

1994

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

Electrical Troubleshooting Manual

Vehicles Produced 9/93 to 8/94



ELECTRICAL TROUBLESHOOTING MANUAL

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

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MODEL YEAR 1994

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TRUNK LIGHT ASSEMBLY, LEFT, E46	6581.2-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47	6312.0-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47	6313.0-02
TRUNK LIGHT ASSEMBLY, RIGHT, E47	6314.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47	6322.0-00
TRUNK LIGHT ASSEMBLY, RIGHT, E47	6325.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47	6581.2-04
TRUNK LID MICRO SWITCH, S213	5430.0-02
TRUNK LID RELAY, K117	5126.0-01
TRUNK LIGHT SWITCH, S61y	6320.0-00
TRUNK LOCK MOTOR, M17	5126.2-01
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TURN LIGHT, LEFT REAR, H6	6313.0-02
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Schematics

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

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

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead that is only a few cm long. To ensure clear arrangement, all connectors, line branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells 0670.3 **Fuse Details** and 0670.4 **Ground Distribution** where all lines are illustrated with all plug connections, line branches and connected components.

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

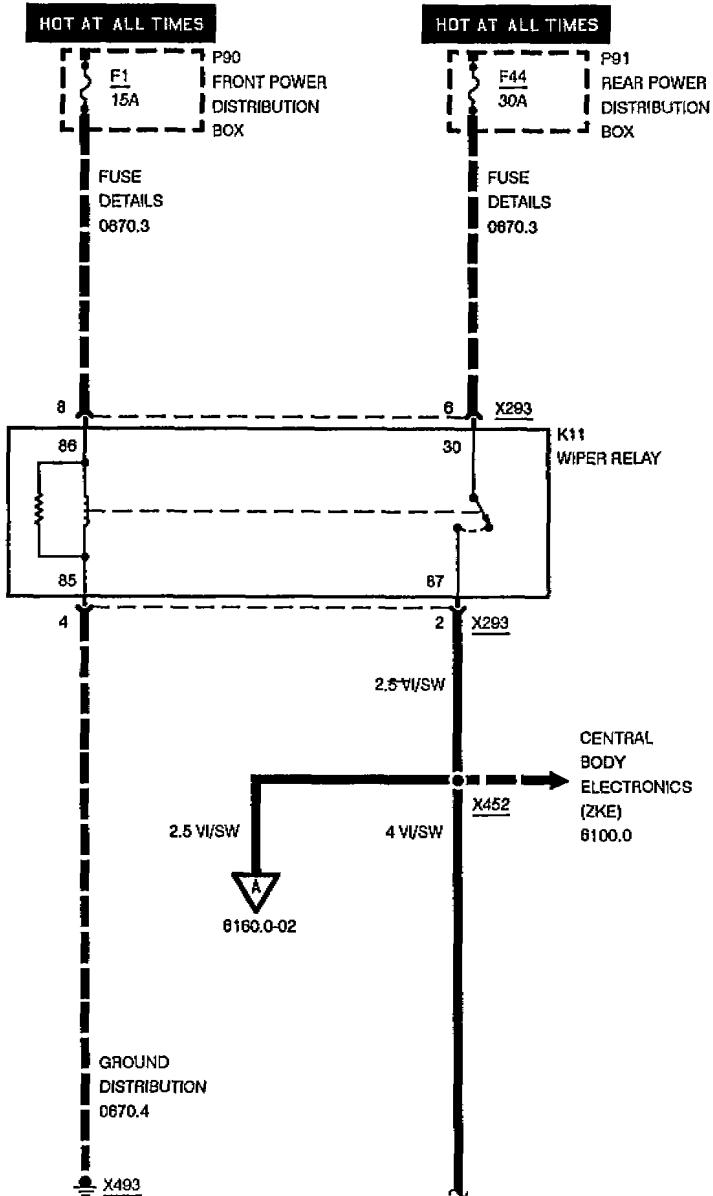
In cell 7000.0 **Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell 7100.0 **Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts. In cell 8500.0 **Connector Views** diagrams of connectors with more than 2 pins are illustrated.

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

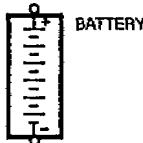
Example

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

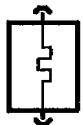


General Conventions

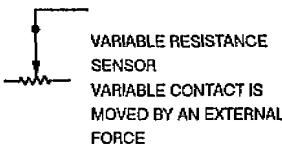
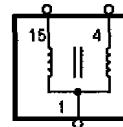
1. Switches and relays are always shown in rest position (e.g. K11).
2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).
3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).
4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.
5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell **0670.3 Fuse Details** at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.
6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell **6100.0 Central Body Electronics (ZKE)**. An interrupted line with an arrow indicates that only this one wire leads to another circuit.
7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell **0670.4 Ground Distribution** at ground X493 for the complete line progression with all plug connections, line branches, wire colors and cross sections.
8. The interrupted line from splice X452 with an A in the open arrow is continued on page 6160.0-02. Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.



BATTERY



HEATING ELEMENT

VARIABLE RESISTANCE
SENSOR
VARIABLE CONTACT IS
MOVED BY AN EXTERNAL
FORCE

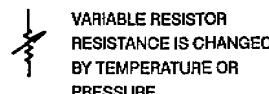
IGNITION COIL



FUSE DETAILS



LOUDSPEAKER OR HORN

VARIABLE RESISTOR
RESISTANCE IS CHANGED
BY TEMPERATURE OR
PRESSURE

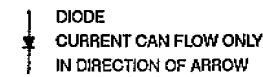
CONTROL/POWER ELECTRONICS



FUSIBLE LINK



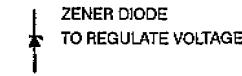
LIGHT

DIODE
CURRENT CAN FLOW ONLY
IN DIRECTION OF ARROW

RADIO



THERMO SWITCH

PERMANENT MAGNET MOTOR
ONE SPEEDZENER DIODE
TO REGULATE VOLTAGE

TRANSISTORIZED SWITCH



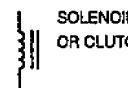
SOLENOID

PERMANENT MAGNET MOTOR
TWO SPEEDS

LIGHT EMITTING DIODE



INDUCTIVE SENSOR

SOLENOID CONTROLLED VALVE
OR CLUTCH SOLENOID

KNOCK SENSOR



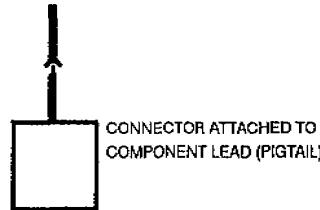
OXYGEN SENSOR



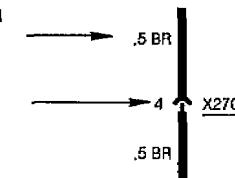
VEHICLE SPEED SENSOR

SYMBOLS

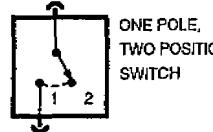
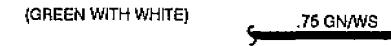
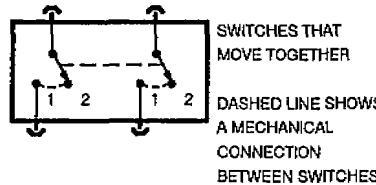
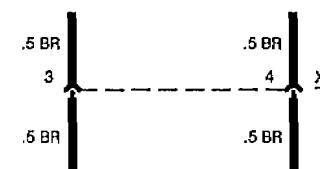
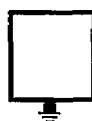
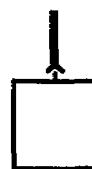
ENTIRE COMPONENT SHOWN

CONNECTOR ATTACHED TO
COMPONENT LEAD (PIGTAIL)WIRE INSULATION
IS ONE COLOR

PIN NUMBER

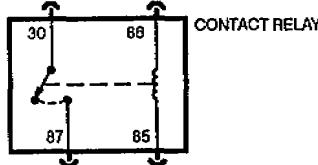
CONNECTOR REFERENCE
NUMBER FOR COMPONENT
LOCATION CHART

PART OF COMPONENT SHOWN

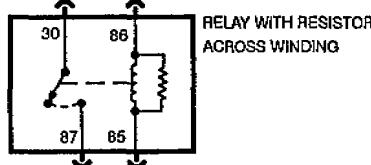
ONE POLE,
TWO POSITION
SWITCHWIRE INSULATION
IS ONE COLOR WITH
ANOTHER COLOR
STRIPE
(GREEN WITH WHITE)A WAVY LINE MEANS WIRE
IS CONTINUEDCOMPONENT WITH SCREW
TERMINALSSWITCHES THAT
MOVE TOGETHER
DASHED LINE SHOWS
A MECHANICAL
CONNECTION
BETWEEN SWITCHESTWO CONNECTIONS
(PINS) IN THE SAME
CONNECTORCOMPONENT CASE ATTACHED
DIRECTLY TO METAL PART
OF CAR (GROUNDED)CONNECTOR ATTACHED TO
COMPONENT

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

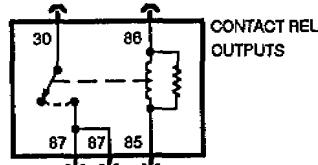
WIRE SIZE IN
MM SQUAREDWIRE ATTACHED TO
METAL PART OF CAR
(GROUNDED)GROUND NUMBERED
FOR REFERENCE ON
COMPONENT LOCATION
CHART



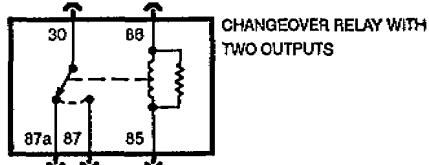
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

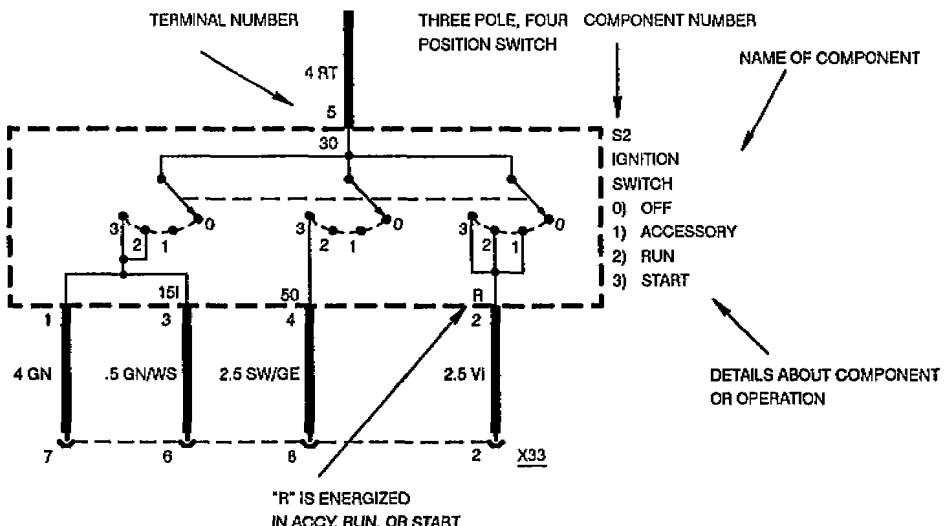


1 CONTACT RELAY WITH TWO OUTPUTS



CHANGEOVER RELAY WITH TWO OUTPUTS

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

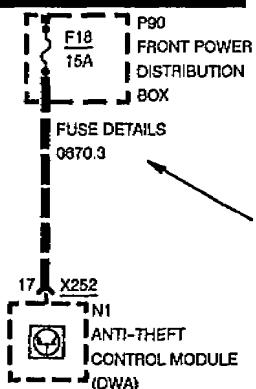


TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN AC RUN OR START GROUND
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	

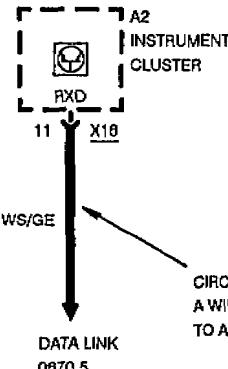
HOT AT ALL TIMES	POWER STATUS	DESCRIPTION
	HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES	HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
	HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

SYMBOLS

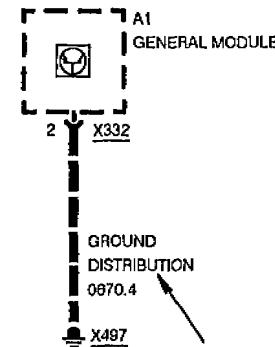
HOT IN ACCY, RUN AND START



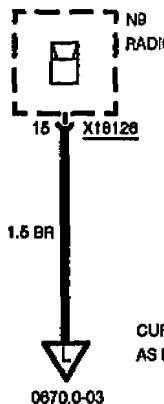
THE COMPLETE WIRE
PROGRESSION AND FURTHER
CIRCUITS CONNECTED TO
FUSE 18 ARE SHOWN IN CELL
"0670.3 FUSE DETAILS" AT
FUSE 18



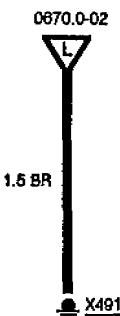
CIRCUIT REFERENCE—
A WIRE WHICH CONNECTS
TO ANOTHER CIRCUIT



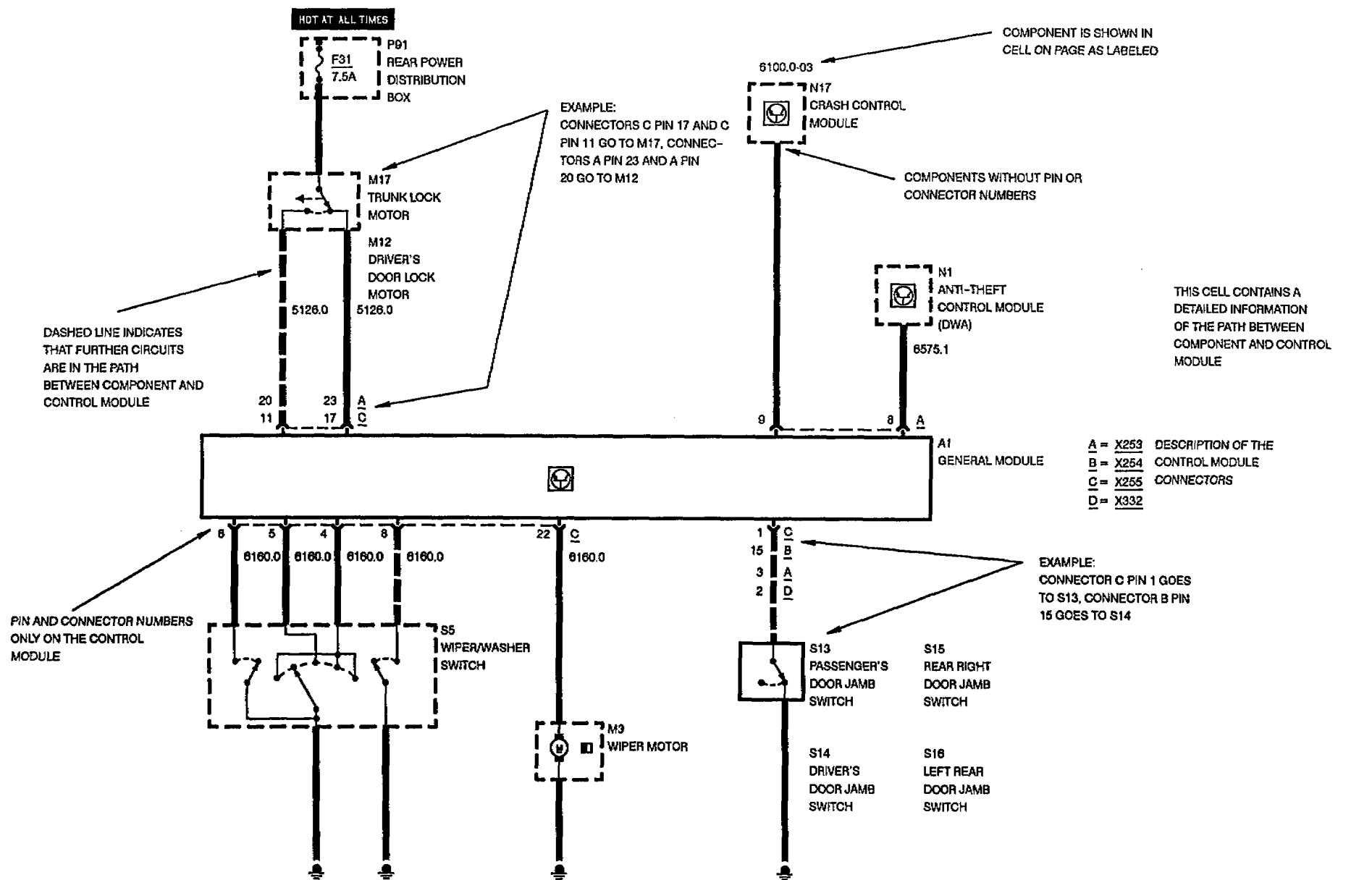
THE COMPLETE WIRE
PROGRESSION AND FURTHER
CIRCUITS CONNECTED TO
GROUND X497 ARE SHOWN IN
CELL "0670.4 GROUND
DISTRIBUTION" AT
GROUND X497



CURRENT PATH IS CONTINUED
AS LABELED



ARROW SHOWS
DIRECTION OF CURRENT
FLOW AND IS REPEATED
WHERE CURRENT
PATH CONTINUES





— 0670.0 —



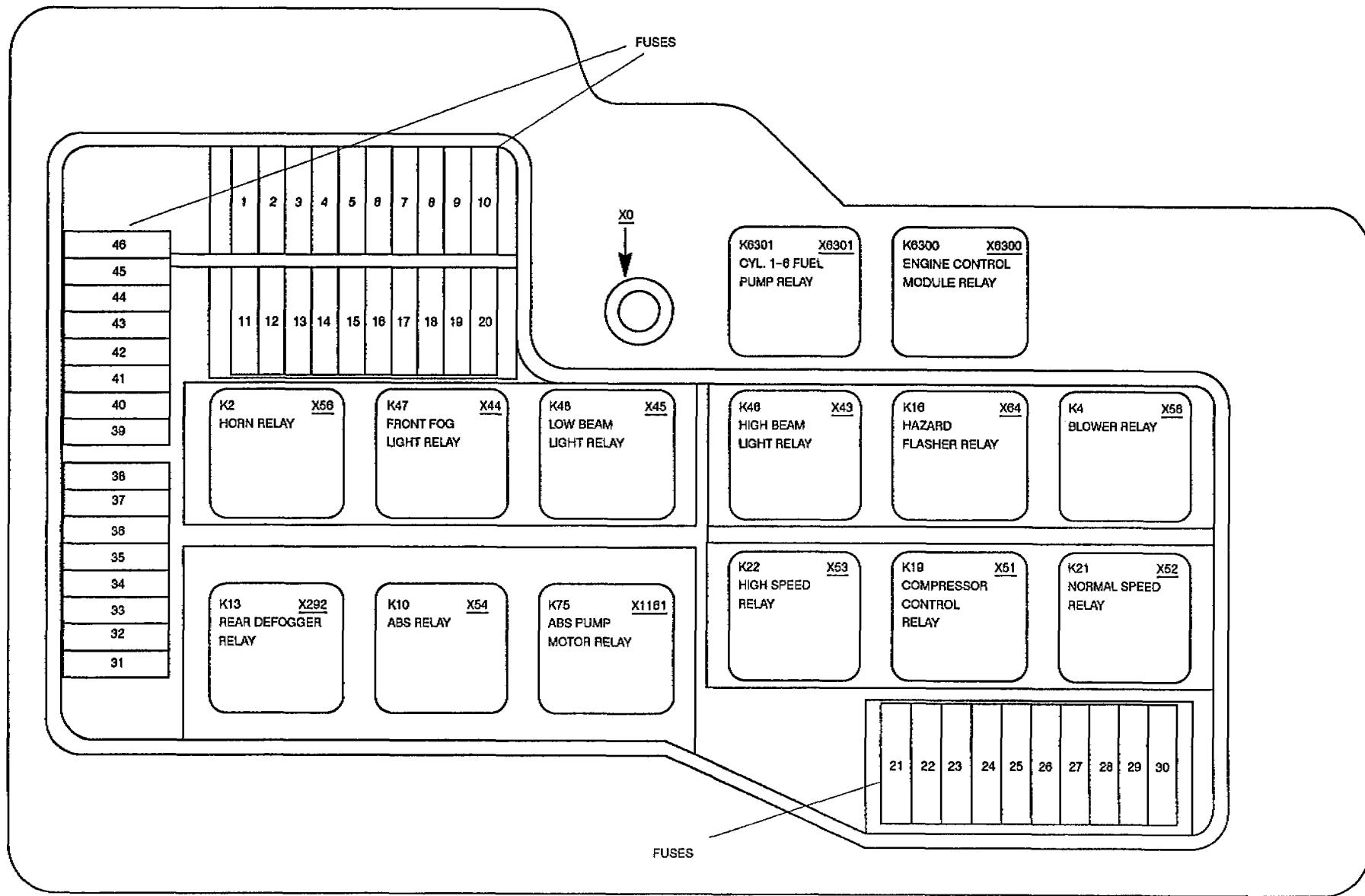
POWER DISTRIBUTION CHART

P90 FRONT POWER DISTRIBUTION BOX

12/94

0670.0-00

1994





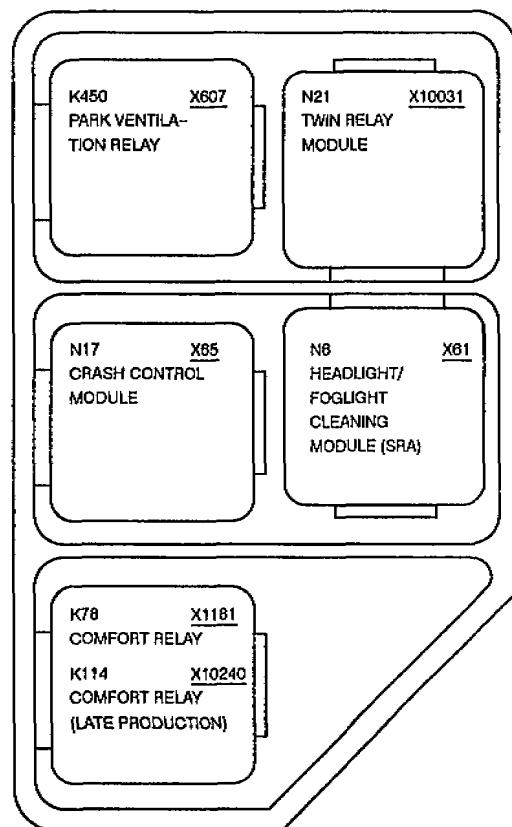
POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD

12/94

0670.0-01

1994





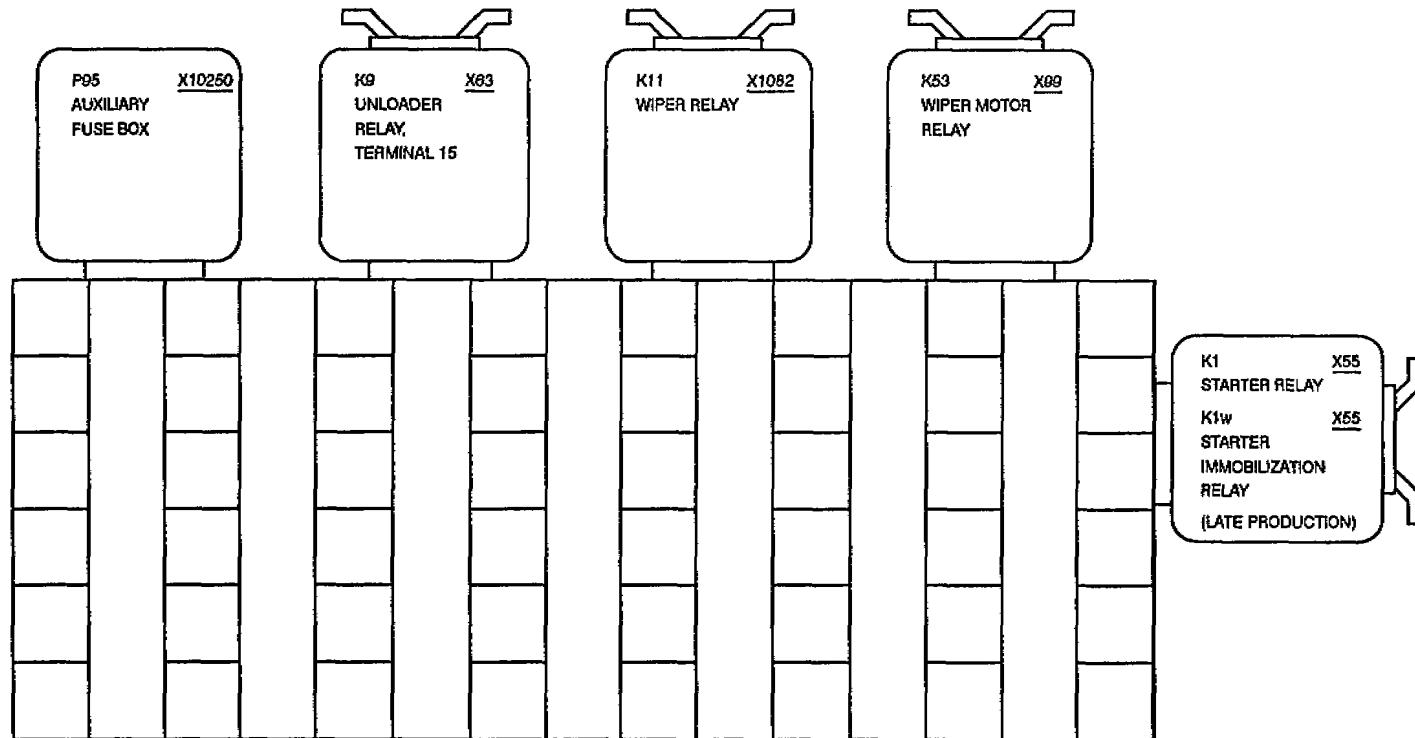
POWER DISTRIBUTION CHART

SPLICE PANEL UNDER LH SIDE OF DASHBOARD

12/94

0670.0-02

1994





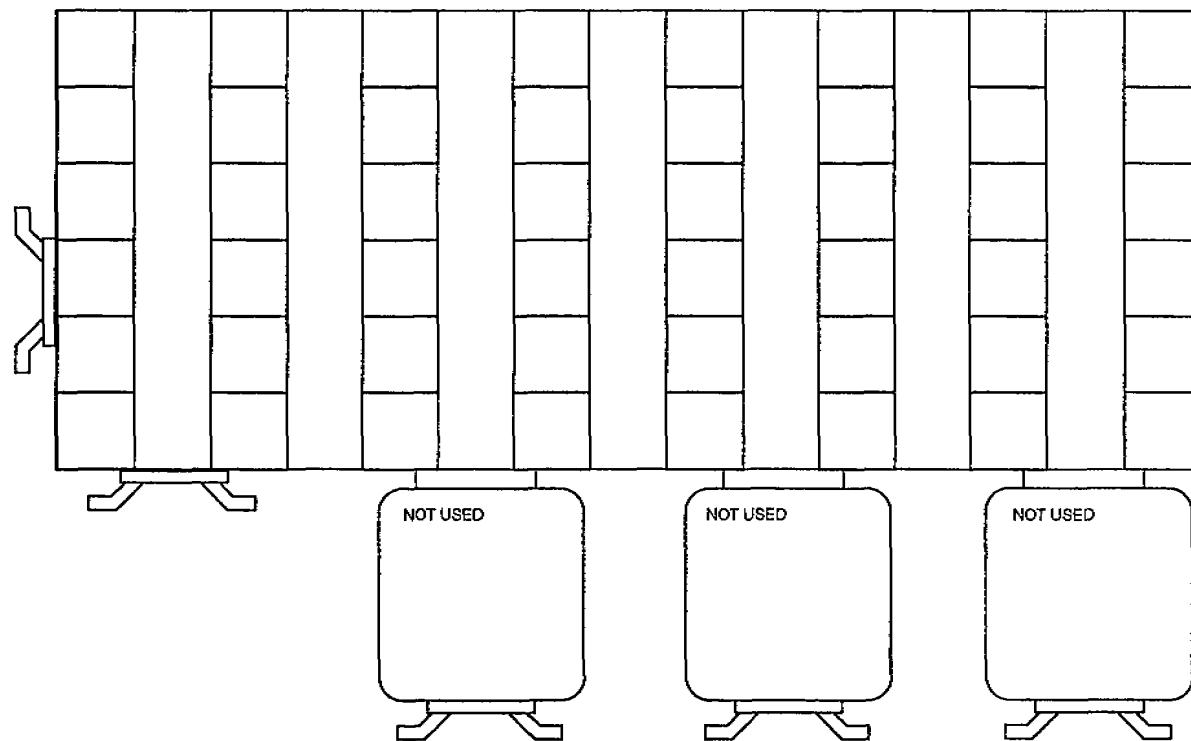
POWER DISTRIBUTION CHART

SPlice Panel Under RH Side of Dashboard

09/93

— 0670.0-03 —

1994





FUSE CHART

FUSES 1 TO 29

12/94

1994



FUSE CHART

FUSES 1 TO 29

	FUSE NUMBER																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
	30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	7.5A	5A	10A	15A	30A	30A	5A	5A	10A	5A	10A	5A	5A	7.5A	
6133.0 HORN																													
6160.1 WIPER/WASHER MODULE (WWM)																													
6167.1 HEADLIGHT WASHER (SRA)																													
6169.0 WINDSHIELD WASHER JET HEATERS																													
6211.0 INSTRUMENT CLUSTER																													
6213.2 MULTI-FUNCTION CLOCK																													
6214.0 ON-BOARD DISPLAY																													
6300.0 LIGHT SWITCH DETAILS																													
6312.0 HEADLIGHTS/ FOG LIGHTS																													
6313.0 TURN/HAZARD LIGHTS																													
6314.0 PARK/TAIL LIGHTS																													
6320.0 LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS																													
6322.0 BACK UP LIGHTS																													
6325.0 BRAKE LIGHTS																													
6330.3 INTERIOR LIGHTS																													
6332.1 GLOVE BOX LIGHT/CASSSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER																													
6350.0 CRASH CONTROL MODULE																													
6412.5 PARK VENTILATION WITH IHKR																													
6424.0 REAR WINDOW DEFOGGER																													
6450.4 INTEGRATED CLIMATE REGULATION (IHKR E36)																													



FUSE CHART

FUSES 1 TO 29

12/94



FUSE CHART

FUSES 30 TO 47

	FUSE NUMBER																	
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)																	
1210.10	ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)											●						
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)																	
1210.14	ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)											●						
1230.0	CHARGING SYSTEM																	
1240.0	START																	
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310P)														●			
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)												●	●				
3450.0	SLIP CONTROL (ABS)									●					●			
3450.2	SLIP CONTROL (ABS/ASC+T)								●					●				
5116.0	POWER MIRRORS								●									
5120.0	ZKE DOOR LOCK HEATING (TSH)								●									
5126.0	ZKE CENTRAL LOCKING (ZV)								●									
5133.1	POWER WINDOWS (FH)																	
5200.0	POWER SEATS										●							
5203.0	HEATED SEATS																	
5410.1	POWER SUN ROOF (SHD)																	
5430.0	ELECTRO-MECHANICAL CONVERTIBLE TOP								●				●	●				
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)							●	●					●				

FUSE CHART

FUSES 30 TO 47

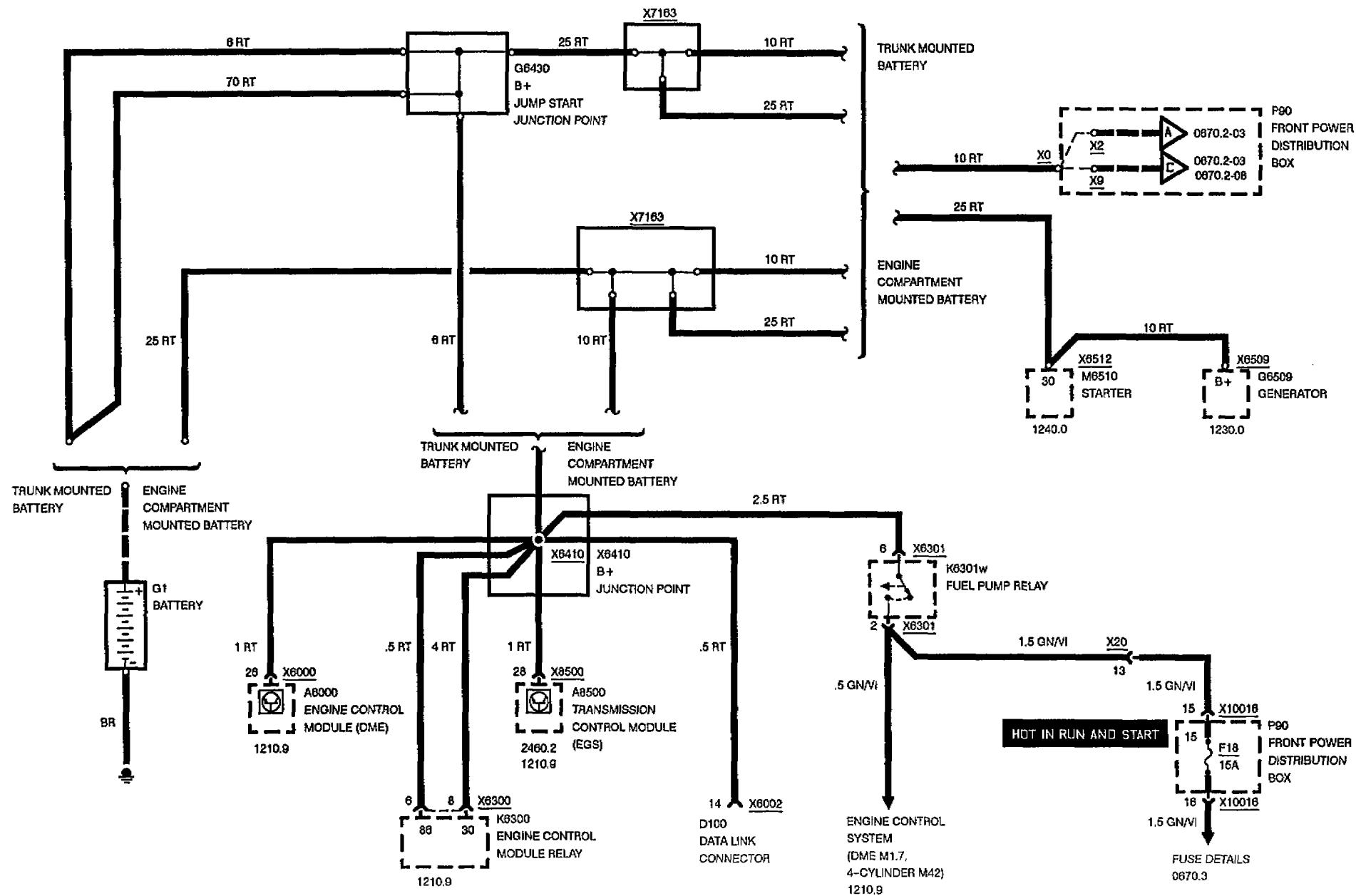
	FUSE NUMBER																	
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A
6133.0 HORN																		
6160.1 WIPER/WASHER MODULE (WWM)									●				●	●				
6167.1 HEADLIGHT WASHER (SRA)																		
6169.0 WINDSHIELD WASHER JET HEATERS																		
6211.0 INSTRUMENT CLUSTER		●												●				
6213.2 MULTI-FUNCTION CLOCK		●											●	●				
6214.0 ON-BOARD DISPLAY		●											●	●				
6300.0 LIGHT SWITCH DETAILS				●				●										
6312.0 HEADLIGHTS/ FOG LIGHTS	●																	
6313.0 TURN/HAZARD LIGHTS					●													
6314.0 PARK/TAIL LIGHTS					●				●									
6320.0 LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS					●				●									
6322.0 BACK UP LIGHTS																●		
6325.0 BRAKE LIGHTS																		
6330.3 INTERIOR LIGHTS						●							●					
6332.1 GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER					●	●			●									
6350.0 CRASH CONTROL MODULE							●											
6412.5 PARK VENTILATION WITH IHKA																		
6424.0 REAR WINDOW DEFOGGER										●		●						
6450.4 INTEGRATED CLIMATE REGULATION (IHKR E36)		●								●		●		●				



FUSE CHART

FUSES 30 TO 47

FUSE NUMBER																		
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	
7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	
●												●						
●												●						
●											●			●				
●	●		●									●		●	●	●		





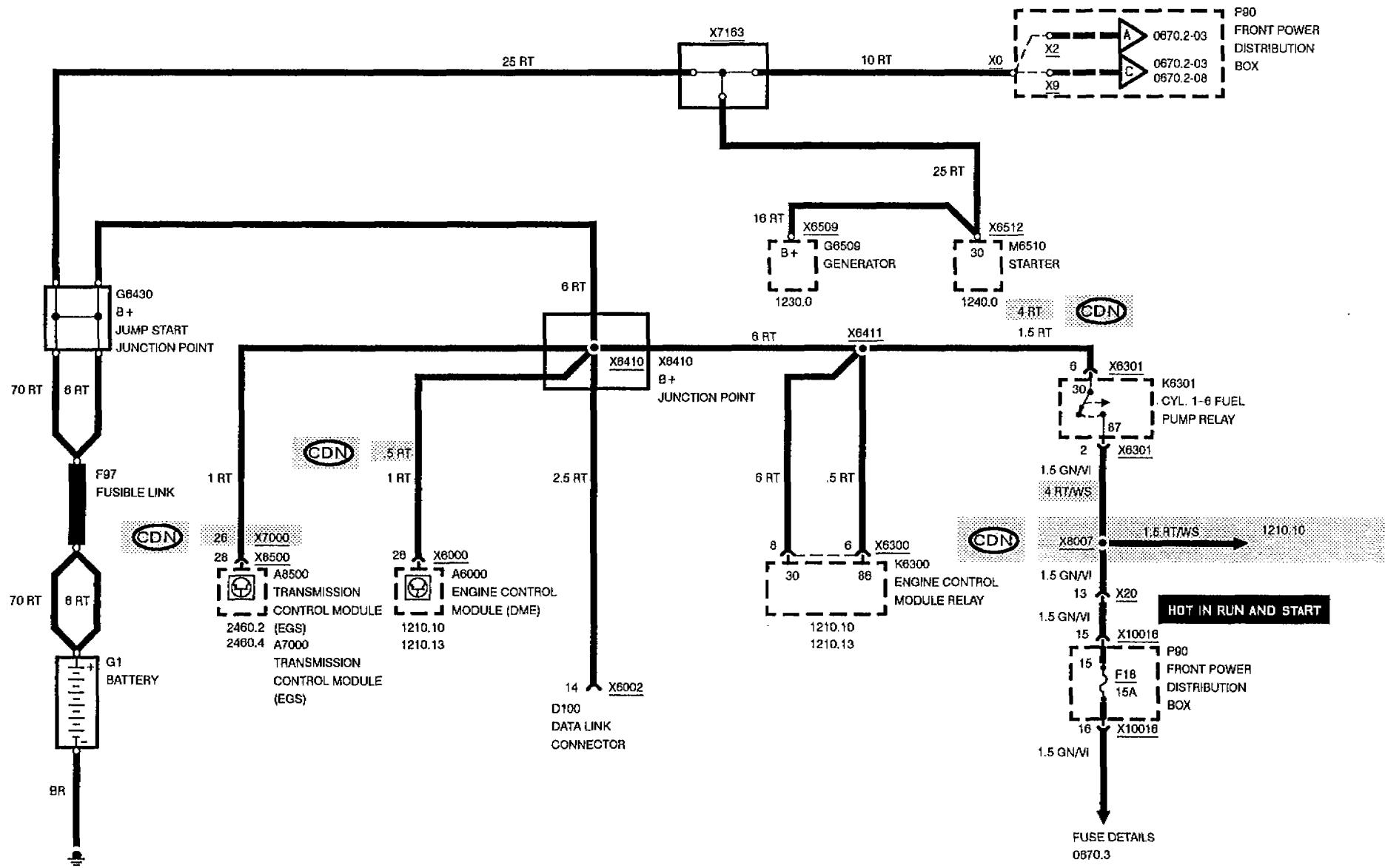
POWER DISTRIBUTION

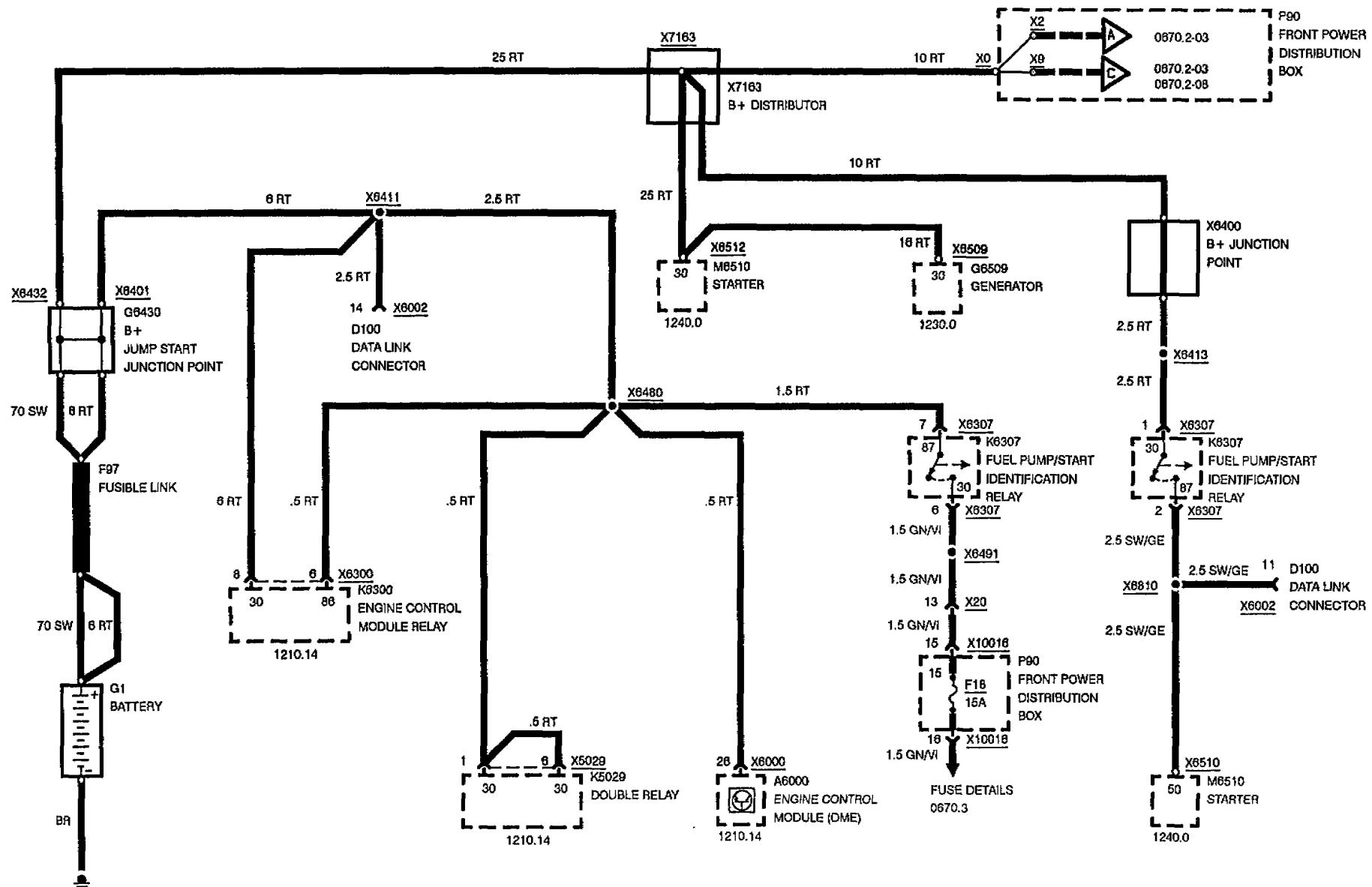
320i, 325i

12/94

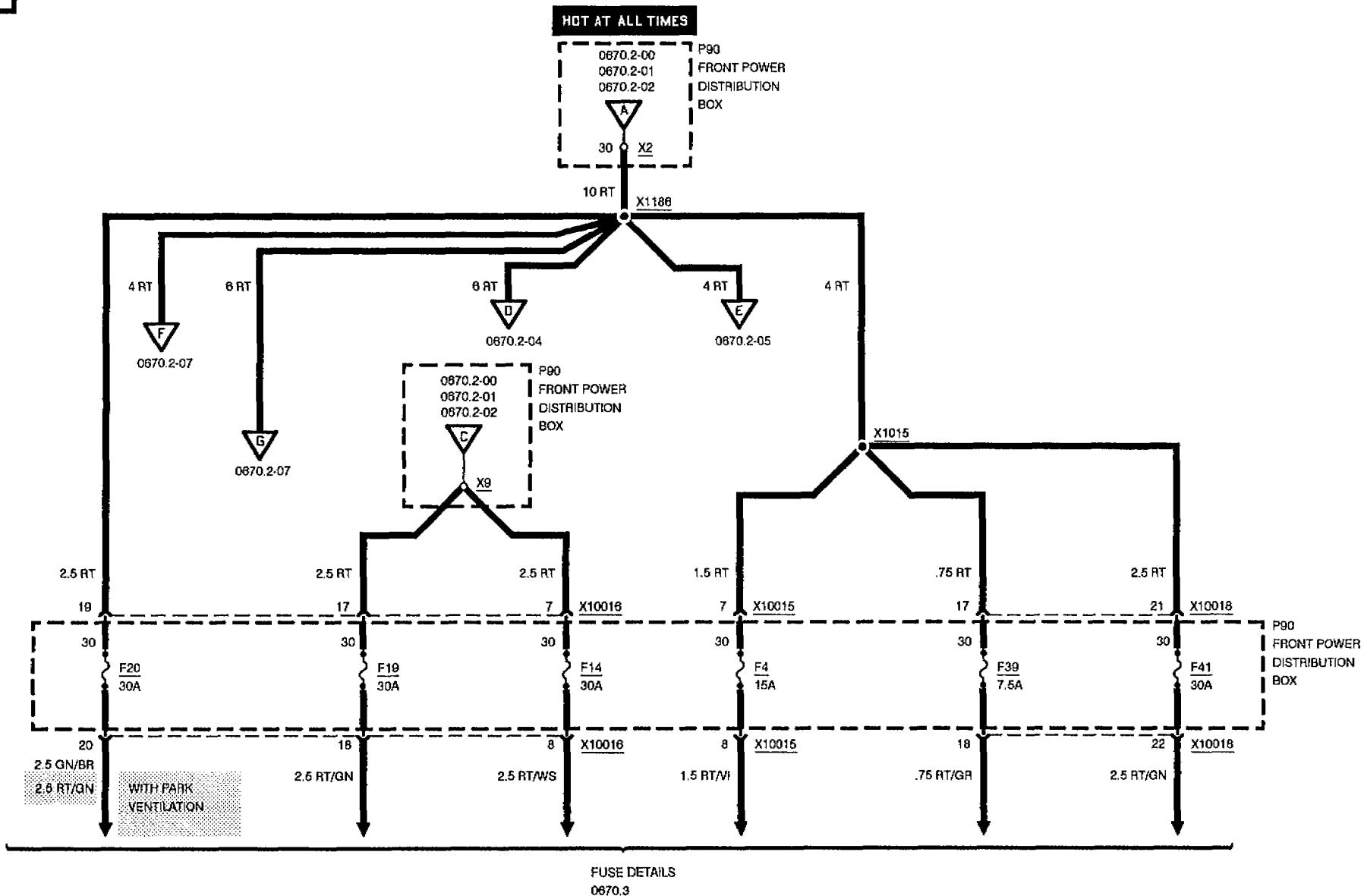
0670-2-01

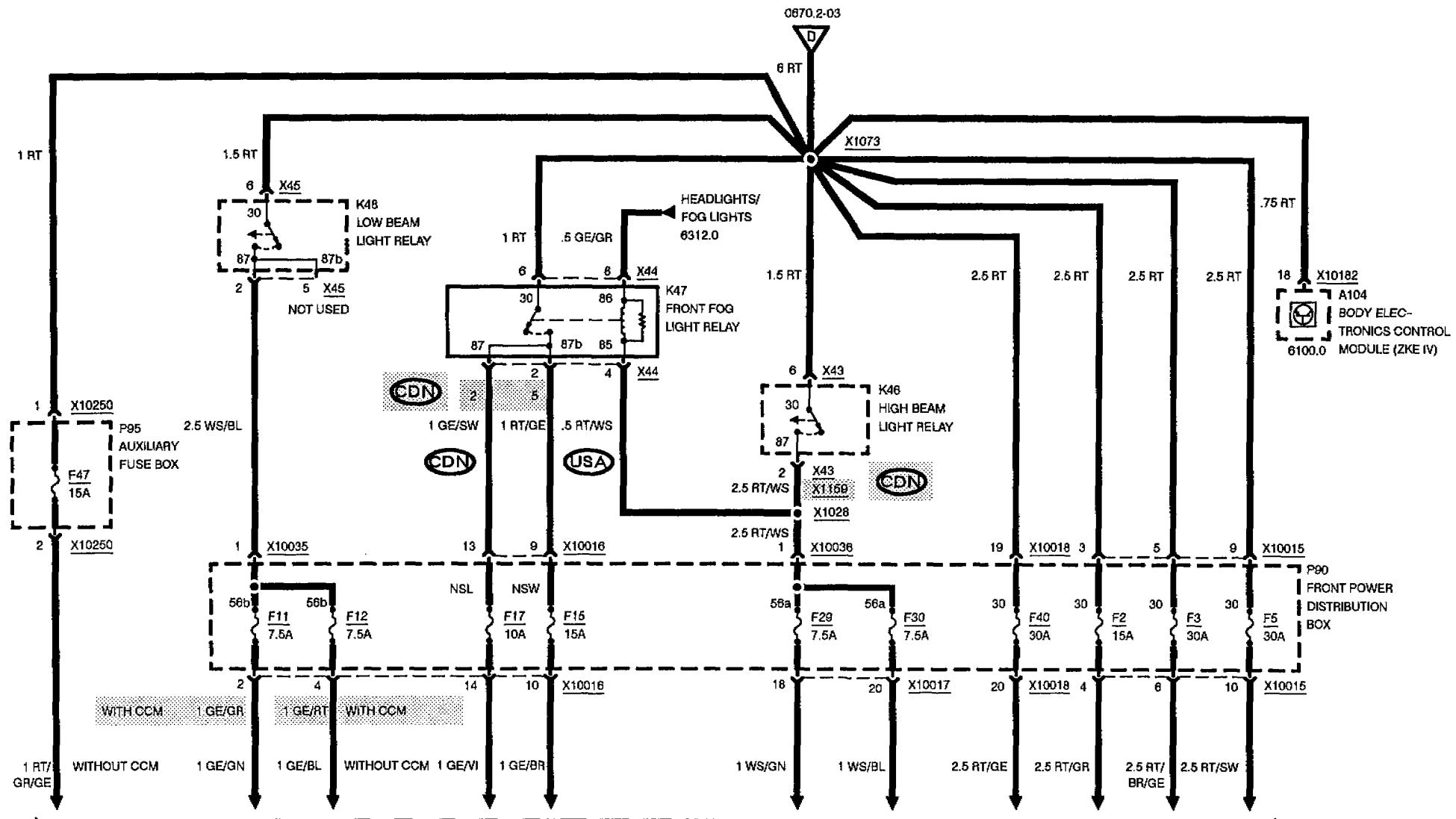
1664





POWER DISTRIBUTION





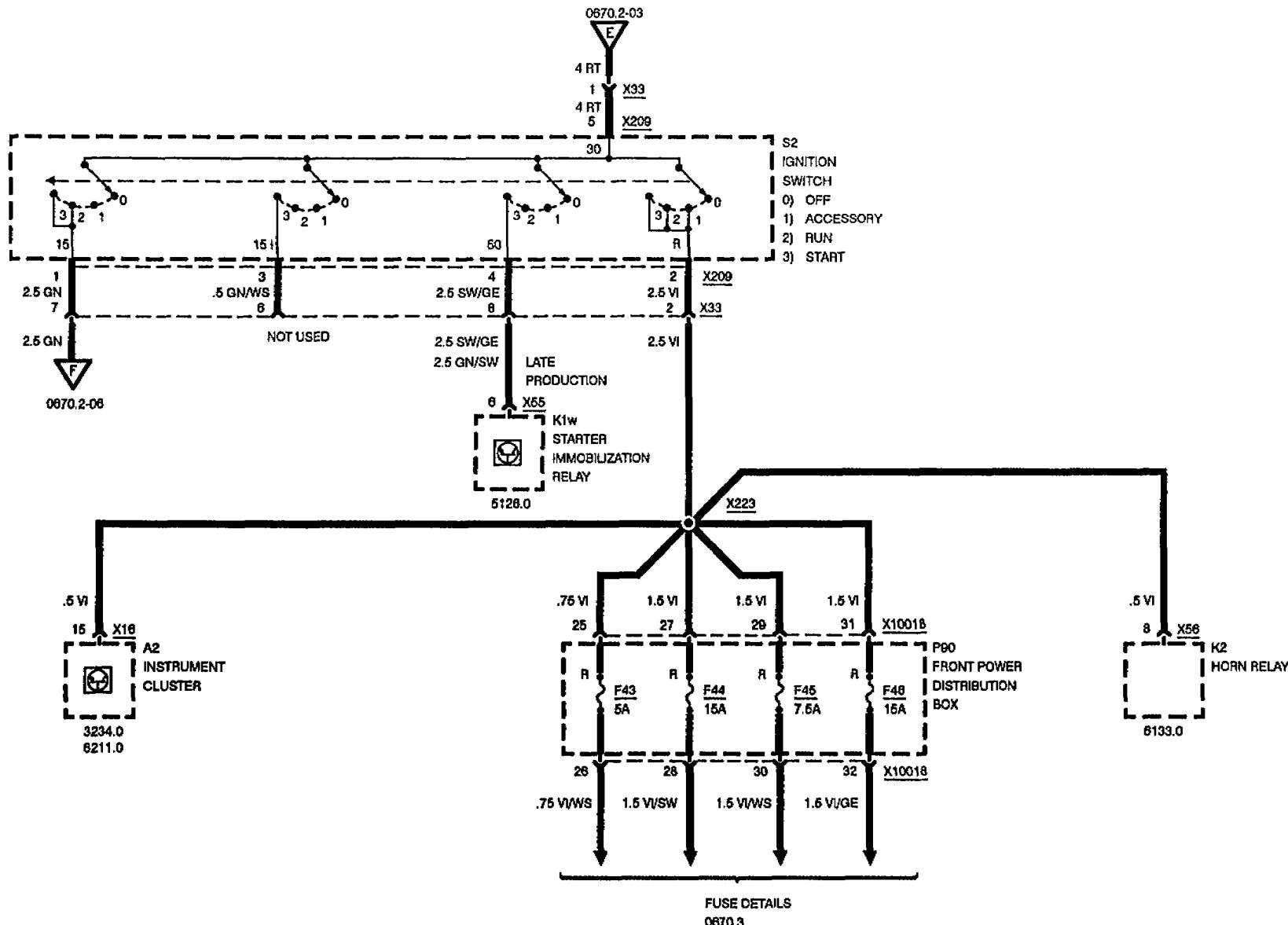


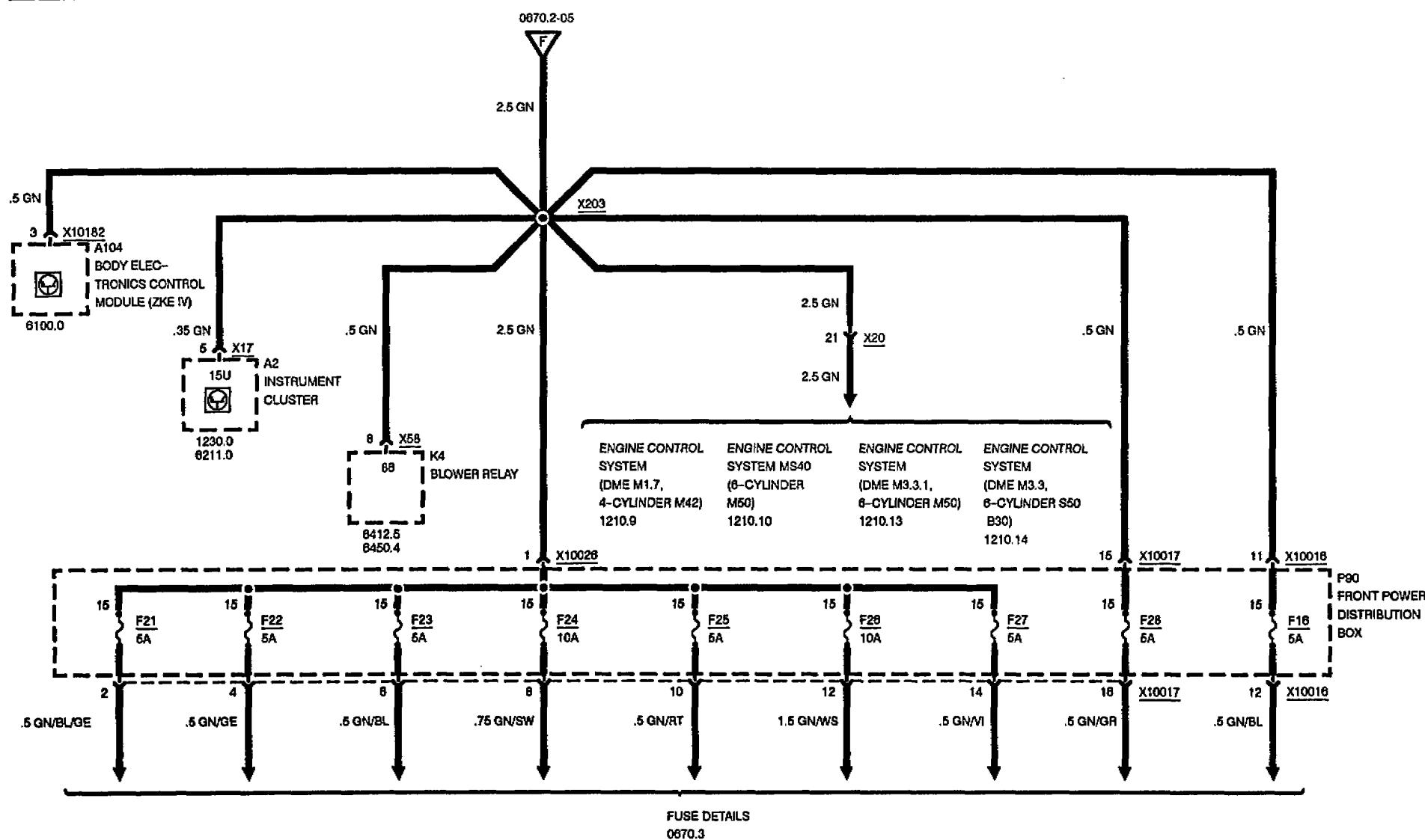
POWER DISTRIBUTION

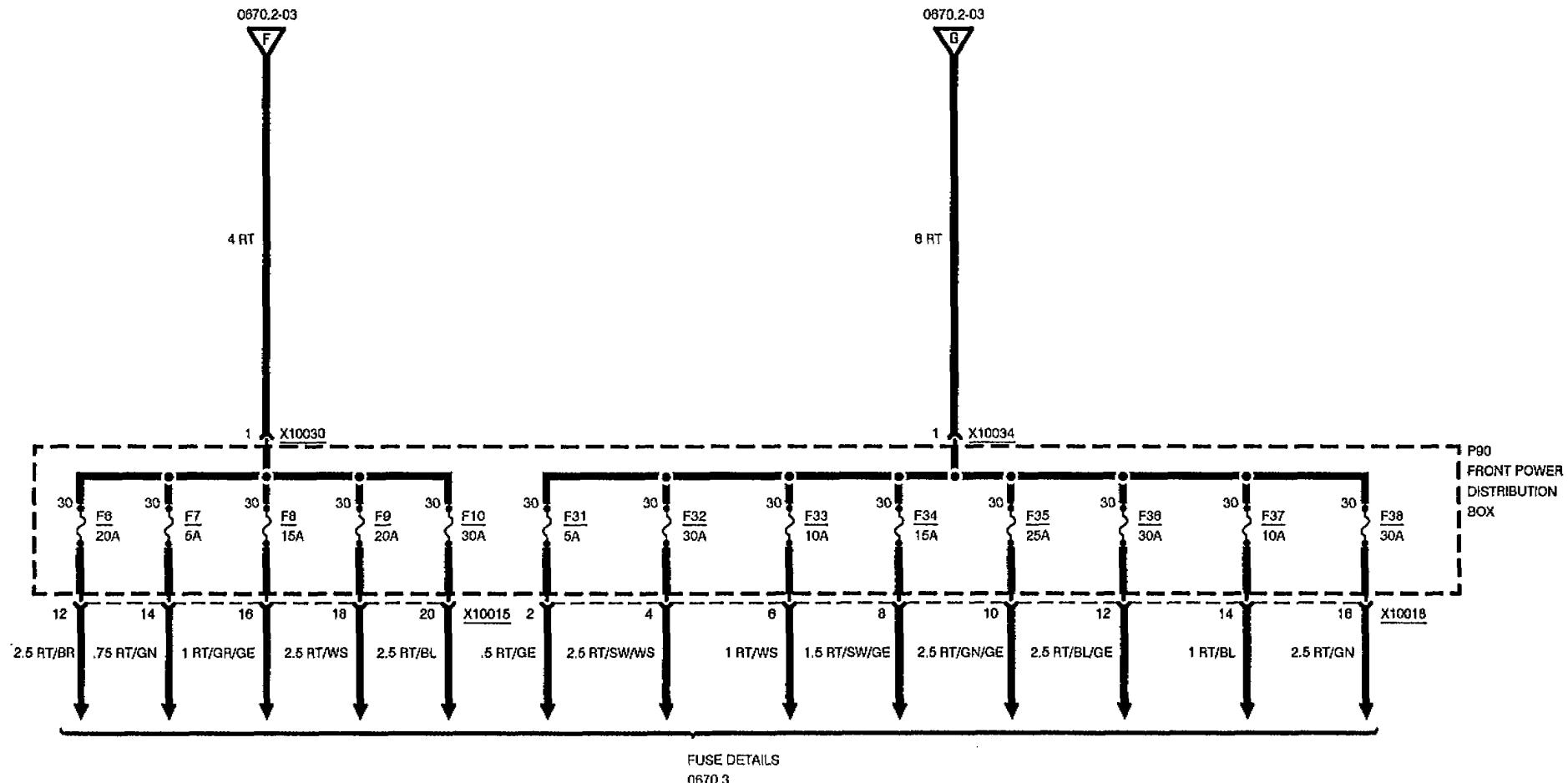
12/94

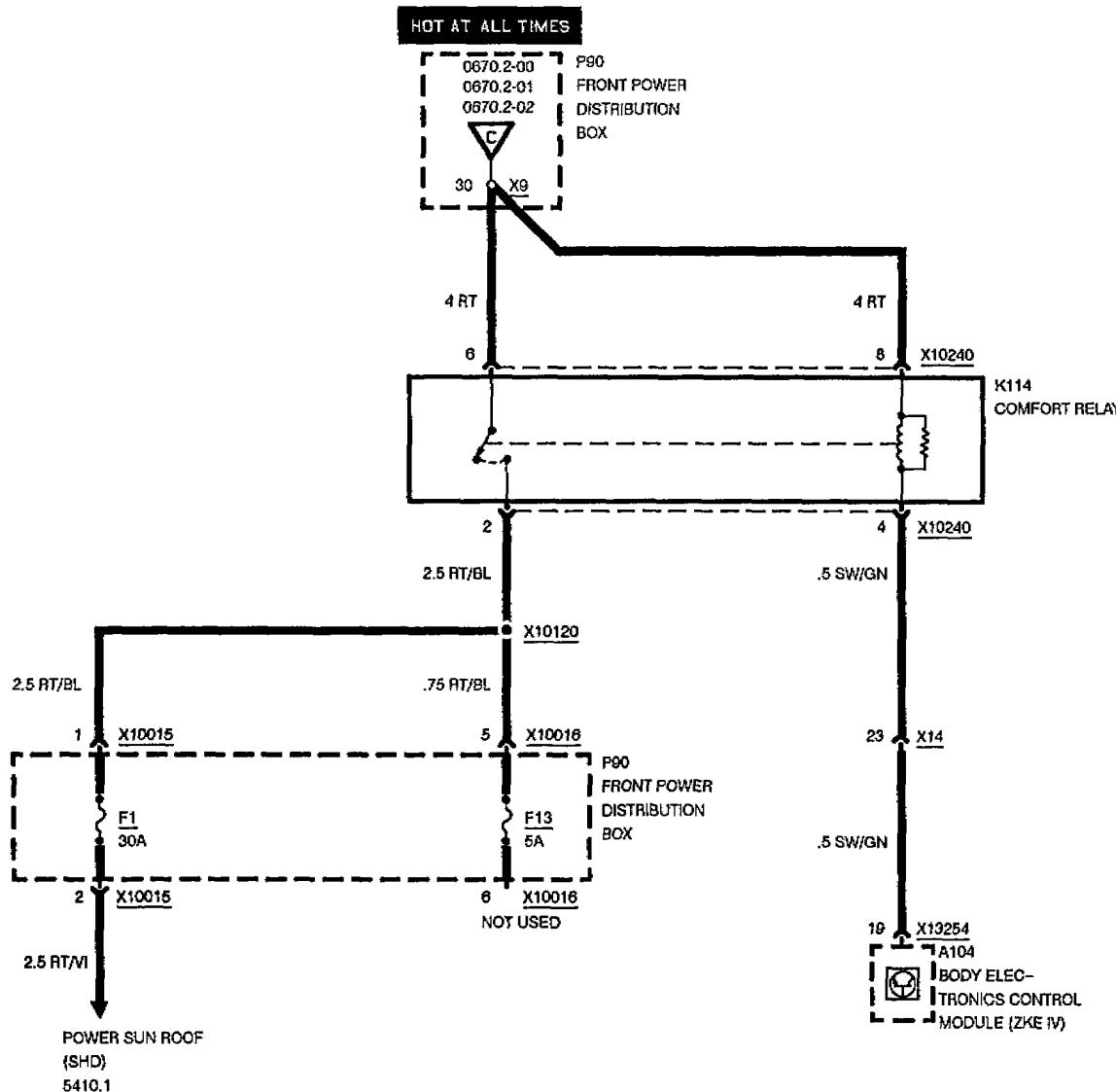
0670.2-05

1994











0670.3



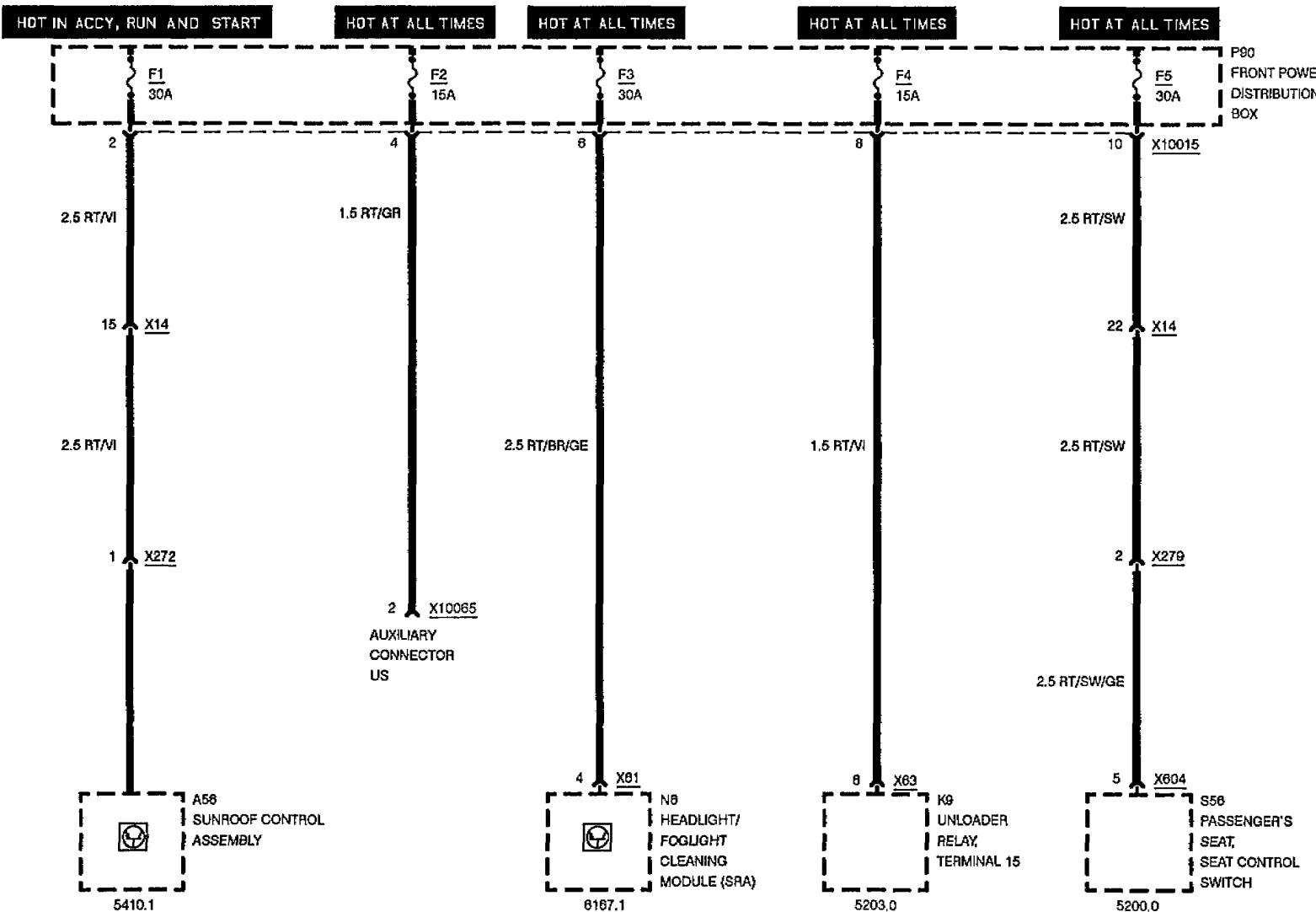
FUSE DETAILS

FUSES 1, 2, 3, 4, AND 5

12/94

— 0670.3-00 —

1994





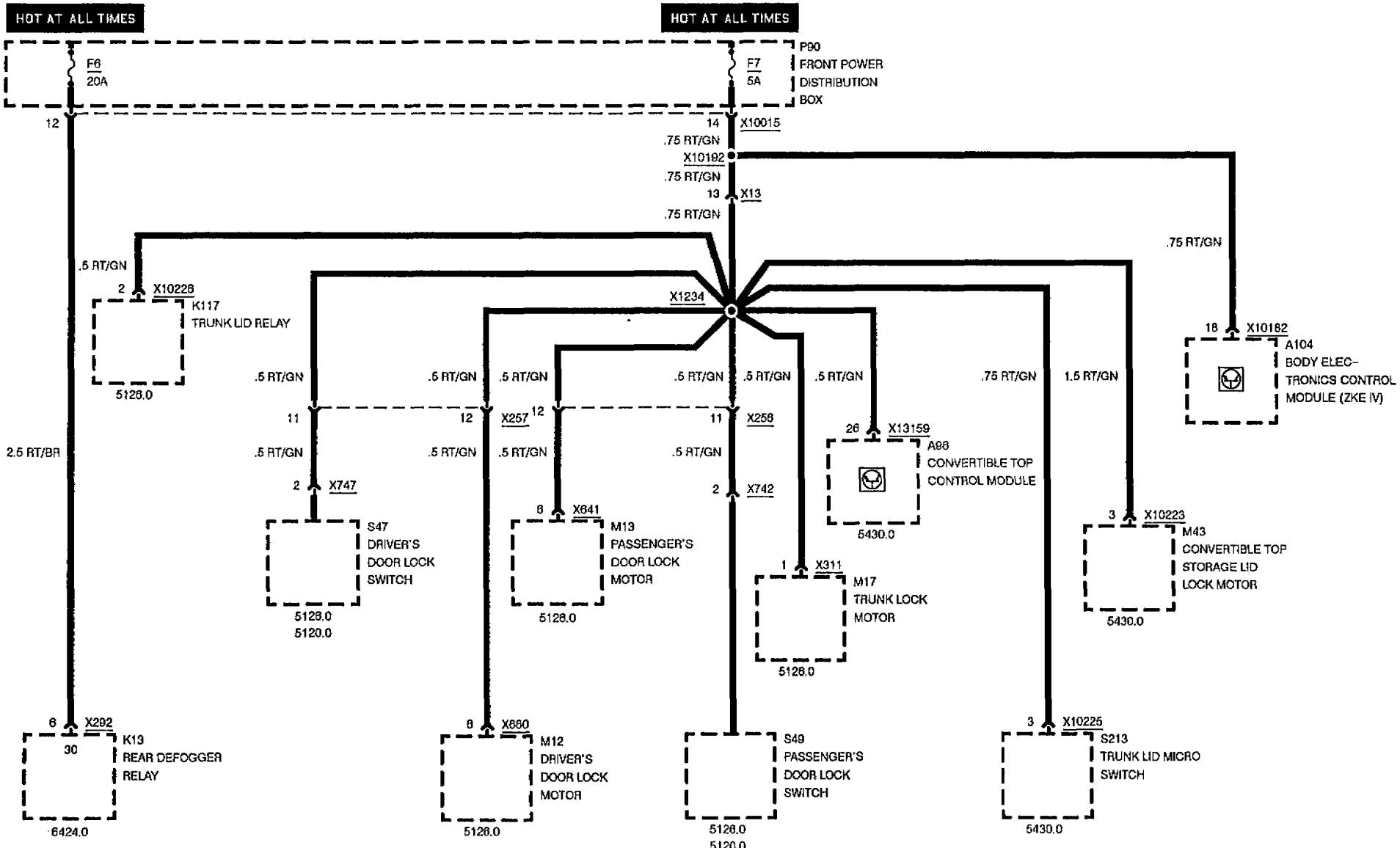
FUSE DETAILS

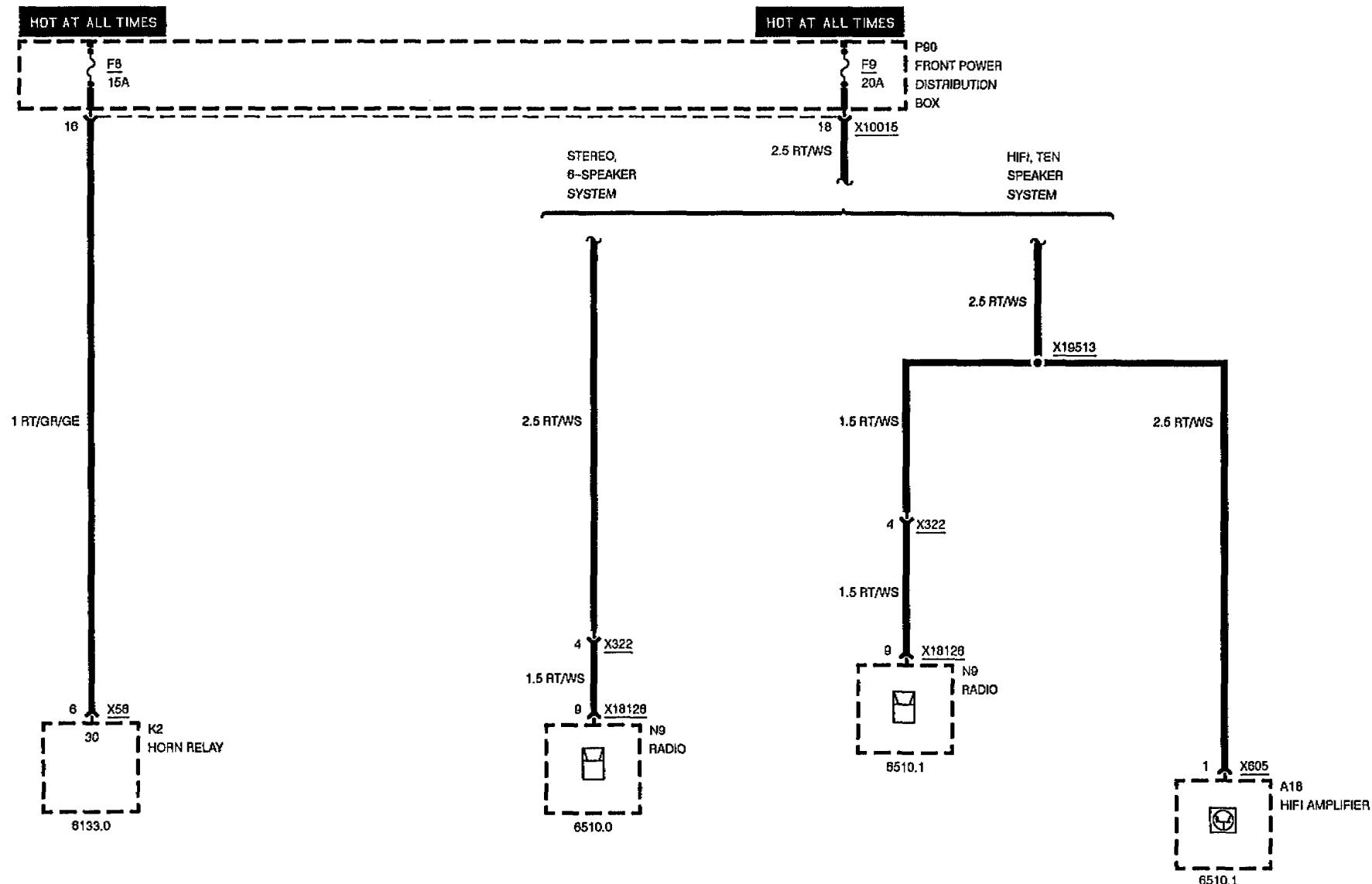
FUSES 6 AND 7

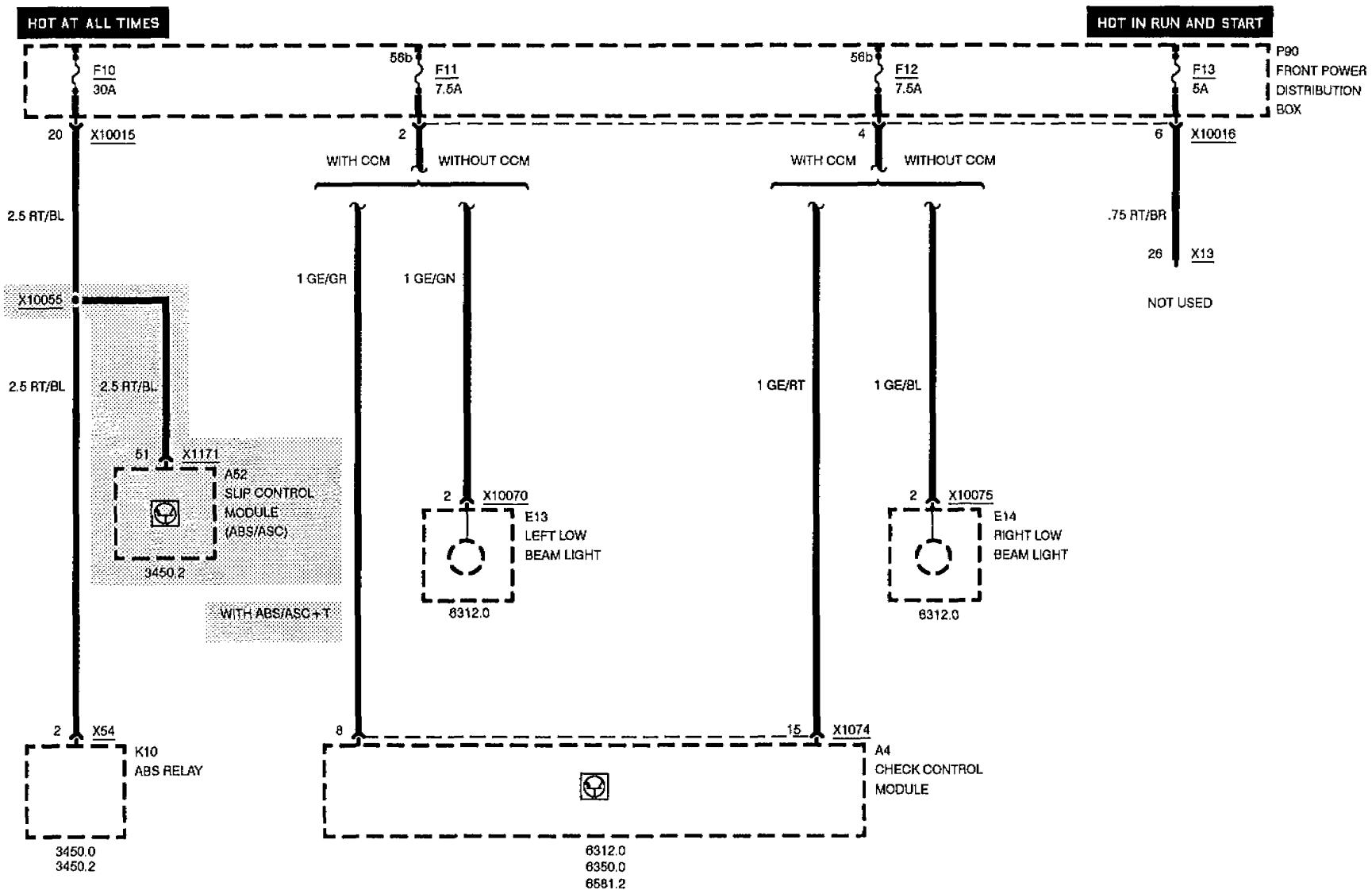
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FUSE DETAILS**FUSES 10, 11, 12, AND 13**



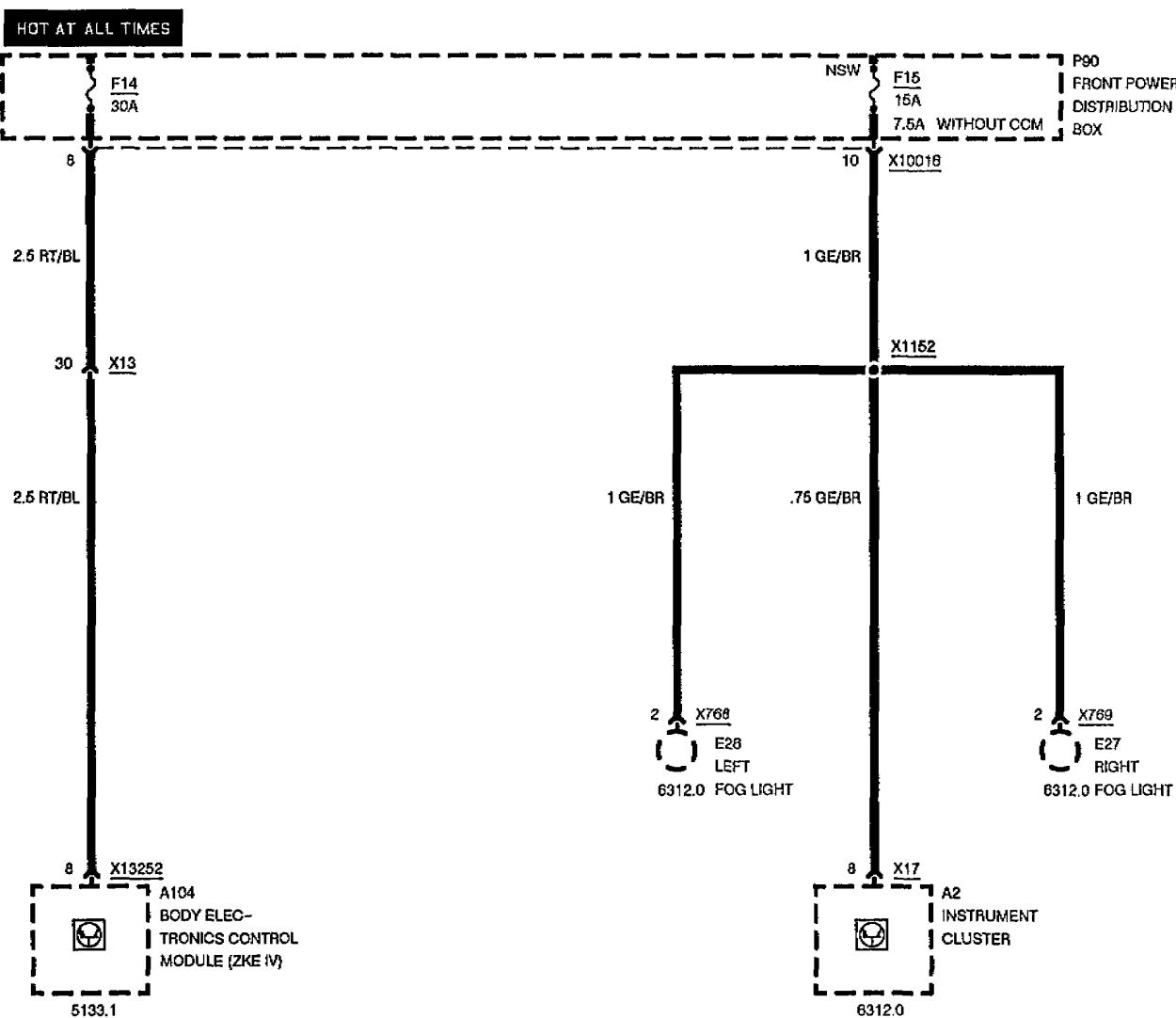
FUSE DETAILS

FUSES 14 AND 15

09/93

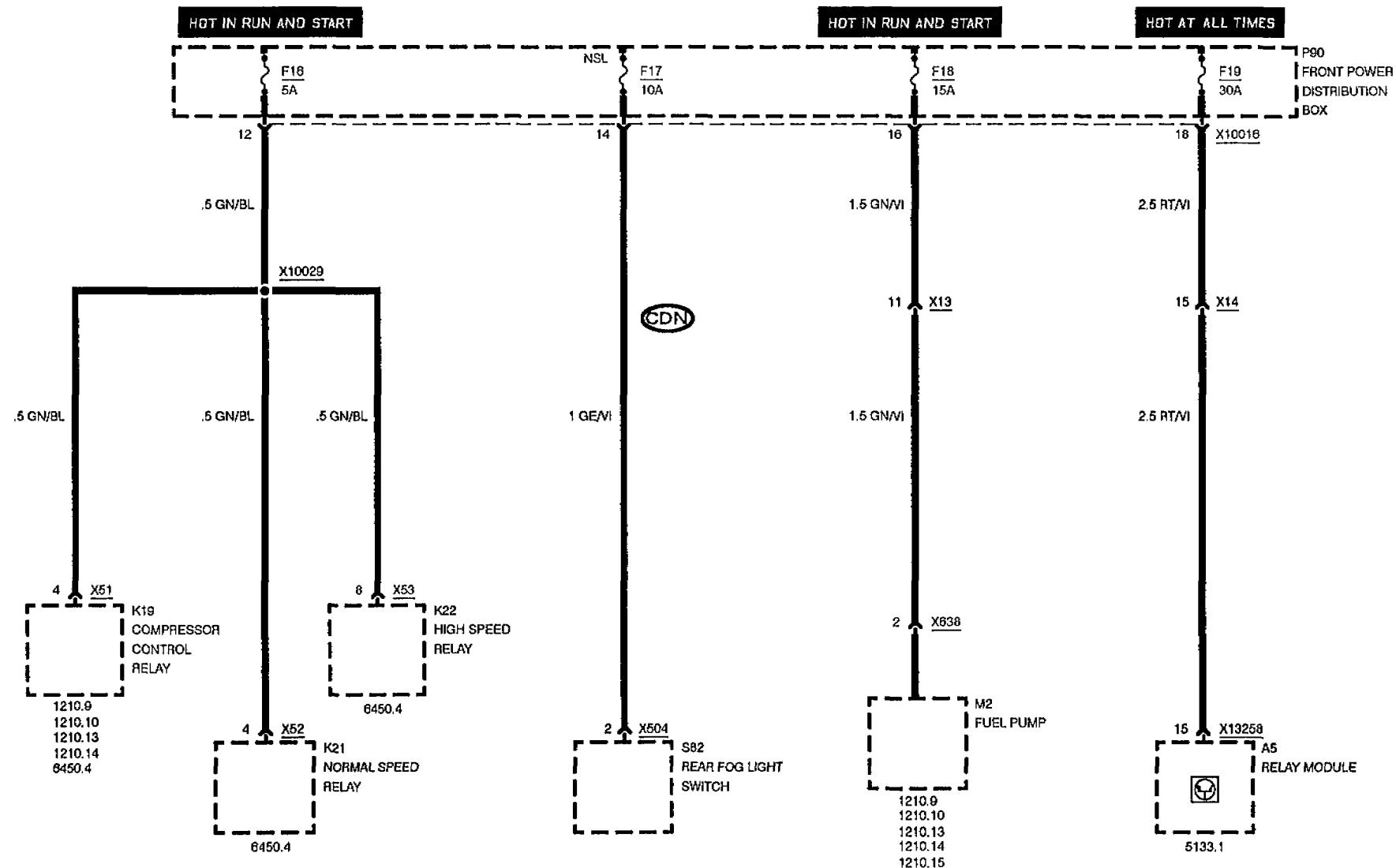
0670.3-04

1994



FUSE DETAILS

FUSES 16, 17, 18, AND 19

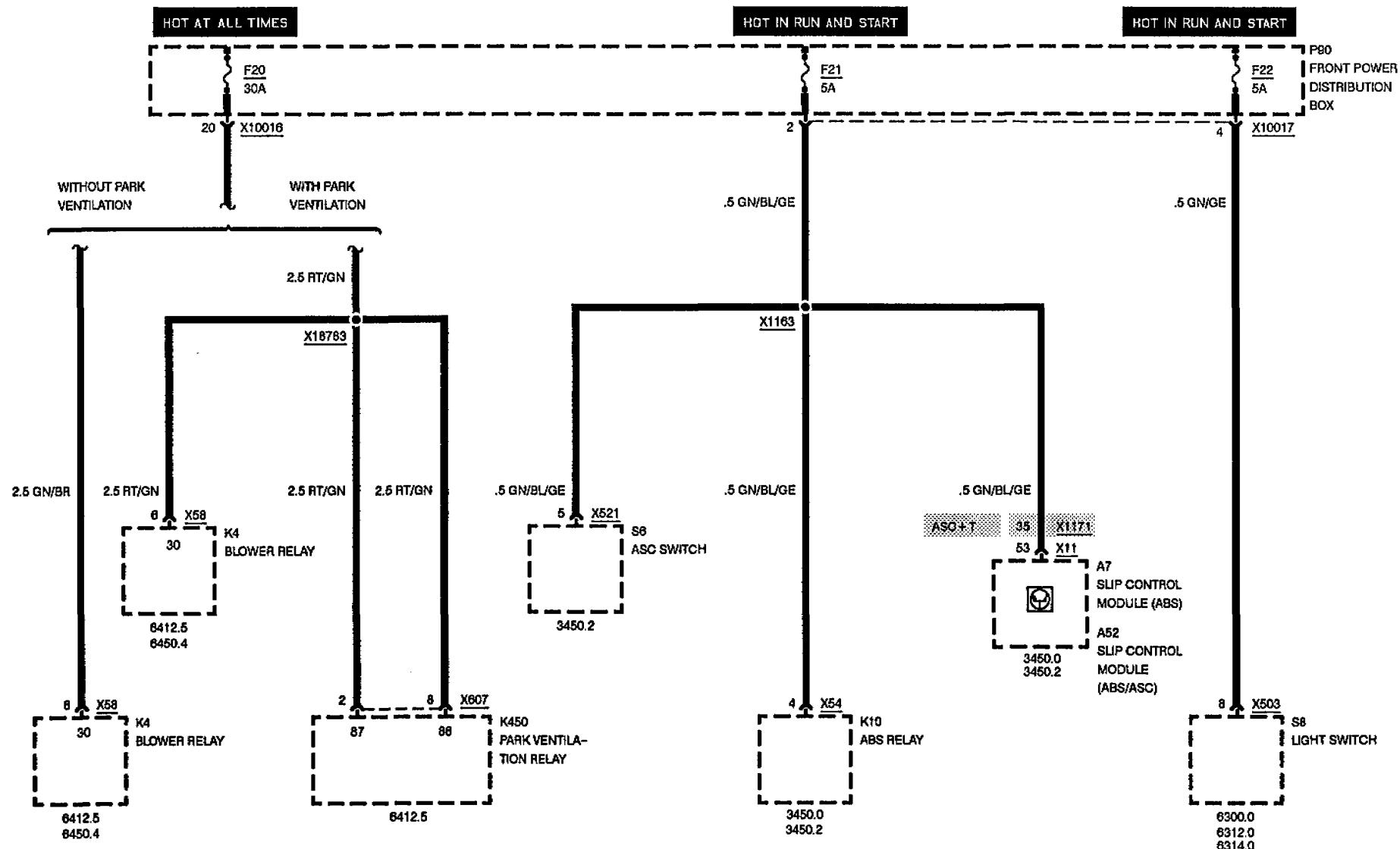




FUSE DETAILS

FUSES 20, 21, AND 22

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- 0670.3-06 -

1994



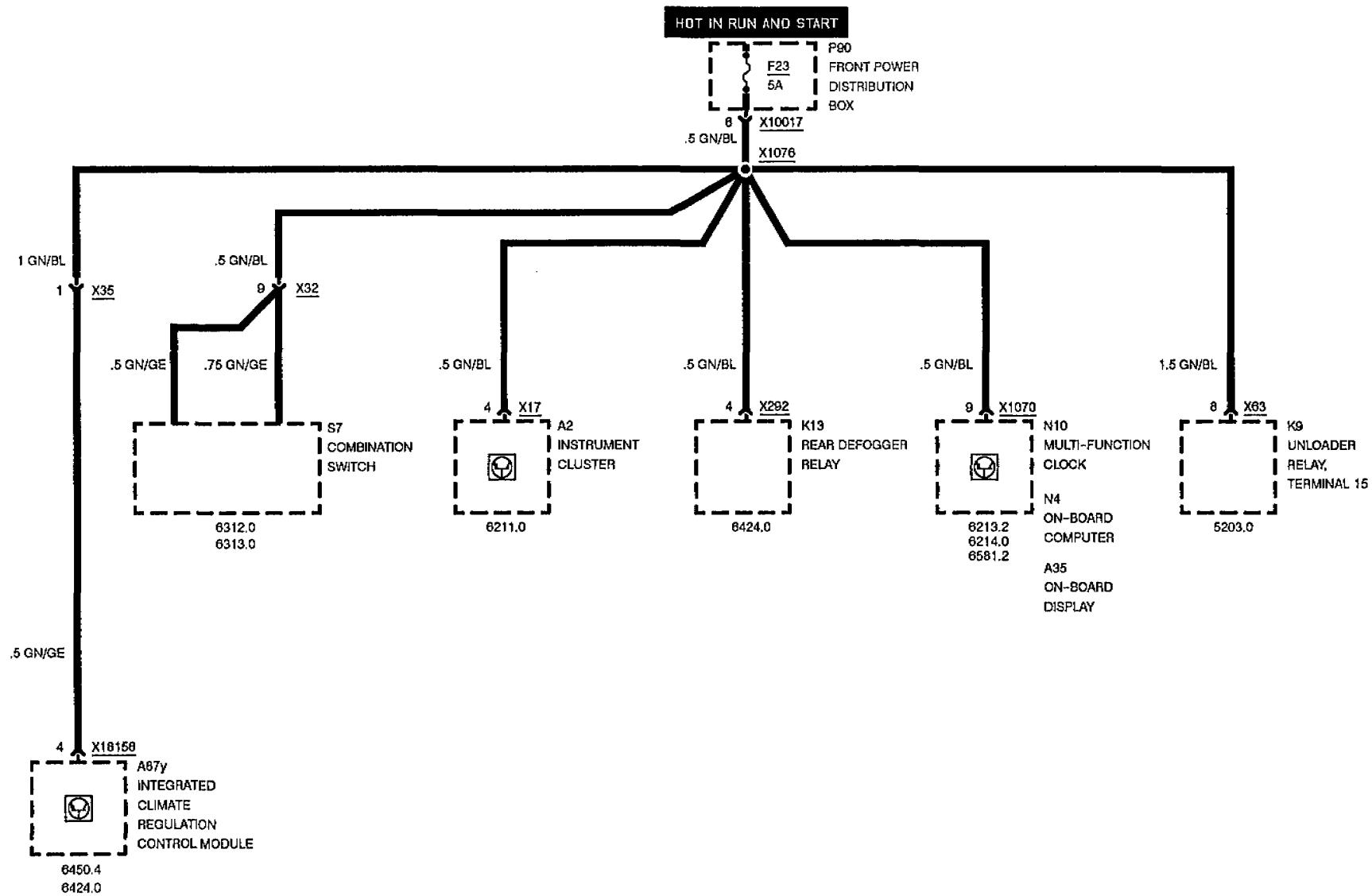
FUSE DETAILS

FUSE 23

12/94

0670.3-07

1994





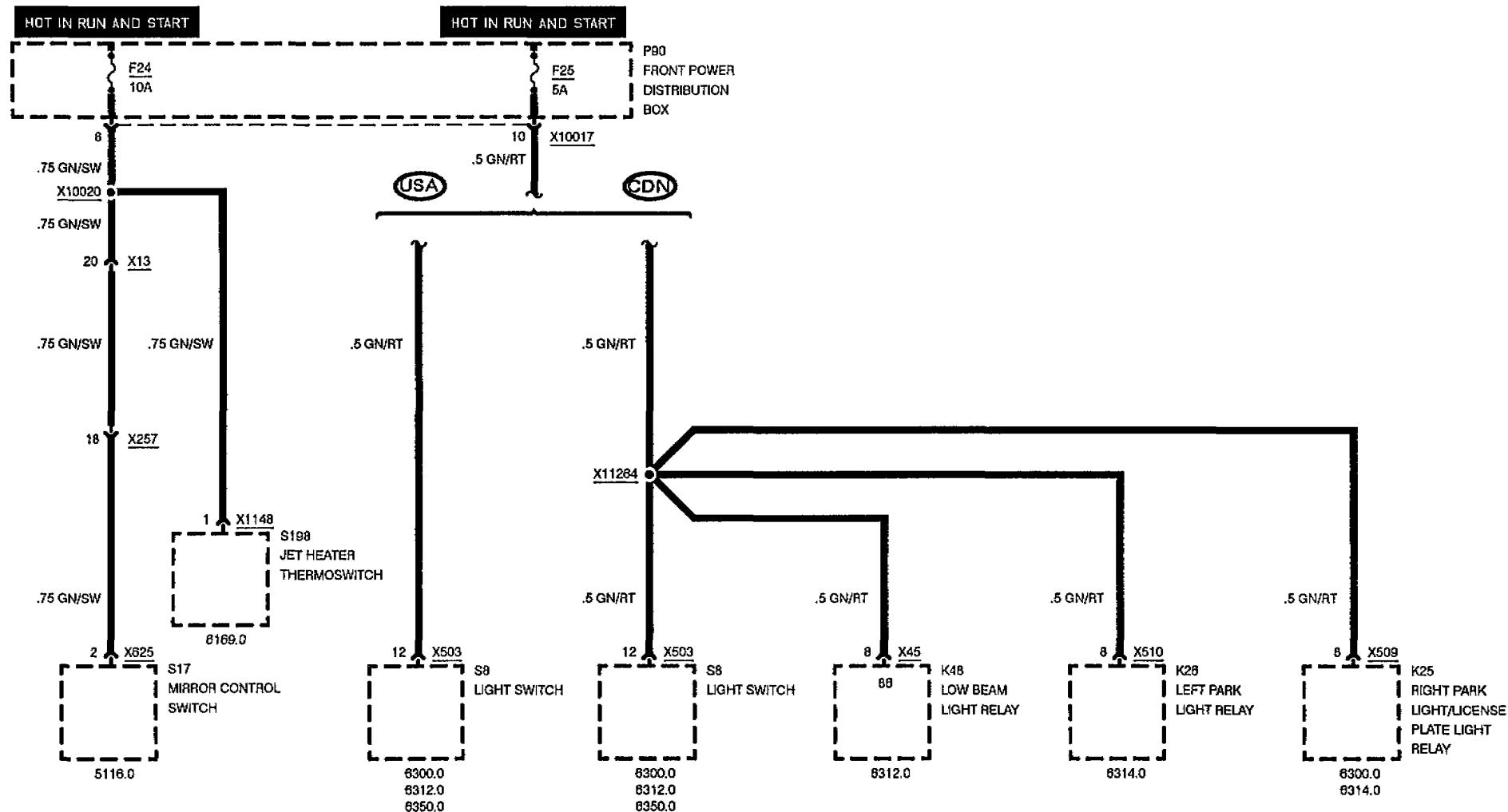
FUSE DETAILS

FUSES 24 AND 25

12/94

0670-3-08

1994





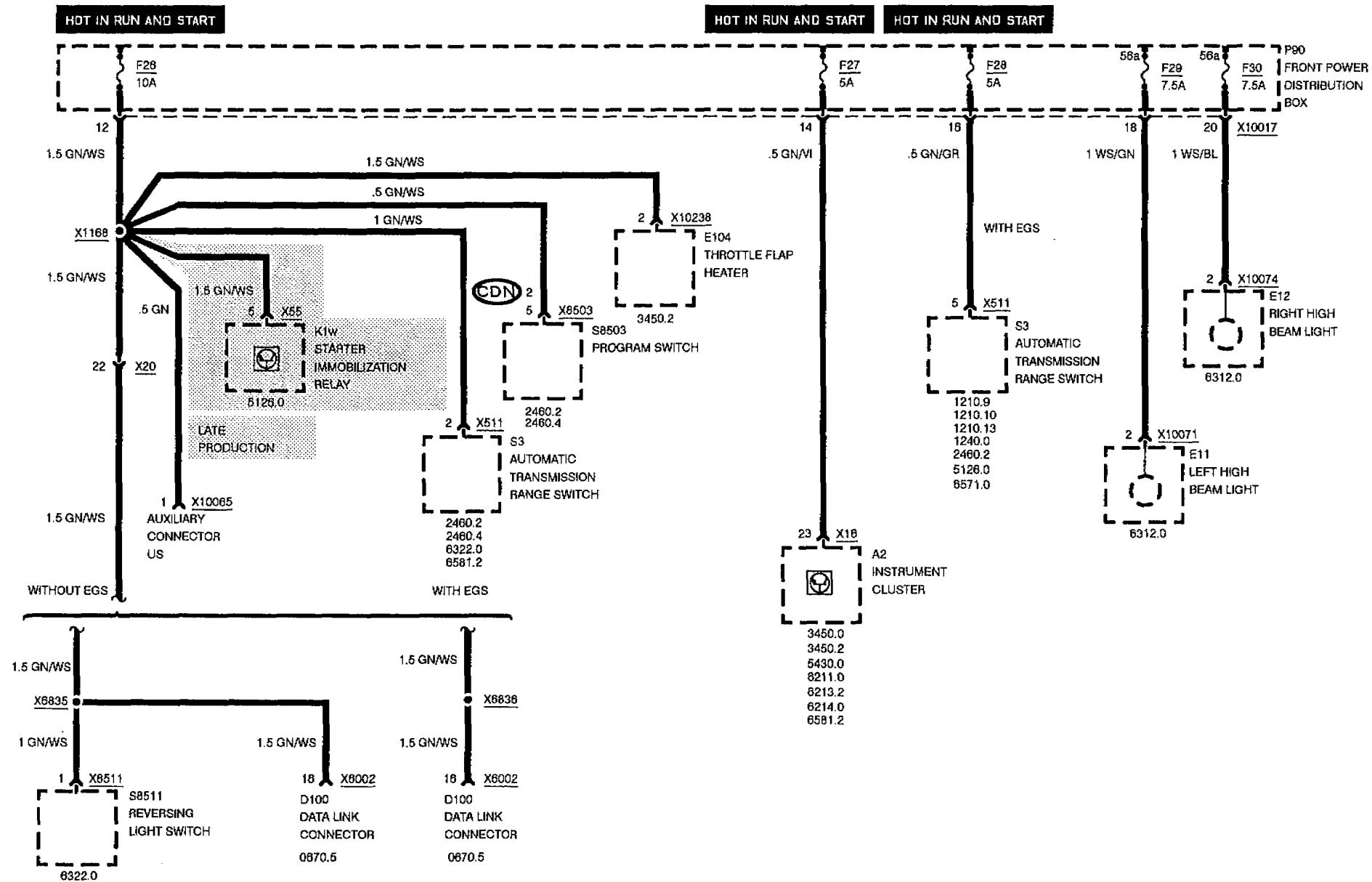
FUSE DETAILS

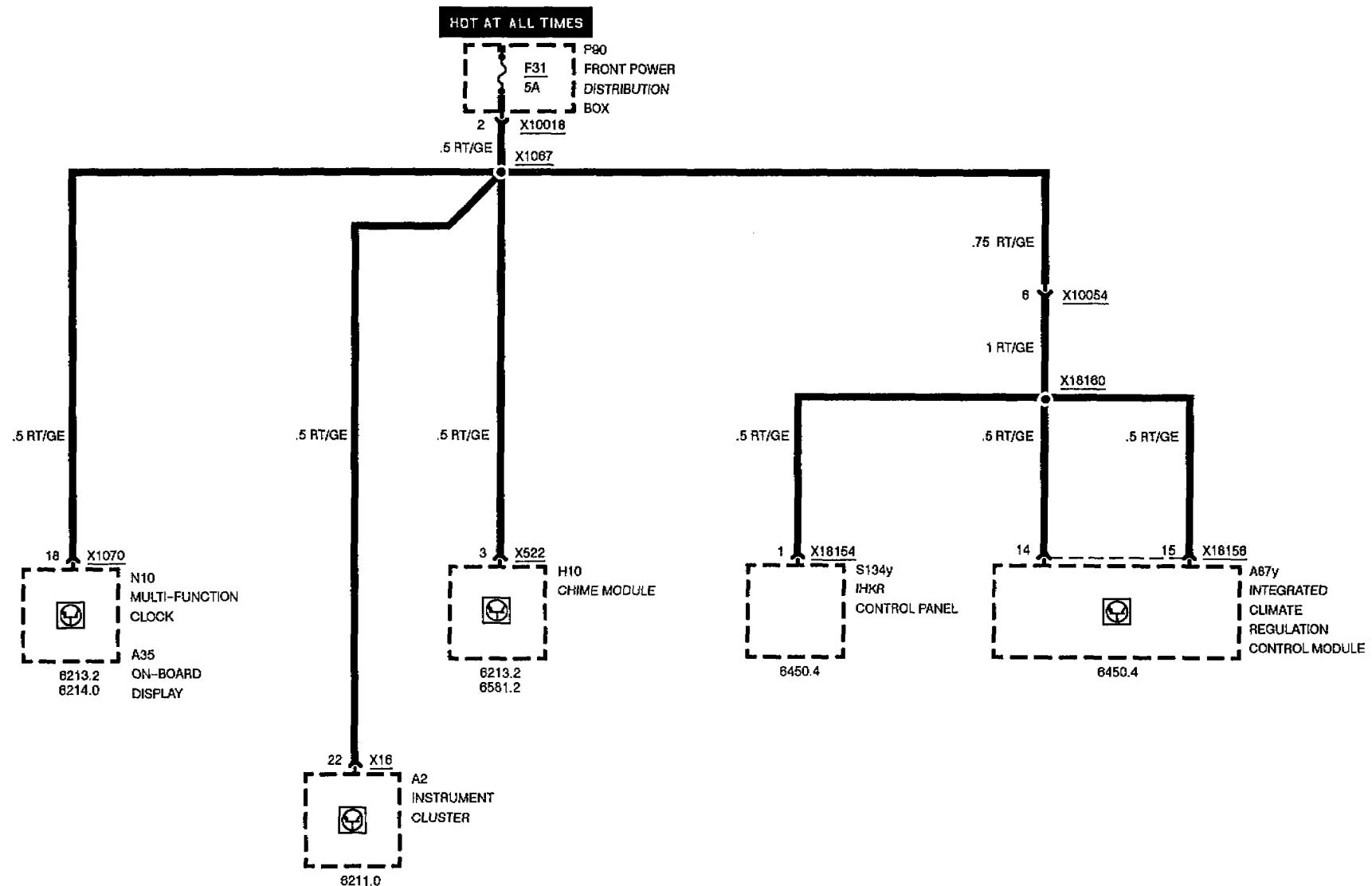
FUSES 26, 27, 28, 29, AND 30

12/94

0670.3-09

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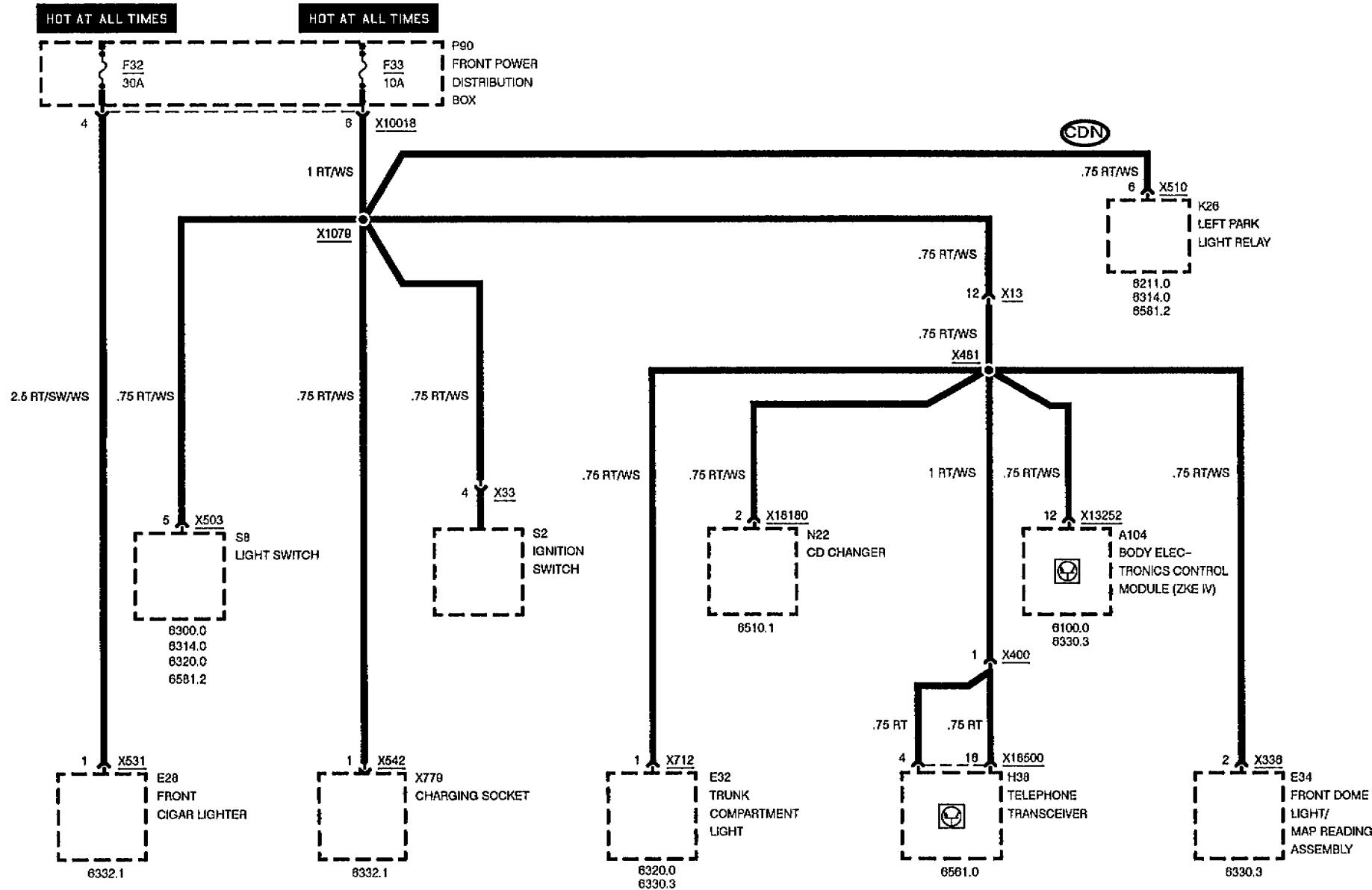


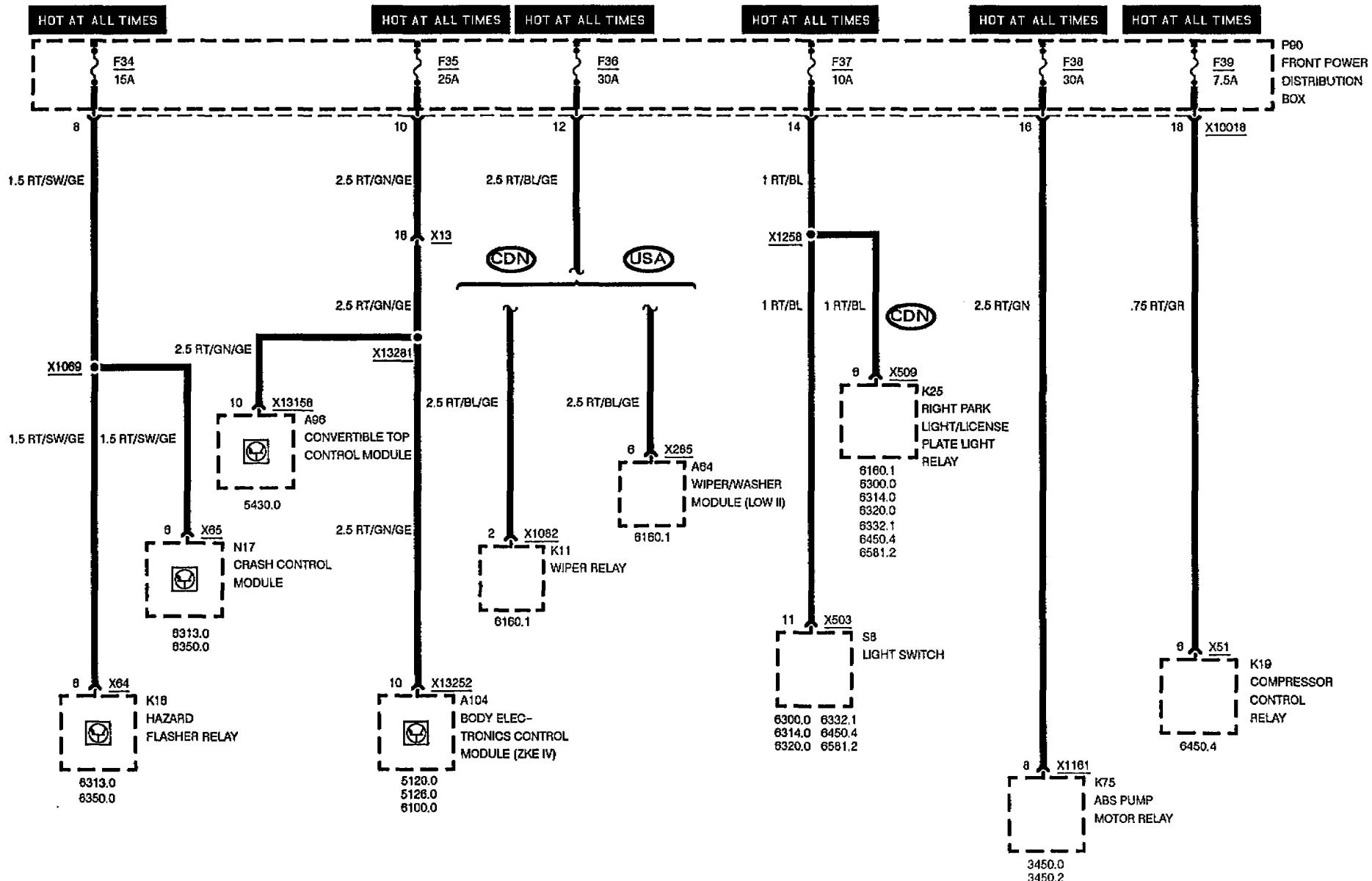


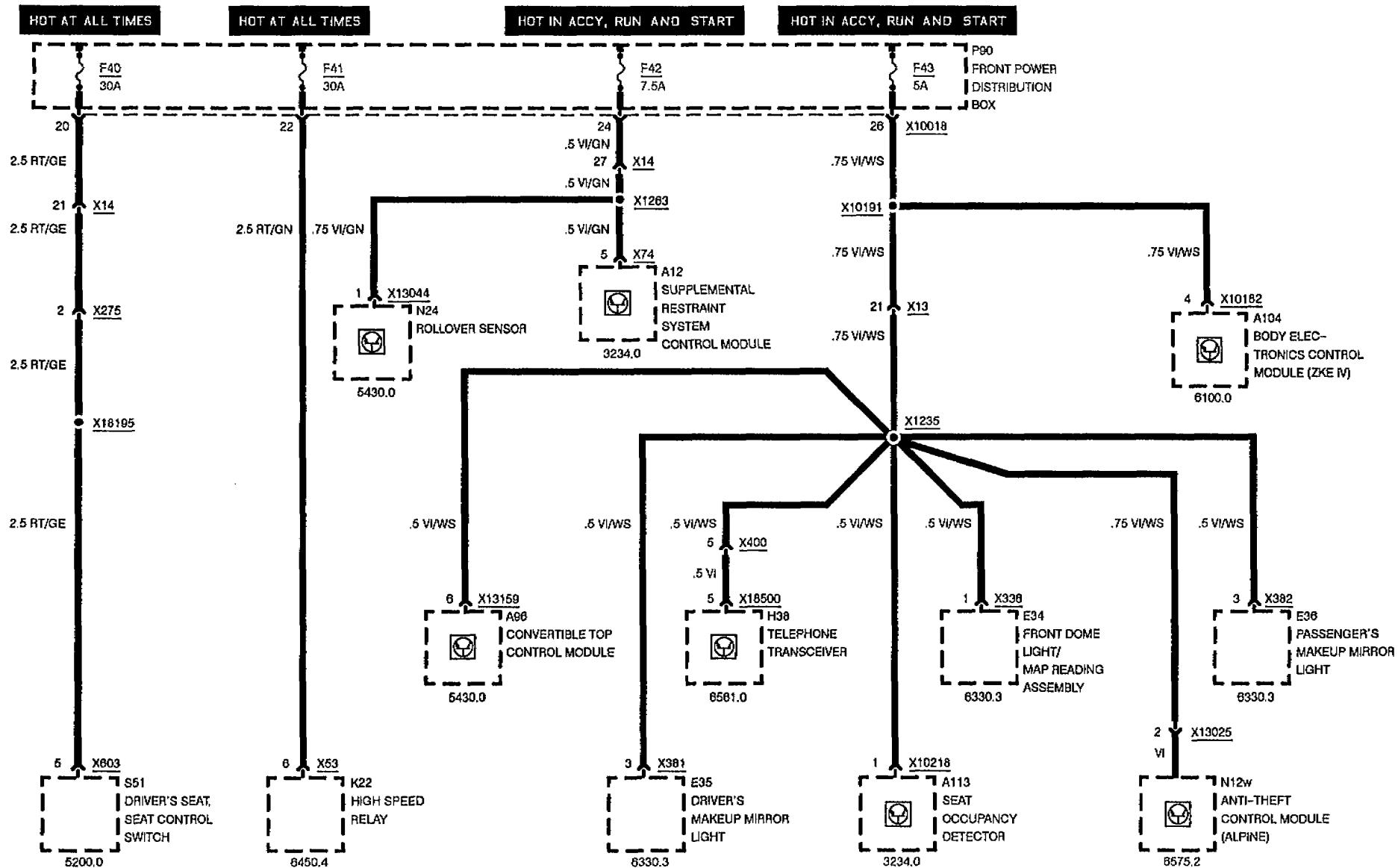


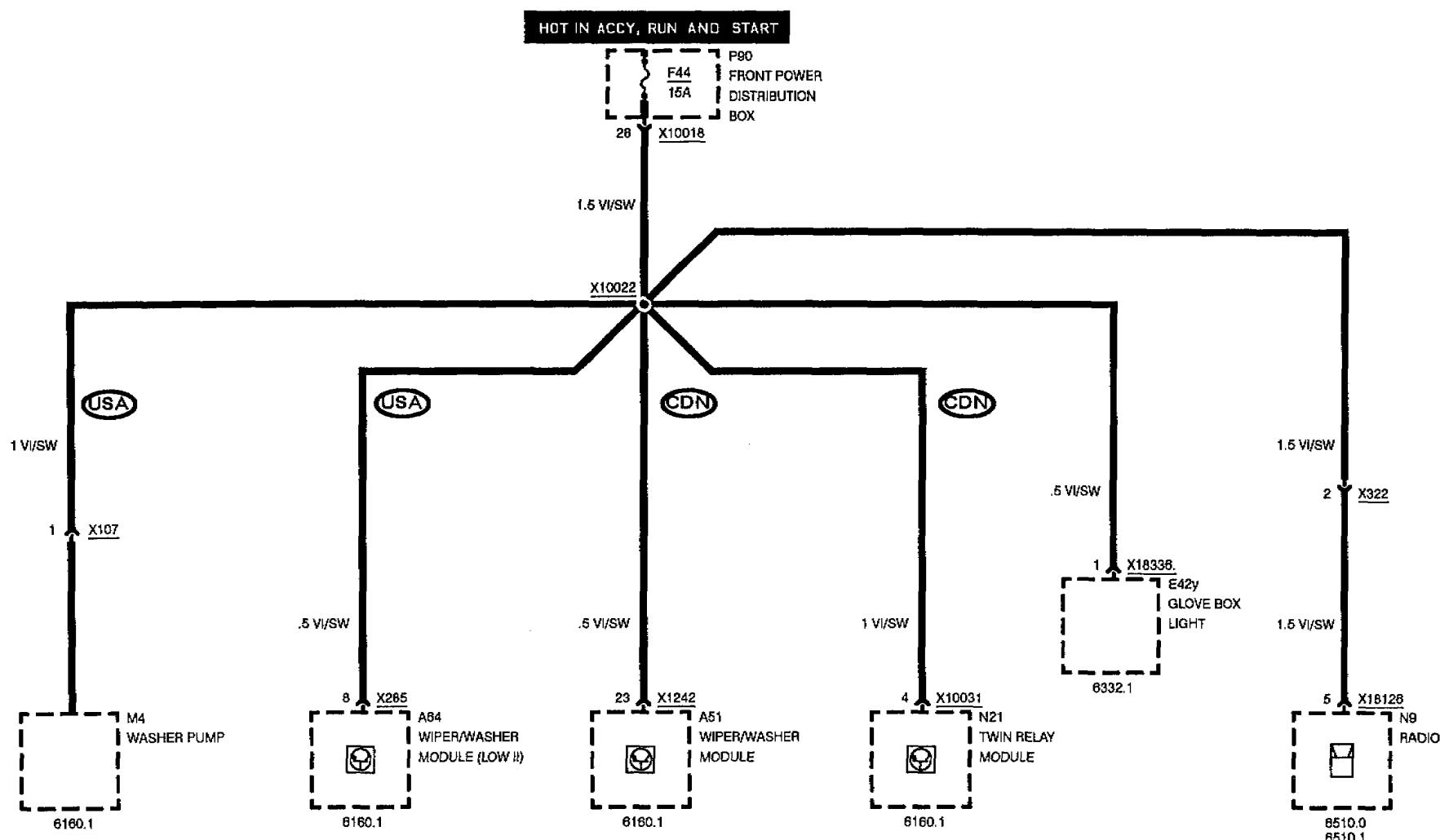
FUSE DETAILS

FUSES 32 AND 33



FUSE DETAILS**FUSES 34, 35, 36, 37, 38, AND 39**







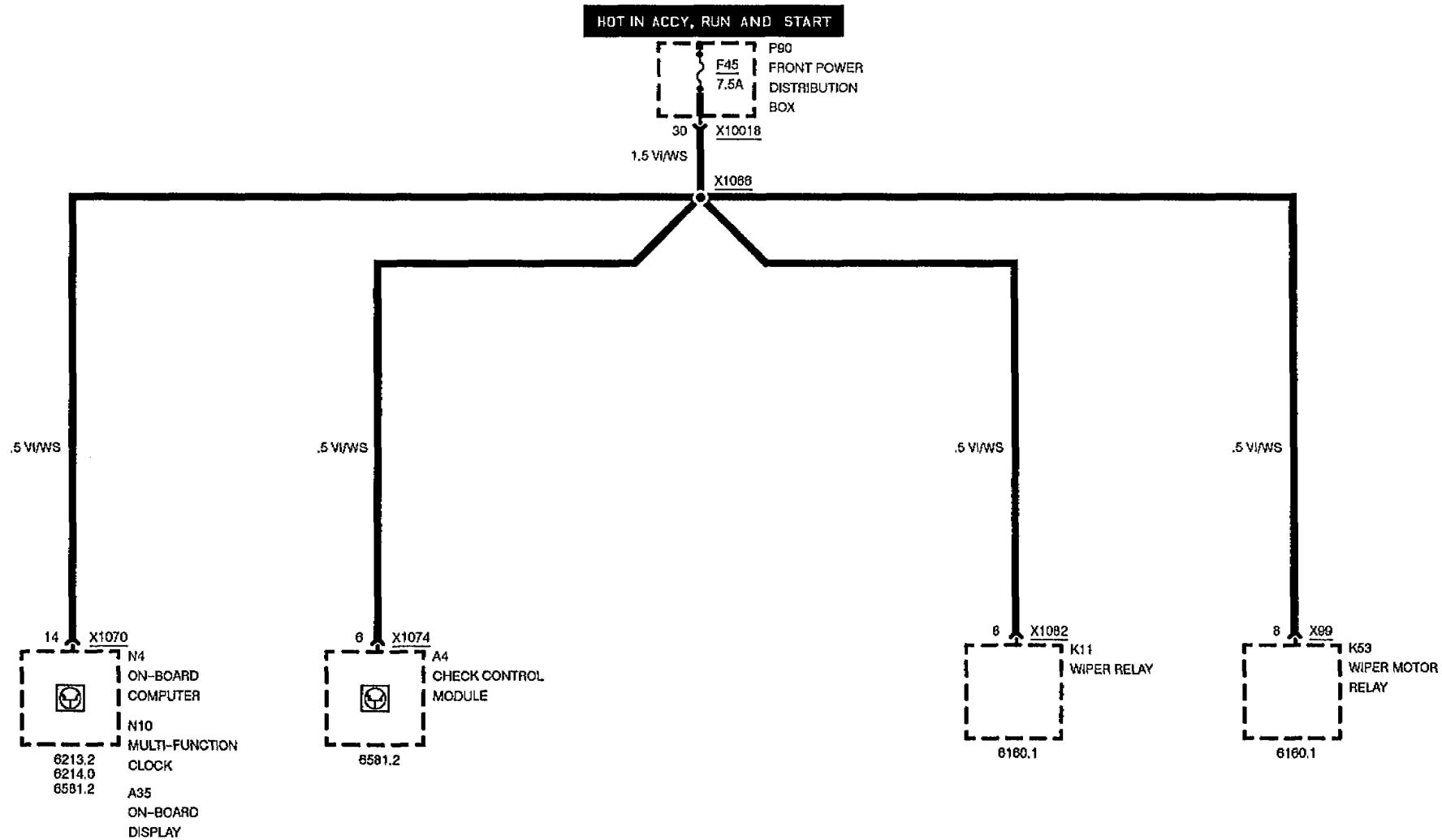
FUSE DETAILS

FUSE 45

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0670-3-15

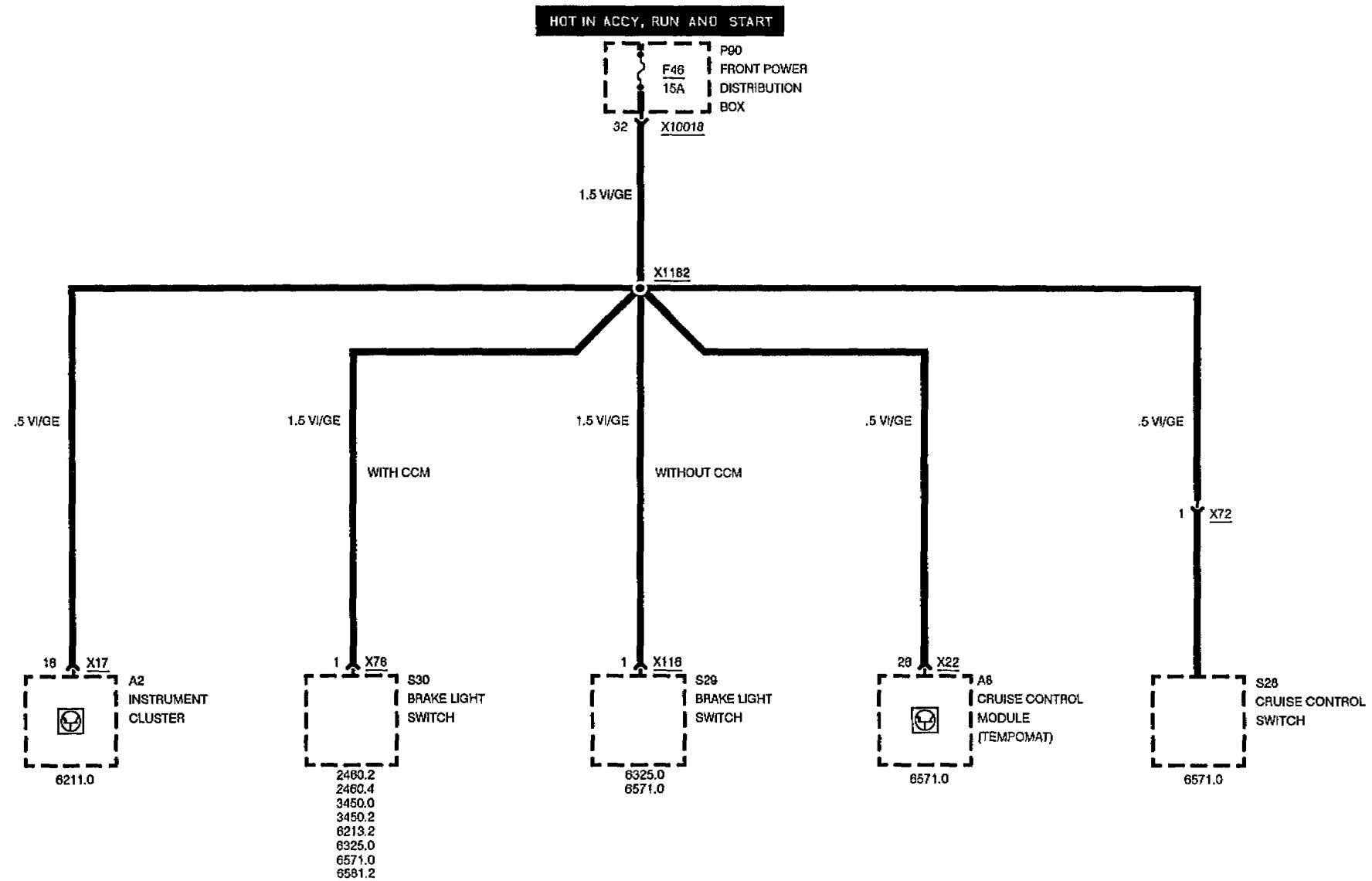
1994





FUSE DETAILS

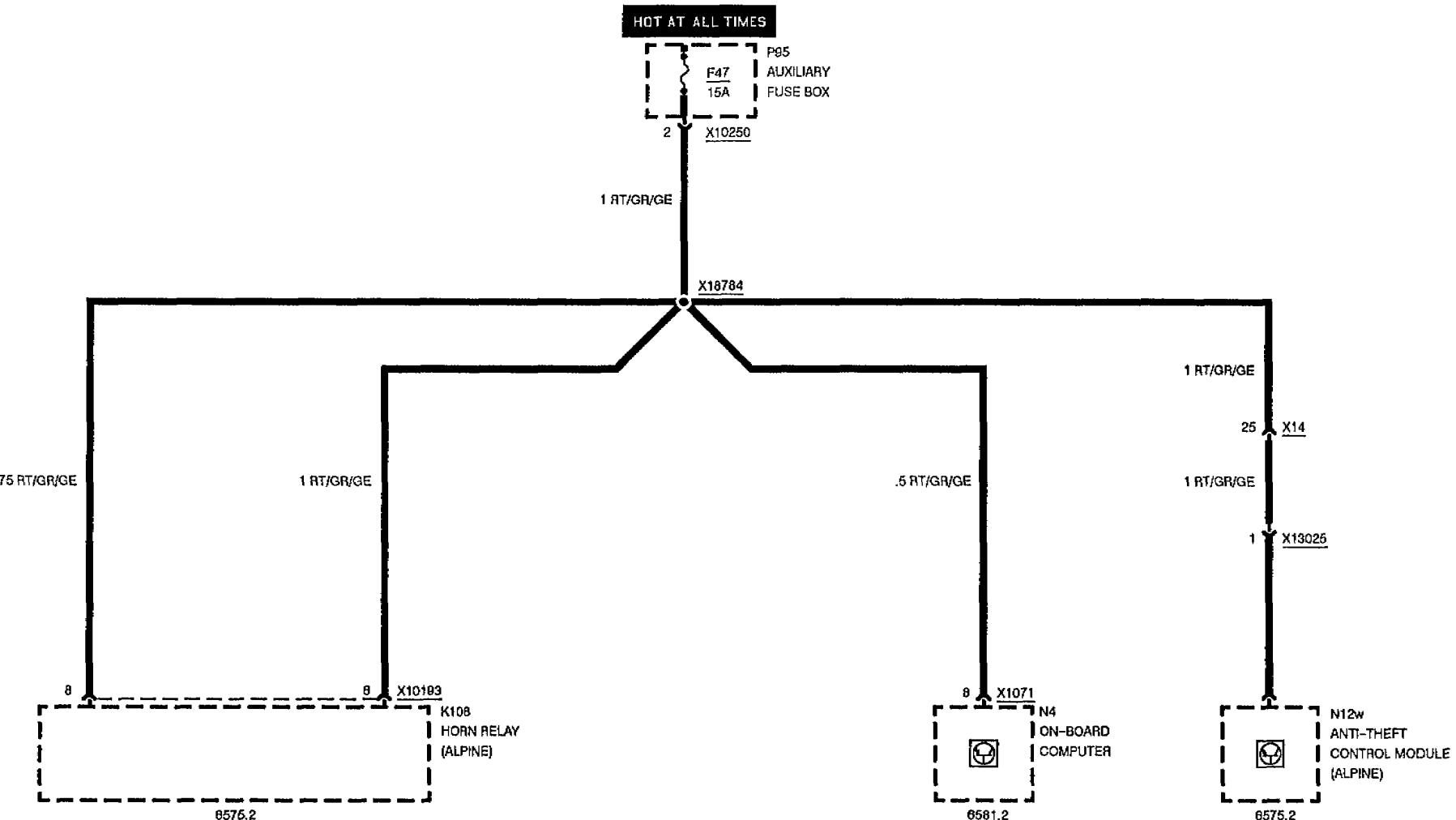
FUSE 46





FUSE DETAILS

FUSE 47





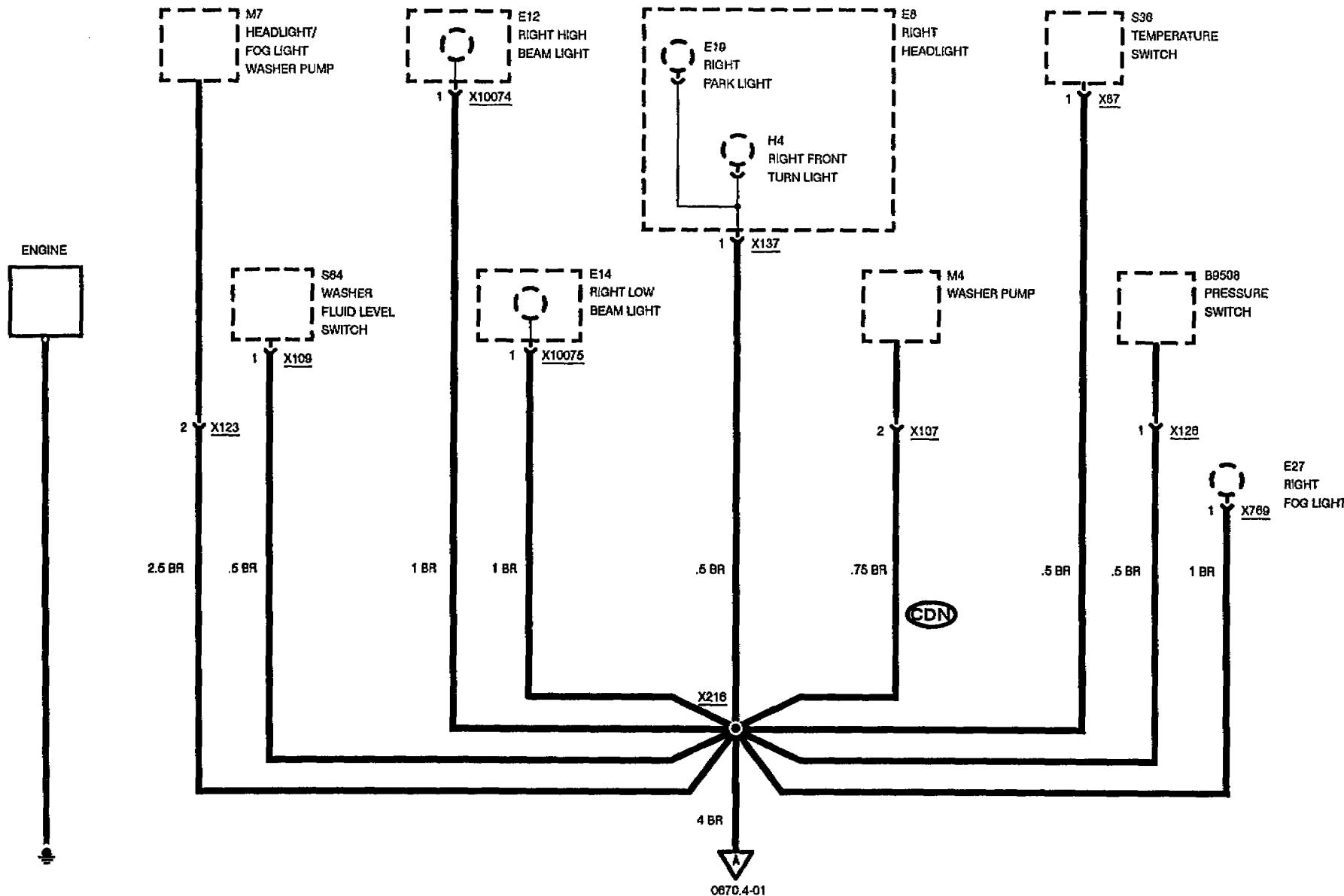
GROUND DISTRIBUTION

GROUND X165

12/94

0670.4-00

1994

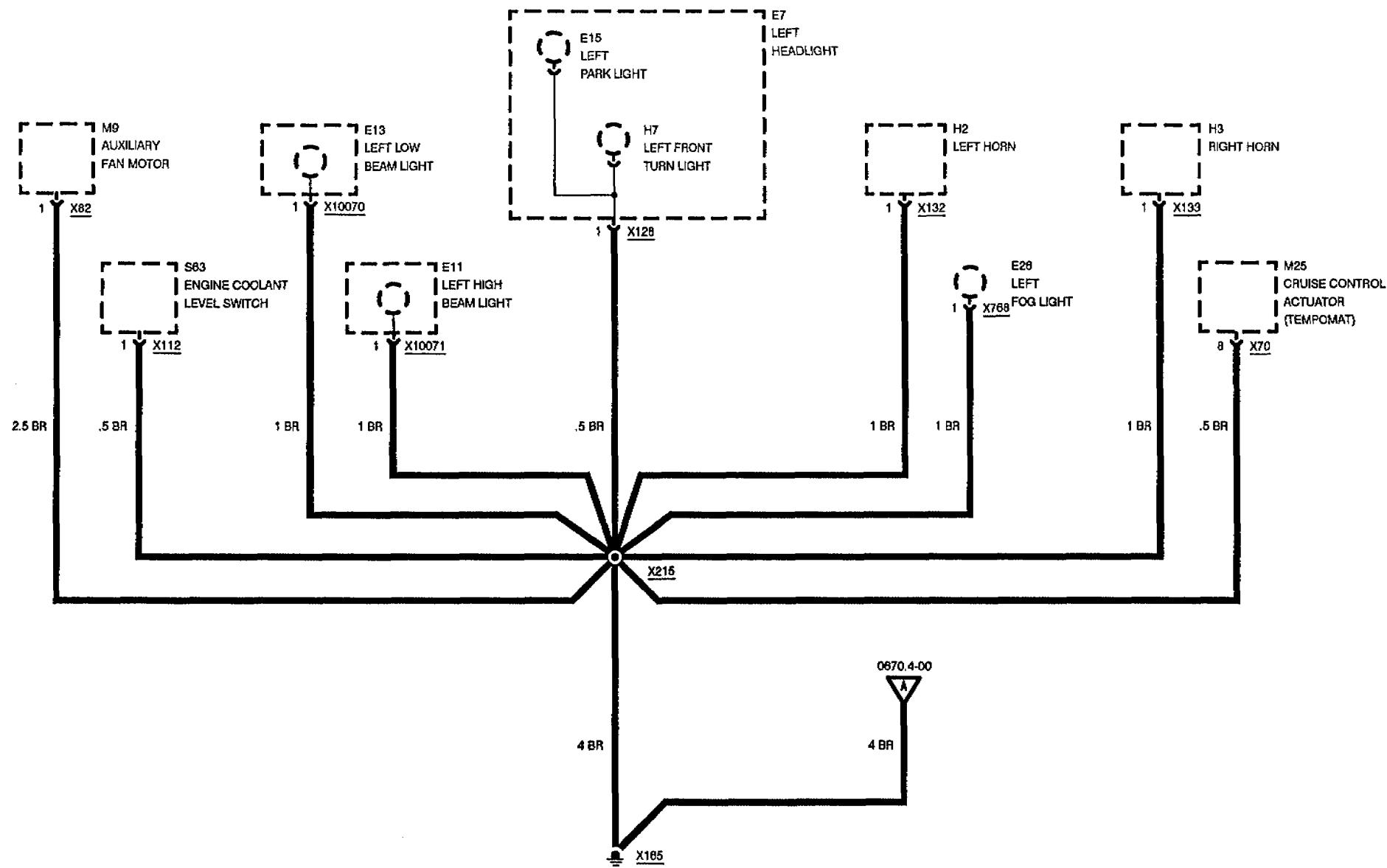


0670.4-01



GROUND DISTRIBUTION

GROUND X165





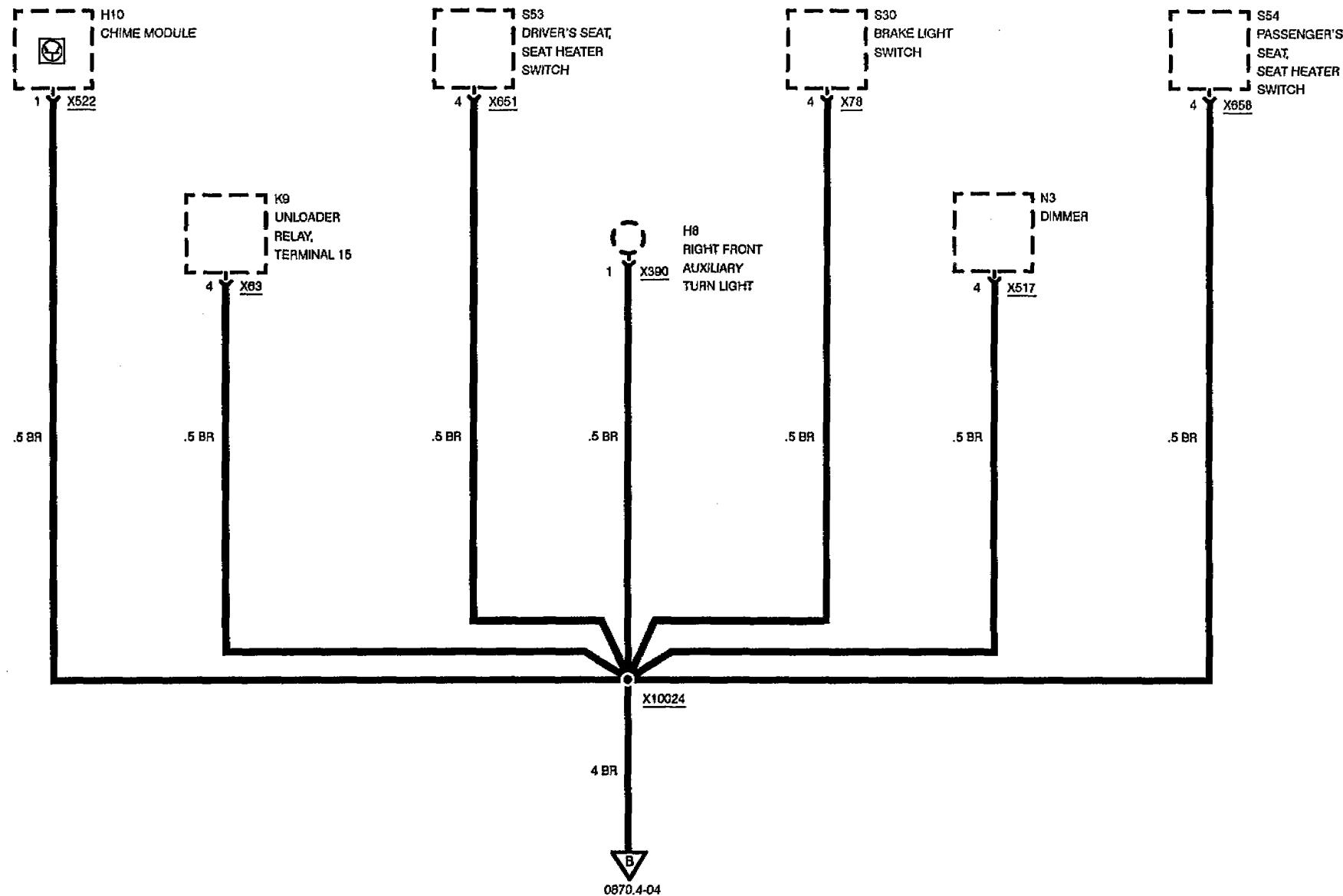
GROUND DISTRIBUTION

GROUND X173

09/93

0670 4-02

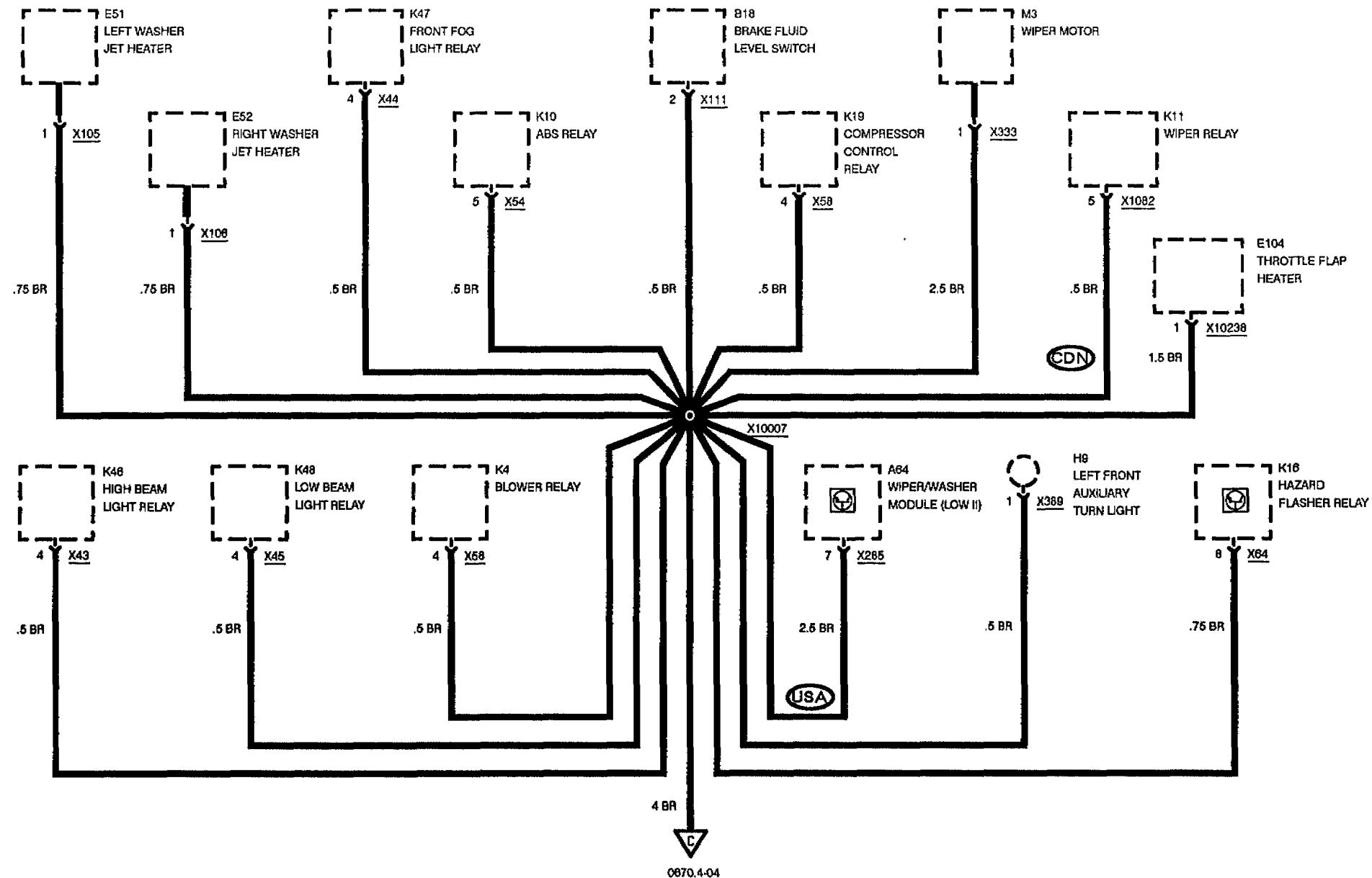
1994





GROUND DISTRIBUTION

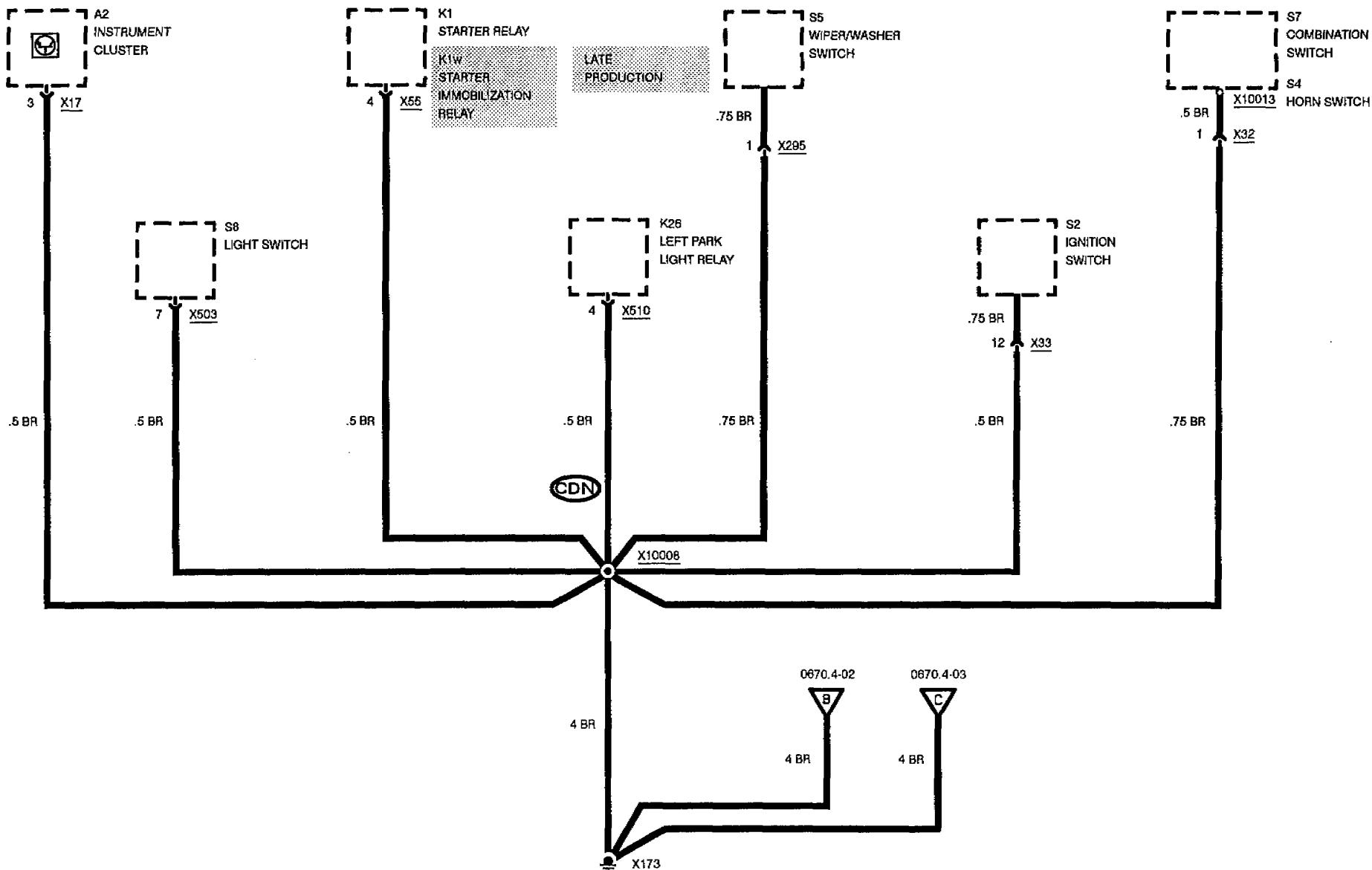
GROUND X173



0670.4-04

GROUND DISTRIBUTION

GROUND X173





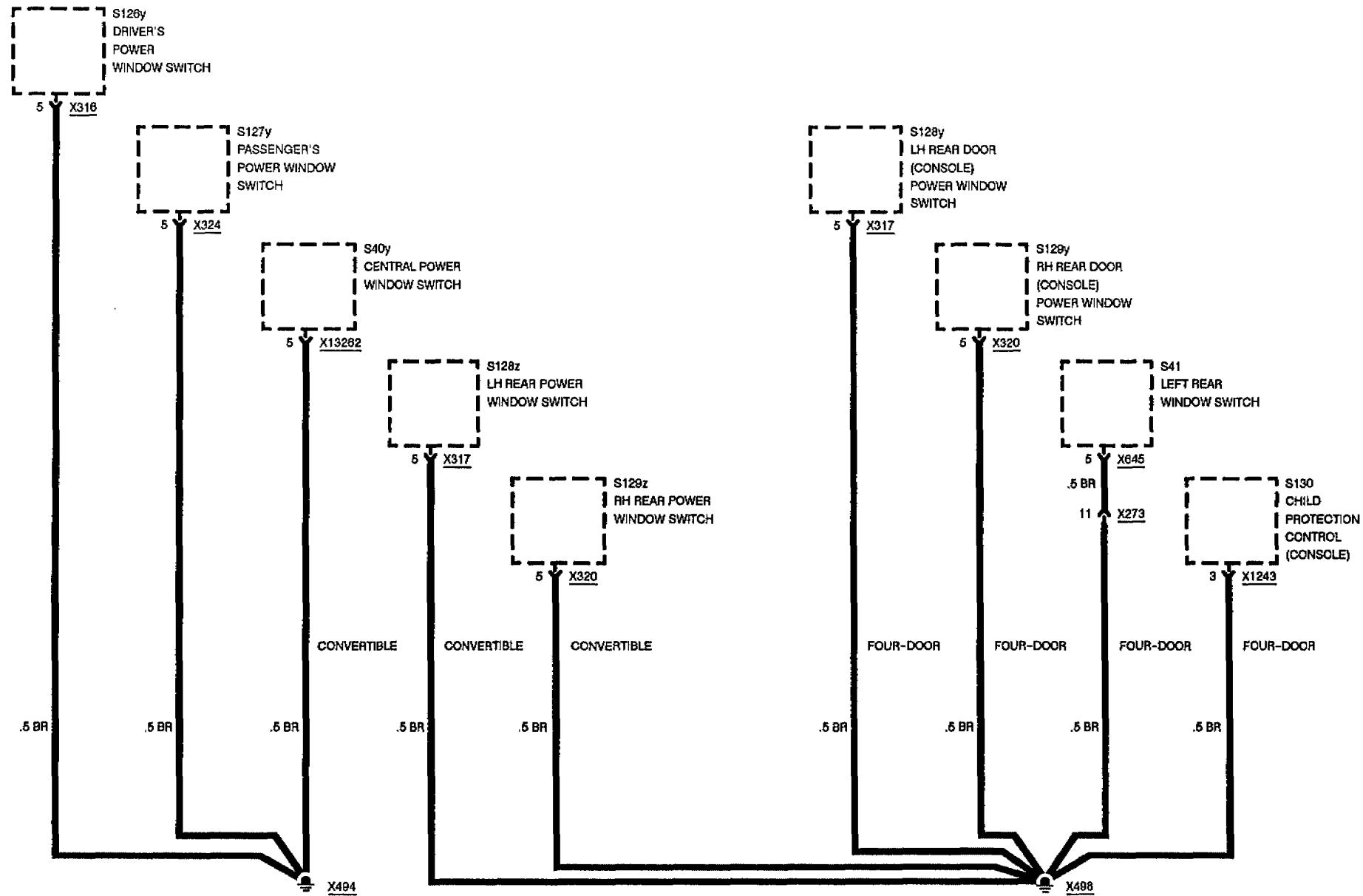
GROUND DISTRIBUTION

GROUNDS X494 AND X498

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GROUND DISTRIBUTION

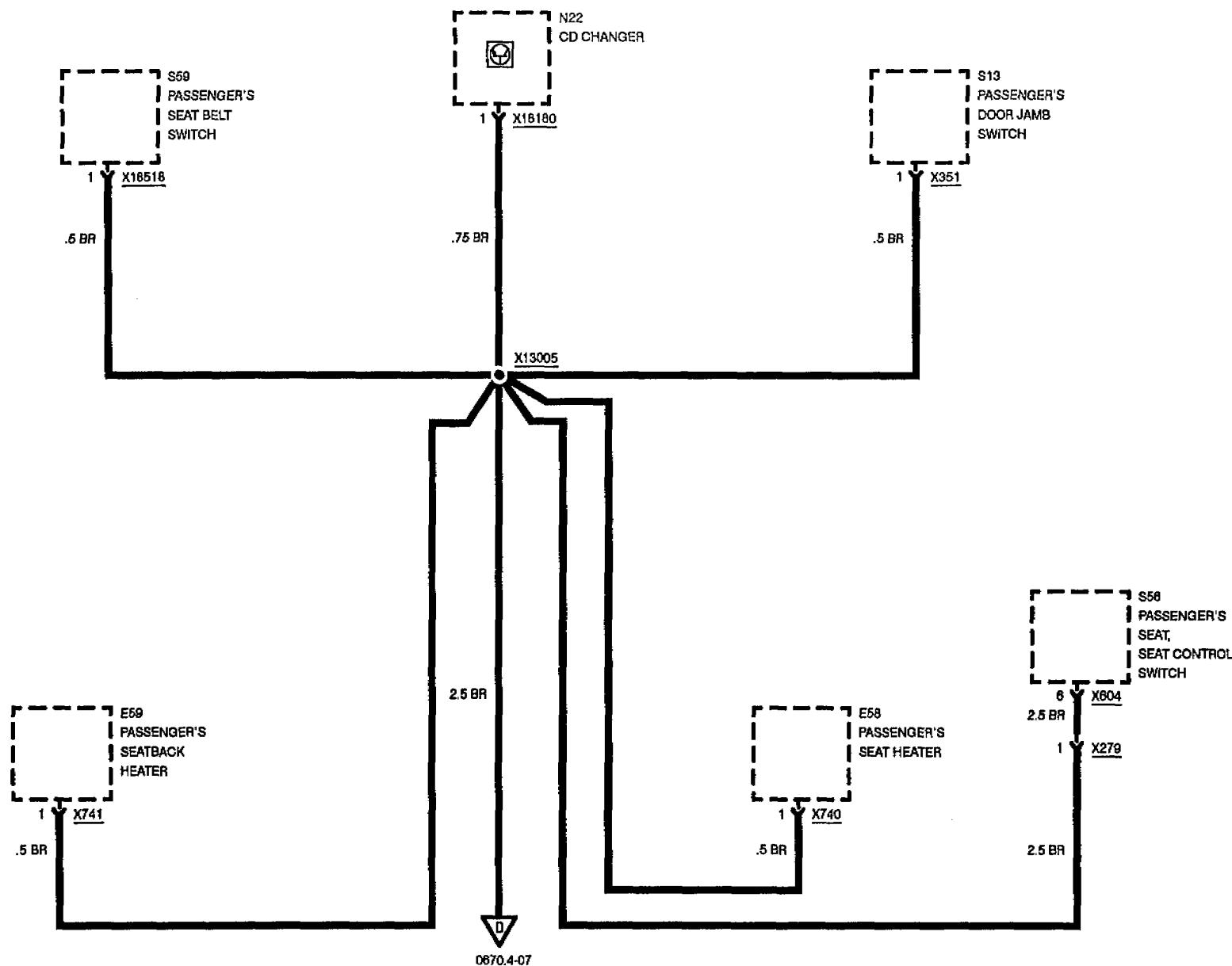
GROUND X495

TWO-DOOR

12/94

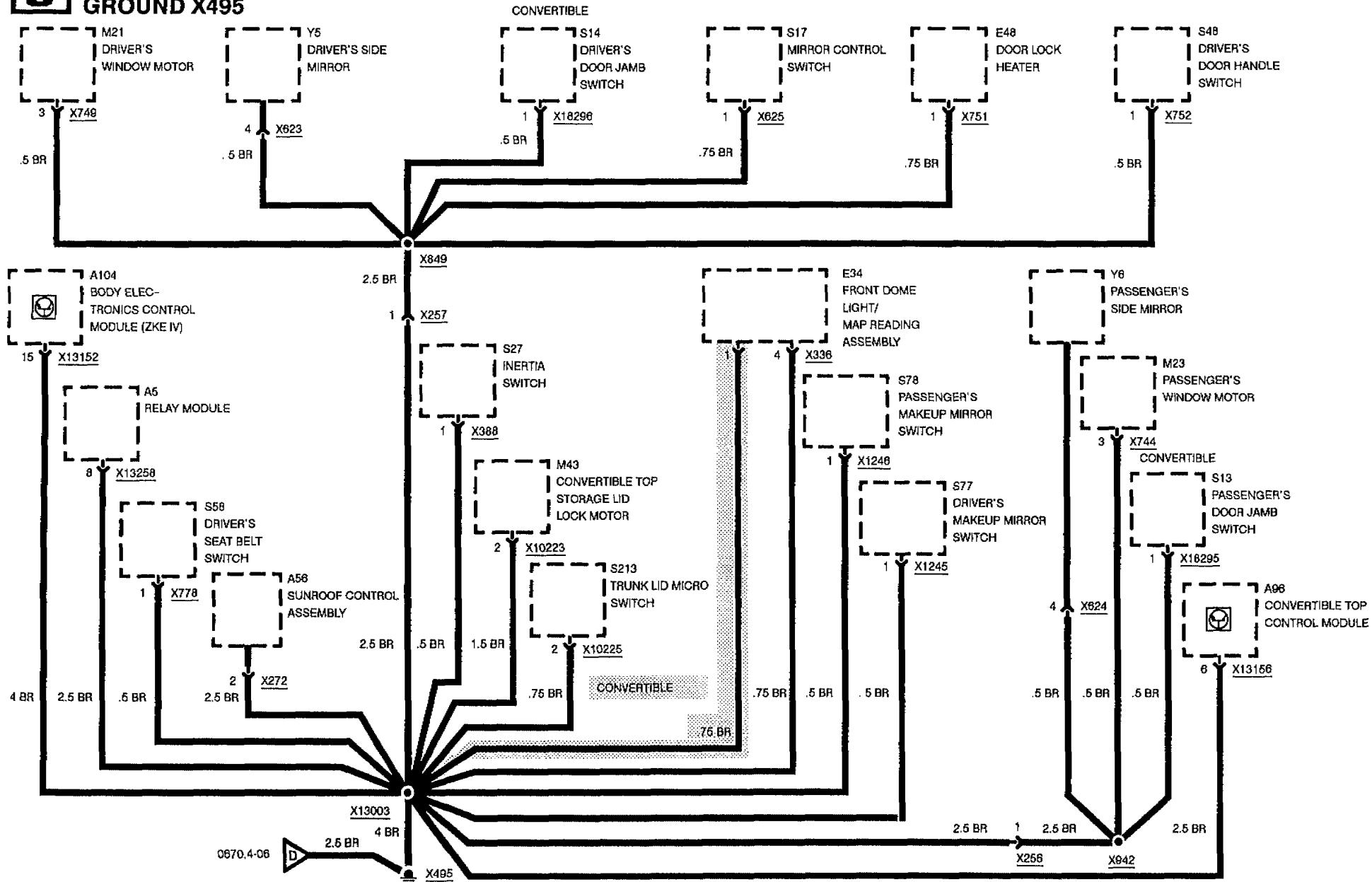
0670.4-06

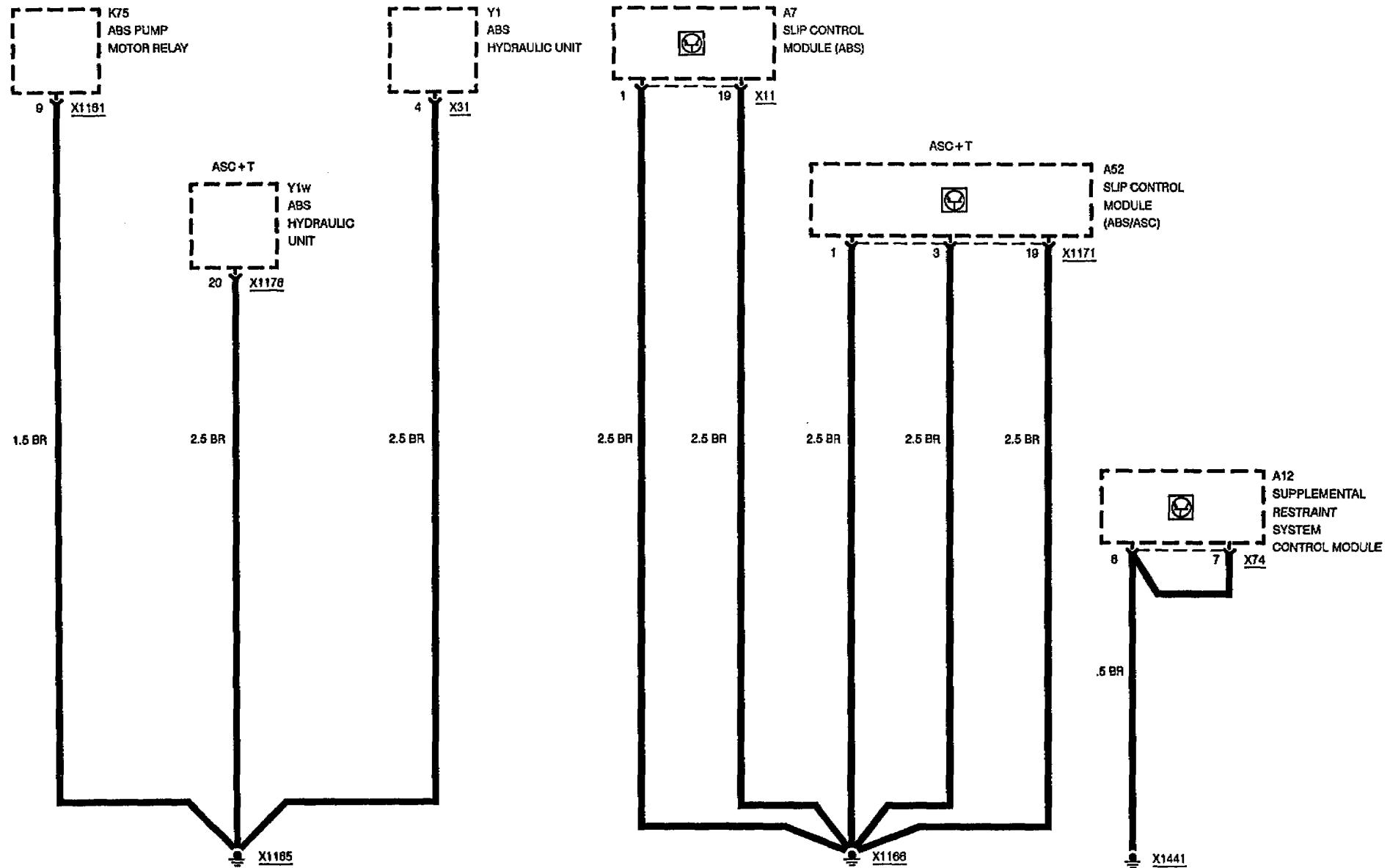
1994



BMW 3 GROUND DISTRIBUTION

GROUND X495



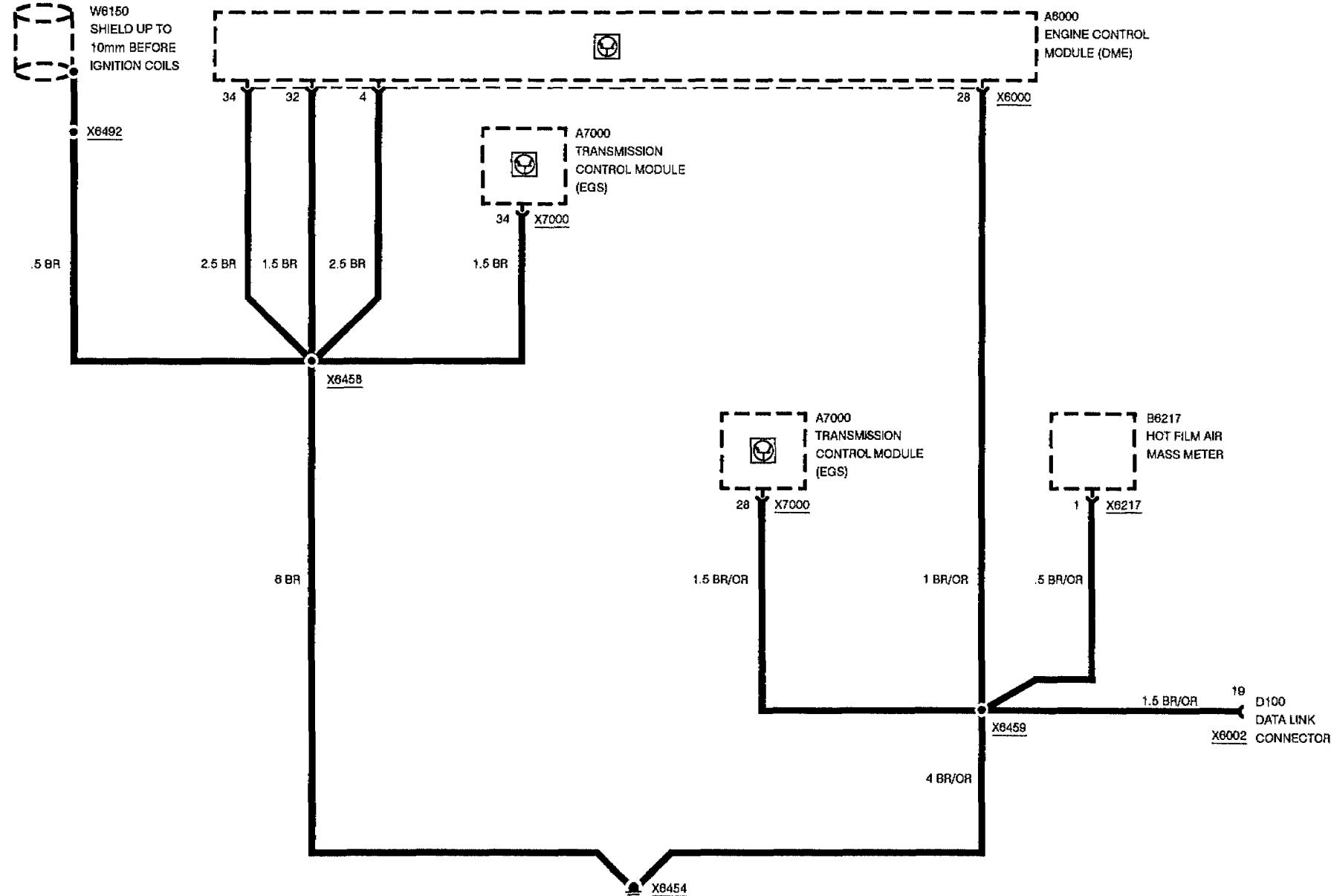
GROUND DISTRIBUTION**3 GROUNDS X1165, X1166, AND X1441**

