

1998

**BMW
Z3 M Roadster
(E36/7)**

Electrical

**Troubleshooting
Manual**

Z3 produced 2/98 thru Present



ELECTRICAL TROUBLESHOOTING MANUAL

SERIES 3 – E36/7 (Z3 M Roadster)

This brochure contains the schematics for the E36/7 Z3 M Roadster. In conjunction with the Electrical Troubleshooting Manual Series 3 – E36/7 model year 1998 (Part Number 01 00 1 470 217) this enables diagnosis of all electrical/electronic systems.

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MODEL YEAR 1998

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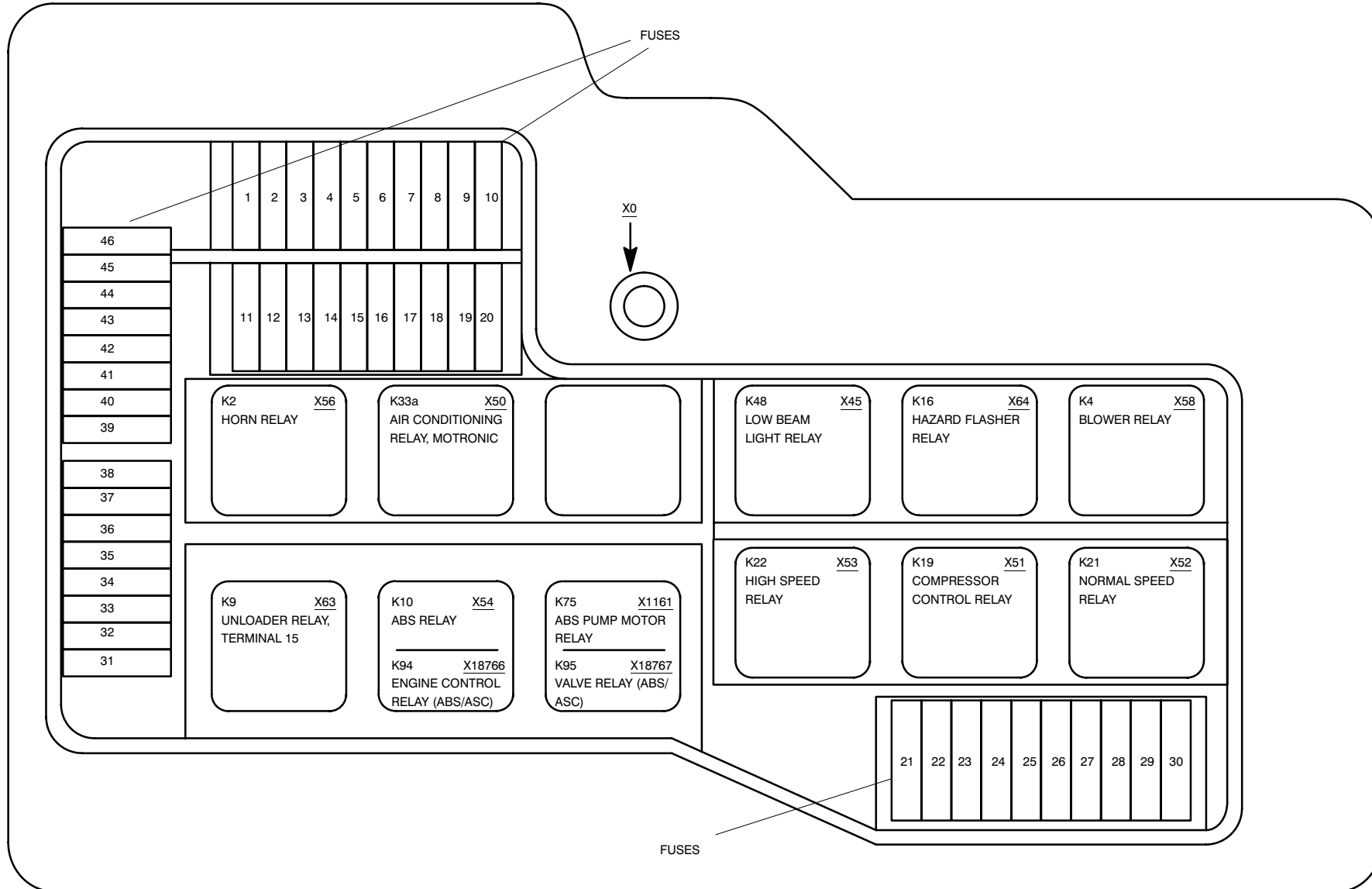
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POWER DISTRIBUTION CHART

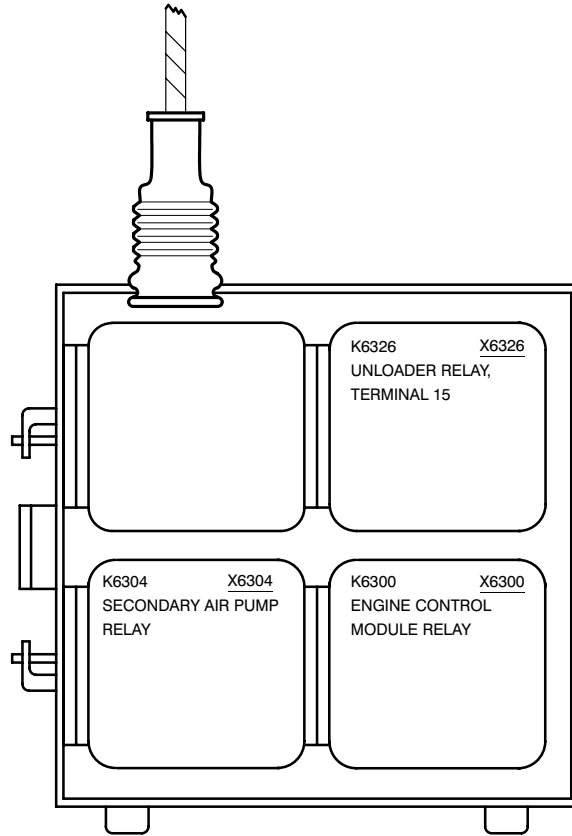
FRONT POWER DISTRIBUTION BOX





POWER DISTRIBUTION CHART

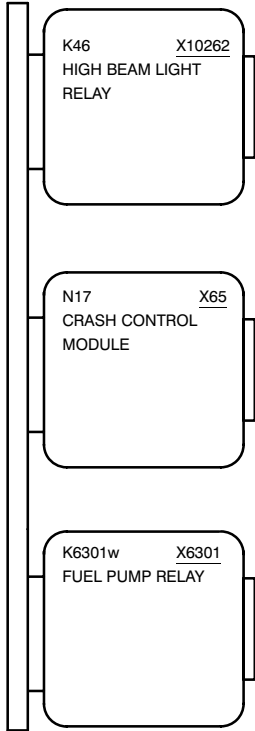
IN E-BOX





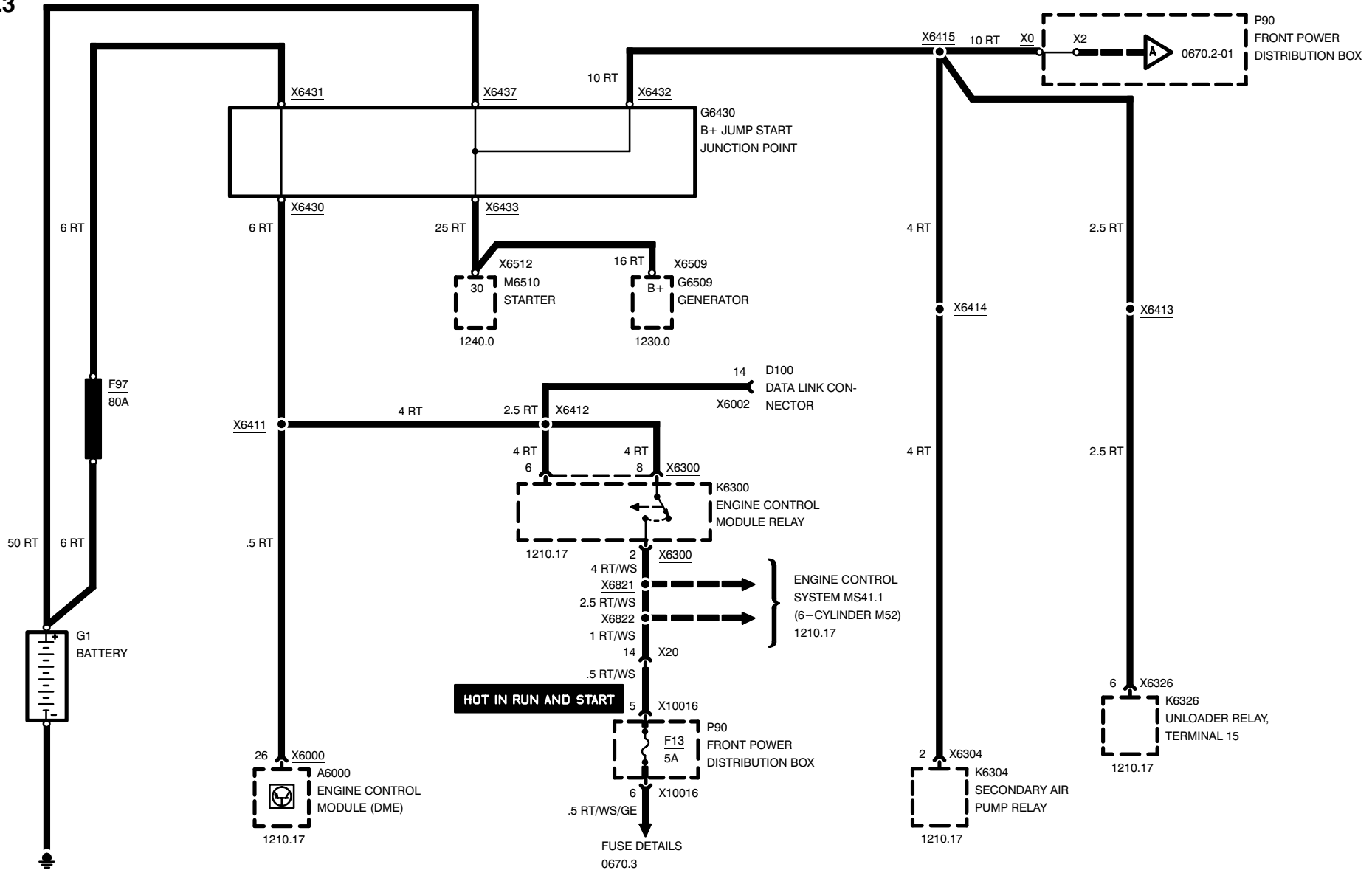
POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD





POWER DISTRIBUTION

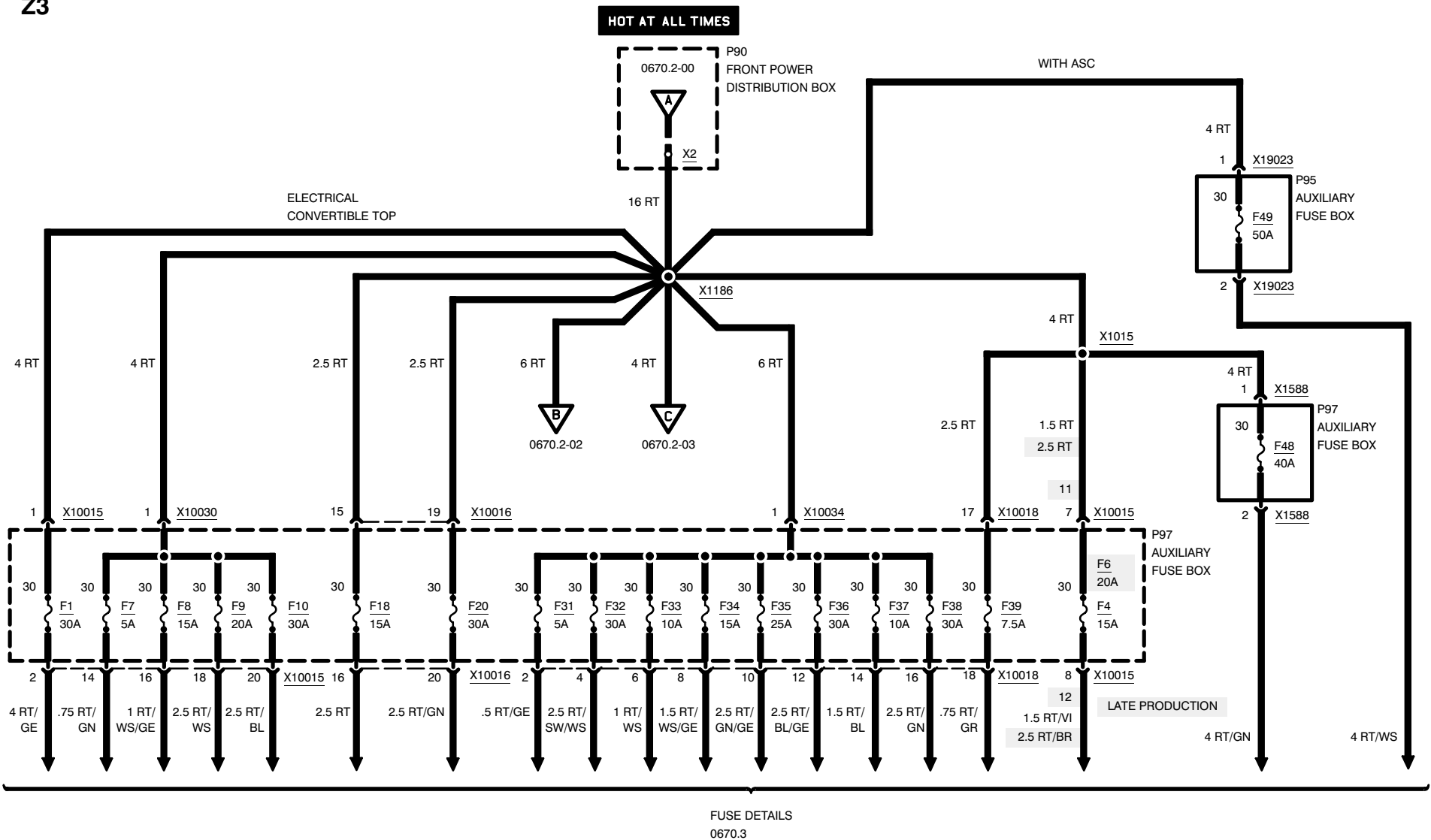


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POWER DISTRIBUTION

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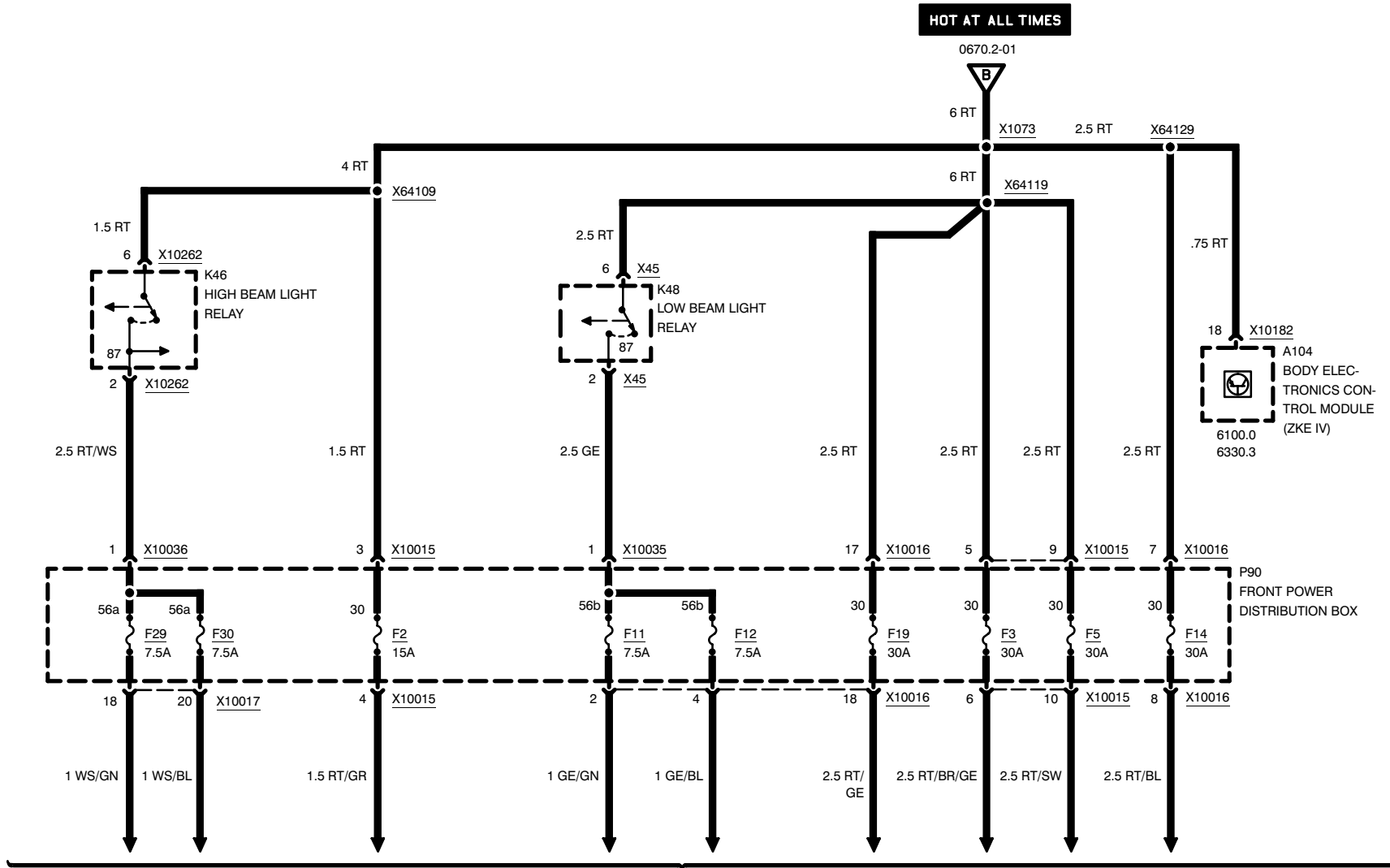


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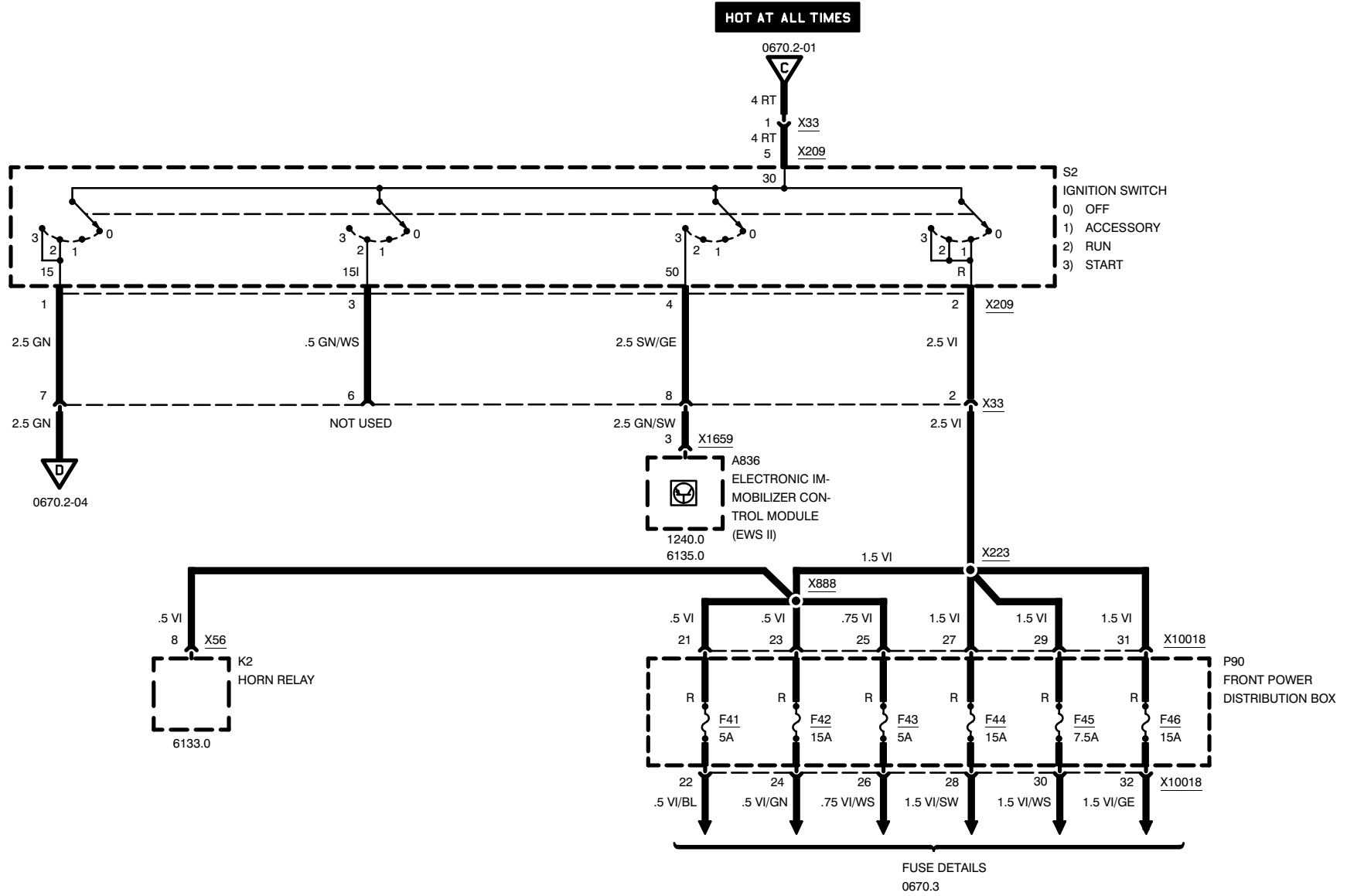
POWER DISTRIBUTION



FUSE DETAILS
0670.3

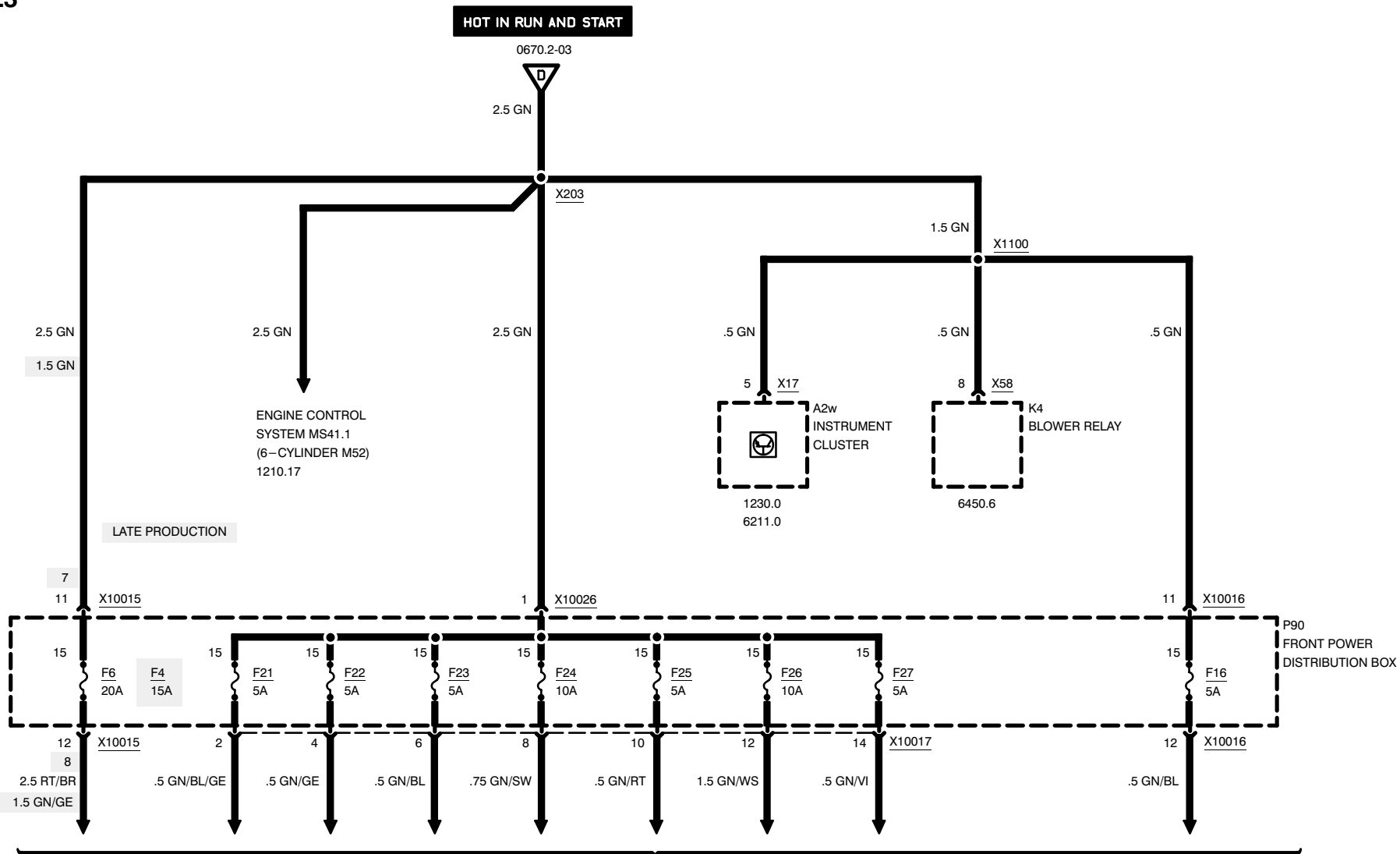


POWER DISTRIBUTION





POWER DISTRIBUTION



FUSE DETAILS
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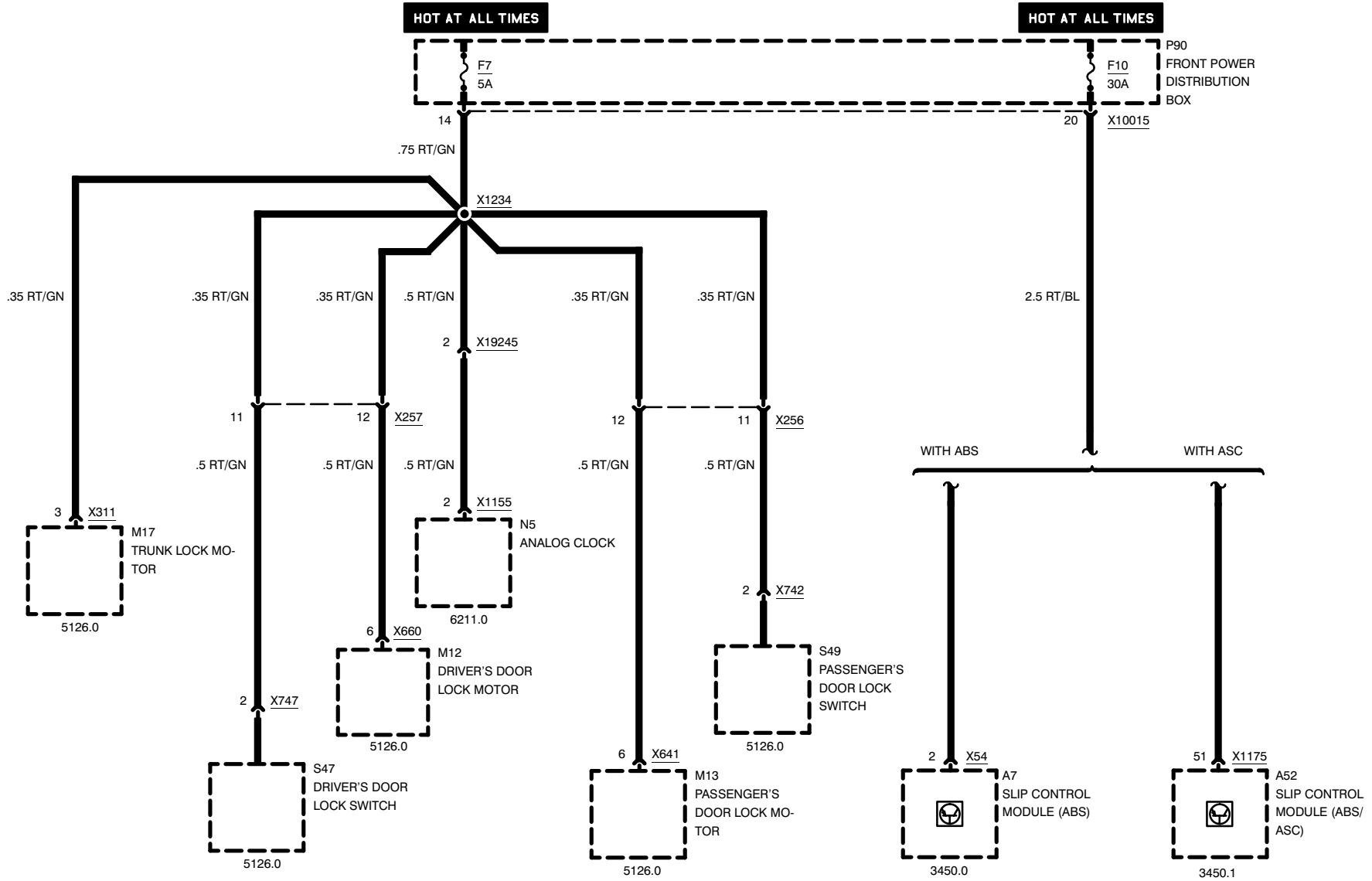
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FUSE DETAILS

