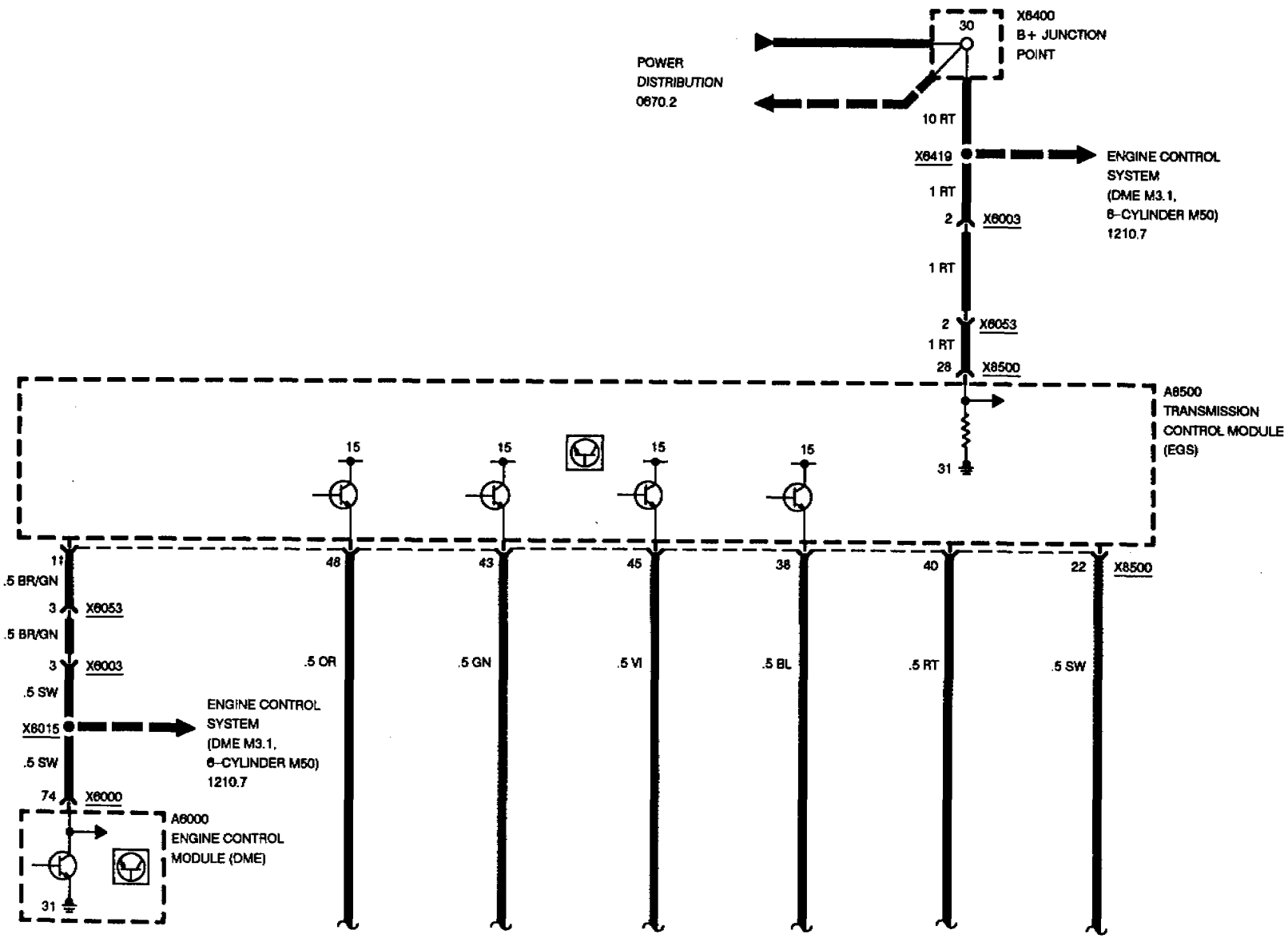
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
16		Not used				
17	E	Analog ground (oil temperature sensor)	Transmission gear shift unit			
18	A	Shield, RPM sensor	EGS RPM sensor	Ground		
19	M	Ground	Ground	Ground		
20	E	Transmission output shaft speed (+)	EGS RPM sensor			
21	E	A/C compressor ON	Pressure switch			
22	E	Oil temperature signal (+)	Transmission gear shift unit	NTC		
23	E	Gear range signal L1	Auto. trans. range switch			
24		Not used				
25	E	Diagnosis RxD	Diagnostic socket			
26	E	Gear range signal L2	Auto. trans. range switch			
27		Not used				
28	E	Terminal 30 voltage	Terminal 30			
29	A	Fault indicator signal	Check control module			
30	E	Kick down signal	Kick down switch	Ground		
31	E	Manual mode signal	Program switch	Ground		
32		Not used				
33	E	Gear range signal L4	Auto. trans. range switch			
34		Not used				
35	A	Solenoid ground	Shift lock solenoid			
36	M	Ground	Ground	Ground		
37	E	Voltage supply	Relay 2, DME			

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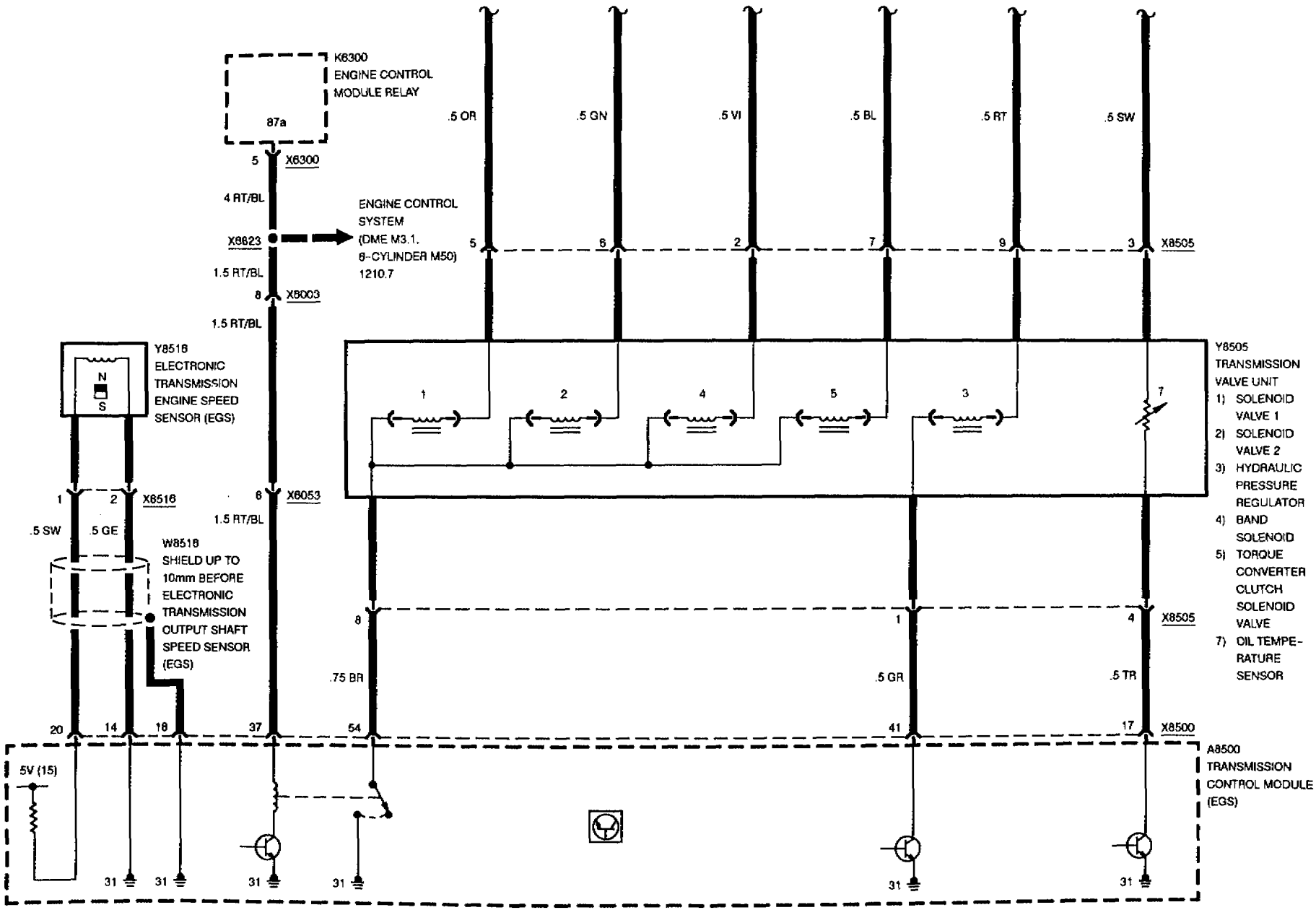
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
38	A	Torque converter clutch solenoid control	Transmission gear shift unit			
39	E	Brake pedal status	Brake light test switch			
40	A	Pressure regulator solenoid control (+)	Transmission gear shift unit			
41	A	Pressure regulator solenoid control (-)	Transmission gear shift unit			
42		Not used				
43	A	Solenoid 2 control (+)	Transmission gear shift unit			
44		Not used				
45	A	Band solenoid control (+)	Transmission gear shift unit			
46		Not used				
47		Not used				
48	A	Solenoid 1 control (+)	Transmission gear shift unit			
49		Not used				
50		Not used				
51		Not used				
52		Not used				
53		Not used				
54	A	Solenoid ground	Transmission gear shift unit			
55	E	Throttle position signal	DME control unit	Pulse width modulated		

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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

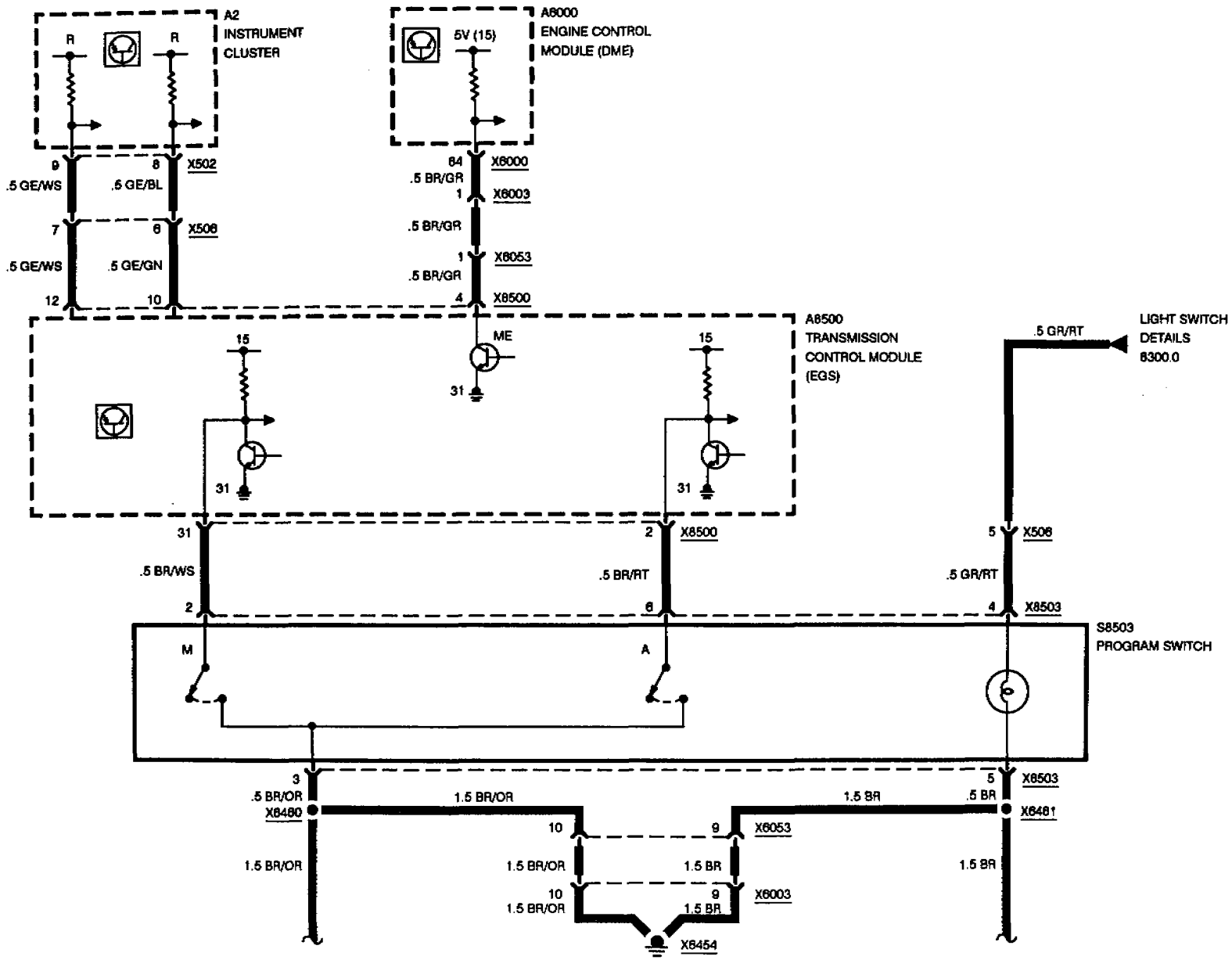


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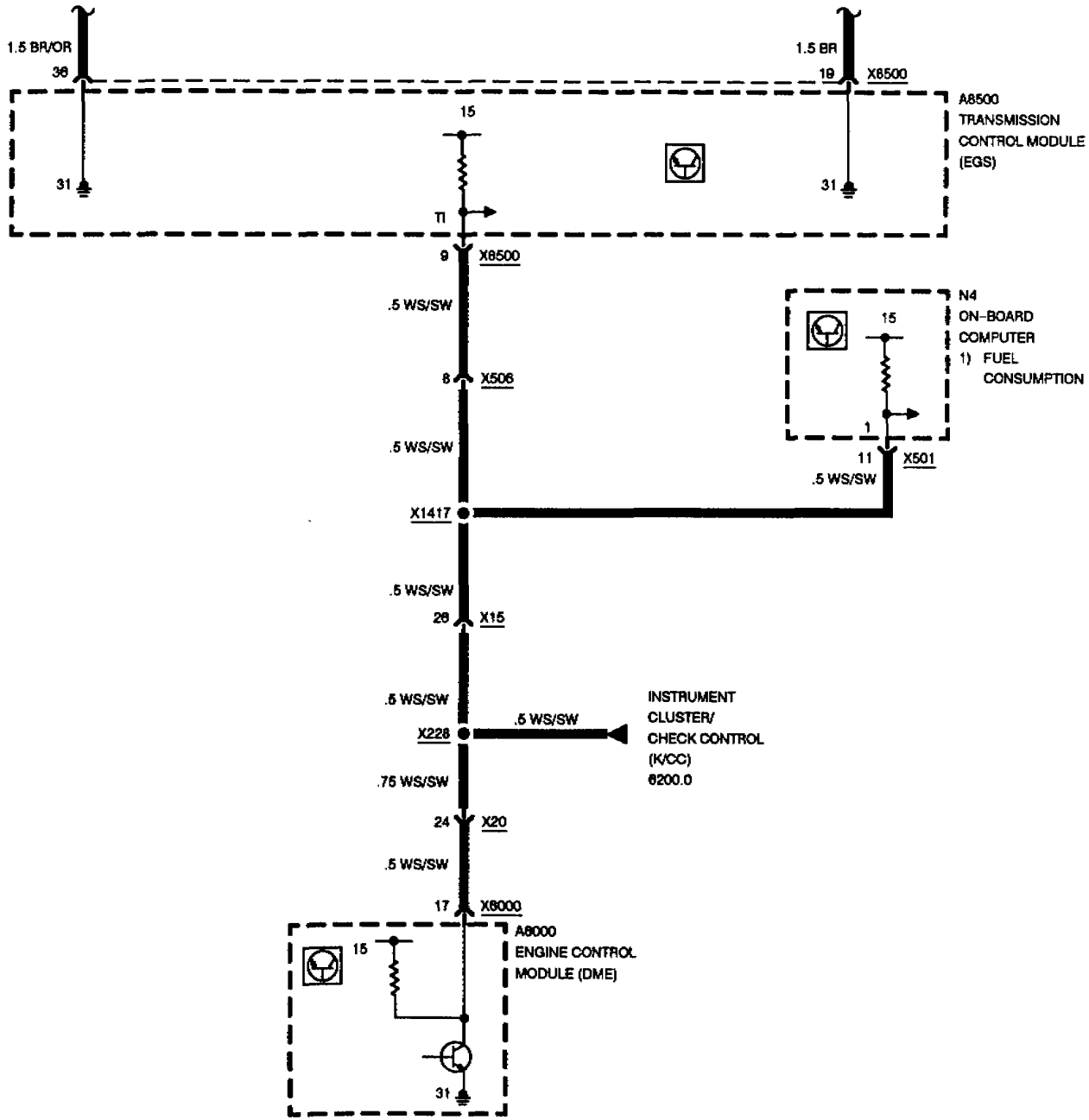


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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

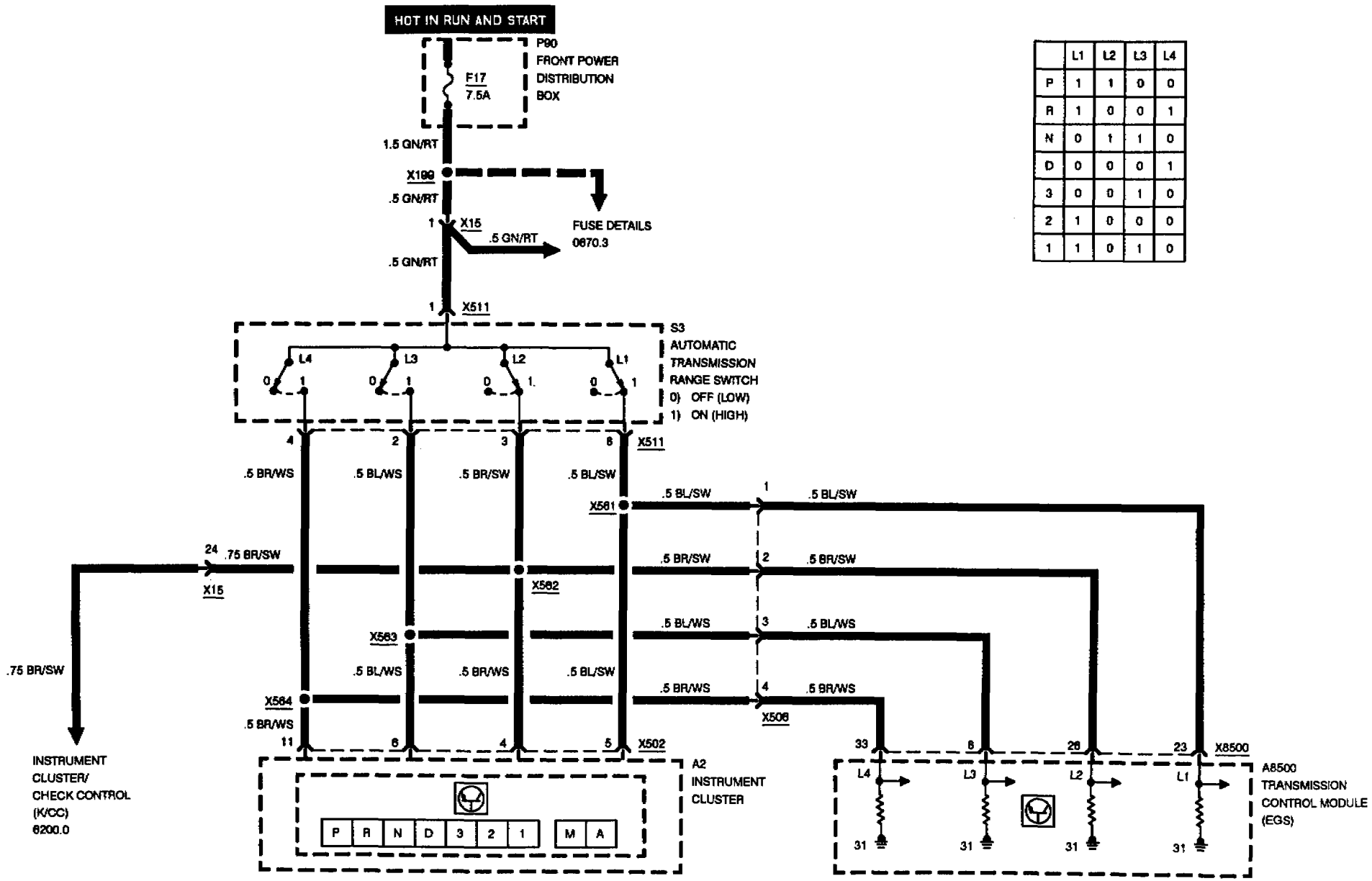


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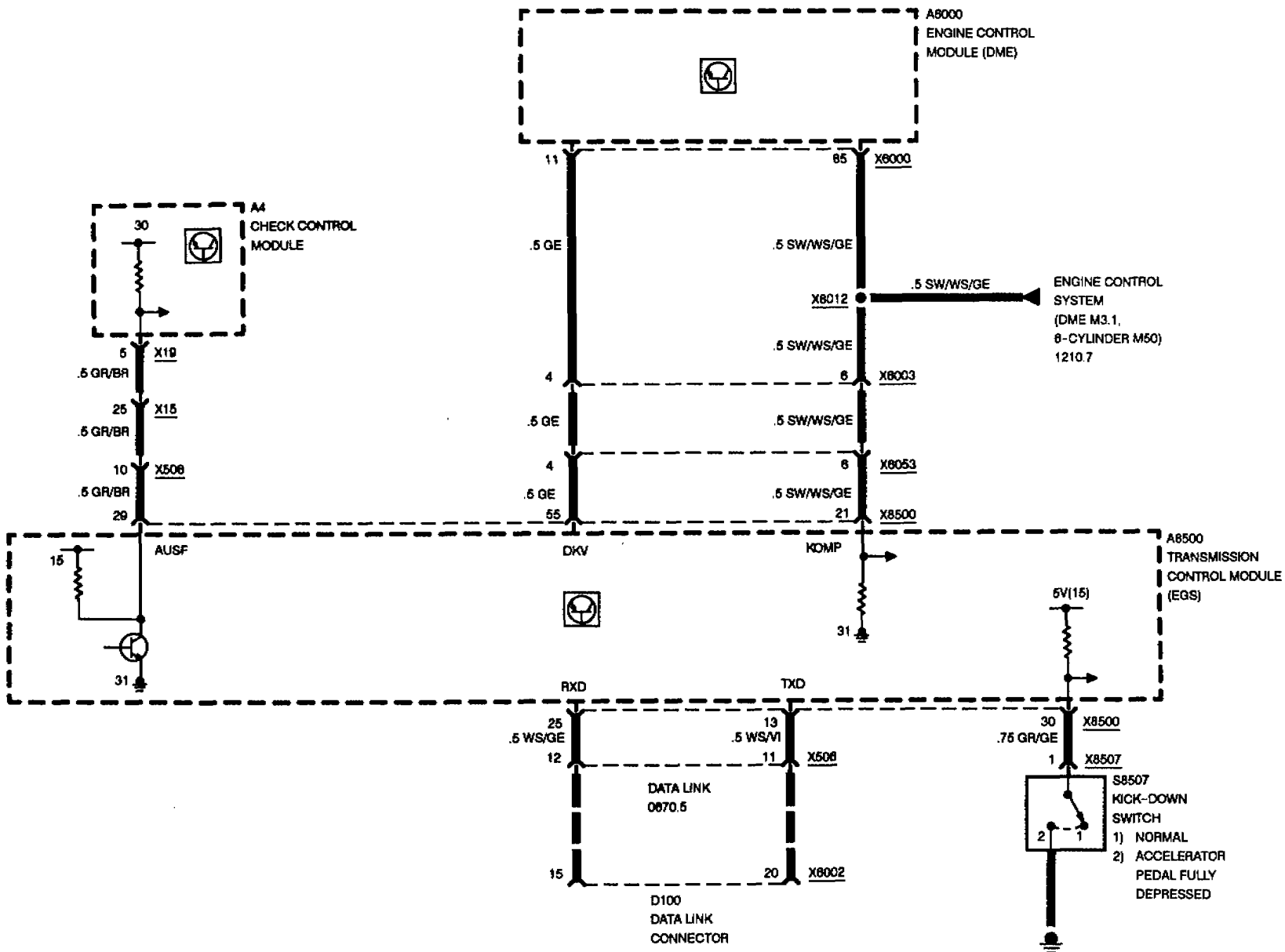
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



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

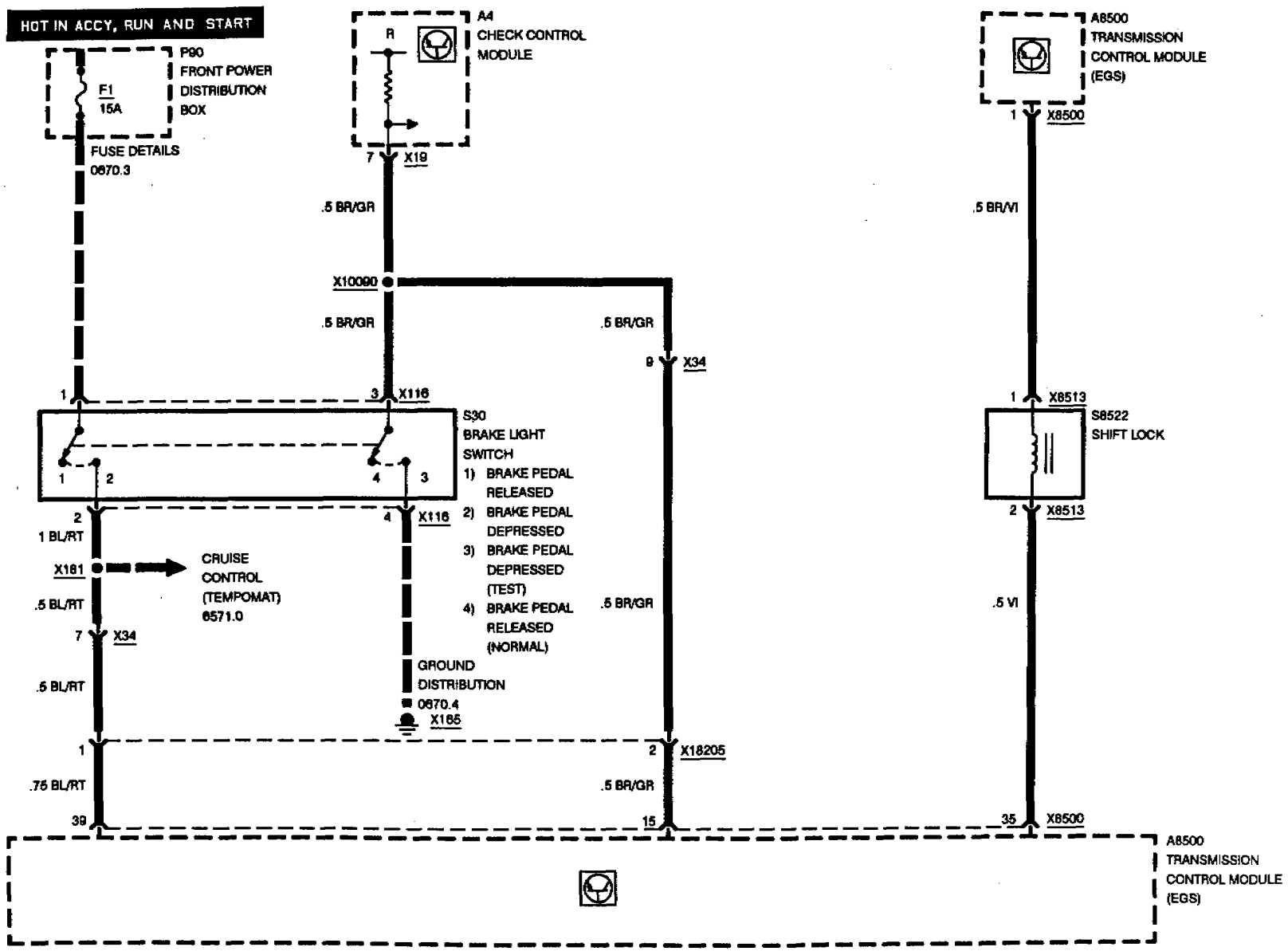
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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



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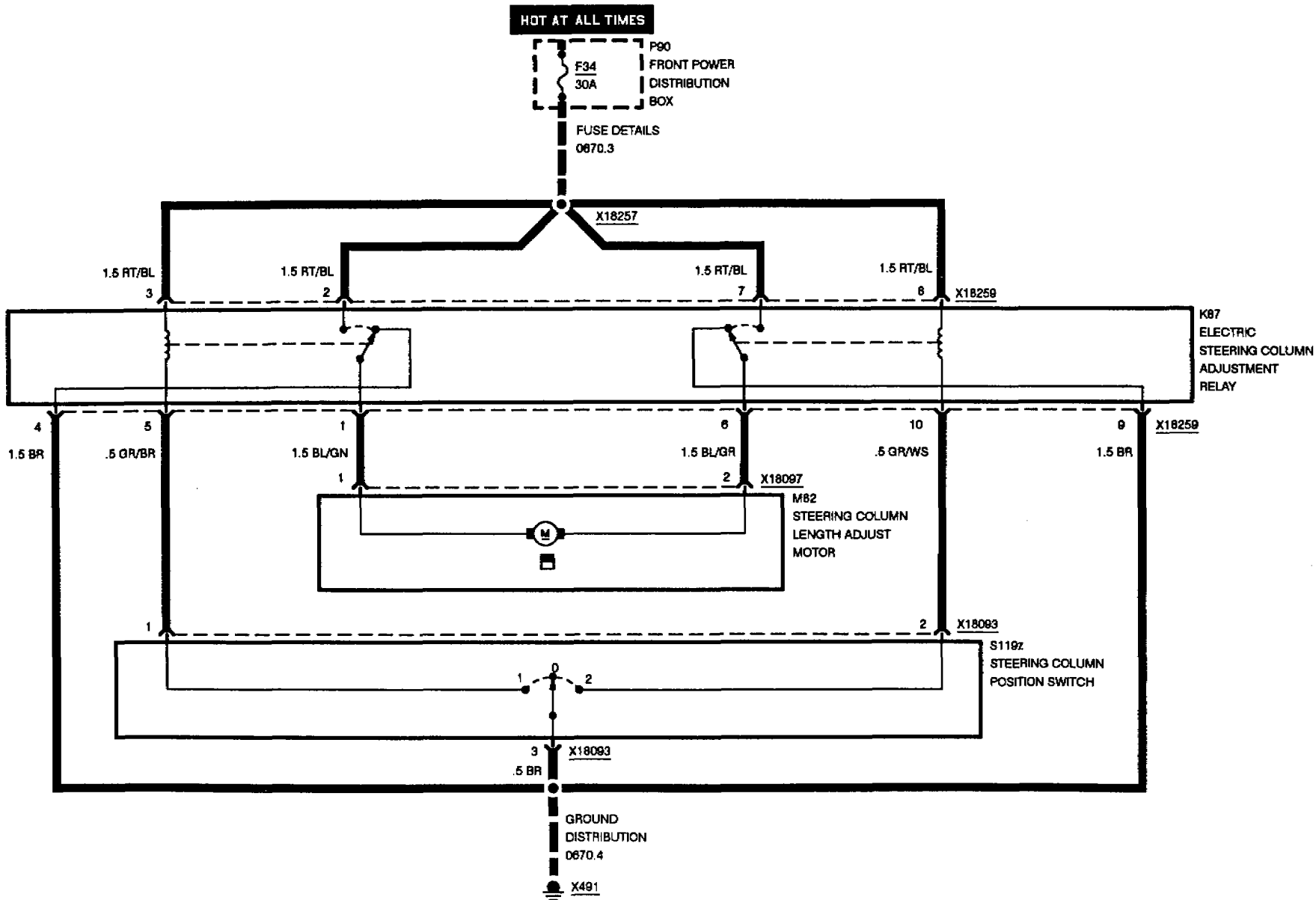
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



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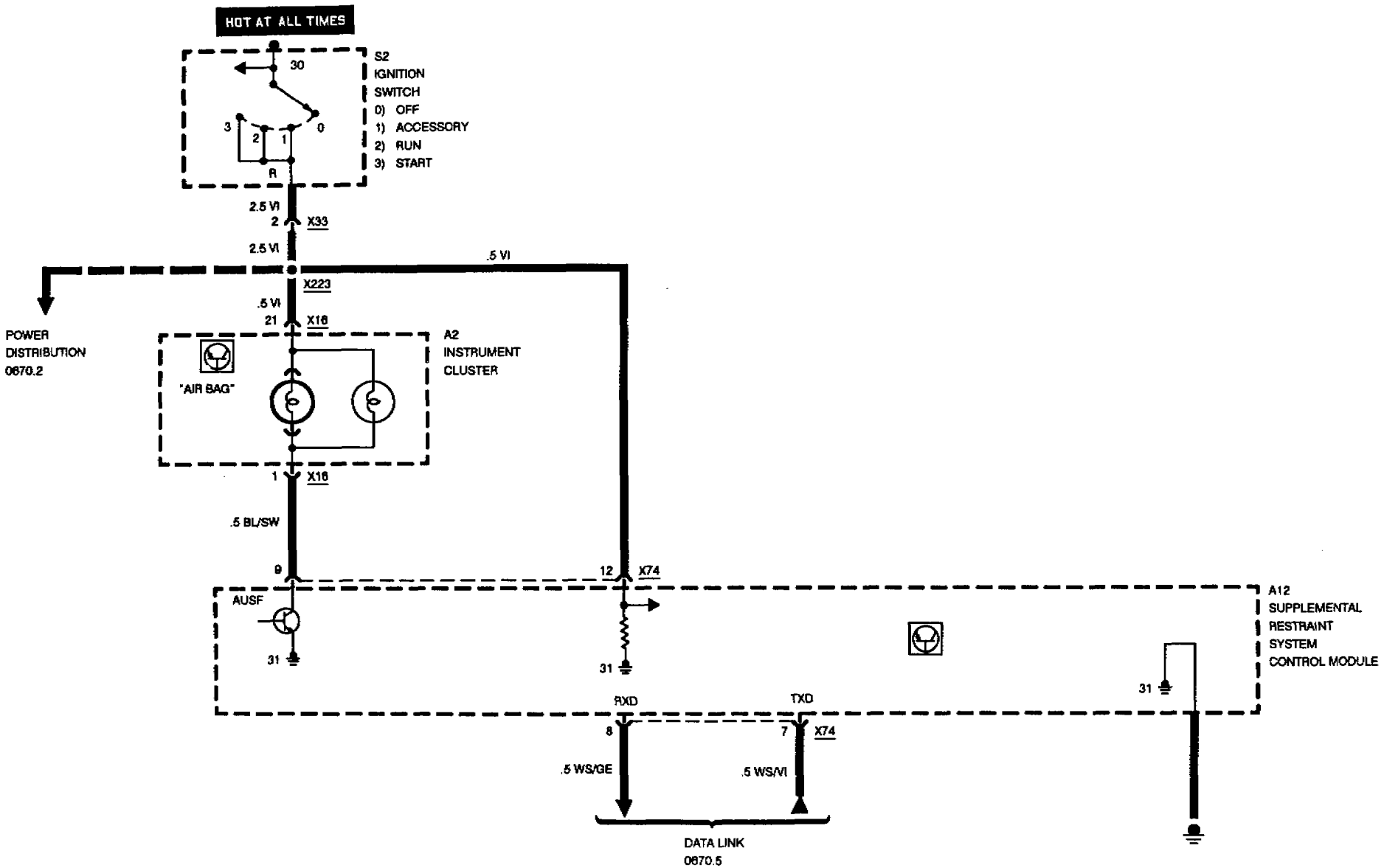
ELECTRIC STEERING COLUMN ADJUSTMENT



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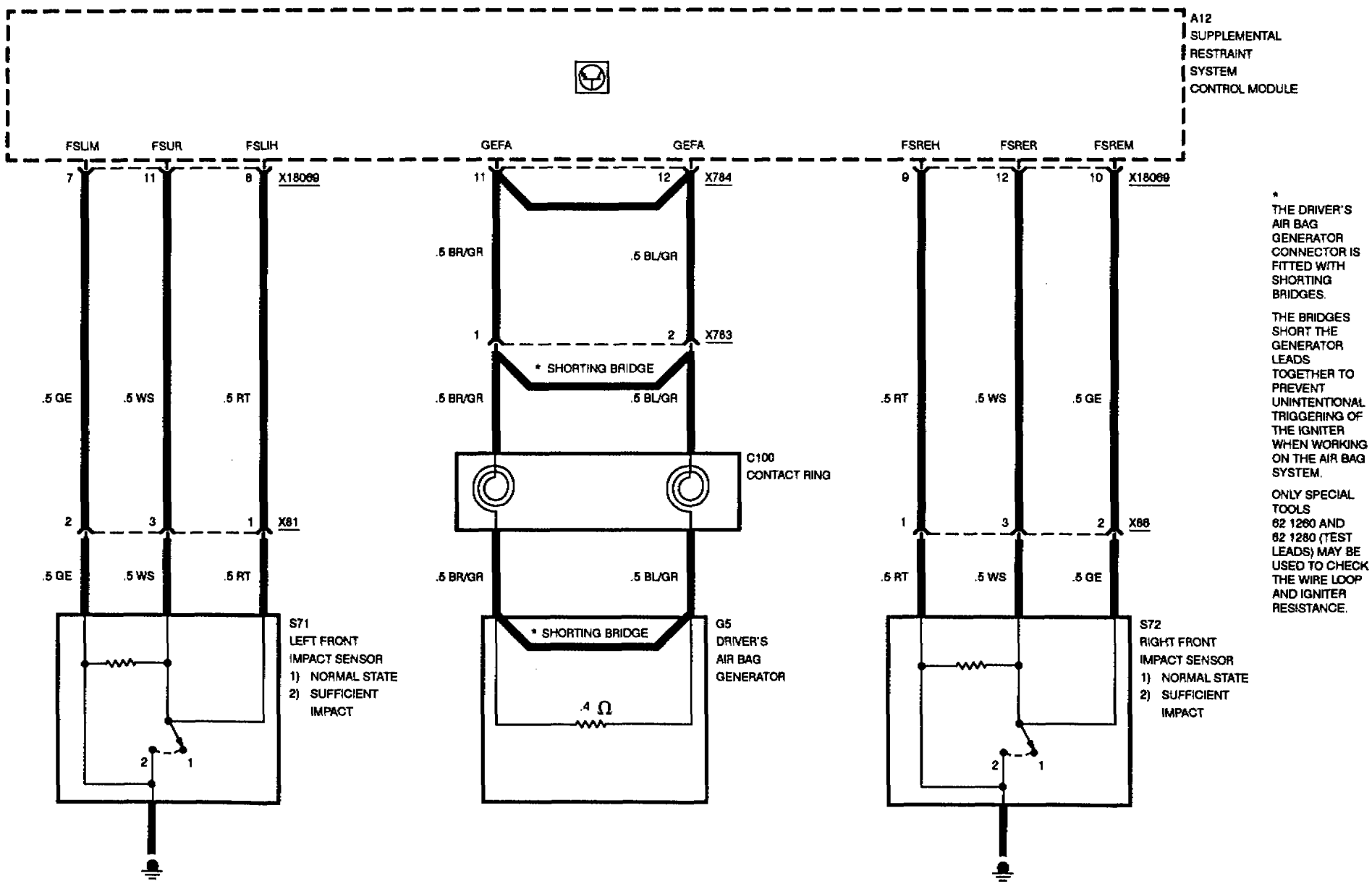
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SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



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SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



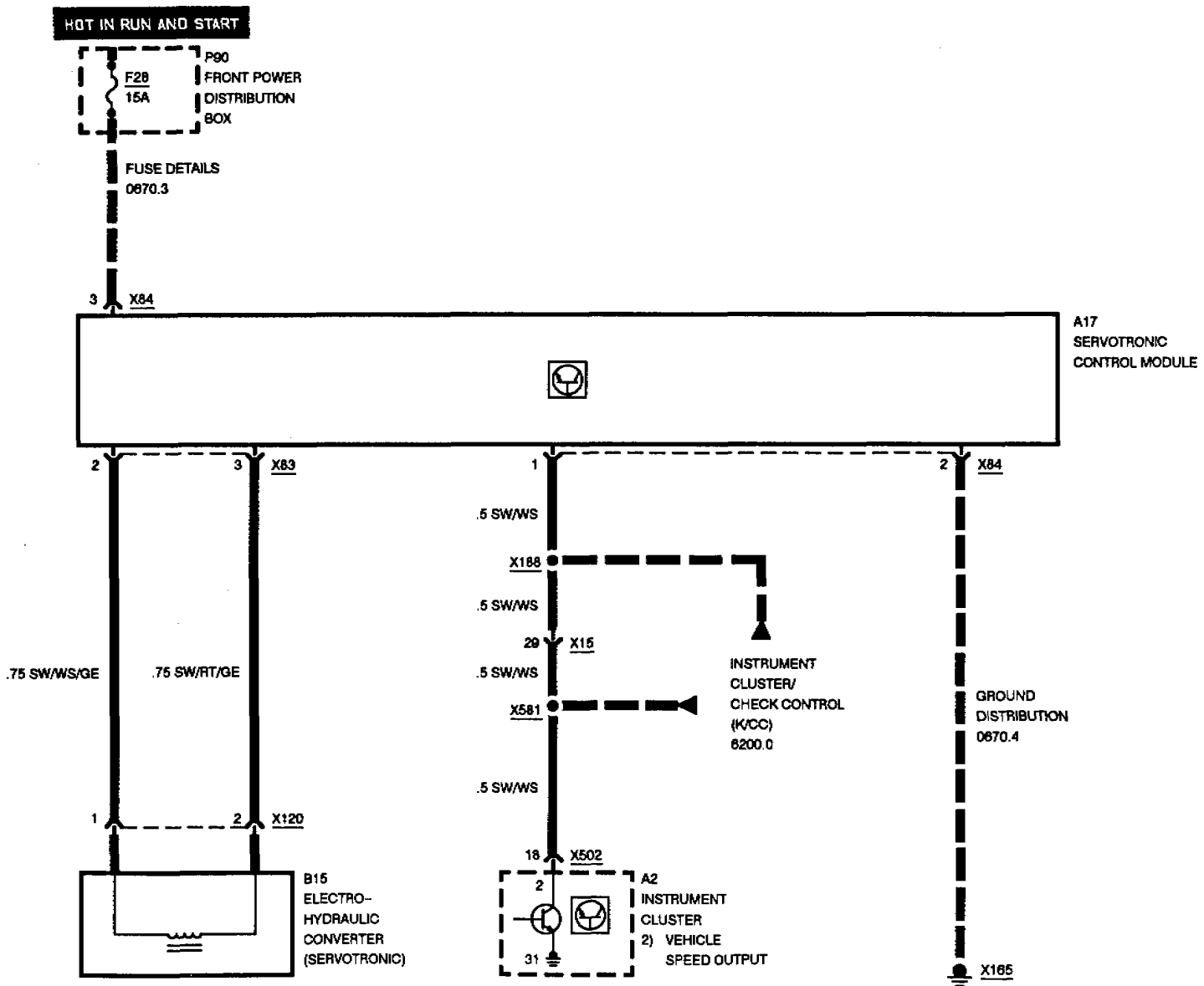
* THE DRIVER'S AIR BAG GENERATOR CONNECTOR IS FITTED WITH SHORTING BRIDGES.

THE BRIDGES SHORT THE GENERATOR LEADS TOGETHER TO PREVENT UNINTENTIONAL TRIGGERING OF THE IGNITER WHEN WORKING ON THE AIR BAG SYSTEM.

ONLY SPECIAL TOOLS 62 1260 AND 62 1280 (TEST LEADS) MAY BE USED TO CHECK THE WIRE LOOP AND IGNITER RESISTANCE.

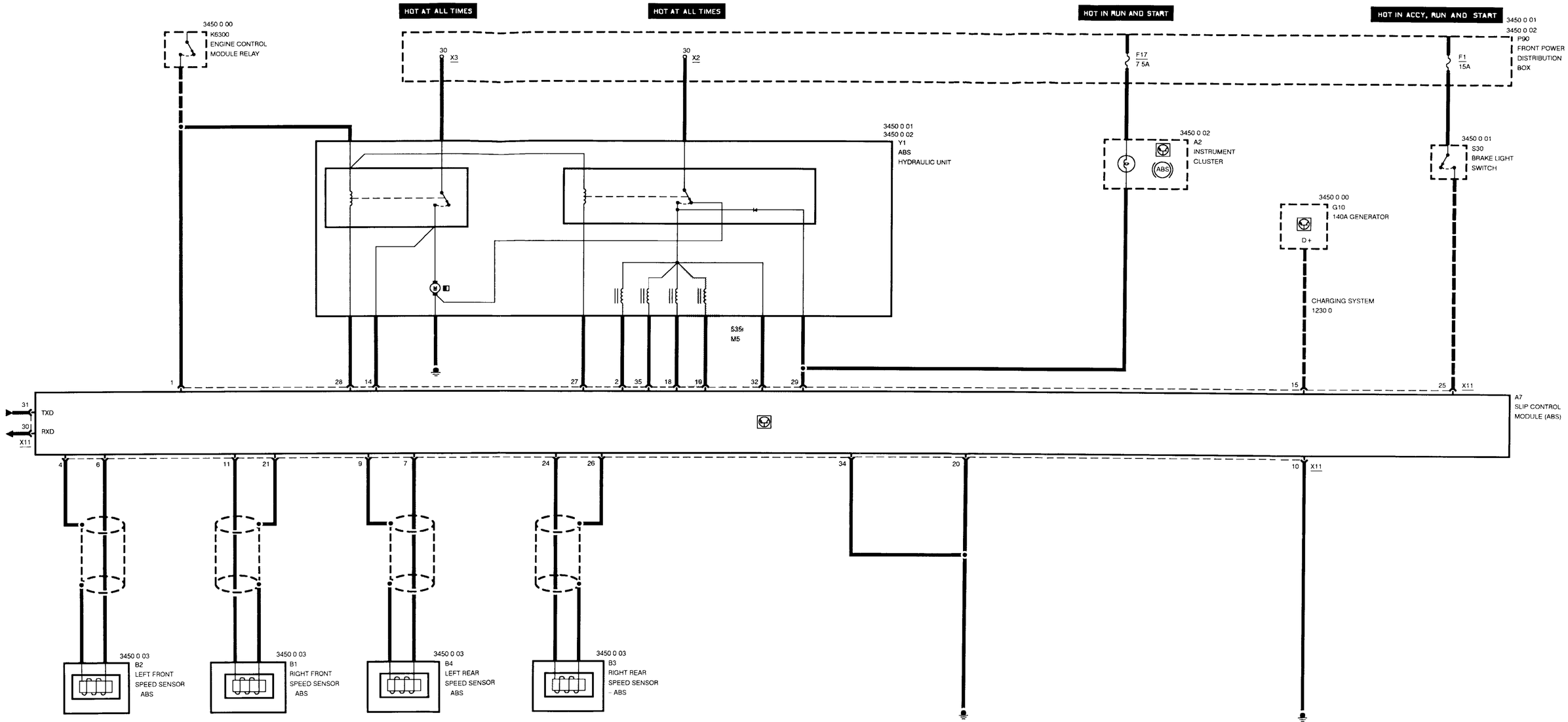
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POWER ASSIST STEERING (SERVOTRONIC)

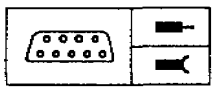


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Pin Assignments

X11

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Battery voltage	DME Relay	approx. 12 V		
2	A	Left front solenoid control	Front left solenoid valve	Ground		
3		Not used				
4	E	Ground	Front left speed sensor	Ground		
5		Not used				
6	E	Speed sensor signal	Front left speed sensor			
7	E	Speed sensor signal	Rear left speed sensor			
8		Not used				
9	E	Ground	Rear left speed sensor	Ground		
10	M	Ground, control unit	Ground	Ground		
11	E	Speed sensor signal	Front right speed sensor			
12		Not used				
13		Not used				
14	E	Pump relay monitor	Pump relay			
15	E	Battery voltage	Alternator	approx. 12 V		
16		Not used				
17		Not used				
18	A	Rear left solenoid control	Rear left solenoid valve	Ground		
19	A	Rear right solenoid control	Rear right solenoid valve	Ground		535i, M5

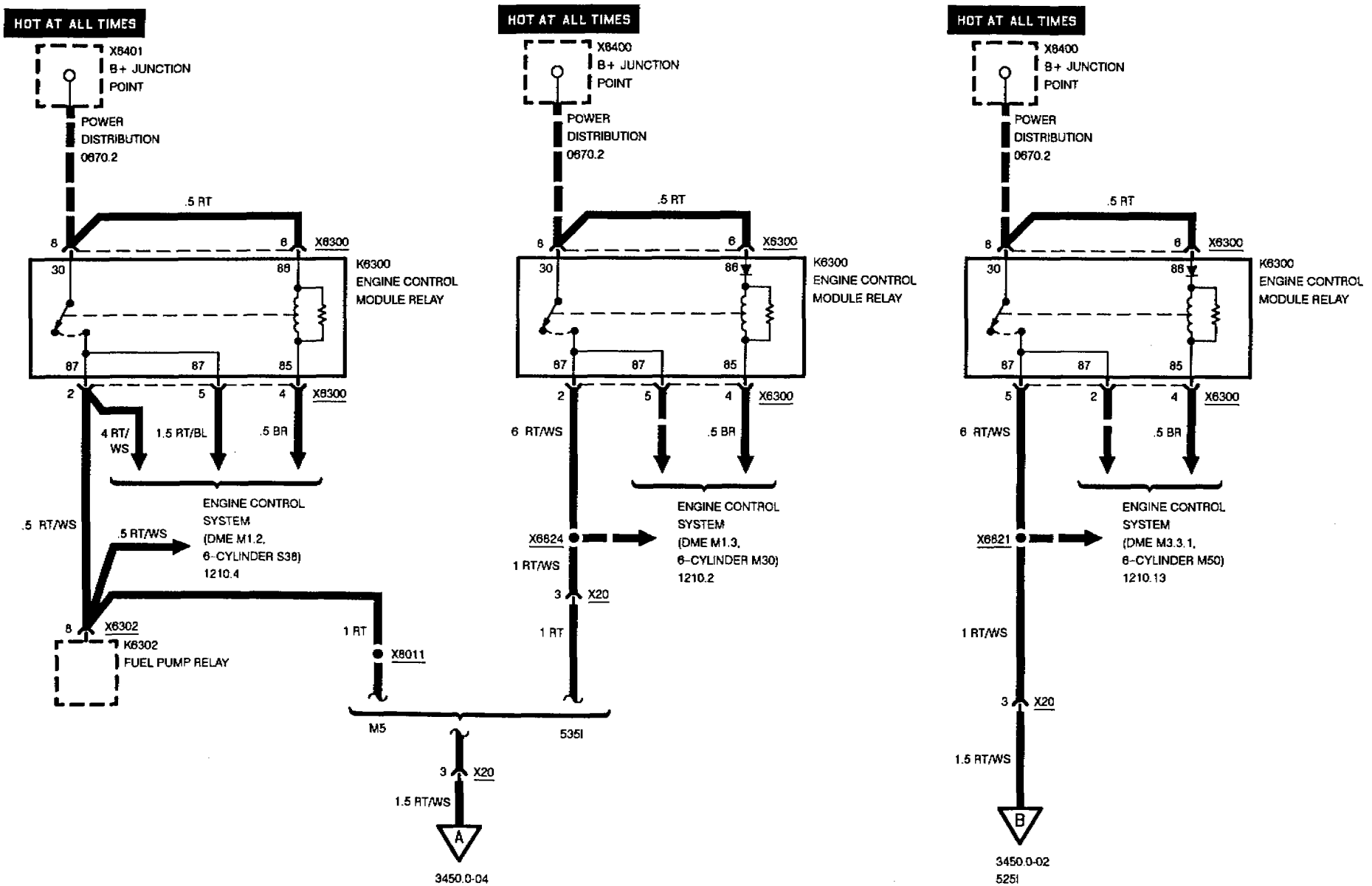
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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
20	M	Ground, control unit	Ground	Ground		
21	E	Ground	Front right speed sensor	Ground		
22		Not used				
23		Not used				
24	E	Speed sensor signal	Rear right speed sensor			
25	E	Brake pedal status	Brake light switch			
26	E	Ground	Rear right speed sensor	Ground		
27	A	Valve relay control	Valve relay	Ground		
28	A	Pump relay control	Pump relay	Ground		
29	A	Warning lamp control	Instrument cluster	Ground		
30	A	RxD	Diagnostic connector			
31	E	TxD	Diagnostic connector			
32	E	Display, valve relay	Valve relay			
33		Not used				
34	M	Ground, control unit	Ground	Ground		
35	A	Front right solenoid control	Front right solenoid valve	Ground		

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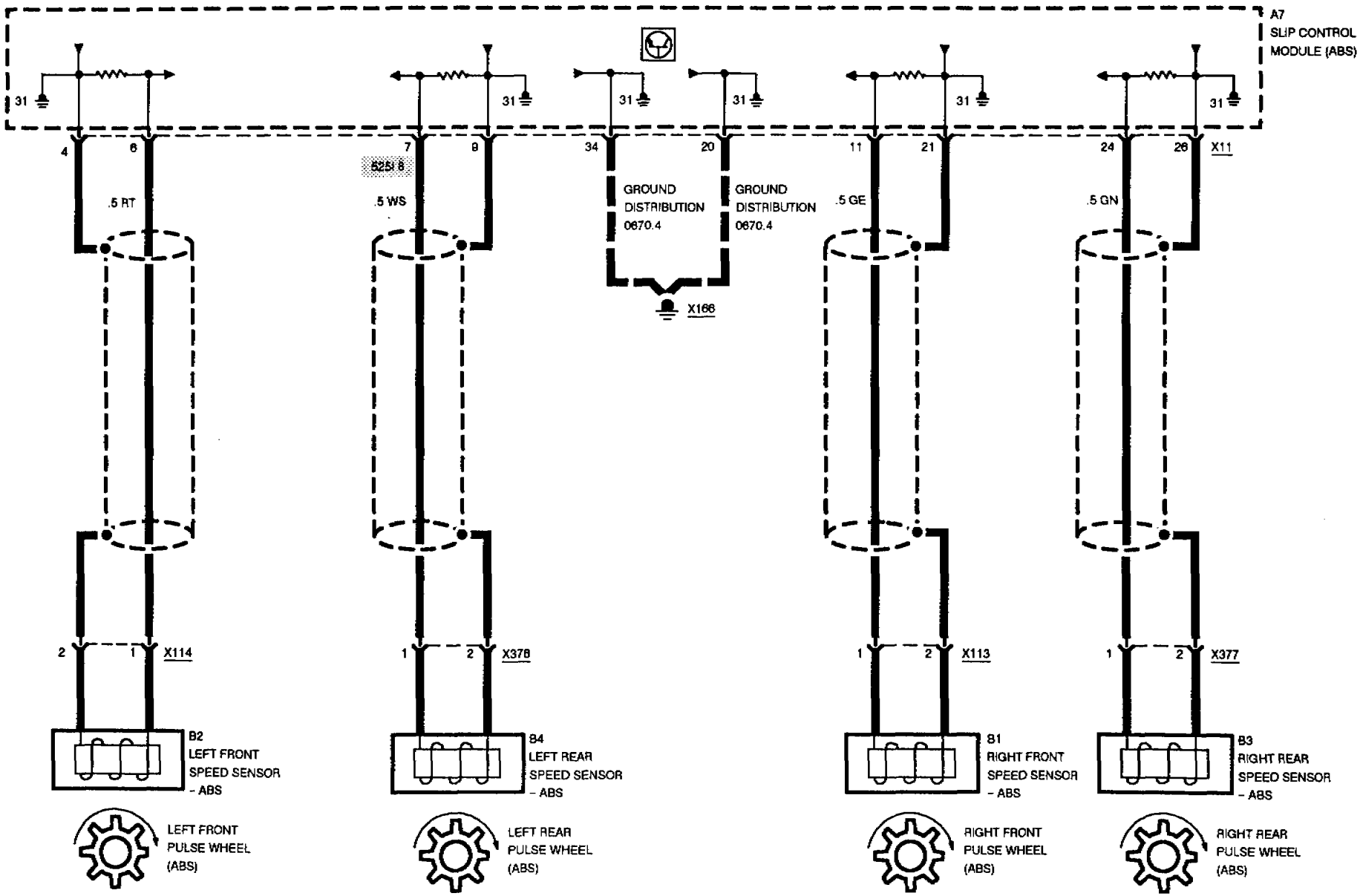
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SLIP CONTROL (ABS)



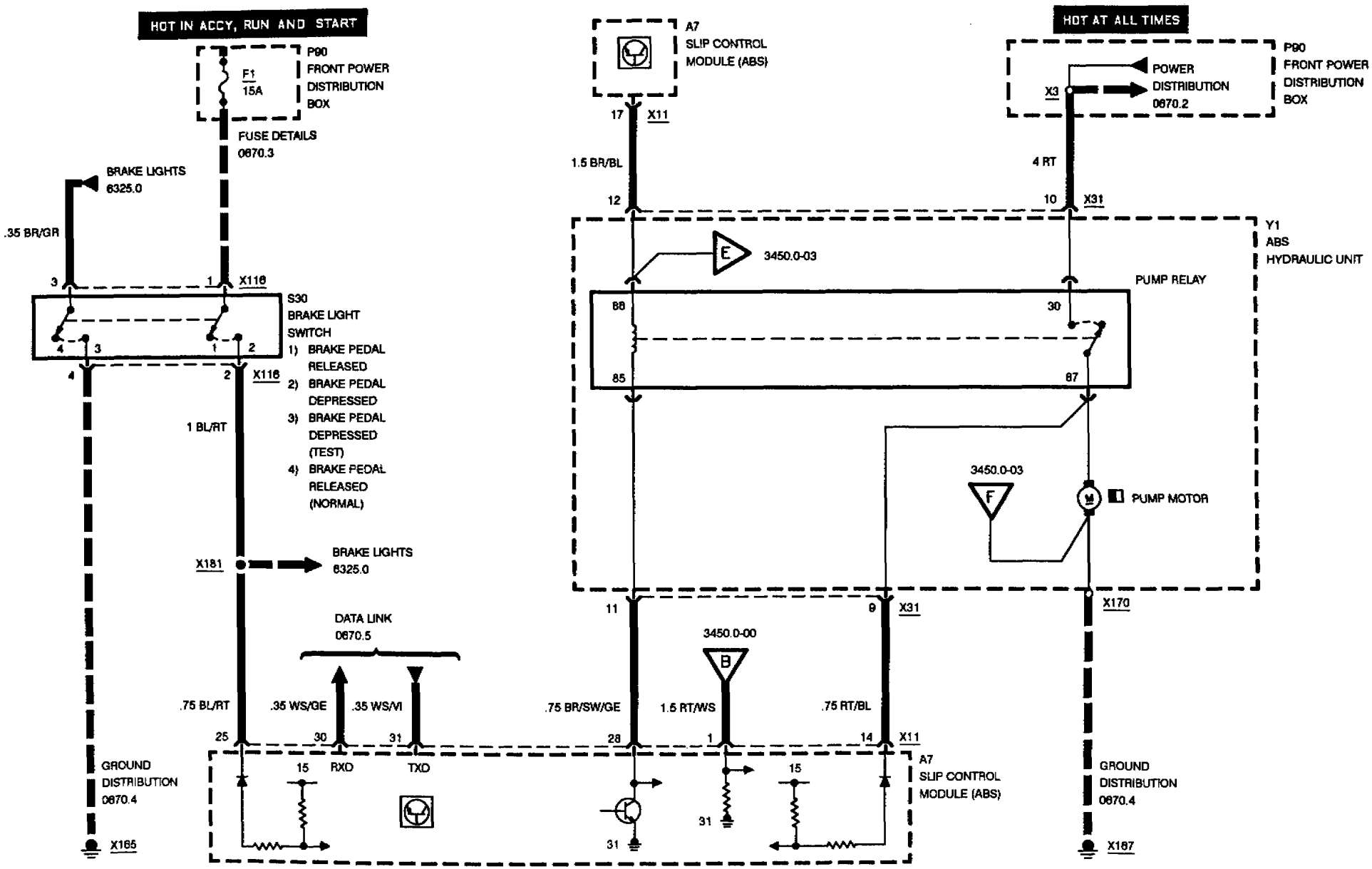
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SLIP CONTROL (ABS)



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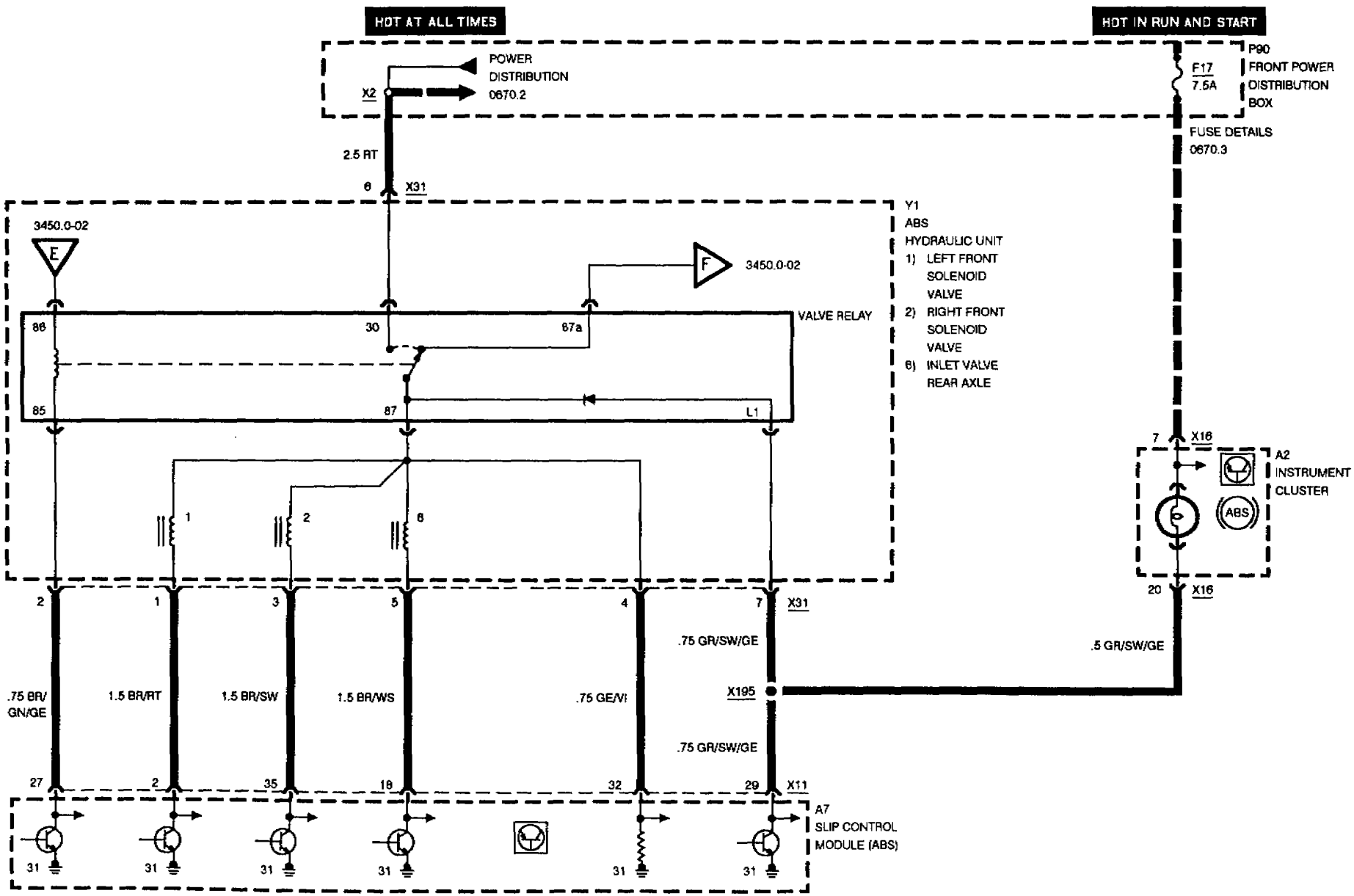
SLIP CONTROL (ABS)



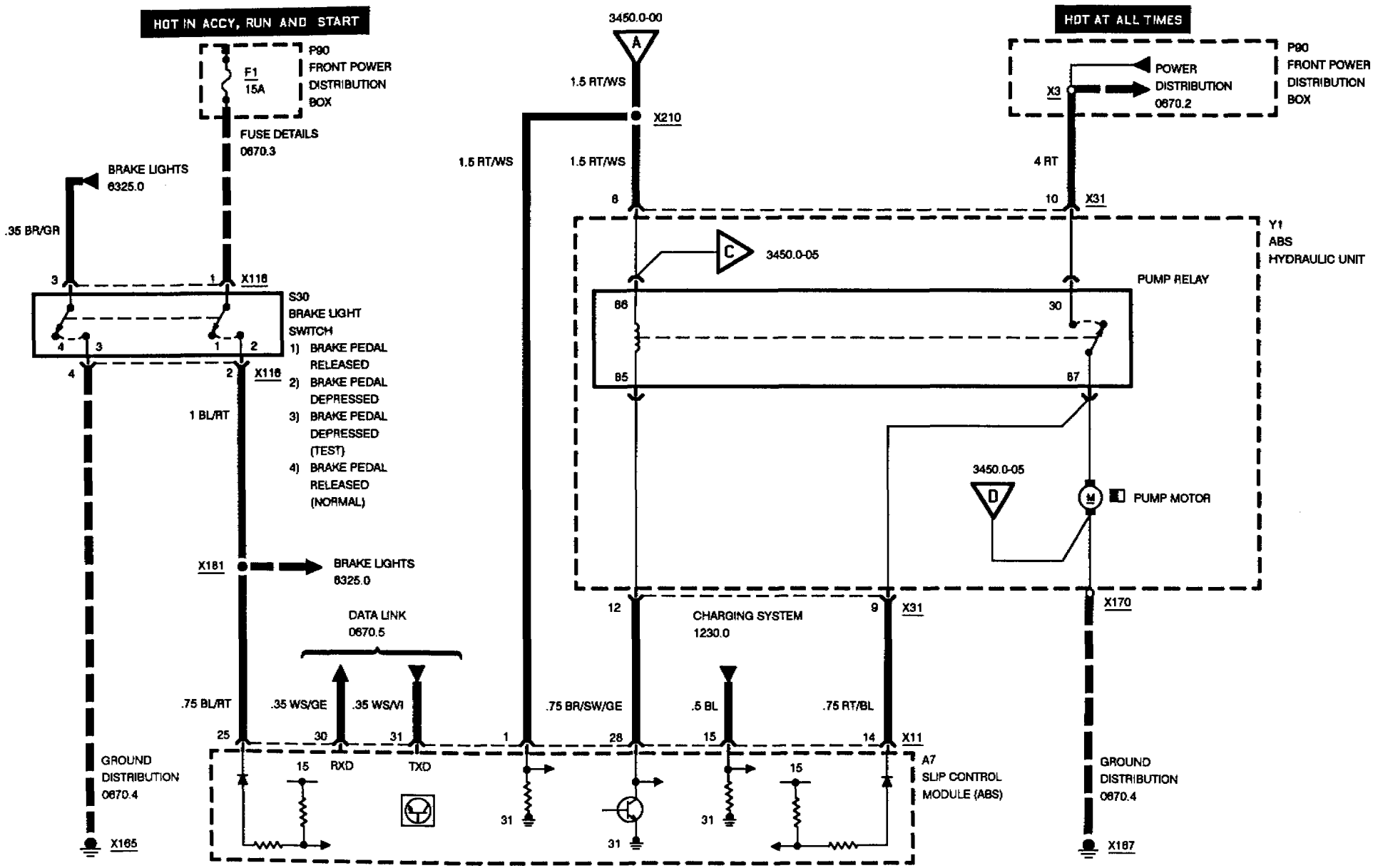
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SLIP CONTROL (ABS)

525i

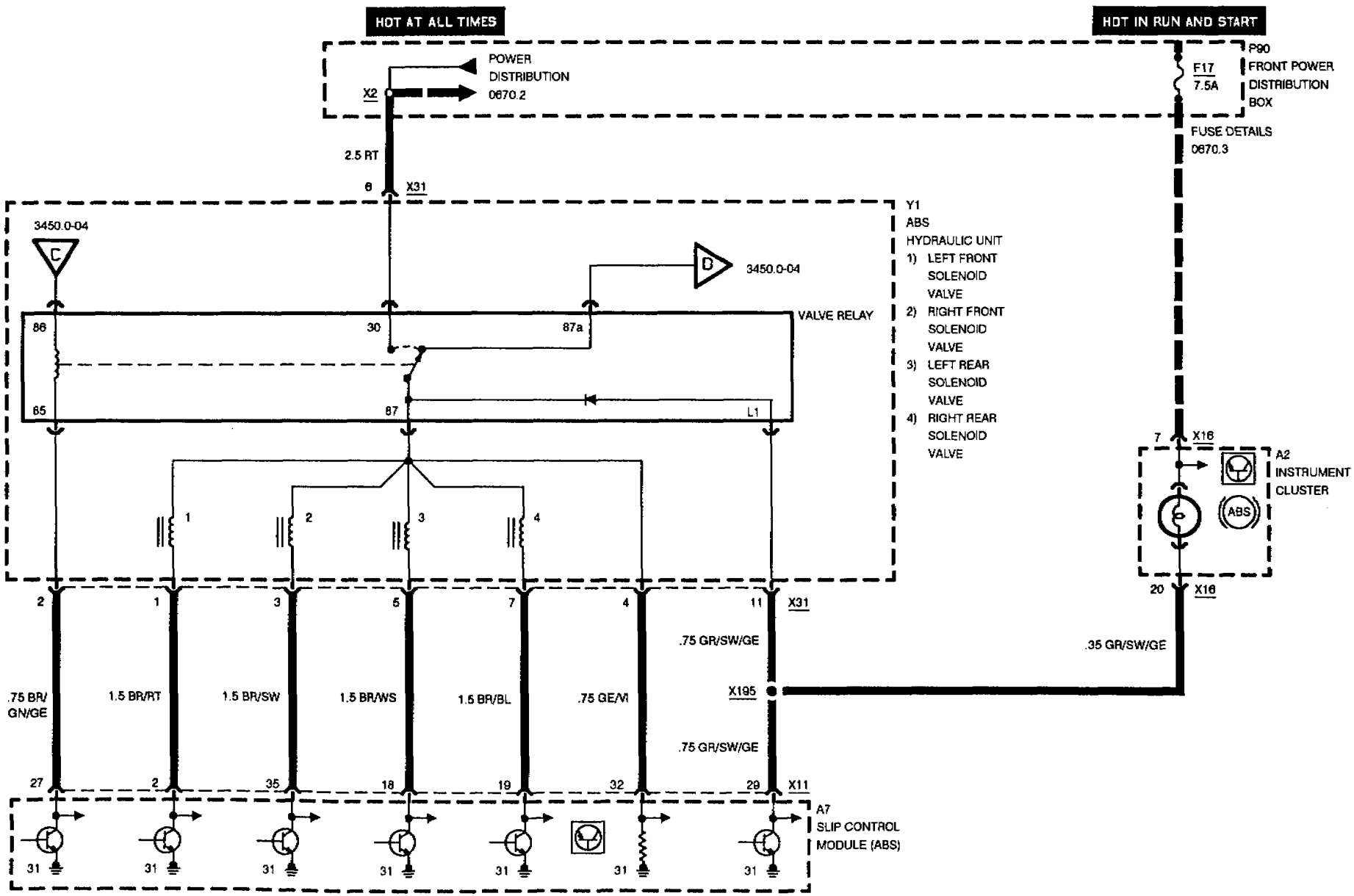


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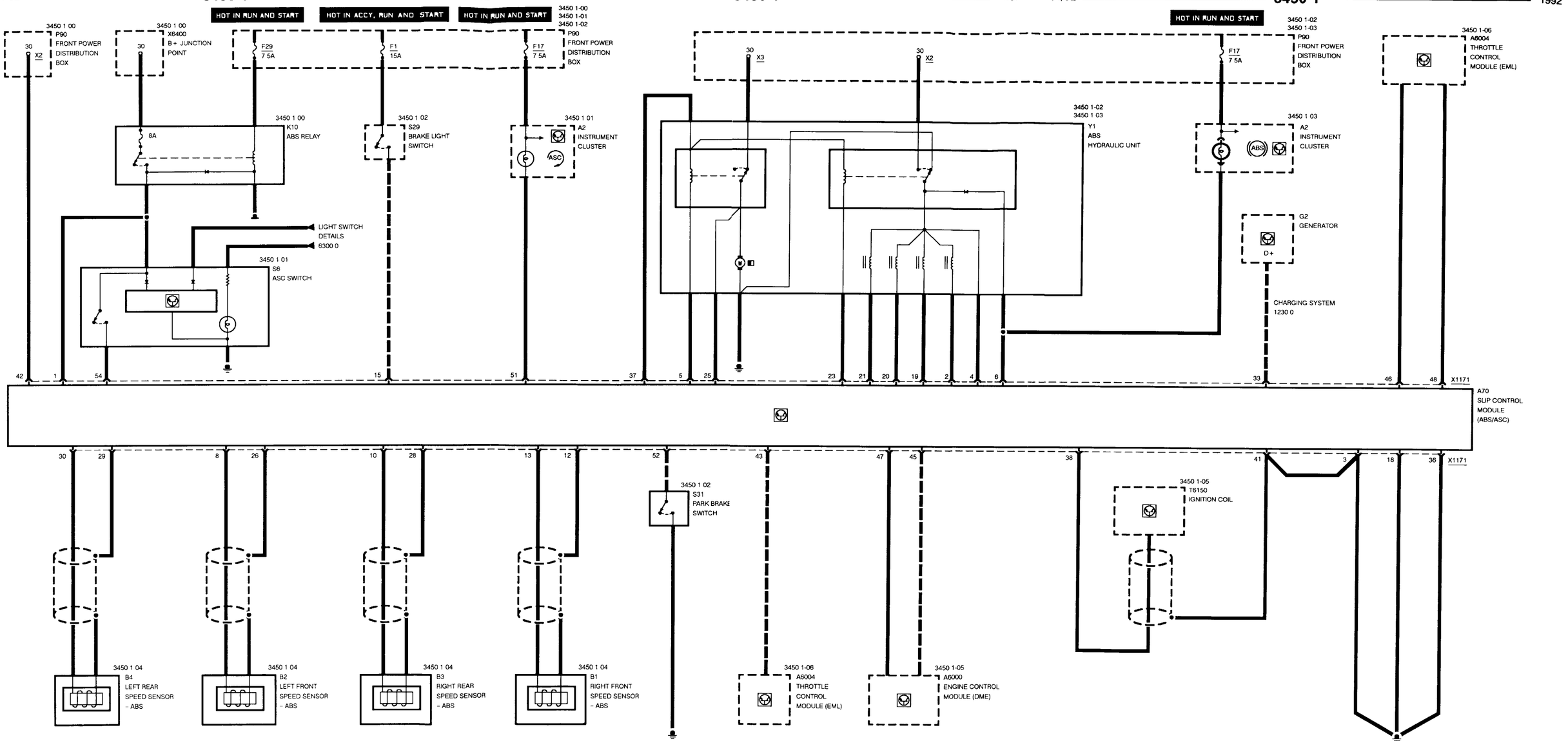
SLIP CONTROL (ABS)



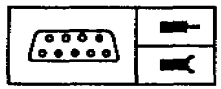
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Pin Assignments

X1171

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Battery voltage	ABS relay	approx. 12 V		
2	A	Right rear solenoid control	Right rear solenoid valve	Ground		
3	M	Ground, control unit	Connection, Pin 41 and ground	Ground		
4	E	Power	Valve relay			
5	E	Controlled ground	Pump relay	Ground		
6	A	ABS lamp control	Instrument cluster	Ground		
7		Not used				
8	E	Speed signal	Left front speed sensor			
9		Not used				
10	E	Speed signal	Right rear speed sensor			
11		Not used				
12	E	Sensor ground	Right front speed sensor	Ground		
13	E	Speed signal	Right front speed sensor			
14		Not used				
15	E	Brake pedal status	Brake light switch	Ground		
16		Not used				
17		Not used				
18	M	Ground, control unit	Ground	Ground		

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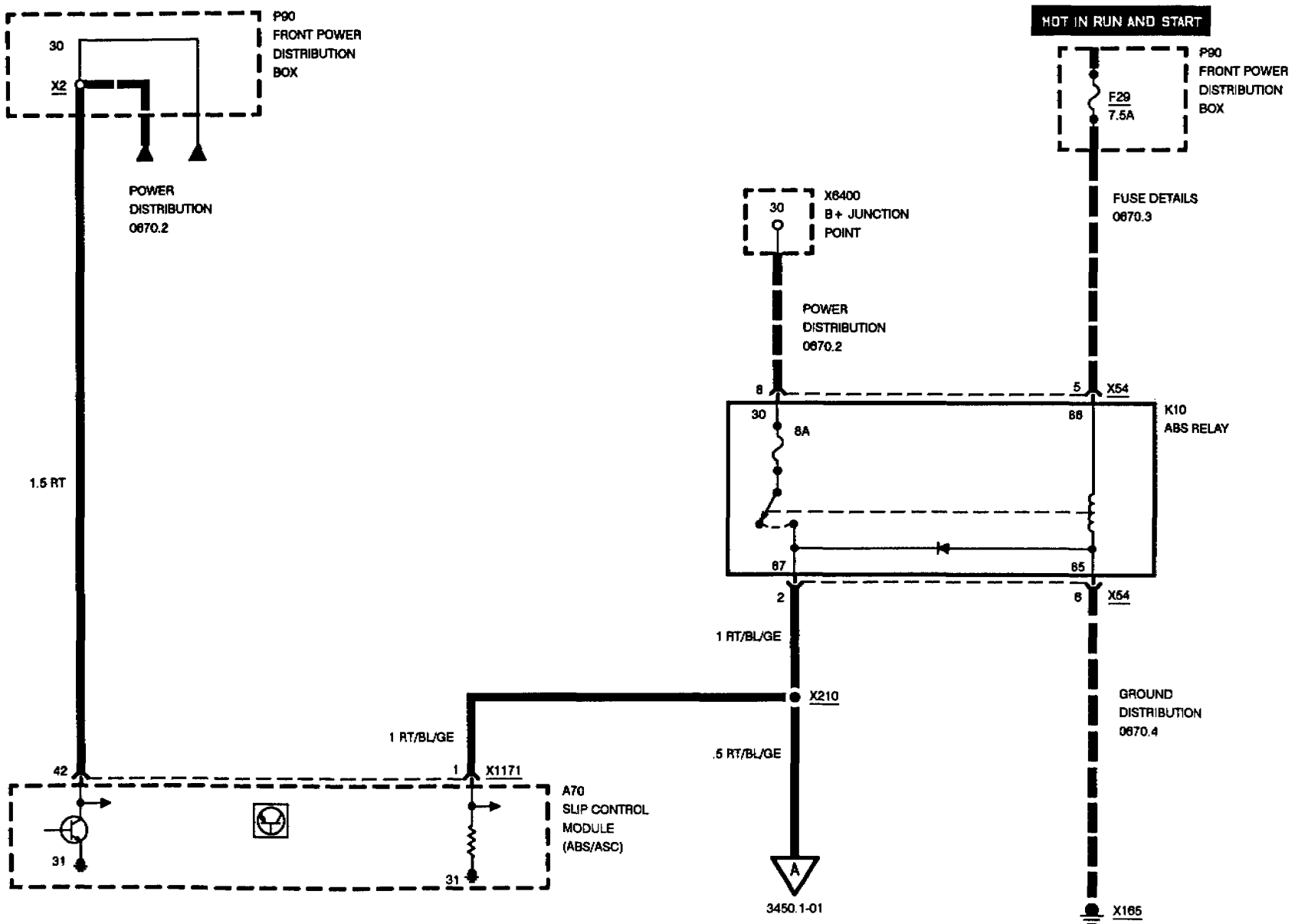
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
19	A	Left rear solenoid control	Left rear solenoid valve	Ground		
20	A	Right front solenoid control	Right front solenoid valve	Ground		
21	A	Left front solenoid control	Left front solenoid valve	Ground		
22		Not used				
23	E	Valve relay control	Valve relay	Ground		
24		Not used				
25	E	Pump relay monitor	Pump relay			
26	E	Sensor ground	Front left speed sensor	Ground		
27		Not used				
28	E	Sensor ground	Right rear speed sensor	Ground		
29	E	Sensor ground	Left rear speed sensor	Ground		
30	E	Speed signal	Left rear speed sensor			
31		Not used				
32		Not used				
33	E	Charging voltage	Alternator	approx. 12 V		
34		Not used				
35		Not used				
36	M	Ground, control unit	Ground	Ground		
37	A	Power signal	Pump relay			
38	E	Ignition timing signal	Ignition coil			
39		Not used				
40		Not used				
41	M	Ground	Connection, Pin 3	Ground		
42	E	Battery voltage	Power distribution box	approx. 12 V		

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
43	A	EML-Signal	EML-Module			
44		Not used				
45	E	Ignition cut-off signal	DME-Module			
46	E	Throttle signal	EML-Module			
47	E	DME-signal	DME-Module			
48	E	Throttle signal	EML-Module			
49		Not used				
50		Not used				
51	A	ASC lamp control	Instrument cluster	Ground		
52	E	Park brake signal	Park brake switch	Ground		
53		Not used				
54	E	Switch signal	ASC-Switch			
55		Not used				

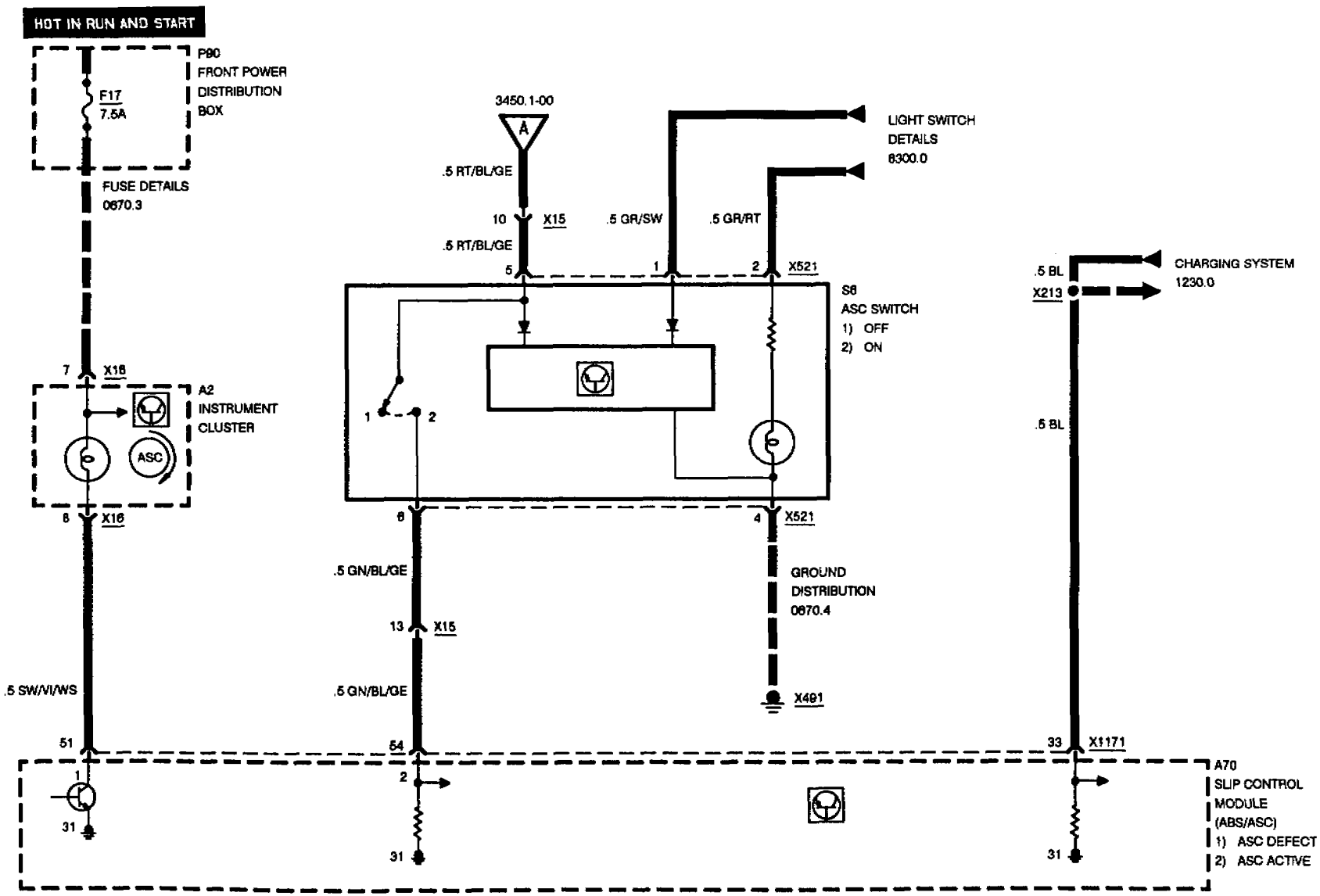
cardiagn.com

SLIP CONTROL (ABS/ASC)



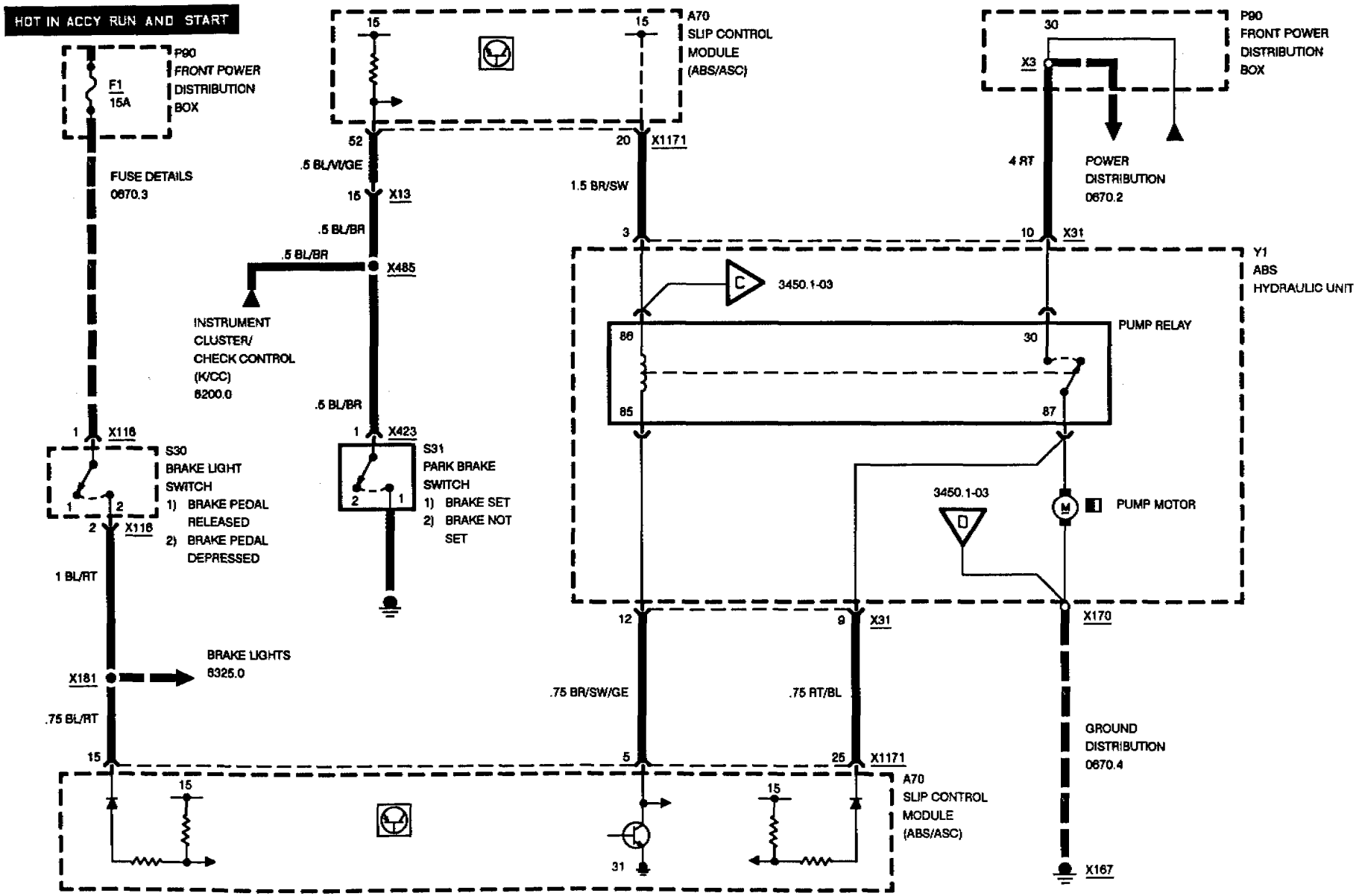
cardiagn.com

SLIP CONTROL (ABS/ASC)



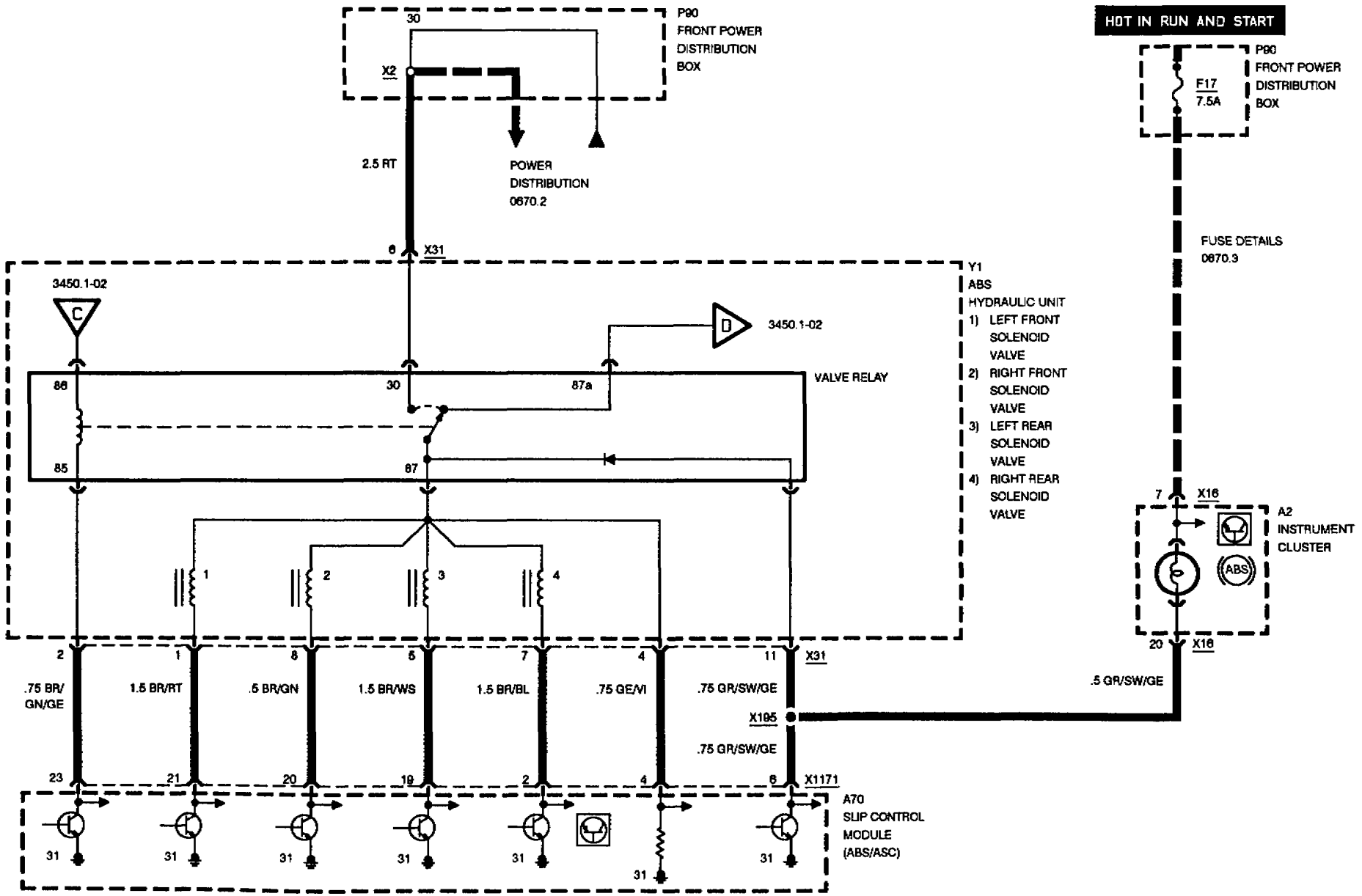
carlabg.com

SLIP CONTROL (ABS/ASC)



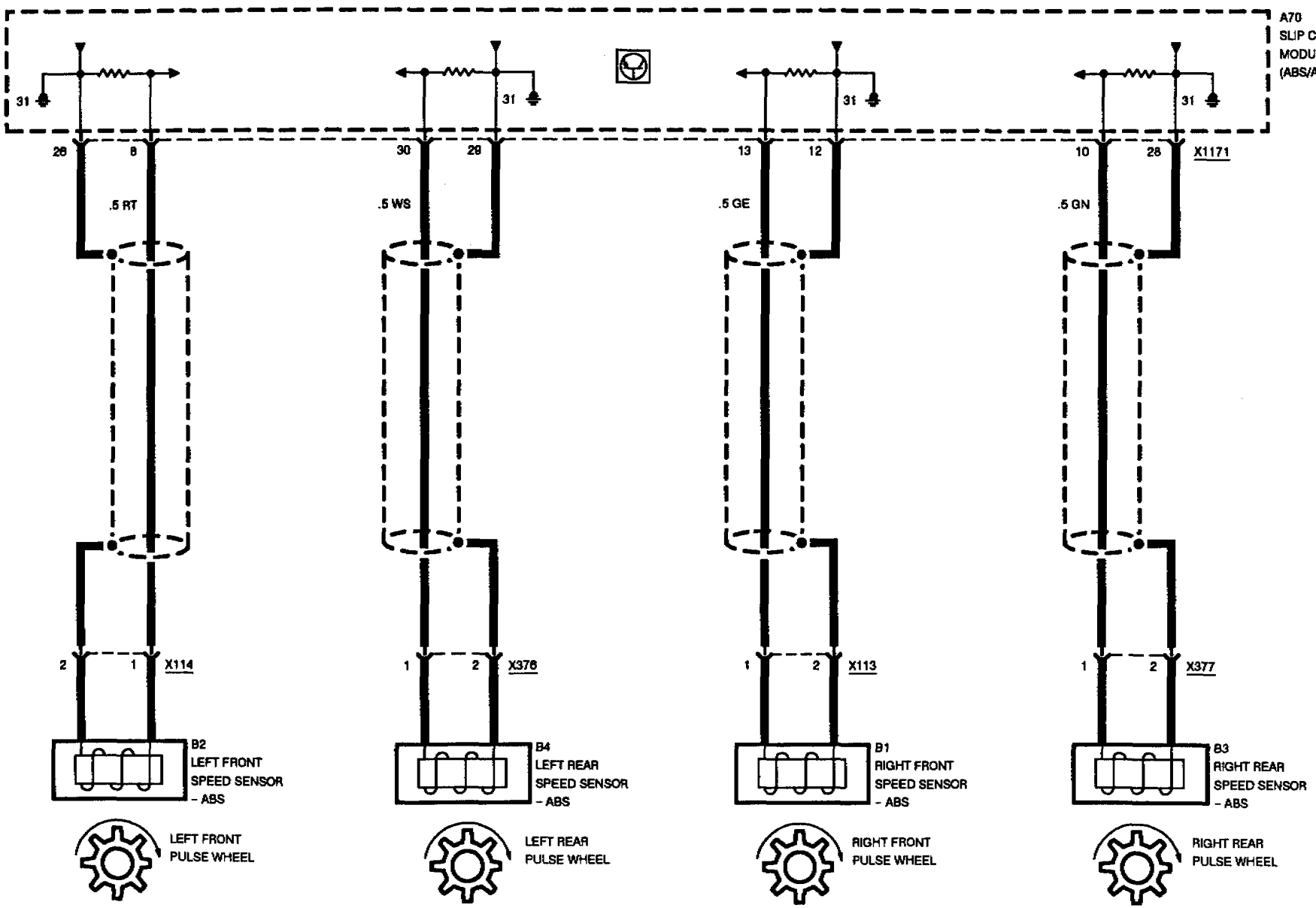
cardiagn.com

SLIP CONTROL (ABS/ASC)



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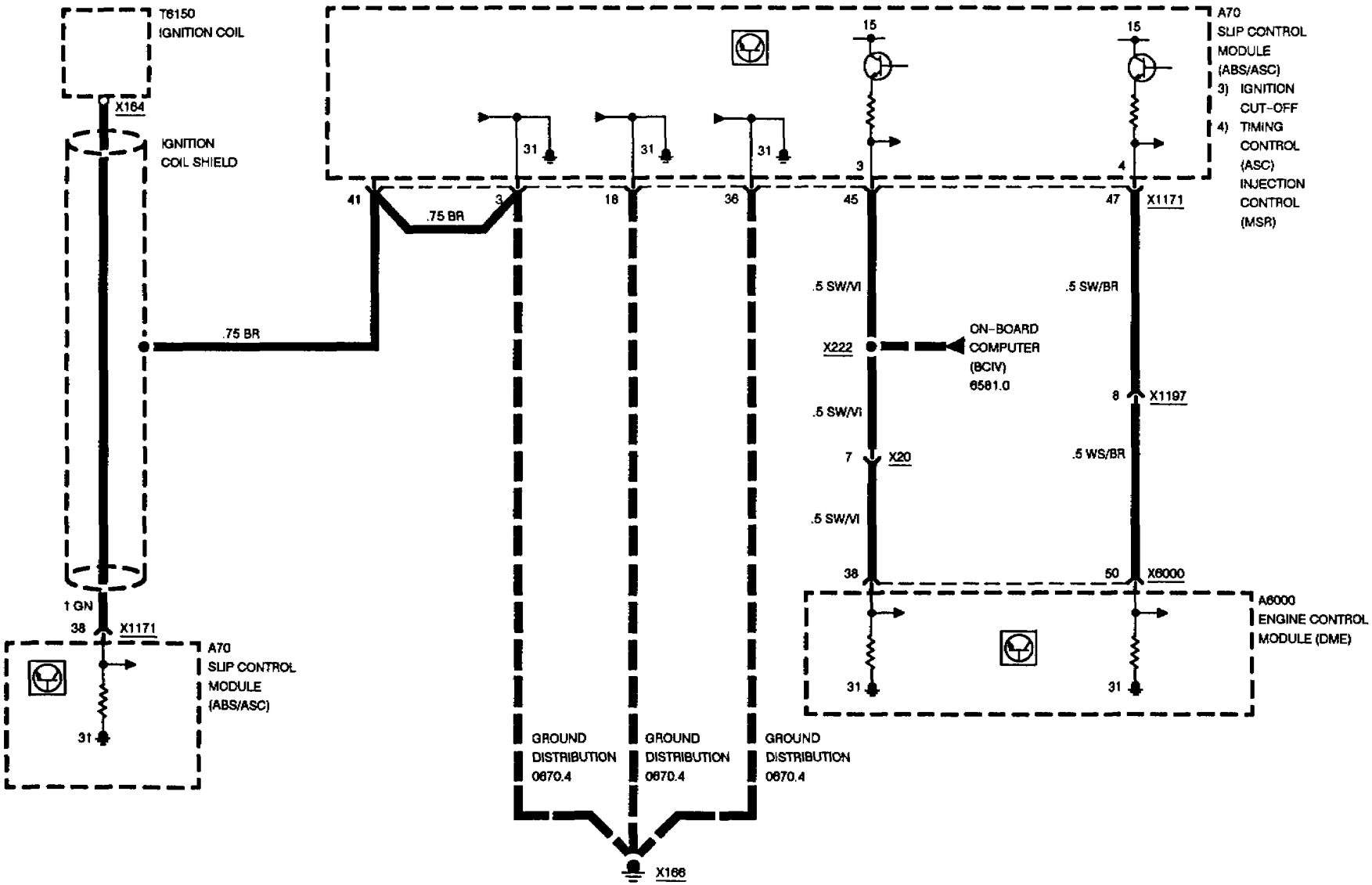
SLIP CONTROL (ABS/ASC)



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SLIP CONTROL (ABS/ASC)

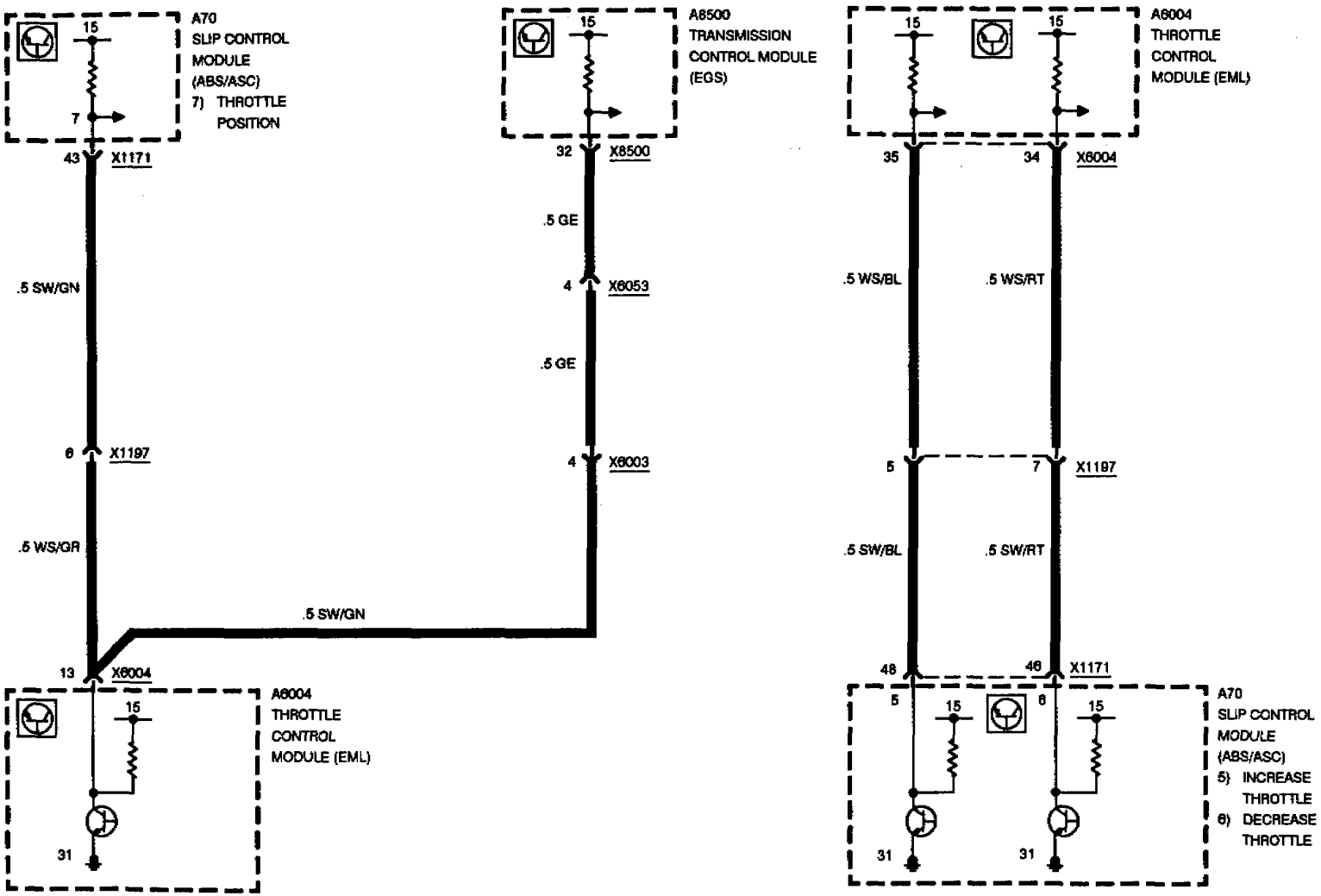
ENGINE CONTROL (DME) INTERFACE



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SLIP CONTROL (ABS/ASC)

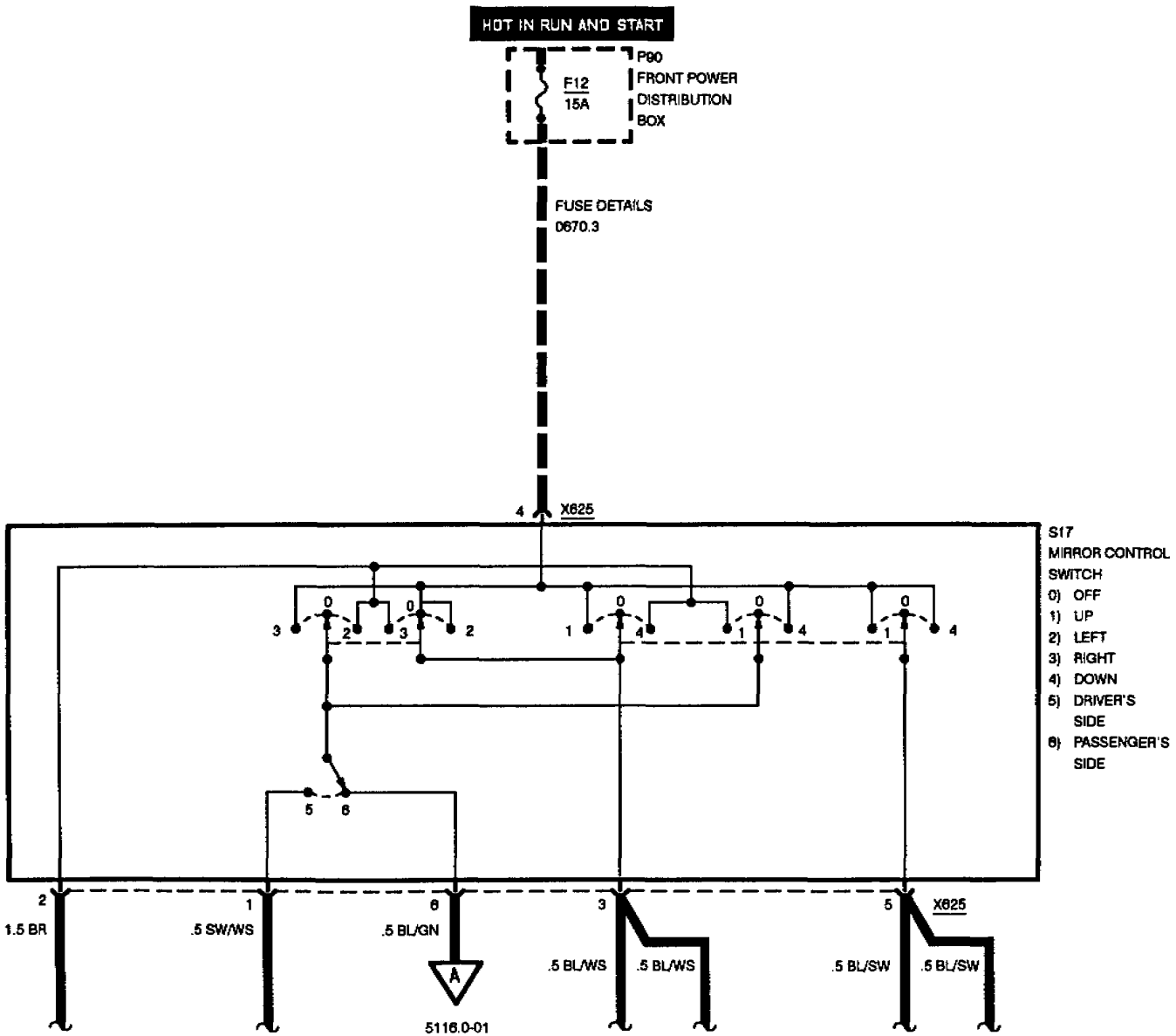
EML INTERFACE



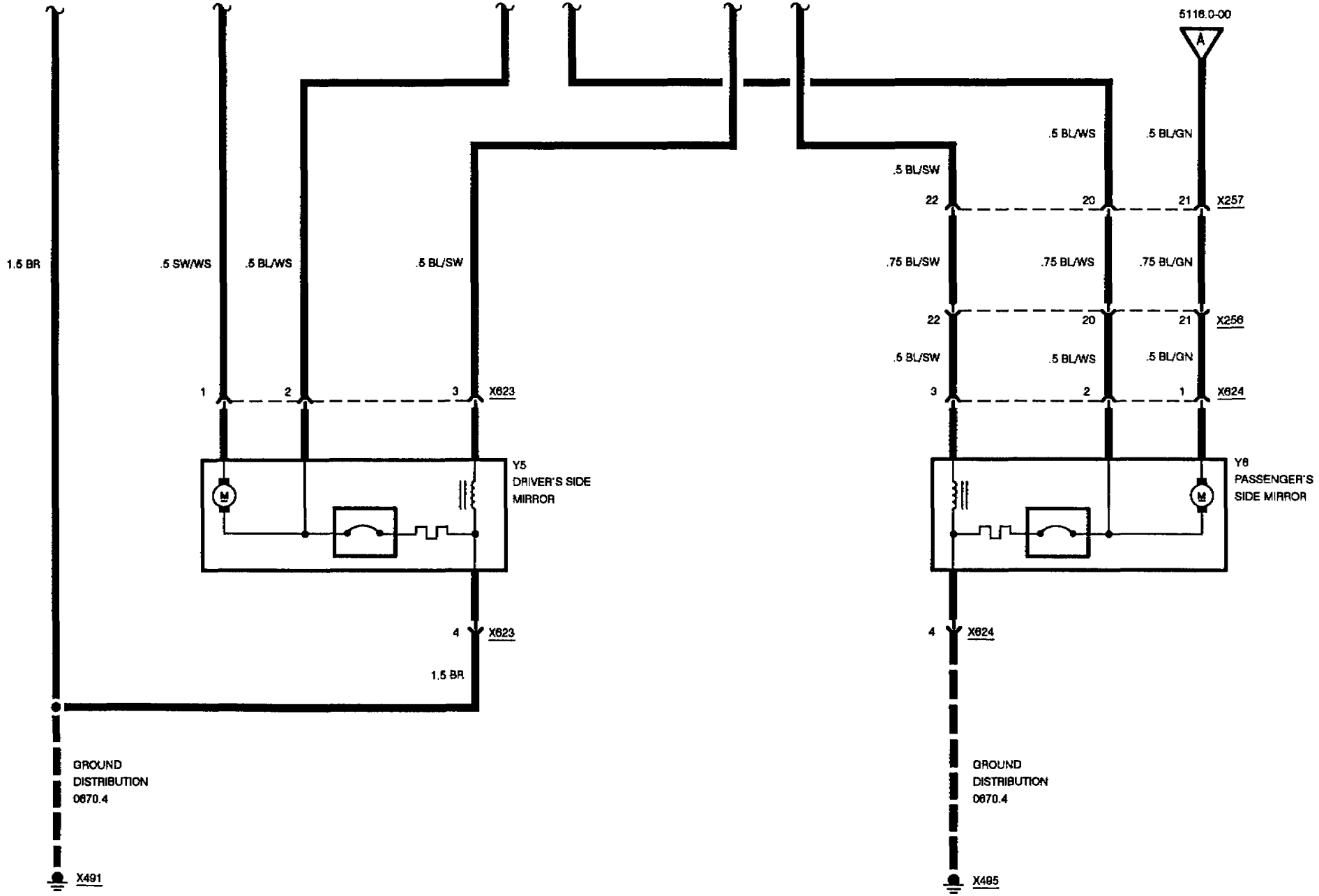
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POWER MIRRORS



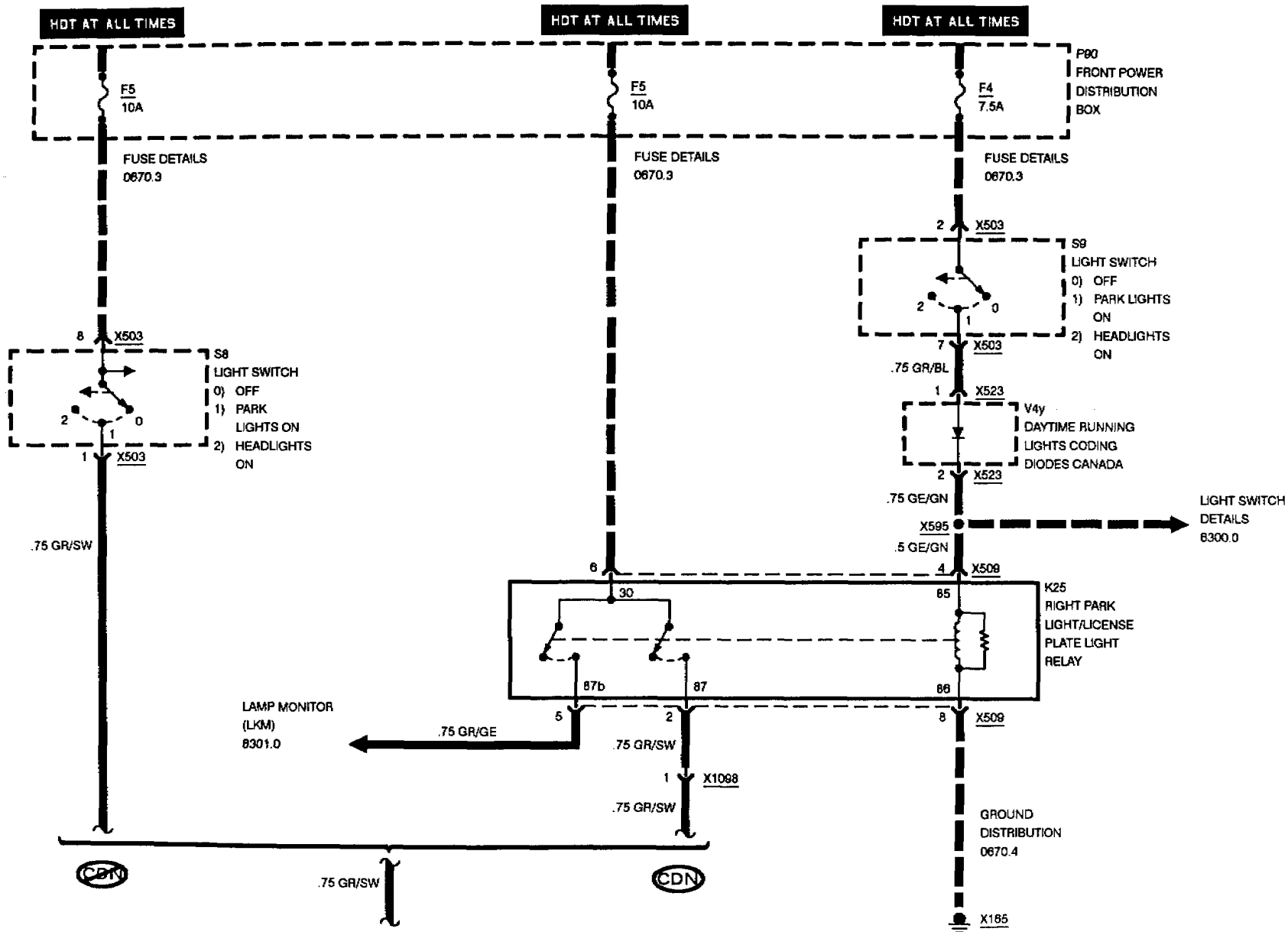
cardiagn.com



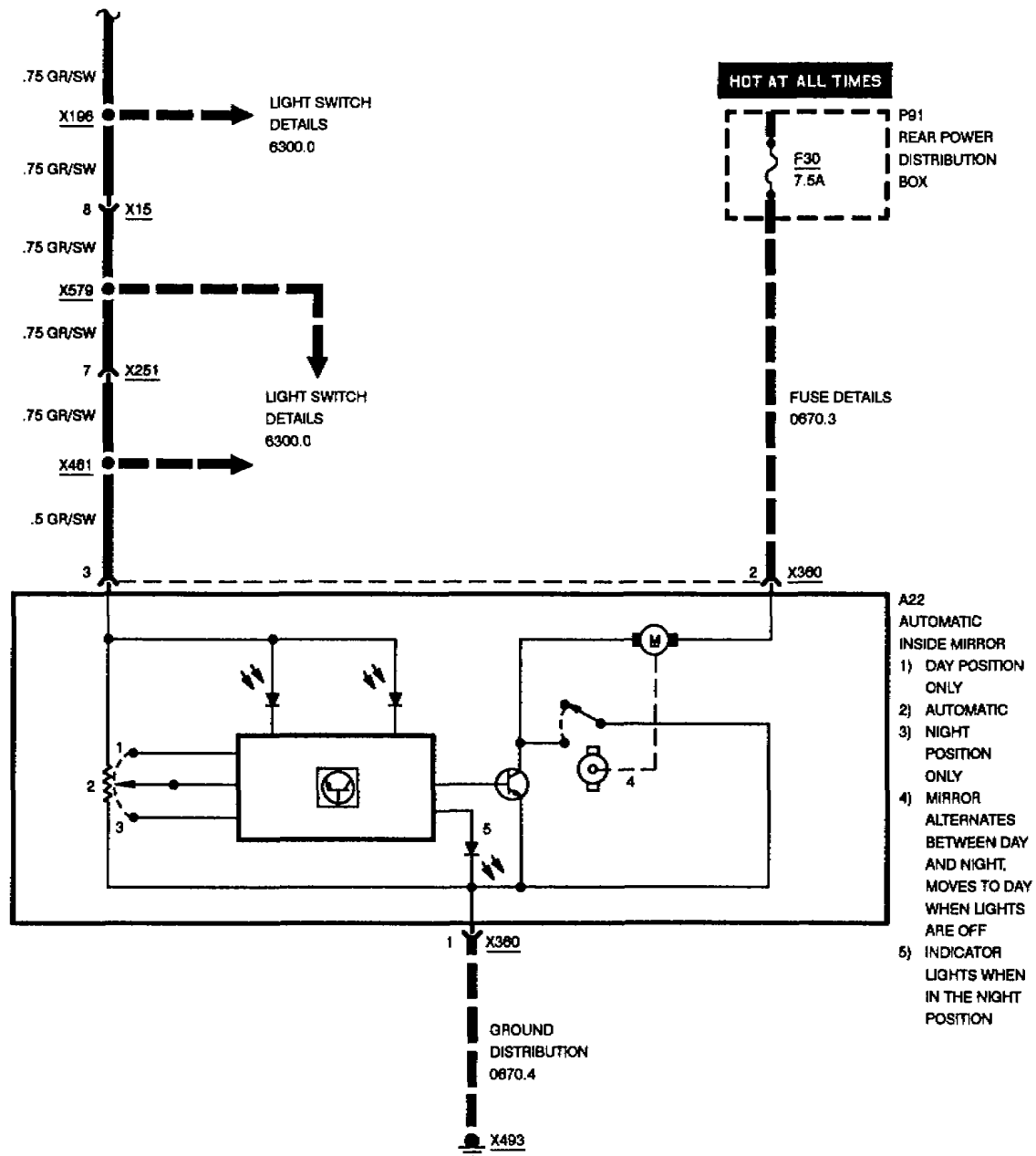
cardiagn.com

POWER MIRRORS

INSIDE MIRRORS



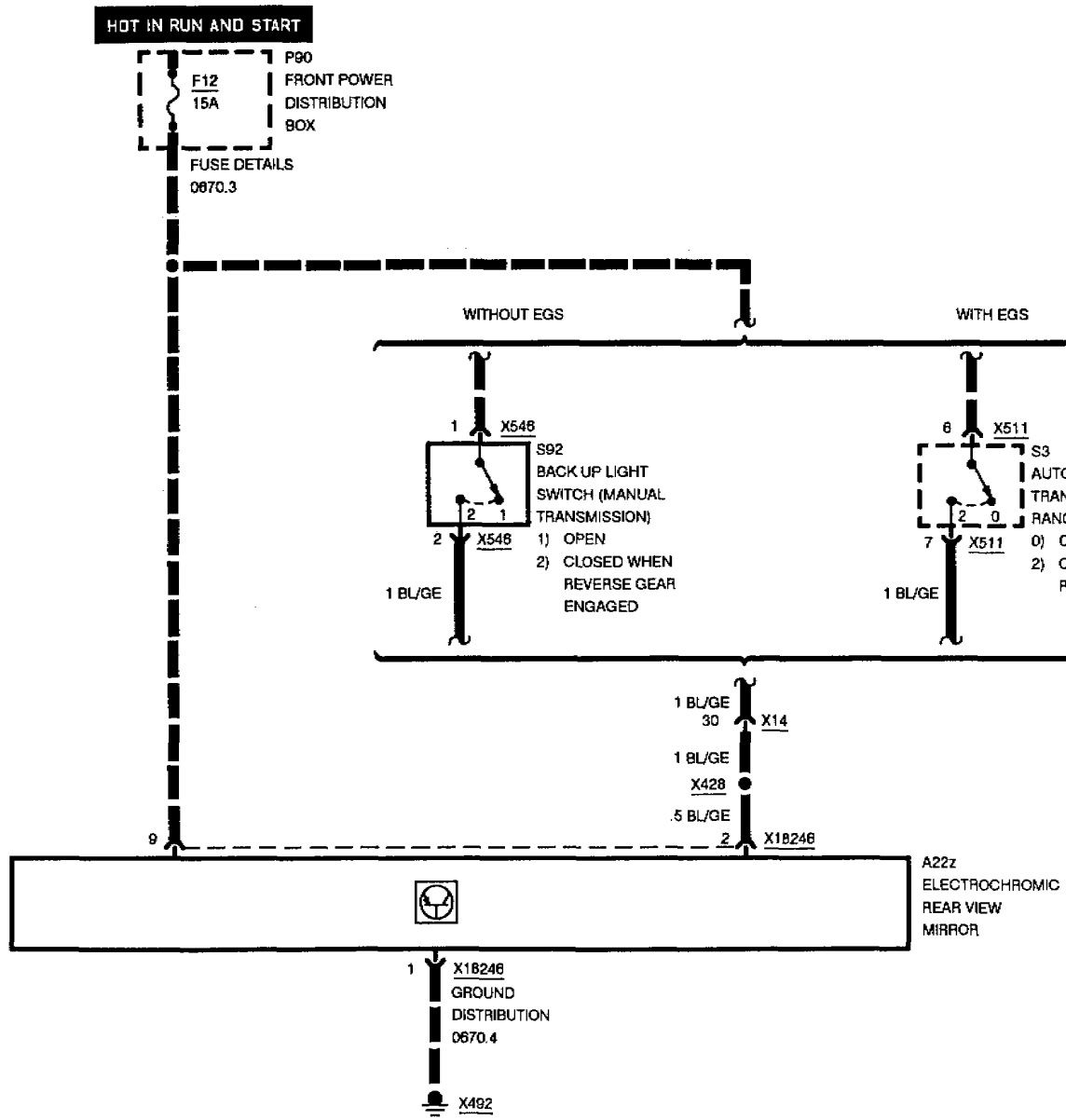
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POWER MIRRORS

ELECTROCHROMIC REAR VIEW MIRROR

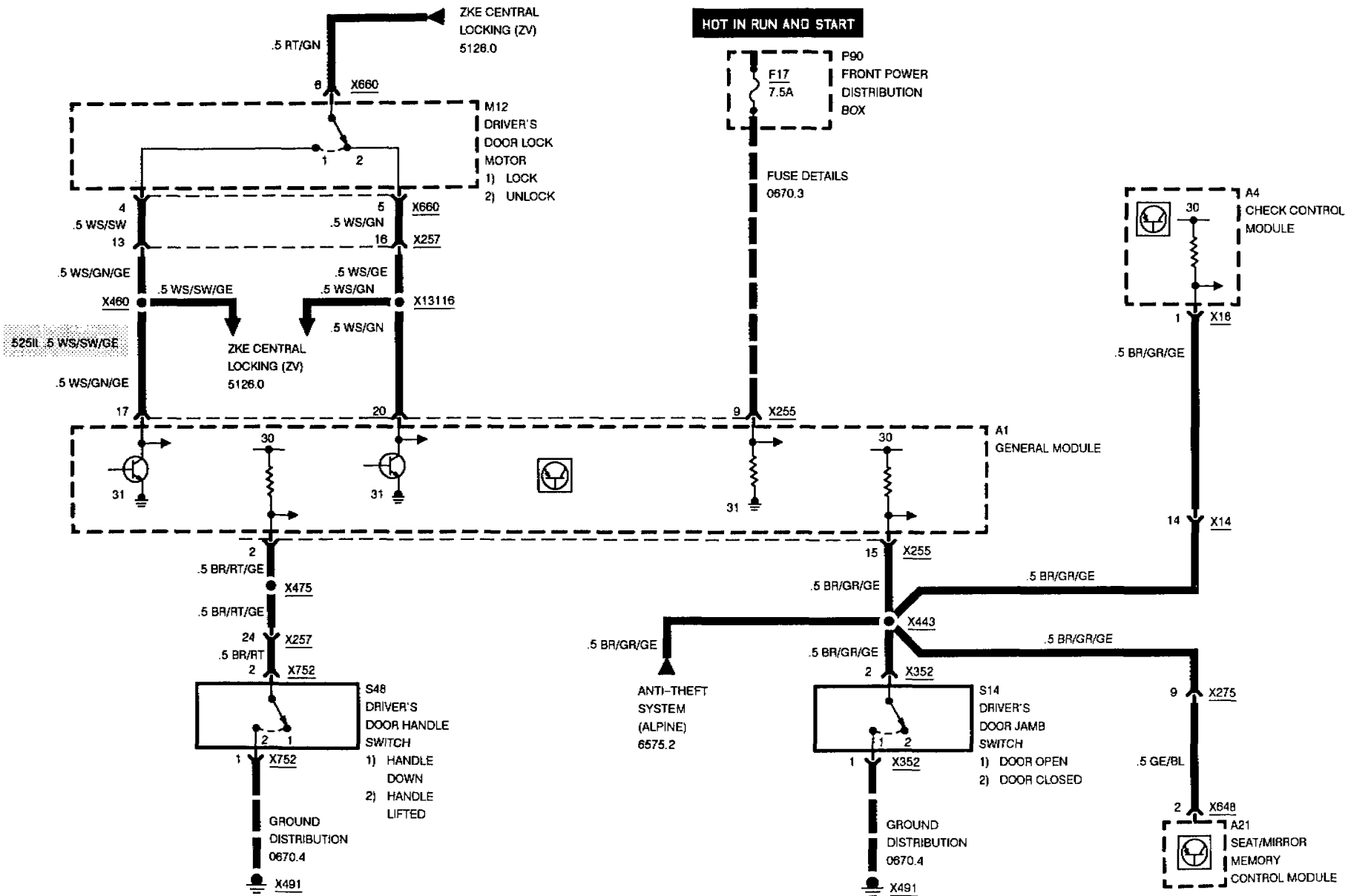


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ZKE DOOR LOCK HEATING (TSH)

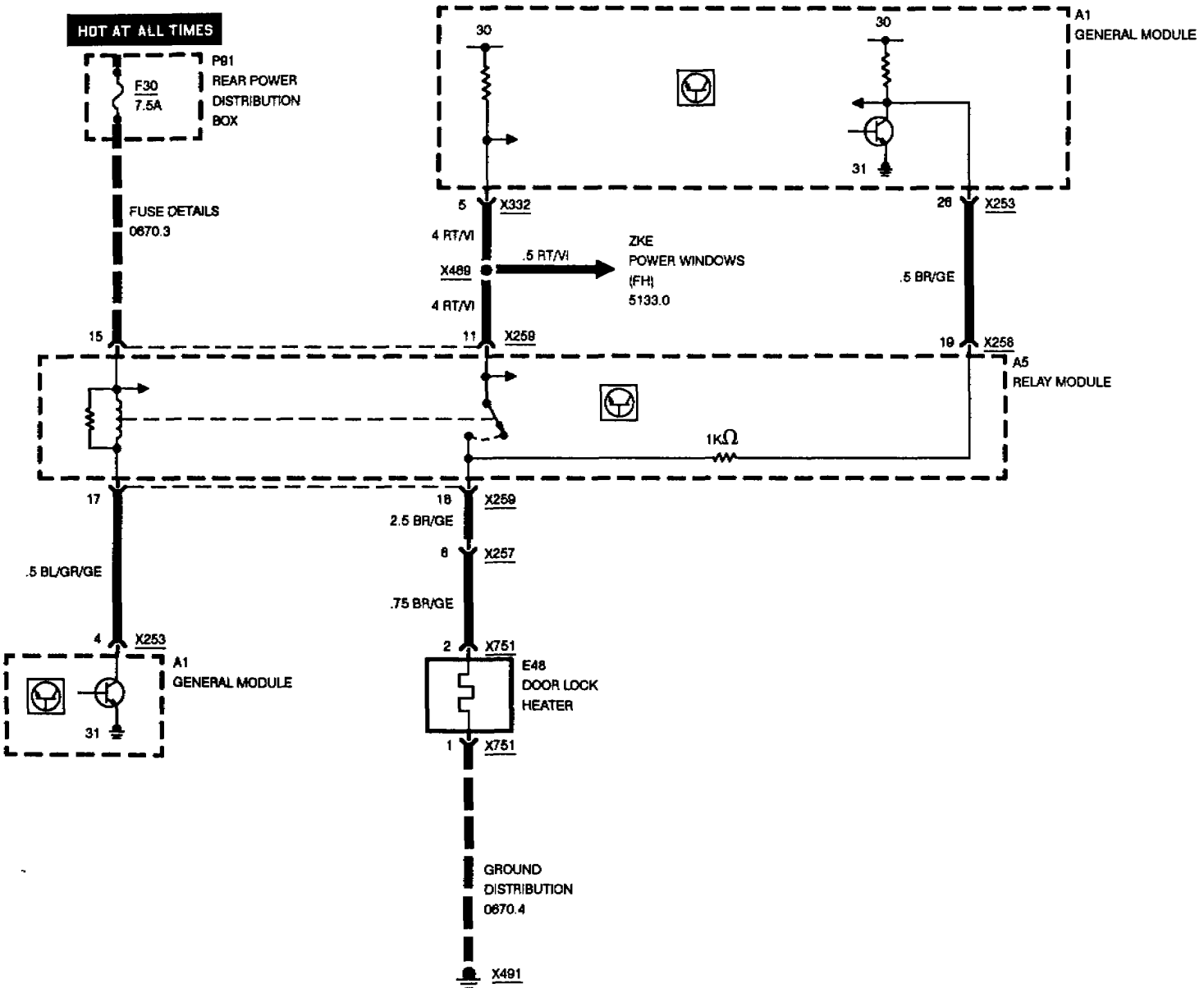
INPUT DETAILS



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ZKE DOOR LOCK HEATING (TSH)