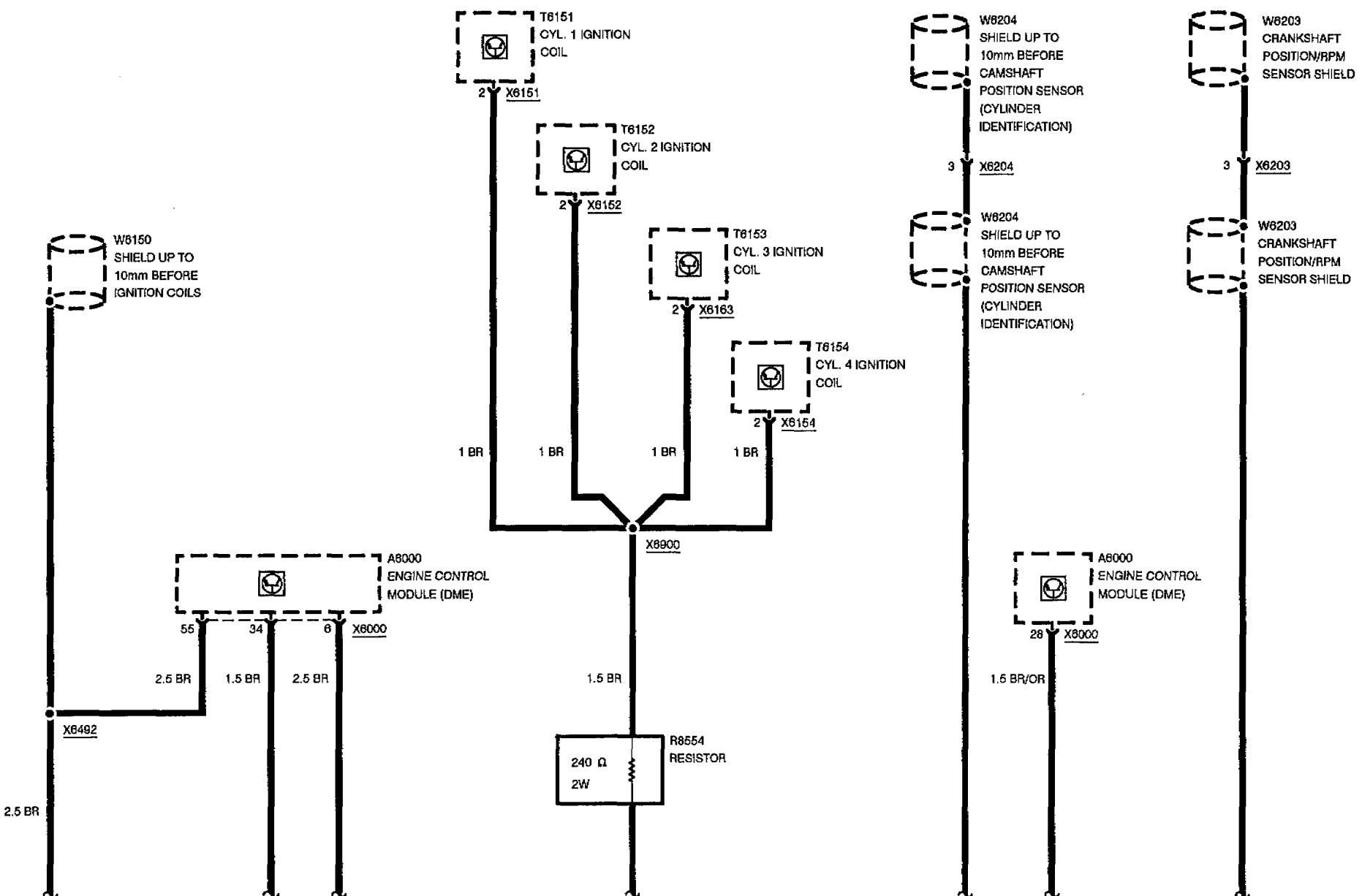


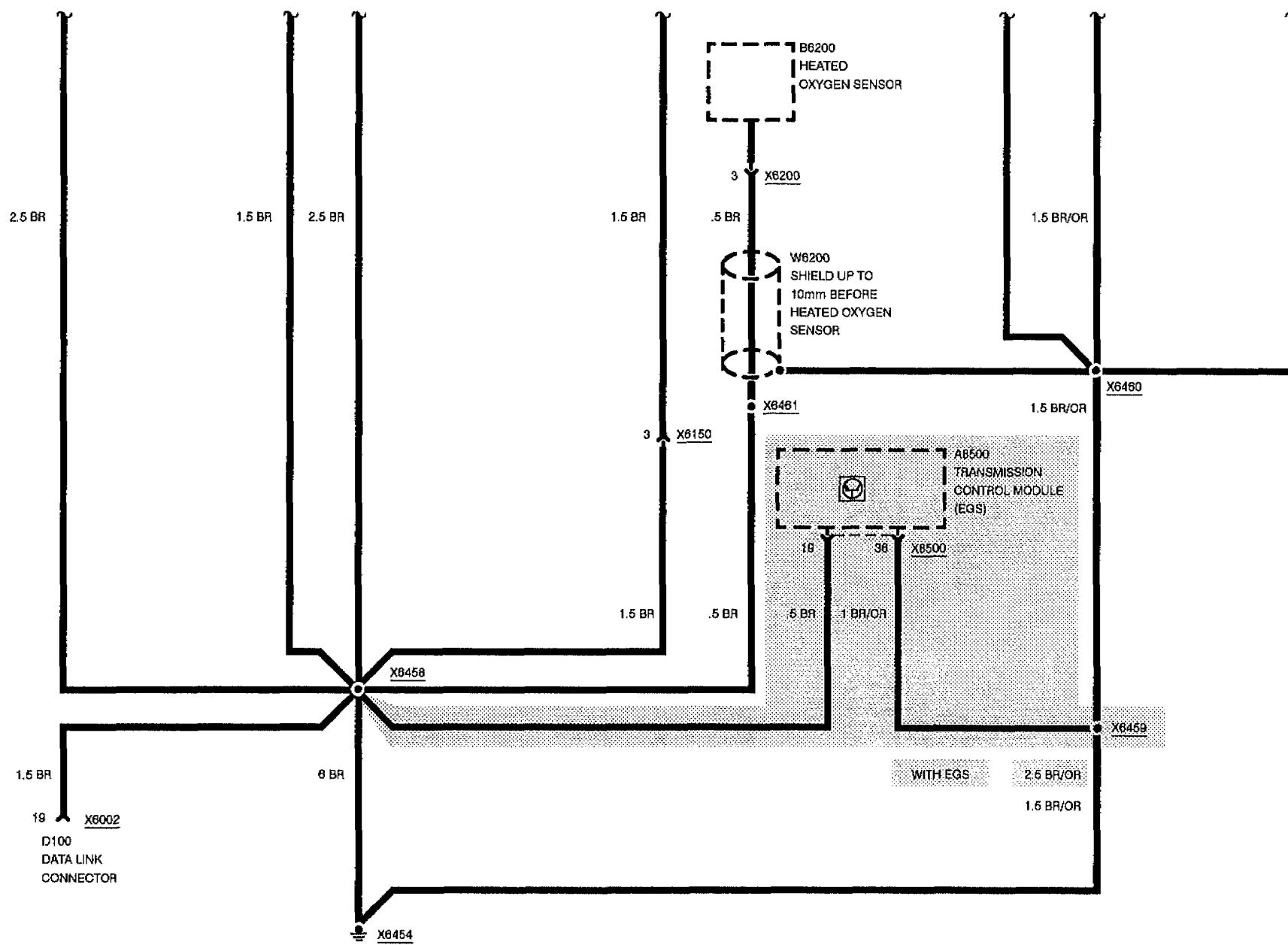
GROUND DISTRIBUTION

320i

GROUND X6454









GROUND DISTRIBUTION

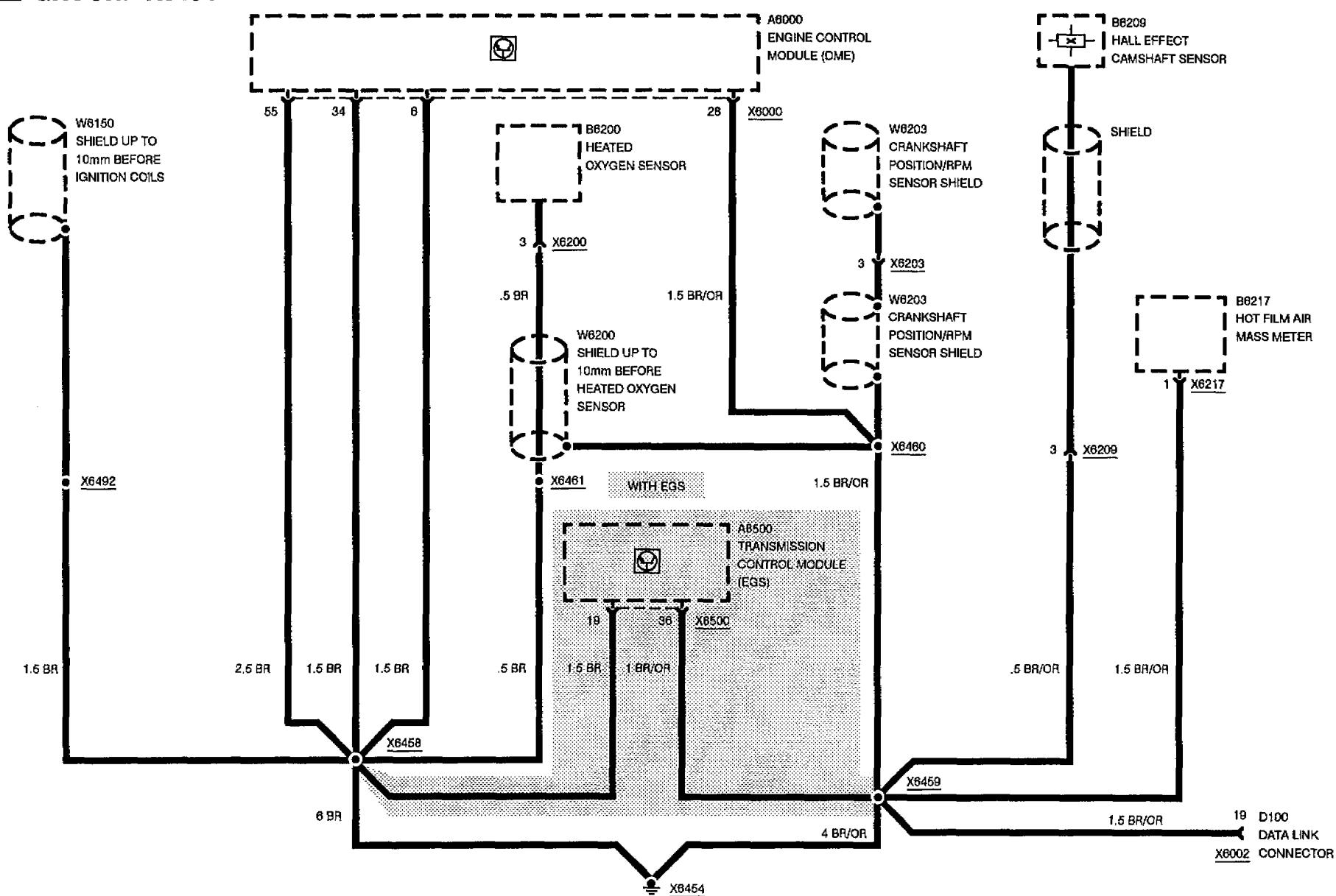
GROUND X6454

325i

09/93

0670.4-12

1994





GROUND DISTRIBUTION

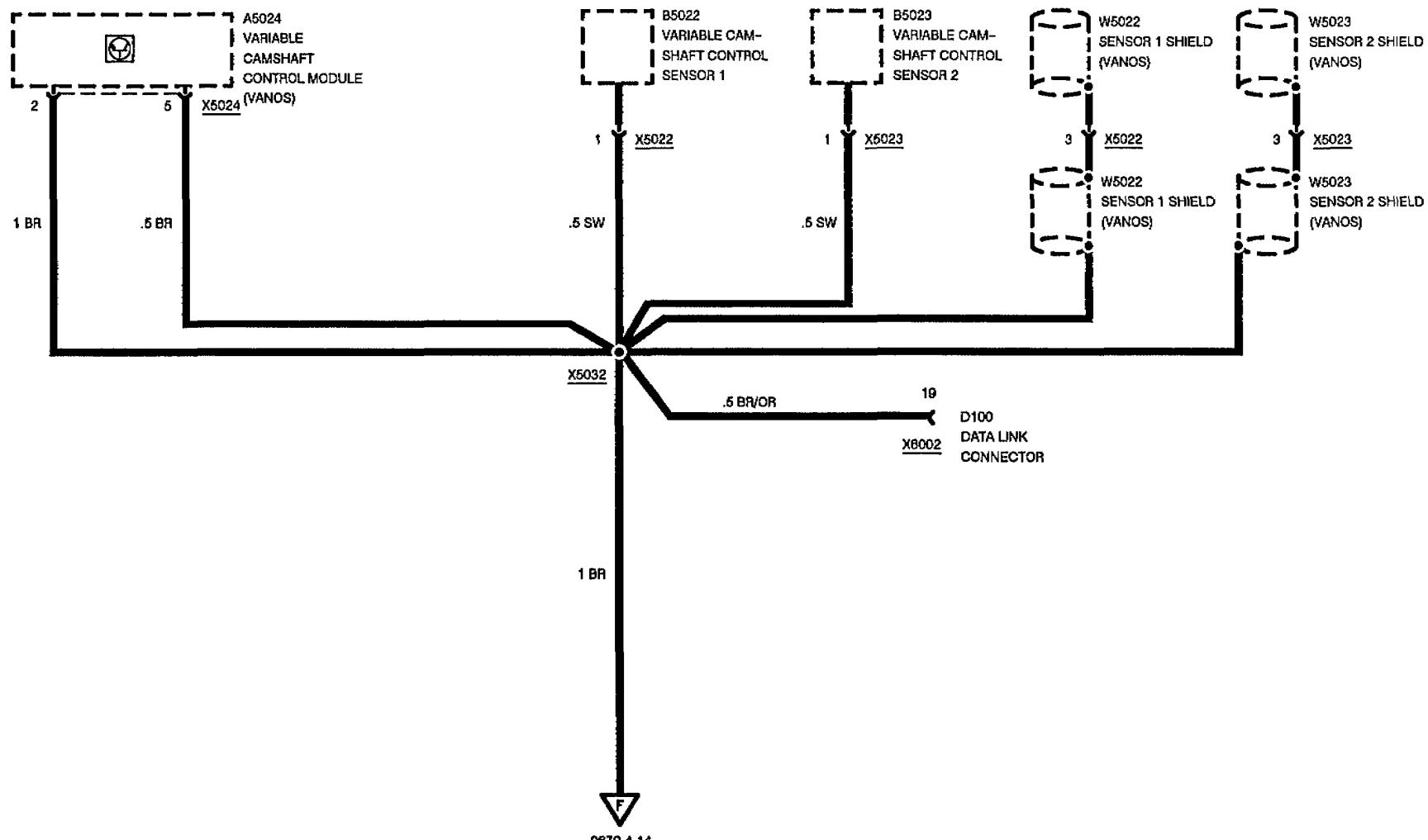
GROUND X6454

M3

09/93

0670.4-13

1994





GROUND DISTRIBUTION

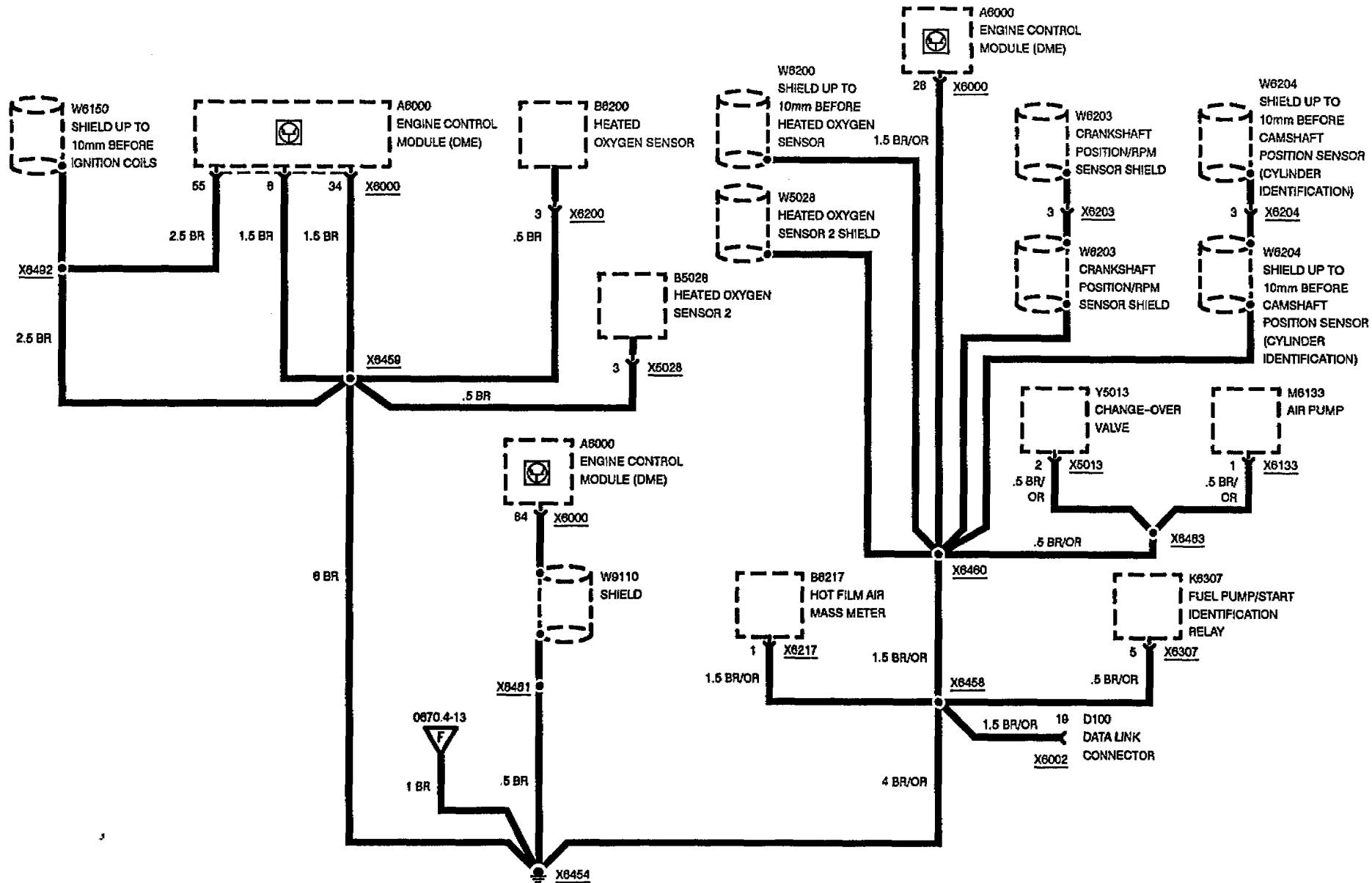
GROUND X6454

M3

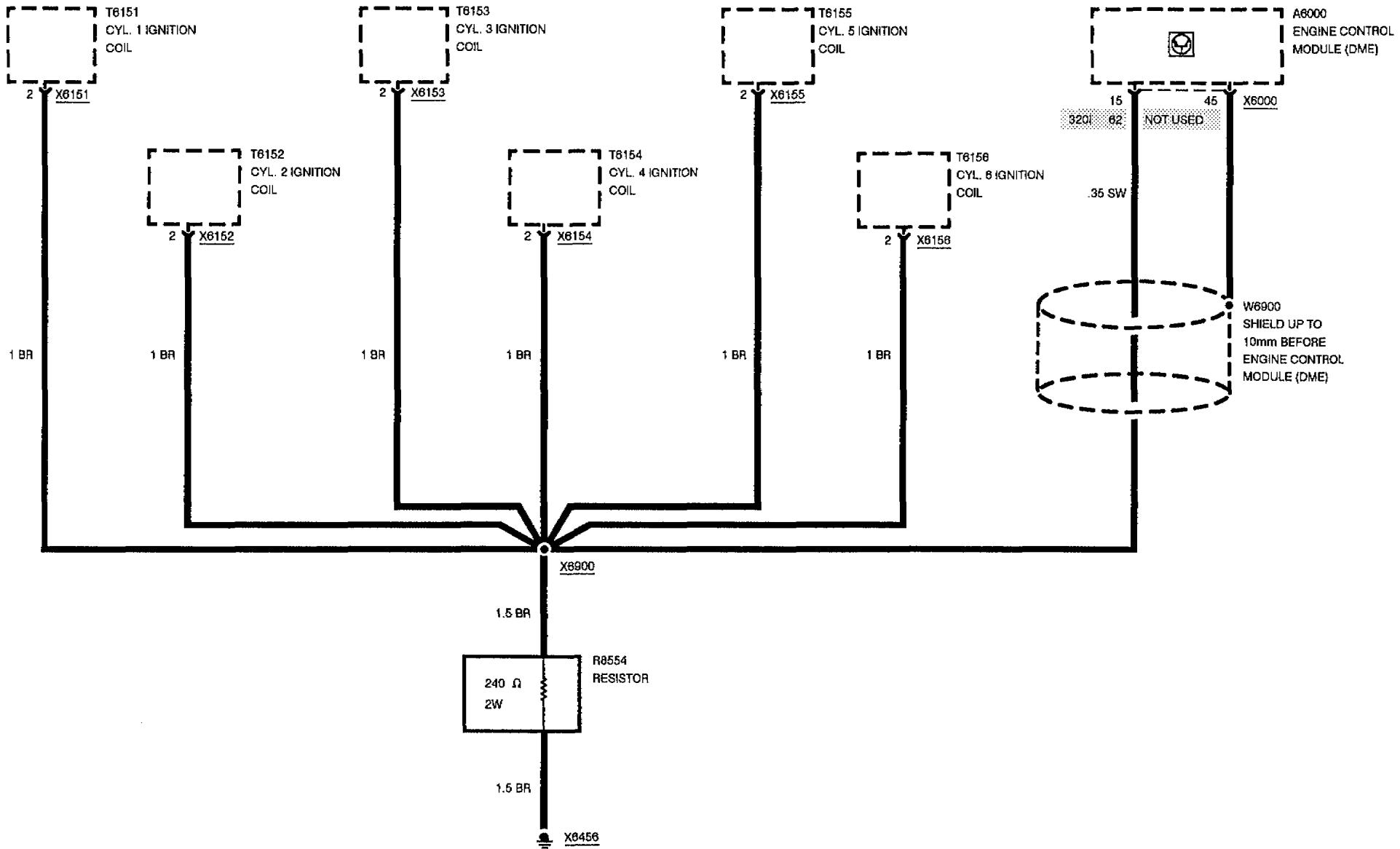
12/94

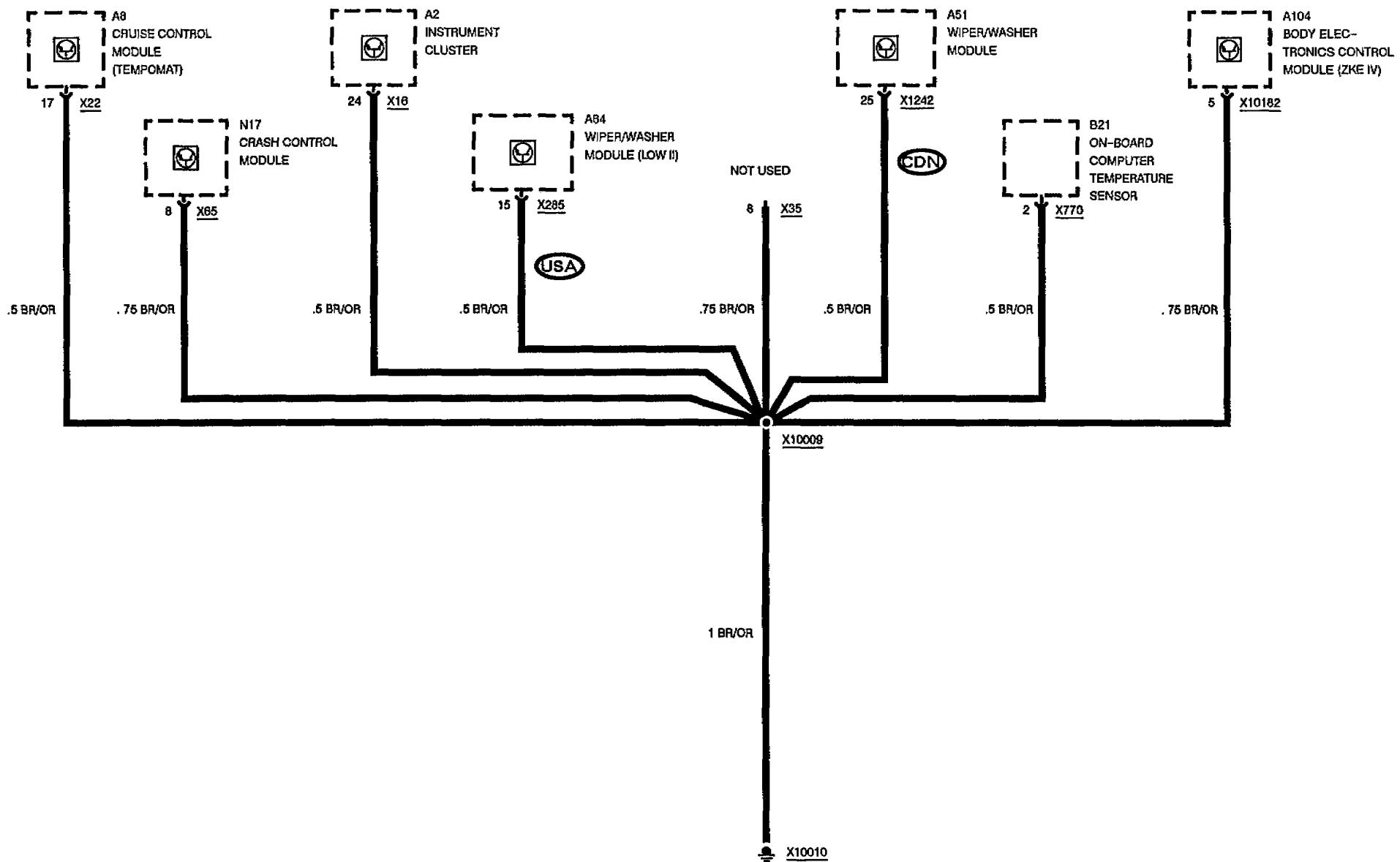
0670.4-14

1994



BMW

3**GROUND DISTRIBUTION****GROUND X6456****320i, 325i, M3****CDN**

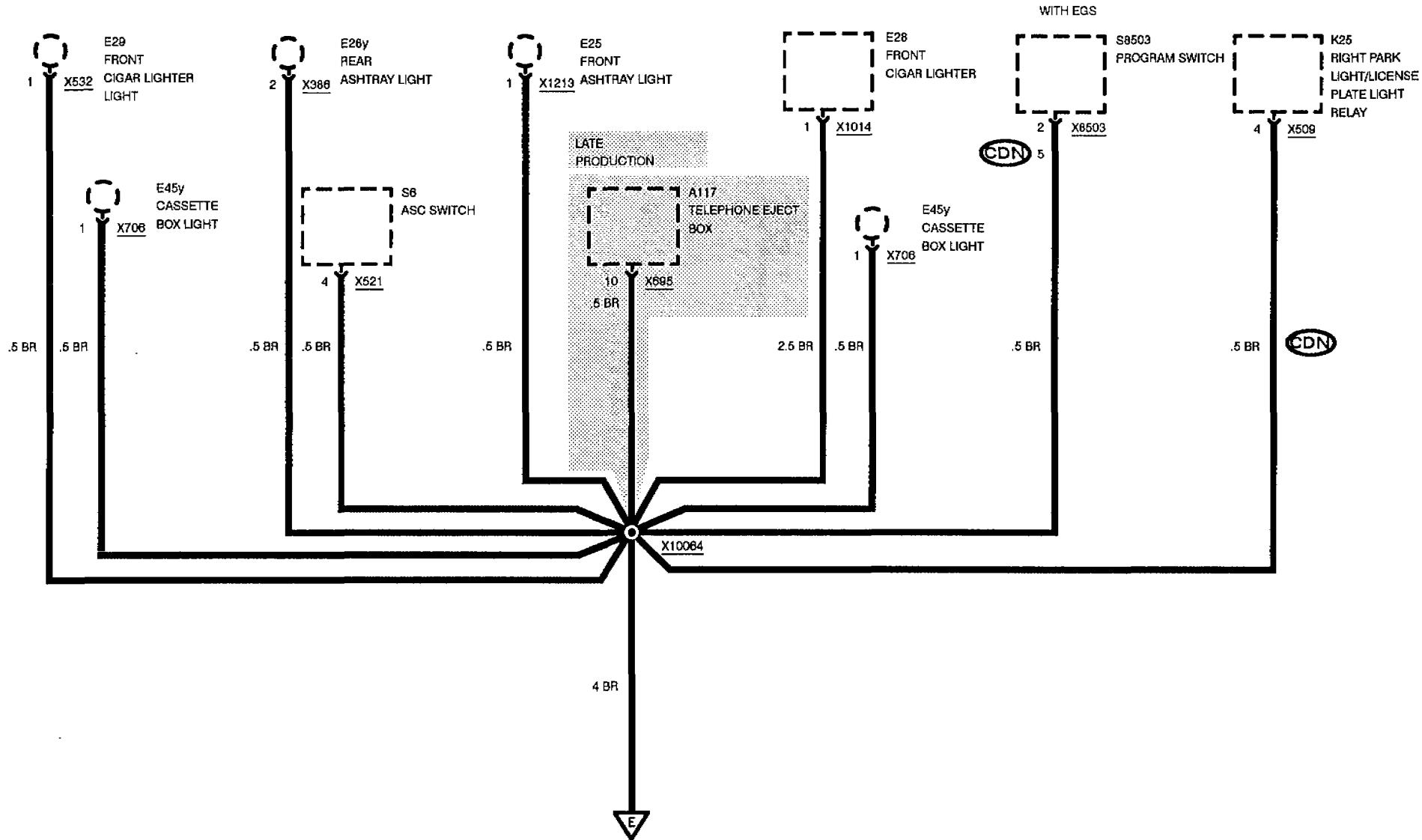
GROUND DISTRIBUTION**GROUND X10010**



GROUND DISTRIBUTION

GROUND X10012

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1994

0670.4-17



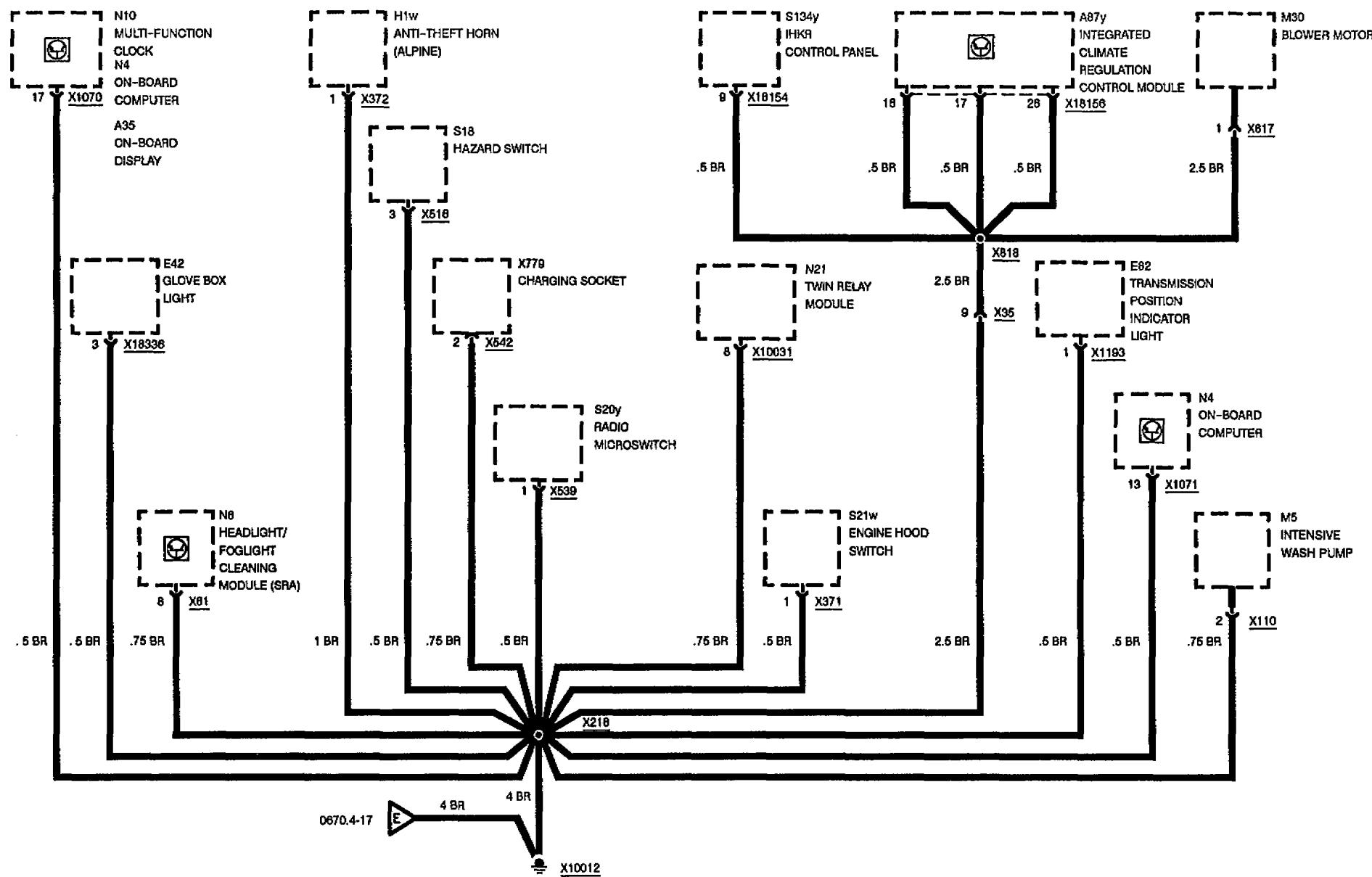
GROUND DISTRIBUTION

GROUND X10012

09/93

0670.4-18

1994

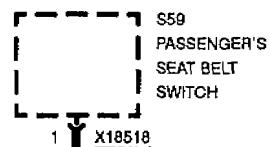




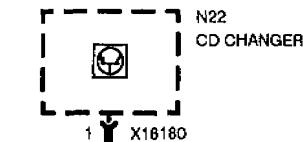
GROUND DISTRIBUTION

GROUND X13004

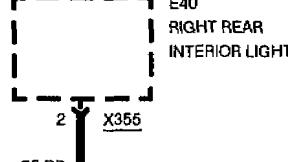
FOUR-DOOR



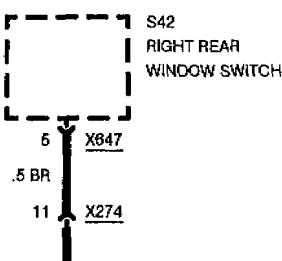
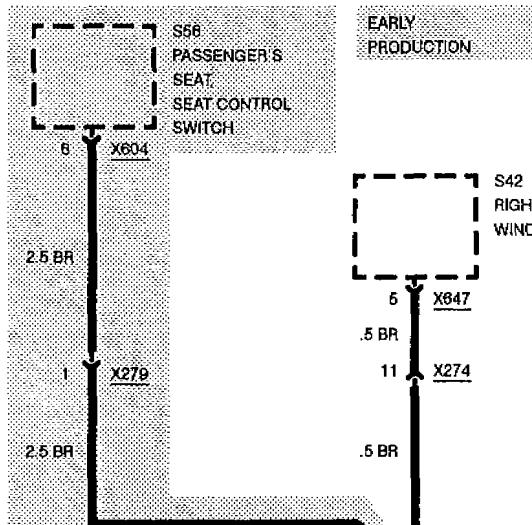
.5 BR



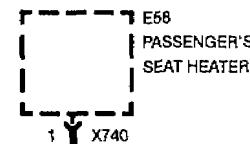
.75 BR



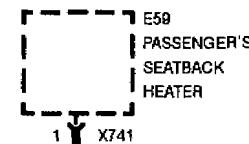
.75 BR



.5 BR

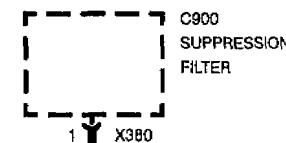


.5 BR



.5 BR

X13005



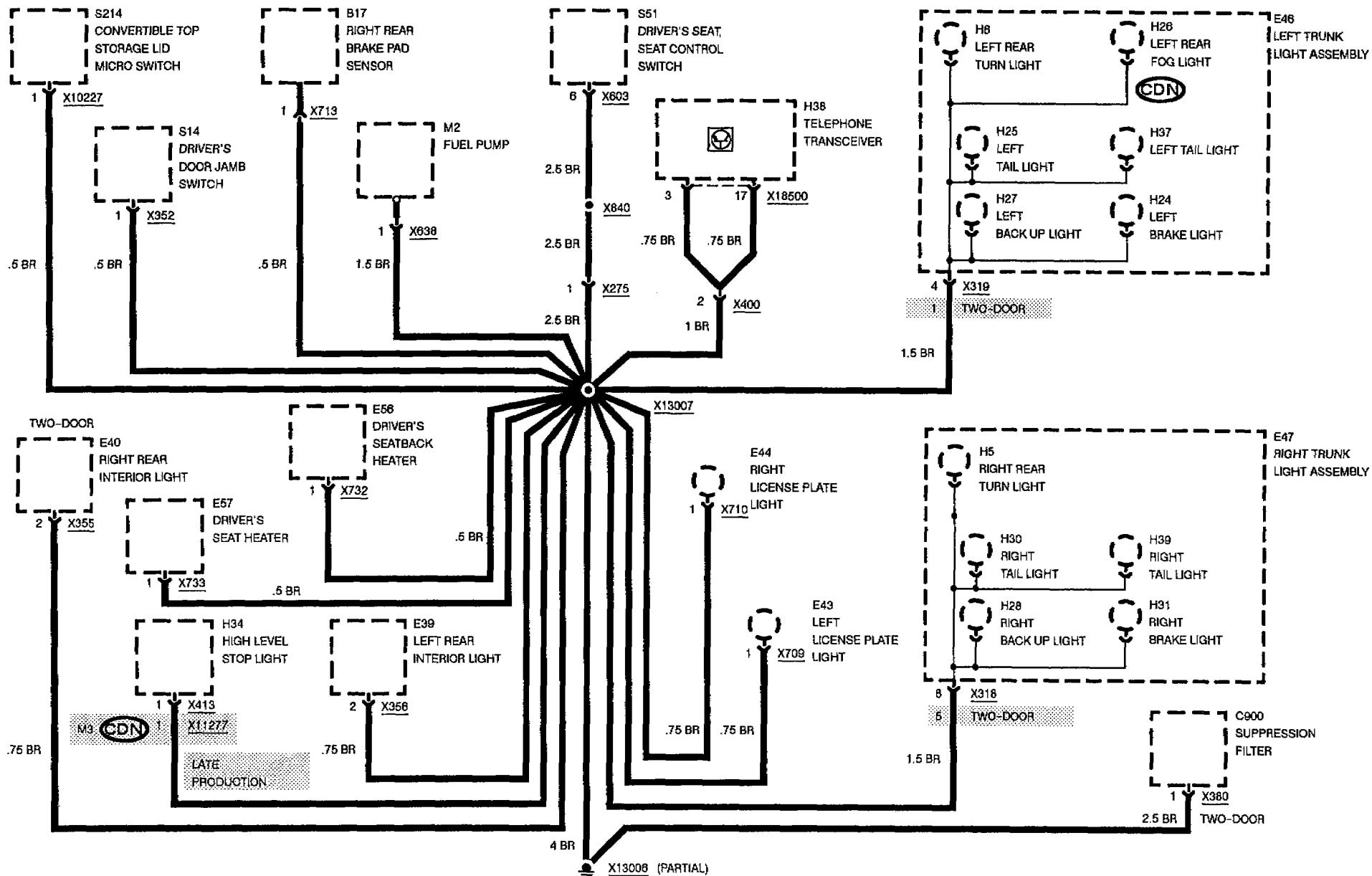
2.5 BR

2.5 BR

X13004

GROUND DISTRIBUTION

GROUND X13006

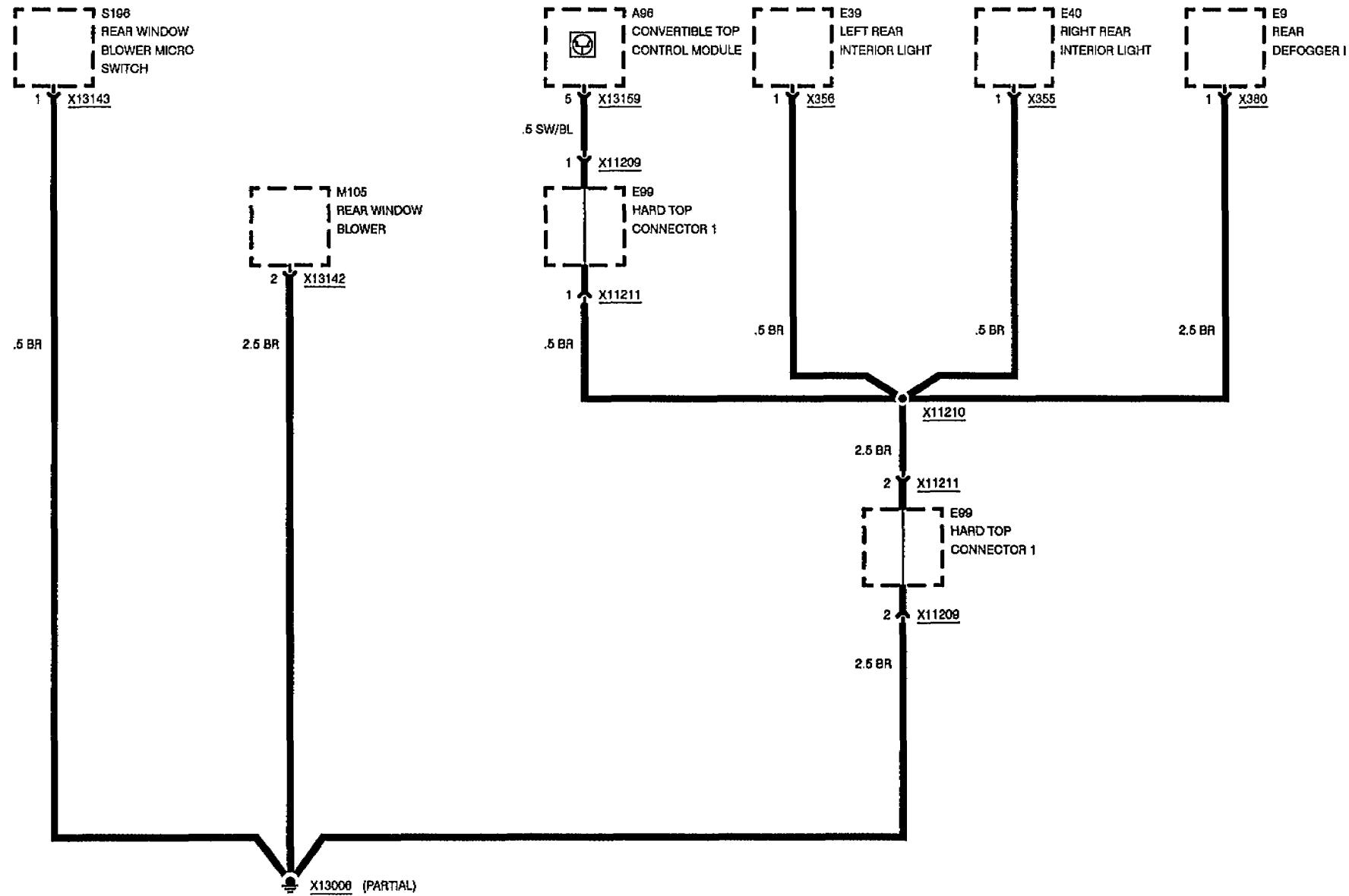




GROUND DISTRIBUTION

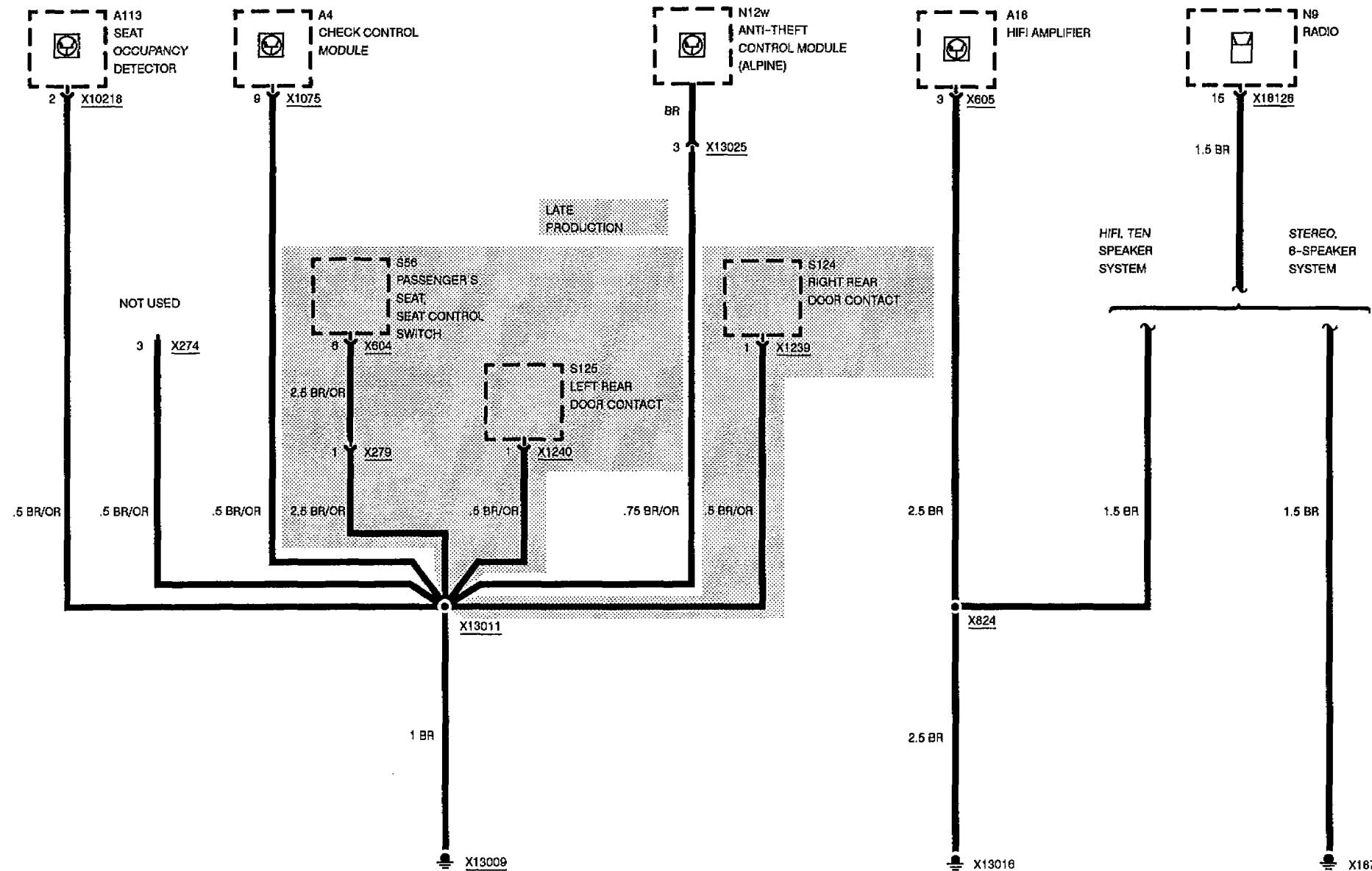
GROUND X13006

CONVERTIBLE



GROUND DISTRIBUTION

GROUNDS X13009, X13016, AND X18723



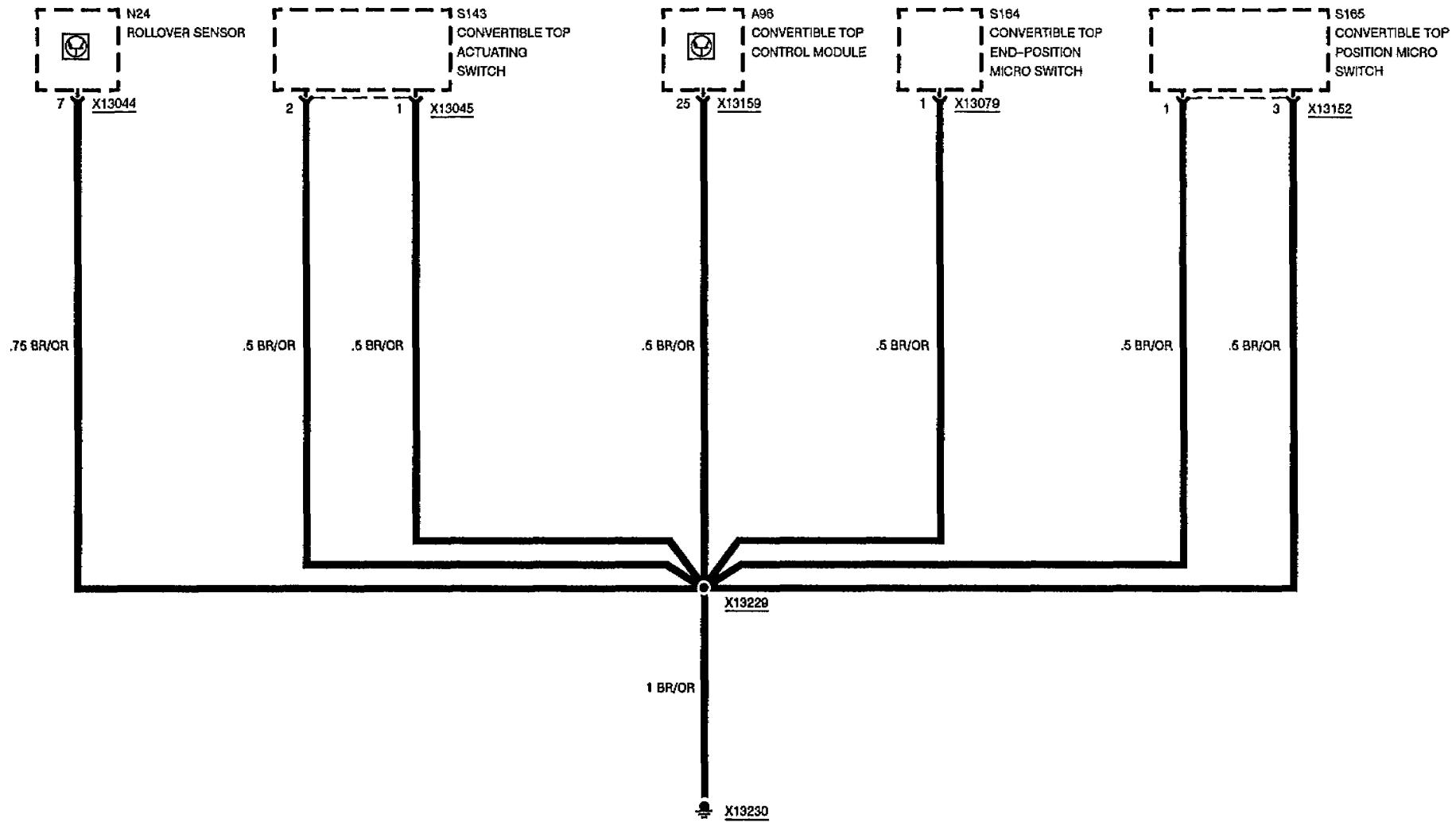
GROUND DISTRIBUTION

GROUND X13230

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1994





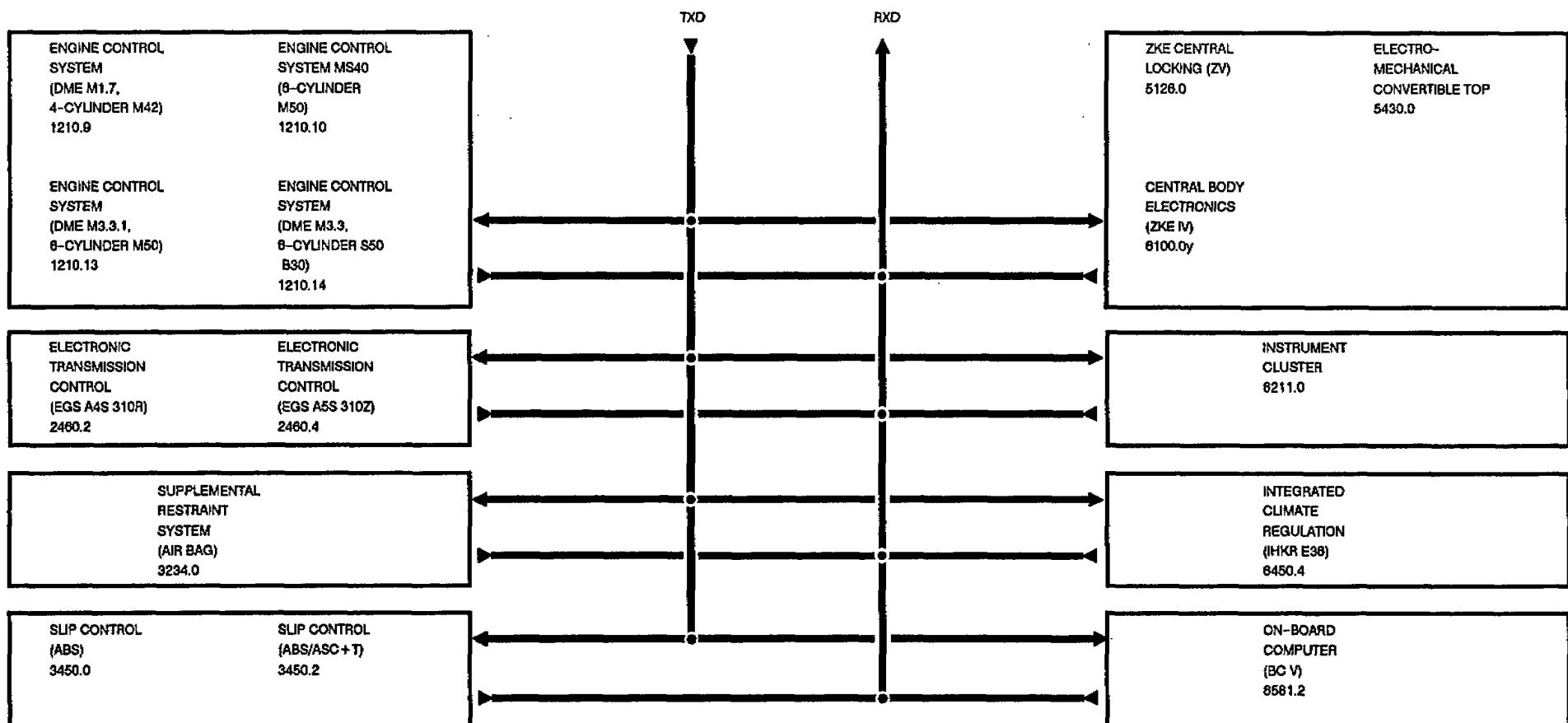
DATA LINK BLOCK DIAGRAM

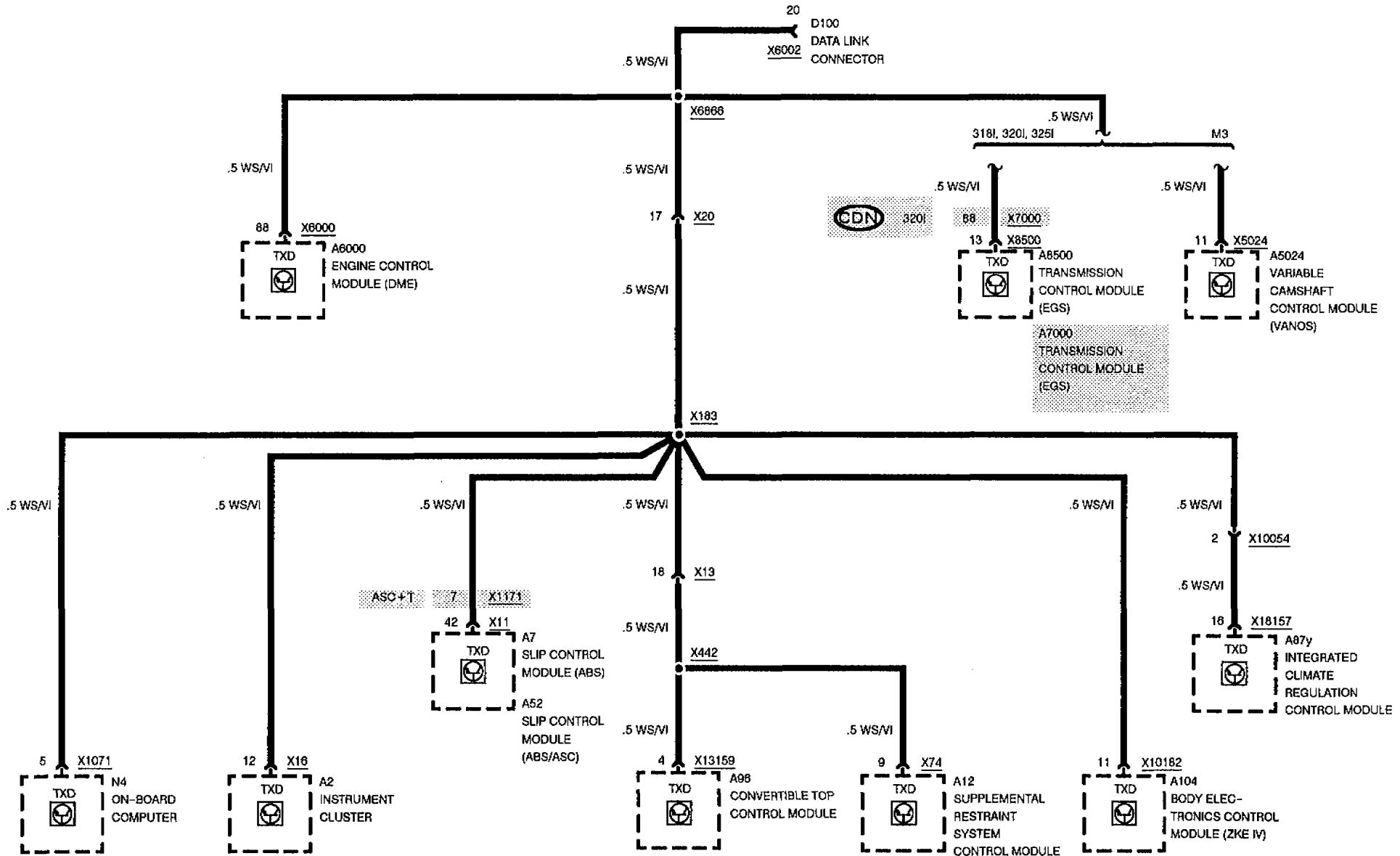
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1994

D100
DATA LINK
CONNECTOR

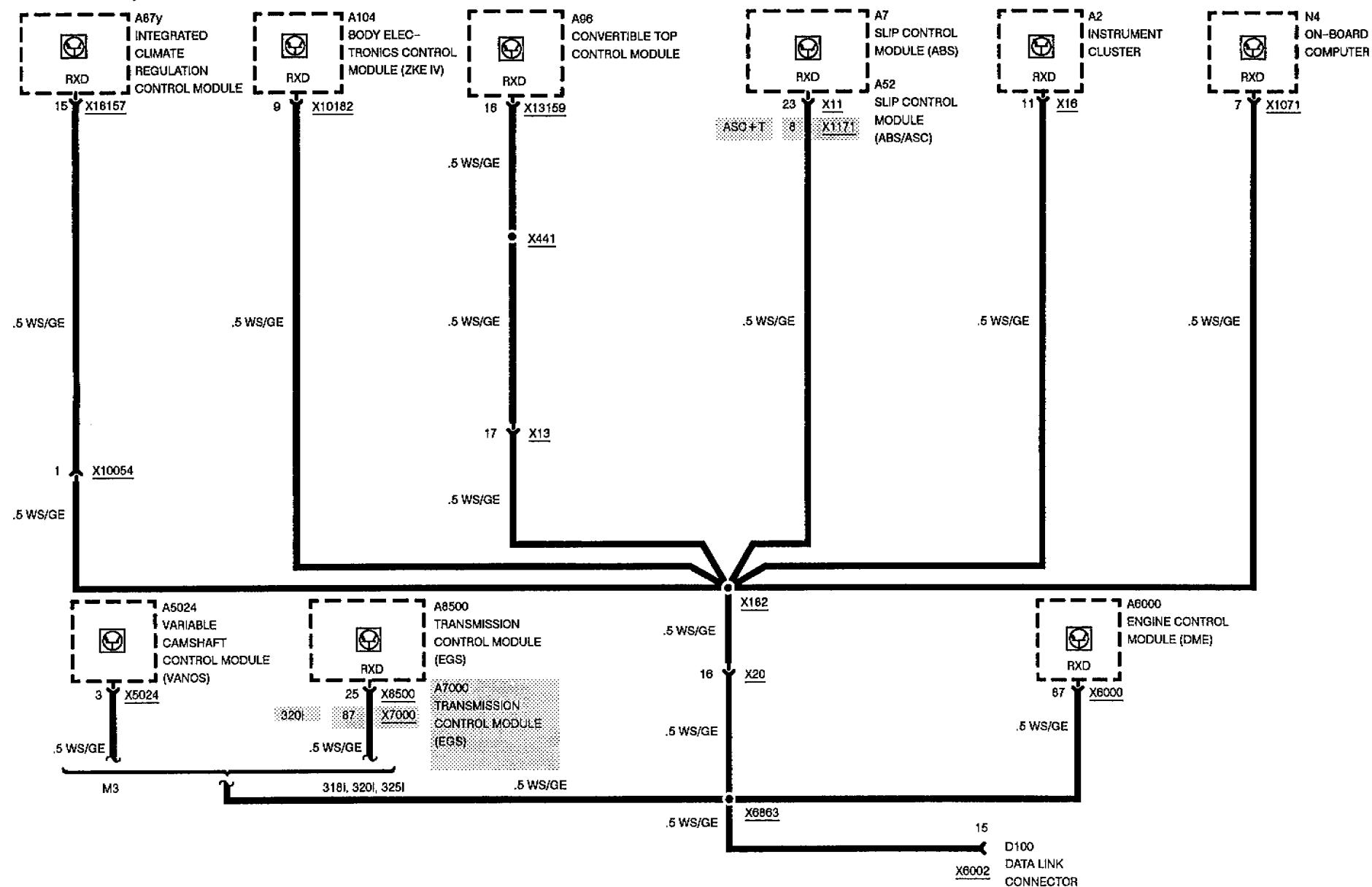


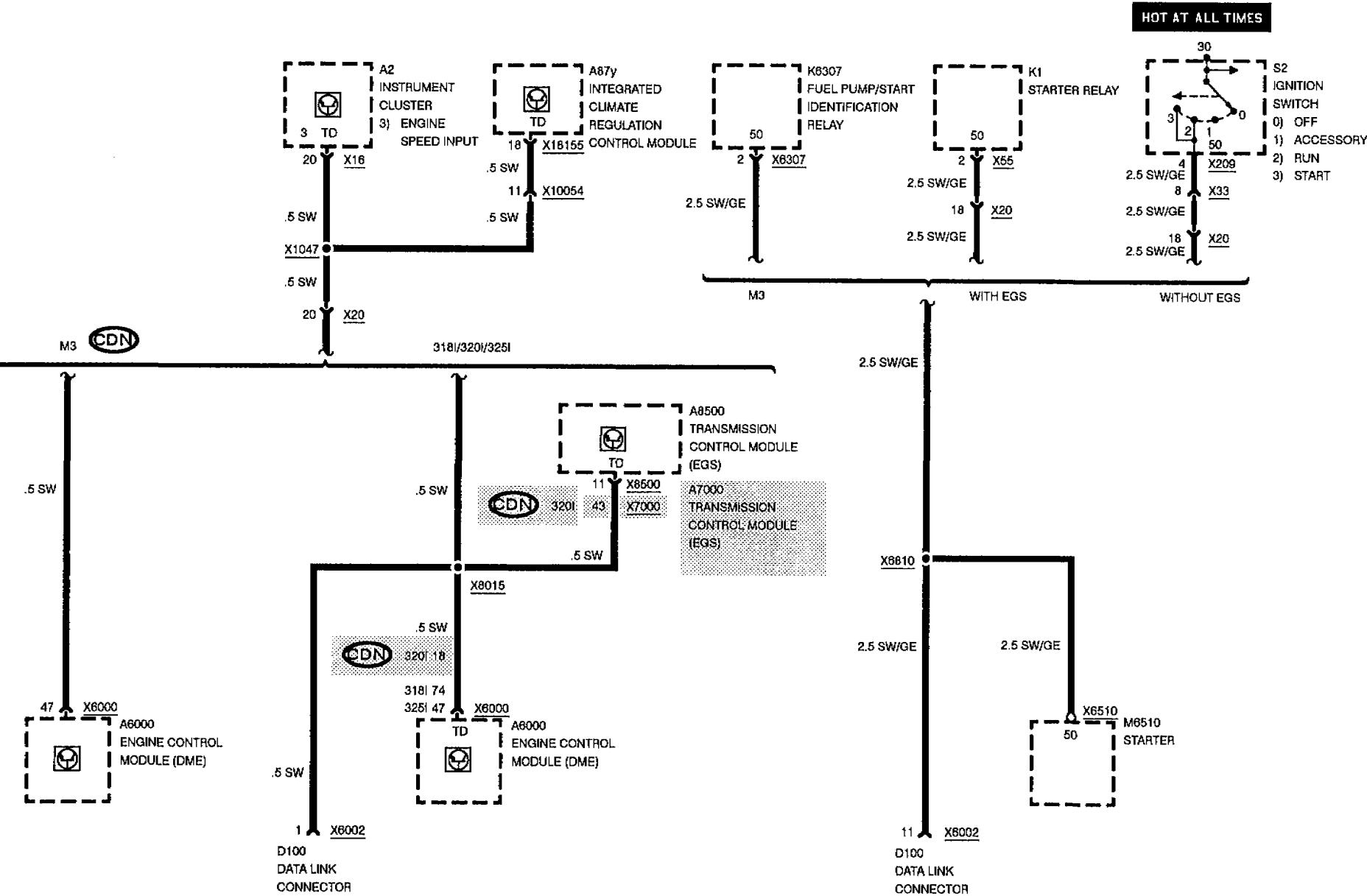




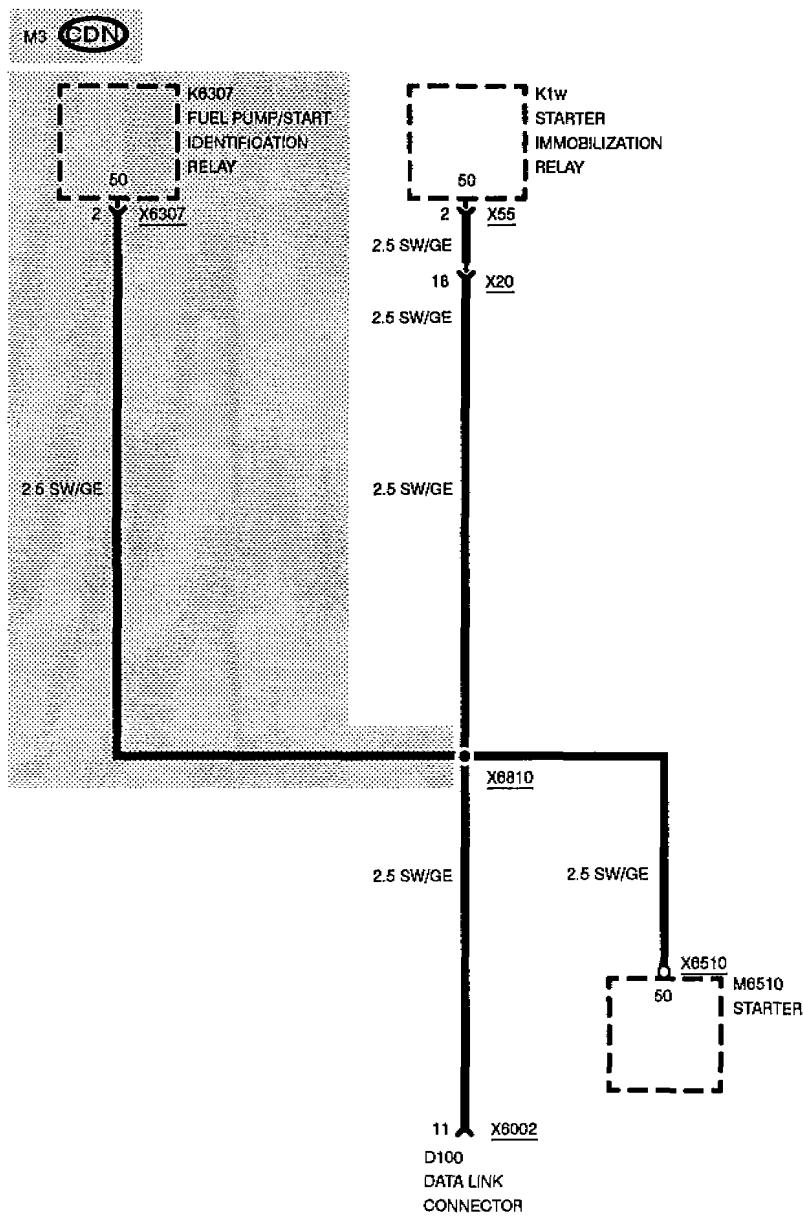
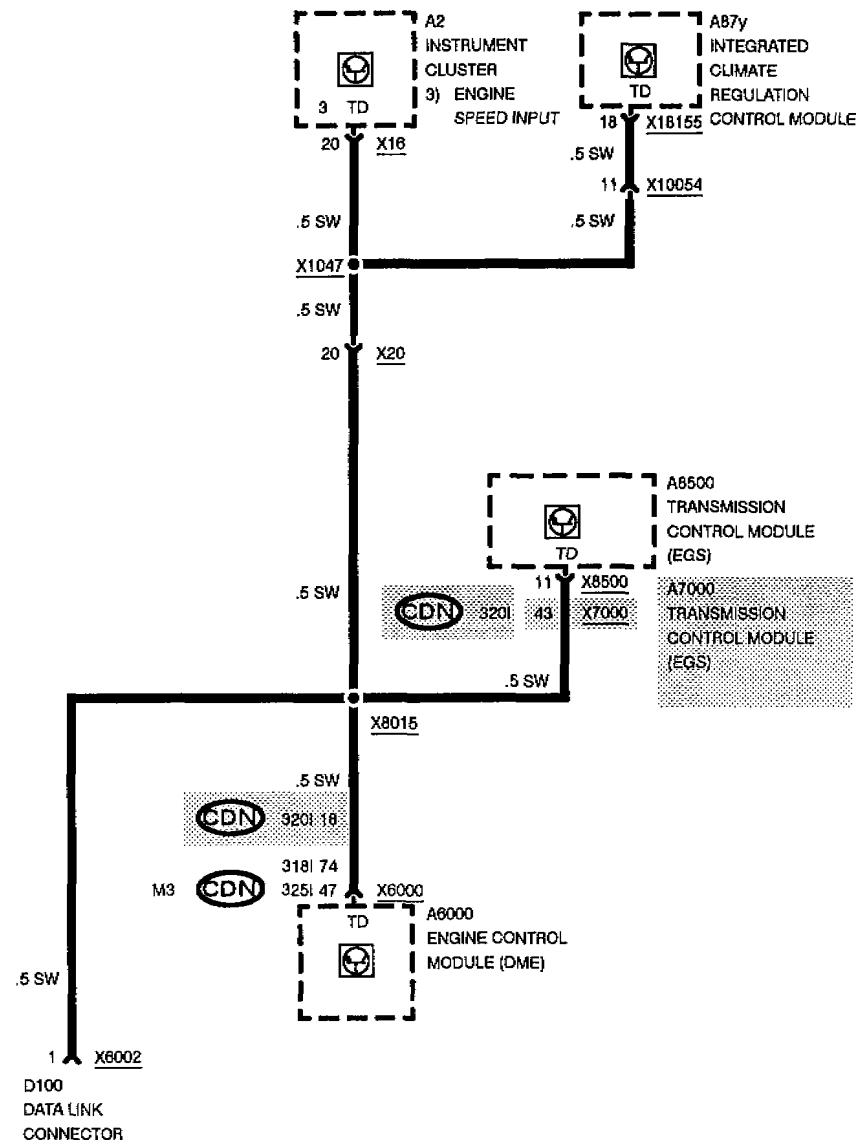
DATA LINK

RXD, PIN 15





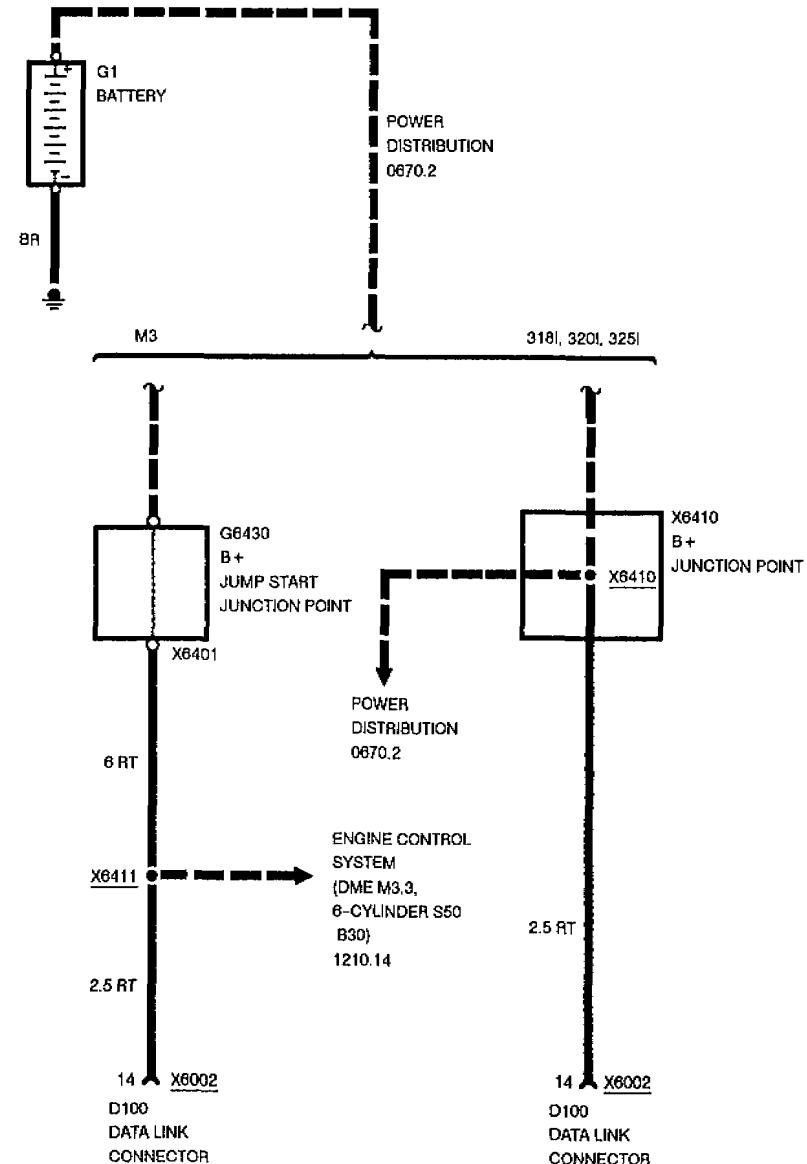
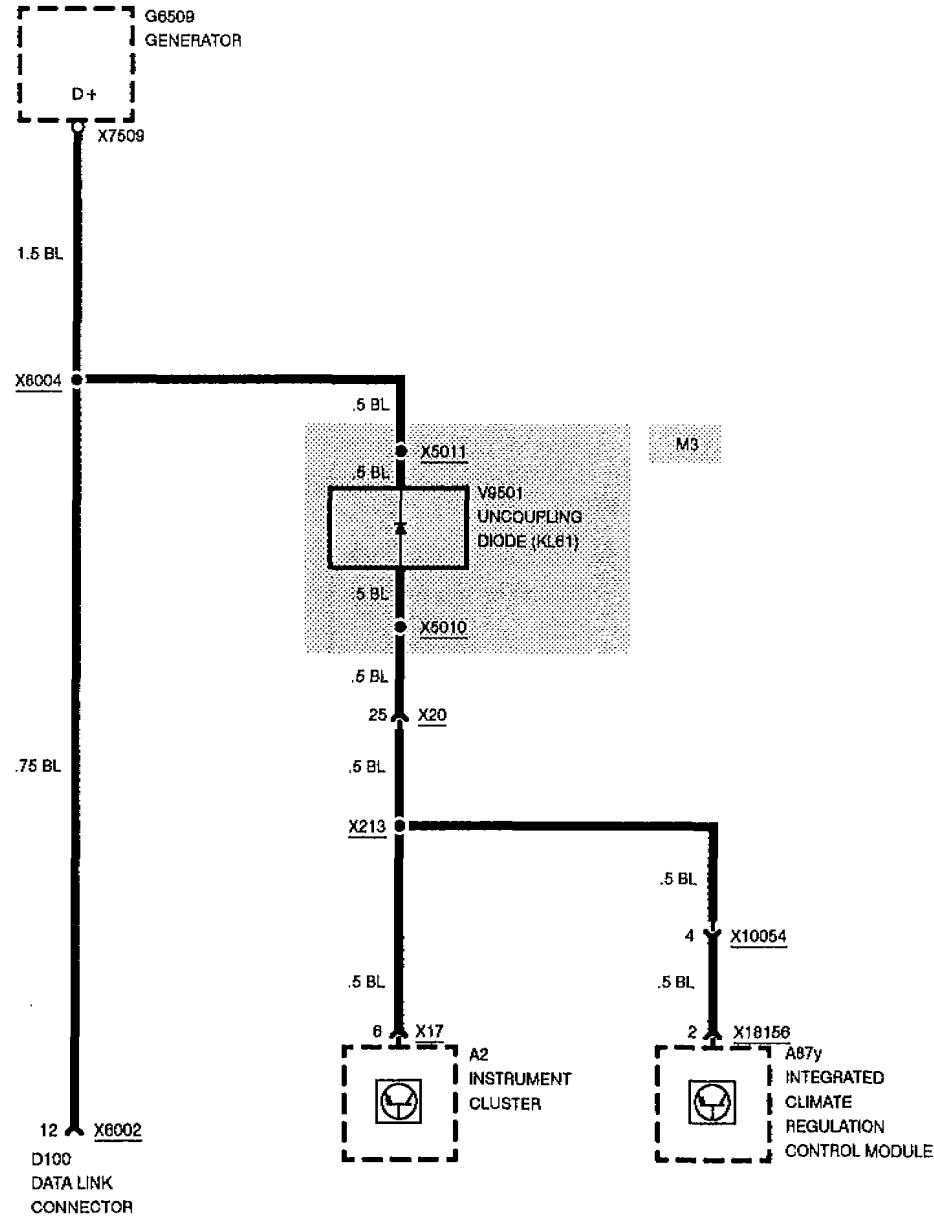
DATA LINK CONNECTOR PINS 1 AND 11





DATA LINK

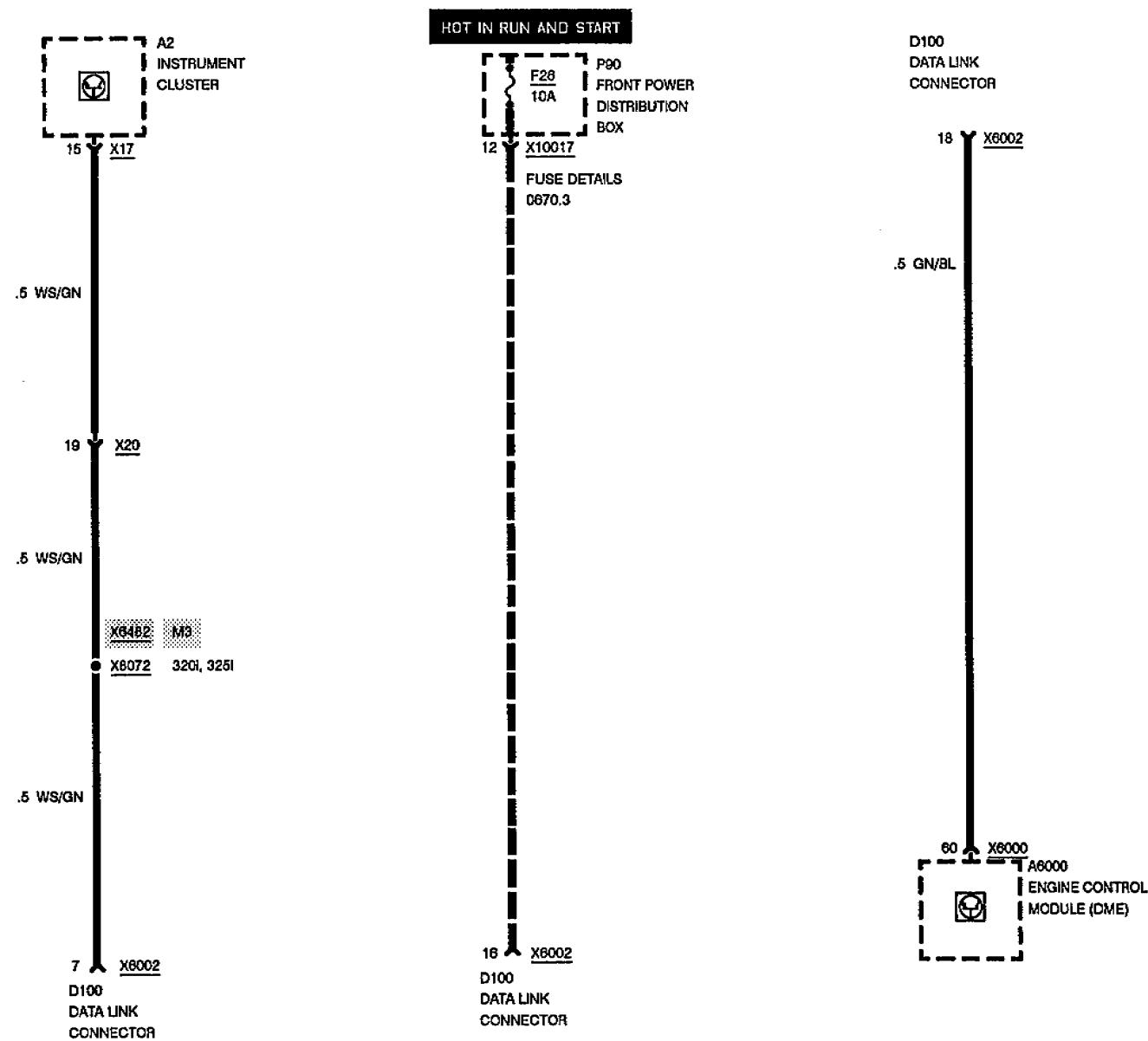
DATA LINK CONNECTOR PINS 12 AND 14





DATA LINK

DATA LINK CONNECTOR PINS 7, 16, AND 18





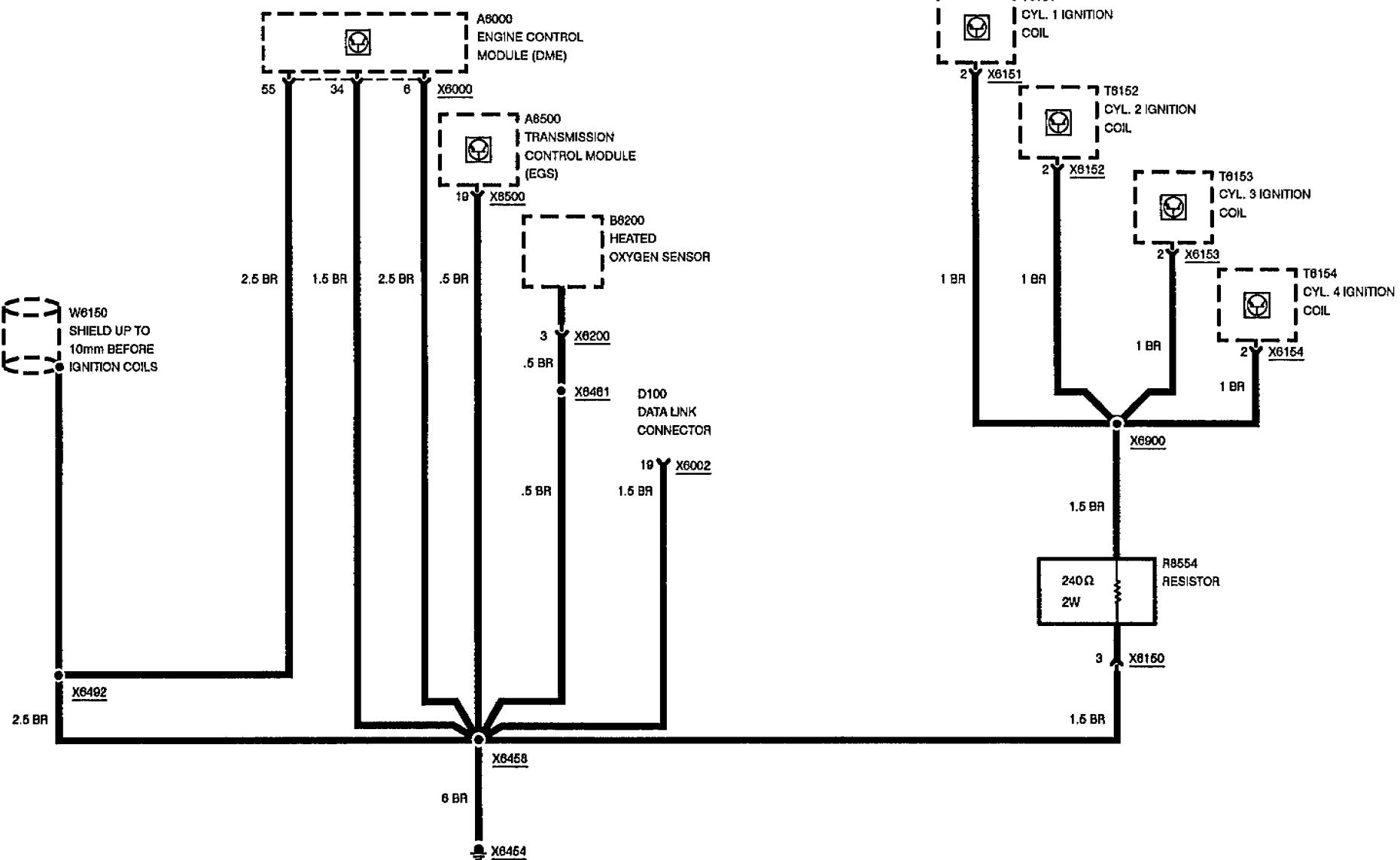
DATA LINK

DATA LINK CONNECTOR PIN 19

318i

1294

0670-5-07



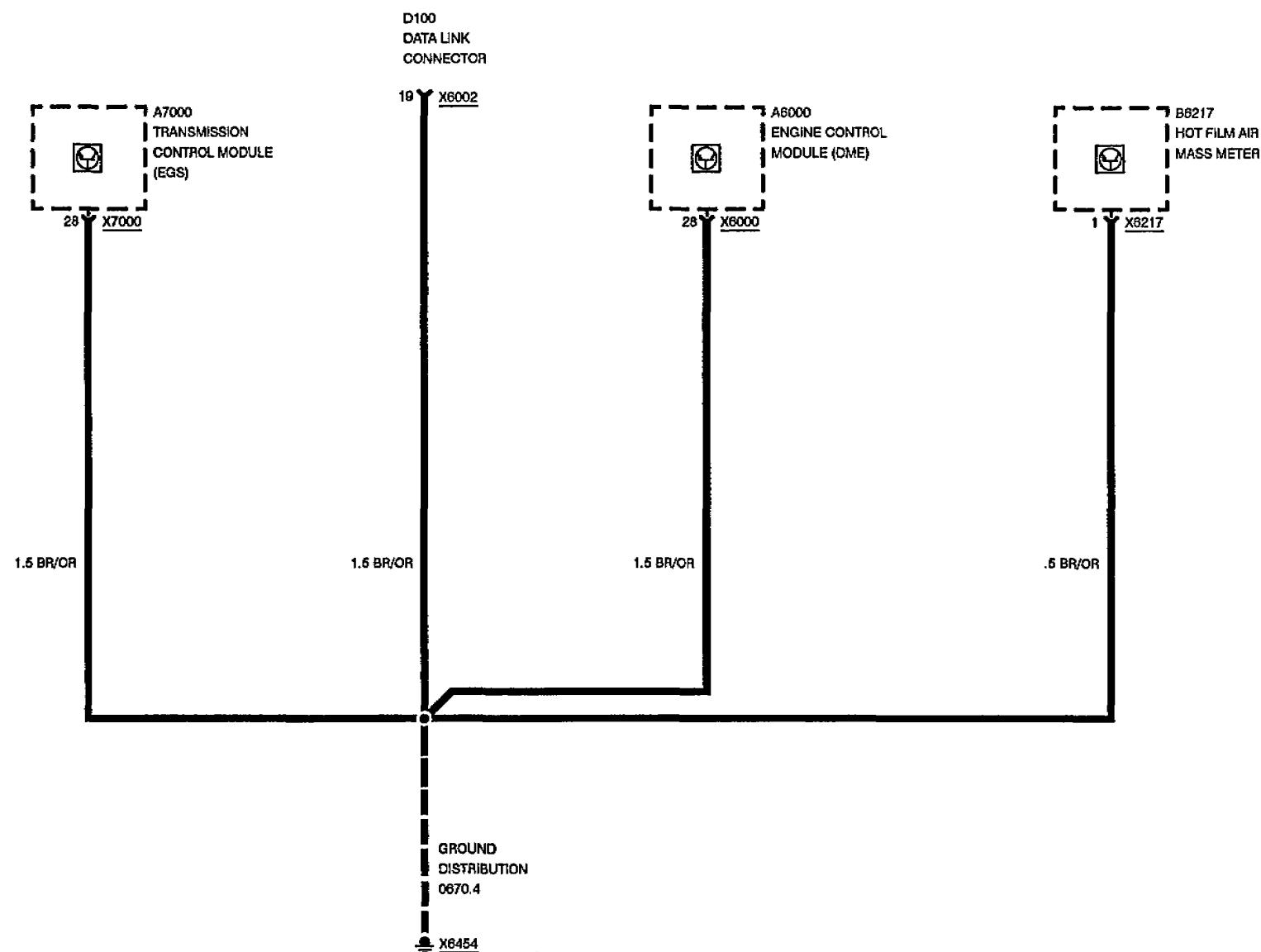
1994



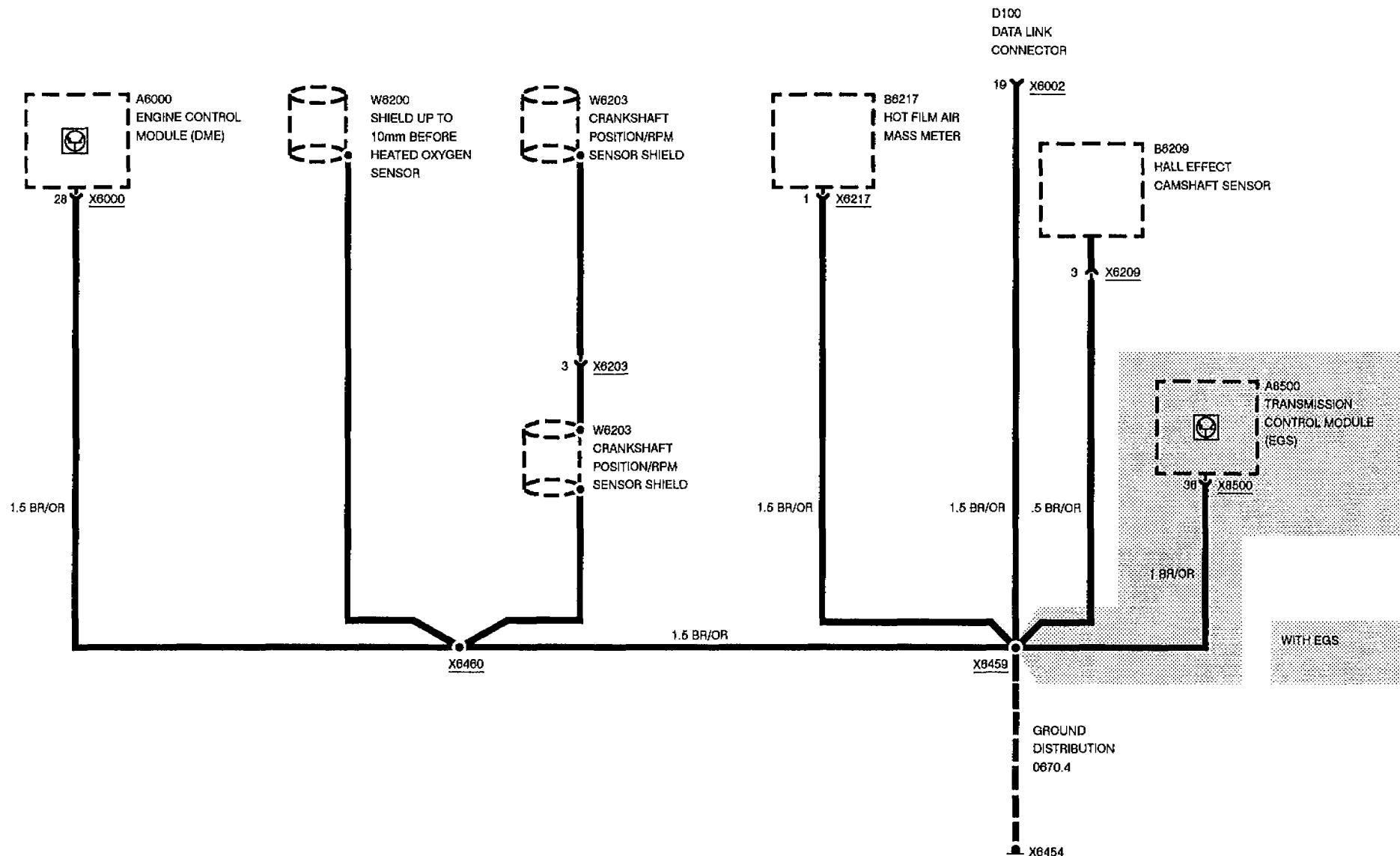
DATA LINK

320i CDN

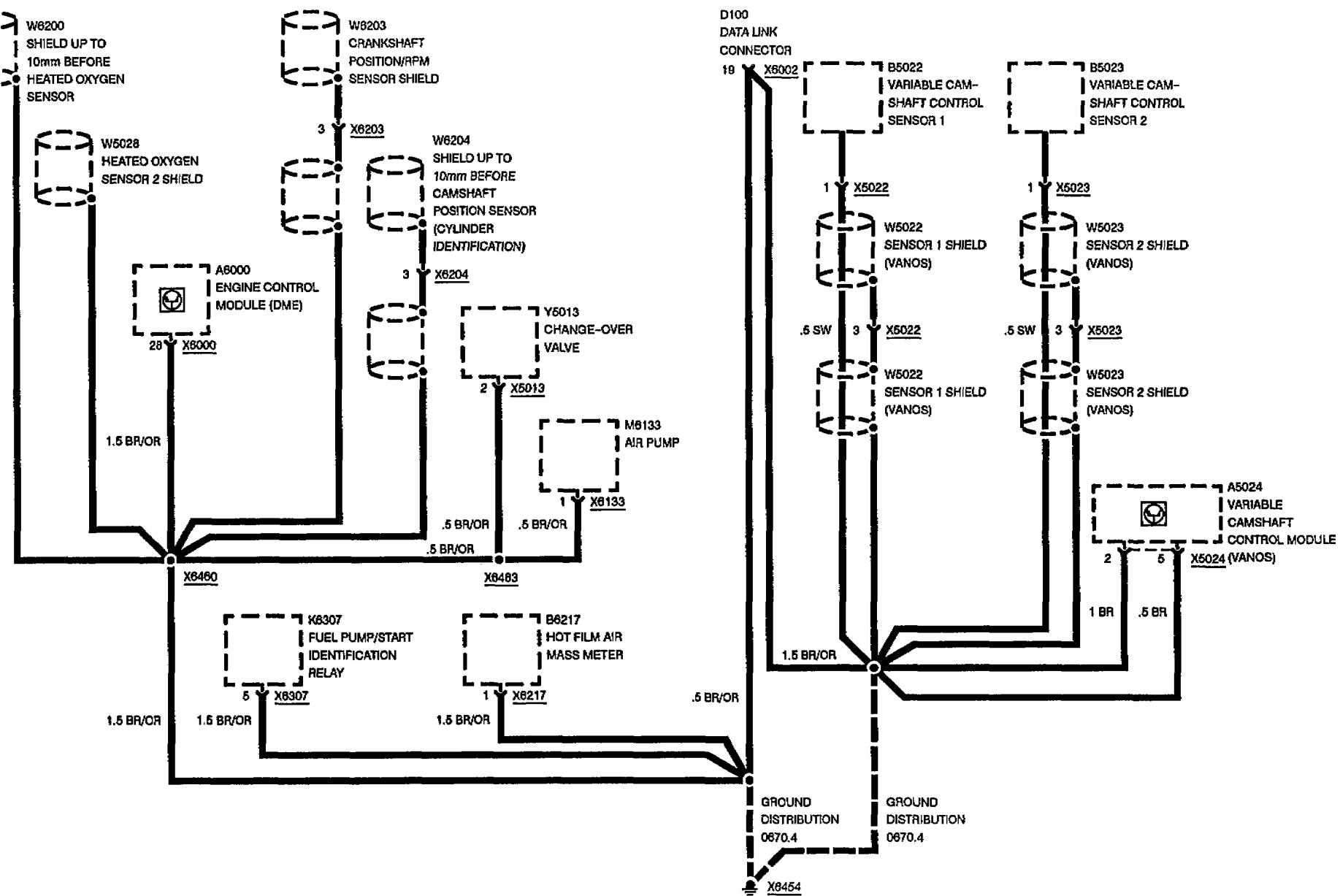
DATA LINK CONNECTOR PIN 19



DATA LINK CONNECTOR PIN 19



DATA LINK CONNECTOR PIN 19



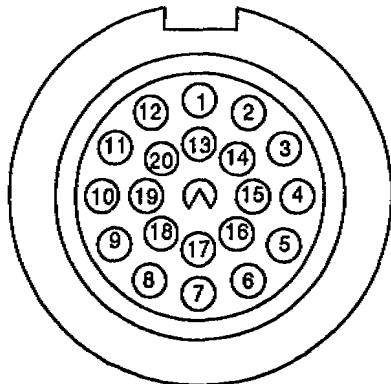


DATA LINK

DATA LINK CONNECTOR (X6002)

12/94

0670.5-11

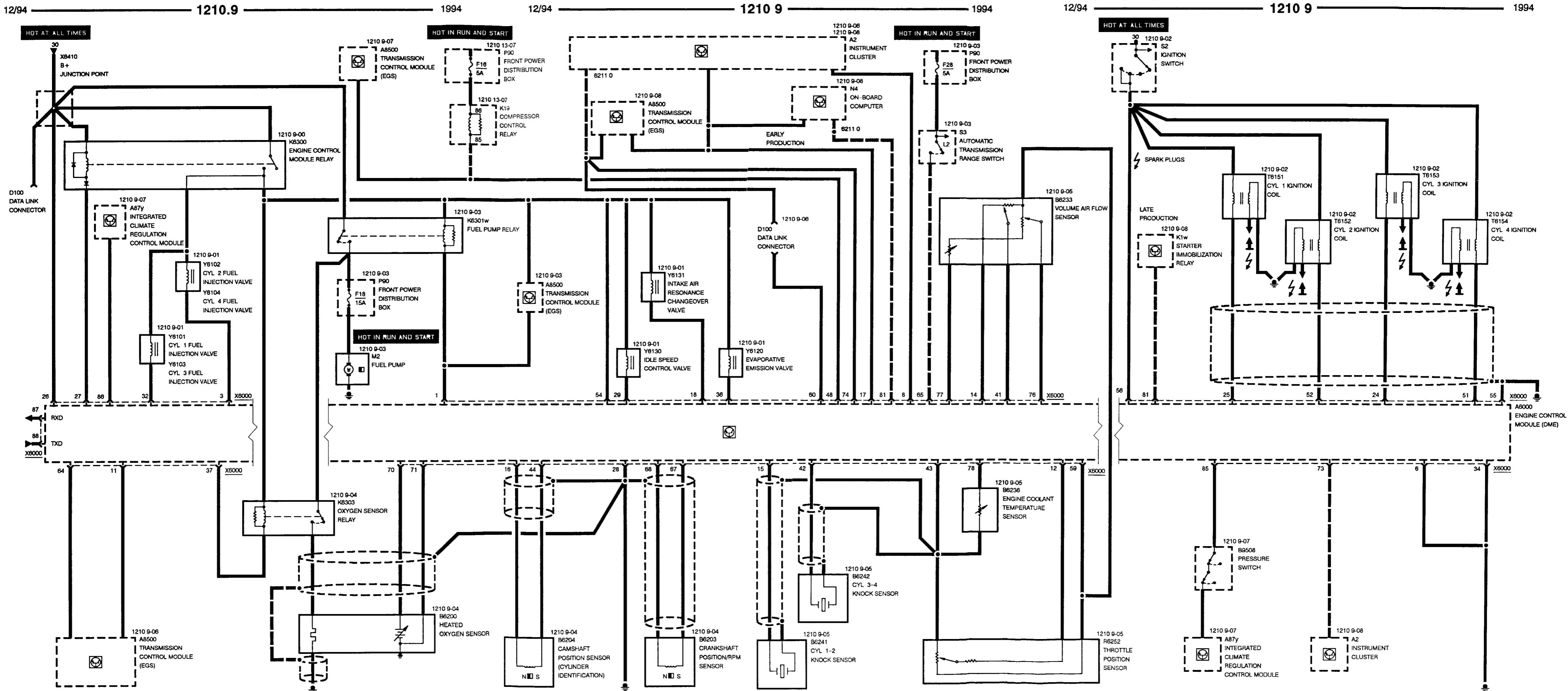


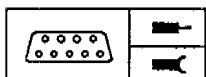
PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	-	MOTOR	SW
2	-	NOT OCCUPIED	
3	-	NOT OCCUPIED	
4	-	NOT OCCUPIED	
5	-	NOT OCCUPIED	
6	-	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	-	NOT OCCUPIED	
9	-	NOT OCCUPIED	
10	-	NOT OCCUPIED	
11	50	VOLTAGE: IGNITION SWITCH IN START	SW/GE
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	-	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	-	NOT OCCUPIED	
18	PGSP	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	GN/BL
19	31	GROUND	BR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI

1994



— 0670.5-12 —



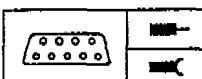


Pin Assignments

X6000

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

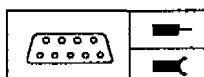
E = Input, A = Output, M = Ground



Pin Assignments

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

E = Input, A = Output, M = Ground



Pin Assignments

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

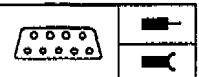
E = Input, A = Output, M = Ground



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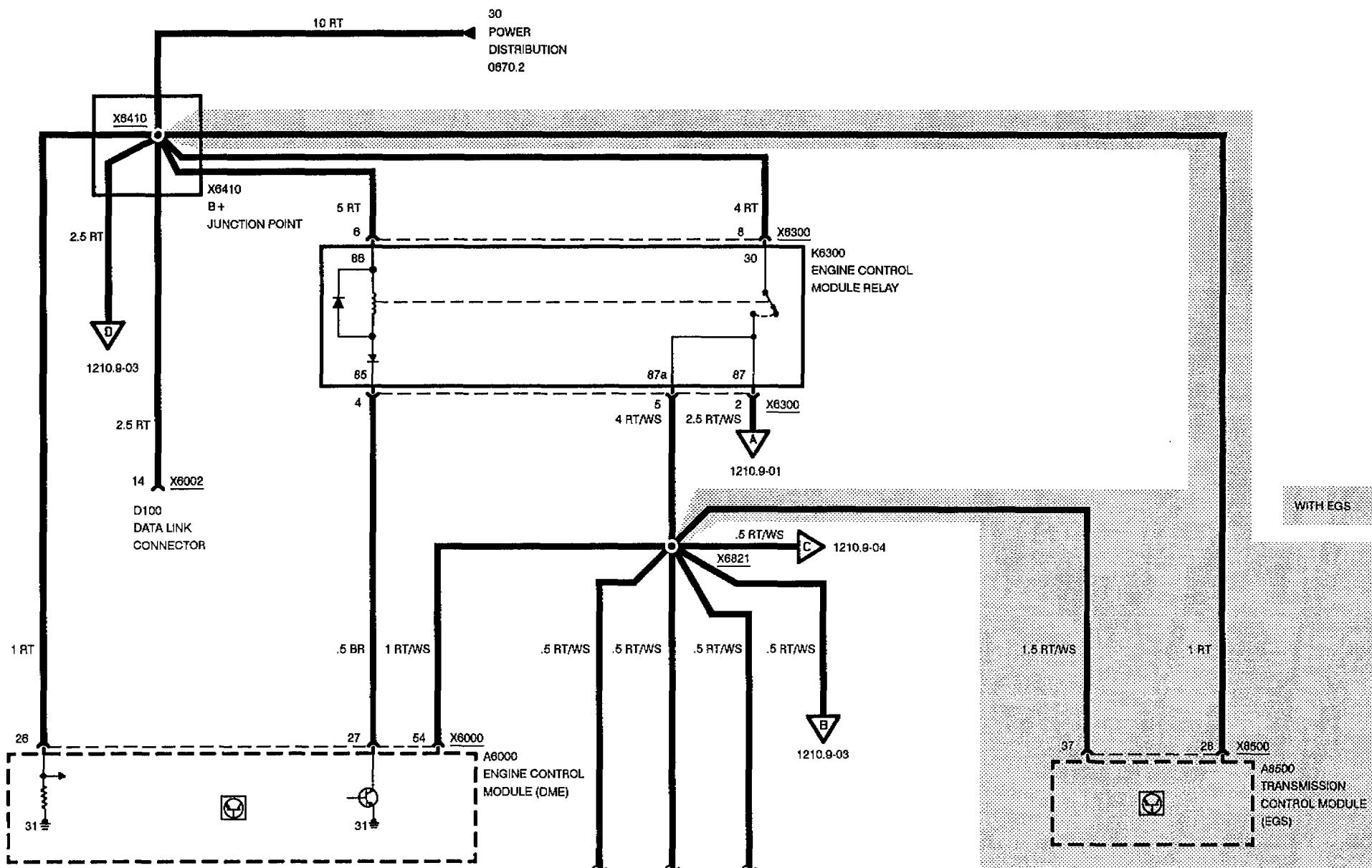
Pin Assignments

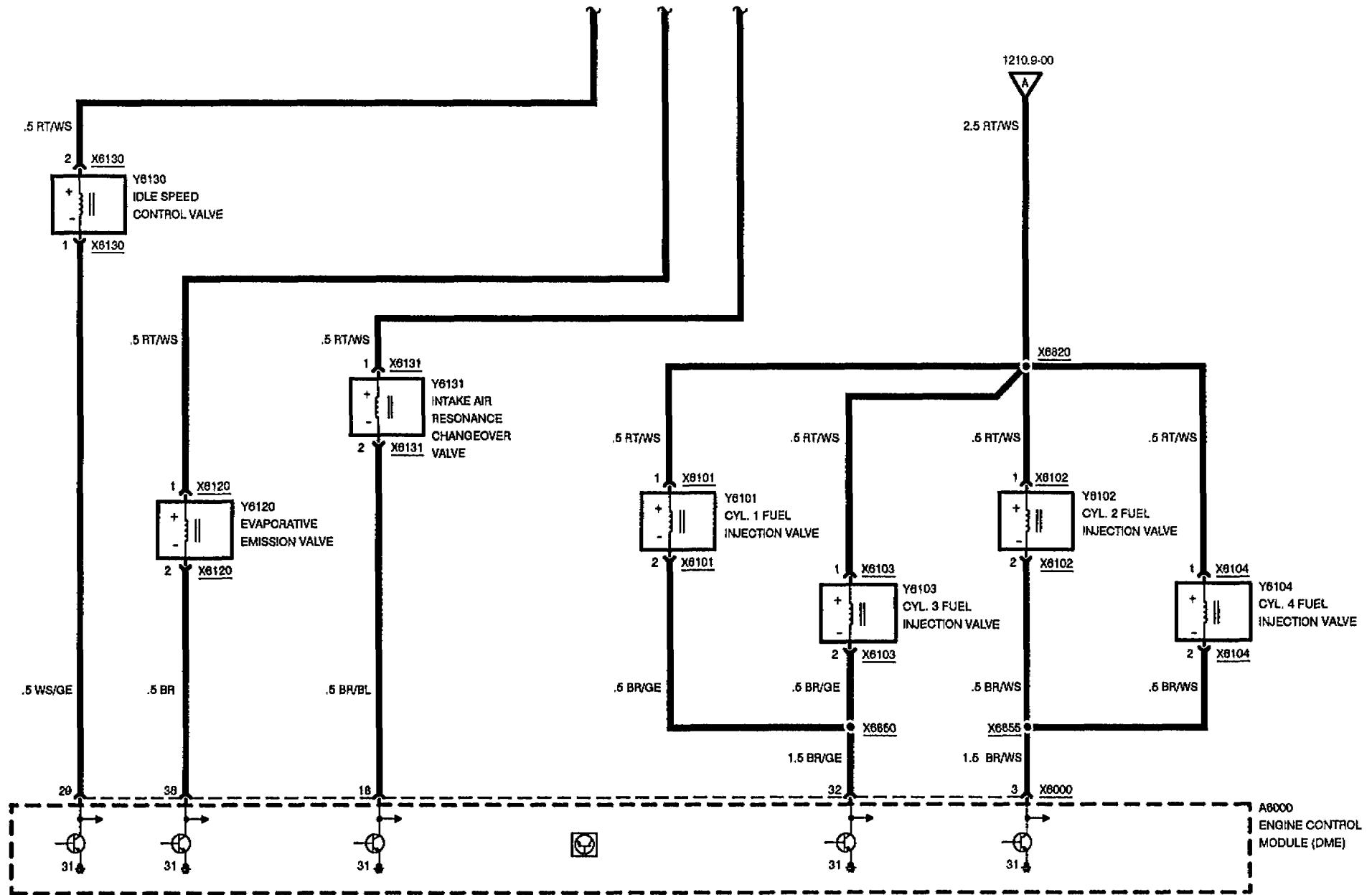
Pin	Type	Description/Function	Connection
87	A	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

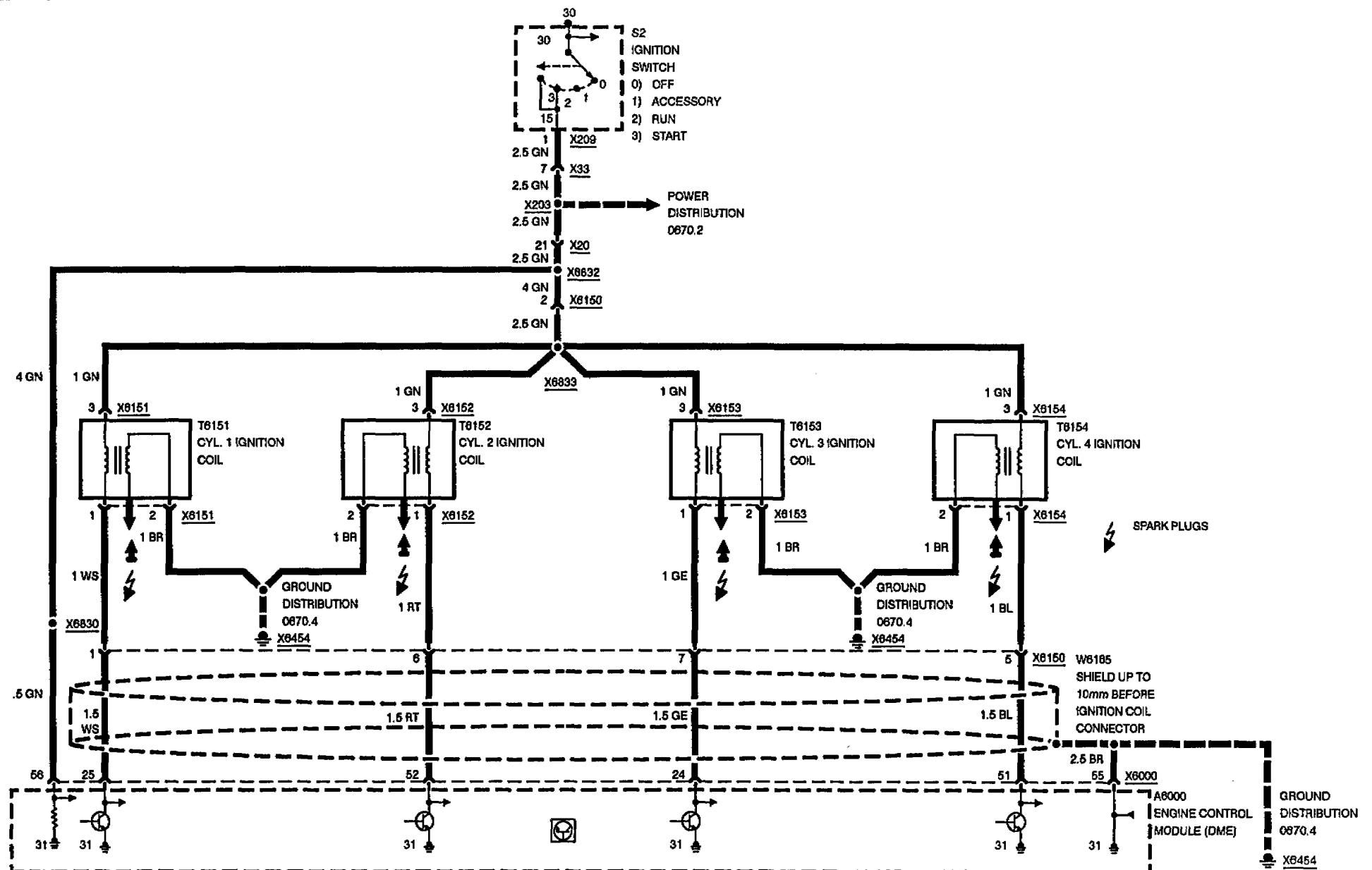
E = Input, A = Output, M = Ground



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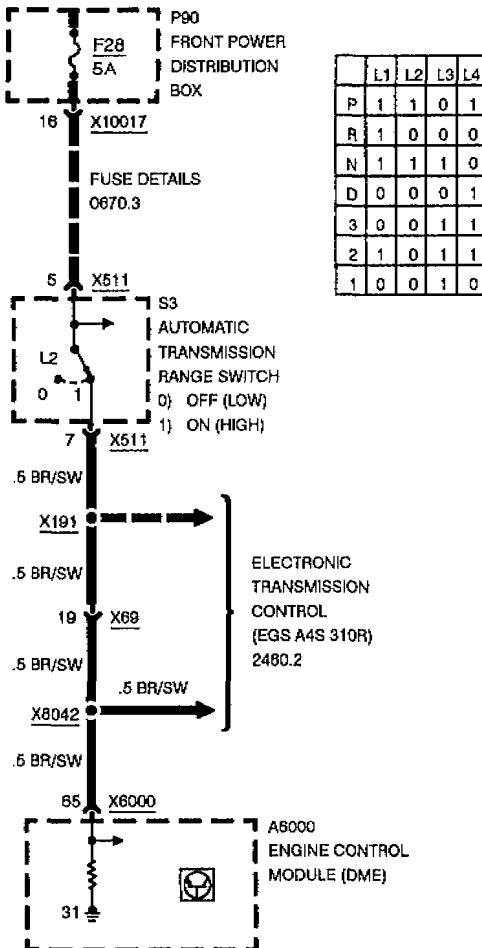




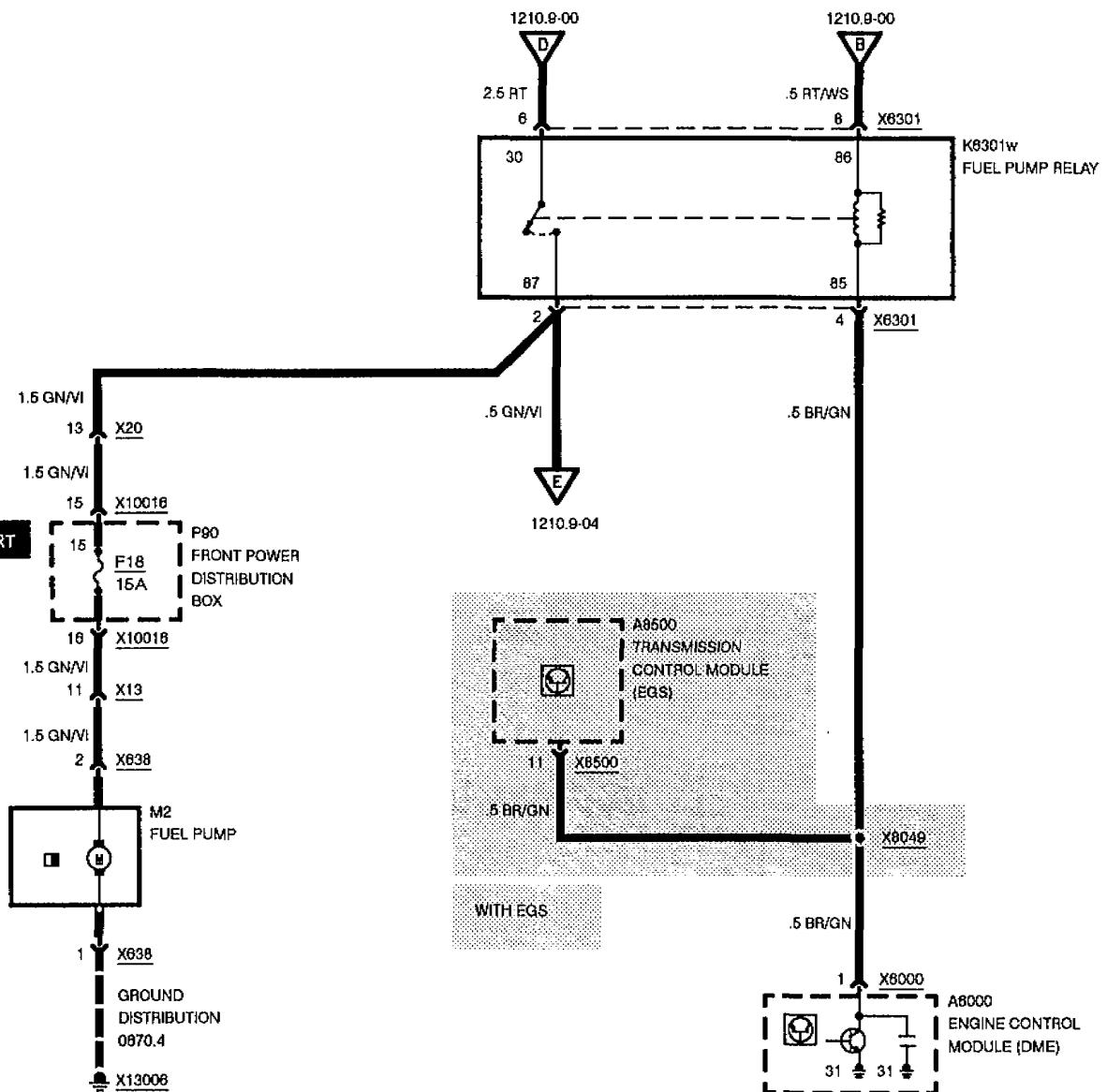
BMW 3 ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

FUEL PUMP

HOT IN RUN AND START



HOT IN RUN AND START





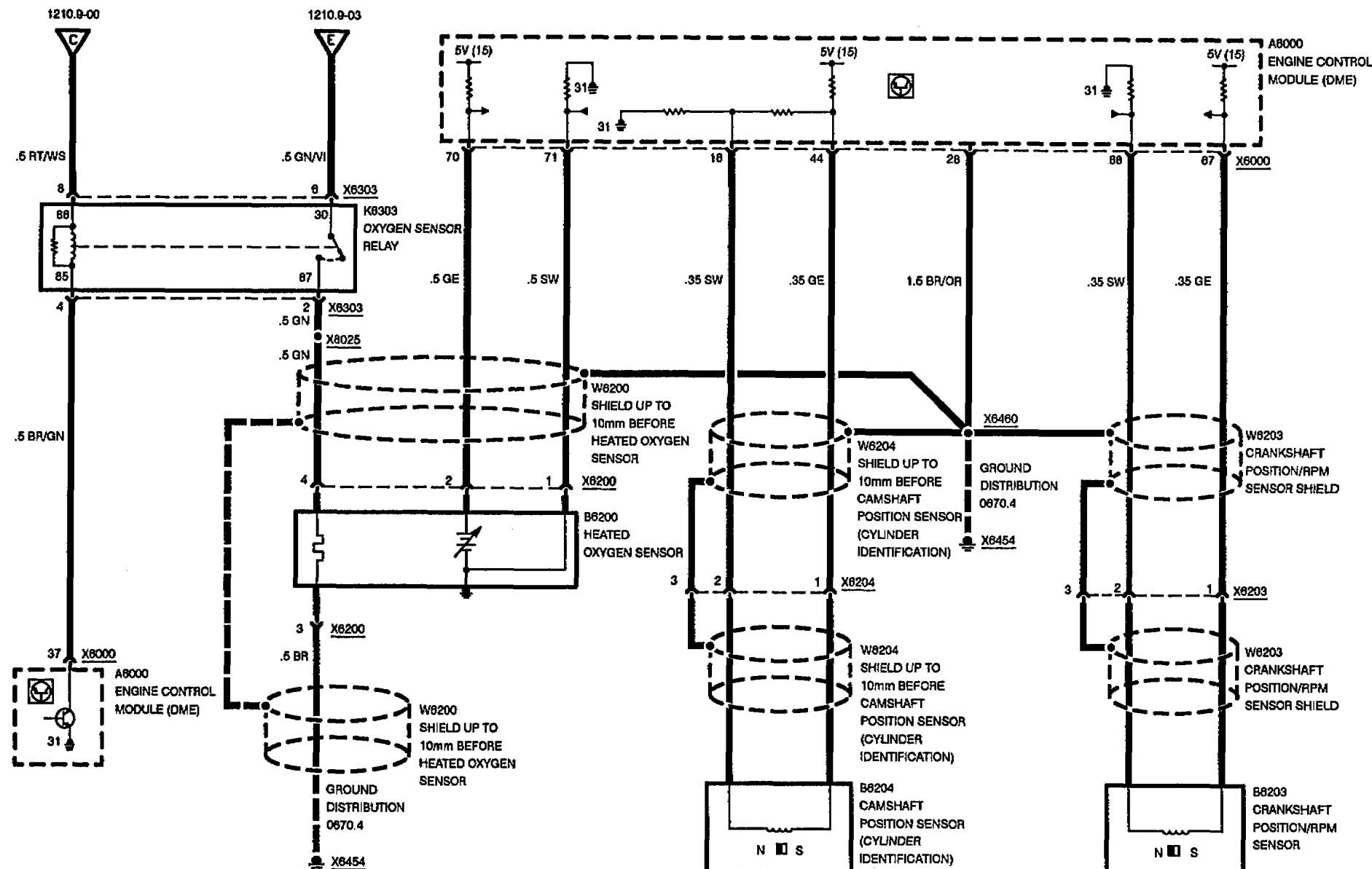
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

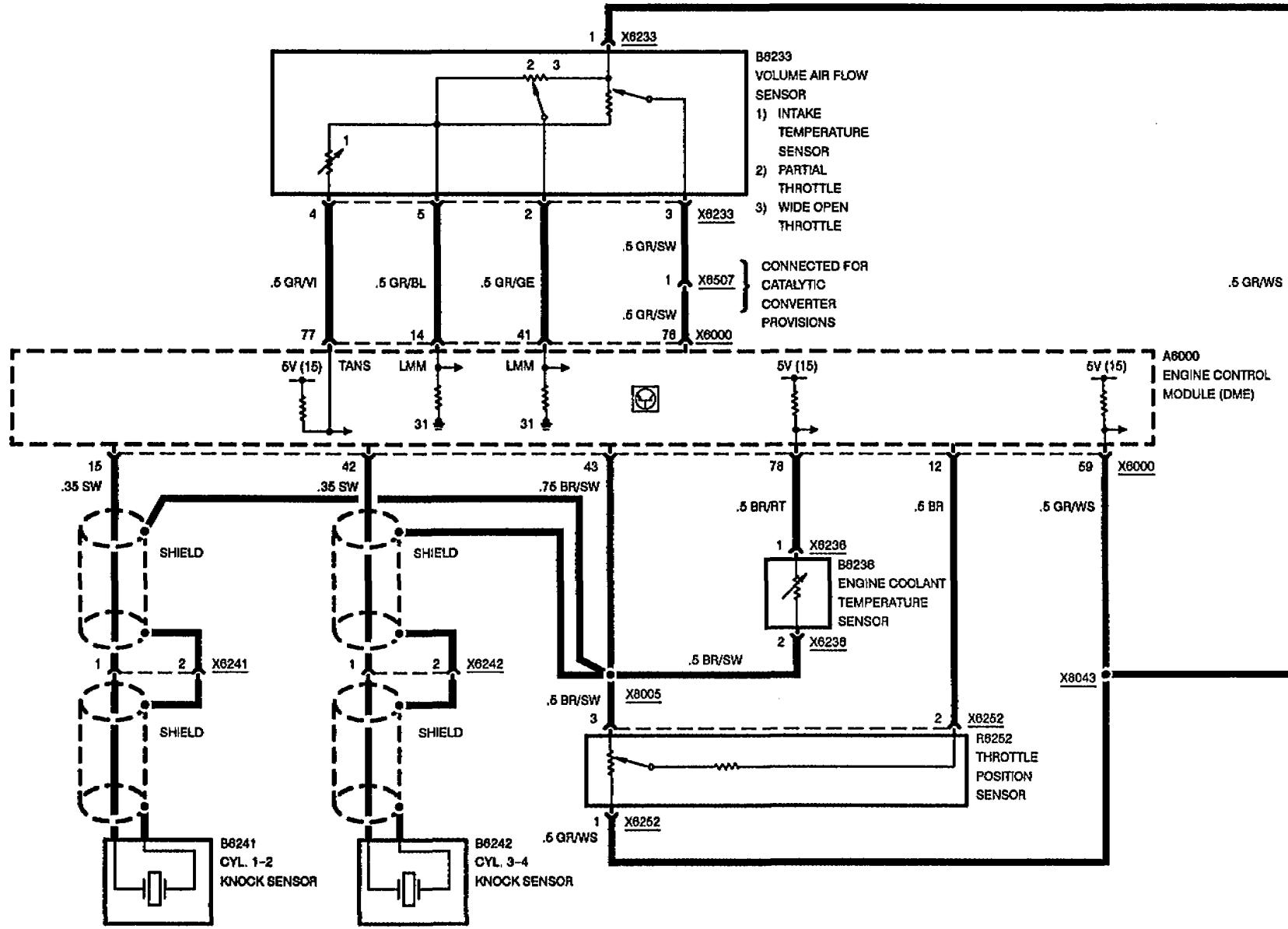
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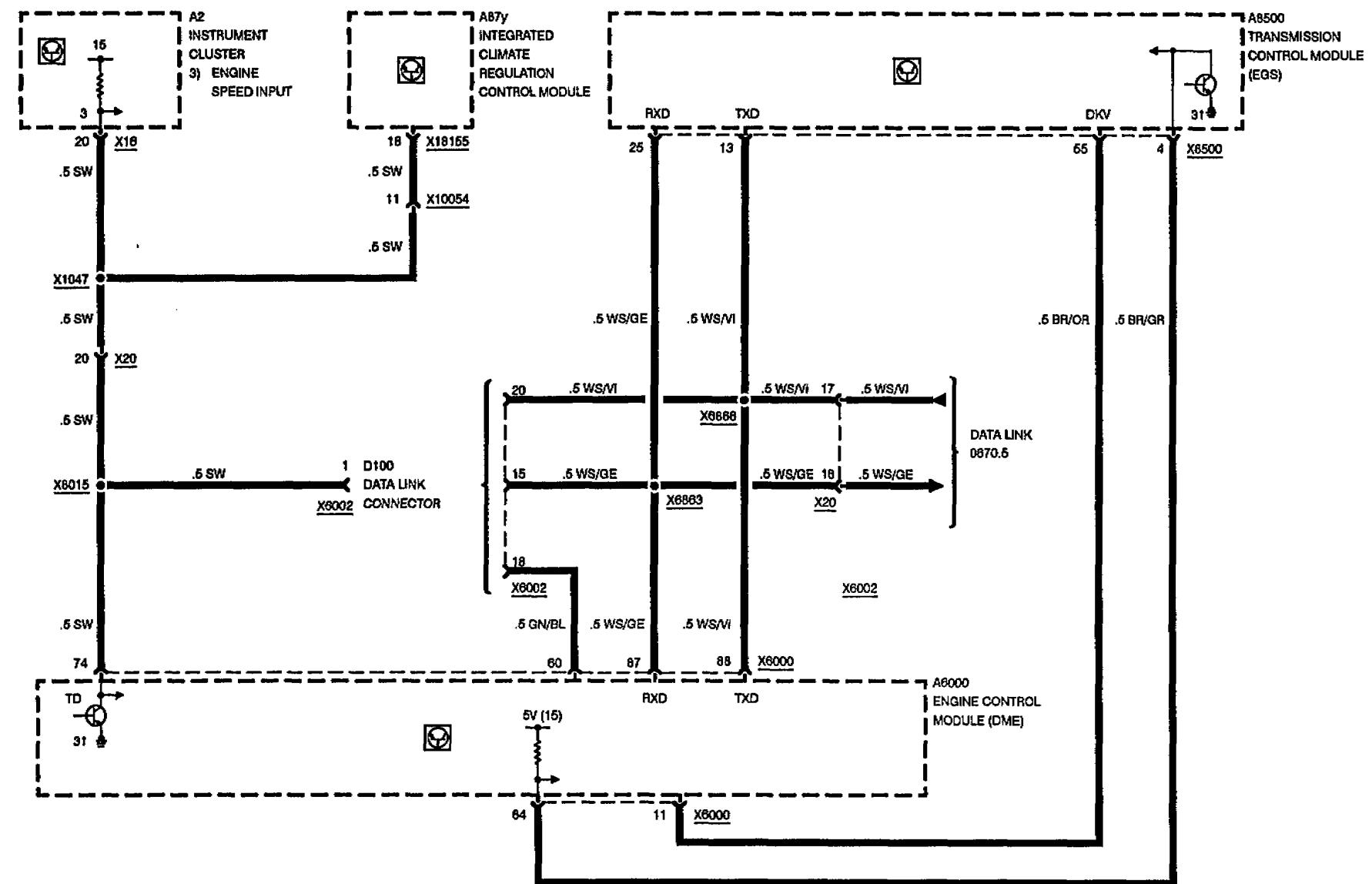
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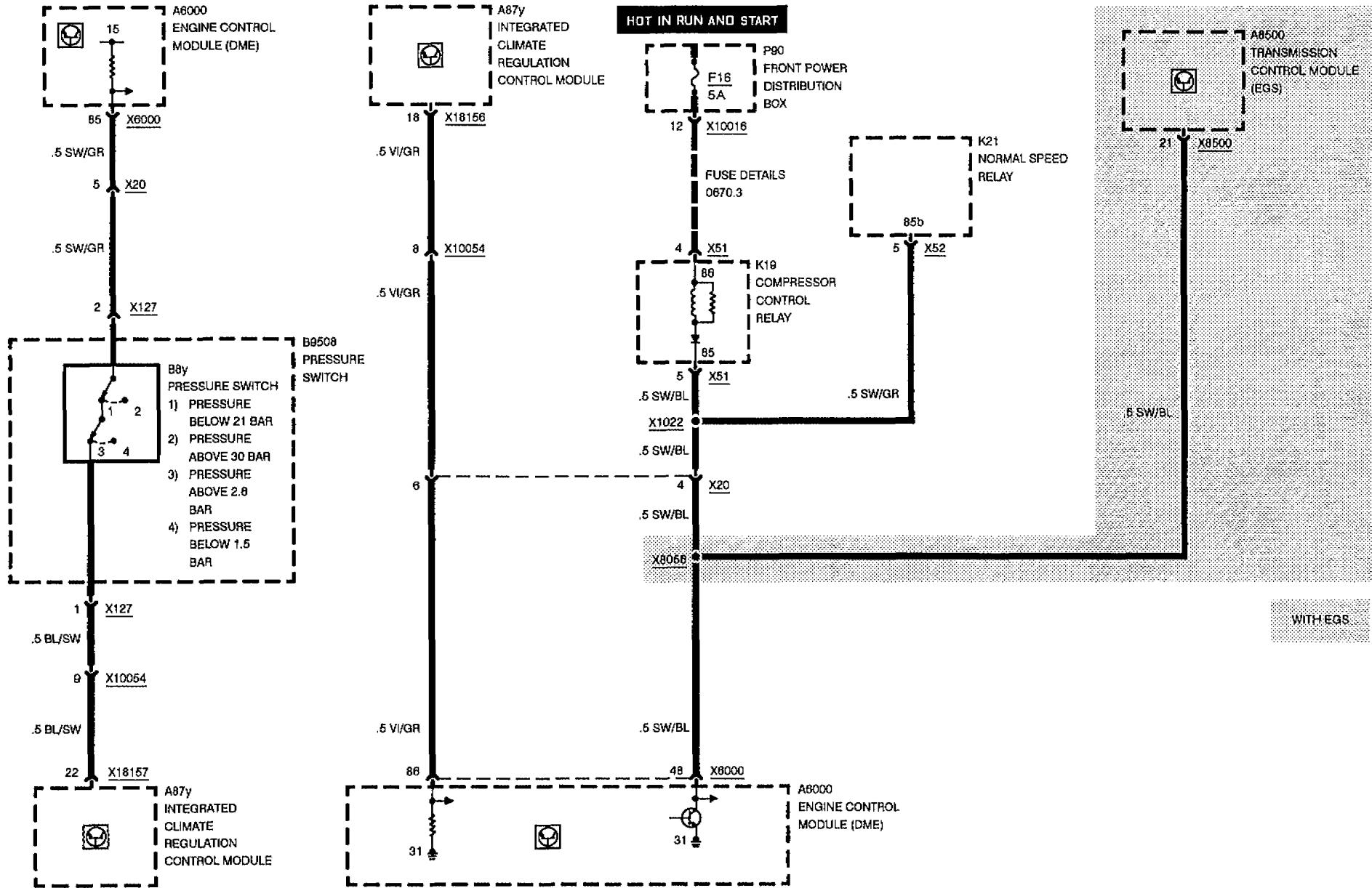