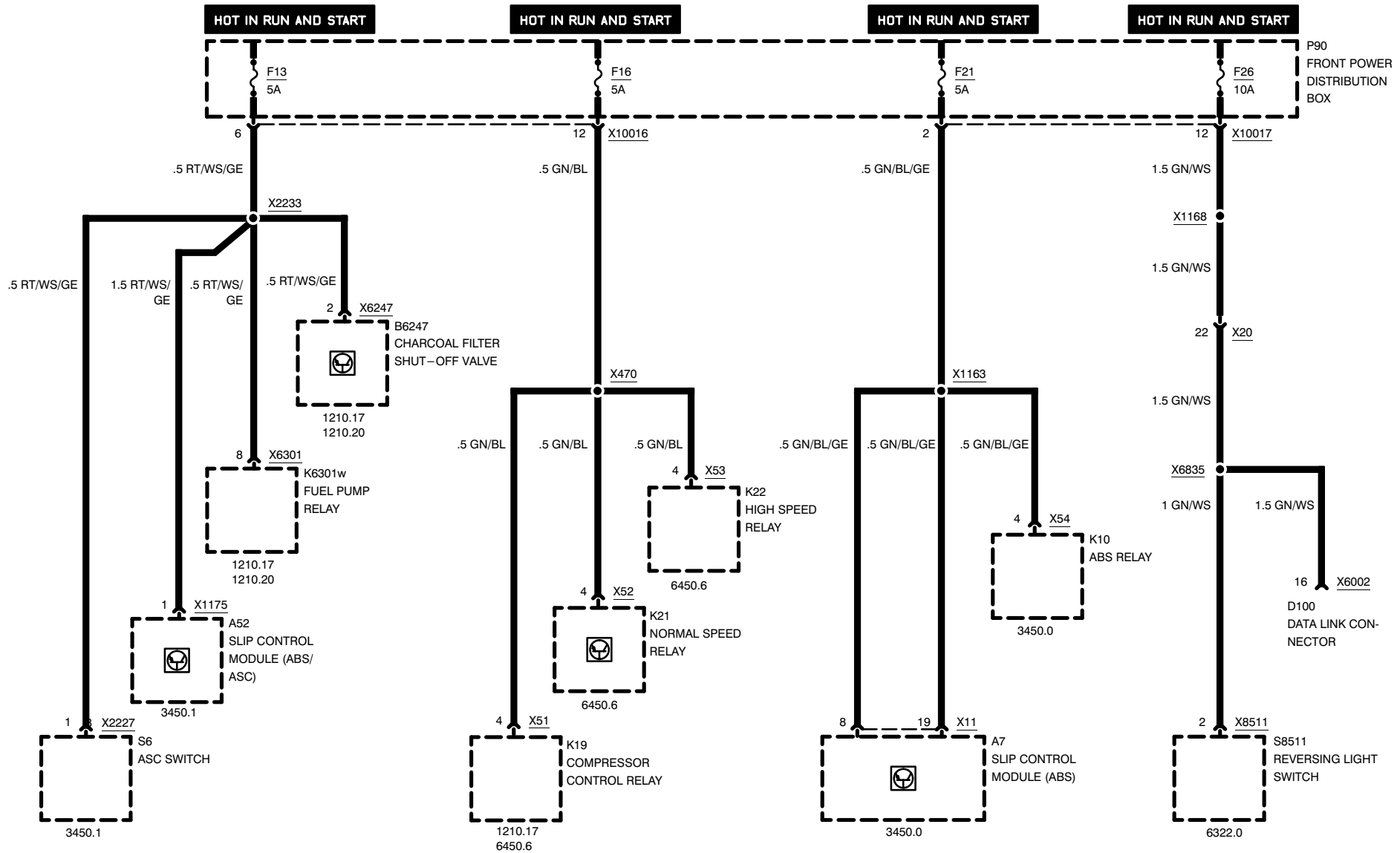
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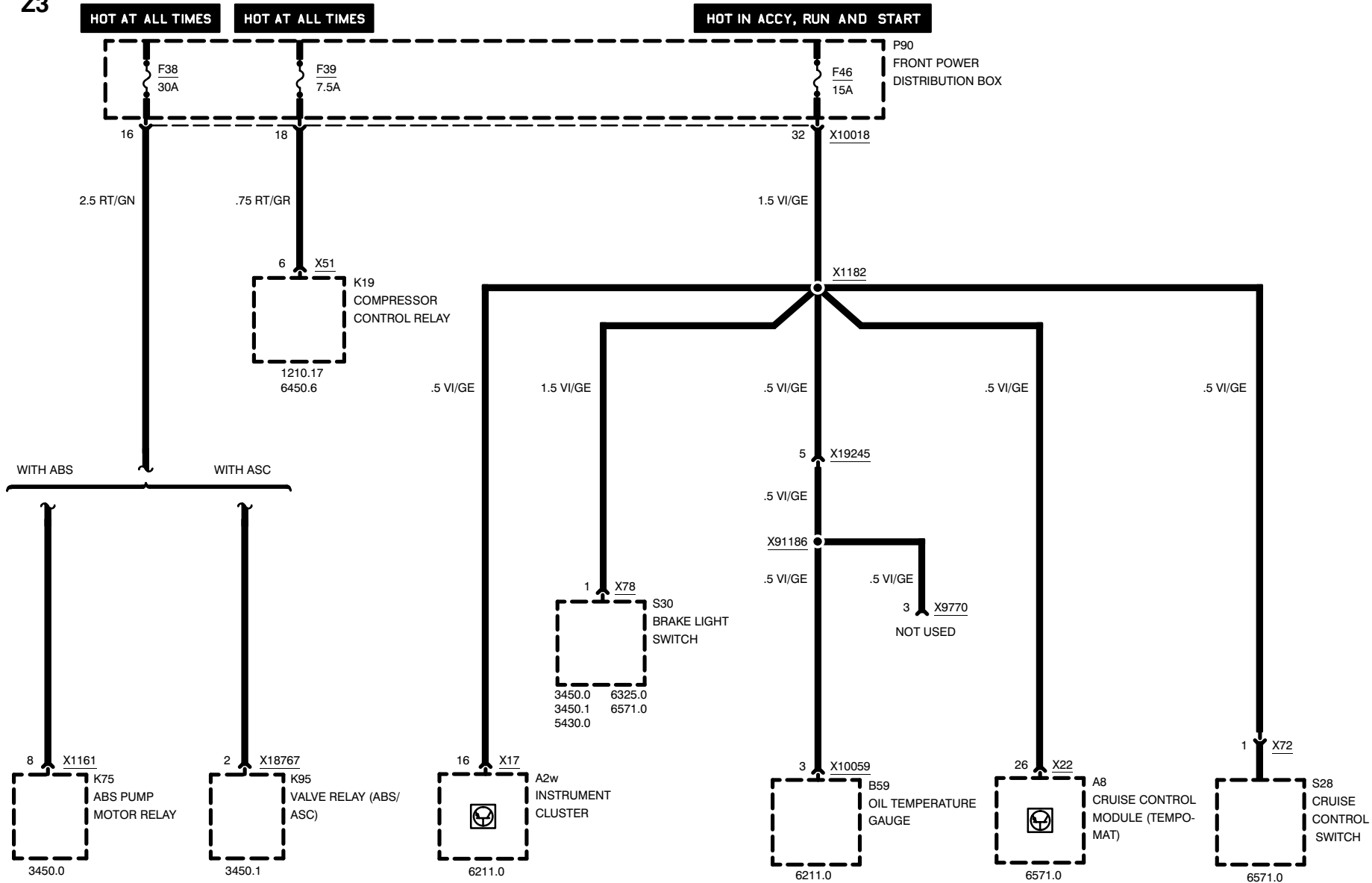




FUSE DETAILS

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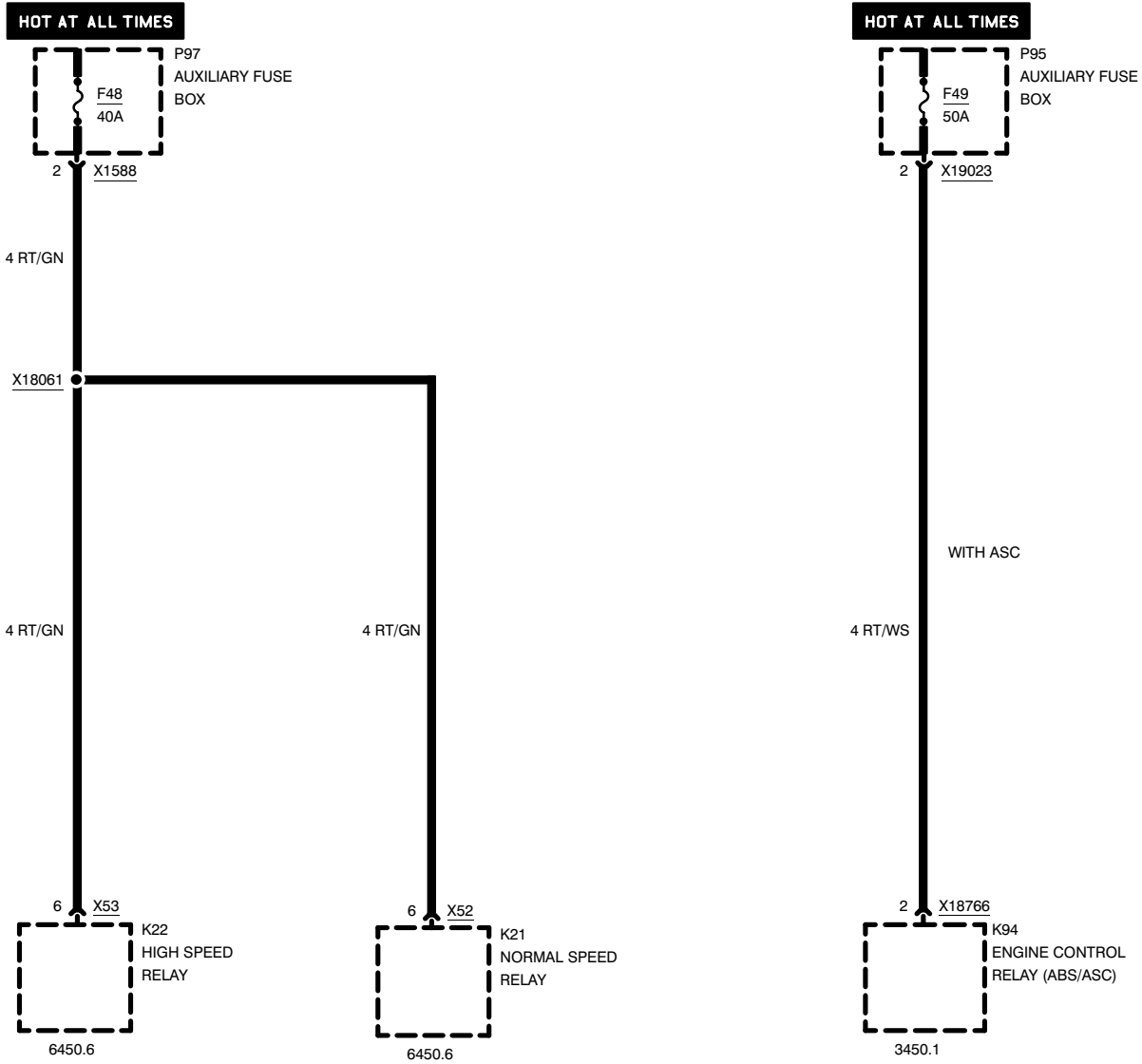
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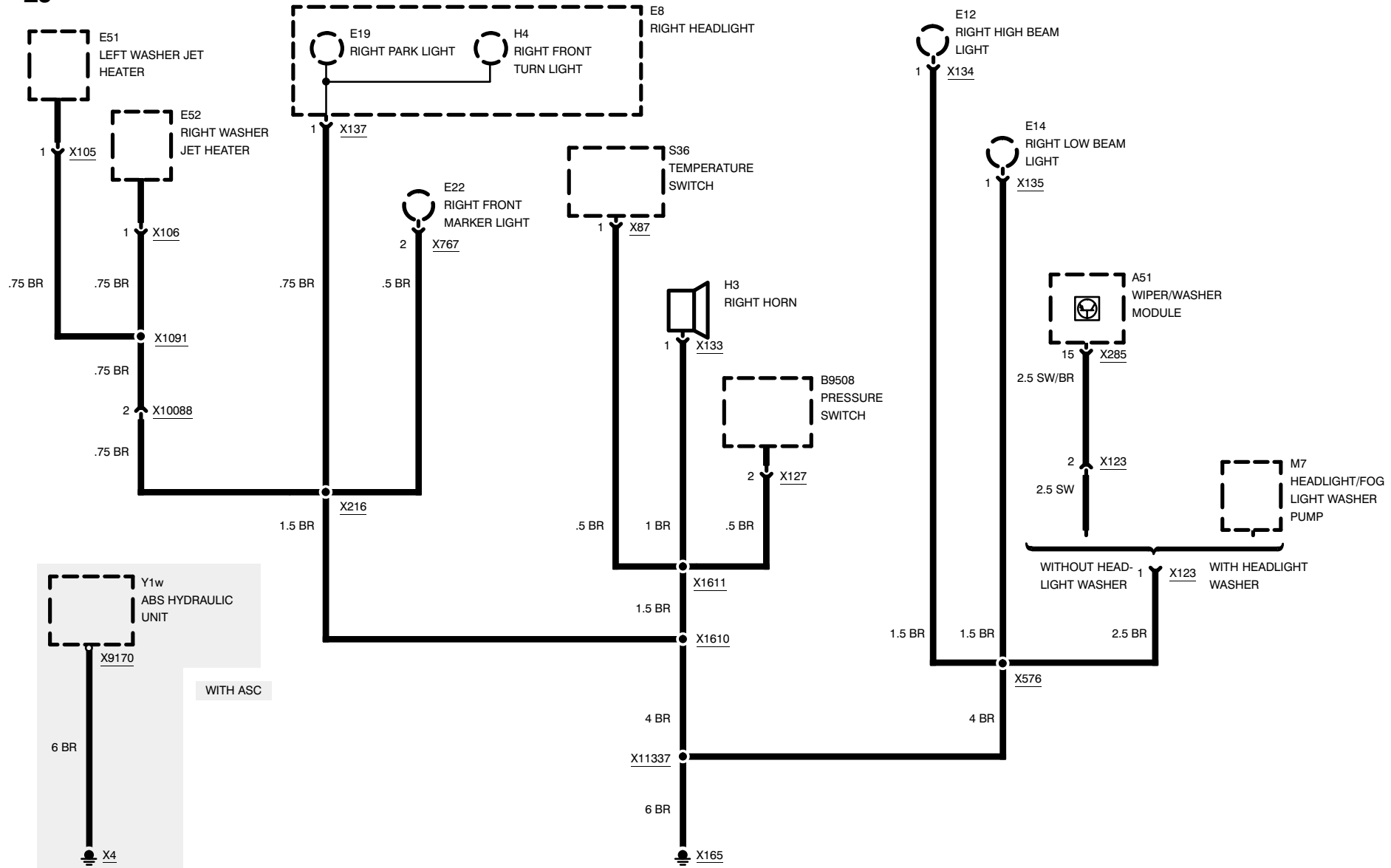




GROUND DISTRIBUTION

GROUNDS X4 AND X165

Z3



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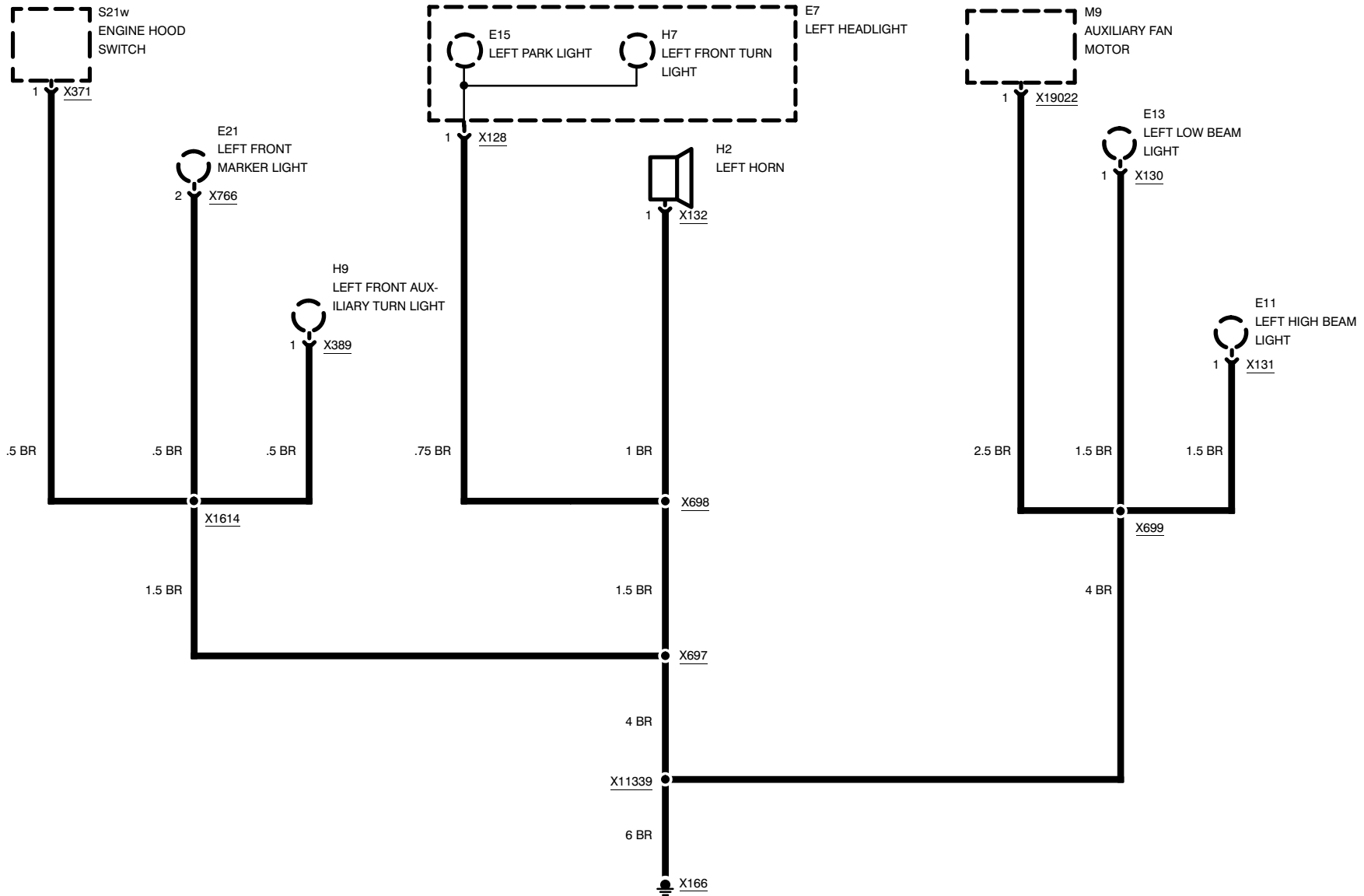
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GROUND DISTRIBUTION

GROUND X166



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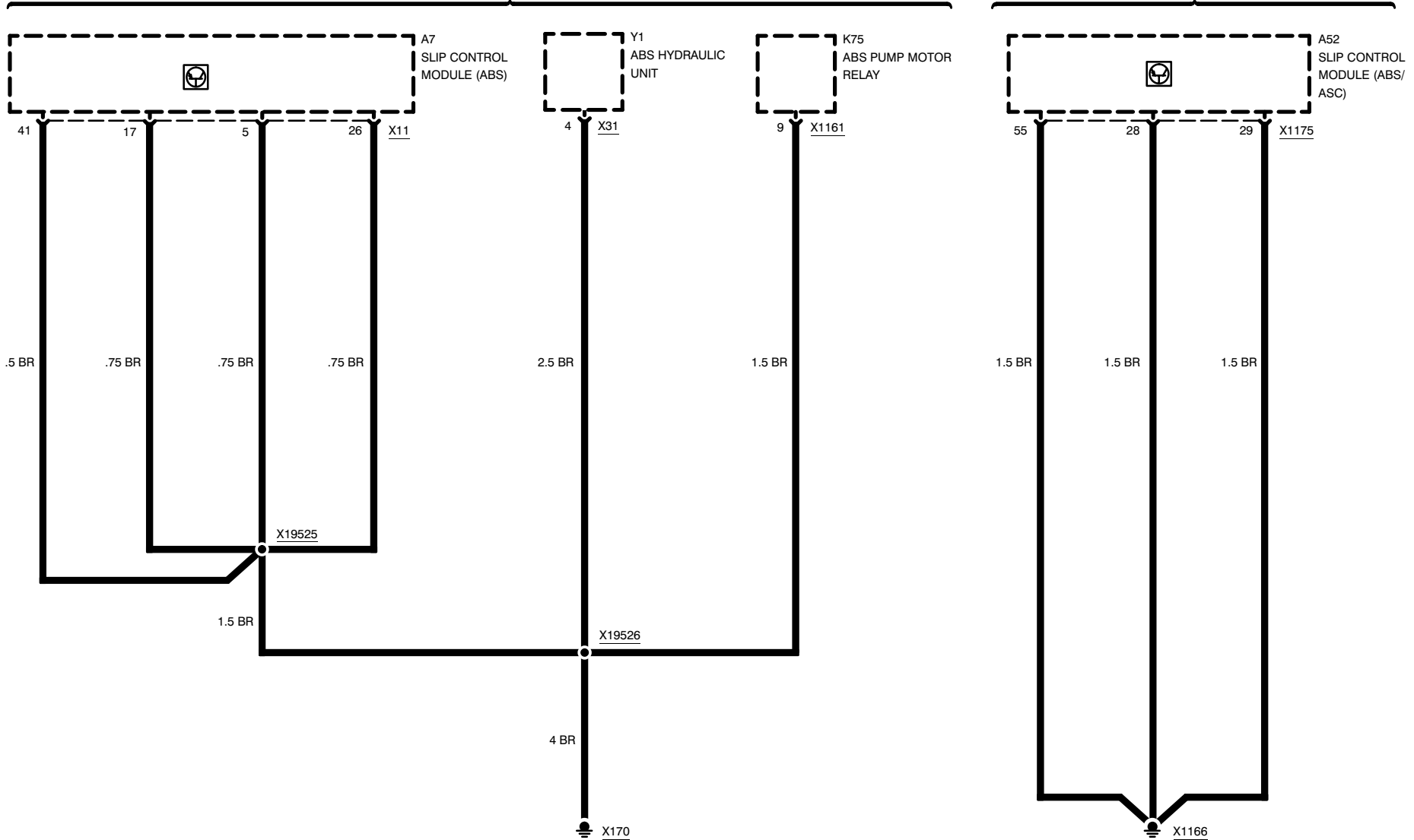