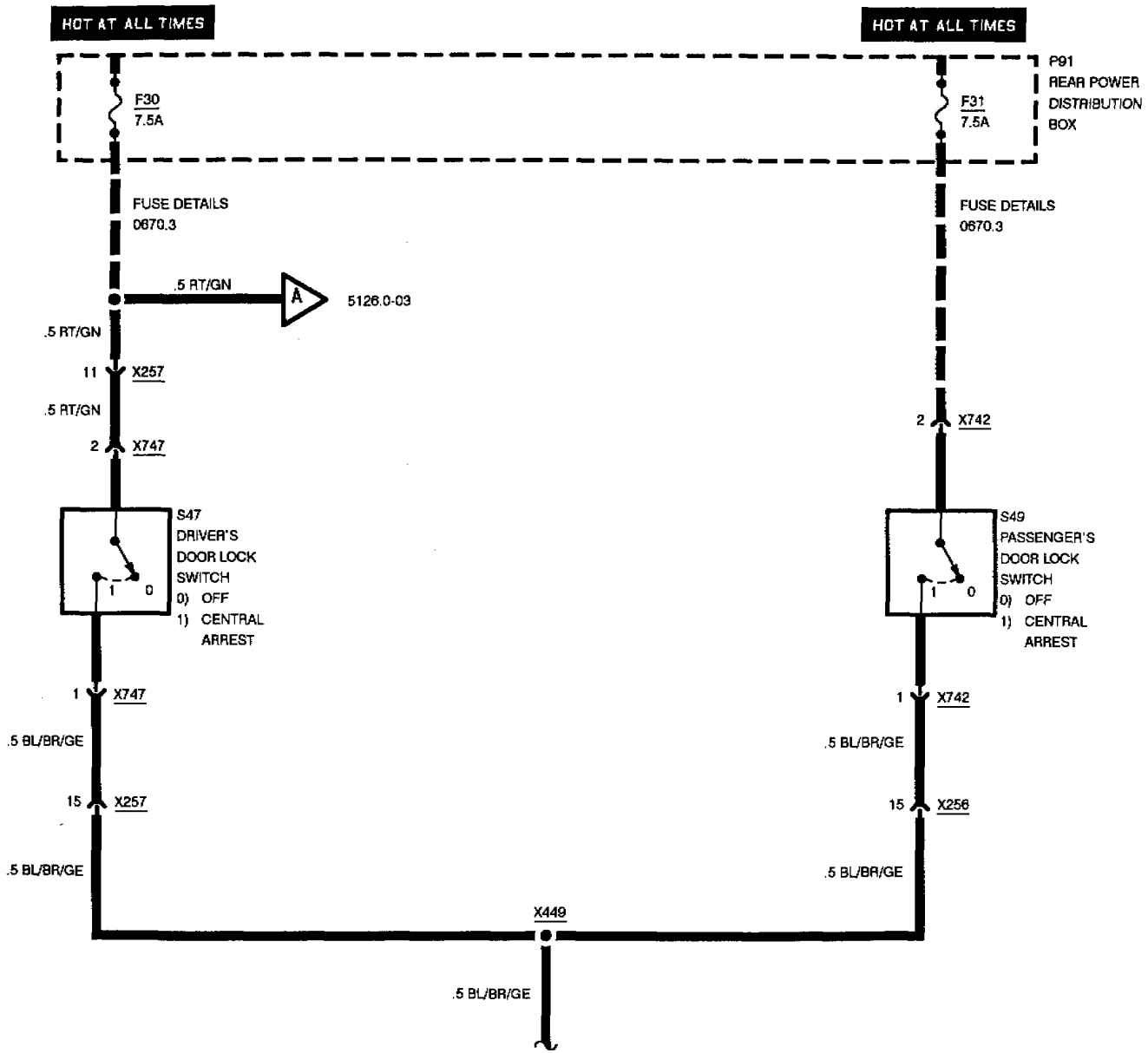
OUTPUT DETAILS



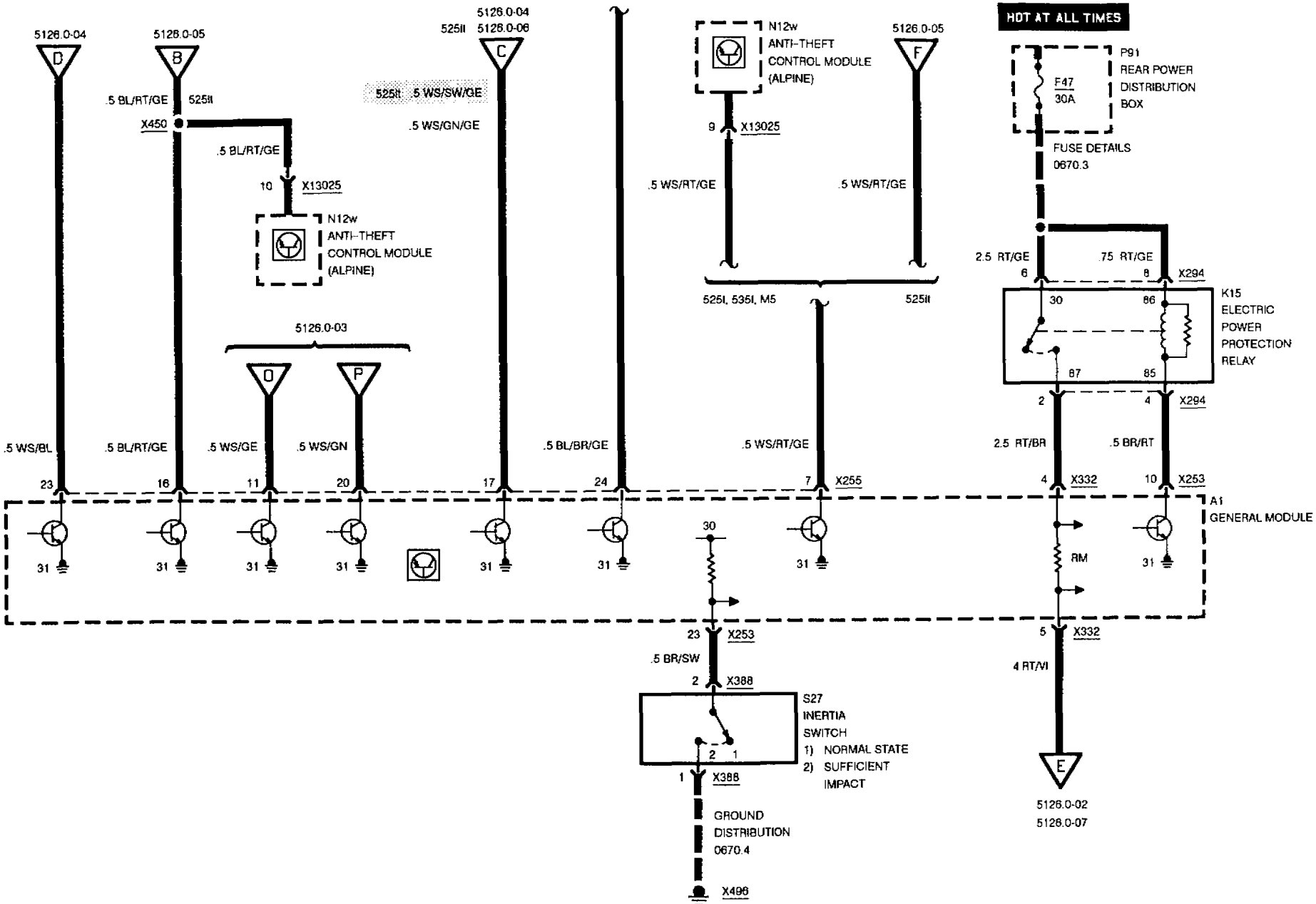
carplan.com

ZKE CENTRAL LOCKING (ZV)

INPUT DETAILS



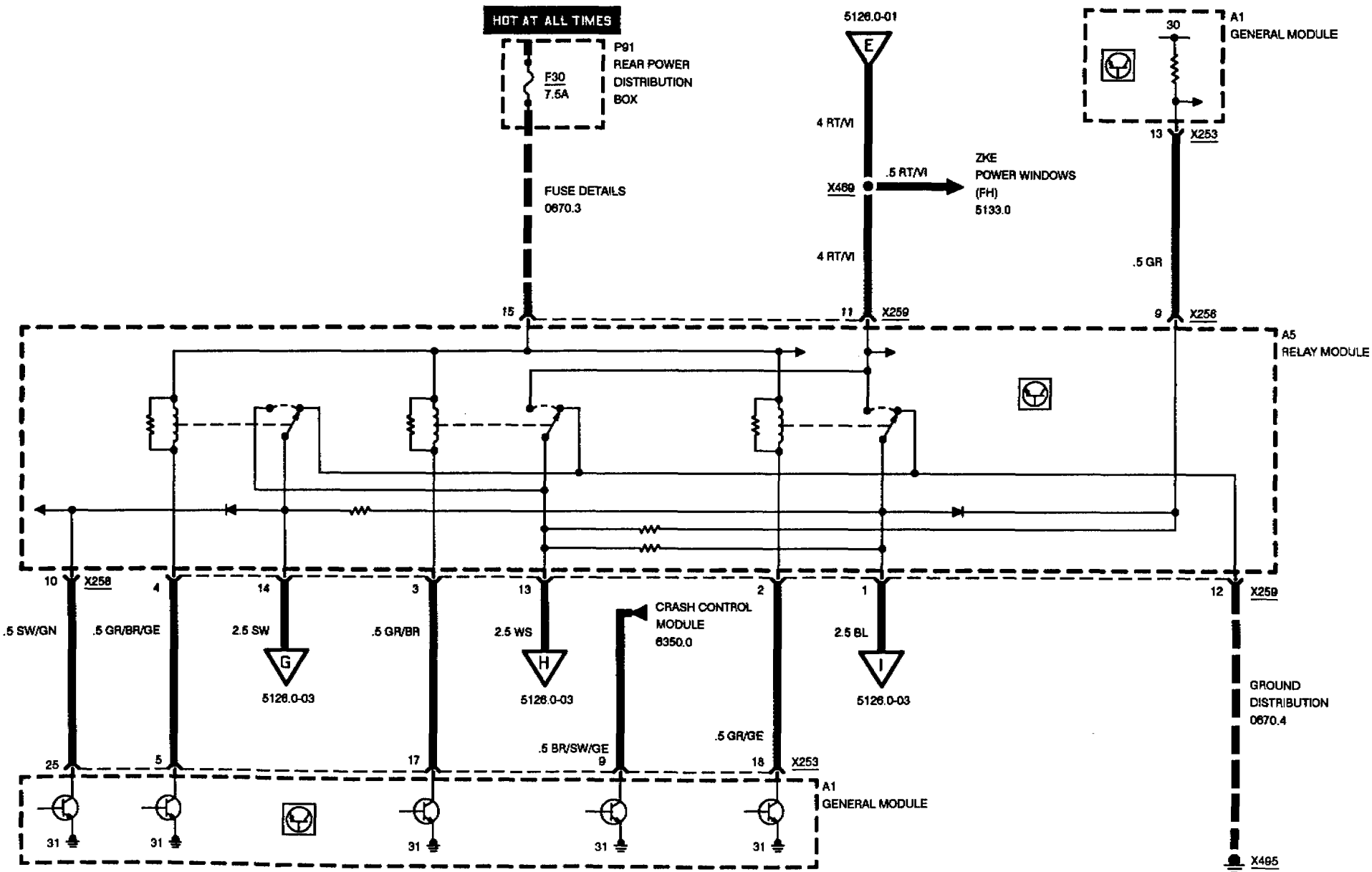
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ZKE CENTRAL LOCKING (ZV)

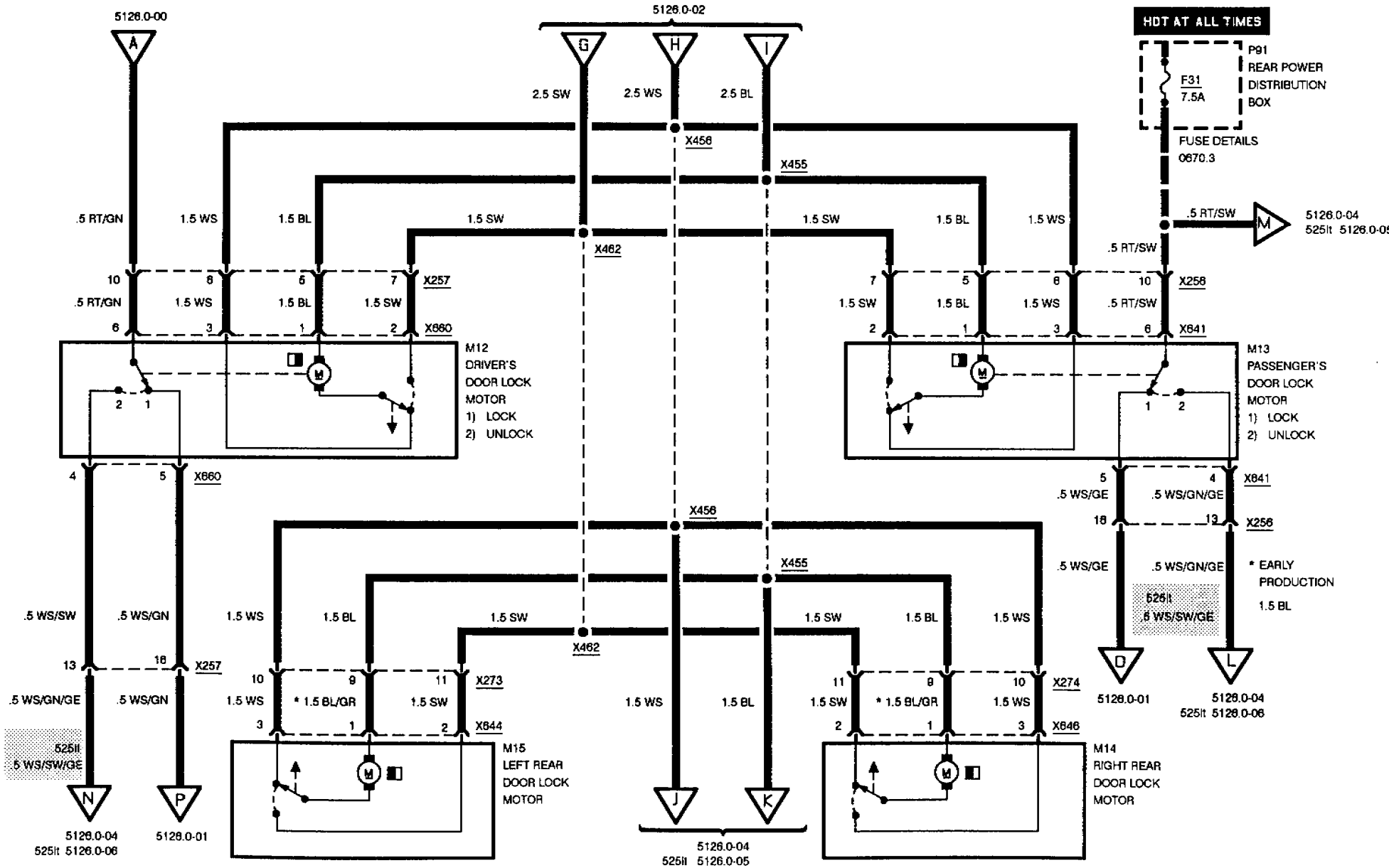
OUTPUT DETAILS



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ZKE CENTRAL LOCKING (ZV)

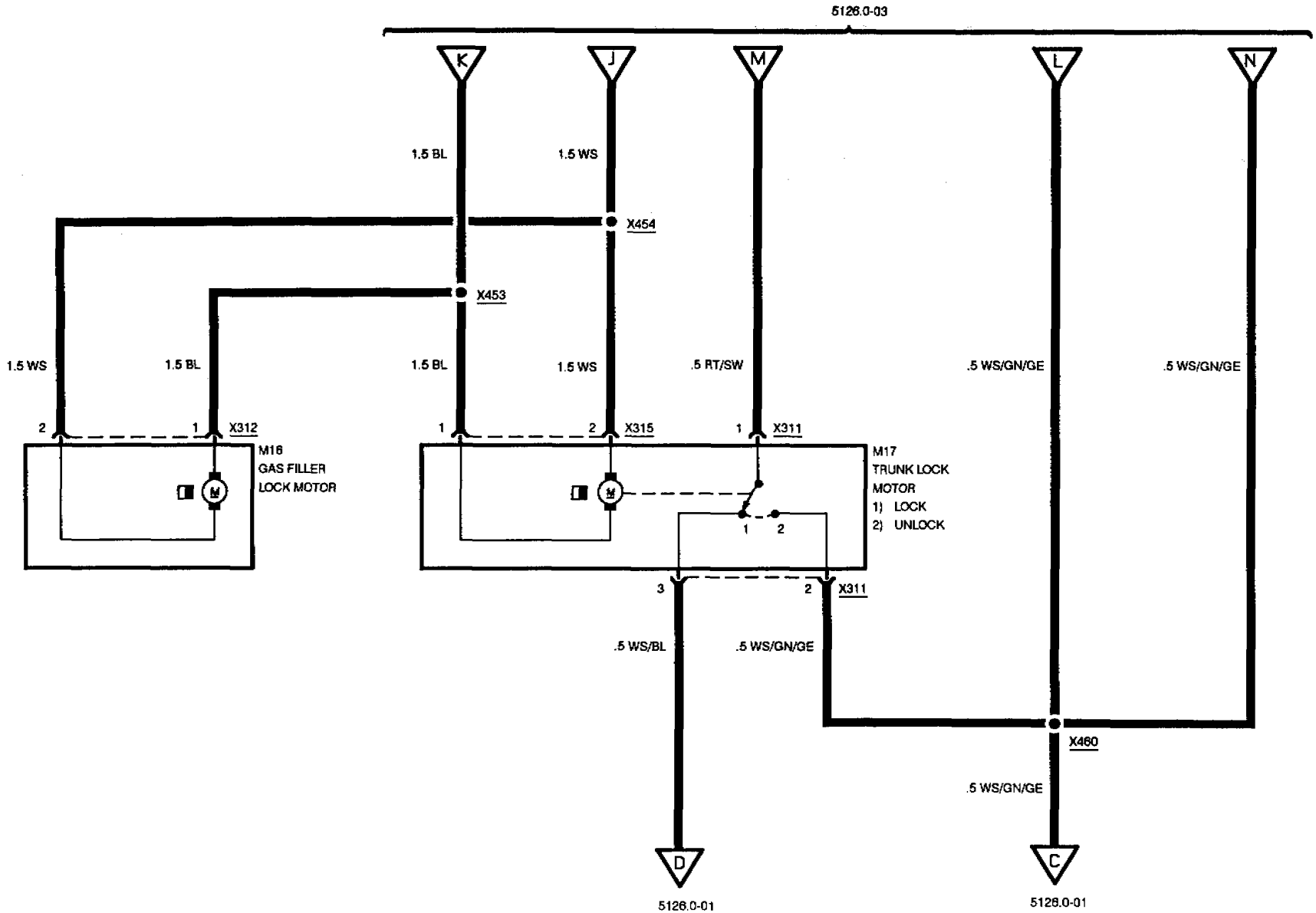
OUTPUT DETAILS



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ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

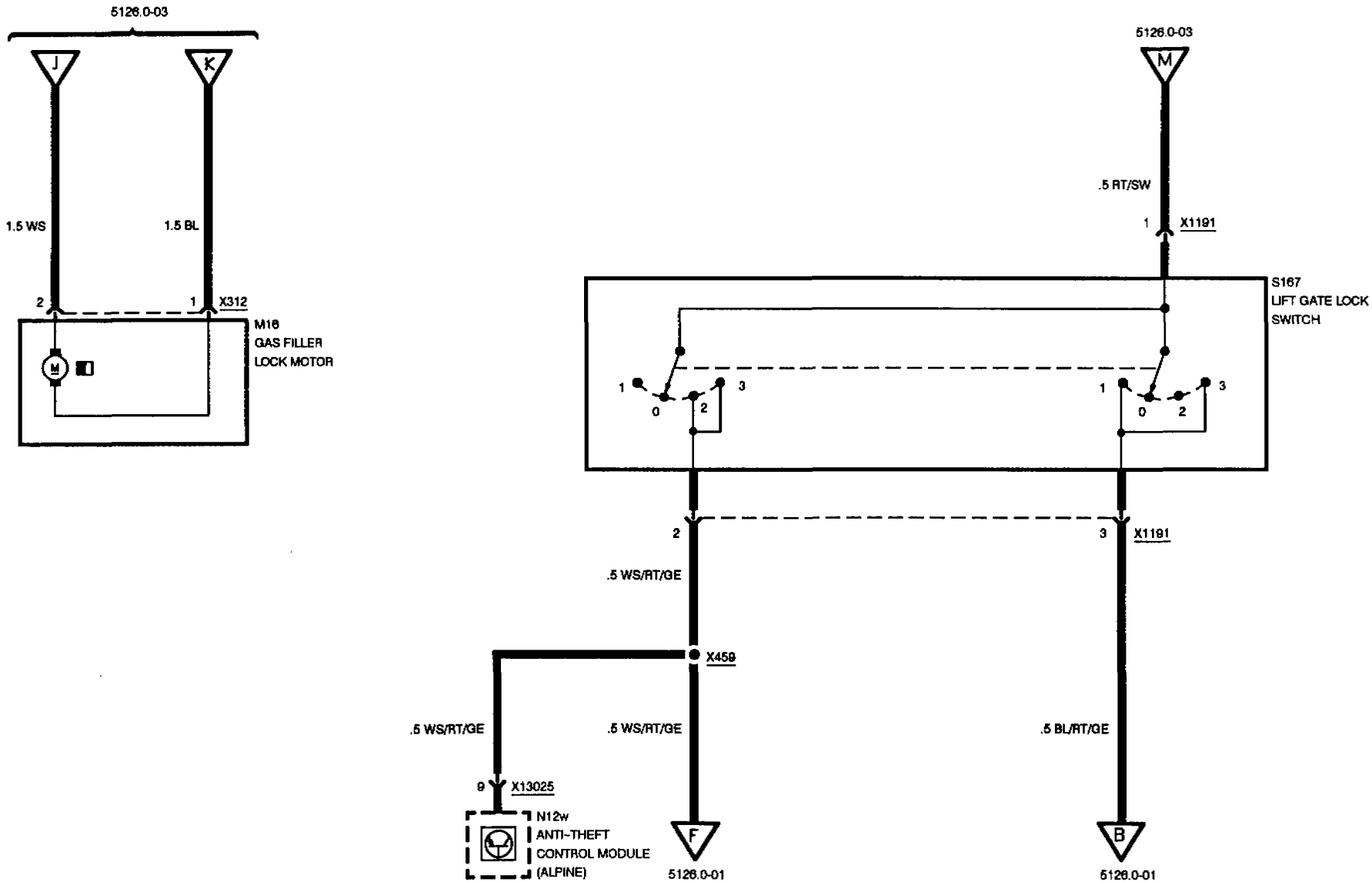


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ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS

525it

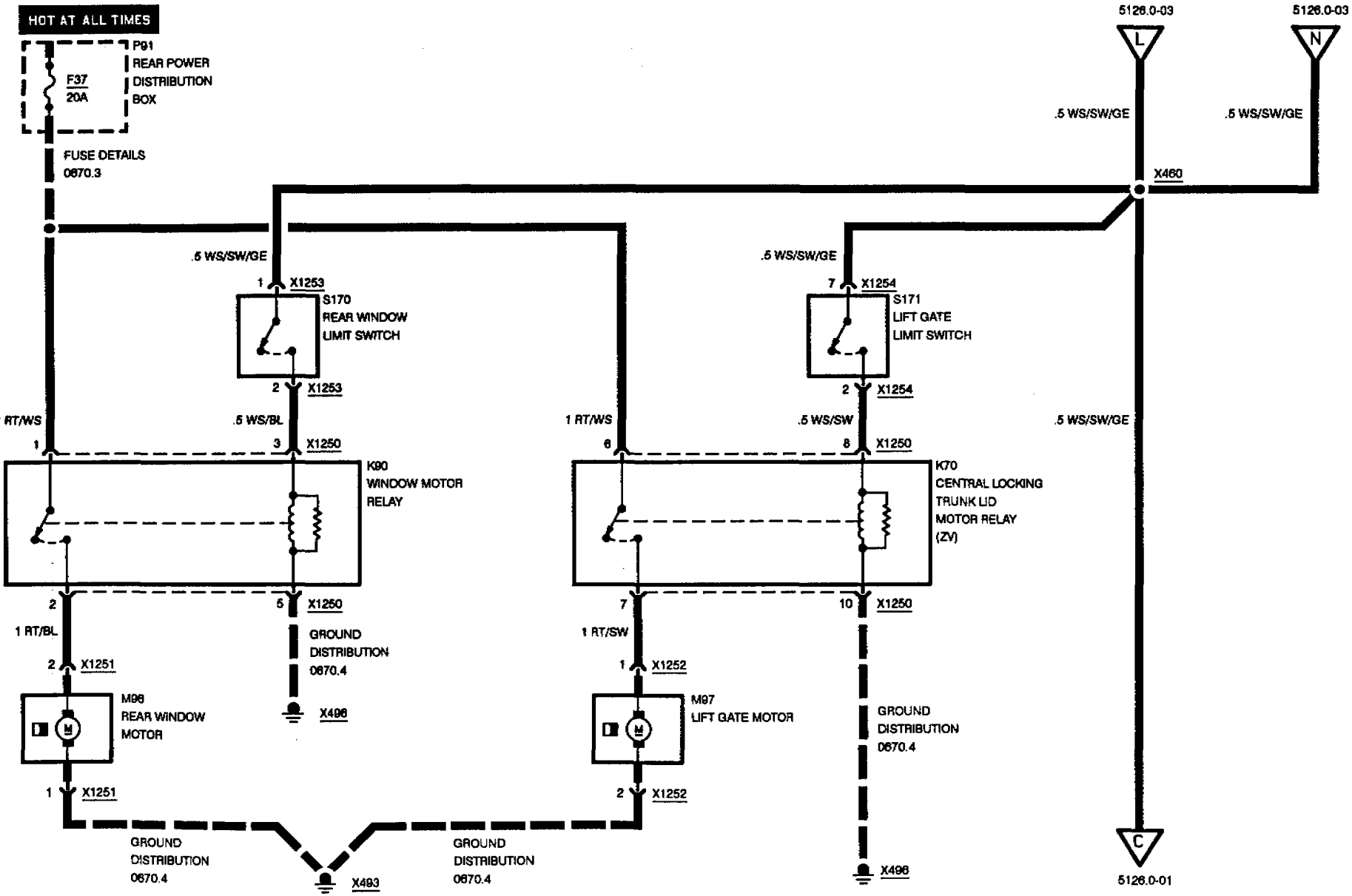


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ZKE CENTRAL LOCKING (ZV)

525it

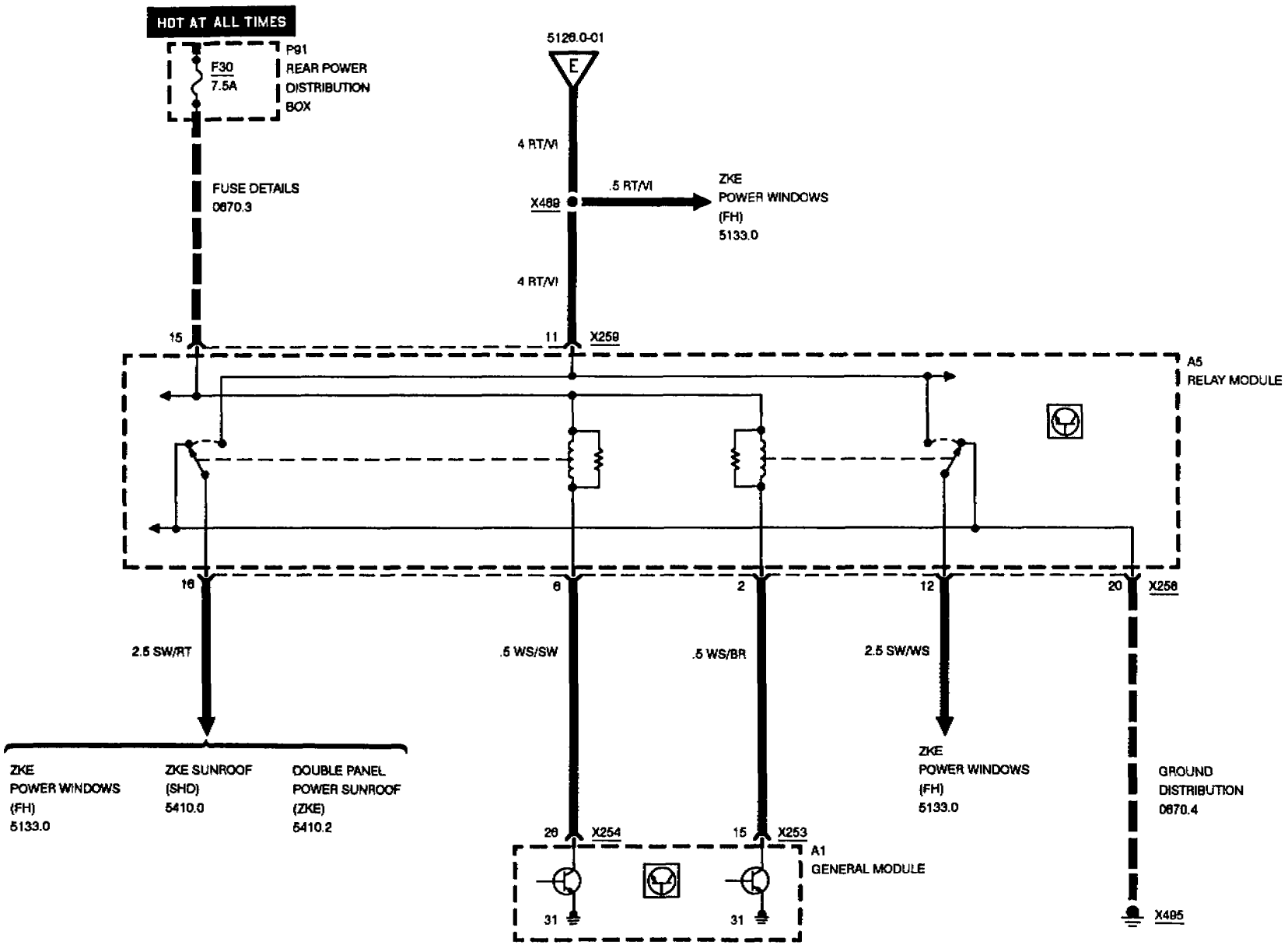
OUTPUT DETAILS



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ZKE CENTRAL LOCKING (ZV)

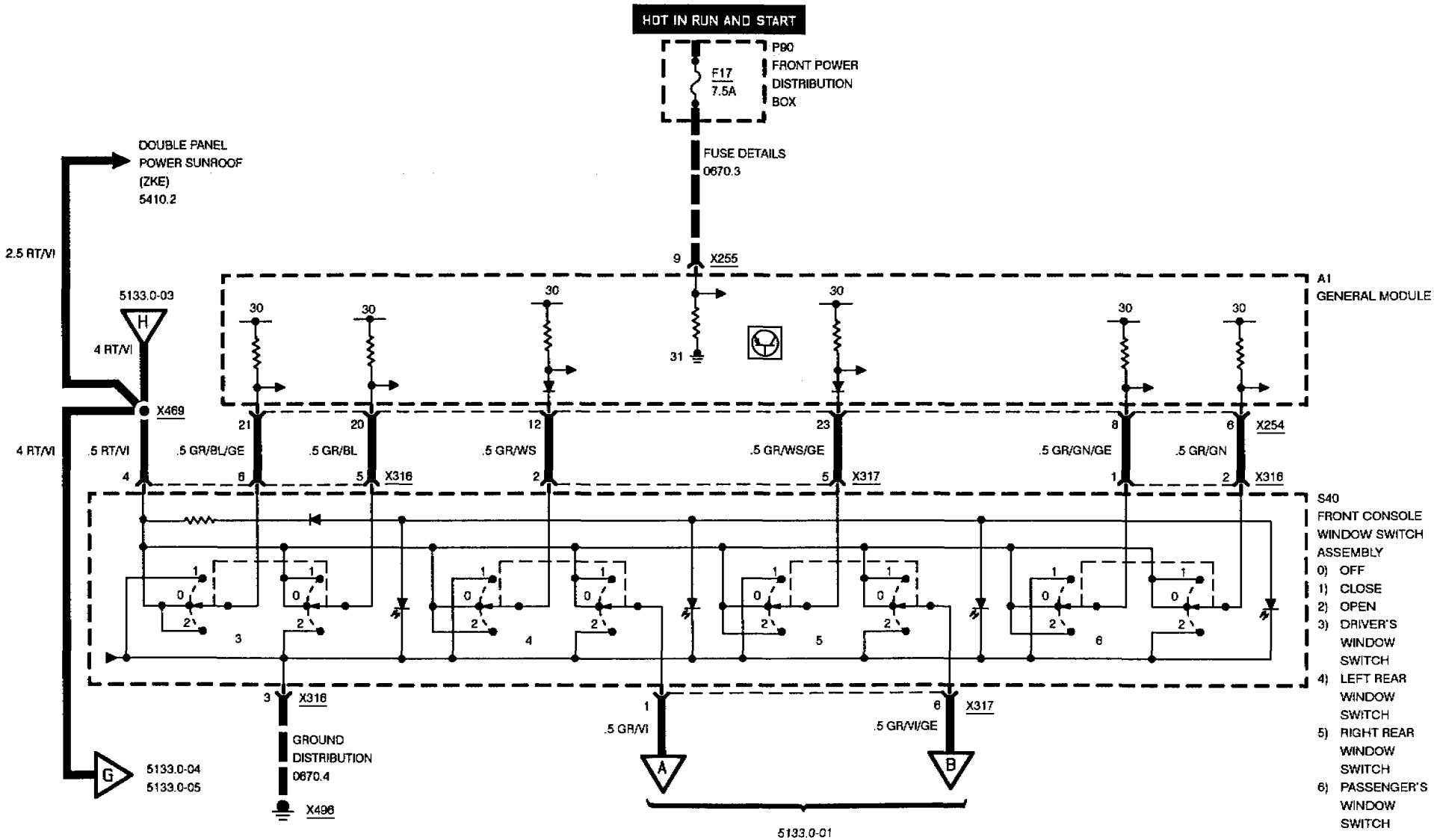
OUTPUT DETAILS



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ZKE POWER WINDOWS (FH)

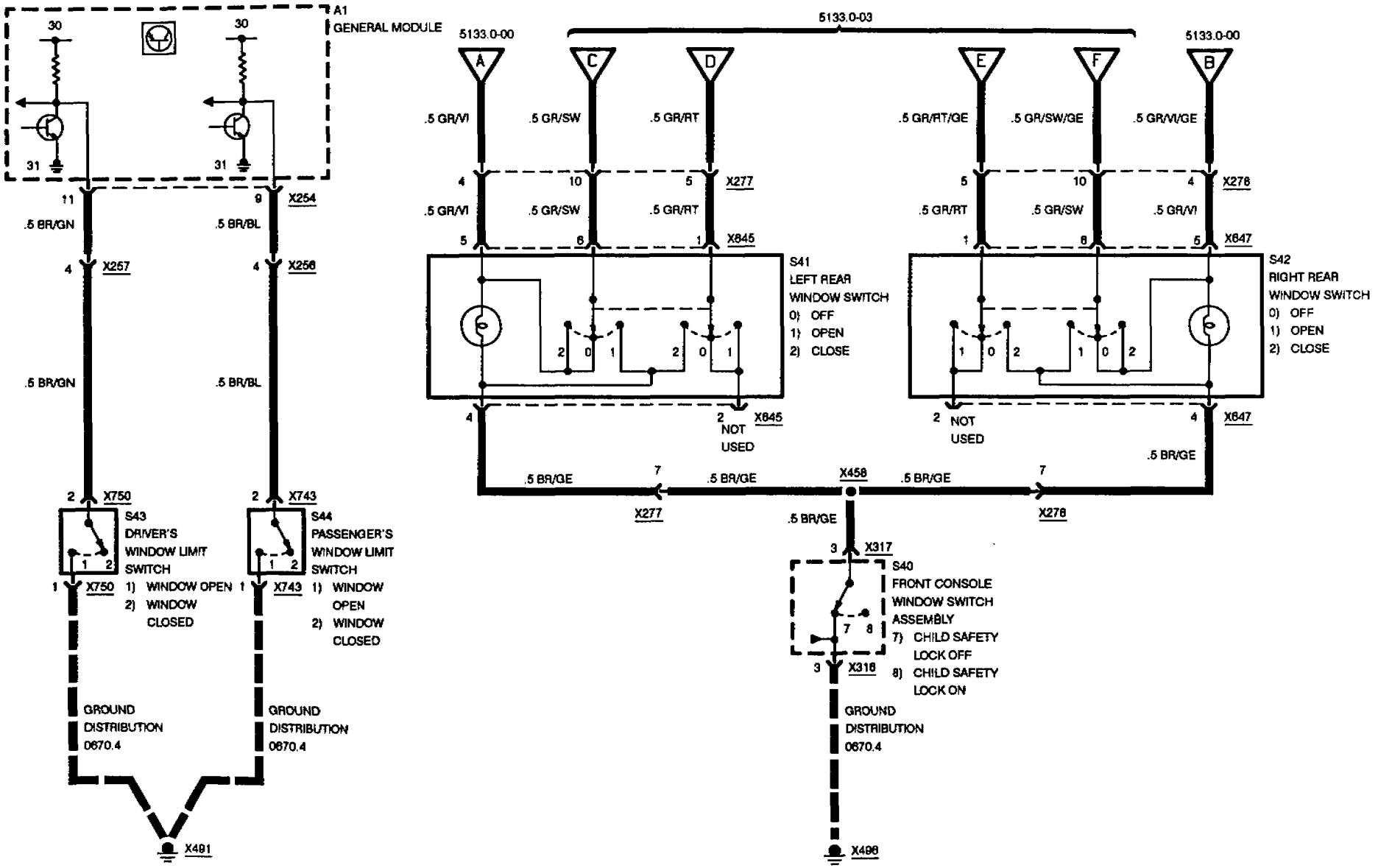
INPUT DETAILS



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ZKE POWER WINDOWS (FH)

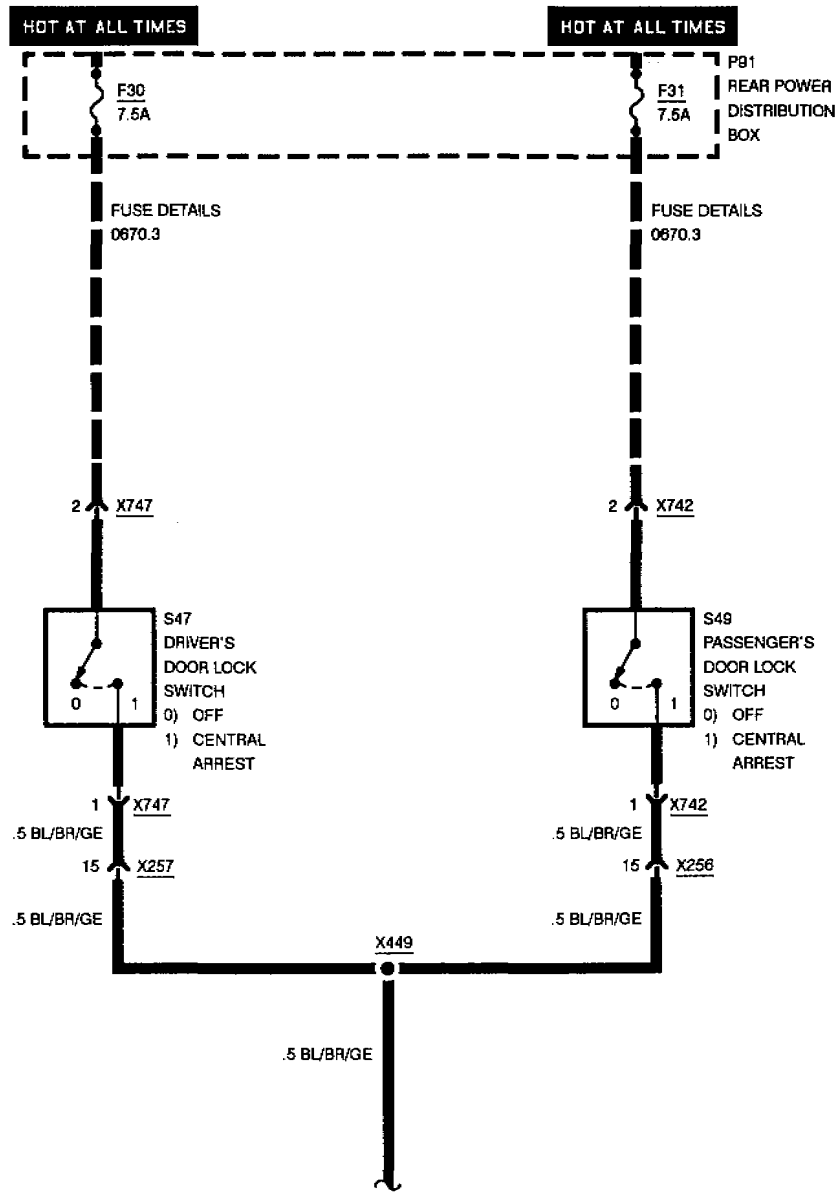
INPUT DETAILS



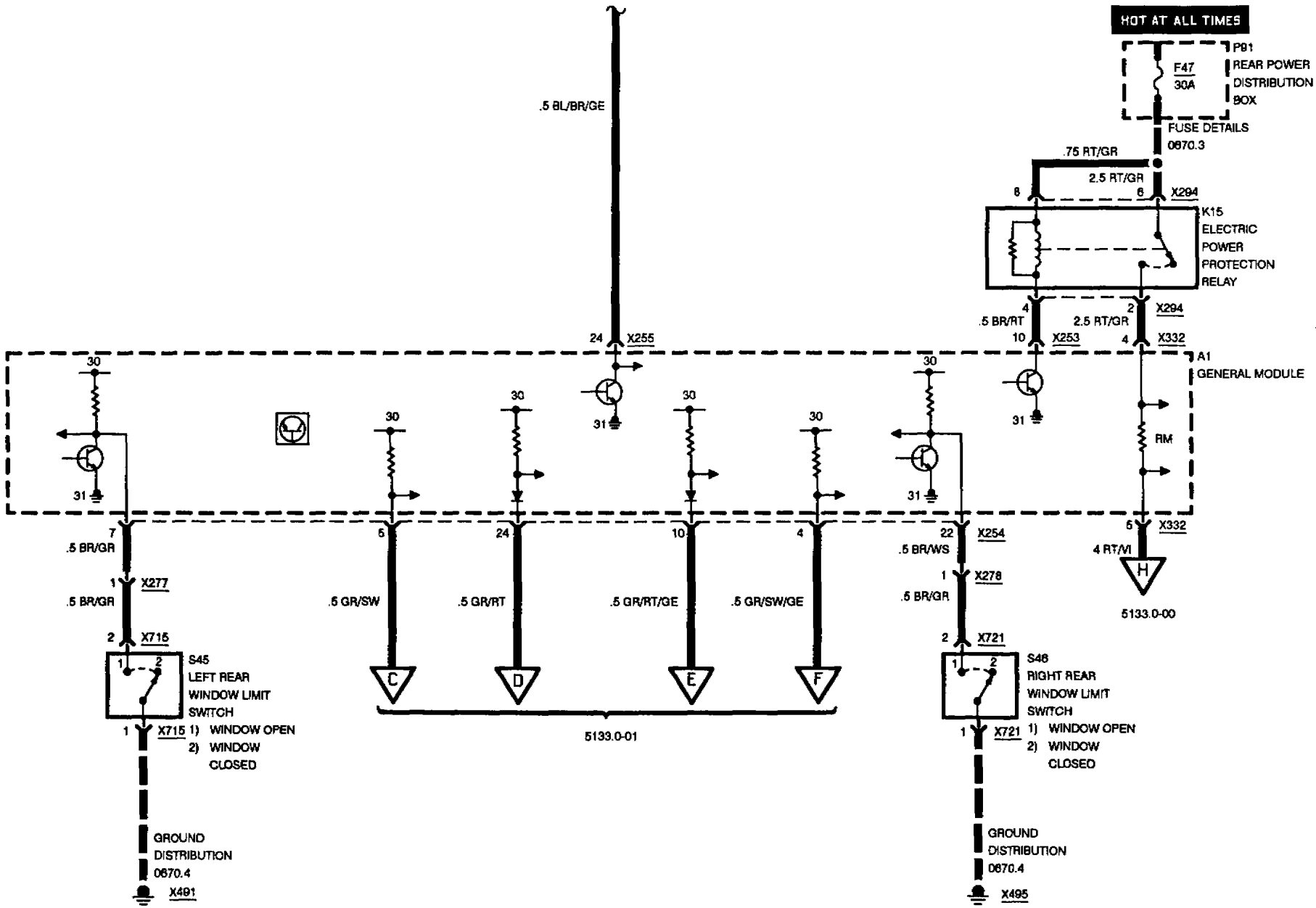
carlabgh.com

ZKE POWER WINDOWS (FH)

INPUT DETAILS



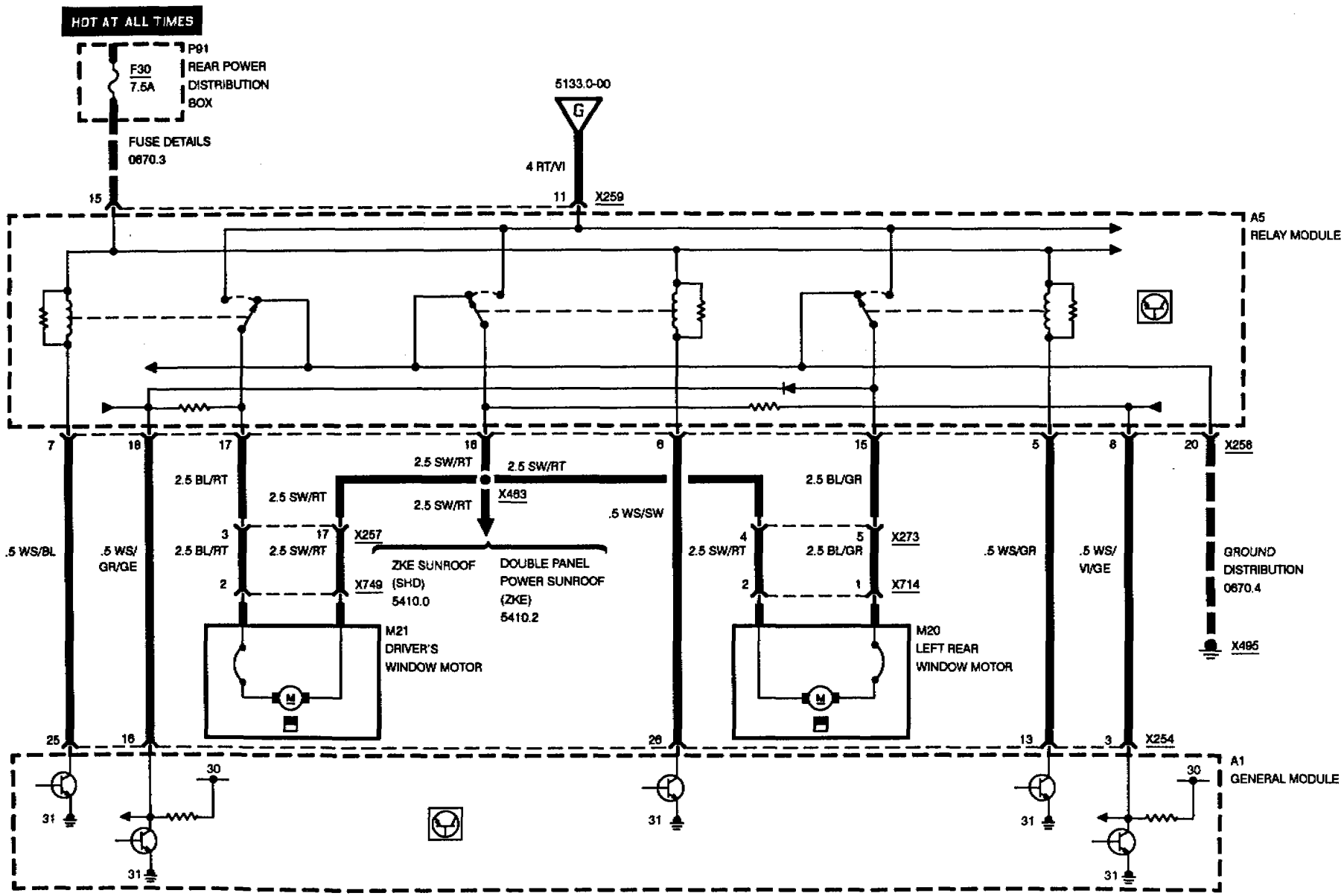
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HOT AT ALL TIMES
P91
REAR POWER DISTRIBUTION BOX
F47
30A
FUSE DETAILS
0670.3
.75 RT/GR
2.5 RT/GR
6
X294
K15
ELECTRIC POWER PROTECTION RELAY
.5 BL/BR/GE
24
X255
4
.5 BR/RT
10
X253
2
2.5 RT/GR
4
X332
A1
GENERAL MODULE
30
31
RM
7
.5 BR/GR
1
X277
.5 BR/GR
2
X715
S45
LEFT REAR WINDOW LIMIT SWITCH
1) WINDOW OPEN
2) WINDOW CLOSED
X715
GROUND DISTRIBUTION
0670.4
X491
6
.5 GR/SW
24
.5 GR/RT
10
.5 GR/RT/GE
4
.5 GR/SW/GE
C
D
E
F
5133.0-01
22
X254
.5 BR/WS
1
X278
.5 BR/GR
2
X721
S46
RIGHT REAR WINDOW LIMIT SWITCH
1) WINDOW OPEN
2) WINDOW CLOSED
X721
GROUND DISTRIBUTION
0670.4
X495
5
X332
4 RT/VI
H
5133.0-00

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BMW 5 ZKE POWER WINDOWS (FH)

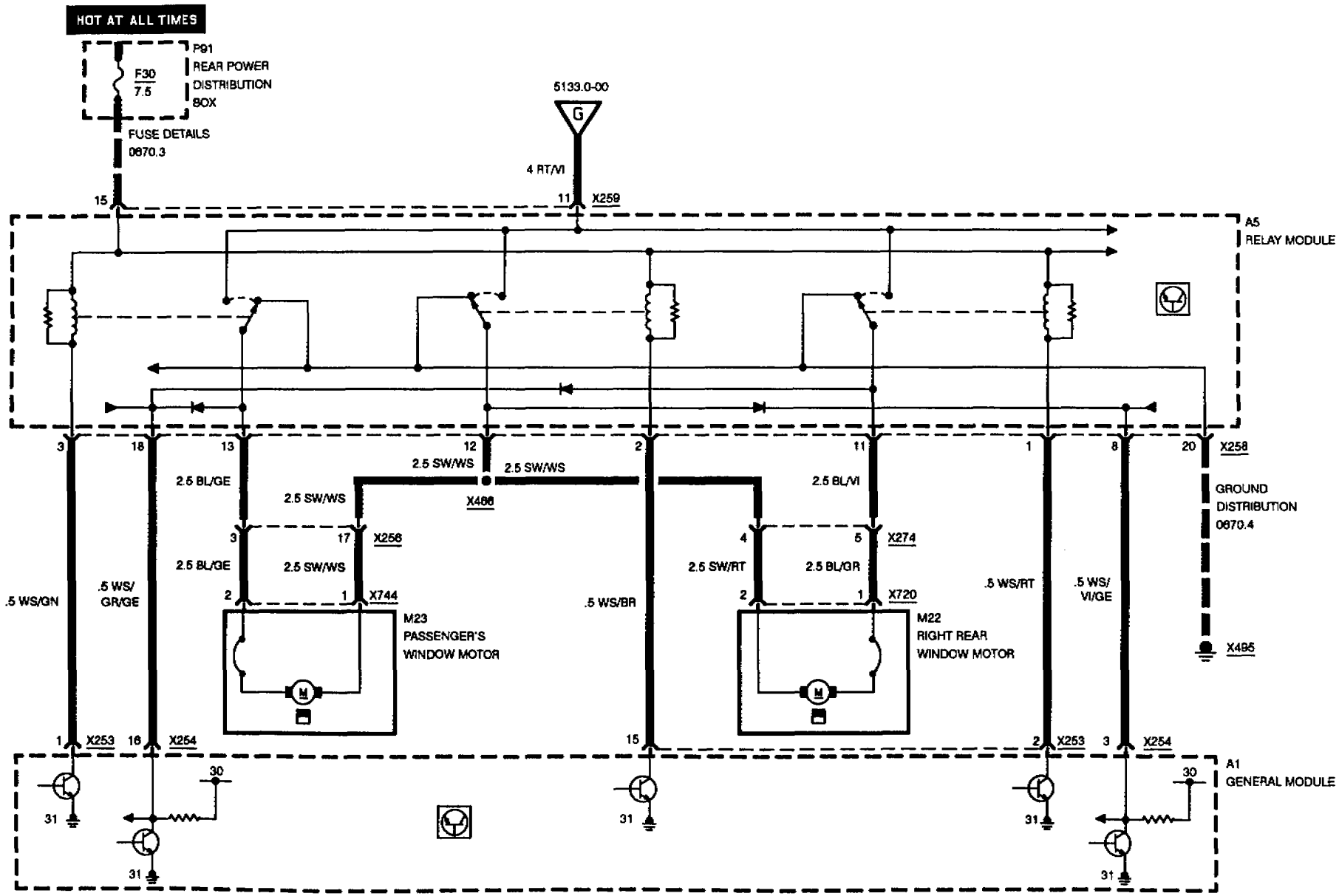
LEFT SIDE OUTPUT DETAILS



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ZKE POWER WINDOWS (FH)

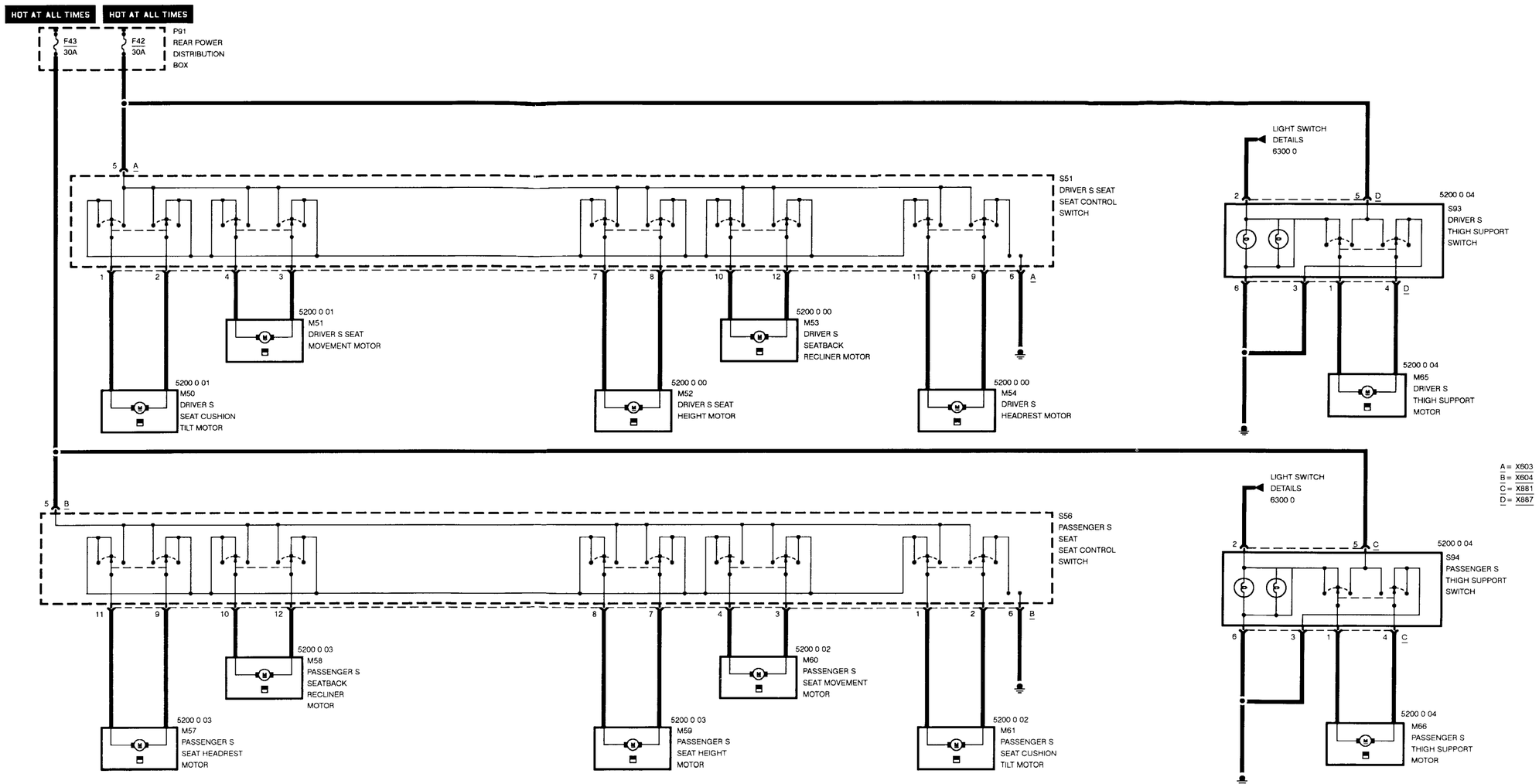
RIGHT SIDE OUTPUT DETAILS



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11/92 5200 0 1992
11/92 5200 0 1992



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Pin Assignments

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

X603 (Driver) and X604 (Passenger)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E/A	Seat cushion tilt control	Seat cushion tilt motor			
2	E/A	Seat cushion tilt control	Seat cushion tilt motor			
3	E/A	Seat cushion movement control	Seat movement motor			
4	E/A	Seat cushion movement control	Seat movement motor			
5	E	Battery voltage	Fuse			
6	M	Ground	Ground			
7	E/A	Seat cushion height control	Seat height motor			
8	E/A	Seat cushion height control	Seat height motor			
9	E/A	Headrest control	Headrest motor			
10	E/A	Recliner control	Seat back recliner motor			
11	E/A	Headrest control	Headrest motor			
12	E/A	Recliner control	Seat back recliner motor			

mandatory.com

X887 (Driver) and X881 (Passenger)

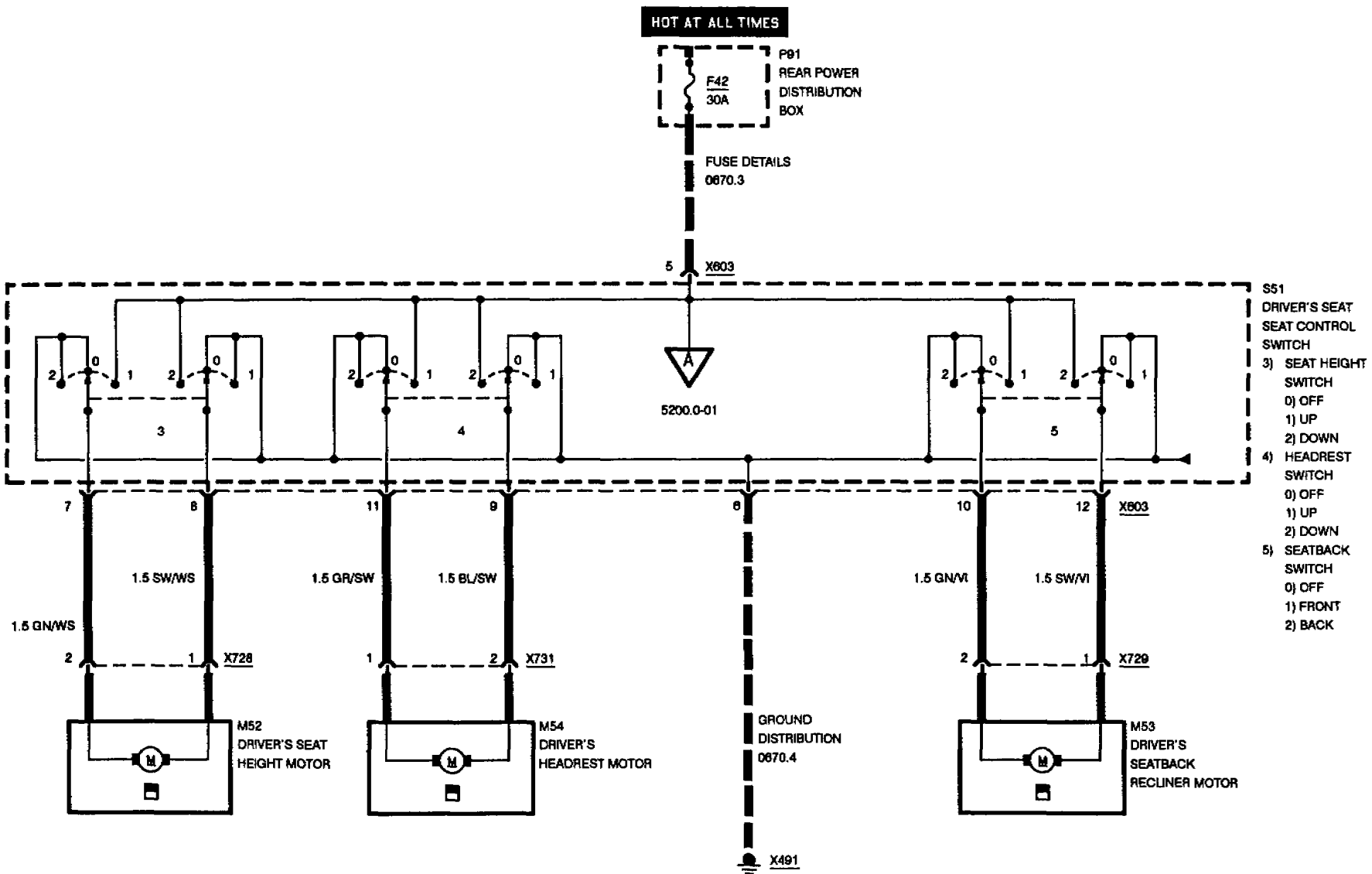
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E/A	Thigh support control	Thigh support motor			
2	E	Switch illumination	Light switch			
3	M	Ground	Ground			
4	E/A	Thigh support control	Thigh support motor			
5	E	Battery voltage	Fuse			
6	M	Ground	Ground			

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POWER SEATS

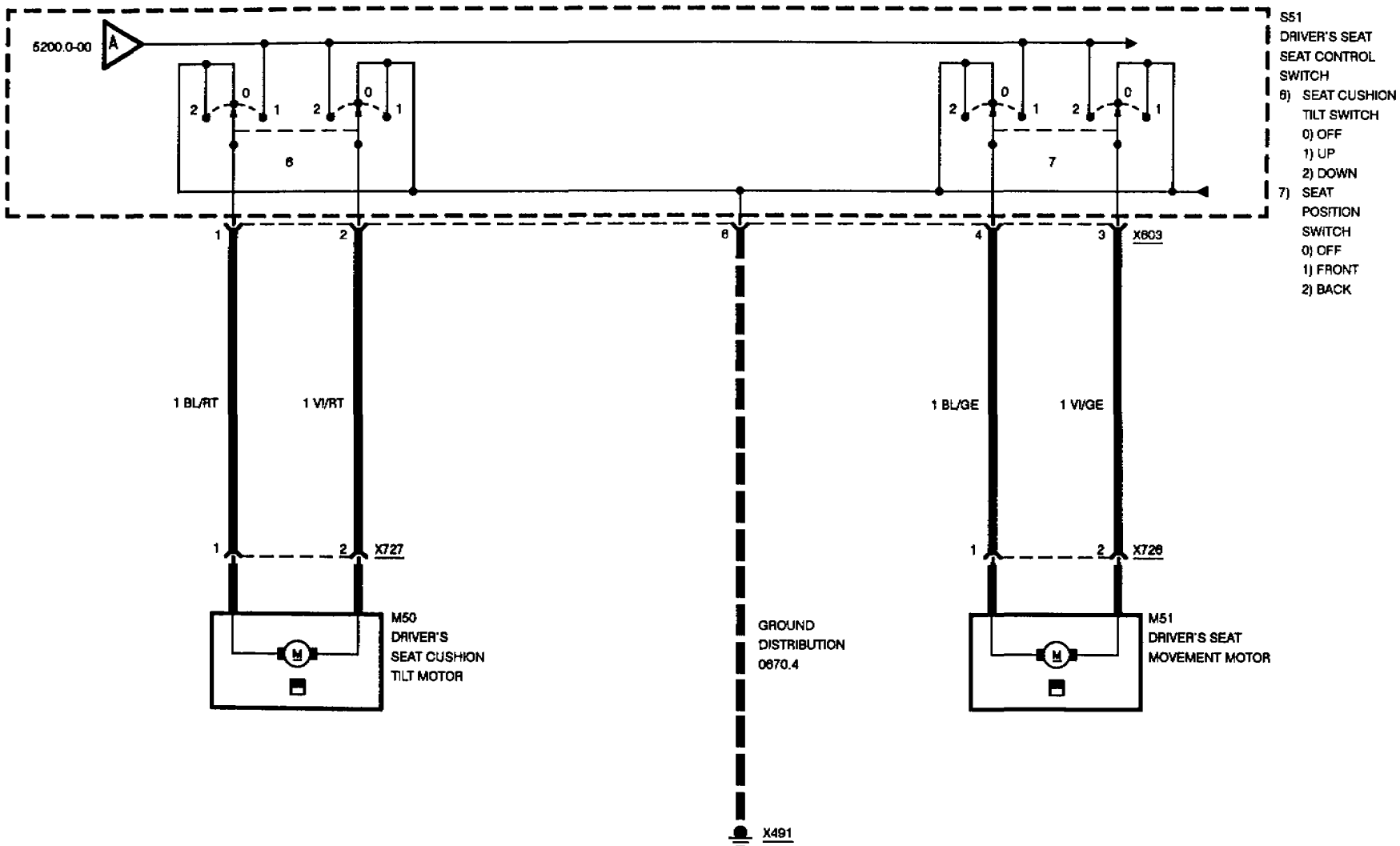
DRIVER'S SEAT



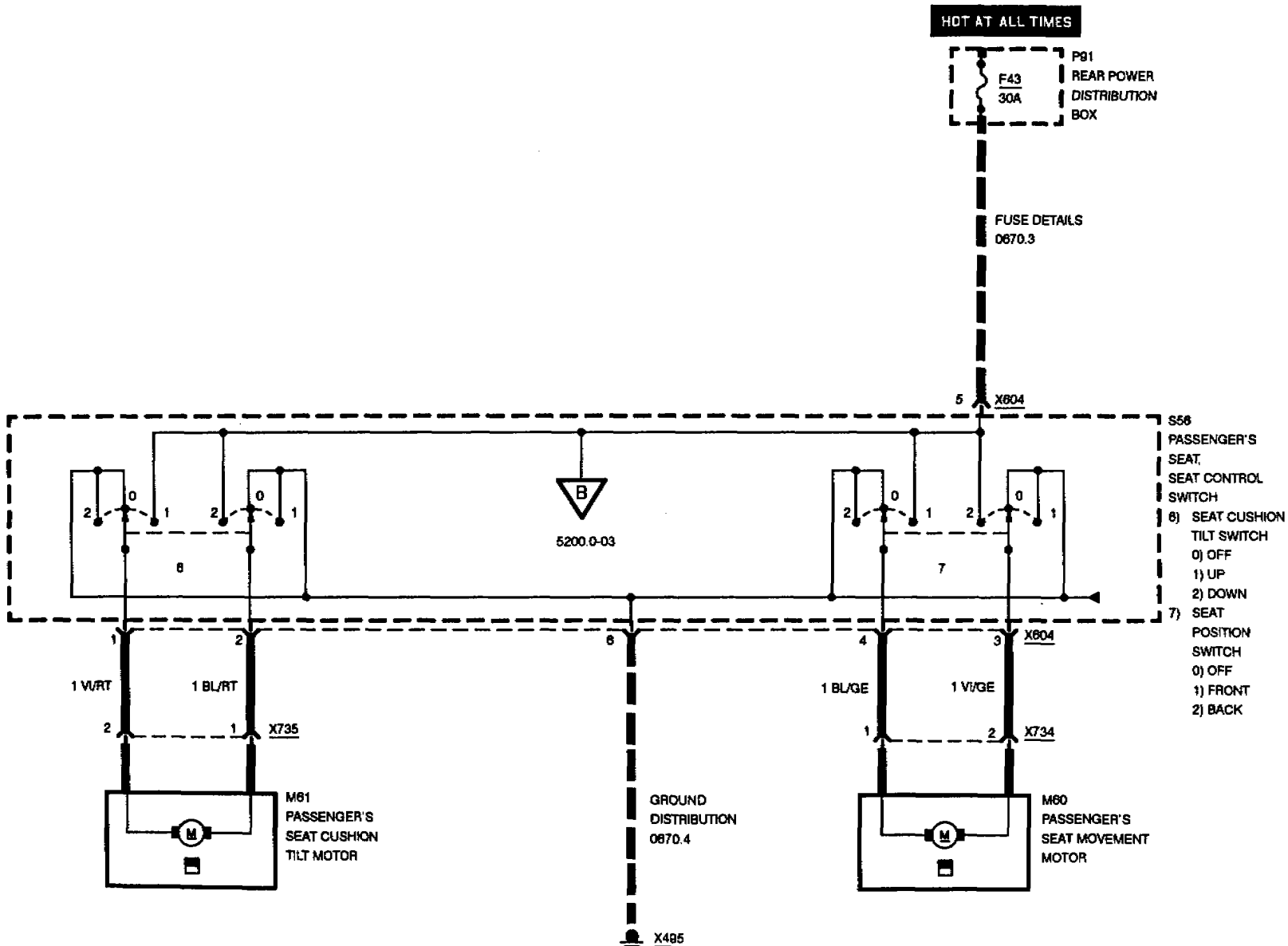
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POWER SEATS

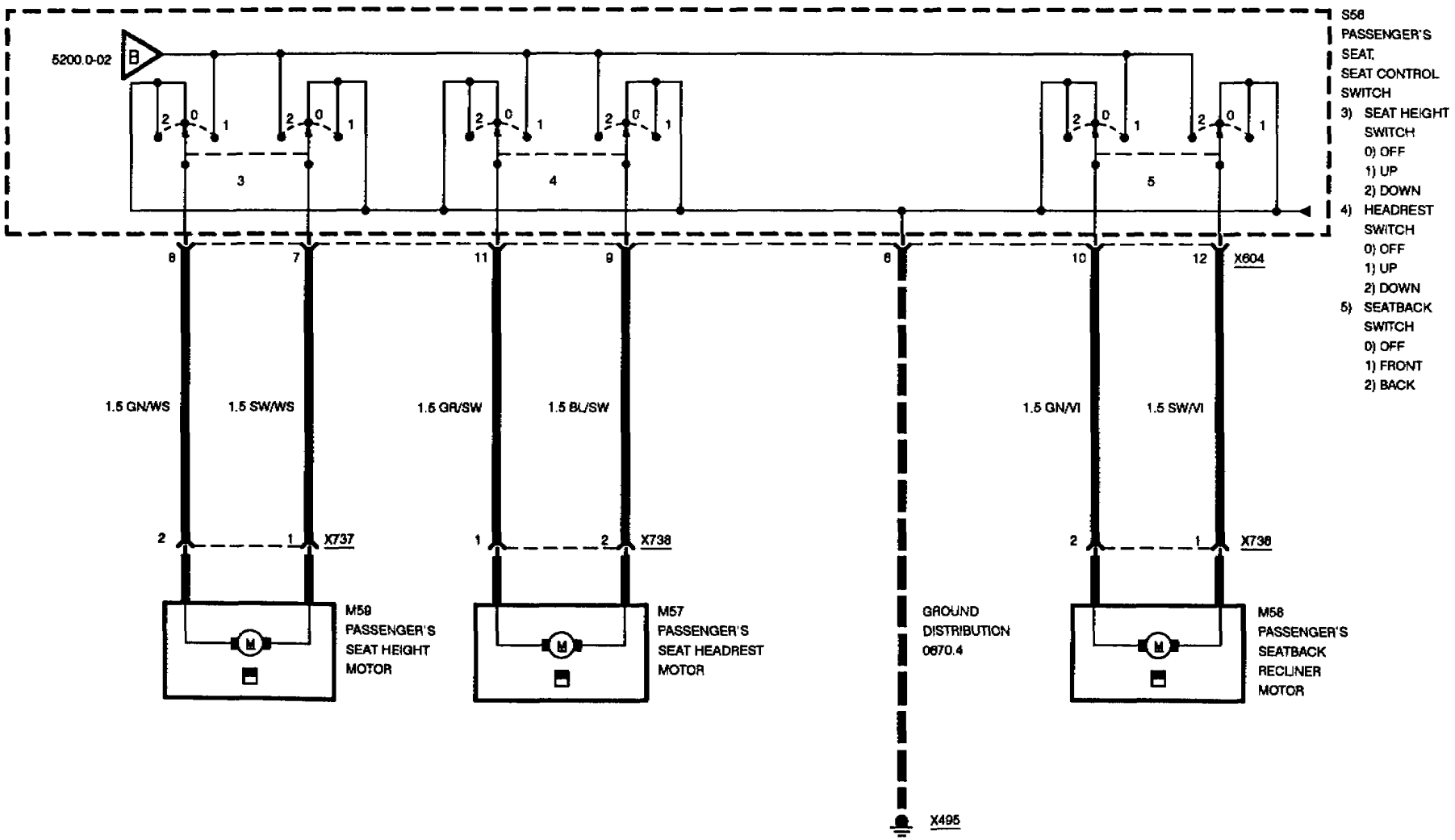
DRIVER'S SEAT



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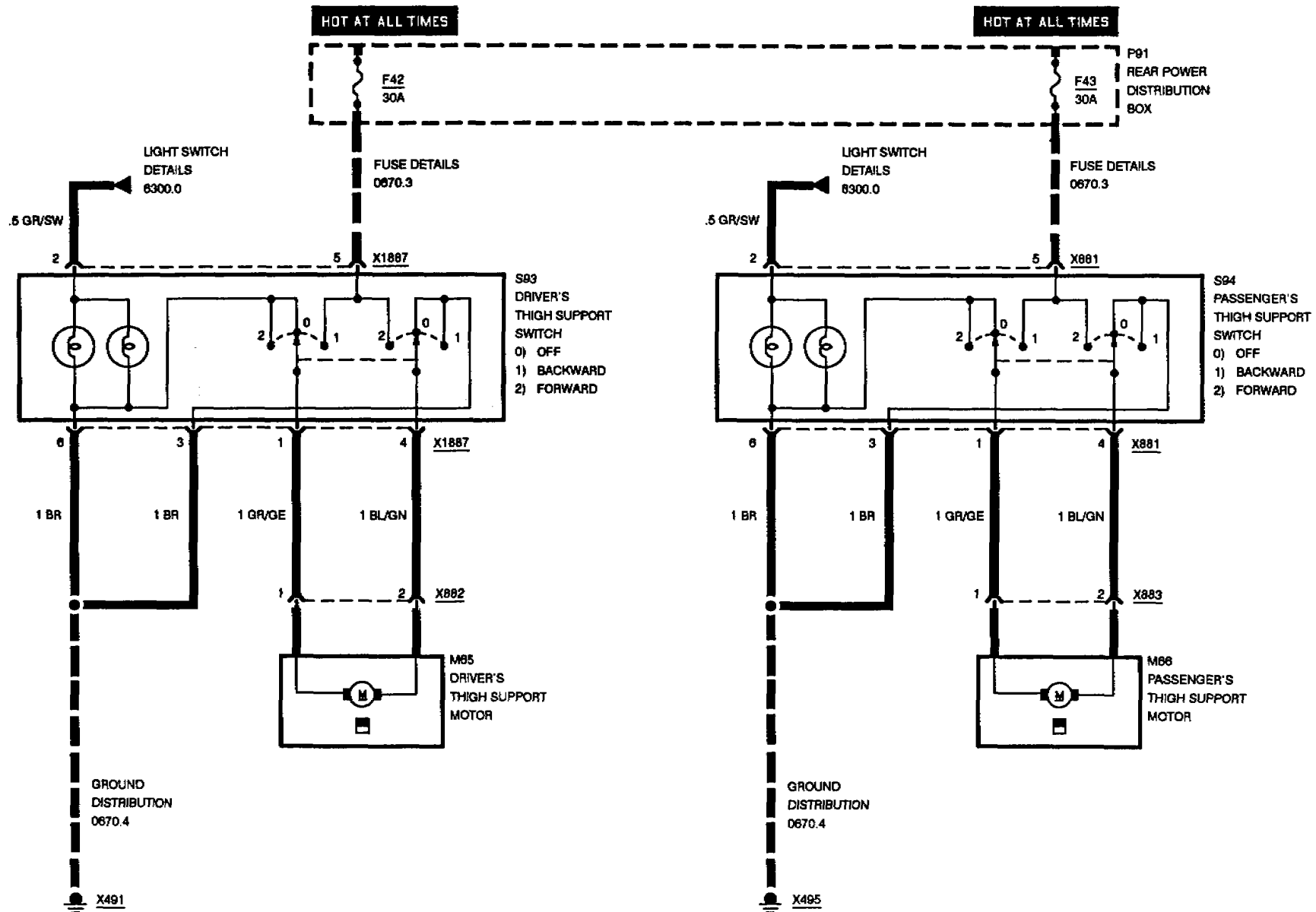
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carldagh.com

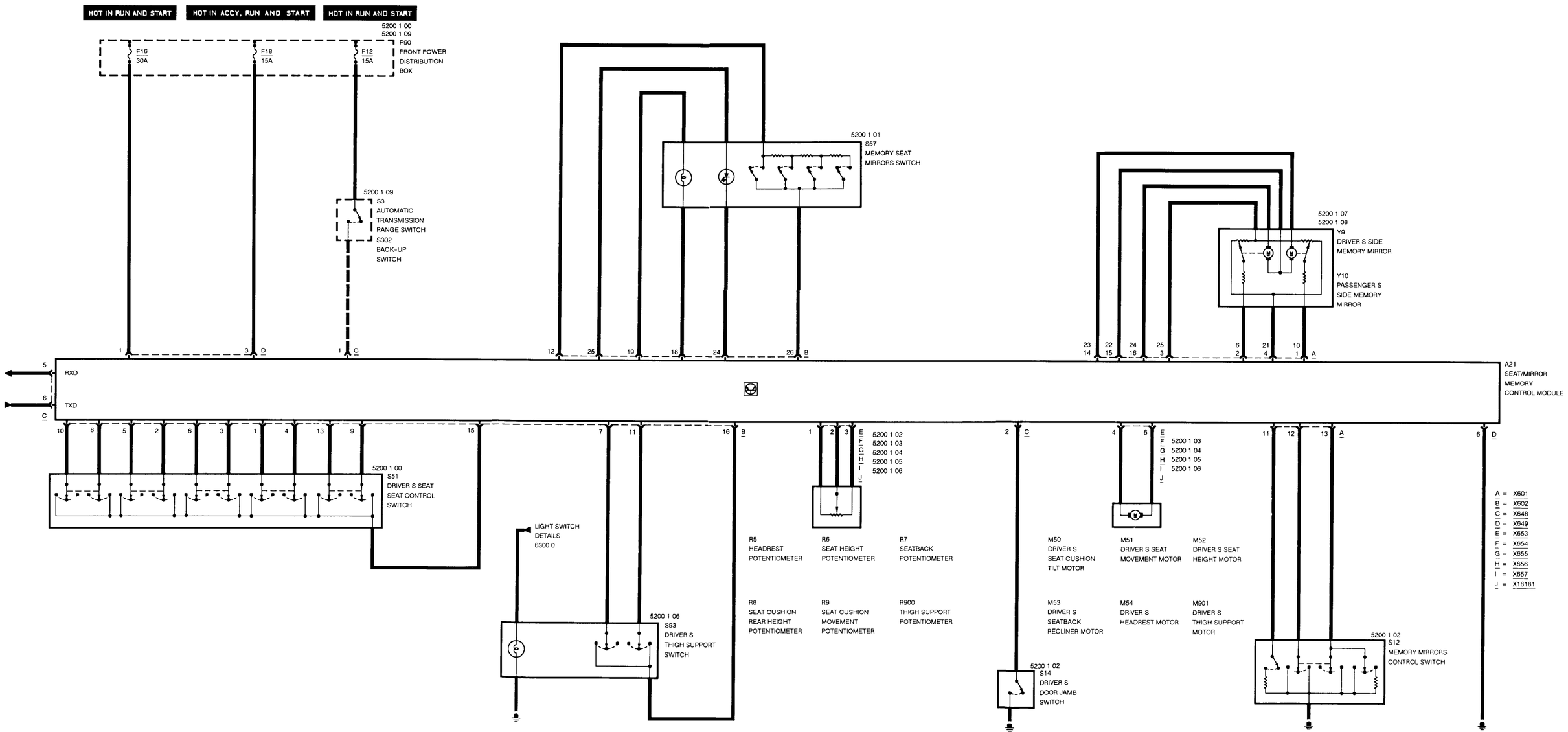
POWER SEATS

THIGH SUPPORT, WITH SPORT SEATS ONLY

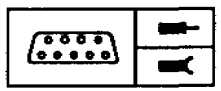


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11/92 5200 1 1992
11/92 5200 1 1992



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Pin Assignments

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

X601

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Potentiometer connection	Driver's mirror	0–4.5 V	Voltage value	
2	E	Potentiometer connection	Driver's mirror	0–4.5 V	Voltage value	
3	A	Position potentiometer, voltage	Driver's mirror	5 V	Voltage value	
4	M	Position potentiometer, ground	Driver's mirror	Ground	Voltage value	
5		Not used				
6	E	Potentiometer connection	Passenger's mirror	0–4.5 V	Voltage value	
7		Not used				
8		Not used				

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
9		Not used				
10	E	Potentiometer connection	Passenger's mirror	0-4.5 V	Voltage value	
11	E	Mirror select signal	Mirror control switch	Ground	Status display	
12	E	Mirror adjustment, L/R	Mirror control switch	Ground	Status display	
13	E	Mirror adjustment, L/R and U/D	Mirror control switch	Ground	Status display	
14	E/A	Connection, driver's mirror adjustment motor	Mirror adjustment motor, horizontal			
15	E/A	Connection, driver's mirror adjustment motor	Mirror adjustment motors, horizontal/vertical			
16	E/A	Connection, driver's mirror adjustment motor	Mirror adjustment motor, vertical			
17		Not used				
18		Not used				
19		Not used				
20		Not used				
21	M	Position potentiometer, ground	Passenger's mirror	Ground	Voltage value	
22	E/A	Connection, passenger's mirror adjustment motor	Passenger's mirror adjustment motor, horizontal/vertical			
23	E/A	Connection, passenger's mirror adjustment motor	Passenger's mirror adjustment motor, horizontal			
24	E/A	Connection, passenger's mirror adjustment motor	Passenger's mirror adjustment motor, vertical			
25	A	Position potentiometer voltage	Passenger's mirror	5 V	Voltage value	
26		Not used				

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MEMORY SEATS/MIRRORS (SM/SPM)

X602

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Headrest down	Seat adjustment switch	Ground	Status display	
2	E	Tilt, down	Seat adjustment switch	Ground	Status display	
3	E	Height, down	Seat adjustment switch	Ground	Status display	
4	E	Headrest up	Seat adjustment switch	Ground	Status display	
5	E	Tilt, up	Seat adjustment switch	Ground	Status display	
6	E	Height, up	Seat adjustment switch	Ground	Status display	
7	E	Thigh support, backward	Thigh support switch	Ground	Status display	
8	E	Seat movement, back	Seat adjustment switch	Ground	Status display	
9	E	Backrest, back	Seat adjustment switch	Ground	Status display	
10	E	Seat movement, forward	Seat adjustment switch	Ground	Status display	
11	E	Thigh support, forward	Thigh support switch	Ground	Status display	
12	A	Memory switch voltage	Memory switch	5 V	Status display	
13	E	Backrest, forward	Seat adjustment switch	Ground	Status display	
14		Not used				
15	E	Ground	Seat adjustment switch	Ground		
16	E	Ground	Thigh support switch			
17		Not used				
18	A	Switch illumination (–)	Memory switch	Ground		
19	A	Switch illumination (+)	Memory switch	12 V		
20		Not used				
21		Not used				
22		Not used				

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
23		Not used				
24	A	Memory switch LED (-)	Memory switch	Ground		
25	A	Memory switch LED (+)	Memory switch	2 V		
26	E	Memory switch signal	Memory switch	Voltage value		

X648

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Reverse gear signal	Back up switch			
2	E	Driver's door status	Driver's door jamb switch			
3		Not used				
4		Not used				
5	A	Diagnosis (RxD)	Diagnosis connector			
6	E	Diagnosis (TxD)	Diagnosis connector			

X649

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Terminal 15 voltage	Fuse			
2		Not used				
3	E	Terminal R voltage	Fuse			
4		Not used				
5		Not used				
6	M	Ground	Ground point			

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X653

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Driver's headrest pot.			
2	E	Headrest position signal	Driver's headrest pot.			
3	M	Ground	Driver's headrest pot.			
4	E/A	Motor voltage/ground	Driver's headrest motor			
5		Not used				
6	E/A	Motor voltage/ground	Driver's headrest motor			

X654

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Driver's seat height pot.			
2	E	Seat height position signal	Driver's seat height pot.			
3	M	Ground	Driver's seat height pot.			
4	E/A	Motor voltage/ground	Driver's seat height motor			
5		Not used				
6	E/A	Motor voltage/ground	Driver's seat height motor			

X655

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Driver's seat back pot.			
2	E	Seat back position signal	Driver's seat back pot.			
3	M	Ground	Driver's seat back pot.			

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
4	E/A	Motor voltage/ground	Driver's seat back recliner motor			
5		Not used				
6	E/A	Motor voltage/ground	Driver's seat back recliner motor			

X656

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Driver's seat rear height pot.			
2	E	Seat rear height signal	Driver's seat rear height pot.			
3	M	Ground	Driver's seat rear height pot.			
4	E/A	Motor voltage/ground	Driver's seat cushion tilt motor			
5		Not used				
6	E/A	Motor voltage/ground	Driver's seat cushion tilt motor			

cardiagn.com

X657

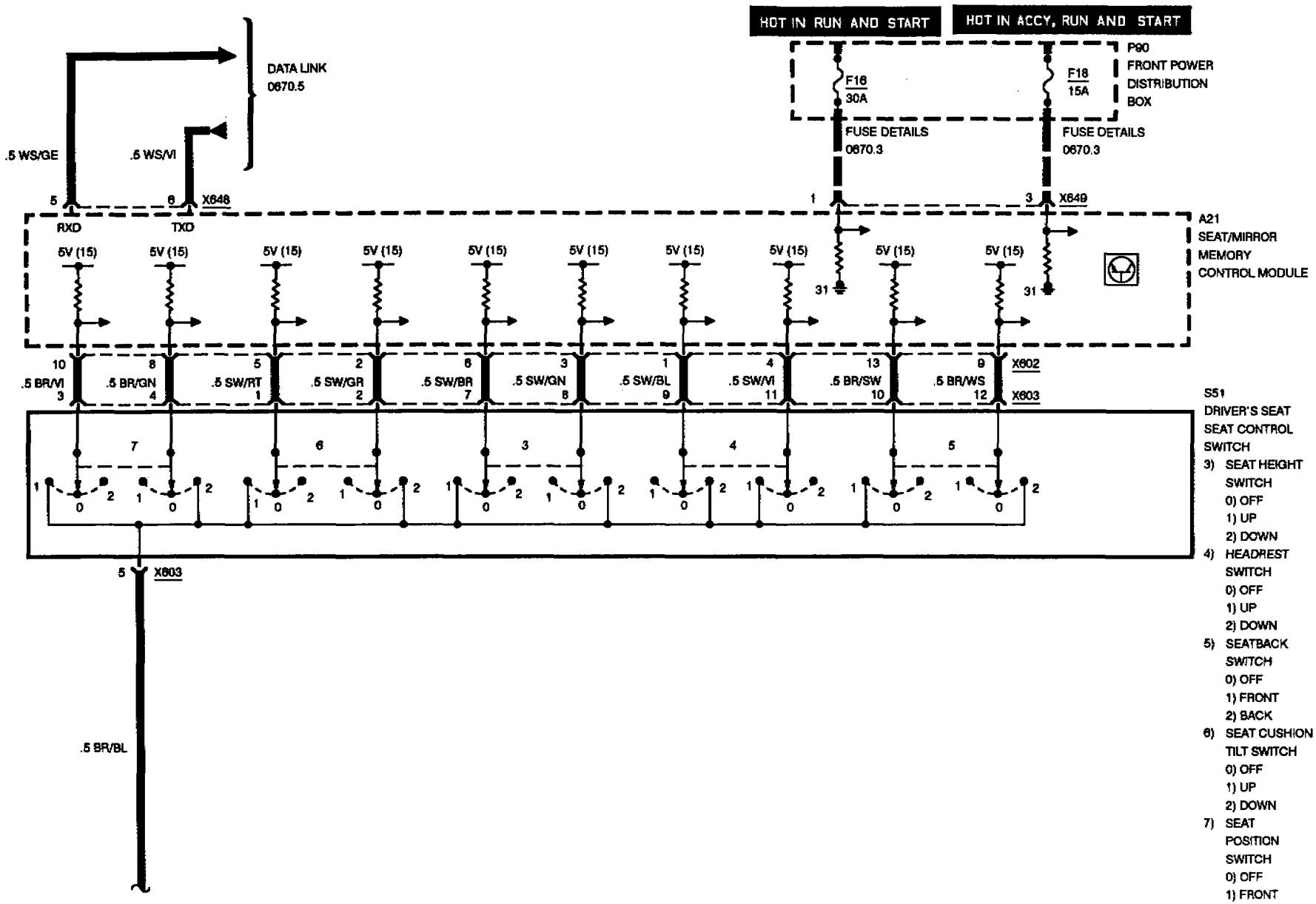
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Driver's seat potentiometer			
2	E	Seat cushion position signal	Driver's seat potentiometer			
3	M	Ground	Driver's seat potentiometer			
4	E/A	Motor voltage/ground	Driver's seat movement motor			
5		Not used				
6	E/A	Motor voltage/ground	Driver's seat movement motor			

X18181

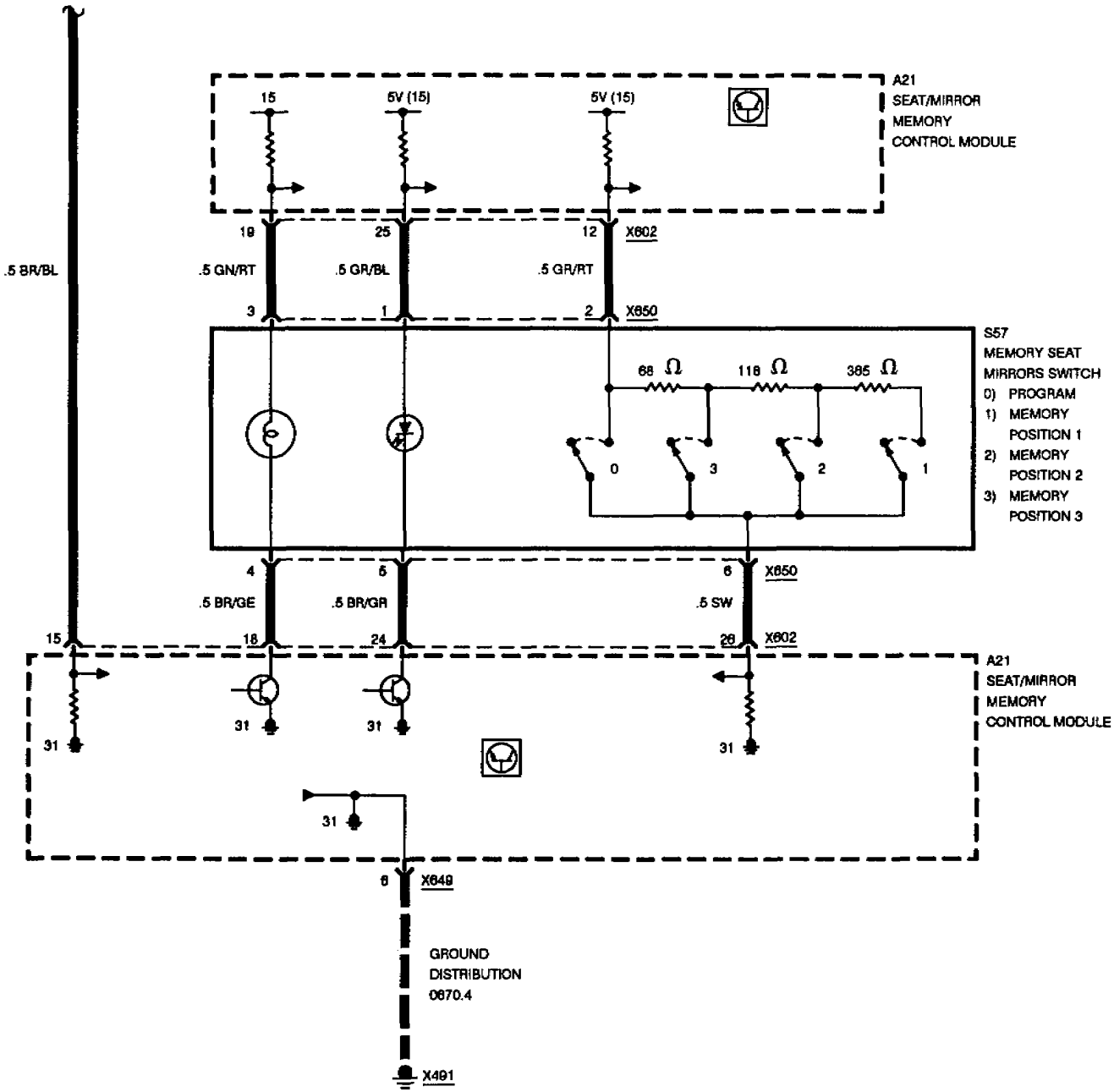
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Driver's seat thigh support pot.			
2	E	Thigh support position signal	Driver's seat thigh support pot.			
3	M	Ground	Driver's seat thigh support pot.			
4	E/A	Motor voltage/ground	Driver's seat thigh support motor			
5		Not used				
6	E/A	Motor voltage/ground	Driver's seat thigh support motor			

carmanuals.com

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

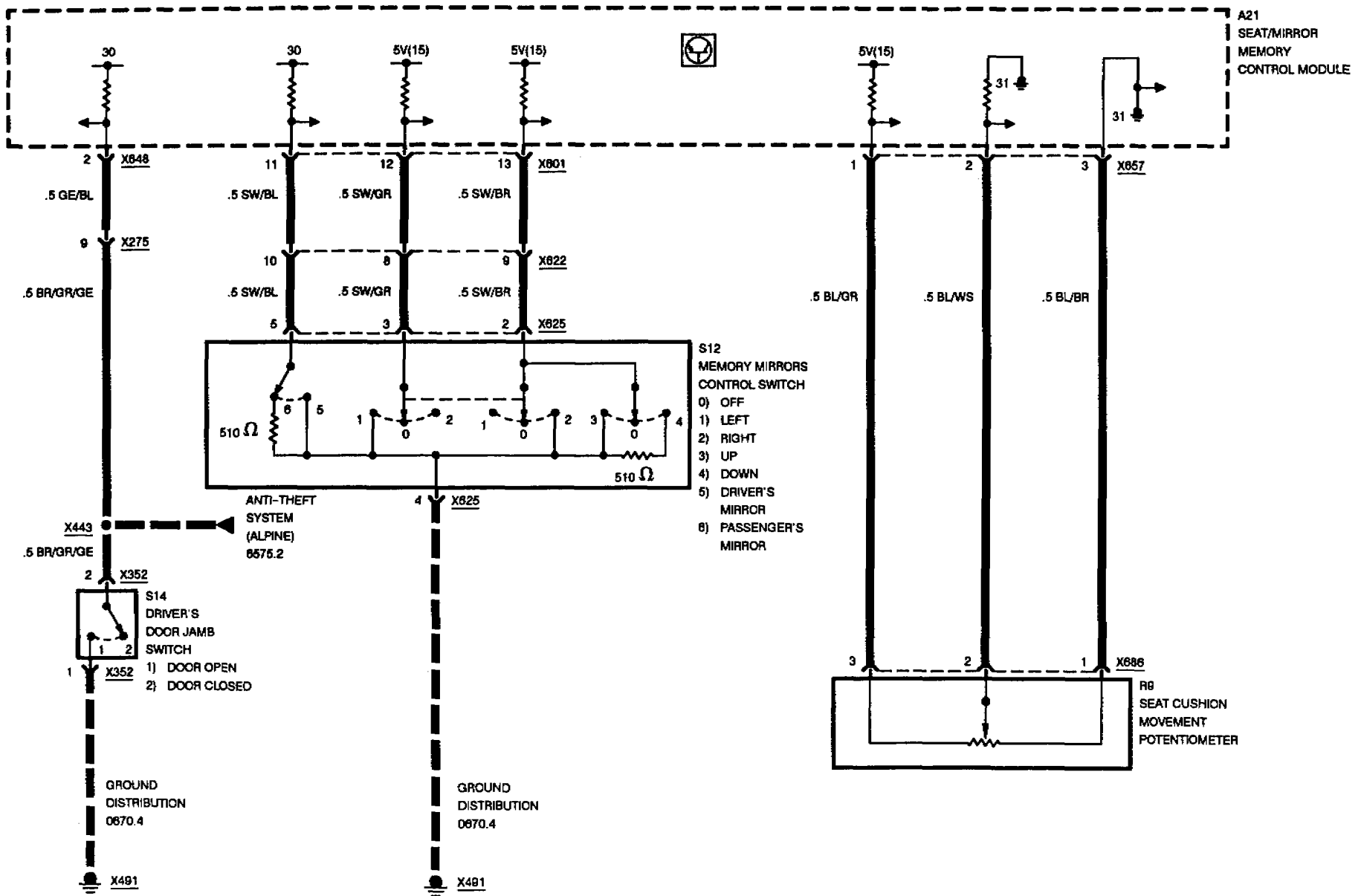


cardiagn.com



cardiagn.com

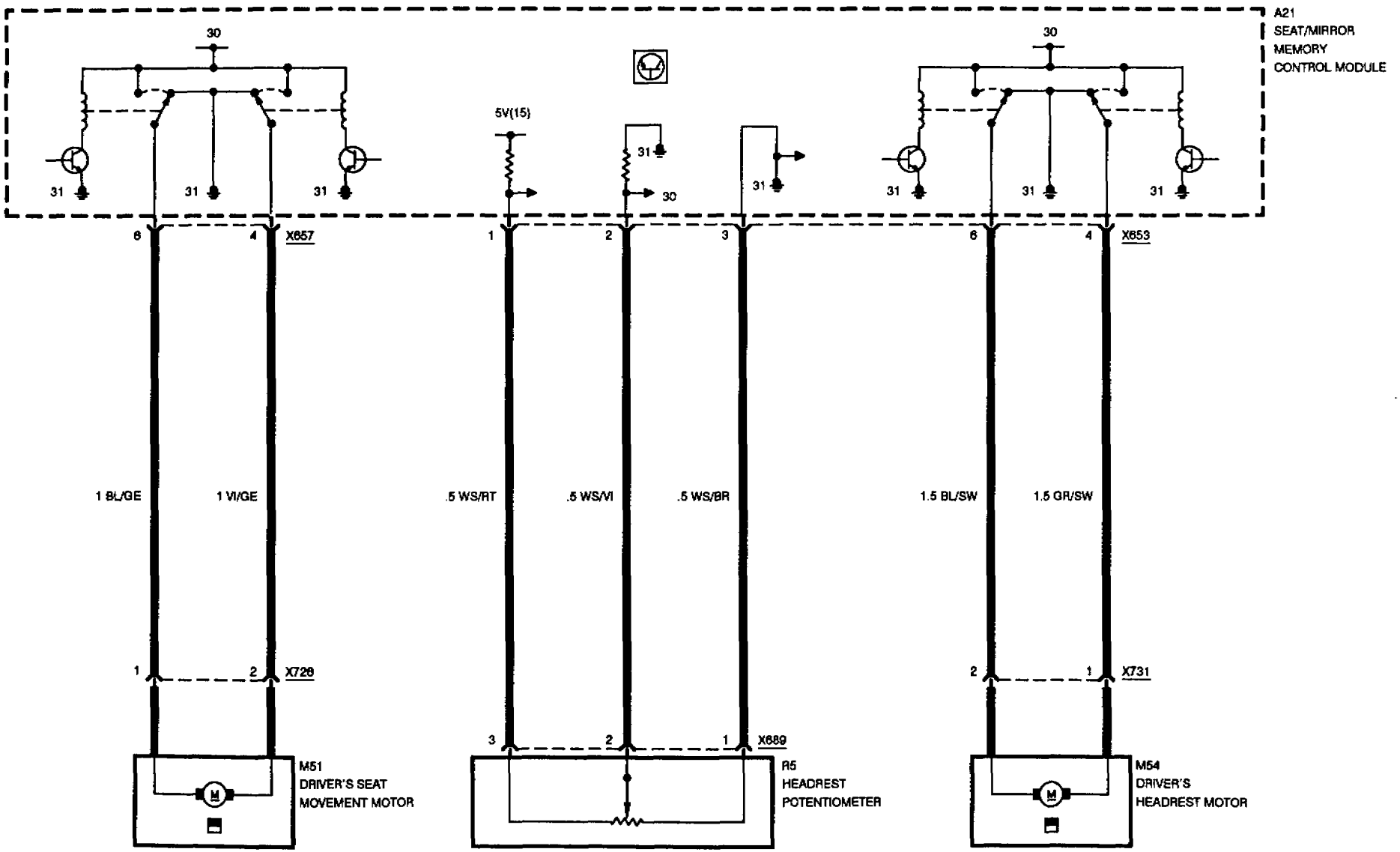
SEAT/MIRROR MEMORY SYSTEM (SM/SPM)



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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

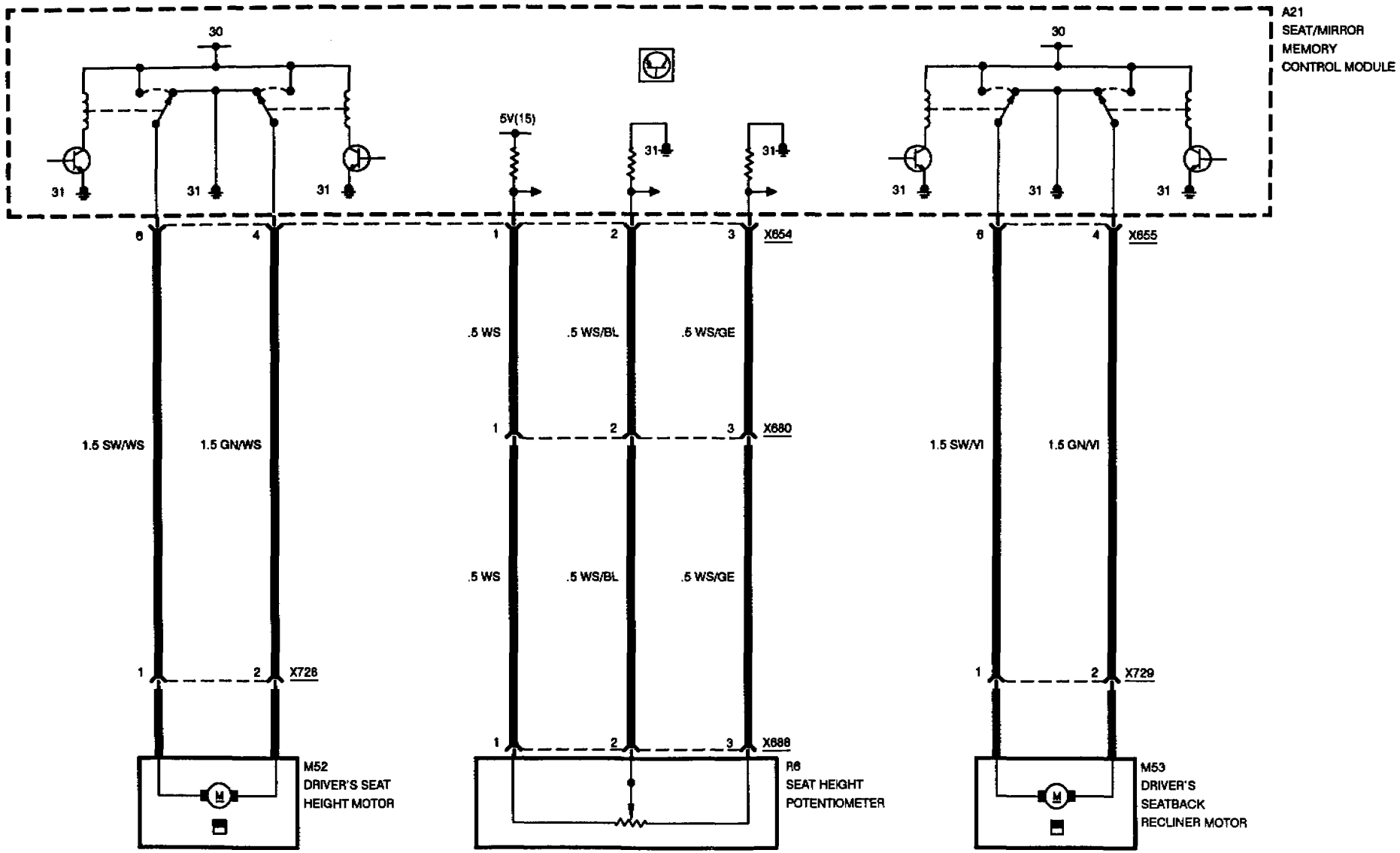
SEAT



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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

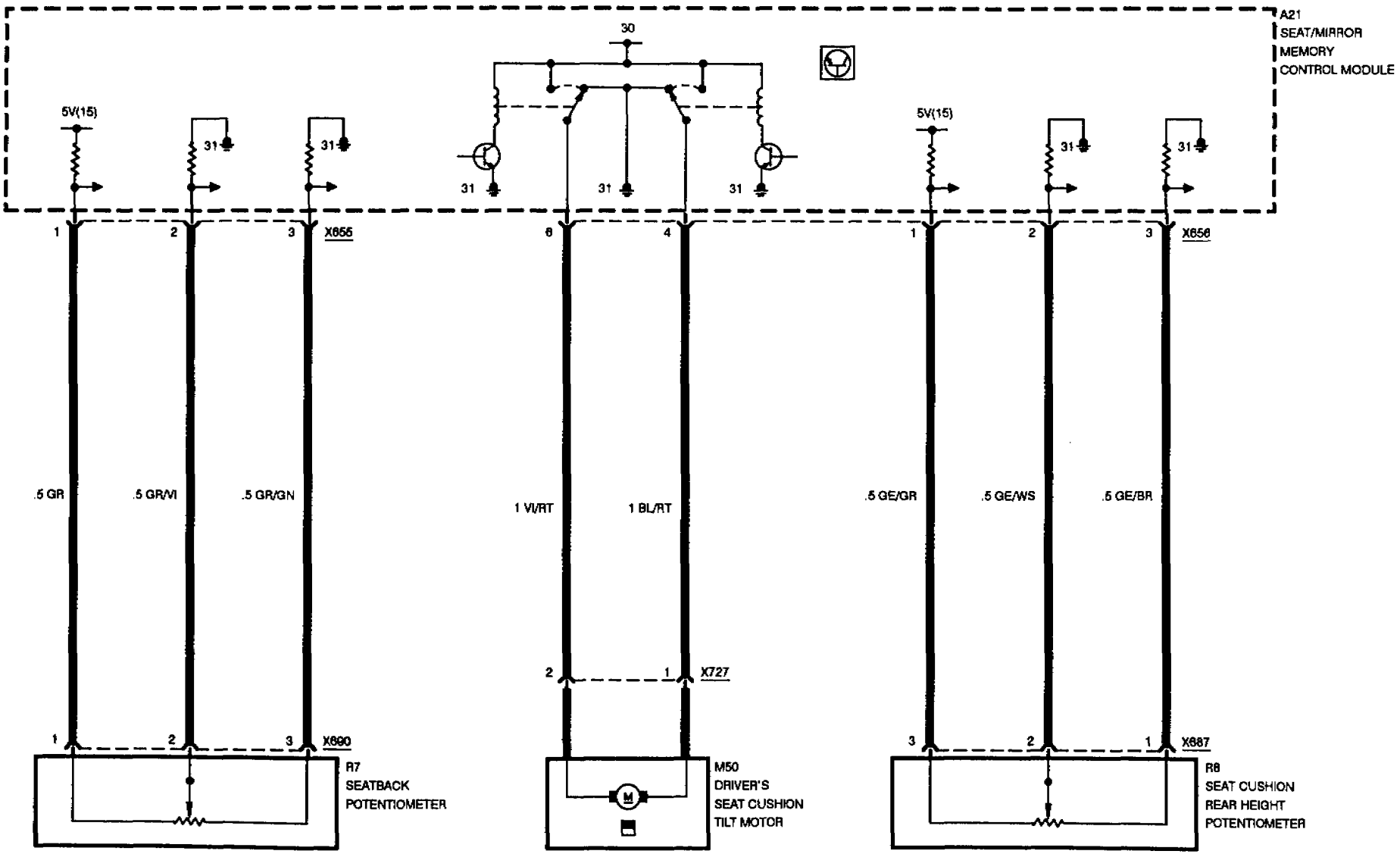
SEAT



cardiagn.com

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

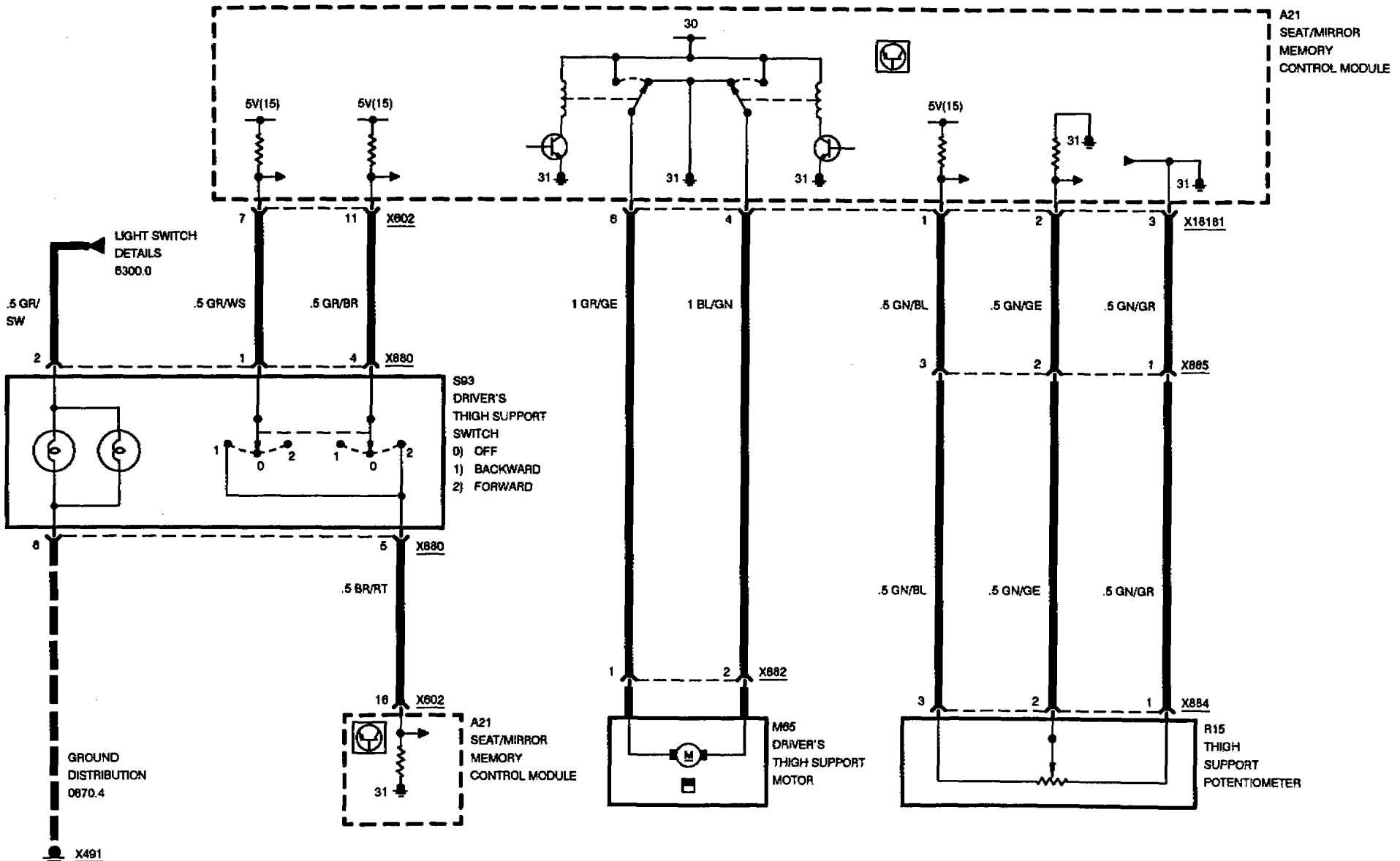
SEAT



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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

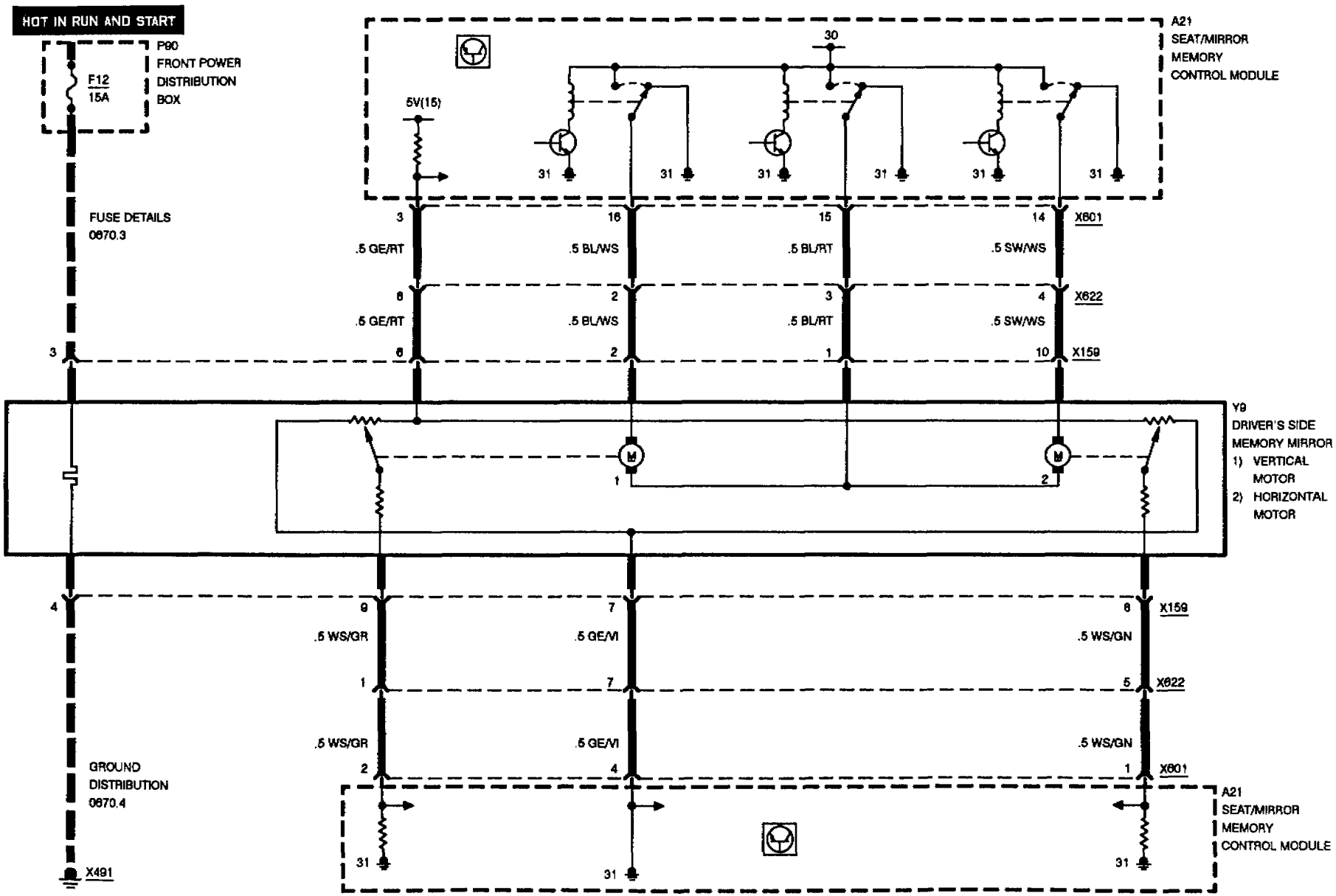
WITH SPORT SEAT



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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

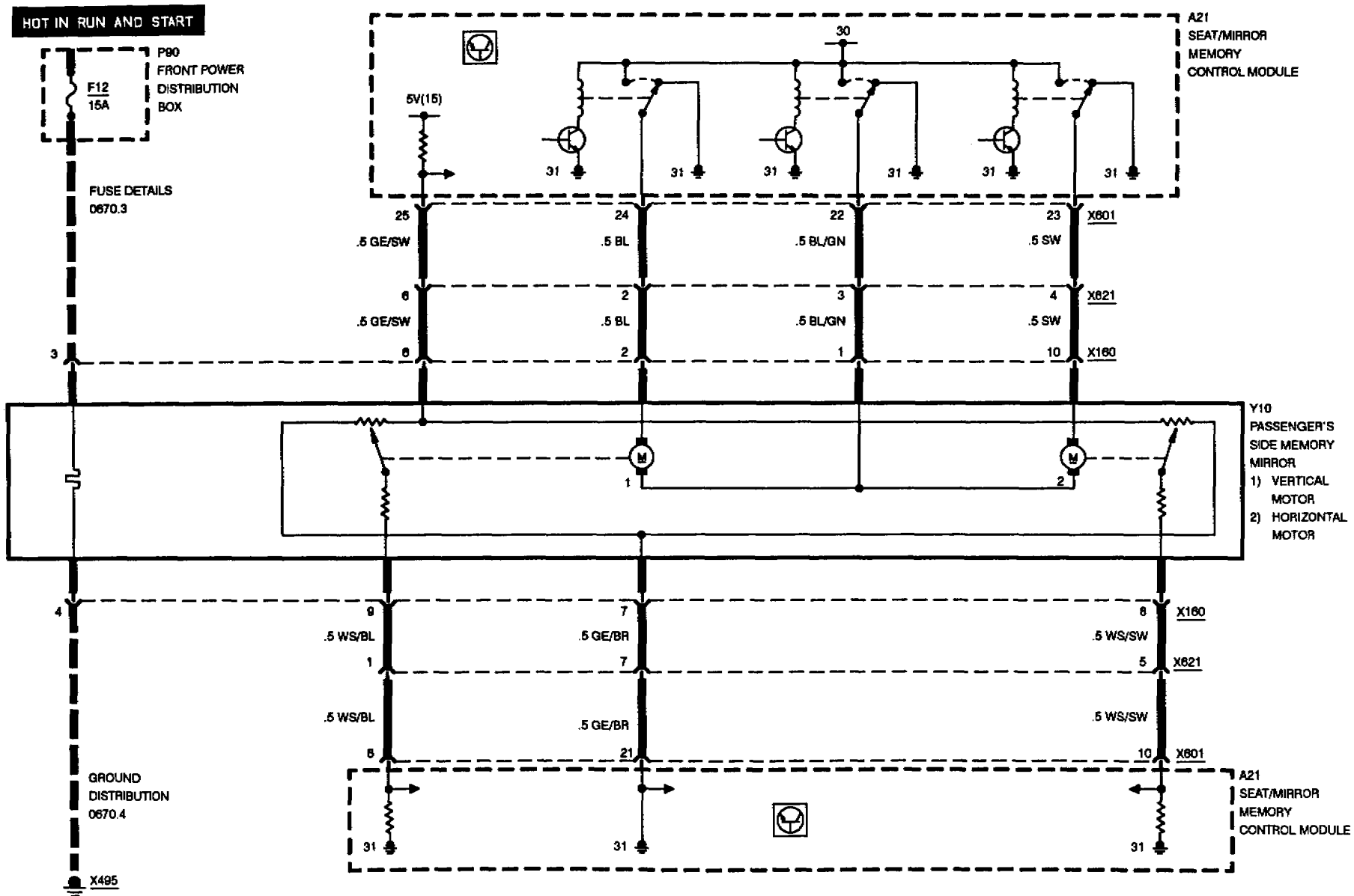
MIRROR



carplan.com

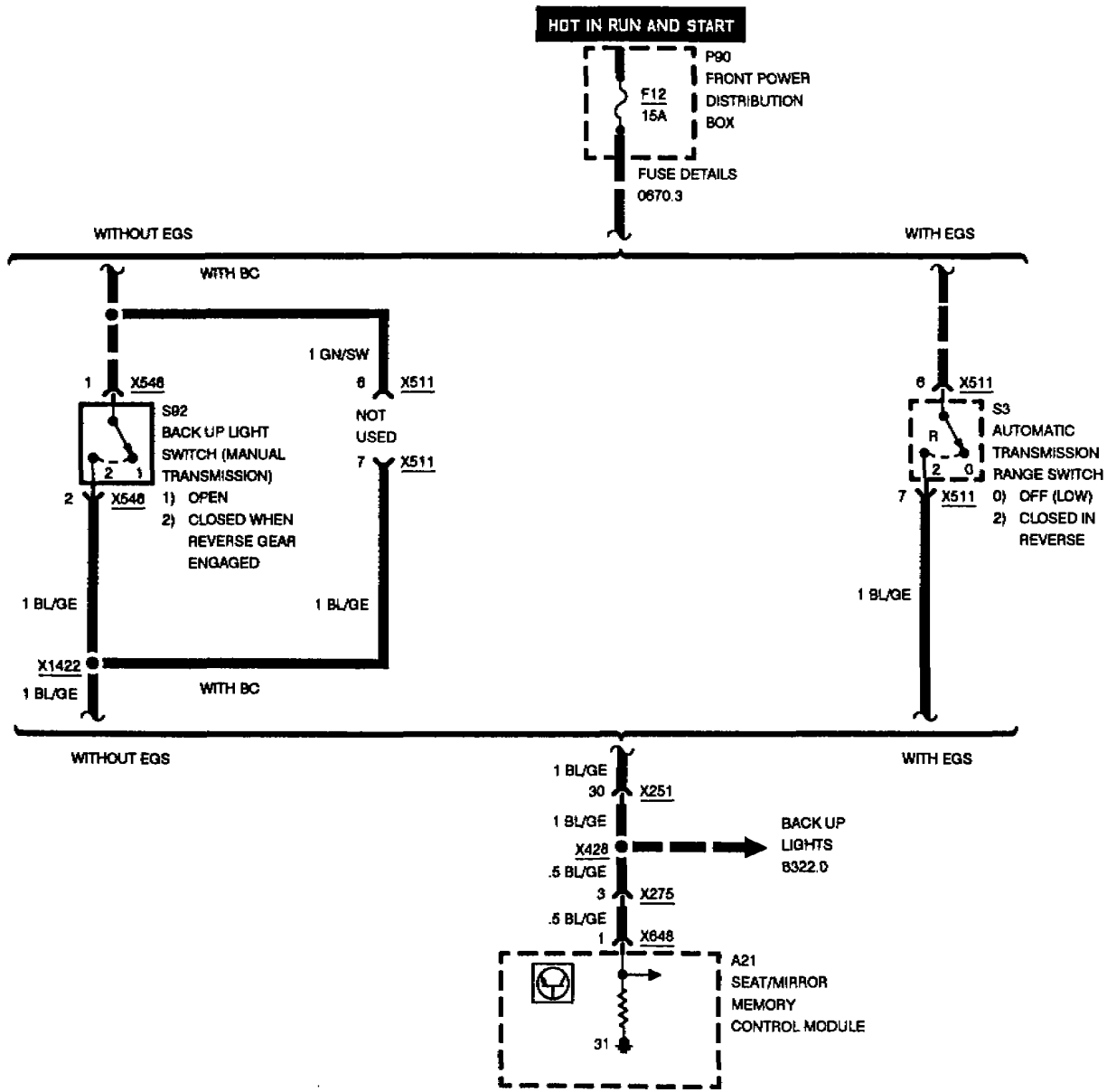
SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

MIRROR



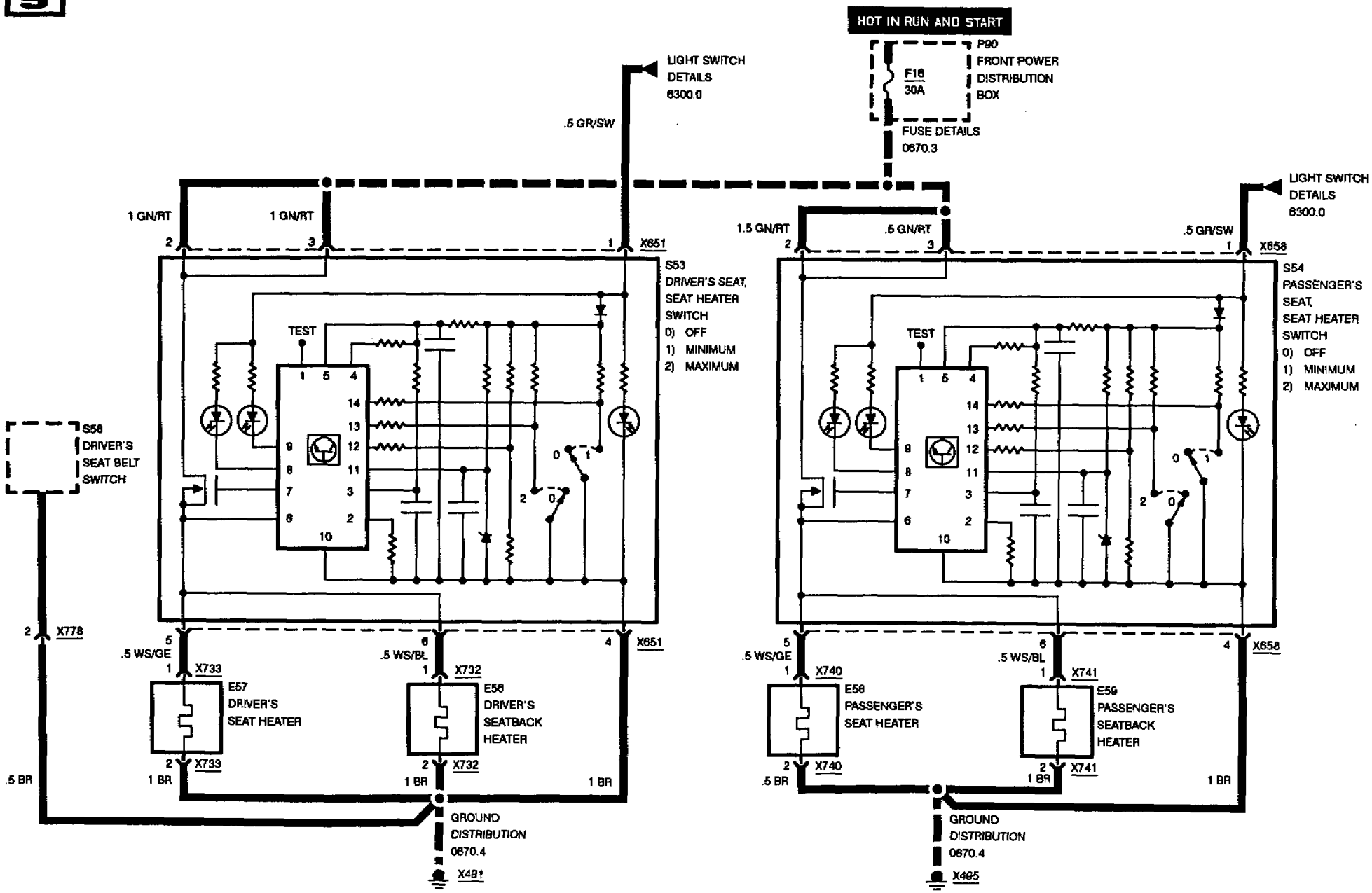
cardiagn.com

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)



