

1999

BMW

Z3

(E36/7)

Electrical

Troubleshooting

Manual

Z3 produced 9/98 thru Present



ELECTRICAL TROUBLESHOOTING MANUAL

**SERIES 3 – E36/7 (Z3 Roadster, Z3 Coupe, M Roadster,
and M Coupe)**

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MODEL YEAR 1999

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SOLENOID VALVE ("RUNNING LOSSES"), Y6550	1210.25-04
SPEAKER, LEFT REAR, H46	6510.1-03
SPEAKER, RIGHT REAR, H45	6510.1-03
SPEED SENSOR - ABS, LEFT FRONT, B2	3450.1-04
SPEED SENSOR - ABS, LEFT FRONT, B2	3450.1-07
SPEED SENSOR - ABS, LEFT REAR, B4	3450.1-04
SPEED SENSOR - ABS, LEFT REAR, B4	3450.1-07
SPEED SENSOR - ABS, RIGHT FRONT, B1	3450.1-04
SPEED SENSOR - ABS, RIGHT FRONT, B1	3450.1-07
SPEED SENSOR - ABS, RIGHT REAR, B3	3450.1-04
SPEED SENSOR - ABS, RIGHT REAR, B3	3450.1-07
SPLICE LOCATION VIEWS	8000.0
START	1240.0
STARTER IMMOBILIZATION SWITCH, S235	1240.0
STARTER, M6510	1240.0
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)	3234.0
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE, A12	3234.0
SYMBOLS	0140.0
TAIL LIGHT, LEFT, H25	6314.0-01
TAIL LIGHT, LEFT, H37	6314.0-01
TAIL LIGHT, RIGHT, H30	6314.0-01
TAIL LIGHT, RIGHT, H39	6314.0-01
TEMPERATURE SWITCH, S36	6450.6-03

TEMPERATURE SWITCH, S36	6450.6-07
TEMPERATURE WHEEL SWITCH, S531	6450.6-01
TEMPERATURE WHEEL SWITCH, S531	6450.6-05
THERMAL OIL LEVEL SENSOR (TOENS) CONTROL MODULE, A19007	6211.0-06
THERMAL OIL LEVEL SWITCH, B6254	6211.0-07
THERMOSTAT, CHARACTERISTIC MAP COOLING, B6279	1210.25-05
THROTTLE POSITION SENSOR, R6252	1210.17-05
THROTTLE POSITION SENSOR/ CRUISE CONTROL ACTUATOR, R6385	1210.25-07
THROTTLE POSITION SENSOR/ CRUISE CONTROL ACTUATOR, R6385	6571.0-03
TILT ADJUST CUT-OFF RELAY, PASSENGER'S SEAT, K910	5200.0-03
TILT SUNROOF MOTOR, M24y	5410.5-00
TILT SUNROOF SWITCH, S38y	5410.5-00
TRANSMISSION CONTROL MODULE (EGS), A8500	2460.2
TRANSMISSION POSITION INDICATOR LIGHT, E82	6300.0-02
TRANSMISSION VALVE UNIT, Y8521	2460.2-01
TRUNK COMPARTMENT LIGHT, E32	6320.0-01
TRUNK LID LOCKING SWITCH, S117	5126.0-05
TRUNK LOCK MOTOR, M17	5126.0-03
TRUNK LOCK MOTOR, M17	5126.0-05
TURN LIGHT, LEFT FRONT, H7	6313.0-02
TURN LIGHT, LEFT REAR, H6	6313.0-03
TURN LIGHT, RIGHT FRONT, H4	6313.0-02
TURN LIGHT, RIGHT REAR, H5	6313.0-03
TURN/HAZARD LIGHTS	6313.0
TYRE INFLATION SYSTEM	3614.0-00
UNLOADER RELAY, TERMINAL 15, K6326	1210.17-02
UNLOADER RELAY, TERMINAL 15, K6326	1210.25-01
UNLOADER RELAY, TERMINAL 15, K9	6424.0
VALVE RELAY (ABS/ASC), K95	3450.1-00
VALVE, INDIVIDUAL CONTROL INTAKE SYSTEM, Y6167	1210.25-03
VARIABLE CAMSHAFT CONTROL VALVE 1 (INLET), Y6275z	1210.25-03



INDEX

VARIABLE CAMSHAFT CONTROL VALVE 1, Y6275	1210.17-01
VARIABLE CAMSHAFT CONTROL VALVE 2 (OUTLET), Y6276	1210.25-03
VEHICLE SPEED SENSOR, B10	6211.0-02
VOLTMETER, B211	6211.0-05
WASHER JET HEATER, LEFT, E51	6169.0-00
WASHER JET HEATER, RIGHT, E52	6169.0-00
WASHER PUMP, M4	6160.1-01
WASHER PUMP, M4	6160.1-02
WATER VALVE, Y4z	6450.6-01
WATER VALVE, Y4z	6450.6-05
WINDOW MOTOR, DRIVER'S, M21	5133.0-02
WINDSHIELD WASHER JET HEATERS	6169.0-00
WIPER MOTOR, M3	6160.1-00
WIPER/WASHER MODULE (WWM)	6160.1
WIPER/WASHER MODULE, A51	6160.1
WIPER/WASHER MODULE, A51	6167.1-00
WIPER/WASHER SWITCH, S5	6160.1-01
WIPER/WASHER SWITCH, S5	6160.1-02
ZKE CENTRAL LOCKING (ZV)	5126.0
ZKE POWER WINDOWS (FH)	5133.0

Schematics

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

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

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

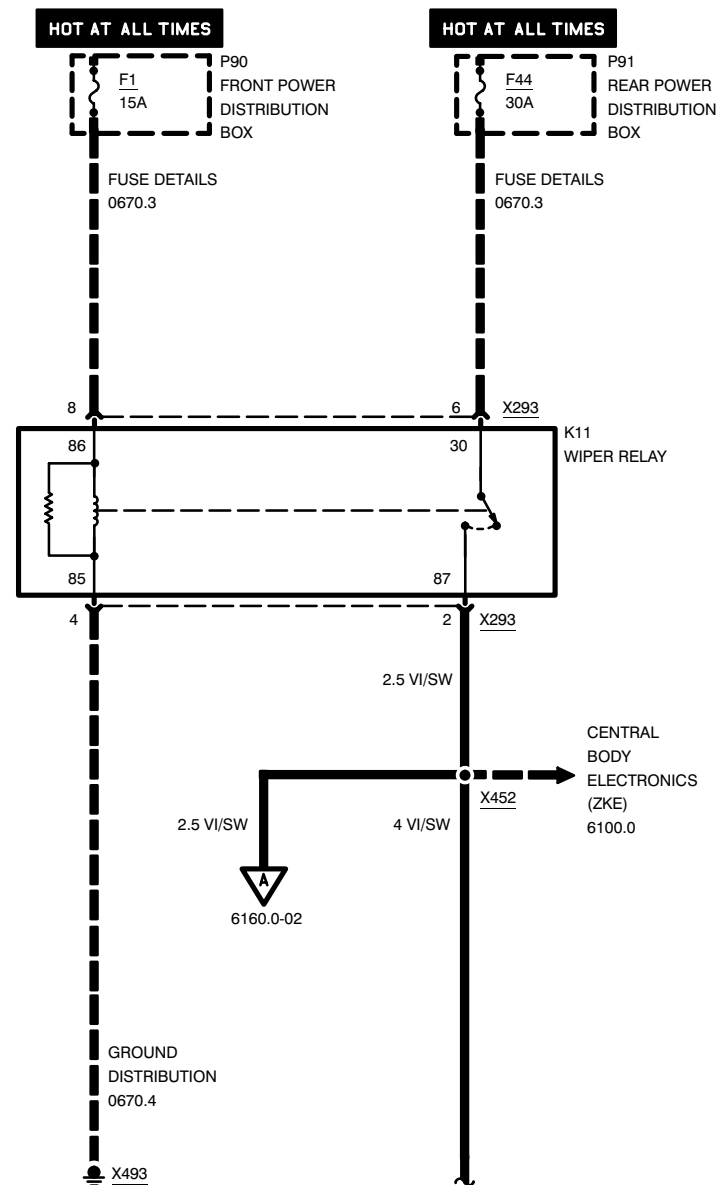
All circuit symbols used are listed and explained in cell **0140.0 Symbols**.

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

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

Example

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





Z3

INTRODUCTION

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.

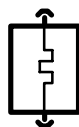


Z3

SYMBOLS



BATTERY



HEATING ELEMENT



VARIABLE RESISTANCE SENSOR
VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE



ANTENNA



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



HALL EFFECT SENSOR



RADIO



CIRCUIT BREAKER



PERMANENT MAGNET MOTOR ONE SPEED



ZENER DIODE TO REGULATE VOLTAGE



TRANSISTORIZED SWITCH

31



THERMO SWITCH



PERMANENT MAGNET MOTOR TWO SPEEDS



LIGHT EMITTING DIODE



INDUCTIVE SENSOR



SOLENOID



KNOCK SENSOR



OXYGEN SENSOR



VEHICLE SPEED SENSOR

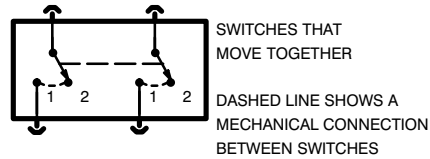
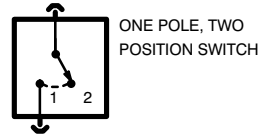
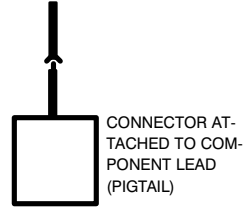
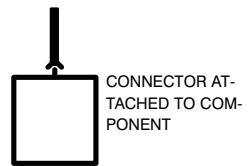
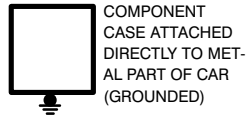
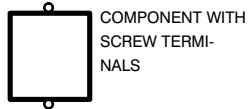
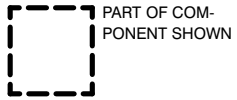
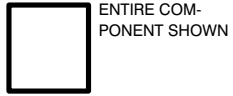


SOLENOID CONTROLLED VALVE OR CLUTCH SOLENOID

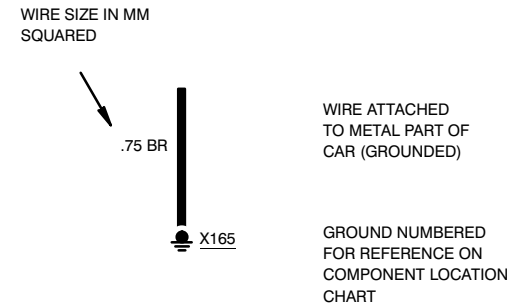
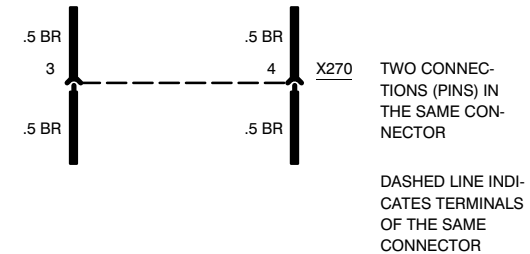
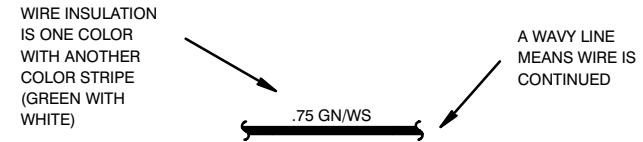
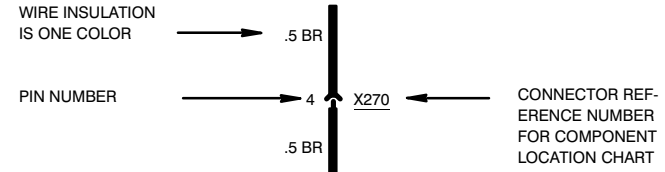


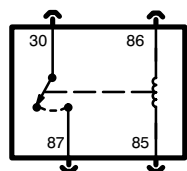
Z3

SYMBOLS

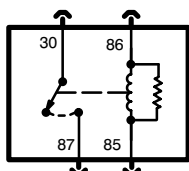


WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT

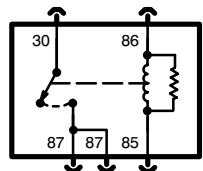




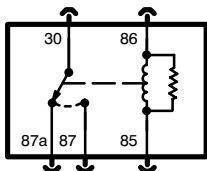
CONTACT RELAY



RELAY WITH RE-SISTOR ACROSS WINDING

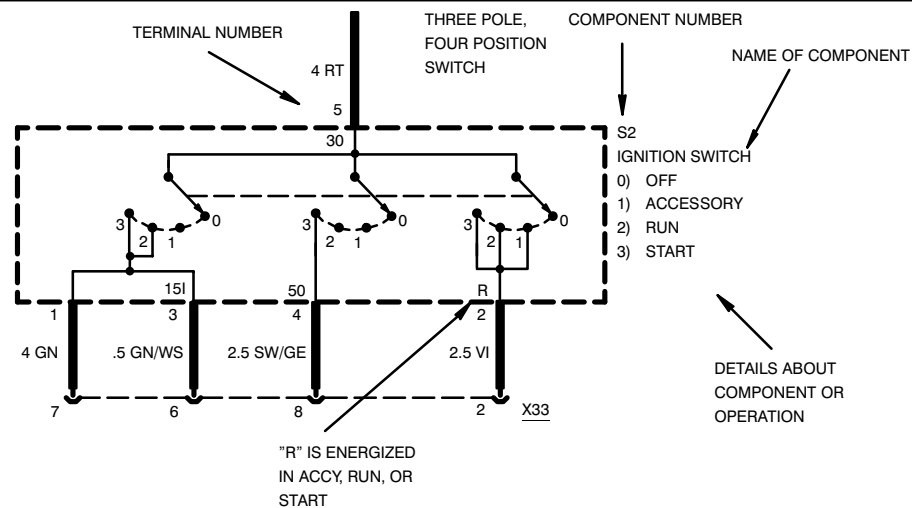


CONTACT RELAY WITH TWO OUTPUTS



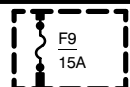
CHANGEOVER RELAY WITH TWO OUTPUTS

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



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

HOT AT ALL TIMES



INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

POWER STATUS

HOT AT ALL TIMES

HOT IN RUN AND START

HOT IN ACCY, RUN AND START

DESCRIPTION

VOLTAGE: SUPPLIED AT ALL TIMES

VOLTAGE: IGNITION SWITCH IN RUN OR START

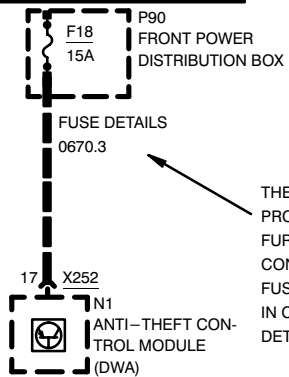
VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START



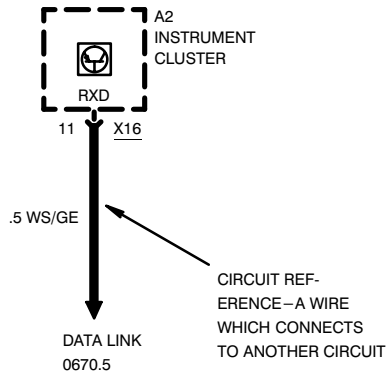
SYMBOLS

Z3

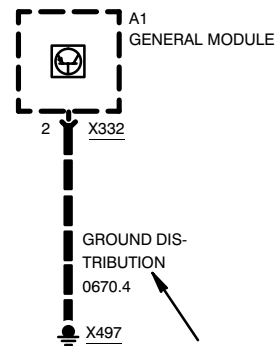
HOT IN ACCY, RUN AND START



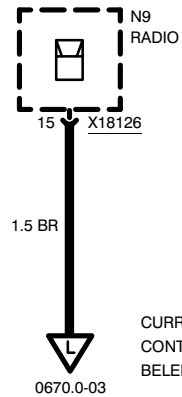
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO FUSE 18 ARE SHOWN IN CELL "0670.3 FUSE DETAILS" AT FUSE 18



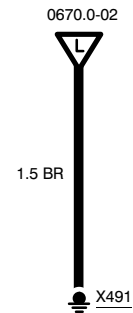
CIRCUIT REFERENCE - A WIRE WHICH CONNECTS TO ANOTHER CIRCUIT



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

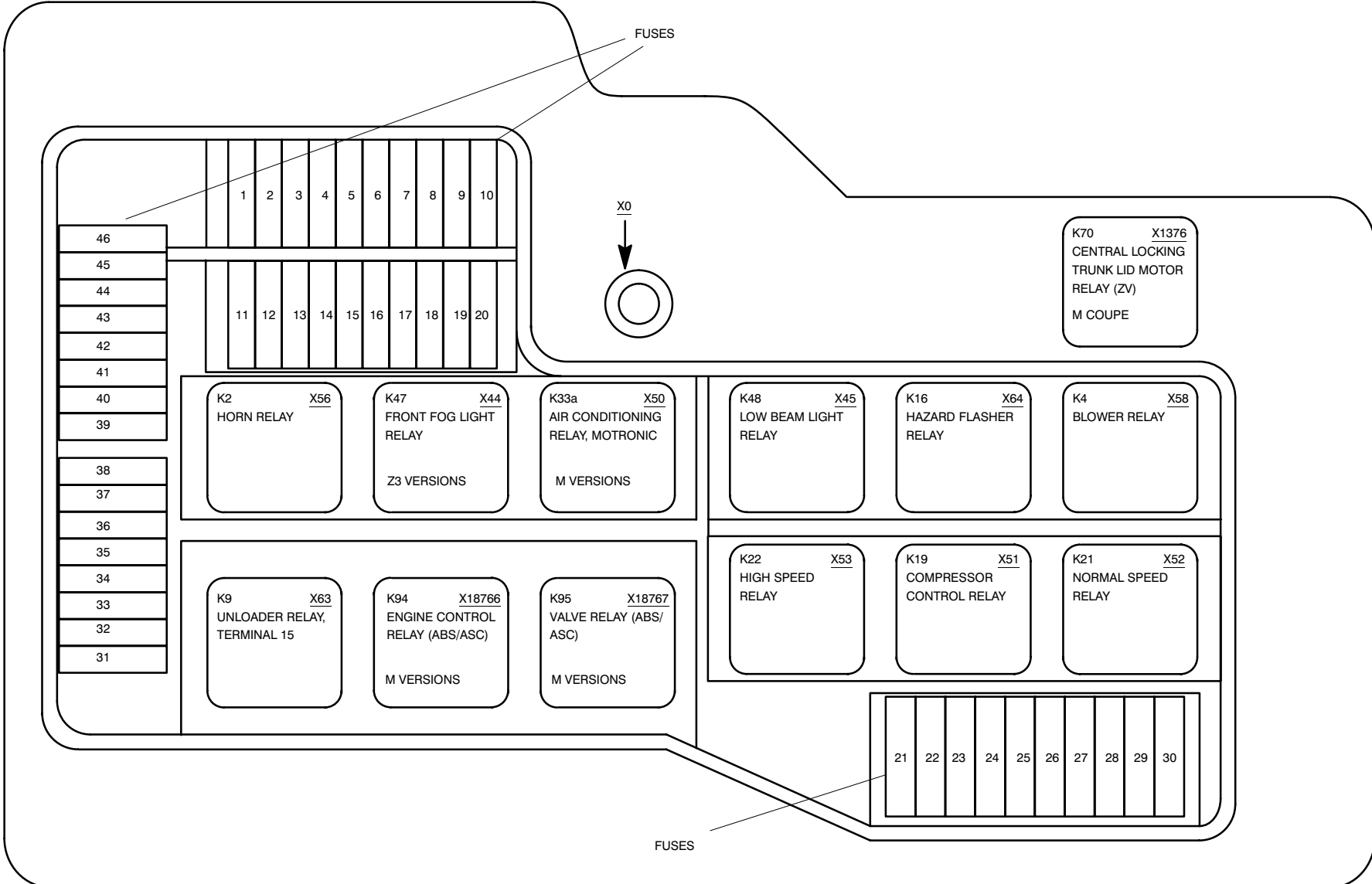


ARROW SHOWS DIRECTION OF CURRENT FLOW AND IS REPEATED WHERE CURRENT PATH CONTINUES



POWER DISTRIBUTION CHART

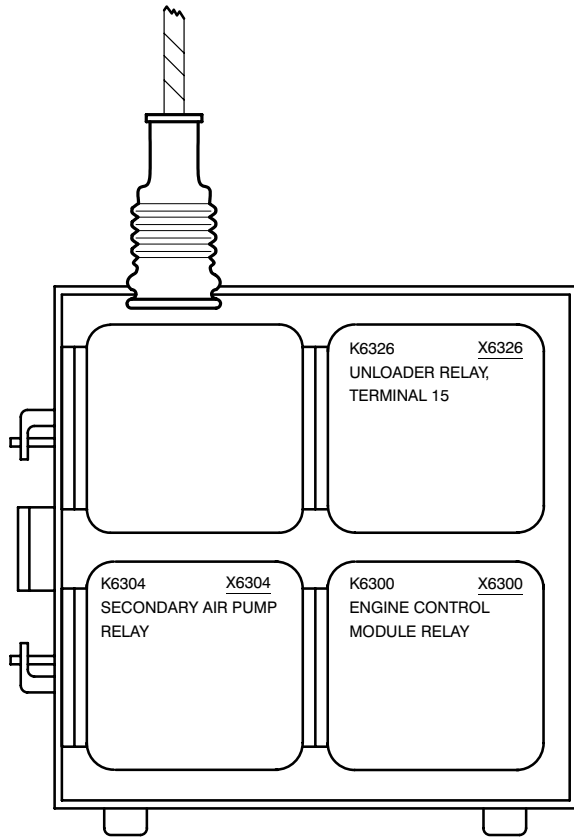
FRONT POWER DISTRIBUTION BOX



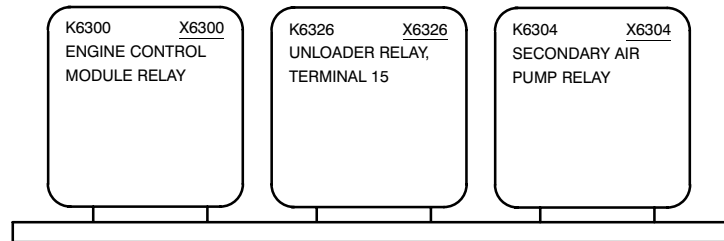


POWER DISTRIBUTION CHART

IN E-BOX



M VERSIONS

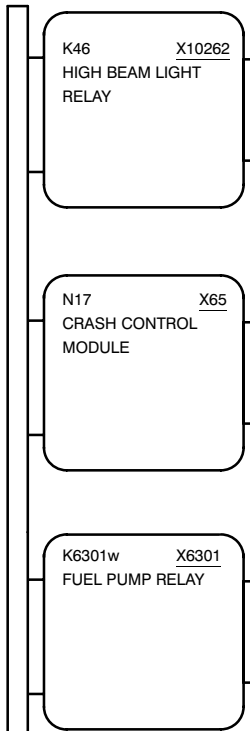


Z3 VERSIONS



POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD



09/98

0670.0-02

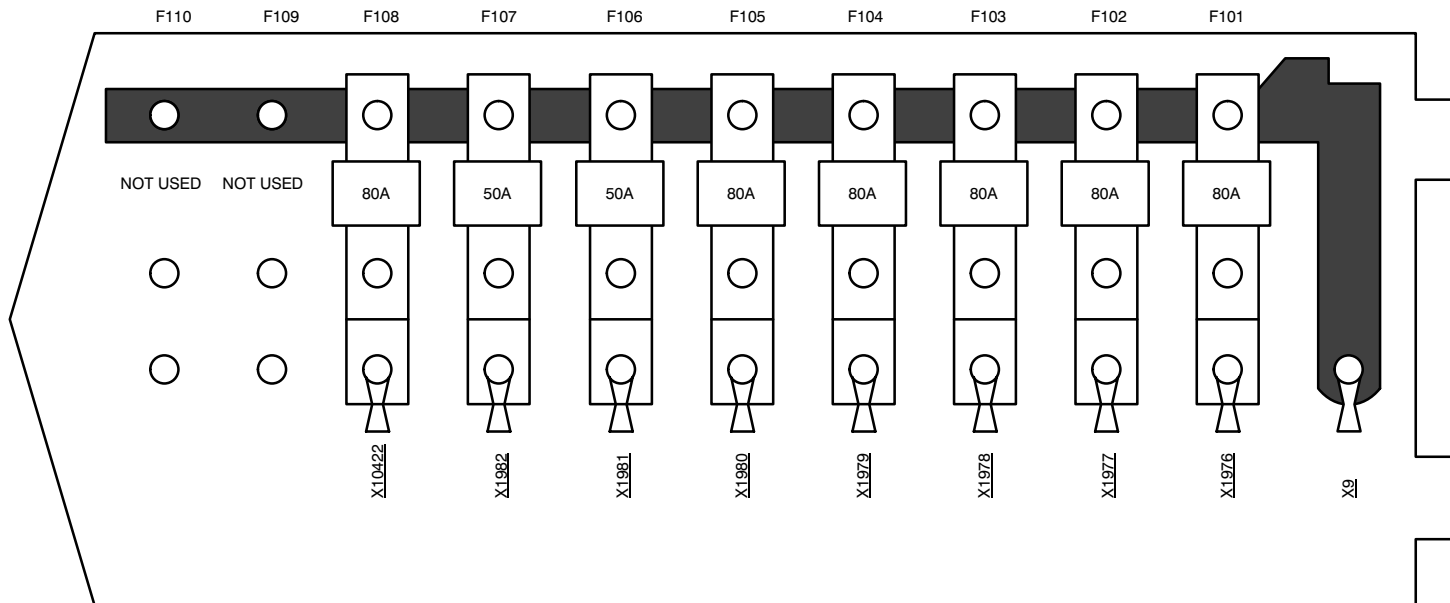
1999



POWER DISTRIBUTION CHART

Z3 VERSIONS

B+ JUNCTION POINT UNDER LH SIDE OF DASHBOARD





FUSE CHART

FUSES 1 TO 29

Z3

* M VERSIONS

	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 10A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	*5A 7.5A	30A	10A	5A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A	
1210.17 ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)													●			●		●											
1210.25 ENGINE CONTROL SYSTEM MS42.1 (6-CYLINDER M52)													●			●		●					●			●	●		
1230.0 CHARGING SYSTEM																										●	●		
1240.0 START																												●	
1290.0 E-BOX FAN																										●			
2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																										●		●	
3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																								●			●		
3450.1 SLIP CONTROL (ABS/ASC)										●			●								●								
3614.0 TYRE INFLATION SYSTEM																													
5116.0 POWER MIRRORS																									●				
5126.0 ZKE CENTRAL LOCKING (ZV)							●																						
5133.0 ZKE POWER WINDOWS (FH)														●															
5200.0 POWER SEATS					●															●									
5203.0 HEATED SEATS			●																										
5410.5 POWER TILT SUNROOF																								●					
5430.0 ELECTRO-MECHANICAL CONVERTIBLE TOP	●																												
6100.0 CENTRAL BODY ELECTRONICS (ZKE IV)		●												●															
6133.0 HORN							●																						
6135.1 DRIVE-AWAY PROTECTION (EWS III)																												●	
6160.1 WIPER/WASHER MODULE (WWM)	●		●																										
6167.1 HEADLIGHT WASHER (SRA)			●																										



FUSE CHART

FUSES 1 TO 29

* M VERSIONS

		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 10A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	*5A 7.5A	30A	10A	5A		15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6169.0	WINDSHIELD WASHER JET HEATERS																													
6211.0	INSTRUMENT CLUSTER																													
6213.3	DIGITAL CLOCK																													
6300.0	LIGHT SWITCH DETAILS																													
6312.0	HEADLIGHTS/FOG LIGHTS																													
6313.0	TURN/HAZARD LIGHTS																													
6314.0	PARK/TAIL/UNDERHOOD LIGHTS																													
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS																													
6322.0	BACK UP LIGHTS																													
6325.0	BRAKE LIGHTS																													
6330.3	INTERIOR LIGHTS																													
6332.0	INTERIOR ACCESSORIES																													
6350.0	CRASH CONTROL MODULE																													
6424.0	REAR WINDOW DEFOGGER																													
6450.6	INTEGRATED HEATING- AND CLIMATE CONTROL																													
6510.1	RADIO/HIFI																													
6561.0	CELLULAR TELEPHONE (PROVISIONS)																													
6571.0	CRUISE CONTROL (TEMPOMAT)																													
6575.2	ANTI-THEFT SYSTEM (ALPINE)																													
6581.3	BOARD COMPUTER (BC-LOW)																													



FUSE CHART

FUSES 30 TO 205

	FUSE NUMBER																																
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49					202	203	204	205					
	7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	15A	5A	5A	15A	7.5A	15A		40A	50A					30A	20A	30A	30A					
1210.17 ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)										●																							
1210.25 ENGINE CONTROL SYSTEM MS42.1 (6-CYLINDER M52)										●							●								●	●	●	●					
1230.0 CHARGING SYSTEM																																	
1240.0 START		●														●																	
1290.0 E-BOX FAN																																	
2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																	●										●						
3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)												●	●																				
3450.1 SLIP CONTROL (ABS/ASC)									●							●			●														
3614.0 TYRE INFLATION SYSTEM																																	
5116.0 POWER MIRRORS																																	
5126.0 ZKE CENTRAL LOCKING (ZV)						●								●																			
5133.0 ZKE POWER WINDOWS (FH)																																	
5200.0 POWER SEATS																																	
5203.0 HEATED SEATS																																	
5410.5 POWER TILT SUNROOF																																	
5430.0 ELECTRO-MECHANICAL CONVERTIBLE TOP																	●																
6100.0 CENTRAL BODY ELECTRONICS (ZKE IV)				●		●									●																		
6133.0 HORN															●																		
6135.1 DRIVE-AWAY PROTECTION (EWS III)		●														●																	
6160.1 WIPER/WASHER MODULE (WWM)							●	●								●																	
6167.1 HEADLIGHT WASHER (SRA)							●									●																	



FUSE CHART

FUSES 30 TO 205

Z3

	FUSE NUMBER																												
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49				202	203	204	205		
	7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	15A	5A	5A	15A	7.5A	15A		40A	50A				30A	20A	30A	30A		
6169.0	WINDSHIELD WASHER JET HEATERS																												
6211.0		●																		●									
6213.3		●															●												
6300.0				●				●																					
6312.0	●																												
6313.0					●																								
6314.0				●				●																					
6320.0				●				●																					
6322.0	BACK UP LIGHTS																												
6325.0																					●								
6330.3				●											●														
6332.0			●					●																					
6350.0					●																								
6424.0	REAR WINDOW DEFOGGER																												
6450.6										●	●									●									
6510.1																●													
6561.0				●												●													
6571.0																					●								
6575.2		●														●													
6581.3		●																			●								