GROUND DISTRIBUTION

GROUNDS X170 AND X1166

WITH ABS

WITH ASC

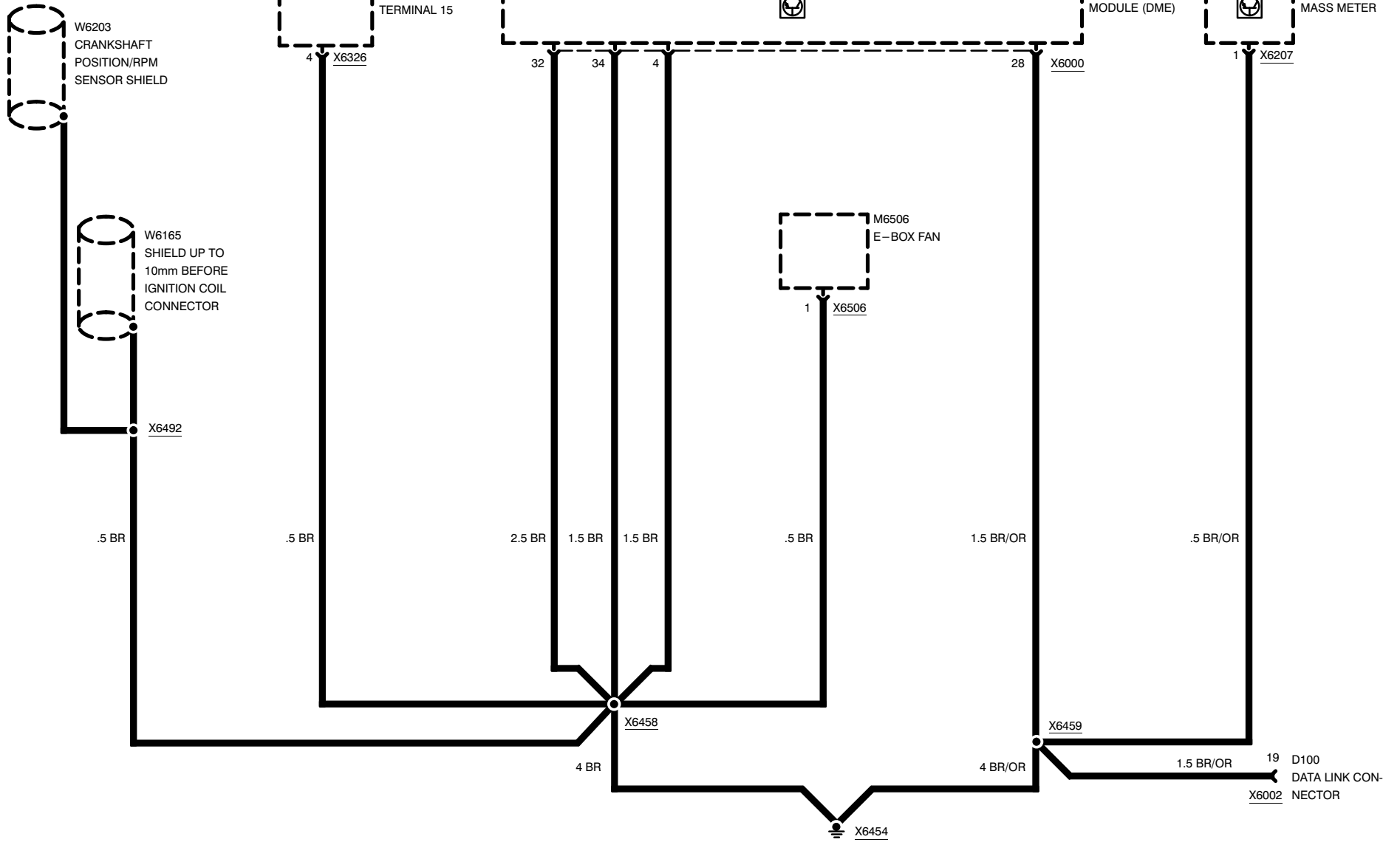




GROUND DISTRIBUTION

GROUND X6454

Z3



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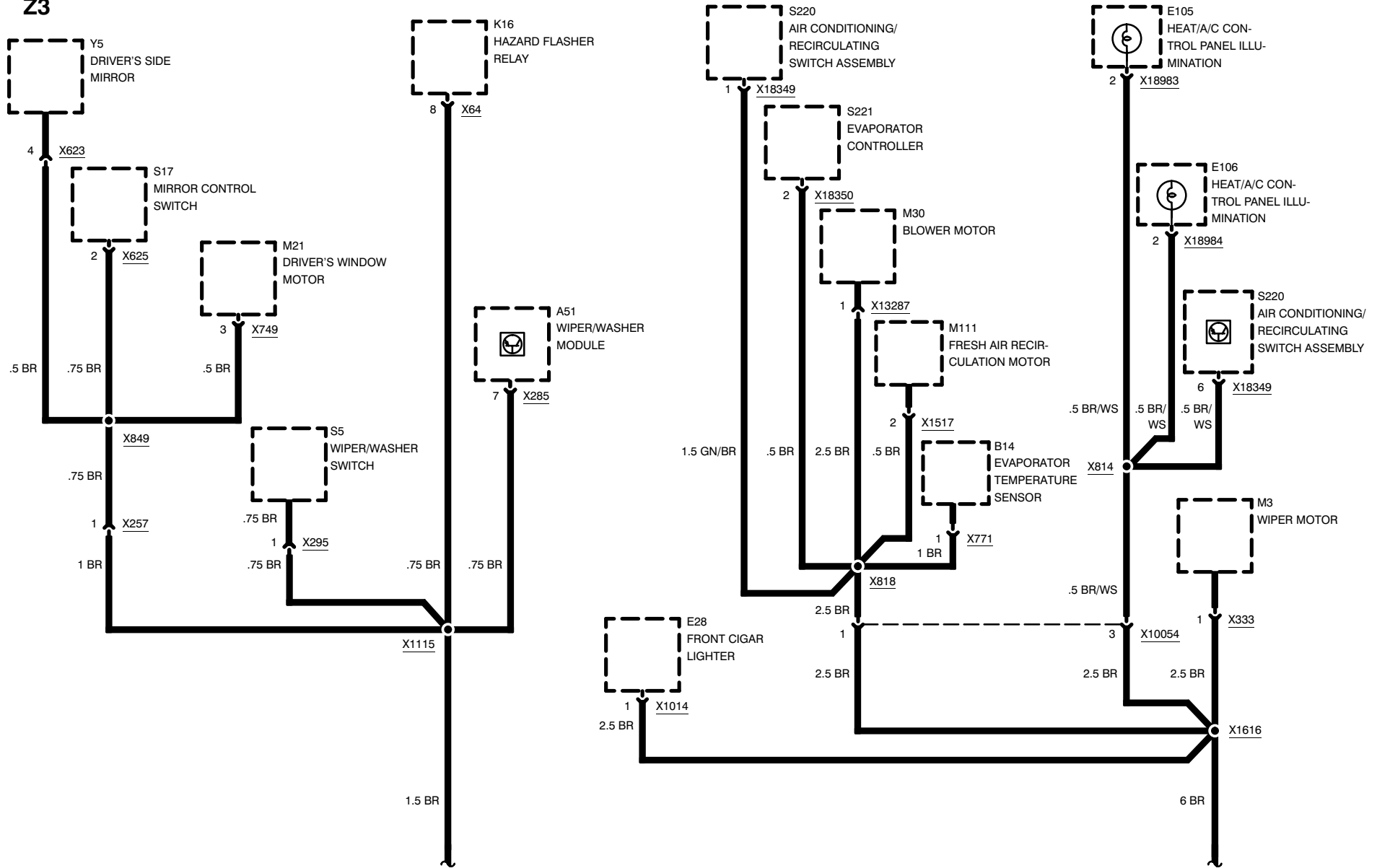
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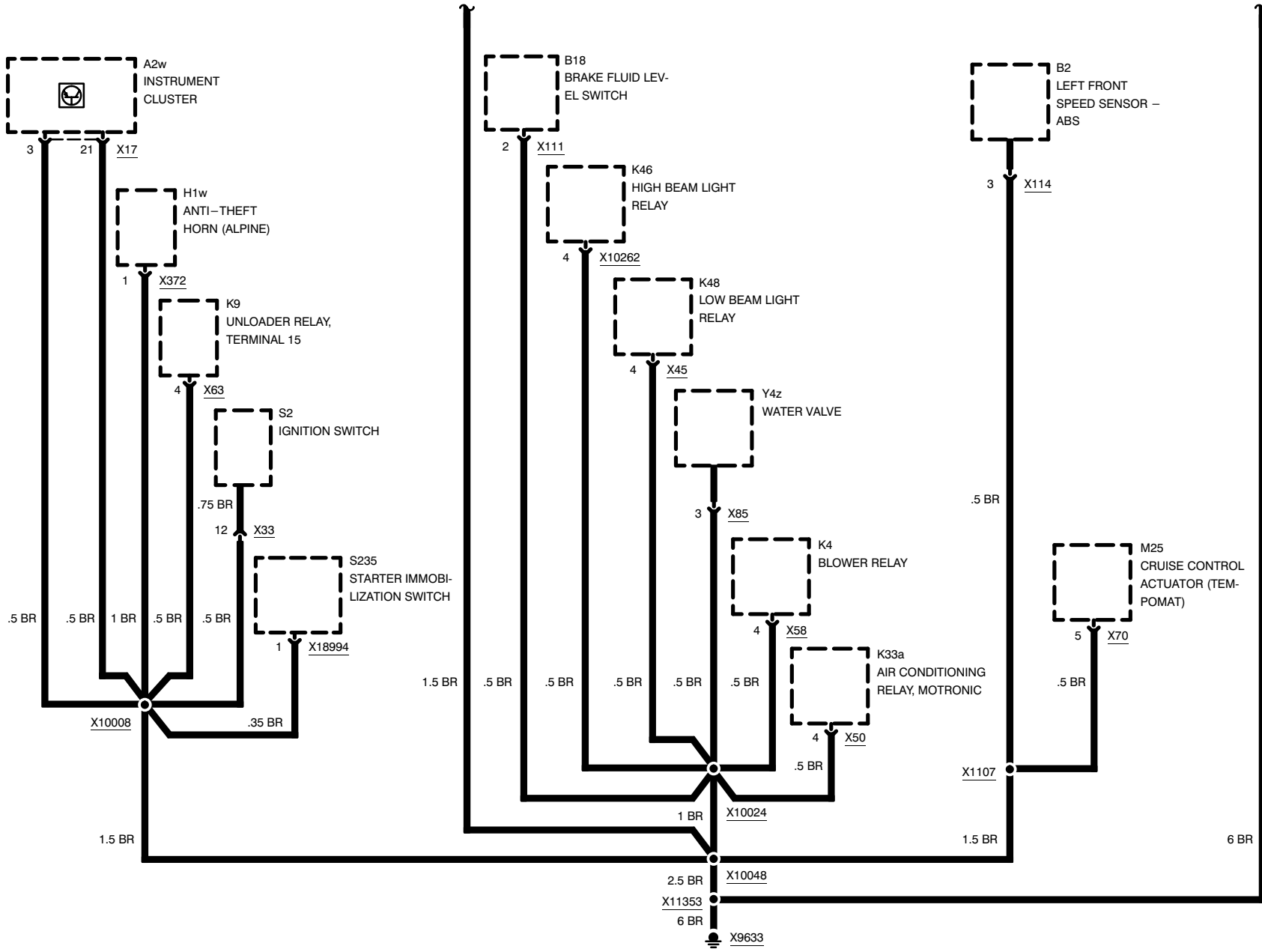


GROUND DISTRIBUTION

GROUND X9633

Z3



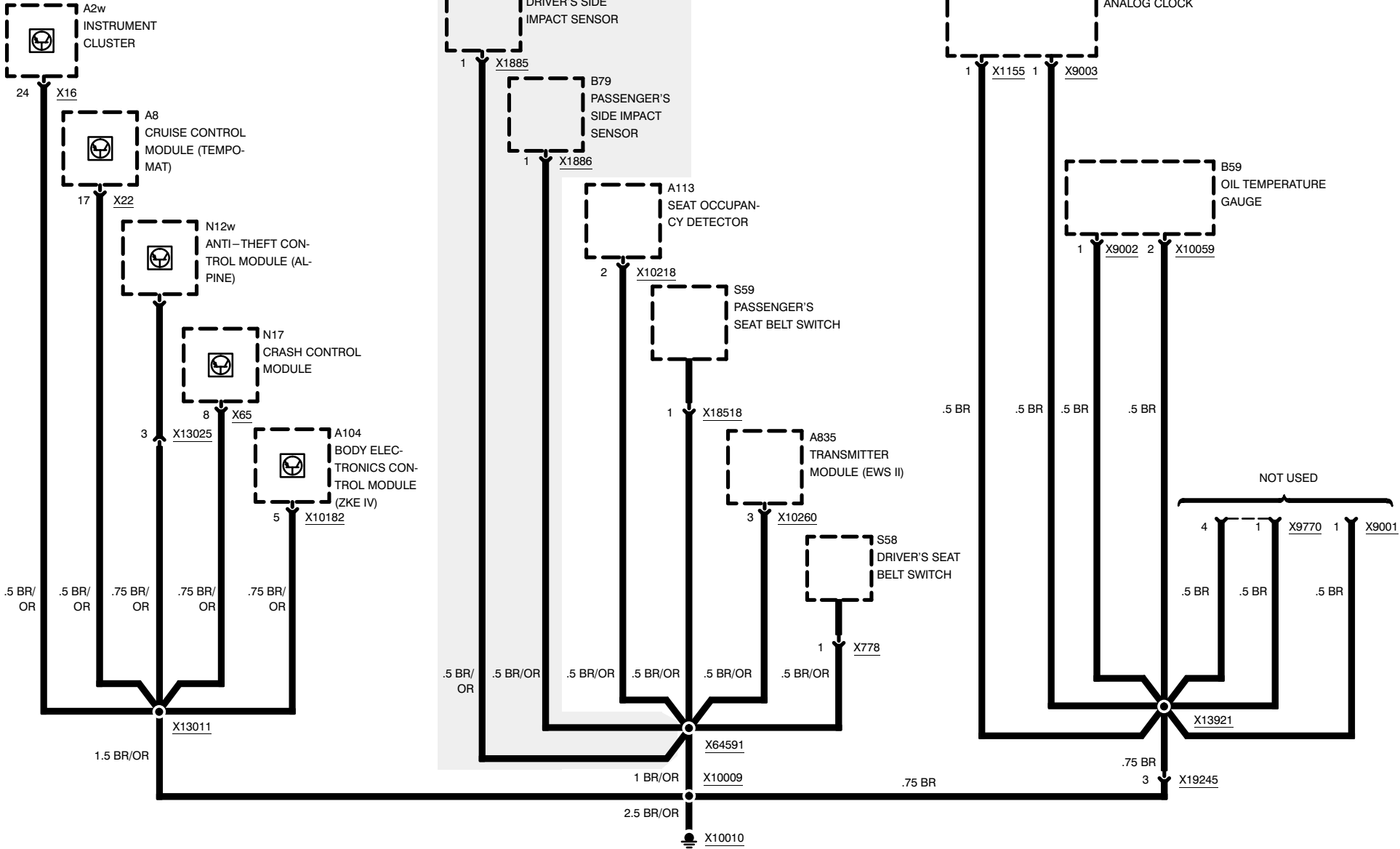




GROUND DISTRIBUTION

GROUND X10010

Z3



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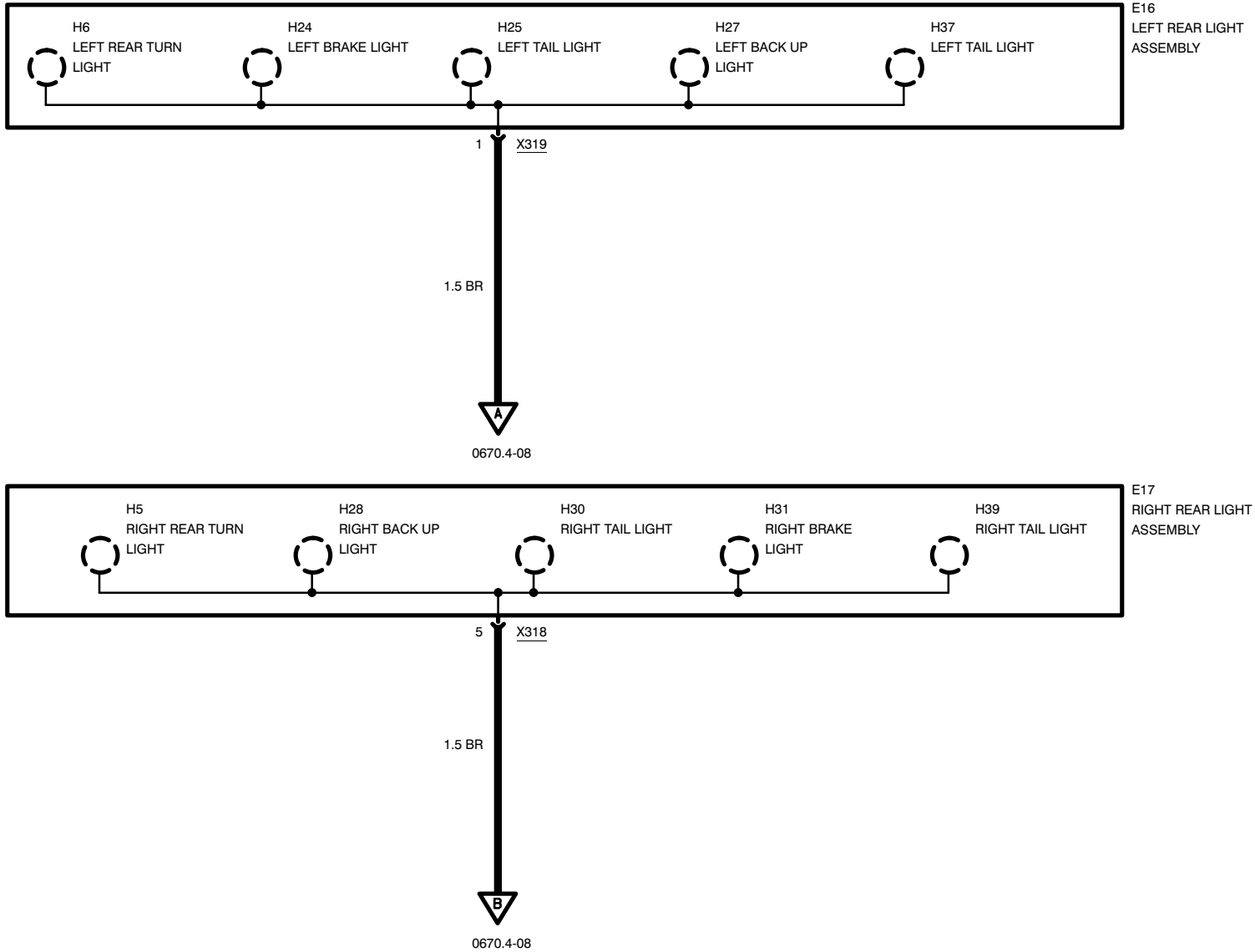
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GROUND DISTRIBUTION

GROUND X13006

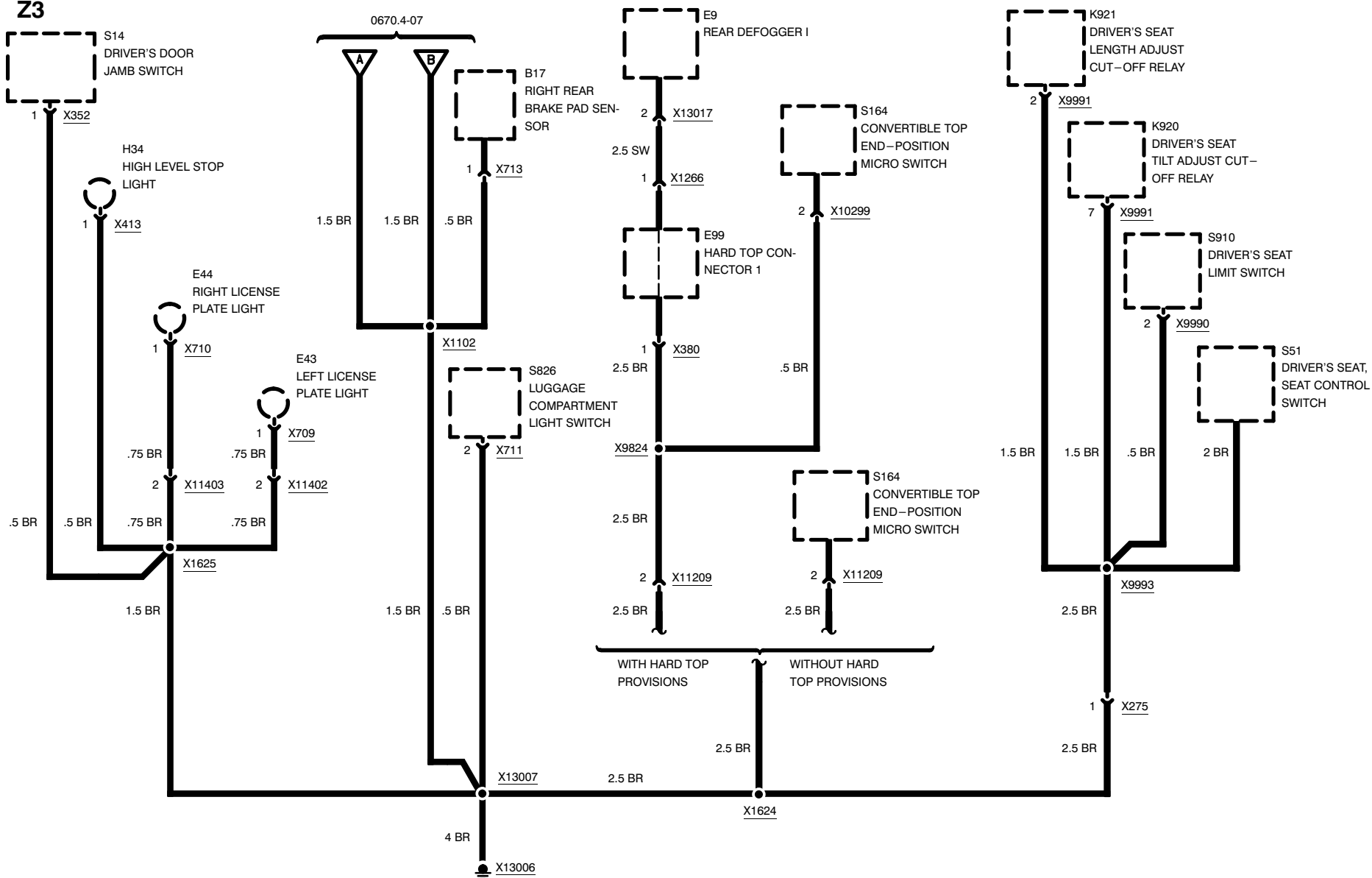




GROUND DISTRIBUTION

GROUND X13006

Z3



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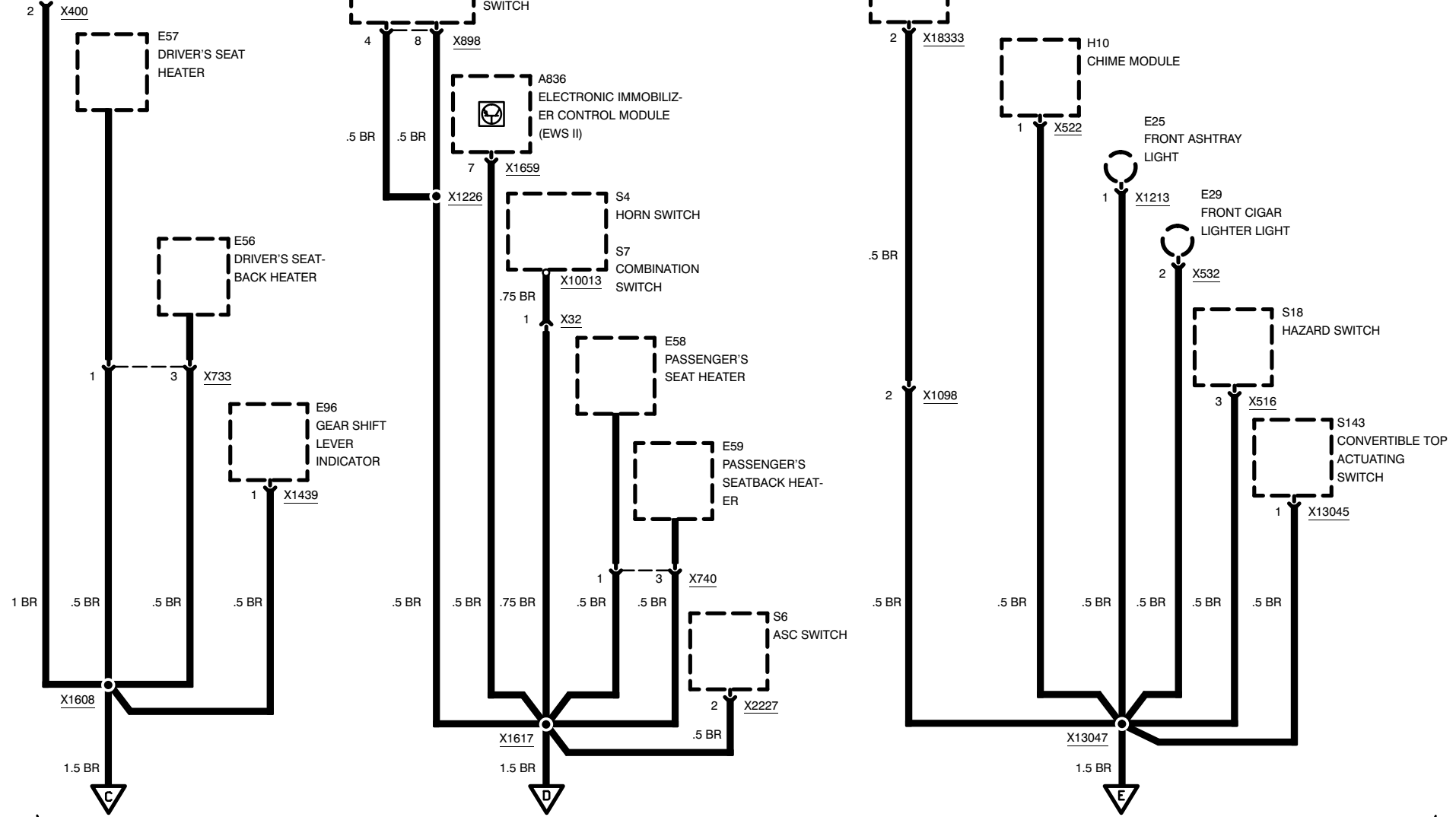