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HEATED SEATS

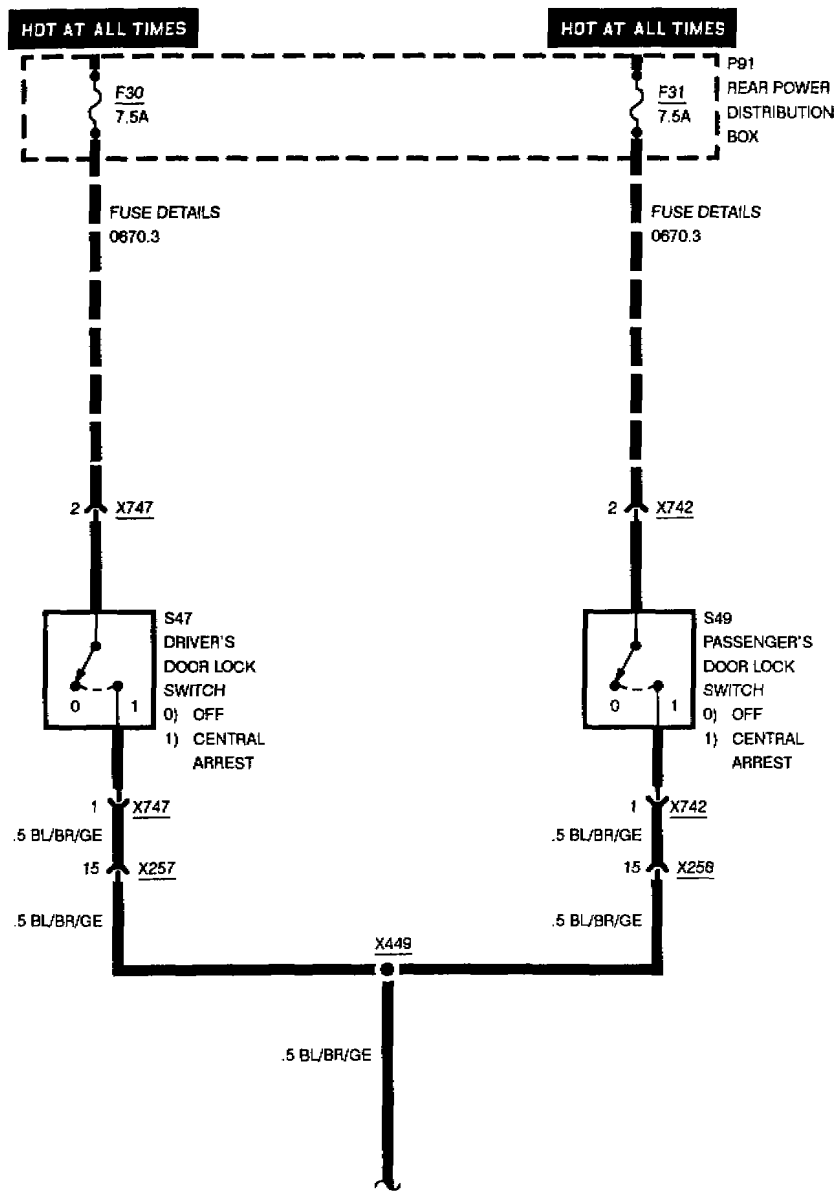


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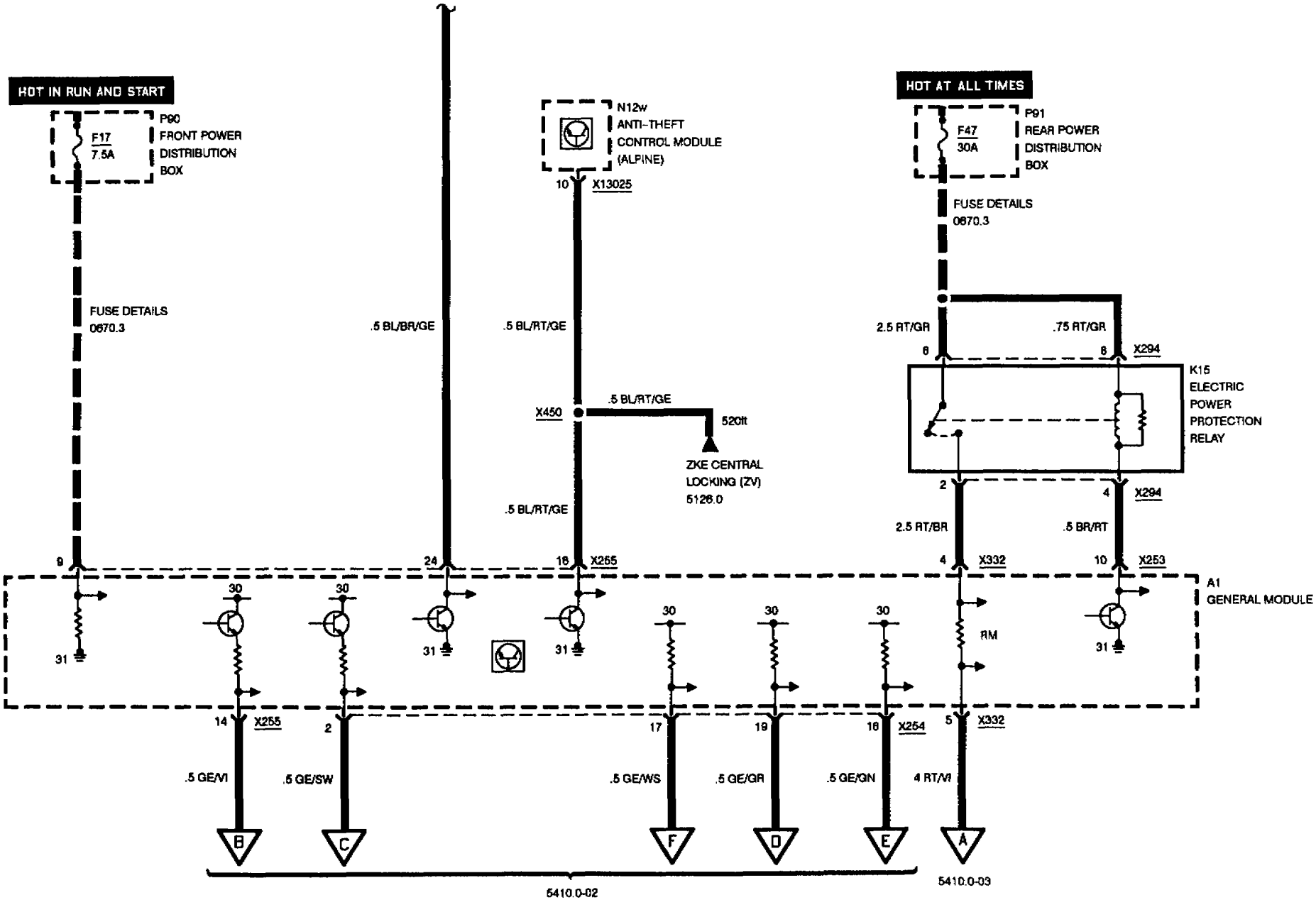
cardiagn.com

ZKE SUNROOF (SHD)

INPUT DETAILS



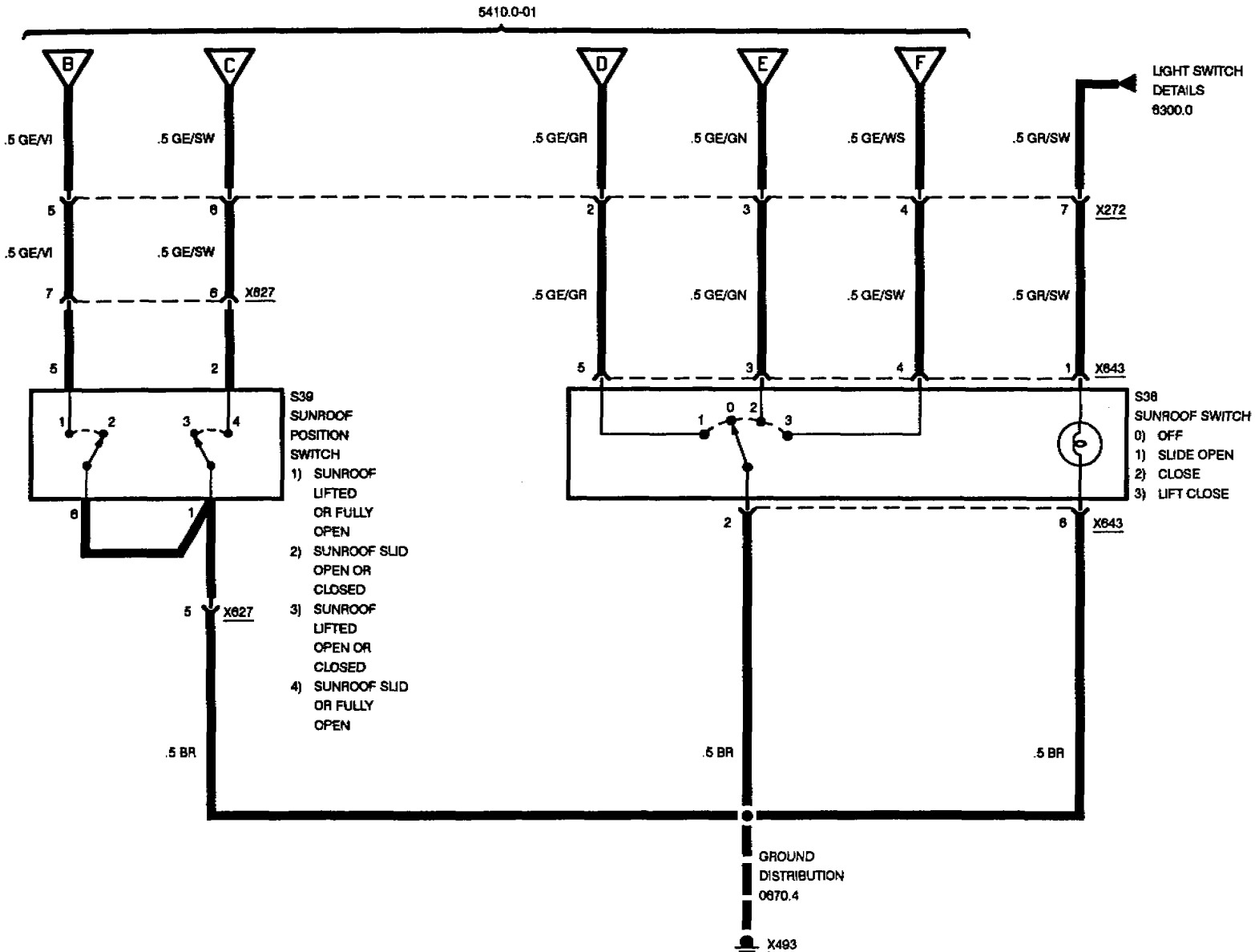
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ZKE SUNROOF (SHD)

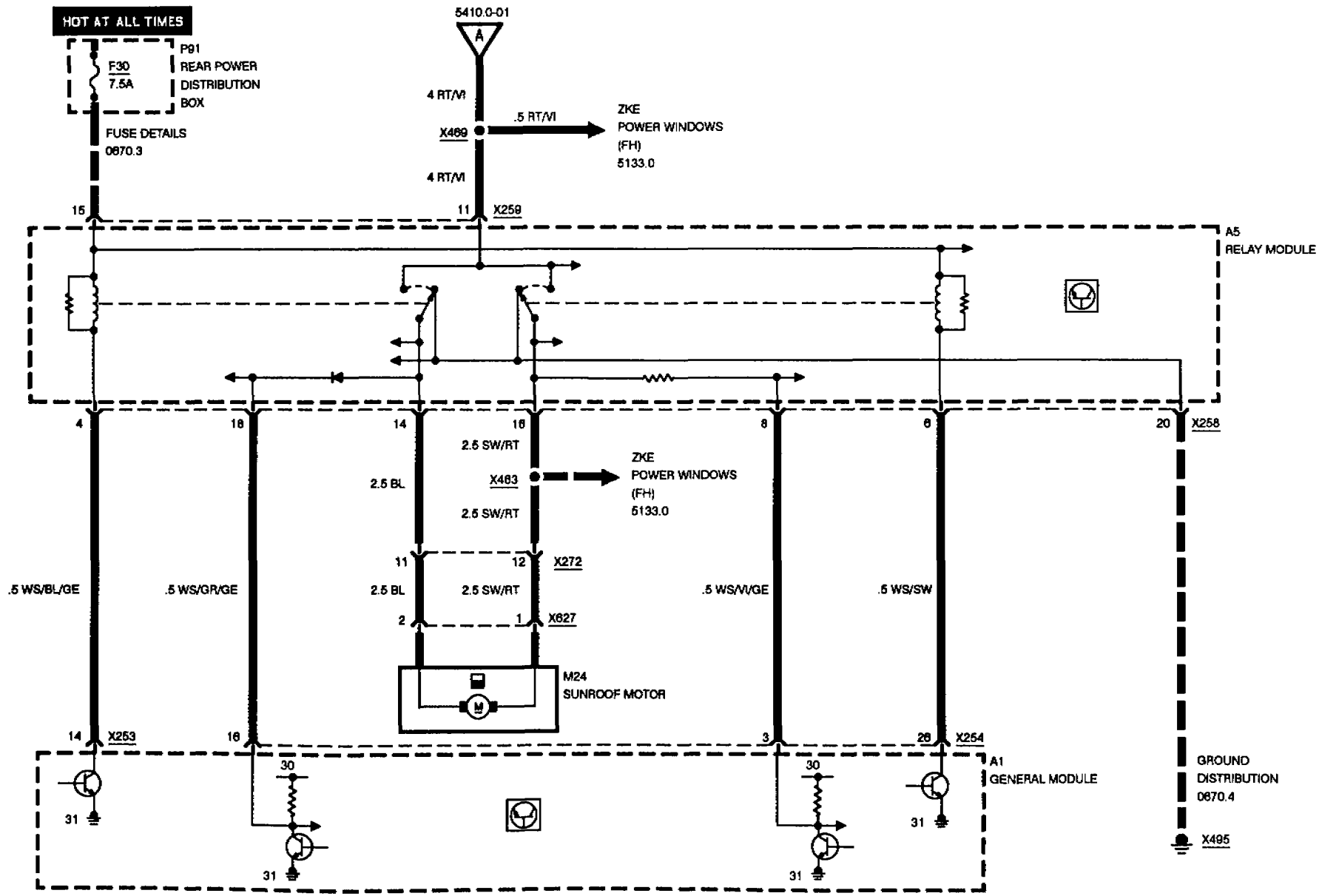
INPUT DETAILS



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ZKE SUNROOF (SHD)

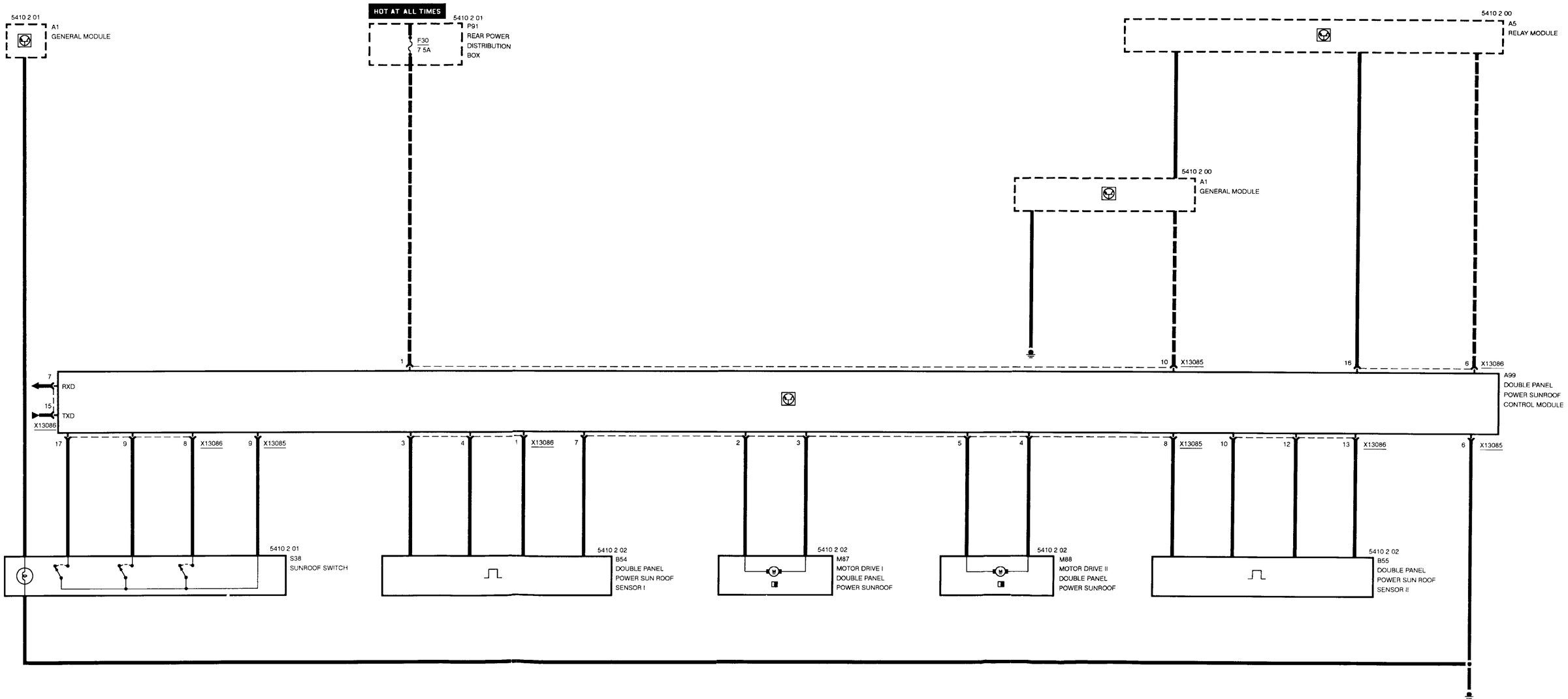
OUTPUT DETAILS



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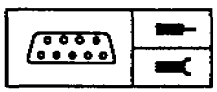
cardiagn.com

11/92 5410 2 1992
11/92 5410 2 1992



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DOUBLE PANEL POWER SUNROOF (ZKE)



Pin Assignments

A = X13085 10 Pins
B = X13086 18 Pins

X13085

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Power, terminal 30	Power distribution box	approx. 12 V		
2	E/A	Motor voltage/ground	Motor, front roof			
3	E/A	Motor voltage/ground	Motor, front roof			
4	E/A	Motor voltage/ground	Motor, rear roof			
5	E/A	Motor voltage/ground	Motor, rear roof			
6	M	Module ground	Ground	Ground		
7	A	Power	Sensor, front roof			
8	A	Power	Sensor, rear roof			
9	A	Power	Switch, double panel power sunroof			
10	E	Power	General module			

X13086

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Position contact	Sensor, front roof			
2		Not used				

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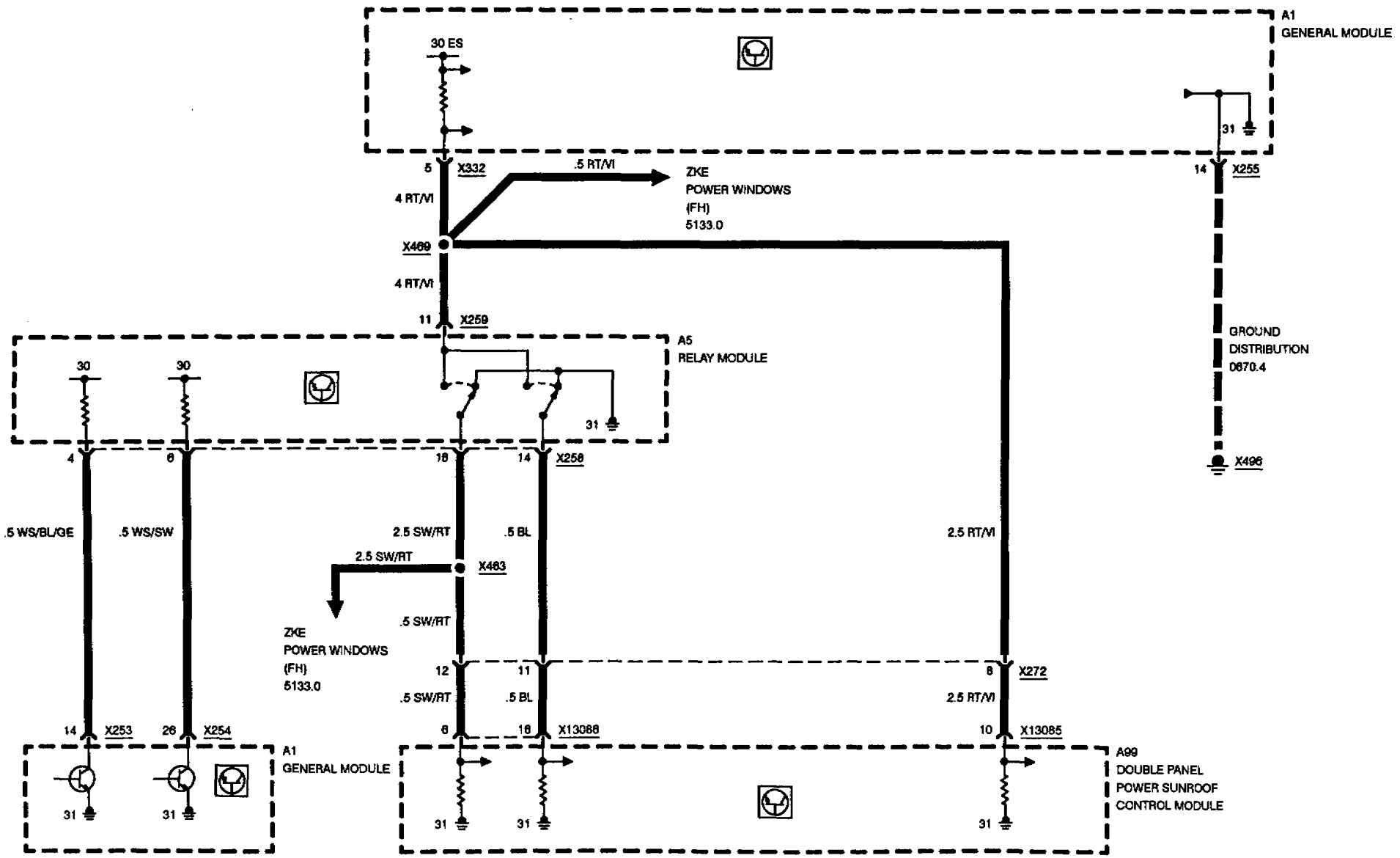
DOUBLE PANEL POWER SUNROOF (ZKE)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
3	E	Position contact	Sensor, front roof			
4	E	Position contact	Sensor, front roof			
5		Not used				
6	E	Control signal	Relay module			
7	A	RxD	Diagnostic connector			
8	E	Switch, closed	Switch, double panel power sunroof			
9	E	Switch, closed	Switch, double panel power sunroof			
10	E	Position contact	Sensor, rear roof			
11		Not used				
12	E	Position contact	Sensor, rear roof			
13	E	Position contact	Sensor, rear roof			
14		Not used				
15	E	TxD	Diagnostic connector			
16	E	MSD+	Relay module			
17	E	Switch closed	Switch, double panel power sunroof			
18		Not used				

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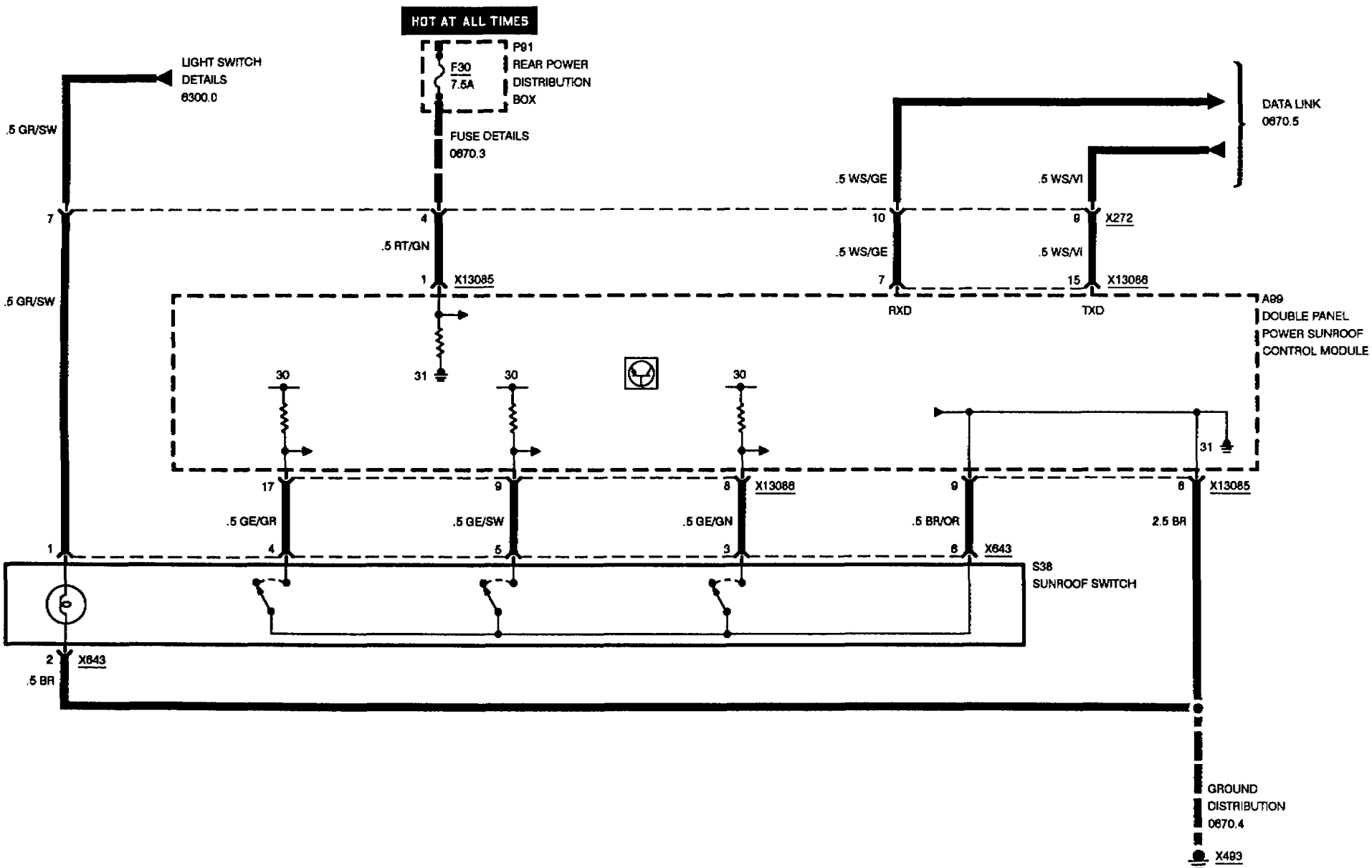
cardiagn.com

DOUBLE PANEL POWER SUNROOF (ZKE)



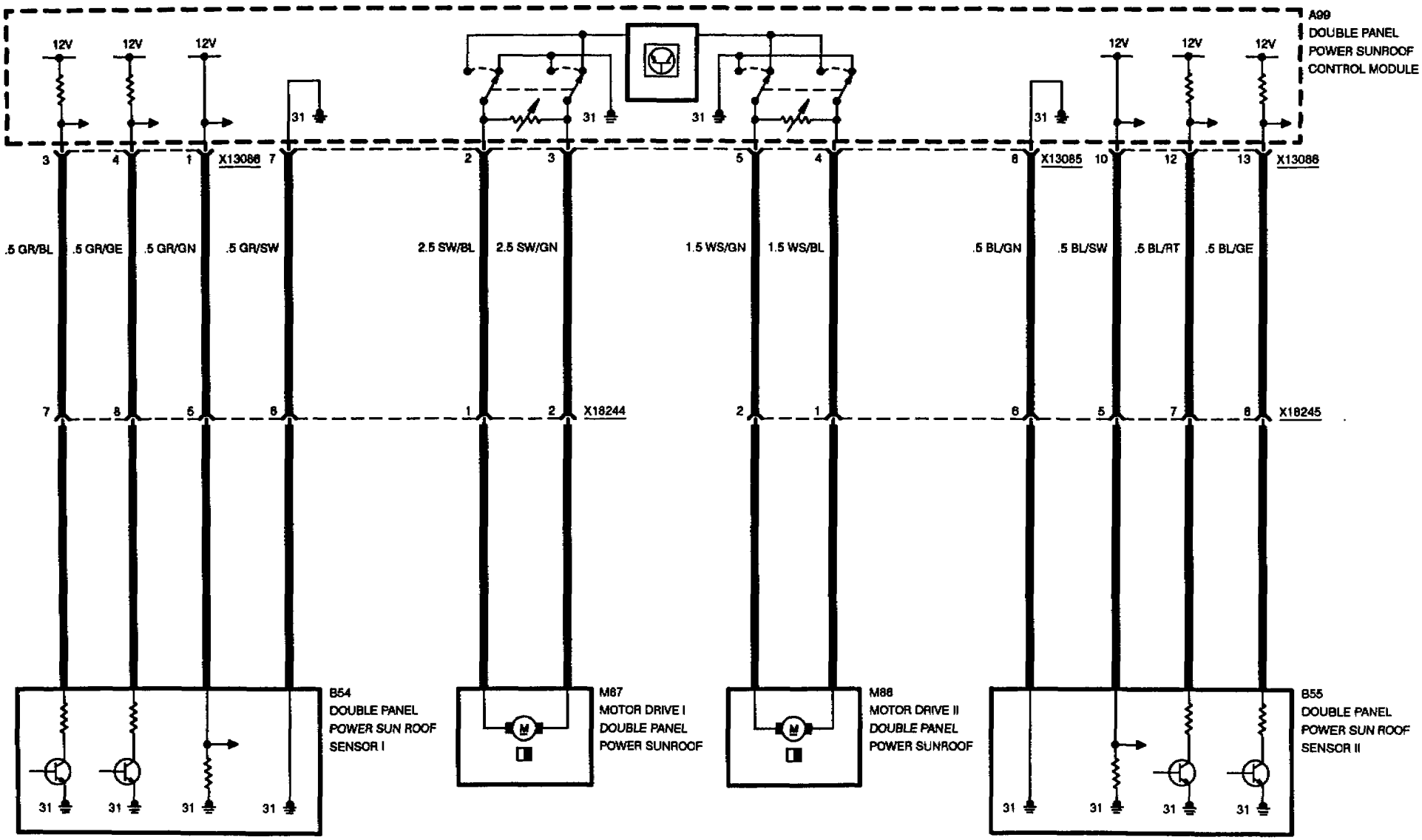
carplan.com

DOUBLE PANEL POWER SUNROOF (ZKE)



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DOUBLE PANEL POWER SUNROOF (ZKE)

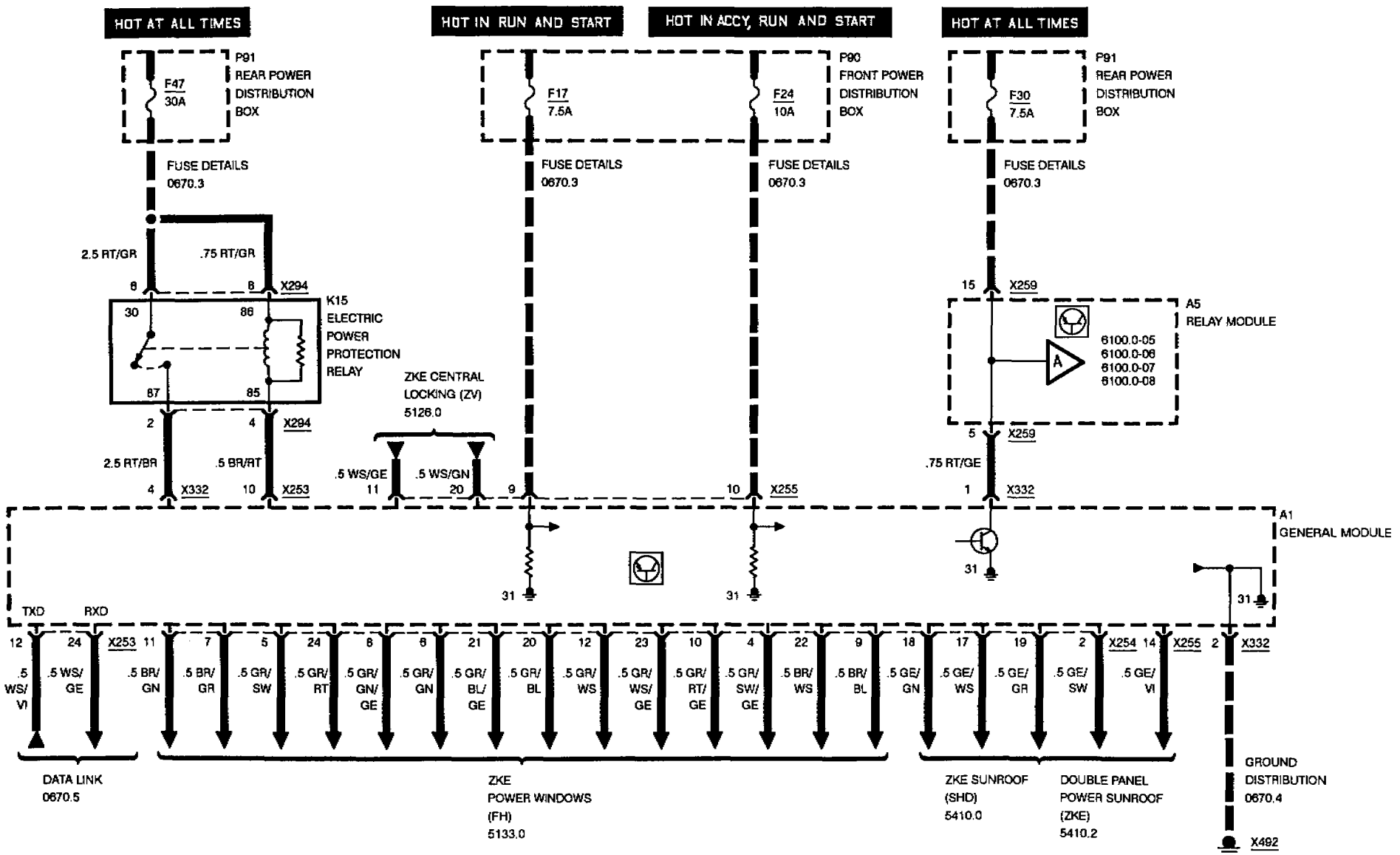


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CENTRAL BODY ELECTRONICS (ZKE)

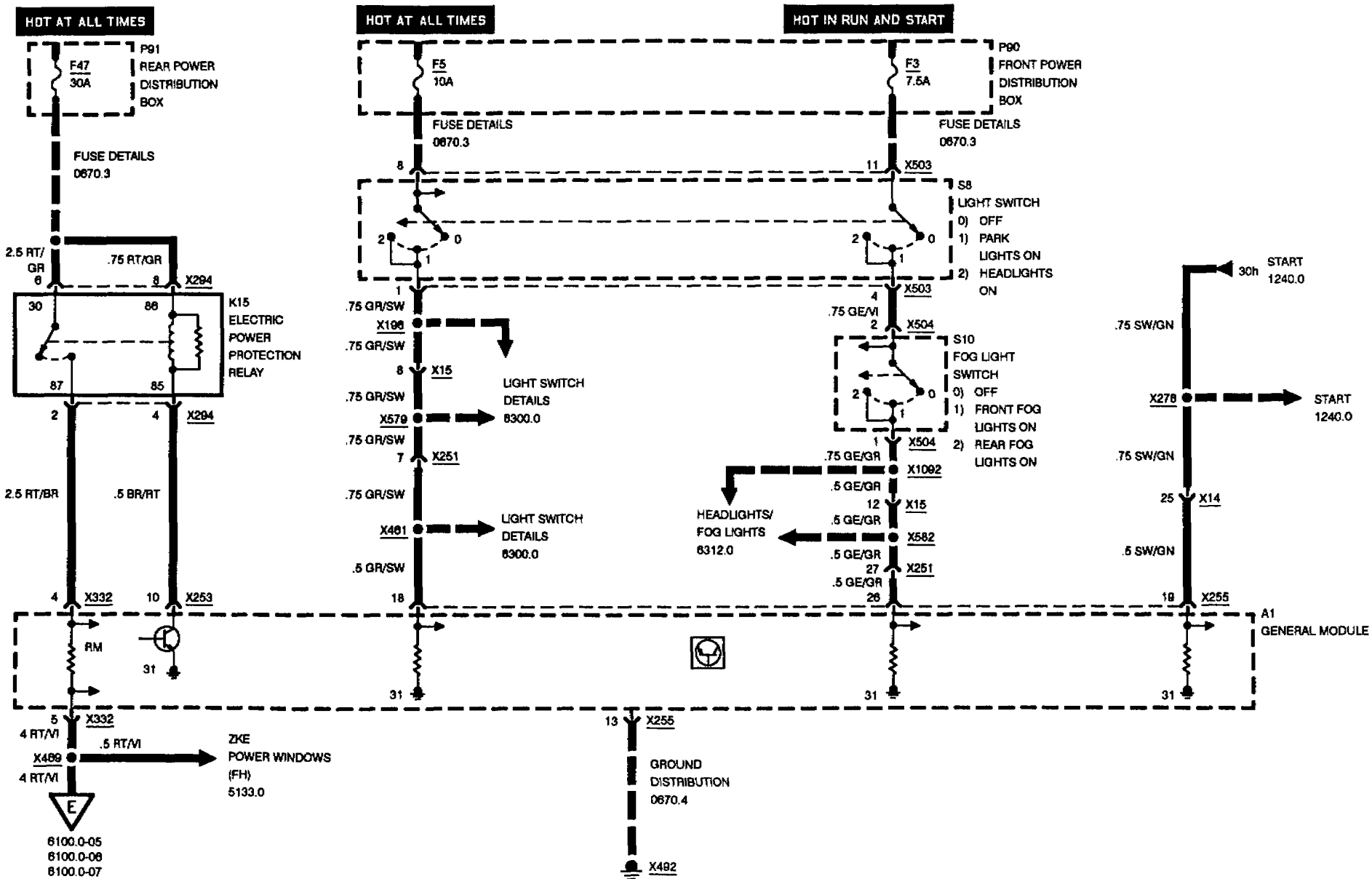
GENERAL MODULE



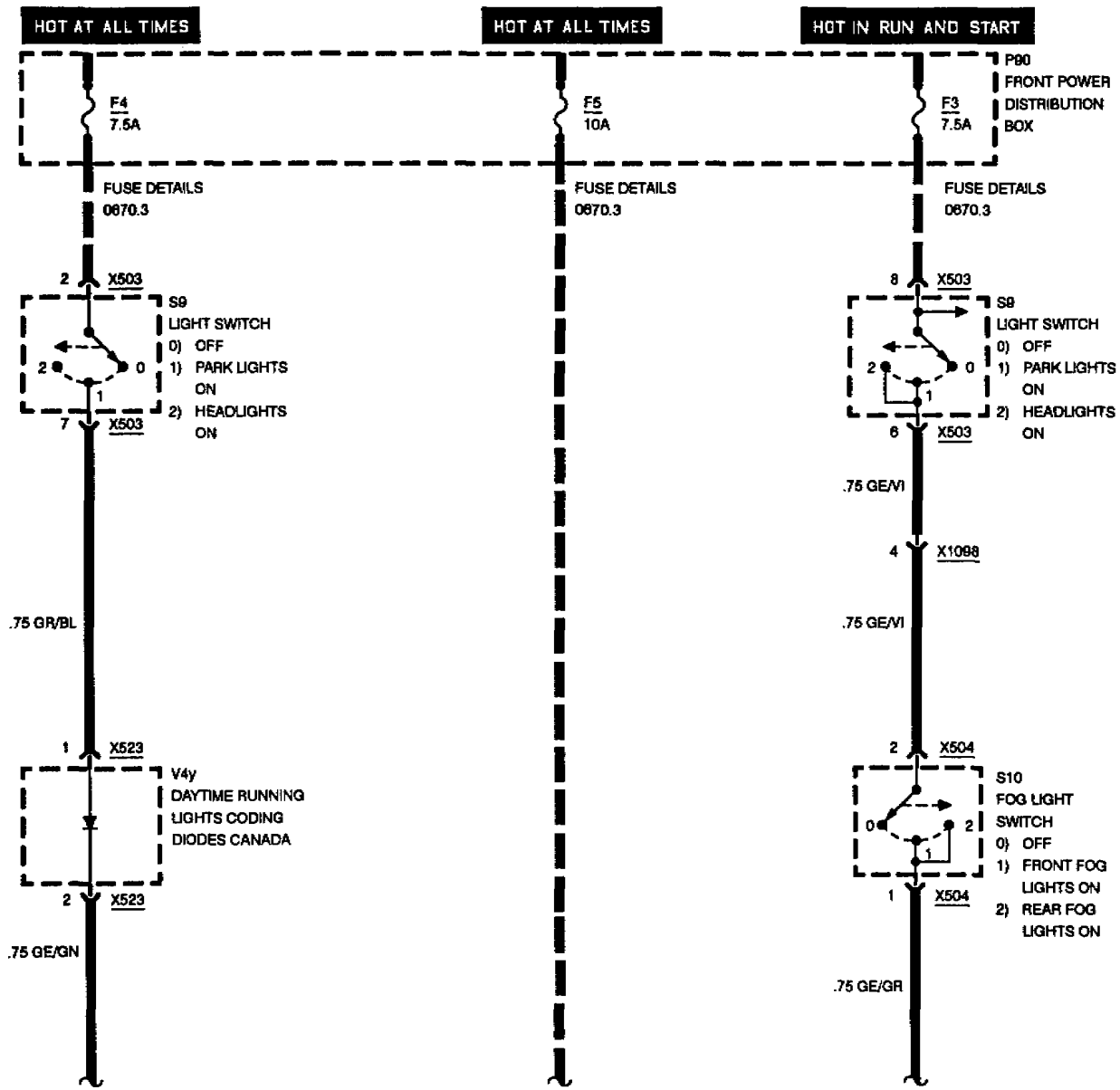
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CENTRAL BODY ELECTRONICS (ZKE)

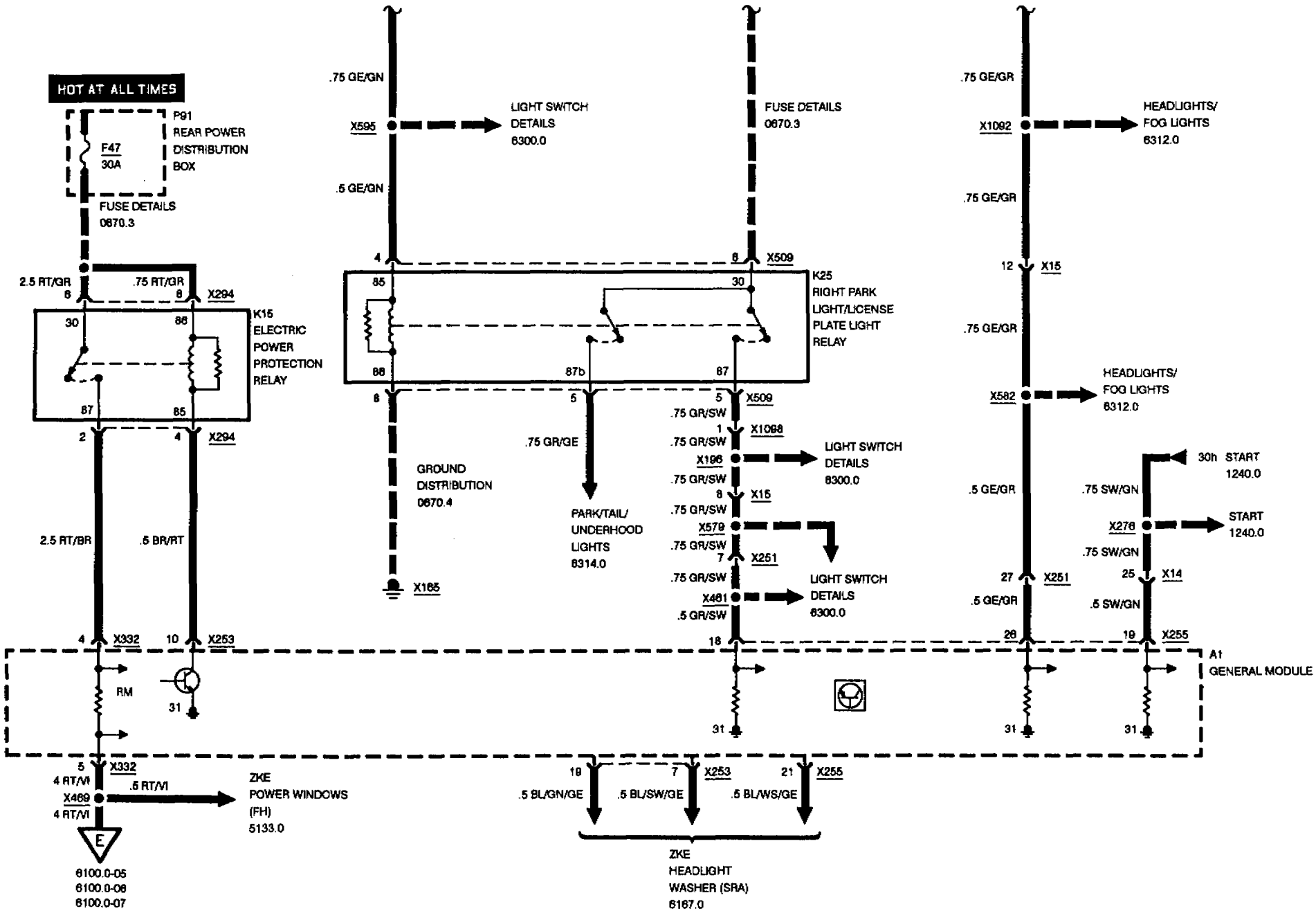
GENERAL MODULE



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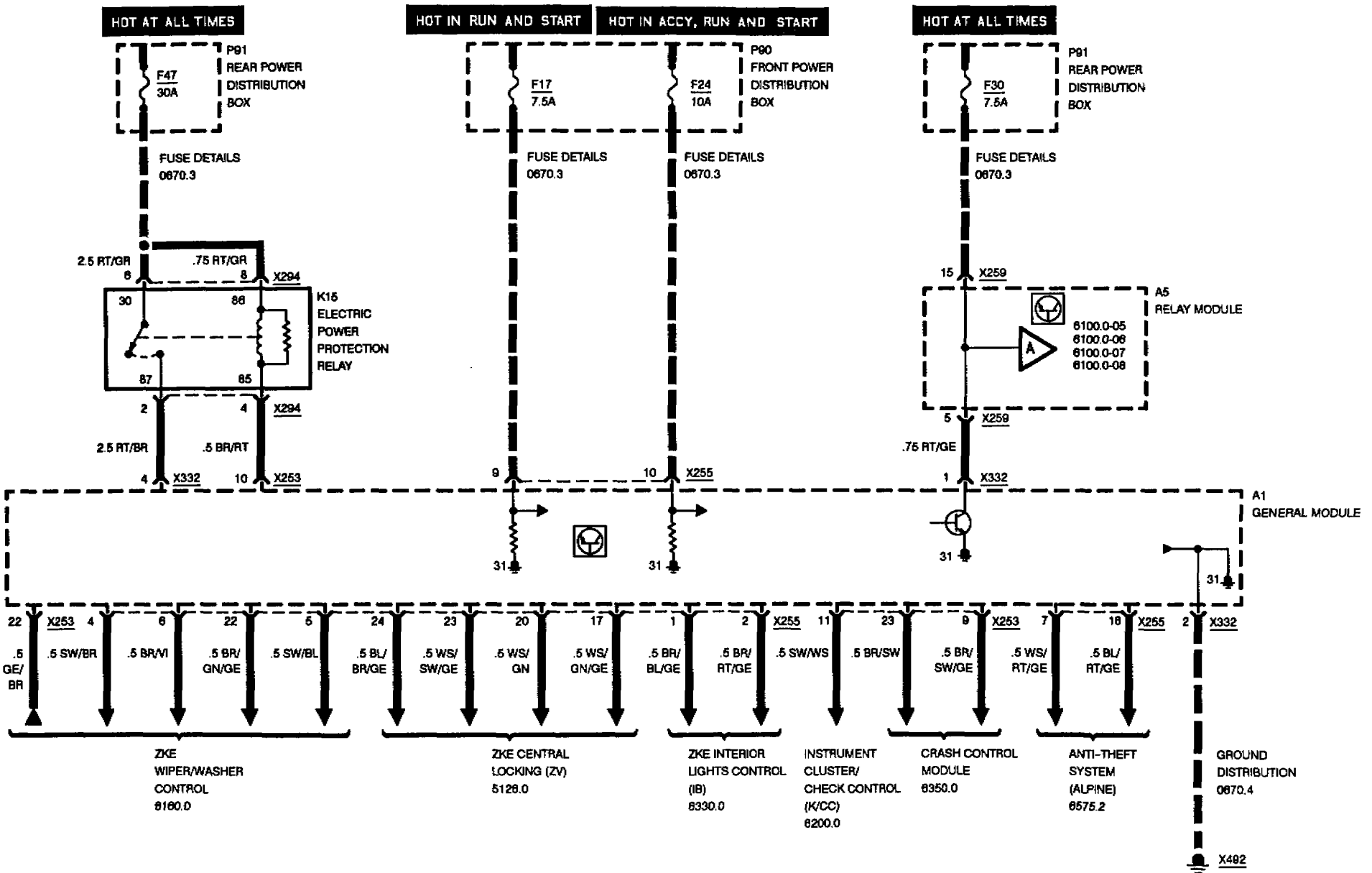
cardiagn.com


HOT AT ALL TIMES
P91
REAR POWER DISTRIBUTION BOX
F47
30A
FUSE DETAILS
0670.3
2.5 RT/GR
.75 RT/GR
X294
K15
ELECTRIC POWER PROTECTION RELAY
2.5 RT/BR
.5 BR/RT
X332
X253
RM
31
5
X332
4 RT/VI
X469
4 RT/VI
.5 RT/VI
ZKE
POWER WINDOWS (FH)
5133.0
6100.0-05
6100.0-06
6100.0-07
.75 GE/GN
X595
LIGHT SWITCH DETAILS
6300.0
.5 GE/GN
X165
GROUND DISTRIBUTION
0670.4
.75 GR/GE
PARK/TAIL/ UNDERHOOD LIGHTS
6314.0
FUSE DETAILS
0670.3
X509
K25
RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY
.75 GR/SW
X1098
X196
LIGHT SWITCH DETAILS
6300.0
X15
X579
X251
X461
LIGHT SWITCH DETAILS
6300.0
.5 GR/SW
.75 GE/GR
X1092
HEADLIGHTS/ FOG LIGHTS
6312.0
X582
HEADLIGHTS/ FOG LIGHTS
6312.0
.5 GE/GR
.5 GE/WS
30h START
1240.0
.75 SW/GN
X276
START
1240.0
X14
.5 SW/GN
X255
A1
GENERAL MODULE
.5 BL/GN/GE
.5 BL/SW/GE
.5 BL/WS/GE
ZKE
HEADLIGHT WASHER (SRA)
6167.0

carplan.com

CENTRAL BODY ELECTRONICS (ZKE)

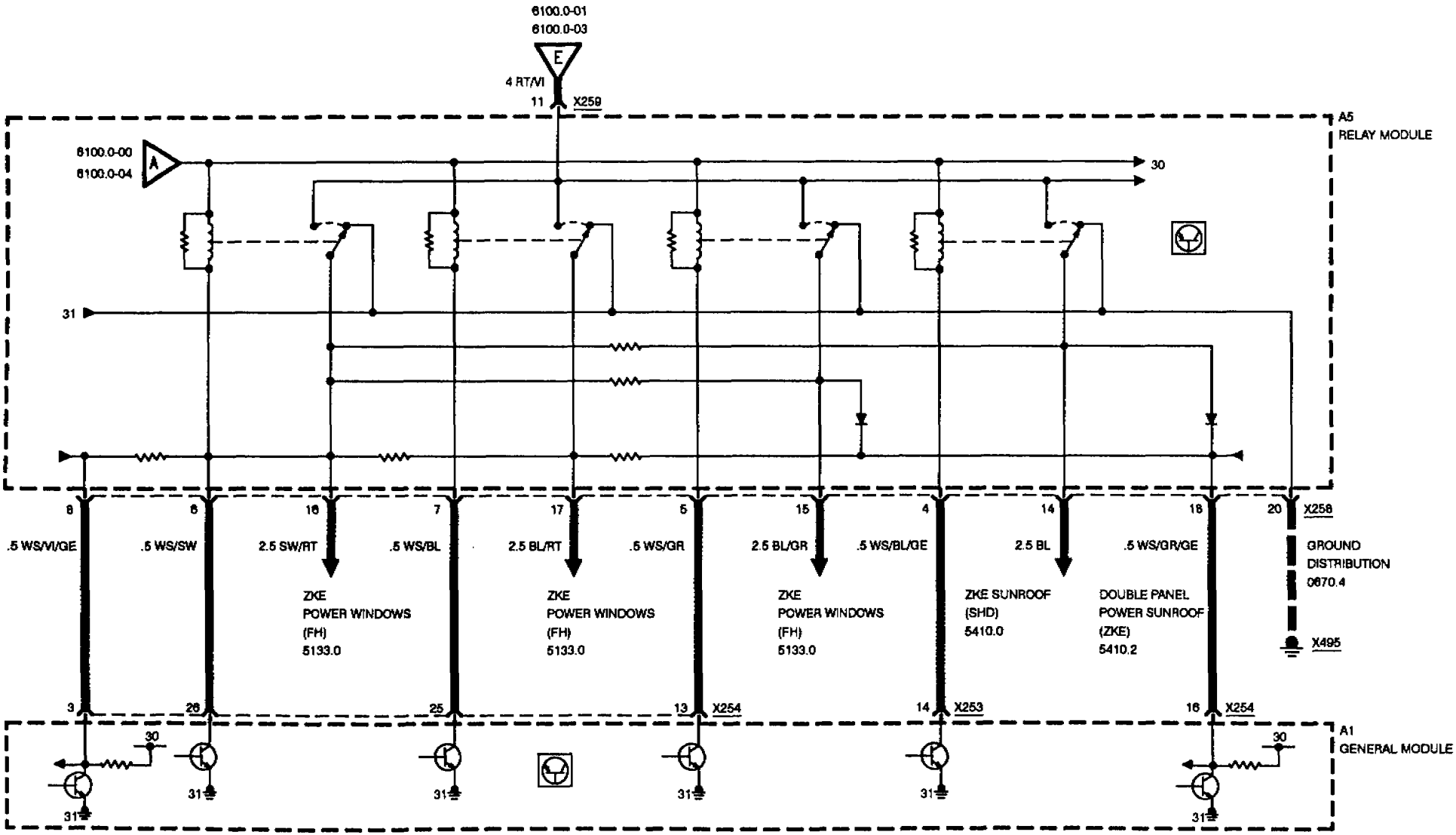
GENERAL MODULE



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CENTRAL BODY ELECTRONICS (ZKE)

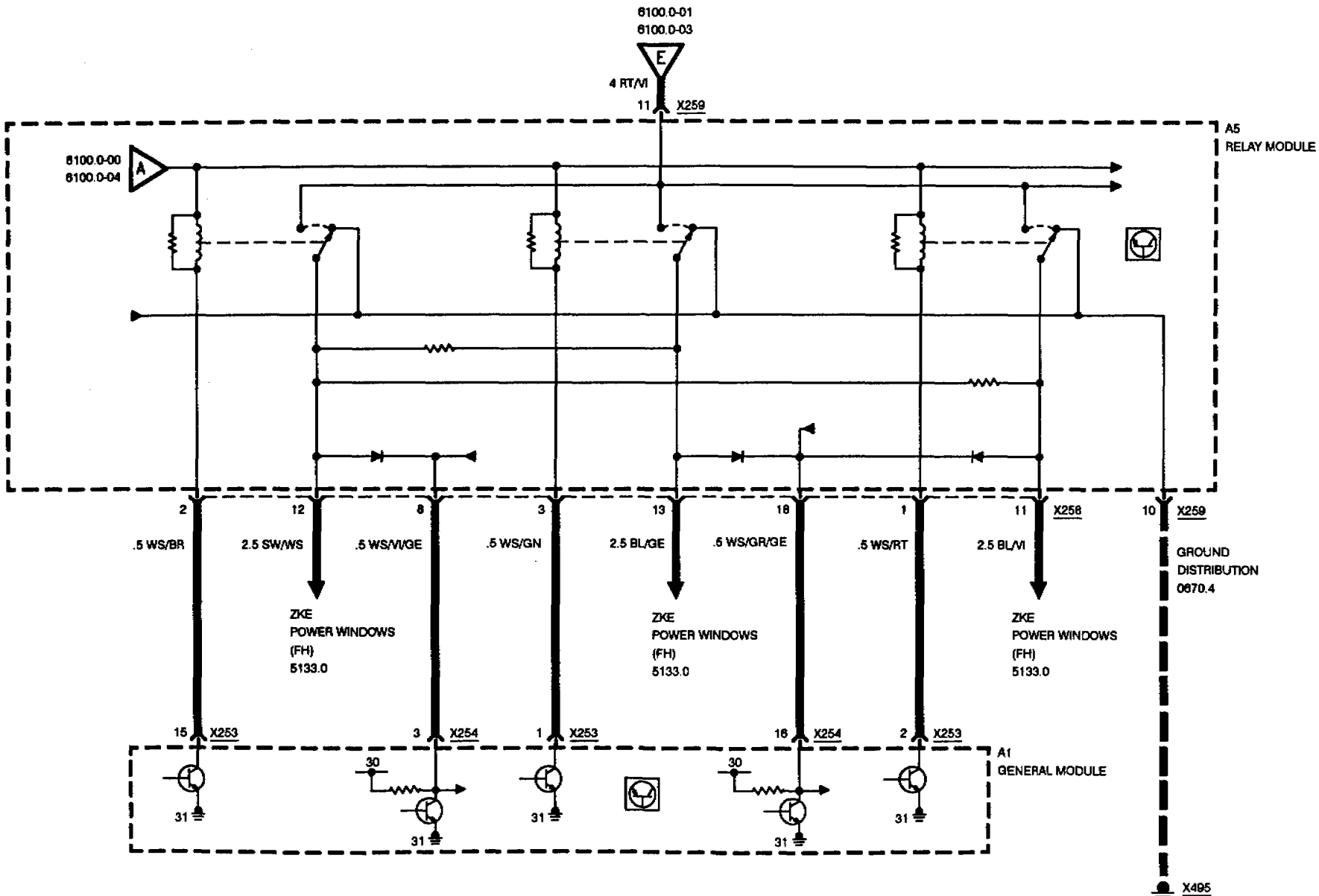
RELAY MODULE



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CENTRAL BODY ELECTRONICS (ZKE)

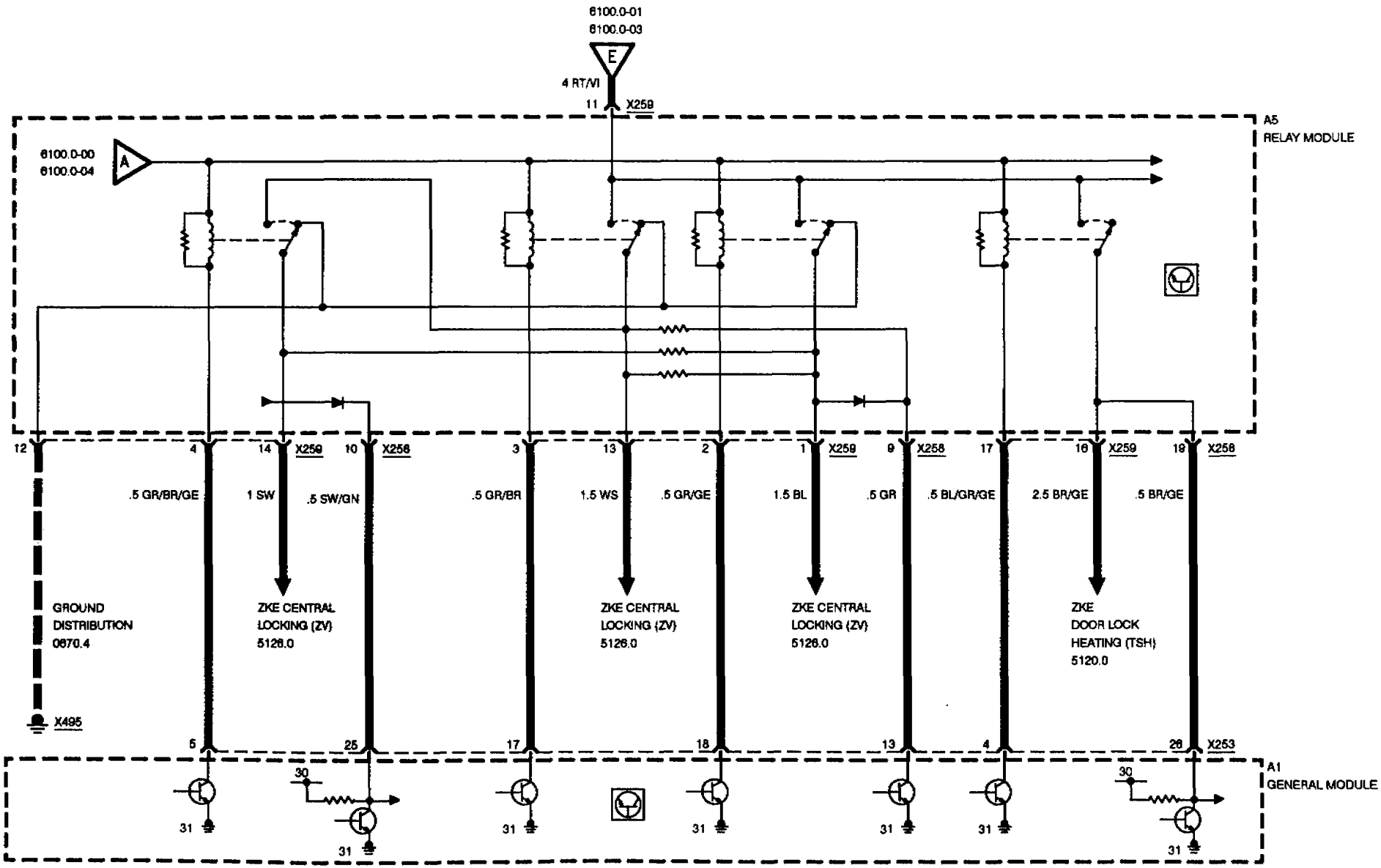
RELAY MODULE



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CENTRAL BODY ELECTRONICS (ZKE)

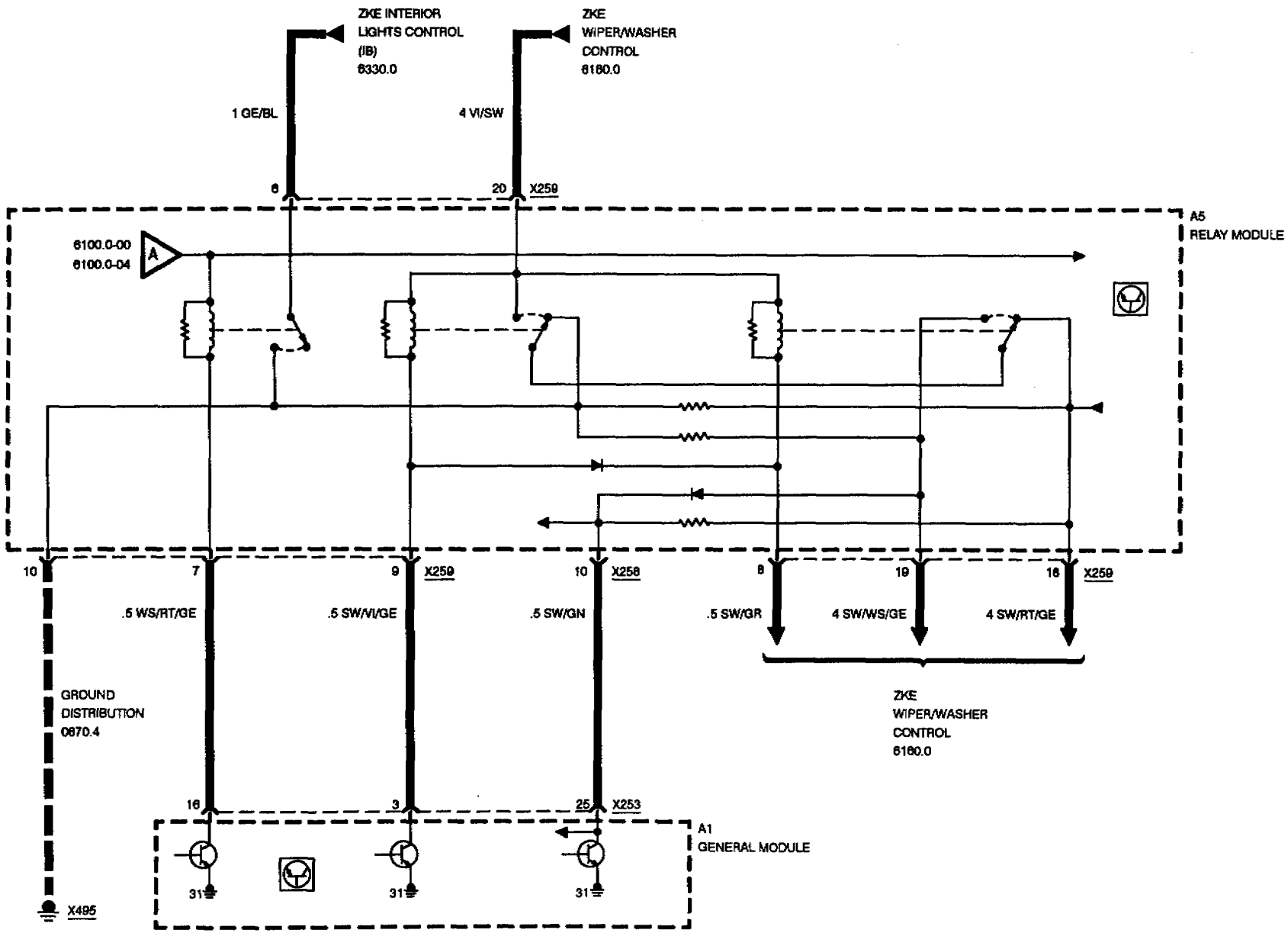
RELAY MODULE



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CENTRAL BODY ELECTRONICS (ZKE)

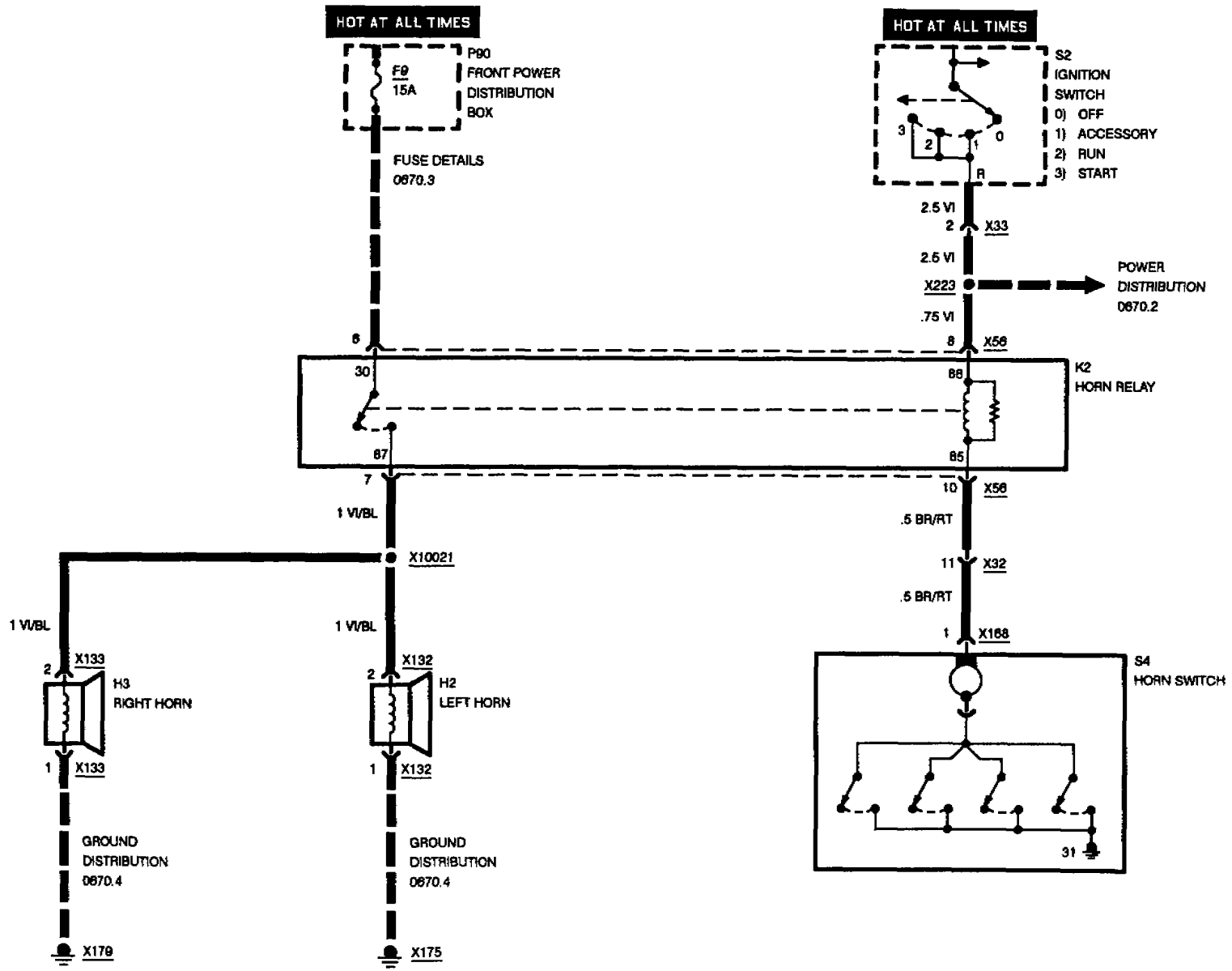
RELAY MODULE



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HORN

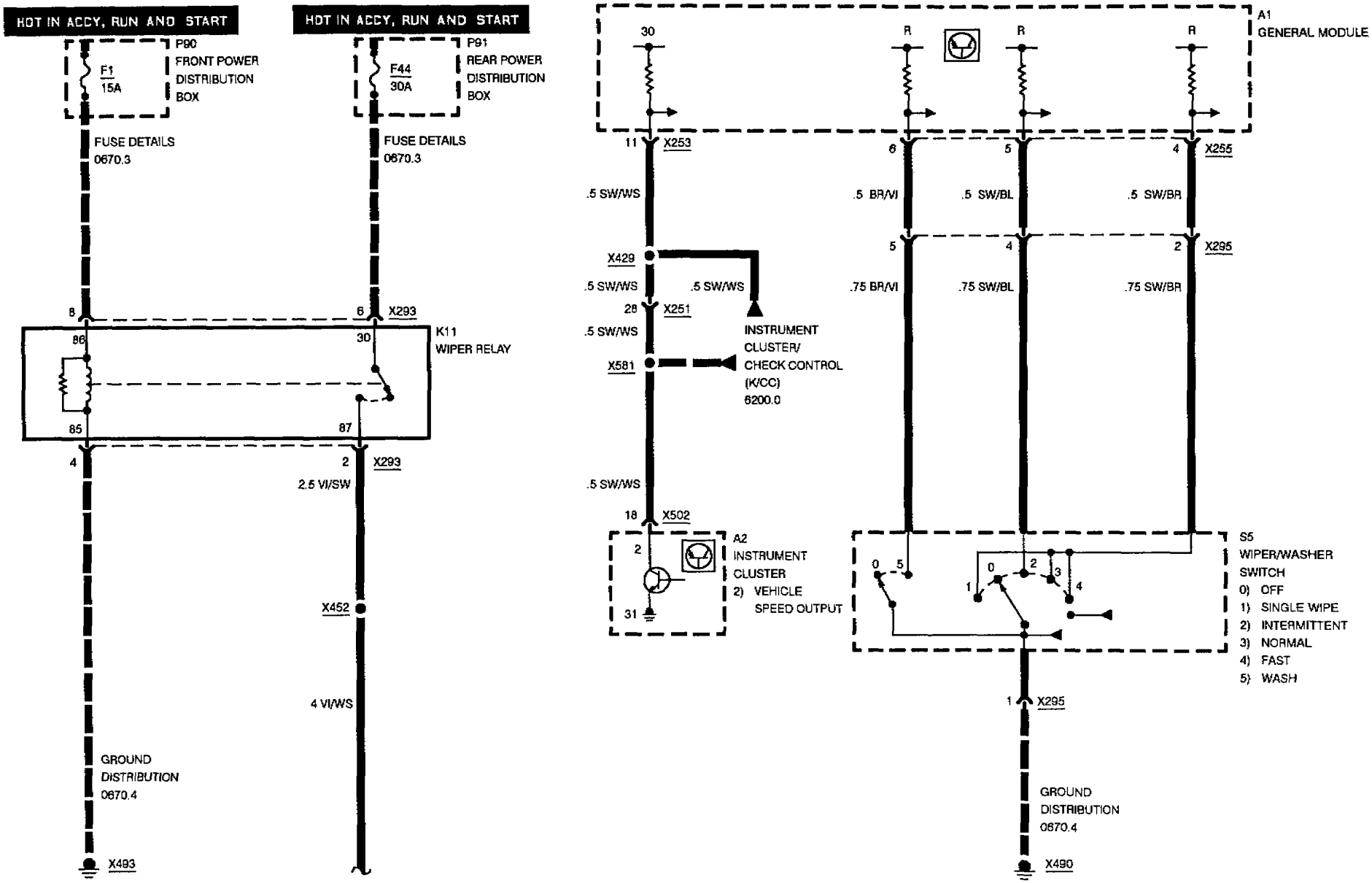


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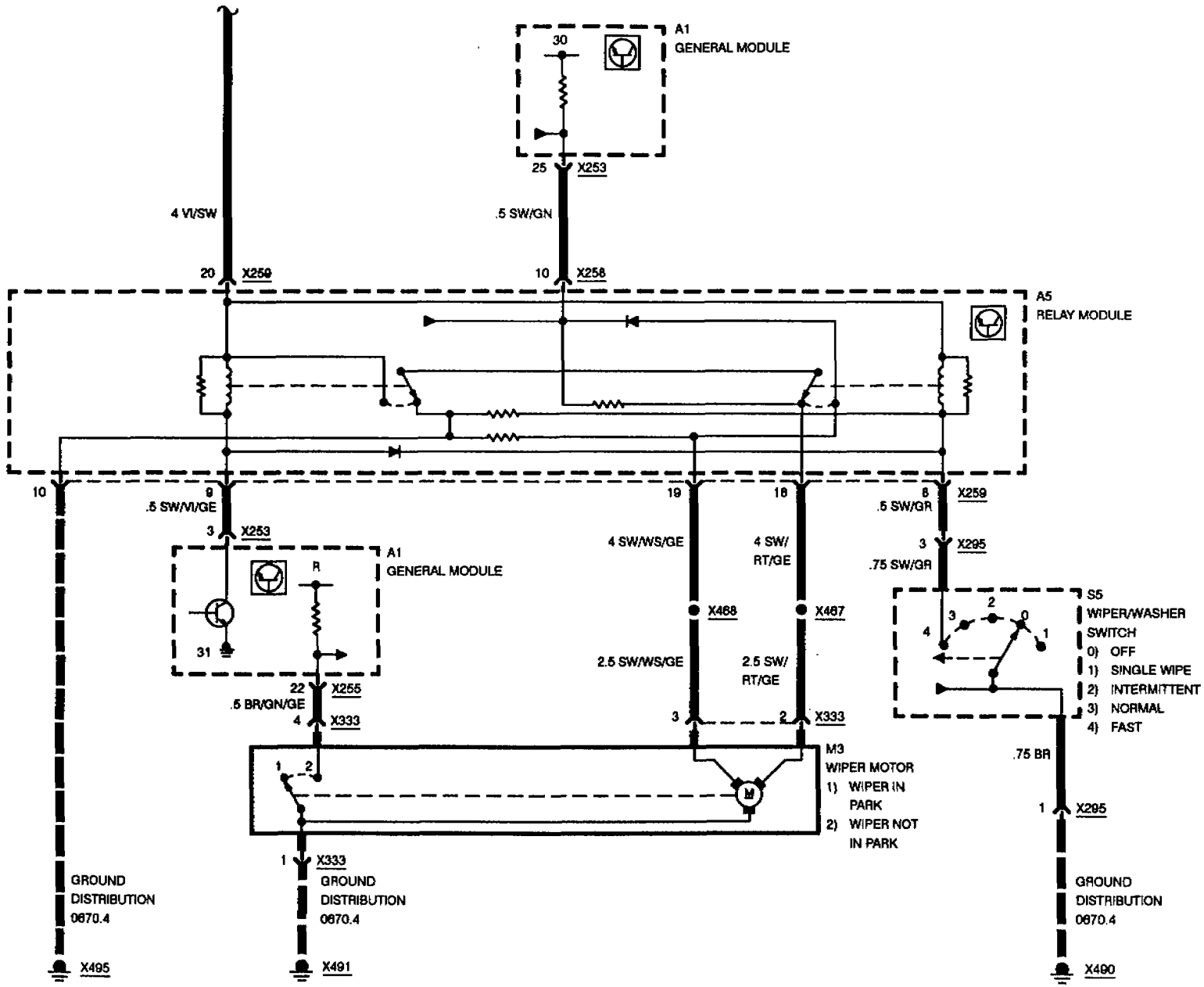
cardiagn.com

ZKE WIPER/WASHER CONTROL

INPUT DETAILS

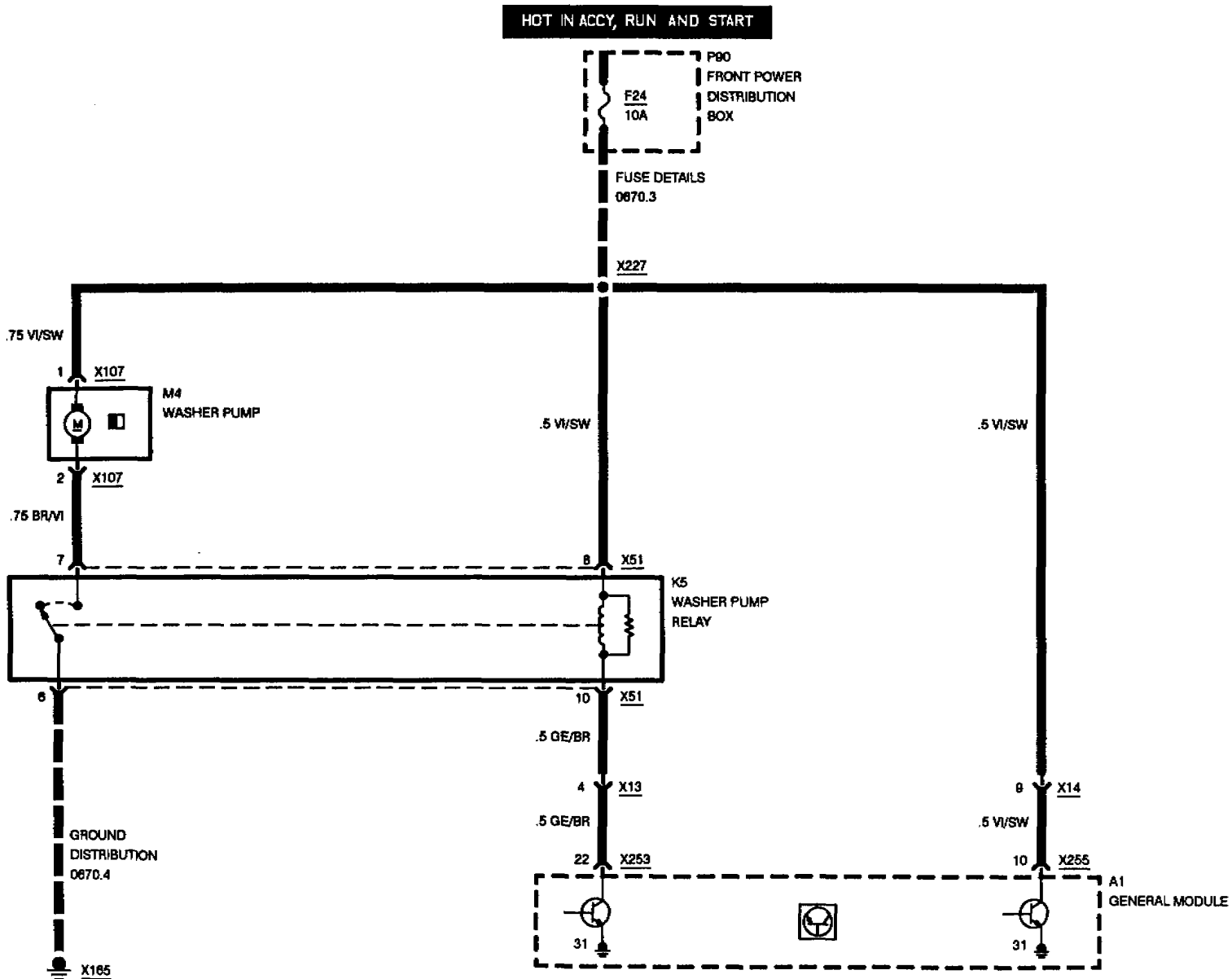


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ZKE WIPER/WASHER CONTROL

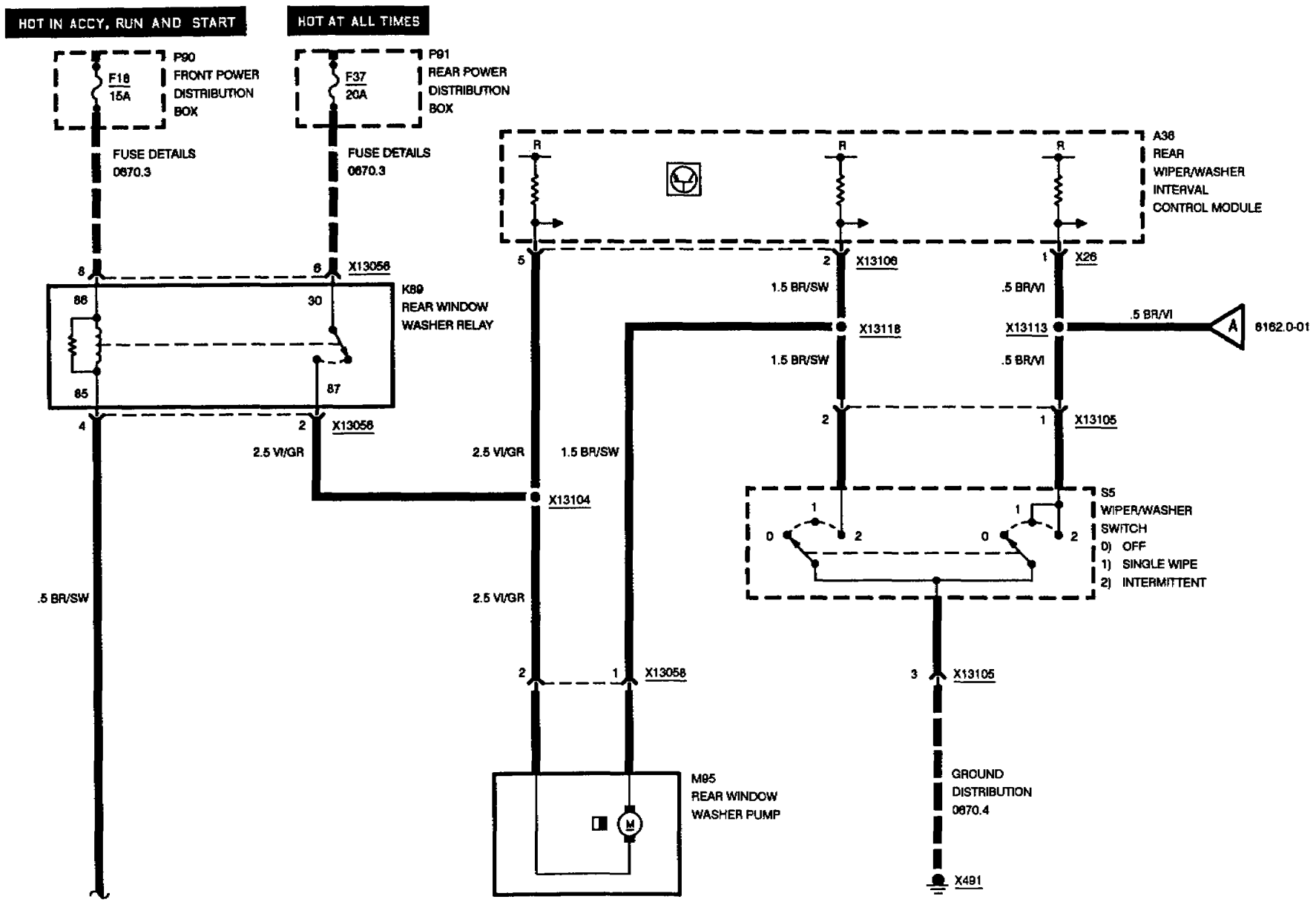


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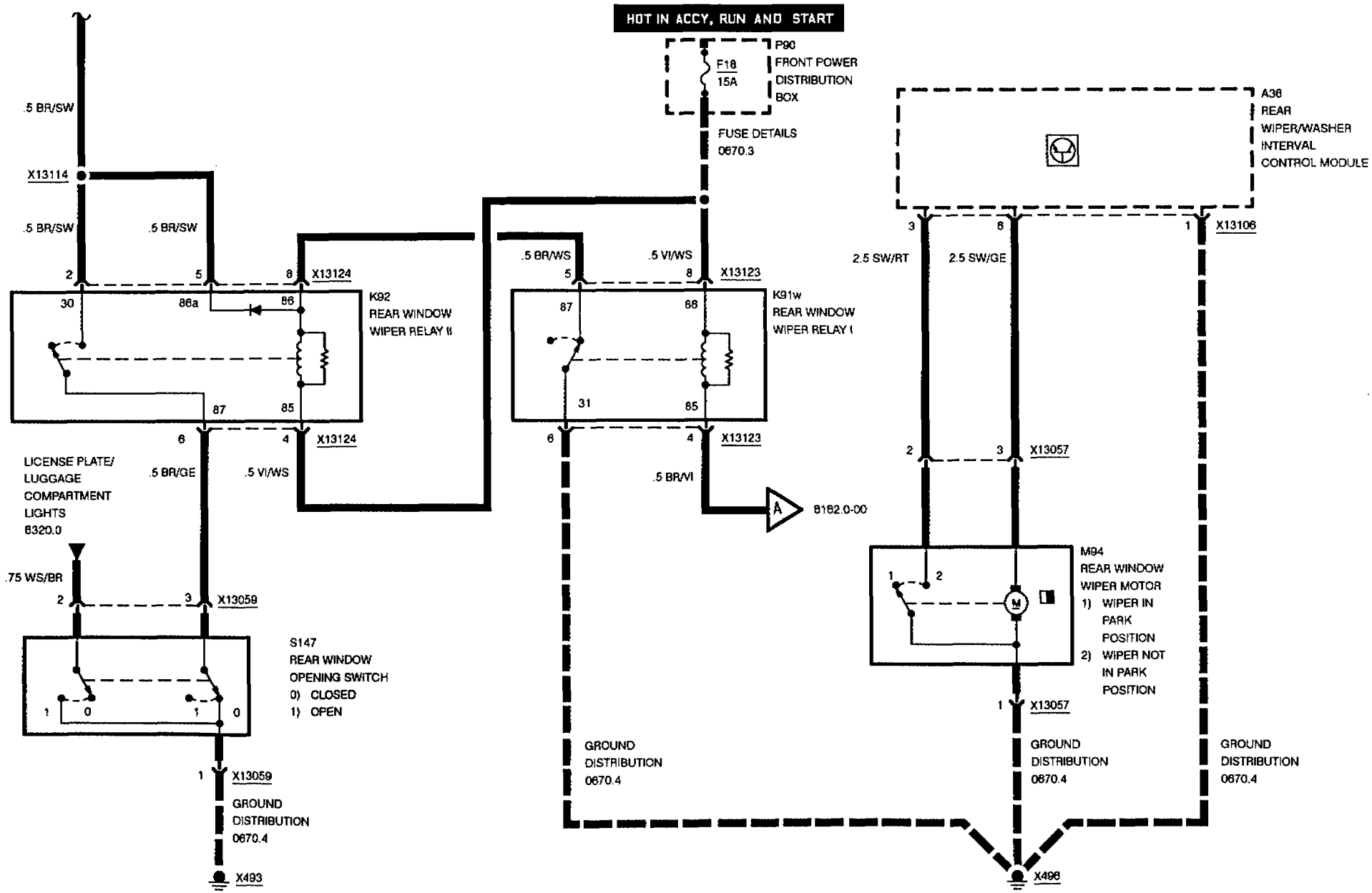
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REAR WINDOW WIPER/WASHER CONTROL

525it



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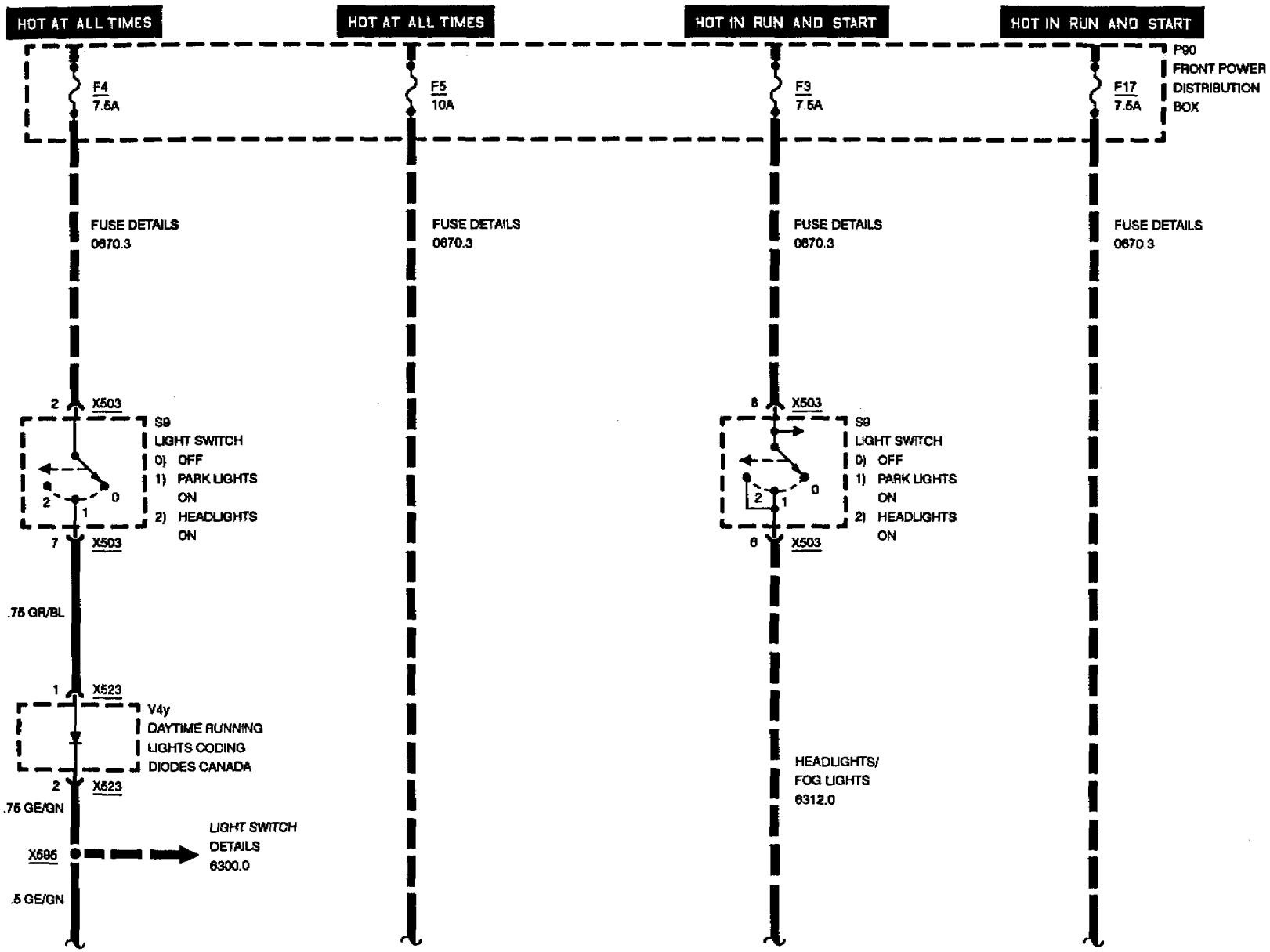

HOT IN ACCY, RUN AND START
P90
F18
15A
FRONT POWER DISTRIBUTION BOX
FUSE DETAILS 0670.3
A36
REAR WIPER/WASHER INTERVAL CONTROL MODULE
.5 BR/SW
X13114
.5 BR/SW
.5 BR/SW
2
5
8
X13124
K92
REAR WINDOW WIPER RELAY II
30
86a
86
87
85
6
4
X13124
.5 BR/WS
.5 VI/WS
5
8
X13123
K91w
REAR WINDOW WIPER RELAY I
87
86
31
85
6
4
X13123
.5 BR/VI
A
8162.0-00
3
6
1
X13106
2.5 SW/RT
2.5 SW/GE
2
3
X13057
LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS 6320.0
.5 BR/GE
.5 VI/WS
.75 WS/BR
2
3
X13059
S147
REAR WINDOW OPENING SWITCH
0) CLOSED
1) OPEN
1
0
1
0
1
X13059
GROUND DISTRIBUTION 0670.4
X493
M94
REAR WINDOW WIPER MOTOR
1) WIPER IN PARK POSITION
2) WIPER NOT IN PARK POSITION
1
2
M
1
X13057
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X496

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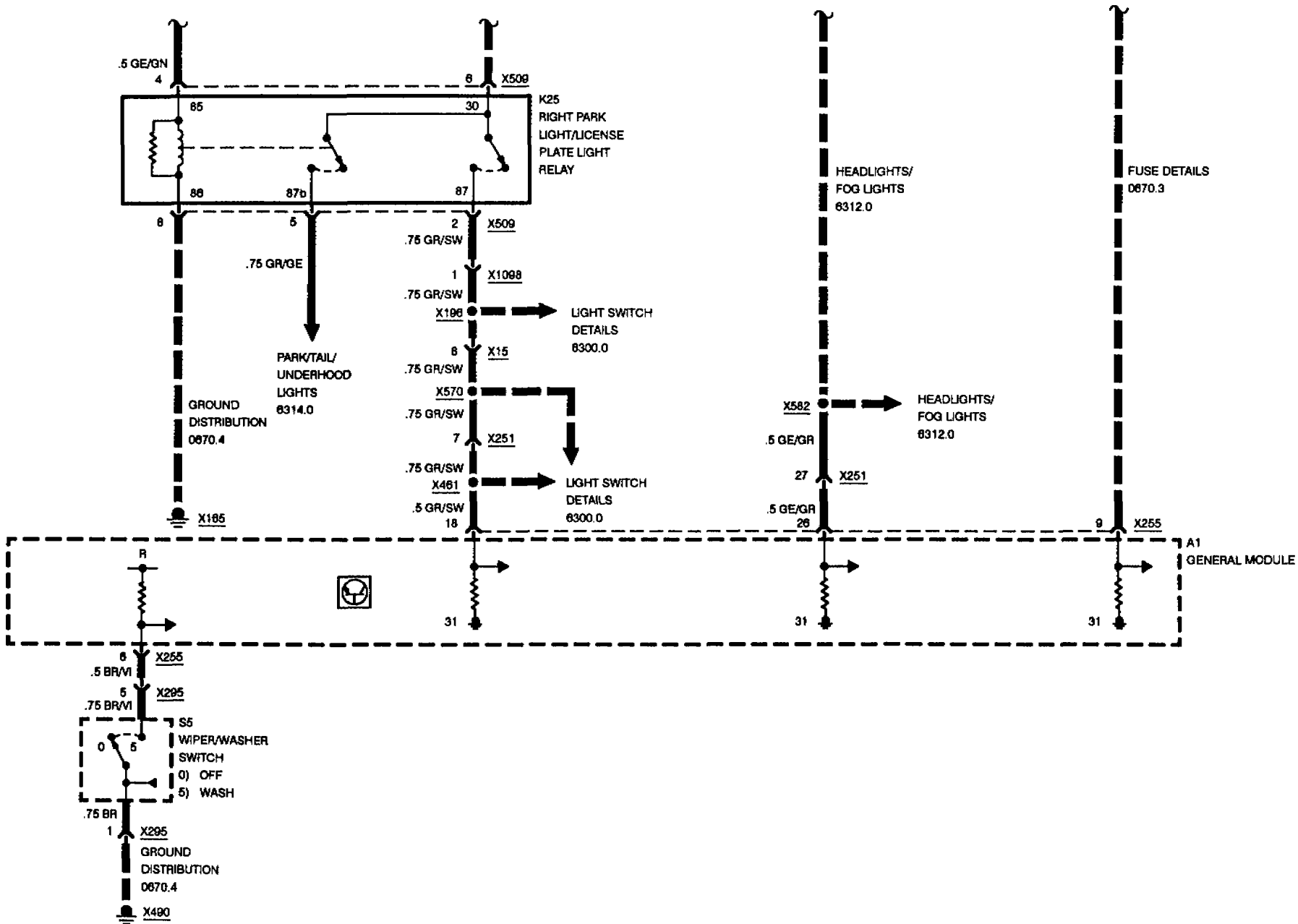
ZKE HEADLIGHT WASHER (SRA)

CDN

INPUT DETAILS



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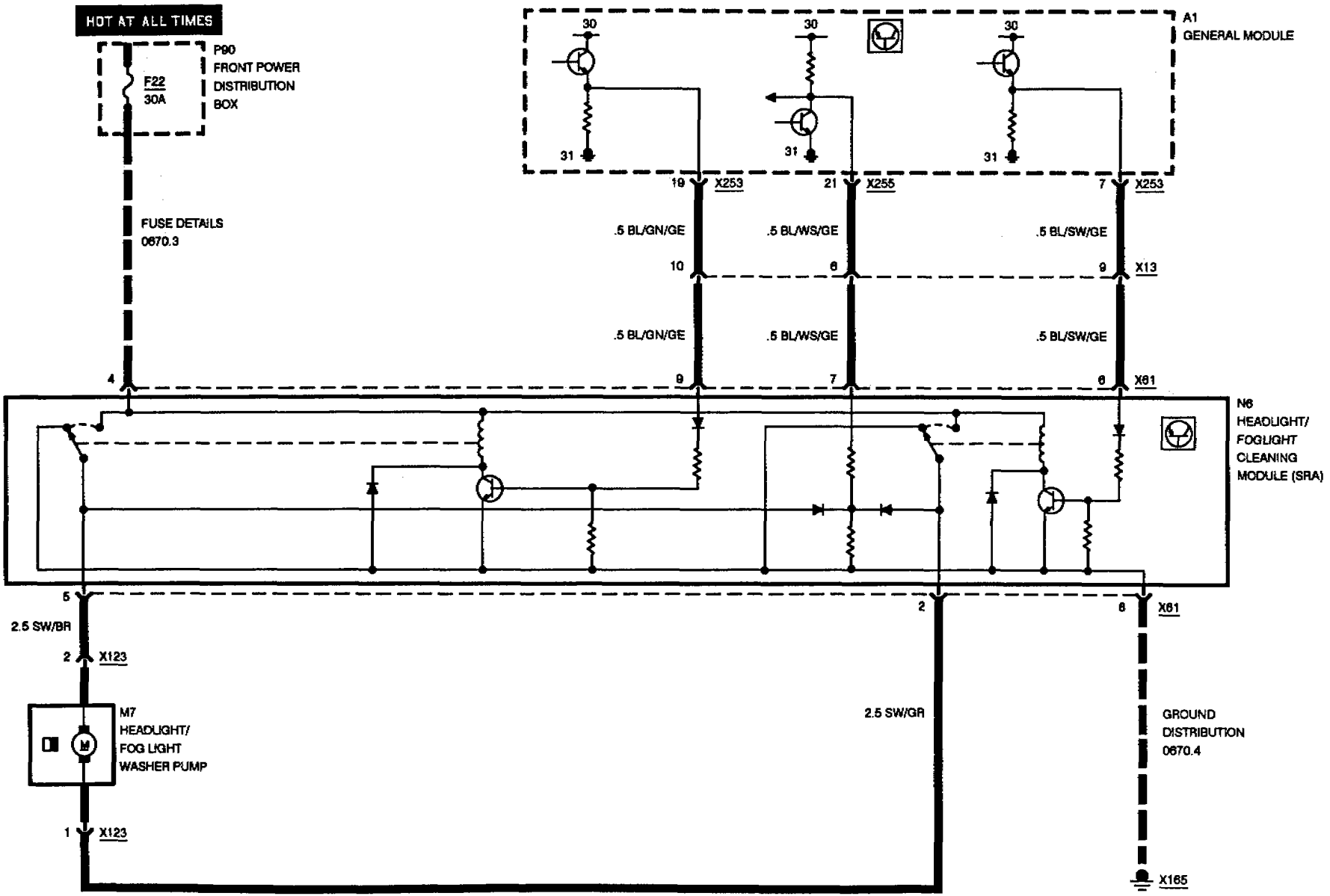

.5 GE/GN
4
6
X509
K25
RIGHT PARK
LIGHT/LICENSE
PLATE LIGHT
RELAY
85
30
86
87b
87
8
5
2
X509
.75 GR/SW
.75 GR/GE
1
X1098
.75 GR/SW
X196
LIGHT SWITCH
DETAILS
6300.0
8
X15
.75 GR/SW
X570
.75 GR/SW
7
X251
.75 GR/SW
X461
LIGHT SWITCH
DETAILS
6300.0
.5 GR/SW
18
PARK/TAIL/
UNDERHOOD
LIGHTS
6314.0
GROUND
DISTRIBUTION
0670.4
X185
HEADLIGHTS/
FOG LIGHTS
6312.0
X582
HEADLIGHTS/
FOG LIGHTS
6312.0
.5 GE/GR
27
X251
.5 GE/GR
26
FUSE DETAILS
0670.3
9
X255
A1
GENERAL MODULE
R
31
31
31
6
X255
.5 BR/VI
5
X295
.75 BR/VI
S5
WIPER/WASHER
SWITCH
0) OFF
5) WASH
0
5
.75 BR
1
X295
GROUND
DISTRIBUTION
0670.4
X490

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ZKE HEADLIGHT WASHER (SRA)

CDN

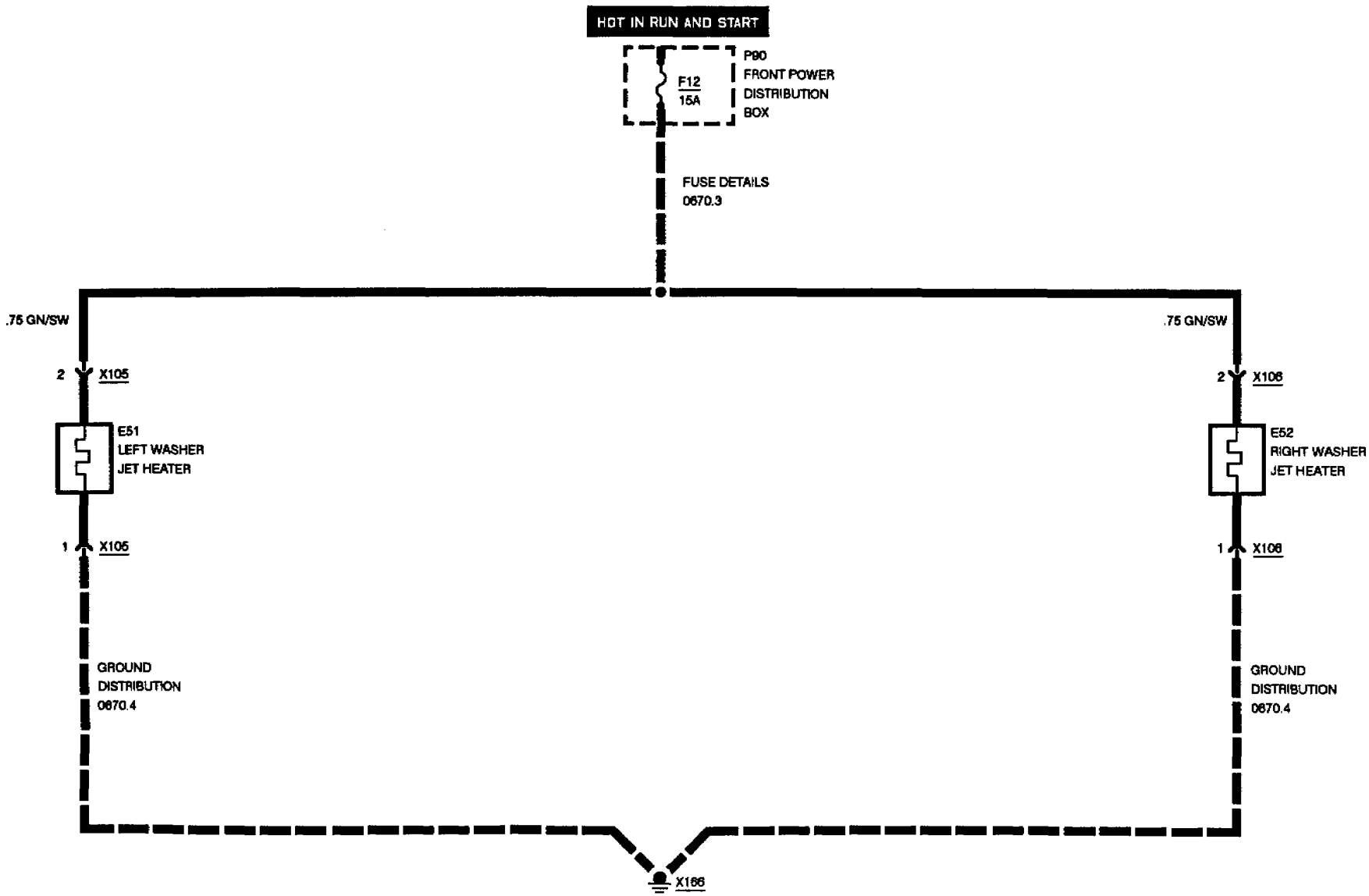
OUTPUT DETAILS



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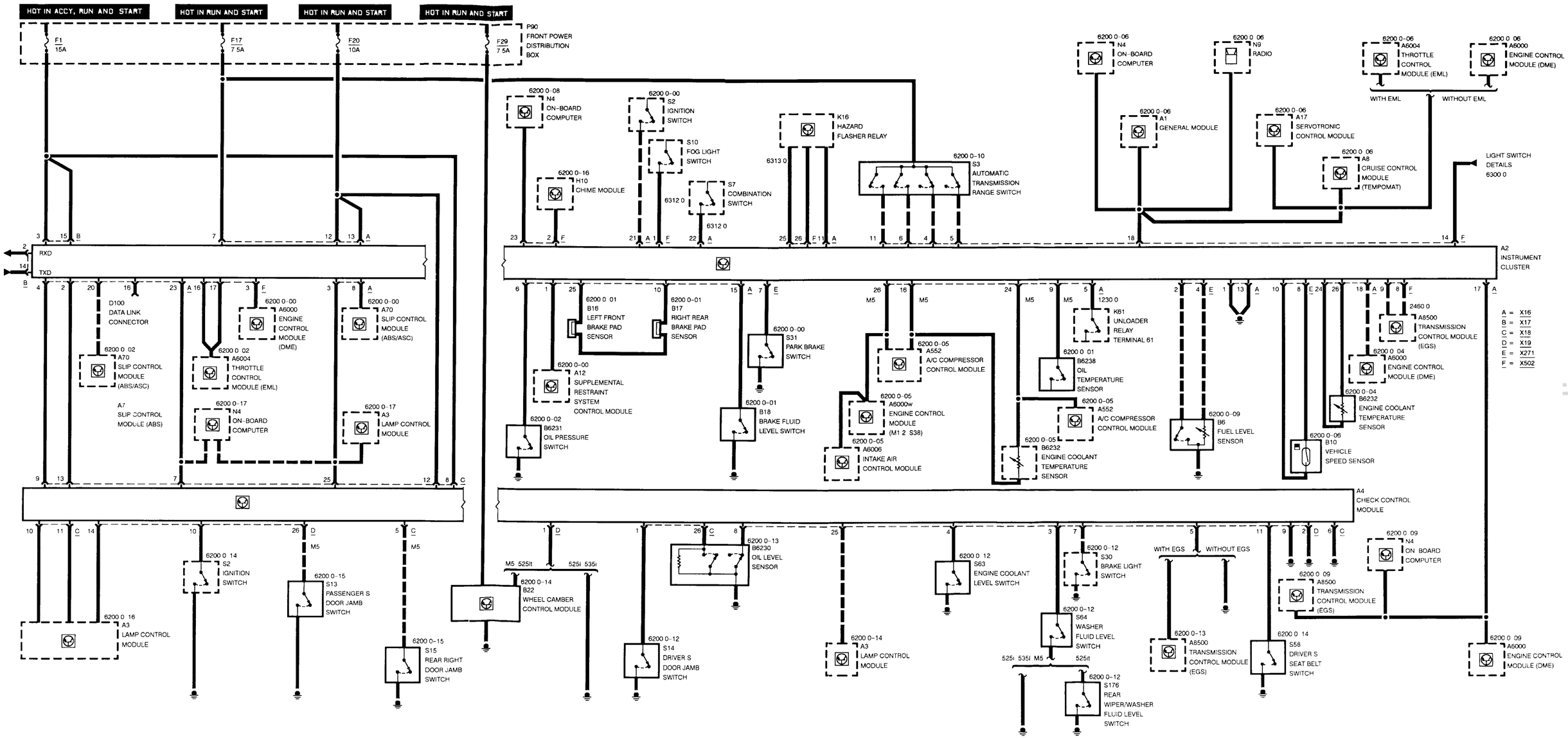
cardiagn.com

WINDSHIELD WASHER JET HEATERS

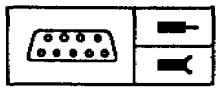


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11/92 — 6200 0 — 1992
11/92 — 6200 0 — 1992



cardiagn.com



Pin Assignments

A = X16 26 Pins, beige
B = X17 6 Pins, brown
C = X18 26 Pins, blue
D = X19 26 Pins, green
E = X271 12 Pins, gray
F = X502 26 Pins, white

X16

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Airbag indicator control	Diagnostic module (SRS)	Ground		
2	E	Data line	Check control module			
3	A	Data line	Check control module, Lamp control module, On-board computer and radio			
4	E	Data line	Check control module			
5	E	Charge indicator control	Alternator			
6	E	Oil pressure indicator control	Oil pressure switch	Ground		
7	E	Terminal 15 power	Fuse			
8	E	ASC indicator control	ABS/ASC control module	Ground		
9	E	Oil temperature signal (M5)	Oil temperature sensor			
10	M	Ground, brake pad signal	Brake pad sensor			
11	E	Trailer turn signal indicator	Hazard flasher relay			

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
12	E	Terminal 30 power	Fuse	approx. 12 V		
13	E	Terminal 30 power	Fuse	approx. 12 V		
14		Not used				
15	E	Brake fluid warning	Brake fluid level switch			
16	A	SIA reset	Diagnostic connector			
17	E	ti signal for fuel economy	DME control unit			
18	E	TD signal for tachometer	DME control unit			
19		Not used				
20	E	ABS indicator control	ABS/ASC control unit			
21	E	Airbag indicator power	Terminal R, ignition switch			
22	E	High beam indicator power	Combination switch			
23	A	Data line	Check control module, On-board computer and radio			
24	M	Temperature sensor ground	Ground			
25	E	Brake pad warning	Brake pad sensor			
26	E	Temperature gauge signal	Coolant temperature sensor			

X17

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	M	Ground	Ground	Ground		
2	E/A	Diagnosis (RxD)	Diagnostic connector			
3	E	Terminal R power	Fuse	approx. 12 V		
4		Cluster programming	NV-RAM			
5		Cluster programming	NV-RAM			

carmanuals.com

		Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
		Cluster programming	NV-RAM			
7		Cluster programming	NV-RAM			
8		Cluster programming	NV-RAM			
9		Cluster programming	NV-RAM			
10		Cluster programming	NV-RAM			
11		Cluster programming	NV-RAM			
12		Cluster programming	NV-RAM			
13	M	Ground	Ground	Ground		
14	E	Diagnosis (TxD)	Diagnostic connection			
15	E	Terminal R power	Fuse	approx. 12 V		
16		Cluster programming	NV-RAM			
17		Cluster programming	NV-RAM			
18		Cluster programming	NV-RAM			
19		Cluster programming	NV-RAM			
20		Cluster programming	NV-RAM			
21		Cluster programming	NV-RAM			
22		Cluster programming	NV-RAM			
23		Cluster programming	NV-RAM			
24		Cluster programming	NV-RAM			

X18

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Door open signal	Drivers door jamb switch	Ground		
2		Not used				

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INSTRUMENT CLUSTER/CHECK CONTROL (K/CC)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
3		Not used				
4		Not used				
5	E	Door open signal (M5)	Rear door jamb switches	Ground		
6	M	Module ground	Ground	Ground		
7		Data line	Instrument cluster, on-board computer and radio			
8	E	Terminal 30 power	Fuse	approx. 12 V		
9	A	Data line	Instrument cluster			
10	E	Data line	Lamp control module			
11	E	Data line	Lamp control module			
12	E	Terminal R power	Fuse			
13	A	Data line	Instrument cluster			
14		Not used				
15		Not used				
16		Not used				
17		Not used				
18		Not used				
19		Not used				
20		Not used				
21		Not used				
22		Not used				
23		Not used				
24		Not used				

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
25	E	Data line	Instrument cluster, on-board computer, lamp control module and radio			
26	E	Oil level signal	Oil level sensor			

X19

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	M E	Ground, 525i/535i	Ground Wheel camber control unit	Ground		
2	M	Ground, control unit	Ground	Ground		
3	E	Washer fluid level signal	Washer fluid level switch	Ground		
4	E	Coolant level signal	Coolant level switch	Ground		
5	M E	Ground, without EGS EGS fault signal	Ground EGS control unit	Ground		
6		Not used				
7	E	Brake pedal status	Brake light switch	Ground		
8	E	Oil level signal	Oil level sensor	Ground		
9	M	Ground, control unit	Ground	Ground		
10	E	Ignition switch status	Ignition switch	Ground		
11	E	Seat belt status	Drivers seat belt switch	Ground		
12		Not used				
13		Not used				
14	E	Data line	Lamp control module			
15		Not used				
16		Not used				

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INSTRUMENT CLUSTER/CHECK CONTROL (K/CC)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
17		Not used				
18		Not used				
19		Lift gate open warning light	Lift gate open switch			
20		Not used				
21		Not used				
22		Not used				
23		Not used				
24		Not used				
25		Light switch ON signal	Lamp control module			
26	E	Door open signal (M5)	Passengers door jamb switch	Ground		

X271

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1		Not used				
2	E	Fuel level warning signal	Fuel tank sensor	Ground		
3		Not used				
4	E	Fuel level signal	Fuel tank sensor			
5		Not used				
6		Not used				
7	E	Park brake indicator control	Park brake switch	Ground		
8	E	Vehicle speed input (+)	Vehicle speed sensor			
9		Not used				
10	E	Vehicle speed input (-)	Vehicle speed sensor			

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
11		Not used				
12		Not used				

X502

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Fog light indicator control	Lamp control module	approx. 12 V		
2	A	Sound tone signal	Chime module			
3	E	Check engine indicator control	DME control unit	Ground		
4	E	Gear range signal	Transmission range switch (L2)	approx. 12 V		
5	E	Gear range signal	Transmission range switch (L1)	approx. 12 V		
6	E	Gear range signal	Transmission range switch (L3)	approx. 12 V		
7		Not used				
8	E	Transmission mode signal	EGS control unit			
9	E	Transmission mode signal	EGS control unit			
10		Not used				
11	E	Gear range signal	Transmission range switch (L4)	approx. 12 V		
12		Not used				
13		Not used				
14	E	Instrument illumination power	Dimmer			
15		Not used				
16	E	EML fault indicator control	EML control unit			

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INSTRUMENT CLUSTER/CHECK CONTROL (K/CC)

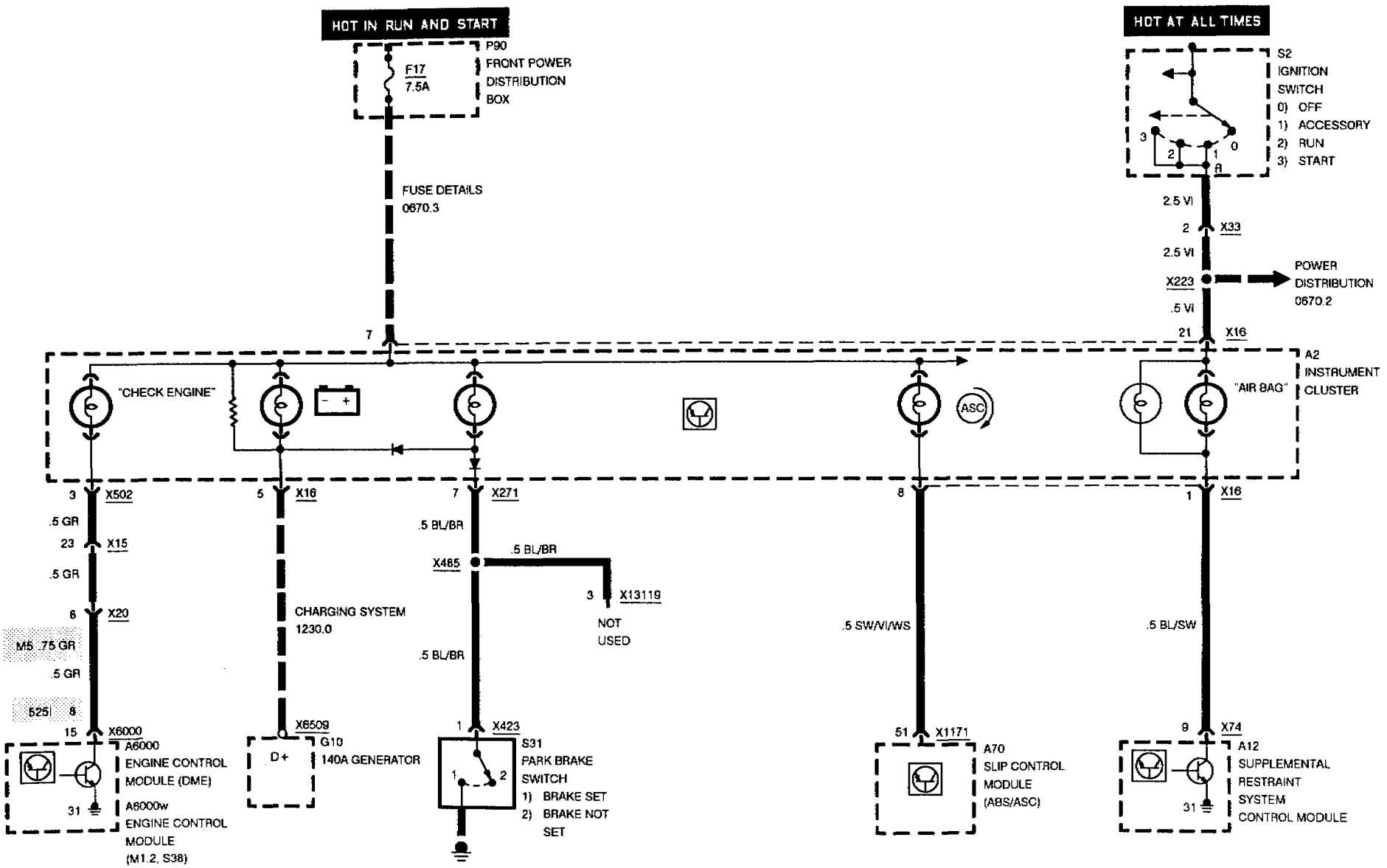
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
17	E	EML fault indicator control	EML control unit			
18	A	Vehicle speed signal	On-board computer, general module, radio, IHKR control unit, servotronic control unit, EML control unit, DME control unit, cruise control module			
19		Not used				
20		Not used				
21		Not used				
22		Not used				
23	A	Check control reset signal	On-board computer			
24		Not used				
25	E	Left turn indicator control	Hazard flasher relay			
26	E	Right turn indicator control	Hazard flasher relay			

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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

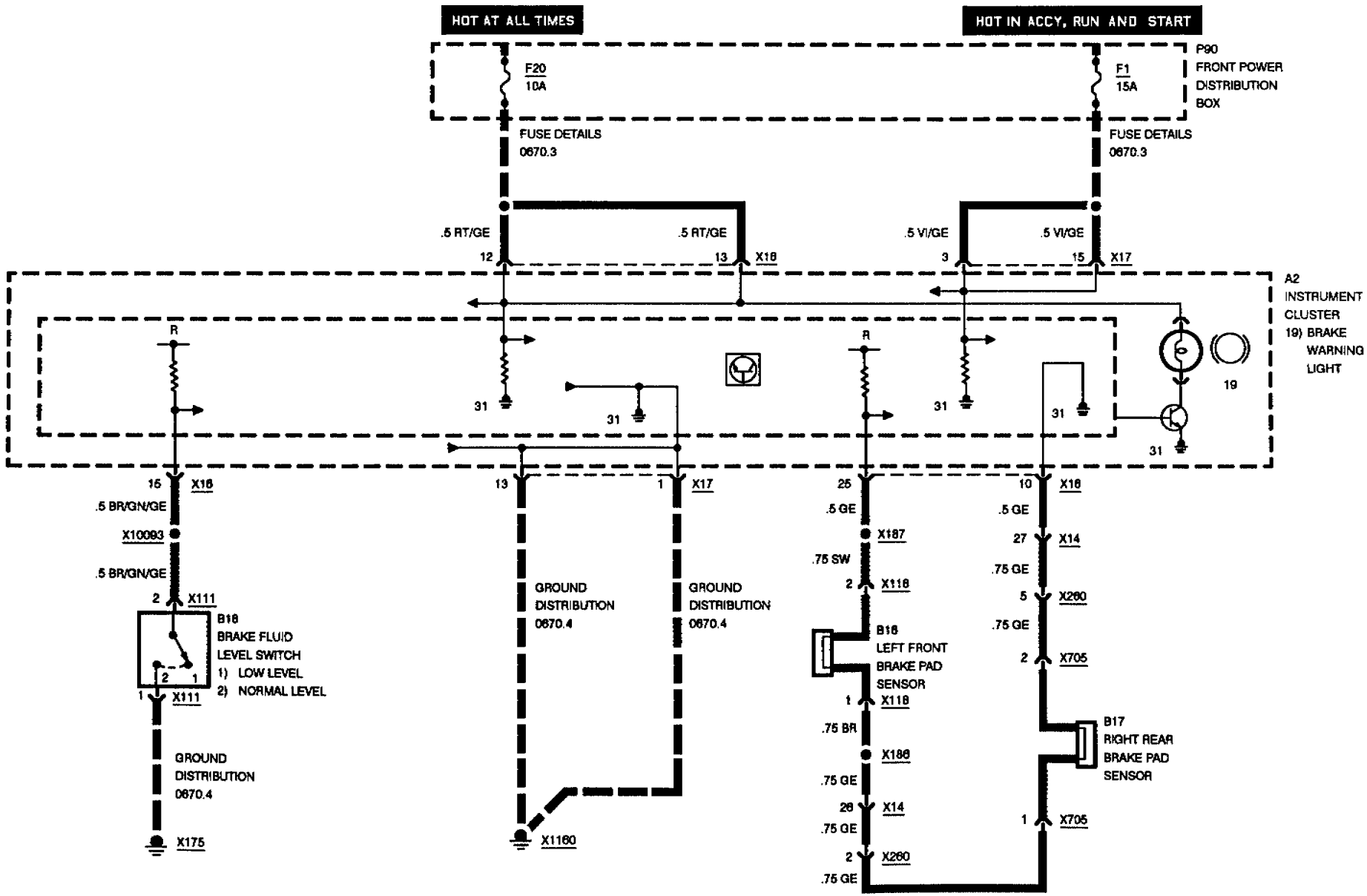
INDICATORS



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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

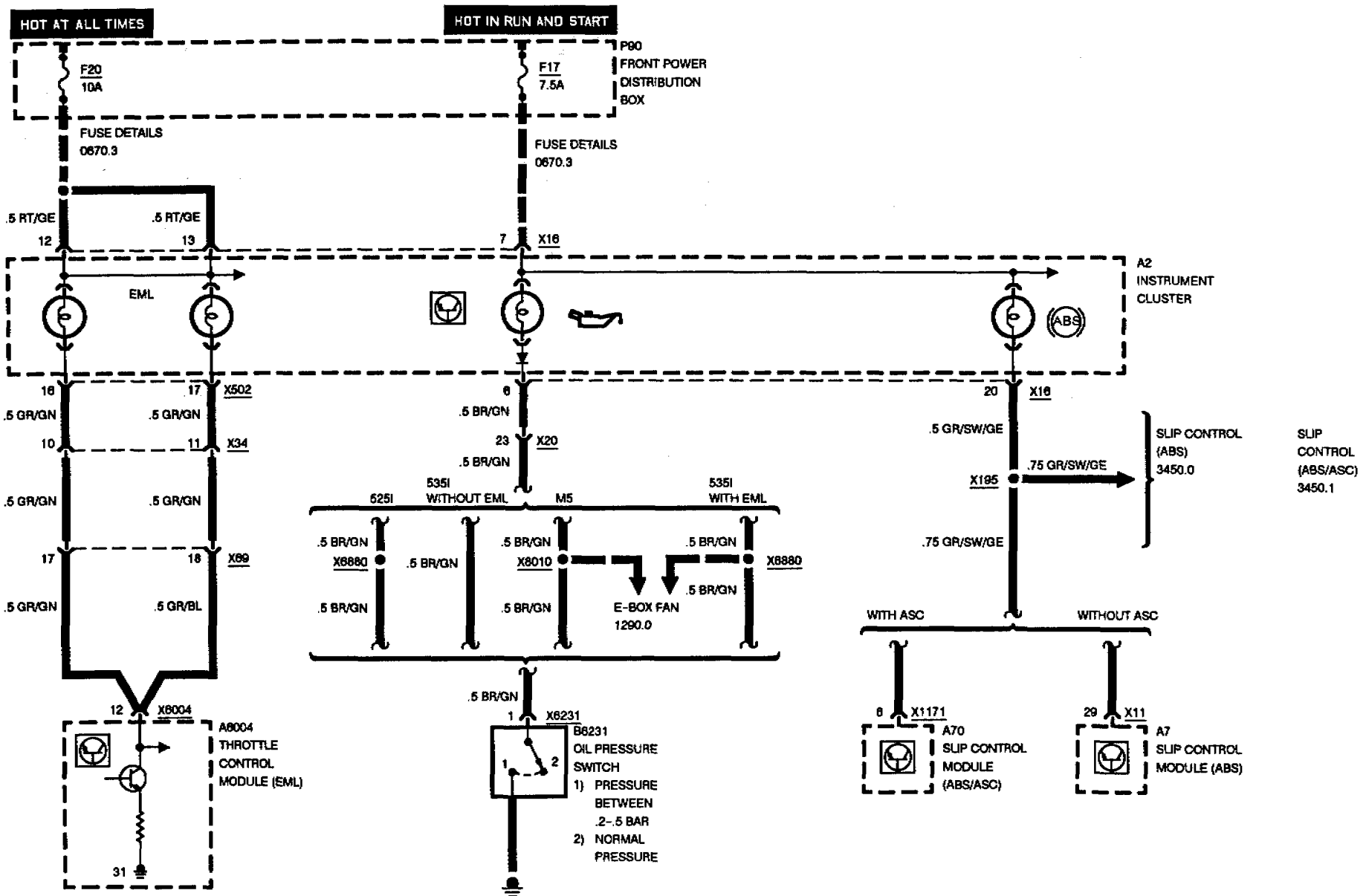
INDICATORS



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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