09/98

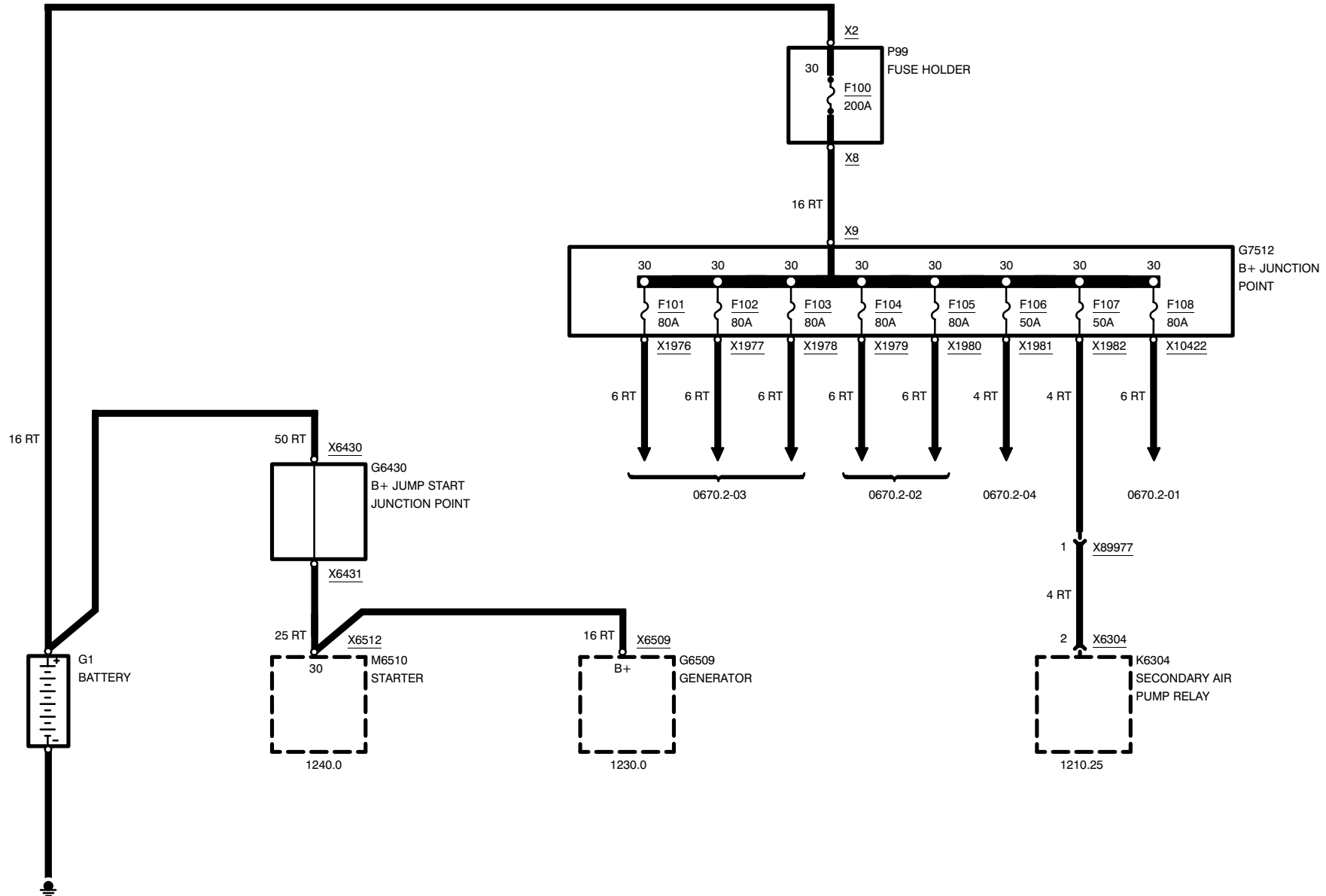
0670.1-03

1999



POWER DISTRIBUTION

Z3 VERSIONS



09/98

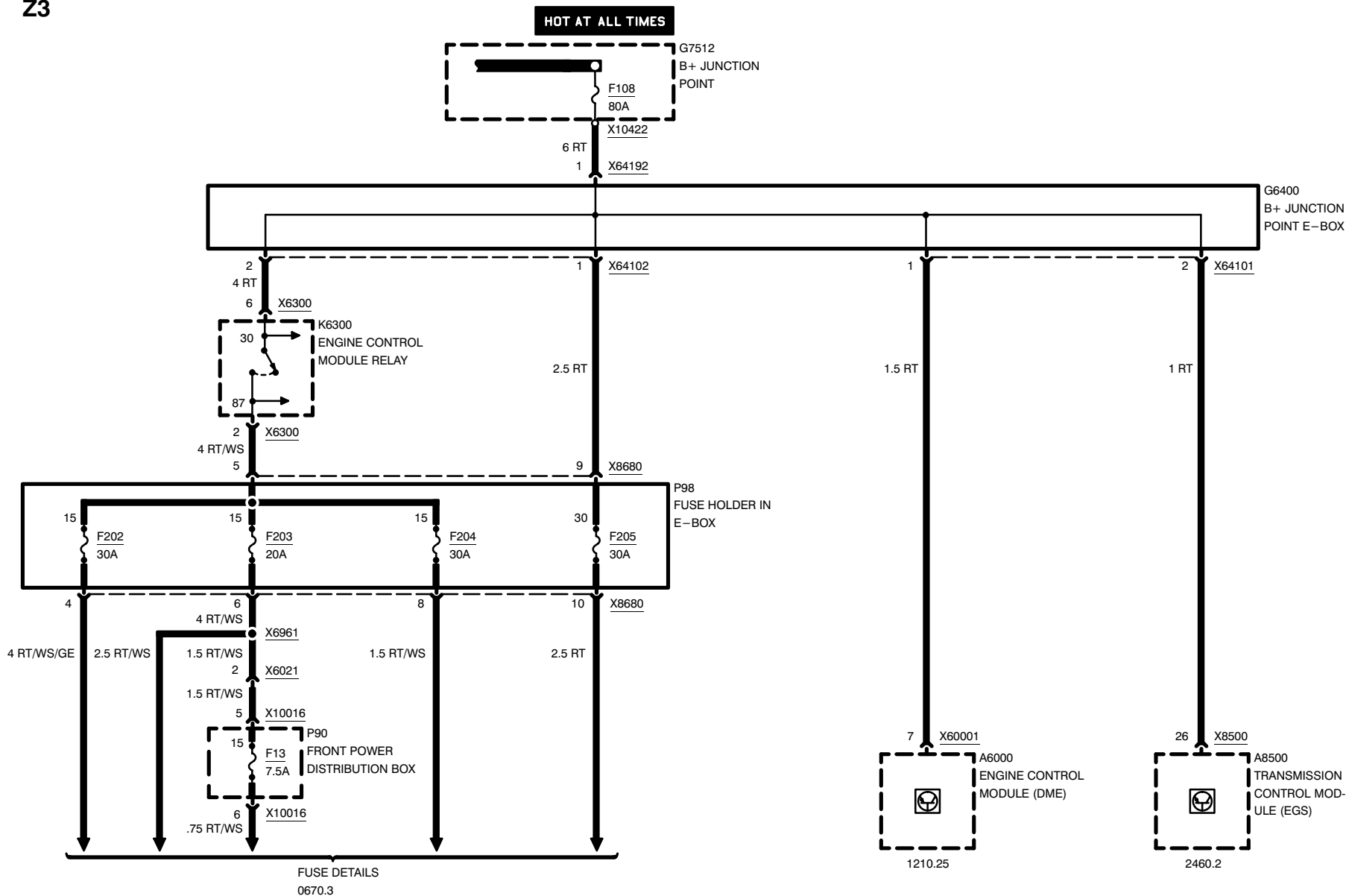
0670.2-00

1999



POWER DISTRIBUTION

Z3 VERSIONS



09/98

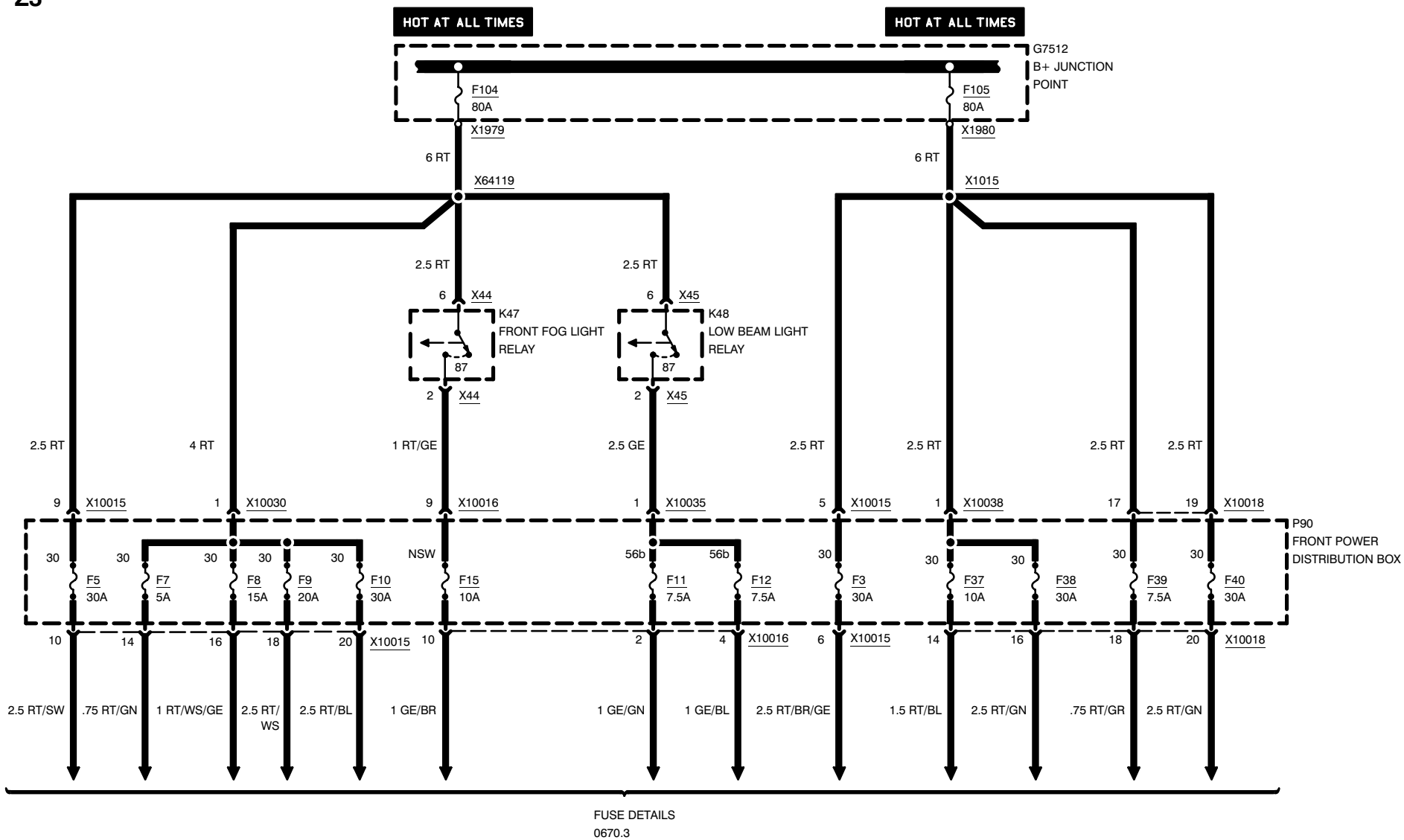
0670.2-01

1999



POWER DISTRIBUTION

Z3 VERSIONS



09/98

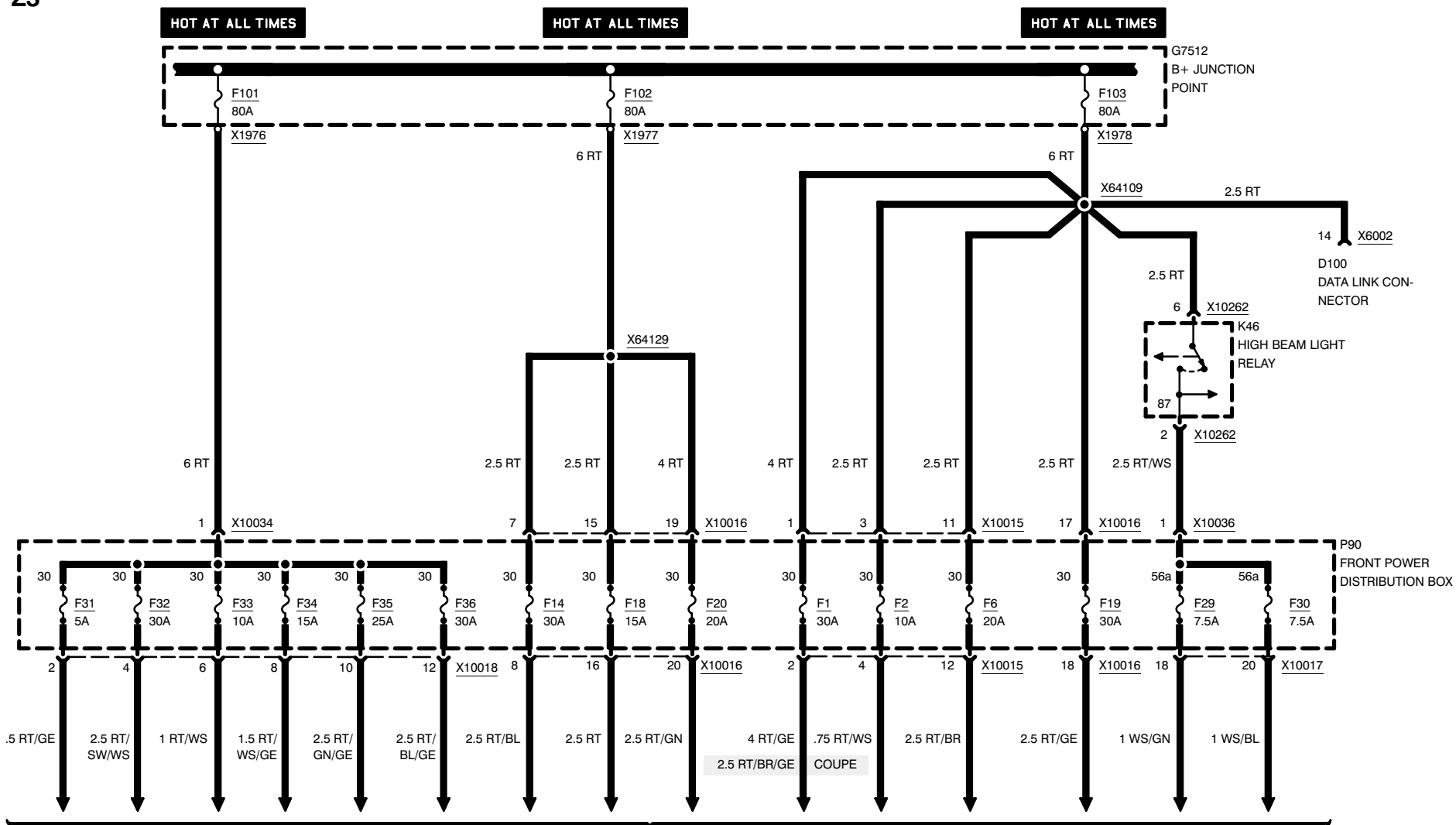
0670.2-02

1999



POWER DISTRIBUTION

Z3 VERSIONS



FUSE DETAILS
0670.3

09/98

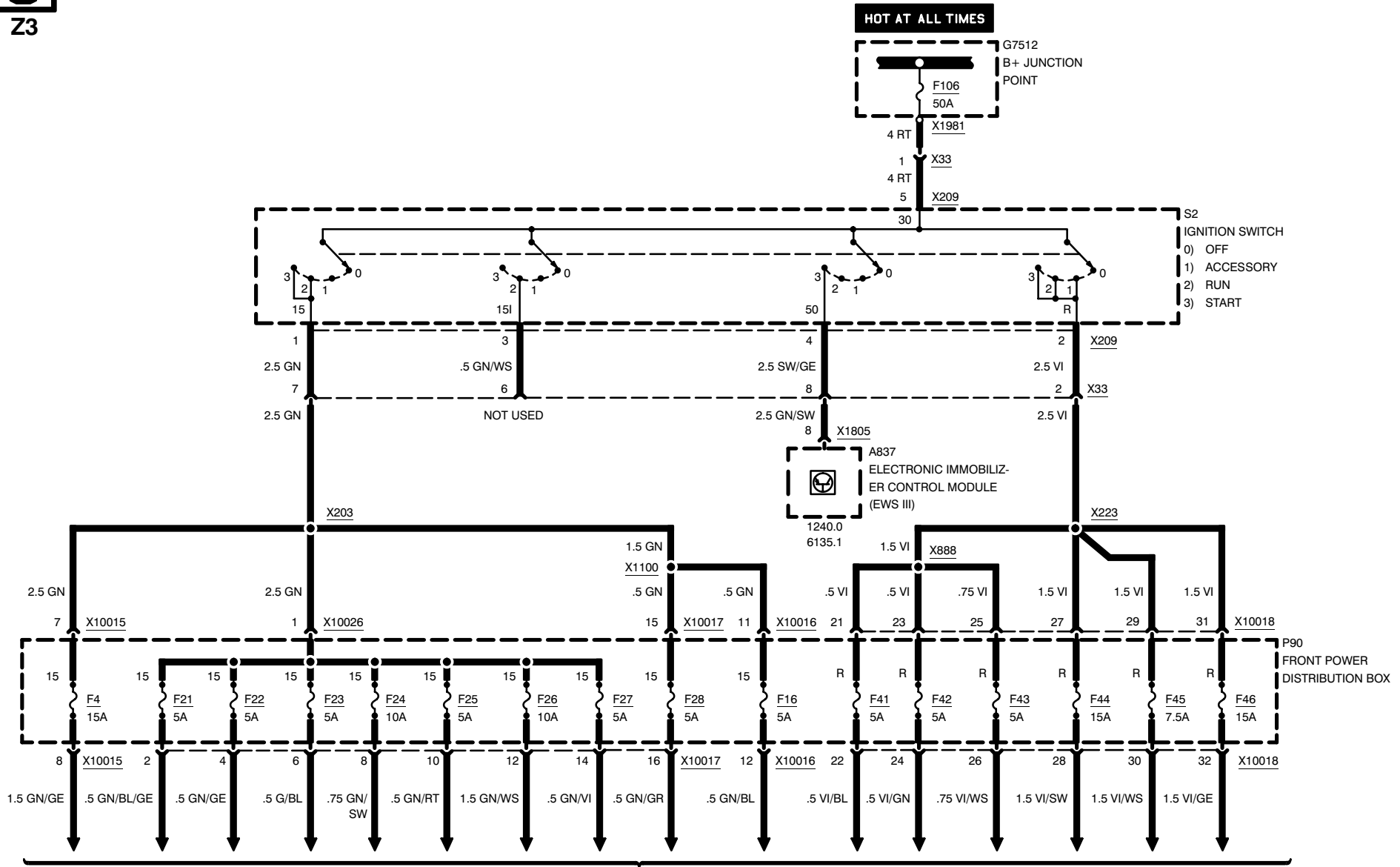
0670.2-03

1999



POWER DISTRIBUTION

Z3 VERSIONS



FUSE DETAILS
0670.3

09/98

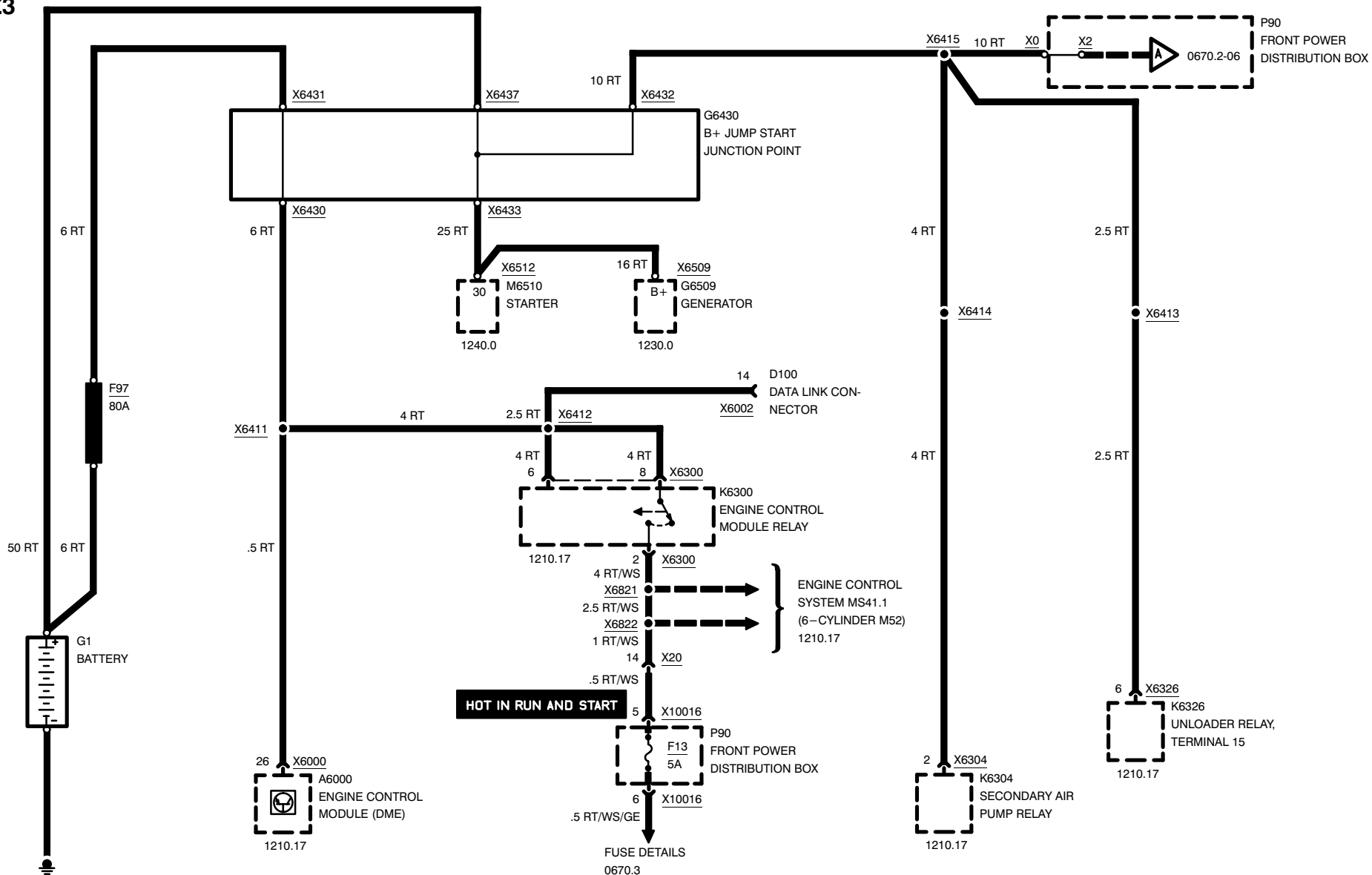
0670.2-04

1999



POWER DISTRIBUTION

M VERSIONS



09/98

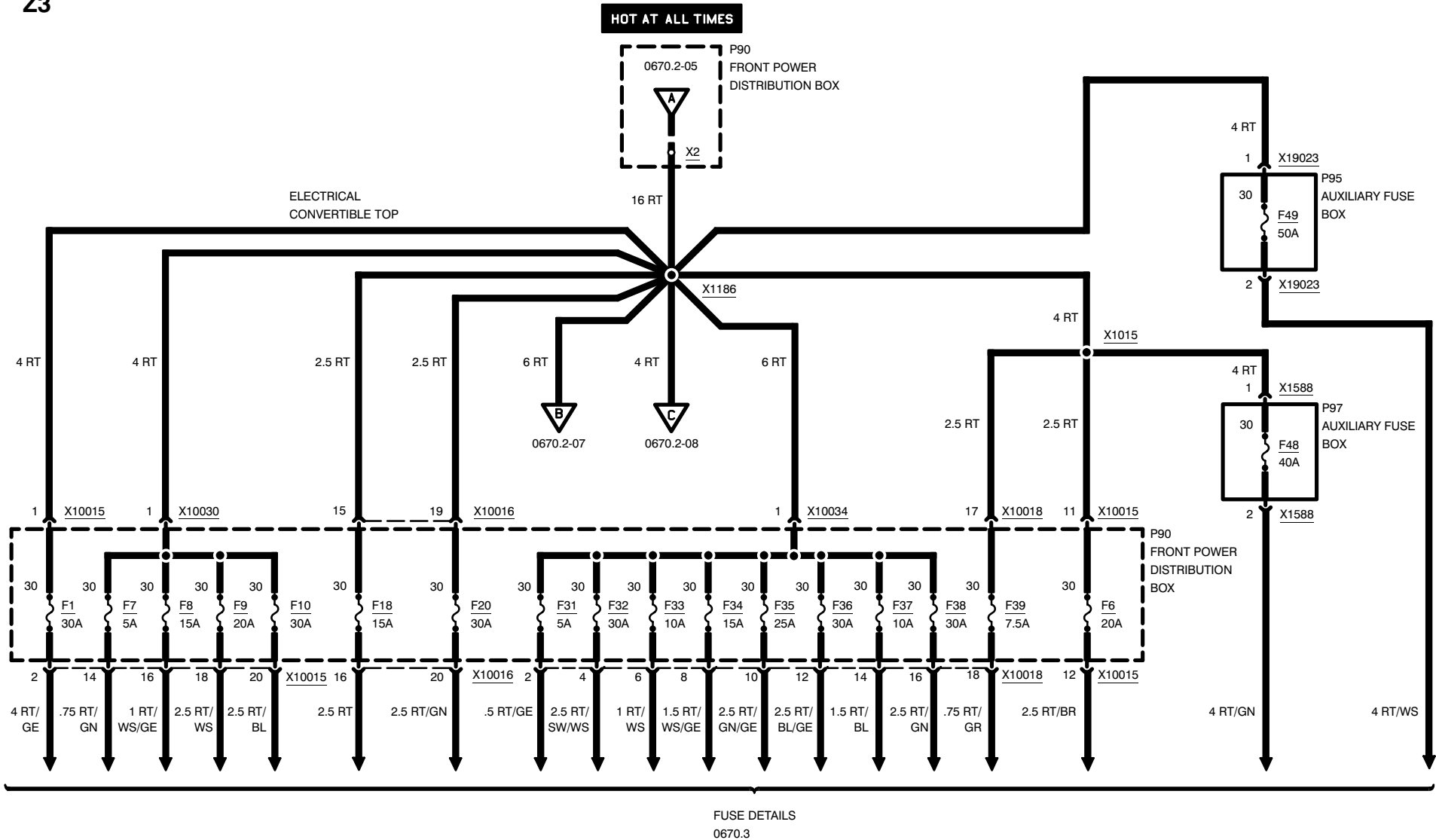
0670.2-05

1999



POWER DISTRIBUTION

M VERSIONS



09/98

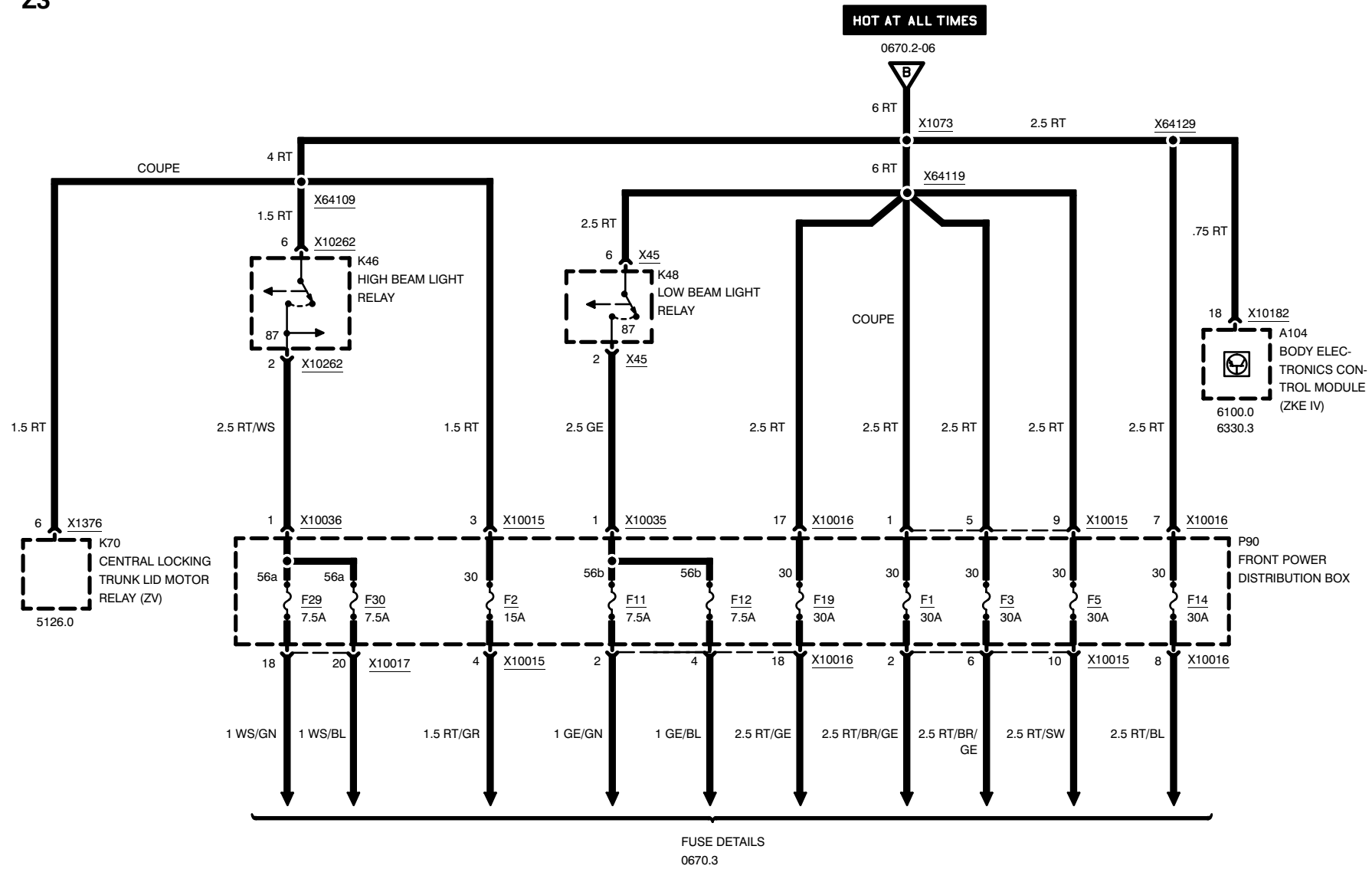
0670.2-06

1999



POWER DISTRIBUTION

M VERSIONS



09/98

0670.2-07

1999



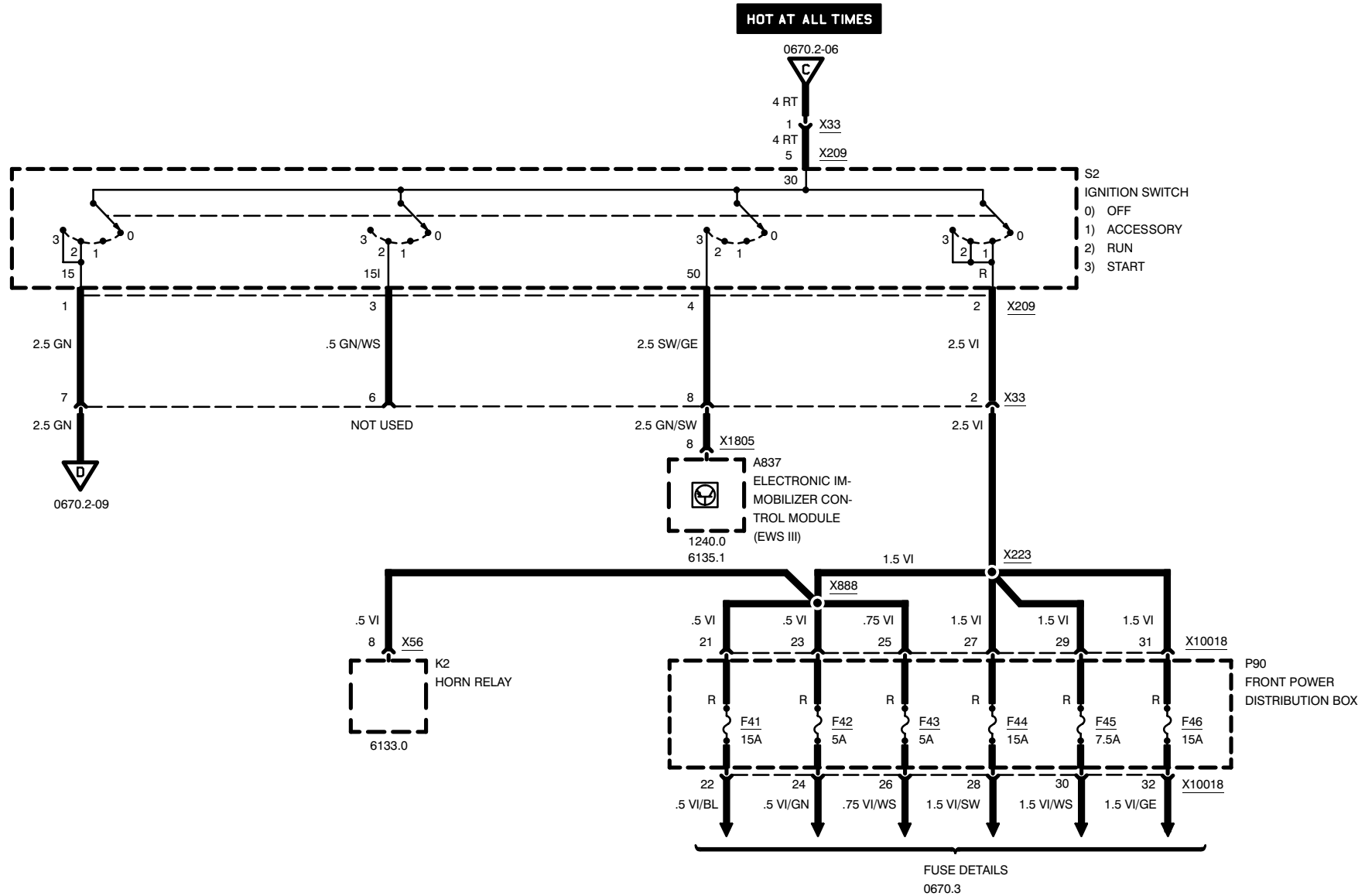
POWER DISTRIBUTION

M VERSIONS

09/98

0670.2-08

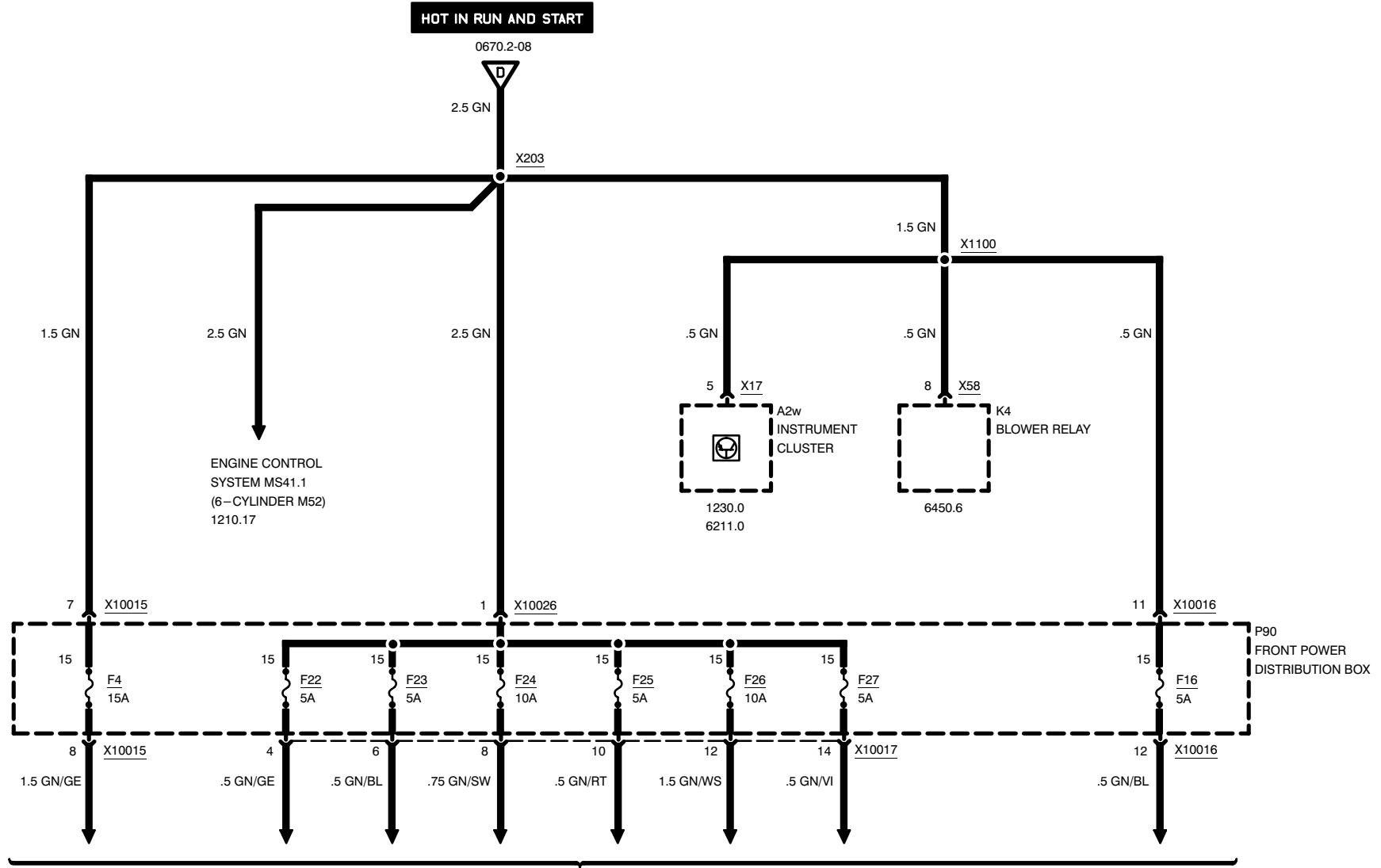
1999





POWER DISTRIBUTION

M VERSIONS



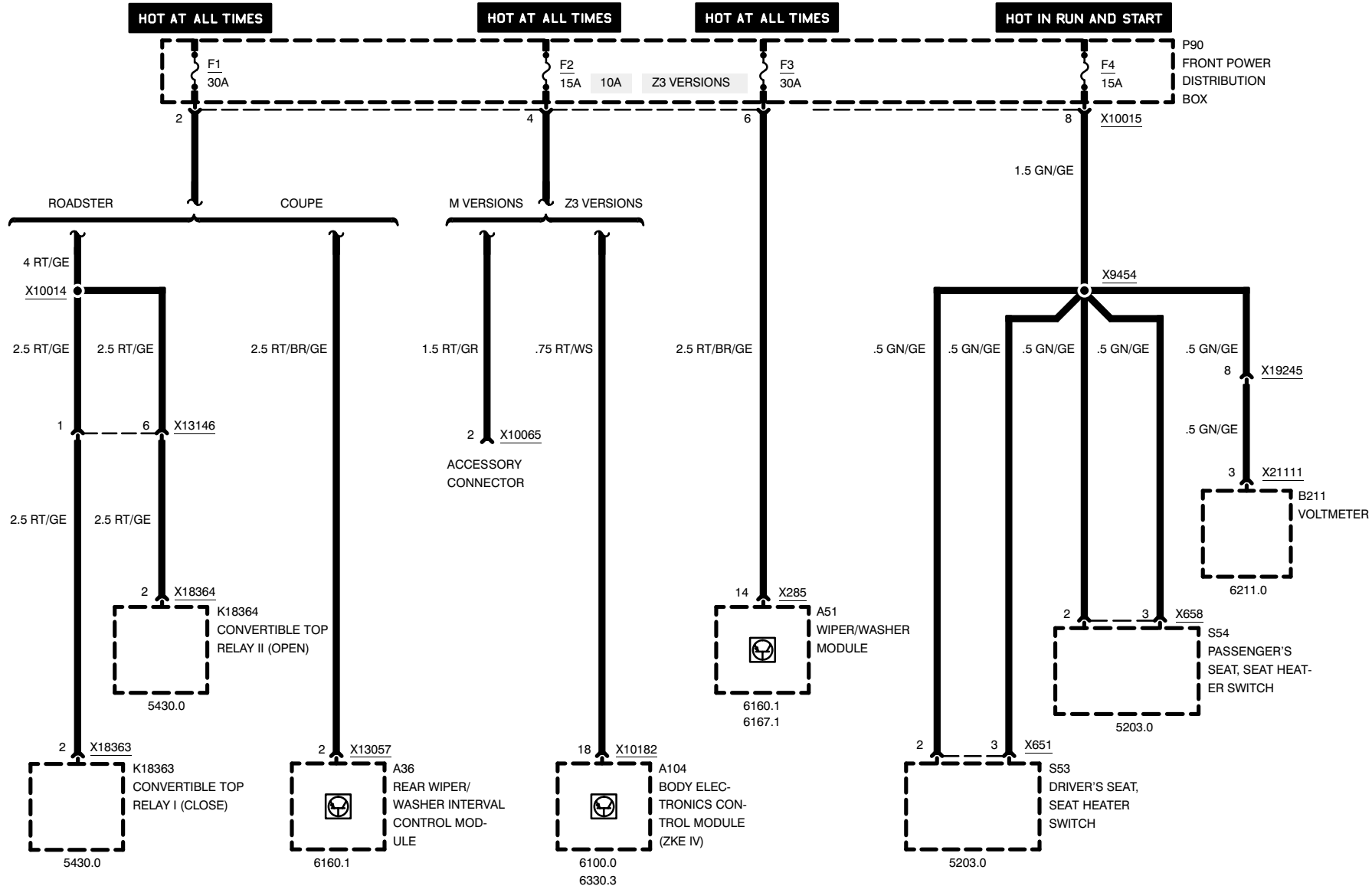
FUSE DETAILS
0670.3

09/98 — 0670.2-09 — 1999



FUSE DETAILS

FUSES 1, 2, 3, AND 4



09/98

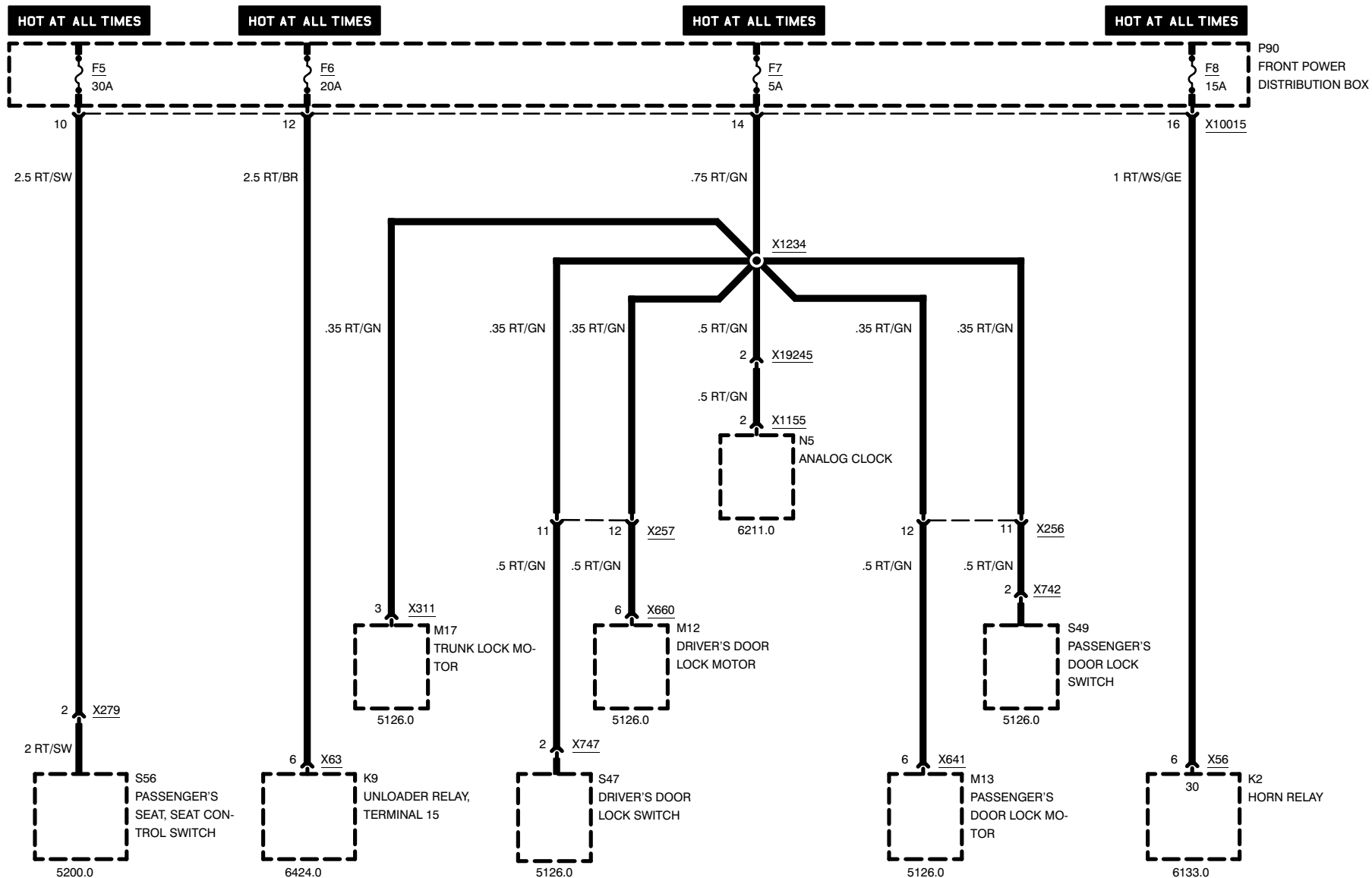
0670.3-00

1999



FUSE DETAILS

FUSES 5, 6, 7, AND 8



09/98

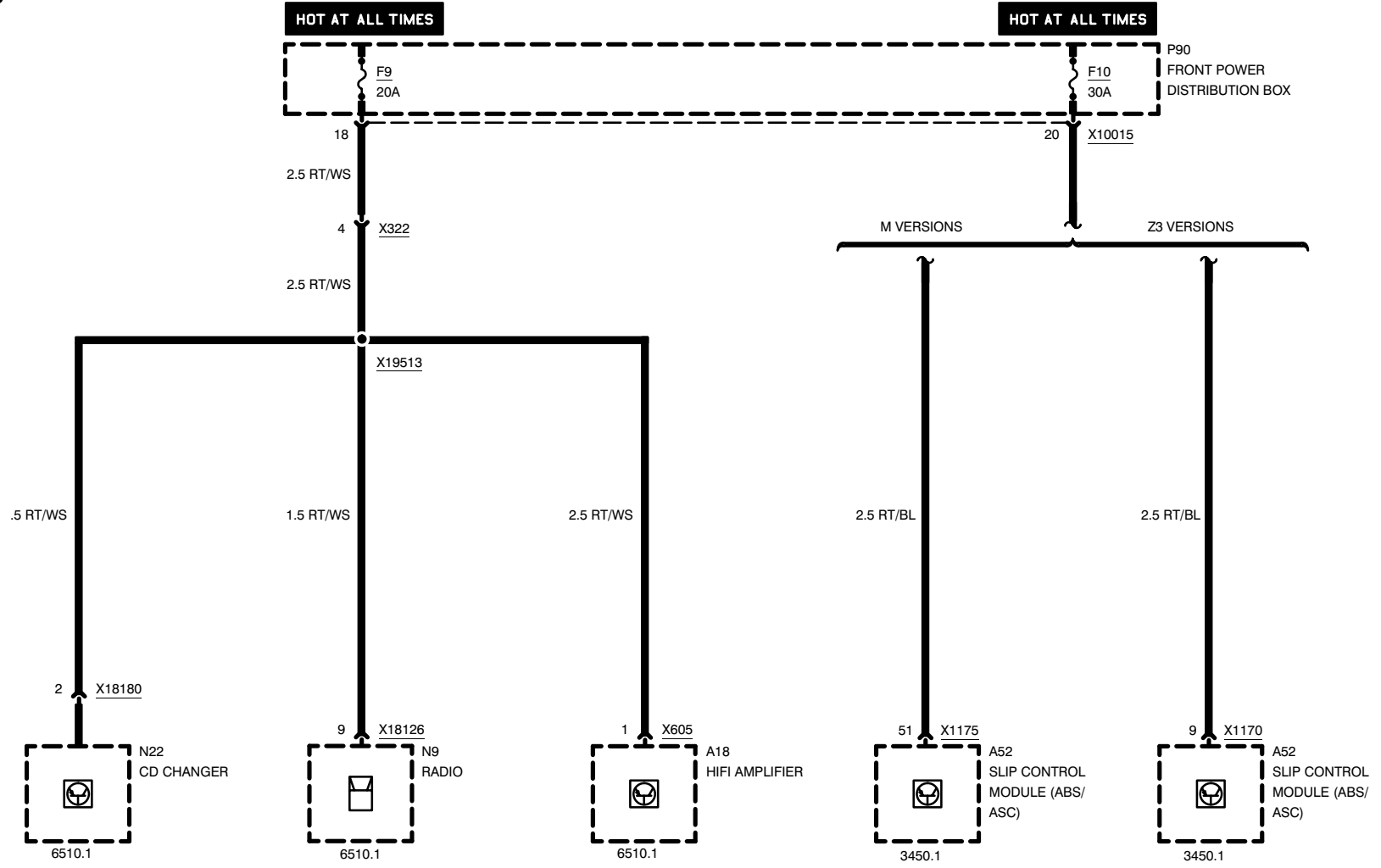
0670.3-01

1999



FUSE DETAILS

FUSES 9 AND 10



09/98

0670.3-02

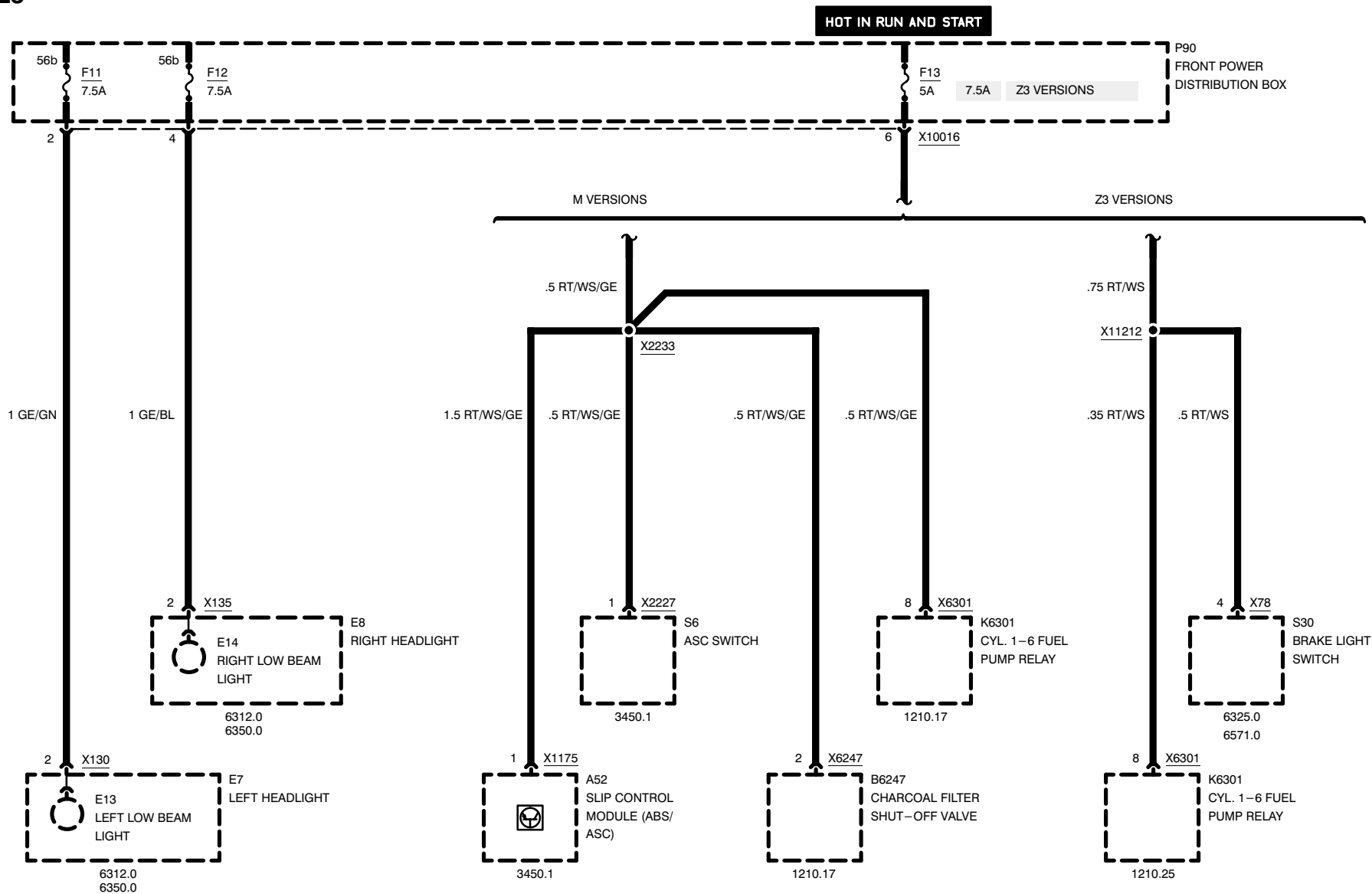
1999



FUSE DETAILS

FUSES 11, 12, AND 13

Z3



09/98

0670.3-03

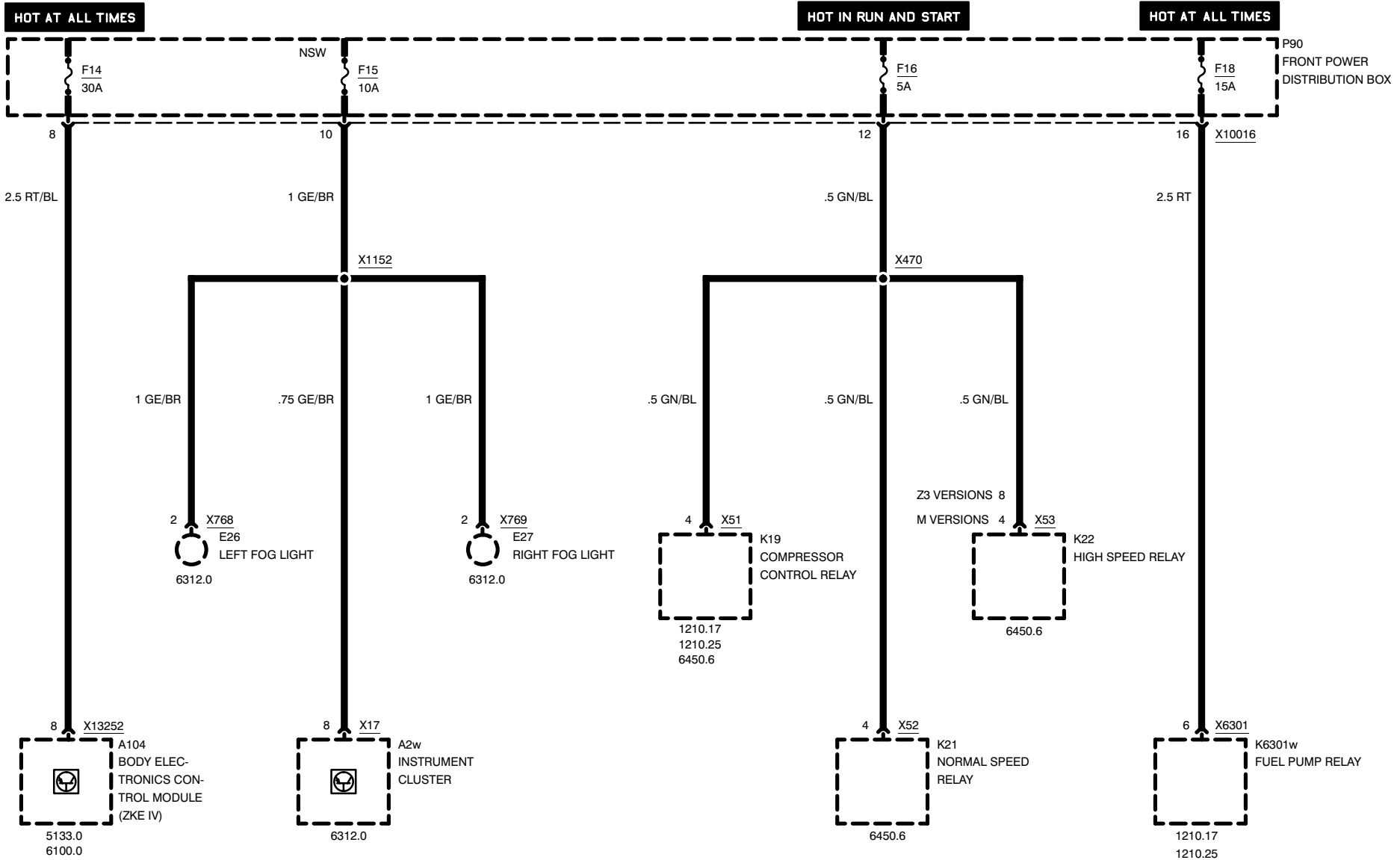
1999



FUSE DETAILS

FUSES 14, 15, 16, AND 18

Z3



09/98

0670.3-04

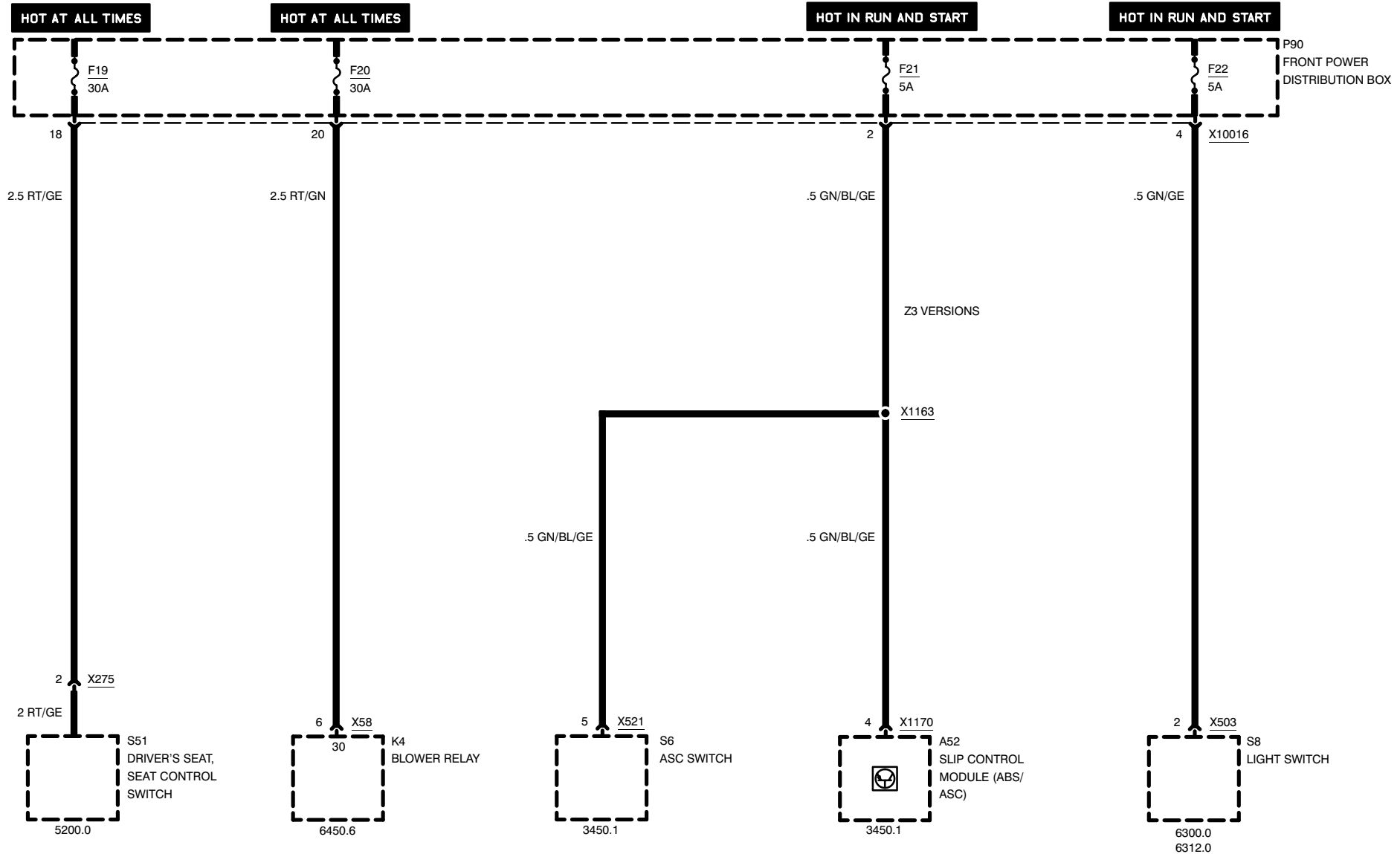
1999



FUSE DETAILS

FUSES 19, 20, 21, AND 22

Z3



09/98

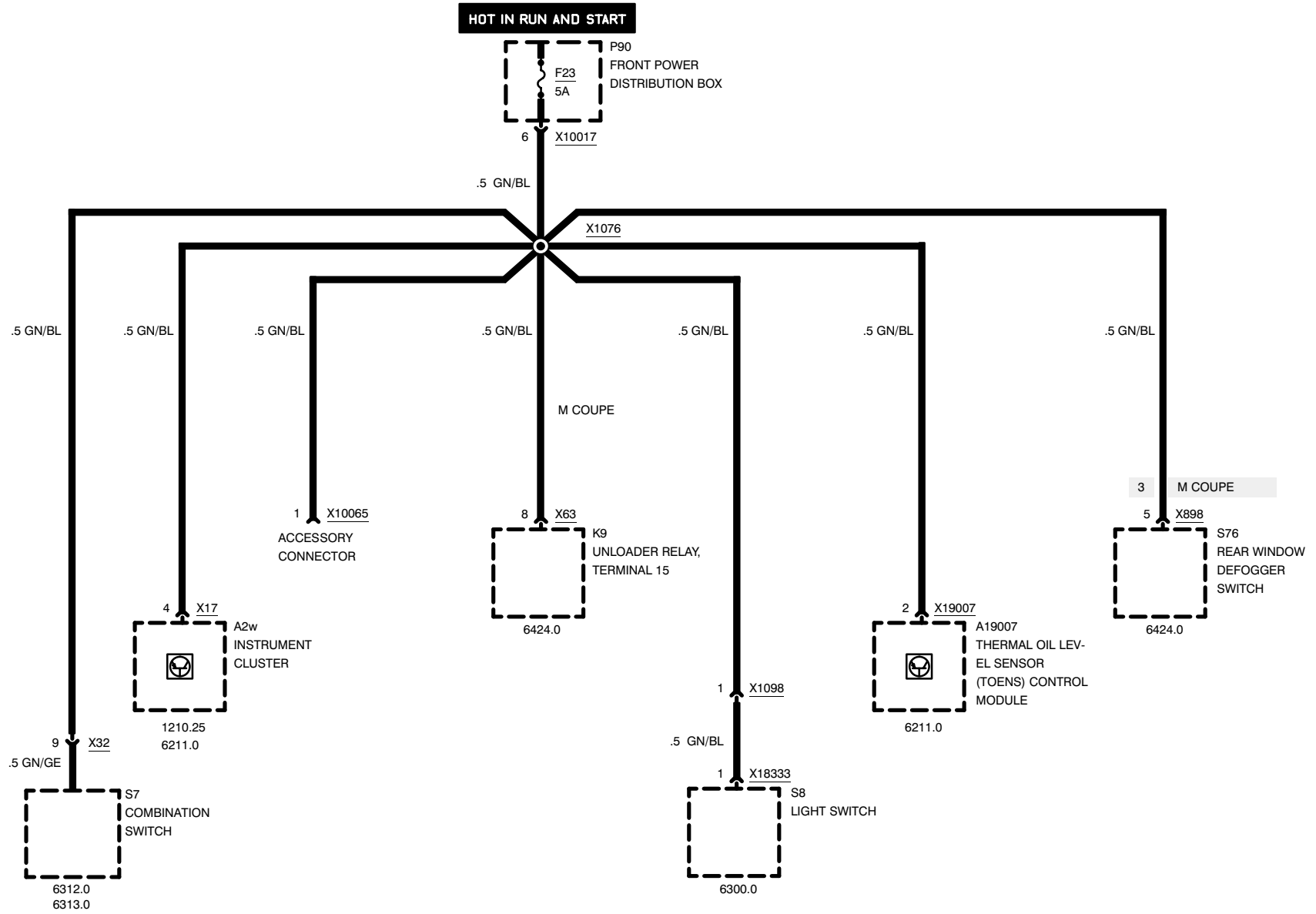
0670.3-05

1999



FUSE DETAILS

FUSE 23



09/98

0670.3-06

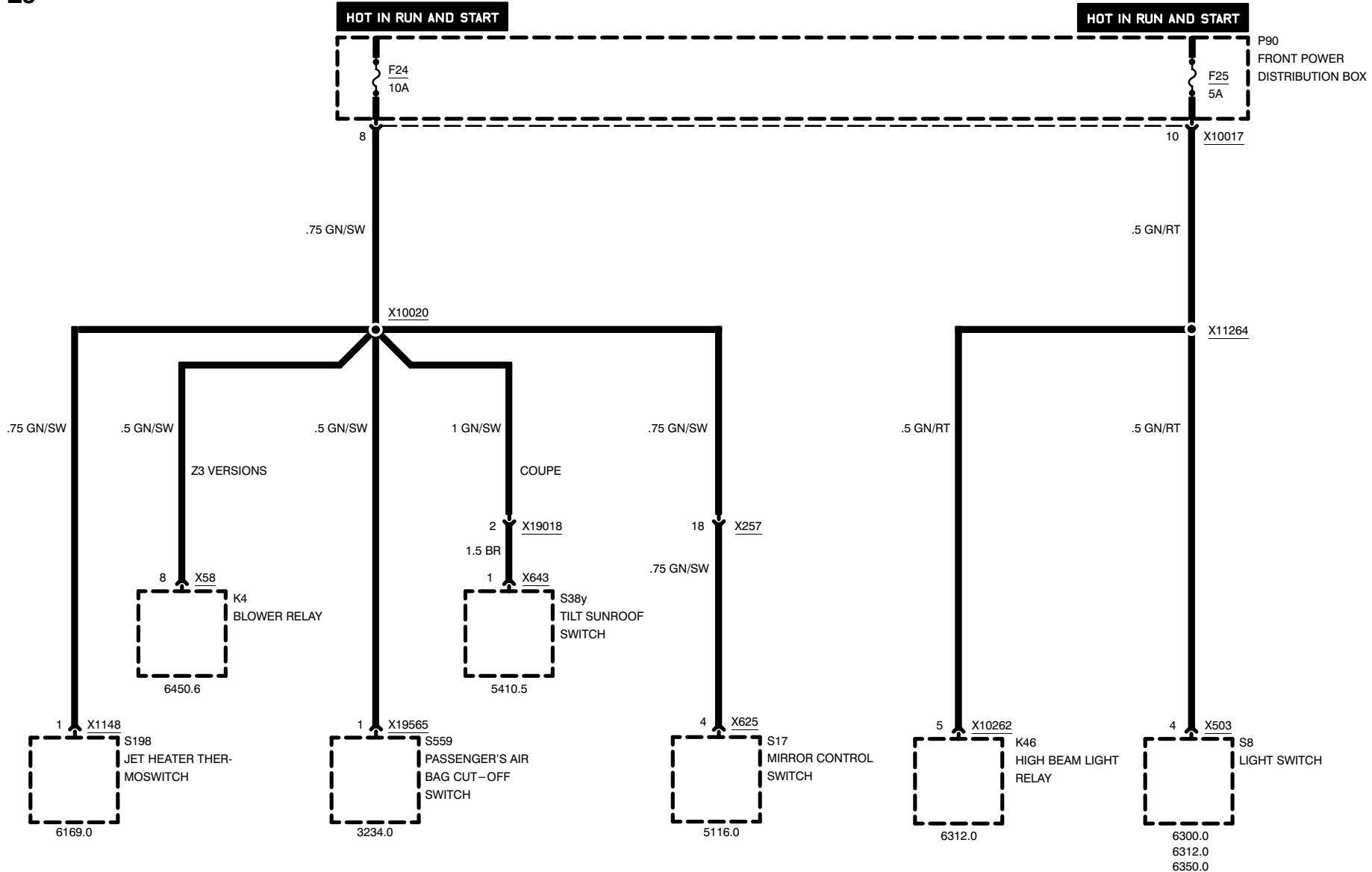
1999



FUSE DETAILS

FUSES 24 AND 25

Z3



09/98

0670.3-07

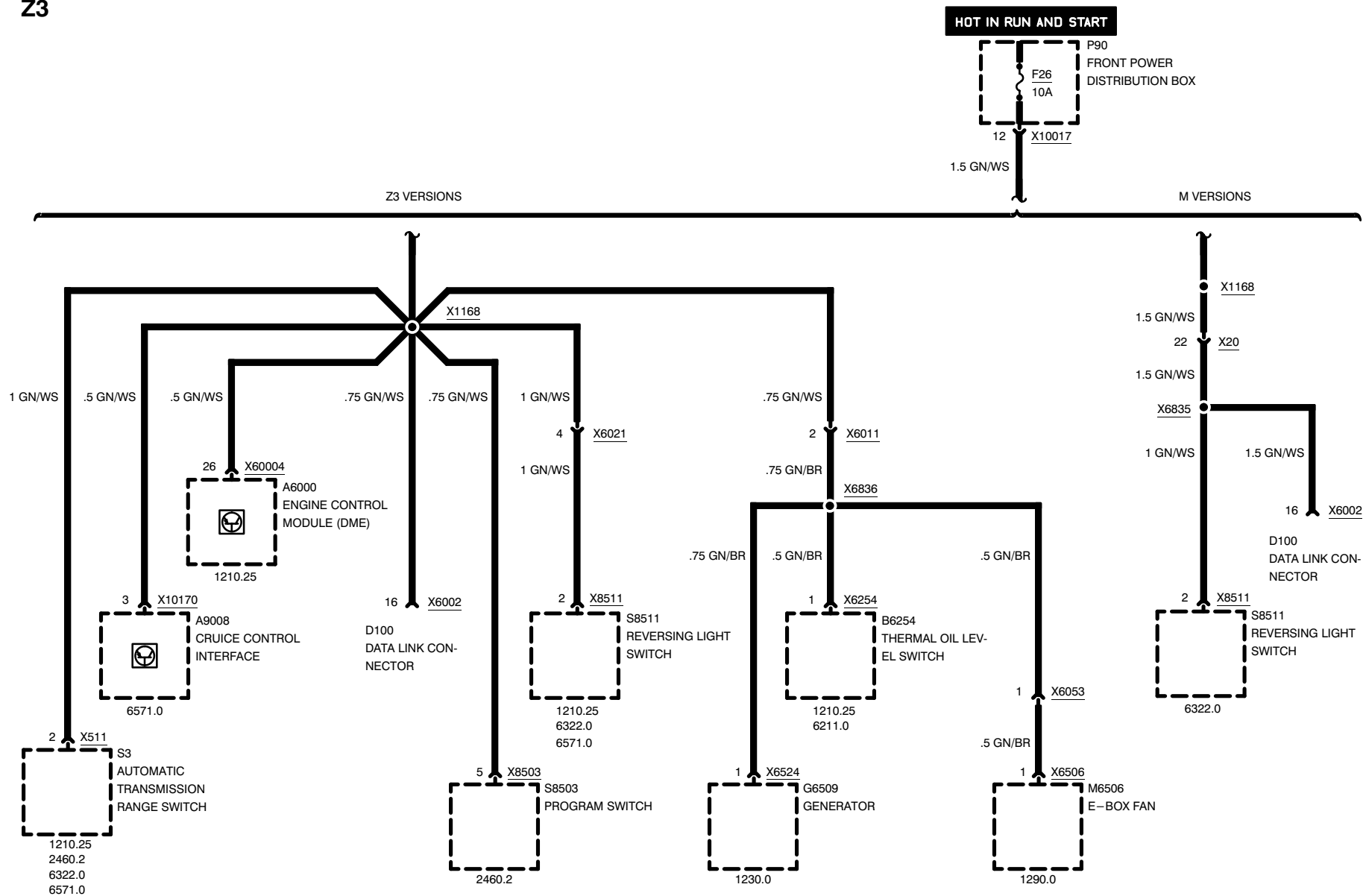
1999



FUSE DETAILS

FUSE 26

Z3



09/98

0670.3-08

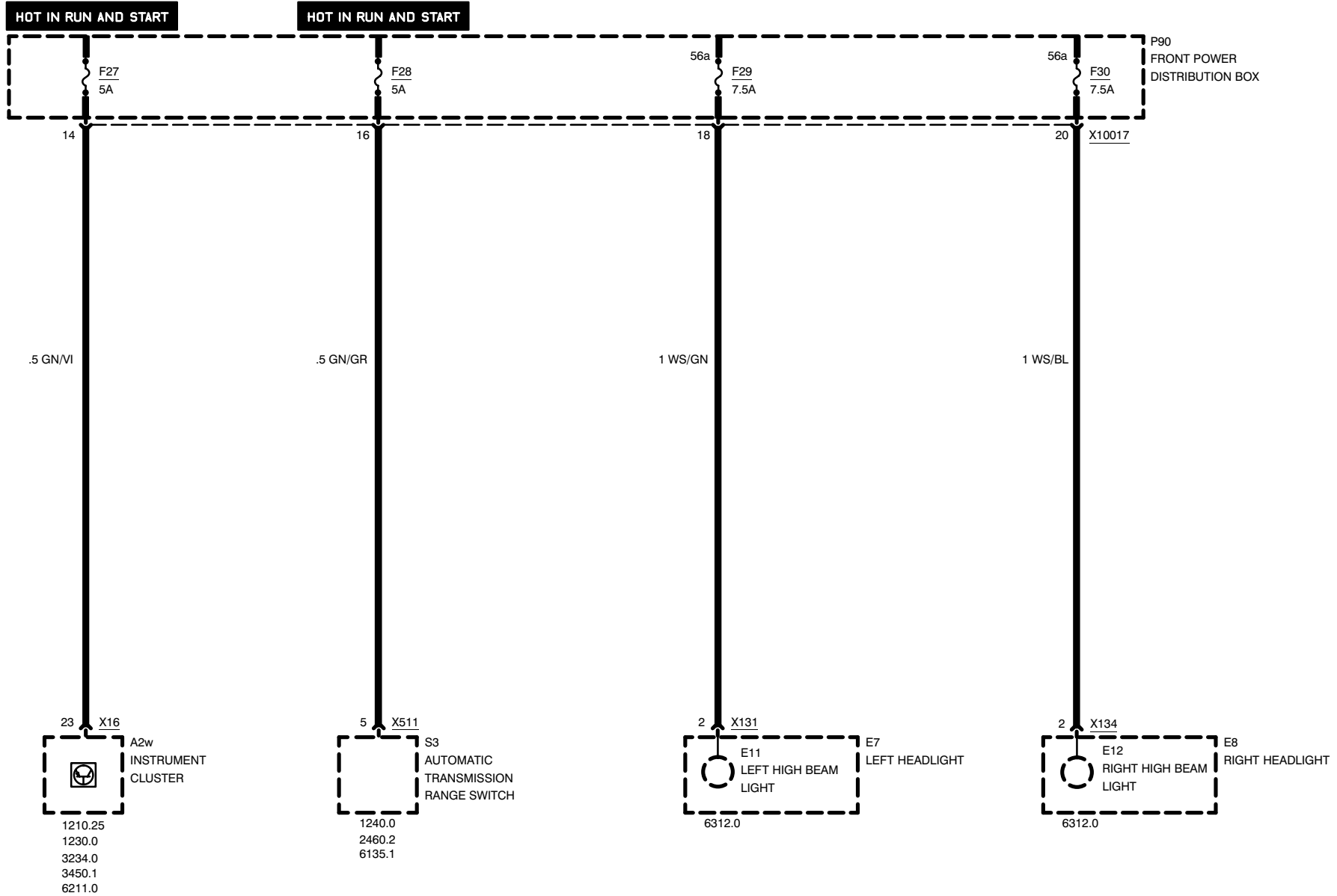
1999



FUSE DETAILS

FUSES 27, 28, 29, AND 30

Z3



09/98

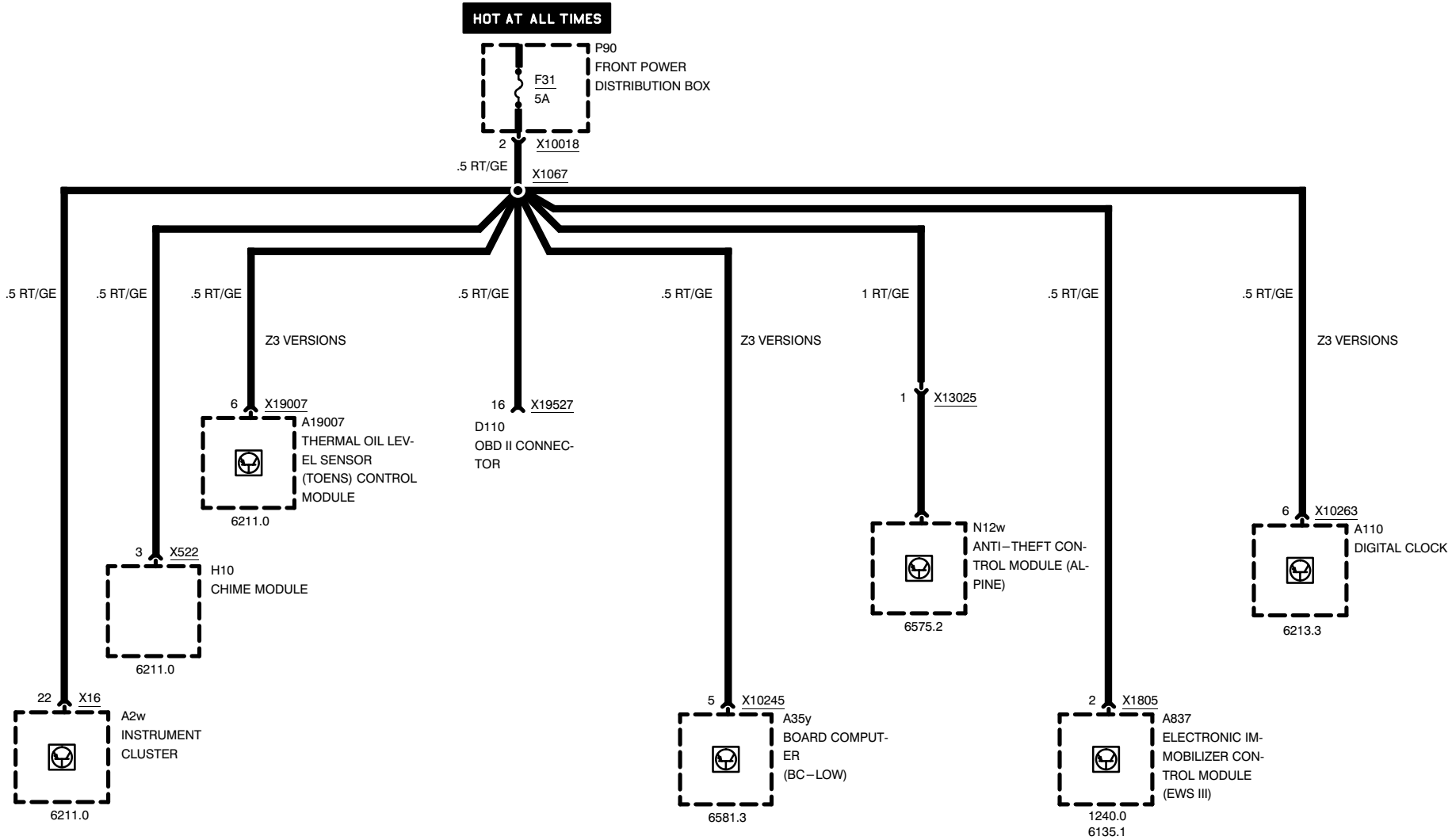
0670.3-09

1999



FUSE DETAILS

FUSE 31

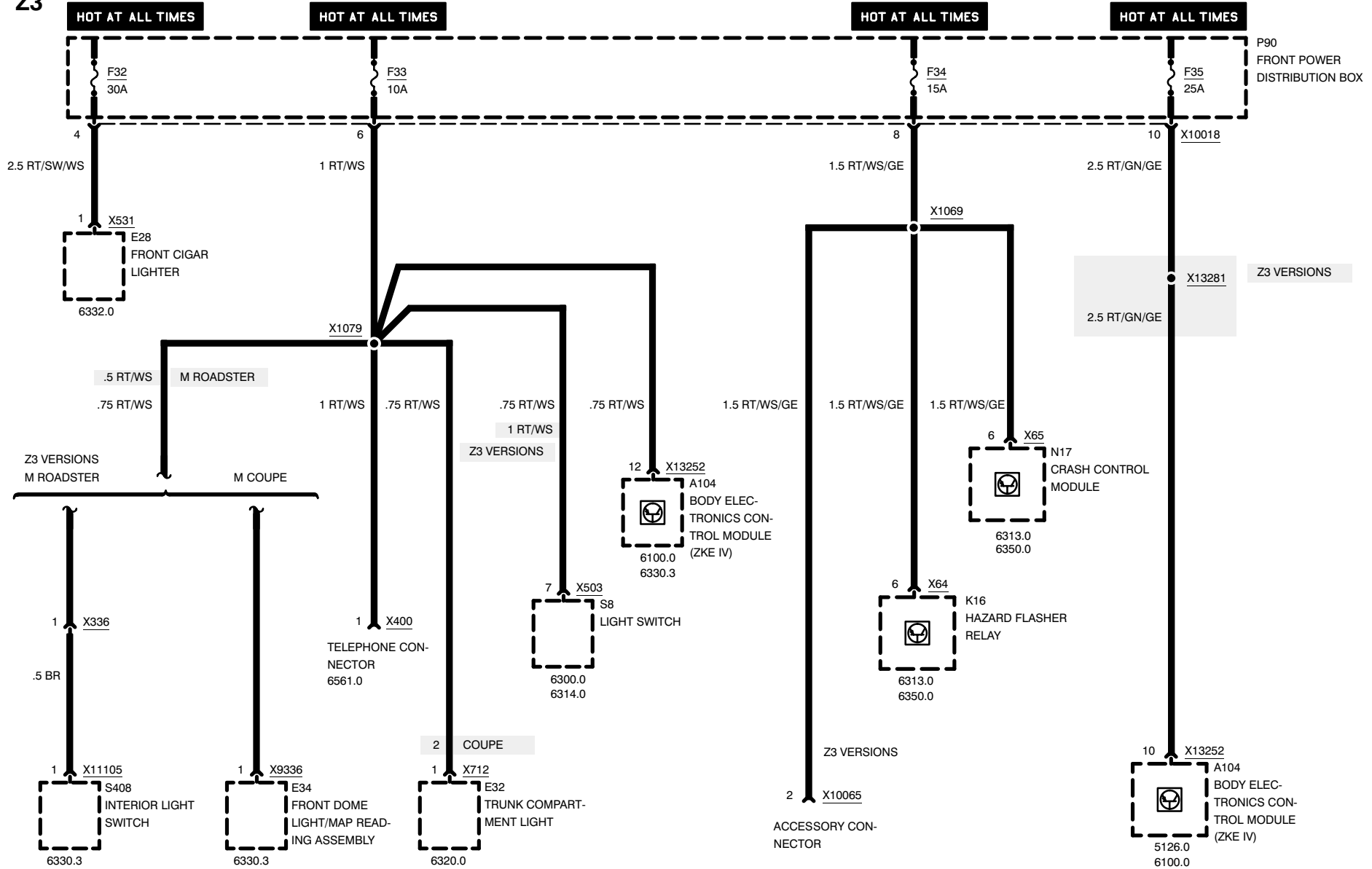




FUSE DETAILS

FUSES 32, 33, 34, AND 35

Z3

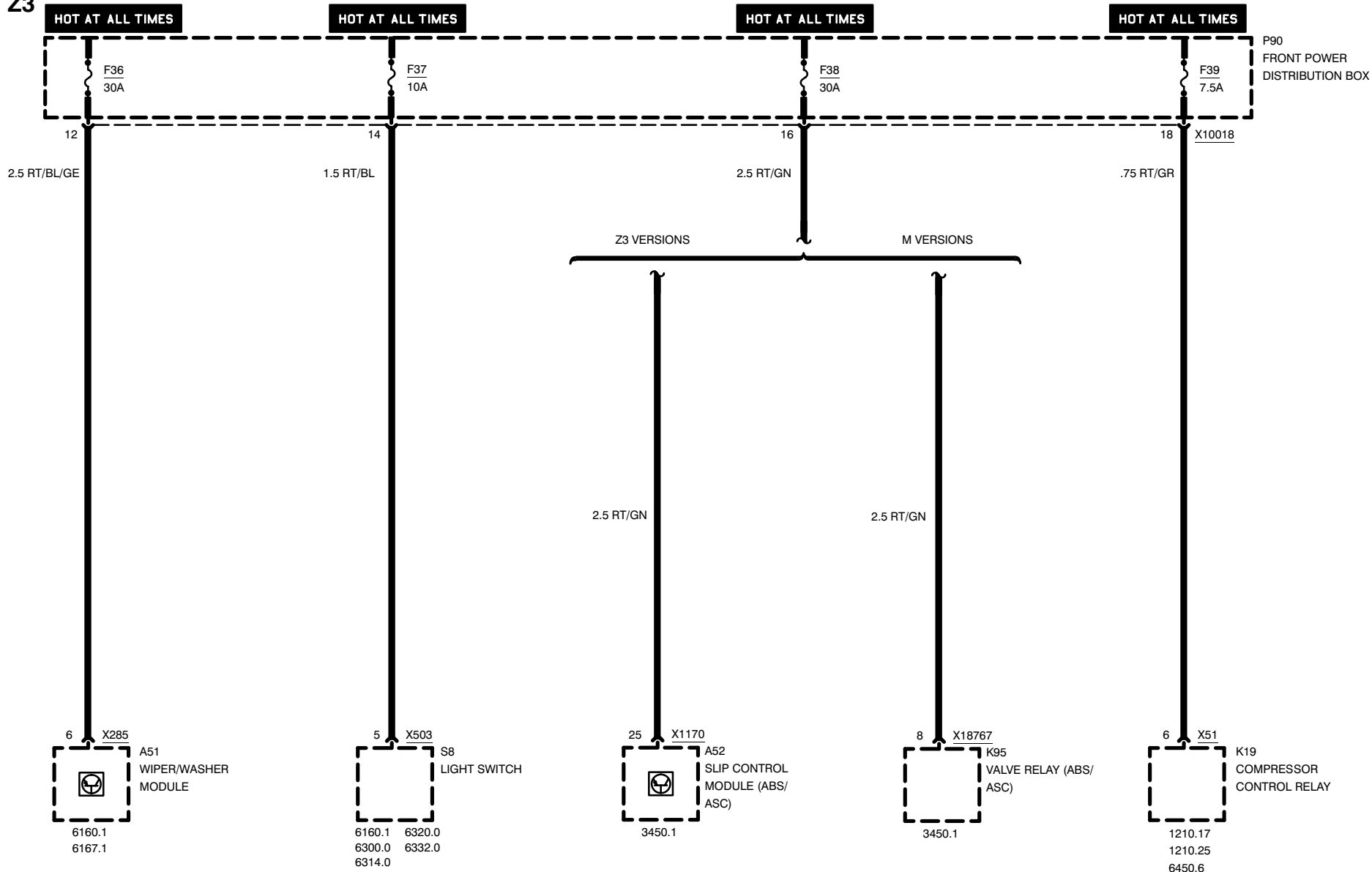




FUSE DETAILS

FUSES 36, 37, 38, AND 39

Z3



09/98

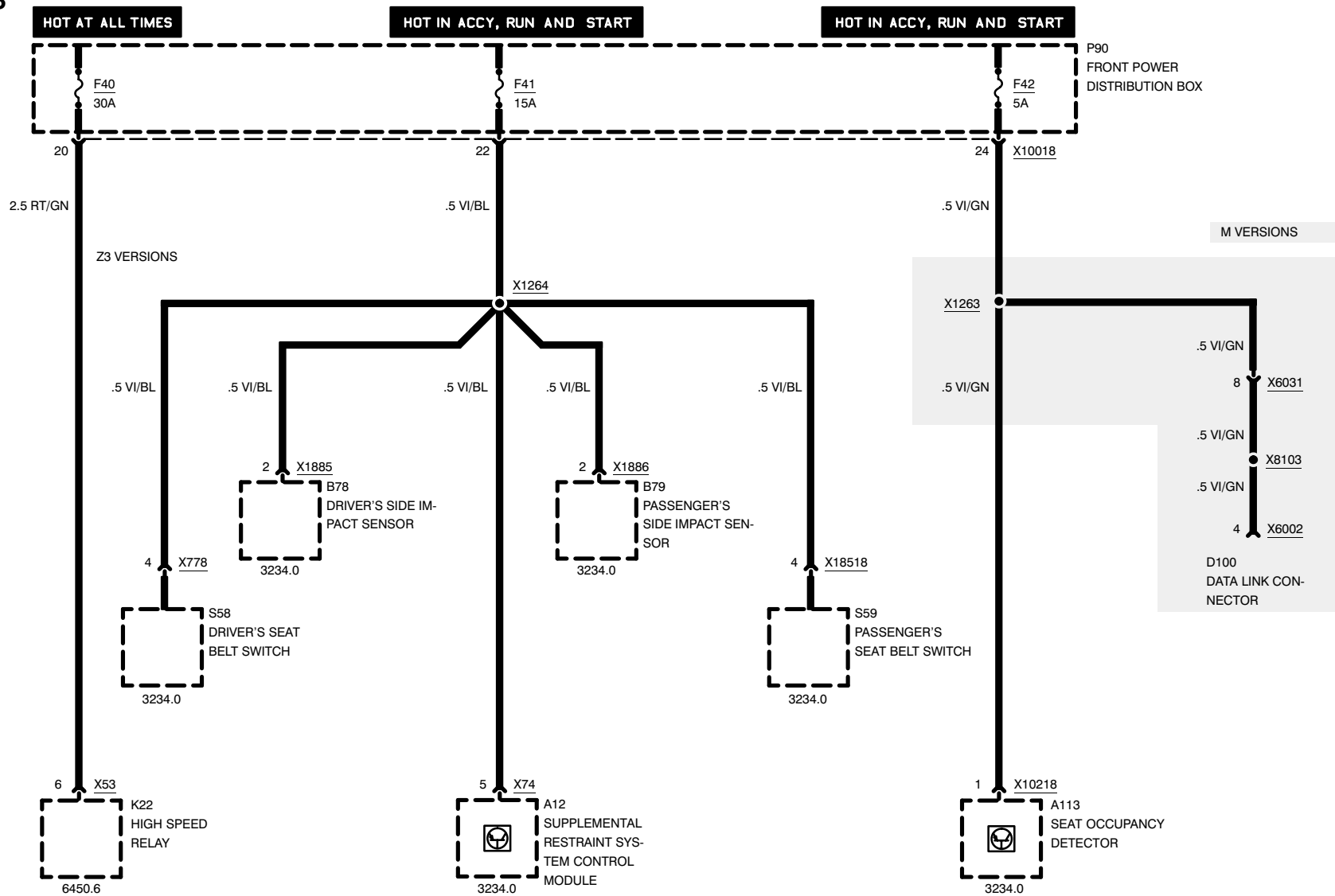
0670.3-12

1999



FUSE DETAILS

FUSES 40, 41, AND 42

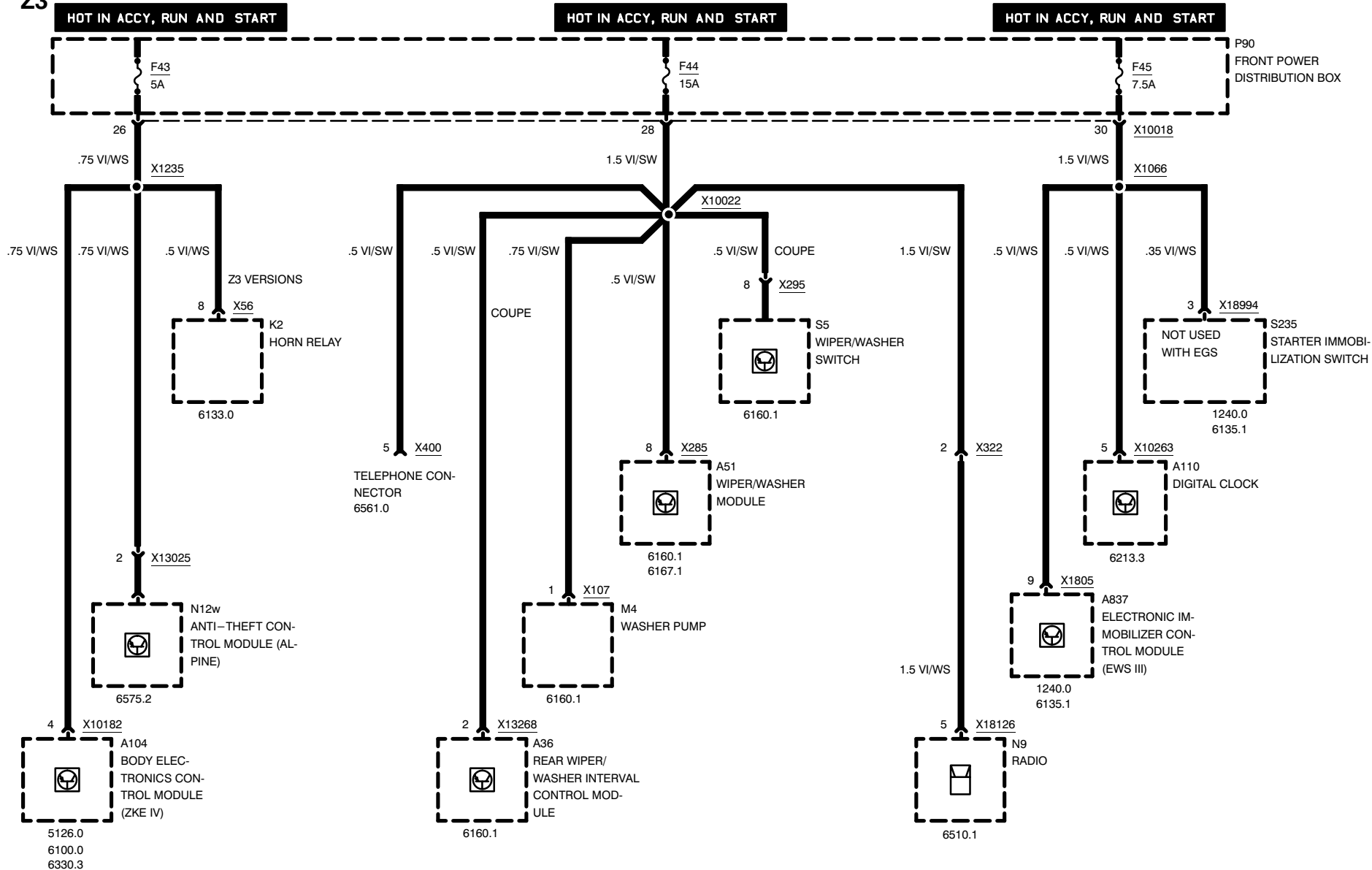




FUSE DETAILS

FUSES 43, 44, AND 45

Z3



09/98

0670.3-14

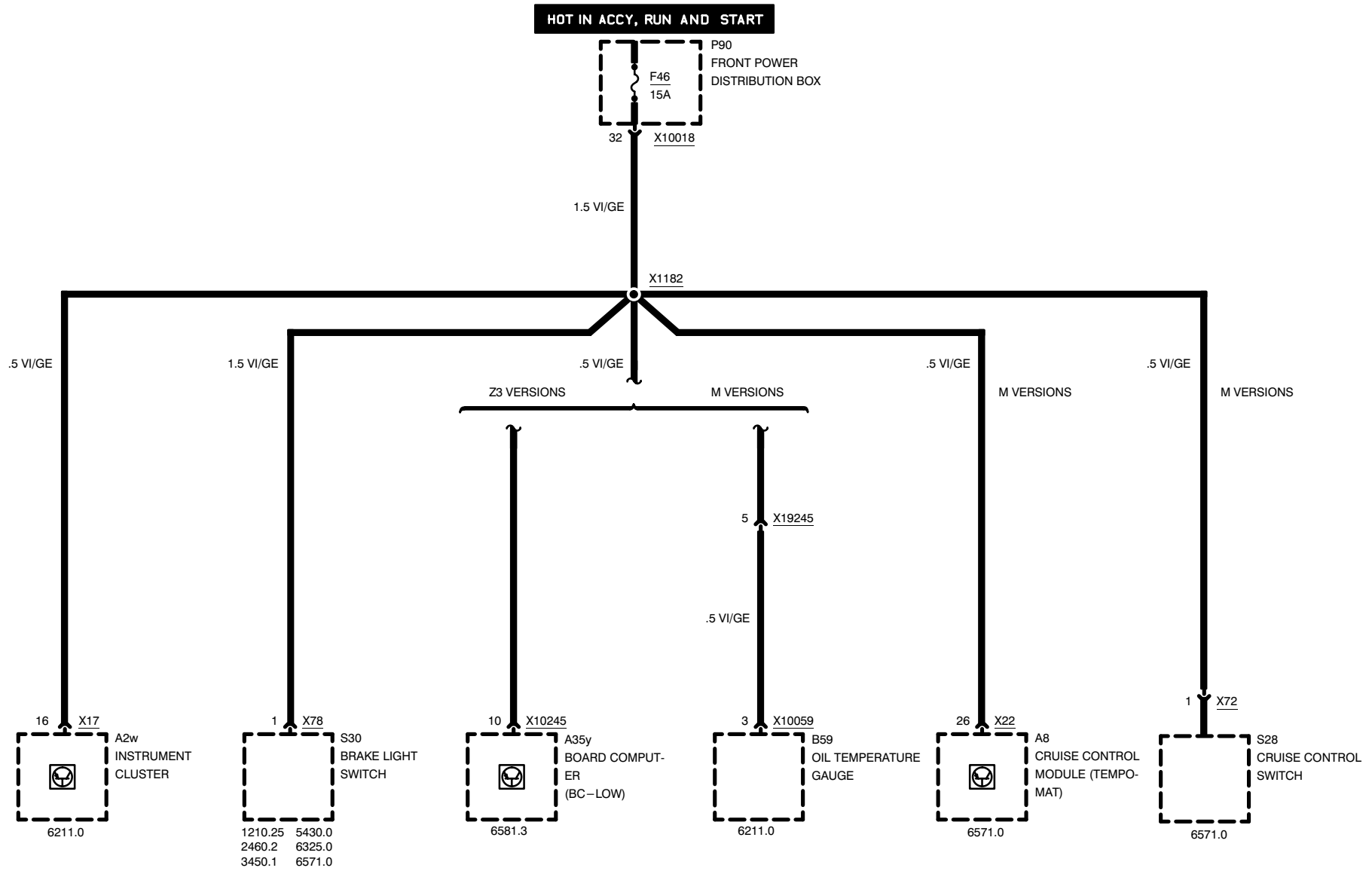
1999



FUSE DETAILS

FUSE 46

09/98



0670.3-15

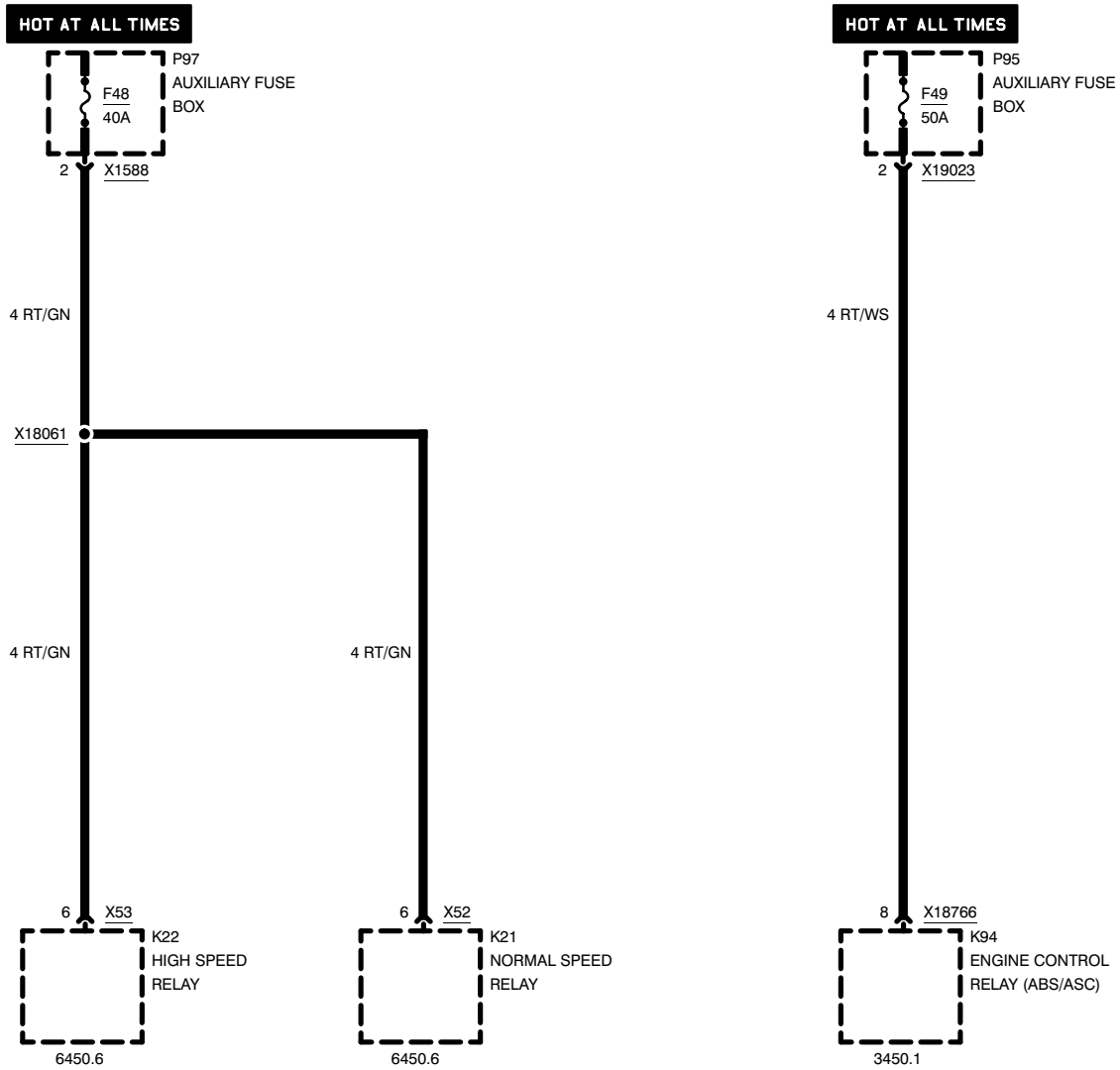
1999



FUSE DETAILS

FUSES 48 AND 49

M VERSIONS



09/98

0670.3-16

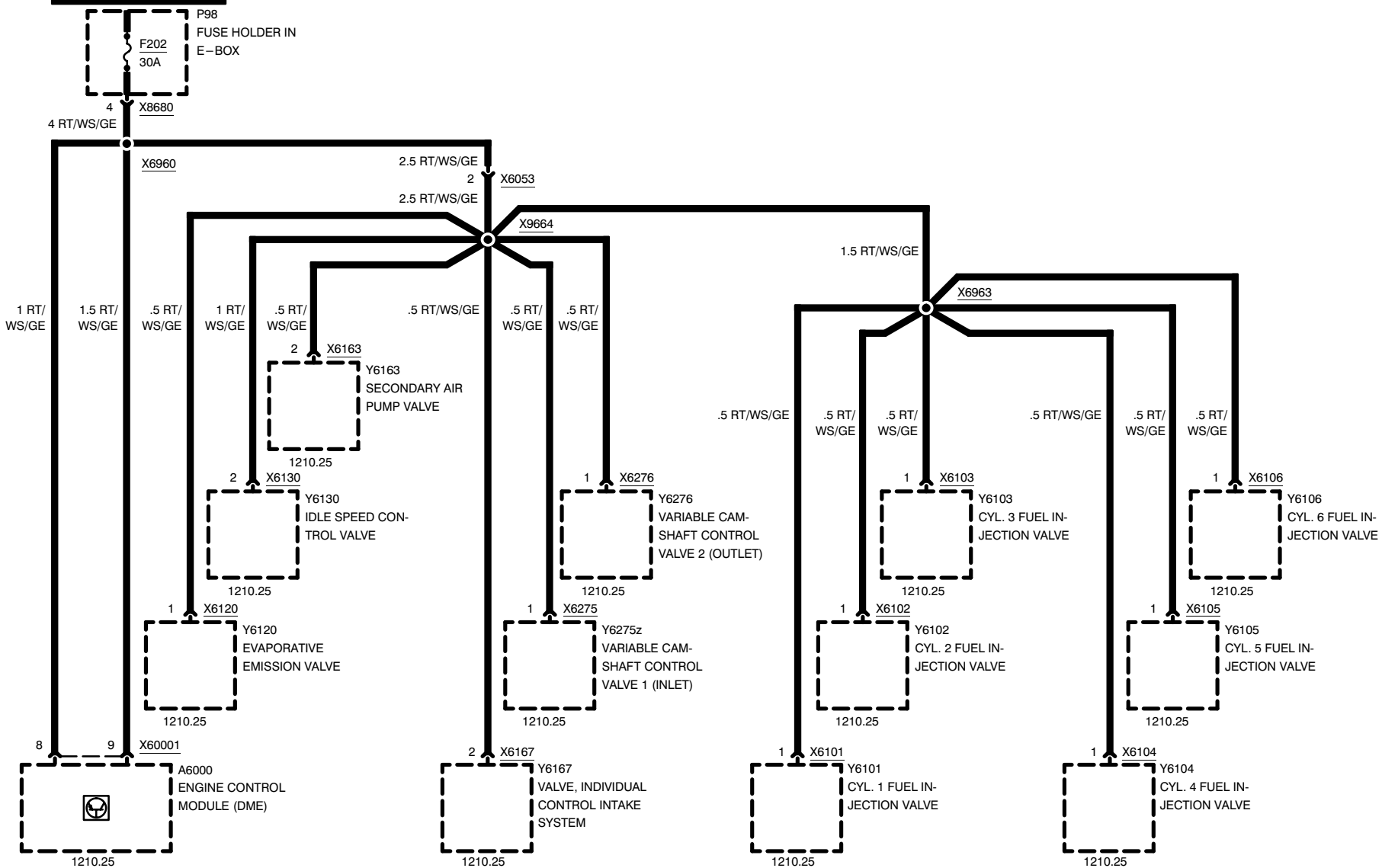
1999



FUSE DETAILS

FUSE 202

HOT IN RUN AND START

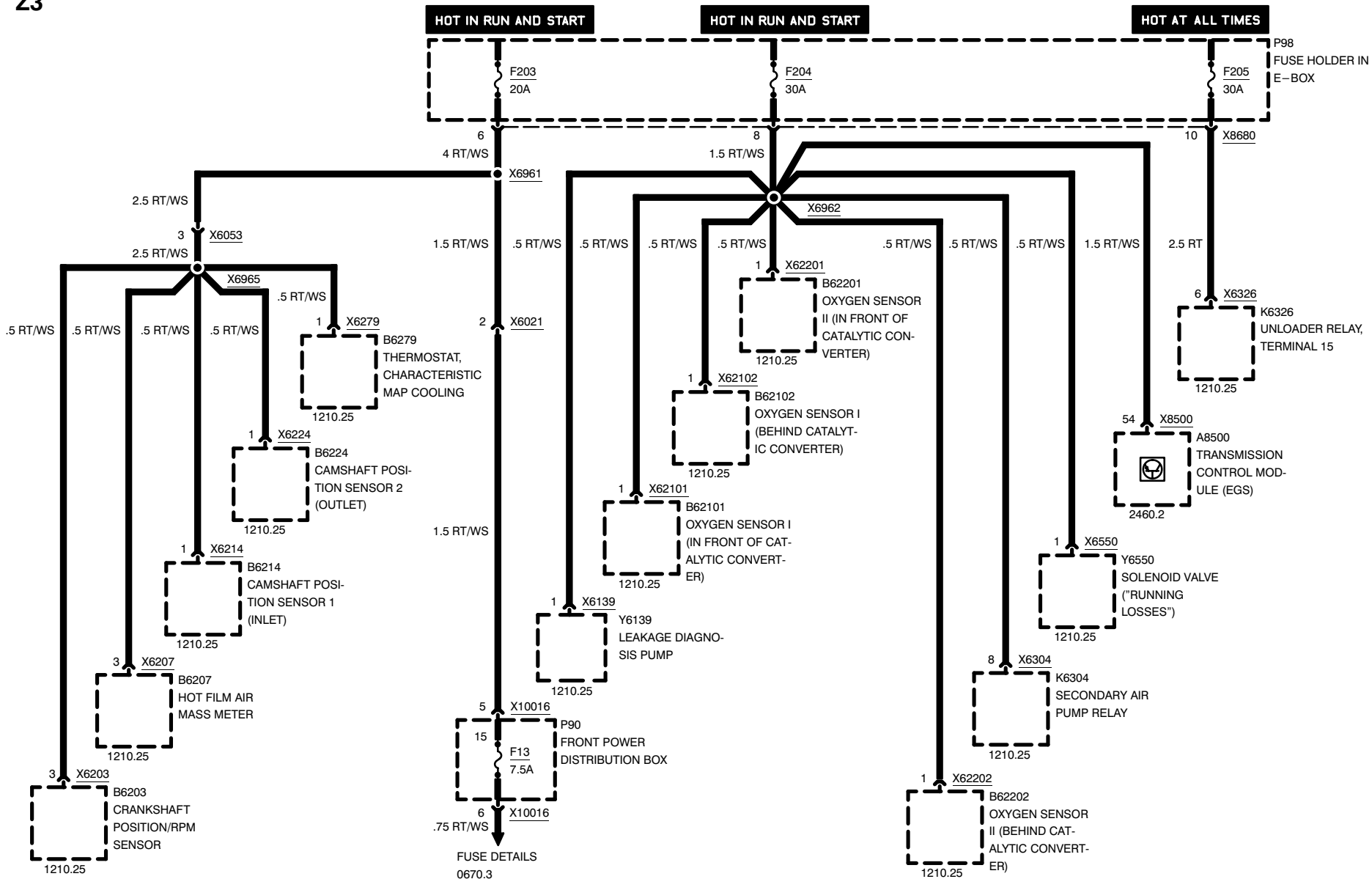




FUSE DETAILS

FUSES 203, 204, AND 205

Z3



09/98

0670.3-18

1999

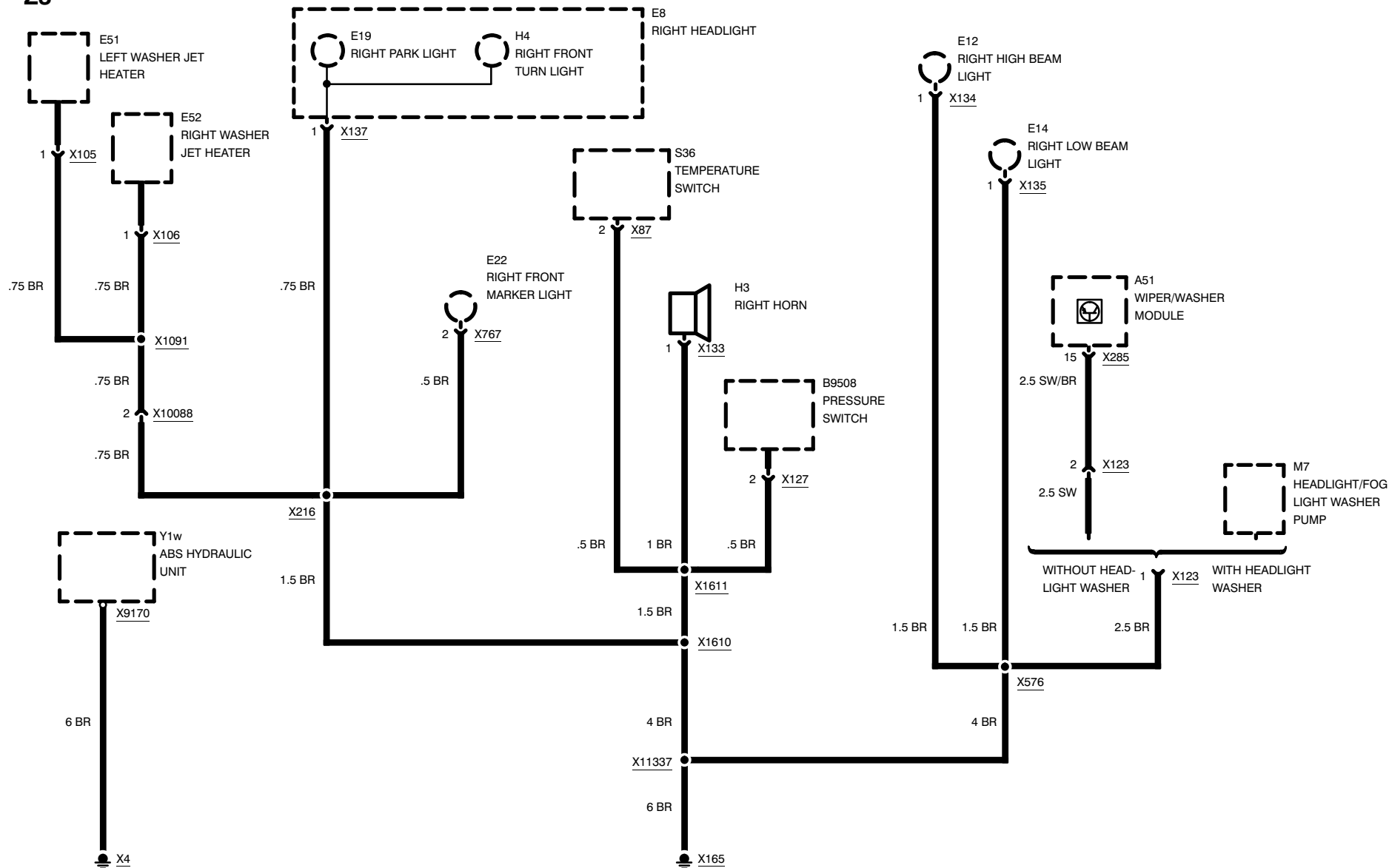


GROUND DISTRIBUTION

M VERSIONS

GROUNDS X4 AND X165

Z3



09/98

0670.4-00

1999

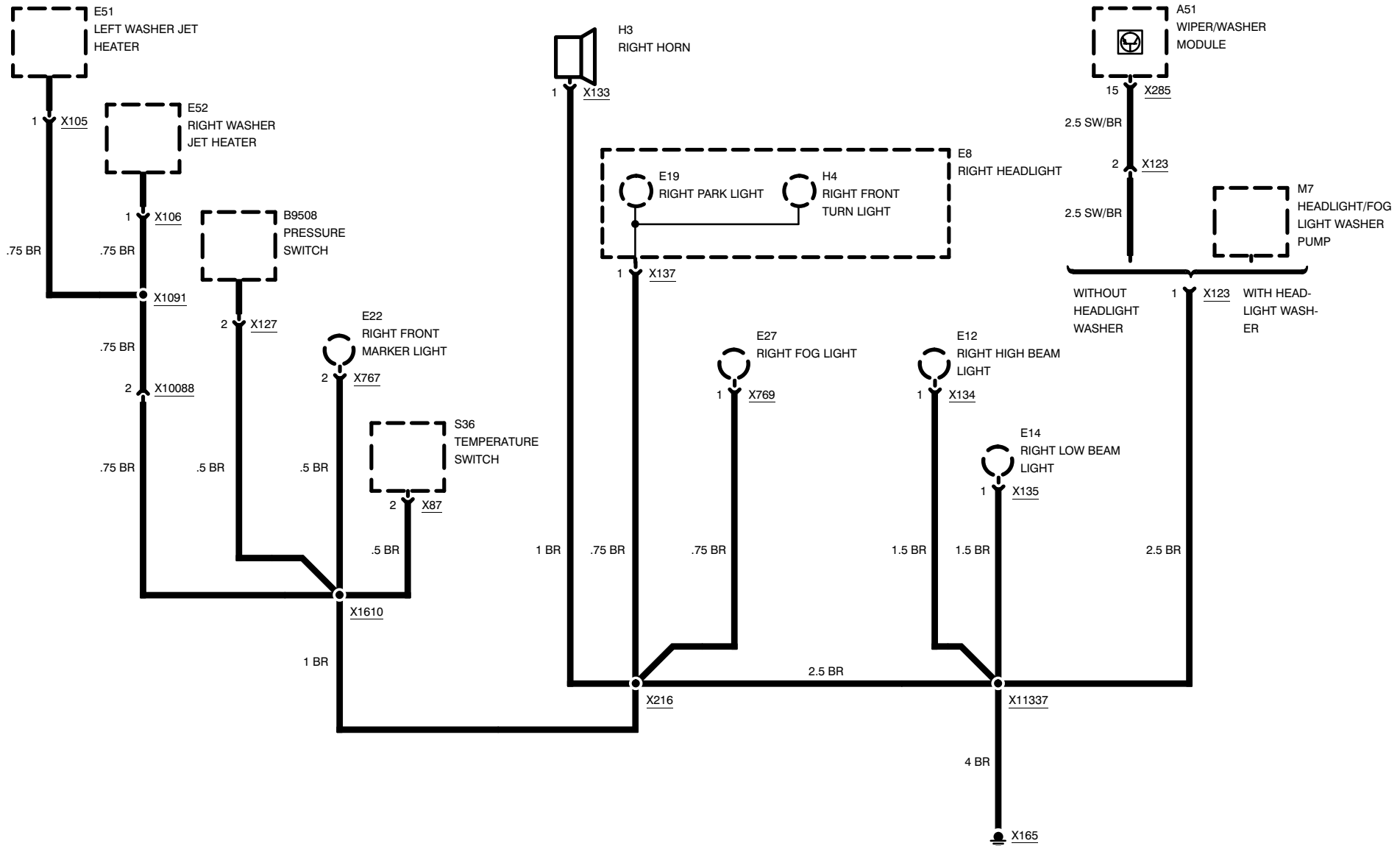


GROUND DISTRIBUTION

GROUND X165

Z3

Z3 VERSIONS



09/98

0670.4-01

1999

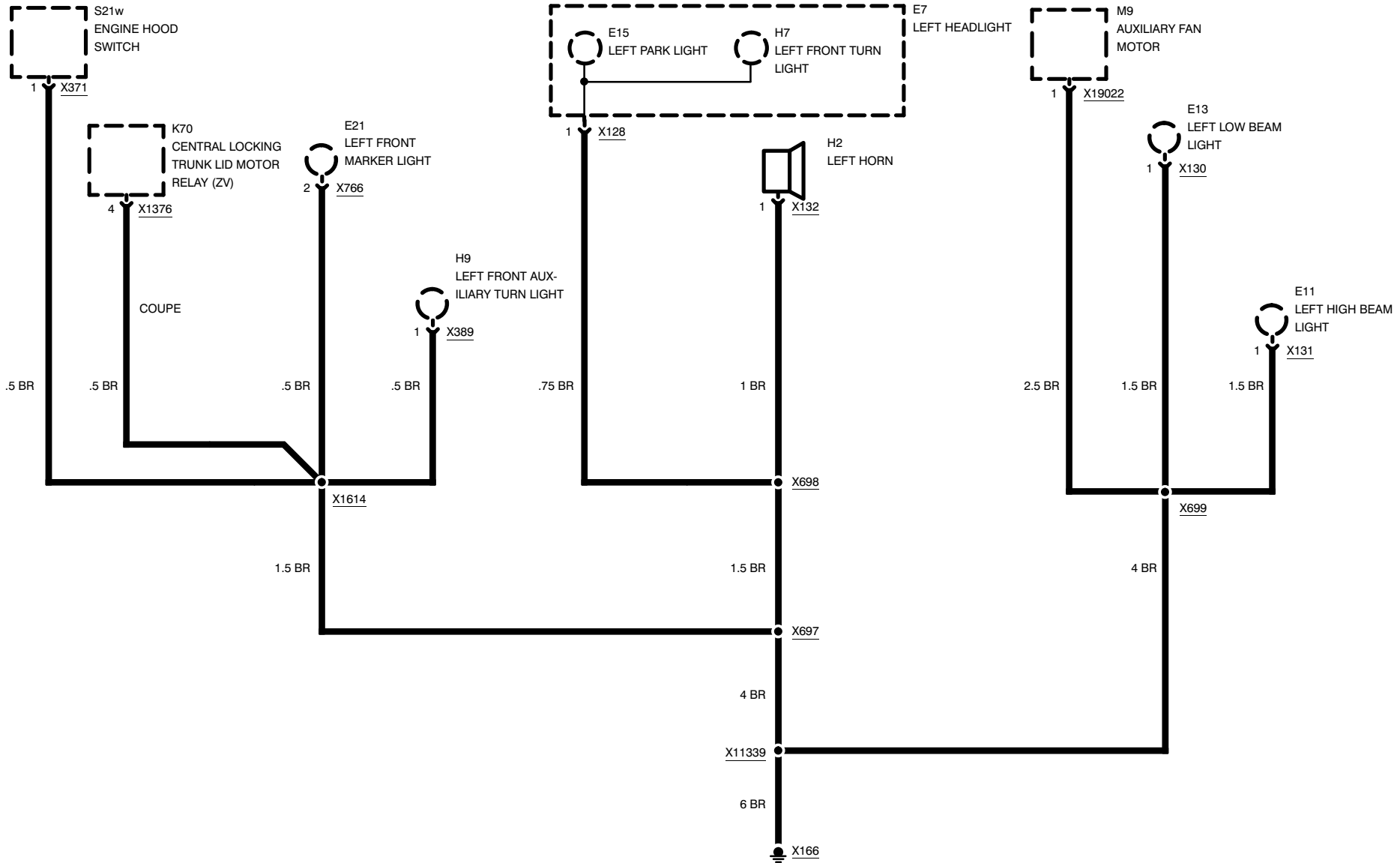


GROUND DISTRIBUTION

M VERSIONS

GROUND X166

Z3



09/98

0670.4-02

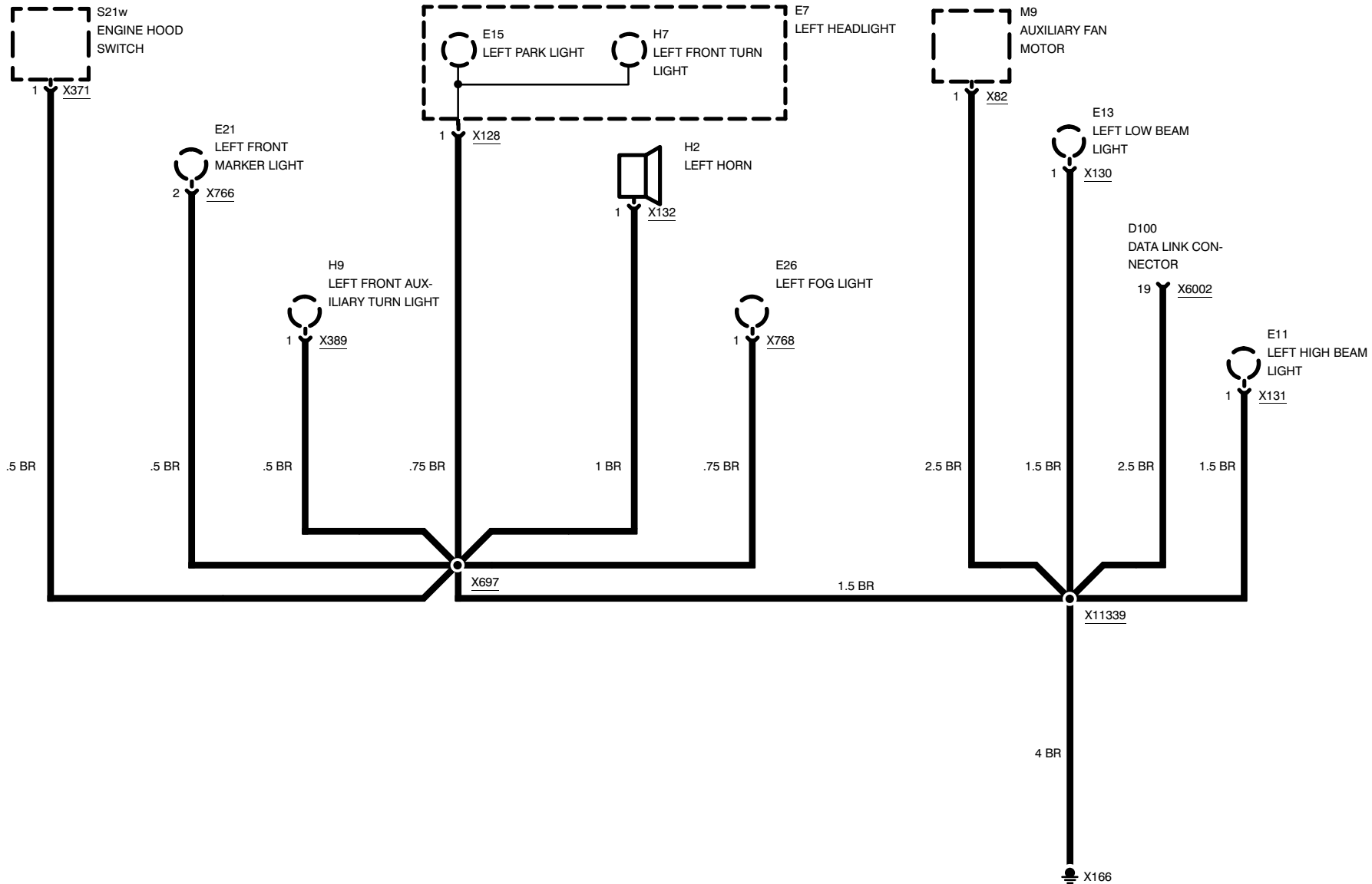
1999



GROUND DISTRIBUTION

GROUND X166

Z3 VERSIONS



09/98

0670.4-03

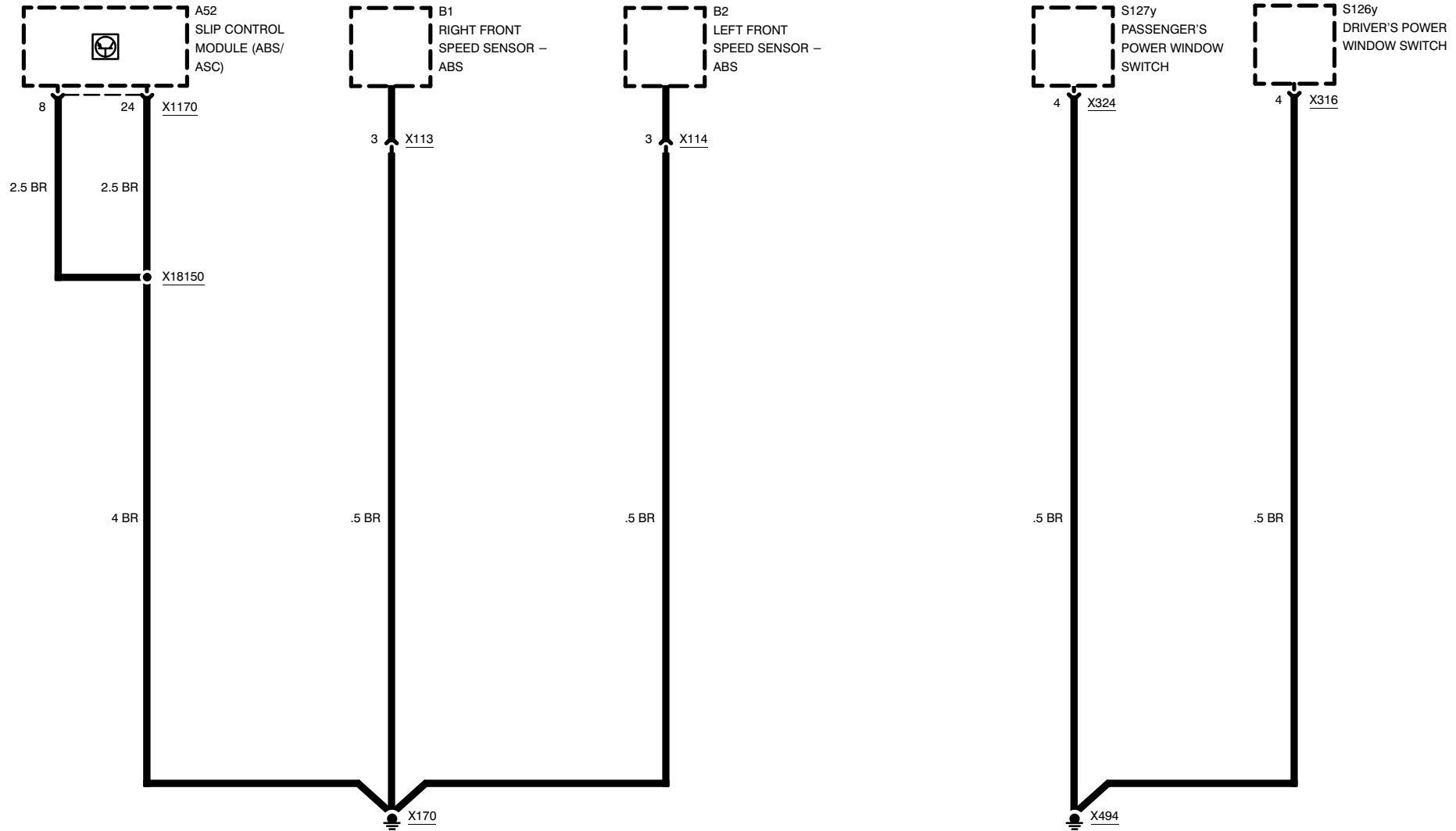
1999



GROUND DISTRIBUTION

GROUNDS X170 AND X494

Z3 VERSIONS



09/98

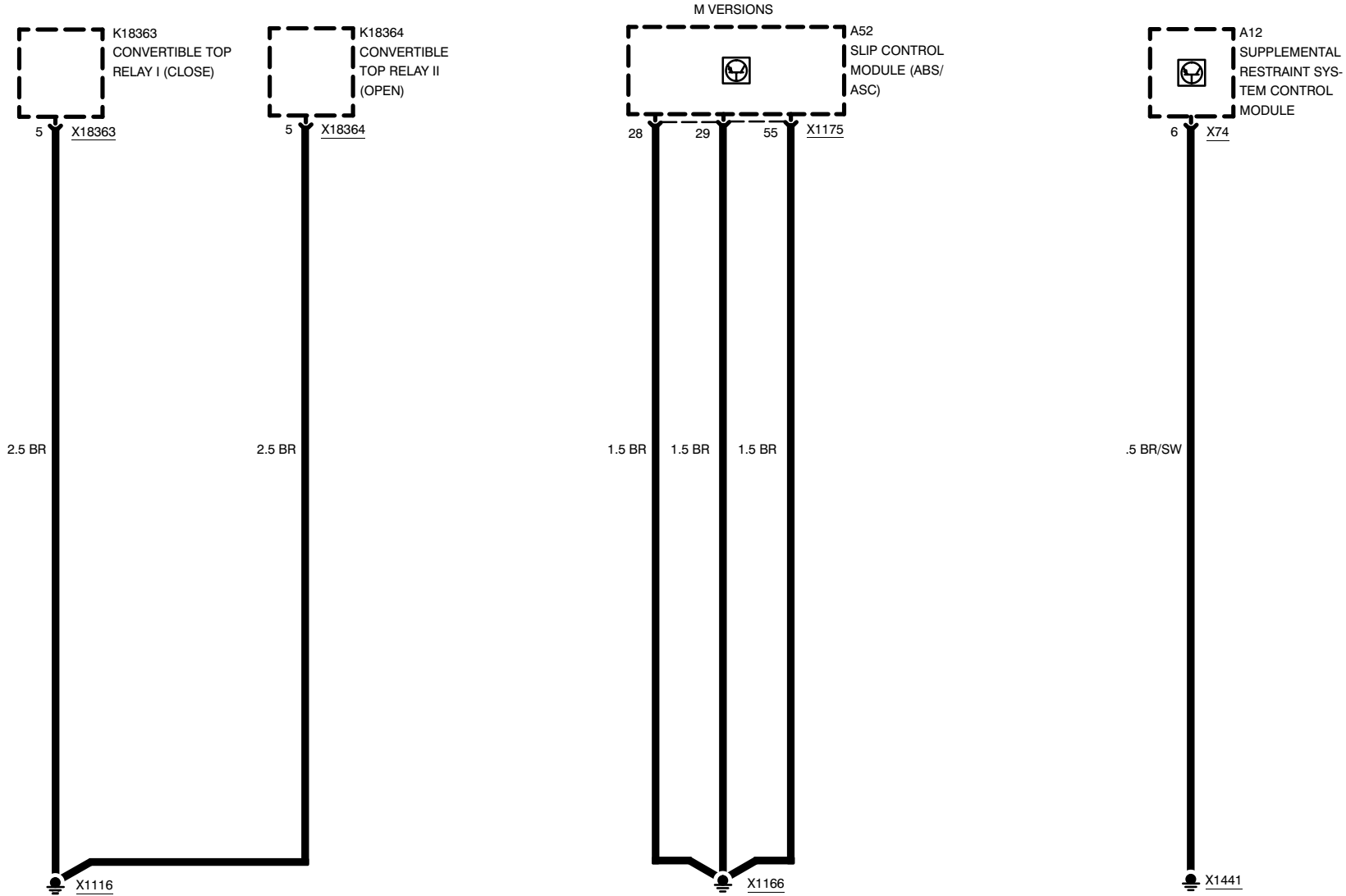
0670.4-04

1999



GROUND DISTRIBUTION

GROUNDS X1116, X1166, AND X1441



09/98

0670.4-05

1999

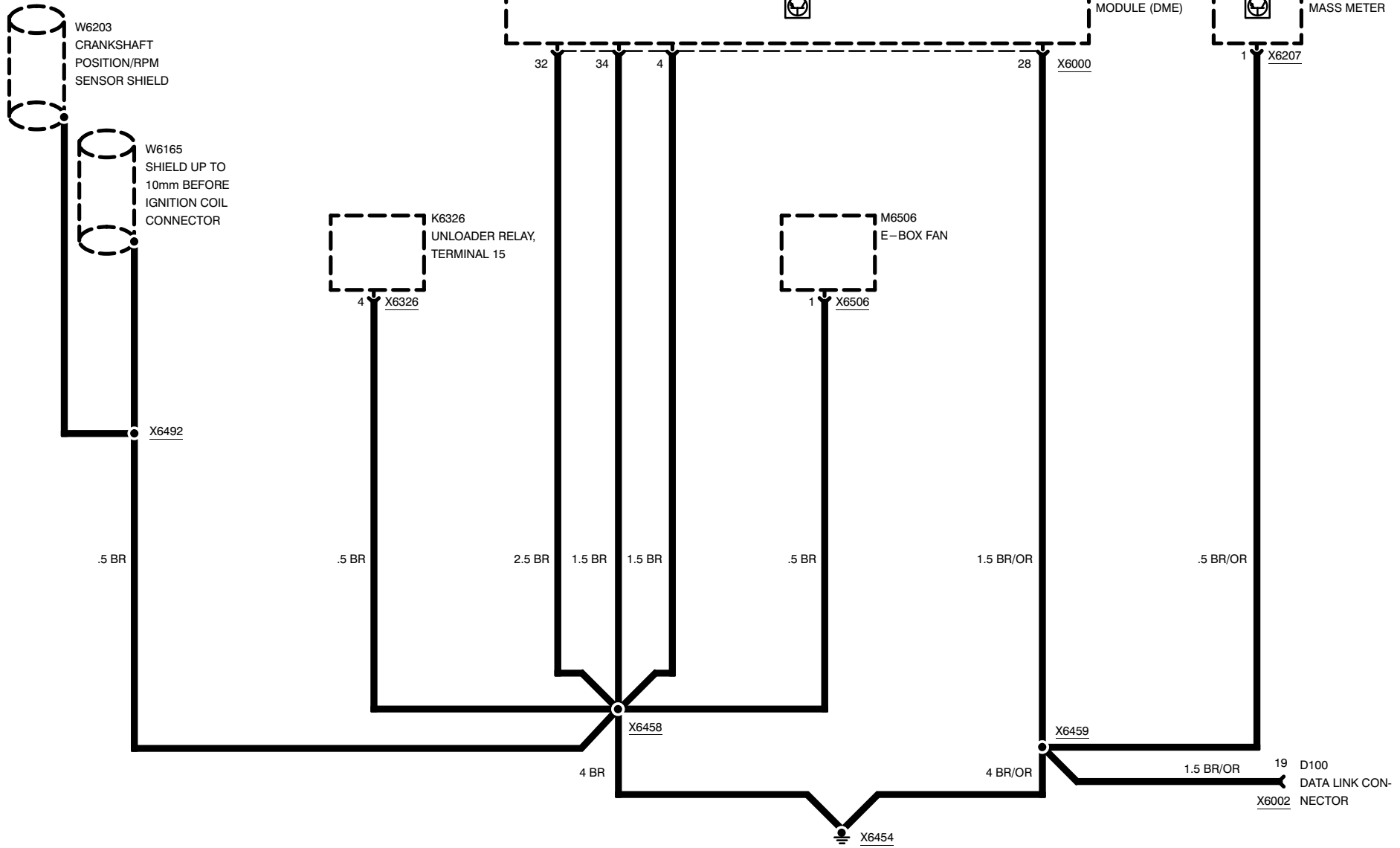


GROUND DISTRIBUTION

M VERSIONS

GROUND X6454

Z3



09/98

0670.4-06

1999

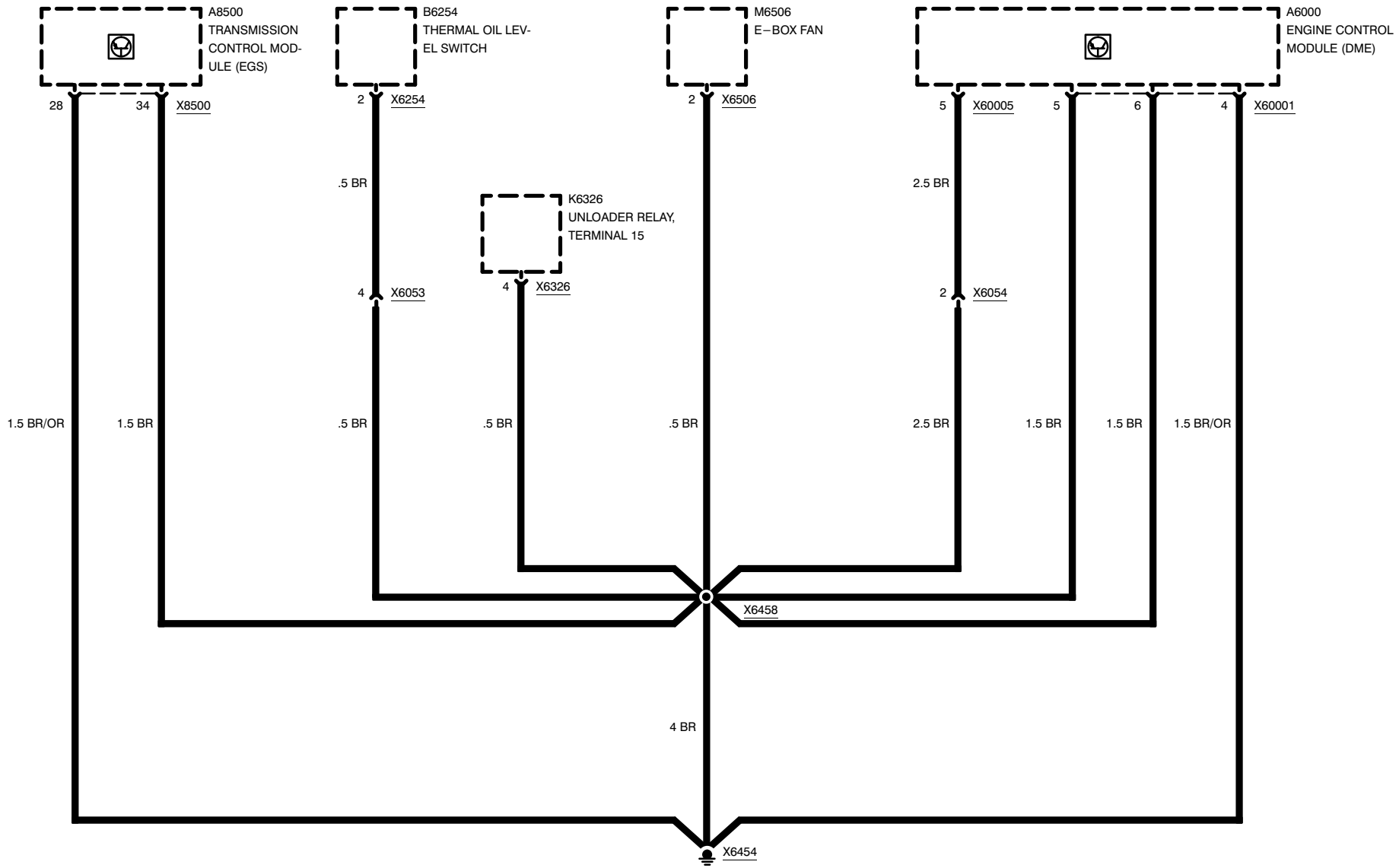


GROUND DISTRIBUTION

Z3 VERSIONS

GROUND X6454

Z3



09/98

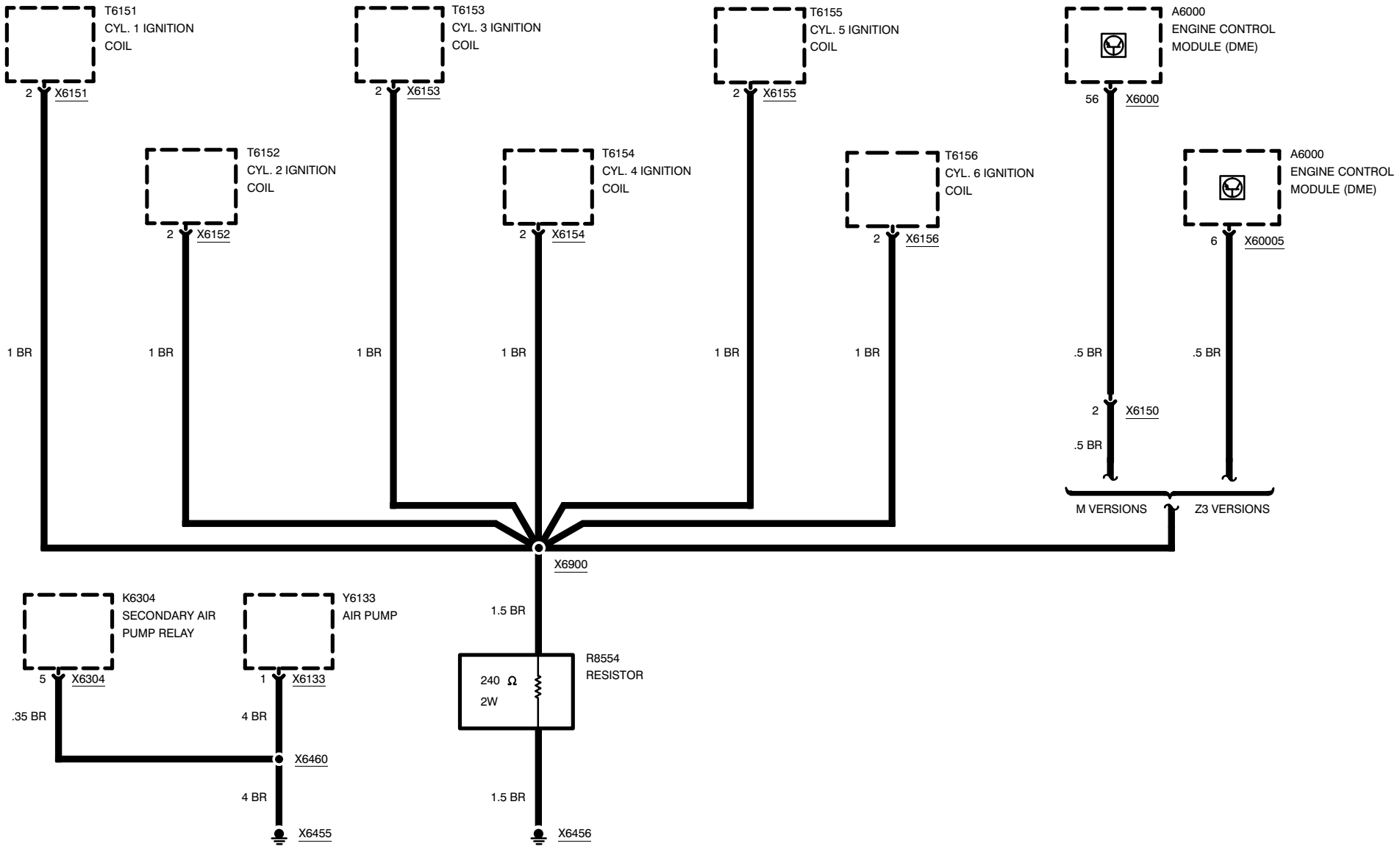
0670.4-07

1999



GROUND DISTRIBUTION

GROUNDS X6455 AND X6456

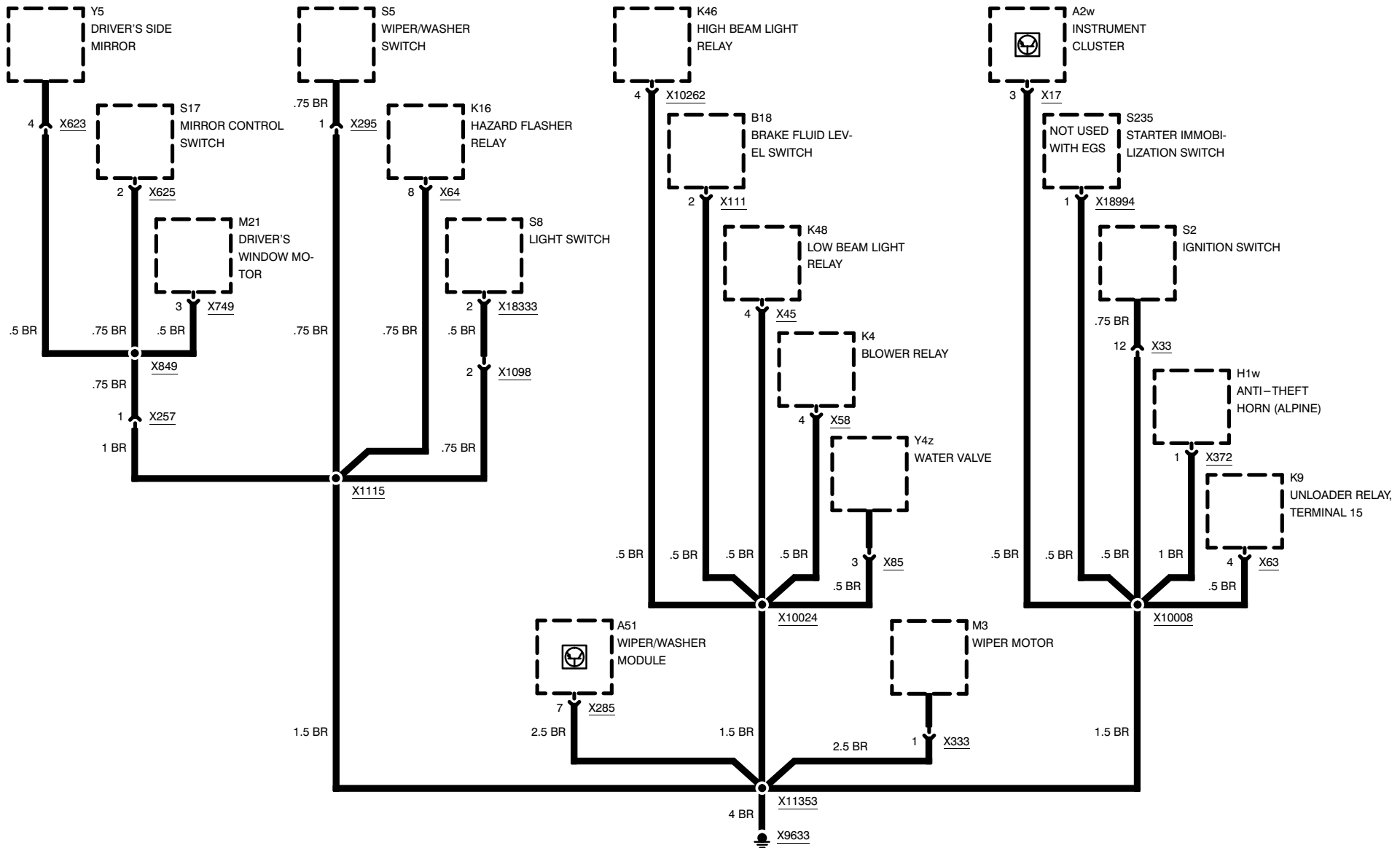




GROUND DISTRIBUTION

GROUND X9633

Z3 VERSIONS



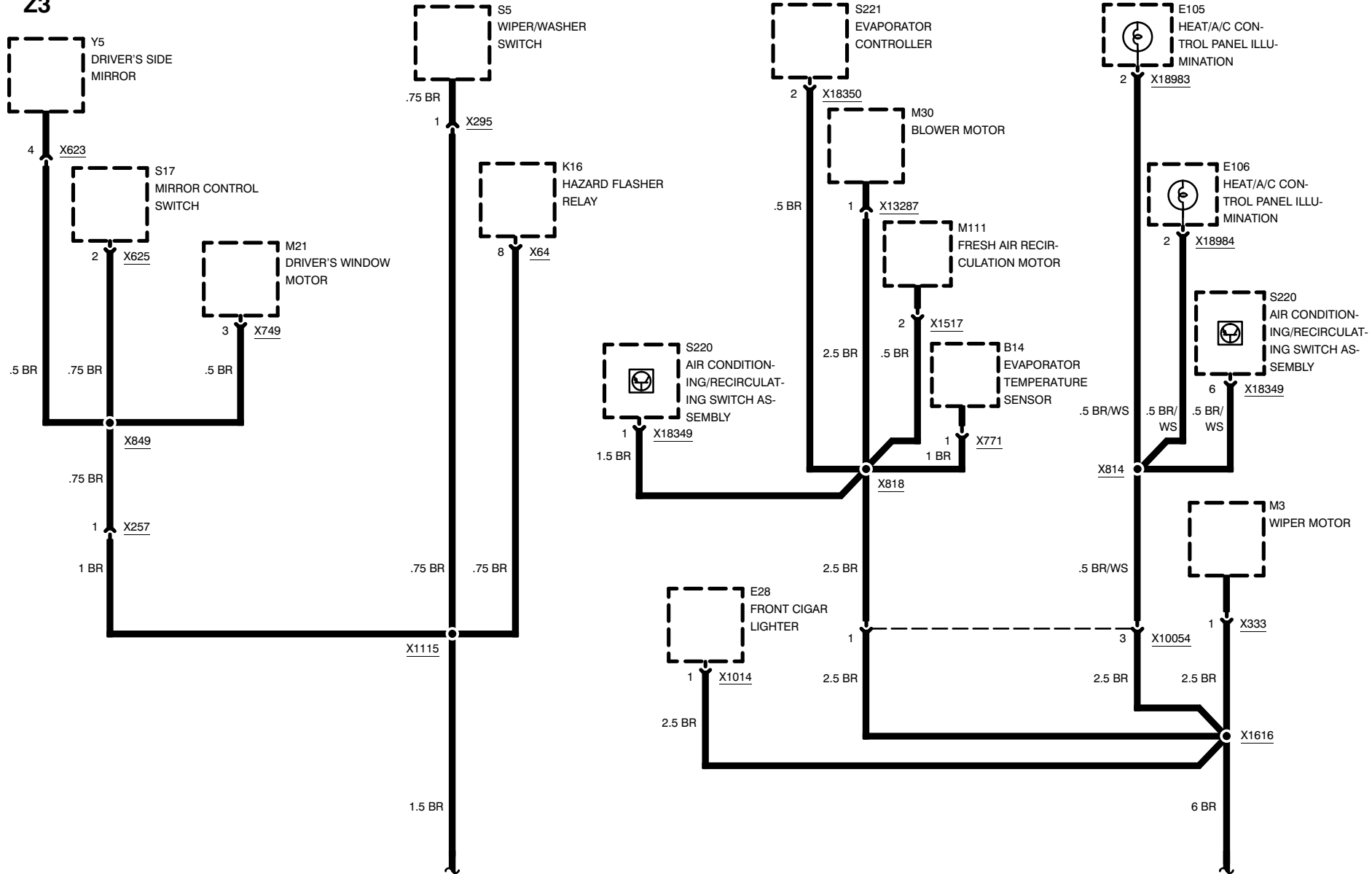


GROUND DISTRIBUTION

GROUND X9633

Z3

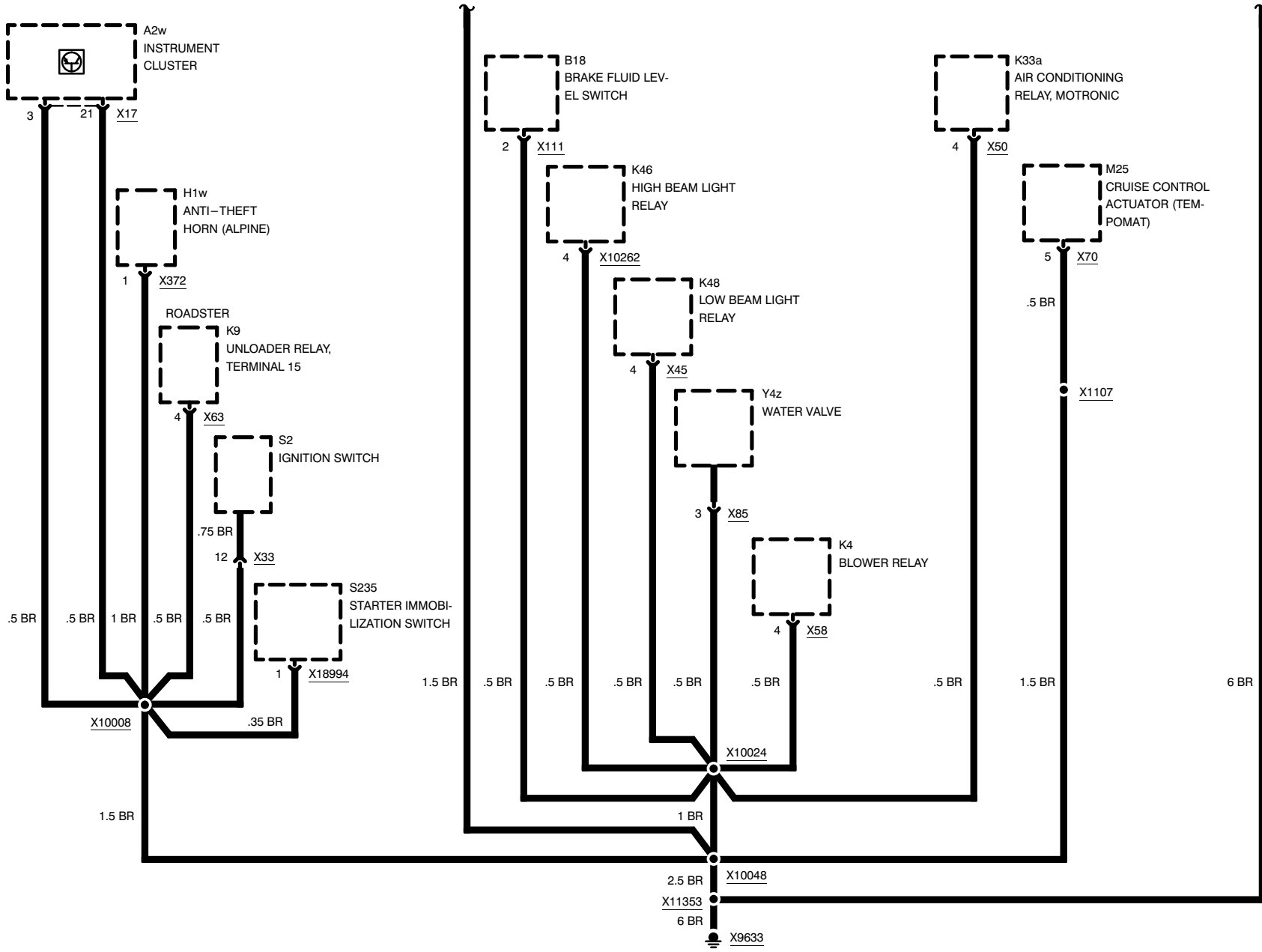
M VERSIONS



09/98

0670.4-10

1999

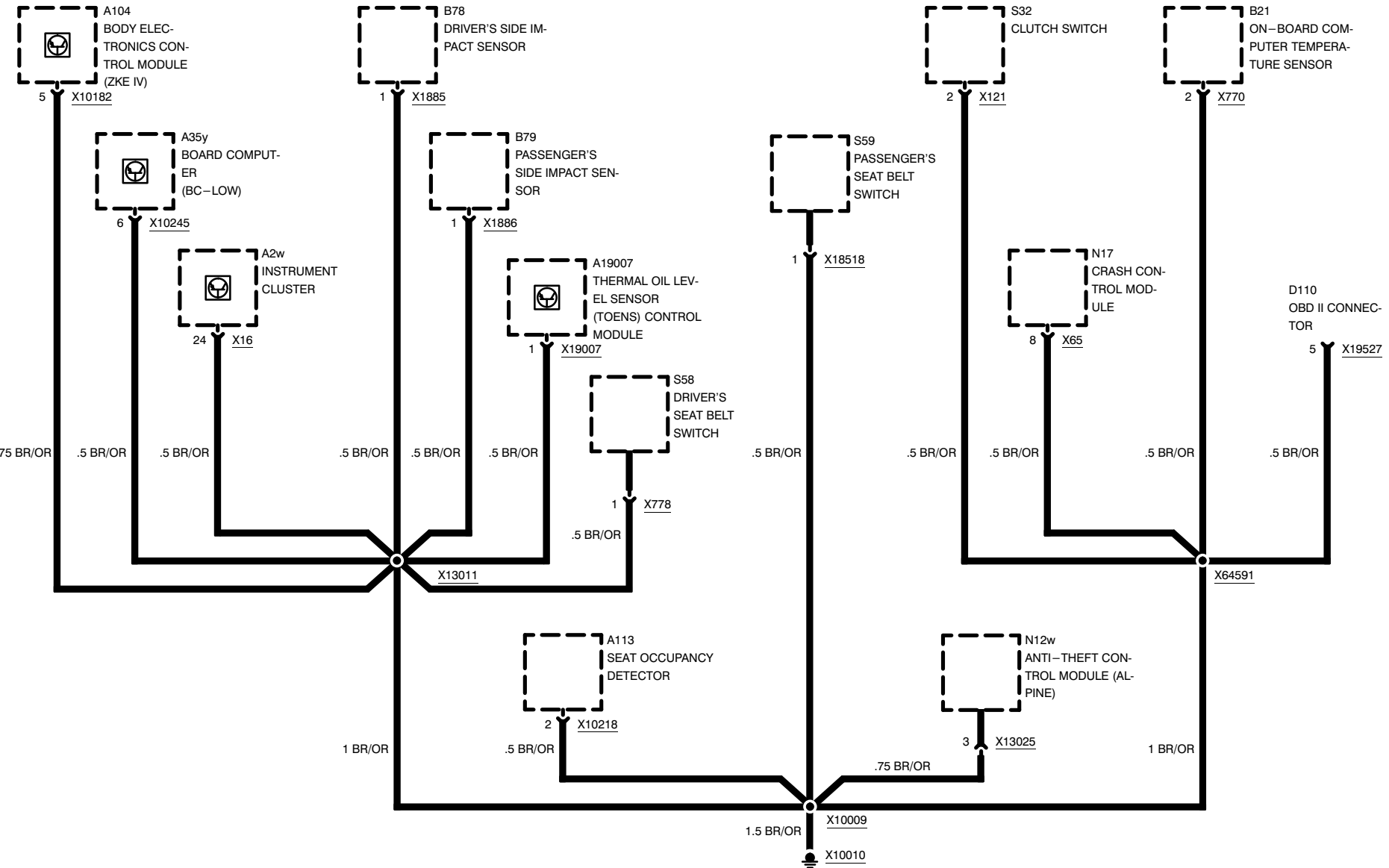




GROUND DISTRIBUTION

GROUND X10010

Z3 VERSIONS



09/98

0670.4-12

1999

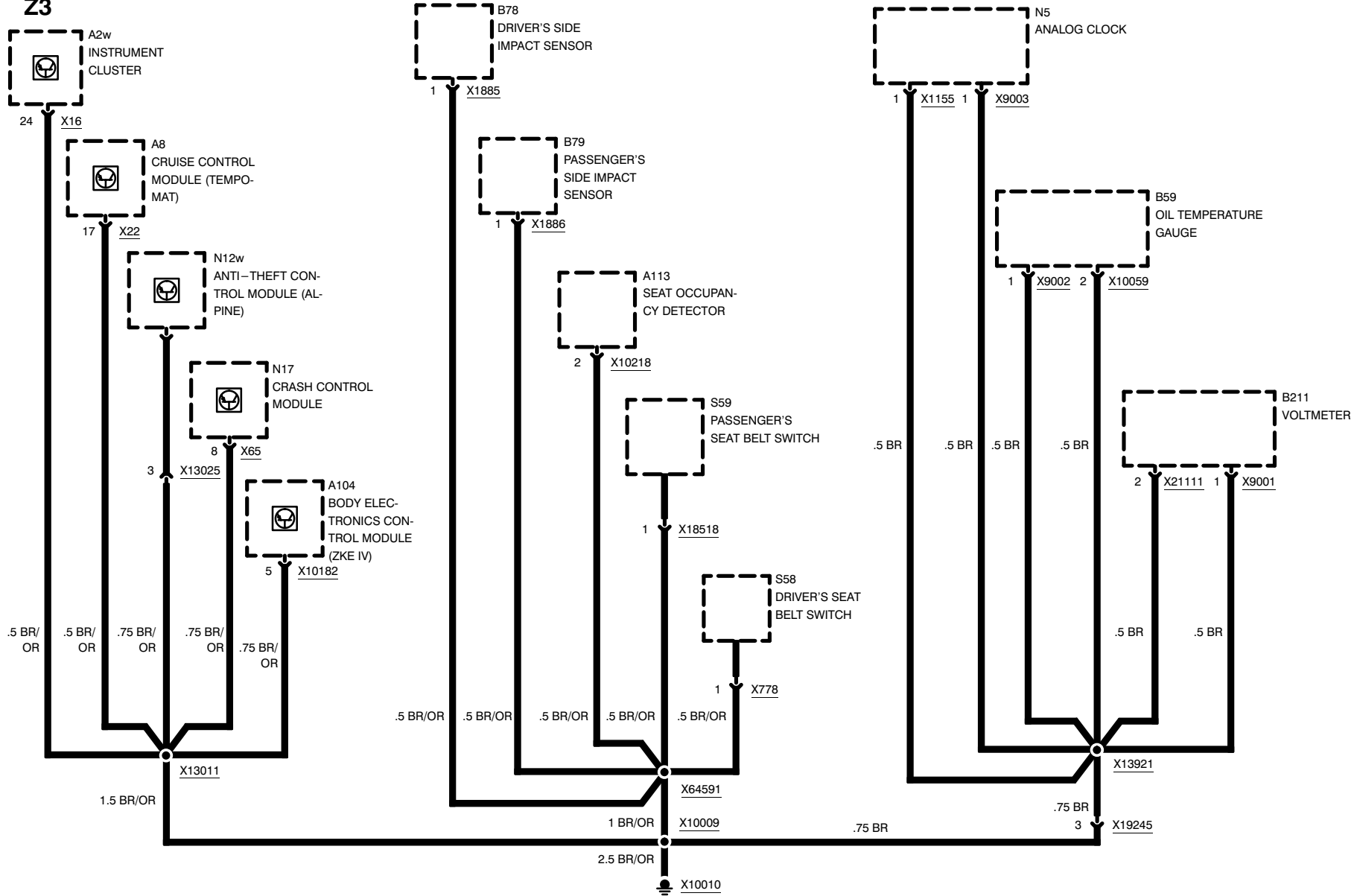


GROUND DISTRIBUTION

GROUND X10010

Z3

M VERSIONS



09/98

0670.4-13

1999

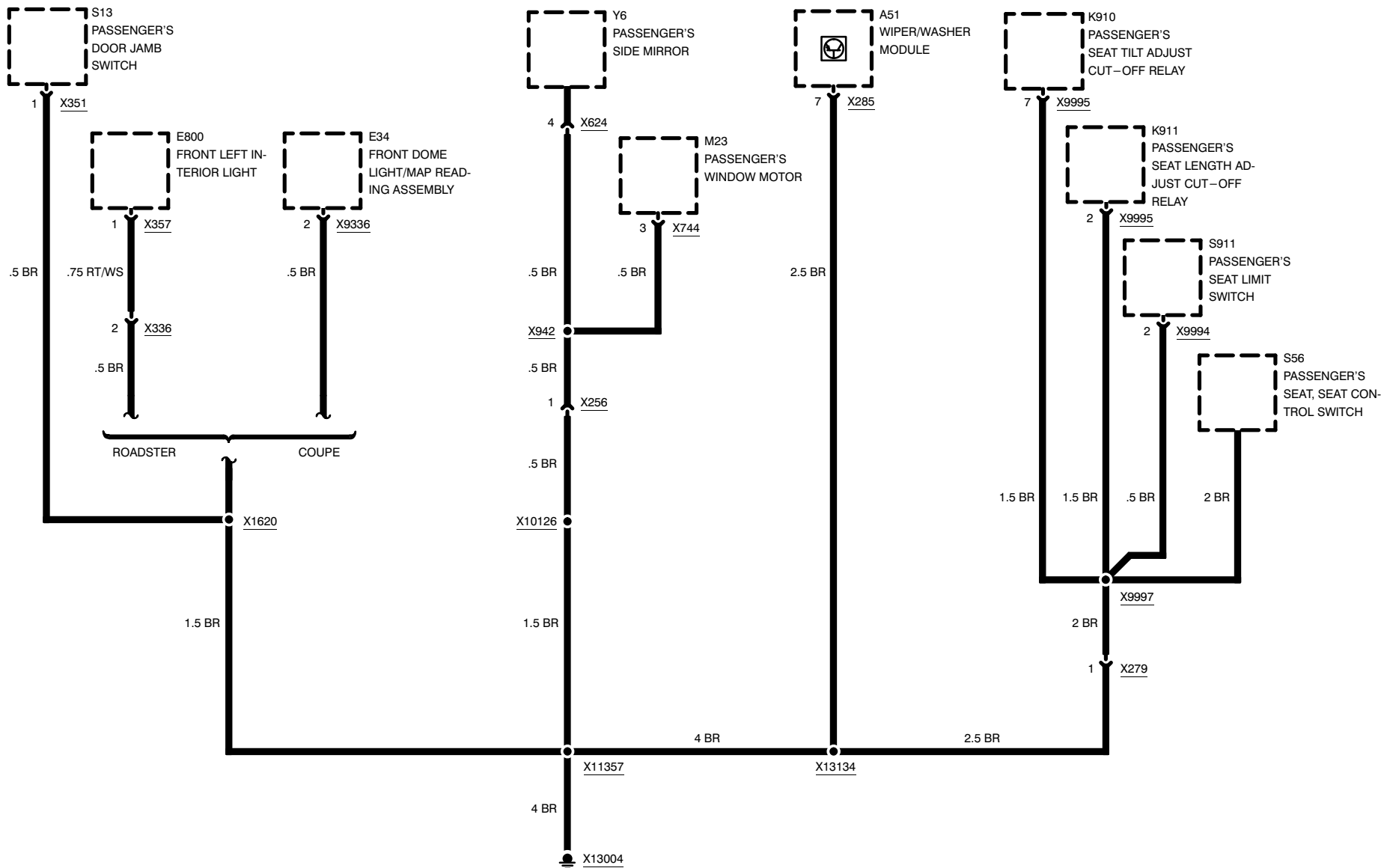


GROUND DISTRIBUTION

GROUND X13004

Z3

M VERSIONS



09/98

0670.4-14

1999

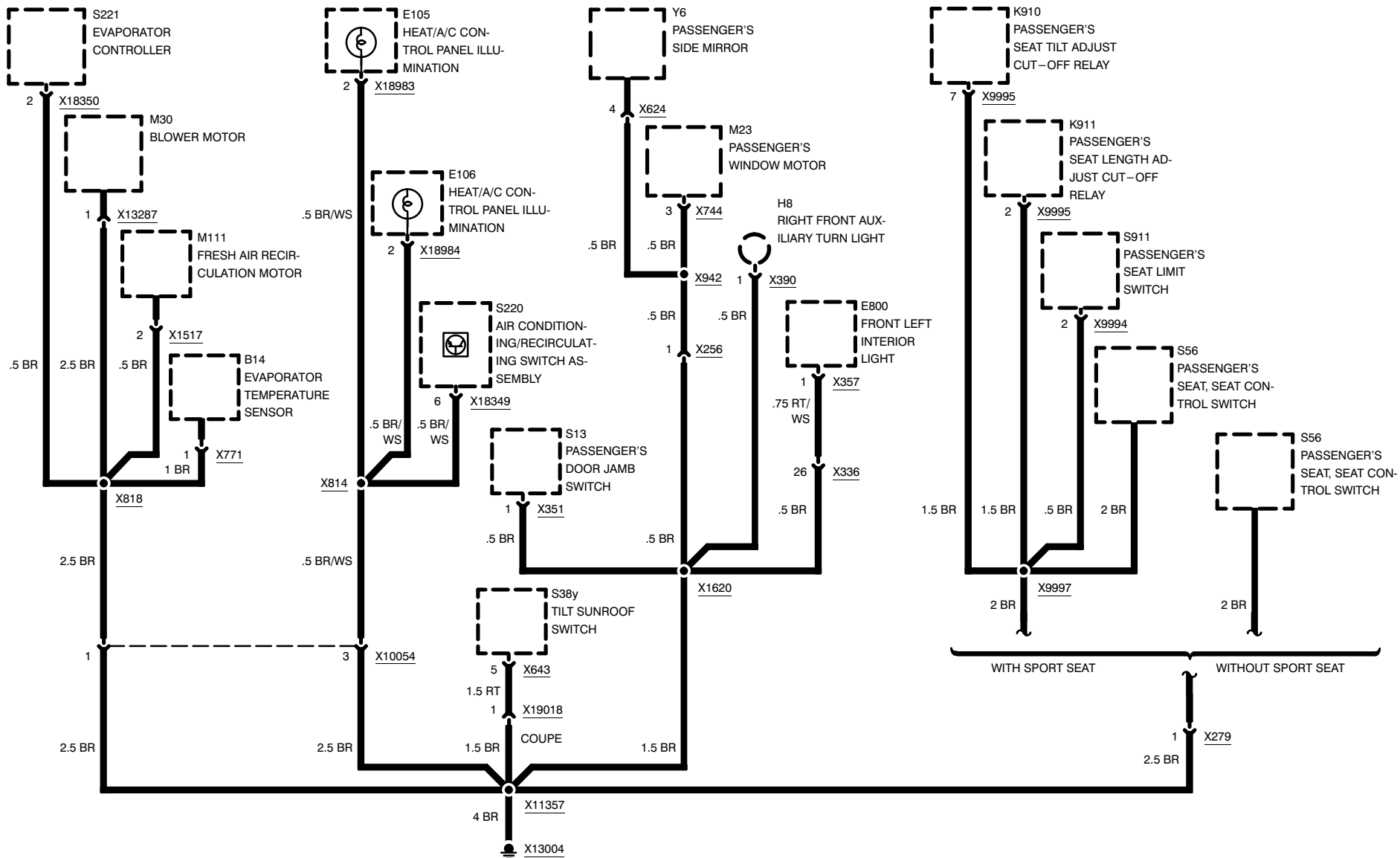


GROUND DISTRIBUTION

Z3 VERSIONS

GROUND X13004

Z3



09/98

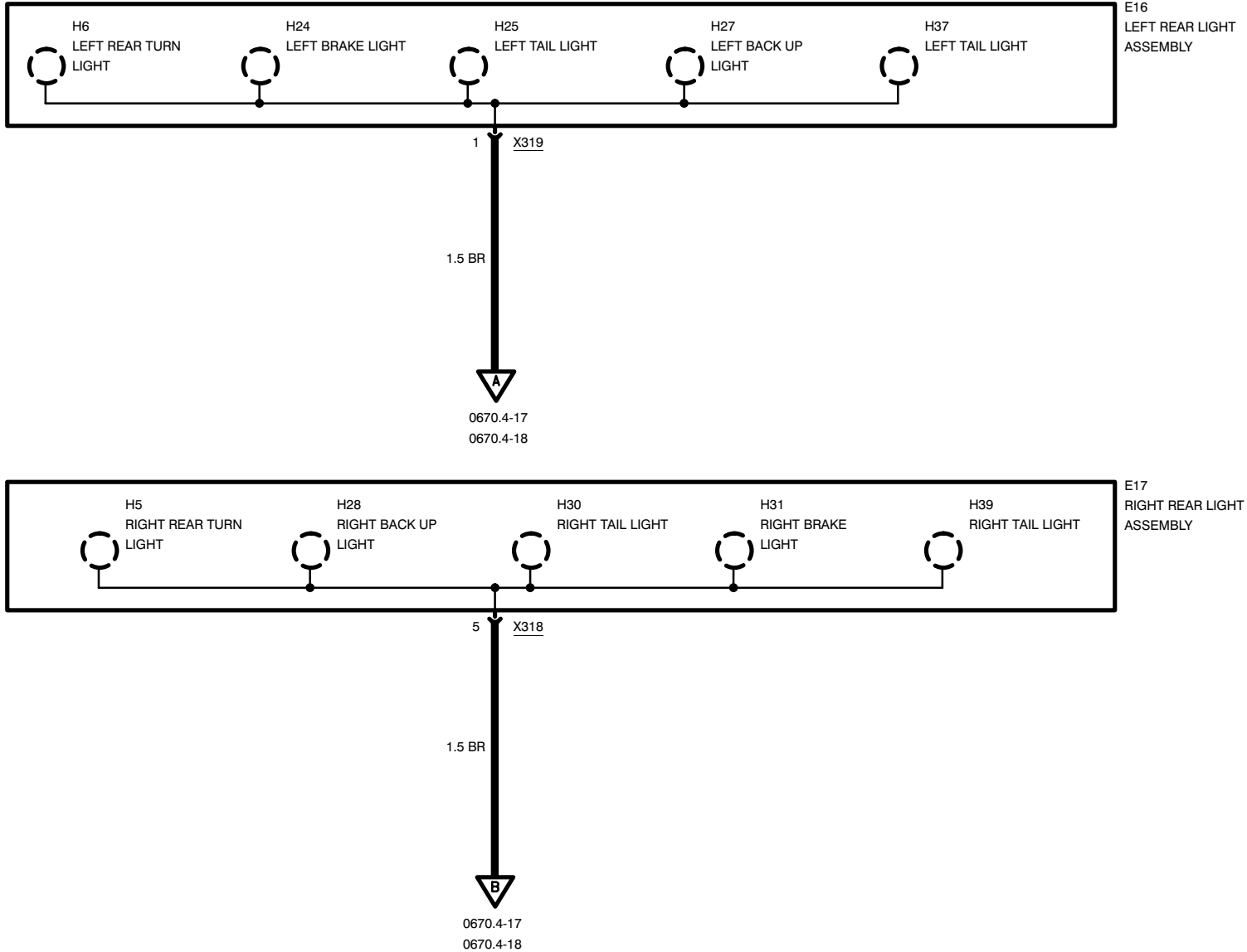
0670.4-15

1999



GROUND DISTRIBUTION

GROUND X13006



09/98

0670.4-16

1999

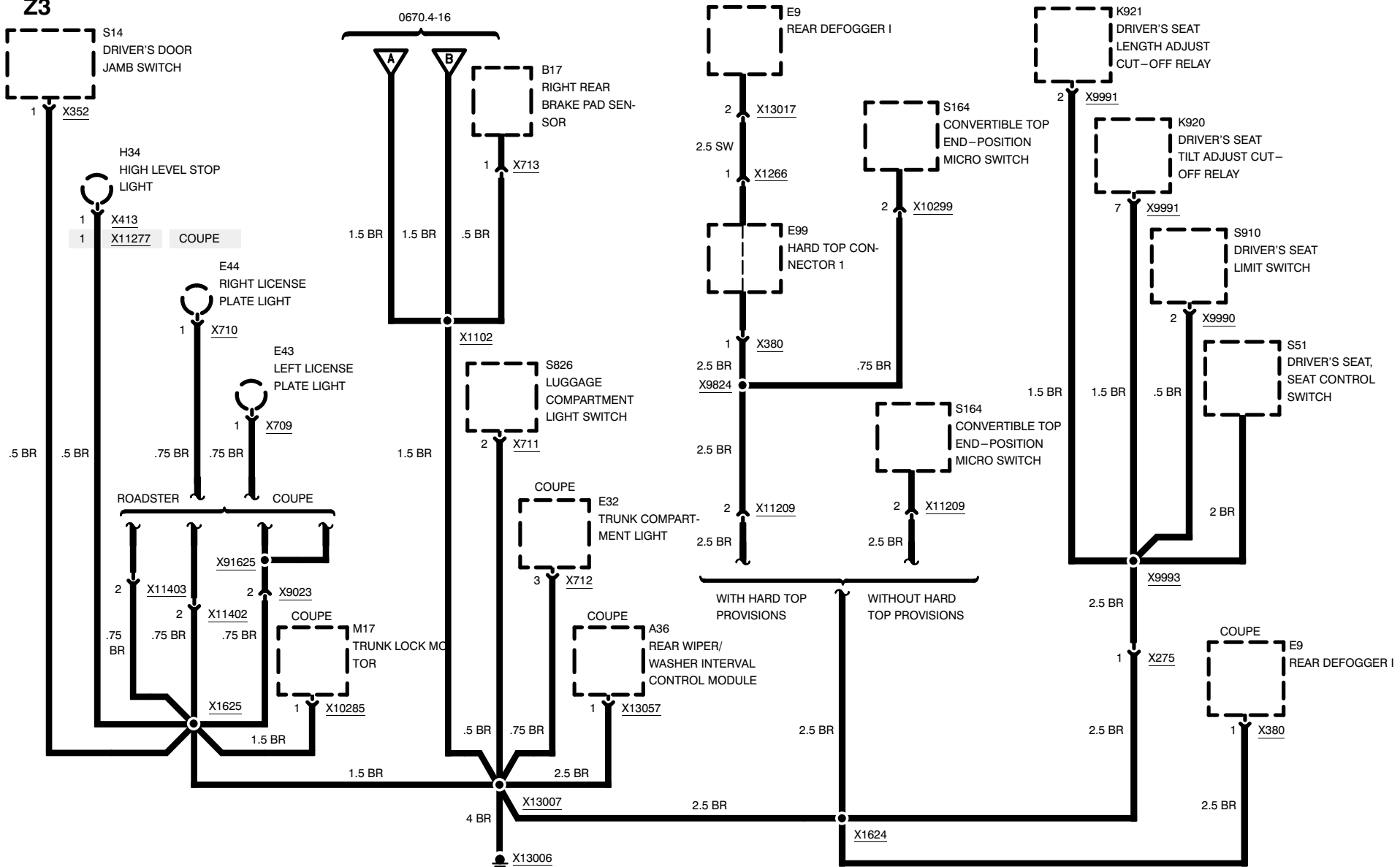


GROUND DISTRIBUTION

GROUND X13006

M VERSIONS

Z3



09/98

0670.4-17

1999

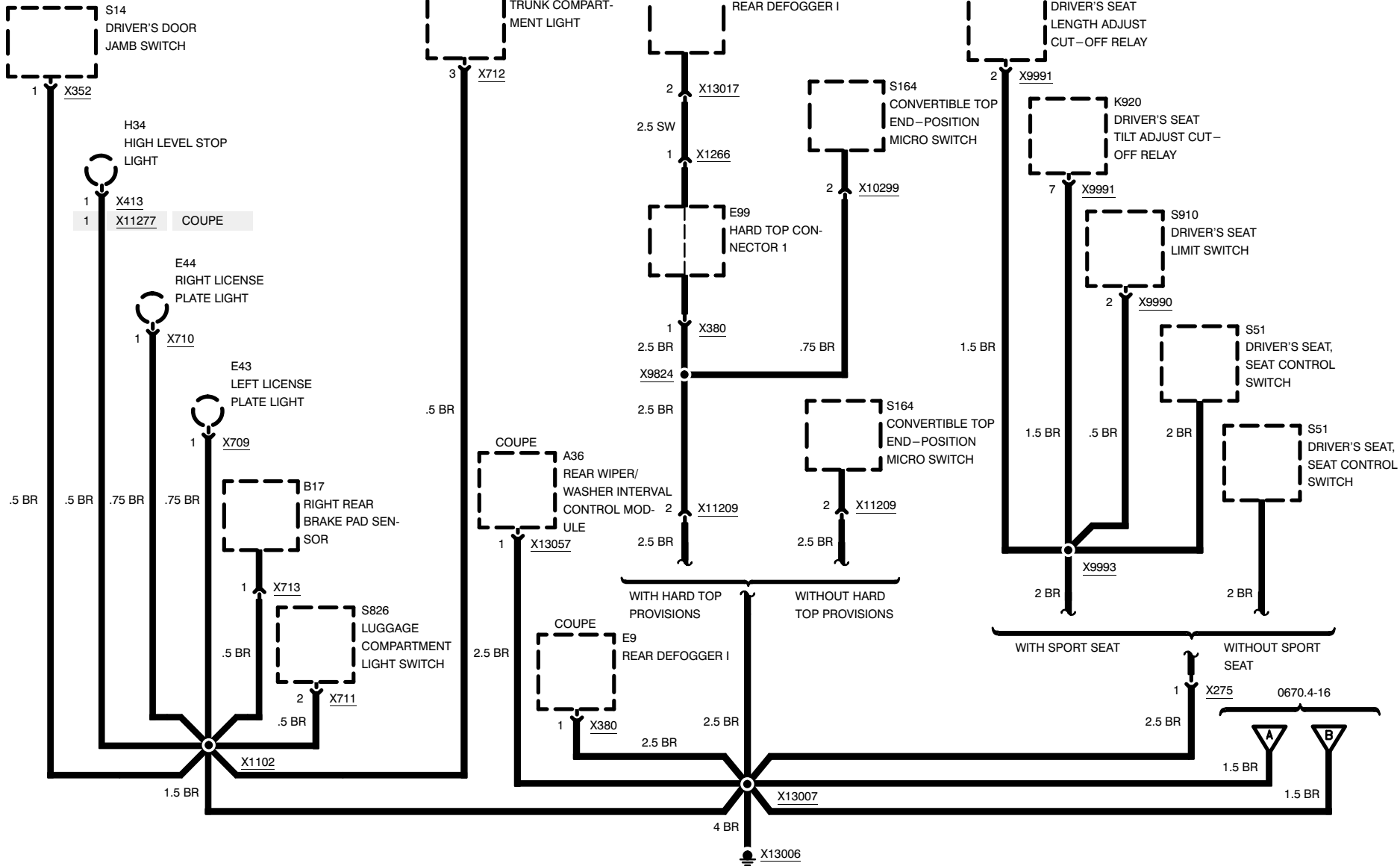


GROUND DISTRIBUTION

Z3 VERSIONS

GROUND X13006

Z3



09/98

0670.4-18

1999

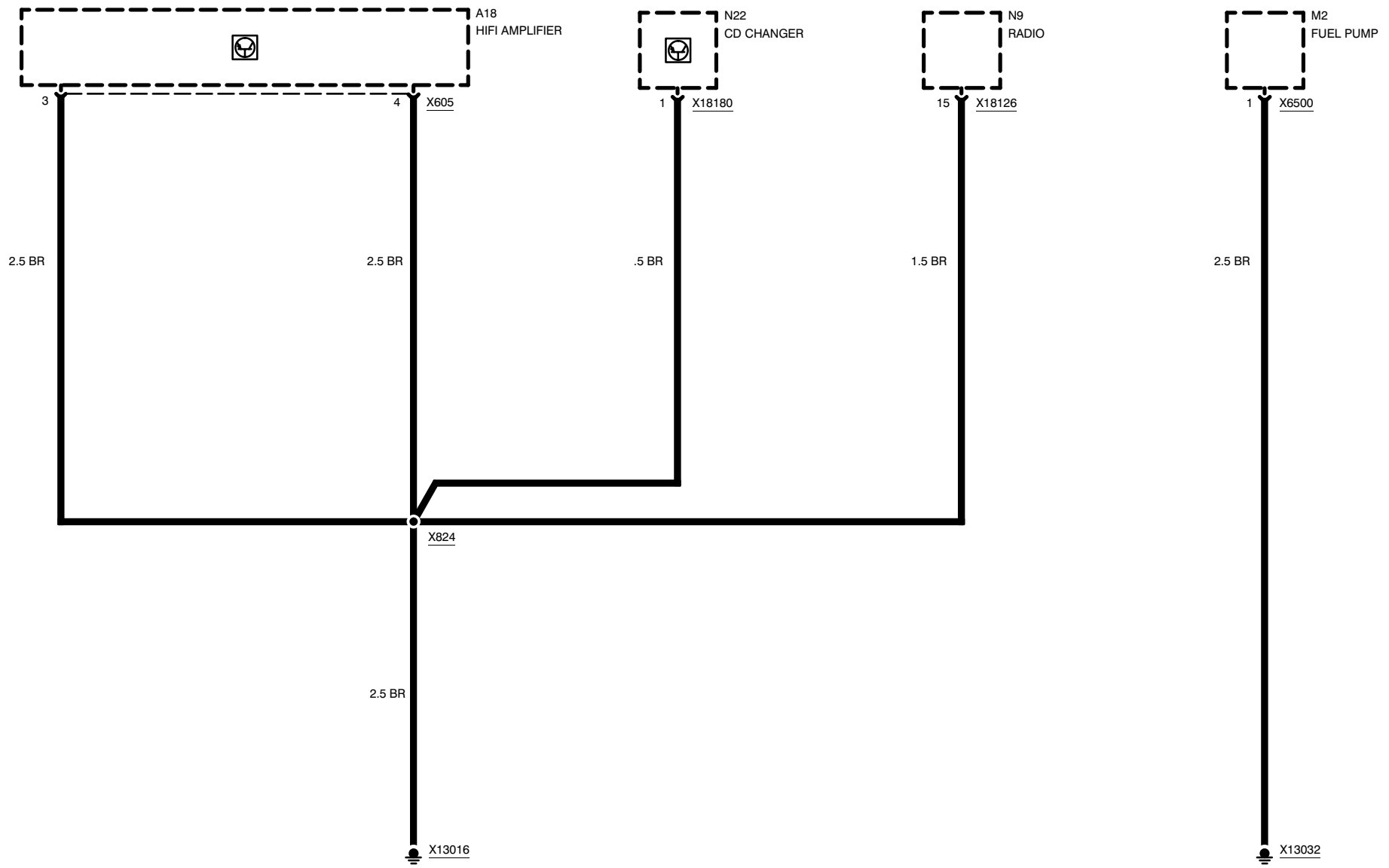


GROUND DISTRIBUTION

3

GROUNDS X13016 AND X13032

Z3



09/98 ——— 0670.4-19 ——— 1999



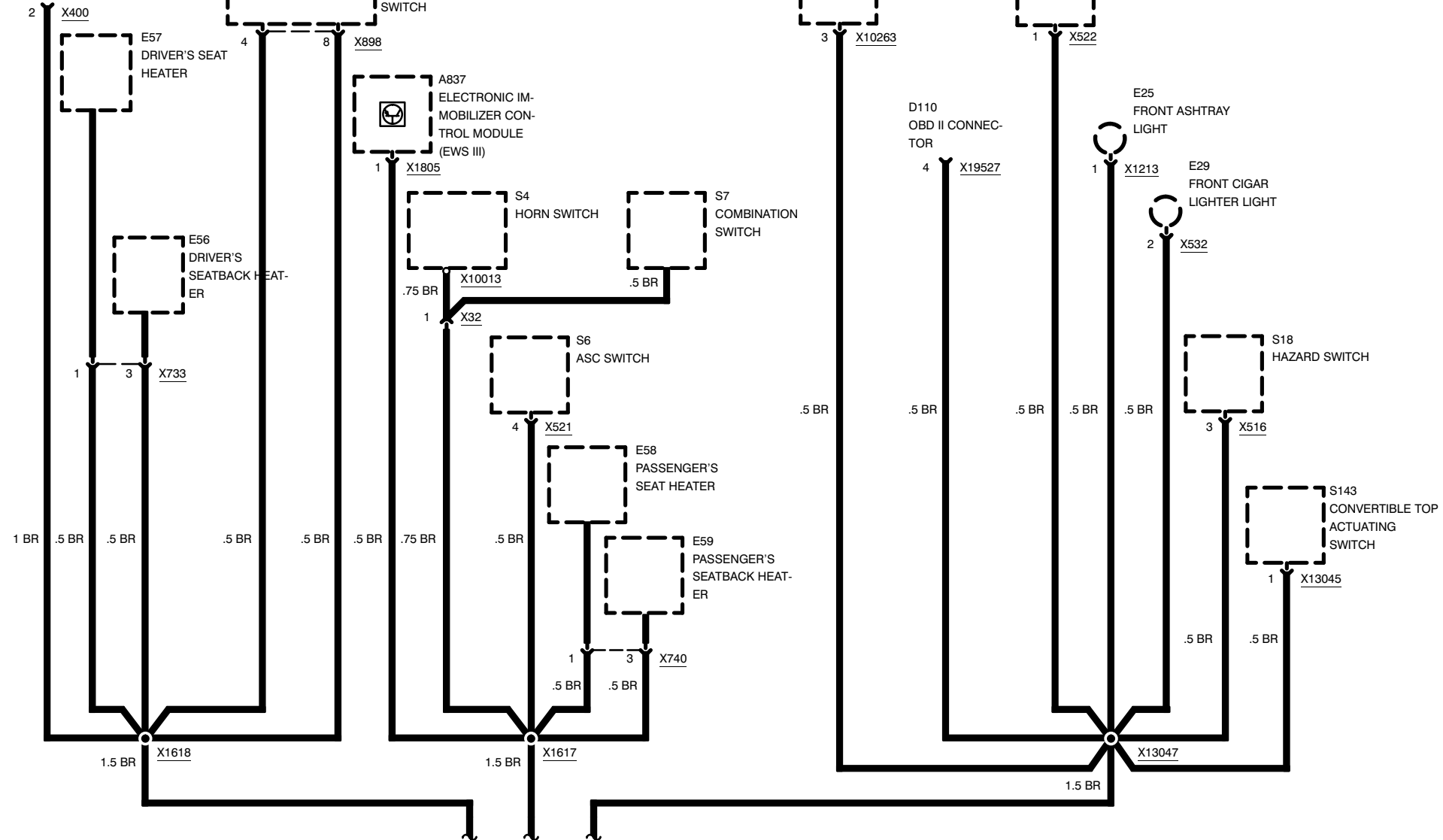
GROUND DISTRIBUTION

GROUND X18170

Z3 VERSIONS

Z3

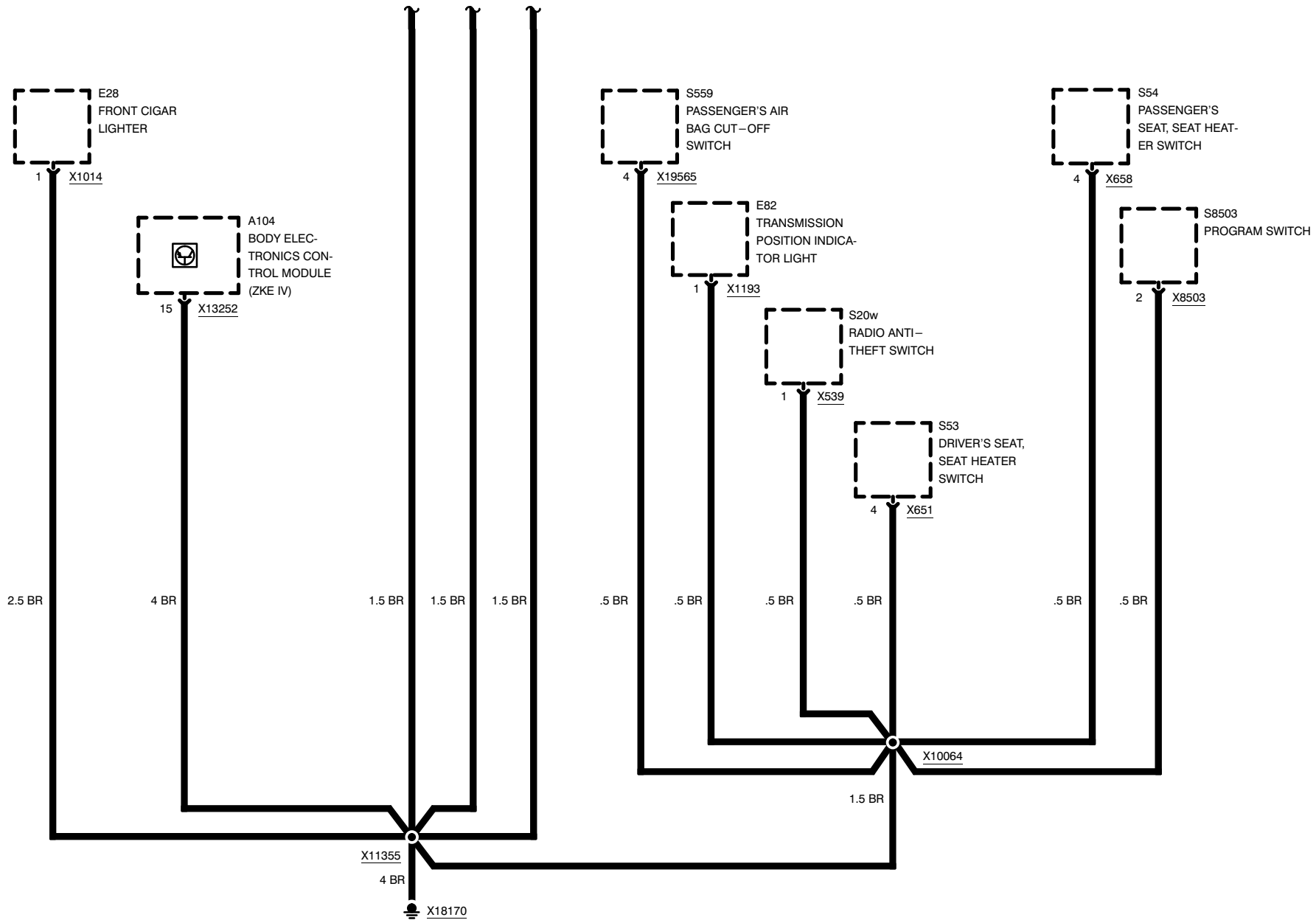
TELEPHONE CON-
NECTOR



09/98

0670.4-20

1999





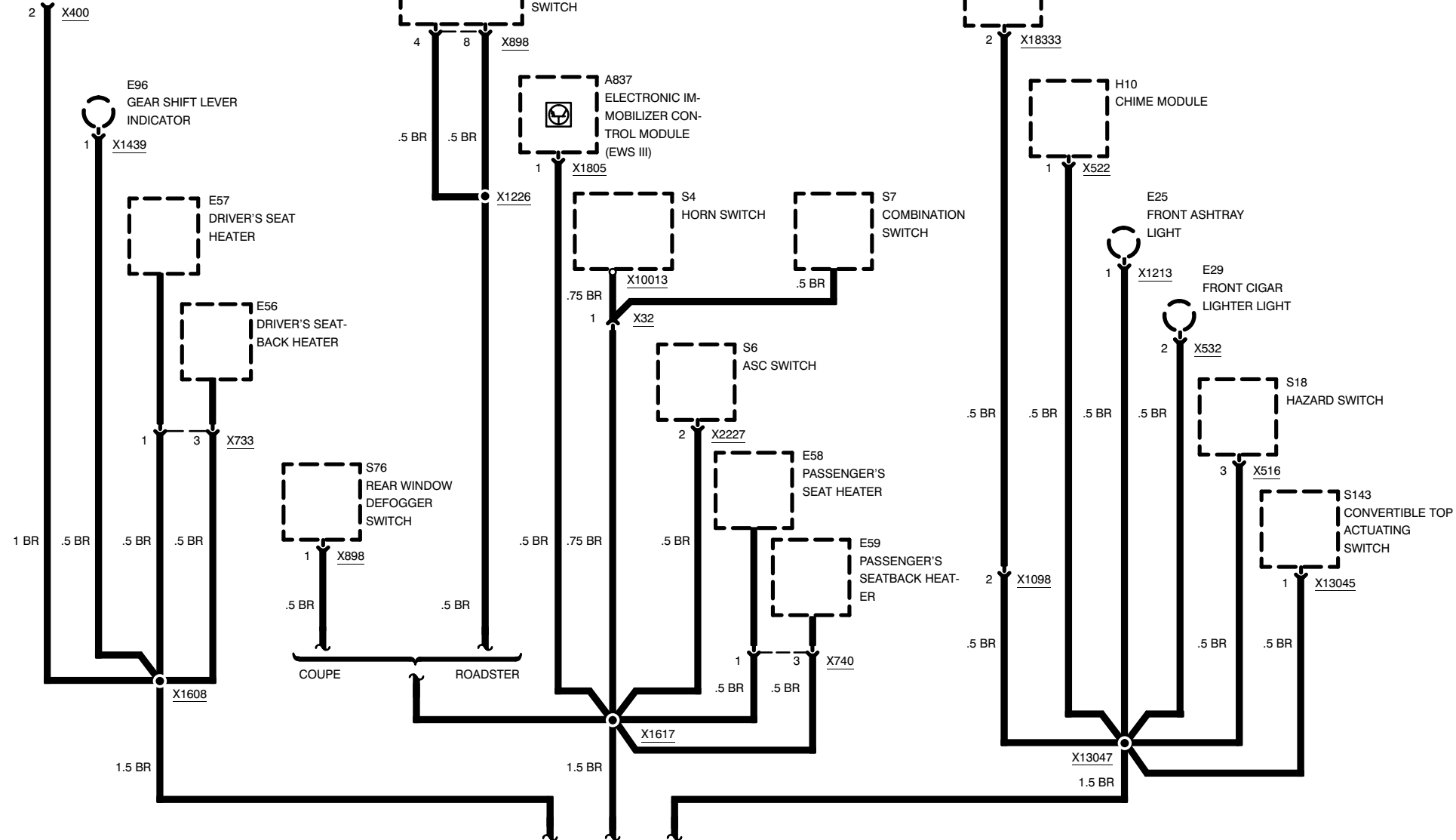
GROUND DISTRIBUTION

GROUND X18170

M VERSIONS

Z3

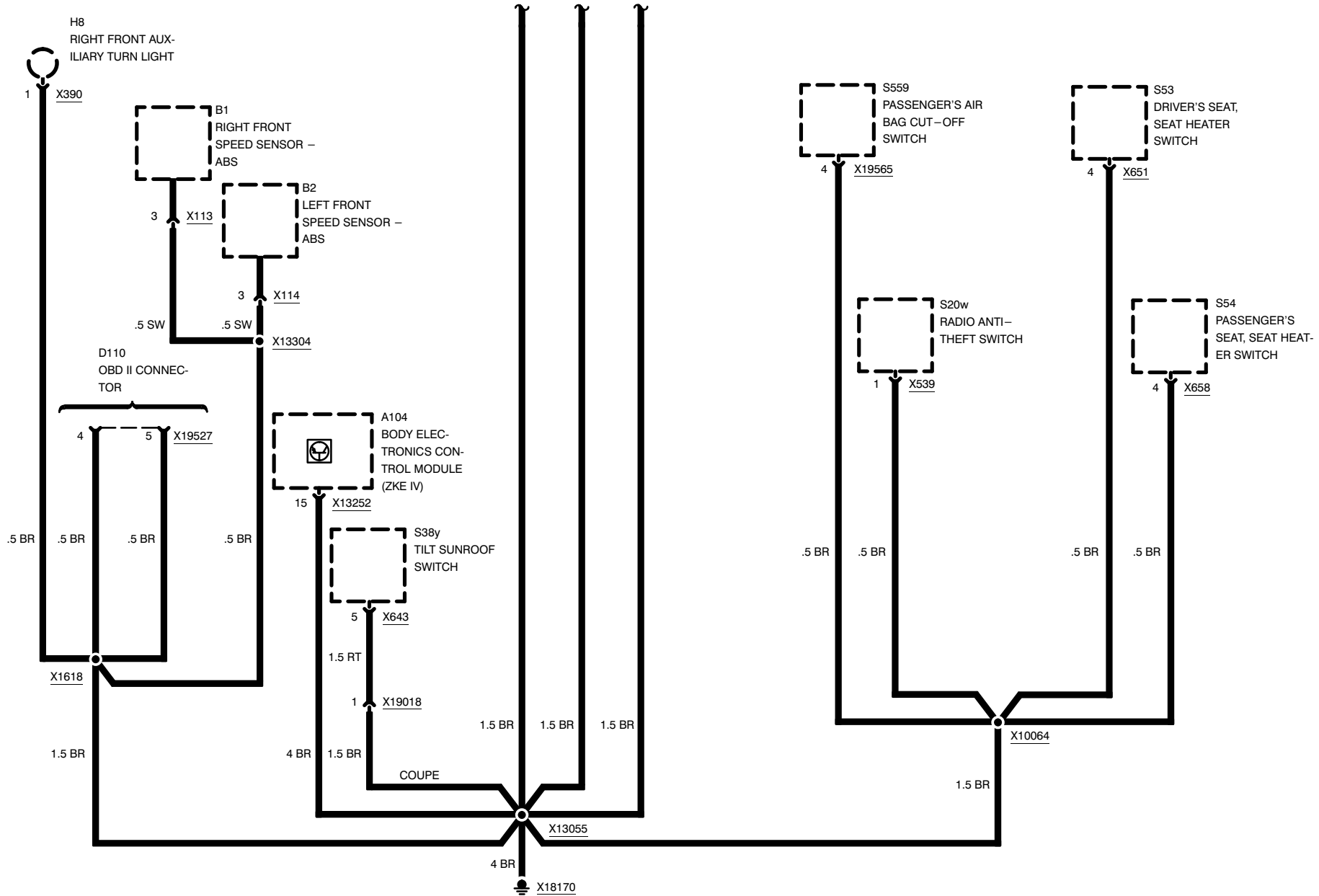
TELEPHONE CON-
NECTOR



09/98

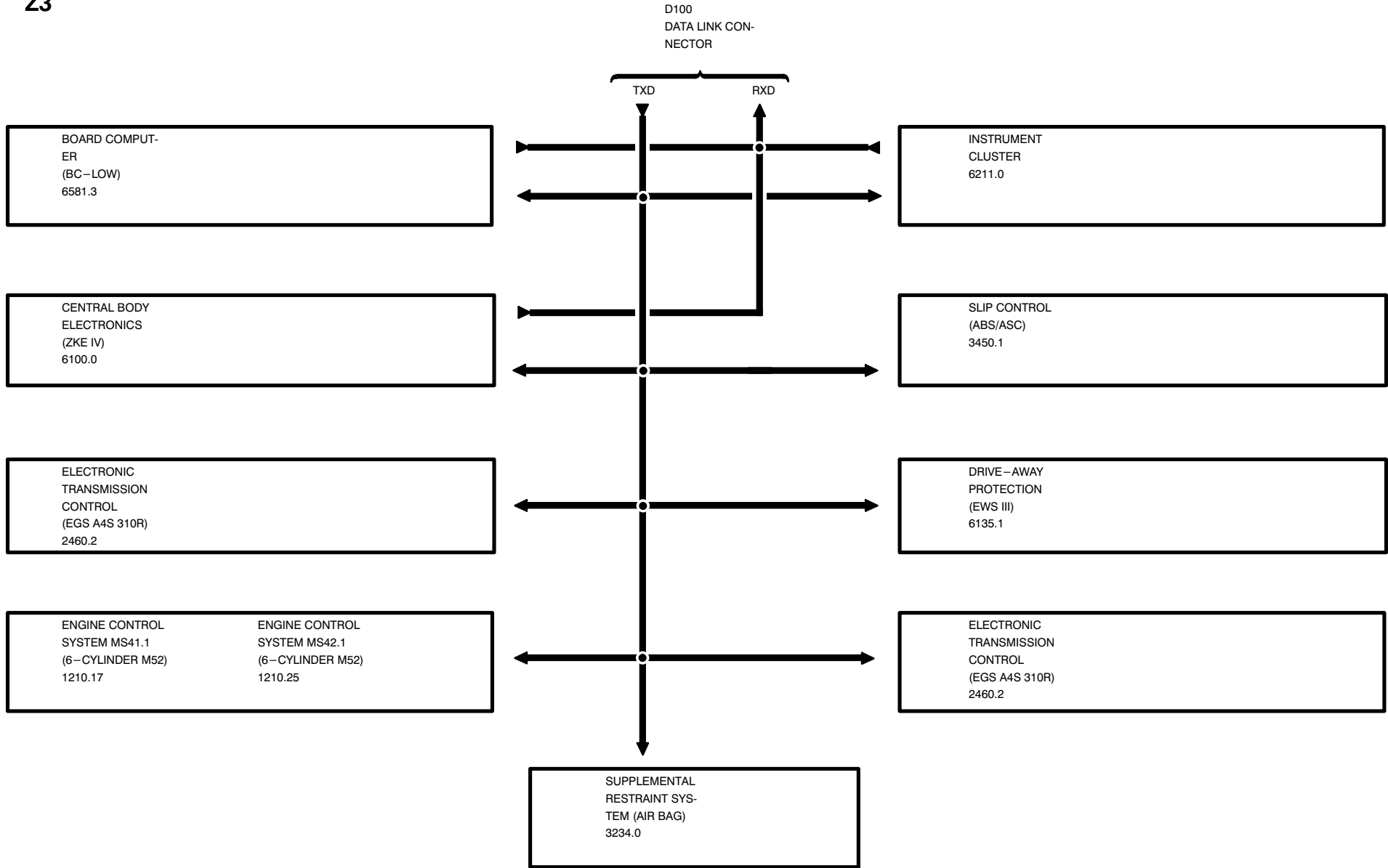
0670.4-22

1999





DATA LINK BLOCK DIAGRAM



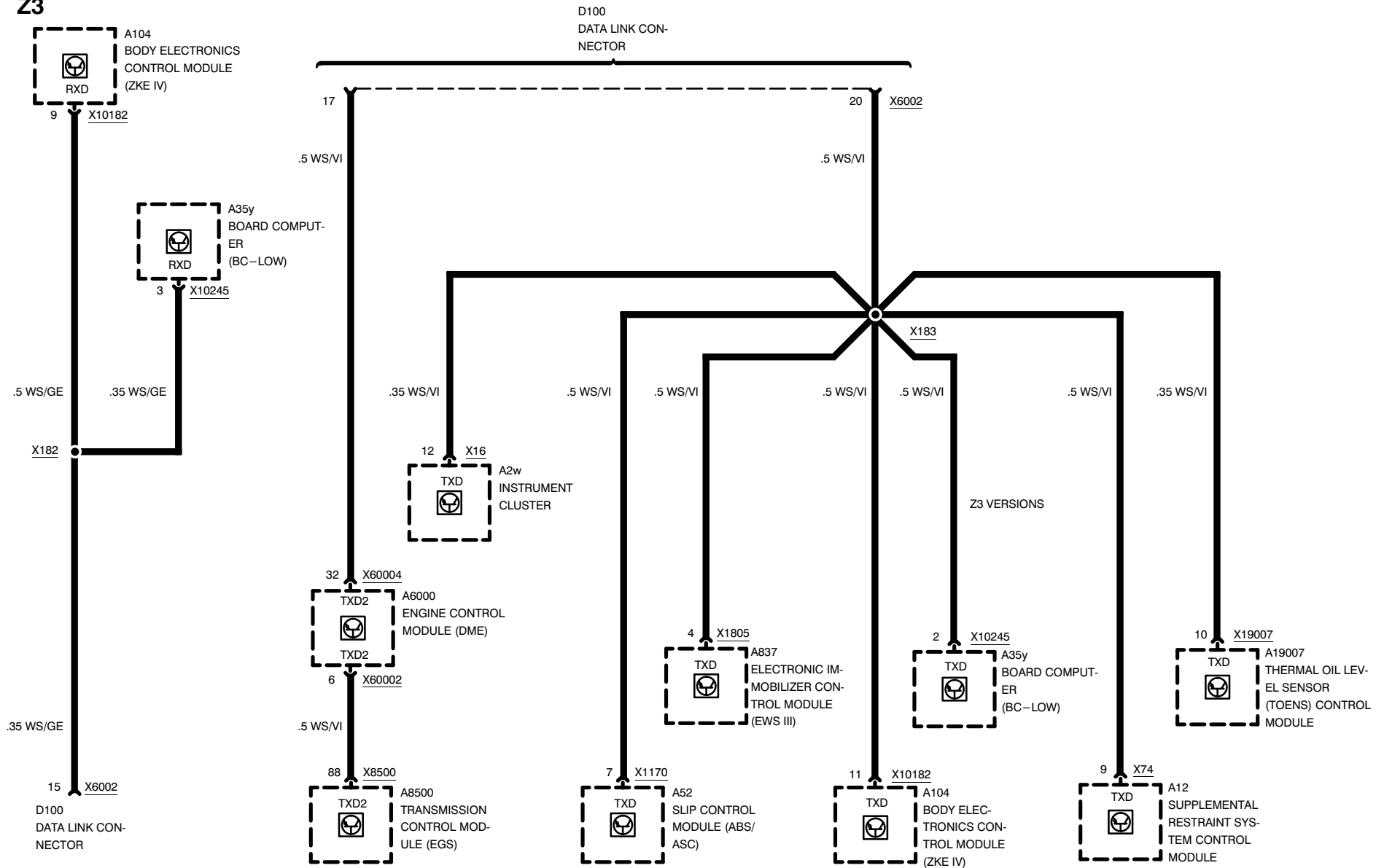
09/98 ————— 0670.5-00 ————— 1999



DATA LINK RXD AND TXD

Z3 VERSIONS

Z3



09/98

0670.5-01

1999

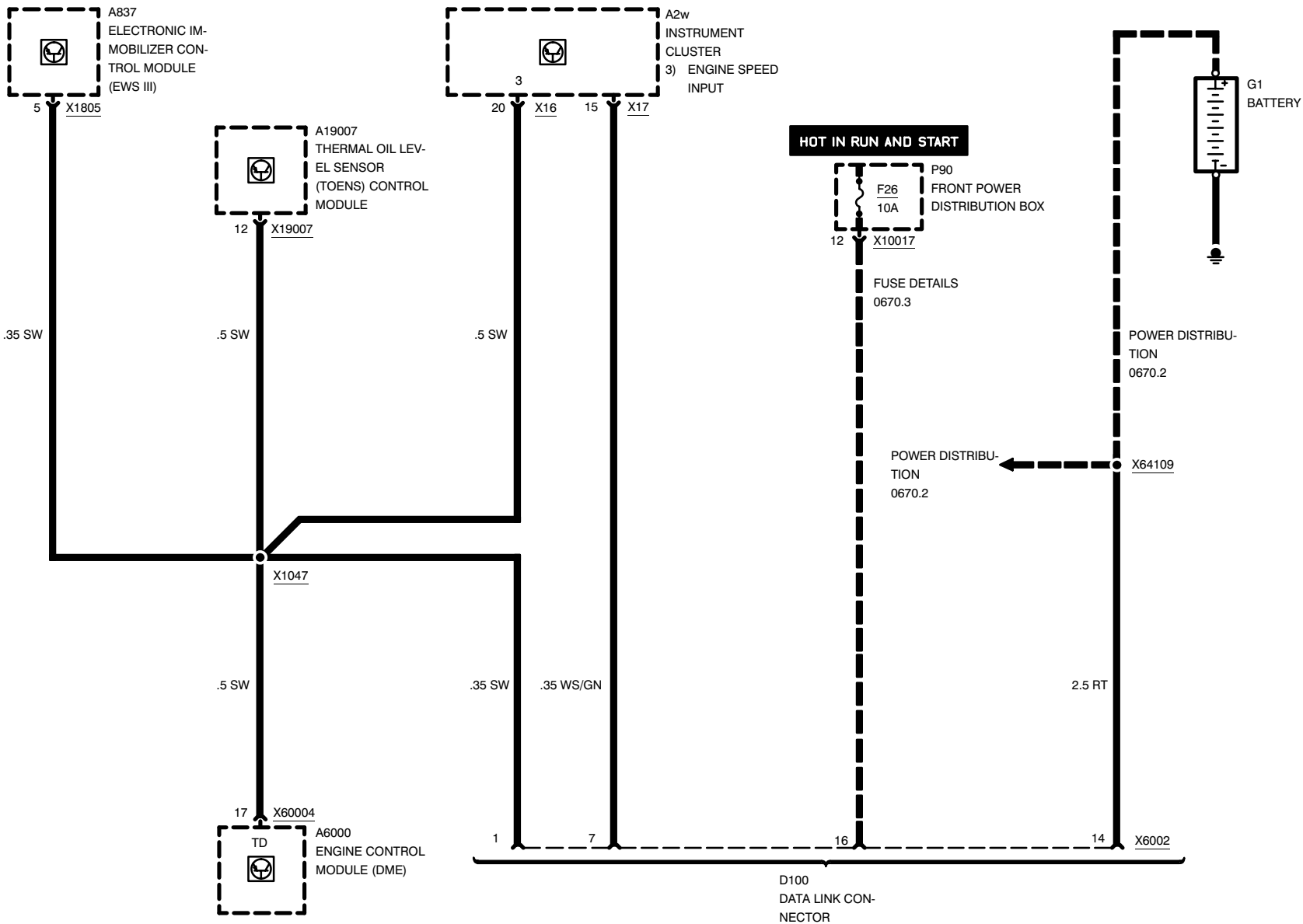


Z3

DATA LINK

DATA LINK CONNECTOR, PINS 1, 7, 14, AND 16

Z3 VERSIONS



09/98

0670.5-02

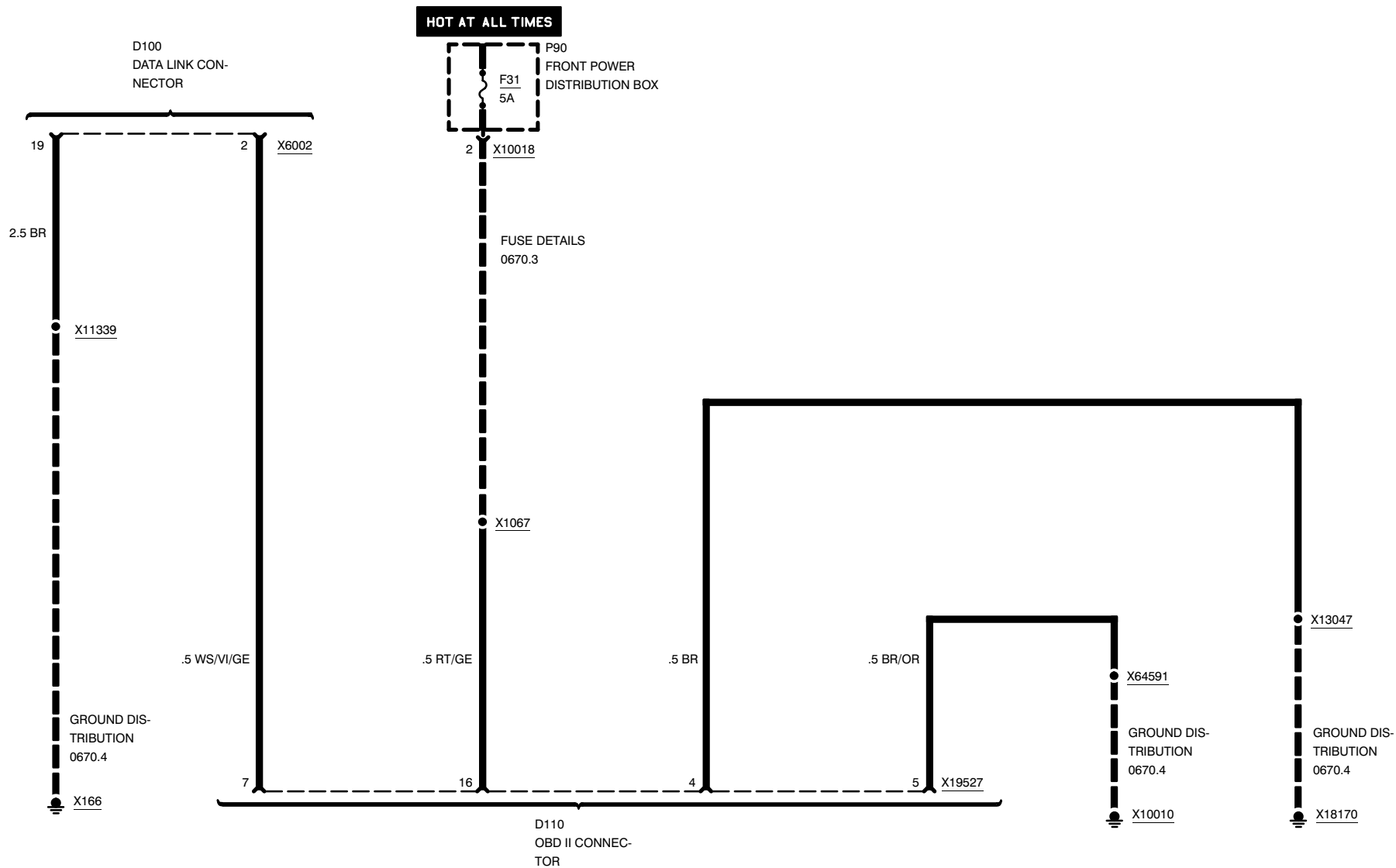
1999



DATA LINK

Z3 VERSIONS

DATA LINK CONNECTOR, PINS 2 AND 19, AND OBD II CONNECTOR



09/98

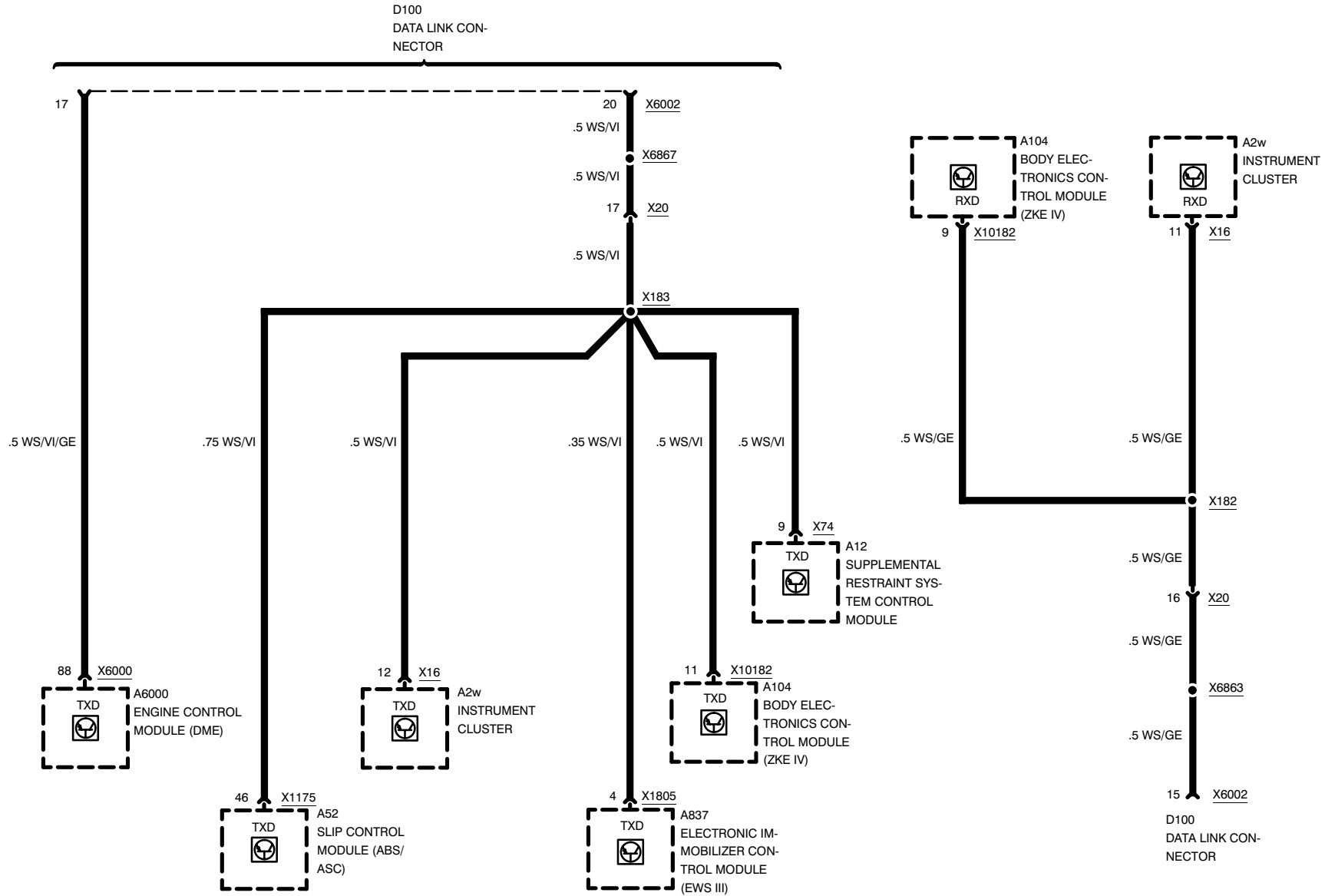
0670.5-03

1999



DATA LINK TXD AND RXD

M VERSIONS



09/98

0670.5-04

1999



DATA LINK

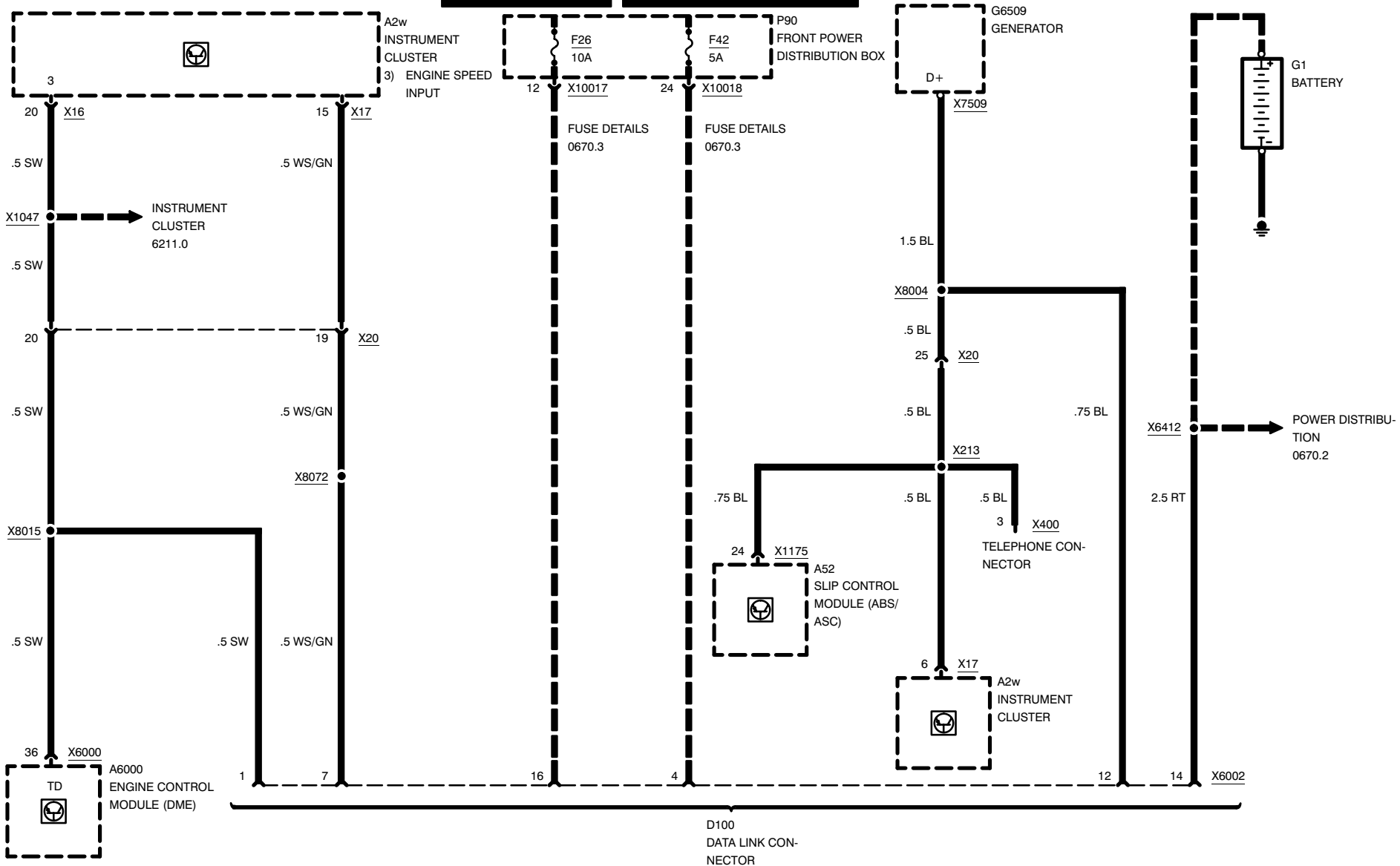
M VERSIONS

DATA LINK CONNECTOR, PINS 1, 7, 16, 4, 12, AND 14

Z3

HOT IN RUN AND START

HOT IN ACCY, RUN AND START



09/98

0670.5-05

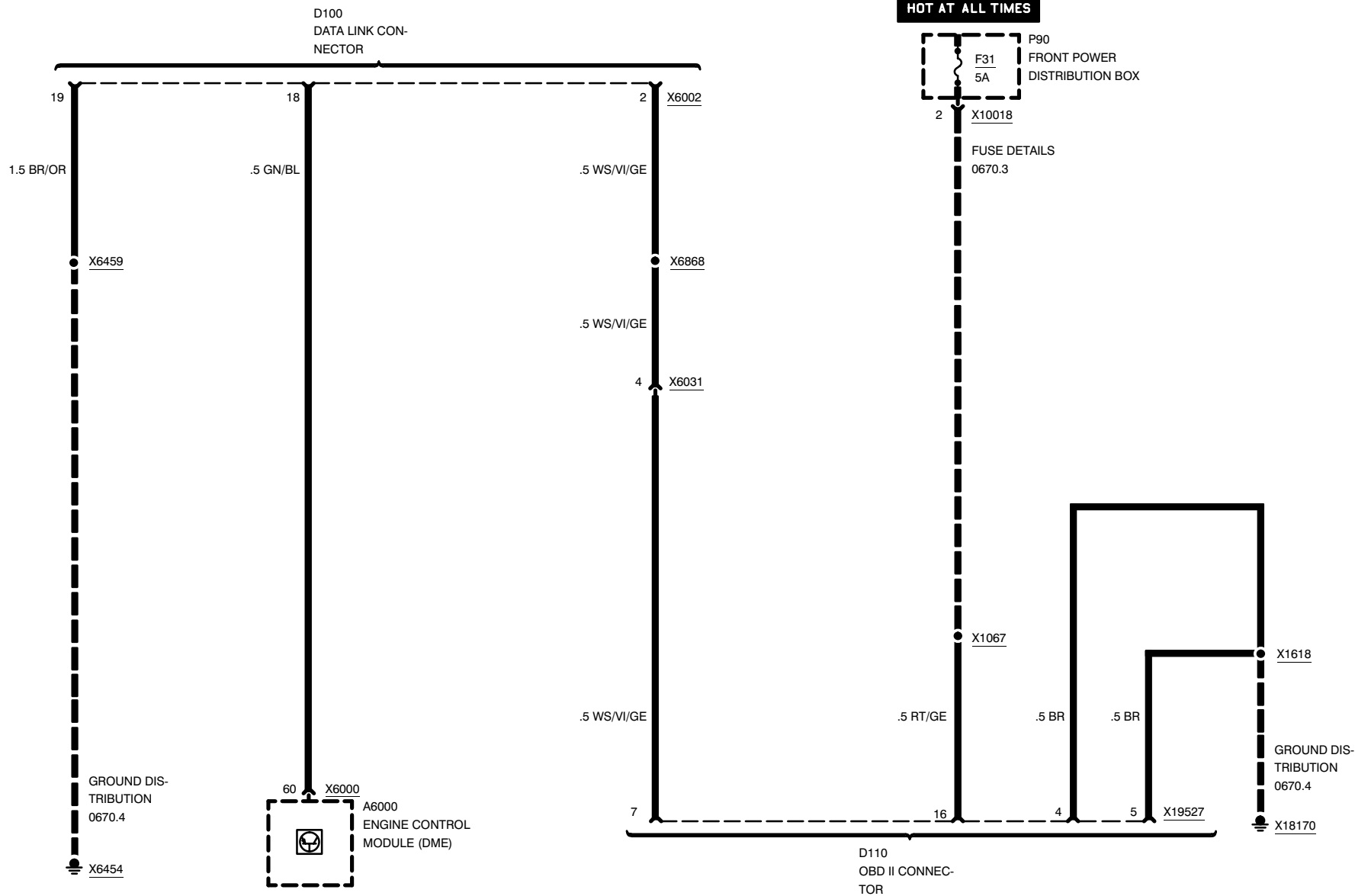
1999



DATA LINK

M VERSIONS

DATA LINK CONNECTOR, PINS 19, 18, 2, AND OBD II CONNECTOR



09/98

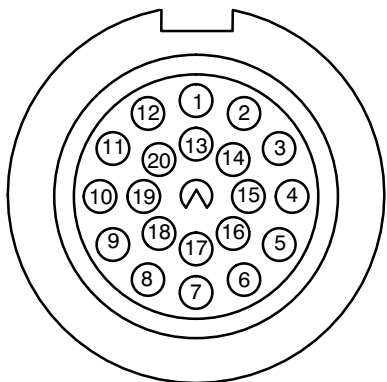
0670.5-06

1999

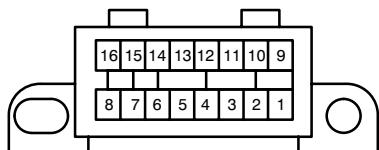
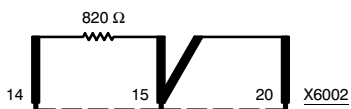
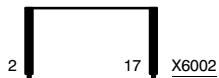