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

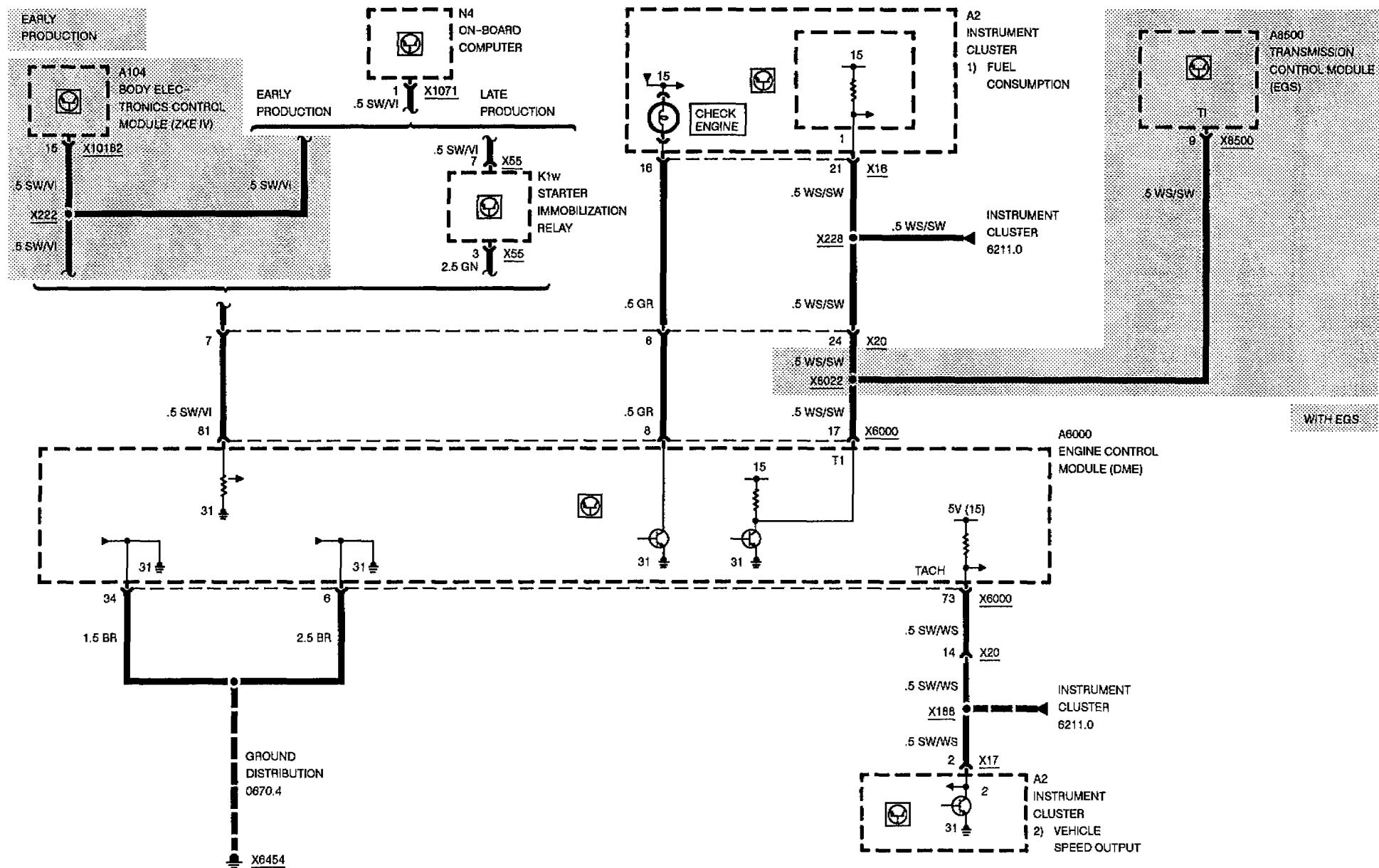




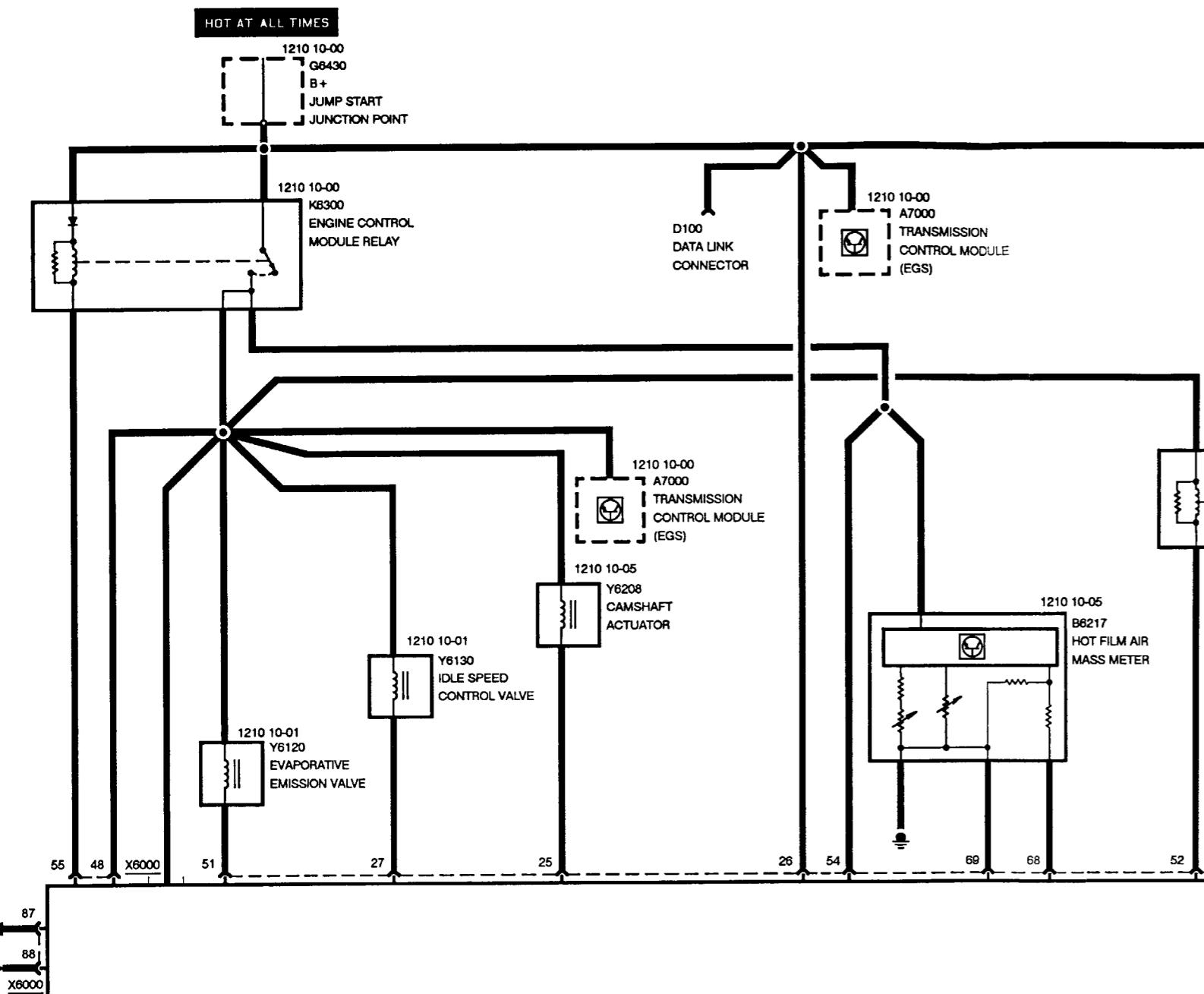
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



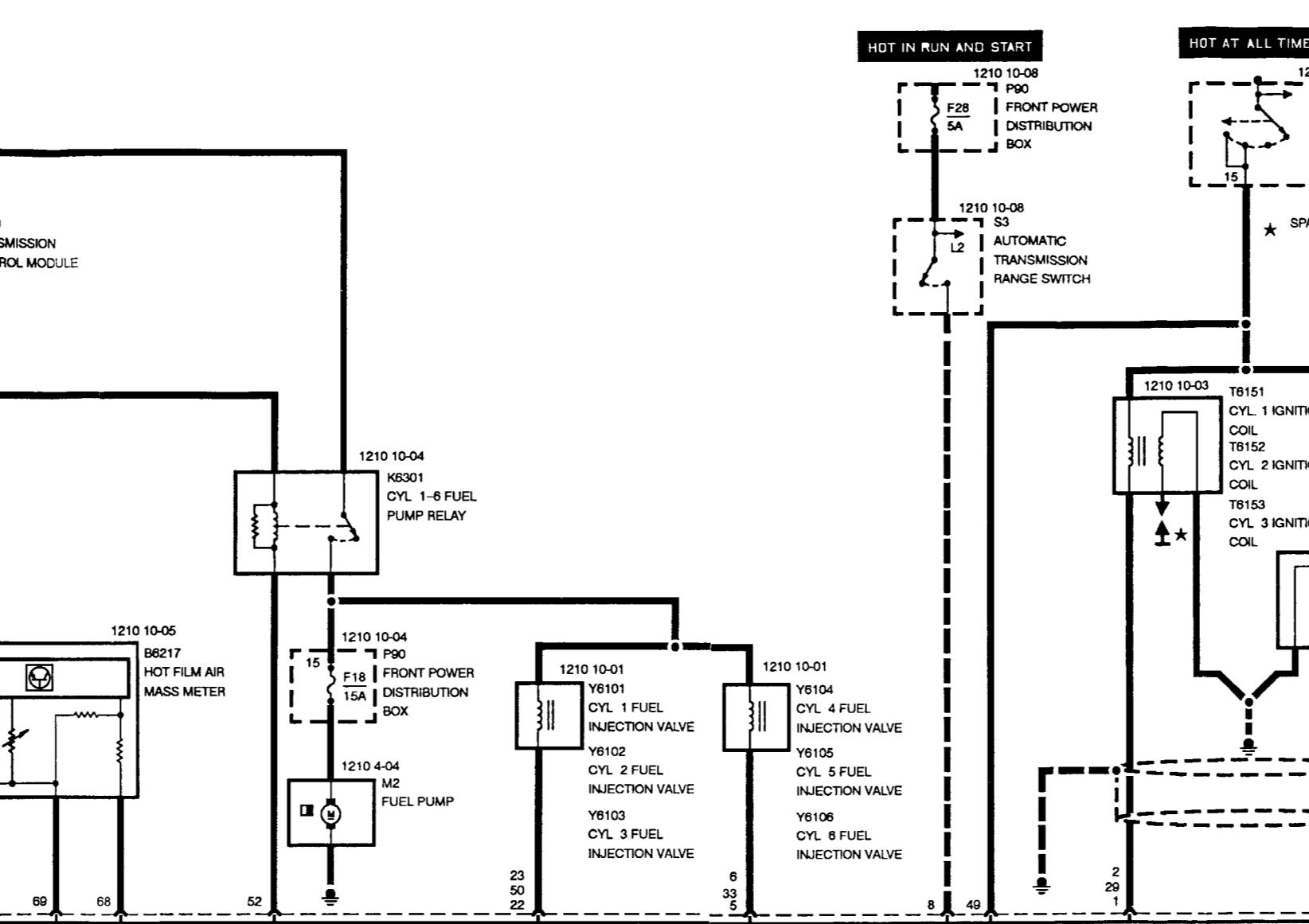
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



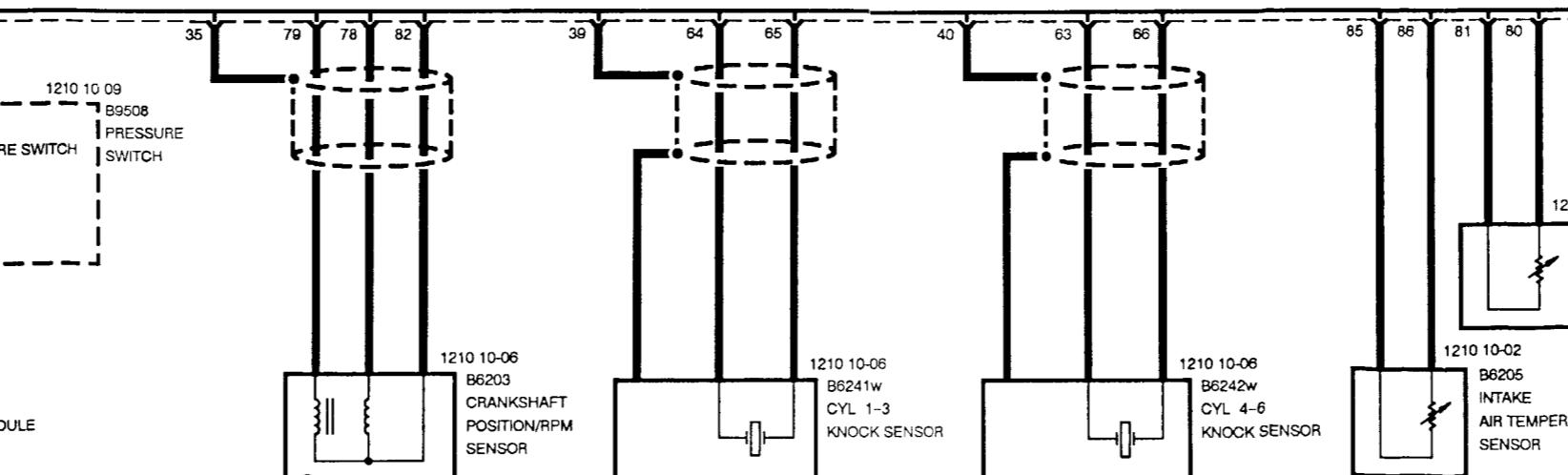
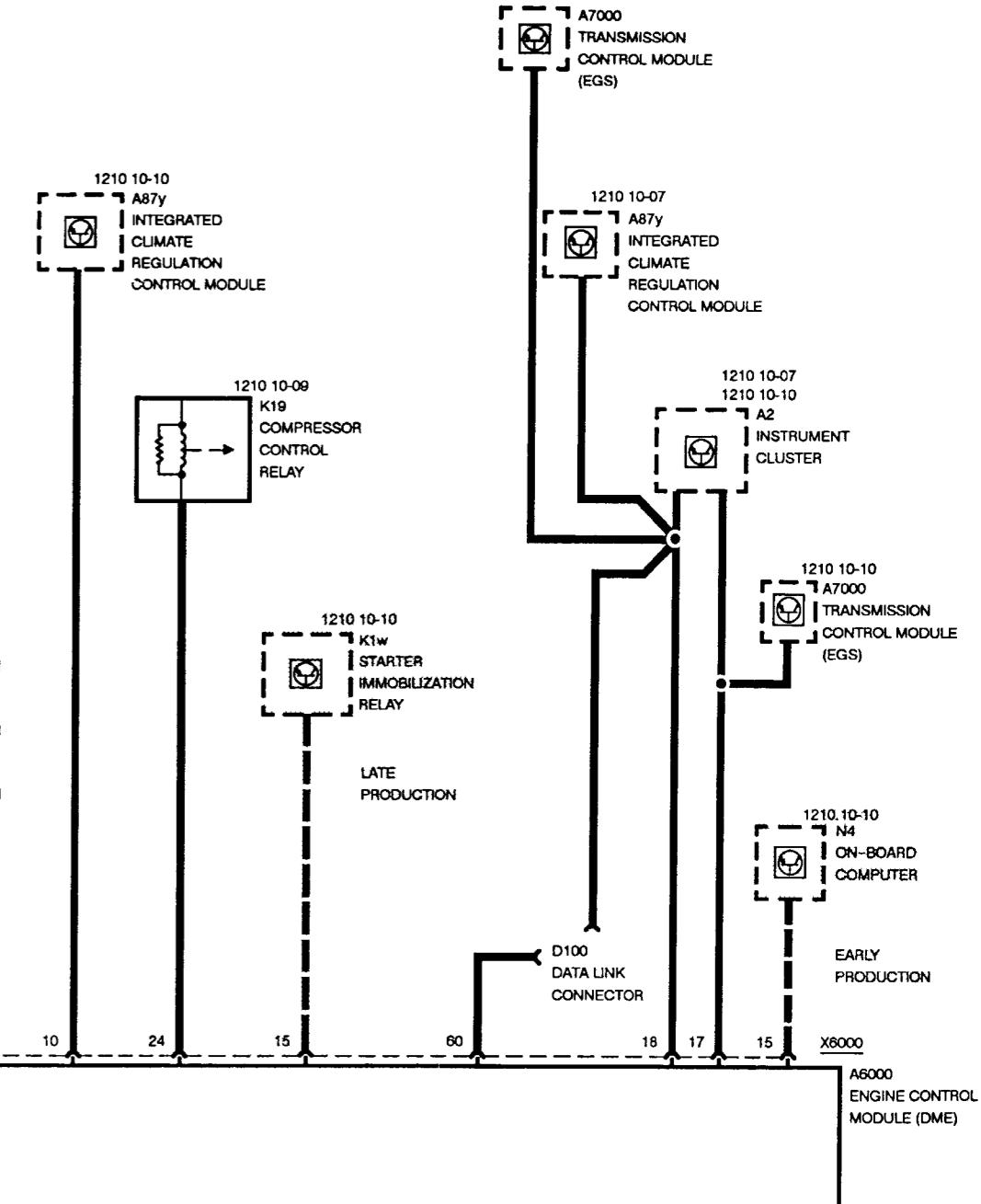
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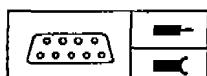


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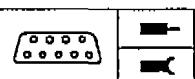


Pin Assignments

X6000

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

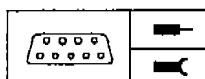
E = Input, A = Output, M = Ground



Pin Assignments

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

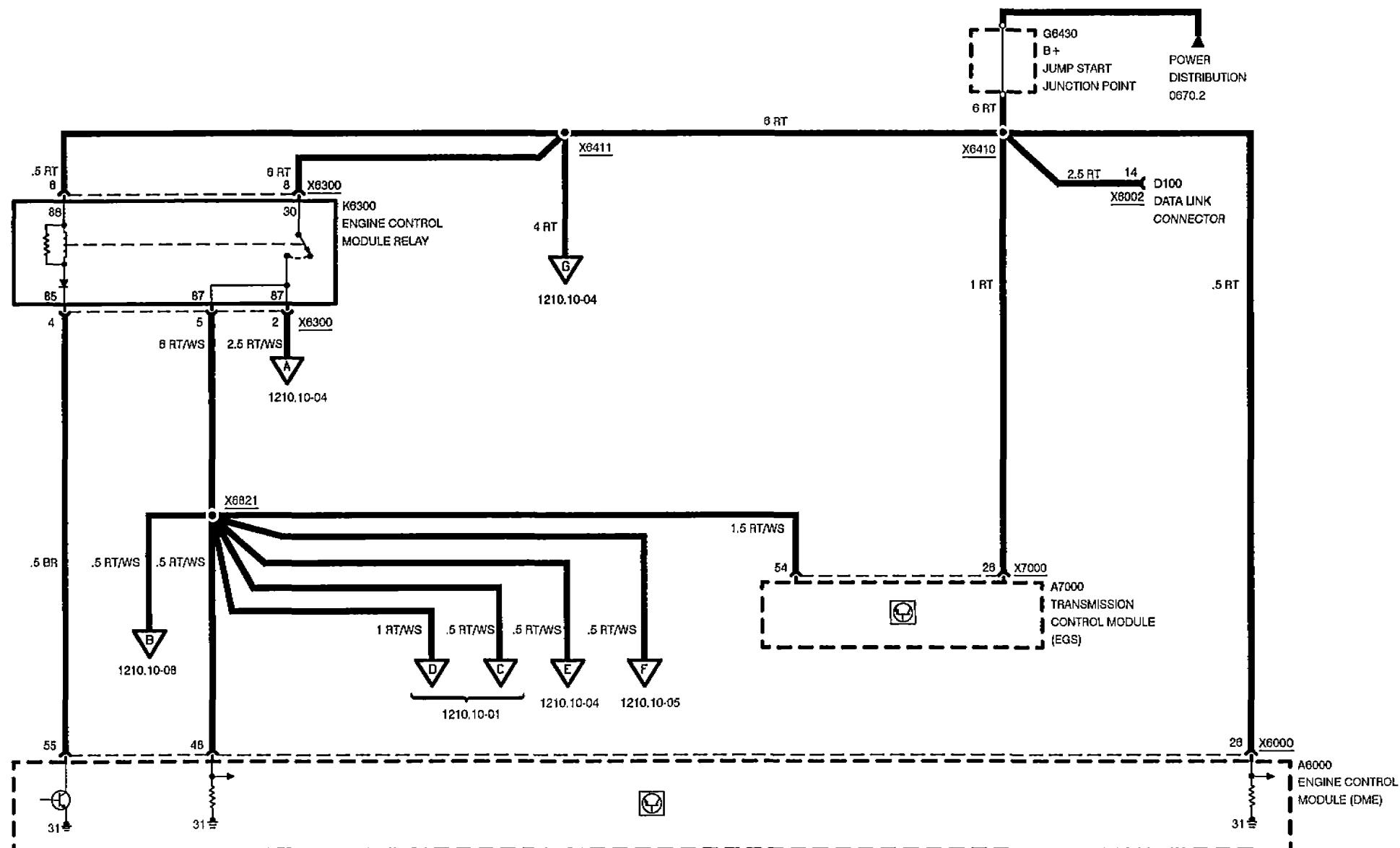
E = Input, A = Output, M = Ground



Pin Assignments

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

E = Input, A = Output, M = Ground

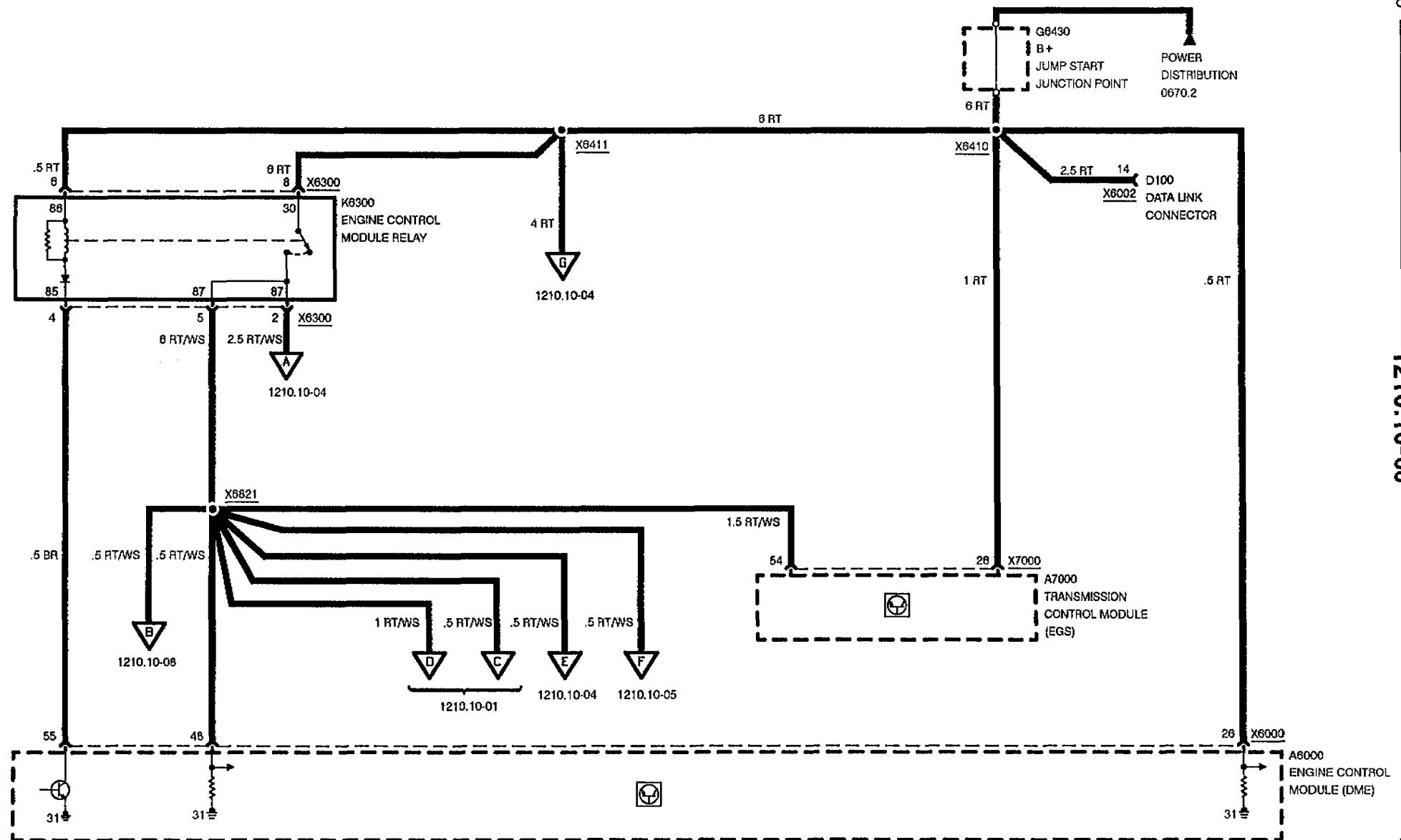


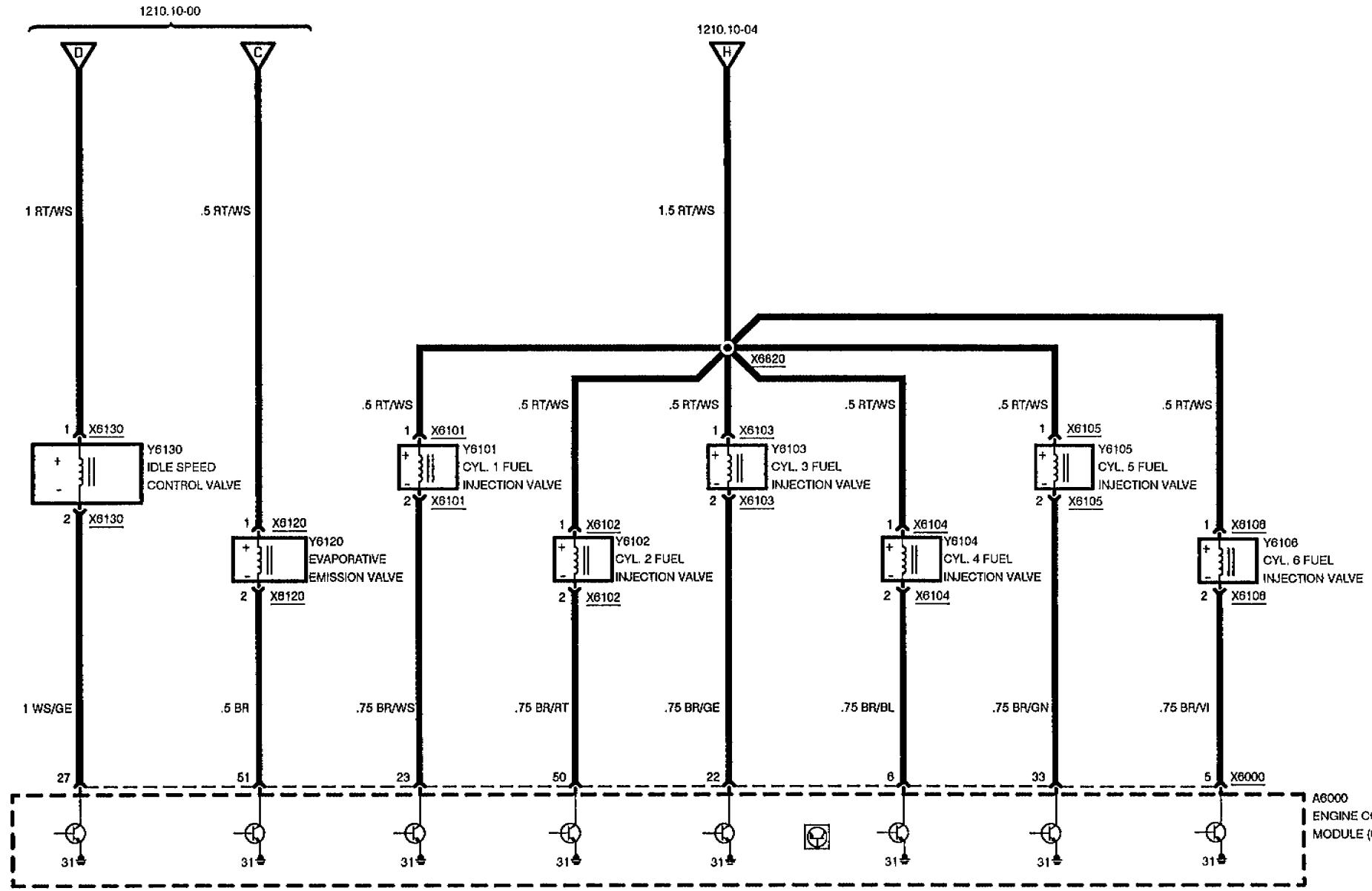


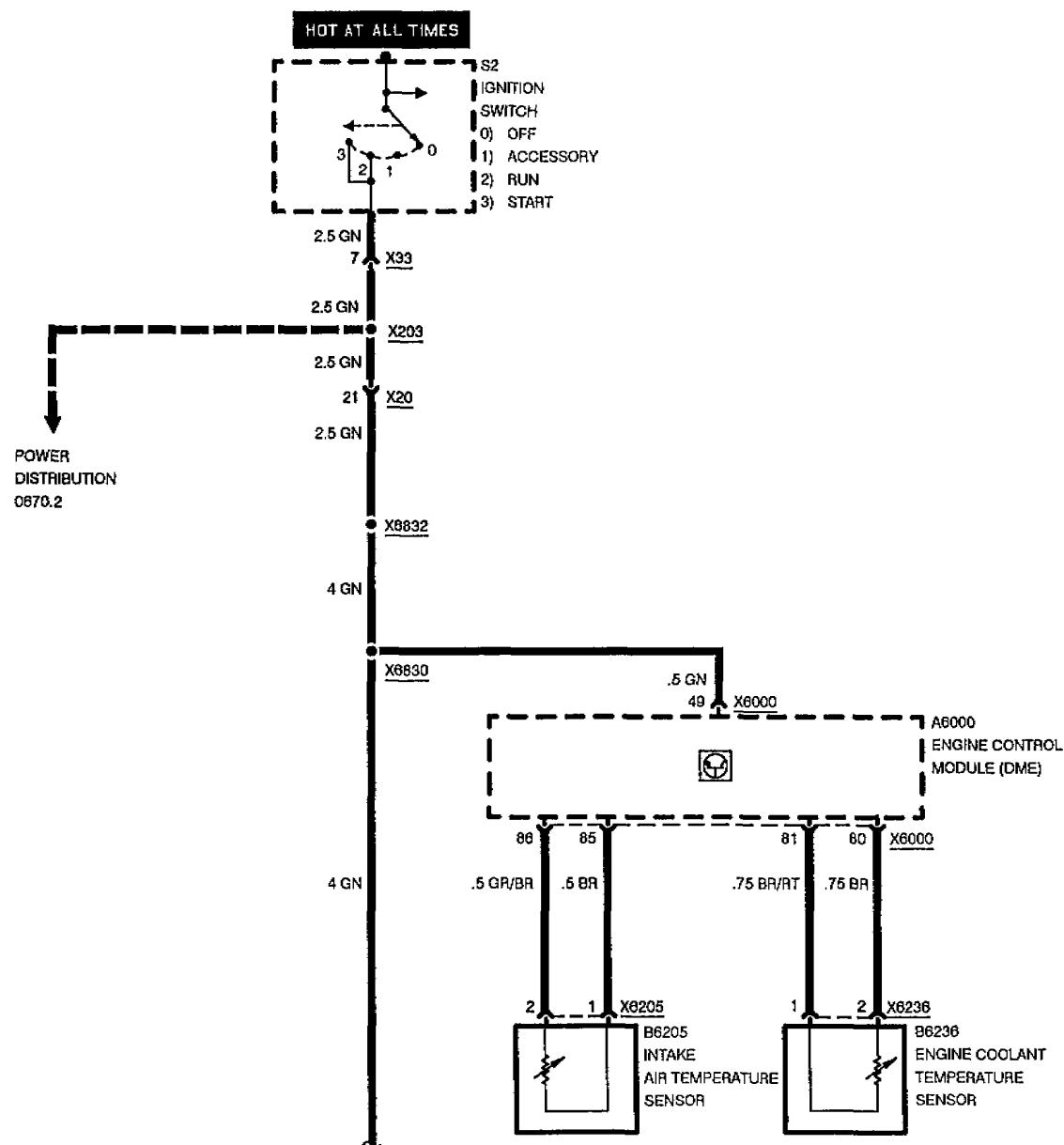
ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

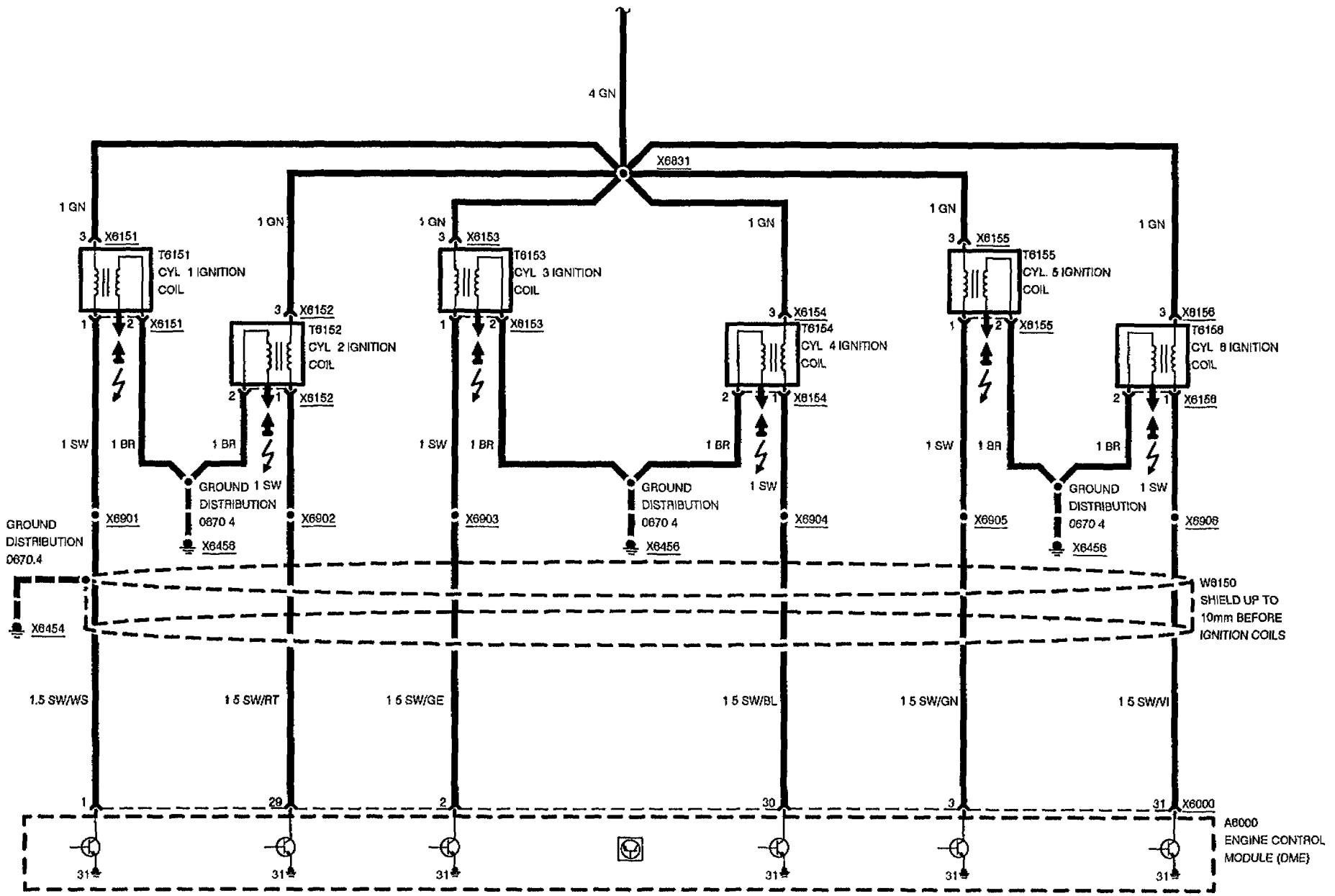
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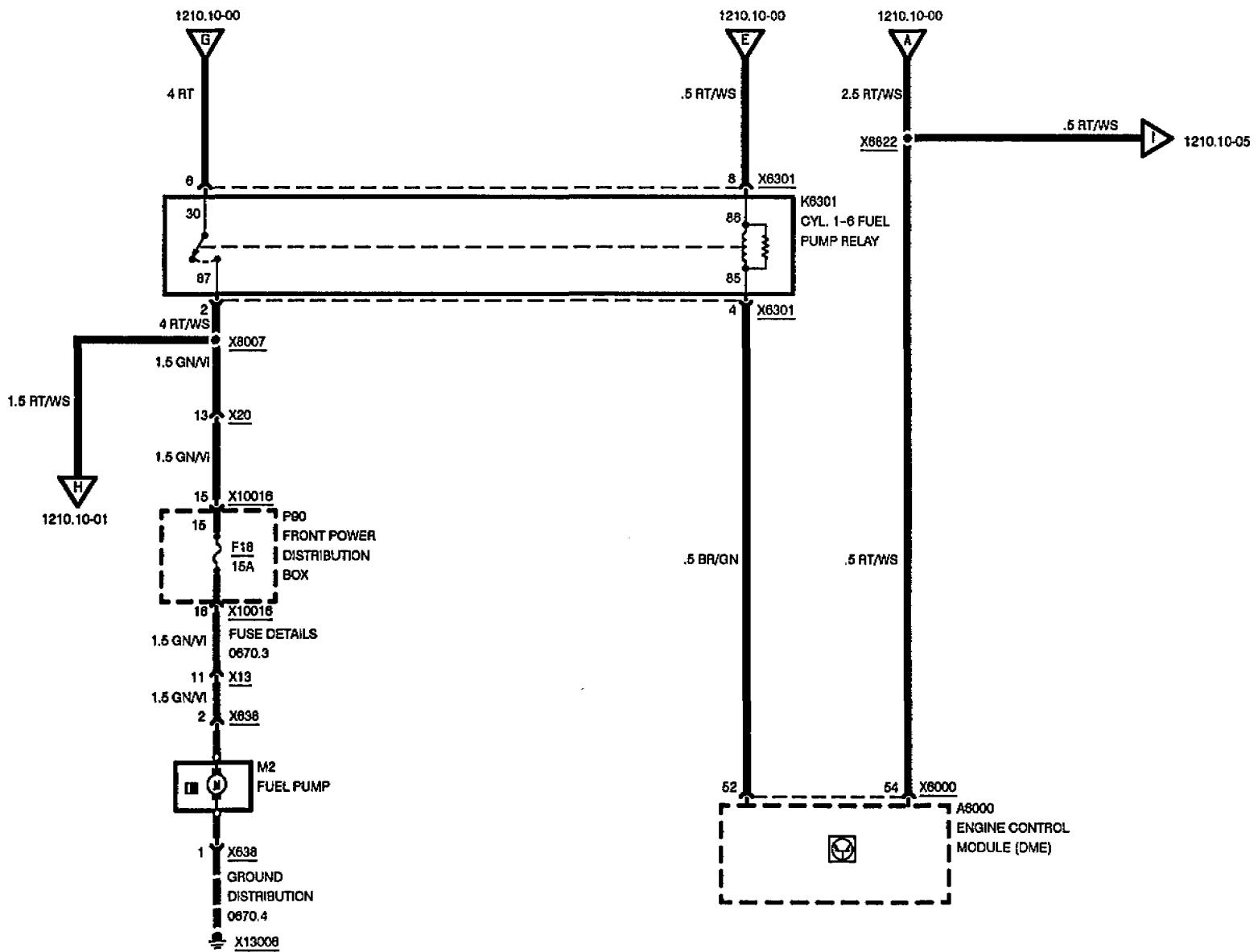
POWER

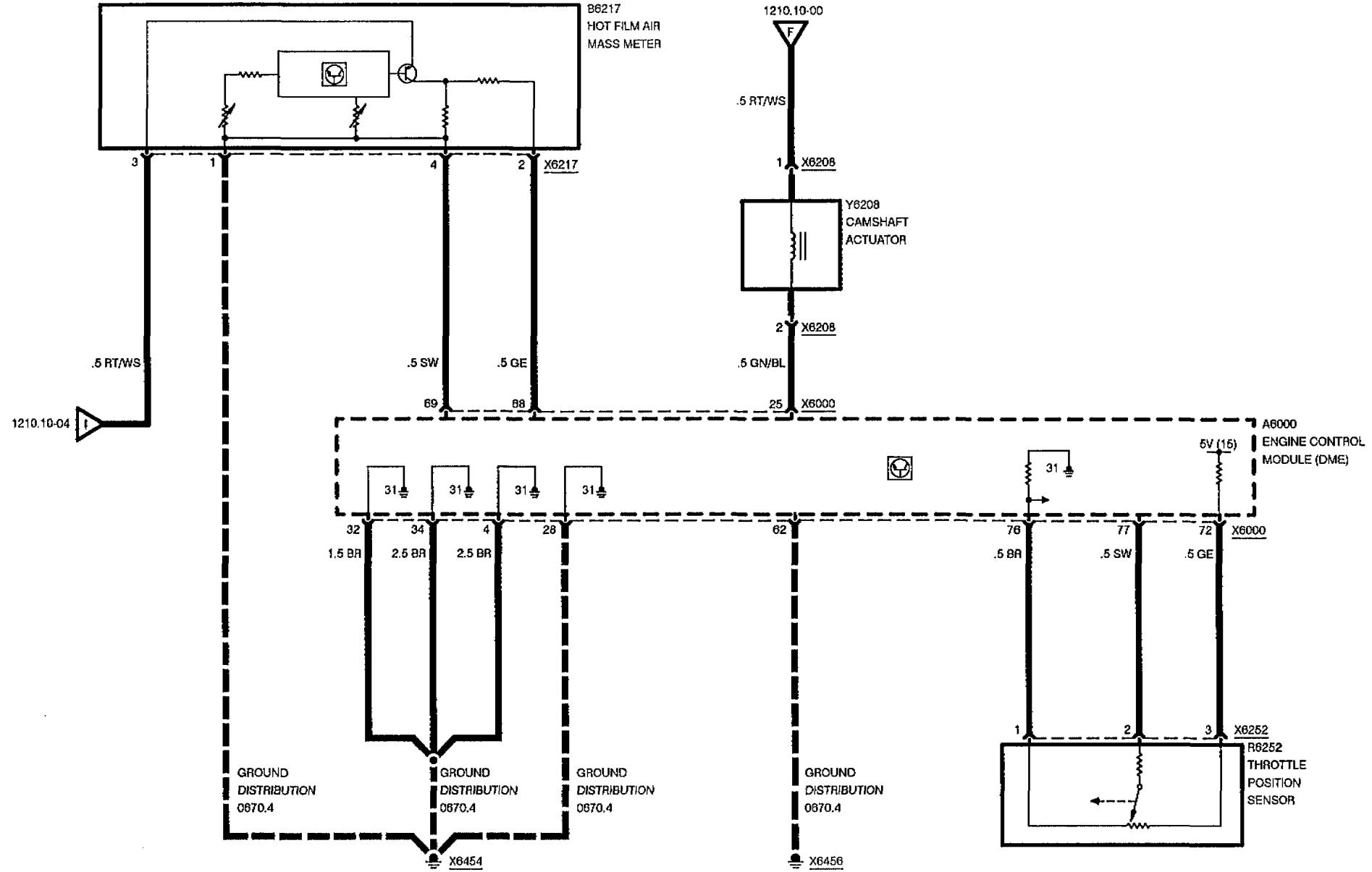


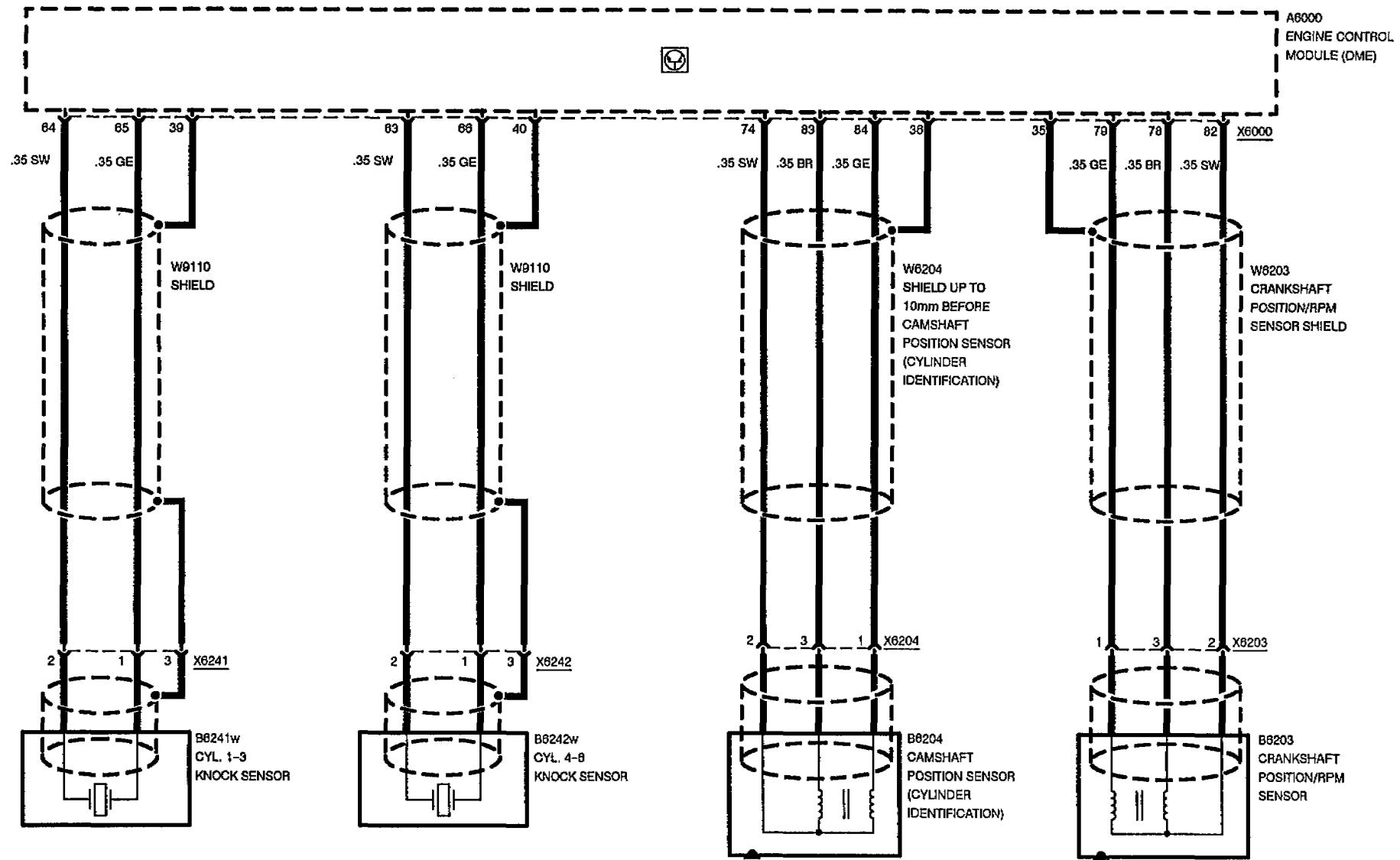




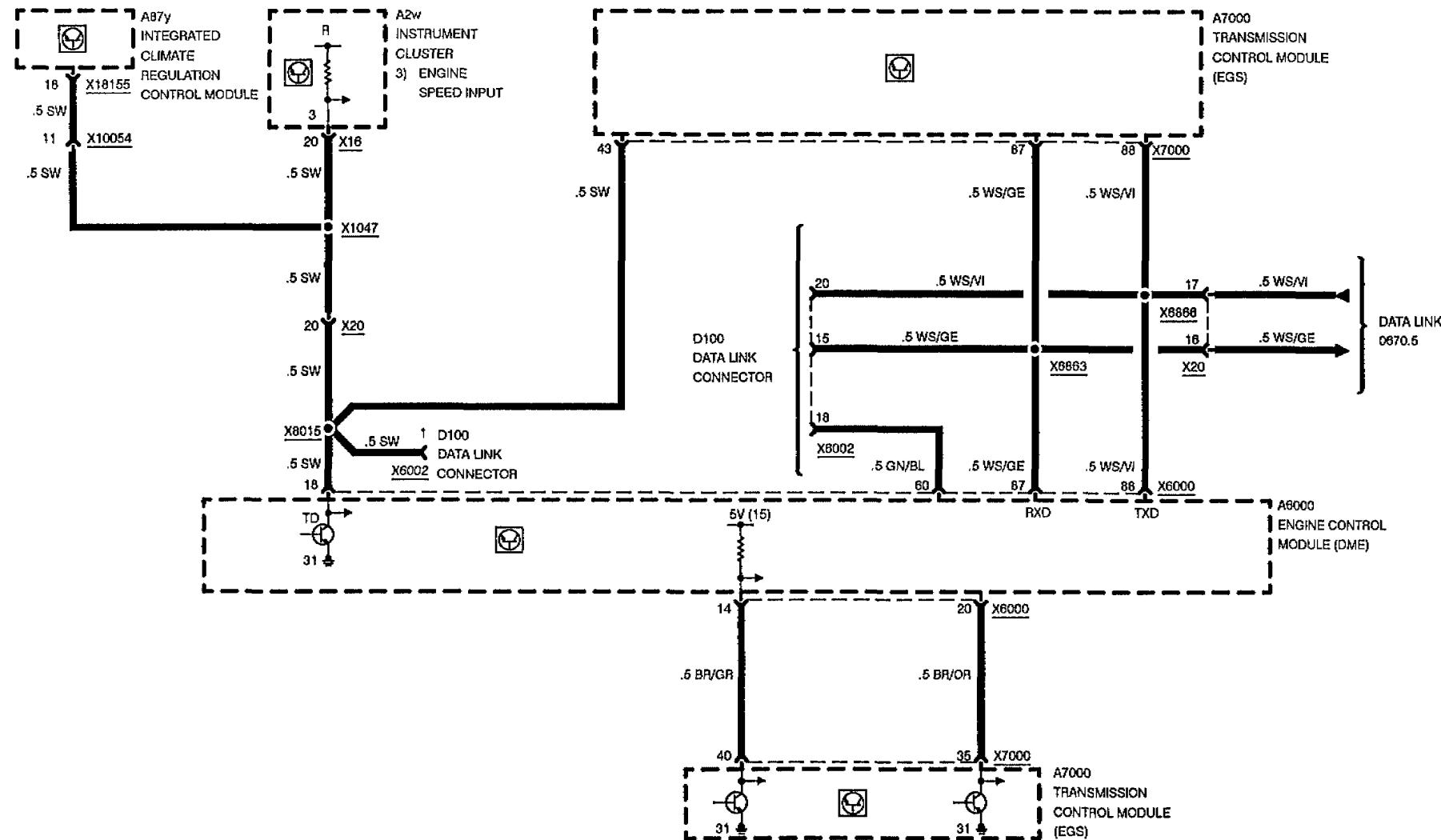


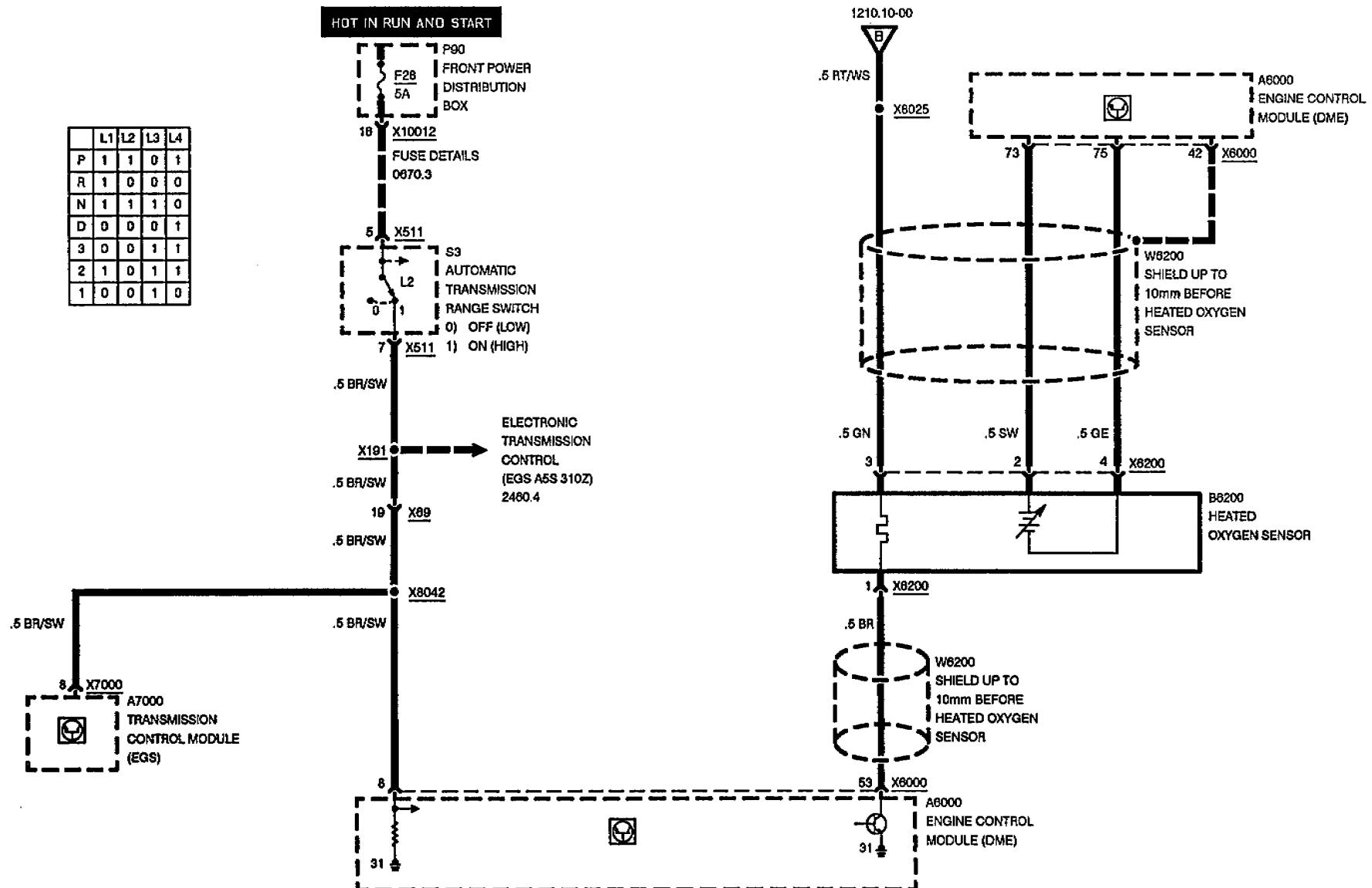




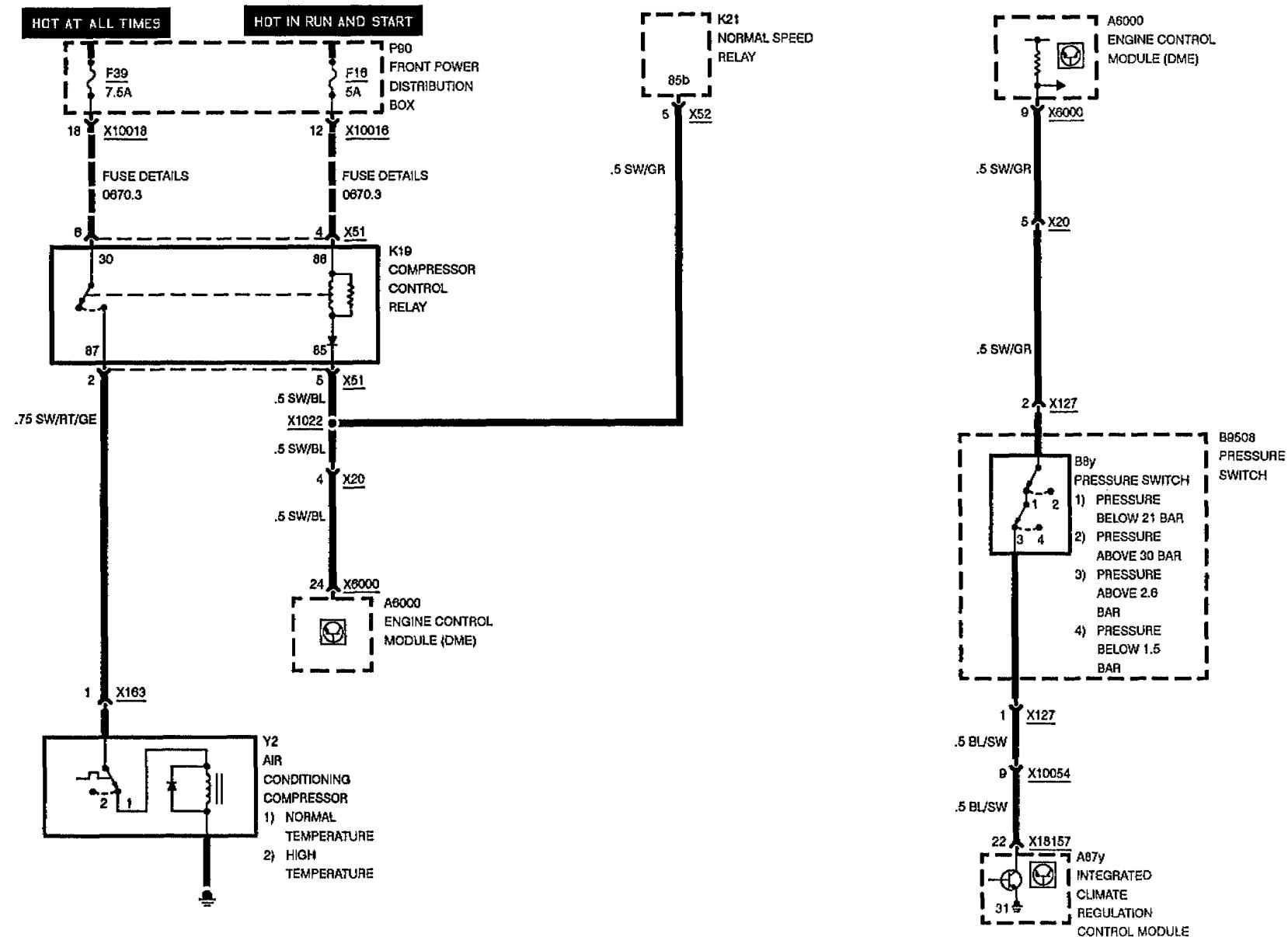


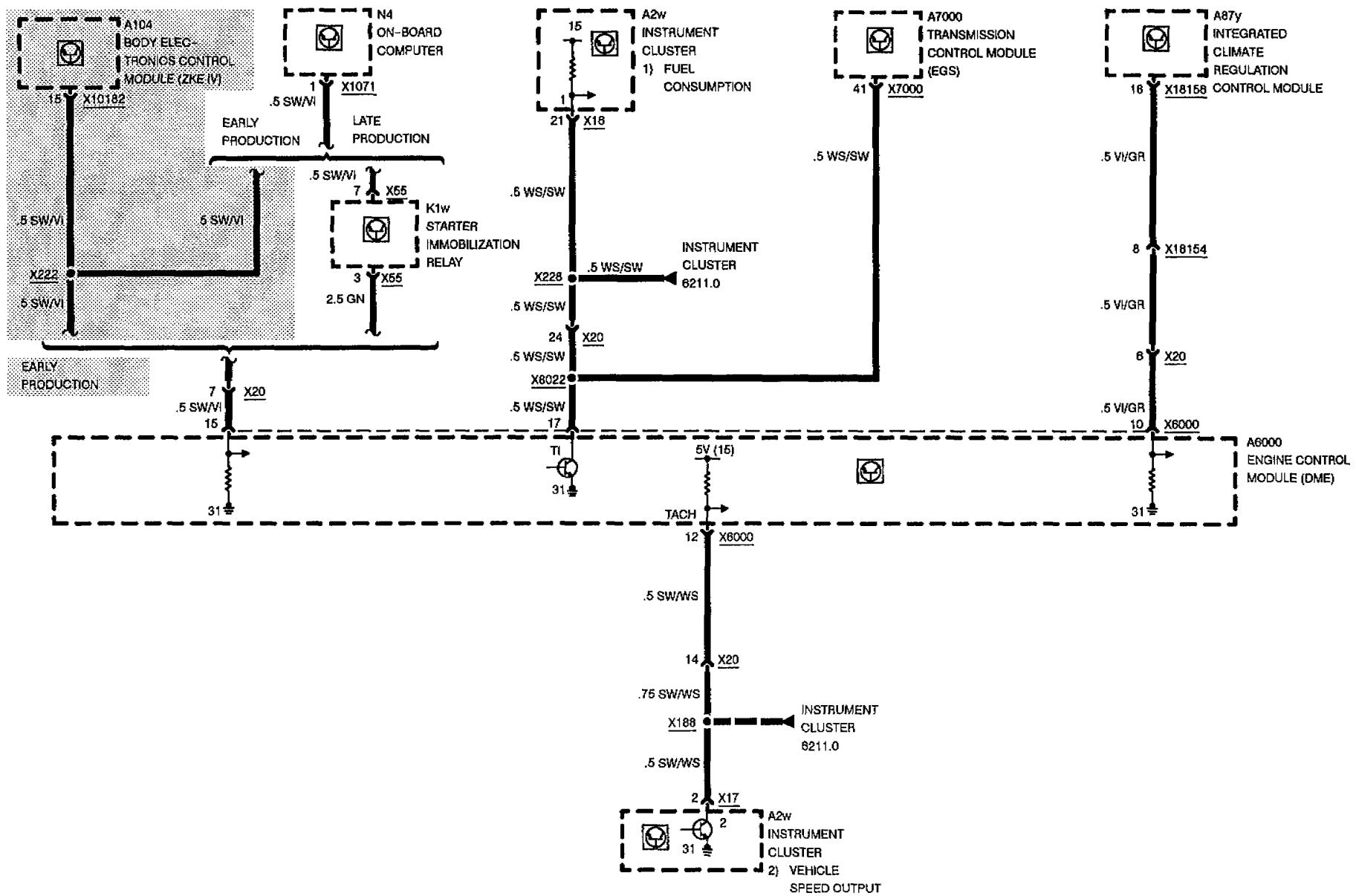
ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)



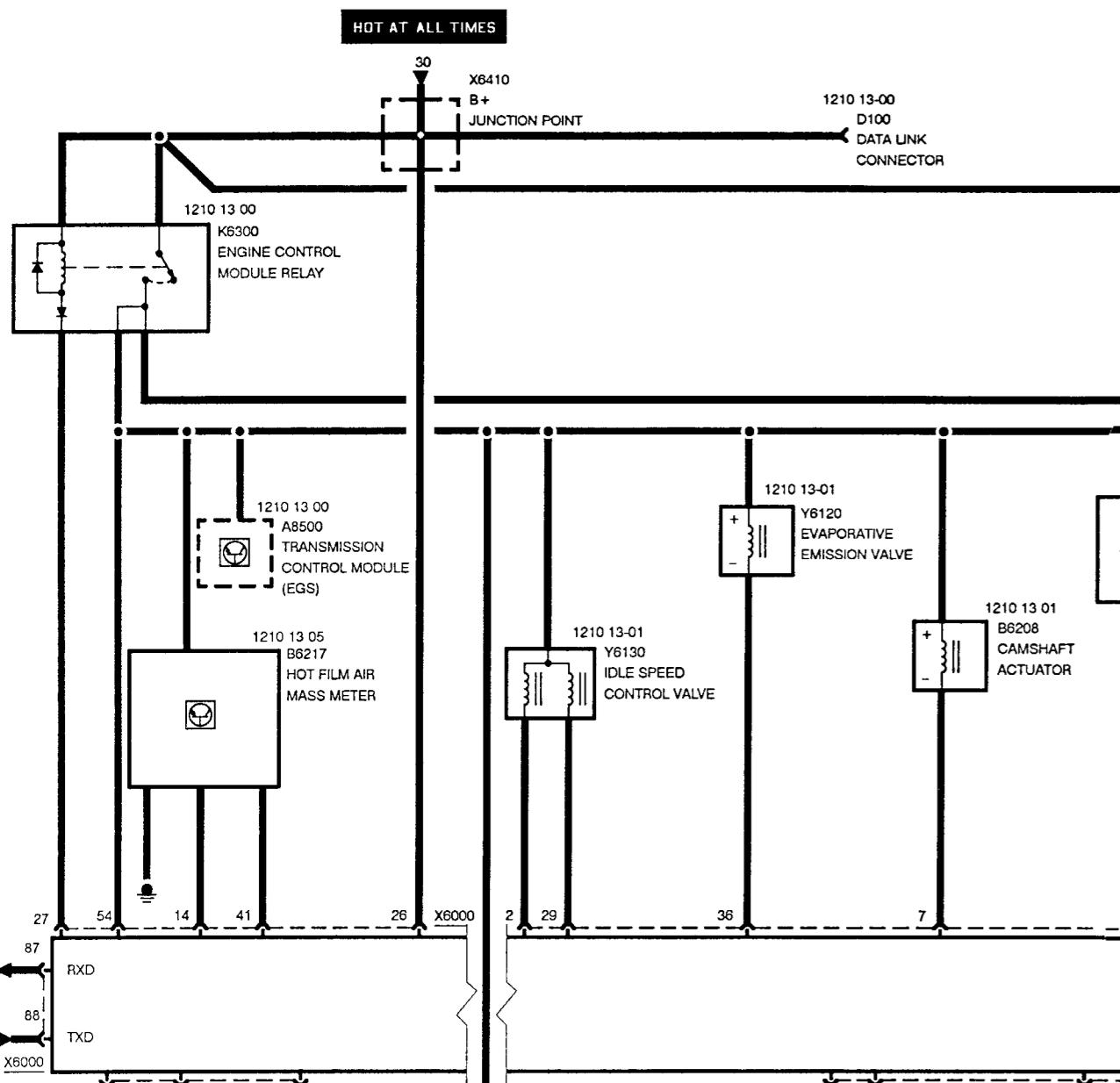


ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

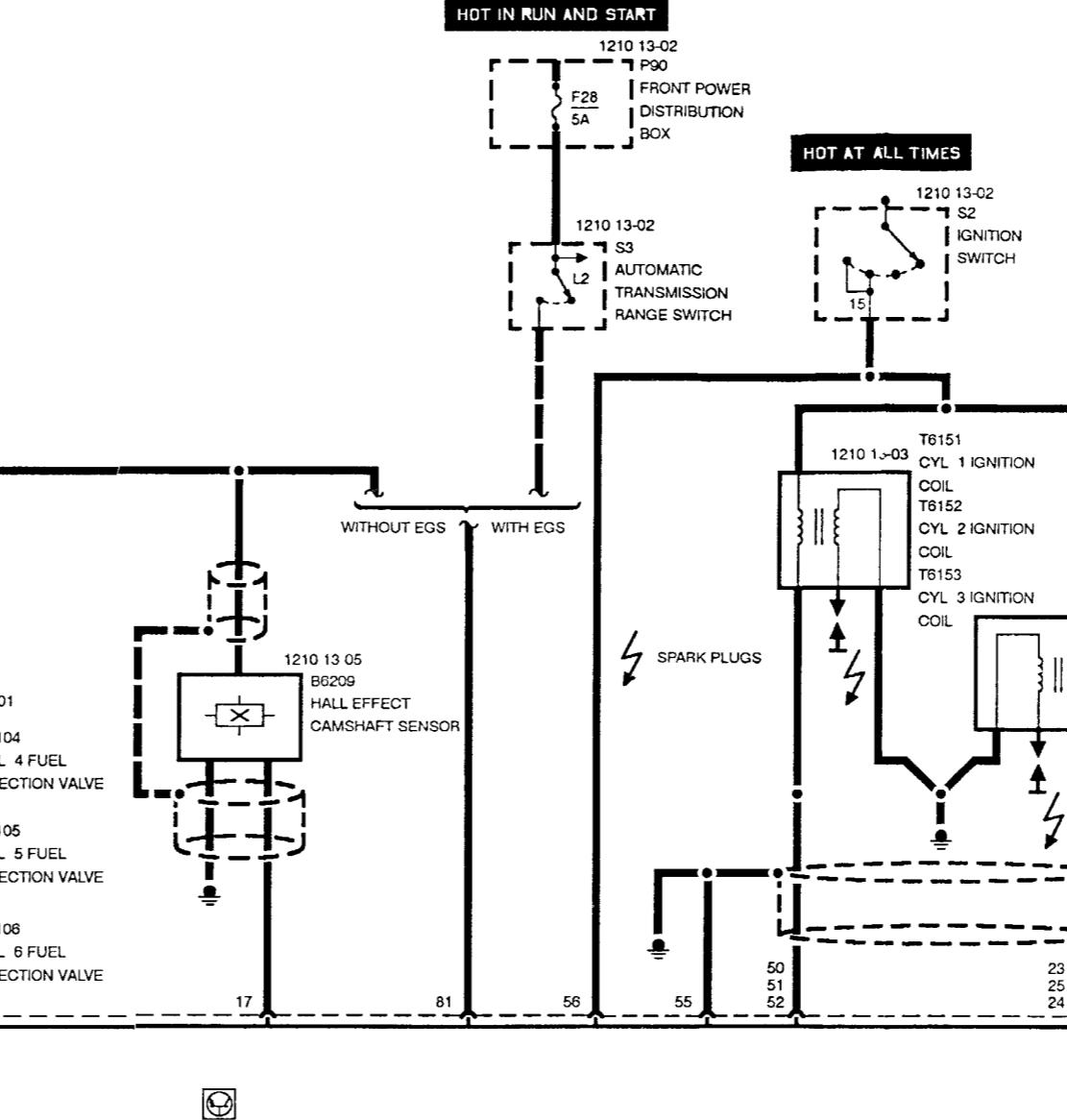




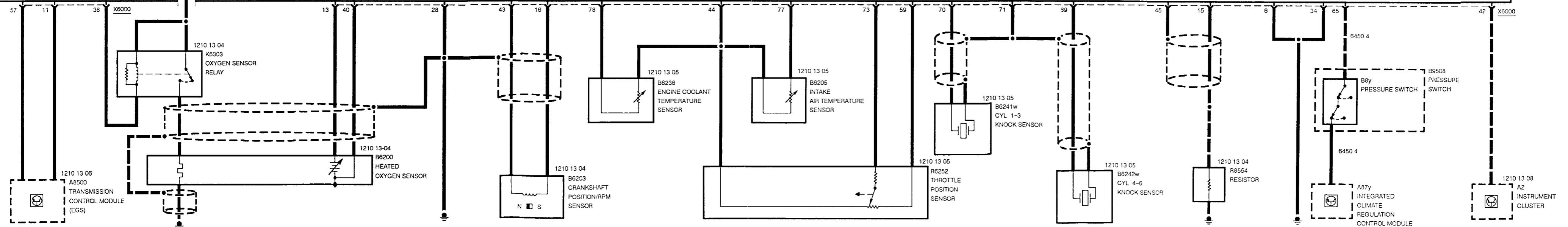
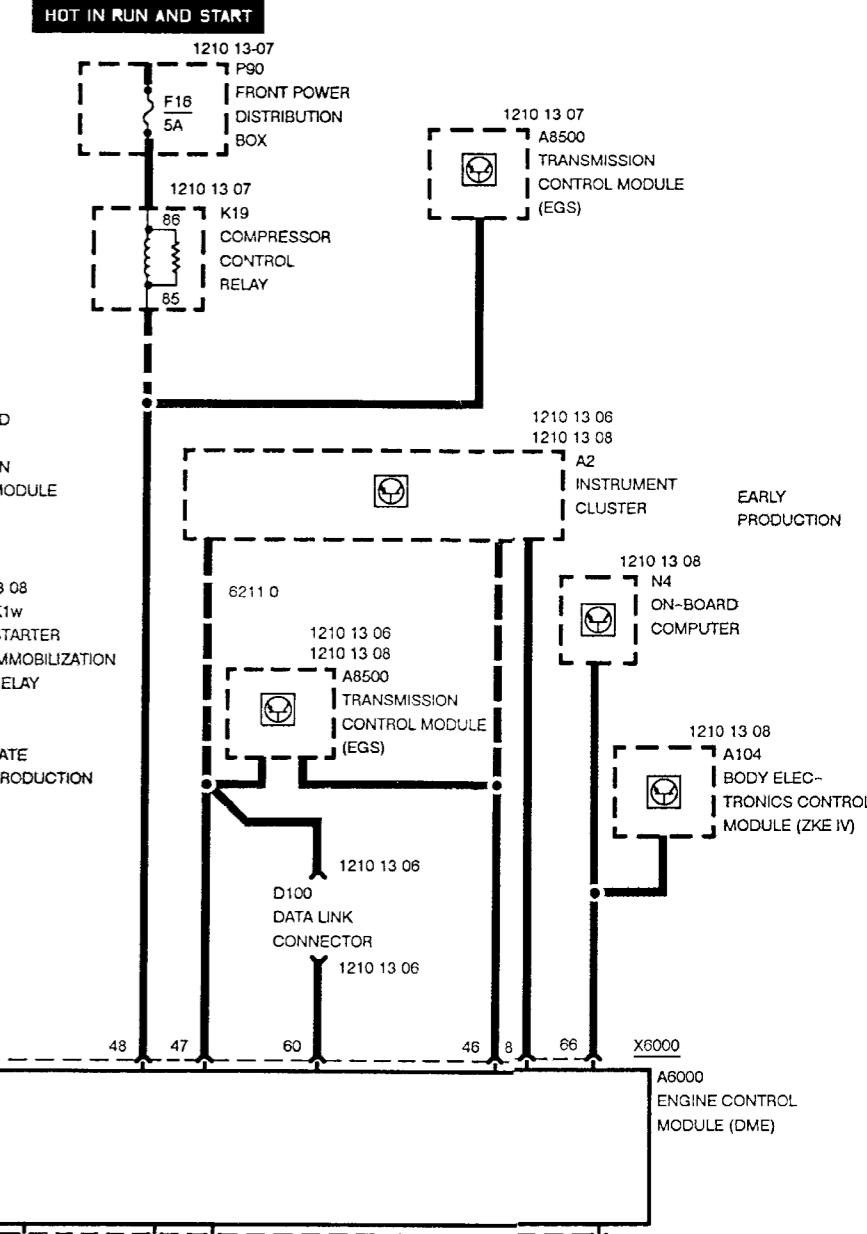
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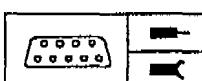


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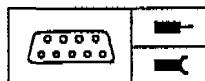


Pin Assignments

X6000

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

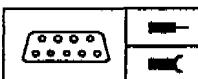
E = Input, A = Output, M = Ground



Pin Assignments

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

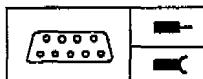
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
58		Not used	
59	A	5V component supply	Throttle position sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64	E	A/C switch	Integrated climate regulation control module
65	E	A/C pressure signal	Pressure switch
66	E	Drive-away protection signal (code)	On-board computer/Body electronics control module (early production)
66	E	Drive-away protection signal (code)	Starter immobilization relay (late production)
67		Not used	
68		Not used	
69	E	Cyl. 4-6 knock sensor	Cyl. 4-6 knock sensor
70	E	Cyl. 1-3 knock sensor	Cyl. 1-3 knock sensor
71	M	Ground for knock sensors and shields	Cyl. 1-3 knock sensor, cyl. 4-6 knock sensor, and shields
72		Not used	
73	E	Throttle position	Throttle position sensor
74		Not used	
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81	E	Drive range P/N	Automatic transmission range switch
82		Not used	
83		Not used	
84		Not used	
85		Not used	
86		Not used	

E = Input, A = Output, M = Ground



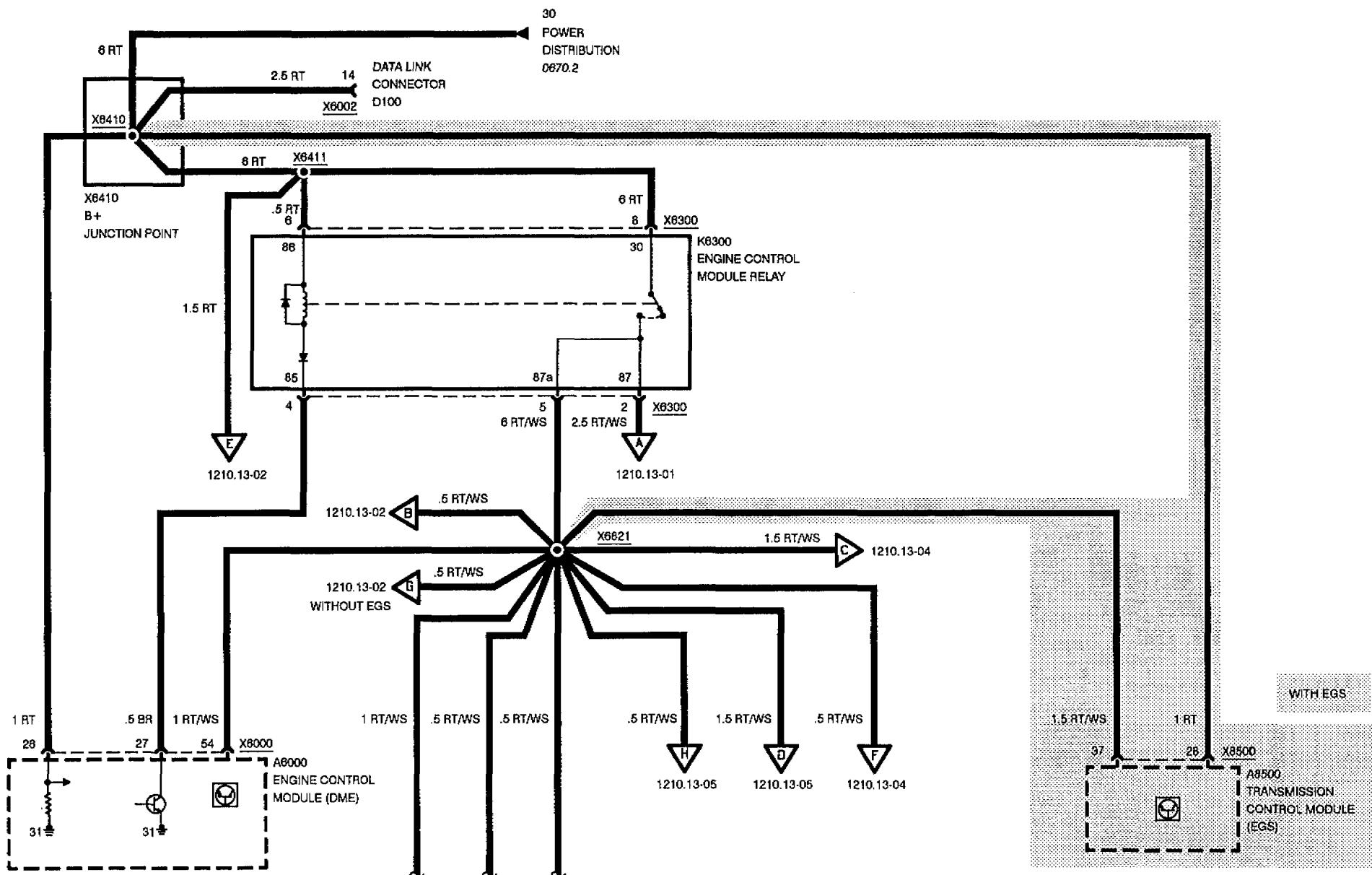
Pin Assignments

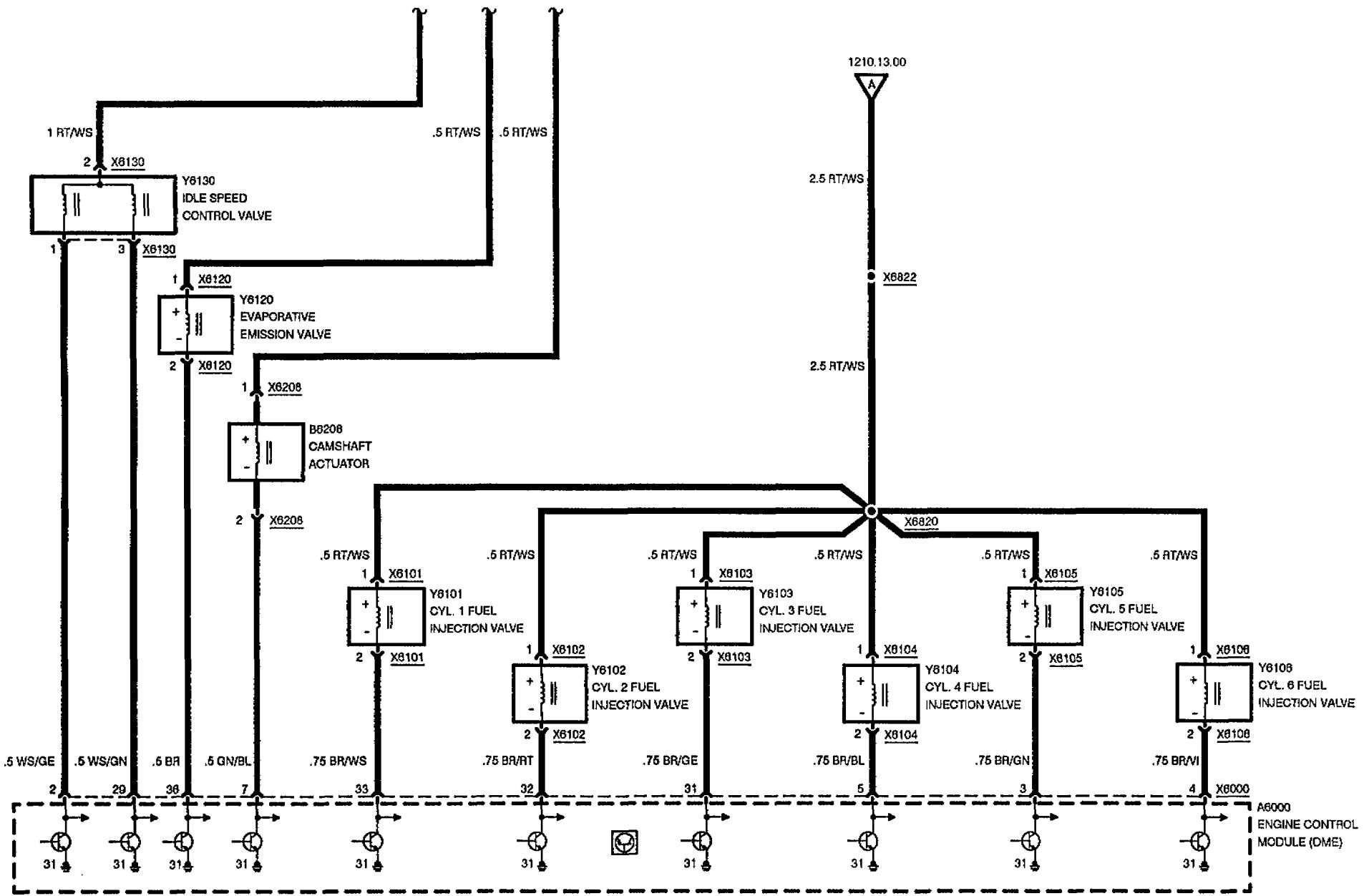
Pin	Type	Description/Function	Connection
87	E	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground



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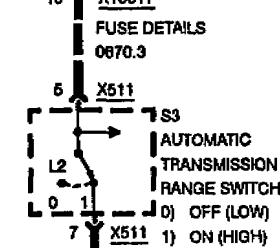
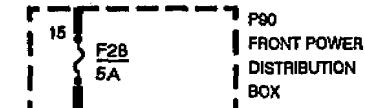


ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

FUEL PUMP, IGNITION COILS

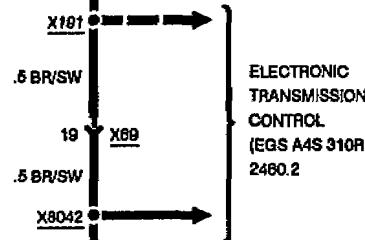
12/94

HOT IN RUN AND START

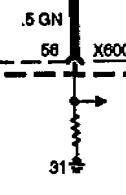
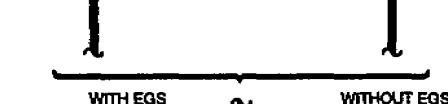


	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

.5 BR/SW

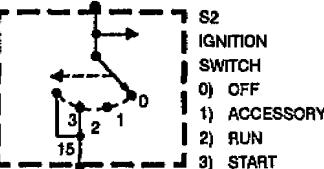


.5 BR/SW



31

HOT AT ALL TIMES



HOT IN RUN AND START

4 GN



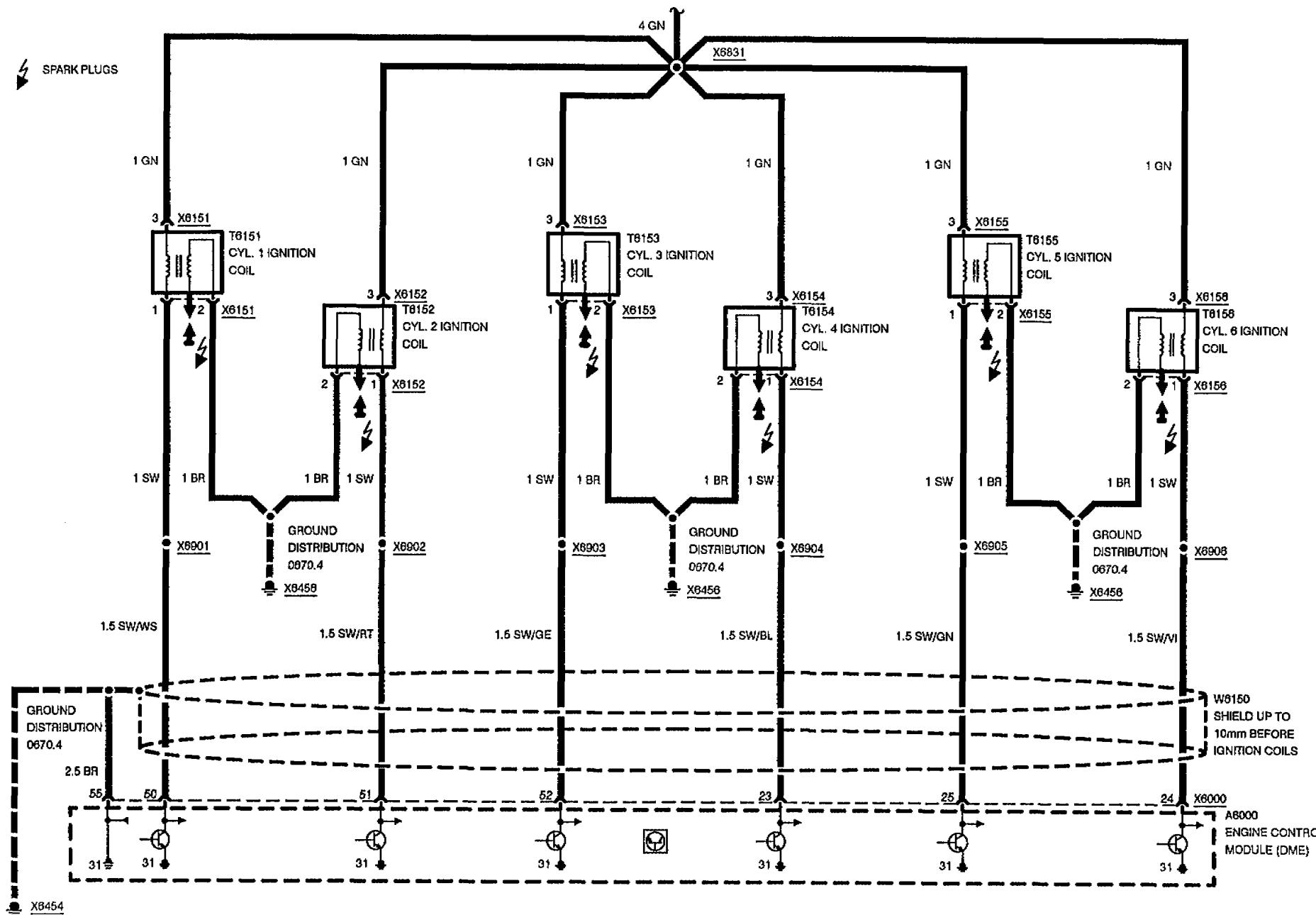
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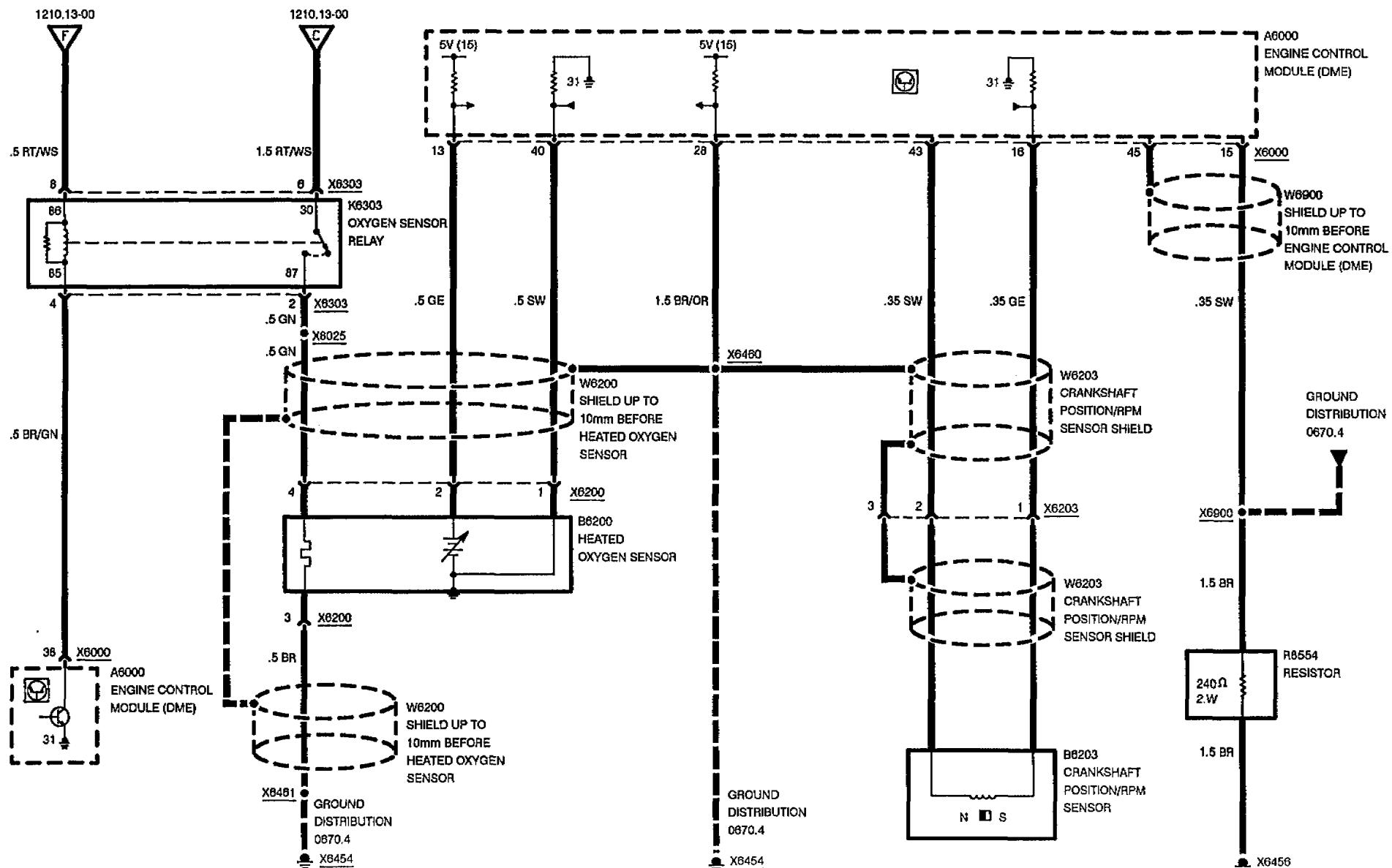
X638 GROUND DISTRIBUTION 0670.4

X13006

1210.13-02

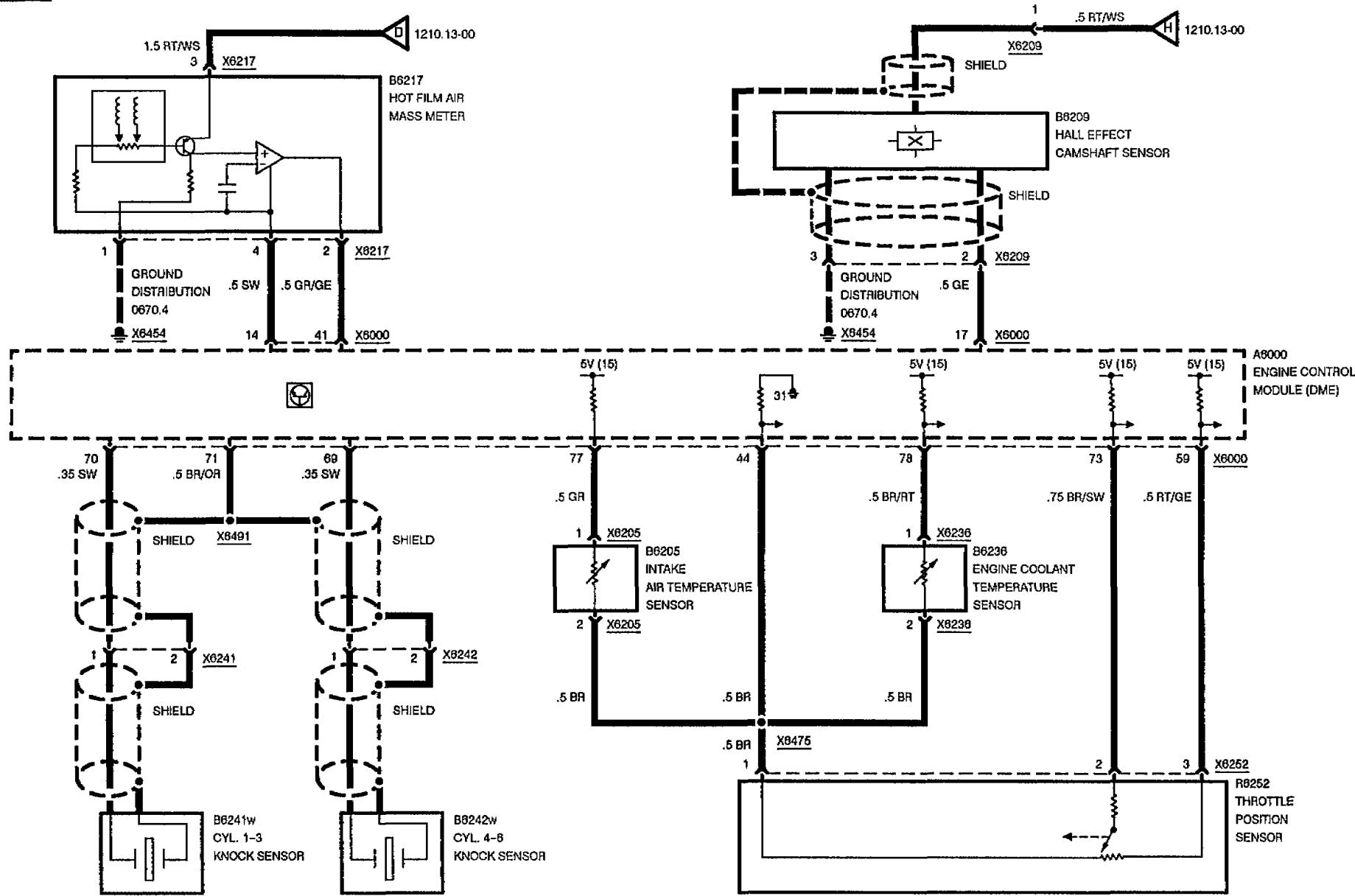
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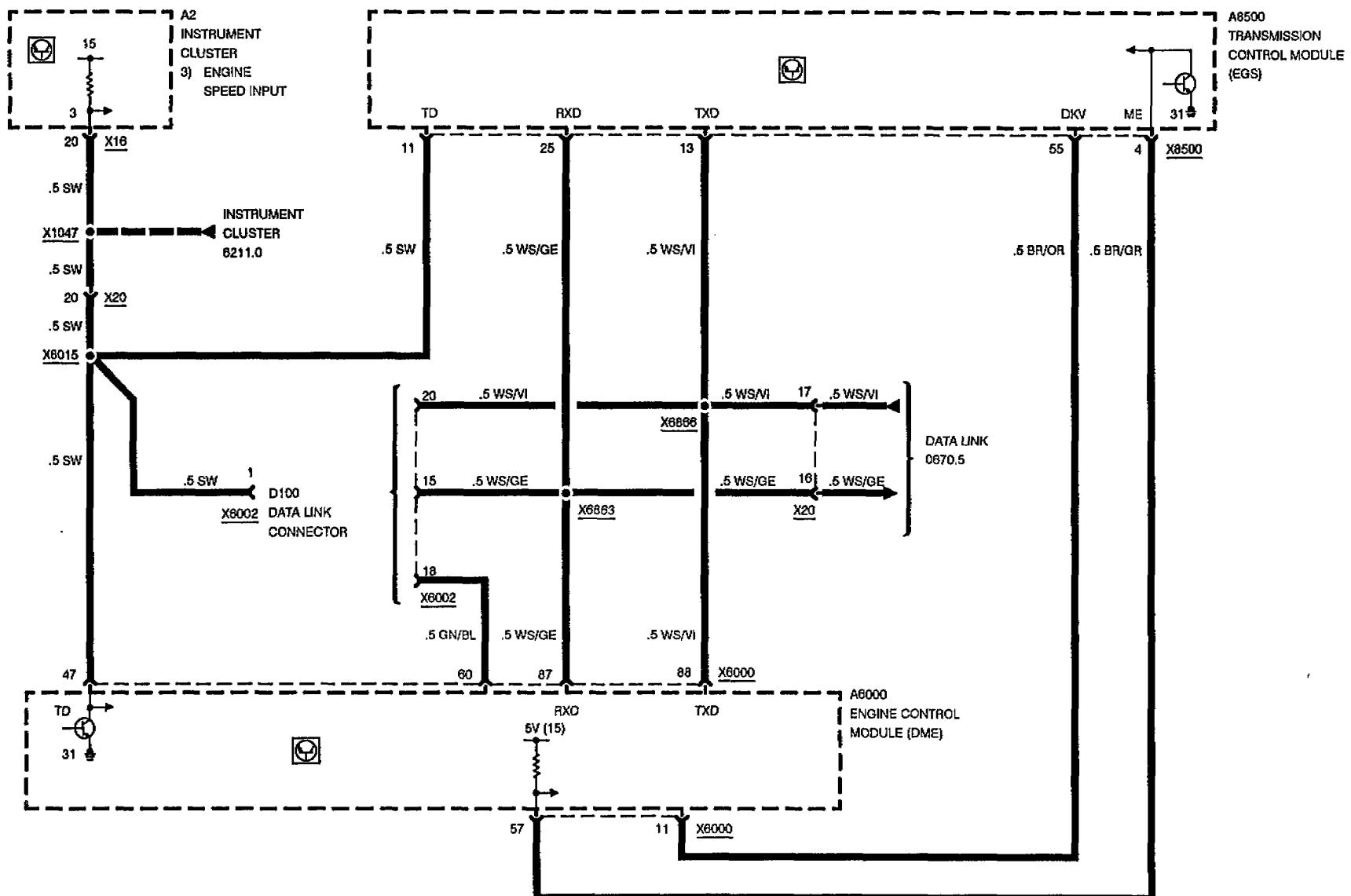




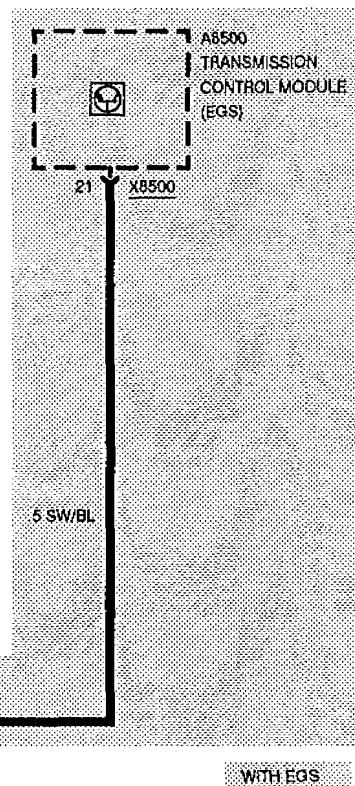
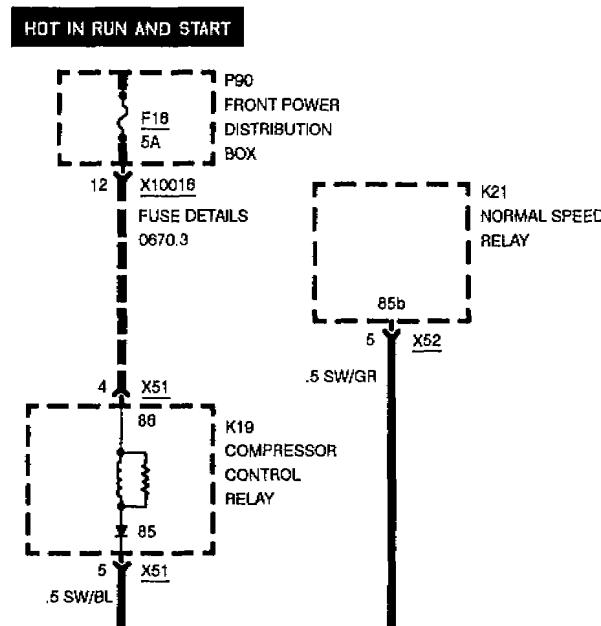
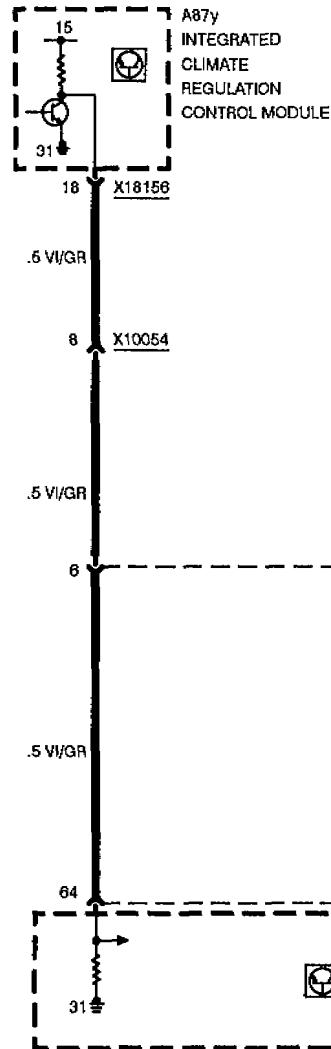
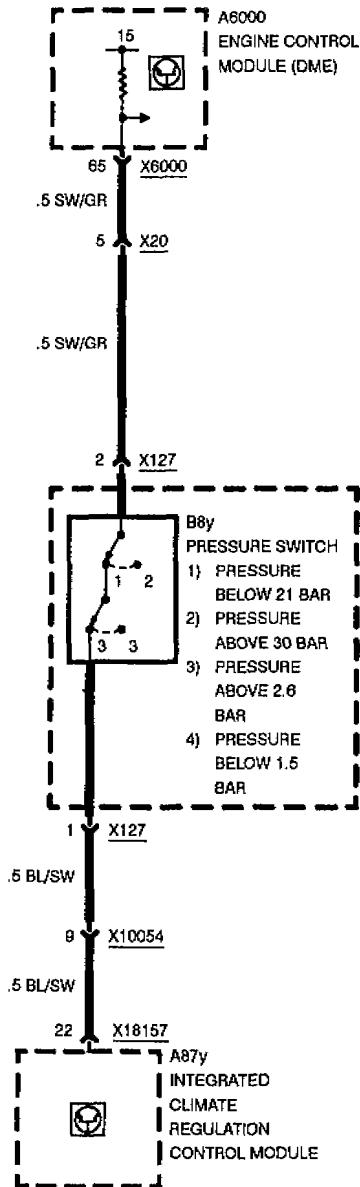


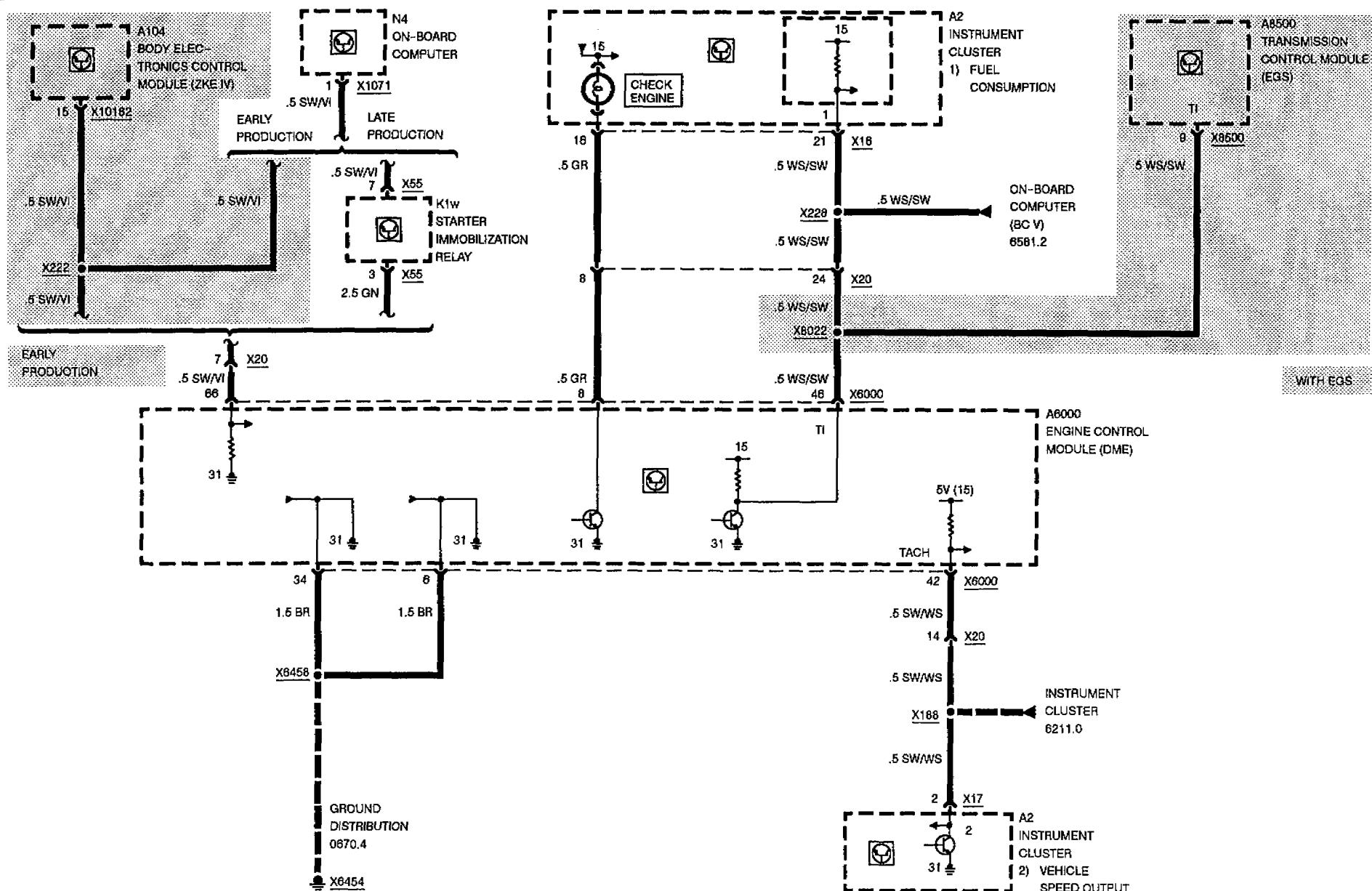
ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



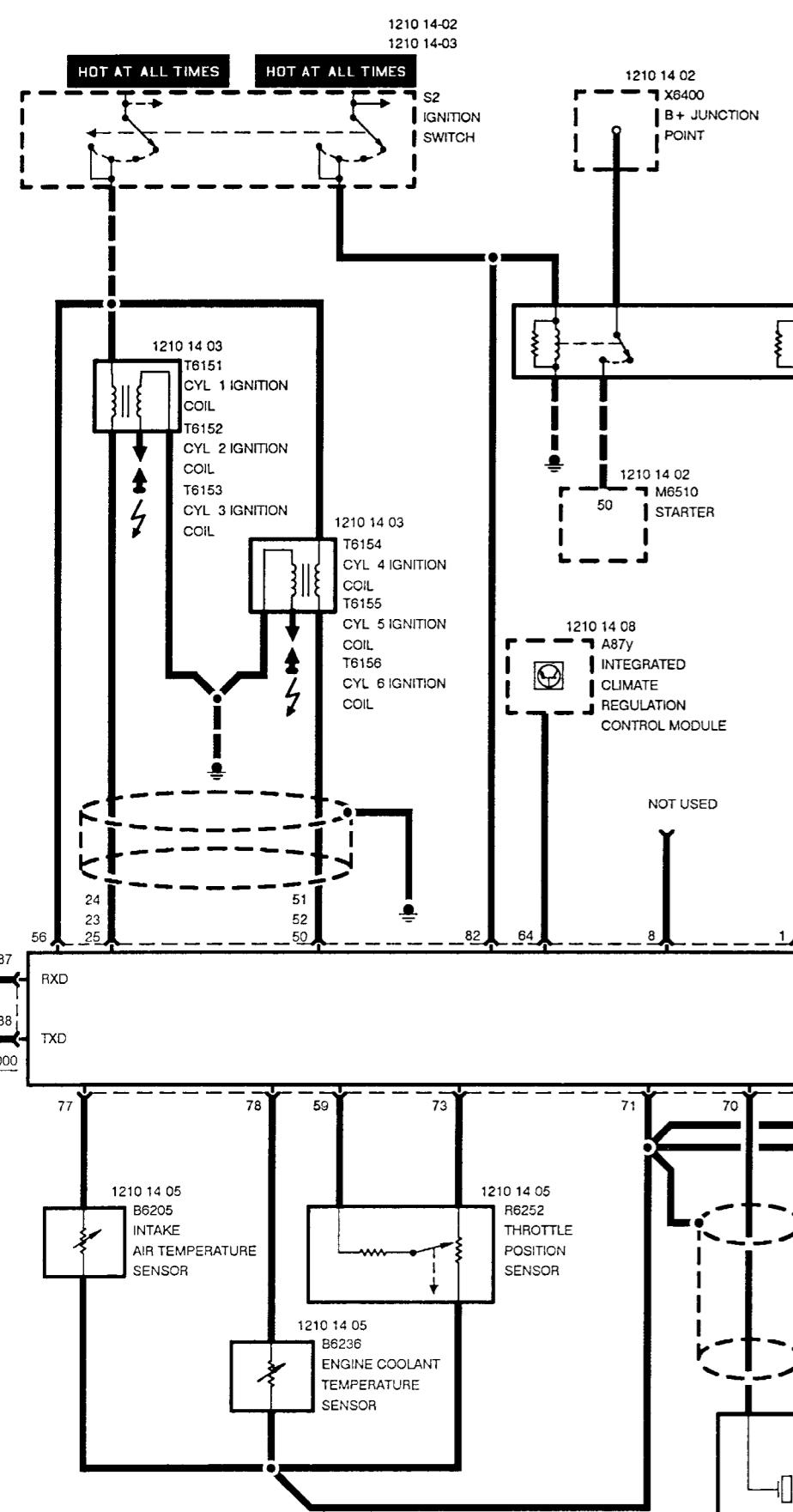


ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

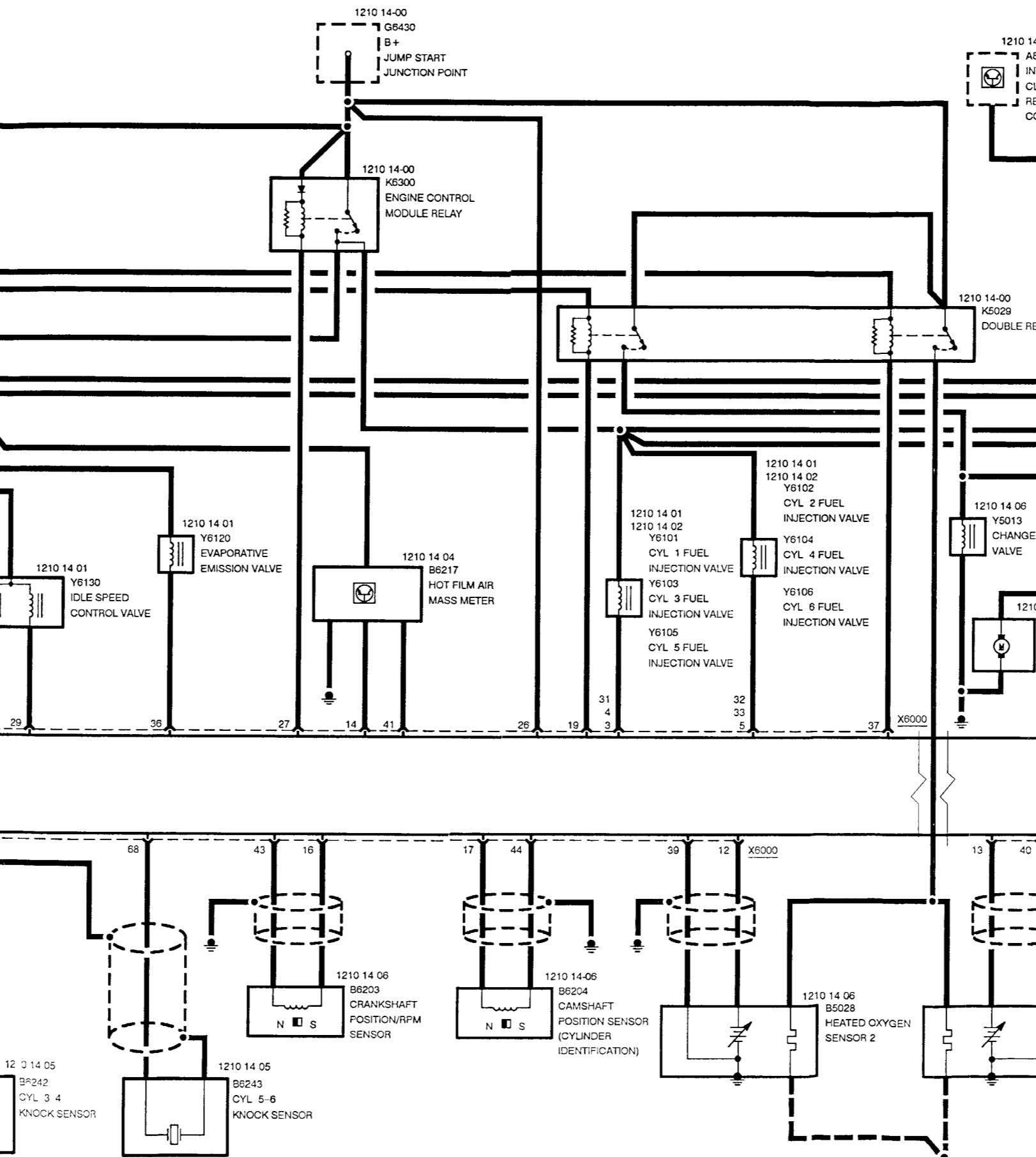




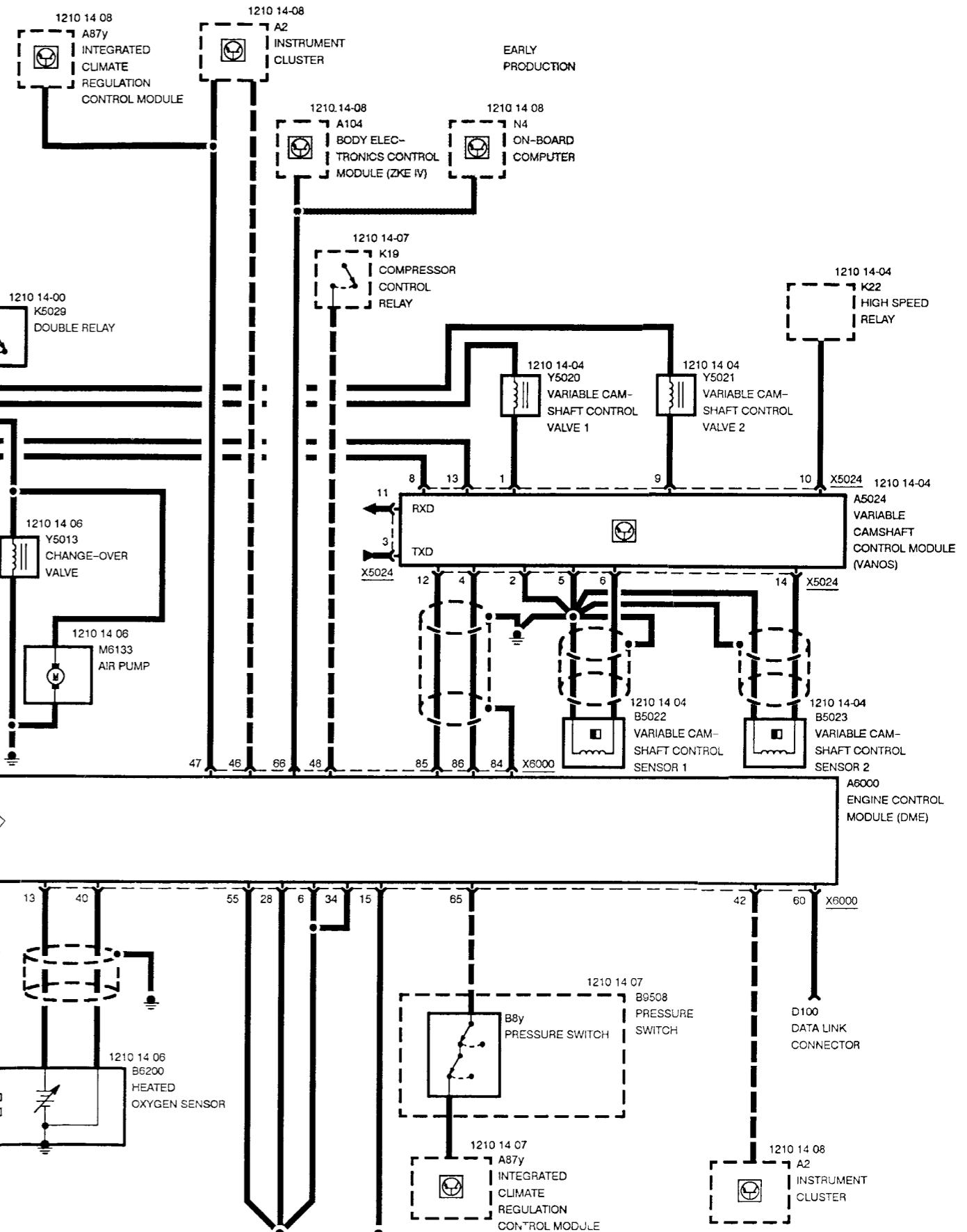
12/94 ————— 1210 14 ————— 1994

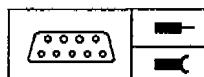


12/94 ————— 1210 14 ————— 1994



12/94 ————— 1210.14 ————— 1994





Pin Assignments

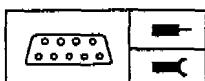
X5024

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

X6000

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

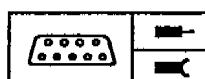
E = Input, A = Output, M = Ground



Pin Assignments

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

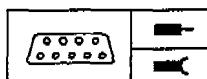
E = Input, A = Output, M = Ground



Pin Assignments

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

E = Input, A = Output, M = Ground



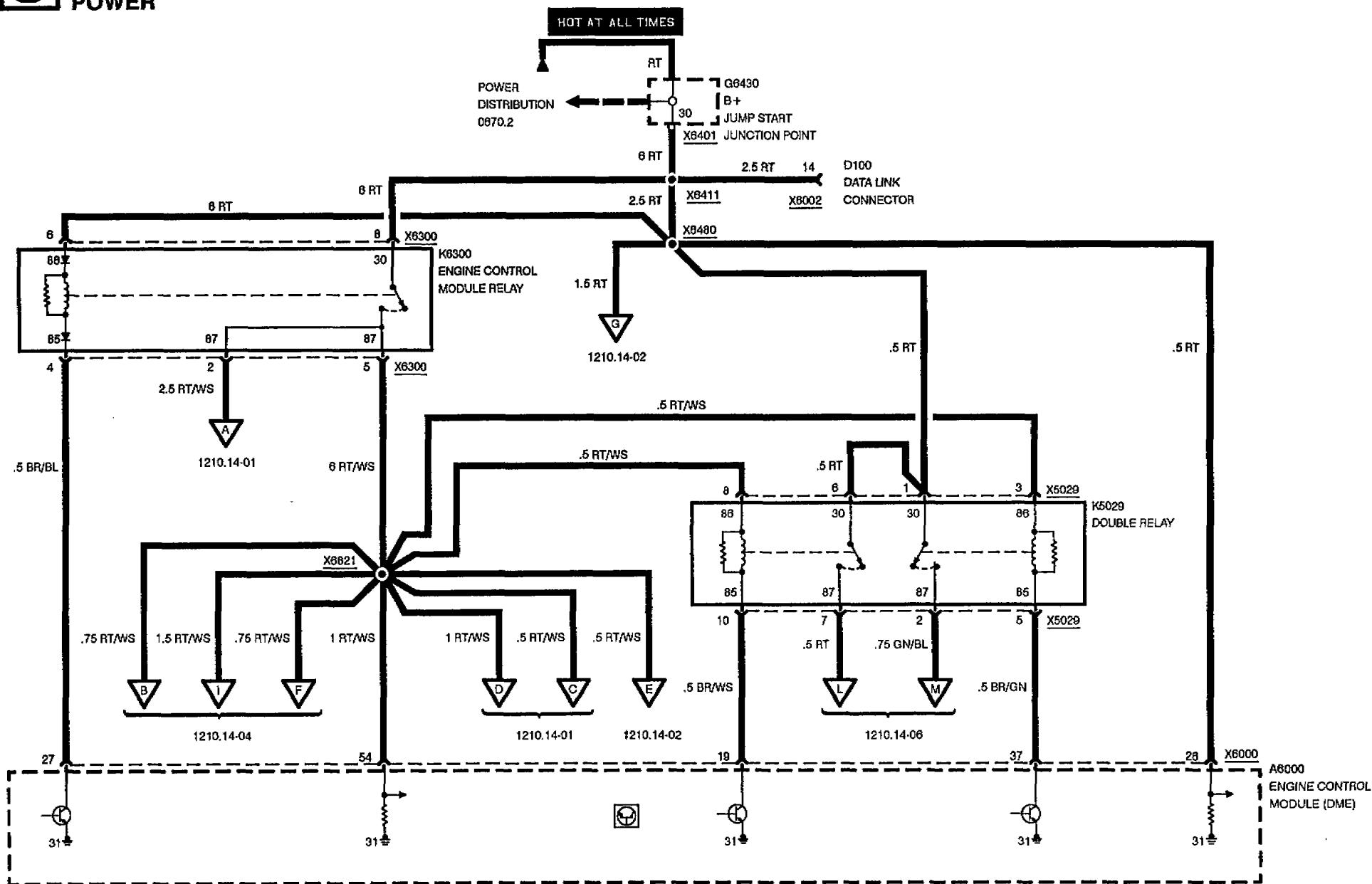
Pin Assignments

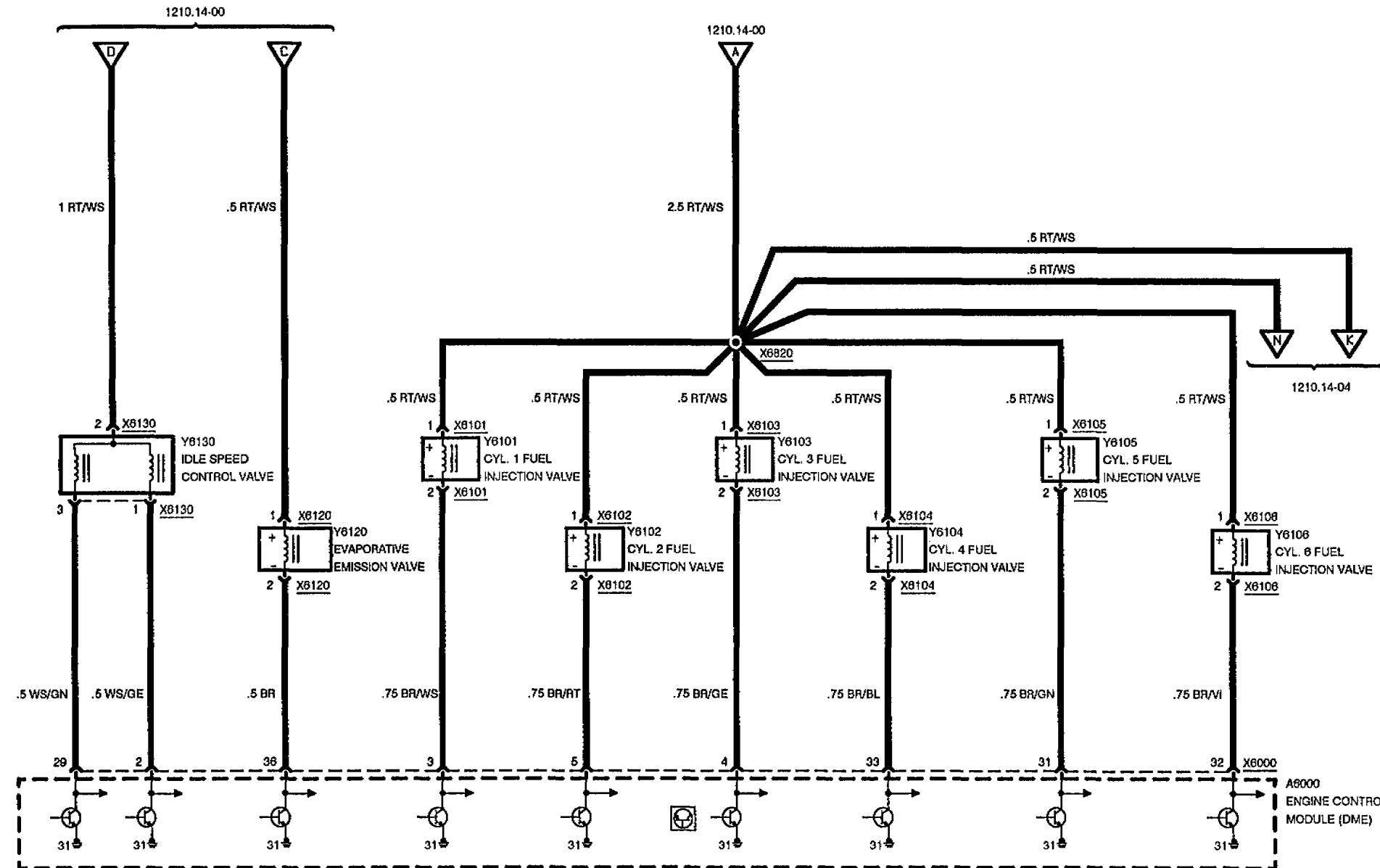
Pin	Type	Description/Function	Connection
74		Not used	
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81		Not used	
82	E	Start revolution signal	Ignition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

E = Input, A = Output, M = Ground



1210.14



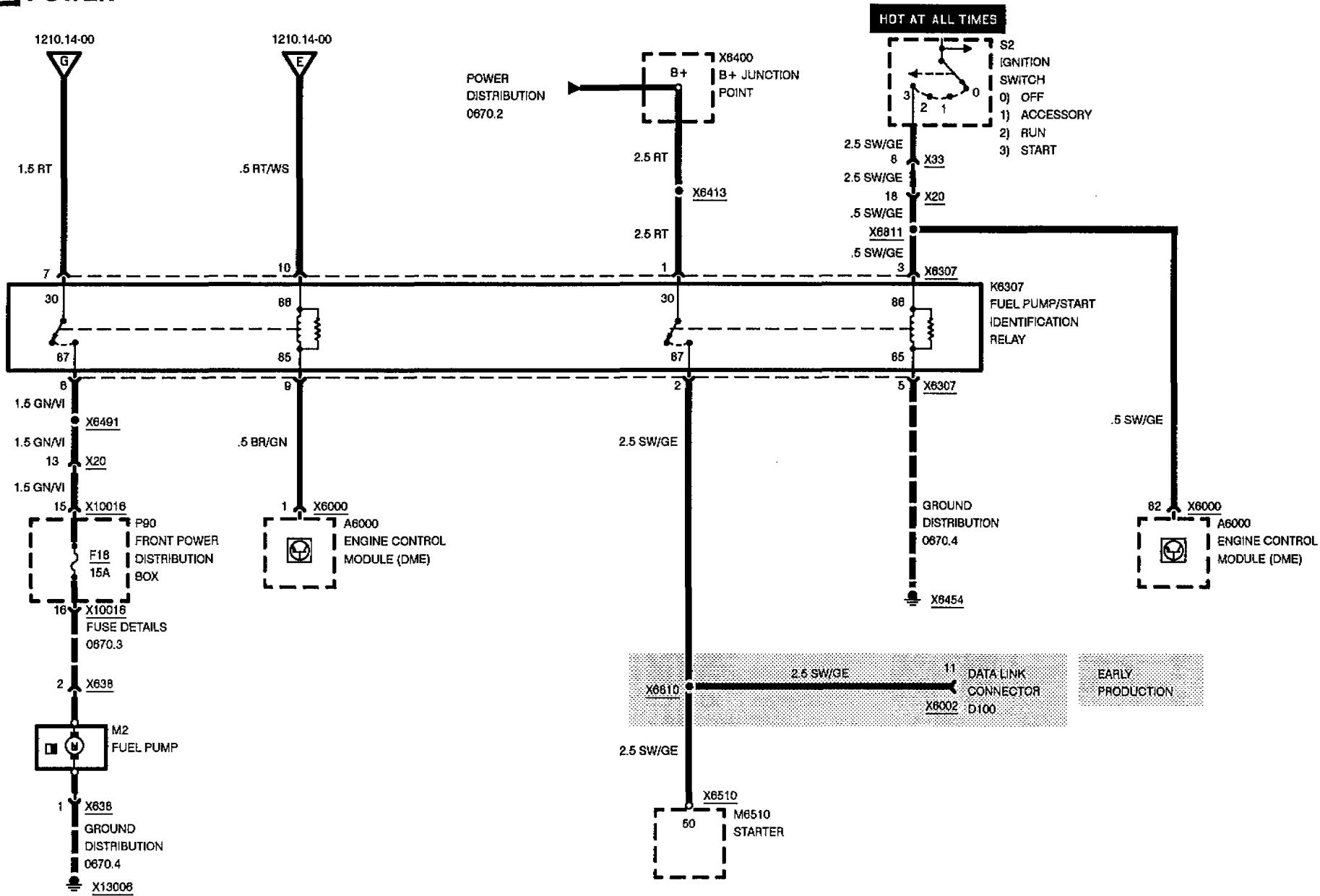




ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

CDN

POWER

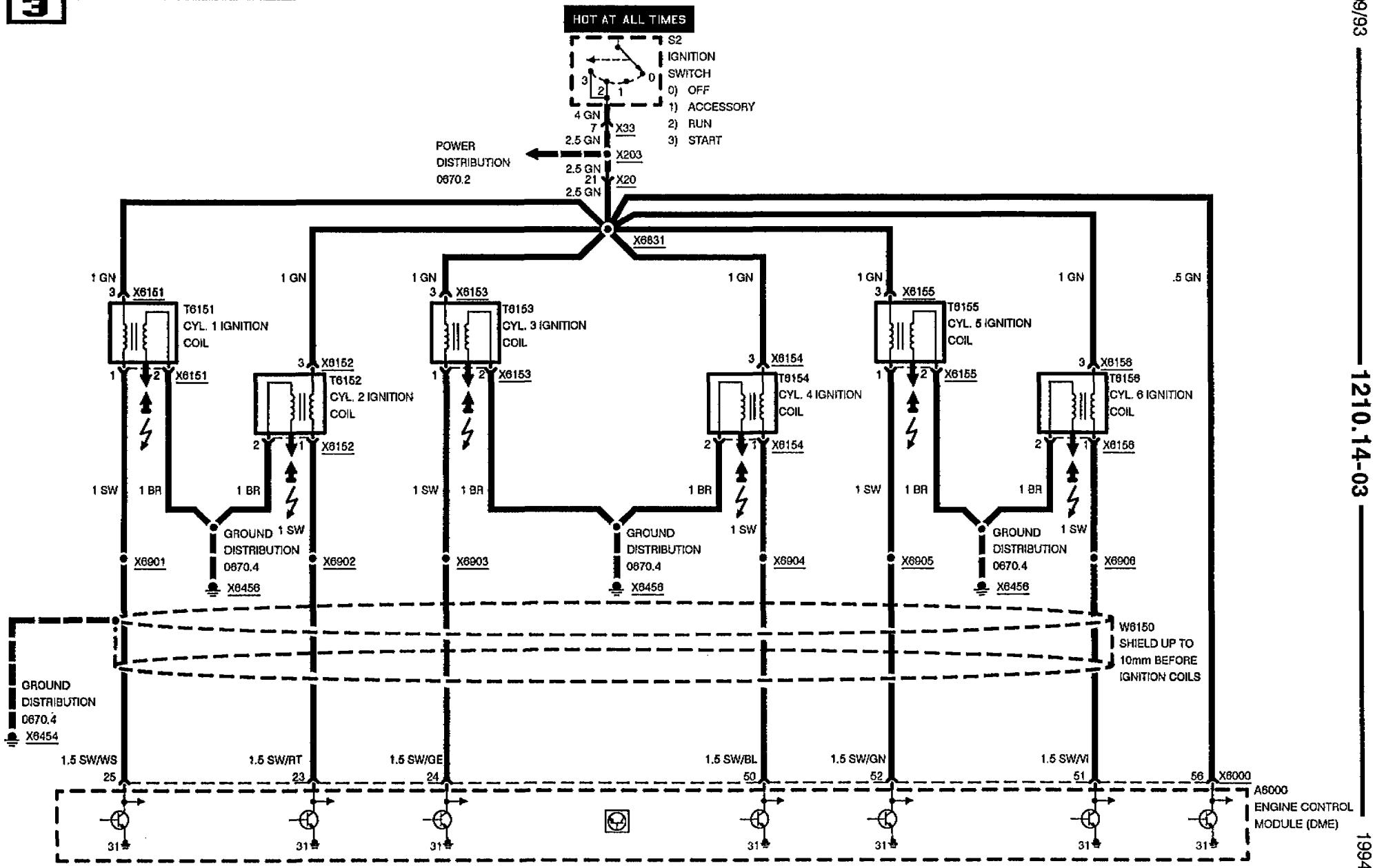


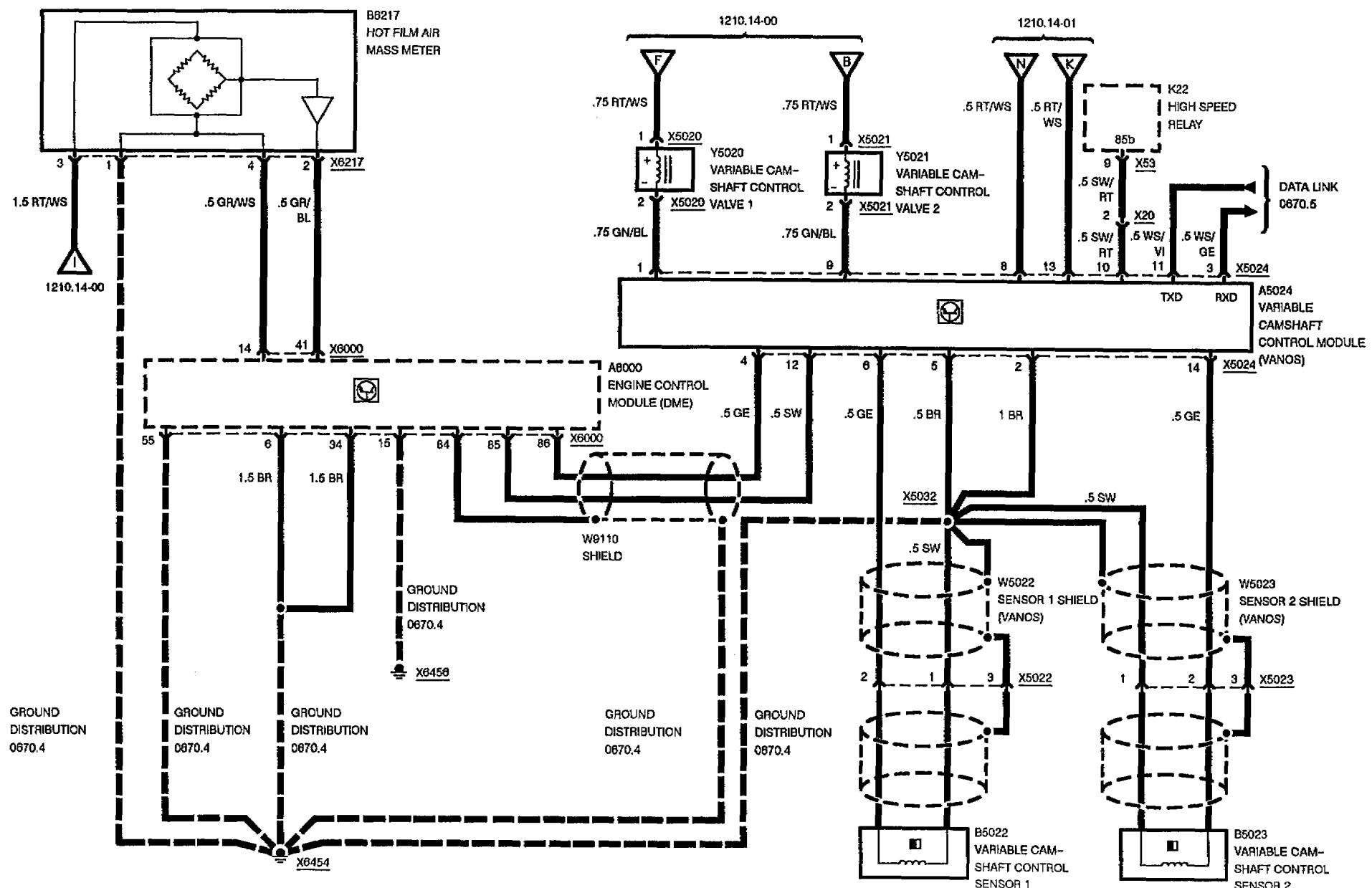


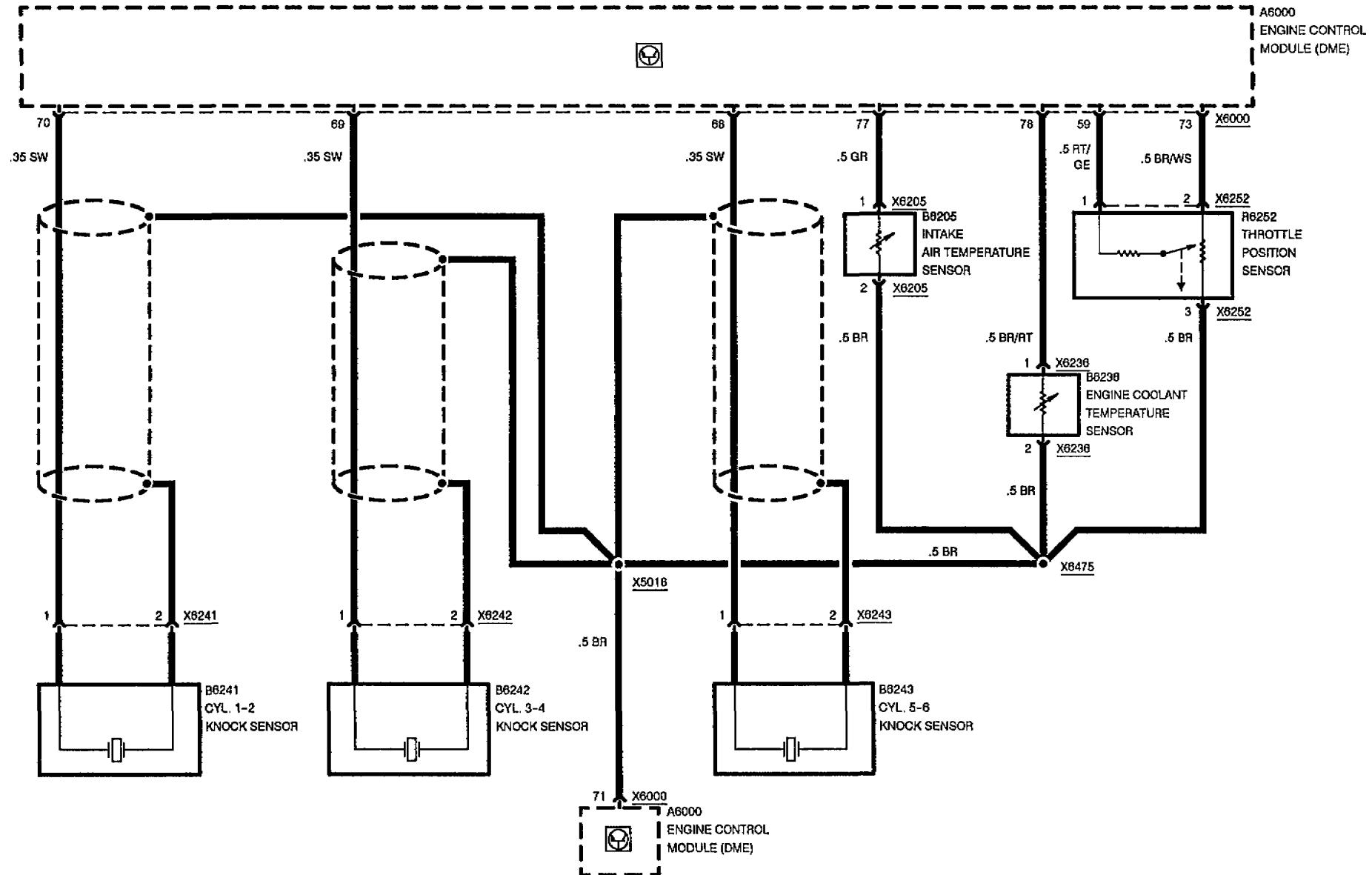
ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

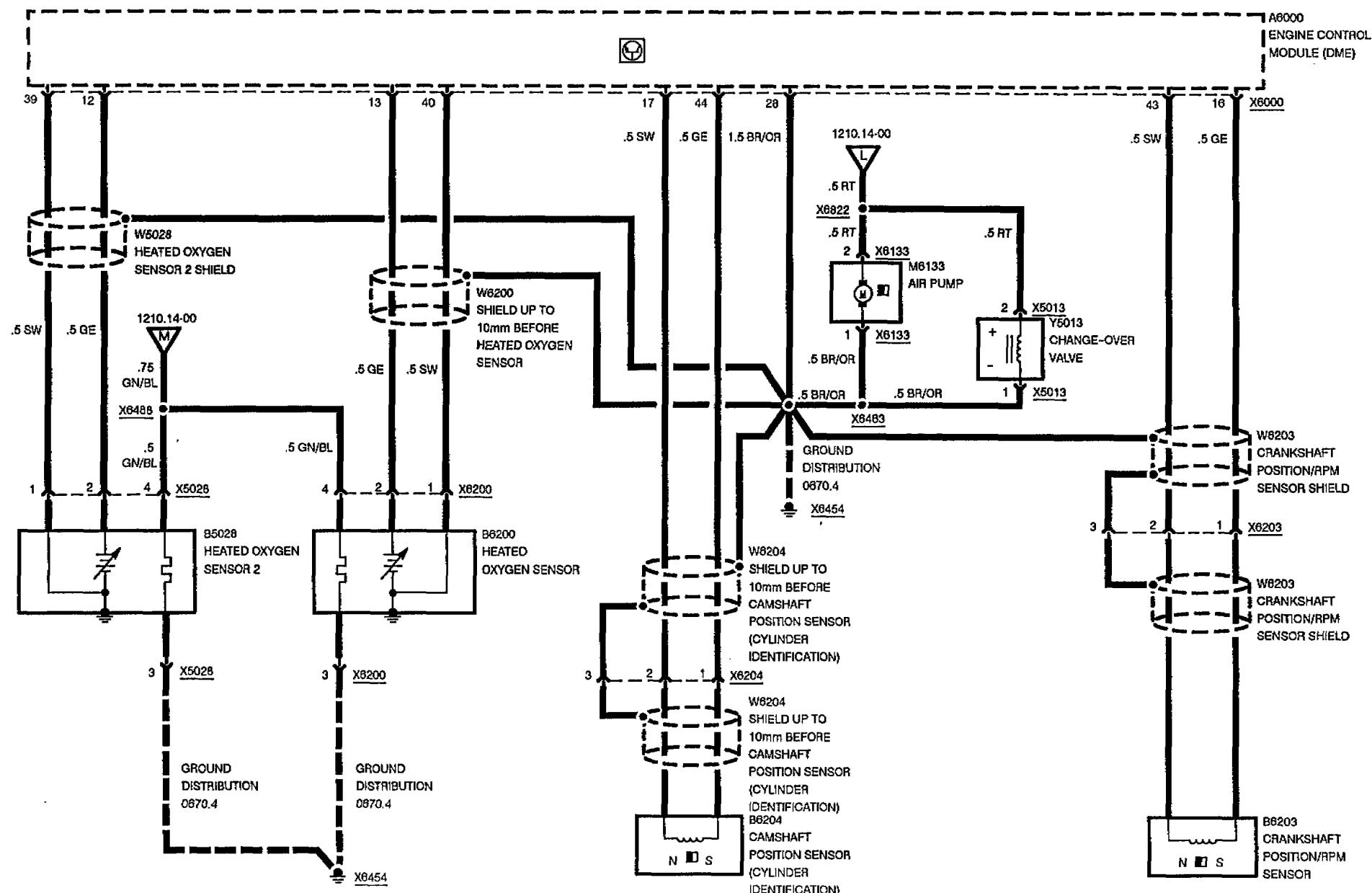
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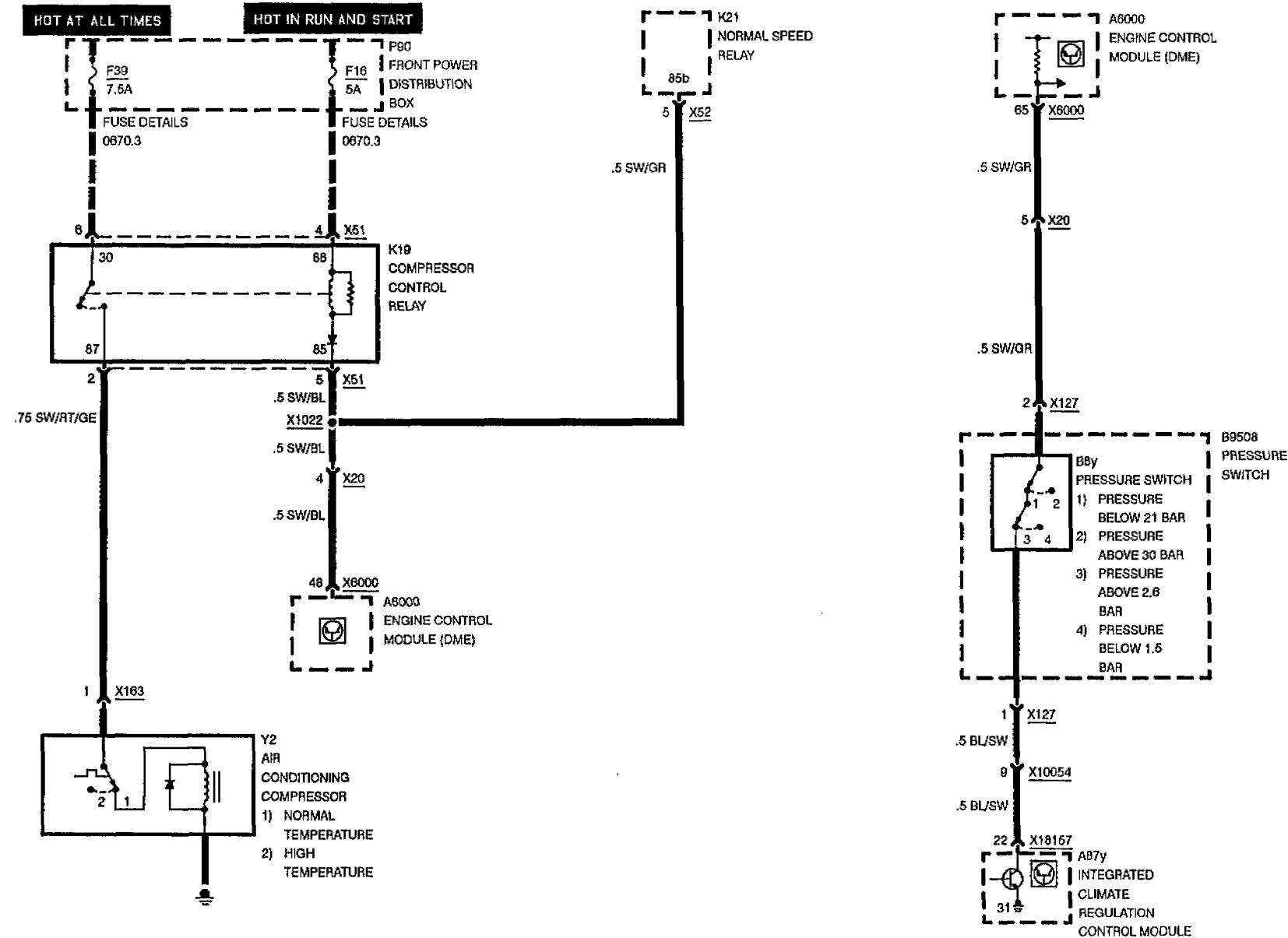
09/93