GROUND DISTRIBUTION

GROUND X18170

Z3

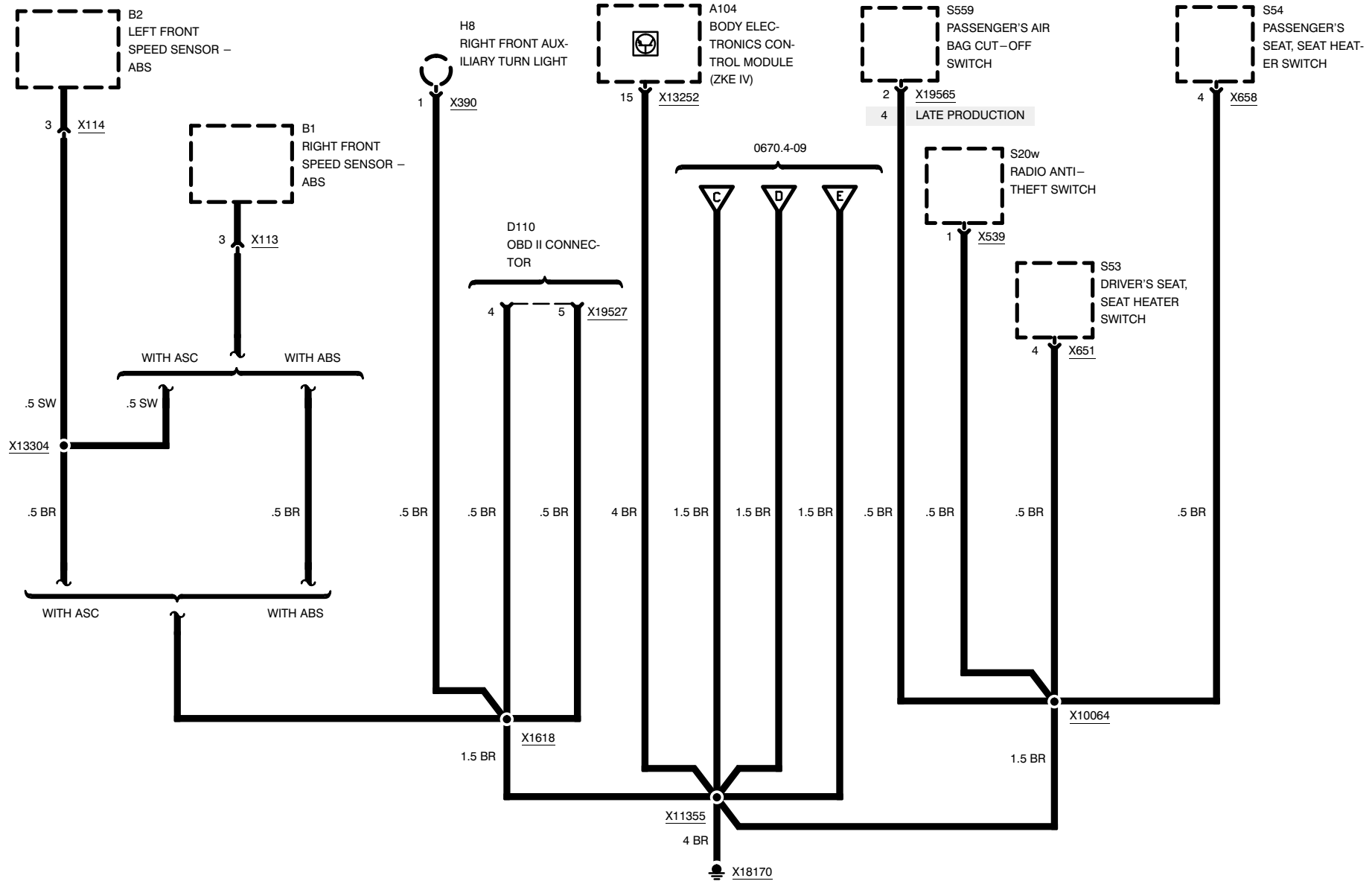
TELEPHONE CON-
NECTOR





GROUND DISTRIBUTION

GROUND X18170



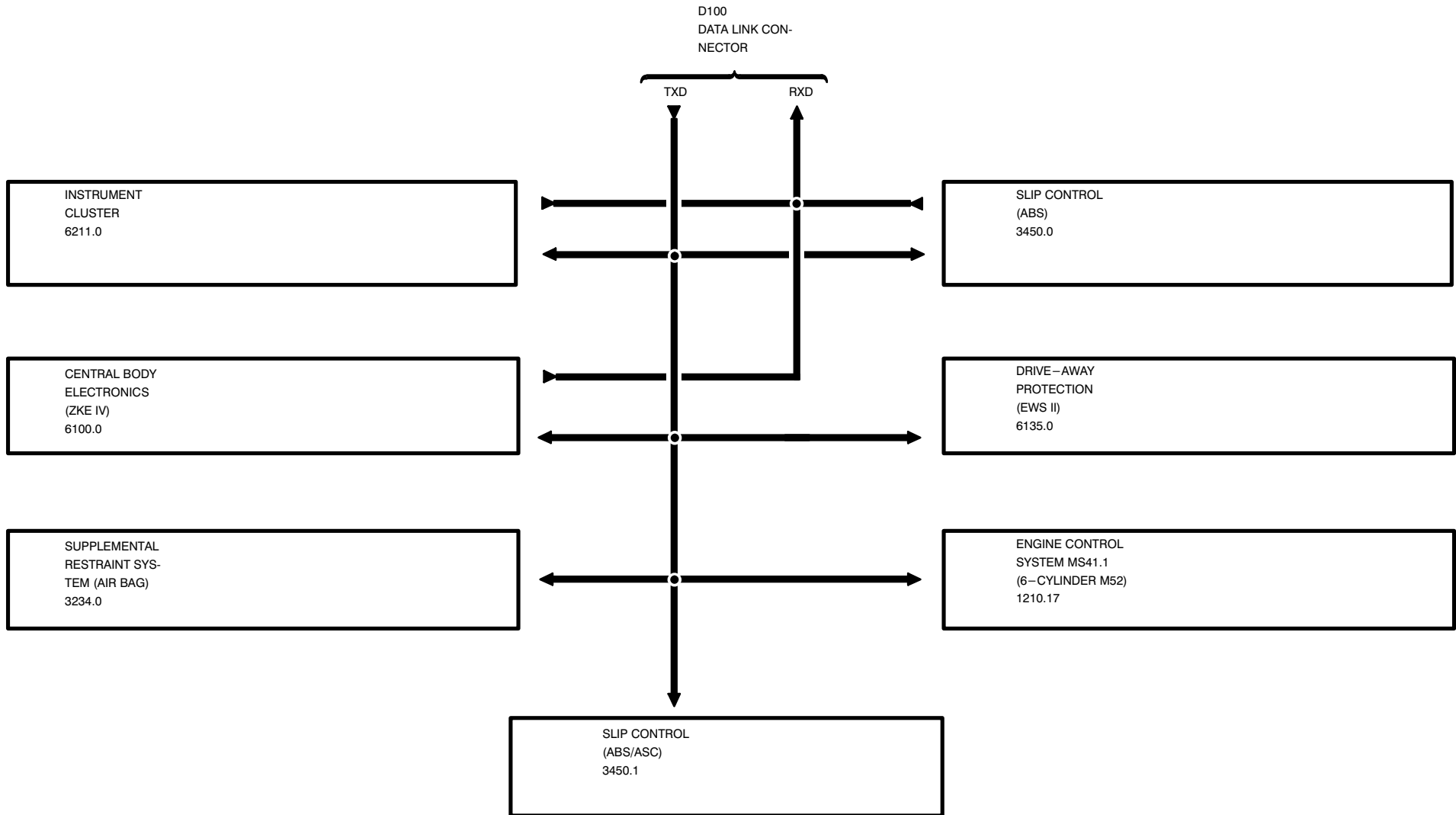
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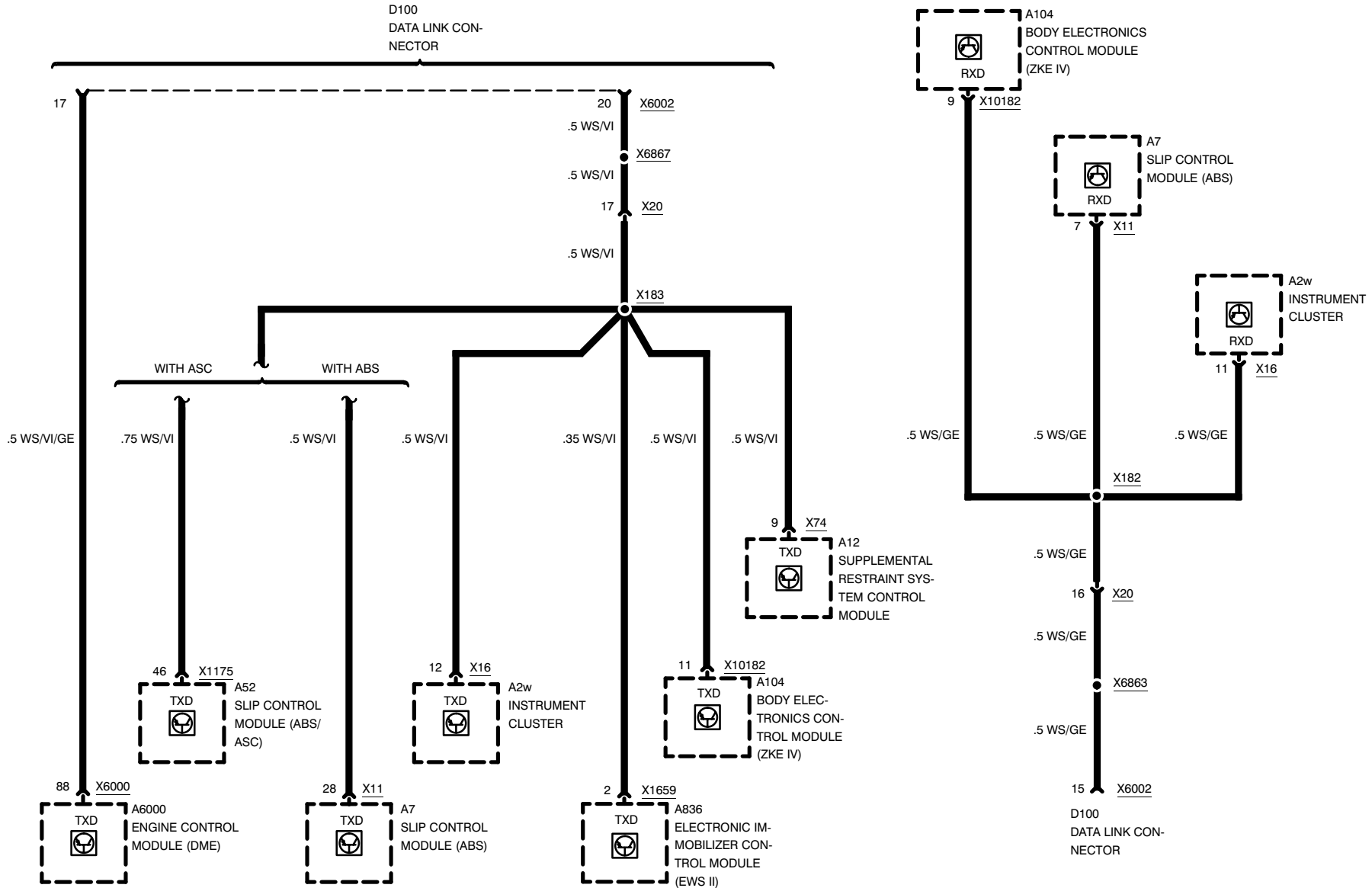


DATA LINK BLOCK DIAGRAM





DATA LINK TXD AND RXD





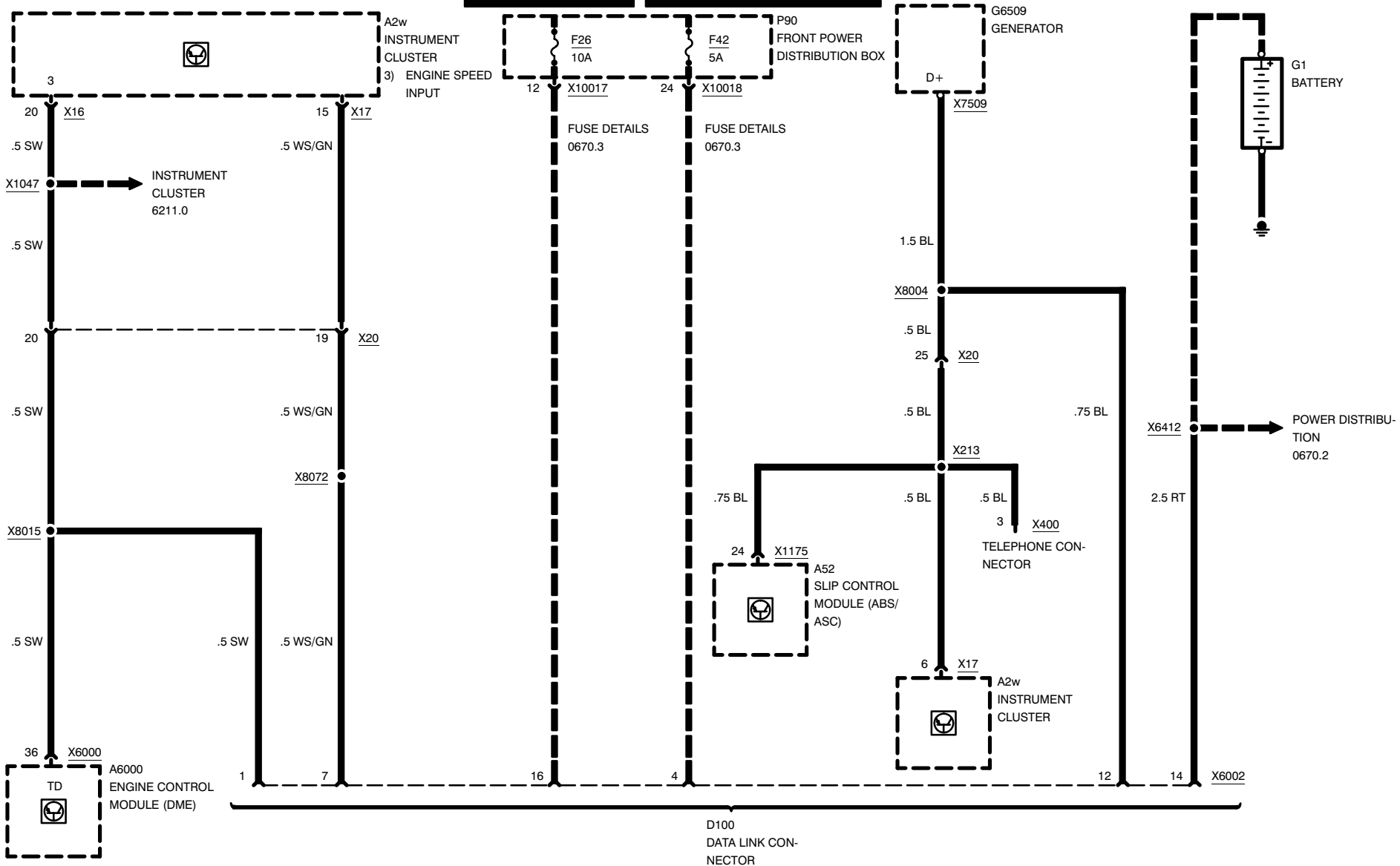
DATA LINK

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

Z3

HOT IN RUN AND START

HOT IN ACCY, RUN AND START



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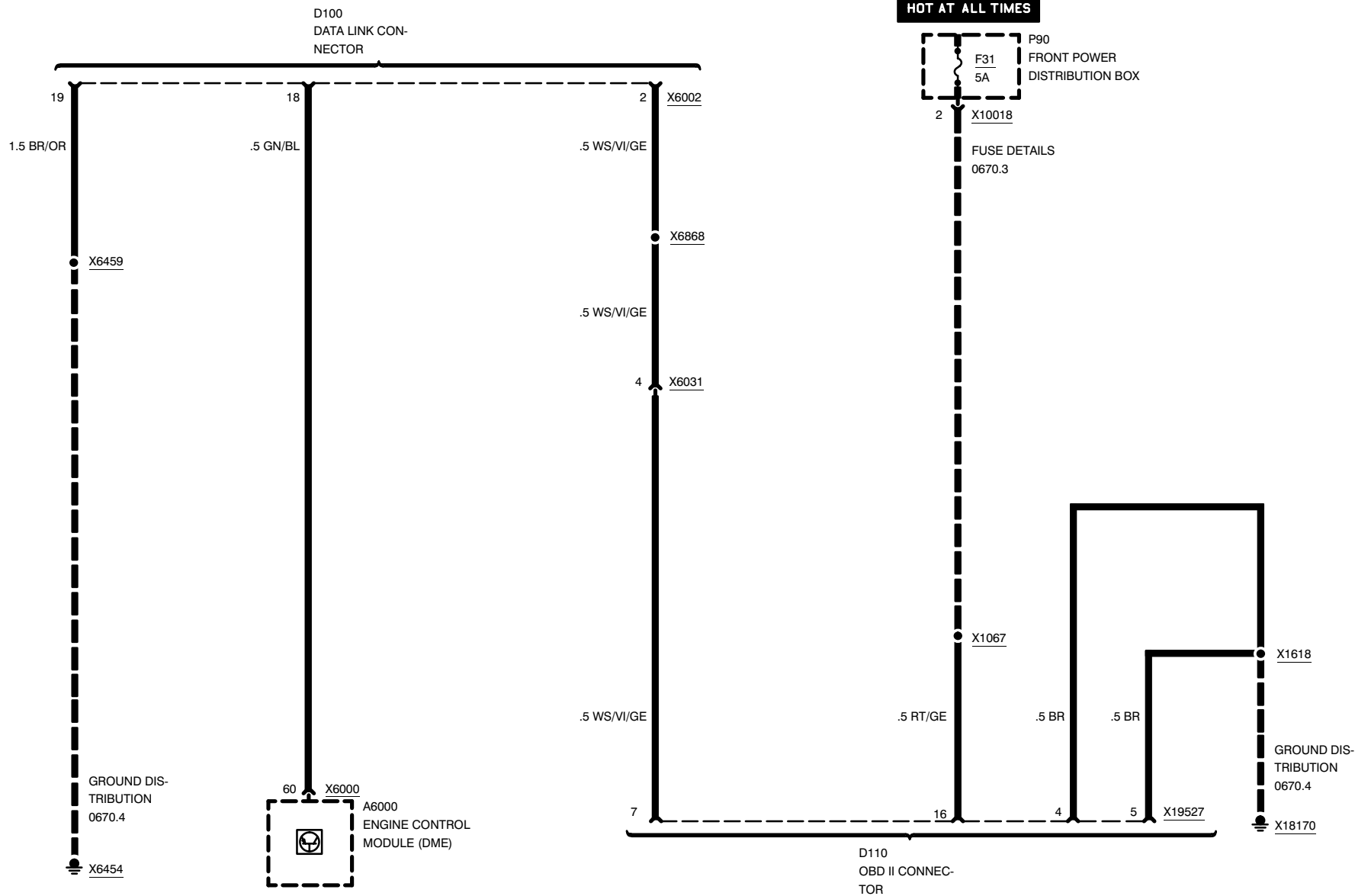
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DATA LINK

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



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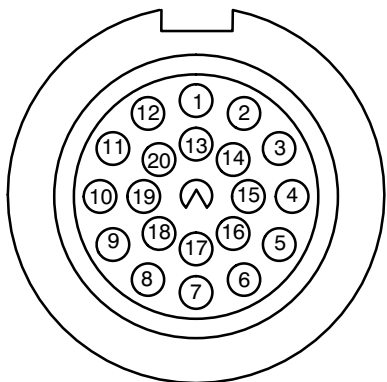
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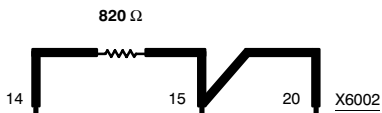


DATA LINK

DATA LINK CONNECTOR (X6002)



BRIDGES IN CAP OF D100 DATA LINK CONNECTOR

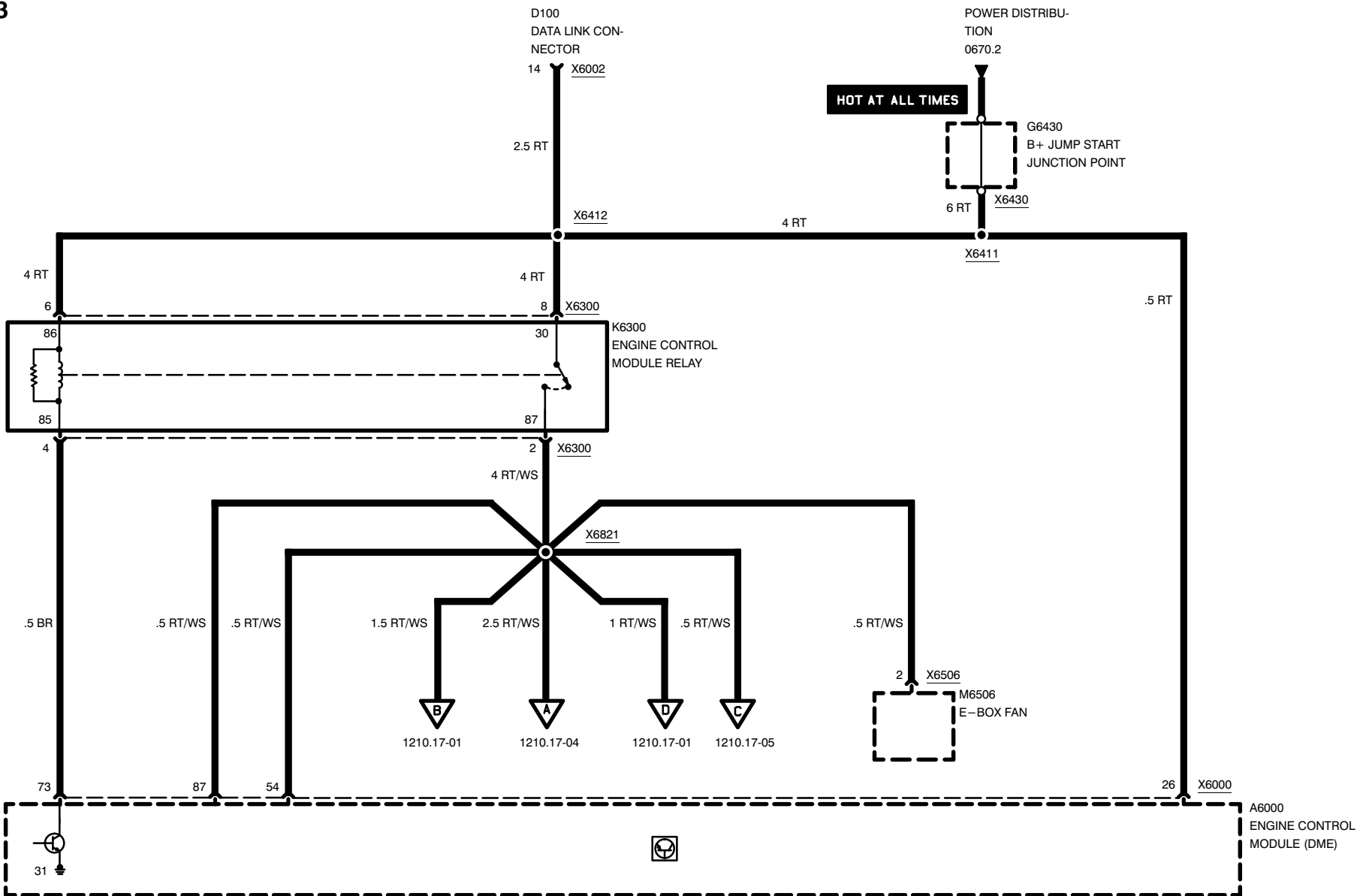


PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	TD	ENGINE	SW
2	TXD2	DIAGNOSTIC DATA LINK	WS/VI/GE
3	–	NOT OCCUPIED	
4	R	VOLTAGE: HOT IN ACCY, RUN AND START	VI/GN
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	–	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	TXD	DIAGNOSTIC DATA LINK	WS/VI/GE
18	PGSP	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	GN/BL
19	31	GROUND	BR/OR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI



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

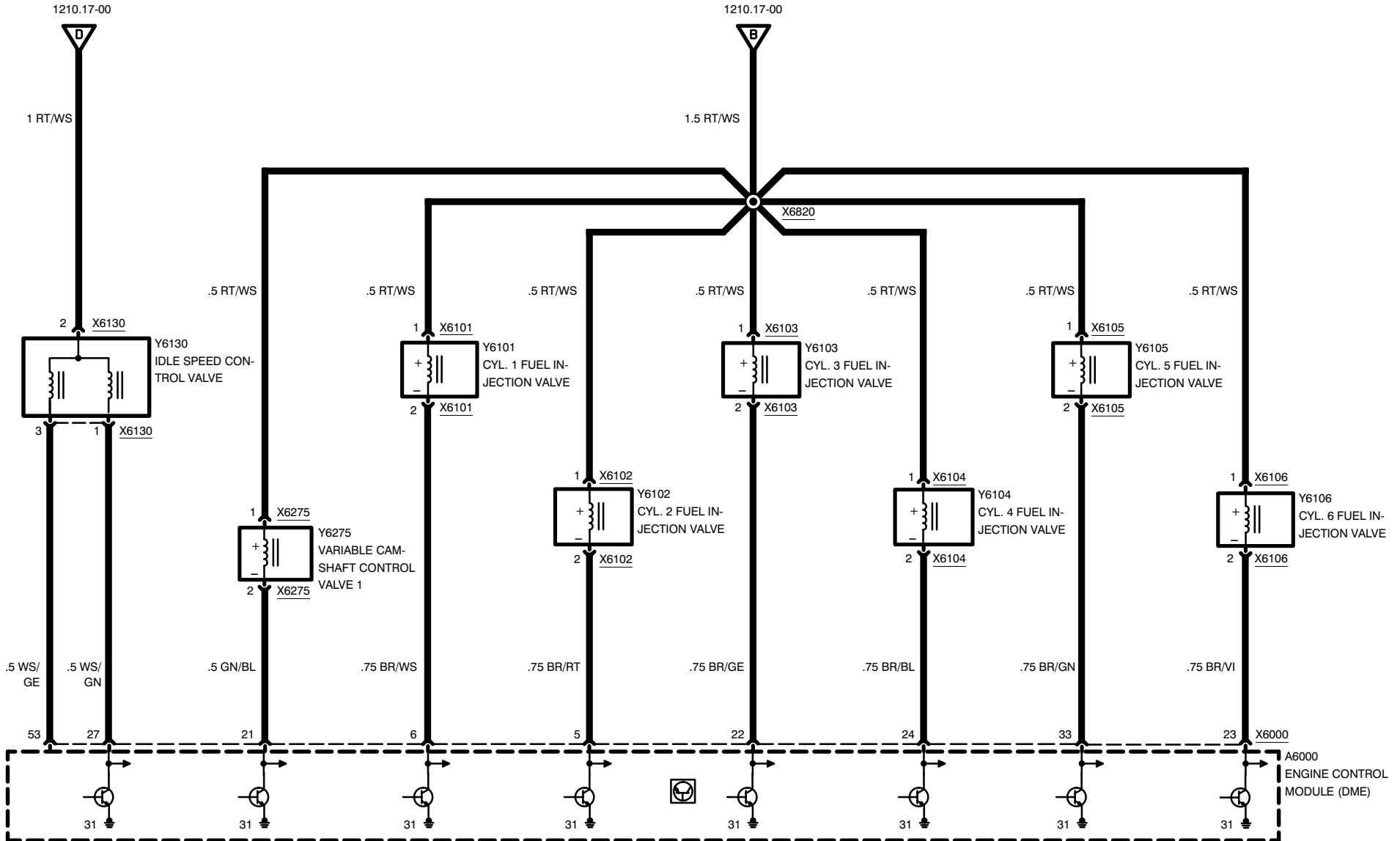
POWER





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

Z3



02/98

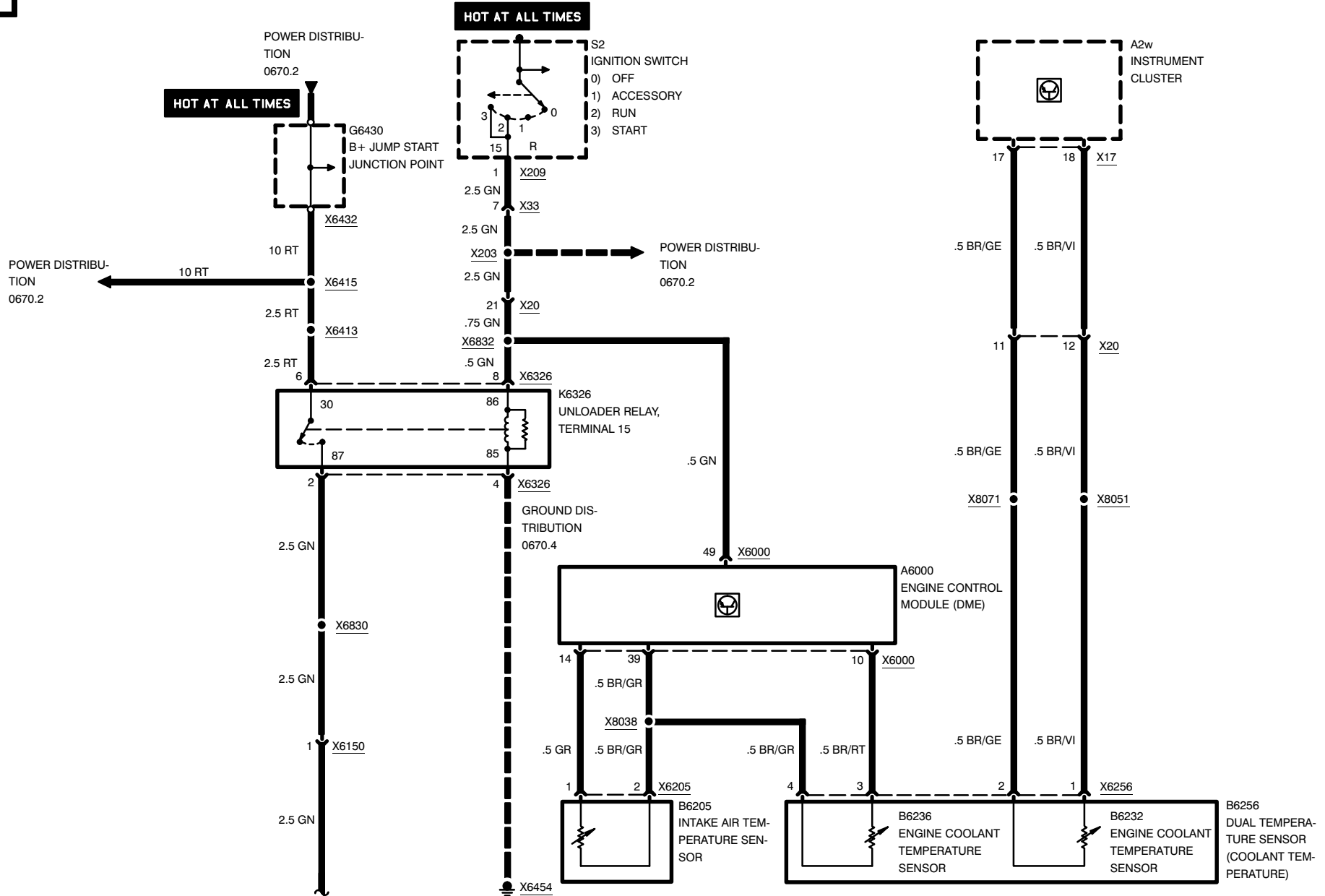
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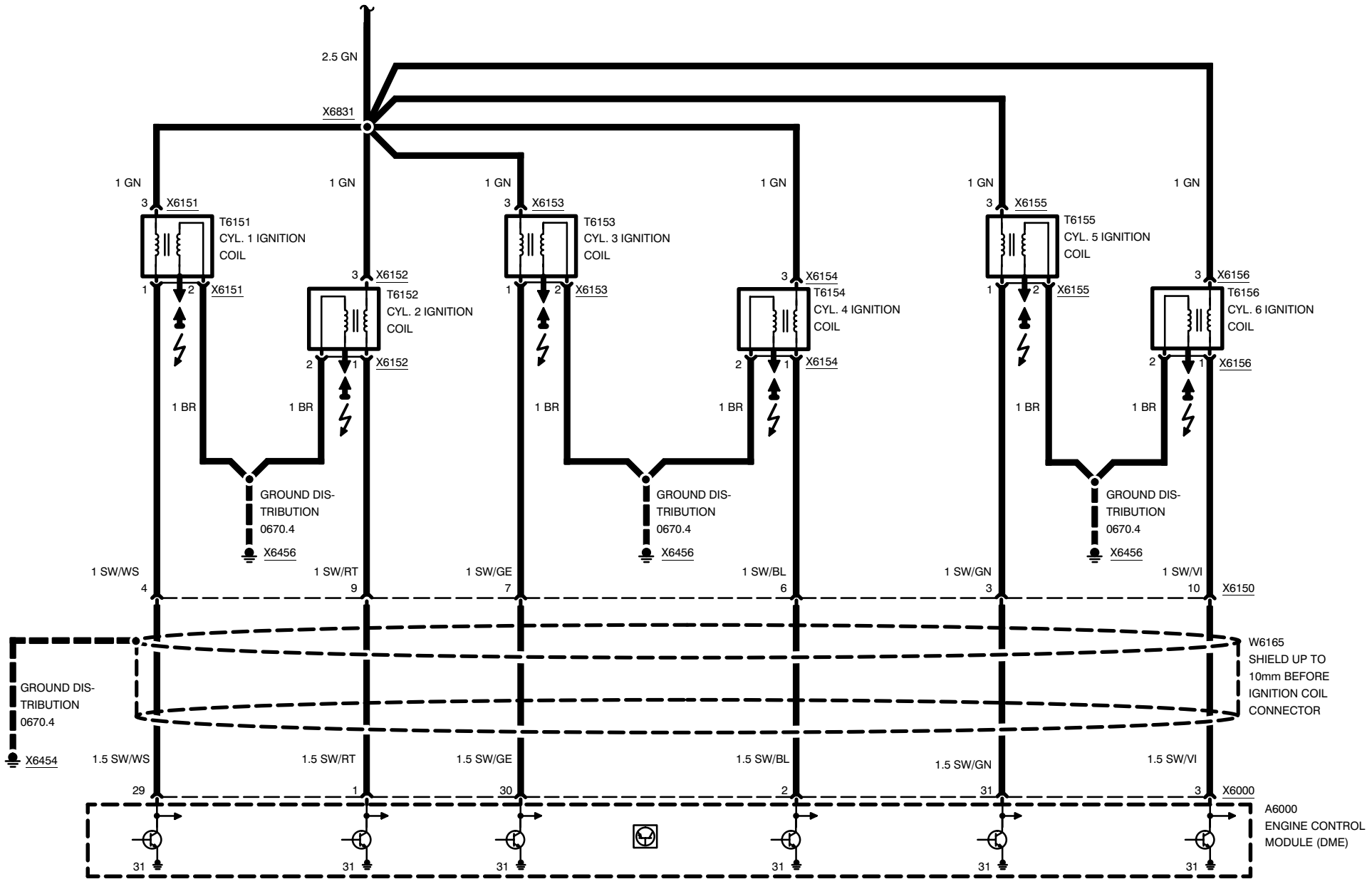
ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)



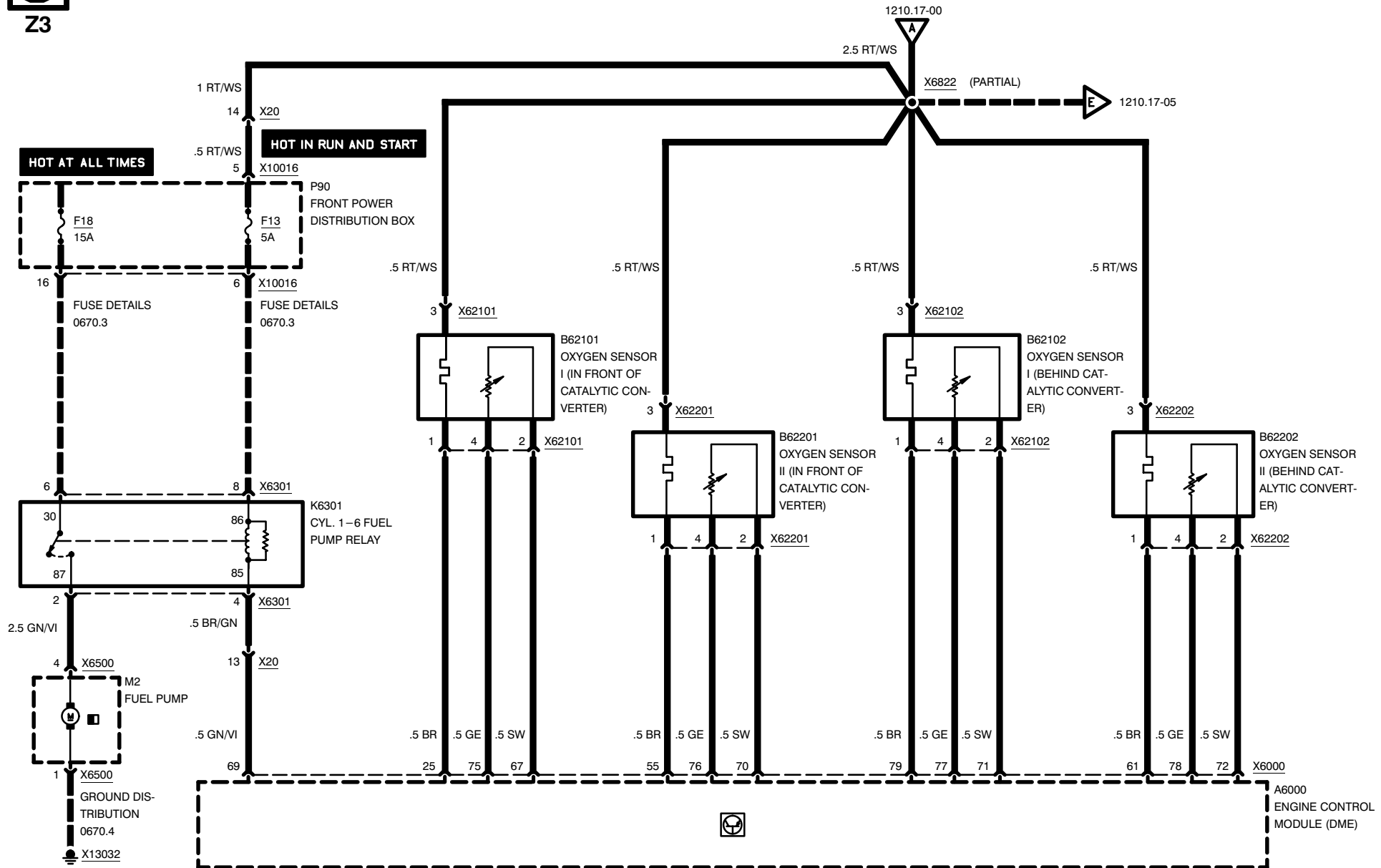
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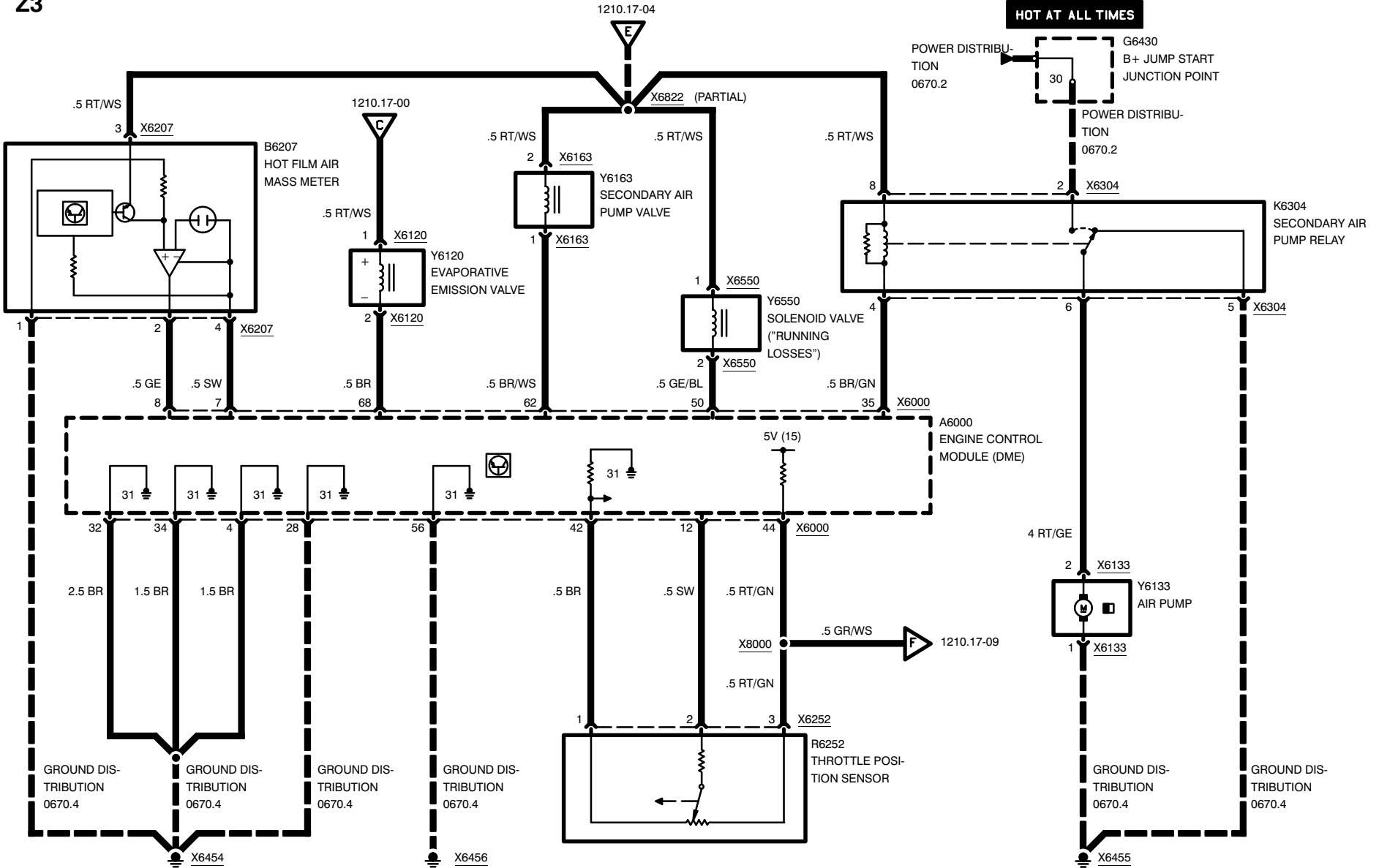
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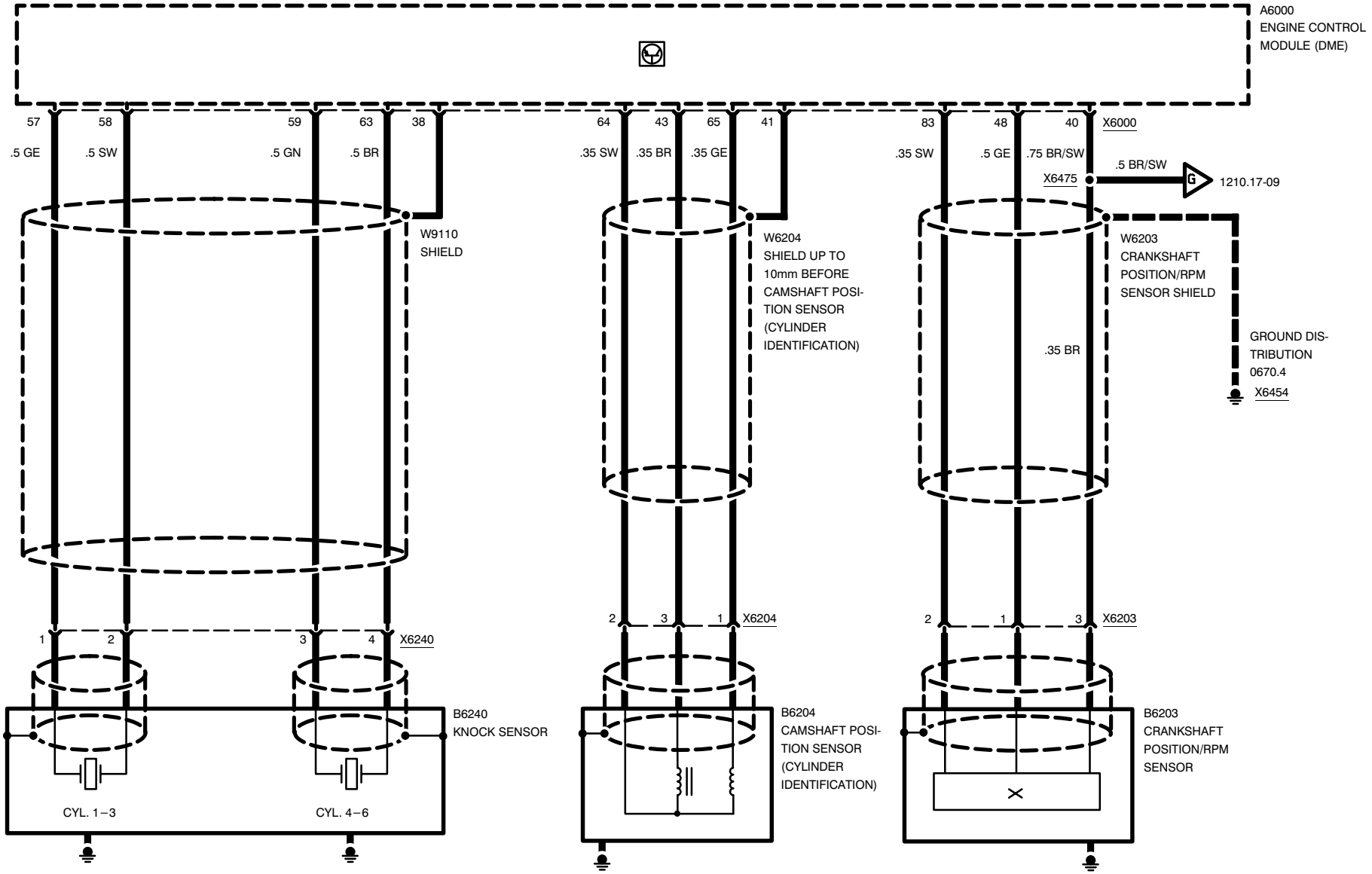
ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)



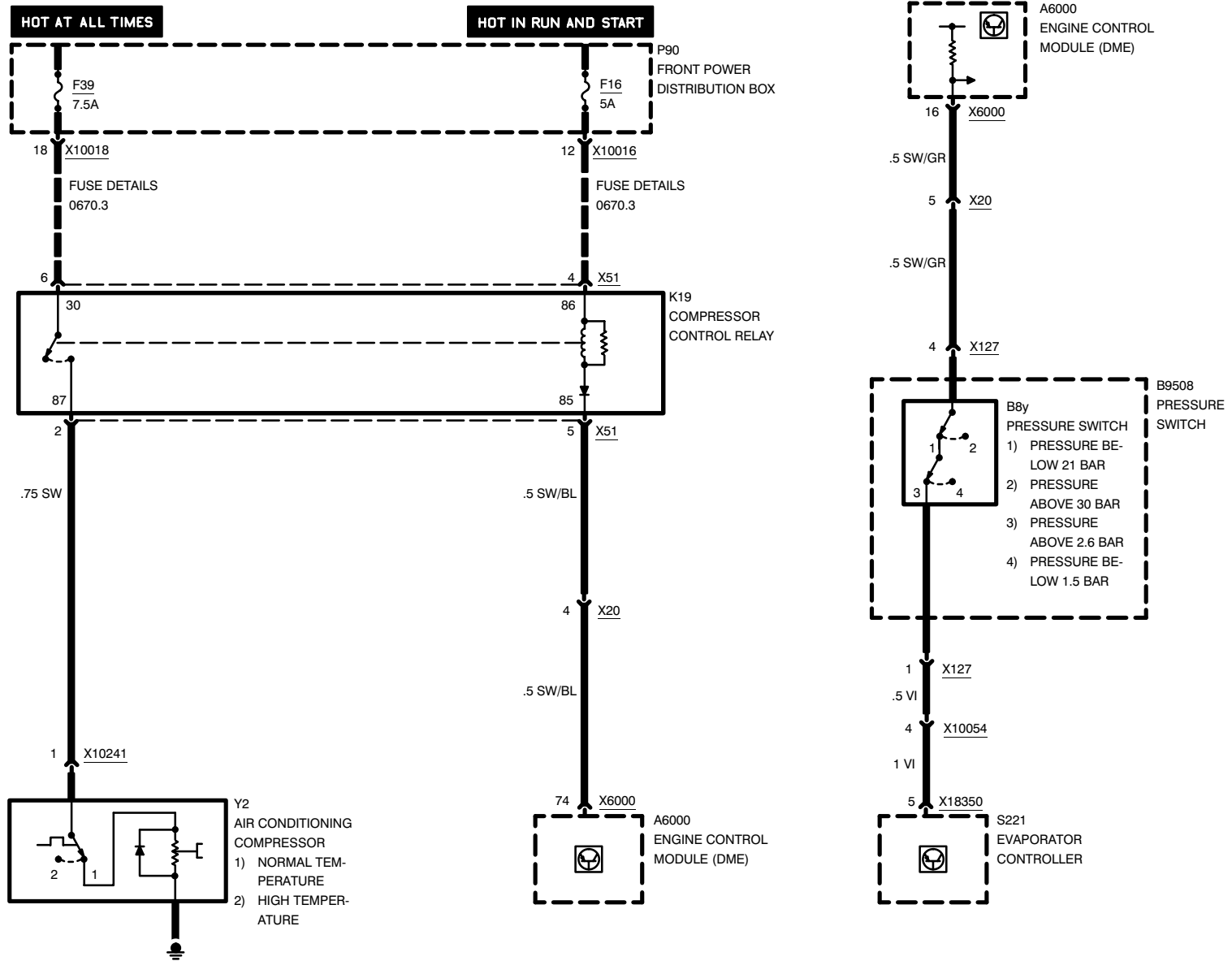
ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)



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

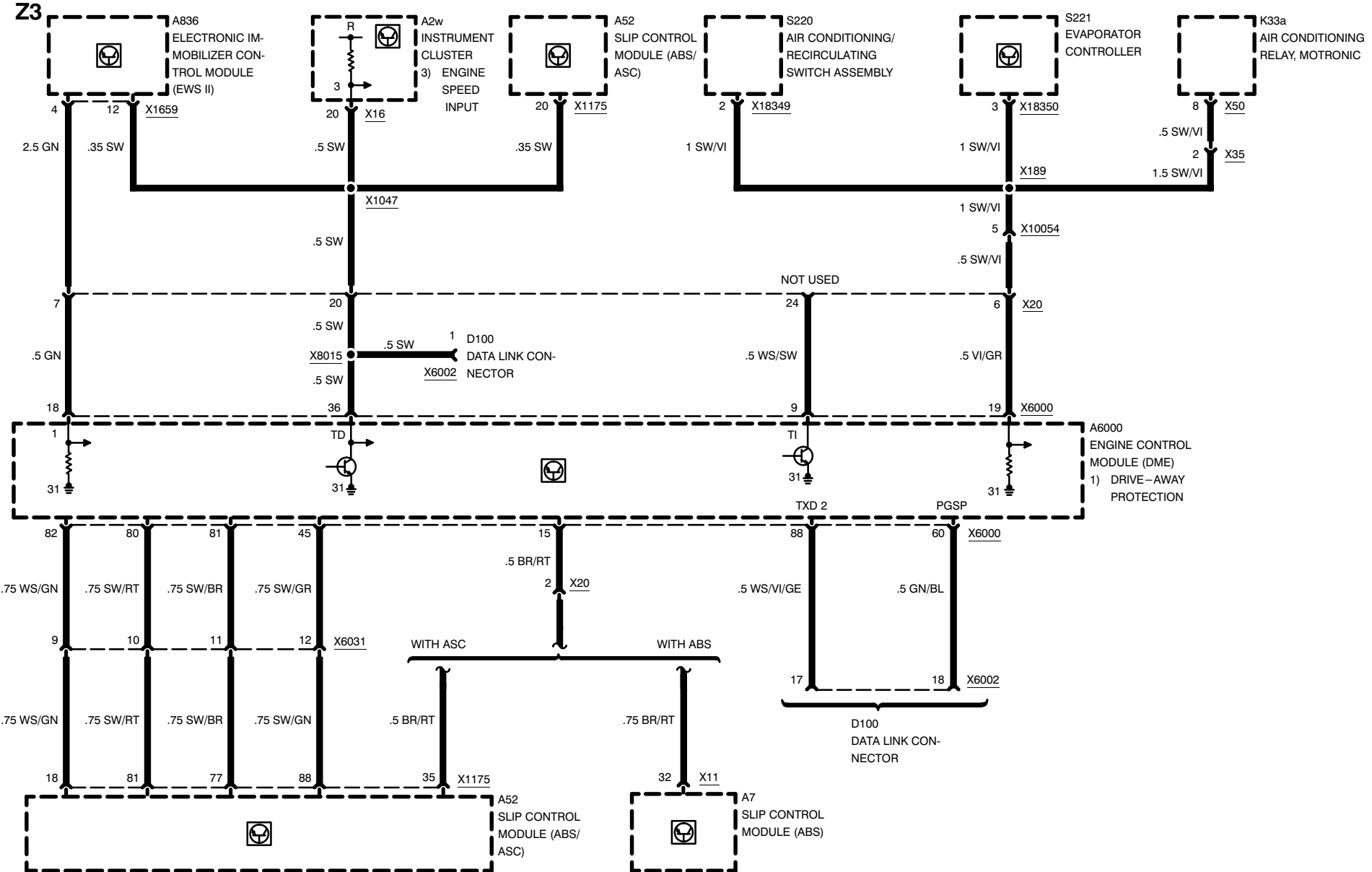


ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)





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



03/98

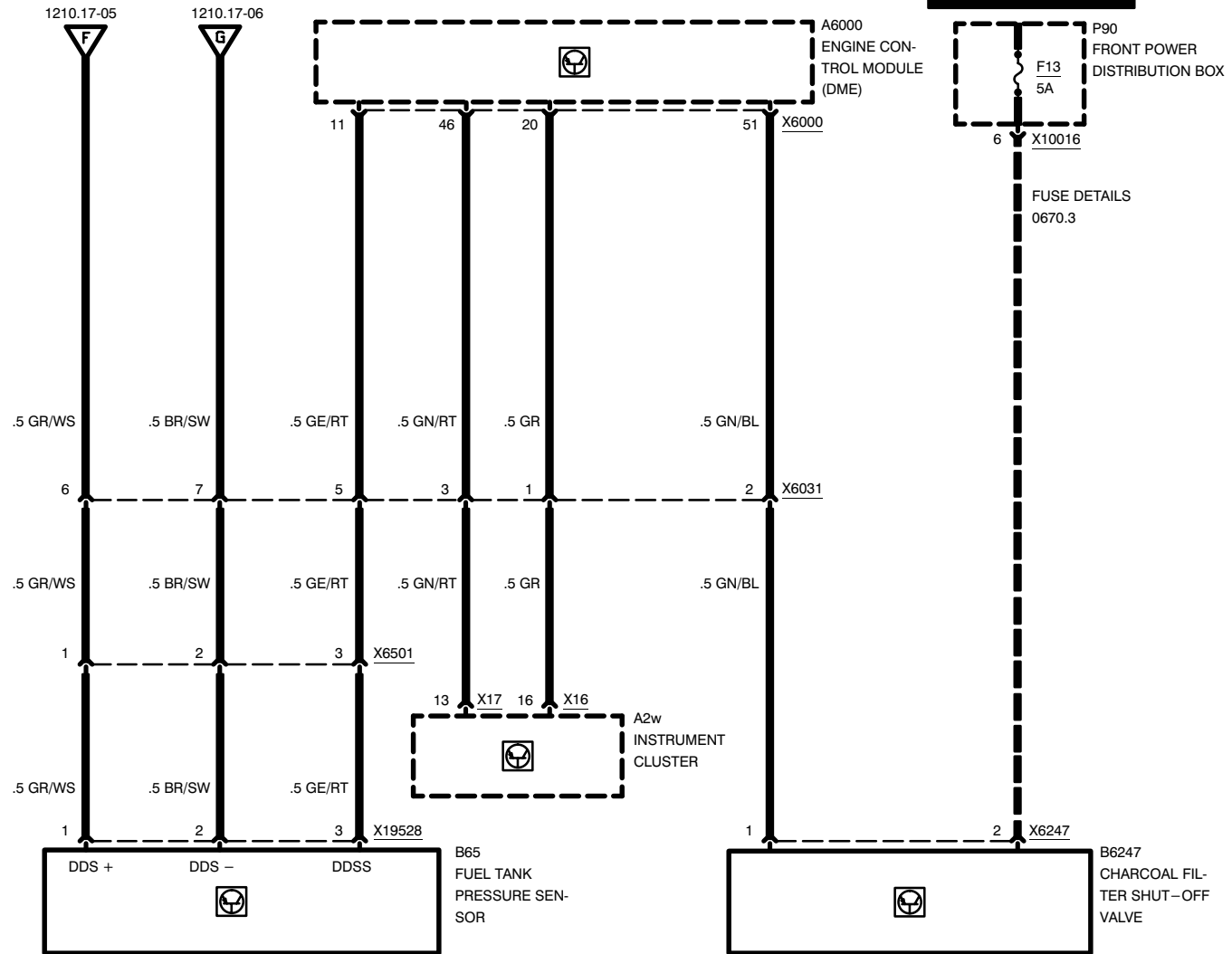
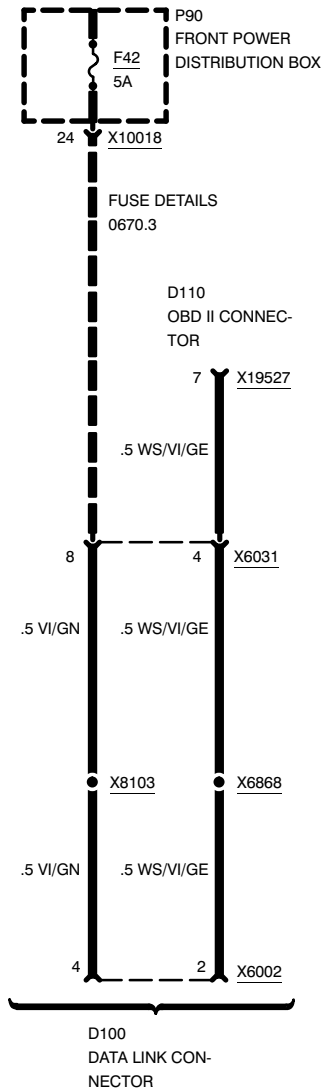
1210.17-08