DATA LINK

DATA LINK CONNECTOR (X6002)



BRIDGES IN CAP
OF D100 DATA
LINK CONNECTOR

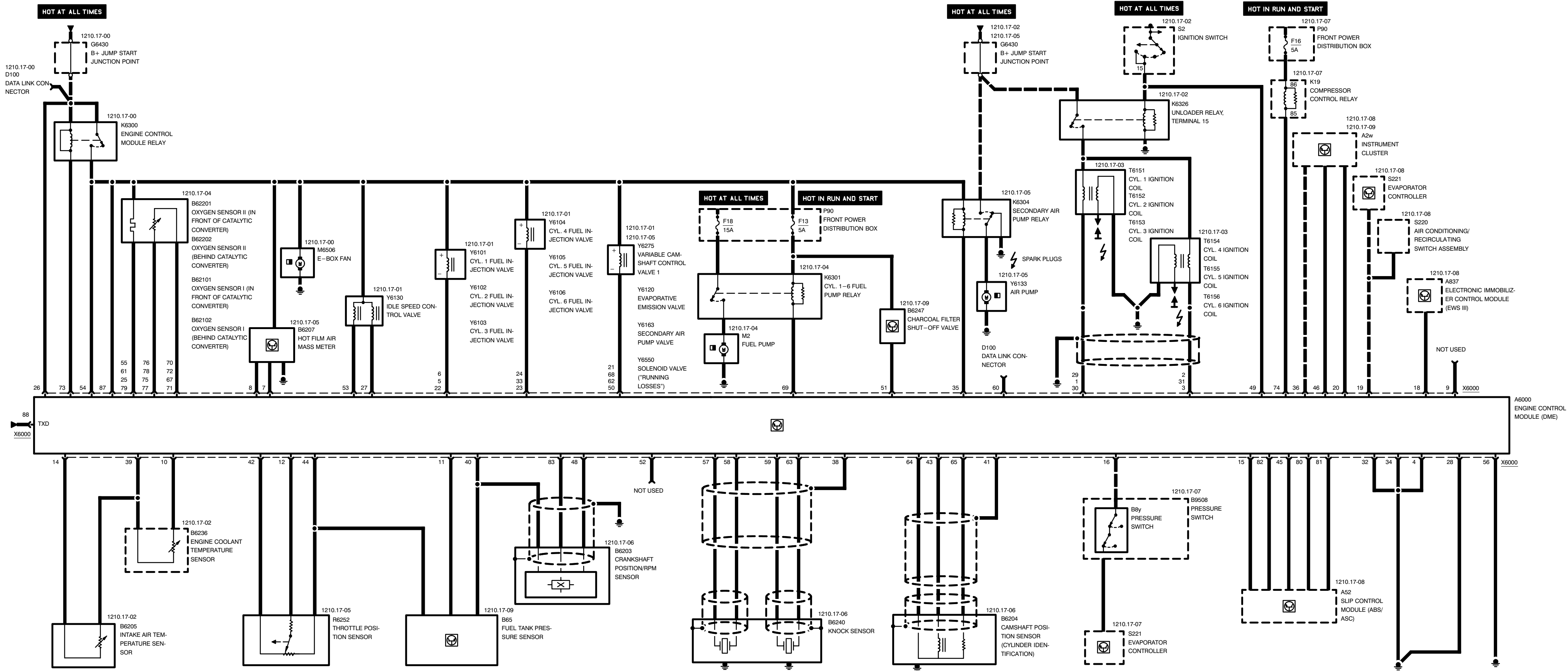


BRIDGES IN CAP
OF D110 OBD II
CONNECTOR



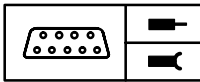
PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	TD	ENGINE	SW
2	TXD2	DIAGNOSTIC DATA LINK	WS/VI/GE
3	–	NOT OCCUPIED	
*4	R	VOLTAGE: HOT IN ACCY, RUN AND START	VI/GN
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	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

* M VERSIONS





Z3

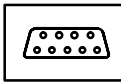
**Pin Assignments****X6000**

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

E = Input, A = Output, M = Ground



Z3



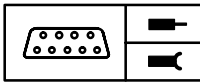
Pin Assignments

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

E = Input, A = Output, M = Ground



Z3

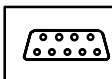
**Pin Assignments**

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

E = Input, A = Output, M = Ground



Z3



Pin Assignments

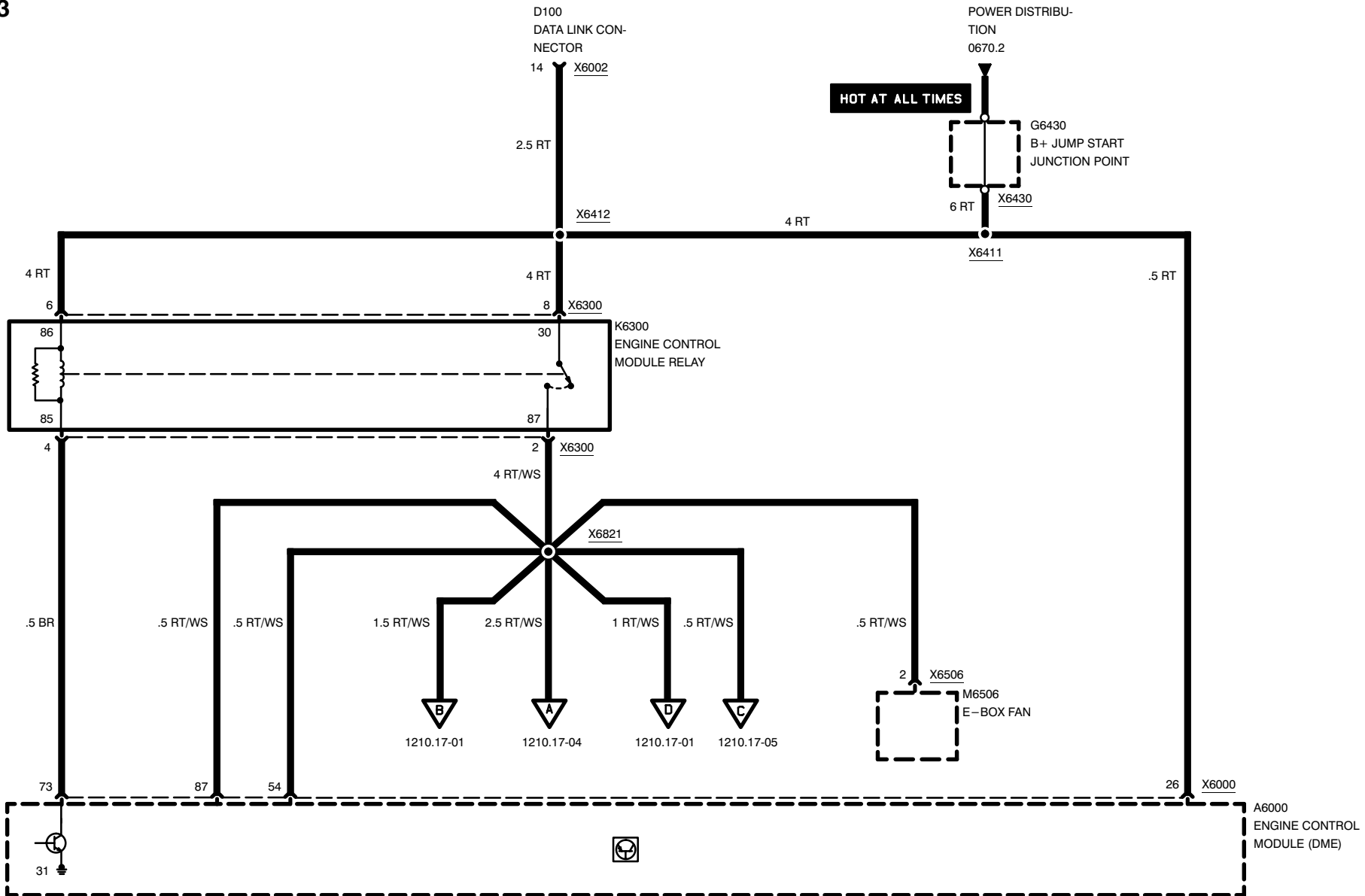
Pin	Type	Description/Function	Connection
85		Not used	
86		Not used	
87	E	Battery voltage, terminal 87	Engine control module relay
88	E/A	TxD diagnosis data link	Data link connector

E = Input, A = Output, M = Ground



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

POWER



09/98

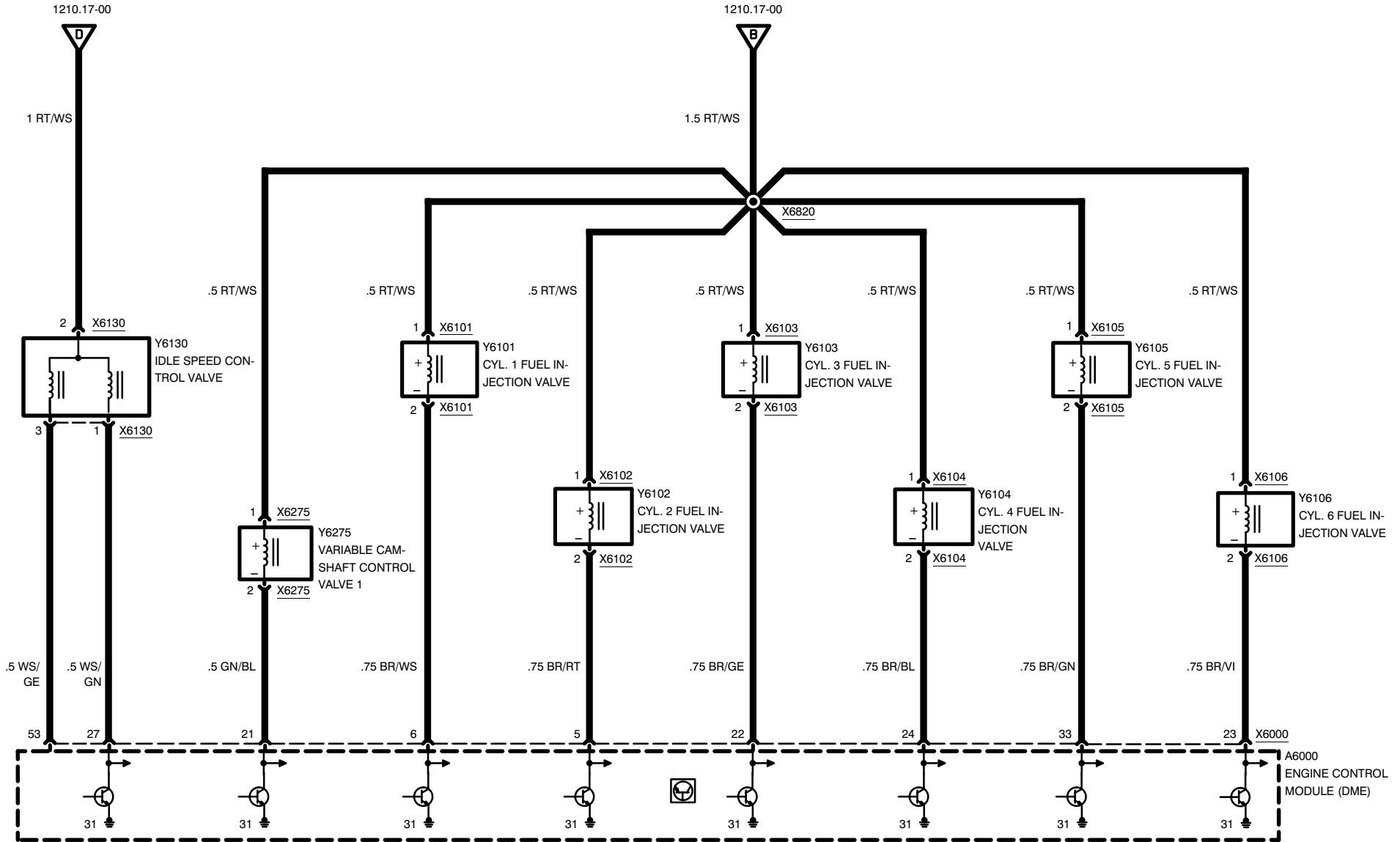
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ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)

Z3



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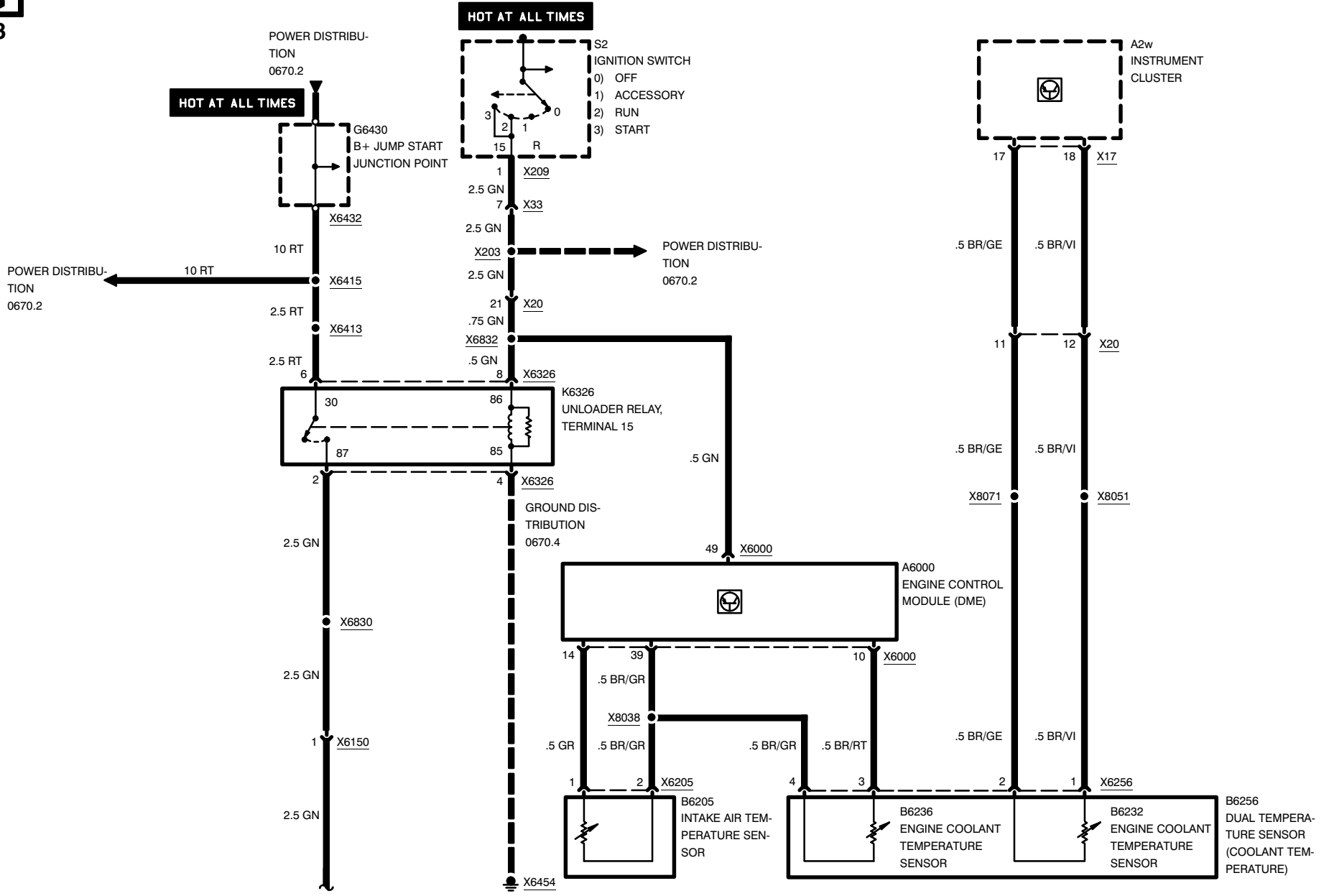
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Z3

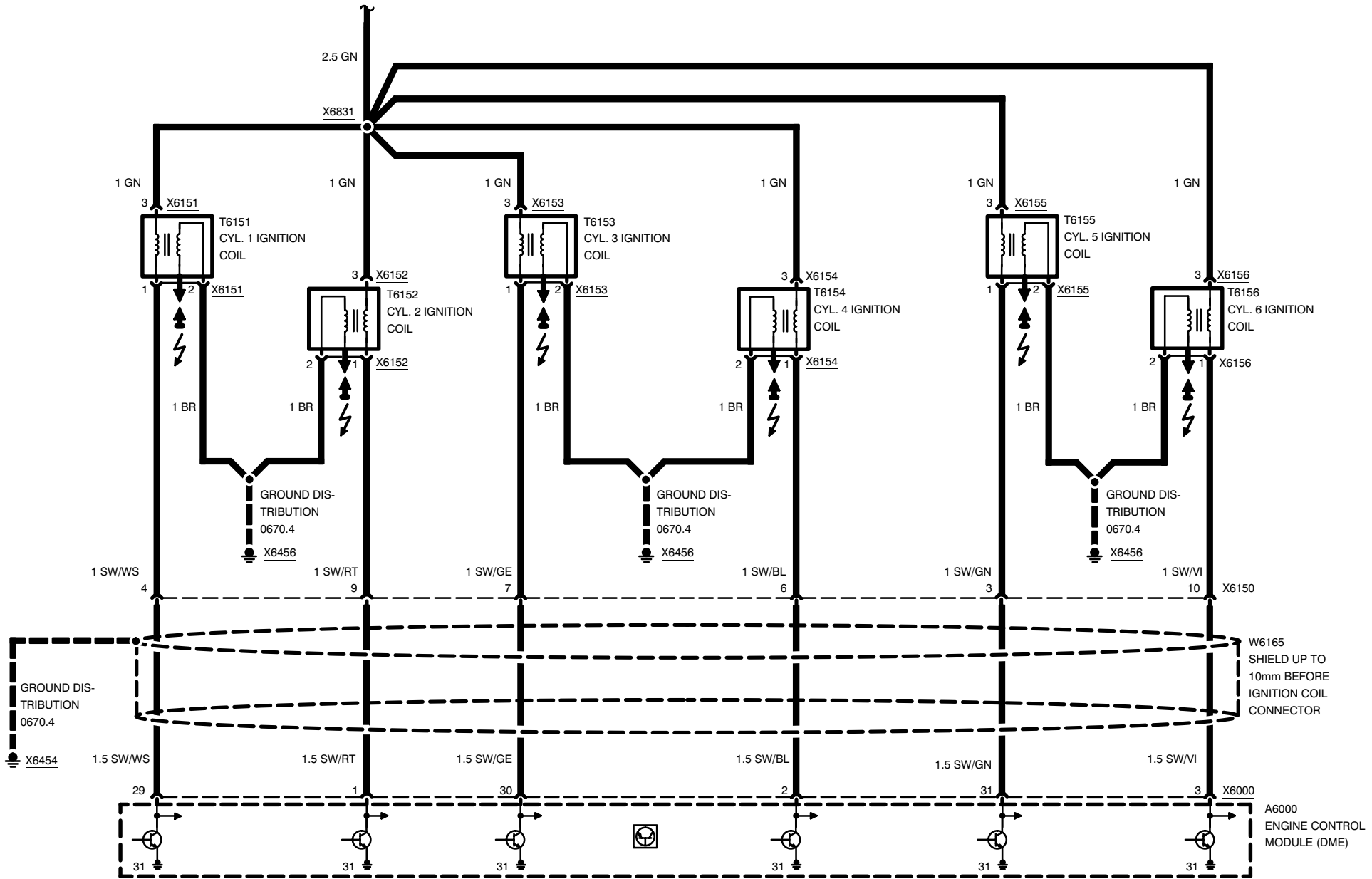
ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)



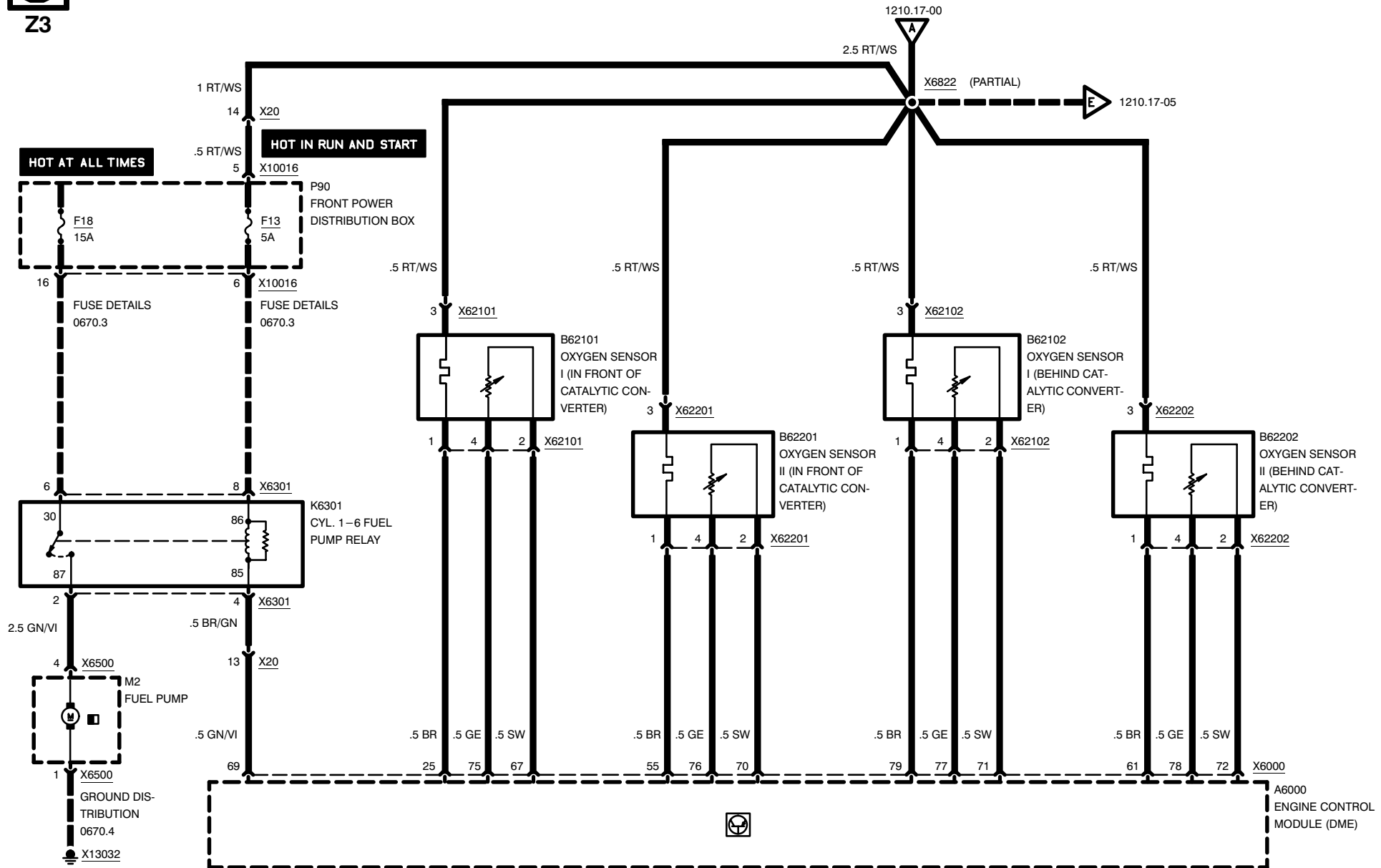
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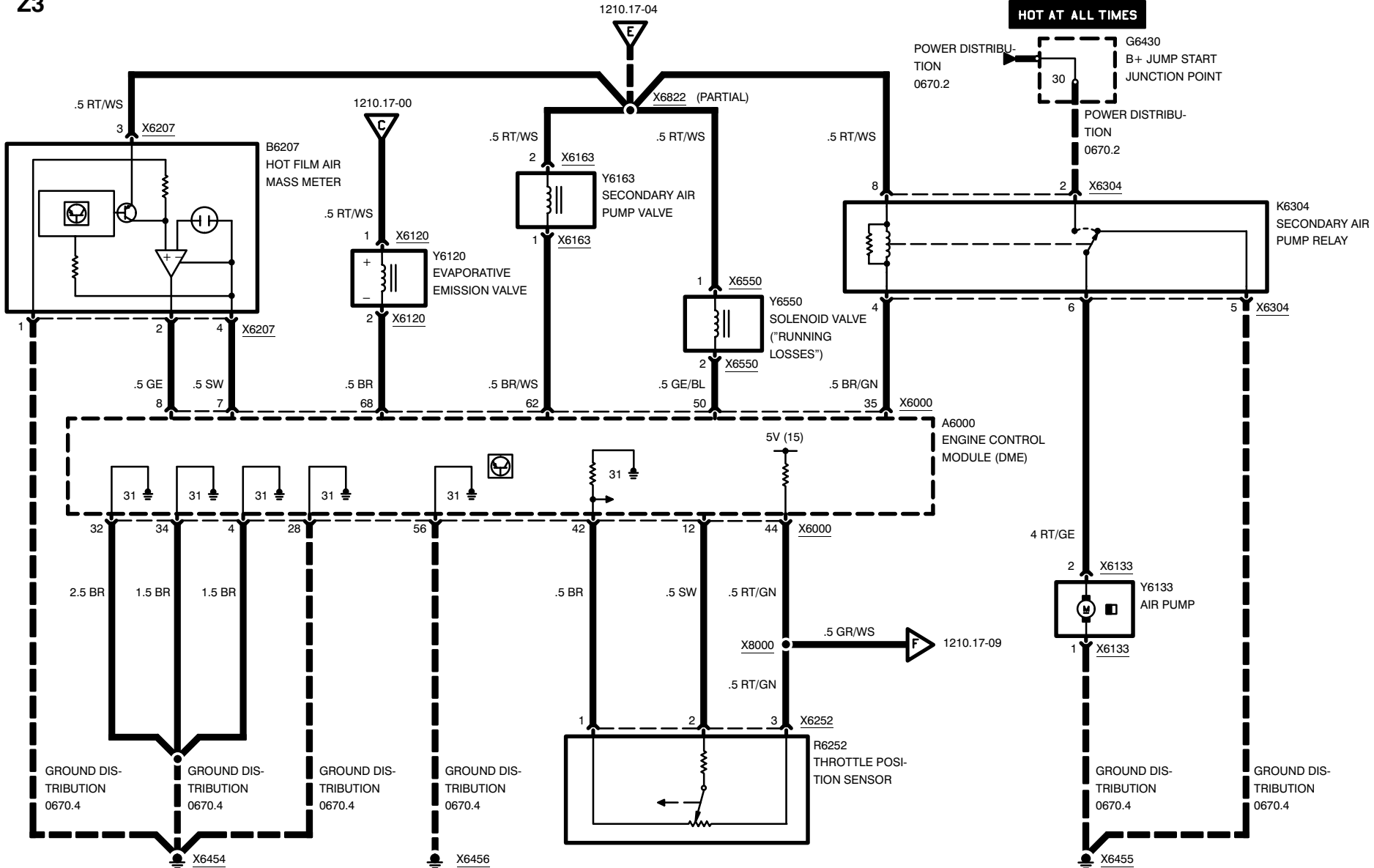
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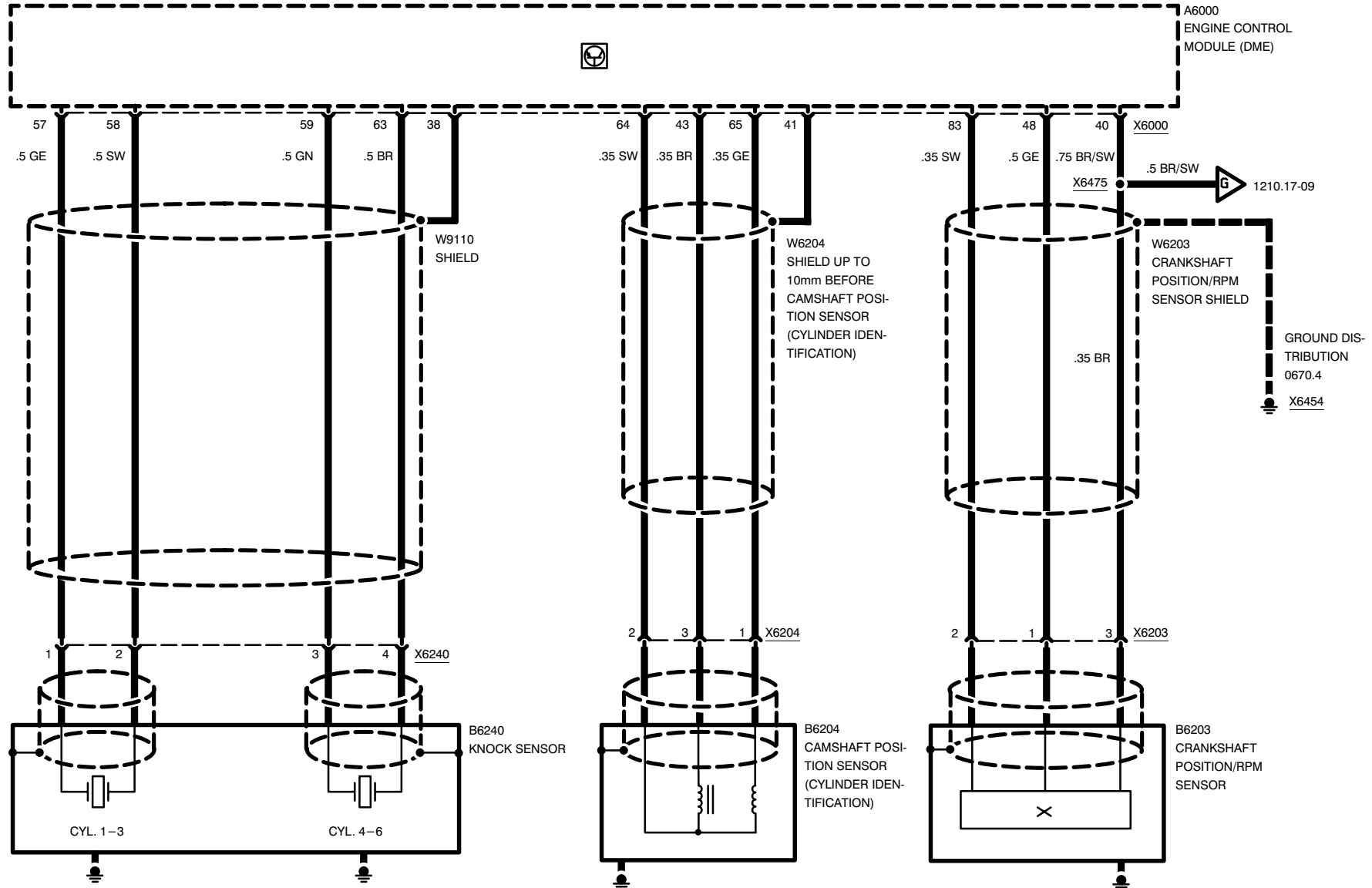
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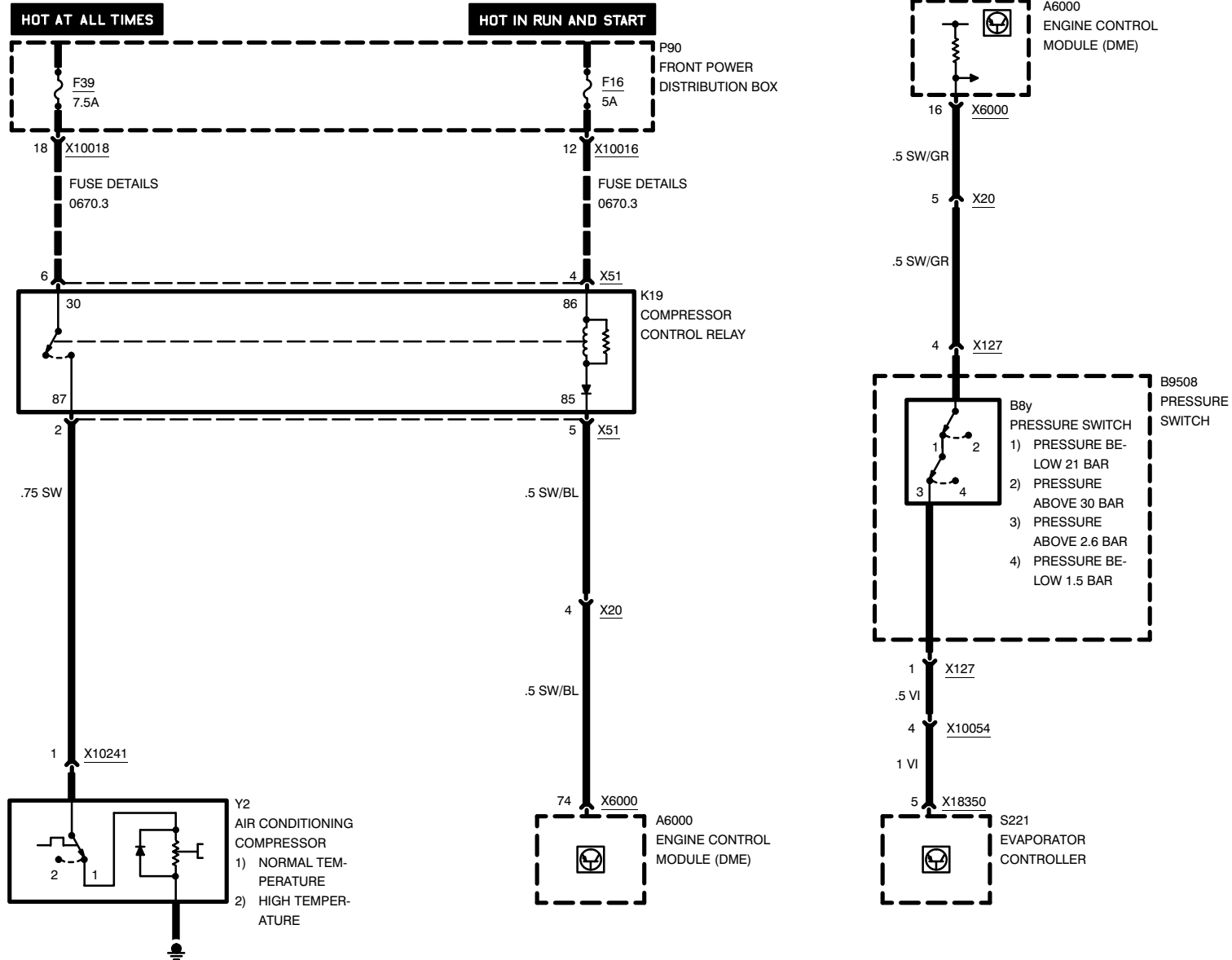
ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)



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

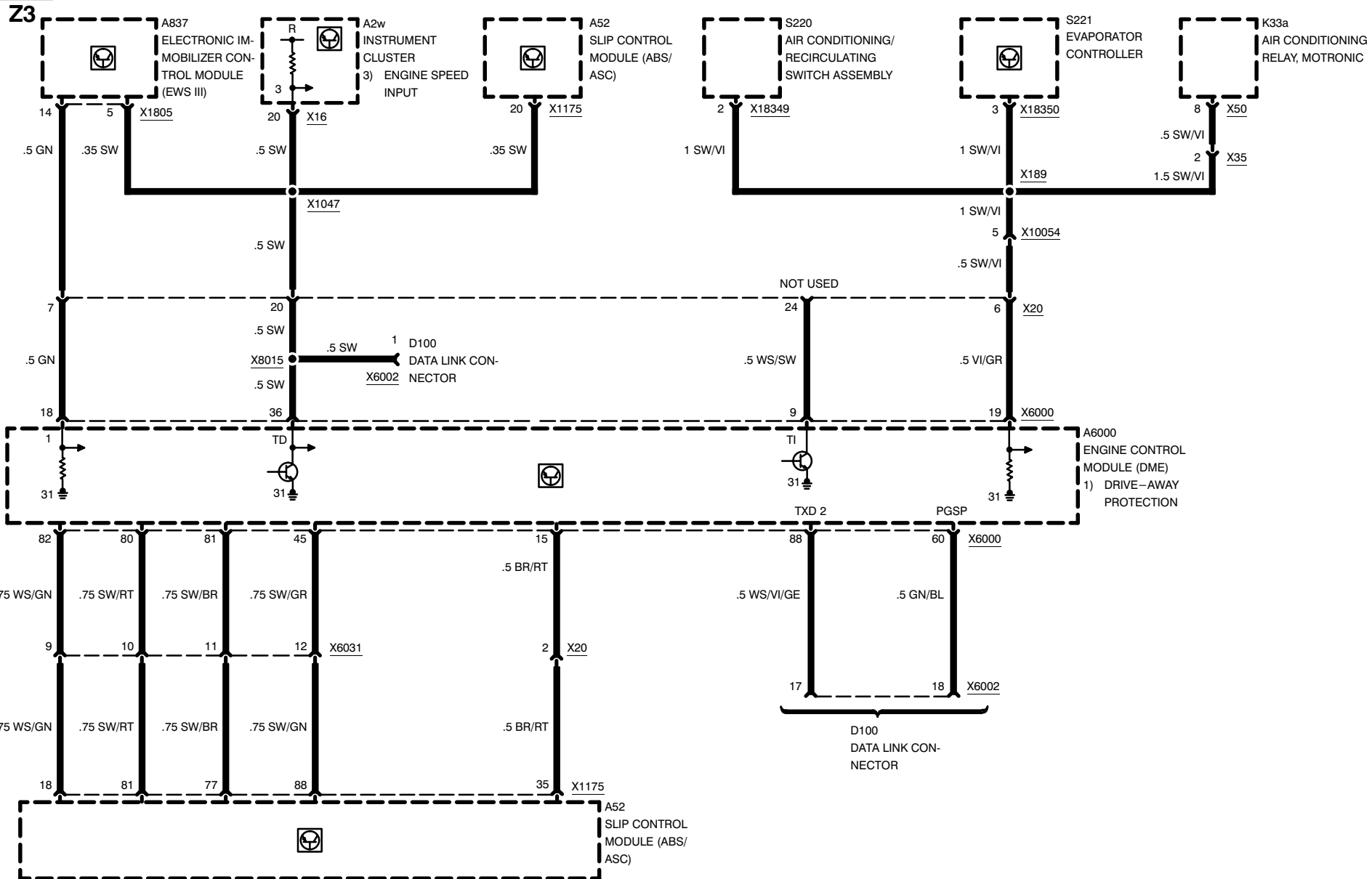


ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)





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



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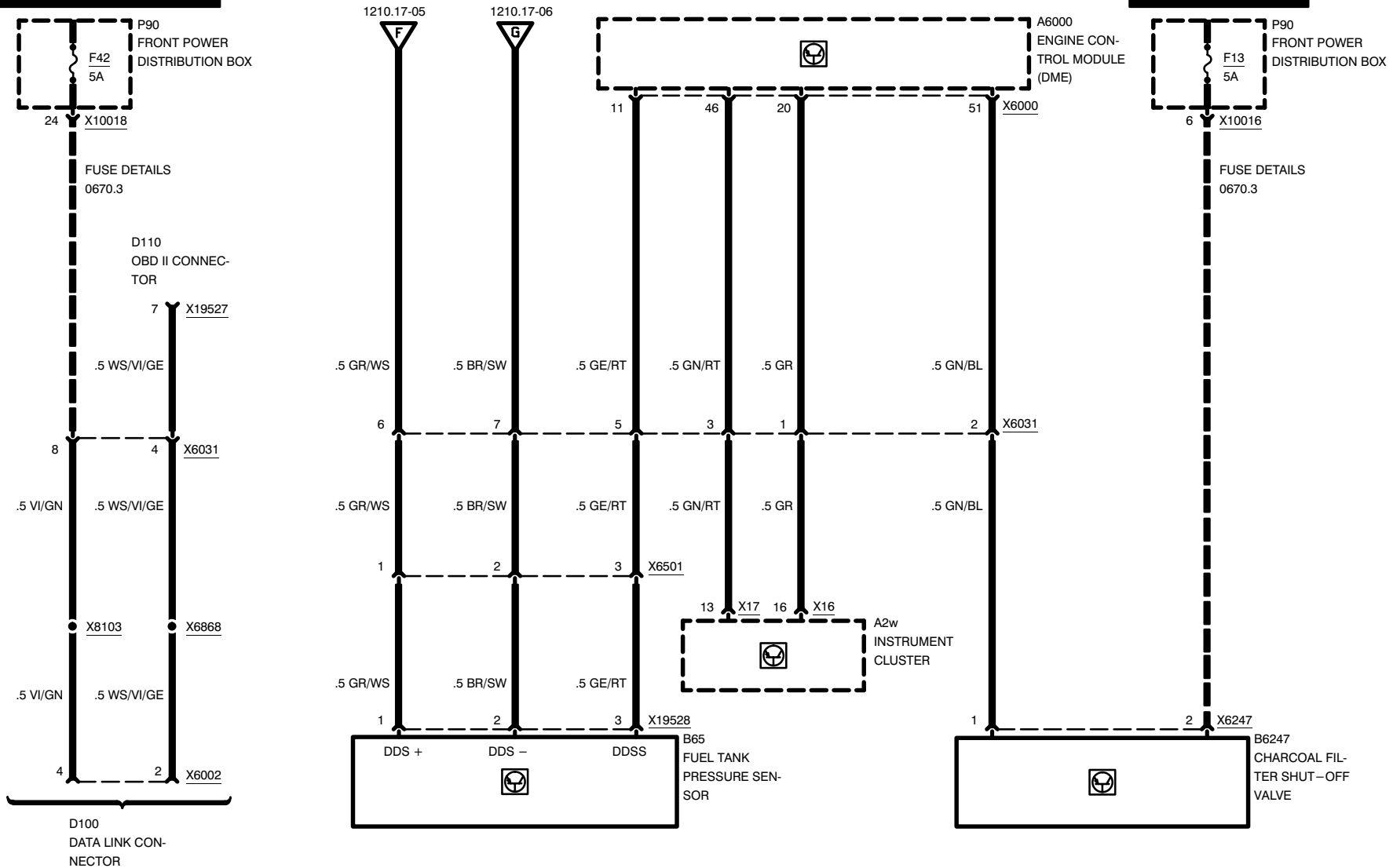
ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)

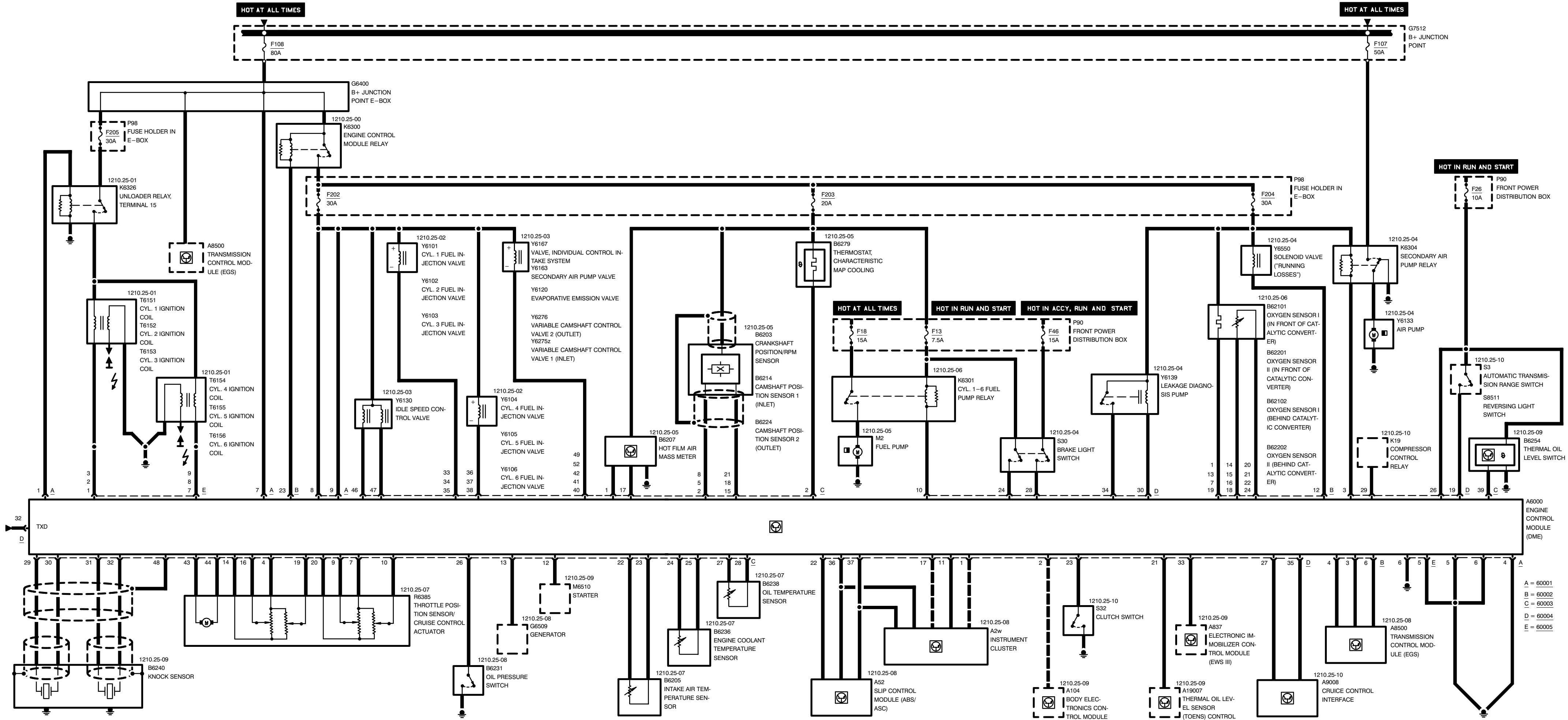
OBD II DIAGNOSIS

Z3

HOT IN ACCY RUN AND START

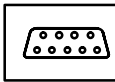
HOT IN RUN AND START







Z3

**Pin Assignments**

A = X60001 9 Pins, black

B = X60002 24 Pins, black

C = X60003 52 Pins, black

D = X60004 40 Pins, black

E = X60005 9 Pins, black

X60001

Pin	Type	Signal	Description/Function	Connection
1	A	15	Activate relay	Unloader relay terminal 15
2			Not used	
3			Not used	
4	M	31E	Ground	Ground point
5	M	31L	Ground	Ground point
6	M	31L	Ground	Ground point
7	E	30	Voltage supply	B+ junction point E-box
8	E	U_HR<2	Voltage supply	Fuse holder in E-box
9	E	U_HR<2	Voltage supply	Fuse holder in E-box

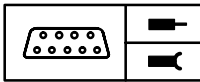
X60002

Pin	Type	Signal	Description/Function	Connection
1	M	T_LHV1	Oxygen sensor heating ground	Oxygen sensor 1 (in front of catalytic converter)
2			Not used	
3	E/A	D_CAN-L	CAN bus low	Transmission control module (EGS)
4	E/A	D_CAN-H	CAN bus high	Transmission control module (EGS)
5			Not used	
6	E/A	D_TXD2	Diagnosis	Transmission control module (EGS)
7	M	T_LHH1	Oxygen sensor heating ground	Oxygen sensor 1 (behind catalytic converter)
8			Not used	

E = Input, A = Output, M = Ground



Z3

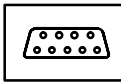
**Pin Assignments**

Pin	Type	Signal	Description/Function	Connection
9			Not used	
10			Not used	
11			Not used	
12	A	S_KKU	Activate valve	Solenoid valve (Running Losses)
13	M	T_LHV2	Oxygen sensor heating ground	Oxygen sensor 2 (in front of catalytic converter)
14	E	A_LSV1	Sensor signal	Oxygen sensor 1 (in front of catalytic converter)
15	E	A_LSV2	Sensor signal	Oxygen sensor 2 (in front of catalytic converter)
16	E	A_LSH1	Sensor signal	Oxygen sensor 1 (behind catalytic converter)
17			Not used	
18	E	A_LSH2	Sensor signal	Oxygen sensor 2 (behind catalytic converter)
19	M	T_LHH2	Oxygen sensor heating ground	Oxygen sensor 2 (behind catalytic converter)
20	M	M_LSV1	Signal ground	Oxygen sensor 1 (in front of catalytic converter)
21	M	M_LSV2	Signal ground	Oxygen sensor 2 (in front of catalytic converter)
22	M	M_LSH1	Signal ground	Oxygen sensor 1 (behind catalytic converter)
23	A	S_HR	Activate relay	Engine control module relay
24	M	M_LSH2	Signal ground	Oxygen sensor 2 (behind catalytic converter)

X60003

Pin	Type	Signal	Description/Function	Connection
1	E	A_HFM	Signal air mass meter	Hot film air mass meter
2	E	P_NWGA1	Signal camshaft position	Camshaft position sensor 2 (outlet)
3			Not used	
4	A	U_DKFW1	Voltage supply	Throttle position sensor 1

E = Input, A = Output, M = Ground



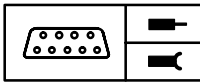
Pin Assignments

Pin	Type	Signal	Description/Function	Connection
5	E	P_NWGE1	Signal camshaft position	Camshaft position sensor 1 (inlet)
6			Not used	
7	A	U_DKFW2	Voltage supply	Throttle position sensor 2
8	E	P_KWG	Signal crankshaft position	Crankshaft position sensor
9	E	A_FWG2	Throttle position signal	Throttle position sensor 2 (cruise control)
10	E	A_DKG2	Throttle position signal	Throttle position sensor 2 (DME)
11			Not used	
12	E	S_30H	Start signal	Starter
13	E	S_61-1	Charging signal	Generator
14	M	M_DKFW1	Ground	Throttle position sensor 1
15	M	M_NWGA1	Ground	Camshaft position sensor 2 (outlet)
16	E	A_FWG1	Throttle position signal	Throttle position sensor 1 (cruise control)
17	M	M_HFM	Ground	Hot film air massmeter
18	M	M_NWGE1	Ground	Crankshaft position sensor 1 (inlet)
19	E	A_DKG1	Throttle position signal	Throttle position sensor 1 (DME)
20	M	M_DKFW2	Ground	Throttle position sensor 2
21	M	M_KWG	Ground	Crankshaft position sensor
22	E	A_TANS	Temperature signal	Intake air temperature sensor
23	M	M_TANS	Ground	Intake air temperature sensor
24	E	A_TMOT	Temperature signal	Engine coolant temperature sensor
25	M	M_TMOT	Ground	Engine coolant temperature sensor
26	E	A_OLD	Pressure signal	Oil pressure switch
27	E	A_TOEL	Temperature signal	Oil temperature sensor
28	M	M_OTF	Ground	Oil temperature sensor
29	E	A_KS1A	Cyl. 1-3 knock sensor	Knock sensor
30	E	A_KS1B	Cyl. 1-3 knock sensor	Knock sensor
31	E	A_KS2A	Cyl. 4-6 knock sensor	Knock sensor
32	E	A_KS2B	Cyl. 4-6 knock sensor	Knock sensor
33	A	P_EVZ1	Activate valve	Cyl. 1 fuel injection valve
34	A	P_EVZ2	Activate valve	Cyl. 2 fuel injection valve
35	A	P_EVZ3	Activate valve	Cyl. 3 fuel injection valve

E = Input, A = Output, M = Ground



Z3

**Pin Assignments**

Pin	Type	Signal	Description/Function	Connection
36	A	P_EVZ4	Activate valve	Cyl. 4 fuel injection valve
37	A	P_EVZ5	Activate valve	Cyl. 5 fuel injection valve
38	A	P_EVZ6	Activate valve	Cyl. 6 fuel injection valve
39	E	F_OLN	Level signal	Oil level sensor
40	A	T_NWE1	Activate valve	Variable camshaft control valve 1 (inlet)
41	A	T_NWA1	Activate valve	Variable camshaft control valve 2 (outlet)
42	A	T_TEV	Activate valve	Evaporative emission valve
43	A	T_MDK1	Activate motor	Cruise control actuator
44	A	T_MDK2	Activate motor	Cruise control actuator
45	A	S_KFK	Cooling signal	Thermostat, characteristic map cooling
46	A	T_LLFSS	CLOSE signal	Idle speed control valve
47	A	T_LLFSSO	OPEN signal	Idle speed control valve
48	M	W_KS	Ground	Shield knock sensor
49	A	S_DISA	Activate valve	Valve, individual control intake system
50			Not used	
51			Not used	
52	A	S_SLPV1	Activate valve	Secondary air pump valve

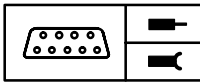
X60004

Pin	Type	Signal	Description/Function	Connection
1	A	61	Charging signal	Instrument cluster
2	A	30H	Start signal	Body electronics control module (ZKE IV)
3	A	SLP	Activate relay	Secondary air pump relay
4			Not used	
5			Not used	
6			Not used	
7			Not used	

E = Input, A = Output, M = Ground



Z3



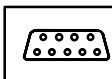
Pin Assignments

Pin	Type	Signal	Description/Function	Connection
8			Not used	
9			Not used	
10	A	EKP	Activate relay	Fuel pump relay
11	A	OELD	Oil pressure signal	Instrument cluster
12			Not used	
13			Not used	
14			Not used	
15			Not used	
16			Not used	
17	A	TD	Crankshaft RPM speed signal TD	Instrument cluster
18			Not used	
19	E	RFL	Reverse signal	Reversing light switch/ Automatic transmission range switch
20			Not used	
21	A	A-OELN	Oil level signal	Thermal oil level sensor (TOENS) control module
22	E	DFAHR	Speed signal right rear	ABS/ASC control module
23	E	KUPP	Clutch signal	Clutch switch
24	E	KL 54 ON	Brake signal	Brake light switch
25			Not used	
26	E	15A26	Terminal 15	Fuse 26
27	E	MFL	Cruise control signal	Cruise control interface
28	E	S_BLTS	Brake signal	Brake light switch
29	A	S_KOREL	Activate relay	Compressor control relay
30	A	LDPV	Activate valve	Leakage diagnosis pump
31			Not used	
32	E/A	TXDII	TXD diagnosis data link	Data link connector
33	E	EWSDME	Drive-away protection signal (code)	Electronic immobilizer control module (EWS III)
34	E	LDPS	Leakage signal	Leakage diagnosis pump
35	M	31	Ground	Cruise control interface
36	E/A	CAN+	CAN bus high	Instrument cluster, ABS/ASC control module

E = Input, A = Output, M = Ground



Z3

**Pin Assignments**

Pin	Type	Signal	Description/Function	Connection
37	E/A	CAN-	CAN bus low	Instrument cluster, ABS/ASC control module
38			Not used	
39			Not used	
40			Not used	

X60005

Pin	Type	Signal	Description/Function	Connection
1	A	P_ZSZ3	Ignition coil signal	Cyl. 3 ignition coil
2	A	P_ZSZ2	Ignition coil signal	Cyl. 2 ignition coil
3	A	P_ZSZ1	Ignition coil signal	Cyl. 1 ignition coil
4			Not used	
5	M	31L	Ground	Ground point
6	M	A_ZSR	Ground	Ground point
7	A	P_ZSZ6	Ignition coil signal	Cyl. 6 ignition coil
8	A	P_ZSZ5	Ignition coil signal	Cyl. 5 ignition coil
9	A	P_ZSZ4	Ignition coil signal	Cyl. 4 ignition coil

E = Input, A = Output, M = Ground

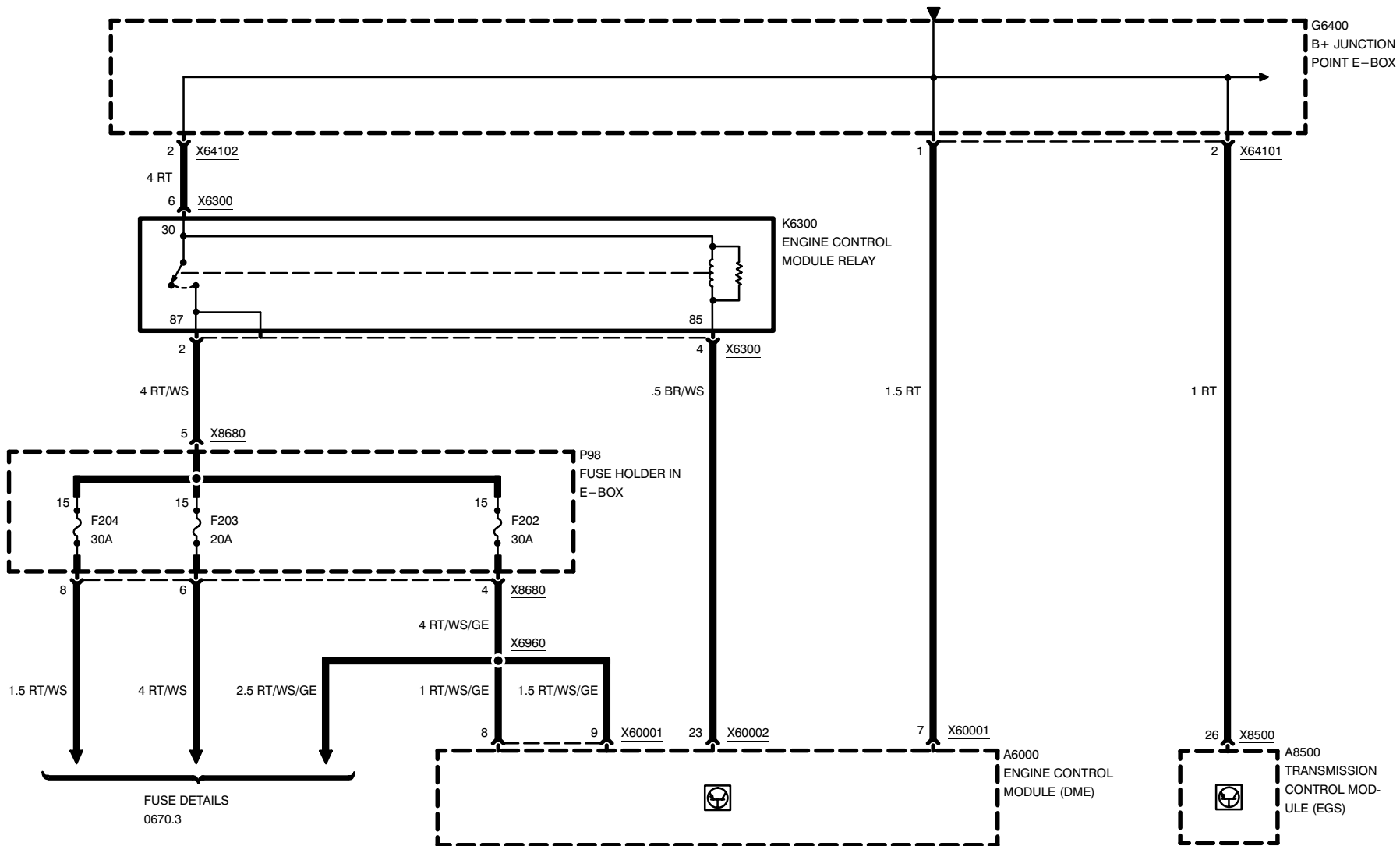


ENGINE CONTROL SYSTEM MS42.1 (6-CYLINDER M52)

POWER

HOT AT ALL TIMES

POWER DISTRIBUTION
0670.2



FUSE DETAILS
0670.3

A6000
ENGINE CONTROL
MODULE (DME)

A8500
TRANSMISSION
CONTROL MOD-
ULE (EGS)

09/98

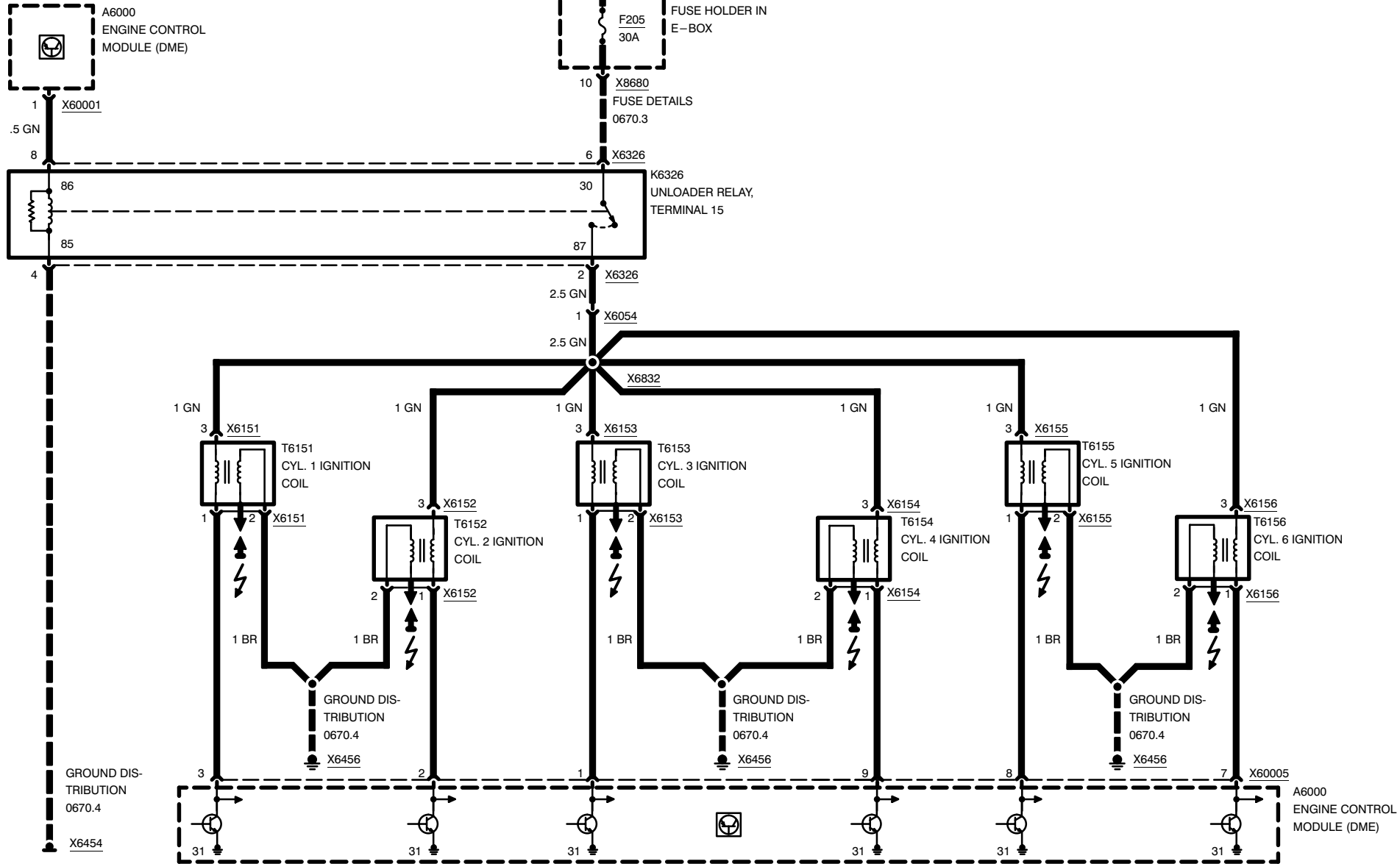
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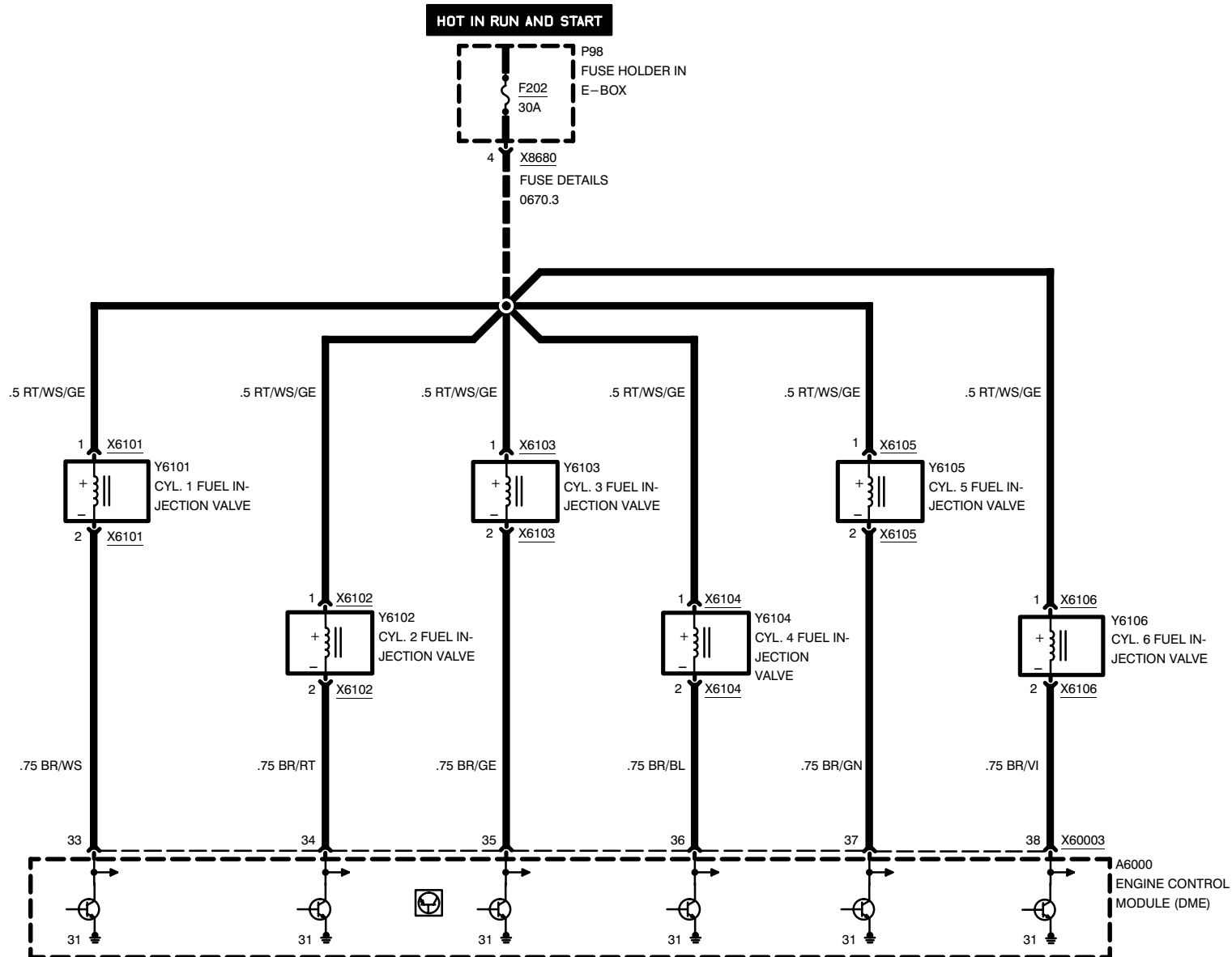
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ENGINE CONTROL SYSTEM MS42.1 (6-CYLINDER M52)

Z3



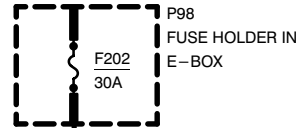




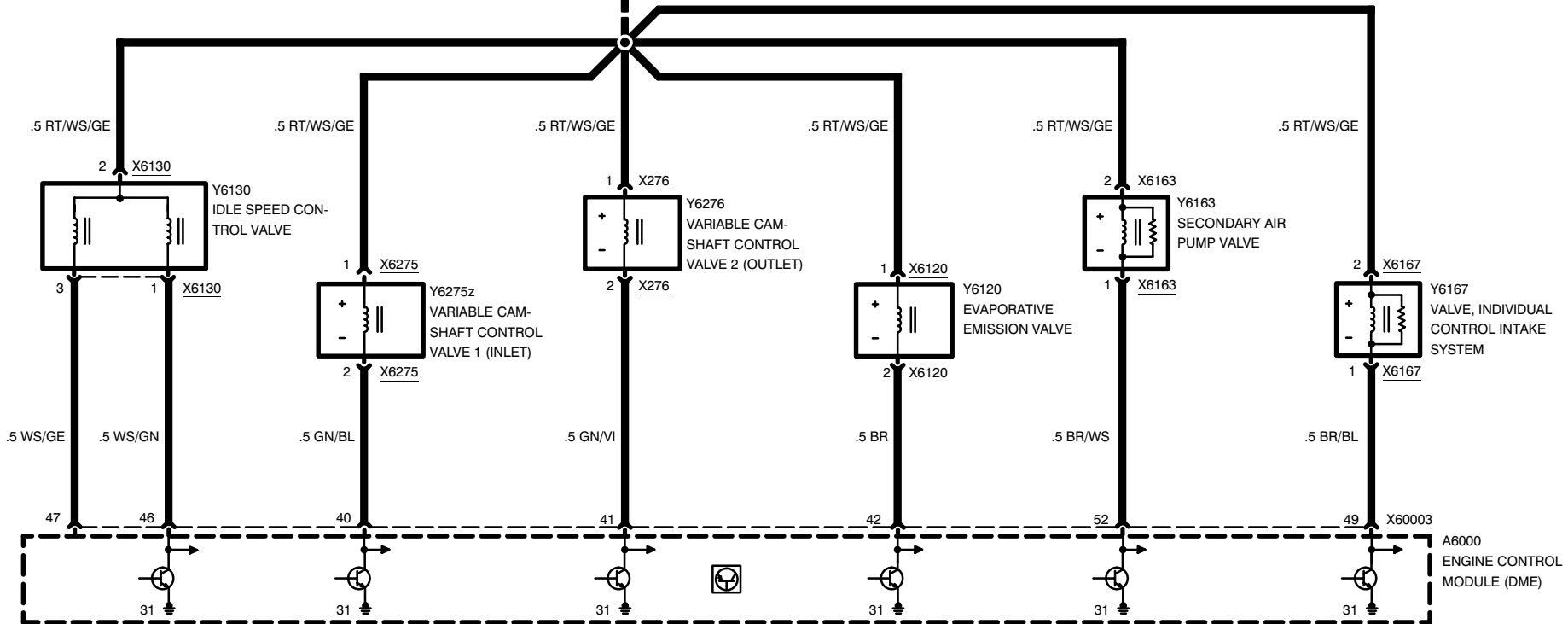
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ENGINE CONTROL SYSTEM MS42.1 (6-CYLINDER M52)

HOT IN RUN AND START



X8680
FUSE DETAILS
0670.3



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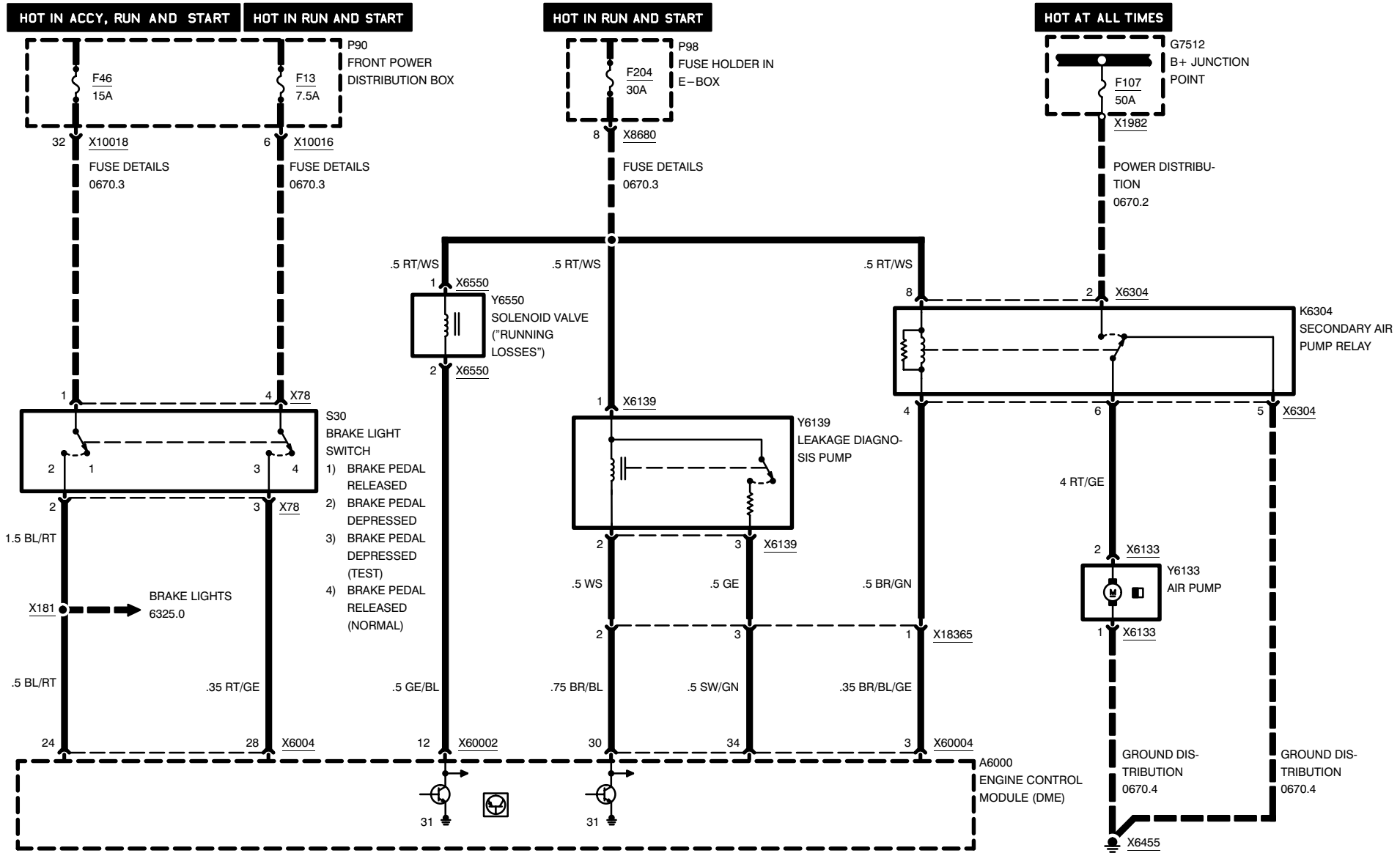
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ENGINE CONTROL SYSTEM MS42.1 (6-CYLINDER M52)

Z3



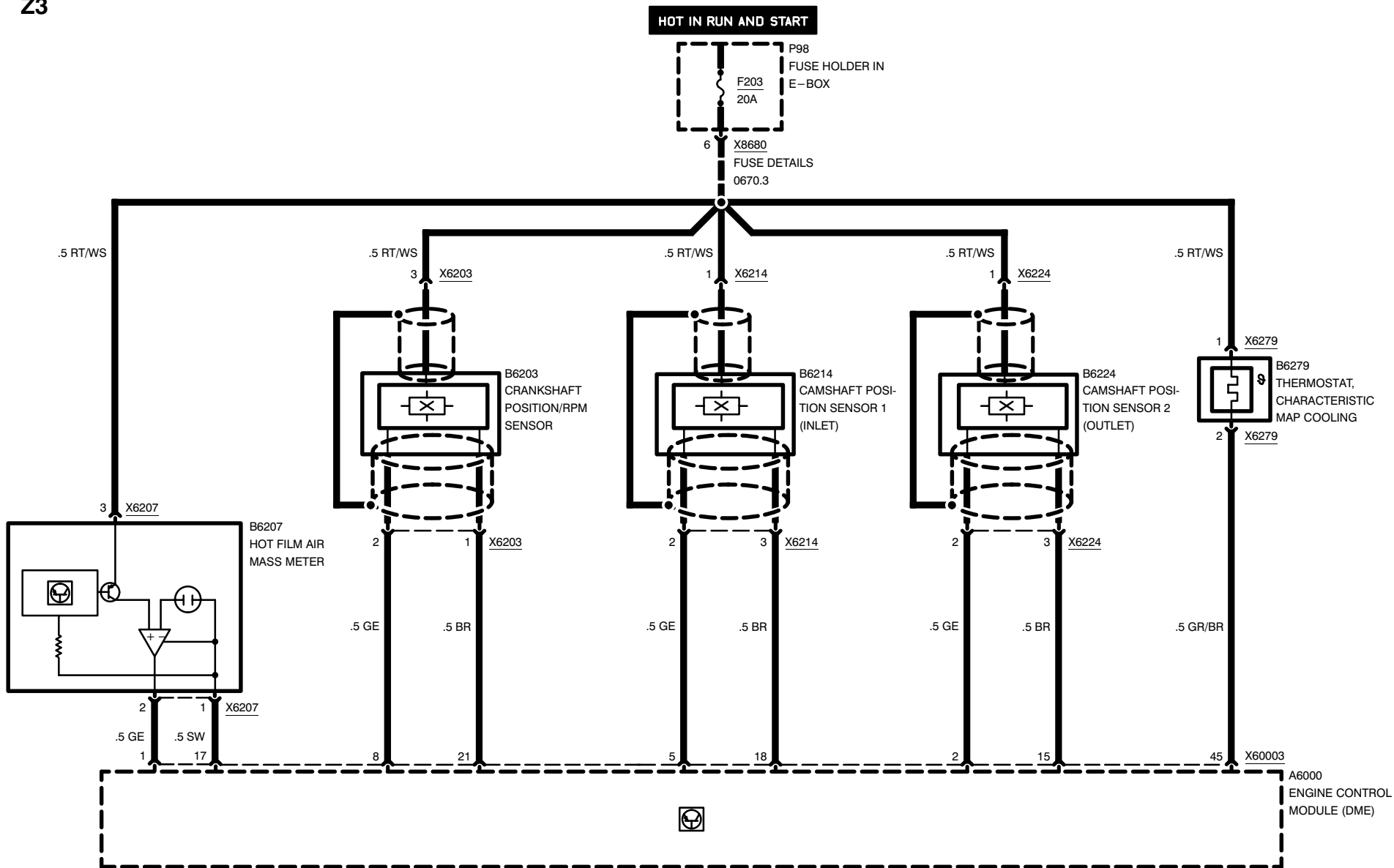
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ENGINE CONTROL SYSTEM MS42.1 (6-CYLINDER M52)

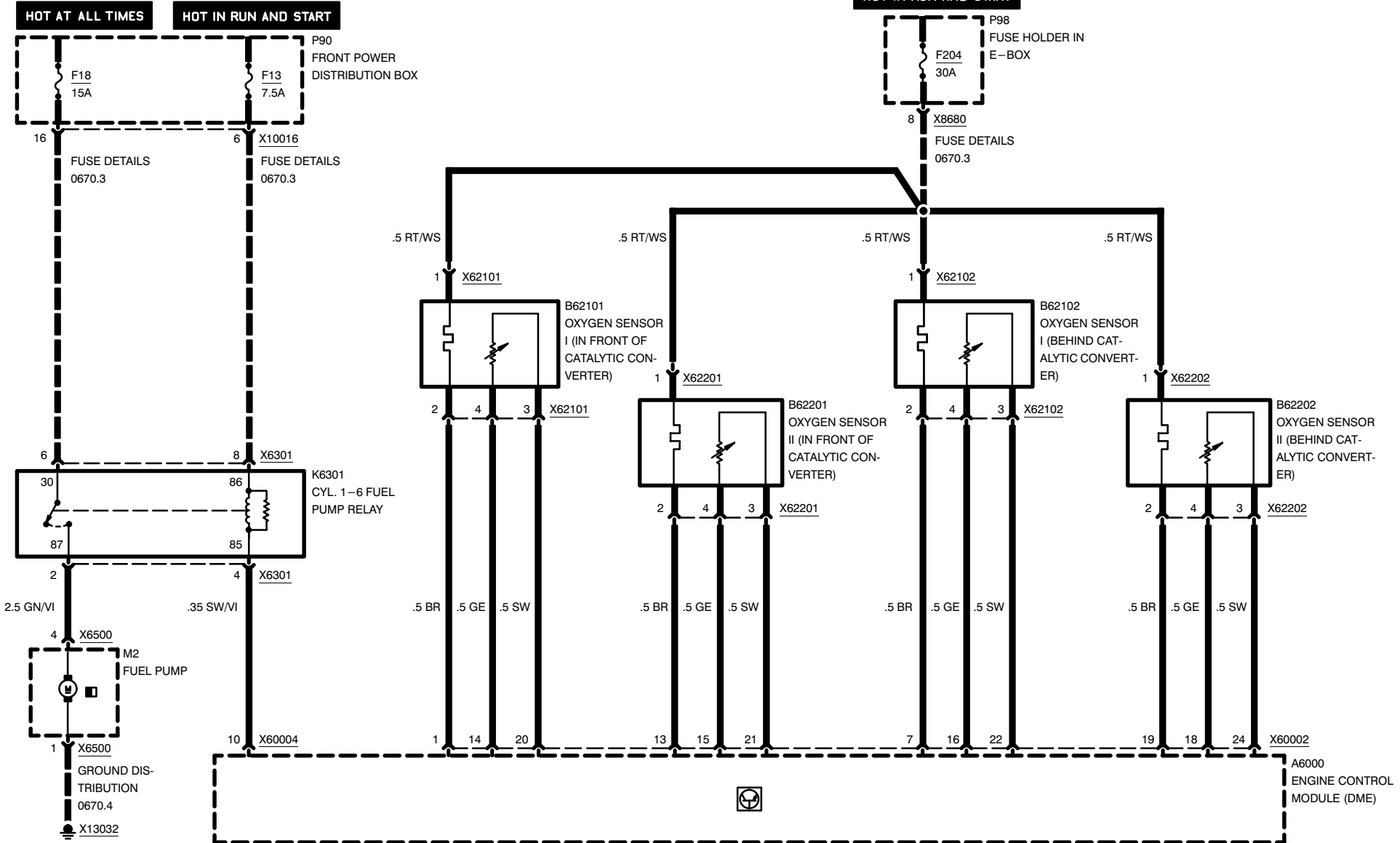
Z3





ENGINE CONTROL SYSTEM MS42.1 (6-CYLINDER M52)

Z3



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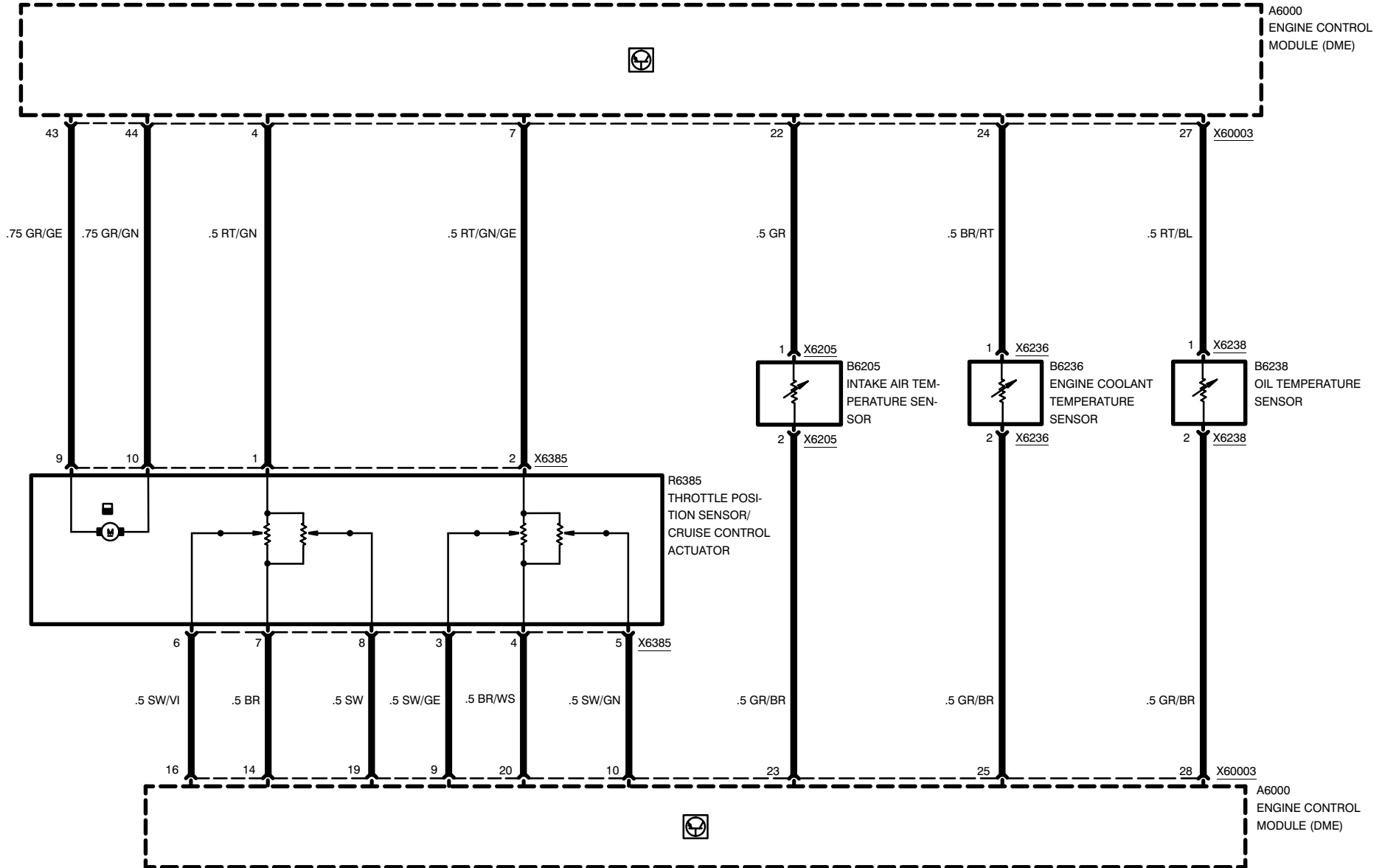
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ENGINE CONTROL SYSTEM MS42.1 (6-CYLINDER M52)

Z3

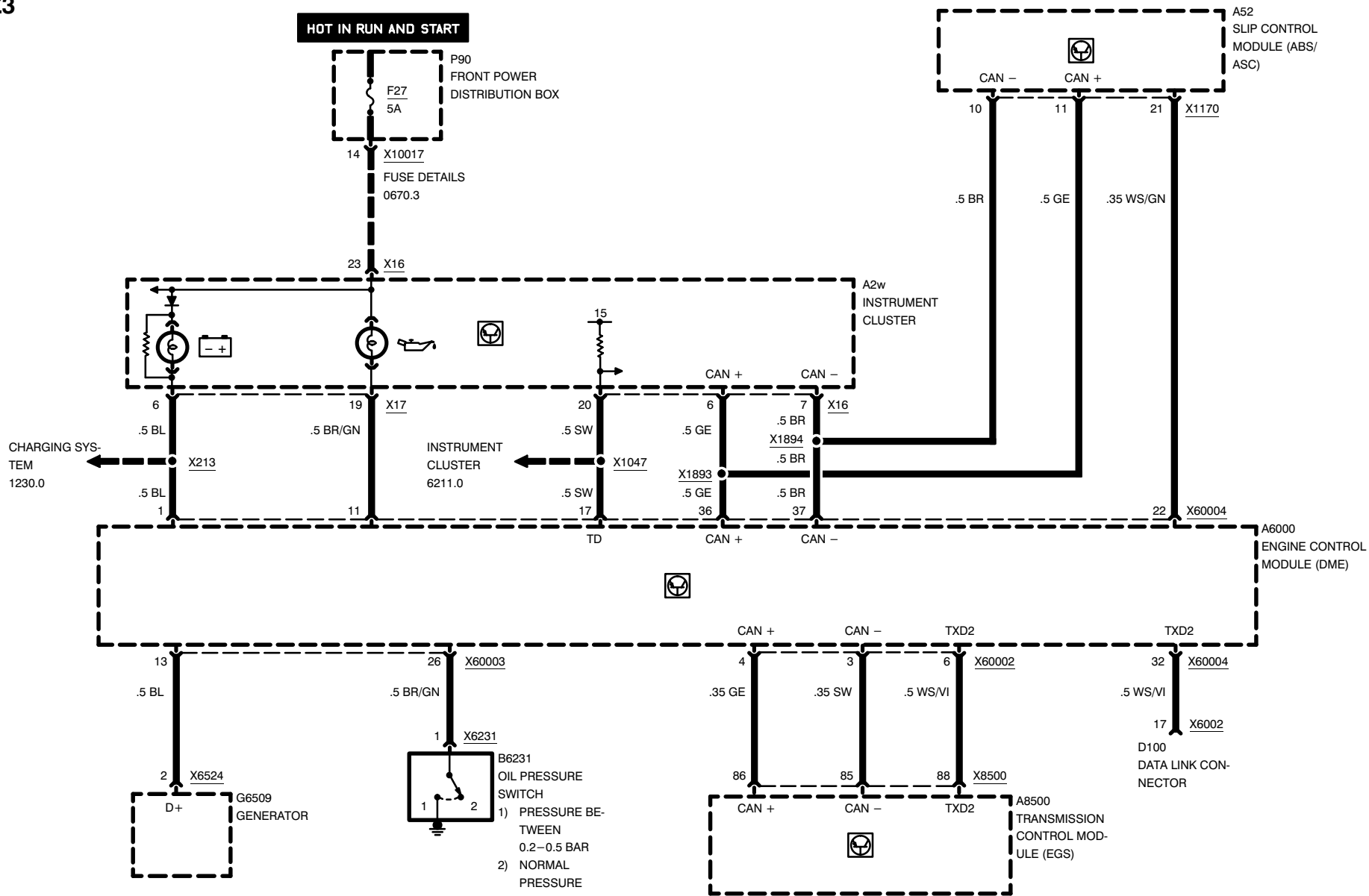


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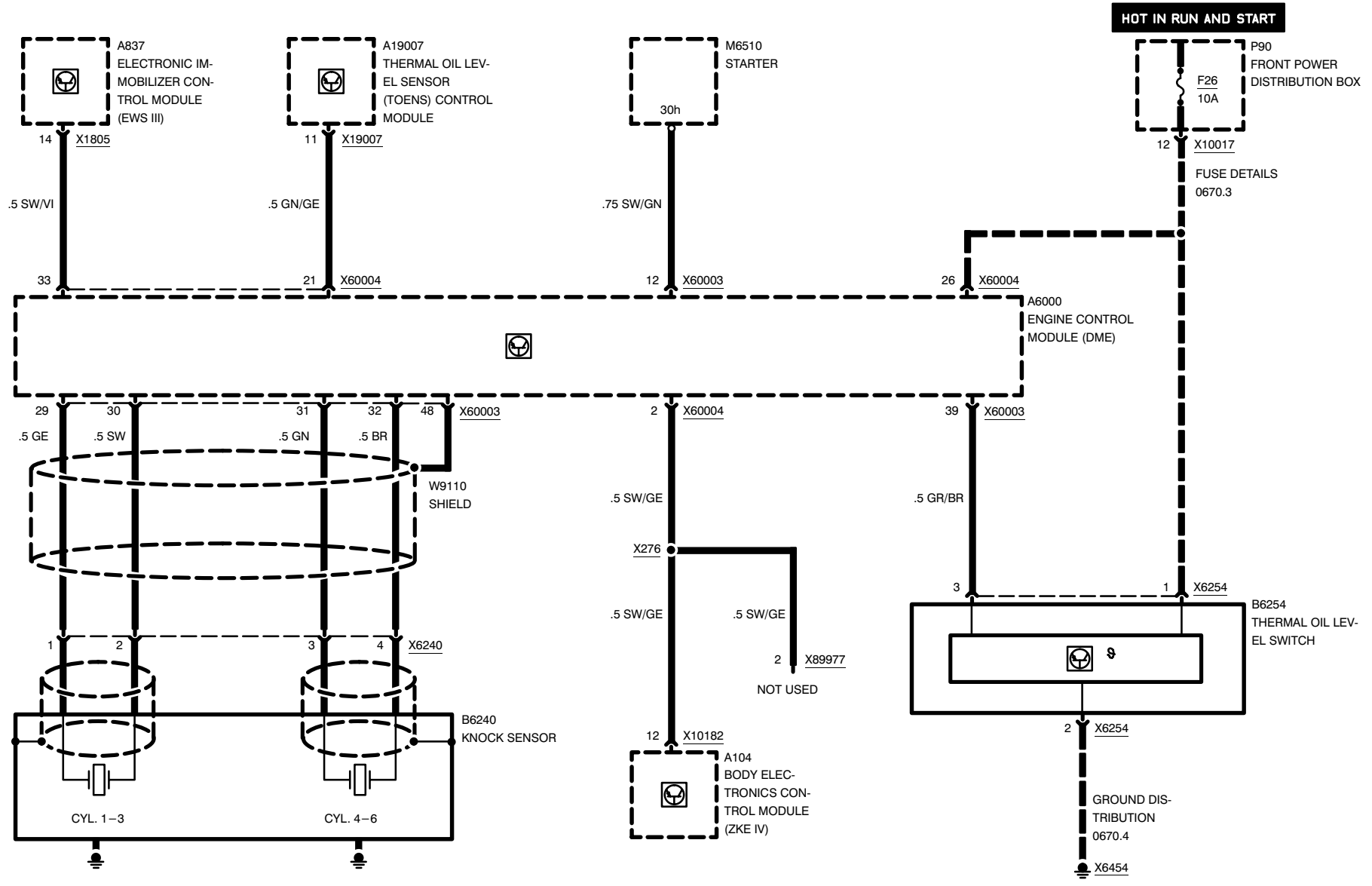
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ENGINE CONTROL SYSTEM MS42.1 (6-CYLINDER M52)





ENGINE CONTROL SYSTEM MS42.1 (6-CYLINDER M52)

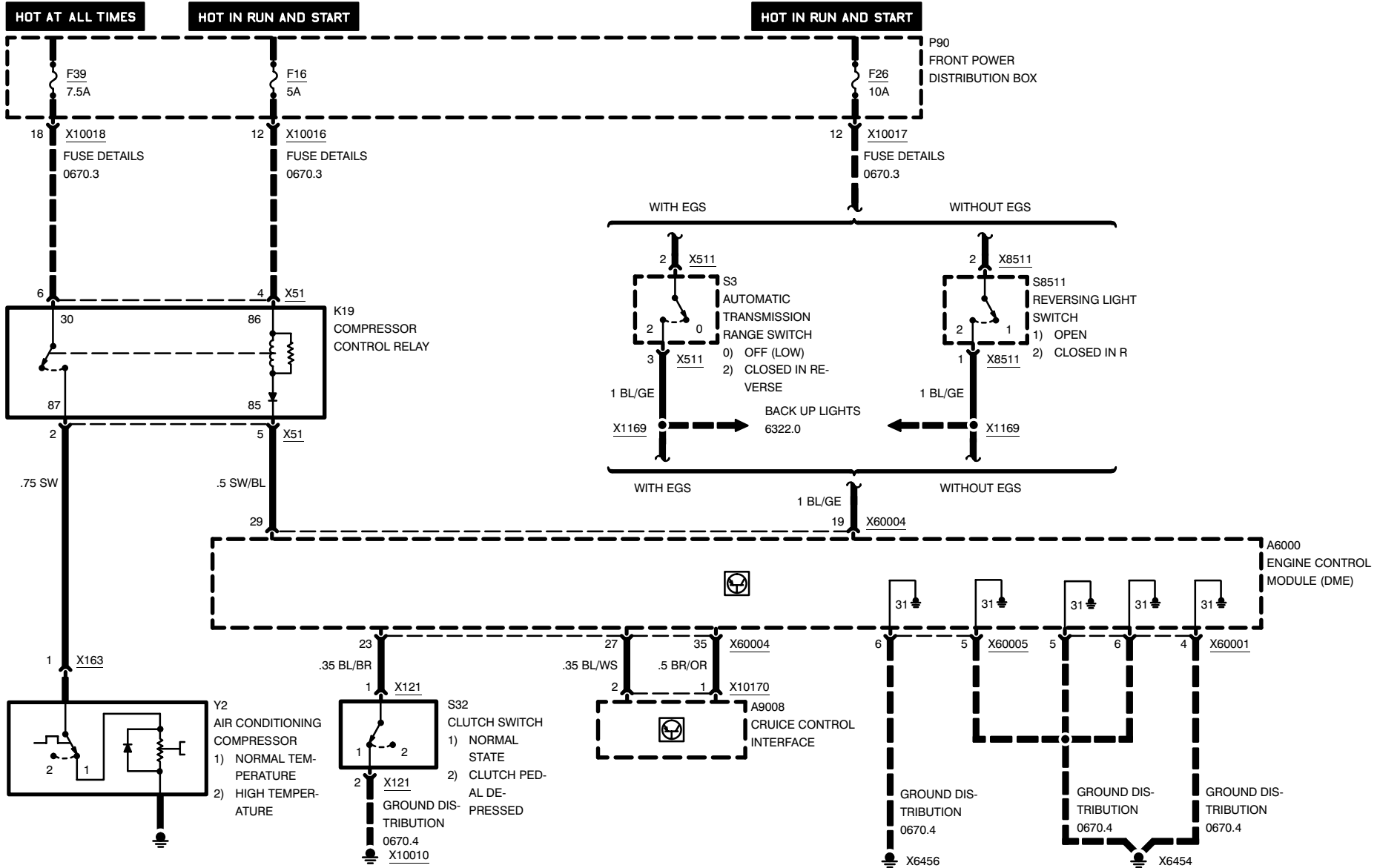


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1999



ENGINE CONTROL SYSTEM MS42.1 (6-CYLINDER M52)

Z3



09/98

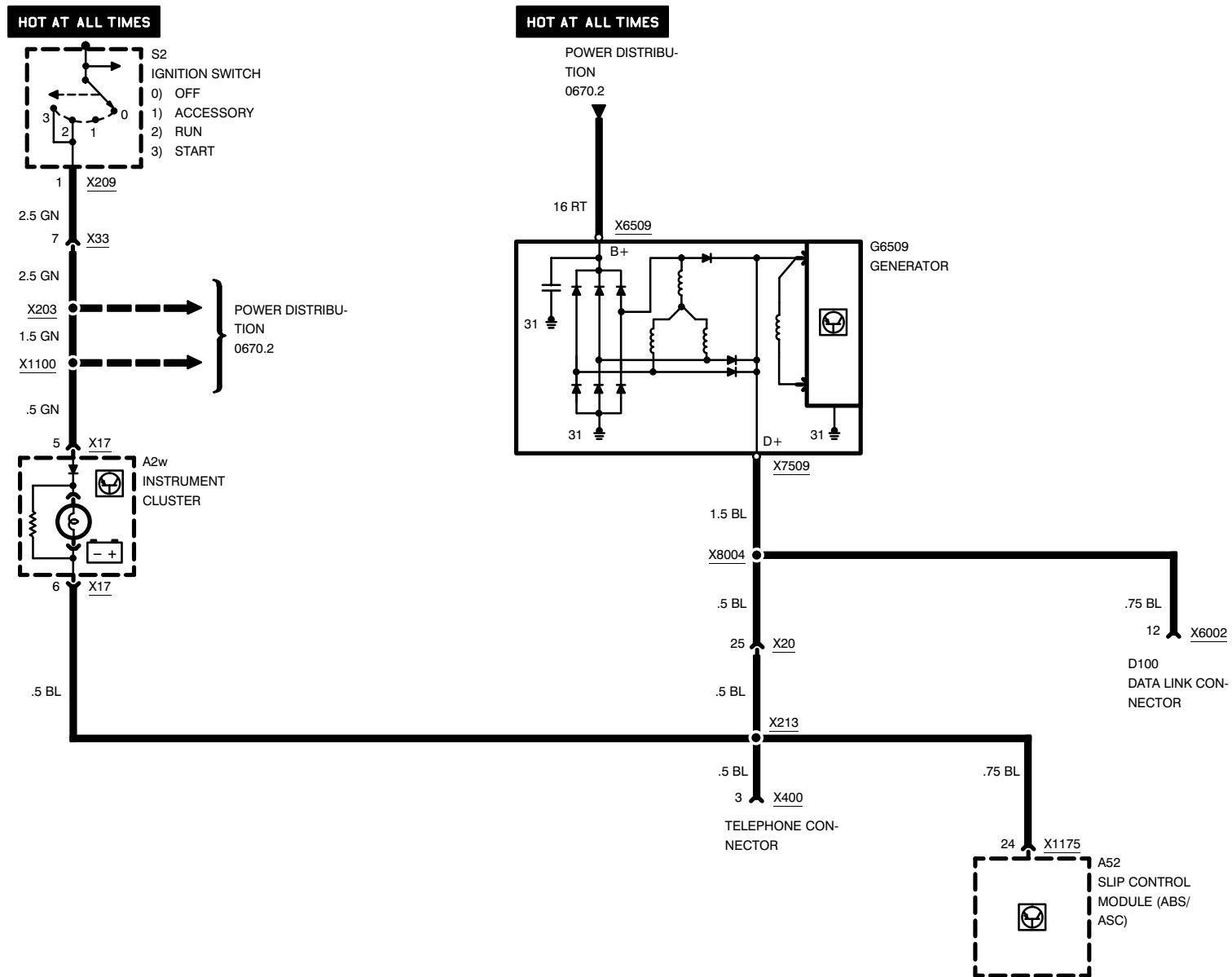
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1999



CHARGING SYSTEM

M VERSIONS



09/98

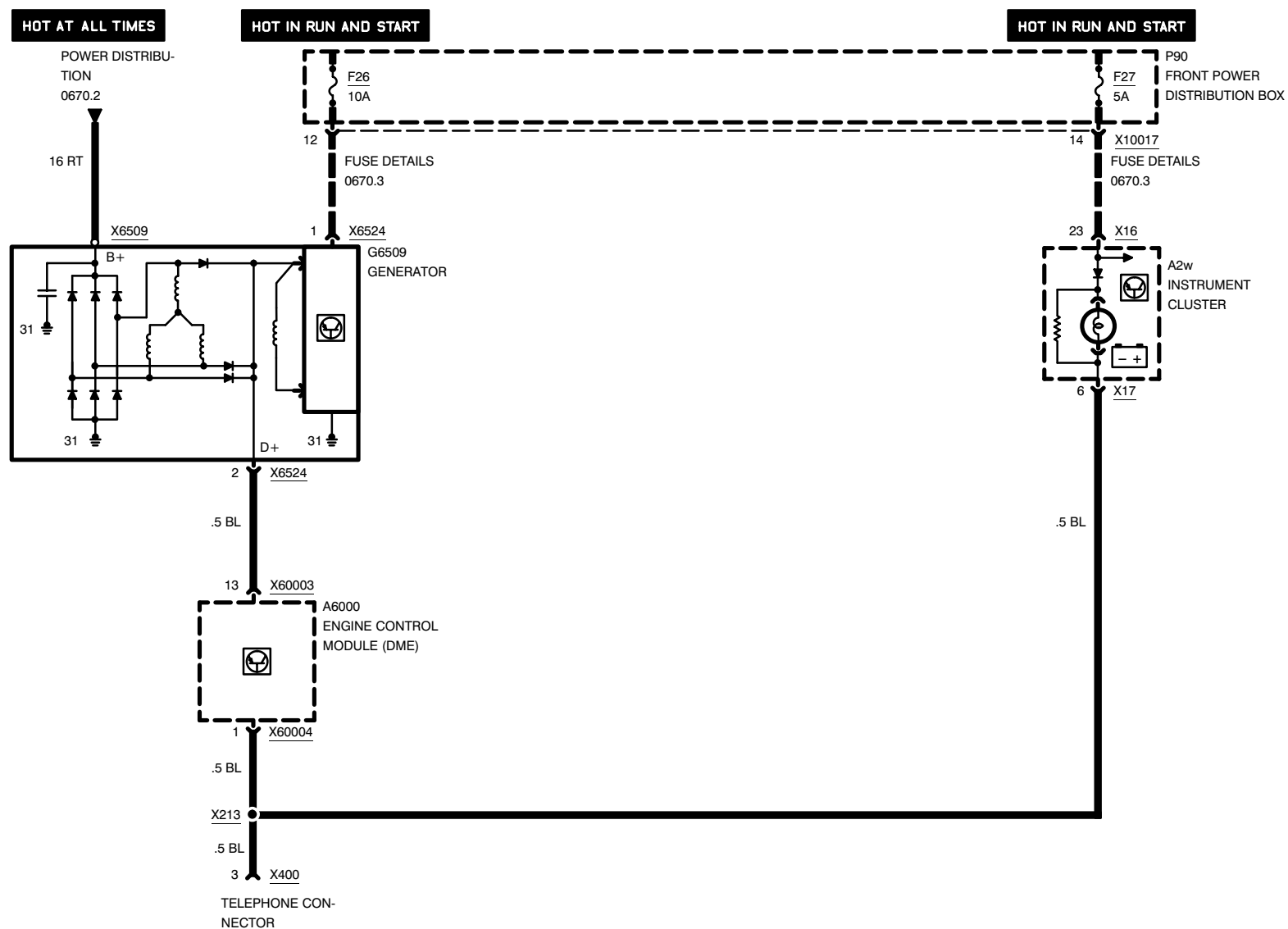
1230.0-00

1999



CHARGING SYSTEM

Z3 VERSIONS



09/98

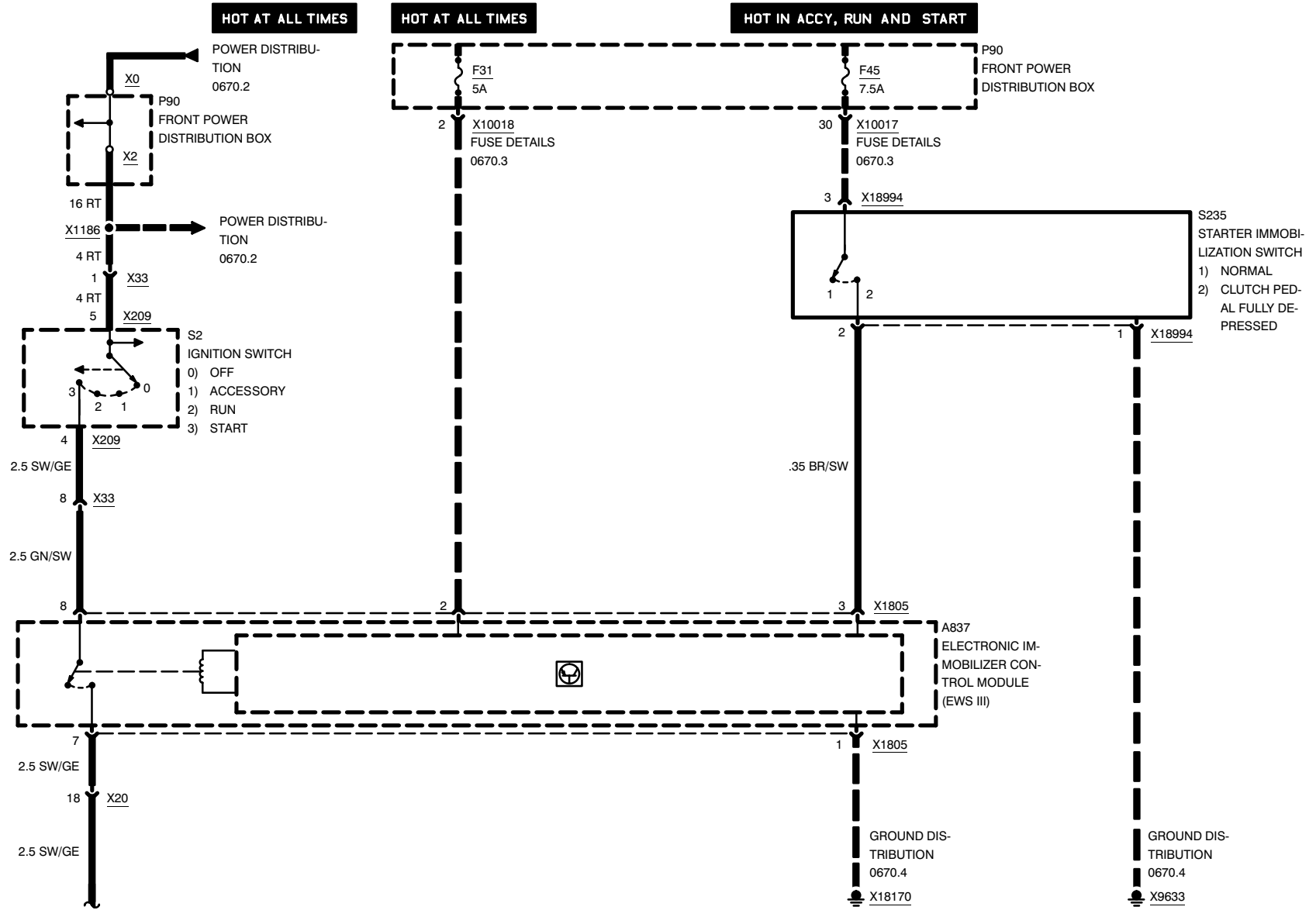
1230.0-01

1999



START

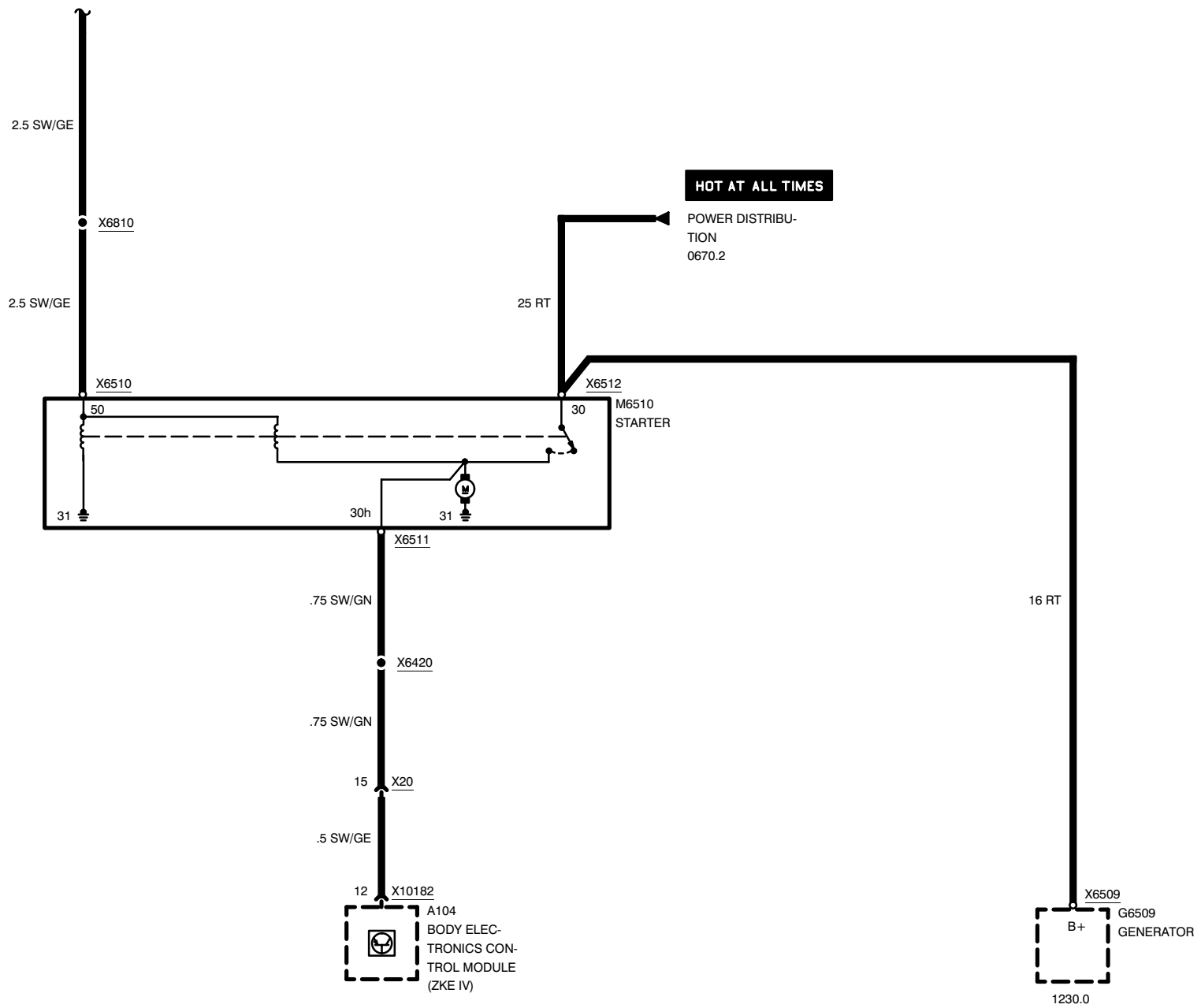
M VERSIONS



09/98

1240.0-00

1999



09/98

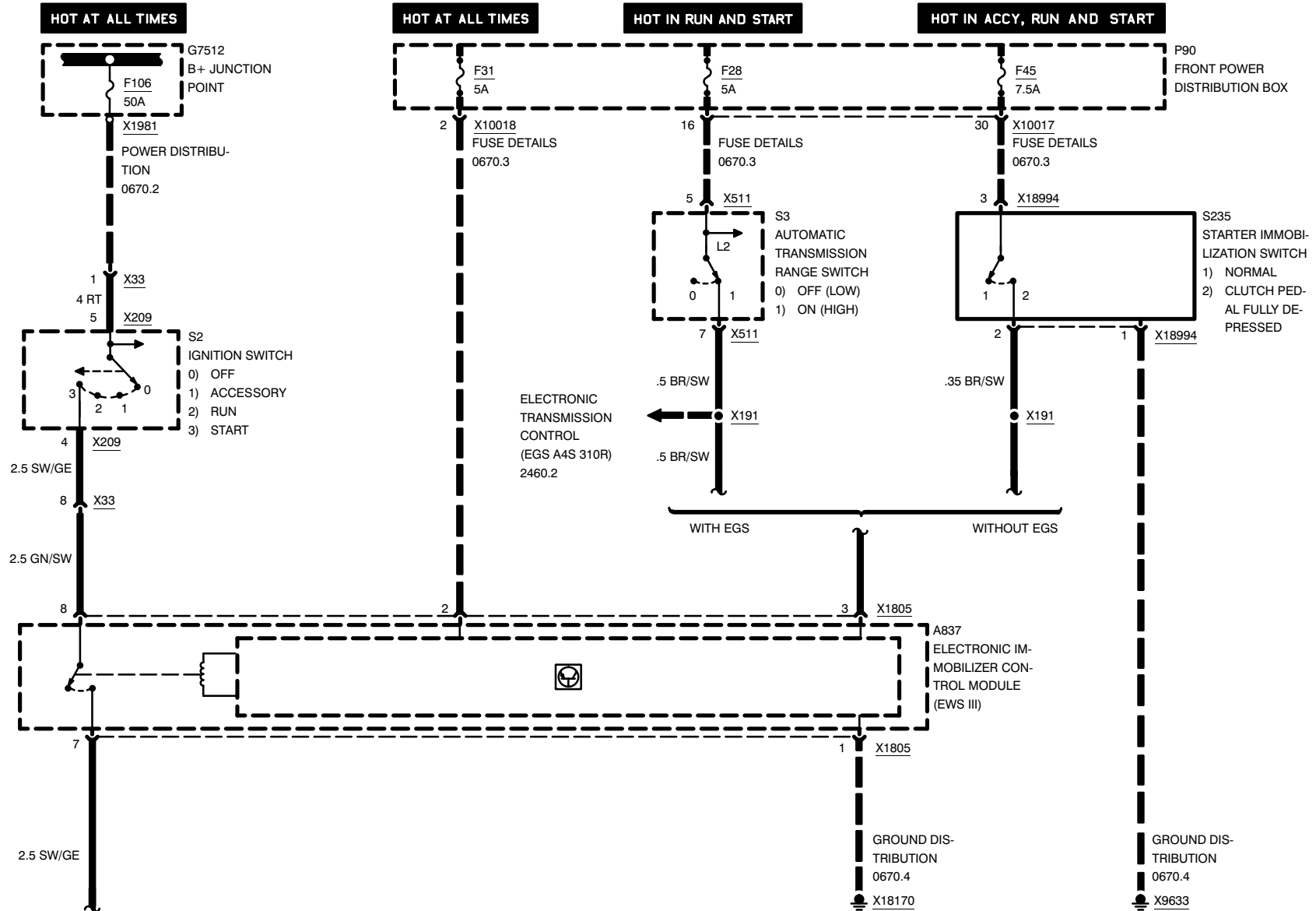
1240.0-01

1999



START

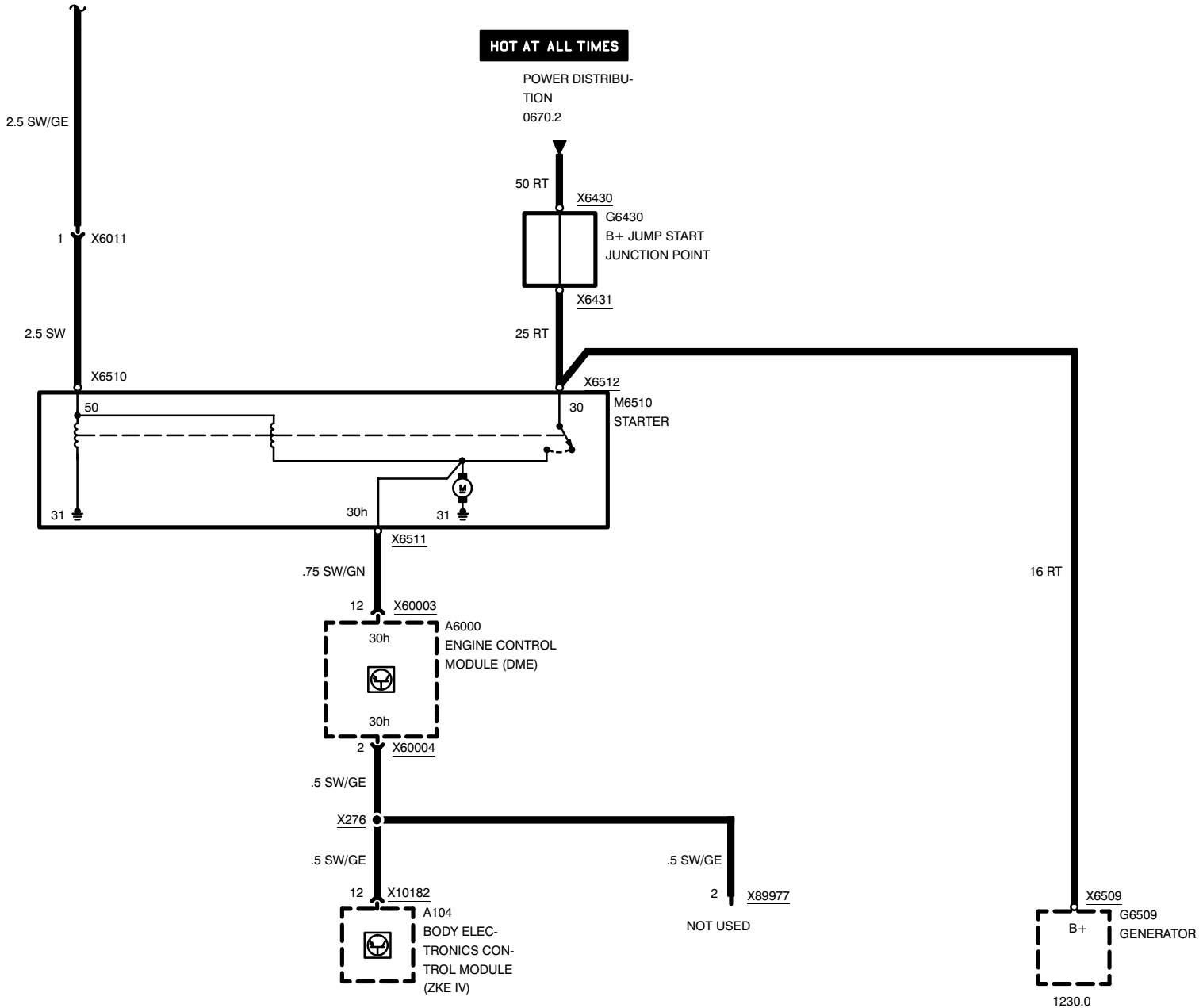
Z3 VERSIONS



09/98

1240.0-02

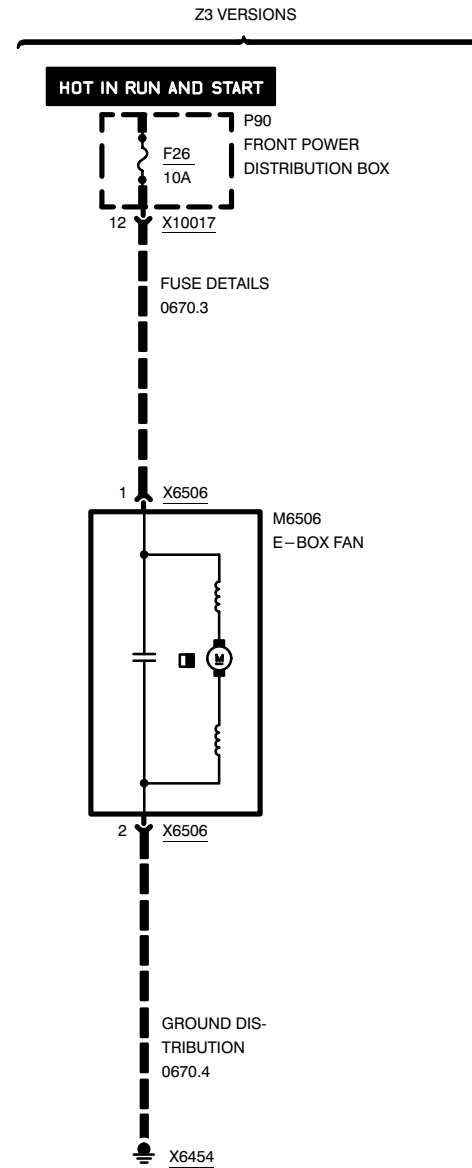
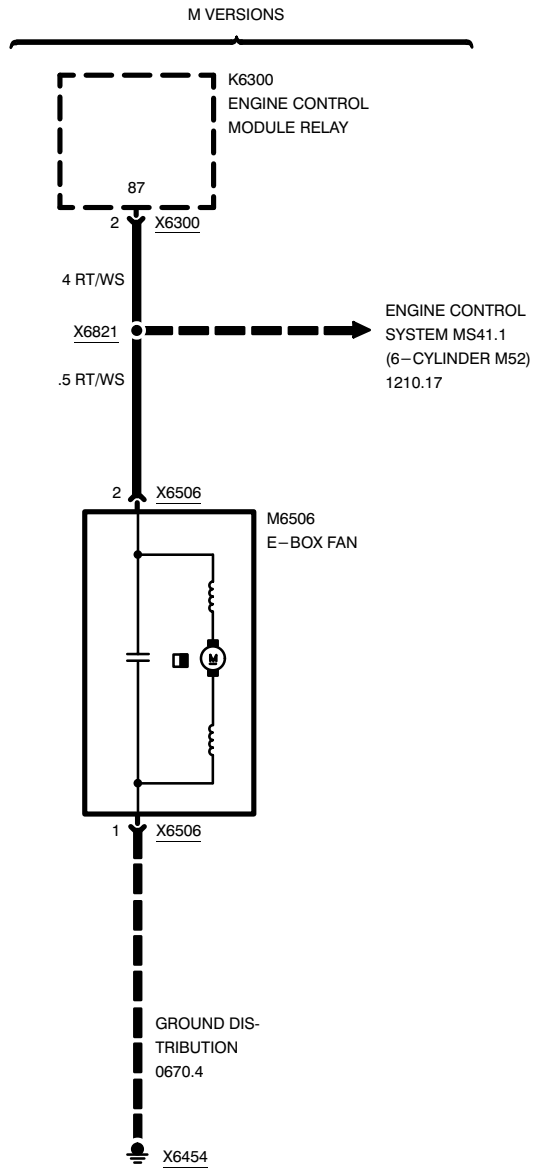
1999