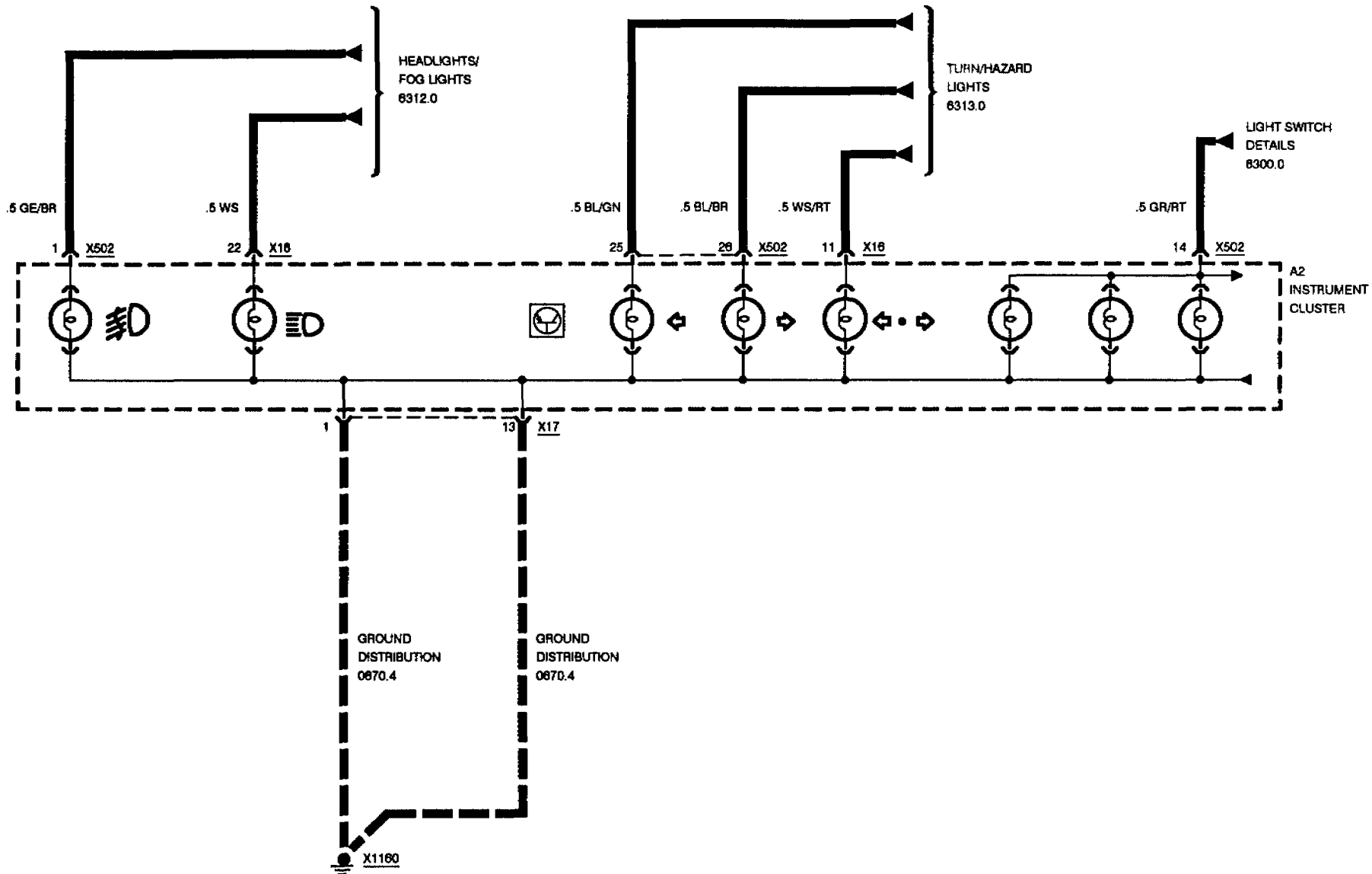
INDICATORS



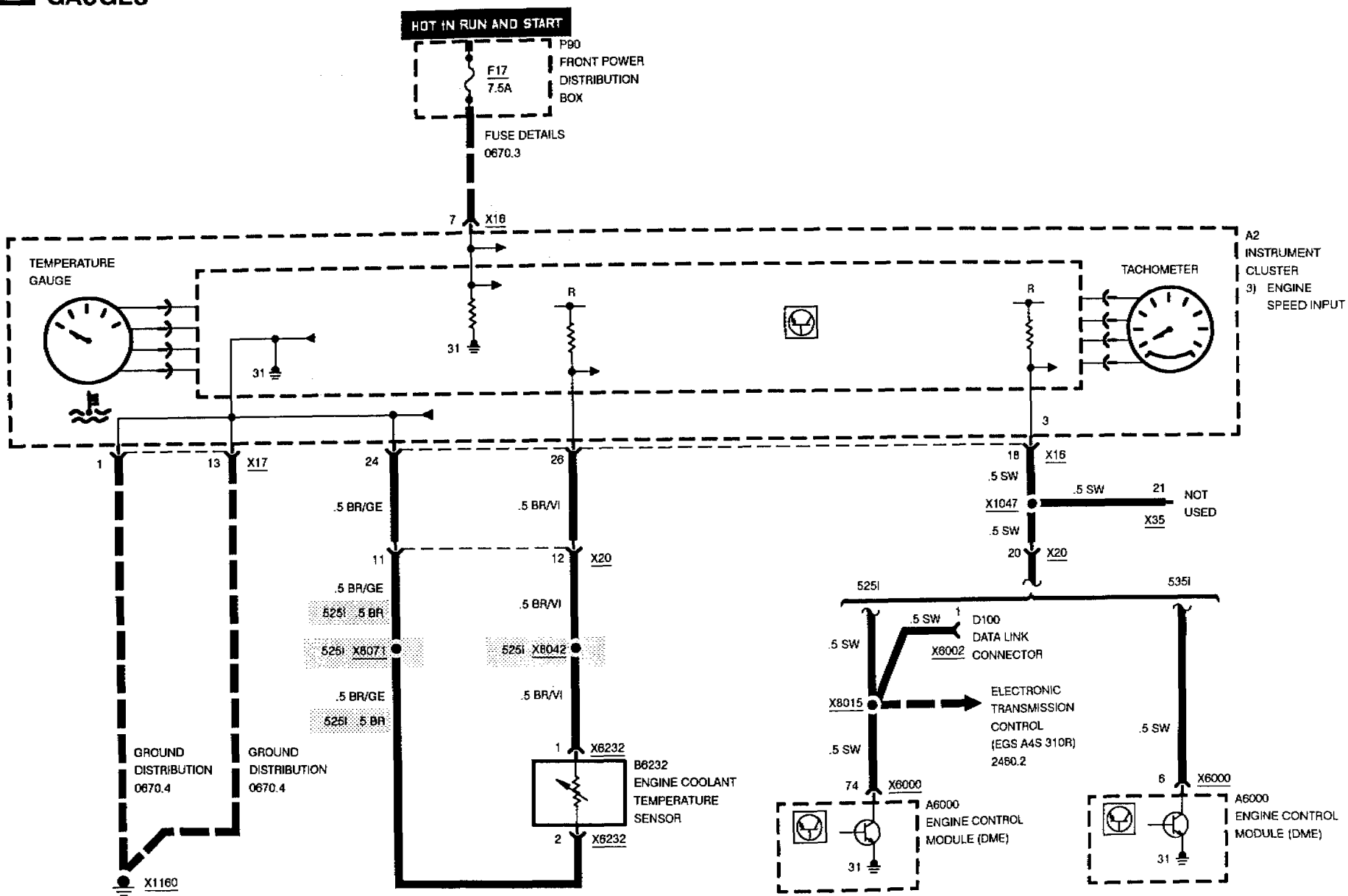
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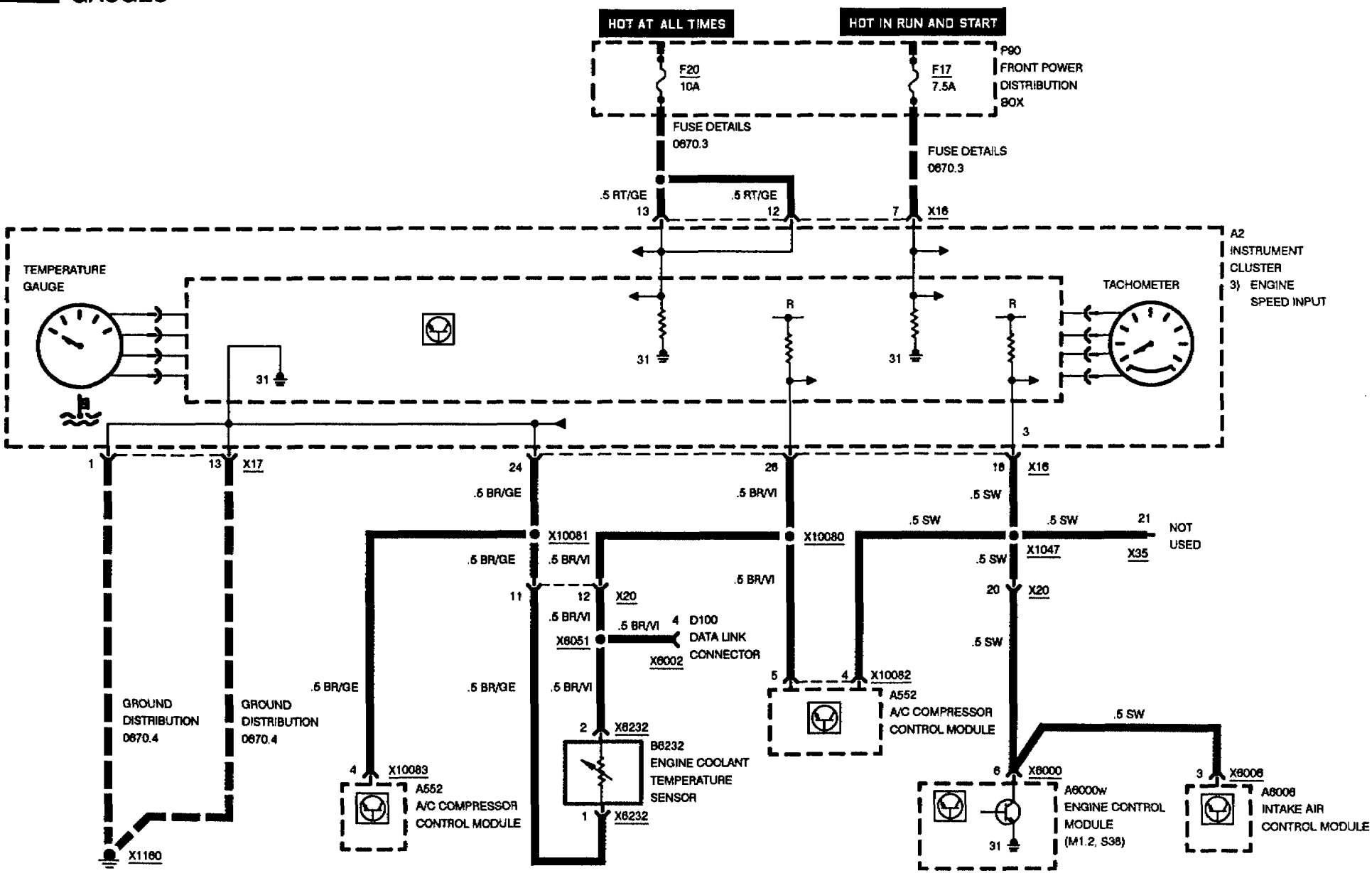
INDICATORS



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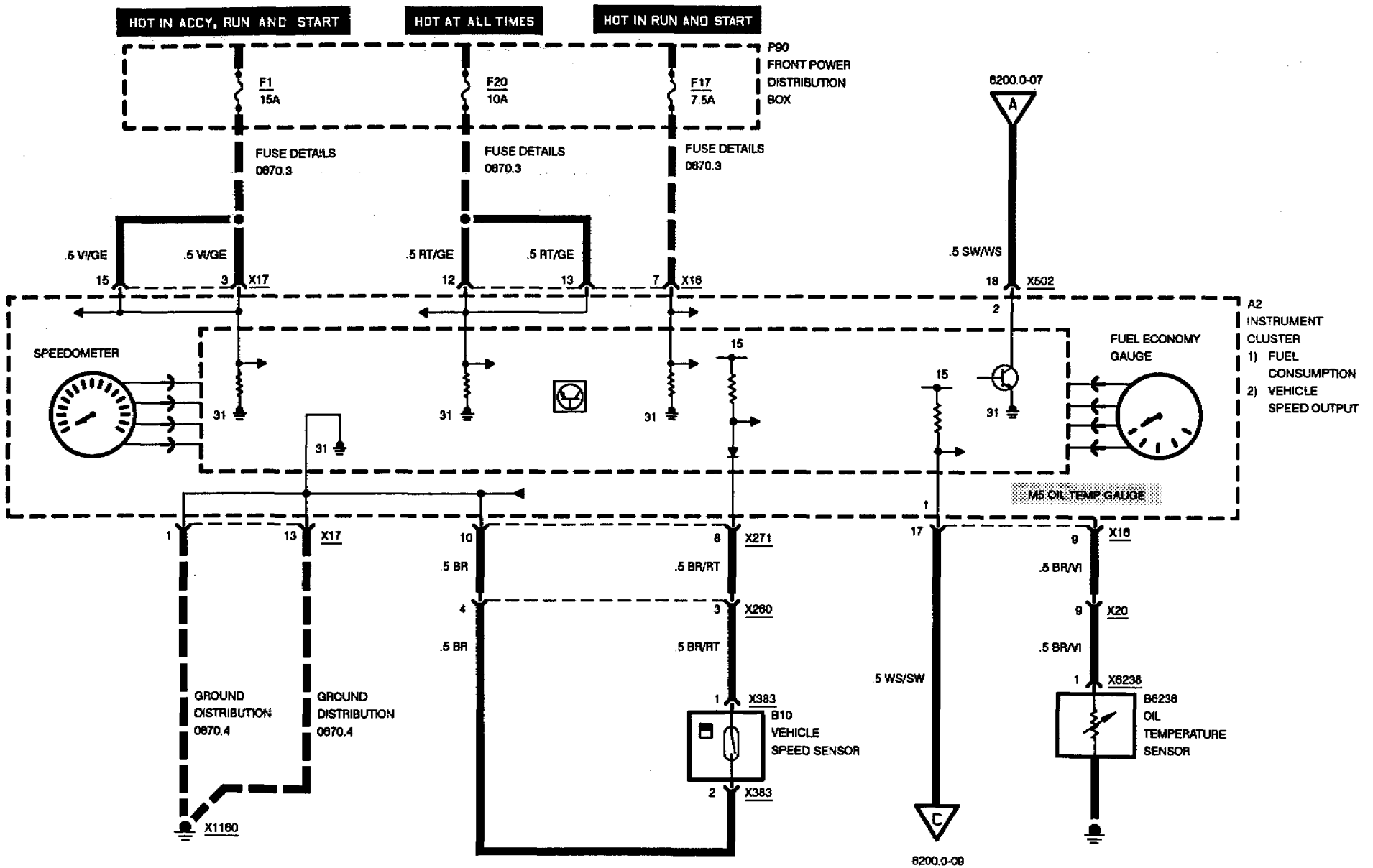
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HOT AT ALL TIMES
HOT IN RUN AND START
P90
FRONT POWER DISTRIBUTION BOX
F20
10A
F17
7.5A
FUSE DETAILS
0670.3
FUSE DETAILS
0670.3
.5 RT/GE
.5 RT/GE
13
12
7
X16
A2
INSTRUMENT CLUSTER
3) ENGINE SPEED INPUT
TEMPERATURE GAUGE
TACHOMETER
31
31
31
R
R
1
13
X17
24
.5 BR/GE
26
.5 BR/VI
18
X16
.5 SW
21
NOT USED
X35
X1047
.5 SW
.5 SW
X10081
X10080
.5 BR/GE
.5 BR/VI
.5 BR/VI
11
12
X20
20
X20
.5 BR/VI
.5 BR/VI
4
D100
DATA LINK CONNECTOR
X6002
X6051
.5 SW
5
4
X10082
A552
A/C COMPRESSOR CONTROL MODULE
.5 BR/GE
.5 BR/GE
.5 BR/VI
.5 SW
2
X6232
B6232
ENGINE COOLANT TEMPERATURE SENSOR
1
X6232
4
X10083
A552
A/C COMPRESSOR CONTROL MODULE
6
X6000
A6000w
ENGINE CONTROL MODULE (M1.2, S38)
31
3
X6006
A6006
INTAKE AIR CONTROL MODULE
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X1160

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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

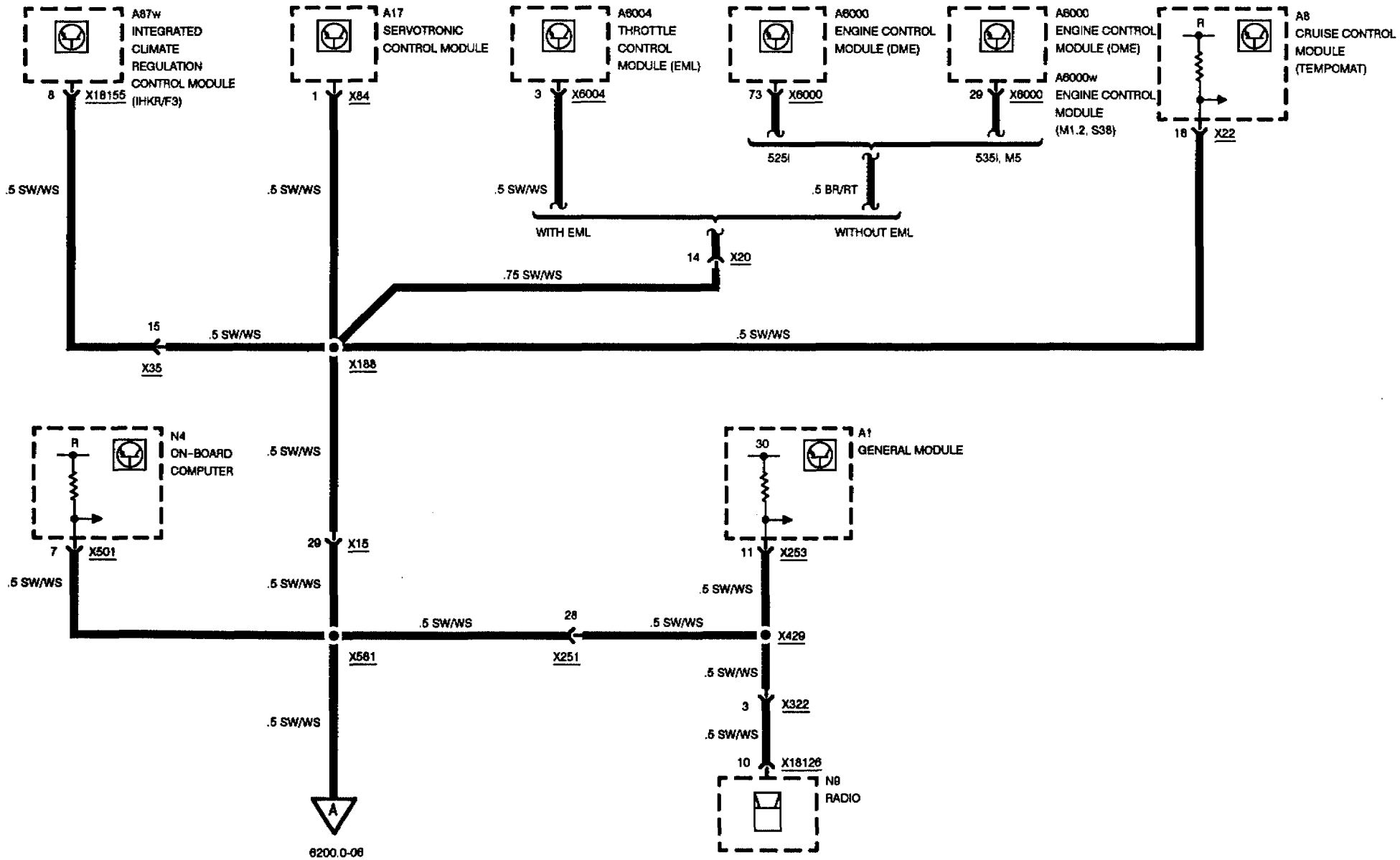
GAUGES



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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

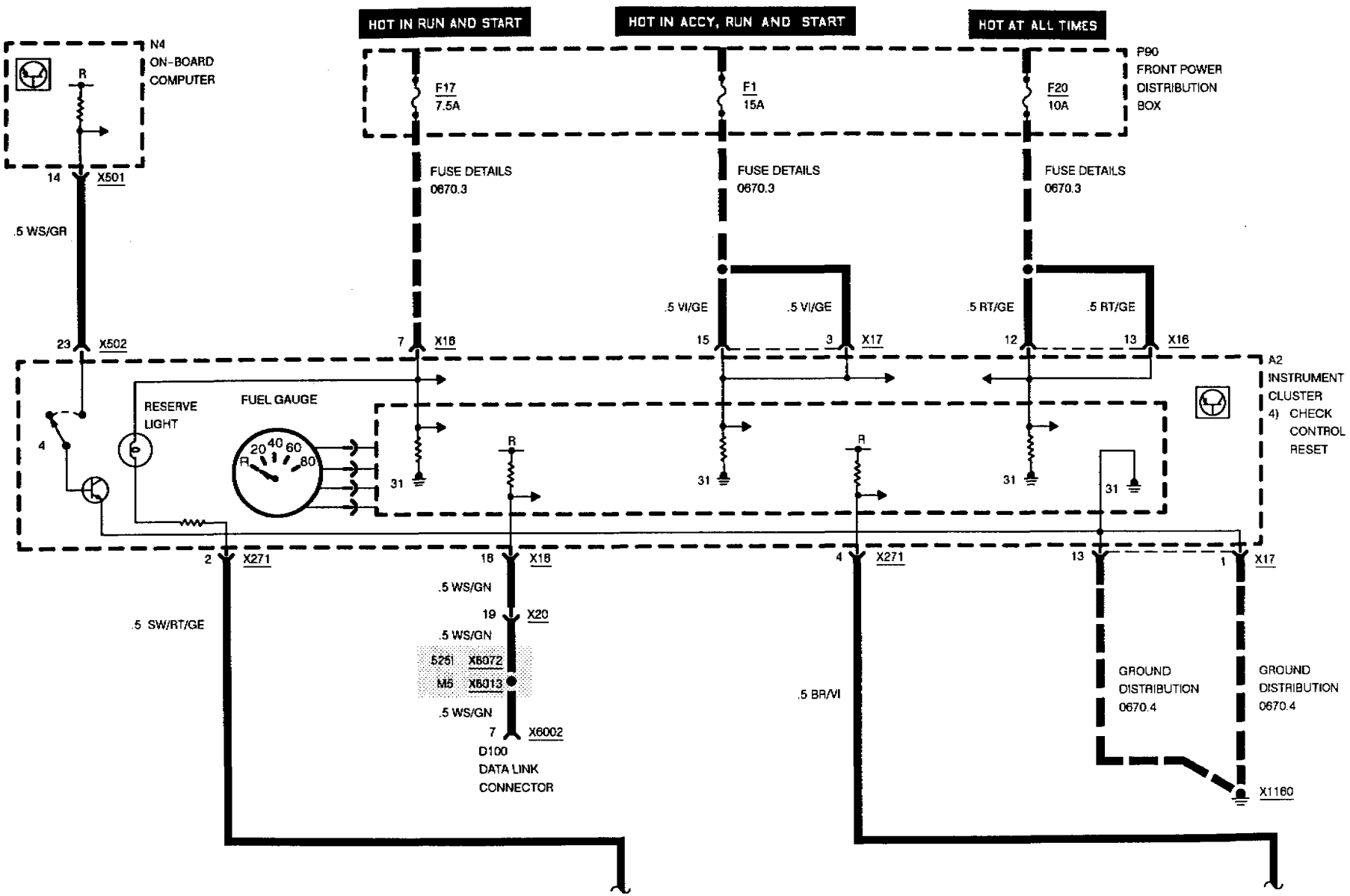
SPEED SIGNAL



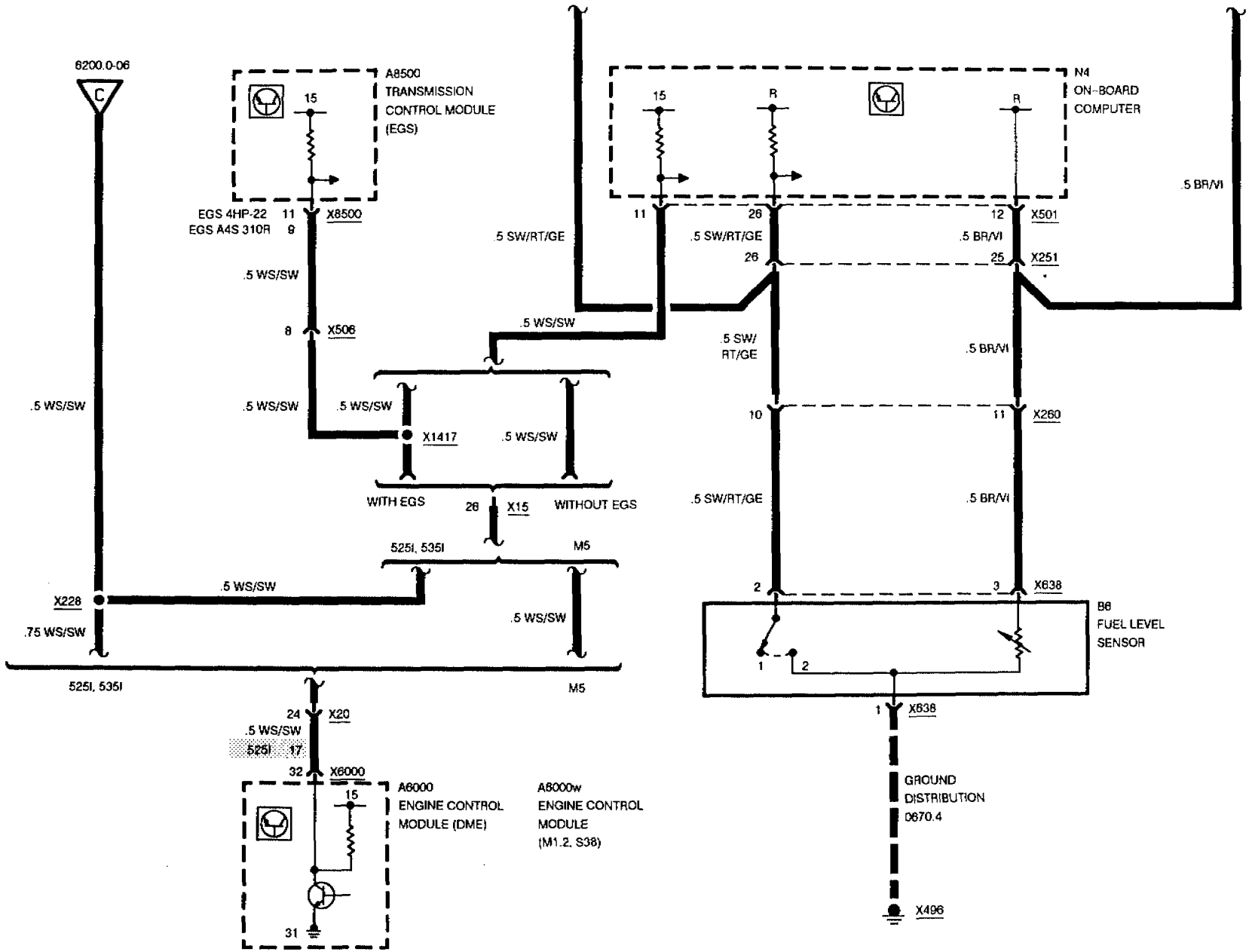
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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

GAUGES



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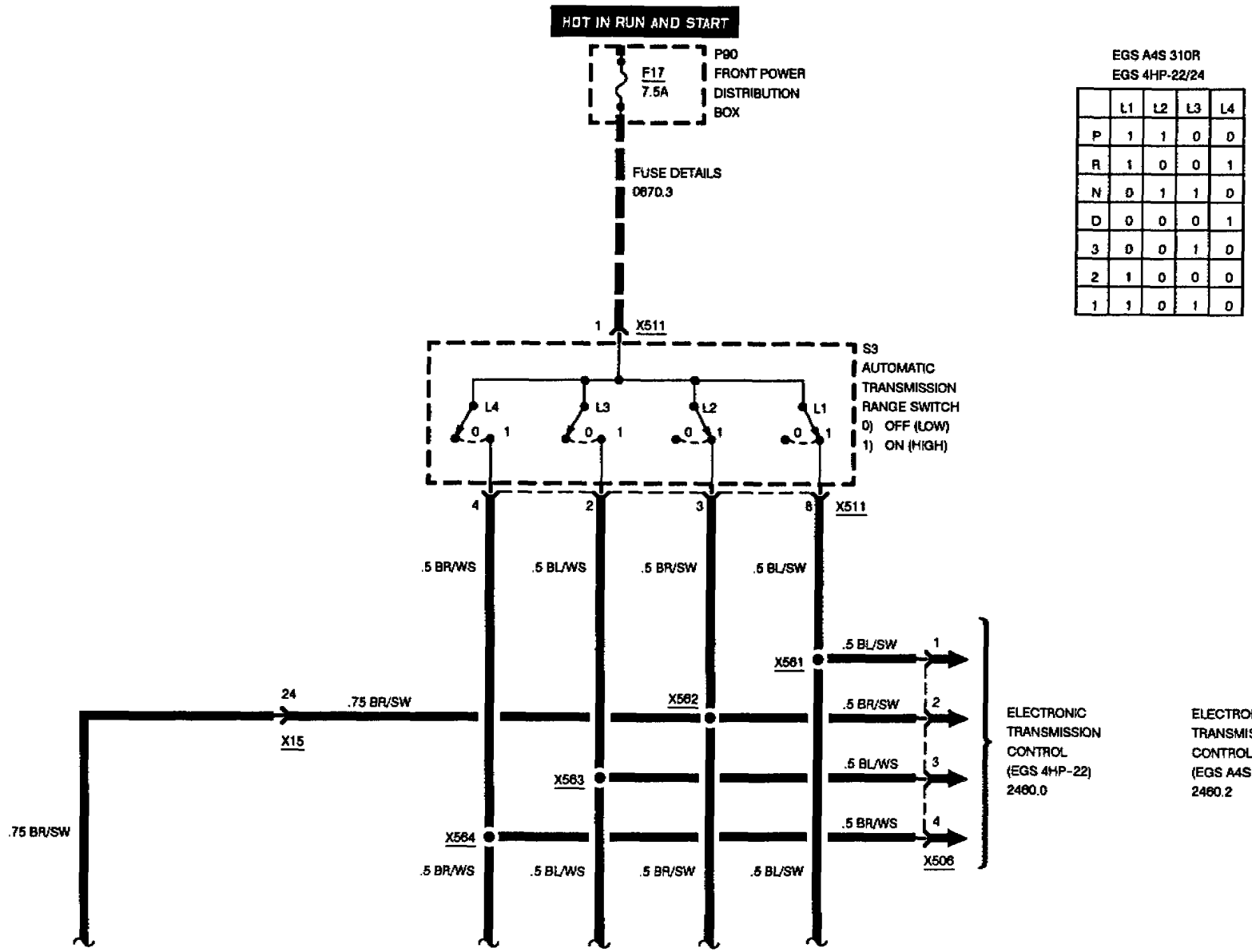


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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

GEAR SELECTOR

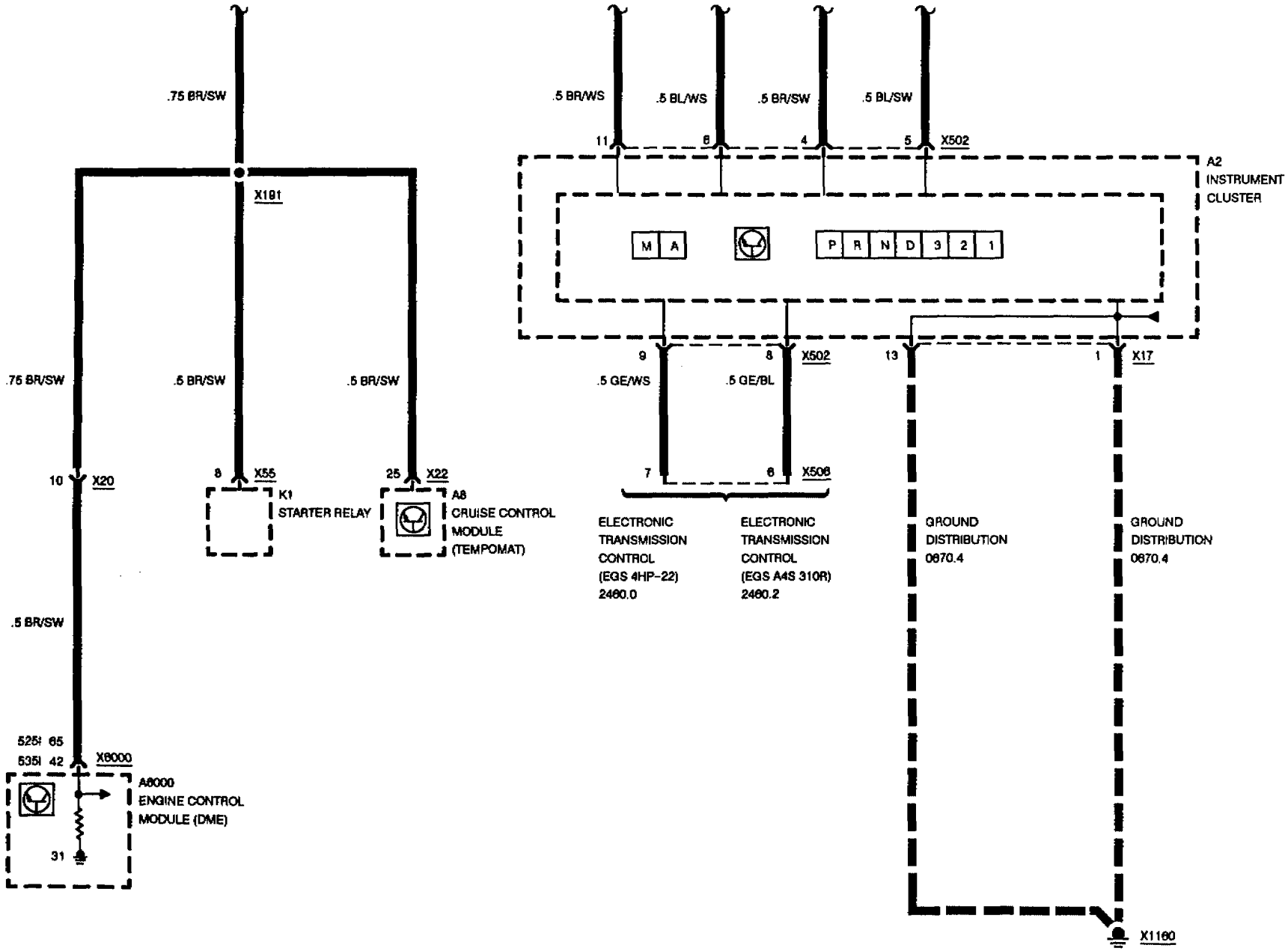
525i, 535i



EGS A4S 310R
EGS 4HP-22/24

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

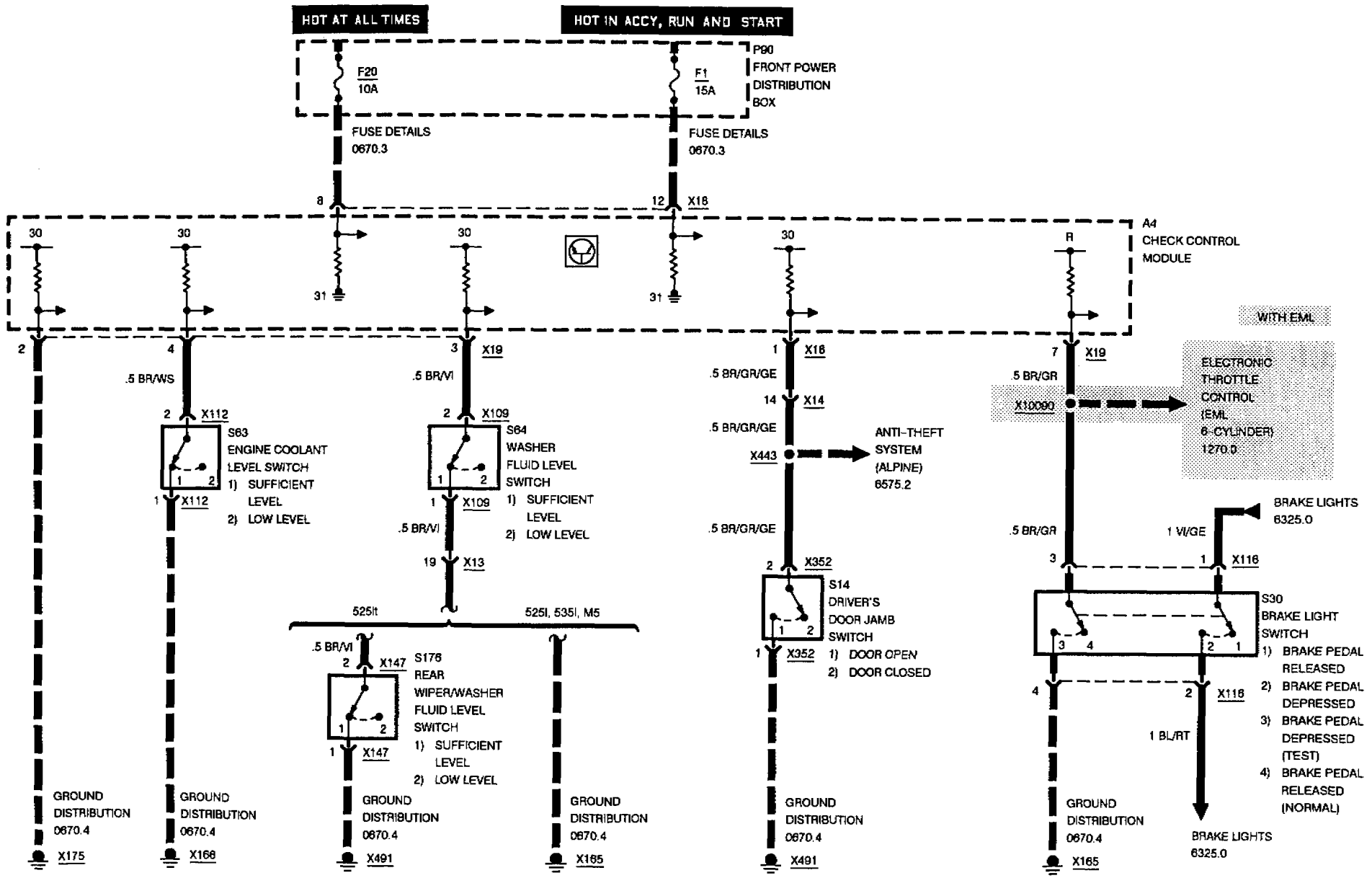
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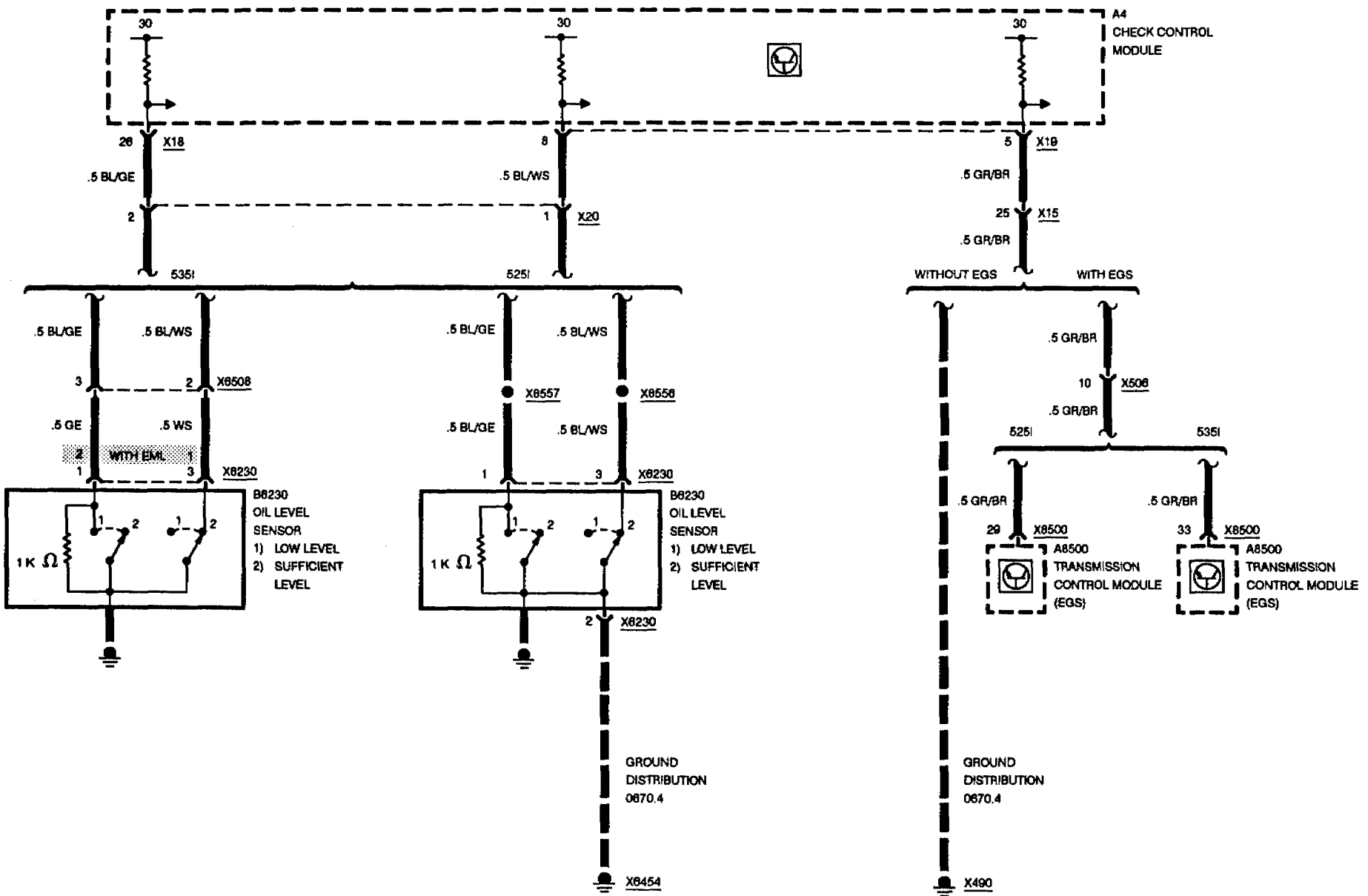
INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

CHECK CONTROL



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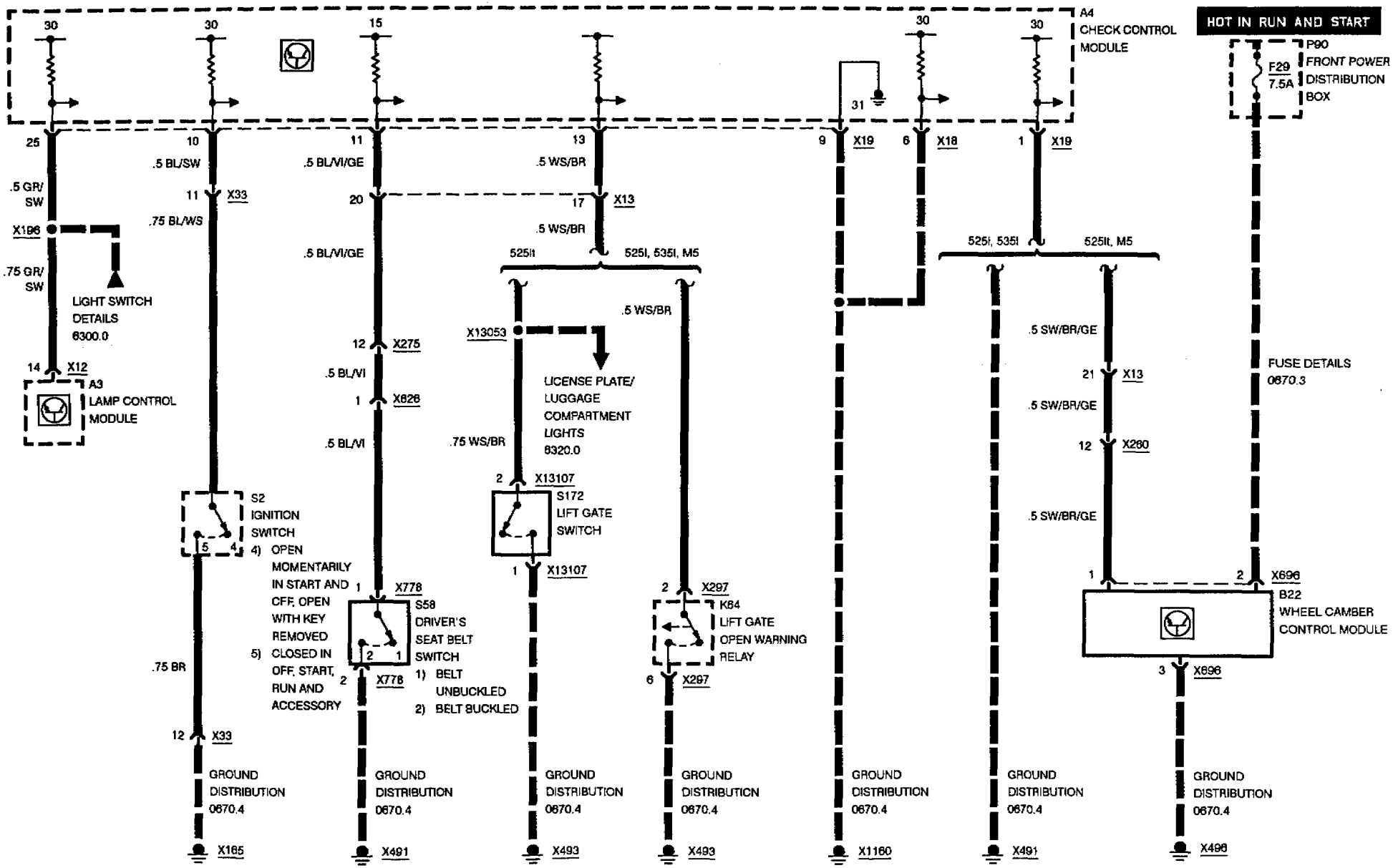
CHECK CONTROL



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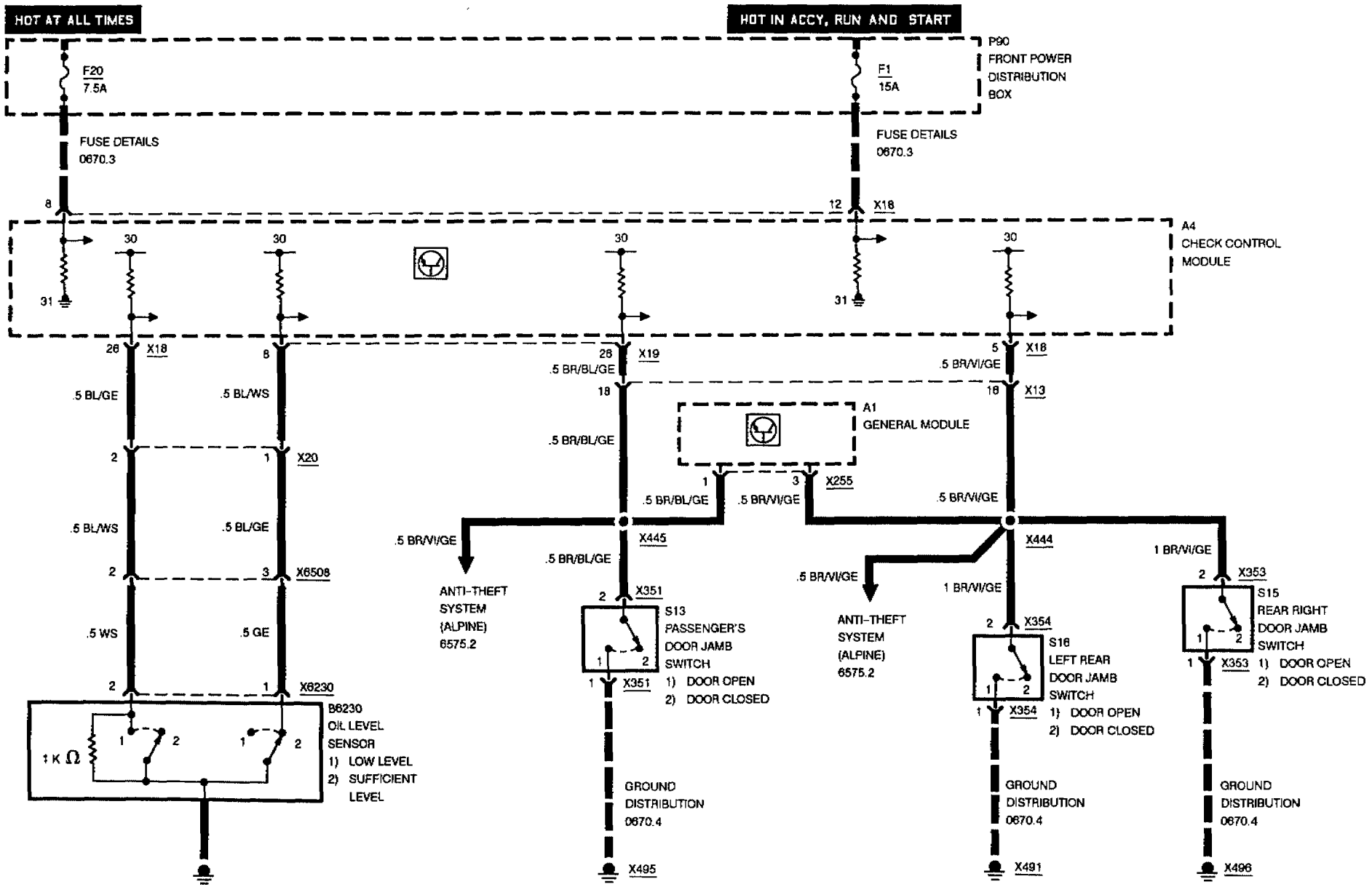
INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

CHECK CONTROL



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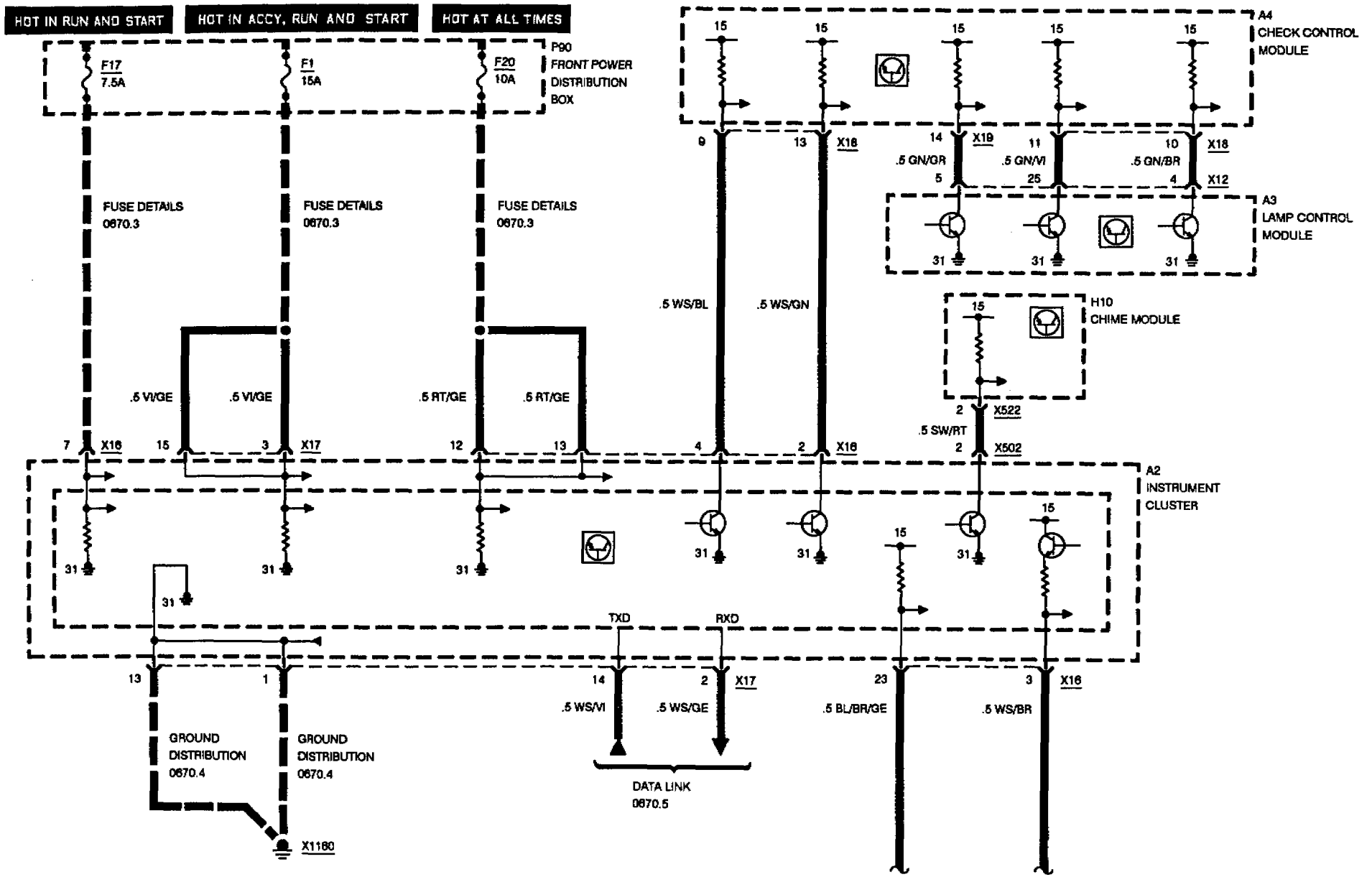
CHECK CONTROL



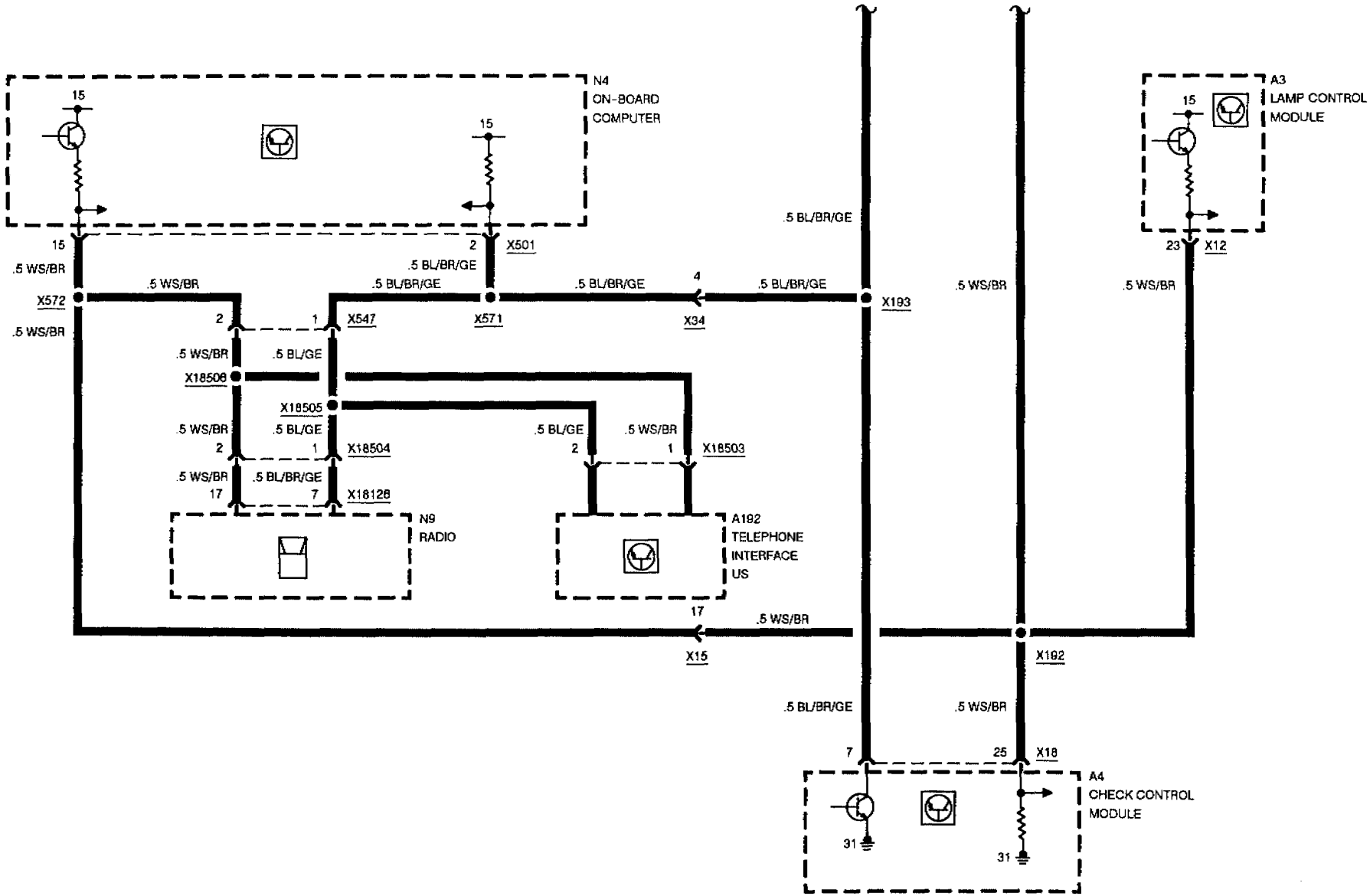
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INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

DATA LINK



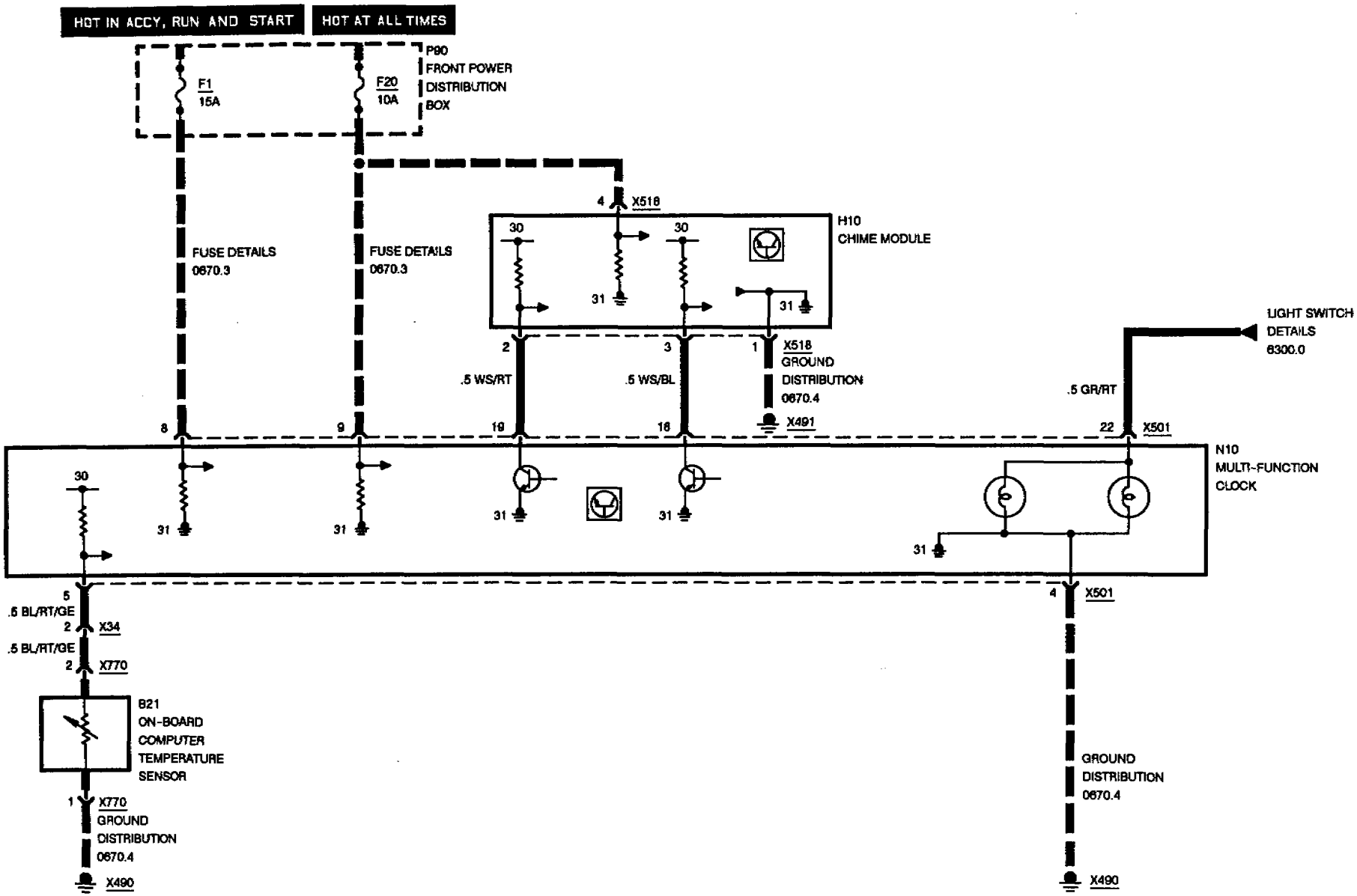
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CLOCK

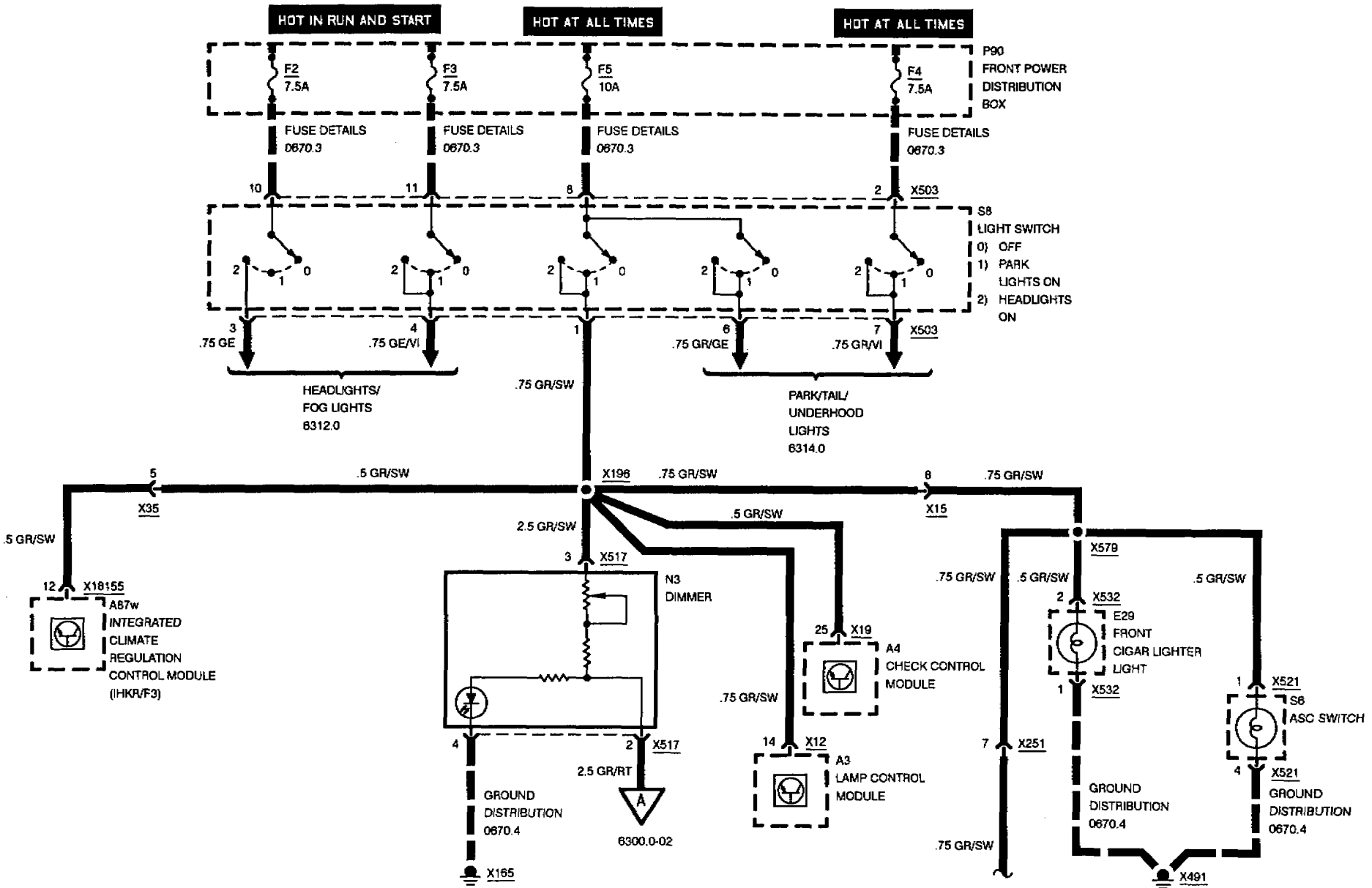
WITHOUT ON-BOARD COMPUTER



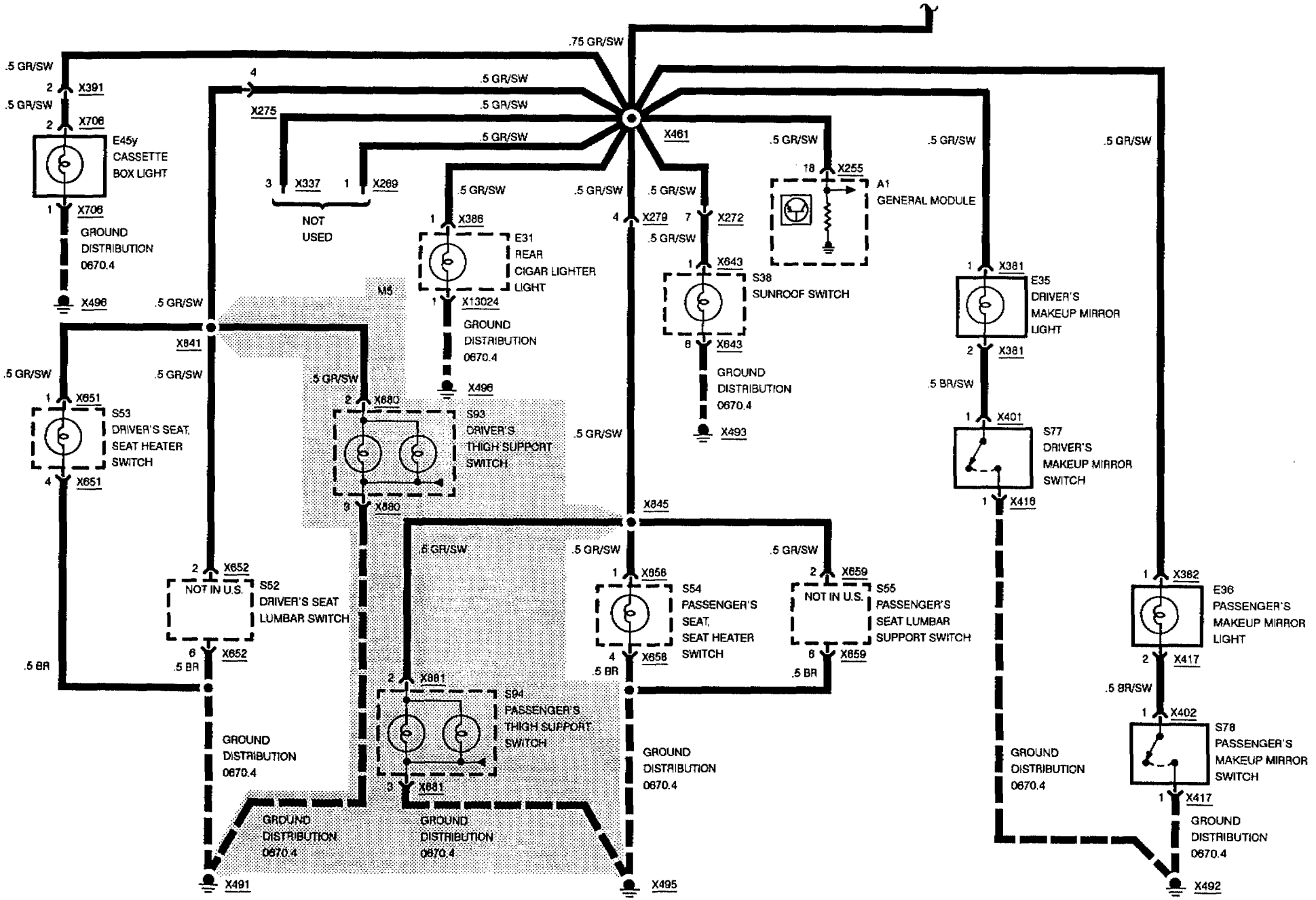
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LIGHT SWITCH DETAILS

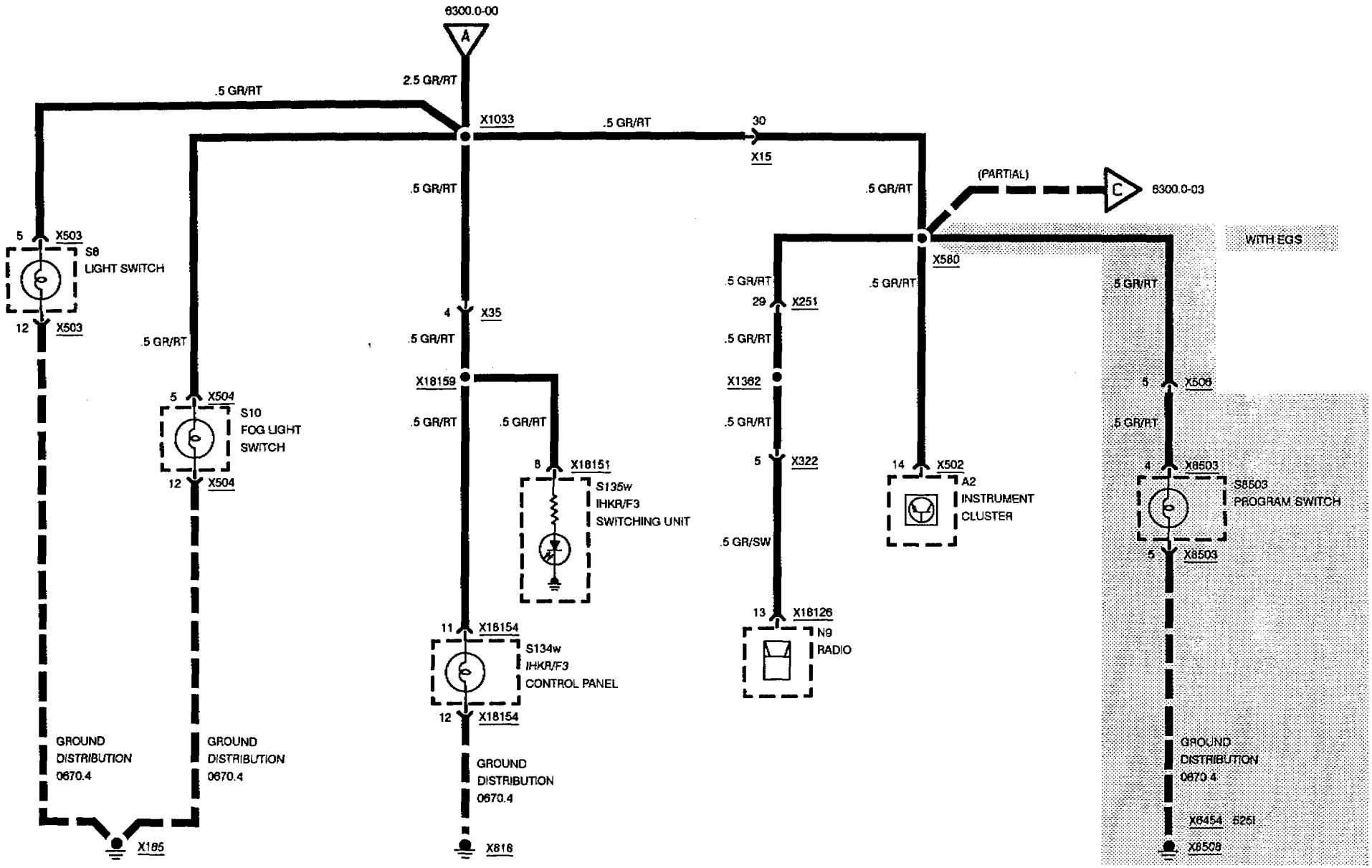


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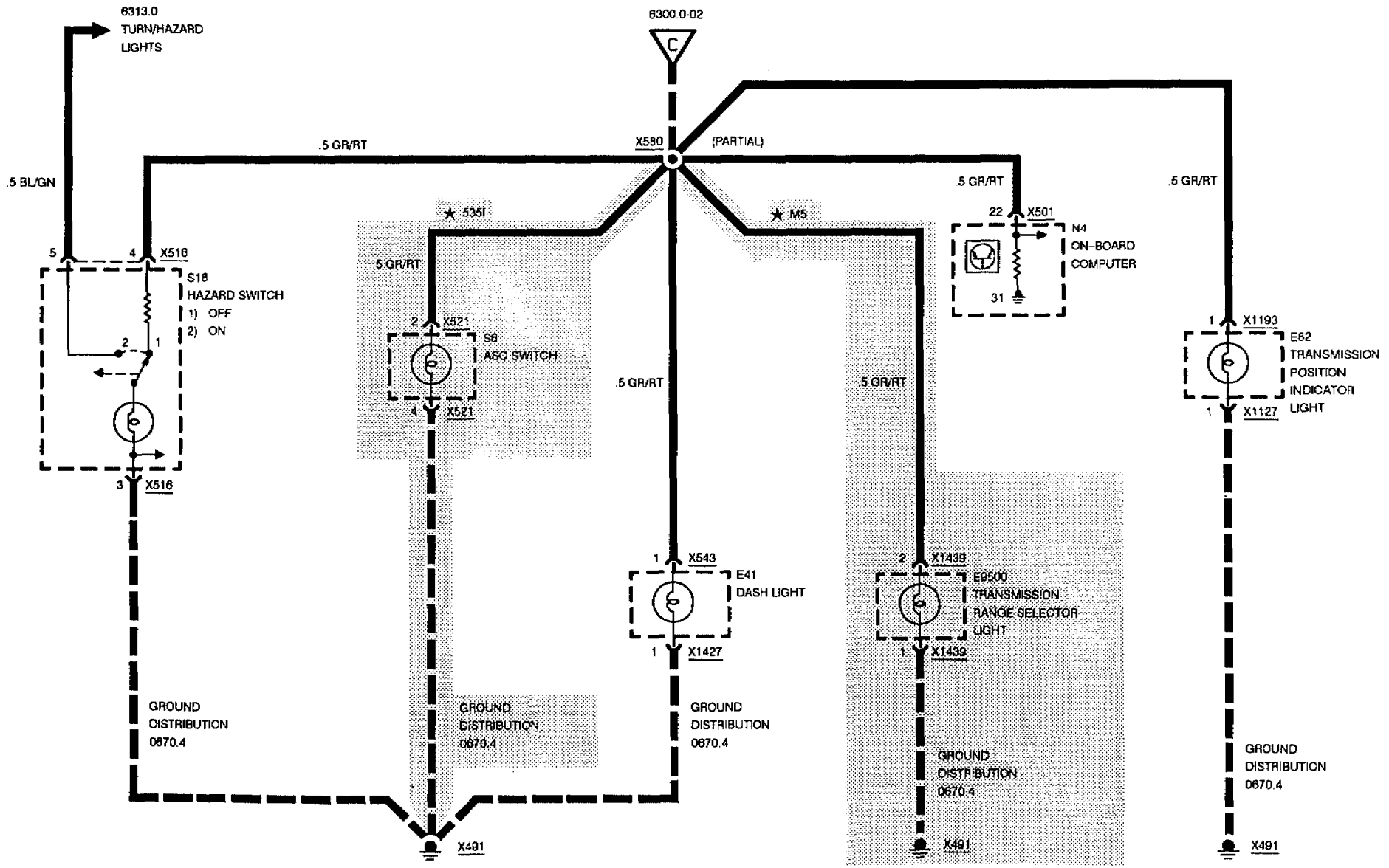
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LIGHT SWITCH DETAILS



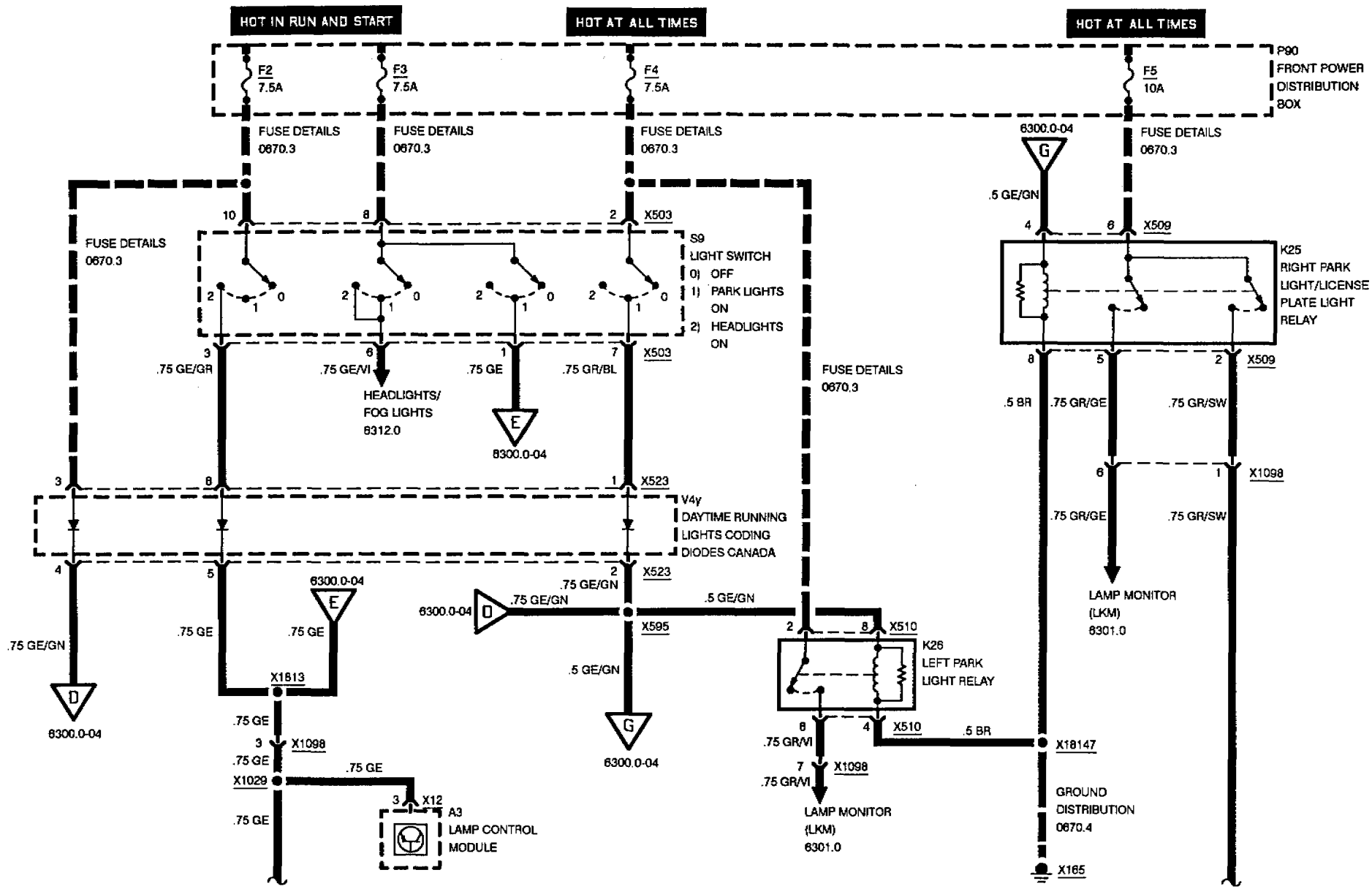
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LIGHT SWITCH DETAILS



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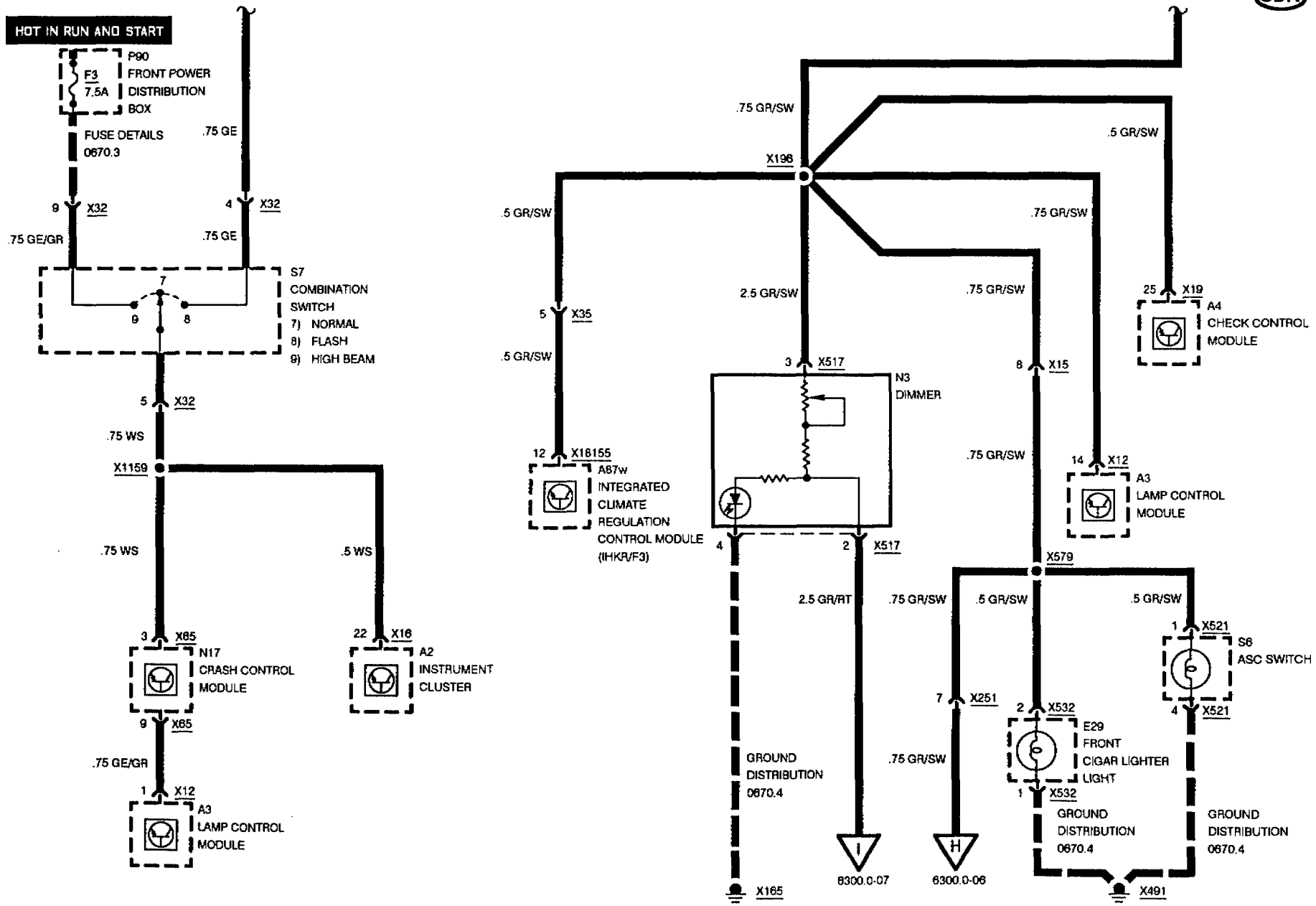
LIGHT SWITCH DETAILS



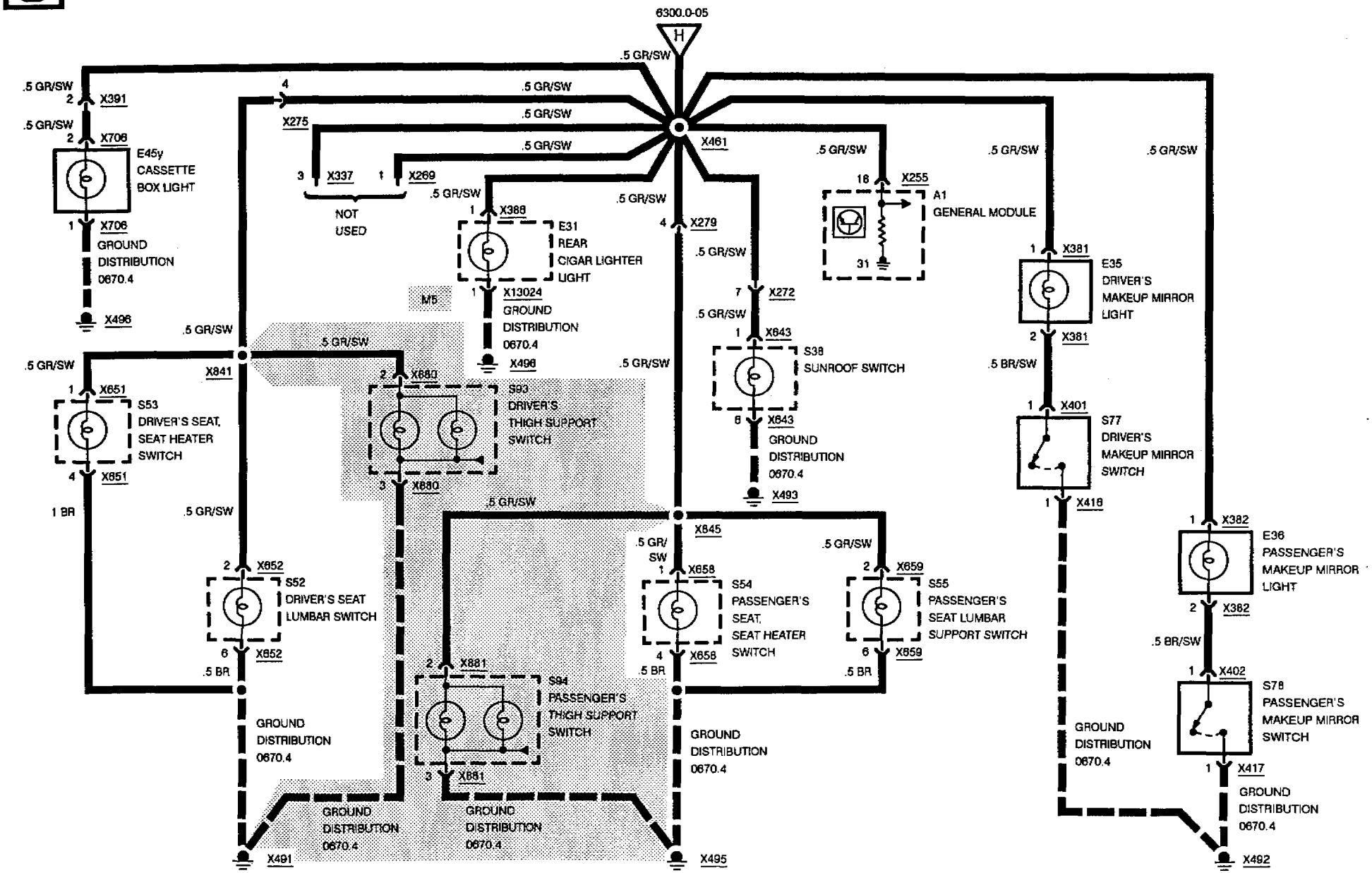
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CDN

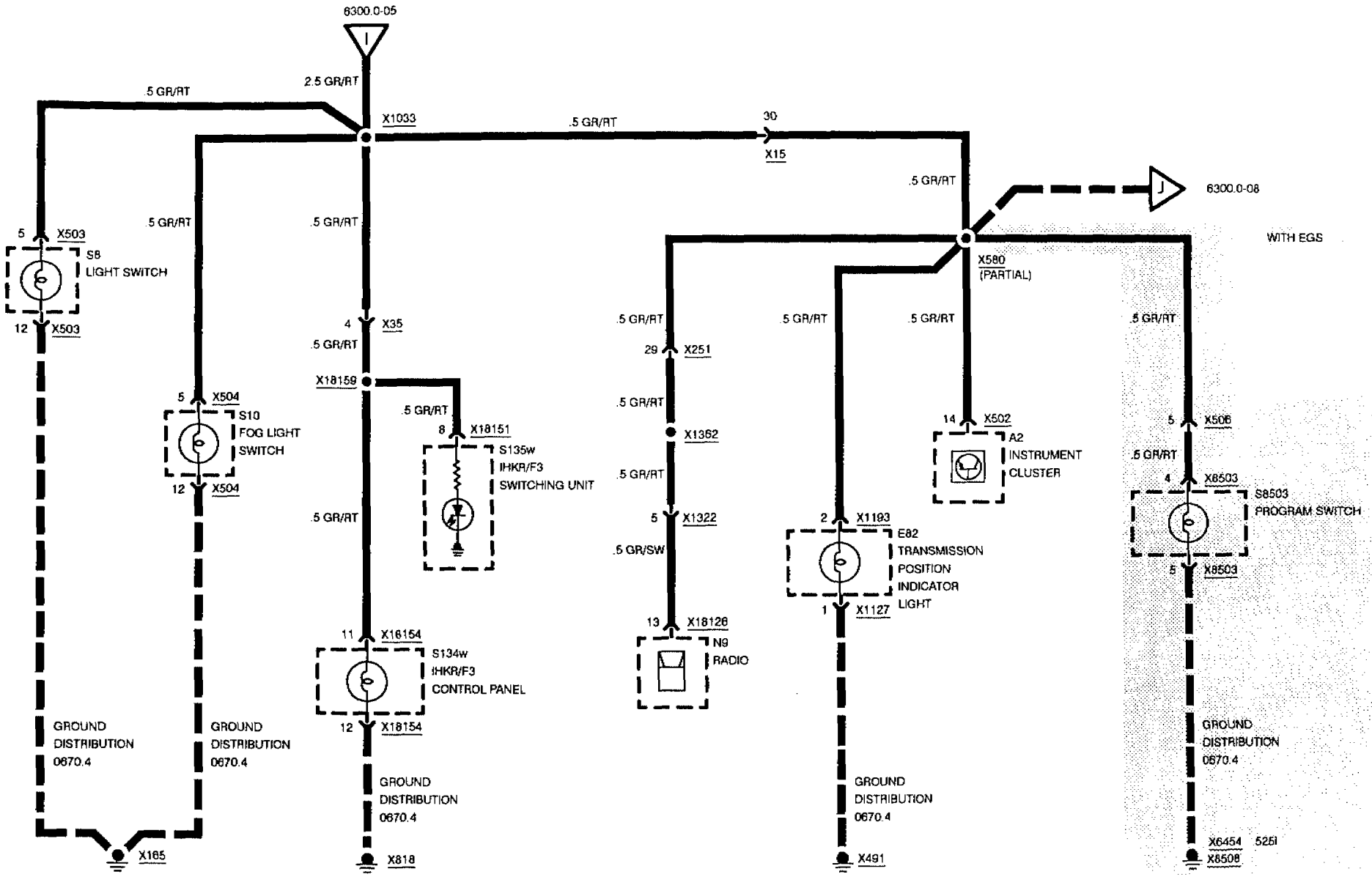


LIGHT SWITCH DETAILS



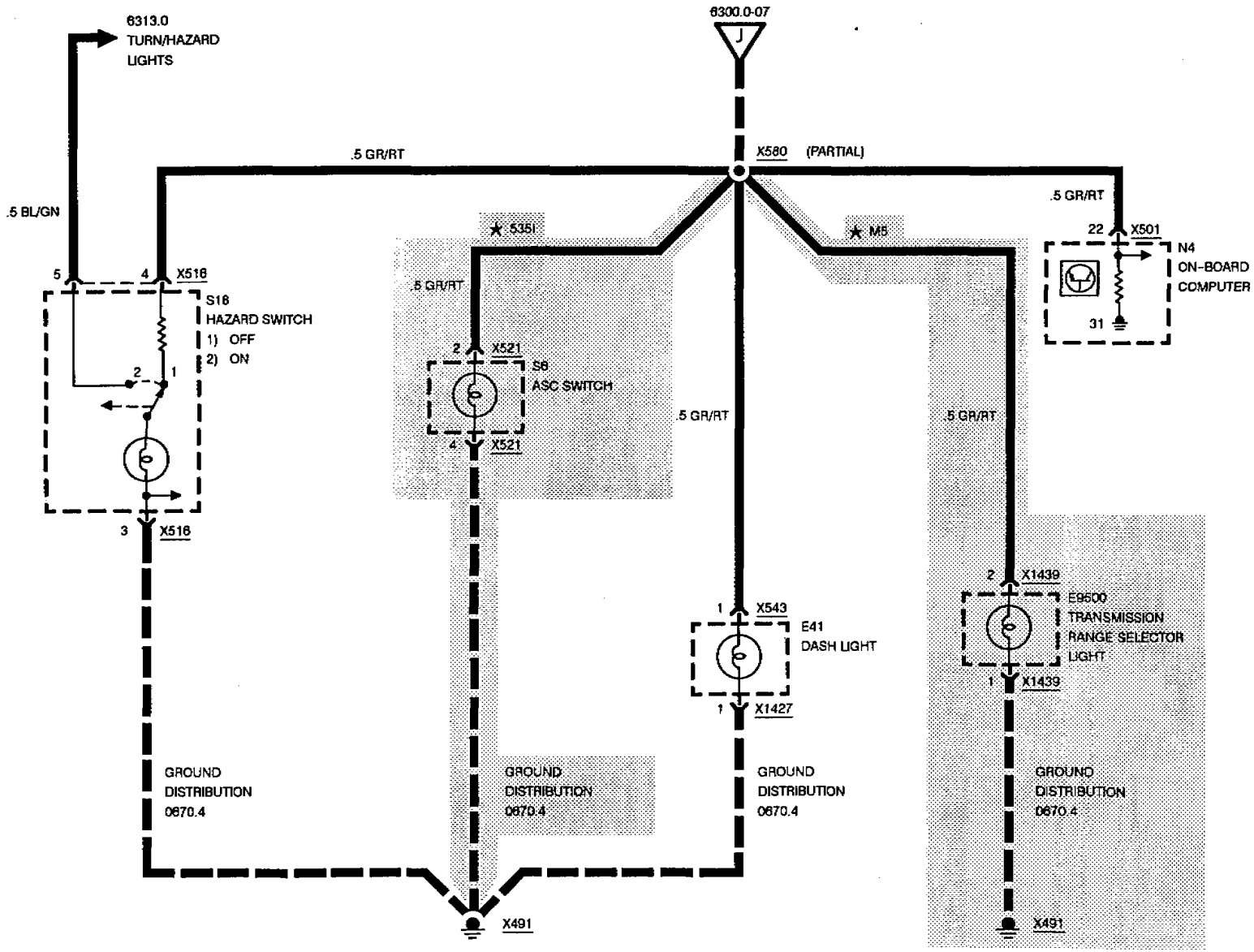
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LIGHT SWITCH DETAILS



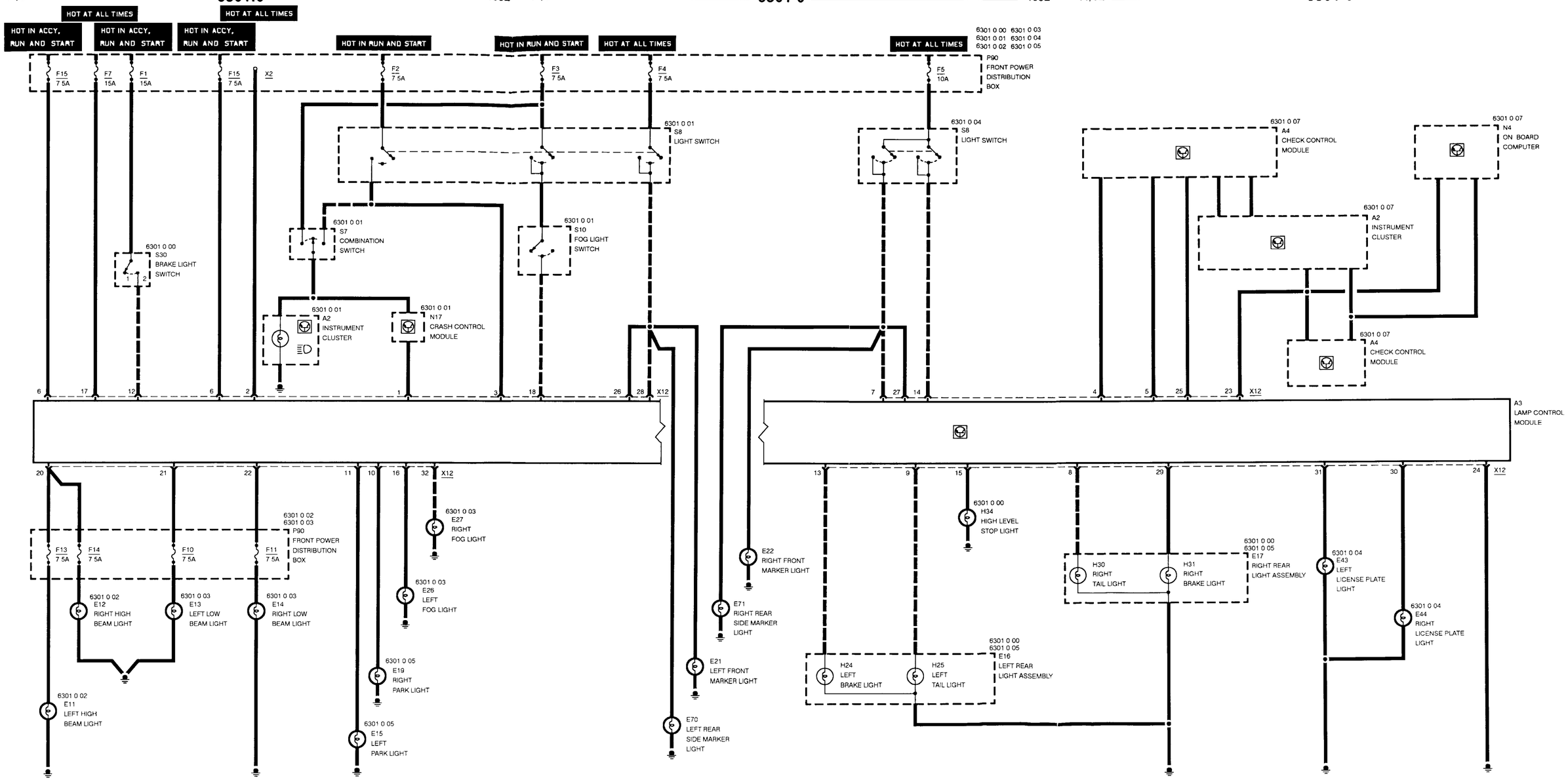
cardiagn.com

LIGHT SWITCH DETAILS



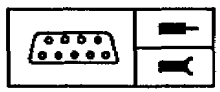
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11/92 6301 0 1992
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LAMP MONITOR (LKM)



Pin Assignments

X12

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	High beam signal	Crash control unit	approx. 3.5 V–5 V approx. 0 V	ON OFF	
2	E	LKM voltage supply	Power distribution box	approx. 12 V		
3	E	Headlights signal	Light switch	approx. 3.5 V–5 V approx. 0 V	ON OFF	
4	A	Data link to CCM	Check control module			
5	A	Data link to CCM	Check control module			
6	E	Terminal R power	Power distribution box	approx. 12 V		
7	E	Right tail light signal	Light switch	approx.12 V approx. 0 V	ON OFF	
8	A	Right tail light power	Right rear light assembly	approx. 12 V approx. 0 V	ON OFF	
9	A	Left tail light power	Left rear light assembly	approx. 12 V approx. 0 V	ON OFF	
10	A	Right park light power	Right front light assembly	approx. 12 V approx. 0 V	ON OFF	
11	A	Left park light power	Left front light assembly	approx. 12 V approx. 0 V	ON OFF	
12	E	Brake pedal status	Brake light switch	approx. 12 V approx. 0 V	ON OFF	

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LAMP MONITOR (LKM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
13	A	Left brake light power	Left rear light assembly	approx. 12 V approx. 0 V	ON OFF	
14	E	Park lights signal	Light switch	approx. 12 V approx. 0 V	ON OFF	
15	A	High level stop light power	High level stop light	approx. 12 V approx. 0 V	ON OFF	
16	A	Left fog light power	Left fog light	approx. 12 V approx. 0 V	ON OFF	
17	E	Fog lights power	Power distribution box	approx. 12 V		
18	E	Fog light signal	Fog light switch	approx. 12 V approx. 0 V	ON OFF	
19		Not used				
20	A	High beam light power	Fuses/Power distribution box	approx. 12 V approx. 0 V	ON OFF	
21	A	Left low beam power	Left low beam light	approx. 12 V approx. 0 V	ON OFF	
22	A	Right low beam power	Right low beam light	approx. 12 V approx. 0 V	ON OFF	
23	E	Data link to CCM	Check control module			
24	M	Ground, control unit	Body ground	approx. 0 V	None	
25	E	Data link to CCM	Check control module			
26	E	Left tail light signal	Light switch	approx. 12 V approx. 0 V	ON OFF	
27	E	Right park light signal	Light switch	approx. 12 V approx. 0 V	ON OFF	
28	E	Left park light signal	Light switch	approx. 12 V approx. 0 V	ON OFF	

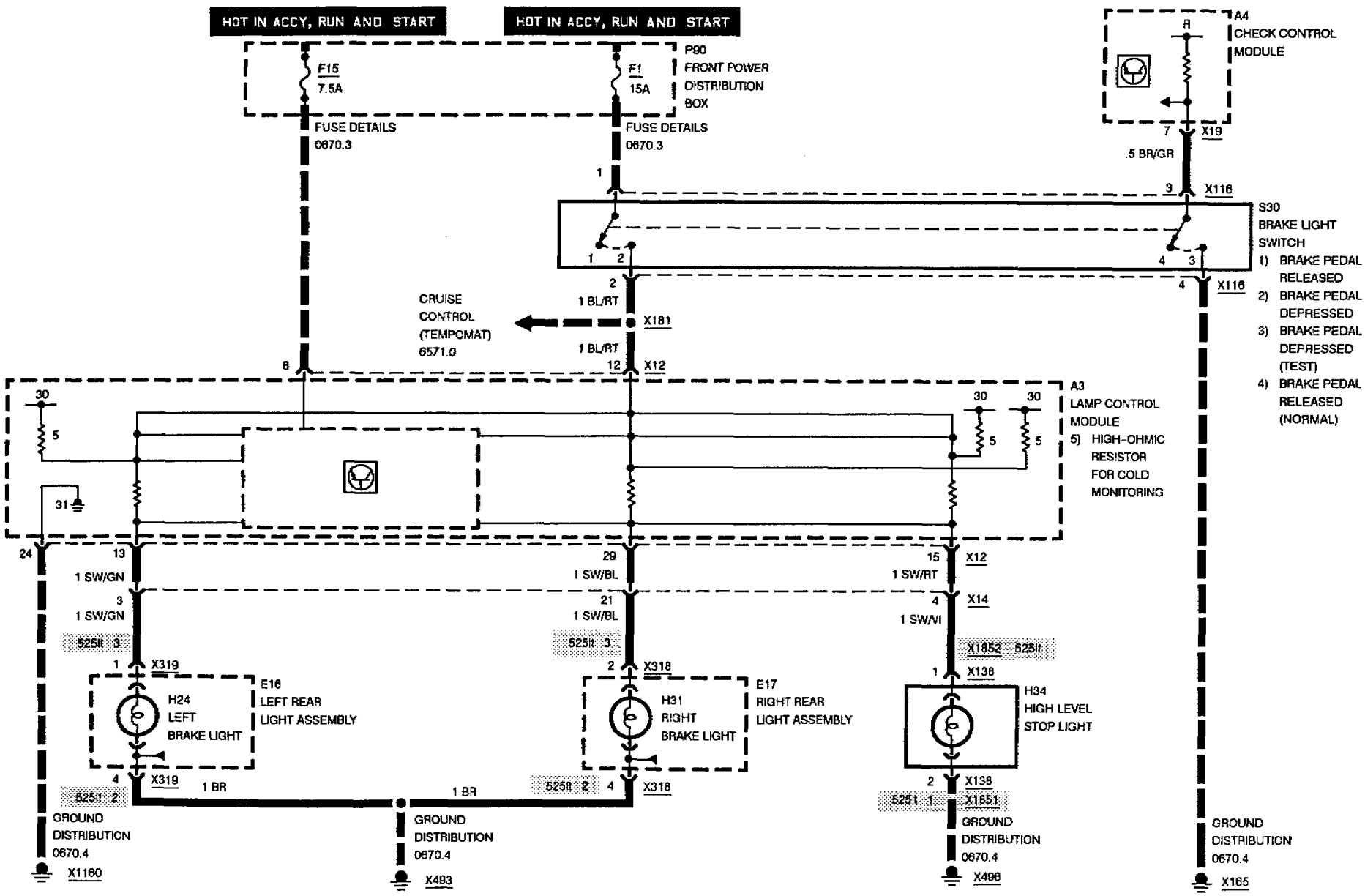
carldata.com

LAMP MONITOR (LKM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
29	A	Right brake light power	Right brake light	approx. 12 V approx. 0 V	ON OFF	
30	A	Right license plate light power	Right license plate light	approx. 12 V approx. 0 V	ON OFF	
31	A	Left license plate light power	Left license plate light	approx. 12 V approx. 0 V	ON OFF	
32	A	Right fog light power	Right fog light	approx. 12 V approx. 0 V	ON OFF	

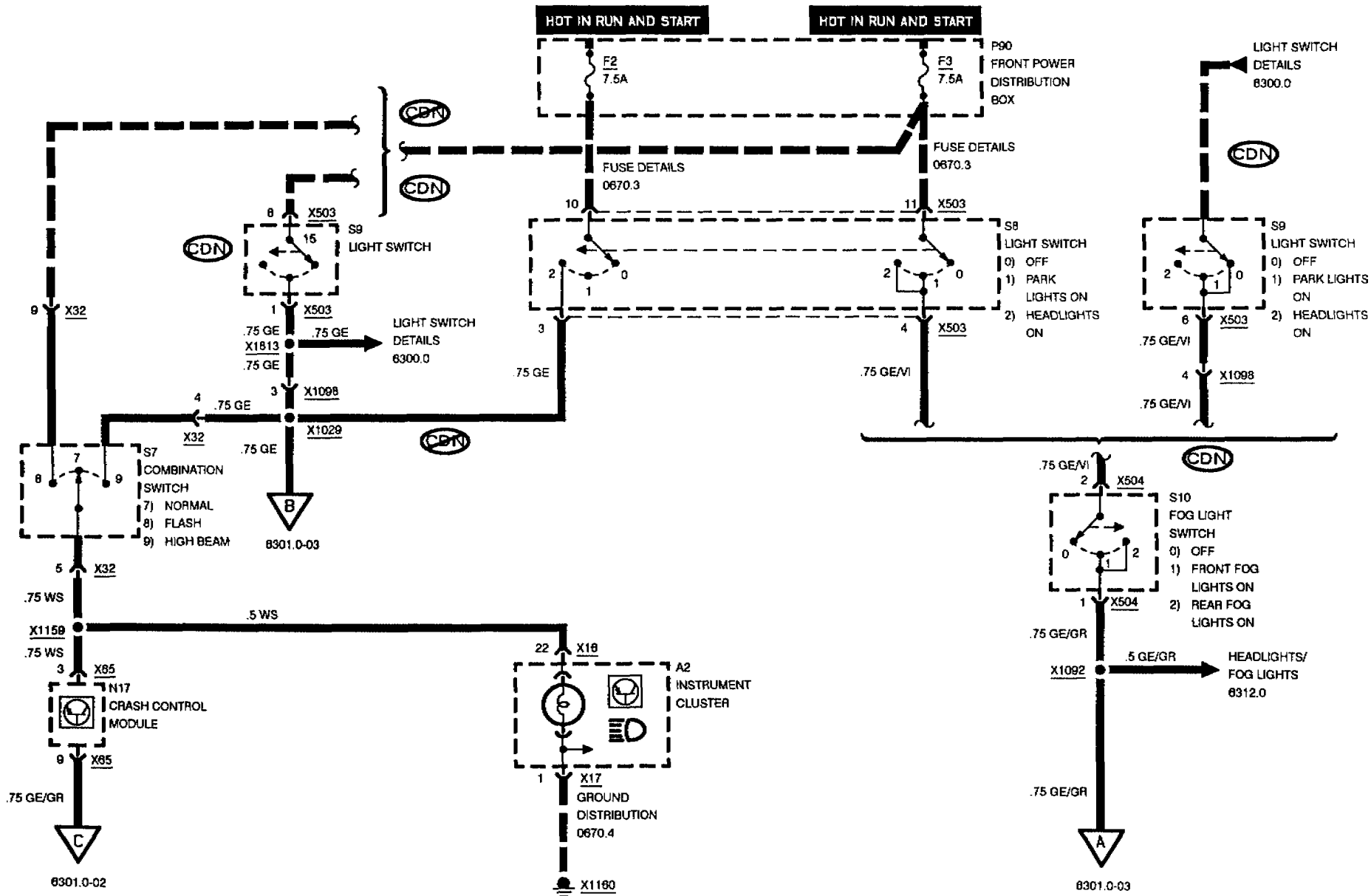
carlabs.com

LAMP MONITOR (LKM)



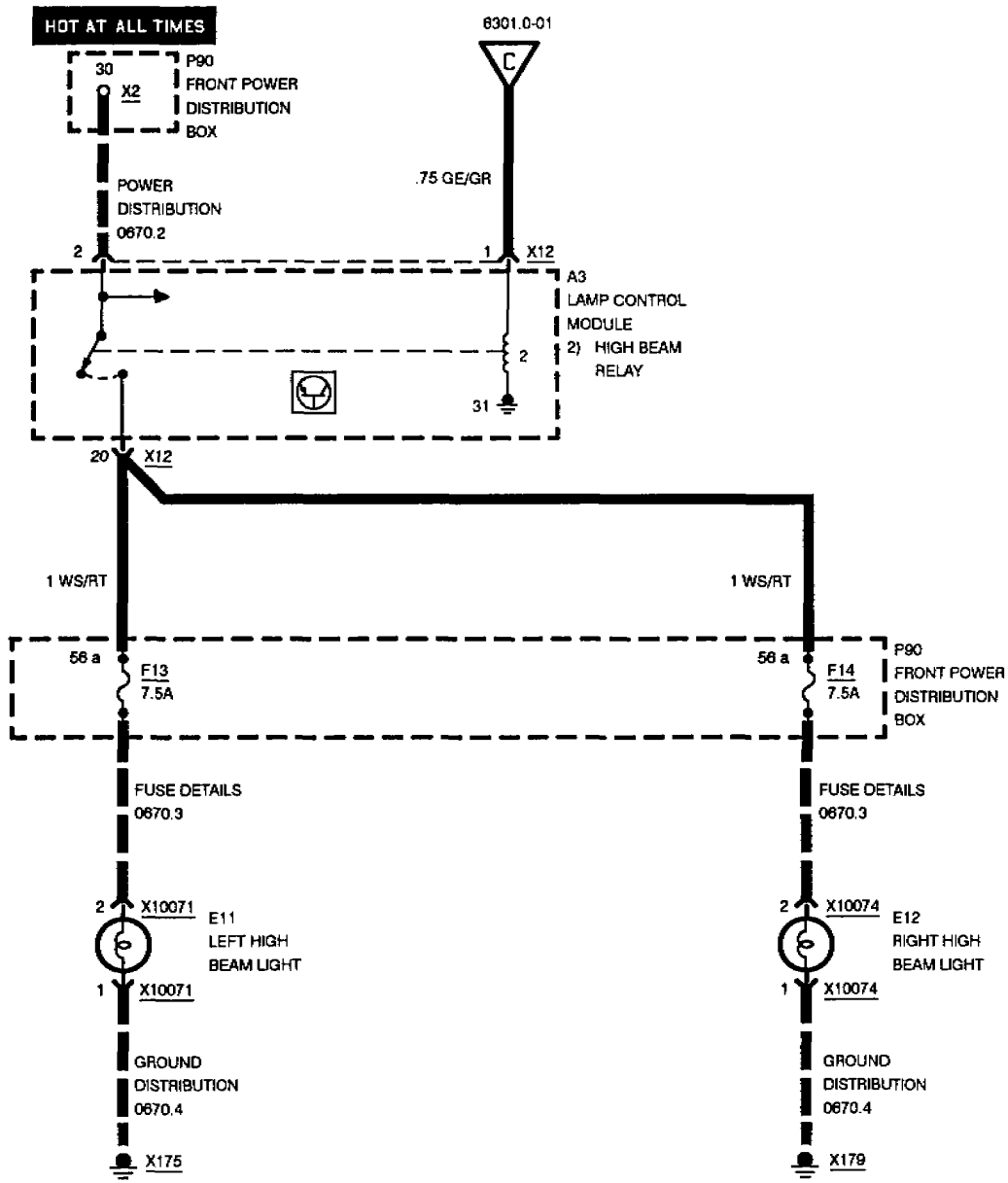
cardiagn.com

LAMP MONITOR (LKM)



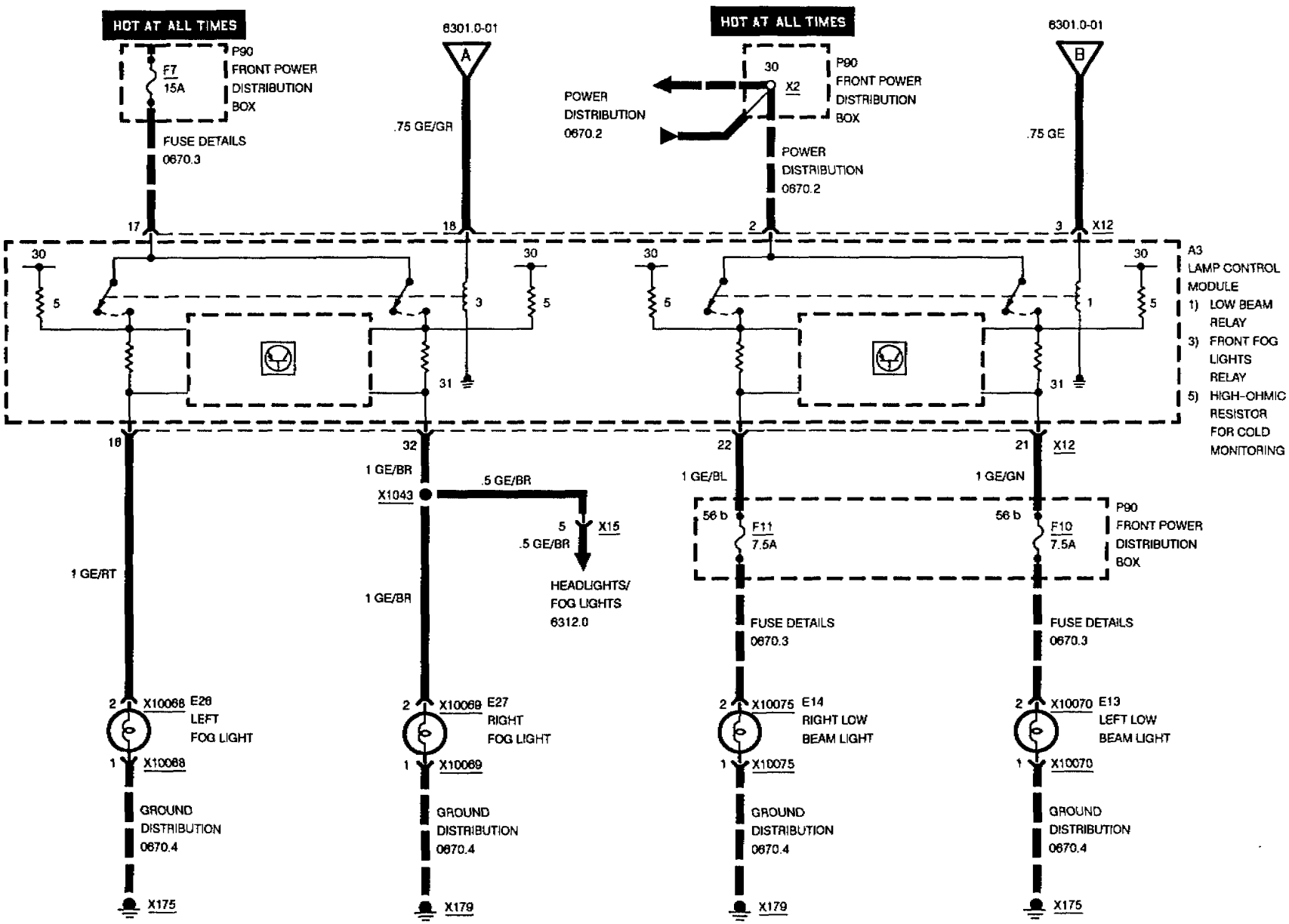
cardiagn.com

LAMP MONITOR (LKM)



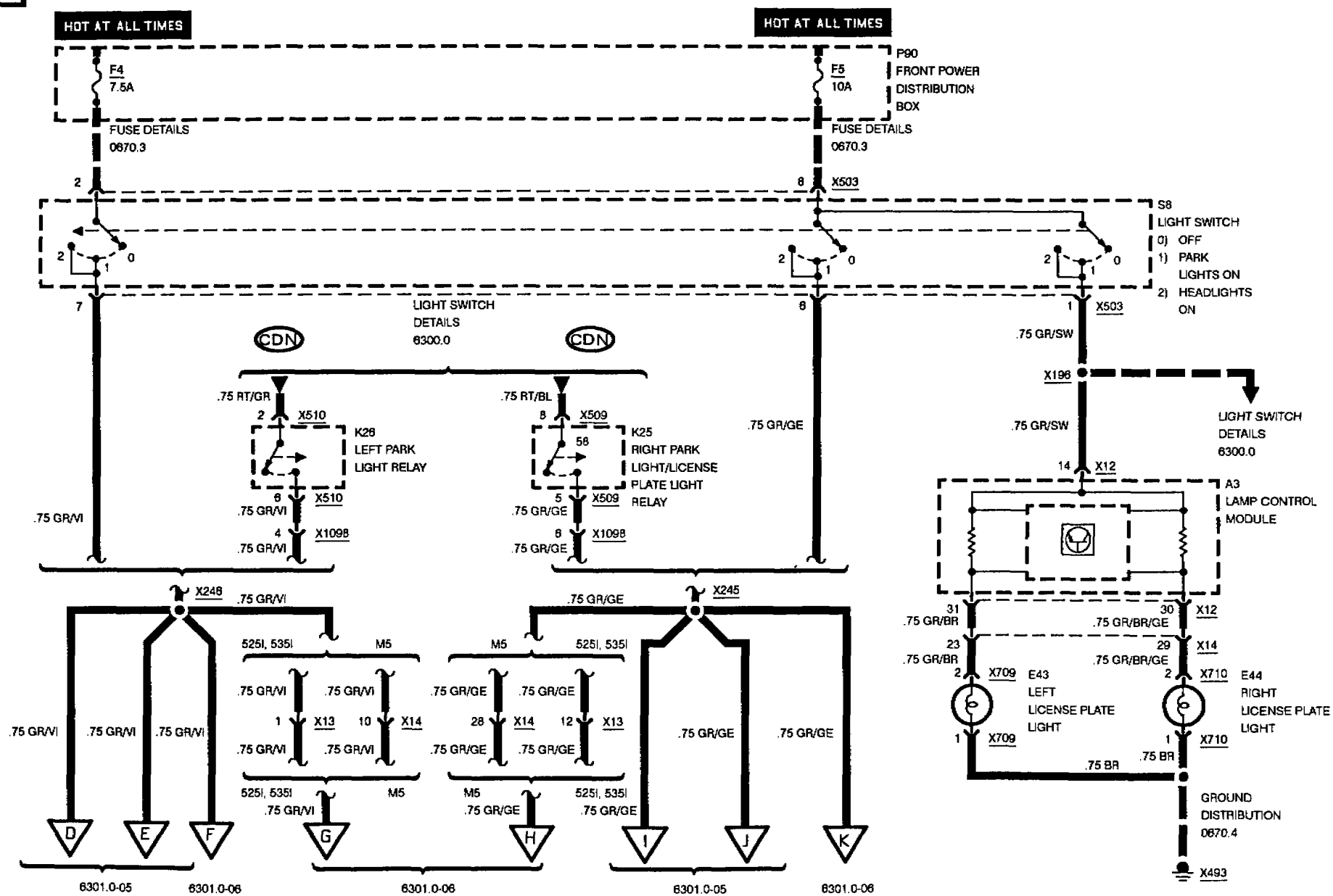
cardiagn.com

LAMP MONITOR (LKM)



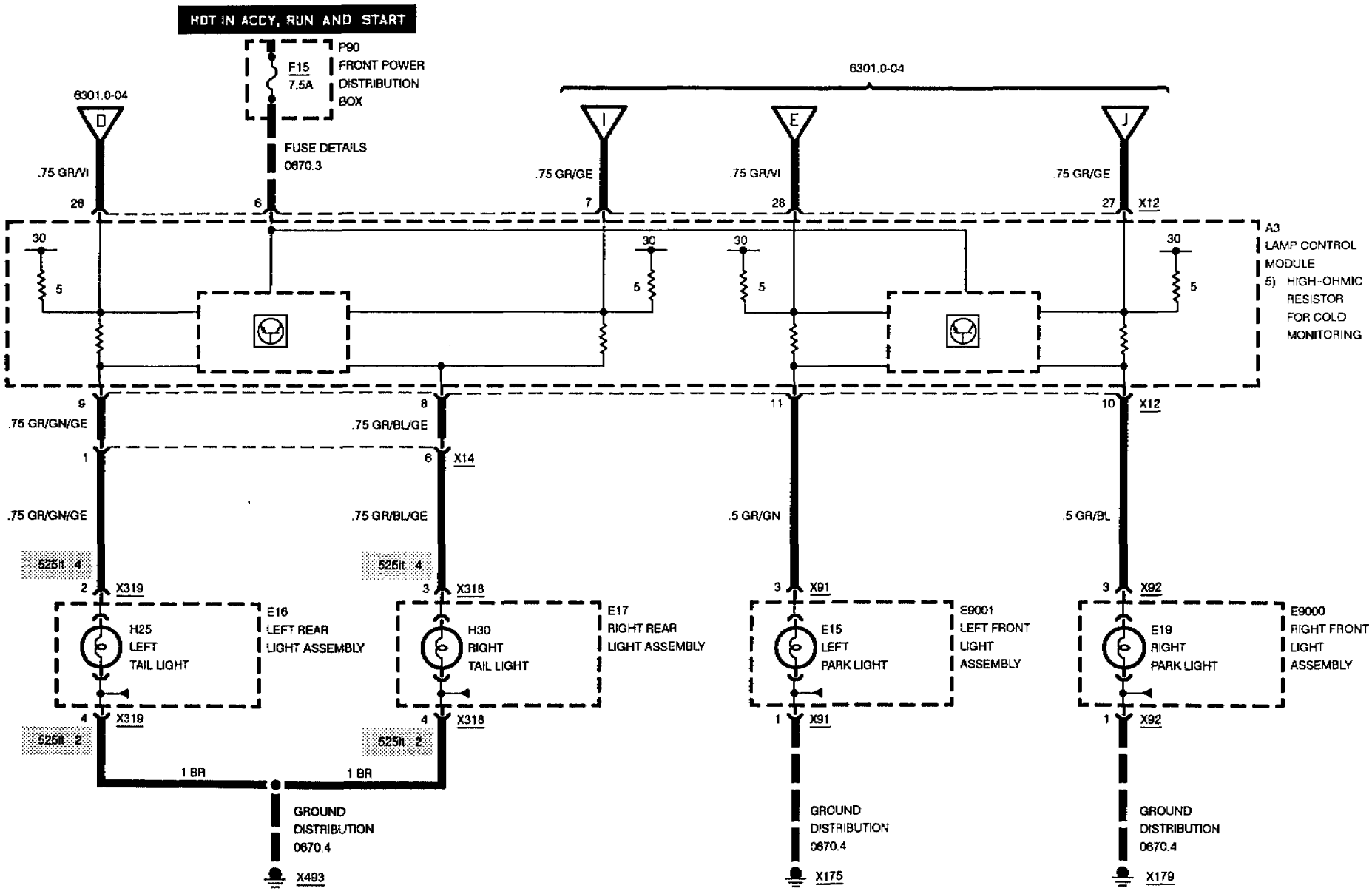
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LAMP MONITOR (LKM)



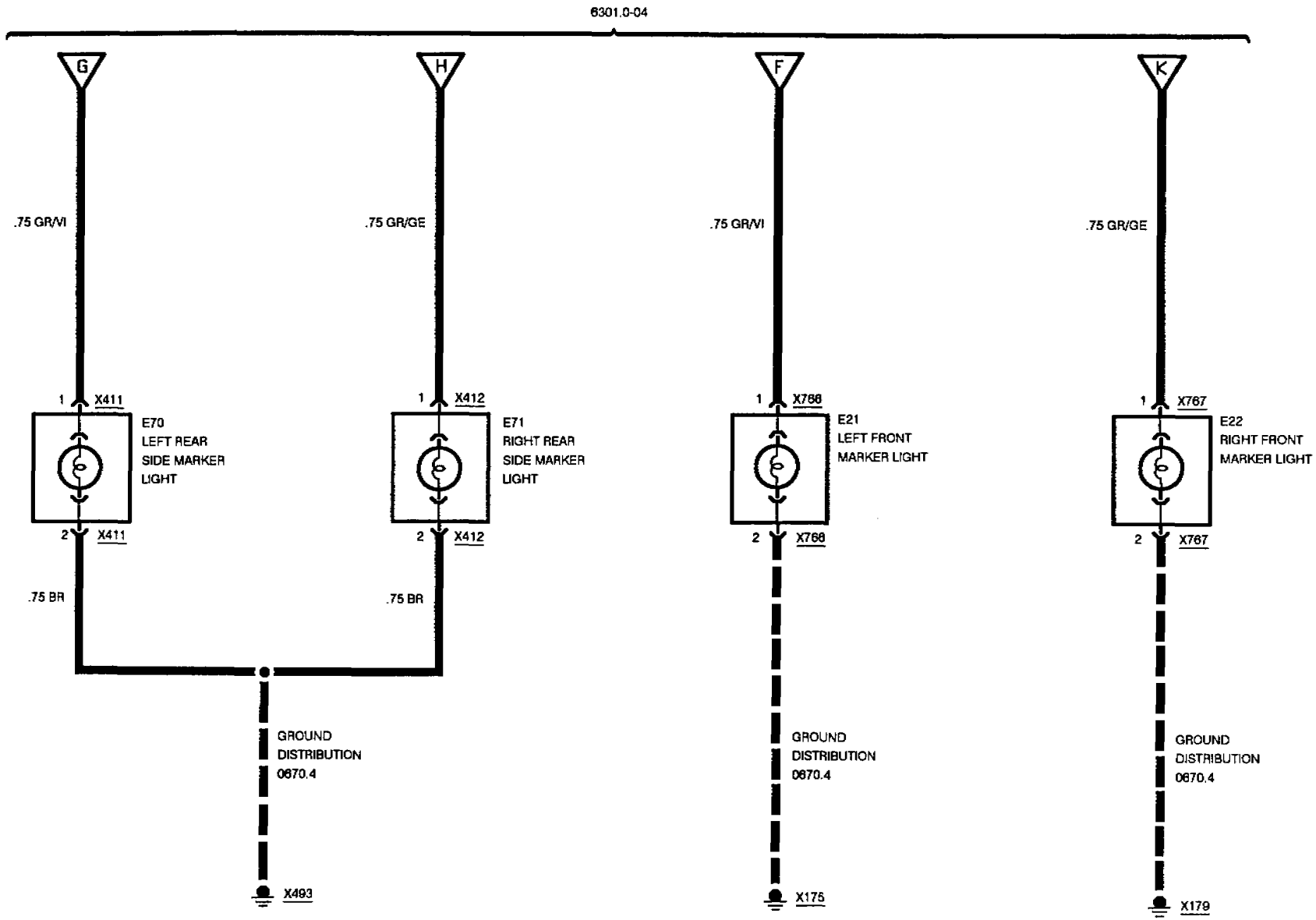
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LAMP MONITOR (LKM)



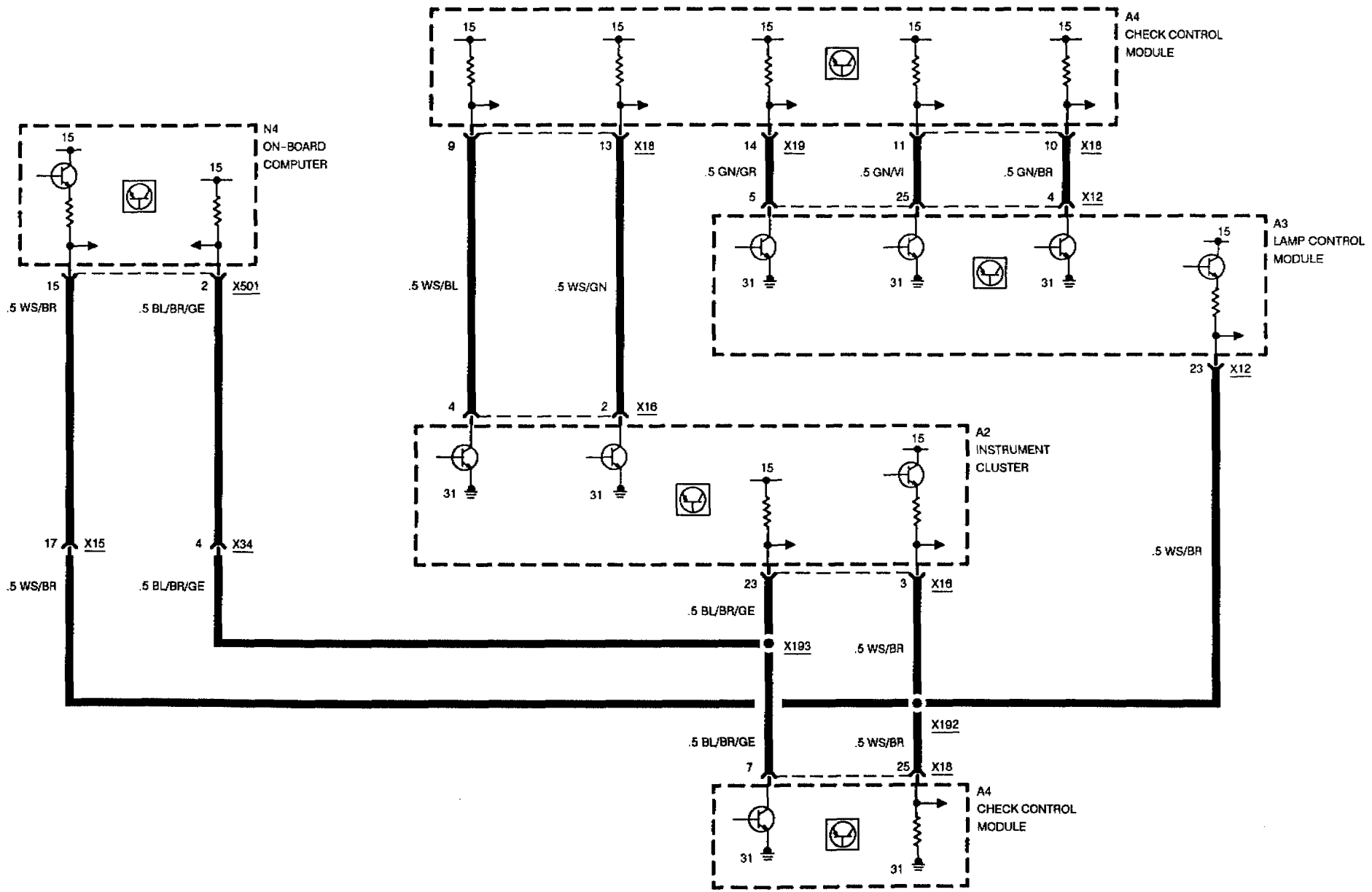
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LAMP MONITOR (LKM)