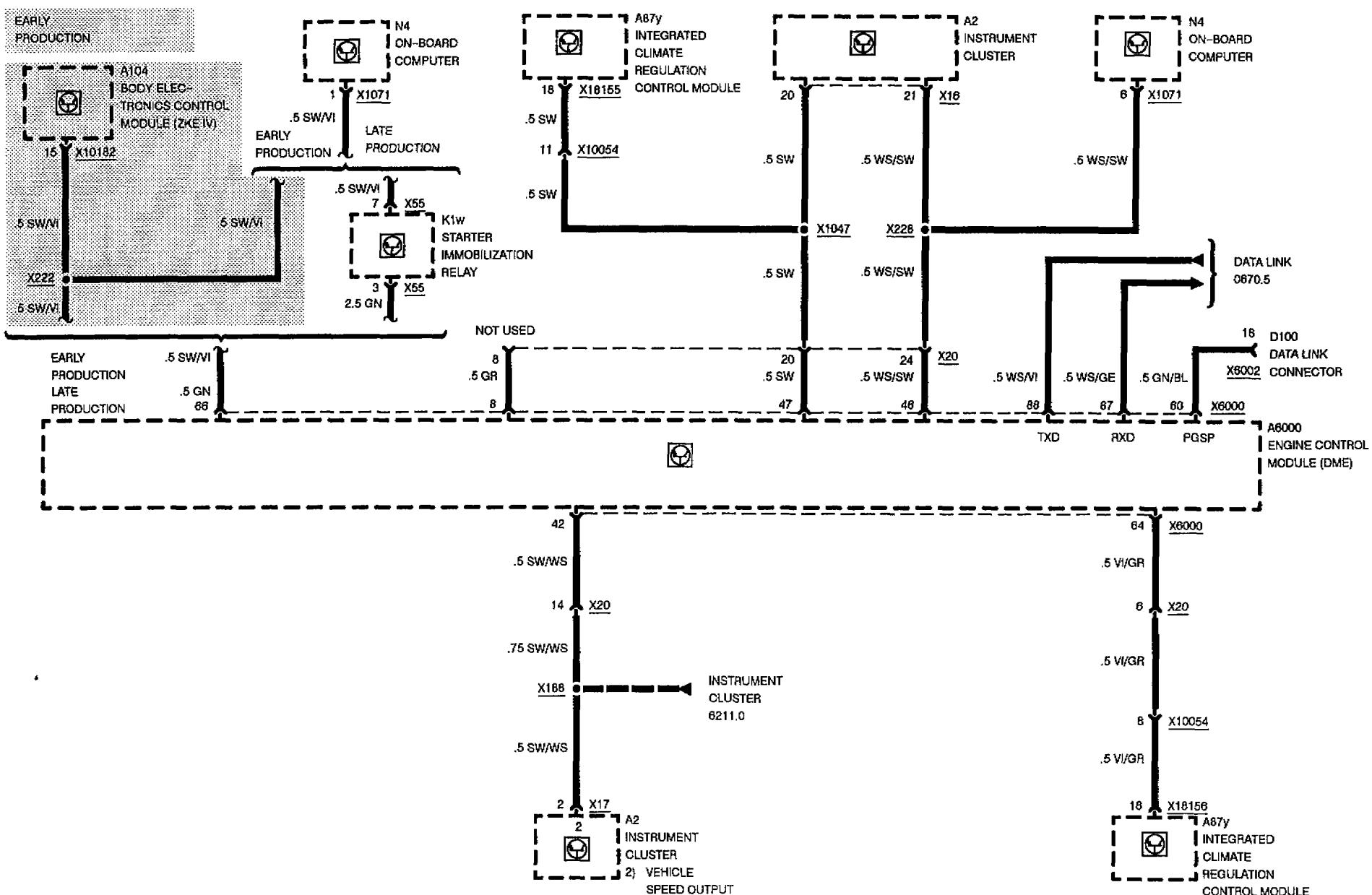
BMW 3 ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

CDN

12/94

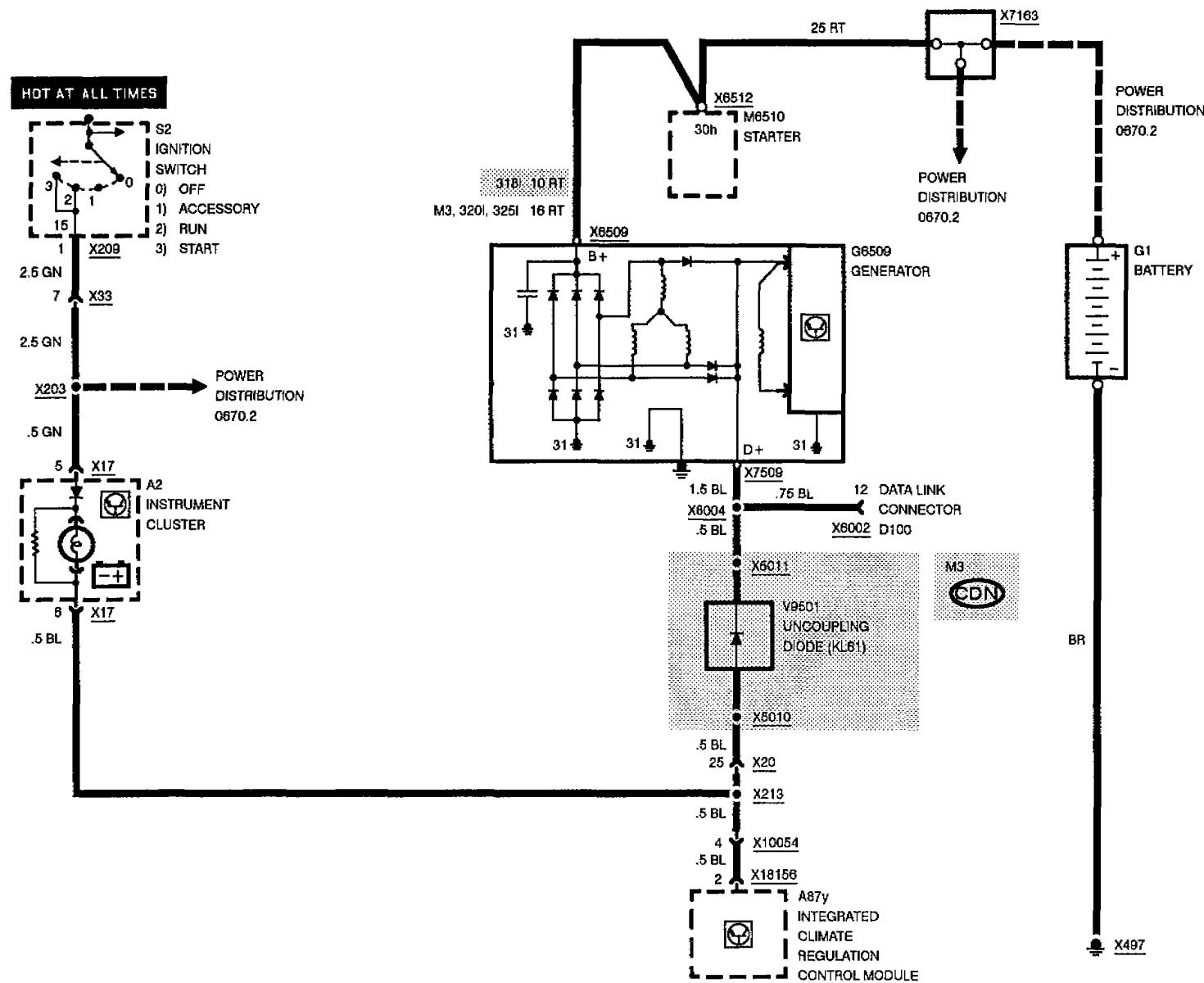
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1994



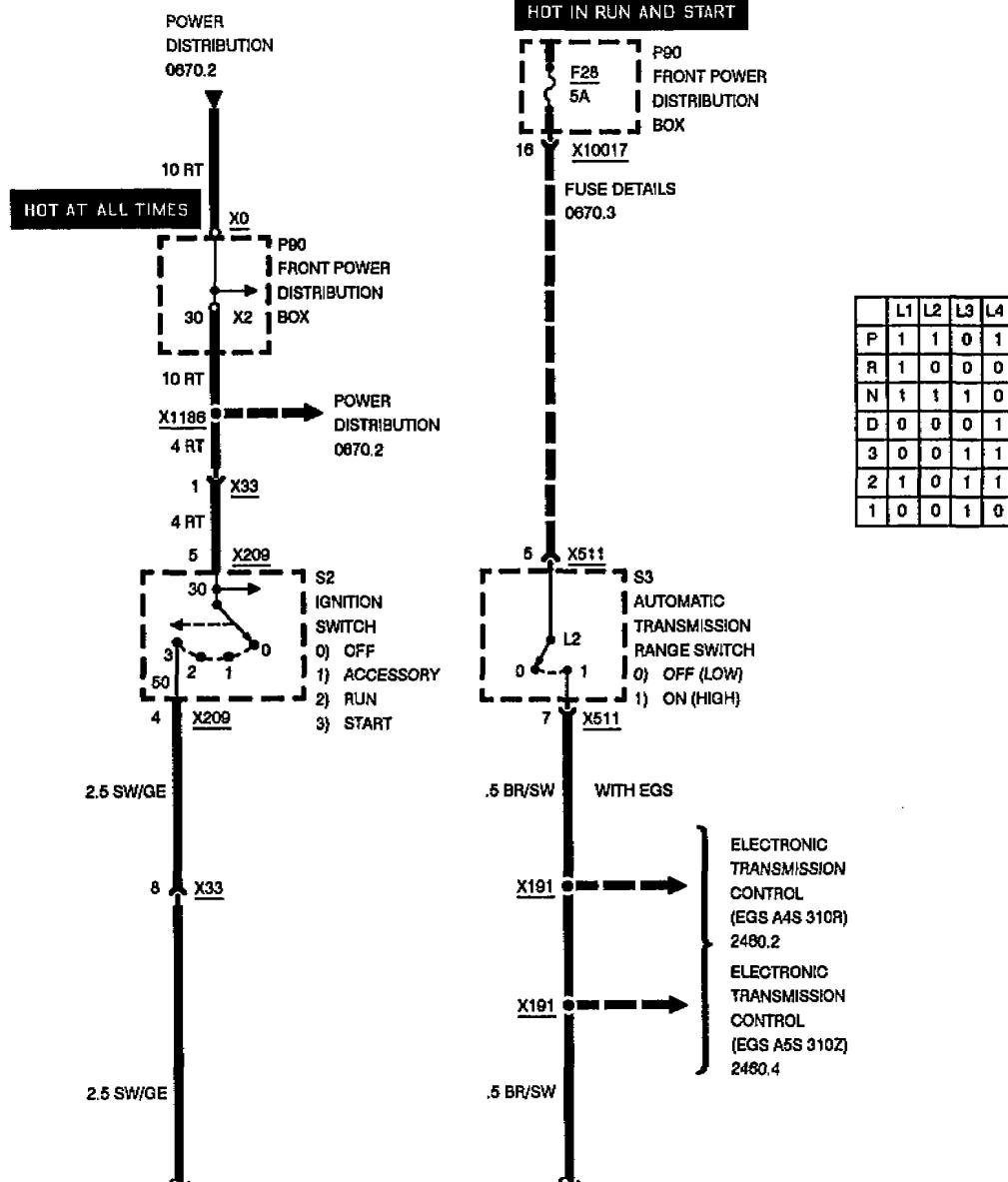
BMW
3

1230.0





1240.0

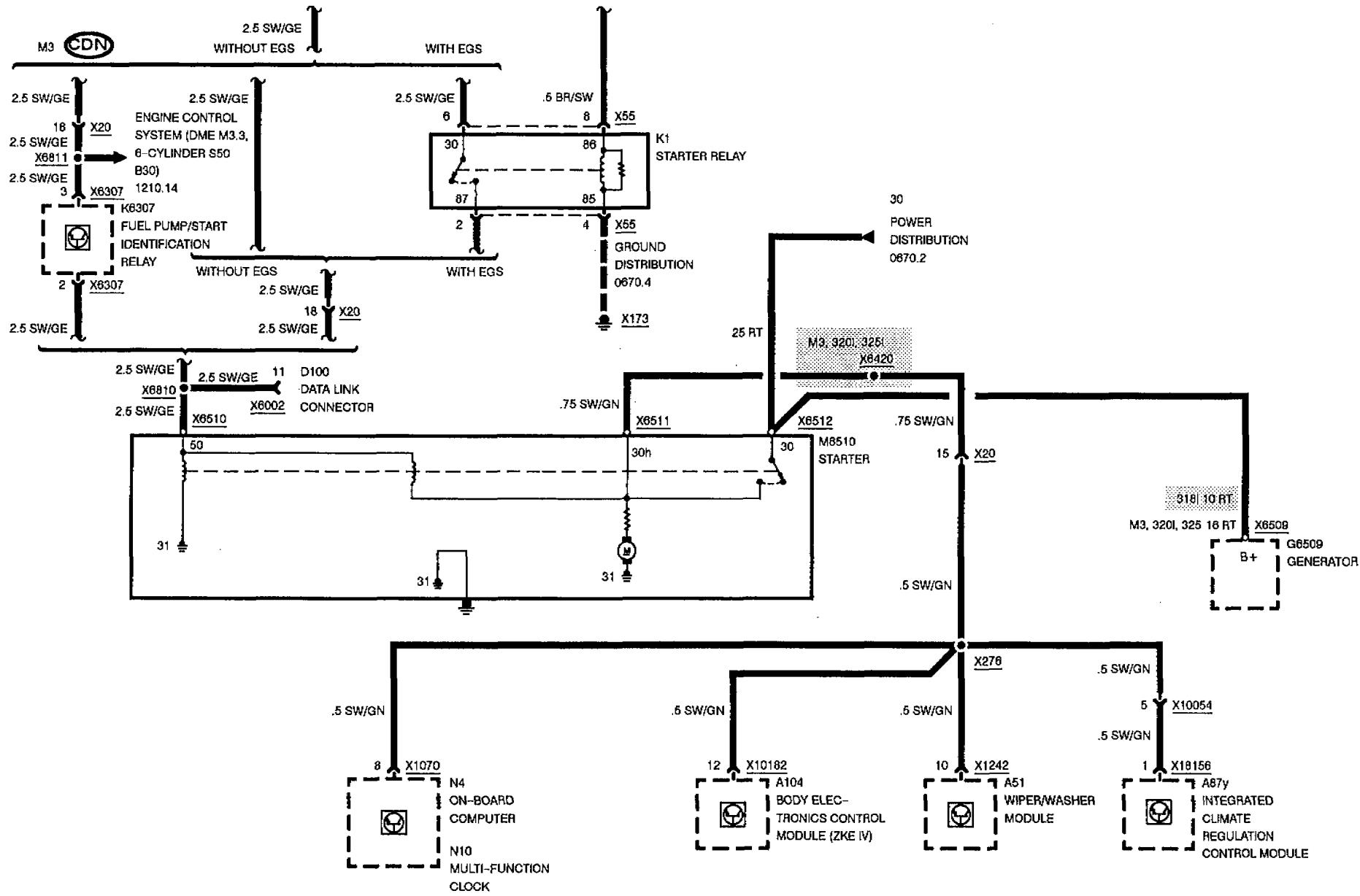


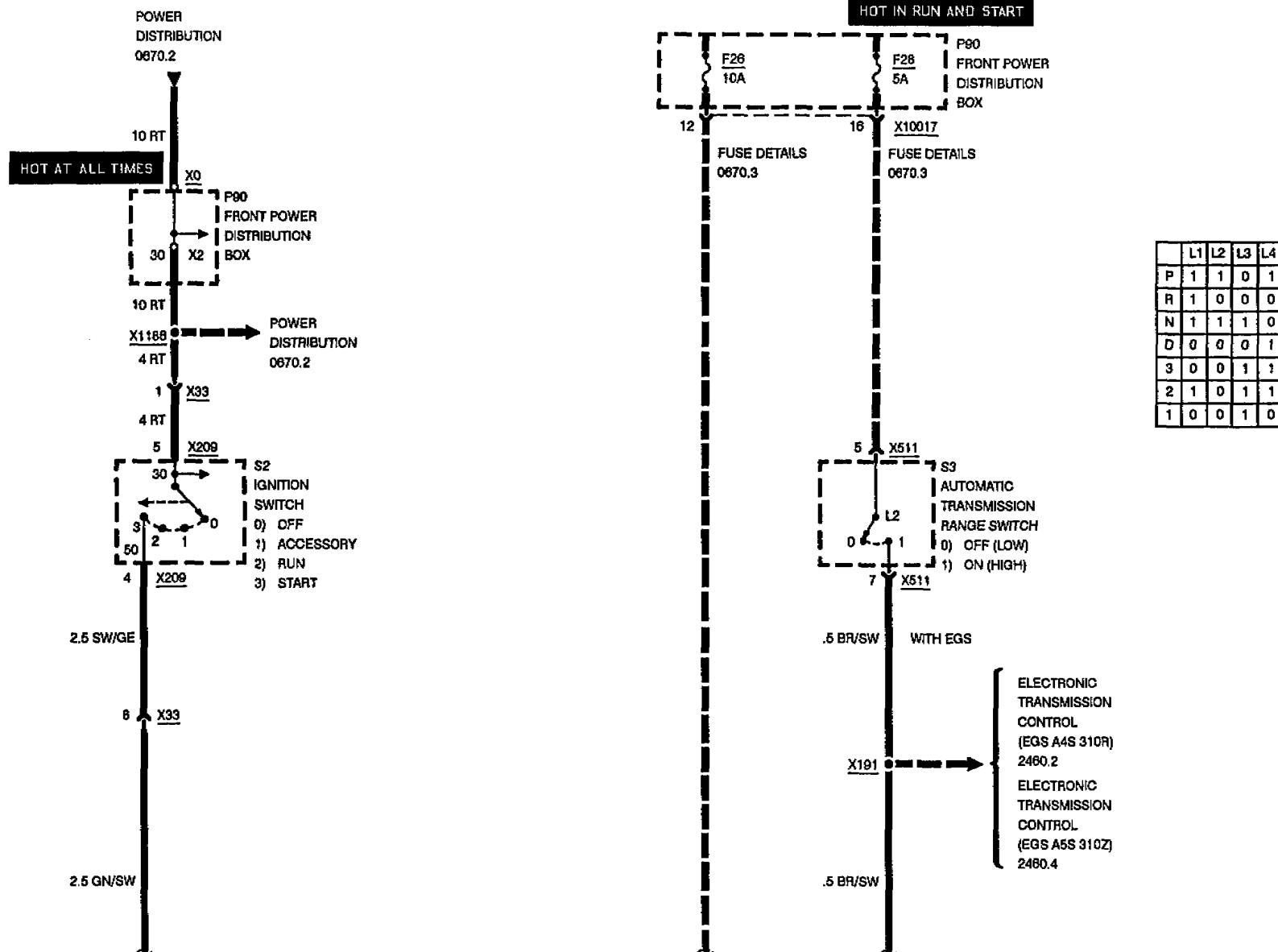
EARLY PRODUCTION

12/94

1240.0-01

1994



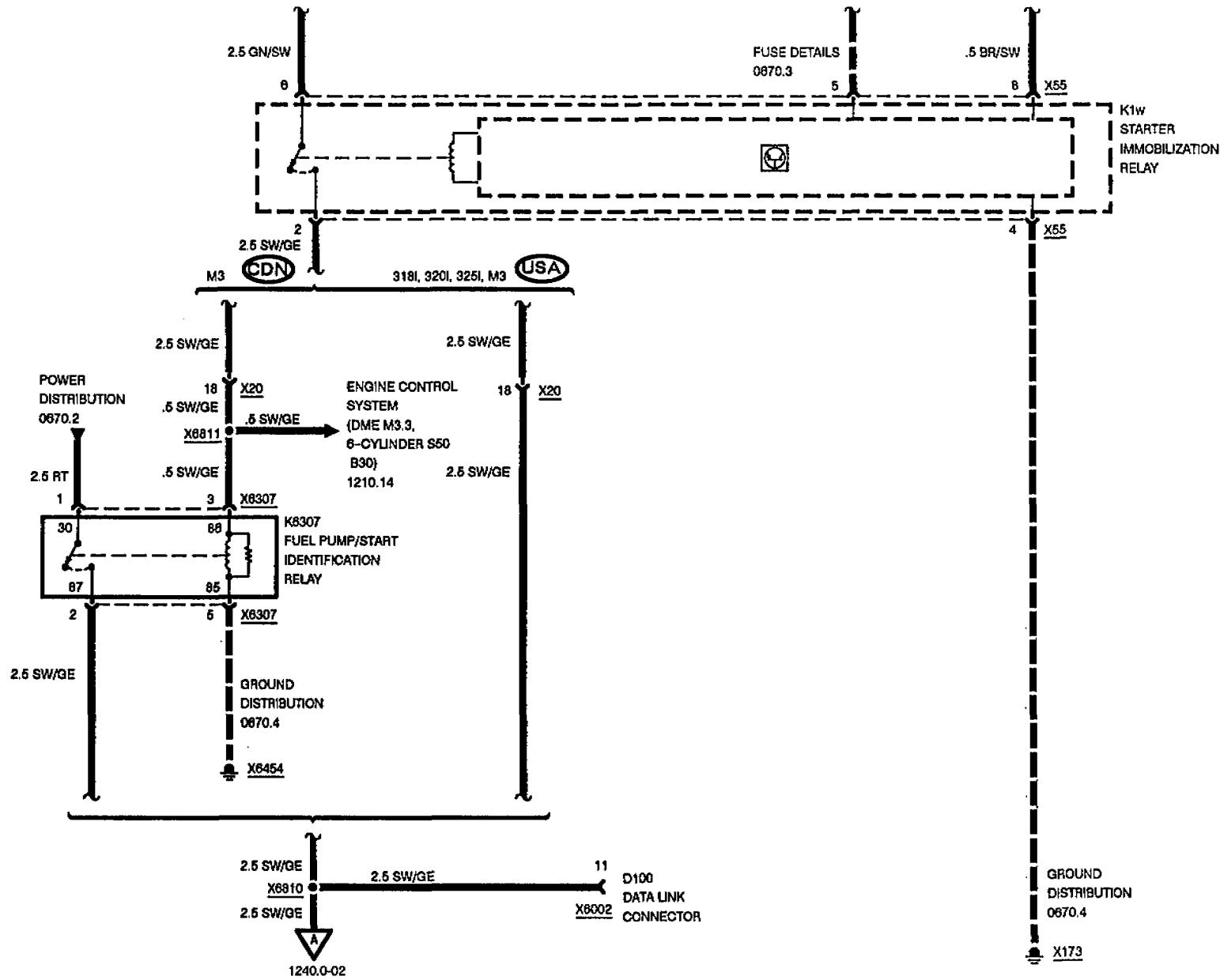


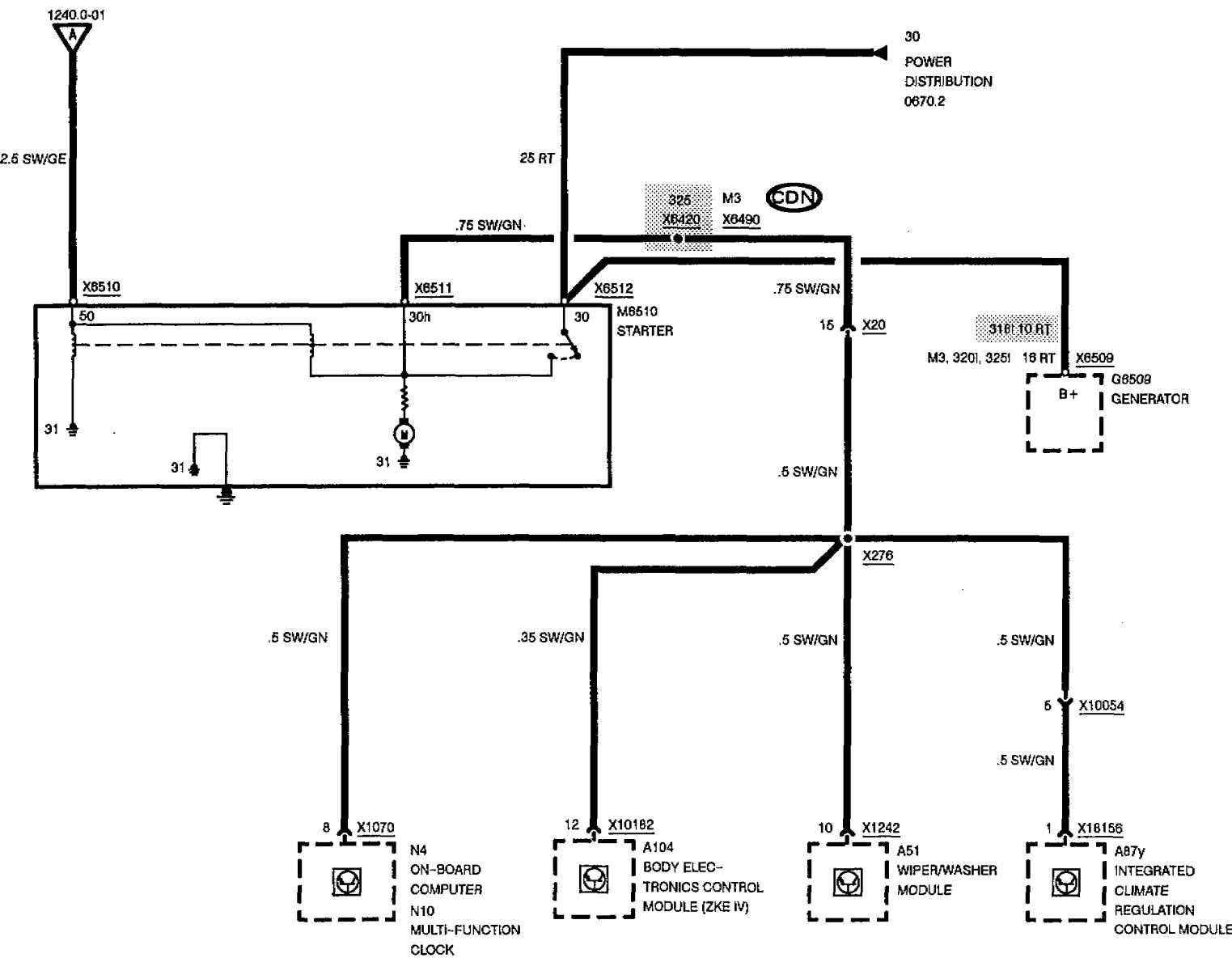
LATE PRODUCTION

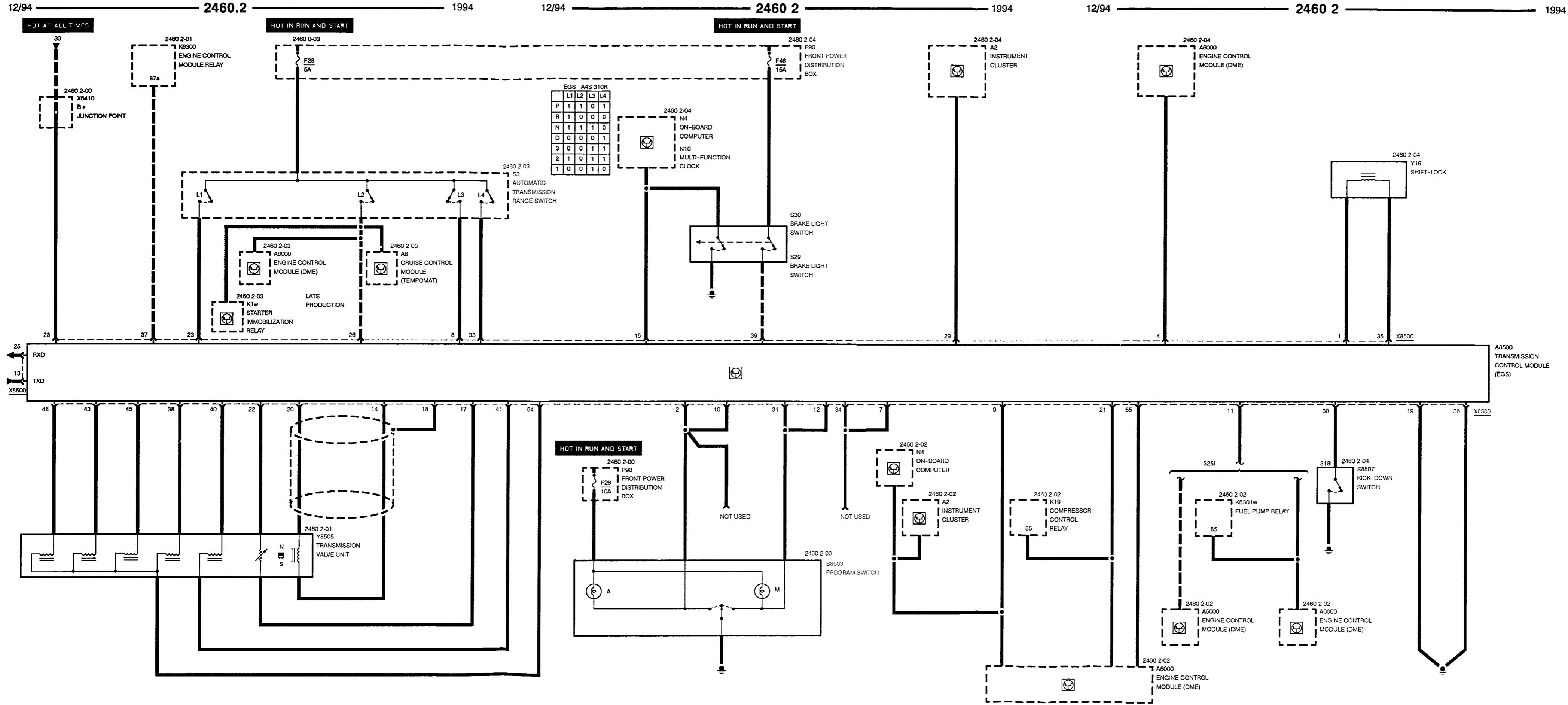
12/94

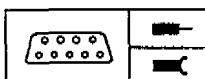
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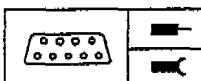


Pin Assignments

X8500

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

E = Input, A = Output, M = Ground

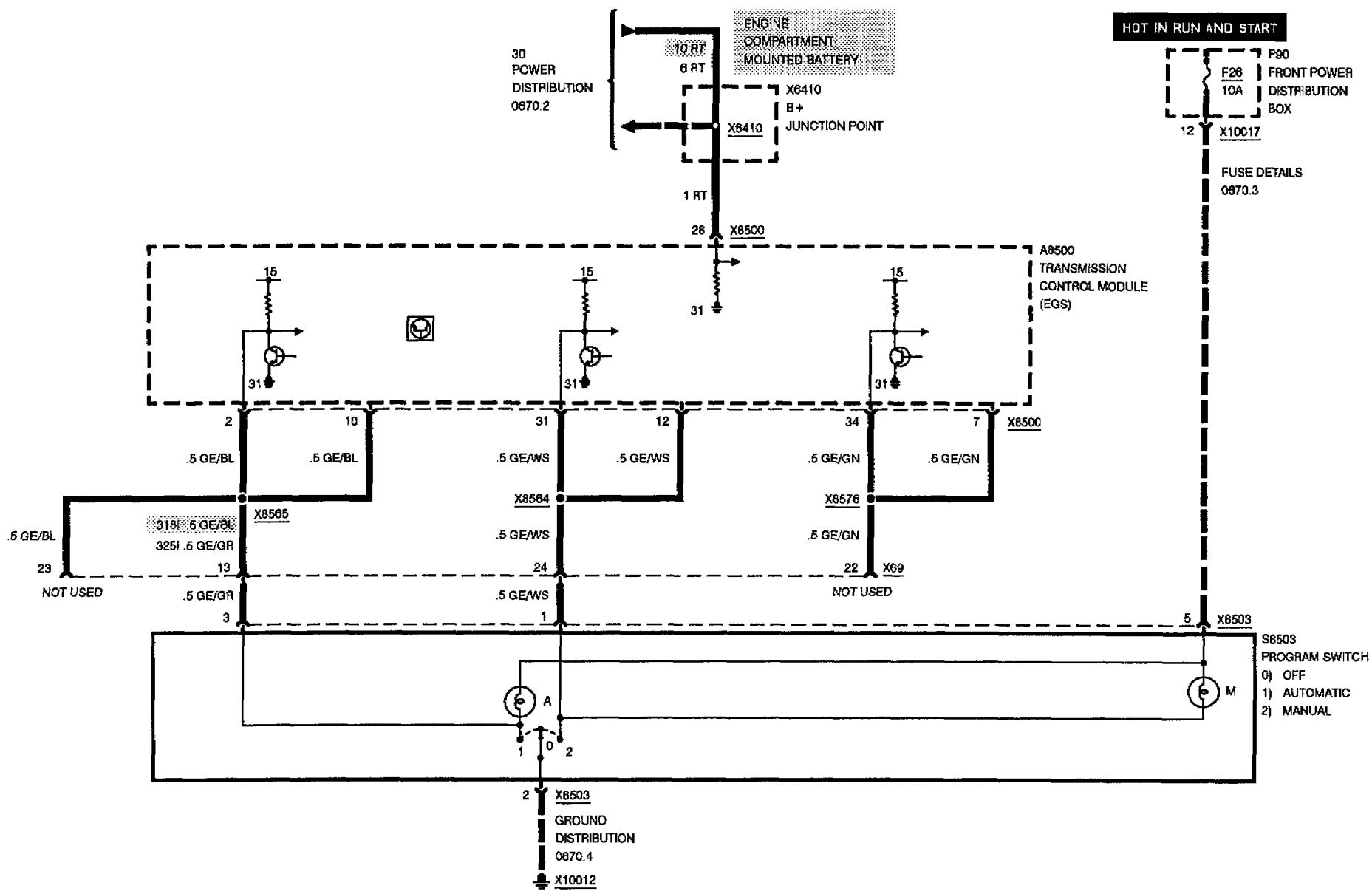


Pin Assignments

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



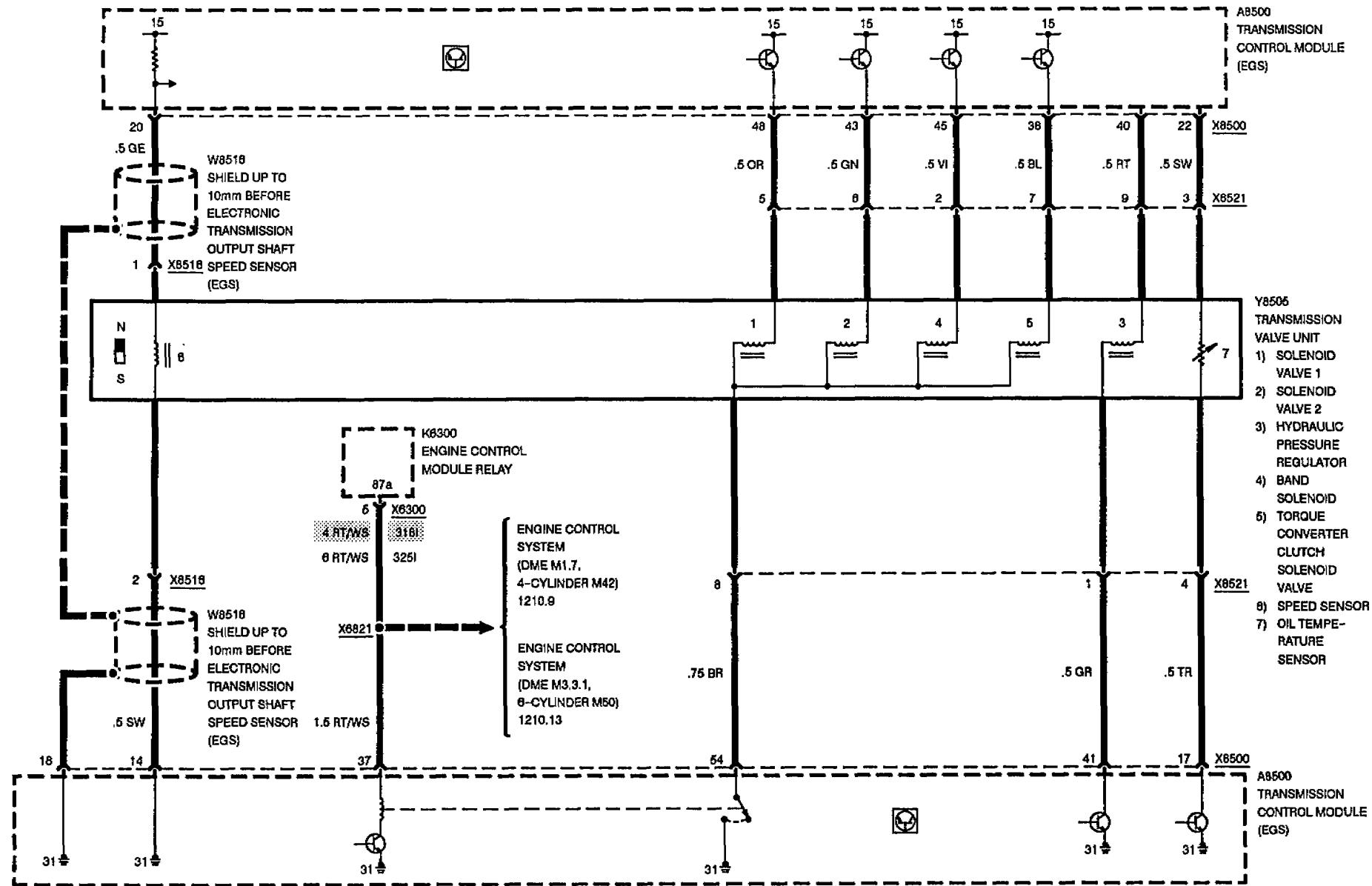
2460.2





ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

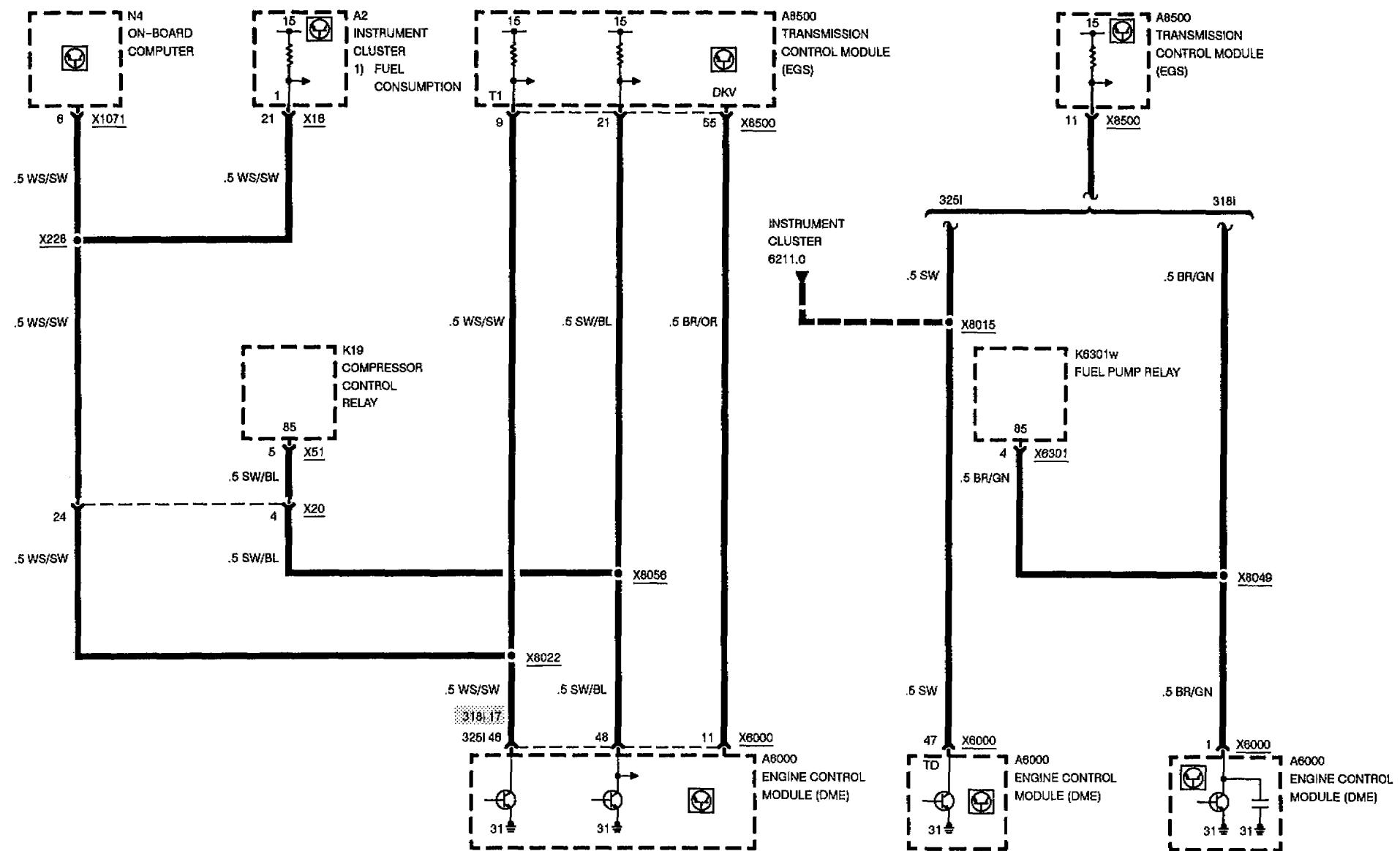
GEAR VALVE UNIT



09/93

2460.2-01

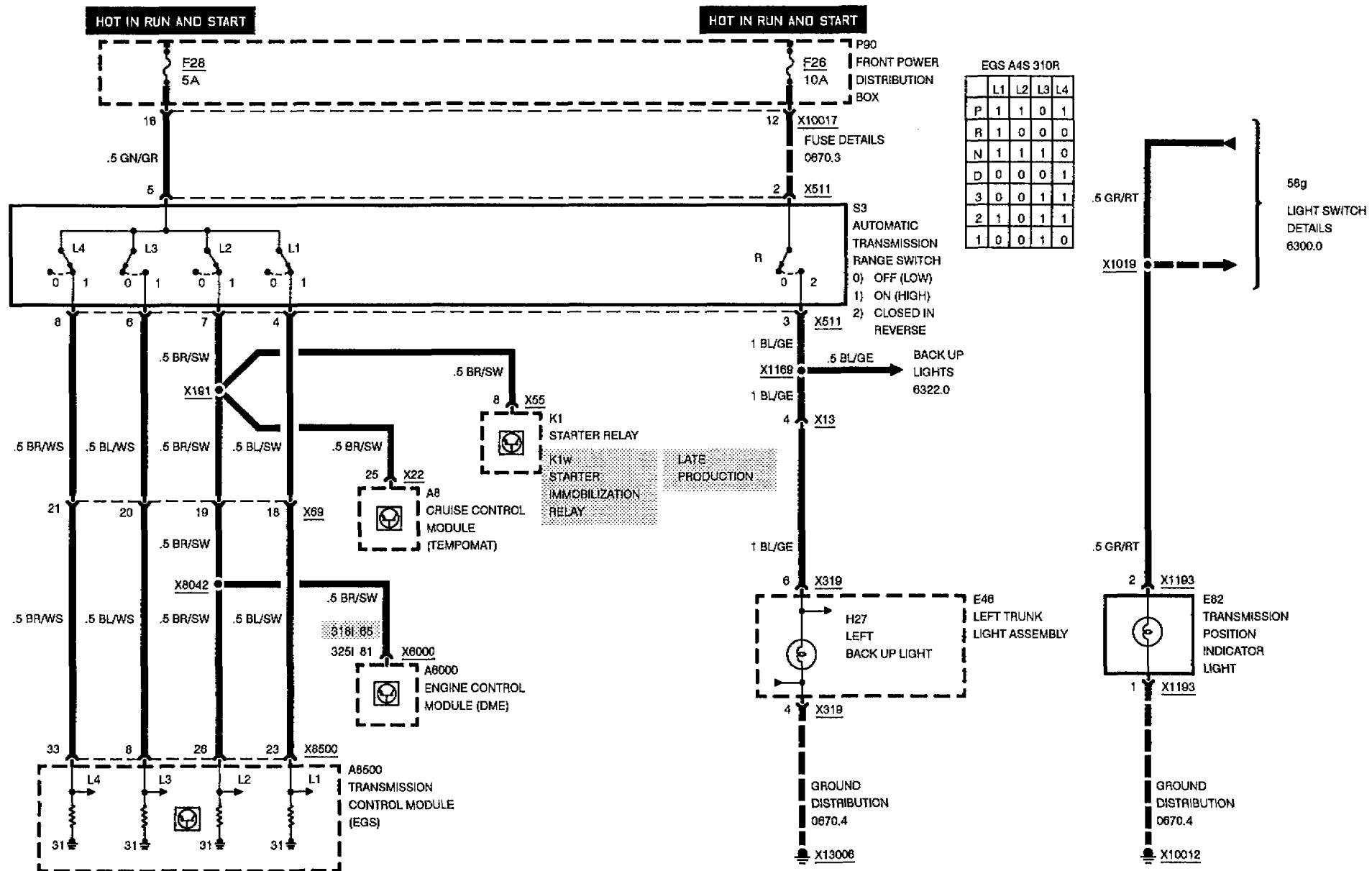
1994

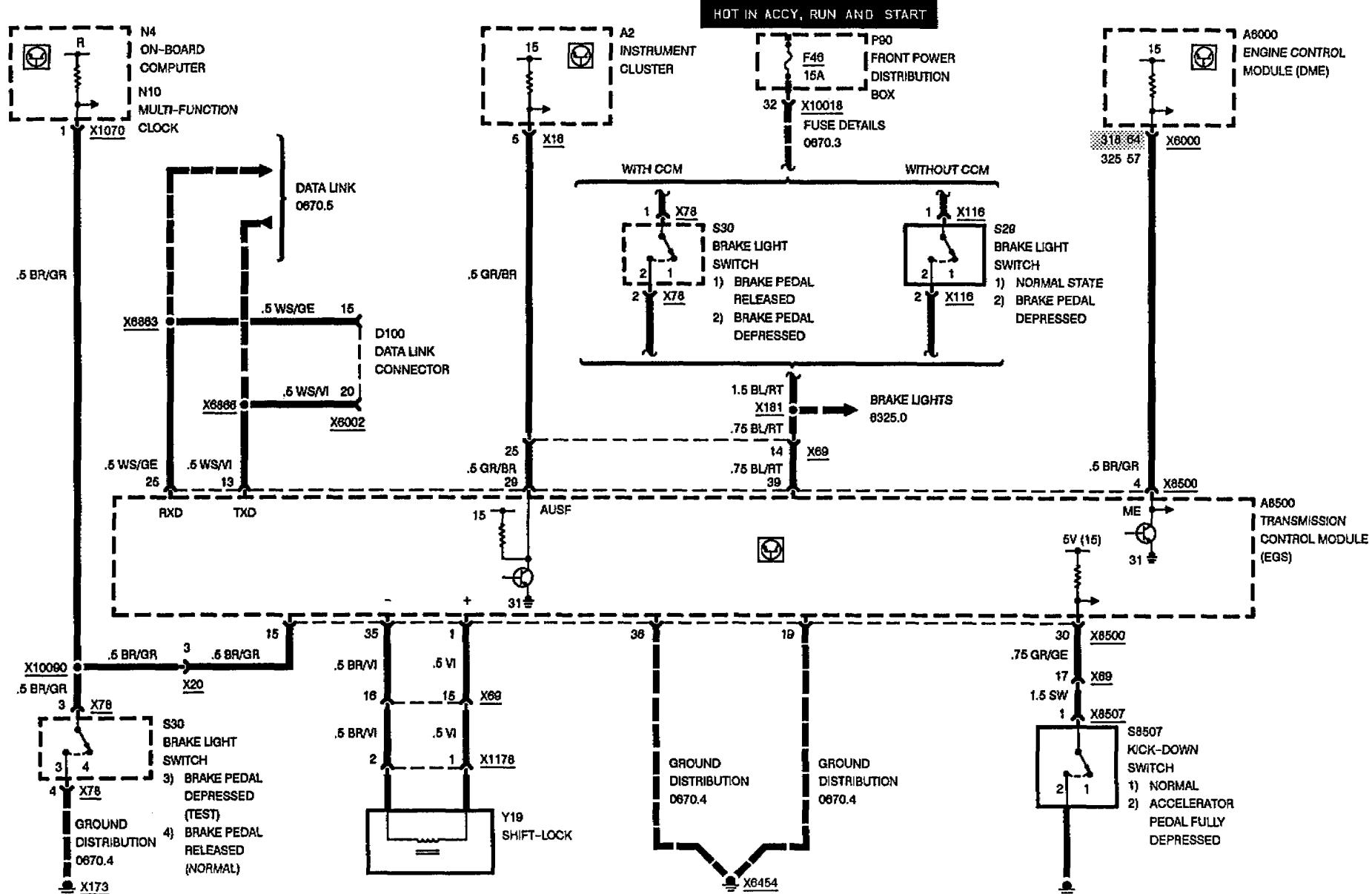




ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

GEAR SELECTOR SWITCH





12/94 ————— 2460 4 —————

1994

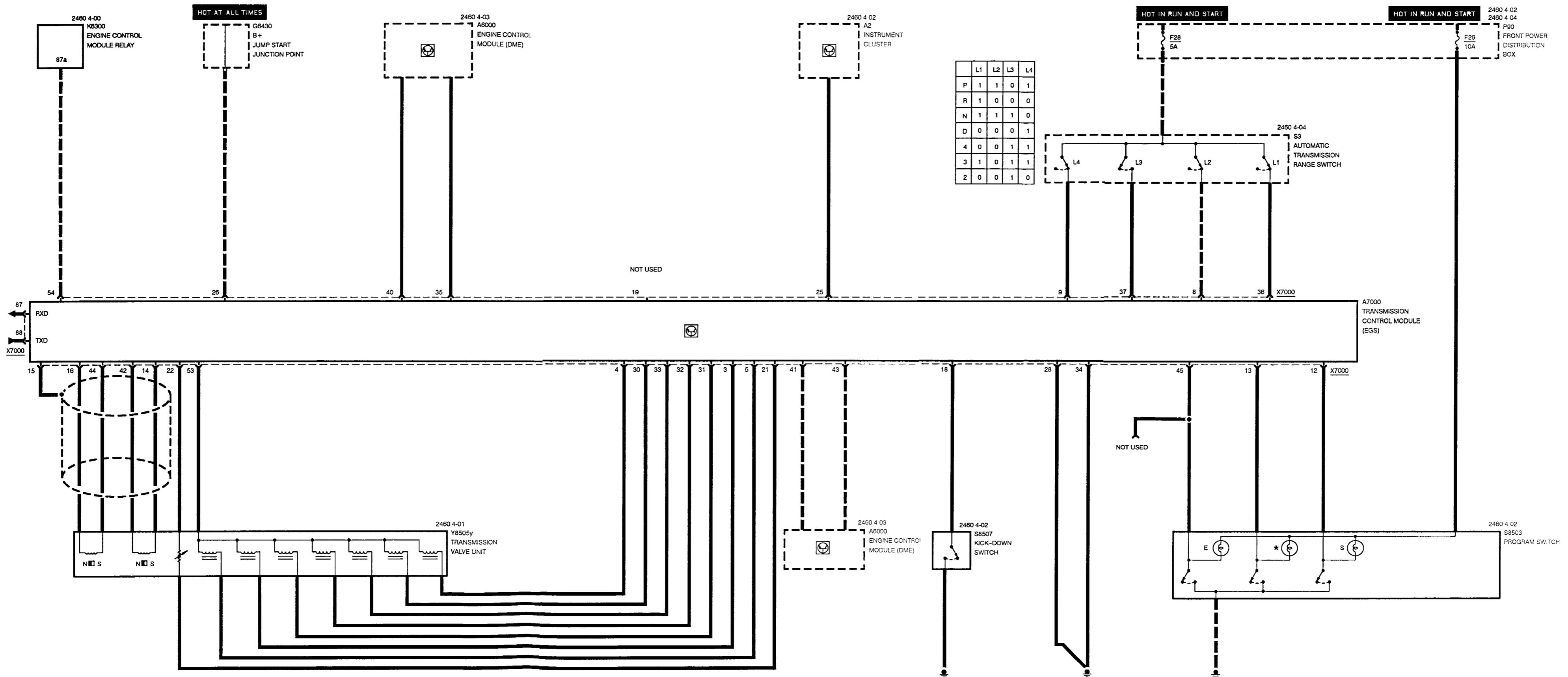
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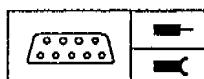
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1994

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1994



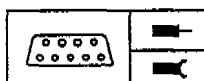


Pin Assignments

X7000

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

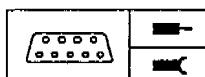
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Solenoid valve 4	Transmission valve unit
32	A	Solenoid valve 3	Transmission valve unit
33	A	Solenoid valve 2	Transmission valve unit
34	M	Ground	Ground
35	E	DKT-interface	Engine control module (DME)
36	E	Gear range signal L1	Automatic transmission range switch
37	E	Gear range signal L3	Automatic transmission range switch
38		Not used	
39		Not used	
40	A	Ignition timing intervention	Engine control module (DME)
41	E	Ti-measurement signal (fuel consumption)	Engine control module (DME)
42	A	Speed sensor n - ab (+)	Transmission valve unit
43	E	Crankshaft RPM speed signal TD	Engine control module (DME)
44	E	Speed sensor n-turbine	Transmission valve unit
45	E	E-program indication	Program switch
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53	A	Voltage supply for solenoid valves	Transmission valve unit
54	E	Voltage supply	DME-relay
55		Not used	
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	
61		Not used	
62		Not used	

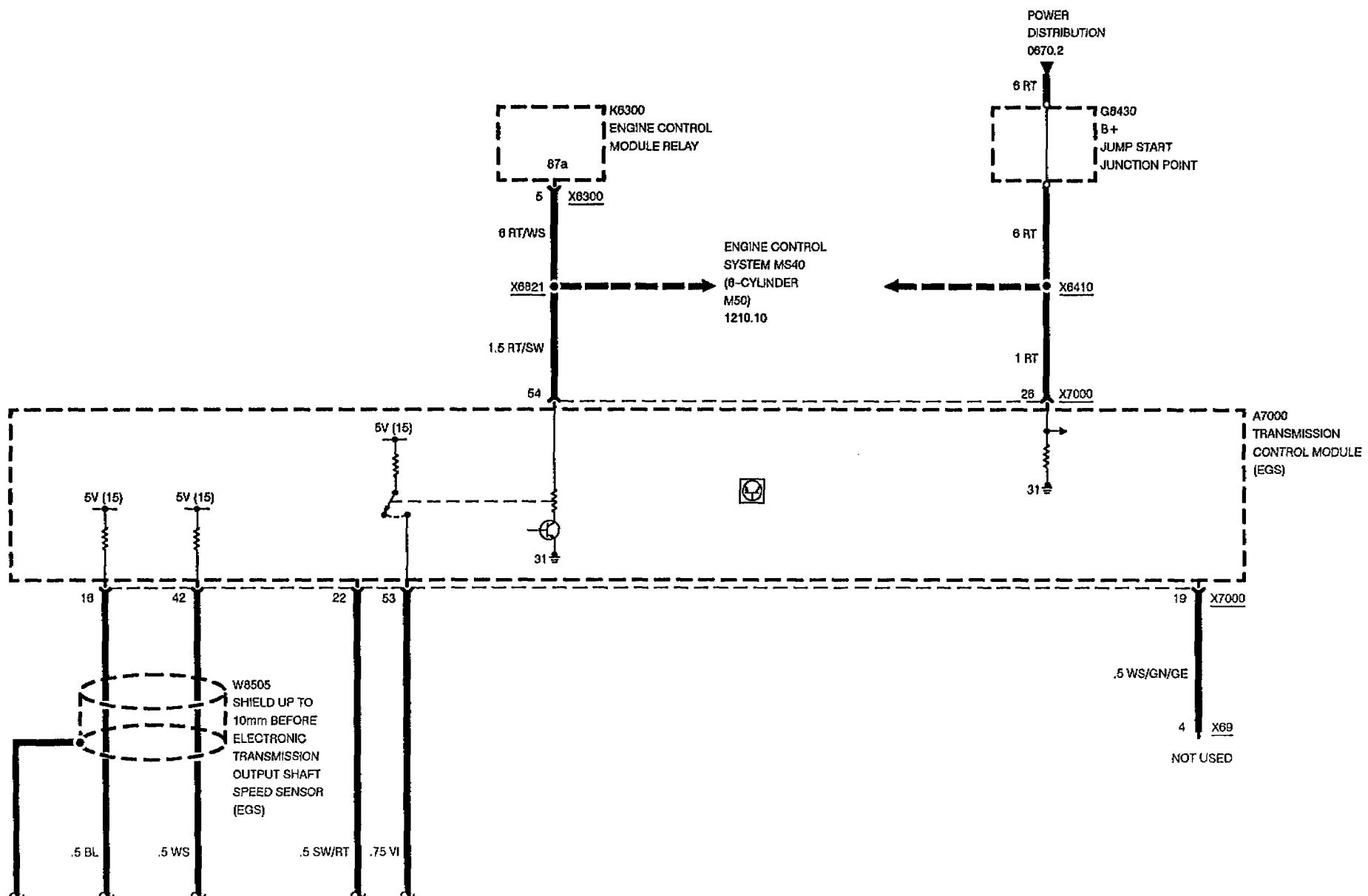
E = Input, A = Output, M = Ground

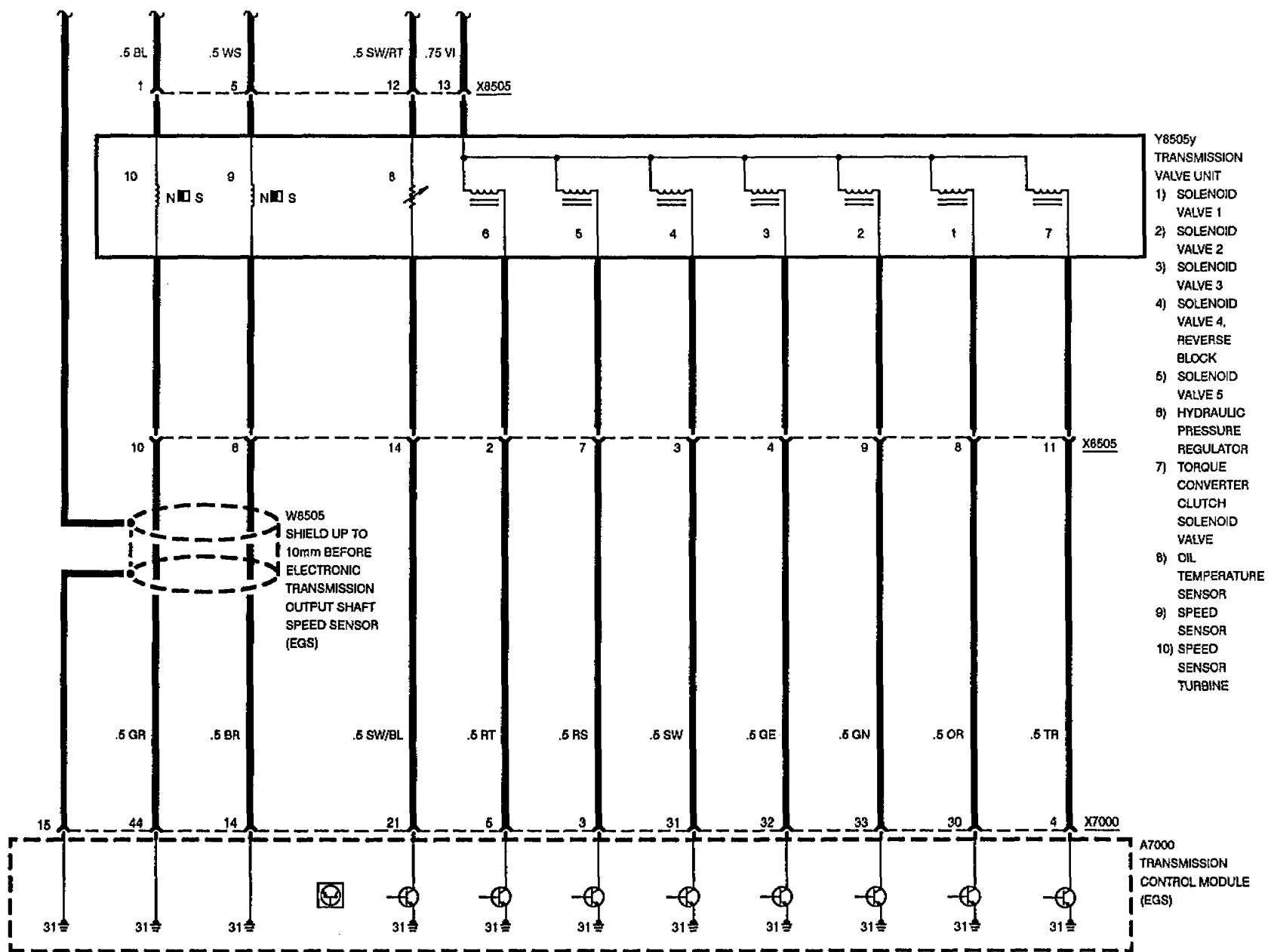


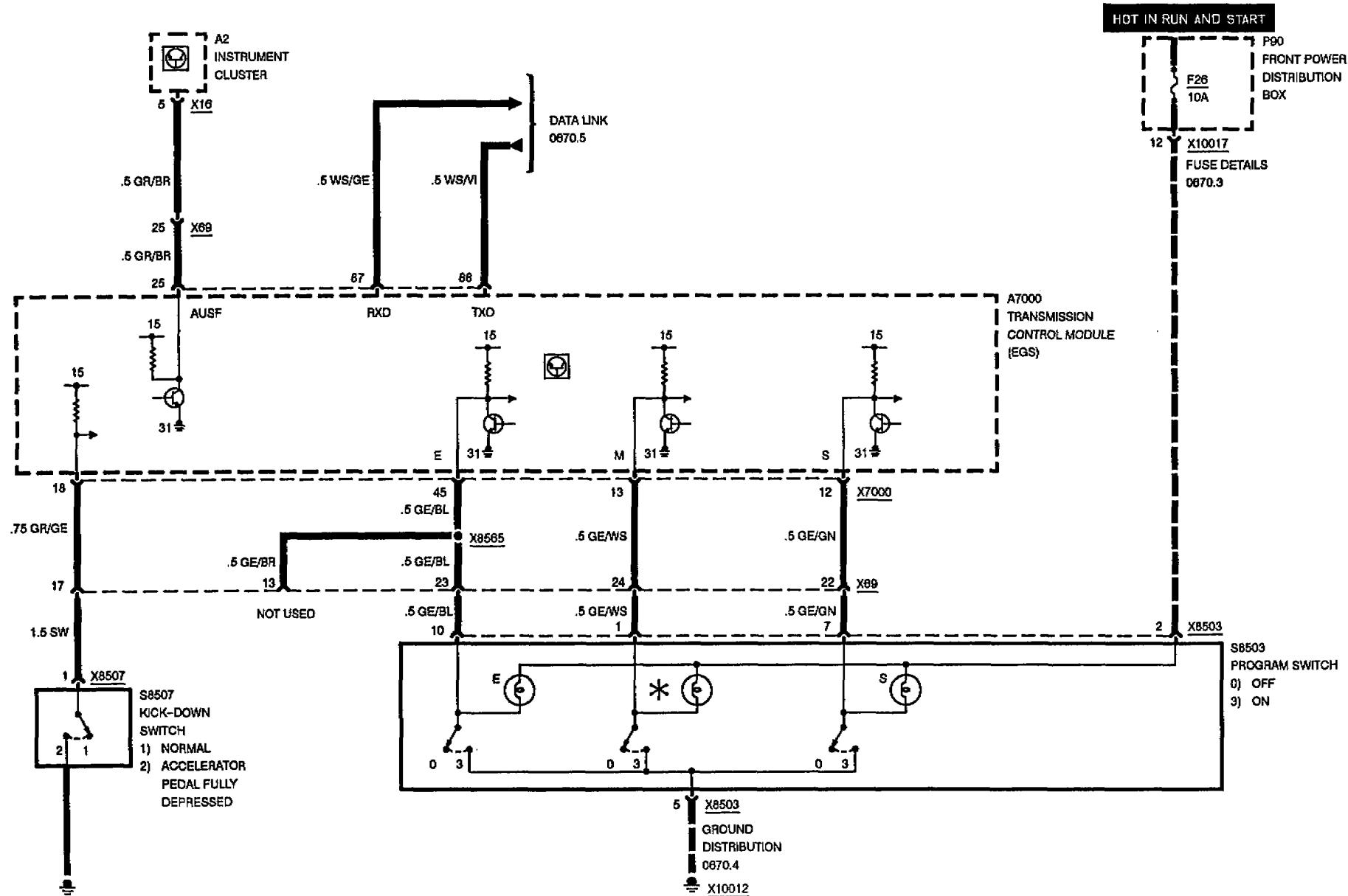
Pin Assignments

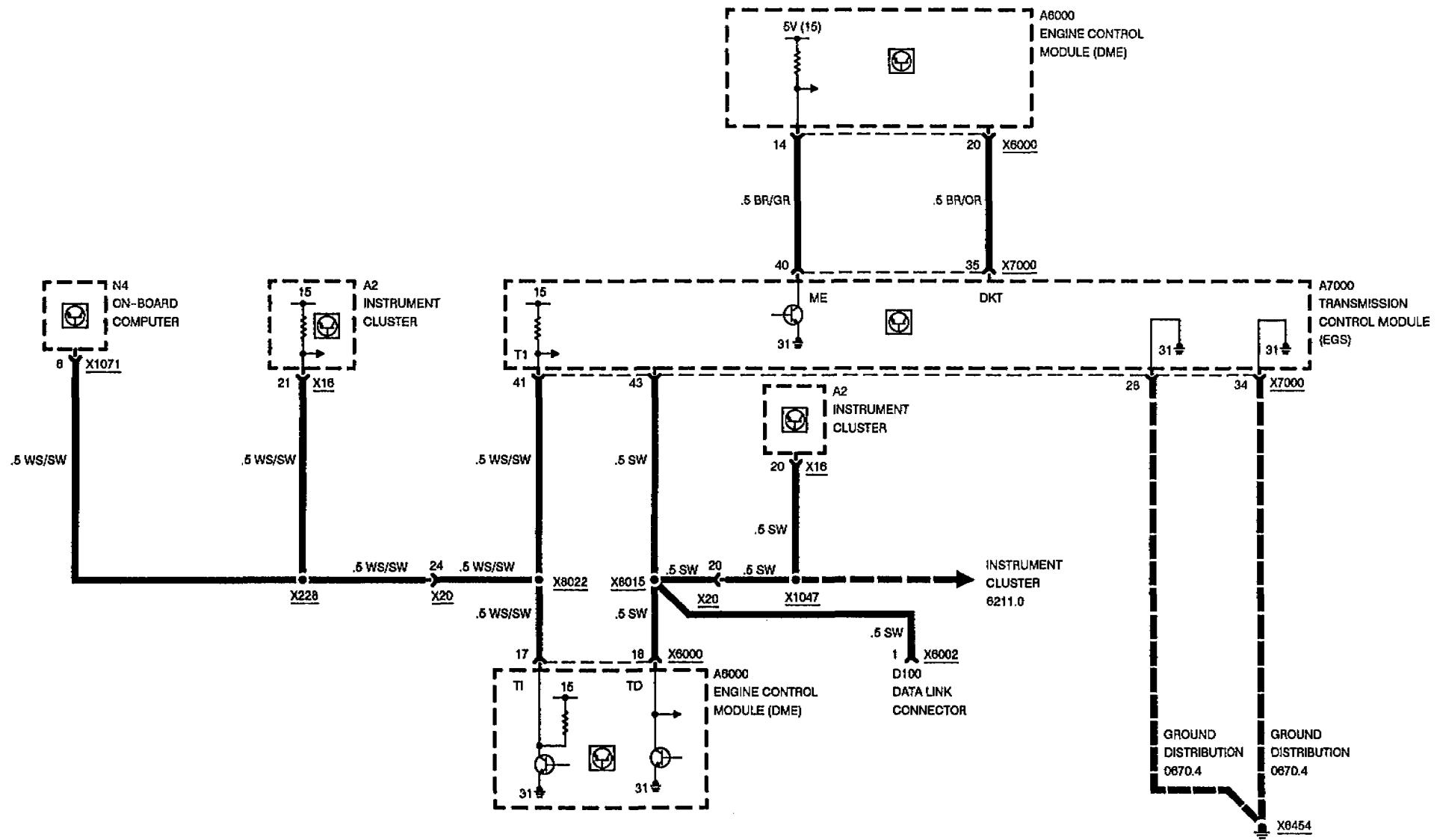
Pin	Type	Description/Function	Connection
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not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

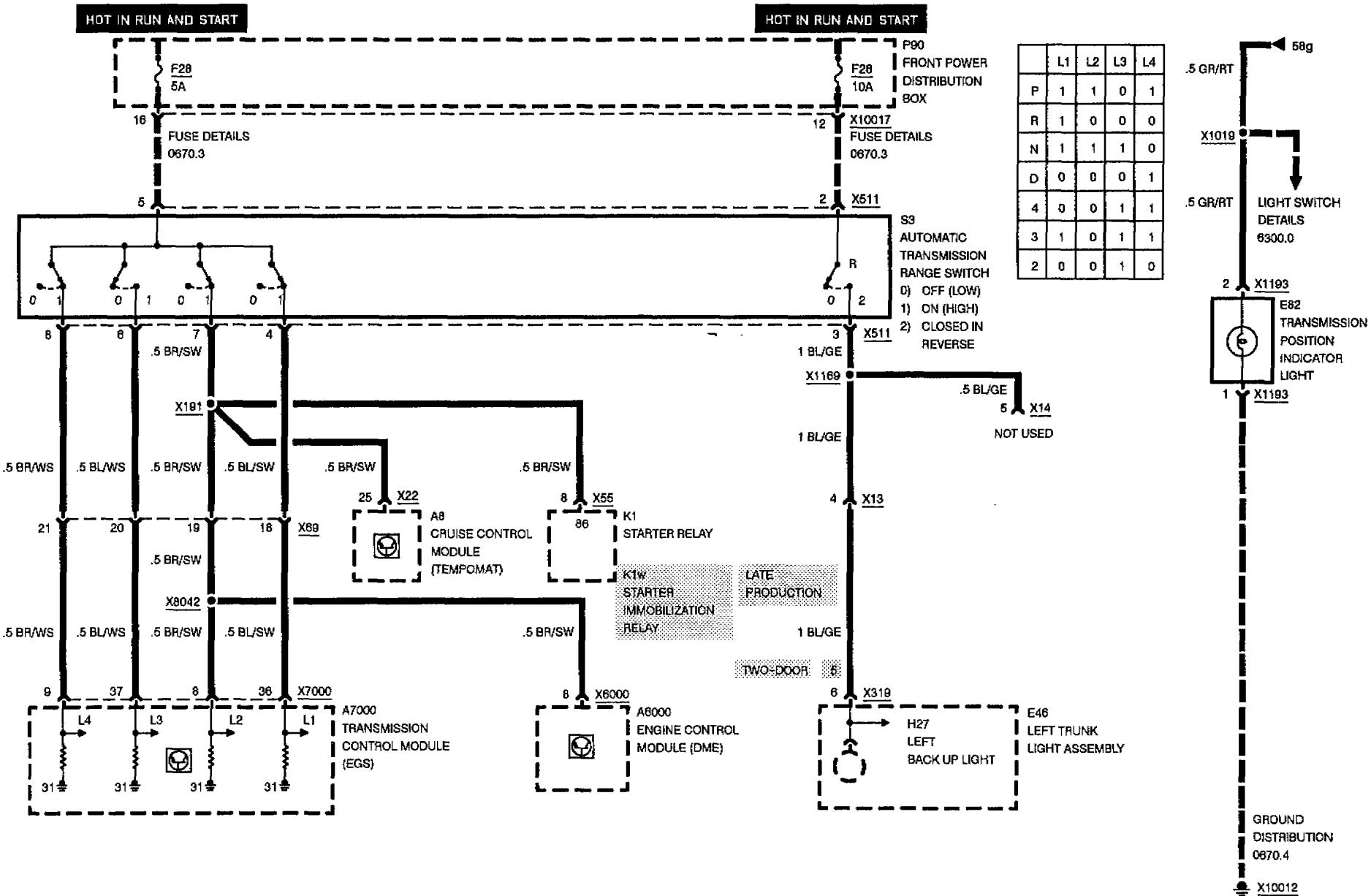
E = Input, A = Output, M = Ground







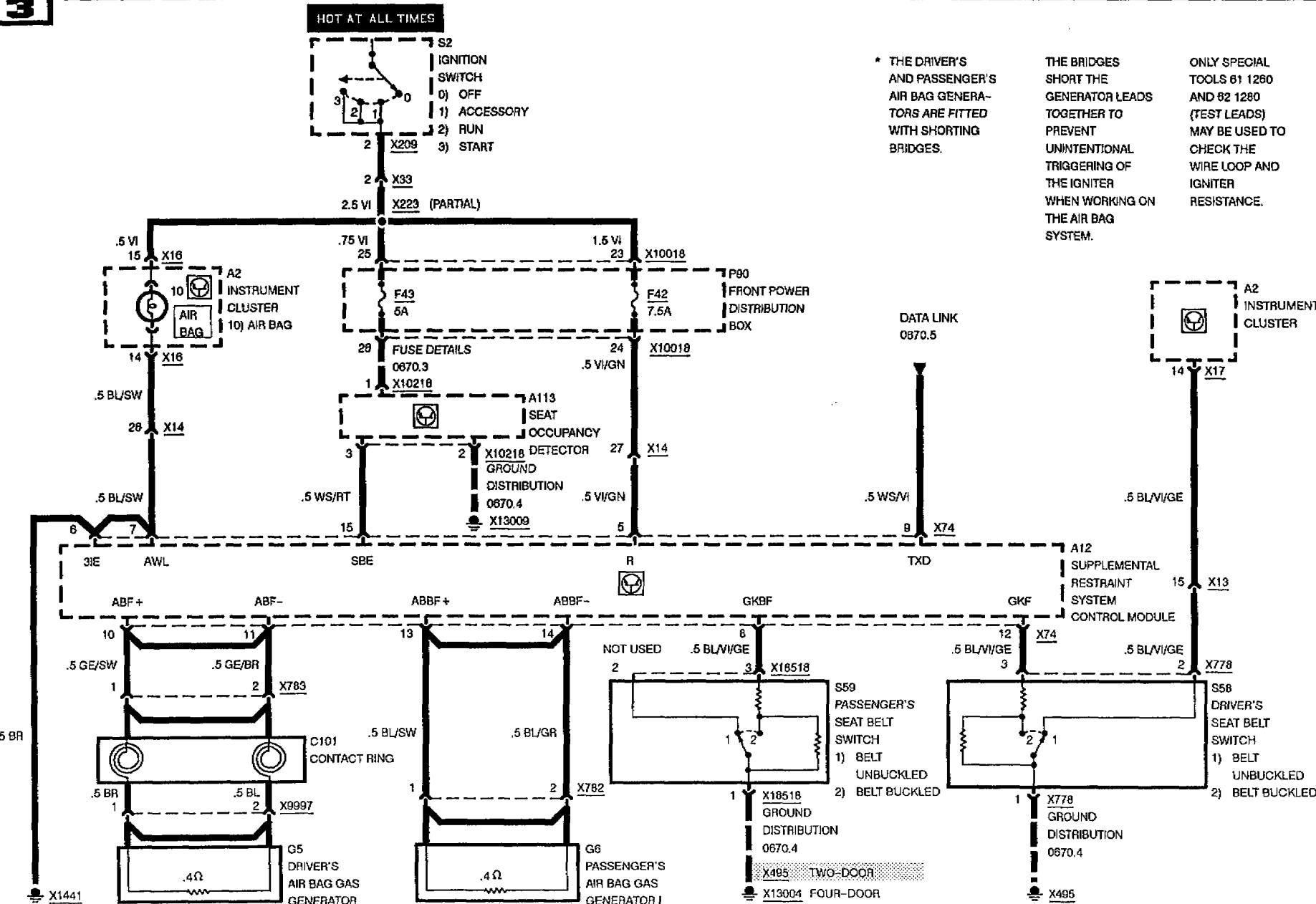






3234.0

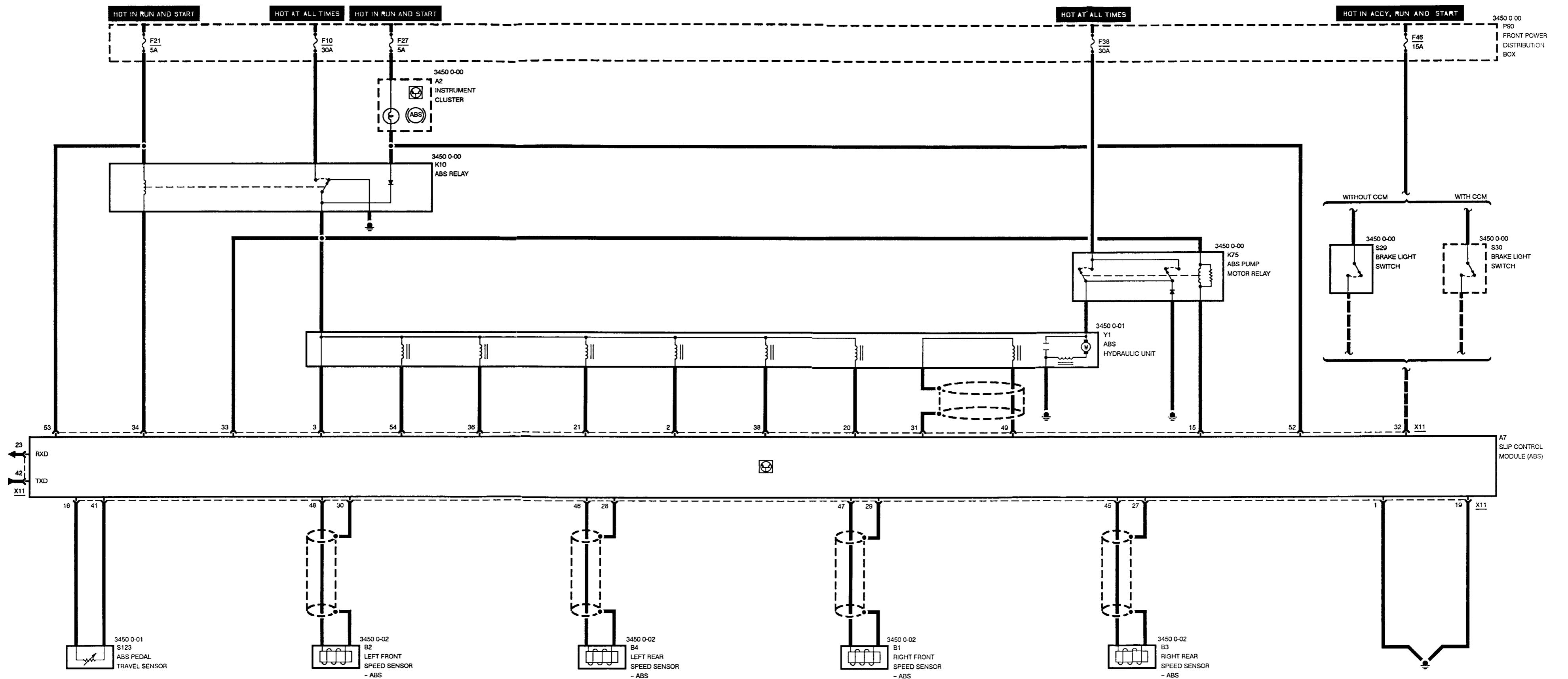
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

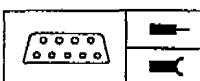


12/94 ————— 3450.0 ————— 1994

12/94 ————— 3450.0 ————— 1994

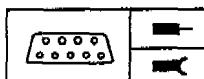
12/94 ————— 3450.0 ————— 1994



**Pin Assignments****X11**

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

E = Input, A = Output, M = Ground



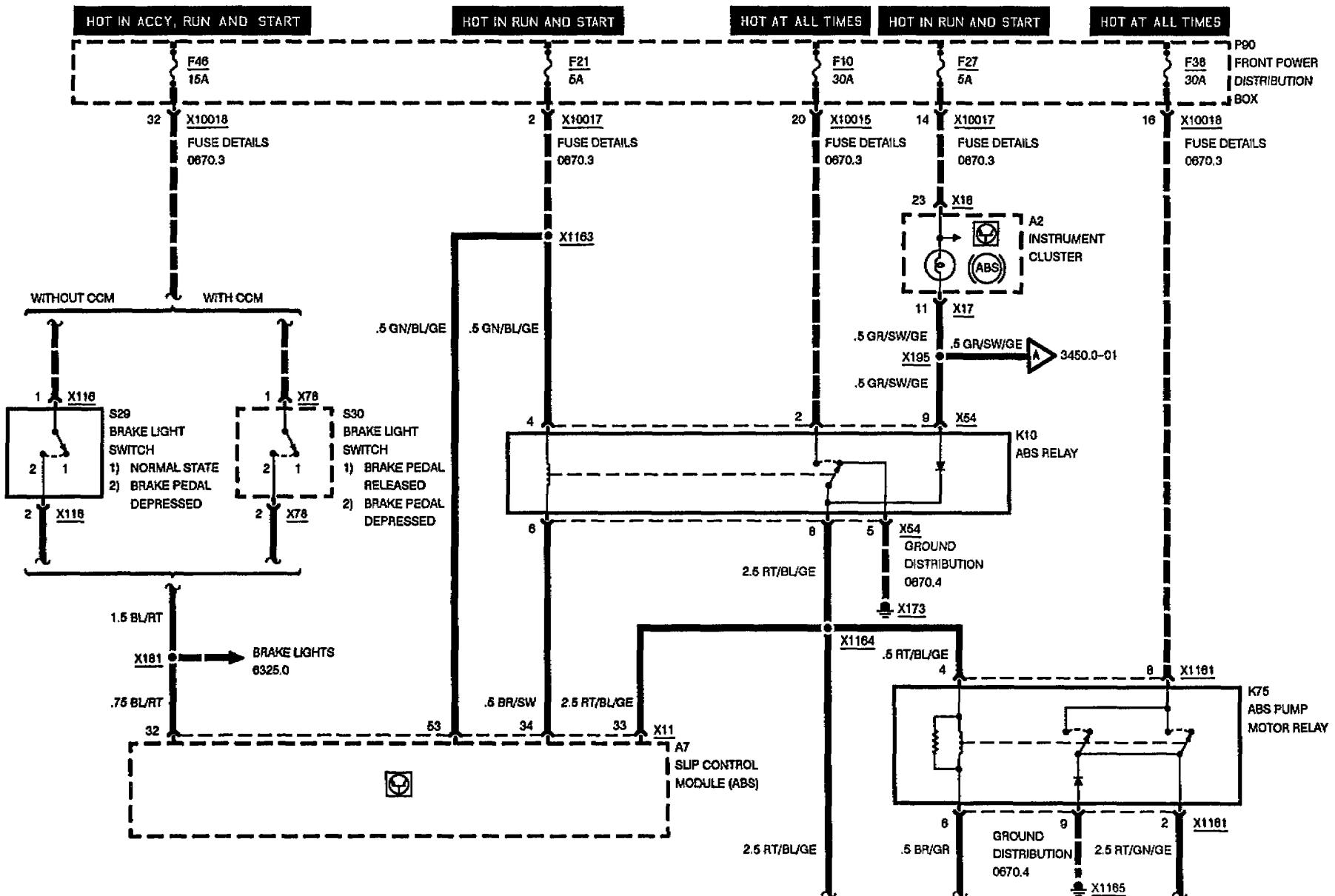
Pin Assignments

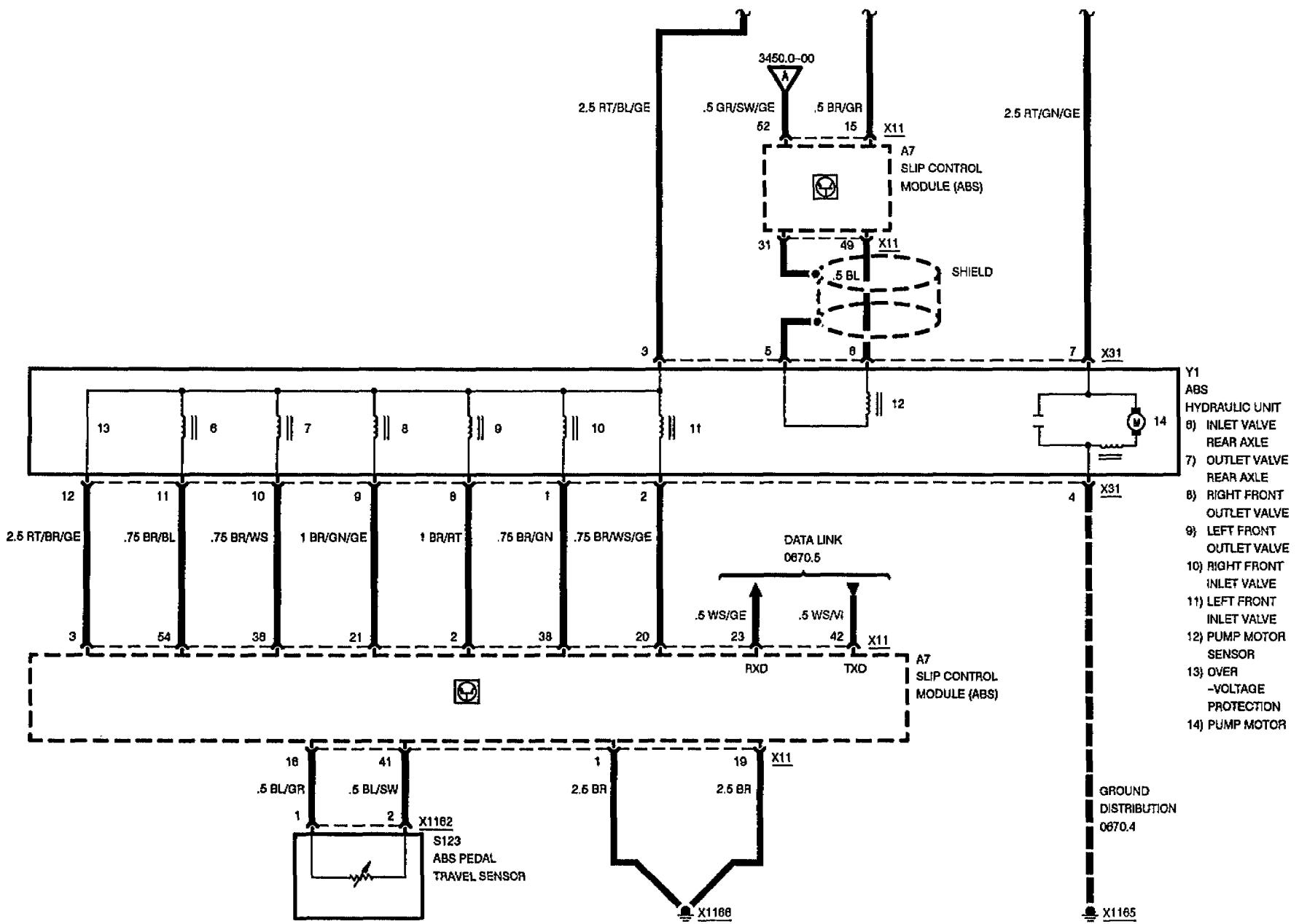
Pin	Type	Description/Function	Connection
31	E	Pump motor sensor shield	ABS hydraulic unit
32	E	Brake pedal position	Brake light switch
33	E	Operating voltage	ABS relay
34	A	ABS relay control	ABS relay
35		Not used	
36	A	Rear axle outlet valve control	ABS hydraulic unit
37		Not used	
38	A	Inlet valve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

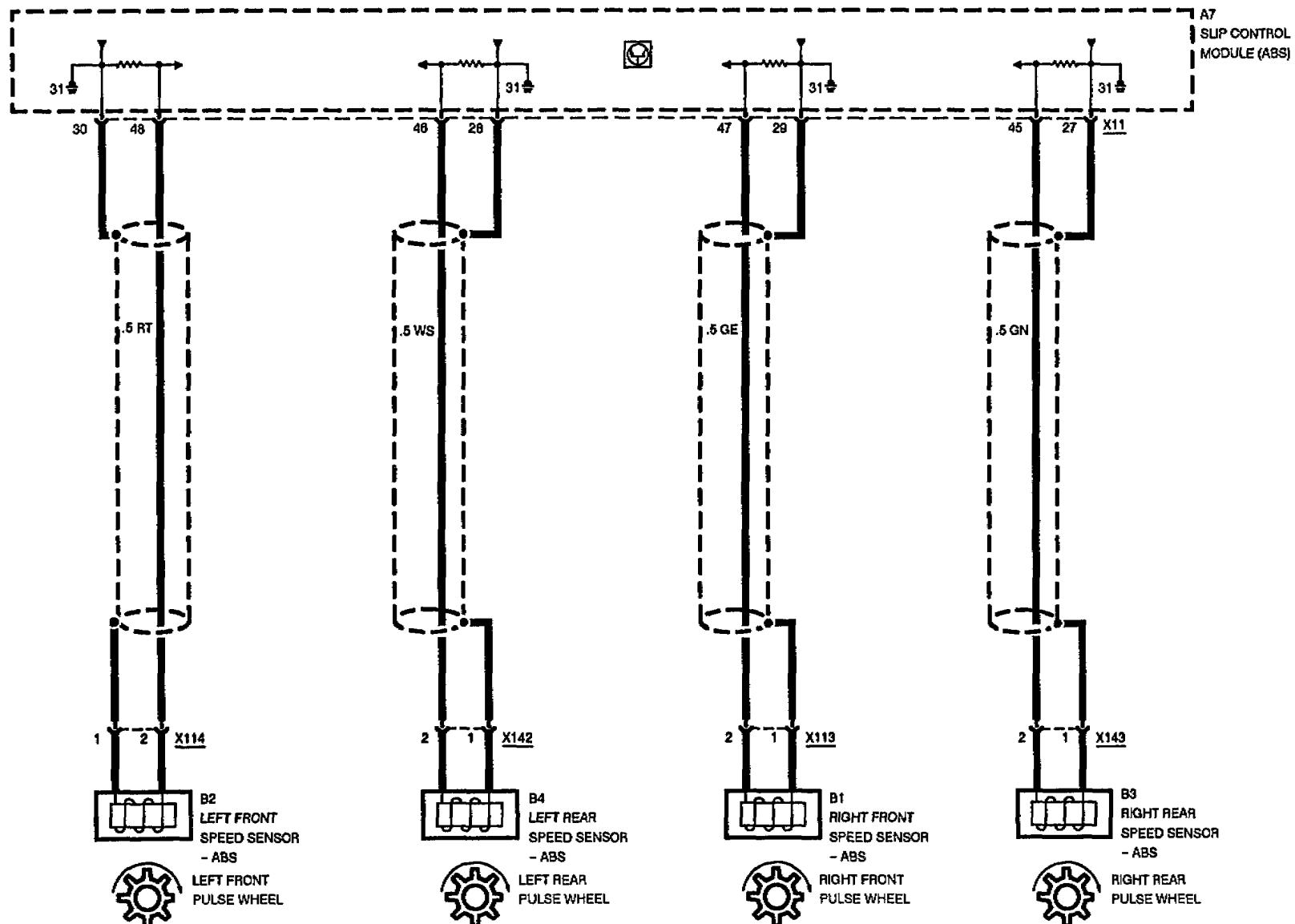


3450.0

SLIP CONTROL (ABS)







12/9

— 3450.3

— 1994

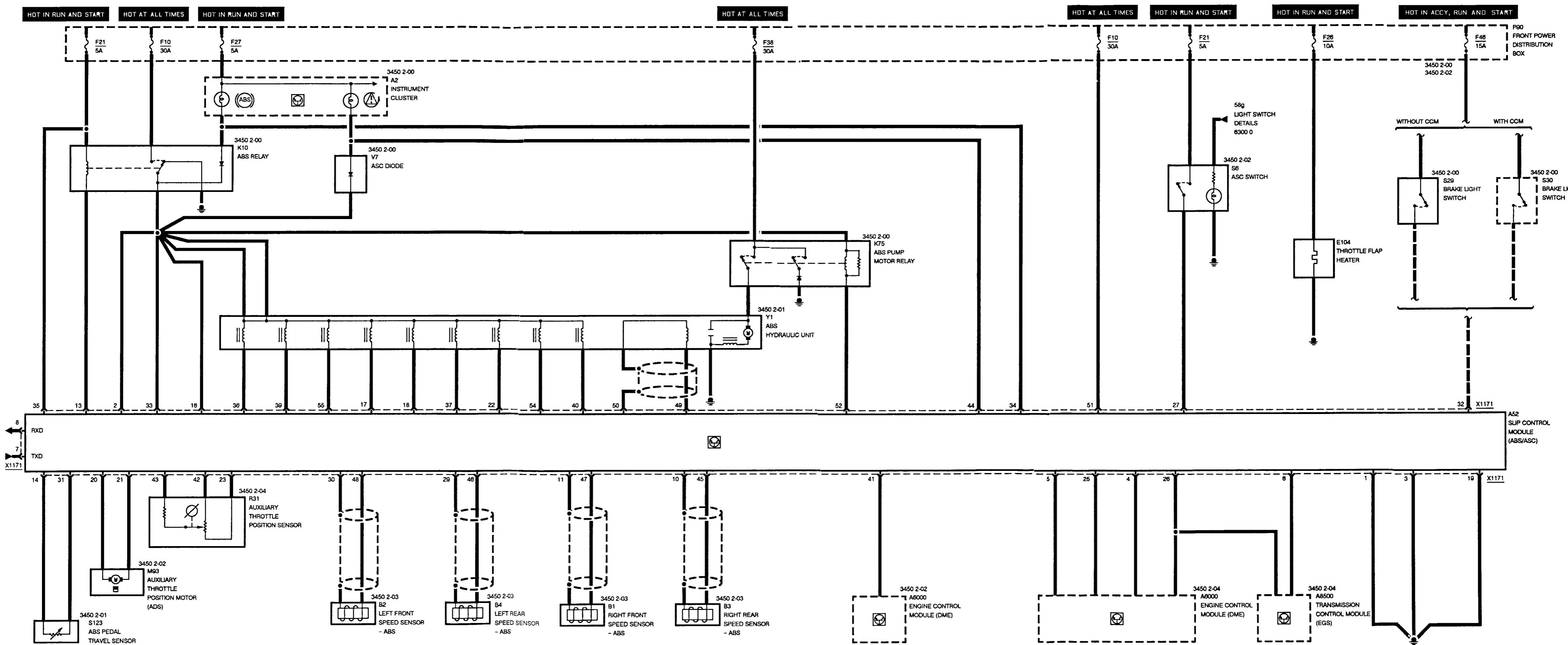
12/

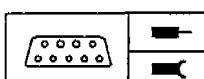
— 3450.

1

3450 2 -

1994



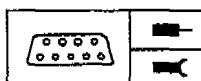


Pin Assignments

X1171

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

E = Input, A = Output, M = Ground

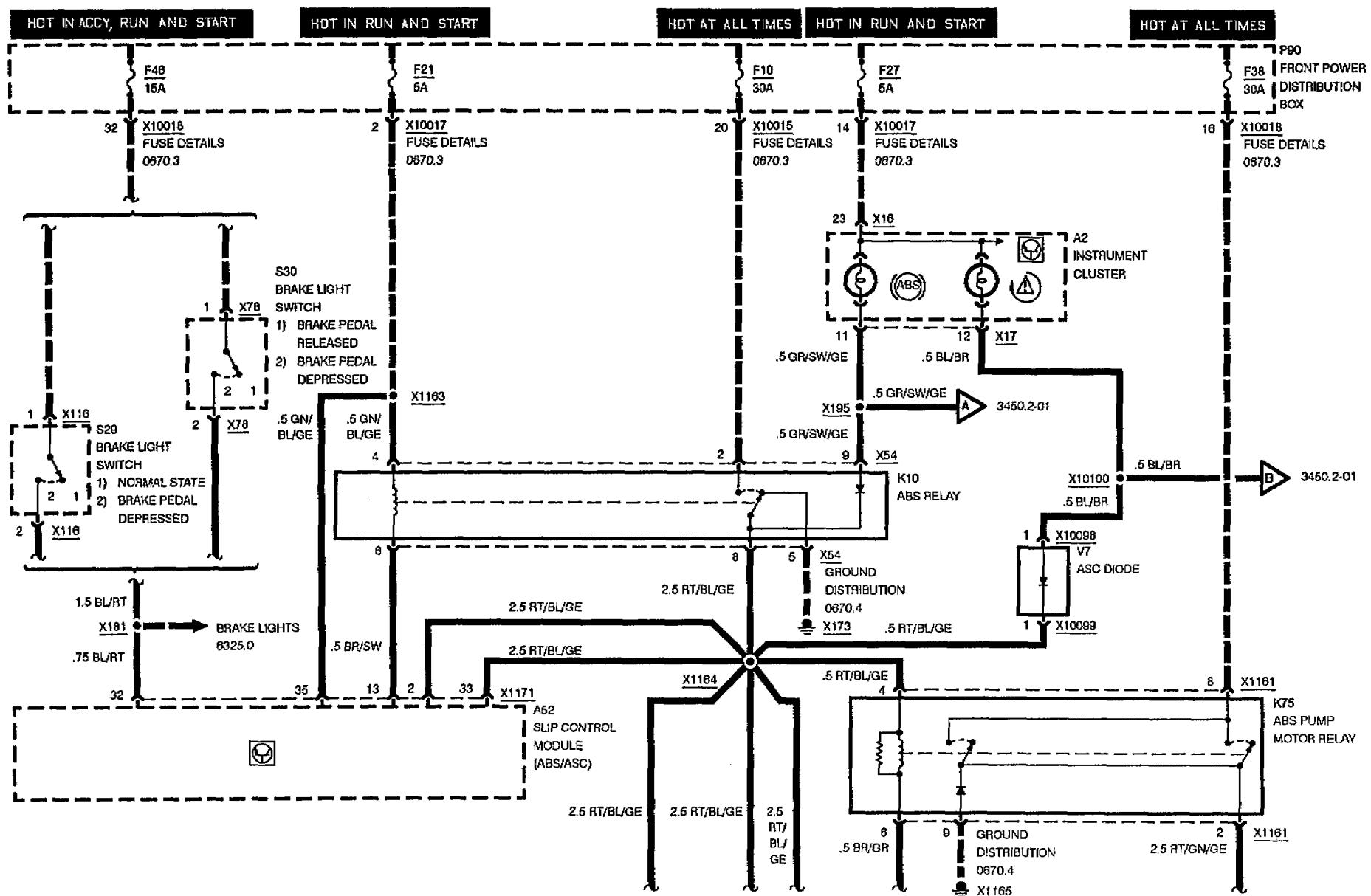


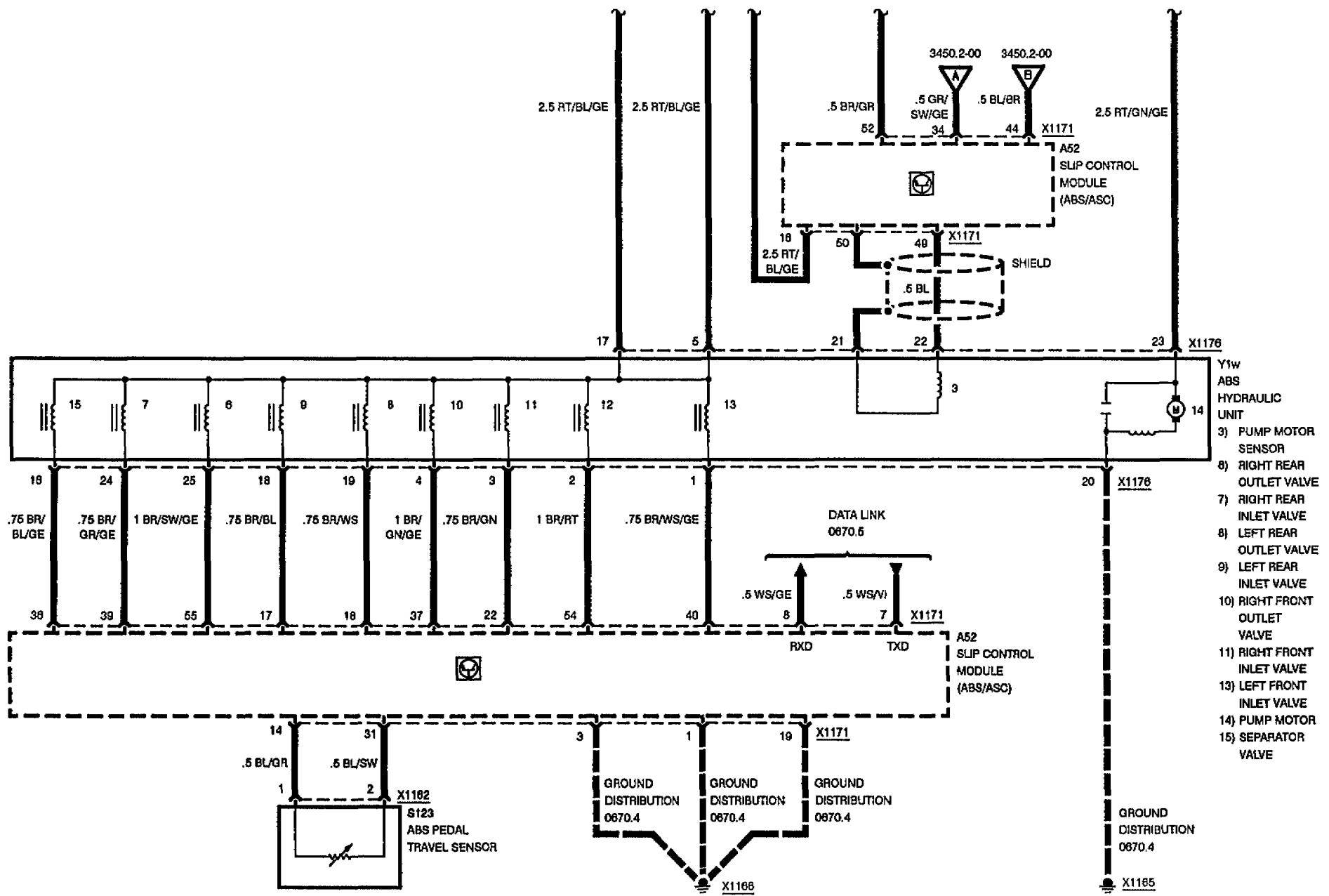
Pin Assignments

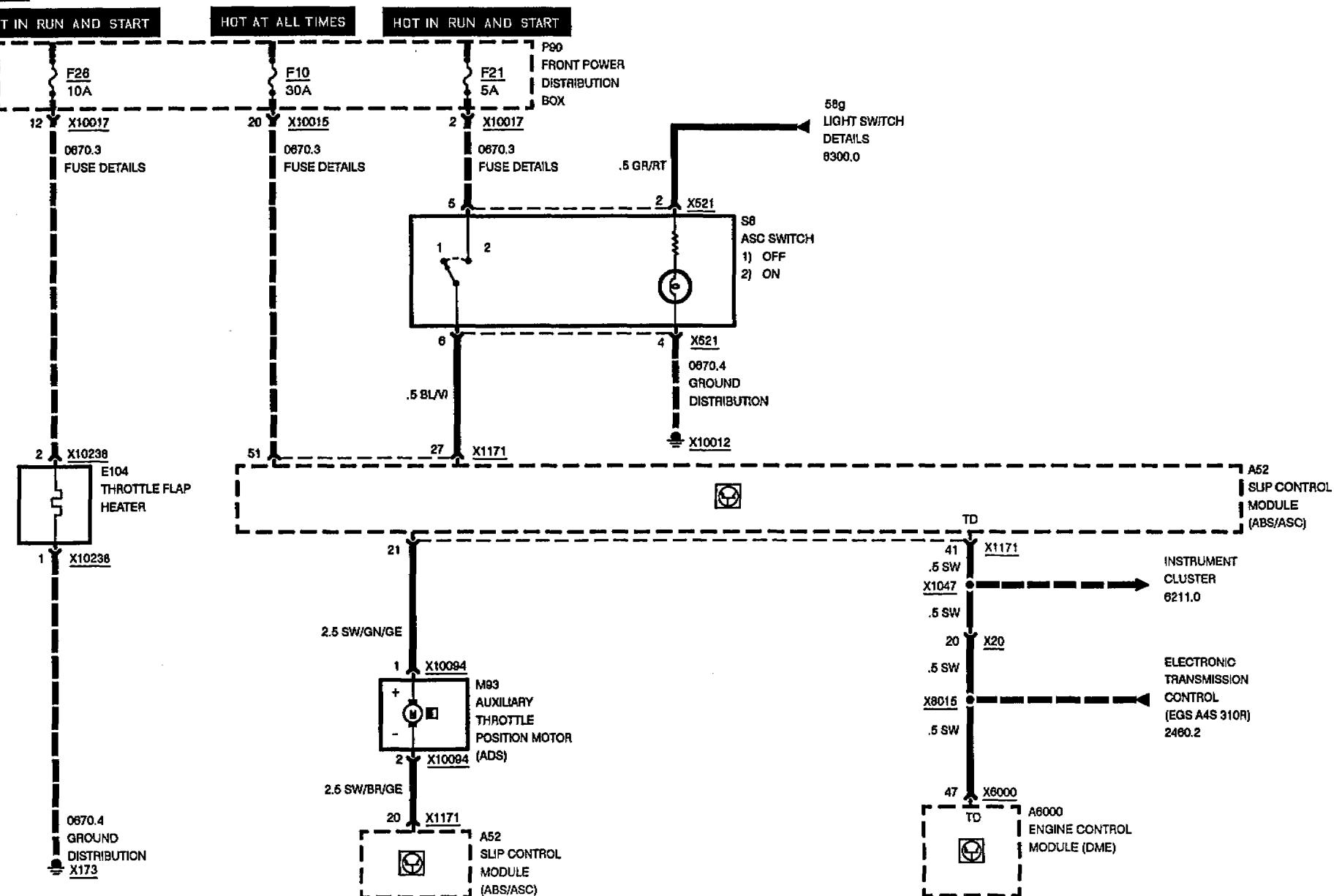
Pin	Type	Description/Function	Connection
31	A	Signal ABS-travel sensor	ABS-travel sensor
32	E	Brake signal	Brake light switch
33	E	Plus supply	ABS-protection relay
34	A	ABS-lamp control	Instrument cluster
35	E	Ignition signal	Ignition switch
36	A	Solenoid valve	ABS-hydraulic unit
37	A	Solenoid valve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



— 3450.2 —



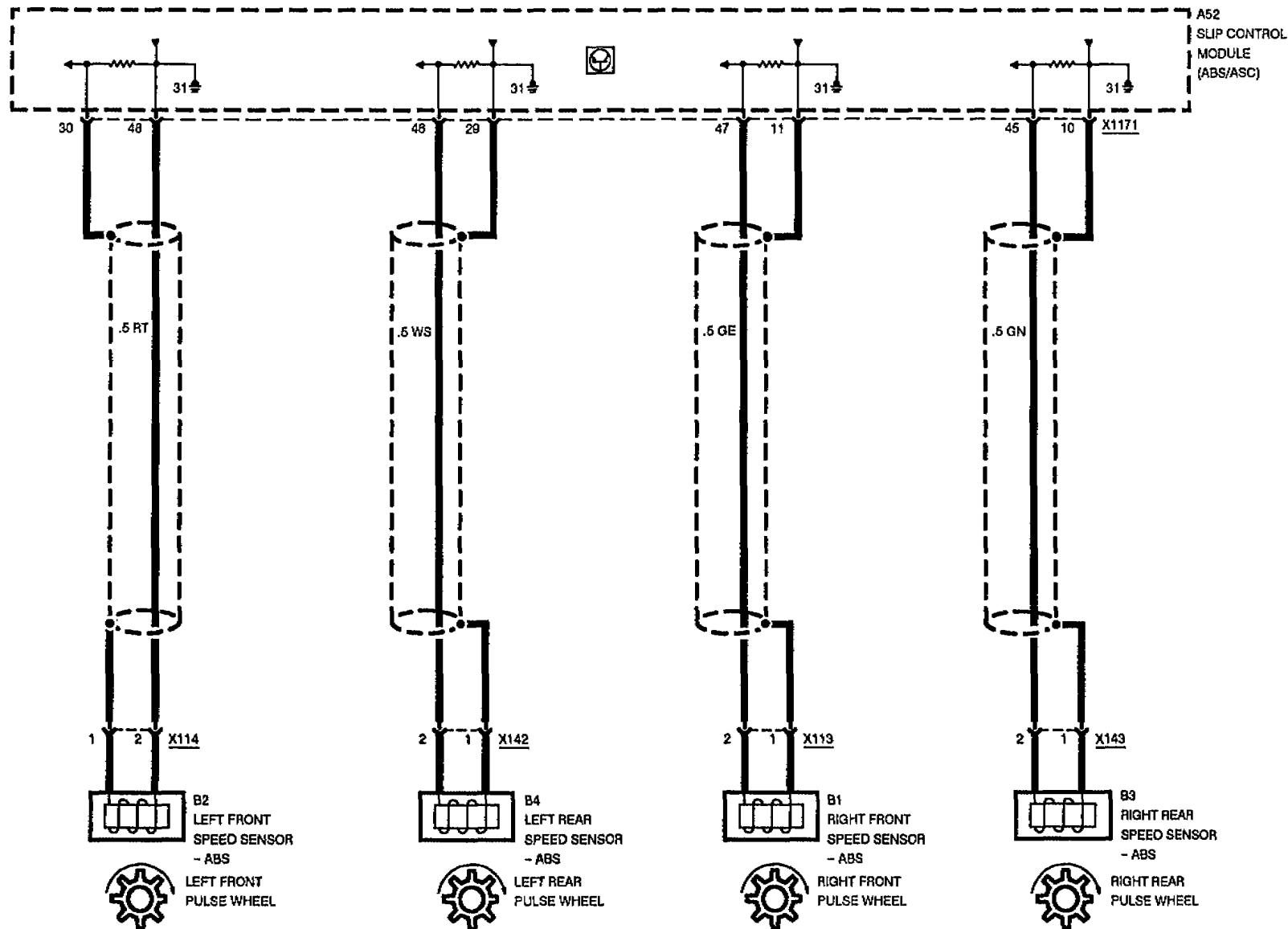


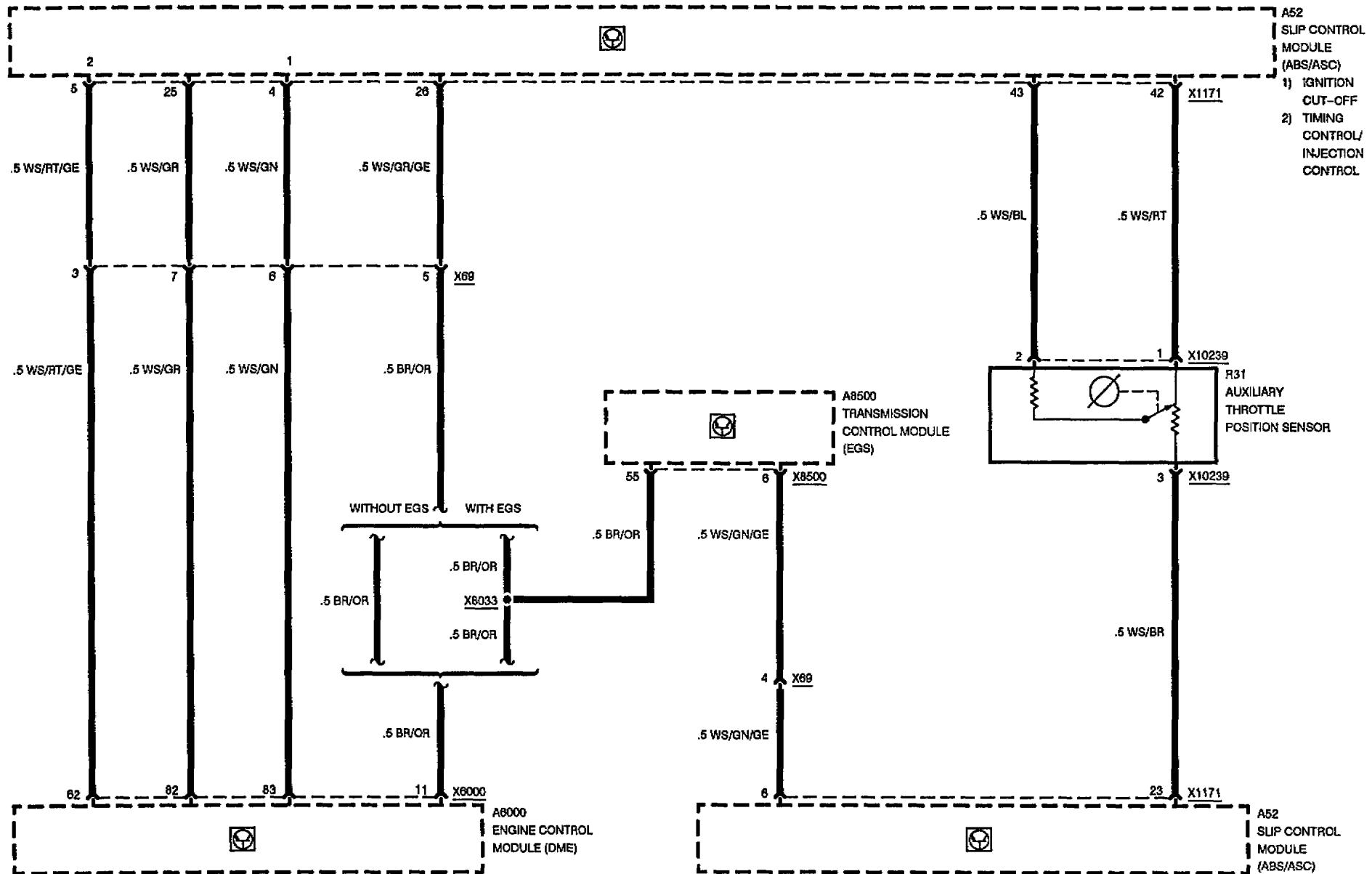




SLIP CONTROL (ABS/ASC + T)

325i





BMW
3

— 5116.0 —



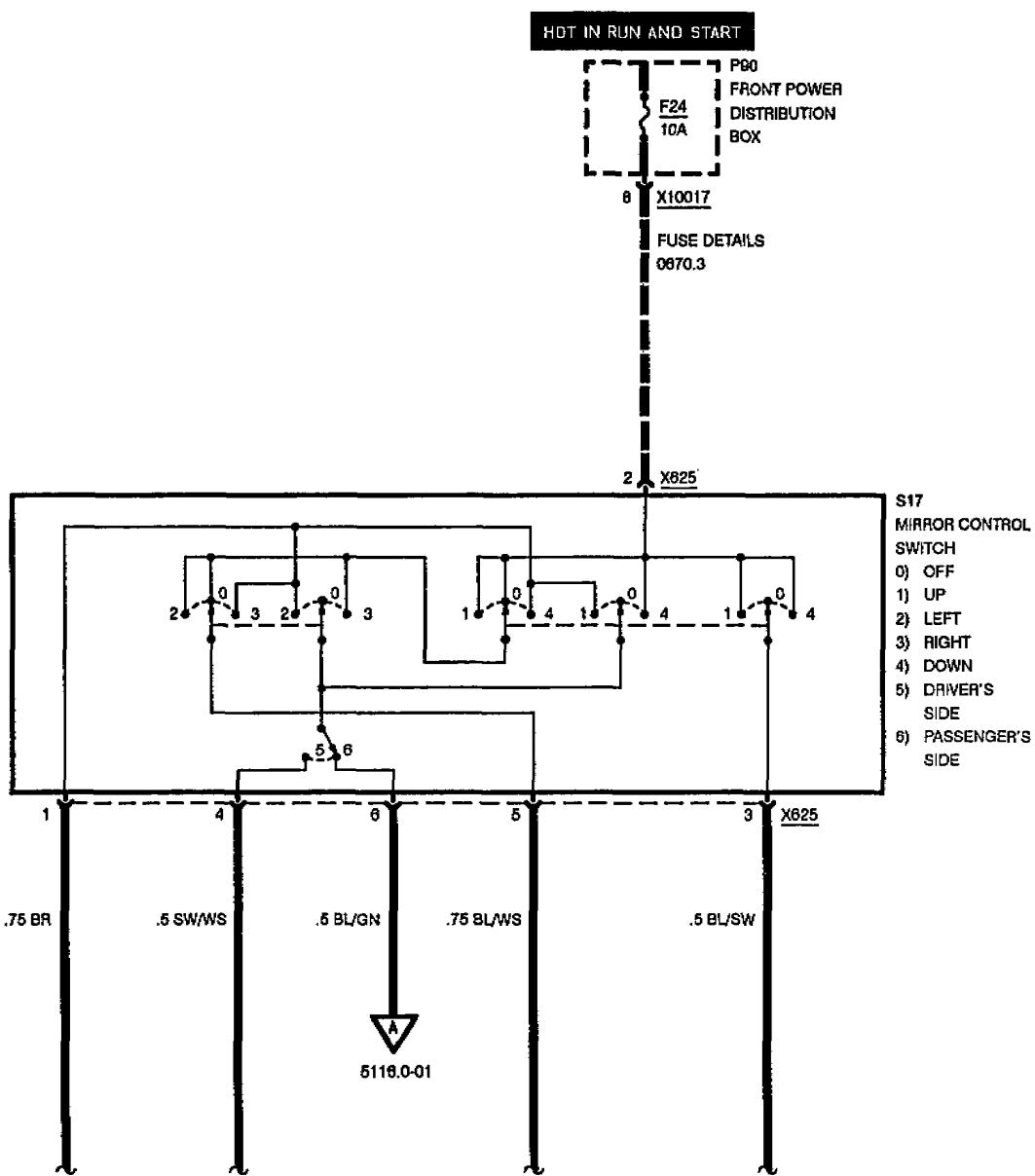
POWER MIRRORS

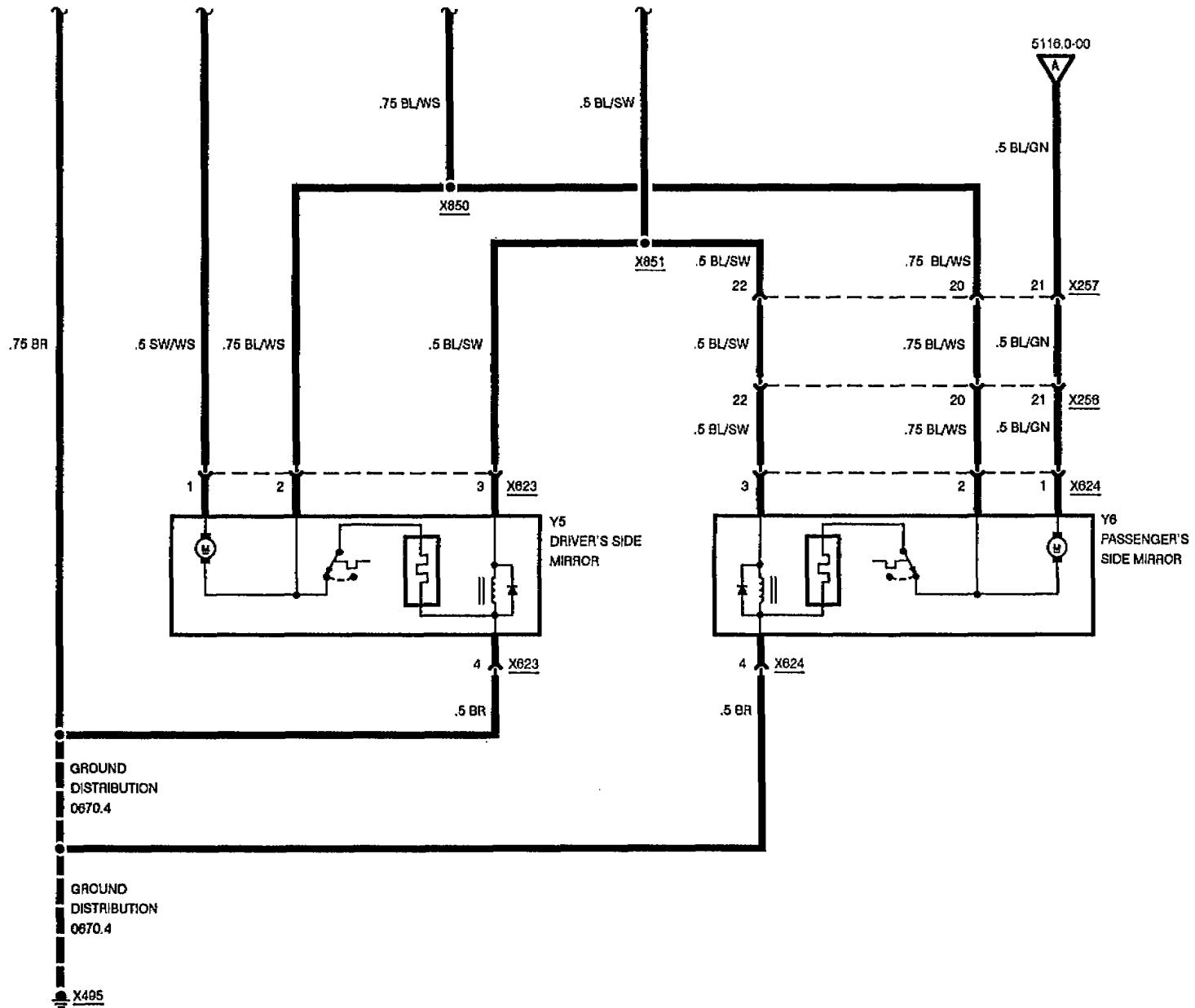
OUTSIDE MIRROR

12/94

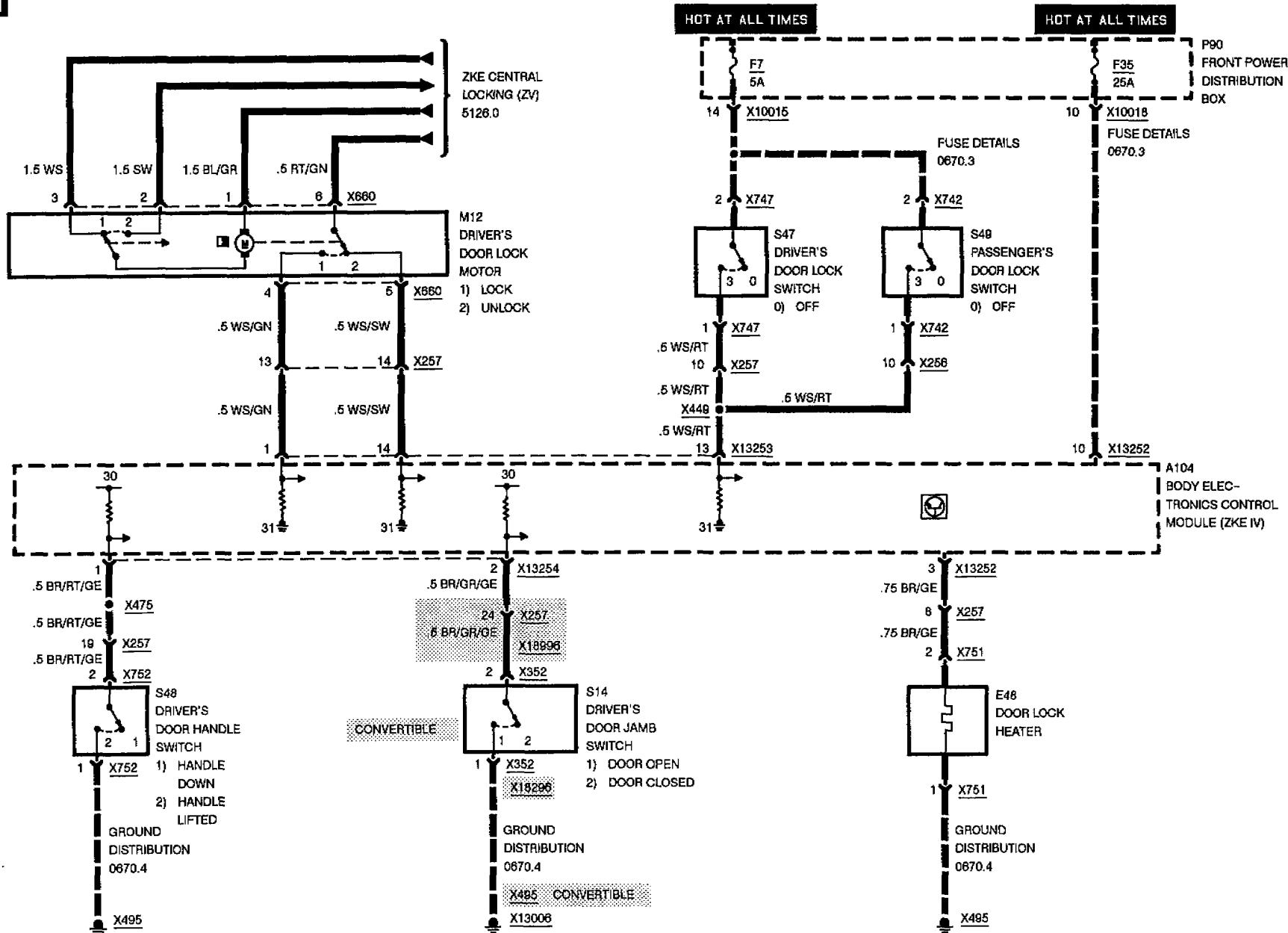
5116.0-00

1994





ZKE DOOR LOCK HEATING (TSH)





5126.0



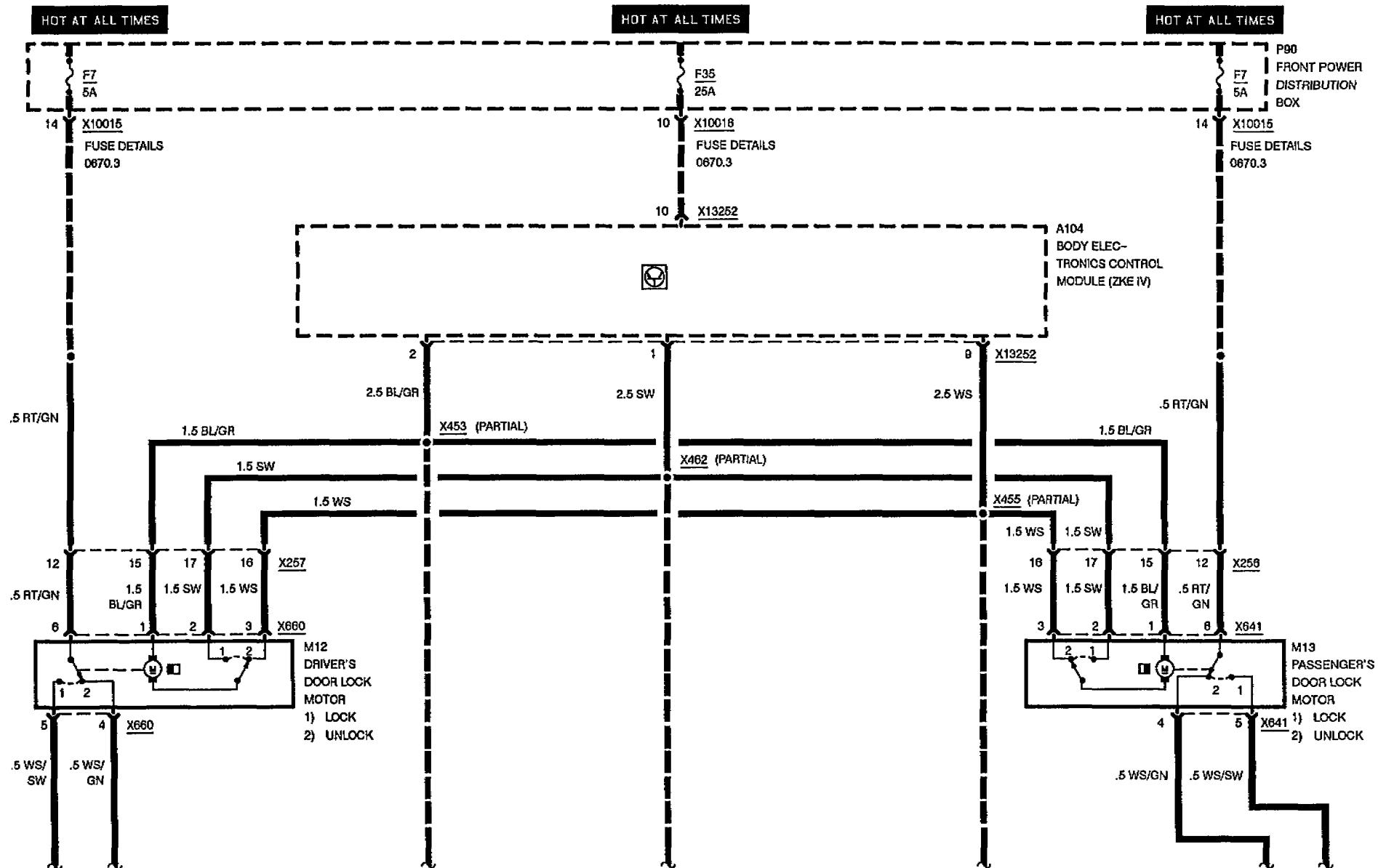
ZKE CENTRAL LOCKING (ZV)

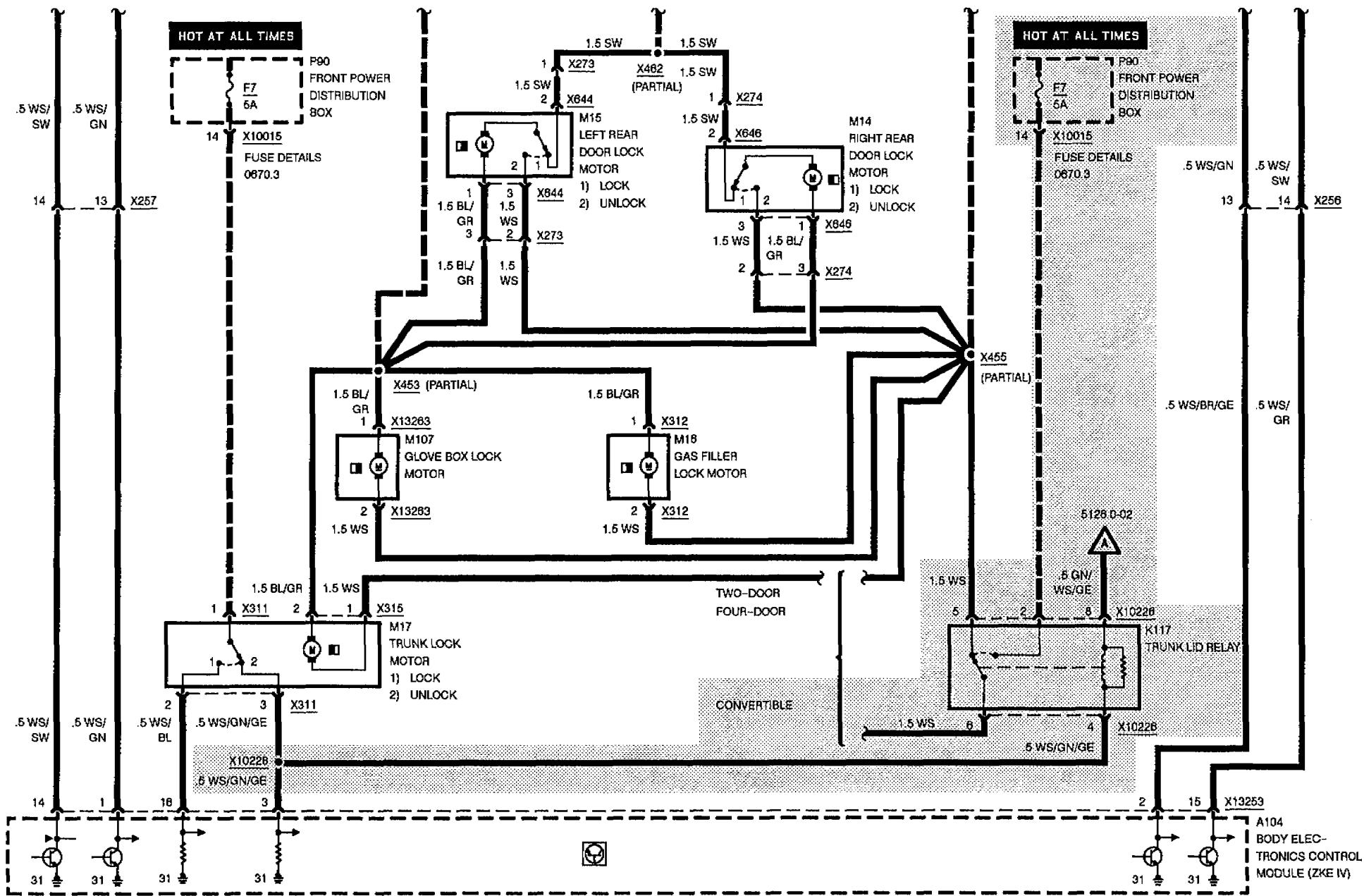
OUTPUT DETAILS

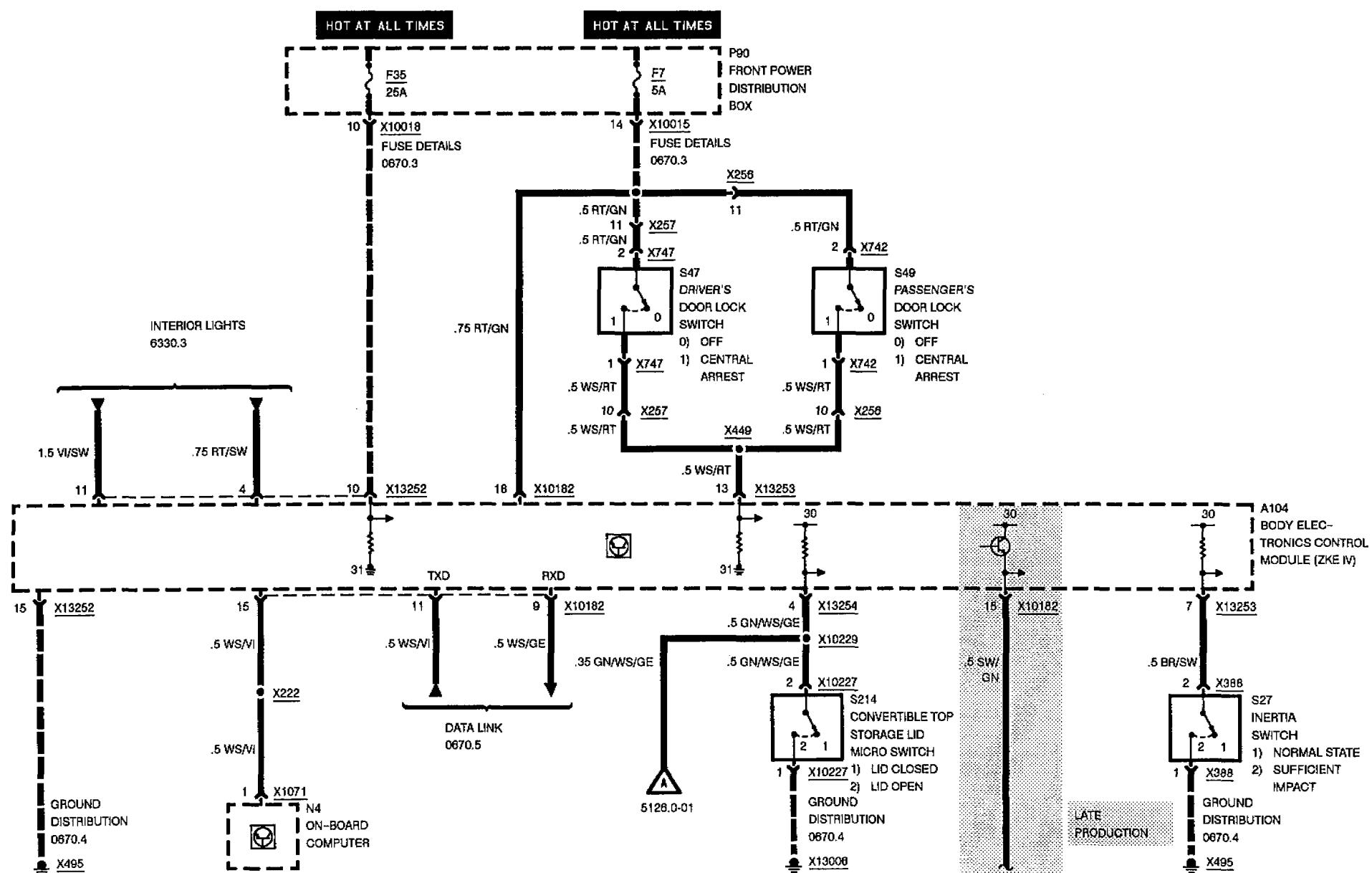
09/93

5126.0-00

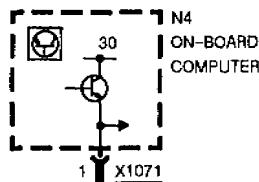
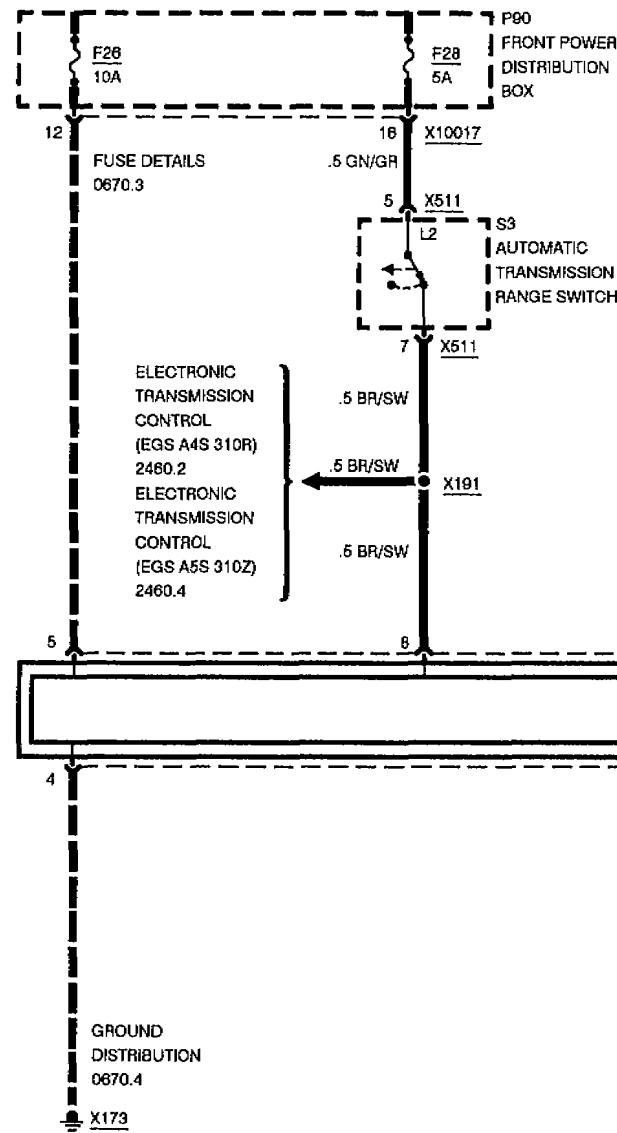
1994



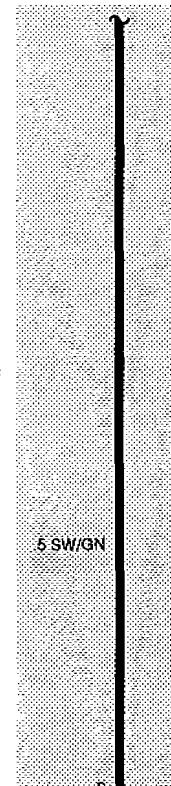




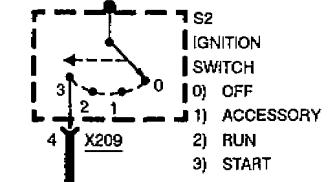
HOT IN RUN AND START HOT IN RUN AND START



LATE PRODUCTION

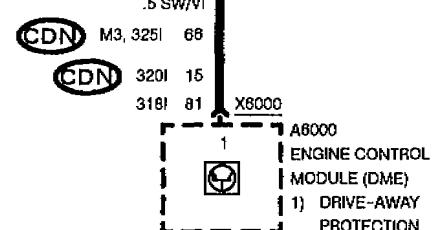
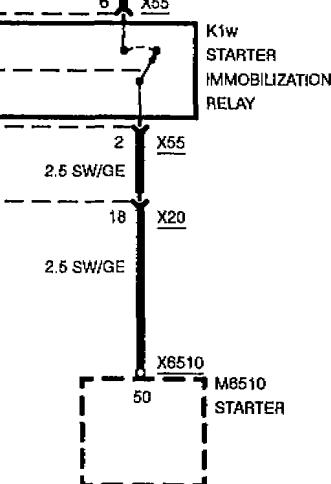


HOT AT ALL TIMES



2.5 SW/GE

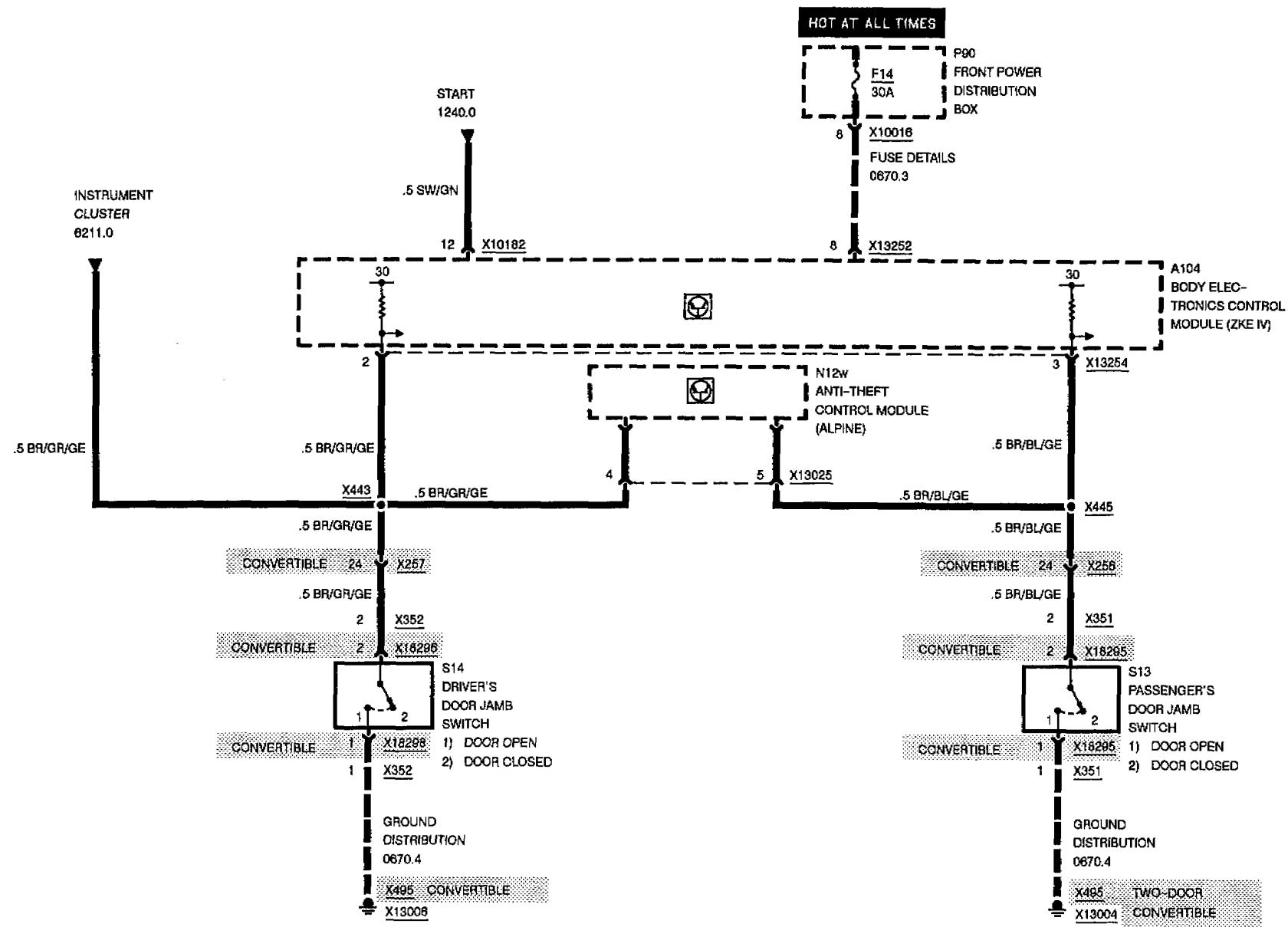
2.5 SW/GE





POWER WINDOWS (FH)

INPUT DETAILS





POWER WINDOWS (FH)

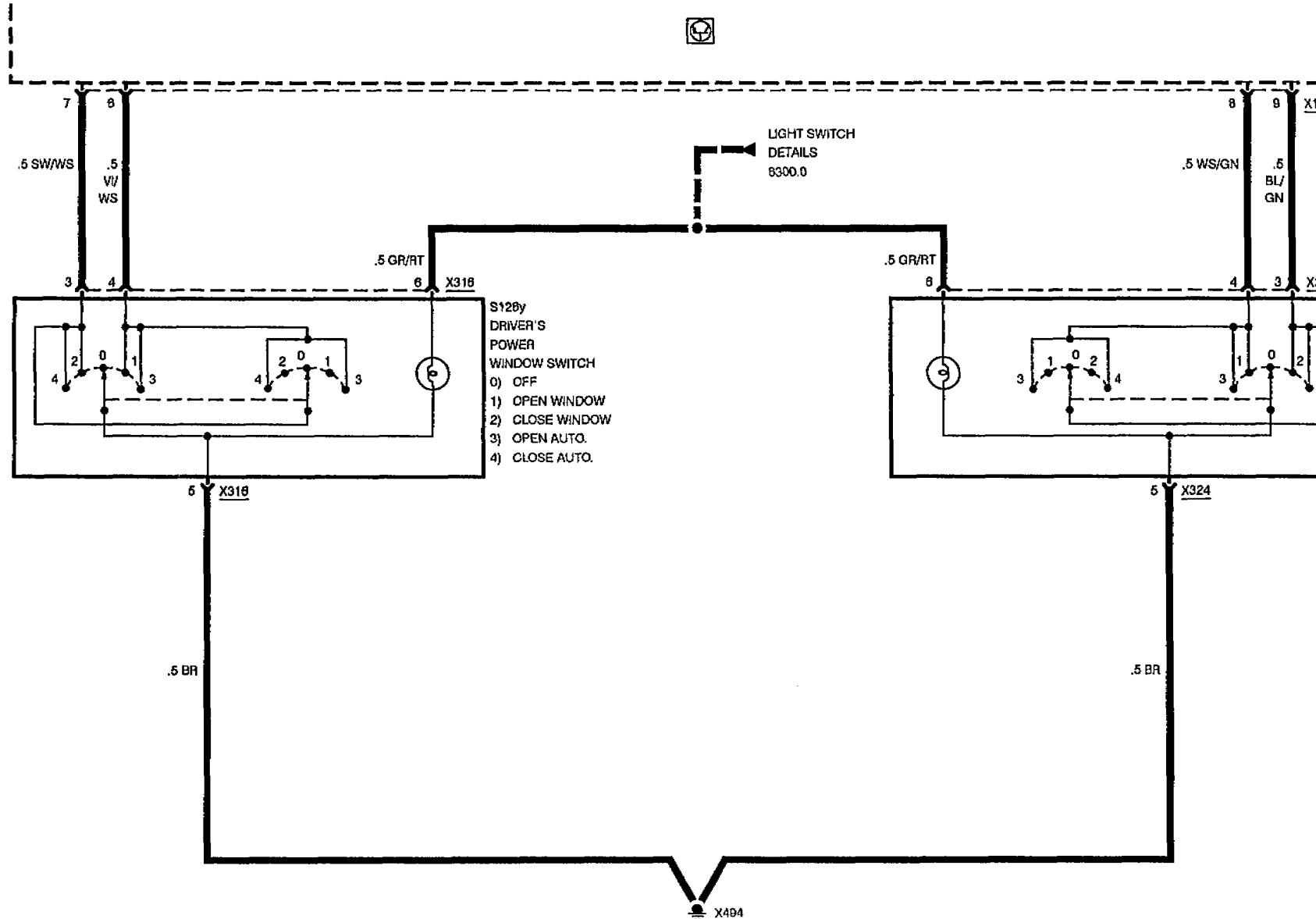
INPUT DETAILS

12/94

5133.1-01

1994

A104
BODY ELECTRONICS CONTROL MODULE (ZKE IV)



S128y
DRIVER'S
POWER
WINDOW SWITCH
0) OFF
1) OPEN WINDOW
2) CLOSE WINDOW
3) OPEN AUTO.
4) CLOSE AUTO.