1998

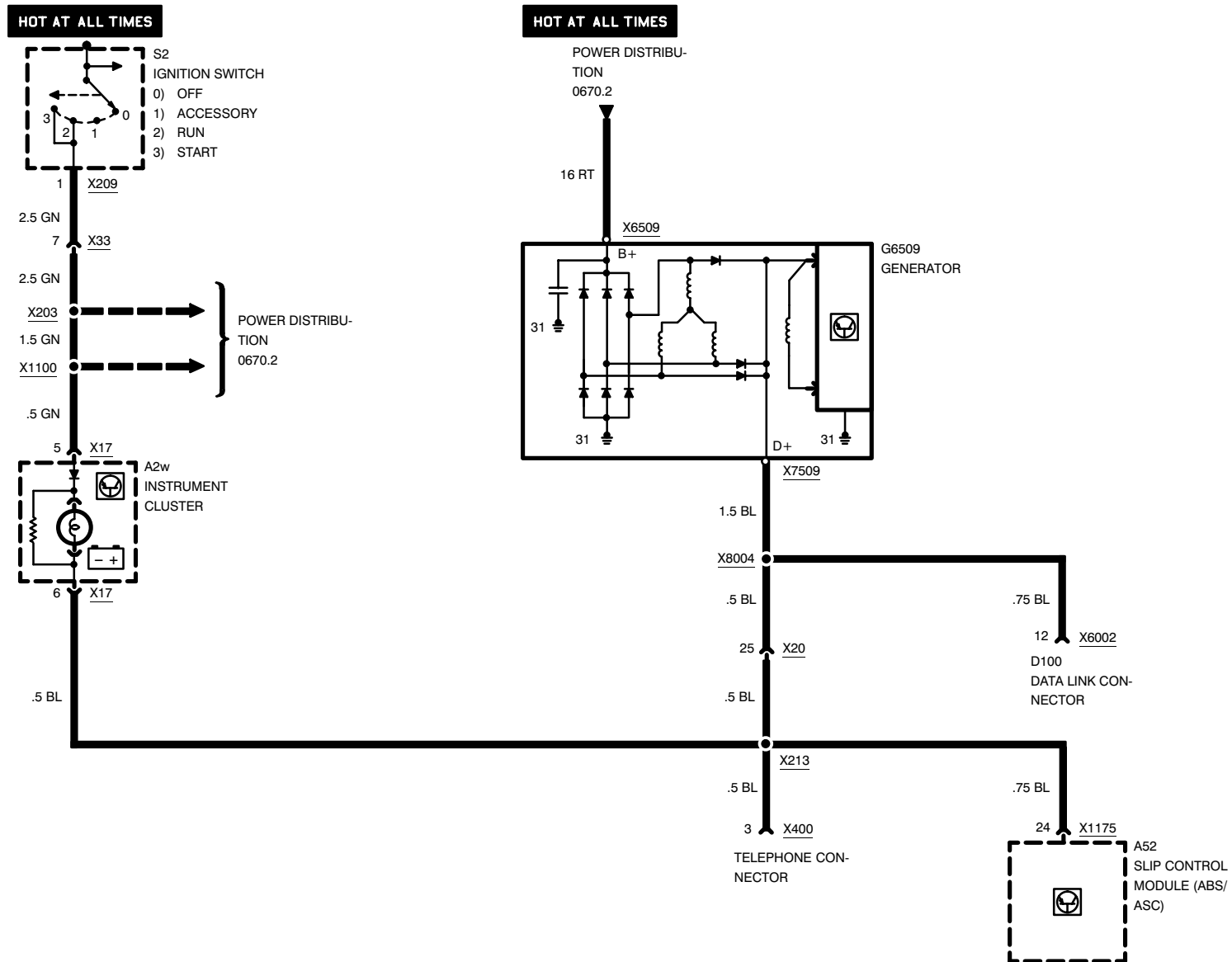
ENGINE CONTROL SYSTEM MS41.1 (6-CYLINDER M52)

OBD II DIAGNOSIS

HOT IN ACCY RUN AND START

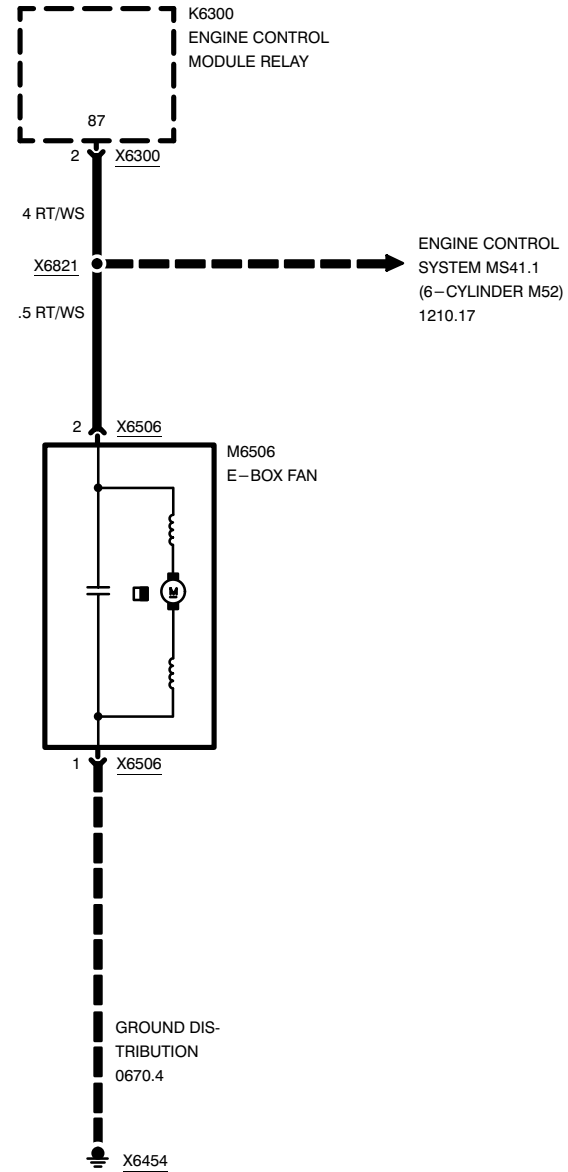


CHARGING SYSTEM





E-BOX FAN



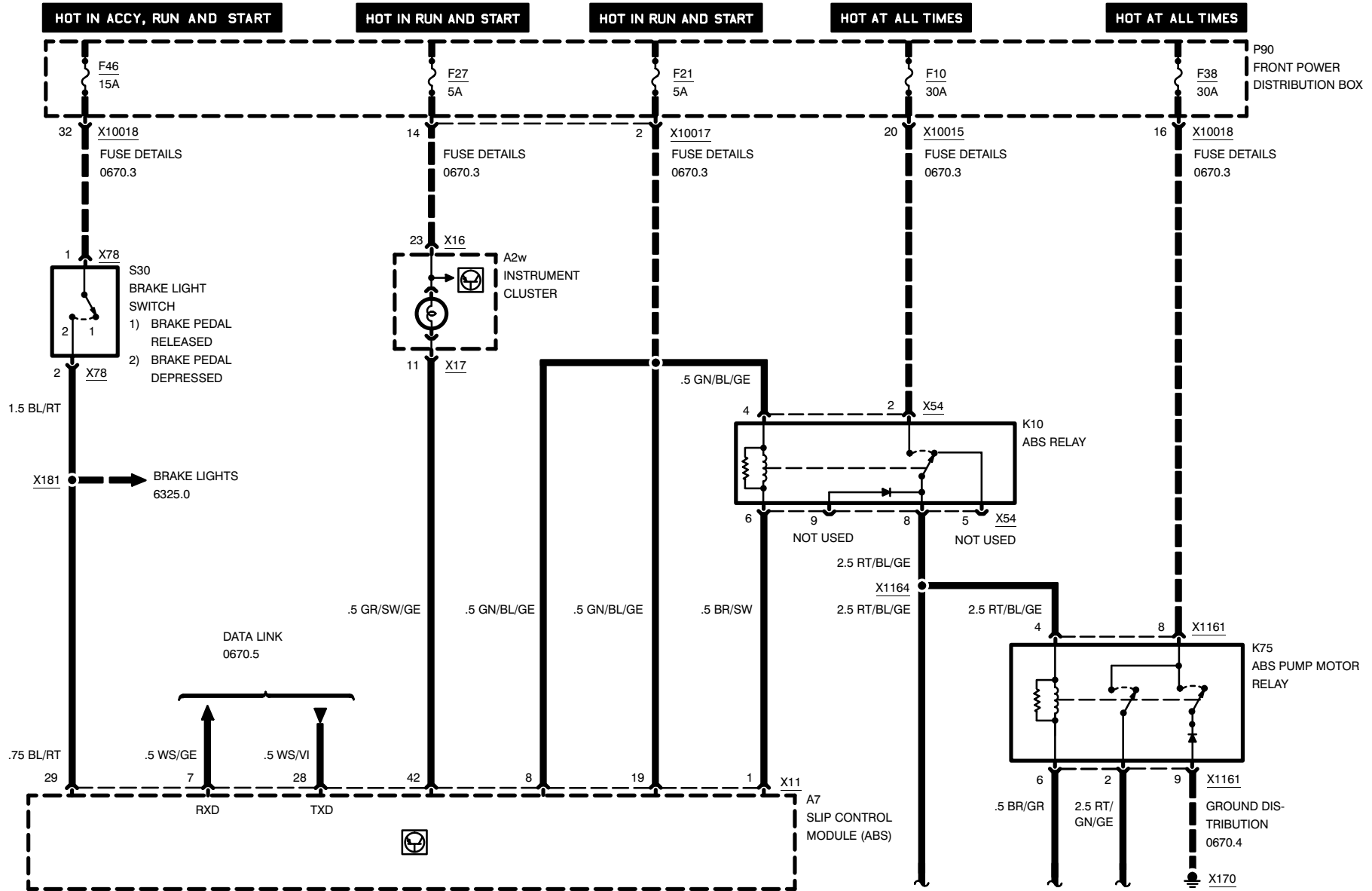
02/98

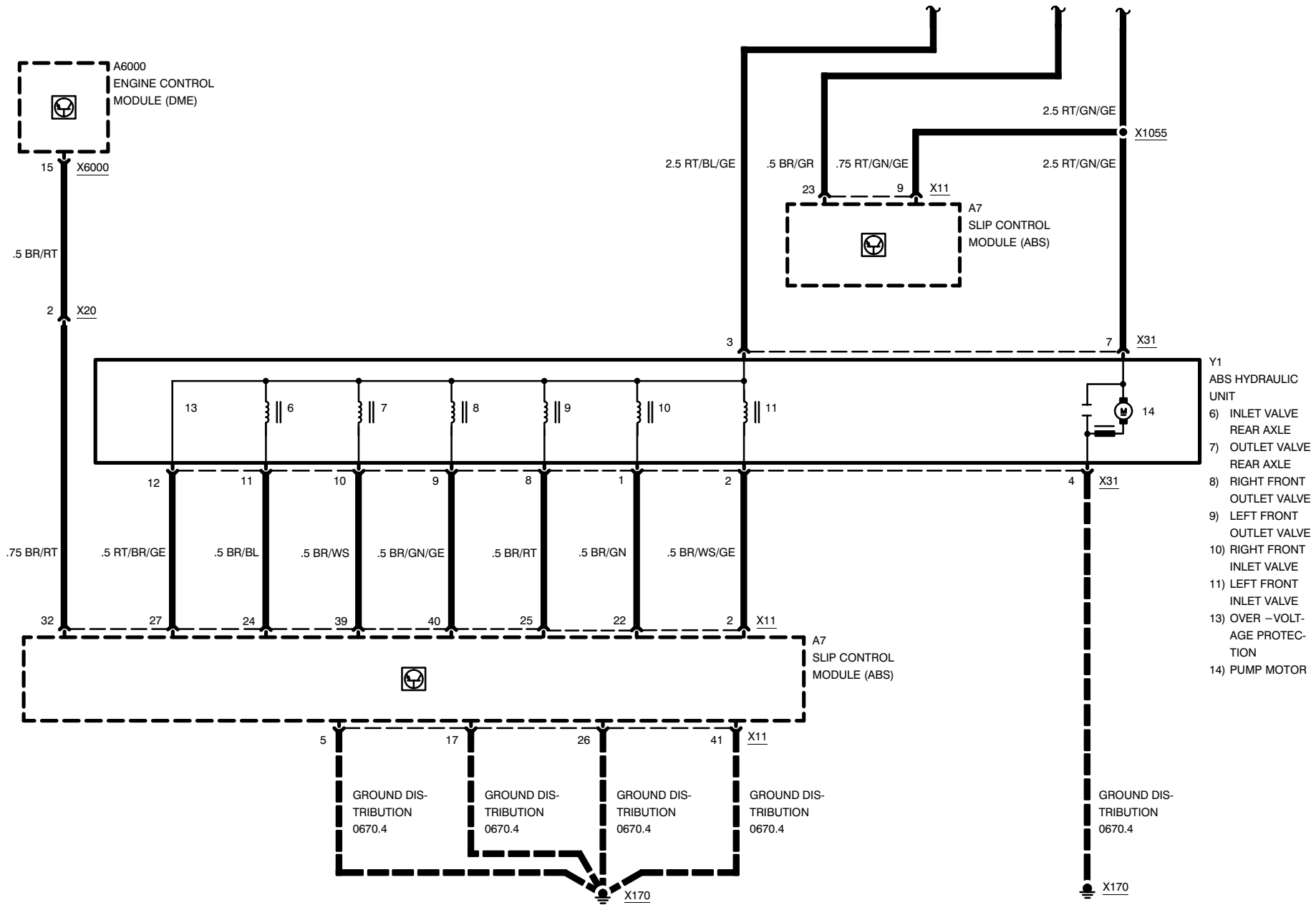
1290.0 00

1998



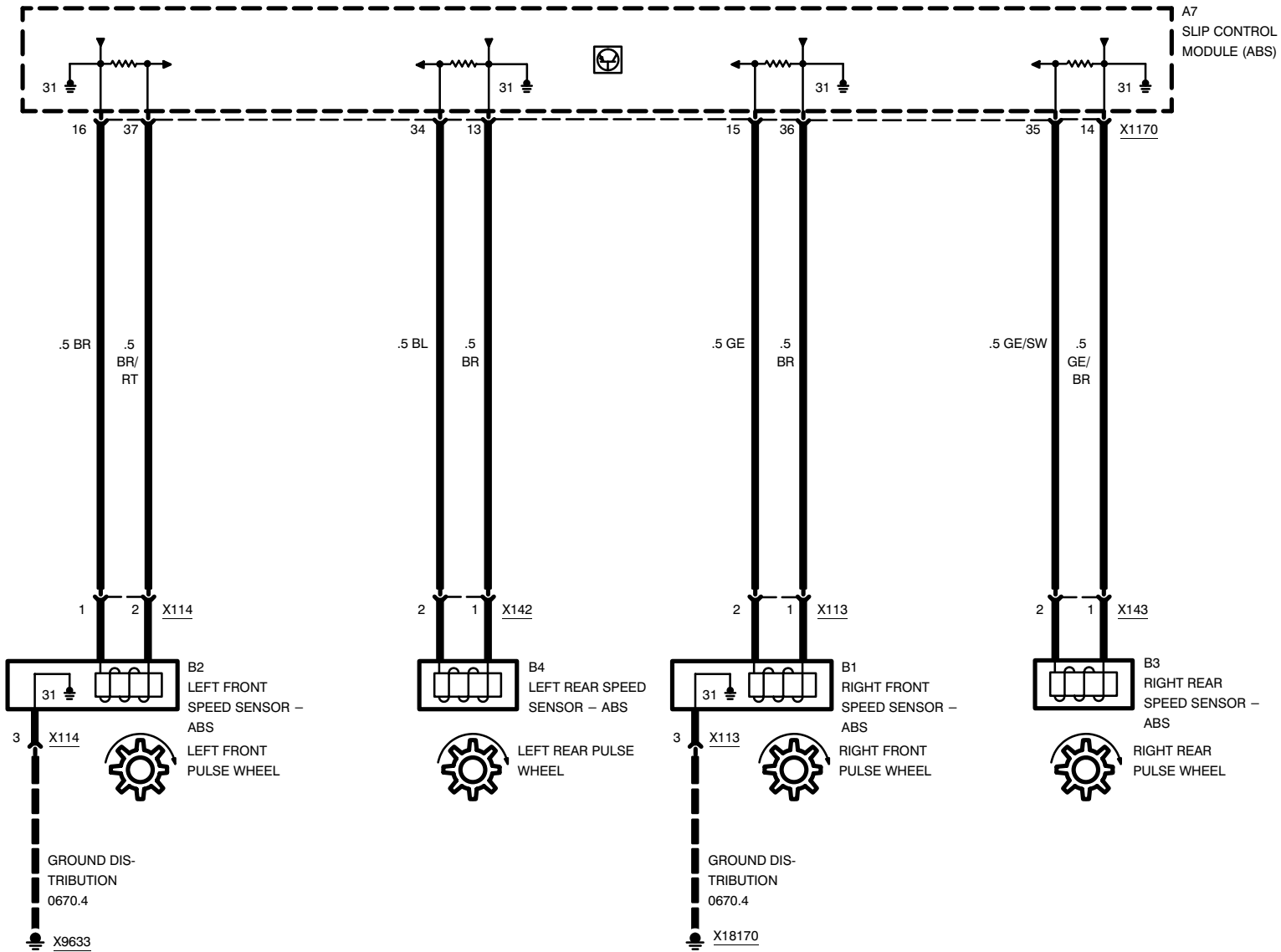
SLIP CONTROL (ABS)





- Y1
ABS HYDRAULIC
UNIT
- 6) INLET VALVE
REAR AXLE
 - 7) OUTLET VALVE
REAR AXLE
 - 8) RIGHT FRONT
OUTLET VALVE
 - 9) LEFT FRONT
OUTLET VALVE
 - 10) RIGHT FRONT
INLET VALVE
 - 11) LEFT FRONT
INLET VALVE
 - 13) OVER -VOLT-
AGE PROTEC-
TION
 - 14) PUMP MOTOR

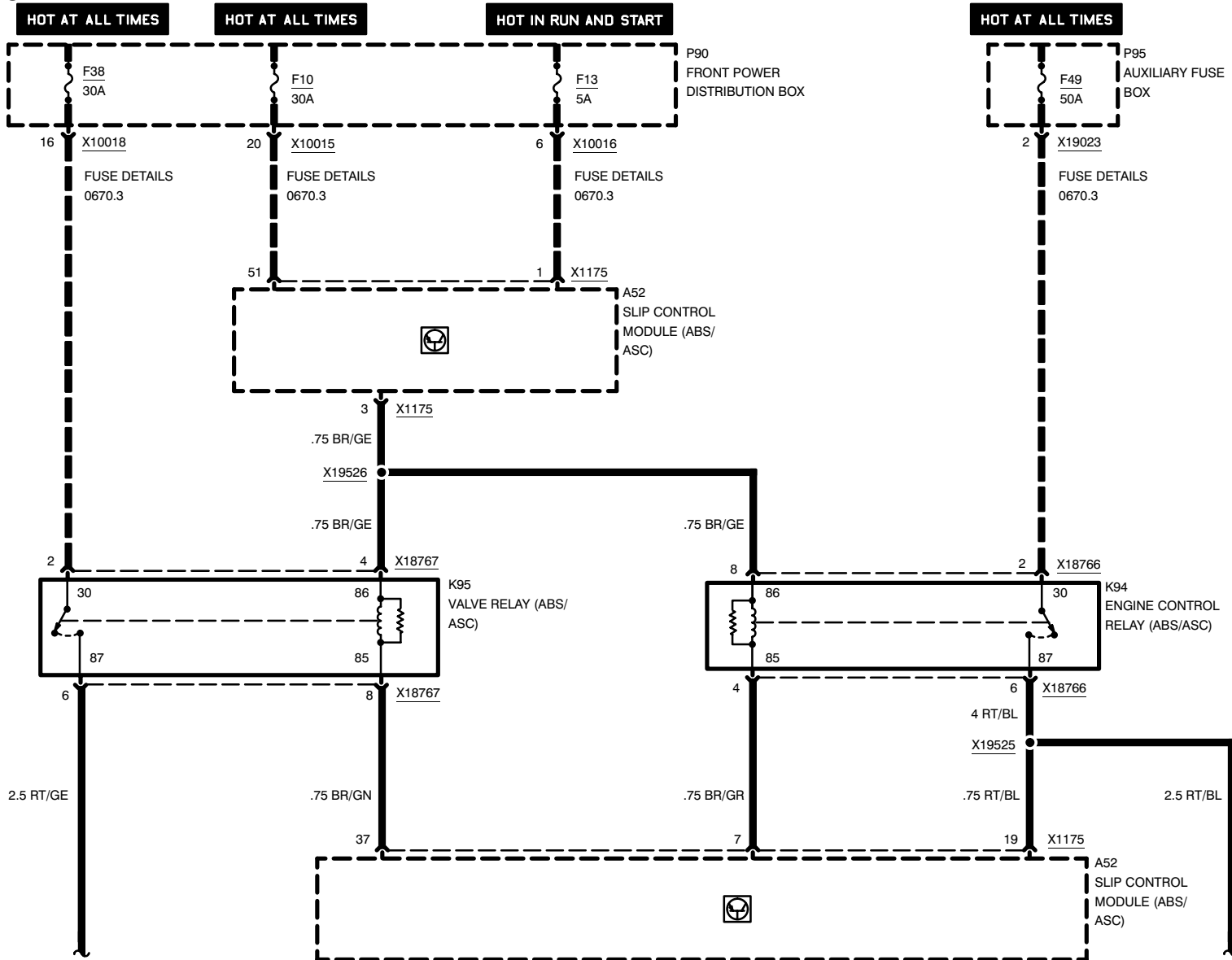
SLIP CONTROL (ABS)





SLIP CONTROL (ABS/ASC)