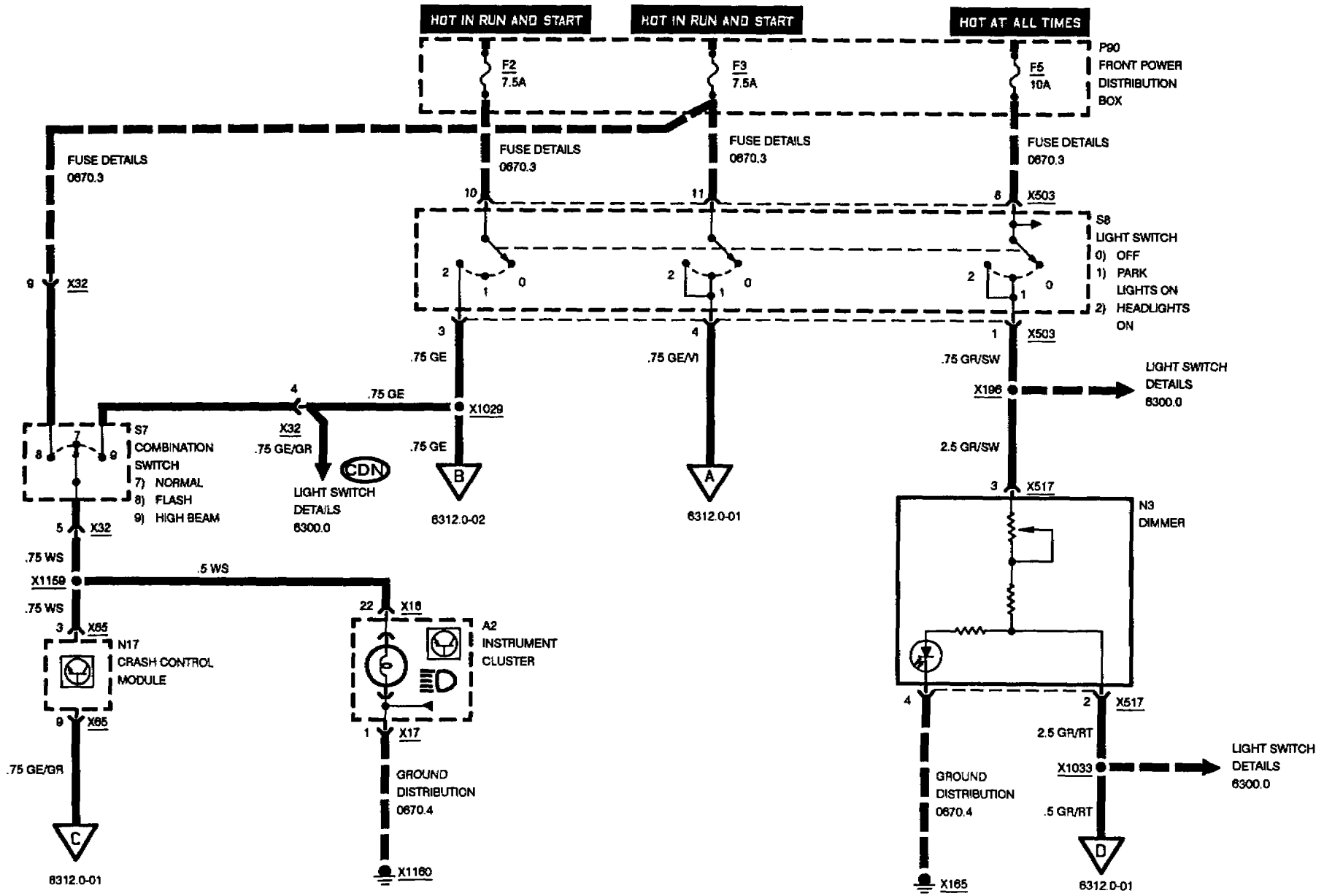
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LAMP MONITOR (LKM)



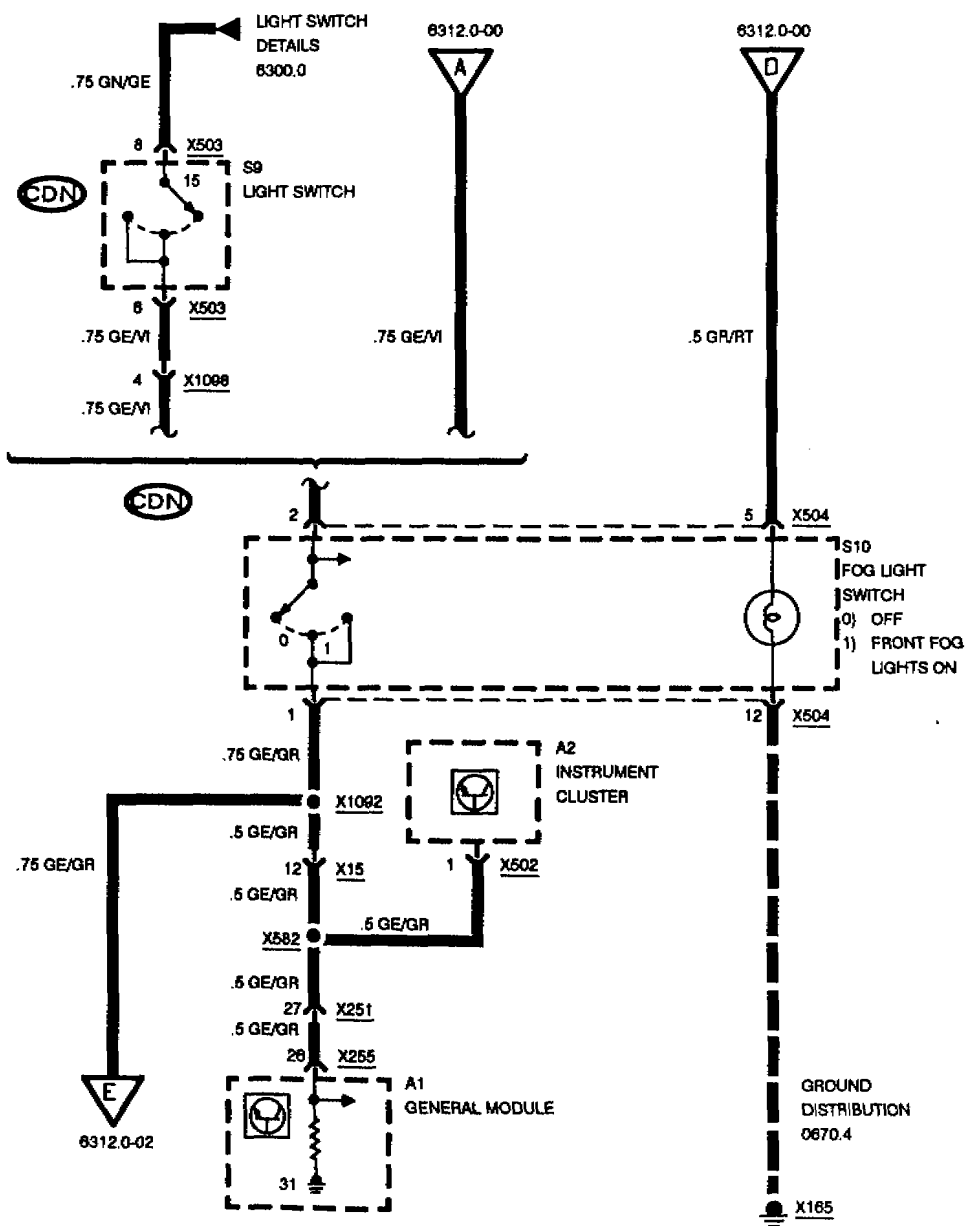
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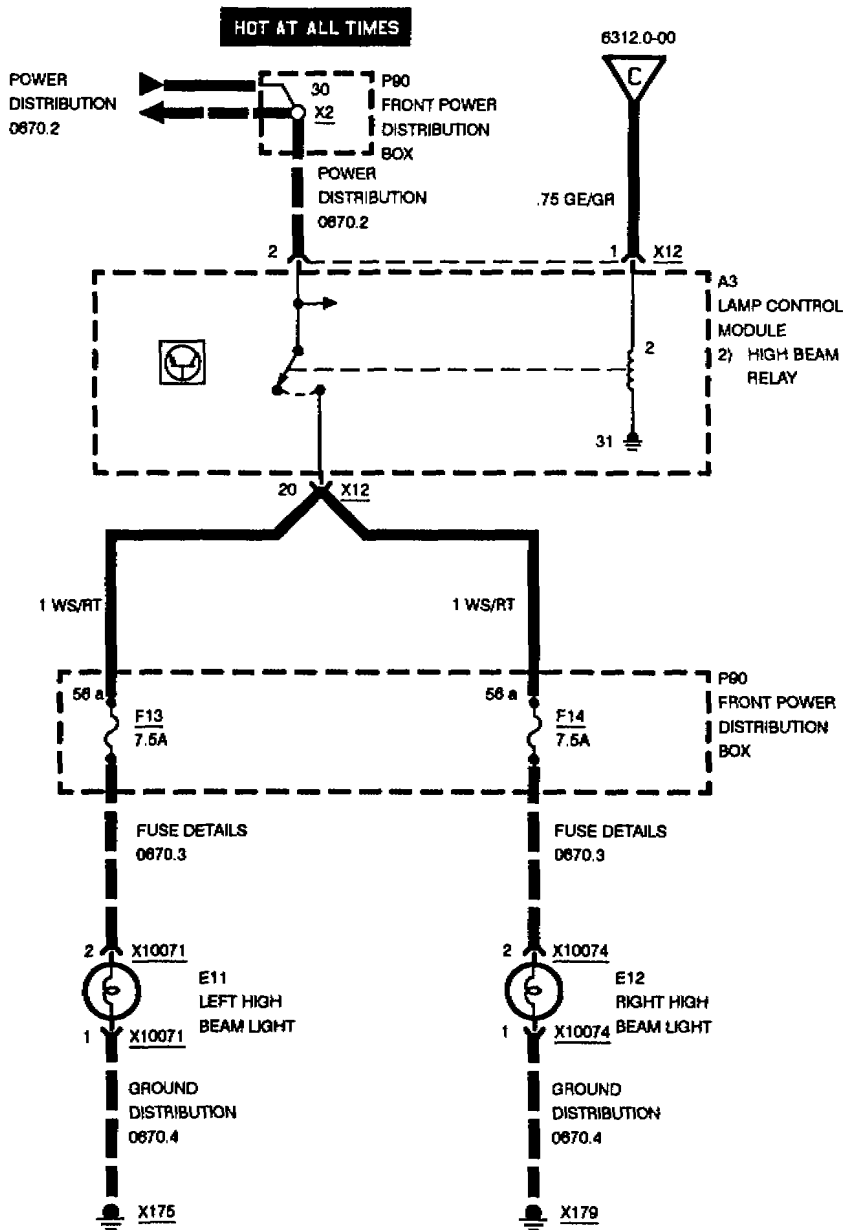
HEADLIGHTS/ FOG LIGHTS



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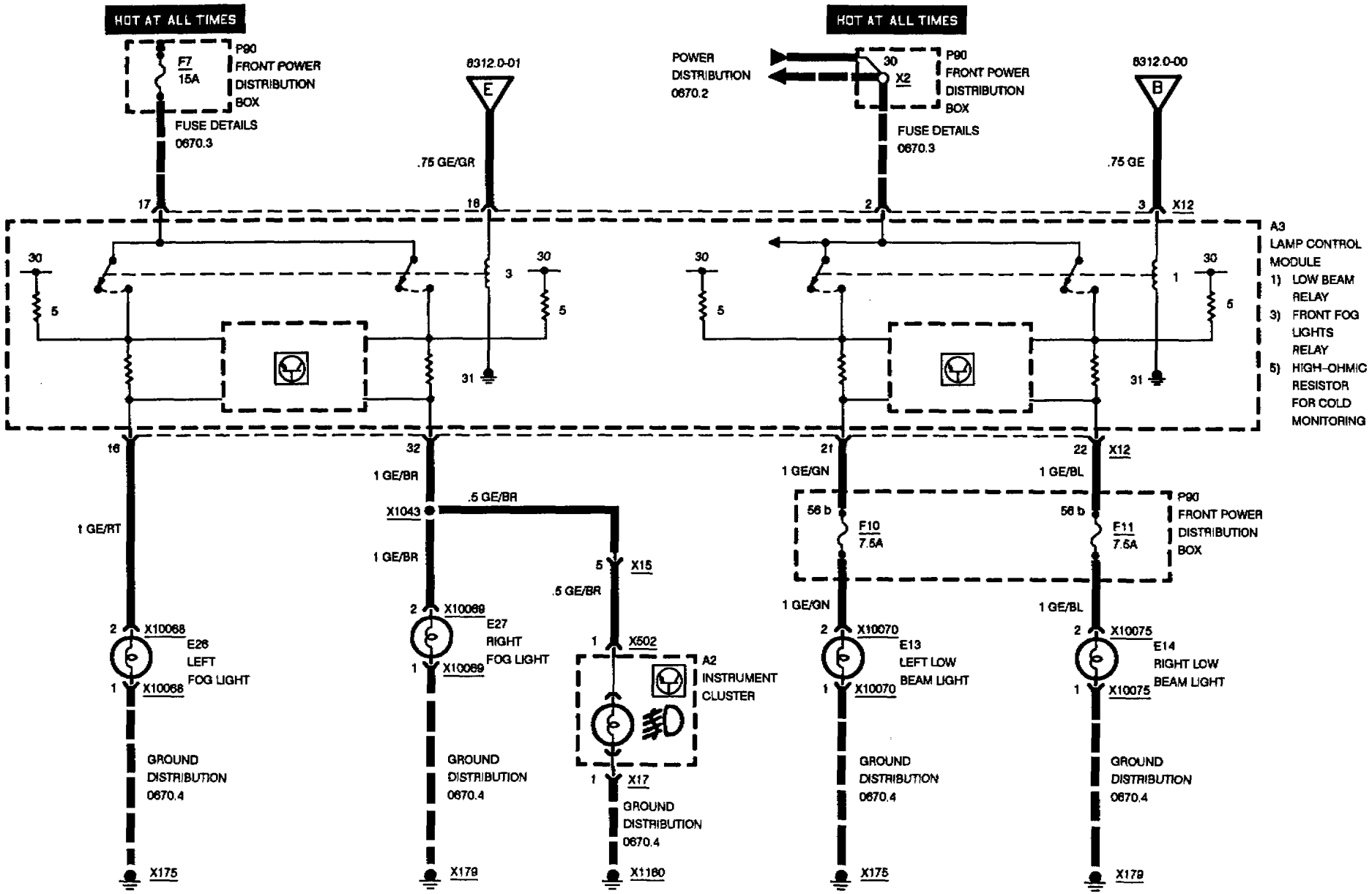
HEADLIGHTS/ FOG LIGHTS





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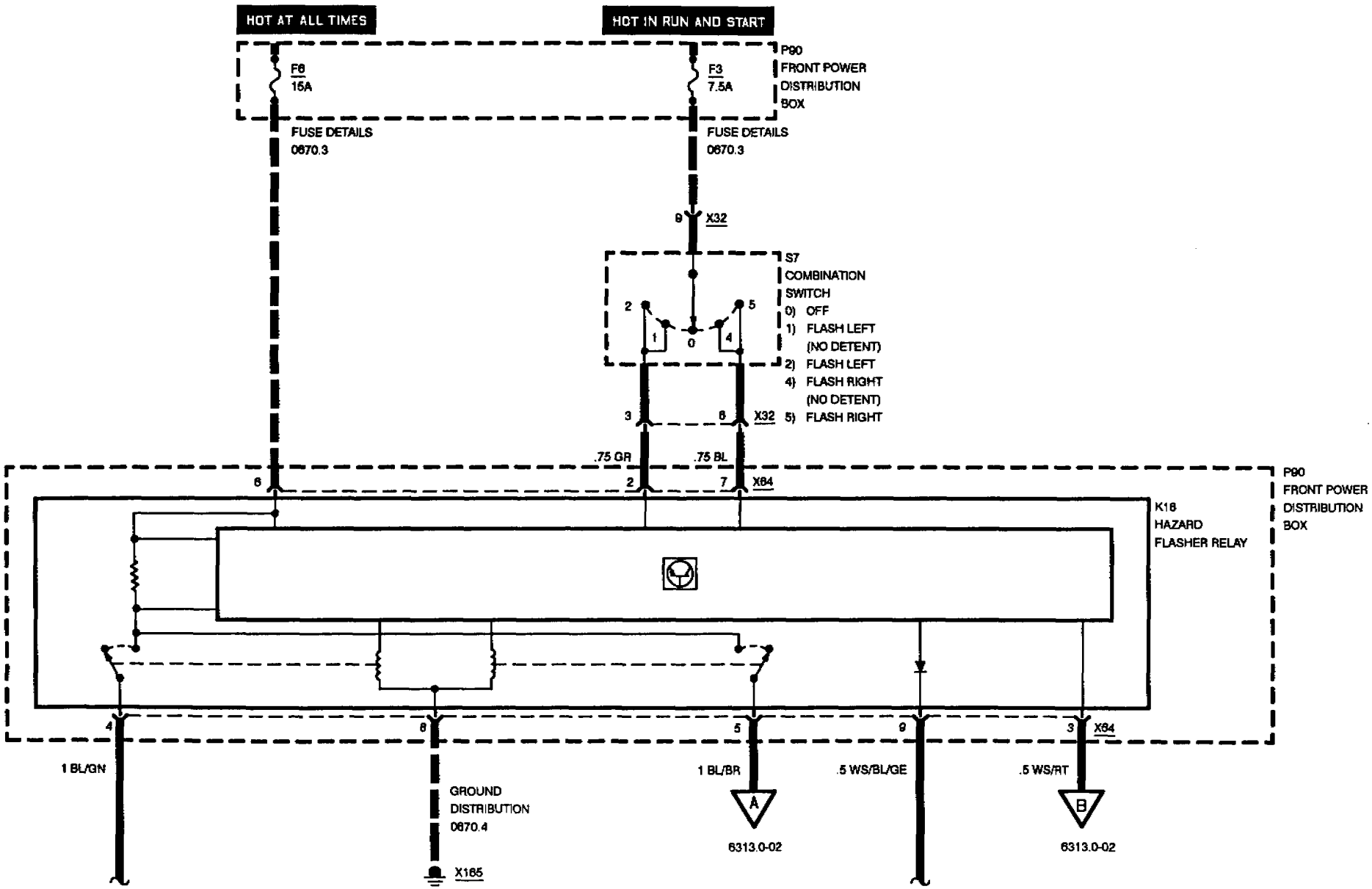
HEADLIGHTS/ FOG LIGHTS



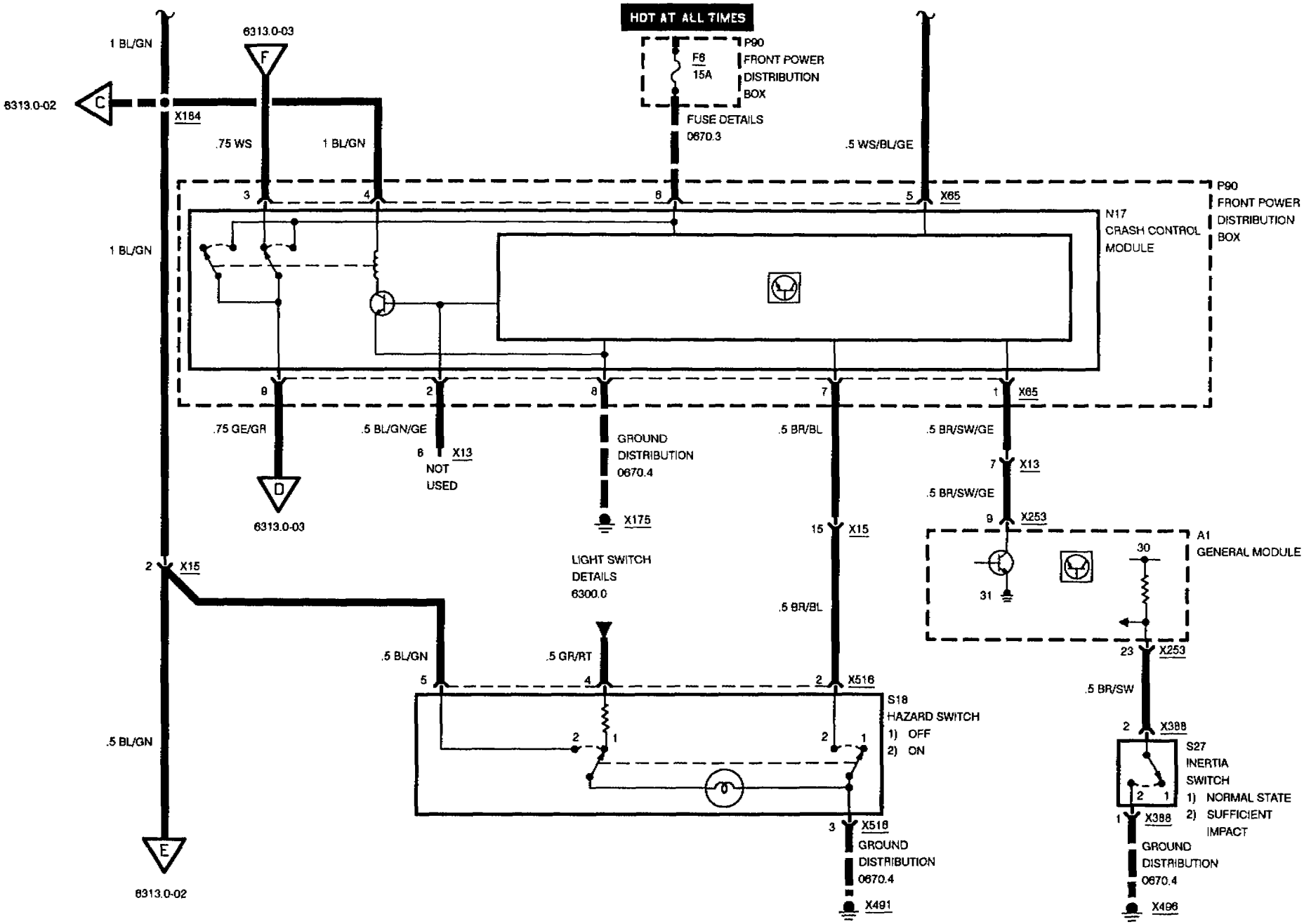
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TURN/HAZARD LIGHTS

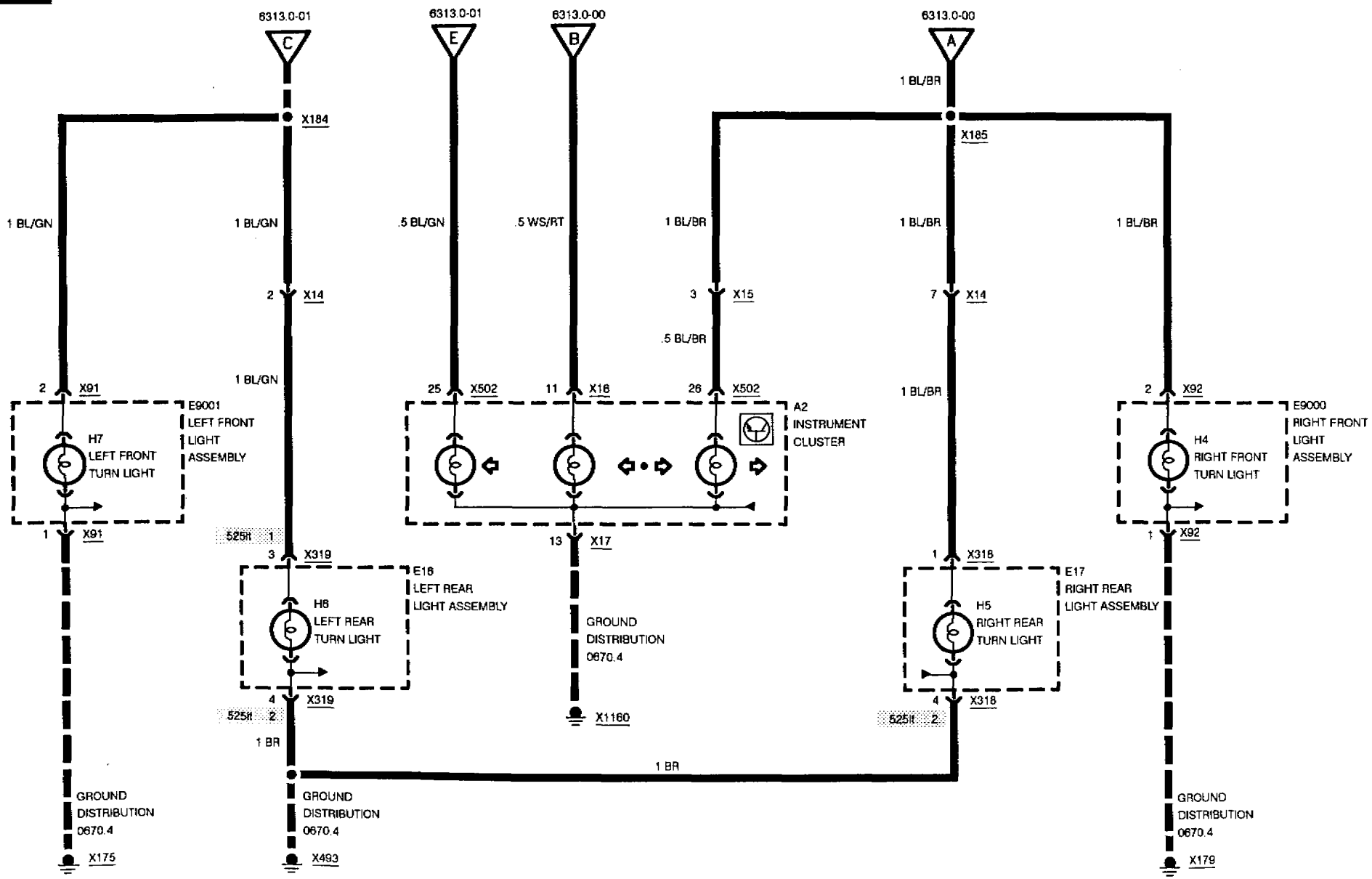


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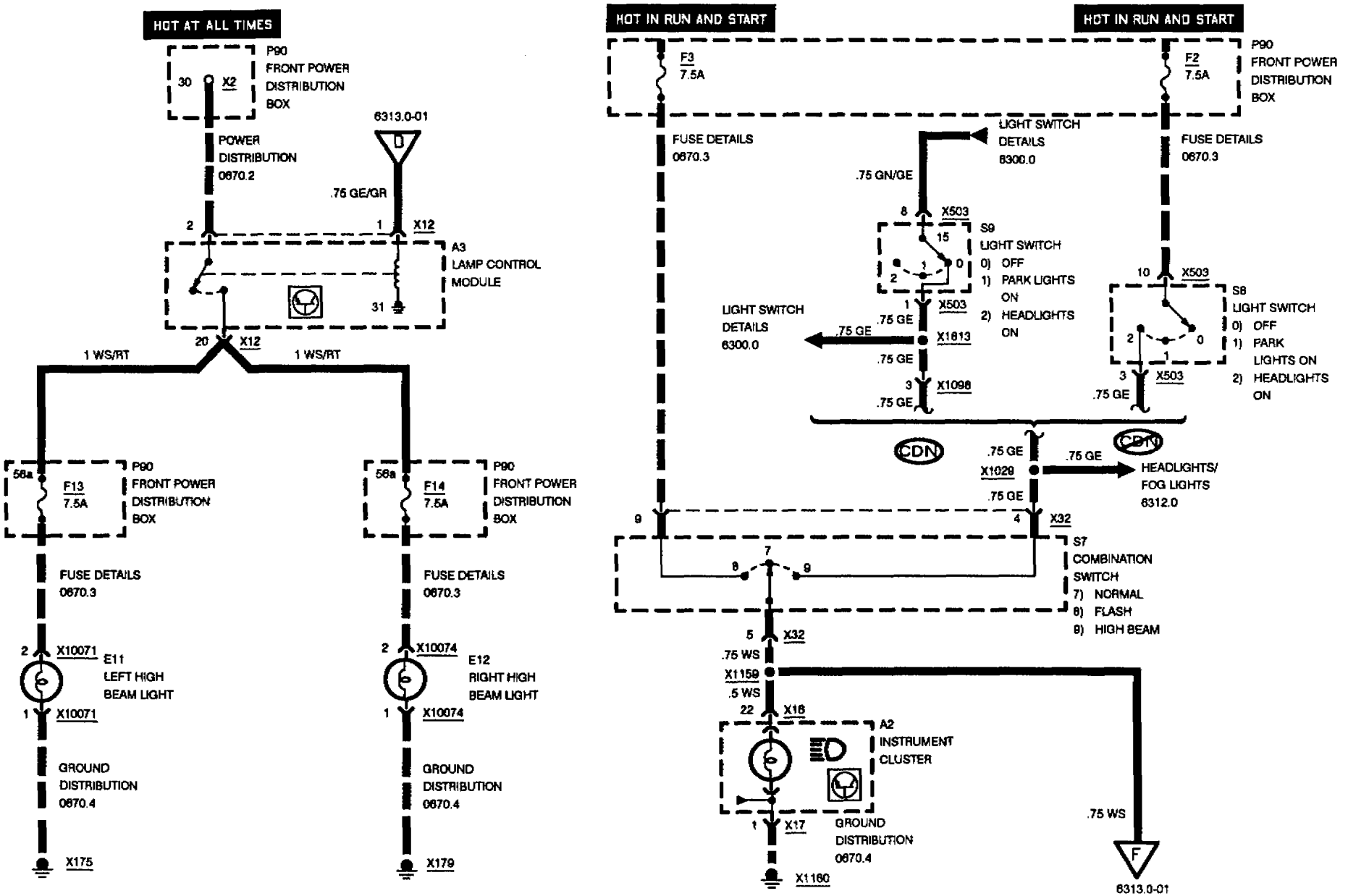
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TURN/HAZARD LIGHTS



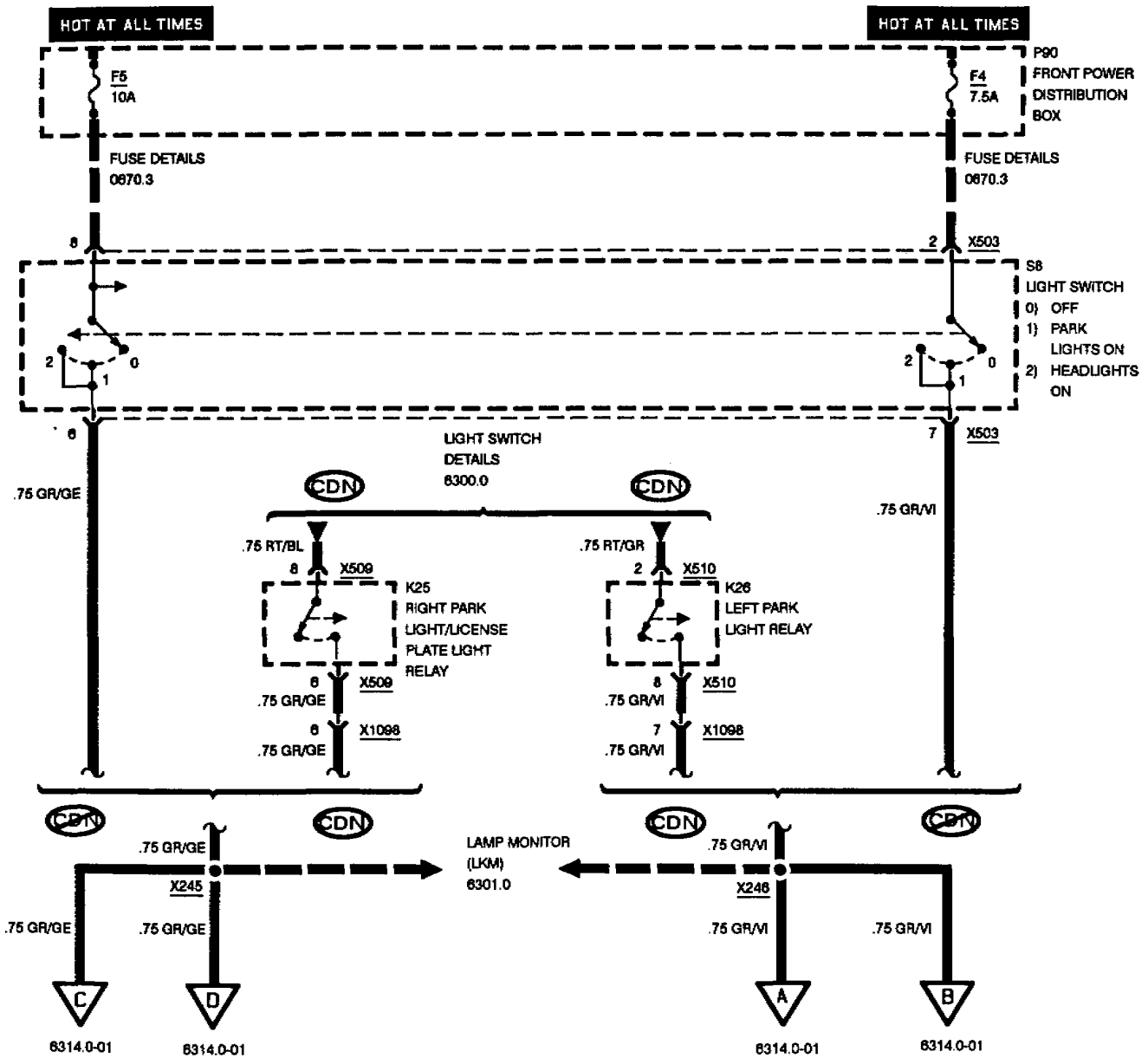
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TURN/HAZARD LIGHTS



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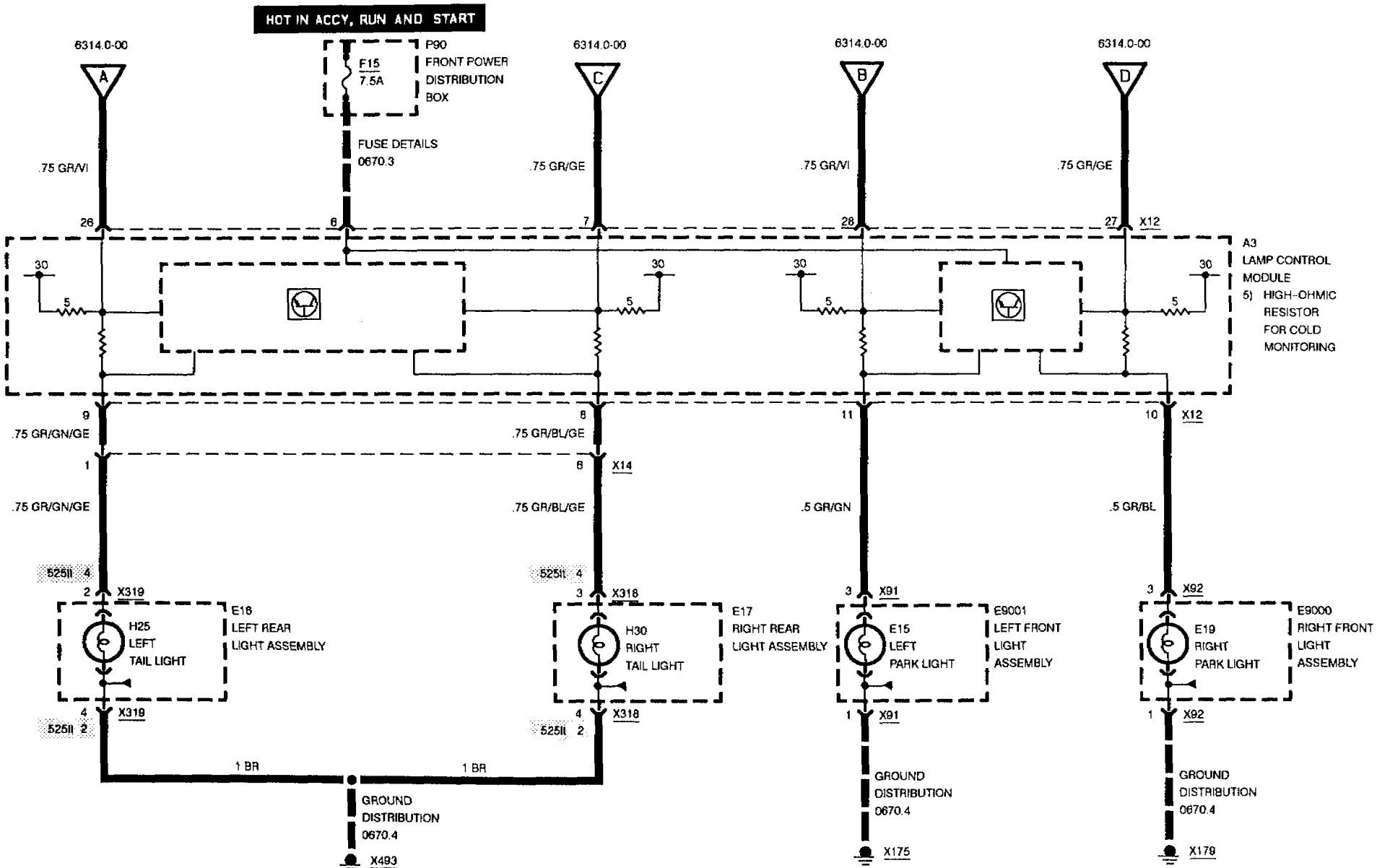
PARK/TAIL LIGHTS



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PARK/TAIL LIGHTS

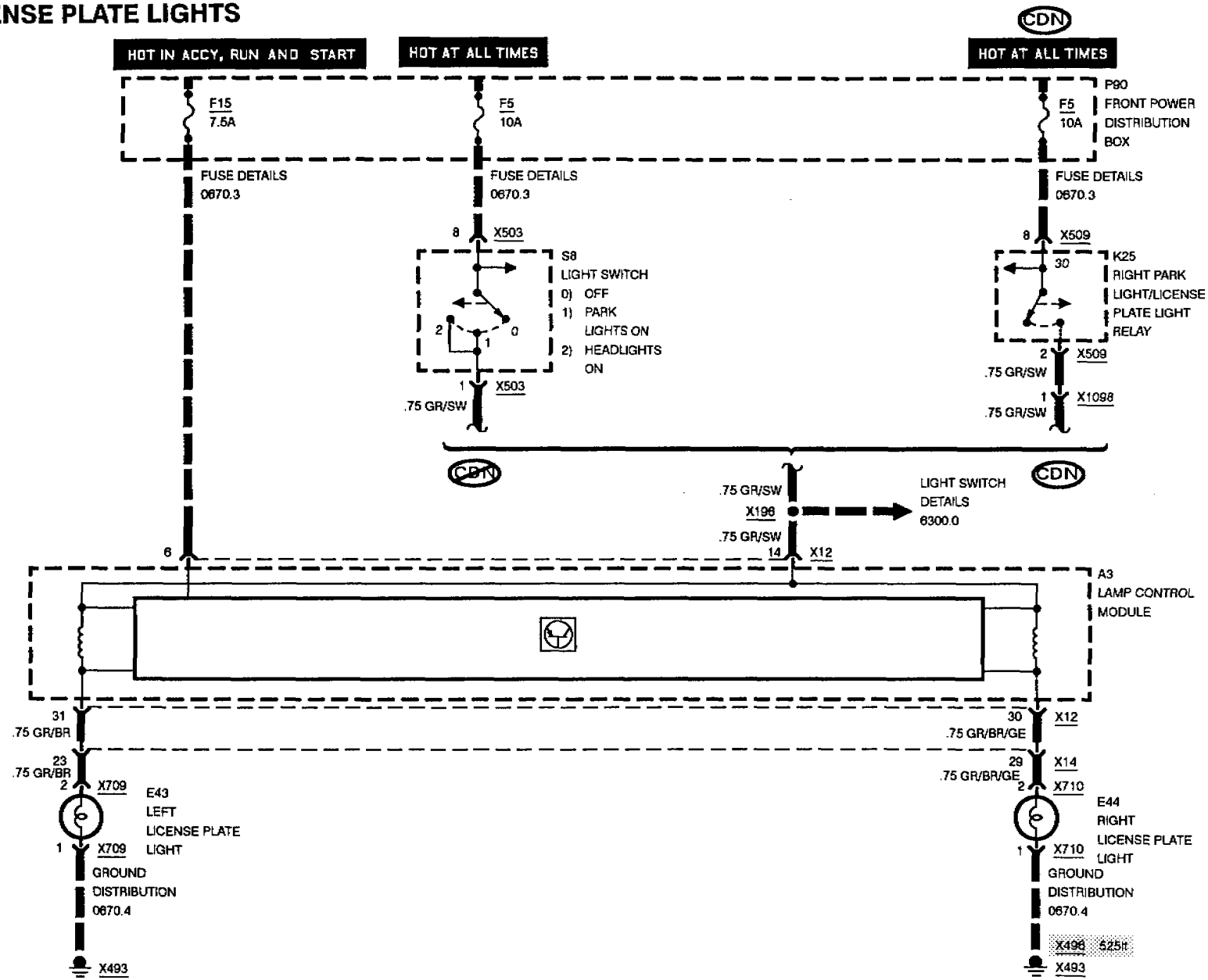
FRONT AND REAR PARK LIGHTS



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LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

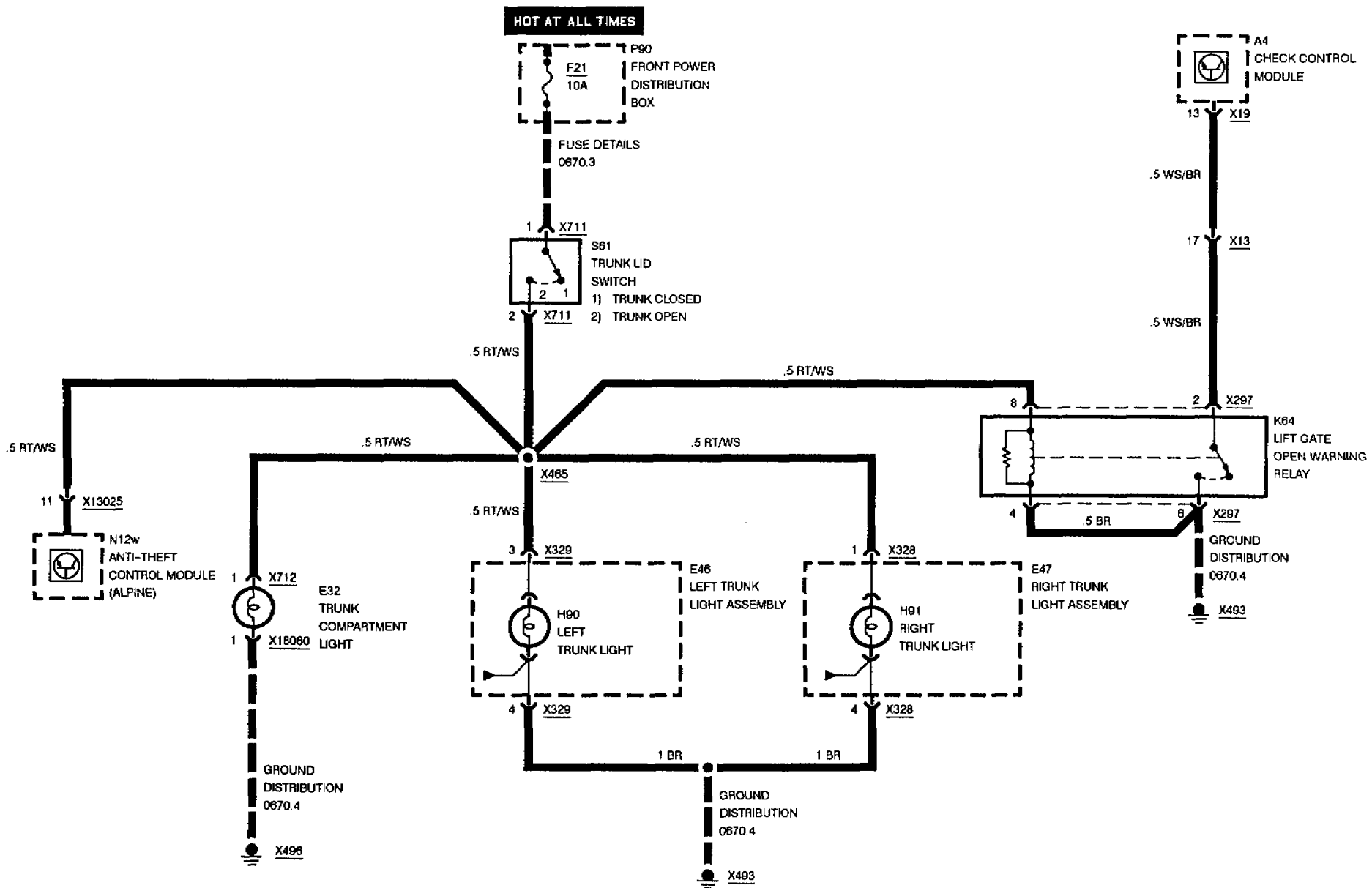
LICENSE PLATE LIGHTS



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LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

TRUNK LIGHTS

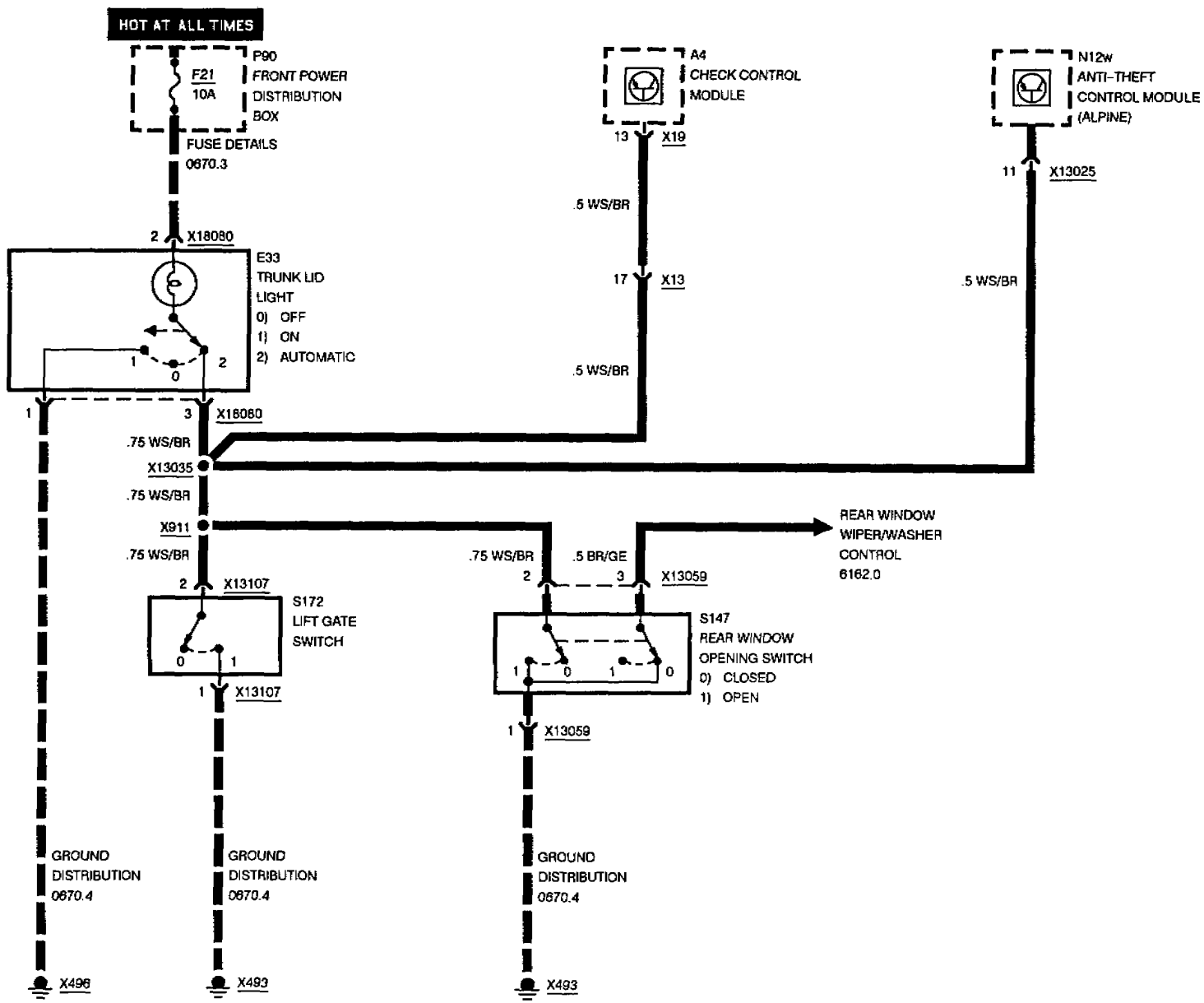


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LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

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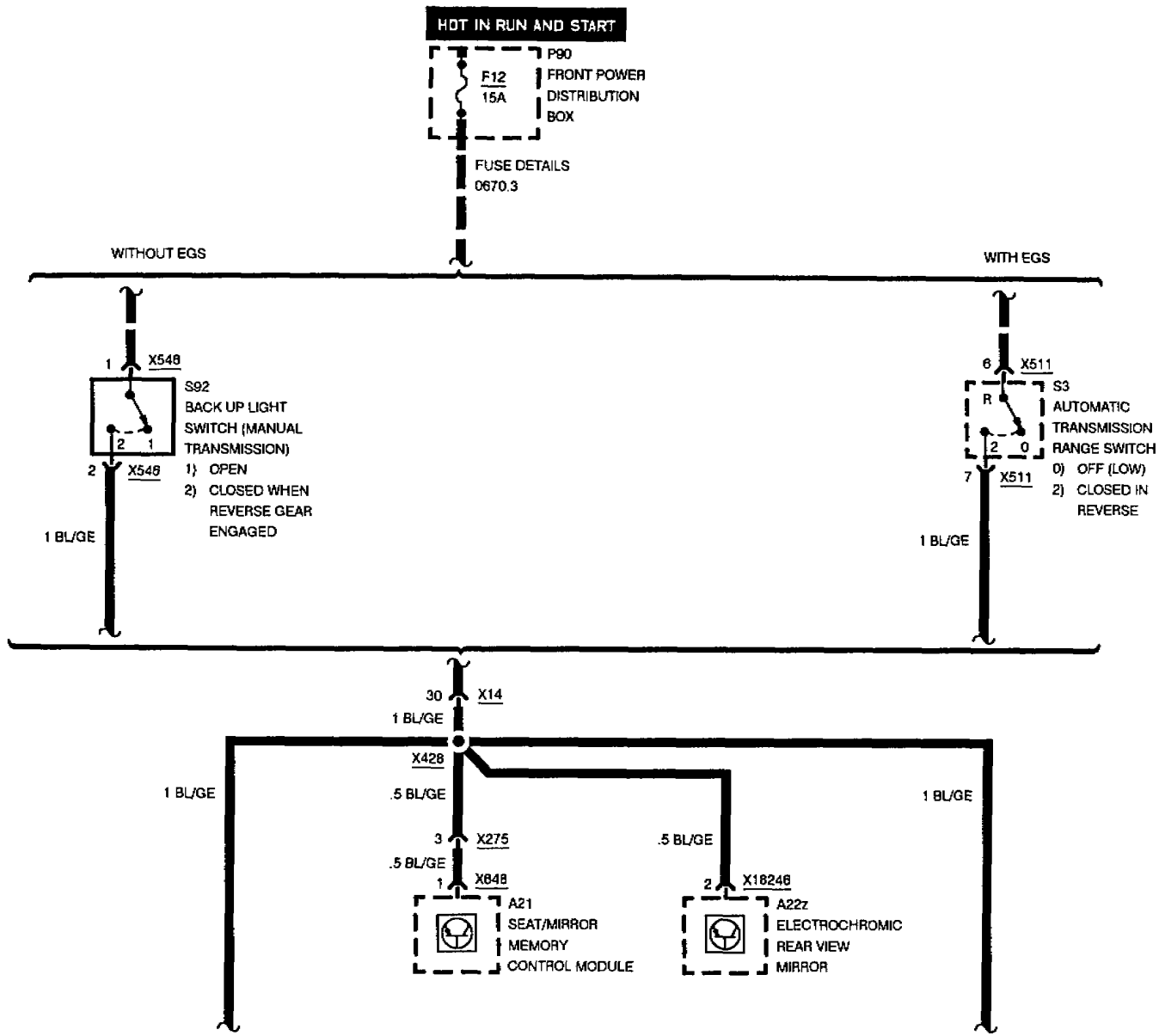
TRUNK LIGHTS



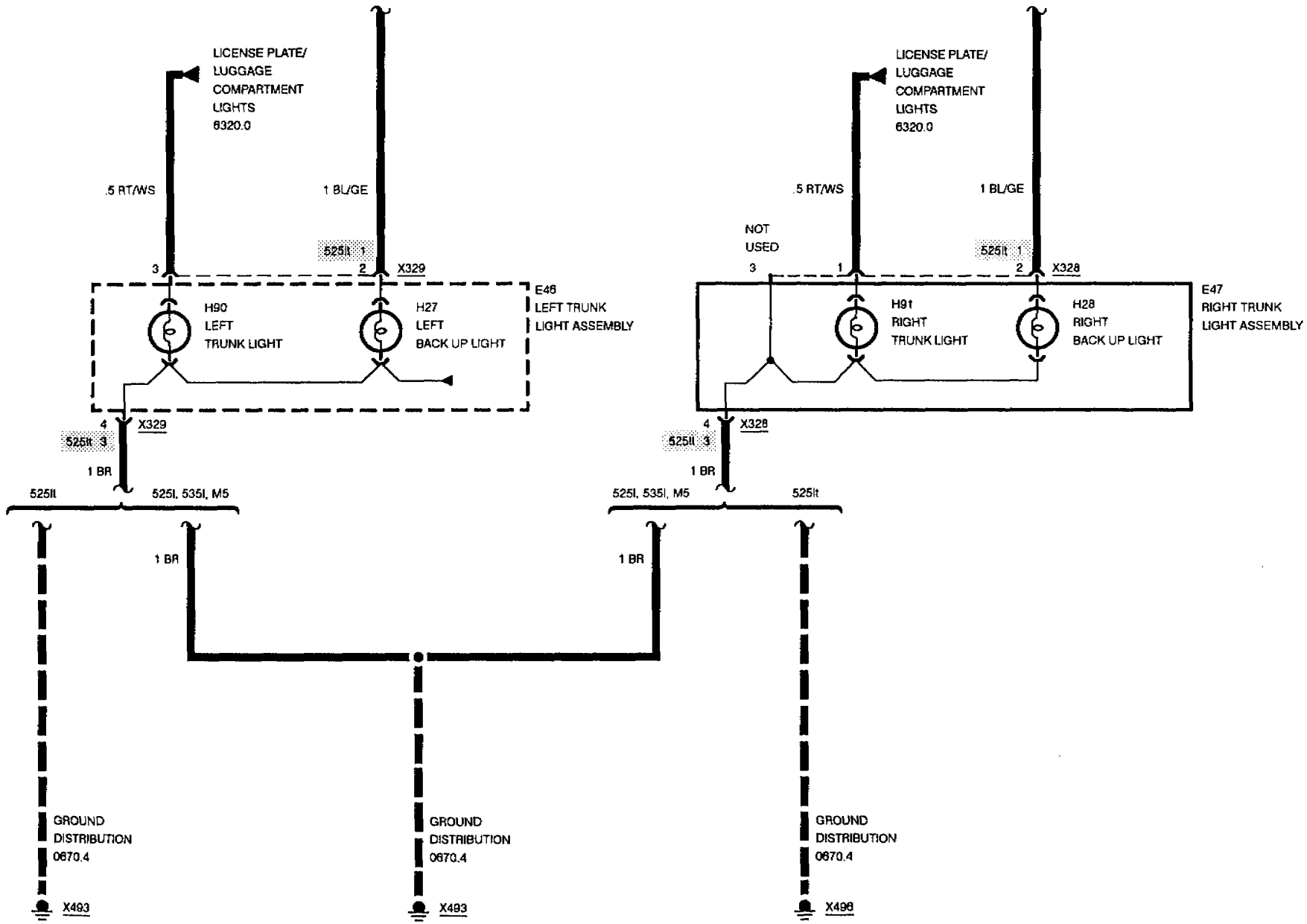
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BACK UP LIGHTS

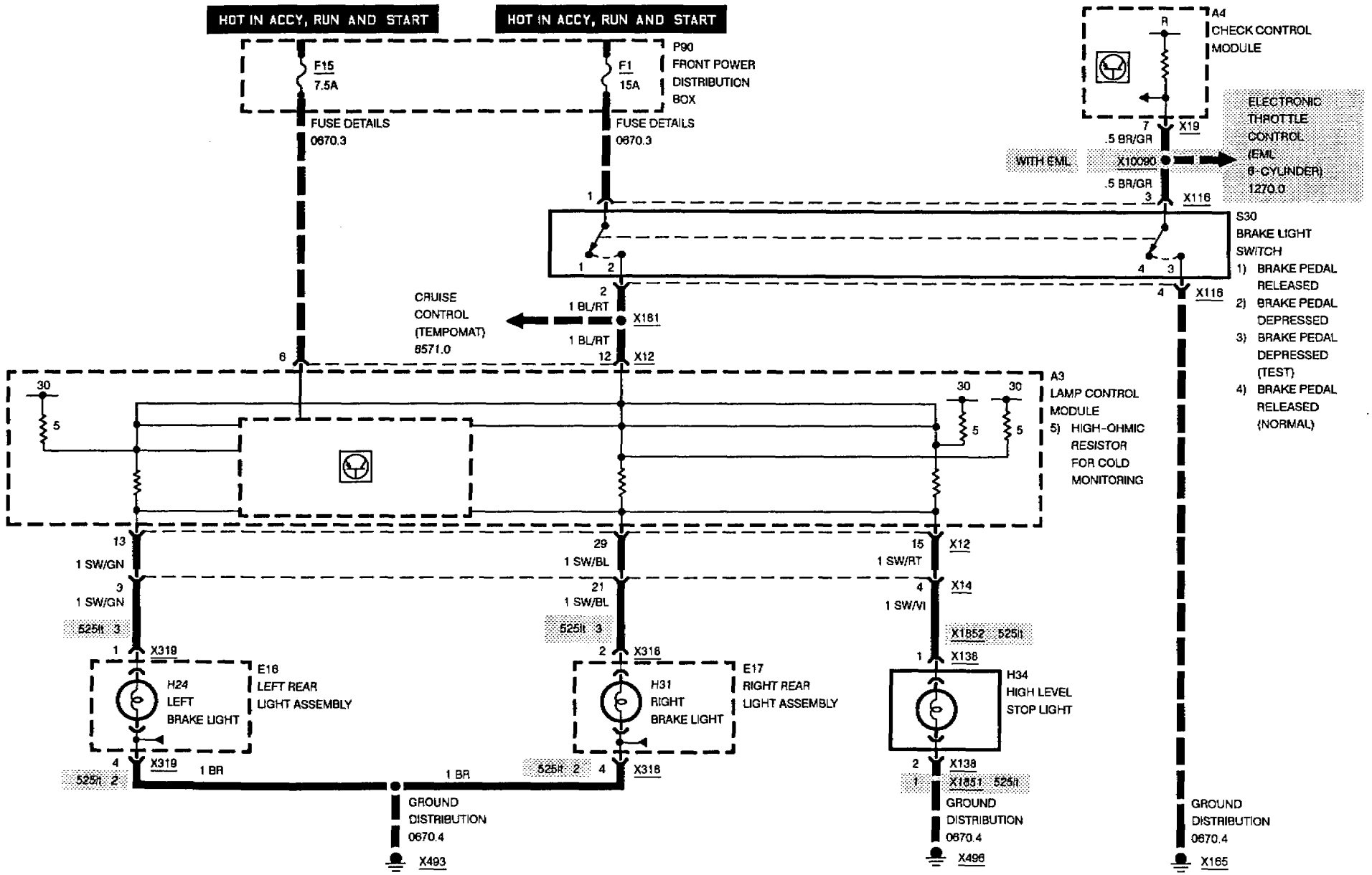


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BRAKE LIGHTS

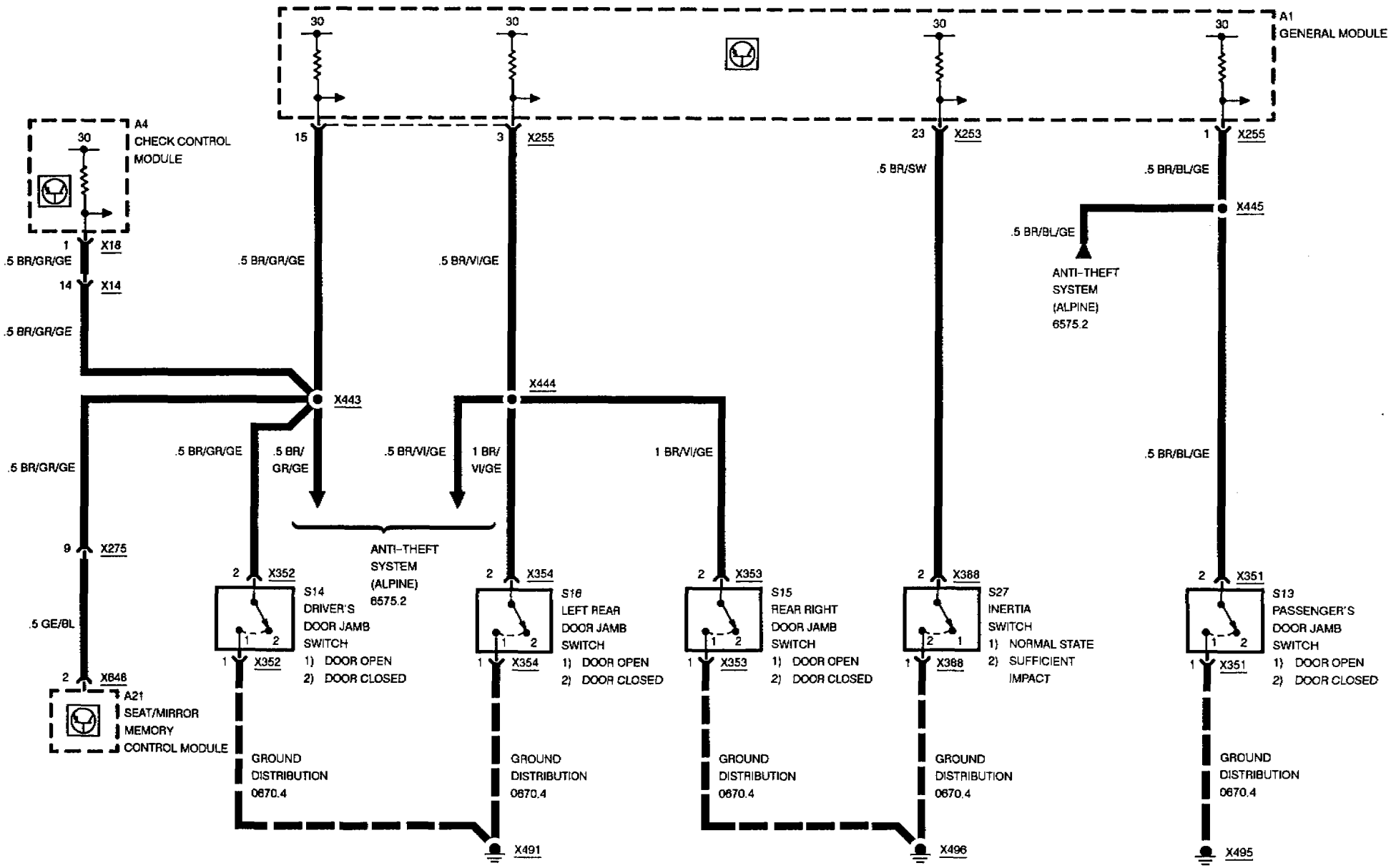


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ZKE INTERIOR LIGHTS CONTROL (IB)

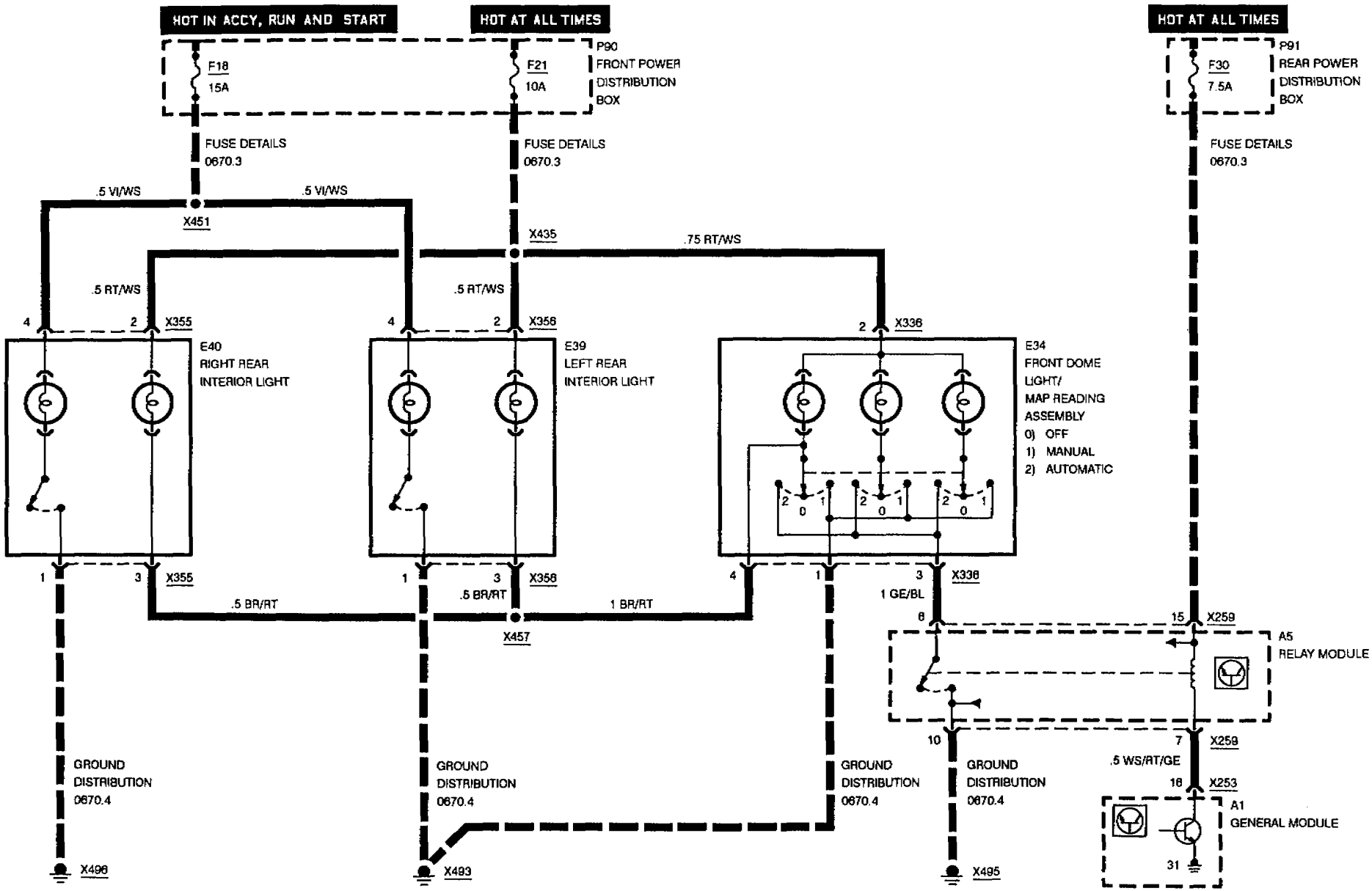
INPUT DETAILS



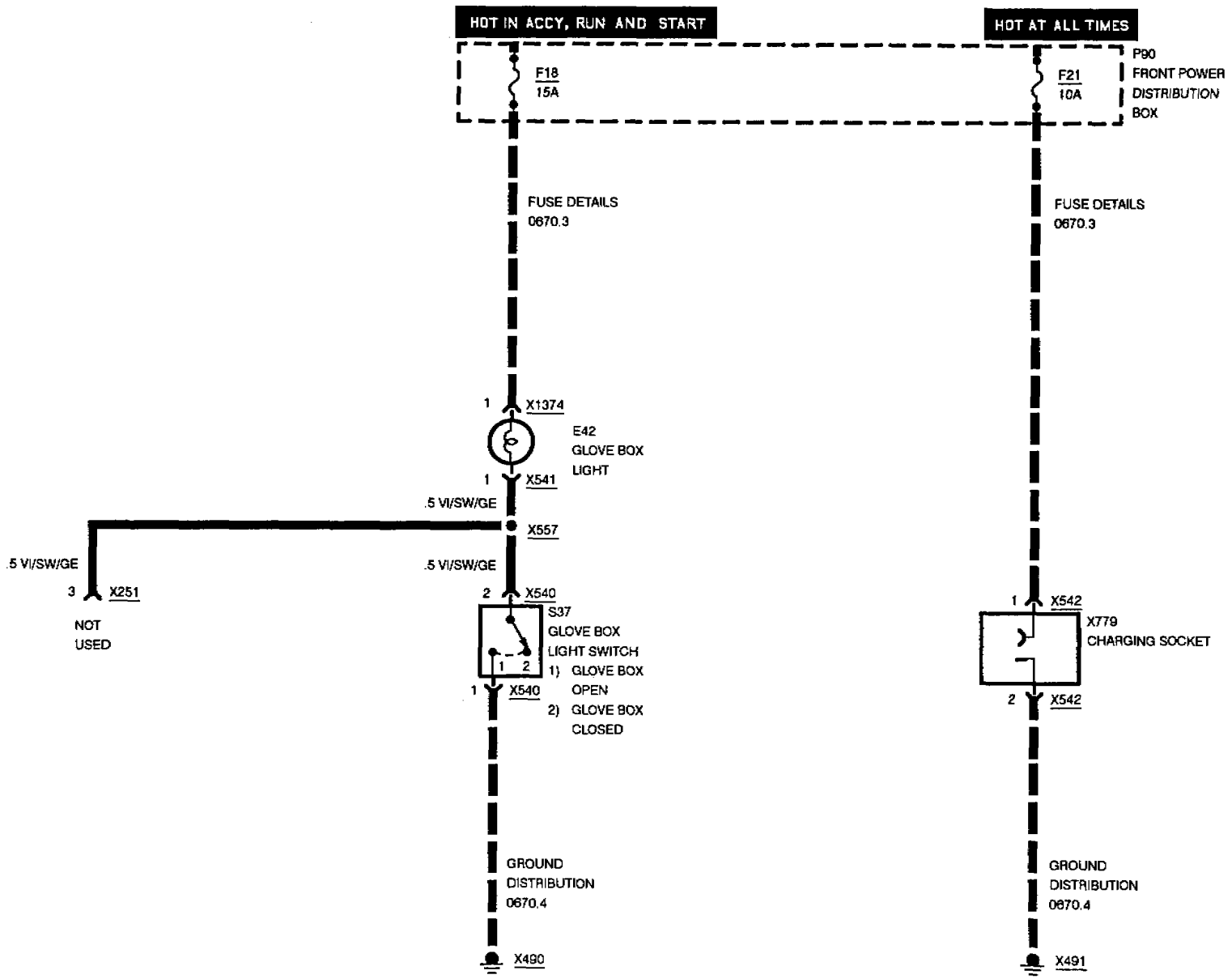
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ZKE INTERIOR LIGHTS CONTROL (IB)

OUTPUT DETAILS

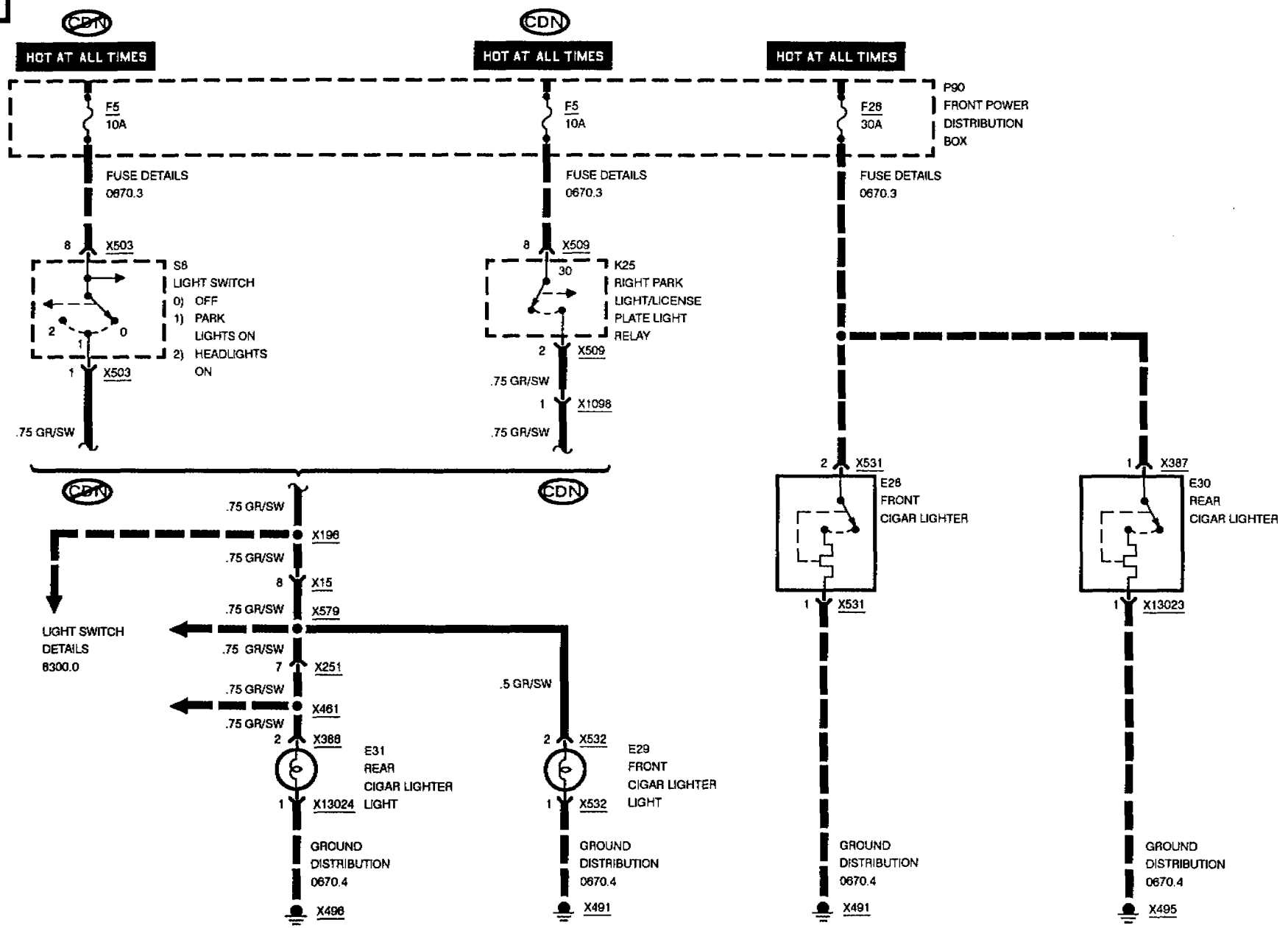


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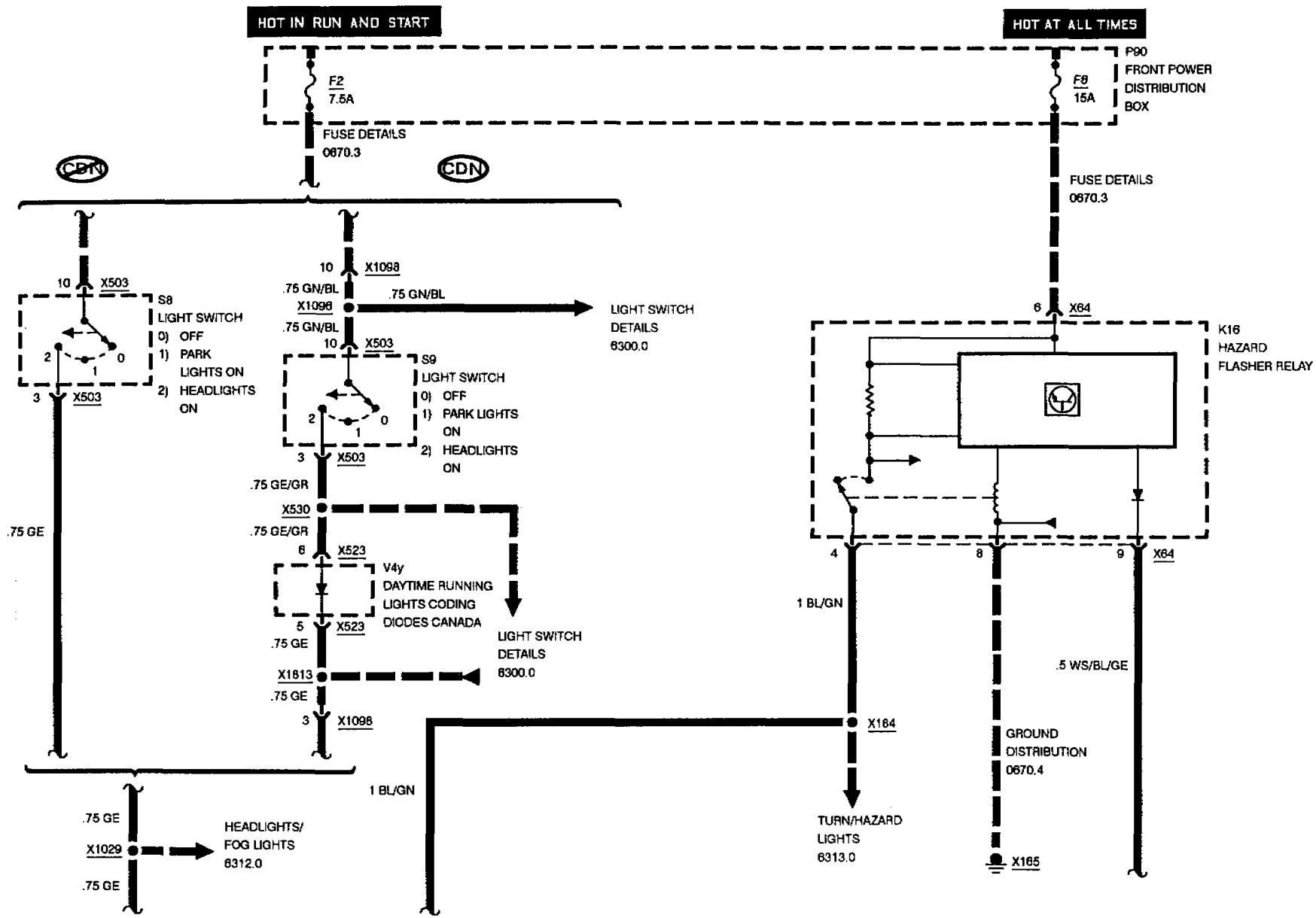
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INTERIOR ACCESSORIES

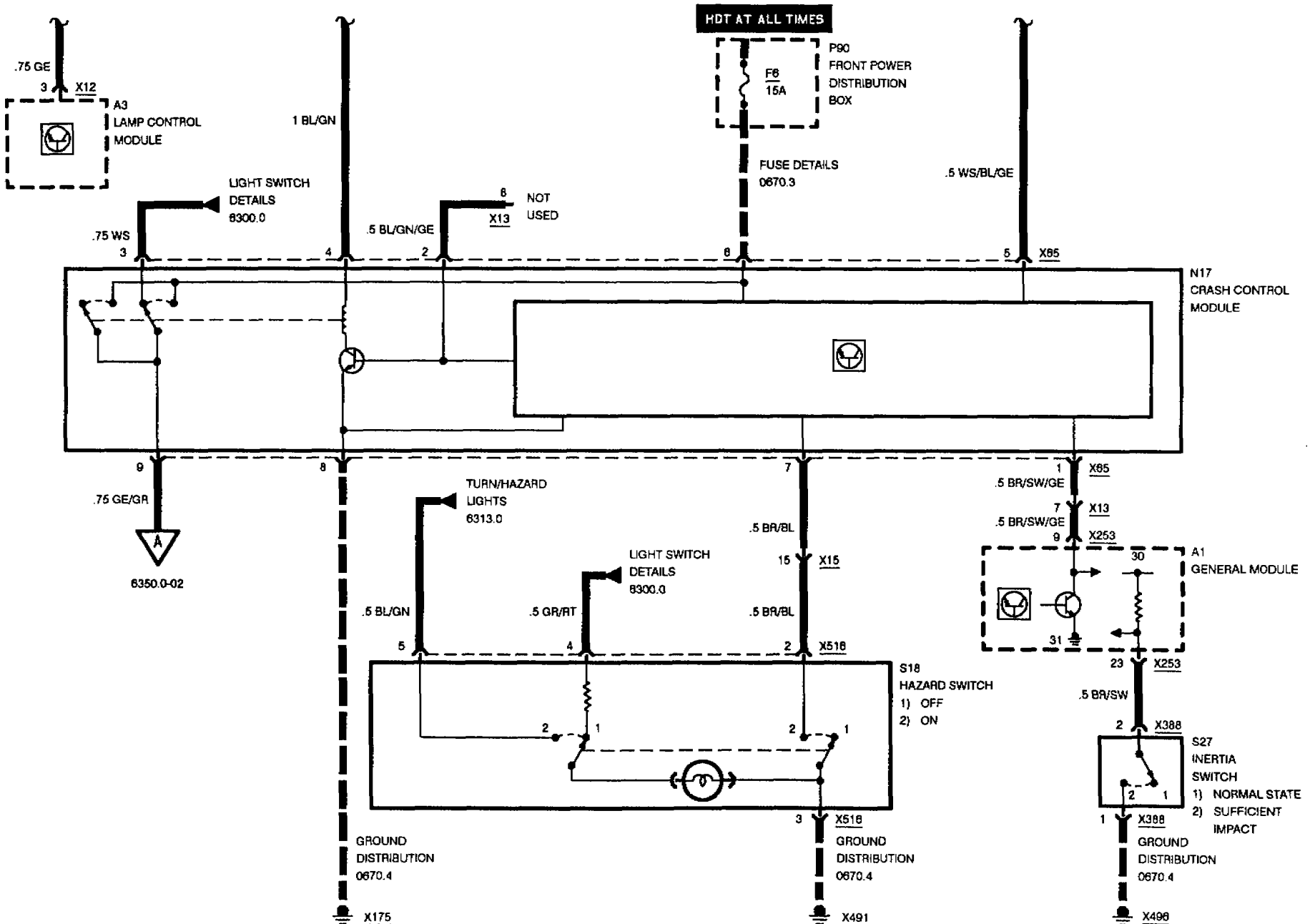


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CRASH CONTROL MODULE

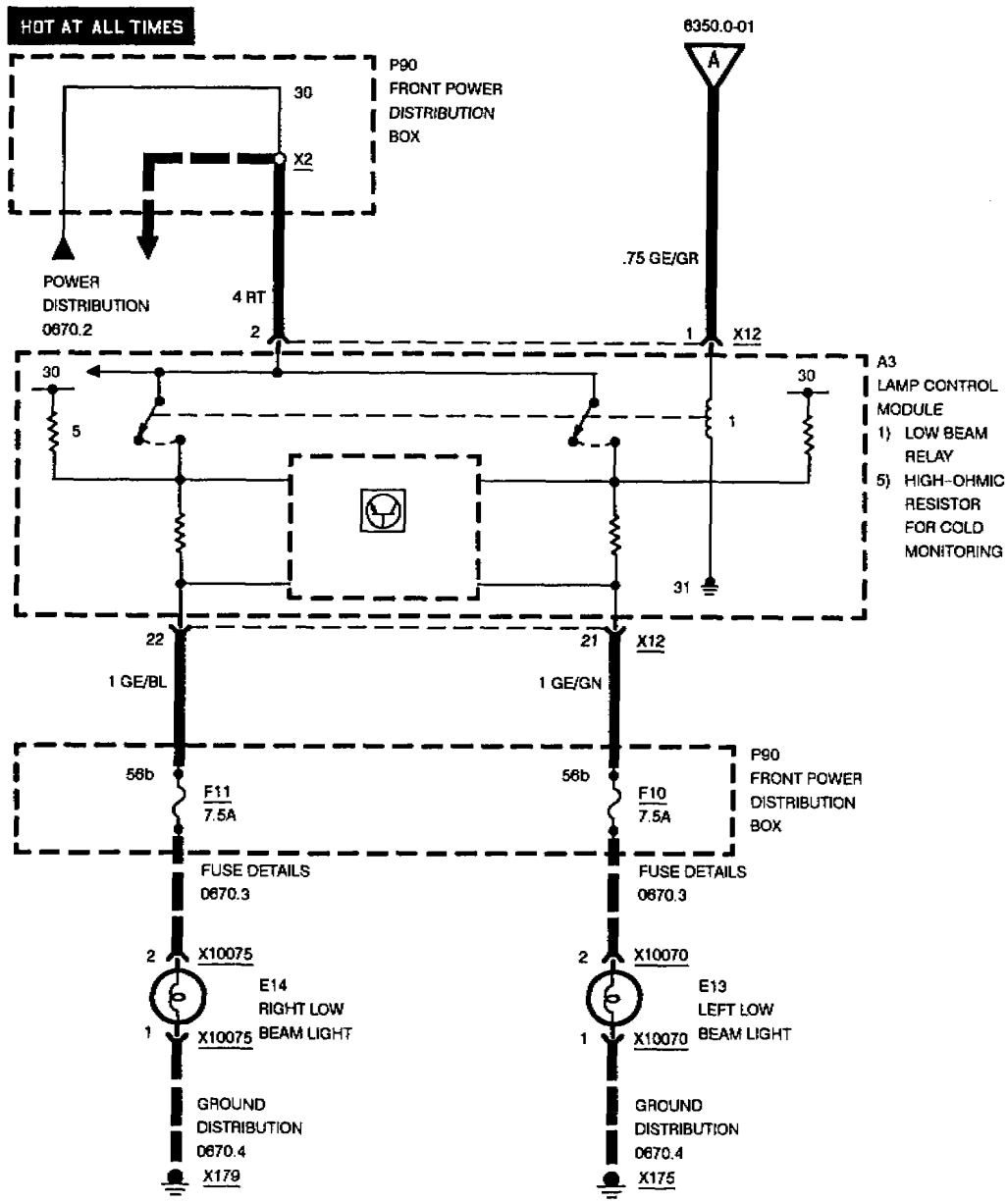


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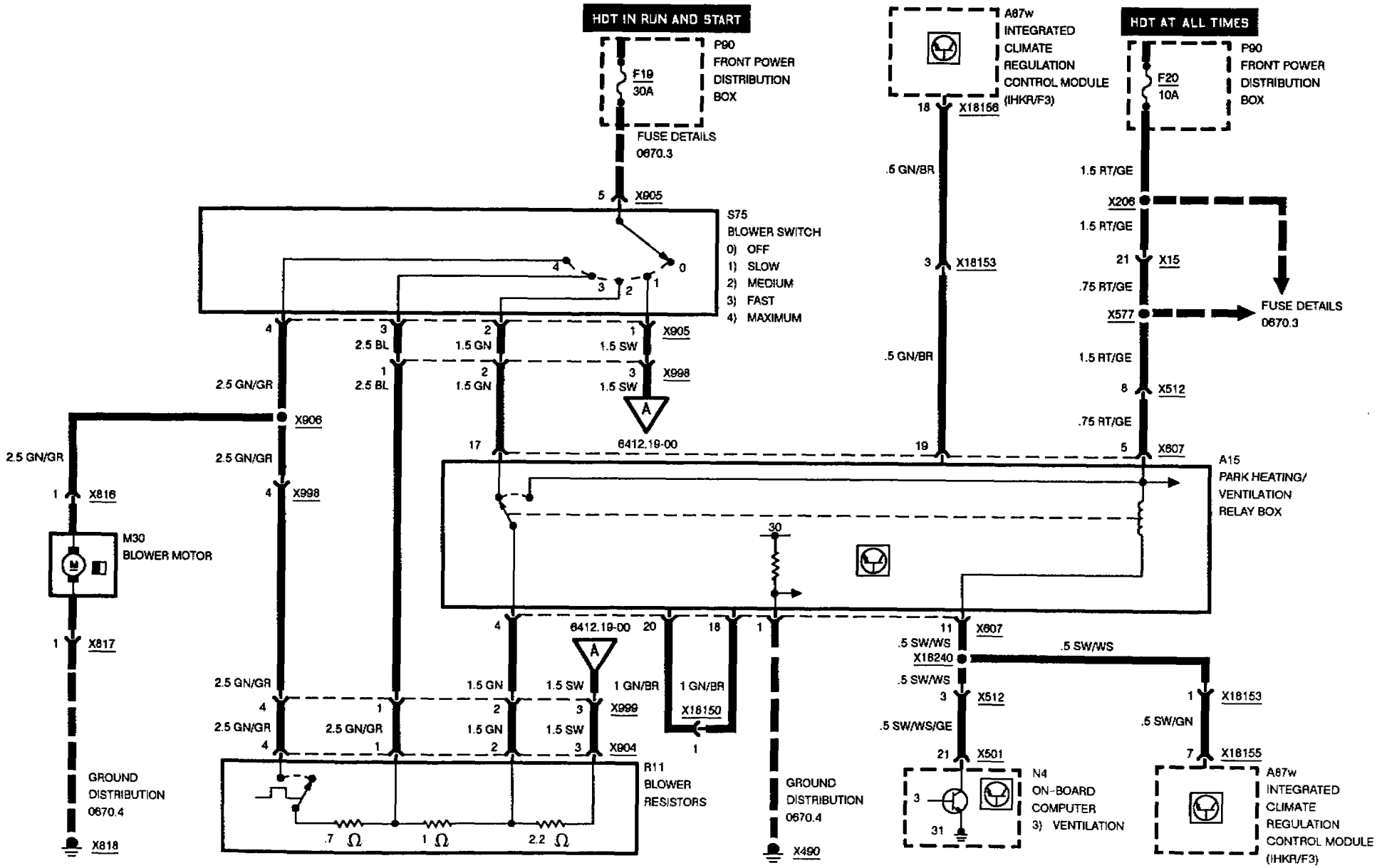
CRASH CONTROL MODULE



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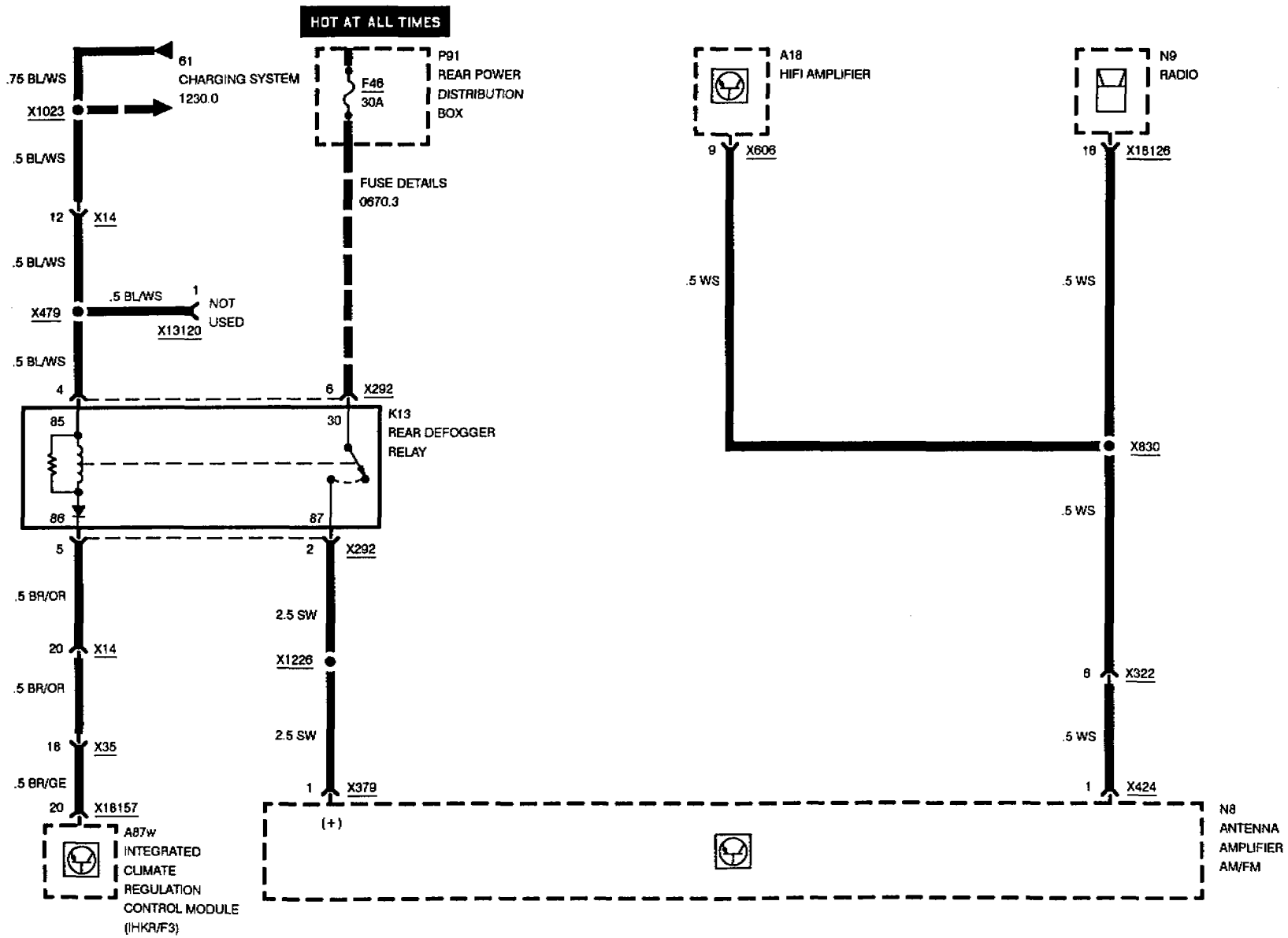
PARK VENTILATION WITH IHKR/F3



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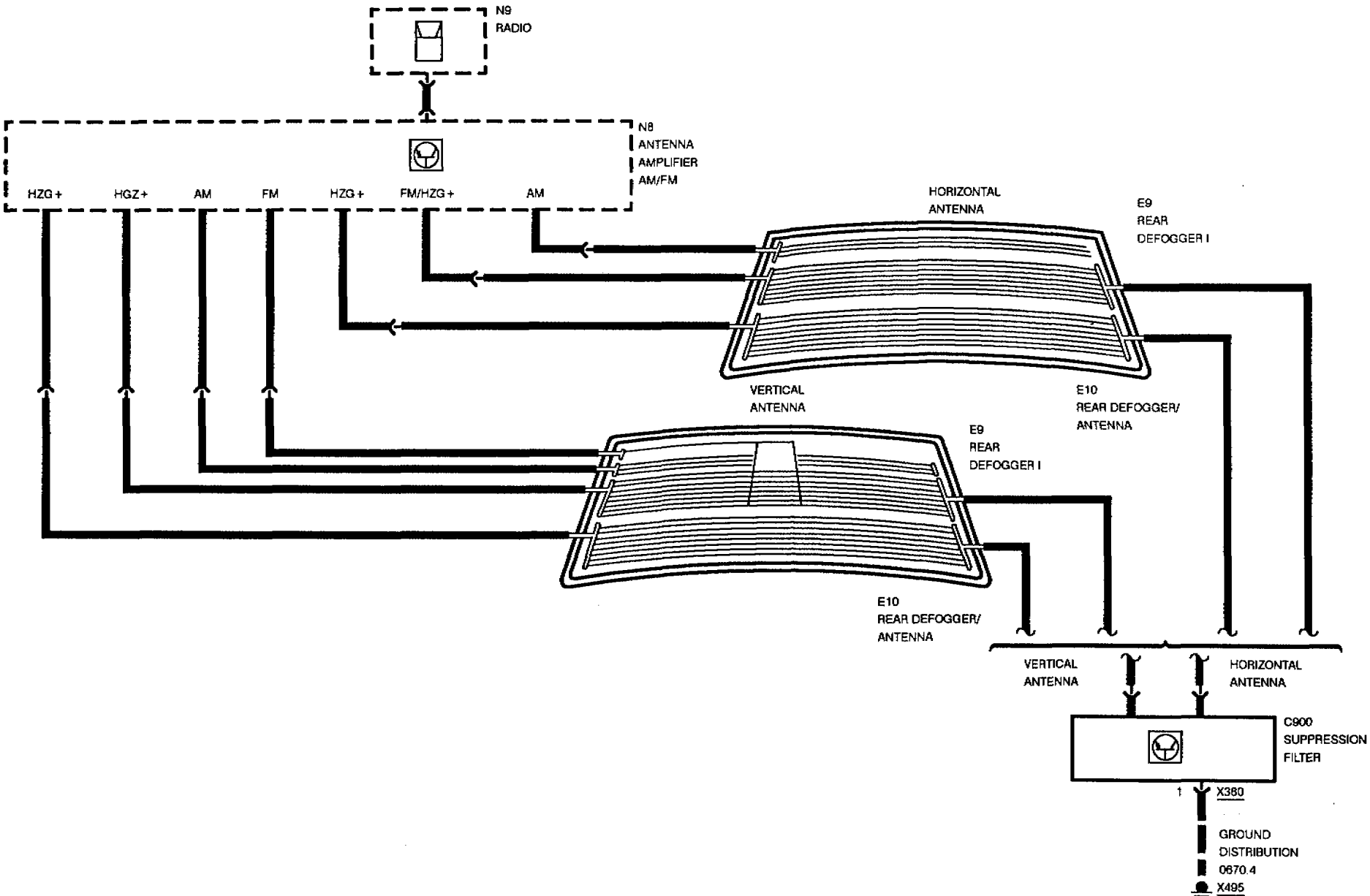
REAR WINDOW DEFOGGER



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REAR WINDOW DEFOGGER

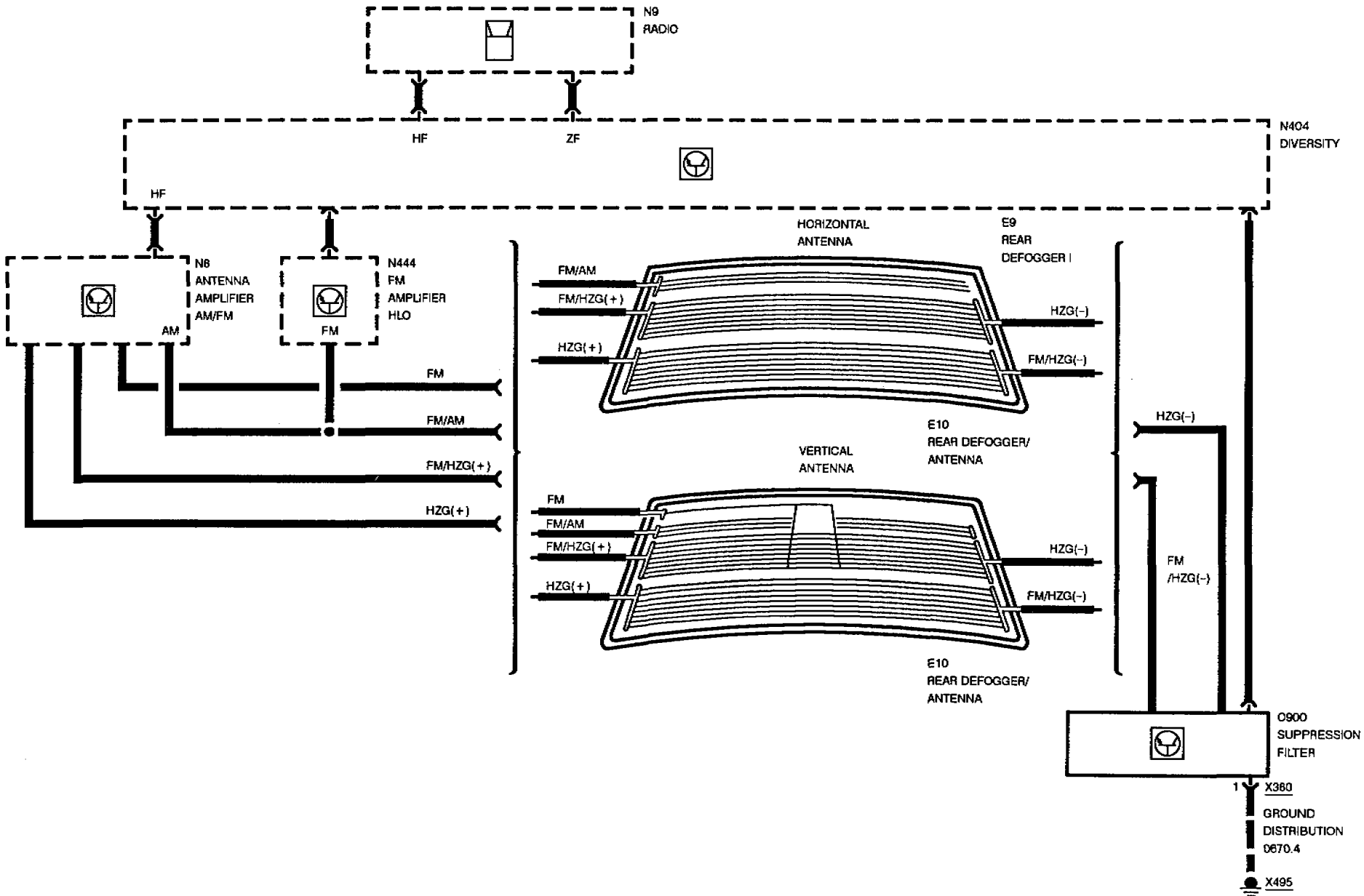
REAR WINDOW ANTENNA



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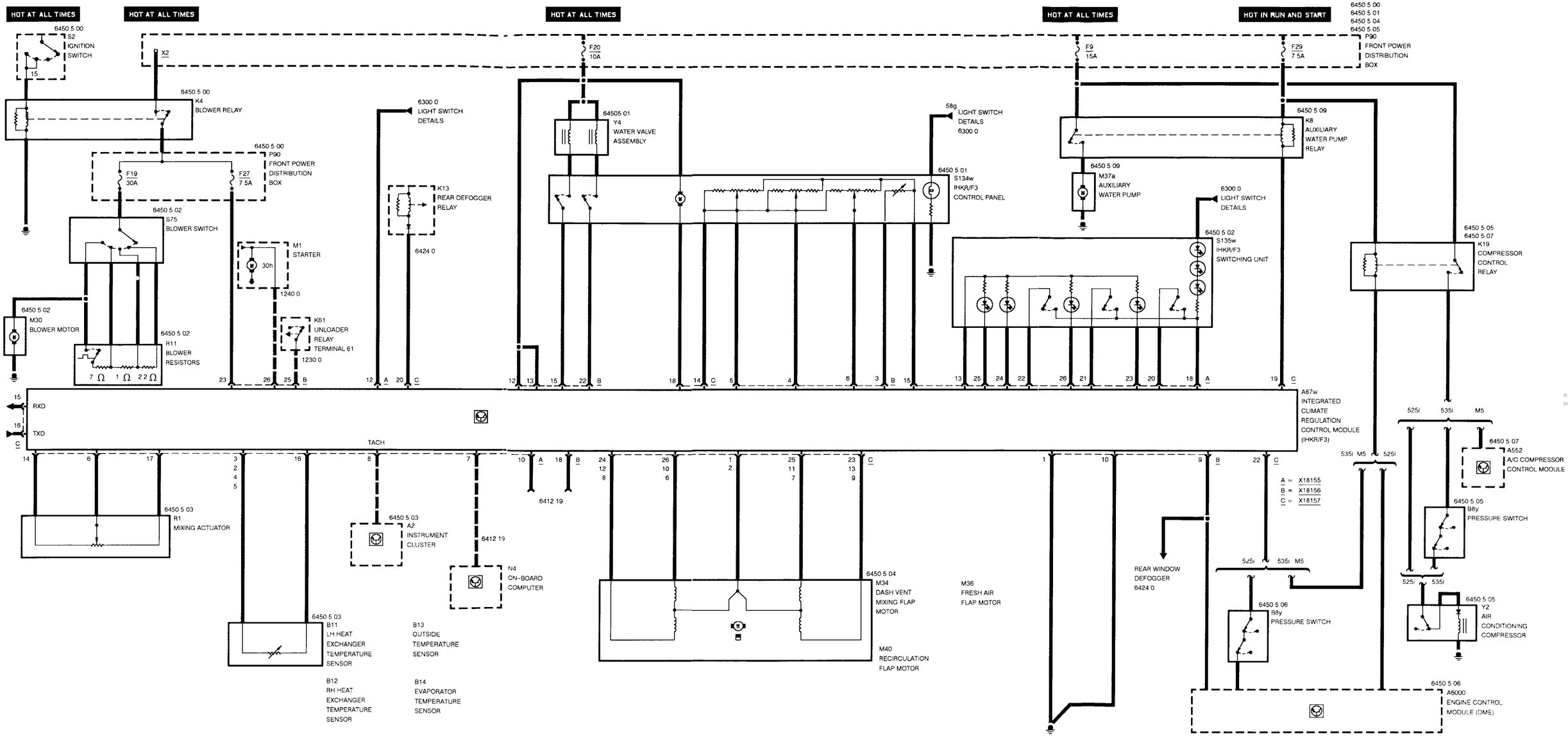
REAR WINDOW DEFOGGER

3-ANTENNA-DIVERSITY

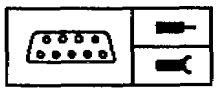


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Pin Assignments

A = 18155 26 Pins, white
B = 18156 26 Pins, black
C = 18157 26 Pins, blue

X18155

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1		Not used				
2	E	Right heater temperature	Right heater sensor	approx. 0.7 V to 4.3 V	0° C to 90° C	approx. 5 V with temperature sensor disconnected
3	E	Left heater temperature	Left heater sensor	approx. 0.7 V to 4.3 V	0° C to 90° C	approx. 5 V with temperature sensor disconnected
4	E	Outside temperature	Outside temperature sensor	approx. 0.5 V to 4.5 V	-40° C to 40° C	approx. 5 V with temperature sensor disconnected
5	E	Evaporator temperature	Evaporator sensor	approx. 1.6 V to 3.4 V	-5° C to 26° C	approx. 5 V with temperature sensor disconnected
6	E	Nominal mixing value	Temp. dist. pot.	approx. 1.6 V to 2.7 V	approx. 0% to 100%	
7	E	Independent ventilation	Relay box	approx. 0 V approx. 11 V	ON OFF	

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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
8	E	Road speed signal	Instrument cluster	Frequency (square-wave)	km/h	
9		Not used				
10	E	Independent heating	Relay box	approx. 0 V approx. 11 V	ON OFF	
11		Not used				
12	E	Terminal 58K	Light switches	approx. 12 V		Light ON
13	A	Voltage supply for function light	Switching unit	approx. 10 V approx. 4 V approx. 6 V		Light OFF Light ON, function light On Light ON, function light OFF
14	A	Plus for mixing air control	Temp. dist. pot.	approx. 4.7 V		
15	A	Ground for control wheels and interior sensors	Control switch	approx. 0 V		
16	A	Ground for temperature sensors	Temperature sensors	approx. 0 V		
17	A	Ground for mixing air control	Temp. dist. pot.	approx. 0 V		
18	E	Ground for illumination and switches	Switching unit			
19		Not used				
20	E	Push button for air conditioning	Switching unit	approx. 0 V approx. 10 V	ON OFF	
21	E	Push button for air recirculation	Switching unit	approx. 0 V approx. 10 V	ON OFF	
22	E	Push button for rear window defogger	Switching unit	approx. 0 V approx. 10 V	ON OFF	
23	A	Function light, air conditioning	Switching unit	approx. 7.5 V approx. 8.5 V		LED ON (light OFF) LED OFF (light OFF)

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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
24	A	Function light, rear window defogger	Switching unit	approx. 7.5 V approx. 8.5 V		LED ON (light OFF) LED OFF (light OFF)
25	A	Function light, air recirculation	Switching unit	approx. 7.5 V approx. 8.5 V		LED ON (light OFF) LED OFF (light OFF)
26	A	Function light, air recirculation control	Switching unit	approx. 7.5 V approx. 8.5 V		LED ON (light OFF) LED OFF (light OFF)

X18156

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Ground for electronics	Ground	0 V		
2		Not used				
3	E	Interior temperature sensor	Control switch	approx. 1.7 V to 3.4 V	10° C to 40° C	approx. 5 V with temperature sensor disconnected
4	E	Nominal air flow value	Control switch	approx. 0.6 V–4 V	OFF (approx. 100%)	
5	E	Nominal temperature value, left	Control switch	approx. 0.5 V to 4.2 V	16° C to 32° C	
6	E	Nominal temperature value, right	Control switch	approx. 0.5 V to 4.2 V	16° C to 32° C	
7		Not used				
8		Not used				
9	A	Auxiliary fan signal	DME control unit	approx. 0 V approx. 12 V	ON OFF	
10	E	Ground for electronics	Ground	0 V		
11		Not used				
12	E	Plus voltage supply for control unit	Connector terminal 30	approx. 12 V		

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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
13	E	Plus voltage supply for control unit	Connector terminal 30	approx. 12 V		
14		Not used				
15	A	Right water valve activation	Control switch	Frequency (square-wave voltage)	0% to 100%	At 0% approx. 0 V at 100% approx. 12 V
16		Not used				
17		Not used				
18	E	Terminal 15 (independent ventilation only)		approx. 12 V		
19		Not used				
20		Not used				
21		Not used				
22	A	Left water valve activation	Control switch	Frequency (square-wave voltage)	0% to 100%	At 0% approx. 0 V at 100% approx. 12 V
23	E	Plus voltage supply for control unit	Connector terminal 15	approx. 12 V		
24		Not used				
25	E	Terminal 61	Unloader relay terminal 61	approx. 0 V approx. 12 V	OFF ON	when engine stationary when engine running
26	E	Terminal 30h	Starter	approx. 12 V		when starting

X18157

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Plus for flap motors	All flap motors	approx. 11 V		
2	A	Plus for flap motors	All flap motors	approx. 11 V		

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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
3		Not used				
4		Not used				
5		Not used				
6	A	Footwell, flap motor activation	Footwell flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
7	A	Footwell, flap motor activation	Footwell flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
8	A	Footwell, flap motor activation	Footwell flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
9	A	Footwell, flap motor activation	Footwell flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
10	A	Fresh air flap motor activation	Fresh air flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
11	A	Fresh air flap motor activation	Fresh air flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
12	A	Fresh air flap motor activation	Fresh air flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
13	A	Fresh air flap motor activation	Fresh air flap motor	Frequency (square-wave voltage)	0% to 100%	approx. 11 V when motor OFF
14	A	Plus for control wheels in control switch	Control switch	approx. 5 V		

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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

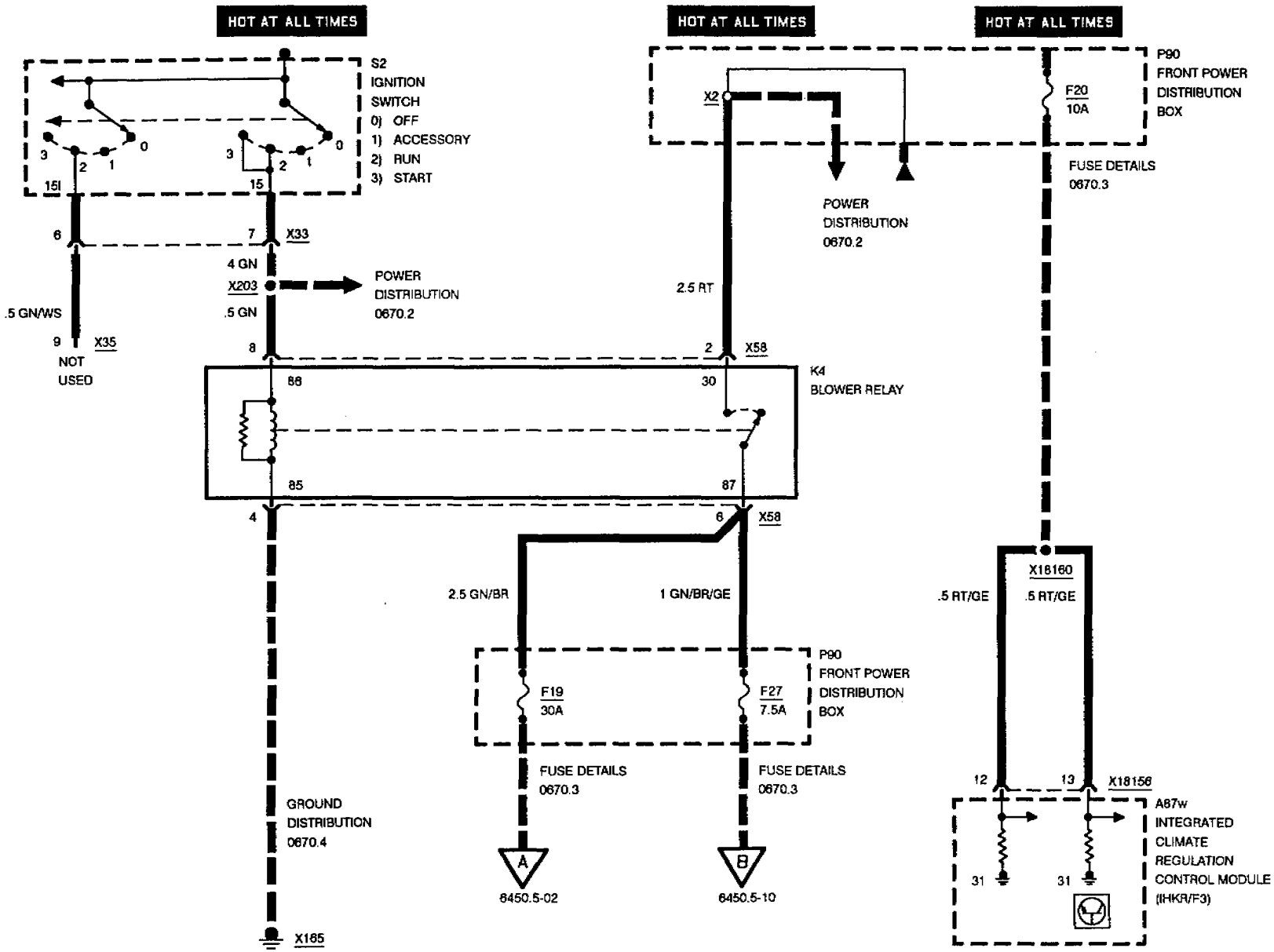
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
15	A	Diagnosis RxD	Diagnostic connector	Frequency		
16	E	Diagnosis TxD	Diagnostic connector	Frequency		
17		Not used				
18	A	Switching unit sensor fan activation	Control switch	approx. 0 V approx. 12 V		At ignition ON approx. 3 minutes after ignition OFF
19	A	Auxiliary water pump activation	Relay, auxiliary water pump	Ground		
20	A	Rear window defogger activation	Rear window defogger relay	approx. 0 V approx. 12 V	ON OFF	
21		Not used				
22	A	Activation, A/C compressor	DME control unit	approx. 0 V approx. 12 V	ON OFF	
23	A	Mixing flap motor activation	Mixing flap motor	Frequency (square-wave voltage)	0% - 82% at ventilation flap switch OFF 100% at ventilation switch ON	approx. 11 V with motor OFF
24	A	Mixing flap motor activation	Mixing flap motor	Frequency (square-wave voltage)	0% - 82% at ventilation flap switch OFF 100% at ventilation switch ON	approx. 11 V with motor OFF
25	A	Mixing flap motor activation	Mixing flap motor	Frequency (square-wave voltage)	0% - 82% at ventilation flap switch OFF 100% at ventilation switch ON	approx. 11 V with motor OFF
26	A	Mixing flap motor activation	Mixing flap motor	Frequency (square-wave)	0% - 82% at ventilation flap switch OFF 100% at ventilation switch ON	approx. 11 V with motor OFF

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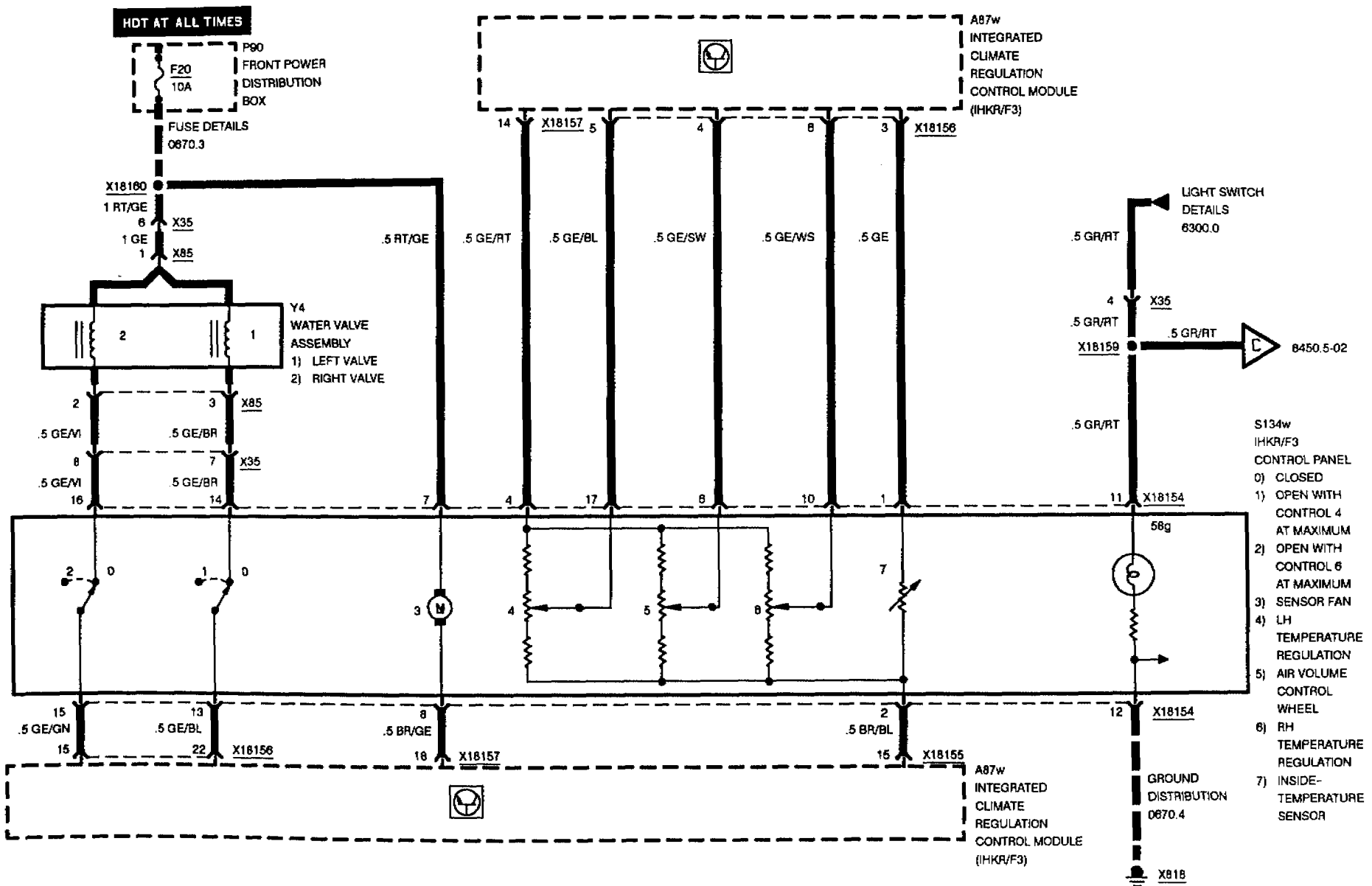
INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

POWER



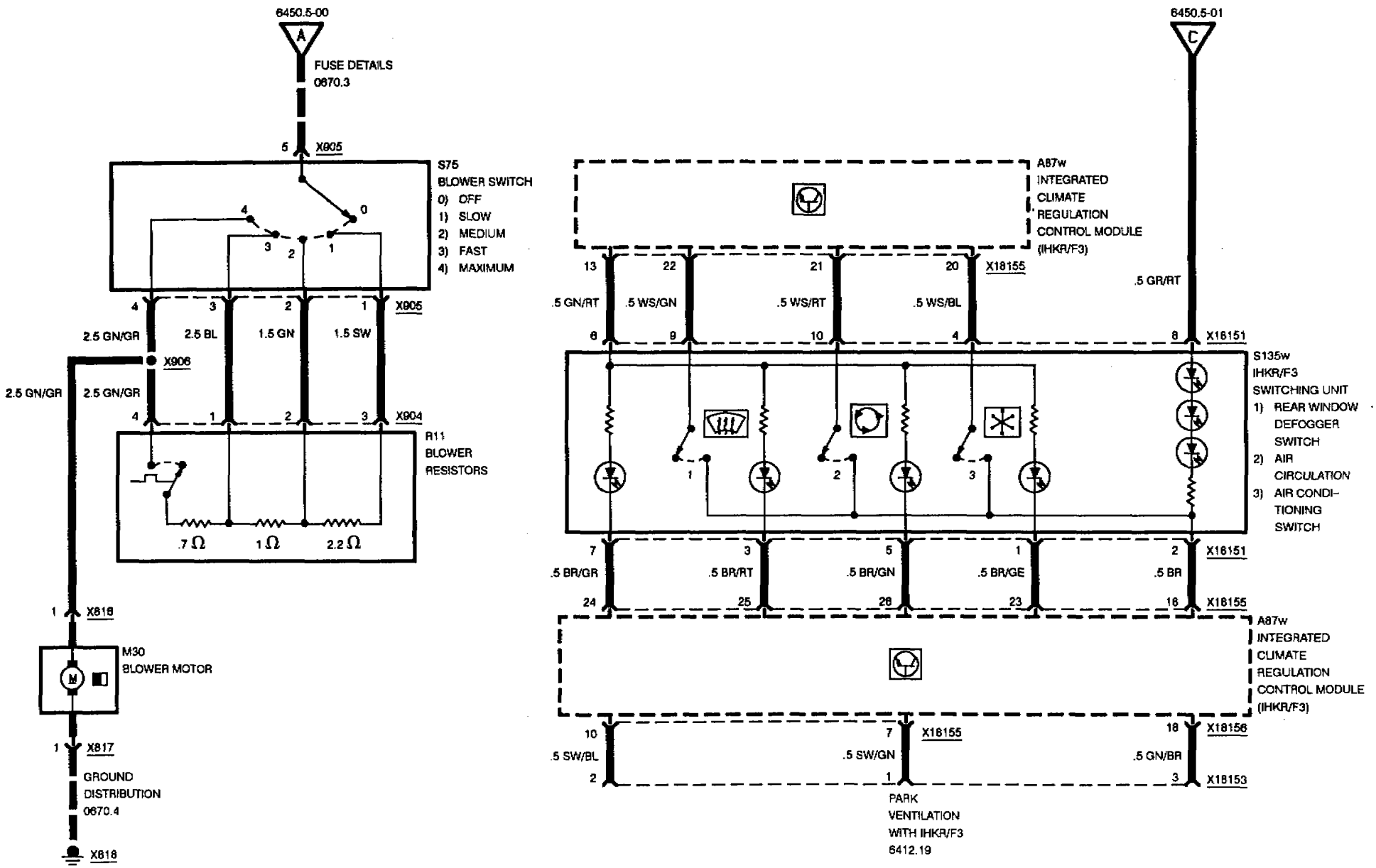
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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)



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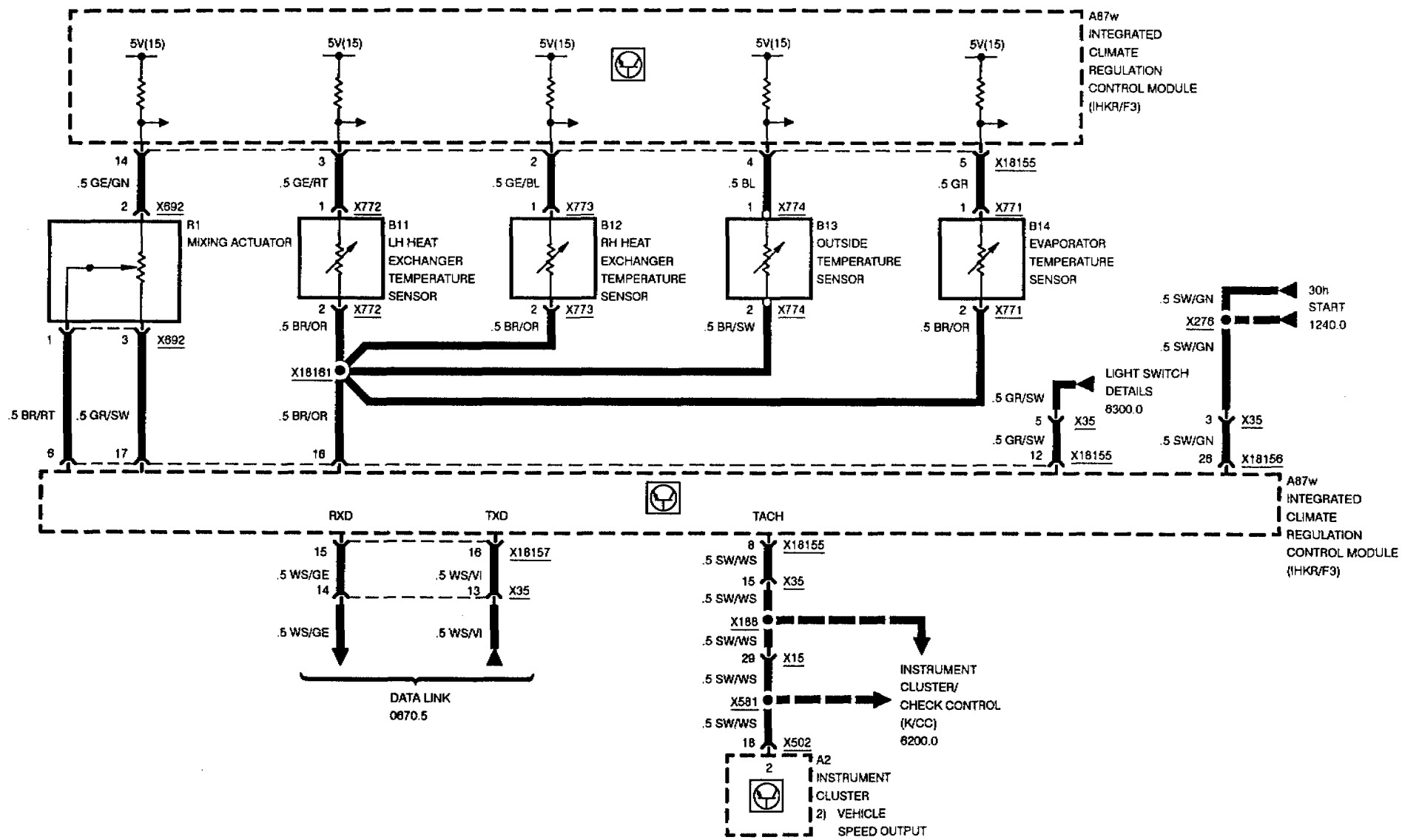
INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)



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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

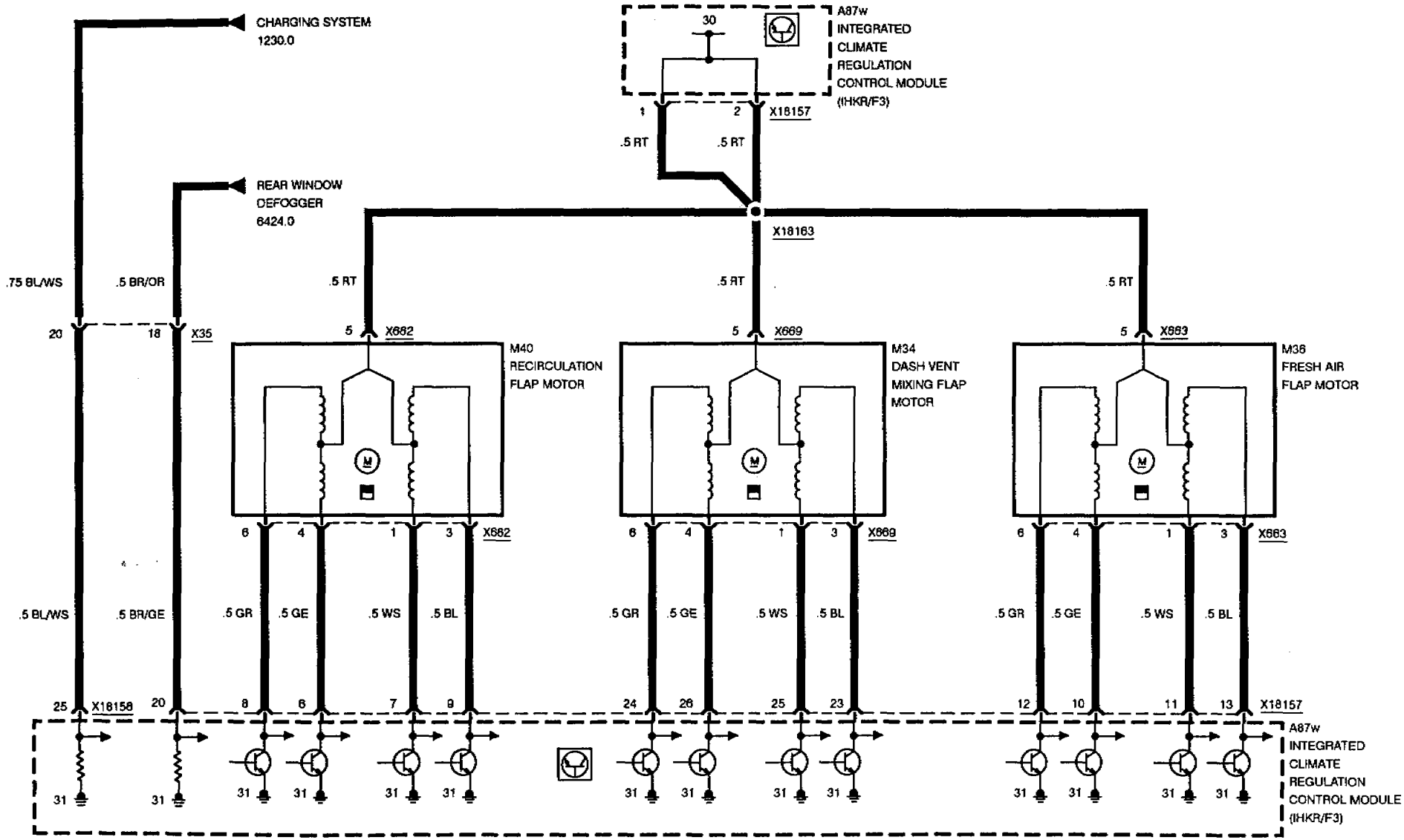
TEMPERATURE CONTROLS



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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