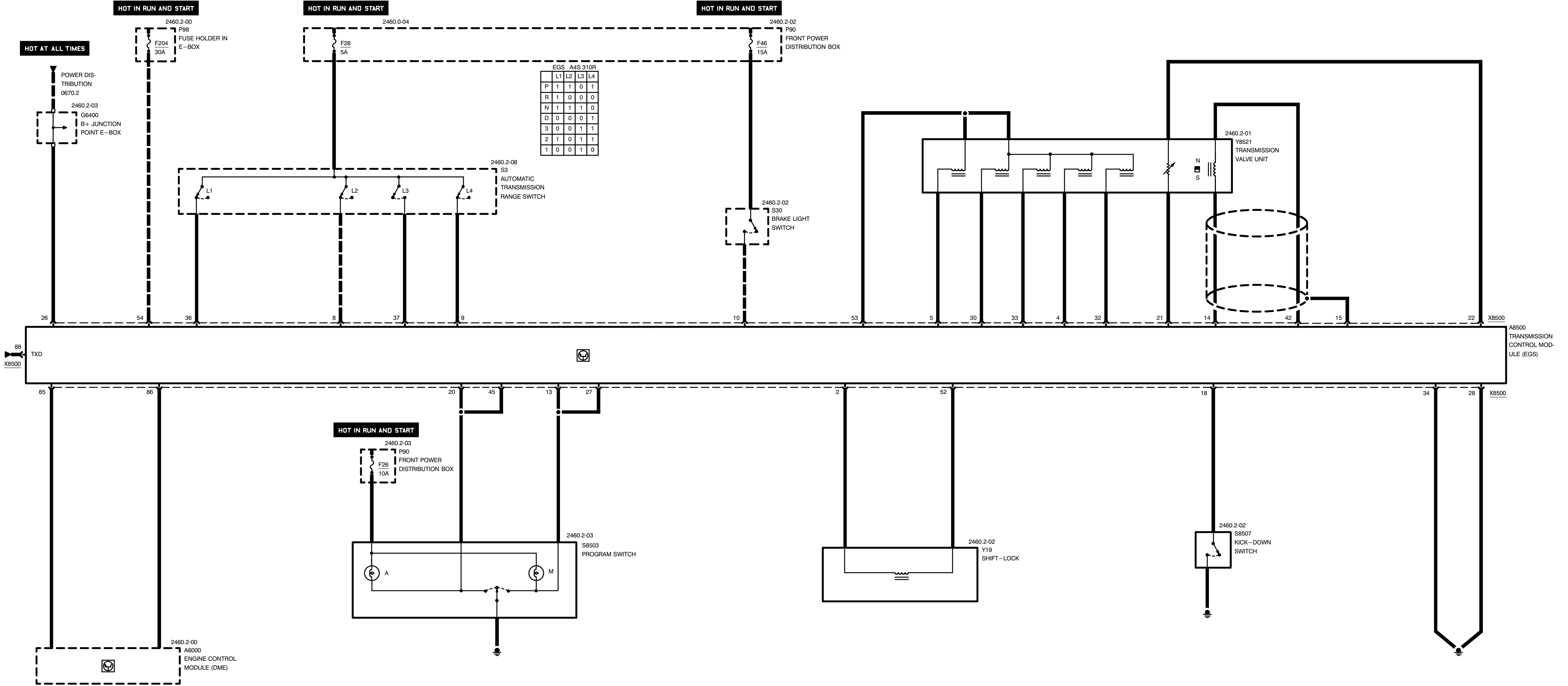


09/98 ————— 1240.0-03 ————— 1999



E-BOX FAN





EGS A4S 310R

	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

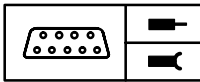
88 TXD
X8500

X8500
A8500
TRANSMISSION
CONTROL MOD-
ULE (EGS)

X8500



Z3



Pin Assignments

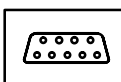
X8500

Pin	Type	Description/Function	Connection
10		Not used	
11	M	Ground	Shift-lock
12		Not used	
13	A	Solenoid valve 3 control (-)	Transmission valve unit
14	A	Hydraulic pressure regulator control (-)	Transmission valve unit
15		Not used	
16		Not used	
17	E	Gear range signal L2	Automatic transmission range switch
18	E	Gear range signal L4	Automatic transmission range switch
19	E	Brake pedal position	Brake light switch
20		Not used	
21		Not used	
22	E	Manual mode signal	Program switch
23	E	Output speed (-)	Transmission valve unit
24	M	Ground for shield	Shield for speed sensor
25		Not used	
26		Not used	
27	E	Kick-down signal	Kick-down switch
28		Not used	
29	E	Automatic mode signal	Program switch
30	E	Oil temperature signal (-)	Transmission valve unit
31	E	Oil temperature signal (+)	Transmission valve unit
32		Not used	
33		Not used	
34		Not used	
35	E	Battery voltage	B+ junction point E-box
36	A	M-program indication	Program switch
37	M	Ground	Ground point
38		Not used	
39	A	Solenoid valve 1 control (-)	Transmission valve unit

E = Input, A = Output, M = Ground



Z3



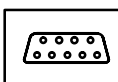
Pin Assignments

Pin	Type	Description/Function	Connection
40		Not used	
41	A	Torque converter clutch solenoid valve control (-)	Transmission valve unit
42	A	Solenoid valve 2 control (-)	Transmission valve unit
43	M	Ground	Ground point
44		Not used	
45	E	Gear range signal L1	Automatic transmission range switch
46	E	Gear range signal L3	Automatic transmission range switch
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51	E	Output speed (+)	Transmission valve unit
52		Not used	
53		Not used	
54	A	A-program indication	Program switch
55		Not used	
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	
61	A	Shift-lock solenoid control	Shift-lock
62	A	Voltage solenoid valves	Transmission valve unit
63	E	Voltage supply	Fuse 204
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	

E = Input, A = Output, M = Ground



Z3



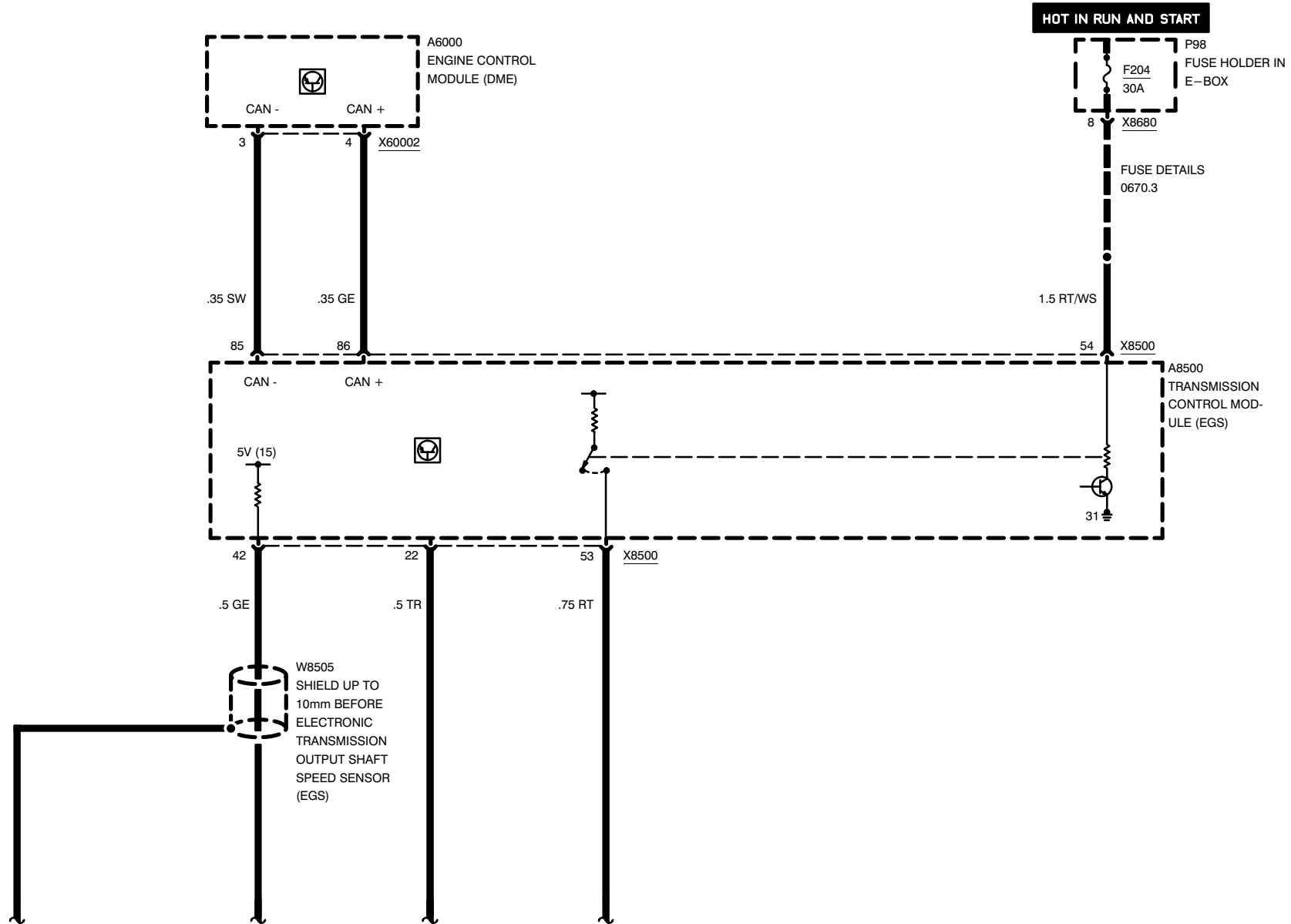
Pin Assignments

Pin	Type	Description/Function	Connection
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		Not used	
88		Not used	
89		Not used	
90		Not used	
91		Not used	
92		Not used	
93		Not used	
94	E/A	CAN-LOW	Engine control module
95	E/A	CAN-HIGH	Engine control module
96		Not used	
97	E/A	TxD diagnostic data link	Engine control module

E = Input, A = Output, M = Ground



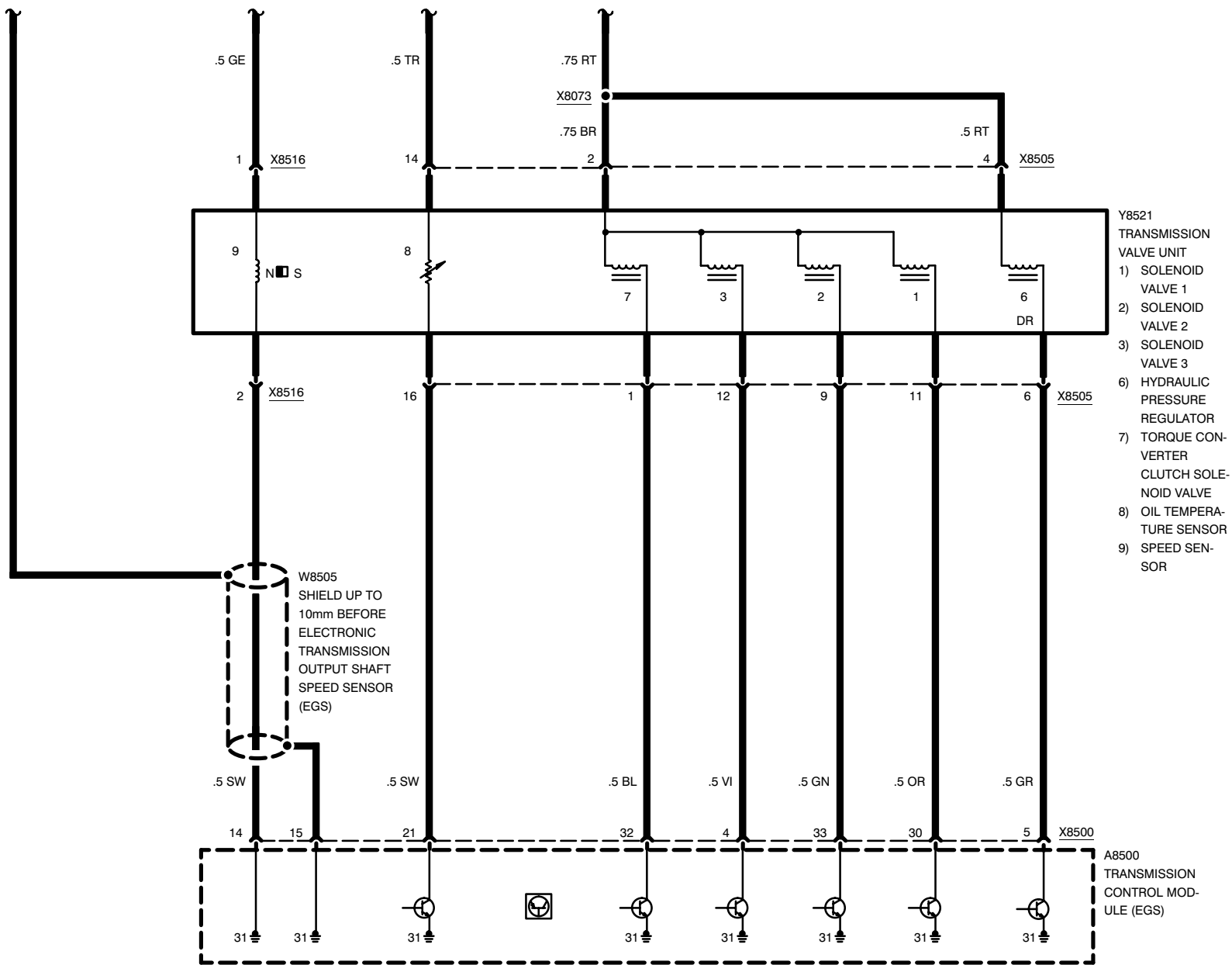
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



09/98

2460.2-00

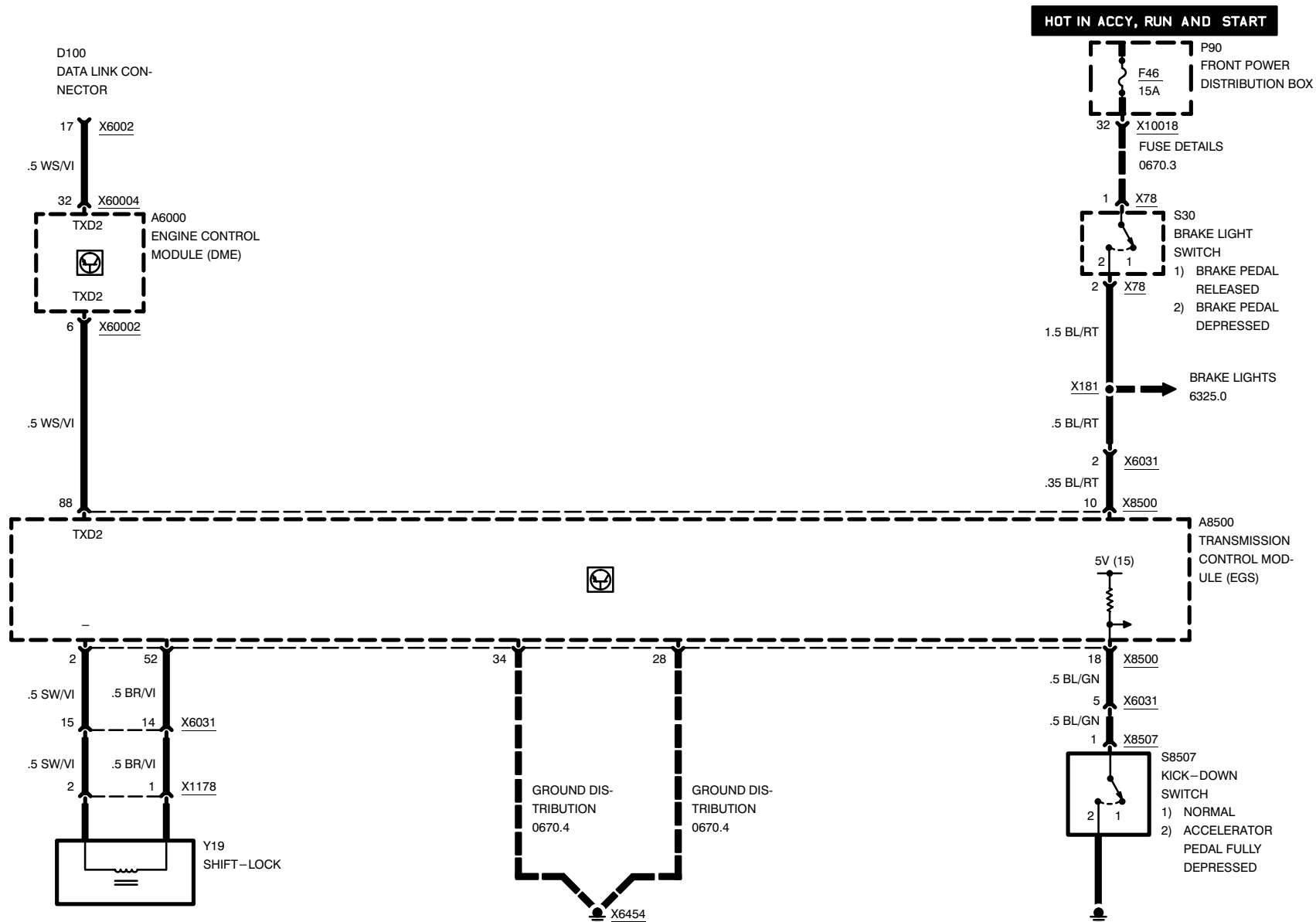
1999





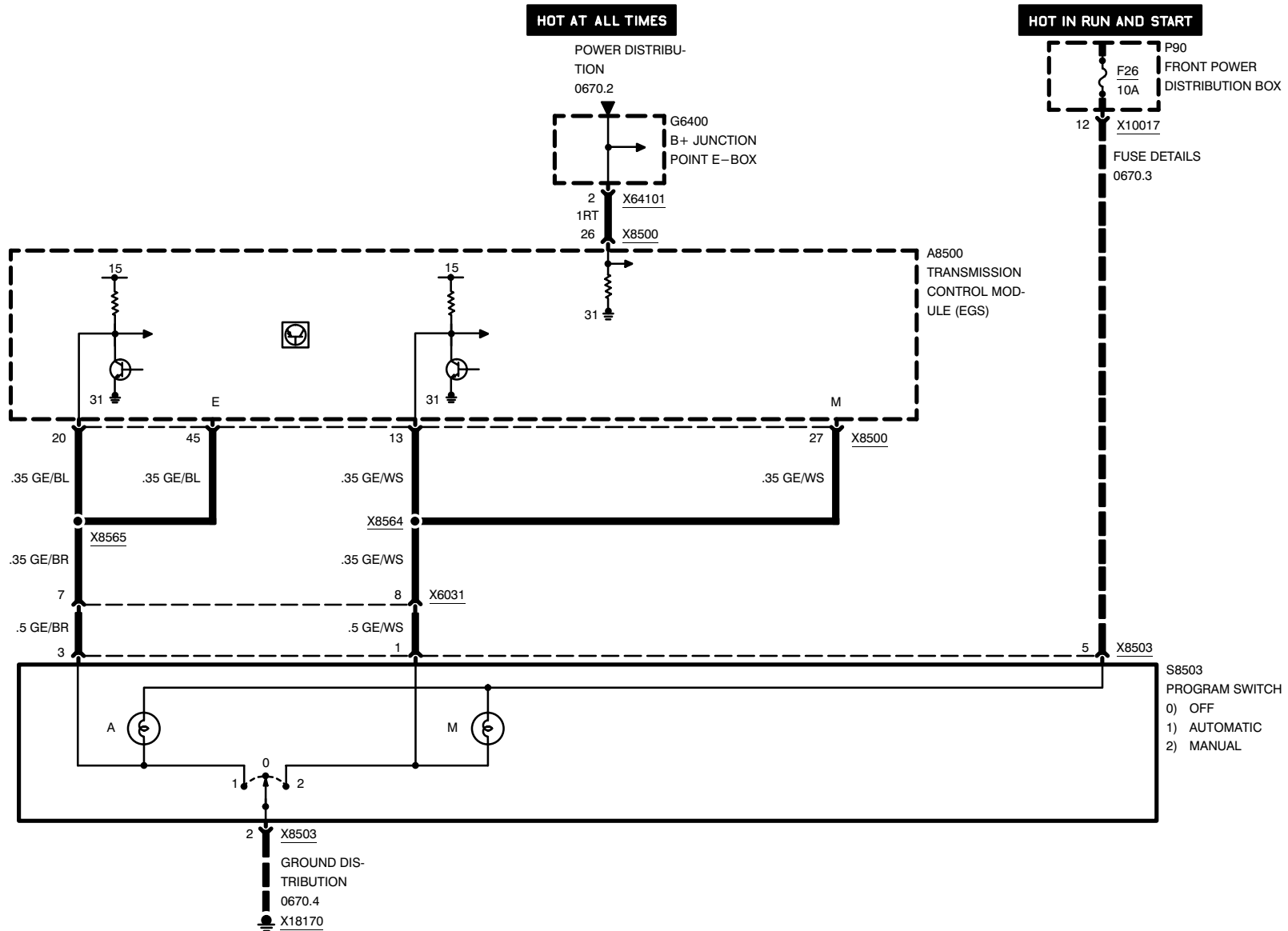
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

SHIFT LOCK, DATA LINK, KICK-DOWN SWITCH





ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

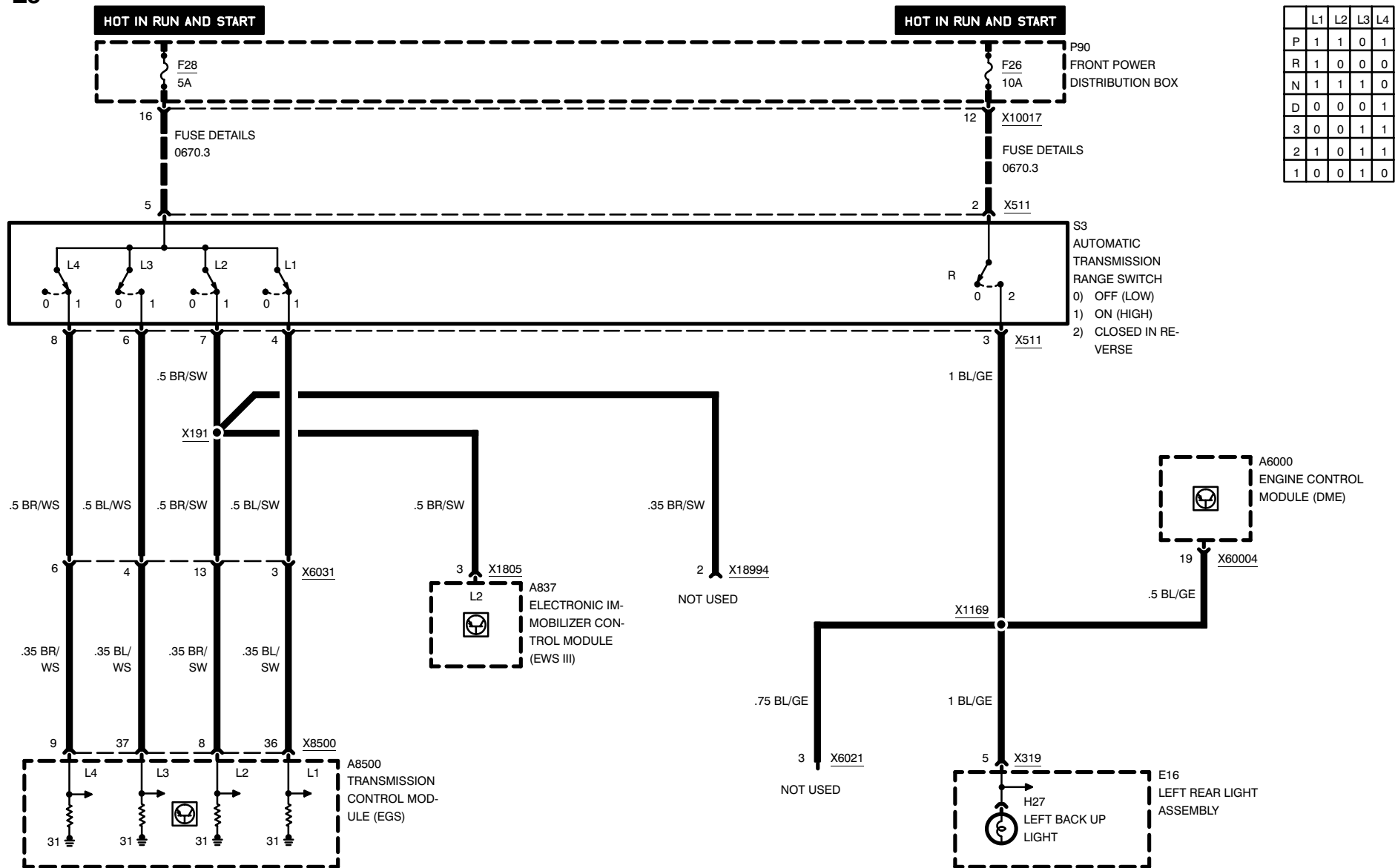


09/98

2460.2-03

1999

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

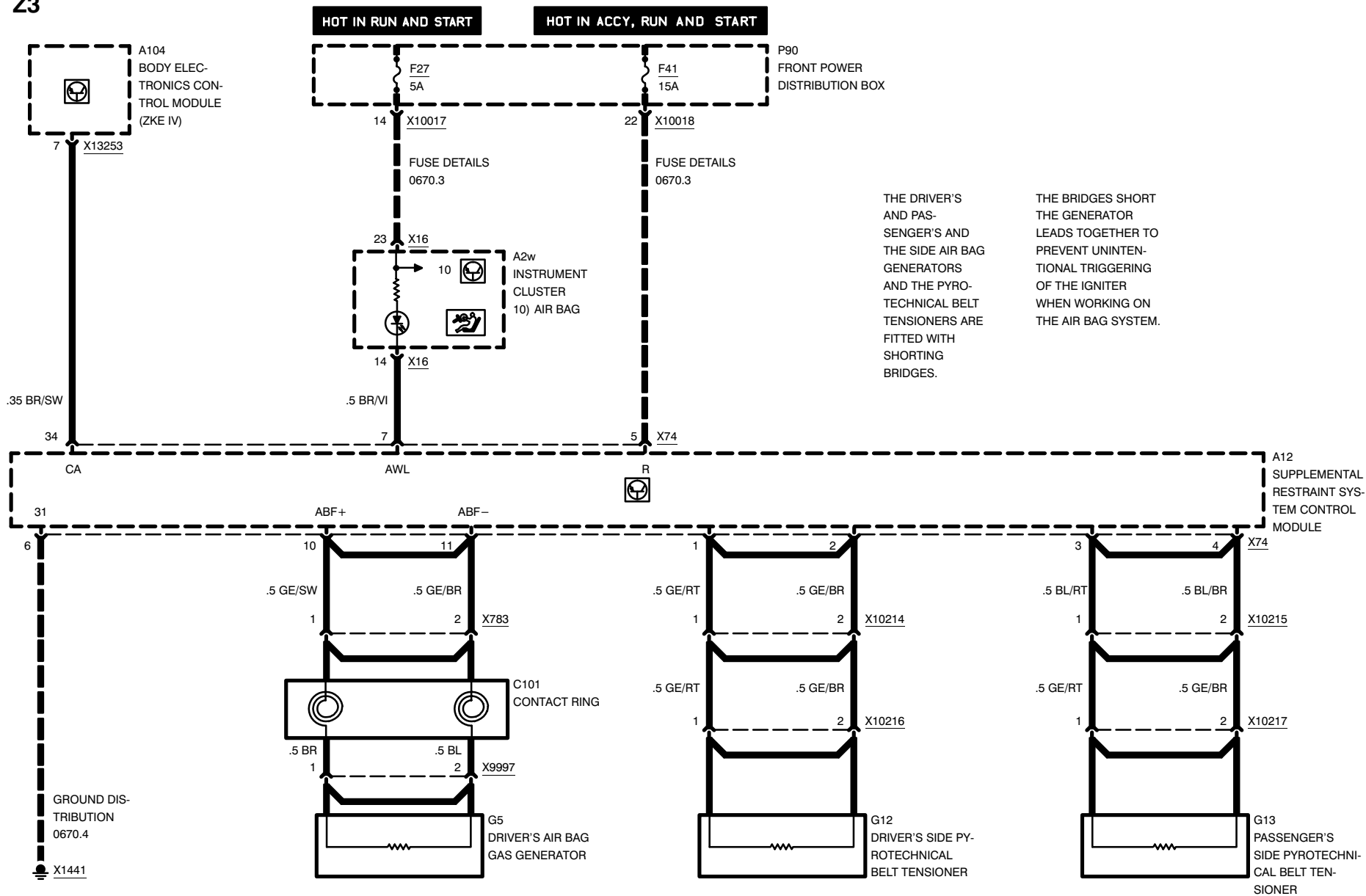


	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0



Z3

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

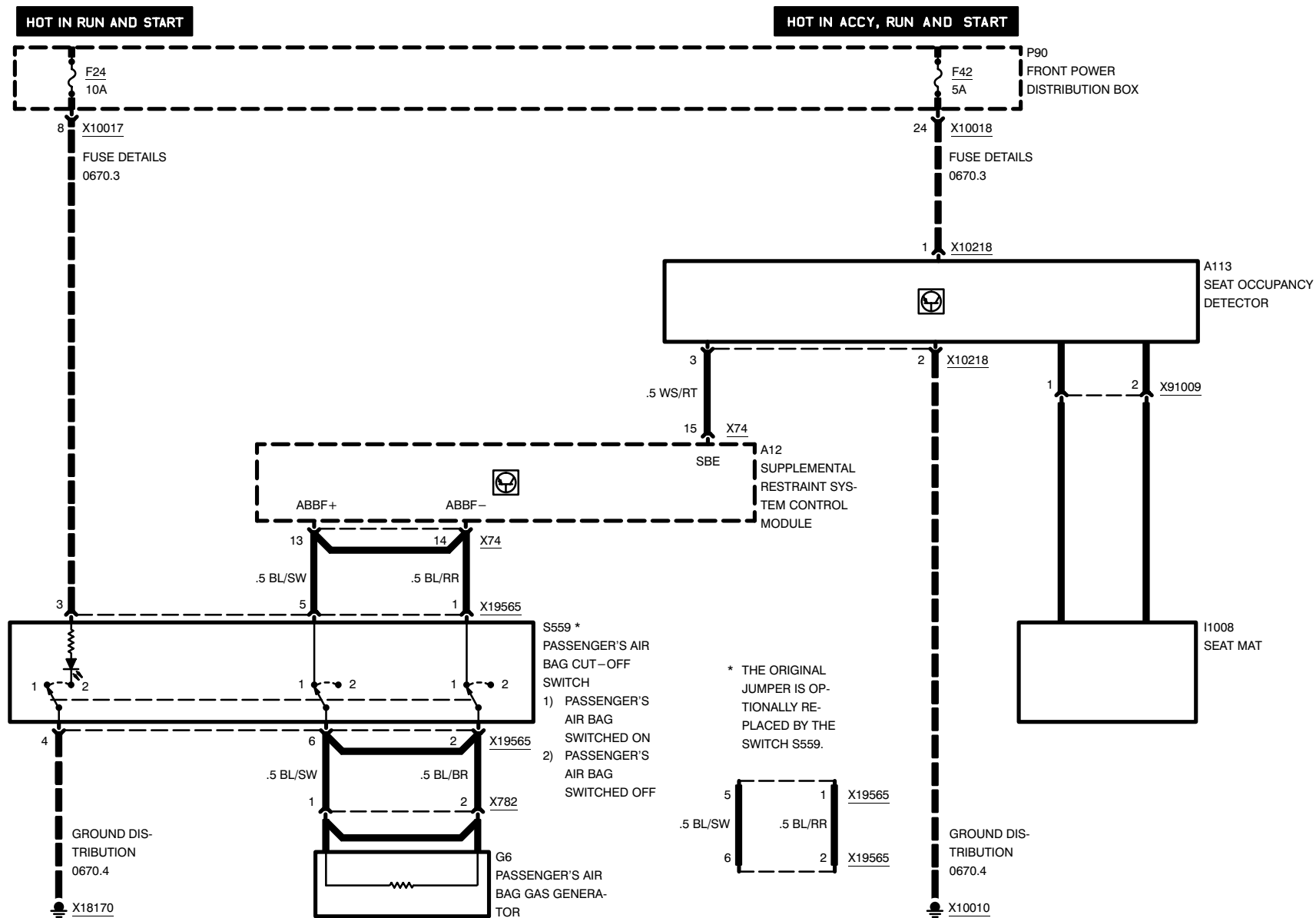


09/98

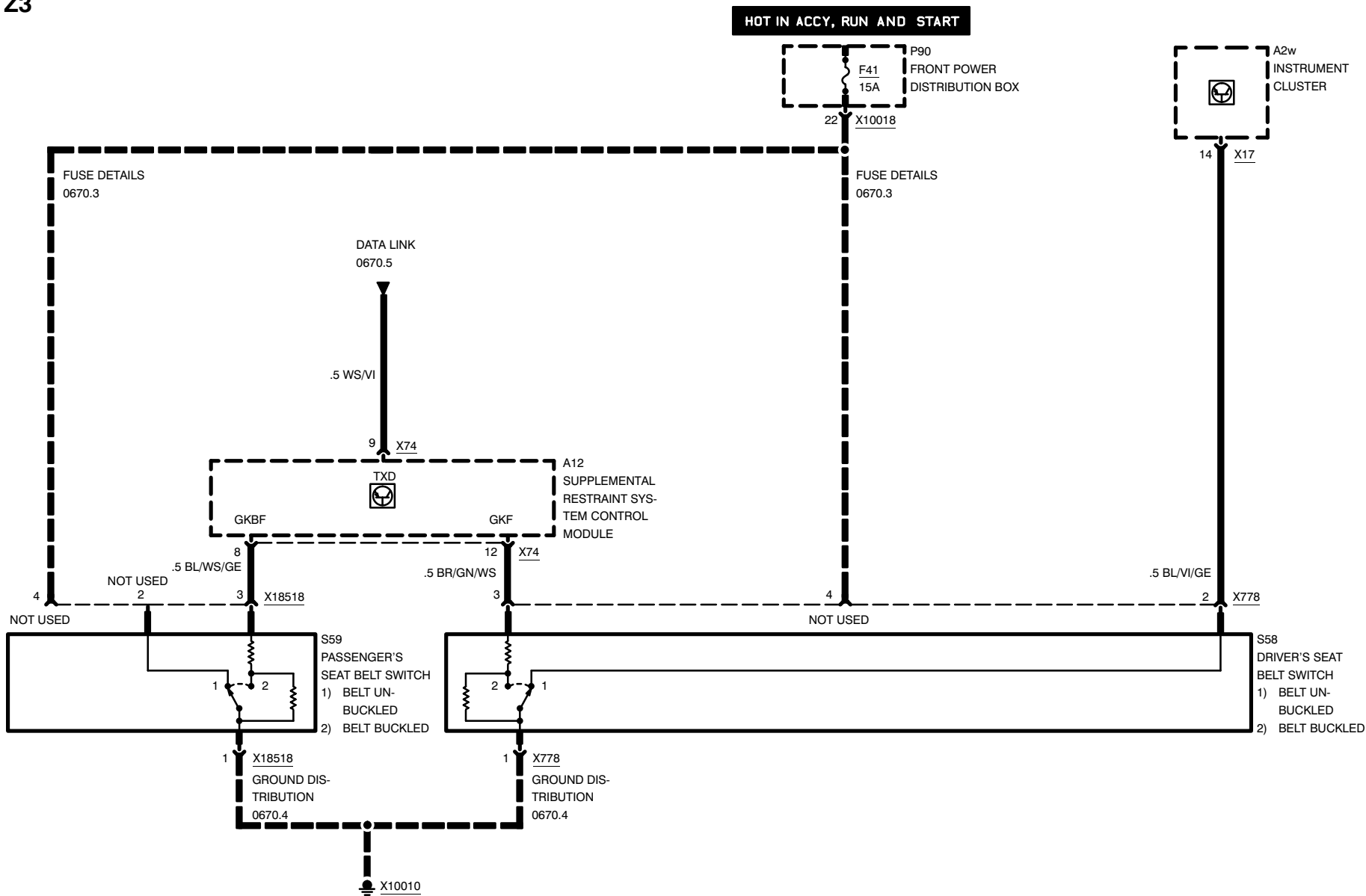
3234.0-00

1999

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



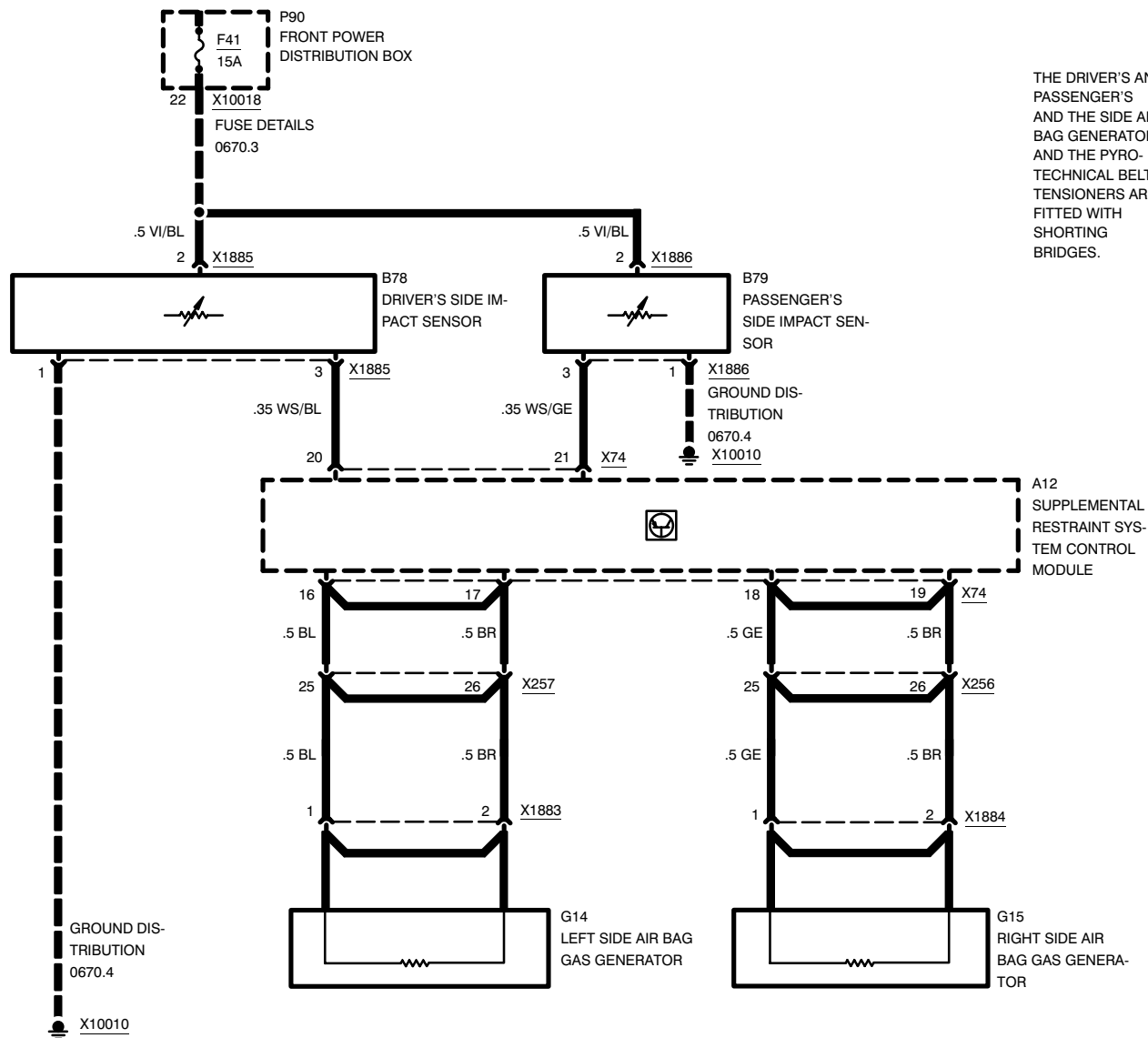
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

SIDE AIR BAG

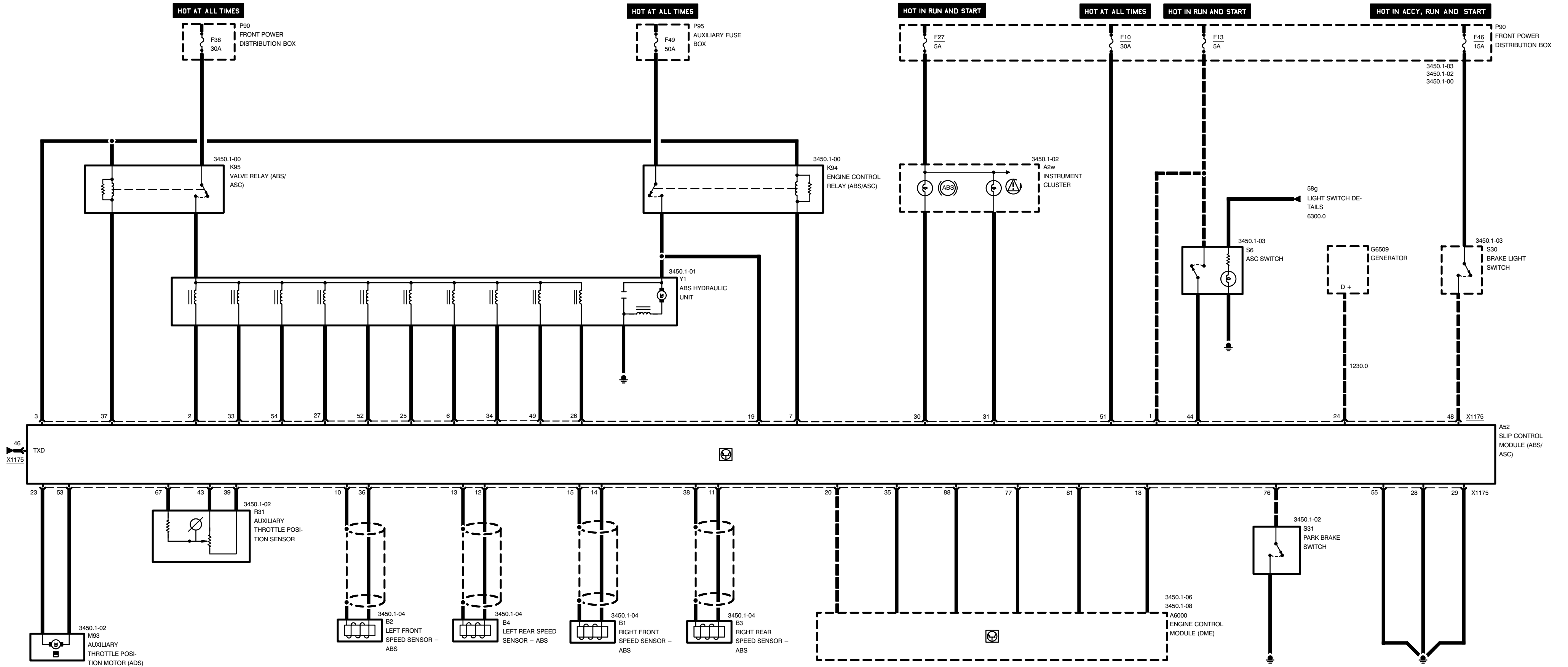
HOT IN ACCY, RUN AND START

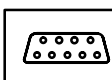


THE DRIVER'S AND PASSENGER'S AND THE SIDE AIR BAG GENERATORS AND THE PYROTECHNICAL BELT TENSIONERS ARE FITTED WITH SHORTING BRIDGES.

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

M VERSIONS



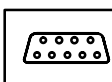


Pin Assignments

X1175

Pin	Type	Description/Function	Connection
98	E	Voltage supply	Fuse 13
99	A	Left front inlet valve	ABS hydraulic unit
100	A	Voltage supply	Valve – Engine control relay
101		Not used	
102		Not used	
103	A	Right rear inlet valve	ABS hydraulic unit
104	A	Activare relay	Engine control relay
105		Not used	
106		Not used	
107	M	Sensor ground	ABS speed sensor front left
108	E	Speed signal	ABS speed sensor rear right
109	M	Sensor ground	ABS speed sensor rear left
110	E	Speed signal	ABS speed sensor rear left
111	M	Sensor ground	ABS speed sensor front right
112	E	Speed signal	ABS speed sensor front right
113		Not used	
114		Not used	
115	E	Engine signal 1	Engine control module (DME)
116	E	Relay activation feedback	Engine control relay
117	E	Speed signal	Engine control module (DME)
118		Not used	
119		Not used	
120	A	ADS step motor (+)	ADS step mototr
121	E	Charge indicator	Generator
122	A	Left rear outlet valve	ABS hydraulic unit
123	A	Shut-off valve (ASC)	ABS hydraulic unit
124	A	Right front outlet valve	ABS hydraulic unit
125	M	Ground	Ground point
126	M	Ground	Ground point
127	A	ABS lamp control	Instrument cluster

E = Input, A = Output, M = Ground



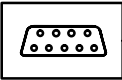
Pin Assignments

Pin	Type	Description/Function	Connection
128	A	ASC lamp control	Instrument cluster
129		Not used	
130	A	Left front outlet valve	ABS hydraulic unit
131	A	Right rear outlet valve	ABS hydraulic unit
132	A	Right rear speed signal	Engine control module (DME)
133	E	Speed signal	ABS speed sensor front left
134	A	Activare relay	Valve relay
135	M	Sensor ground	ABS speed sensor rear right
136	A	Throttle position sensor (-)	Auxiliary throttle position sensor
137		Not used	
138		Not used	
139		Not used	
140	A	Throttle position sensor (+)	Auxiliary throttle position sensor
141	E	ASC-ON-signal	ASC switch
142		Not used	
143	E/A	TXD signal	Diagnostic link
144		Not used	
145	E	Brake signal	Brake light switch
146	A	Changeover valve (ASC)	ABS hydraulic unit
147		Not used	
148	E	Voltage supply	Fuse 10
149	A	Left rear inlet valve	ABS hydraulic unit
150	A	ADS step motor (-)	ADS step motor
151	A	Right front inlet valve	ABS hydraulic unit
152	M	Ground	Ground point
153		Not used	
154		Not used	
155		Not used	
156		Not used	
157		Not used	
158		Not used	
159		Not used	

E = Input, A = Output, M = Ground



Z3



Pin Assignments

Pin	Type	Description/Function	Connection
160		Not used	
161		Not used	
162		Not used	
163		Not used	
164	E	ASC throttle flap signal	Auxiliary throttle position sensor
165		Not used	
166		Not used	
167		Not used	
168		Not used	
169		Not used	
170		Not used	
171		Not used	
172		Not used	
173	E	Signal park brake set	Park brake switch
174	E	Engine signal 3	Engine control module (DME)
175		Not used	
176		Not used	
177		Not used	
178	E	Engine signal 2	Engine control module (DME)
179		Not used	
180		Not used	
181		Not used	
182		Not used	
183		Not used	
184		Not used	
185	E	Throttle flap position	Engine control module (DME)

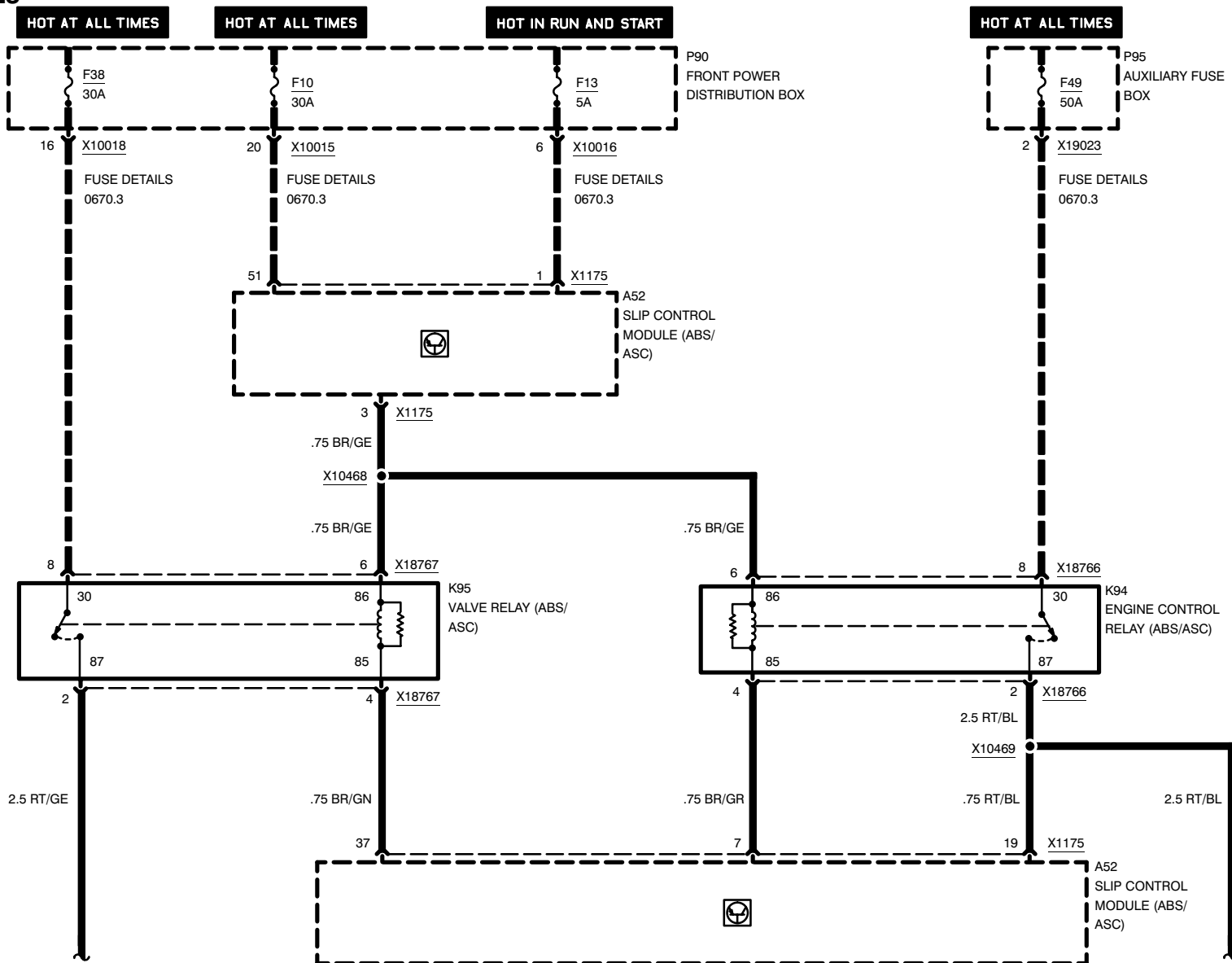
E = Input, A = Output, M = Ground



SLIP CONTROL (ABS/ASC)

M VERSIONS

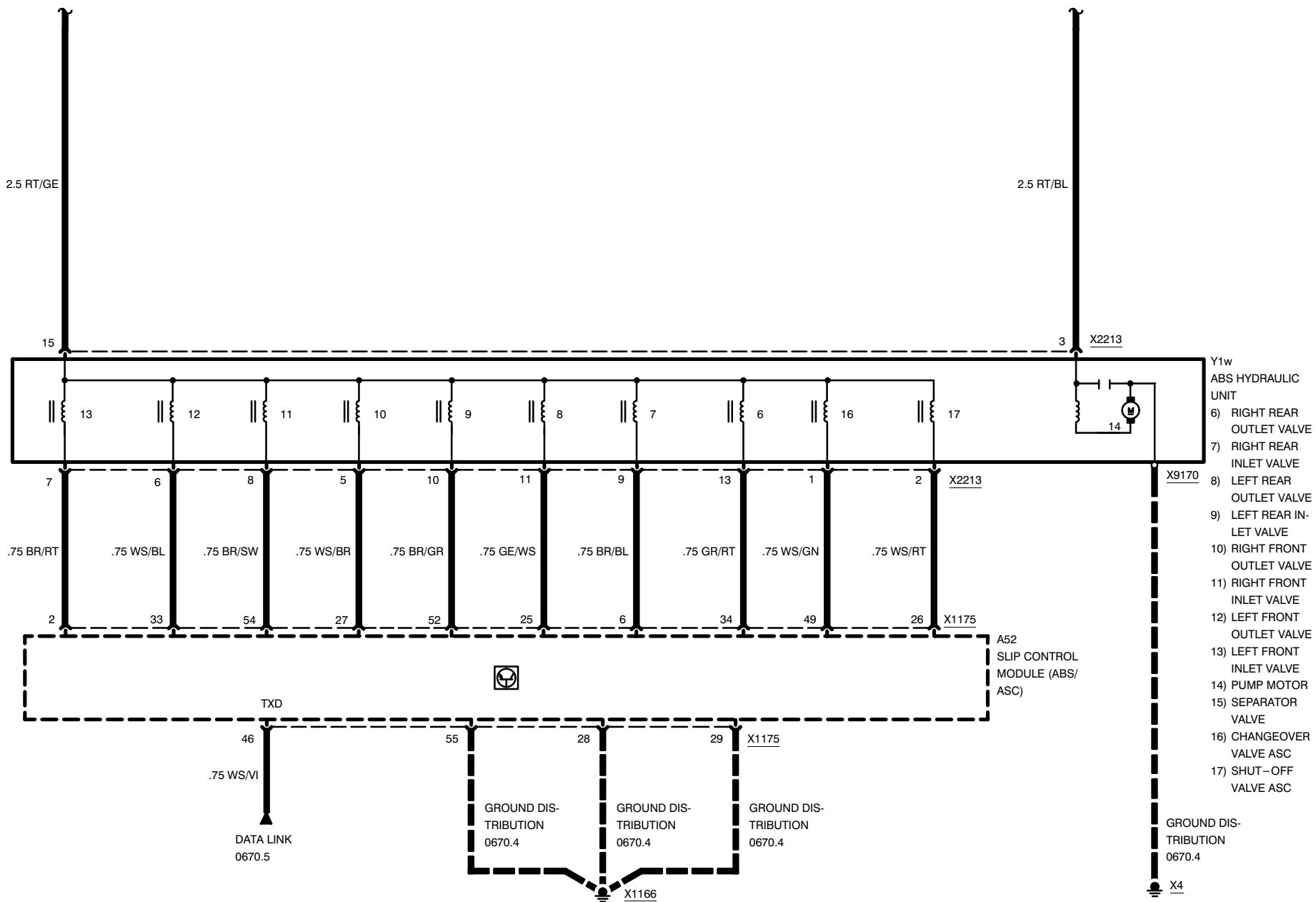
Z3



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3450.1-00

1999

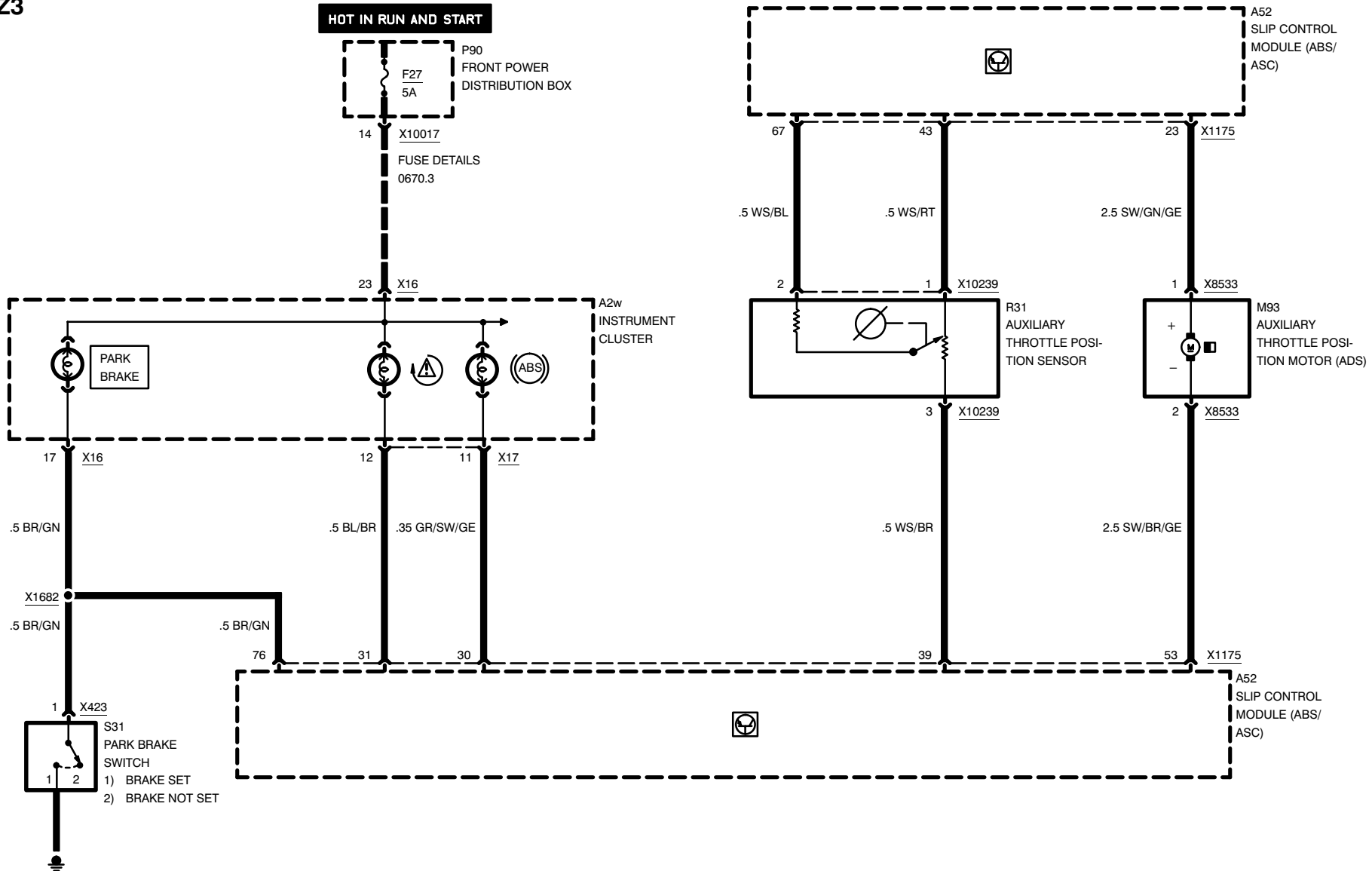


- Y1w
ABS HYDRAULIC UNIT
- 6) RIGHT REAR OUTLET VALVE
 - 7) RIGHT REAR INLET VALVE
 - 8) LEFT REAR OUTLET VALVE
 - 9) LEFT REAR INLET VALVE
 - 10) RIGHT FRONT OUTLET VALVE
 - 11) RIGHT FRONT INLET VALVE
 - 12) LEFT FRONT OUTLET VALVE
 - 13) LEFT FRONT INLET VALVE
 - 14) PUMP MOTOR
 - 15) SEPARATOR VALVE
 - 16) CHANGEOVER VALVE ASC
 - 17) SHUT-OFF VALVE ASC



SLIP CONTROL (ABS/ASC)

M VERSIONS

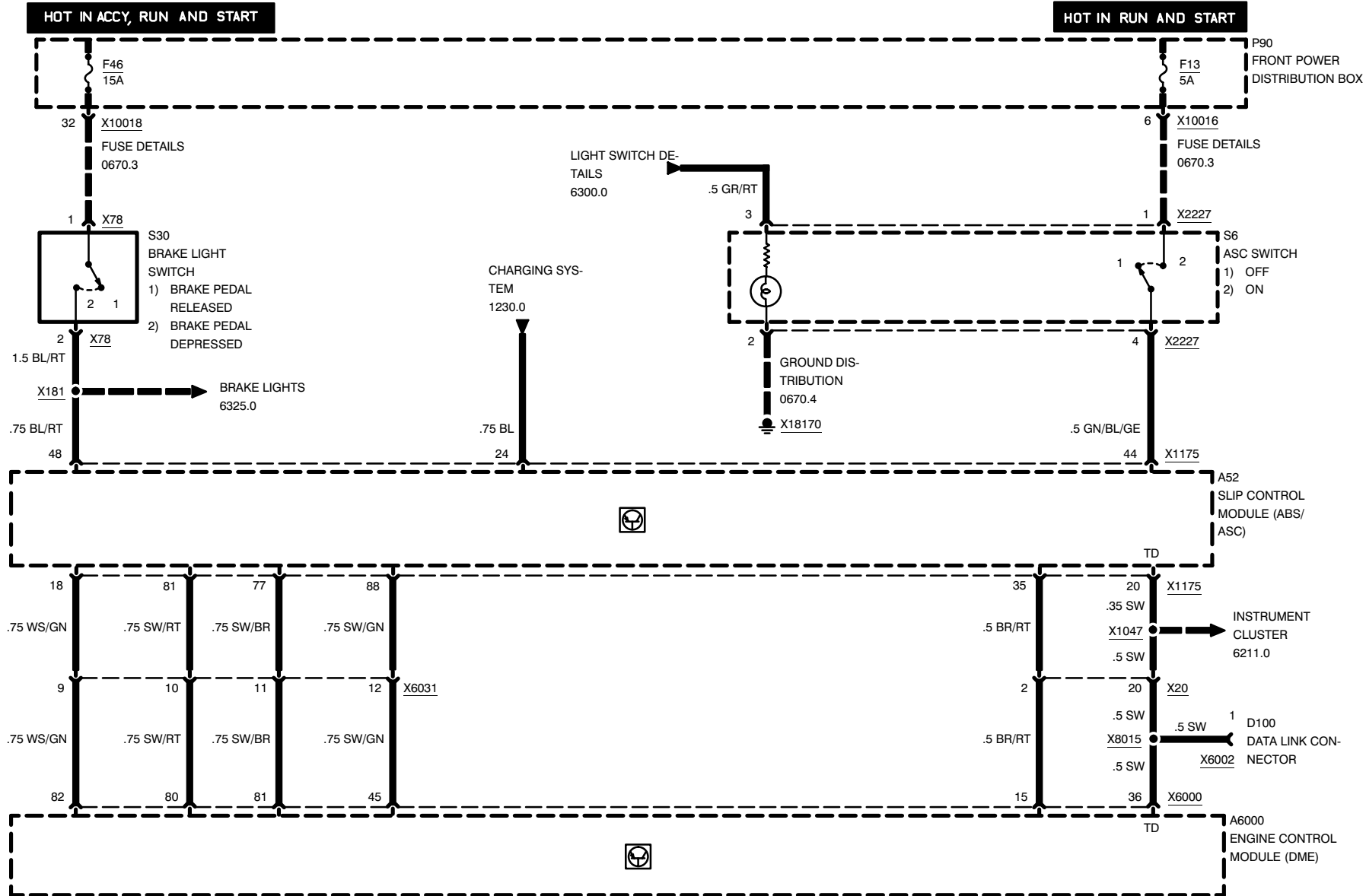




SLIP CONTROL (ABS/ASC)

M VERSIONS

Z3

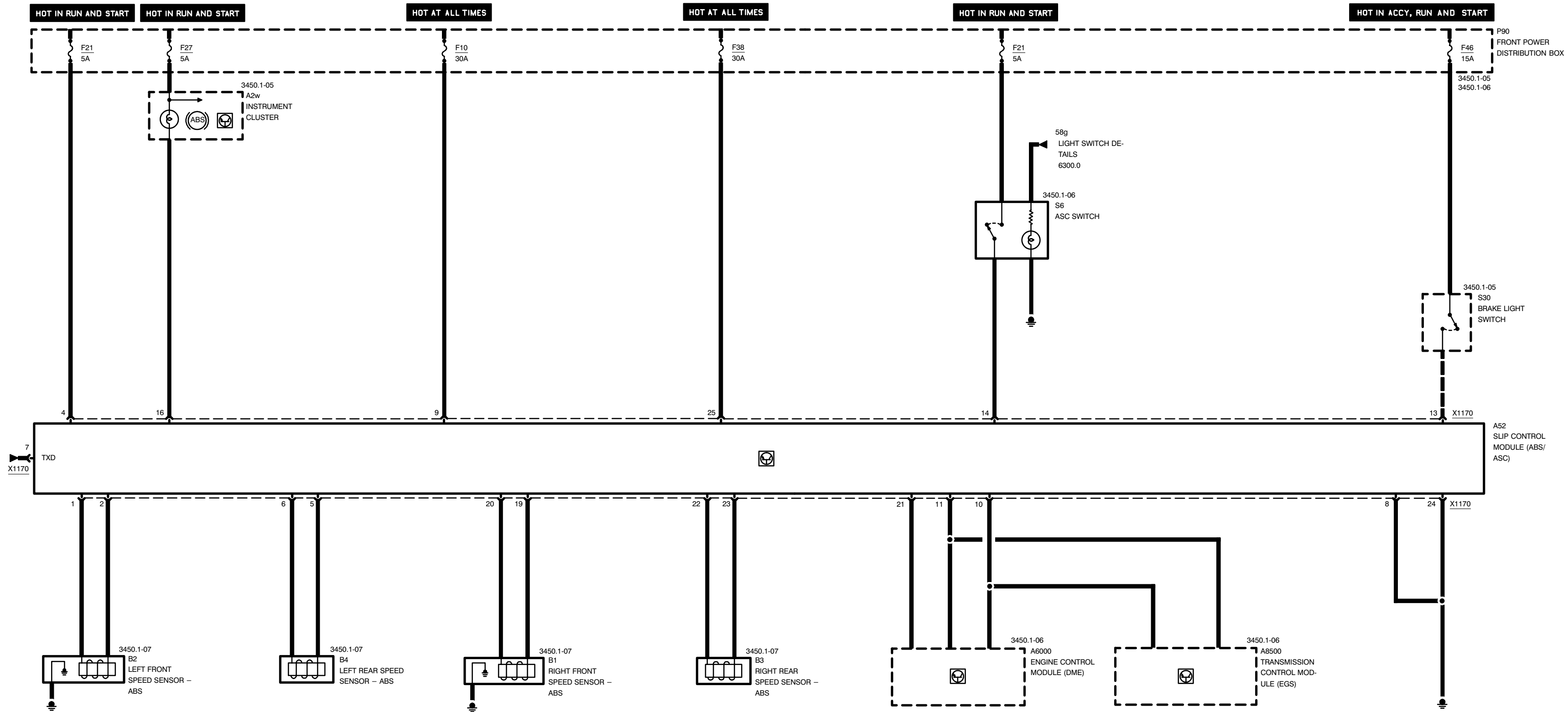


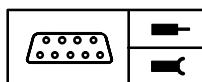
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3450.1-03

1999

Z3 VERSIONS



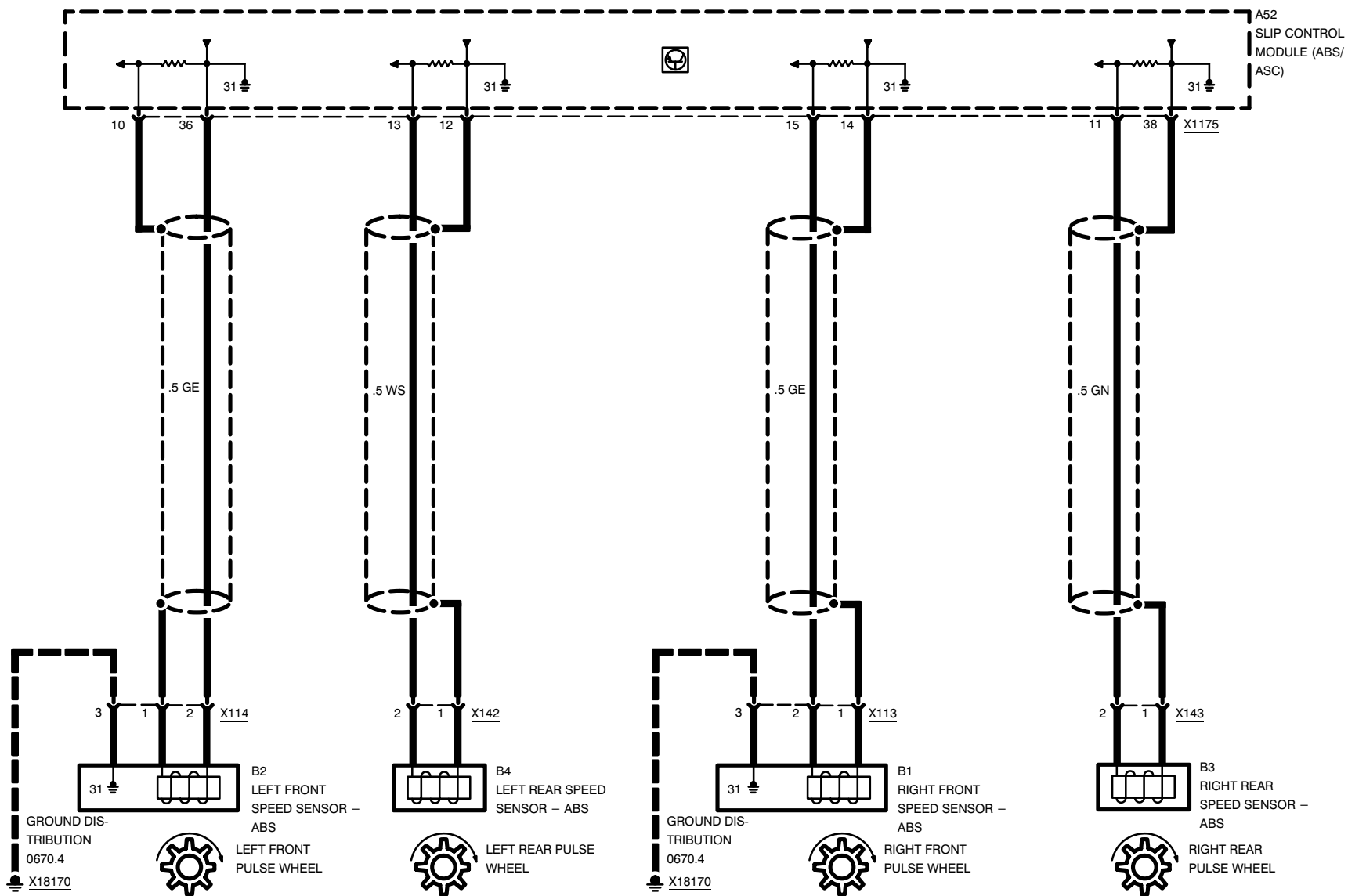


Pin Assignments

X1170

Pin	Type	Signal	Description/Function	Connection
1	M	VL-	Sensor ground	Left front speed sensor (ABS)
2	E	VL+	Speed signal	Left front speed sensor (ABS)
3			Not used	
4	E	15A21	Voltage supply	Fuse 21
5	M	HL-	Sensor ground	Left rear speed sensor (ABS)
6	E	HL+	Speed signal	Left rear speed sensor (ABS)
7	E/A	TXD	TXD signal	Diagnostic link
8	M	31L	Ground	Ground point
9	E	30<10	Voltage supply	Fuse 10
10	E/A	CAN-	CAN bus low	Instrument cluster/engine control module
11	E/A	CAN+	CAN bus high	Instrument cluster/engine control module
12			Not used	
13	E	54	Brake signal	Brake light switch
14	E	ASCS	ASC-ON-signal	ASC switch
15			Not used	
16	A	WLAS	Warning lamp	Instrument cluster
17			Not used	
18			Not used	
19	M	VR-	Sensor ground	Right front speed sensor (ABS)
20	E	VR+	Speed signal	Right front speed sensor (ABS)
21	A	DFAHR	Right rear speed signal	Engine control module (DME)
22	E	HR+	Speed signal	Right rear speed sensor (ABS)
23	M	HR-	Sensor ground	Right rear speed sensor (ABS)
24	M	31L	Ground	Ground point
25	E	30<38	Voltage supply	Fuse 38

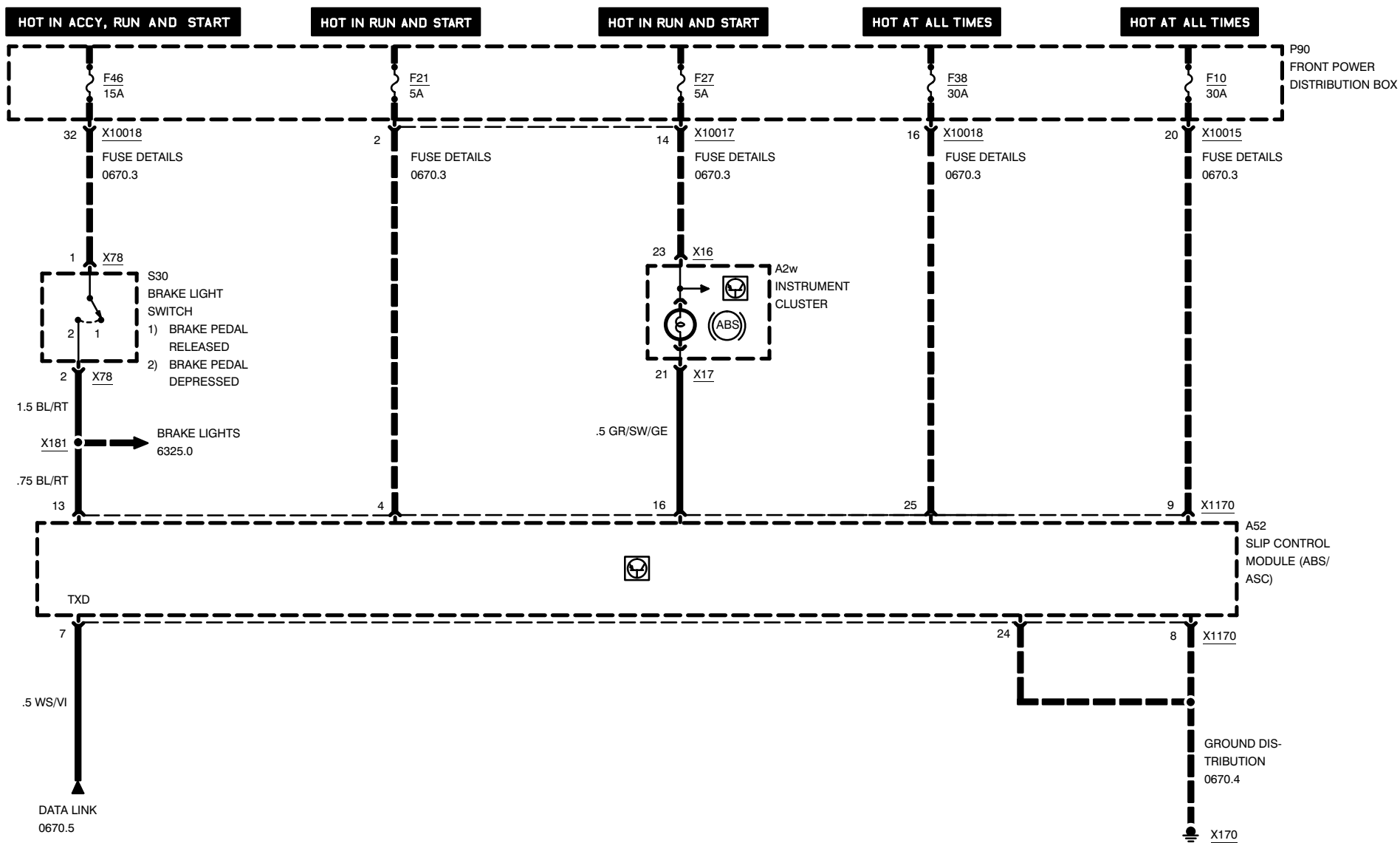
E = Input, A = Output, M = Ground





SLIP CONTROL (ABS/ASC)

Z3 VERSIONS



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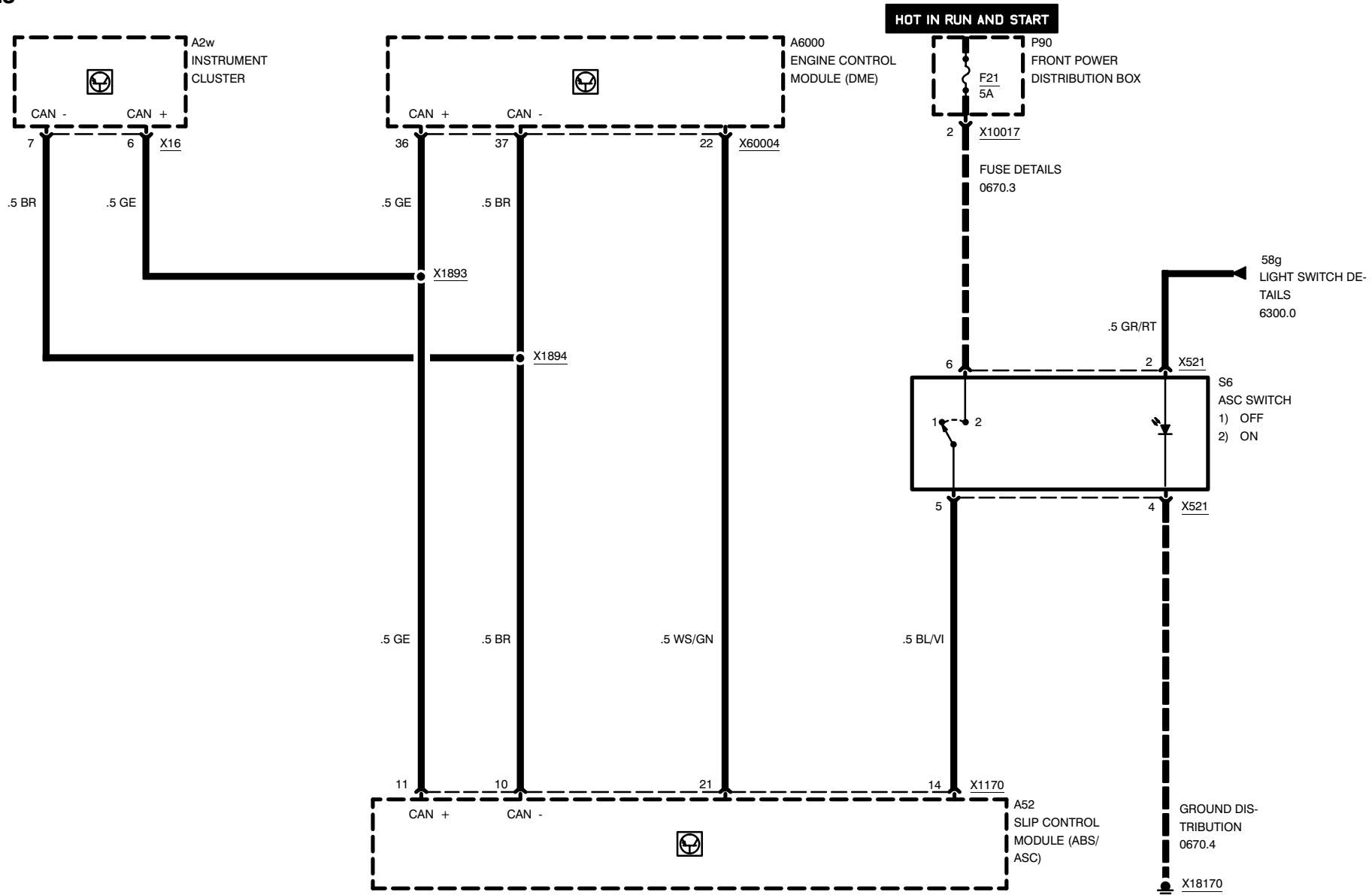
3450.1-05

1999



SLIP CONTROL (ABS/ASC)

Z3 VERSIONS



09/98

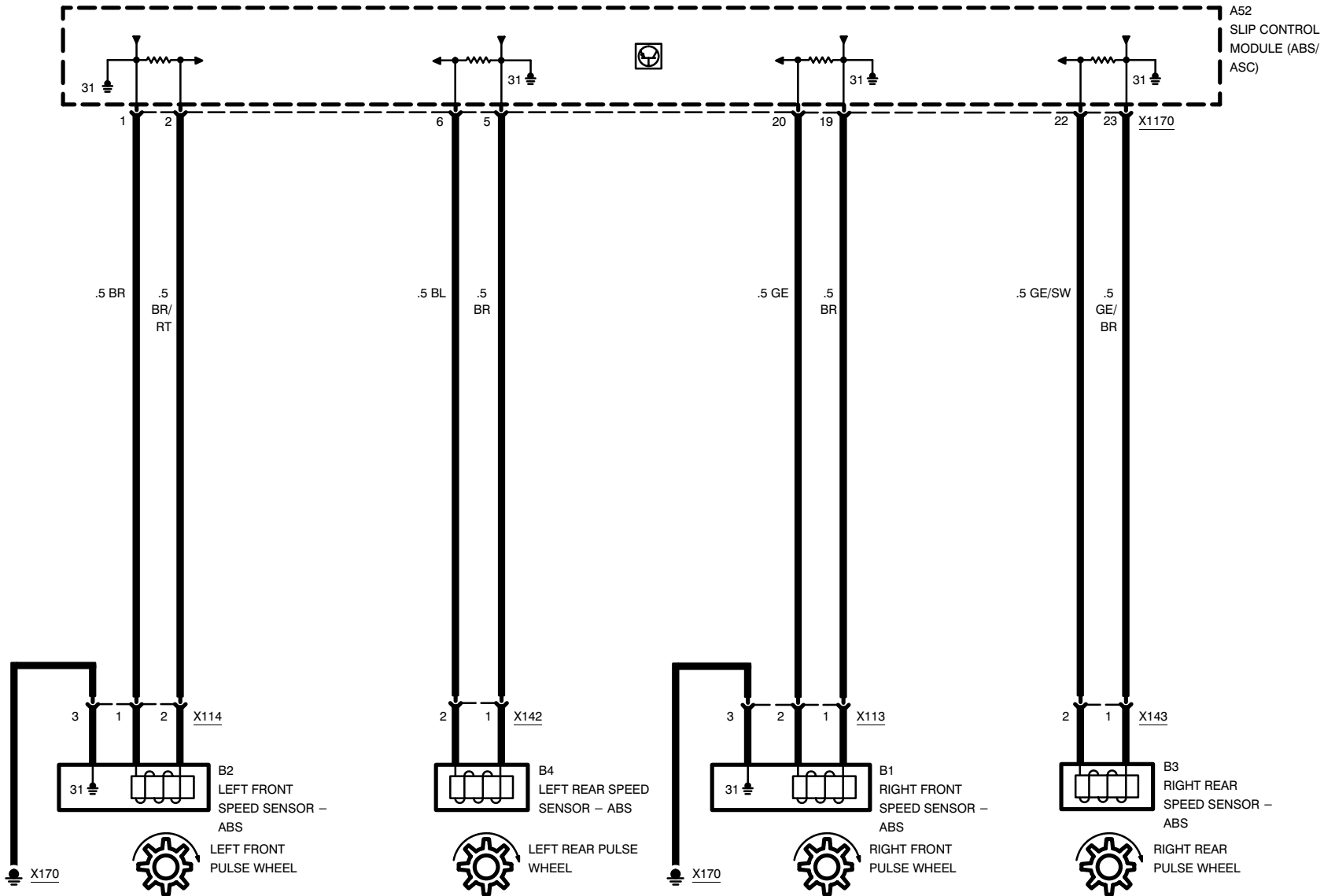
3450.1-06

1999



SLIP CONTROL (ABS/ASC)

Z3 VERSIONS



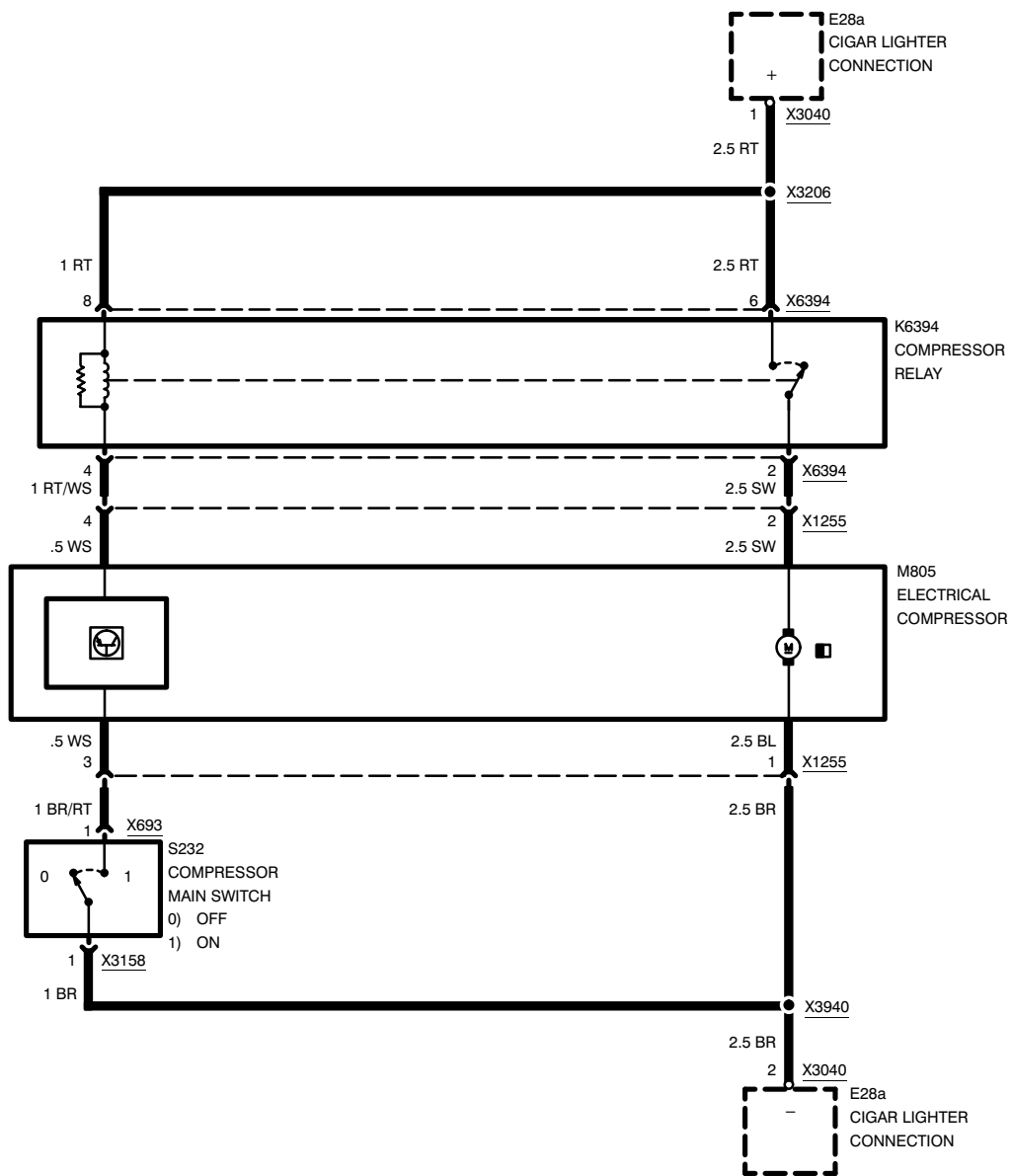
09/98

3450.1-07

1999



TYRE INFLATION SYSTEM



09/98

3614.0-00

1999

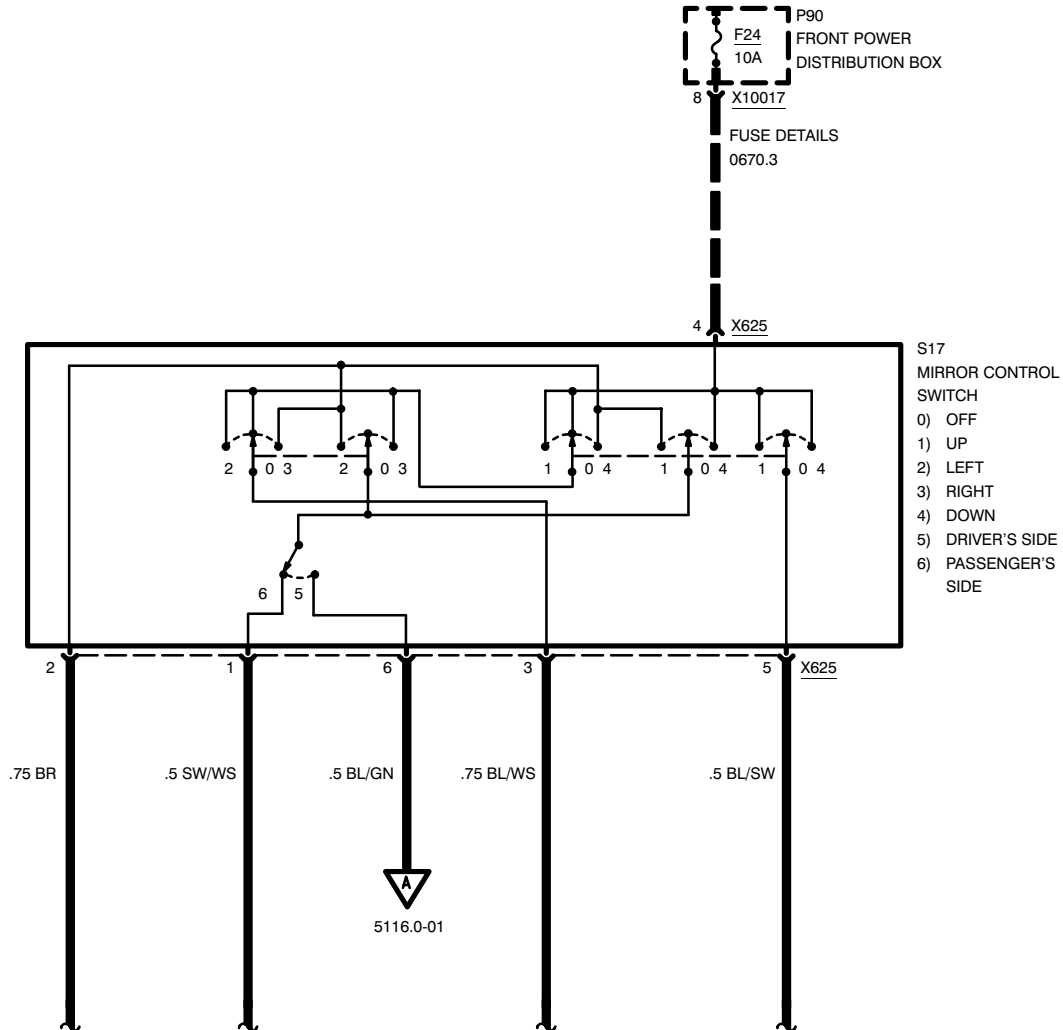


POWER MIRRORS

OUTSIDE MIRROR

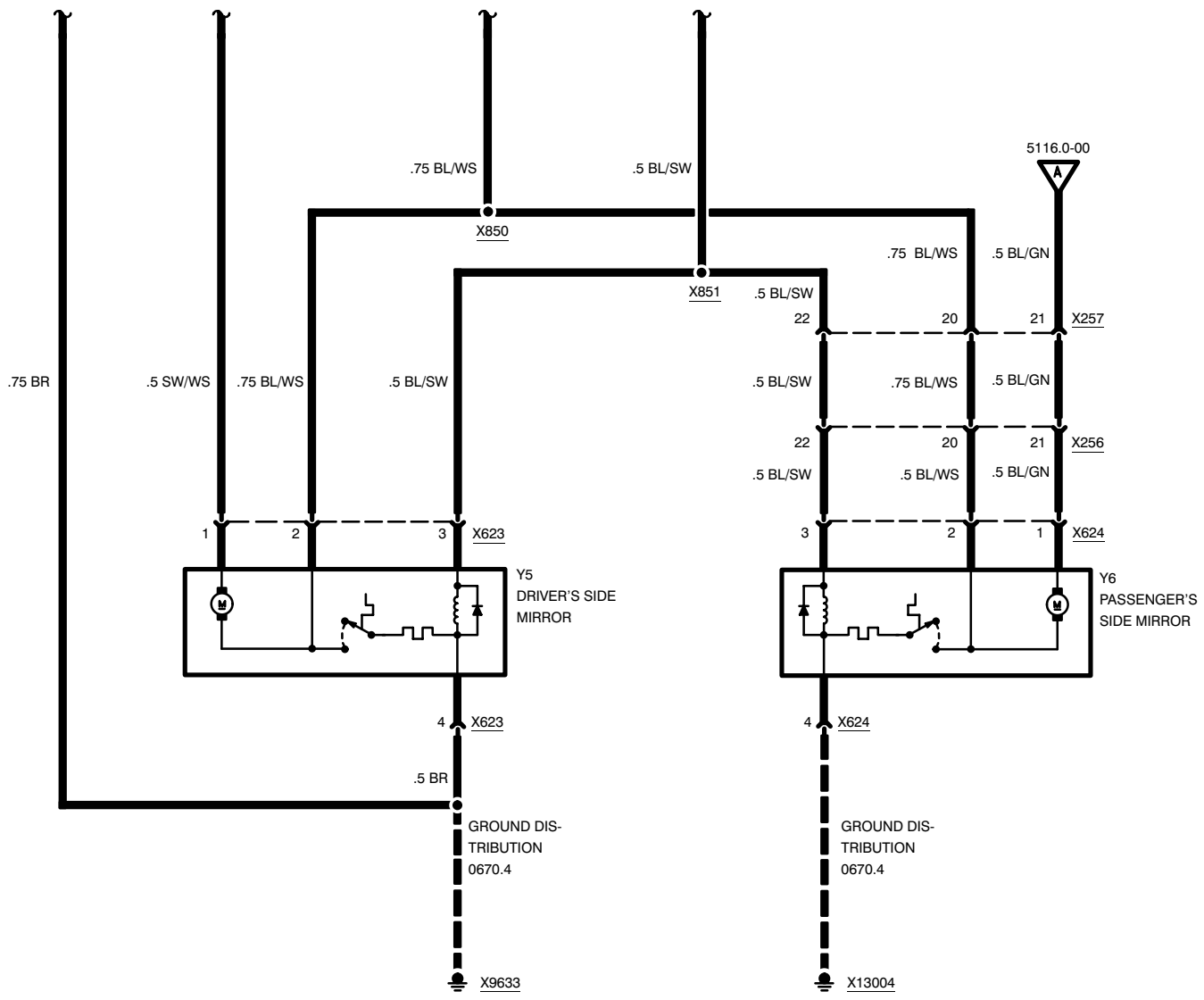
09/98

HOT IN RUN AND START



5116.0-00

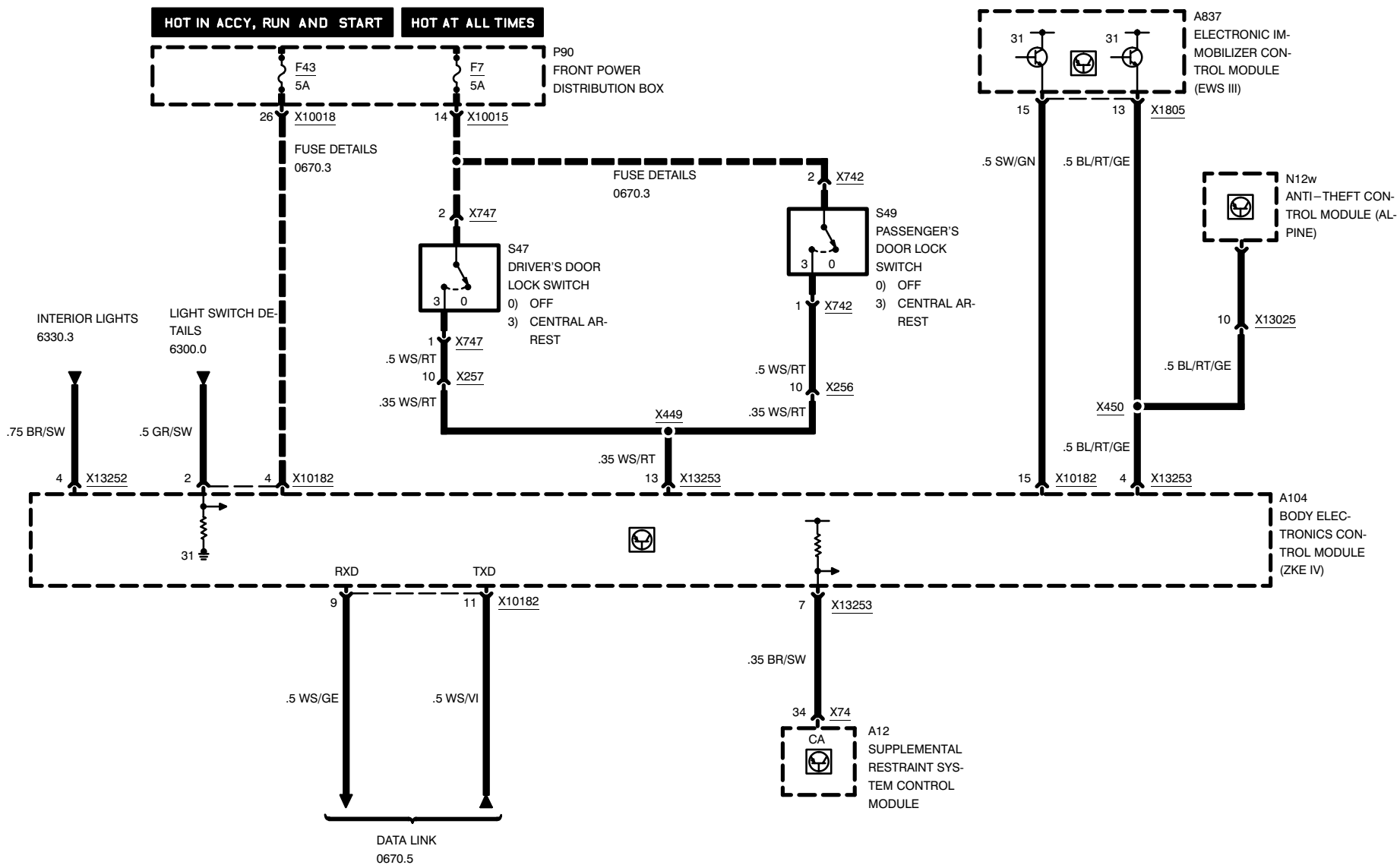
1999





ZKE CENTRAL LOCKING (ZV)

INPUTS, DRIVE-AWAY PROTECTION

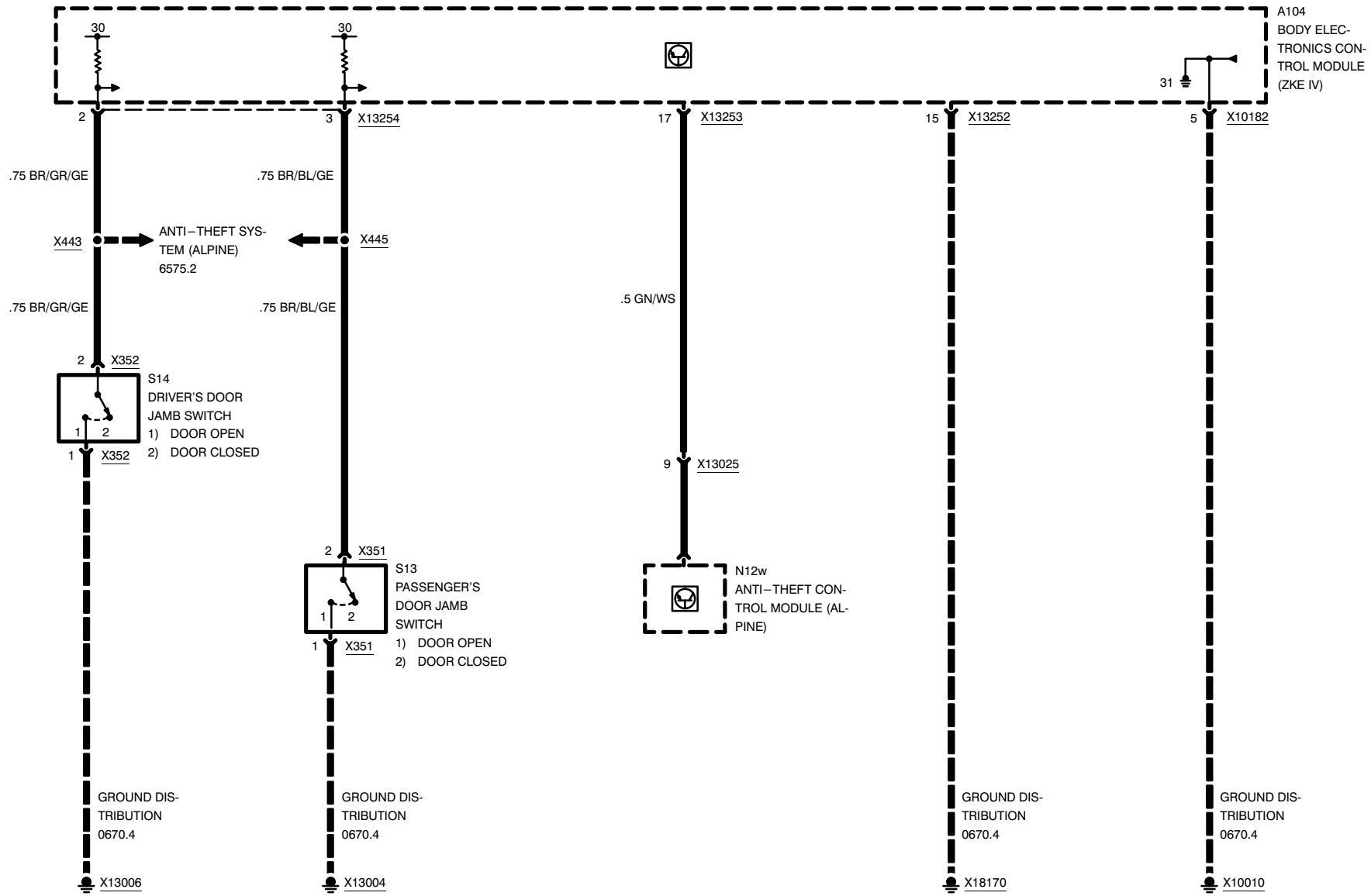




ZKE CENTRAL LOCKING (ZV)

INPUT DETAILS

Z3



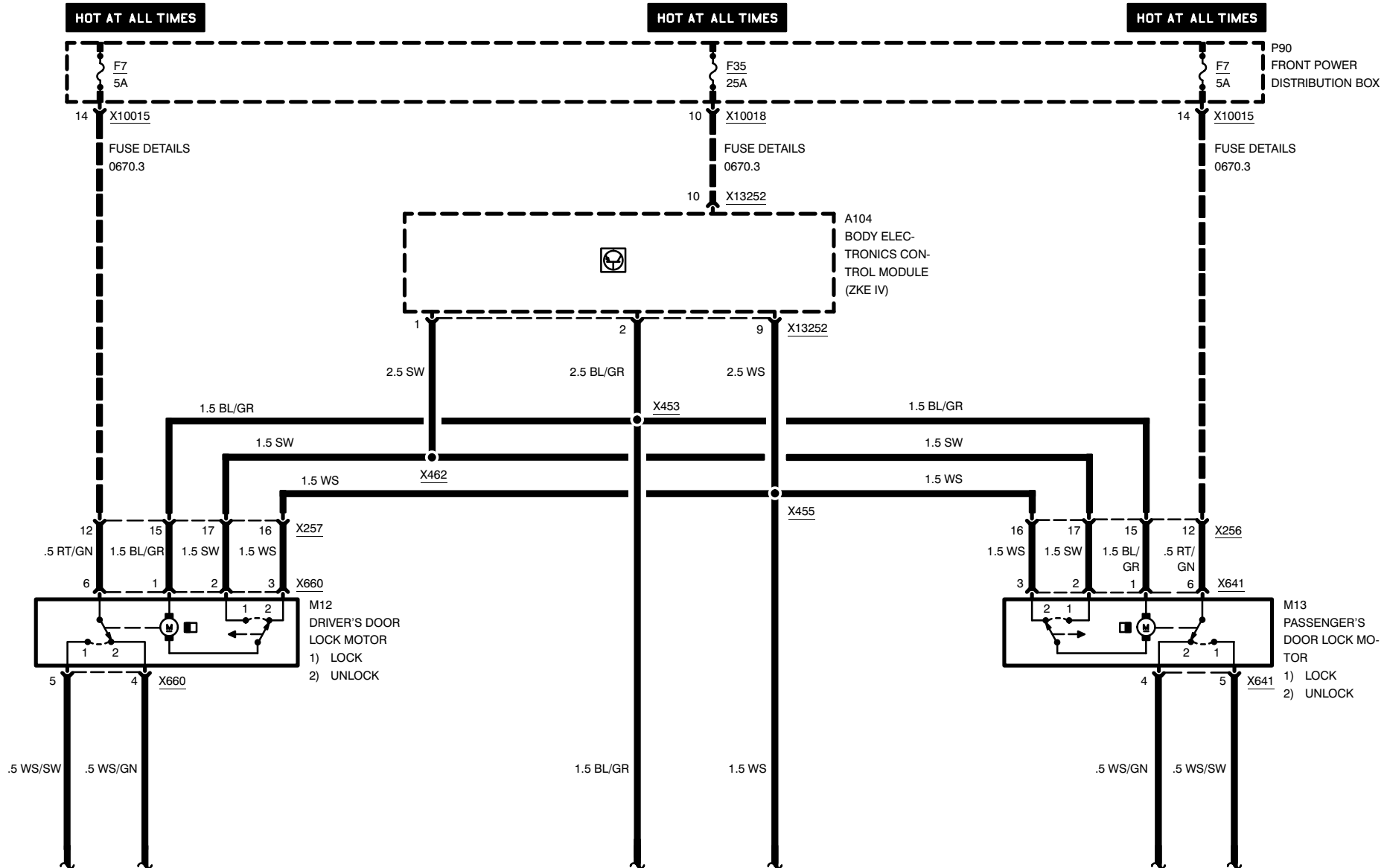
09/98

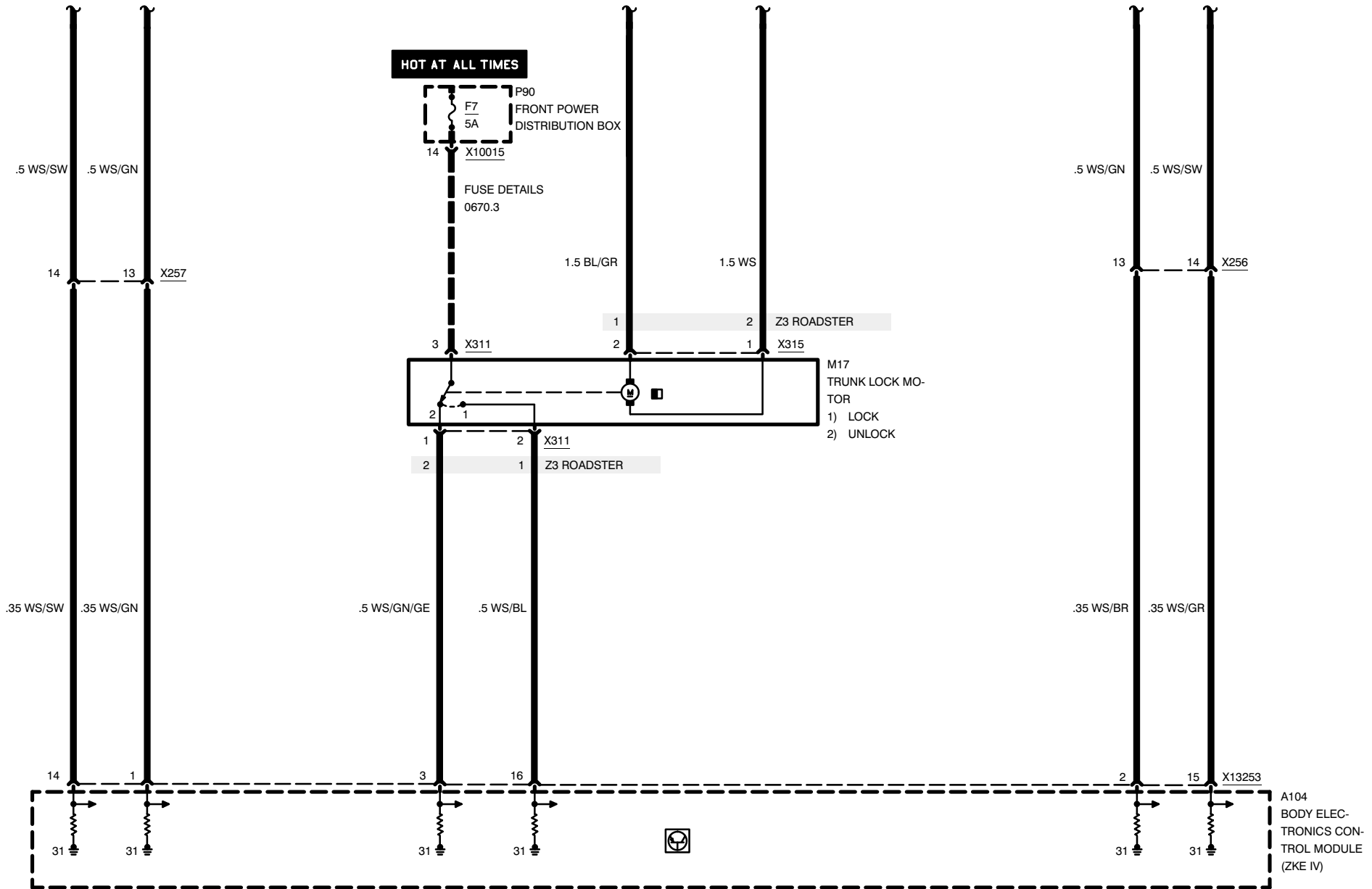
5126.0-01

1999

ZKE CENTRAL LOCKING (ZV)
OUTPUT DETAILS

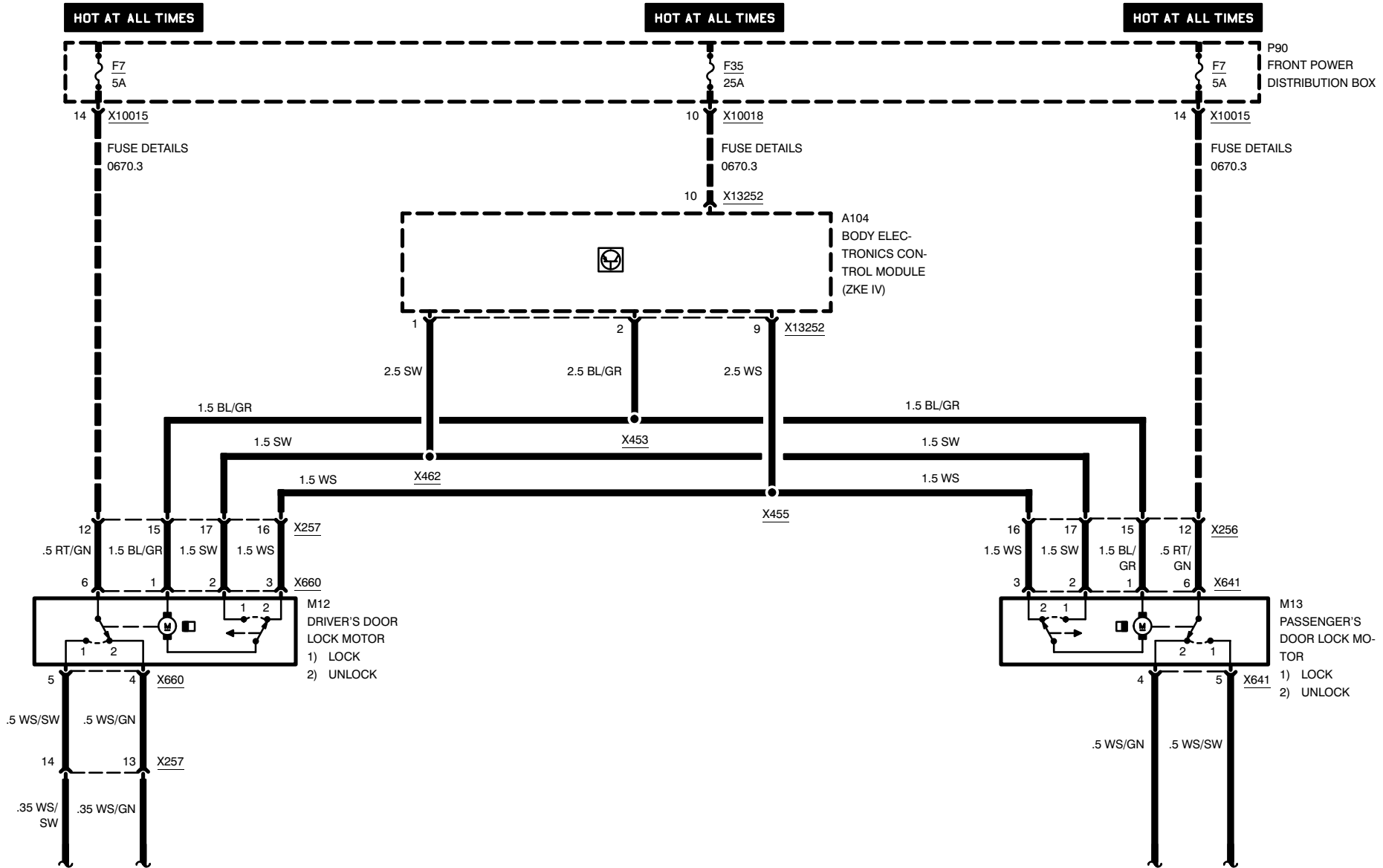
Z3 VERSIONS AND M ROADSTER

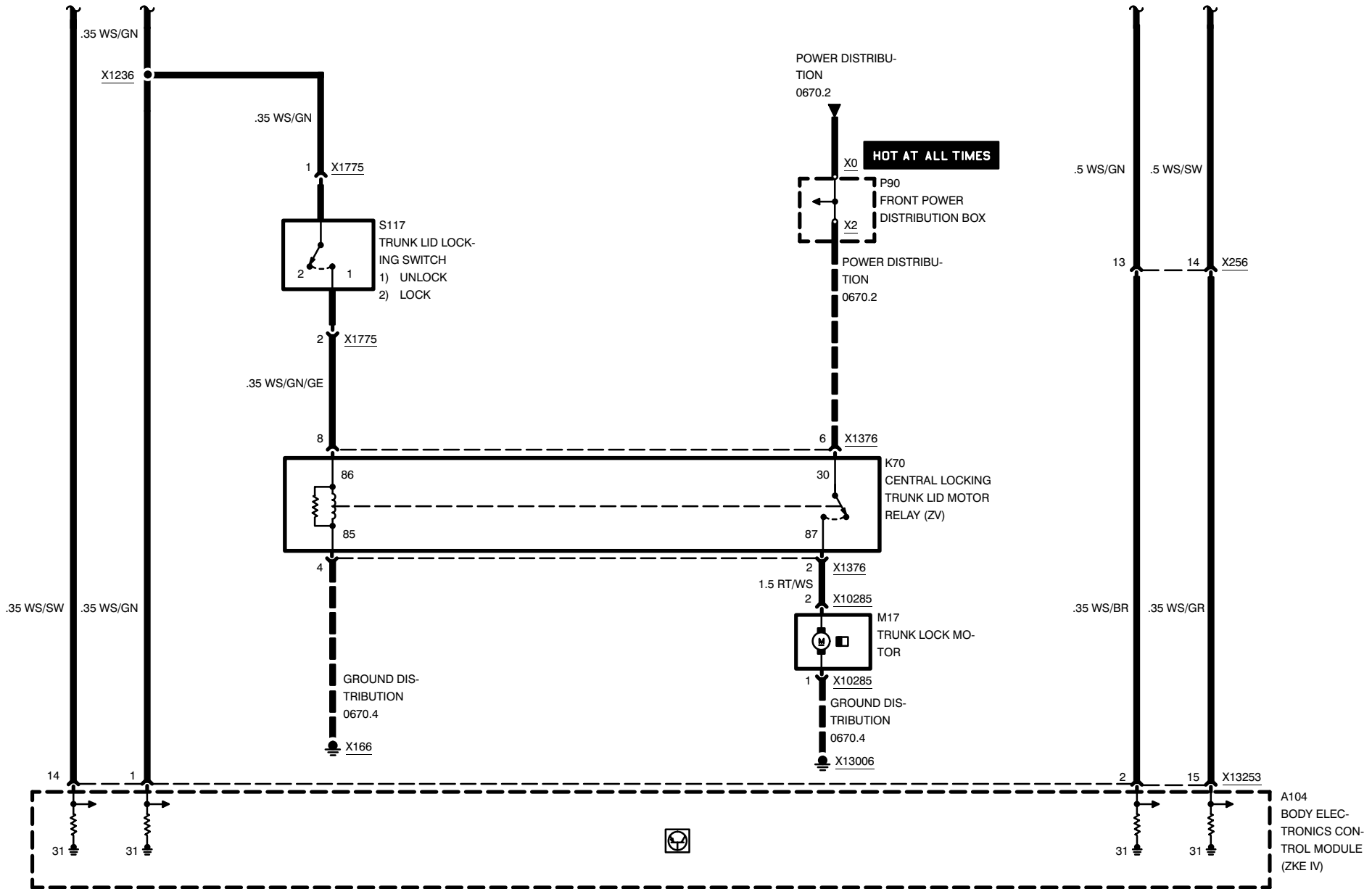




ZKE CENTRAL LOCKING (ZV)
OUTPUT DETAILS

M COUPE

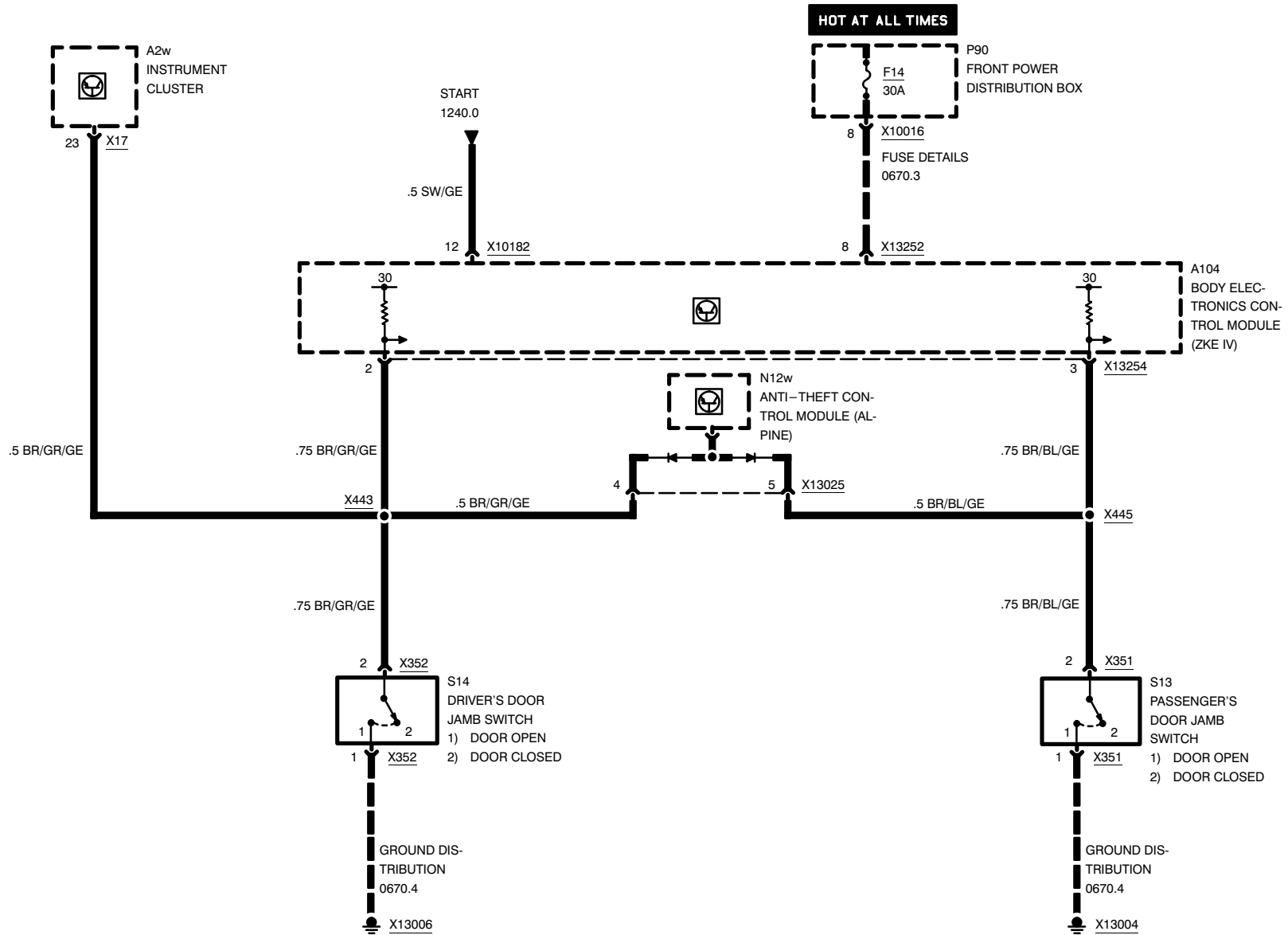






ZKE POWER WINDOWS (FH)

INPUT DETAILS



09/98

5133.0-00

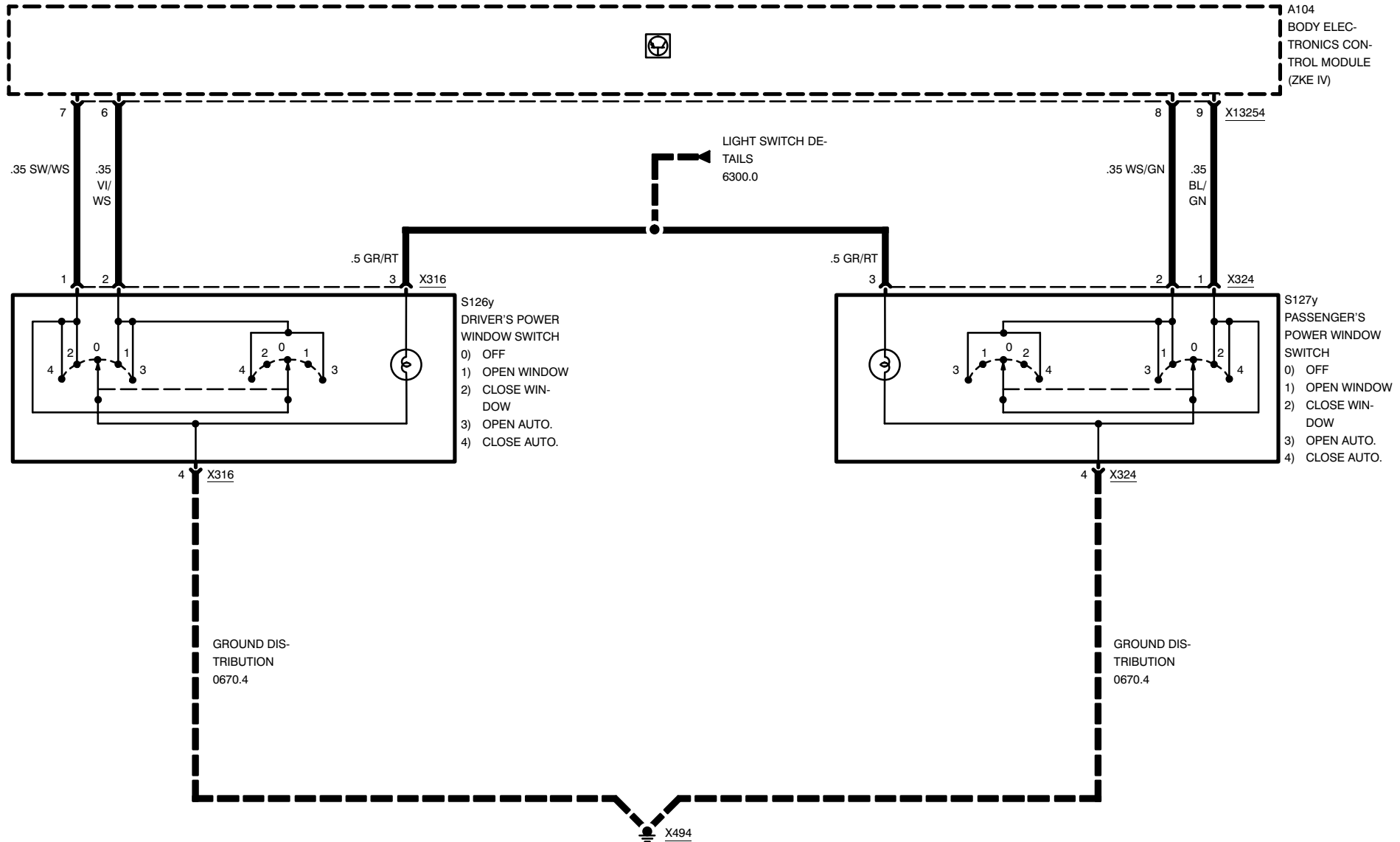
1999



ZKE POWER WINDOWS (FH)

INPUT DETAILS

Z3



09/98

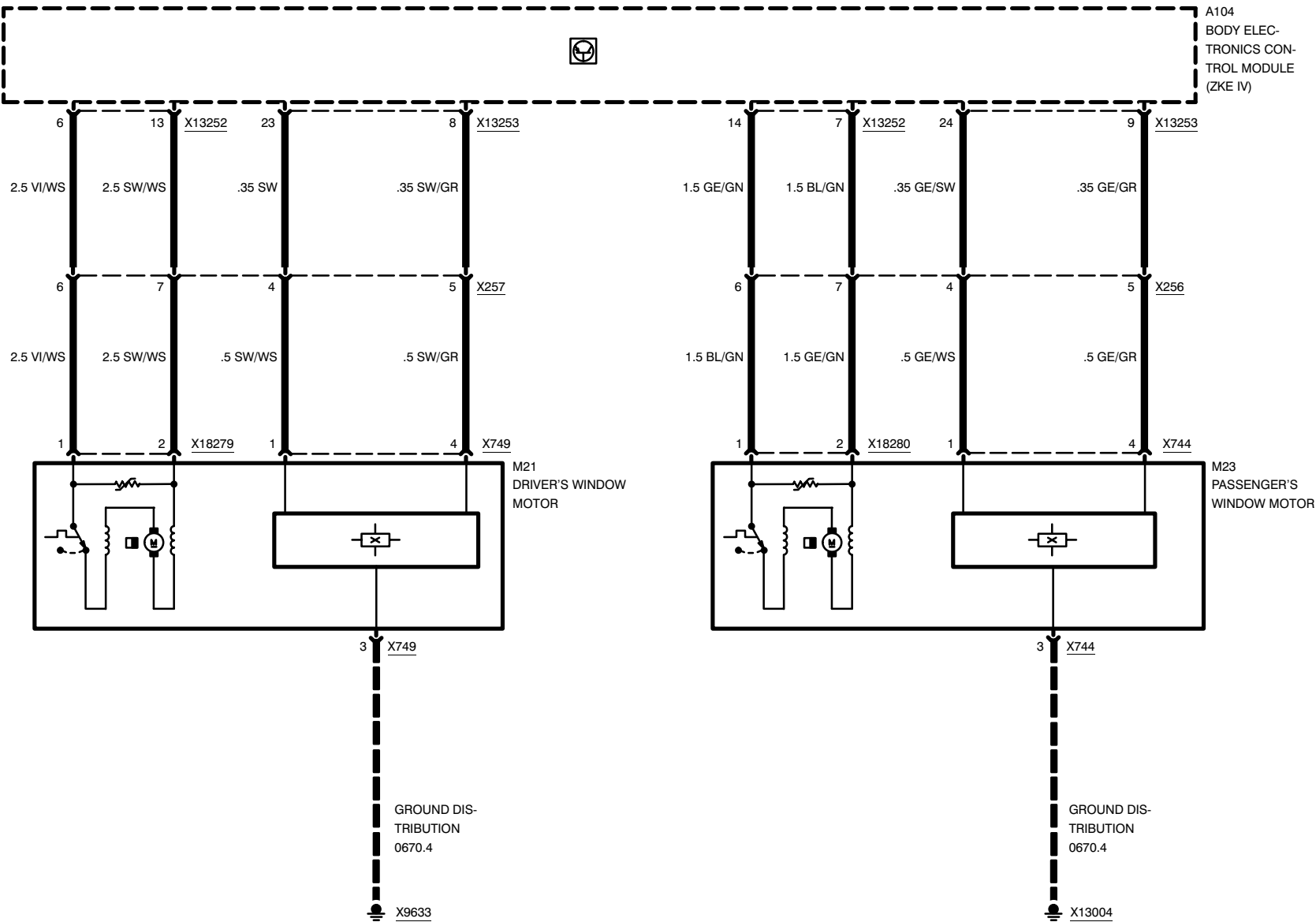
5133.0-01

1999



ZKE POWER WINDOWS (FH)