S127y
PASSENGER'S
POWER WINDOW
SWITCH
0) OFF
1) OPEN WINDOW
2) CLOSE WINDOW
3) OPEN AUTO.
4) CLOSE AUTO.



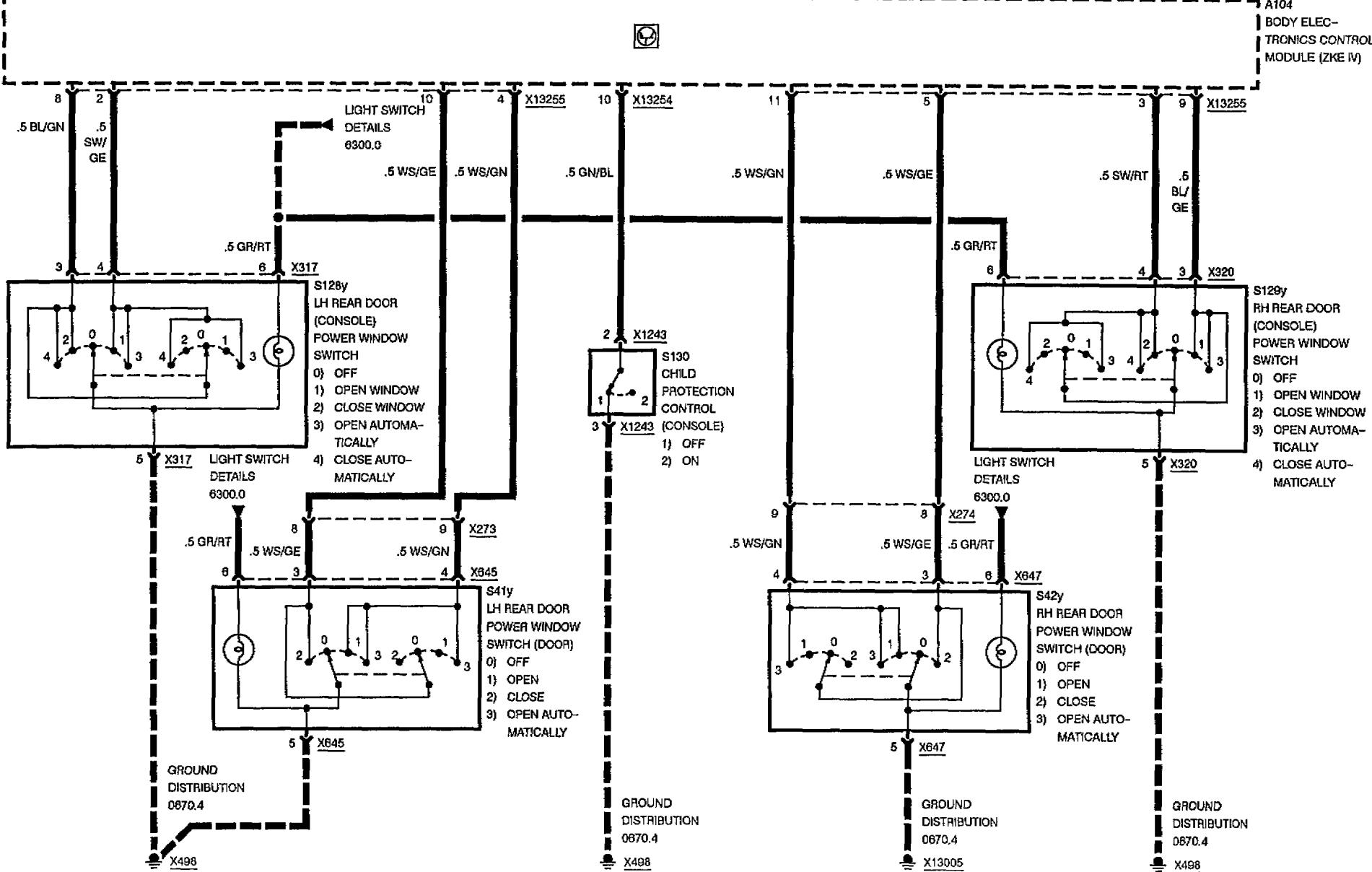
POWER WINDOWS (FH)

INPUT DETAILS

FOUR-DOOR

12/94

A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)



- 5133.1-02

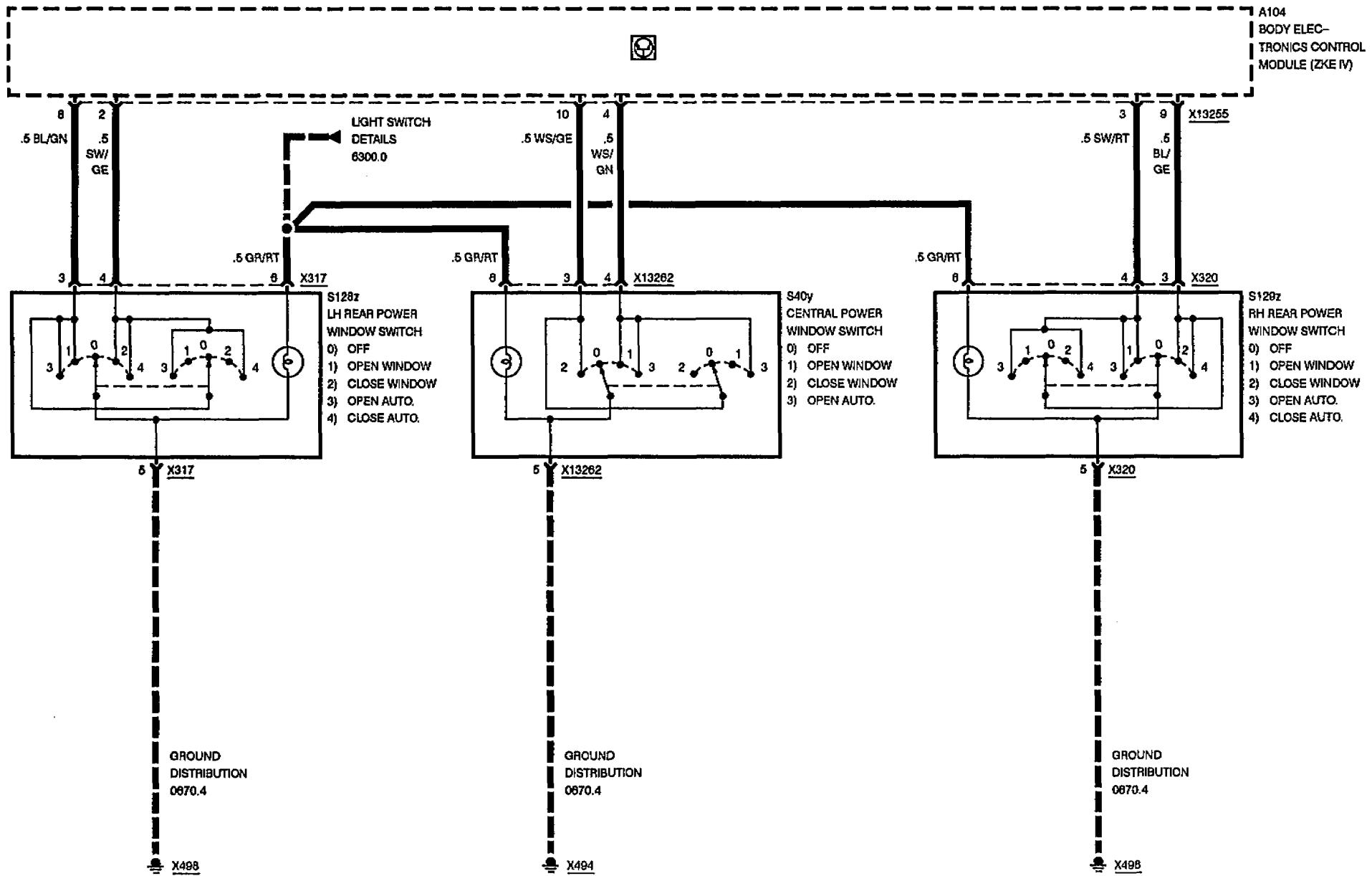
1994



POWER WINDOWS (FH)

CONVERTIBLE

INPUT DETAILS





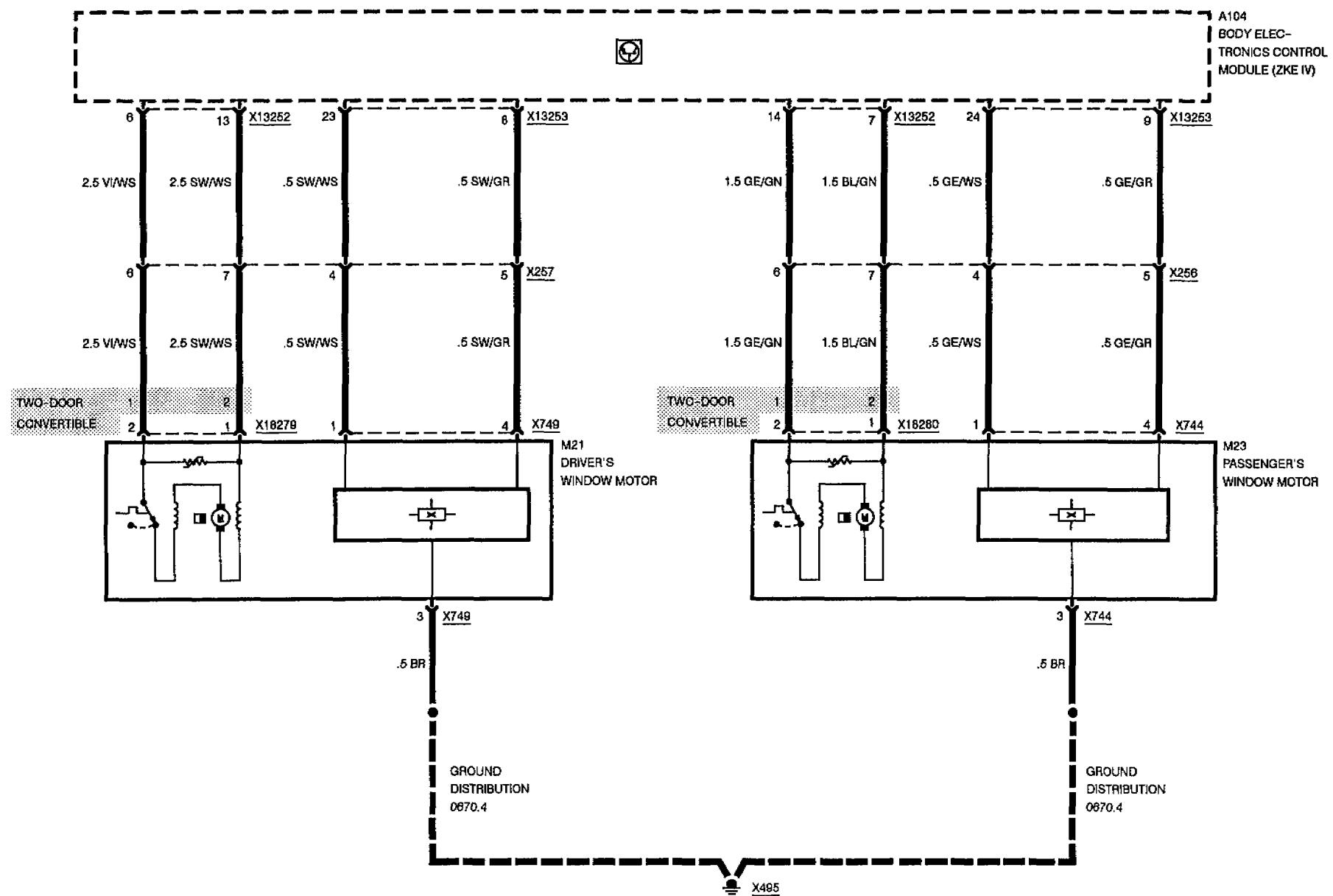
POWER WINDOWS (FH)

OUTPUT DETAILS

12/94

5133.1-04

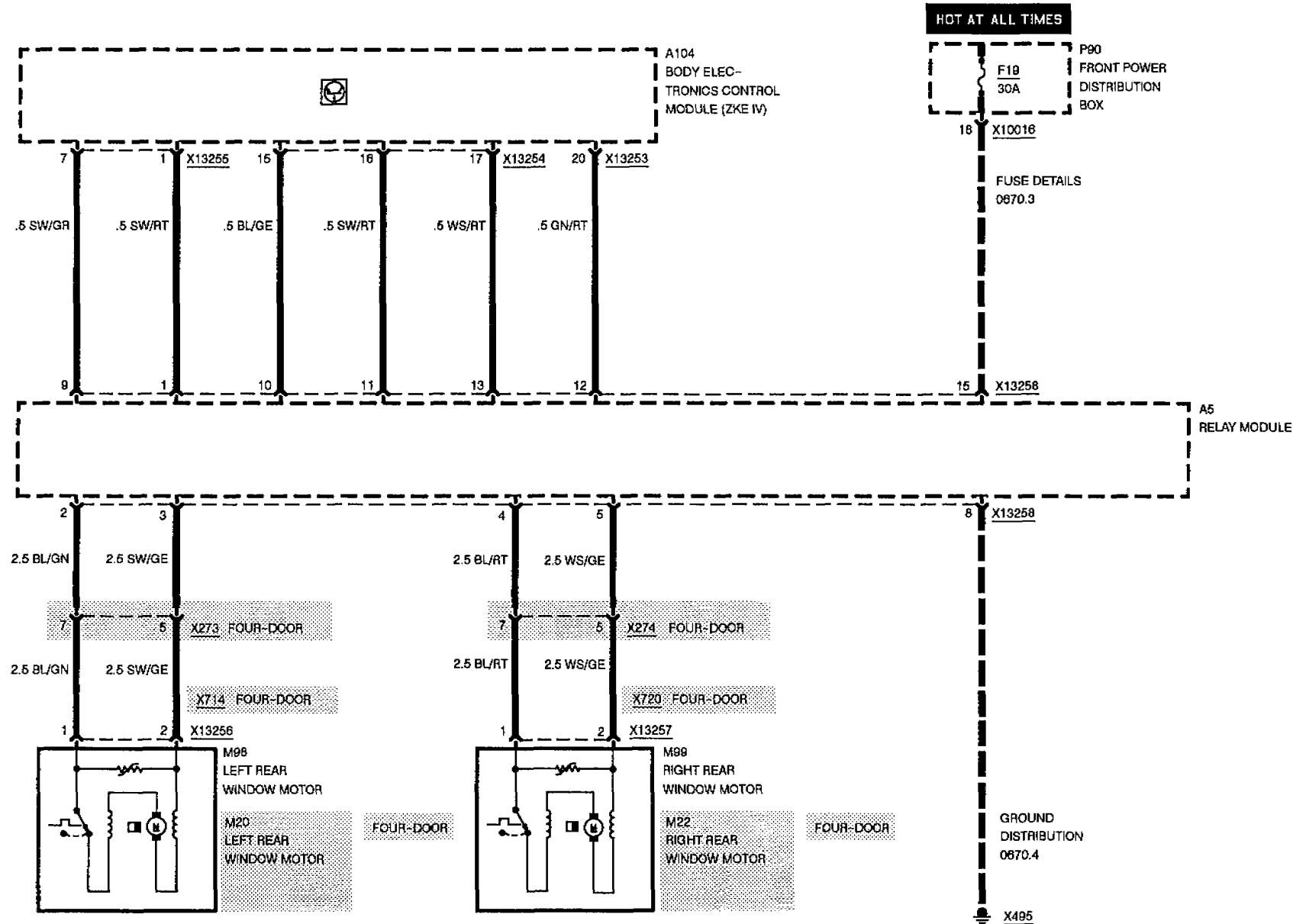
1994

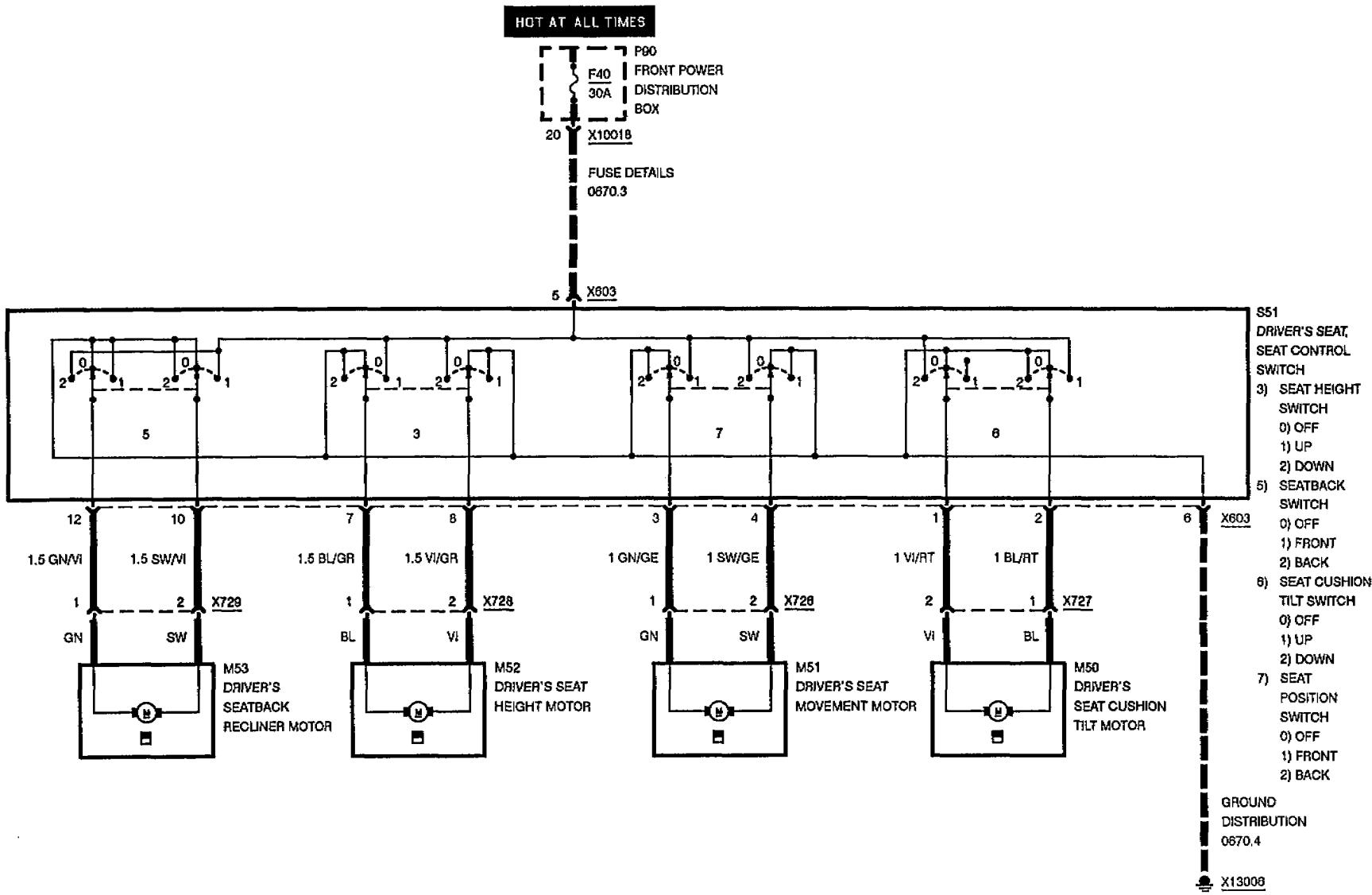




POWER WINDOWS (FH)

OUTPUT DETAILS





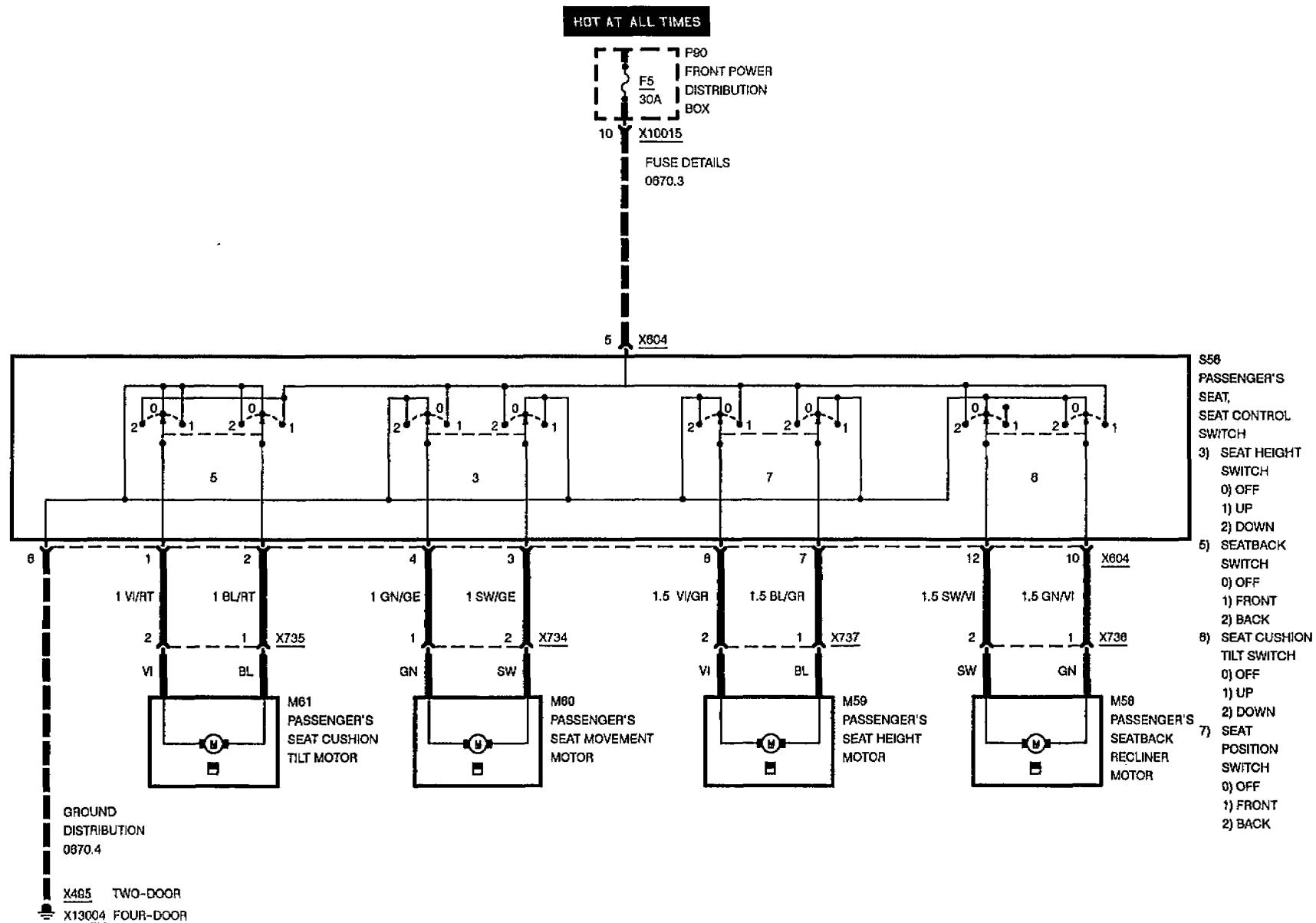


POWER SEATS

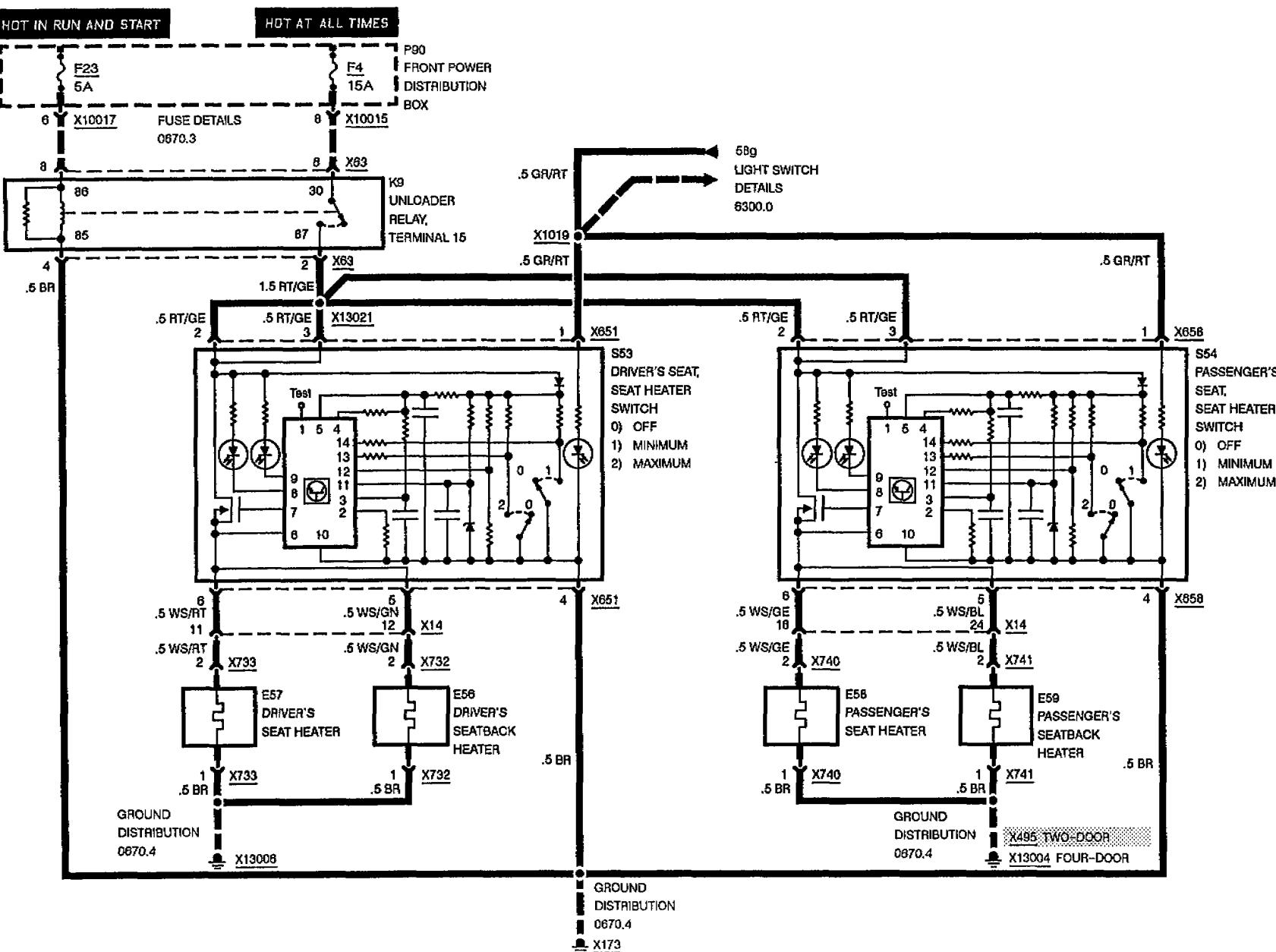
PASSENGER'S SEAT

09/93

5200.0-01

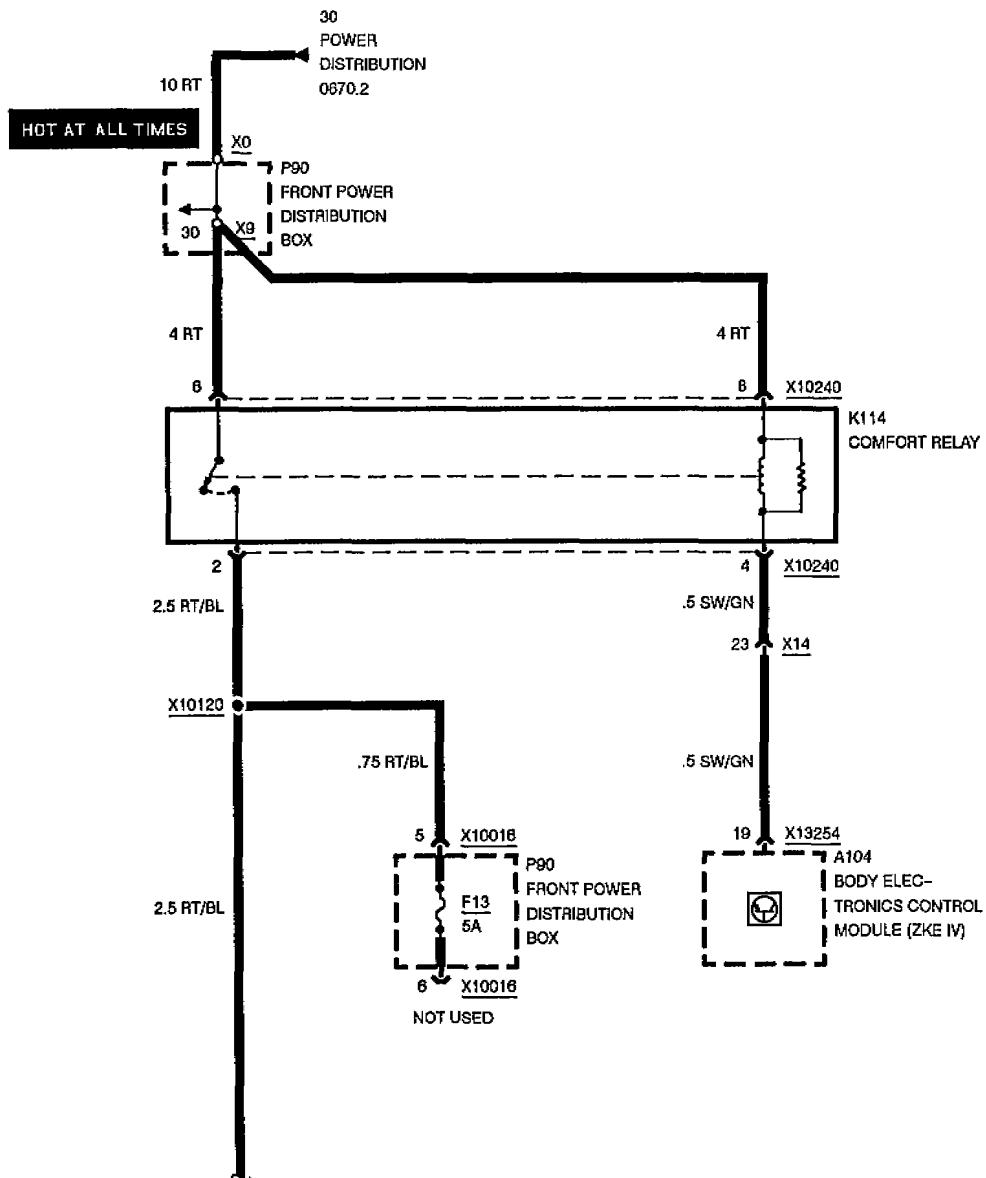


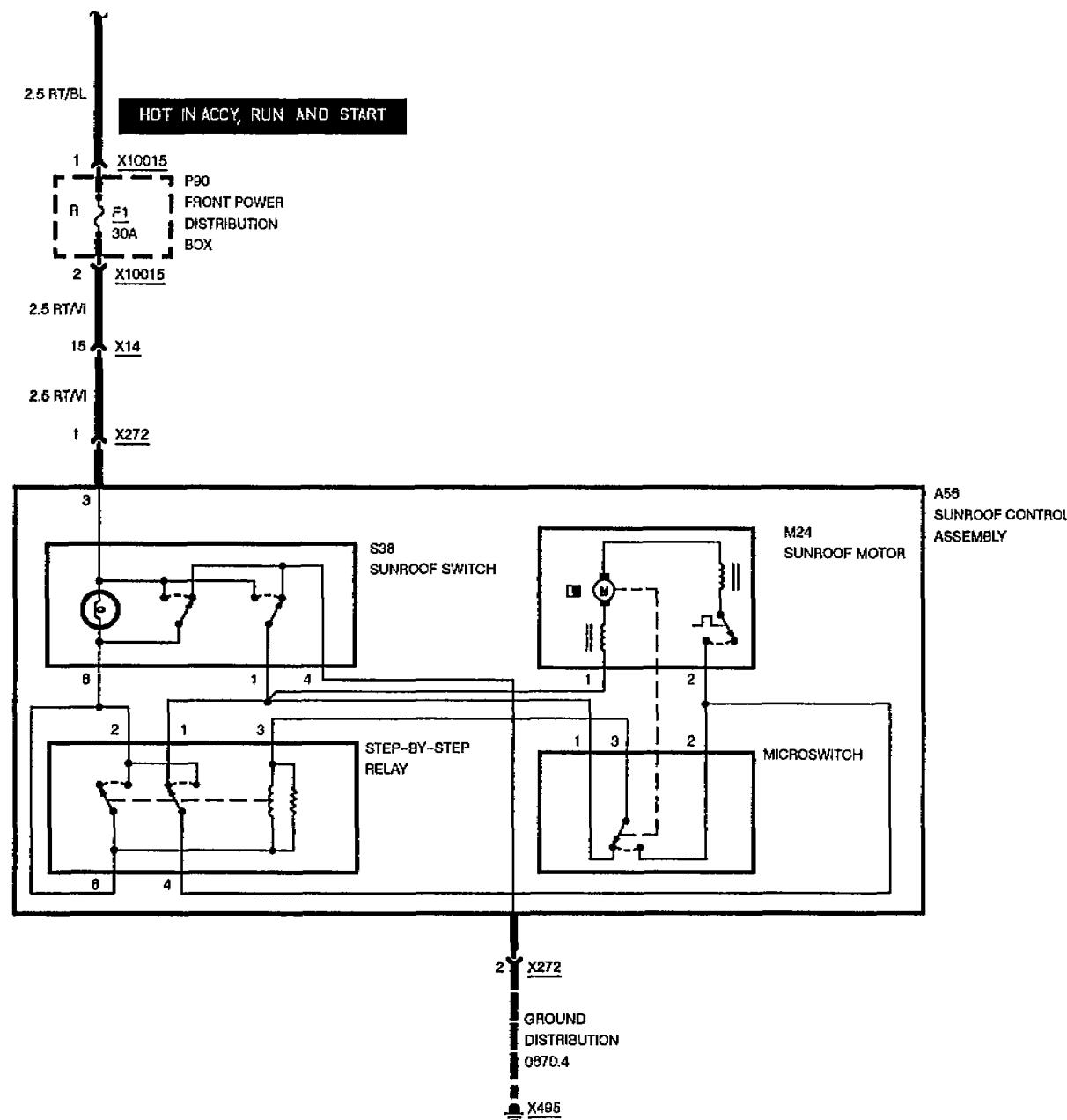
1994





5410.1





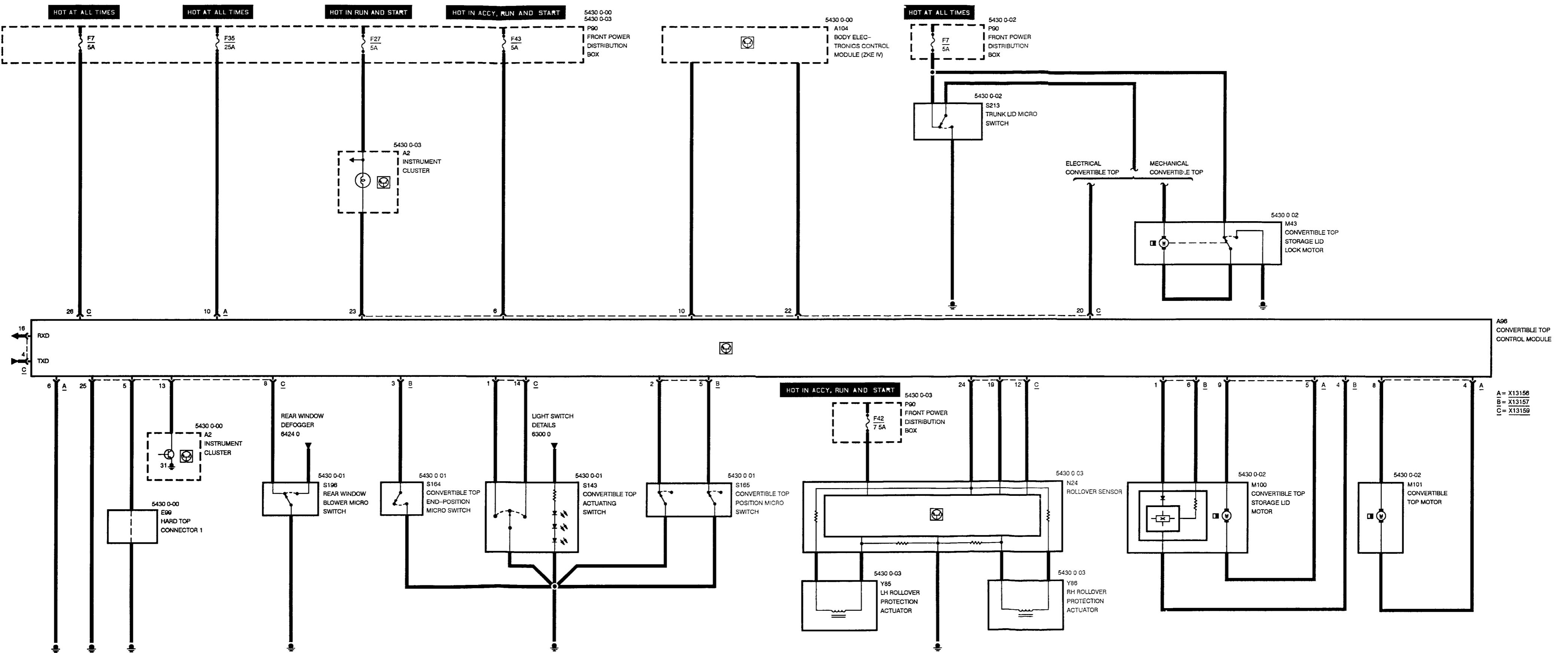


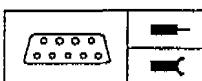
- 5410.1-02 -

12/94 ————— **5430.0** —————

12/94 ————— 5430.0 ————— 1994 12/94 ————— 5430 0 ————— 1994 12/94 ————— 5430 0 ————— 1994

12/94 ————— 5430.0 ————— 1994 12/94 ————— 5430 0 ————— 1994 12/94 ————— 5430 0 ————— 1994





Pin Assignments

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

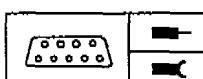
X13156

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3		Not used	
4	E/A	Control signal	Convertible top motor
5	E/A	Control signal	Convertible top storage lid motor
6	M	Ground	Ground
7		Not used	
8	E/A	Control signal	Convertible top motor
9	E/A	Control signal	Convertible top storage lid motor
10	E	Plus supply 12V	Front power distribution box

X13157

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

E = Input, A = Output, M = Ground



Pin Assignments

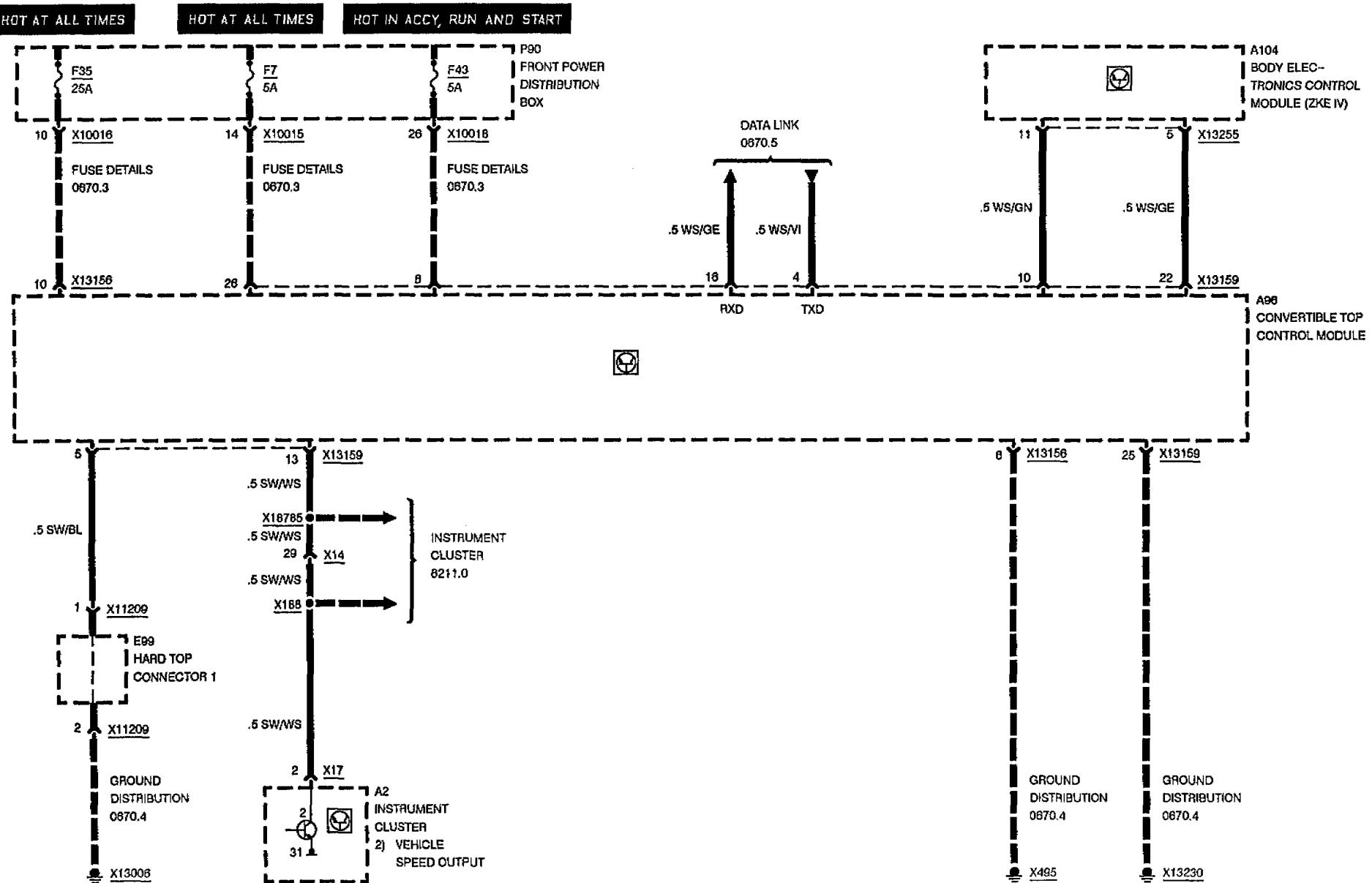
X13159

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

E = Input, A = Output, M = Ground



5430.0



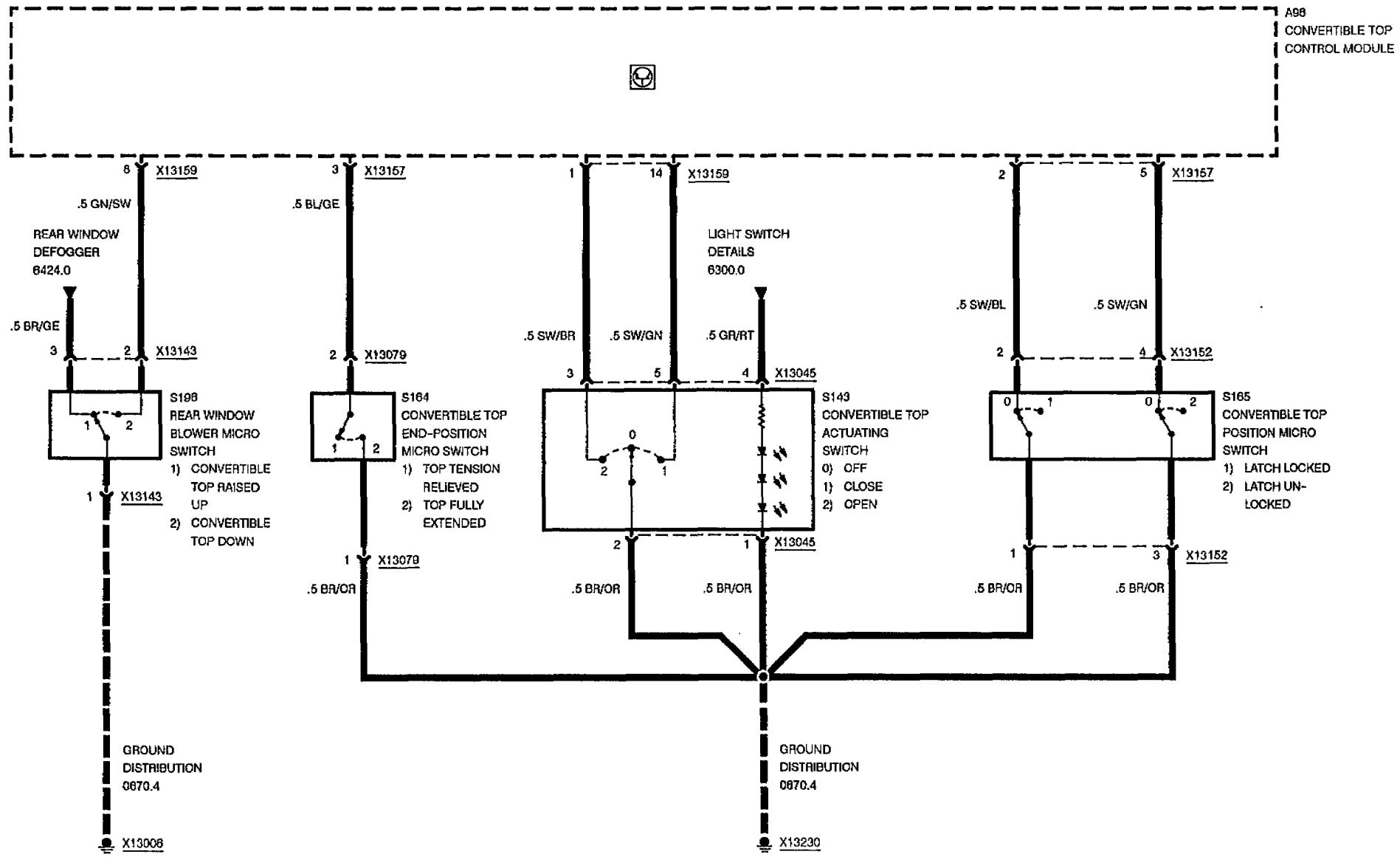


ELECTRO-MECHANICAL CONVERTIBLE TOP

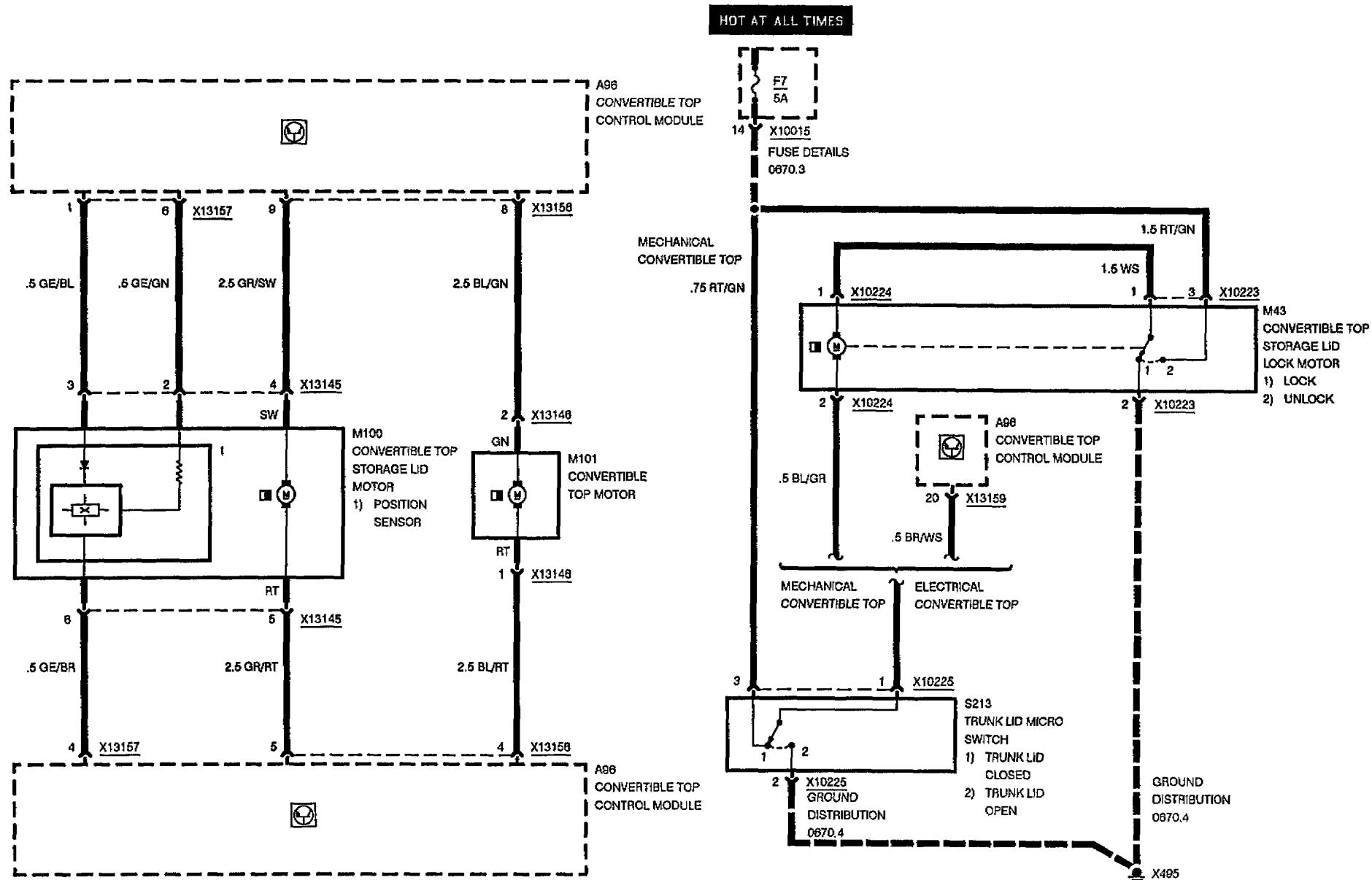
12/94

5430.0-01

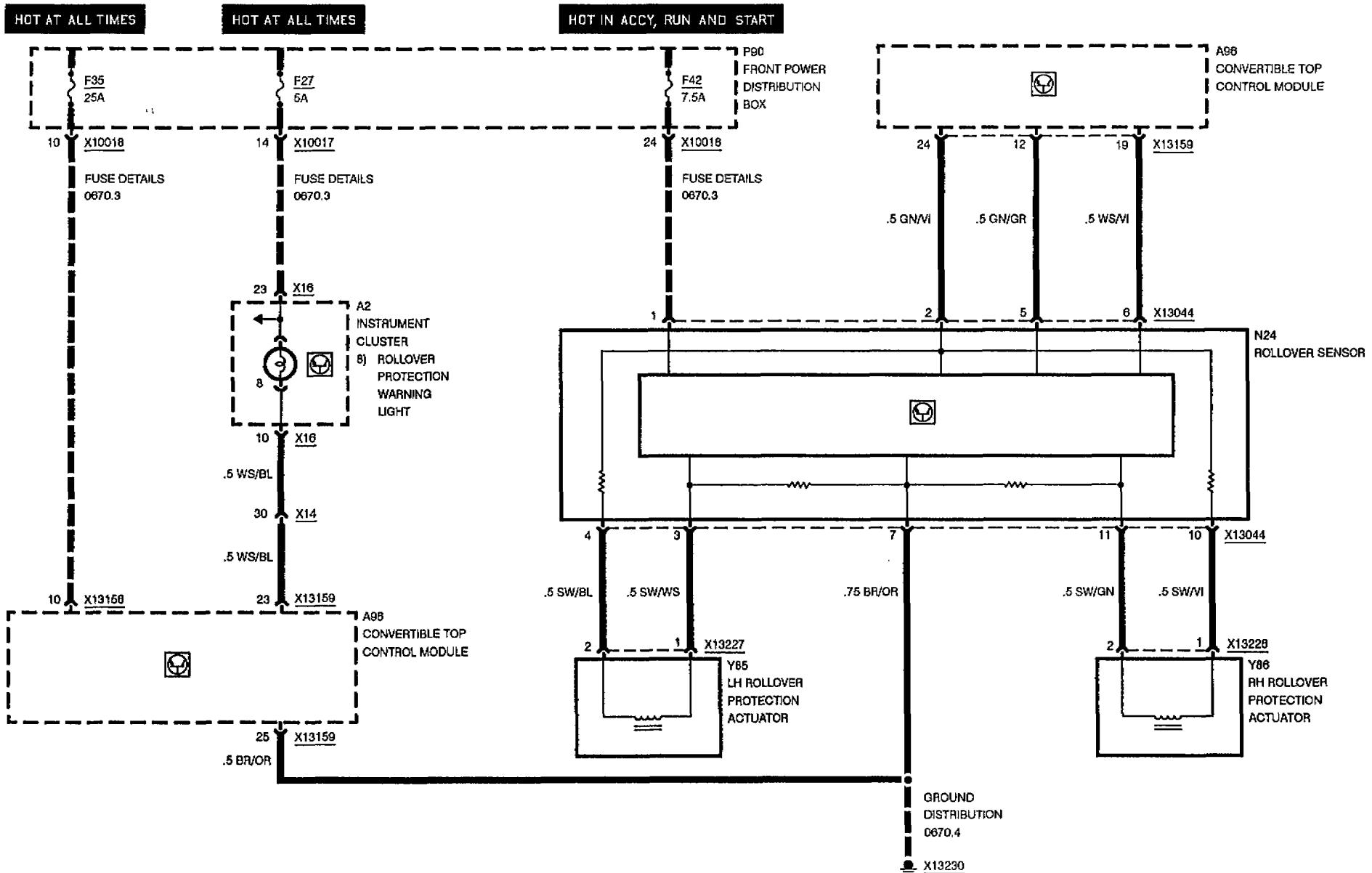
1994



ELECTRO-MECHANICAL CONVERTIBLE TOP

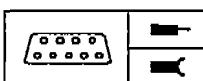


ELECTRO-MECHANICAL CONVERTIBLE TOP





— 5430.0-04 —



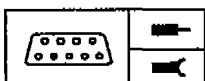
Pin Assignments

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

X13258

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

E = Input, A = Output, M = Ground



Pin Assignments

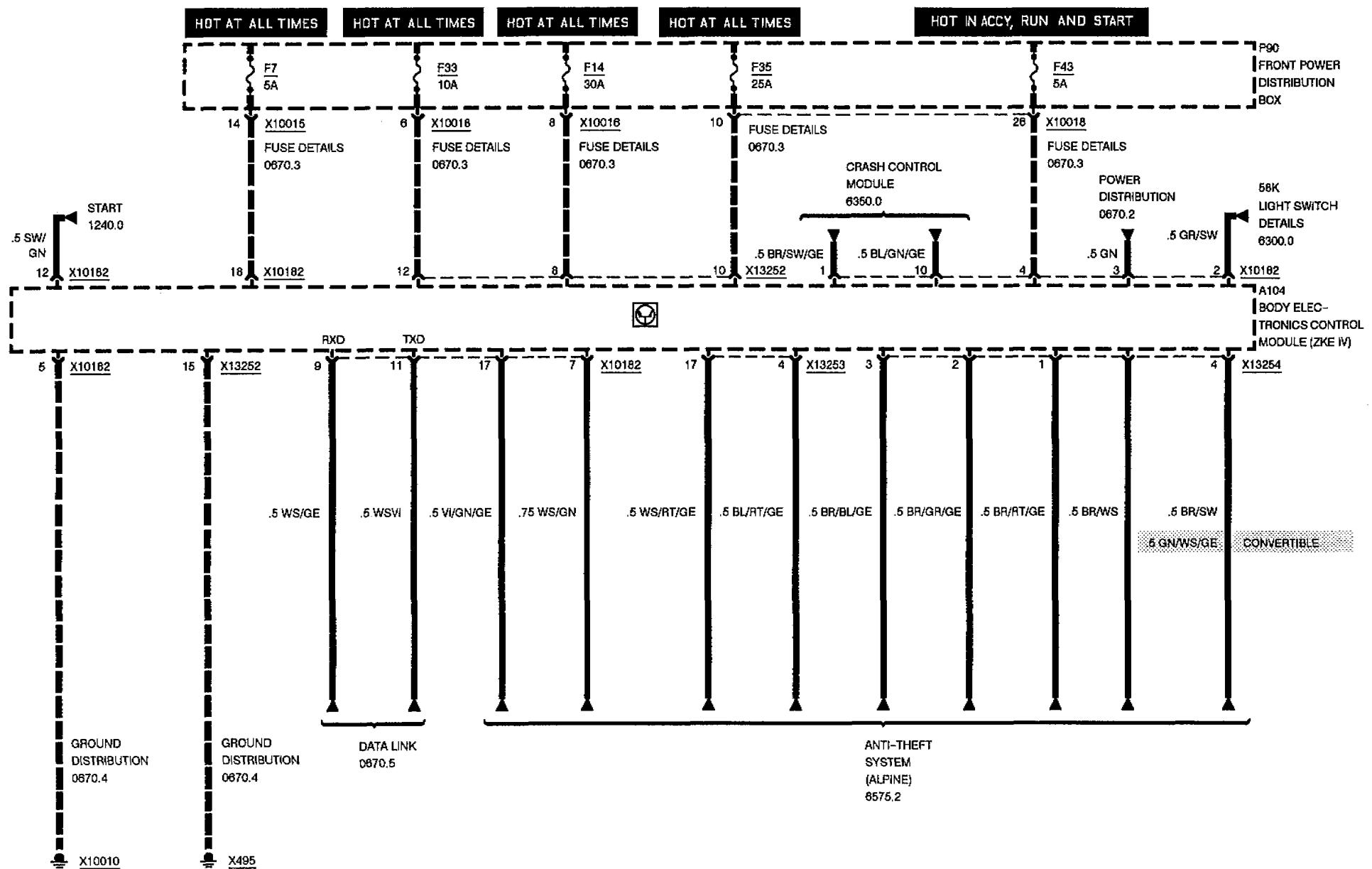
Pin	Type	Description/Function	Connection
12	E	DATA-signal	Central body electronic module
13	E/A	DATA-signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

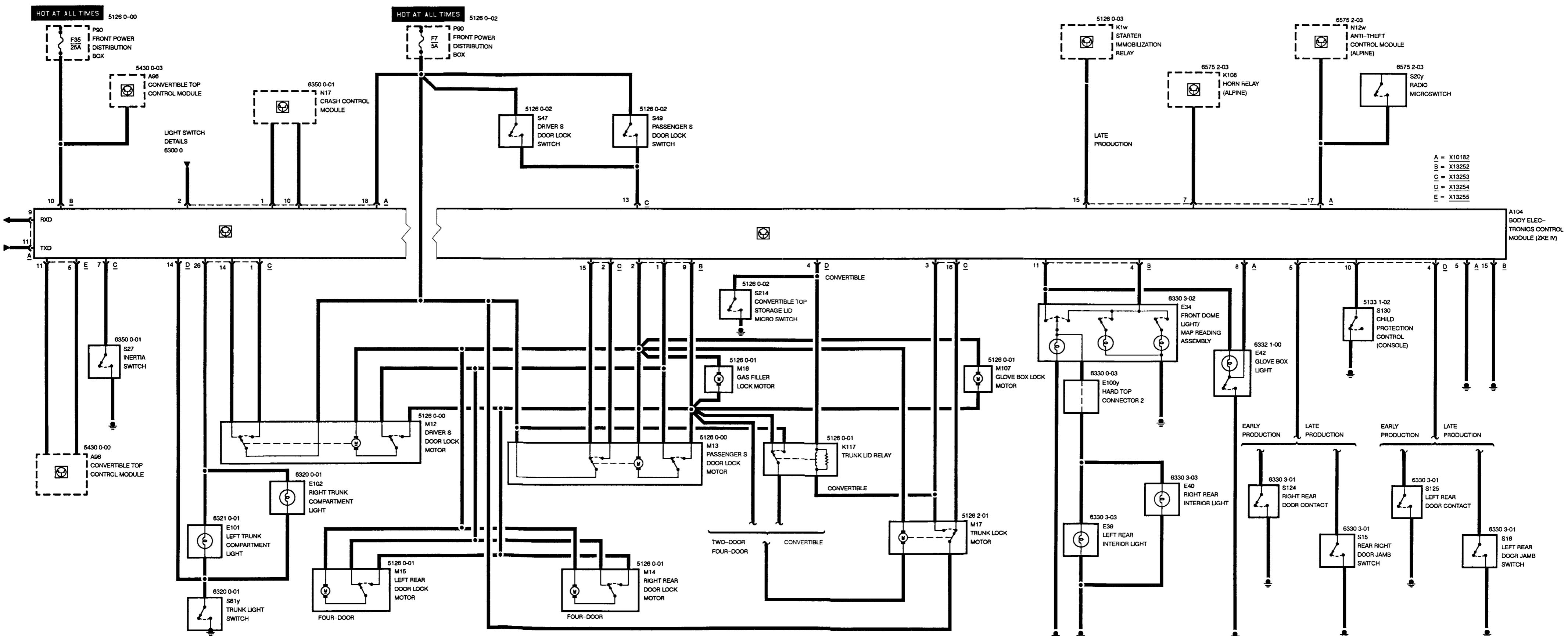
E = Input, A = Output, M = Ground

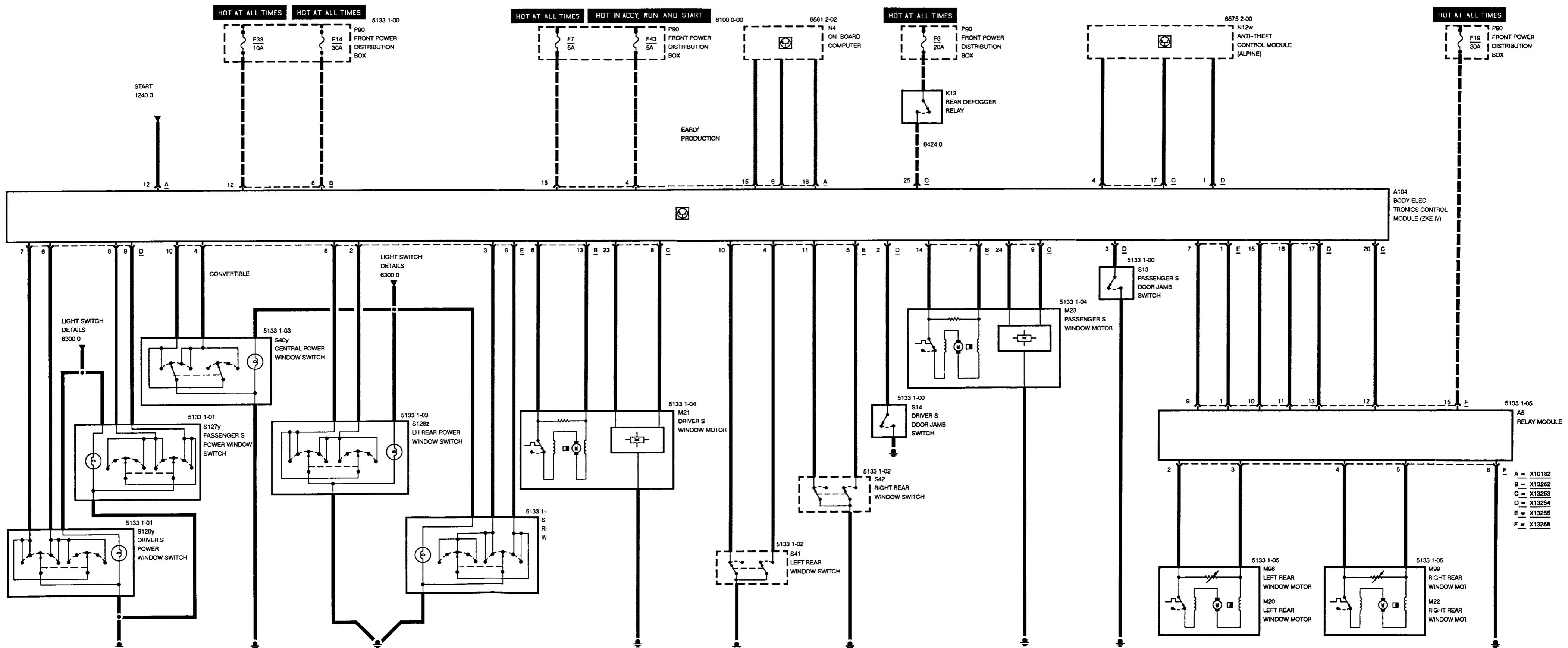


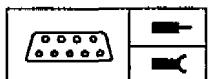
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6100.0









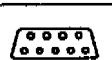
Pin Assignments

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

X10182

Pin	Type	Description/Function	Connection
1	E	Crash signal	Crash control unit
2	E	Light signal	Light switch
3		Not used	
4	E	Power supply	Front power distribution box
5	M	Ground	Ground
6	A	Drive away protection	Board computer
7	A	Alpine horn signal	Alpine horn relay
8	E	Glove box signal	Glove box light
9	A	Diagnosis RxD-signal	Data link connector
10	E	Crash signal	Crash control unit
11	E/A	Diagnosis TxD-signal	Data link connector
12	E	Starter-signal, terminal 30h	Starter
13		Not used	
14		Not used	
15	A	Drive away protection	Starter immobilization relay (late production)
15	A	Drive away protection	On board computer (early production)
16	A	Data signal	On board computer
17	E	Hood/radio signal	Hood/radio micro switches
18	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground



Pin Assignments

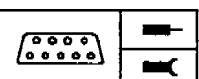
X13252

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

X13253

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

E = Input, A = Output, M = Ground

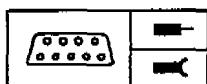
**Pin Assignments**

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

X13254

Pin	Type	Description/Function	Connection
1	E	Drive-away protection	Anti-theft control module
2	E	Door-signal	Door jamb switch driver's door
3	E	Door-signal	Door jamb switch passenger's door
4	E	Convertible: trunk lid signal Four-door: door-signal	Trunk lid switch/trunk lid relay Door jamb switch left rear
5	E	Door signal	Door jamb switch right rear
6	E	OPEN-signal	Power window switch driver's door
7	E	CLOSE-signal	Power window switch driver's door
8	E	OPEN-signal	Power window switch passenger's door
9	E	CLOSE-signal	Power window switch passenger's door
10	E	Four-door: child protection signal	Child protection switch
11		Not used	

E = Input, A = Output, M = Ground



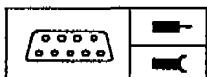
Pin Assignments

Pin	Type	Description/Function	Connection
12		Not used	
13		Not used	
14	E	Trunk light signal	Trunk light switch
15	A	DATA - signal	Relay module
16	A	DATA - signal	Relay module
17	A	DATA - signal	Relay module
18		Not used	
19	A	Four-door: CORRECT - signal	Comfort relay
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13255

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

E = Input, A = Output, M = Ground



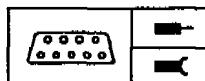
Pin Assignments

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

X13258

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

E = Input, A = Output, M = Ground

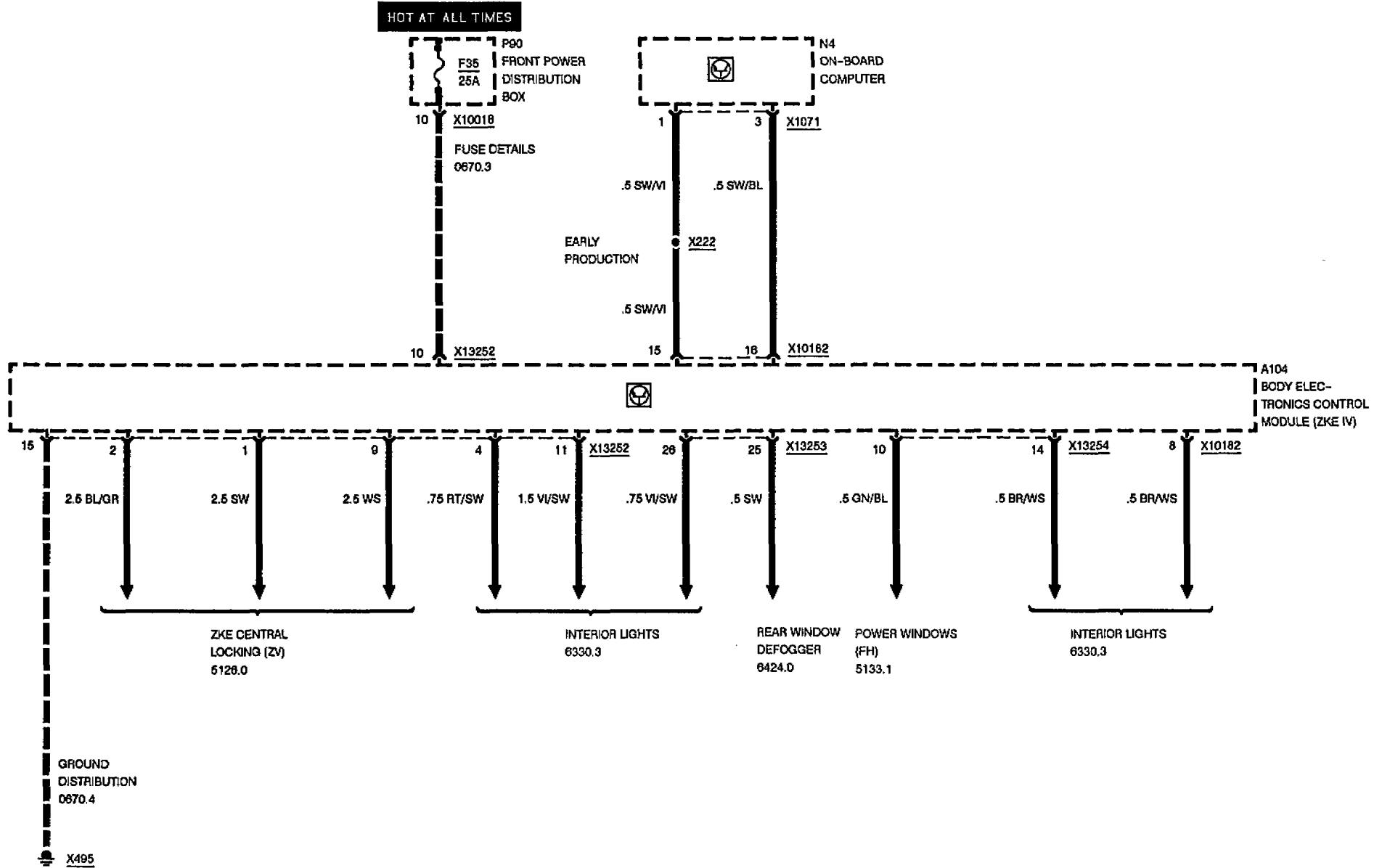


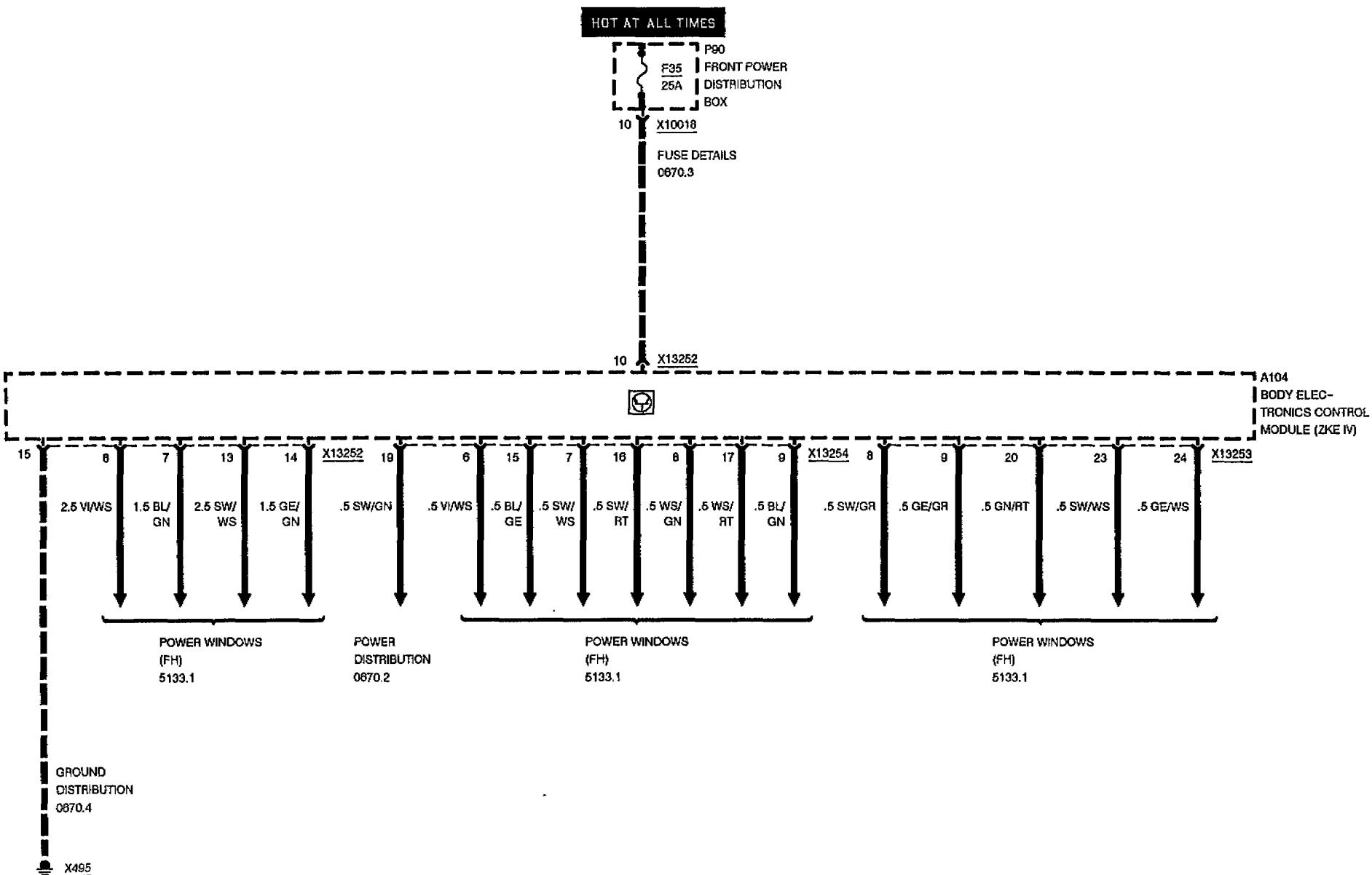
Pin Assignments

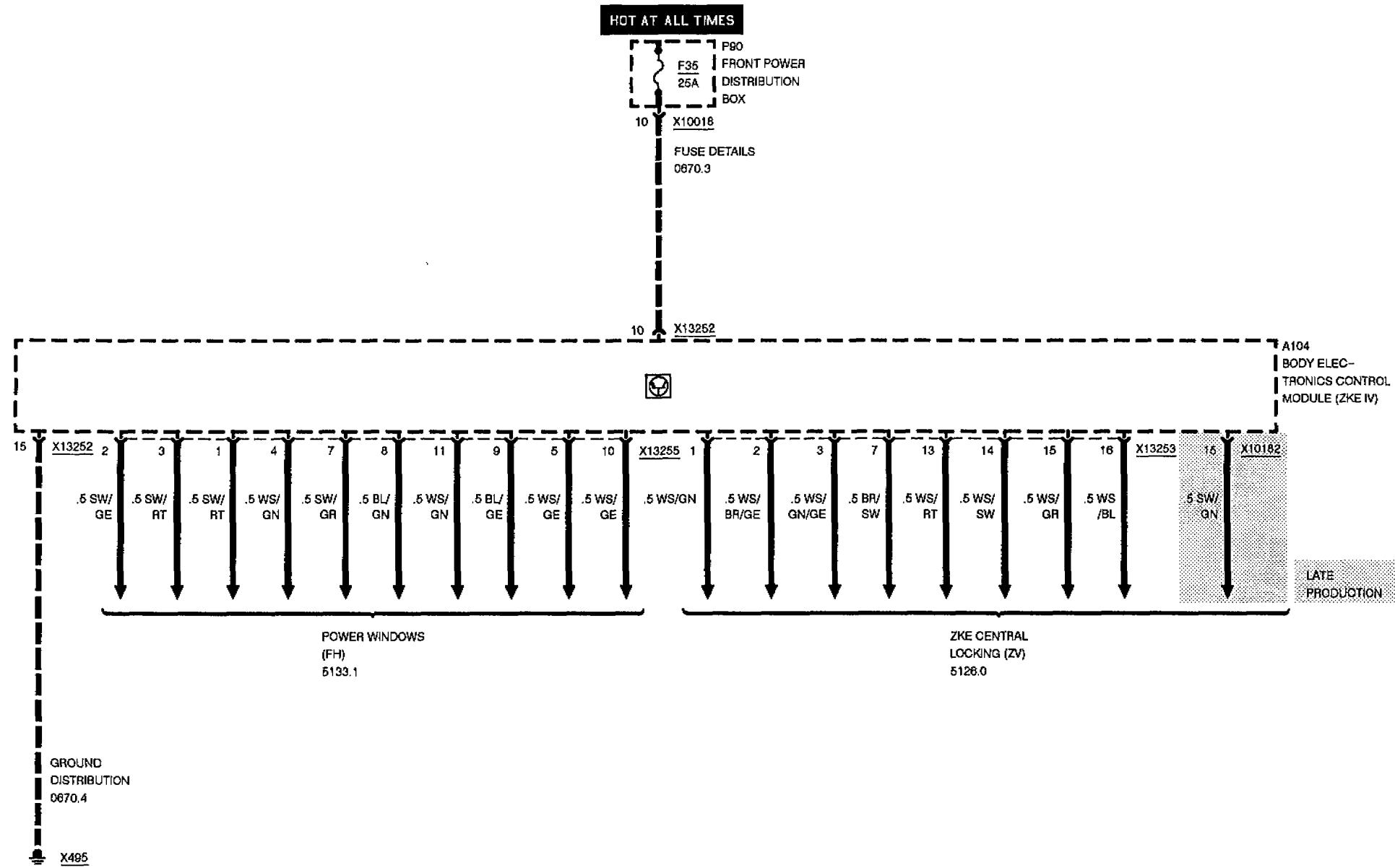
Pin	Type	Description/Function	Connection
12	E	DATA-signal	Central body electronic module
13	E/A	DATA-signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

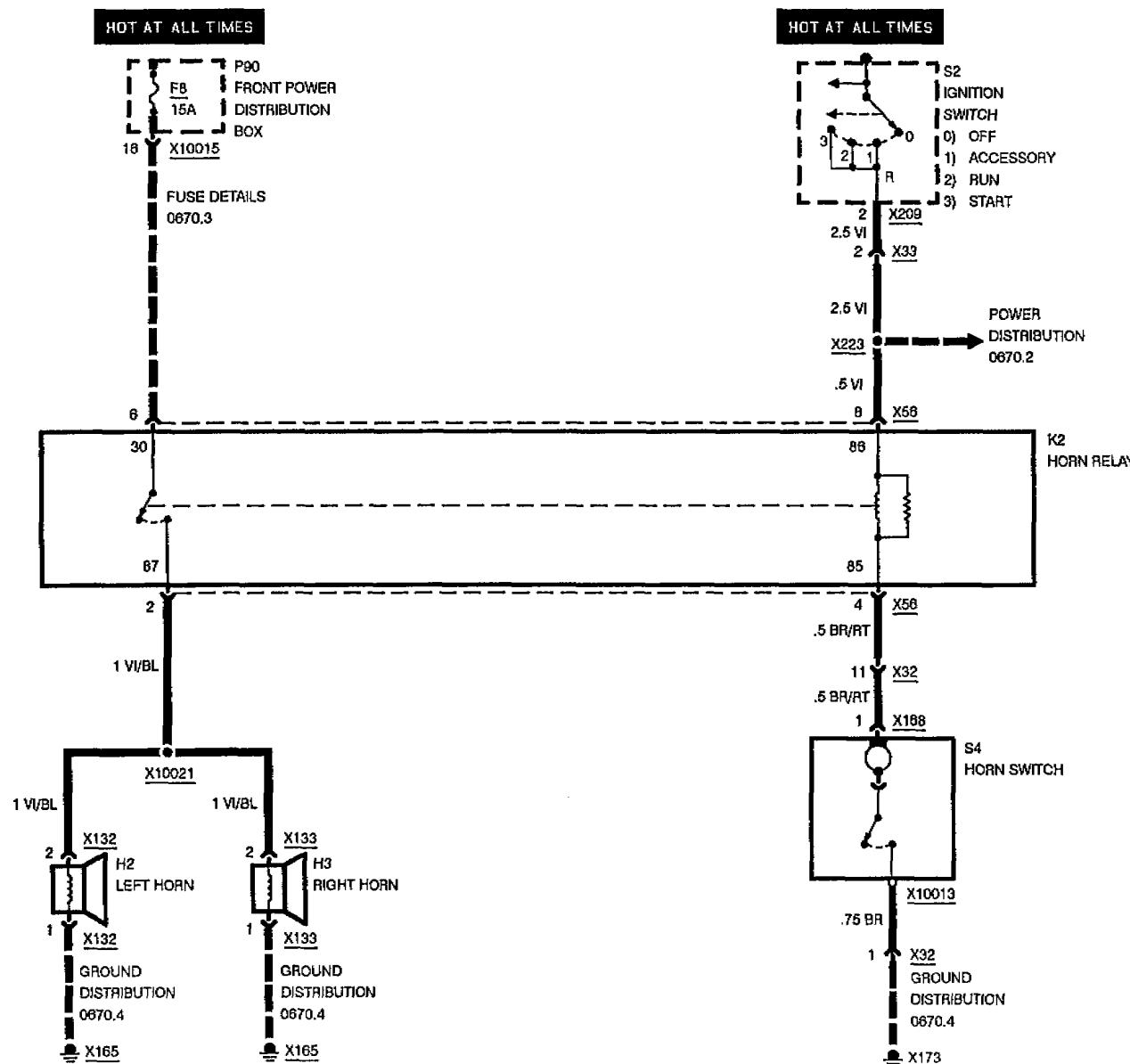
E = Input, A = Output, M = Ground

CENTRAL BODY ELECTRONICS (ZKE IV)











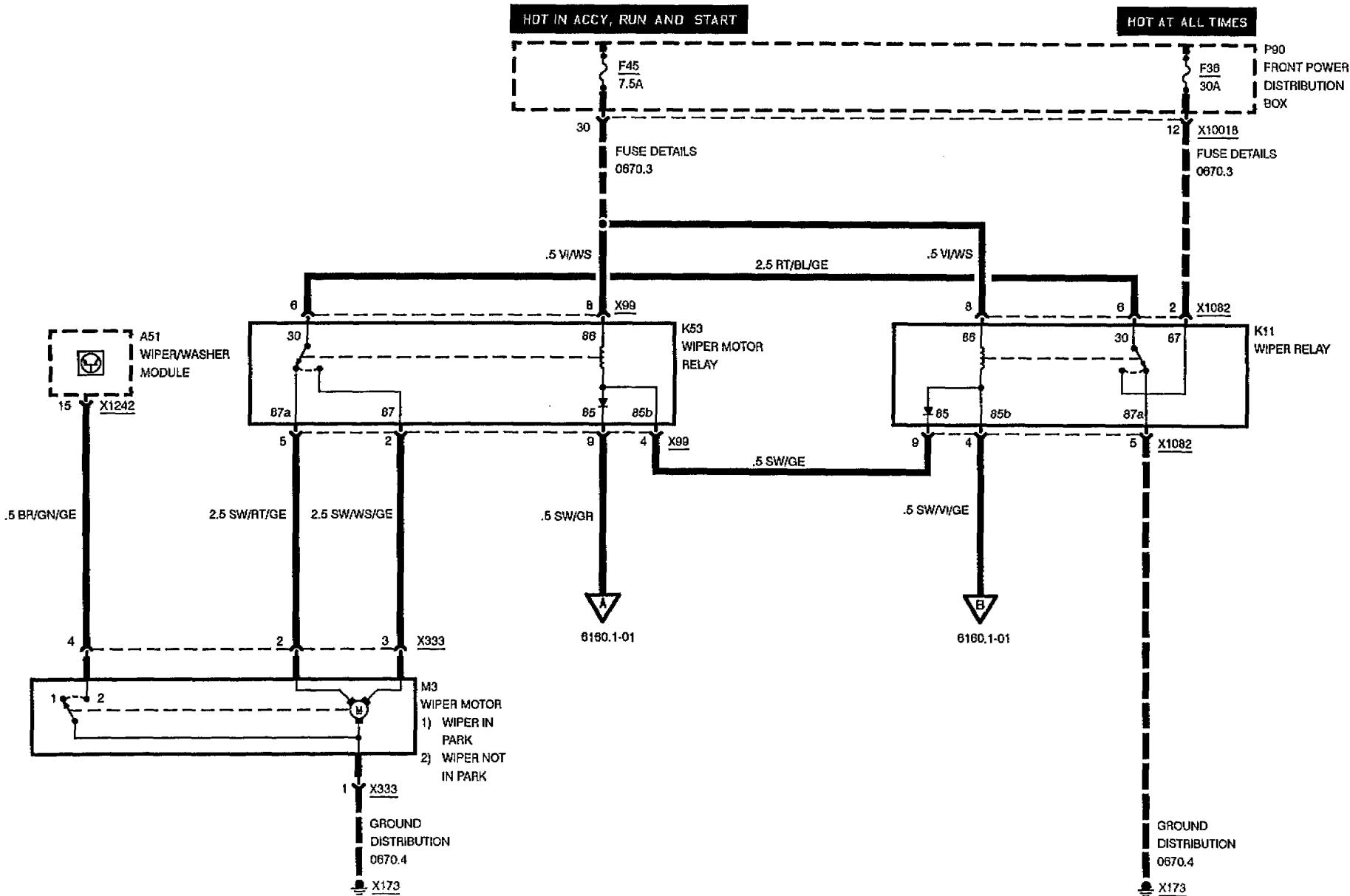
— 6160.1 —



WIPER/WASHER MODULE (WWM)



WASHER, INTENSIVE WASHER, HEADLIGHT WASHER - HIGH



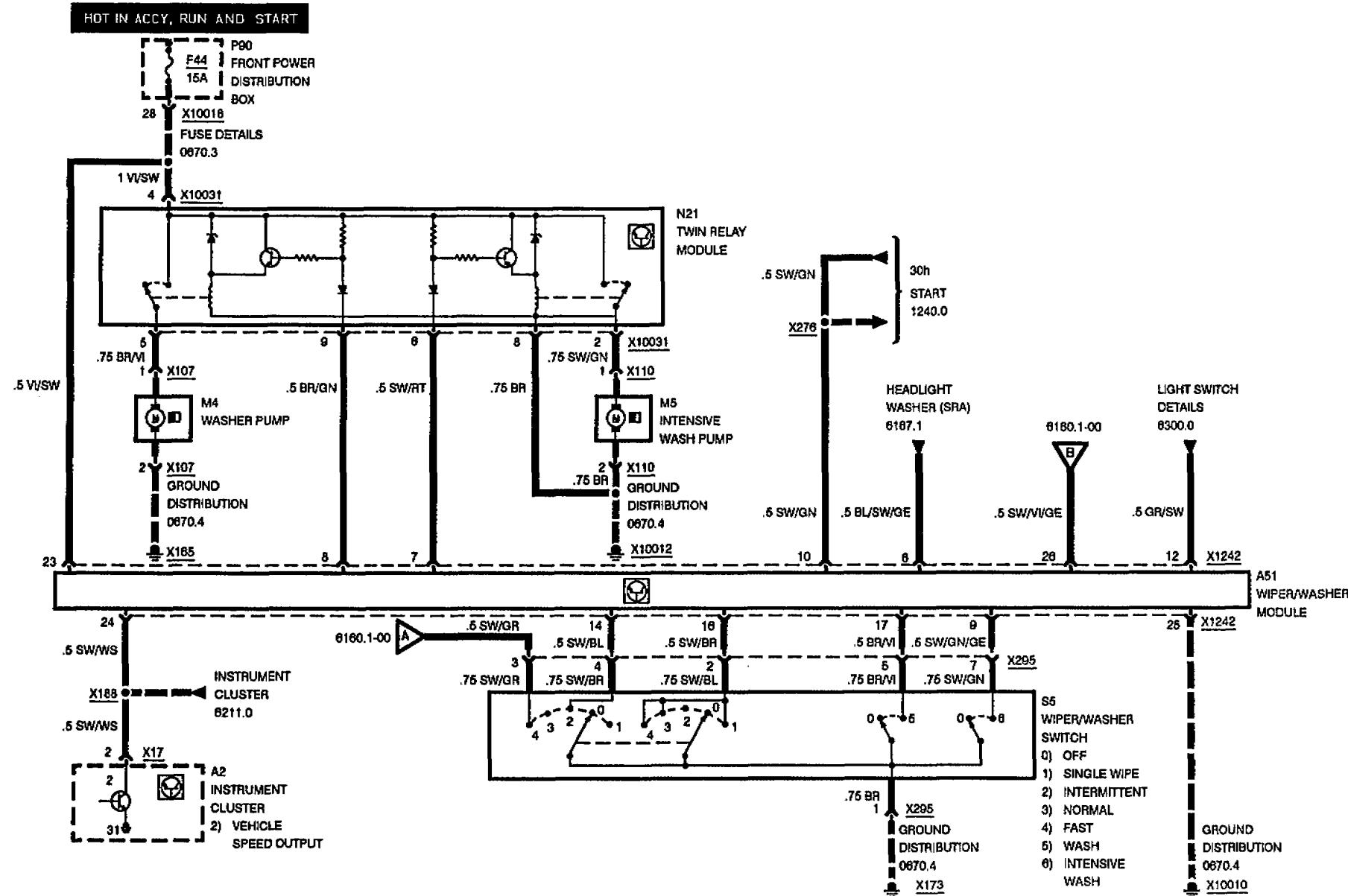
12/94

6160.1-00

1994

WIPER/WASHER MODULE (WWM)

WASHER, INTENSIVE WASHER, HEADLIGHT WASHER - HIGH





WIPER/WASHER MODULE (WWM)

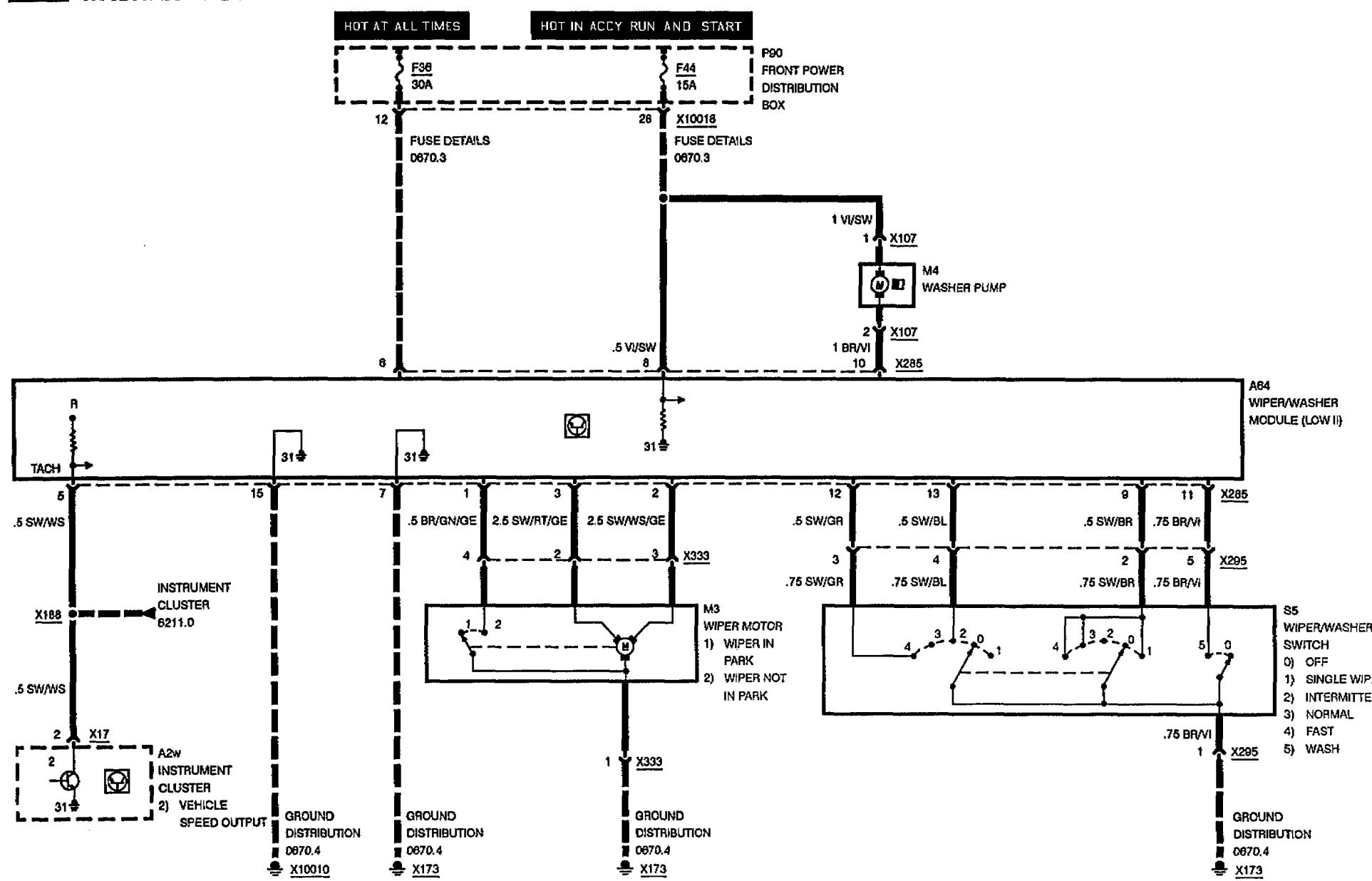
WASHER - LOW

USA

12/94

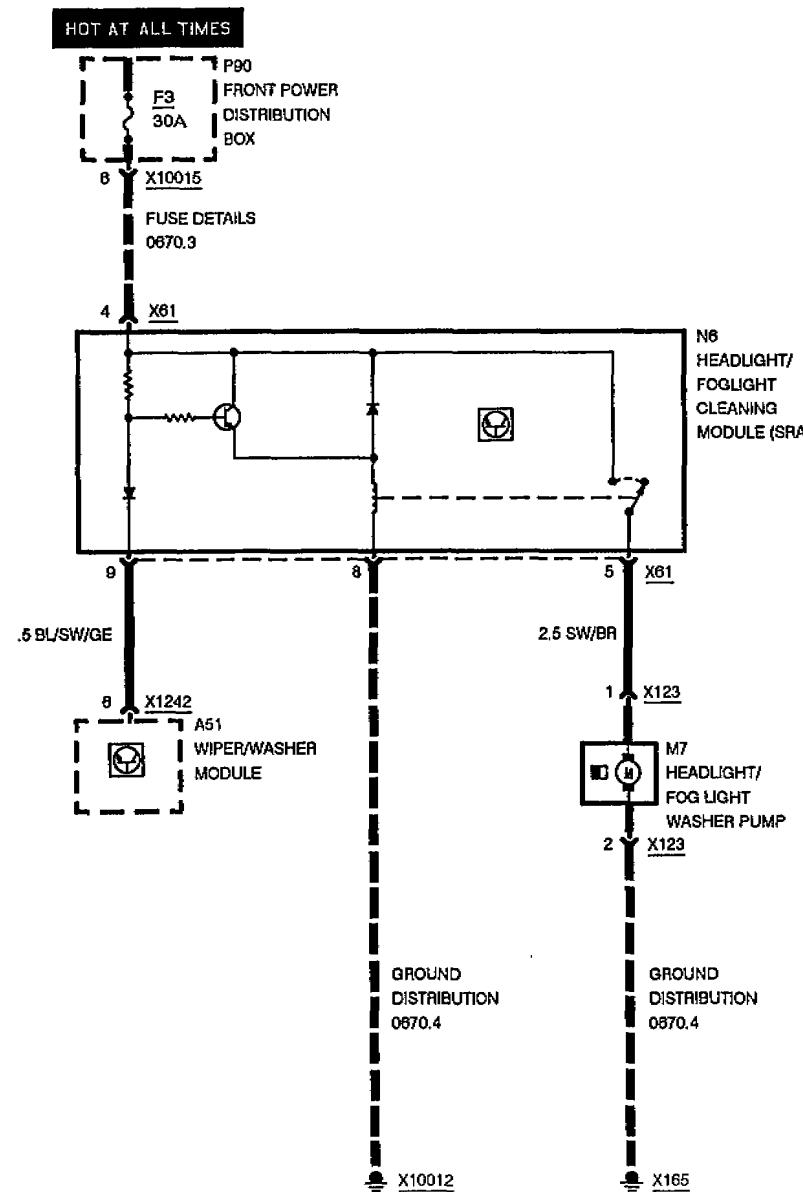
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1994





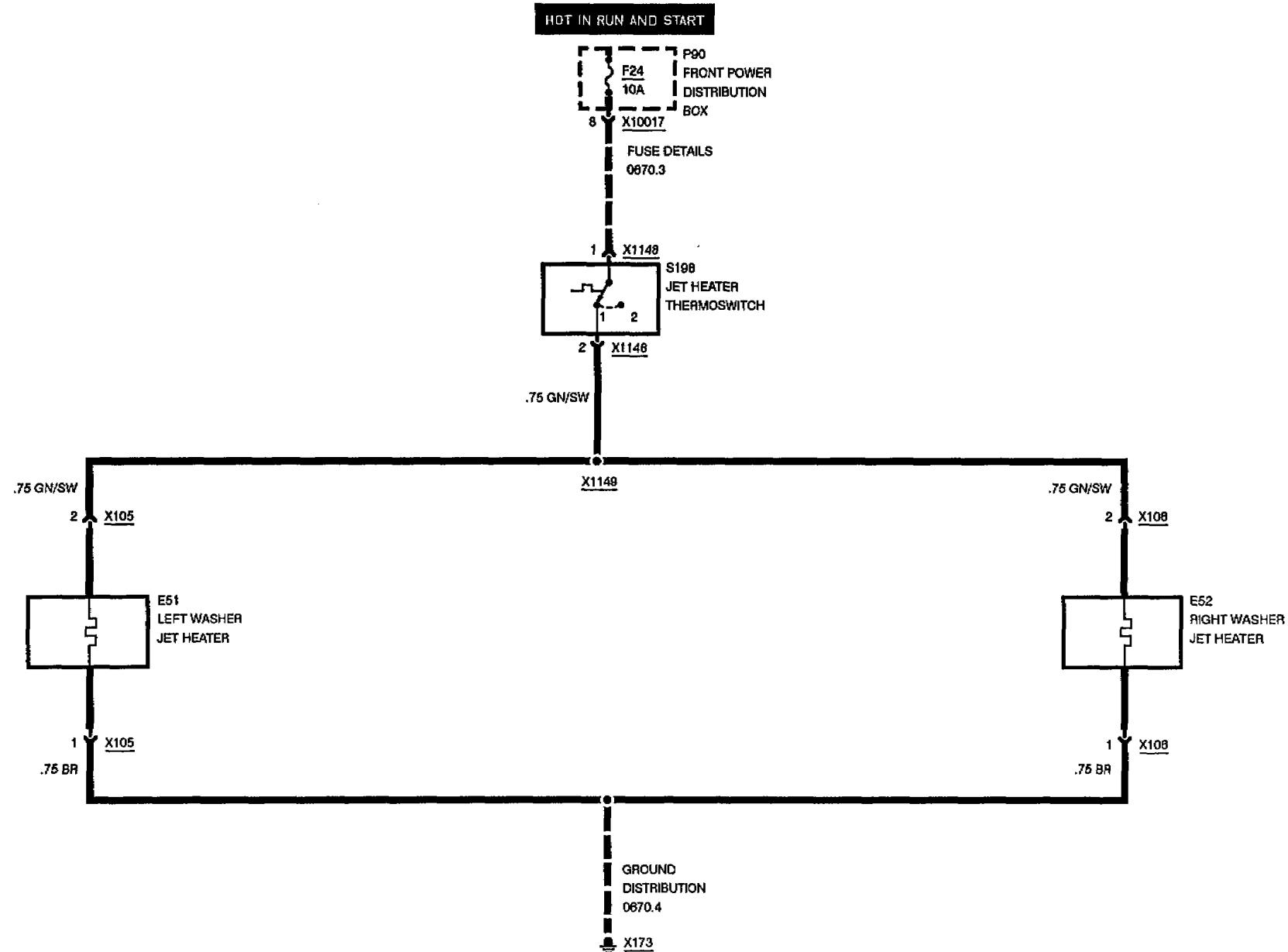
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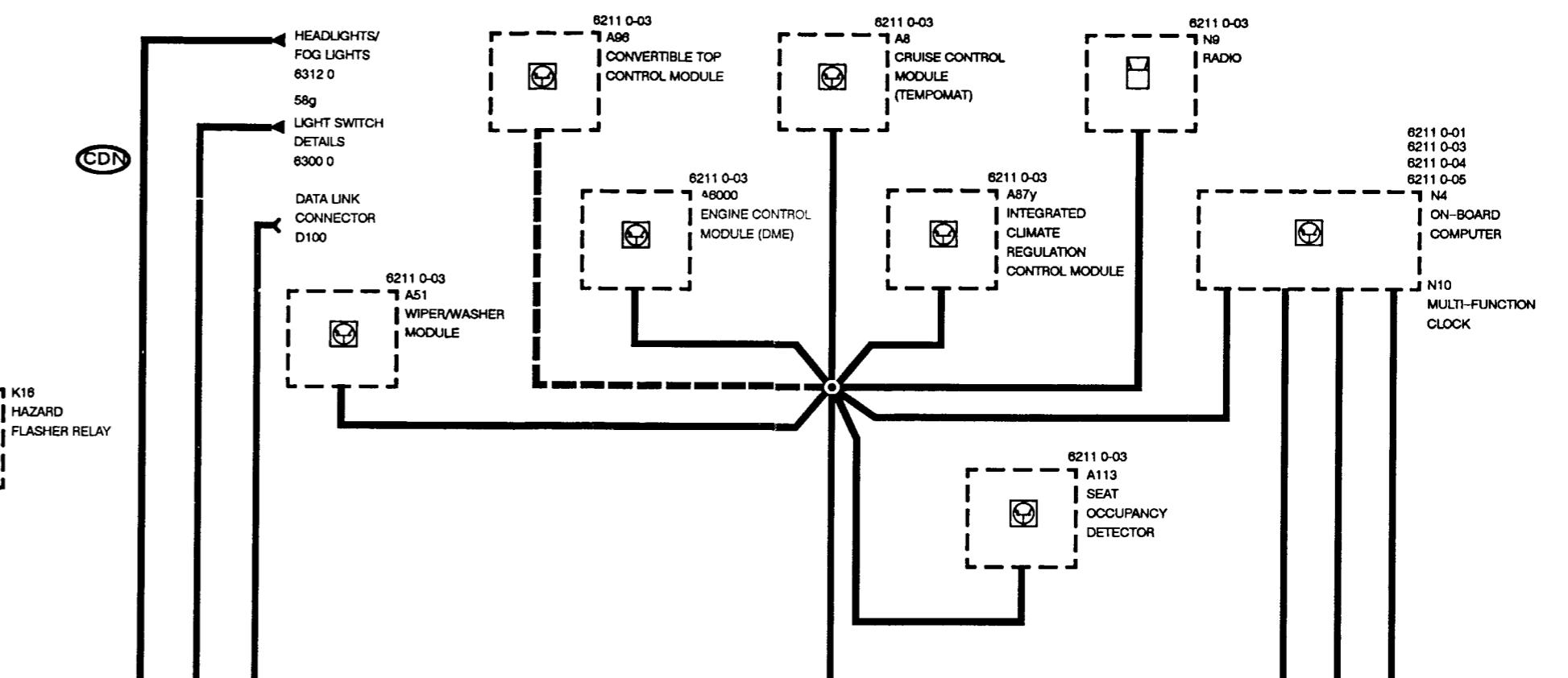
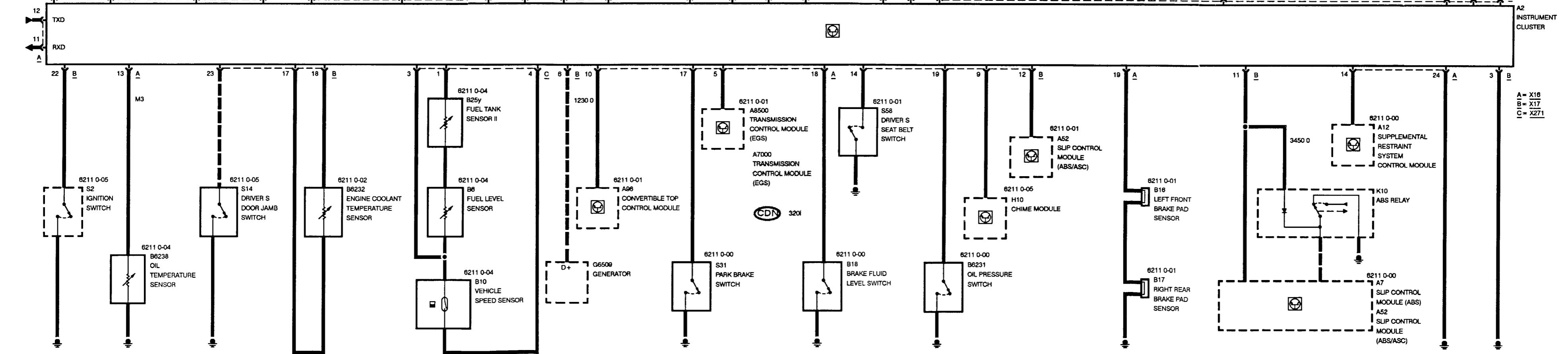
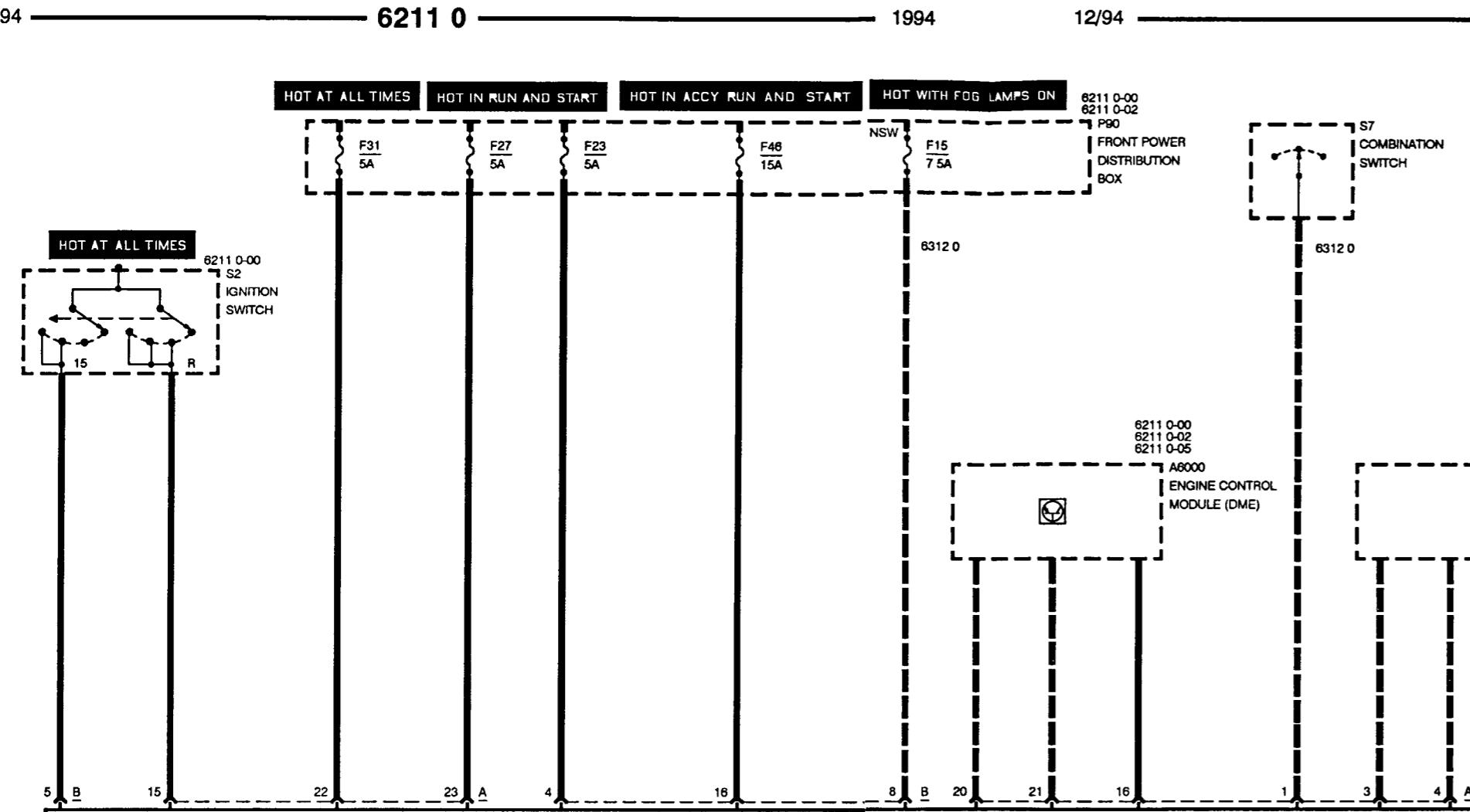


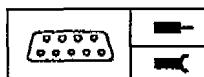


6169.0

WINDSHIELD WASHER JET HEATERS







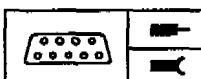
Pin Assignments

A = X16	26 Pins, white
B = X17	26 Pins, blue
C = X271	12 Pins, black

X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instrument illumination power	Dimmer
3	E	Right turn signal indicator control	Hazard flasher relay
4	E	Left turn signal indicator control	Hazard flasher relay
5	E	Warning lamp for EGS fault (information signal transmission oil temperature)	Transmission control module (EGS)
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10	E	Convertible: Roll over signal	Convertible top control module
11	A	RxD diagnostic data link	Data link connector
12	E/A	TxD diagnostic data link	Data link connector
13	E	M3: Oil temperature	Engine oil temperature sensor
14	E	Airbag warning lamp (SRS) control	Supplemental restraint system control module
15	E	Voltage supply, terminal R for airbag warning lamp (SRS)	Ignition switch, terminal R
16	E	"Check engine" indicator control	Engine control module (DME)
17	E	Park brake warning lamp control	Park brake switch
18	E	Brake fluid warning lamp control	Brake fluid level switch
19	E	Brake pad wear warning lamp control	Brake pad sensors
20	E	Crankshaft RPM speed signal TD	Engine control module (DME)
21	E	Fuel consumption signal + KVA	Engine control module (DME)
22	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
23	E	Voltage supply, terminal 15 for indicator and warning lamps	Front power distribution box, fuse 27

E = Input, A = Output, M = Ground



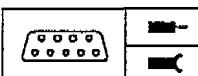
Pin Assignments

Pin	Type	Description/Function	Connection
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground
25		Not used	
26		Not used	

X17

Pin	Type	Description/Function	Connection
1	E	Trailer turn signal indicator control	Hazard flasher relay
2	A	Vehicle speed signal	Various control modules
3	M	Ground supply, terminal 31 for indicator and warning lamps	Ground
4	E	Voltage supply, terminal 15 for instrument cluster electronics	Front power distribution box, fuse 23
5	E	Voltage supply, terminal 15 for battery charge indicator	Ignition switch, terminal 15
6	E	Ground supply, terminal 61 for battery charge indicator	Generator
7		Not used	
8	E	Voltage supply, fog light indicator control	Front power distribution box, fuse 15
9	A	Sound tone signal	Chime module
10	A	Information signal, fuel tank content	On-board computer/Multifunction clock
11	E	Slip control system warning lamp (ABS) control/ASC+T warning lamp control	Slip control module (ABS)/ASC+T control module
12	E	ASC+T signal	ASC+T control module
13		Not used	
14	E	Seat belt warning lamp control	Driver's seat belt switch
15	E	SIA reset/service interval indicator reset	Data link connector
16	E	Voltage supply, terminal R	Front power distribution box, fuse 46
17	A	Coolant temperature sensor	Coolant temperature sensor
18	E	Coolant temperature sensor	Coolant temperature sensor
19	E	Oil pressure warning lamp control	Oil pressure switch
20		Not used	
21		Not used	

E = Input, A = Output, M = Ground

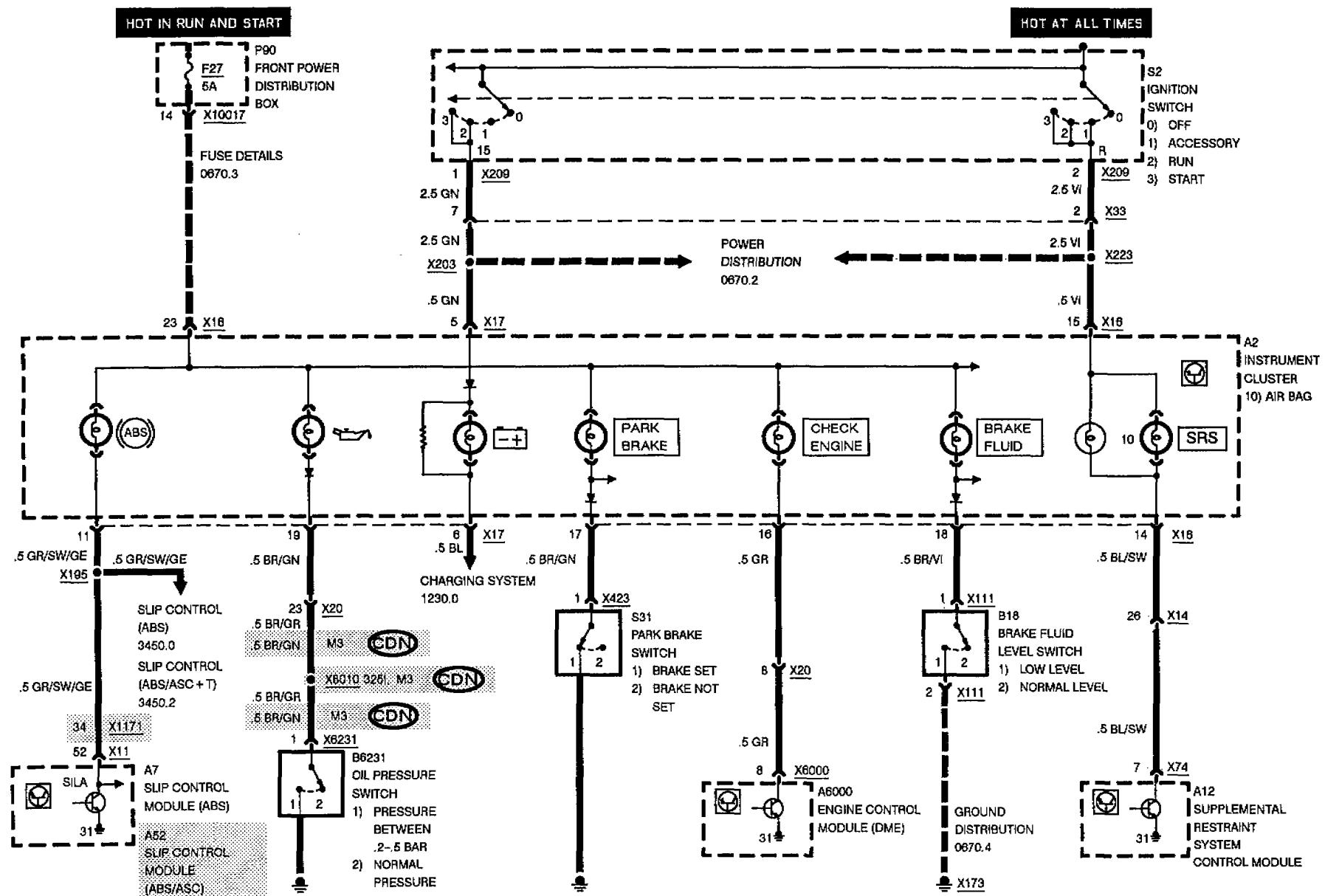


Pin Assignments

Pin	Type	Description/Function	Connection
22	E	Ignition key warning/audible ignition key warning	Ignition switch
23	E	Driver's door open	Driver's door jamb switch
24	A	Dimmer signal/brightness information signal for connected control modules	On-board computer or multi-function clock
25		Not used	
26	E	Central indicator lamp/check-control	On-board computer or multi-function clock

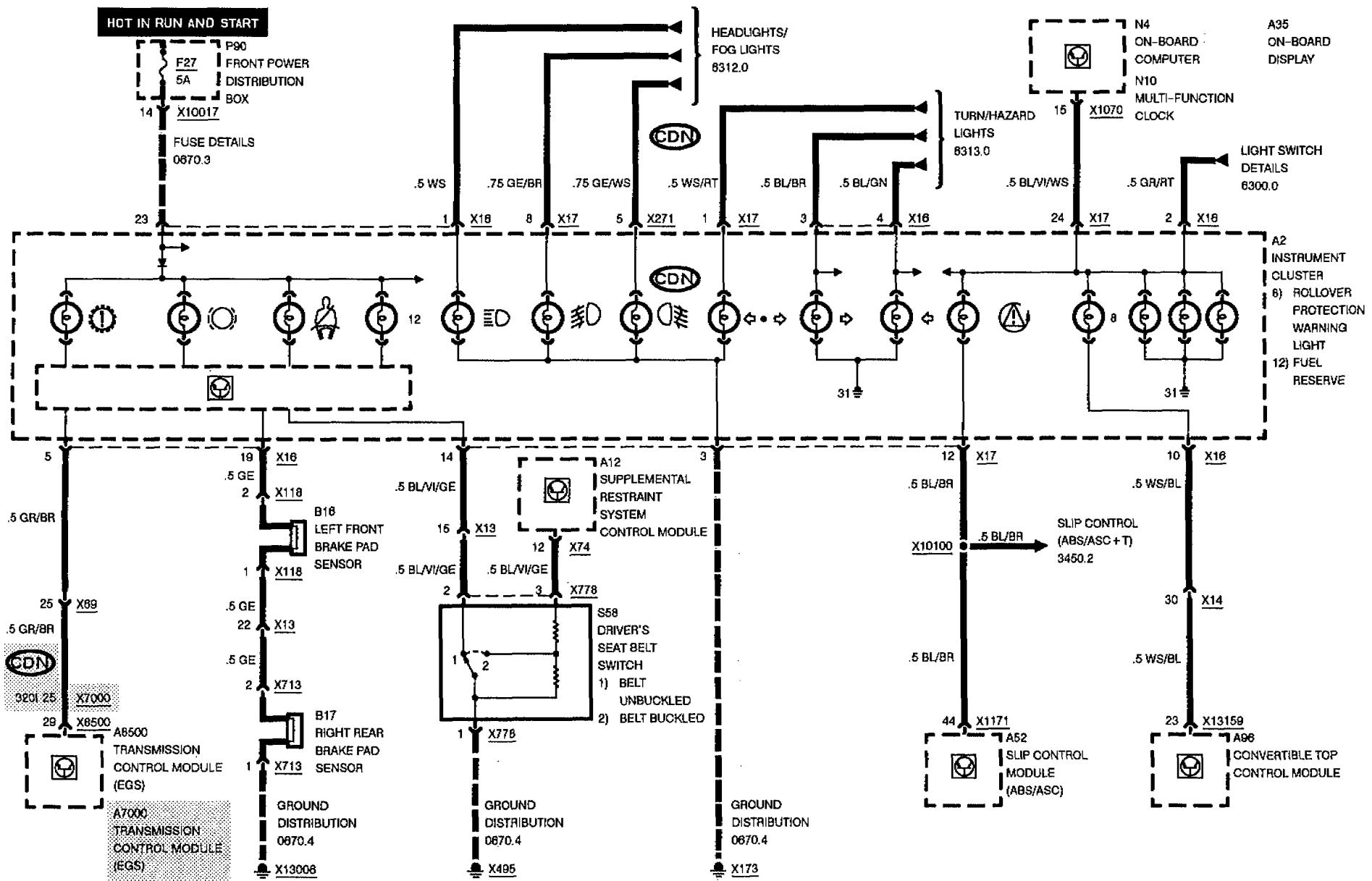
X271

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



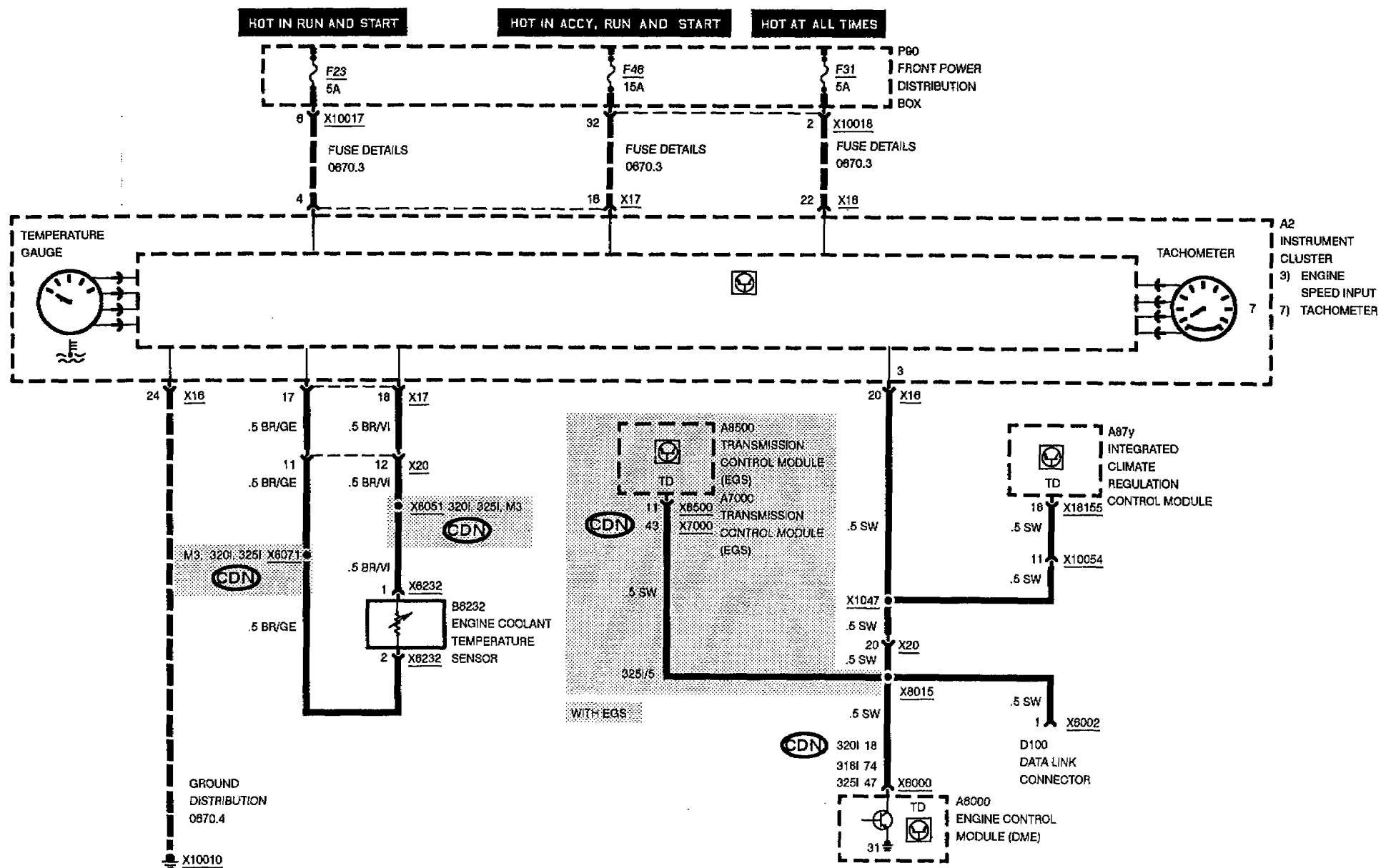
BMW
3

INSTRUMENT CLUSTER
INDICATORS



INSTRUMENT CLUSTER

INDICATORS



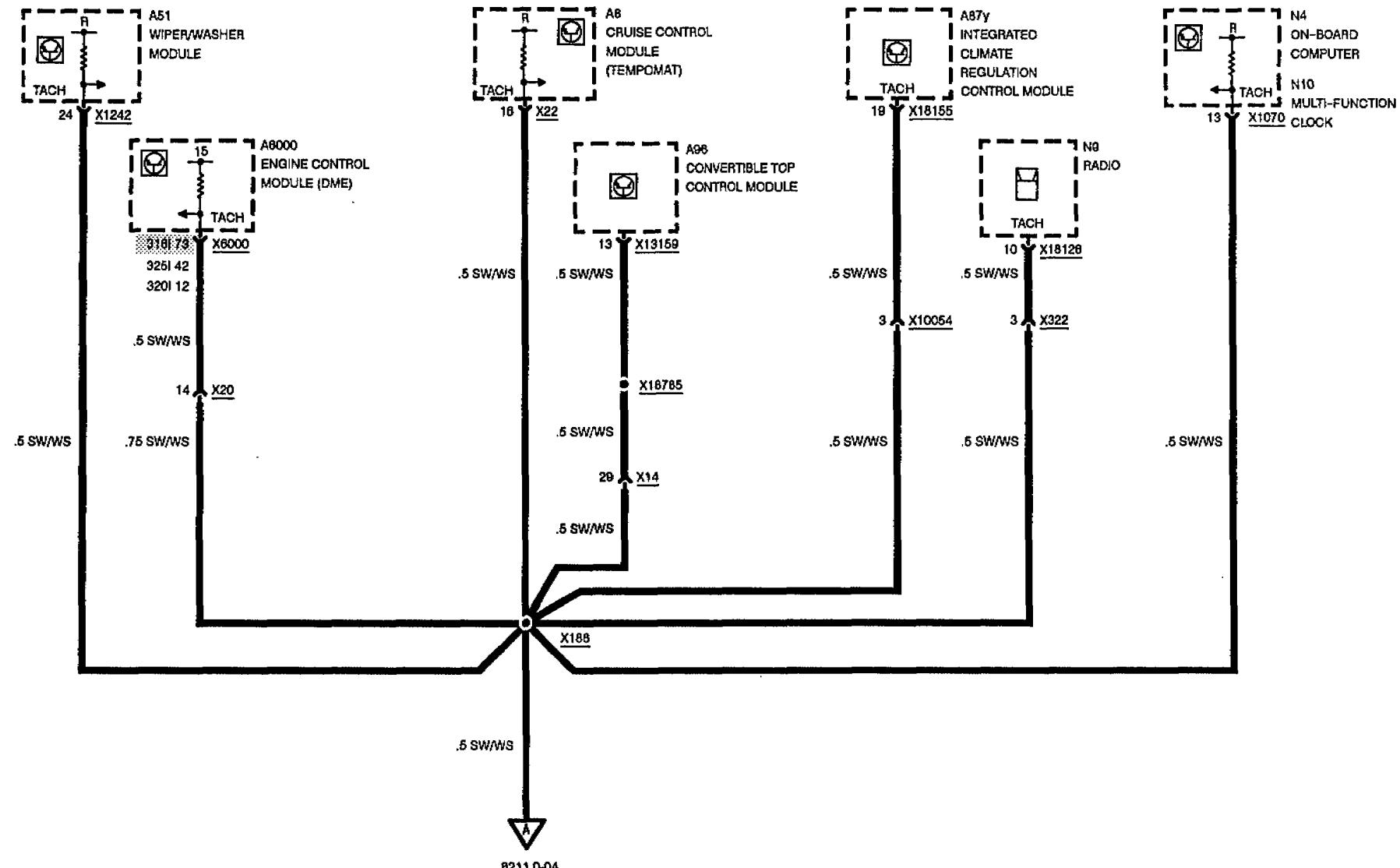


INSTRUMENT CLUSTER SIGNAL-OUTPUT SPEEDOMETER

12/94

6211.0-03

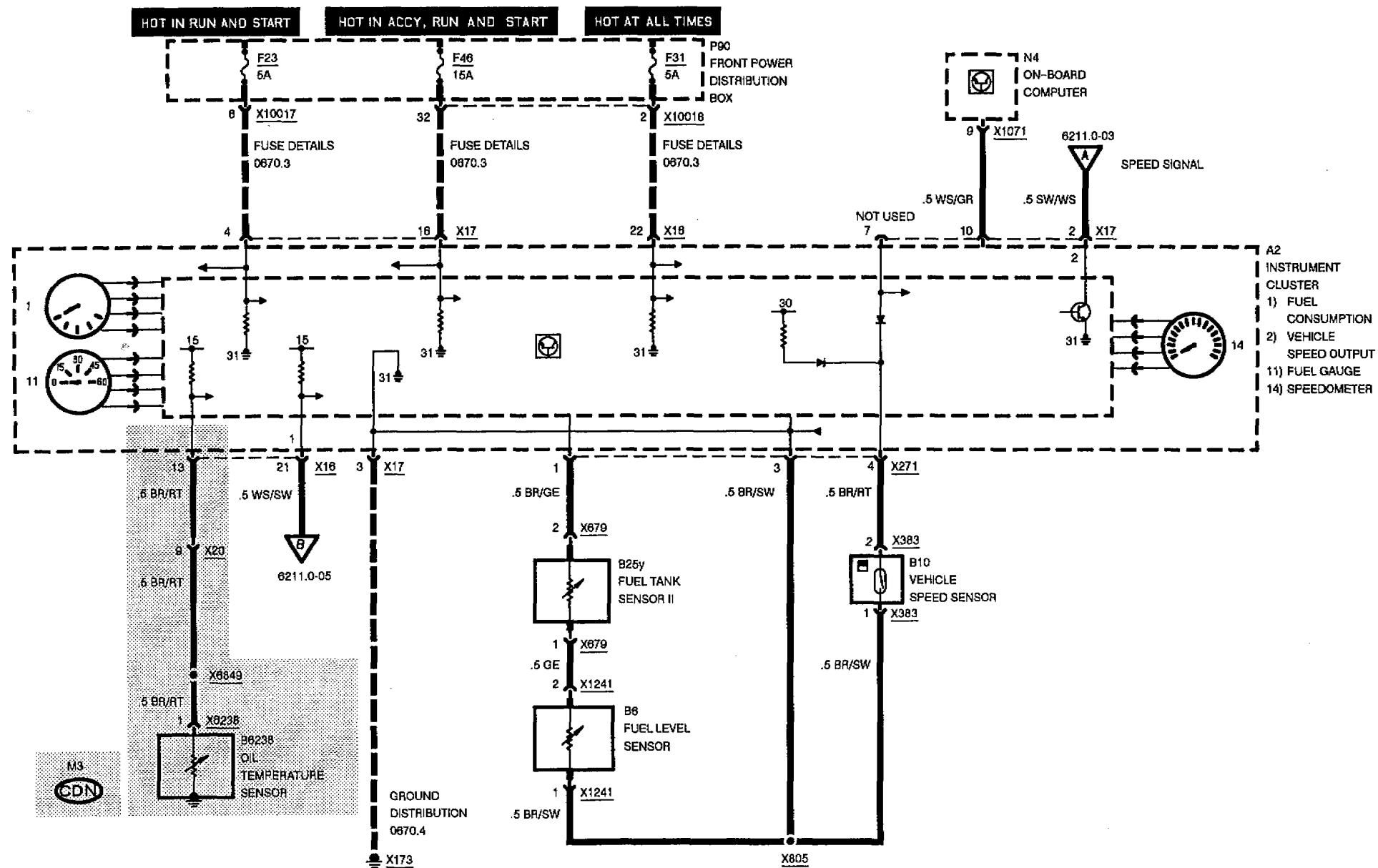
1994





INSTRUMENT CLUSTER INDICATORS

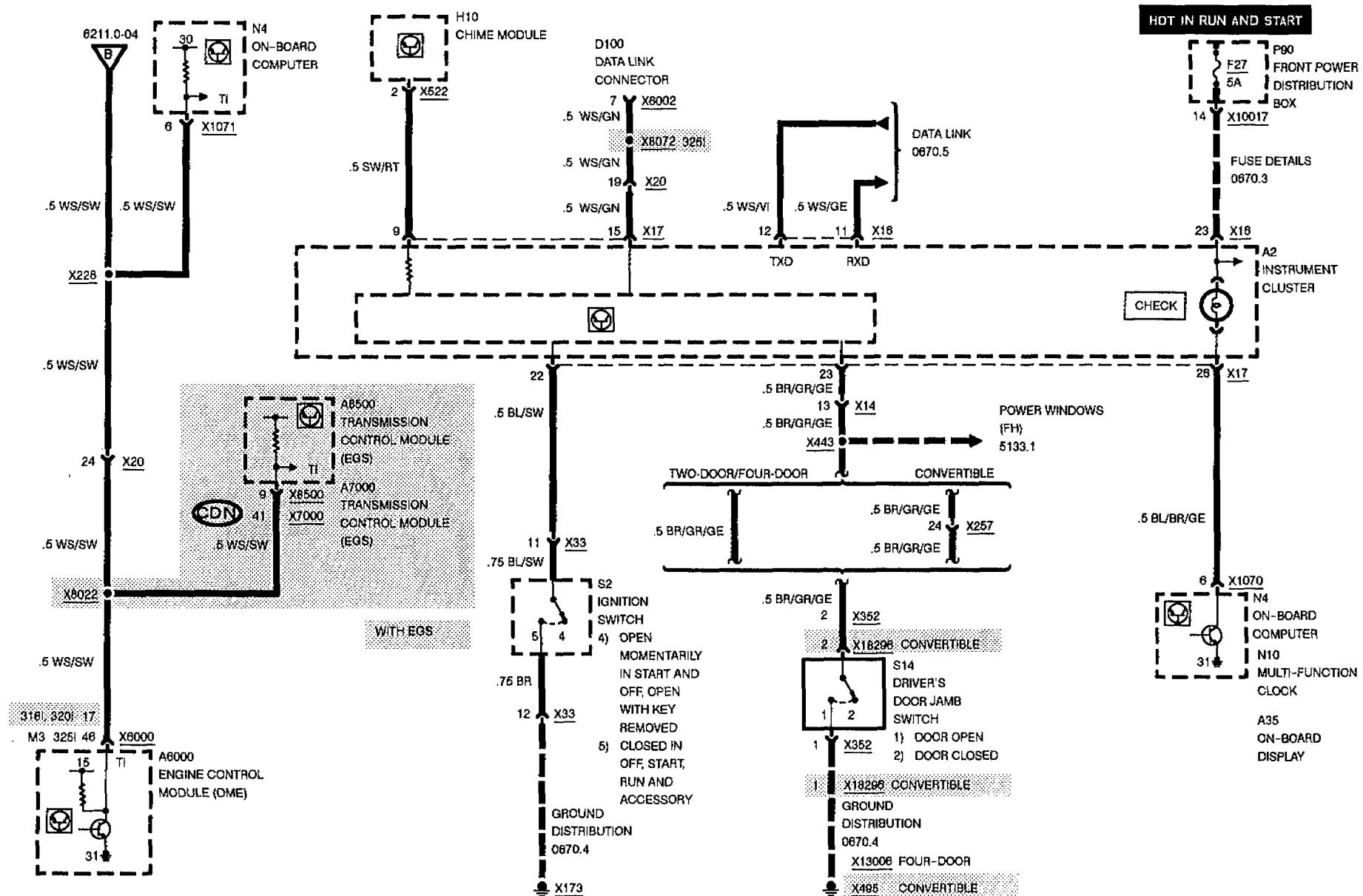
12/94

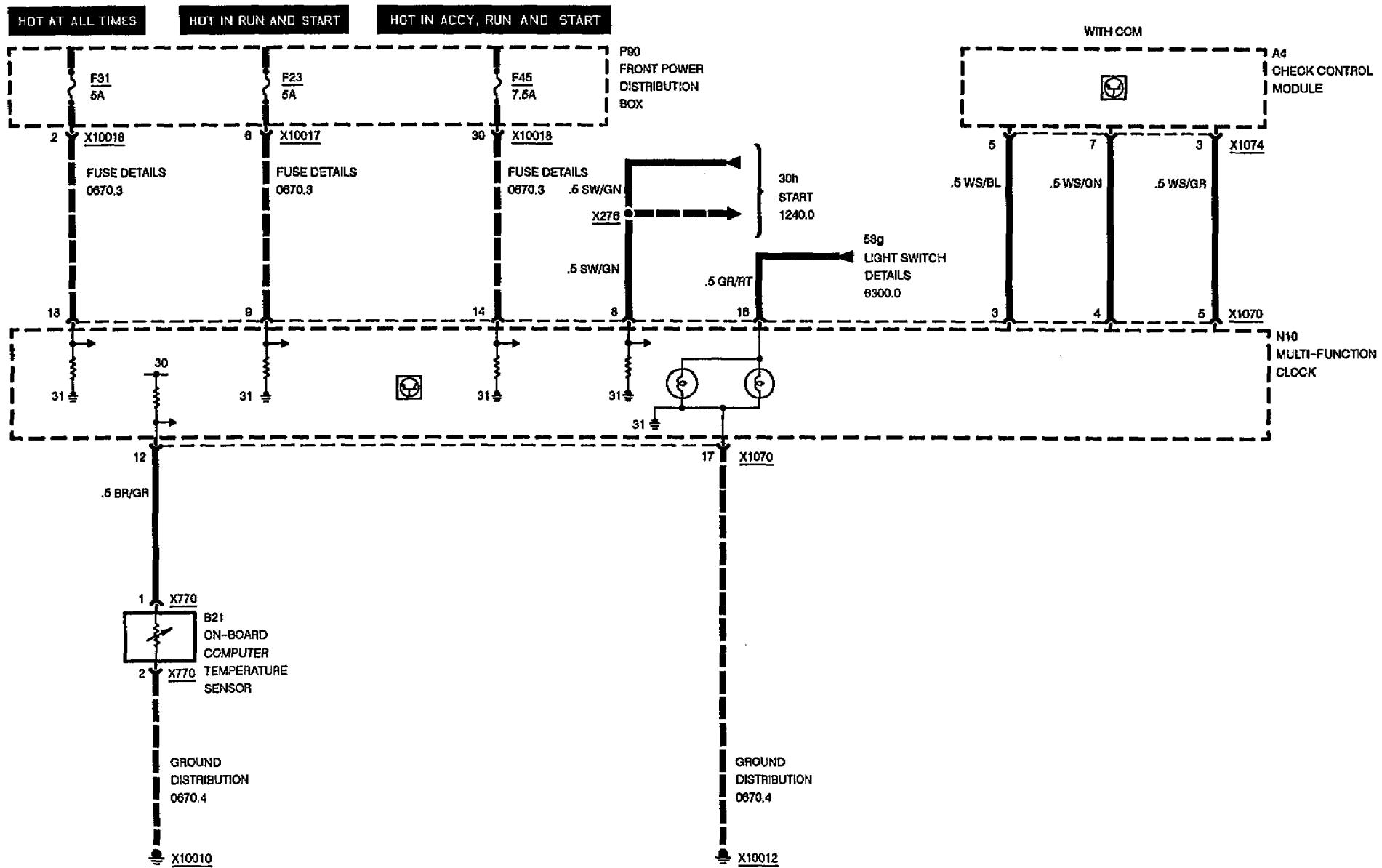


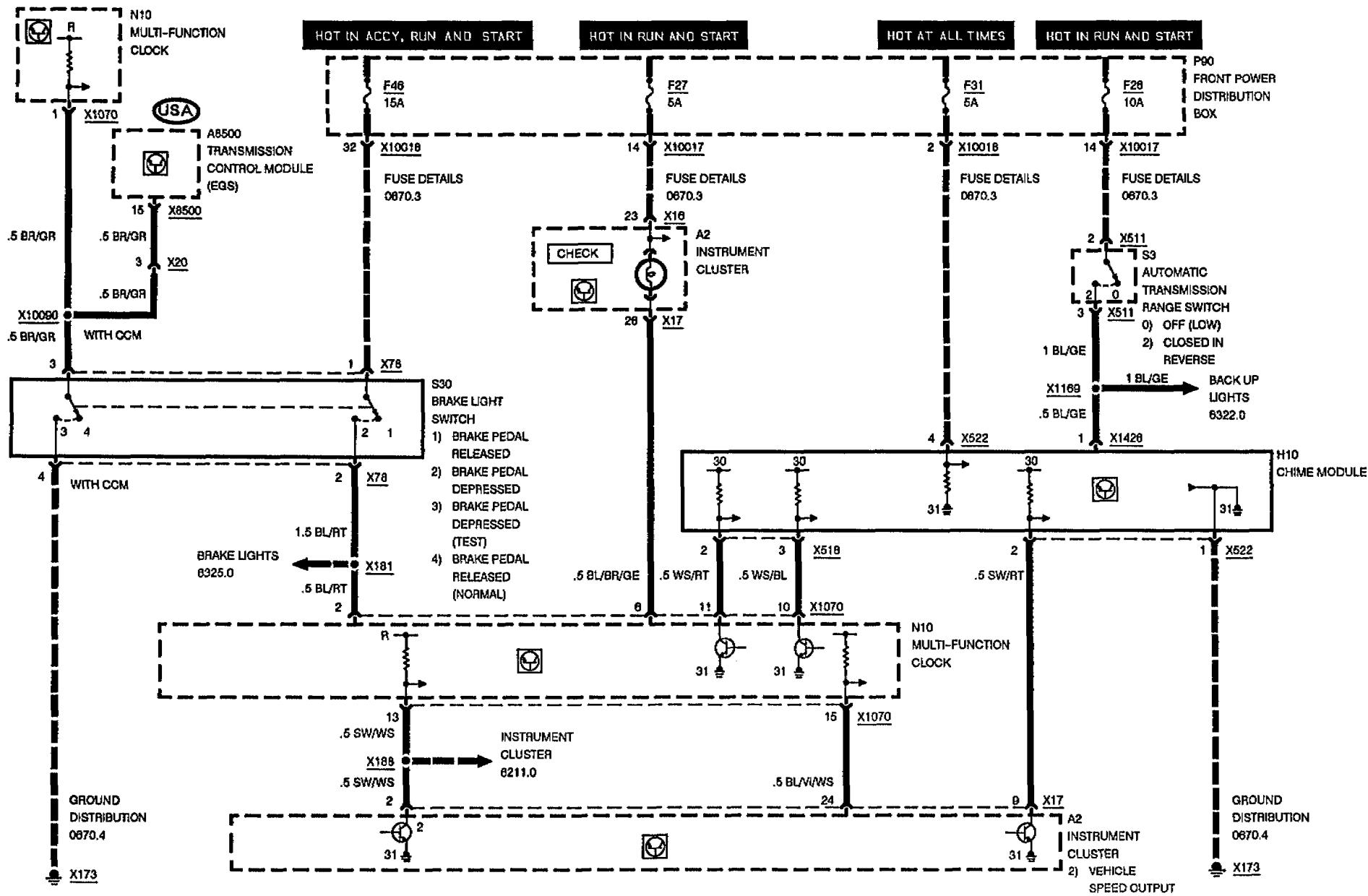
1994



INSTRUMENT CLUSTER INDICATORS









ON-BOARD DISPLAY

HOT IN ACCY, RUN AND START

HOT IN RUN AND START

HOT AT ALL TIMES

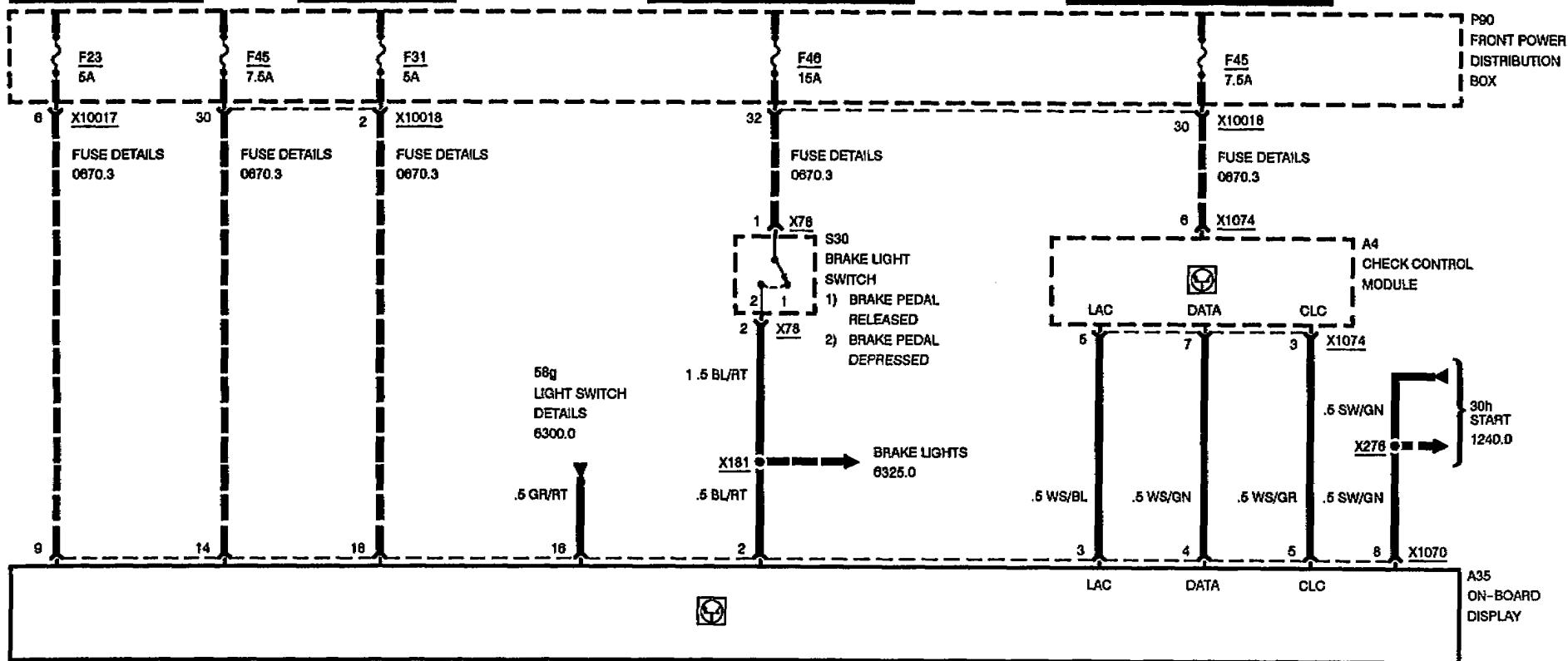
HOT IN ACCY, RUN AND START

HOT IN ACCY, RUN AND START

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1994



GROUND DISTRIBUTION 0670.4

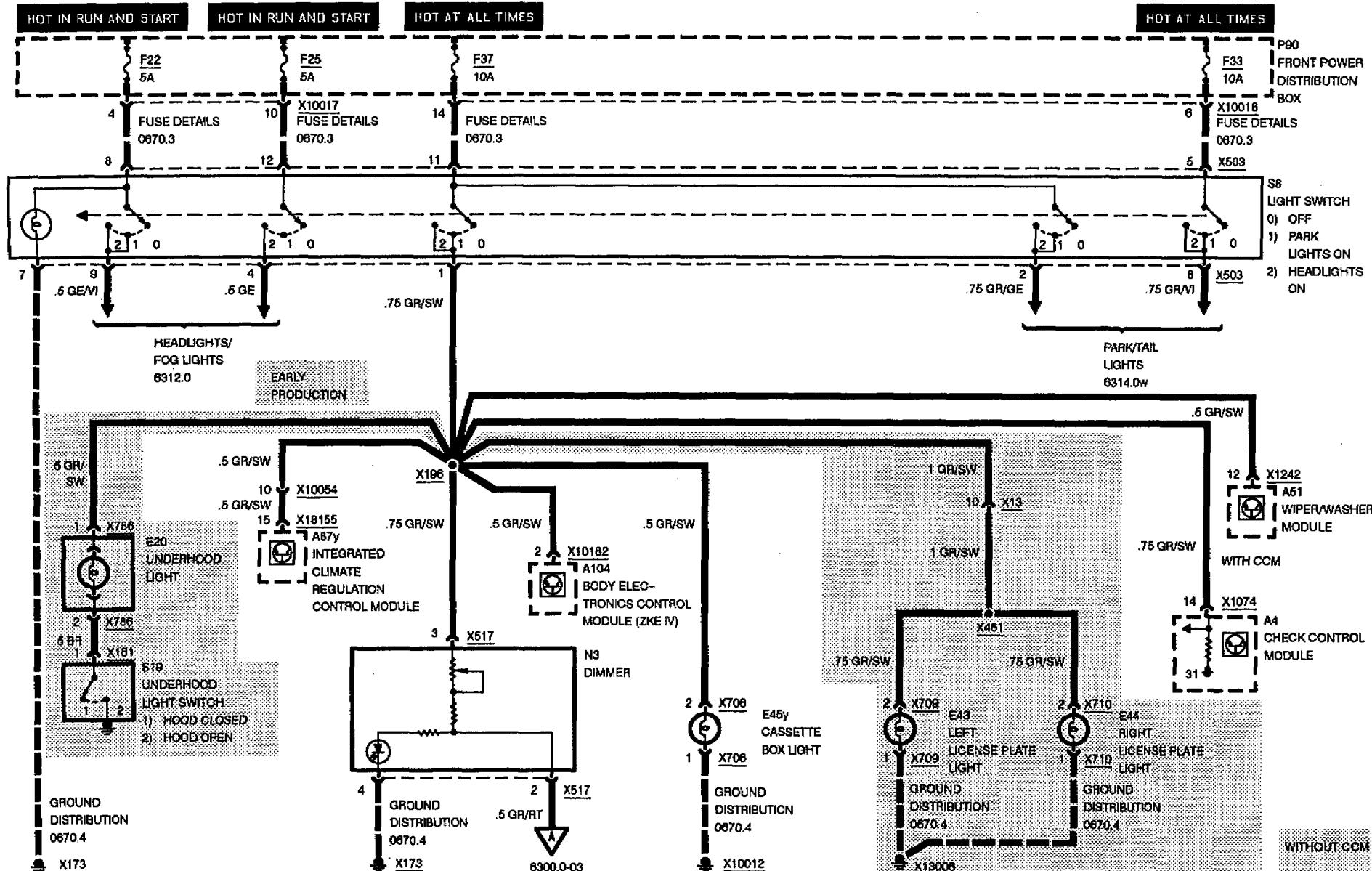
A8500 TRANSMISSION CONTROL MODULE (EGS)