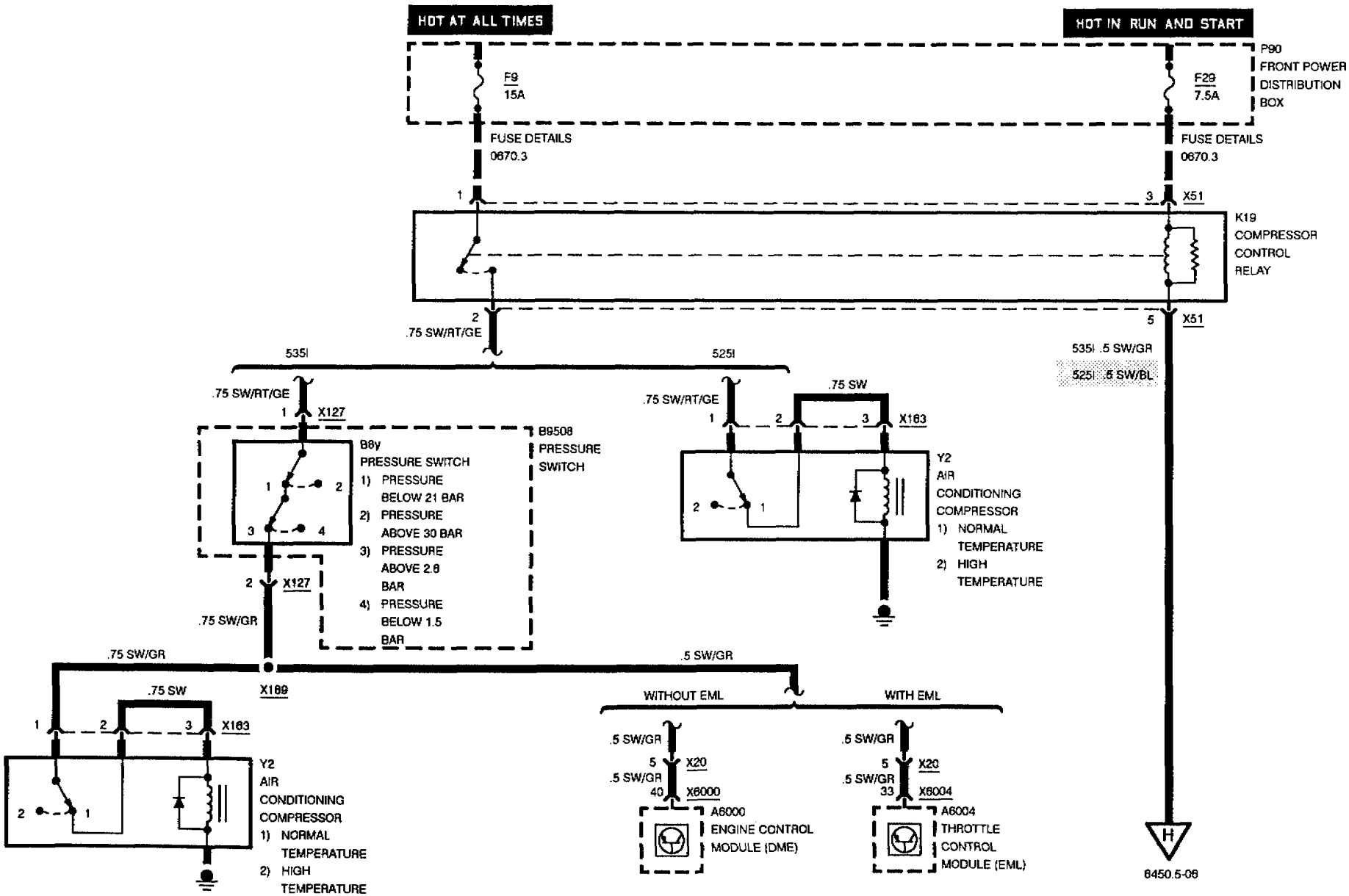
AIR DELIVERY



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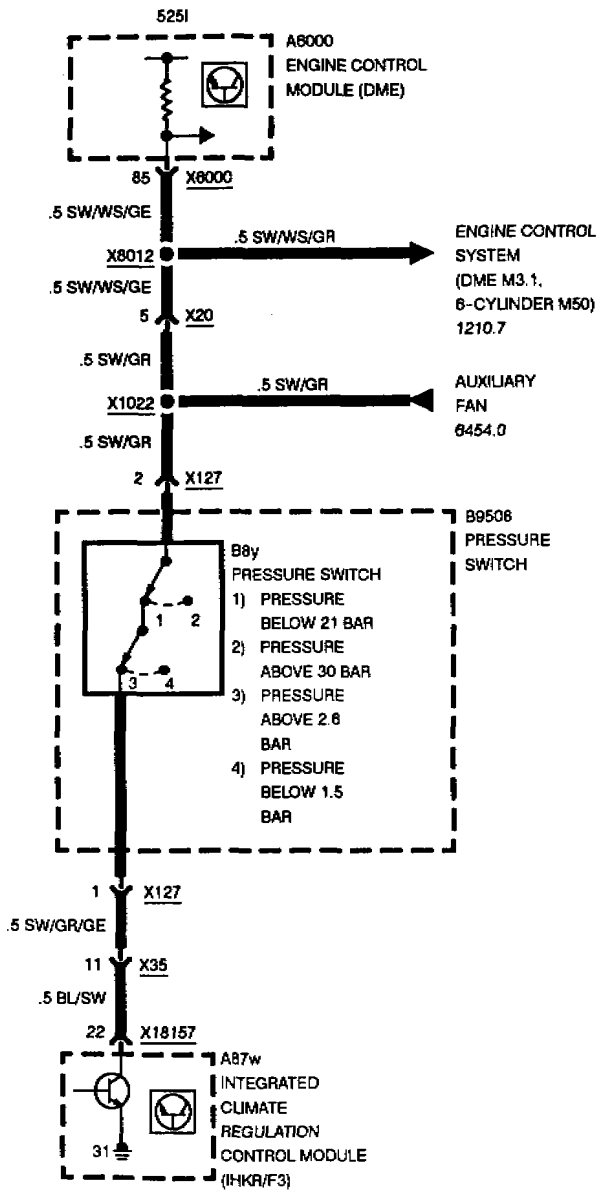
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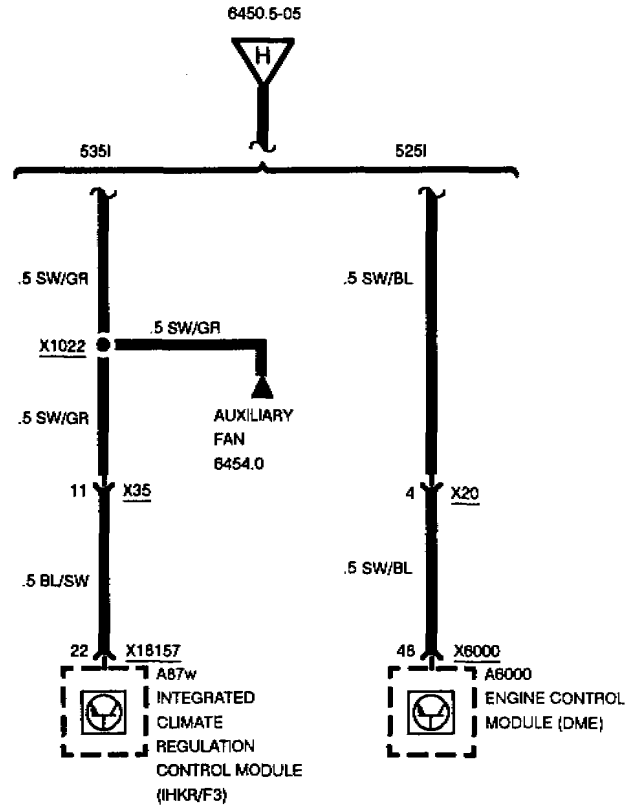
COMPRESSOR CONTROLS



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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

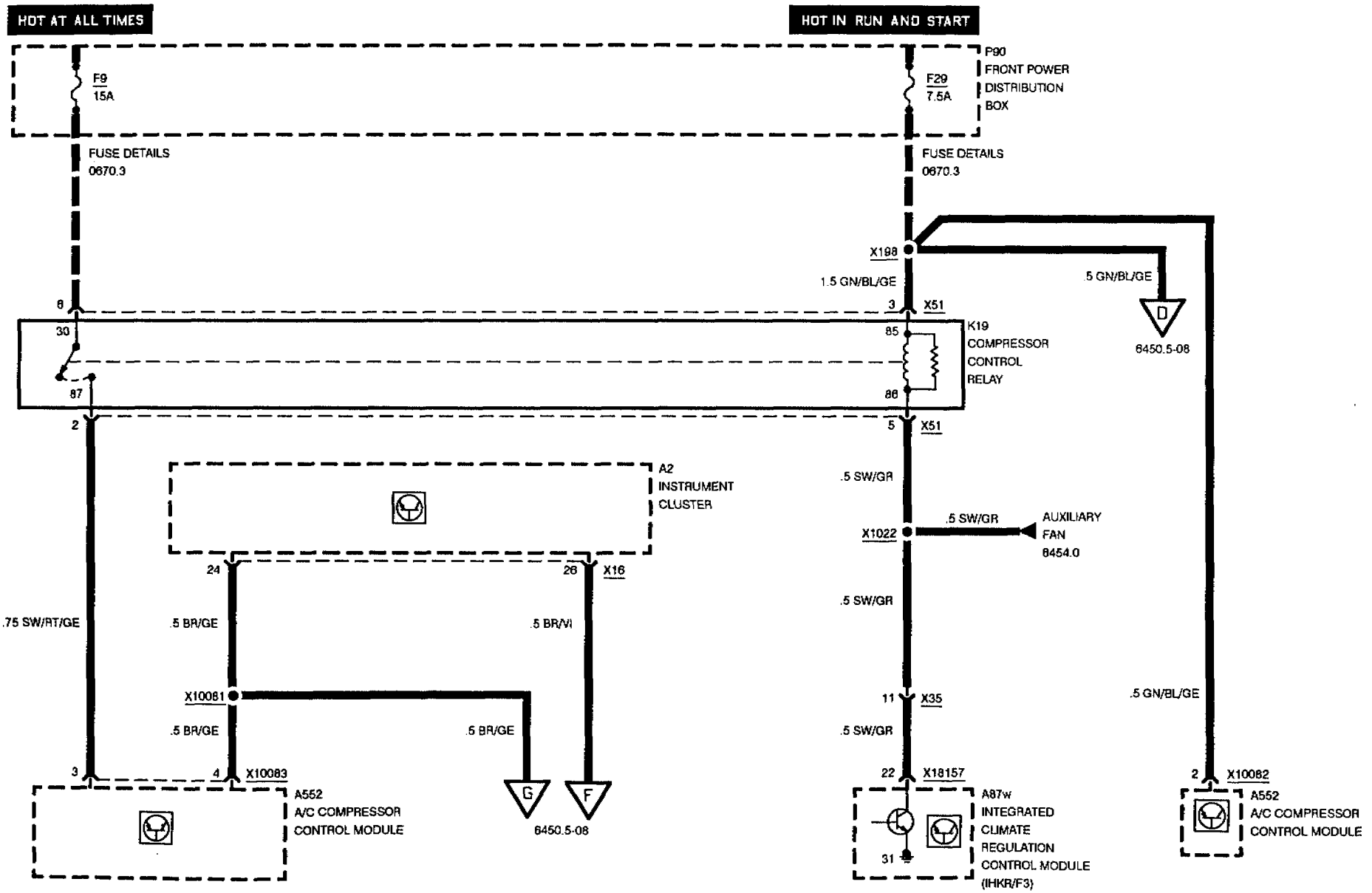




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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

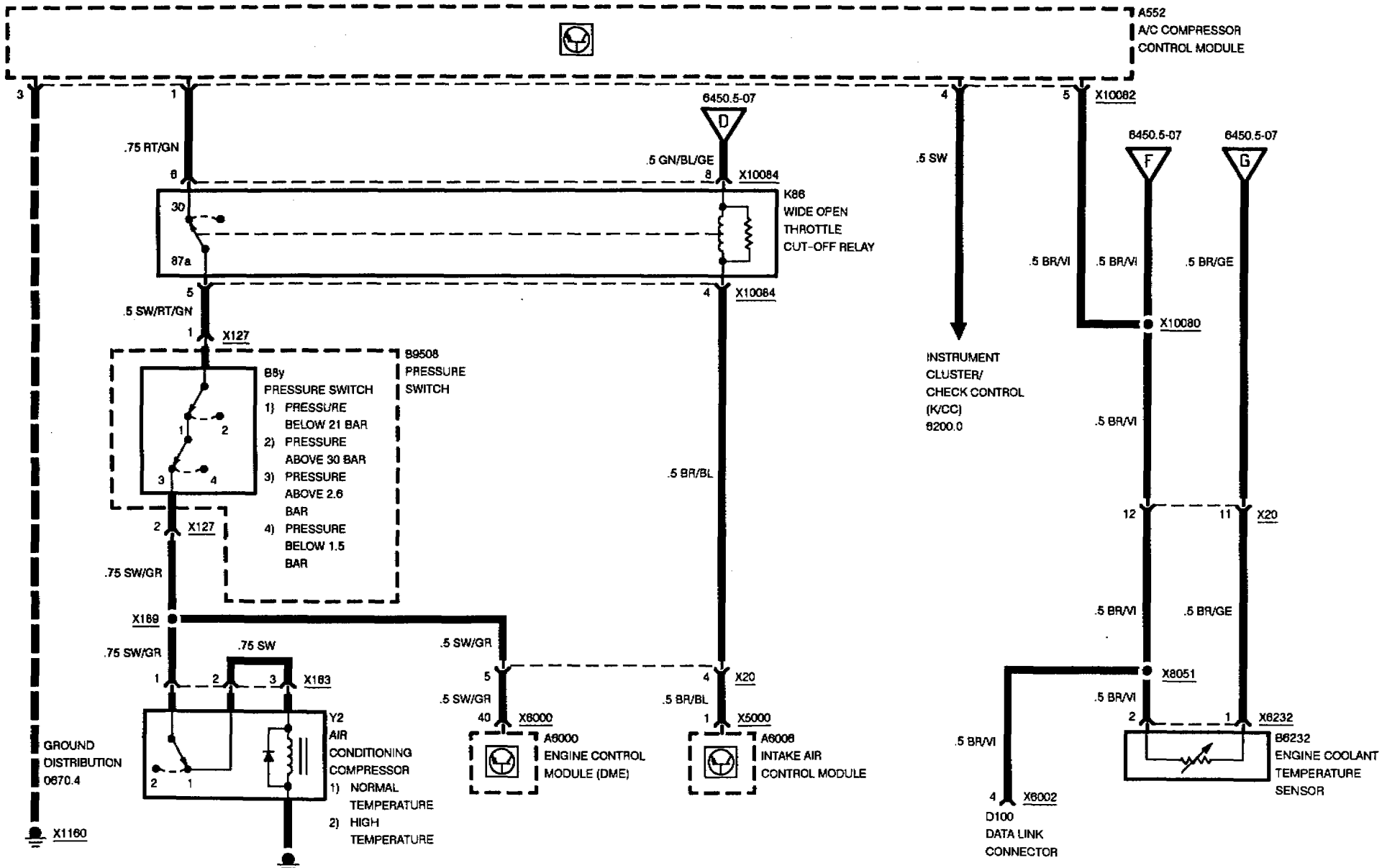
COMPRESSOR CONTROL FOR M5



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INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

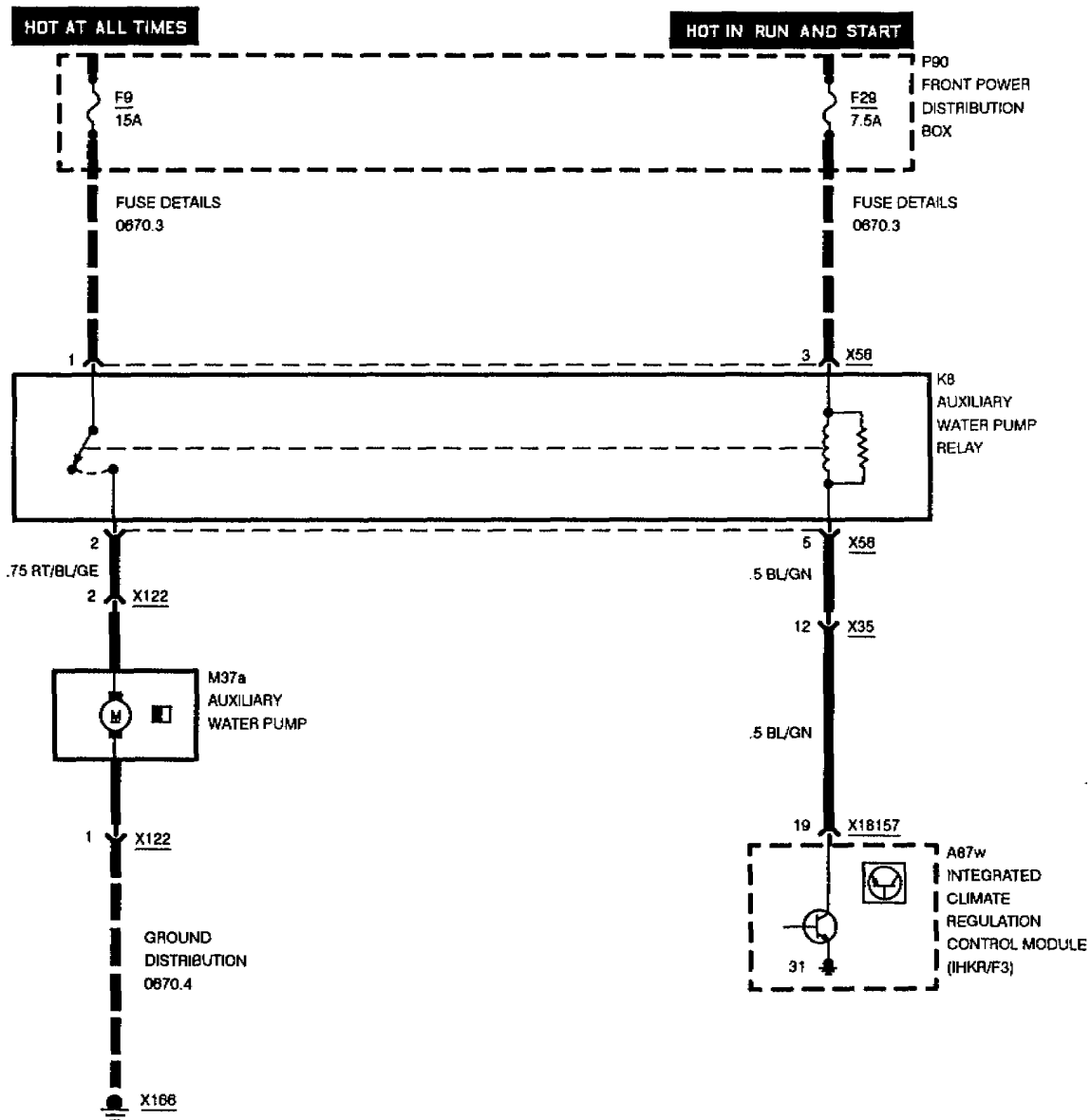
COMPRESSOR CONTROL FOR M5



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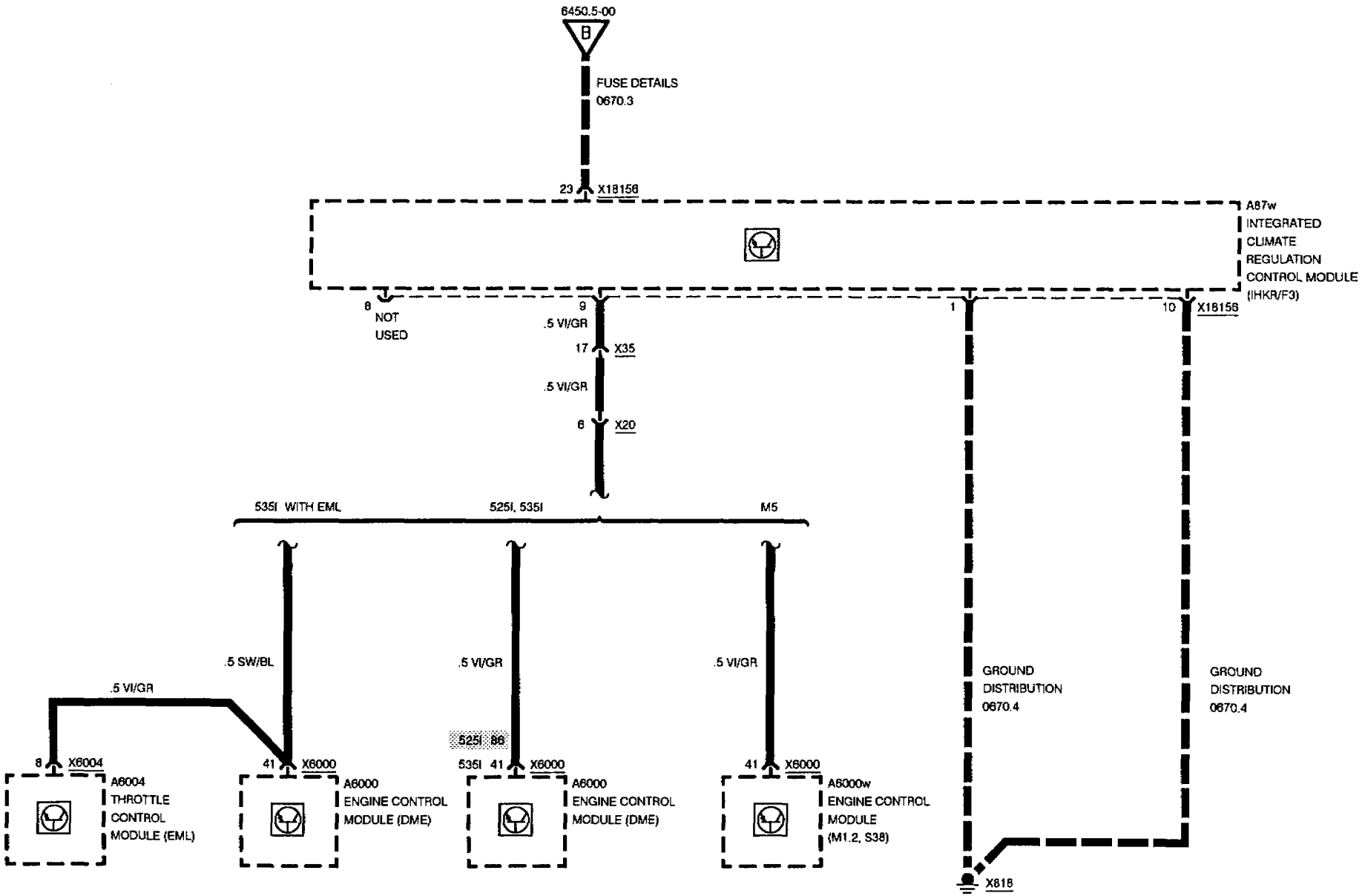
INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

AUXILIARY WATER PUMP



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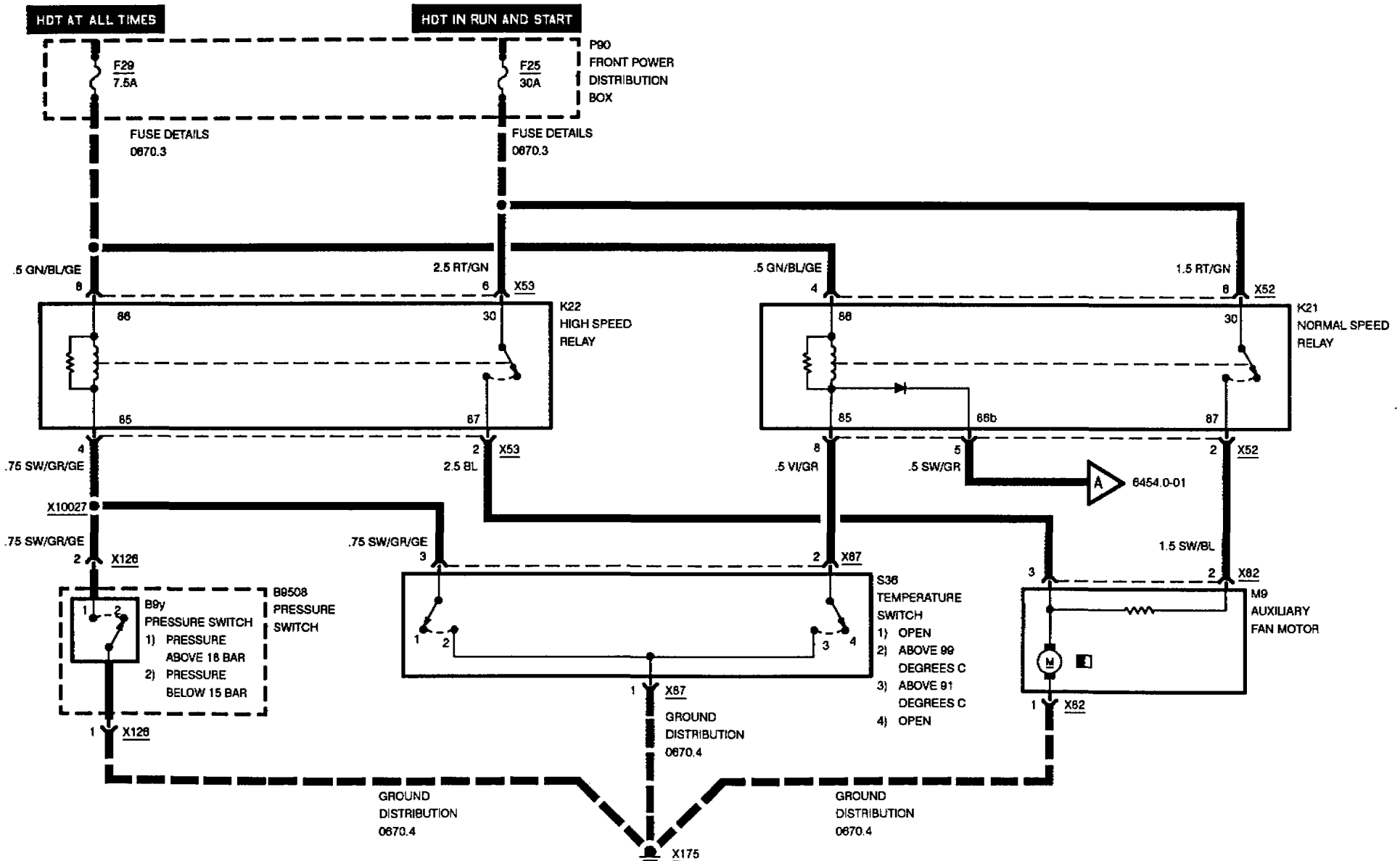
INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)



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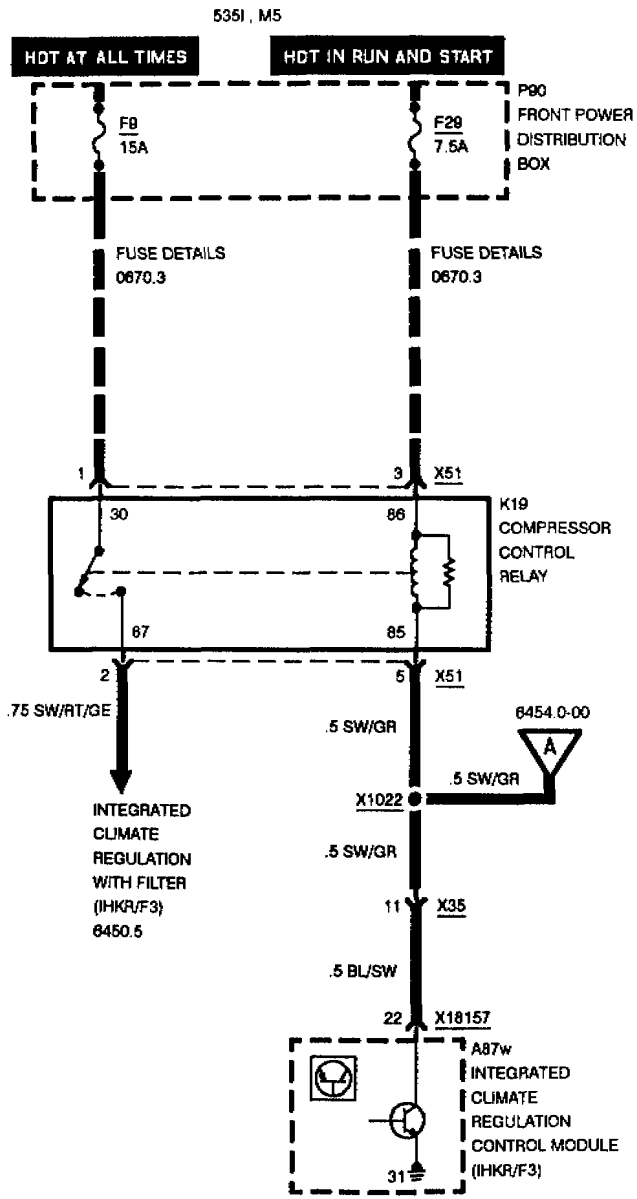
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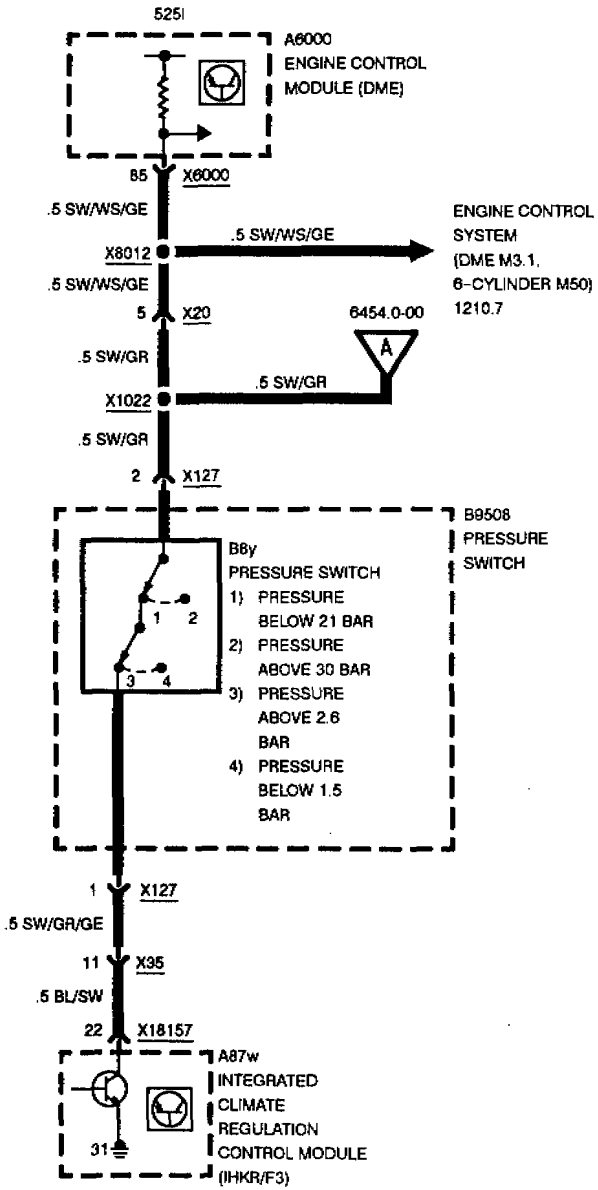
AUXILIARY FAN



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AUXILIARY FAN

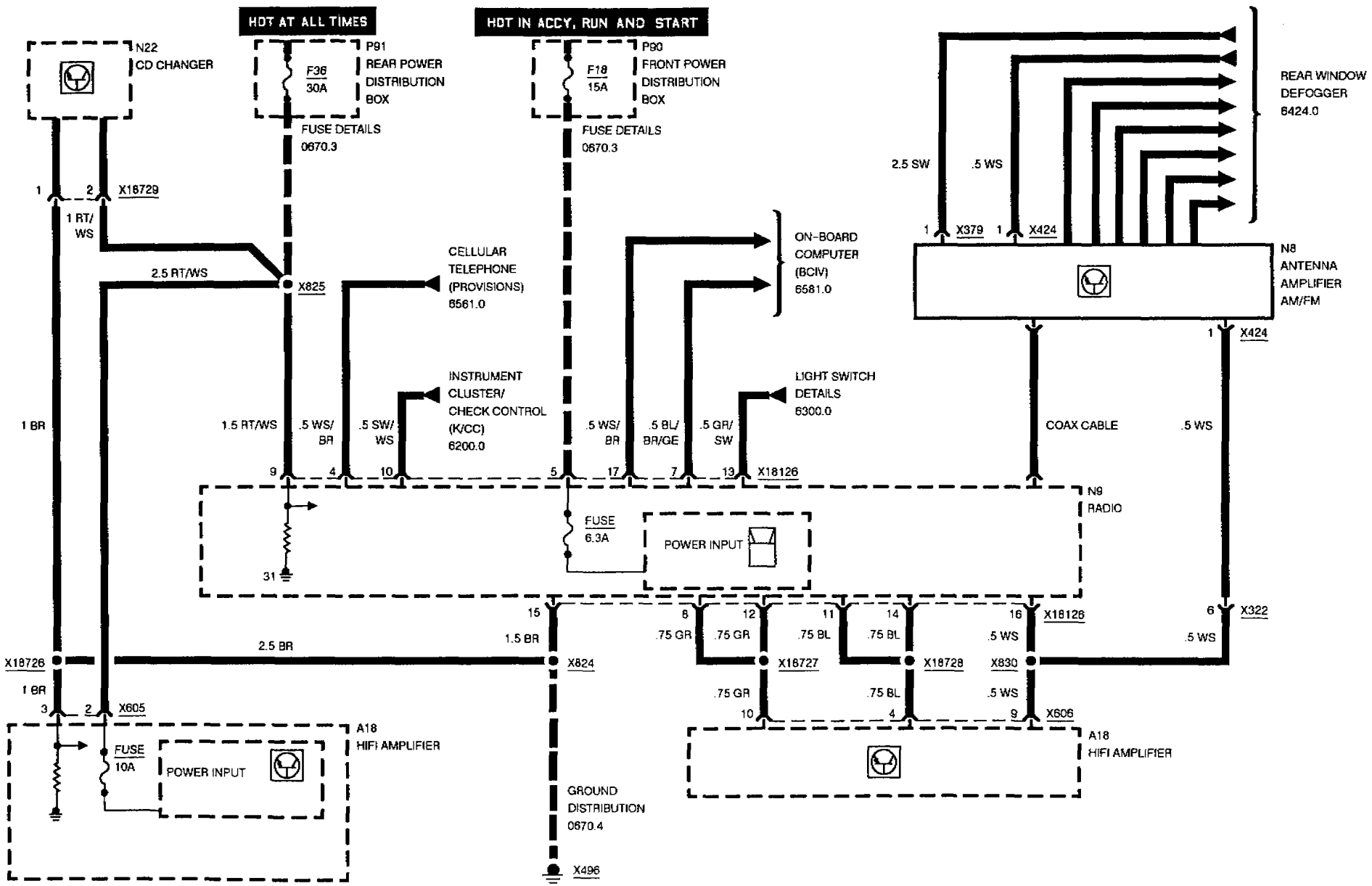




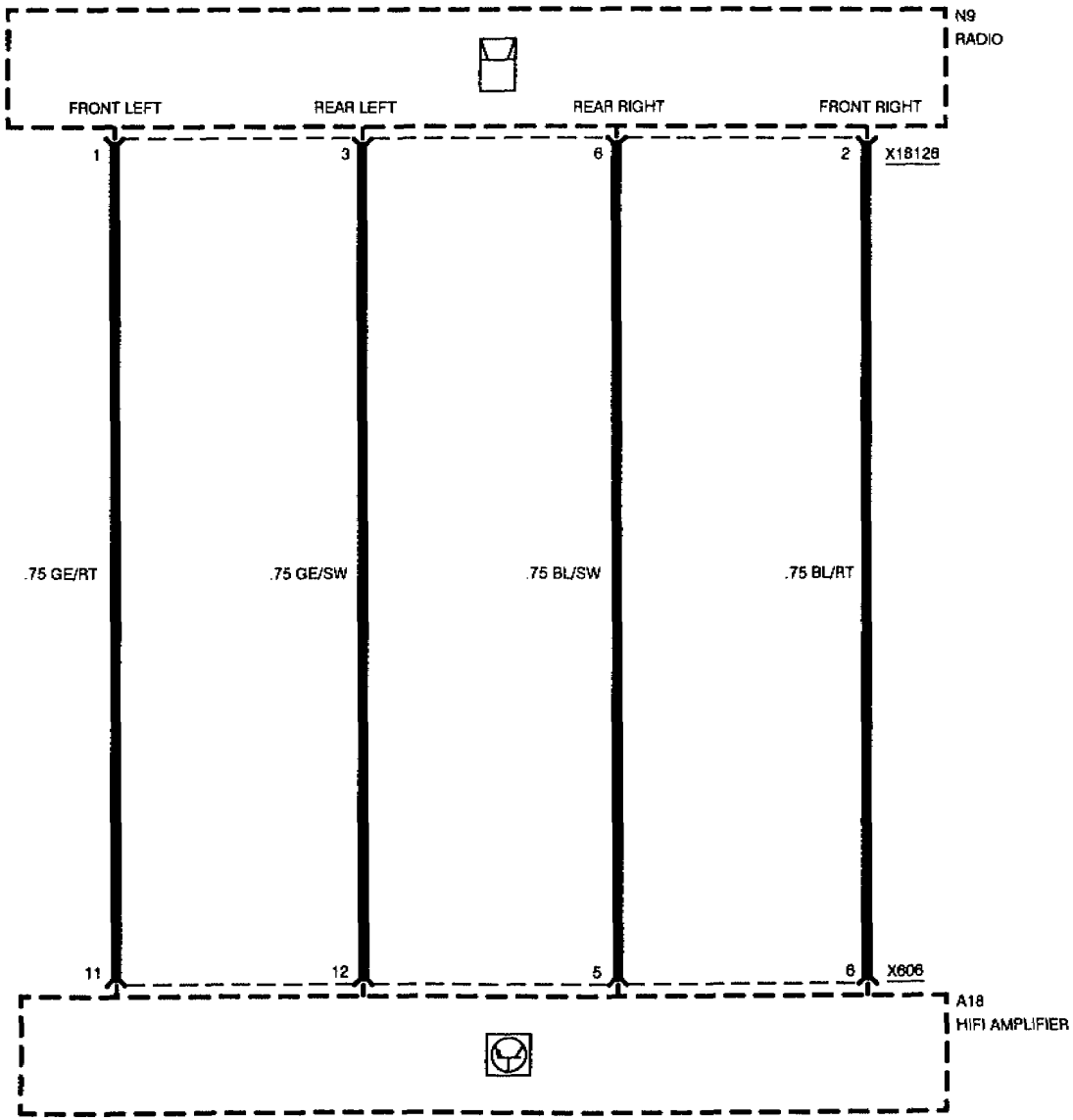
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RADIO/HIFI

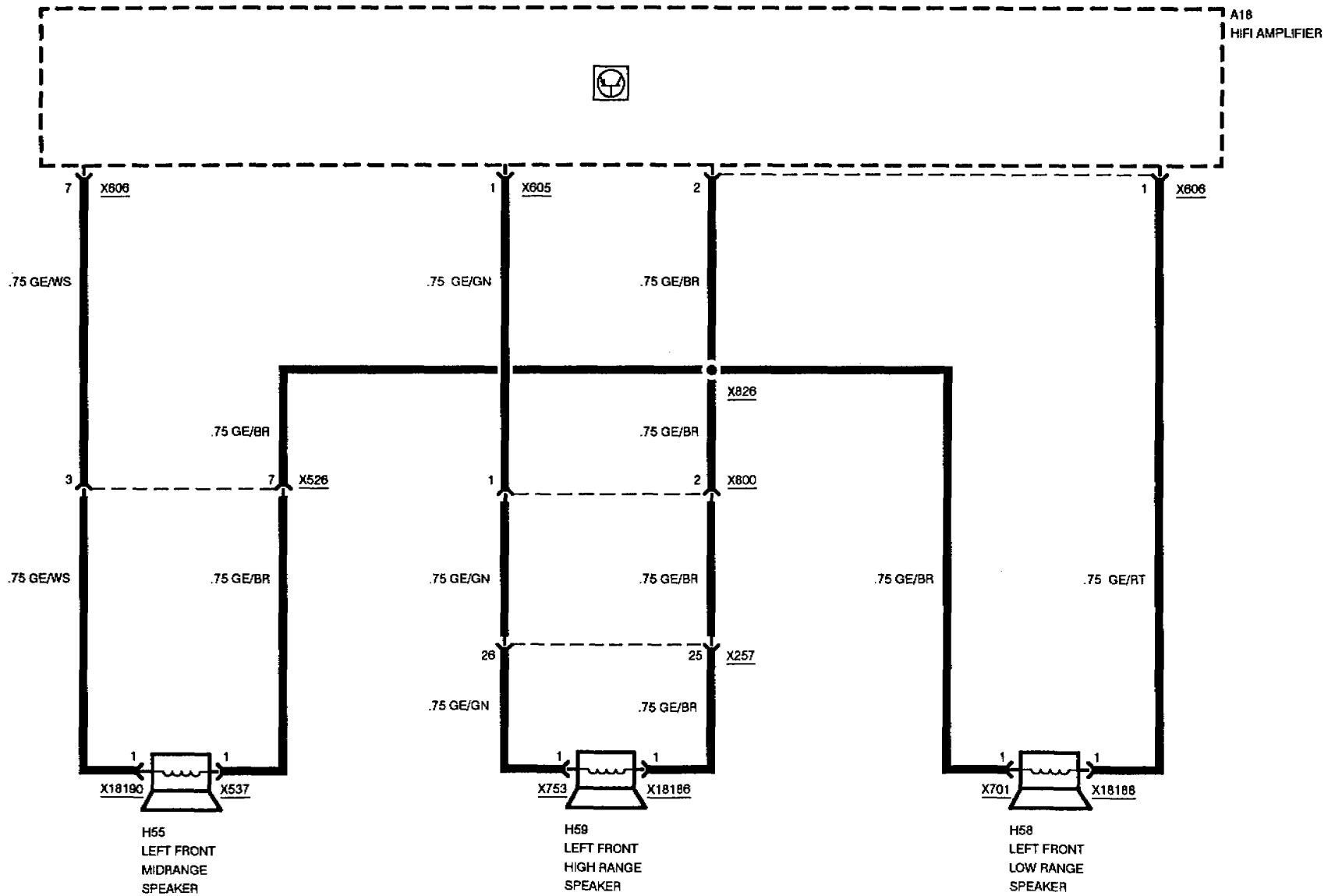
HIFI, 10-SPEAKER SYSTEM



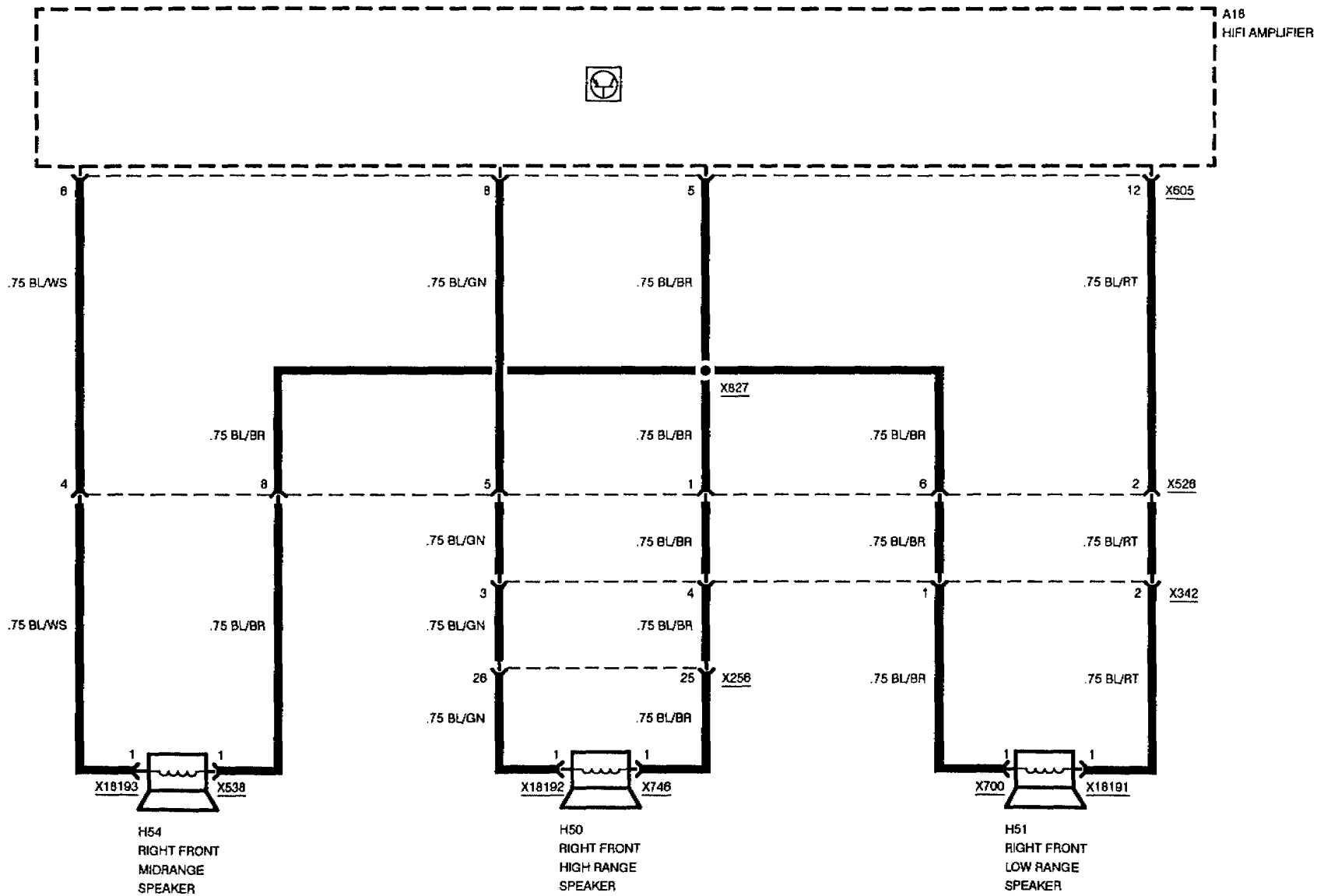
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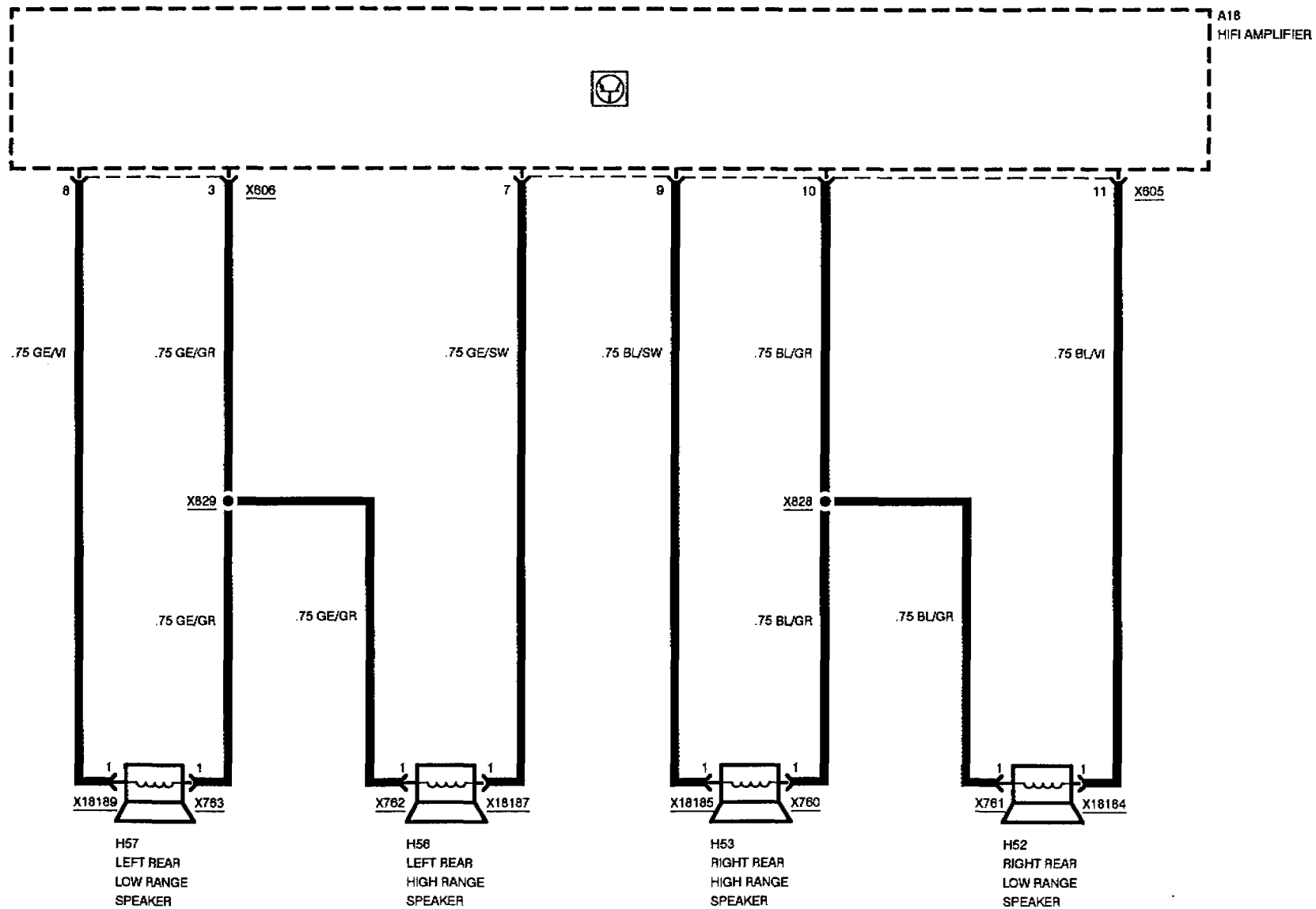
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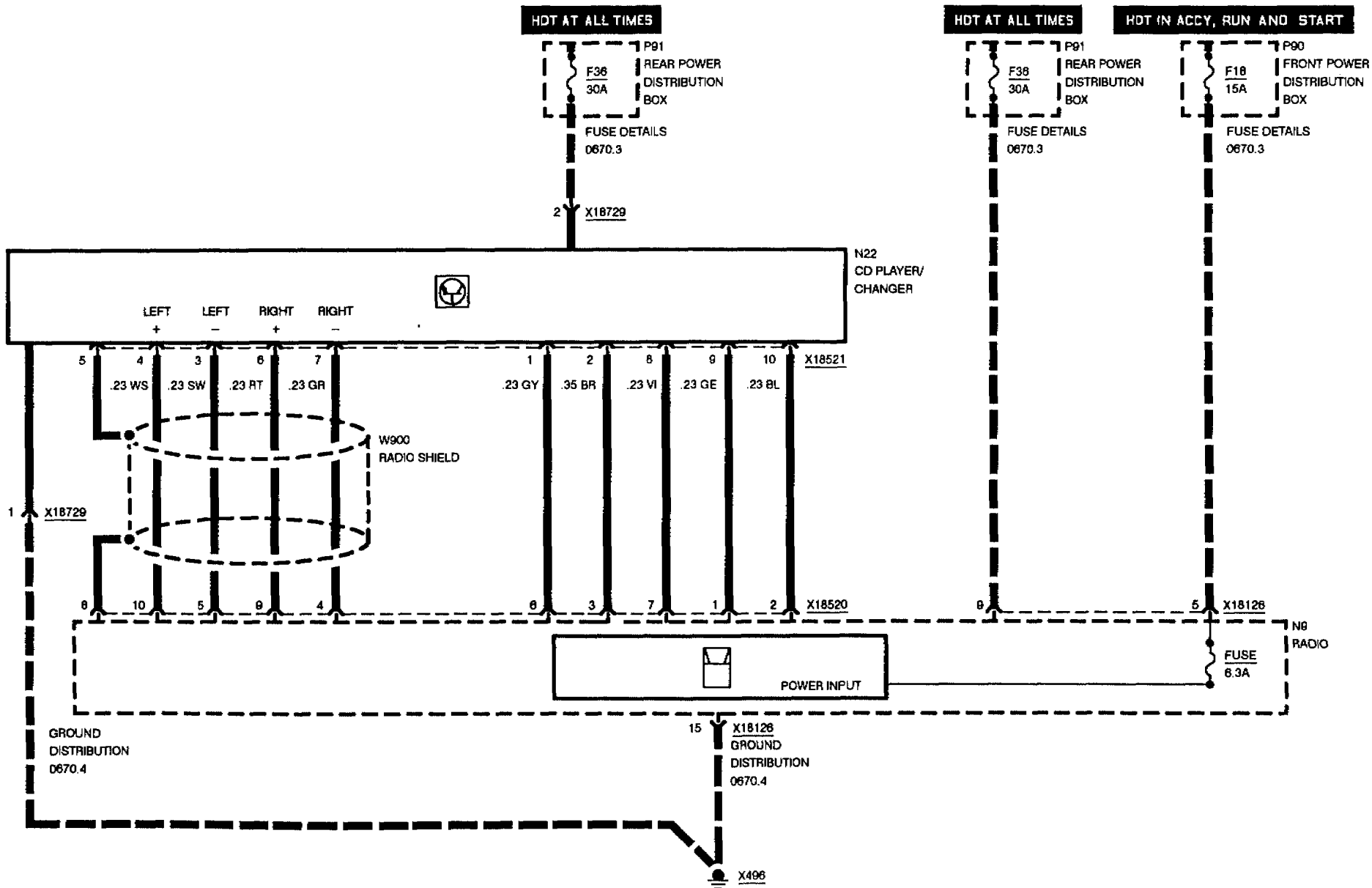
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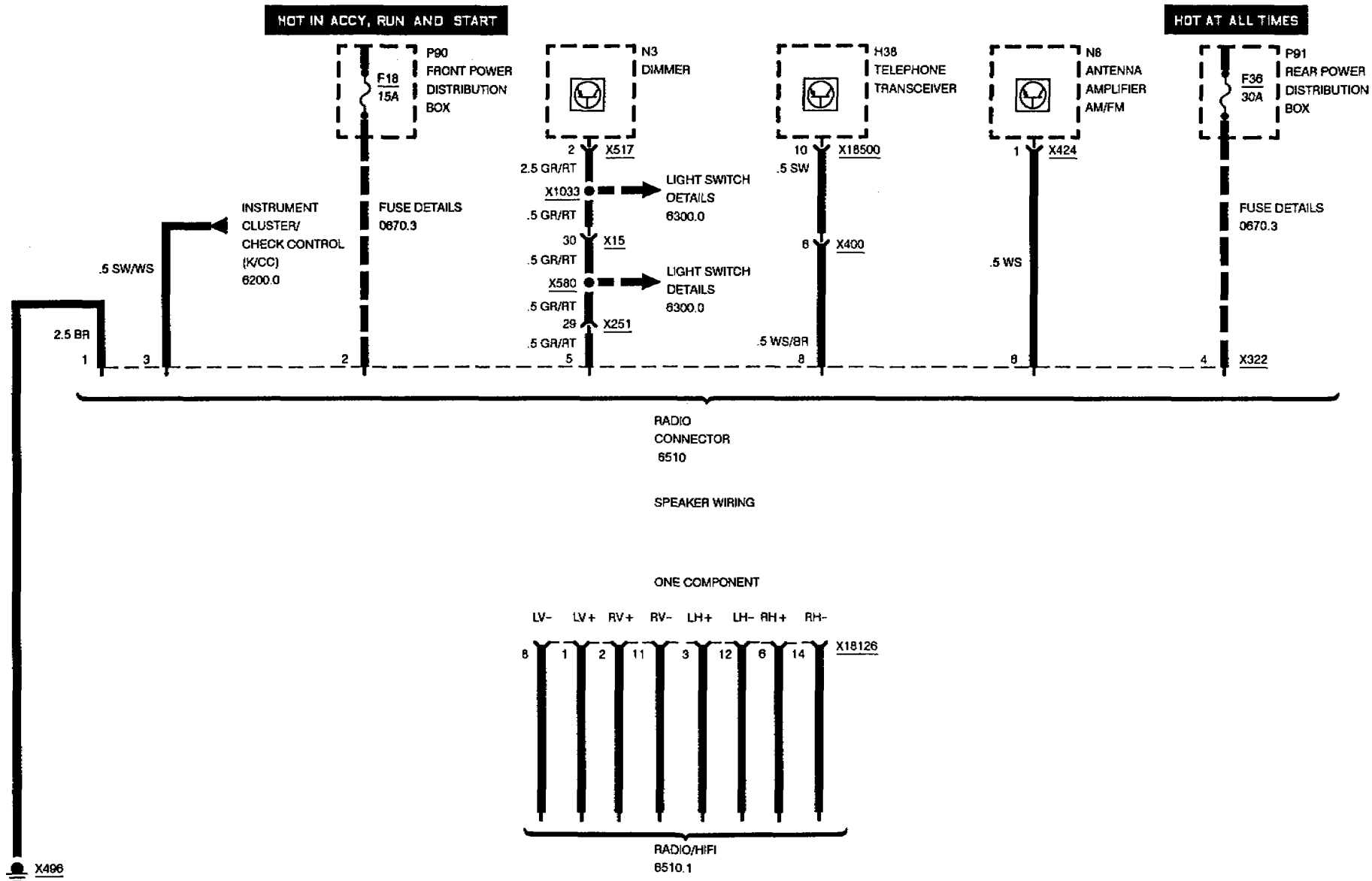
RADIO/HIFI

HIFI WITH CD, 10-SPEAKER SYSTEM



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RADIO PROVISIONS

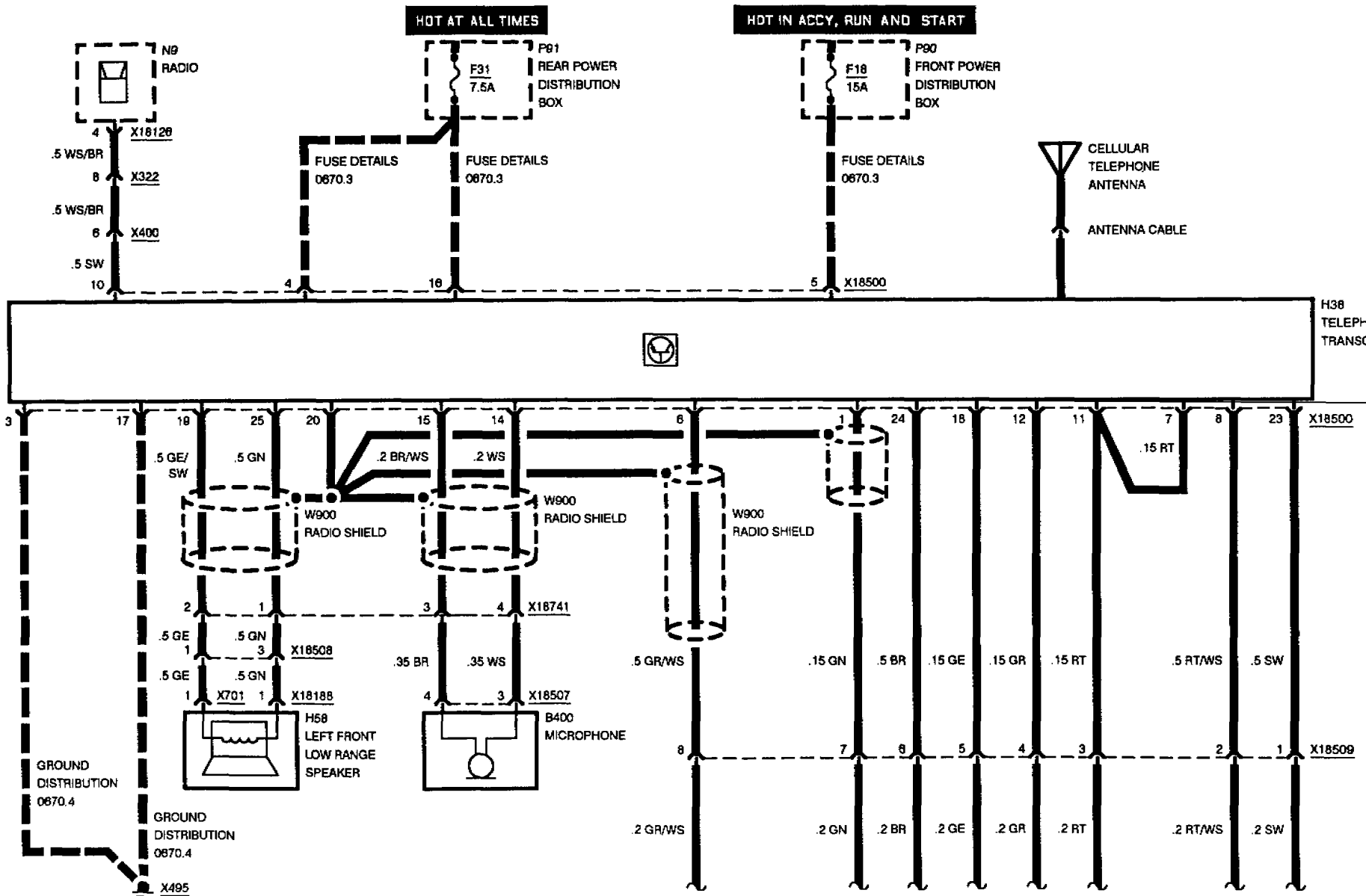


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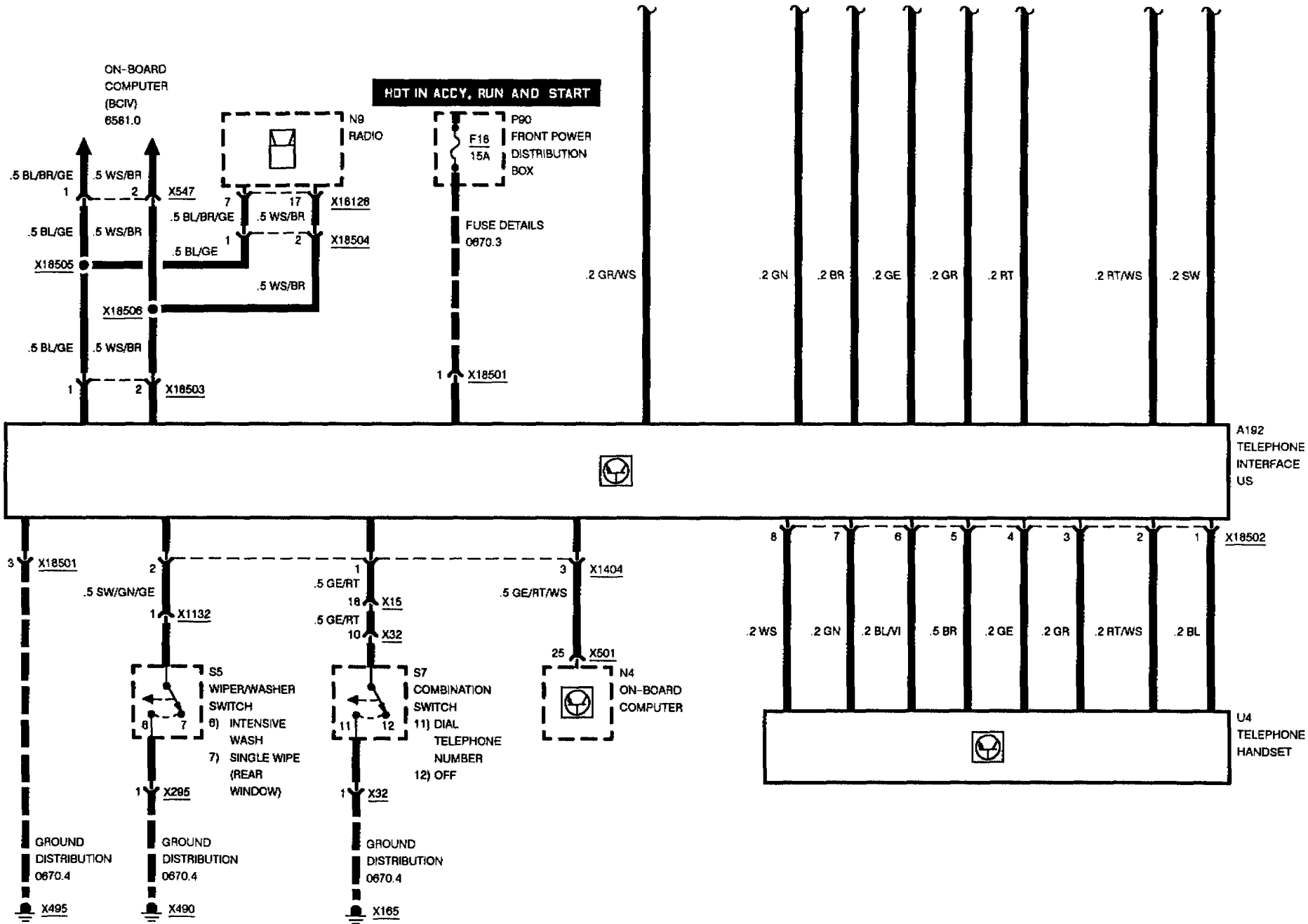
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CELLULAR TELEPHONE (PROVISIONS)

WITH INTERFACE



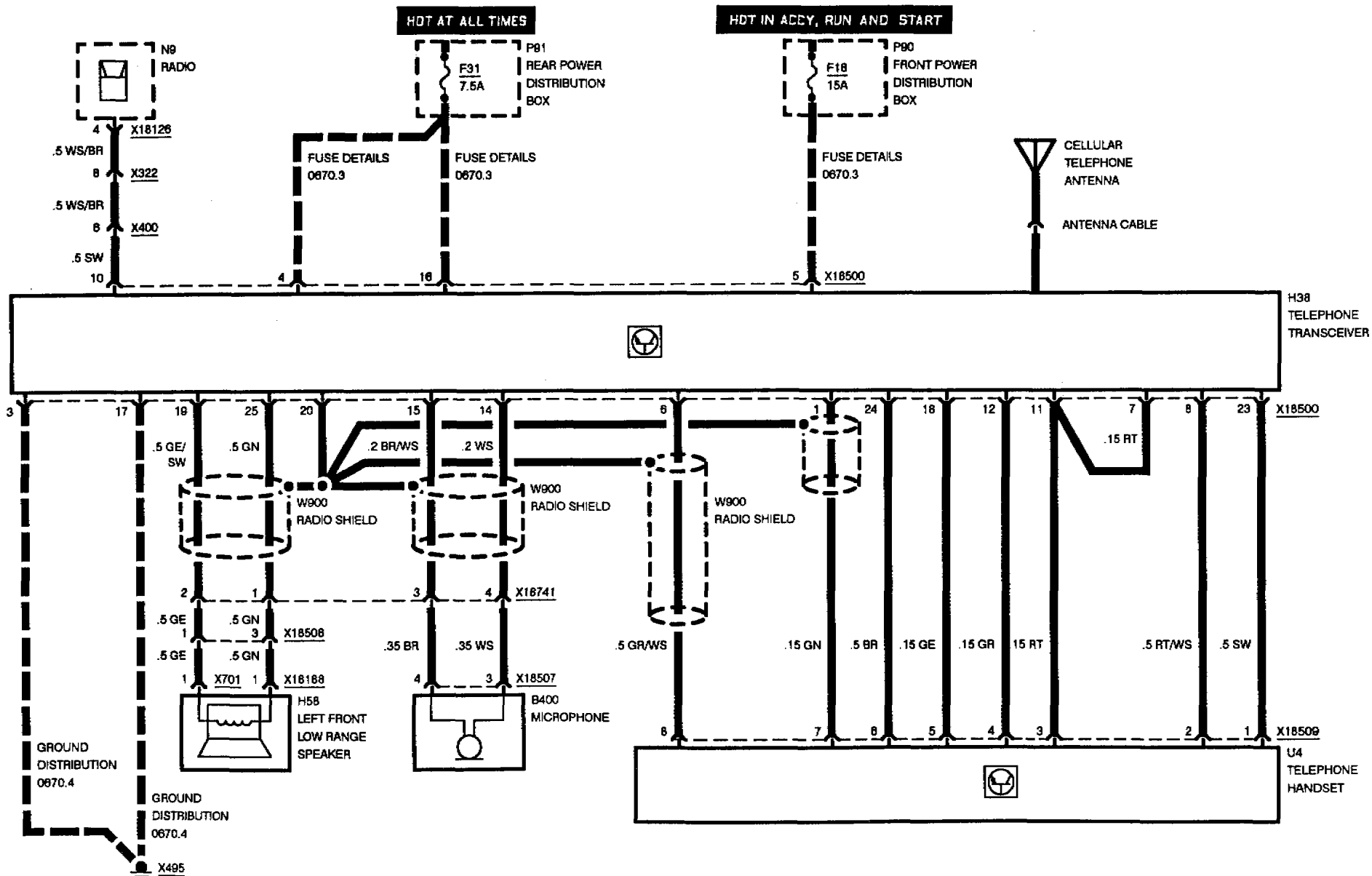
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CELLULAR TELEPHONE (PROVISIONS)

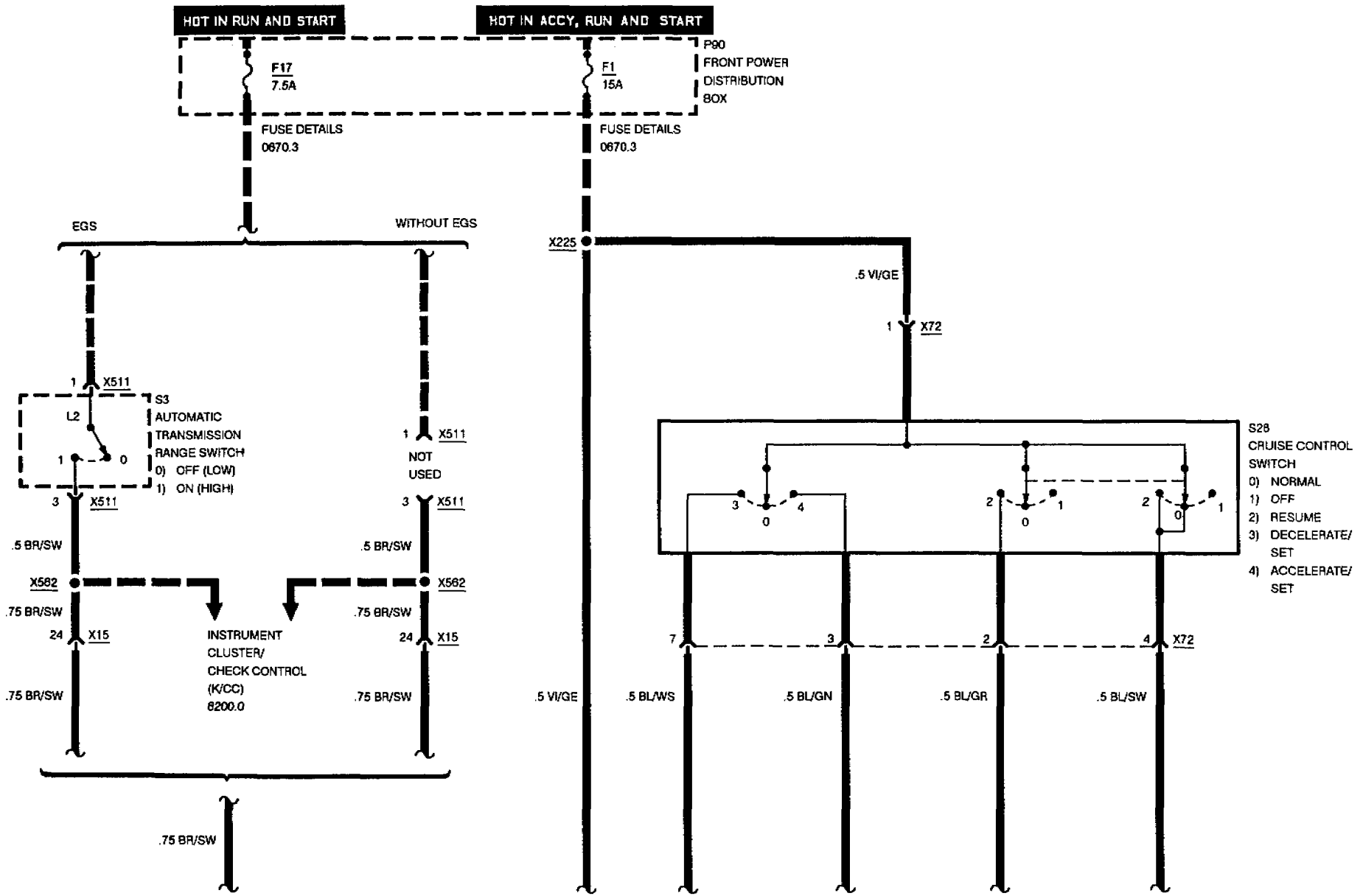
WITHOUT INTERFACE



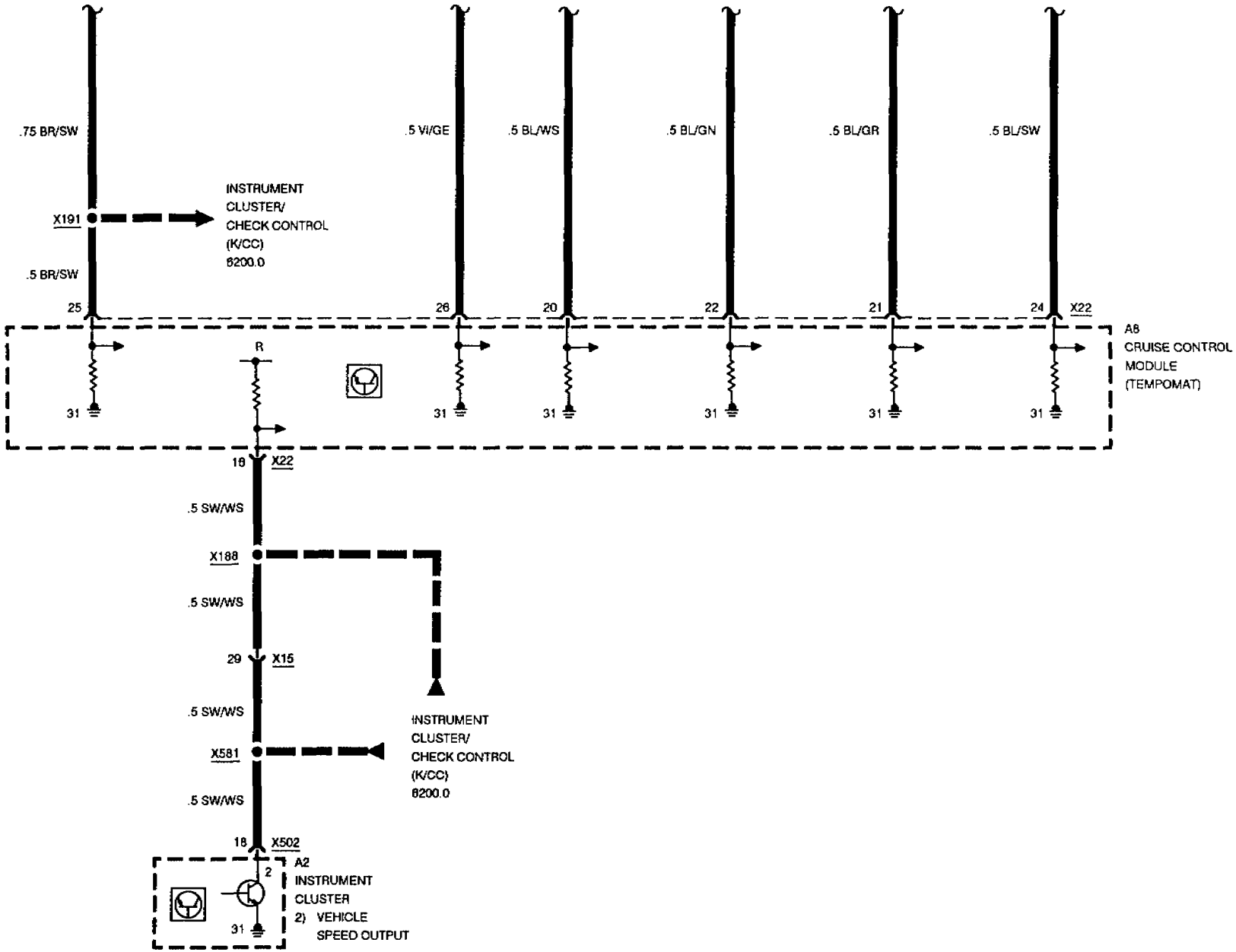
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CRUISE CONTROL (TEMPOMAT)

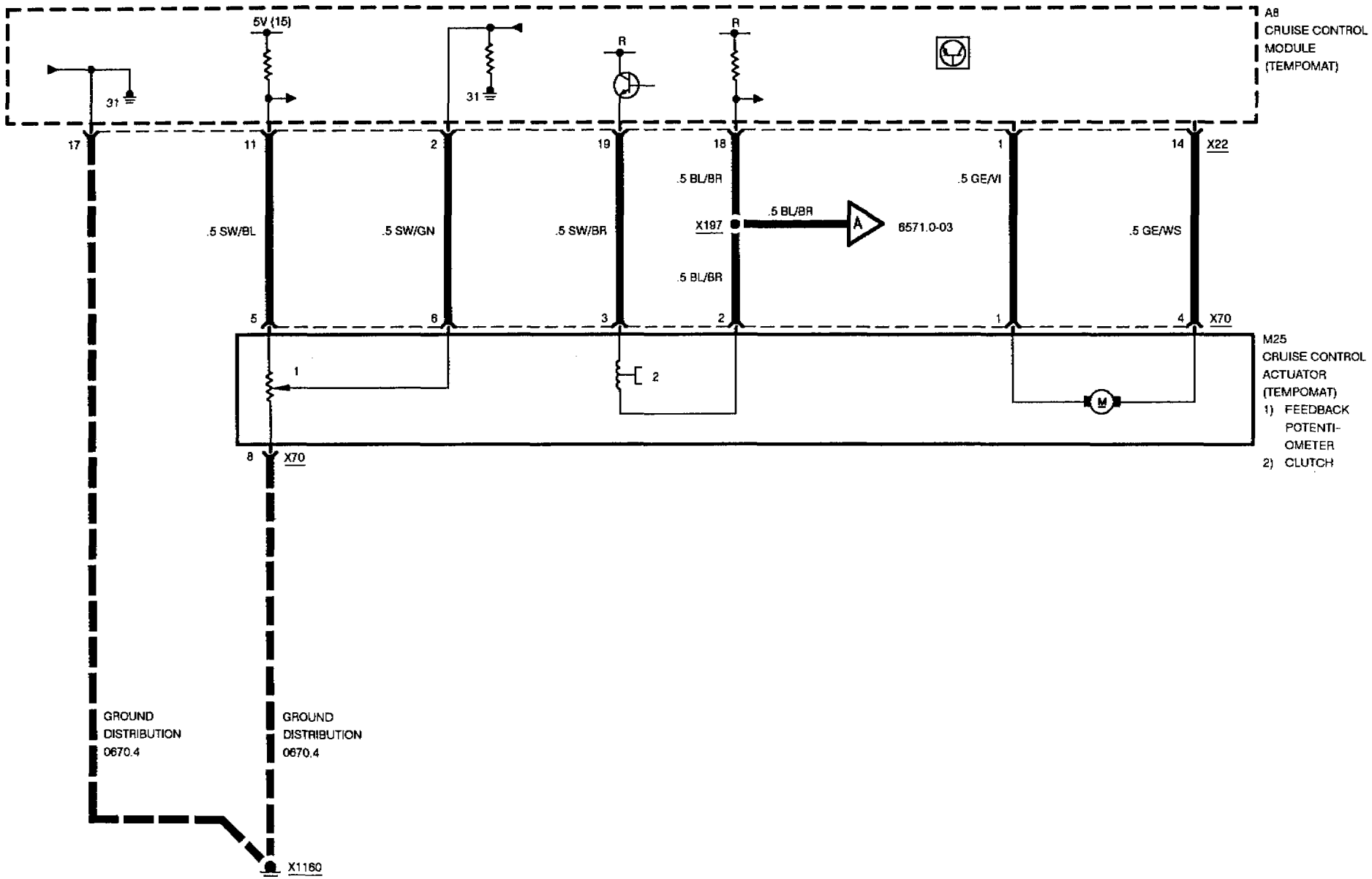


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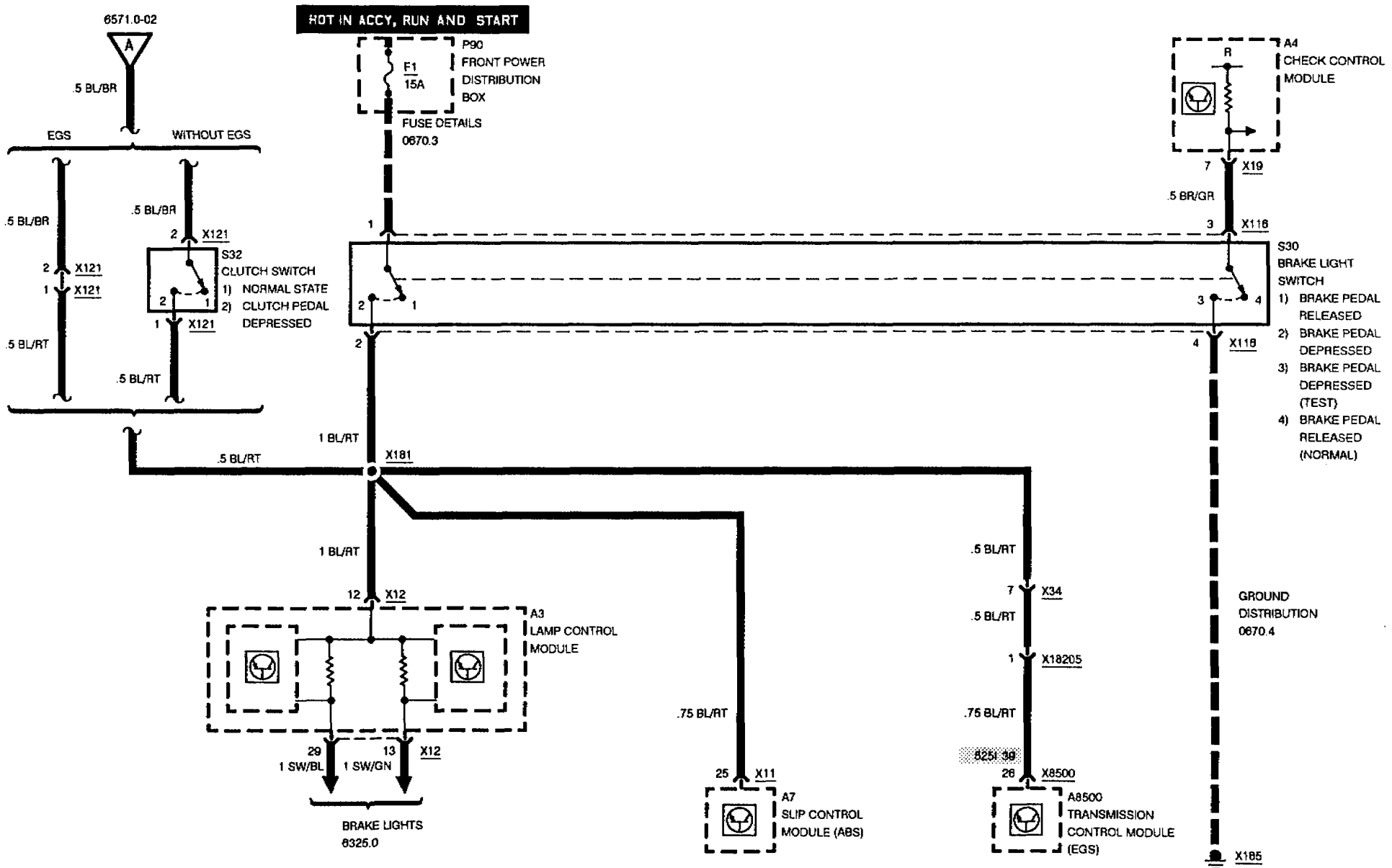
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CRUISE CONTROL (TEMPOMAT)



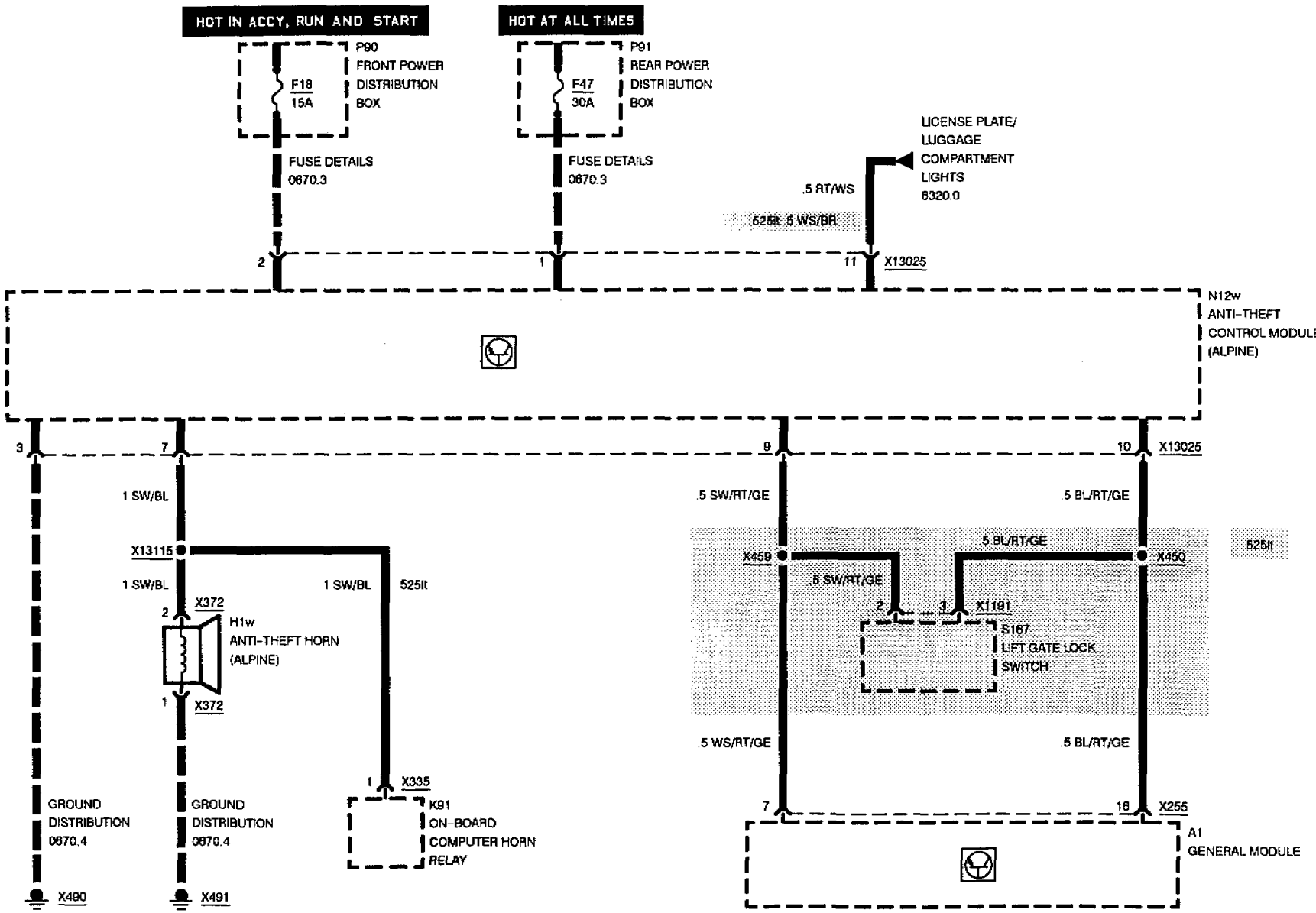
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CRUISE CONTROL (TEMPOMAT)



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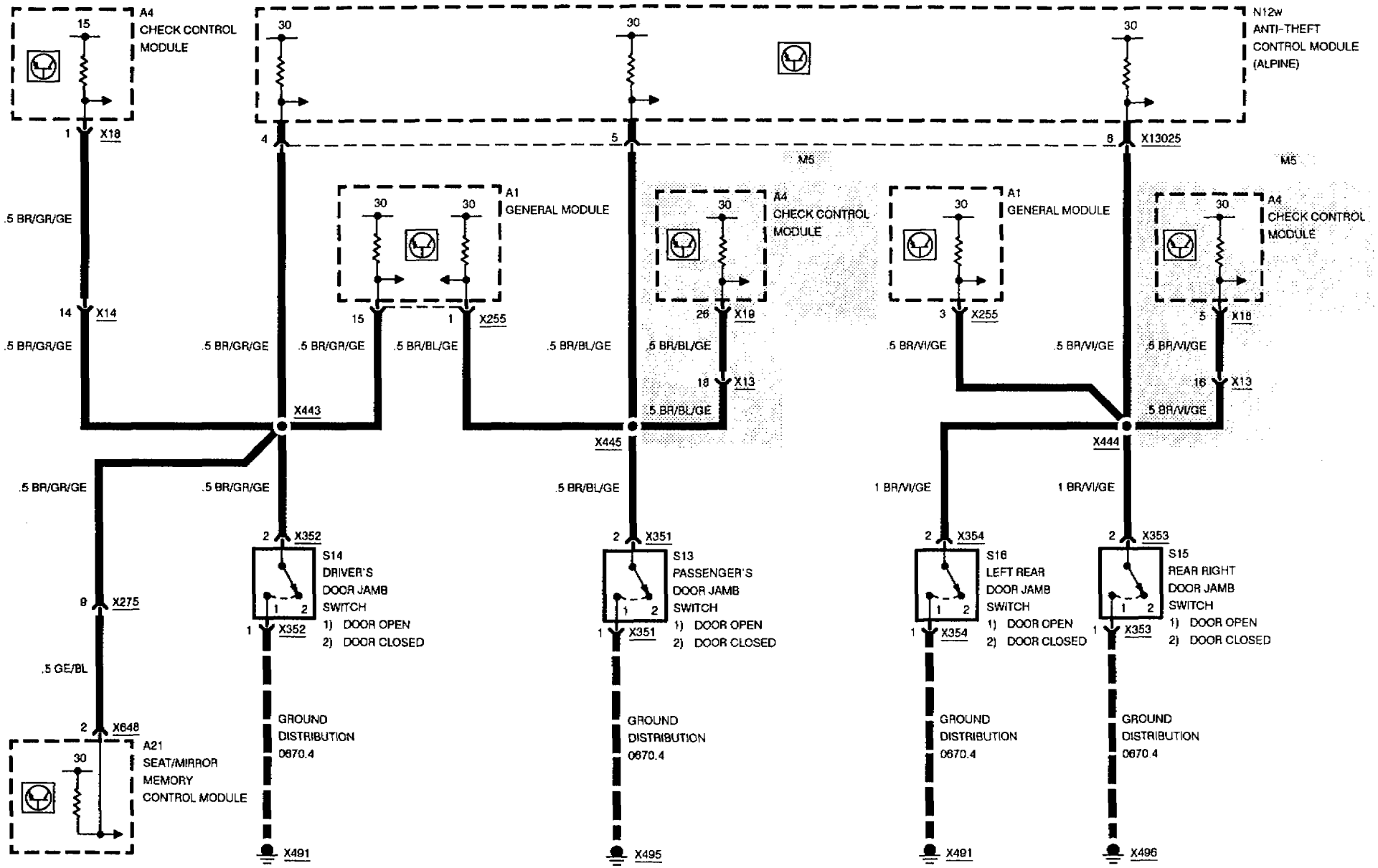
ANTI-THEFT SYSTEM (ALPINE)



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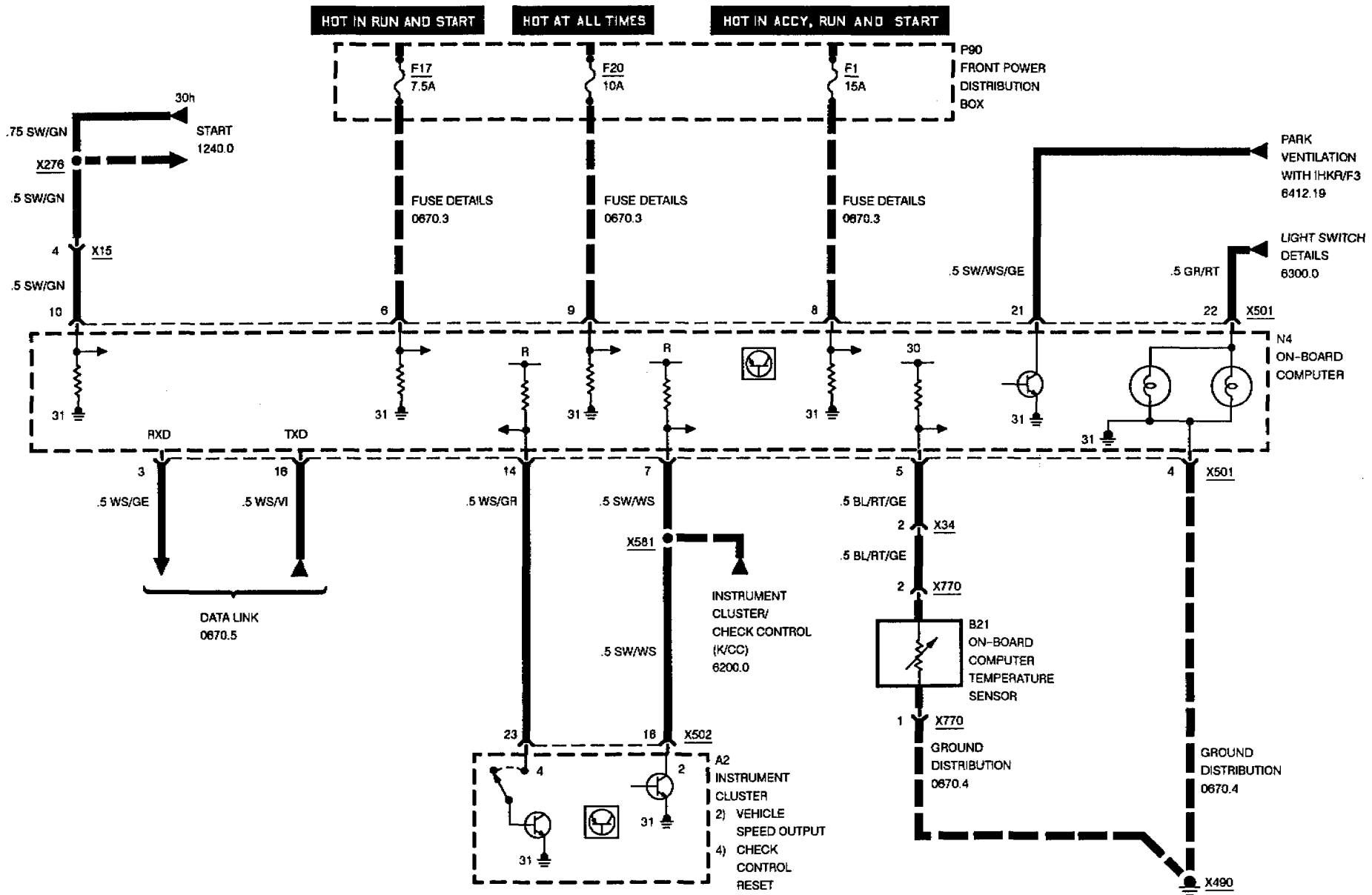
ANTI-THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES



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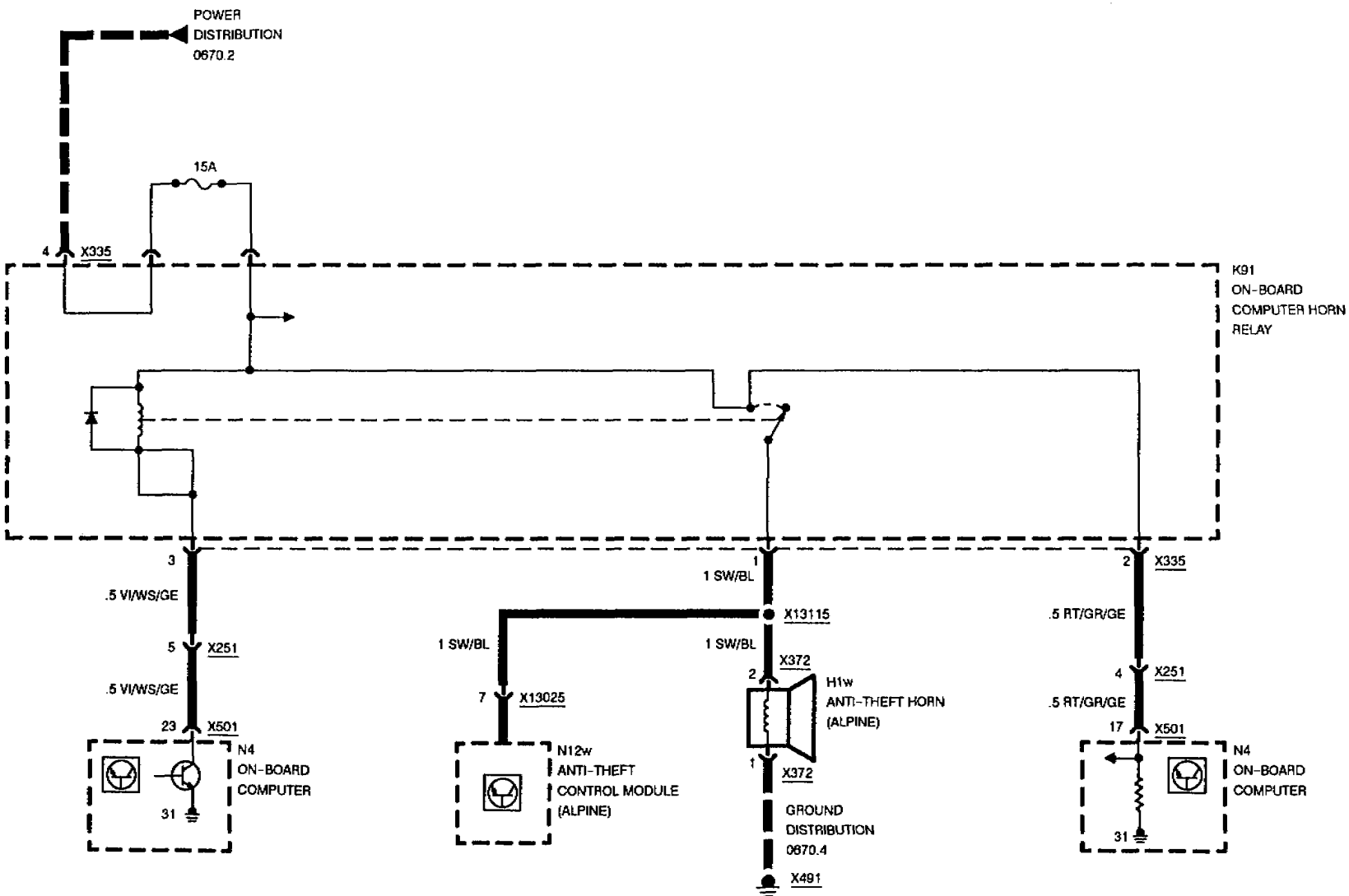
ON-BOARD COMPUTER (BCIV)



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ON-BOARD COMPUTER (BCIV)

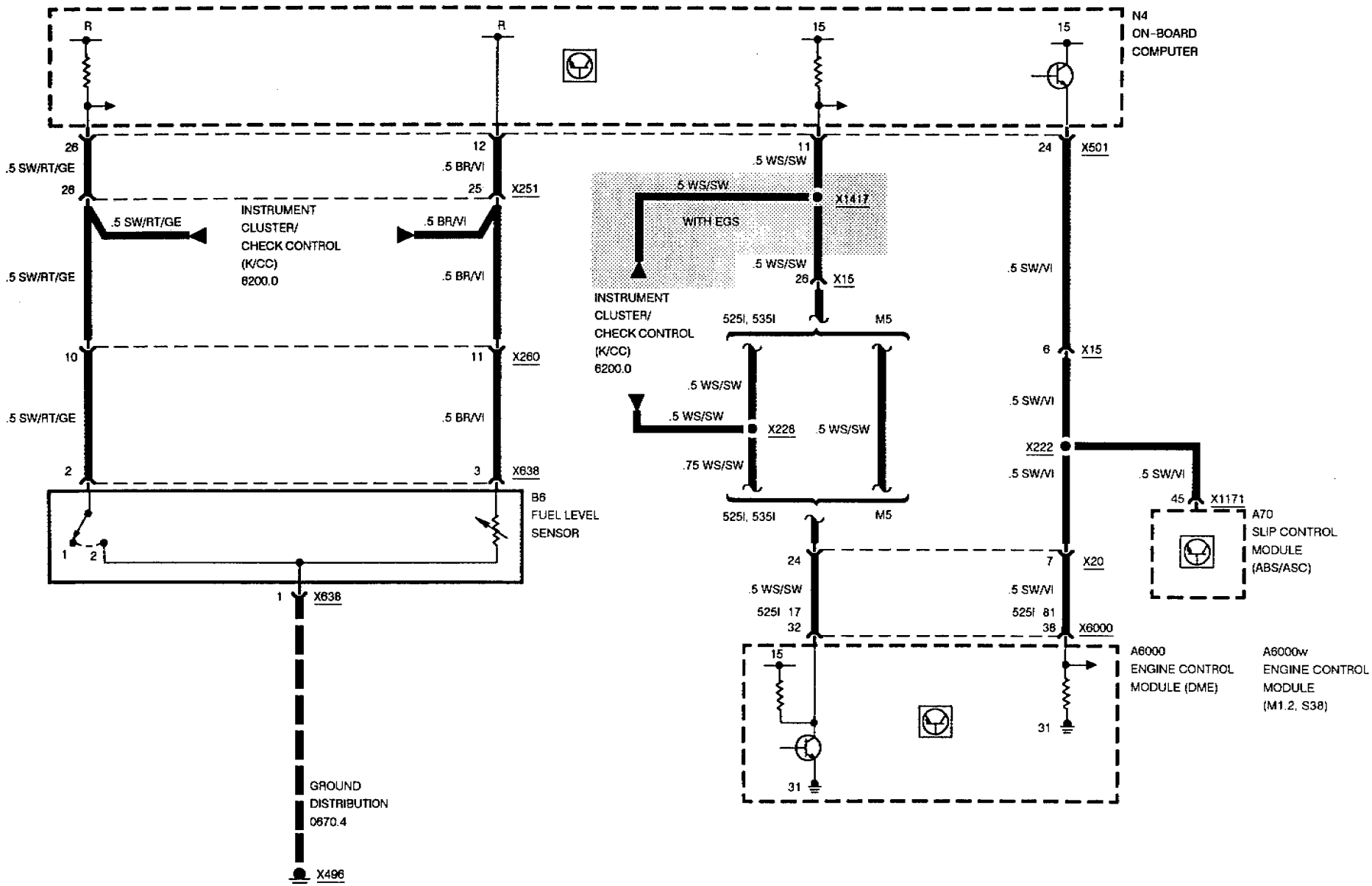
ANTI-THEFT HORN, PARK VENTILATION



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ON-BOARD COMPUTER (BCIV)

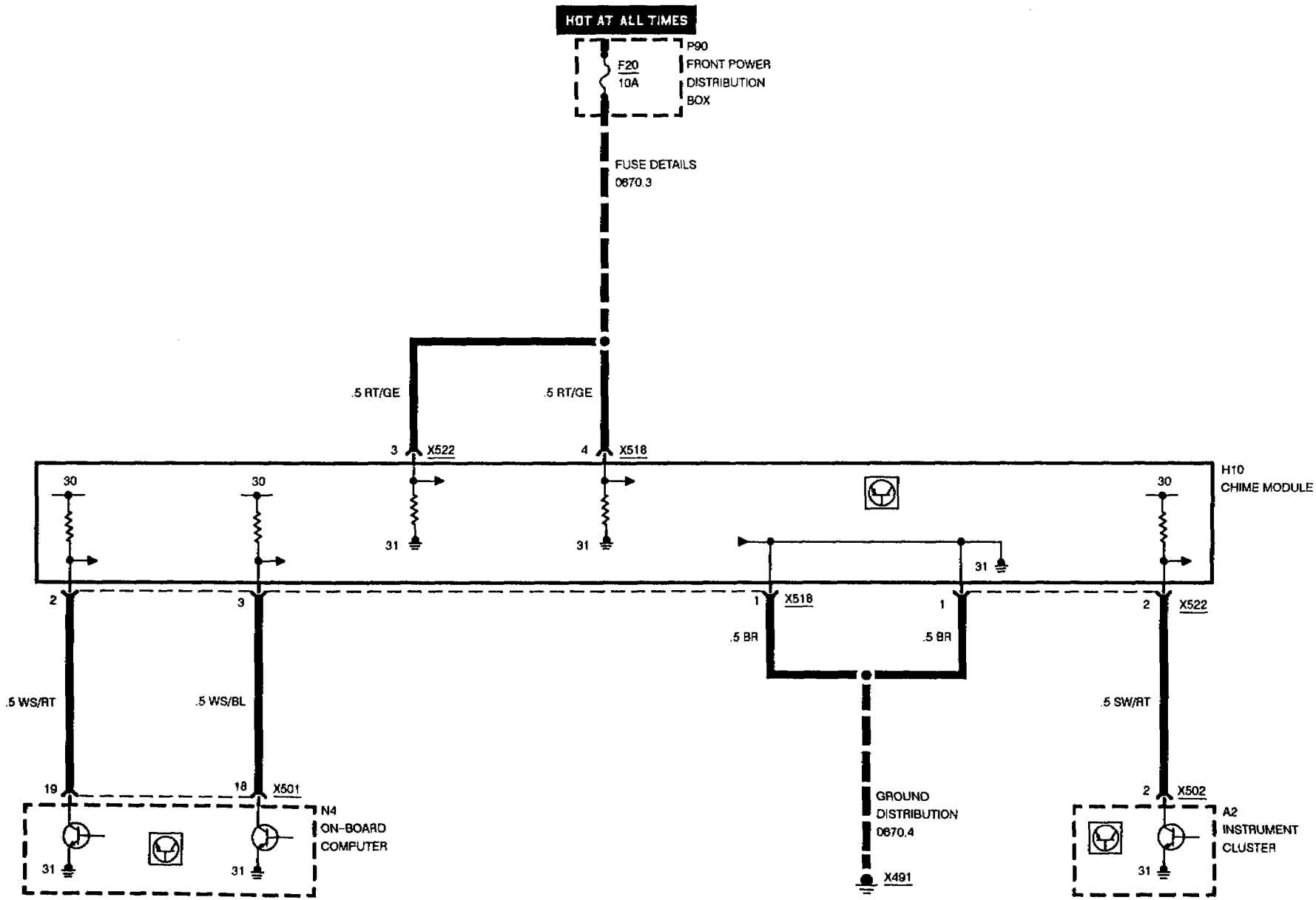
FUEL GAUGE, CODE



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ON-BOARD COMPUTER (BCIV)

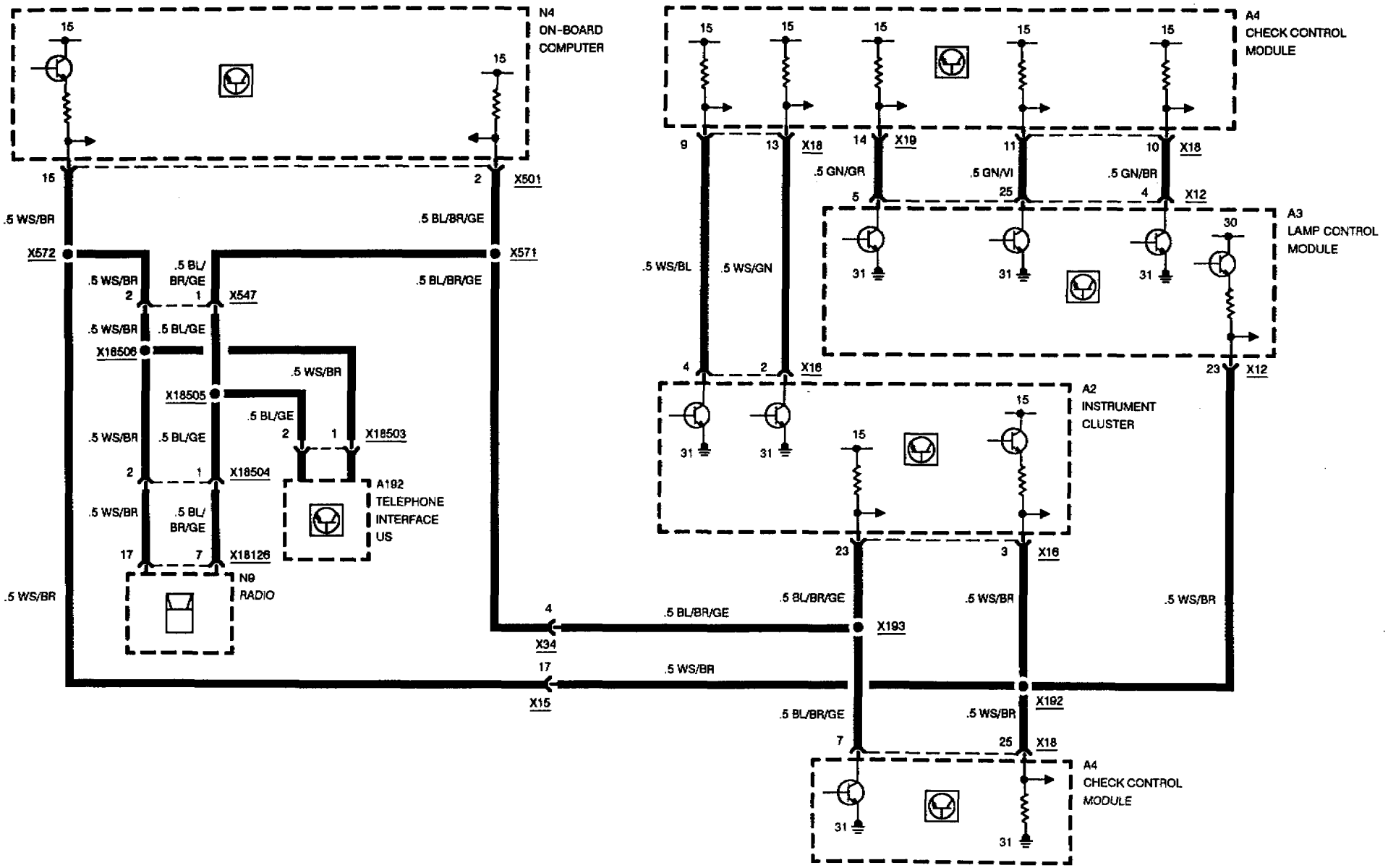
CHIME MODULE



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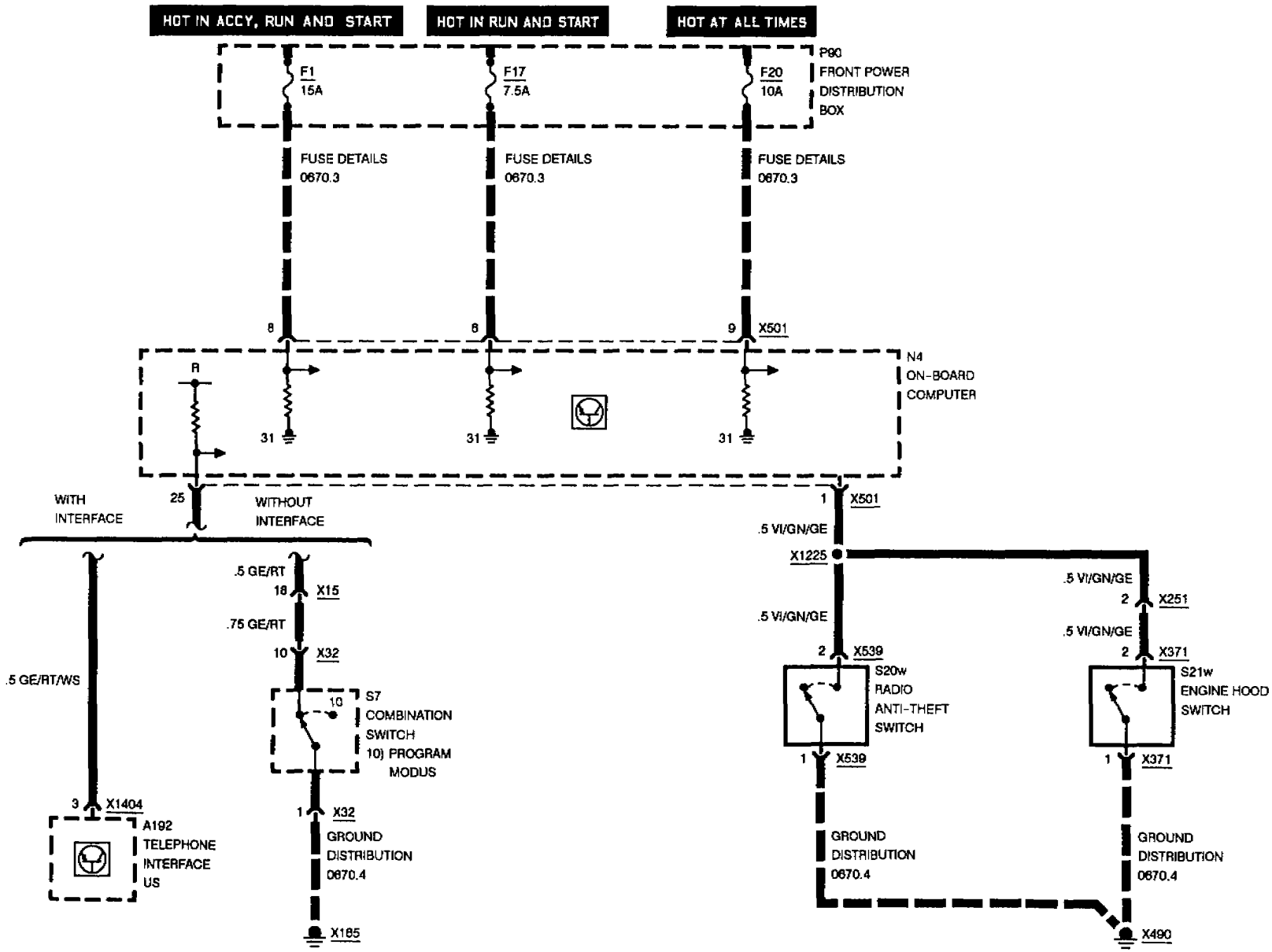
ON-BOARD COMPUTER (BCIV)

DATA LINK



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ON-BOARD COMPUTER (BCIV)



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COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
7100.0 8500.0

A1	GENERAL MODULE	In Rear Power Distribution Box	
A2	INSTRUMENT CLUSTER	LH side of dash	
A3	LAMP CONTROL MODULE	In Front Power Distribution Box	
A4	CHECK CONTROL MODULE	In Front Power Distribution Box	
A5	RELAY MODULE	In Rear Power Distribution Box	
A8	CRUISE CONTROL MODULE (TEMPOMAT)	Below LH side of dash	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	LH footwell	19-3
A17	SERVOTRONIC CONTROL MODULE	Behind LH footwell trim	18-2
A18	HIFI AMPLIFIER	In LH rear side of luggage compartment	32-1
A18	HIFI AMPLIFIER	In LH rear side of luggage compartment	32-2
A21	SEAT/MIRROR MEMORY CONTROL MODULE	Underside of LH front seat	24-1
A36	REAR WIPER/WASHER INTERVAL CONTROL MODULE	RH side of luggage compartment	33-2
A99	DOUBLE PANEL POWER SUNROOF CONTROL MODULE	In roof panel	31-1
A22z	ELECTROCHROMIC REAR VIEW MIRROR	Center of windshield header	
A552	A/C COMPRESSOR CONTROL MODULE	RH side of LH footwell behind LH footwell trim	18-1
A87w	INTEGRATED CLIMATE REGULATION CONTROL MODULE (IHKR/F3)	LH side of RH footwell	21-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
A6000	ENGINE CONTROL MODULE (DME)	In E-Box		
B1	RIGHT FRONT SPEED SENSOR – ABS	Behind RH front wheel		
B2	LEFT FRONT SPEED SENSOR – ABS	Behind LH front wheel	06-1	
B3	RIGHT REAR SPEED SENSOR – ABS	Behind RH rear wheel	06-2	
B4	LEFT REAR SPEED SENSOR – ABS	Behind LH rear wheel		
B6	FUEL LEVEL SENSOR	In RH side of luggage compartment	32-3	
B10	VEHICLE SPEED SENSOR	Under rear of car	07-2	
B11	LH HEAT EXCHANGER TEMPERATURE SENSOR	LH side of IHKR/F3 Plenum	21-2	
B12	RH HEAT EXCHANGER TEMPERATURE SENSOR	LH side of RH footwell	21-3	
B13	OUTSIDE TEMPERATURE SENSOR	Rear LH side of engine compartment	17-2	
B14	EVAPORATOR TEMPERATURE SENSOR	LH side of IHKR/F3 Plenum	21-2	
B15	ELECTRO- HYDRAULIC CONVERTER (SERVOTRONIC)	Behind LH front wheel		
B16	LEFT FRONT BRAKE PAD SENSOR	Behind LH front wheel	06-1	
B17	RIGHT REAR BRAKE PAD SENSOR	Behind RH rear wheel	06-2	
B18	BRAKE FLUID LEVEL SWITCH	LH side of engine compartment	10-3	
B21	ON-BOARD COMPUTER TEMPERATURE SENSOR	Under LH front bumper	06-3	
B55	DOUBLE PANEL POWER SUN ROOF SENSOR II	In roof panel	31-1	
B56	INTERIOR TEMPERATURE SENSOR	Middle of heater control panel		
B900	JUMPER PLUG	In Front Power Distribution Box	08-1	

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COMPONENT LOCATION CHART

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COMPONENT		PAGE – FIGURE 7100.0	8500.0
B6200 . HEATED OXYGEN SENSOR	On catalytic converter		
B6201 . CYLINDER IDENTIFICATION SENSOR	Top front of engine	11-3	
B6201 . CYLINDER IDENTIFICATION SENSOR	RH side of engine (M5)	13-1	
B6202 . CRANKSHAFT POSITION/RPM SENSOR	Top front of engine	11-3	
B6202 . CRANKSHAFT POSITION/RPM SENSOR	RH side of engine (M5)	13-1	
B6203 . CRANKSHAFT POSITION/RPM SENSOR	Front of engine		
B6204 . CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	Front of engine	12-1	
B6205 . INTAKE AIR TEMPERATURE SENSOR	Front of engine on coolant inlet	14-3	
B6206 . MASS AIR FLOW SENSOR	RH front of engine		
B6209 . HALL EFFECT CAMSHAFT SENSOR	Top front of engine		
B6217 . HOT WIRE AIR MASS METER	Top front of engine		
B6230 . OIL LEVEL SENSOR	Underside of oil pan	07-1	
B6231 . OIL PRESSURE SWITCH	Rear of engine	11-1	
B6231 . OIL PRESSURE SWITCH	Rear of engine below intake manifold	11-2	
B6231 . OIL PRESSURE SWITCH	Front of engine	12-1	
B6232 . ENGINE COOLANT TEMPERATURE SENSOR	Front of engine	12-1	
B6232 . ENGINE COOLANT TEMPERATURE SENSOR	Front of engine	12-3	
B6233 . VOLUME AIR FLOW SENSOR	Top center of engine	14-1	
B6234 . ENGINE COOLANT TEMP. SENSOR (EML)	Front of engine	12-3	

COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
B6235	TEMPERATURE SWITCH	In E-Box		15-1
B6235	TEMPERATURE SWITCH	In E-Box		15-2
B6236	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine		12-1
B6236	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine		12-2
B6236	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine		12-3
B6238	OIL TEMPERATURE SENSOR	Rear LH side of engine compartment		
B9508	PRESSURE SWITCH	Front RH side of engine compartment		16-2
C100	CONTACT RING	Top of steering column		22-1
C900	SUPPRESSION FILTER	In upper RH C-pillar		30-2
D100	DATA LINK CONNECTOR	Rear LH side of engine compartment		14-1
E9	REAR DEFOGGER I	In rear window		
E10	REAR DEFOGGER/ANTENNA	In rear window		
E13	LEFT LOW BEAM LIGHT	Front of car left		
E14	RIGHT LOW BEAM LIGHT	Front of car right		
E15	LEFT PARK LIGHT	Front of car left		
E16	LEFT REAR LIGHT ASSEMBLY	Rear of car left		
E17	RIGHT REAR LIGHT ASSEMBLY	Rear of car right		
E19	RIGHT PARK LIGHT	Front of car right		
E26	LEFT FOG LIGHT	Front of car left		
E27	RIGHT FOG LIGHT	Front of car right		

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COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
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E28 ...	FRONT CIGAR LIGHTER	Center console
E29 ...	FRONT CIGAR LIGHTER LIGHT	Center of dash below front of console
E30 ...	REAR CIGAR LIGHTER	Center console
E31 ...	REAR CIGAR LIGHTER LIGHT	Center console
E33 ...	TRUNK LID LIGHT	Underside of trunk lid
E34 ...	FRONT DOME LIGHT/MAP READING ASSEMBLY	Center of windshield header
E35 ...	DRIVER'S MAKEUP MIRROR LIGHT	Center of windshield header
E36 ...	PASSENGER'S MAKEUP MIRROR LIGHT	Center of windshield header
E39 ...	LEFT REAR INTERIOR LIGHT	In upper LH C-pillar ... 30-3
E40 ...	RIGHT REAR INTERIOR LIGHT	In upper RH C-pillar
E41 ...	DASH LIGHT	Center of dash
E42 ...	GLOVE BOX LIGHT	RH side of glove box above
E43 ...	LEFT LICENSE PLATE LIGHT	Underside of trunk lid
E44 ...	RIGHT LICENSE PLATE LIGHT	Underside of trunk lid
E46 ...	LEFT TRUNK LIGHT ASSEMBLY	Underside of trunk lid
E47 ...	RIGHT TRUNK LIGHT ASSEMBLY	Underside of trunk lid
E48 ...	DOOR LOCK HEATER	LH front door in door at key lock assembly
E51 ...	LEFT WASHER JET HEATER	On underside of engine hood ... 17-3
E52 ...	RIGHT WASHER JET HEATER	On underside of engine hood ... 17-3
E56 ...	DRIVER'S SEATBACK HEATER	In lower LH front seatback

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
E57	DRIVER'S SEAT HEATER	Underside of LH front seat		
E58	PASSENGER'S SEAT HEATER	Underside of RH front seat		
E59	PASSENGER'S SEATBACK HEATER	In lower RH front seatback		
E45y	CASSETTE BOX LIGHT	Center console		
E9000	RIGHT FRONT LIGHT ASSEMBLY	Right		
E9001	LEFT FRONT LIGHT ASSEMBLY	Left		
E9500	TRANSMISSION RANGE SELECTOR LIGHT	Center console near gearshift lever		
F0	FUSIBLE LINK	Below RH side of rear seat near battery		29-3
F52	FUSE (10A)	In LH auxiliary relay box, engine compartment		09-3
F56	AUTOMATIC CUT-OUT	In LH auxiliary relay box, engine compartment		09-3
G1	BATTERY	Below RH side of rear seat		29-3
G5	DRIVER'S AIR BAG GENERATOR	Top of steering column		22-1
G6509	GENERATOR	In the engine compartment		
H2	LEFT HORN	Front LH side of engine compartment		16-1
H3	RIGHT HORN	Front RH side of engine compartment		16-1
H4	RIGHT FRONT TURN LIGHT	Front of car		
H5	RIGHT REAR TURN LIGHT	RH side of body rear end		
H6	LEFT REAR TURN LIGHT	LH side of body rear end		
H7	LEFT FRONT TURN LIGHT	Front of car		
H8	RIGHT FRONT AUXILIARY TURN LIGHT	Front of car		

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COMPONENT LOCATION CHART

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COMPONENT			PAGE - FIGURE 7100.0 8500.0
H9	LEFT FRONT AUXILIARY TURN LIGHT	Front of car	
H10	CHIME MODULE	LH footwell	20-2
H1w	ANTI-THEFT HORN (ALPINE)	Rear LH side of engine compartment	17-2
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	LH side of body rear end	
H27	LEFT BACK UP LIGHT	LH side of body rear end	
H28	RIGHT BACK UP LIGHT	RH side of body rear end	
H29	RIGHT REAR FOG LIGHT	RH side of body rear end	
H30	RIGHT TAIL LIGHT	RH side of body rear end	
H31	RIGHT BRAKE LIGHT	RH side of body rear end	
H34	HIGH LEVEL STOP LIGHT	At back of rear window shelf	
H45	RIGHT REAR SPEAKER	At back of rear window shelf	
H46	LEFT REAR SPEAKER	At back of rear window shelf	
H50	RIGHT FRONT HIGH RANGE SPEAKER	In upper RH front door	
H51	RIGHT FRONT LOW RANGE SPEAKER	Behind RH footwell speaker grille	
H52	RIGHT REAR LOW RANGE SPEAKER	Under rear window shelf	
H53	RIGHT REAR HIGH RANGE SPEAKER	Under rear window shelf	
H54	RIGHT FRONT MIDRANGE SPEAKER	In upper RH front door	
H55	LEFT FRONT MIDRANGE SPEAKER	In upper LH front door	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
H56	LEFT REAR HIGH RANGE SPEAKER	Under rear window shelf		
H57	LEFT REAR LOW RANGE SPEAKER	Under rear window shelf		
H58	LEFT FRONT LOW RANGE SPEAKER	Behind LH footwell speaker grille		
H59	LEFT FRONT HIGH RANGE SPEAKER	In upper LH front door		
H90	LEFT TRUNK LIGHT	In LH forward side of luggage compartment		
K1	STARTER RELAY	In Front Power Distribution Box		08-1
K2	HORN RELAY	In Front Power Distribution Box		08-1
K3	UNLOADER RELAY, TERMINAL R	In Front Power Distribution Box		08-1
K4	BLOWER RELAY	In Front Power Distribution Box		08-1
K5	WASHER PUMP RELAY	In Front Power Distribution Box		07-3
K8	AUXILIARY WATER PUMP RELAY	In Front Power Distribution Box		08-1
K9	UNLOADER RELAY, TERMINAL 15	In Front Power Distribution Box		07-3
K10	ABS RELAY	In Front Power Distribution Box		08-2
K11	WIPER RELAY	In Rear Power Distribution Box		28-3
K13	REAR DEFOGGER RELAY	In Rear Power Distribution Box		28-3
K15	ELECTRIC POWER PROTECTION RELAY	In Rear Power Distribution Box		28-3
K16	HAZARD FLASHER RELAY	In Front Power Distribution Box		08-2
K19	COMPRESSOR CONTROL RELAY	In Front Power Distribution Box		07-3
K21	NORMAL SPEED RELAY	In LH auxiliary relay box, engine compartment		09-3
K22	HIGH SPEED RELAY	In Front Power Distribution Box		09-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
K25	RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY	Below LH side of dash near hood release lever	
K26	LEFT PARK LIGHT RELAY	Below LH side of dash near hood release lever	
K31	CIGAR LIGHTER RELAY	Rear LH side of engine compartment in Front Power Distribution Box	
K46	HIGH BEAM LIGHT RELAY	Rear LH side of engine compartment in Front Power Distribution Box	
K47	FRONT FOG LIGHT RELAY	Rear LH side of engine compartment in Front Power Distribution Box	
K48	LOW BEAM LIGHT RELAY	Rear LH side of engine compartment in Front Power Distribution Box	
K52	WIPER/WASHER RELAY	In LH forward side of luggage compartment	
K53	WIPER MOTOR RELAY	In LH forward side of luggage compartment	
K61	UNLOADER RELAY, TERMINAL 61	In Front Power Distribution Box	08-2
K62	PARK HEATING RELAY	Below LH side of dash	
K70	CENTRAL LOCKING TRUNK LID MOTOR RELAY (ZV)	RH side of luggage compartment	33-2
K86	WIDE OPEN THROTTLE CUT-OFF RELAY	Behind LH footwell trim	18-1
K87	ELECTRIC STEERING COLUMN ADJUSTMENT RELAY	Below LH side of dash	
K89	REAR WINDOW WASHER RELAY	RH side of luggage compartment	33-2
K90	WINDOW MOTOR RELAY	RH side of luggage compartment	33-2
K91	ON-BOARD COMPUTER HORN RELAY	Below LH side of rear seat	29-1