OUTPUT DETAILS



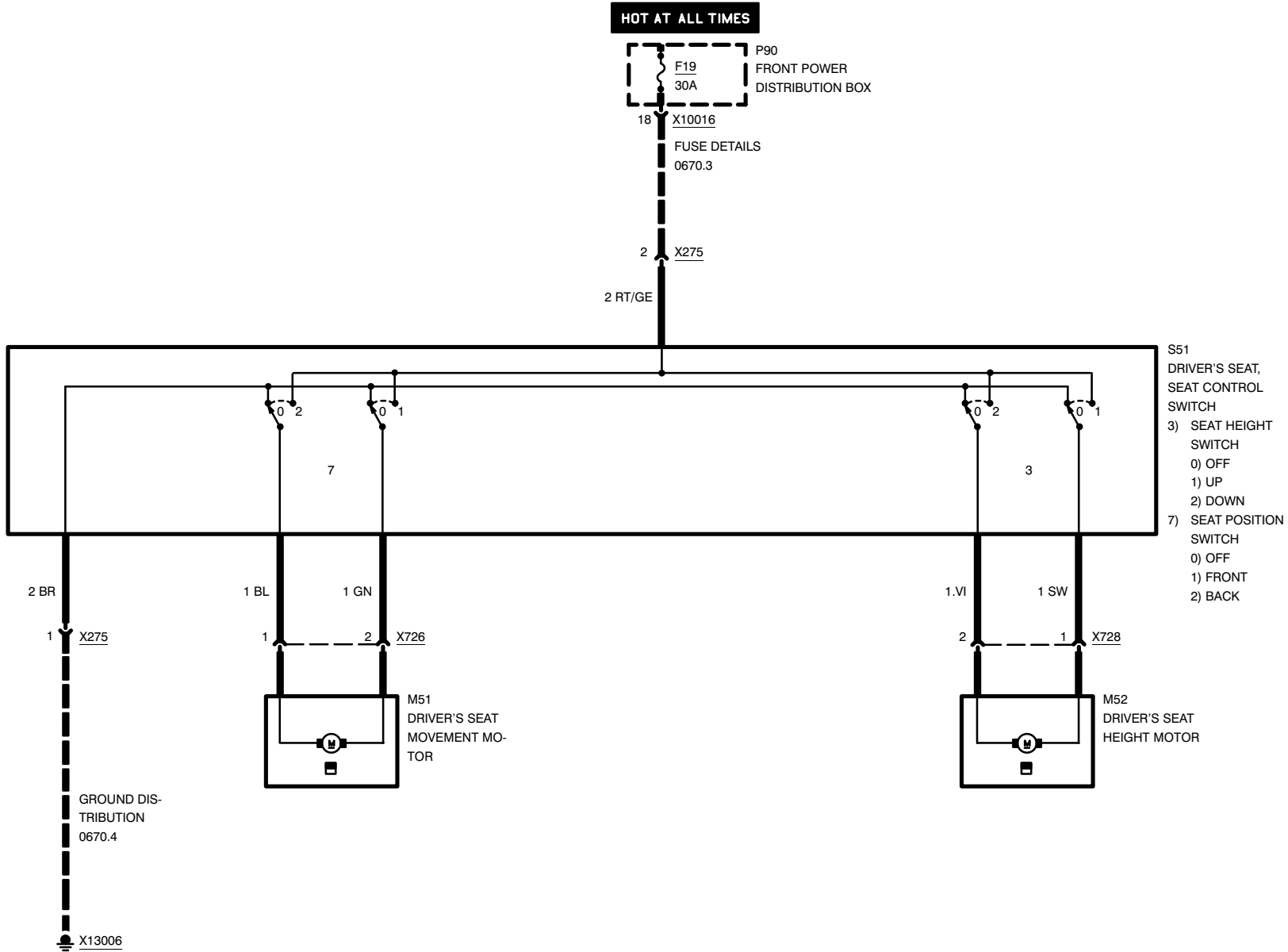
09/98

5133.0-02

1999



POWER SEATS DRIVER'S SEAT



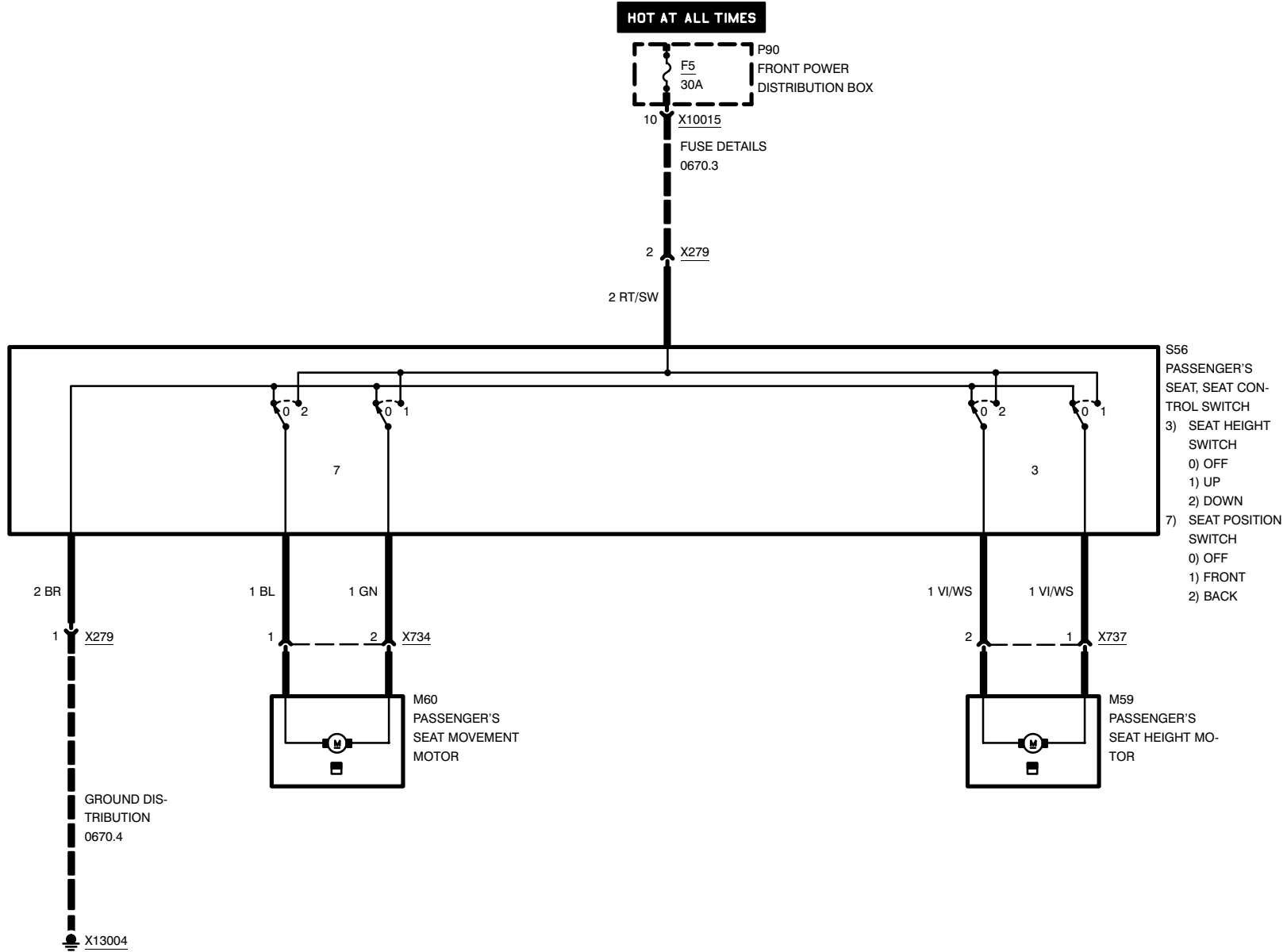


POWER SEATS PASSENGER'S SEAT

09/98

5200.0-01

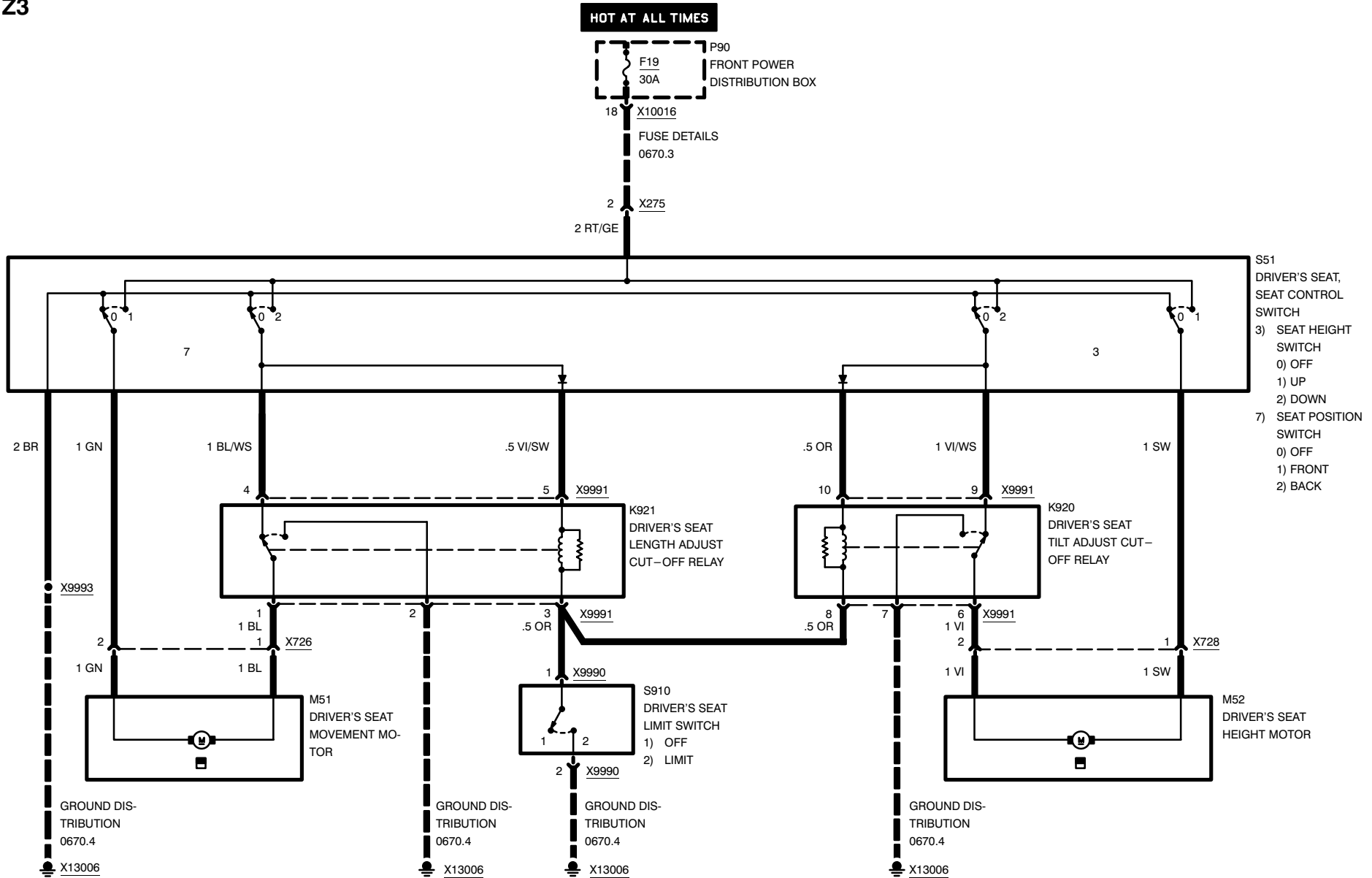
1999





POWER SEATS DRIVER'S SEAT

SPORT SEATS



09/98

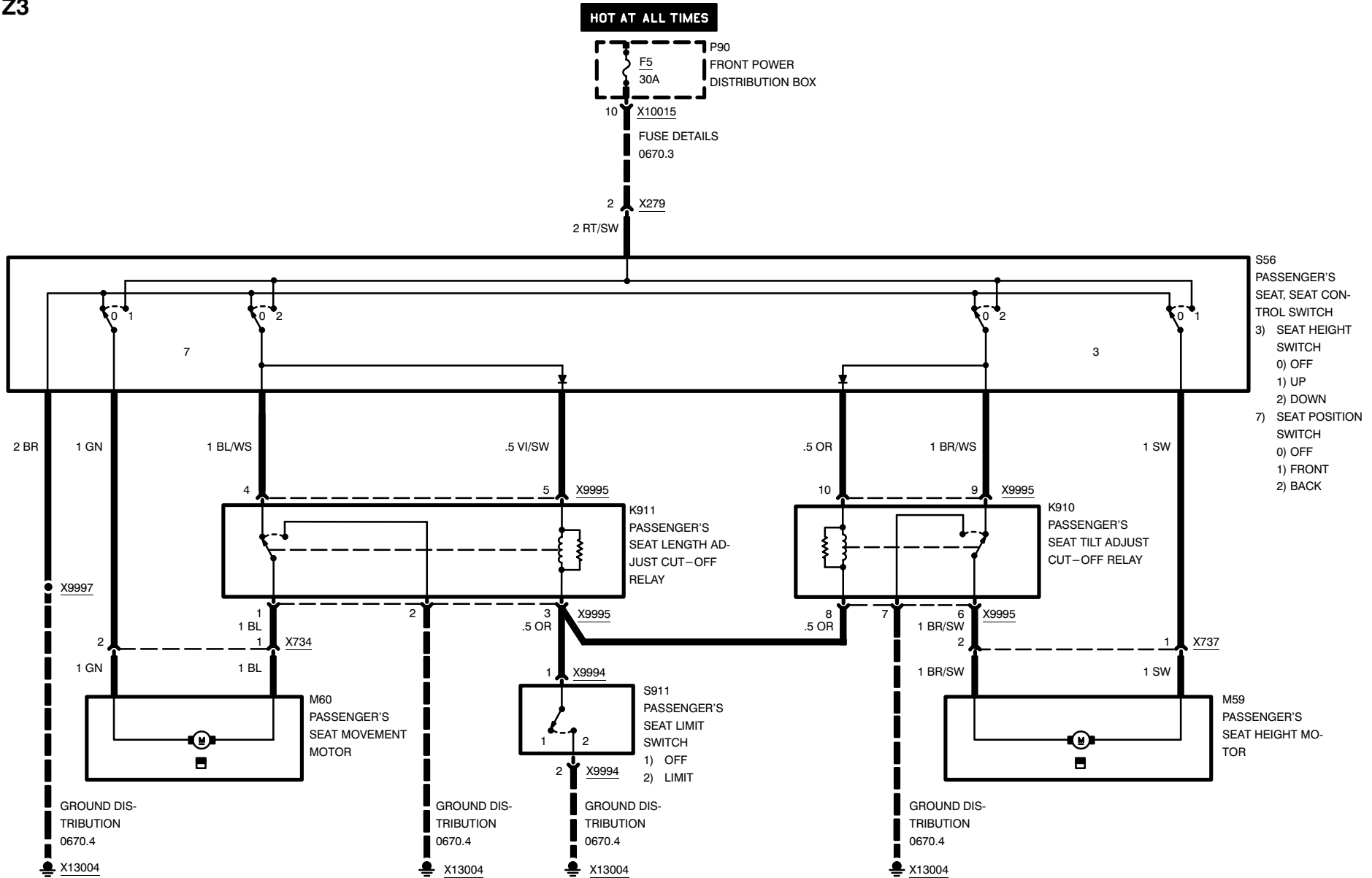
5200.0-02

1999



POWER SEATS PASSENGER'S SEAT

SPORT SEATS

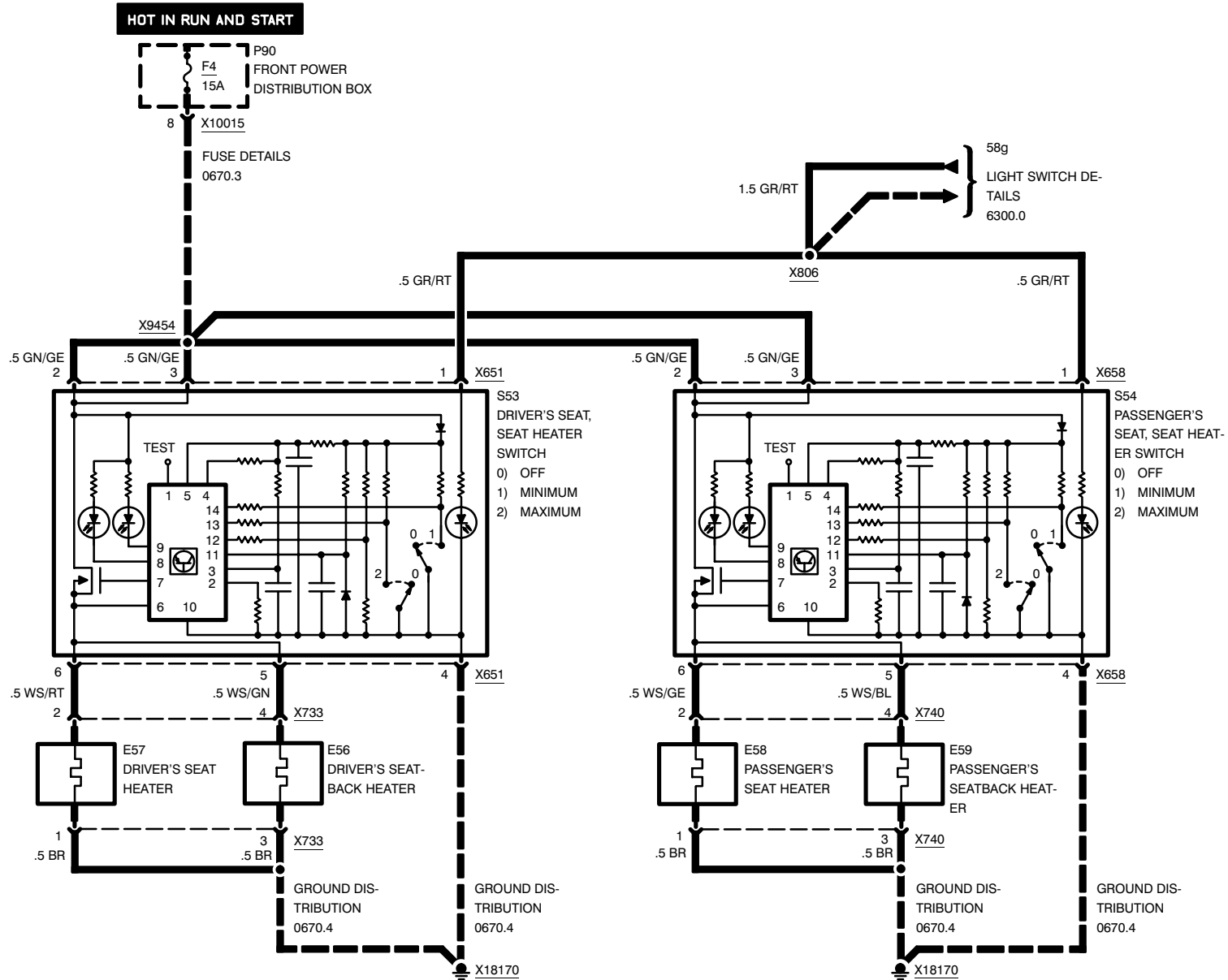


09/98

5200.0-03

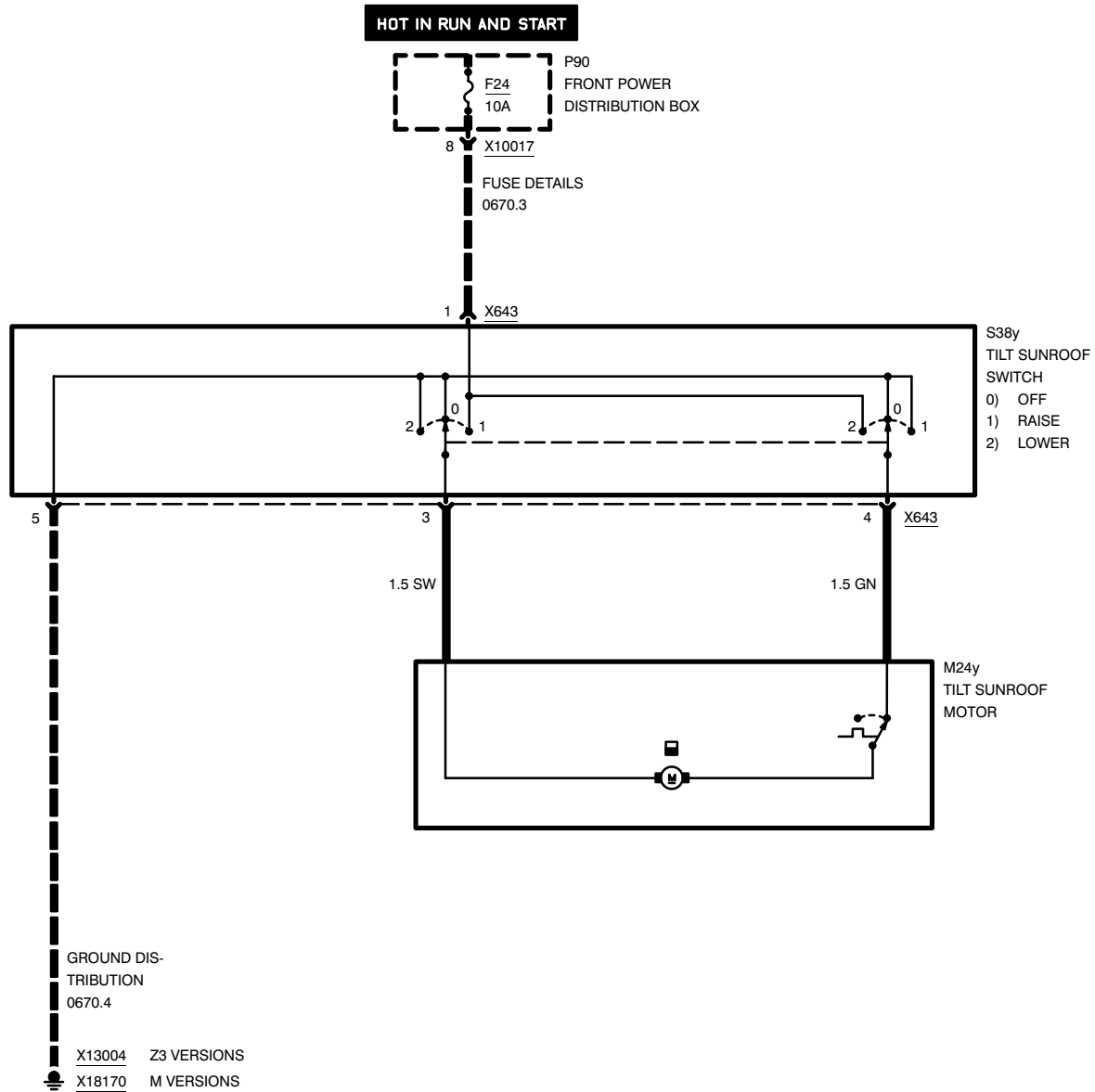
1999

HEATED SEATS

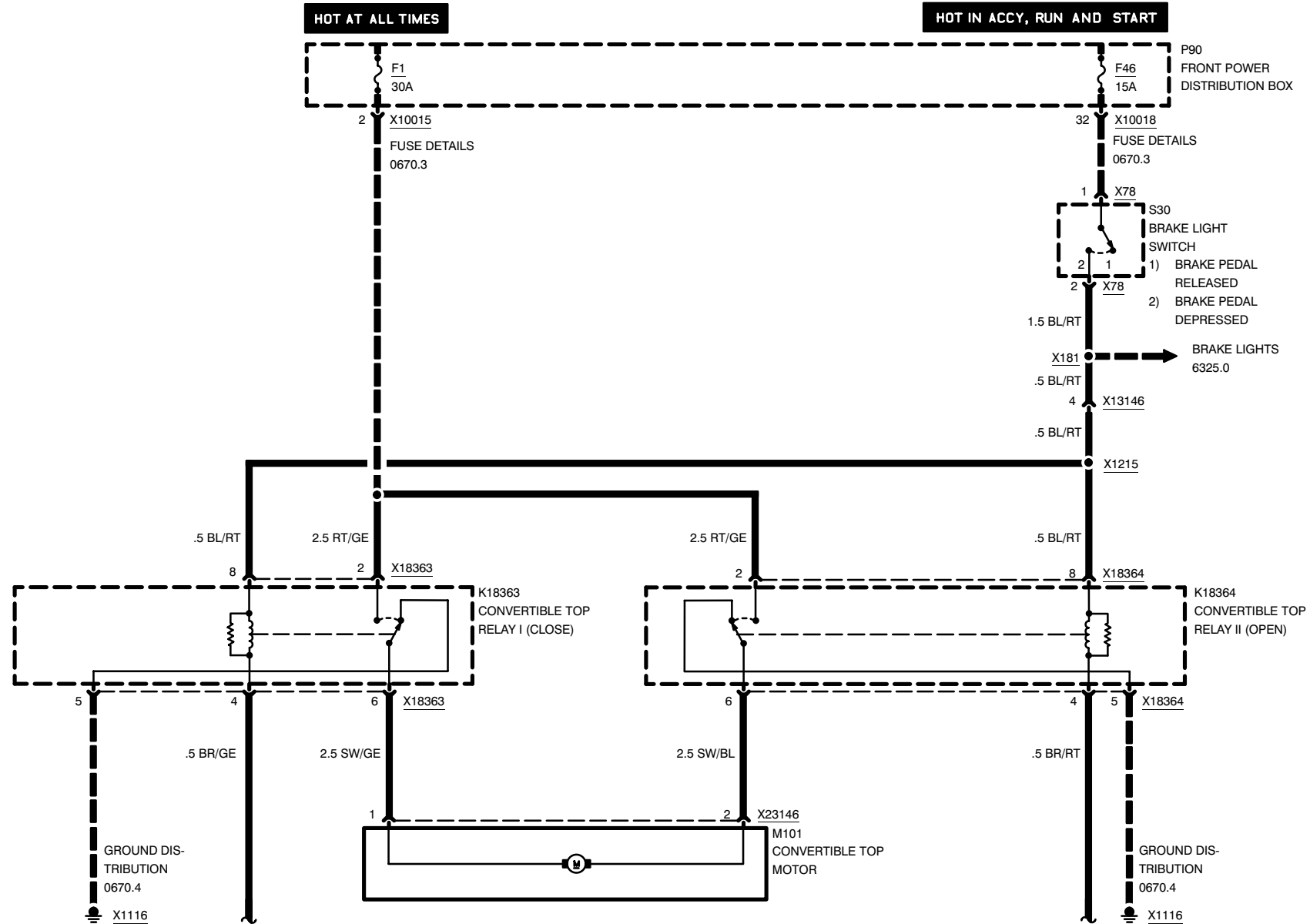


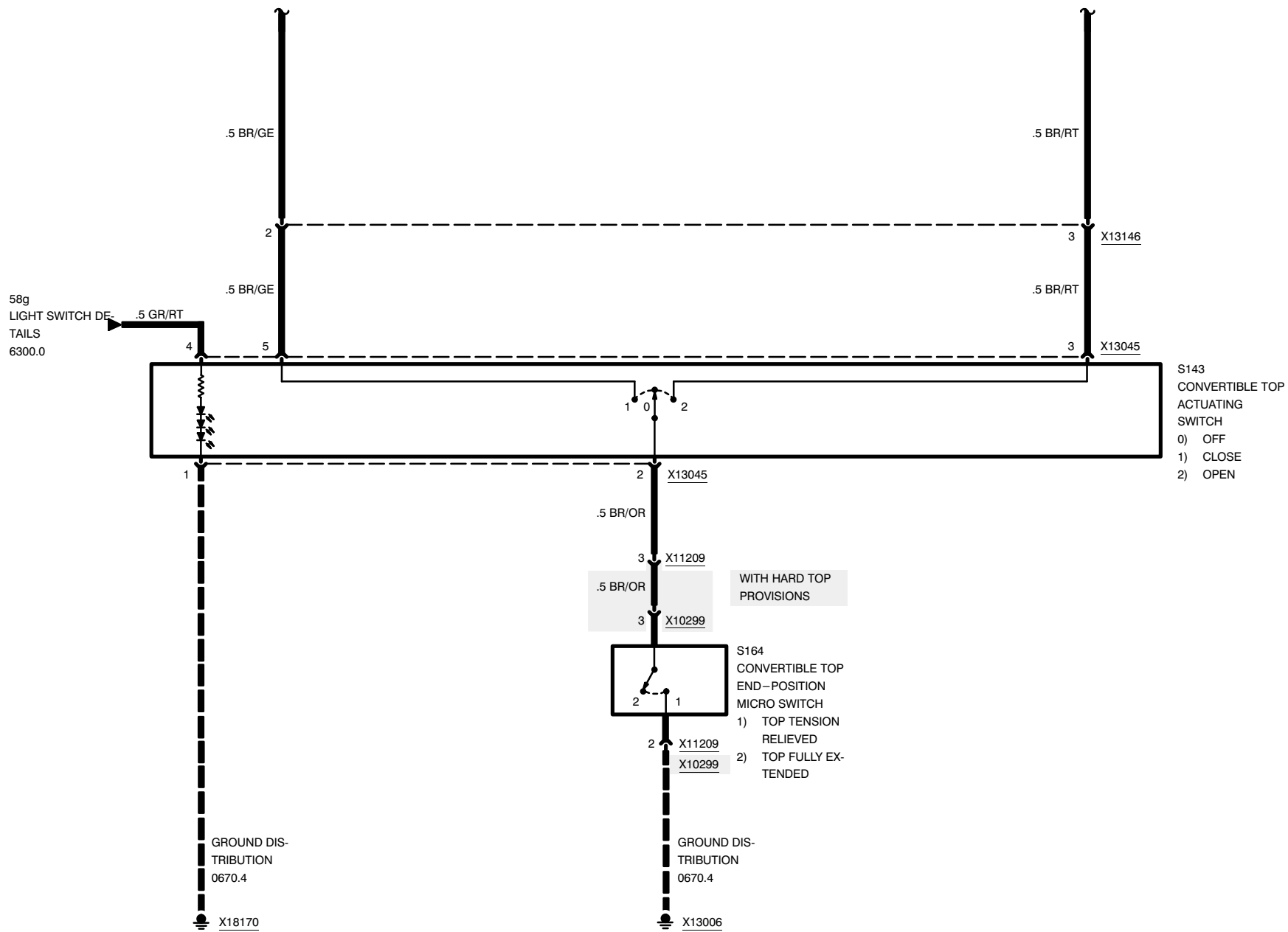


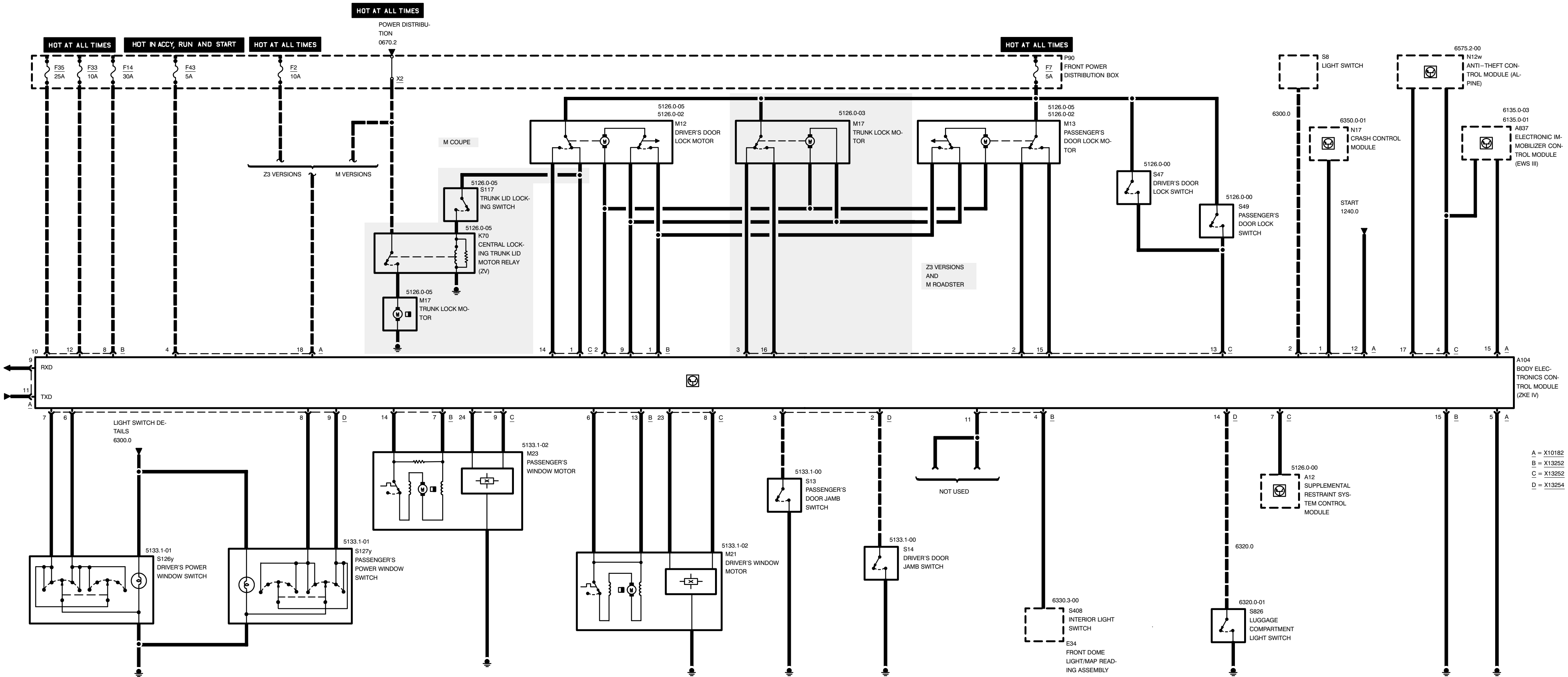
POWER TILT SUNROOF



ELECTRO-MECHANICAL CONVERTIBLE TOP

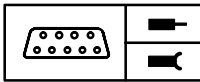








Z3



Pin Assignments

F = X10182 18 Pins, black

G = X13252 15 Pins, black

H = X13253 26 Pins, yellow

I = X13254 26 Pins, green

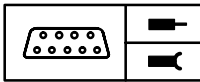
X10182

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

E = Input, A = Output, M = Ground



Z3



Pin Assignments

X13252

Pin	Type	Description/Function	Connection
1	A	Central arrest signal	Lock motors
2	A	Unlock signal	Lock motors
3		Not used	
4	A	Automatic interior light signal	Interior light
5		Not used	
6	A	Voltage supply	Power window motor driver's door
7	A	Voltage supply	Power window motor passenger's door
8	E	Power supply	Front power distribution box, fuse 14
9	A	Lock signal	Lock motors
10	E	Power supply	Front power distribution box, fuse 35
11	A	Consumer cut-off signal	Not used
12	E	Power supply	Front power distribution box, fuse 33
13	E	Motor signal	Power window motor driver's door
14	E	Motor signal	Power window motor passenger's door
15	M	Ground	Ground point

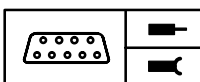
X13253

Pin	Type	Description/Function	Connection
1	E	Unlock signal	Door lock motor driver's door
2	E	Unlock signal	Door lock motor passenger's door
3	E	Unlock signal	Trunk lock motor
4	E	Data signal	Anti-theft system control module (Alpine)
5		Not used	
6		Not used	
7	E	Crash signal	Supplemental restraint system control module
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



Z3

**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 lock motor
17	E	Data signal	Anti-theft system control module (Alpine)
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23	A	Plus supply (revolution)	Power window's motor driver's side
24	A	Voltage supply (revolution)	Power window's motor passenger's side
25		Not used	
26		Not used	

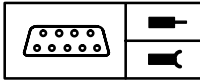
X13254

Pin	Type	Description/Function	Connection
1		Not used	
2	E	Door signal	Door jamb switch driver's door
3	E	Door signal	Door jamb switch passenger's door
4		Not used	
5		Not used	
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		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground



Z3

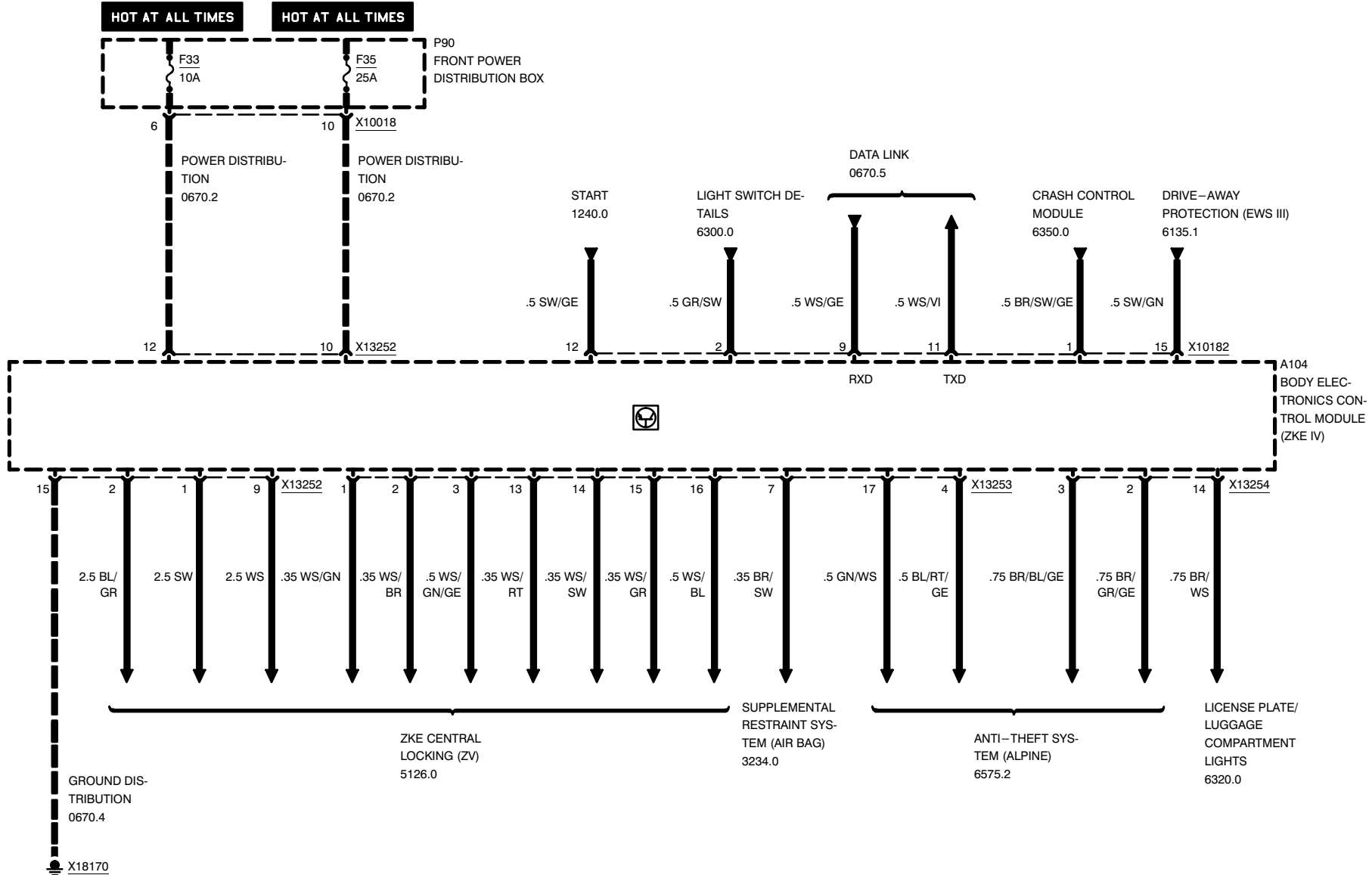


Pin Assignments

Pin	Type	Description/Function	Connection
13		Not used	
14	E	Luggage compartment signal	Luggage compartment light switch
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	

E = Input, A = Output, M = Ground

CENTRAL BODY ELECTRONICS (ZKE IV)





CENTRAL BODY ELECTRONICS (ZKE IV)

HOT AT ALL TIMES

POWER DISTRIBUTION
0670.2

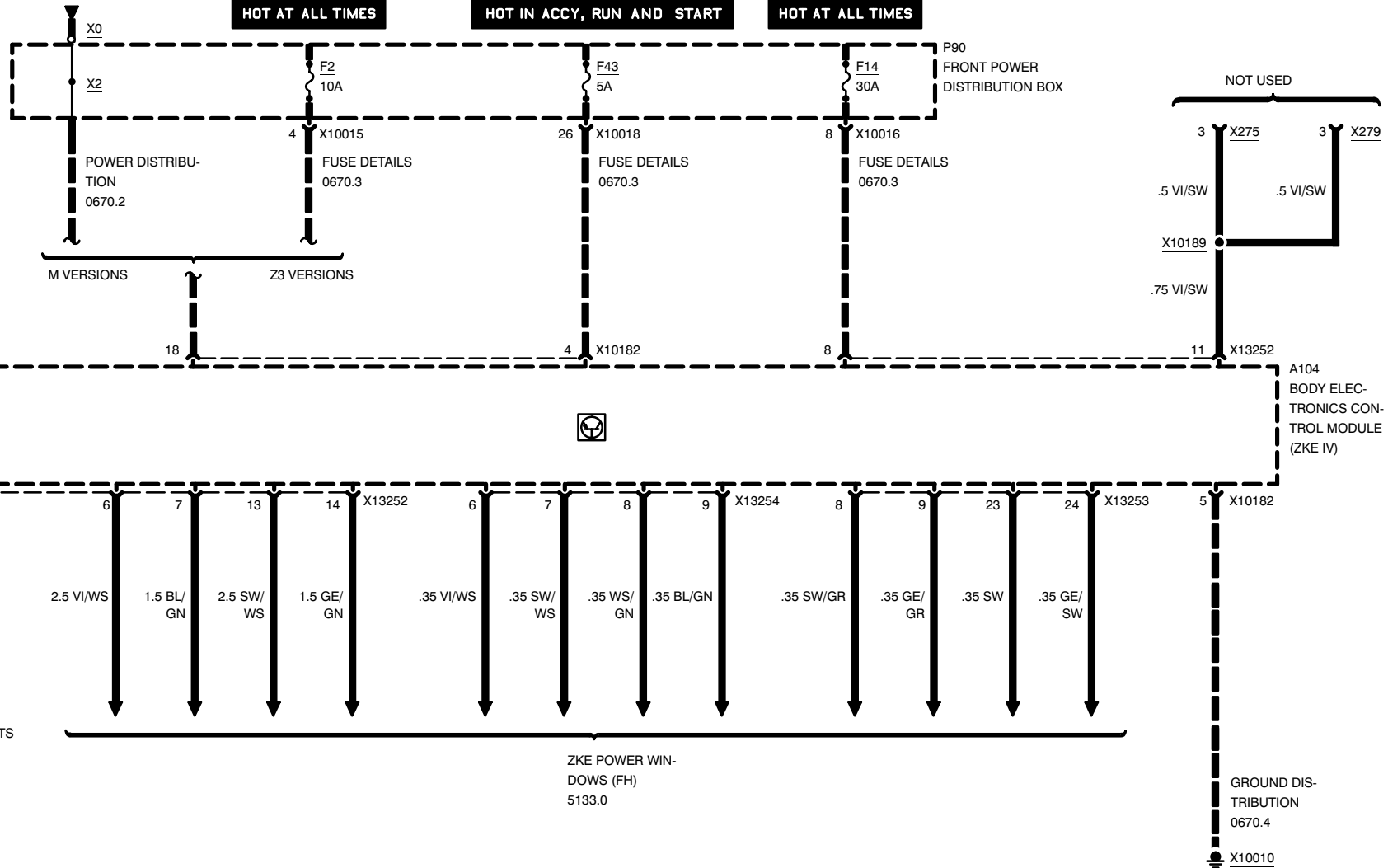
HOT AT ALL TIMES

HOT IN ACCY, RUN AND START

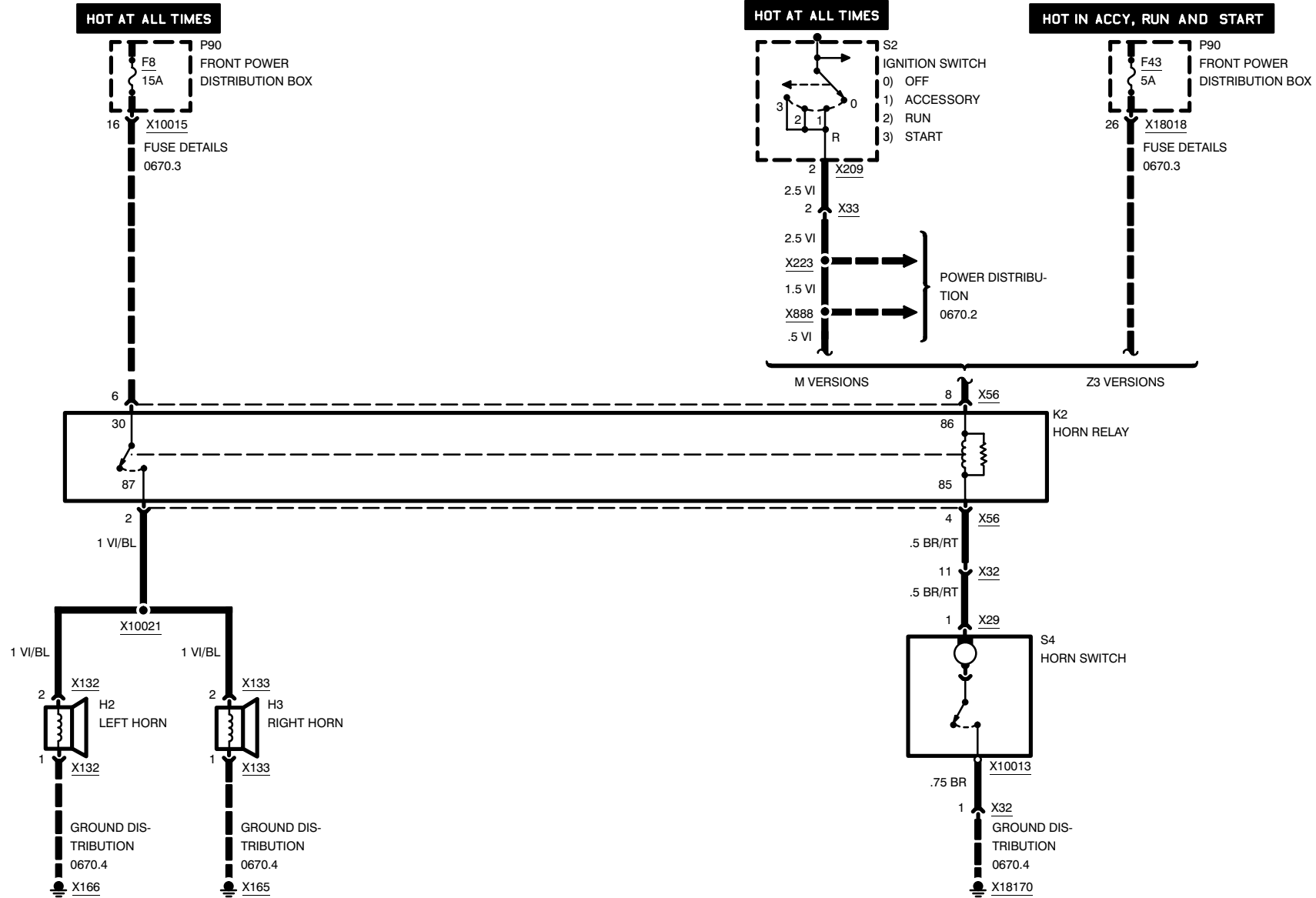
HOT AT ALL TIMES

P90
FRONT POWER
DISTRIBUTION BOX

NOT USED



HORN



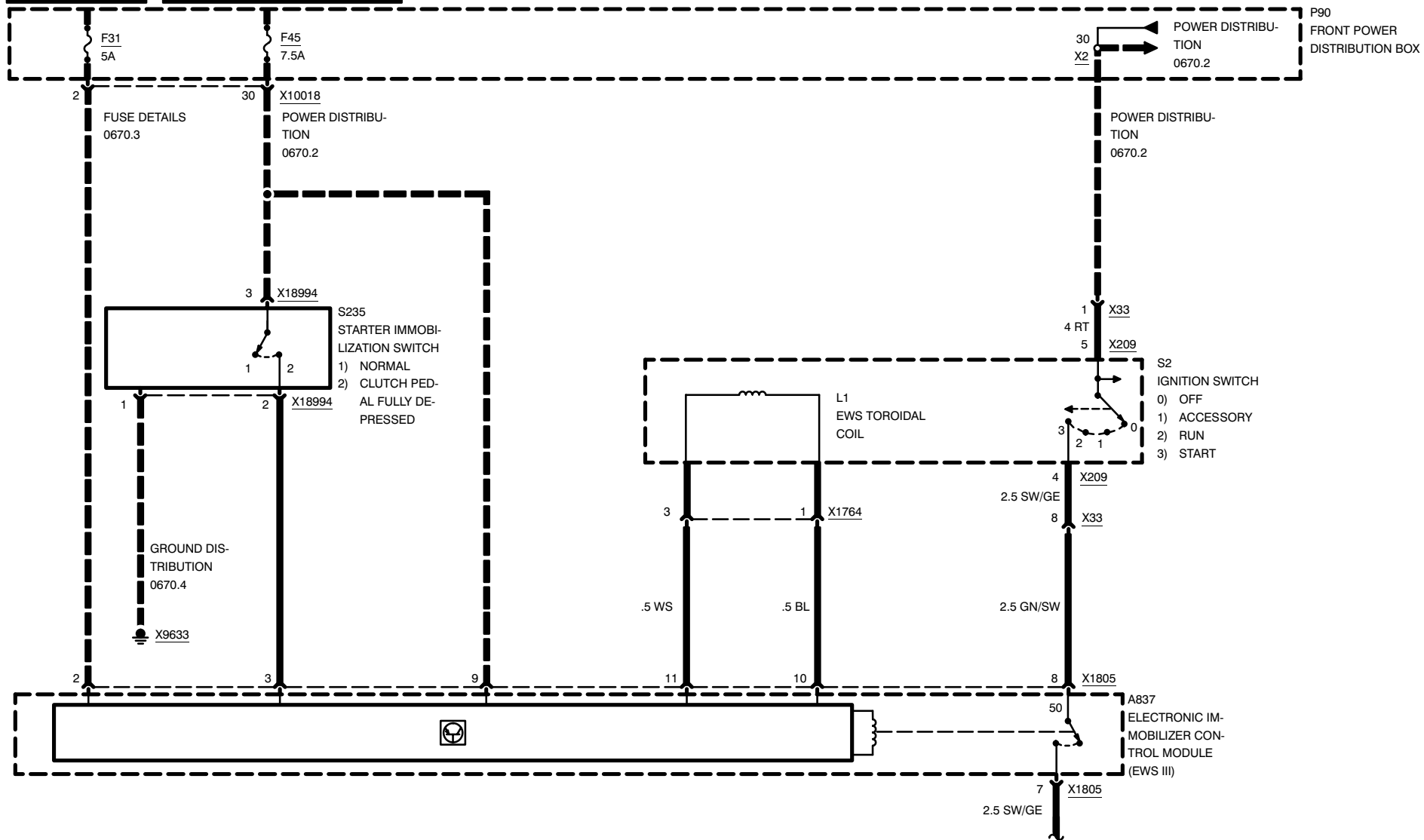


DRIVE-AWAY PROTECTION (EWS III)

M VERSIONS

HOT AT ALL TIMES

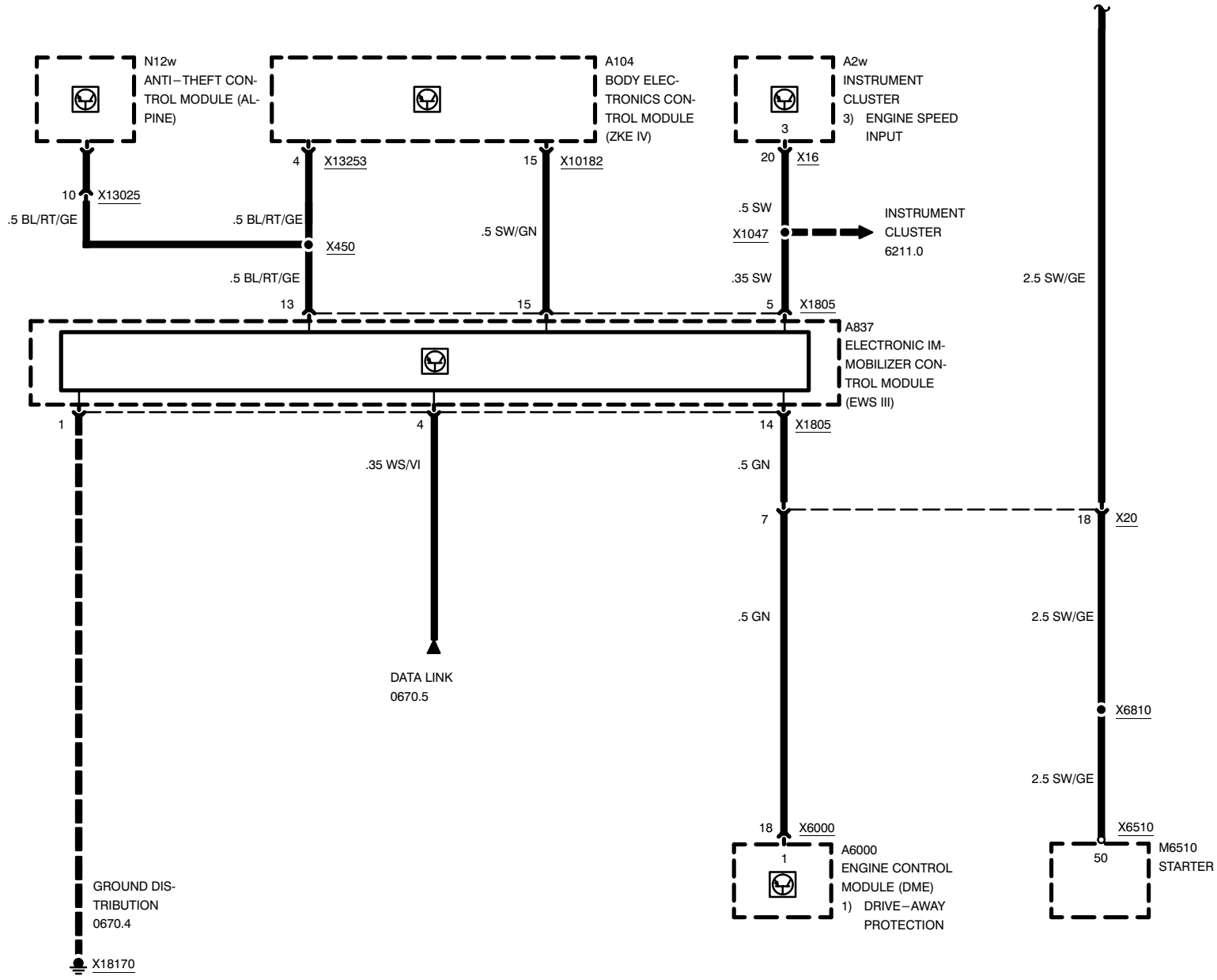
HOT IN ACCY, RUN AND START



09/98

6135.1-00

1999

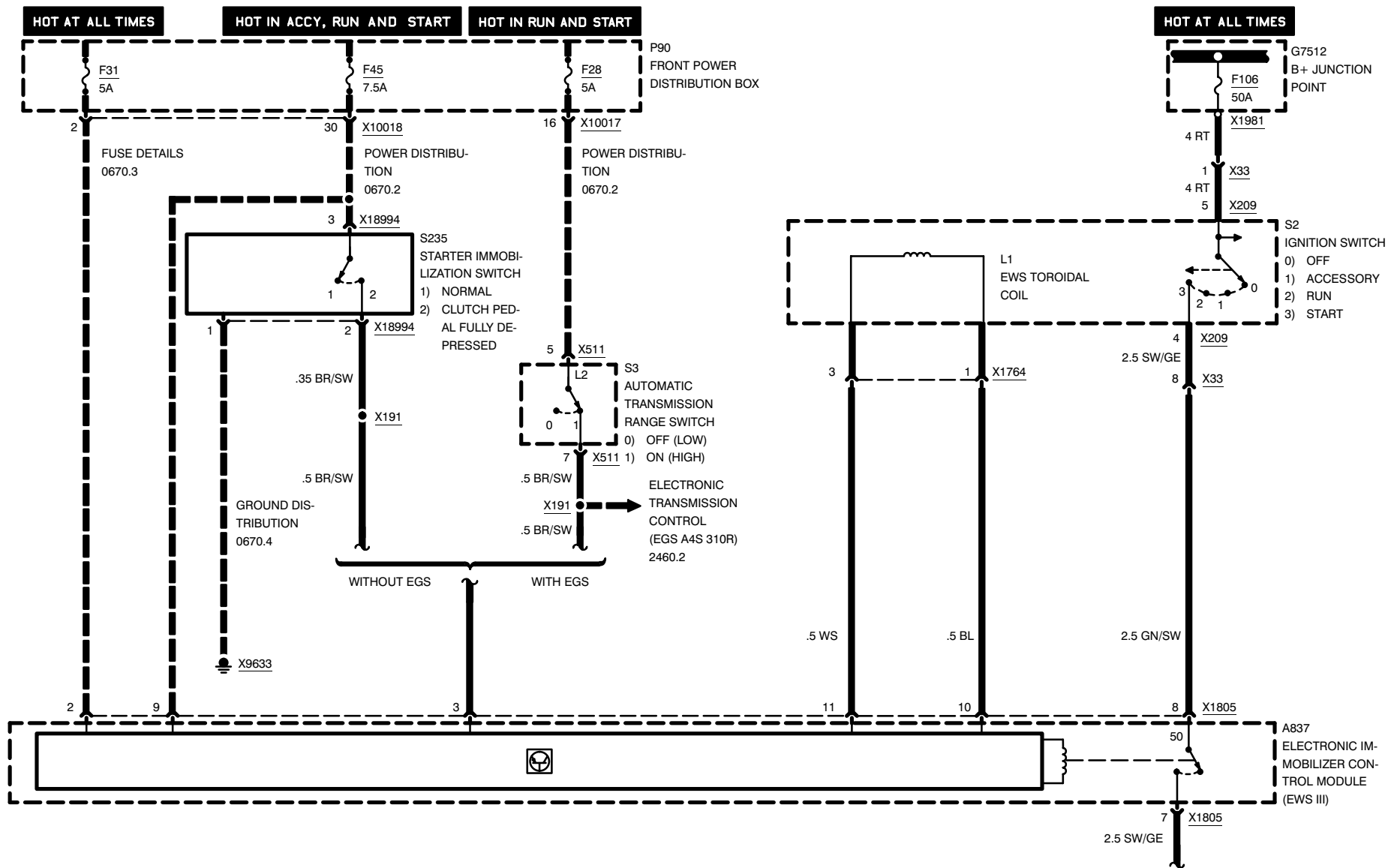




DRIVE-AWAY PROTECTION (EWS III)

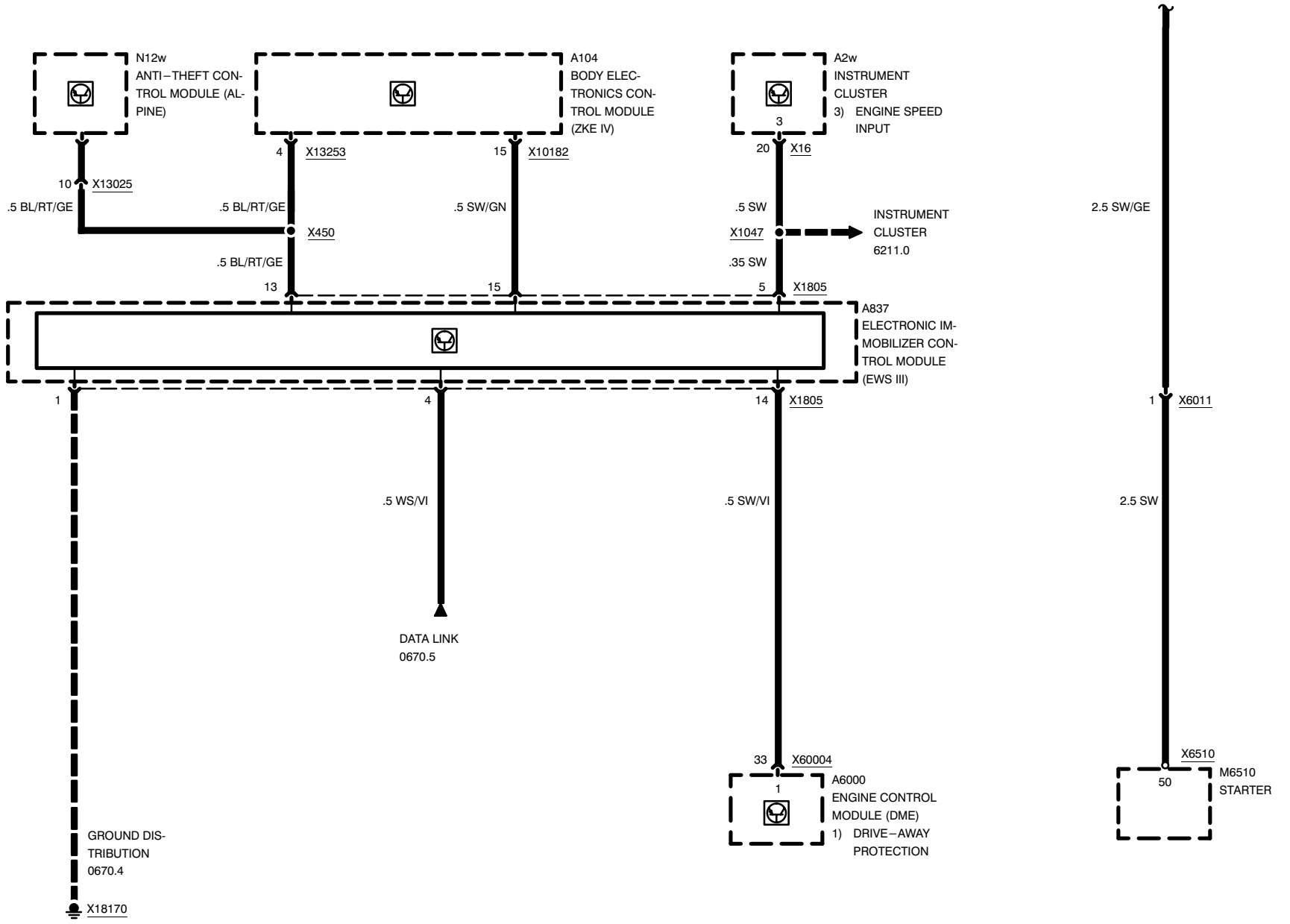
Z3 VERSIONS

09/98



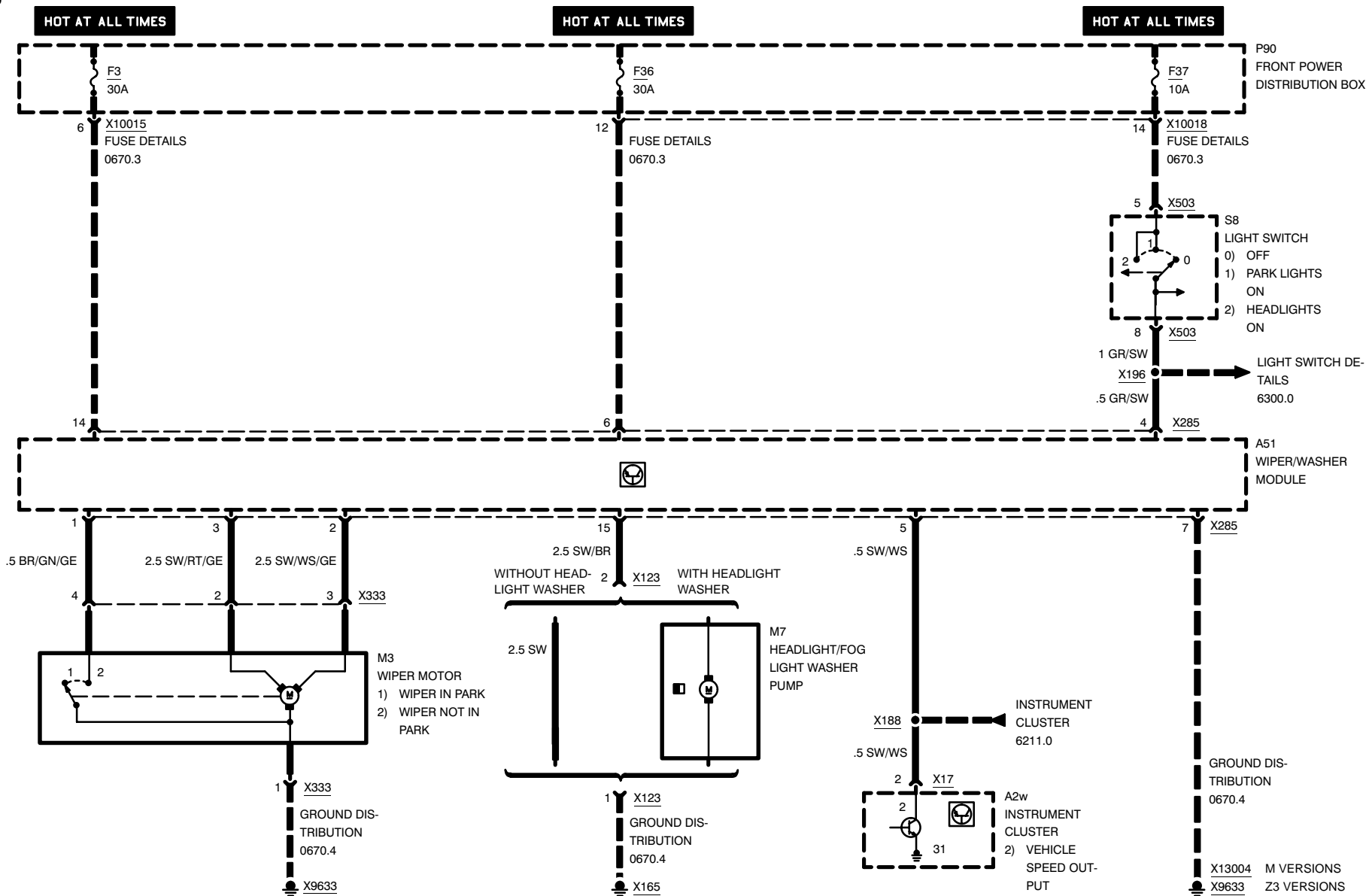
6135.1-02

1999



WIPER/WASHER MODULE (WWM)

HIGH



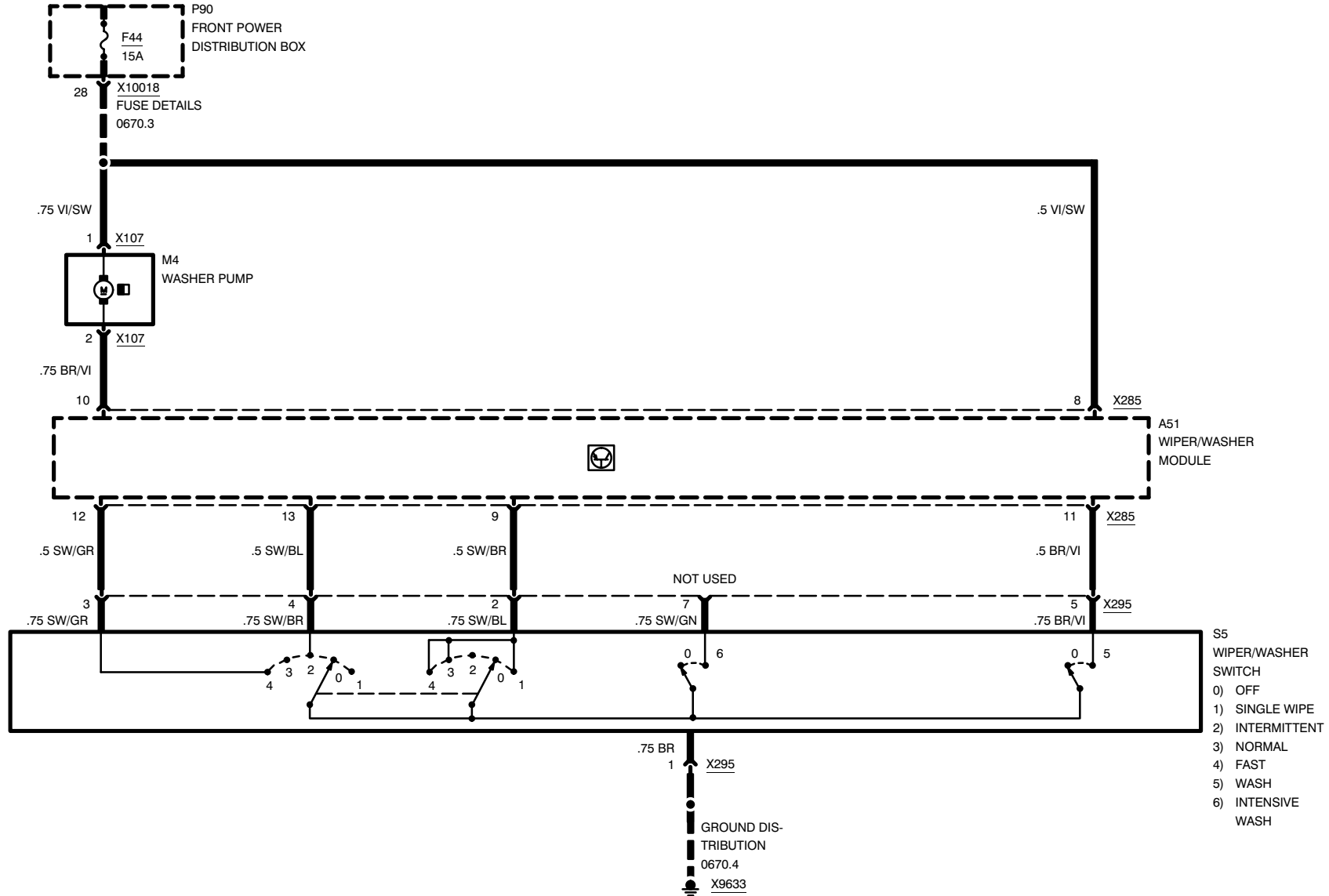


WIPER/WASHER MODULE (WWM)

ROADSTER

HIGH

HOT IN ACCY, RUN AND START



09/98

6160.1-01

1999

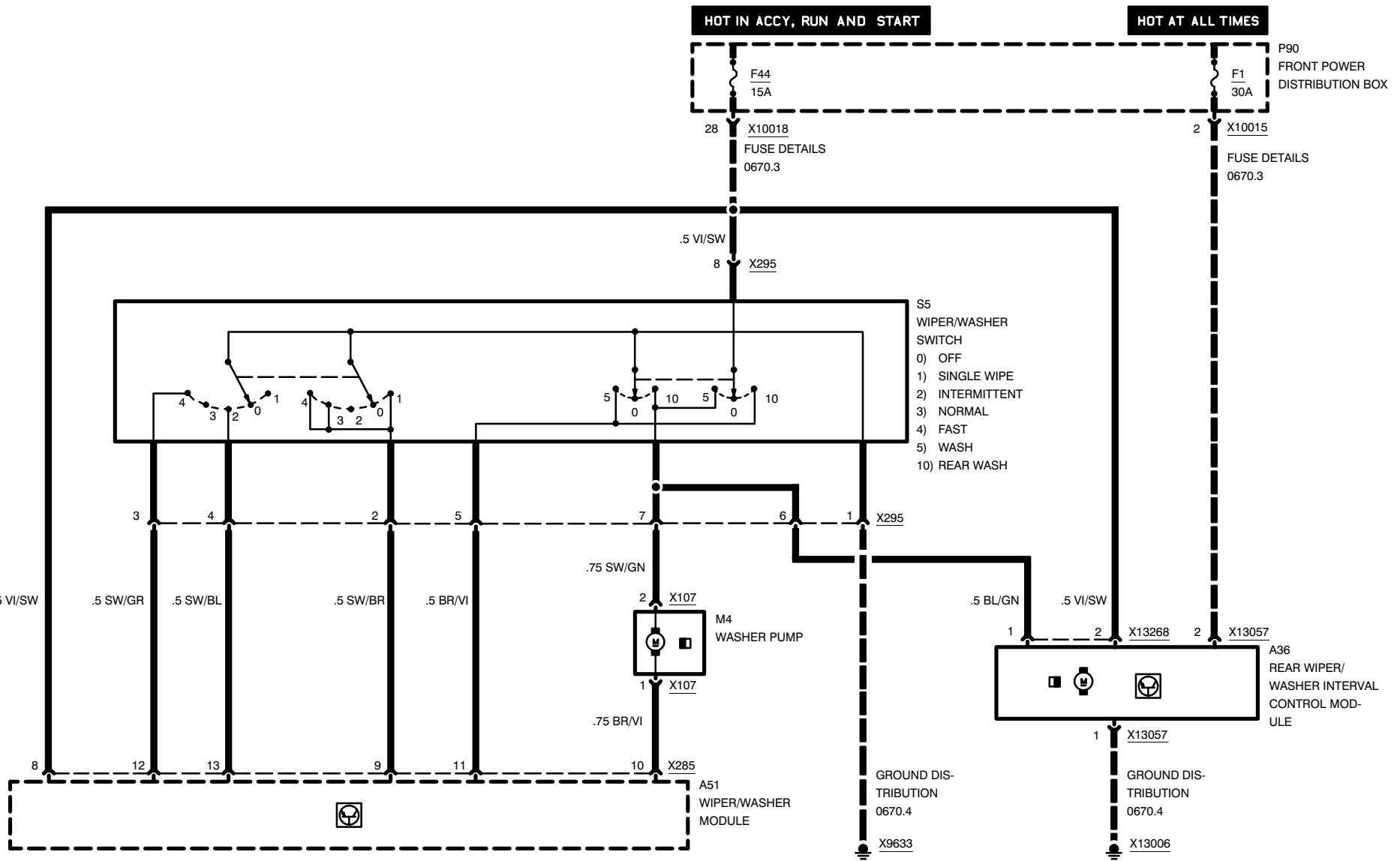


Z3

WIPER/WASHER MODULE (WWM)

WIPER/WASHER (HIGH)

COUPE



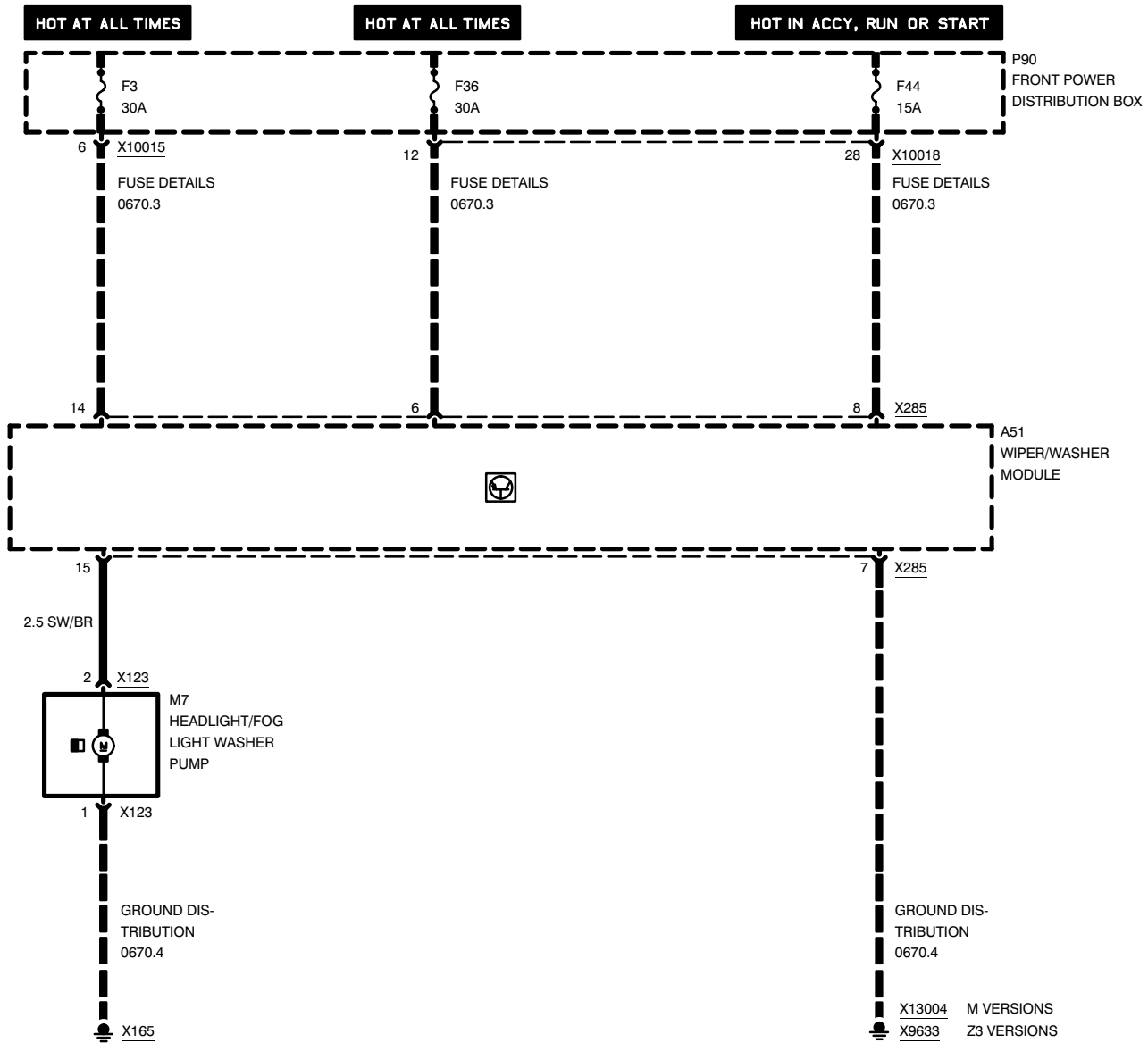
09/98

6160.1-02

1999



HEADLIGHT WASHER (SRA)



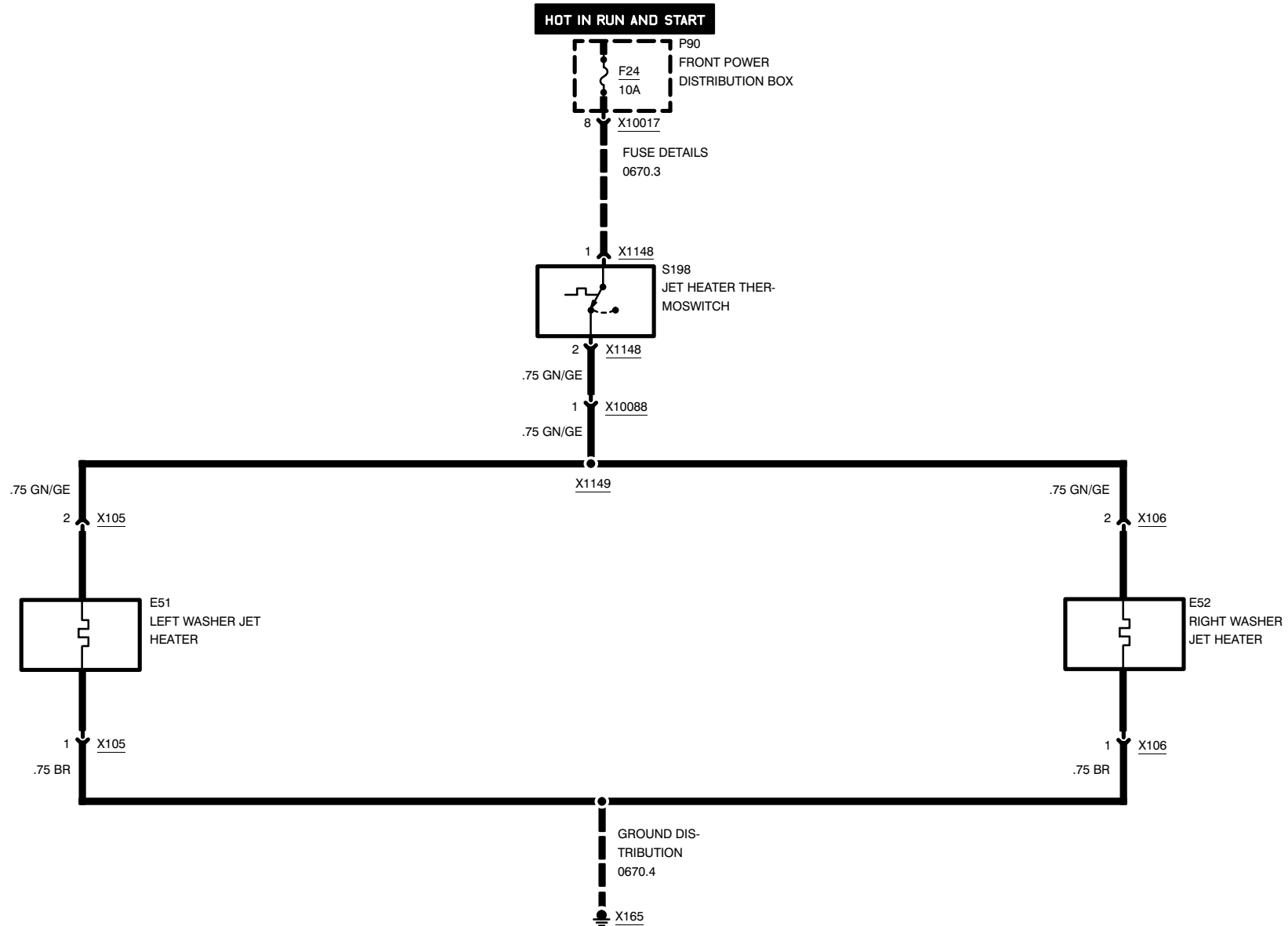
09/98

6167.1-00

1999



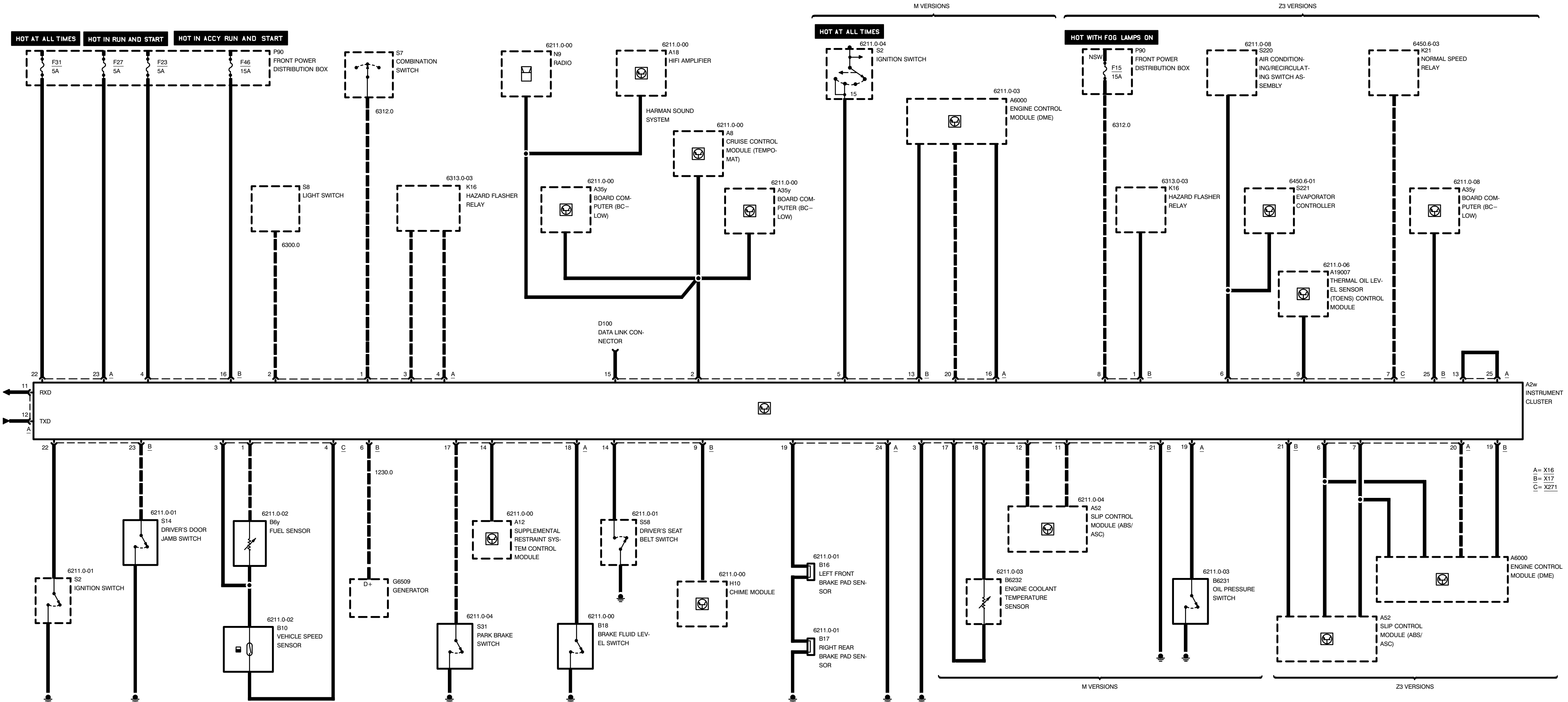
WINDSHIELD WASHER JET HEATERS



09/98

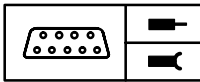
6169.0-00

1999





Z3



Pin Assignments

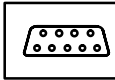
X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instrument illumination power	Light switch (dimmer)
3	E	Right turn signal indicator control	Hazard flasher relay
4	E	Left turn signal indicator control	Hazard flasher relay
5		Not used	
6	E/A	CAN bus high	Engine/slip control module (Z3 Versions)
7	E/A	CAN bus low	Engine/slip control module (Z3 Versions)
8		Not used	
9		Not used	
10		Not used	
11	A	Diagnosis RXD signal	Data link connector (M Versions)
12	E/A	Diagnosis TXD signal	Data link connector
13	E/A	CAN jumper	Instrument cluster (Z3 Versions)
14	E	Airbag warning lamp (SRS) control	Supplemental restraint system control module
15		Not used	
16	E	"Check engine" indicator control	Engine control module (DME) (M Versions)
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		Not used	
22	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
23	E	Voltage supply, terminal 15 for indicator and warning lamps	Front power distribution box, fuse 27
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground point
25	E/A	CAN jumper	Instrument cluster (Z3 Versions)
26		Not used	

E = Input, A = Output, M = Ground



Z3



Pin Assignments

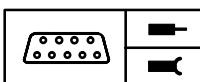
X17

Pin	Type	Description/Function	Connection
1	E	Trailer turn signal indicator control	Hazard flasher relay (Z3 Versions)
2	A	Vehicle speed signal	Various control modules
3	M	Ground supply, terminal 31 for indicator and warning lamps	Ground point
4	E	Voltage supply, terminal 15 for instrument cluster electronics	Front power distribution box, fuse 23
5	E	Voltage supply, terminal 15 for battery charge indicator	Ignition switch, terminal 15 (M Versions)
6	E	Ground supply, terminal 61 for battery charge indicator	Generator
7		Not used	
8	E	Fog light indicator control	Front power distribution box, fuse 15 (Z3 Versions)
9	A	Sound tone signal	Chime module
10		not used	
11	E	Slip control system warning lamp (ABS) control	Slip control module (ABS/ASC) (M Versions)
12	E	ASC signal	ASC control module (M Versions)
13	A	Ti-measurement signal (fuel consumption)	Engine control module (DME) (M Versions)
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 (M Versions)
18	E	Coolant temperature sensor (+)	Coolant temperature sensor (M Versions)
19	E	Oil pressure warning lamp control	Oil pressure switch (M Versions) Engine control module (Z3 Versions)
20		Not used	
21	M	Ground (ASC)	Ground point (M Versions)
21	E	ABS warning lamp (ABS)	Slip control module (ABS/ASC) (Z3 Versions)
22	E	Ignition key warning/audible ignition key warning	Ignition switch

E = Input, A = Output, M = Ground



Z3



Pin Assignments

Pin	Type	Description/Function	Connection
23	E	Driver's door open	Driver's door jamb switch
24		Not used	
25	E	Fuel consumption signal	Board computer (Z3 Versions)
26		Not used	

X271

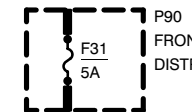
Pin	Type	Description/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensor and vehicle speed sensor	Fuel tank sensor and vehicle speed sensor
4	E	Position signal TW	Vehicle speed sensor
5		Not used	
6	E	A/C-ON-signal	Air condition switch (Z3 Versions)
7	E	Activate A/C	Pressure switch, normal speed relay (Z3 Versions)
8		Not used	
9	E	Oil level signal	Thermal oil level sensor (TOENS) control module (Z3 Versions)
10		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground

INSTRUMENT CLUSTER

INDICATORS

HOT AT ALL TIMES



P90
FRONT POWER
DISTRIBUTION BOX
FUSE DETAILS
0670.3

X10018
FUSE DETAILS
0670.3



2



2



2



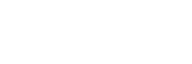
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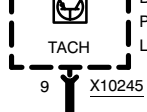
2



2



HOT AT ALL TIMES



A35y
BOARD COM-
PUTER (BC-
LOW)
TACH

9 X10245



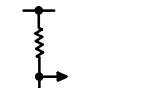
.35 SW/WS



Z3 VERSIONS



M VERSIONS



.5 SW/WS



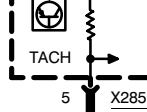
.5 SW/WS



.5 SW/WS

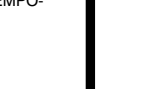


HOT AT ALL TIMES



A51
WIPER/WASHER
MODULE
TACH

5 X285



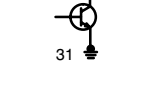
.5 SW/WS



.5 SW/WS



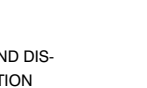
.5 SW/WS



.5 SW/WS



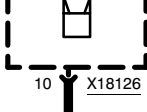
.5 SW/WS



.5 SW/WS



HOT AT ALL TIMES

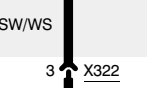


N9
RADIO

10 X18126



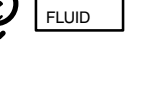
.5 SW/WS



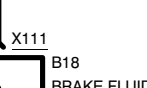
.5 SW/WS



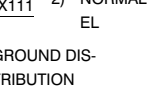
.5 SW/WS



.5 SW/WS



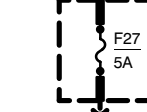
.5 SW/WS



.5 SW/WS



HOT IN RUN AND START



P90
FRONT POWER
DISTRIBUTION BOX
FUSE DETAILS
0670.3

14 X10017



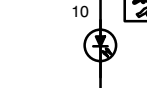
.5 SW/WS



.5 SW/WS



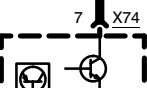
.5 SW/WS



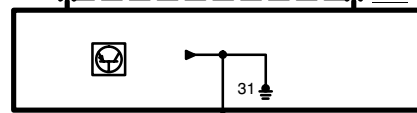
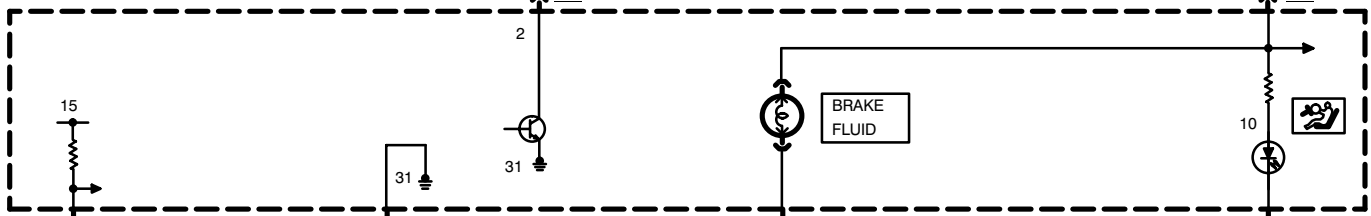
.5 SW/WS



.5 SW/WS



.5 SW/WS



H10
CHIME MODULE



GROUND DIS-
TRIBUTION
0670.4



BRAKE
FLUID

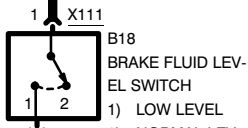
24 X10010



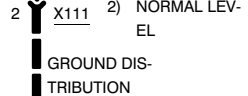
.35 BR/VI



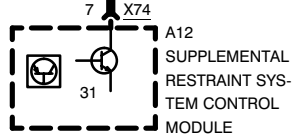
GROUND DIS-
TRIBUTION
0670.4



B18
BRAKE FLUID LEV-
EL SWITCH
1) LOW LEVEL
2) NORMAL LEV-
EL



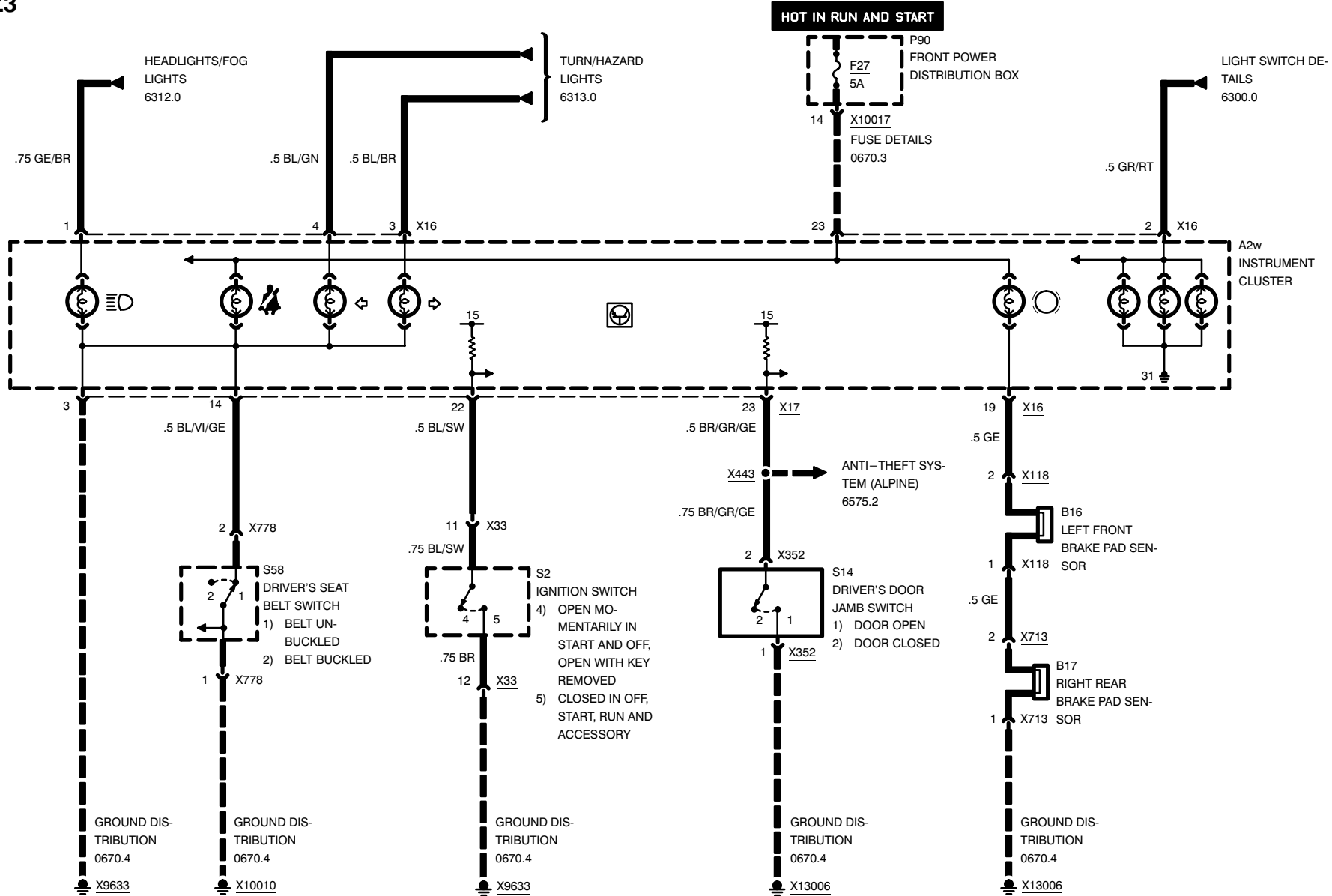
GROUND DIS-
TRIBUTION
0670.4



A12
SUPPLEMENTAL
RESTRAINT SYS-
TEM CONTROL
MODULE

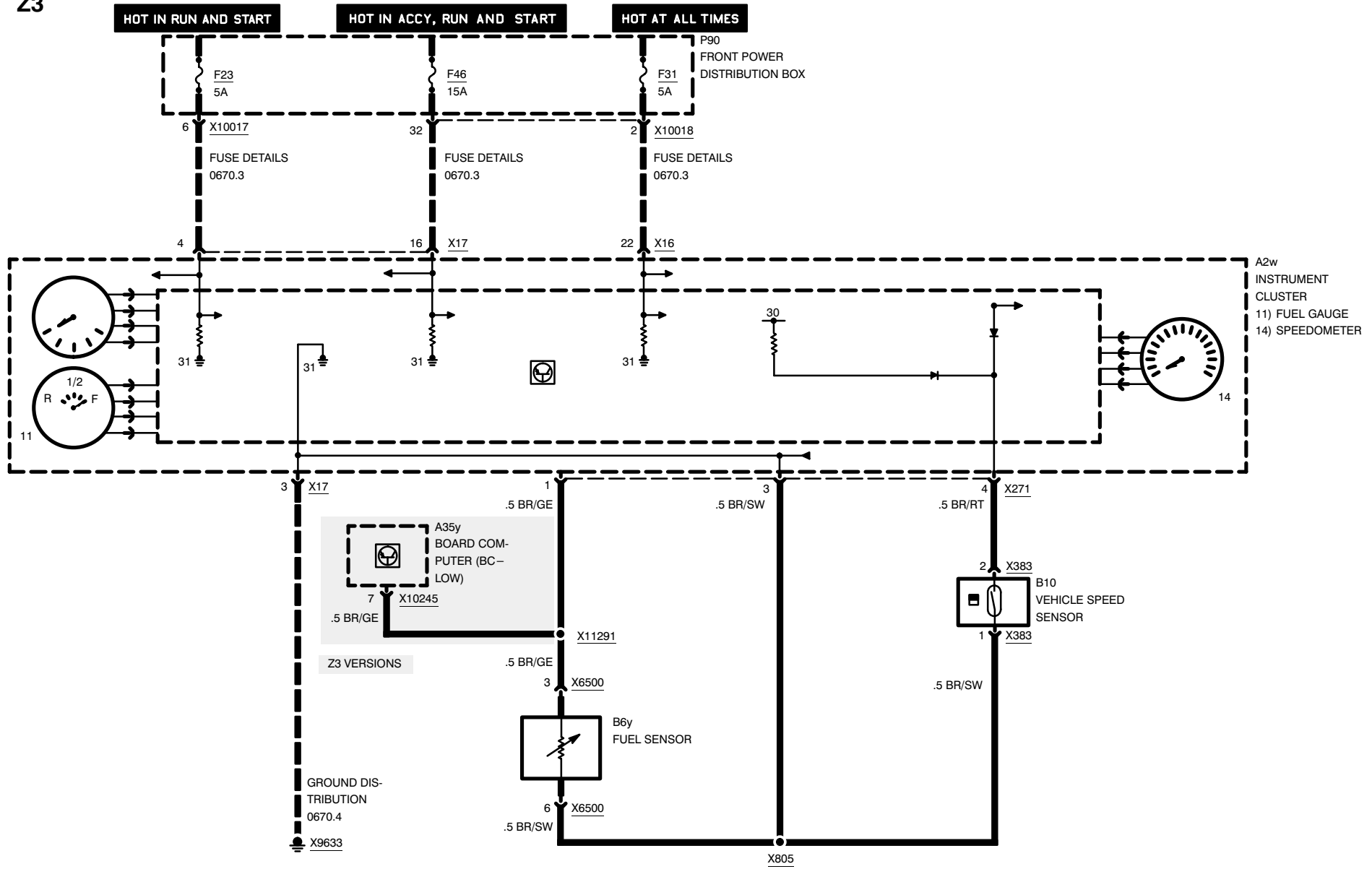


INSTRUMENT CLUSTER INDICATORS





INSTRUMENT CLUSTER INDICATORS



09/98

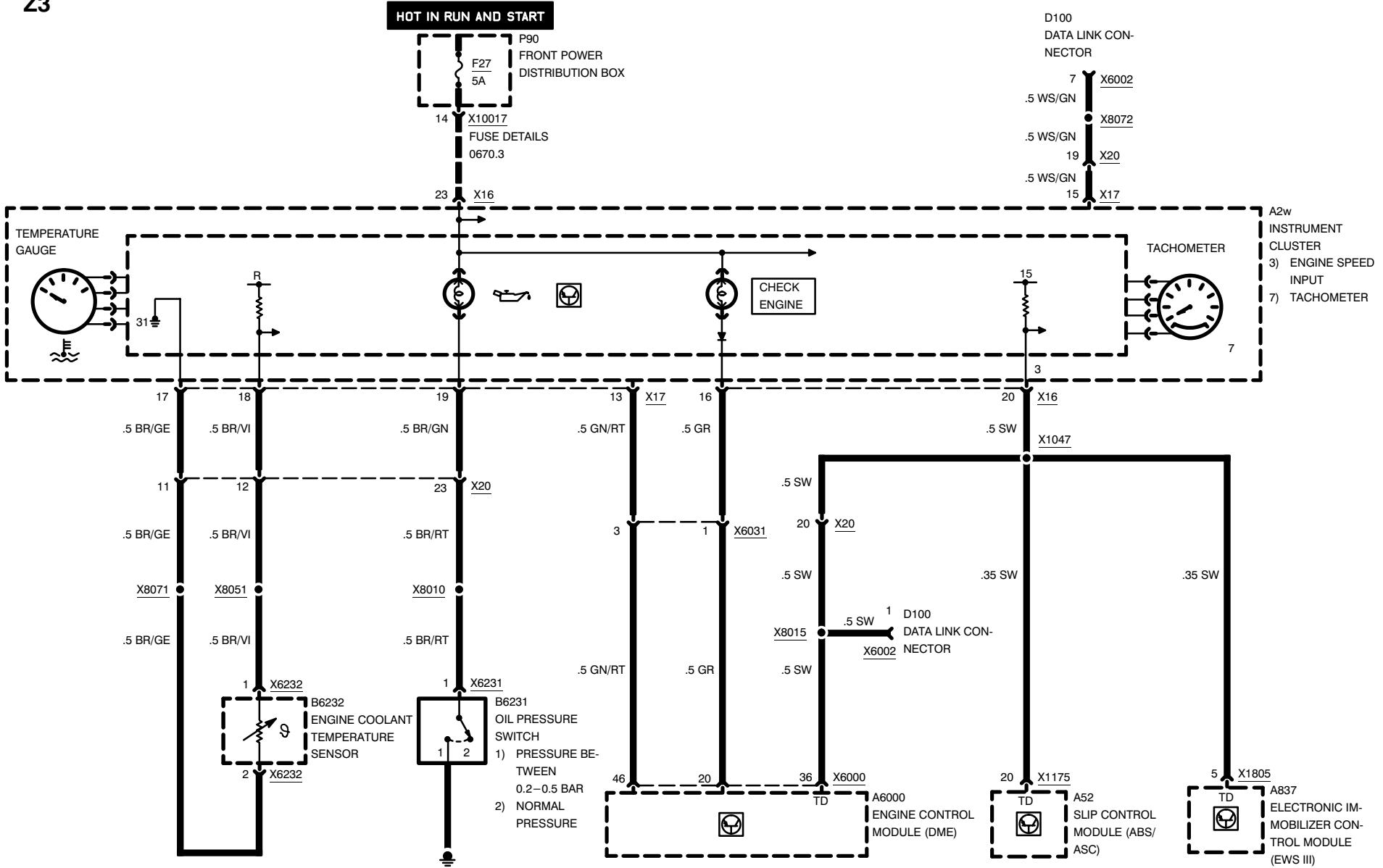
6211.0-02

1999



INSTRUMENT CLUSTER INDICATORS

M VERSIONS



09/98

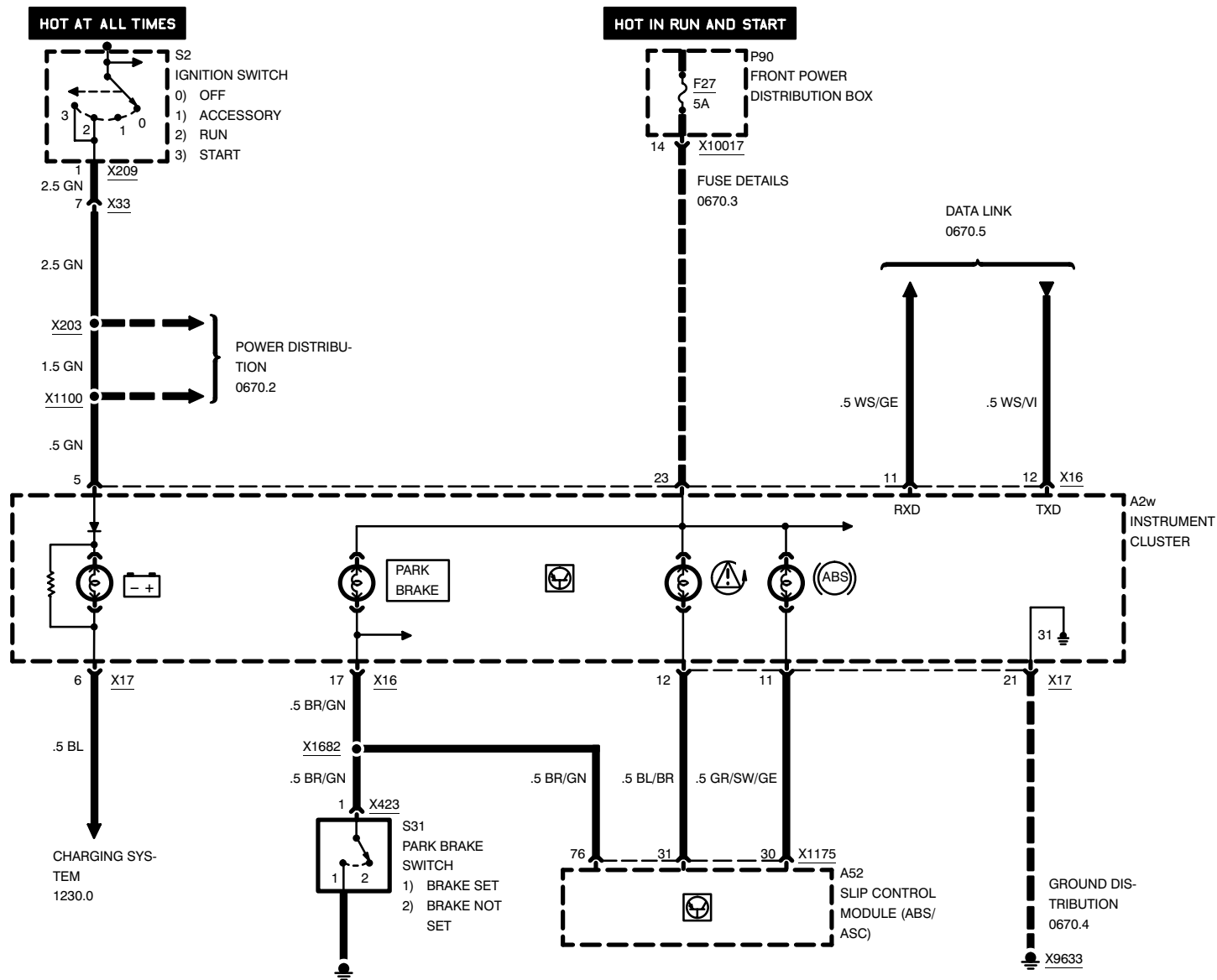
6211.0-03

1999



INSTRUMENT CLUSTER INDICATORS

M VERSIONS



09/98

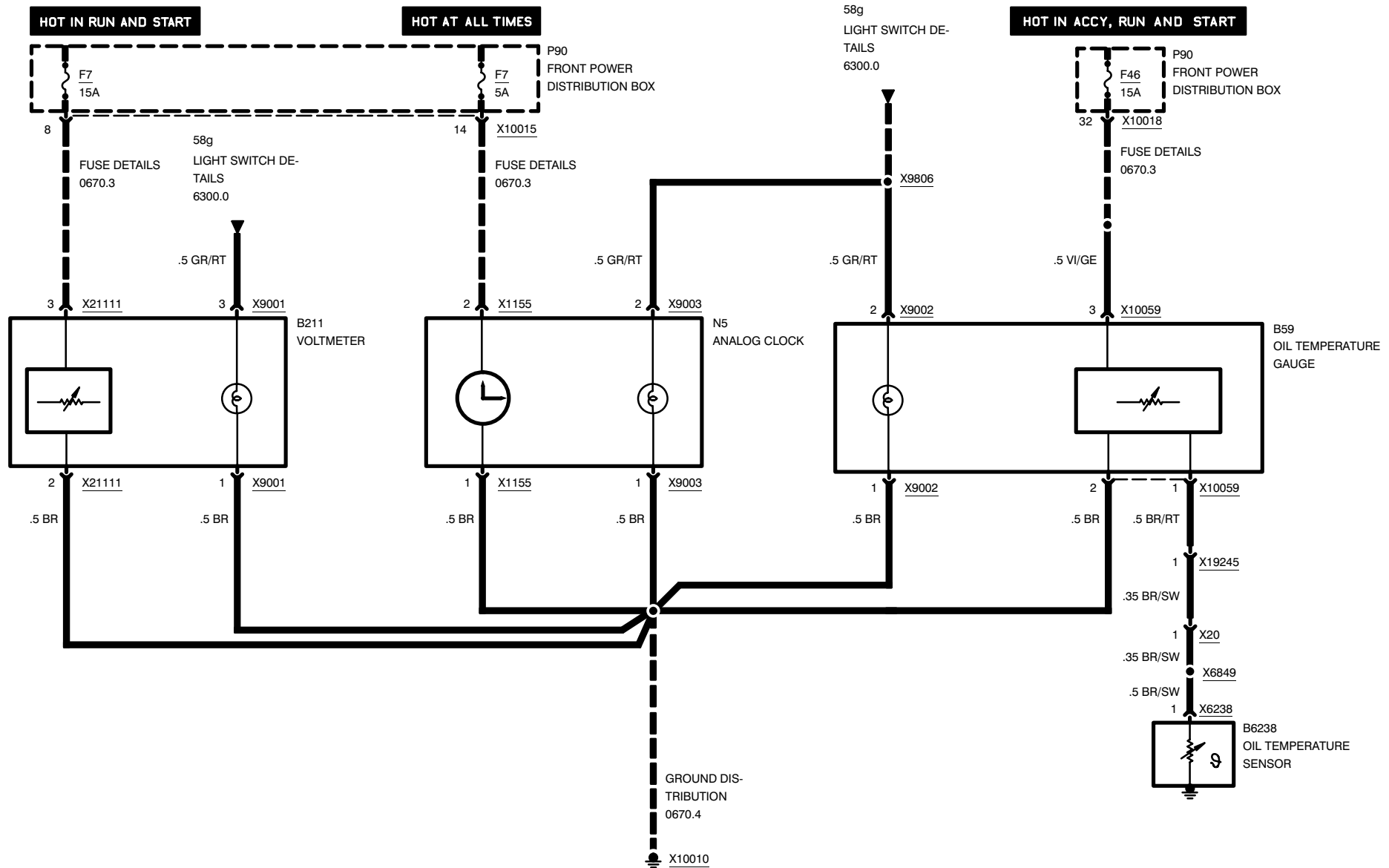
6211.0-04

1999



INSTRUMENT CLUSTER CONSOLE INSTRUMENTS

M VERSIONS



09/98

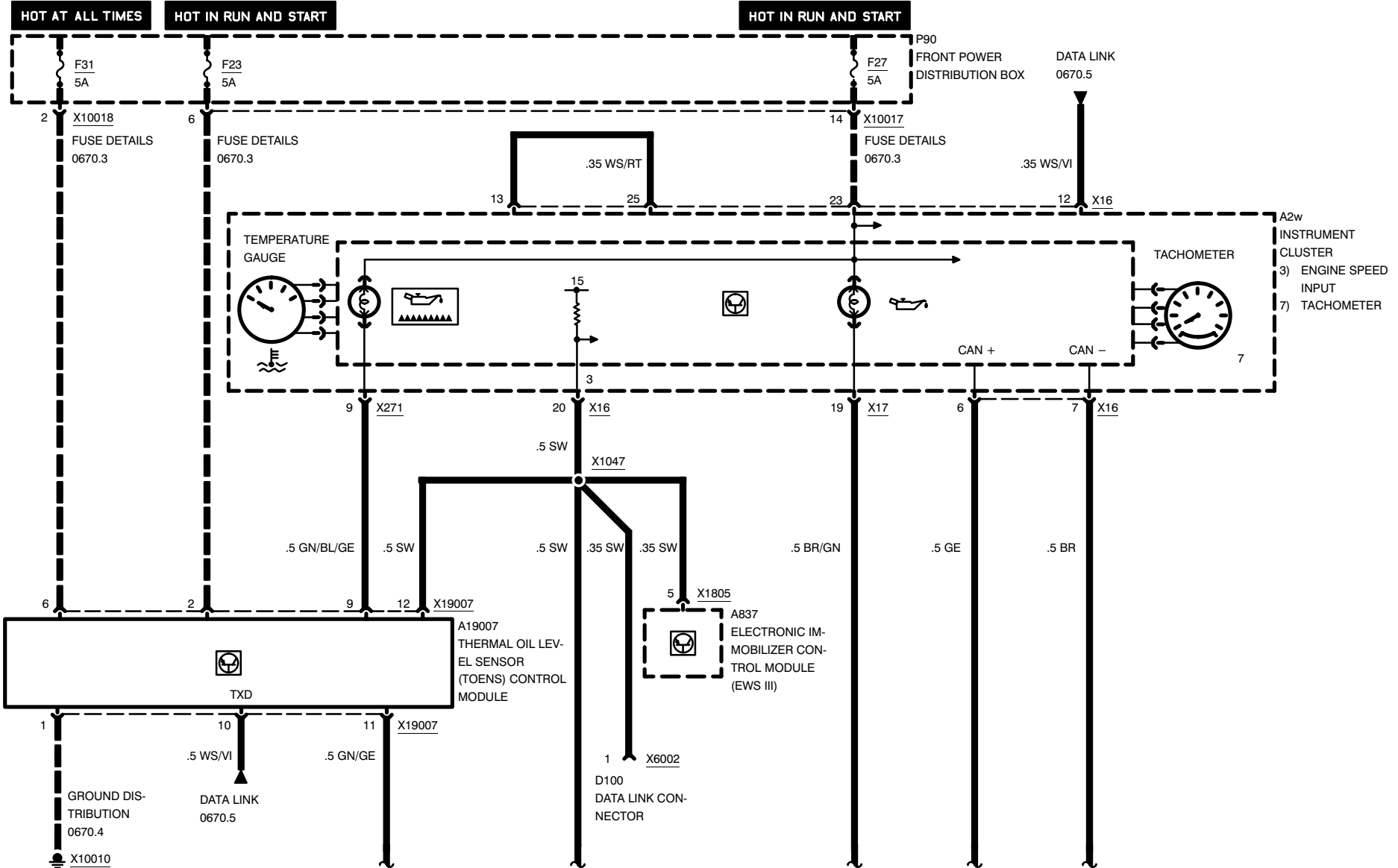
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1999



INSTRUMENT CLUSTER INDICATORS

Z3 VERSIONS

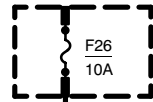


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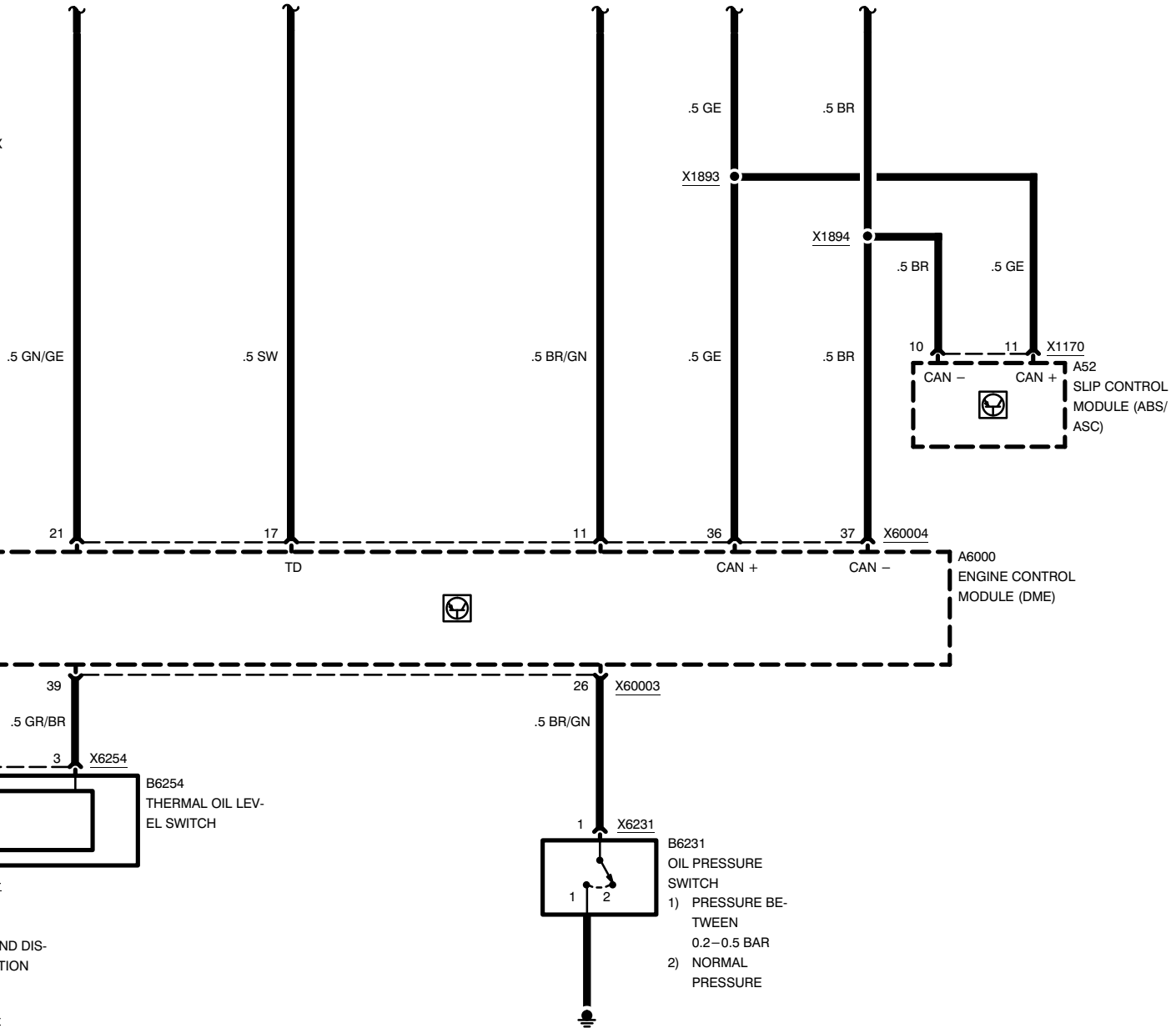
1999

HOT IN RUN AND START



P90
FRONT POWER
DISTRIBUTION BOX

12 X10017
FUSE DETAILS
0670.3





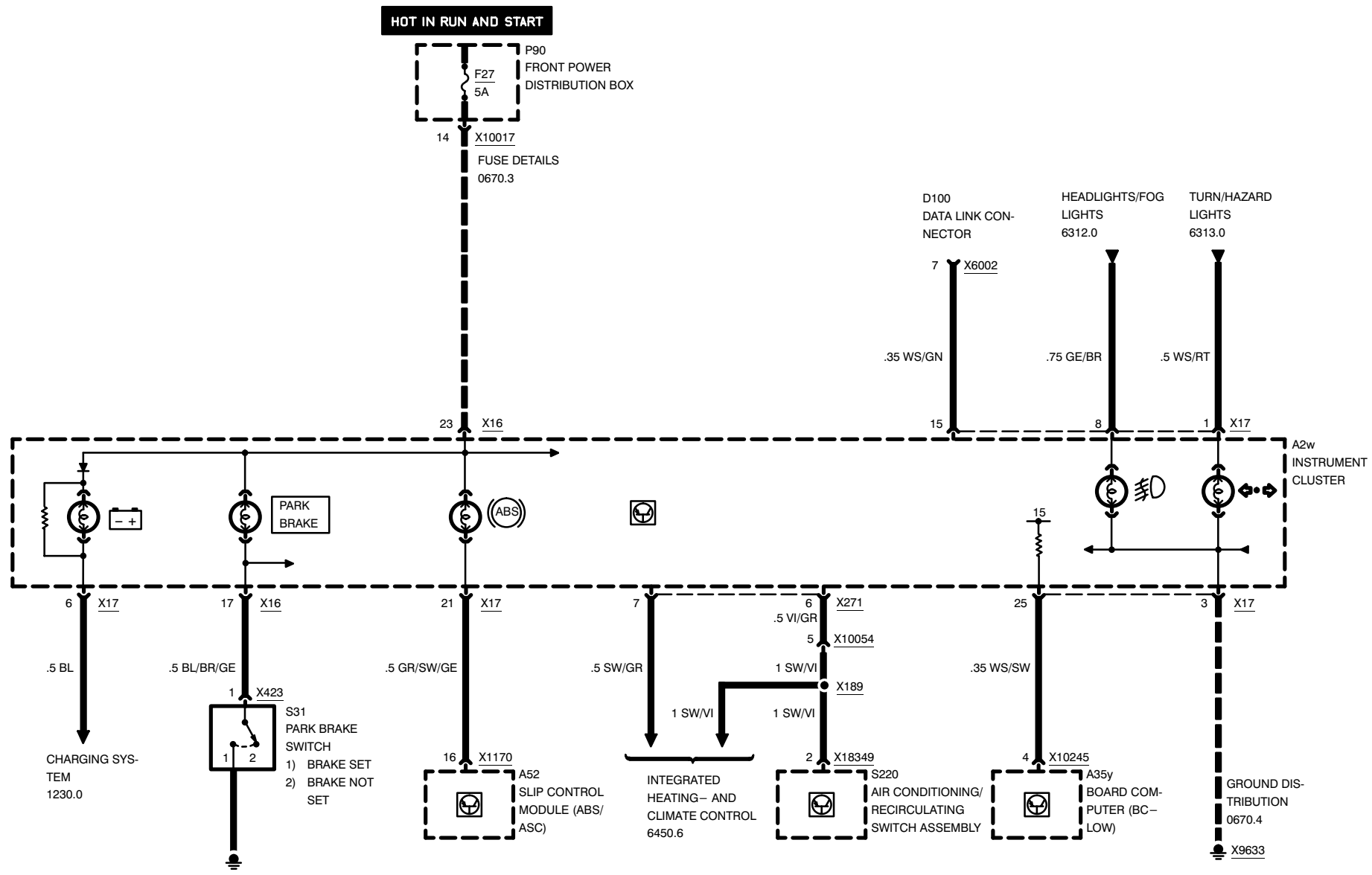
INSTRUMENT CLUSTER INDICATORS

Z3 VERSIONS

09/98

6211.0-08

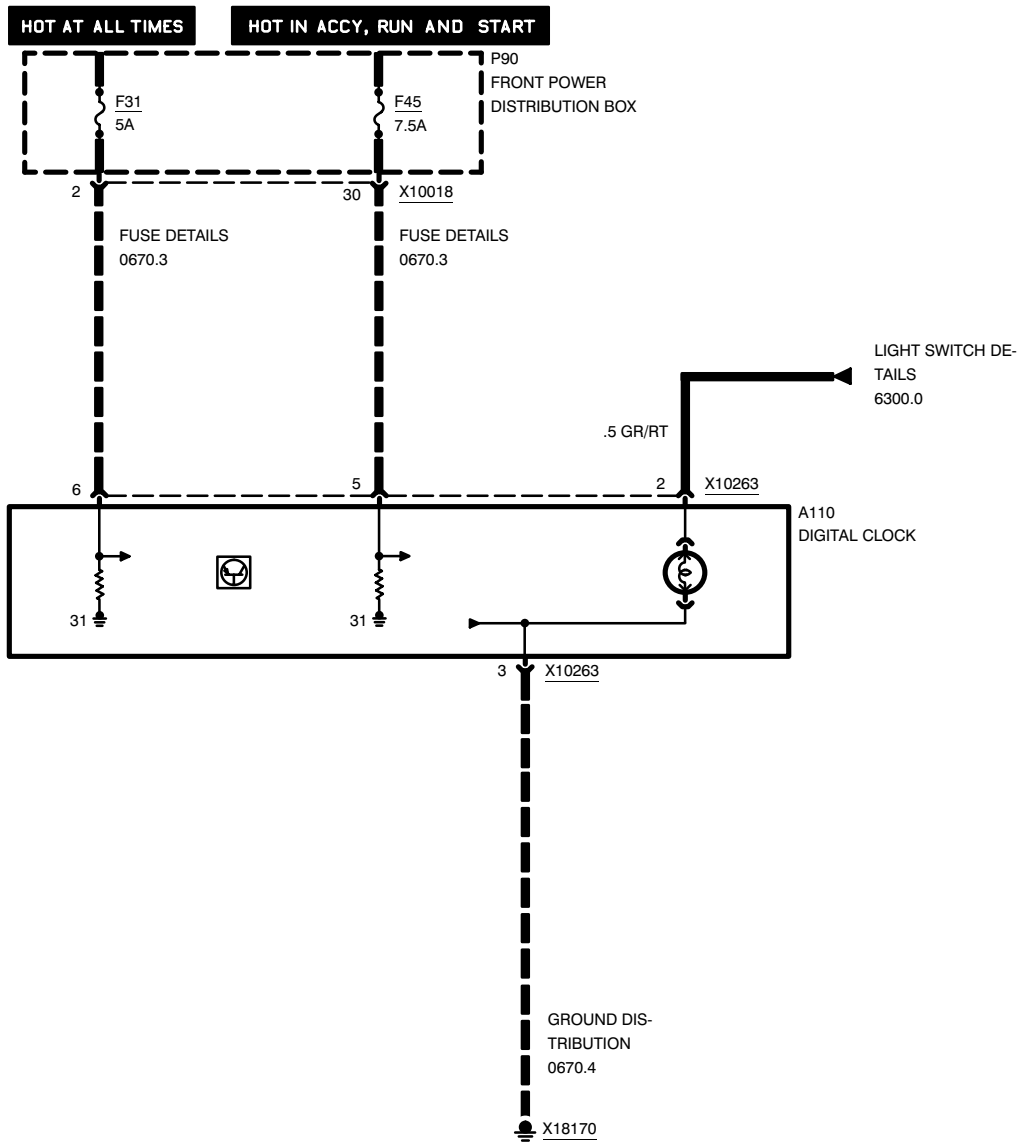
1999





Z3

DIGITAL CLOCK



09/98

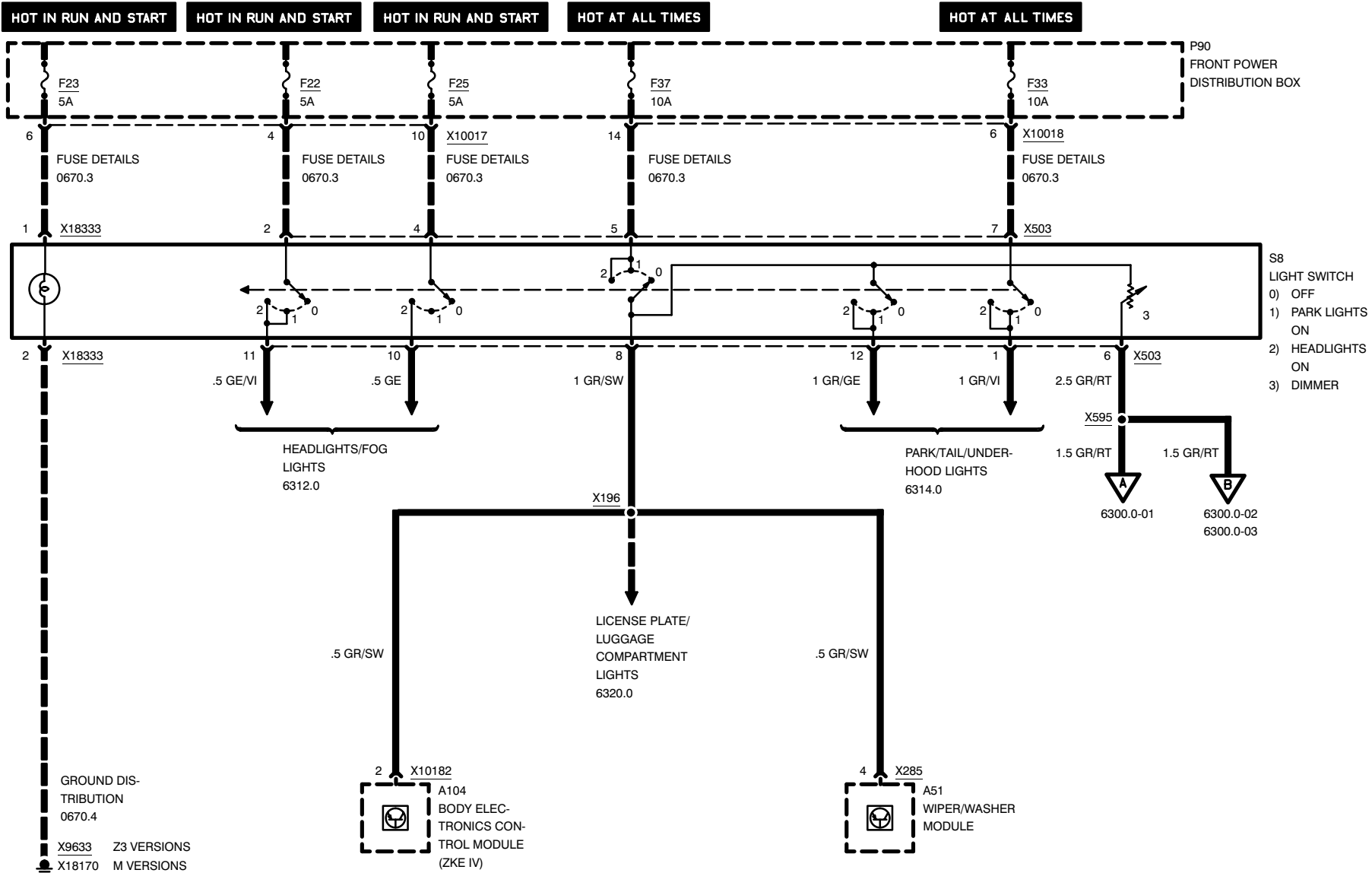
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1999