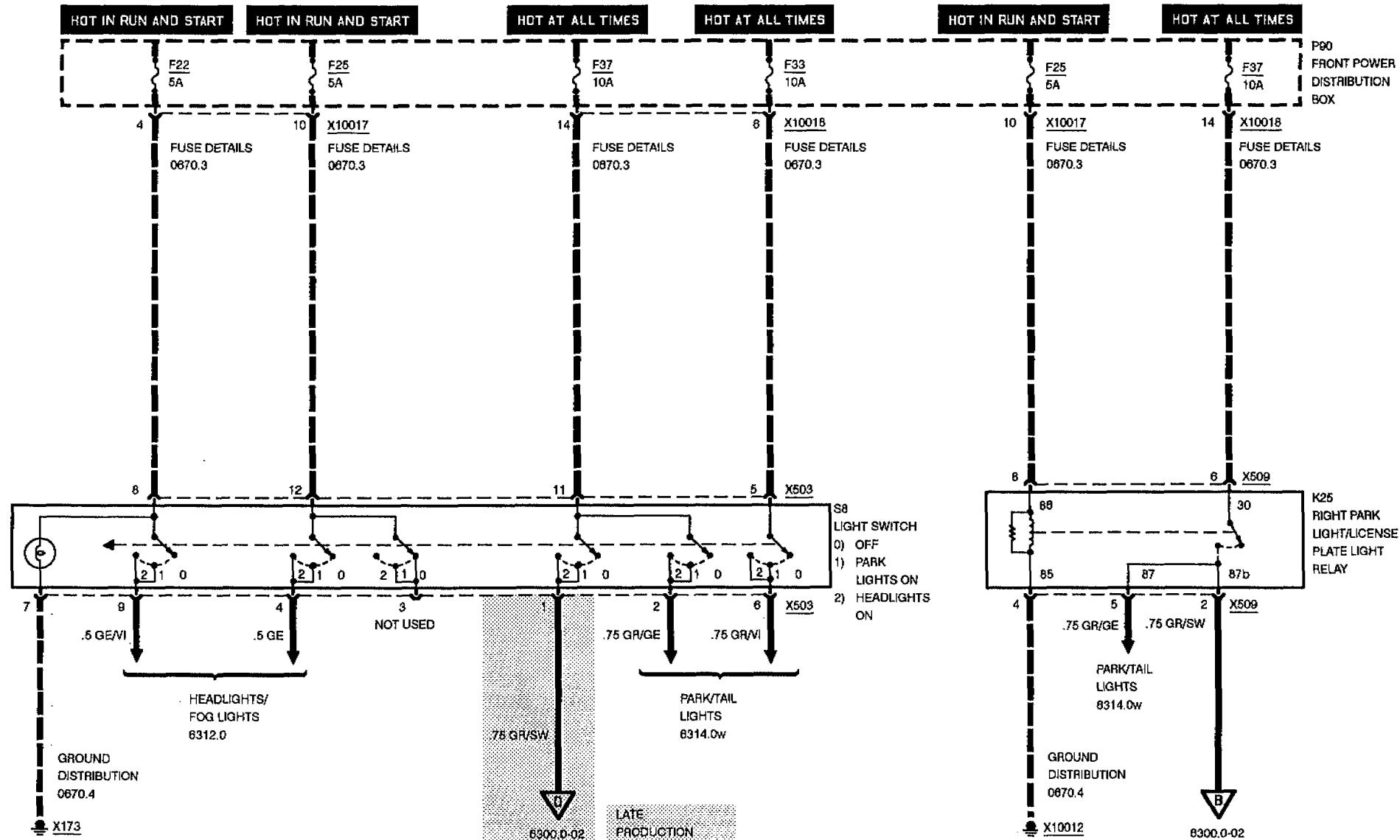
USA

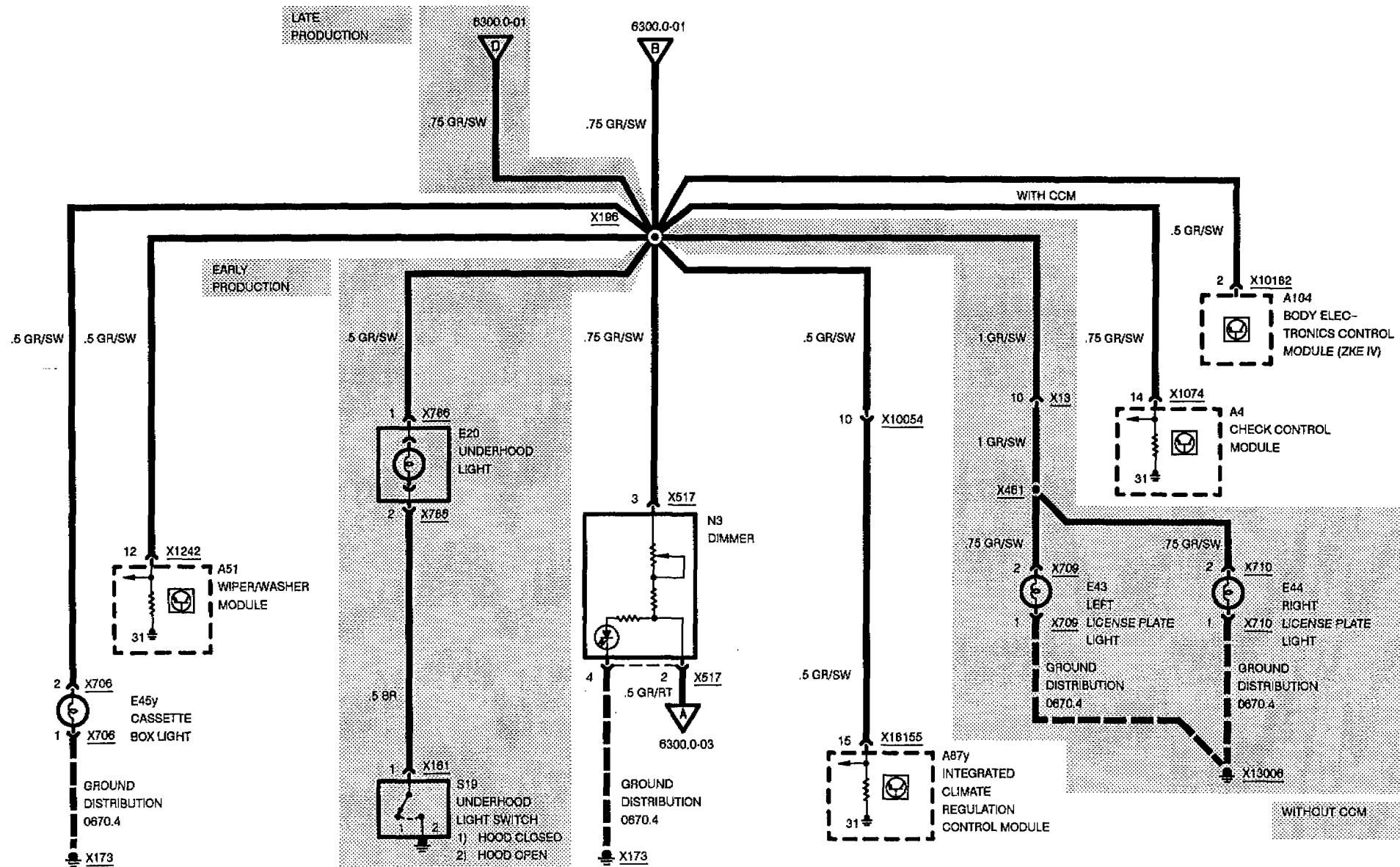
X10012



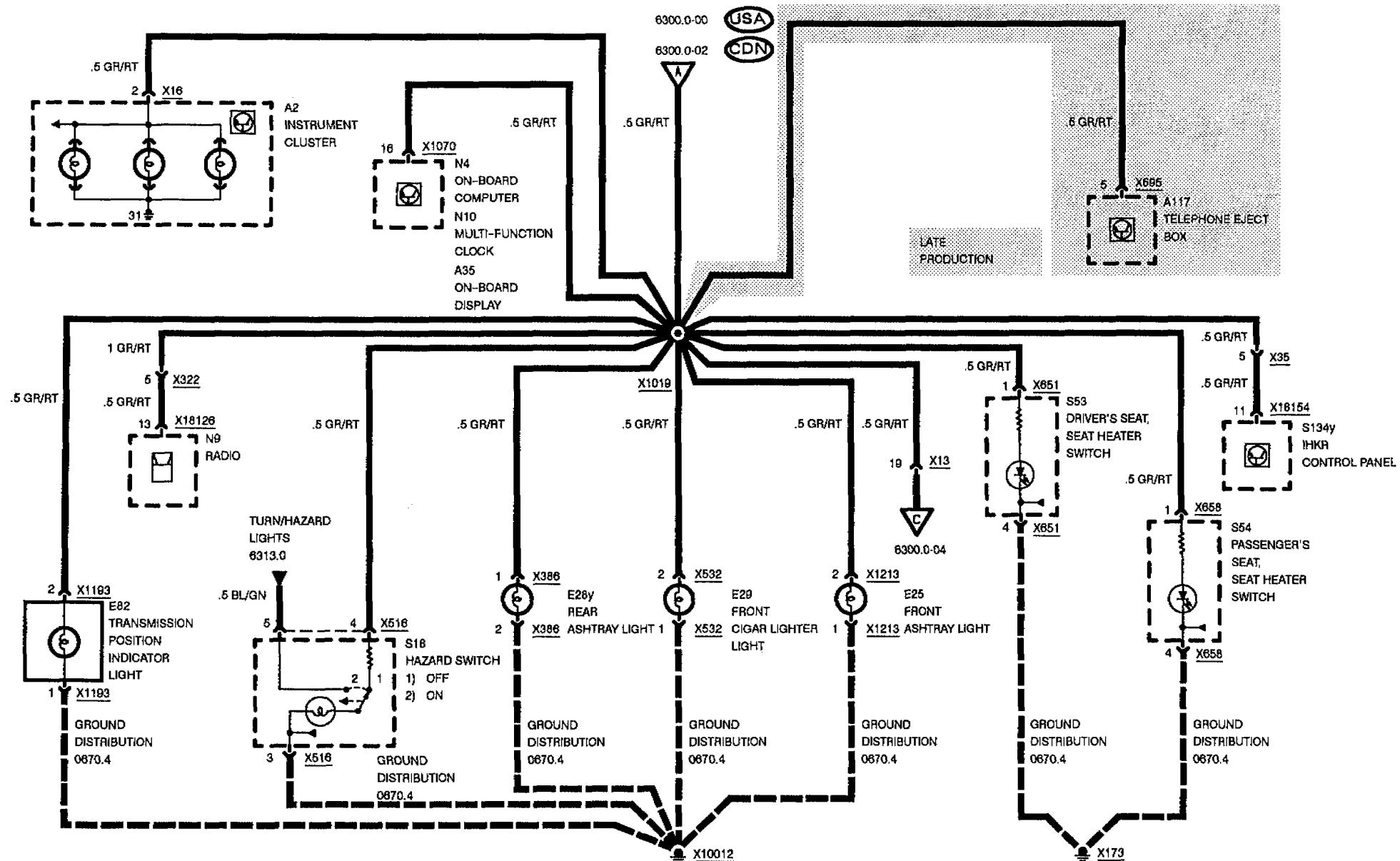
— 6300.0 —

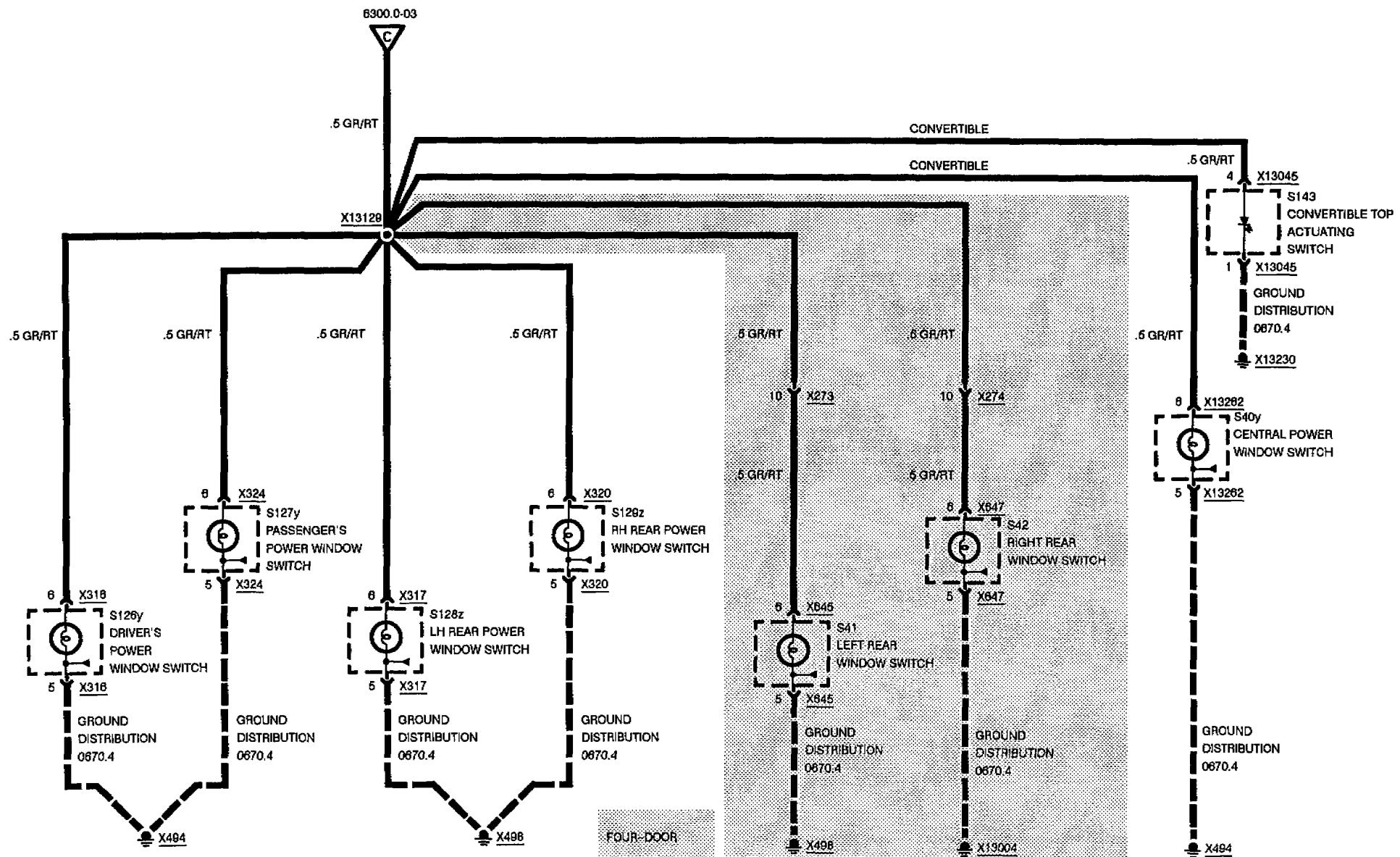






BMW 3 LIGHT SWITCH DETAILS







6312.0



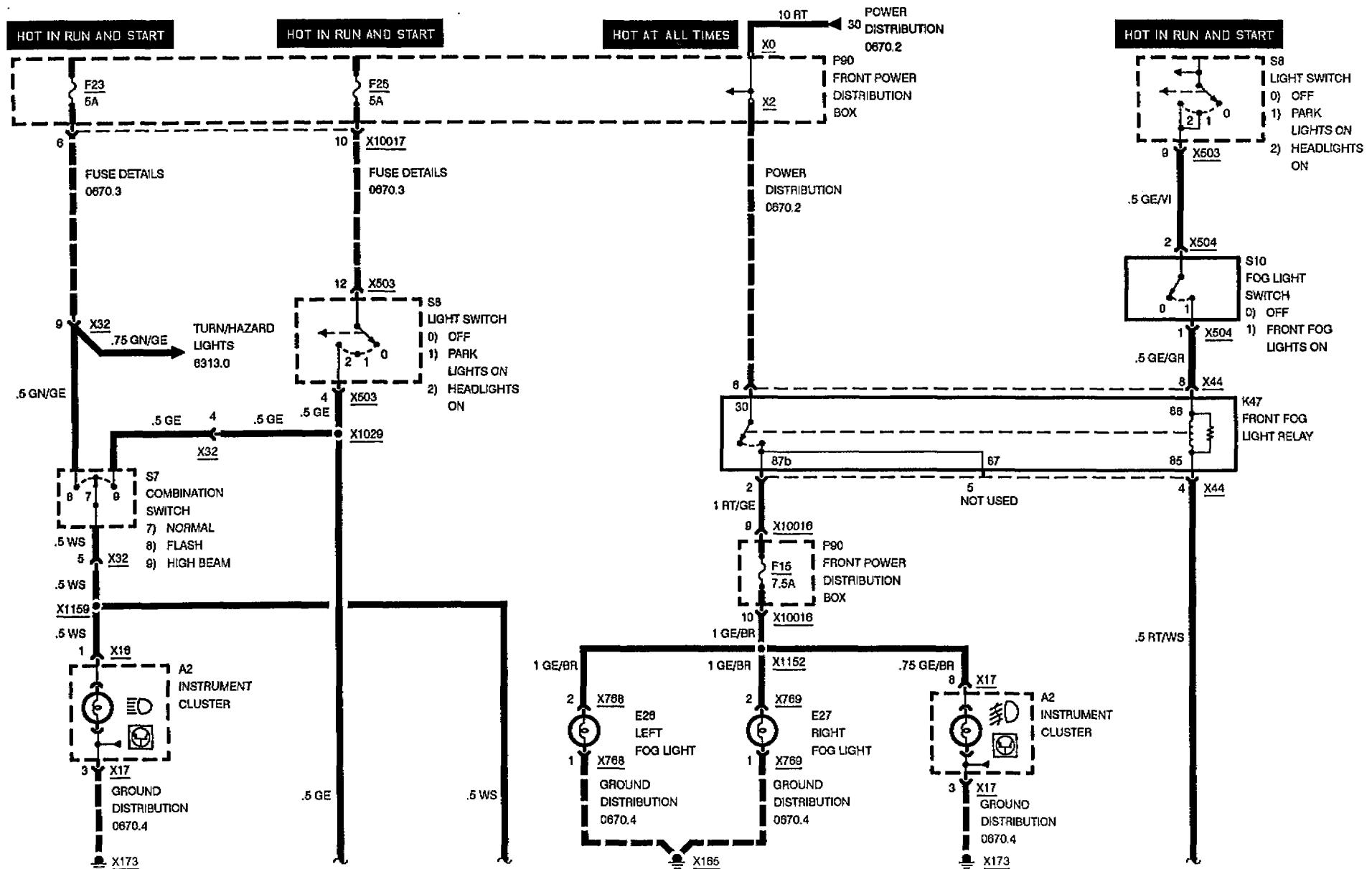
HEADLIGHTS/ FOG LIGHTS

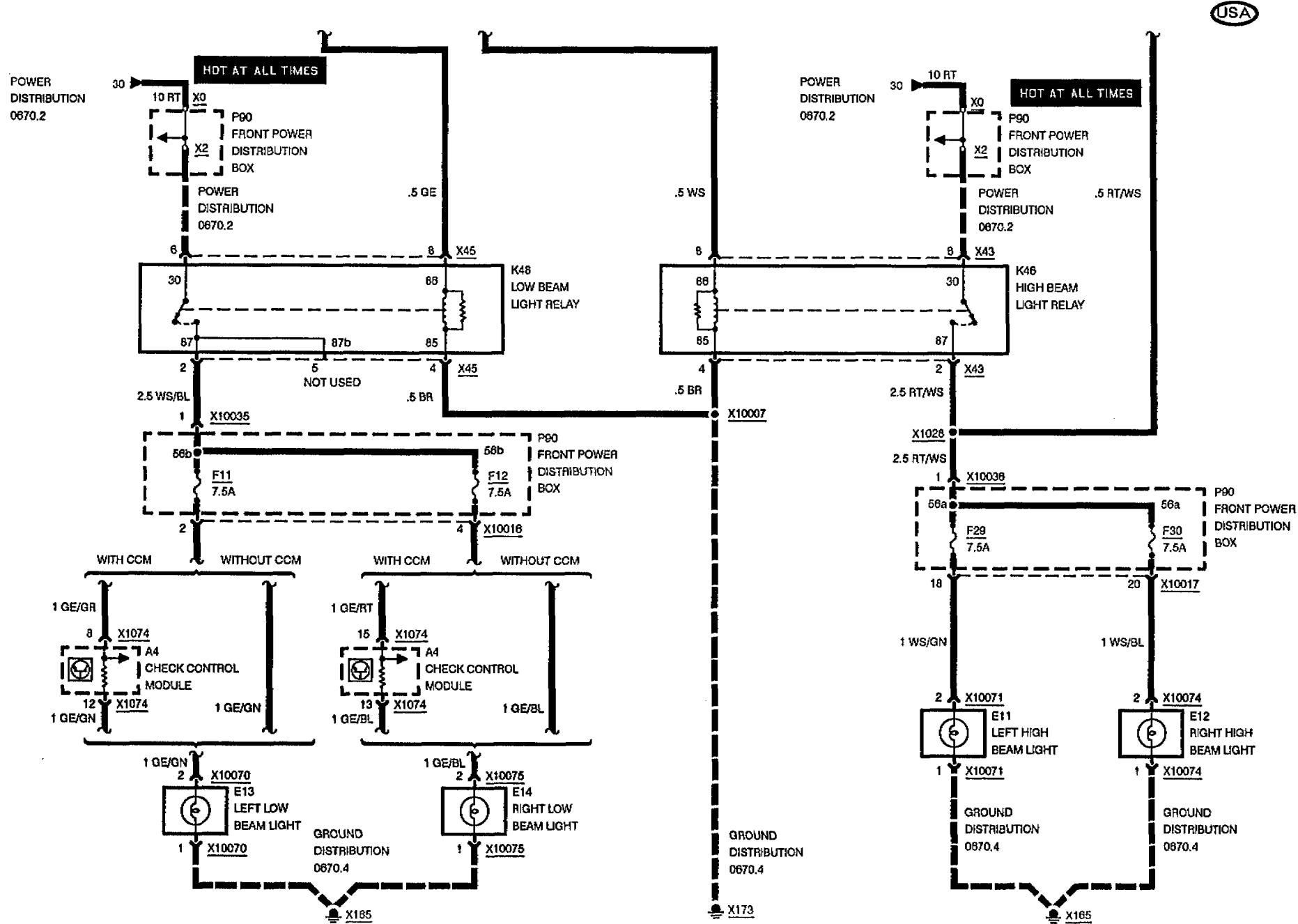
USA

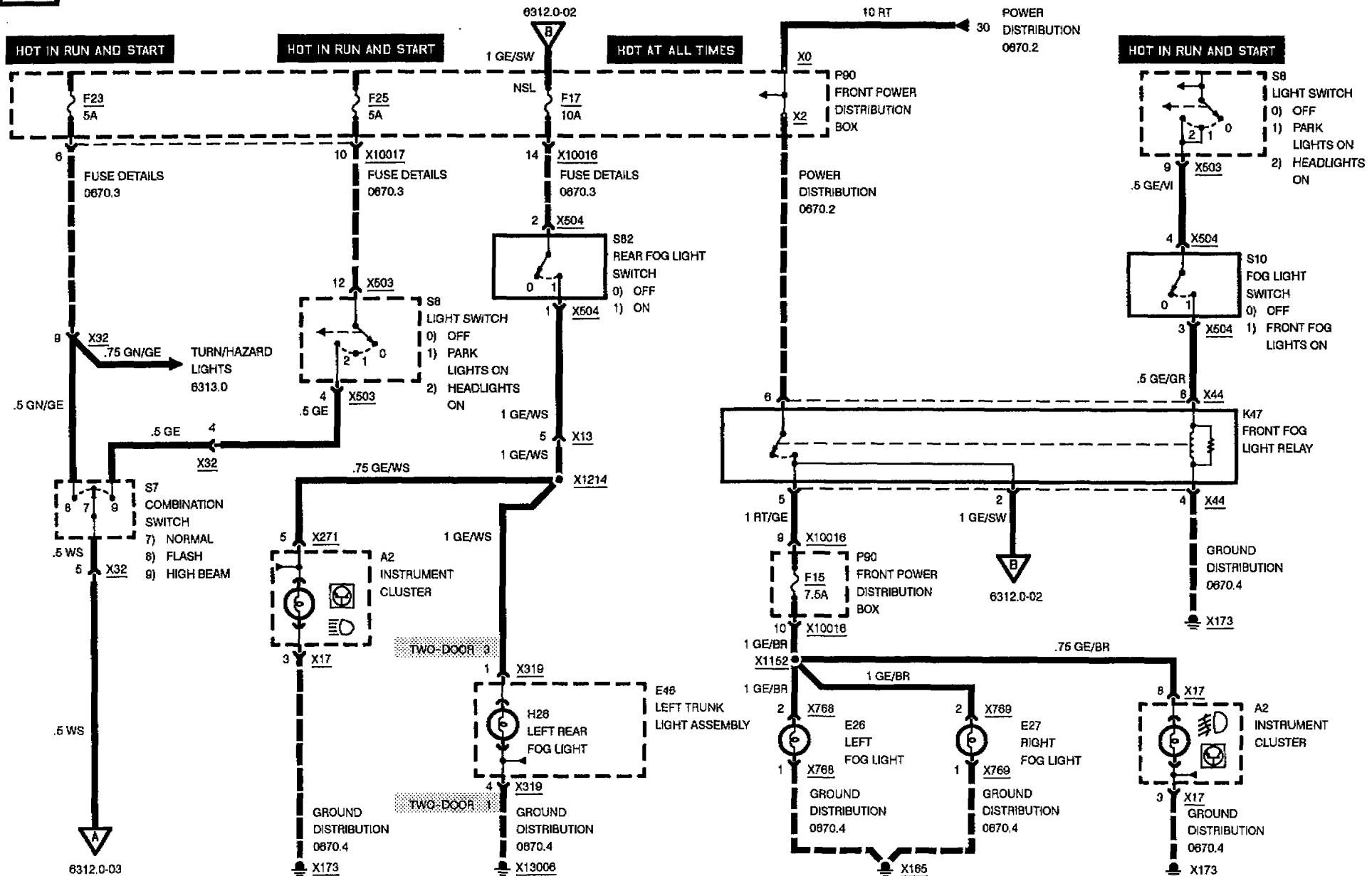
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6312.0-00

1994



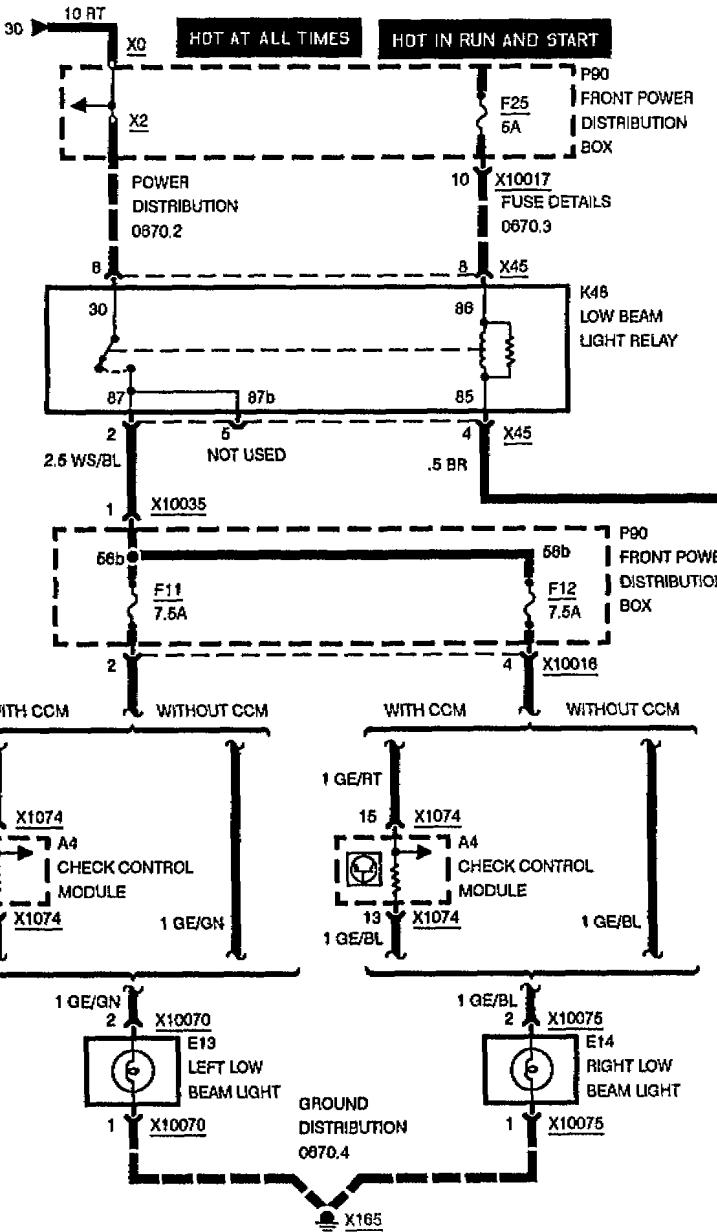






HEADLIGHTS/ FOG LIGHTS

CDN

POWER
DISTRIBUTION
0670.2

6312.0-02

.5 WS

X10007

.5 BR

.5 RT/WS

X1159

.5 RT/WS

X10038

.5 RT/WS

X16

X17

A2

INSTRUMENT

CLUSTER

1 WS/GN

X10071

E11

LEFT HIGH

BEAM LIGHT

1 WS/BL

X10074

E12

RIGHT HIGH

BEAM LIGHT

1

X10074

1

X165

X165

POWER
DISTRIBUTION
0670.2

30 ► 10 RT

X0 HOT AT ALL TIMES

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

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DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

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DISTRIBUTION BOXX2 POWER
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0670.2X43 K46 HIGH BEAM
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30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
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0670.2X43 K46 HIGH BEAM
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30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
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P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
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30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
DISTRIBUTION
0670.2X43 K46 HIGH BEAM
LIGHT RELAY

30 8 X43

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LIGHT RELAY

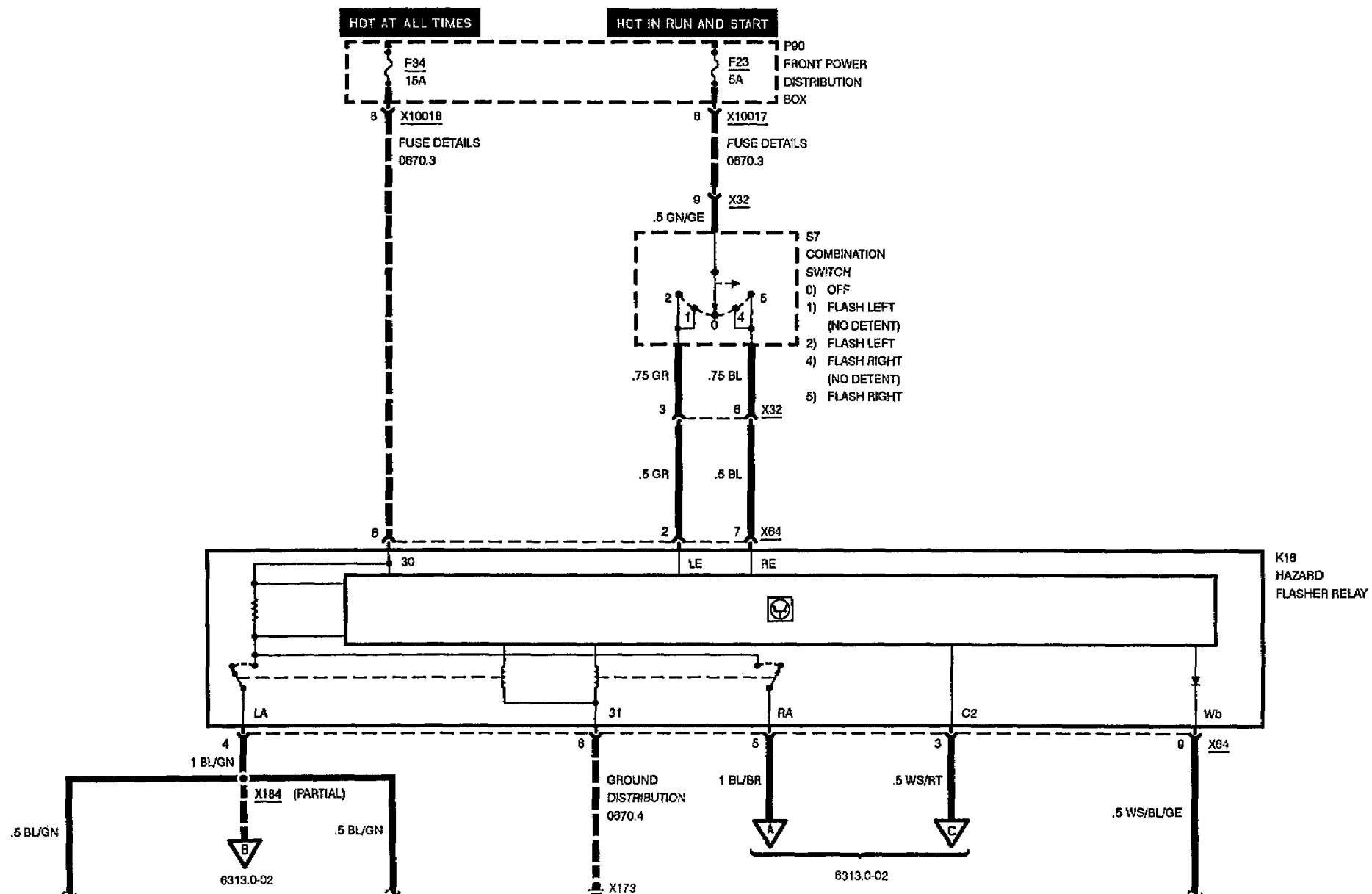
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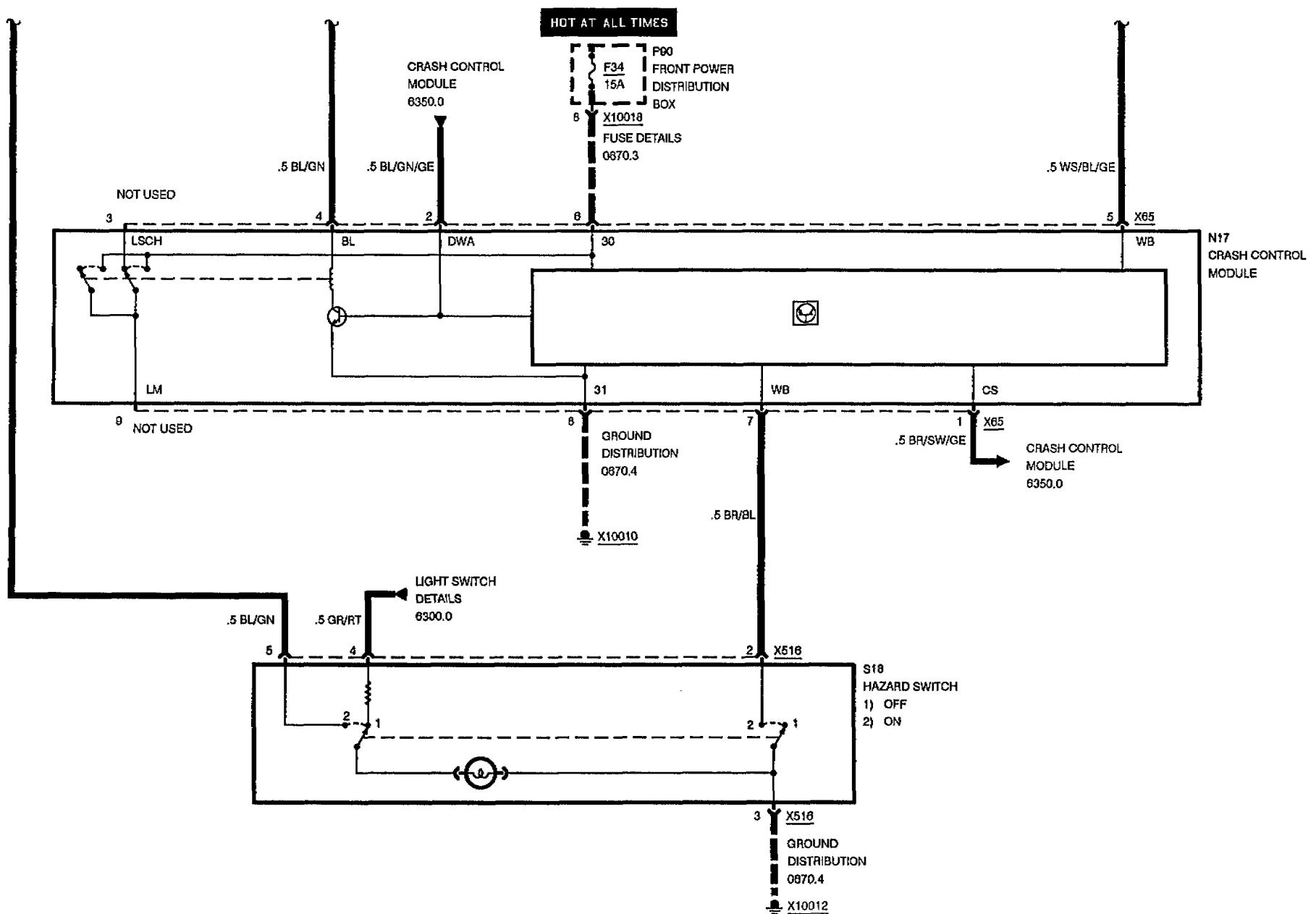
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DISTRIBUTION BOXX2 POWER
DISTRIBUTION
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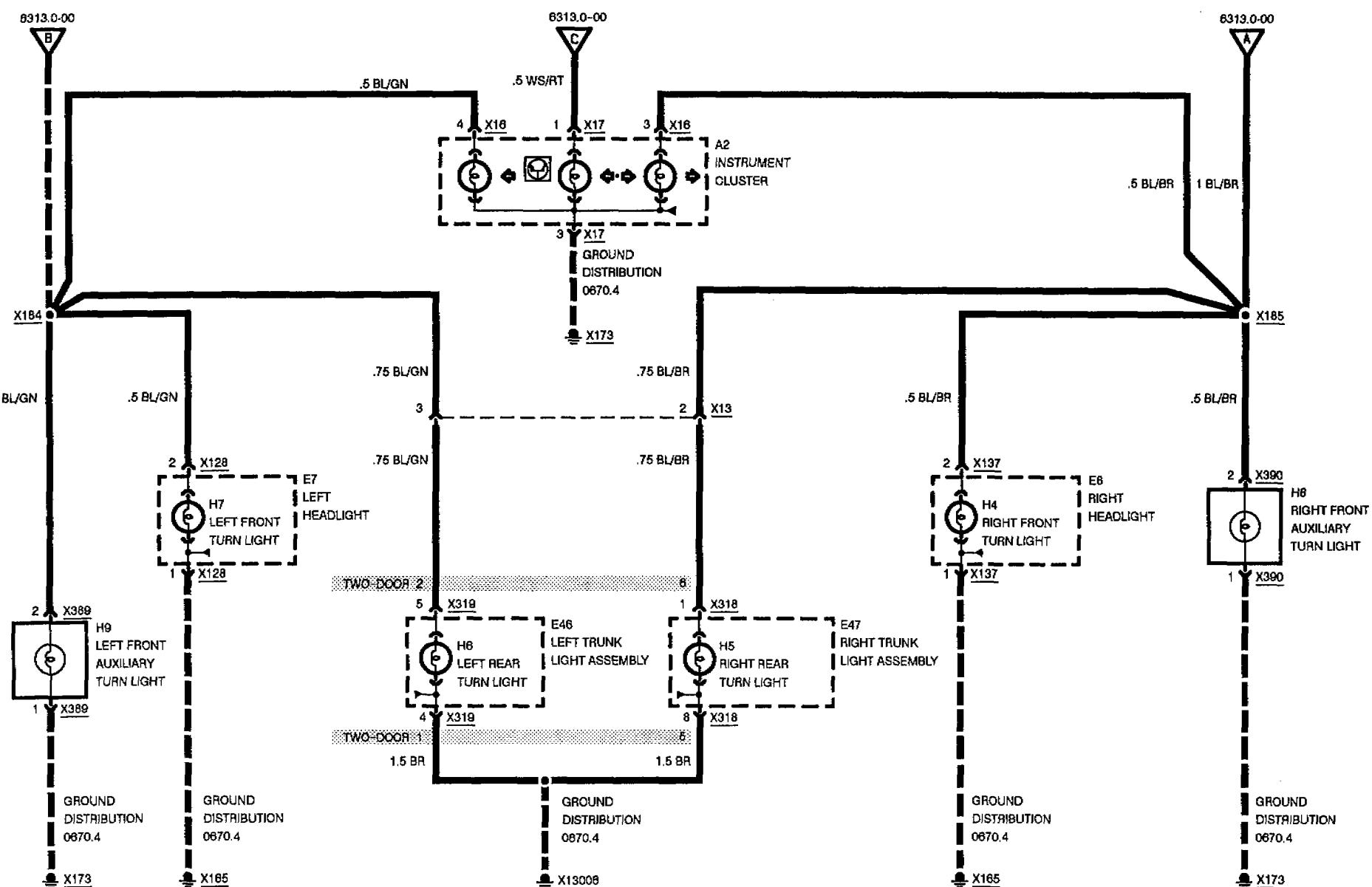
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P90 FRONT POWER
DISTRIBUTION BOXX2 POWER
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LIGHT RELAY

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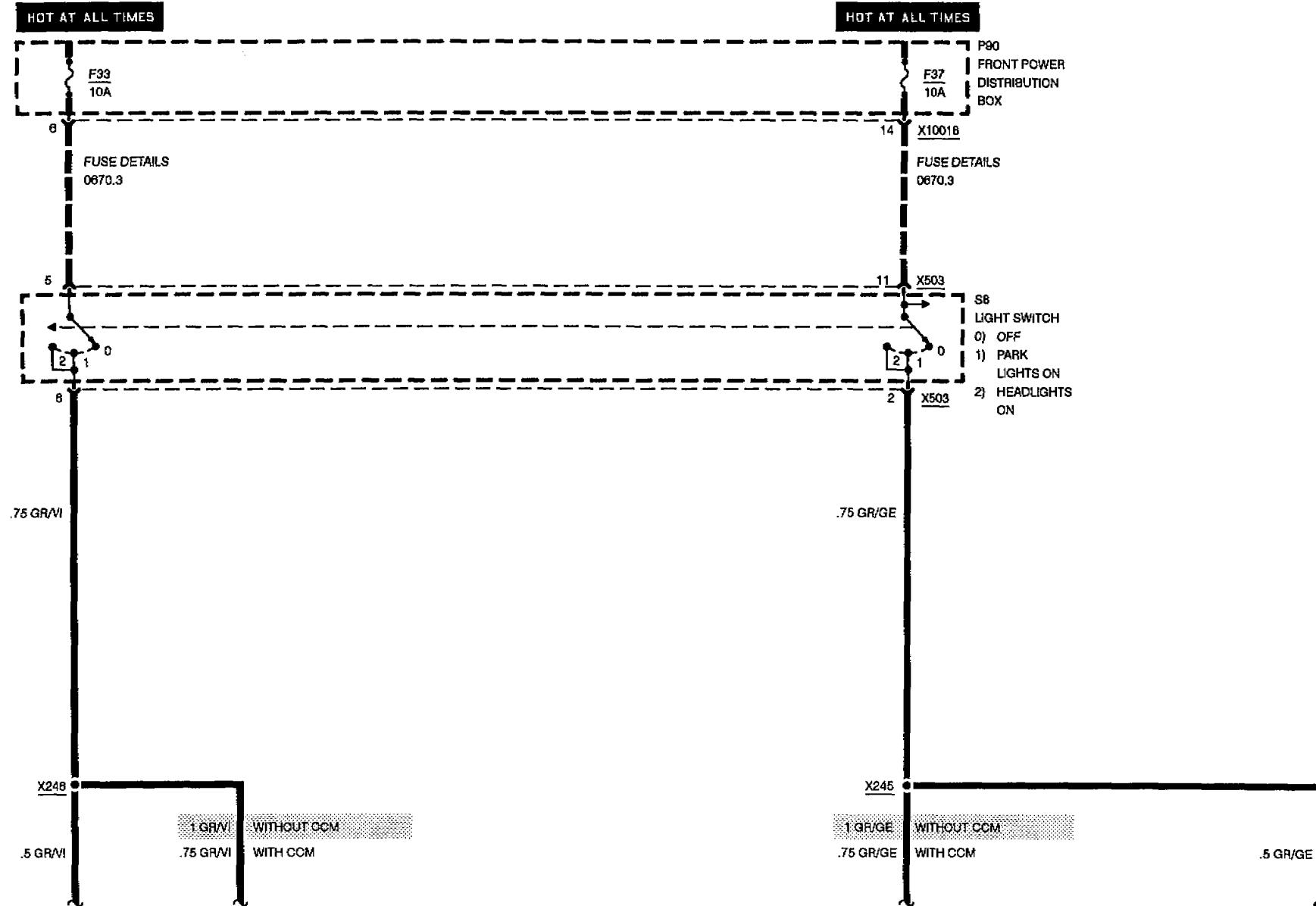




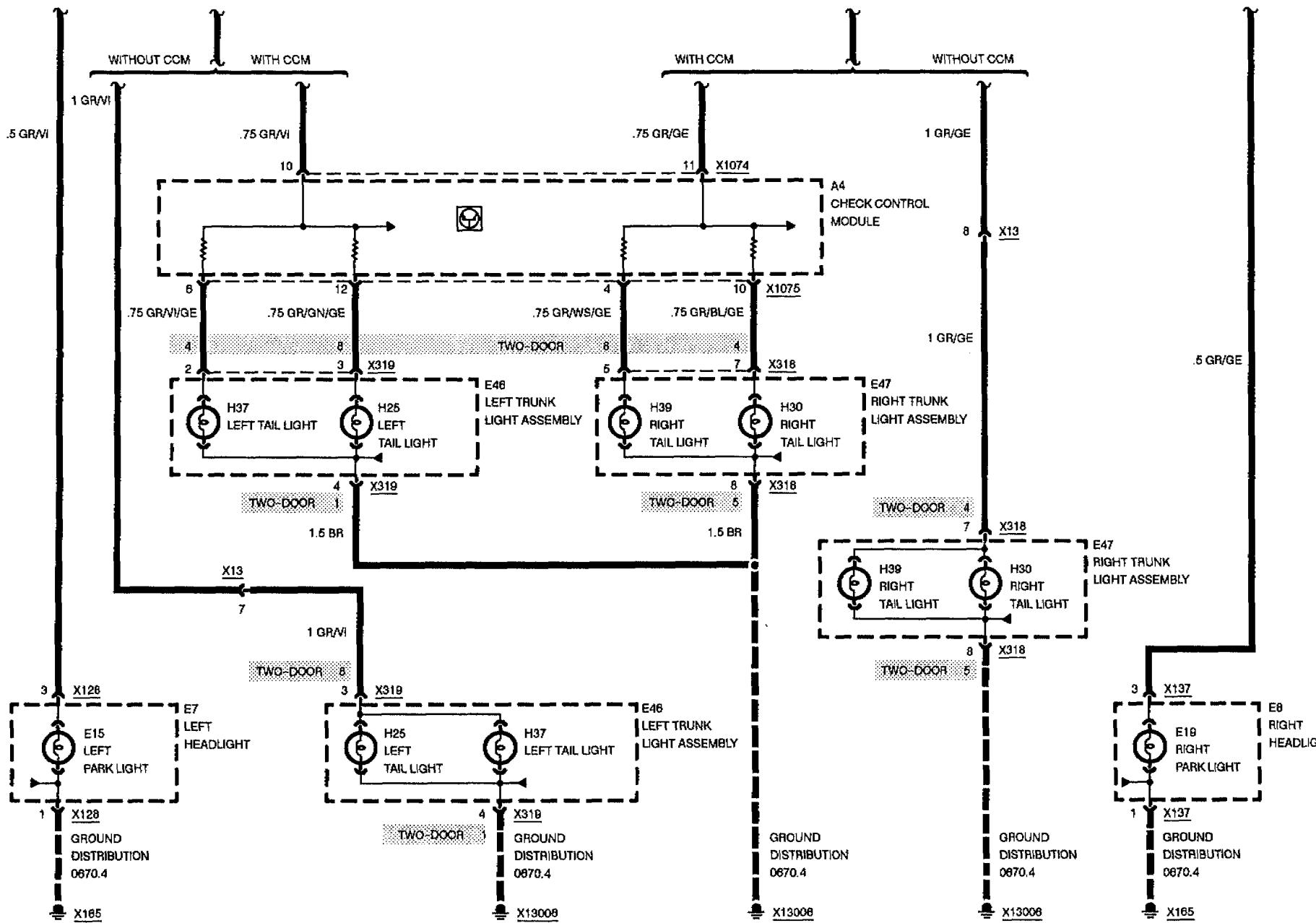


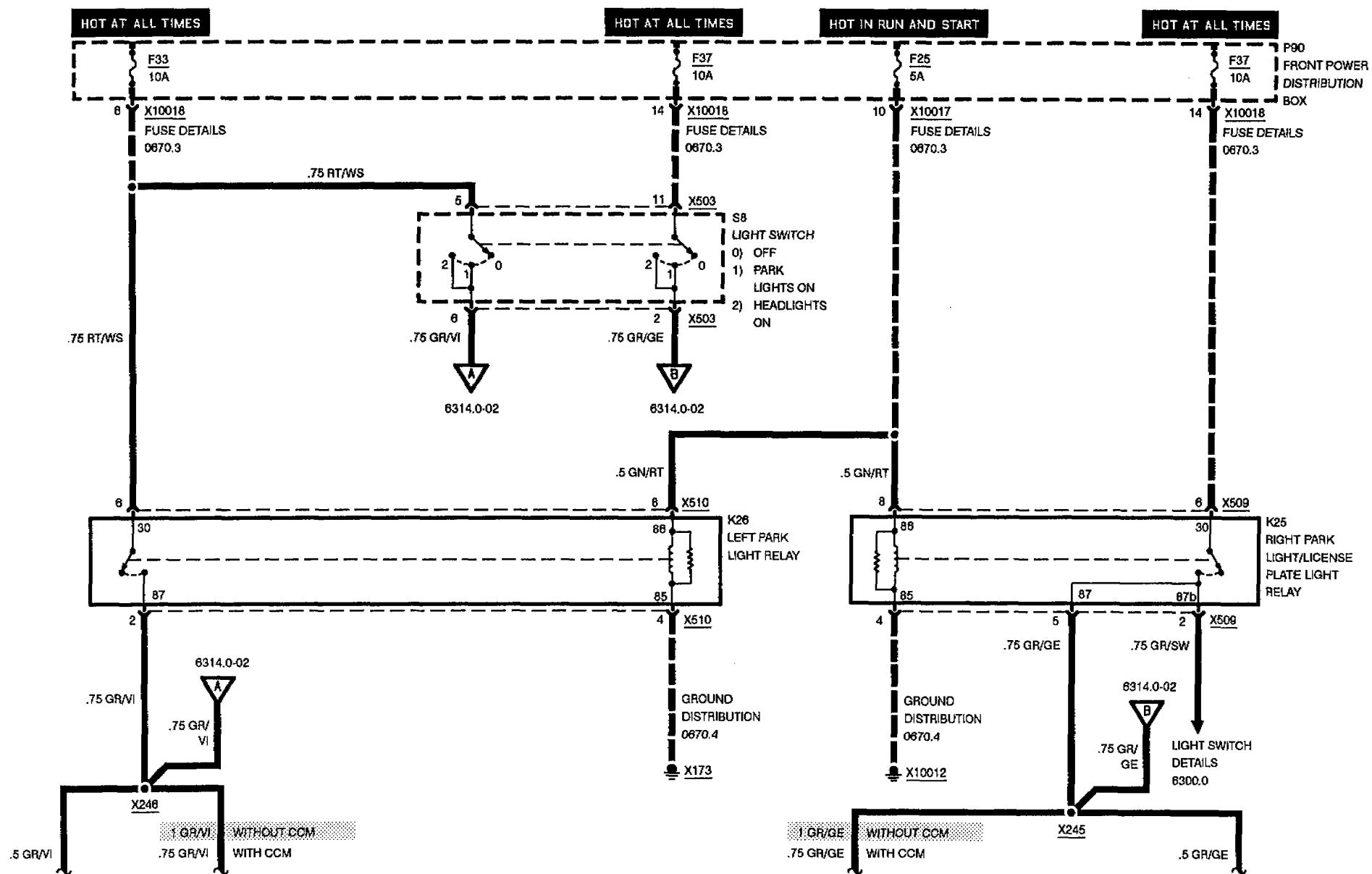


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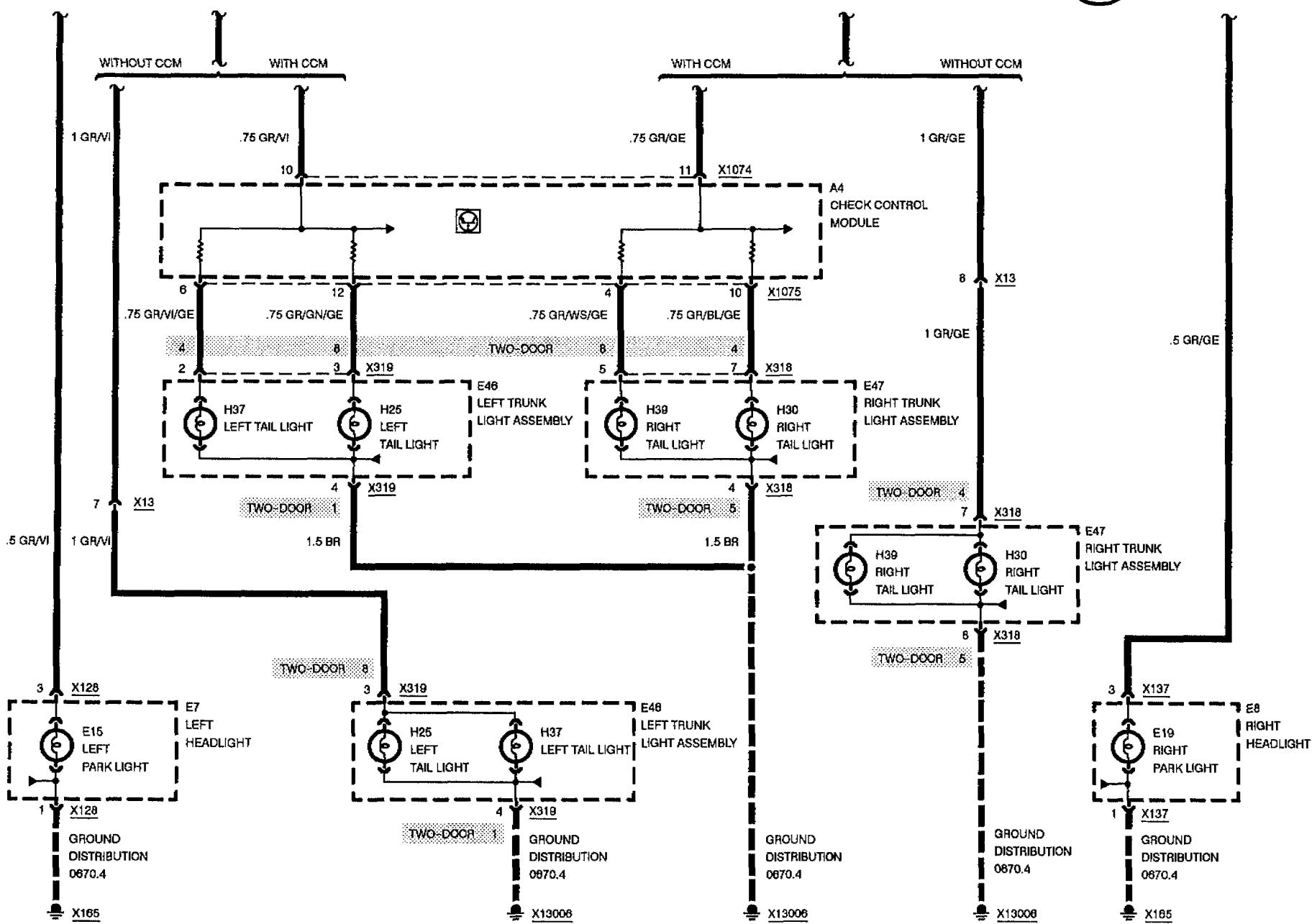


(USA)

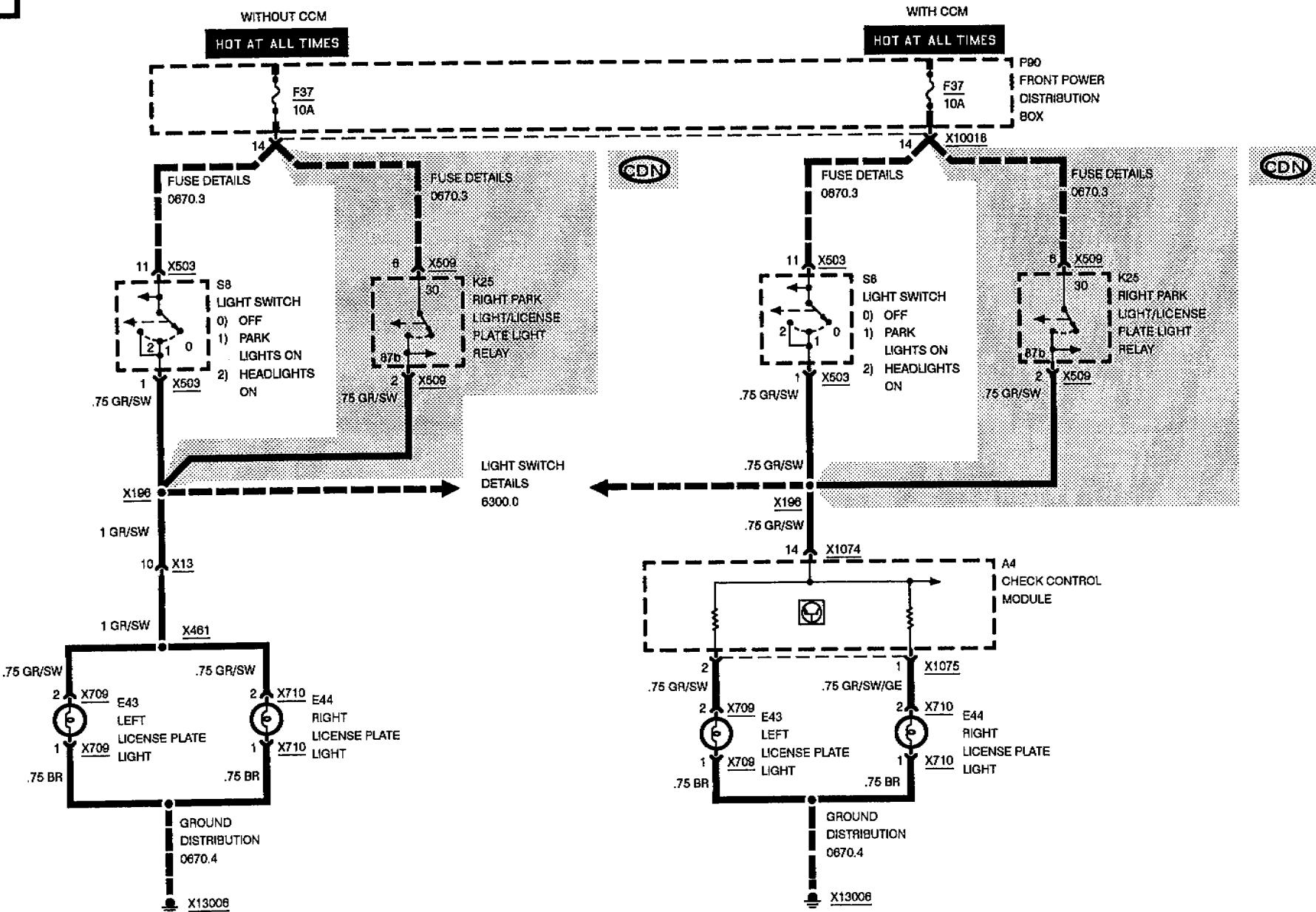


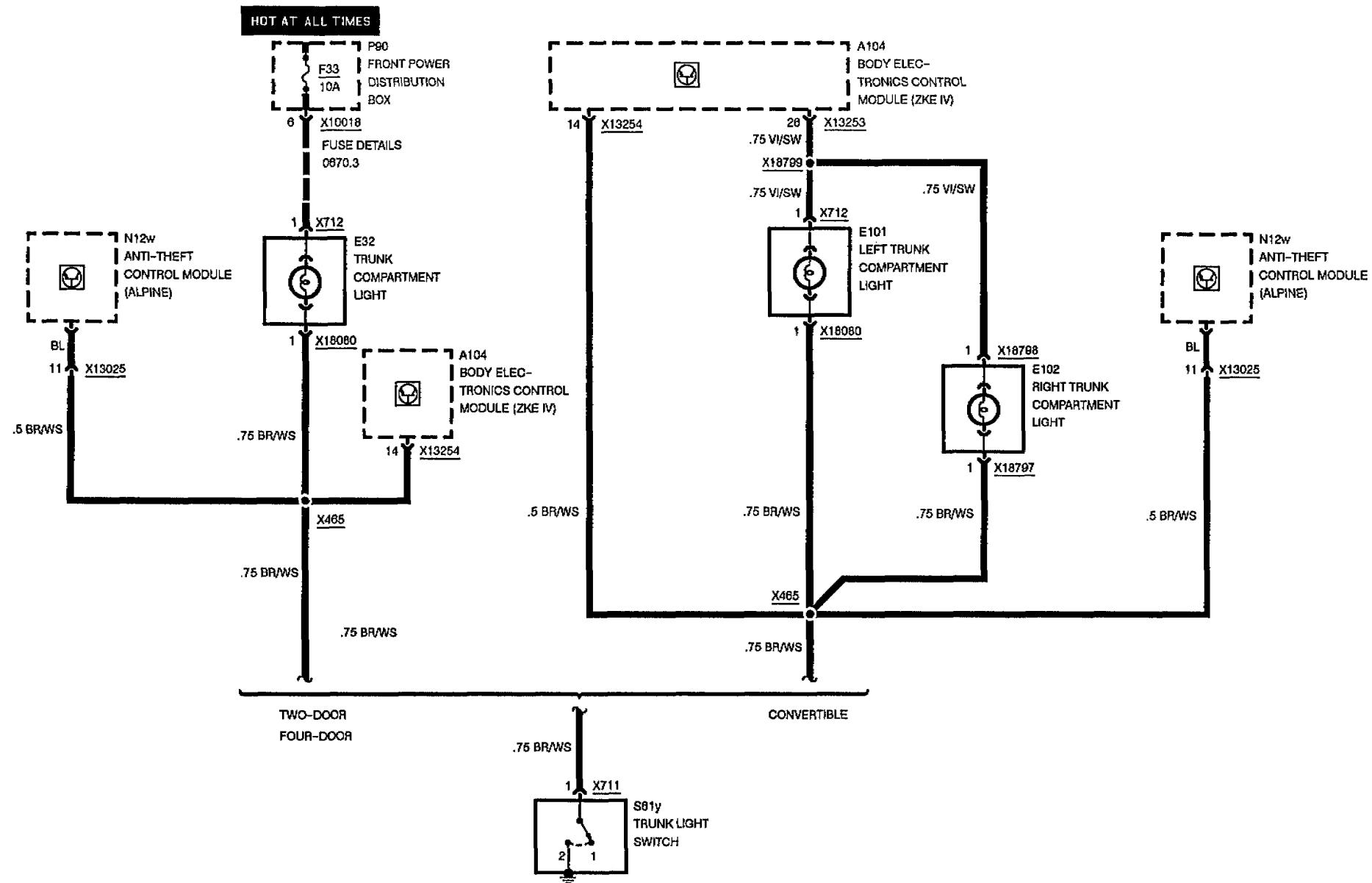


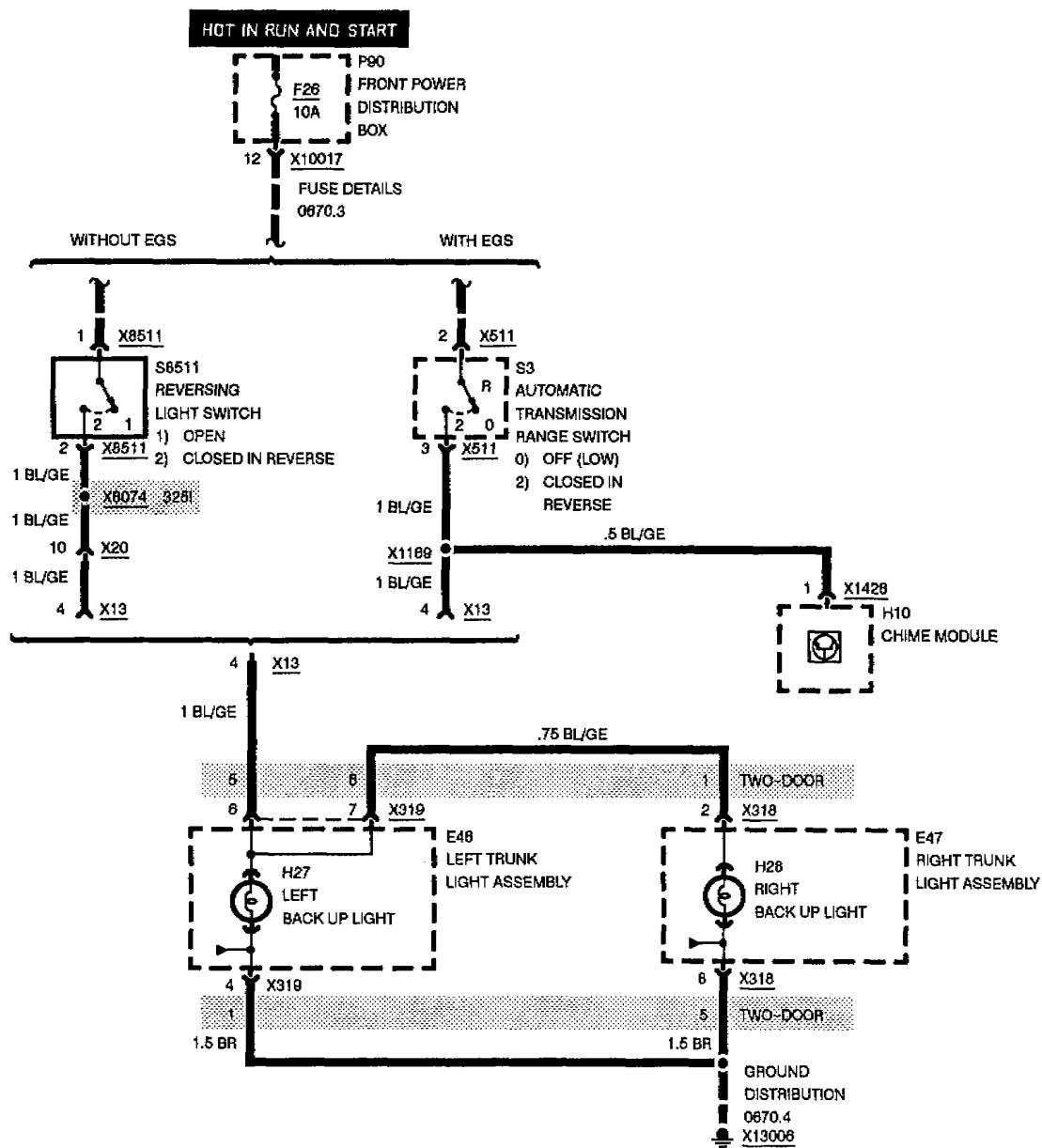
CDN



LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

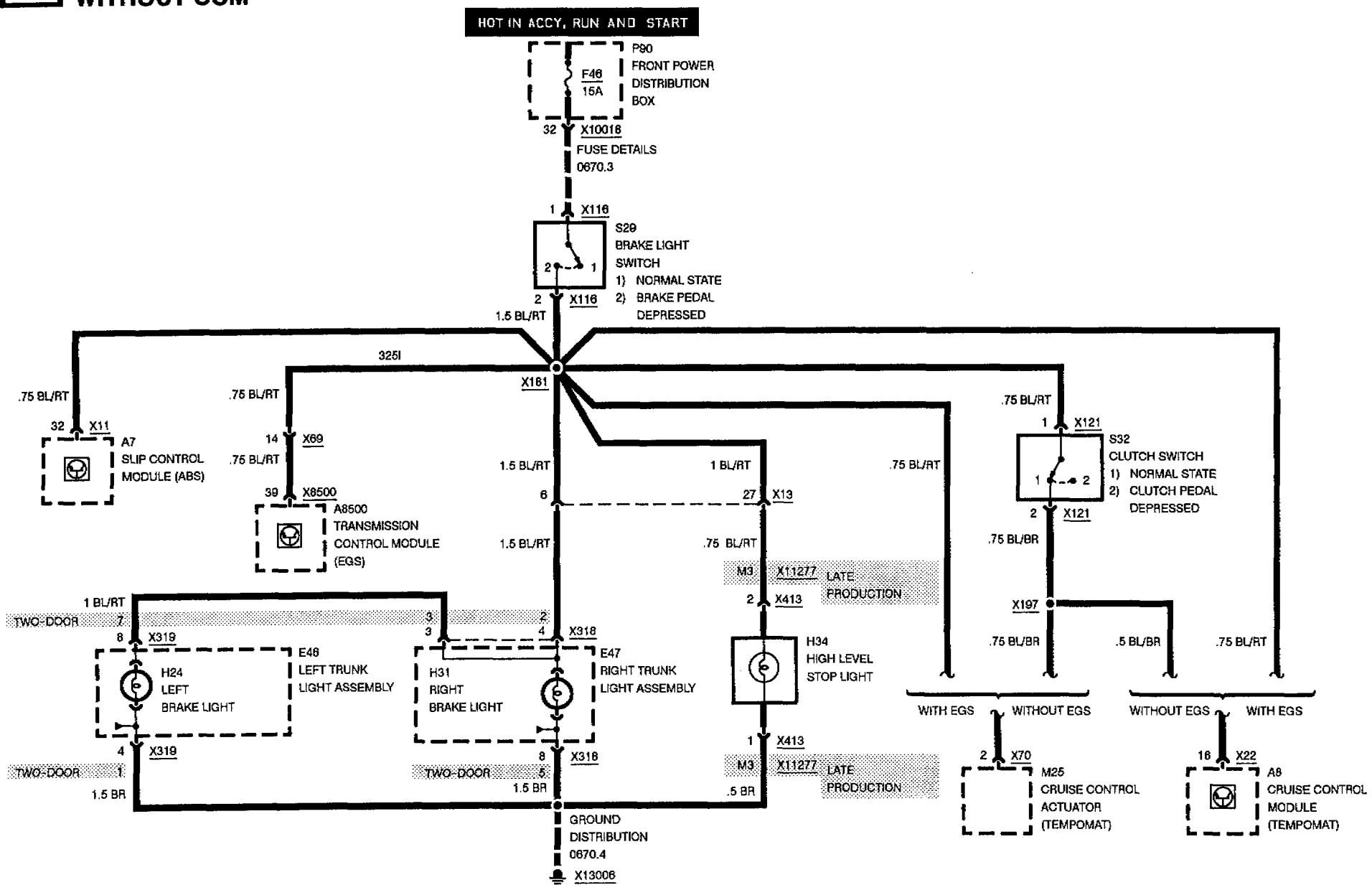


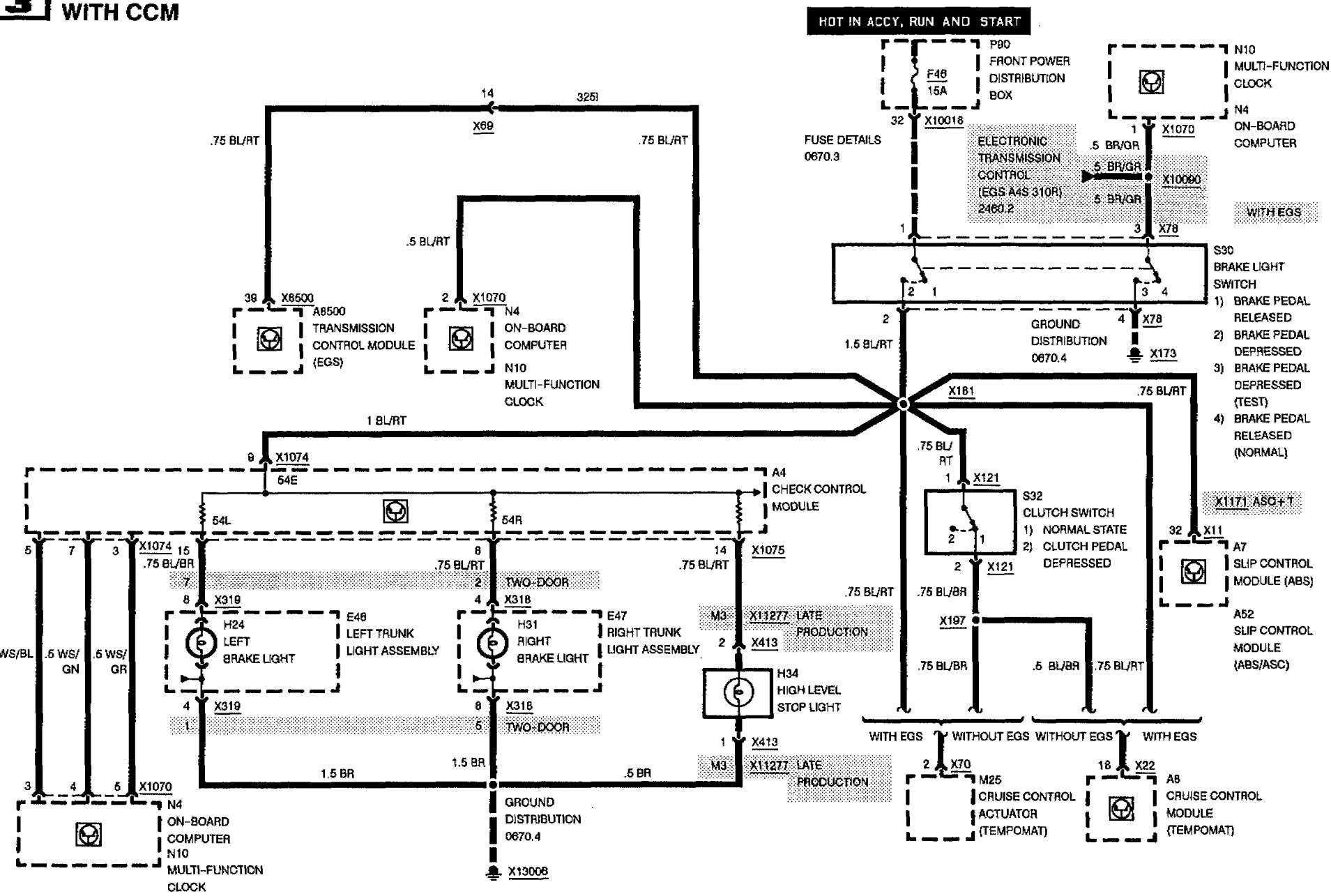


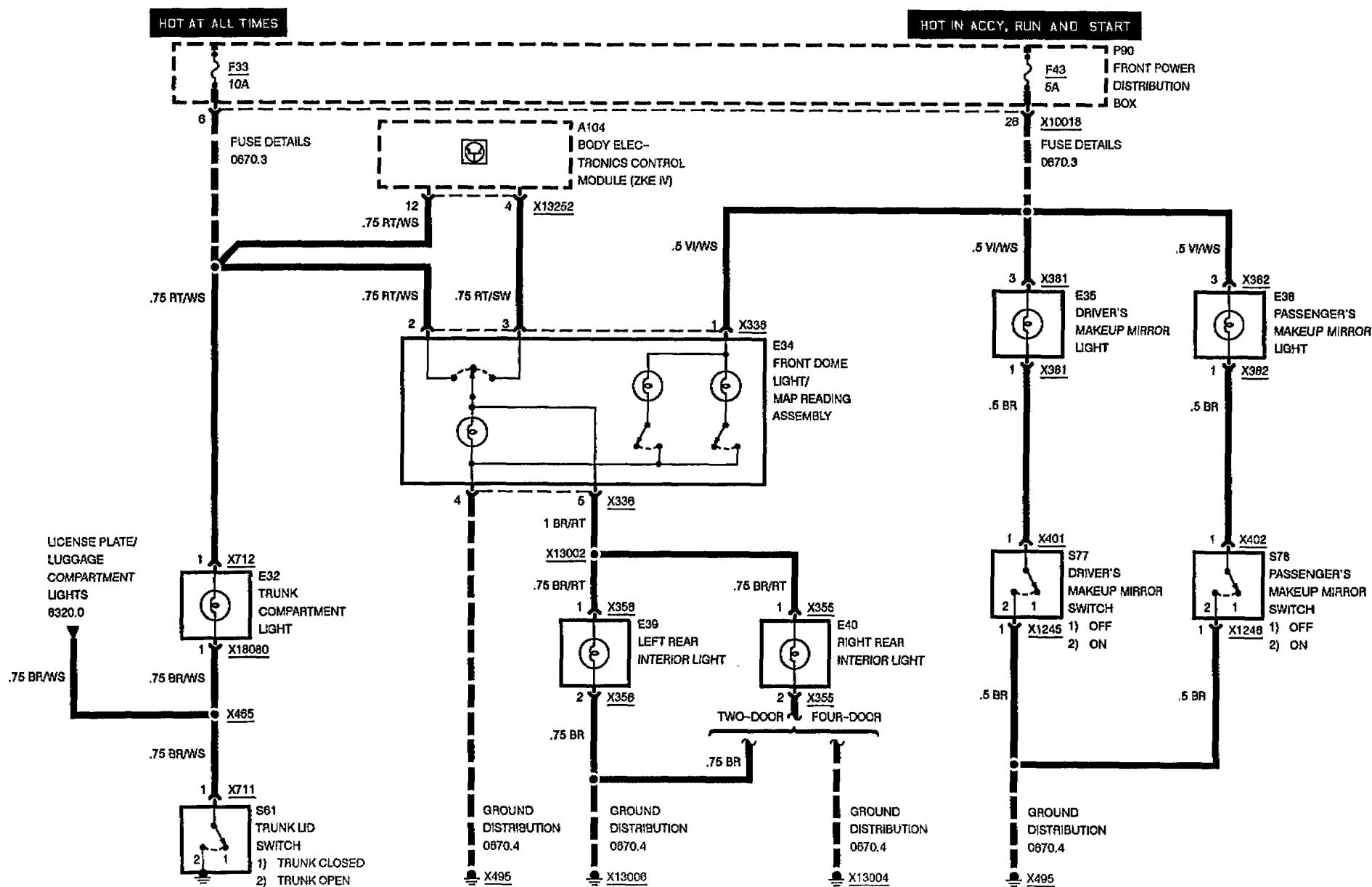


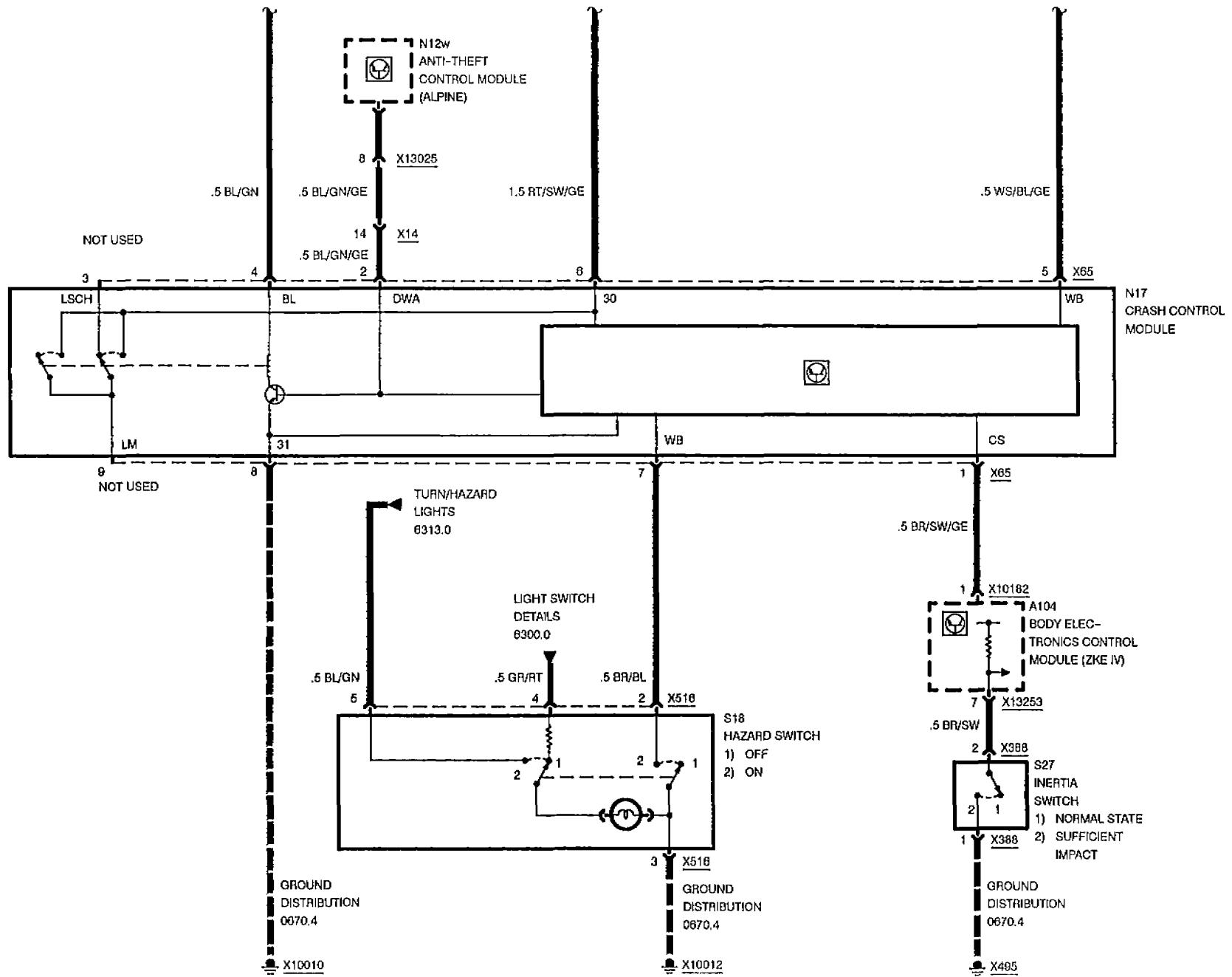


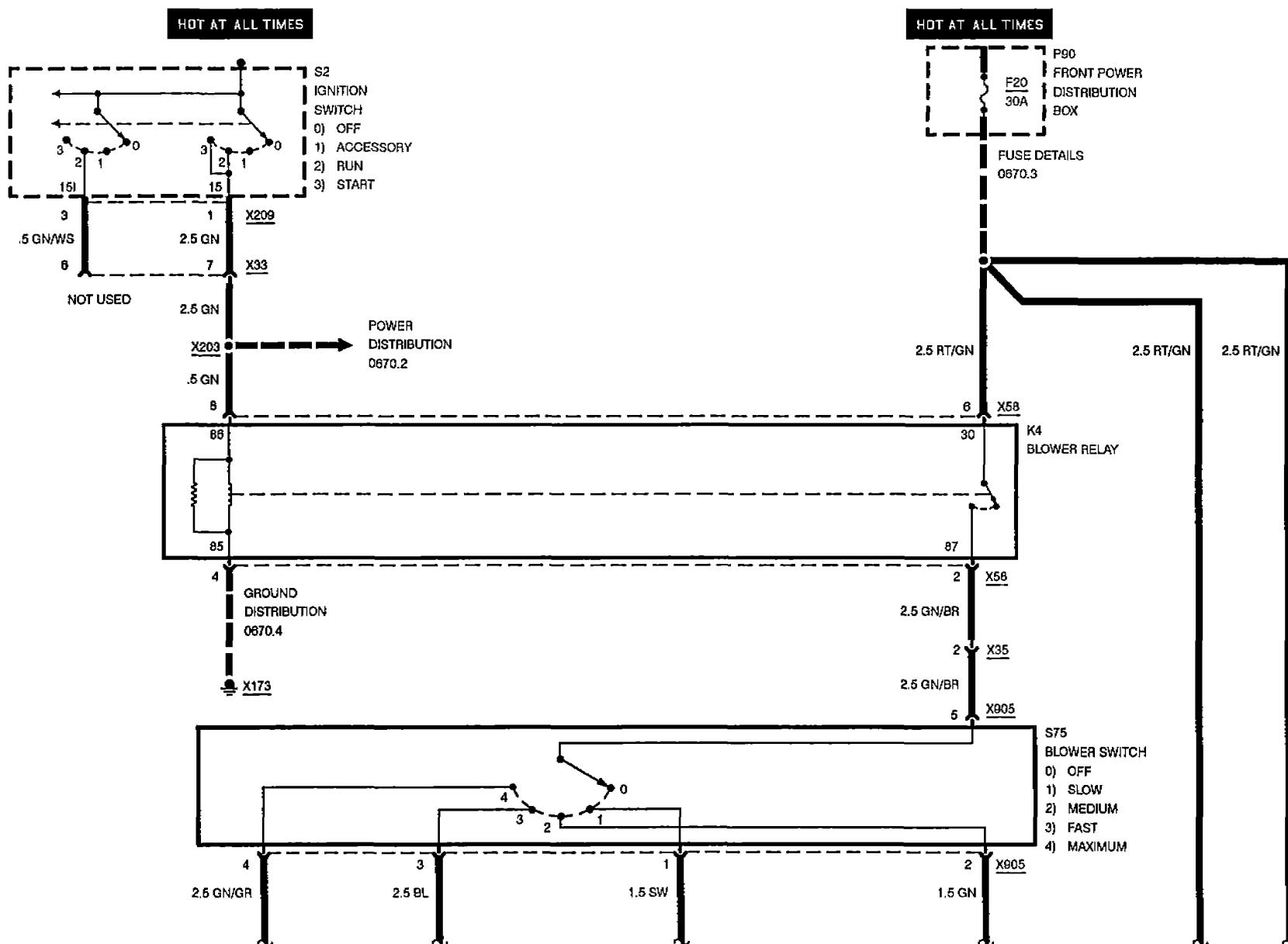
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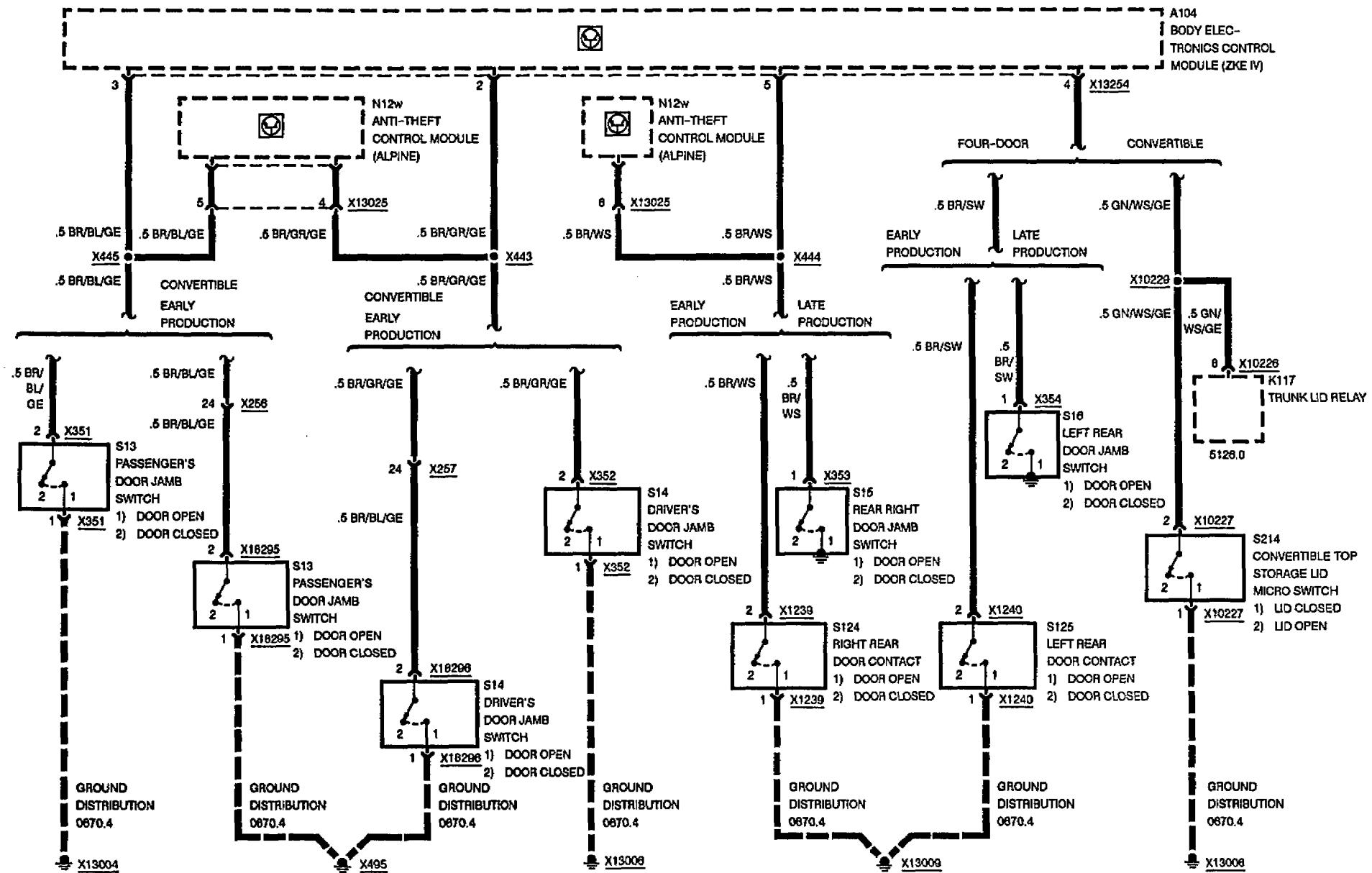


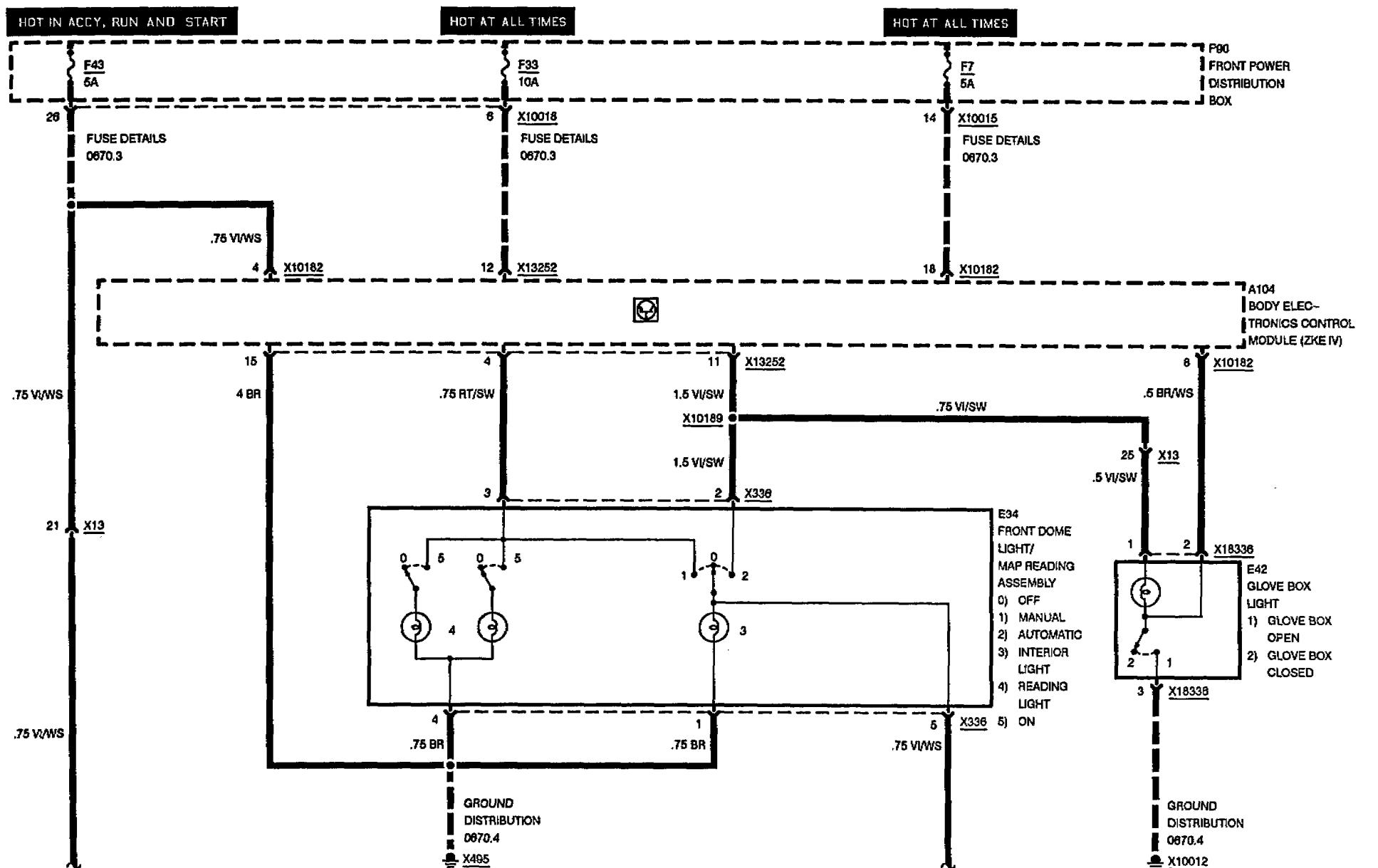






INTERIOR LIGHTS

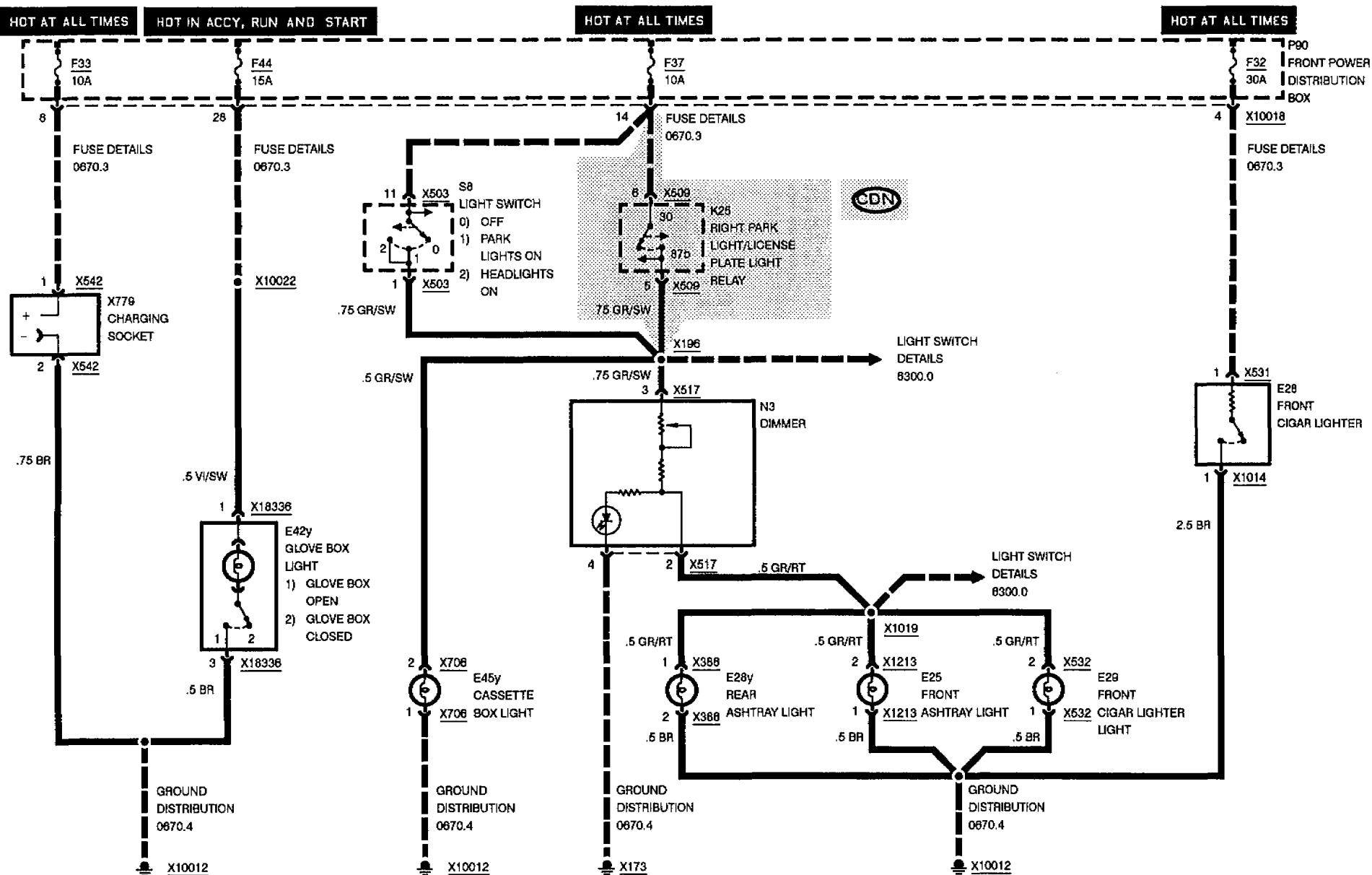






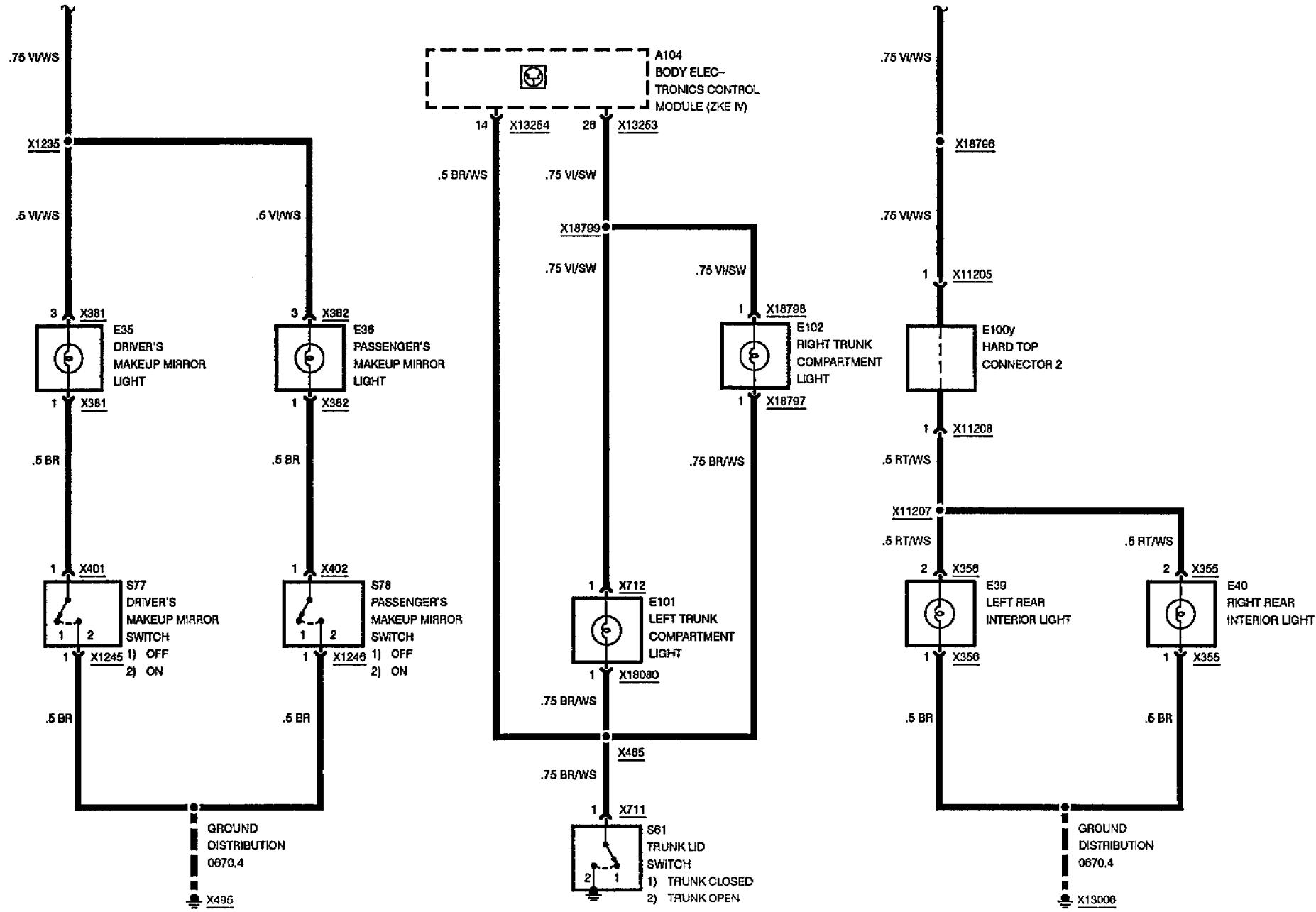
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER

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6332.1-00

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6350.0

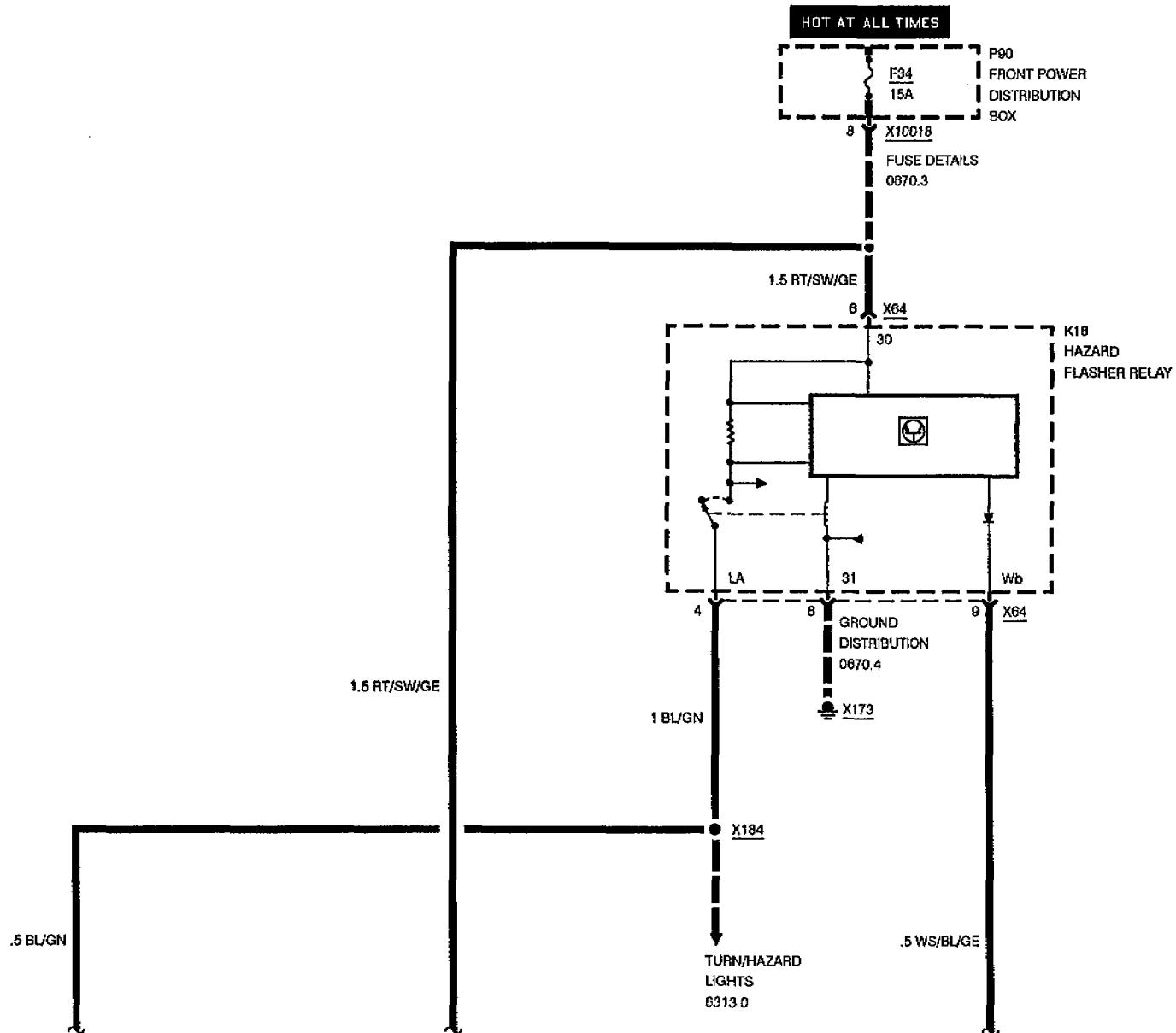


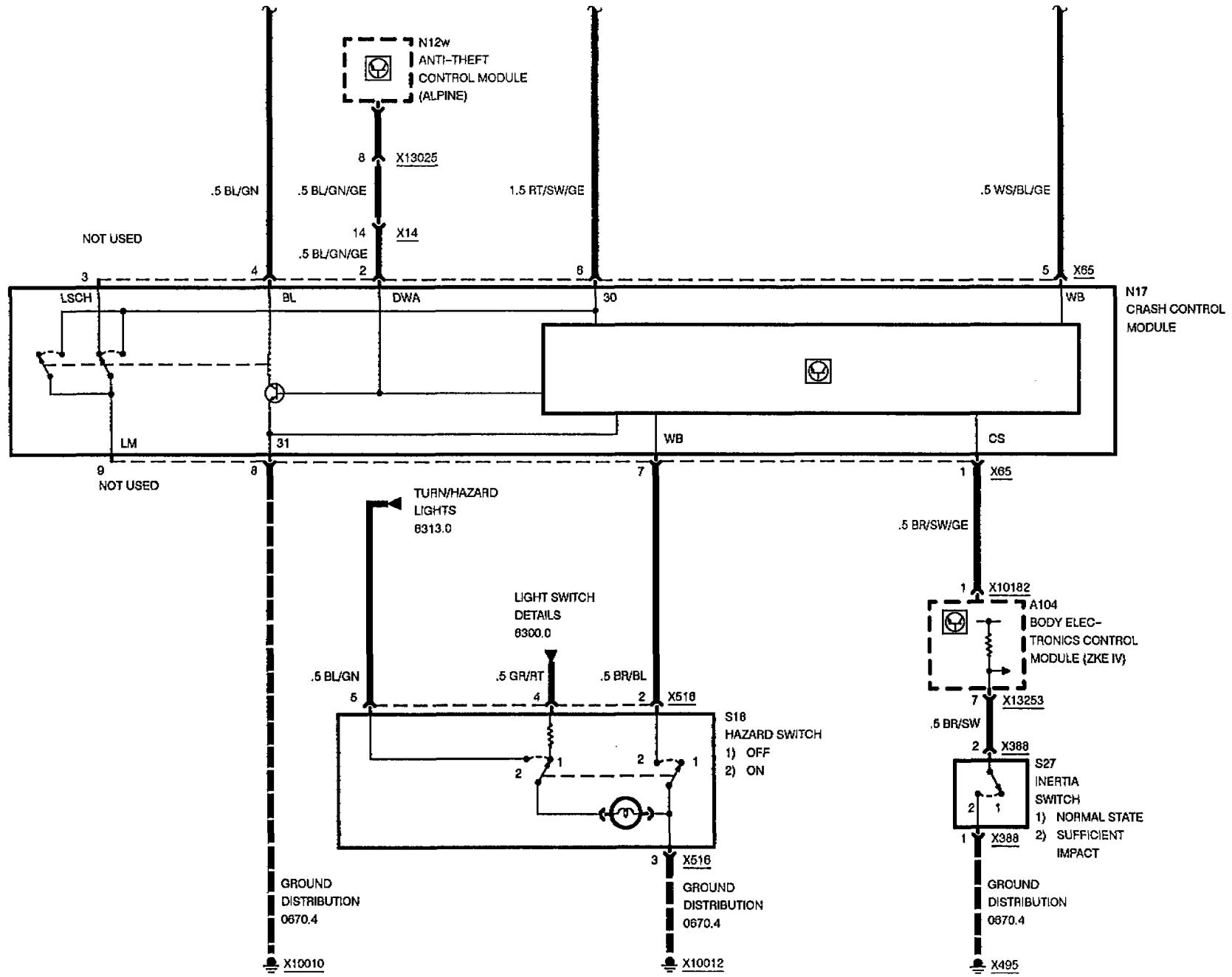
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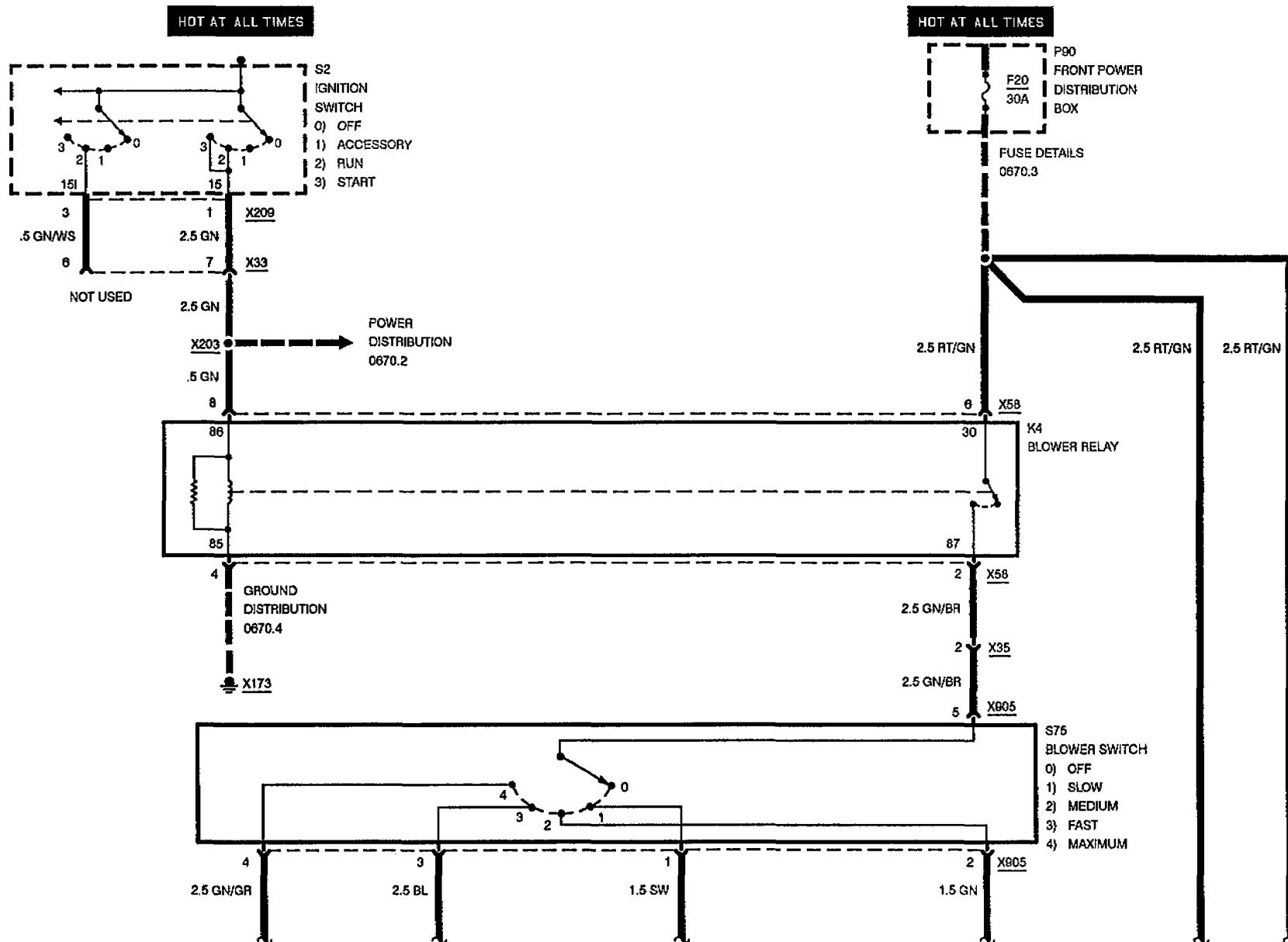
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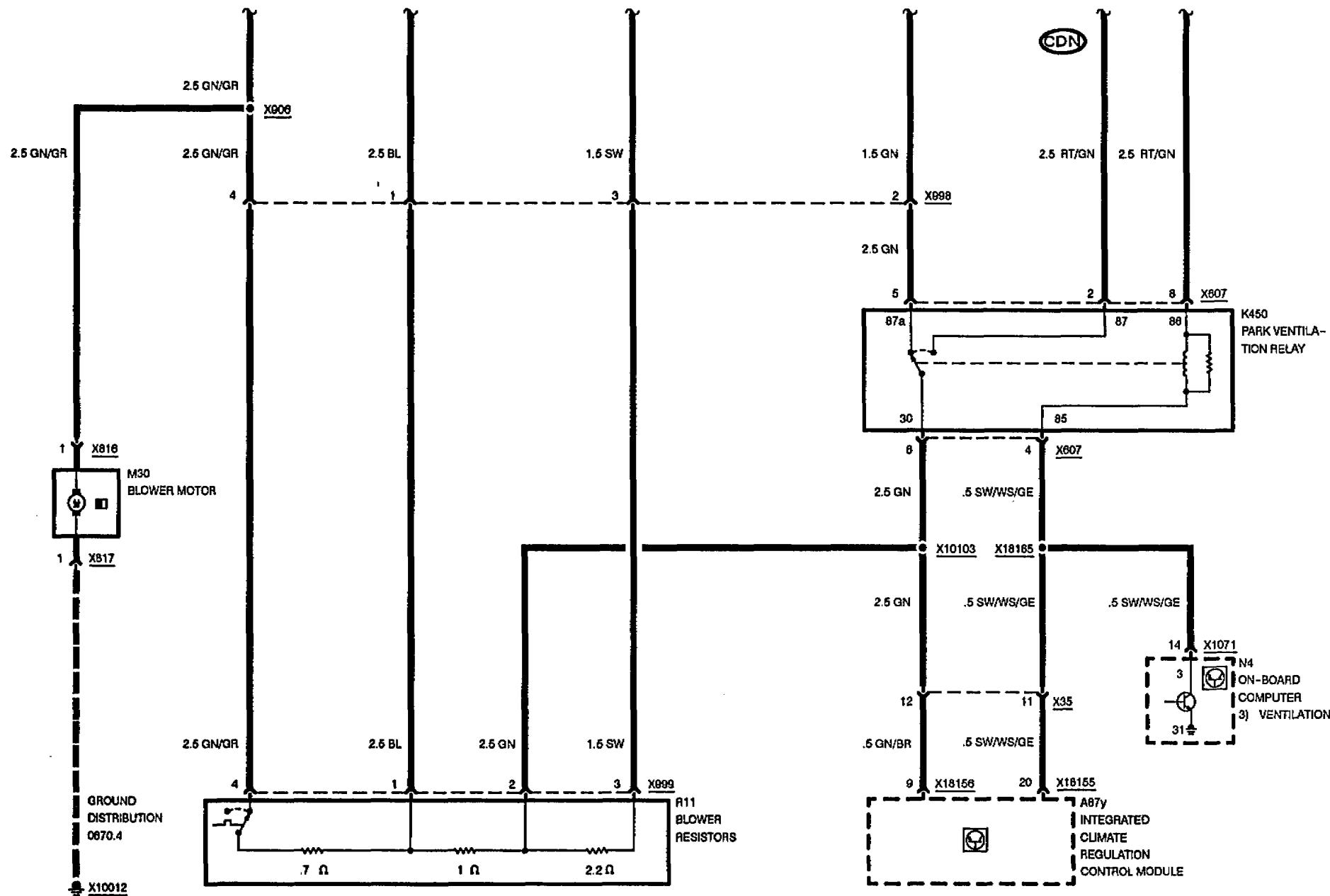
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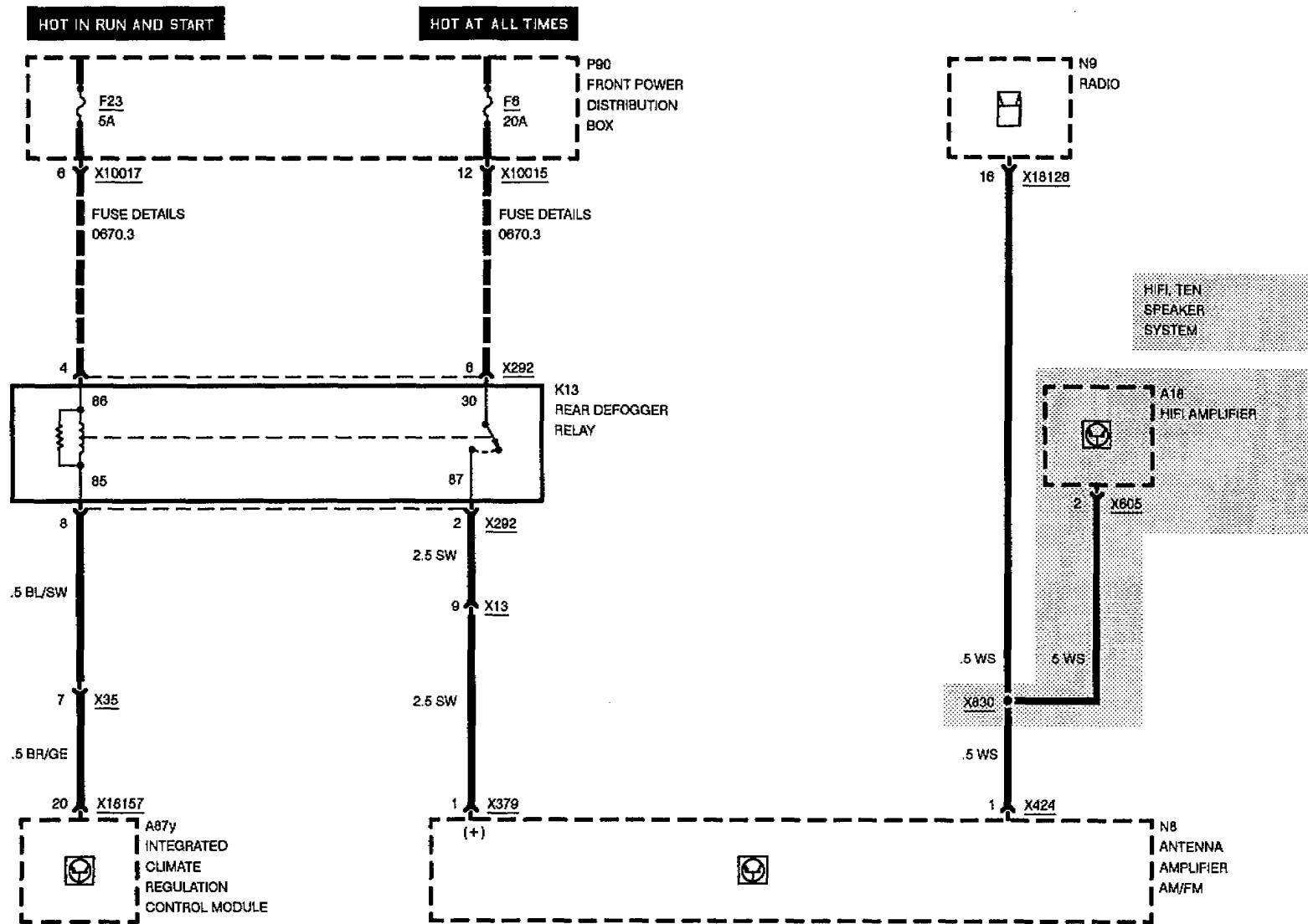
1994













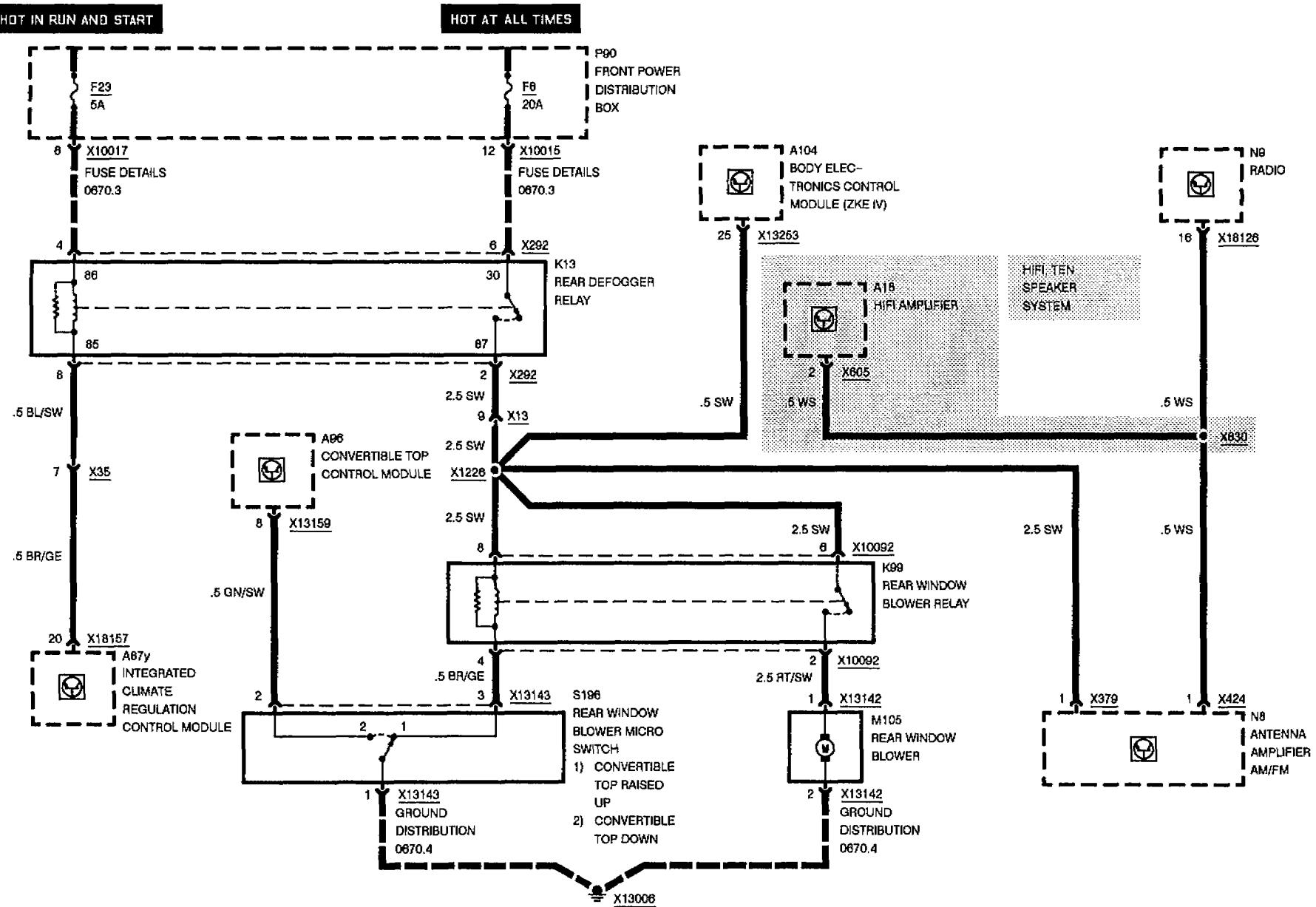
REAR WINDOW DEFOGGER

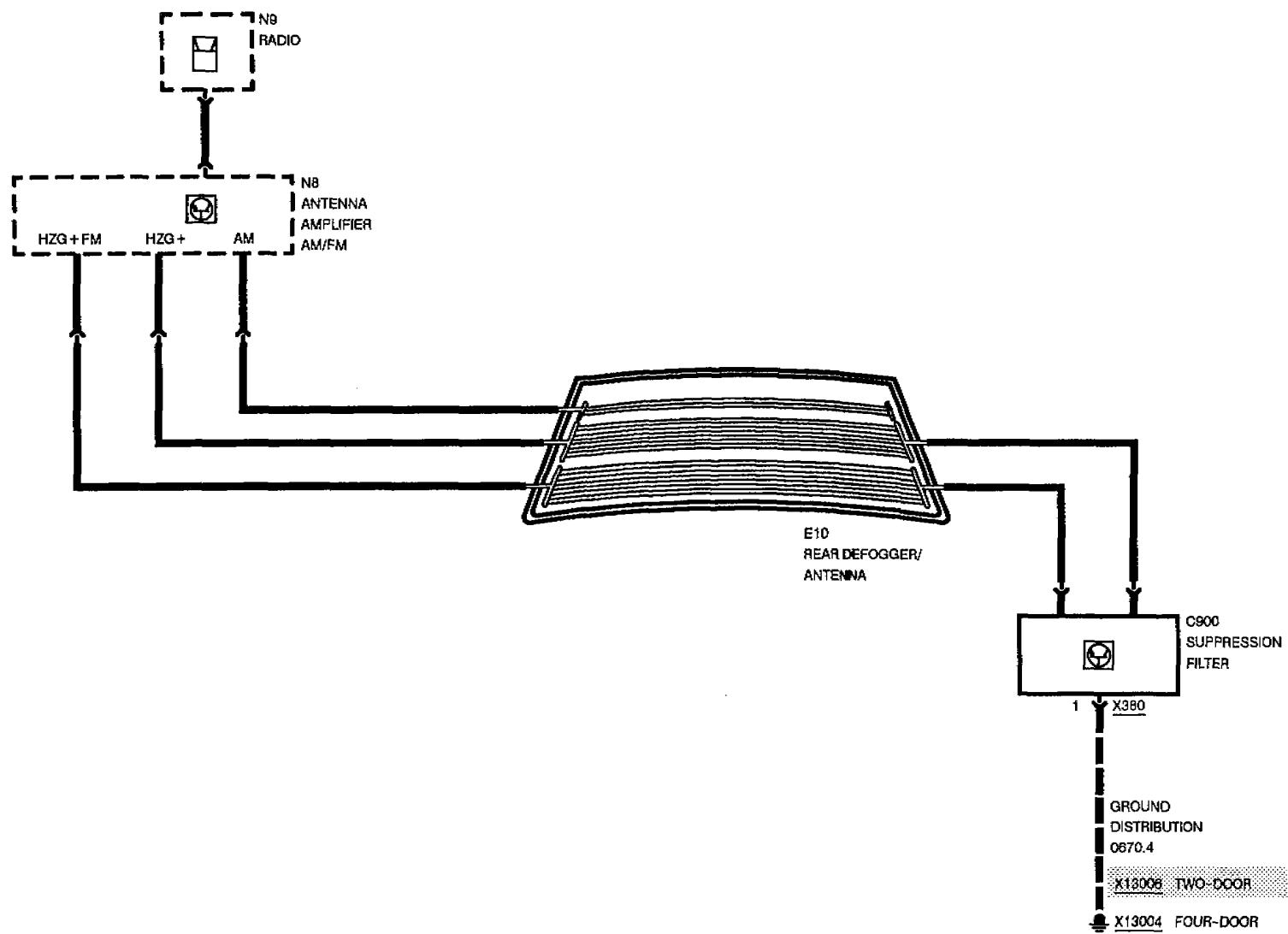
CONVERTIBLE

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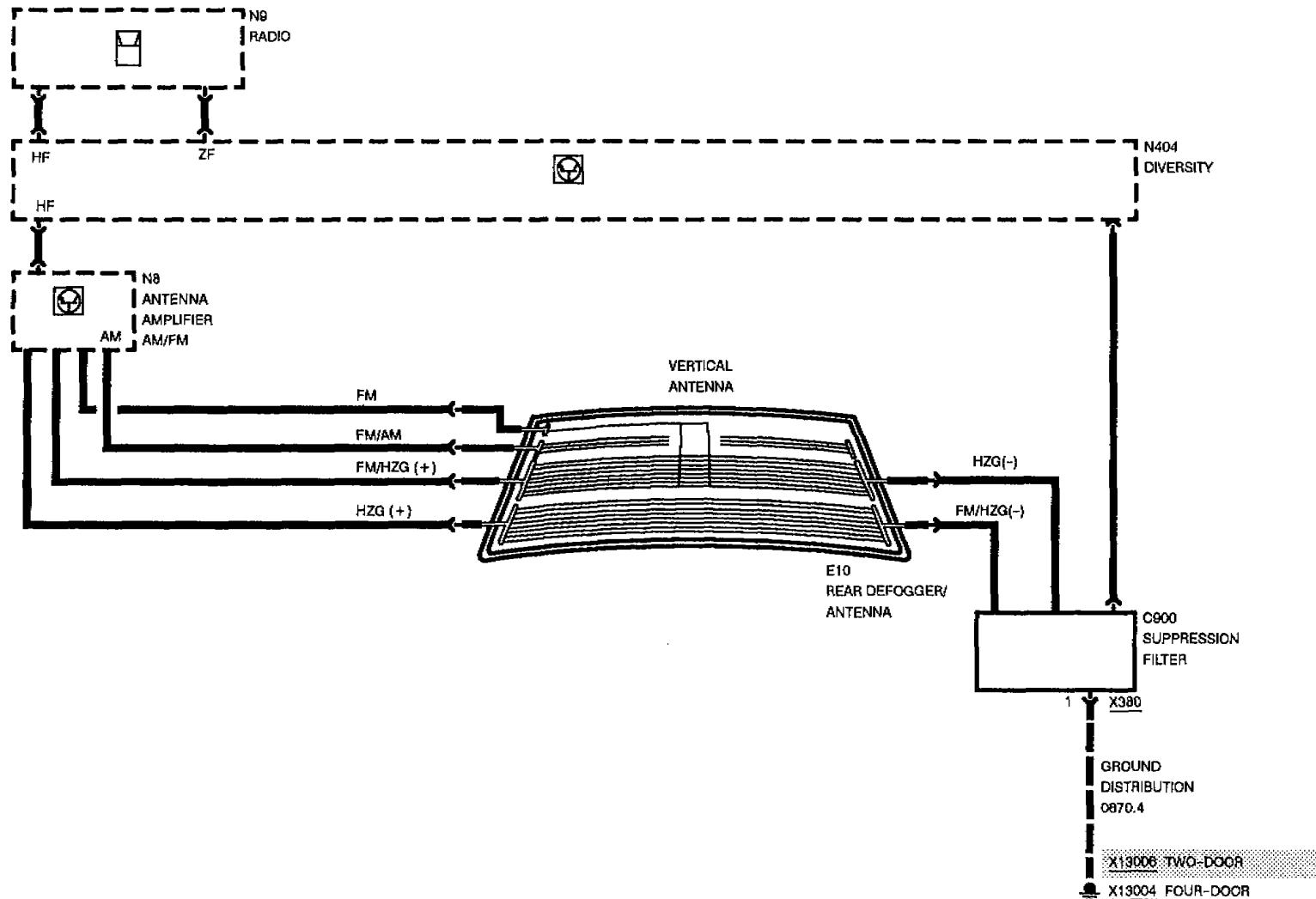
REAR WINDOW DEFOGGER

3-ANTENNA-DIVERSITY

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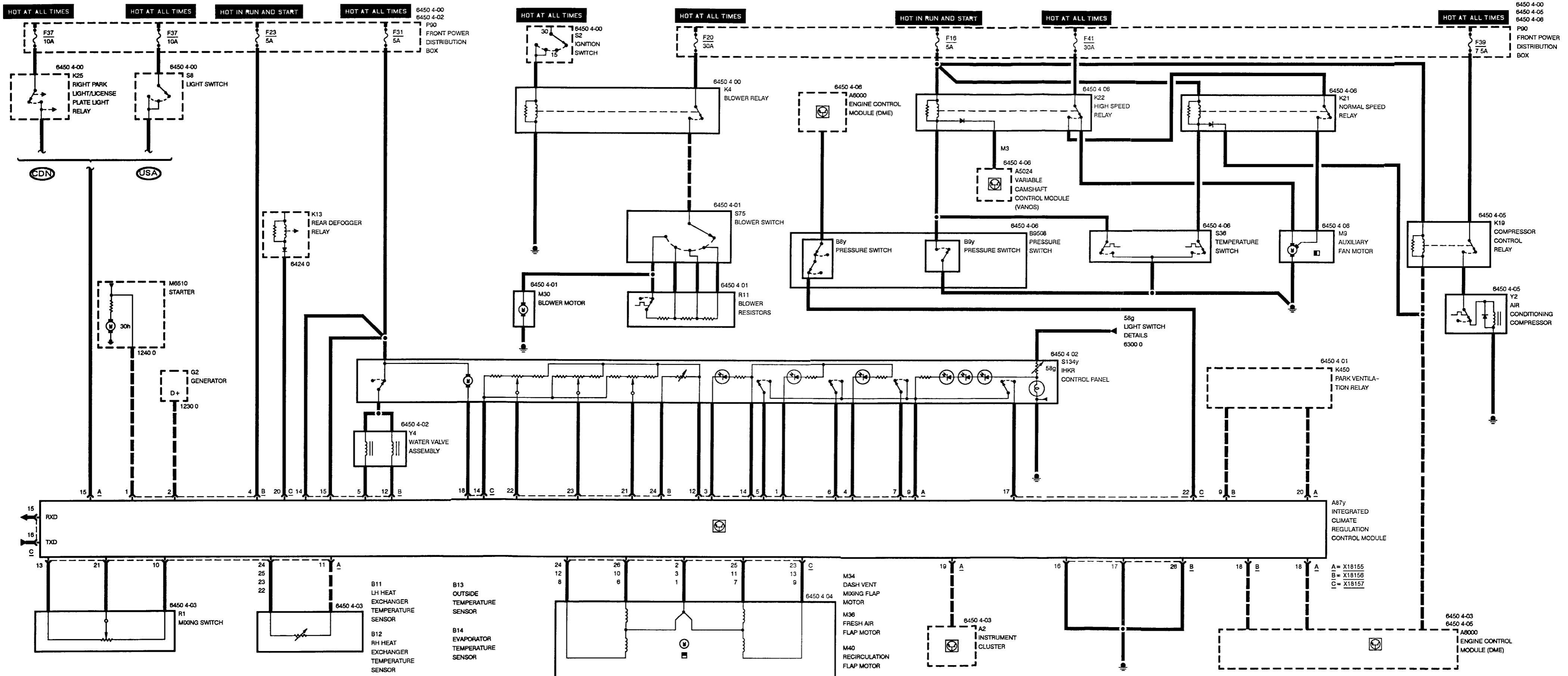
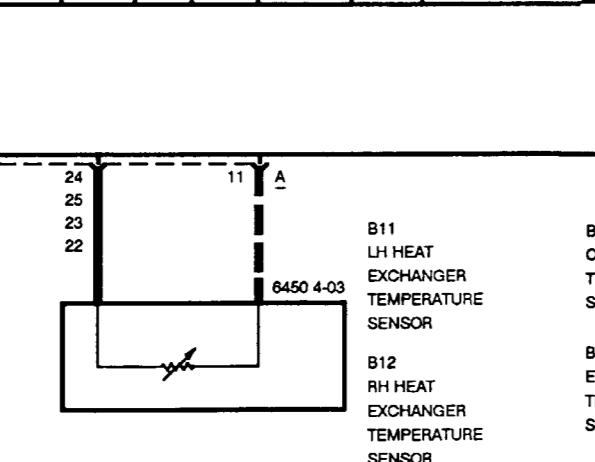
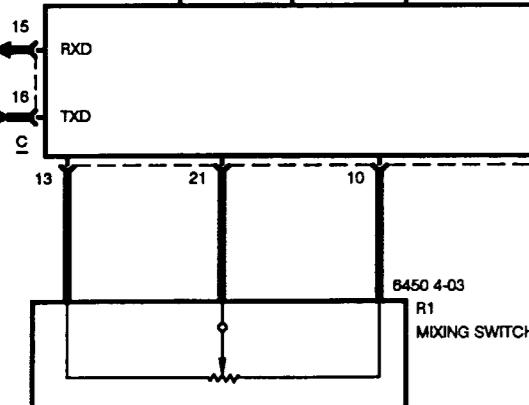
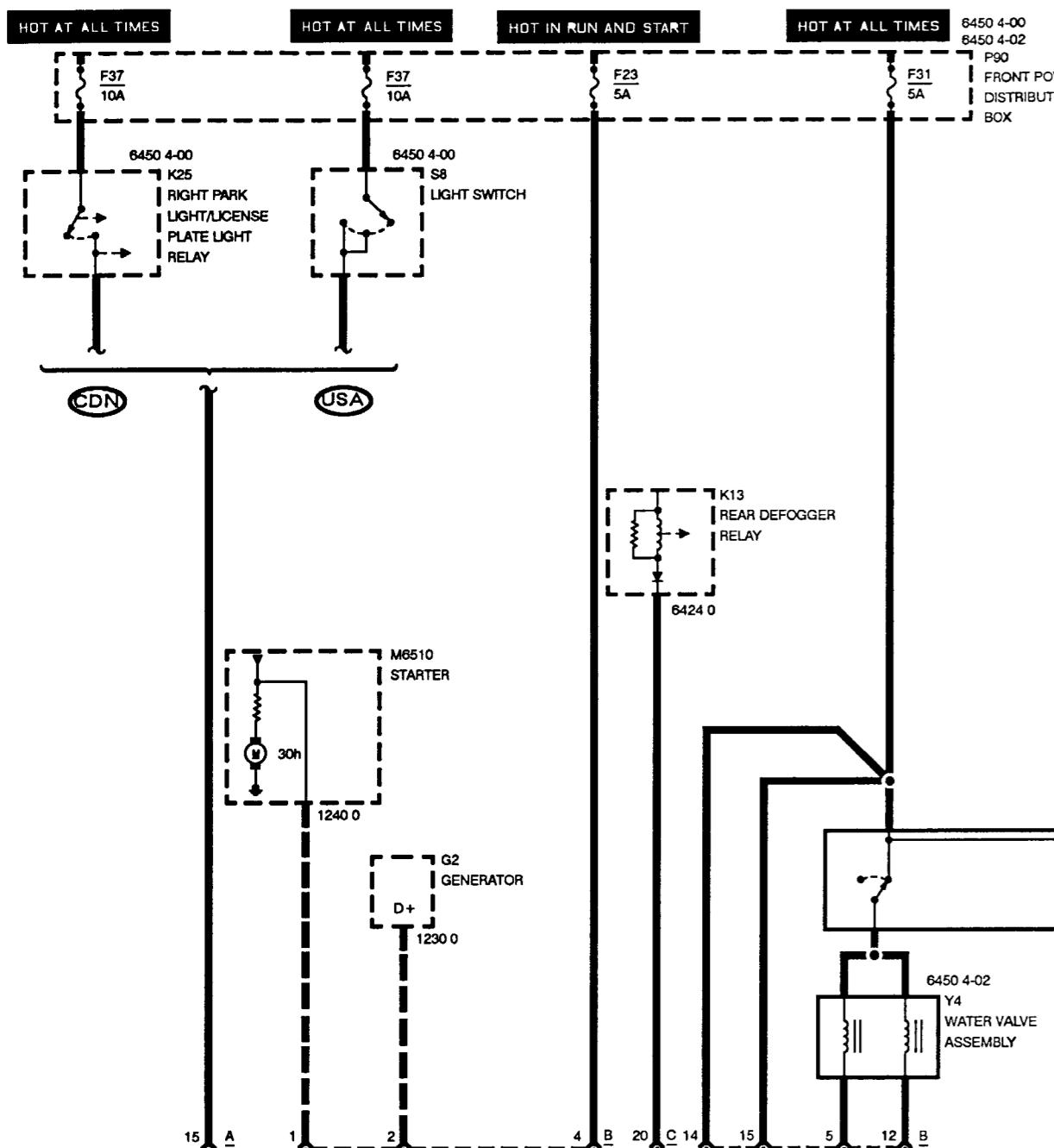
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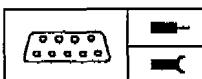
1994





— 6424.0-04 —





Pin Assignments

A = X18155 26 Pins, white

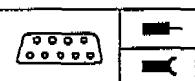
B = X18156 26 Pins, black

C = X18157 26 Pins, blue

X18155

Pin	Type	Description/Function	Connection
1	A	Function light, air recirculation	IHKR control panel
2		Not used	
3	A	Function light, rear window defogger	IHKR control panel
4	A	Function light, air conditioning	IHKR control panel
5	E	Rear window defogger switch	IHKR control panel
6	E	Air circulation switch	IHKR control panel
7	E	Air conditioning switch	IHKR control panel
8		Not used	
9	A	Ground for rear window defogger switch, air recirculation switch, air conditioning switch, electric flaps switch, and function lights	IHKR control panel
10	A	Ground for mixing actuator	Mixing actuator
11	A	Ground for temperature sensors	Various temperature sensors
12	A	Ground for rotary switches and interior temperature sensor	IHKR control panel
13	A	Voltage supply for mixing actuator	Mixing actuator
14	E	Voltage supply for function lights	IHKR control panel
15 (USA)	E	Terminal 58K	Light switch
(CDN)	E	Terminal 58K	Right park light/license plate light relay, terminal 87
16		Not used	
17		Not used	
18	E	Crankshaft position/RPM signal TD	Engine control module (DME)
19	A	Vehicle speed	Instrument cluster
20	E	Independent ventilation	Park heating/ventilation relay
21	E	Nominal mixing value	Mixing actuator
22	A/E	Evaporator temperature	Evaporator temperature sensor

E = Input, A = Output, M = Ground



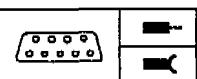
Pin Assignments

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

X18156

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

E = Input, A = Output, M = Ground



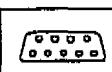
Pin Assignments

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

X18157

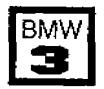
Pin	Type	Description/Function	Connection
1	A	Voltage supply for recirculation flap motor	Recirculation flap motor
2	A	Voltage supply for dash vent mixing flap motor	Dash vent mixing flap motor
3	A	Voltage supply for fresh air flap motor	Fresh air flap motor
4		Not used	
5		Not used	
6	A	Recirculation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

E = Input, A = Output, M = Ground



Pin Assignments

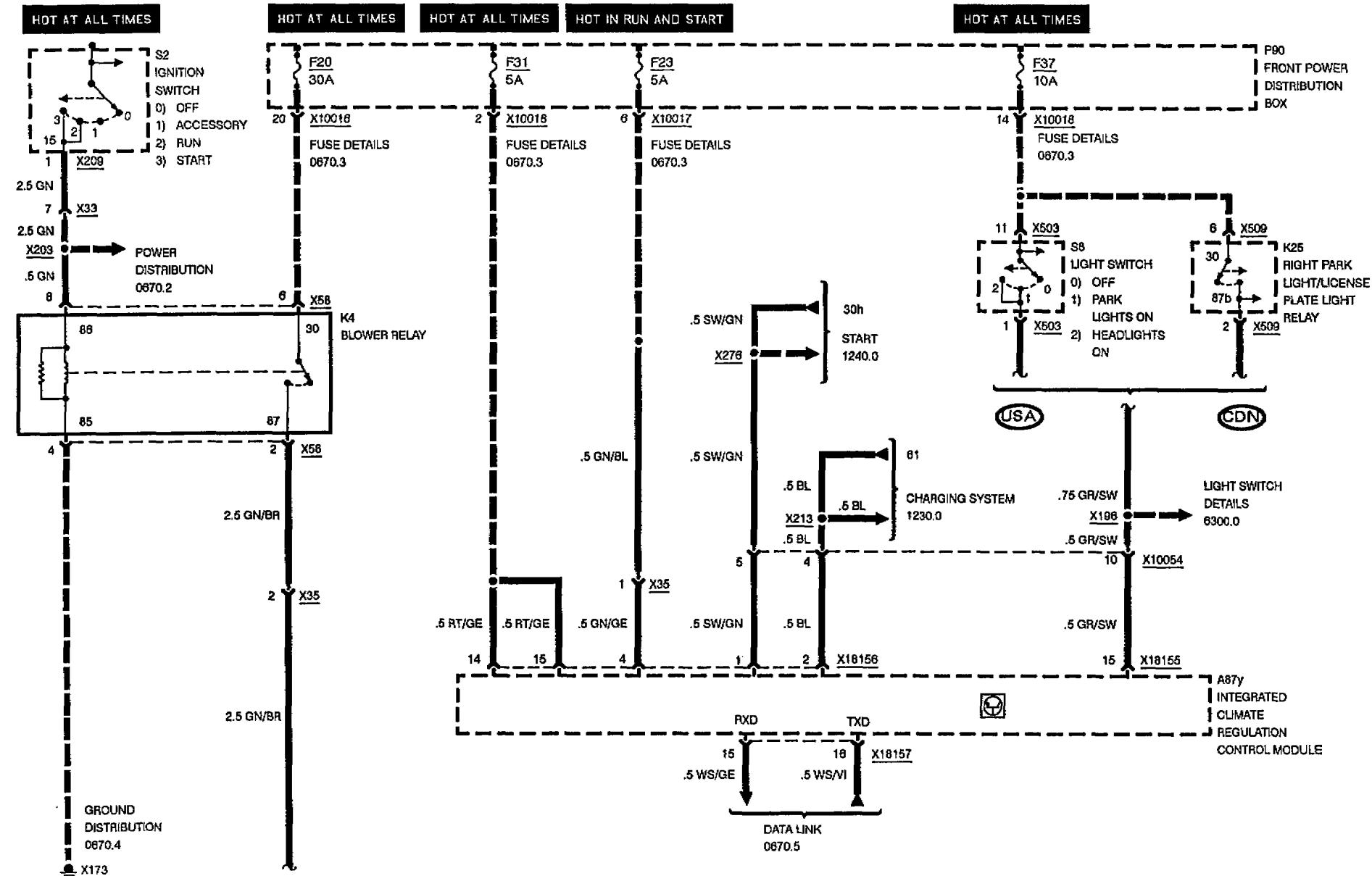
Pin	Type	Description/Function	Connection
25	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
26	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

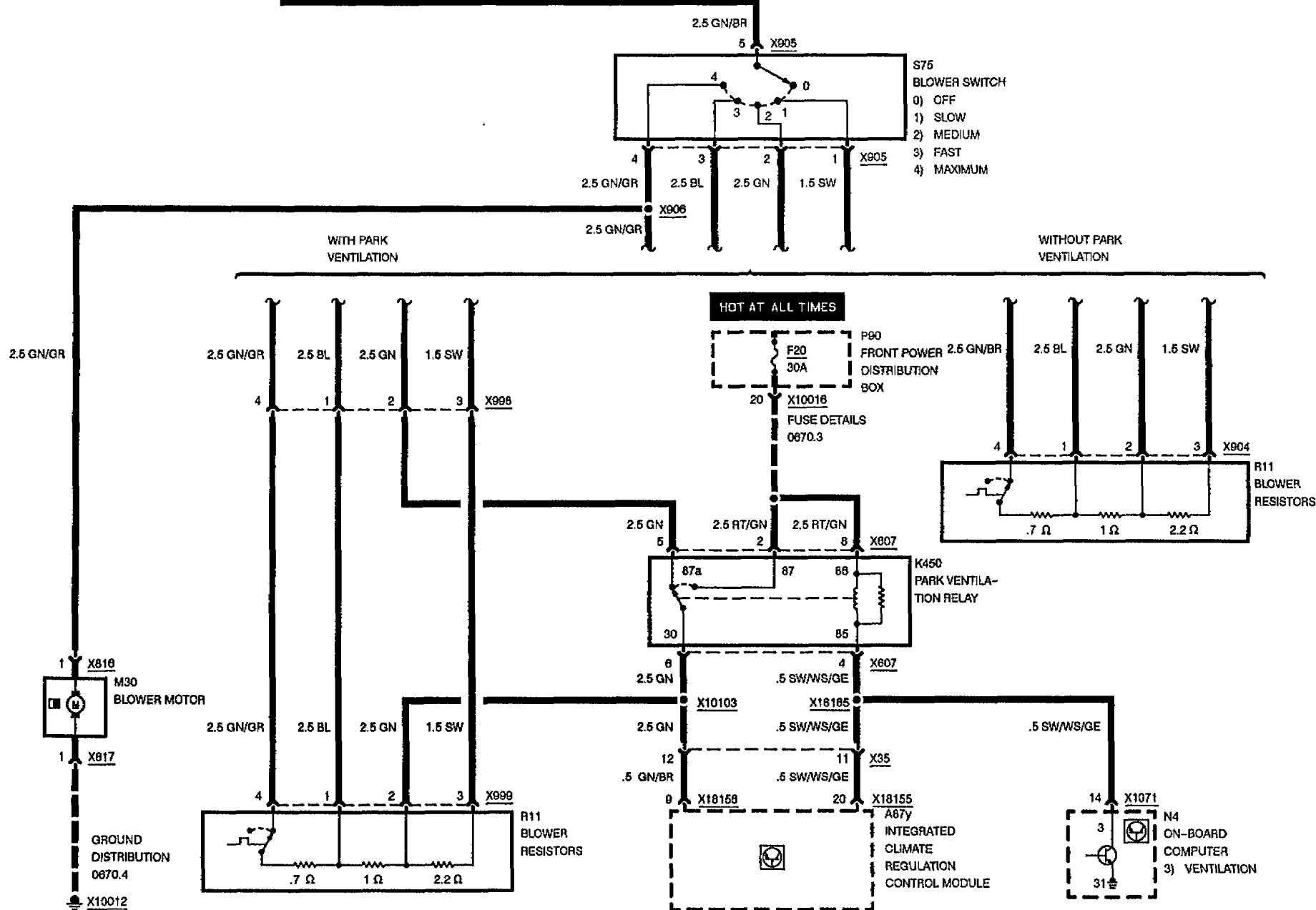


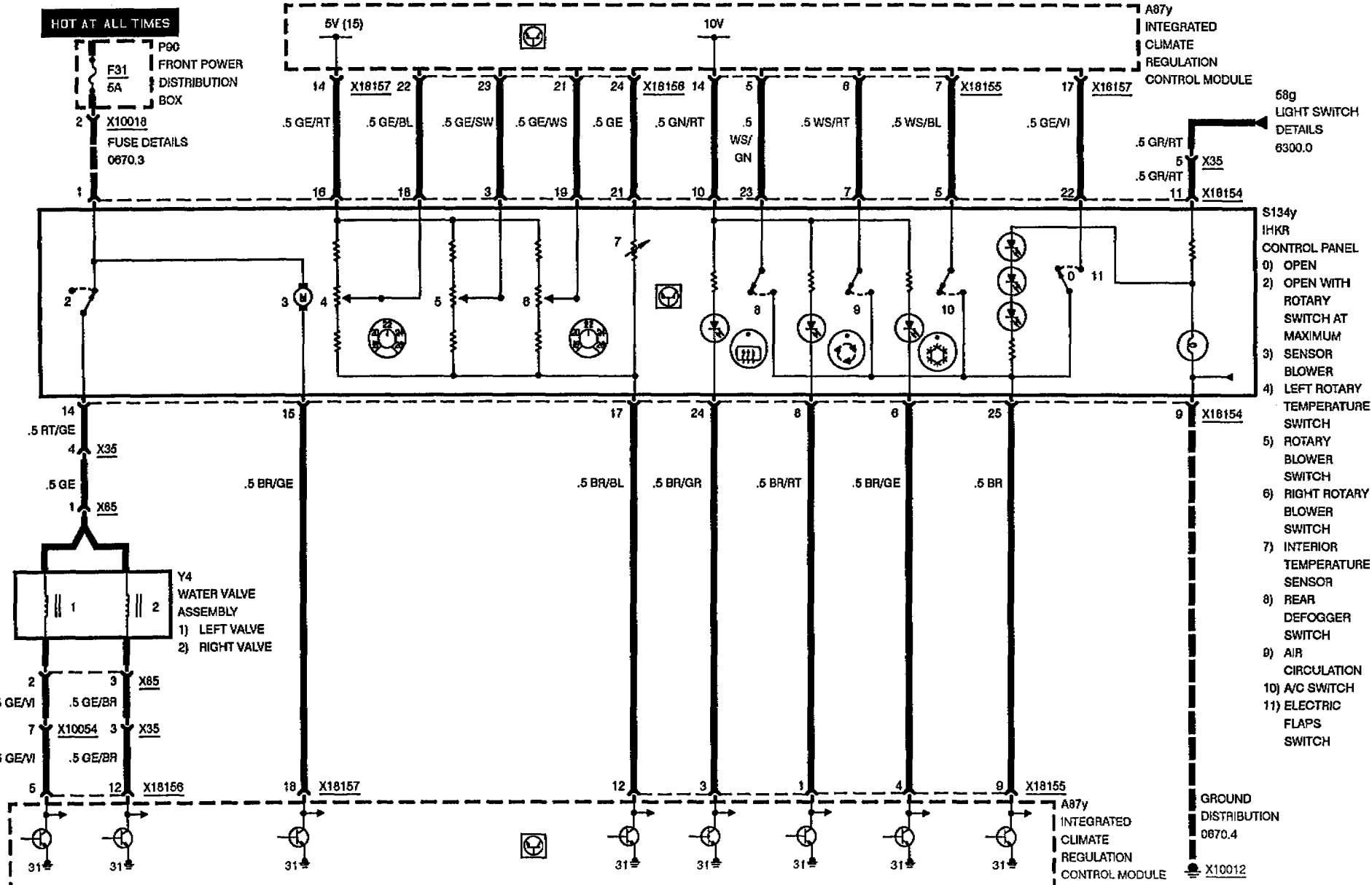
6450.4

INTEGRATED CLIMATE REGULATION (IHKR E36)