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
K92	REAR WINDOW WIPER RELAY II	RH side of luggage compartment	33-2
K91w	REAR WINDOW WIPER RELAY I	RH side of luggage compartment	33-2
K6300	ENGINE CONTROL MODULE RELAY	In E-Box	15-1
K6300	ENGINE CONTROL MODULE RELAY	In E-Box	15-2
K6301	CYL. 1-6 FUEL PUMP RELAY	In E-Box	15-1
K6301	CYL. 1-6 FUEL PUMP RELAY	In E-Box	15-2
K6302	FUEL PUMP RELAY	Rear RH side of engine compartment in E-Box	
K6303	OXYGEN SENSOR RELAY	In E-Box	15-1
M2	FUEL PUMP	In RH side of luggage compartment	32-3
M3	WIPER MOTOR	Behind LH fresh air cowl	09-1
M4	WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	16-3
M5	INTENSIVE WASH PUMP	Front RH side of engine compartment on washer fluid reservoir	
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	Front RH side of engine compartment near windshield washer reservoir	
M9	AUXILIARY FAN MOTOR	Behind front grille	16-1
M12	DRIVER'S DOOR LOCK MOTOR	In lower LH front door	27-1
M13	PASSENGER'S DOOR LOCK MOTOR	In lower RH front door	27-3
M14	RIGHT REAR DOOR LOCK MOTOR	In lower RH rear door	
M15	LEFT REAR DOOR LOCK MOTOR	In lower LH rear door	
M16	GAS FILLER LOCK MOTOR	In RH side of luggage compartment	33-1
M17	TRUNK LOCK MOTOR	Underside of trunk lid	31-2

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
M20 ...	LEFT REAR WINDOW MOTOR	In lower LH rear door		
M21 ...	DRIVER'S WINDOW MOTOR	In lower LH front door		27-2
M22 ...	RIGHT REAR WINDOW MOTOR	In lower RH rear door		
M23 ...	PASSENGER'S WINDOW MOTOR	In lower RH front door		28-1
M24 ...	SUNROOF MOTOR	Center of windshield header near rear view mirror		23-3
M25 ...	CRUISE CONTROL ACTUATOR (TEMPOMAT)	LH side of engine compartment		09-2
M27 ...	REAR LEFT HEADREST MOTOR	In upper LH front seatback		
M28 ...	REAR RIGHT HEADREST MOTOR	In upper RH front seatback		
M30 ...	BLOWER MOTOR	Rear LH side of engine compartment		17-2
M34 ...	DASH VENT MIXING FLAP MOTOR	LH side of RH footwell		21-3
M36 ...	FRESH AIR FLAP MOTOR	LH side of IHKR/F3 Plenum		21-2
M40 ...	RECIRCULATION FLAP MOTOR	LH side of IHKR/F3 Plenum		21-2
M50 ...	DRIVER'S SEAT CUSHION TILT MOTOR	Underside of LH front seat		25-2
M51 ...	DRIVER'S SEAT MOVEMENT MOTOR	Underside of LH front seat		25-2
M52 ...	DRIVER'S SEAT HEIGHT MOTOR	Underside of LH front seat		25-2
M53 ...	DRIVER'S SEATBACK RECLINER MOTOR	Underside of LH front seat		25-2
M54 ...	DRIVER'S HEADREST MOTOR	In upper LH front seatback		28-2
M55 ...	DRIVER'S SEAT LUMBAR SUPPORT MOTOR	Under LH front seat		
M56 ...	PASSENGER'S SEAT LUMBAR SUPPORT MOTOR	Under RH front seat		
M57 ...	PASSENGER'S SEAT HEADREST MOTOR	In upper RH front seatback		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
M58	PASSENGER'S SEATBACK RECLINER MOTOR	Under RH front seat	
M59	PASSENGER'S SEAT HEIGHT MOTOR	Under RH front seat	
M60	PASSENGER'S SEAT MOVEMENT MOTOR	Under RH front seat	
M61	PASSENGER'S SEAT CUSHION TILT MOTOR	Under RH front seat	
M65	DRIVER'S THIGH SUPPORT MOTOR	Underside of LH front seat	25-2
M66	PASSENGER'S THIGH SUPPORT MOTOR	Under RH front seat	
M74	SUN BLIND MOTOR	At back of rear window shelf	
M80	LEFT HEADLIGHT WIDENING MOTOR	Near LH headlight assembly	
M81	RIGHT HEADLIGHT WIDENING MOTOR	Near RH headlight assembly	
M82	STEERING COLUMN LENGTH ADJUST MOTOR	Bottom of steering column	20-3
M87	MOTOR DRIVE I DOUBLE PANEL POWER SUNROOF	In roof panel	
M88	MOTOR DRIVE II DOUBLE PANEL POWER SUNROOF	In roof panel	31-1
M94	REAR WINDOW WIPER MOTOR	Rear of luggage compartment on lift gate behind trim panel	
M95	REAR WINDOW WASHER PUMP	RH side of luggage compartment	33-3
M96	REAR WINDOW MOTOR	Rear of luggage compartment on lift gate behind trim panel	31-3
M97	LIFT GATE MOTOR	Rear of luggage compartment on lift gate behind trim panel	31-3
M37a	AUXILIARY WATER PUMP	Rear LH side of engine compartment	08-3
M6133	AIR PUMP	Top front of engine	11-3
M6350	ELECTRONIC THROTTLE ACTUATOR (EML)	Top LH side of engine	14-1

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COMPONENT LOCATION CHART

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COMPONENT			PAGE - FIGURE 7100.0 8500.0
M6506	E-BOX FAN	Rear RH side of engine compartment in E-Box	
M6510	STARTER	LH side of engine compartment below intake manifold	
N1	ANTI-THEFT CONTROL MODULE (DWA)	Below LH side of rear seat inside box on interior side of RH door sill	
N3	DIMMER	LH side of dash	
N4	ON-BOARD COMPUTER	Center of dash	
N6	HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)	In LH auxiliary relay box, engine compartment	09-3
N8	ANTENNA AMPLIFIER AM/FM	In upper LH C-pillar	30-3
N9	RADIO	Center of dash	22-3
N17	CRASH CONTROL MODULE	In Front Power Distribution Box	08-2
N22	CD CHANGER	In luggage compartment	32-2
N50	CLOCK	Center of dash	
N12w	ANTI-THEFT CONTROL MODULE (ALPINE)	Below RH side of rear seat	
N404	DIVERSITY	In upper LH C-pillar	
N444	FM AMPLIFIER HLO	In upper LH C-pillar	
P90	FRONT POWER DISTRIBUTION BOX	Rear LH side of engine compartment	14-1
P91	REAR POWER DISTRIBUTION BOX	Below LH side of rear seat	
P92	AUXILIARY RELAY BOX	LH side of engine compartment	09-2
P93	E-BOX	Rear RH side of engine compartment	
P95	AUXILIARY FUSE BOX	LH side of engine compartment	

COMPONENT LOCATION CHART

COMPONENT

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P96	AUXILIARY FUSE BOX IN LUGGAGE COMPARTMENT	Below LH side of rear seat in Rear Power Distribution Box	
R1	MIXING ACTUATOR	RH side of LH footwell	
R5	HEADREST POTENTIOMETER	In lower LH front seatback	28-2
R6	SEAT HEIGHT POTENTIOMETER	Underside of LH front seat	24-3
R7	SEATBACK POTENTIOMETER	Underside of LH front seat	24-3
R8	SEAT CUSHION REAR HEIGHT POTENTIOMETER	Underside of LH front seat	24-2
R9	SEAT CUSHION MOVEMENT POTENTIOMETER	Underside of LH front seat	24-2
R10	PEDAL POSITION SENSOR	On rear of throttle body	21-1
R11	BLOWER RESISTORS	LH side of IHKR/F3 Plenum	21-2
R15	THIGH SUPPORT POTENTIOMETER	In lower LH front seatback	
R6240	RESISTOR	In the engine compartment	
R6252	ACCELERATOR PEDAL POSITION SENSOR	Top front of engine compartment	
R6253	ACCELERATOR PEDAL POSITION SENSOR	Top front of engine compartment	
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	Front of gearshift selector	23-2
S4	HORN SWITCH	Top of steering column	
S5	WIPER/WASHER SWITCH	Top of steering column	
S6	ASC SWITCH	Center of console	
S7	COMBINATION SWITCH	Top of steering column	
S8	LIGHT SWITCH	LH side of dash	

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
S9	LIGHT SWITCH	LH side of dash		
S10	FOG LIGHT SWITCH	LH side of dash		
S12	MEMORY MIRRORS CONTROL SWITCH	In upper LH front door		
S13	PASSENGER'S DOOR JAMB SWITCH	Ahead of RH rear door		30-1
S14	DRIVER'S DOOR JAMB SWITCH	Ahead of LH rear door		30-1
S15	REAR RIGHT DOOR JAMB SWITCH	Rear RH door pillar		30-1
S16	LEFT REAR DOOR JAMB SWITCH	LH rear door jamb		30-1
S17	MIRROR CONTROL SWITCH	In upper LH front door		
S18	HAZARD SWITCH	Center console below		
S23	TRUNK LOCK SWITCH (DWA)	Underside of trunk lid		31-2
S27	INERTIA SWITCH	Below LH side of rear seat		29-1
S28	CRUISE CONTROL SWITCH	Top of steering column behind steering wheel		
S30	BRAKE LIGHT SWITCH	LH side of dash on brake pedal support bracket		19-1
S31	PARK BRAKE SWITCH	Below center of console		
S32	CLUTCH SWITCH	LH side of dash on clutch pedal support bracket		19-1
S36	TEMPERATURE SWITCH	RH top of radiator		15-3
S37	GLOVE BOX LIGHT SWITCH	LH side of glove box		23-1
S38	SUNROOF SWITCH	Center of windshield header near rear view mirror		23-3
S39	SUNROOF POSITION SWITCH	Center of windshield header near rear view mirror		23-3
S40	FRONT CONSOLE WINDOW SWITCH ASSEMBLY	Center console		

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COMPONENT LOCATION CHART

COMPONENT

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S41 ...	LEFT REAR WINDOW SWITCH	In upper LH rear door
S42 ...	RIGHT REAR WINDOW SWITCH	In upper RH rear door
S43 ...	DRIVER'S WINDOW LIMIT SWITCH	In upper LH front door
S44 ...	PASSENGER'S WINDOW LIMIT SWITCH	In upper RH front door
S45 ...	LEFT REAR WINDOW LIMIT SWITCH	In upper LH rear door
S46 ...	RIGHT REAR WINDOW LIMIT SWITCH	In upper RH rear door
S47 ...	DRIVER'S DOOR LOCK SWITCH	LH front door behind door panel
S48 ...	DRIVER'S DOOR HANDLE SWITCH	LH front door behind door panel
S49 ...	PASSENGER'S DOOR LOCK SWITCH	RH front door
S51 ...	DRIVER'S SEAT SEAT CONTROL SWITCH ...	In rear of console
S52 ...	DRIVER'S SEAT LUMBAR SWITCH	In rear of console
S53 ...	DRIVER'S SEAT, SEAT HEATER SWITCH	In rear of console
S54 ...	PASSENGER'S SEAT, SEAT HEATER SWITCH	In rear of console
S55 ...	PASSENGER'S SEAT LUMBAR SUPPORT SWITCH	In rear of console
S56 ...	PASSENGER'S SEAT, SEAT CONTROL SWITCH	In rear of console
S57 ...	MEMORY SEAT MIRRORS SWITCH	In rear of console
S58 ...	DRIVER'S SEAT BELT SWITCH	In LH front seat belt buckle
S61 ...	TRUNK LID SWITCH	Underside of trunk lid left
S63 ...	ENGINE COOLANT LEVEL SWITCH	Top rear of engine 14-1
S63 ...	ENGINE COOLANT LEVEL SWITCH	Top center of engine ahead of oil fill cap 14-2

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
S63	ENGINE COOLANT LEVEL SWITCH	Front RH side of engine compartment	16-2	
S64	WASHER FLUID LEVEL SWITCH	Front RH side of engine compartment on washer fluid reservoir	16-3	
S68	LEFT REAR SEAT HEATER SWITCH	In rear console		
S69	RIGHT REAR SEAT HEATER SWITCH	In rear console		
S71	LEFT FRONT IMPACT SENSOR	Ahead of LH side shock tower	09-2	
S72	RIGHT FRONT IMPACT SENSOR	RH side of engine compartment ahead of RH side shock tower		
S75	BLOWER SWITCH	Center of dash middle of heater control panel		
S76	REAR WINDOW DEFOGGER SWITCH	Center of dash middle of heater control panel		
S77	DRIVER'S MAKEUP MIRROR SWITCH	Above LH sun visor		
S78	PASSENGER'S MAKEUP MIRROR SWITCH	Under roof center panel		
S85	LEFT REAR SEAT CONTACT	Below LH side of rear seat		
S86	RIGHT REAR SEAT CONTACT	Below RH side of rear seat		
S92	BACK UP LIGHT SWITCH (MANUAL TRANSMISSION)	Below center console		
S93	DRIVER'S THIGH SUPPORT SWITCH	LH front seat left		
S94	PASSENGER'S THIGH SUPPORT SWITCH	RH front seat		
S147	REAR WINDOW OPENING SWITCH	Rear of luggage compartment on lift gate behind trim panel		
S167	LIFT GATE LOCK SWITCH	Rear of luggage compartment on lift gate in upper LH A-pillar		
S170	REAR WINDOW LIMIT SWITCH	Rear of luggage compartment on lift gate behind trim panel		
S171	LIFT GATE LIMIT SWITCH	Rear of luggage compartment on lift gate behind trim panel		

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
S176	REAR WIPER/WASHER FLUID LEVEL SWITCH	RH side of luggage compartment		33-3
S198	JET HEATER THERMOSWITCH	Front LH side of engine compartment		
S21w	ENGINE HOOD SWITCH	Back of LH side shock tower		08-2
S119z	STEERING COLUMN POSITION SWITCH	Below LH side of dash		
S134w	IHKR/F3 CONTROL PANEL	RH side of LH footwell		
S135w	IHKR/F3 SWITCHING UNIT	RH side of LH footwell		
S8503	PROGRAM SWITCH	Below center console		
S8507	KICK-DOWN SWITCH	RH side of LH footwell		
S8514	TRANSMISSION CONTROL PROGRAM SELECTION SWITCH (EGS)	Below center console		
T6151	CYL. 1 IGNITION COIL	RH side of engine		13-2
T6152	CYL. 2 IGNITION COIL	RH side of engine		13-2
T6153	CYL. 3 IGNITION COIL	RH side of engine		13-2
T6154	CYL. 4 IGNITION COIL	LH side of engine		13-2
T6155	CYL. 5 IGNITION COIL	LH side of engine		13-2
T6156	CYL. 6 IGNITION COIL	LH side of engine		13-2
U4	TELEPHONE HANDSET	Below center console		
V6	UNCOUPLING DIODE	RH side of dash behind glove box		
V4y	DAYTIME RUNNING LIGHTS CODING DIODES CANADA	Behind LH side of dash center of windshield header		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X1	B+ JUNCTION POINT	Below LH side of dash		
X11	CONNECTOR (35-PINS, NATURAL)	Rear RH side of engine compartment in E-Box		00-3
X12	CONNECTOR (35-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		00-2
X13	CONNECTOR (21-PINS, WHITE)	Behind LH footwell trim	18-3	01-3
X14	CONNECTOR (30-PINS, YELLOW)	Behind LH footwell trim	18-3	00-4
X15	CONNECTOR (30-PINS, WHITE)	LH footwell	20-1	00-4
X16	CONNECTOR (26-PINS, NATURAL)	Rear of A2 instrument cluster	22-2	01-1
X17	CONNECTOR (6-PINS, BROWN)	Rear of A2 instrument cluster	22-2	01-4
X18	CONNECTOR (26-PINS, BLUE)	Rear LH side of engine compartment in Front Power Distribution Box		01-1
X19	CONNECTOR (26-PINS, GREEN)	Rear LH side of engine compartment in Front Power Distribution Box		01-1
X20	CONNECTOR (25-PINS, BLACK)	Rear LH side of engine compartment	08-3	03-4
X22	CONNECTOR (26-PINS, BLUE)	Rear RH side of engine compartment in E-Box		01-1
X31	CONNECTOR (12-PINS, BLACK)	LH side of engine compartment	10-3	
X32	CONNECTOR (12-PINS, WHITE)	LH footwell	20-1	07-3
X33	CONNECTOR (12-PINS, BLACK)	LH footwell	20-1	06-4
X34	CONNECTOR (12-PINS, WHITE)	LH footwell	19-3	06-4
X35	CONNECTOR (21-PINS, BLACK)	LH footwell	19-3	01-3
X51	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		15-2
X52	CONNECTOR (9-PINS, BLACK)	In LH auxiliary relay box, engine compartment		02-3
X54	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X55	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X56	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		15-2
X57	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X58	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X61	CONNECTOR (9-PINS, BLACK)	In LH auxiliary relay box, engine compartment	09-3	02-3
X63	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X64	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X65	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X67	CONNECTOR (12-PINS, BLACK)	Front LH side of engine compartment near front left turn signal assembly		01-2
X69	CONNECTOR (25-PINS, BLACK)	Rear LH side of engine compartment	08-3	03-4
X70	CONNECTOR (8-PINS, BLACK)	LH side of engine compartment ahead of LH side shock tower RH side of differential		01-5
X72	CONNECTOR (8-PINS, WHITE)	LH footwell	19-3	13-2
X73	CONNECTOR (8-PINS, BLACK)	LH footwell	21-1	03-1
X74	CONNECTOR (12-PINS, ORANGE)	LH footwell	19-2	08-2
X76	CONNECTOR (6-PINS, BLACK)	Rear RH side of engine compartment in E-Box		04-1
X79	CONNECTOR (3-PINS, BLACK)	Rear RH side of engine compartment in E-Box		04-4
X81	CONNECTOR (3-PINS, ORANGE)	Ahead of LH side shock tower	09-2	02-5
X82	CONNECTOR (3-PINS, BLACK)	Front of engine compartment behind front grille		04-5
X83	CONNECTOR (3-PINS, YELLOW)	Below LH side of dash	18-2	04-5

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X84	CONNECTOR (3-PINS, YELLOW)	Behind LH footwell trim	18-2	
X85	CONNECTOR (3-PINS, BLACK)	LH side of engine compartment		
X86	CONNECTOR (3-PINS, ORANGE)	RH side of engine compartment ahead of RH side shock tower		04-4
X87	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment near windshield washer reservoir RH top of radiator		02-5
X88	CONNECTOR (2-PINS, BLACK)	Below LH side of dash LH side of steering column		
X105	CONNECTOR (2-PINS, GRAY)	On underside of engine hood	17-3	
X106	CONNECTOR (2-PINS, GRAY)	On underside of engine hood	17-3	
X107	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir		
X109	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment on washer fluid reservoir		
X110	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir		
X111	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment	10-3	
X112	CONNECTOR (2-PINS, BLACK)	Top center of engine ahead of oil fill cap (with EML)		
X114	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment	10-3	
X116	CONNECTOR (4-PINS, BLACK)	LH side of dash on brake pedal support bracket		
X118	CONNECTOR (2-PINS, BLACK)	Behind LH front wheel	06-1	
X120	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment	10-3	
X121	CONNECTOR (2-PINS, WHITE)	LH side of dash on clutch pedal support bracket		
X122	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment	08-3	
X123	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment near windshield washer reservoir		

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COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X126	CONNECTOR (2-PINS, WHITE)	Front RH side of engine compartment ahead of wheel well	17-1	
X127	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment ahead of wheel well	17-1	
X128	CONNECTOR (2-PINS, BLACK)	LEFT FRONT TURN LIGHT, H7		
X129	CONNECTOR (2-PINS, GRAY)	LEFT PARK LIGHT, E15		
X130	CONNECTOR (2-PINS, YELLOW)	LEFT LOW BEAM LIGHT, E13		
X131	CONNECTOR (2-PINS, WHITE)	LEFT HIGH BEAM LIGHT, E11		
X132	CONNECTOR (2-PINS, BLACK)	LEFT HORN, H2		
X133	CONNECTOR (2-PINS, BLACK)	RIGHT HORN, H3		
X134	CONNECTOR (2-PINS, WHITE)	RIGHT HIGH BEAM LIGHT, E12		
X135	CONNECTOR (2-PINS, YELLOW)	RIGHT LOW BEAM LIGHT, E14		
X136	CONNECTOR (2-PINS, GRAY)	RIGHT PARK LIGHT, E19		
X137	CONNECTOR (2-PINS, BLACK)	RIGHT FRONT TURN LIGHT, H4		
X159	CONNECTOR (10-PINS, BLACK)	In lower LH front door	27-2	
X160	CONNECTOR (10-PINS, BLACK)	PASSENGER'S SIDE MEMORY MIRROR, Y10	27-3	
X163	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment on A/C compressor		02-5
X165	GROUND	LH side of dash		
X166	GROUND	Front RH side of engine compartment ahead of wheel well		
X167	GROUND	Front LH side of engine compartment		
X168	CONNECTOR (1-PINS, BLACK)	Underside of trunk lid		
X175	GROUND	Front LH side of engine compartment		

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X179	GROUND	Front RH side of engine compartment ahead of wheel well		
X251	CONNECTOR (30-PINS, BLACK)	LH footwell	20–1	14–4
X252	CONNECTOR (26-PINS, GREEN)	Below LH side of rear seat		01–1
X253	CONNECTOR (26-PINS, GREEN)	Below LH side of rear seat in Rear Power Distribution Box		01–1
X254	CONNECTOR (26-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		01–1
X255	CONNECTOR (26-PINS, YELLOW)	Below LH side of rear seat in Rear Power Distribution Box		01–1
X256	CONNECTOR (26-PINS, BLACK)	Ahead of RH front door	26–2	08–1
X257	CONNECTOR (26-PINS, BLACK)	In lower LH front door ahead of LH front door	26–2	08–1
X259	CONNECTOR (20-PINS, WHITE)	Below LH side of rear seat front of battery		08–4
X260	CONNECTOR (21-PINS, BLACK)	Below RH side of rear seat	29–2	
X261	CONNECTOR (1-PINS, (---))	RH side of luggage compartment		
X262	CONNECTOR (26-PINS, BLUE)	Below LH side of rear seat in Rear Power Distribution Box		01–1
X263	CONNECTOR (26-PINS, BLACK)	Below RH side of rear seat near battery		01–1
X269	CONNECTOR (6-PINS, BLACK)	Below LH side of rear seat		15–3
X271	CONNECTOR (12-PINS, GRAY)	Rear of A2 instrument cluster	22–2	08–2
X272	CONNECTOR (12-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		06–4
X273	CONNECTOR (12-PINS, BLACK)	Ahead of LH rear door in wire grommet	26–3	14–3
X274	CONNECTOR (12-PINS, BLACK)	Ahead of RH rear door in wire grommet	26–3	14–3
X275	CONNECTOR (12-PINS, WHITE)	Underside of LH front seat	26–1	07–2
X277	CONNECTOR (10-PINS, BLACK)	Ahead of LH rear door in wire grommet	26–3	09–1

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X278	CONNECTOR (10-PINS, BLACK)	Ahead of RH rear door in wire grommet	26-3	09-1
X279	CONNECTOR (12-PINS, WHITE)	Under RH front seat		07-2
X285	CONNECTOR (26-PINS, GRAY)	In LH auxiliary relay box, engine compartment		10-4
X286	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X288	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X289	CONNECTOR (9-PINS, BLACK)	In LH forward side of luggage compartment		02-3
X290	CONNECTOR (9-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X291	CONNECTOR (9-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X292	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X293	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X294	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X295	CONNECTOR (8-PINS, BLACK)	LH footwell	19-2	13-2
X296	CONNECTOR (9-PINS, BLACK)	In LH forward side of luggage compartment		02-3
X297	CONNECTOR (9-PINS, WHITE)	Below LH side of dash		02-3
X299	CONNECTOR (6-PINS, WHITE)	Below LH side of rear seat		
X311	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid	31-2	17-2
X312	CONNECTOR (6-PINS, BLACK)	In RH side of luggage compartment		17-2
X315	CONNECTOR (2-PINS, WHITE)	Underside of trunk lid	31-2	
X318	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment RIGHT REAR LIGHT ASSEMBLY, E17		06-3
X319	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment LEFT REAR LIGHT ASSEMBLY, E16		06-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X322	CONNECTOR (8-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		13-2
X323	CONNECTOR (6-PINS, BLACK)	Center of windshield header near rear view mirror		06-1
X328	CONNECTOR (4-PINS, BLACK)	Underside of trunk lid	31-2	06-3
X328	CONNECTOR (4-PINS, BLACK)	Underside of trunk lid	31-3	06-3
X329	CONNECTOR (4-PINS, BLACK)	Underside of trunk lid LEFT TRUNK LIGHT ASSEMBLY, E46		06-3
X331	CONNECTOR (5-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		02-4
X332	CONNECTOR (5-PINS, NATURAL)	Below LH side of rear seat in Rear Power Distribution Box		03-2
X333	CONNECTOR (4-PINS, BLACK)	Behind LH fresh air cowl	09-1	08-6
X334	CONNECTOR (4-PINS, WHITE)	Behind LH fresh air cowl		08-6
X335	CONNECTOR (4-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		02-6
X336	CONNECTOR (4-PINS, WHITE)	Near rear view mirror	23-3	06-5
X337	CONNECTOR (4-PINS, BLACK)	Below LH side of rear seat	28-3	06-3
X338	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment		06-3
X339	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment		06-3
X342	CONNECTOR (4-PINS, WHITE)	RH side of dash above RH kick panel		06-3
X351	CONNECTOR (2-PINS, BLACK)	Ahead of RH rear door		
X352	CONNECTOR (2-PINS, BLACK)	Ahead of LH rear door		
X353	CONNECTOR (2-PINS, BLACK)	Front LH door pillar		
X354	CONNECTOR (2-PINS, BLACK)	LH rear door jamb	30-2	
X355	CONNECTOR (3-PINS, WHITE)	In upper RH C-pillar	30-2	05-2

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COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X356	CONNECTOR (4-PINS, BLACK)	In lower RH C-pillar	30-3	13-6
X358	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid		03-3
X360	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid		09-5
X371	CONNECTOR (2-PINS, BLACK)	LH side of windshield header above LH visor		
X372	CONNECTOR (2-PINS, GRAY)	Rear RH side of engine compartment		
X374	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat in lower LH front door		
X375	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat	29-2	
X376	CONNECTOR (2-PINS, WHITE)	In Rear Power Distribution Box	29-1	
X376	CONNECTOR (2-PINS, WHITE)	Below LH side of rear seat		
X377	CONNECTOR (2-PINS, WHITE)	Below RH side of rear seat	29-2	
X379	CONNECTOR (1-PINS, BLACK)	In upper LH C-pillar		
X380	CONNECTOR (1-PINS, BLACK)	In upper RH C-pillar		
X381	CONNECTOR (2-PINS, BLACK)	DRIVER'S MAKEUP MIRROR LIGHT, E35		
X382	CONNECTOR (2-PINS, BLACK)	PASSENGER'S MAKEUP MIRROR LIGHT, E36		
X383	CONNECTOR (2-PINS, YELLOW)	Under rear of car near differential	07-2	
X386	CONNECTOR (1-PINS, (---))	REAR CIGAR LIGHTER LIGHT, E31		
X387	CONNECTOR (1-PINS, (---))	REAR CIGAR LIGHTER, E30		
X388	CONNECTOR (2-PINS, BLACK)	Below LH side of rear seat		
X389	CONNECTOR (2-PINS, BLACK)	LEFT FRONT AUXILIARY TURN LIGHT, H9		
X390	CONNECTOR (1-PINS, WHITE)	In upper RH C-pillar	30-2	

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X391	CONNECTOR (2-PINS, BLACK)	Below center of console		
X393	CONNECTOR (6-PINS, BLACK)	In LH rear side of luggage compartment		04-1
X400	CONNECTOR (8-PINS, BLACK)	In LH forward side of luggage compartment		13-2
X401	CONNECTOR (1-PINS, BLACK)	DRIVER'S MAKEUP MIRROR SWITCH, S77		
X402	CONNECTOR (1-PINS, BLACK)	PASSENGER'S MAKEUP MIRROR SWITCH, S78		
X405	CONNECTOR (2-PINS, (---))	LH side of engine compartment		
X406	CONNECTOR (2-PINS, (---))	RH side of engine compartment		
X407	CONNECTOR (2-PINS, (---))	Under LH rear of car		
X408	CONNECTOR (2-PINS, (---))	Under RH rear of car		
X409	CONNECTOR (2-PINS, (---))	Under center of car		
X413	CONNECTOR (2-PINS, BLACK)	At back of rear window shelf		
X416	CONNECTOR (1-PINS, BLACK)	Above LH sun visor		
X417	CONNECTOR (1-PINS, BLACK)	Under roof center panel		
X423	CONNECTOR (1-PINS, (---))	Below center of console		
X424	CONNECTOR (1-PINS, BROWN)	In upper LH C-pillar	30-3	
X490	GROUND	LH side of dash LH side of steering column inside box on interior side of LH door sill		
X491	GROUND	LH side of dash LH side of steering column		
X492	GROUND	LH side of LH footwell		
X493	GROUND	Below LH side of rear seat		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X495	GROUND	Underside of RH rear seat		
X496	GROUND	Underside of RH rear seat		
X501	CONNECTOR (26-PINS, GREEN)	Center of dash ON-BOARD COMPUTER, N4		01-1
X502	CONNECTOR (26-PINS, BLACK)	Rear of A2 instrument cluster INSTRUMENT CLUSTER, A2	22-2	01-1
X503	CONNECTOR (12-PINS, BLACK)	LH side of dash		05-6
X504	CONNECTOR (12-PINS, BLACK)	FOG LIGHT SWITCH, S10		05-6
X506	CONNECTOR (12-PINS, BLACK)	Front of gearshift selector	23-2	06-4
X507	CONNECTOR (14-PINS, BLACK)	LH side of dash behind steering wheel INSTRUMENT CLUSTER, A2		11-1
X509	CONNECTOR (9-PINS, WHITE)	Below LH side of dash near hood release lever		02-3
X510	CONNECTOR (9-PINS, WHITE)	Below LH side of dash near hood release lever		02-3
X511	CONNECTOR (8-PINS, BLACK)	Front of gearshift selector	23-2	03-1
X512	CONNECTOR (8-PINS, BLACK)	Behind center of dashboard near gearshift lever below RH side of dash		
X516	CONNECTOR (5-PINS, BLACK)	Center of console HAZARD SWITCH, S18		06-2
X517	CONNECTOR (4-PINS, BLACK)	DIMMER, N3		06-3
X518	CONNECTOR (4-PINS, BLACK)	LH footwell	20-2	06-3
X521	CONNECTOR (6-PINS, BLACK)	ASC SWITCH, S6		15-6
X522	CONNECTOR (3-PINS, WHITE)	LH footwell	20-2	05-2
X523	CONNECTOR (6-PINS, BLACK)	Behind LH side of dash center of windshield header		09-2
X526	CONNECTOR (8-PINS, BLACK)	LH footwell	20-1	13-2
X531	CONNECTOR (2-PINS, WHITE)	FRONT CIGAR LIGHTER, E28		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X532	CONNECTOR (2-PINS, NATURAL)	FRONT CIGAR LIGHTER LIGHT, E29		
X537	CONNECTOR (1-PINS, NATURAL)	In upper LH front door		
X538	CONNECTOR (1-PINS, NATURAL)	In upper RH front door		
X539	CONNECTOR (2-PINS, BLACK)	Center of dash		
X540	CONNECTOR (2-PINS, BLACK)	GLOVE BOX LIGHT SWITCH, S37		
X541	CONNECTOR (1-PINS, NATURAL)	RH side of dash		
X542	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X543	CONNECTOR (1-PINS, NATURAL)	LH side of dash		
X544	CONNECTOR (2-PINS, BLACK)	Behind dashboard		
X546	CONNECTOR (2-PINS, WHITE)	Below center of console LH side of gearshift selector		
X547	CONNECTOR (2-PINS, BLACK)	Behind center of dashboard RADIO, N9		
X550	CONNECTOR (12-PINS, WHITE)	Below LH side of dash		
X601	CONNECTOR (26-PINS, WHITE)	Underside of LH front seat	24-2	14-5
X602	CONNECTOR (26-PINS, YELLOW)	Underside of LH front seat	24-1	14-5
X603	CONNECTOR (12-PINS, BLACK)	DRIVER'S SEAT SEAT CONTROL SWITCH, S51		06-6
X604	CONNECTOR (12-PINS, BLACK)	PASSENGER'S SEAT, SEAT CONTROL SWITCH, S56		06-6
X605	CONNECTOR (12-PINS, BLACK)	In LH rear side of luggage compartment	32-1	02-1
X605	CONNECTOR (12-PINS, BLACK)	In LH rear side of luggage compartment	32-2	02-1
X606	CONNECTOR (12-PINS, WHITE)	In LH rear side of luggage compartment	32-1	02-1
X606	CONNECTOR (12-PINS, WHITE)	In LH rear side of luggage compartment	32-2	02-1

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X607	CONNECTOR (20-PINS, WHITE)	RH side of RH footwell behind RH footwell kickpanel		08-4
X608	CONNECTOR (12-PINS, BLACK)	Rear RH side of engine compartment		15-1
X609	CONNECTOR (15-PINS, BLACK)	In LH rear side of luggage compartment		12-3
X616	CONNECTOR (12-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box		08-5
X619	CONNECTOR (12-PINS, WHITE)	Below rear seat		07-2
X620	CONNECTOR (9-PINS, WHITE)	Below LH side of rear seat in Rear Power Distribution Box (M5)		16-1
X621	CONNECTOR (10-PINS, BLACK)	Ahead of RH front door	26-2	09-1
X622	CONNECTOR (10-PINS, BLACK)	Ahead of RH front door	26-2	09-1
X623	CONNECTOR (4-PINS, BLACK)	In lower LH front door	27-2	13-6
X624	CONNECTOR (4-PINS, BLACK)	PASSENGER'S SIDE MIRROR, Y6	27-3	13-6
X625	CONNECTOR (6-PINS, BLACK)	MEMORY MIRRORS CONTROL SWITCH, S12	27-2	18-2
X626	CONNECTOR (8-PINS, BLACK)	Underside of LH front seat	24-2	13-2
X627	CONNECTOR (8-PINS, BLACK)	Center of windshield header near rear view mirror	23-3	03-1
X628	CONNECTOR (5-PINS, BLACK)	In RH side of luggage compartment		
X629	CONNECTOR (8-PINS, NATURAL)	In RH side of luggage compartment		
X630	CONNECTOR (13-PINS, BLACK)	Under rear of car		
X632	CONNECTOR (9-PINS, BLACK)	Below LH side of rear seat in Rear Power Distribution Box		02-3
X638	CONNECTOR (6-PINS, BLACK)	In RH side of luggage compartment	32-3	09-4
X641	CONNECTOR (6-PINS, BLACK)	In upper RH front door	28-1	09-4
X642	CONNECTOR (8-PINS, BLACK)	Below RH side of rear seat		18-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X643 ..	CONNECTOR (6-PINS, BLUE)	SUNROOF SWITCH, S38		08-3
X644 ..	CONNECTOR (6-PINS, BLACK)	In RH side of luggage compartment		09-4
X645 ..	CONNECTOR (6-PINS, BLACK)	LEFT REAR WINDOW SWITCH, S41		17-2
X646 ..	CONNECTOR (6-PINS, BLACK)	In lower RH rear door		09-4
X647 ..	CONNECTOR (6-PINS, BLACK)	RIGHT REAR WINDOW SWITCH, S42		17-2
X648 ..	CONNECTOR (6-PINS, BLACK)	Underside of LH front seat	24-2	17-2
X649 ..	CONNECTOR (6-PINS, WHITE)	Underside of LH front seat	24-2	16-6
X650 ..	CONNECTOR (6-PINS, BLACK)	MEMORY SEAT MIRRORS SWITCH, S57		17-2
X651 ..	CONNECTOR (6-PINS, BLACK)	DRIVER'S SEAT, SEAT HEATER SWITCH, S53		17-2
X652 ..	CONNECTOR (6-PINS, BLUE)	DRIVER'S SEAT LUMBAR SWITCH, S52		08-3
X653 ..	CONNECTOR (6-PINS, BLACK)	Underside of LH front seat	24-1	17-2
X654 ..	CONNECTOR (6-PINS, WHITE)	Underside of LH front seat	24-1	16-6
X655 ..	CONNECTOR (6-PINS, BLUE)	Underside of LH front seat	24-1	08-3
X656 ..	CONNECTOR (6-PINS, GREEN)	Underside of LH front seat	24-1	16-5
X657 ..	CONNECTOR (6-PINS, BROWN)	Underside of LH front seat	24-3	17-1
X659 ..	CONNECTOR (6-PINS, BLACK)	Under RH front seat		17-2
X660 ..	CONNECTOR (6-PINS, BLACK)	In upper LH front door	27-1	09-4
X672 ..	CONNECTOR (4-PINS, BLACK)	In LH forward side of luggage compartment		10-2
X673 ..	CONNECTOR (2-PINS, BLACK)	Below LH side of rear seat		
X674 ..	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X675	CONNECTOR (4-PINS, WHITE)	In LH forward side of luggage compartment		16-2
X676	CONNECTOR (4-PINS, BLACK)	In LH forward side of luggage compartment		16-2
X680	CONNECTOR (3-PINS, BLACK)	Underside of LH front seat	24-3	05-2
X681	CONNECTOR (4-PINS, WHITE)	Below RH side of dash		06-3
X684	CONNECTOR (3-PINS, BLACK)	In upper RH front door near door handle		02-5
X685	CONNECTOR (3-PINS, BLACK)	In upper LH front door near door handle		02-5
X686	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X687	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X688	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X689	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X690	CONNECTOR (3-PINS, BLUE)	In lower LH front seatback		07-1
X692	CONNECTOR (3-PINS, BLACK)	Center of dash (radio removed)		
X692	CONNECTOR (3-PINS, BLACK)	Behind center of dashboard		03-3
X695	CONNECTOR (3-PINS, BLACK)	Lower LH side of engine		03-3
X696	CONNECTOR (3-PINS, BLACK)	Under RH rear of car RH side of differential		07-5
X700	CONNECTOR (1-PINS, (---))	Behind RH footwell speaker grille		
X701	CONNECTOR (1-PINS, (---))	Behind LH footwell speaker grille		
X705	CONNECTOR (2-PINS, BLACK)	Near RH rear wheel well	06-2	
X706	CONNECTOR (2-PINS, (---))	CASSETTE BOX LIGHT, E45y		
X709	CONNECTOR (2-PINS, BLACK)	LEFT LICENSE PLATE LIGHT, E43		

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COMPONENT			PAGE - FIGURE 7100.0 8500.0
X710	CONNECTOR (2-PINS, BLACK)	RIGHT LICENSE PLATE LIGHT, E44	
X711	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid left	
X712	CONNECTOR (1-PINS, NATURAL)	TRUNK LID LIGHT, E33	
X713	CONNECTOR (2-PINS, BLACK)	Behind RH rear wheel	
X714	CONNECTOR (2-PINS, GRAY)	In lower LH rear door	
X715	CONNECTOR (1-PINS, (---))	In upper LH rear door	
X720	CONNECTOR (2-PINS, GRAY)	In lower LH rear door	
X721	CONNECTOR (1-PINS, (---))	In upper RH rear door	
X726	CONNECTOR (2-PINS, BLACK)	Underside of LH front seat	26-1
X727	CONNECTOR (2-PINS, WHITE)	Underside of LH front seat	25-1
X728	CONNECTOR (2-PINS, WHITE)	Underside of LH front seat	26-1
X729	CONNECTOR (2-PINS, BLACK)	Underside of LH front seat	26-1
X730	CONNECTOR (2-PINS, (---))	In upper LH front seatback	
X731	CONNECTOR (2-PINS, WHITE)	In upper LH front seatback	
X732	CONNECTOR (2-PINS, WHITE)	In upper LH front seatback	
X733	CONNECTOR (2-PINS, BLACK)	In lower LH front seatback	
X734	CONNECTOR (2-PINS, BLACK)	Under RH front seat	
X735	CONNECTOR (2-PINS, WHITE)	Underside of LH front seat	25-1
X736	CONNECTOR (2-PINS, BLACK)	Under RH front seat	
X737	CONNECTOR (2-PINS, WHITE)	Under RH front seat	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X738	CONNECTOR (2-PINS, (---))	In upper RH front seatback		
X739	CONNECTOR (2-PINS, YELLOW)	Under RH front seat		
X740	CONNECTOR (2-PINS, WHITE)	Underside of LH front seat		25-3
X741	CONNECTOR (2-PINS, WHITE)	In upper RH front seatback		
X742	CONNECTOR (2-PINS, YELLOW)	In lower RH front door		27-3
X743	CONNECTOR (2-PINS, BLACK)	In upper RH front door		28-1
X744	CONNECTOR (2-PINS, GRAY)	In lower RH front door		27-3
X746	CONNECTOR (1-PINS, (---))	In upper RH front door		
X747	CONNECTOR (2-PINS, YELLOW)	In lower LH front door		27-1
X749	CONNECTOR (2-PINS, GRAY)	In lower LH front door		27-2
X750	CONNECTOR (1-PINS, (---))	In upper LH front door		27-2
X751	CONNECTOR (2-PINS, WHITE)	In lower LH front door		27-1
X752	CONNECTOR (2-PINS, GRAY)	In lower LH front door In upper LH front door left		27-1
X753	CONNECTOR (1-PINS, (---))	In upper LH front door		
X755	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment		
X756	CONNECTOR (2-PINS, BLACK)	Near RH rear wheel well behind RH rear wheel		
X757	CONNECTOR (2-PINS, BLACK)	Rear RH side of engine compartment		
X760	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X761	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X762	CONNECTOR (1-PINS, (---))	Under rear window shelf		

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X763	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X764	CONNECTOR (2-PINS, WHITE)	In RH side of luggage compartment		
X765	CONNECTOR (2-PINS, WHITE)	In RH side of luggage compartment		
X768	CONNECTOR (2-PINS, WHITE)	LEFT FOG LIGHT, E26		
X769	CONNECTOR (2-PINS, GRAY)	Below LH side of dash		
X770	CONNECTOR (2-PINS, WHITE)	Under LH front bumper	06-3	
X771	CONNECTOR (2-PINS, BLACK)	Below LH side of dash		
X772	CONNECTOR (2-PINS, WHITE)	RH side of LH footwell		
X773	CONNECTOR (2-PINS, WHITE)	RH side of dash		
X774	CONNECTOR (1-PINS, GRAY)	Near LH headlight assembly		
X778	CONNECTOR (2-PINS, BLACK)	Underside of LH front seat	25-1	
X779	CHARGING SOCKET	LH side of glove box	23-1	
X783	CONNECTOR (2-PINS, ORANGE)	Bottom of steering column	20-3	
X784	CONNECTOR (12-PINS, ORANGE)	LH footwell	19-3	06-4
X785	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment		
X790	CONNECTOR (2-PINS, WHITE)	LEFT REAR SEAT HEATER, E66		
X791	CONNECTOR (2-PINS, WHITE)	RIGHT REAR SEAT HEATER, E67		
X792	CONNECTOR (2-PINS, BLACK)	LEFT REAR SEATBACK HEATER, E65		
X793	CONNECTOR (2-PINS, BLACK)	RIGHT REAR SEATBACK HEATER, E68		

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X794	CONNECTOR (2-PINS, BLACK)	Below LH side of rear seat		
X796	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat		
X798	CONNECTOR (2-PINS, BLACK)	In upper LH front seatback		
X799	CONNECTOR (2-PINS, BLACK)	In upper RH front seatback		
X800	CONNECTOR (2-PINS, WHITE)	Behind LH footwell trim	18-2	
X811	CONNECTOR (1-PINS, BLACK)	Below RH side of rear seat near battery		
X817	CONNECTOR (1-PINS, BLACK)	Between front footwells		
X818	GROUND	LH side of dash LH side of steering column		
X880	CONNECTOR (6-PINS, WHITE)	DRIVER'S THIGH SUPPORT SWITCH, S93		16-6
X881	CONNECTOR (6-PINS, WHITE)	PASSENGER'S THIGH SUPPORT SWITCH, S94		16-6
X882	CONNECTOR (2-PINS, BLACK)	Underside of LH front seat	26-1	
X883	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X884	CONNECTOR (3-PINS, BLUE)	In upper RH front seatback		07-1
X887	CONNECTOR (6-PINS, WHITE)	DRIVER'S THIGH SUPPORT SWITCH, S93		16-6
X890	CONNECTOR (2-PINS, BLACK)	Behind LH front fog light		
X898	CONNECTOR (8-PINS, BLACK)	Center of dash LH side of heater control panel		03-1
X899	CONNECTOR (18-PINS, BLACK)	Center of dash RH side of heater control panel		13-3
X900	CONNECTOR (2-PINS, WHITE)	Above LH footwell dash panel		
X901	CONNECTOR (2-PINS, WHITE)	Above RH footwell dash panel		
X904	CONNECTOR (4-PINS, BLACK)	LH side of RH footwell		06-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X905	CONNECTOR (5-PINS, BLACK)	Center of dash middle of heater control panel		09-3
X945	CONNECTOR (10-PINS, BLACK)	In RH side of luggage compartment		17-5
X946	CONNECTOR (4-PINS, BLACK)	Under rear window shelf		06-3
X948	CONNECTOR (2-PINS, BLACK)	At back of rear window shelf		
X949	CONNECTOR (5-PINS, BLACK)	Under rear window shelf		02-4
X960	BATTERY B+ START POINT	LH side of dash		
X963	CONNECTOR (1-PINS, (---))	Below RH side of rear seat		
X997	CONNECTOR (2-PINS, WHITE)	Under rear of car behind RH rear wheel		
X998	CONNECTOR (4-PINS, BLACK)	Below LH side of dash		06-5
X999	CONNECTOR (4-PINS, BLACK)	Below LH side of dash		06-3
X1021	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X1024	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		02-3
X1034	CONNECTOR (3-PINS, BLACK)	Below LH side of dash		07-5
X1035	CONNECTOR (3-PINS, BLACK)	Near RH headlight assembly		07-5
X1048	CONNECTOR (1-PINS, (---))	RH side of engine compartment		
X1049	CONNECTOR (1-PINS, (---))	RH side of engine compartment		
X1056	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		02-3
X1086	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		02-3
X1098	CONNECTOR (12-PINS, BLACK)	Front of engine compartment		05-6

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X1099	CONNECTOR (12-PINS, BLACK)	Front of engine compartment		05-6
X1160	GROUND	LH side of dash LH side of steering column		
X1171	CONNECTOR (55-PINS, NATURAL)	Rear RH side of engine compartment in E-Box SLIP CONTROL MODULE (ABS/ ASC), A70		00-1
X1191	CONNECTOR (4-PINS, BLACK)	Rear of luggage compartment below brake fluid reservoir behind trim panel		06-3
X1195	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X1197	CONNECTOR (8-PINS, WHITE)	In E-Box	15-2	03-1
X1221	CONNECTOR (26-PINS, GREEN)	Below LH side of rear seat in Rear Power Distribution Box		10-4
X1222	CONNECTOR (6-PINS, WHITE)	In LH forward side of luggage compartment		04-1
X1250	CONNECTOR (10-PINS, BLACK)	RH side of luggage compartment behind side panel		
X1250	CONNECTOR (10-PINS, BLACK)	RH side of luggage compartment behind side panel		15-2
X1251	CONNECTOR (2-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel	31-3	
X1252	CONNECTOR (2-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel	31-3	
X1253	CONNECTOR (2-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel		
X1254	CONNECTOR (2-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel		
X1374	CONNECTOR (1-PINS, NATURAL)	GLOVE BOX LIGHT, E42		
X1386	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment in E-Box		18-4
X1388	CONNECTOR (2-PINS, BLACK)	Rear RH side of engine compartment		
X1389	CONNECTOR (12-PINS, BLACK)	RH side of engine compartment		02-1
X1405	CONNECTOR (1-PINS, NATURAL)	RH side of dash		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X1406	CONNECTOR (1-PINS, NATURAL)	RH side of dash		
X1427	CONNECTOR (1-PINS, NATURAL)	DASH LIGHT, E41		
X1439	CONNECTOR (2-PINS, BLACK)	TRANSMISSION RANGE SELECTOR LIGHT, E9500		
X1440	CONNECTOR (1-PINS, BROWN)	Below LH side of dash		
X1851	CONNECTOR (1-PINS, BLACK)	At back of rear window shelf		
X1852	CONNECTOR (1-PINS, WHITE)	At back of rear window shelf		
X3210	CONNECTOR (26-PINS, BLUE)	LH side of dash LH side of steering column		01-1
X3211	CONNECTOR (4-PINS, BLACK)	Center of dash		05-1
X3212	CONNECTOR (4-PINS, BLACK)	LH footwell	20-1	03-3
X5000	CONNECTOR (4-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-6
X6000	CONNECTOR (55-PINS, BLACK)	Rear RH side of engine compartment in E-Box ENGINE CONTROL MODULE (DME), A6000		00-1
X6002	CONNECTOR (20-PINS, BLACK)	Rear LH side of engine compartment right of LH side shock tower		04-6
X6003	CONNECTOR (8-PINS, BLACK)	In E-Box	15-1	
X6003	CONNECTOR (8-PINS, BLACK)	In E-Box	15-2	03-1
X6004	CONNECTOR (35-PINS, BLACK)	Rear RH side of engine compartment in E-Box		00-3
X6006	CONNECTOR (5-PINS, GREEN)	Rear RH side of engine compartment in E-Box		02-4
X6007	CONNECTOR (35-PINS, NATURAL)	Above RH kick panel		00-3
X6030	CONNECTOR (18-PINS, BLACK)	In E-Box		19-1
X6053	CONNECTOR (12-PINS, BLACK)	RH side of dash behind glove box		02-1

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6101	CONNECTOR (2-PINS, BLACK)	On engine bulkhead		
X6102	CONNECTOR (2-PINS, BLACK)	On engine bulkhead		
X6103	CONNECTOR (2-PINS, BLACK)	On engine bulkhead		
X6104	CONNECTOR (2-PINS, BLACK)	On engine bulkhead		
X6105	CONNECTOR (2-PINS, BLACK)	On engine bulkhead		
X6106	CONNECTOR (2-PINS, BLACK)	On engine bulkhead		
X6120	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6130	CONNECTOR (3-PINS, BLACK)	Top front of engine		
X6132	CONNECTOR (2-PINS, BLACK)	Front of engine LH side of engine (M5)		
X6133	CONNECTOR (2-PINS, BLACK)	Top front of engine	11-3	
X6151	CONNECTOR (3-PINS, GRAY)	RH side of engine		15-4
X6152	CONNECTOR (3-PINS, GRAY)	RH side of engine		15-4
X6154	CONNECTOR (3-PINS, GRAY)	LH side of engine		15-4
X6155	CONNECTOR (3-PINS, GRAY)	LH side of engine		15-4
X6156	CONNECTOR (3-PINS, GRAY)	LH side of engine		15-4
X6200	CONNECTOR (4-PINS, BLACK)	LH side of engine	10-1	13-5
X6201	CONNECTOR (3-PINS, BLACK)	Top front of engine	11-3	03-5
X6201	CONNECTOR (3-PINS, BLACK)	Below intake manifold		03-5
X6202	CONNECTOR (3-PINS, BLACK)	Top front of engine	11-3	03-5
X6202	CONNECTOR (3-PINS, BLACK)	Below intake manifold		03-5

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6205	CONNECTOR (2-PINS, BLACK)	Front of engine on coolant inlet		
X6206	CONNECTOR (7-PINS, BLACK)	Front LH side of engine compartment ahead of LH side shock tower		13-4
X6217	CONNECTOR (4-PINS, GRAY)	Top front of engine		09-6
X6230	CONNECTOR (3-PINS, BLACK)	LH side of engine	10-2	03-5
X6231	CONNECTOR (2-PINS, BLACK)	Front of engine compartment below intake manifold		
X6232	CONNECTOR (2-PINS, BLACK)	Front of engine on coolant inlet		
X6233	CONNECTOR (5-PINS, BLACK)	Top center of engine ahead of oil fill cap		12-2
X6234	CONNECTOR (2-PINS, WHITE)	Front of engine LH side of engine		
X6235	CONNECTOR (2-PINS, BLACK)	Rear RH side of engine compartment in E-Box		
X6236	CONNECTOR (2-PINS, BLACK)	Top rear of engine on coolant inlet		
X6238	CONNECTOR (2-PINS, BLACK)	Front of engine LH side of engine		
X6250	CONNECTOR (3-PINS, BLACK)	LH side of engine compartment		03-5
X6251	CONNECTOR (6-PINS, BLACK)	Top front of engine on throttle body		02-2
X6300	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-3
X6301	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-3
X6302	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-3
X6304	CONNECTOR (9-PINS, BLACK)	Rear RH side of engine compartment in E-Box		02-3
X6350	CONNECTOR (8-PINS, BLACK)	Top front of engine near distributor		03-6
X6400	B+ JUNCTION POINT	In E-Box		
X6450	GROUND	Rear RH side of engine compartment		

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COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X6451	GROUND	RH side of engine compartment near battery		
X6452	GROUND	Near E-Box left		
X6453	GROUND	Near E-Box left		
X6454	GROUND	Near battery		
X6506	CONNECTOR (4-PINS, BLACK)	In E-Box	15-2	06-3
X6508	CONNECTOR (3-PINS, BLACK)	LH side of engine	10-1	03-5
X6510	CABLE SOCKET STARTER TERMINAL 50	LH side of engine compartment below intake manifold		
X6511	CABLE SOCKET ALTERNATOR TERMINAL 30h	Below intake manifold		
X6512	CABLE SOCKET STARTER TERMINAL 30h	LH side of engine		
X8500	CONNECTOR (55-PINS, BLACK)	Behind RH footwell kickpanel		00-1
X8500	CONNECTOR (35-PINS, BLACK)	Behind RH footwell kickpanel		00-3
X8503	CONNECTOR (6-PINS, BLUE)	Below center console		08-3
X8505	CONNECTOR (8-PINS, BLACK)	On LH side of transmission		11-2
X8505	CONNECTOR (16-PINS, BLACK)	On LH side of transmission		19-2
X8507	CONNECTOR (1-PINS, BLACK)	Rear RH side of engine compartment		
X8508	GROUND	Underside of RH rear seat		
X8513	CONNECTOR (2-PINS, WHITE)	Front of gearshift selector	23-2	
X8514	CONNECTOR (6-PINS, BLUE)	Below center console front of gearshift selector		08-3
X8516	CONNECTOR (2-PINS, BLACK)	Under center of car		
X8550	CONNECTOR (48-PINS, BLUE)	Behind RH footwell kickpanel		16-4

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X8551	CONNECTOR (10-PINS, BLACK)	On LH side of transmission		09-1
X8575	CONNECTOR (1-PINS, WHITE)	LH side of dash		
X10051	CONNECTOR (4-PINS, WHITE)	Behind LH side of dash		06-3
X10063	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		02-3
X10082	CONNECTOR (5-PINS, GREEN)	Behind LH footwell trim	18-1	02-4
X10083	CONNECTOR (4-PINS, BLACK)	Behind LH footwell trim	18-1	02-6
X10084	CONNECTOR (9-PINS, BLACK)	Below RH side of dash		02-3
X10104	CONNECTOR (18-PINS, WHITE)	In E-Box		19-1
X10105	CONNECTOR (8-PINS, WHITE)	In E-Box		03-1
X10194	CONNECTOR (16-PINS, BLACK)	Rear LH side of engine compartment		19-2
X13018	CONNECTOR (1-PINS, BLACK)	In rear window		
X13023	CONNECTOR (2-PINS, WHITE)	Center console		
X13024	CONNECTOR (2-PINS, BLACK)	Center console		
X13025	CONNECTOR (12-PINS, BLACK)	Below RH side of rear seat	29-2	
X13056	CONNECTOR (9-PINS, BLACK)	RH side of luggage compartment behind side panel		02-3
X13057	CONNECTOR (3-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel		05-2
X13058	CONNECTOR (2-PINS, GREEN)	RH side of luggage compartment behind side panel		
X13059	CONNECTOR (3-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel		05-2
X13085	CONNECTOR (10-PINS, BLACK)	In roof panel	31-1	09-1
X13086	CONNECTOR (15-PINS, BLACK)	In roof panel	31-1	13-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X13105	CONNECTOR (3-PINS, BLACK)	Below LH side of dash		03-3
X13106	CONNECTOR (6-PINS, BLACK)	RH side of luggage compartment behind side panel		15-5
X13107	CONNECTOR (4-PINS, WHITE)		31-3	
X13119	CONNECTOR (12-PINS, WHITE)	Below LH side of dash		06-4
X13123	CONNECTOR (9-PINS, BLACK)	RH side of luggage compartment		02-3
X13124	CONNECTOR (9-PINS, BLACK)	RH side of luggage compartment		02-3
X13139	CONNECTOR (10-PINS, BLACK)	Center of windshield header		09-1
X18025	CONNECTOR (4-PINS, BLACK)	LH side of engine compartment		05-1
X18029	CONNECTOR (4-PINS, BLACK)	Below LH side of dash		06-5
X18049	CONNECTOR (2-PINS, YELLOW)	In lower LH rear door		
X18050	CONNECTOR (2-PINS, BLACK)	RH front door		
X18051	CONNECTOR (2-PINS, WHITE)	In lower RH rear door		
X18052	CONNECTOR (2-PINS, YELLOW)	In lower RH rear door		
X18067	CONNECTOR (1-PINS, (---))	Below RH side of rear seat near battery		
X18068	CONNECTOR (1-PINS, (---))	Below RH side of rear seat near battery		
X18080	CONNECTOR (1-PINS, NATURAL)	TRUNK LID LIGHT, E33		
X18084	CONNECTOR (2-PINS, WHITE)	LH front door	27-1	
X18093	CONNECTOR (3-PINS, WHITE)	STEERING COLUMN POSITION SWITCH, S119z		03-3
X18097	CONNECTOR (2-PINS, BLACK)	Bottom of steering column	20-3	
X18126	CONNECTOR (17-PINS, BLACK)	Behind radio	22-3	04-2

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X18151	CONNECTOR (10-PINS, BLACK)	IHKR/F3 SWITCHING UNIT, S135w		09-1
X18153	CONNECTOR (3-PINS, BLACK)	Behind center of dashboard near gearshift lever		05-2
X18154	CONNECTOR (18-PINS, BLACK)	IHKR/F3 CONTROL PANEL, S134w		13-3
X18155	CONNECTOR (26-PINS, WHITE)	LH side of RH footwell	21-3	10-4
X18156	CONNECTOR (26-PINS, BLUE)	LH side of RH footwell	21-3	10-4
X18157	CONNECTOR (26-PINS, BLUE)	LH side of RH footwell	21-3	10-4
X18181	CONNECTOR (6-PINS, BLACK)	Underside of LH front seat		17-2
X18184	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X18185	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X18186	CONNECTOR (1-PINS, NATURAL)	In upper LH front door		
X18187	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X18189	CONNECTOR (1-PINS, (---))	Under rear window shelf		
X18190	CONNECTOR (1-PINS, NATURAL)	In upper LH front door		
X18191	CONNECTOR (1-PINS, (---))	Behind RH footwell speaker grille		
X18192	CONNECTOR (1-PINS, WHITE)	In upper RH front door		
X18193	CONNECTOR (1-PINS, (---))	In upper RH front door		
X18203	CONNECTOR (4-PINS, (---))	Below RH side of rear seat		06-5
X18205	CONNECTOR (2-PINS, WHITE)	Front of gearshift selector	23-2	
X18208	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard near gearshift lever		06-3
X18209	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard near gearshift lever		06-5

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X18244	CONNECTOR (8-PINS, BLACK)	Center of dash		03-1
X18245	CONNECTOR (8-PINS, BLACK)	In roof panel	31-1	03-1
X18259	CONNECTOR (10-PINS, BLACK)	Below LH side of dash		15-2
X18263	CONNECTOR (2-PINS, WHITE)	Middle of heater control panel		
X18500	CONNECTOR (25-PINS, BLACK)	TELEPHONE TRANSCEIVER, H38		19-4
X18501	CONNECTOR (3-PINS, YELLOW)	TELEPHONE INTERFACE US, A192		
X18507	CONNECTOR (4-PINS, BLACK)			
X18508	CONNECTOR (4-PINS, BLACK)			
X18509	CONNECTOR (4-PINS, BLACK)			
X18520	CONNECTOR (10-PINS, BLACK)	Behind radio	22-3	
X18521	CONNECTOR (10-PINS, BLACK)	In LH rear side of luggage compartment	32-2	19-3
X18715	CONNECTOR (1-PINS, BLACK)	Behind center of dashboard behind radio		
X18729	CONNECTOR (3-PINS, WHITE)	In LH forward side of luggage compartment	32-1	05-2
X18729	CONNECTOR (3-PINS, WHITE)	In LH forward side of luggage compartment	32-2	05-2
X18736	CONNECTOR (1-PINS, BLUE)	Inside box on interior side of LH door sill		
X18741	CONNECTOR (4-PINS, BLACK)			
Y1	ABS HYDRAULIC UNIT	LH side of engine compartment	10-3	
Y4	WATER VALVE ASSEMBLY	Rear LH side of engine compartment	08-3	
Y5	DRIVER'S SIDE MIRROR	In upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	In upper RH front door		

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COMPONENT LOCATION CHART

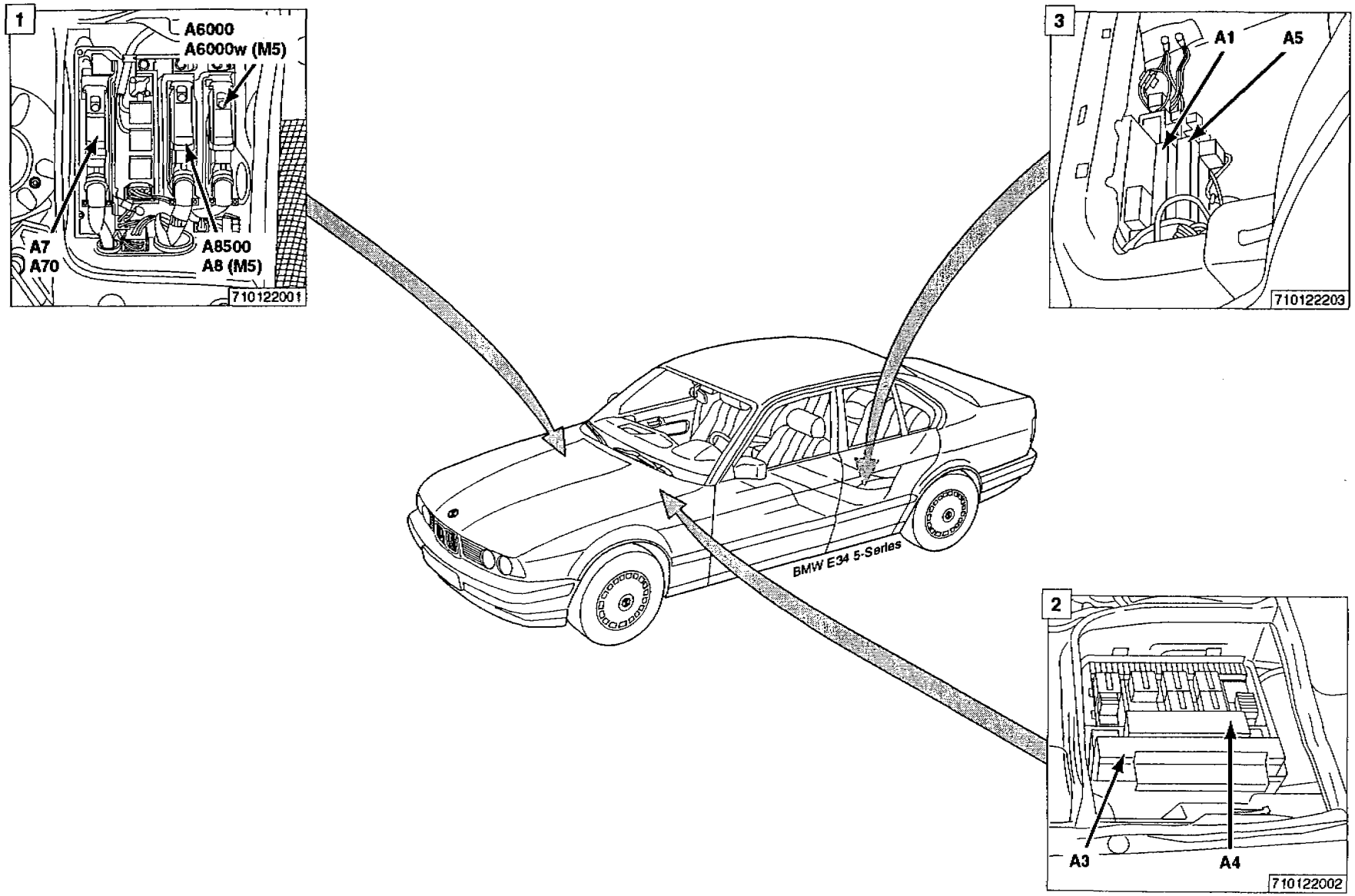
COMPONENT			PAGE – FIGURE 7100.0	8500.0
Y9	DRIVER'S SIDE MEMORY MIRROR	In upper LH front door		
Y10	PASSENGER'S SIDE MEMORY MIRROR	In upper RH front door		
Y6101	CYL. 1 FUEL INJECTION VALVE	On engine bulkhead		13-3
Y6102	CYL. 2 FUEL INJECTION VALVE	On engine bulkhead		13-3
Y6103	CYL. 3 FUEL INJECTION VALVE	On engine bulkhead		13-3
Y6104	CYL. 4 FUEL INJECTION VALVE	On engine bulkhead		13-3
Y6105	CYL. 5 FUEL INJECTION VALVE	On engine bulkhead		13-3
Y6106	CYL. 6 FUEL INJECTION VALVE	On engine bulkhead		13-3
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment LH side of engine		09-2
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine (near oil level stick) (M5)		
Y6130	IDLE SPEED CONTROL VALVE	Front of engine		12-1
Y6130	IDLE SPEED CONTROL VALVE	Top front of engine on throttle body (M5)		
Y6131	INTAKE AIR RESONANCE CHANGEOVER VALVE	LH side of engine (near oil level stick) (M5)		
Y8514	PROGRAM SWITCH	Below center of console front of gearshift selector		
Y8516	ELECTRONIC TRANSMISSION ENGINE SPEED SENSOR (EGS)	Under center of car		
Y8505y	TRANSMISSION VALVE UNIT	In transmission		

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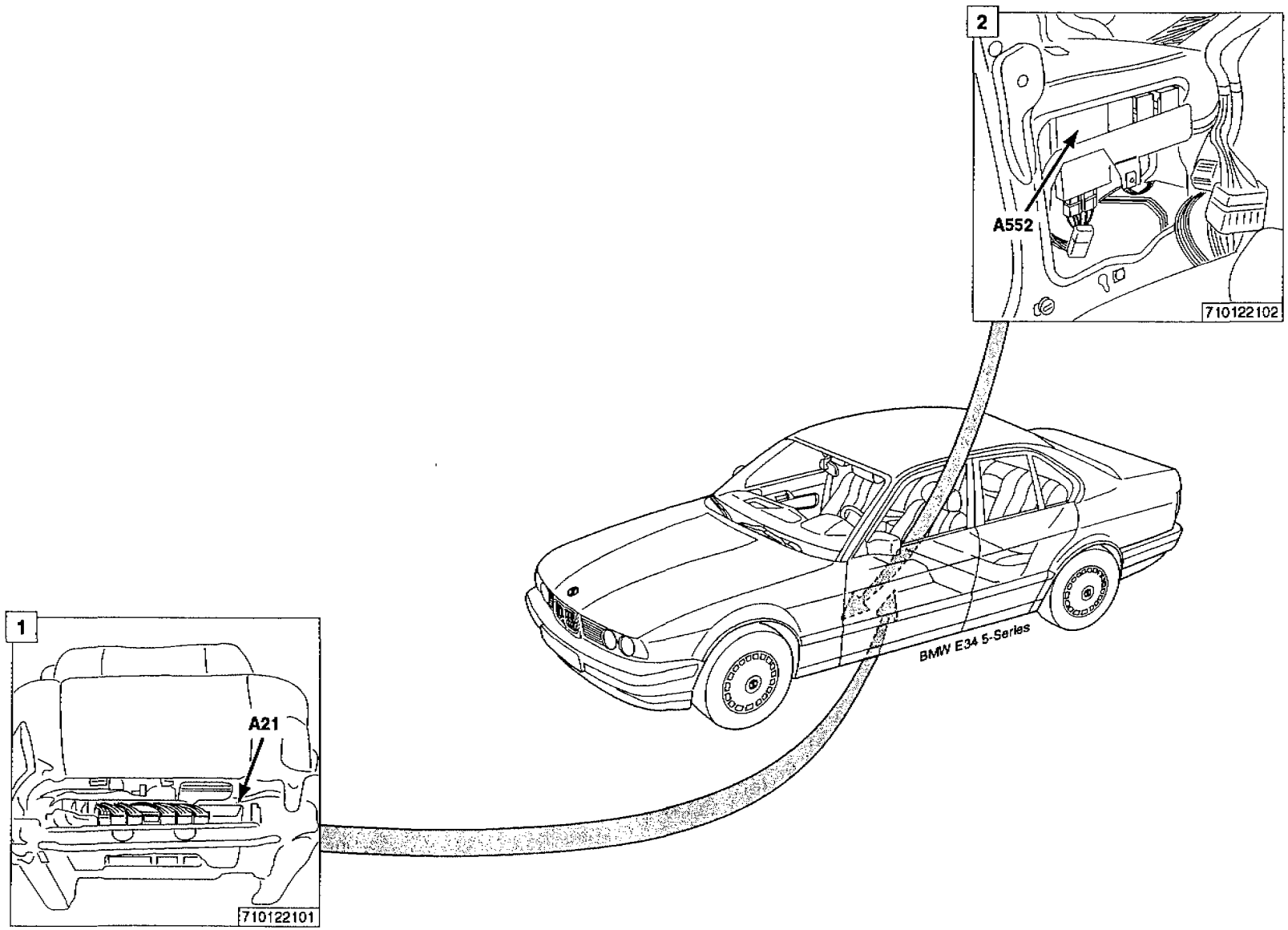
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COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

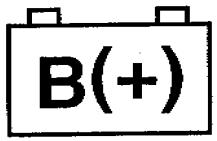


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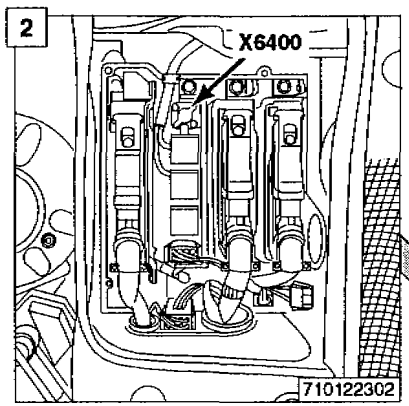


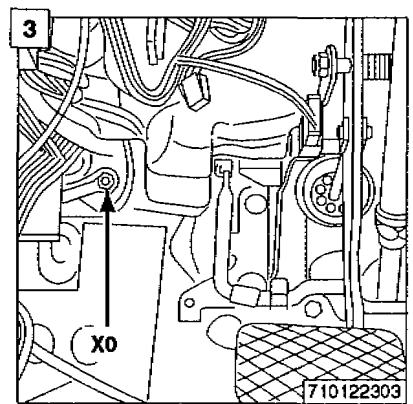
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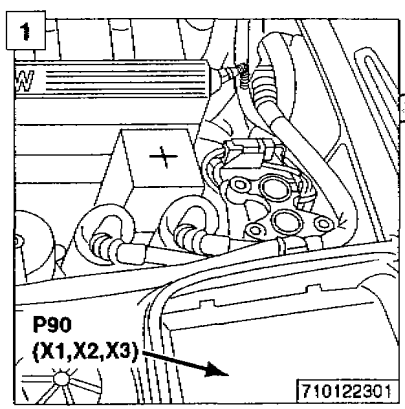
COMPONENT LOCATION VIEWS

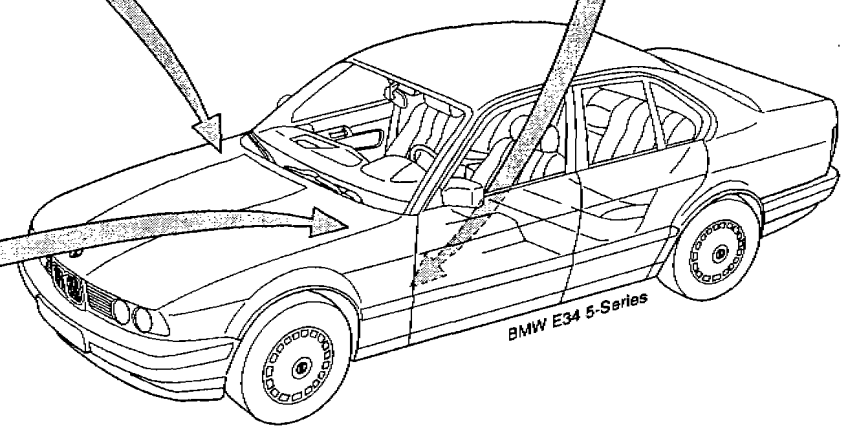


P90
X0
X1
X2
X3
X6400







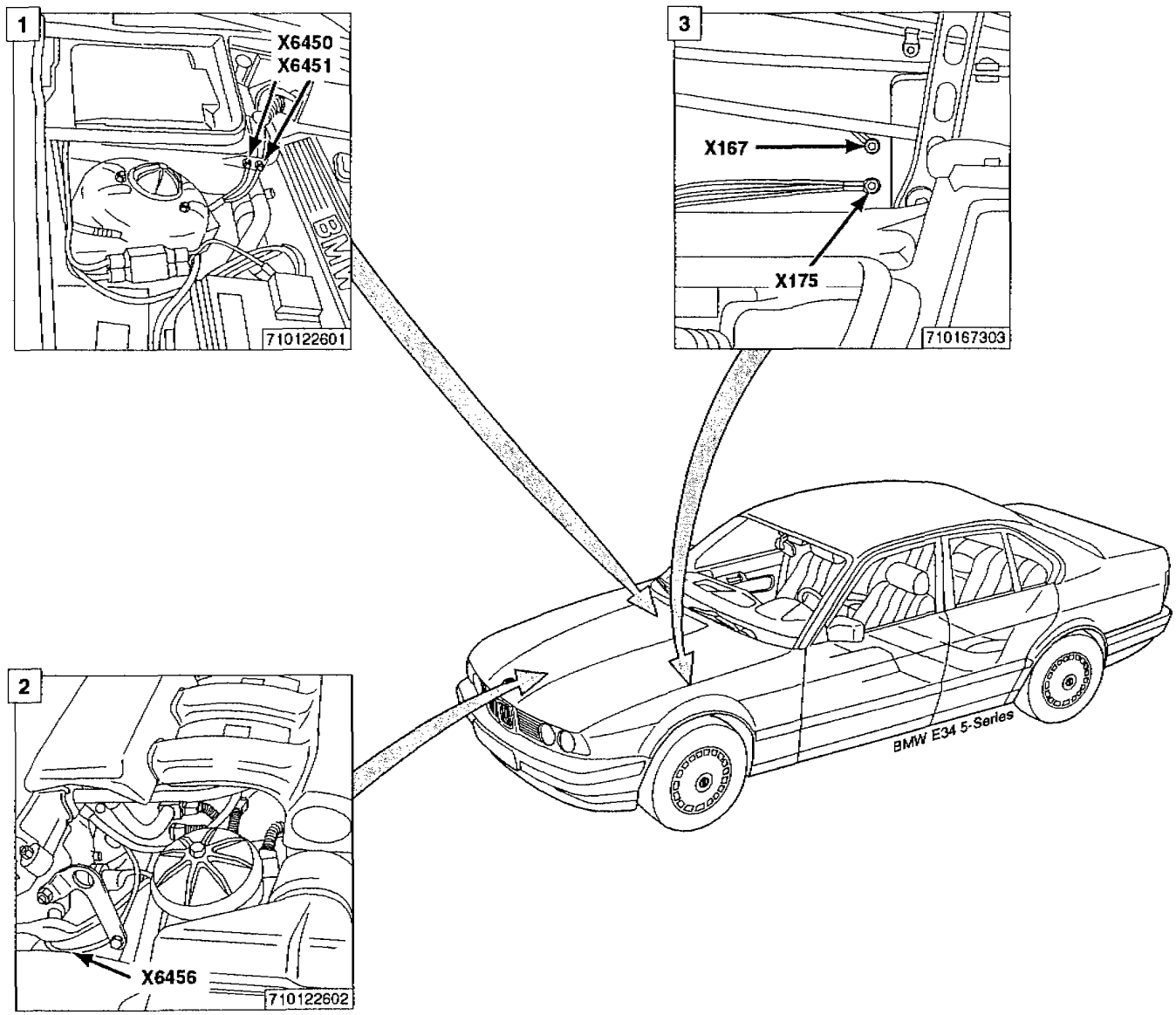


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COMPONENT LOCATION VIEWS

B(-)

X167
X175
X6450
X6451
X6456

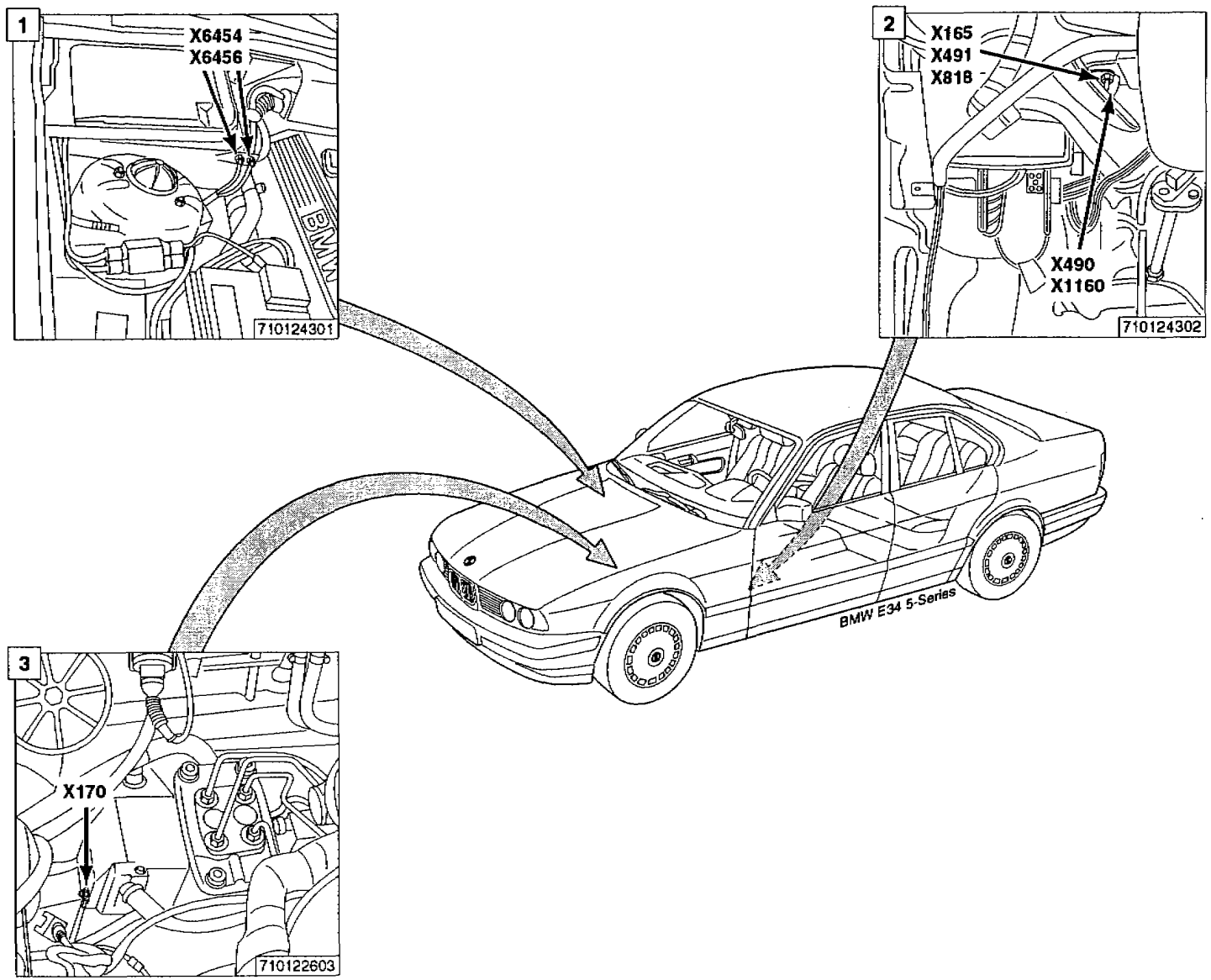


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COMPONENT LOCATION VIEWS

B(-)

X165
X170
X490
X491
X818
X1160
X6454
X6456



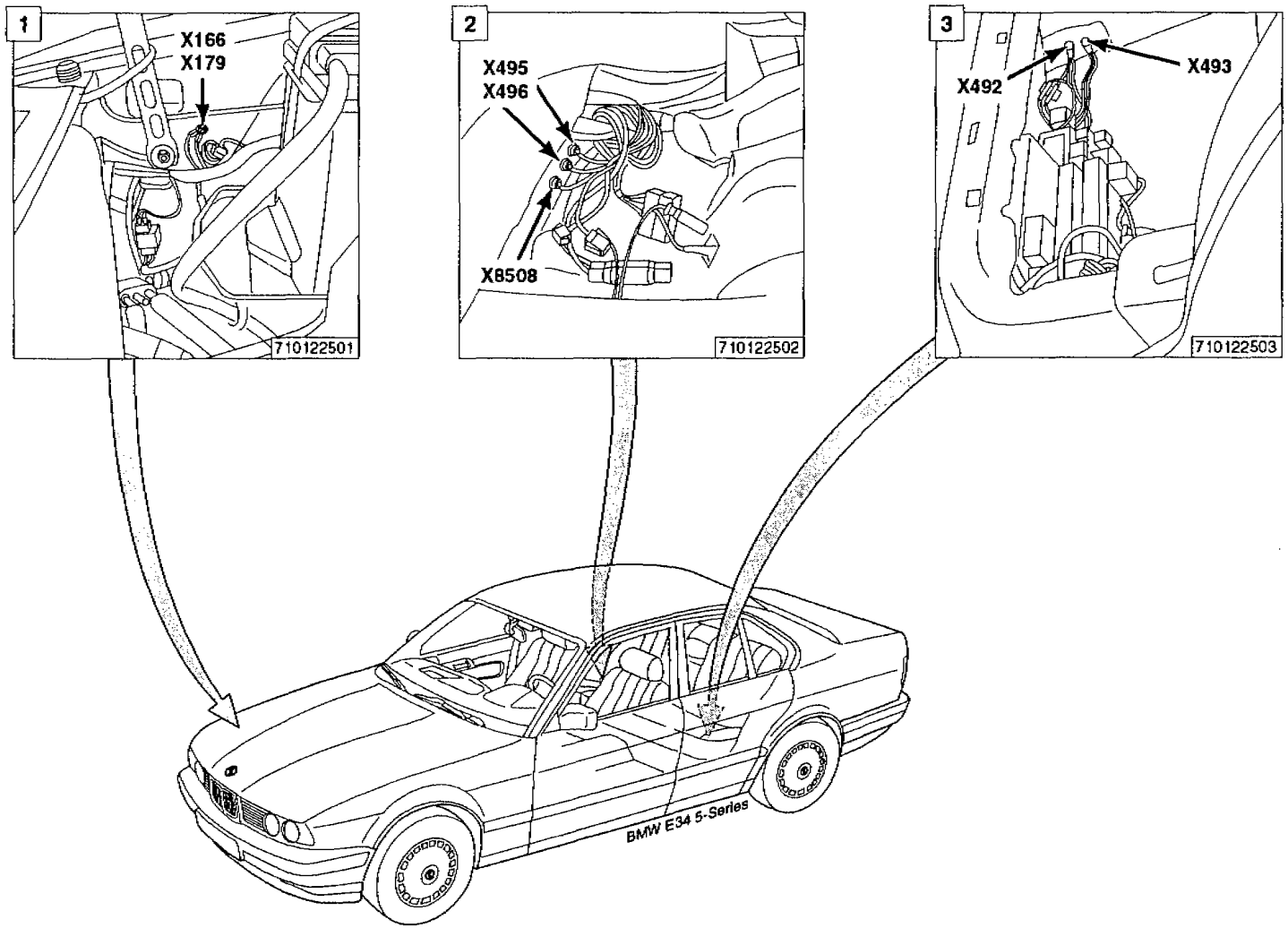
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COMPONENT LOCATION VIEWS

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B(-)

X166
X179
X492
X493
X495
X496
X8508



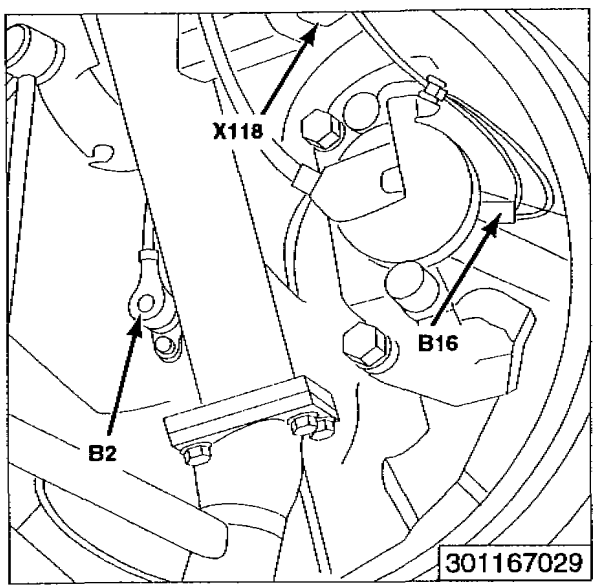


FIG. 1 - Behind LH front wheel

- B2 LEFT FRONT SPEED SENSOR – ABS
- B16 LEFT FRONT BRAKE PAD SENSOR
- X118 CONNECTOR (2-PINS, BLACK)

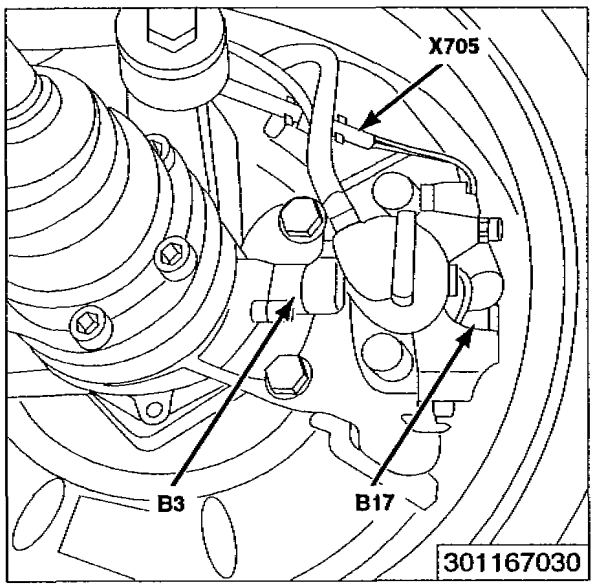


FIG. 2 - Behind RH rear wheel

- B3 RIGHT REAR SPEED SENSOR – ABS
- B17 RIGHT REAR BRAKE PAD SENSOR
- X705 CONNECTOR (2-PINS, BLACK)

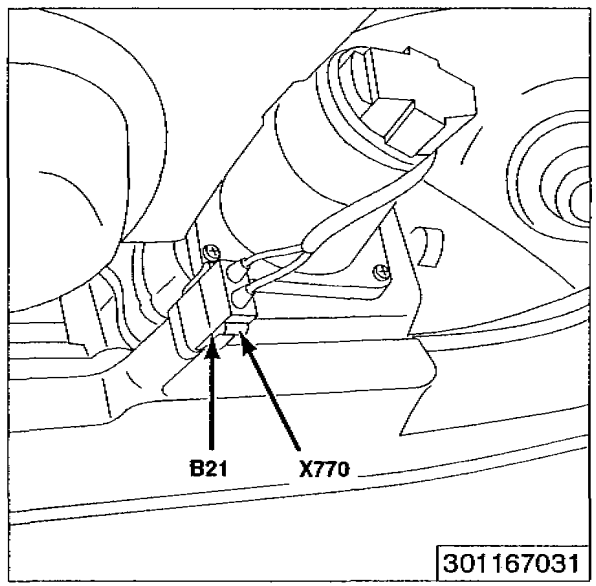


FIG. 3 - Under LH front bumper

- B21 ON-BOARD COMPUTER TEMPERATURE SENSOR
- X770 CONNECTOR (2-PINS, WHITE)

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COMPONENT LOCATION VIEWS

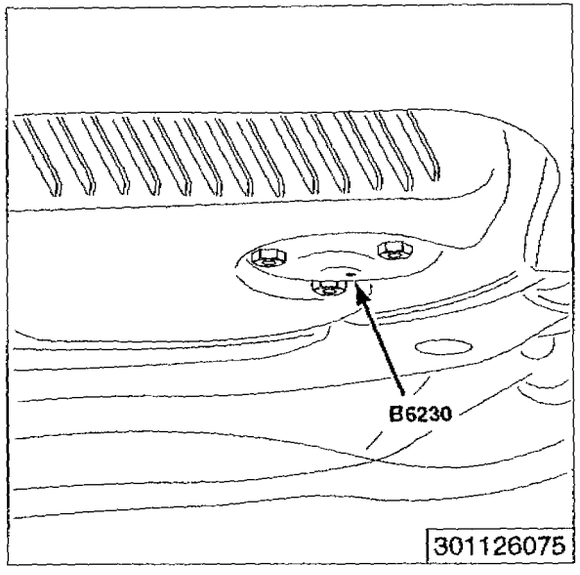


FIG 1 - Underside of oil pan

B6230 OIL LEVEL SENSOR

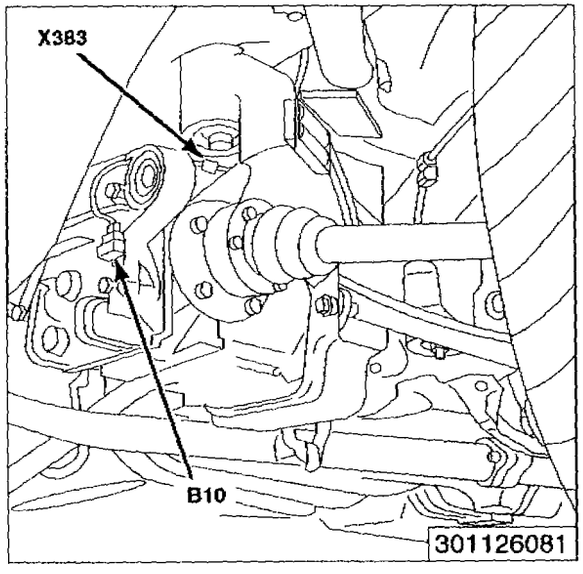


FIG 2 - Under rear of car

B10 VEHICLE SPEED SENSOR
X383 CONNECTOR (2-PINS, YELLOW)

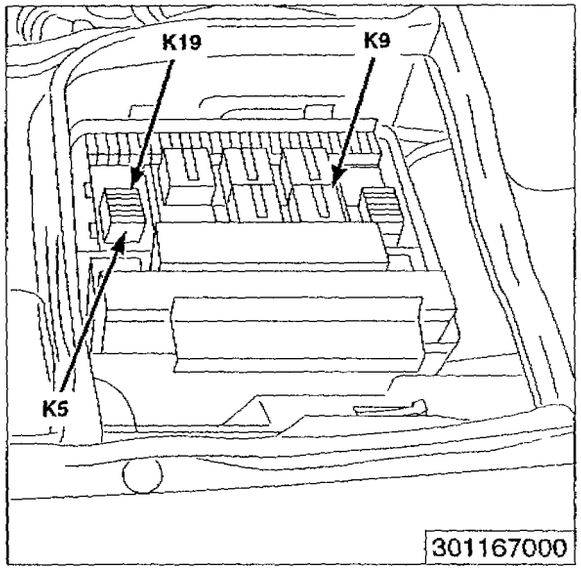


FIG 3 - In Front Power Distribution Box

K5 WASHER PUMP RELAY
K9 UNLOADER RELAY, TERMINAL 15
K19 COMPRESSOR CONTROL RELAY

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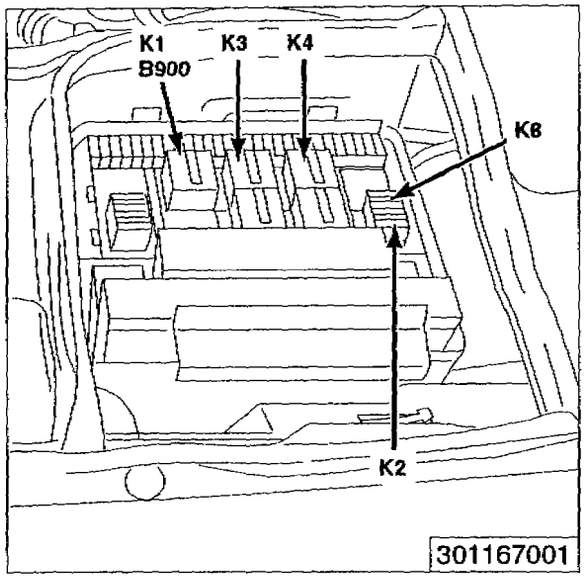


FIG 1 - In Front Power Distribution Box

- B900 JUMPER PLUG
- K1 STARTER RELAY
- K2 HORN RELAY
- K3 UNLOADER RELAY, TERMINAL R
- K4 BLOWER RELAY
- K8 AUXILIARY WATER PUMP RELAY

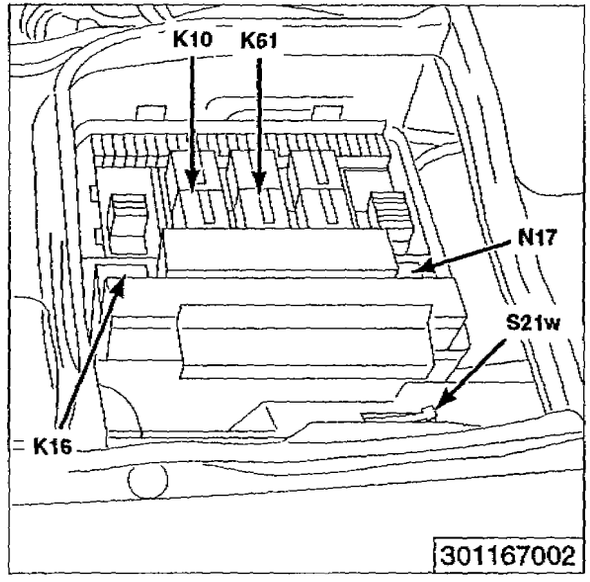


FIG 2 - In Front Power Distribution Box

- K10 ABS RELAY
- K16 HAZARD FLASHER RELAY
- K61 UNLOADER RELAY, TERMINAL 61
- N17 CRASH CONTROL MODULE
- S21w ENGINE HOOD SWITCH

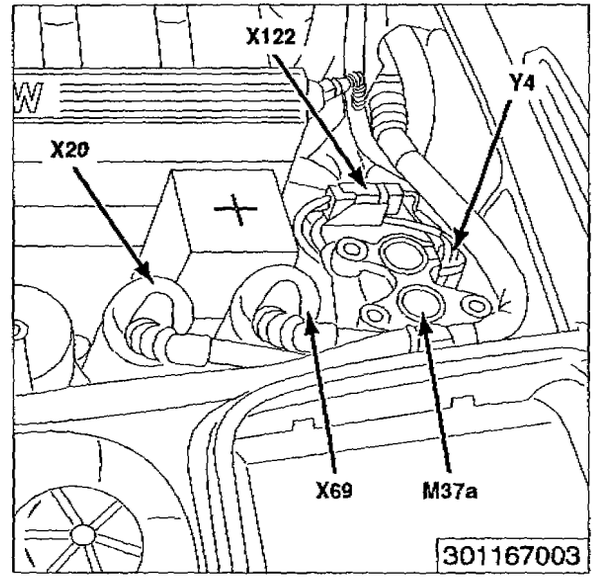


FIG 3 - Rear LH side of engine compartment

- M37a AUXILIARY WATER PUMP
- X20 CONNECTOR (25-PINS, BLACK)
- X69 CONNECTOR (25-PINS, BLACK)
- X122 CONNECTOR (2-PINS, BLACK)
- Y4 WATER VALVE ASSEMBLY

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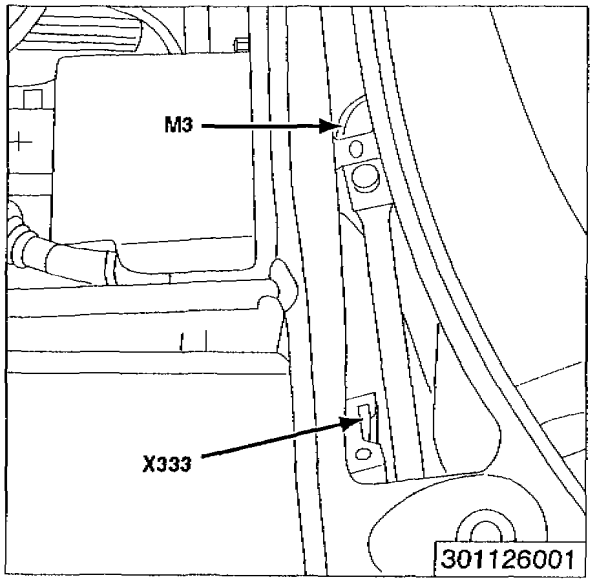


FIG 1 - Behind LH fresh air cowl

M3 WIPER MOTOR
X333 CONNECTOR (4-PINS, BLACK)

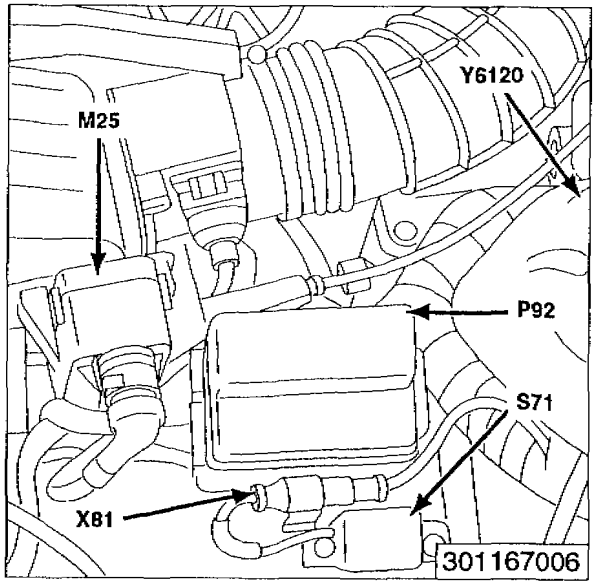


FIG 2 - LH side of engine compartment

M25 CRUISE CONTROL ACTUATOR (TEMPOMAT)
P92 AUXILIARY RELAY BOX
S71 LEFT FRONT IMPACT SENSOR
X81 CONNECTOR (3-PINS, ORANGE)
Y6120 EVAPORATIVE EMISSION VALVE

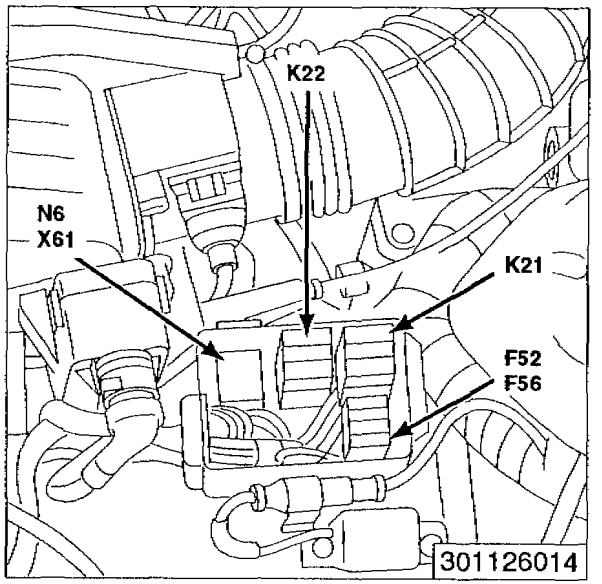


FIG 3 - In LH auxiliary relay box, engine compartment

F52 FUSE (10A)
F56 AUTOMATIC CUT-OUT
K21 NORMAL SPEED RELAY
K22 HIGH SPEED RELAY
N6 HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)
X61 CONNECTOR (9-PINS, BLACK)

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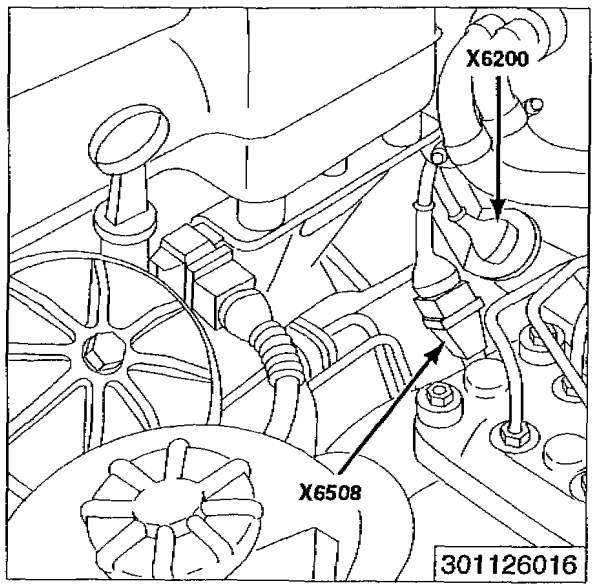


FIG 1 - LH side of engine (near oil level stick)

X6200 CONNECTOR (4-PINS, BLACK)
X6508 CONNECTOR (3-PINS, BLACK)

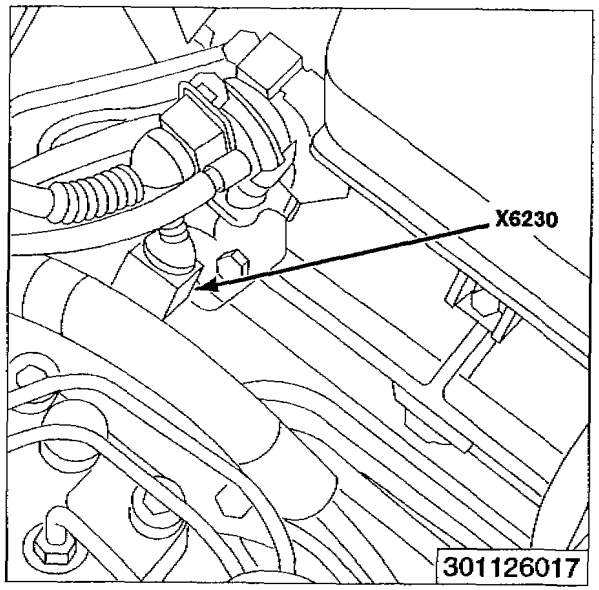


FIG 2 - LH side of engine

X6230 CONNECTOR (3-PINS, BLACK)

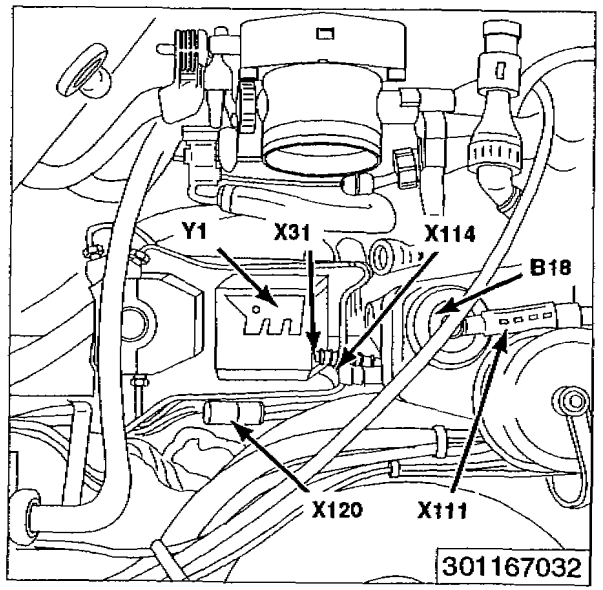


FIG 3 - LH side of engine compartment

B18 BRAKE FLUID LEVEL SWITCH
X31 CONNECTOR (12-PINS, BLACK)
X111 CONNECTOR (2-PINS, BLACK)
X114 CONNECTOR (2-PINS, BLACK)
X120 CONNECTOR (2-PINS, BLACK)
Y1 ABS HYDRAULIC UNIT

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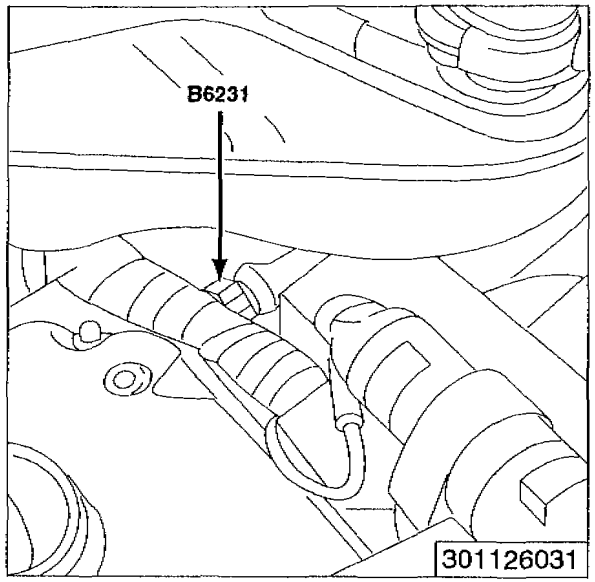


FIG 1 - Rear of engine (535I)

B6231 OIL PRESSURE SWITCH

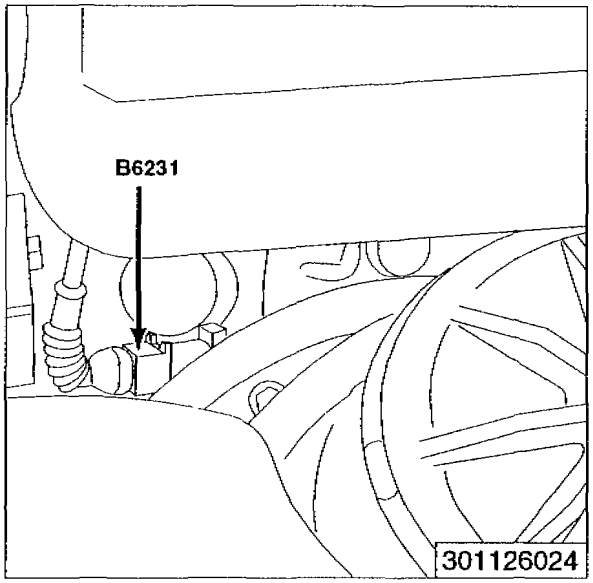


FIG 2 - Rear of engine (M5)

B6231 OIL PRESSURE SWITCH

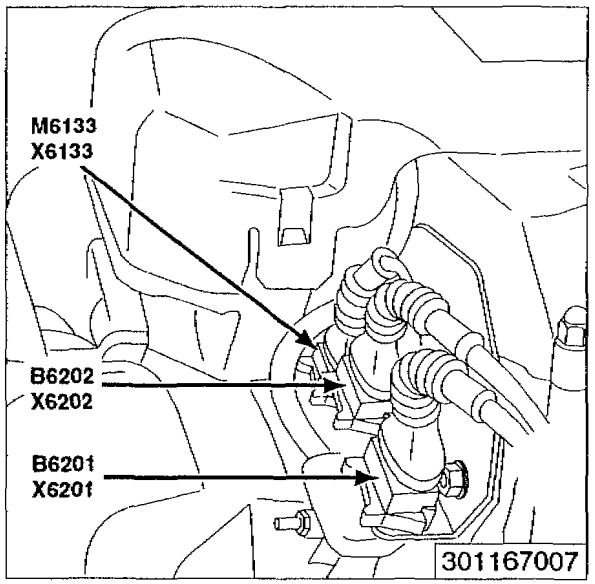


FIG 3 - Top front of engine (M5)

B6201 CYLINDER IDENTIFICATION SENSOR
B6202 CRANKSHAFT POSITION/RPM SENSOR
M6133 AIR PUMP
X6133 CONNECTOR (2-PINS, BLACK)
X6201 CONNECTOR (3-PINS, BLACK)
X6202 CONNECTOR (3-PINS, BLACK)

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COMPONENT LOCATION VIEWS

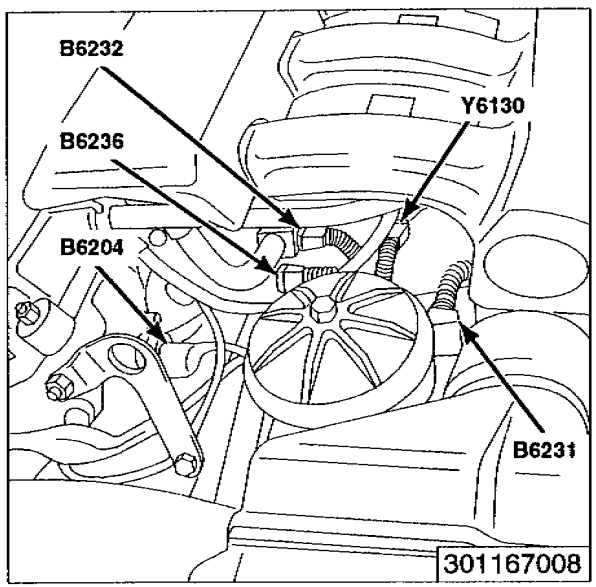


FIG. 1 - Front of engine (525i)

B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)
B6231 OIL PRESSURE SWITCH
B6232 ENGINE COOLANT TEMPERATURE SENSOR
B6236 ENGINE COOLANT TEMPERATURE SENSOR
Y6130 IDLE SPEED CONTROL VALVE

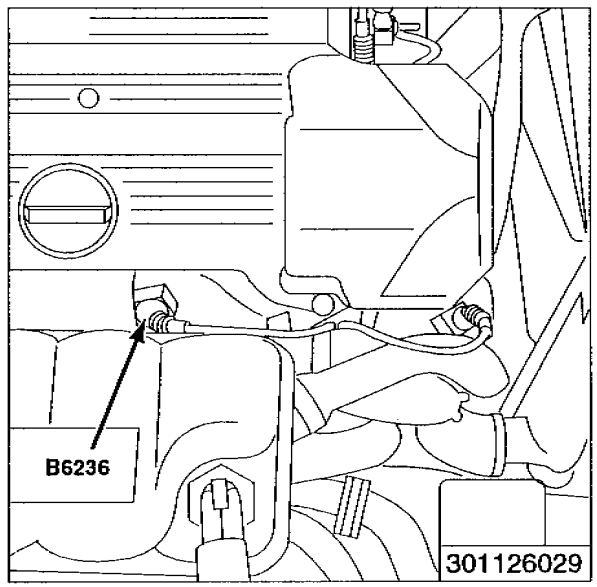


FIG. 2 - Front of engine (M5)

B6236 ENGINE COOLANT TEMPERATURE SENSOR

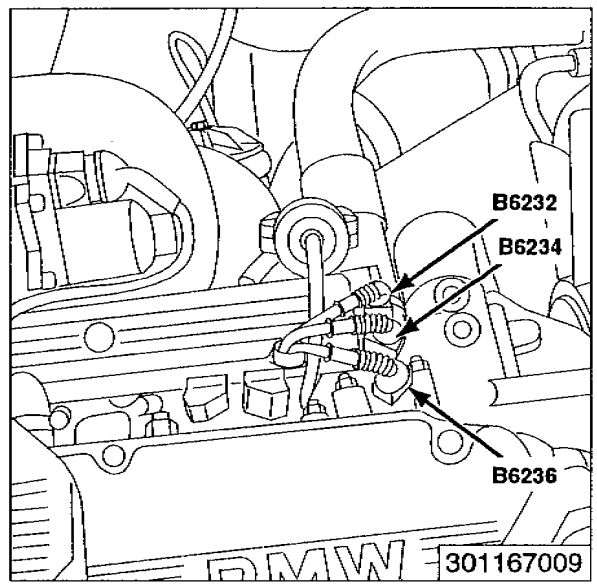


FIG. 3 - Front of engine (535i)

B6232 ENGINE COOLANT TEMPERATURE SENSOR
B6234 ENGINE COOLANT TEMP. SENSOR (EML)
B6236 ENGINE COOLANT TEMPERATURE SENSOR

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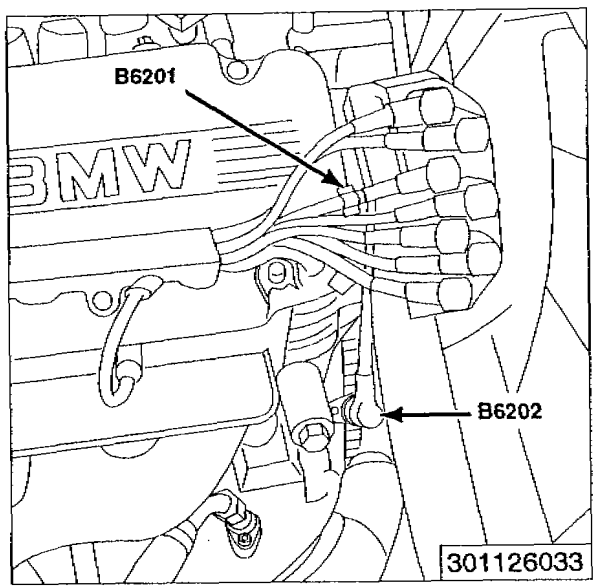


FIG. 1 - RH side of engine RH side of oil filter

B6201 CYLINDER IDENTIFICATION SENSOR
B6202 CRANKSHAFT POSITION/RPM SENSOR

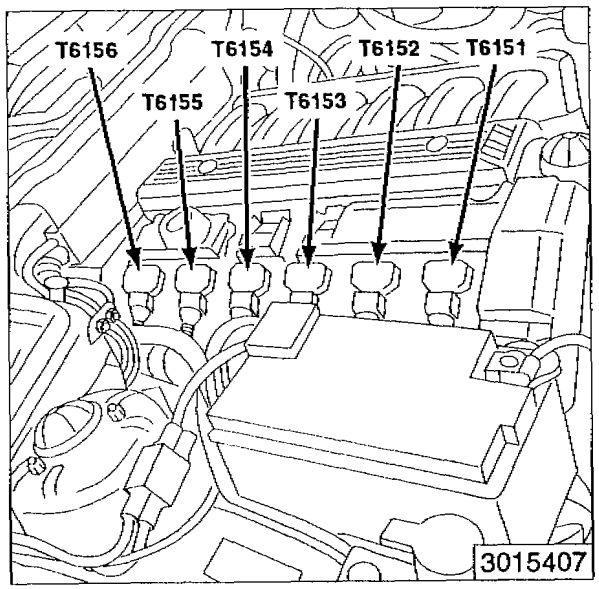


FIG. 2 - RH side of engine (525i)

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

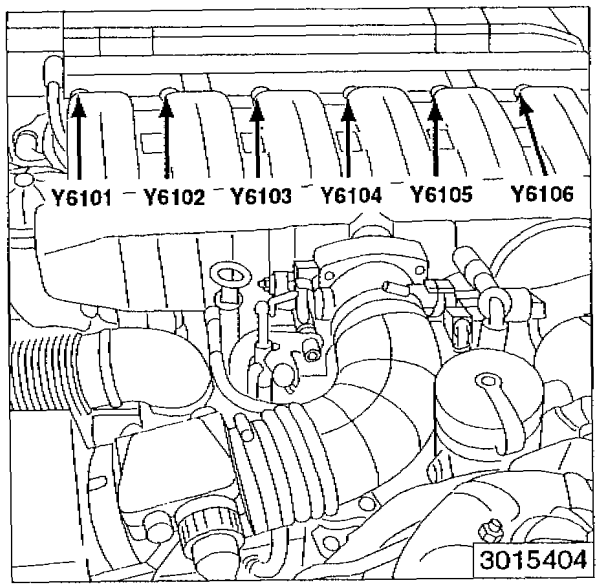


FIG. 3 - Front of engine (525i)

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

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COMPONENT LOCATION VIEWS

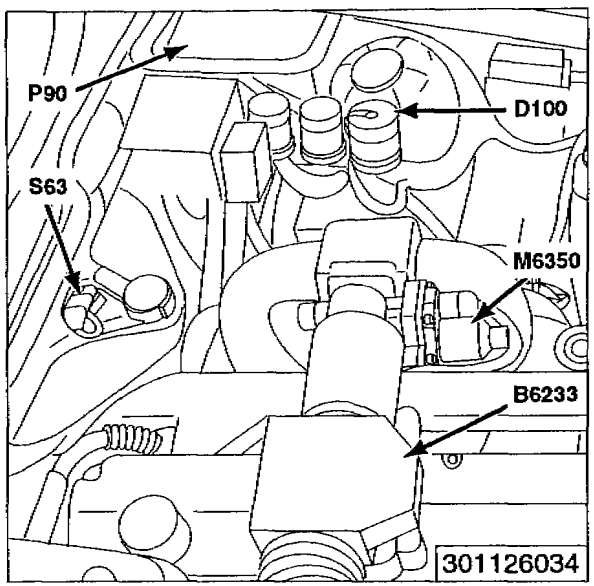


FIG. 1 - LH side of engine compartment (535i)

B6233 VOLUME AIR FLOW SENSOR
D100 DATA LINK CONNECTOR
M6350 ELECTRONIC THROTTLE ACTUATOR (EML)
P90 FRONT POWER DISTRIBUTION BOX
S63 ENGINE COOLANT LEVEL SWITCH

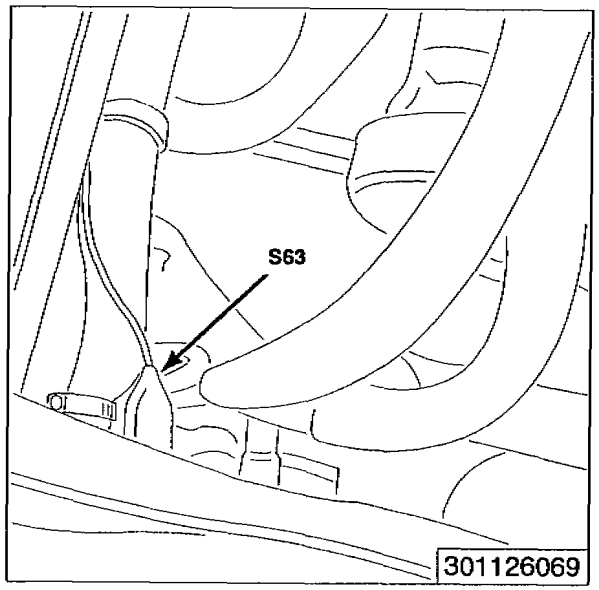


FIG. 2 - Top center of engine (525i)

S63 ENGINE COOLANT LEVEL SWITCH

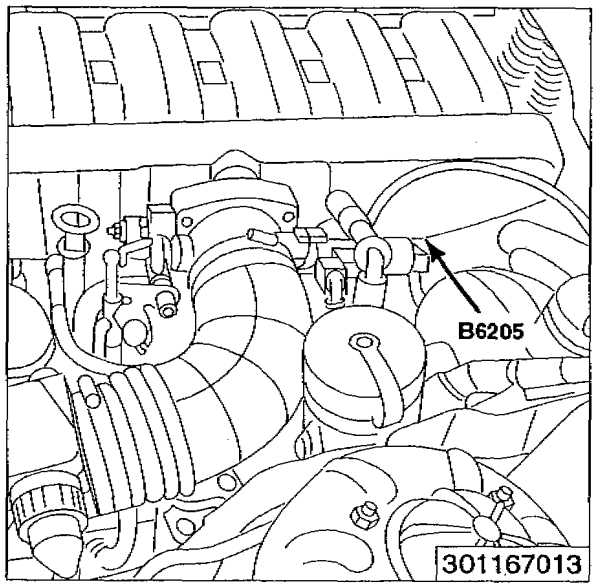


FIG. 3 - Front of engine

B6205 INTAKE AIR TEMPERATURE SENSOR

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COMPONENT LOCATION VIEWS

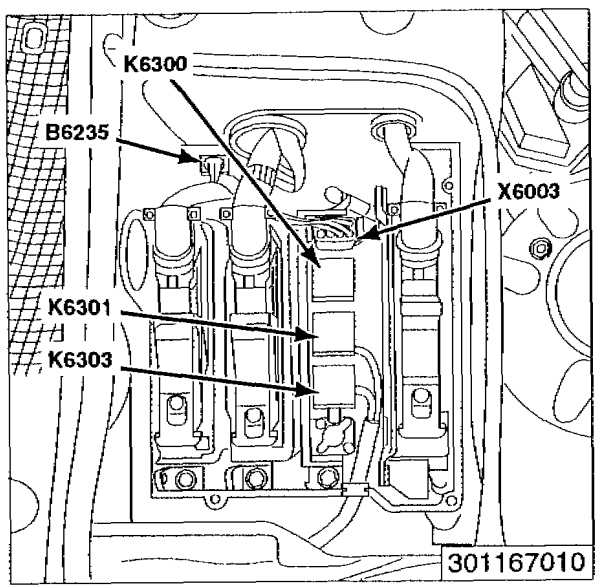


FIG. 1 - Rear RH side of engine compartment (525i)

B6235 TEMPERATURE SWITCH
K6300 ENGINE CONTROL MODULE RELAY
K6301 CYL. 1-6 FUEL PUMP RELAY
K6303 OXYGEN SENSOR RELAY
X6003 CONNECTOR (8-PINS, BLACK)

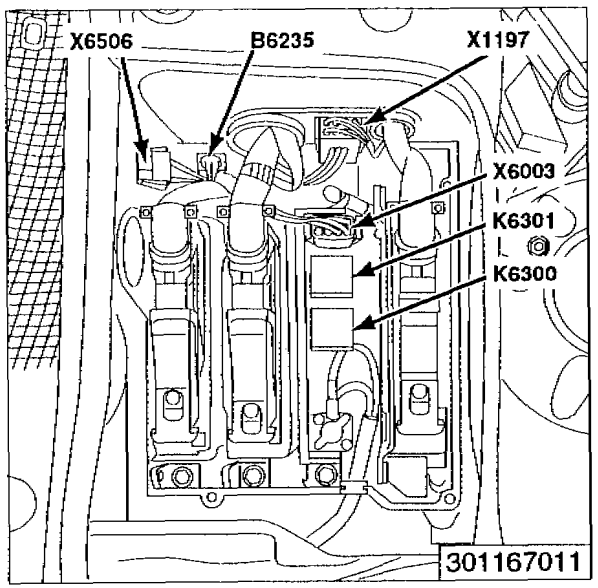


FIG. 2 - Rear RH side of engine compartment (535i)

B6235 TEMPERATURE SWITCH
K6300 ENGINE CONTROL MODULE RELAY
K6301 CYL. 1-6 FUEL PUMP RELAY
X1197 CONNECTOR (8-PINS, WHITE)
X6003 CONNECTOR (8-PINS, BLACK)
X6506 CONNECTOR (4-PINS, BLACK)

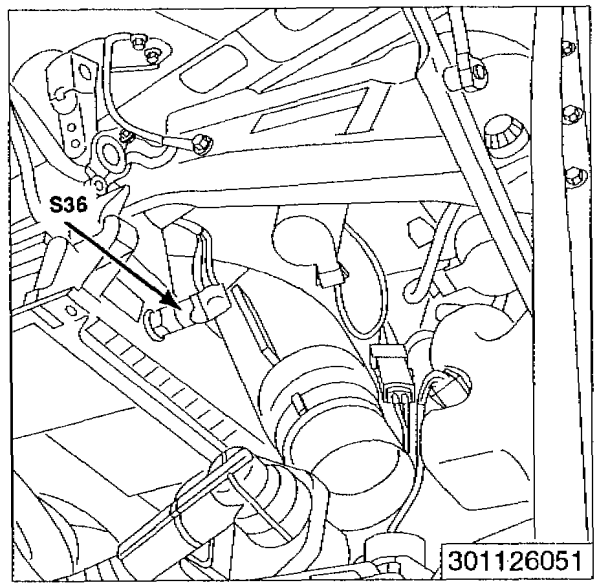


FIG. 3 - Front RH side of engine compartment

S36 TEMPERATURE SWITCH

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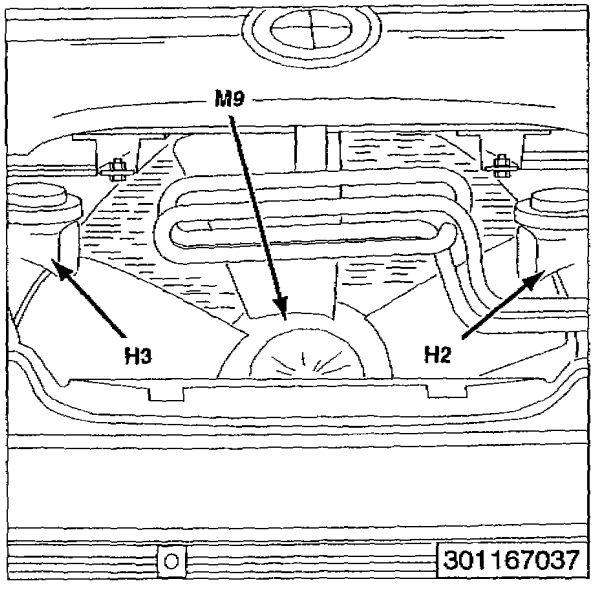


FIG 1 - Behind front grille

H2 LEFT HORN
H3 RIGHT HORN
M9 AUXILIARY FAN MOTOR

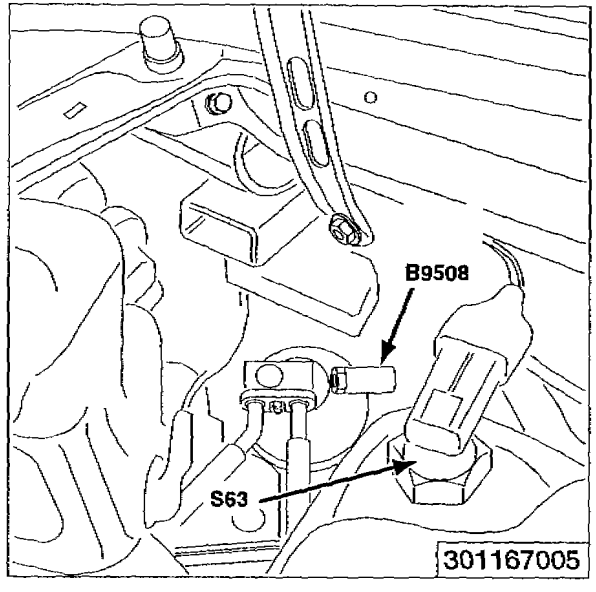


FIG 2 - Front RH side of engine compartment (M5)

B9508 PRESSURE SWITCH
S63 ENGINE COOLANT LEVEL SWITCH

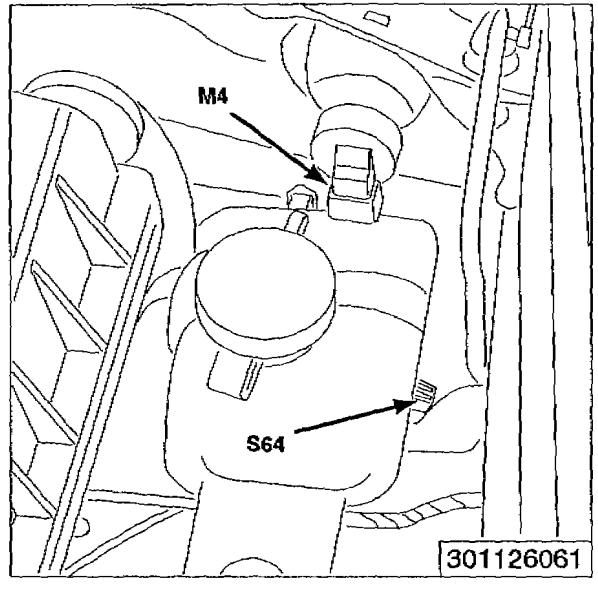


FIG 3 - Front RH side of engine compartment on washer fluid reservoir

M4 WASHER PUMP
S64 WASHER FLUID LEVEL SWITCH

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COMPONENT LOCATION VIEWS

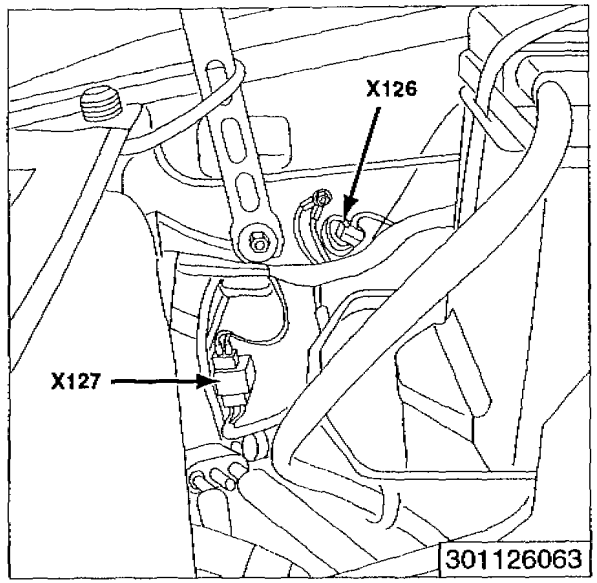


FIG 1 - Front RH side of engine compartment ahead of wheel well

X126 CONNECTOR (2-PINS, WHITE)
X127 CONNECTOR (2-PINS, BLACK)