LIGHT SWITCH DETAILS

Z3



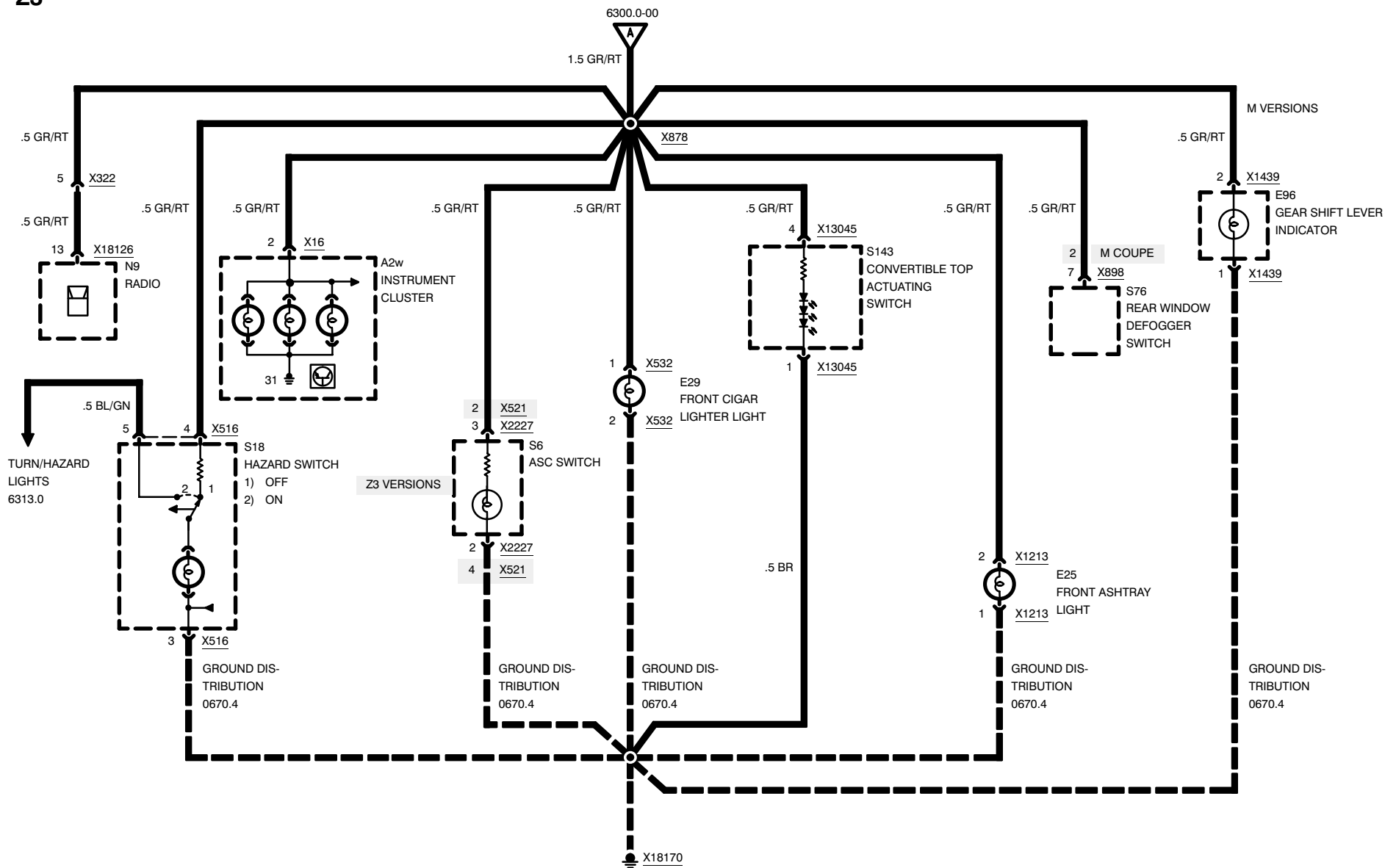
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LIGHT SWITCH DETAILS



09/98

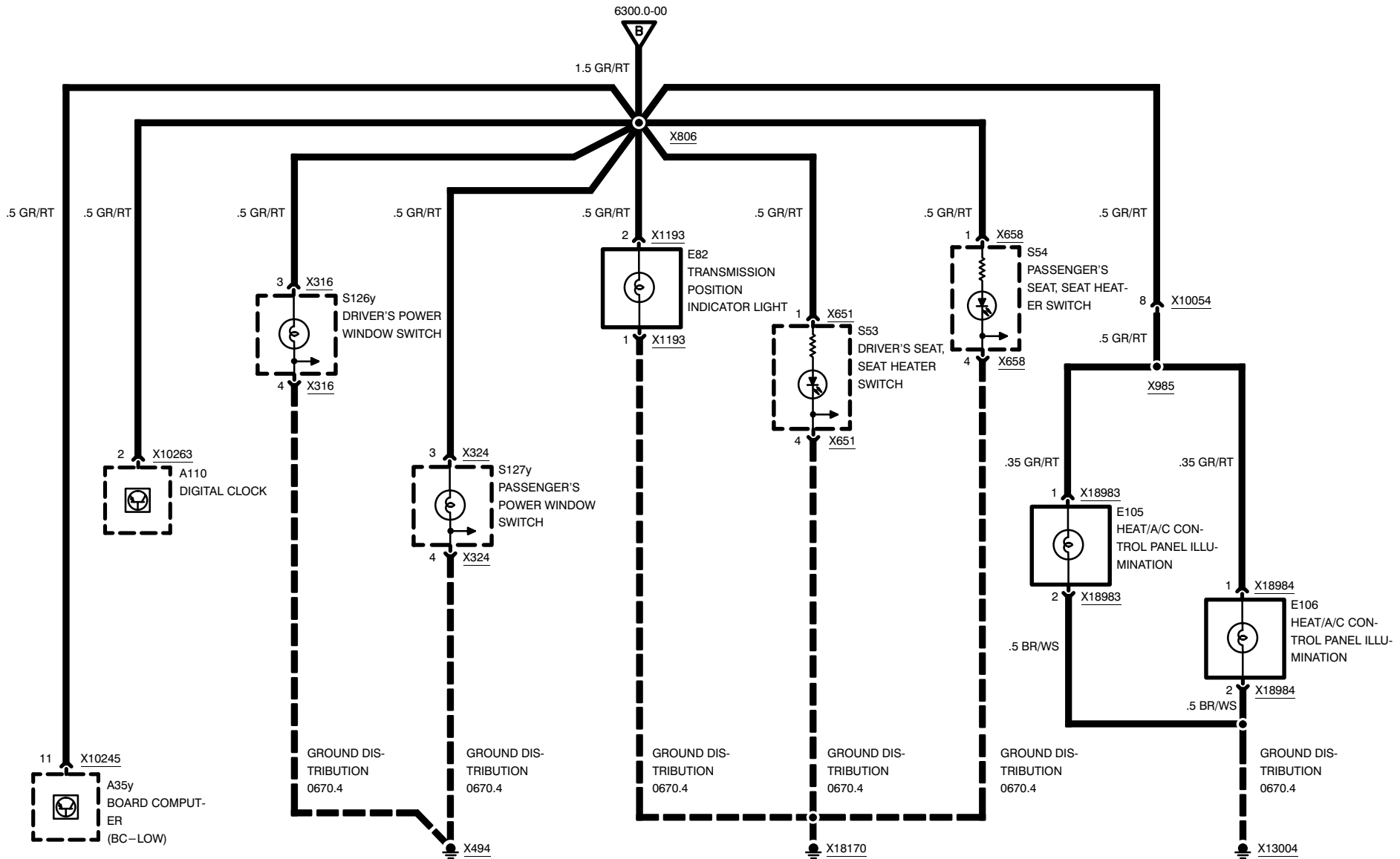
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LIGHT SWITCH DETAILS

Z3 VERSIONS



09/98

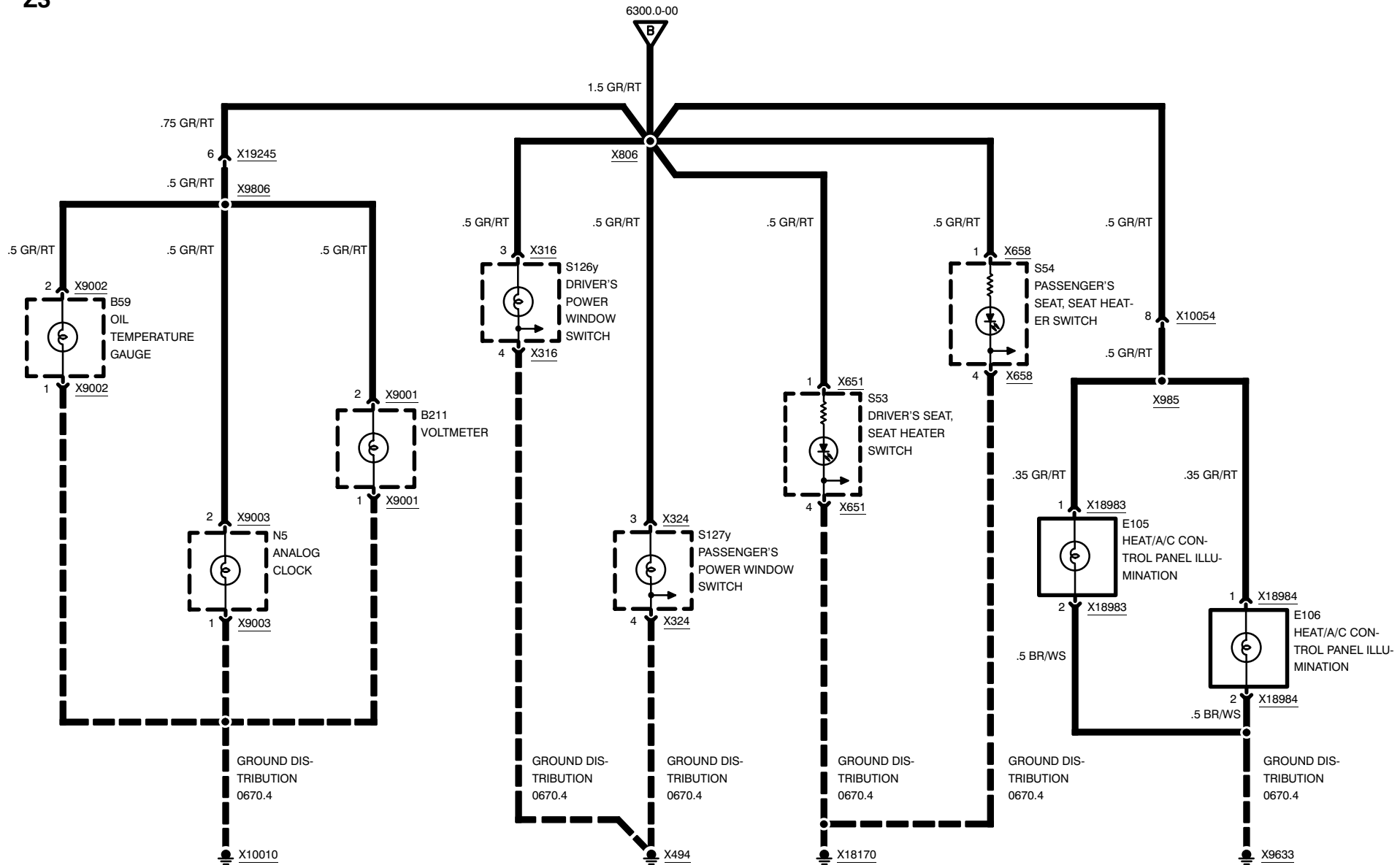
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LIGHT SWITCH DETAILS

M VERSIONS



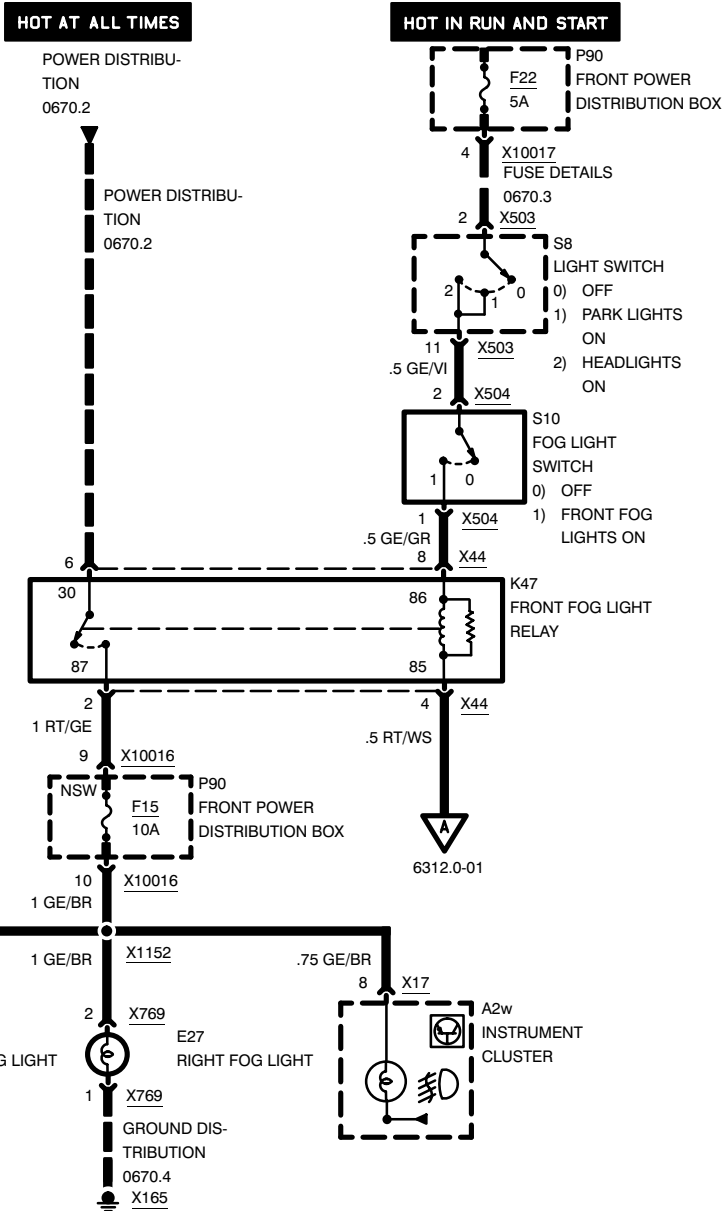
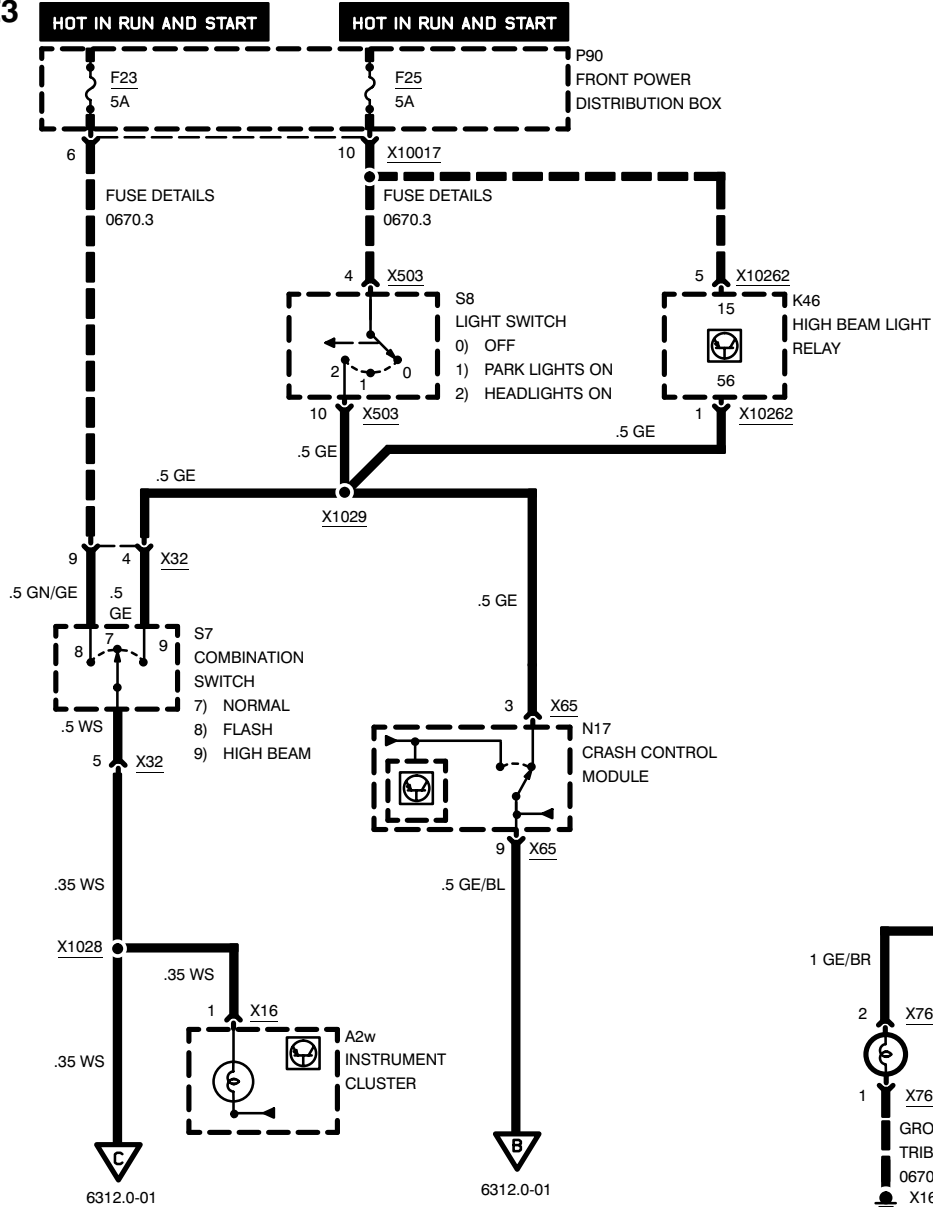
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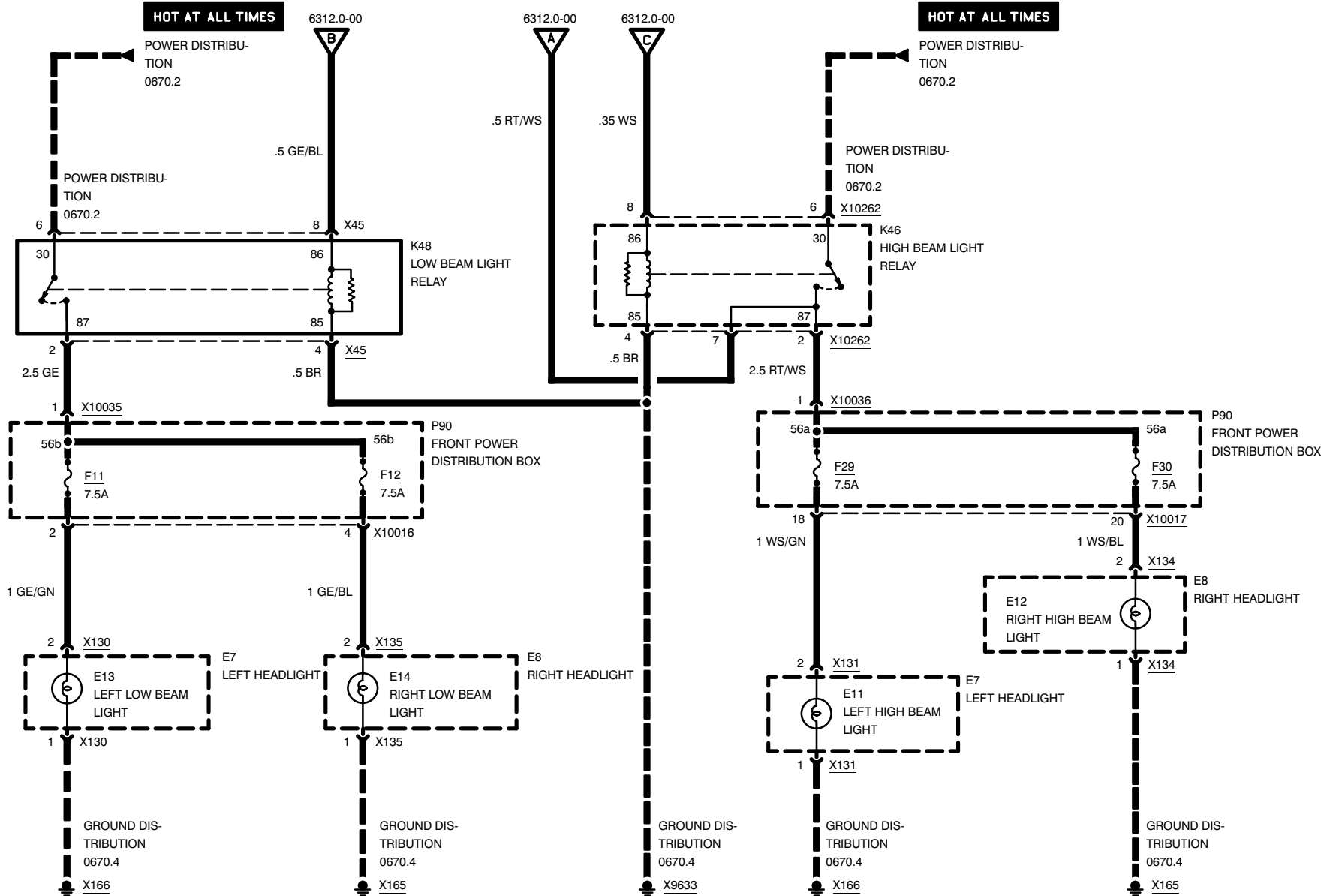
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HEADLIGHTS/FOG LIGHTS

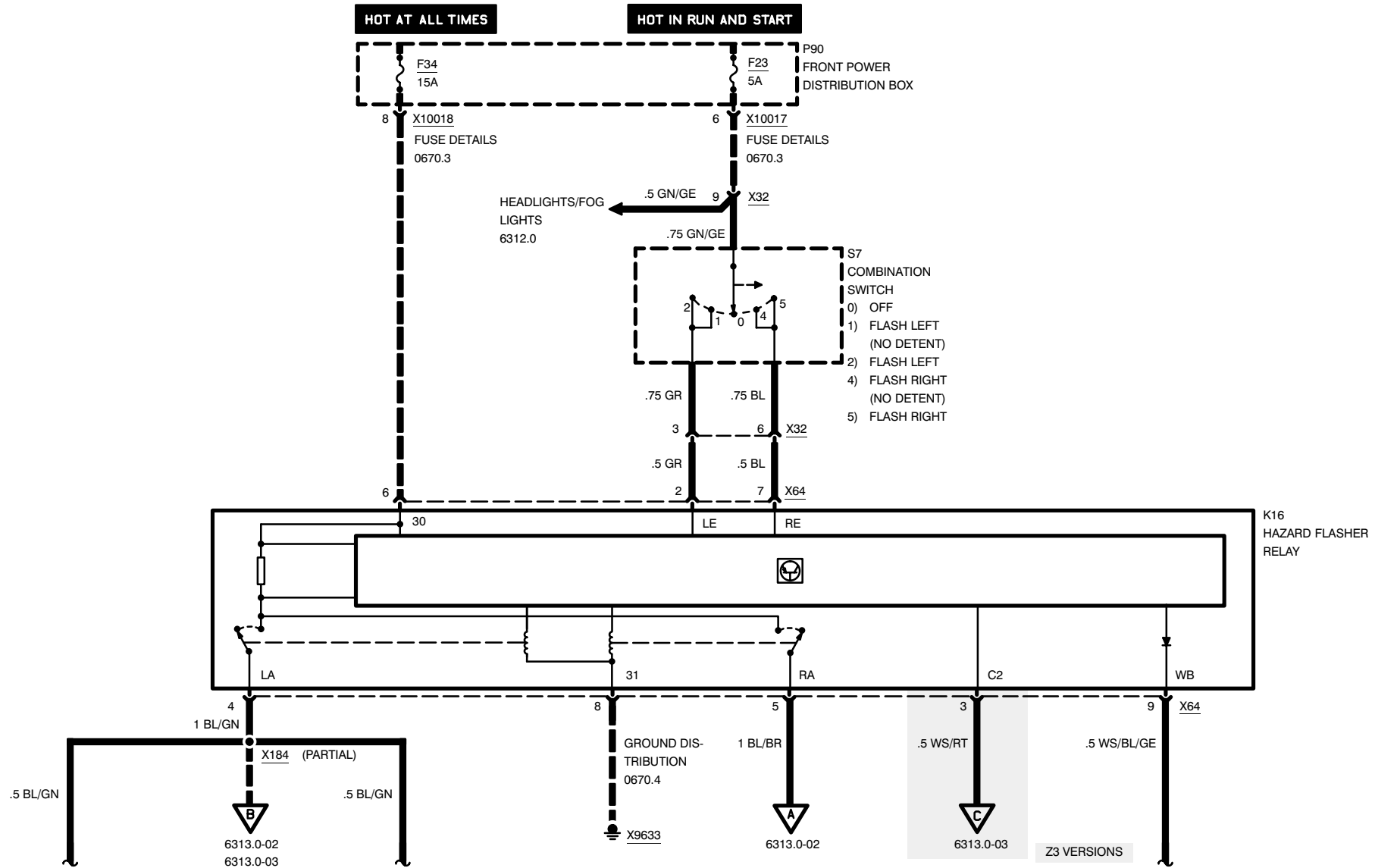
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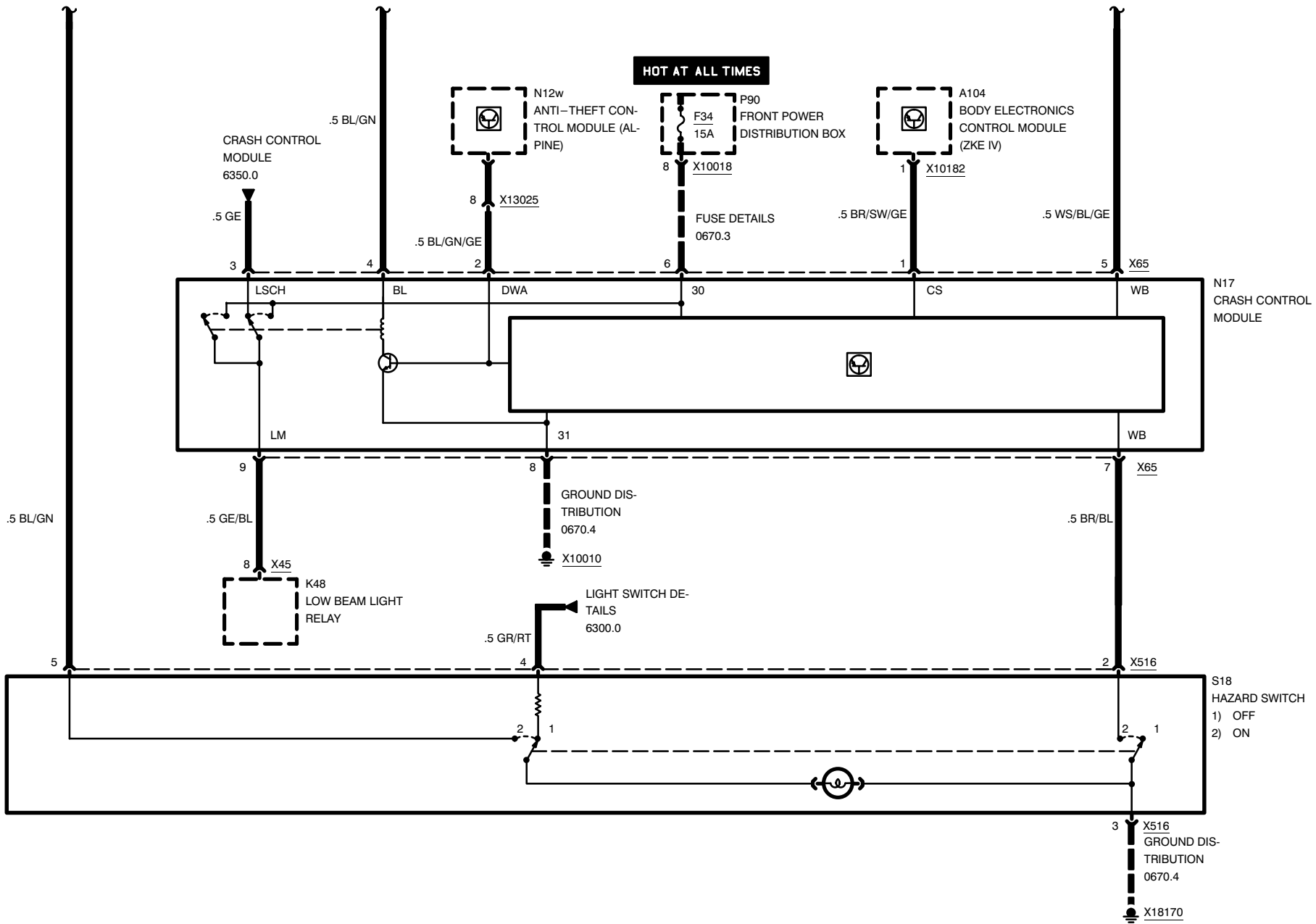


HEADLIGHTS/FOG LIGHTS



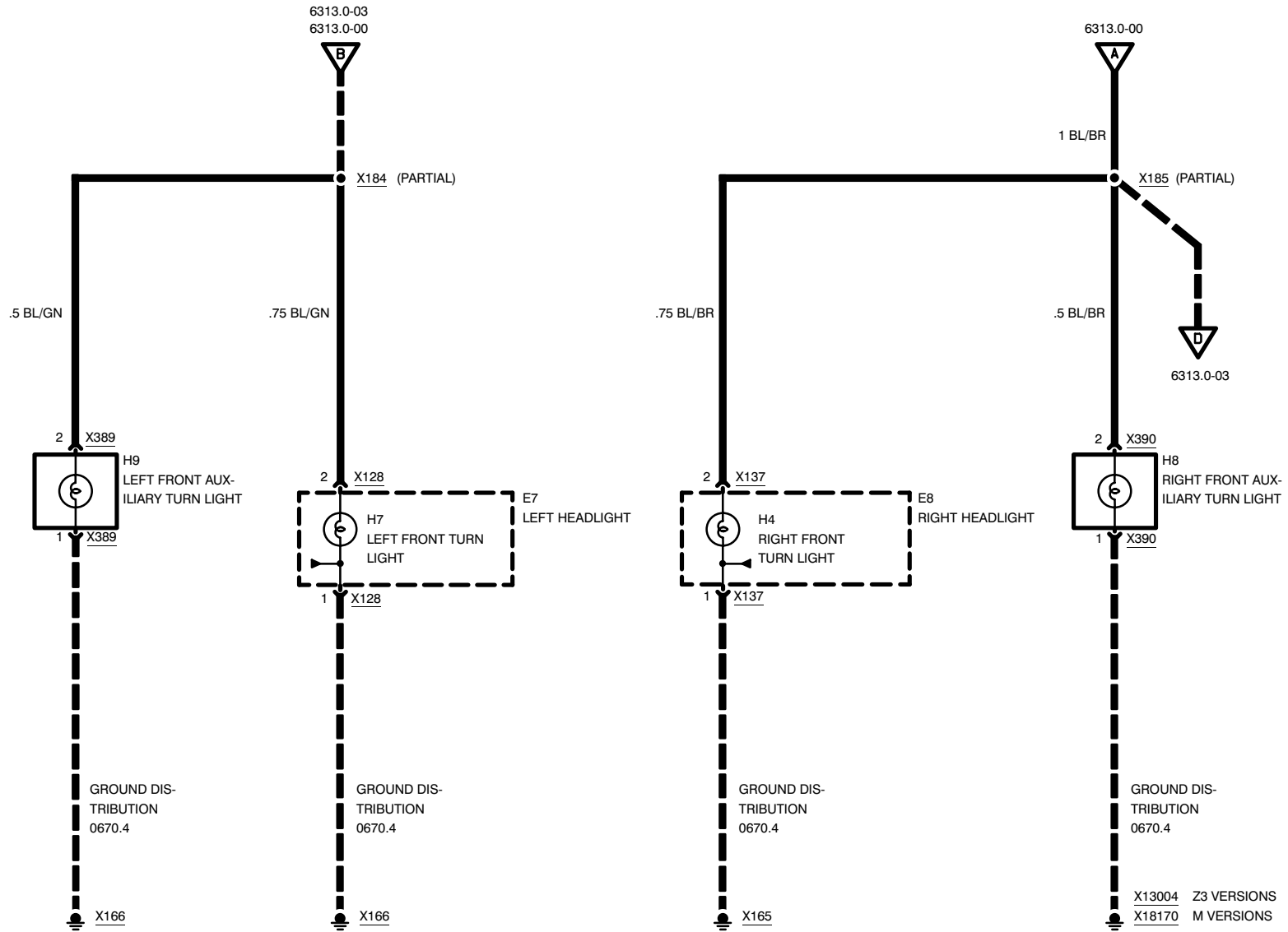
TURN/HAZARD LIGHTS







TURN/HAZARD LIGHTS



09/98
 6313.0-02
 1999

X13004 Z3 VERSIONS
 X18170 M VERSIONS

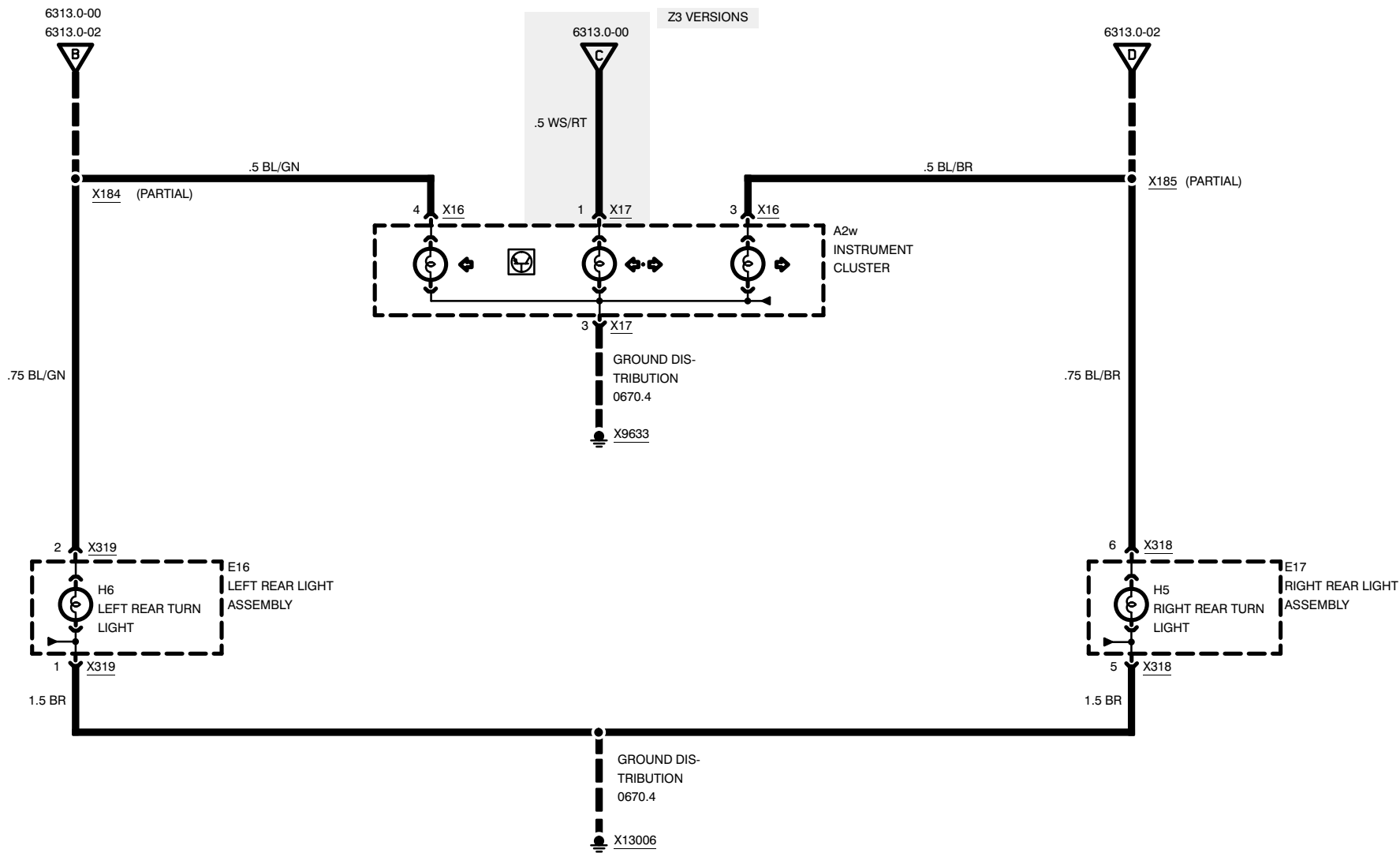


TURN/HAZARD LIGHTS

09/98

6313.0-03

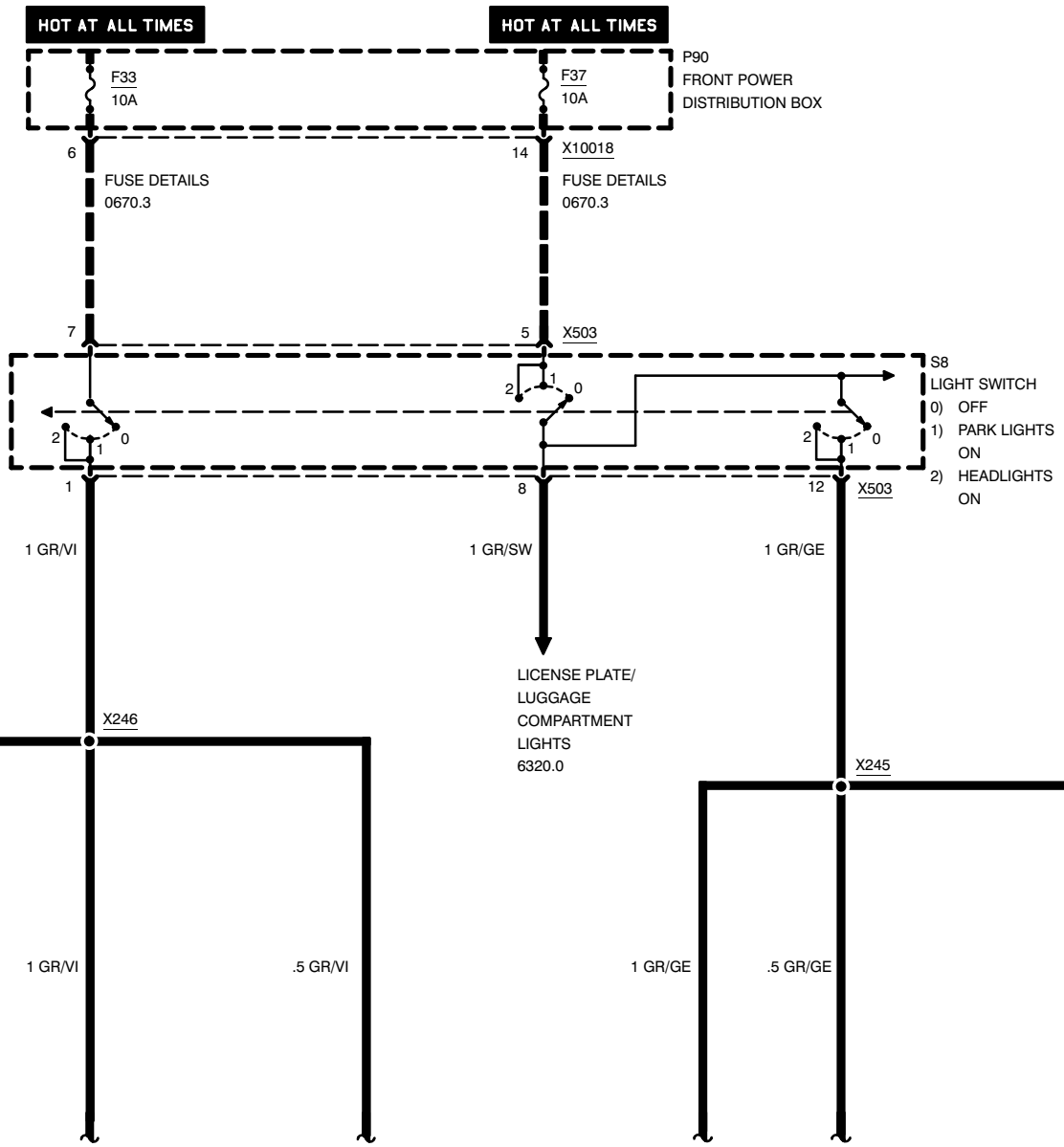
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Z3

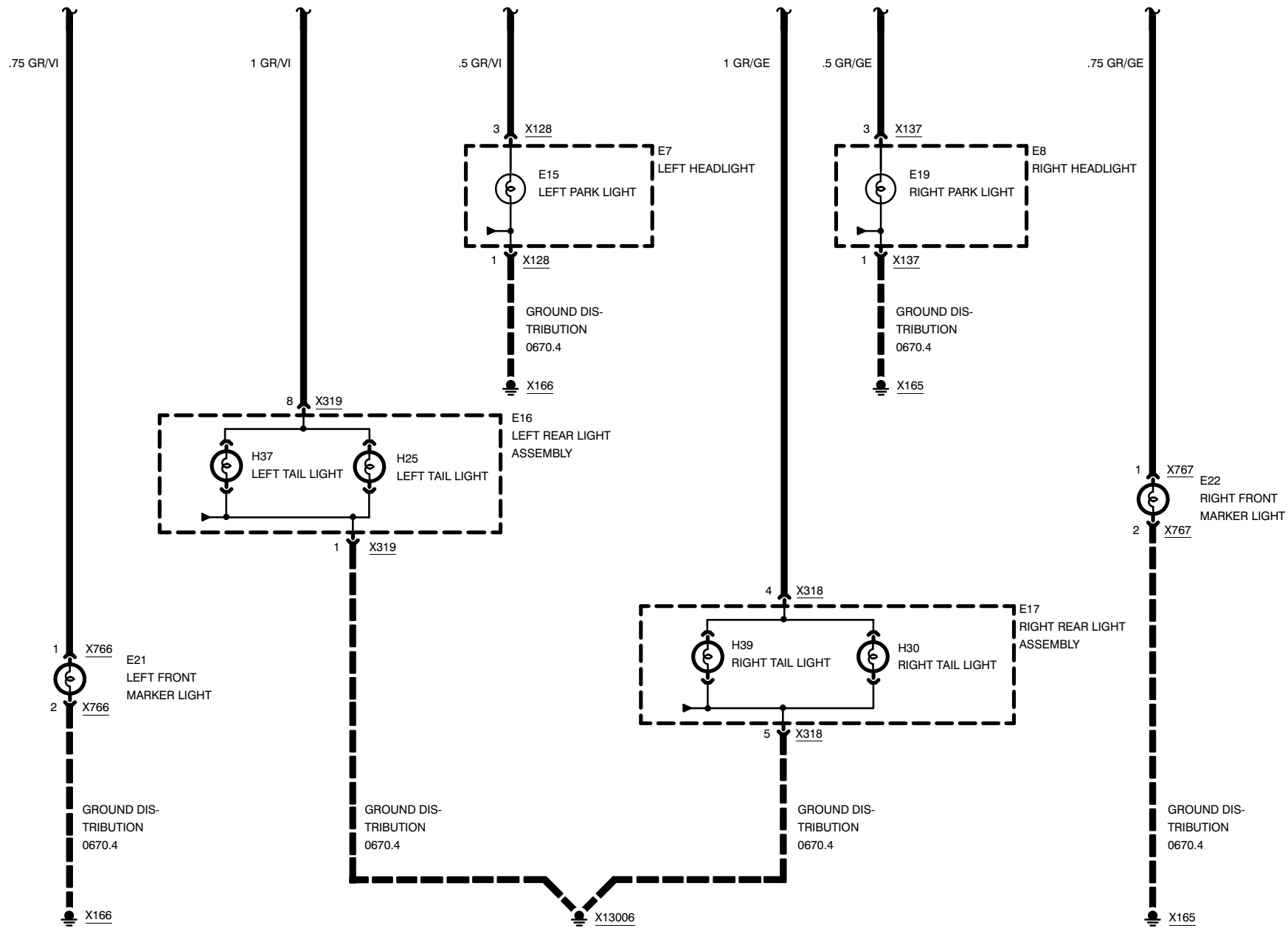
PARK/TAIL/UNDERHOOD LIGHTS



09/98

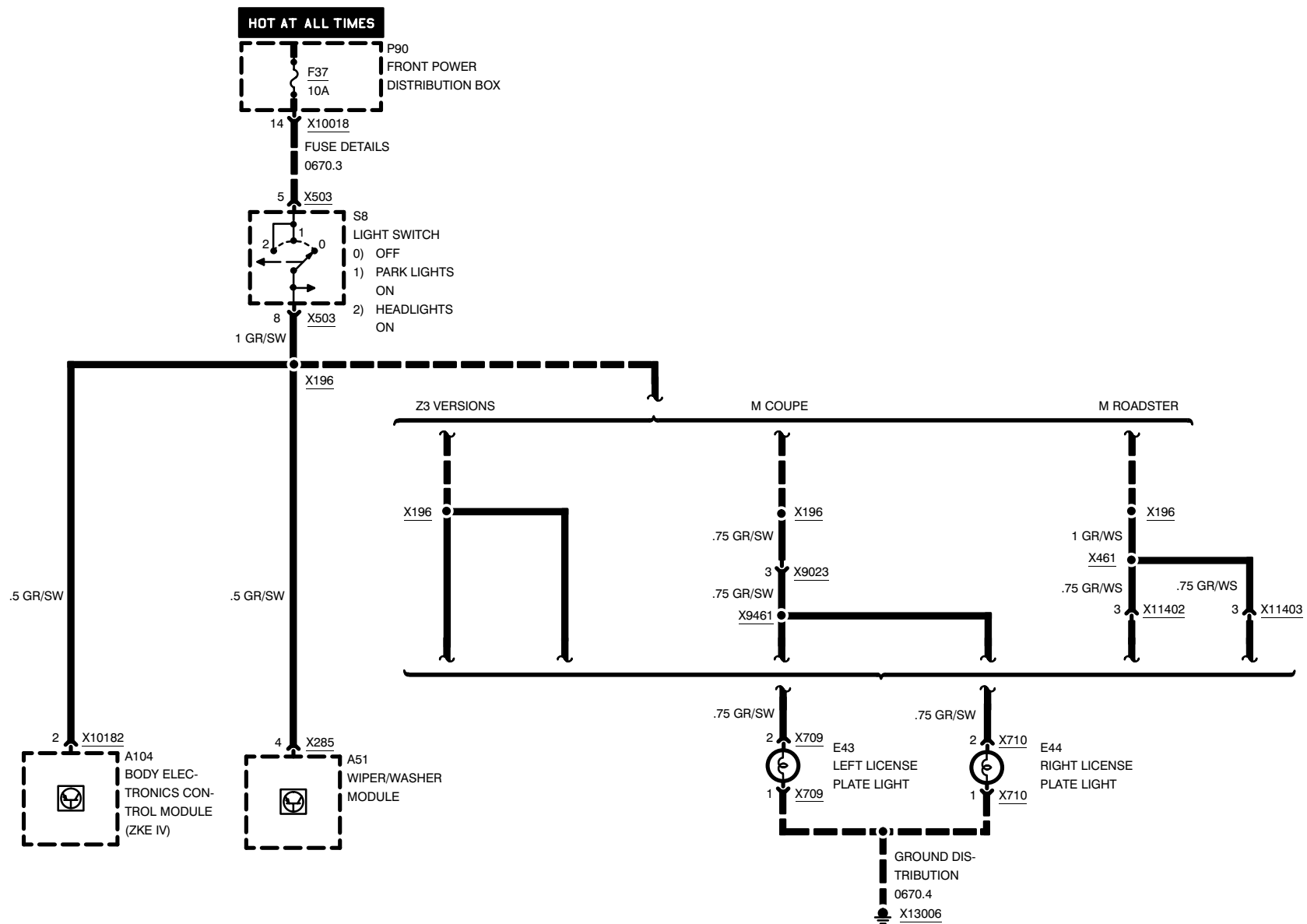
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LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS



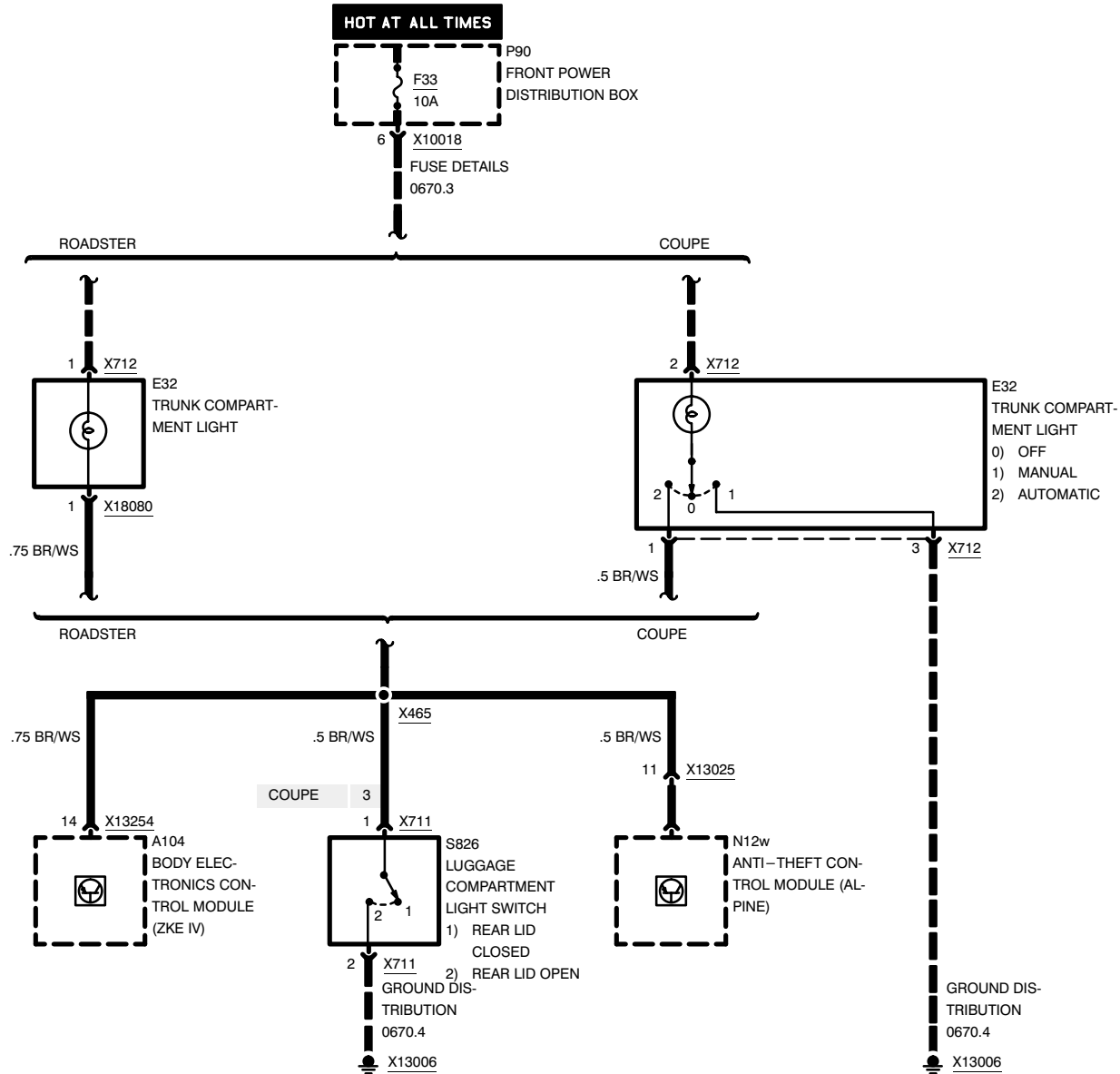
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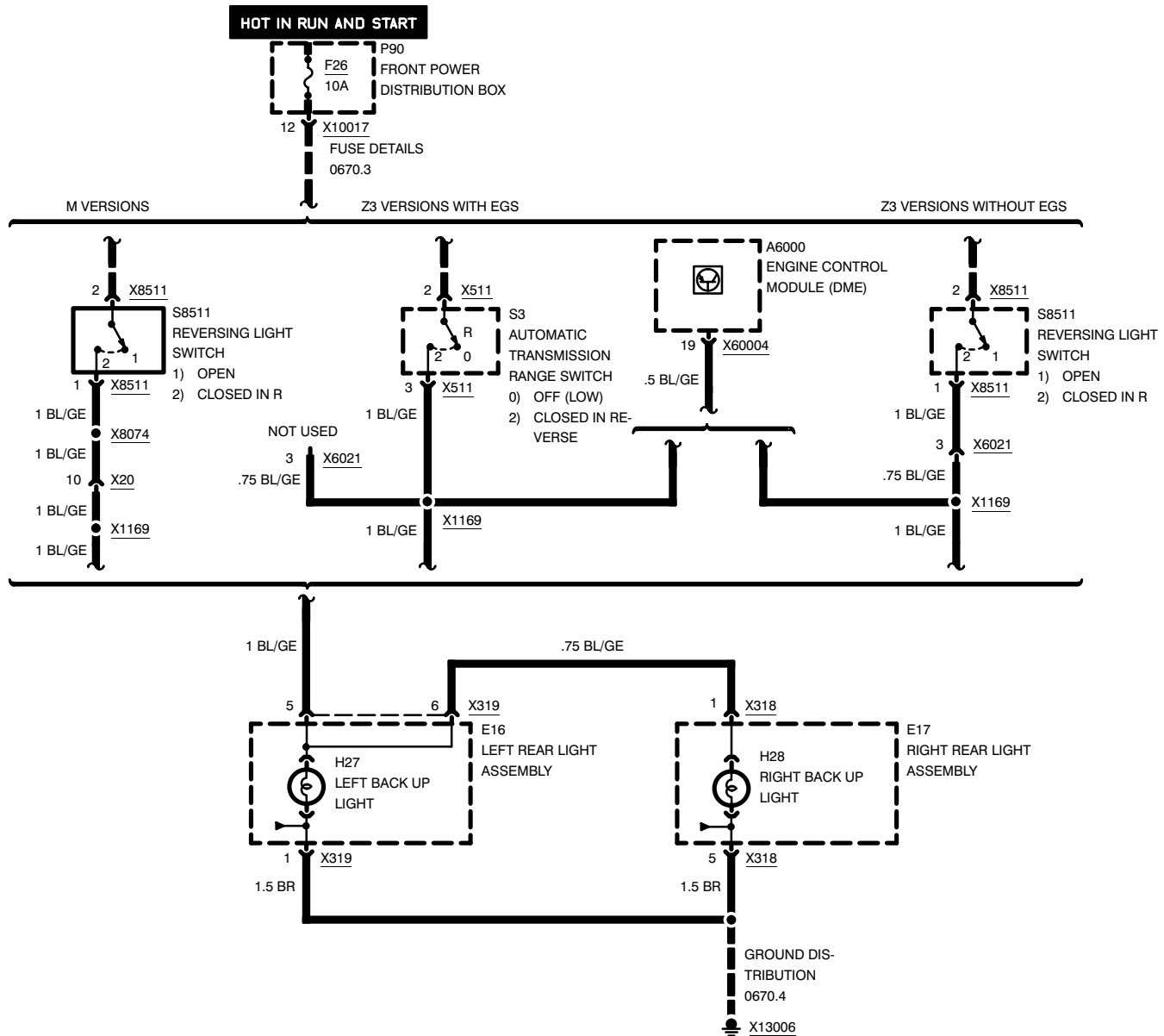
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LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS



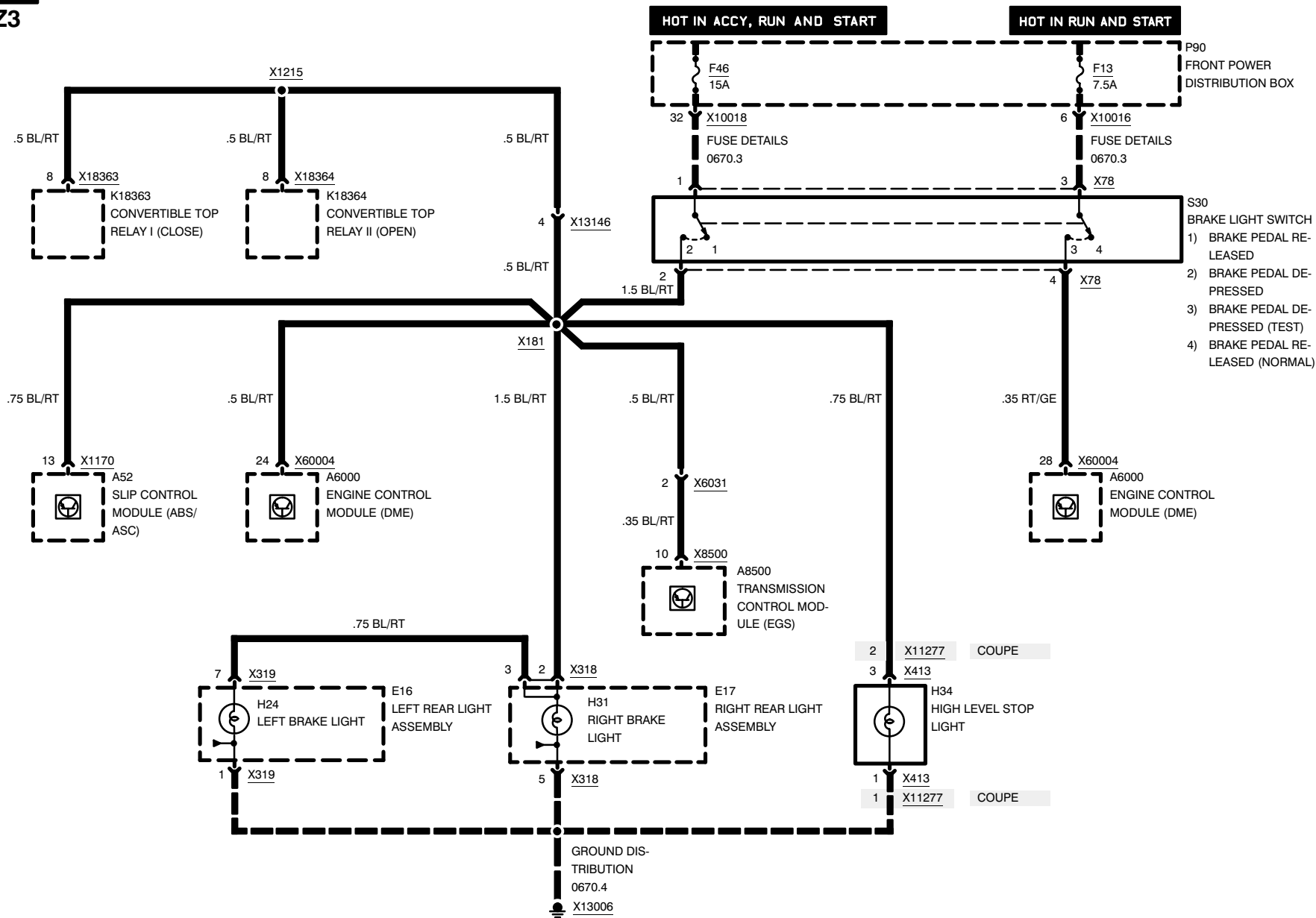
BACK UP LIGHTS





BRAKE LIGHTS

Z3 VERSIONS



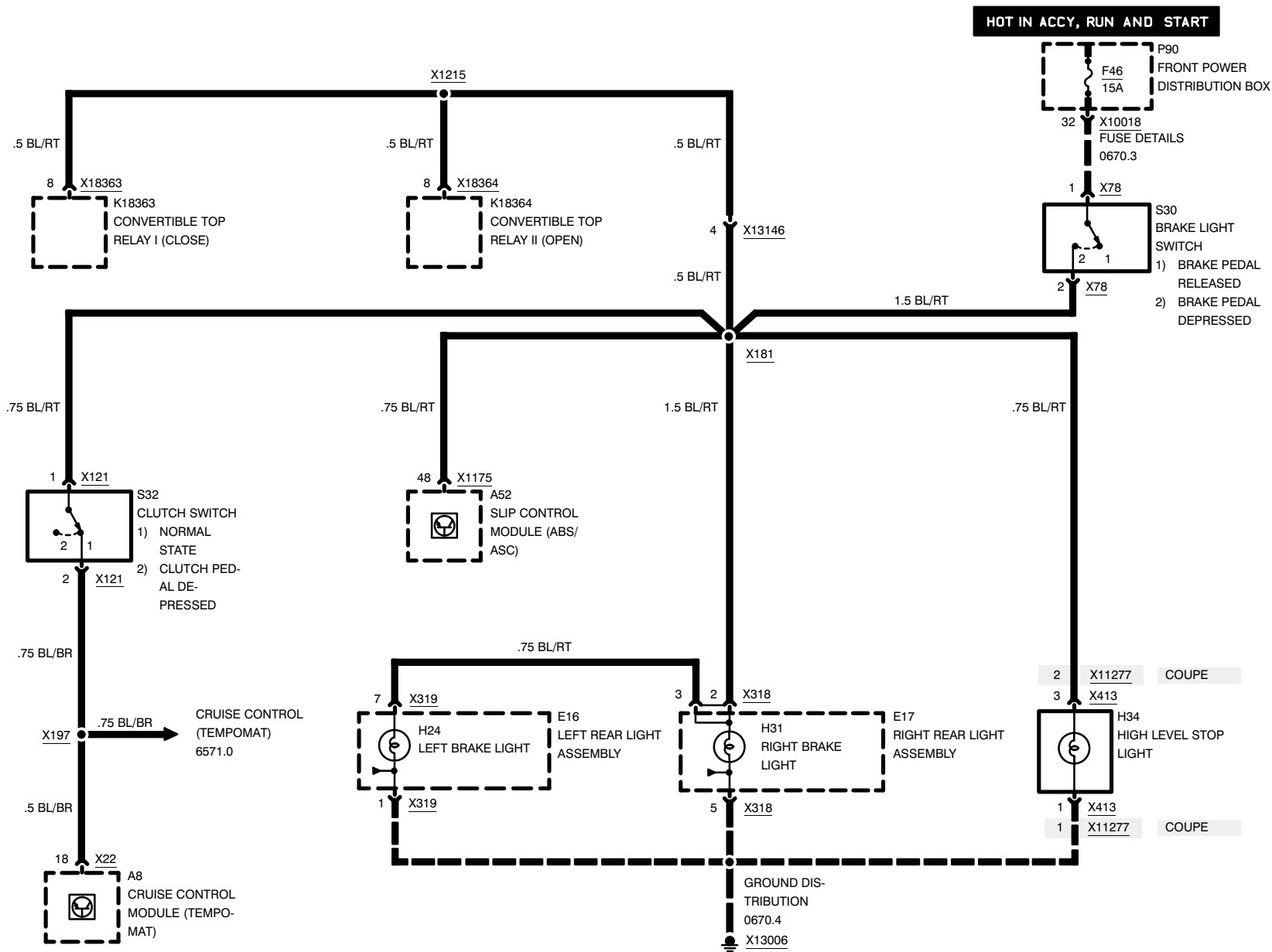
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BRAKE LIGHTS

M VERSIONS

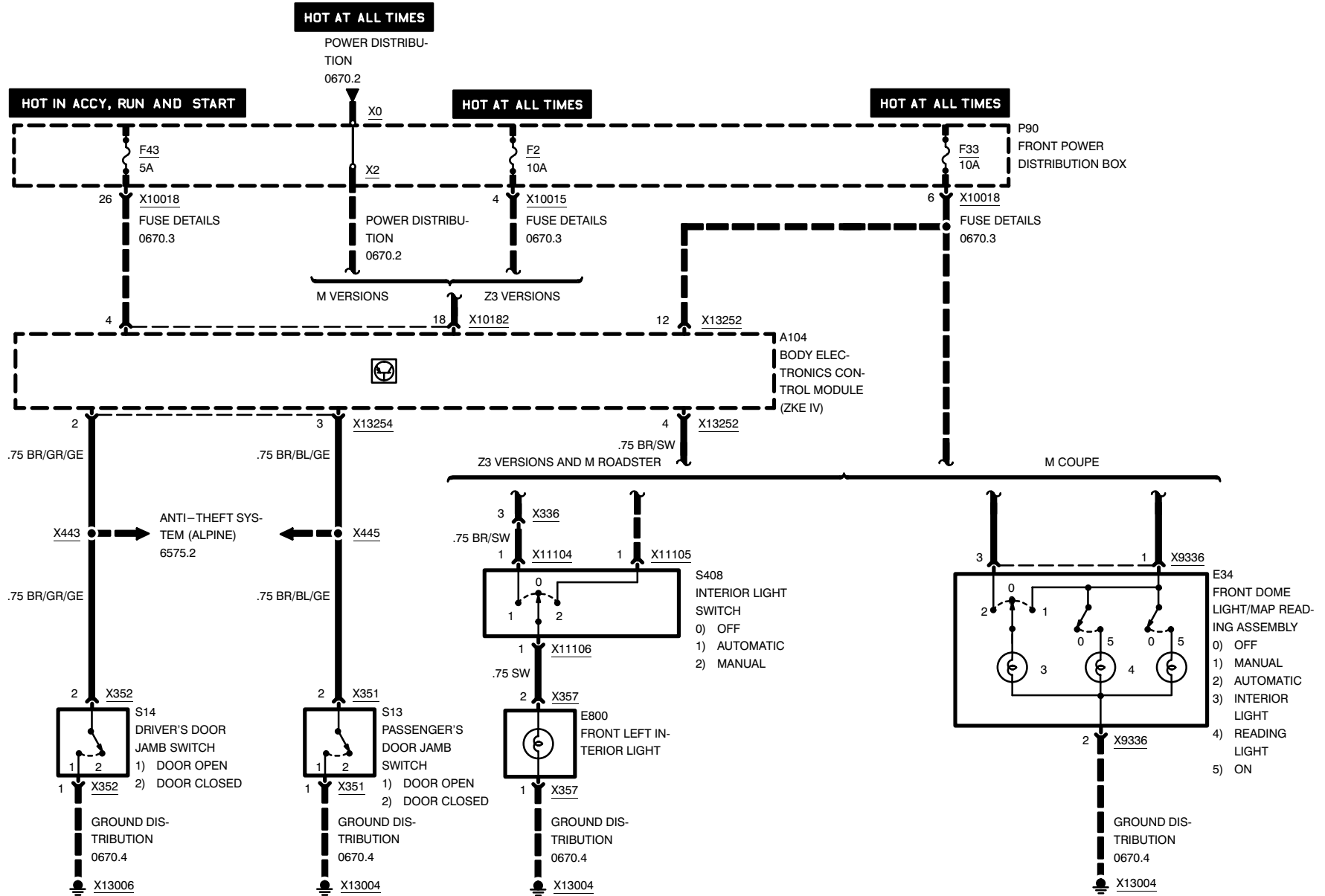
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Z3

INTERIOR LIGHTS

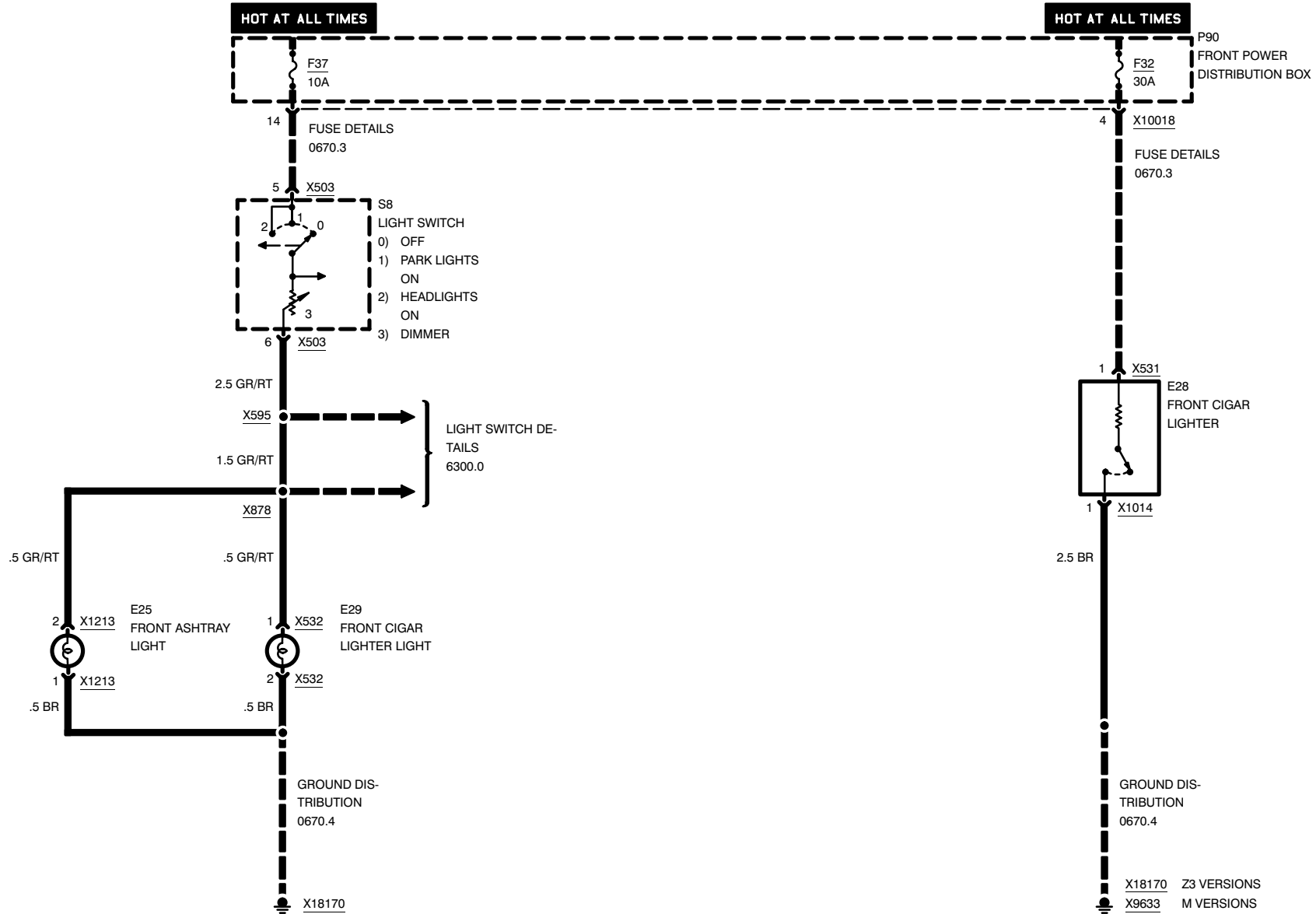


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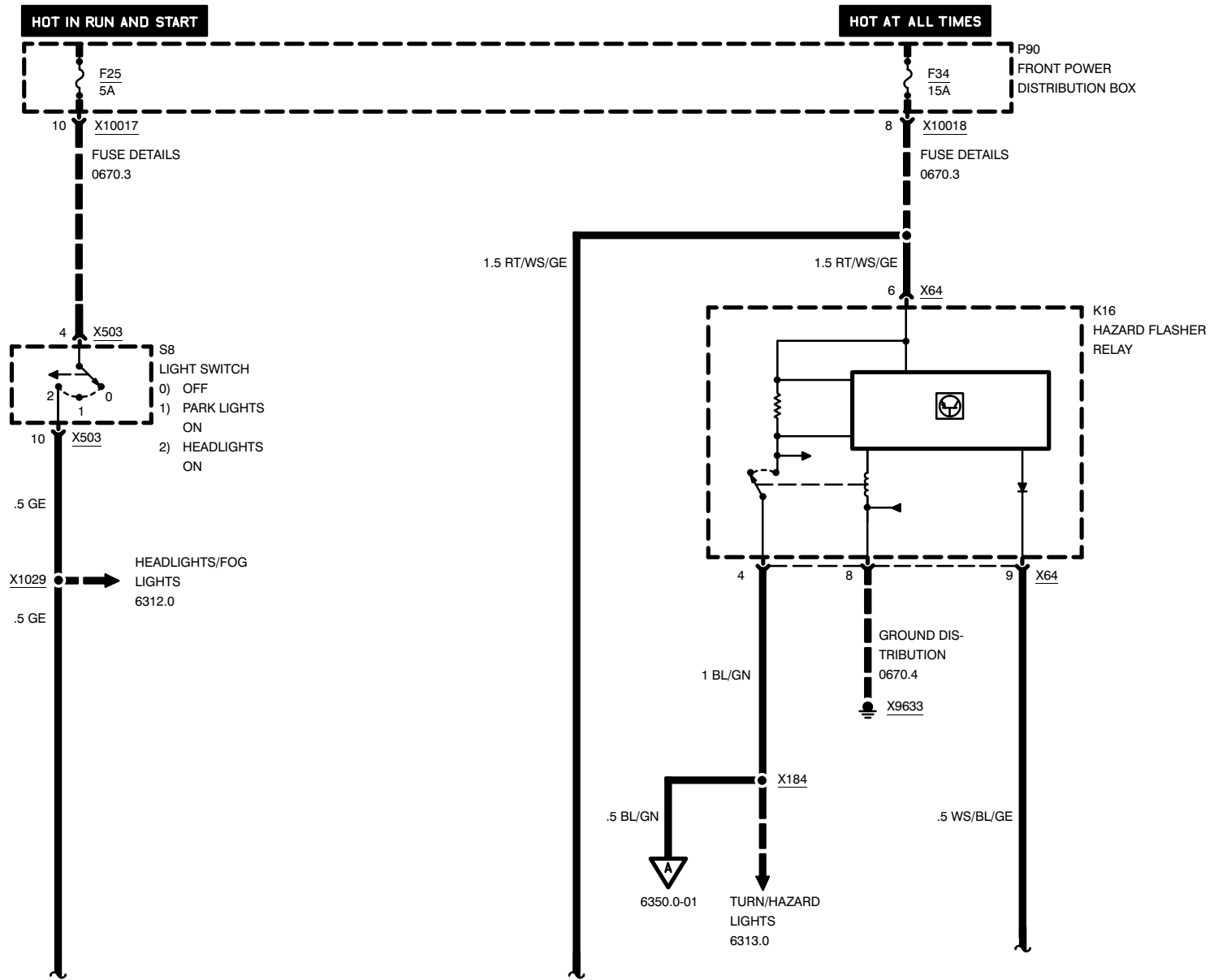
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INTERIOR ACCESSORIES





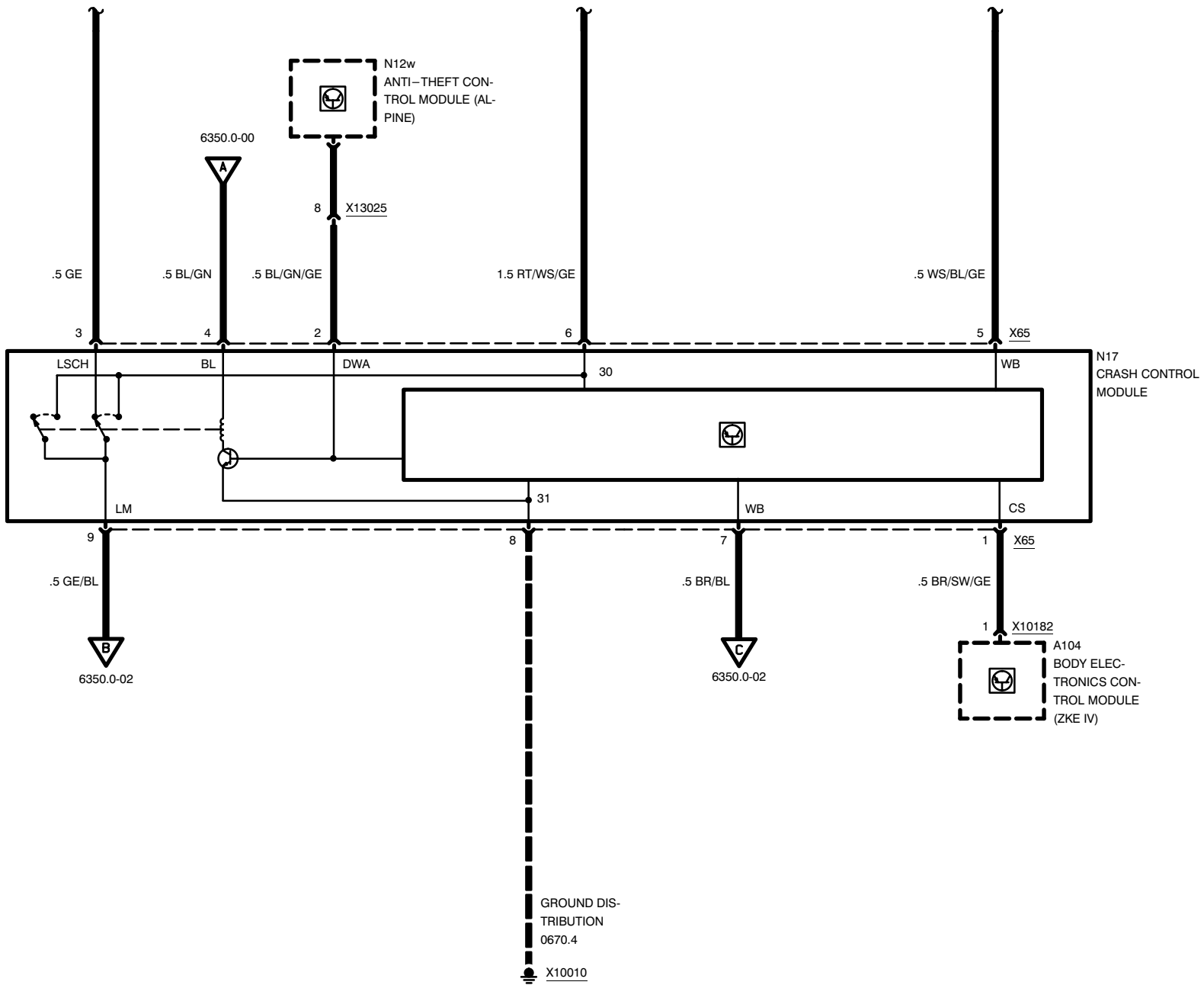
CRASH CONTROL MODULE



09/98

6350.0-00

1999



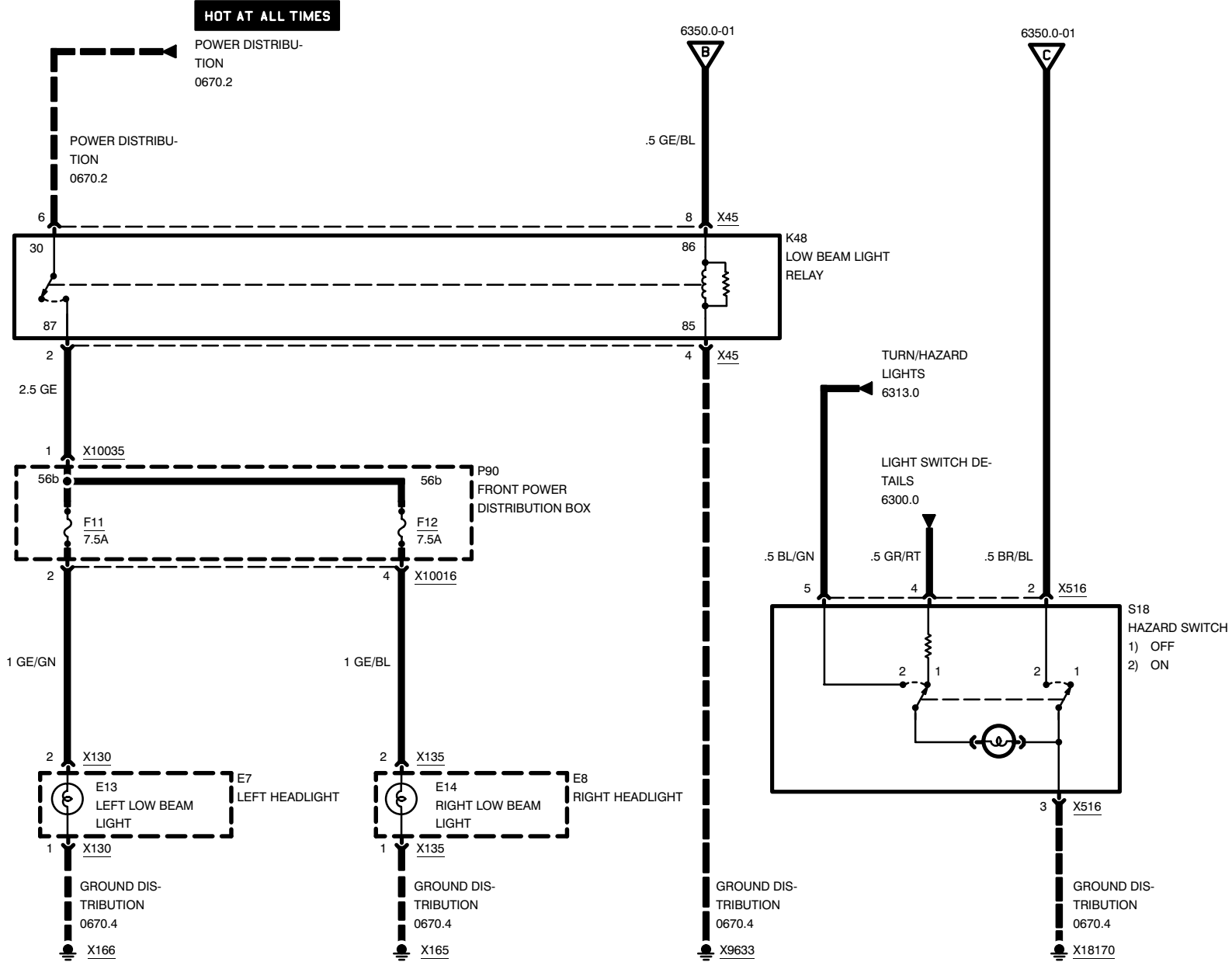
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CRASH CONTROL MODULE



09/98

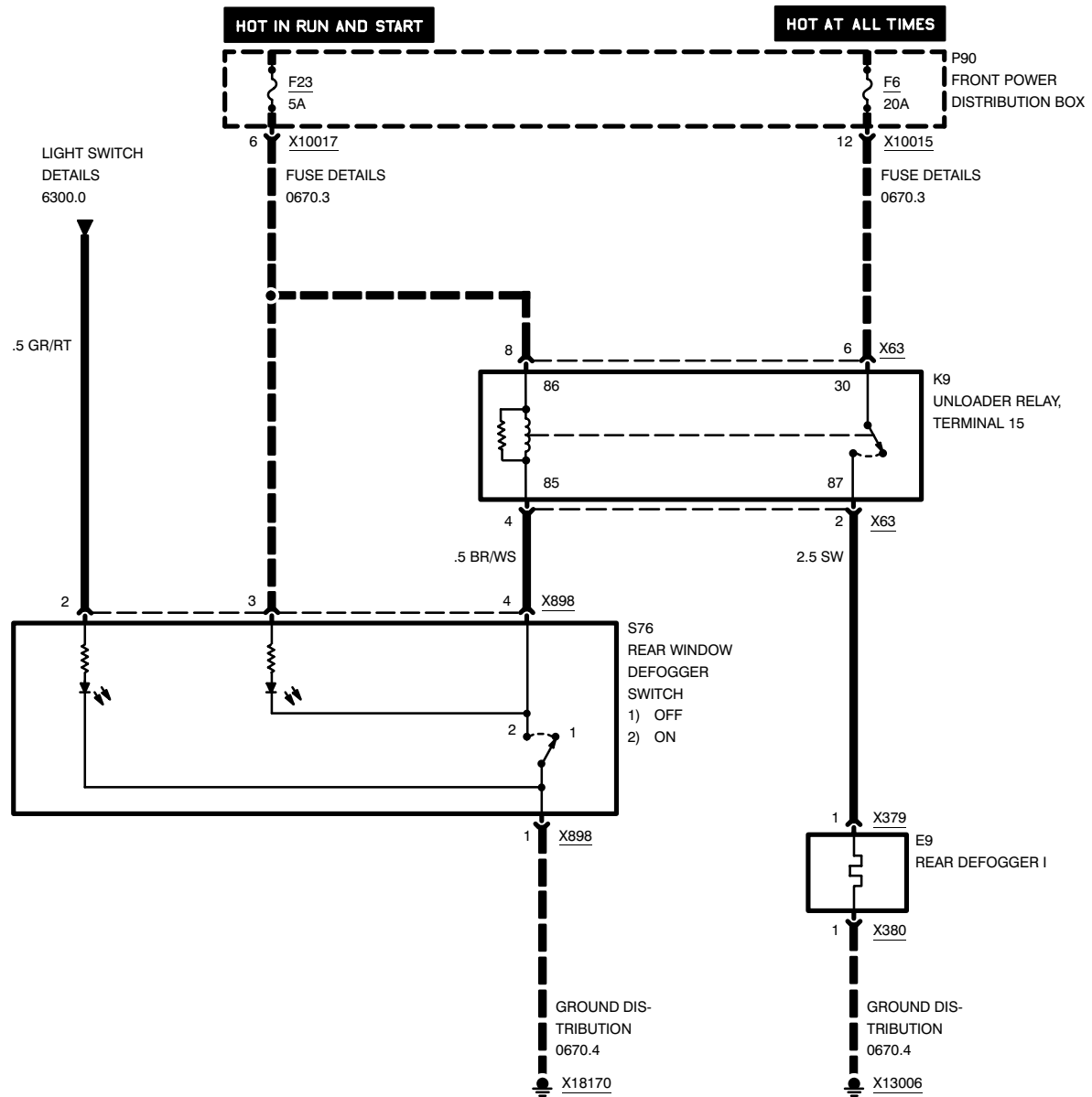
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1999



REAR WINDOW DEFOGGER

M COUPE



09/98

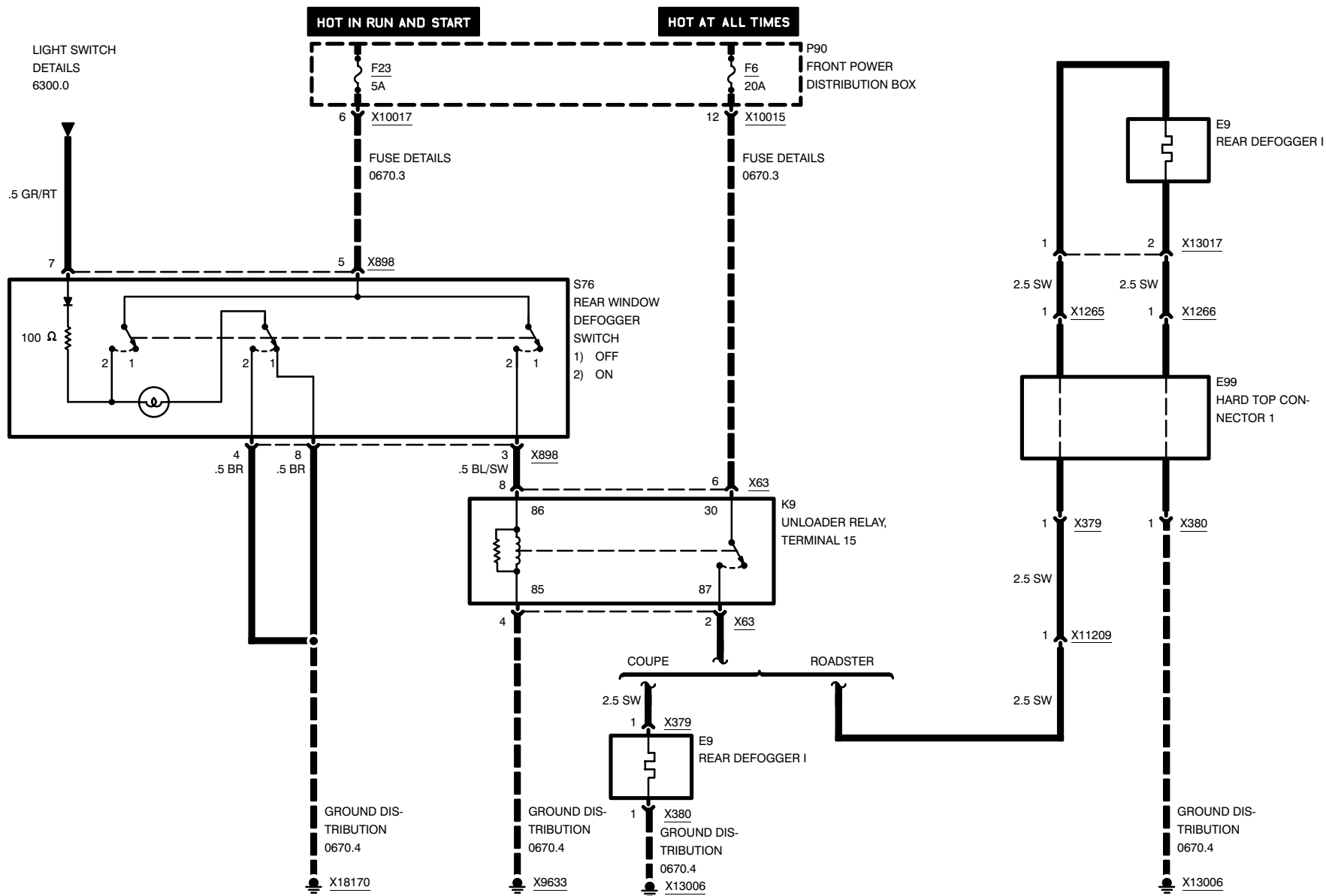
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1999



REAR WINDOW DEFOGGER

ROADSTER AND Z3 COUPE

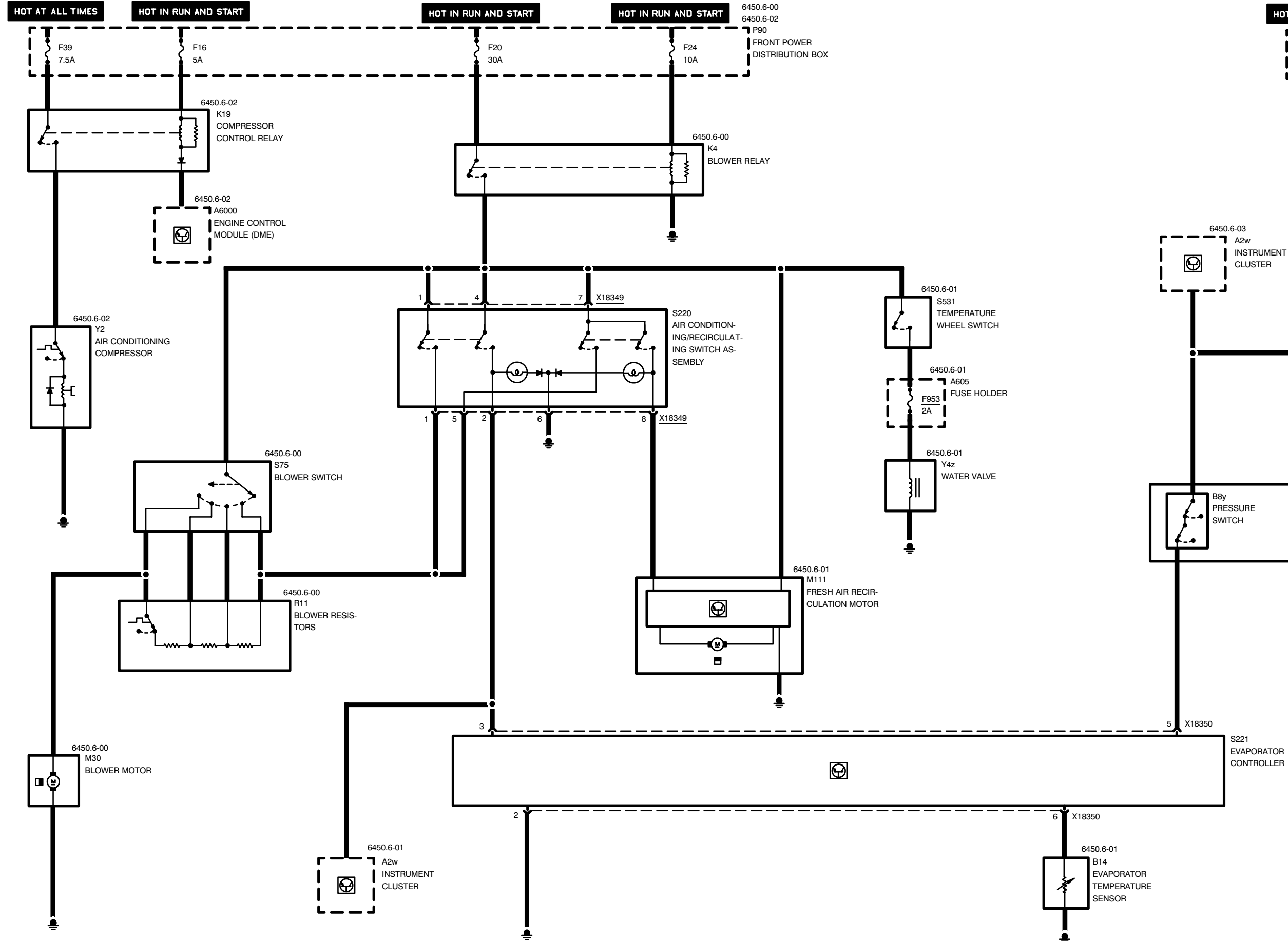


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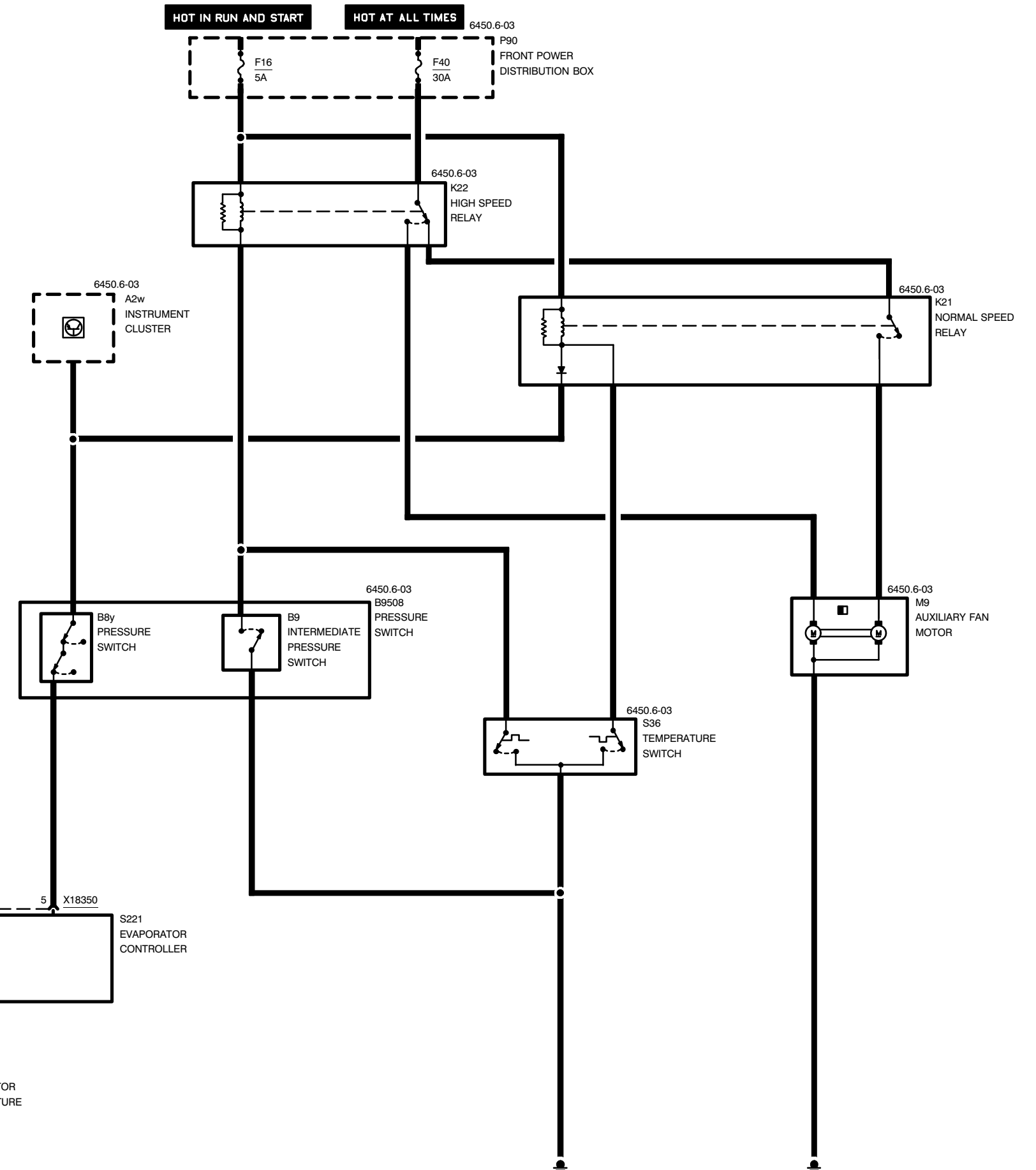
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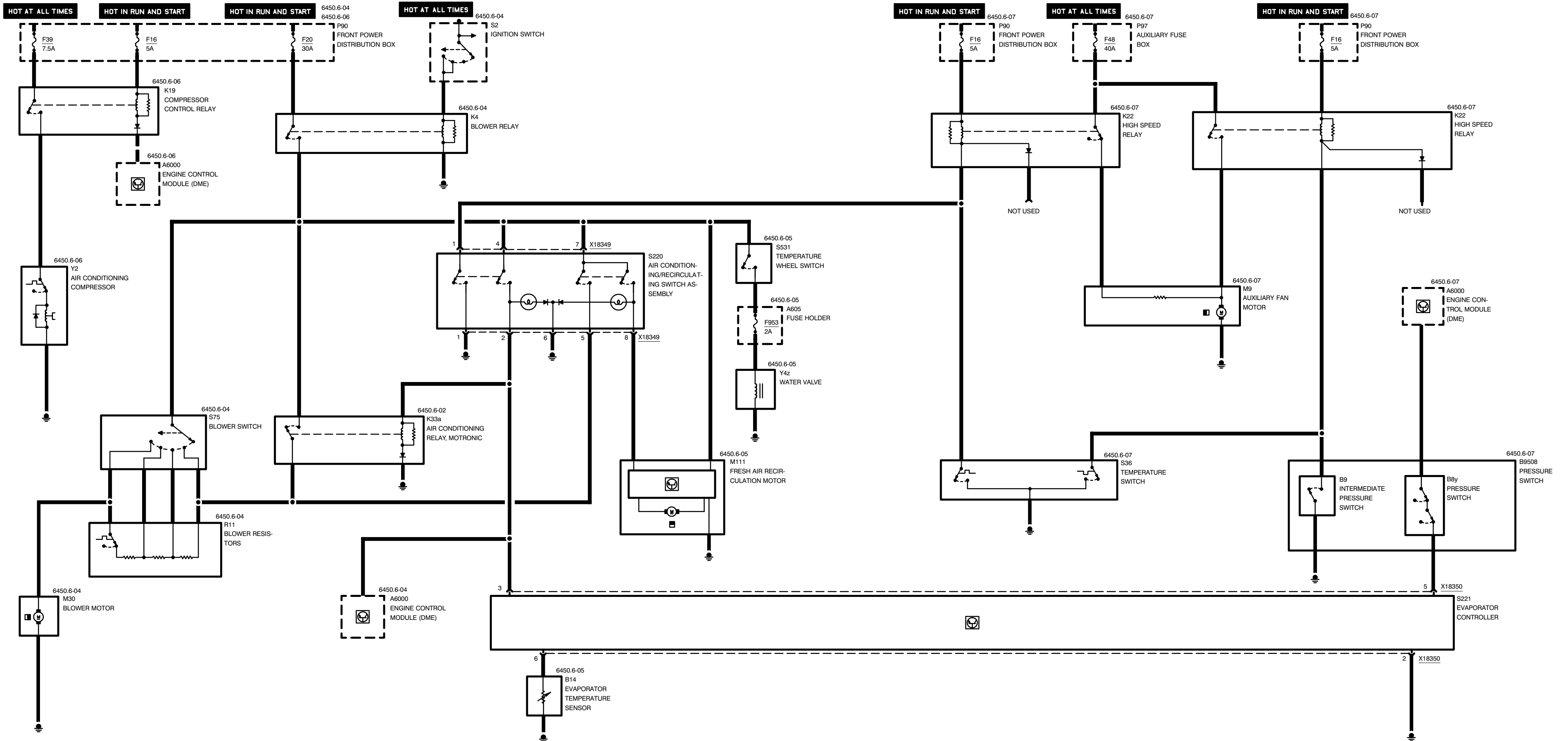
Z3 VERSIONS



AUXILIARY FAN

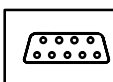


M VERSIONS





Z3

**Pin Assignments (Z3 Versions)**

X18349 8 Pins, black

X18350 6 Pins, black

X18349

Pin	Type	Description/Function	Connection
1	E	Terminal 15	Heating blower relay
2	A	Activate compressor clutch	Instrument cluster
3	A	Blower level 1 (air conditioning)	Blower resistor
4	E	Terminal 15	Heating blower relay
5	A	Blower level 1 (air-recirculation)	Blower resistor
6	M	Ground for function lights	Ground point
7	E	Terminal 15	Heating blower relay
8	A	Activate fresh air-recirculation	Fresh air-recirculation motor

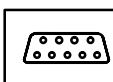
X18350

Pin	Type	Description/Function	Connection
1		Not used	
2	M	Ground	Ground point
3	E	Climate-ON-signal	Air conditioning/recirculated air operating unit
4		Not used	
5	A	Activate A/C compressor	Pressure switch
6	E	Evaporator temperature	Evaporator temperature sensor

E = Input, A = Output, M = Ground



Z3



Pin Assignments (M Versions)

X18349 8 Pins, black

X18350 6 Pins, black

X18349

Pin	Type	Description/Function	Connection
1	M	Ground	Ground point
2	A	A/C-ON-signal	Evaporator controller
3	A	A/C-ON-signal	Normal speed relay
4	E	Terminal 15	Heating blower relay
5	A	Blower level 1 (air-recirculation)	Blower resistor
6	M	Ground for function lights	Ground point
7	E	Terminal 15	Heating blower relay
8	A	Activate fresh air-recirculation	Fresh air-recirculation motor

X18350

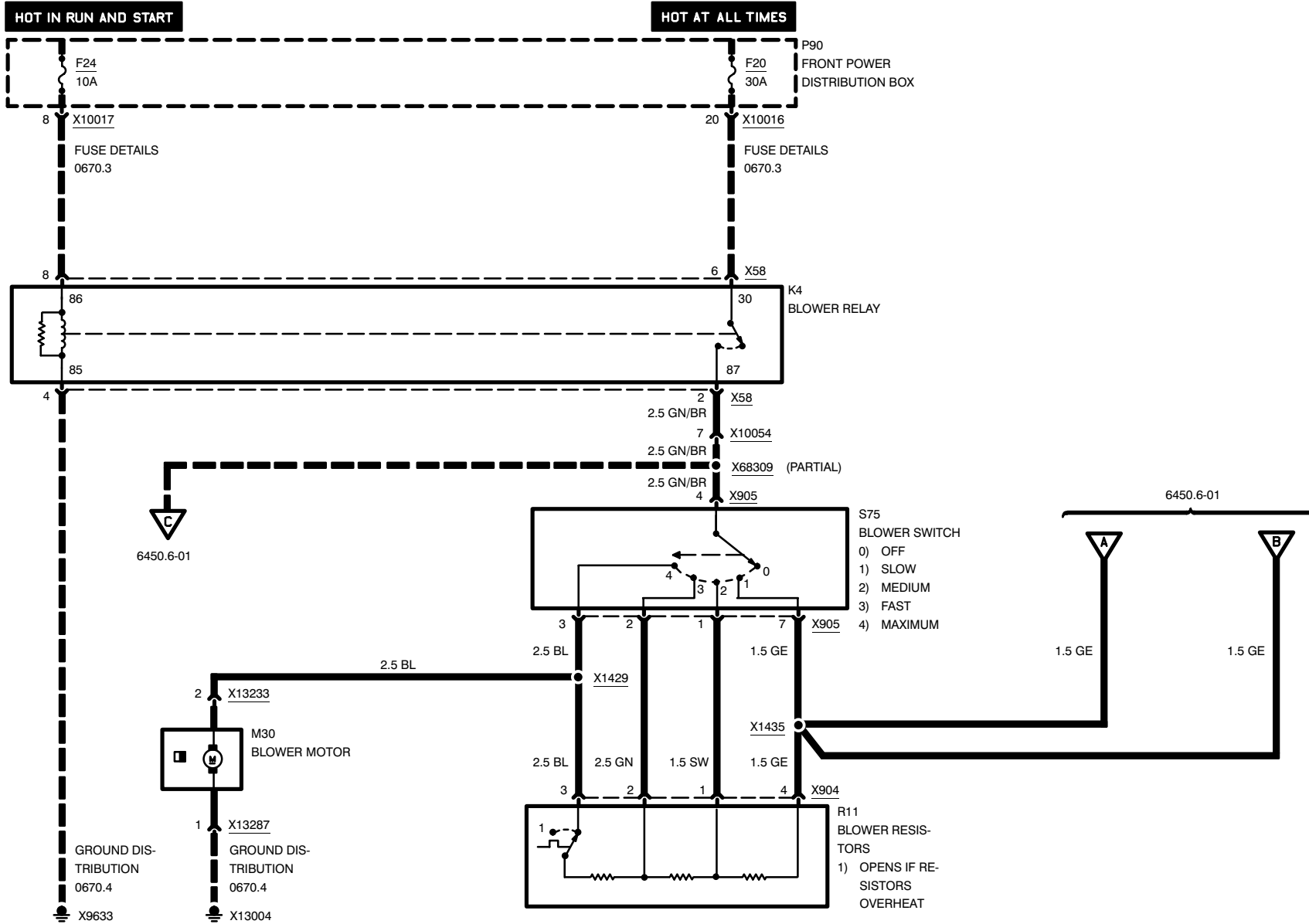
Pin	Type	Description/Function	Connection
1		Not used	
2	M	Ground	Ground point
3	E	Climate-ON-signal	Air conditioning/recirculated air operating unit
4		Not used	
5	A	Activate A/C compressor	Pressure switch
6	E	Evaporator temperature	Evaporator temperature sensor

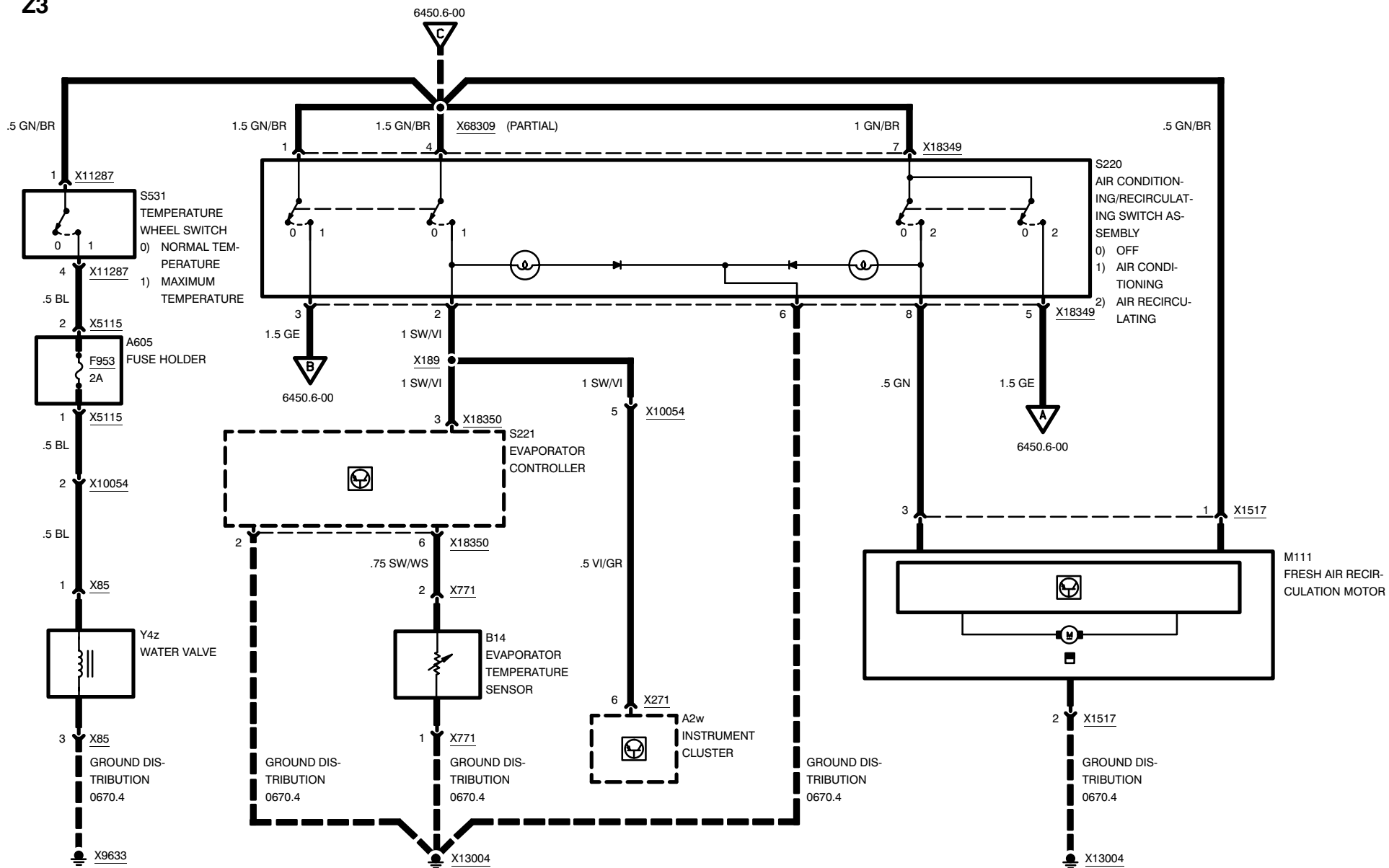
E = Input, A = Output, M = Ground

INTEGRATED HEATING – AND CLIMATE CONTROL

Z3 VERSIONS

POWER, AIR FLOW CONTROL

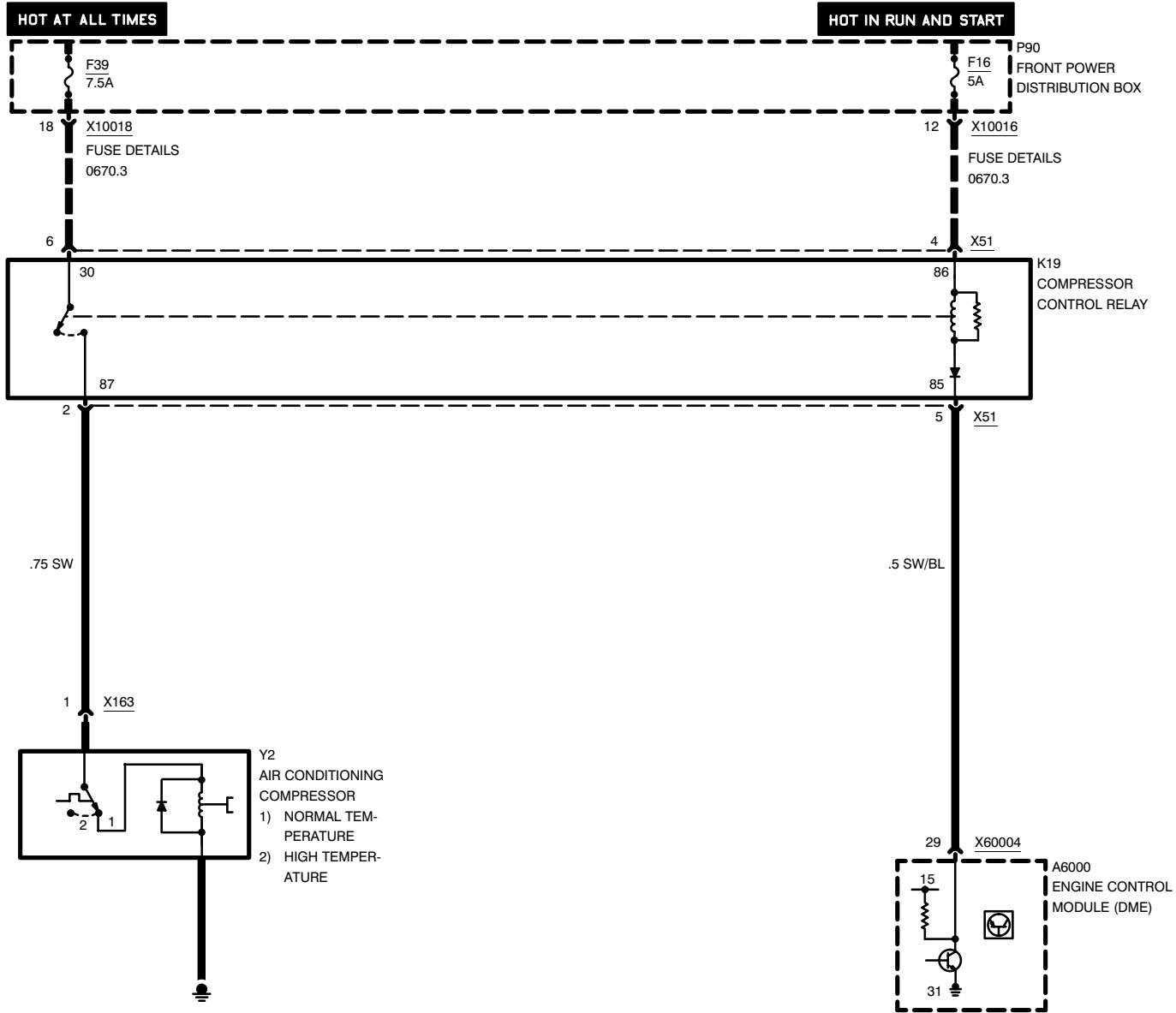






INTEGRATED HEATING – AND CLIMATE CONTROL COMPRESSOR CONTROLS

Z3 VERSIONS



09/98

6450.6-02

1999

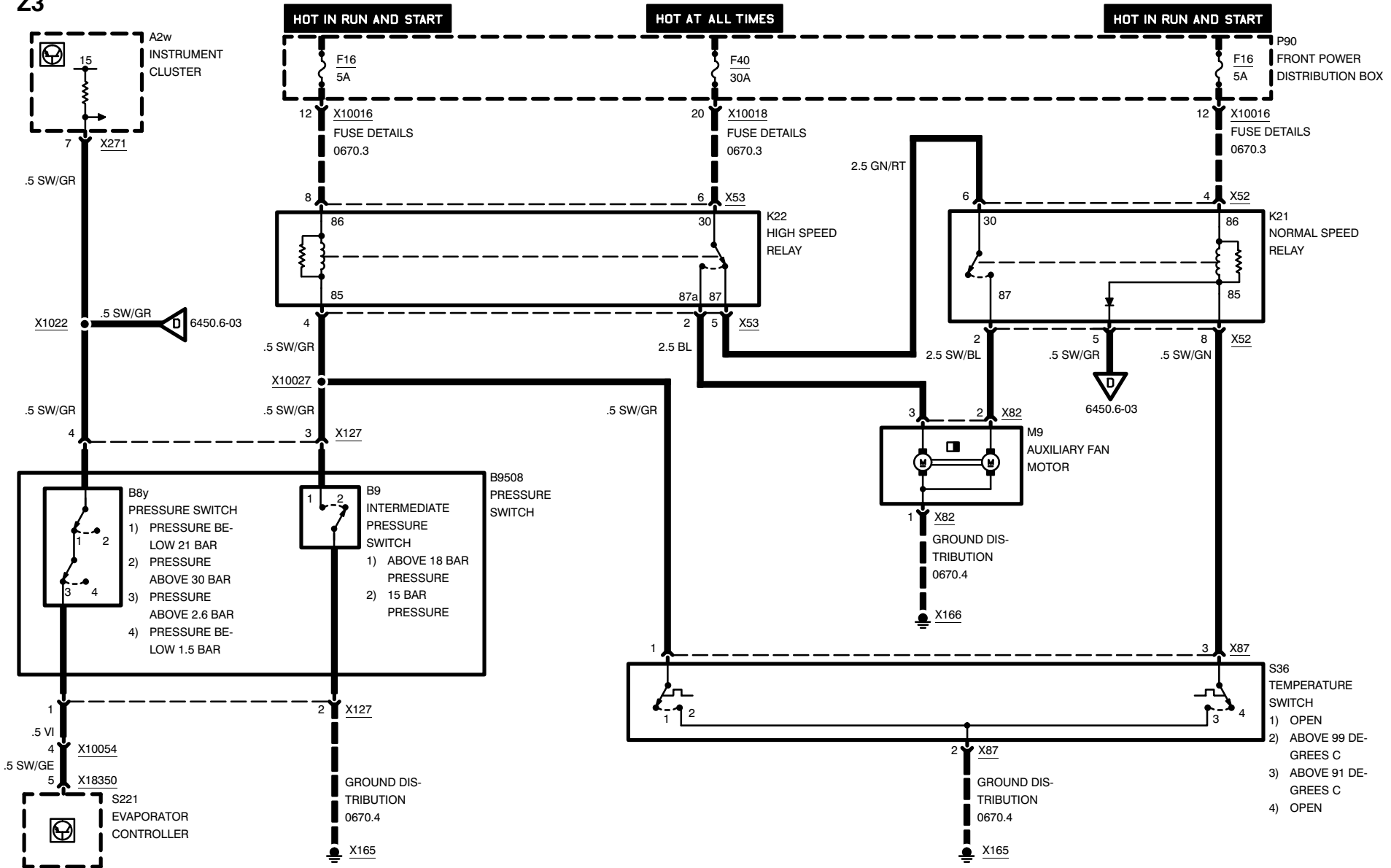


Z3

INTEGRATED HEATING – AND CLIMATE CONTROL

AUXILIARY FAN

Z3 VERSIONS



09/98

6450.6-03

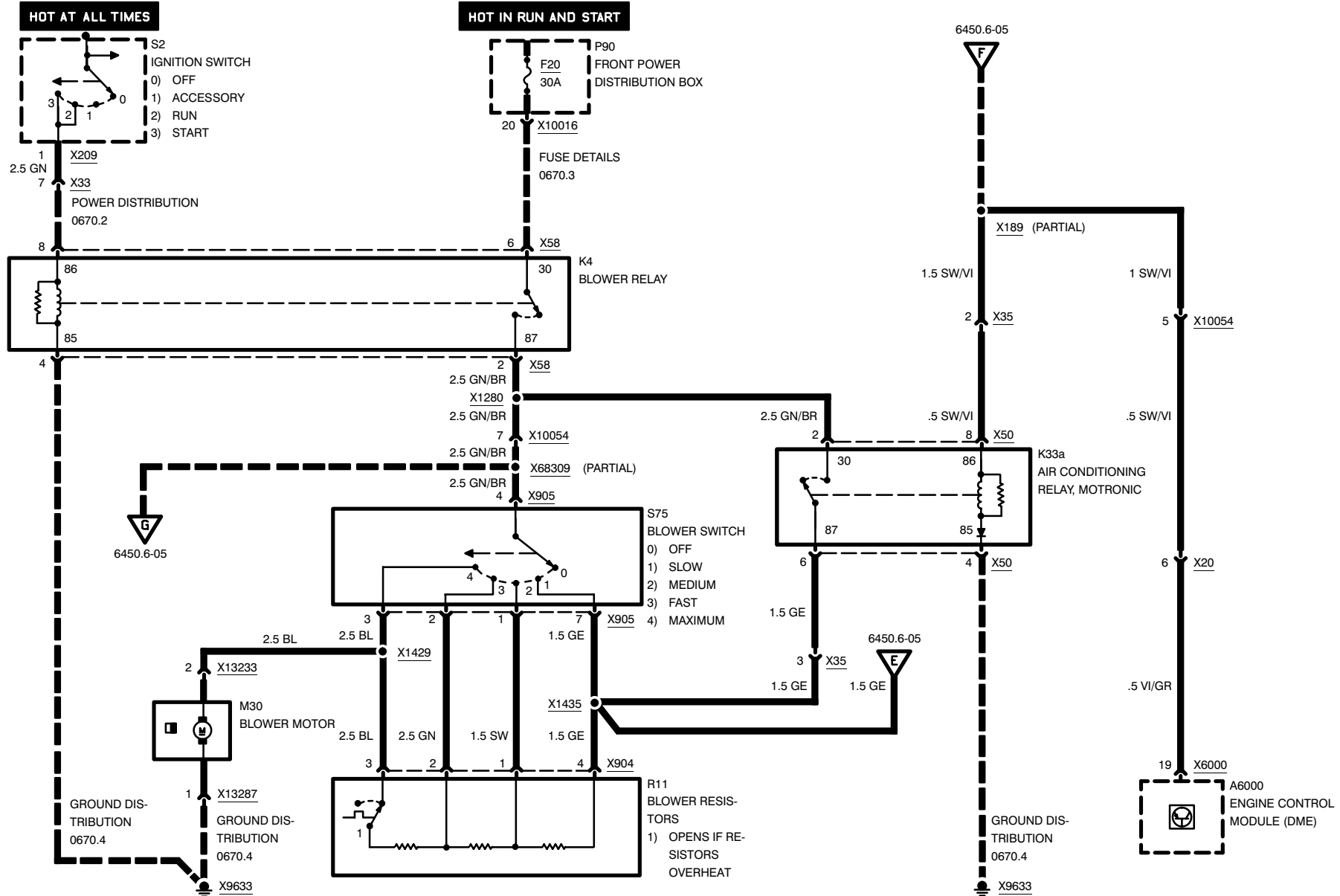
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INTEGRATED HEATING – AND CLIMATE CONTROL

M VERSIONS

POWER, AIR FLOW CONTROL



09/98

6450.6-04

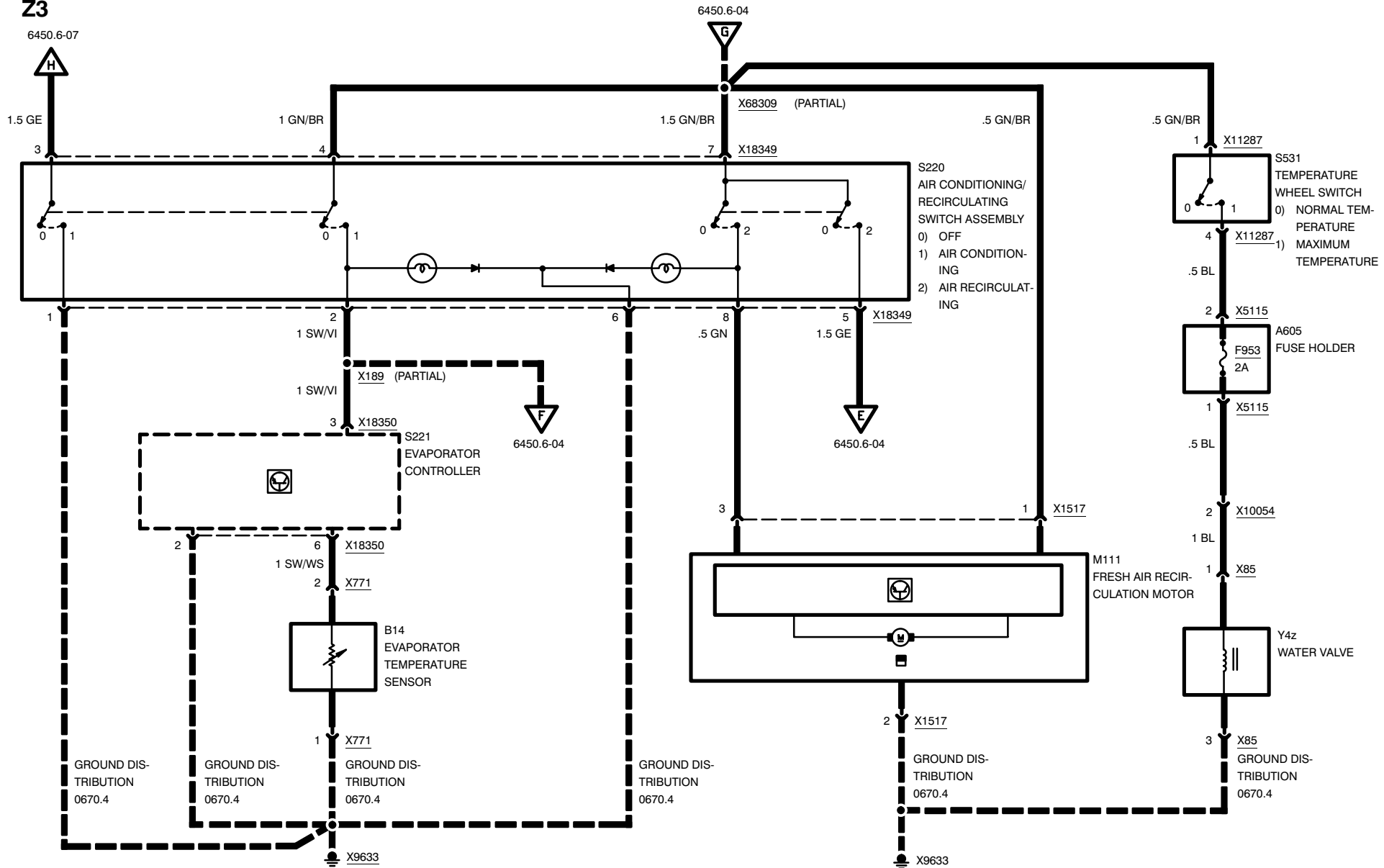
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Z3

INTEGRATED HEATING – AND CLIMATE CONTROL

M VERSIONS



09/98

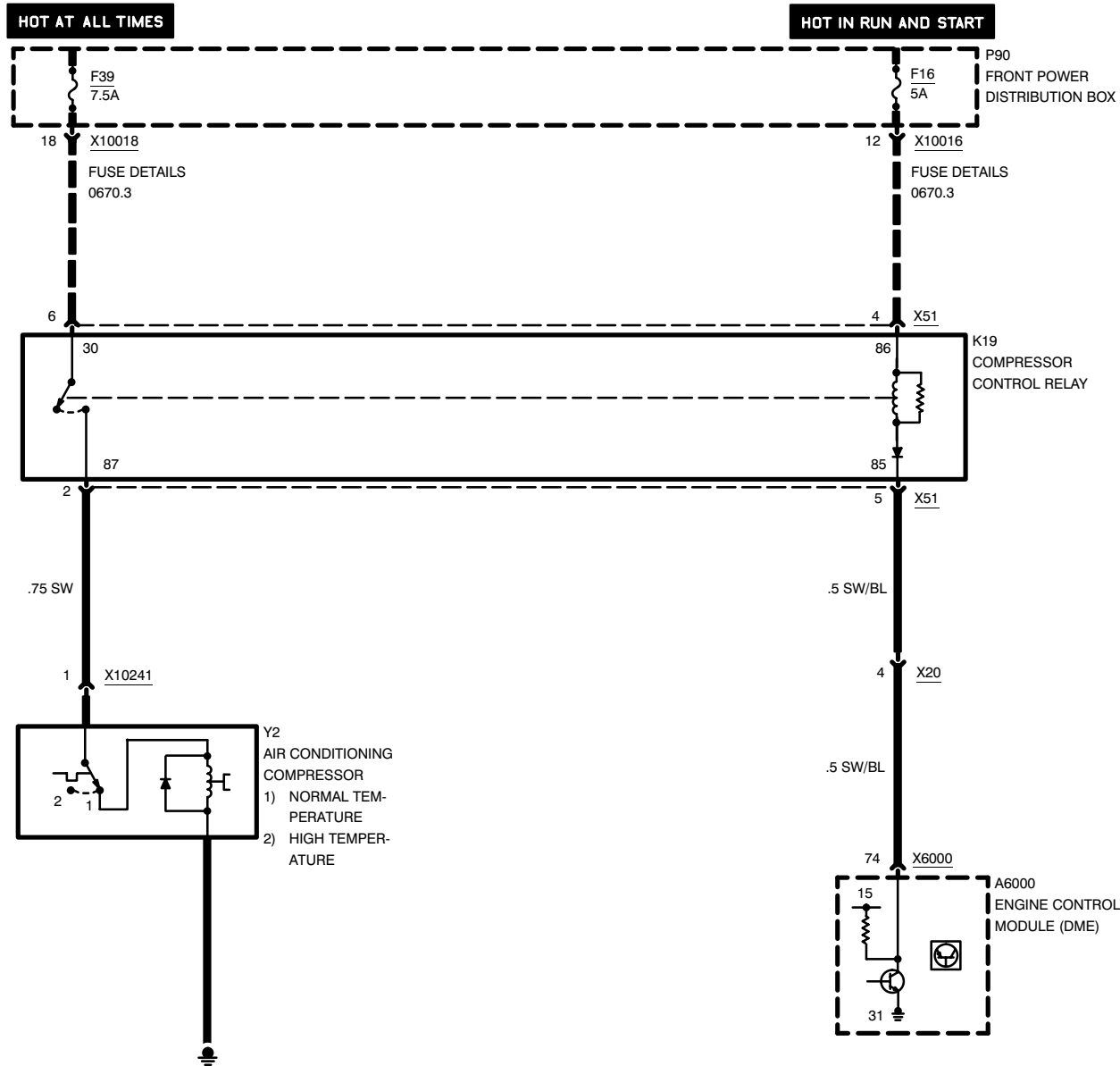
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INTEGRATED HEATING – AND CLIMATE CONTROL COMPRESSOR CONTROL AND WATER SUPPLY