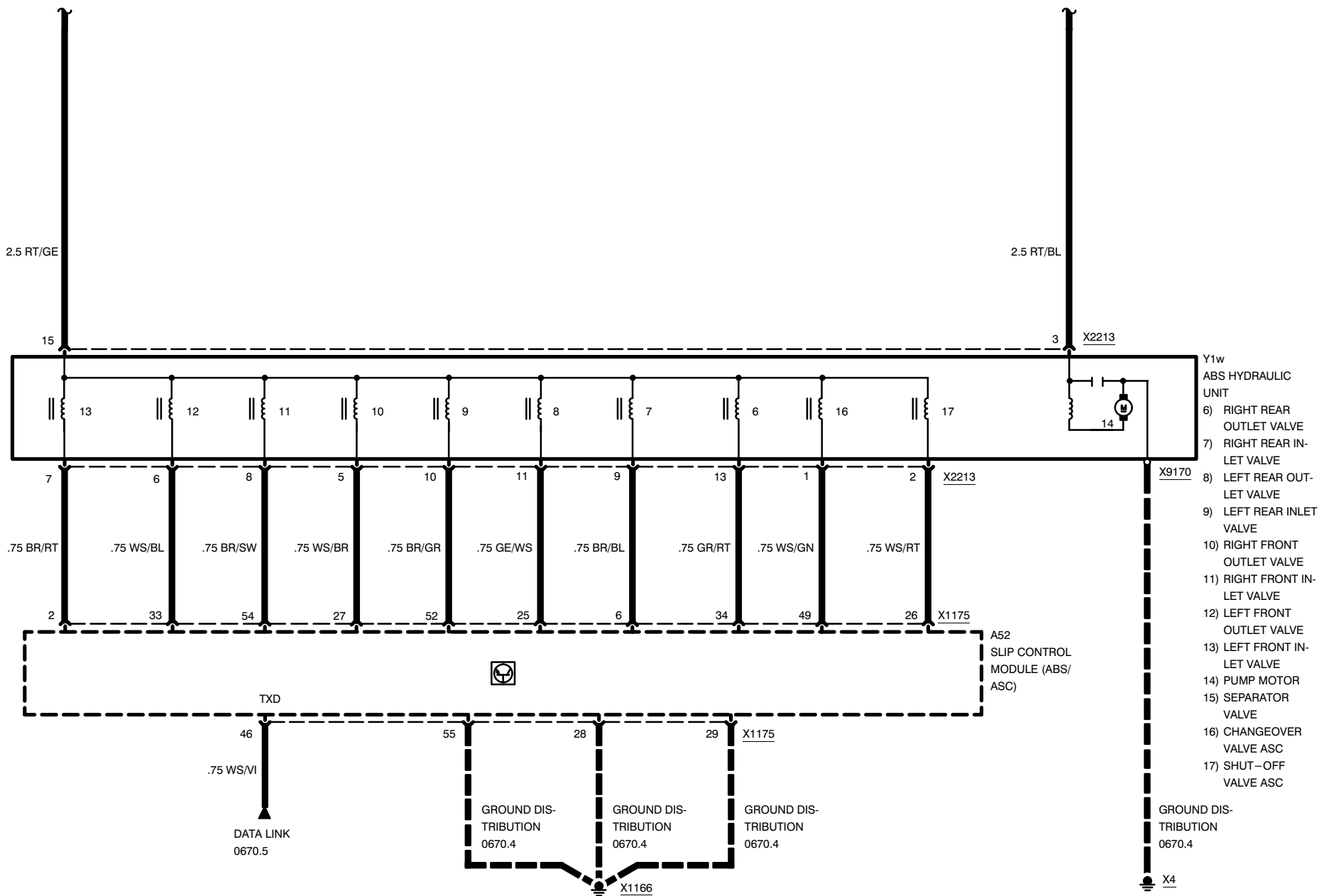
Z3



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3450.1-00

1998

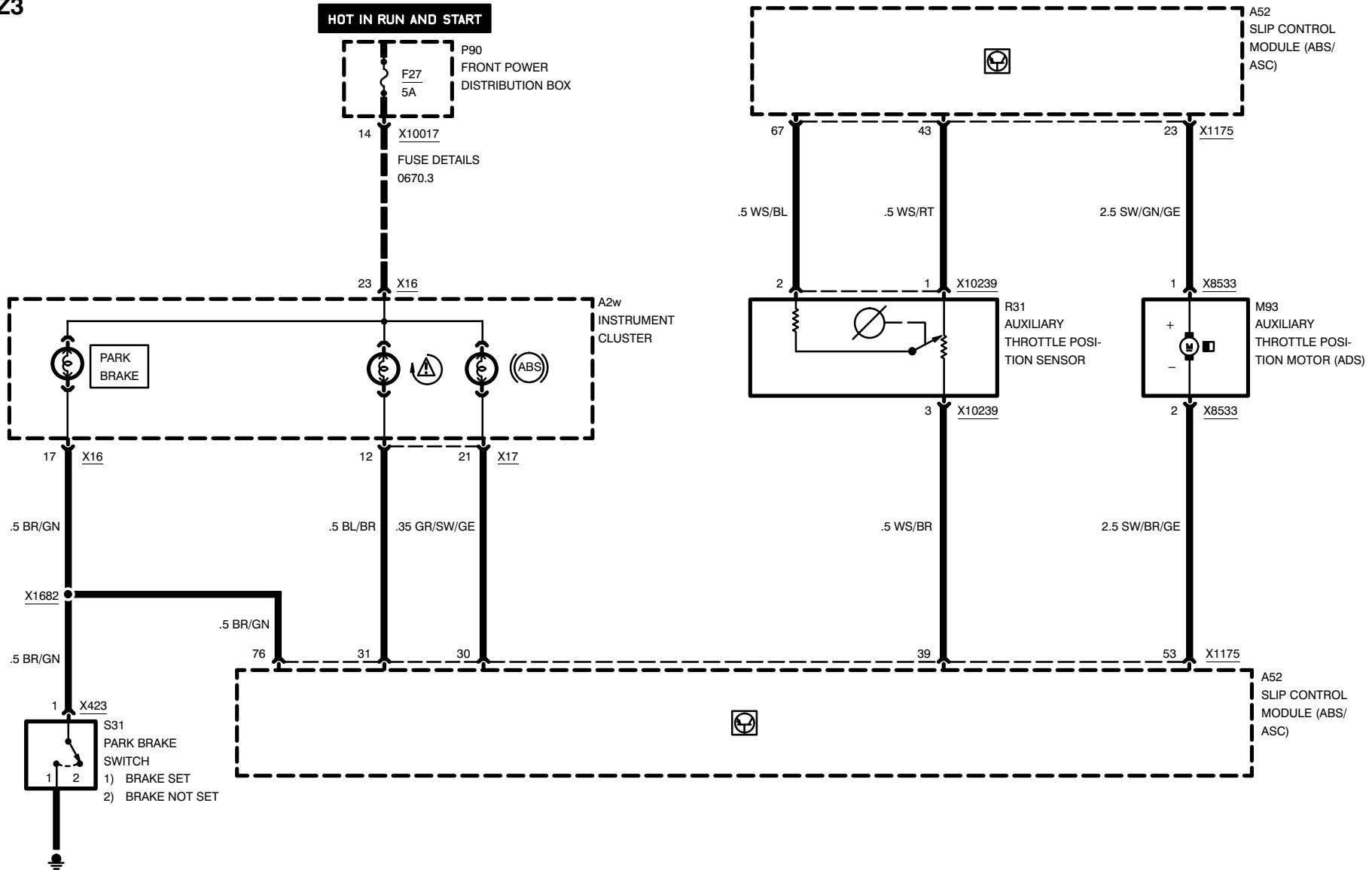


03/98

3450.1-01

1998

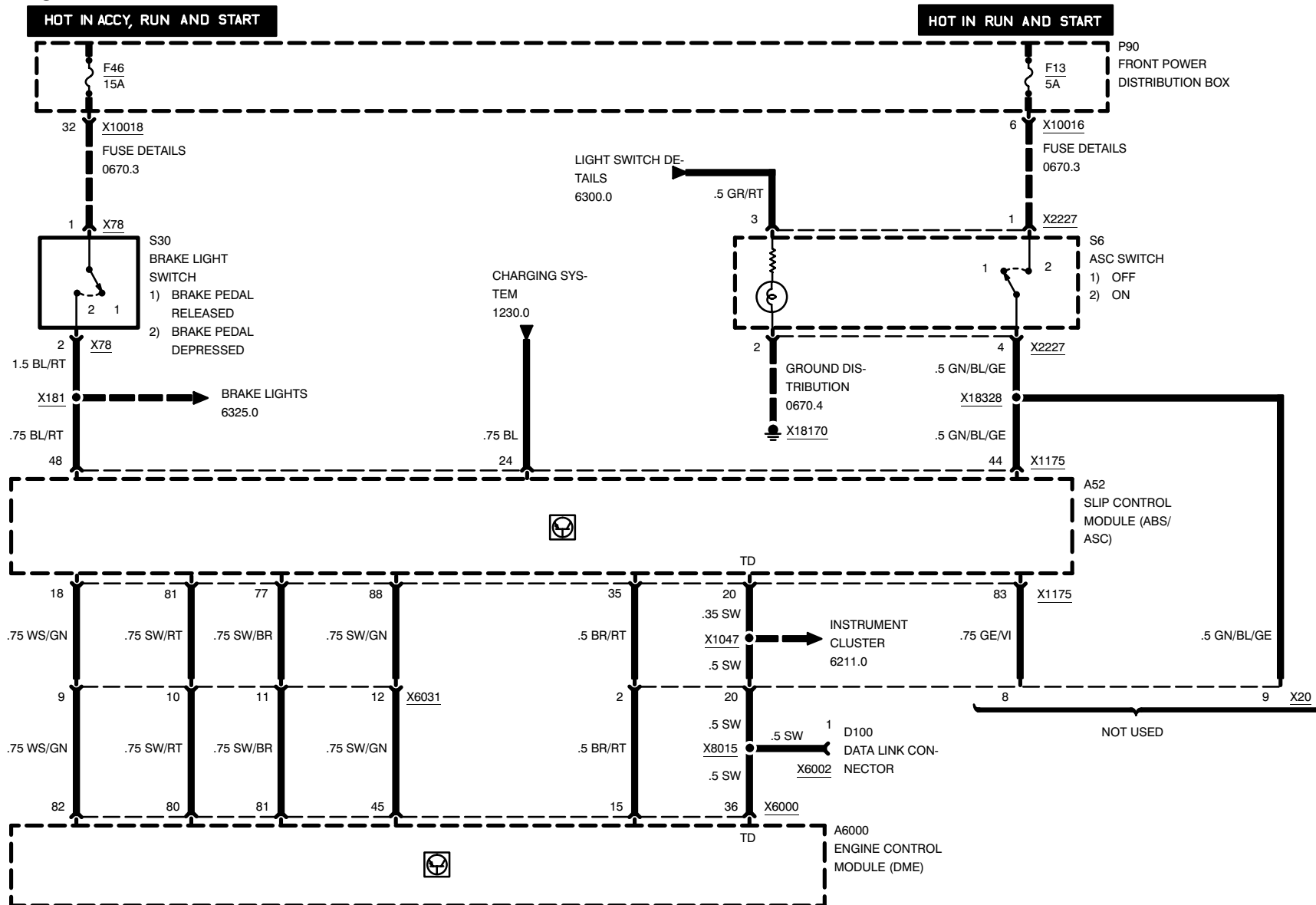
SLIP CONTROL (ABS/ASC)





SLIP CONTROL (ABS/ASC)

Z3

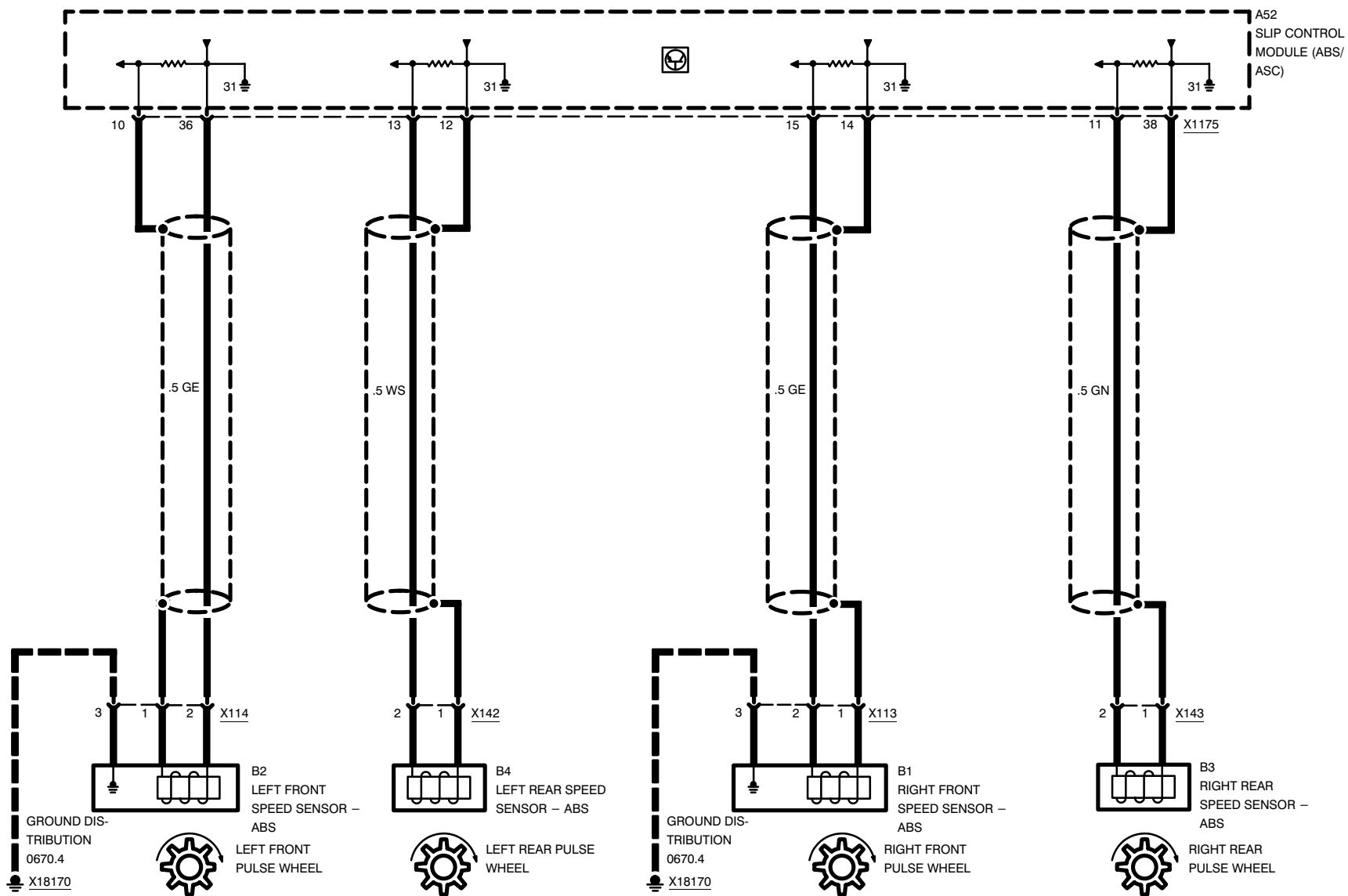


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3450.1-03

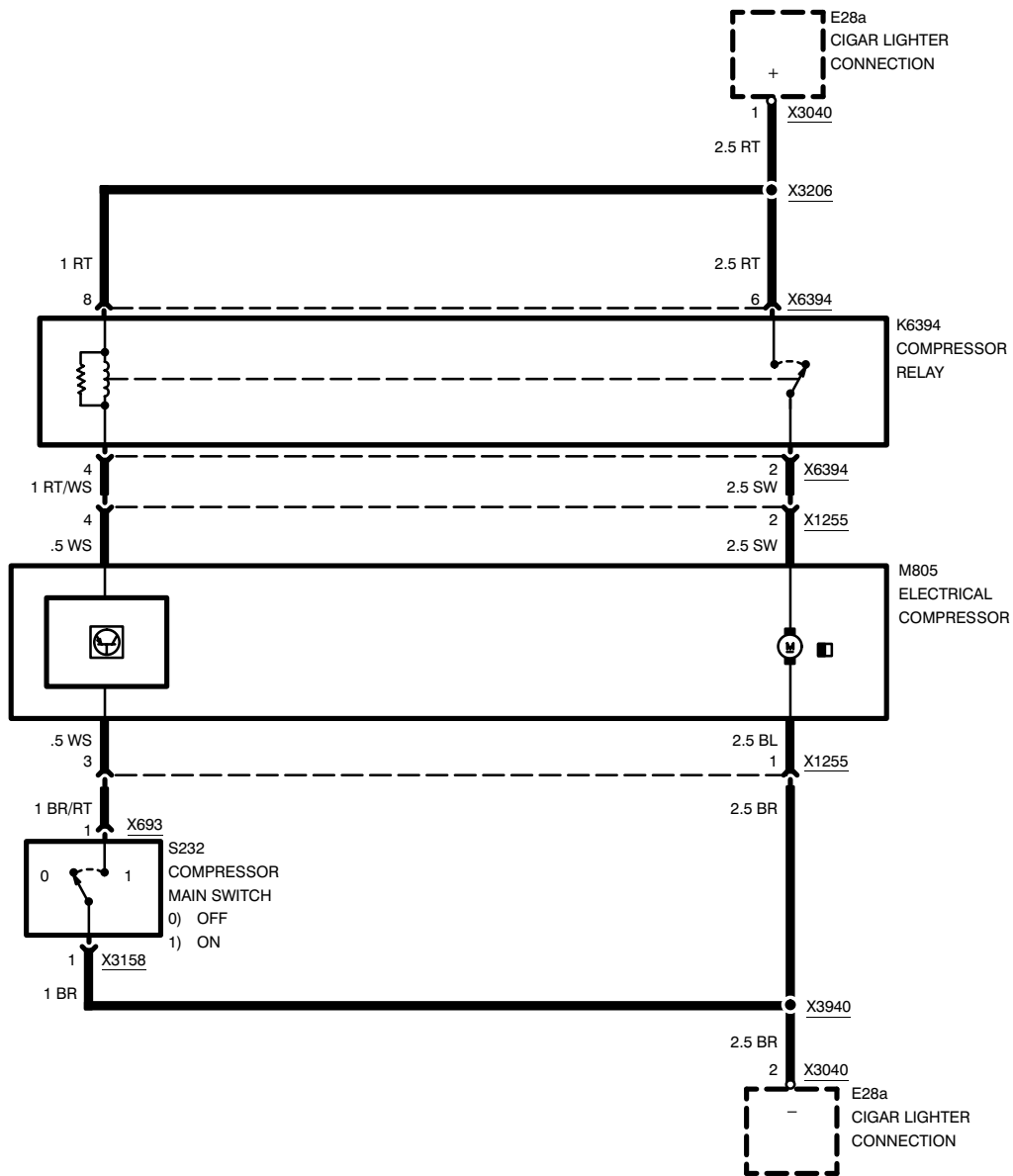
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SLIP CONTROL (ABS/ASC)





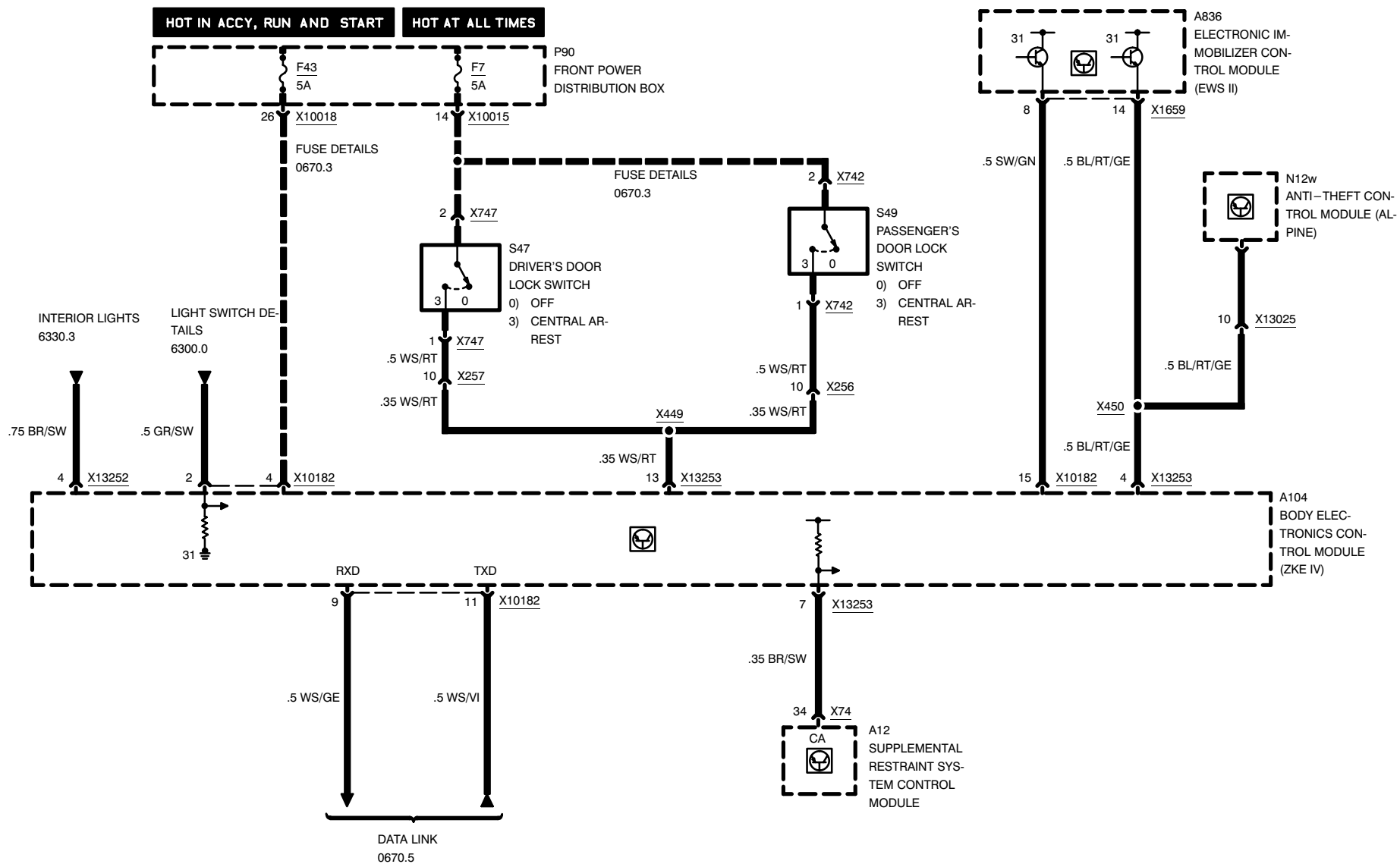
TYPE INFLATION SYSTEM





ZKE CENTRAL LOCKING (ZV)

INPUTS, DRIVE-AWAY PROTECTION

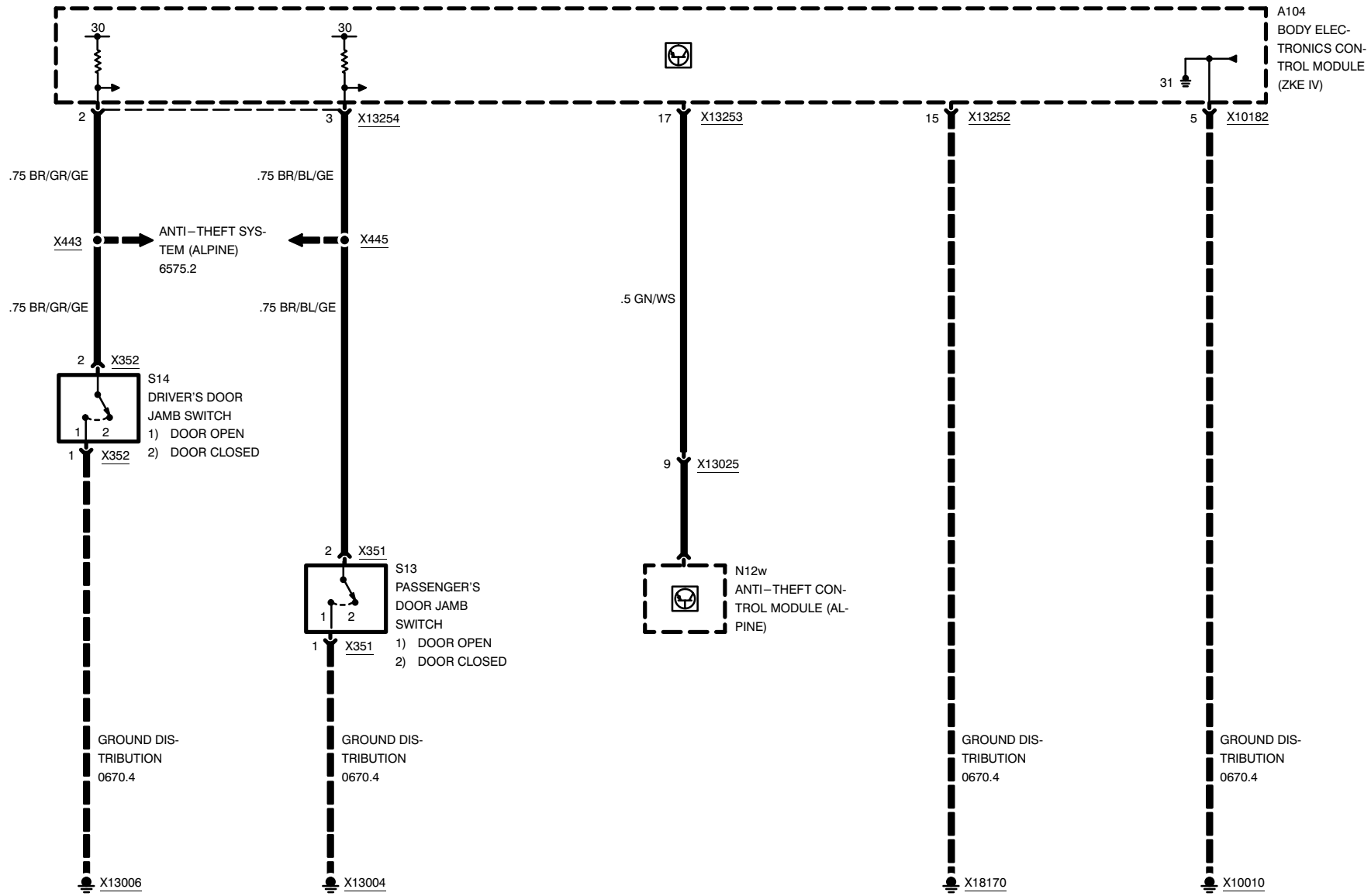




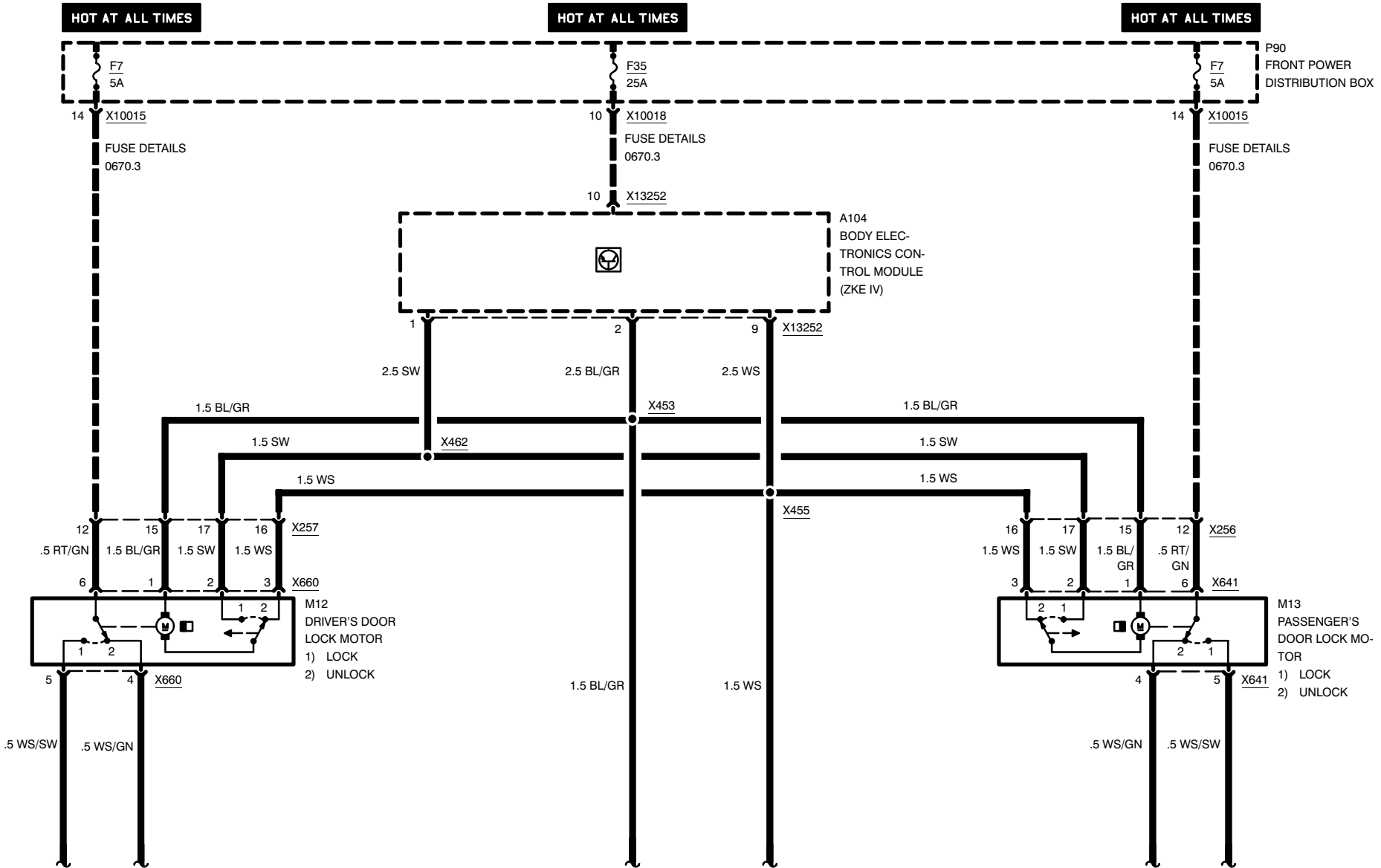
ZKE CENTRAL LOCKING (ZV)