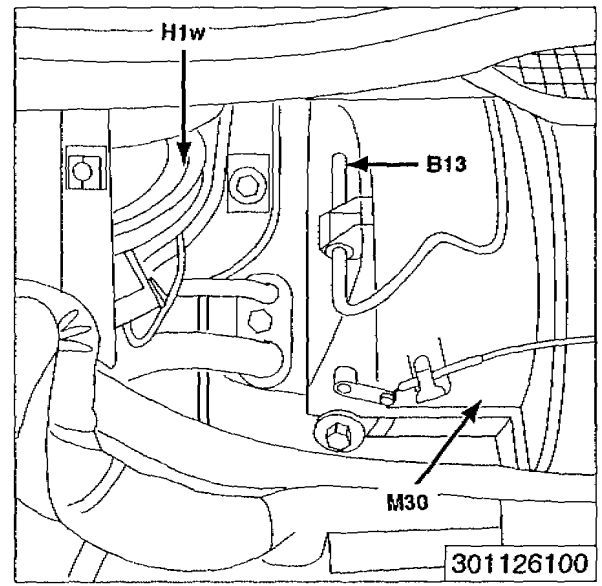


FIG 2 - Rear LH side of engine compartment

B13 OUTSIDE TEMPERATURE SENSOR
H1w ANTI-THEFT HORN (ALPINE)
M30 BLOWER MOTOR

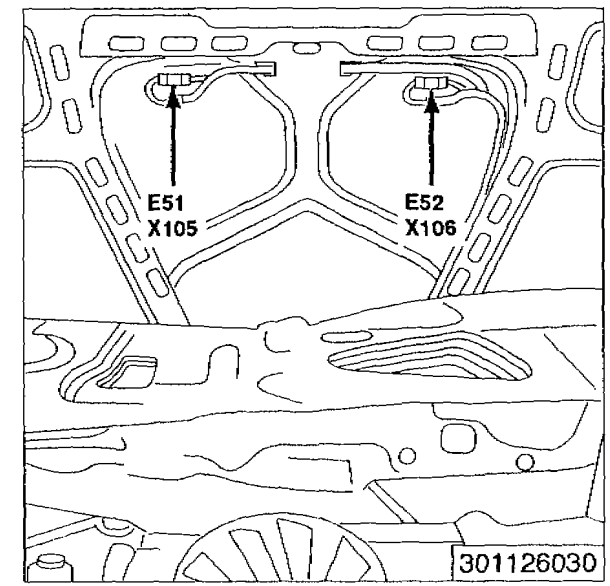


FIG 3 - On underside of engine hood

E51 LEFT WASHER JET HEATER
E52 RIGHT WASHER JET HEATER
X105 CONNECTOR (2-PINS, GRAY)
X106 CONNECTOR (2-PINS, GRAY)

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COMPONENT LOCATION VIEWS

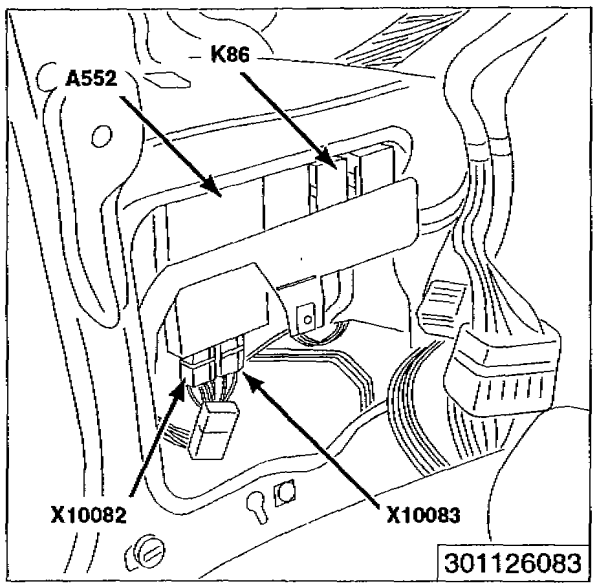


FIG. 1 - Behind LH footwell trim

A552	A/C COMPRESSOR CONTROL MODULE
K86	WIDE OPEN THROTTLE CUT-OFF RELAY
X10082	CONNECTOR (5-PINS, GREEN)
X10083	CONNECTOR (4-PINS, BLACK)

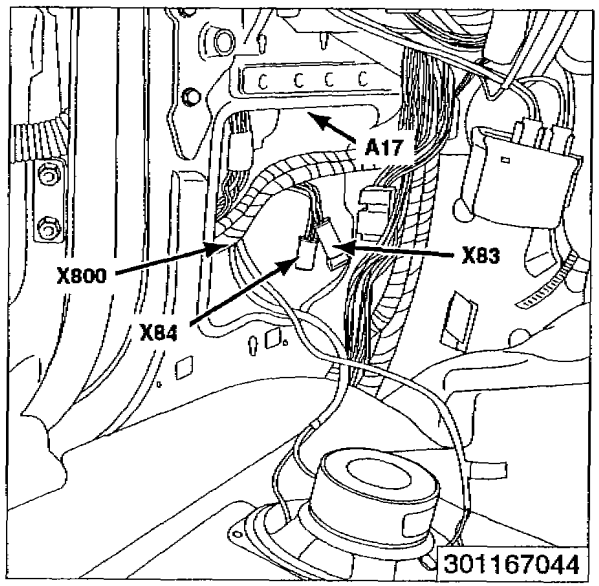


FIG. 2 - Behind LH footwell trim

A17	SERVOTRONIC CONTROL MODULE
X83	CONNECTOR (3-PINS, YELLOW)
X84	CONNECTOR (3-PINS, YELLOW)
X800	CONNECTOR (2-PINS, WHITE)

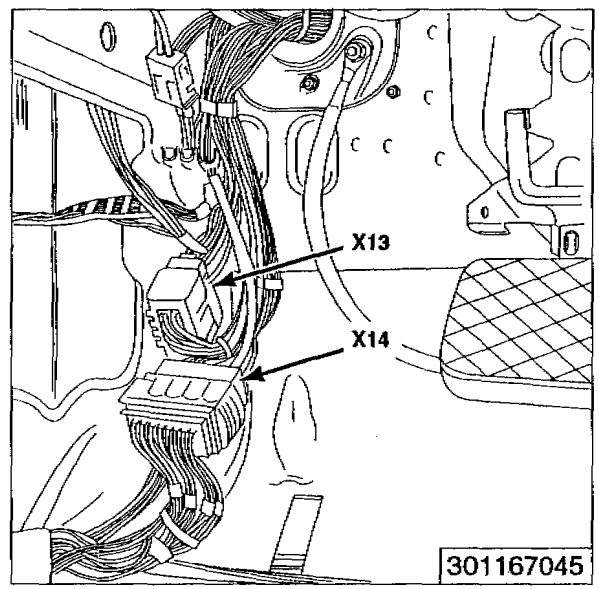


FIG. 3 - Behind LH footwell trim

X13	CONNECTOR (21-PINS, WHITE)
X14	CONNECTOR (30-PINS, YELLOW)

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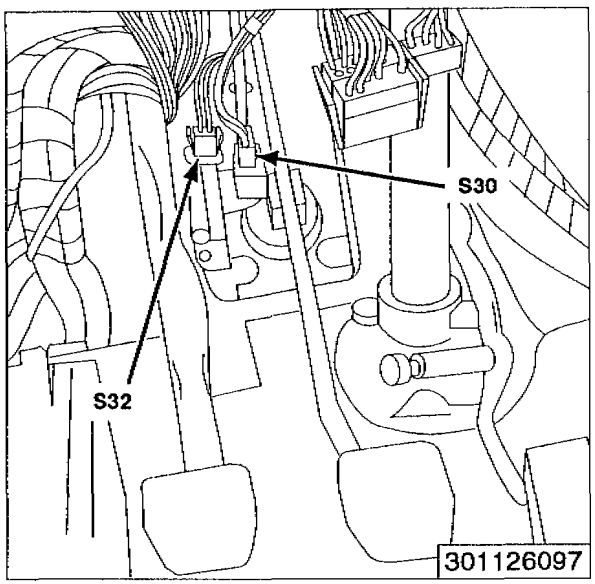


FIG. 1 - LH footwell

S30 BRAKE LIGHT SWITCH
S32 CLUTCH SWITCH

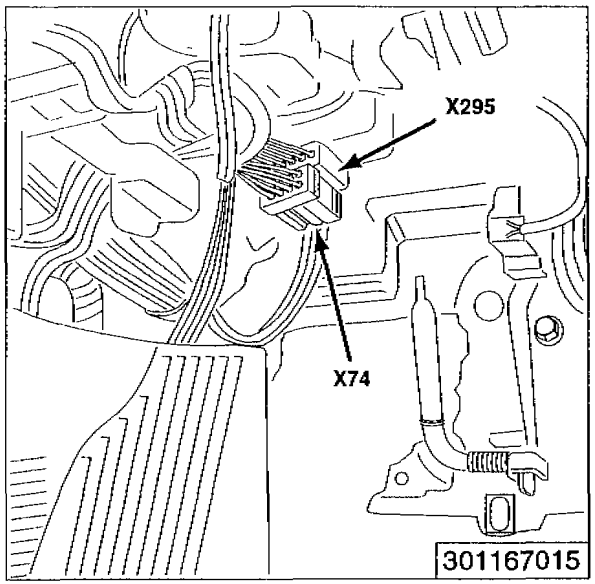


FIG. 2 - LH footwell

X74 CONNECTOR (12-PINS, ORANGE)
X295 CONNECTOR (8-PINS, BLACK)

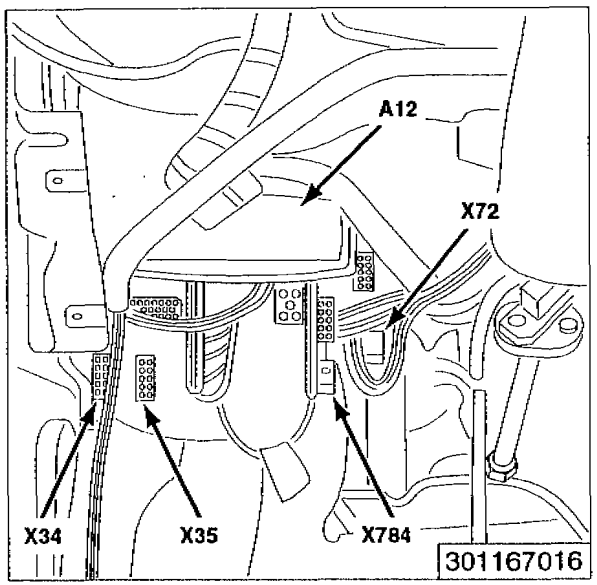


FIG. 3 - LH footwell

A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE
X34 CONNECTOR (12-PINS, WHITE)
X35 CONNECTOR (21-PINS, BLACK)
X72 CONNECTOR (8-PINS, WHITE)
X784 CONNECTOR (12-PINS, ORANGE)

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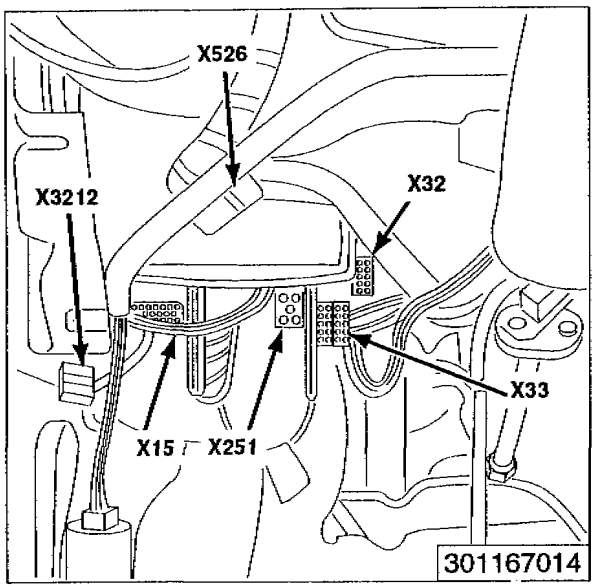


FIG. 1 - LH footwell

X15 CONNECTOR (30-PINS, WHITE)
X32 CONNECTOR (12-PINS, WHITE)
X33 CONNECTOR (12-PINS, BLACK)
X251 CONNECTOR (30-PINS, BLACK)
X526 CONNECTOR (8-PINS, BLACK)
X3212 CONNECTOR (4-PINS, BLACK)

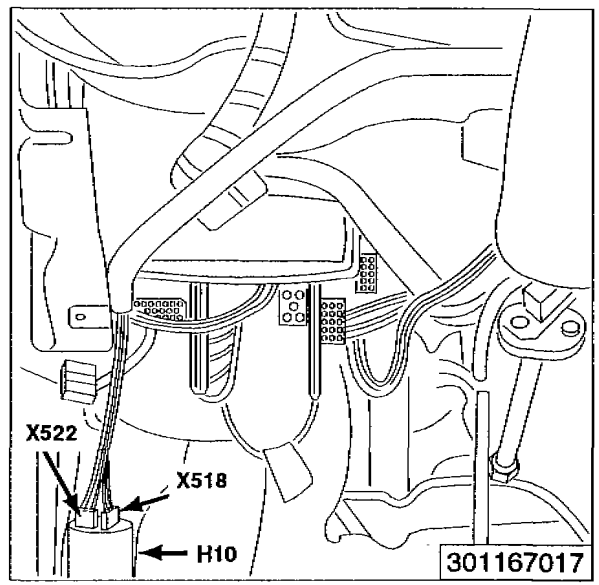


FIG. 2 - LH footwell

H10 CHIME MODULE
X518 CONNECTOR (4-PINS, BLACK)
X522 CONNECTOR (3-PINS, WHITE)

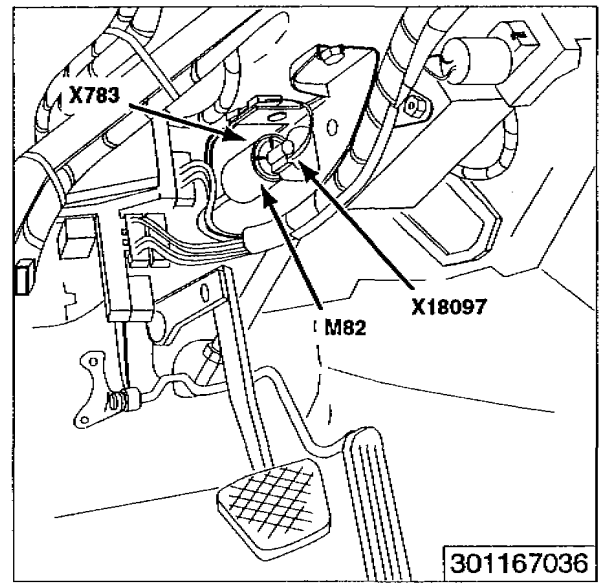


FIG. 3 - Below LH side of dash

M82 STEERING COLUMN LENGTH ADJUST MOTOR
X783 CONNECTOR (2-PINS, ORANGE)
X18097 CONNECTOR (2-PINS, BLACK)

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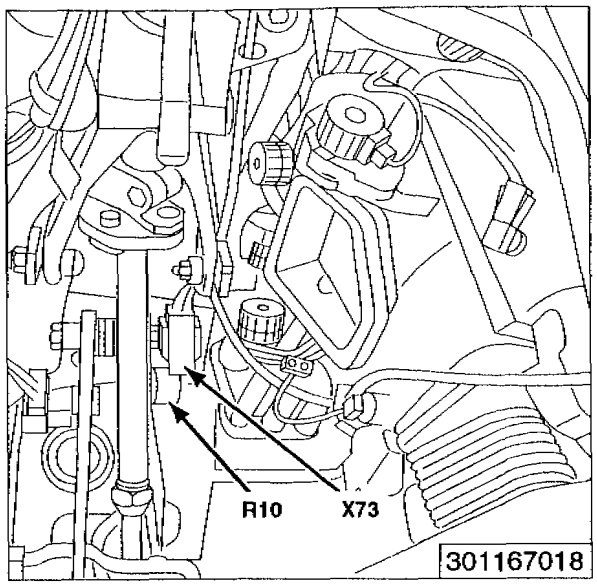


FIG. 1 - LH footwell

R10 PEDAL POSITION SENSOR
X73 CONNECTOR (8-PINS, BLACK)

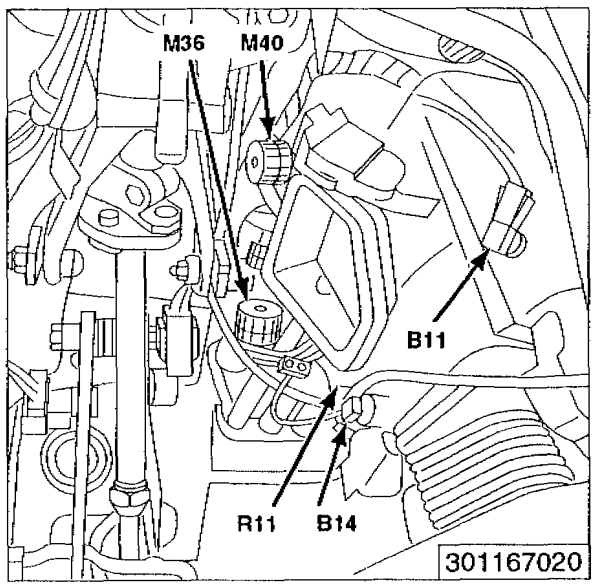


FIG. 2 - LH footwell LH side of IHKR/F3 Plenum

B11 LH HEAT EXCHANGER TEMPERATURE SENSOR
B14 EVAPORATOR TEMPERATURE SENSOR
M36 FRESH AIR FLAP MOTOR
M40 RECIRCULATION FLAP MOTOR
R11 BLOWER RESISTORS

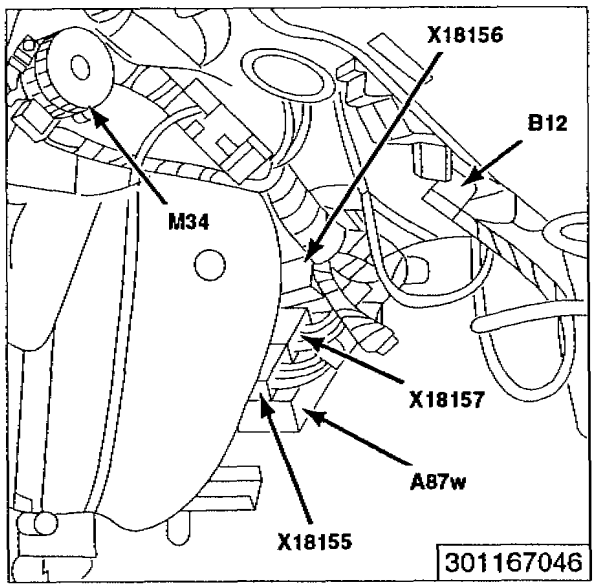


FIG. 3 - LH side of RH footwell

A87w INTEGRATED CLIMATE REGULATION CONTROL MODULE (IHKR/F3)
B12 RH HEAT EXCHANGER TEMPERATURE SENSOR
M34 DASH VENT MIXING FLAP MOTOR
X18155 CONNECTOR (26-PINS, WHITE)
X18156 CONNECTOR (26-PINS, BLUE)
X18157 CONNECTOR (26-PINS, BLUE)

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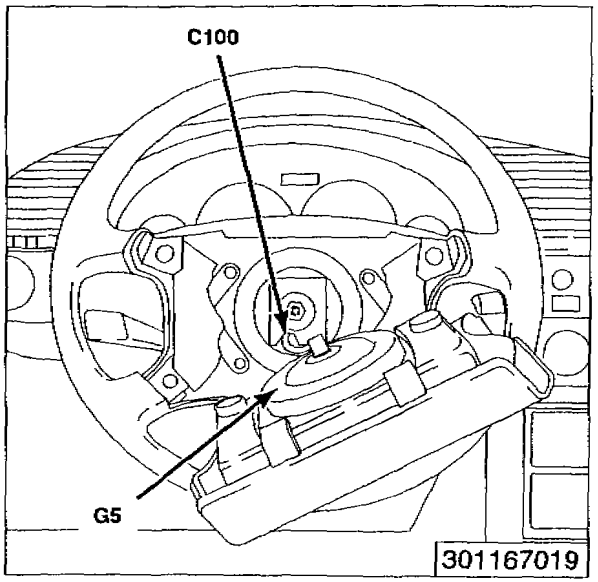


FIG 1 - Top of steering column

C100 CONTACT RING
G5 DRIVER'S AIR BAG GENERATOR

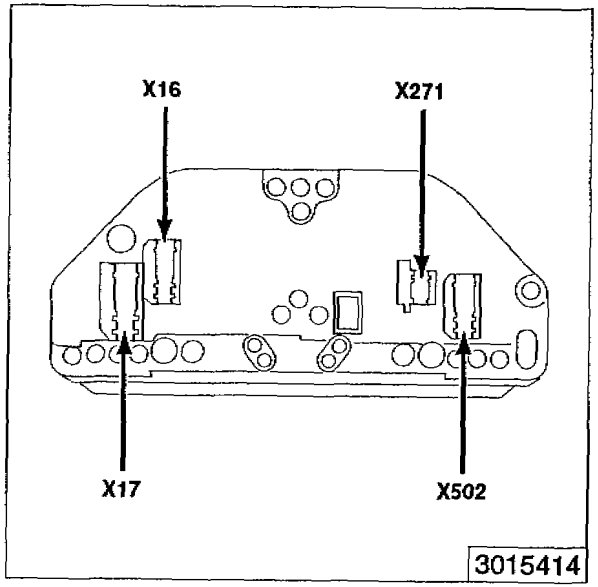


FIG 2 - Rear of A2 Instrument cluster

X16 CONNECTOR (26-PINS, NATURAL)
X17 CONNECTOR (6-PINS, BROWN)
X271 CONNECTOR (12-PINS, GRAY)
X502 CONNECTOR (26-PINS, BLACK)

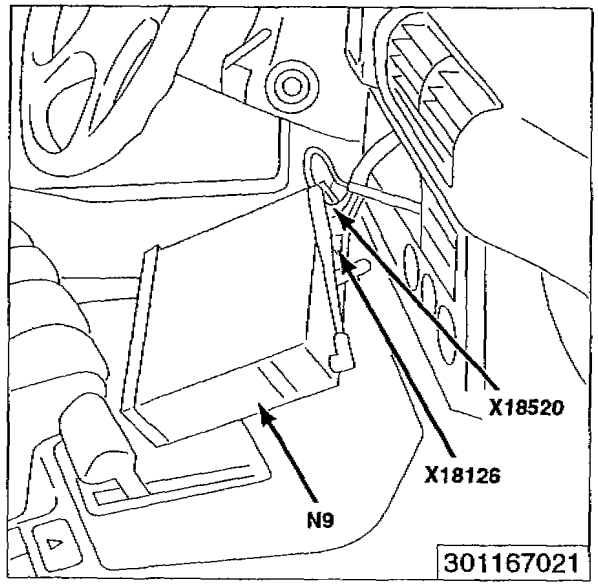


FIG 3 - Center of dash

N9 RADIO
X18126 CONNECTOR (17-PINS, BLACK)
X18520 CONNECTOR (10-PINS, BLACK)

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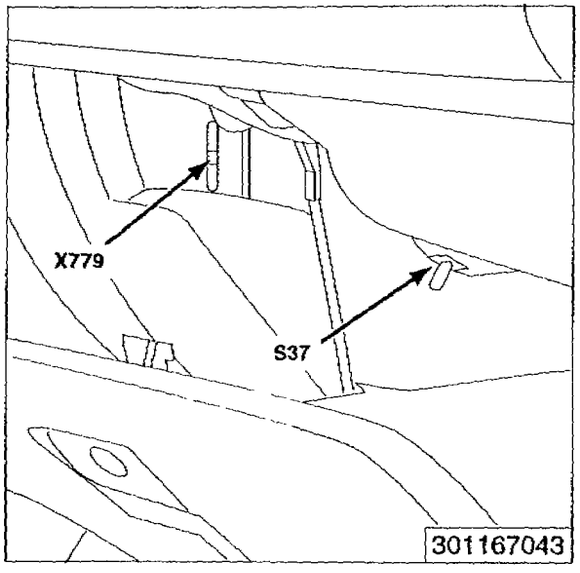


FIG 1 - LH side of glove box

S37 GLOVE BOX LIGHT SWITCH
X779 CHARGING SOCKET

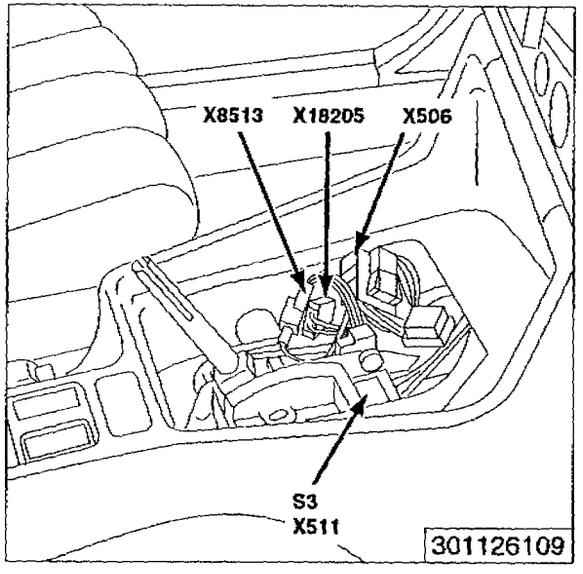


FIG 2 - Below center console front of gearshift selector

S3 AUTOMATIC TRANSMISSION RANGE SWITCH
X506 CONNECTOR (12-PINS, BLACK)
X511 CONNECTOR (8-PINS, BLACK)
X8513 CONNECTOR (2-PINS, WHITE)
X18205 CONNECTOR (2-PINS, WHITE)

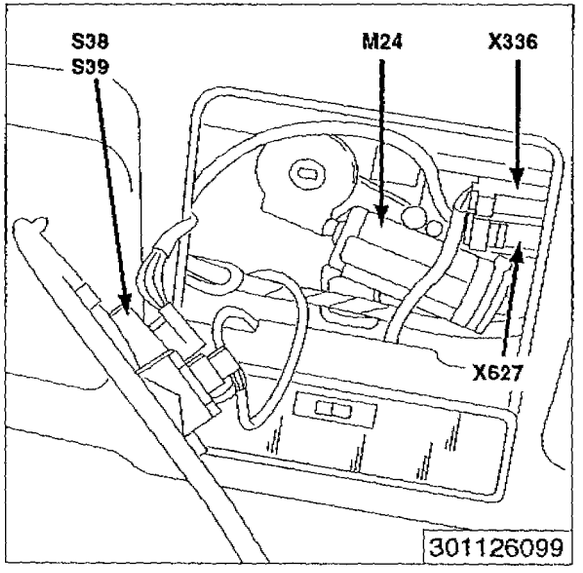


FIG 3 - Center of windshield header near rear view mirror

M24 SUNROOF MOTOR
S38 SUNROOF SWITCH
S39 SUNROOF POSITION SWITCH
X336 CONNECTOR (4-PINS, WHITE)
X627 CONNECTOR (8-PINS, BLACK)

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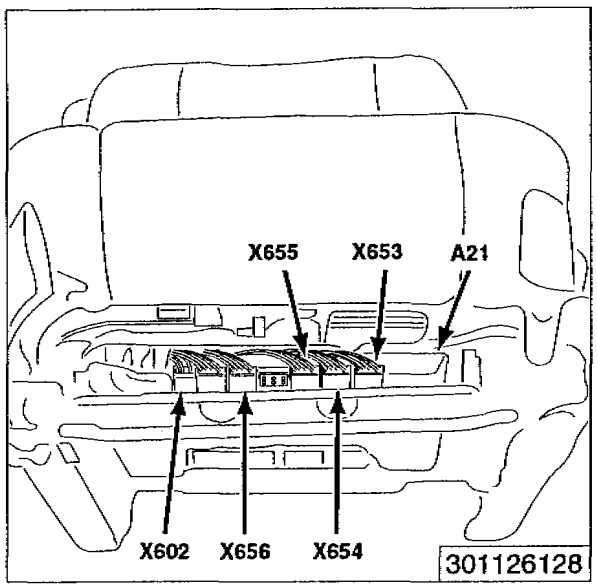


FIG. 1 - Underside of LH front seat

- A21 SEAT/MIRROR MEMORY CONTROL MODULE
- X602 CONNECTOR (26-PINS, YELLOW)
- X653 CONNECTOR (6-PINS, BLACK)
- X654 CONNECTOR (6-PINS, WHITE)
- X655 CONNECTOR (6-PINS, BLUE)
- X656 CONNECTOR (6-PINS, GREEN)

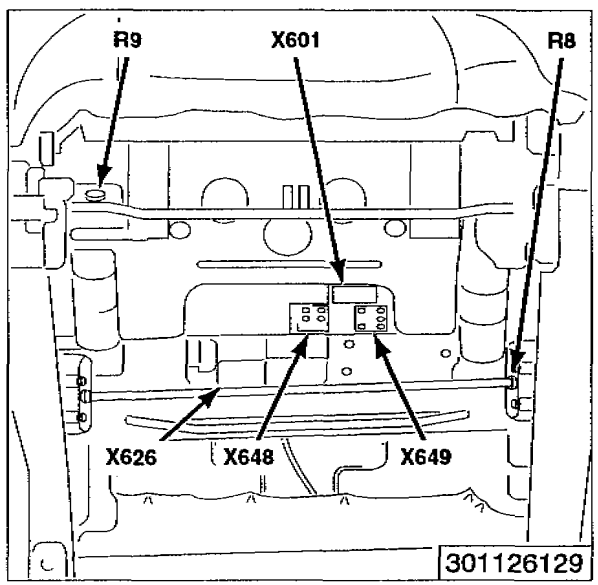


FIG. 2 - Underside of LH front seat

- R8 SEAT CUSHION REAR HEIGHT POTENTIOMETER
- R9 SEAT CUSHION MOVEMENT POTENTIOMETER
- X601 CONNECTOR (26-PINS, WHITE)
- X626 CONNECTOR (8-PINS, BLACK)
- X648 CONNECTOR (6-PINS, BLACK)
- X649 CONNECTOR (6-PINS, WHITE)

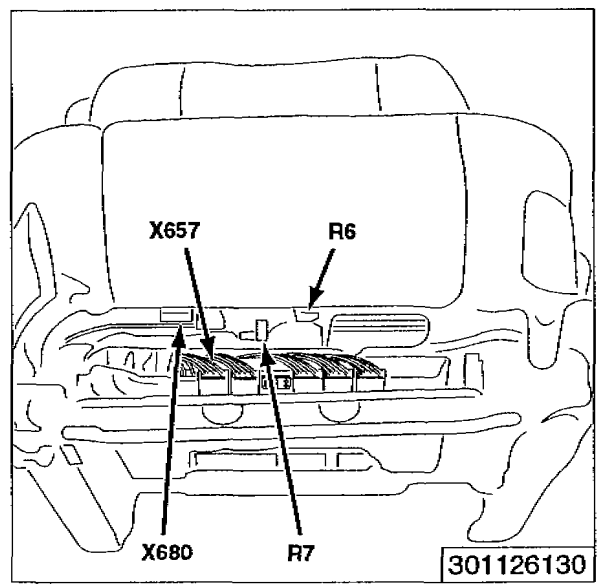


FIG. 3 - Underside of LH front seat

- R6 SEAT HEIGHT POTENTIOMETER
- R7 SEATBACK POTENTIOMETER
- X657 CONNECTOR (6-PINS, BROWN)
- X680 CONNECTOR (3-PINS, BLACK)

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COMPONENT LOCATION VIEWS

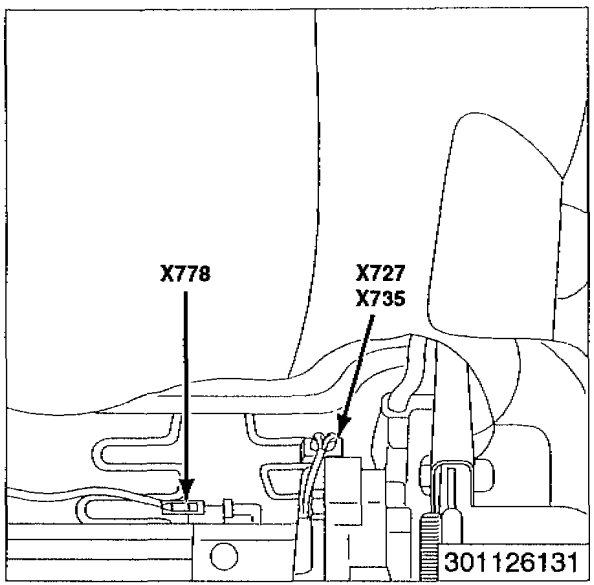


FIG. 1 - Underside of LH front seat

X727 CONNECTOR (2-PINS, WHITE)
X735 CONNECTOR (2-PINS, WHITE)
X778 CONNECTOR (2-PINS, BLACK)

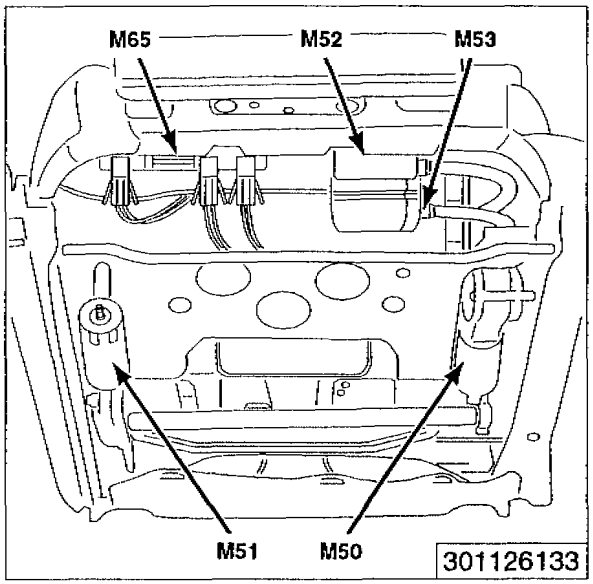


FIG. 2 - Underside of LH front seat

M50 DRIVER'S SEAT CUSHION TILT MOTOR
M51 DRIVER'S SEAT MOVEMENT MOTOR
M52 DRIVER'S SEAT HEIGHT MOTOR
M53 DRIVER'S SEATBACK RECLINER MOTOR
M65 DRIVER'S THIGH SUPPORT MOTOR

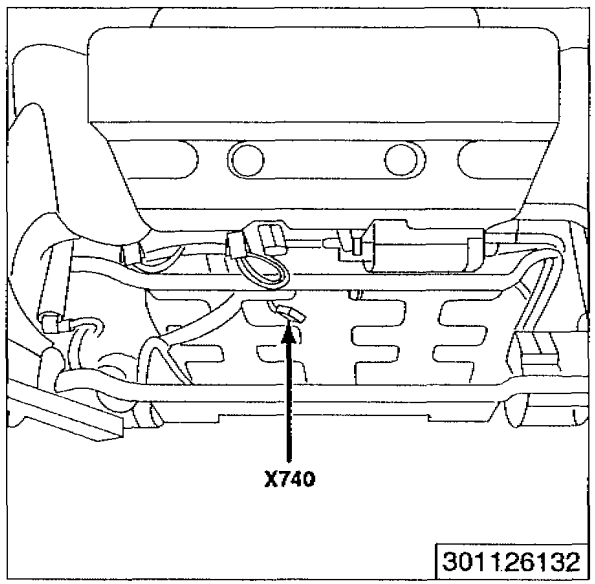


FIG. 3 - Underside of LH front seat

X740 CONNECTOR (2-PINS, WHITE)

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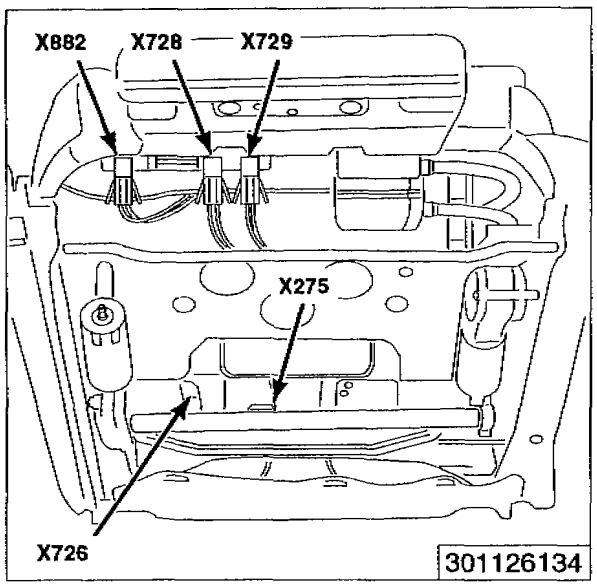


FIG. 1 - Underside of LH front seat

X275 CONNECTOR (12-PINS, WHITE)
X726 CONNECTOR (2-PINS, BLACK)
X728 CONNECTOR (2-PINS, WHITE)
X729 CONNECTOR (2-PINS, BLACK)
X882 CONNECTOR (2-PINS, BLACK)

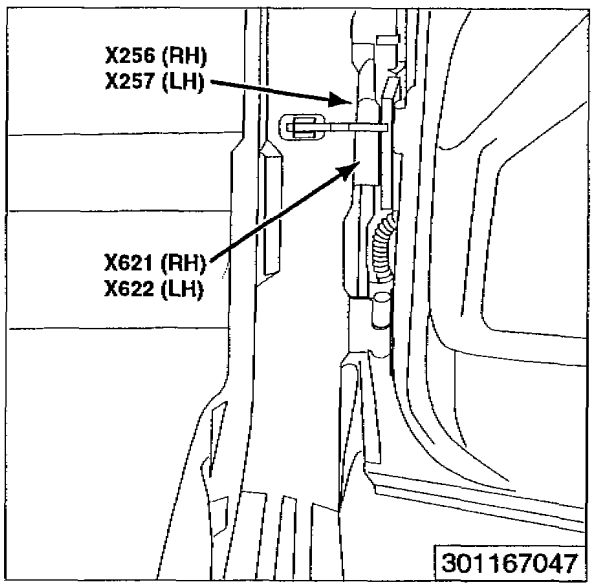


FIG. 2 - Passenger's door (LH similar)

X256 CONNECTOR (26-PINS, BLACK)
X257 CONNECTOR (26-PINS, BLACK)
X621 CONNECTOR (10-PINS, BLACK)
X622 CONNECTOR (10-PINS, BLACK)

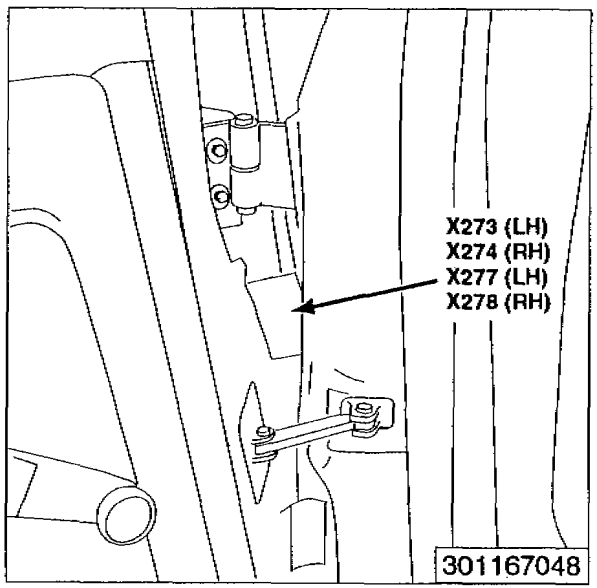


FIG. 3 - Ahead of LH rear door

X273 CONNECTOR (12-PINS, BLACK)
X274 CONNECTOR (12-PINS, BLACK)
X277 CONNECTOR (10-PINS, BLACK)
X278 CONNECTOR (10-PINS, BLACK)

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COMPONENT LOCATION VIEWS

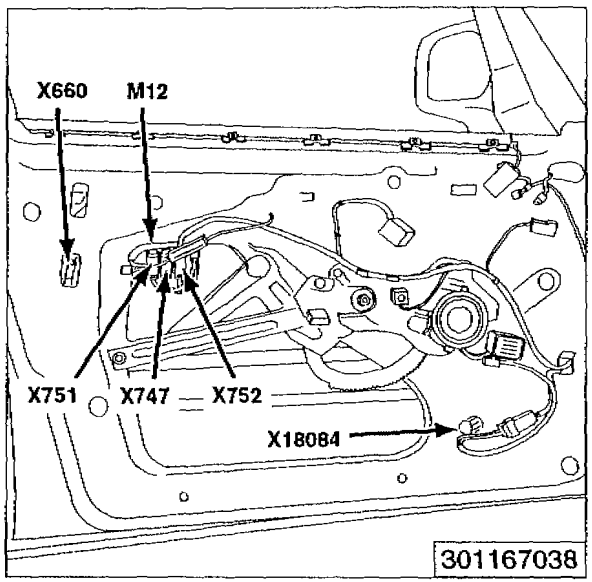


FIG 1 - In upper LH front door

M12	DRIVER'S DOOR LOCK MOTOR
X660	CONNECTOR (6-PINS, BLACK)
X751	CONNECTOR (2-PINS, WHITE)
X752	CONNECTOR (2-PINS, GRAY)
X747	CONNECTOR (2-PINS, YELLOW)
X18084	CONNECTOR (2-PINS, WHITE)

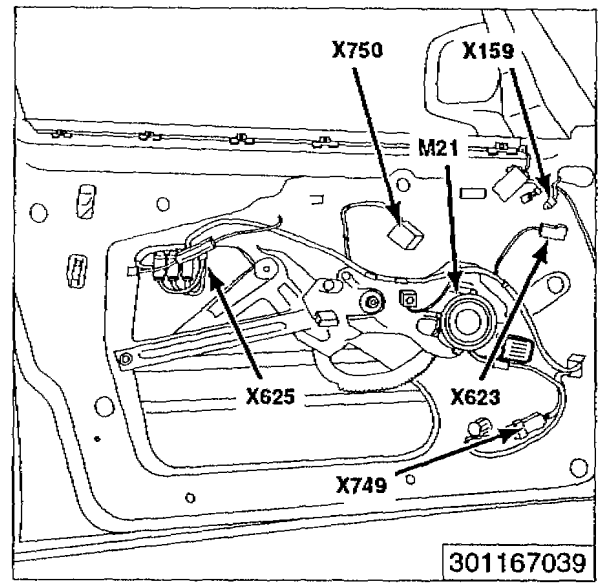


FIG 2 - In lower LH front door

X159	CONNECTOR (10-PINS, BLACK)
X623	CONNECTOR (4-PINS, BLACK)
X625	CONNECTOR (6-PINS, BLACK)
X749	CONNECTOR (2-PINS, GRAY)
X750	CONNECTOR (1-PINS, (---))
M21	DRIVER'S WINDOW MOTOR

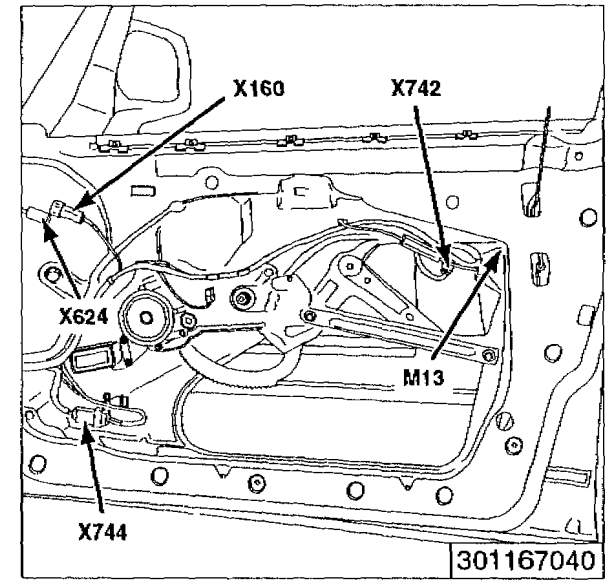


FIG 3 - In lower RH front door

M13	PASSENGER'S DOOR LOCK MOTOR
X160	CONNECTOR (10-PINS, BLACK)
X624	CONNECTOR (4-PINS, BLACK)
X742	CONNECTOR (2-PINS, YELLOW)
X744	CONNECTOR (2-PINS, GRAY)

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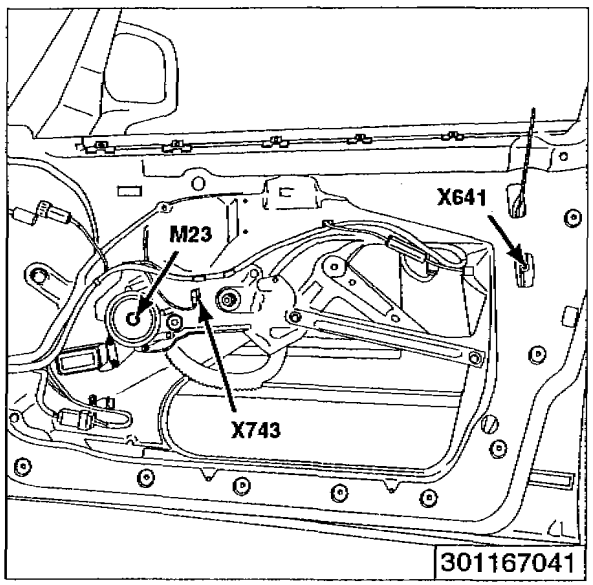


FIG. 1 - In lower RH front door

M23 PASSENGER'S WINDOW MOTOR
X641 CONNECTOR (6-PINS, BLACK)
X743 CONNECTOR (2-PINS, BLACK)

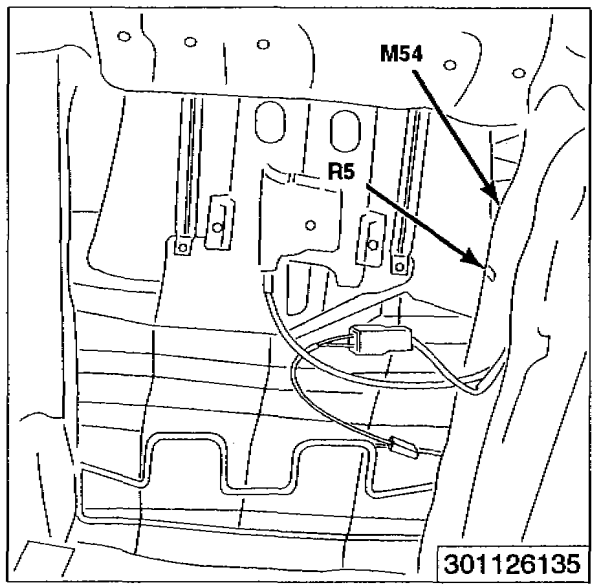


FIG. 2 - In upper LH front seatback

M54 DRIVER'S HEADREST MOTOR
R5 HEADREST POTENTIOMETER

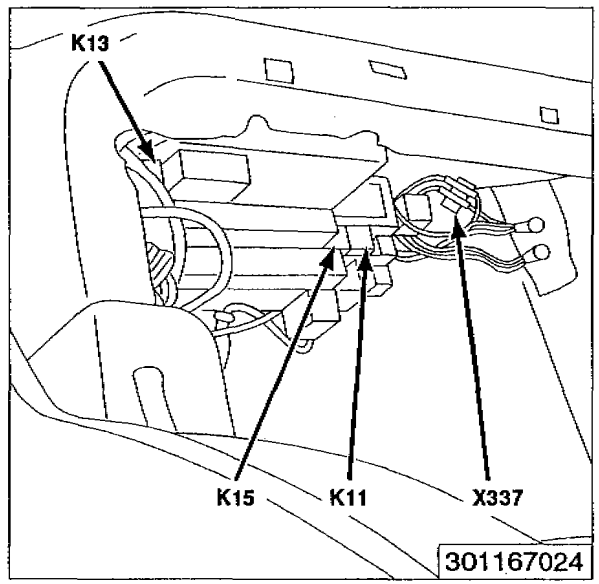


FIG. 3 - Below LH side of rear seat

K11 WIPER RELAY
K13 REAR DEFOGGER RELAY
K15 ELECTRIC POWER PROTECTION RELAY
X337 CONNECTOR (4-PINS, BLACK)

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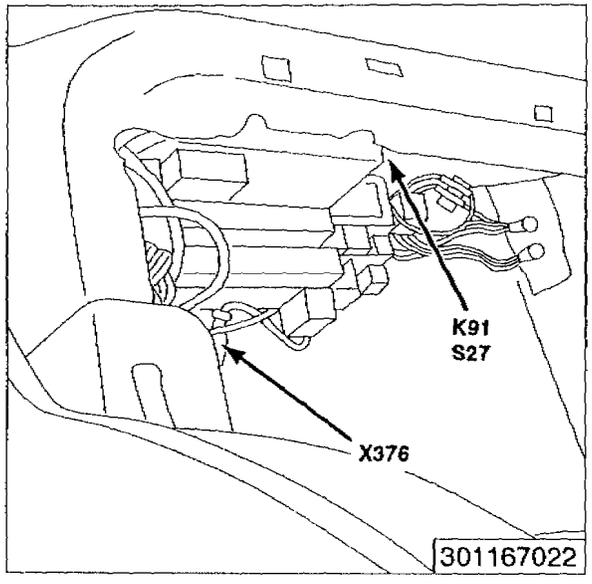


FIG 1 - Below LH side of rear seat

K91 ON-BOARD COMPUTER HORN RELAY
S27 INERTIA SWITCH
X376 CONNECTOR (2-PINS, WHITE)

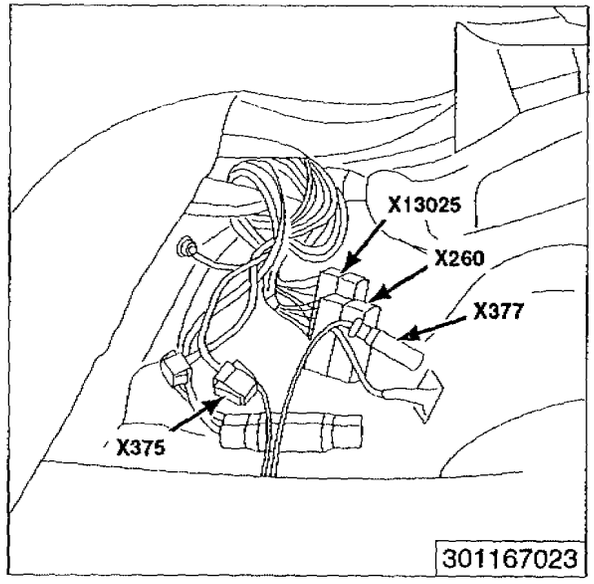


FIG 2 - Below RH side of rear seat

X260 CONNECTOR (21-PINS, BLACK)
X375 CONNECTOR (2-PINS, BLACK)
X377 CONNECTOR (2-PINS, WHITE)
X13025 CONNECTOR (12-PINS, BLACK)

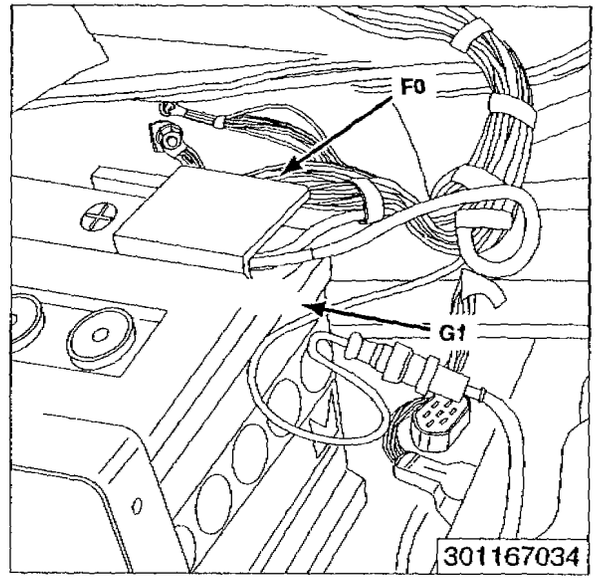


FIG 3 - Below RH side of rear seat

F0 FUSIBLE LINK
G1 BATTERY

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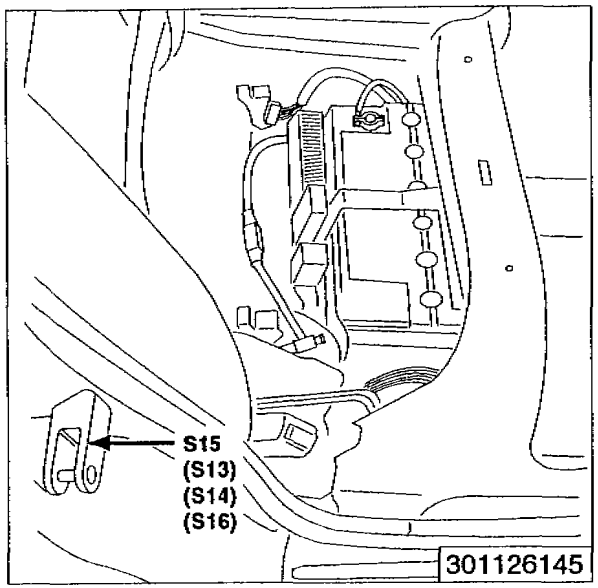


FIG. 1 - Ahead of RH rear door

- S13 PASSENGER'S DOOR JAMB SWITCH
- S14 DRIVER'S DOOR JAMB SWITCH
- S15 REAR RIGHT DOOR JAMB SWITCH
- S16 LEFT REAR DOOR JAMB SWITCH

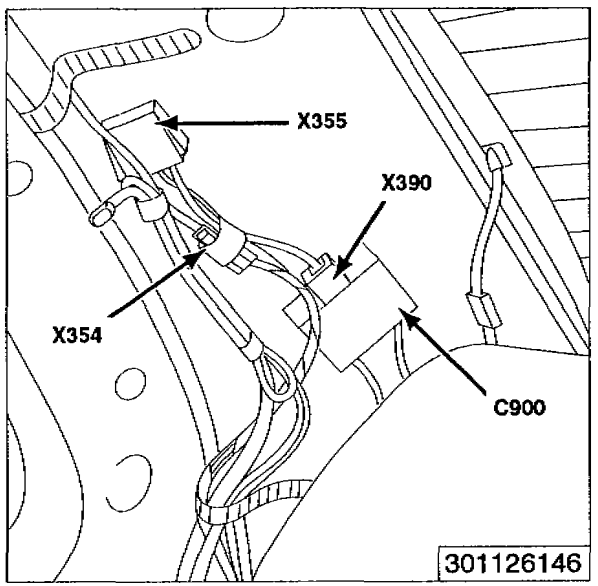


FIG. 2 - In upper RH C-pillar

- C900 SUPPRESSION FILTER
- X354 CONNECTOR (2-PINS, BLACK)
- X355 CONNECTOR (3-PINS, WHITE)
- X390 CONNECTOR (1-PINS, WHITE)

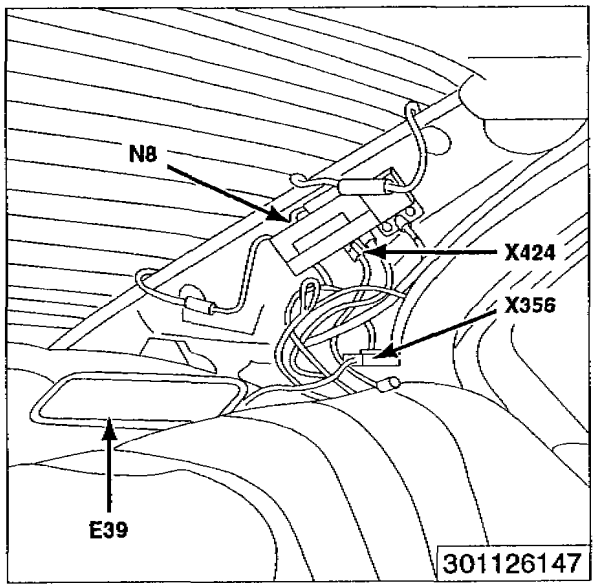


FIG. 3 - In upper LH C-pillar

- E39 LEFT REAR INTERIOR LIGHT
- N8 ANTENNA AMPLIFIER AM/FM
- X356 CONNECTOR (4-PINS, BLACK)
- X424 CONNECTOR (1-PINS, BROWN)

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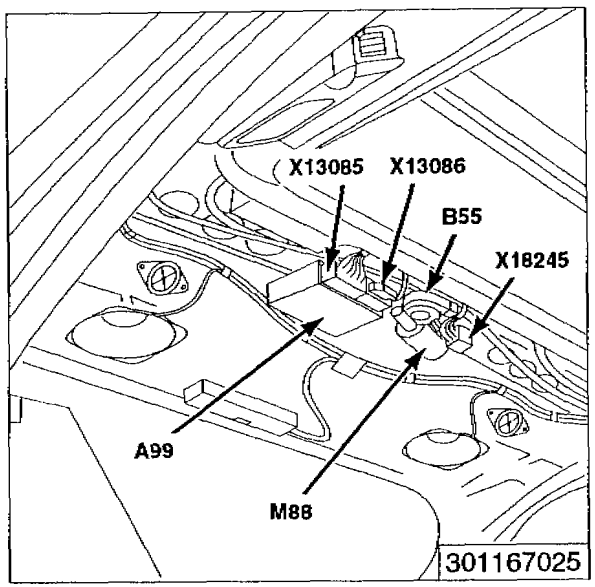


FIG. 1 - In roof panel Station Wagon only

A99	DOUBLE PANEL POWER SUN-ROOF CONTROL MODULE
B55	DOUBLE PANEL POWER SUN ROOF SENSOR II
M88	MOTOR DRIVE II DOUBLE PANEL POWER SUNROOF
X13085	CONNECTOR (10-PINS, BLACK)
X13086	CONNECTOR (15-PINS, BLACK)
X18245	CONNECTOR (8-PINS, BLACK)

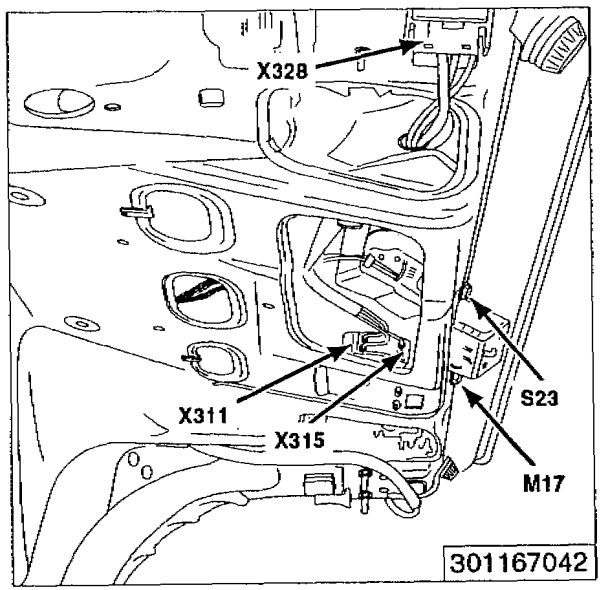


FIG. 2 - Underside of trunk lid

M17	TRUNK LOCK MOTOR
S23	TRUNK LOCK SWITCH (DWA)
X311	CONNECTOR (3-PINS, BLACK)
X315	CONNECTOR (2-PINS, WHITE)
X328	CONNECTOR (4-PINS, BLACK)

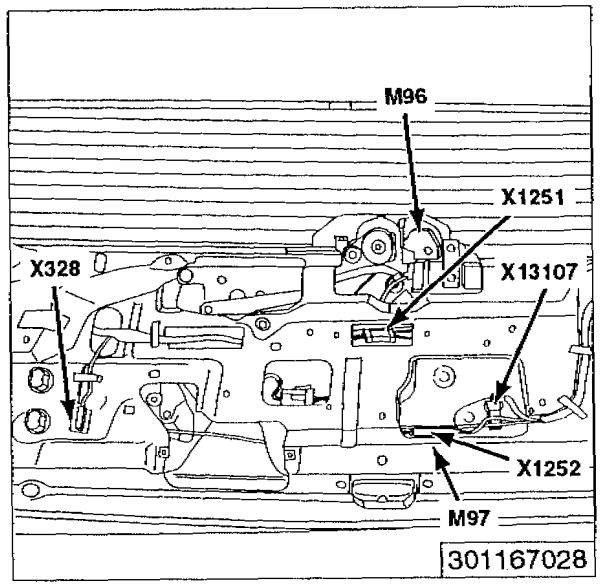


FIG. 3 - Underside of trunk lid Station Wagon only

M96	REAR WINDOW MOTOR
M97	LIFT GATE MOTOR
X328	CONNECTOR (4-PINS, BLACK)
X1251	CONNECTOR (2-PINS, BLACK)
X1252	CONNECTOR (2-PINS, BLACK)
X13107	CONNECTOR (4-PINS, WHITE)

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COMPONENT LOCATION VIEWS

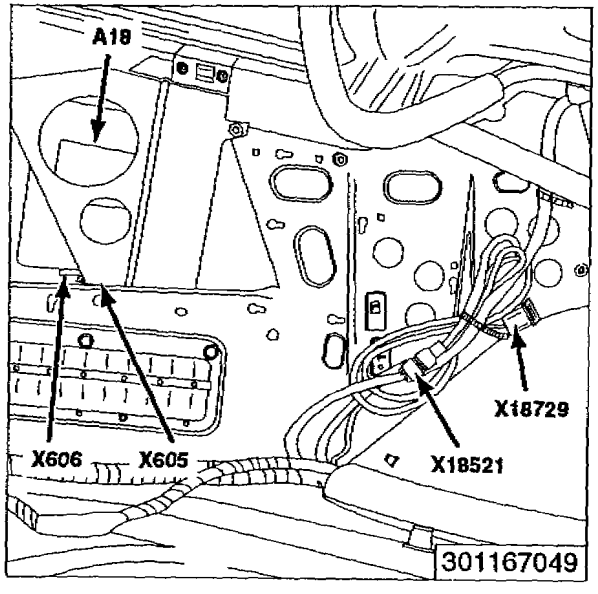


FIG 1 - In LH rear side of luggage compartment

A18	HIFI AMPLIFIER
X605	CONNECTOR (12-PINS, BLACK)
X606	CONNECTOR (12-PINS, WHITE)
X18521	CONNECTOR (10-PINS, BLACK)
X18729	CONNECTOR (3-PINS, WHITE)

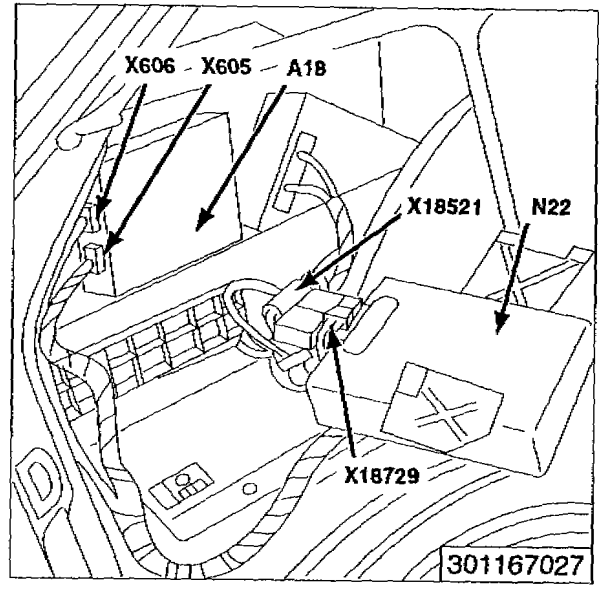


FIG 2 - In LH rear side of luggage compartment Station Wagon only

A18	HIFI AMPLIFIER
N22	CD CHANGER
X605	CONNECTOR (12-PINS, BLACK)
X606	CONNECTOR (12-PINS, WHITE)
X18521	CONNECTOR (10-PINS, BLACK)
X18729	CONNECTOR (3-PINS, WHITE)

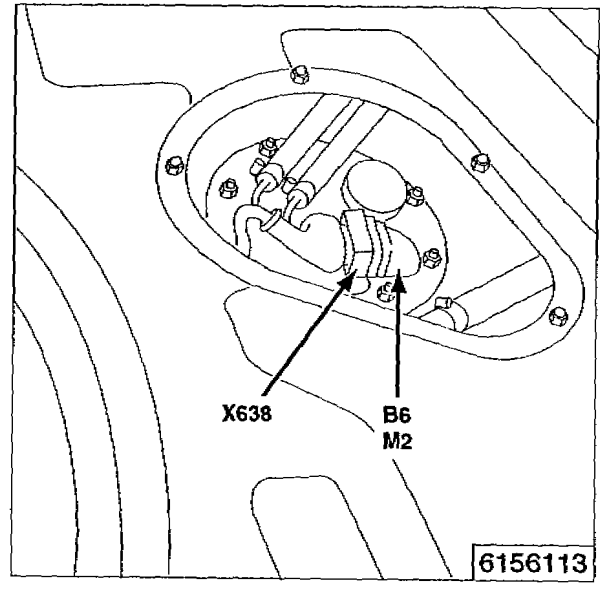


FIG 3 - RH side of luggage compartment

B6	FUEL LEVEL SENSOR
M2	FUEL PUMP
X638	CONNECTOR (6-PINS, BLACK)

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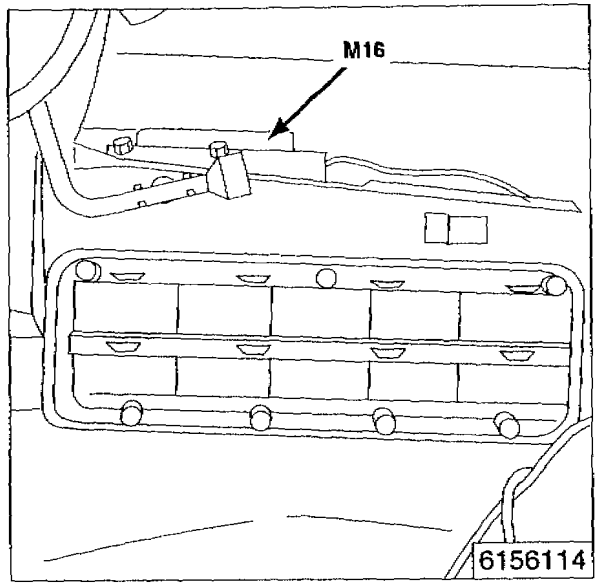


FIG 1 - RH side of luggage compartment

M16 GAS FILLER LOCK MOTOR

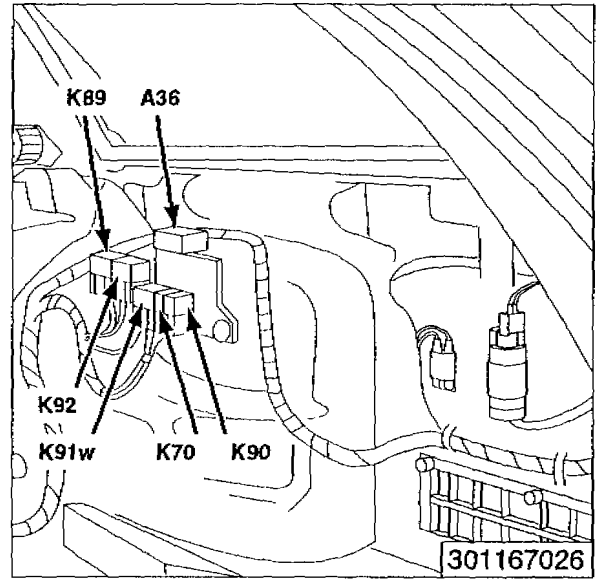


FIG 2 - RH side of luggage compartment

A36 REAR WIPER/WASHER INTERVAL CONTROL MODULE
K70 CENTRAL LOCKING TRUNK LID MOTOR RELAY (ZV)
K89 REAR WINDOW WASHER RELAY
K90 WINDOW MOTOR RELAY
K91w REAR WINDOW WIPER RELAY I
K92 REAR WINDOW WIPER RELAY II

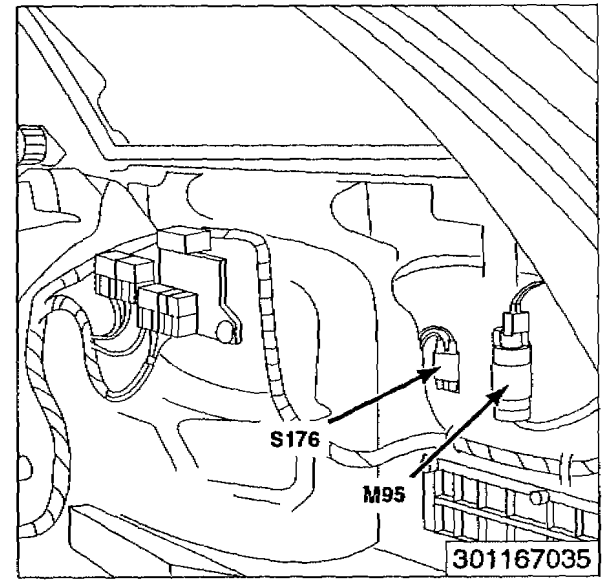


FIG 3 - RH side of luggage compartment

M95 REAR WINDOW WASHER PUMP
S176 REAR WIPER/WASHER FLUID LEVEL SWITCH

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SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X181-X189	FRONT	8000.0-03
X191-X193	FRONT	8000.0-03
X195-X201	FRONT	8000.0-03
X203-X207	FRONT	8000.0-03
X209	FRONT	8000.0-03
X210	FRONT	8000.0-03
X212	FRONT	8000.0-03
X213	FRONT	8000.0-03
X215	FRONT	8000.0-03
X217	FRONT	8000.0-03
X222	FRONT	8000.0-03
X223	FRONT	8000.0-03
X225	FRONT	8000.0-03
X228	FRONT	8000.0-03
X241	FRONT	8000.0-03
X245	FRONT	8000.0-03
X246	FRONT	8000.0-03
X276	FRONT	8000.0-03
X282	REAR	8000.0-05
X414	REAR	8000.0-05
X426	REAR	8000.0-05
X429	REAR	8000.0-05
X431	REAR	8000.0-05
X433	REAR	8000.0-05
X435-X437	REAR	8000.0-05
X441-X445	REAR	8000.0-05
X448-X451	REAR	8000.0-05
X455-X470	REAR	8000.0-05
X475	REAR	8000.0-05
X479	REAR	8000.0-05
X480	INSTRUMENT	8000.0-04
X481	REAR	8000.0-05
X488	REAR	8000.0-05
X489	REAR	8000.0-05
X557	INSTRUMENT	8000.0-04
X559	INSTRUMENT	8000.0-04
X561-X564	INSTRUMENT	8000.0-04
X571-X573	INSTRUMENT	8000.0-04
X575-X577	INSTRUMENT	8000.0-04
X579-X584	INSTRUMENT	8000.0-04
X833	REAR	8000.0-05
X888	INSTRUMENT	8000.0-04
X906	IHKR/F3	8000.0-06
X911	REAR	8000.0-05
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X1036	FRONT	8000.0-03
X1043	FRONT	8000.0-03
X1047	FRONT	8000.0-03
X1152	FRONT	8000.0-03
X1092-X1095	FRONT	8000.0-03
X1149	FRONT	8000.0-03

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SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X1159	FRONT	8000.0-03
X1159	INSTRUMENT	8000.0-04
X1194	FRONT	8000.0-03
X1218	INSTRUMENT	8000.0-04
X1224	REAR	8000.0-05
X1225	INSTRUMENT	8000.0-04
X1226	REAR	8000.0-05
X1228	REAR	8000.0-05
X1232	INSTRUMENT	8000.0-04
X1256-X1258	REAR	8000.0-05
X1294	REAR	8000.0-05
X1362	REAR	8000.0-05
X1366	REAR	8000.0-05
X1367	REAR	8000.0-05
X1373	REAR	8000.0-05
X1394	FRONT	8000.0-03
X1399	FRONT	8000.0-03
X1410	INSTRUMENT	8000.0-04
X1416-X1419	INSTRUMENT	8000.0-04
X1421-X1423	INSTRUMENT	8000.0-04
X1428	INSTRUMENT	8000.0-04
X1438	INSTRUMENT	8000.0-04
X1471-X1473	INSTRUMENT	8000.0-04
X1479	INSTRUMENT	8000.0-04
X6410	M30 ENGINE	8000.0-07
X6418-X6420	M50 ENGINE	8000.0-08
X6450	M50 ENGINE	8000.0-08
X6470-X6472	M30 ENGINE	8000.0-07
X6473	M50 ENGINE	8000.0-08
X6474	M30 ENGINE	8000.0-07
X6475	M50 ENGINE	8000.0-08
X6490	M30 ENGINE	8000.0-07
X6491	M30 ENGINE	8000.0-07
X6492	M50 ENGINE	8000.0-08
X6800	M30 ENGINE	8000.0-07
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X6830	M50 ENGINE	8000.0-08
X6831	M50 ENGINE	8000.0-08
X6832	M30 ENGINE	8000.0-07
X6835	M50 ENGINE	8000.0-08
X6850	M30 ENGINE	8000.0-07
X6855	M30 ENGINE	8000.0-07
X6860	M50 ENGINE	8000.0-08
X6861	M30 ENGINE	8000.0-07
X6863	M50 ENGINE	8000.0-08
X6864	M30 ENGINE	8000.0-07
X6866	M50 ENGINE	8000.0-08
X6867	M30 ENGINE	8000.0-07
X6871	M30 ENGINE	8000.0-07

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SPLICE LOCATION VIEWS

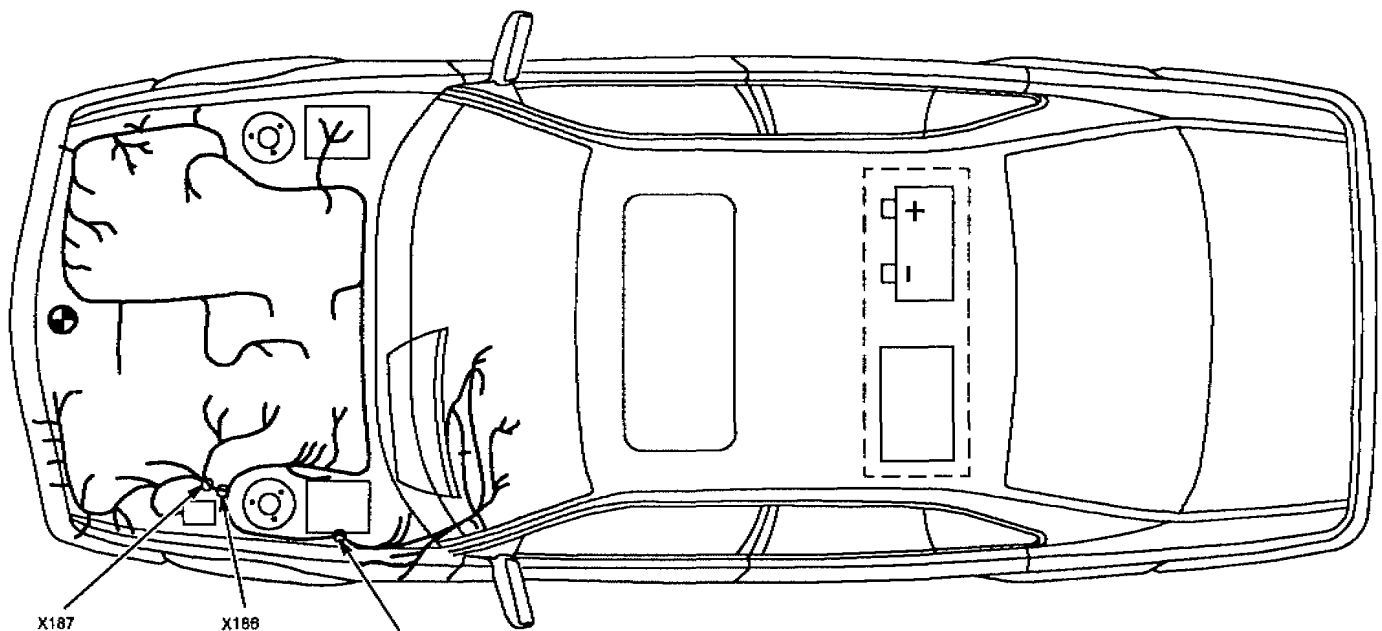
SPLICE LOCATION INDEX

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X6884	M30 ENGINE	8000.0-07
X6900-X6906	M50 ENGINE	8000.0-08
X8004	M30 ENGINE	8000.0-07
X8004-X8557	M50 ENGINE	8000.0-08
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X10027	FRONT	8000.0-03
X10060	FRONT	8000.0-03
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X10091	FRONT	8000.0-03
X10093	FRONT	8000.0-03
X10197	INSTRUMENT	8000.0-04
X10198	INSTRUMENT	8000.0-04
X11247	FRONT	8000.0-03
X11248	FRONT	8000.0-03
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X11251	FRONT	8000.0-03
X11252	FRONT	8000.0-03
X11262	FRONT	8000.0-03
X13035	REAR	8000.0-05
X13074	REAR	8000.0-05
X13104	REAR	8000.0-05
X13113-X13118	REAR	8000.0-05
X13240	REAR	8000.0-05
X13241	REAR	8000.0-05
X13244-X13246	REAR	8000.0-05
X13248-X13250	REAR	8000.0-05
X13259	REAR	8000.0-05
X13264	REAR	8000.0-05
X18158-X18163	IHKR/F3	8000.0-06

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SPLICE LOCATION VIEWS

FRONT HARNESS

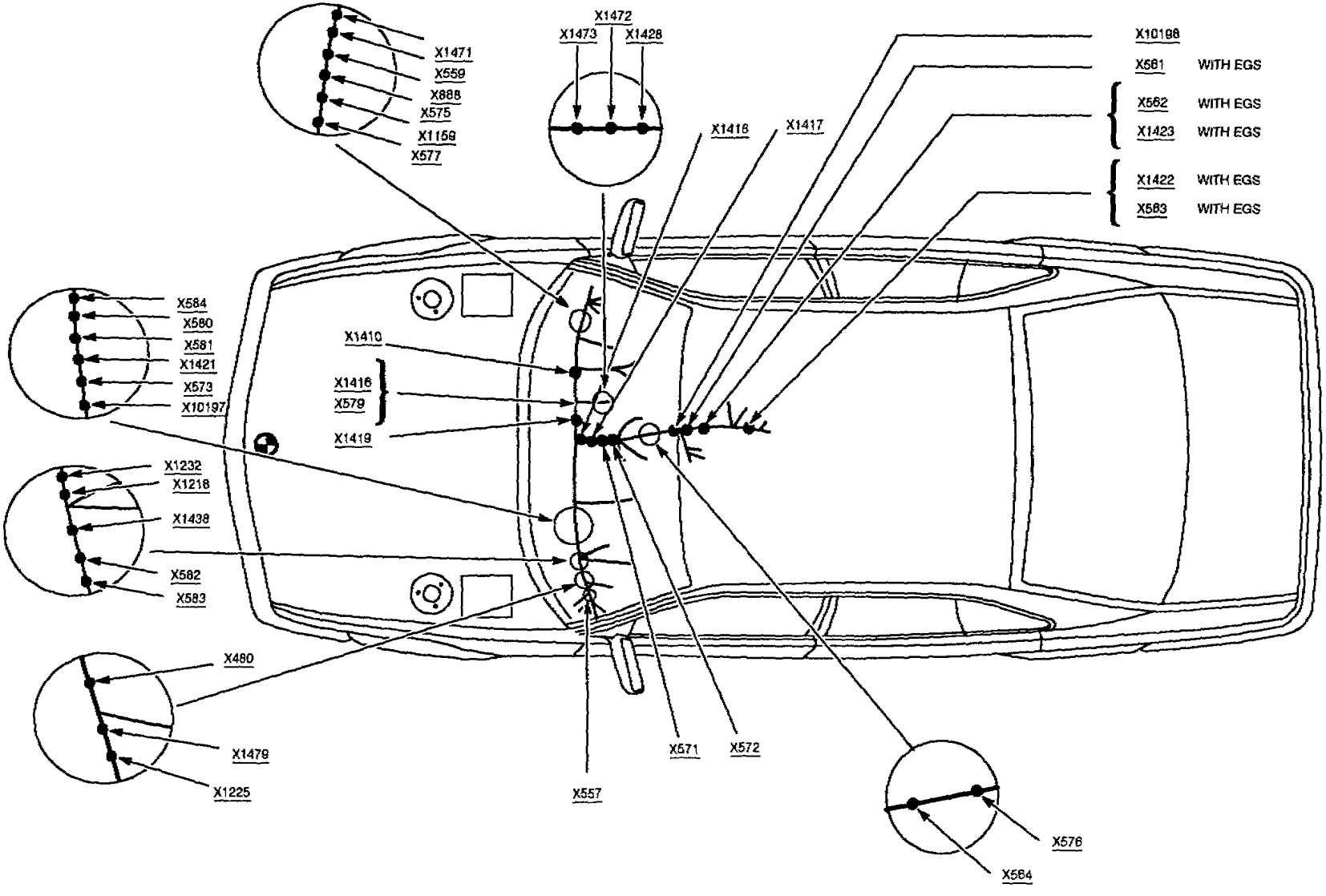


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X162	X198	X213	X1022	X1152	X10093
X163	X199	X215	X1023	X1159	X11247
X164	X200	X222	X1029	X1194	X11248
X165	X201	X223	X1033	X1394	X11249
X166	X203	X225	X1036	X1399	X11251
X189	X204	X228	X1043	X10021	X11252
X191	X205	X241	X1047	X10027	X11262
X192	X206	X245	X1092	X10060	
X193	X207	X246	X1093	X10080	
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X196	X210	X994	X1095	X10090	

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SPLICE LOCATION VIEWS

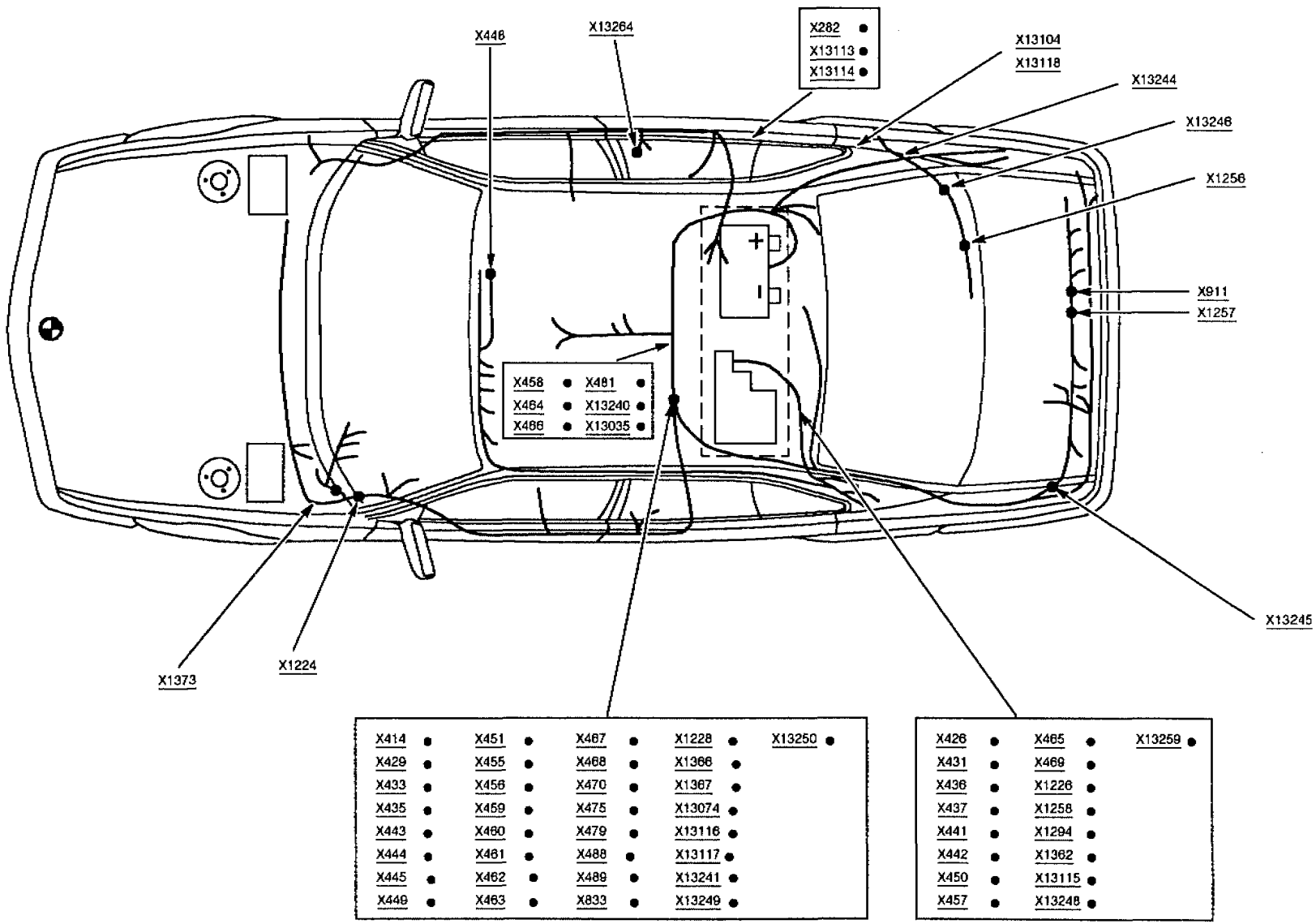
INSTRUMENT HARNESS



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SPLICE LOCATION VIEWS

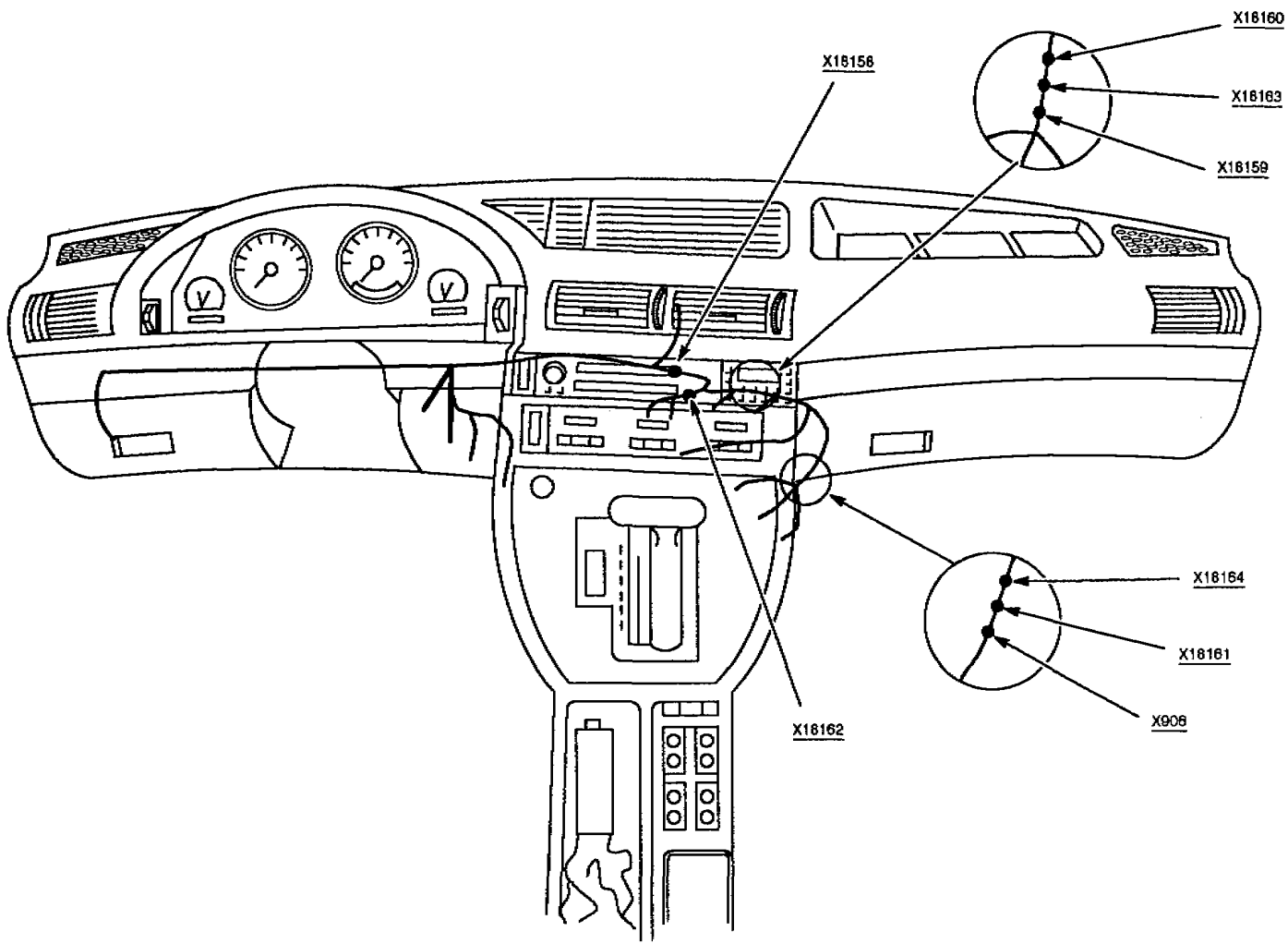
REAR HARNESS



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SPLICE LOCATION VIEWS

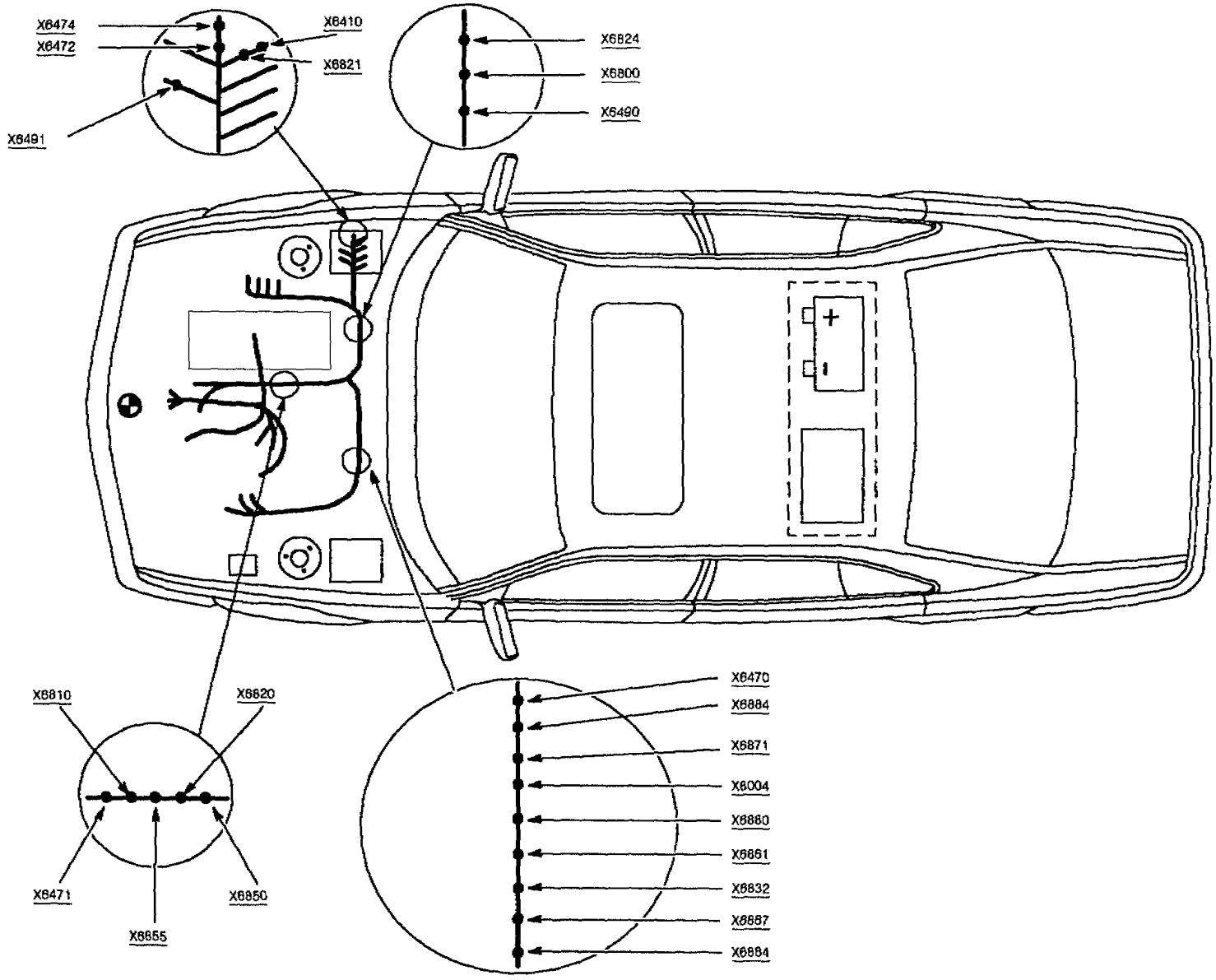
IHKR/F3



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SPLICE LOCATION VIEWS

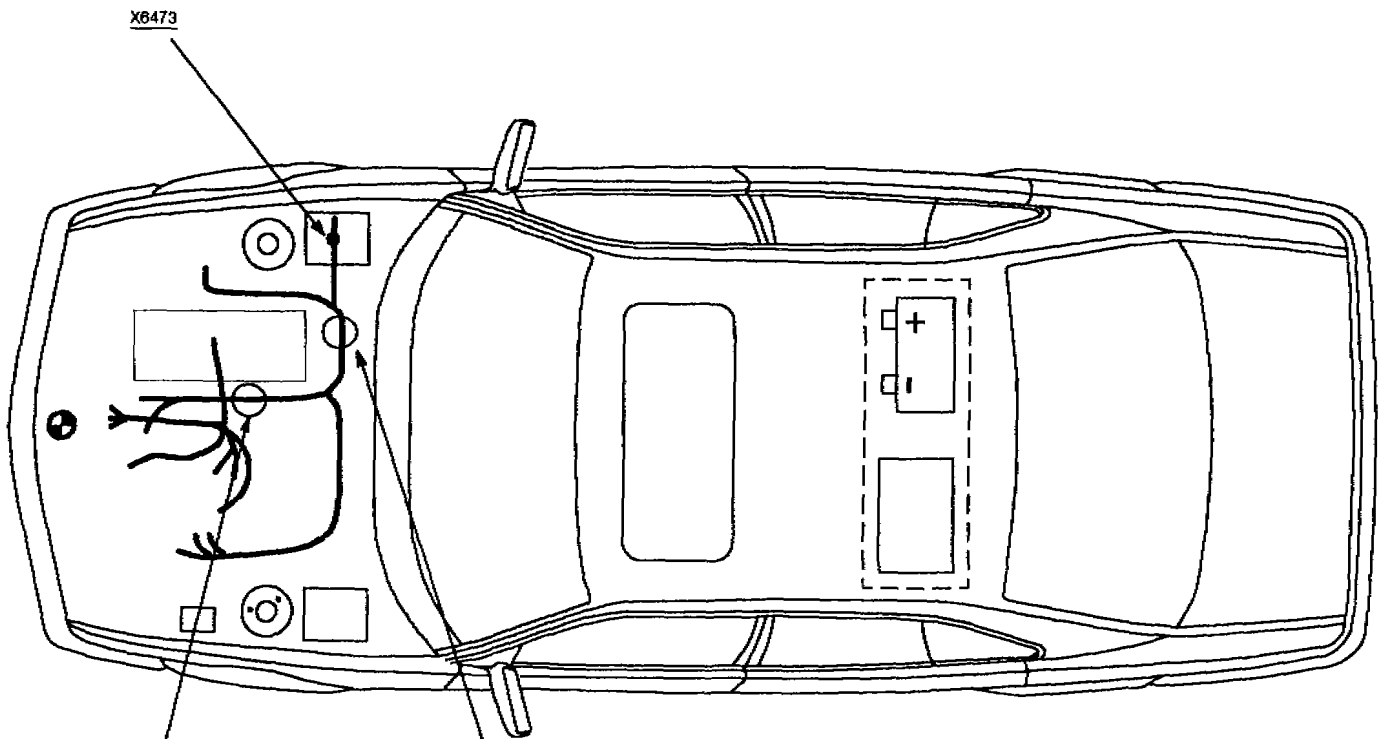
M30 ENGINE HARNESS



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SPLICE LOCATION VIEWS

M50 ENGINE HARNESS



X6492	X6902
X6820	X6903
X6831	X6904
X6900	X6905
X6901	X6906

X6418	X6824	X8008
X6419	X6830	X8009
X6420	X6835	X8012
X6450	X6860	X8015
X6451	X6863	X8042
X6475	X6866	X8071
X6810	X6880	X8072
X6819	X8004	X8556
X6823	X8007	X8557

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CONNECTOR VIEWS

FIG 1

B550001 00

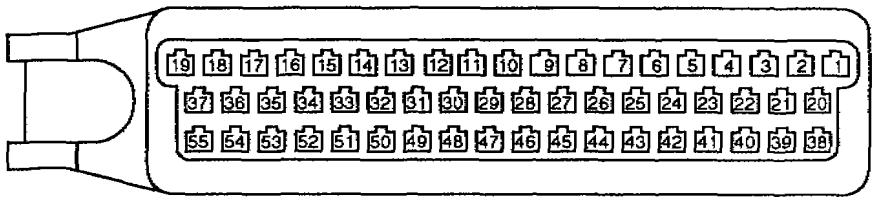


FIG 2

B350001 00

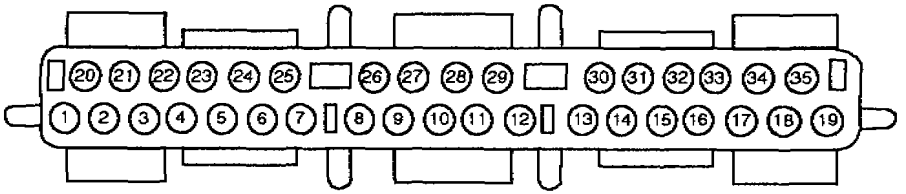


FIG 3

B350002 00

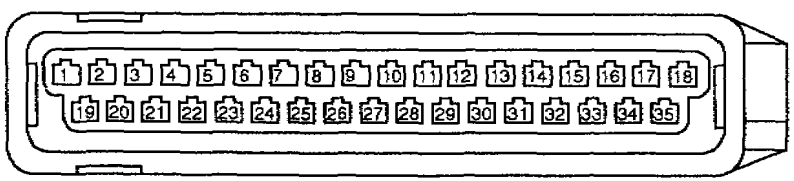
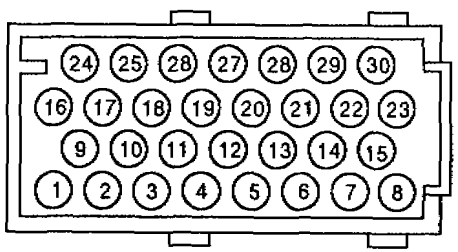


FIG 4

B300001 00



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CONNECTOR VIEWS

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FIG. 1

B260002.00

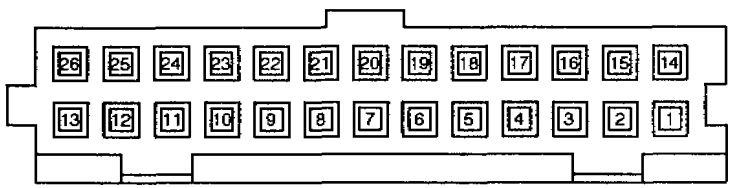


FIG. 2

B120015

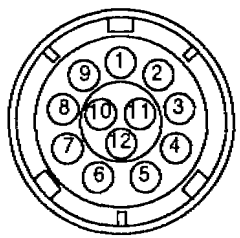


FIG. 3

B210001.00

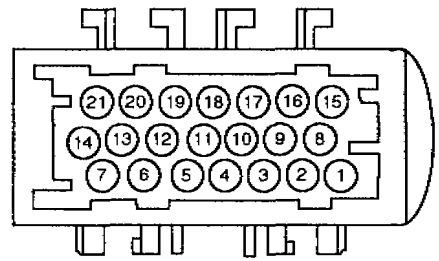


FIG. 4

B240001.00

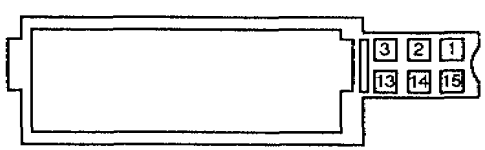


FIG. 5

B080003.00

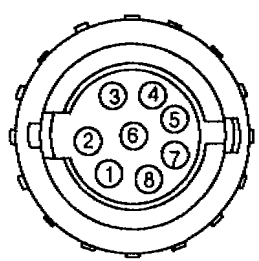
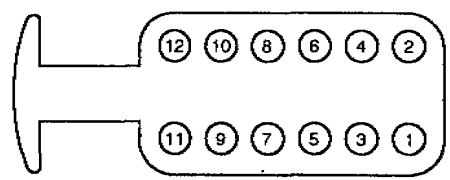


FIG. 6

B120013.00



CONNECTOR VIEWS

FIG. 1

B120002.02

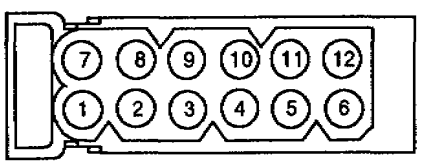


FIG. 2

B060040.00

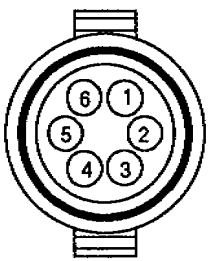


FIG. 3

B090001.00

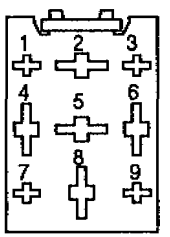


FIG. 4

B050005.00

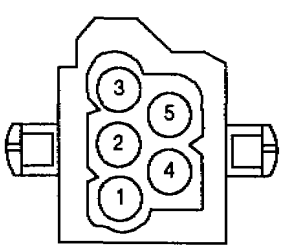


FIG. 5

B030006.00

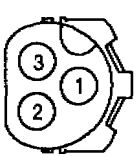
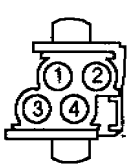


FIG. 6

B040003.00



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CONNECTOR VIEWS

FIG. 1

B080002.00

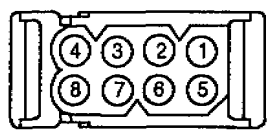


FIG. 2

B050006.00

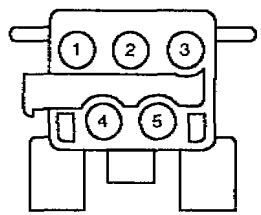


FIG. 3

B030001.00

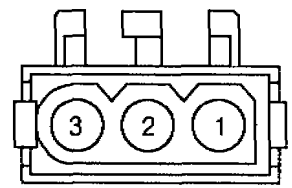


FIG. 4

B250001.00

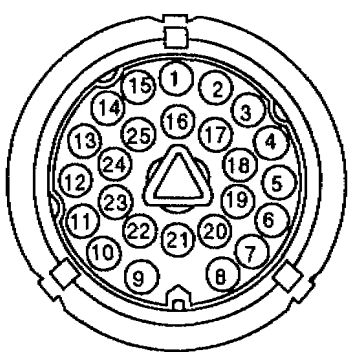


FIG. 5

B030015.10

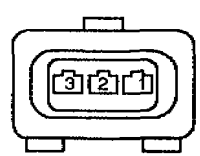
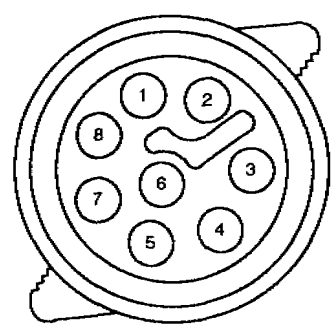


FIG. 6

B080009.00



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CONNECTOR VIEWS

FIG. 1

B060017.00

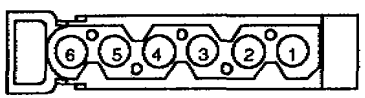


FIG. 2

B170001.00

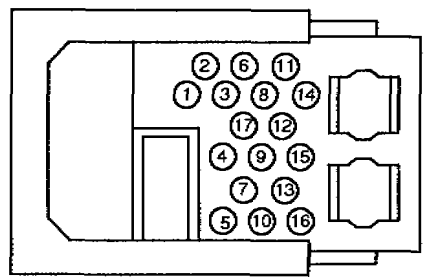


FIG. 3

B030013.00

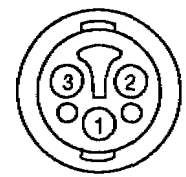


FIG. 4

B030005.00

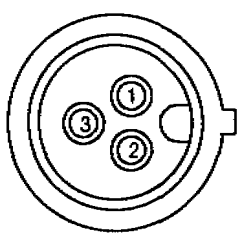


FIG. 5

B030012.00

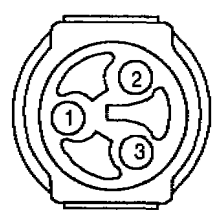
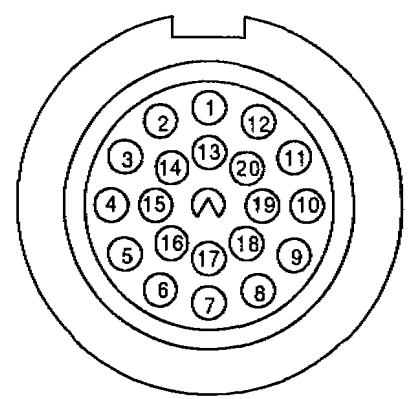


FIG. 6

B200003.01



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CONNECTOR VIEWS

FIG. 1

B040015.00

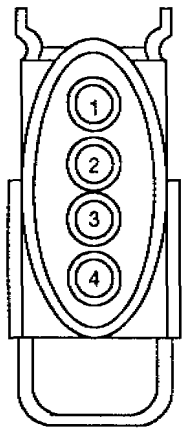


FIG. 2

B030003.04

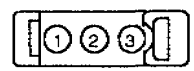


FIG. 3

B0300010.02

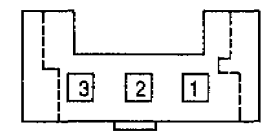


FIG. 4

B060002.00

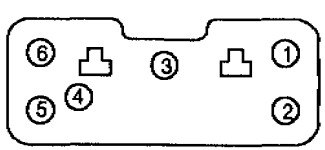


FIG. 5

B060002.00

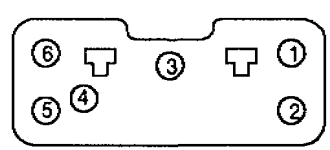
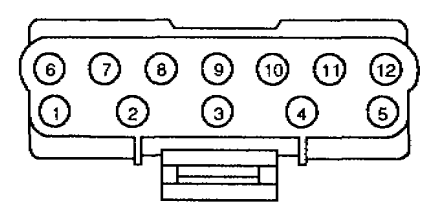


FIG. 6

B120006.00



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CONNECTOR VIEWS

FIG. 1

B060006.00

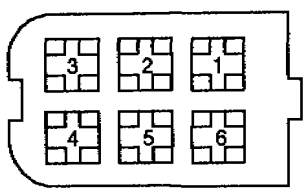


FIG. 2

B050003.00

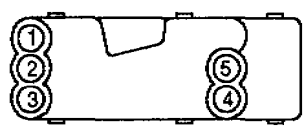


FIG. 3

B040004.00



FIG. 4

B120004.01

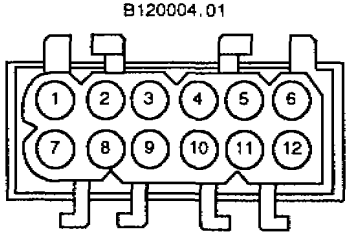


FIG. 5

B040002.00

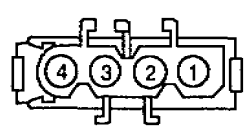
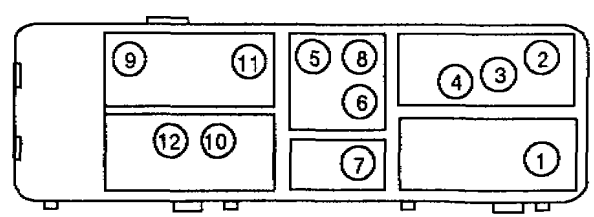


FIG. 6

B120008.00



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CONNECTOR VIEWS

FIG. 1

B030030.00

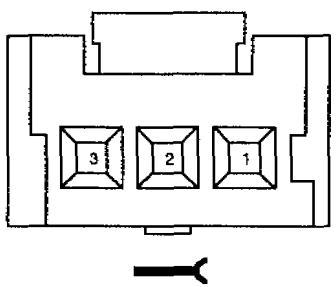


FIG. 2

B120002.03

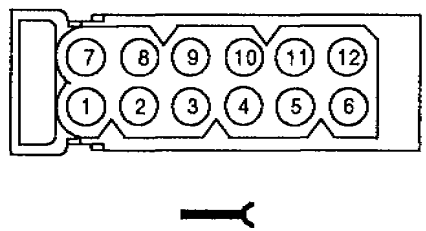


FIG. 3

B120004.05

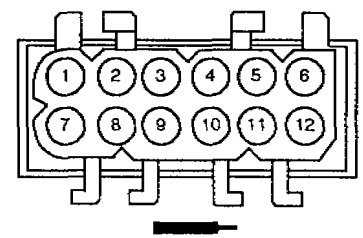


FIG. 4

B060013.00

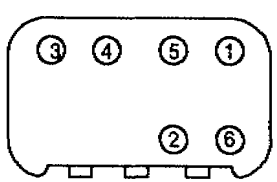


FIG. 5

B030009.00

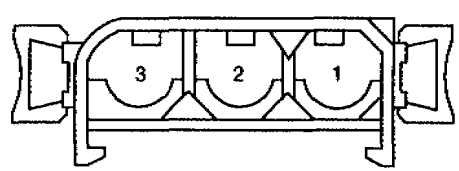
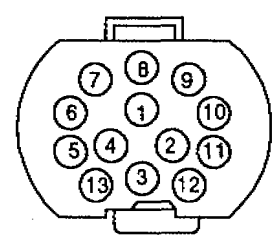


FIG. 6

B130002.01



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CONNECTOR VIEWS

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FIG. 1

B210002.00

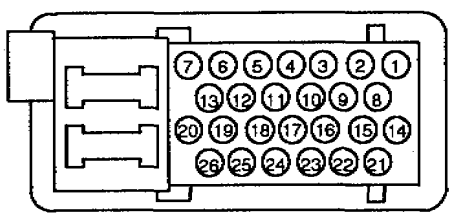


FIG. 2

B120011.00

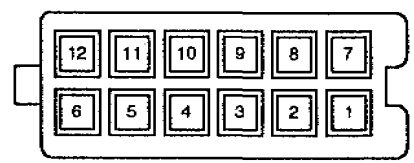


FIG. 3

B120011.00

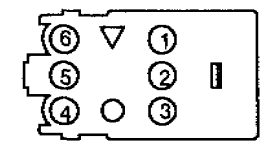


FIG. 4

B200001.00

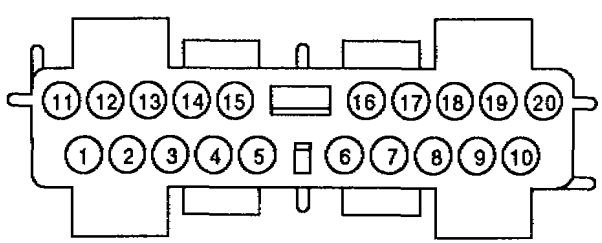


FIG. 5

B120005.00

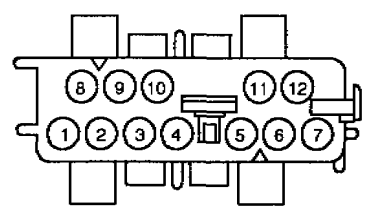
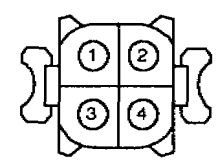


FIG. 6

B040010.00



CONNECTOR VIEWS

FIG. 1

B100008.00

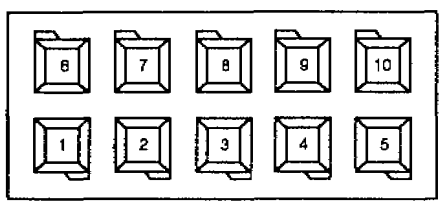


FIG. 2

B060023.00

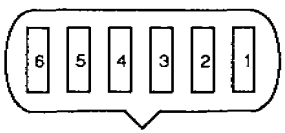


FIG. 3

B050002.00

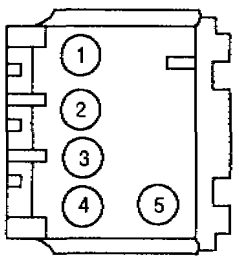


FIG. 4

B060009.00

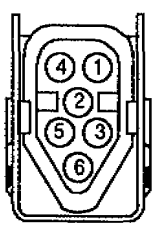


FIG. 5

B030022.00

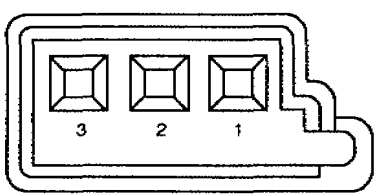
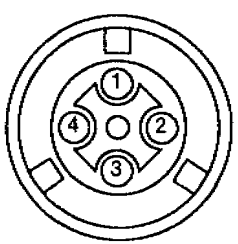


FIG. 6

B040016.00



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CONNECTOR VIEWS

FIG. 1

B060010.01

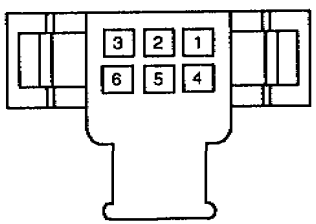


FIG. 2

B040013

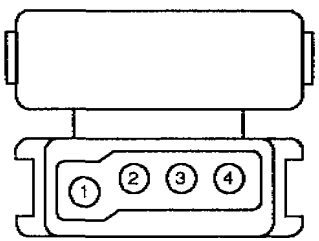


FIG. 3

B060035.00

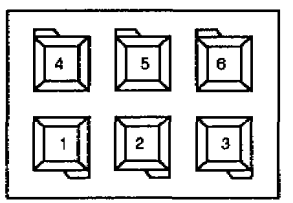


FIG. 4

B260005.00

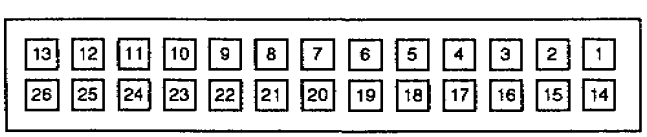
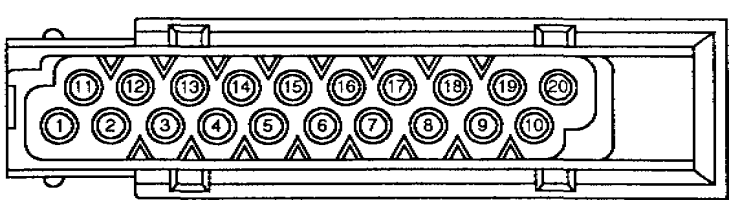


FIG. 5

B200007.00



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FIG. 1

B140002.00

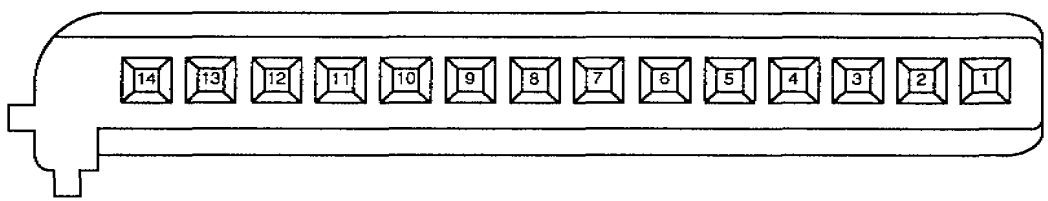


FIG. 2

B080005.00

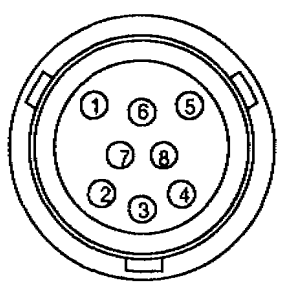
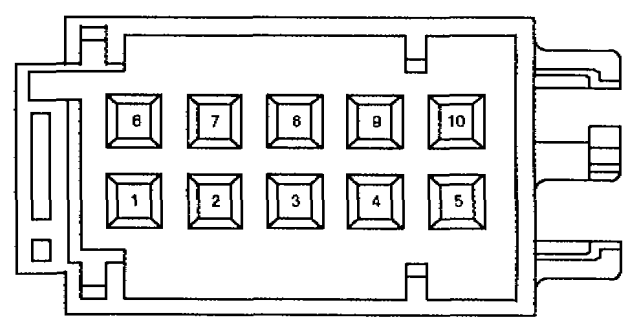


FIG. 3

B100009.00



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FIG. 1

B880001.00

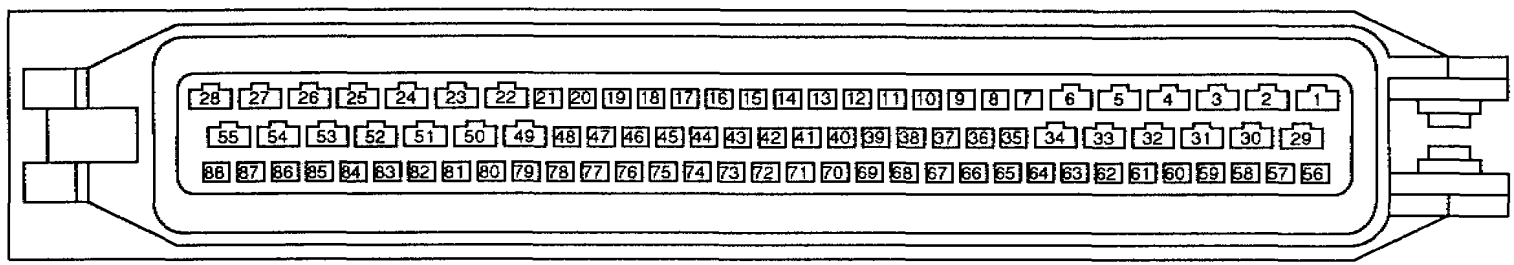


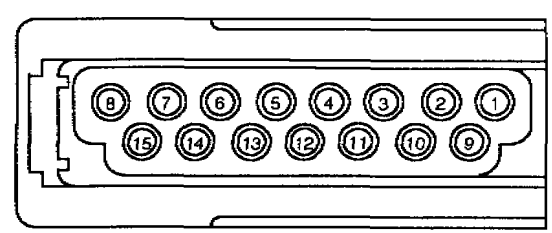
FIG. 2

B050006.00



FIG. 3

B150003.00



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CONNECTOR VIEWS

FIG. 1

B080000.00

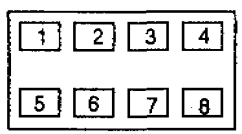


FIG. 2

B080001.00

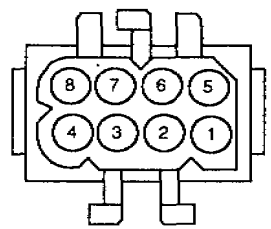


FIG. 3

B180000.00

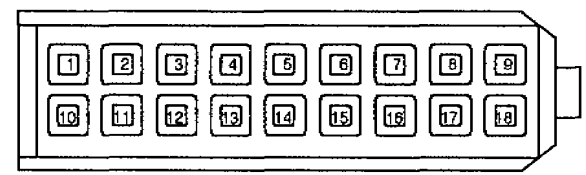


FIG. 4

B070005.00

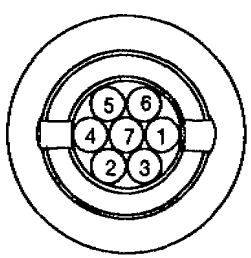


FIG. 5

B040018.01

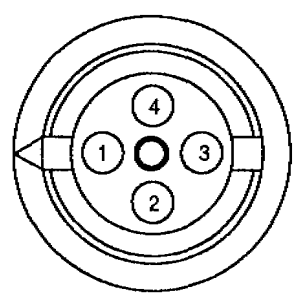
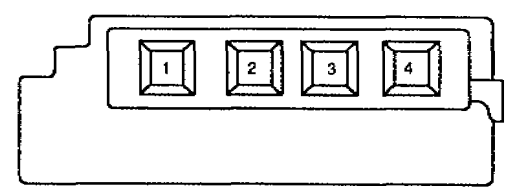


FIG. 6

B040020.00



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CONNECTOR VIEWS

FIG. 1

B060035.02

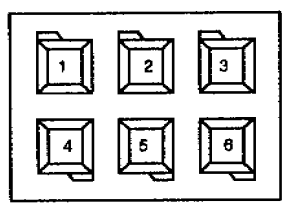


FIG. 2

B060035.01

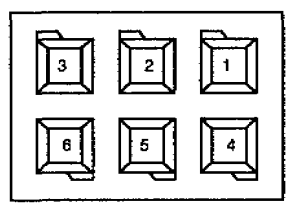


FIG. 3

B120003.01

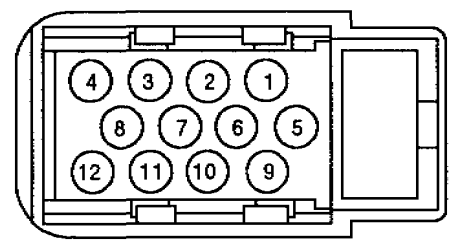


FIG. 4

B300002.00

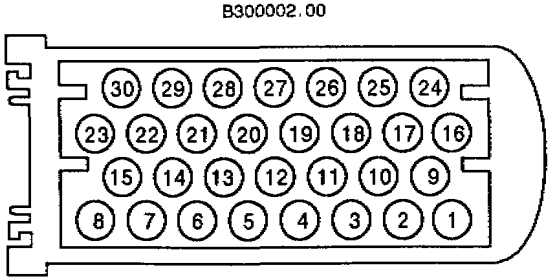
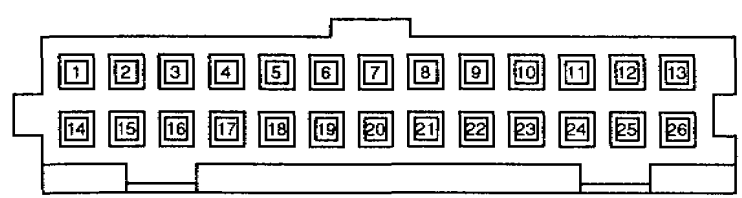


FIG. 5

B260002.00



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CONNECTOR VIEWS

FIG. 1

B120014

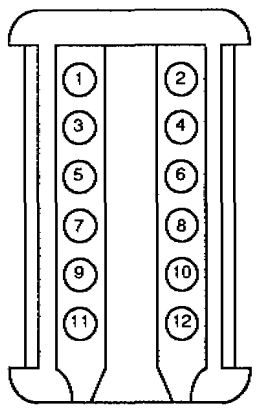


FIG. 2

B100004.00

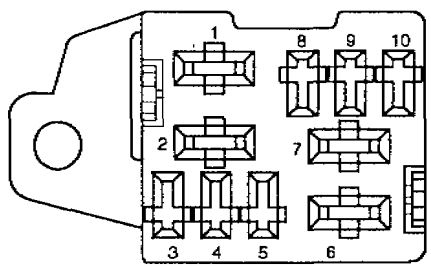


FIG. 3

B060038.00

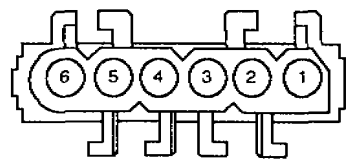


FIG. 4

B030015.08

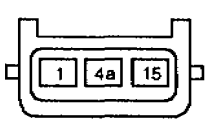


FIG. 5

B060019.00

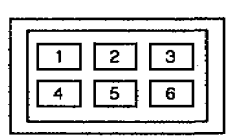
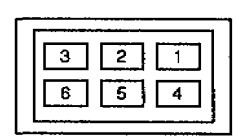


FIG. 6

B060019.03



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CONNECTOR VIEWS

FIG. 1

B090007.00

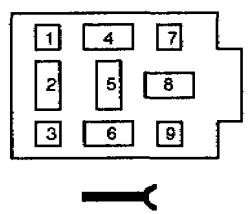


FIG. 2

B040022.00

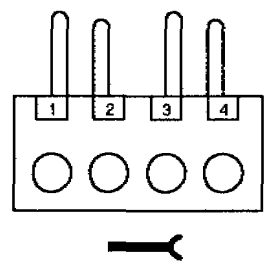


FIG. 3

B050013.00

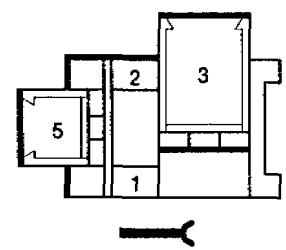


FIG. 4

B480000.00

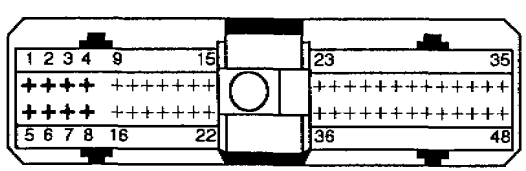


FIG. 5

B060005.07

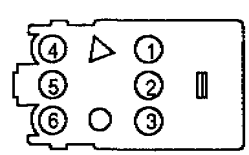
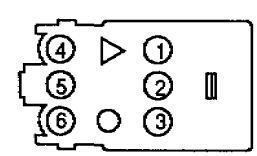


FIG. 6

B060005.08



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CONNECTOR VIEWS

FIG. 1

B060005.09

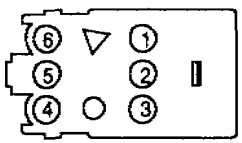


FIG. 2

B060005.10

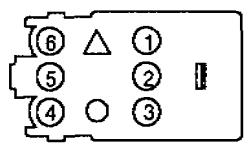


FIG. 3

B070007.00

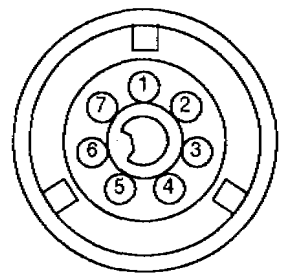


FIG. 4

B260001.00

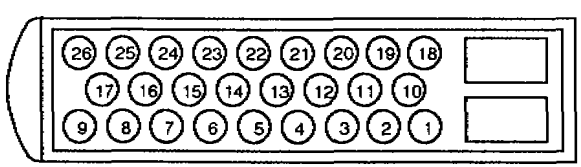
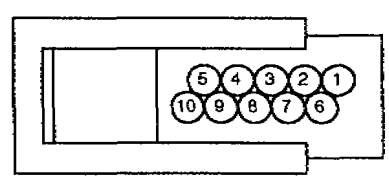


FIG. 5

B100007.00



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CONNECTOR VIEWS

FIG. 1

B030003.00

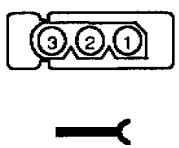


FIG. 2

B060013.00

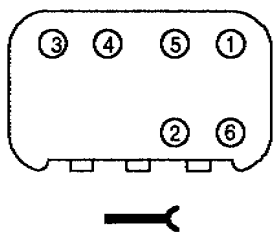


FIG. 3

B080006.00

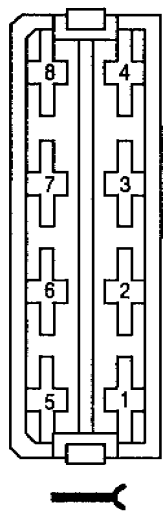
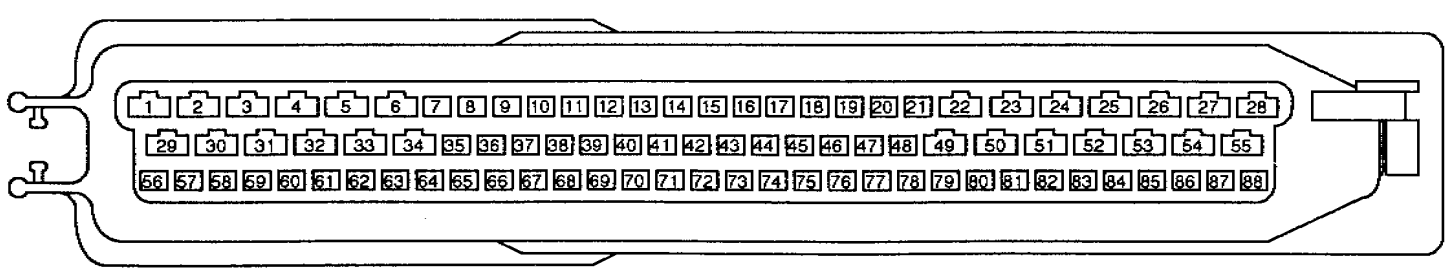


FIG. 4

B880002.01



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CONNECTOR VIEWS

FIG. 1

B030004.04

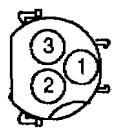


FIG. 2

B060030.00

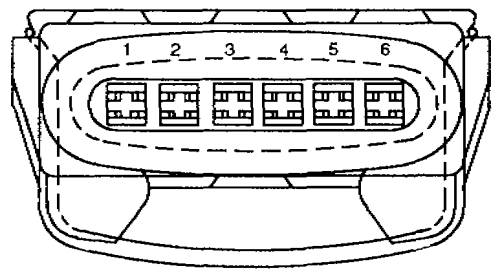


FIG. 3

B100013.00

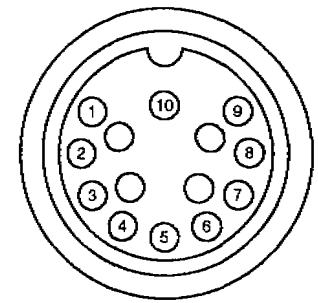
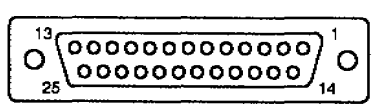


FIG. 4

B250003.00



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