M VERSIONS



09/98

6450.6-06

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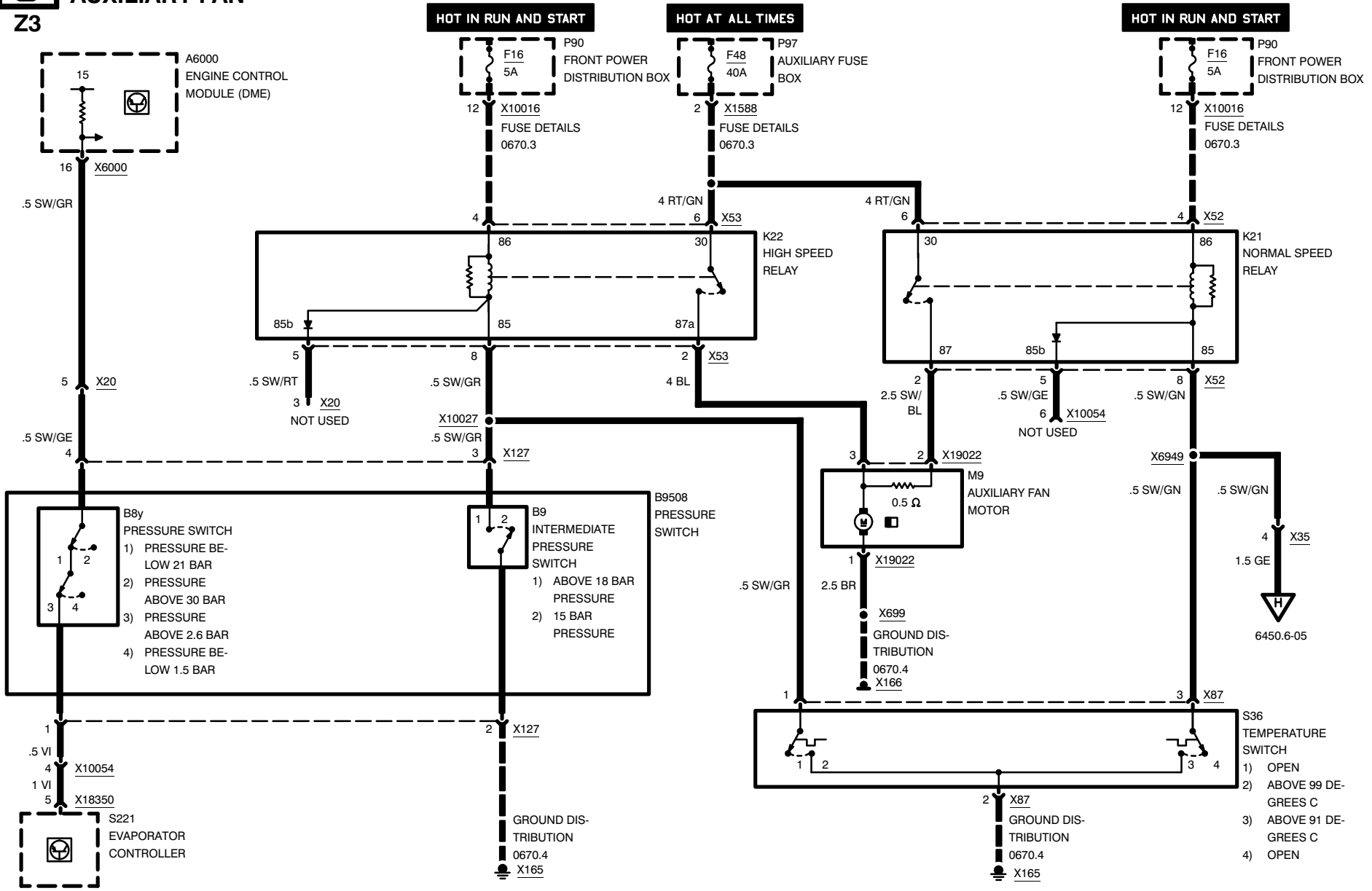


INTEGRATED HEATING – AND CLIMATE CONTROL

M VERSIONS

AUXILIARY FAN

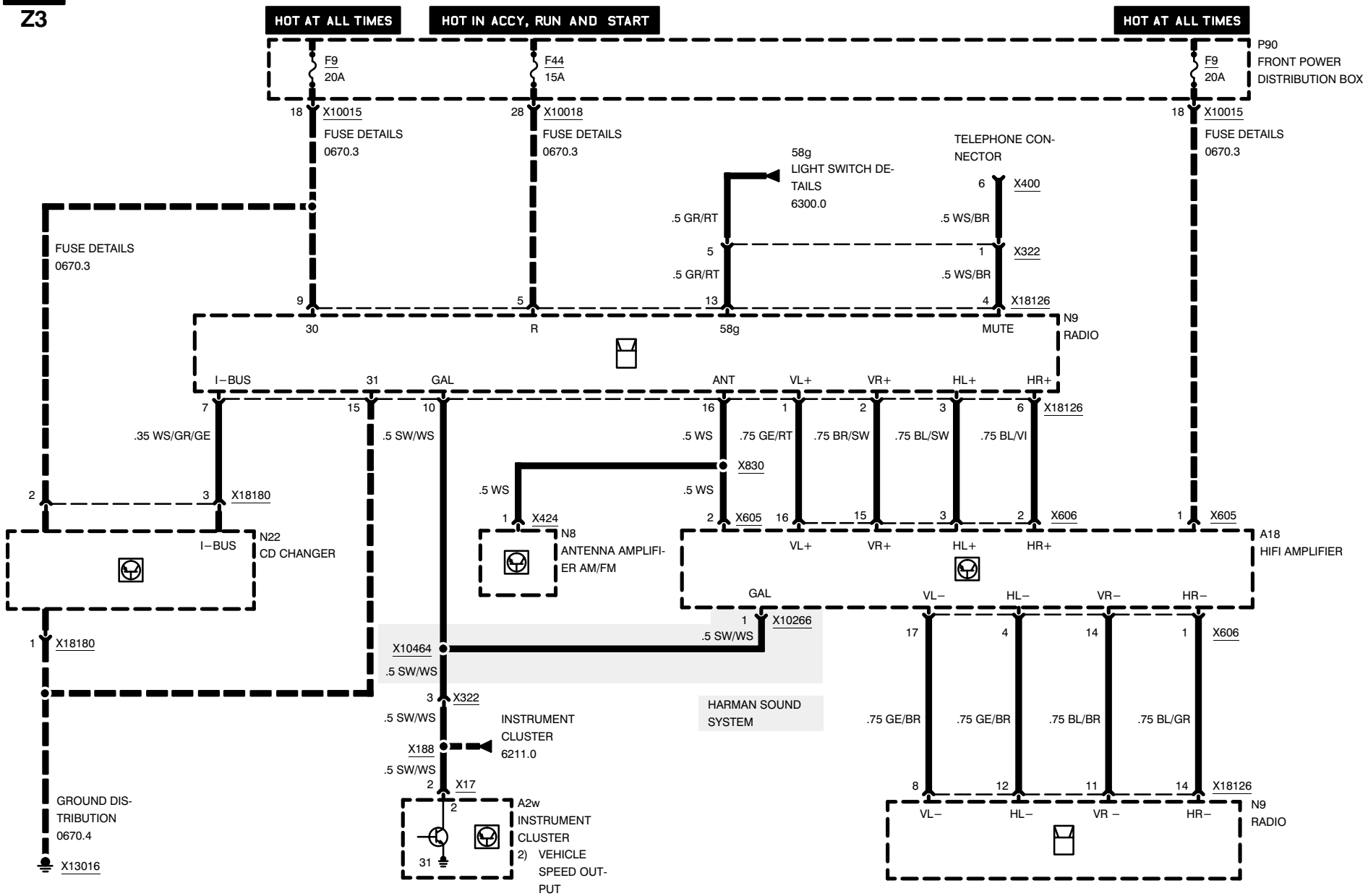
Z3





RADIO/HIFI

Z3



09/98

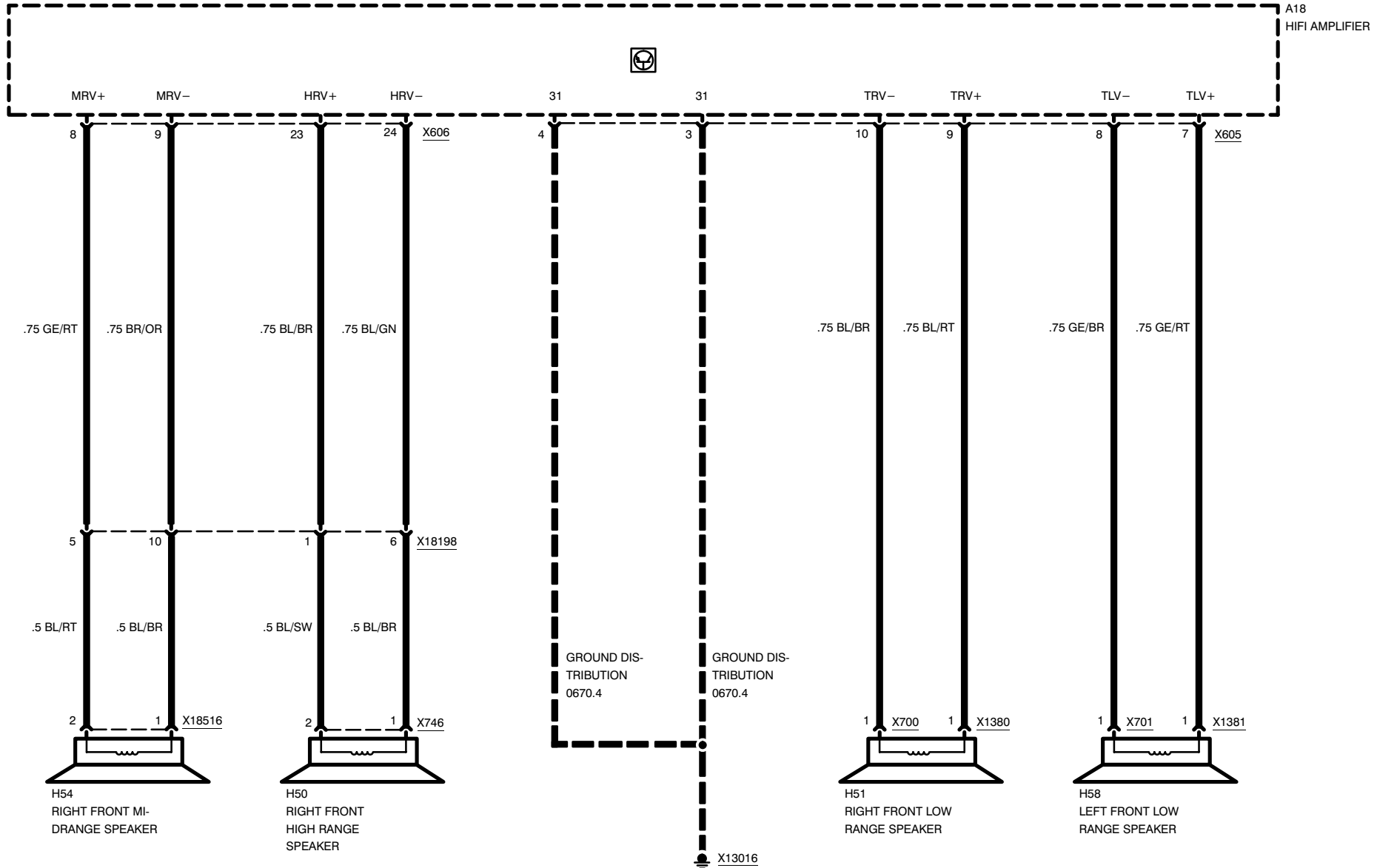
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RADIO/HIFI

Z3



09/98

6510.1-01

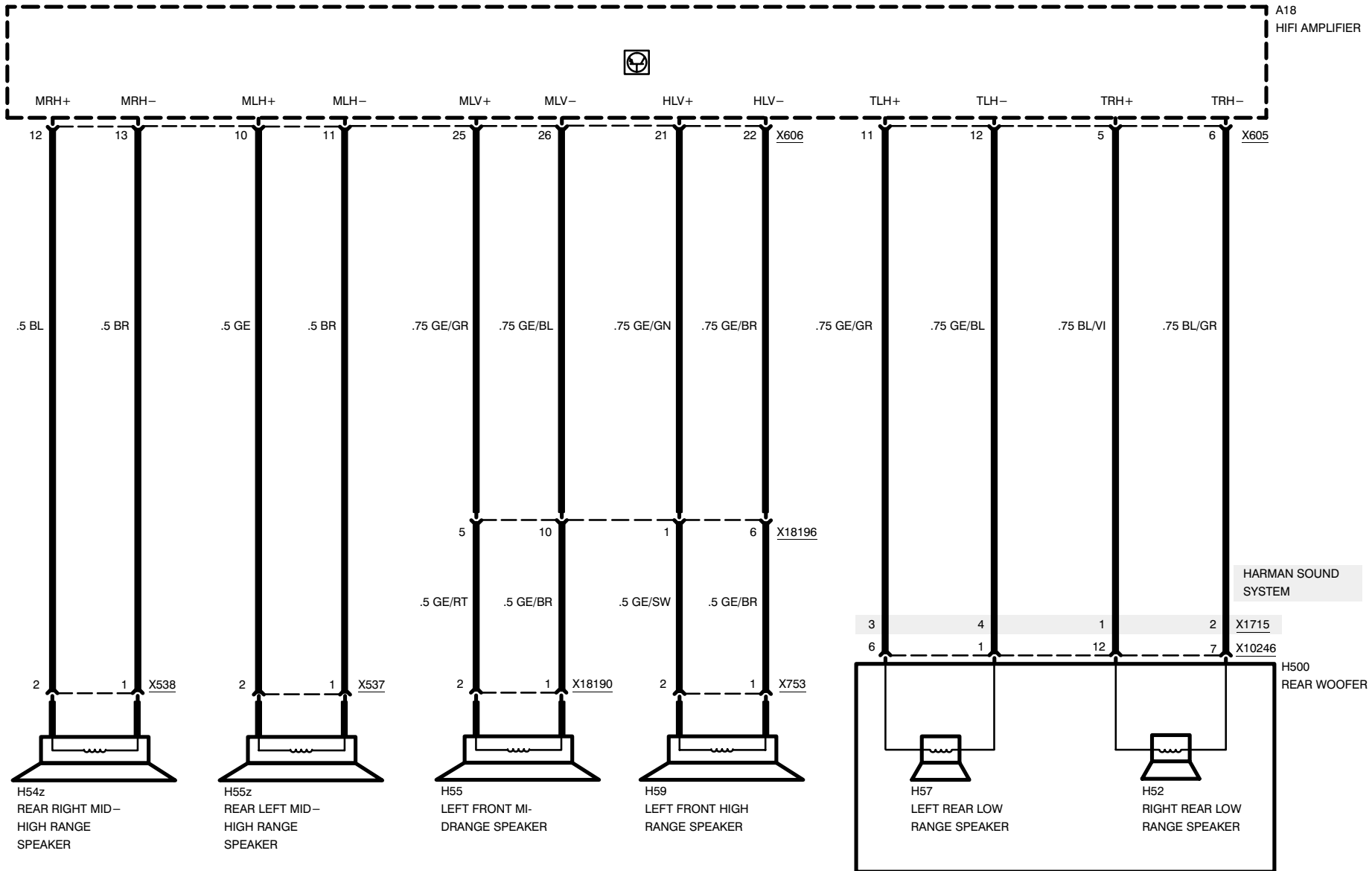
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RADIO/HIFI

COUPE WITH HARMAN SOUND SYSTEM AND ROADSTER

Z3



09/98

6510.1-02

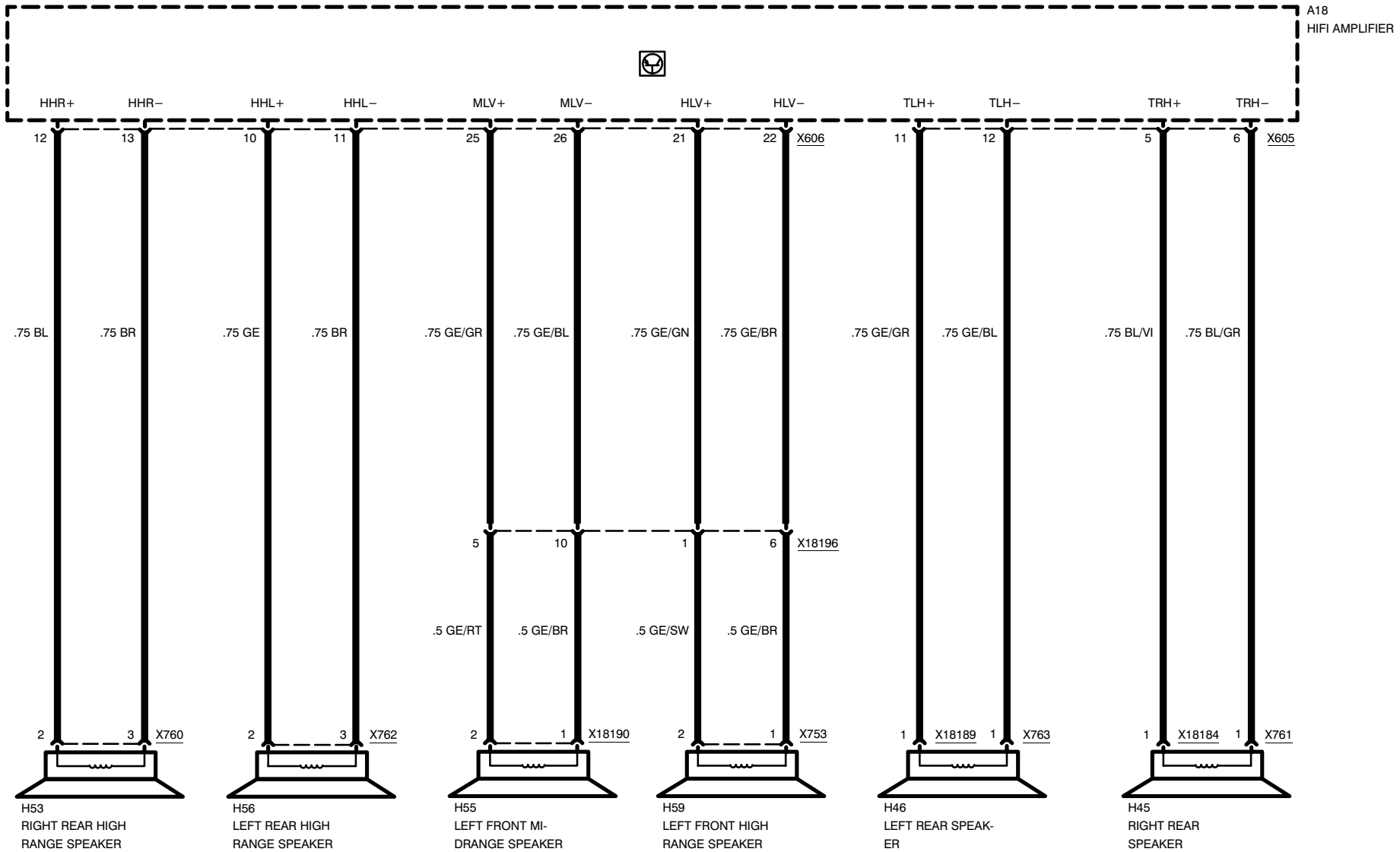
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RADIO/HIFI

COUPE WITH HIFI

Z3



09/98

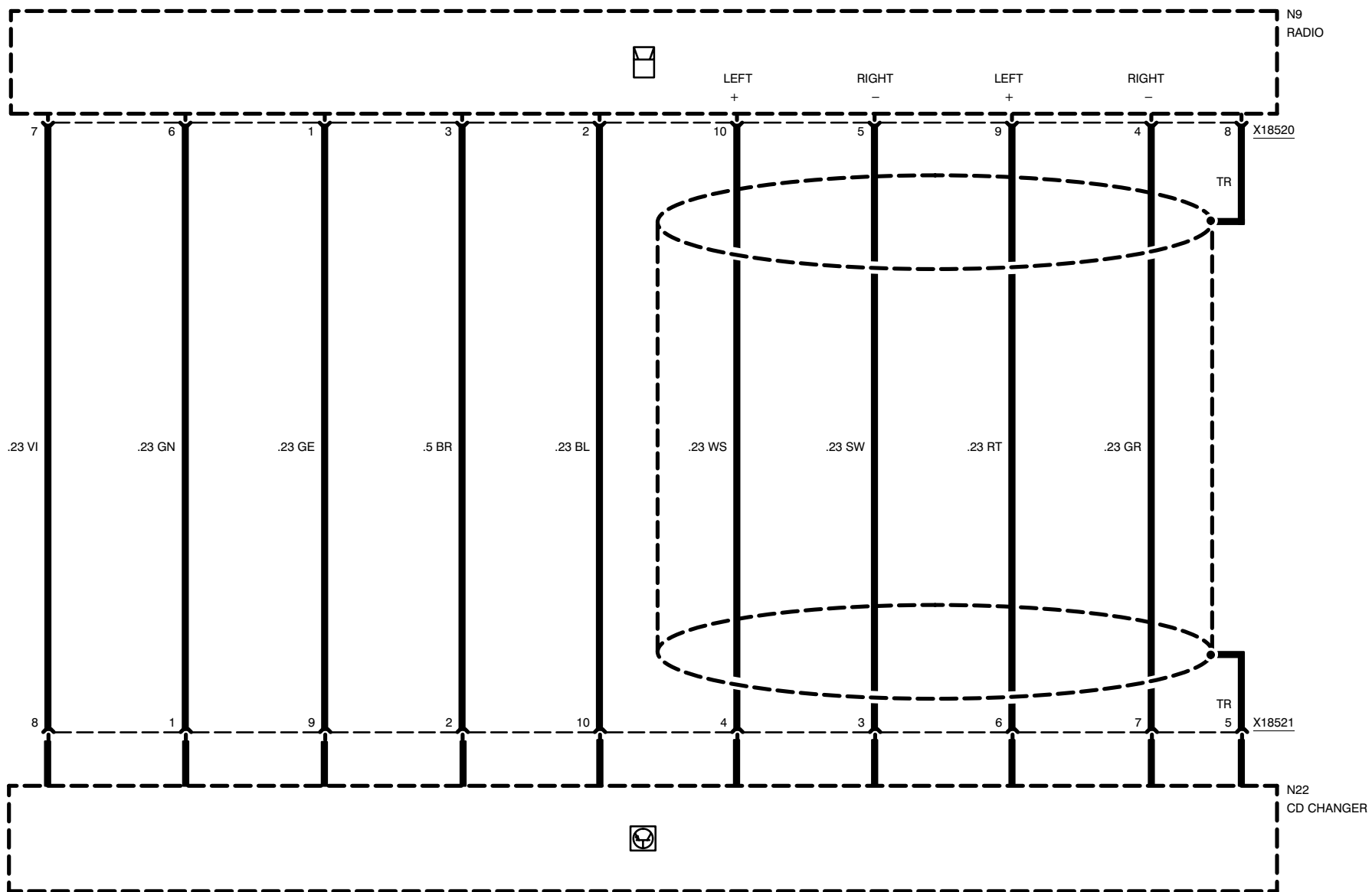
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RADIO/HIFI

Z3



09/98

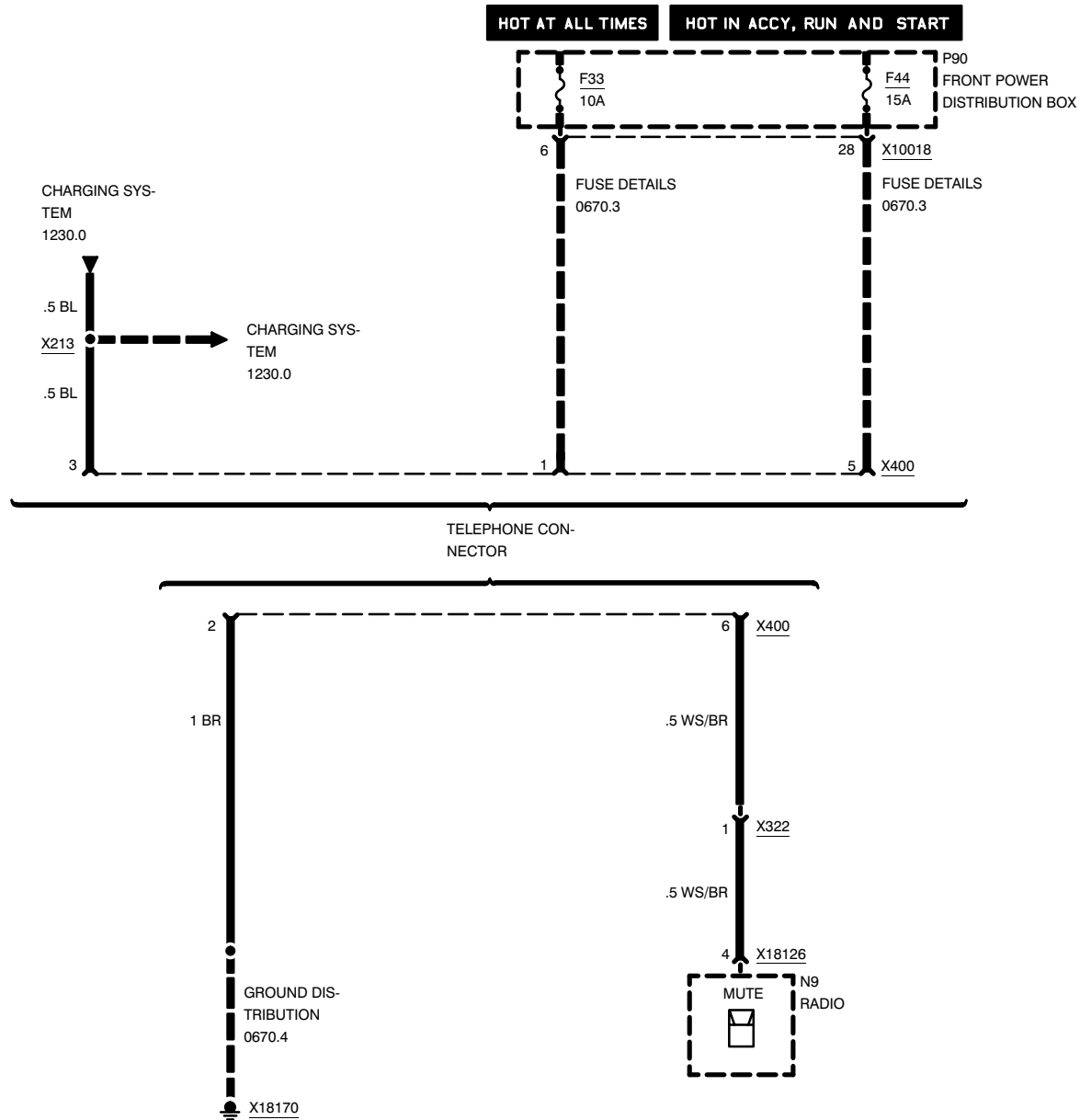
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1999



CELLULAR TELEPHONE (PROVISIONS)

PROVISIONS



09/98

6561.0-00

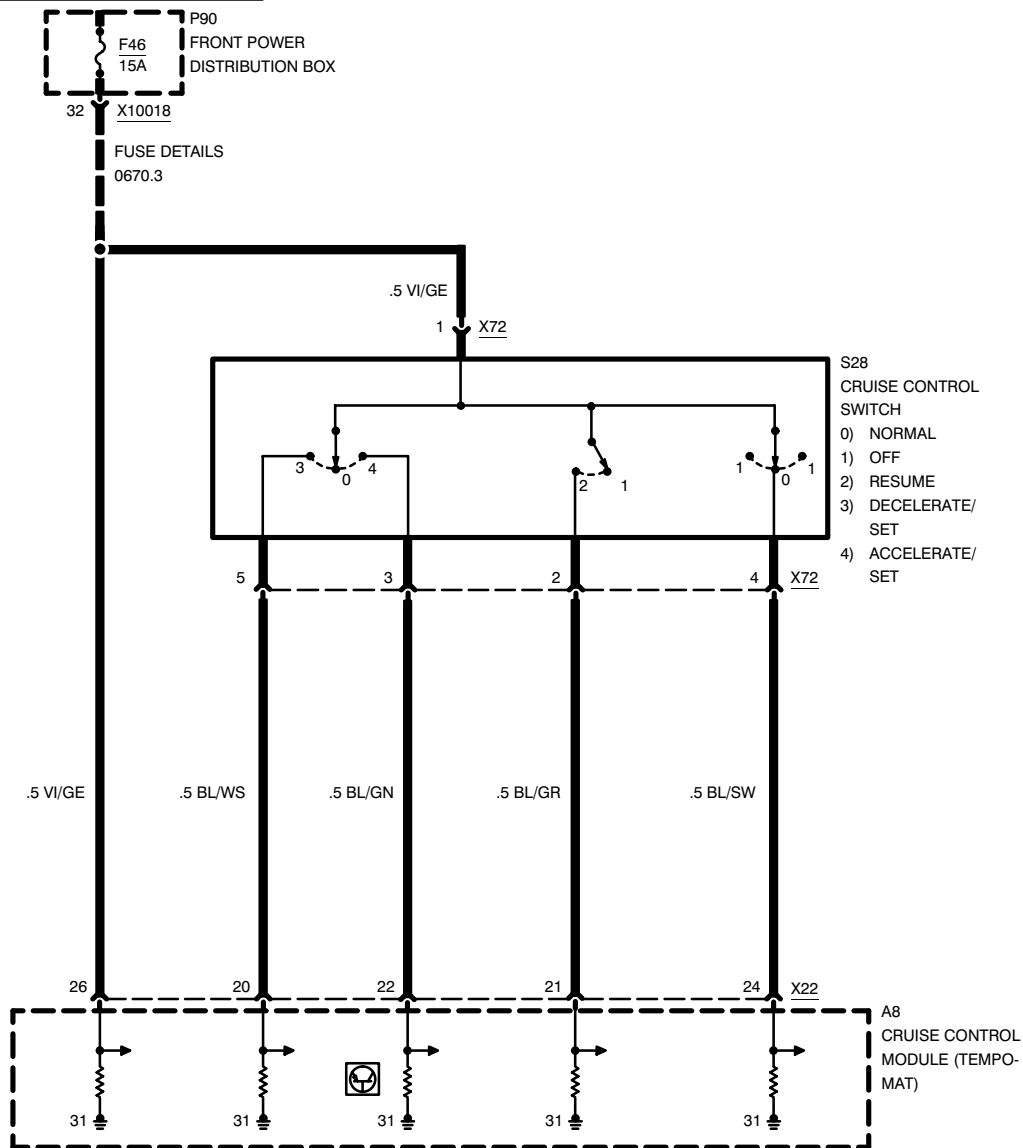
1999



CRUISE CONTROL (TEMPOMAT)

M VERSIONS

HOT IN ACCY, RUN AND START



09/98

6571.0-00

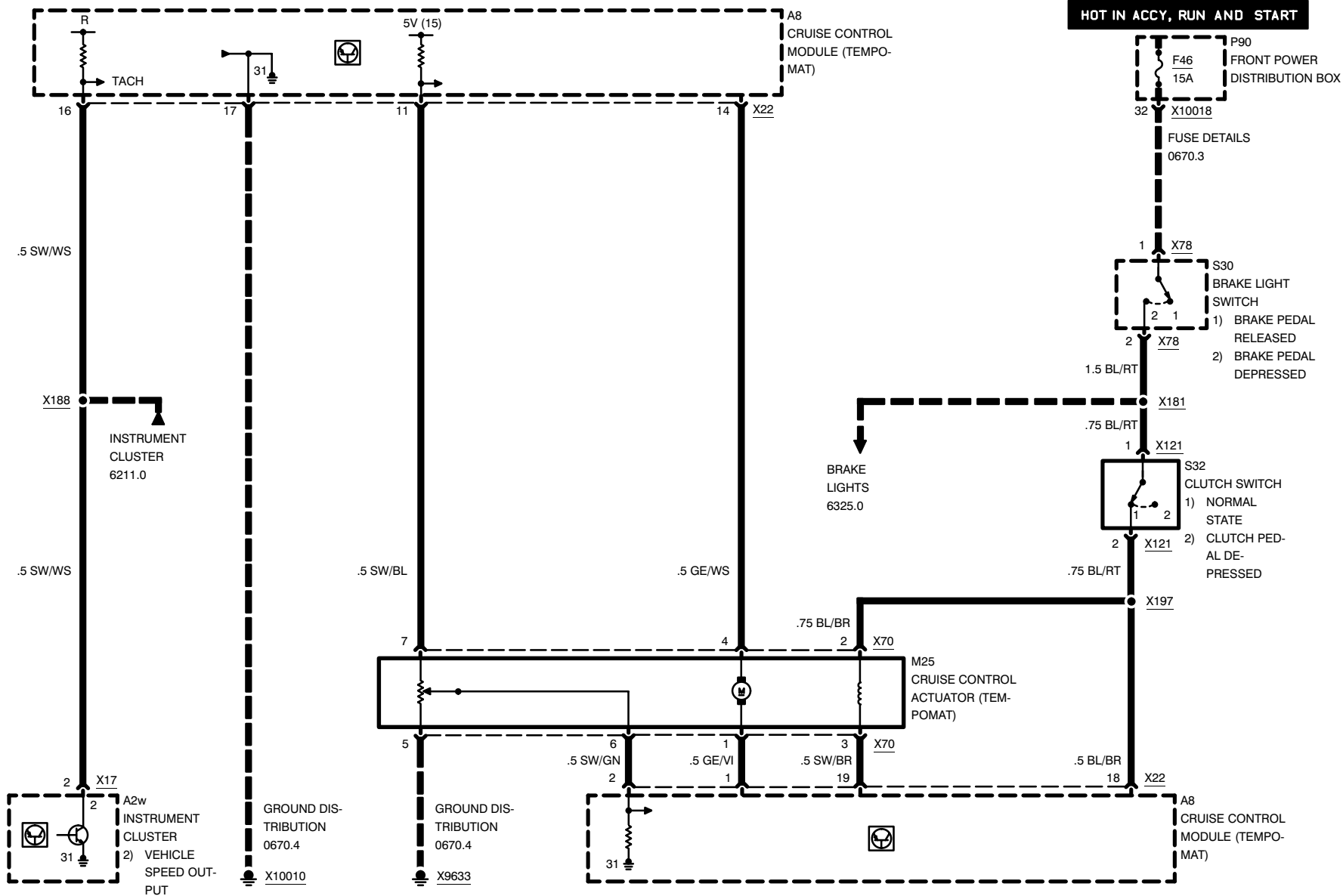
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CRUISE CONTROL (TEMPOMAT)

M VERSIONS

Z3



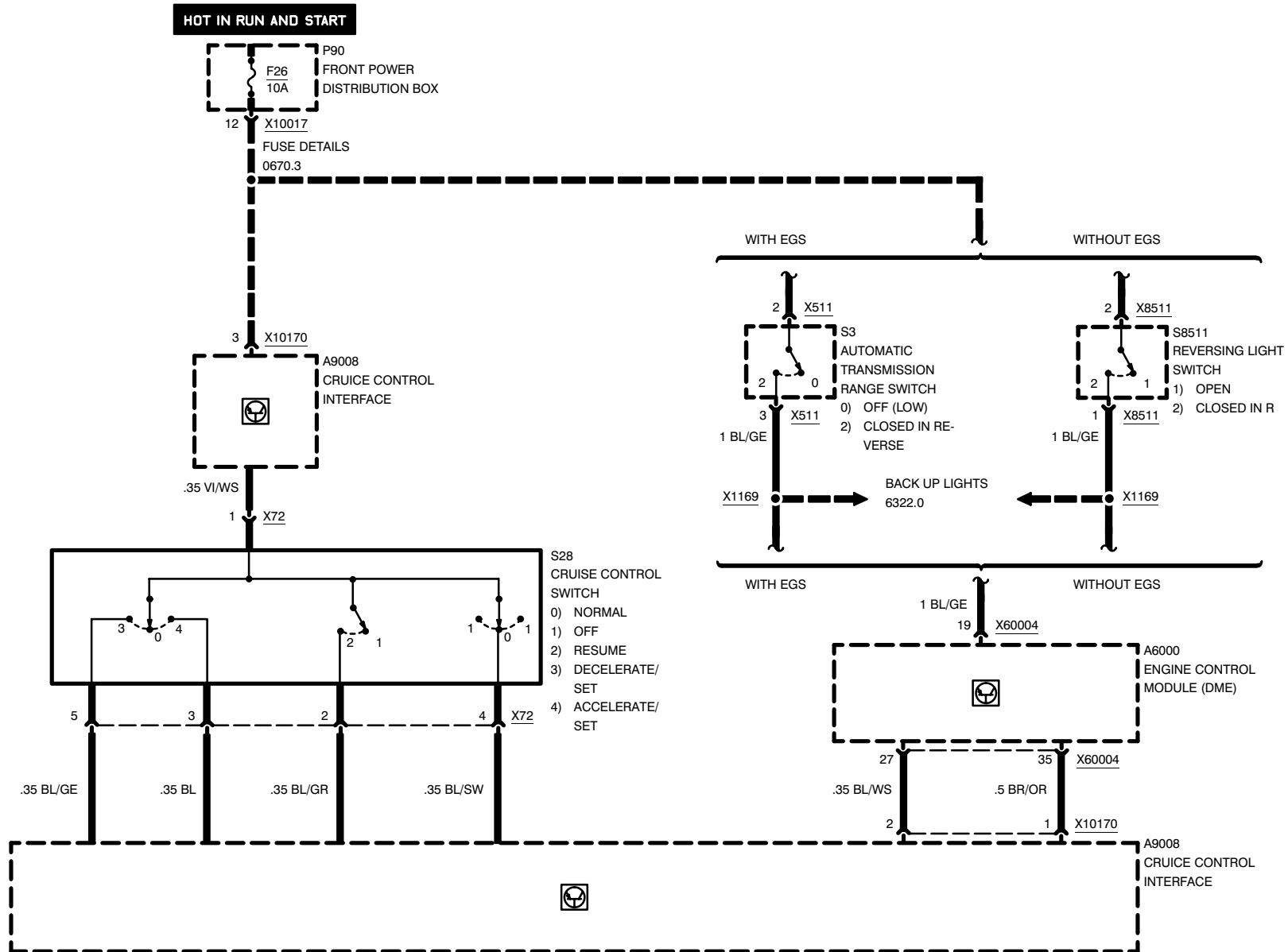
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6571.0-01

1999

CRUISE CONTROL (TEMPOMAT)

Z3 VERSIONS

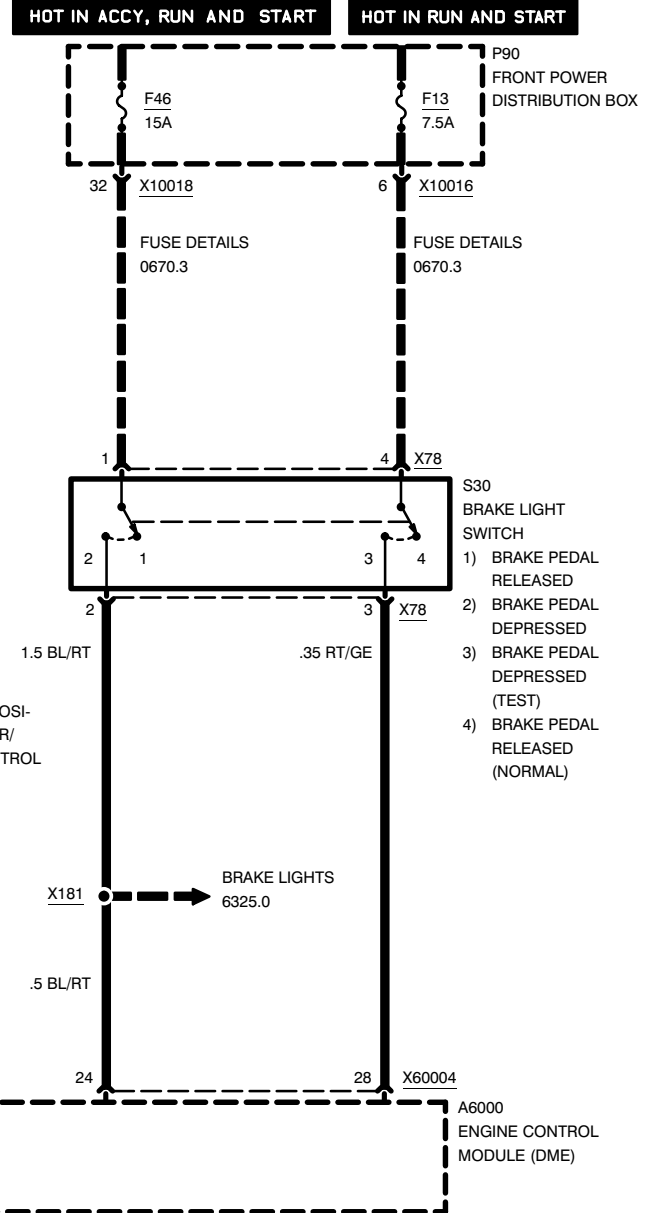
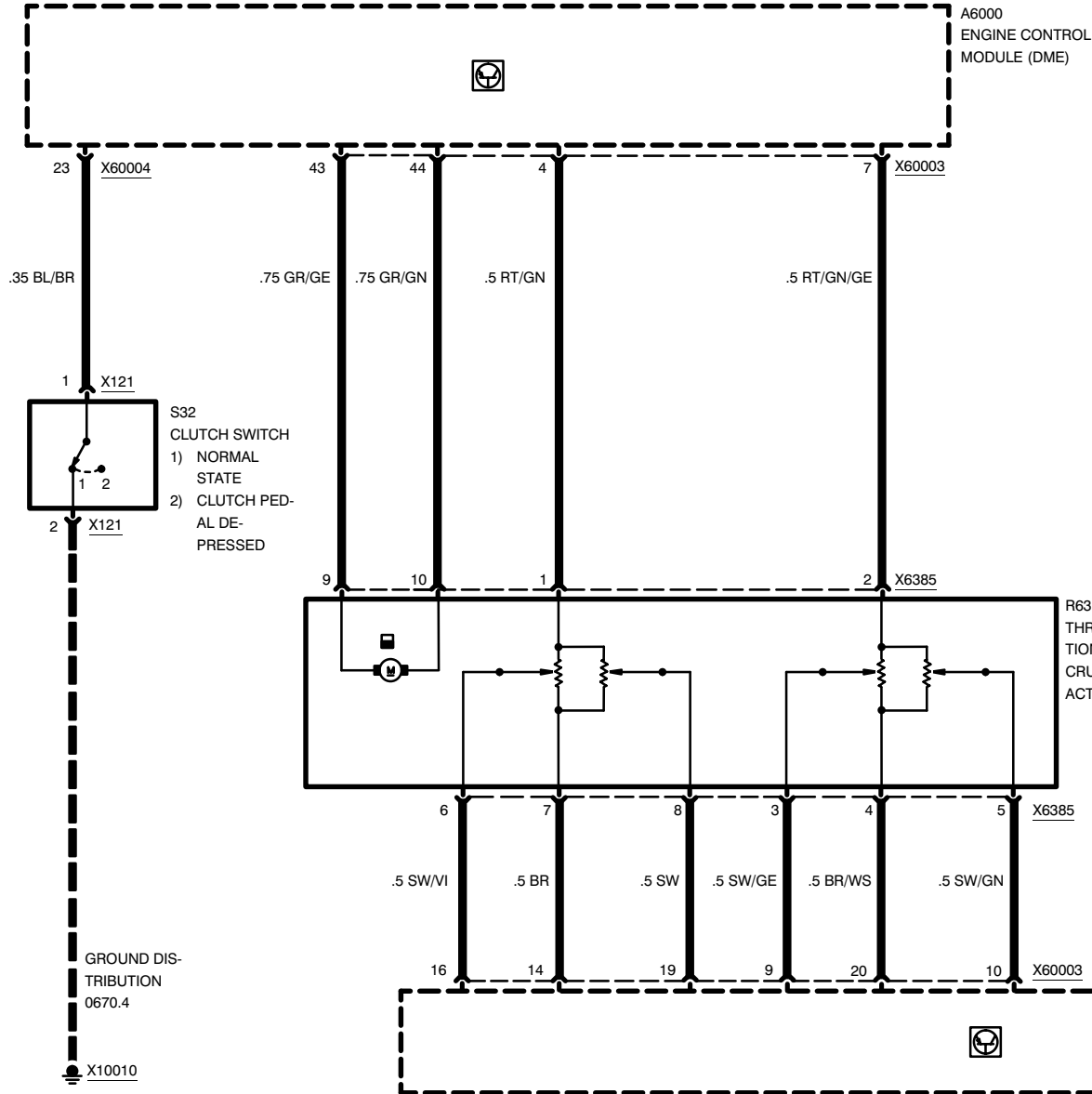




CRUISE CONTROL (TEMPOMAT)

Z3 VERSIONS

Z3

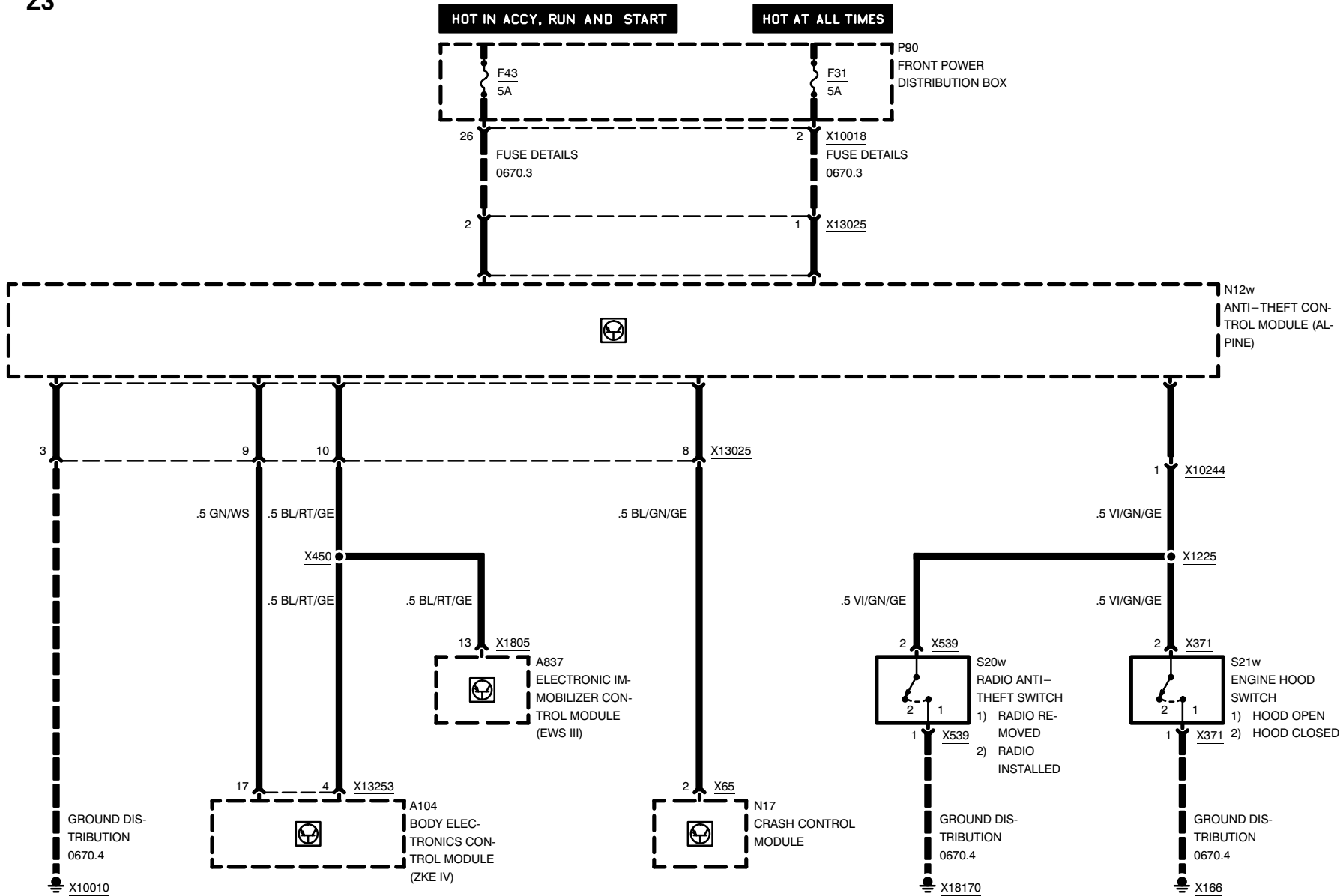


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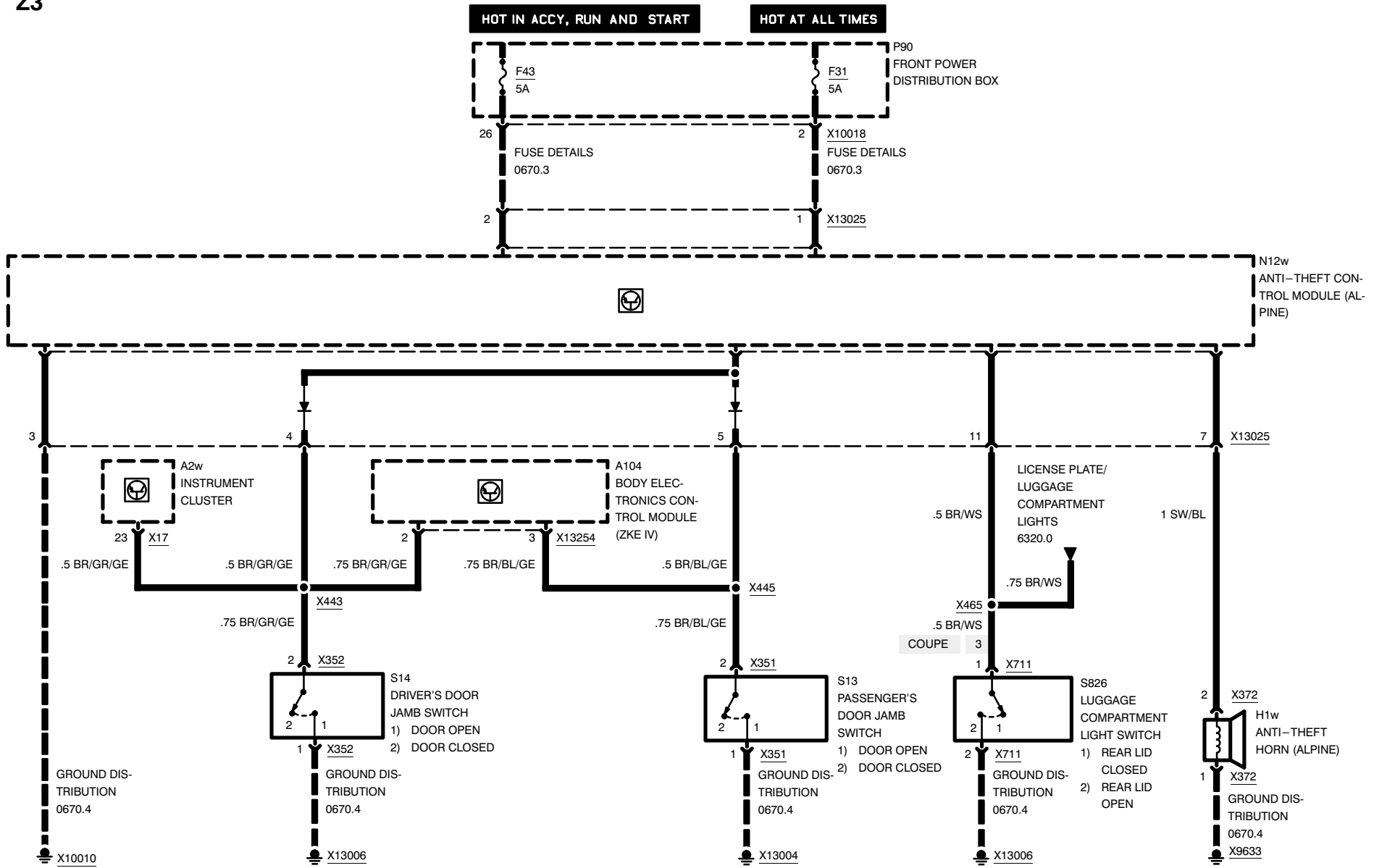
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1999

ANTI-THEFT SYSTEM (ALPINE)



ANTI-THEFT SYSTEM (ALPINE)



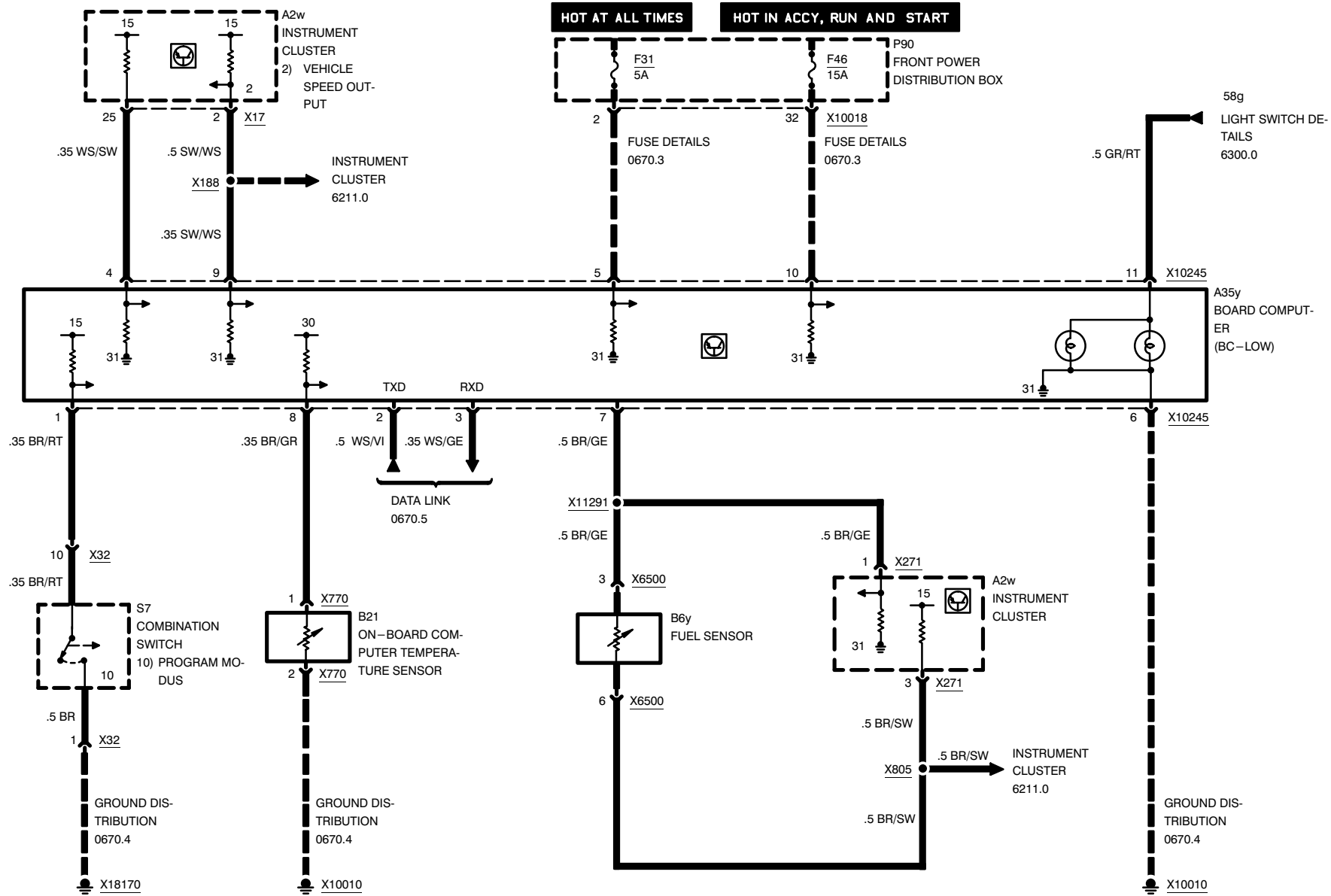


BOARD COMPUTER (BC-LOW)

09/98

6581.3-00

1999





COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A2w	INSTRUMENT CLUSTER	LH side of dash	20-2	
A8	CRUISE CONTROL MODULE (TEMPOMAT)	behind glove box	00-2	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	below center console	22-2	
A18	HIFI AMPLIFIER	in RH side of luggage compartment	27-3	
A35y	BOARD COMPUTER (BC-LOW)	center console	00-3	
A36	REAR WIPER/WASHER INTERVAL CONTROL MODULE	in lift gate	37-2	
A51	WIPER/WASHER MODULE	behind glove box		
A52	SLIP CONTROL MODULE (ABS/ASC)	front LH side of engine compartment (Z3 VERSIONS)		
A52	SLIP CONTROL MODULE (ABS/ASC)	behind glove box (M VERSIONS)	00-2	
A104	BODY ELECTRONICS CONTROL MODULE (ZKE IV)	behind glove box		
A110	DIGITAL CLOCK	center console		
A113	SEAT OCCUPANCY DETECTOR	under RH front seat	24-1	
A113	SEAT OCCUPANCY DETECTOR	under RH front seat (WITH SPORT SEAT)	11-2	
A605	FUSE HOLDER	center console (radio and console removed)	36-1	
A837	ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS III)	LH side of steering column		
A6000	ENGINE CONTROL MODULE (DME)	rear RH side of engine compartment in E-Box	00-1	
A8500	TRANSMISSION CONTROL MODULE (EGS)	rear RH side of engine compartment in E-Box		
A9008	CRUISE CONTROL INTERFACE	near steering column		

09/98

7000.0-0

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A19007	THERMAL OIL LEVEL SENSOR (TOENS) CONTROL MODULE	behind glove box		
B1	RIGHT FRONT SPEED SENSOR – ABS ...	on RH front wheel, above brake caliper		
B2	LEFT FRONT SPEED SENSOR – ABS	on LH front wheel, above brake caliper	12-3	
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		
B6y ...	FUEL SENSOR	in fuel tank		
B8y ...	PRESSURE SWITCH	front RH side of engine compartment		
B9	INTERMEDIATE PRESSURE SWITCH	front RH side of engine compartment		
B10 ..	VEHICLE SPEED SENSOR	on differential	15-2	
B14 ..	EVAPORATOR TEMPERATURE SENSOR ...	RH side of LH footwell	21-2	
B16 ..	LEFT FRONT BRAKE PAD SENSOR	on LH front wheel, above brake caliper	12-3	
B17 ..	RIGHT REAR BRAKE PAD SENSOR	behind RH rear wheel		
B18 ..	BRAKE FLUID LEVEL SWITCH	rear LH side of engine compartment	09-1	
B21 ..	ON-BOARD COMPUTER TEMPERATURE SENSOR	in RH front bumper	11-3	
B59 ..	OIL TEMPERATURE GAUGE	center console		
B65 ..	FUEL TANK PRESSURE SENSOR	under rear storage compartment	07-2	
B78 ..	DRIVER'S SIDE IMPACT SENSOR	under LH front seat	35-3	
B79 ..	PASSENGER'S SIDE IMPACT SENSOR	under RH front seat	35-1	
B211 .	VOLTMETER	center console		
B6203	CRANKSHAFT POSITION/RPM SENSOR ...	rear LH side of engine compartment (M VERSIONS)	32-3	

09/98

7000.0-1

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B6203	CRANKSHAFT POSITION/RPM SENSOR . . .	front of engine (Z3 VERSIONS)		
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	front of engine	31-3	
B6205	INTAKE AIR TEMPERATURE SENSOR	front LH side of engine compartment (M VERSIONS)	34-1	
B6205	INTAKE AIR TEMPERATURE SENSOR	rear LH side of engine compartment (Z3 VERSIONS)		
B6207	HOT FILM AIR MASS METER	LH side of engine compartment (M VERSIONS)	33-3	
B6207	HOT FILM AIR MASS METER	LH side of engine compartment (Z3 VERSIONS)		
B6209	HALL EFFECT CAMSHAFT SENSOR	front of engine		
B6214	CAMSHAFT POSITION SENSOR 1 (INLET) .	front of engine		
B6224	CAMSHAFT POSITION SENSOR 2 (OUT- LET)	front of engine		
B6231	OIL PRESSURE SWITCH	lower LH side of engine (M VERSIONS)	32-2	
B6231	OIL PRESSURE SWITCH	LH side of engine compartment (Z3 VERSIONS)		
B6232	ENGINE COOLANT TEMPERATURE SEN- SOR	front of engine		
B6236	ENGINE COOLANT TEMPERATURE SEN- SOR	front of engine		
B6238	OIL TEMPERATURE SENSOR	RH side of oil filter	32-2	
B6240	KNOCK SENSOR	LH side of engine (Z3 VERSIONS)		
B6240	KNOCK SENSOR	top front of engine (M VERSIONS)	33-2	
B6247	CHARCOAL FILTER SHUT-OFF VALVE . . .	under LH rear of car	12-1	
B6254	THERMAL OIL LEVEL SWITCH	LH side of engine		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B6256	DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)	rear of engine compartment	32-1	
B6279	THERMOSTAT, CHARACTERISTIC MAP COOLING	front of engine		
B9508	PRESSURE SWITCH	front RH side of engine compartment	30-2	
B62101	OXYGEN SENSOR I (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter		
B62102	OXYGEN SENSOR I (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
B62201	OXYGEN SENSOR II (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter		
B62202	OXYGEN SENSOR II (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
C101 .	CONTACT RING	top of steering column	36-3	
D100 .	DATA LINK CONNECTOR	rear RH side of engine compartment (M VERSIONS)	31-1	
D100 .	DATA LINK CONNECTOR	rear LH side of engine compartment (Z3 VERSIONS)		
D110 .	OBD II CONNECTOR	center console right	28-3	
E7	LEFT HEADLIGHT	front LH side of engine compartment		
E8	RIGHT HEADLIGHT	front RH side of engine compartment		
E9	REAR DEFOGGER I	hard top		
E11 ...	LEFT HIGH BEAM LIGHT	near front LH headlight	29-1	
E12 ...	RIGHT HIGH BEAM LIGHT	near front RH headlight		
E13 ...	LEFT LOW BEAM LIGHT	near front LH headlight	29-1	
E14 ...	RIGHT LOW BEAM LIGHT	near front RH headlight	29-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E15 ...	LEFT PARK LIGHT	near front LH headlight		
E16 ...	LEFT REAR LIGHT ASSEMBLY	LH side of body rear end		
E17 ...	RIGHT REAR LIGHT ASSEMBLY	RH side of body rear end	01-1	
E19 ...	RIGHT PARK LIGHT	near front RH headlight		
E21 ...	LEFT FRONT MARKER LIGHT	front of vehicle		
E22 ...	RIGHT FRONT MARKER LIGHT	front of vehicle		
E25 ...	FRONT ASHTRAY LIGHT	center console		
E26 ...	LEFT FOG LIGHT	under LH front bumper		
E27 ...	RIGHT FOG LIGHT	under RH front bumper	13-2	
E28 ...	FRONT CIGAR LIGHTER	center console		
E28a .	CIGAR LIGHTER CONNECTION	TYRE INFLATION SYSTEM		
E29 ...	FRONT CIGAR LIGHTER LIGHT	center console	22-3	
E32 ...	TRUNK COMPARTMENT LIGHT	in luggage compartment (ROADSTER)		
E32 ...	TRUNK COMPARTMENT LIGHT	in roof panel (COUPE)		
E34 ...	FRONT DOME LIGHT/MAP READING ASSEMBLY	in roof panel		
E43 ...	LEFT LICENSE PLATE LIGHT	underside of trunk lid, near license plate		
E44 ...	RIGHT LICENSE PLATE LIGHT	underside of trunk lid, near license plate		
E51 ...	LEFT WASHER JET HEATER	on underside of engine hood	37-1	
E52 ...	RIGHT WASHER JET HEATER	on underside of engine hood	37-1	
E56 ...	DRIVER'S SEATBACK HEATER	in top of LH backrest		
E57 ...	DRIVER'S SEAT HEATER	under LH front seat		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E58 ...	PASSENGER'S SEAT HEATER	underside of RH front seat		
E59 ...	PASSENGER'S SEATBACK HEATER	in top of RH backrest		
E82 ...	TRANSMISSION POSITION INDICATOR LIGHT	center console	22-1	
E96 ...	GEAR SHIFT LEVER INDICATOR	center console		
E99 ...	HARD TOP CONNECTOR 1	near LH rear wheel well		
E105 .	HEAT/A/C CONTROL PANEL ILLUMINATION	center of dash	21-3	
E106 .	HEAT/A/C CONTROL PANEL ILLUMINATION	center of dash	21-3	
E800 .	FRONT LEFT INTERIOR LIGHT	near interior rear view mirror		
F97 ...	FUSIBLE LINK	in RH side of luggage compartment	01-1	
G1 ...	BATTERY	in RH side of luggage compartment	01-1	
G5 ...	DRIVER'S AIR BAG GAS GENERATOR	behind steering wheel		
G6 ...	PASSENGER'S AIR BAG GAS GENERATOR	behind glove box above		
G12 ..	DRIVER'S SIDE PYROTECHNICAL BELT TENSIONER	in LH front seat belt buckle	36-2	
G13 ..	PASSENGER'S SIDE PYROTECHNICAL BELT TENSIONER	in RH front seat belt buckle	36-2	
G14 ..	LEFT SIDE AIR BAG GAS GENERATOR	LH front door	16-2	
G15 ..	RIGHT SIDE AIR BAG GAS GENERATOR ..	RH front door	35-2	
G6430	B+ JUMP START JUNCTION POINT	rear RH side of engine compartment	01-2	
G6509	GENERATOR	front LH side of engine compartment	02-3	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
G7512	B+ JUNCTION POINT	below LH side of dash		
H1w ..	ANTI-THEFT HORN (ALPINE)	rear LH side of engine compartment	09-1	
H2 ...	LEFT HORN	under LH front bumper		
H3 ...	RIGHT HORN	RH front of wheel well	13-2	
H4 ...	RIGHT FRONT TURN LIGHT	front of vehicle		
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		
H34 ..	HIGH LEVEL STOP LIGHT	on lift gate		
H45 ..	RIGHT REAR SPEAKER	in roof panel		
H46 ..	LEFT REAR SPEAKER	in roof panel		
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	in rear speaker box		
H53 ..	RIGHT REAR HIGH RANGE SPEAKER	in roof panel		
H54 ..	RIGHT FRONT MIDRANGE SPEAKER	in upper RH front door		
H54z .	REAR RIGHT MID-HIGH RANGE SPEAKER ER	in rear speaker box	07-3	
H55 ..	LEFT FRONT MIDRANGE SPEAKER	in upper LH front door		
H55z .	REAR LEFT MID-HIGH RANGE SPEAKER .	in rear speaker box	10-1	
H56 ..	LEFT REAR HIGH RANGE SPEAKER	in roof panel		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
H57	LEFT REAR LOW RANGE SPEAKER	in rear speaker box		
H58	LEFT FRONT LOW RANGE SPEAKER	in lower LH A-pillar		
H59	LEFT FRONT HIGH RANGE SPEAKER	in upper LH front door		
H500	REAR WOOFER	in rear speaker box		
K2	HORN RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K4	BLOWER RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K9	UNLOADER RELAY, TERMINAL 15	rear LH side of engine compartment in Power Distribution Box	09-3	
K16	HAZARD FLASHER RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K19	COMPRESSOR CONTROL RELAY	rear LH side of engine compartment in Power Distribution Box	09-3	
K21	NORMAL SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	09-3	
K22	HIGH SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	09-3	
K33a	AIR CONDITIONING RELAY, MOTRONIC	rear LH side of engine compartment in Power Distribution Box	09-2	
K46	HIGH BEAM LIGHT RELAY	footwell, driver's side	19-1	
K47	FRONT FOG LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K48	LOW BEAM LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	09-2	
K70	CENTRAL LOCKING TRUNK LID MOTOR RELAY (ZV)	rear LH side of engine compartment in Power Distribution Box	08-2	
K94	ENGINE CONTROL RELAY (ABS/ASC)	rear LH side of engine compartment in Power Distribution Box	09-3	
K95	VALVE RELAY (ABS/ASC)	rear LH side of engine compartment in Power Distribution Box	09-3	
K910	PASSENGER'S SEAT TILT ADJUST CUT-OFF RELAY	underside of RH front seat	11-1	
K911	PASSENGER'S SEAT LENGTH ADJUST CUT-OFF RELAY	underside of RH front seat	11-1	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
K920	DRIVER'S SEAT TILT ADJUST CUT-OFF RELAY	underside of LH front seat	10-2	
K921	DRIVER'S SEAT LENGTH ADJUST CUT-OFF RELAY	underside of LH front seat	10-2	
K6300	ENGINE CONTROL MODULE RELAY	rear RH side of engine compartment in E-Box (M VERSIONS)	00-1	
K6300	ENGINE CONTROL MODULE RELAY	rear RH side of engine compartment in E-Box (Z3 VERSIONS)		
K6304	SECONDARY AIR PUMP RELAY	rear RH side of engine compartment in E-Box (M VERSIONS)	00-1	
K6304	SECONDARY AIR PUMP RELAY	rear RH side of engine compartment in E-Box (Z3 VERSIONS)		
K6326	UNLOADER RELAY, TERMINAL 15	rear RH side of engine compartment in E-Box (M VERSIONS)	00-1	
K6326	UNLOADER RELAY, TERMINAL 15	rear RH side of engine compartment in E-Box (Z3 VERSIONS)		
K6301w	FUEL PUMP RELAY	below LH side of dash	19-1	
K6394	COMPRESSOR RELAY	TYRE INFLATION SYSTEM		
K18363	CONVERTIBLE TOP RELAY I (CLOSE)	in LH side of luggage compartment	25-3	
K18364	CONVERTIBLE TOP RELAY II (OPEN)	in LH side of luggage compartment	25-3	
M2	FUEL PUMP	in fuel tank		
M3	WIPER MOTOR	rear of engine compartment		
M4	WASHER PUMP	front RH side of engine compartment on washer fluid reservoir		
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	front RH side of engine compartment on washer fluid reservoir		
M9	AUXILIARY FAN MOTOR	behind front grille		
M12	DRIVER'S DOOR LOCK MOTOR	driver's door		
M13	PASSENGER'S DOOR LOCK MOTOR	passenger's door		
M17	TRUNK LOCK MOTOR	rear side of luggage compartment behind trim panel (ROADSTER)		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M17 ..	TRUNK LOCK MOTOR	in lift gate (COUPE)	37-2	
M21 ..	DRIVER'S WINDOW MOTOR	in driver's door	17-2	
M23 ..	PASSENGER'S WINDOW MOTOR	in passenger's door	18-3	
M24y ..	TILT SUNROOF MOTOR	in roof panel		
M25 ..	CRUISE CONTROL ACTUATOR (TEMPO- MAT)	rear LH side of engine compartment	08-3	
M30 ..	BLOWER MOTOR	rear of engine compartment		
M51 ..	DRIVER'S SEAT MOVEMENT MOTOR	under LH front seat	25-1	
M51 ..	DRIVER'S SEAT MOVEMENT MOTOR	under LH front seat (WITH SPORT SEAT)	10-3	
M52 ..	DRIVER'S SEAT HEIGHT MOTOR	under LH front seat	25-1	
M52 ..	DRIVER'S SEAT HEIGHT MOTOR	under LH front seat (WITH SPORT SEAT)	10-3	
M59 ..	PASSENGER'S SEAT HEIGHT MOTOR	under RH front seat	24-1	
M60 ..	PASSENGER'S SEAT MOVEMENT MOTOR	under RH front seat	24-1	
M93 ..	AUXILIARY THROTTLE POSITION MOTOR (ADS)	front of engine	08-1	
M101 ..	CONVERTIBLE TOP MOTOR	in LH side of luggage compartment	25-3	
M111 ..	FRESH AIR RECIRCULATION MOTOR	RH side of LH footwell	21-2	
M805 ..	ELECTRICAL COMPRESSOR	TYRE INFLATION SYSTEM		
M6506 ..	E-BOX FAN	in E-Box		
M6510 ..	STARTER	rear LH side of engine compartment	02-2	
N5 ...	ANALOG CLOCK	center console		
N8 ...	ANTENNA AMPLIFIER AM/FM	in LH side of luggage compartment behind trim panel (ROADSTER)		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
N8 ...	ANTENNA AMPLIFIER AM/FM	in roof panel (COUPE)	37-3	
N9 ...	RADIO	center console		
N12w .	ANTI-THEFT CONTROL MODULE (AL- PINE)	behind glove box		
N17 ..	CRASH CONTROL MODULE	footwell, driver's side	19-1	
N22 ..	CD CHANGER	in RH side of luggage compartment		
P90 ...	FRONT POWER DISTRIBUTION BOX	rear LH side of engine compartment		
P95 ...	AUXILIARY FUSE BOX	below LH side of dash		
P97 ...	AUXILIARY FUSE BOX	below LH side of dash	19-1	
P98 ...	FUSE HOLDER IN E-BOX	rear RH side of engine compartment in E-Box		
P99 ...	FUSE HOLDER	in RH side of luggage compartment		
R11 ..	BLOWER RESISTORS	behind center of dashboard		
R31 ..	AUXILIARY THROTTLE POSITION SENSOR	front of engine	33-3	
R6252	THROTTLE POSITION SENSOR	front of engine	33-3	
R6385	THROTTLE POSITION SENSOR/CRUISE CONTROL ACTUATOR	top LH side of engine		
S2	IGNITION SWITCH	LH side of dash		
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	center console	22-1	
S4	HORN SWITCH	on steering wheel		
S5	WIPER/WASHER SWITCH	LH side of dash RH side of steering column above		
S6	ASC SWITCH	center console		
S7	COMBINATION SWITCH	LH side of dash LH side of steering column above		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S8	LIGHT SWITCH	LH side of dash		
S10 . . .	FOG LIGHT SWITCH	LH side of dash		
S13 . . .	PASSENGER'S DOOR JAMB SWITCH	RH B-pillar	26-1	
S14 . . .	DRIVER'S DOOR JAMB SWITCH	LH B-pillar	27-1	
S17 . . .	MIRROR CONTROL SWITCH	in upper LH front door		
S18 . . .	HAZARD SWITCH	center console bottom		
S20w .	RADIO ANTI-THEFT SWITCH	center console (radio and console removed)	36-1	
S21w .	ENGINE HOOD SWITCH	near LH headlight assembly	29-1	
S28 . . .	CRUISE CONTROL SWITCH	LH side of dash RH side of steering column above		
S30 . . .	BRAKE LIGHT SWITCH	LH footwell	20-1	
S31 . . .	PARK BRAKE SWITCH	center console on rear of park brake lever		
S32 . . .	CLUTCH SWITCH	LH footwell	20-1	
S36 . . .	TEMPERATURE SWITCH	front RH side of engine compartment	30-1	
S38y .	TILT SUNROOF SWITCH	in roof panel		
S47 . . .	DRIVER'S DOOR LOCK SWITCH	in driver's door	17-1	
S49 . . .	PASSENGER'S DOOR LOCK SWITCH	in passenger's door		
S51 . . .	DRIVER'S SEAT, SEAT CONTROL SWITCH .	LH front seat		
S53 . . .	DRIVER'S SEAT, SEAT HEATER SWITCH . . .	center console	23-1	
S54 . . .	PASSENGER'S SEAT, SEAT HEATER SWITCH	center console	23-1	
S56 . . .	PASSENGER'S SEAT, SEAT CONTROL SWITCH	RH front seat		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S58 . . .	DRIVER'S SEAT BELT SWITCH	in LH front seat belt buckle		
S59 . . .	PASSENGER'S SEAT BELT SWITCH	in RH front seat belt buckle		
S75 . . .	BLOWER SWITCH	center of dash	21-3	
S76 . . .	REAR WINDOW DEFOGGER SWITCH	center console		
S117 .	TRUNK LID LOCKING SWITCH	in lift gate		
S126y	DRIVER'S POWER WINDOW SWITCH	center console near gearshift lever		
S127y	PASSENGER'S POWER WINDOW SWITCH	center console near gearshift lever		
S143 .	CONVERTIBLE TOP ACTUATING SWITCH .	center console		
S164 .	CONVERTIBLE TOP END-POSITION MI- CRO SWITCH	at convertible top linkage	17-3	
S198 .	JET HEATER THERMOSWITCH	on front RH wheel well		
S220 .	AIR CONDITIONING/RECIRCULATING SWITCH ASSEMBLY	center console	00-3	
S221 .	EVAPORATOR CONTROLLER	RH side of LH footwell	21-2	
S232 .	COMPRESSOR MAIN SWITCH	TYRE INFLATION SYSTEM		
S235 .	STARTER IMMOBILIZATION SWITCH	LH footwell		
S408 .	INTERIOR LIGHT SWITCH	near interior rear view mirror	28-2	
S531 .	TEMPERATURE WHEEL SWITCH	center of dash	21-3	
S559 .	PASSENGER'S AIR BAG CUT-OFF SWITCH	center console		
S826 .	LUGGAGE COMPARTMENT LIGHT SWITCH	underside of trunk lid		
S910 .	DRIVER'S SEAT LIMIT SWITCH	underside of LH front seat		

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S911	PASSENGER'S SEAT LIMIT SWITCH	underside of RH front seat		
S8503	PROGRAM SWITCH	center console	22-1	
S8507	KICK-DOWN SWITCH	behind gas pedal	19-3	
S8511	REVERSING LIGHT SWITCH	LH side of transmission	14-2	
T6151	CYL. 1 IGNITION COIL	RH side of engine compartment		
T6152	CYL. 2 IGNITION COIL	RH side of engine compartment		
T6153	CYL. 3 IGNITION COIL	RH side of engine compartment		
T6154	CYL. 4 IGNITION COIL	RH side of engine compartment		
T6155	CYL. 5 IGNITION COIL	RH side of engine compartment		
T6156	CYL. 6 IGNITION COIL	RH side of engine compartment		
X0	B+ JUNCTION POINT	rear LH side of engine compartment in Power Distribution Box	02-1	
X2	BATTERY B+ START POINT	rear LH side of engine compartment in Power Distribution Box (M VERSIONS)		
X2	BATTERY B+ START POINT	in RH side of luggage compartment (Z3 VERSIONS)		
X4	GROUND	LH side of engine compartment		
X8	CABLE SOCKET B+	in RH side of luggage compartment		
X9	CABLE SOCKET B+	below LH side of dash		
X16	(26 PINS, NATURAL)	LH side of dash rear side of instrument cluster, A2w	20-2	00-3
X17	(26 PINS, BLUE)	LH side of dash rear side of instrument cluster, A2w	20-2	00-3
X20	(25 PINS, BLACK)	rear LH side of engine compartment	08-1	04-4
X22	(26 PINS, BLUE)	behind glove box	00-2	00-3
X29	(1 PIN, ---)	LH side of steering column		
X32	(12 PINS, NATURAL)	on steering column	19-2	02-4

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X33 ...	(12 PINS, BLACK)	on steering column	19-2	02-4
X35 ...	(4 PINS, BLACK)	RH side of LH footwell	21-1	03-1
X44 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X45 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X50 ...	(9 PINS, BLACK)	Power Distribution Box, rear LH side of engine compartment		03-4
X51 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X52 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X53 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X56 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X58 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X63 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X64 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-4
X65 ...	(9 PINS, BLACK)	below LH side of dash		03-4
X70 ...	(8 PINS, BLACK)	rear LH side of engine compartment	08-3	06-2
X72 ...	(6 PINS, NATURAL)	on steering column	19-2	05-3
X74 ...	(50 PINS, NATURAL)	below center console	22-2	11-2
X78 ...	(4 PINS, BLACK)	on steering column	20-1	03-1
X82 ...	(3 PINS, BLACK)	under radiator	13-1	05-5
X85 ...	(3 PINS, BLACK)	rear LH side of engine compartment	14-3	05-5
X87 ...	(3 PINS, BLACK)	RH top of radiator	30-1	02-5
X105 .	(2 PINS, GRAY)	on underside of engine hood	37-1	
X106 .	(2 PINS, GRAY)	on underside of engine hood	37-1	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X107	(2 PINS, GRAY)	front RH side of engine compartment on washer fluid reservoir		
X111	(2 PINS, BLACK)	rear LH side of engine compartment	09-1	
X113	(3 PINS, GRAY)	behind RH front wheel	13-3	06-3
X114	(3 PINS, GRAY)	behind LH front wheel	12-2	06-3
X118	(2 PINS, BLACK)	behind LH front wheel	12-2	
X121	(2 PINS, WHITE)	LH footwell	20-1	
X123	(2 PINS, GRAY)	front RH side of engine compartment on washer fluid reservoir		
X127	(4 PINS, BLACK)	front RH side of engine compartment	30-2	05-4
X128	(3 PINS, BLACK)	front LH side of engine compartment		02-5
X130	(2 PINS, GRAY)	near front LH headlight	29-2	
X131	(2 PINS, BLACK)	near front LH headlight	29-2	
X132	(2 PINS, BLACK)	on front LH wheel well		
X133	(2 PINS, BLACK)	on front LH wheel well	13-2	
X134	(2 PINS, BLACK)	near front RH headlight	29-3	
X135	(2 PINS, GRAY)	near front RH headlight	29-3	
X137	(3 PINS, BLACK)	front RH side of engine compartment	30-3	02-5
X142	(2 PINS, GRAY)	under LH rear of car	16-1	
X143	(2 PINS, GRAY)	under RH rear of car	15-3	
X163	(3 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir near RH headlight assembly	30-2	05-5
X165	GROUND	front RH side of engine compartment	04-2	
X166	GROUND	front LH side of engine compartment	05-1	

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X170	GROUND	behind LH footwell speaker grille	03-2	
X256	(26 PINS, BLACK)	RH A-pillar	18-1	03-5
X257	(26 PINS, BLACK)	LH A-pillar	16-3	03-5
X271	(12 PINS, BLACK)	LH side of dash rear side of instrument cluster, A2w	20-2	01-3
X275	(4 PINS, NATURAL)	under LH front seat	25-2	03-1
X275	(4 PINS, NATURAL)	under LH front seat (WITH SPORT SEAT)	10-3	03-1
X279	(4 PINS, NATURAL)	under RH front seat	24-2	03-1
X279	(4 PINS, NATURAL)	under RH front seat (WITH SPORT SEAT)	11-2	03-1
X285	(15 PINS, BLUE)	behind glove box		05-1
X295	(8 PINS, BLACK)	on steering column	19-2	03-3
X311	(3 PINS, BLACK)	in luggage compartment lid (ROADSTER)	28-1	01-1
X311	(3 PINS, BLACK)	in lift gate (COUPE)	37-2	01-1
X315	(2 PINS, BLACK)	in luggage compartment lid (ROADSTER)	28-1	
X315	(2 PINS, BLACK)	in lift gate (COUPE)	37-2	
X316	(4 PINS, VIOLET)	center console near gearshift lever		07-1
X318	(8 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	01-1	02-1
X319	(8 PINS, BLACK)	in LH side of luggage compartment behind trim panel		02-1
X322	(6 PINS, BLACK)	footwell, driver's side	19-1	03-6
X324	(4 PINS, VIOLET)	center console near gearshift lever		07-1
X333	(4 PINS, NATURAL)	rear of engine compartment below center of cowl		03-1
X336	(3 PINS, BLACK)	in upper RH A-pillar		01-1
X351	(3 PINS, BLACK)	RH B-pillar	26-1	01-1

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1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X352	(3 PINS, BLACK)	LH B-pillar	27-1	01-1
X357	(2 PINS, WHITE)	near interior rear view mirror	28-2	
X371	(3 PINS, BLACK)	near front LH headlight	29-1	02-5
X372	(2 PINS, GRAY)	rear LH side of engine compartment	09-1	
X379	(1 PIN, NATURAL)	HARD TOP CONNECTOR 1		
X380	(1 PIN, NATURAL)	HARD TOP CONNECTOR 1		
X383	(2 PINS, BLACK)	on differential	15-2	
X389	(2 PINS, BLACK)	LEFT FRONT AUXILIARY TURN LIGHT		
X390	(2 PINS, BLACK)	RIGHT FRONT AUXILIARY TURN LIGHT		
X400	(8 PINS, BLACK)	center console		02-1
X413	(3 PINS, BLACK)	HIGH LEVEL STOP LIGHT		01-1
X423	(1 PIN, ---)	below center console on rear of park brake lever		
X424	(1 PIN, ---)	in LH side of luggage compartment behind trim panel (ROADSTER)		
X424	(1 PIN, ---)	in roof panel (COUPE)	37-3	
X494	GROUND	below center console	03-1	
X503	(12 PINS, BLACK)	LH side of dash	20-3	07-2
X504	(4 PINS, NATURAL)	LH side of dash	20-3	03-1
X511	(8 PINS, BLACK)	center console	22-1	02-1
X516	(5 PINS, BLACK)	center console		02-6
X521	(6 PINS, BLUE)	center console		04-5
X522	(3 PINS, NATURAL)	RH side of LH footwell		04-3
X531	(1 PIN, NATURAL)	center console	22-3	

09/98

7000.0-17

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X532	(2 PINS, BLACK)	center console	22-3	
X537	(3 PINS, BLACK)	REAR LEFT MID-HIGH RANGE SPEAKER	10-1	01-1
X538	(3 PINS, BLACK)	REAR RIGHT MID-HIGH RANGE SPEAKER	07-3	01-1
X539	(2 PINS, BLACK)	center console (radio and console removed)	36-1	
X605	(12 PINS, BLACK)	in LH side of luggage compartment behind trim panel	27-3	01-5
X606	(26 PINS, BLACK)	in LH side of luggage compartment behind trim panel	27-3	00-3
X623	(4 PINS, BLACK)	in driver's door	17-2	07-1
X624	(4 PINS, BLACK)	in passenger's door	18-3	07-1
X625	(6 PINS, BLACK)	in driver's door	17-2	08-2
X641	(6 PINS, BLACK)	in passenger's door	18-2	07-4
X643	(6 PINS, WHITE)	in roof panel		04-6
X651	(6 PINS, VIOLET)	center console	23-1	04-5
X658	(6 PINS, VIOLET)	center console	23-1	04-5
X660	(6 PINS, BLACK)	LH front door behind door panel		07-4
X693	(1 PIN, NATURAL)	TYRE INFLATION SYSTEM		
X700	(1 PIN, ---)	behind RH footwell speaker grille	23-3	
X701	(1 PIN, ---)	behind LH footwell speaker grille		
X709	(2 PINS, BLACK)	underside of trunk lid, near license plate		
X710	(2 PINS, BLACK)	underside of trunk lid, near license plate		
X711	(2 PINS, BLACK)	in luggage compartment lid	28-1	
X712	(1 PIN, BLACK)	in luggage compartment (ROADSTER)		
X712	(4 PINS, NATURAL)	in roof panel (COUPE)	37-3	

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7000.0-18

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X713	(2 PINS, BLACK)	under RH rear of car	15-3	
X726	(2 PINS, NATURAL)	under LH front seat	25-1	
X726	(2 PINS, NATURAL)	under LH front seat (WITH SPORT SEAT)	10-3	
X728	(2 PINS, BLACK)	under LH front seat	25-1	
X728	(2 PINS, BLACK)	under LH front seat (WITH SPORT SEAT)	10-3	
X733	(4 PINS, BLACK)	under LH front seat	25-2	03-1
X733	(4 PINS, BLACK)	under LH front seat (WITH SPORT SEAT)	10-3	03-1
X734	(2 PINS, NATURAL)	under RH front seat	24-1	
X734	(2 PINS, NATURAL)	under RH front seat (WITH SPORT SEAT)	11-1	
X737	(2 PINS, BLACK)	under RH front seat	24-1	
X737	(2 PINS, BLACK)	under RH front seat (WITH SPORT SEAT)	11-2	
X740	(4 PINS, BLACK)	under RH front seat	24-2	03-1
X740	(4 PINS, BLACK)	under RH front seat (WITH SPORT SEAT)	11-2	
X742	(2 PINS, YELLOW)	in passenger's door		
X744	(4 PINS, GRAY)	in passenger's door	18-3	05-4
X746	(3 PINS, YELLOW)	in passenger's door	18-3	10-5
X747	(2 PINS, YELLOW)	in driver's door	17-1	
X749	(2 PINS, GRAY)	in driver's door	17-2	
X753	(3 PINS, YELLOW)	in driver's door	17-2	10-5
X760	(3 PINS, BLACK)	RIGHT REAR HIGH RANGE SPEAKER		01-1
X761	(1 PIN, BLACK)	RIGHT REAR SPEAKER		
X762	(3 PINS, BLACK)	LEFT REAR HIGH RANGE SPEAKER		01-1

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7000.0-19

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X763	(1 PIN, BLACK)	LEFT REAR SPEAKER		01-1
X766	(2 PINS, BLACK)	LH front of vehicle		
X767	(2 PINS, BLACK)	RH front of vehicle		
X768	(2 PINS, BLACK)	on front LH wheel well		
X769	(2 PINS, BLACK)	RH front of wheel well	13-2	
X770	(2 PINS, YELLOW)	in RH front bumper	11-3	
X771	(2 PINS, NATURAL)	RH side of LH footwell	21-2	
X778	(4 PINS, BLACK)	under LH front seat		07-1
X778	(4 PINS, BLACK)	under LH front seat (WITH SPORT SEAT)	10-2	07-1
X782	(3 PINS, ORANGE)	behind glove box above	00-2	07-5
X783	(3 PINS, ORANGE)	underside of steering column	36-3	07-5
X898	(8 PINS, BLACK)	under rear storage compartment	26-2	08-3
X904	(4 PINS, BLACK)	RH side of LH footwell		03-1
X905	(7 PINS, BLACK)	center of dash	21-3	09-3
X1014	(1 PIN, BLACK)	center console	22-3	
X1098	(3 PINS, BLACK)	LH side of dash	20-3	01-1
X1116	GROUND	in LH side of luggage compartment	06-3	
X1148	(2 PINS, BLACK)	on front RH wheel well		
X1155	(2 PINS, BLACK)	center console		
X1166	GROUND	behind glove box	04-1	
X1170	(25 PINS, GRAY)	front LH side of engine compartment		09-4
X1175	(83 PINS, NATURAL)	behind glove box	00-2	08-4

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7000.0-20

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1178	(2 PINS, WHITE)	center console	27-2	
X1193	(3 PINS, BLACK)	center console	22-1	01-1
X1213	(2 PINS, BLACK)	center console		
X1255	(4 PINS, BLACK)	TYRE INFLATION SYSTEM		03-1
X1265	(1 PIN, NATURAL)	HARD TOP CONNECTOR 1		
X1266	(1 PIN, NATURAL)	HARD TOP CONNECTOR 1		
X1376	(9 PINS, BLACK)	front Power Distribution Box rear LH side of engine compartment		03-4
X1380	(1 PIN, ---)	behind RH footwell speaker grille	23-3	
X1381	(1 PIN, ---)	behind LH footwell speaker grille		
X1439	(2 PINS, BLACK)	center console		
X1441	GROUND	below center console	03-3	
X1517	(6 PINS, BLACK)	RH side of LH footwell	21-2	09-2
X1588	(2 PINS, BLACK)	below LH side of dash	19-1	
X1715	(4 PINS, NATURAL)	in rear left speaker box	26-3	03-1
X1764	(3 PINS, BLACK)	RH side of steering column		01-1
X1775	(3 PINS, NATURAL)	in lift gate		10-5
X1805	(15 PINS, NATURAL)	LH side of steering column		05-1
X1883	(2 PINS, YELLOW)	LH front door	16-2	
X1884	(2 PINS, YELLOW)	RH front door	35-2	
X1885	(3 PINS, BLACK)	under LH front seat	35-3	10-1
X1886	(3 PINS, BLACK)	under RH front seat	35-1	10-1
X1976	CABLE SOCKET B+	below LH side of dash		

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7000.0-21

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1977	CABLE SOCKET B+	below LH side of dash		
X1978	CABLE SOCKET B+	below LH side of dash		
X1979	CABLE SOCKET B+	below LH side of dash		
X1980	CABLE SOCKET B+	below LH side of dash		
X1981	CABLE SOCKET B+	below LH side of dash		
X1982	CABLE SOCKET B+	below LH side of dash		
X2213	(15 PINS, NATURAL)	LH side of engine compartment	08-1	05-1
X2227	(4 PINS, BLUE)	center console		07-1
X3040	(2 PINS, BLACK)	TYRE INFLATION SYSTEM		
X3158	(1 PIN, NATURAL)	TYRE INFLATION SYSTEM		
X5115	(2 PINS, BLACK)	center console (radio and console removed)	36-1	
X6000	(88 PINS, NATURAL)	rear RH side of engine compartment in E-Box	00-1	00-1
X6002	(20 PINS, BLACK)	rear RH side of engine compartment (M VERSIONS)		04-1
X6002	(20 PINS, BLACK)	rear LH side of engine compartment (Z3 VERSIONS)		04-1
X6011	(2 PINS, BLUE)	rear RH side of engine compartment in E-Box		
X6021	(4 PINS, BLACK)	rear RH side of engine compartment in E-Box		03-1
X6031	(12 PINS, BLACK)	rear LH side of engine compartment (M VERSIONS)	08-1	01-6
X6031	(18 PINS, BLACK)	rear RH side of engine compartment in E-Box (Z3 VERSIONS)		07-3
X6053	(4 PINS, NATURAL)	rear RH side of engine compartment in E-Box		03-1
X6054	(2 PINS, NATURAL)	rear RH side of engine compartment in E-Box		
X6101	(2 PINS, BLACK)	top center of engine		
X6102	(2 PINS, BLACK)	top center of engine		

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7000.0-22

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6103	(2 PINS, BLACK)	top center of engine		
X6104	(2 PINS, BLACK)	top center of engine		
X6105	(2 PINS, BLACK)	top center of engine		
X6106	(2 PINS, BLACK)	top center of engine		
X6120	(2 PINS, BLACK)	LH side of engine compartment (Z3 VERSIONS)		
X6120	(2 PINS, BLACK)	LH side of engine compartment (M VERSIONS)	34-2	
X6130	(3 PINS, BLACK)	front of engine		10-2
X6133	(2 PINS, BLACK)	rear RH side of engine compartment	31-2	
X6139	(3 PINS, BLACK)	under LH center of car		05-5
X6150	(10 PINS, BLACK)	rear RH side of engine compartment	31-1	10-1
X6151	(3 PINS, BLACK)	top RH side of engine		09-5
X6152	(3 PINS, BLACK)	top RH side of engine		09-5
X6153	(3 PINS, BLACK)	top RH side of engine		09-5
X6154	(3 PINS, BLACK)	top RH side of engine		09-5
X6155	(3 PINS, BLACK)	top RH side of engine		09-5
X6156	(3 PINS, BLACK)	top RH side of engine		09-5
X6163	(2 PINS, BLACK)	LH side of engine compartment (M VERSIONS)	31-3	
X6163	(2 PINS, BLACK)	LH side of engine compartment (Z3 VERSIONS)		
X6167	(2 PINS, BLACK)	LH side of engine compartment		
X6203	(3 PINS, BLACK)	front of engine below intake manifold (M VERSIONS)	33-1	10-2
X6203	(3 PINS, BLACK)	front of engine (Z3 VERSIONS)		06-4
X6204	(3 PINS, BLACK)	front of engine below intake manifold	33-1	10-2

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7000.0-23

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6205	(2 PINS, BLACK)	front LH side of engine compartment (Z3 VERSIONS)		
X6205	(2 PINS, BLACK)	front LH side of engine compartment (M VERSIONS)	34-1	
X6207	(4 PINS, BLACK)	LH side of engine compartment (M VERSIONS)	33-3	10-4
X6207	(3 PINS, BLACK)	LH side of engine compartment (Z3 VERSIONS)		10-2
X6214	(3 PINS, BLACK)	front of engine		10-2
X6224	(3 PINS, BLACK)	front of engine		06-4
X6231	(2 PINS, BLACK)	LH side of engine compartment (Z3 VERSIONS)		
X6231	(2 PINS, BLACK)	front of engine (M VERSIONS)	32-2	
X6236	(2 PINS, BLACK)	LH side of engine		
X6238	(2 PINS, BLACK)	RH side of oil filter	32-2	
X6240	(4 PINS, BLACK)	LH side of engine near starter (Z3 VERSIONS)		06-1
X6240	(4 PINS, BLACK)	LH side of engine (M VERSIONS)	33-1	06-1
X6247	(2 PINS, BLACK)	under LH rear of car	12-1	
X6252	(3 PINS, BLACK)	front of engine	33-3	10-2
X6254	(3 PINS, BLACK)	LH side of engine		06-4
X6256	(4 PINS, BLACK)	rear of engine compartment		10-3
X6275	(2 PINS, BLACK)	top center of engine (M VERSIONS)	31-3	
X6275	(2 PINS, BLACK)	top center of engine (Z3 VERSIONS)		
X6276	(2 PINS, BLACK)	front of engine		
X6279	(2 PINS, BLACK)	front of engine		
X6300	(9 PINS, BLACK)	rear RH side of engine compartment in E-Box		03-4
X6301	(9 PINS, BLACK)	below LH side of dash		03-4

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7000.0-24

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6304	(9 PINS, BLACK)	rear RH side of engine compartment in E-Box		03-4
X6326	(9 PINS, BLACK)	rear RH side of engine compartment in E-Box		03-4
X6385	(10 PINS, BLACK)	top LH side of engine		05-2
X6394	(9 PINS, BLACK)	TYRE INFLATION SYSTEM		03-4
X6430	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6431	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6432	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6454	GROUND	rear RH side of engine compartment (Z3 VERSIONS)		
X6454	GROUND	rear RH side of engine compartment (M VERSIONS)	04-2	
X6455	GROUND	rear RH side of engine compartment (M VERSIONS)	04-2	
X6455	GROUND	rear RH side of engine compartment (Z3 VERSIONS)		
X6456	GROUND	rear RH side of engine compartment	06-1	
X6500	(6 PINS, BLACK)	under rear storage compartment	07-1	06-5
X6501	(3 PINS, BLACK)	under rear storage compartment	07-1	02-5
X6506	(2 PINS, BLACK)	in E-Box		
X6509	CABLE SOCKET ALTERNATOR B+	front LH side of engine compartment	02-3	
X6510	CABLE SOCKET STARTER, TERMINAL 50 .	rear LH side of engine compartment at starter	02-2	
X6511	CABLE SOCKET STARTER, TERMINAL 30h	rear LH side of engine compartment at starter		
X6512	CABLE SOCKET STARTER, TERMINAL 30 .	rear LH side of engine compartment at starter	02-2	
X6524	(3 PINS, BLACK)	front LH side of engine compartment		10-2

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7000.0-25

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6550	(2 PINS, BLACK)	under LH center of car	34-3	
X7509	CABLE SOCKET ALTERNATOR, TERMINAL D+	front LH side of engine compartment	02-3	
X8500	(88 PINS, NATURAL)	rear RH side of engine compartment in E-Box		00-1
X8503	(6 PINS, VIOLET)	center console	22-1	04-5
X8505	(16 PINS, BLACK)	on RH side of transmission	15-1	11-4
X8507	(1 PIN, BLACK)	behind gas pedal	19-3	
X8511	(2 PINS, BLACK)	LH side of transmission	14-2	
X8516	(2 PINS, BLACK)	LH side of transmission		
X8533	(2 PINS, BLACK)	LH side of engine compartment	08-1	
X9023	(3 PINS, BLACK)	in lift gate		01-1
X9001	(2 PINS, BLACK)	center console		
X9002	(2 PINS, BLACK)	center console		
X9003	(2 PINS, BLACK)	center console		
X9170	CABLE SOCKET GROUND	LH side of engine compartment		
X9336	(4 PINS, NATURAL)	in upper RH A-pillar		03-1
X9633	GROUND	behind LH footwell speaker grille	03-2	
X9990	(3 PINS, BLACK)	underside of LH front seat		11-1
X9991	(10 PINS, BLACK)	underside of LH front seat	10-2	11-5
X9994	(3 PINS, BLACK)	underside of RH front seat		11-1
X9995	(10 PINS, BLACK)	underside of RH front seat	11-1	11-5
X9997	(2 PINS, ORANGE)	behind steering wheel		

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7000.0-26

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10010	GROUND	behind glove box	04-1	
X10013	(2 PINS, NATURAL)	behind steering wheel		
X10054	(8 PINS, BLACK)	RH side of LH footwell	21-1	02-1
X10059	(3 PINS, BLACK)	center console		01-2
X10065	(2 PINS, WHITE)	LH footwell	14-1	
X10088	(2 PINS, BLACK)	front RH side of engine compartment	30-3	
X10170	(3 PINS, NATURAL)	near steering column		01-1
X10182	(18 PINS, BLACK)	behind glove box		07-3
X10214	(3 PINS, VIOLET)	under LH front seat	10-2	10-5
X10215	(3 PINS, VIOLET)	under RH front seat	11-1	10-5
X10216	(3 PINS, YELLOW)	in LH front seat belt buckle	36-2	07-5
X10217	(3 PINS, YELLOW)	in RH front seat belt buckle	36-2	07-5
X10218	(3 PINS, NATURAL)	under RH front seat	24-2	01-1
X10218	(3 PINS, NATURAL)	under RH front seat (WITH SPORT SEAT)	11-2	01-1
X10239	(3 PINS, BLACK)	front of engine	33-3	10-2
X10241	(3 PINS, BLACK)	front RH side of engine compartment	30-2	05-5
X10244	(1 PIN, BLACK)	behind glove box	24-3	
X10245	(12 PINS, BLACK)	center console	00-3	01-3
X10246	(12 PINS, BLACK)	in rear left speaker box	26-3	01-3
X10262	(9 PINS, BLACK)	below LH side of dash		03-4
X10263	(6 PINS, BLACK)	center console		04-5
X10266	(6 PINS, BLACK)	in RH forward side of luggage compartment	27-3	04-5

09/98

7000.0-27

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10285	(2 PINS, BLACK)	in lift gate		
X10299	(4 PINS, BLACK)	RH rear wheel well	17-3	03-1
X10422	CABLE SOCKET B+	below LH side of dash		
X11104	(1 PIN, ---)	near interior rear view mirror	28-2	
X11105	(1 PIN, ---)	near interior rear view mirror	28-2	
X11106	(1 PIN, ---)	near interior rear view mirror	28-2	
X11209	(4 PINS, BLACK)	near RH rear wheel well	17-3	03-1
X11277	(2 PINS, BLACK)	in lift gate		
X11287	CONNECTORS SOLDERED UP	center of dash		
X11402	(3 PINS, VIOLET)	in luggage compartment lid		01-1
X11403	(3 PINS, VIOLET)	in luggage compartment lid		01-1
X13004	GROUND	behind glove box	04-1	
X13006	GROUND	in LH side of luggage compartment	05-3	
X13016	GROUND	in LH side of luggage compartment	05-2	
X13017	(2 PINS, BLUE)	hard top		
X13025	(12 PINS, BLACK)	behind glove box	24-3	02-4
X13032	GROUND	under rear storage compartment	06-2	
X13045	(6 PINS, NATURAL)	center console		04-5
X13057	(2 PINS, BLACK)	in lift gate	37-2	
X13146	(8 PINS, BLACK)	in LH side of luggage compartment	25-3	02-1
X13233	(2 PINS, BLACK)	center of dash behind center console		
X13252	(15 PINS, BLACK)	behind glove box		05-1

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7000.0-28

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X13253	(26 PINS, VIOLET)	behind glove box		00-3
X13254	(26 PINS, GREEN)	behind glove box		00-3
X13268	(3 PINS, BLACK)	in lift gate	37-2	01-1
X13287	(1 PIN, WHITE)	center of dash behind center console		
X18080	(1 PIN, BLACK)	in LH side of luggage compartment		
X18126	(17 PINS, BLACK)	center console behind radio		02-2
X18170	GROUND	below center console	03-1	
X18180	(3 PINS, BLACK)	in RH rear side of luggage compartment		01-1
X18184	(1 PIN, BLACK)	RIGHT REAR SPEAKER		
X18189	(1 PIN, BLACK)	LEFT REAR SPEAKER		
X18190	(3 PINS, BLACK)	in driver's door	17-2	10-5
X18196	(10 PINS, BLACK)	LH A-pillar	16-3	02-3
X18198	(10 PINS, BLACK)	RH A-pillar	18-1	02-3
X18279	(2 PINS, GRAY)	in driver's door		
X18280	(2 PINS, GRAY)	in passenger's door		
X18333	(2 PINS, BLACK)	on instrument cluster		
X18349	(8 PINS, BLACK)	center console	00-3	08-3
X18350	(6 PINS, BLACK)	RH side of LH footwell	21-2	03-6
X18363	(9 PINS, BLACK)	in LH side of luggage compartment		03-4
X18364	(9 PINS, BLACK)	in LH side of luggage compartment		03-4
X18365	(3 PINS, BLACK)	rear RH side of engine compartment in E-Box		04-3
X18516	(3 PINS, BLACK)	in passenger's door	18-3	10-5

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7000.0-29

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X18518	(4 PINS, BLACK)	in RH front seat belt buckle	11-1	07-1
X18520	(10 PINS, BLACK)	center console RADIO		
X18521	(10 PINS, BLACK)	RH side of luggage compartment CD CHANGER		
X18766	(9 PINS, BLACK)	front Power Distribution Box rear LH side of engine compartment		03-4
X18767	(9 PINS, BLACK)	front Power Distribution Box rear LH side of engine compartment		03-4
X18983	(2 PINS, BLACK)	center of dash		
X18984	(2 PINS, BLACK)	center of dash	21-3	
X18994	(3 PINS, VIOLET)	LH footwell		01-1
X19007	(12 PINS, BLACK)	behind glove box		01-3
X19018	(2 PINS, BLACK)	behind glove box	23-2	
X19022	(3 PINS, BLACK)	under radiator	13-1	05-5
X19023	(2 PINS, BLACK)	below LH side of dash		
X19245	(8 PINS, BLACK)	center console		02-1
X19527	(16 PINS, BLACK)	center console right	28-3	08-1
X19528	(3 PINS, NATURAL)	under rear storage compartment	07-2	02-5
X19565	(6 PINS, NATURAL)	center console		11-3
X21111	(3 PINS, NATURAL)	center console		01-2
X23146	(2 PINS, BLACK)	in LH side of luggage compartment	25-3	
X62001	(9 PINS, BLACK)	rear RH side of engine compartment in E-Box		01-4
X62002	(24 PINS, BLACK)	rear RH side of engine compartment in E-Box		04-2
X62003	(52 PINS, BLACK)	rear RH side of engine compartment in E-Box		03-2
X62004	(40 PINS, BLACK)	rear RH side of engine compartment in E-Box		09-1

09/98

7000.0-30

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X62005	(9 PINS, BLACK)	rear RH side of engine compartment in E-Box		01-4
X62101	(4 PINS, BLACK)	on catalytic converter		06-1
X62102	(4 PINS, BLACK)	on catalytic converter		06-1
X62201	(4 PINS, BLACK)	on catalytic converter		06-1
X62202	(4 PINS, BLACK)	on catalytic converter		06-1
X64101	(2 PINS, BLACK)	rear RH side of engine compartment in E-Box		
X64102	(2 PINS, BLACK)	rear RH side of engine compartment in E-Box		
X64192	(2 PINS, BLACK)	rear RH side of engine compartment in E-Box		
X89977	(2 PINS, BLACK)	rear RH side of engine compartment in E-Box		
X91009	(2 PINS, BLACK)	under RH front seat	11-2	
Y1w	ABS HYDRAULIC UNIT	rear LH side of engine compartment	08-1	
Y2	AIR CONDITIONING COMPRESSOR	front RH side of engine compartment		
Y4z	WATER VALVE	rear LH side of engine compartment	14-3	
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	27-2	
Y6101	CYL. 1 FUEL INJECTION VALVE	on cylinder head		
Y6102	CYL. 2 FUEL INJECTION VALVE	on cylinder head		
Y6103	CYL. 3 FUEL INJECTION VALVE	on cylinder head		
Y6104	CYL. 4 FUEL INJECTION VALVE	on cylinder head		
Y6105	CYL. 5 FUEL INJECTION VALVE	on cylinder head		
Y6106	CYL. 6 FUEL INJECTION VALVE	on cylinder head		

09/98

7000.0-31

1999



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment (Z3 VERSIONS)		
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment (M VERSIONS)	34-2	
Y6130	IDLE SPEED CONTROL VALVE	front of engine		
Y6133	AIR PUMP	rear RH side of engine compartment	31-2	
Y6139	LEAKAGE DIAGNOSIS PUMP	under LH center of car		
Y6163	SECONDARY AIR PUMP VALVE	LH side of engine compartment (M VERSIONS)	33-2	
Y6163	SECONDARY AIR PUMP VALVE	LH side of engine compartment (Z3 VERSIONS)		
Y6167	VALVE, INDIVIDUAL CONTROL INTAKE SYSTEM	LH side of engine compartment		
Y6275	VARIABLE CAMSHAFT CONTROL VALVE 1	on cylinder head	31-3	
Y6275z	VARIABLE CAMSHAFT CONTROL VALVE 1 (INLET)	on cylinder head		
Y6276	VARIABLE CAMSHAFT CONTROL VALVE 2 (OUTLET)	on cylinder head		
Y6550	SOLENOID VALVE ("RUNNING LOSSES") ..	under LH center of car	34-3	
Y8521	TRANSMISSION VALVE UNIT	on RH side of transmission	15-1	

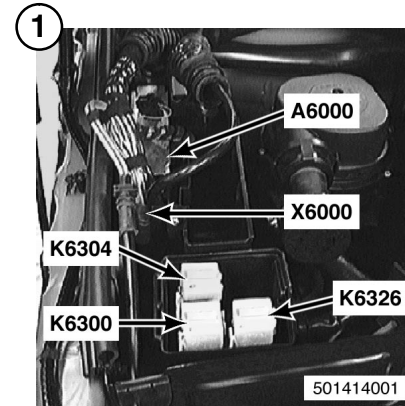
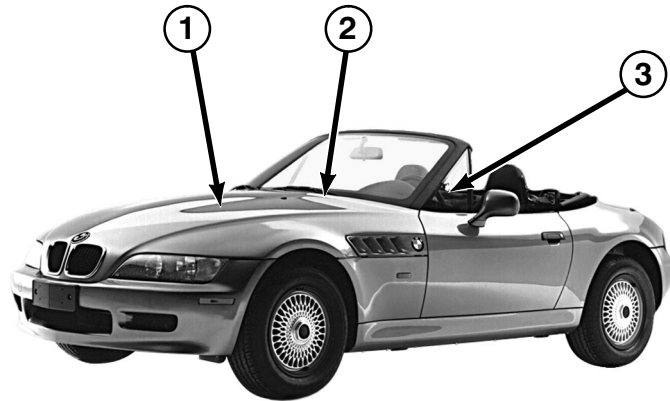
09/98

7000.0-32

1999

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



A6000
ENGINE CONTROL
MODULE (DME)

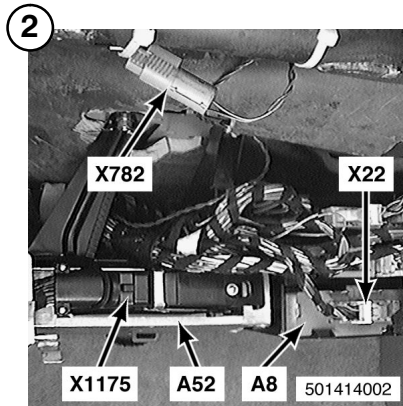
K6326
UNLOADER RELAY,
TERMINAL 15

K6300
ENGINE CONTROL
MODULE RELAY

X6000

K6304
SECONDARY AIR
PUMP RELAY

501414001



A8
CRUISE CONTROL
MODULE (TEMPO-
MAT)

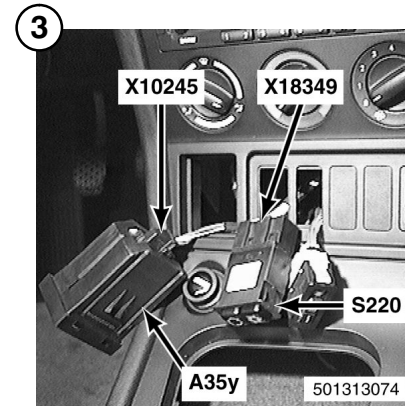
A52
SLIP CONTROL
MODULE (ABS/
ASC)

X22

X782

X1175

501414002



A35y
BOARD COM-
PUTER (BC-
LOW)

S220
AIR CONDITIONING/
RECIRCULATING
SWITCH ASSEMBLY

X10245

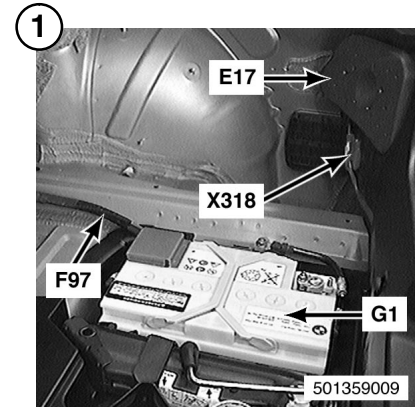
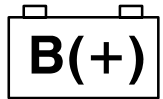
X18349

501313074



COMPONENT LOCATION VIEWS

Z3



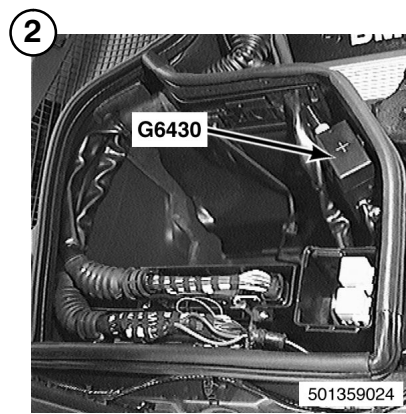
E17
RIGHT REAR LIGHT
ASSEMBLY

X318

F97
FUSIBLE LINK

G1
BATTERY

501359009



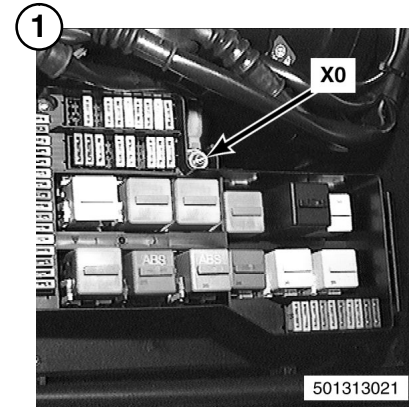
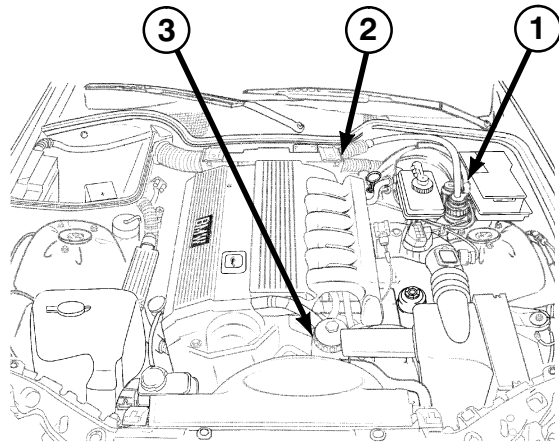
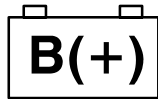
G6430
B+ JUMP START
JUNCTION POINT

501359024



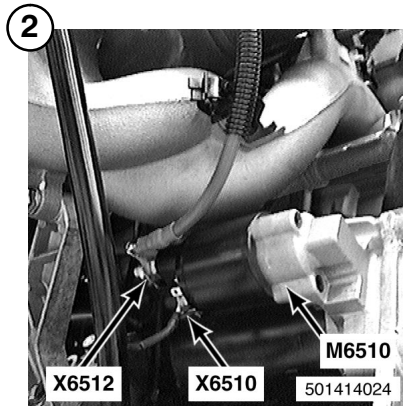
COMPONENT LOCATION VIEWS

Z3



X0
B+ JUNCTION
POINT

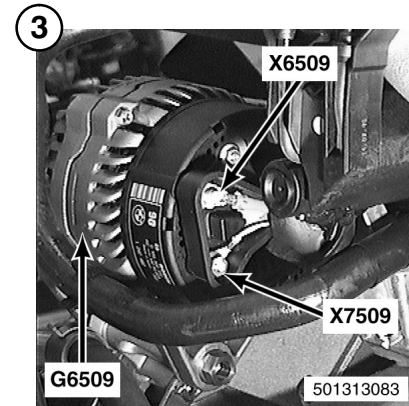
501313021



M6510
STARTER

X6510
X6512

501414024



G6509
GENERATOR

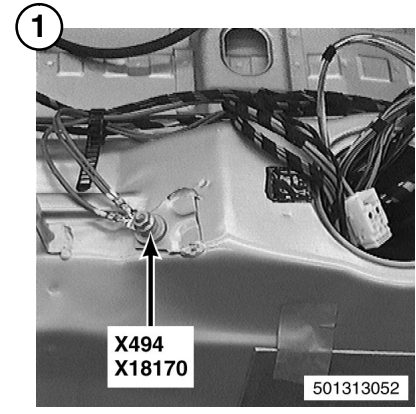
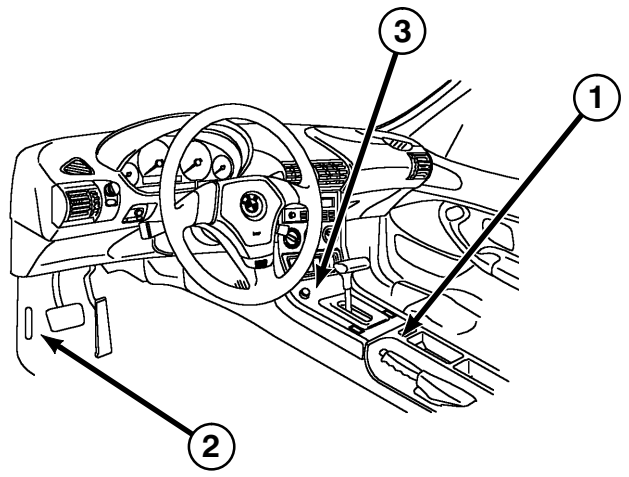
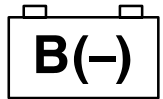
X6509
X7509

501313083



COMPONENT LOCATION VIEWS

Z3

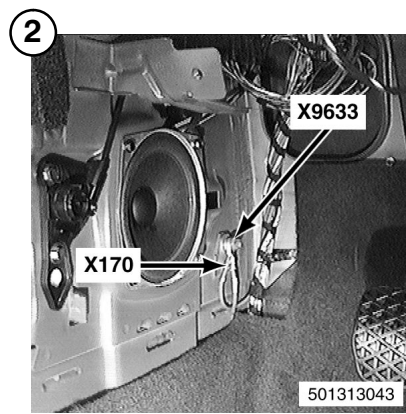


X494
GROUND

X18170
GROUND

X494
X18170

501313052



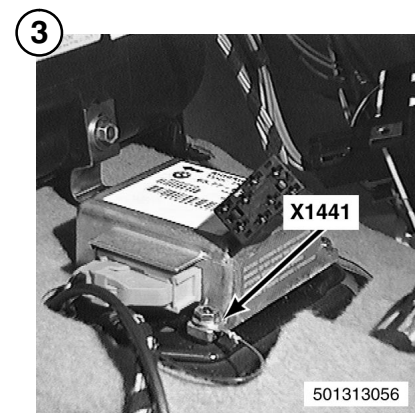
X170
GROUND

X9633
GROUND

X170

X9633

501313043



X1441
GROUND

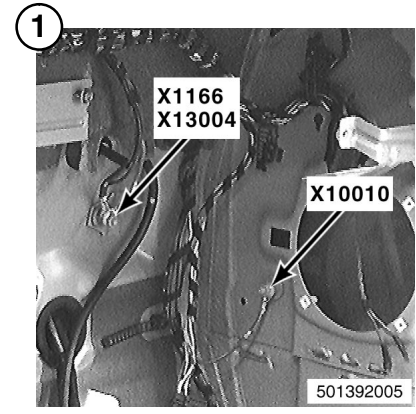
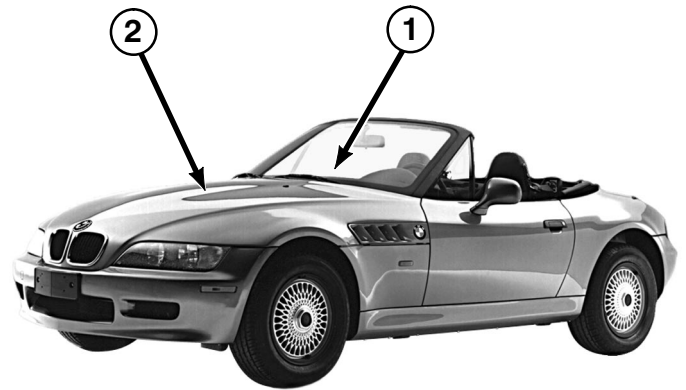
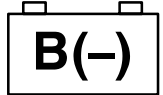
X1441

501313056



COMPONENT LOCATION VIEWS

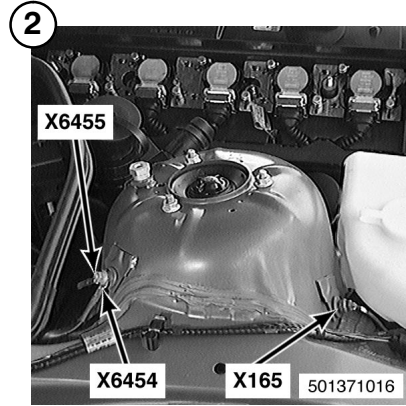
Z3



X1166
GROUND

X10010
GROUND

X13004
GROUND



X165
GROUND

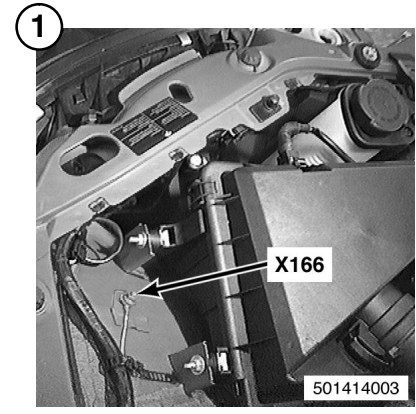
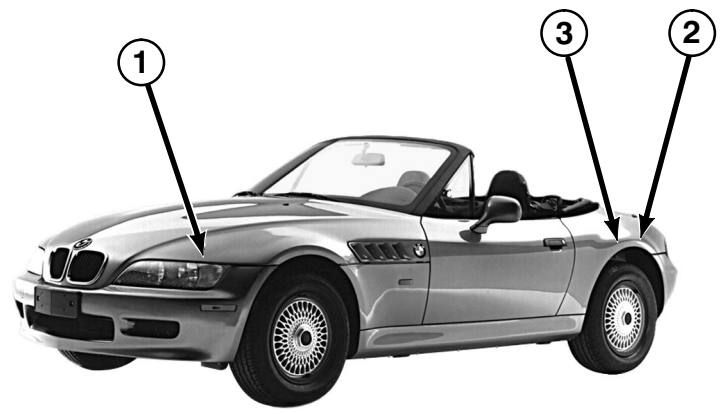
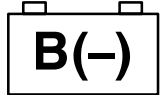
X6454
GROUND

X6455
GROUND

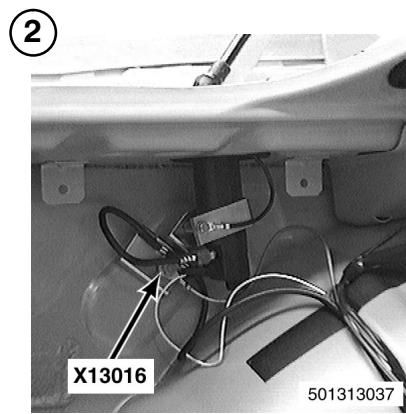


COMPONENT LOCATION VIEWS

Z3



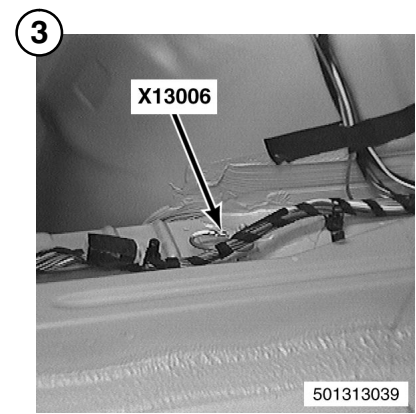
X166
GROUND



X13016
GROUND

X13016

501313037



X13006
GROUND

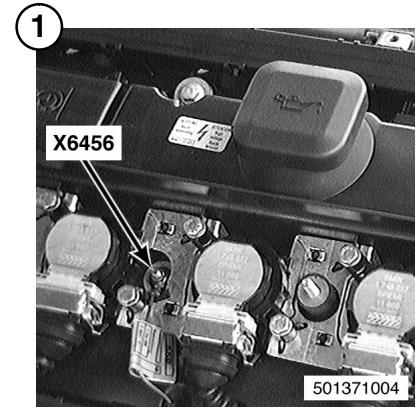
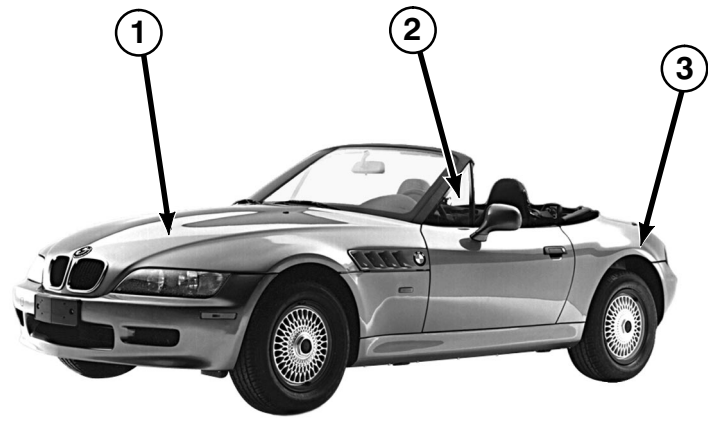
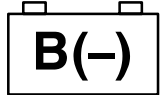
X13006