POWER, BLOWER CONTROLS



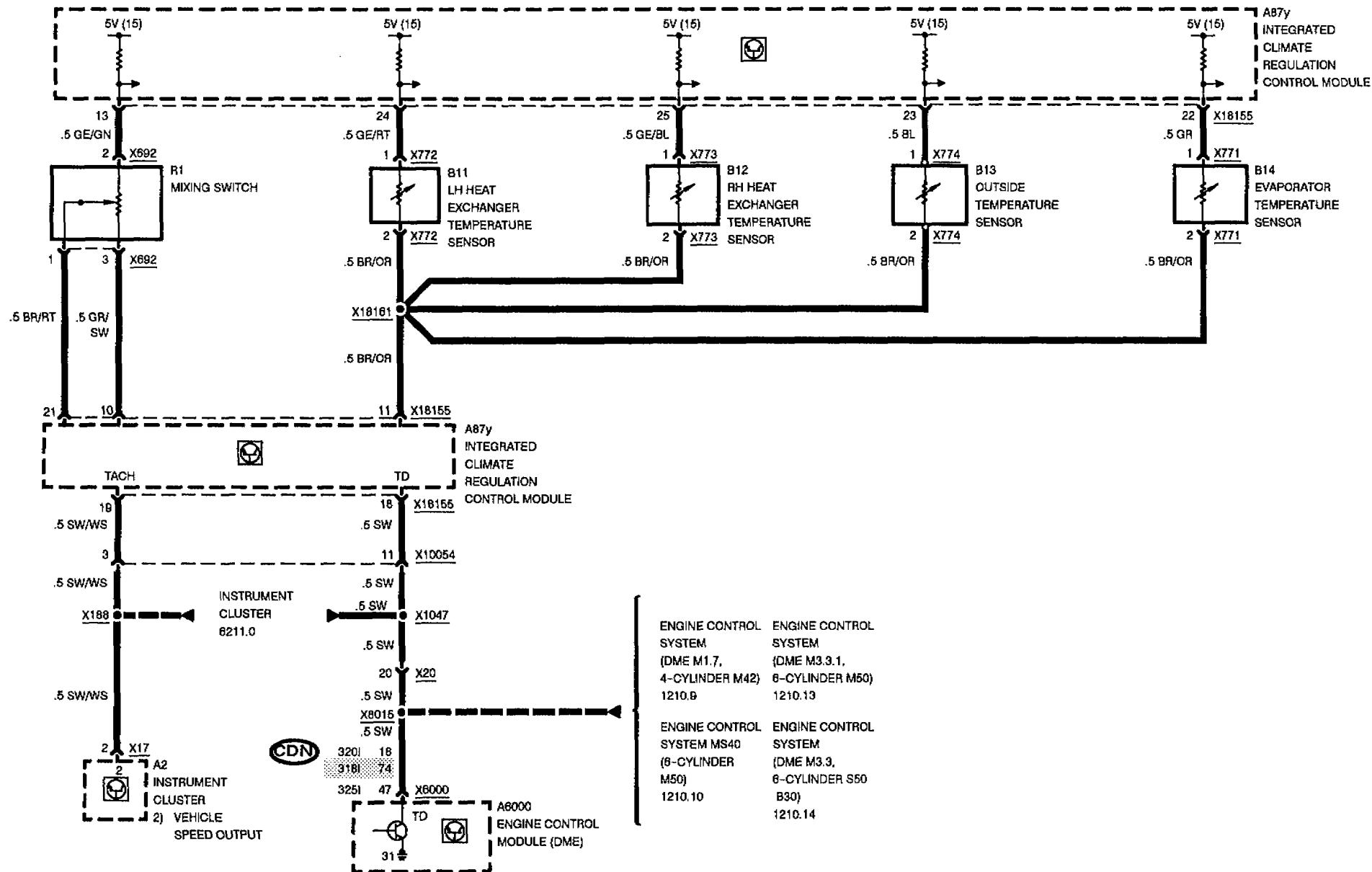


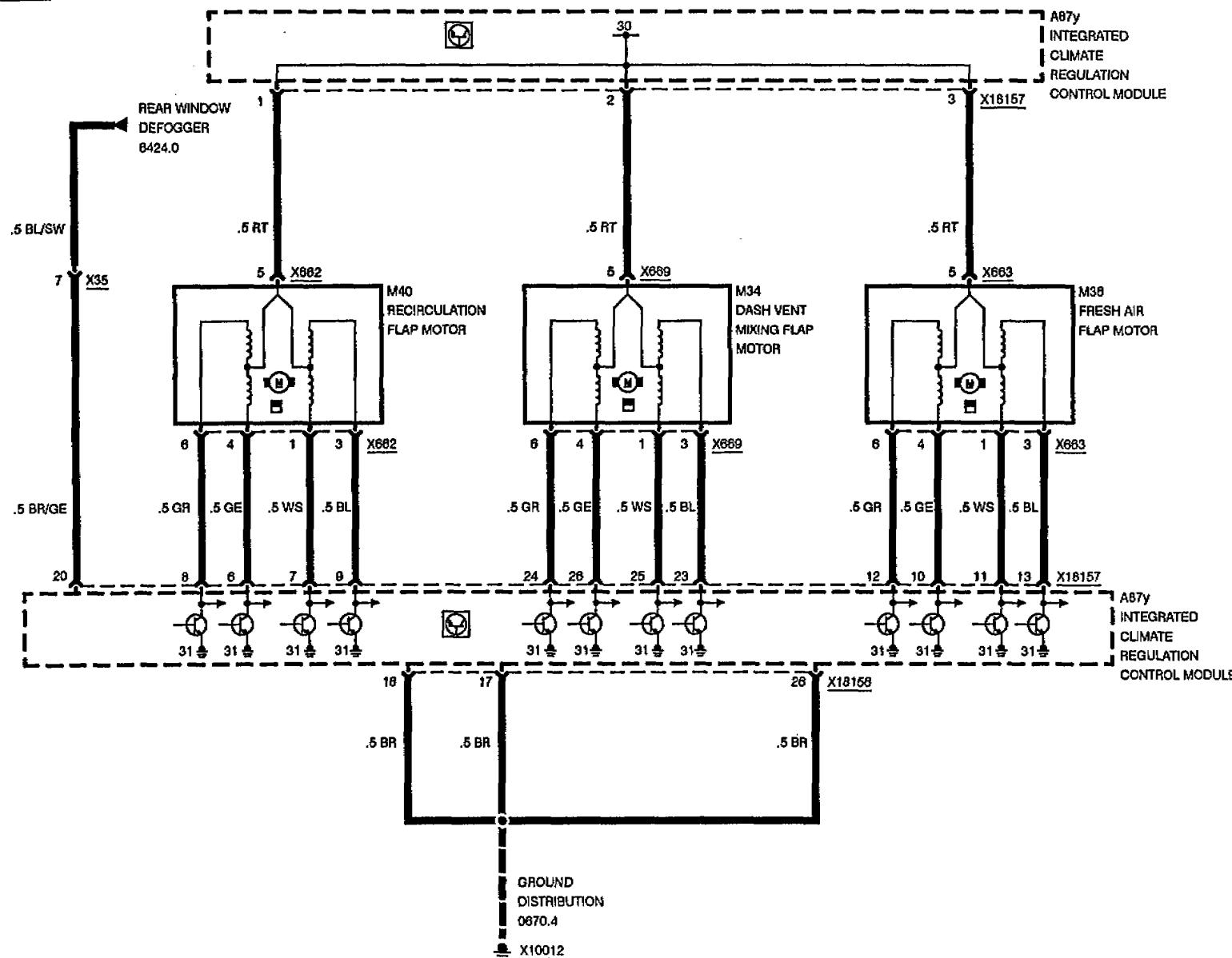




INTEGRATED CLIMATE REGULATION (IHKR E36)

TEMPERATURE CONTROL

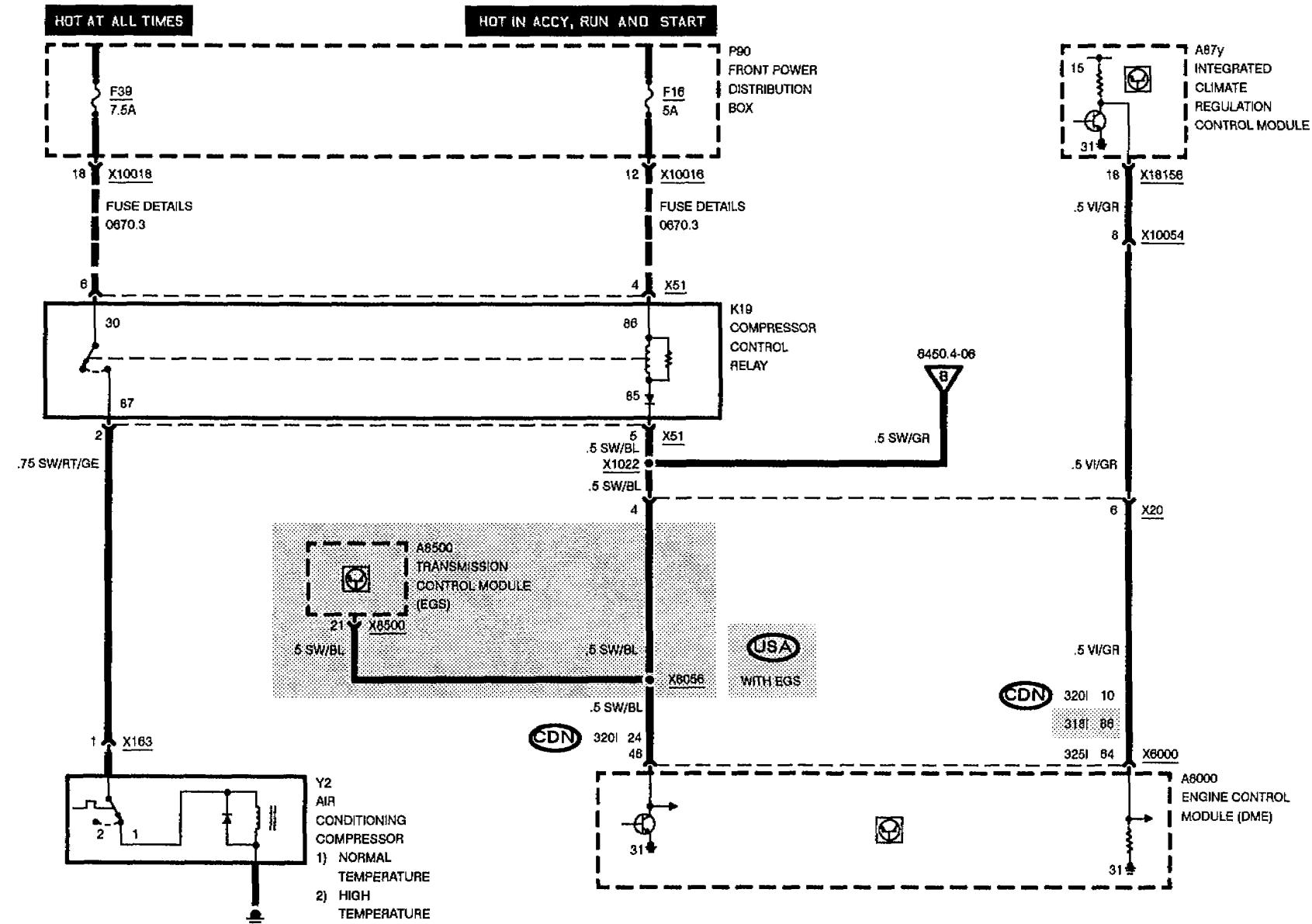


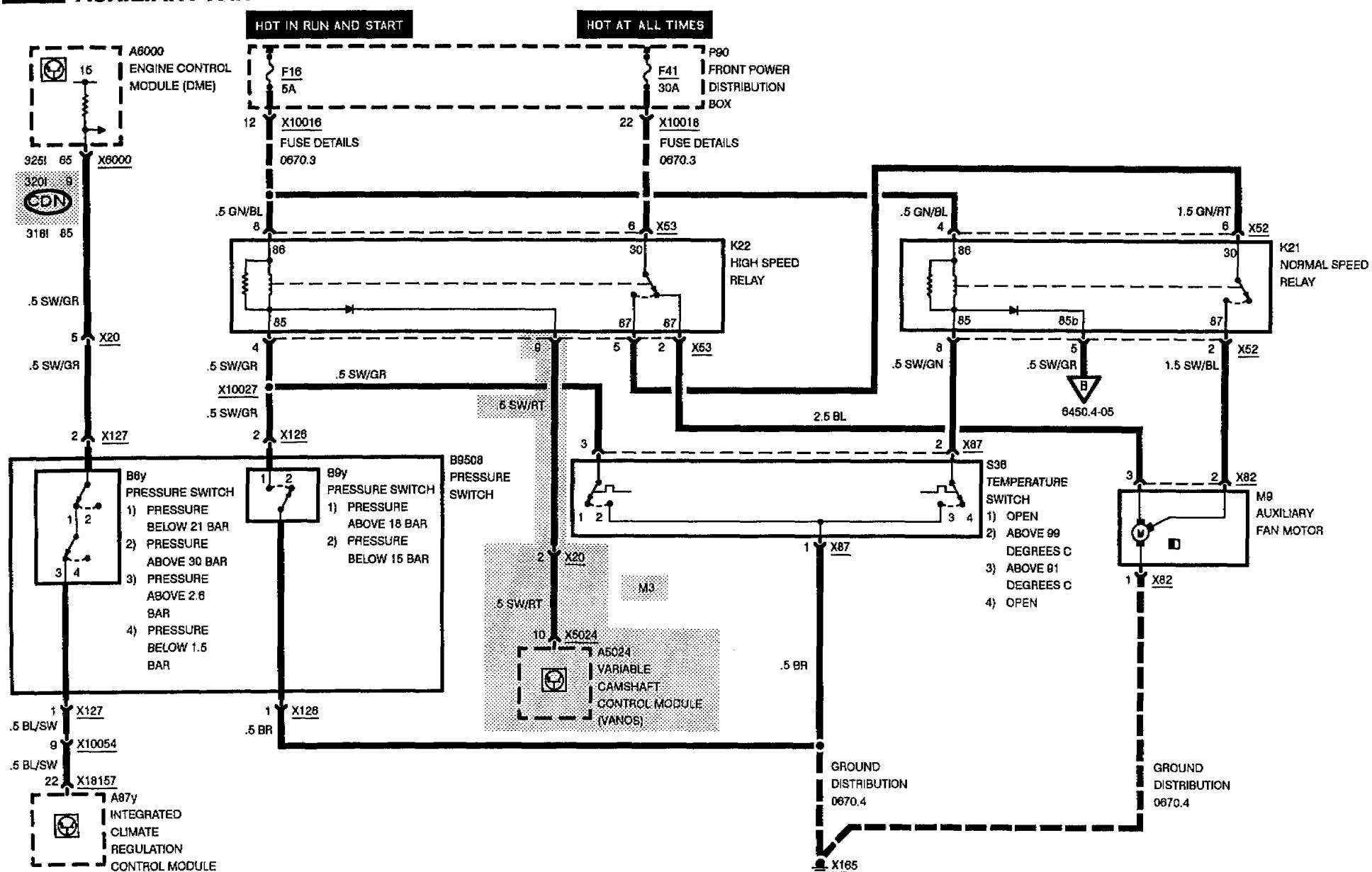




INTEGRATED CLIMATE REGULATION (IHKR E36)

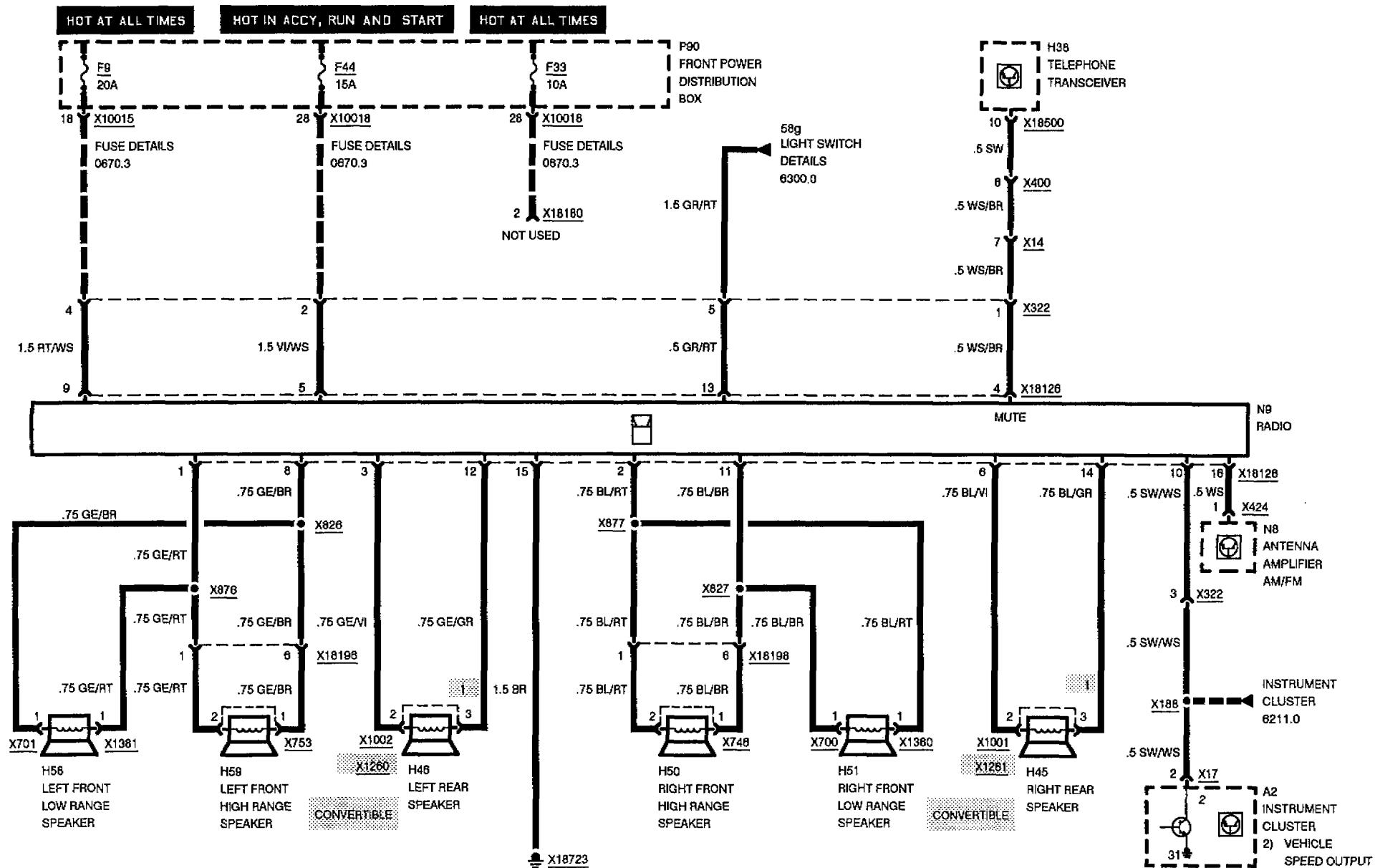
COMPRESSOR CONTROLS





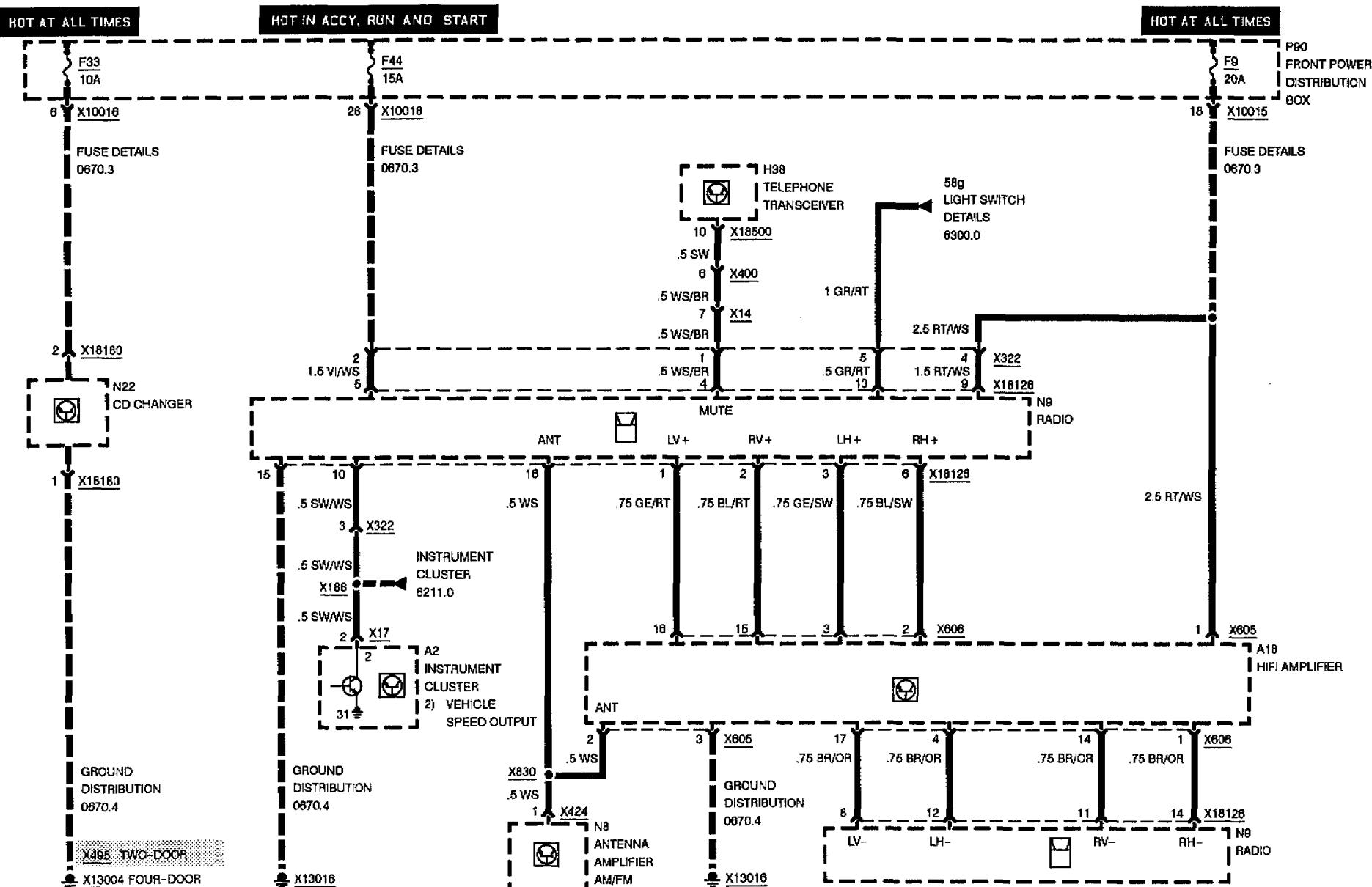


6510.0





6510.1



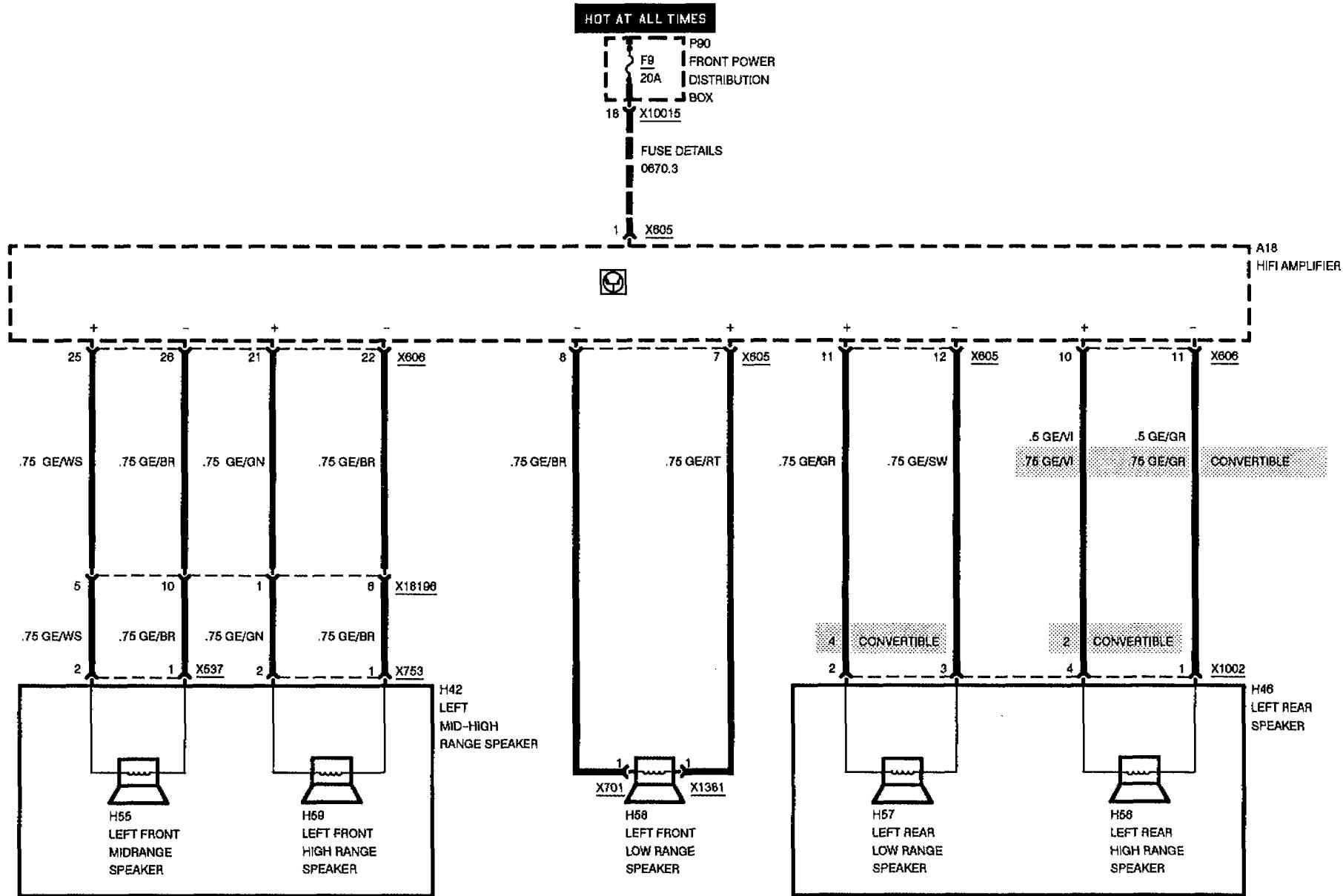


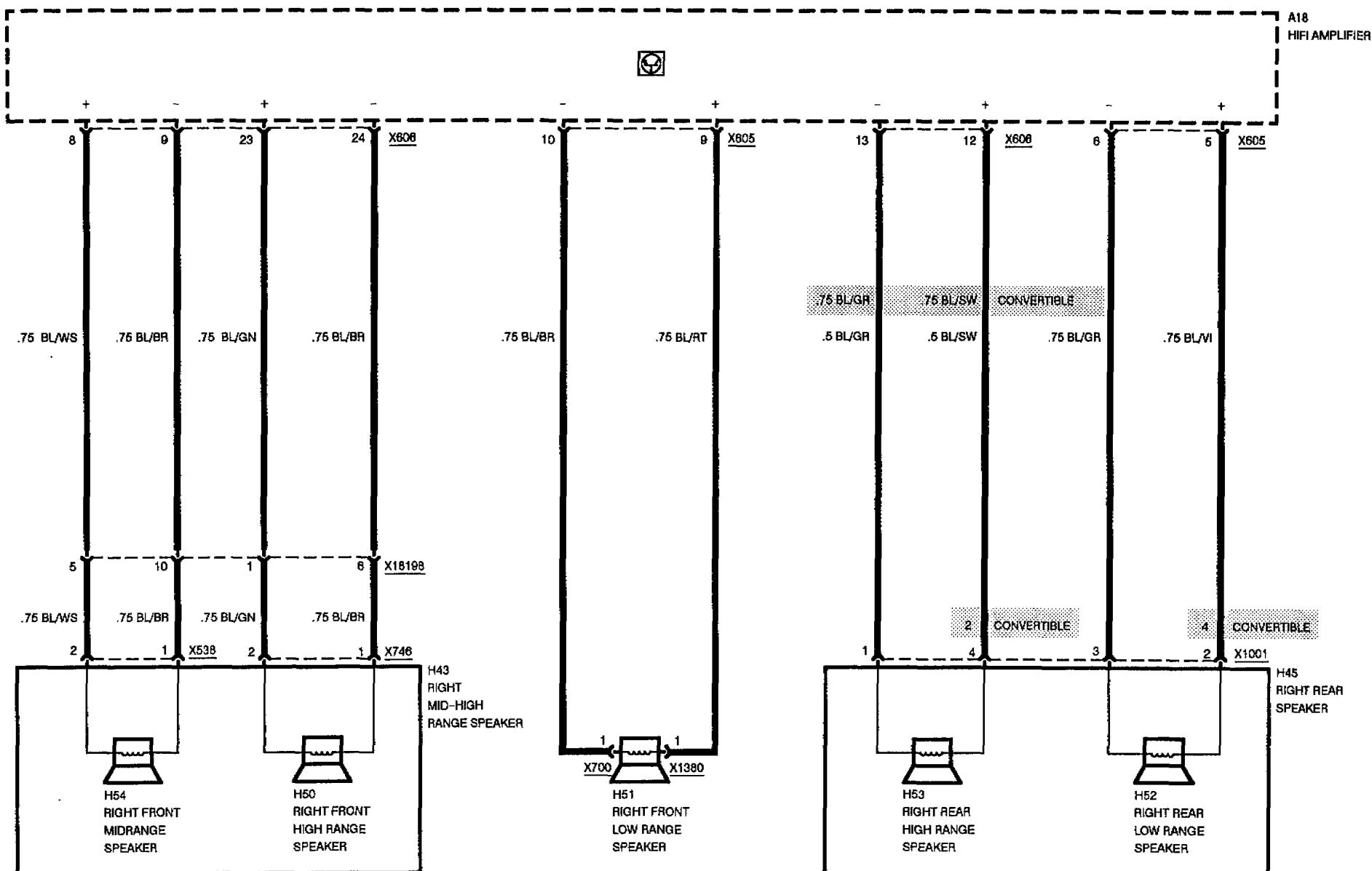
RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

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6510.1-01

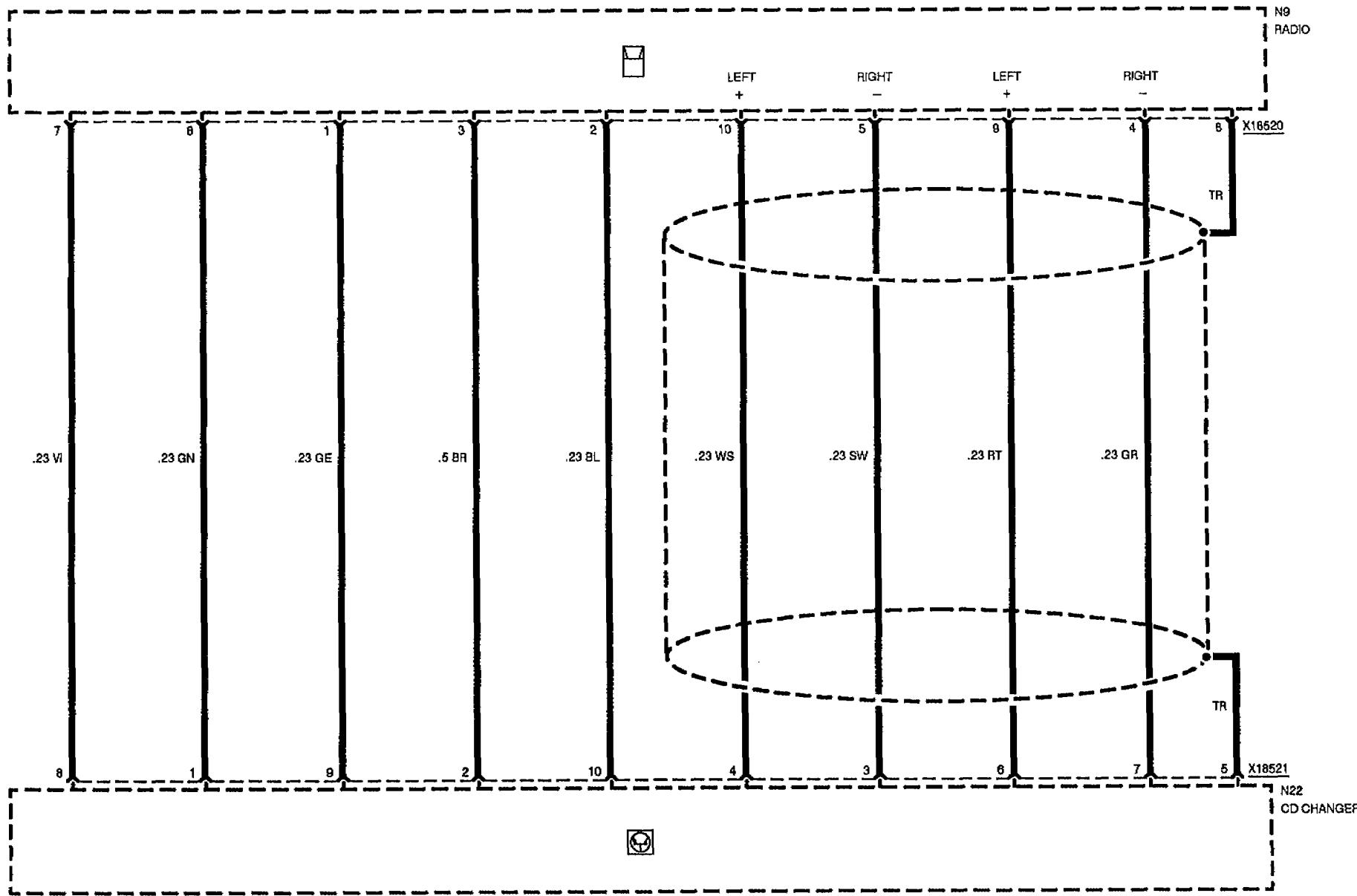






RADIO/HIFI

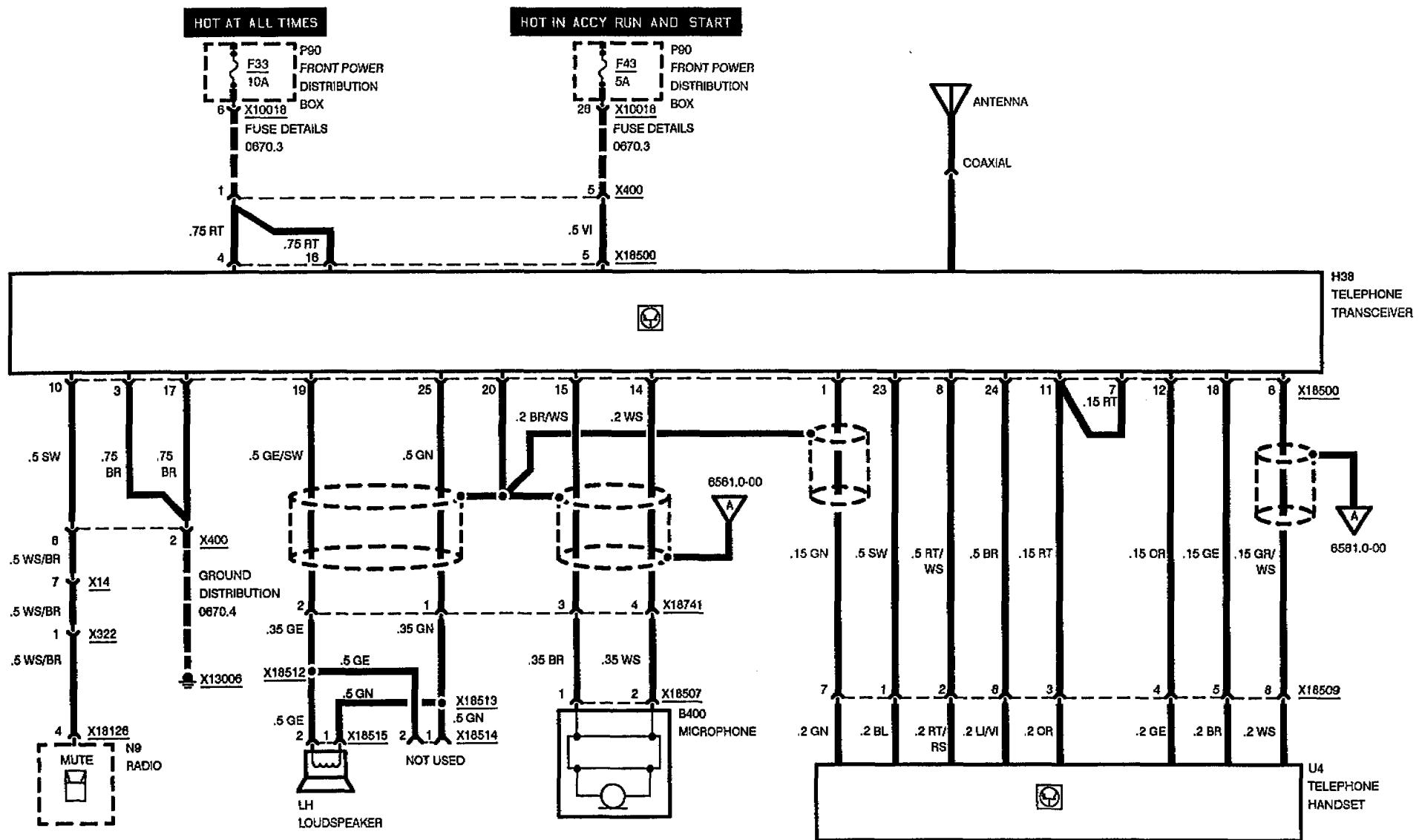
HIFI, 10-SPEAKER SYSTEM



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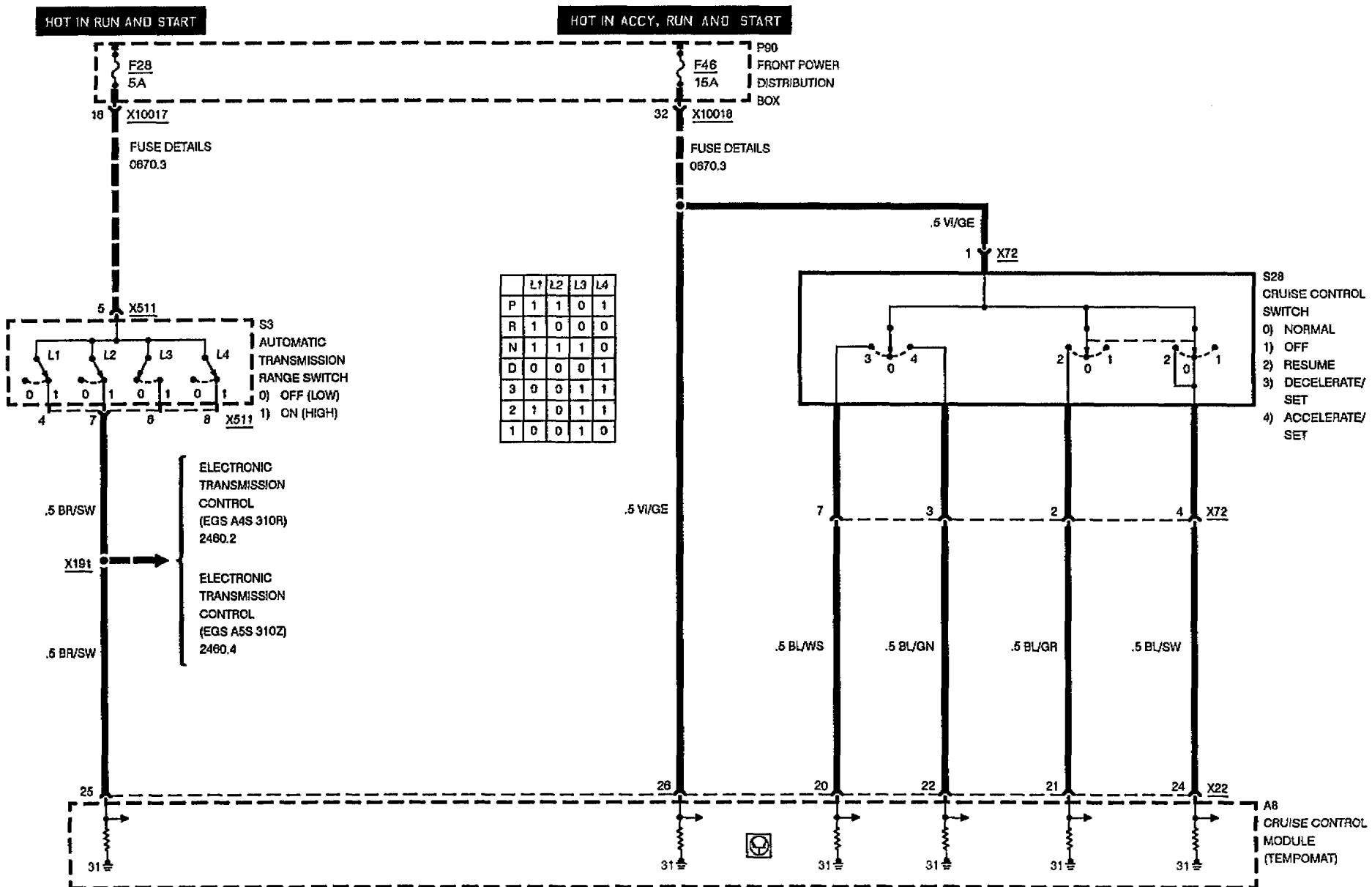
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6571.0

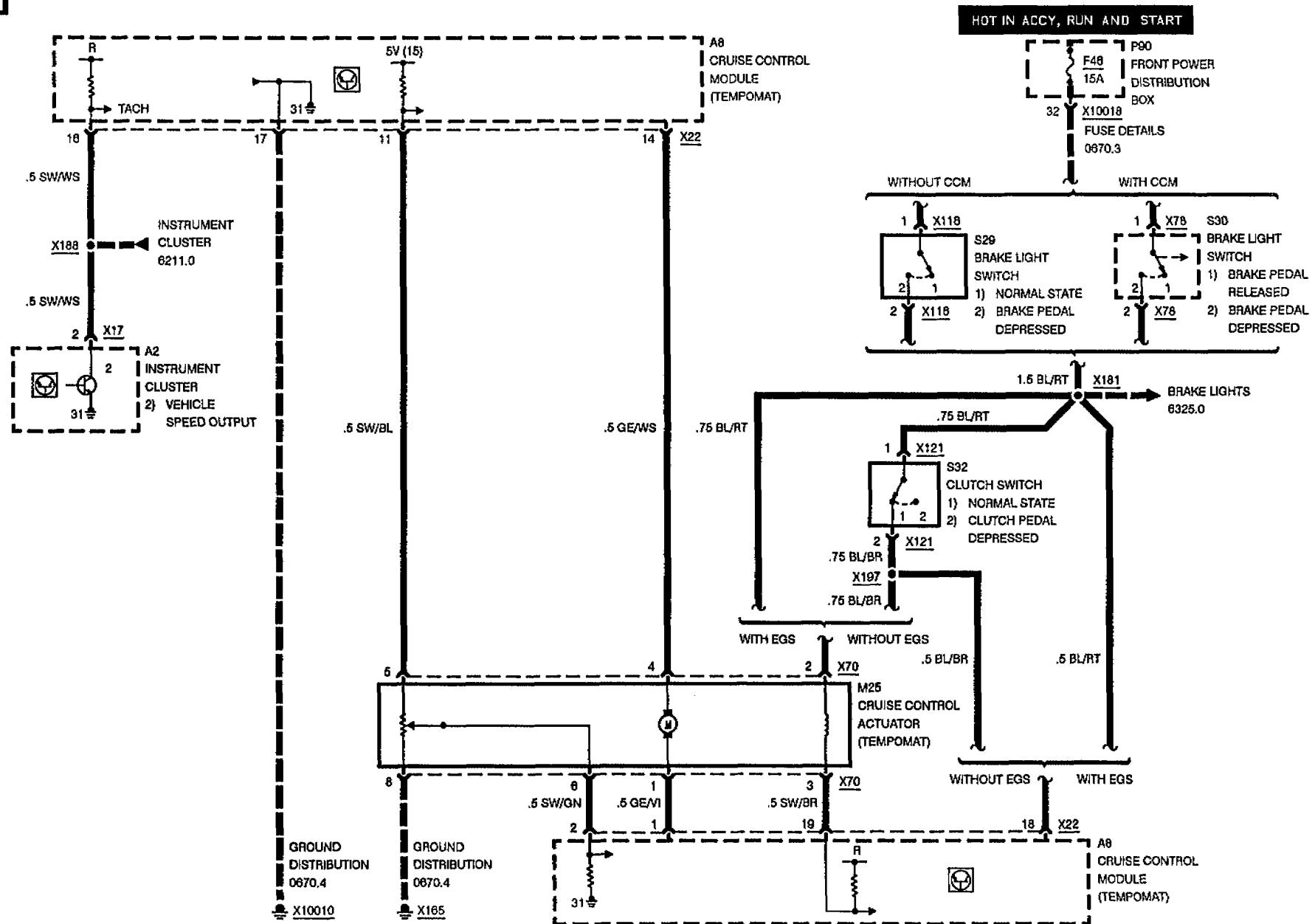




CRUISE CONTROL (TEMPOMAT)

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6571.0-01



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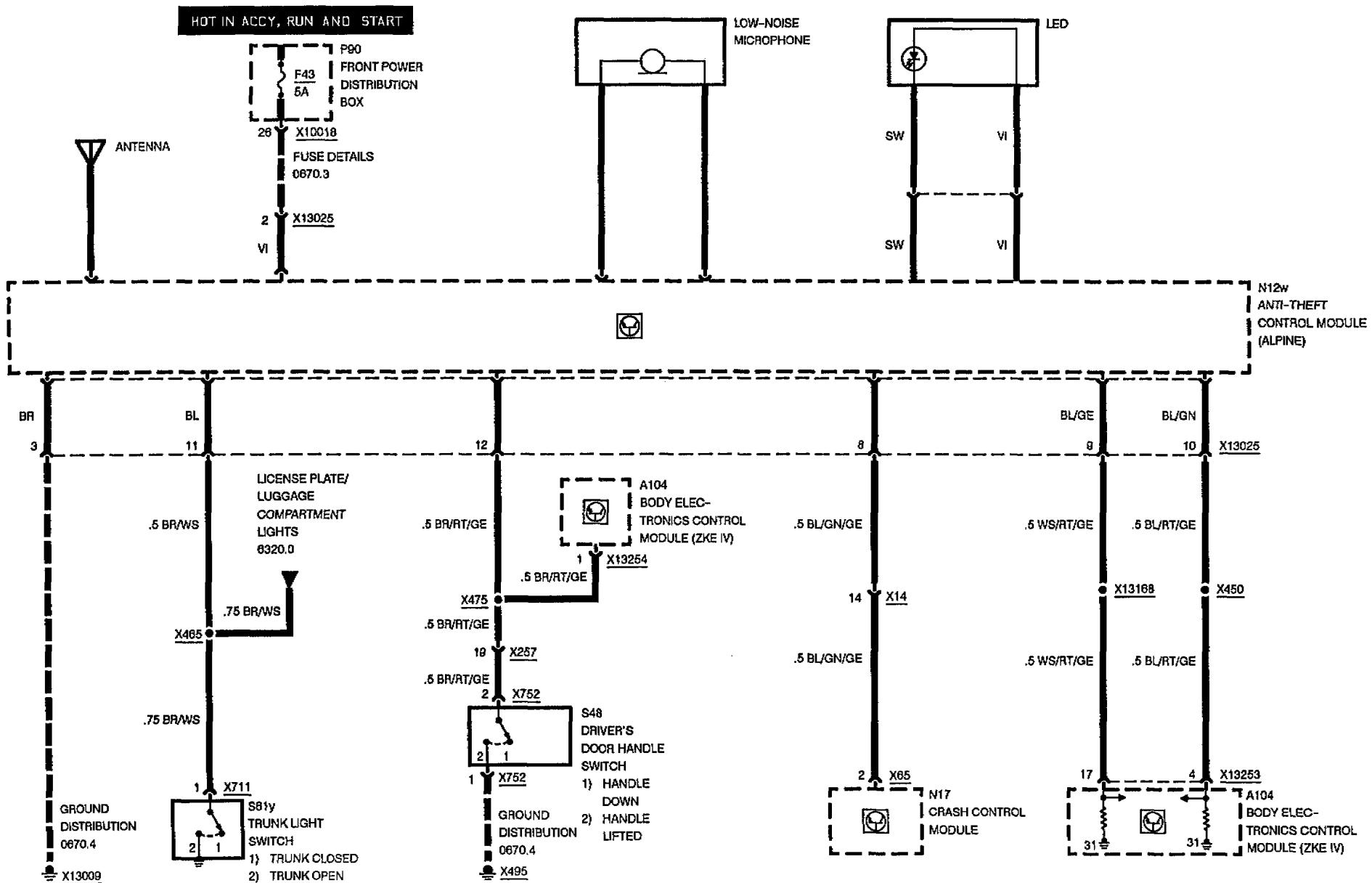


ANTI-THEFT SYSTEM (ALPINE)

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6575.2-00

1994

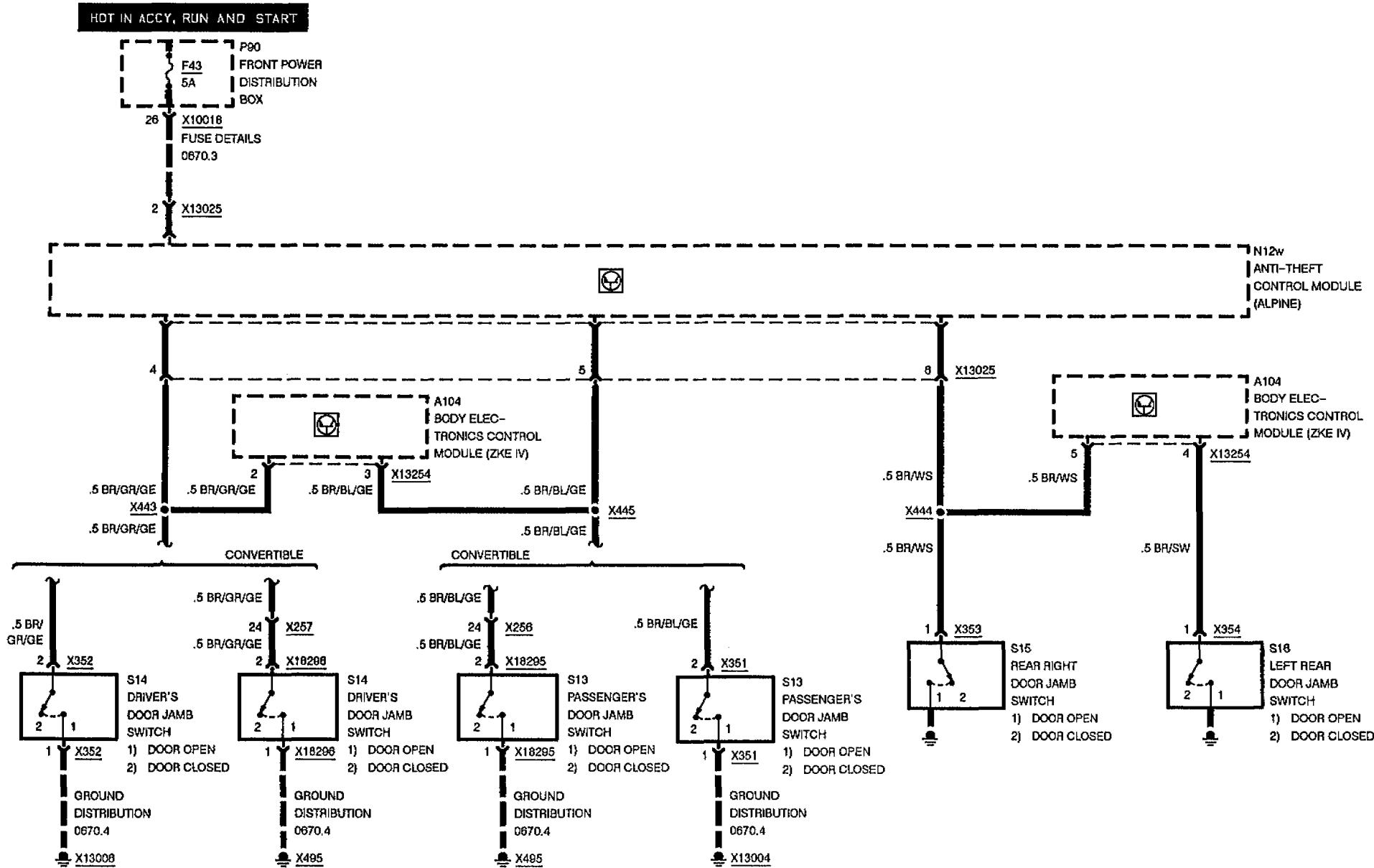




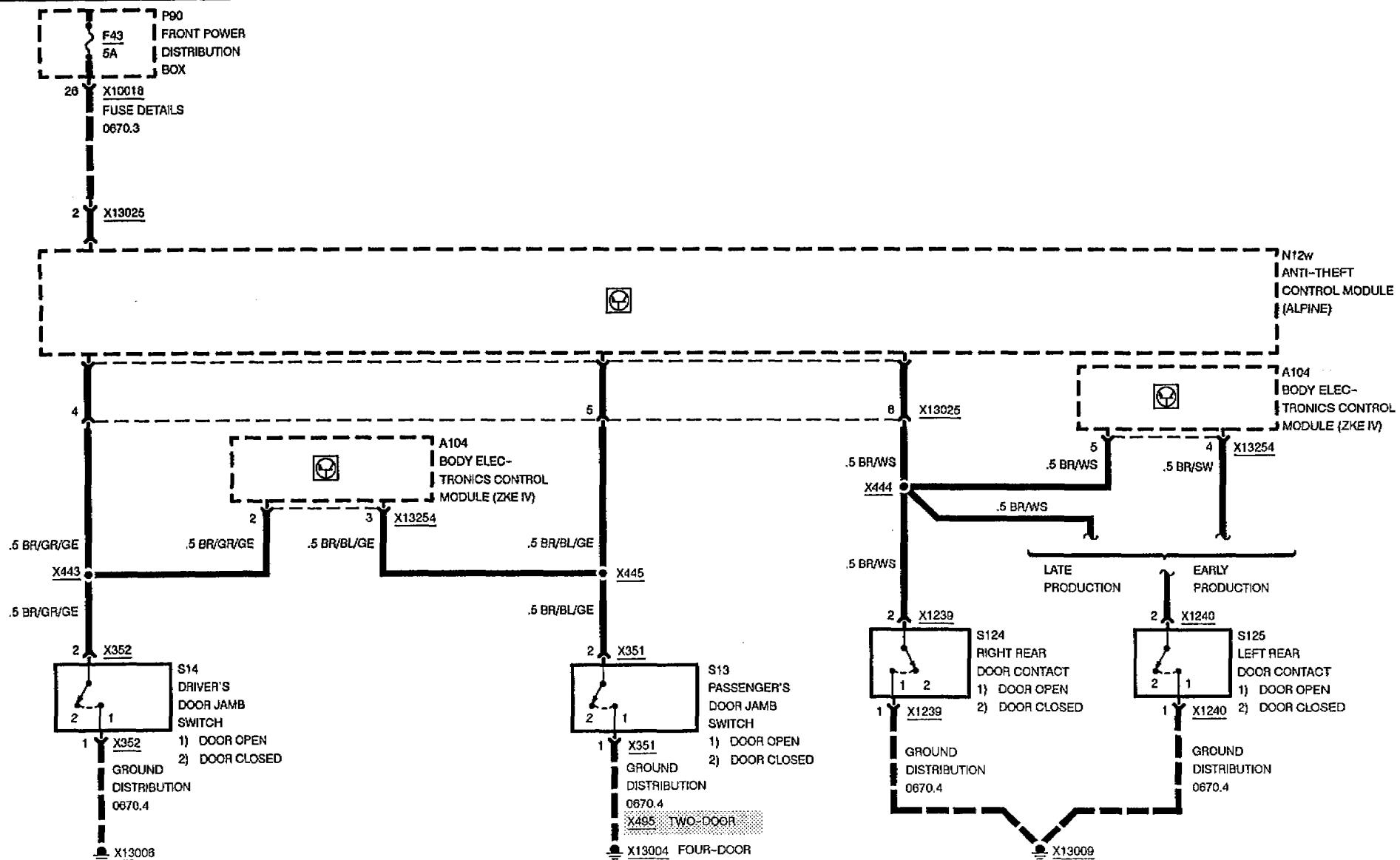
ANTI-THEFT SYSTEM (ALPINE)

EARLY PRODUCTION

FRONT AND REAR DOOR JAMB SWITCHES



HOT IN ACCY, RUN AND START



6575.2-02

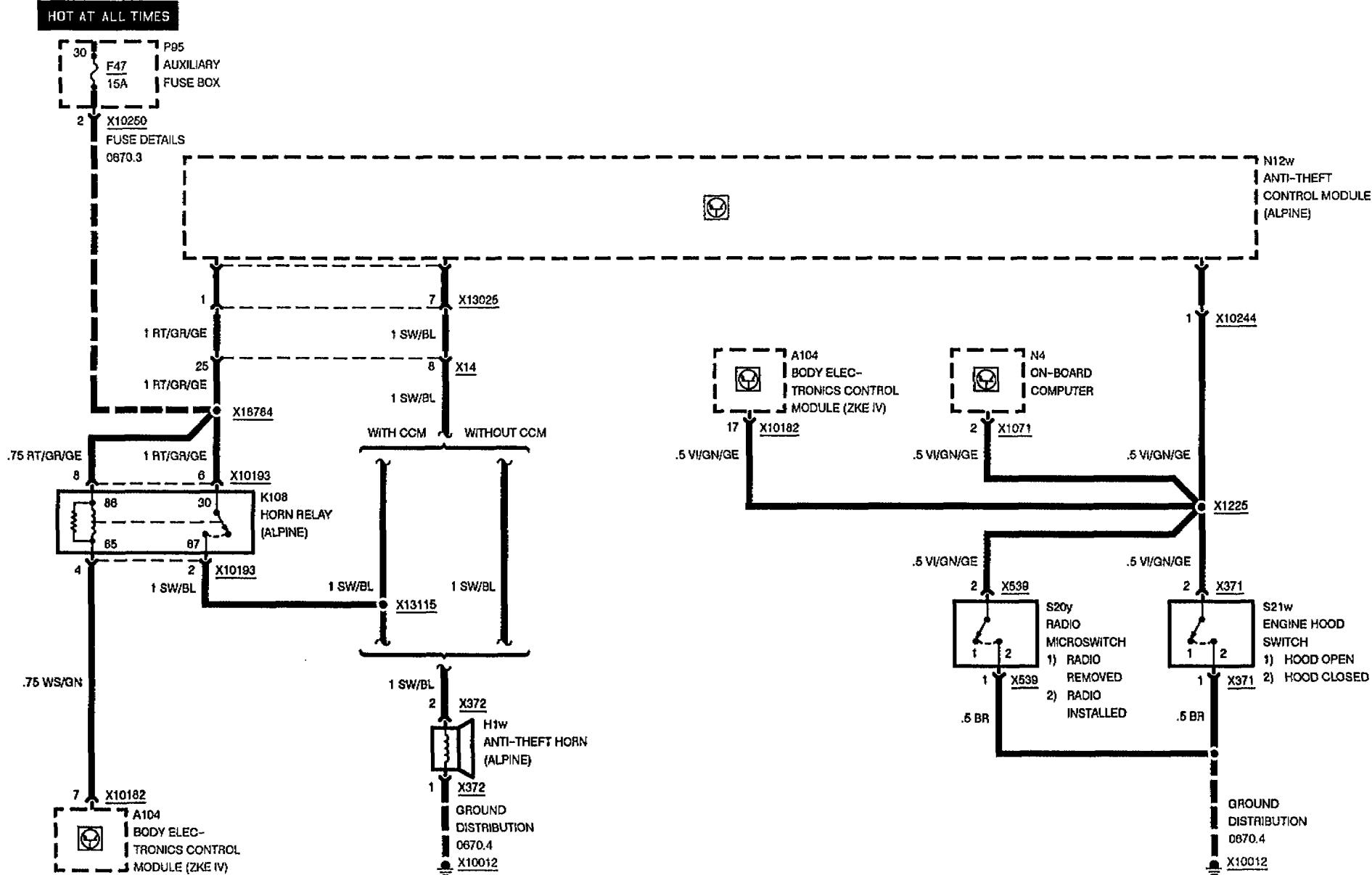
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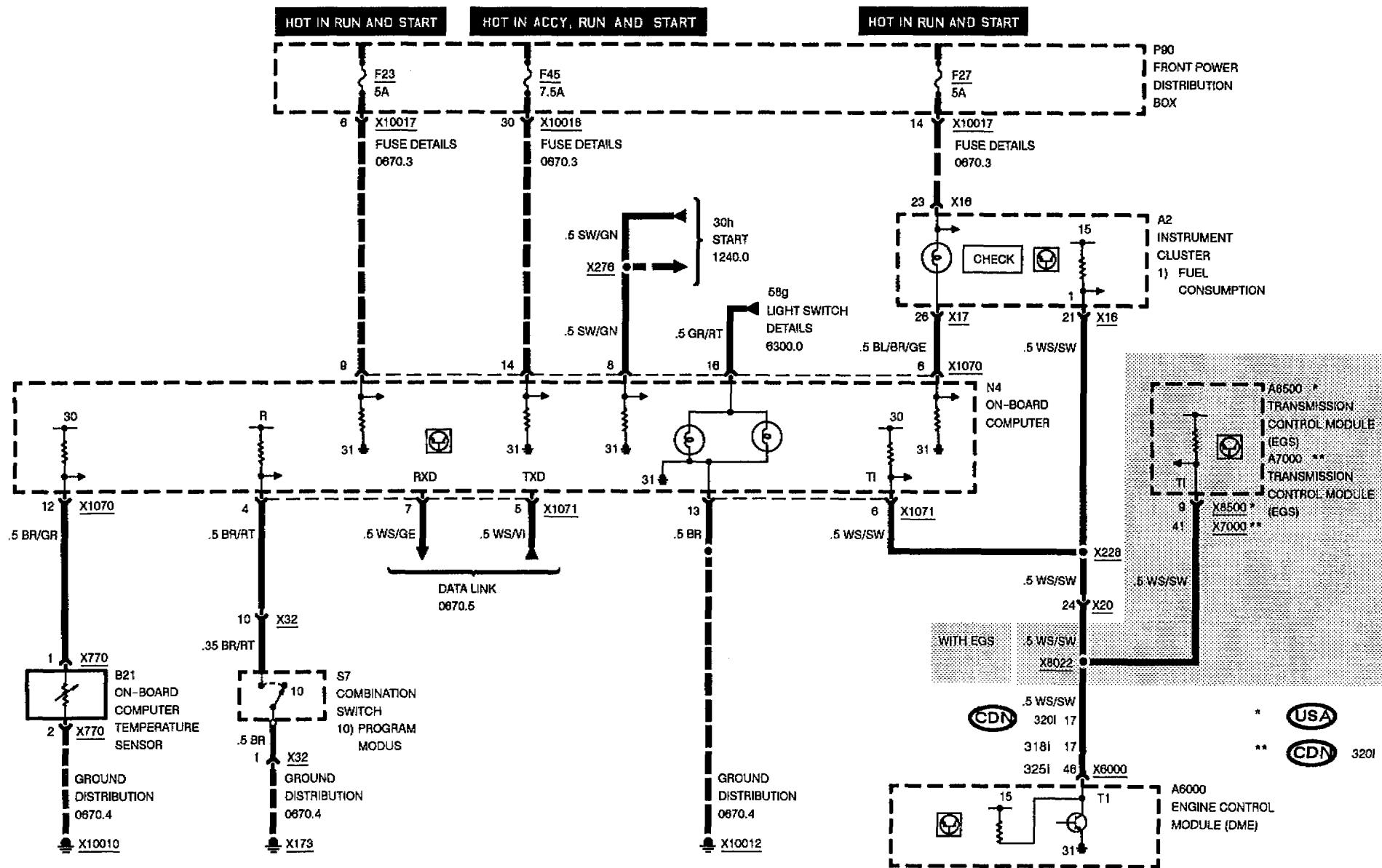
ANTI-THEFT SYSTEM (ALPINE)

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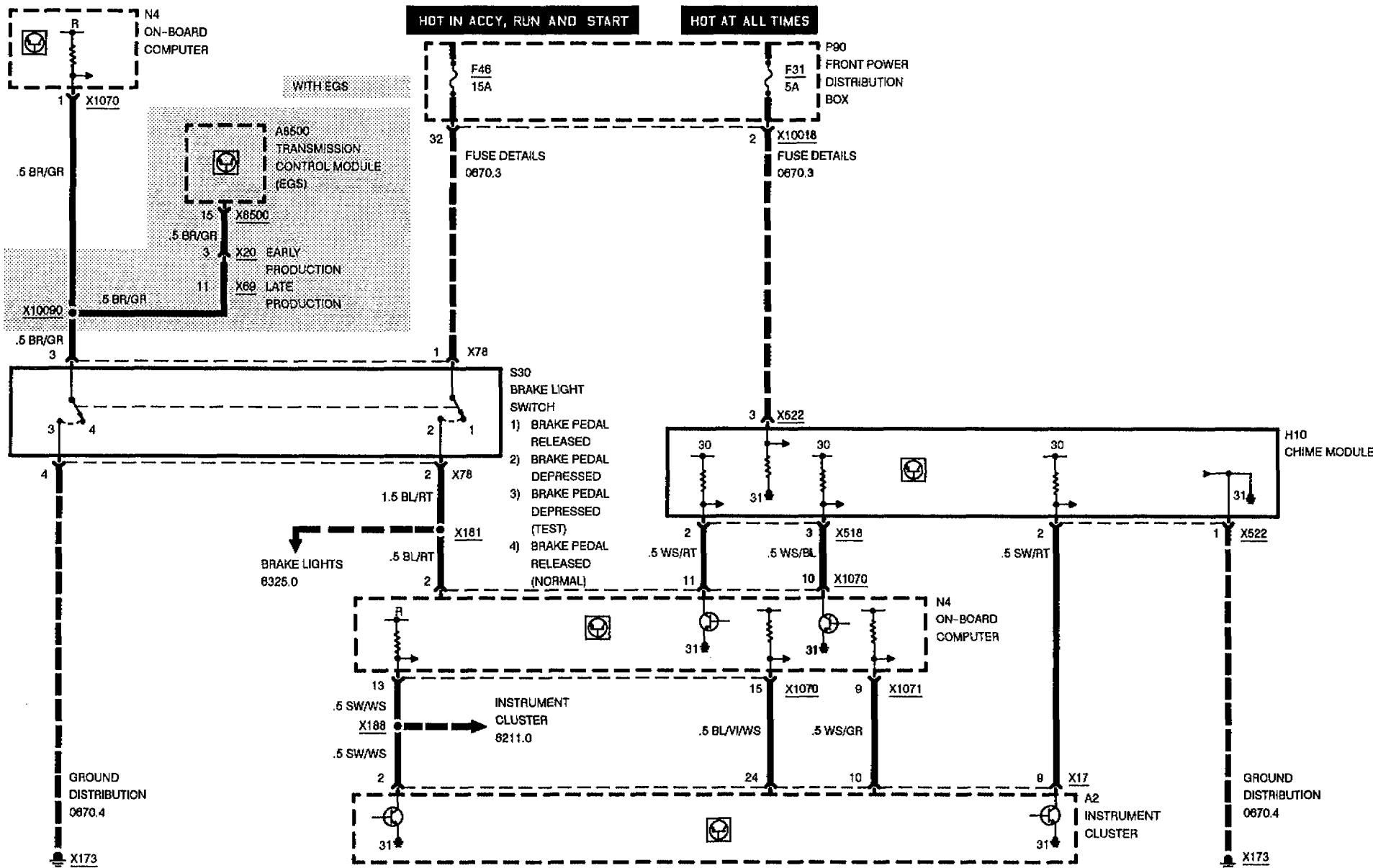
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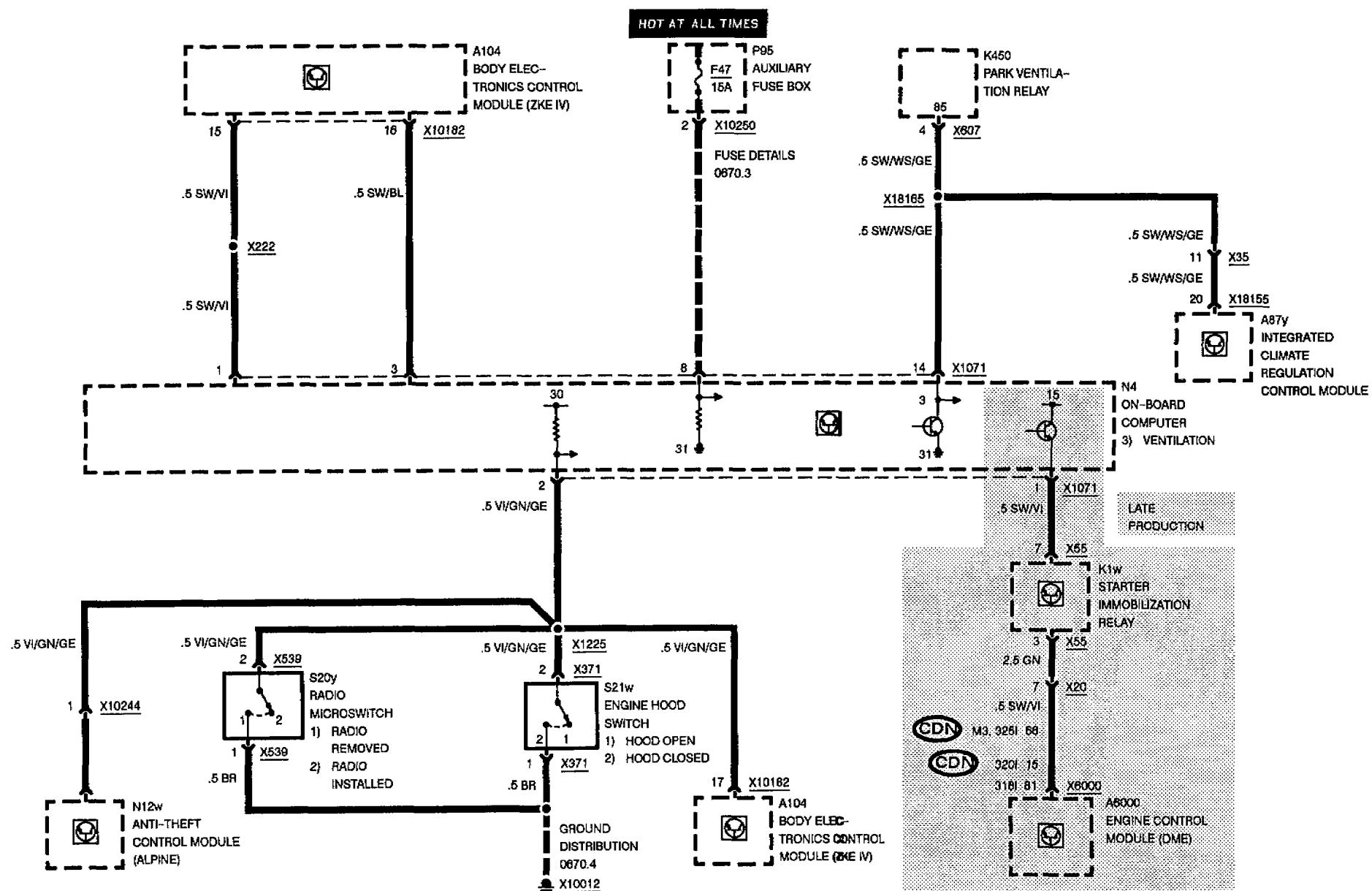


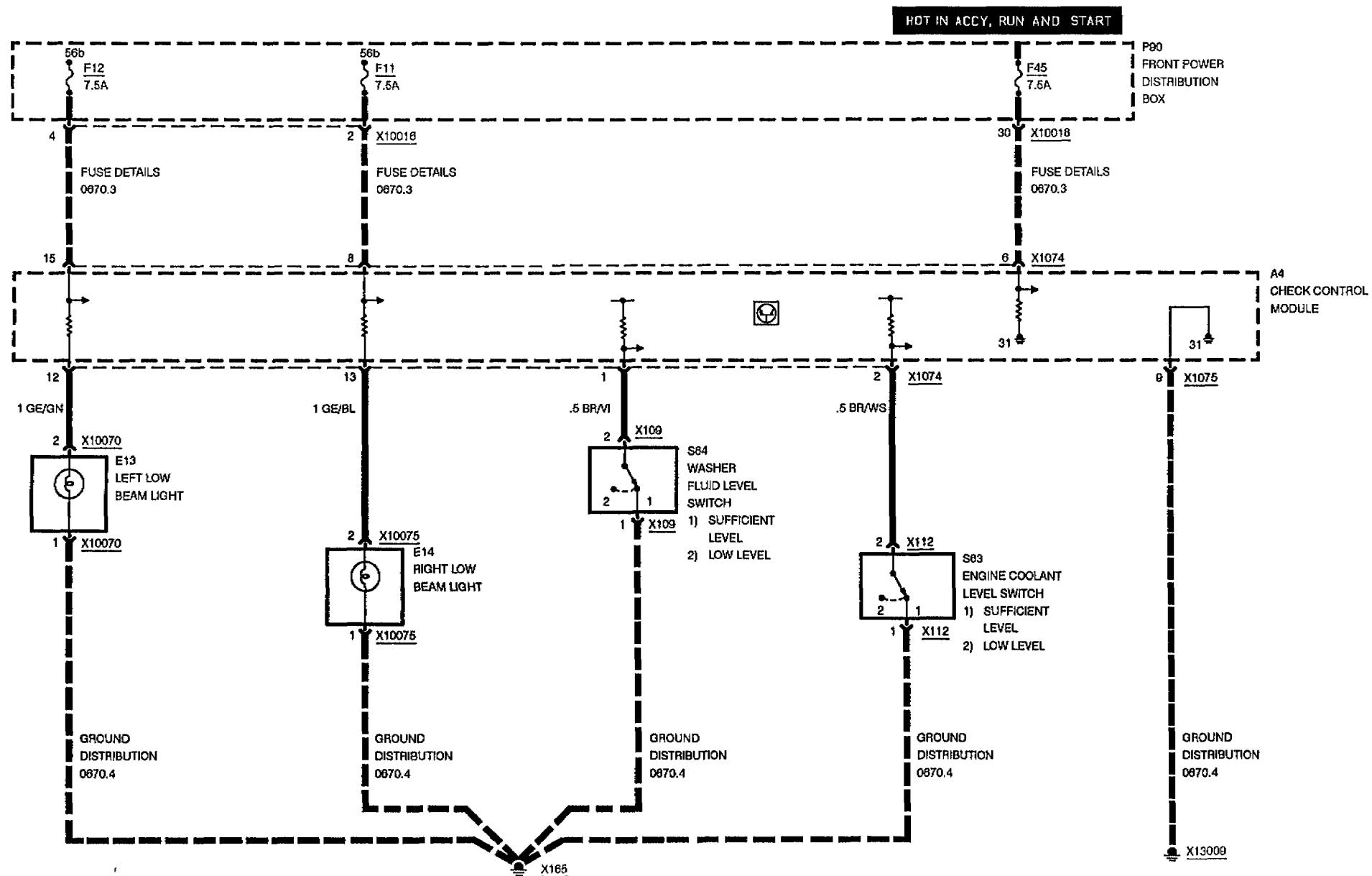


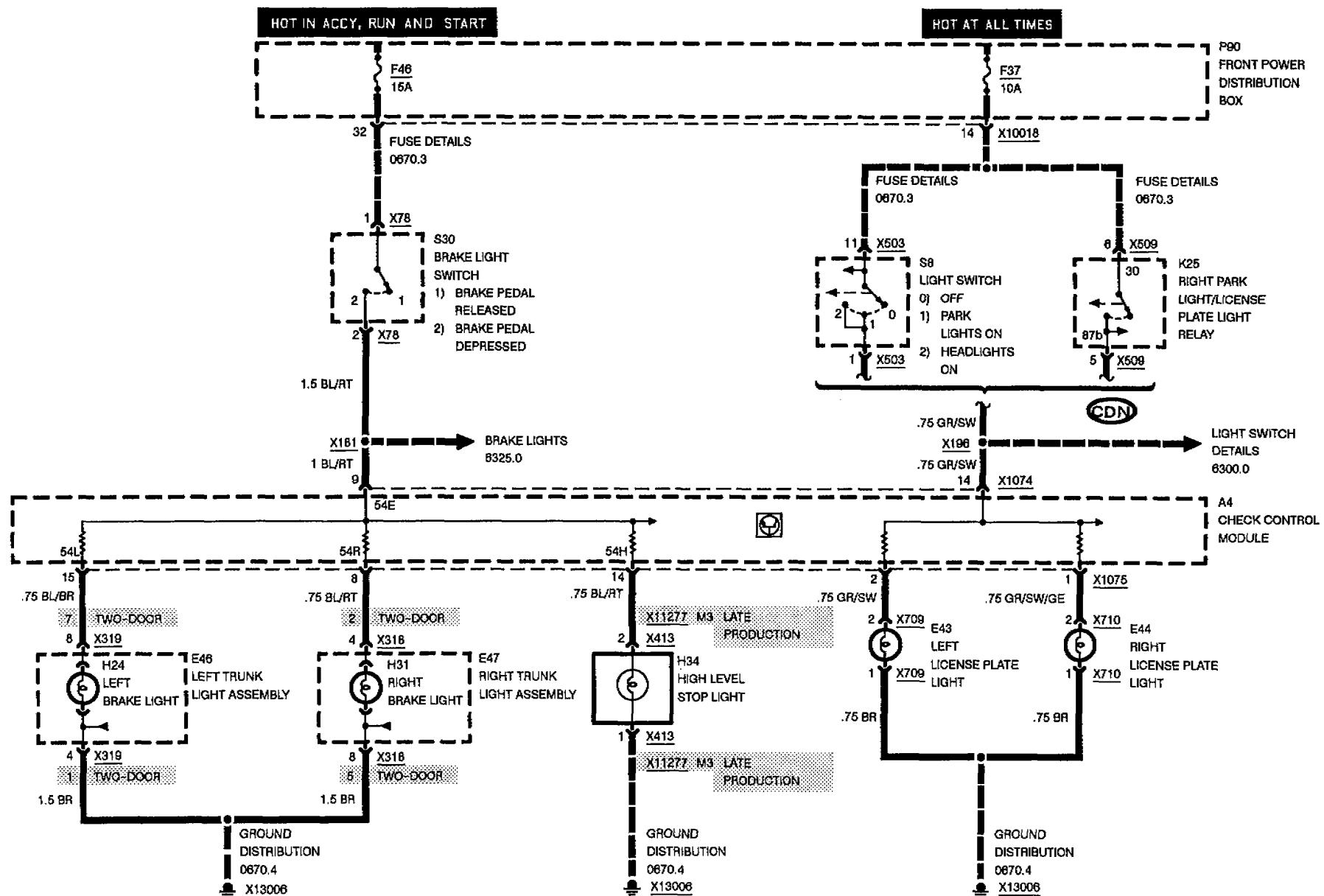
ON-BOARD COMPUTER (BC V)

CHIME, BRAKE LIGHT SWITCH







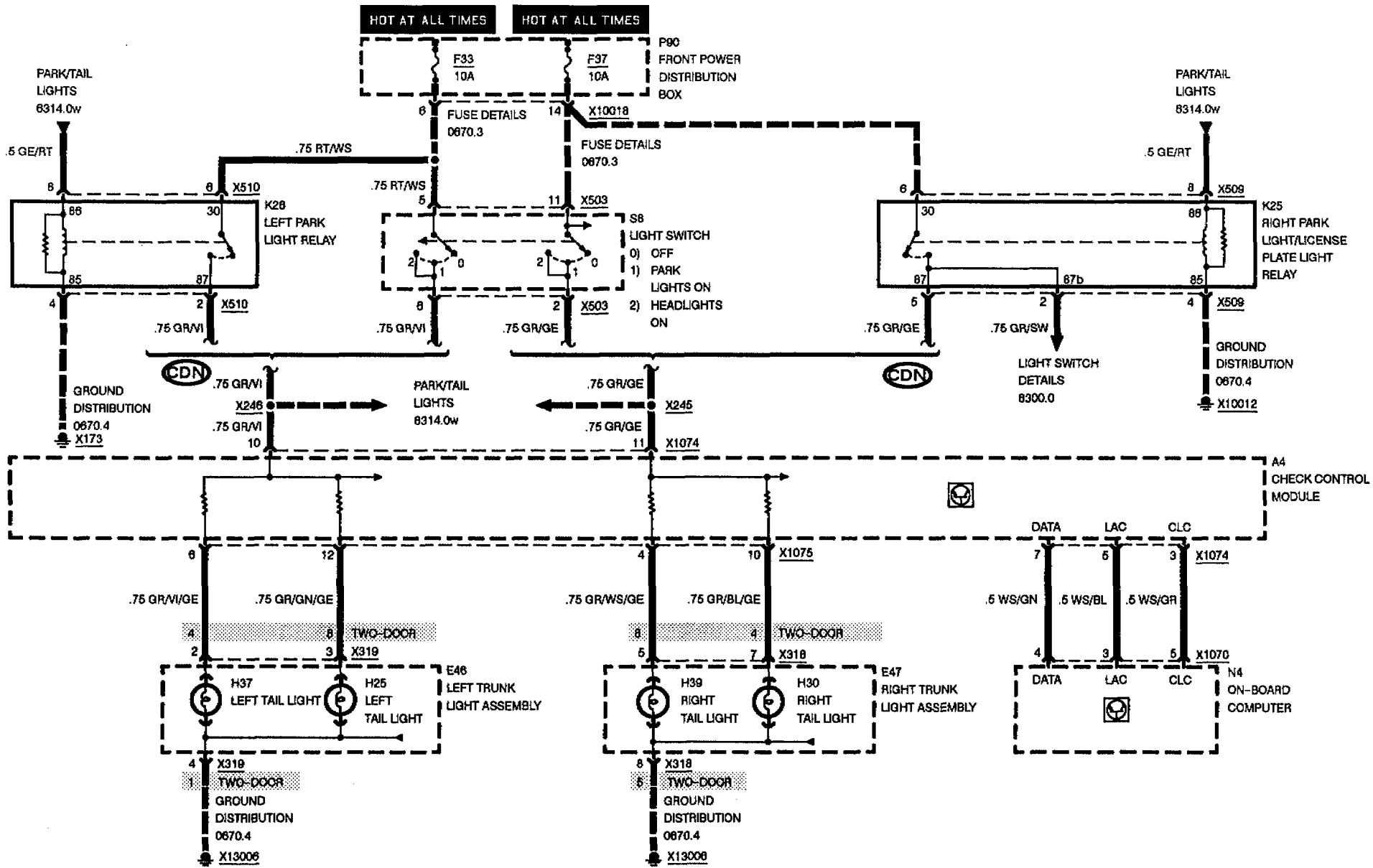




ON-BOARD COMPUTER (BC V) CHECK CONTROL

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6581.2-05



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COMPONENT

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A2	INSTRUMENT CLUSTER	LH side of dash	27-3
A4	CHECK CONTROL MODULE	Below LH side of dash	00-3
A5	RELAY MODULE	Behind glove box (glove box removed)	01-2
A7	SLIP CONTROL MODULE (ABS)	RH side of dash behind glove box	01-3
A8	CRUISE CONTROL MODULE (TEMPOMAT) ..	RH side of dash behind glove box	01-2
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROLMODULE	Under rear seats	32-3
A18	HIFI AMPLIFIER	Below RH side of rear seat Convertible	02-3
A18	HIFI AMPLIFIER	In LH side of luggage compartment	04-1
A35	ON-BOARD DISPLAY	Center of dash center console	
A51	WIPER/WASHER MODULE	Behind glove box (glove box removed)	01-1
A52	SLIP CONTROL MODULE (ABS/ASC)	Behind glove box (glove box removed)	01-3
A56	SUNROOF CONTROL ASSEMBLY	Under roof center panel	04-2
A64	WIPER/WASHER MODULE (LOW II)	Behind glove box (glove box removed)	
A96	CONVERTIBLE TOP CONTROL MODULE	In lower LH C-pillar behind side panel	02-1
A104	BODY ELECTRONICS CONTROL MODULE (ZKE IV)	Behind glove box (glove box removed)	01-1
A113	SEAT OCCUPANCY DETECTOR	Under RH front seat	
A117	TELEPHONE EJECT BOX	Center console	
A87y	INTEGRATED CLIMATE REGULATION CONTROLMODULE	Center console	03-2

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COMPONENT LOCATION CHART

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A5024 . VARIABLE CAMSHAFT CONTROL MODULE (VANOS)	Rear RH side of engine compartment	04-3
A6000 . ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment	00-1
A7000 . TRANSMISSION CONTROL MODULE (EGS) ..	Rear RH side of engine compartment	00-1
A8500 . TRANSMISSION CONTROL MODULE (EGS) ..	Rear RH side of engine compartment	00-1
B1 RIGHT FRONT SPEED SENSOR - ABS	On RH front wheel, above brake caliper	08-3
B2 LEFT FRONT SPEED SENSOR - ABS	On LH front wheel, above brake caliper	08-3
B3 RIGHT REAR SPEED SENSOR - ABS	On RH rear wheel, above brake caliper	
B4 LEFT REAR SPEED SENSOR - ABS	On LH rear wheel, above brake caliper	
B6 FUEL LEVEL SENSOR	Below LH side of rear seat	21-1
B10 ... VEHICLE SPEED SENSOR	Under rear of car	08-1
B11 ... LH HEAT EXCHANGER TEMPERATURE SENSOR	Center console	
B12 ... RH HEAT EXCHANGER TEMPERATURE SENSOR	Center console	
B13 ... OUTSIDE TEMPERATURE SENSOR	Rear of engine compartment behind RH fresh air cowl	15-2
B14 ... EVAPORATOR TEMPERATURE SENSOR	RH side of LH footwell LH side of IHKR Plenum	27-1
B16 ... LEFT FRONT BRAKE PAD SENSOR	On LH front wheel, above brake caliper	08-3
B17 ... RIGHT REAR BRAKE PAD SENSOR	Behind RH rear wheel	
B18 ... BRAKE FLUID LEVEL SWITCH	Rear LH side of engine compartment near brake master cylinder top of brake fluid reservoir (325i)	18-3
B21 ... ON-BOARD COMPUTER TEMPERATURE SENSOR	Front RH side of engine compartment	15-1
B25y ... FUEL TANK SENSOR II	Top of fuel tank	

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B400 .. MICROPHONE	Center of dash	
B5022 .. VARIABLE CAMSHAFT CONTROL SENSOR 1	Front of engine compartment (M3)	12-2
B5023 .. VARIABLE CAMSHAFT CONTROL SENSOR 2	RH front of engine (M3)	12-1
B5028 .. HEATED OXYGEN SENSOR 2	Front of engine compartment	
B6200 .. HEATED OXYGEN SENSOR	Under center of car	15-3
B6203 .. CRANKSHAFT POSITION/RPM SENSOR	Under RH front of car rear of radiator	10-3
B6204 .. CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine below intake manifold rear of radiator (325i)	11-1
B6204 .. CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine (M3)	11-2
B6204 .. CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine (M3)	
B6205 .. INTAKE AIR TEMPERATURE SENSOR	LH side of engine (near oil level stick)	13-3
B6208 .. CAMSHAFT ACTUATOR	Front of engine	
B6209 .. HALL EFFECT CAMSHAFT SENSOR	Front of engine	
B6217 .. HOT FILM AIR MASS METER	Top front of engine	
B6231 .. OIL PRESSURE SWITCH	RH front of engine below intake manifold (325i)	11-1
B6231 .. OIL PRESSURE SWITCH	LH side of engine (near oil level stick) (M3)	14-2
B6231 .. OIL PRESSURE SWITCH	RH front of engine below intake manifold (318i)	17-1
B6232 .. ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (325i)	11-3



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B6232 . ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine (M3)	12-1
B6232 . ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (318i)	17-2
B6233 . VOLUME AIR FLOW SENSOR	LH side of engine compartment right of LH side shock tower	
B6236 . ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (325i)	11-1
B6236 . ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine (M3)	12-1
B6236 . ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below Intake manifold (318i)	17-2
B6238 . OIL TEMPERATURE SENSOR	LH side of engine (M3)	14-2
B6241 . CYL. 1-2 KNOCK SENSOR	Top front of engine	
B6242 . CYL. 3-4 KNOCK SENSOR	Top front of engine (M3)	14-3
B6243 . CYL. 5-6 KNOCK SENSOR	Top front of engine (M3)	
B9508 . PRESSURE SWITCH	Front RH side of engine compartment near RH headlight assembly	09-3
B6241w CYL. 1-3 KNOCK SENSOR	Top front of engine	
B6242w CYL. 4-6 KNOCK SENSOR	Top front of engine	
C101 .. CONTACT RING	Top of steering column	24-1
C900 .. SUPPRESSION FILTER	In upper RH C-pillar	33-2
D100 .. DATA LINK CONNECTOR	Rear RH side of engine compartment	05-1
E9 REAR DEFOGGER I	In upper RH C-pillar	33-2
E10 REAR DEFOGGER/ANTENNA	In rear window	
E11 LEFT HIGH BEAM LIGHT	Near LH headlight assembly	
E12 RIGHT HIGH BEAM LIGHT	Near RH headlight assembly	

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E13 ... LEFT LOW BEAM LIGHT	Near LH headlight assembly
E14 ... RIGHT LOW BEAM LIGHT	Near RH headlight assembly
E15 ... LEFT PARK LIGHT	Front of vehicle
E19 ... RIGHT PARK LIGHT	Front of vehicle
E20 ... UNDERHOOD LIGHT	On underside of engine hood (early production)
E25 ... FRONT ASHTRAY LIGHT	Center console 30-2
E26 ... LEFT FOG LIGHT	Under LH front bumper 08-2
E27 ... RIGHT FOG LIGHT	Under RH front bumper 08-2
E28 ... FRONT CIGAR LIGHTER	Near gearshift lever
E29 ... FRONT CIGAR LIGHTER LIGHT	Center console
E32 ... TRUNK COMPARTMENT LIGHT	In luggage compartment
E34 ... FRONT DOME LIGHT/MAP READING ASSEMBLY	Under roof center panel 04-2
E35 ... DRIVER'S MAKEUP MIRROR LIGHT	Above LH sun visor 23-1
E36 ... PASSENGER'S MAKEUP MIRROR LIGHT	Above RH sun visor 32-2
E39 ... LEFT REAR INTERIOR LIGHT	In upper LH C-pillar 33-1
E40 ... RIGHT REAR INTERIOR LIGHT	In upper RH C-pillar 33-2
E42y ... GLOVE BOX LIGHT/SWITCH	Behind glove box (glove box removed) 25-1
E43 ... LEFT LICENSE PLATE LIGHT	Underside of trunk lid, near license plate 09-1
E44 ... RIGHT LICENSE PLATE LIGHT	Underside of trunk lid, near license plate 09-1
E46 ... LEFT TRUNK LIGHT ASSEMBLY	In LH rear side of luggage compartment



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E47 ... RIGHT TRUNK LIGHT ASSEMBLY	In RH rear side of luggage compartment	03-3
E48 ... DOOR LOCK HEATER	LH front door	31-2
E51 ... LEFT WASHER JET HEATER	On underside of engine hood	24-2
E52 ... RIGHT WASHER JET HEATER	On underside of engine hood	24-2
E56 ... DRIVER'S SEATBACK HEATER	In upper LH front seatback	23-3
E57 ... DRIVER'S SEAT HEATER	Under LH front seat	23-3
E58 ... PASSENGER'S SEAT HEATER	Underside of RH front seat	
E59 ... PASSENGER'S SEATBACK HEATER	In upper RH front seatback	
E82 ... TRANSMISSION POSITION INDICATOR LIGHT	Center console	
E99 ... HARD TOP CONNECTOR 1	In convertible top compartment	
E101 ... LEFT TRUNK COMPARTMENT LIGHT	In LH rear side of luggage compartment Convertible	
E102 ... RIGHT TRUNK COMPARTMENT LIGHT	In RH rear side of luggage compartment Convertible	
E104 ... THROTTLE FLAP HEATER	LH side of engine compartment	
E28y ... REAR ASHTRAY LIGHT	Below center console	30-2
E45y ... CASSETTE BOX LIGHT	Center of dash	
E100y ... HARD TOP CONNECTOR 2	In convertible top compartment	
G1 ... BATTERY	Front RH side of engine compartment	
G5 ... DRIVER'S AIR BAG GAS GENERATOR	Behind steering wheel	24-1
G6 ... PASSENGER'S AIR BAG GAS GENERATOR I ..	Above glove box	32-1
G6430 ... B+ JUMP START JUNCTION POINT	Rear RH side of engine compartment back of RH side shock tower	05-1



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G6509 . GENERATOR	Front LH side of engine compartment	05-2
H2 LEFT HORN	Front of engine compartment	
H3 RIGHT HORN	Front of engine compartment	
H4 RIGHT FRONT TURN LIGHT	Front of vehicle	
H5 RIGHT REAR TURN LIGHT	RH side of body rear end	
H6 LEFT REAR TURN LIGHT	LH side of body rear end	
H7 LEFT FRONT TURN LIGHT	Front of vehicle	
H8 RIGHT FRONT AUXILIARY TURN LIGHT	Front of vehicle	
H9 LEFT FRONT AUXILIARY TURN LIGHT	Front of vehicle	
H10 ... CHIME MODULE	Below LH side of dash	
H1w ... ANTI-THEFT HORN (ALPINE)	Front RH side of engine compartment	
H24 ... LEFT BRAKE LIGHT	LH side of body rear end	
H25 ... LEFT TAIL LIGHT	LH side of body rear end	
H26 ... LEFT REAR FOG LIGHT	LEFT TRUNK LIGHT ASSEMBLY, E46	
H27 ... LEFT BACK UP LIGHT	LEFT TRUNK LIGHT ASSEMBLY, E46	
H28 ... RIGHT BACK UP LIGHT	LEFT TRUNK LIGHT ASSEMBLY, E46	
H30 ... RIGHT TAIL LIGHT	RIGHT TRUNK LIGHT ASSEMBLY, E47	
H31 ... RIGHT BRAKE LIGHT	RIGHT TRUNK LIGHT ASSEMBLY, E47	
H34 ... HIGH LEVEL STOP LIGHT	At back of rear window shelf	
H37 ... LEFT TAIL LIGHT	RIGHT TRUNK LIGHT ASSEMBLY, E47	

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COMPONENT

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H38 ... TELEPHONE TRANSCEIVER	Rear side of luggage compartment	
H41 ... LEFT FRONT SPEAKER	In lower LH A-pillar	
H42 ... LEFT MID-HIGH RANGE SPEAKER	In upper LH front door	
H43 ... RIGHT MID-HIGH RANGE SPEAKER	In upper RH front door	
H45 ... RIGHT REAR SPEAKER	Under rear window shelf	
H46 ... LEFT REAR SPEAKER	Under rear window shelf	
H50 ... RIGHT FRONT HIGH RANGE SPEAKER	In upper RH front door	
H51 ... RIGHT FRONT LOW RANGE SPEAKER	In lower RH A-pillar	
H52 ... RIGHT REAR LOW RANGE SPEAKER	Under rear window shelf	
H53 ... RIGHT REAR HIGH RANGE SPEAKER	Under rear window shelf	
H54 ... RIGHT FRONT MIDRANGE SPEAKER	In upper RH front door	
H55 ... LEFT FRONT MIDRANGE SPEAKER	In upper LH front door	
H56 ... LEFT REAR HIGH RANGE SPEAKER	Under rear window shelf	
H57 ... LEFT REAR LOW RANGE SPEAKER	Under rear window shelf	
H58 ... LEFT FRONT LOW RANGE SPEAKER	In lower LH A-pillar	
H59 ... LEFT FRONT HIGH RANGE SPEAKER	In upper LH front door	
K1 ... STARTER RELAY	Behind LH footwell speaker grille	25-3
K2 ... HORN RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2
K4 ... BLOWER RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2
K9 ... UNLOADER RELAY, TERMINAL 15	Behind LH footwell speaker grille	25-3



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K10 ... ABS RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1
K11 ... WIPER RELAY	Behind LH footwell speaker grille	25-3
K13 ... REAR DEFOGGER RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1
K16 ... HAZARD FLASHER RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2
K19 ... COMPRESSOR CONTROL RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1
K1w ... STARTER IMMOBILIZATION RELAY	Behind LH footwell speaker grille (late production)	25-3
K21 ... NORMAL SPEED RELAY	Rear LH side of engine compartment in Power Distribution Box	19-3
K22 ... HIGH SPEED RELAY	Rear LH side of engine compartment in Power Distribution Box	19-3
K25 ... RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY	RH side of dash behind glove box	
K26 ... LEFT PARK LIGHT RELAY	RH side of dash behind glove box	
K46 ... HIGH BEAM LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2
K47 ... FRONT FOG LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2
K48 ... LOW BEAM LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2
K53 ... WIPER MOTOR RELAY	Behind LH footwell speaker grille	25-3
K75 ... ABS PUMP MOTOR RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1
K99 ... REAR WINDOW BLOWER RELAY	Behind glove box (glove box removed)	25-2
K108 ... HORN RELAY (ALPINE)	Behind glove box (glove box removed)	25-2
K114 ... COMFORT RELAY	Footwell, driver's side	
K117 ... TRUNK LID RELAY	Behind glove box	



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K450 .. PARK VENTILATION RELAY	Footwell, driver's side	02-2
K5029 .. DOUBLE RELAY	Rear LH side of engine compartment in Power Distribution Box (M3)	19-3
K6300 .. ENGINE CONTROL MODULE RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1
K6300 .. ENGINE CONTROL MODULE RELAY	Rear LH side of engine compartment in Power Distribution Box (M3)	19-3
K6301 .. CYL. 1-6 FUEL PUMP RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1
K6303 .. OXYGEN SENSOR RELAY	Power Distribution Box rear LH side of engine compartment	
K6307 .. FUEL PUMP/START IDENTIFICATION RELAY ..	Rear LH side of engine compartment in Power Distribution Box (M3)	19-3
K6301w FUEL PUMP RELAY	Rear LH side of engine compartment in Front Power Distribution Box	
M2 .. FUEL PUMP	Below RH side of rear seat	20-1
M3 .. WIPER MOTOR	Rear of engine compartment below center of cowl	16-1
M4 .. WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	10-1
M5 .. INTENSIVE WASH PUMP	Front RH side of engine compartment	
M7 .. HEADLIGHT/FOG LIGHT WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	10-2
M9 .. AUXILIARY FAN MOTOR	Behind front grille behind trim panel	18-1
M12 .. DRIVER'S DOOR LOCK MOTOR	In lower LH front door behind trim panel	
M13 .. PASSENGER'S DOOR LOCK MOTOR	In lower RH side of front door behind trim panel	
M14 .. RIGHT REAR DOOR LOCK MOTOR	In lower RH rear door behind trim panel	
M15 .. LEFT REAR DOOR LOCK MOTOR	In lower LH rear door behind trim panel	
M16 .. GAS FILLER LOCK MOTOR	In RH rear side of luggage compartment	03-3
M17 .. TRUNK LOCK MOTOR	Rear side of luggage compartment	

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M20 ... LEFT REAR WINDOW MOTOR	In lower LH rear door behind trim panel	
M21 ... DRIVER'S WINDOW MOTOR	LH front door behind door panel	30-3
M22 ... RIGHT REAR WINDOW MOTOR	In lower RH rear door behind door panel	
M23 ... PASSENGER'S WINDOW MOTOR	RH front door behind door panel	31-1
M24 ... SUNROOF MOTOR	Center of windshield header	
M25 ... CRUISE CONTROL ACTUATOR (TEMPOMAT)	Front LH side of engine compartment	18-2
M30 ... BLOWER MOTOR	Rear of engine compartment behind RH fresh air cowl	15-2
M34 ... DASH VENT MIXING FLAP MOTOR	Below LH side of dash RH side of steering column	28-2
M36 ... FRESH AIR FLAP MOTOR	Below RH side of dash center console right	28-3
M40 ... RECIRCULATION FLAP MOTOR	Below LH side of dash RH side of steering column	28-2
M43 ... CONVERTIBLE TOP STORAGE LID LOCK MOTOR	Left in convertible top compartment	21-3
M50 ... DRIVER'S SEAT CUSHION TILT MOTOR	Under LH front seat	23-3
M51 ... DRIVER'S SEAT MOVEMENT MOTOR	Under LH front seat	23-3
M52 ... DRIVER'S SEAT HEIGHT MOTOR	Under LH front seat	23-3
M53 ... DRIVER'S SEATBACK RECLINER MOTOR	Under LH front seat	23-3
M58 ... PASSENGER'S SEATBACK RECLINER MOTOR	Under RH front seat	
M59 ... PASSENGER'S SEAT HEIGHT MOTOR	Under RH front seat	
M60 ... PASSENGER'S SEAT MOVEMENT MOTOR	Under RH front seat	
M61 ... PASSENGER'S SEAT CUSHION TILT MOTOR	Under RH front seat	
M93 ... AUXILIARY THROTTLE POSITION MOTOR (ADS)	Front of engine compartment	



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M98 . . . LEFT REAR WINDOW MOTOR	Left from LH rear seat behind trim panel	22-1
M99 . . . RIGHT REAR WINDOW MOTOR	RH side of RH rear seat behind trim panel	22-1
M100 . . . CONVERTIBLE TOP STORAGE LID MOTOR . .	In LH side of luggage compartment	34-1
M101 . . . CONVERTIBLE TOP MOTOR	In LH side of luggage compartment	34-3
M105 . . . REAR WINDOW BLOWER	Behind rear seats Convertible	21-2
M107 . . . GLOVE BOX LOCK MOTOR	Left of glove box (glove box removed)	25-1
M6133 . . . AIR PUMP	Front of engine compartment	
M6510 . . . STARTER	Rear LH side of engine compartment	
N3 . . . DIMMER	LH side of dash	26-1
N4 . . . ON-BOARD COMPUTER	Center console	03-1
N6 . . . HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)	Footwell, driver's side	02-2
N8 . . . ANTENNA AMPLIFIER AM/FM	In upper LH C-pillar	33-1
N10 . . . MULTI-FUNCTION CLOCK	Center console	
N17 . . . CRASH CONTROL MODULE	Footwell, driver's side	02-2
N21 . . . TWIN RELAY MODULE	Footwell, driver's side	02-2
N22 . . . CD CHANGER	In LH forward side of luggage compartment	03-3
N24 . . . ROLLOVER SENSOR	In lower LH C-pillar behind side panel	02-1
N12w . . . ANTI-THEFT CONTROL MODULE (ALPINE) . .	Behind glove box (glove box removed)	01-3
N404 . . . DIVERSITY	In upper LH C-pillar	
N444 . . . FM AMPLIFIER HLO	In upper RH C-pillar	

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P90 ... FRONT POWER DISTRIBUTION BOX	Rear LH side of engine compartment	05-3
P95 ... AUXILIARY FUSE BOX	Behind LH footwell kickpanel	
R1 ... MIXING SWITCH	Center console	
R11 ... BLOWER RESISTORS	Behind center of dashboard left	28-1
R13 ... HEADLIGHT WIDENING POTENTIOMETER ...	Front of engine compartment	
R6252 ... THROTTLE POSITION SENSOR	RH front of engine (M3)	11-2
R6252 ... THROTTLE POSITION SENSOR	LH side of engine (near oil level stick) (320i-325i)	13-3
R6252 ... THROTTLE POSITION SENSOR	LH side of engine compartment (318i)	17-3
S2 ... IGNITION SWITCH	RH side of steering column	24-3
S3 ... AUTOMATIC TRANSMISSION RANGE SWITCH	Center console near gearshift lever	29-3
S4 ... HORN SWITCH	Top of steering column	24-1
S5 ... WIPER/WASHER SWITCH	LH side of dash RH side of steering column above	
S6 ... ASC SWITCH	Center console	29-2
S7 ... COMBINATION SWITCH	LH side of steering column	24-3
S8 ... LIGHT SWITCH	LH side of dash	26-1
S10 ... FOG LIGHT SWITCH	LH side of dash	
S13 ... PASSENGER'S DOOR JAMB SWITCH	Rear RH door pillar	33-3
S14 ... DRIVER'S DOOR JAMB SWITCH	LH rear door jamb	33-3
S15 ... REAR RIGHT DOOR JAMB SWITCH	In lower RH C-pillar	33-3
S16 ... LEFT REAR DOOR JAMB SWITCH	In lower LH C-pillar	33-3



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S17 ... MIRROR CONTROL SWITCH	In upper LH front door	
S18 ... HAZARD SWITCH	Center console near gearshift lever	29-3
S27 ... INERTIA SWITCH	In lower RH A-pillar	
S28 ... CRUISE CONTROL SWITCH	RH side of steering column above	24-3
S29 ... BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-3
S30 ... BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-2
S31 ... PARK BRAKE SWITCH	Center console on rear of park brake lever	30-2
S32 ... CLUTCH SWITCH	LH footwell on clutch pedal support bracket behind LH footwell trim	26-3
S36 ... TEMPERATURE SWITCH	Front RH side of engine compartment near RH headlight assembly	09-3
S38 ... SUNROOF SWITCH	Roof	
S41 ... LEFT REAR WINDOW SWITCH	In lower LH rear door behind trim panel	
S42 ... RIGHT REAR WINDOW SWITCH	In lower RH rear door behind trim panel	
S48 ... DRIVER'S DOOR HANDLE SWITCH	Door handle	
S51 ... DRIVER'S SEAT, SEAT CONTROL SWITCH	LH side of driver's seat	
S53 ... DRIVER'S SEAT, SEAT HEATER SWITCH	Center console near gearshift lever	29-2
S54 ... PASSENGER'S SEAT, SEAT HEATER SWITCH	Center console near gearshift lever	29-1
S56 ... PASSENGER'S SEAT, SEAT CONTROL SWITCH	Passenger's seat, right	
S58 ... DRIVER'S SEAT BELT SWITCH	In LH front seat belt buckle	
S59 ... PASSENGER'S SEAT BELT SWITCH	In RH front seat belt buckle	



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S63 ... ENGINE COOLANT LEVEL SWITCH	Front RH side of engine compartment	18-1
S64 ... WASHER FLUID LEVEL SWITCH	Front RH side of engine compartment on washer fluid reservoir	10-1
S71 ... LEFT FRONT IMPACT SENSOR	LH side of engine compartment	
S75 ... BLOWER SWITCH	Center of dash	
S77 ... DRIVER'S MAKEUP MIRROR SWITCH	Above LH sun visor	23-1
S78 ... PASSENGER'S MAKEUP MIRROR SWITCH ..	Above RH sun visor	32-2
S82 ... REAR FOG LIGHT SWITCH	LH side of dash	
S123 .. ABS PEDAL TRAVEL SENSOR	Near brake master cylinder	18-3
S130 .. CHILD PROTECTION CONTROL (CONSOLE) .	Center console	
S143 .. CONVERTIBLE TOP ACTUATING SWITCH ...	Center console	
S164 .. CONVERTIBLE TOP END-POSITION MICRO SWITCH	At convertible top linkage	
S165 .. CONVERTIBLE TOP POSITION MICRO SWITCH	At convertible top linkage	
S196 .. REAR WINDOW BLOWER MICRO SWITCH ...	At convertible top linkage	
S20y .. RADIO MICROSWITCH	Center of dash	
S213 .. TRUNK LID MICRO SWITCH	In LH rear side of luggage compartment	
S214 .. CONVERTIBLE TOP STORAGE LID MICRO SWITCH	At convertible top linkage	
S21w .. ENGINE HOOD SWITCH	Front RH side of engine compartment	13-2
S40y .. CENTRAL POWER WINDOW SWITCH	Center console	
S61y .. TRUNK LIGHT SWITCH	Underside of trunk lid left	34-2

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S126y . DRIVER'S POWER WINDOW SWITCH	Center console near gearshift lever	30-1
S127y . PASSENGER'S POWER WINDOW SWITCH ..	Center console near gearshift lever	30-1
S128y . LH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	Center console	
S128z . LH REAR POWER WINDOW SWITCH	Center console	
S129y . RH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	Center console	
S129z . RH REAR POWER WINDOW SWITCH	Center console	
S134y . IHKR CONTROL PANEL	Center of dash	
S8503 . PROGRAM SWITCH	Center console	
S8507 . KICK-DOWN SWITCH	LH footwell	
S8511 . REVERSING LIGHT SWITCH	Under front of car LH side of transmission	
T6151 . CYL. 1 IGNITION COIL	Top RH side of engine	13-1
T6151 . CYL. 1 IGNITION COIL	RH side of engine compartment (318i)	17-3
T6152 . CYL. 2 IGNITION COIL	Top RH side of engine	13-1
T6152 . CYL. 2 IGNITION COIL	RH side of engine compartment (318i)	17-3
T6153 . CYL. 3 IGNITION COIL	Top RH side of engine	13-1
T6153 . CYL. 3 IGNITION COIL	RH side of engine compartment (318i)	17-3
T6154 . CYL. 4 IGNITION COIL	Top RH side of engine	13-1
T6154 . CYL. 4 IGNITION COIL	RH side of engine compartment (318i)	17-3

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T6155 . CYL. 5 IGNITION COIL	Top RH side of engine	13-1
T6156 . CYL. 6 IGNITION COIL	Top RH side of engine	13-1
U4 TELEPHONE HANDSET	Below front of console	
V4 DAYTIME RUNNING LIGHTS CODING DIODE	LH side of dash	
V7 ASC DIODE	Top LH side of engine compartment in Front Power Distribution Box	
V9501 . UNCOUPLING DIODE (KL61)	Front of engine compartment	
X0 B+ JUNCTION POINT	Rear LH side of engine compartment	05-3
X2 BATTERY B+ START POINT	Rear LH side of engine compartment	05-3
X9 B+ JUNCTION POINT	Rear LH side of engine compartment	05-3
X11 ... CONNECTOR (55-PINS, BLACK)	Behind glove box (glove box removed)	01-3 00-1
X13 ... CONNECTOR (30-PINS, BLACK)	Behind LH footwell kickpanel	00-2 00-4
X14 ... CONNECTOR (30-PINS, WHITE)	Behind LH footwell kickpanel	00-2 00-4
X16 ... CONNECTOR (26-PINS, WHITE)	LH side of dash rear of A2 Instrument cluster	27-3 00-2
X17 ... CONNECTOR (26-PINS, BLUE)	LH side of dash rear of A2 Instrument cluster	27-3 00-2
X20 ... CONNECTOR (25-PINS, BLACK)	Rear LH side of engine compartment	18-3 05-2
X22 ... CONNECTOR (26-PINS, BLUE)	RH side of dash behind glove box	01-2 00-2
X31 ... CONNECTOR (12-PINS, BLACK)	Rear LH side of engine compartment back of LH side shock tower	16-2 01-6
X32 ... CONNECTOR (12-PINS, WHITE)	LH footwell underside of steering column	27-2 02-6
X33 ... CONNECTOR (12-PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	26-2 02-6
X35 ... CONNECTOR (12-PINS, NATURAL)	Below LH side of dash RH side of steering column	27-1 02-6

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COMPONENT	LOCATION	PAGE - FIGURE	
X43 ... CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment	04-6	
X44 ... CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment	04-6	
X45 ... CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment	04-6	
X51 ... CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment	04-6	
X52 ... CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment	04-6	
X53 ... CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment	04-6	
X54 ... CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment	04-6	
X55 ... CONNECTOR (9-PINS, BLACK)	Behind LH footwell speaker grille	04-6	
X56 ... CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment	04-6	
X58 ... CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment	04-6	
X61 ... CONNECTOR (9-PINS, BLACK)	Below LH side of dash	04-6	
X63 ... CONNECTOR (9-PINS, BLACK)	Behind LH footwell speaker grille	04-6	
X64 ... CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment	04-6	
X65 ... CONNECTOR (9-PINS, BLACK)	Below LH side of dash	04-6	
X69 ... CONNECTOR (25-PINS, GRAY)	Rear LH side of engine compartment (325i)	18-3	05-2
X70 ... CONNECTOR (8-PINS, BLACK)	Front LH side of engine compartment	18-2	02-2
X72 ... CONNECTOR (8-PINS, NATURAL)	LH footwell underside of steering column behind LH footwell trim	26-2	03-5
X72 ... CONNECTOR (6-PINS, NATURAL)	LH footwell underside of steering column behind LH footwell trim (late production)	04-2	
X74 ... CONNECTOR (30-PINS, ORANGE)	Under rear seats	32-3	10-1



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COMPONENT	PAGE - FIGURE
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X78 ... CONNECTOR (4-PINS, BLACK) LH footwell on brake pedal support bracket behind LH footwell trim	26-2 03-3
X82 ... CONNECTOR (3-PINS, BLACK) Front of engine compartment on auxiliary fan	18-1 08-1
X85 ... CONNECTOR (3-PINS, BLACK) Rear LH side of engine compartment	16-2 06-3
X87 ... CONNECTOR (3-PINS, BLACK) Front RH side of engine compartment RH top of radiator	09-3 06-3
X99 ... CONNECTOR (9-PINS, BLACK) Behind LH footwell speaker grille	03-6
X105 ... CONNECTOR (2-PINS, WHITE) On underside of engine hood	24-2
X106 ... CONNECTOR (2-PINS, WHITE) On underside of engine hood	24-2
X107 ... CONNECTOR (2-PINS, GRAY) Front RH side of engine compartment on washer fluid reservoir	10-1
X109 ... CONNECTOR (2-PINS, BLACK) Front RH side of engine compartment on washer fluid reservoir	10-1
X110 ... CONNECTOR (2-PINS, GRAY) Front RH side of engine compartment	
X111 ... CONNECTOR (2-PINS, BLACK) Rear LH side of engine compartment near brake master cylinder top of brake fluid reservoir	18-3
X112 ... CONNECTOR (2-PINS, BLACK) Front RH side of engine compartment	18-1
X113 ... CONNECTOR (2-PINS, GRAY) Above RH front wheel well behind RH front wheel	09-2
X114 ... CONNECTOR (2-PINS, GRAY) Above LH front wheel well behind LH front wheel	09-2
X116 ... CONNECTOR (2-PINS, BLACK) LH footwell on brake pedal support bracket behind LH footwell trim	26-3
X118 ... CONNECTOR (2-PINS, BLACK) Above LH front wheel well behind LH front wheel	09-2
X121 ... CONNECTOR (2-PINS, WHITE) LH footwell on clutch pedal support bracket	26-3
X123 ... CONNECTOR (2-PINS, GRAY) Front RH side of engine compartment on washer fluid reservoir	10-2
X126 ... CONNECTOR (2-PINS, BLACK) Front RH side of engine compartment near RH headlight assembly	09-3

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X127 .. CONNECTOR (2-PINS, NATURAL)	Front RH side of engine compartment near RH headlight assembly	09-3
X128 .. CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment	
X132 .. CONNECTOR (2-PINS, BLACK)	Front of engine compartment	
X133 .. CONNECTOR (2-PINS, BLACK)	Front of engine compartment	
X137 .. CONNECTOR (2-PINS, BLACK)	Front LH side of engine compartment	
X142 .. CONNECTOR (3-PINS, GRAY)	Under rear of car LH side of on differential	02-2
X143 .. CONNECTOR (3-PINS, GRAY)	Under rear of car LH side of on differential	08-1 02-1
X161 .. CONNECTOR (1-PINS, WHITE)	Near RH headlight assembly	
X163 .. CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment on washer fluid reservoir near RH headlight assembly	10-1 06-3
X165 .. GROUND	Front LH side of engine compartment	06-3
X173 .. GROUND	Below LH side of dash	07-1
X209 .. CONNECTOR (12-PINS, BLACK)	LH footwell underside of steering column	
X256 .. CONNECTOR (26-PINS, BLACK)	Ahead of RH front door in lower RH A-pillar	31-1 04-1
X257 .. CONNECTOR (26-PINS, BLACK)	Ahead of LH front door in lower LH A-pillar	04-1
X271 .. CONNECTOR (12-PINS, BLACK)	LH side of dash rear of A2 instrument cluster	27-3 01-3
X272 .. CONNECTOR (2-PINS, BLACK)	Under roof center panel	
X273 .. CONNECTOR (12-PINS, BLACK)	In lower LH B-pillar	20-3 01-2
X274 .. CONNECTOR (12-PINS, BLACK)	In lower RH B-pillar	20-3 01-2
X275 .. CONNECTOR (4-PINS, WHITE)	Under LH front seat under carpet	23-2 03-3



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X279 .. CONNECTOR (4-PINS, WHITE)	Under RH front seat	31-3	03-3
X285 .. CONNECTOR (15-PINS, BLUE)	Behind glove box (glove box removed)	25-2	00-3
X292 .. CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment	03-6	
X295 .. CONNECTOR (8-PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	26-2	03-5
X311 .. CONNECTOR (3-PINS, BLACK)	Underside of trunk lid left	34-2	04-6
X312 .. CONNECTOR (2-PINS, BLACK)	In RH rear side of luggage compartment behind RH rear light assembly	03-3	
X315 .. CONNECTOR (2-PINS, BLACK)	Underside of trunk lid left	34-2	
X316 .. CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	30-1	04-2
X317 .. CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	29-3	04-2
X318 .. CONNECTOR (8-PINS, BLACK)	In RH rear side of luggage compartment behind RH rear light assembly	03-3	01-4
X319 .. CONNECTOR (8-PINS, BLACK)	In LH rear side of luggage compartment behind LH rear light assembly	01-4	
X320 .. CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	29-3	04-2
X322 .. CONNECTOR (6-PINS, BLACK)	LH footwell	27-2	04-2
X324 .. CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	30-1	04-2
X333 .. CONNECTOR (4-PINS, BLACK)	Rear of engine compartment below center of cowl	16-1	07-2
X336 .. CONNECTOR (6-PINS, WHITE)	Under roof center panel	04-2	04-5
X351 .. CONNECTOR (2-PINS, BLACK)	In upper RH B-pillar		
X352 .. CONNECTOR (2-PINS, BLACK)	In upper LH B-pillar		
X355 .. CONNECTOR (2-PINS, BLACK)	In upper RH C-pillar	33-2	
X356 .. CONNECTOR (2-PINS, BLACK)	In upper LH C-pillar	33-1	

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X371 .. CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment	13-2
X372 .. CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment	13-2
X379 .. CONNECTOR (1-PINS, NATURAL)	In upper LH C-pillar	33-1
X380 .. CONNECTOR (1-PINS, NATURAL)	In upper RH C-pillar	33-2
X381 .. CONNECTOR (3-PINS, BLACK)	Above LH sun visor	23-1 01-1
X382 .. CONNECTOR (3-PINS, BLACK)	Above RH sun visor	32-2 01-1
X383 .. CONNECTOR (2-PINS, BLACK)	Under rear of car LH side of on differential	08-1
X386 .. CONNECTOR (2-PINS, BLACK)	REAR ASHTRAY LIGHT, E28y	
X388 .. CONNECTOR (2-PINS, BLACK)	In lower RH A-pillar	
X389 .. CONNECTOR (2-PINS, GRAY)	Rear LH side of engine compartment	
X390 .. CONNECTOR (2-PINS, BLACK)	RH side of dash behind glove box	
X400 .. CONNECTOR (8-PINS, BLACK)	In LH rear side of luggage compartment	03-5
X401 .. CONNECTOR (1-PINS, BLACK)	Above LH sun visor	23-1
X402 .. CONNECTOR (1-PINS, BLACK)	Above RH sun visor	32-2
X413 .. CONNECTOR (2-PINS, BLACK)	At back of rear window shelf	
X423 .. CONNECTOR (1-PINS, NATURAL)	Below center console on rear of park brake lever	
X424 .. CONNECTOR (1-PINS, BROWN)	In upper LH C-pillar	33-1
X494 .. GROUND	Center console near gearshift lever	07-2
X495 .. GROUND	Behind RH footwell trim above	07-3
X498 .. GROUND	Center console near gearshift lever	07-2



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X503 .. CONNECTOR (12-PINS, WHITE)	Below LH side of dash	26-1	02-6
X504 .. CONNECTOR (4-PINS, WHITE)	Below LH side of dash	26-1	03-3
X509 .. CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)		03-6
X510 .. CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)		03-6
X511 .. CONNECTOR (8-PINS, BLACK)	Center console near gearshift lever	29-3	01-4
X516 .. CONNECTOR (5-PINS, BLACK)	Center console	29-3	03-2
X517 .. CONNECTOR (4-PINS, BLACK)	Below LH side of dash	26-1	03-3
X518 .. CONNECTOR (4-PINS, BLACK)	LH footwell	27-2	03-3
X521 .. CONNECTOR (6-PINS, BLUE)	Center console		01-4
X522 .. CONNECTOR (3-PINS, WHITE)	LH footwell	27-2	04-6
X523 .. CONNECTOR (3-PINS, NATURAL)	LH side of dash		04-6
X531 .. CONNECTOR (1-PINS, NATURAL)	Center console near gearshift lever	29-2	
X532 .. CONNECTOR (2-PINS, BLACK)	Center console near gearshift lever	29-2	
X537 .. CONNECTOR (2-PINS, BLACK)	In upper LH front door behind door panel	30-3	
X538 .. CONNECTOR (2-PINS, BLACK)	RH front door behind door panel	31-1	
X539 .. CONNECTOR (2-PINS, BLACK)	Center console		
X540 .. CONNECTOR (2-PINS, BLACK)	Behind glove box (glove box removed)	32-1	
X541 .. CONNECTOR (1-PINS, NATURAL)	Behind glove box (glove box removed)	32-1	
X542 .. CONNECTOR (2-PINS, BLACK)	LH side of glove box (glove box removed)	25-1	
X603 .. CONNECTOR (6-PINS, (---))	Center console		05-1

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X604 .. CONNECTOR (6-PINS, (—))	Passenger's seat, right	05-1
X605 .. CONNECTOR (12-PINS, BLACK)	Below RH side of rear seat Convertible	02-3 01-3
X605 .. CONNECTOR (12-PINS, BLACK)	In LH side of luggage compartment	04-1 01-3
X606 .. CONNECTOR (26-PINS, BLACK)	Below RH side of rear seat Convertible	02-3 00-2
X606 .. CONNECTOR (26-PINS, BLACK)	In LH side of luggage compartment	04-1 00-2
X607 .. CONNECTOR (9-PINS, BLACK)	Below LH side of dash footwell, driver's side	03-6
X623 .. CONNECTOR (4-PINS, BLACK)	In upper LH front door behind door panel	09-6
X624 .. CONNECTOR (4-PINS, BLACK)	In upper RH front door behind door panel	31-1 03-3
X625 .. CONNECTOR (6-PINS, WHITE)	LH front door	30-3 06-1
X638 .. CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat	20-1
X641 .. CONNECTOR (6-PINS, BLACK)	RH front door behind door panel	08-2
X644 .. CONNECTOR (6-PINS, BLACK)	In lower LH rear door	05-3
X645 .. CONNECTOR (6-PINS, BLUE)	In lower LH rear door	06-2
X646 .. CONNECTOR (6-PINS, BLACK)	In lower RH rear door behind trim panel	06-2
X647 .. CONNECTOR (6-PINS, BLUE)	In lower RH rear door behind trim panel	08-4
X651 .. CONNECTOR (6-PINS, YELLOW)	Center console	29-2 04-5
X658 .. CONNECTOR (6-PINS, YELLOW)	Center console	29-1 04-5
X660 .. CONNECTOR (6-PINS, BLACK)	LH front door in door at key lock assembly	04-5
X662 .. CONNECTOR (6-PINS, GRAY)	Below RH side of dash center console right	28-3 04-5
X663 .. CONNECTOR (6-PINS, GRAY)	Below RH side of dash	04-5



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X669 .. CONNECTOR (6-PINS, GRAY)	Below LH side of dash RH side of steering column	28-2	04-5
X679 .. CONNECTOR (2-PINS, WHITE)	Below RH side of rear seat	20-1	
X692 .. CONNECTOR (3-PINS, BLACK)	Center console		02-1
X695 .. CONNECTOR (10-PINS, BLACK)	Below center console		02-4
X700 .. CONNECTOR (1-PINS, NATURAL)	Behind RH footwell speaker grille		
X701 .. CONNECTOR (1-PINS, NATURAL)	Behind LH footwell kickpanel		
X706 .. CONNECTOR (2-PINS, BLACK)	Center console	30-2	
X709 .. CONNECTOR (2-PINS, BLACK)	Underside of trunk lid, near license plate		09-1
X710 .. CONNECTOR (2-PINS, BLACK)	Underside of trunk lid, near license plate		09-1
X711 .. CONNECTOR (1-PINS, NATURAL)	Underside of trunk lid left		34-2
X712 .. CONNECTOR (1-PINS, NATURAL)	Underside of trunk lid left		
X713 .. CONNECTOR (2-PINS, BLACK)	Under rear of car LH side of on differential		08-1
X714 .. CONNECTOR (2-PINS, GRAY)	In lower LH rear door behind trim panel		
X720 .. CONNECTOR (2-PINS, GRAY)	In lower RH rear door behind trim panel		
X726 .. CONNECTOR (2-PINS, (---))	Under LH front seat	23-2	
X727 .. CONNECTOR (2-PINS, (---))	Under LH front seat		23-2
X728 .. CONNECTOR (2-PINS, (---))	Under LH front seat		23-2
X729 .. CONNECTOR (2-PINS, (---))	Under LH front seat		23-2
X732 .. CONNECTOR (4-PINS, BLACK)	Under LH front seat under carpet		03-3
X733 .. CONNECTOR (4-PINS, BLACK)	Under LH front seat under carpet		03-3

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X734 .. CONNECTOR (2-PINS, (---))	Under RH front seat		
X735 .. CONNECTOR (2-PINS, (---))	Under RH front seat		
X736 .. CONNECTOR (2-PINS, (---))	Under RH front seat		
X737 .. CONNECTOR (2-PINS, (---))	Under RH front seat		
X740 .. CONNECTOR (4-PINS, BLACK)	Under RH front seat	31-3	03-3
X741 .. CONNECTOR (4-PINS, BLACK)	Under RH front seat	31-3	03-3
X742 .. CONNECTOR (2-PINS, YELLOW)	RH front door in door at key lock assembly		
X744 .. CONNECTOR (2-PINS, GRAY)	RH front door behind door panel	31-1	
X746 .. CONNECTOR (2-PINS, BLACK)	RH front door behind door panel	31-1	
X747 .. CONNECTOR (2-PINS, YELLOW)	LH front door in door at key lock assembly	31-2	
X749 .. CONNECTOR (4-PINS, BLACK)	In upper LH front door	30-3	03-3
X751 .. CONNECTOR (2-PINS, WHITE)	LH front door in door at key lock assembly	31-2	
X752 .. CONNECTOR (2-PINS, GRAY)	LH front door in door at key lock assembly	31-2	
X757 .. CONNECTOR (2-PINS, BLACK)	LH front door	30-3	
X768 .. CONNECTOR (2-PINS, WHITE)	In the engine compartment near LH headlight assembly	08-2	
X769 .. CONNECTOR (2-PINS, WHITE)	In the engine compartment near RH headlight assembly	08-2	
X770 .. CONNECTOR (2-PINS, YELLOW)	Front RH side of engine compartment	15-1	
X771 .. CONNECTOR (2-PINS, BLACK)	RH side of LH footwell LH side of IHKR Plenum	27-1	
X772 .. CONNECTOR (2-PINS, WHITE)	Center console		
X773 .. CONNECTOR (2-PINS, WHITE)	Center console		

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X774 .. CONNECTOR (1-PINS, GRAY)	Rear of engine compartment behind RH fresh air cowl		
X778 .. CONNECTOR (3-PINS, BLACK)	In LH front seat belt buckle	23-2	01-1
X779 .. CONNECTOR (2-PINS, BLACK)	LH side of glove box (glove box removed)	25-1	
X782 .. CONNECTOR (2-PINS, BLACK)	Behind glove box (glove box removed)	32-1	
X783 .. CONNECTOR (2-PINS, ORANGE)	Underside of steering column		10-1
X786 .. CONNECTOR (2-PINS, BLACK)	UNDERHOOD LIGHT, E20		
X816 .. CONNECTOR (2-PINS, BLACK)	Rear of engine compartment behind RH fresh air cowl		
X817 .. CONNECTOR (1-PINS, BLACK)	Rear of engine compartment behind RH fresh air cowl		
X904 .. CONNECTOR (4-PINS, GRAY)	Behind center of dashboard	28-1	03-3
X905 .. CONNECTOR (5-PINS, BLACK)	Behind center of dashboard		
X998 .. CONNECTOR (4-PINS, BLACK)	Below center console		03-1
X999 .. CONNECTOR (4-PINS, BLACK)	Behind center of dashboard LH side of IHKR Plenum		03-1
X1001 .. CONNECTOR (4-PINS, BLACK)	RIGHT REAR SPEAKER, H45		03-3
X1002 .. CONNECTOR (4-PINS, (---))	LEFT REAR SPEAKER, H46		03-3
X1014 .. CONNECTOR (1-PINS, BLACK)	Center console near gearshift lever	29-2	
X1070 .. CONNECTOR (18-PINS, BLACK)	Center console	03-1	01-5
X1071 .. CONNECTOR (18-PINS, NATURAL)	Center console	03-1	01-5
X1074 .. CONNECTOR (15-PINS, WHITE)	Below LH side of dash	00-3	00-3
X1075 .. CONNECTOR (15-PINS, BLACK)	Below LH side of dash	00-3	00-3
X1082 .. CONNECTOR (9-PINS, BLACK)	Behind LH footwell speaker grille		03-6

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X1161 . CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment	03-6
X1162 . CONNECTOR (2-PINS, BLACK)	Near brake master cylinder	18-3
X1165 . GROUND	Below LH side of dash	07-1
X1166 . GROUND	Behind RH footwell trim above	07-3
X1171 . CONNECTOR (55-PINS, BLACK)	Behind glove box (glove box removed)	01-3 00-1
X1176 . CONNECTOR (25-PINS, BLACK)	LH side of engine compartment	05-3
X1178 . CONNECTOR (2-PINS, WHITE)	Below center console LH side of gearshift selector	
X1193 . CONNECTOR (3-PINS, BLACK)	Center console RH side of gearshift selector	01-1
X1213 . CONNECTOR (2-PINS, BLACK)	Center console	30-2
X1239 . CONNECTOR (2-PINS, BLACK)	RH C-Pillar	
X1240 . CONNECTOR (2-PINS, BLACK)	LH C-Pillar	
X1241 . CONNECTOR (2-PINS, NATURAL)	Below LH side of rear seat	21-1
X1242 . CONNECTOR (26-PINS, BLACK)	Behind glove box (glove box removed)	01-1 00-2
X1243 . CONNECTOR (6-PINS, BLACK)	Center console near gearshift lever	30-1 04-2
X1245 . CONNECTOR (1-PINS, BLACK)	Above LH sun visor	
X1246 . CONNECTOR (1-PINS, BLACK)	Above RH sun visor	
X1380 . CONNECTOR (1-PINS, NATURAL)	Behind RH footwell speaker grille	
X1381 . CONNECTOR (1-PINS, NATURAL)	Behind LH footwell kickpanel	
X1426 . CONNECTOR (1-PINS, BROWN)	Rear RH side of engine compartment in E-Box	
X5013 . CONNECTOR (2-PINS, BLACK)	LH side of engine (M3)	14-2



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X5013 . CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X5020 . CONNECTOR (2-PINS, BLACK)	Front of engine compartment (M3)		
X5021 . CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X5022 . CONNECTOR (3-PINS, BLACK)	Front of engine compartment (M3)	12-2	07-3
X5023 . CONNECTOR (3-PINS, BLACK)	RH front of engine (M3)	12-1	07-3
X5023 . CONNECTOR (3-PINS, BLACK)	Front of engine compartment		07-3
X5024 . CONNECTOR (15-PINS, WHITE)	Rear RH side of engine compartment	04-3	01-3
X5028 . CONNECTOR (4-PINS, BLACK)	Lower LH side of engine (M3)		03-4
X5029 . CONNECTOR (10-PINS, BLACK)	Front LH side of engine compartment in Front Power Distribution Box		09-1
X5032 . CONNECTOR (15-PINS, BLACK)	Front of engine compartment		00-3
X6000 . CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment	00-1	06-1
X6002 . CONNECTOR (20-PINS, BLACK)	Rear RH side of engine compartment	05-1	04-4
X6101 . CONNECTOR (2-PINS, BLACK)	On throttle body (M3)		11-2
X6101 . CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6102 . CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6103 . CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6104 . CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6105 . CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6106 . CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6120 . CONNECTOR (2-PINS, BLACK)	LH side of engine compartment right of LH side shock tower	20-2	

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X6130 . CONNECTOR (3-PINS, GRAY)	RH front of engine below intake manifold (325i)	11-3	07-3
X6130 . CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment (M3)	14-3	
X6133 . CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X6151 . CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6152 . CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6153 . CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6154 . CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6155 . CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6156 . CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6200 . CONNECTOR (4-PINS, BLACK)	Under center of car	15-3	03-4
X6203 . CONNECTOR (3-PINS, BLACK)	Front of engine below Intake manifold (M3)	12-2	07-4
X6204 . CONNECTOR (3-PINS, BLACK)	Front of engine below Intake manifold (M3)	12-2	07-3
X6205 . CONNECTOR (2-PINS, BLACK)	LH side of engine (near oil level stick)	13-3	
X6208 . CONNECTOR (2-PINS, BLACK)	Front of engine CAMSHAFT ACTUATOR, B6208		
X6209 . CONNECTOR (3-PINS, BLACK)	Front of engine HALL EFFECT CAMSHAFT SENSOR, B6209		
X6217 . CONNECTOR (4-PINS, GRAY)	Top front of engine		07-2
X6231 . CONNECTOR (2-PINS, BROWN)	RH front of engine below Intake manifold (near oil level stick) (325i)	11-1	
X6231 . CONNECTOR (2-PINS, BLACK)	LH side of engine compartment (near oil level stick) (M3)	14-2	
X6231 . CONNECTOR (2-PINS, BROWN)	RH front of engine below Intake manifold (318i)	17-1	
X6232 . CONNECTOR (2-PINS, BLACK)	RH front of engine below intake manifold (325i)	11-3	



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X6232 . CONNECTOR (2-PINS, BLACK)	RH front of engine (M3)	12-1	
X6232 . CONNECTOR (2-PINS, BLACK)	RH front of engine below intake manifold (318i)	17-2	
X6233 . CONNECTOR (7-PINS, BLACK)	LH side of engine compartment right of LH side shock tower		04-3
X6236 . CONNECTOR (2-PINS, BLUE)	RH front of engine below intake manifold (325i)	11-1	
X6236 . CONNECTOR (2-PINS, BLUE)	RH front of engine (M3)	12-1	
X6236 . CONNECTOR (2-PINS, BLUE)	RH front of engine below intake manifold (318i)	17-2	
X6238 . CONNECTOR (2-PINS, BLACK)	LH side of engine (M3)	14-2	
X6241 . CONNECTOR (3-PINS, BLACK)	LH side of engine (M3)	14-1	07-5
X6241 . CONNECTOR (3-PINS, BLACK)	LH side of engine (318i)	16-3	07-5
X6242 . CONNECTOR (2-PINS, BLACK)	LH side of engine (M3)	14-1	07-3
X6242 . CONNECTOR (3-PINS, BLACK)	LH side of engine (318i)	16-3	07-5
X6243 . CONNECTOR (3-PINS, BLACK)	LH side of engine (M3)	14-1	07-5
X6252 . CONNECTOR (3-PINS, BLACK)	LH side of engine (M3)	11-2	07-3
X6252 . CONNECTOR (3-PINS, BLACK)	LH side of engine (near oil level stick) (320i-325i)	13-3	07-3
X6300 . CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		03-6
X6301 . CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		03-6
X6303 . CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		03-6
X6307 . CONNECTOR (10-PINS, BLACK)	Front of engine compartment		09-1
X6454 . GROUND	Rear RH side of engine compartment back of RH side shock tower	06-2	
X6456 . GROUND	RH front of engine (325i)	11-3	

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X6509 . CABLE SOCKET ALTERNATOR B+	Front LH side of engine compartment	05-2
X6510 . CABLE SOCKET STARTER TERMINAL 50	Rear LH side of engine compartment below intake manifold	
X6511 . CABLE SOCKET ALTERNATOR TERMINAL 30h	Rear LH side of engine compartment below intake manifold	
X6512 . CABLE SOCKET STARTER TERMINAL 30h	Rear LH side of engine compartment below intake manifold	
X7000 . CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment	00-1 06-1
X7509 . CABLE SOCKET ALTERNATOR TERMINAL D+	Front LH side of engine compartment below	
X8500 . CONNECTOR (55-PINS, BLACK)	Rear RH side of engine compartment	00-1 00-1
X8503 . CONNECTOR (10-PINS, WHITE)	Center console RH side of gearshift selector	30-1 02-4
X8507 . CONNECTOR (1-PINS, BLACK)	Below LH side of dash	
X8511 . CONNECTOR (2-PINS, BLACK)	Under front of car LH side of transmission	
X8516 . CONNECTOR (2-PINS, BLACK)	Under center of car above	
X8521 . CONNECTOR (9-PINS, BLACK)	Under center of car above	
X9997 . CONNECTOR (2-PINS, ORANGE)	Behind steering wheel	24-1
X10012 GROUND	Behind RH footwell trim above	07-3
X10013 CONNECTOR (1-PINS, (---))	Top of steering column	
X10015 CONNECTOR (20-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90	
X10016 CONNECTOR (20-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90	



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X10017	CONNECTOR (20-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90	
X10018	CONNECTOR (32-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90	
X10026	CONNECTOR (6-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90	
X10030	CONNECTOR (5-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90	
X10031	CONNECTOR (9-PINS, BLACK)	Below LH side of dash	03-6
X10034	CONNECTOR (2-PINS, (---))	Rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90	
X10035	CONNECTOR (2-PINS, (---))	Rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90	
X10036	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90	
X10054	CONNECTOR (12-PINS, BLACK)	Below LH side of dash RH side of steering column	27-1 02-6
X10065	CONNECTOR (2-PINS, WHITE)	LH side of LH footwell under footrest	
X10070	CONNECTOR (2-PINS, GRAY)	Near LH headlight assembly	
X10071	CONNECTOR (2-PINS, BLACK)	Near LH headlight assembly	
X10074	CONNECTOR (2-PINS, BLACK)	Near LH headlight assembly	
X10075	CONNECTOR (2-PINS, GRAY)	Near RH headlight assembly	
X10092	CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)	25-2 03-6
X10094	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment	

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COMPONENT

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X10098	CONNECTOR (1-PINS, (---))	Front RH side of engine compartment		
X10099	CONNECTOR (1-PINS, (---))	Front RH side of engine compartment		
X10182	CONNECTOR (18-PINS, BLACK)	Behind glove box (glove box removed)	01-5	
X10193	CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)	03-6	
X10218	CONNECTOR (3-PINS, NATURAL)	Under RH front seat	01-1	
X10223	CONNECTOR (3-PINS, BLACK)	Left in convertible top compartment	21-3	04-6
X10224	CONNECTOR (2-PINS, BLACK)	Left in convertible top compartment	21-3	
X10225	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid	01-1	
X10226	CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)	25-2	03-6
X10238	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment		
X10239	CONNECTOR (3-PINS, BLACK)	LH side of engine compartment		09-4
X10240	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		01-1
X10244	CONNECTOR (1-PINS, BLACK)	Below LH side of dash		
X10250	CONNECTOR (2-PINS, (---))	Behind LH footwell speaker grille		
X11205	CONNECTOR (2-PINS, BLACK)	In convertible top compartment behind rear seats		
X11209	CONNECTOR (2-PINS, BLACK)	In convertible top compartment behind rear seats		
X11211	CONNECTOR (2-PINS, (---))	In convertible top compartment		
X13004	GROUND	In upper RH rear seatback	06-1	
X13006	GROUND	In upper LH rear seatback		
X13009	GROUND	Behind RH footwell trim above	07-3	
X13016	GROUND	Below LH side of dash	07-1	



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X13025	CONNECTOR (12-PINS, BLACK)	Behind glove box (glove box removed)	01-3	02-6
X13026	CONNECTOR (1-PINS, BLACK)	LH side of dash		
X13044	CONNECTOR (12-PINS, BLACK)	In lower LH C-pillar behind side panel	02-1	01-3
X13045	CONNECTOR (6-PINS, GREEN)	Center console		05-3
X13079	CONNECTOR (3-PINS, YELLOW)	Behind rear seats, left		01-1
X13142	CONNECTOR (2-PINS, WHITE)	Behind rear seats	21-2	
X13143	CONNECTOR (3-PINS, BLACK)	Behind rear seats, left		01-1
X13145	CONNECTOR (6-PINS, BLACK)	In LH side of luggage compartment	34-3	04-2
X13145	CONNECTOR (6-PINS, BLACK)	In convertible top compartment		04-2
X13146	CONNECTOR (2-PINS, BLACK)	In LH side of luggage compartment	34-1	
X13152	CONNECTOR (4-PINS, BLACK)	In LH side of luggage compartment	34-1	07-6
X13156	CONNECTOR (10-PINS, BLACK)	In lower LH C-pillar behind side panel	02-1	11-4
X13157	CONNECTOR (6-PINS, BLACK)	In lower LH C-pillar behind side panel	02-1	05-3
X13159	CONNECTOR (26-PINS, BLACK)	In lower LH C-pillar behind side panel	02-1	00-2
X13226	CONNECTOR (2-PINS, BLACK)	Behind rear seats		
X13227	CONNECTOR (2-PINS, BLACK)	Behind rear seats		
X13230	GROUND	Behind RH footwell trim above	07-3	
X13252	CONNECTOR (15-PINS, YELLOW)	Behind glove box (glove box removed)	01-1	00-3
X13253	CONNECTOR (26-PINS, YELLOW)	Behind glove box (glove box removed)	01-1	00-2
X13254	CONNECTOR (26-PINS, GREEN)	Behind glove box (glove box removed)	01-1	00-2

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X13255	CONNECTOR (12-PINS, NATURAL)	Behind glove box (glove box removed)	01-3
X13256	CONNECTOR (2-PINS, GRAY)	Left from LH rear seat behind trim panel	22-1
X13257	CONNECTOR (2-PINS, GRAY)	RH side of RH rear seat behind trim panel	22-1
X13258	CONNECTOR (15-PINS, WHITE)	Behind glove box (glove box removed)	25-2 00-3
X13262	CONNECTOR (6-PINS, BLUE)	Center console	05-3
X13263	CONNECTOR (2-PINS, BLACK)	Above glove box (glove box removed)	25-1
X18080	CONNECTOR (1-PINS, NATURAL)	In luggage compartment	
X18126	CONNECTOR (17-PINS, BLACK)	Center console behind radio	02-3
X18154	CONNECTOR (26-PINS, BLUE)	Center console	00-2
X18155	CONNECTOR (26-PINS, WHITE)	Center console	03-2 00-2
X18156	CONNECTOR (26-PINS, BLACK)	Center console	03-2 00-2
X18157	CONNECTOR (26-PINS, BLUE)	Center console	03-2 00-2
X18180	CONNECTOR (3-PINS, WHITE)	In RH rear side of luggage compartment	03-3 02-1
X18196	CONNECTOR (10-PINS, BLACK)	Driver's door LEFT FRONT HIGH RANGE SPEAKER, H59	02-4
X18198	CONNECTOR (10-PINS, BLACK)	Passenger's door RIGHT FRONT HIGH RANGE SPEAKER, H50	02-4
X18277	CONNECTOR (2-PINS, BLACK)	LH front door	31-2
X18295	CONNECTOR (2-PINS, YELLOW)	In lower RH B-pillar behind trim panel	
X18296	CONNECTOR (2-PINS, YELLOW)	LH front door	31-2
X18336	CONNECTOR (3-PINS, BLACK)	Above glove box (glove box removed)	25-1 01-1

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X18500	CONNECTOR (25-PINS, (---))	Center console	
X18507	CONNECTOR (2-PINS, (---))	Center console	
X18509	CONNECTOR (8-PINS, (---))	Center console	
X18515	CONNECTOR (2-PINS, (---))	LH side of LH footwell behind trim panel	
X18518	CONNECTOR (3-PINS, BLACK)	Under RH front seat	01-1
X18520	CONNECTOR (10-PINS, (---))	Center console RADIO, N9	
X18521	CONNECTOR (10-PINS, (---))	RH side of luggage compartment CD CHANGER, N22	
X18723	GROUND	Below LH side of dash	
X18741	CONNECTOR (4-PINS, (---))	Center of dash MICROPHONE, B400	
X18797	CONNECTOR (1-PINS, NATURAL)	In RH rear side of luggage compartment	
X18798	CONNECTOR (1-PINS, NATURAL)	In RH rear side of luggage compartment	
Y1 ABS HYDRAULIC UNIT Rear LH side of engine compartment back of LH side shock tower	16-2
Y2 AIR CONDITIONING COMPRESSOR Front of engine	
Y4 WATER VALVE ASSEMBLY Rear LH side of engine compartment	16-2
Y5 DRIVER'S SIDE MIRROR In upper LH front door	
Y6 PASSENGER'S SIDE MIRROR In upper RH front door	
Y19	... SHIFT-LOCK Center console RH side of gearshift selector	
Y1w	... ABS HYDRAULIC UNIT LH side of engine compartment	
Y85	... LH ROLLOVER PROTECTION ACTUATOR Behind rear seats Convertible	02-3
Y86	... RH ROLLOVER PROTECTION ACTUATOR Behind rear seats Convertible	02-3

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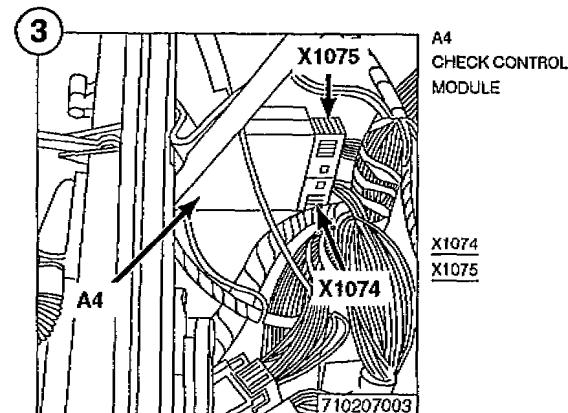
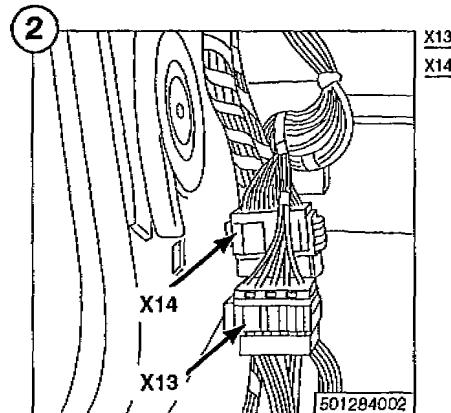
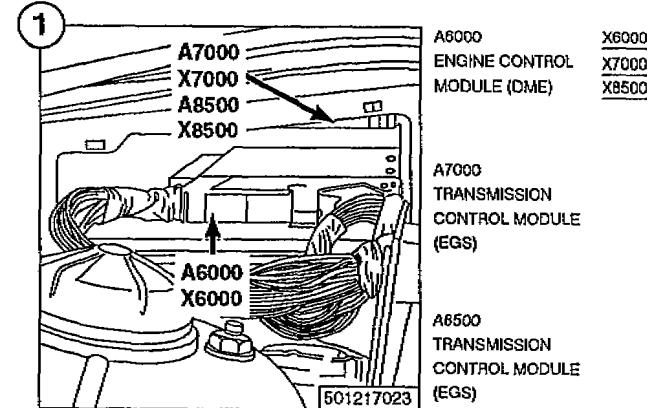
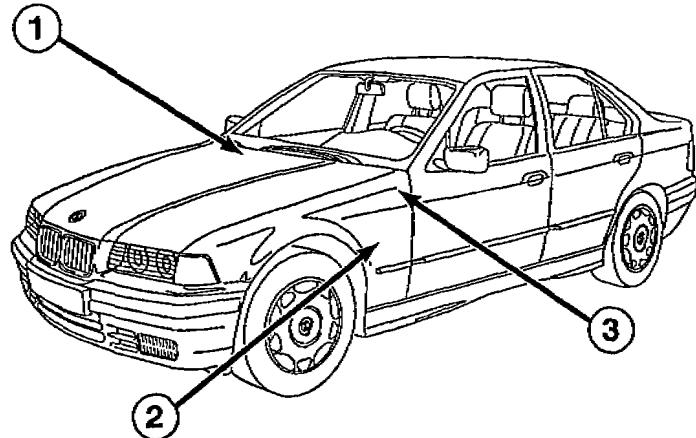


COMPONENT LOCATION CHART

COMPONENT

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Y5013 . CHANGE-OVER VALVE	LH side of engine (M3)	14-2
Y5020 . VARIABLE CAMSHAFT CONTROL VALVE 1 ..	RH front of engine (M3)	11-2
Y5021 . VARIABLE CAMSHAFT CONTROL VALVE 2 ..	Front of engine compartment (M3)	
Y6101 . CYL. 1 FUEL INJECTION VALVE	RH front of engine (M3)	11-2
Y6101 . CYL. 1 FUEL INJECTION VALVE	Top center of engine	12-3
Y6102 . CYL. 2 FUEL INJECTION VALVE	Top center of engine	12-3
Y6103 . CYL. 3 FUEL INJECTION VALVE	Top center of engine	12-3
Y6104 . CYL. 4 FUEL INJECTION VALVE	Top center of engine	12-3
Y6105 . CYL. 5 FUEL INJECTION VALVE	Top center of engine	12-3
Y6106 . CYL. 6 FUEL INJECTION VALVE	Top center of engine	12-3
Y6120 . EVAPORATIVE EMISSION VALVE	LH side of engine compartment right of LH side shock tower	20-2
Y6130 . IDLE SPEED CONTROL VALVE	RH front of engine below intake manifold (325i)	11-3
Y6130 . IDLE SPEED CONTROL VALVE	Rear LH side of engine compartment (M3)	14-3
Y6208 . CAMSHAFT ACTUATOR	Front of engine compartment	
Y8505y TRANSMISSION VALVE UNIT	On LH side of transmission	