501313039



COMPONENT LOCATION VIEWS

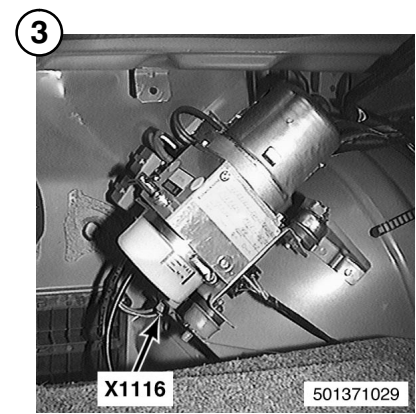
Z3



X6456
GROUND

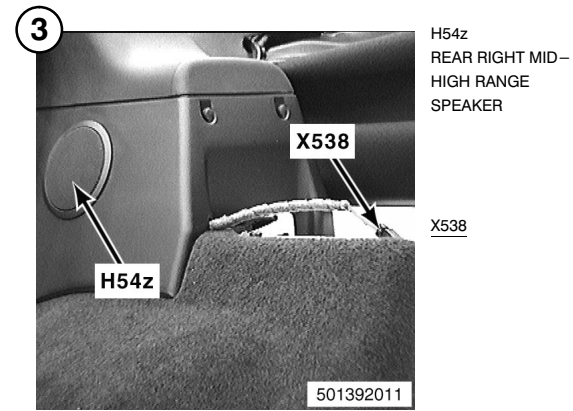
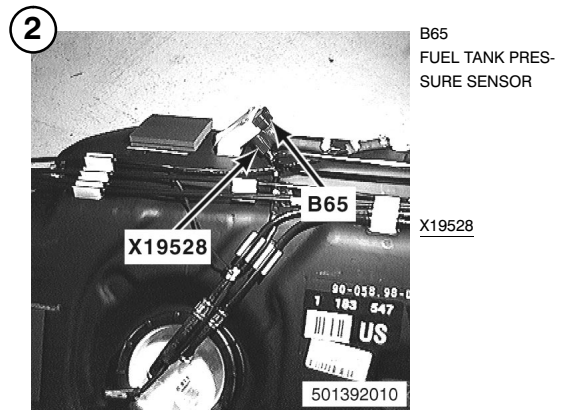
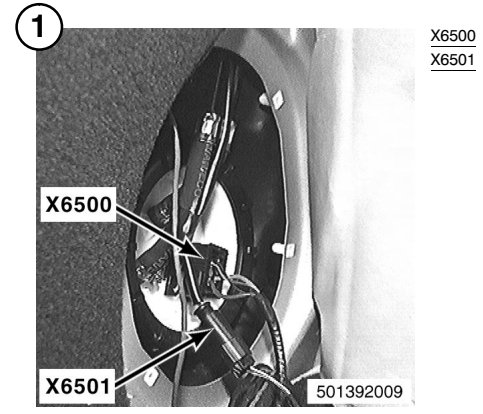
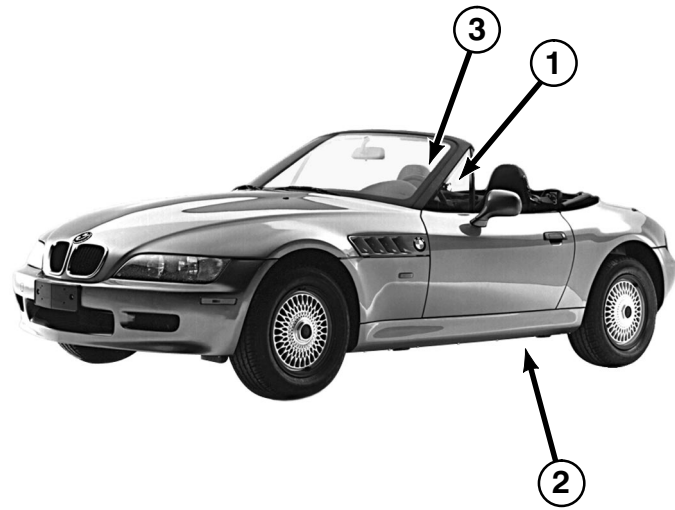


X13032
GROUND

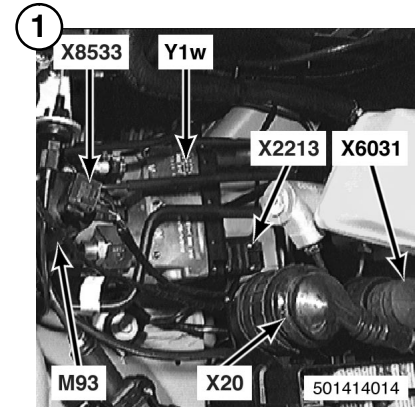
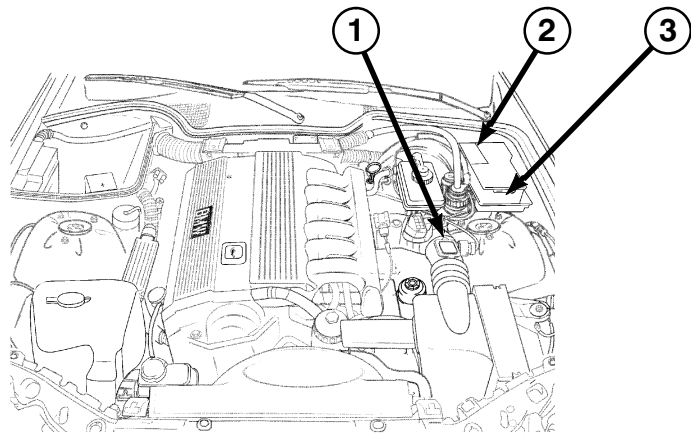


X1116
GROUND

COMPONENT LOCATION VIEWS



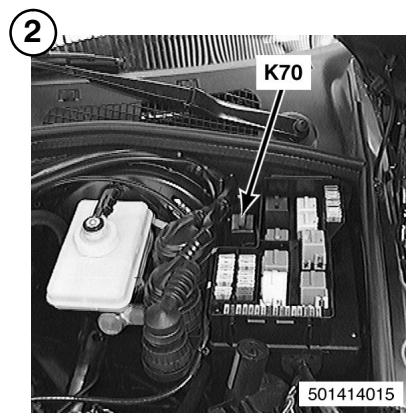
COMPONENT LOCATION VIEWS



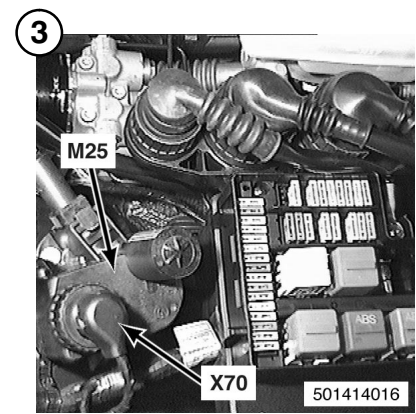
M93
AUXILIARY
THROTTLE POSI-
TION MOTOR (ADS)

Y1w
ABS HYDRAULIC
UNIT

X20
X2213
X6031
X8533



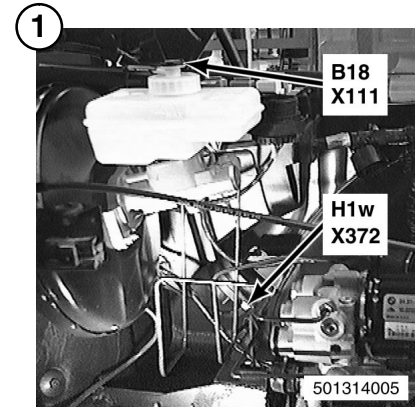
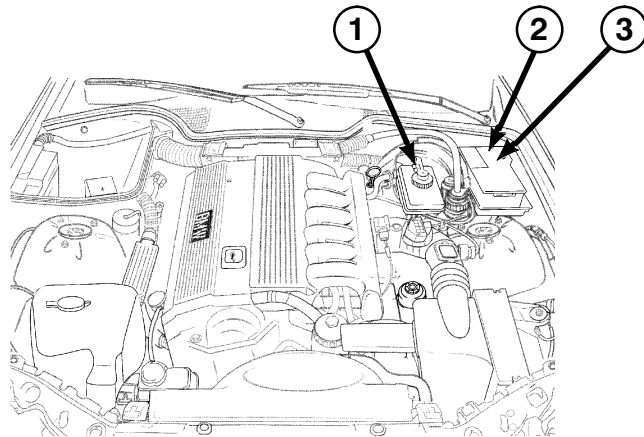
K70
CENTRAL LOCKING
TRUNK LID MOTOR
RELAY (ZV)



M25
CRUISE CONTROL
ACTUATOR (TEM-
POMAT)

X70

COMPONENT LOCATION VIEWS

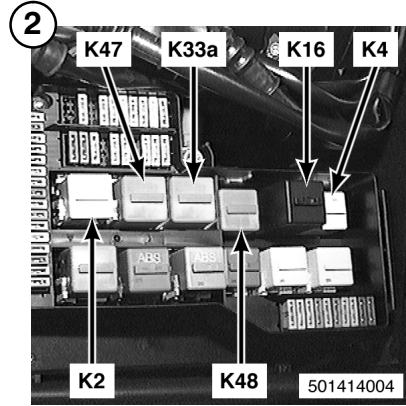


B18
BRAKE FLUID LEVEL SWITCH

H1w
ANTI-THEFT HORN (ALPINE)

X111
X372

501314005



K2
HORN RELAY

K33a
AIR CONDITIONING RELAY, MOTRONIC

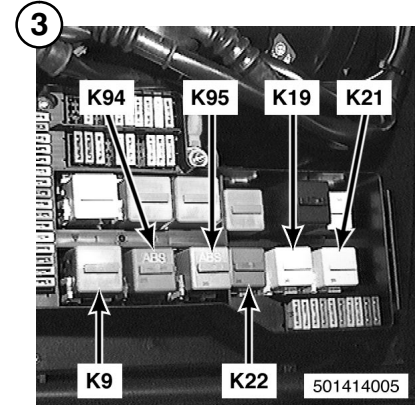
K16
HAZARD FLASHER RELAY

K4
BLOWER RELAY

K47
FRONT FOG LIGHT RELAY

K48
LOW BEAM LIGHT RELAY

501414004



K9
UNLOADER RELAY, TERMINAL 15

K19
COMPRESSOR CONTROL RELAY

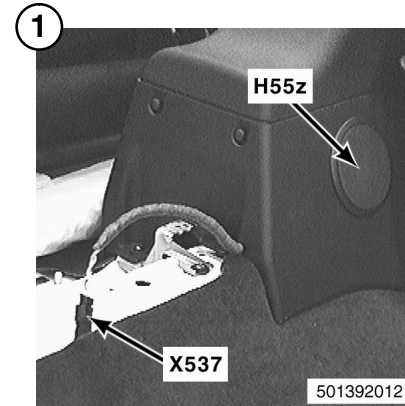
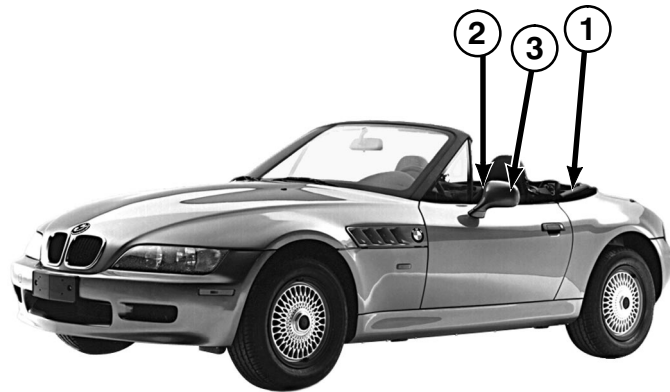
K21
NORMAL SPEED RELAY

K22
HIGH SPEED RELAY

K94
ENGINE CONTROL RELAY (ABS/ASC)

K95
VALVE RELAY (ABS/ASC)

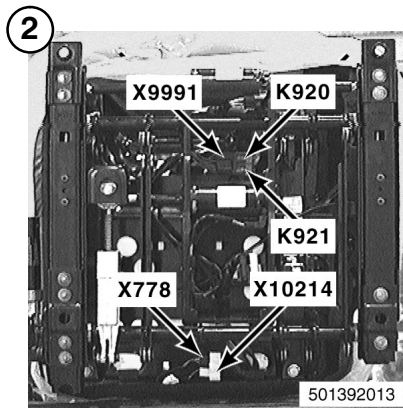
501414005



H55z
REAR LEFT MID-HIGH RANGE
SPEAKER

X537

501392012

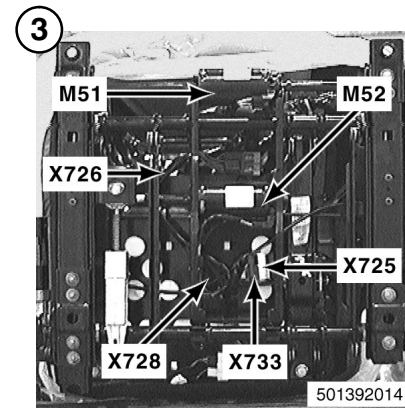


K920
DRIVER'S SEAT
TILT ADJUST CUT-OFF RELAY

K921
DRIVER'S SEAT
LENGTH ADJUST
CUT-OFF RELAY

X778
X9991
X10214

501392013



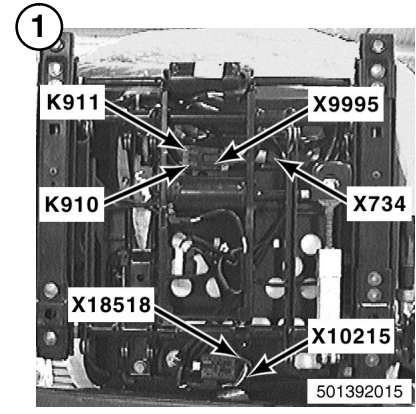
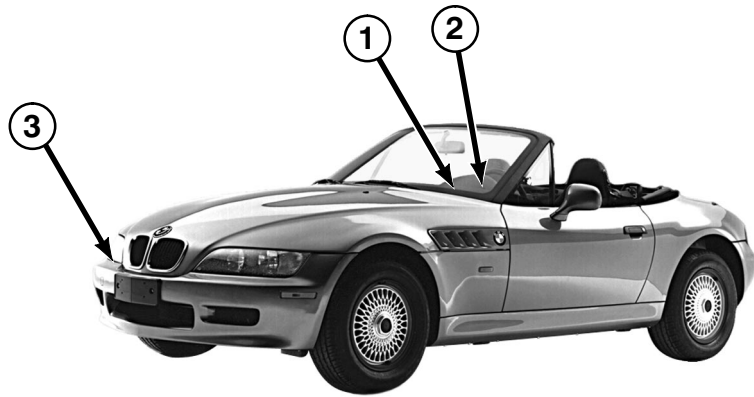
M51
DRIVER'S SEAT
MOVEMENT MO-
TOR

M52
DRIVER'S SEAT
HEIGHT MOTOR

X275
X726
X728
X733

501392014

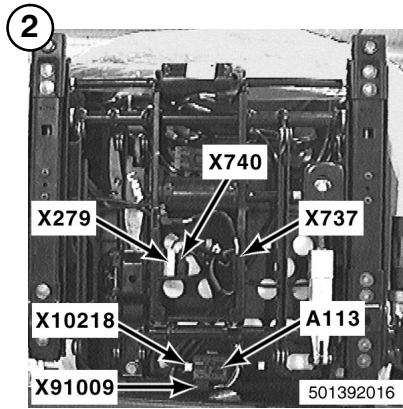
COMPONENT LOCATION VIEWS



K910
PASSENGER'S
SEAT TILT ADJUST
CUT-OFF RELAY

K911
PASSENGER'S
SEAT LENGTH AD-
JUST CUT-OFF
RELAY

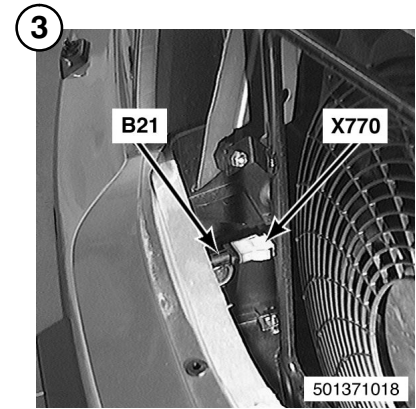
X734
X9995
X10215
X18518



A113
SEAT OCCUPANCY
DETECTOR

X279
X737
X740
X10218
X91009

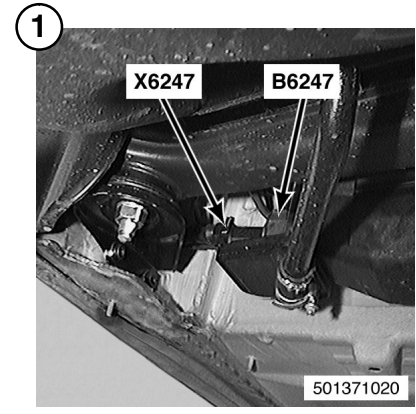
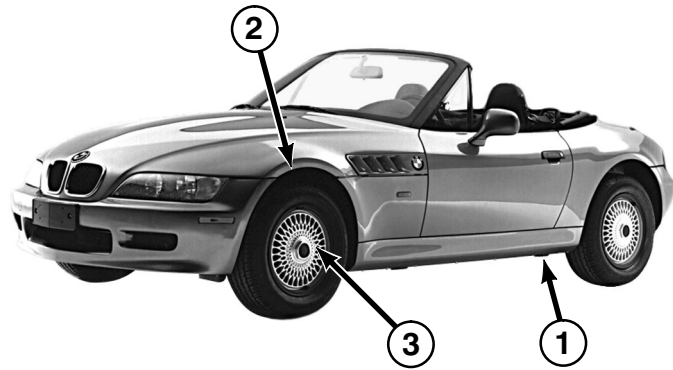
501392016



B21
ON-BOARD COM-
PUTER TEMPERA-
TURE SENSOR

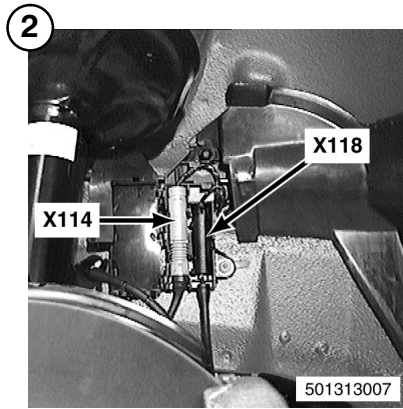
X770

COMPONENT LOCATION VIEWS

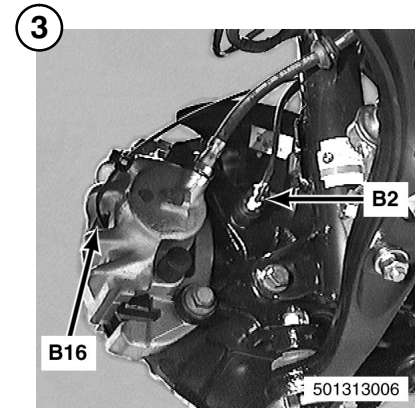


B6247
CHARCOAL FILTER
SHUT-OFF VALVE

X6247



X114
X118

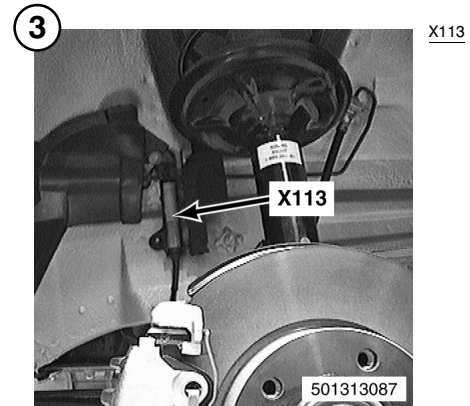
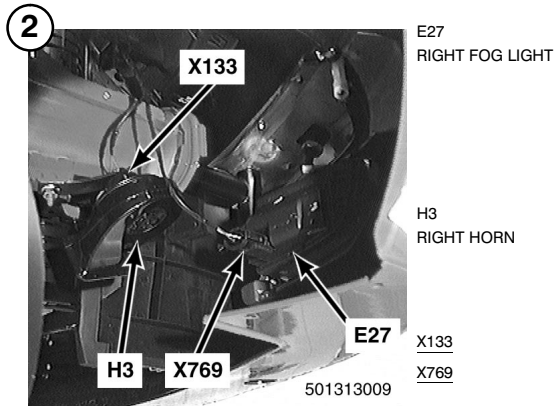
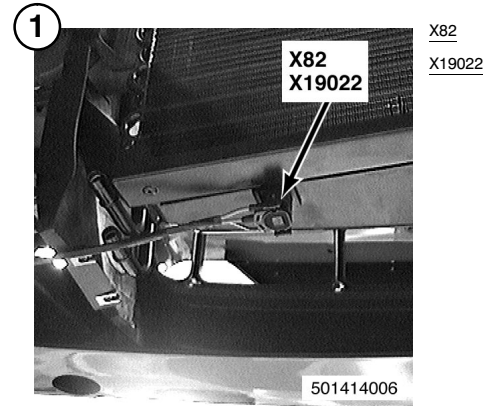
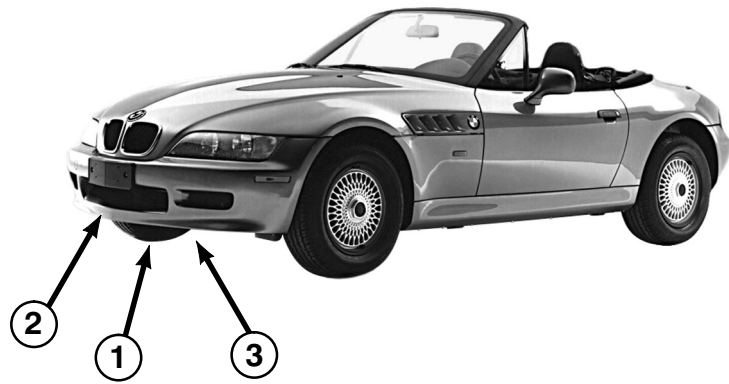


B2
LEFT FRONT
SPEED SENSOR -
ABS

B16
LEFT FRONT
BRAKE PAD SEN-
SOR



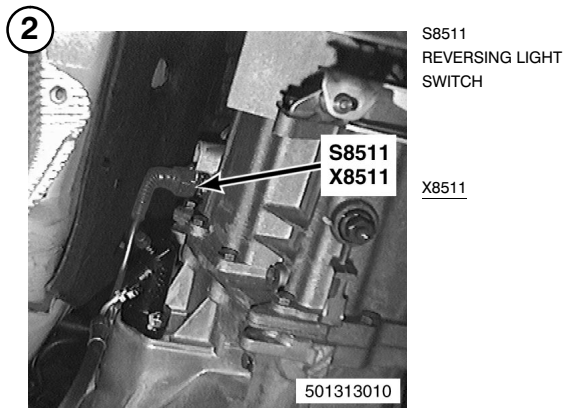
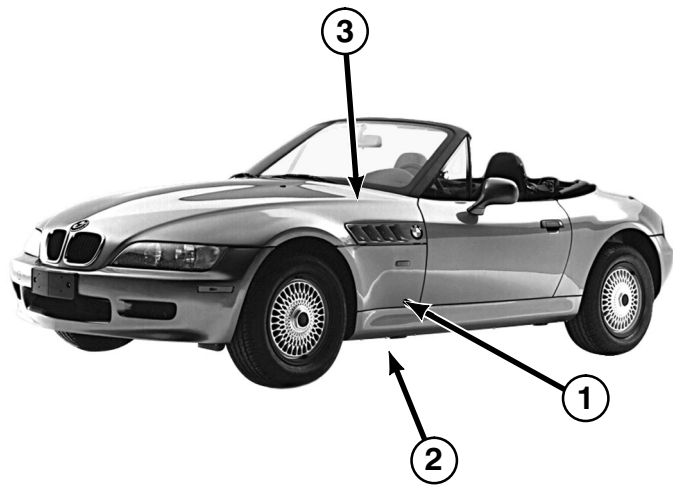
COMPONENT LOCATION VIEWS





Z3

COMPONENT LOCATION VIEWS

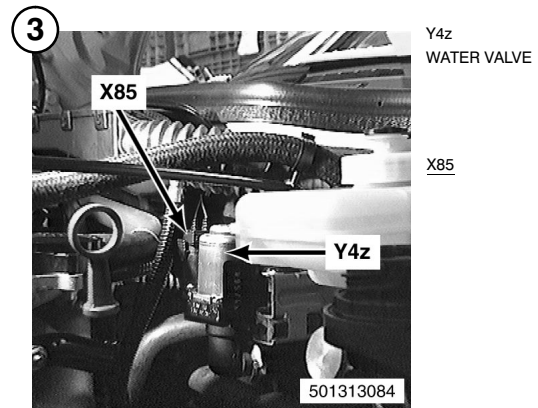


S8511
REVERSING LIGHT
SWITCH

S8511
X8511

X8511

501313010



Y4z
WATER VALVE

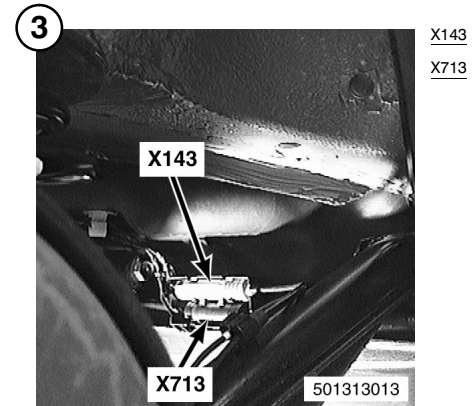
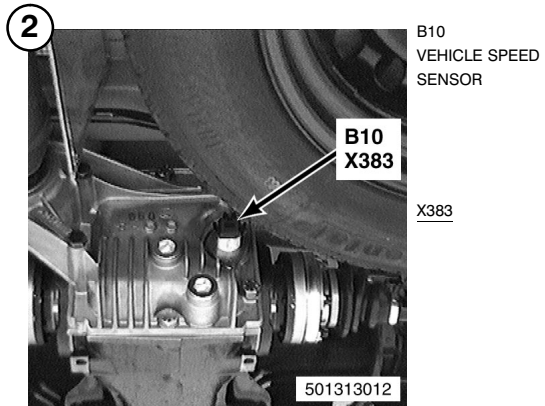
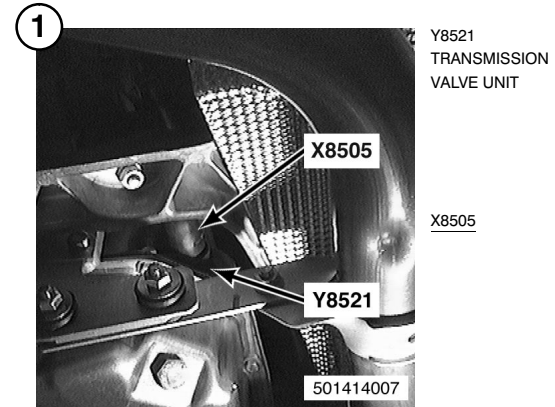
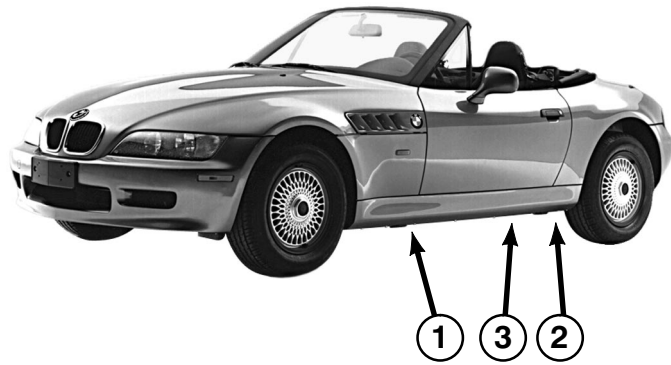
X85

X85

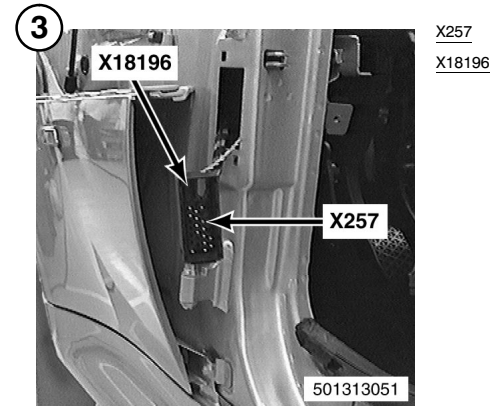
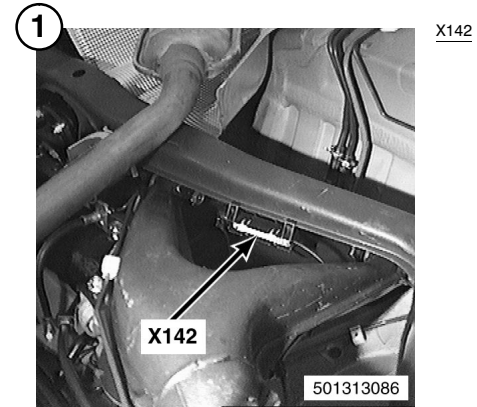
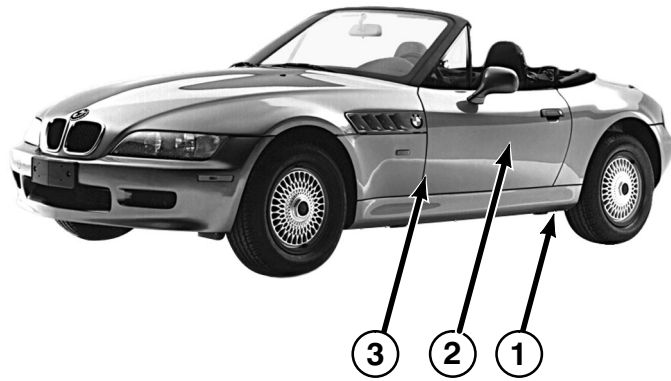
Y4z

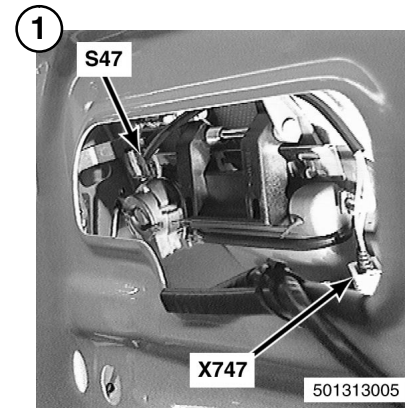
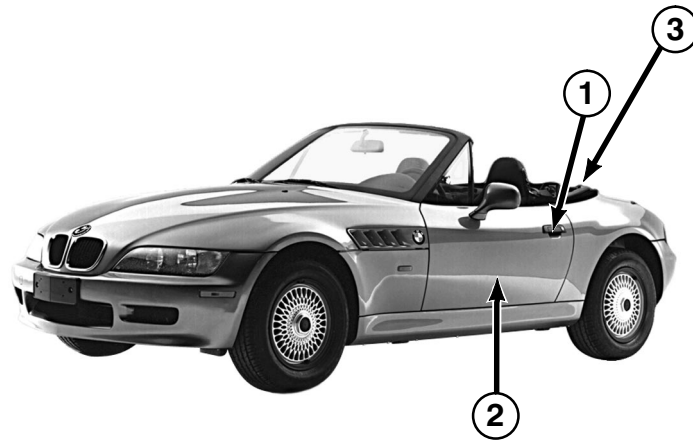
501313084

COMPONENT LOCATION VIEWS



COMPONENT LOCATION VIEWS

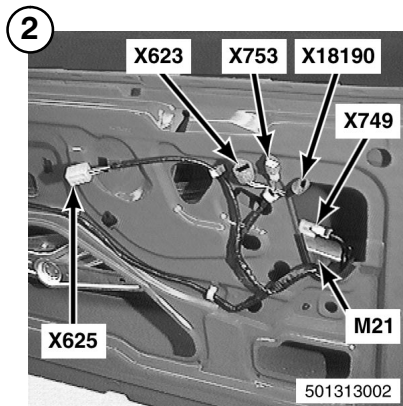




S47
DRIVER'S DOOR
LOCK SWITCH

X747

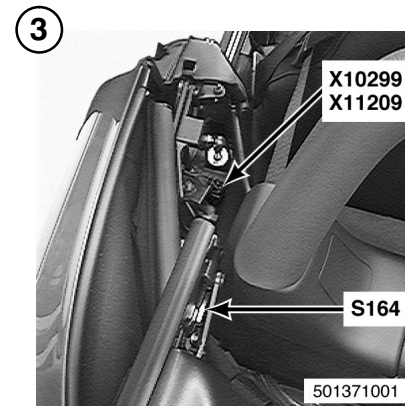
501313005



M21
DRIVER'S WINDOW
MOTOR

X623
X625
X749
X753
X18190

501313002

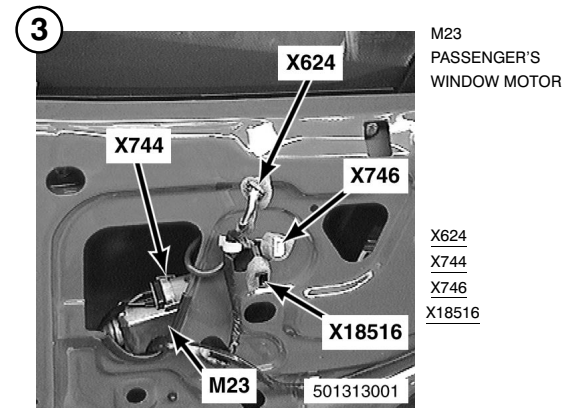
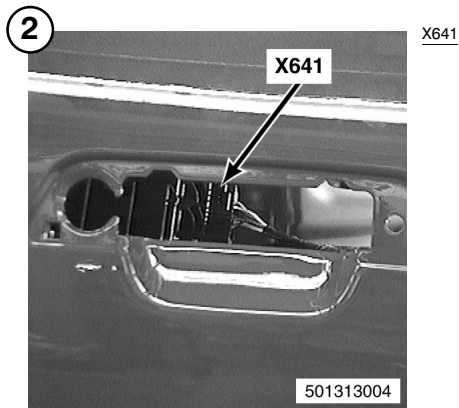
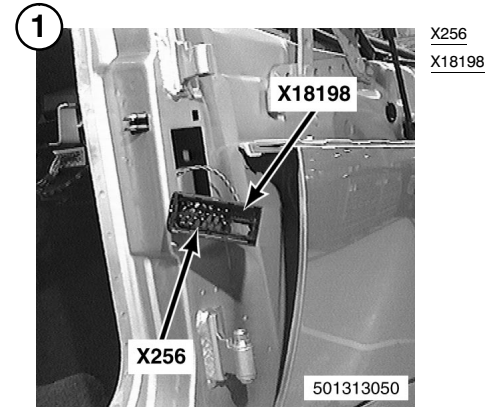
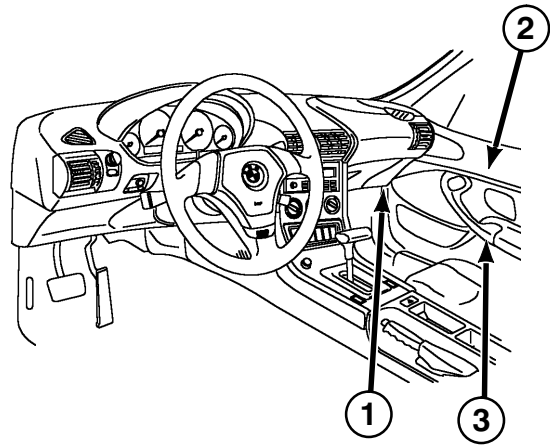


S164
CONVERTIBLE TOP
END-POSITION
MICRO SWITCH

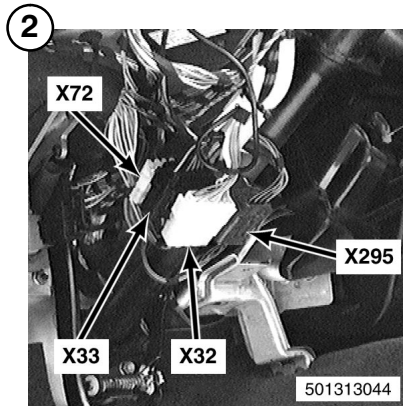
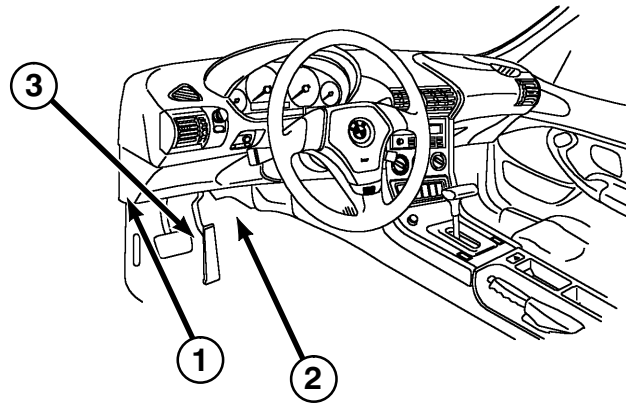
X10299
X11209

501371001

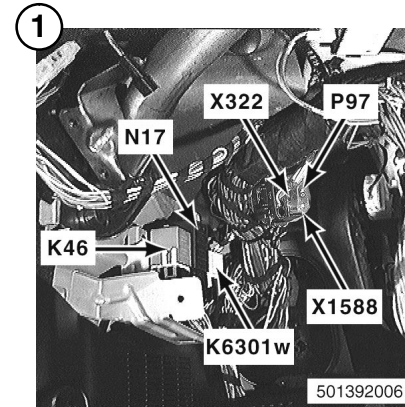
COMPONENT LOCATION VIEWS



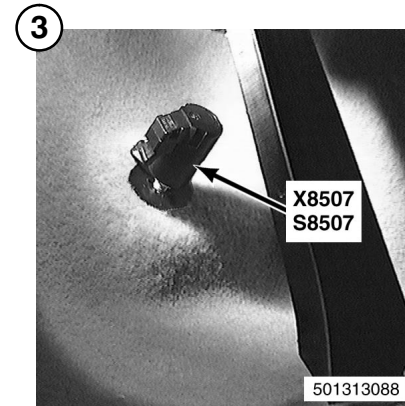
COMPONENT LOCATION VIEWS



X32
X33
X72
X295

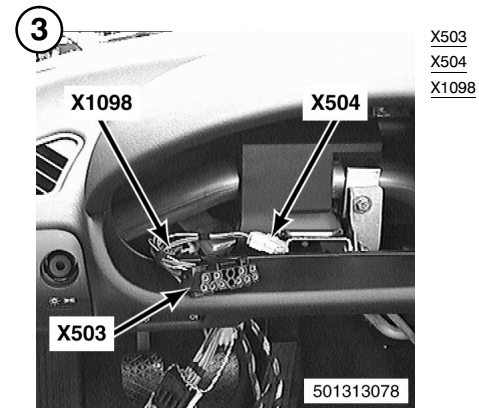
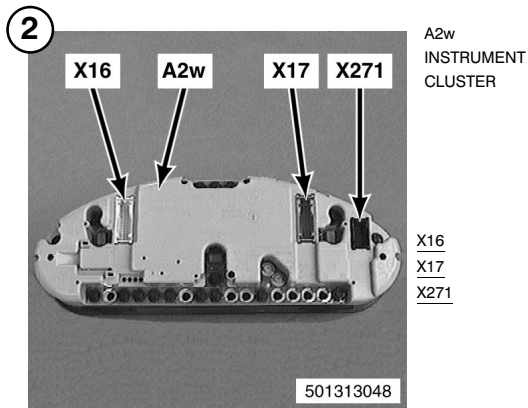
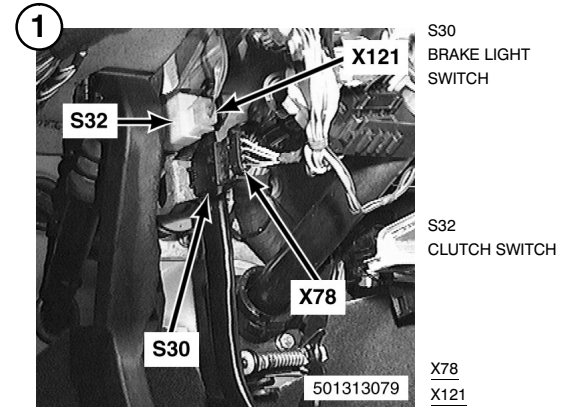
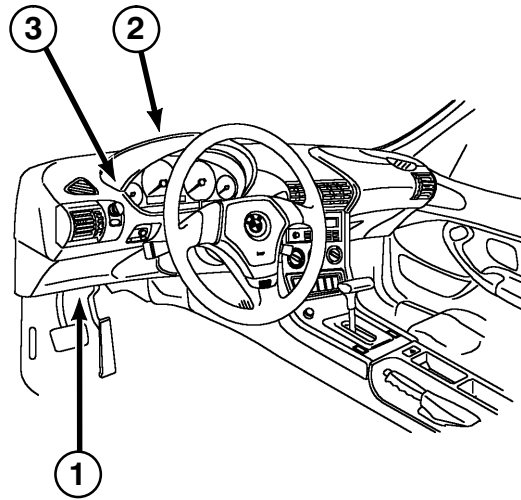


K46 HIGH BEAM LIGHT RELAY
N17 CRASH CONTROL MODULE
X322
P97 AUXILIARY FUSE BOX
K6301w FUEL PUMP RELAY
X1588

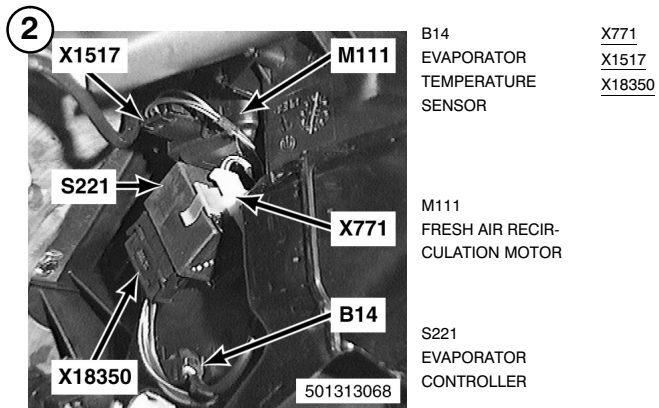
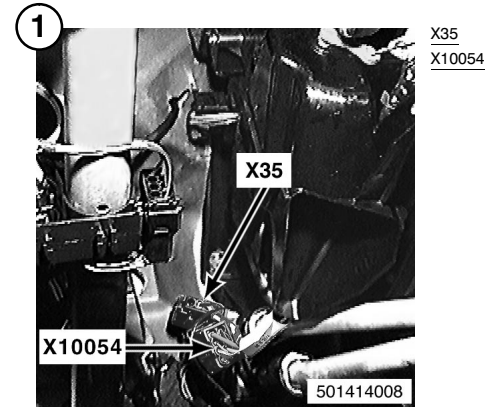
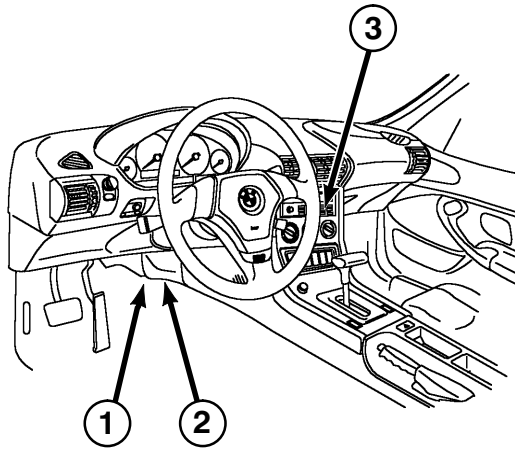


S8507 KICK-DOWN SWITCH
X8507

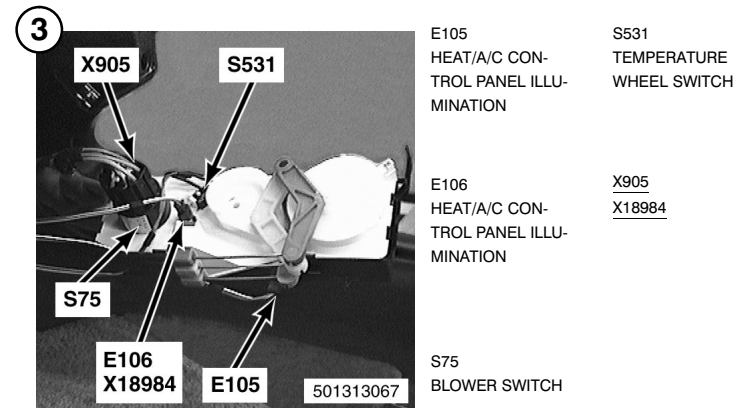
COMPONENT LOCATION VIEWS



COMPONENT LOCATION VIEWS

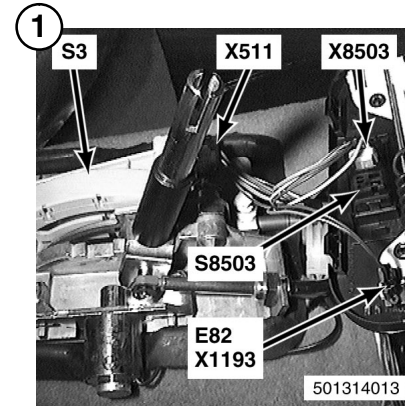
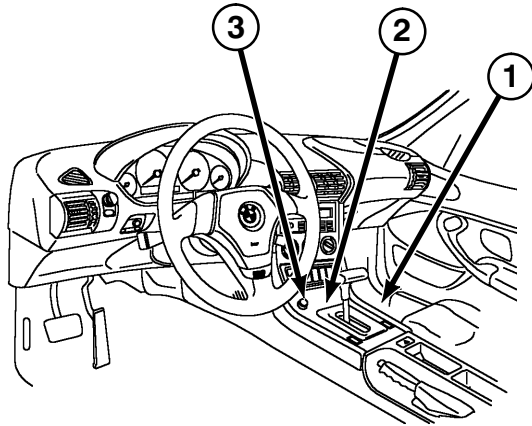


- B14
EVAPORATOR
TEMPERATURE
SENSOR
- M111
FRESH AIR RECIR-
CULATION MOTOR
- S221
EVAPORATOR
CONTROLLER
- X771
- X1517
- X18350



- E105
HEAT/A/C CON-
TROL PANEL ILLU-
MINATION
- E106
HEAT/A/C CON-
TROL PANEL ILLU-
MINATION
- S75
BLOWER SWITCH
- S531
TEMPERATURE
WHEEL SWITCH
- X905
- X18984

COMPONENT LOCATION VIEWS

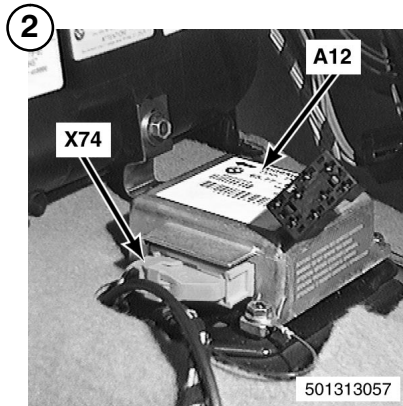


E82
TRANSMISSION
POSITION INDICA-
TOR LIGHT

S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH

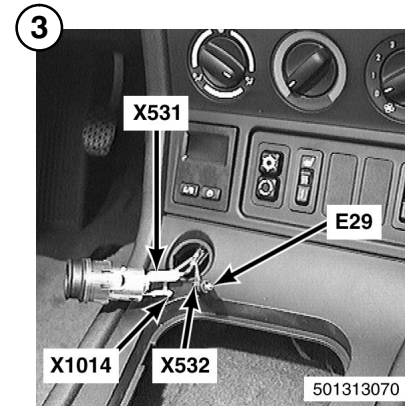
S8503
PROGRAM SWITCH

X511
X1193
X8503



A12
SUPPLEMENTAL
RESTRAINT SYS-
TEM CONTROL
MODULE

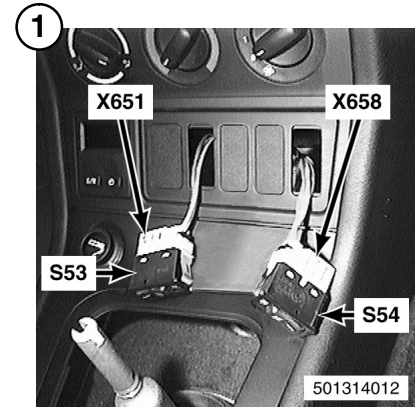
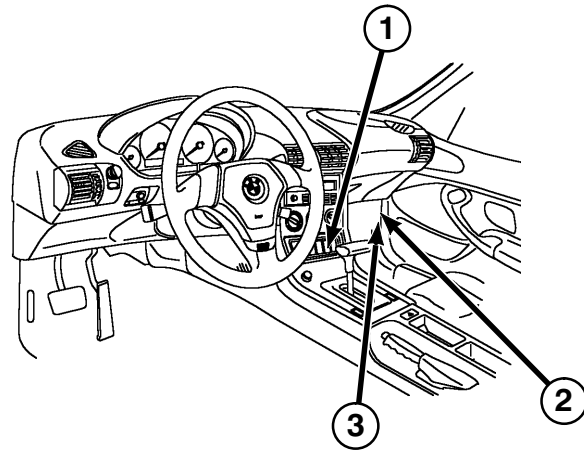
X74



E29
FRONT CIGAR
LIGHTER LIGHT

X531
X532
X1014

COMPONENT LOCATION VIEWS

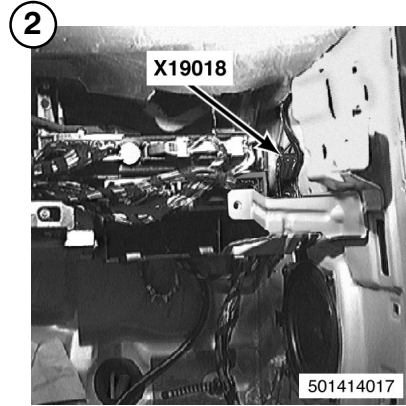


S53
DRIVER'S SEAT,
SEAT HEATER
SWITCH

S54
PASSENGER'S
SEAT, SEAT HEAT-
ER SWITCH

X651
X658

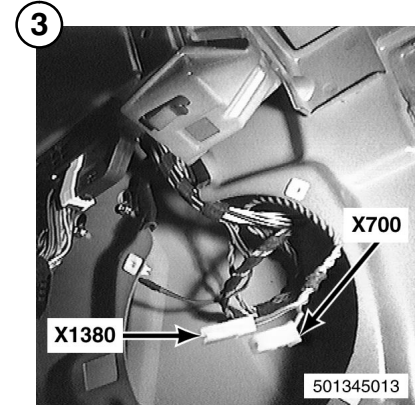
501314012



X19018

X19018

501414017



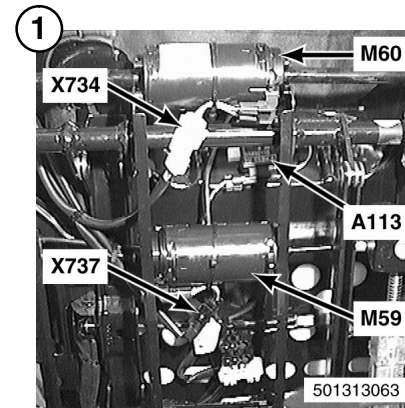
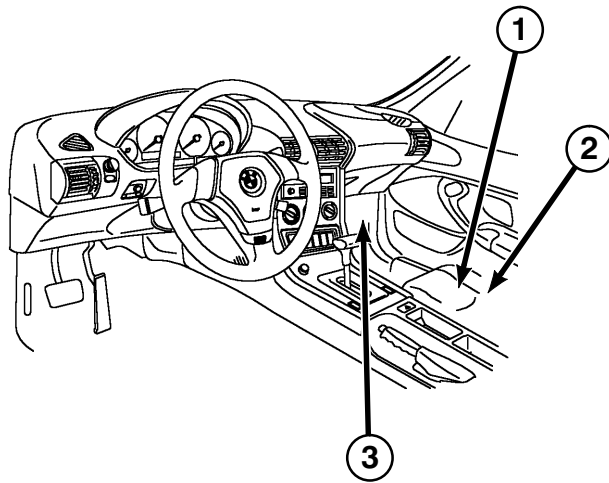
X700
X1380

X700

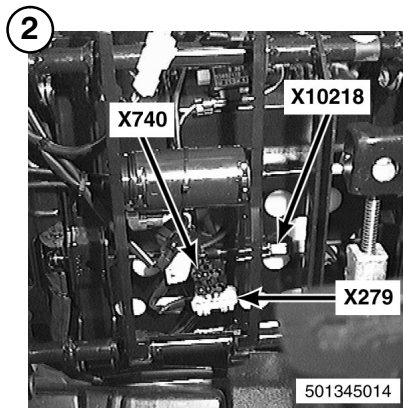
X1380

501345013

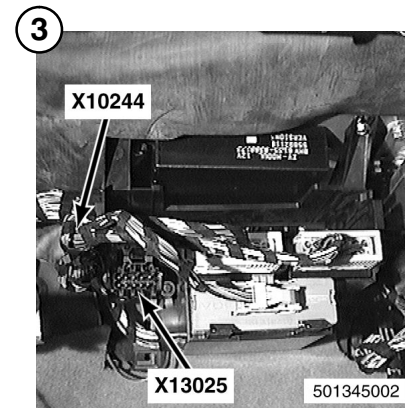
COMPONENT LOCATION VIEWS



A113 SEAT OCCUPANCY DETECTOR
 X734
 X737
 M59 PASSENGER'S SEAT HEIGHT MOTOR
 M60 PASSENGER'S SEAT MOVEMENT MOTOR
 501313063

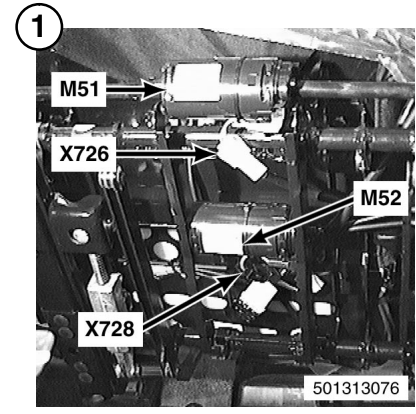
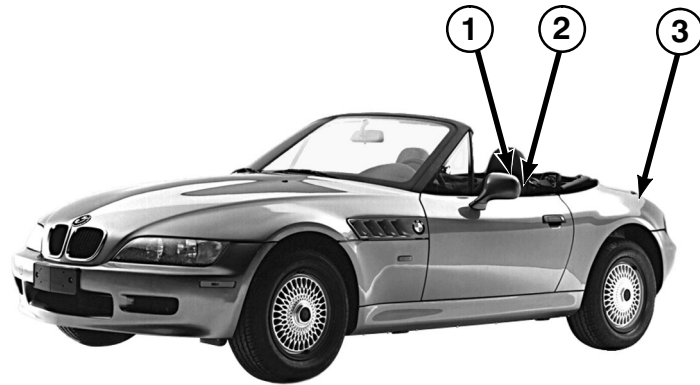


X279
 X740
 X10218
 X279
 501345014



X10244
 X13025
 X10244
 X13025
 501345002

COMPONENT LOCATION VIEWS

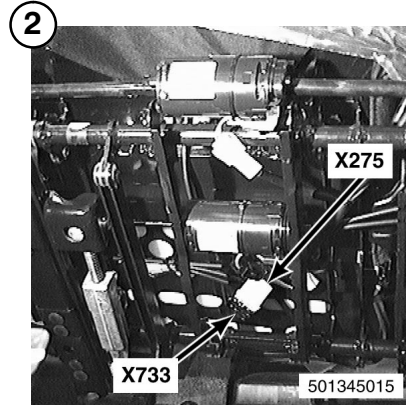


M51
DRIVER'S SEAT
MOVEMENT MO-
TOR

M52
DRIVER'S SEAT
HEIGHT MOTOR

X726
X728

501313076

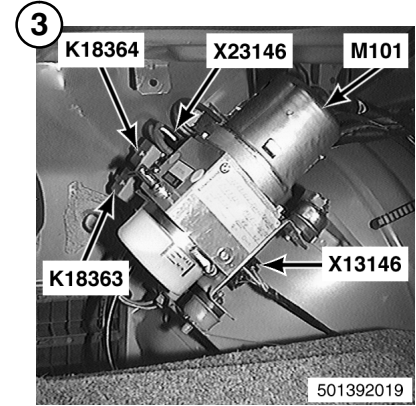


X275
X733

X275

X733

501345015



K18363
CONVERTIBLE TOP
RELAY I (CLOSE)

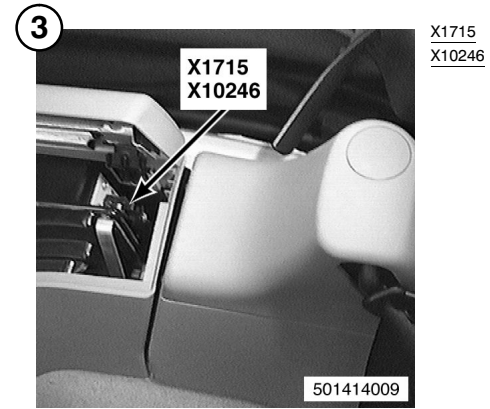
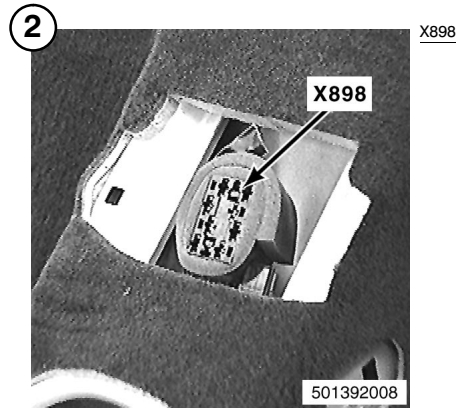
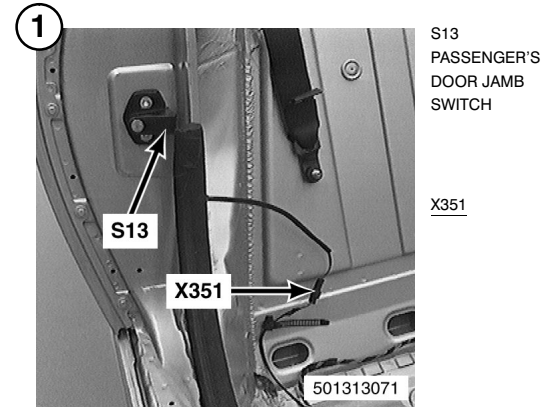
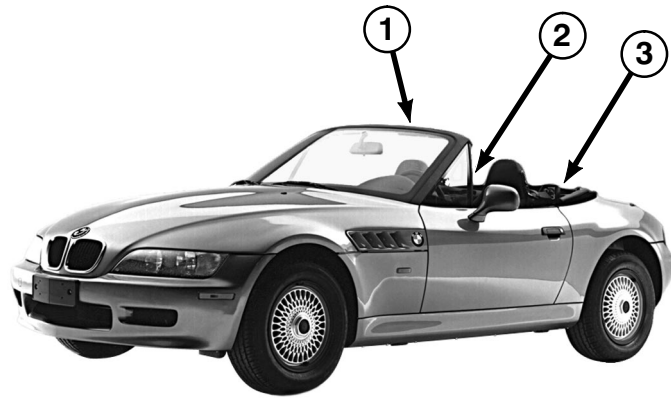
X13146
X23146

K18364
CONVERTIBLE TOP
RELAY II (OPEN)

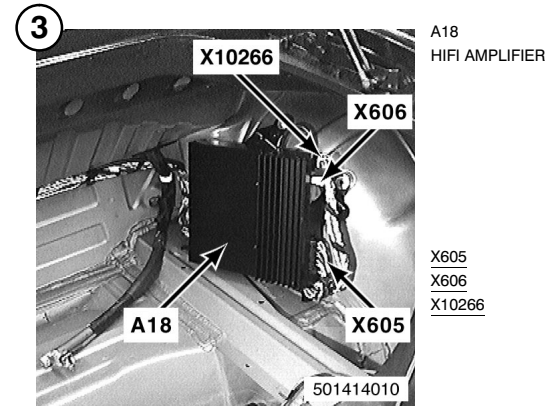
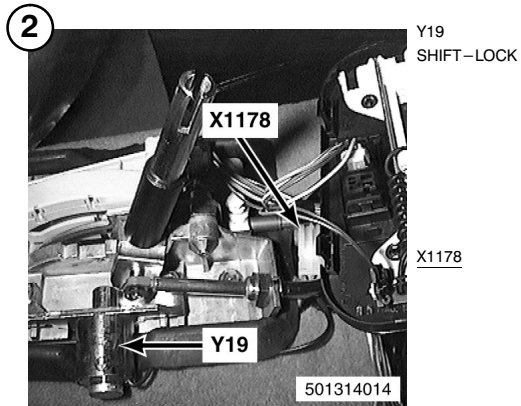
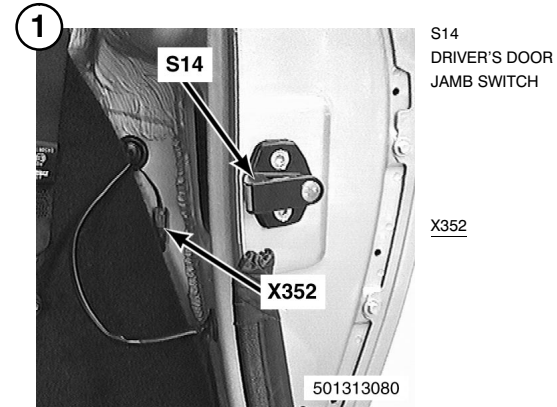
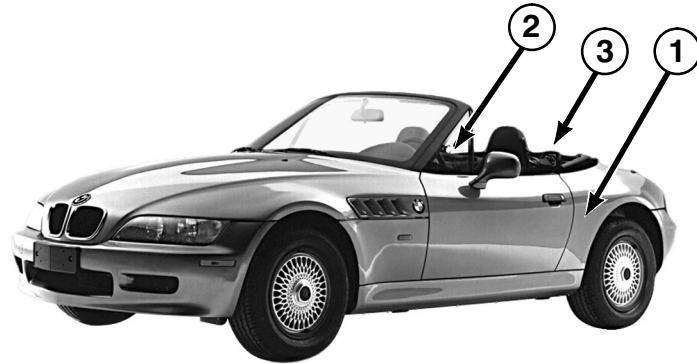
M101
CONVERTIBLE TOP
MOTOR

501392019

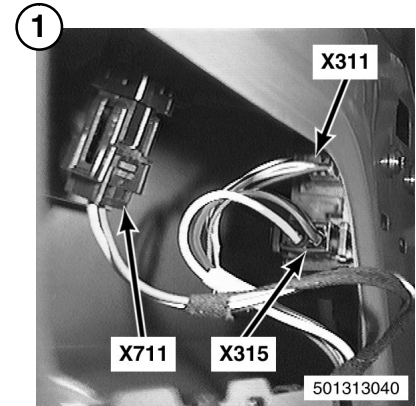
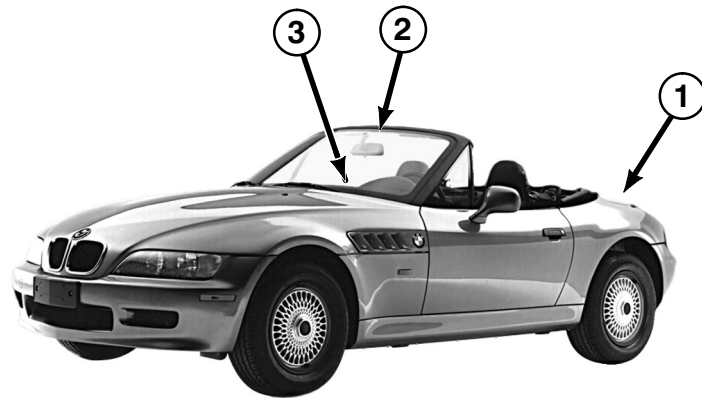
COMPONENT LOCATION VIEWS



COMPONENT LOCATION VIEWS

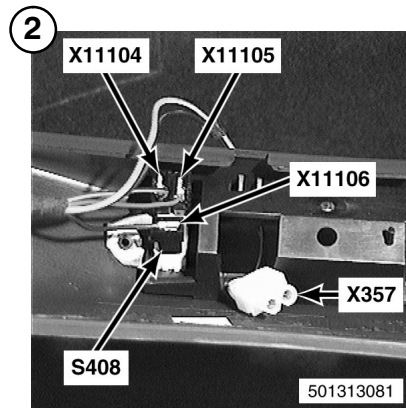


COMPONENT LOCATION VIEWS



X311
X315
X711

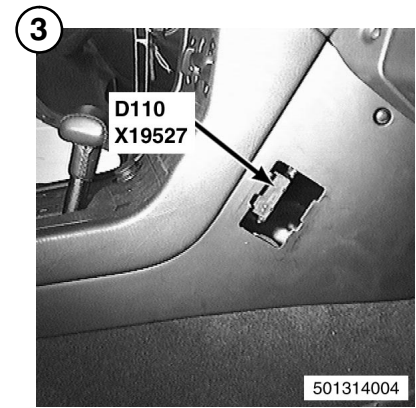
501313040



S408
INTERIOR LIGHT
SWITCH

X357
X11104
X11105
X11106

501313081

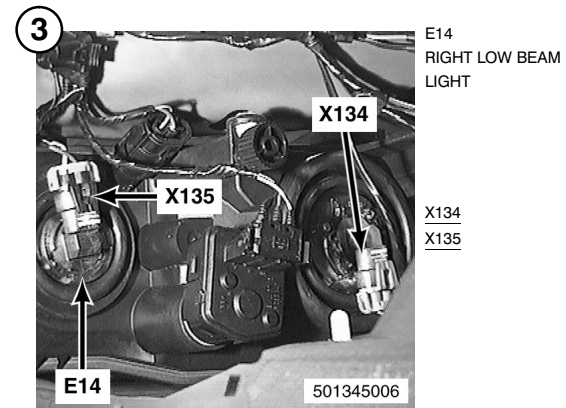
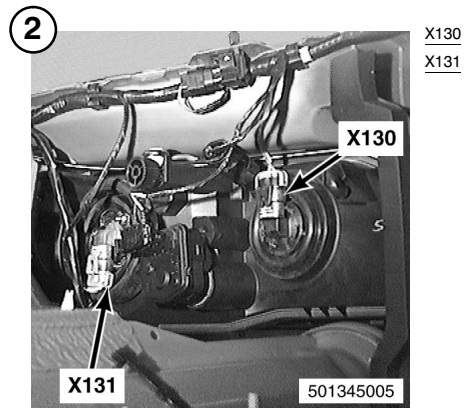
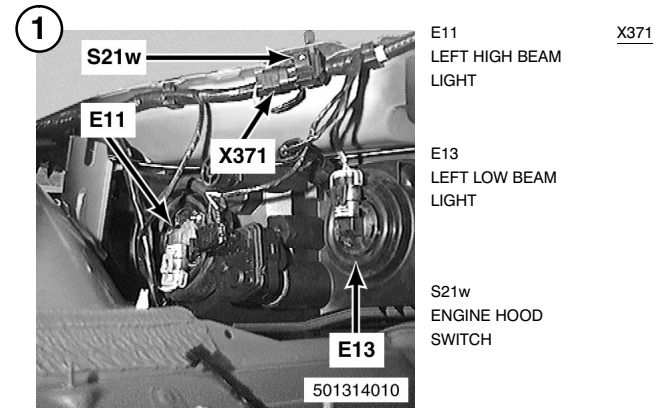
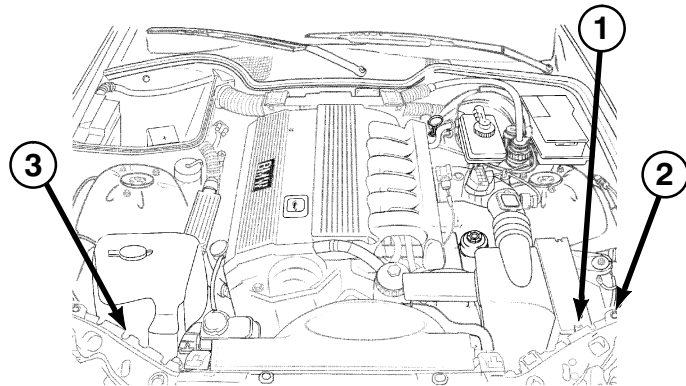


D110
OBD II CONNEC-
TOR

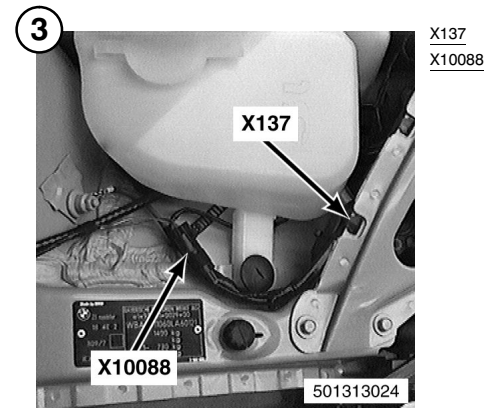
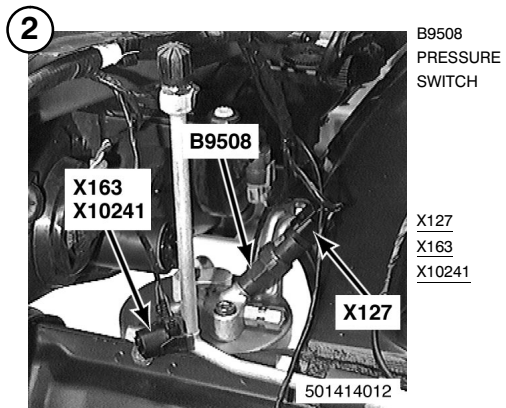
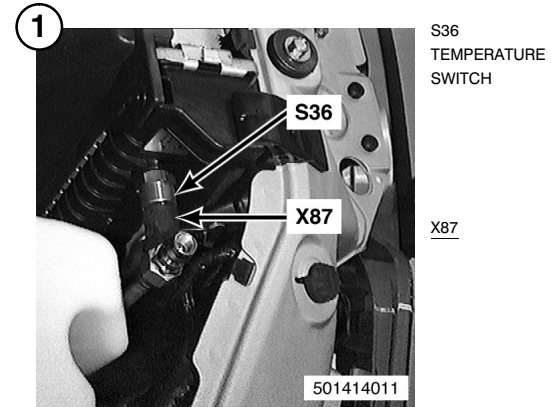
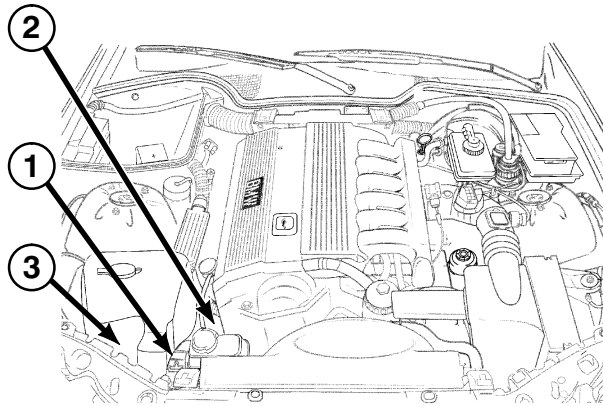
X19527

501314004

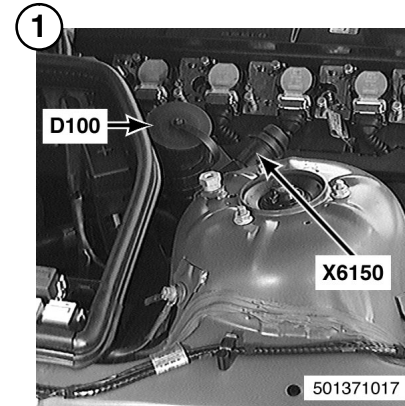
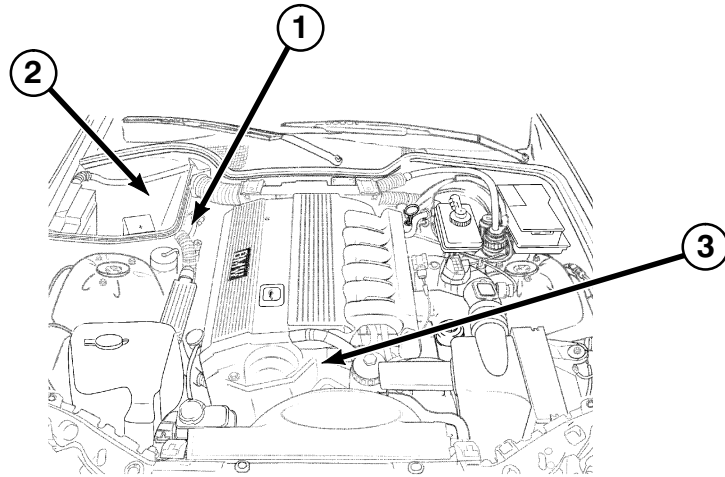
COMPONENT LOCATION VIEWS



COMPONENT LOCATION VIEWS

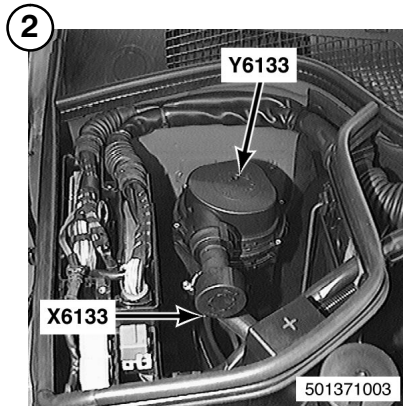


COMPONENT LOCATION VIEWS



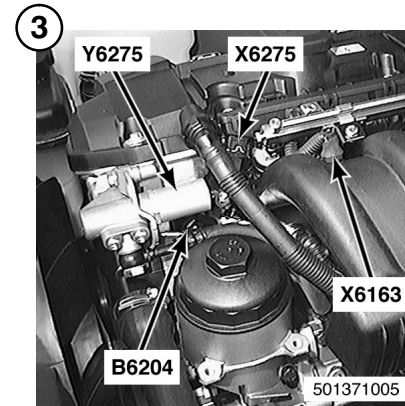
D100
DATA LINK CON-
NECTOR

X6150



Y6133
AIR PUMP

X6133

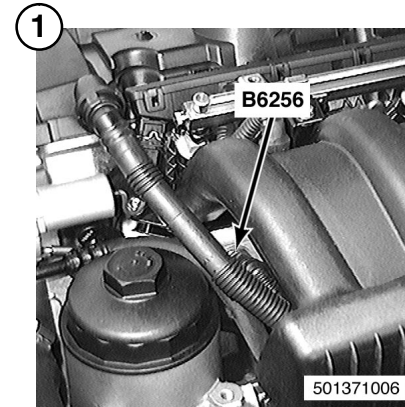
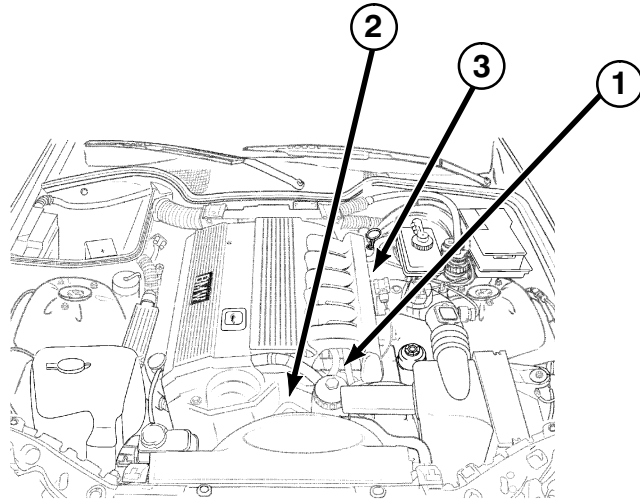


B6204
CAMSHAFT POSI-
TION SENSOR
(CYLINDER IDEN-
TIFICATION)

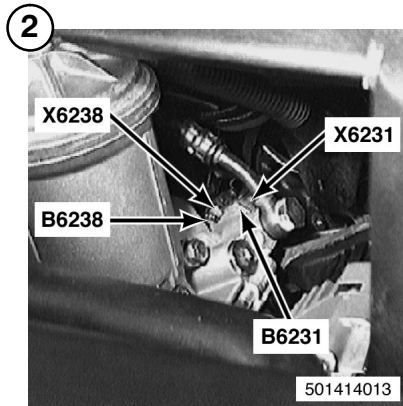
Y6275
VARIABLE CAM-
SHAFT CONTROL
VALVE 1

X6163
X6275

COMPONENT LOCATION VIEWS



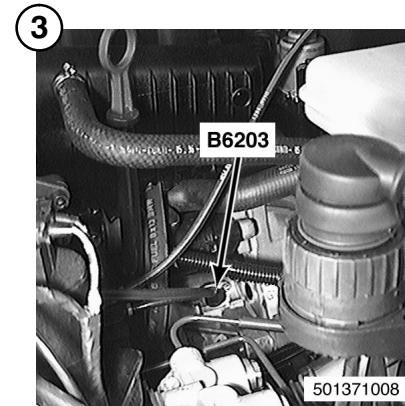
B6256
DUAL TEMPERATURE SENSOR
(COOLANT TEMPERATURE)



B6231
OIL PRESSURE SWITCH

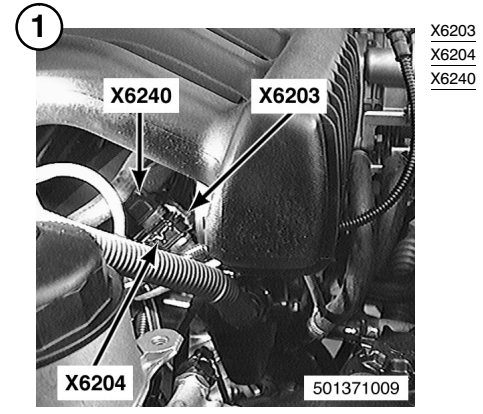
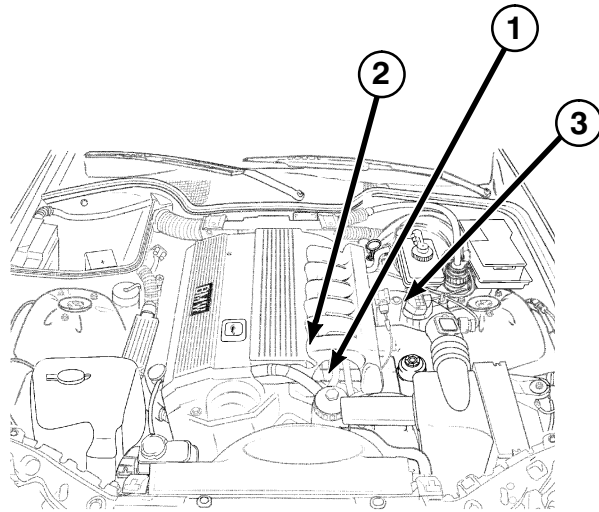
B6238
OIL TEMPERATURE SENSOR

X6231
X6238



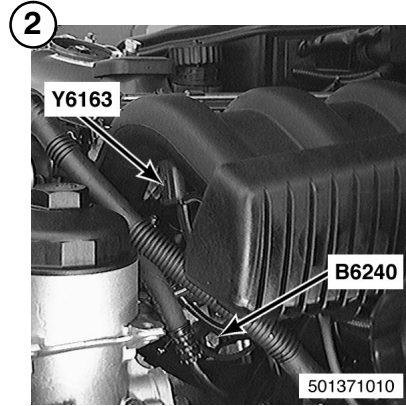
B6203
CRANKSHAFT POSITION/RPM SENSOR

COMPONENT LOCATION VIEWS



X6203
X6204
X6240

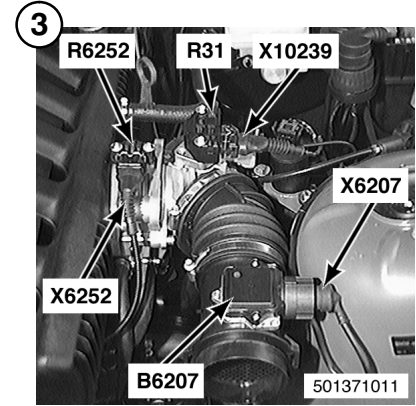
501371009



B6240
KNOCK SENSOR

Y6163
SECONDARY AIR
PUMP VALVE

501371010



B6207
HOT FILM AIR
MASS METER

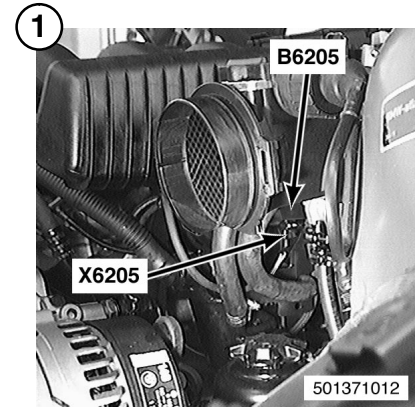
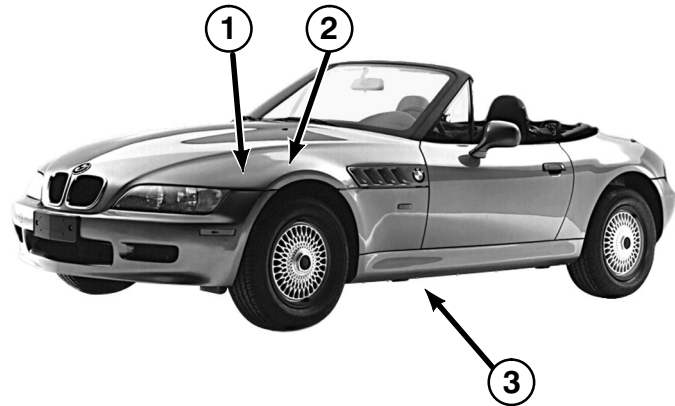
X6207
X6252
X10239

R31
AUXILIARY
THROTTLE POSI-
TION SENSOR

R6252
THROTTLE POSI-
TION SENSOR

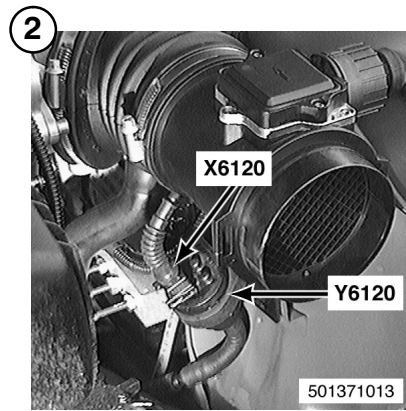
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COMPONENT LOCATION VIEWS

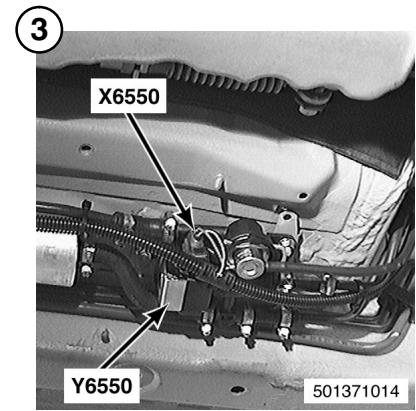


B6205
INTAKE AIR TEM-
PERATURE SEN-
SOR

X6205



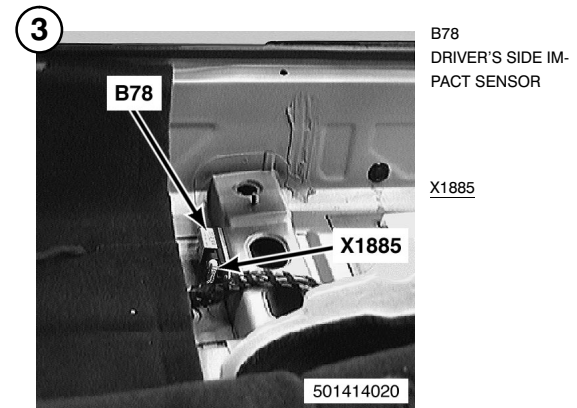
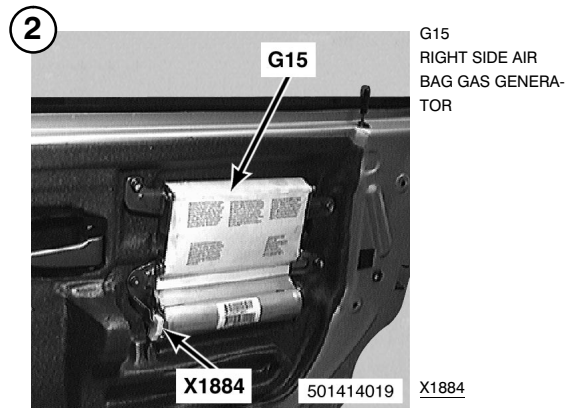
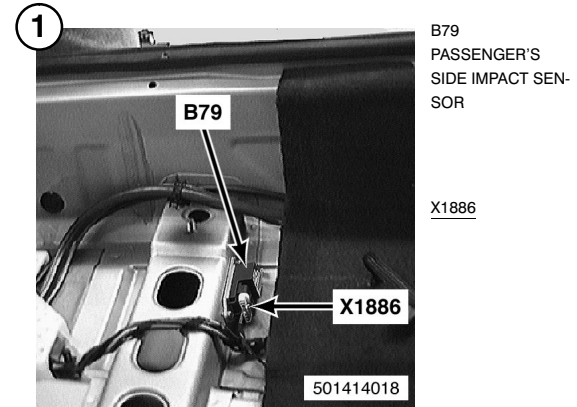
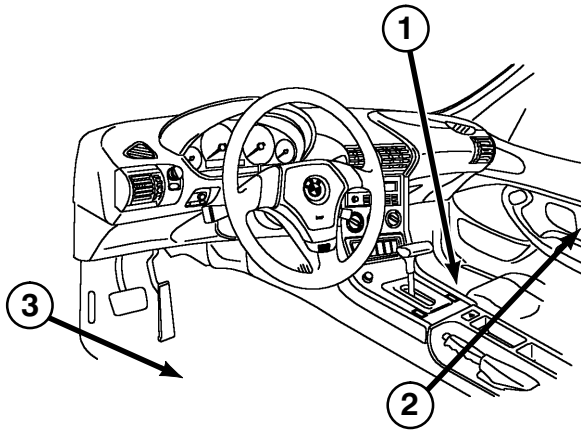
Y6120
EVAPORATIVE
EMISSION VALVE



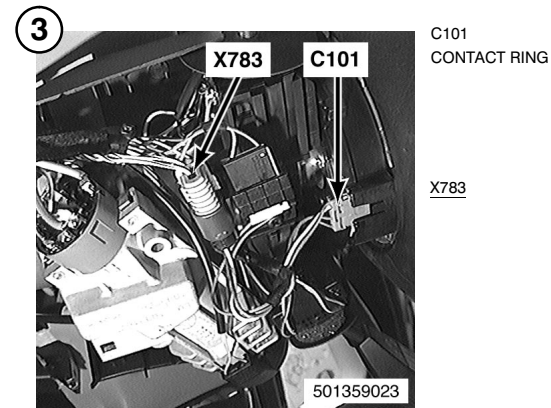
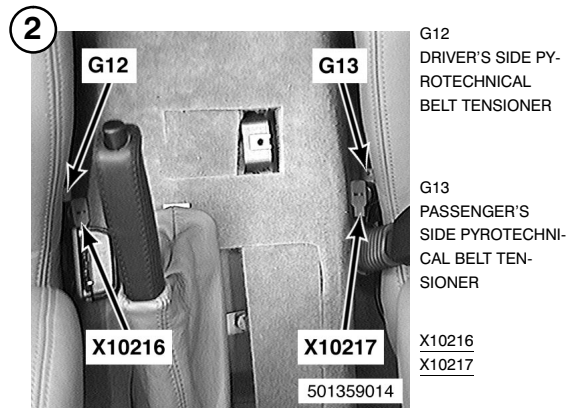
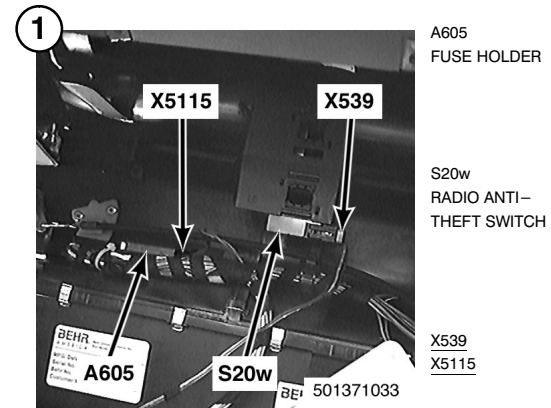
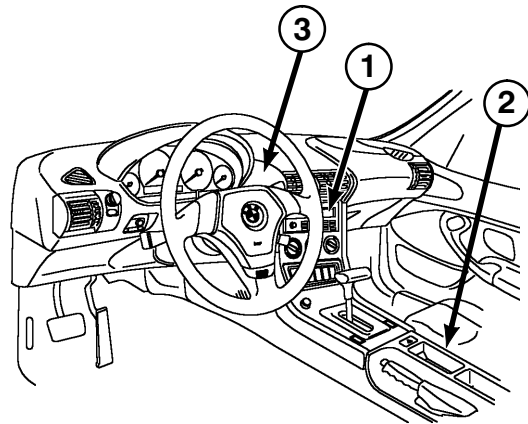
Y6550
SOLENOID VALVE
("RUNNING
LOSSES")

X6550

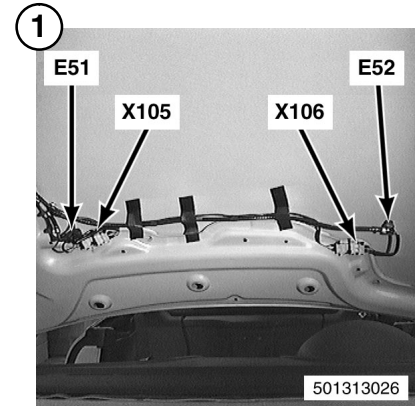
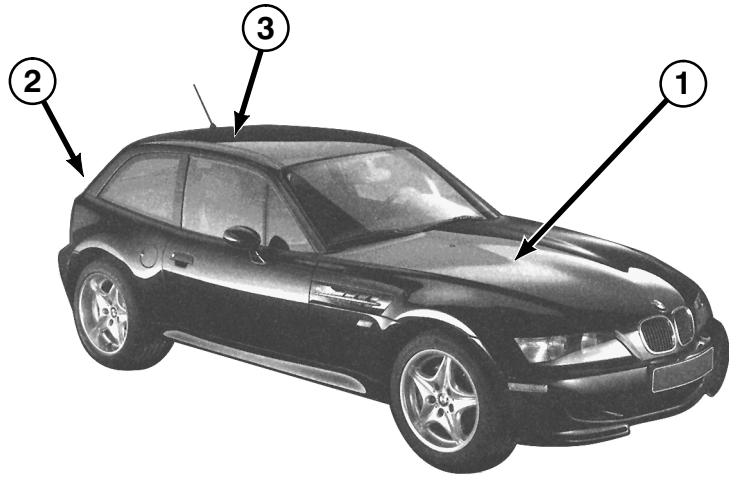
COMPONENT LOCATION VIEWS



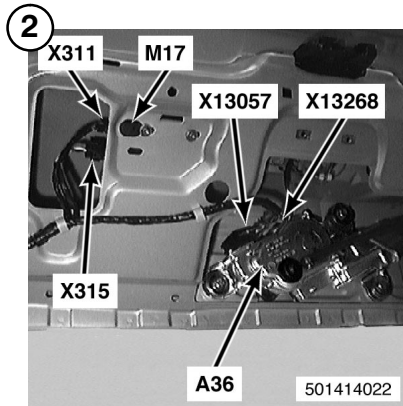
COMPONENT LOCATION VIEWS



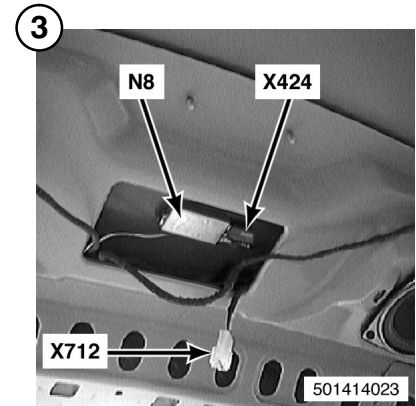
COMPONENT LOCATION VIEWS



1
E51
LEFT WASHER JET
HEATER
E52
RIGHT WASHER
JET HEATER
X105
X106
501313026



2
X311
M17
X13057
X13268
A36
X315
501414022
A36
REAR WIPER/
WASHER INTERVAL
CONTROL MOD-
ULE
M17
TRUNK LOCK MO-
TOR
X13057
X13268
X311
X315



3
N8
X424
X712
501414023
N8
ANTENNA AMPLIFI-
ER AM/FM
X424
X712



SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER			
X181–X188	BODY	8000.0-03	X849–X851	DRIVER'S DOOR	8000.0-04
X189	IHKS	8000.0-03	X876–X877	RADIO/HIFI/CD	NOT SHOWN
X191–X196	BODY	8000.0-03	X878–X888	BODY	8000.0-03
X197	BODY	8000.0-04	X942	PASSENGER'S DOOR	8000.0-04
X203–X223	BODY	8000.0-03	X985	IHKS	8000.0-03
X228	BODY	8000.0-04	X1015–X1019	BODY	8000.0-03
X245–X246	BODY	8000.0-03	X1022–X1047	BODY	8000.0-03
X443	BODY	8000.0-03	X1055	BODY	8000.0-04
X444	BODY	8000.0-04	X1066–X1079	BODY	8000.0-03
X445	BODY	8000.0-03	X1091	BODY	8000.0-04
X449	BODY	8000.0-04	X1100–X1115	BODY	8000.0-03
X450	BODY	8000.0-03	X1149	BODY	8000.0-03
X453–X460	BODY	8000.0-04	X1152–X1164	BODY	8000.0-03
X461	BODY	8000.0-03	X1167	BODY	8000.0-04
X462–X465	BODY	8000.0-04	X1168–X1169	BODY	8000.0-03
X470	BODY	8000.0-03	X1182	BODY	8000.0-04
X530	BODY	8000.0-03	X1186	BODY	8000.0-03
X576–X595	BODY	8000.0-03	X1214	BODY	8000.0-03
X697–X699	BODY	8000.0-03	X1225	BODY	8000.0-04
X805	BODY	8000.0-04	X1234–X1235	BODY	8000.0-04
X806	BODY	8000.0-03	X1236	BODY	8000.0-03
X814–X818	IHKS	8000.0-03	X1258	BODY	8000.0-03
X824–X830	RADIO/HIFI/CD	NOT SHOWN	X1263	BODY	8000.0-04



SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER			
X1264	BODY	8000.0-03	X6832–X6836	M52 ENGINE (Z3 VERSIONS)	8000.0-05
X1280	BODY	8000.0-03	X6863–X6868	M52 ENGINE (M VERSIONS)	8000.0-06
X1403	BODY	8000.0-03	X6900	M52 ENGINE (Z3 VERSIONS)	8000.0-05
X1429–X1435	IHKS	8000.0-03	X6949	BODY	8000.0-03
X1541–X1542	BODY	8000.0-03	X6960–X6965	M52 ENGINE (Z3 VERSIONS)	8000.0-05
X1608	BODY	8000.0-04	X8000–X8015	M52 ENGINE (M VERSIONS)	8000.0-06
X1610–X1616	BODY	8000.0-03	X8071–X8074	M52 ENGINE (M VERSIONS)	8000.0-06
X1617–X1618	BODY	8000.0-04	X8073	M52 ENGINE (Z3 VERSIONS)	8000.0-05
X1620–X1625	BODY	8000.0-03	X8103	M52 ENGINE (M VERSIONS)	8000.0-06
X1682	BODY	8000.0-03	X8564–X8565	M52 ENGINE (Z3 VERSIONS)	8000.0-05
X1893–X1894	BODY	8000.0-03	X9430	BODY	8000.0-03
X2229–X2233	BODY	8000.0-03	X9454	BODY	8000.0-03
X6411–X6415	M52 ENGINE (M VERSIONS)	8000.0-06	X9992–X9993	DRIVER'S SEAT	NOT SHOWN
X6420	M52 ENGINE (M VERSIONS)	8000.0-06	X9996–X9997	PASSENGER'S SEAT	NOT SHOWN
X6458	M52 ENGINE (Z3 VERSIONS)	8000.0-05	X10008	BODY	8000.0-03
X6458–X6460	M52 ENGINE (M VERSIONS)	8000.0-06	X10009	BODY (Z3 VERSIONS)	8000.0-03
X6460	M52 ENGINE (Z3 VERSIONS)	8000.0-05	X10009	BODY (M VERSIONS)	8000.0-04
X6475	M52 ENGINE (M VERSIONS)	8000.0-06	X10014–X10055	BODY	8000.0-03
X6492	M52 ENGINE (M VERSIONS)	8000.0-06	X10064	BODY	8000.0-04
X6810	M52 ENGINE (M VERSIONS)	8000.0-06	X10100–X10126	BODY	8000.0-03
X6821–X6822	M52 ENGINE (M VERSIONS)	8000.0-06	X10185–X10189	BODY	8000.0-03
X6830–X6835	M52 ENGINE (M VERSIONS)	8000.0-06	X10251–X10252	BODY	8000.0-03
X6849	M52 ENGINE (M VERSIONS)	8000.0-06	X10468–X10469	BODY	8000.0-03



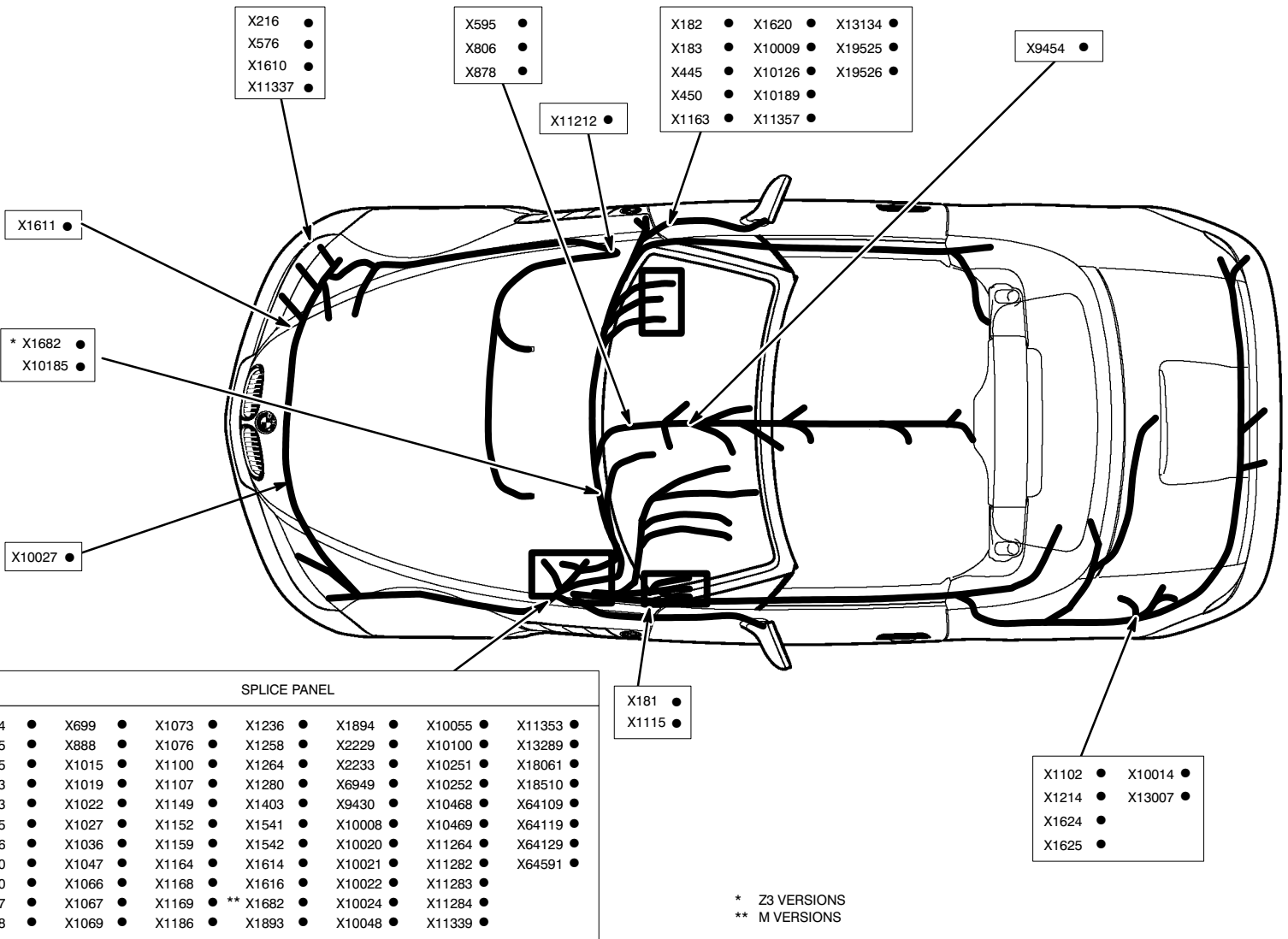
SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER
X11212	BODY	8000.0-03
X11264–X11284	BODY	8000.0-03
X11291	BODY	8000.0-04
X11337–X11353	BODY	8000.0-03
X11355	BODY	8000.0-04
X11357	BODY	8000.0-03
X13007	BODY	8000.0-03
X13011–X13047	BODY	8000.0-04
X13134	BODY	8000.0-03
X13289	BODY	8000.0-03
X18061	BODY	8000.0-03
X18510	BODY	8000.0-03
X19513	RADIO/HIFI/CD	NOT SHOWN
X19002–X19004	BODY	8000.0-04
X19525–X19526	BODY	8000.0-03
X64109	BODY	8000.0-03
X64119	BODY	8000.0-03
X64129	BODY	8000.0-03
X64591	BODY (Z3 VERSIONS)	8000.0-03
X64591	BODY (M VERSIONS)	8000.0-04
X68309	IHKS	8000.0-03



SPLICE LOCATION VIEWS

BODY HARNESS

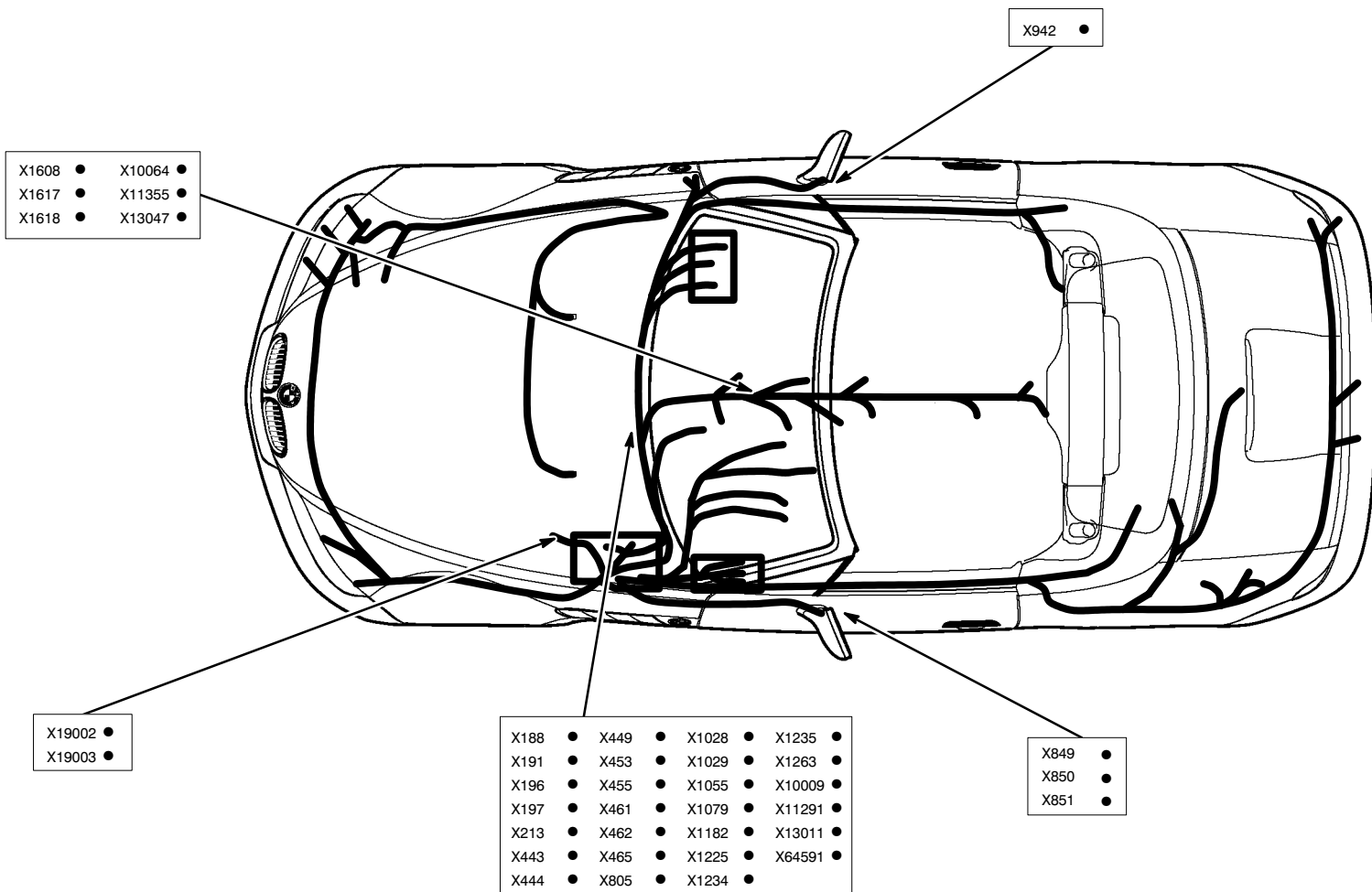


* Z3 VERSIONS
** M VERSIONS



SPLICE LOCATION VIEWS

BODY HARNESS

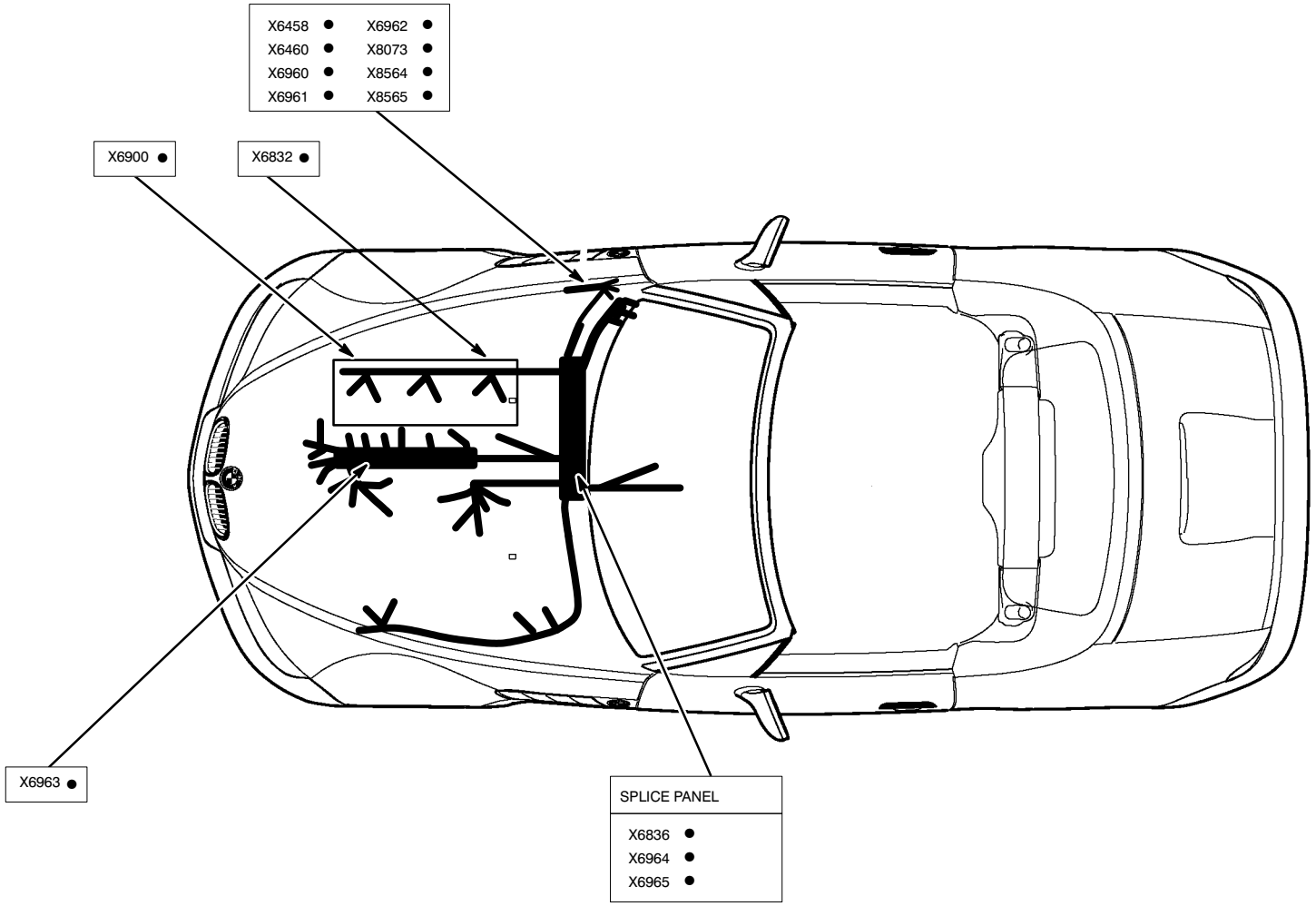




SPLICE LOCATION VIEWS

ENGINE HARNESS M52

Z3 VERSIONS



09/98

8000.0-05

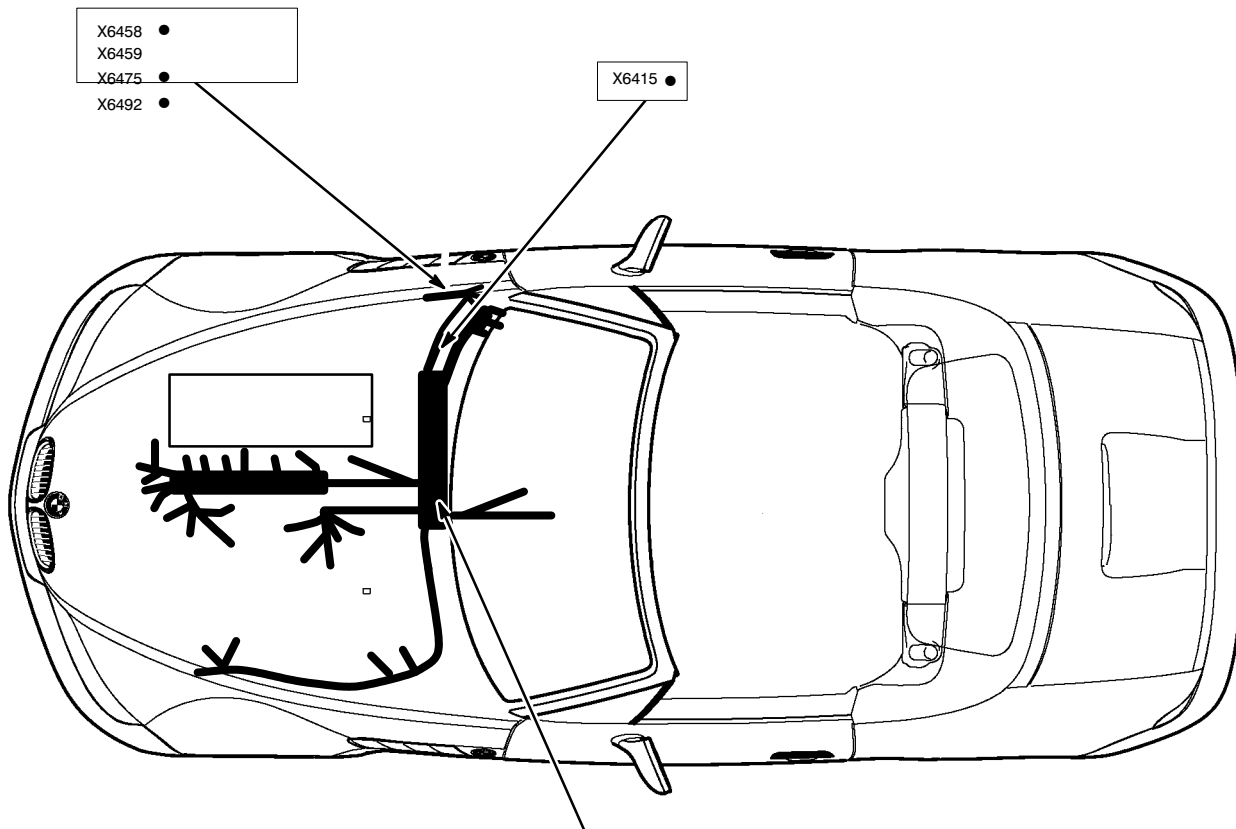
1999



SPLICE LOCATION VIEWS

ENGINE HARNESS M52

M VERSIONS



- X6458 ●
- X6459 ●
- X6475 ●
- X6492 ●

- X6415 ●

SPLICE PANEL			
X6411 ●	X6821 ●	X6867 ●	X8051 ●
X6412 ●	X6822 ●	X6868 ●	X8071 ●
X6413 ●	X6830 ●	X8000 ●	X8072 ●
X6414 ●	X6832 ●	X8004 ●	X8074 ●
X6420 ●	X6835 ●	X8010 ●	X8103 ●
X6460 ●	X6849 ●	X8015 ●	
X6810 ●	X6863 ●	X8038 ●	

FIG. 1

B880001.00

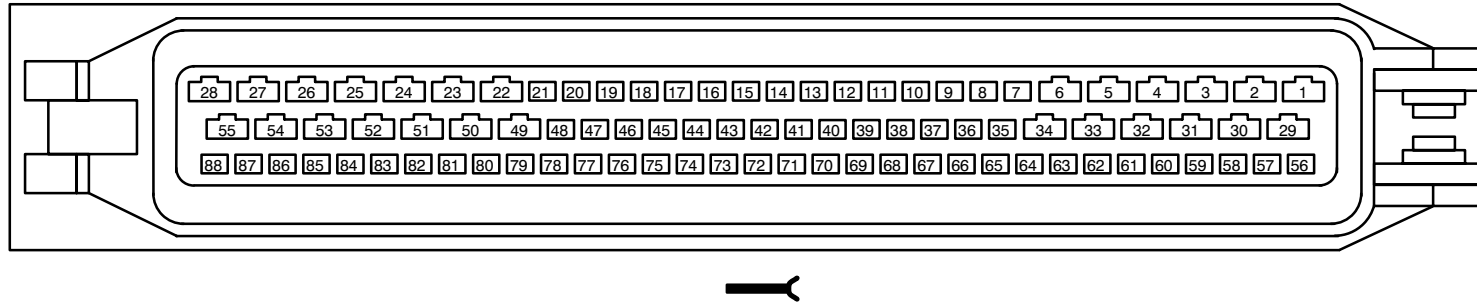


FIG. 2

B040030.00

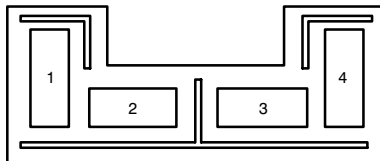
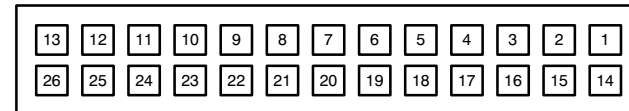


FIG. 3

B260005.00



CONNECTOR VIEWS

FIG. 1

B030024

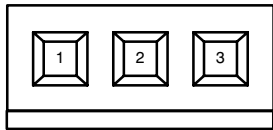


FIG. 2

B030046.00

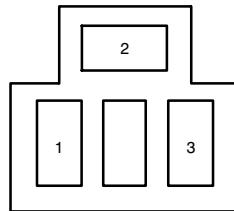


FIG. 3

B120001.01

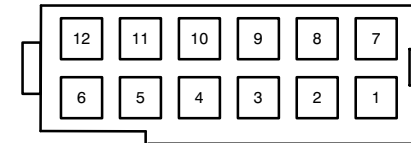


FIG. 4

B090008.00



FIG. 5

B120002.02

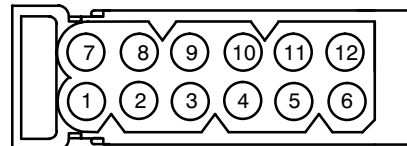
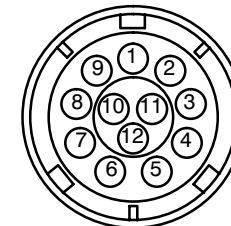


FIG. 6

B120015





Z3

CONNECTOR VIEWS

FIG. 1

B080002.00

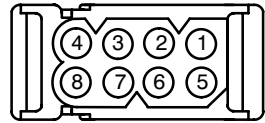


FIG. 2

B170001.00

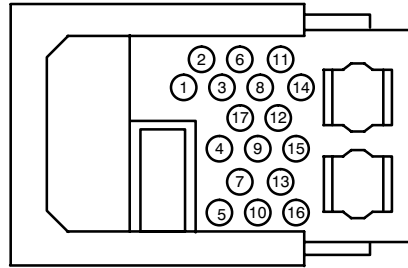


FIG. 3

B100008.00

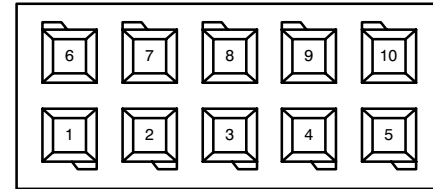


FIG. 4

B120004.01

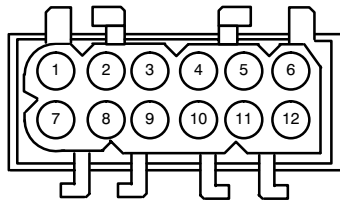


FIG. 5

B030004.01

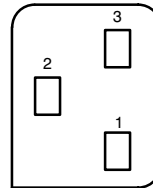


FIG. 6

B050003.00

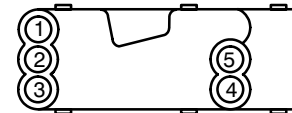


FIG. 1

B040004.00

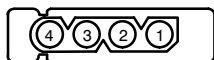


FIG. 2

B520001.00

52	51	50	49	48	47	46	45	44	43	42	41	40
39	38	37	36	35	34	33	32	31	30	29	28	27
26	25	24	23	22	21	20	19	18	17	16	15	14
13	12	11	10	9	8	7	6	5	4	3	2	1



FIG. 3

B080001.00

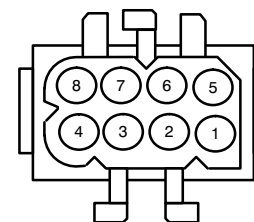


FIG. 4

B090002.00

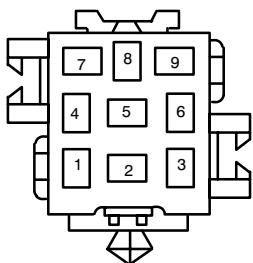


FIG. 5

B260002.01

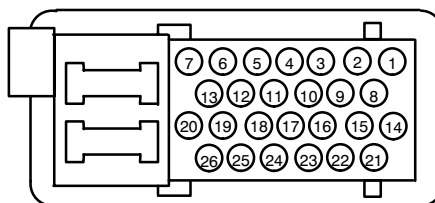
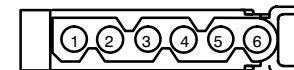


FIG. 6

B060001.02



CONNECTOR VIEWS

FIG. 1

B200003.00

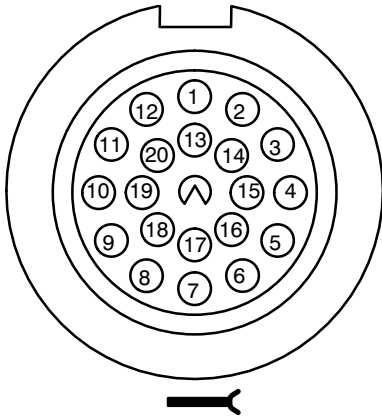


FIG. 2

B240002.00

24	23	22	21	20	19
18	17	16	15	14	13
12	11	10	9	8	7
6	5	4	3	2	1



FIG. 3

B030003.00

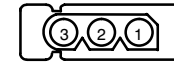


FIG. 4

B250001.02

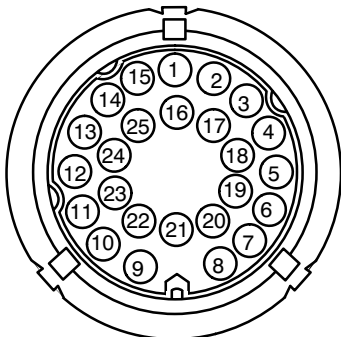


FIG. 5

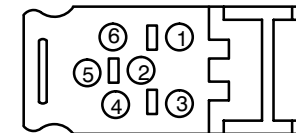
B060019.03

3	2	1
6	5	4



FIG. 6

B060036.00





CONNECTOR VIEWS

FIG. 1

B150002.00

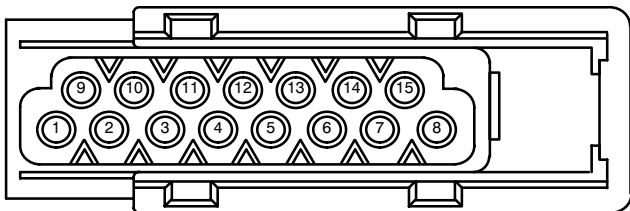


FIG. 2

B100014.00

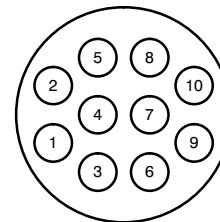


FIG. 3

B060038.00

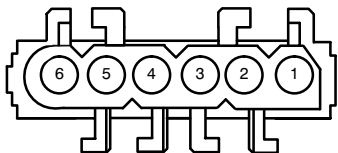


FIG. 4

B040027.00

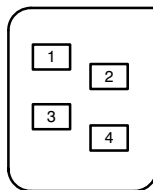
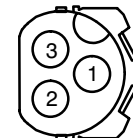


FIG. 5

B030006.00



CONNECTOR VIEWS

FIG. 1

B0400028.00

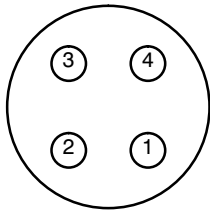


FIG. 2

B080020.00

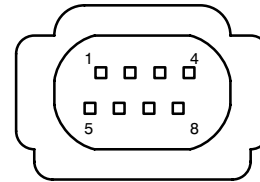


FIG. 3

B0300044.00

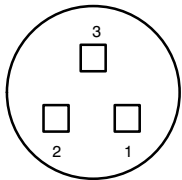


FIG. 4

B030049.00

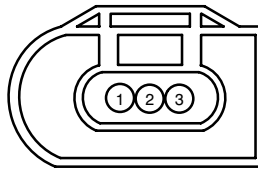


FIG. 5

B060041.00

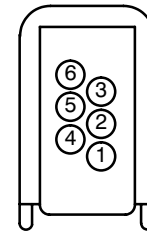


FIG. 1

B040026

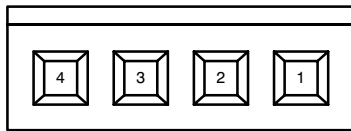


FIG. 2

B120006.00

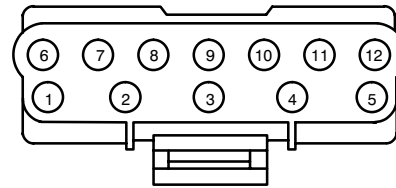


FIG. 3

B180000.00

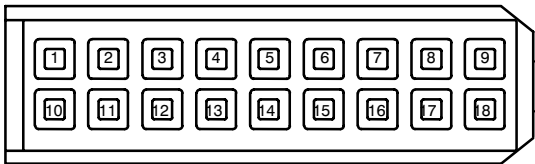


FIG. 4

B060037.00

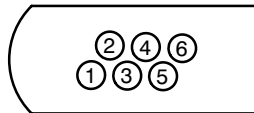
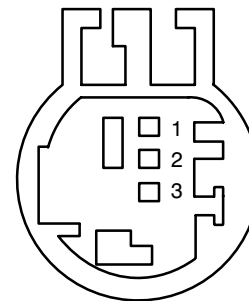


FIG. 5

B030042.00





Z3

CONNECTOR VIEWS

FIG. 1

B160002.00

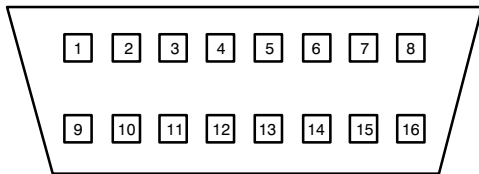


FIG. 2

B060013.00

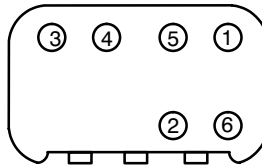


FIG. 3

B080013.00

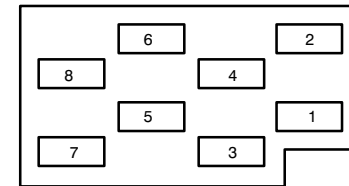
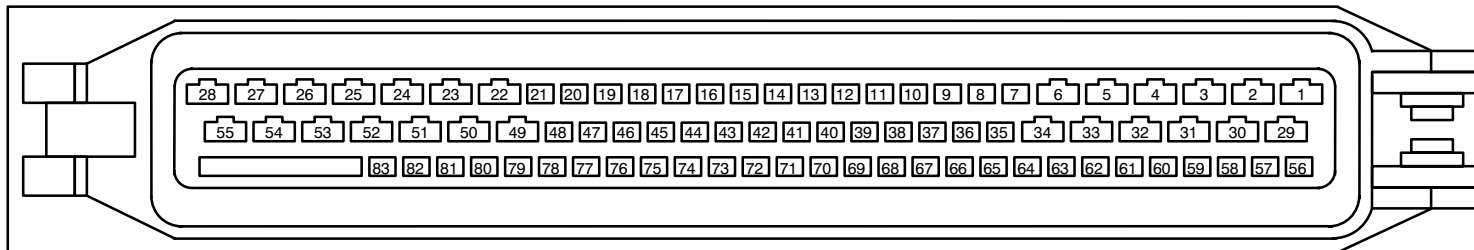


FIG. 4

B830001.00



CONNECTOR VIEWS

FIG. 1

B400000.00

31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10



FIG. 2

B060043.00

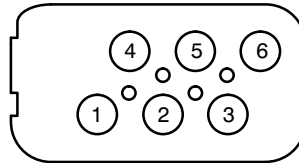


FIG. 3

B070012.00

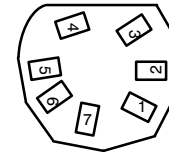


FIG. 4

B250004.00

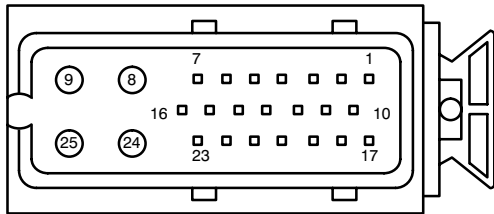
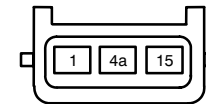


FIG. 5

B030015.08



CONNECTOR VIEWS

FIG. 1

B030048a

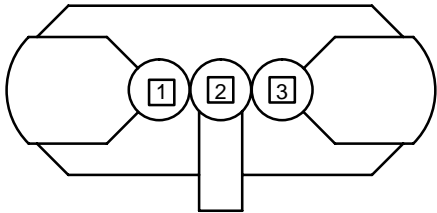


FIG. 2

B030018.02

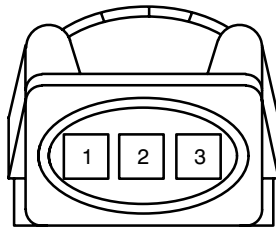


FIG. 3

B040023.02

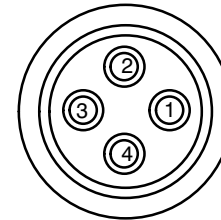


FIG. 4

B040023.01

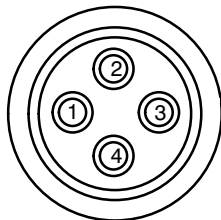
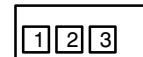


FIG. 5

B030036.01



CONNECTOR VIEWS

FIG. 1

B030022.00

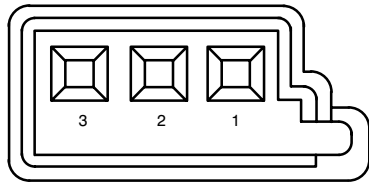


FIG. 2

B500000.00

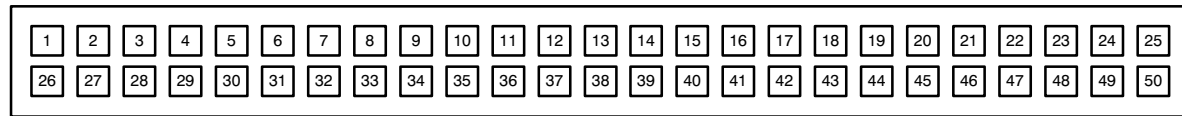


FIG. 3

B060042

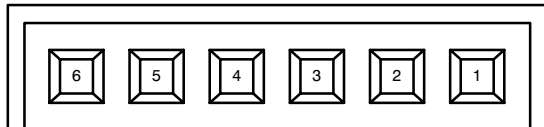


FIG. 4

B160001.00

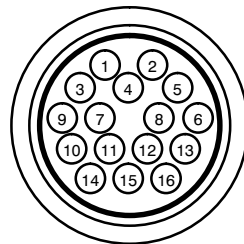


FIG. 5

B100004.02