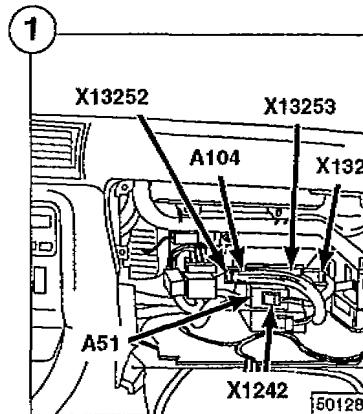
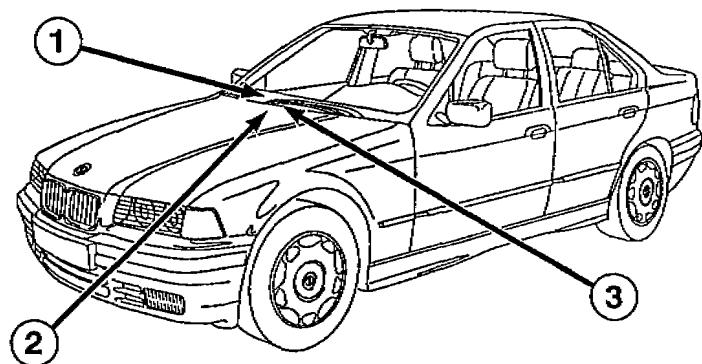
COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

12/94

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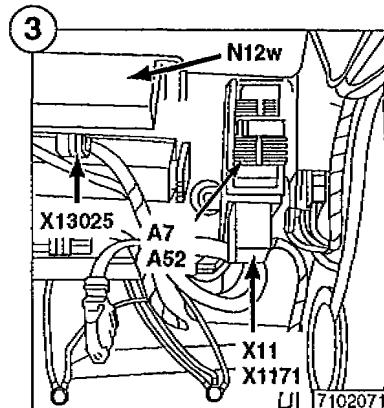
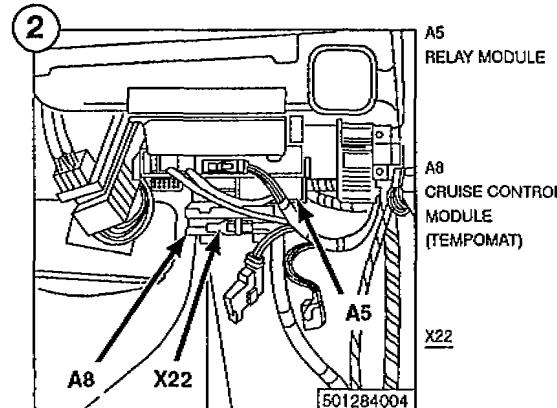
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- A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)

A51
WIPER/WASHER
MODULE

X1242
X13252
X13253
X13254

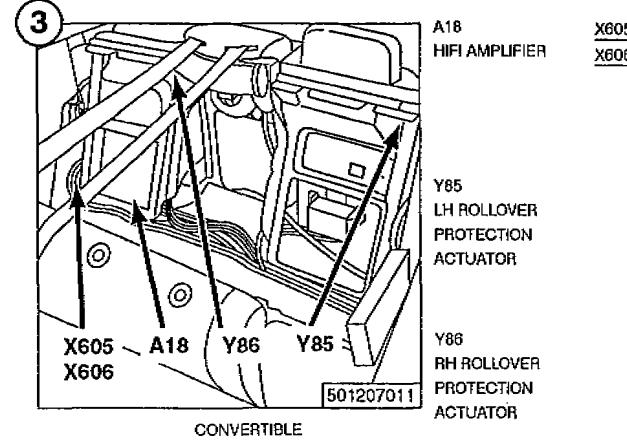
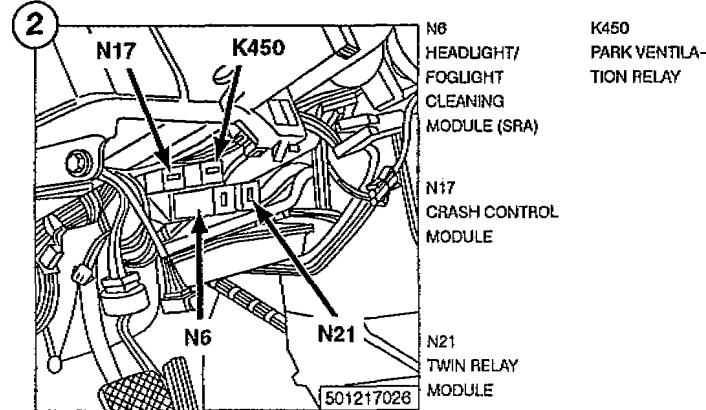
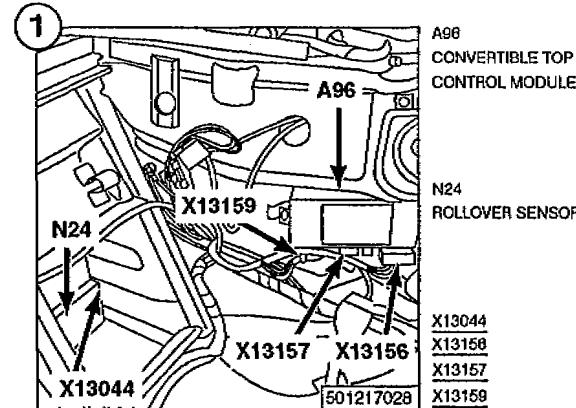
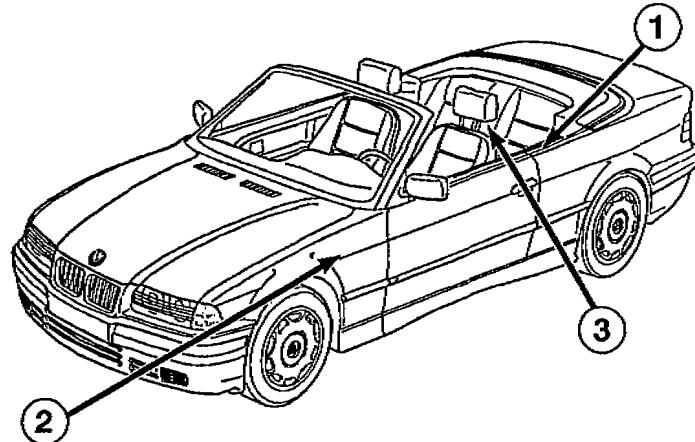
X1242
501284003

- A7
SLIP CONTROL
MODULE (ABS)

X11
X1171
X13025

- A52
SLIP CONTROL
MODULE
(ABS/ASC)

- N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)





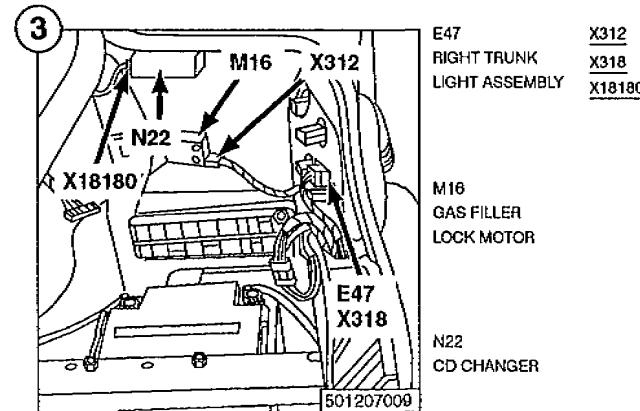
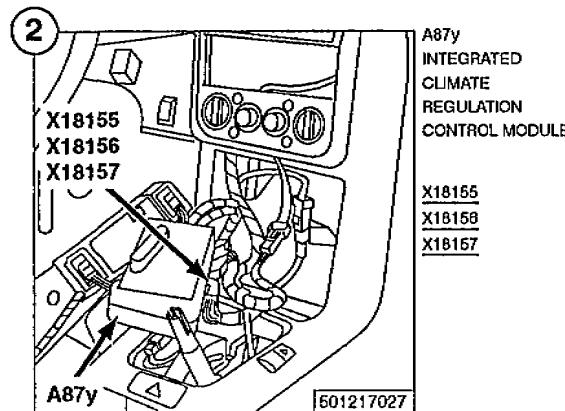
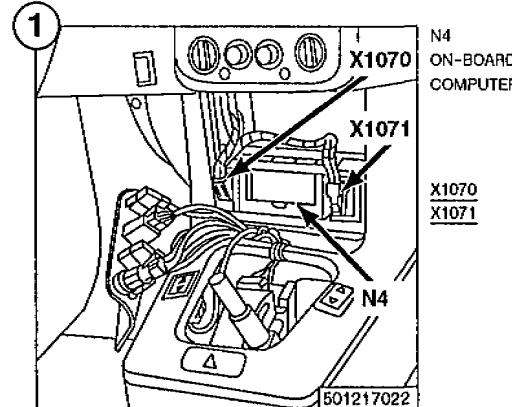
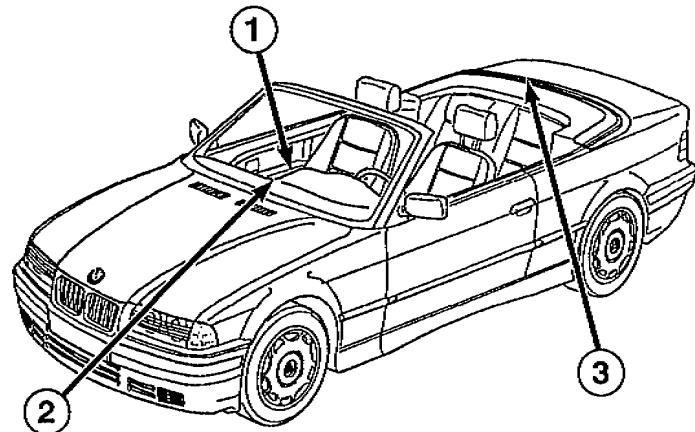
COMPONENT LOCATION VIEWS

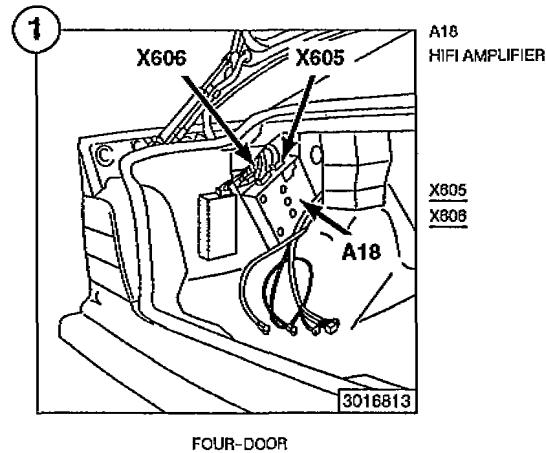
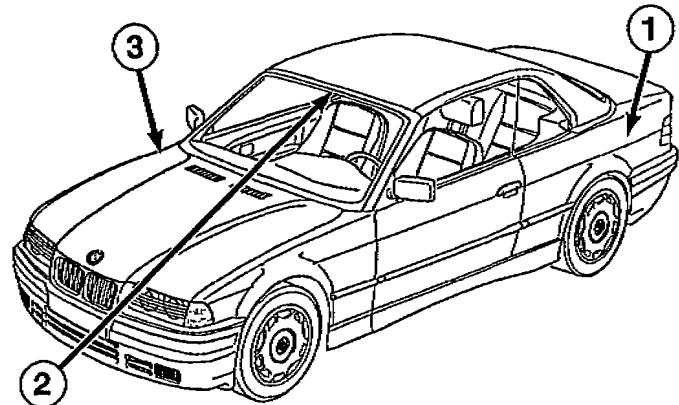
ELECTRICAL CONTROL MODULE LOCATIONS

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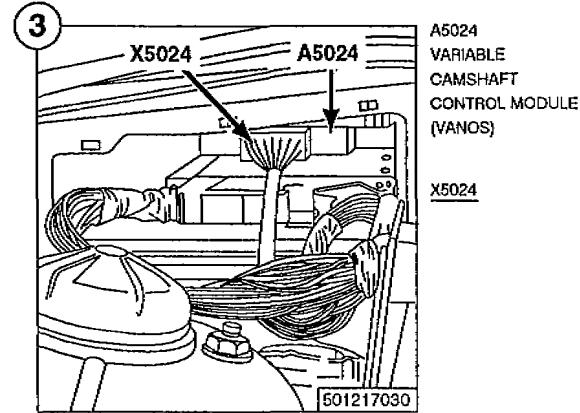
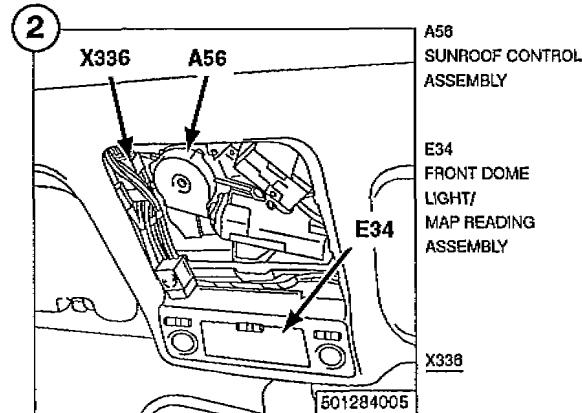
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1994

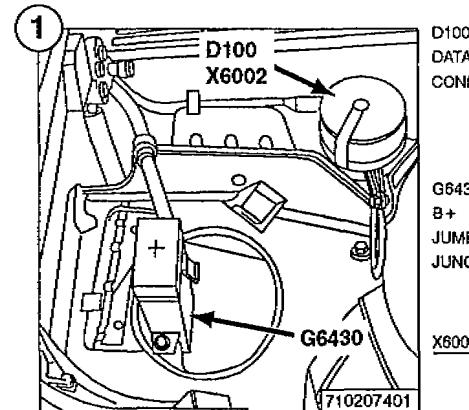
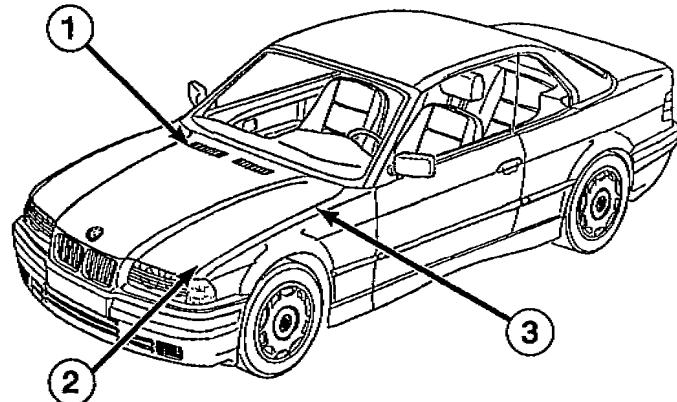




FOUR-DOOR



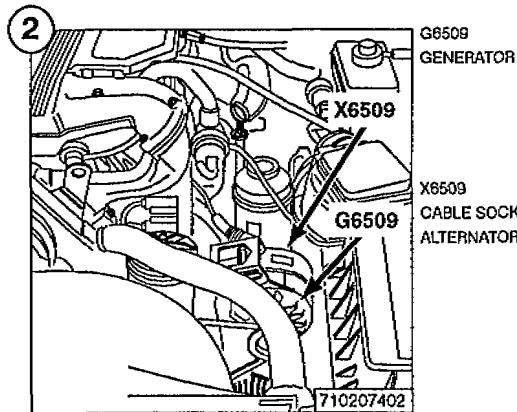
M3 CDN

B(+)

D100
DATA LINK
CONNECTOR

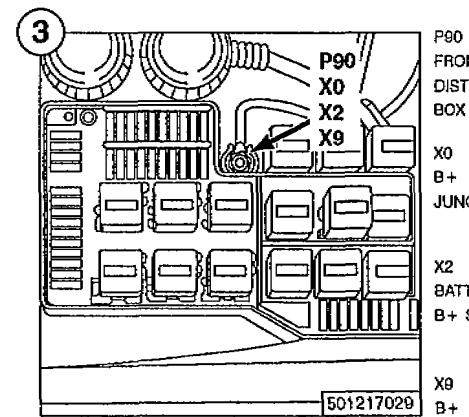
G6430
B+
JUMP START
JUNCTION POINT

X6002



G6509
GENERATOR

X6509
CABLE SOCKET
ALTERNATOR B+

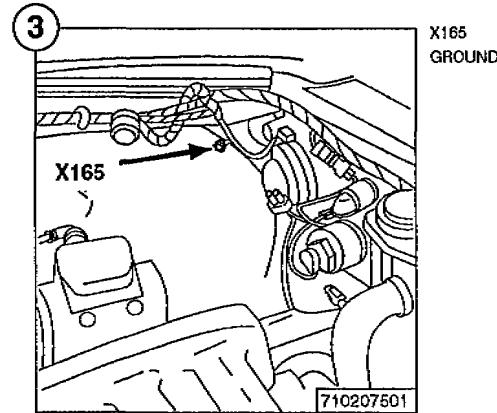
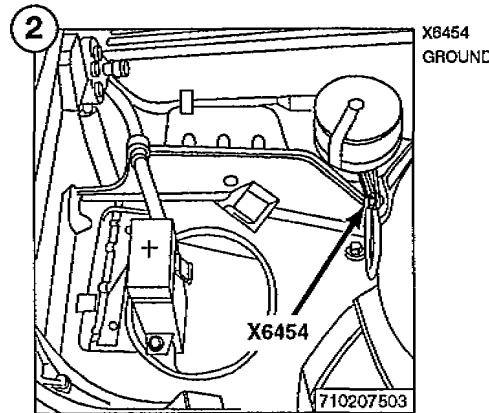
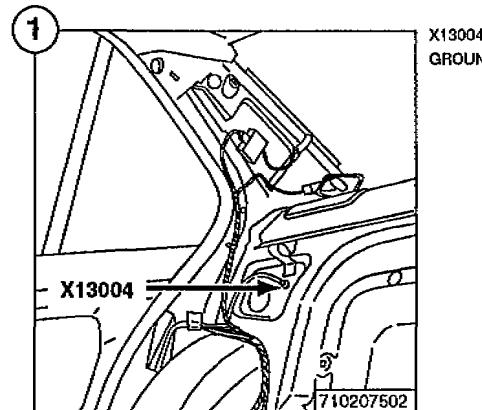
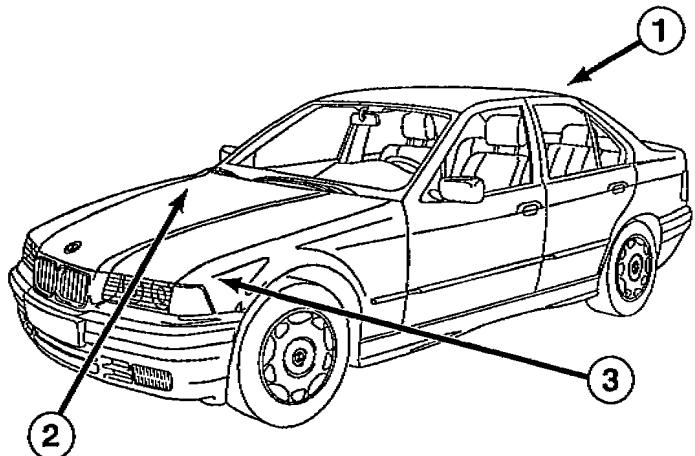


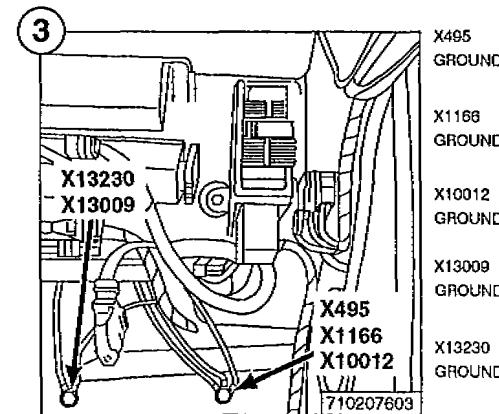
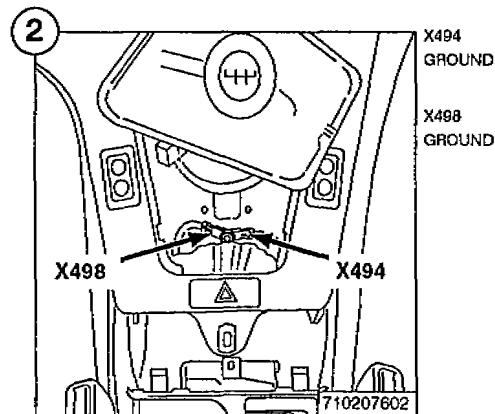
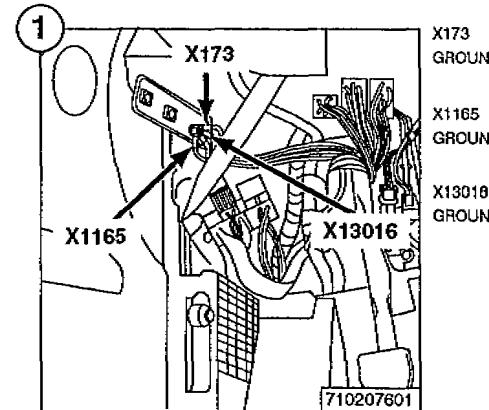
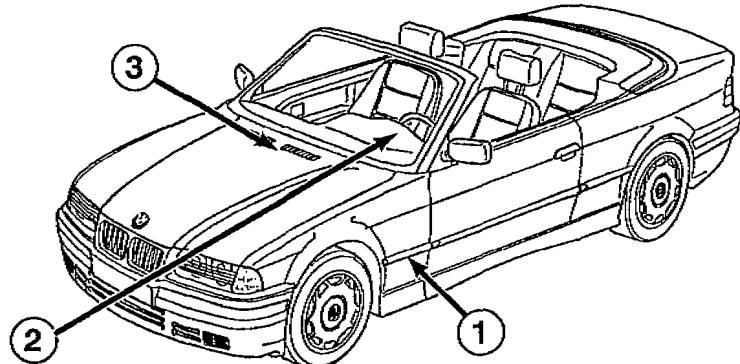
P90
FRONT POWER
DISTRIBUTION
BOX

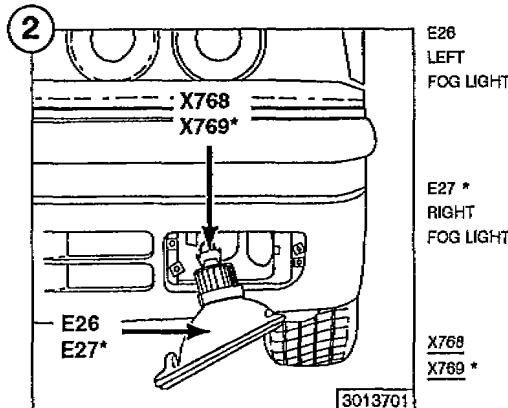
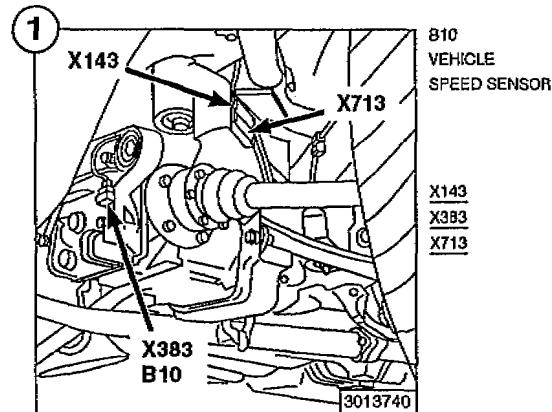
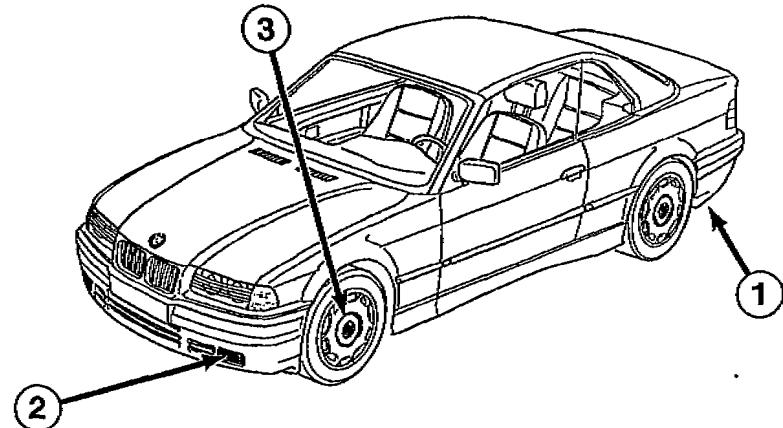
X0
B+
JUNCTION POINT

X2
BATTERY
B+ START POINT

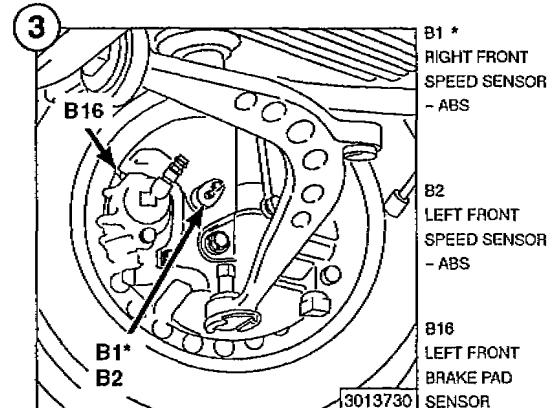
X9
B+
JUNCTION POINT

B(-)

B(-)



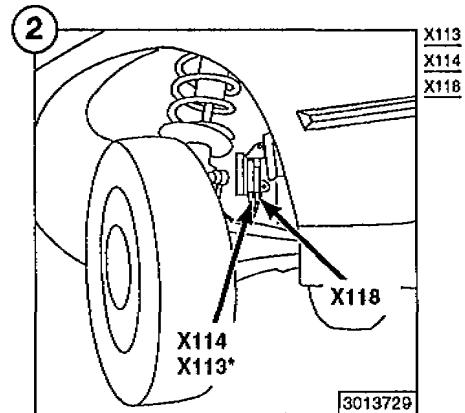
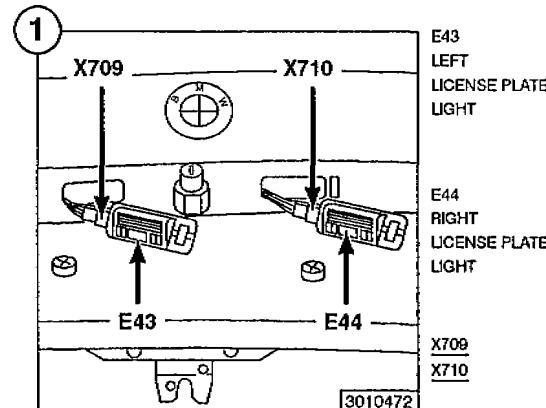
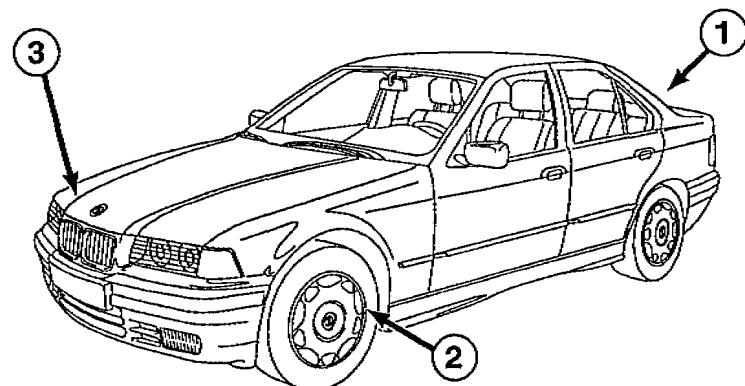
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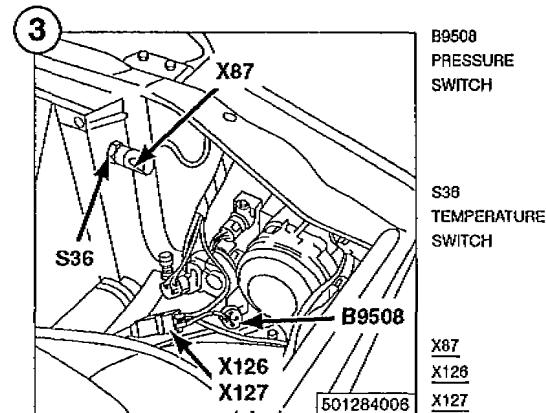
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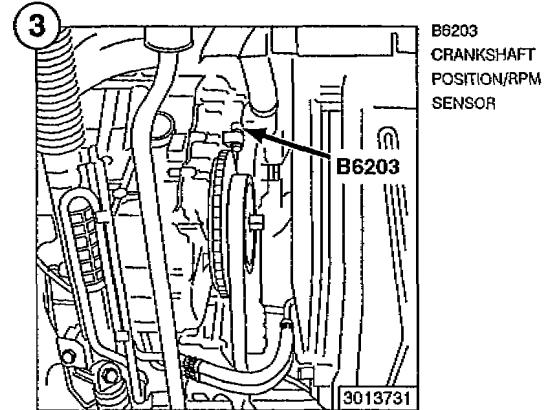
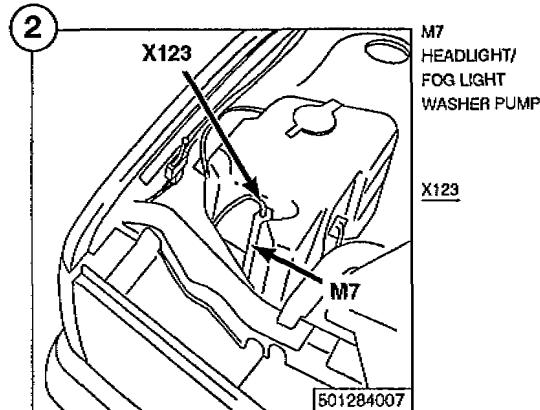
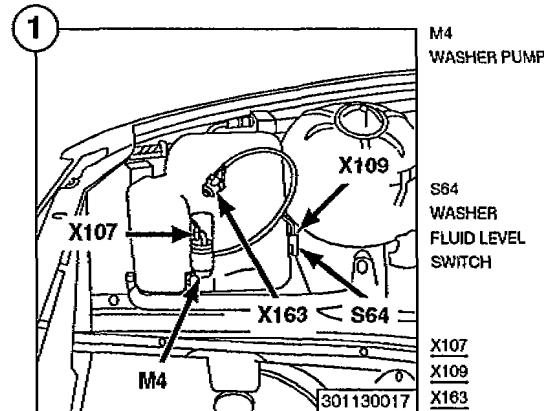
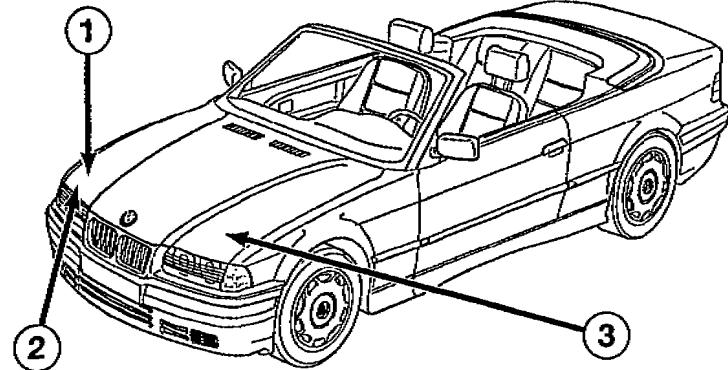


COMPONENT LOCATION VIEWS

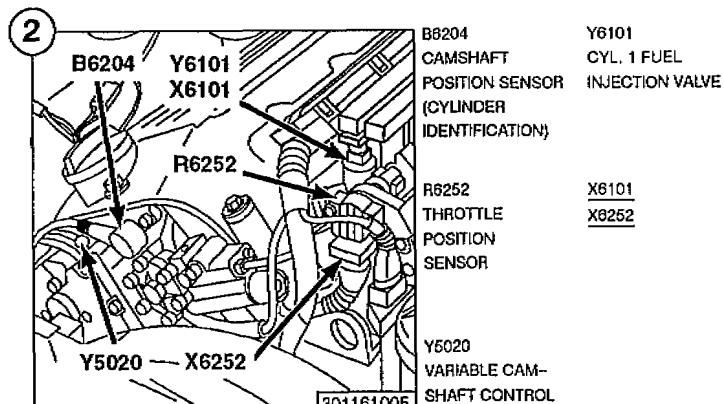
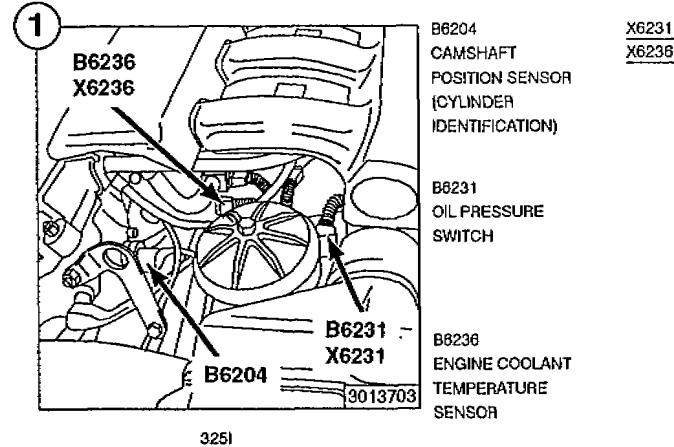
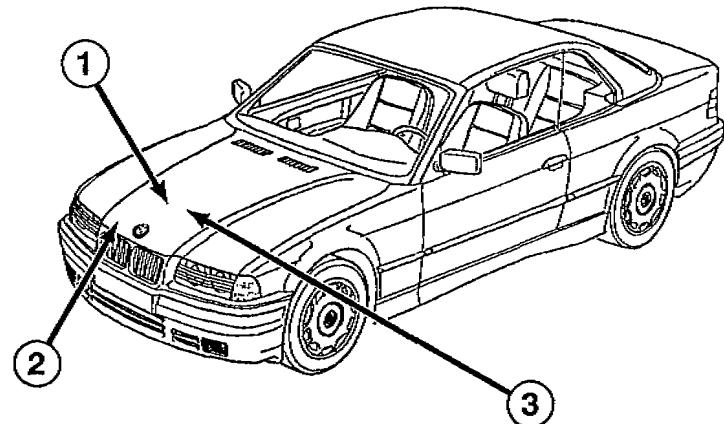


* RH similar

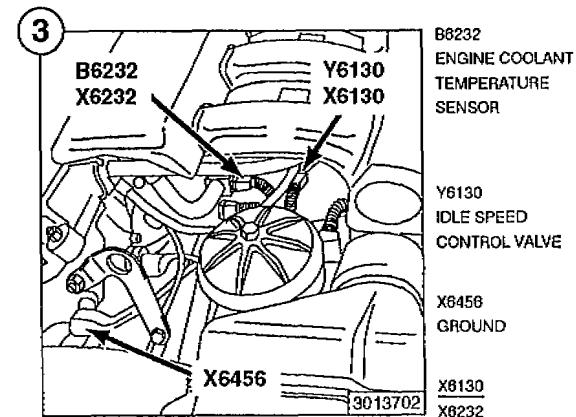


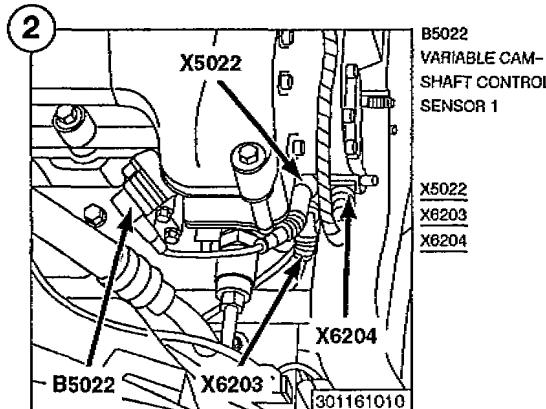
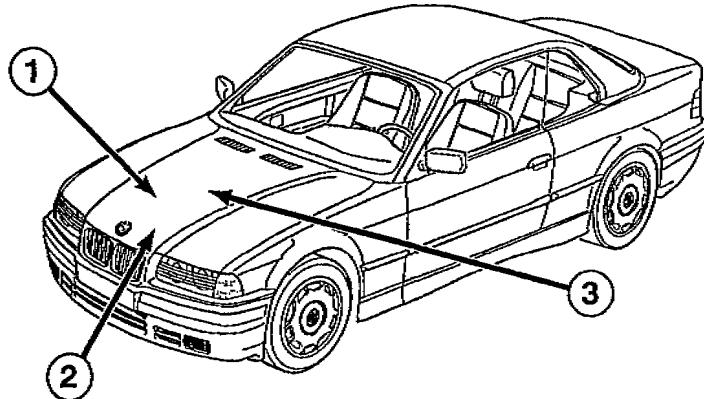


COMPONENT LOCATION VIEWS

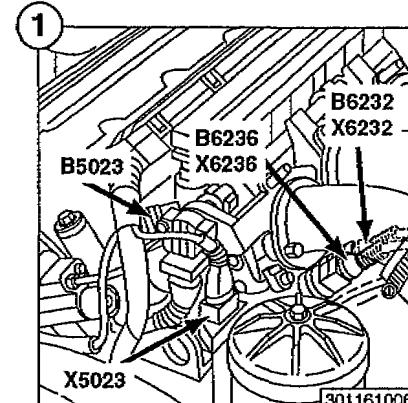


M3

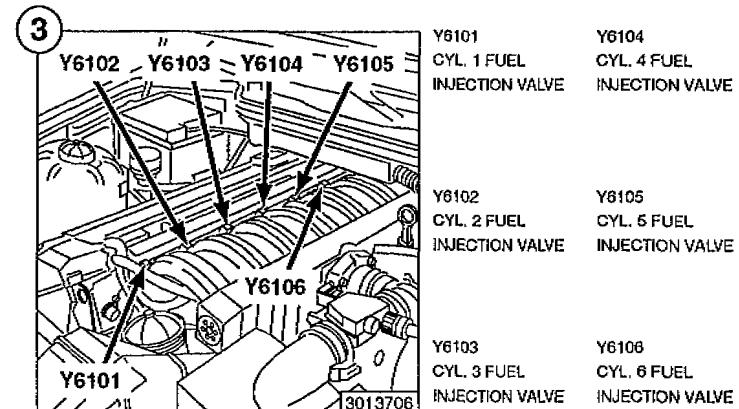




M3



M3



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

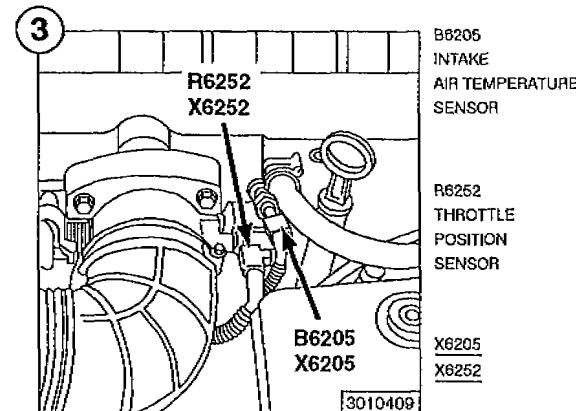
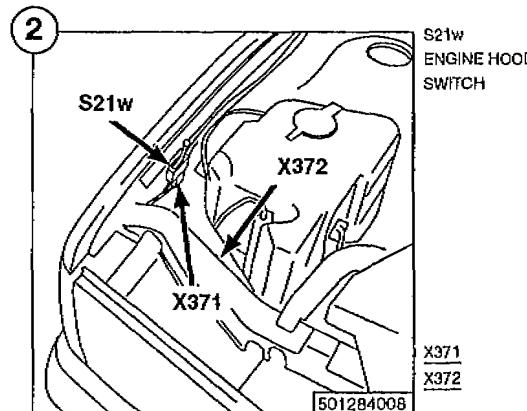
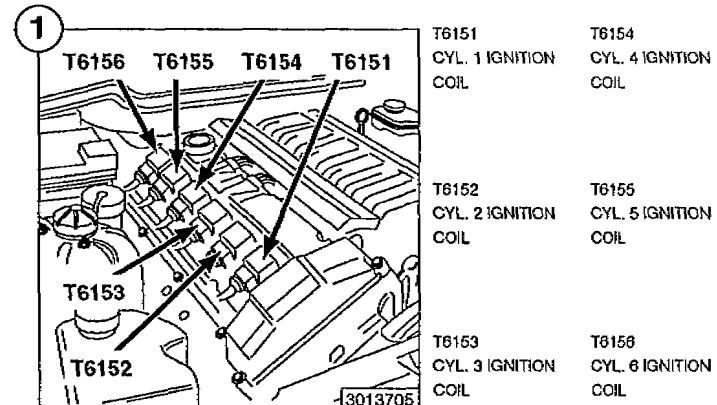
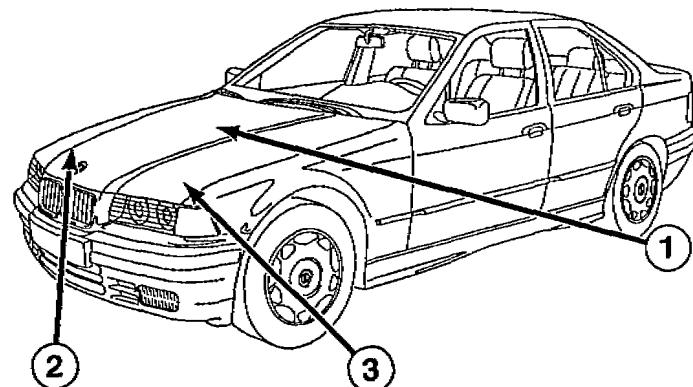


COMPONENT LOCATION VIEWS

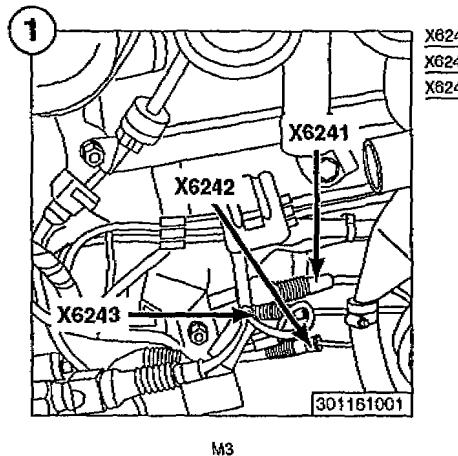
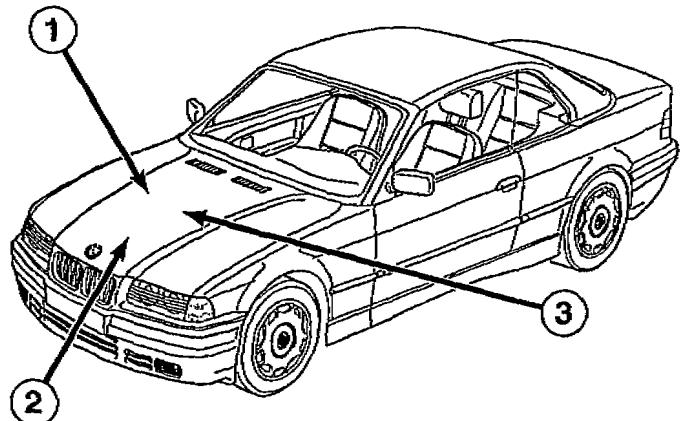
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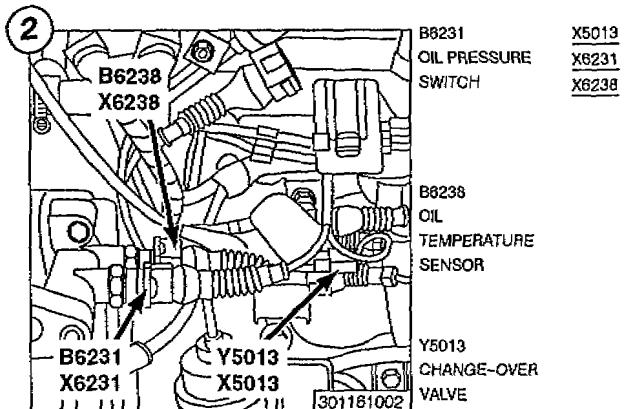
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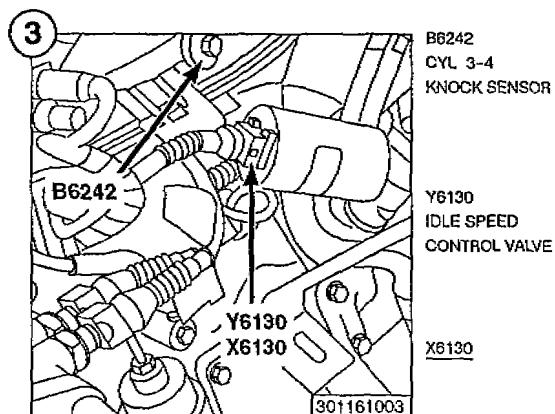
COMPONENT LOCATION VIEWS



M3



M3



M3

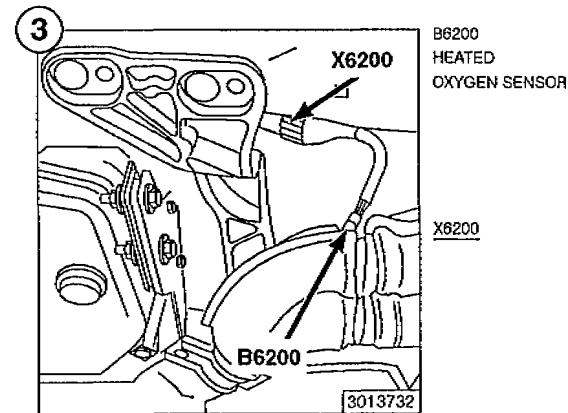
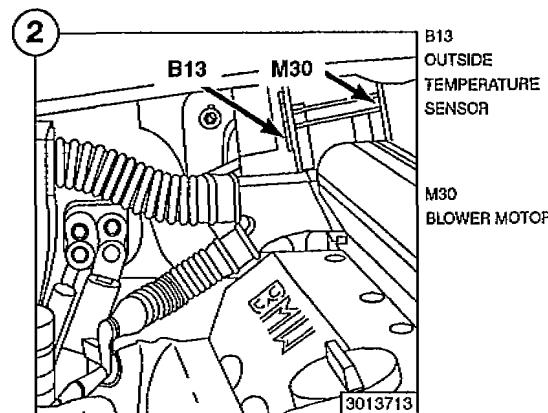
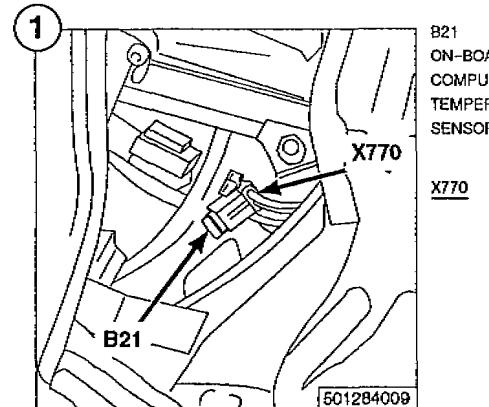
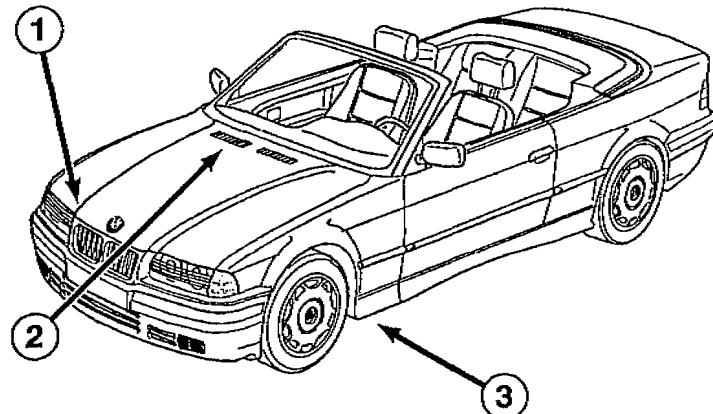


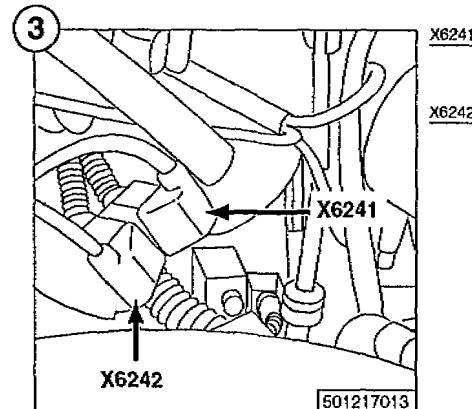
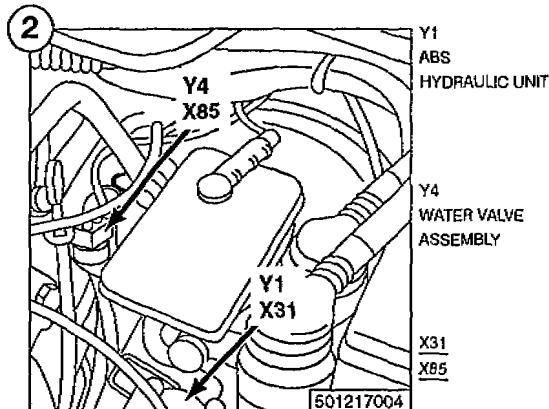
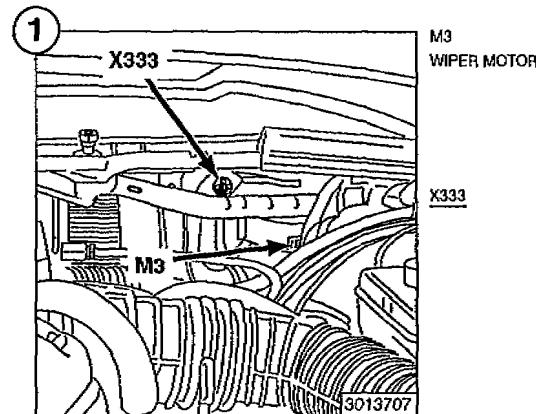
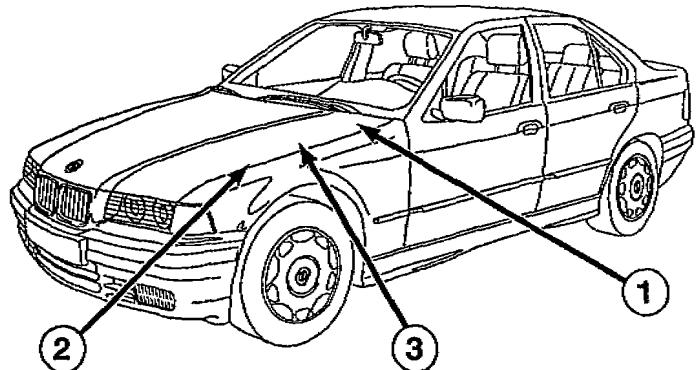
COMPONENT LOCATION VIEWS

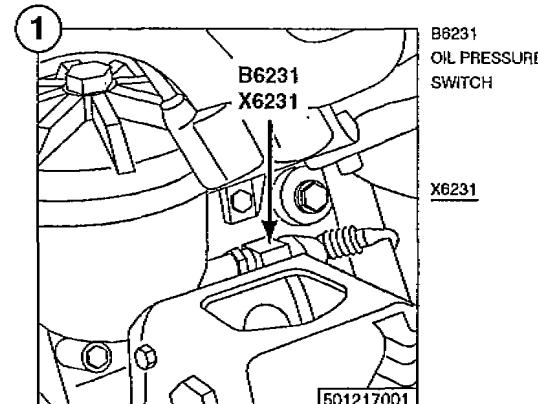
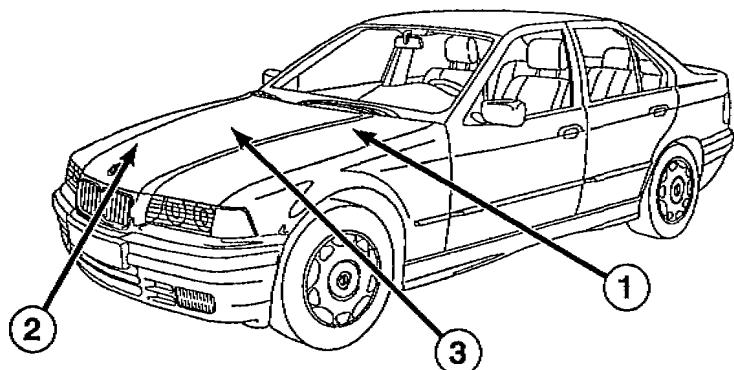
12/94

7100.0-15

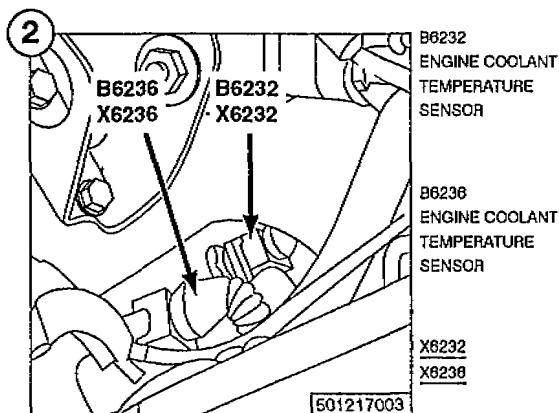
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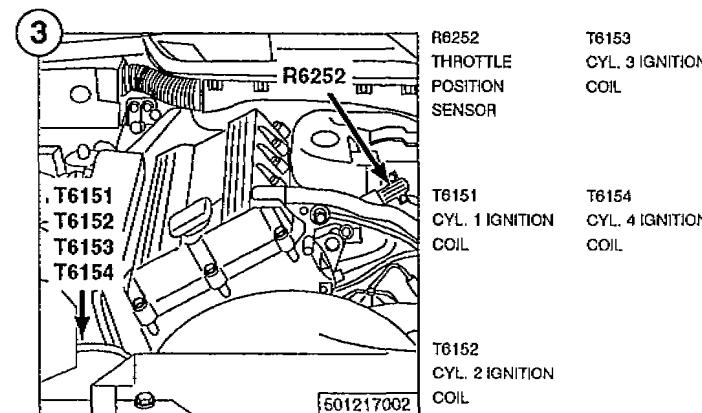


COMPONENT LOCATION VIEWS

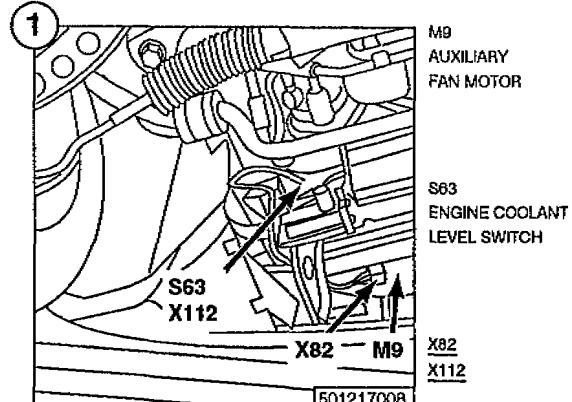
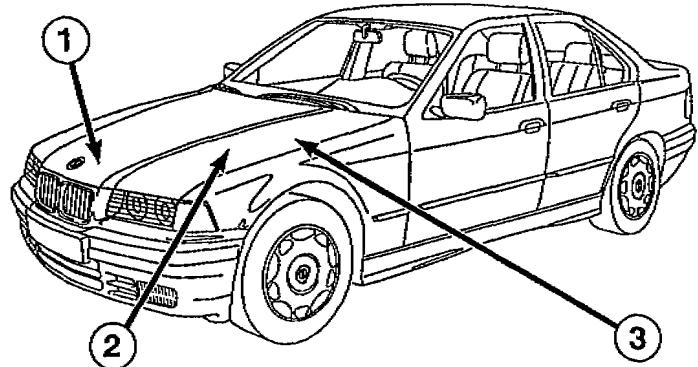
318l



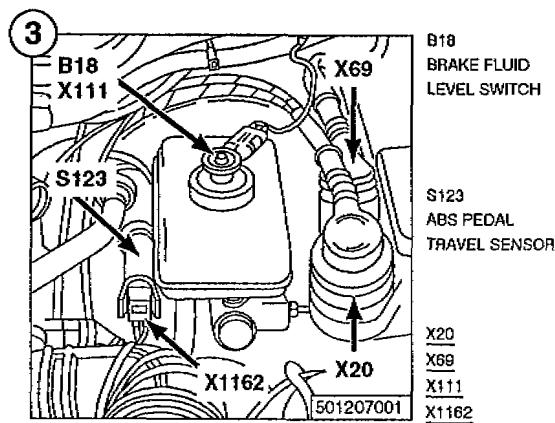
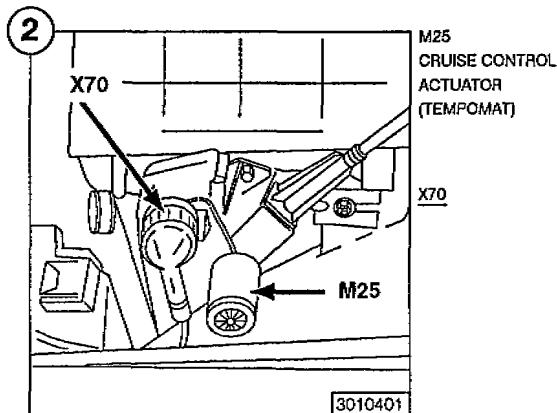
318l



318l

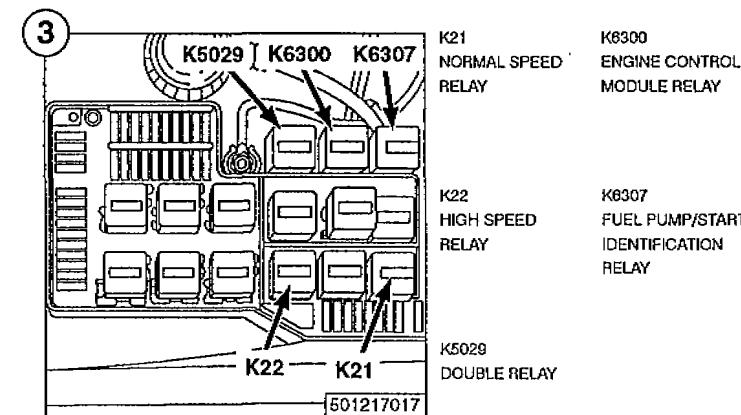
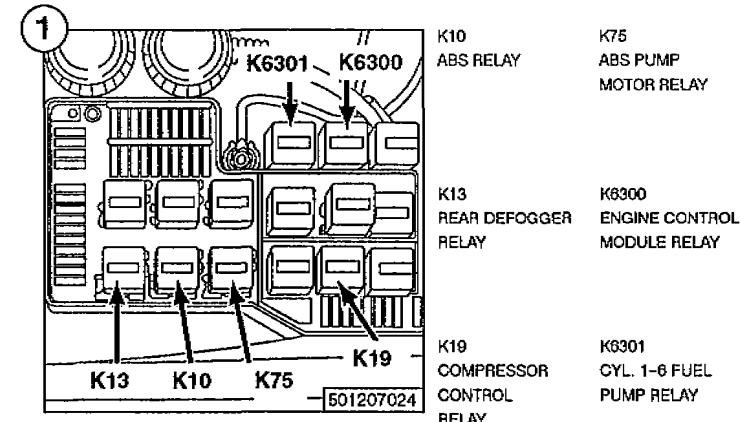
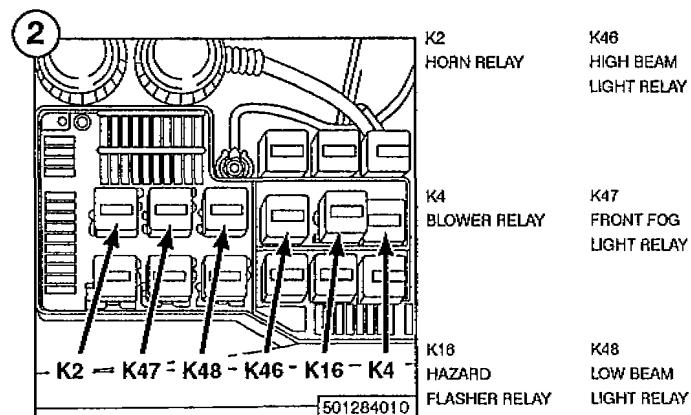
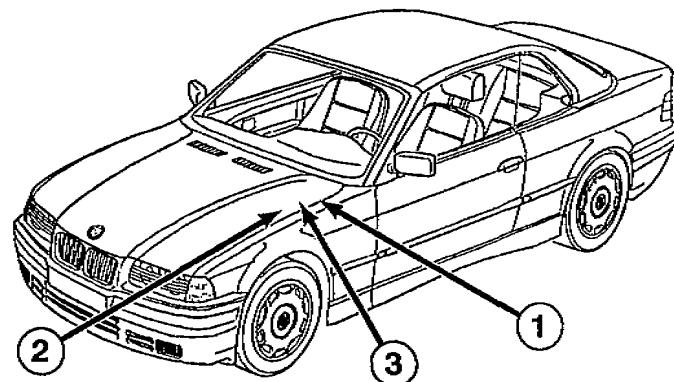


318i

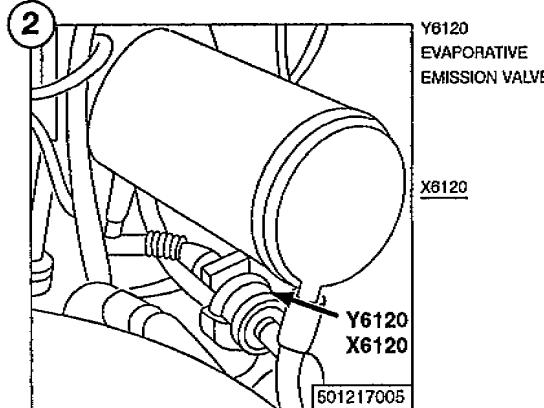
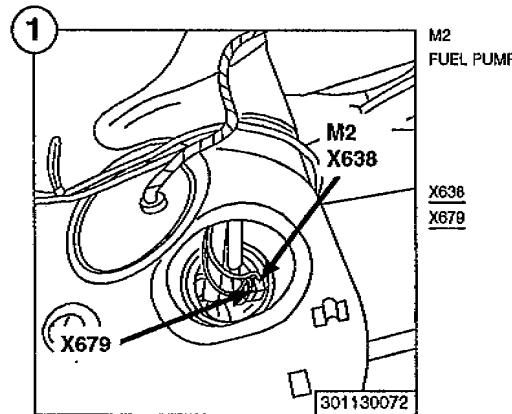
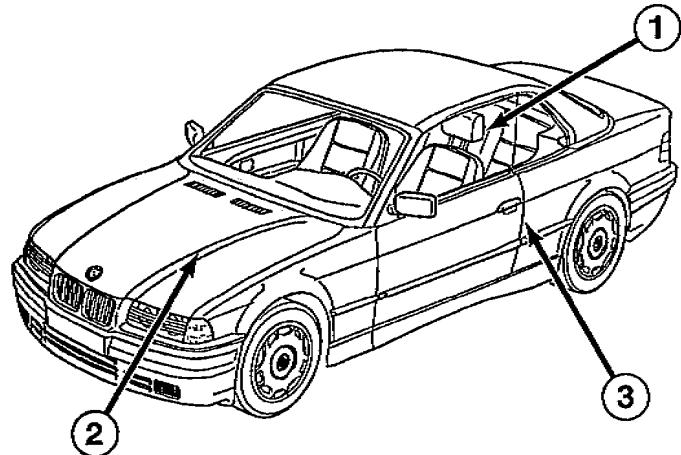




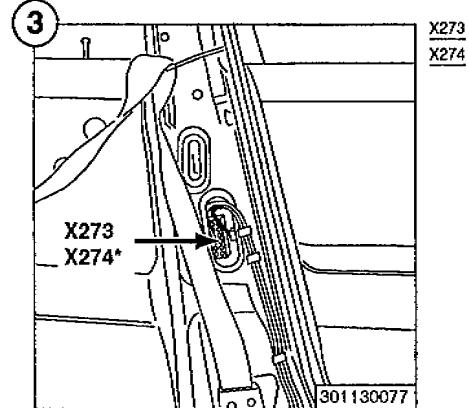
COMPONENT LOCATION VIEWS



M3



318I



* RH similar

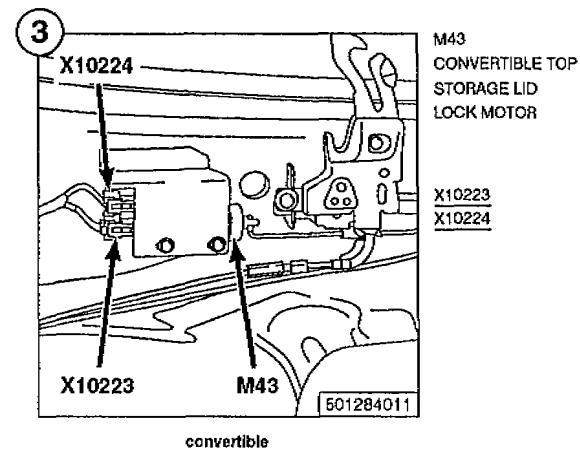
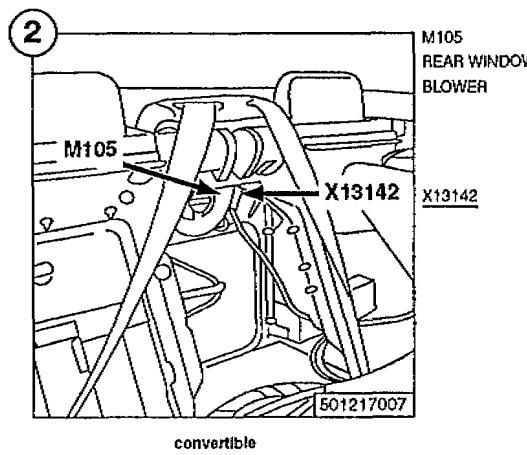
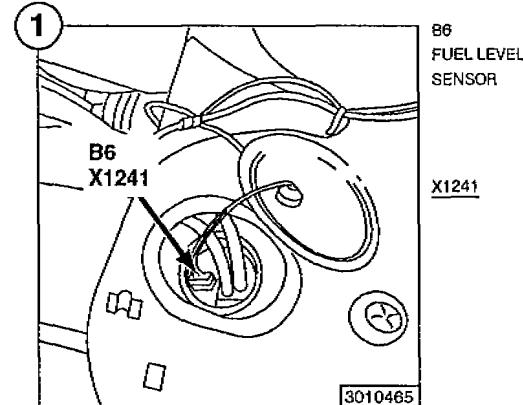
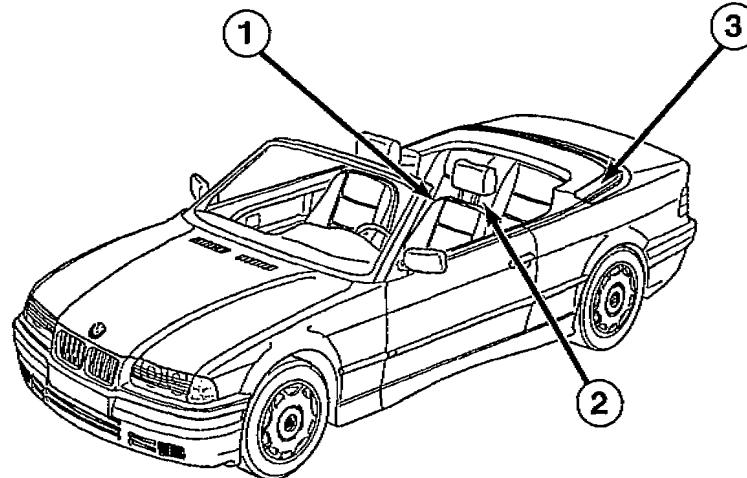


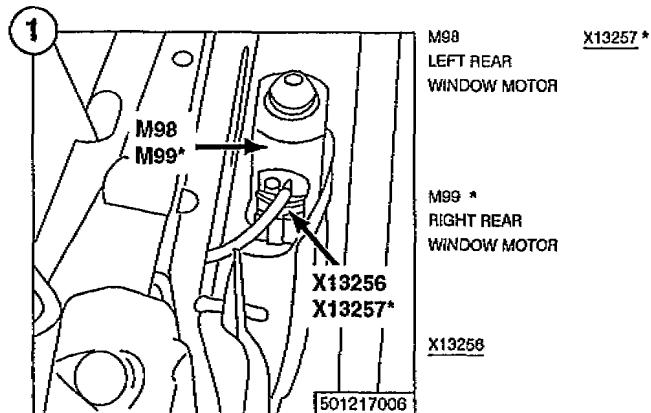
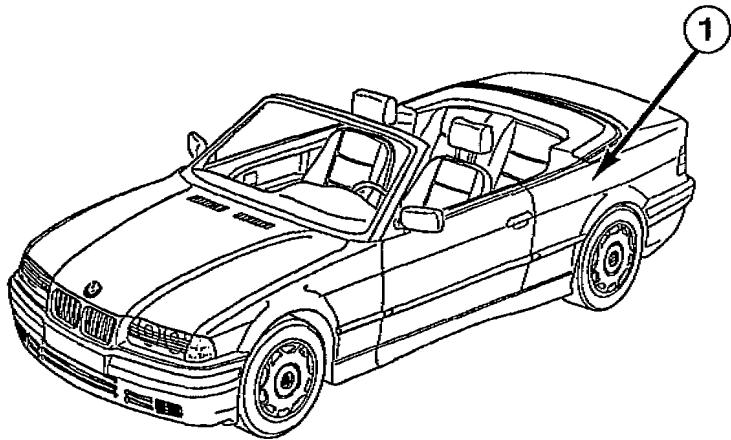
COMPONENT LOCATION VIEWS

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1994





* RH similar

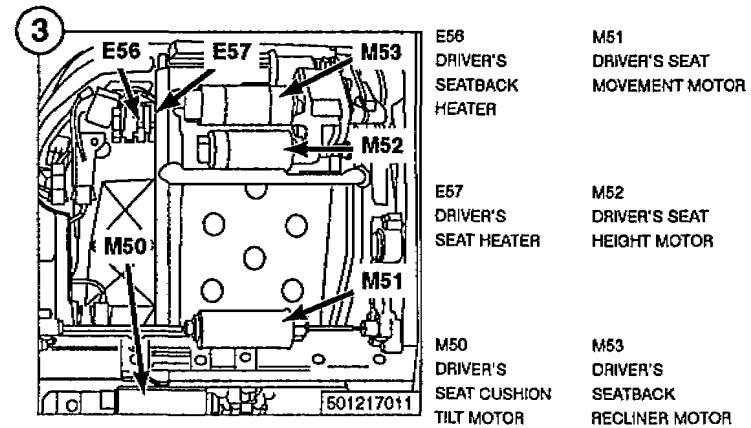
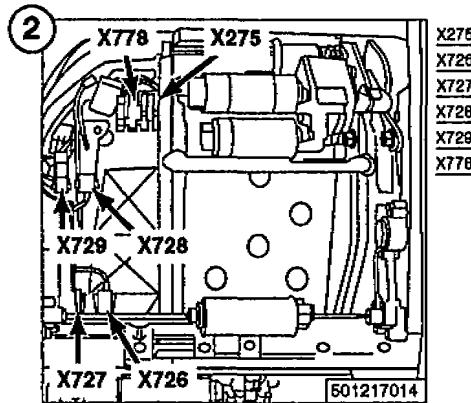
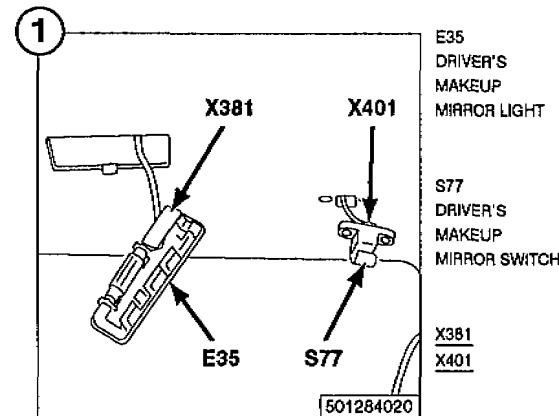
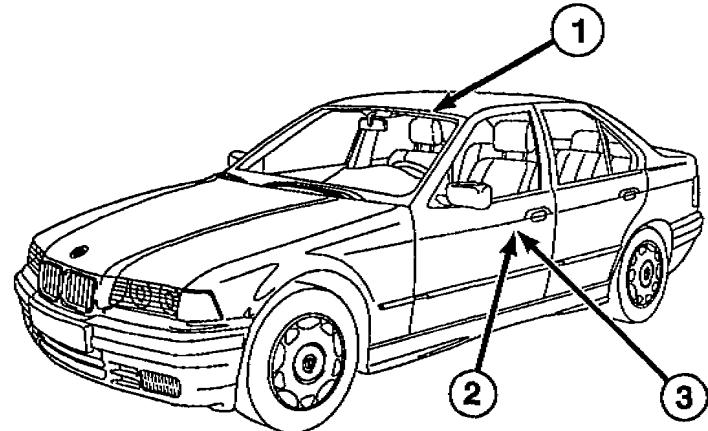


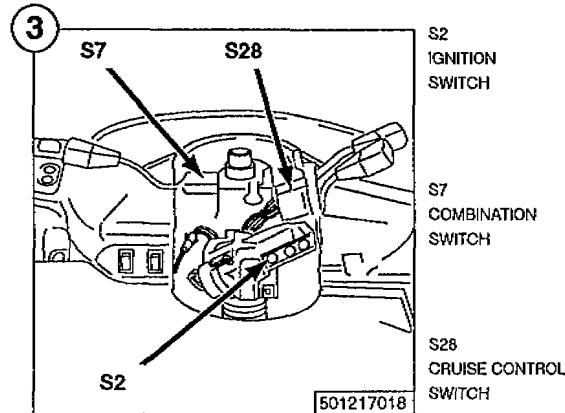
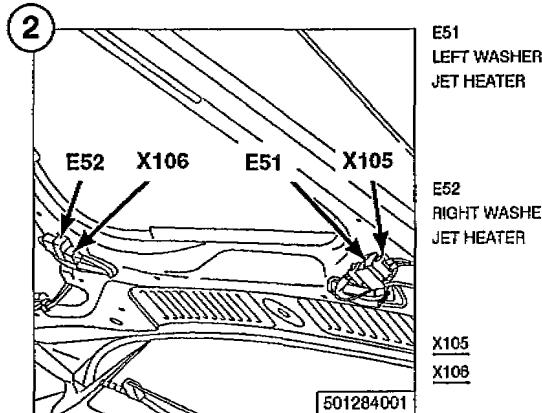
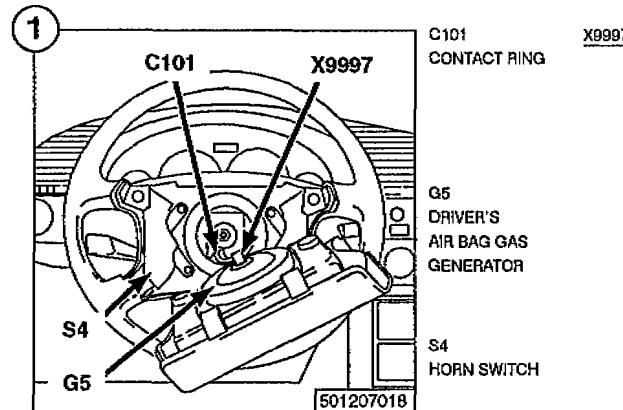
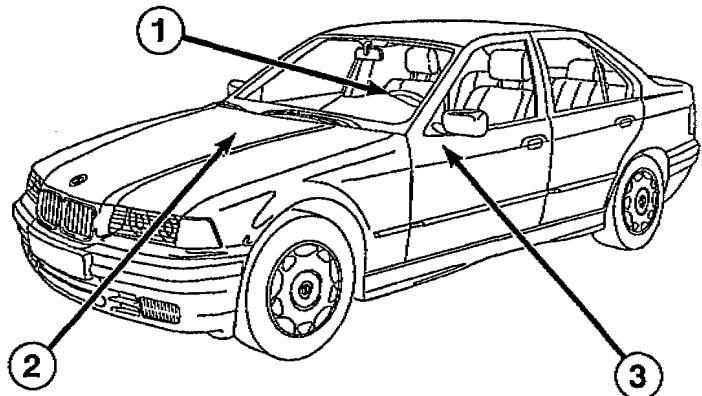
COMPONENT LOCATION VIEWS

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7100.0-23

1994

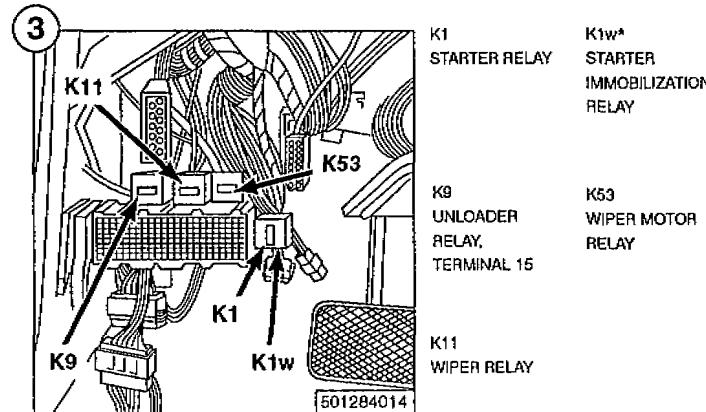
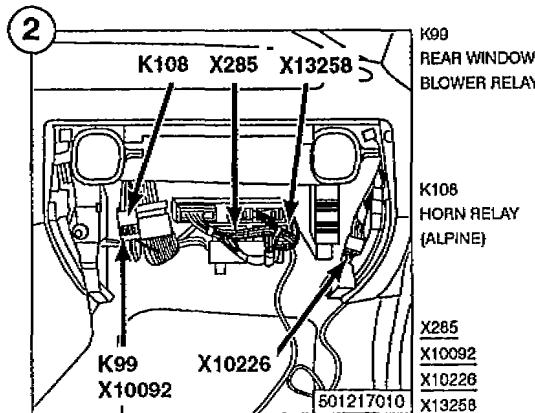
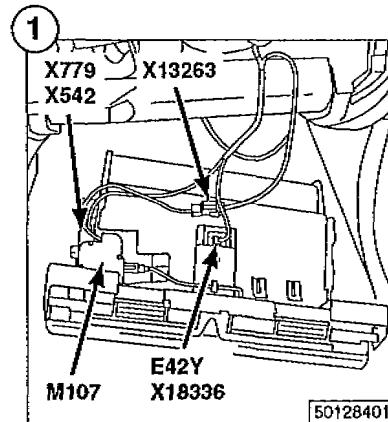
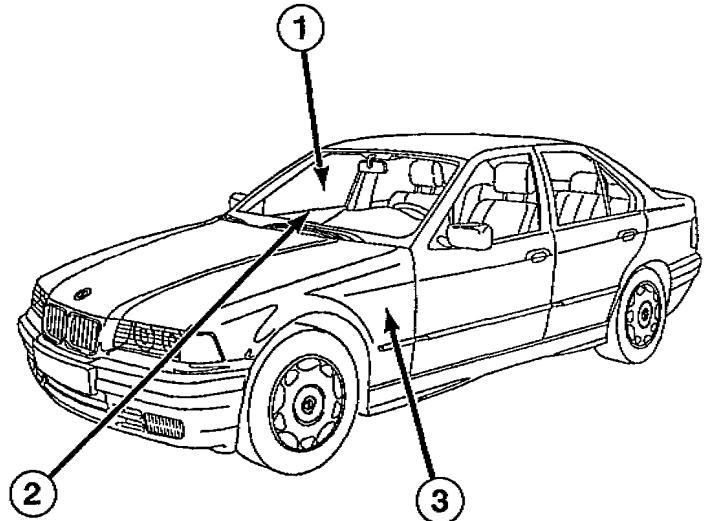






COMPONENT LOCATION VIEWS

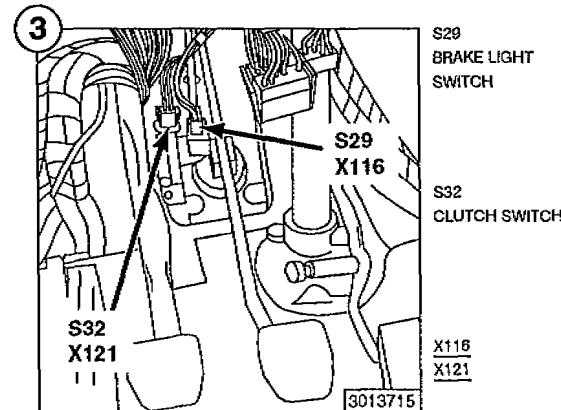
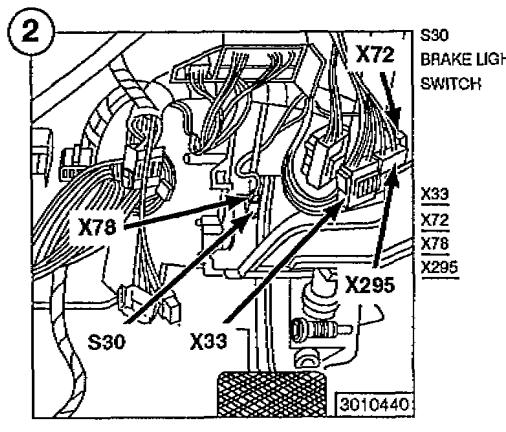
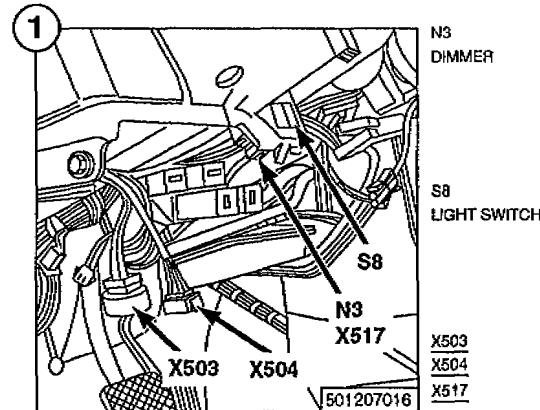
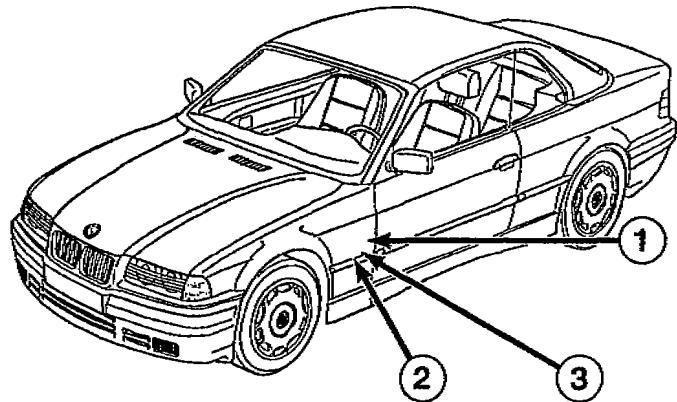
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* LATE PRODUCTION

7100.0-25

1994



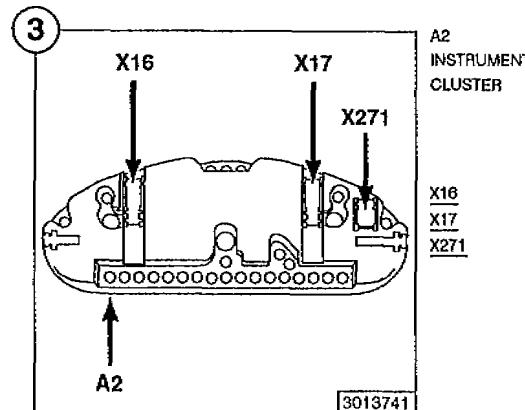
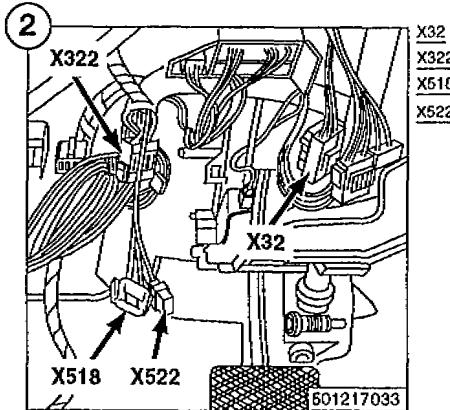
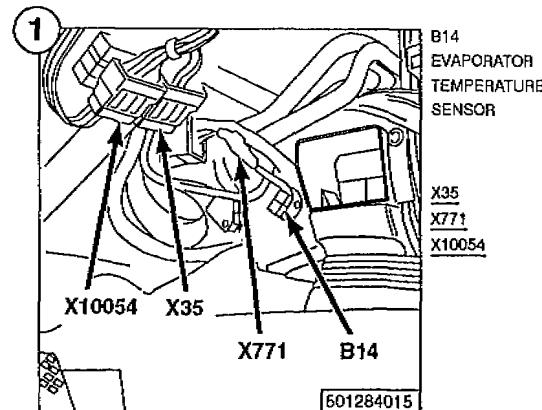
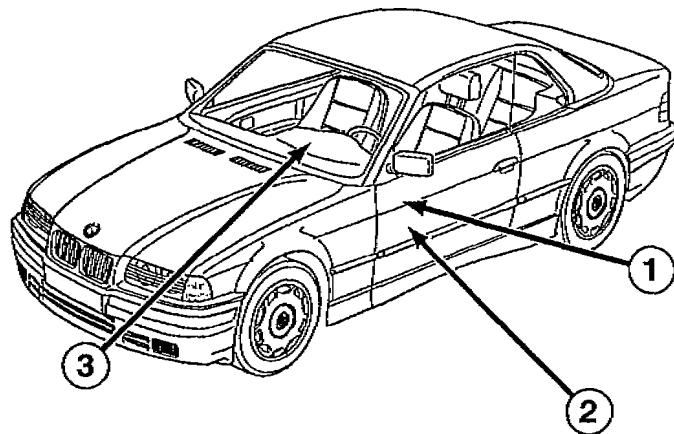


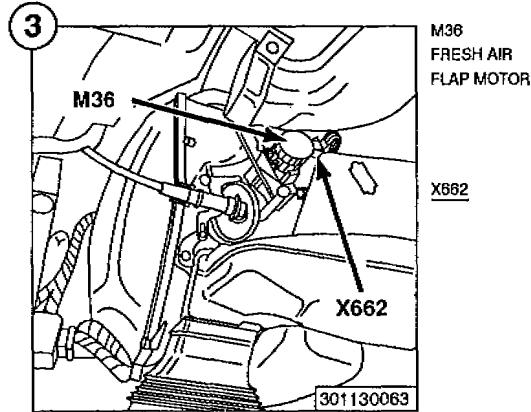
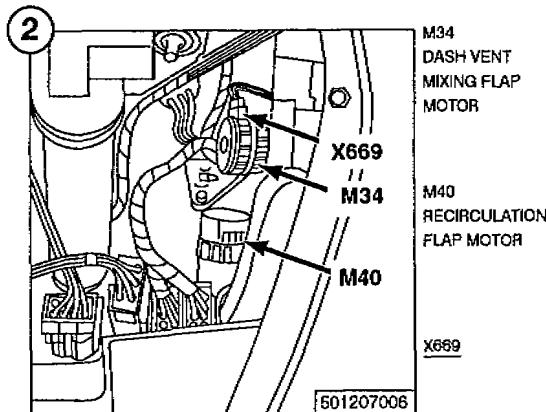
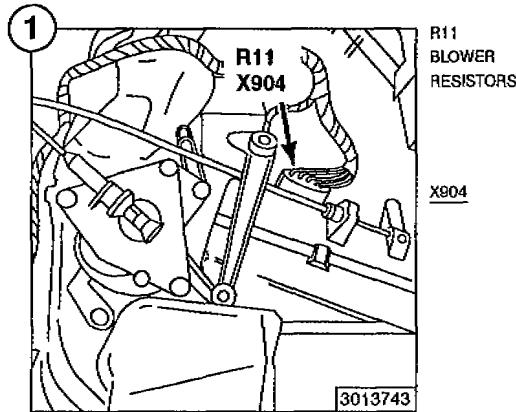
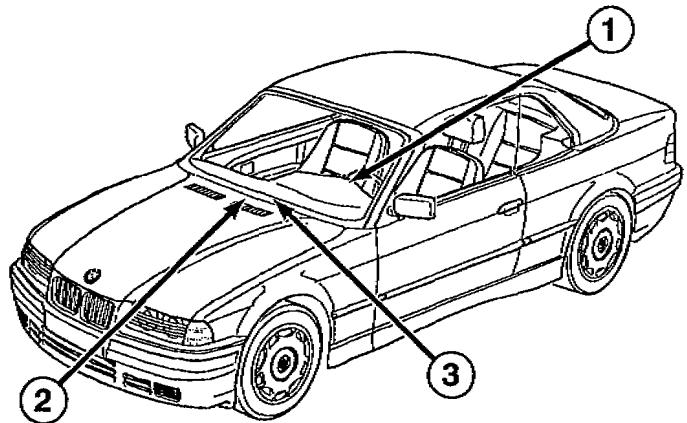
COMPONENT LOCATION VIEWS

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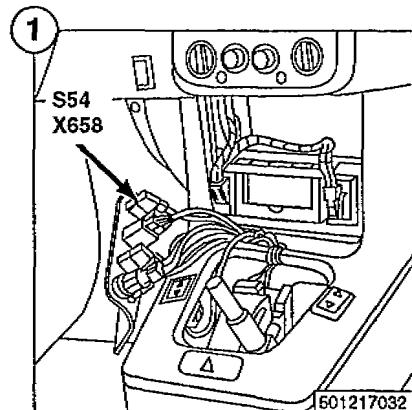
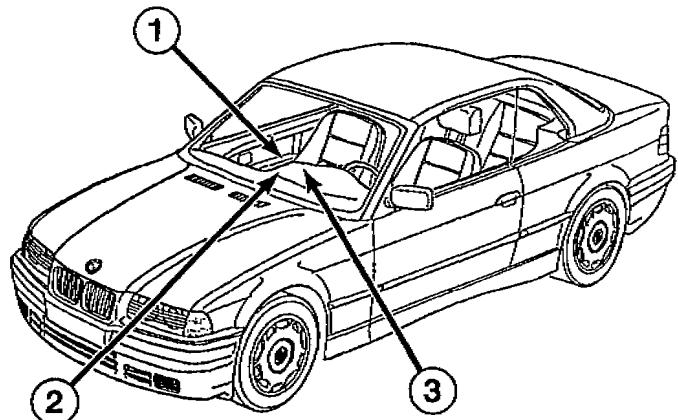
7100.0-27

1994



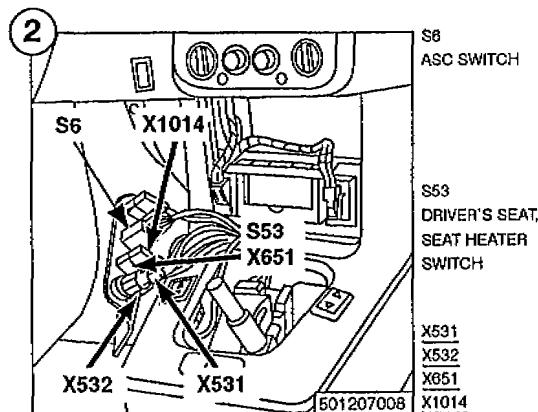


COMPONENT LOCATION VIEWS



S54
PASSENGER'S
SEAT,
SEAT HEATER
SWITCH

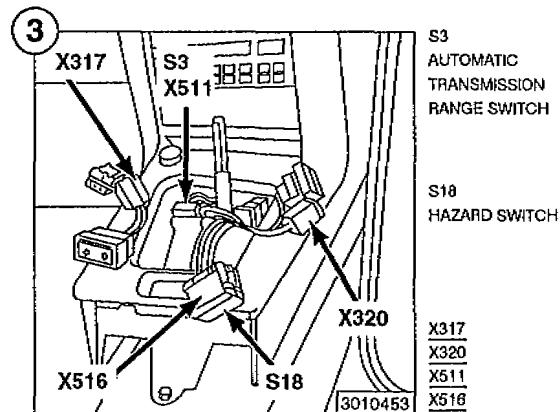
X658



S6
ASC SWITCH

S53
DRIVER'S SEAT,
SEAT HEATER
SWITCH

X531
X532
X651
X1014



S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH

S18
HAZARD SWITCH

X317
X320
X511
X516
3010453

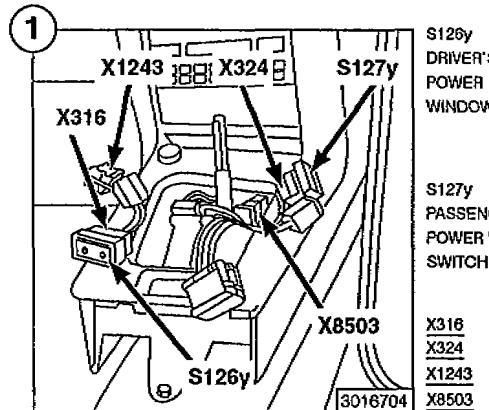
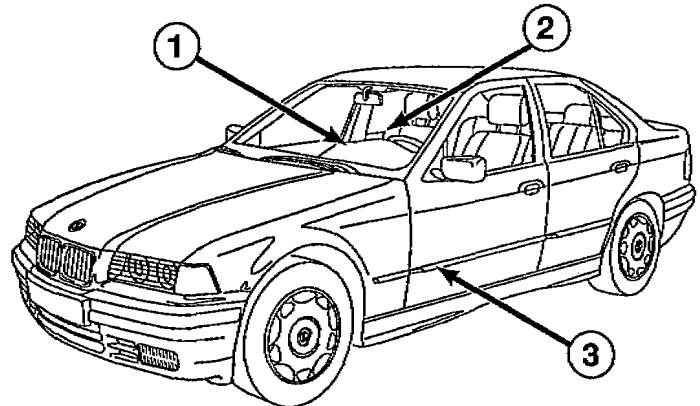


COMPONENT LOCATION VIEWS

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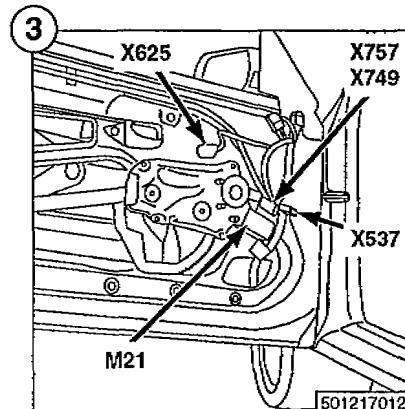
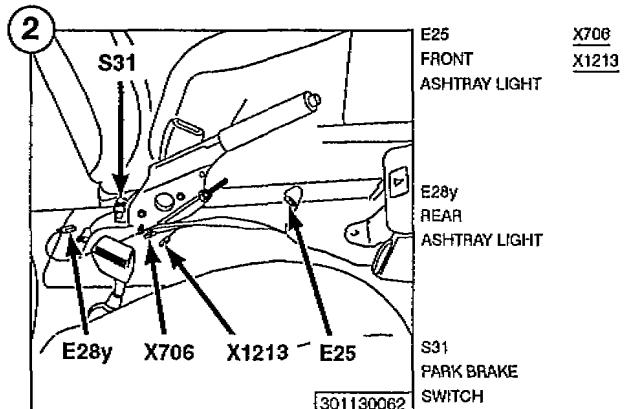
1994



S126y
DRIVER'S
POWER
WINDOW SWITCH

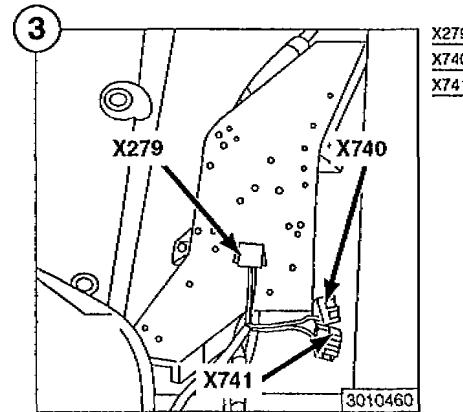
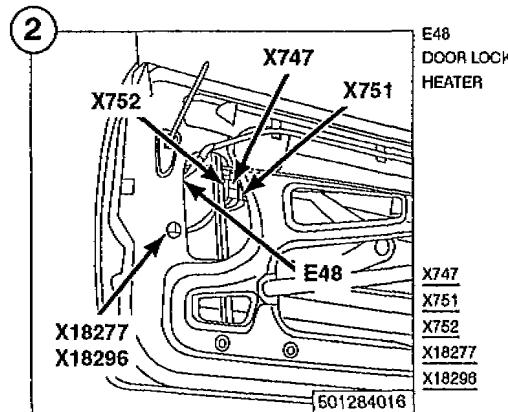
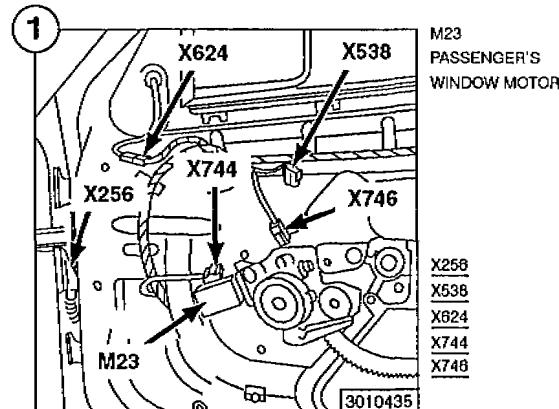
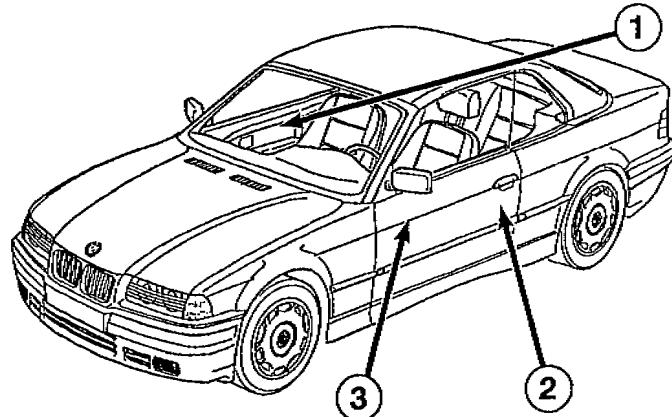
S127y
PASSENGER'S
POWER WINDOW
SWITCH

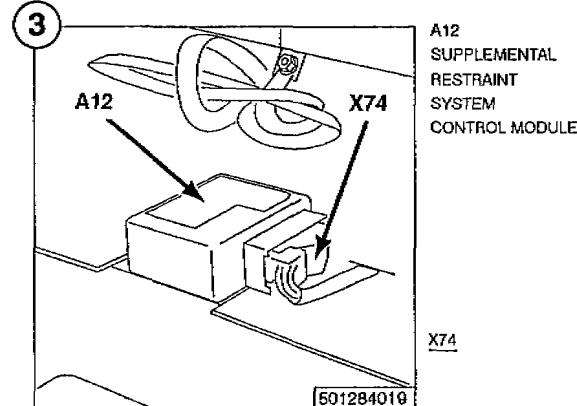
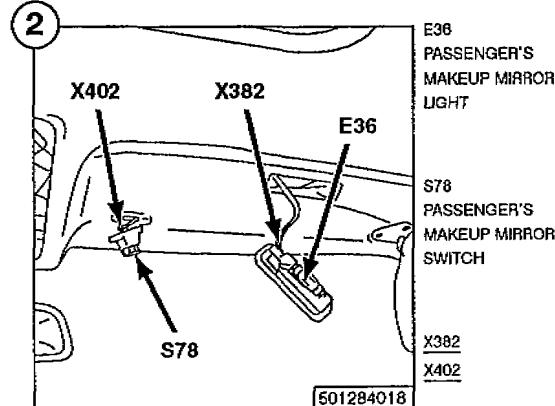
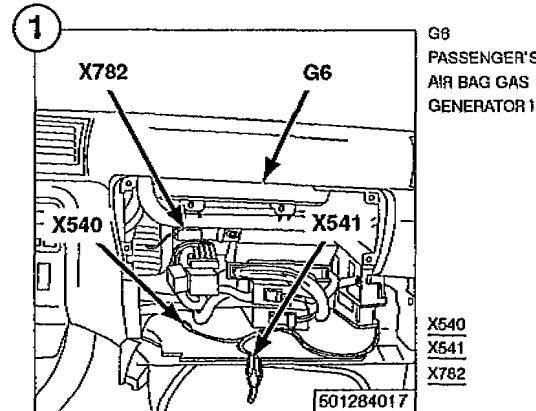
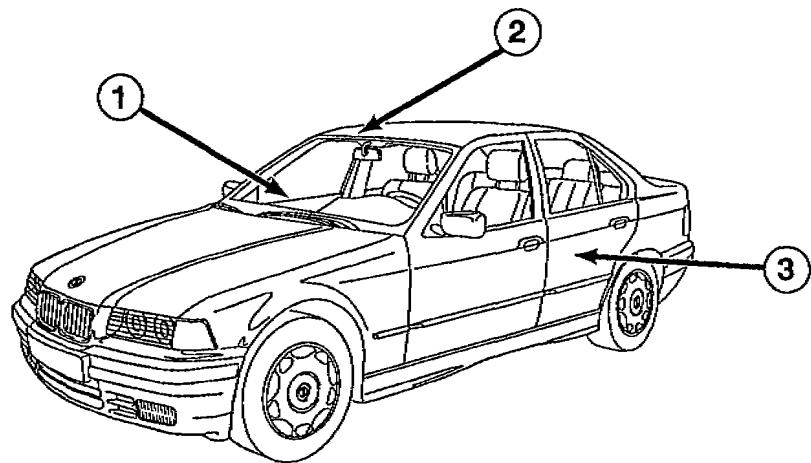
X1243
X316
X324
X1243
X8503
3016704



M21
DRIVER'S
WINDOW MOTOR

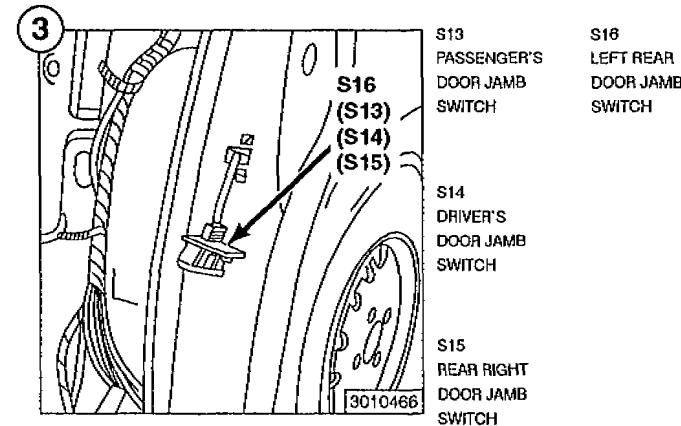
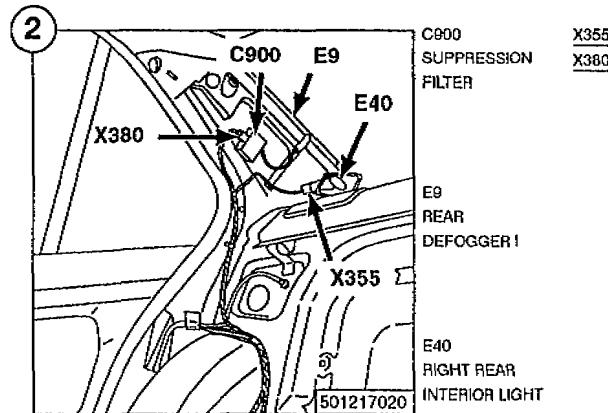
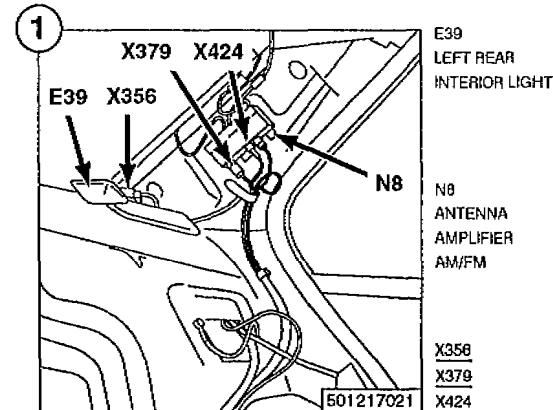
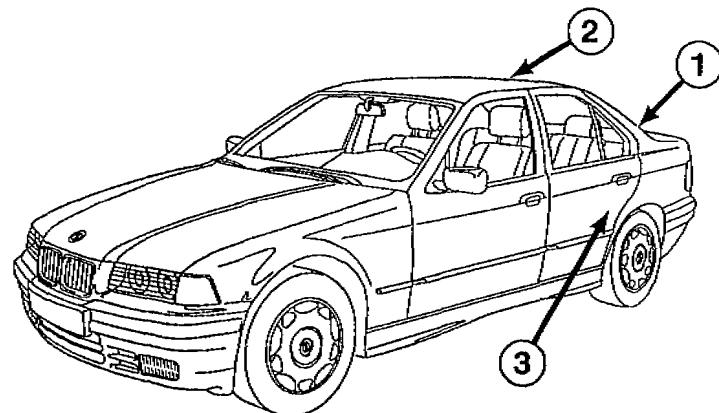
X537
X625
X749
X757
501217012







COMPONENT LOCATION VIEWS

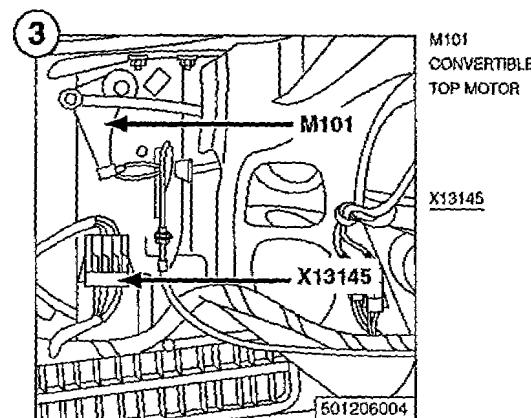
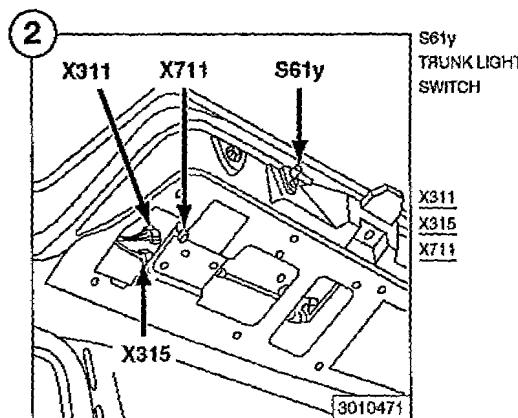
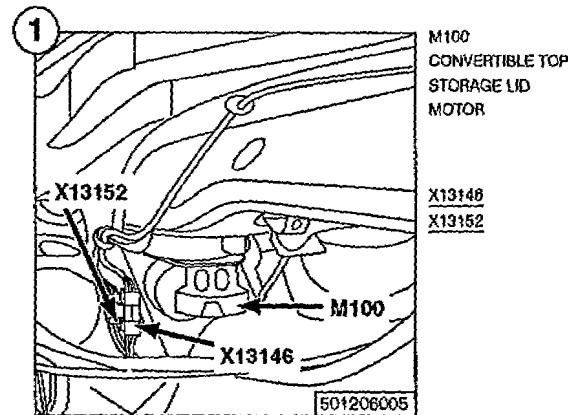
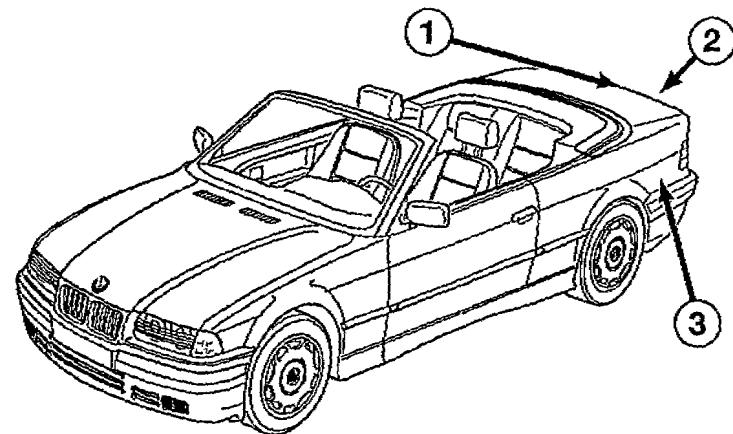


COMPONENT LOCATION VIEWS

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BMW
3

8000.0



SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

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X313-X314	REAR, CONVERTIBLE	8000.0-04	X6410	M42 ENGINE	8000.0-05
X428-X481	REAR	8000.0-03	X6410-X6492	S50 ENGINE	8000.0-07
X428	REAR, CONVERTIBLE	8000.0-04	X6410	M50 ENGINE	8000.0-06
X441-X456	REAR, CONVERTIBLE	8000.0-04	X6411	M50 ENGINE	8000.0-06
X460-X462	REAR, CONVERTIBLE	8000.0-04	X6458-X6492	M42 ENGINE	8000.0-05
X465-X481	REAR, CONVERTIBLE	8000.0-04	X6458-X6461	M50 ENGINE	8000.0-06
X530-X595	FRONT	8000.0-02	X6475	M50 ENGINE	8000.0-06
X805	REAR	8000.0-03	X6491	M50 ENGINE	8000.0-06
X805	REAR, CONVERTIBLE	8000.0-04	X6492	M50 ENGINE	8000.0-06
X824-X830	RADIO	NOT SHOWN	X6810-X6866	M42 ENGINE	8000.0-05
X849-X851	DRIVER'S DOOR	NOT SHOWN	X6810-X6866	S50 ENGINE	8000.0-07
X876-X878	RADIO	NOT SHOWN	X6810	M50 ENGINE	8000.0-06
X906	IHKR	NOT SHOWN	X6820-6822	M50 ENGINE	8000.0-06
X942	PASSENGER'S DOOR	NOT SHOWN	X6830-X6831	M50 ENGINE	8000.0-06
X1015-X1164	FRONT	8000.0-02	X6832	M42 ENGINE	8000.0-05
X1167	REAR	8000.0-03	X6836	M50 ENGINE	8000.0-06
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X1212-X1238	REAR, CONVERTIBLE	8000.0-04	X6900-X6906	S50 ENGINE	8000.0-07
X1225-X1233	FRONT	8000.0-02	X8004	M50 ENGINE	8000.0-06
X1226-X1235	REAR	8000.0-03	X8004	S50 ENGINE	8000.0-07
X1258	FRONT	8000.0-02	X8004-X8576	M42 ENGINE	8000.0-05
X1299	REAR	8000.0-03	X8007	M50 ENGINE	8000.0-06
X1382-X1383	RADIO	NOT SHOWN	X8010	M50 ENGINE	8000.0-06
X1387-X1396	REAR	8000.0-03	X8015	M50 ENGINE	8000.0-06
X1387-X1396	REAR, CONVERTIBLE	8000.0-04	X8022	M50 ENGINE	8000.0-06



SPICE LOCATION VIEWS

SPICE LOCATION INDEX

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X8056	M50 ENGINE	8000.0-06
X8065	M50 ENGINE	8000.0-06
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X8084	M50 ENGINE	8000.0-06
X10007-X10100	FRONT	8000.0-02
X10118	REAR, CONVERTIBLE	8000.0-04
X10251-10252	FRONT	8000.0-02
X10120-X10192	FRONT	8000.0-02
X10189-X10229	REAR, CONVERTIBLE	8000.0-04
X13002-X13011	REAR	8000.0-03
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X13021-X13115	FRONT	8000.0-02
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X18160-X18161	IHKR	NOT SHOWN
X18165	FRONT	8000.0-02
X18251	DRIVER'S DOOR	NOT SHOWN
X18252	PASSENGER'S DOOR	NOT SHOWN
X18253	DRIVER'S DOOR	NOT SHOWN
X18254-X18284	PASSENGER'S DOOR	NOT SHOWN
X18783-X18784	FRONT	8000.0-02
X18785-X18799	REAR, CONVERTIBLE	8000.0-04
X19513-X19514	RADIO	NOT SHOWN
X69008-X69009	S50 ENGINE	8000.0-07



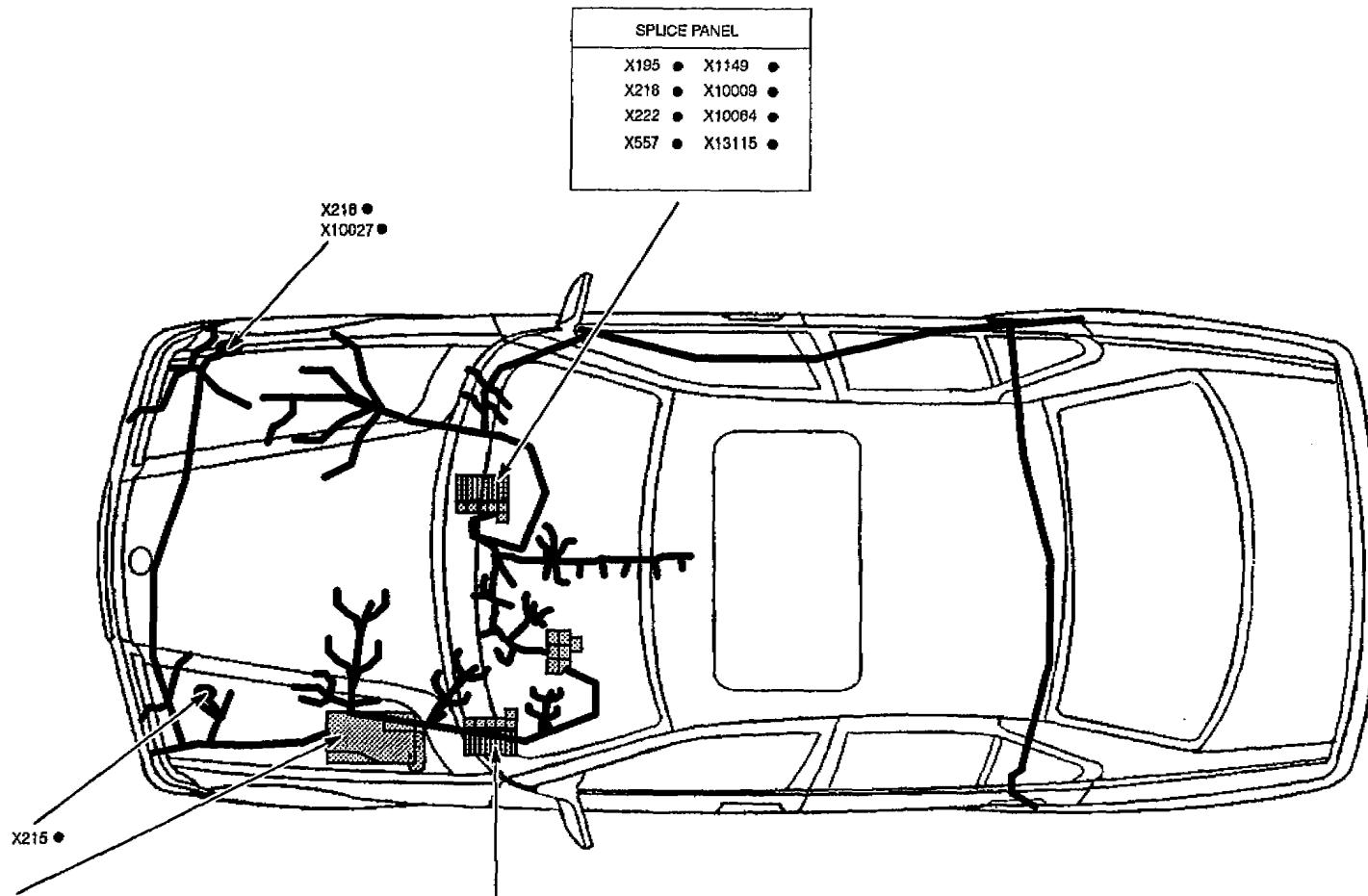
SPLICE LOCATION VIEWS

FRONT HARNESS

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X185 •	X248 • X1028 • X1152 • X1166 • X10055 •
X186 •	X278 • X1036 • X1159 • X1192 • X10100 •
X187 •	X530 • X1055 • X1163 • X1233 • X18783 •
X203 •	X595 • X1068 • X1164 • X10007 • X18784 •
X223 •	X1015 • X1073 • X1168 • X10020 •
X238 •	X1022 • X1076 • X1172 • X10021 •

SPLICE PANEL	
X181 •	X213 • X1067 • X1179 • X10028 • X10123 • X13021 •
X182 •	X228 • X1069 • X1182 • X10029 • X10191 • X18165 •
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X198 •	X1065 • X1159 • X10011 • X10104 • X10252 •
X197 •	X1066 • X1169 • X10024 • X10120 • X11264 •



SPICE LOCATION VIEWS

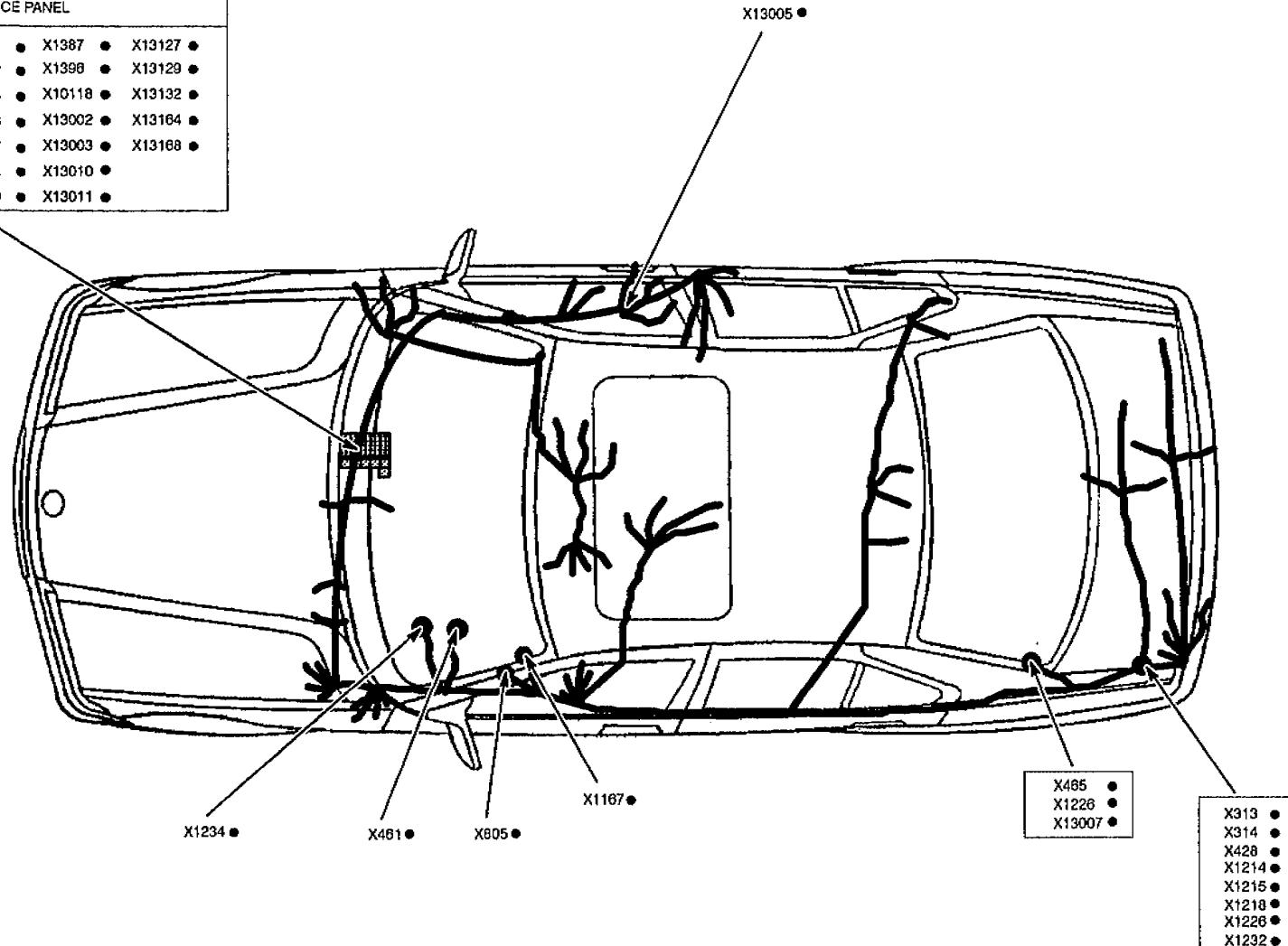
REAR HARNESS

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SPLICE PANEL	
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X442 •	X454 • X1212 • X1398 • X13129 •
X443 •	X455 • X1235 • X10118 • X13132 •
X444 •	X458 • X1238 • X13002 • X13164 •
X445 •	X460 • X1237 • X13003 • X13168 •
X449 •	X462 • X1238 • X13010 •
X450 •	X475 • X1299 • X13011 •





SPICE LOCATION VIEWS

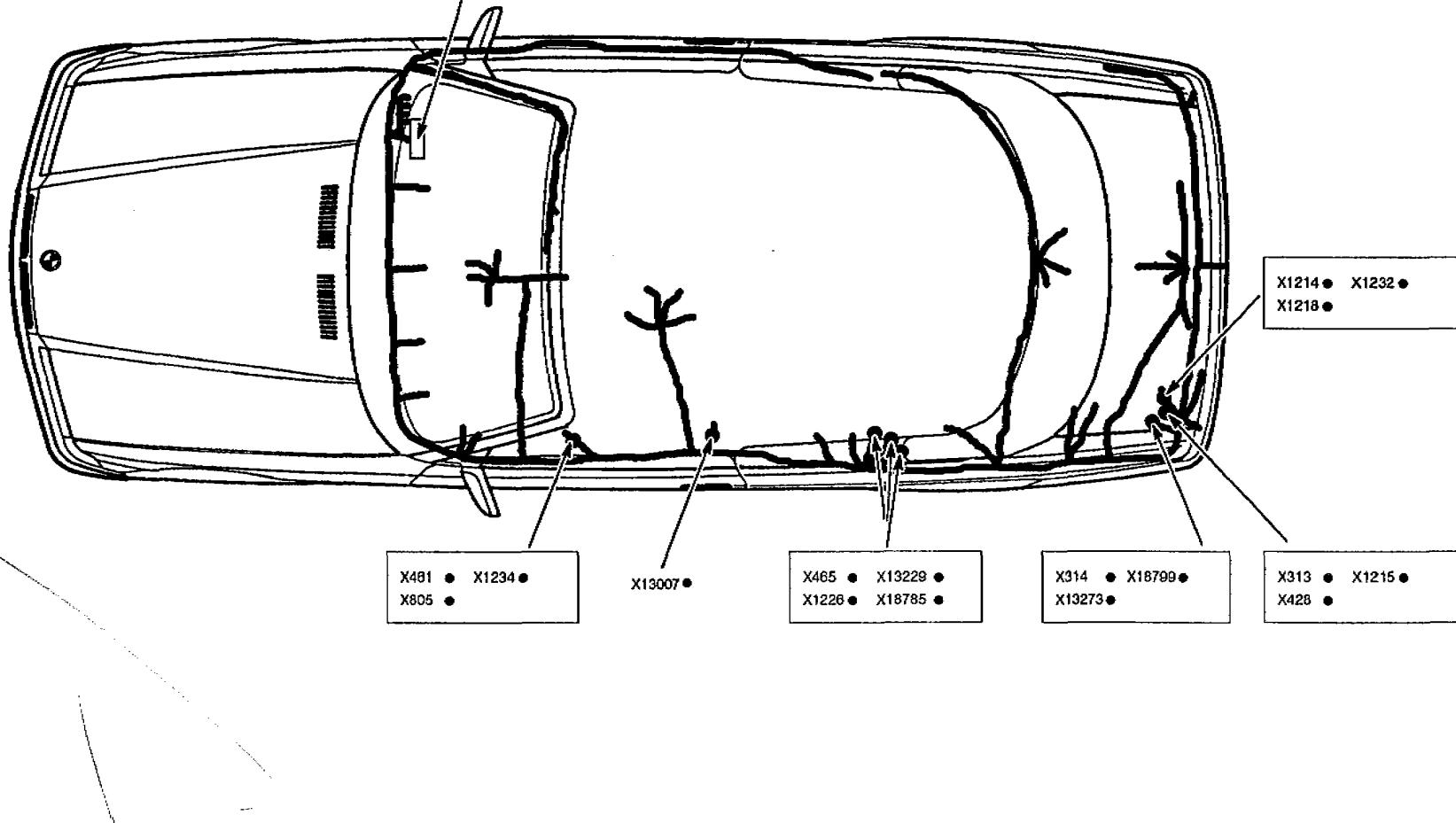
REAR WIRING HARNESS - CONVERTIBLE

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SPLICE PANEL	
X441 •	X453 • X481 • X1367 • X13003 • X13281 •
X442 •	X454 • X1212 • X1396 • X13010 • X18796 •
X443 •	X455 • X1235 • X10118 • X13011 •
X444 •	X458 • X1238 • X10189 • X13127 •
X445 •	X460 • X1237 • X10228 • X13129 •
X449 •	X482 • X1238 • X10229 • X13132 •
X450 •	X475 • X1263 • X13002 • X13168



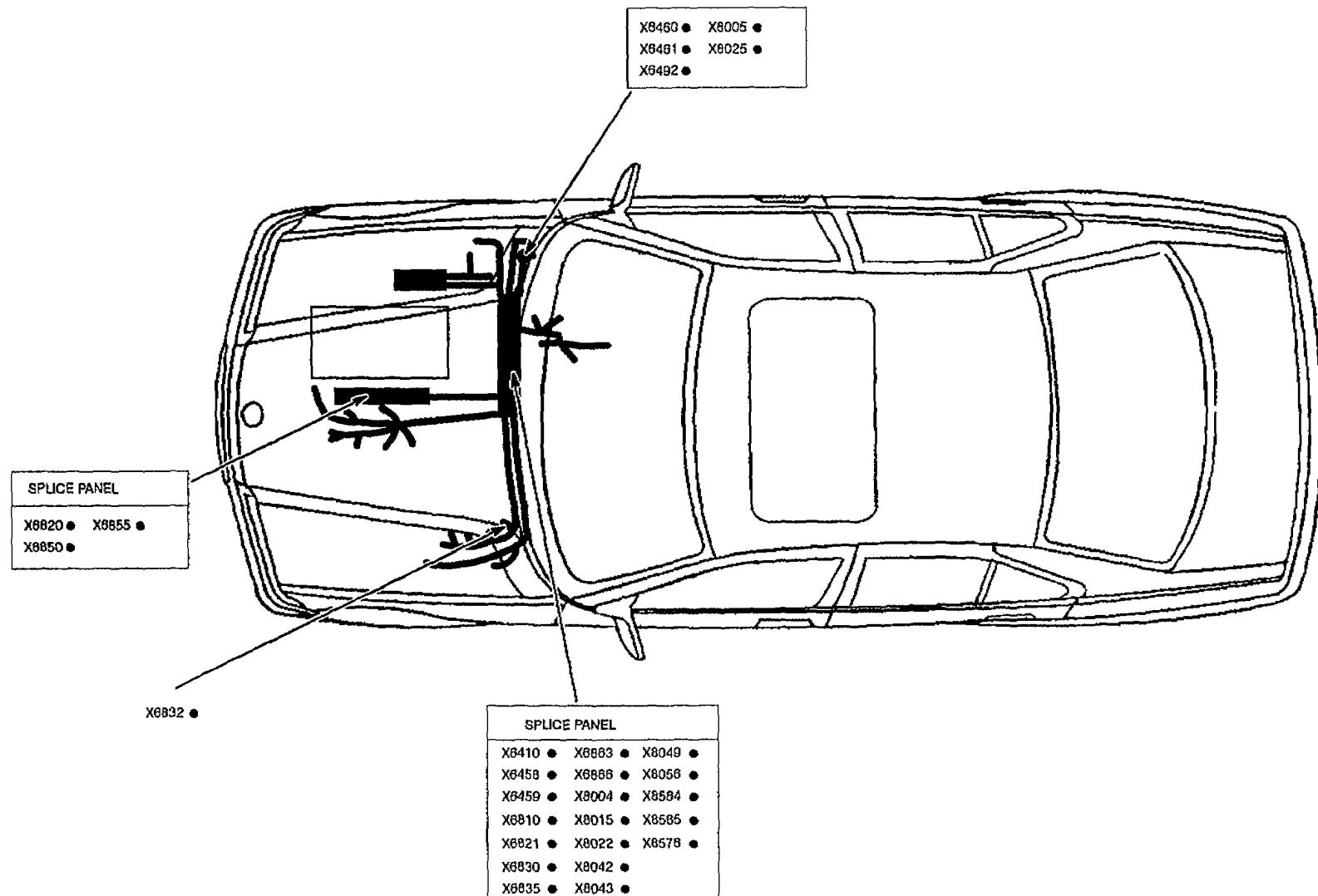


SPlice Location Views

ENGINE HARNESS M42

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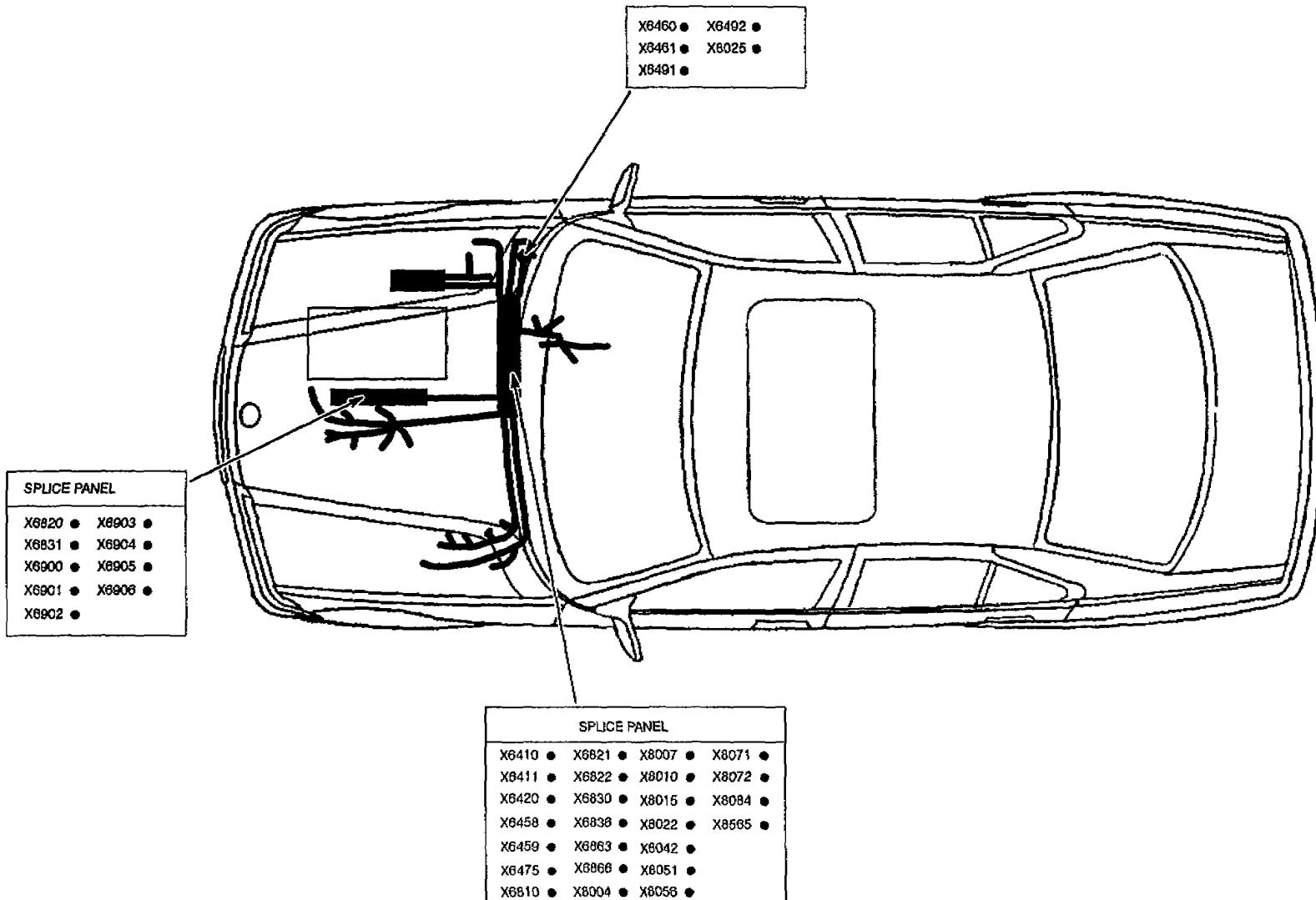
SPlice Location Views

M50 ENGINE HARNESS

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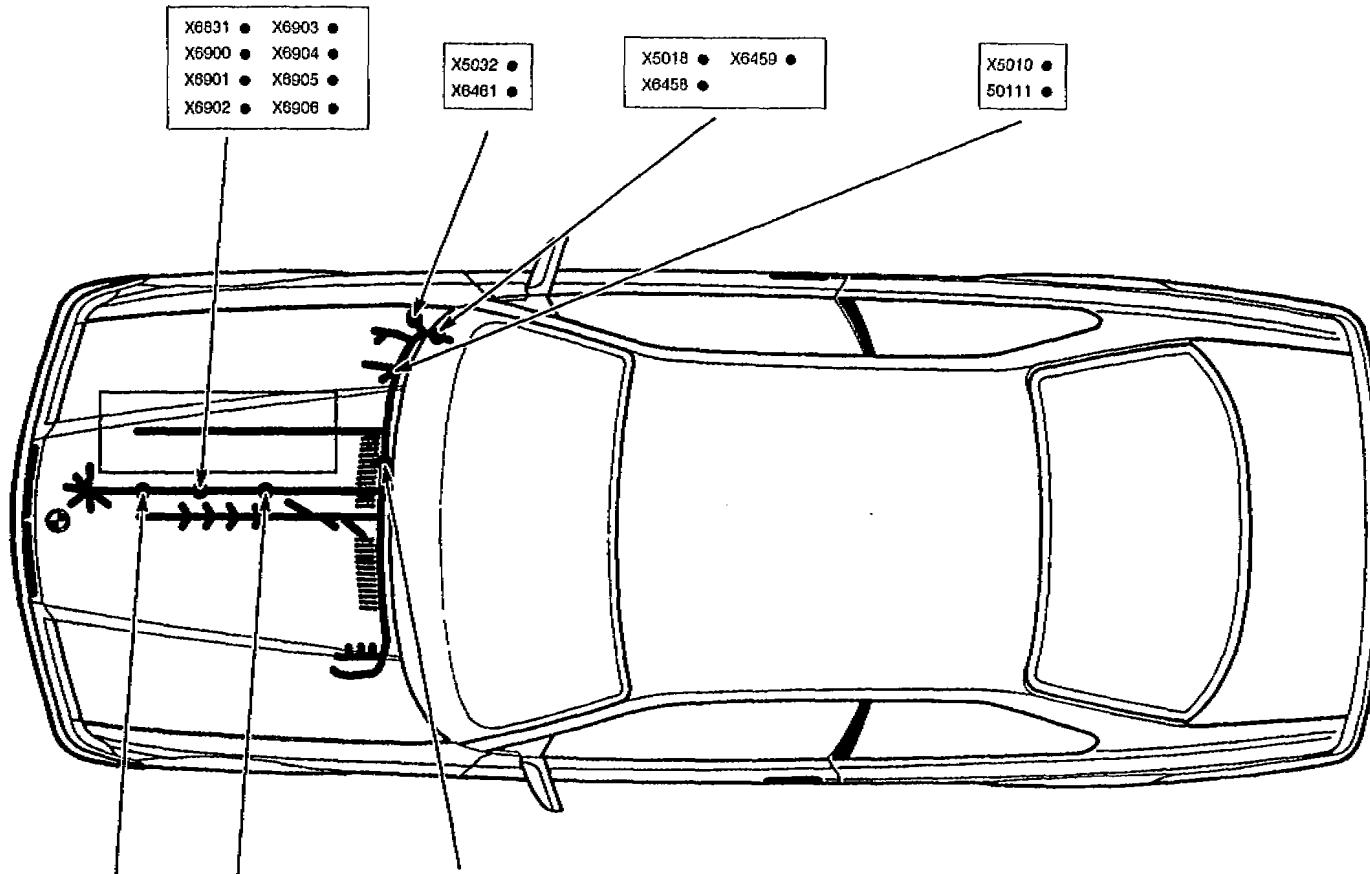




SPlice Location Views

ENGINE HARNESS S50

CDN



X69008 • X69009 •

SPLICE PANEL			
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X6410 •	X6484 •	X6491 •	X6835 •
X6411 •	X6485 •	X6492 •	X6883 •
X6413 •	X6488 •	X6810 •	X6888 •
X6463 •	X6487 •	X6811 •	X8004 •
X6475 •	X6488 •	X6820 •	
X6480 •	X6489 •	X6821 •	



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FIG. 1

B550001.03

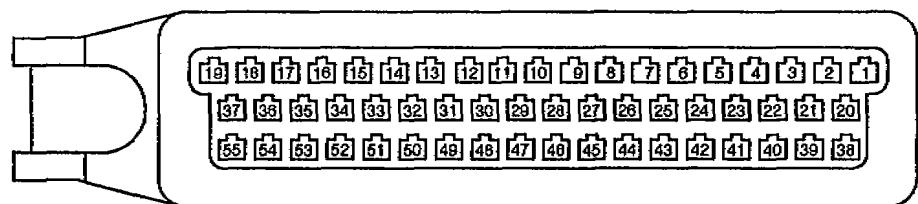


FIG. 3

B150003.00

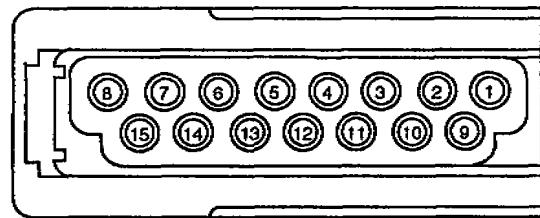


FIG. 2

B260005.00

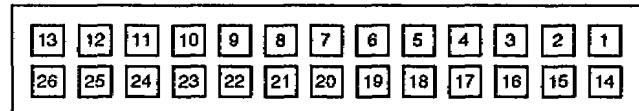
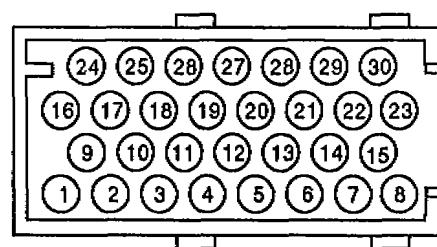


FIG. 4

B300001.00





CONNECTOR VIEWS

FIG. 1

B030024

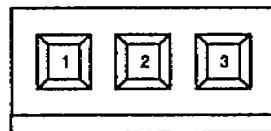


FIG. 2

B120003.00

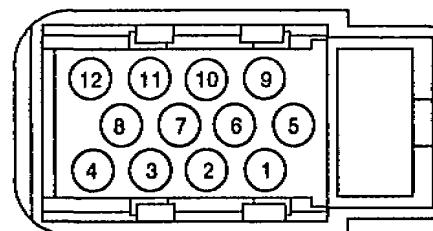


FIG. 3

B120001.00

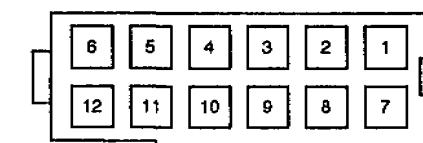


FIG. 4

B080002.00

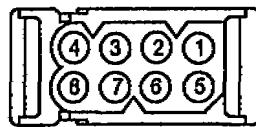


FIG. 5

B180000.00

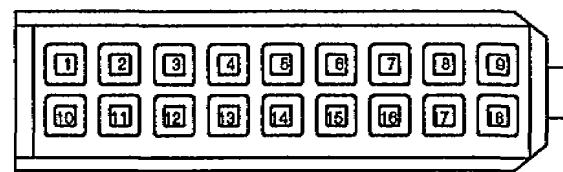


FIG. 6

B120015

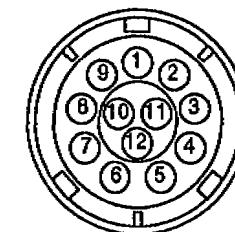
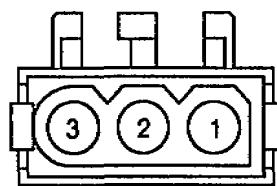
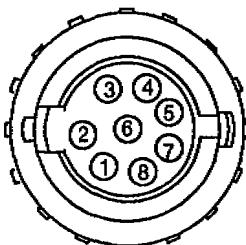


FIG. 1

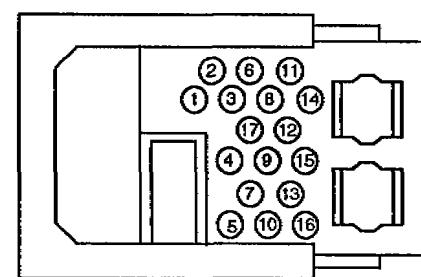
B030001.00

**FIG. 2**

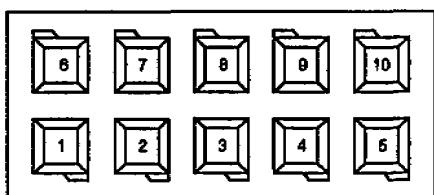
B080003.00

**FIG. 3**

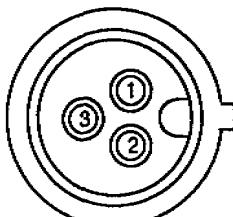
B170001.00

**FIG. 4**

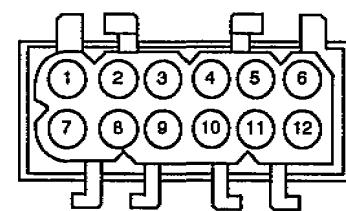
B100008.00

**FIG. 5**

B030005.00

**FIG. 6**

B120004.01





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FIG. 1

B040002.00

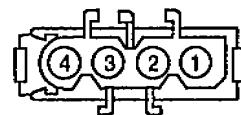


FIG. 2

B050003.00

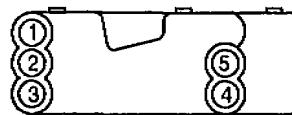


FIG. 3

B040004.00

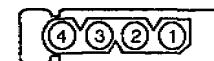


FIG. 4

B040018

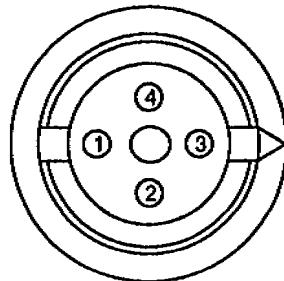


FIG. 5

B080001.00

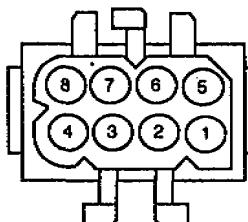
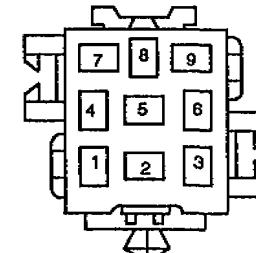


FIG. 6

B080002.00





CONNECTOR VIEWS

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FIG. 1

B210002.00

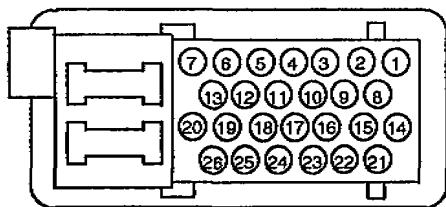


FIG. 2

B060001.02

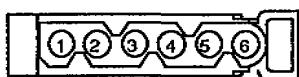


FIG. 3

B070005.00

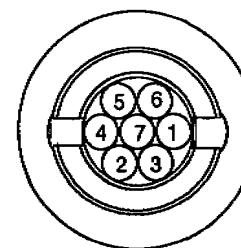


FIG. 4

B200003.00

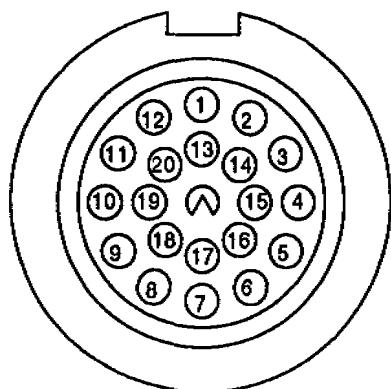


FIG. 5

B060010.01

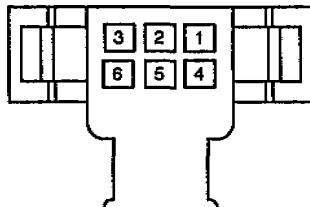
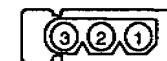


FIG. 6

B030003.02





CONNECTOR VIEWS

FIG. 1

B060008.00

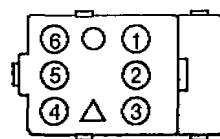


FIG. 2

B250001.01

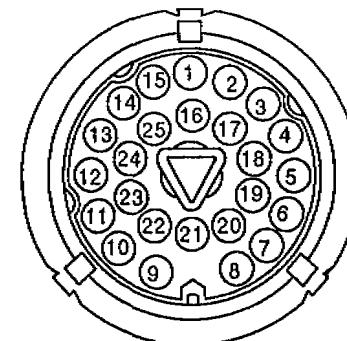


FIG. 3

B060019.02

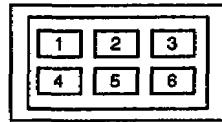


FIG. 4

B060037.00

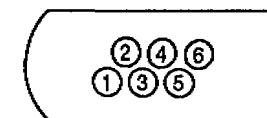
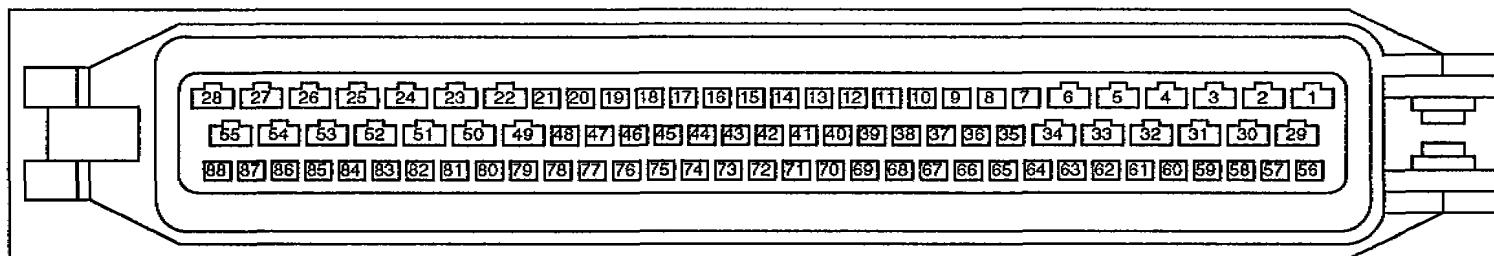
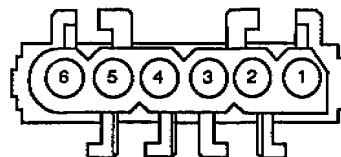


FIG. 1

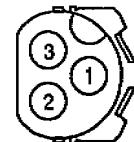
B880001.00

**FIG. 2**

B060038.00

**FIG. 3**

B030006.00





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FIG. 1

B060012.00

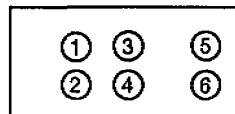


FIG. 4

B030015.08

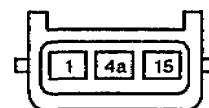


FIG. 2

B040023.00

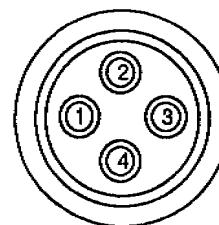


FIG. 5

B030023.00

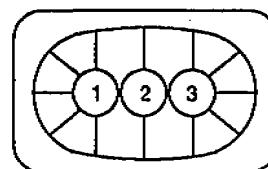


FIG. 3

B030018.00

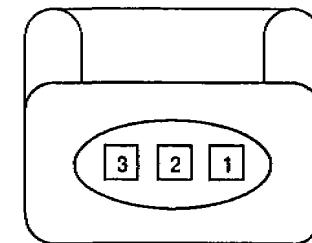
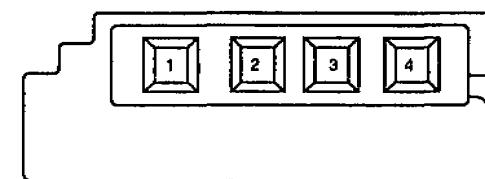


FIG. 6

B040020.00





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FIG. 1

B030025.00

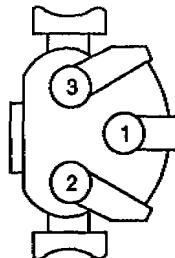


FIG. 2

B060037.01

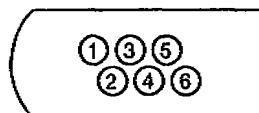


FIG. 3

B030001.00

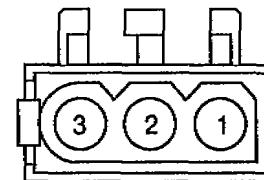


FIG. 4

B060001.00



FIG. 5

B120004.05

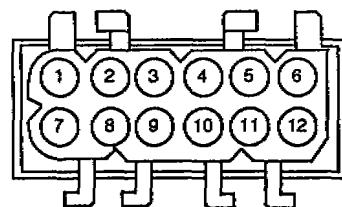
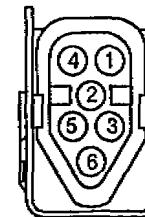


FIG. 6

B060009.00





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FIG. 1

B100004.01

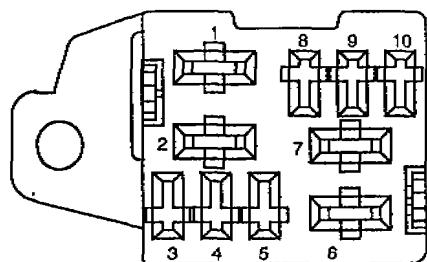


FIG. 3

B060042

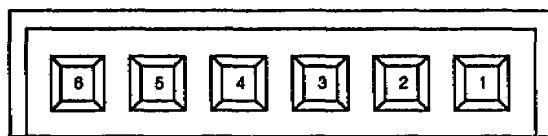


FIG. 2

B180002.00

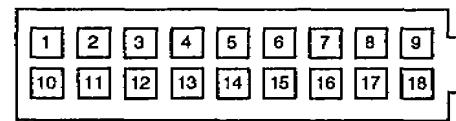


FIG. 4

B100007.00

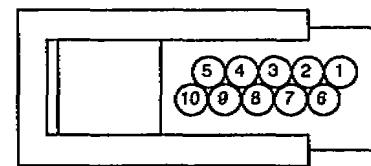
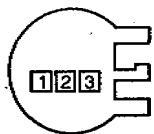


FIG. 1

B030042.01

**FIG. 2**

B300004.00