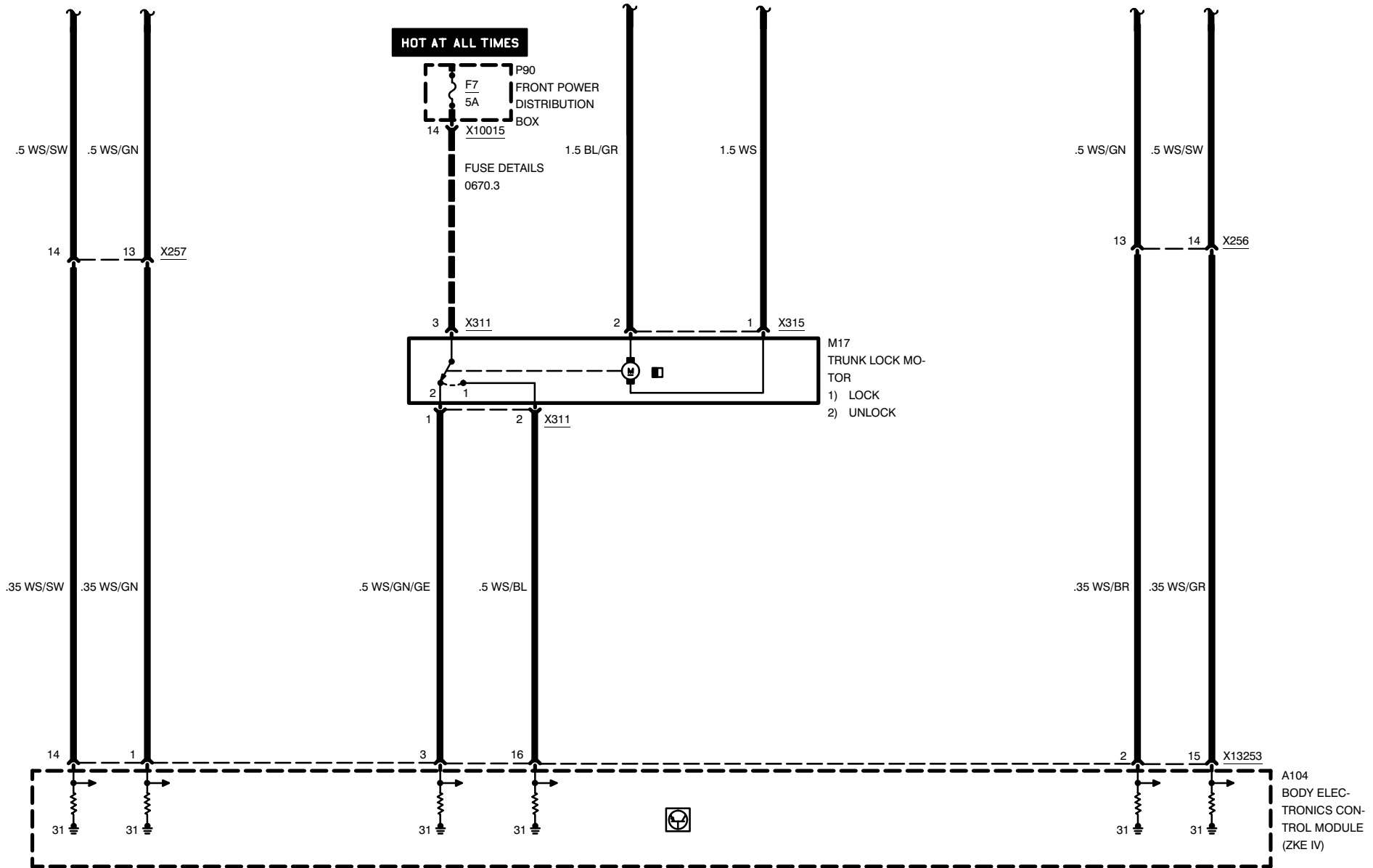
INPUT DETAILS

Z3

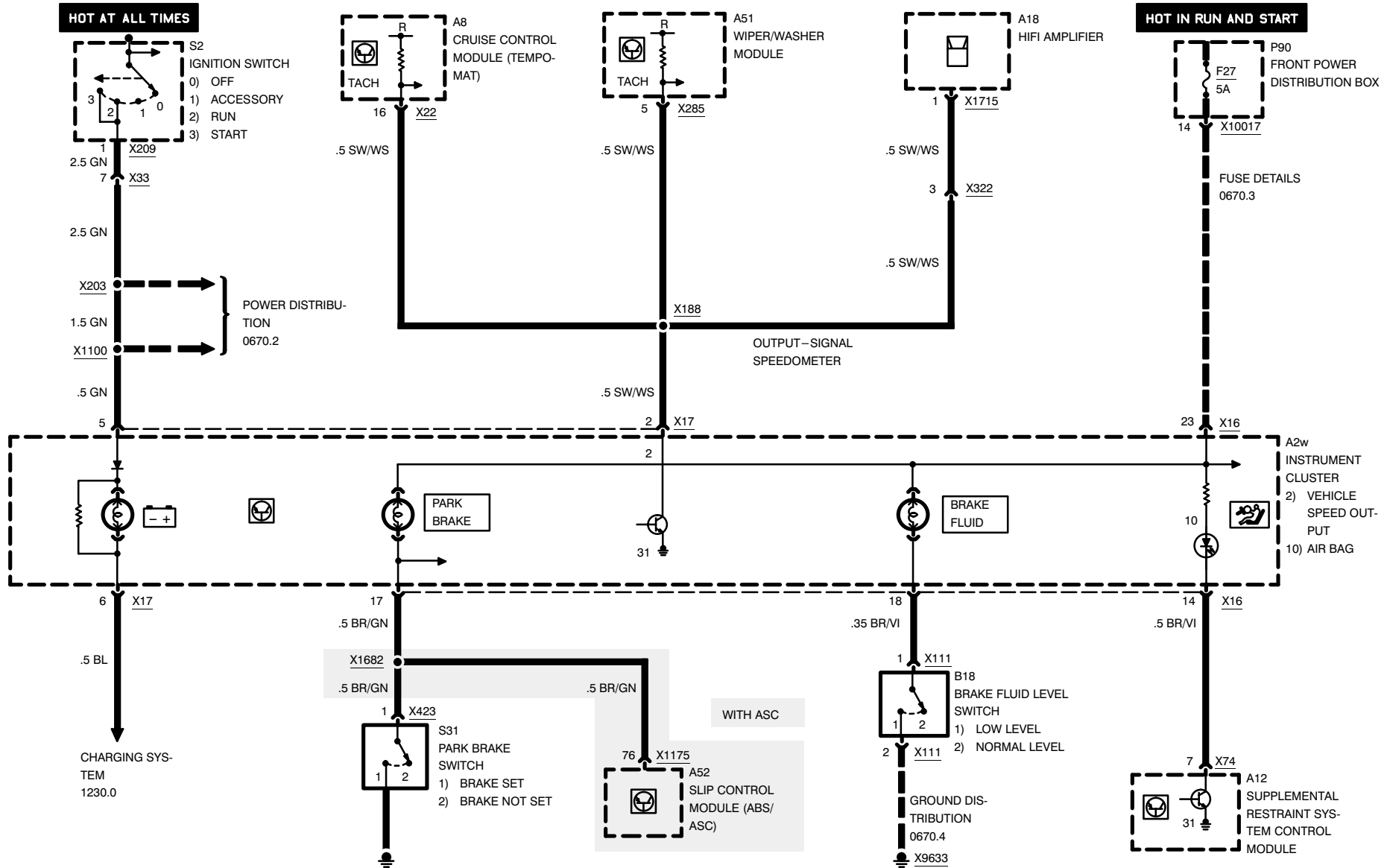


ZKE CENTRAL LOCKING (ZV) OUTPUT DETAILS



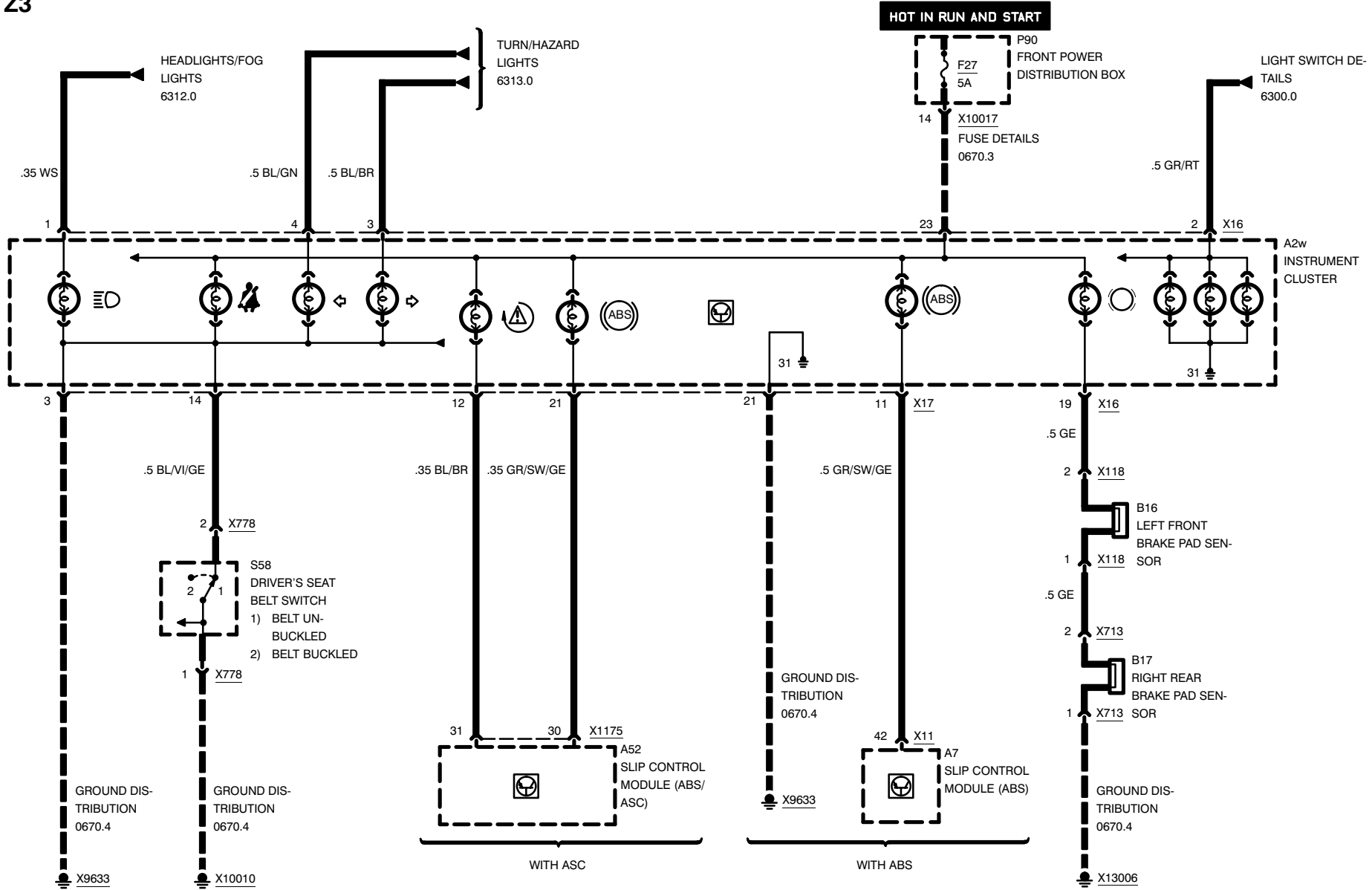


INSTRUMENT CLUSTER INDICATORS





INSTRUMENT CLUSTER INDICATORS



03/98

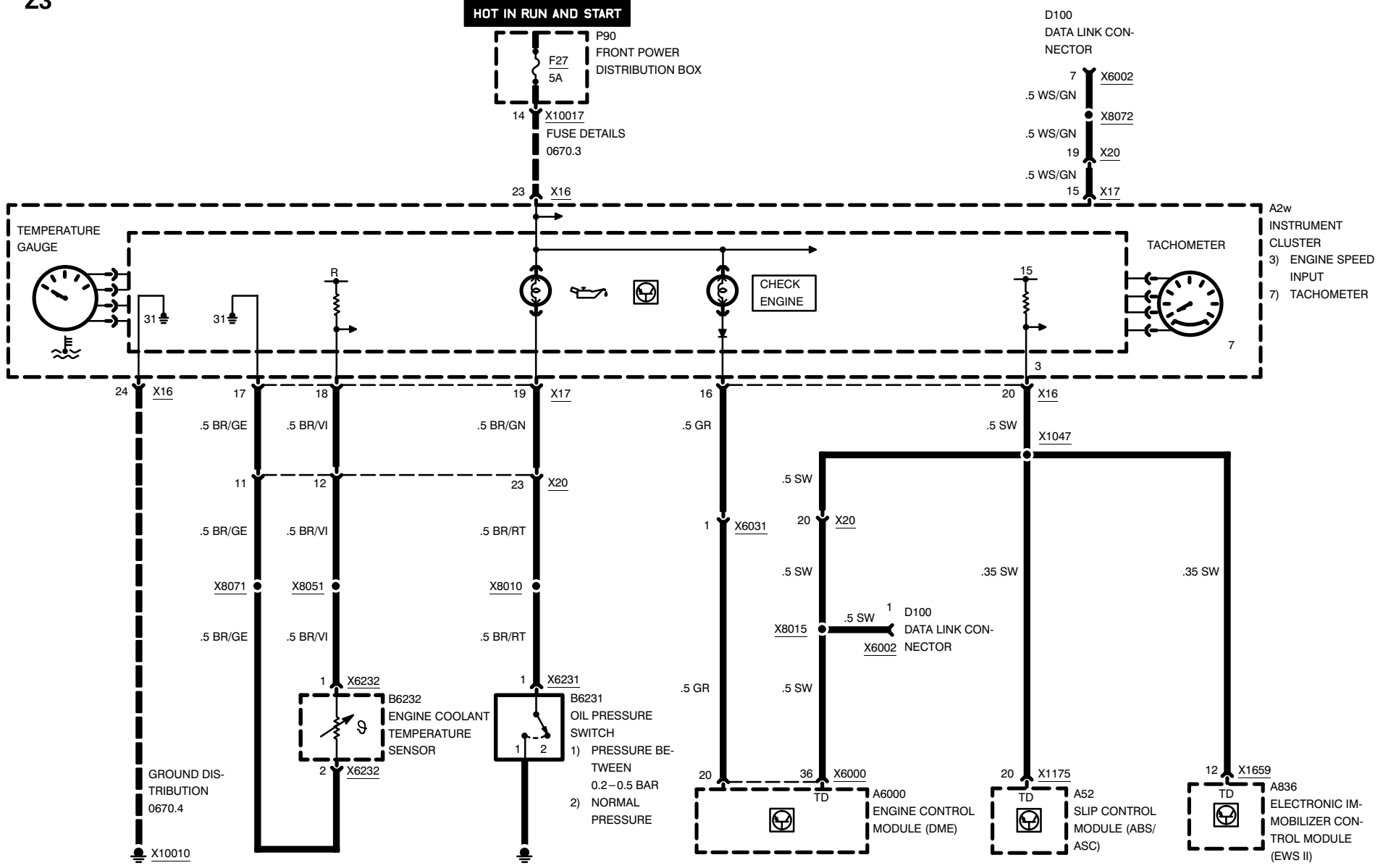
6211.0-01

1998



INSTRUMENT CLUSTER INDICATORS

HOT IN RUN AND START

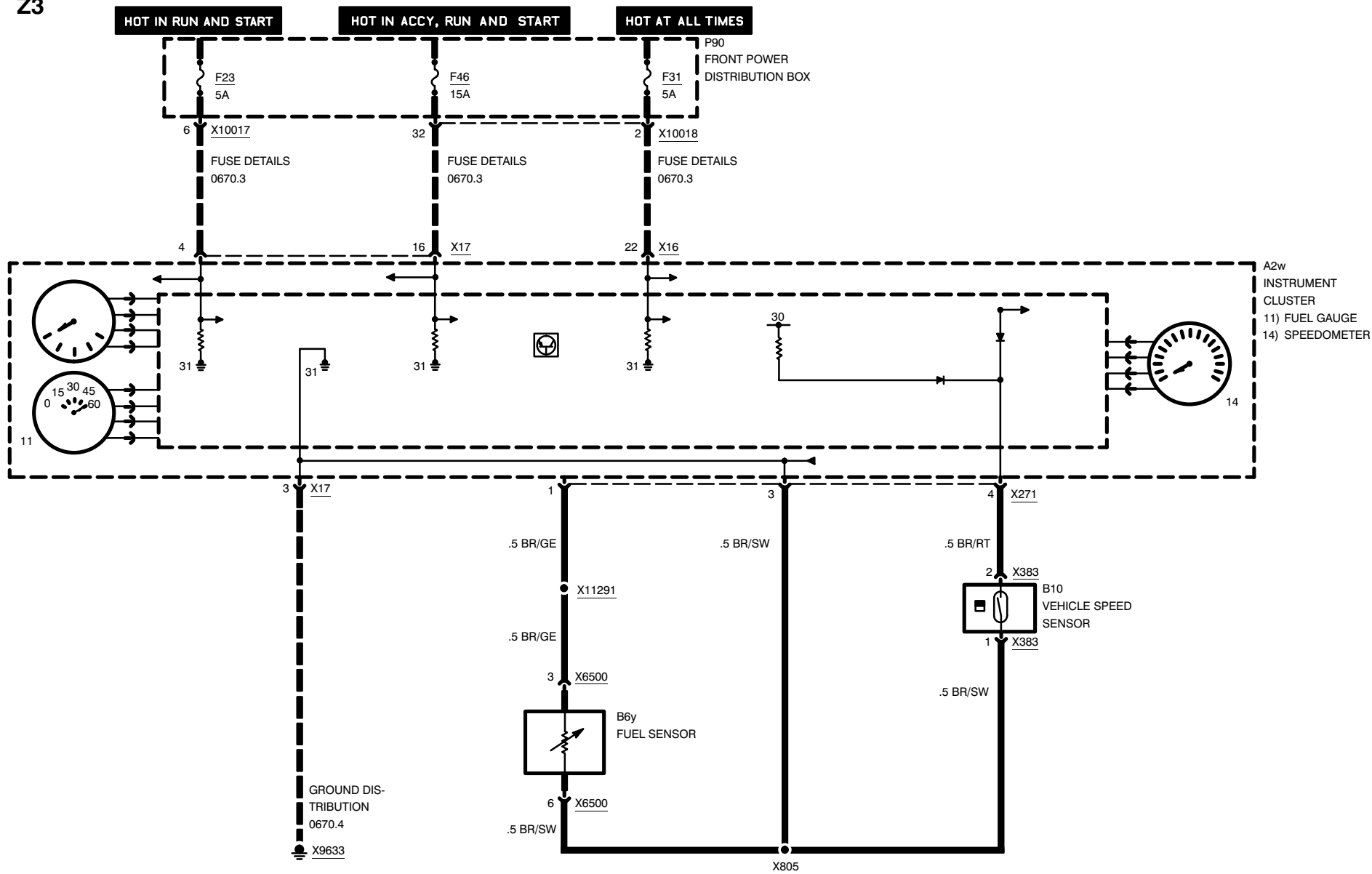




INSTRUMENT CLUSTER

INDICATORS

Z3

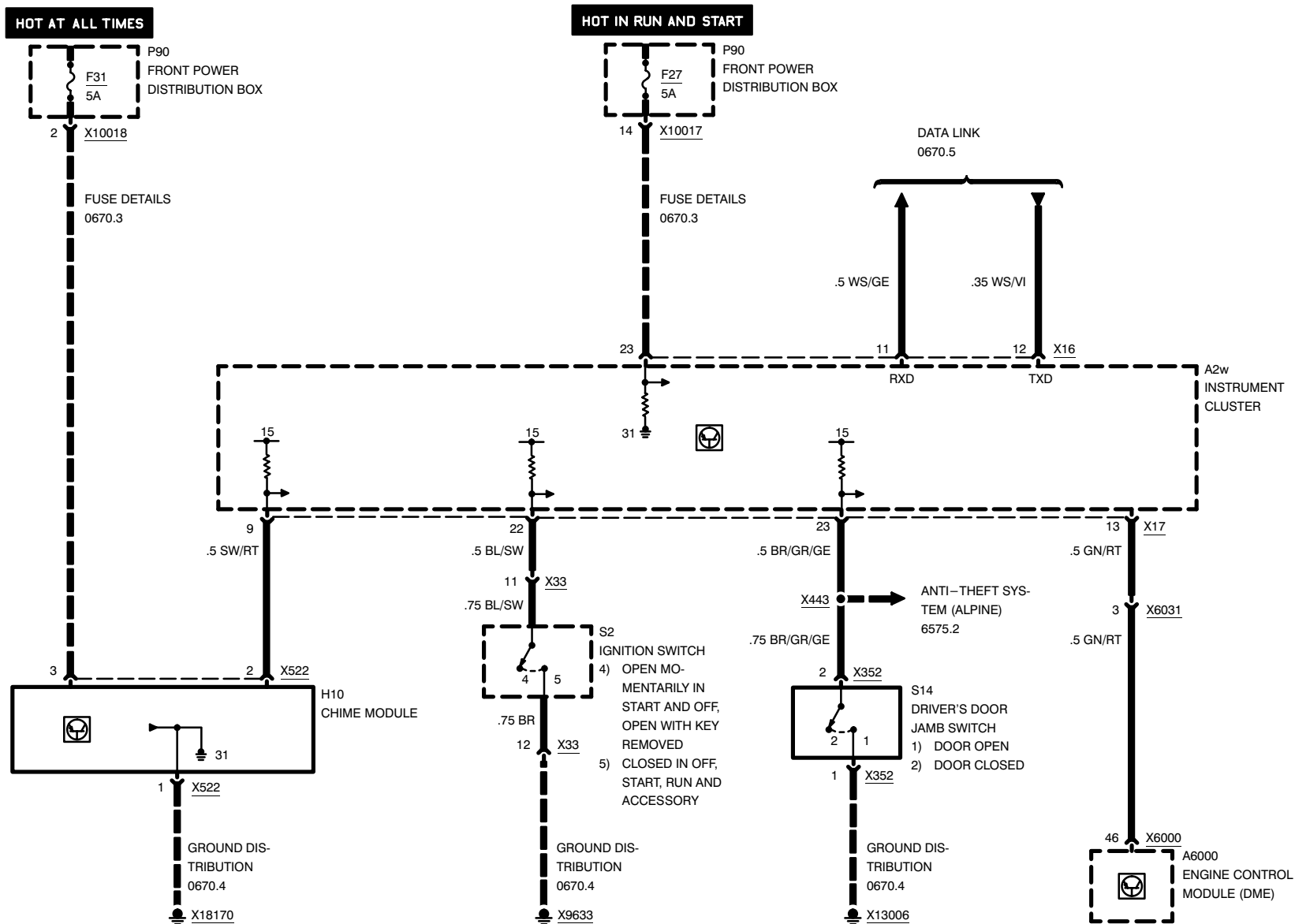


02/98

6211.0-03

1998

INSTRUMENT CLUSTER

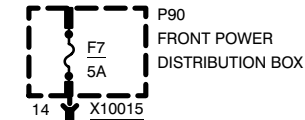




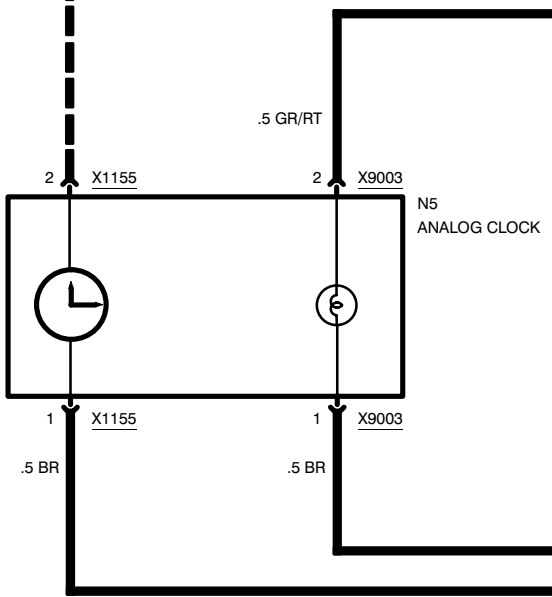
INSTRUMENT CLUSTER

CONSOLE INSTRUMENTS

HOT AT ALL TIMES

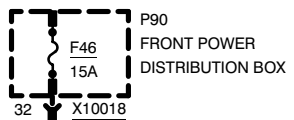


FUSE DETAILS
0670.3

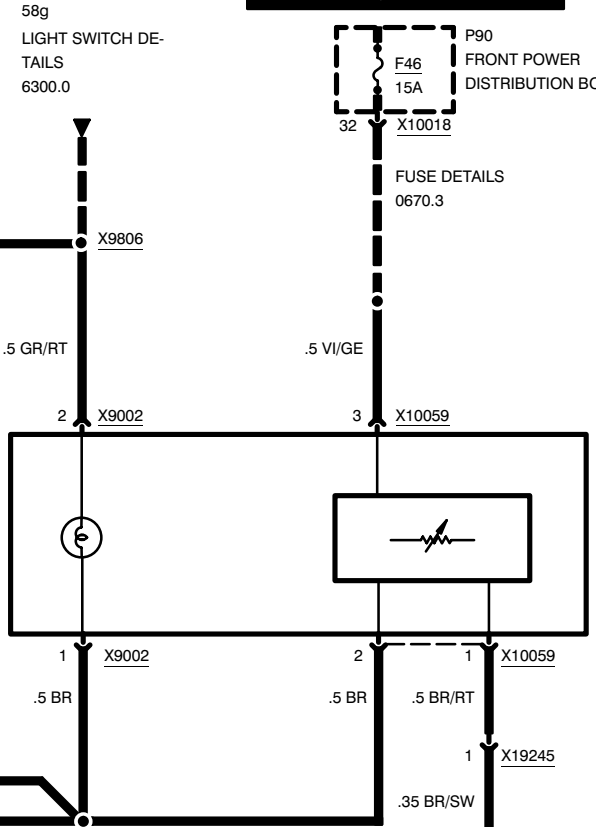


N5
ANALOG CLOCK

HOT IN ACCY, RUN AND START



FUSE DETAILS
0670.3



B59
OIL TEMPERATURE
GAUGE

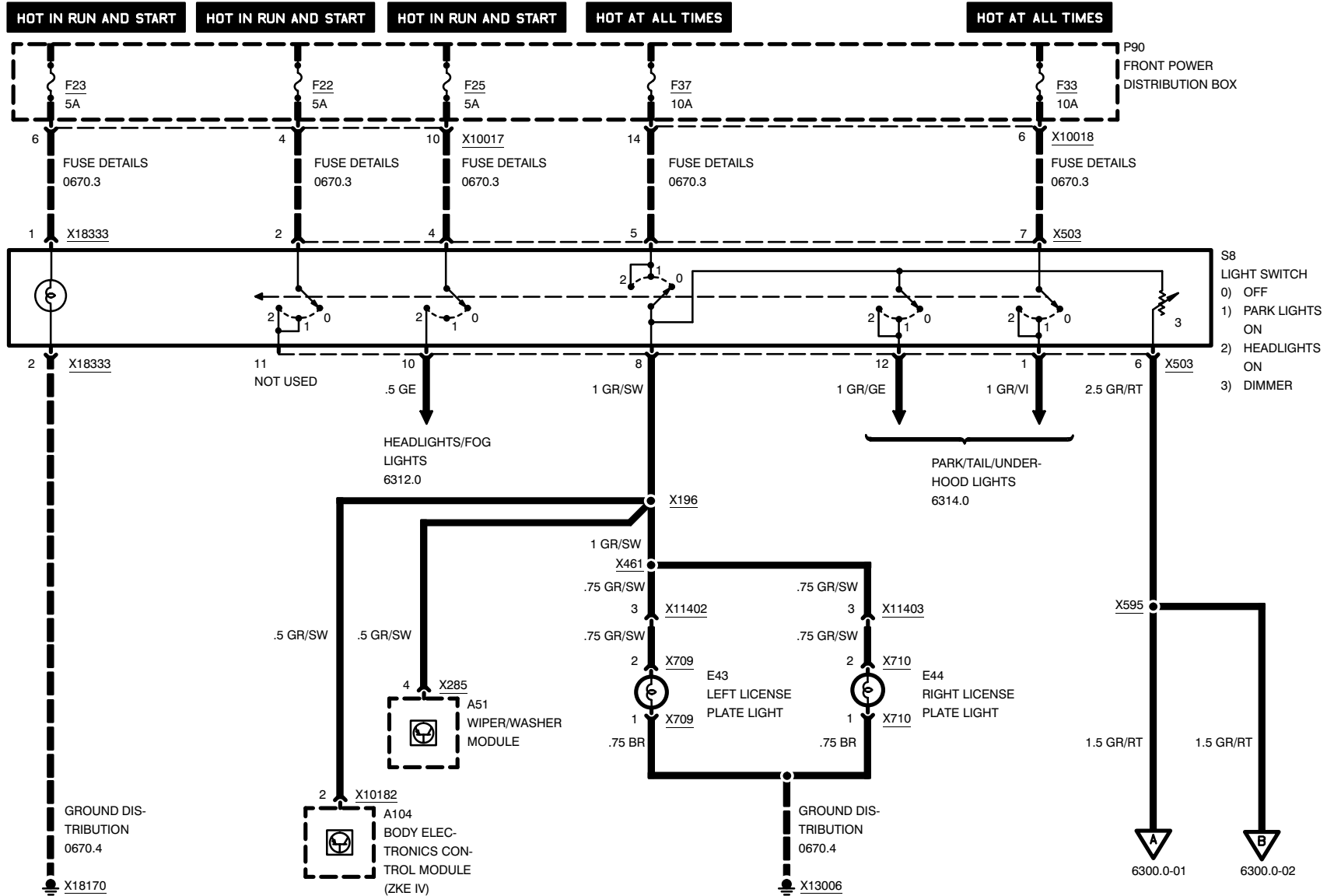
B6238
OIL TEMPERATURE
SENSOR

58g
LIGHT SWITCH DE-
TAILS
6300.0

GROUND DIS-
TRIBUTION
0670.4

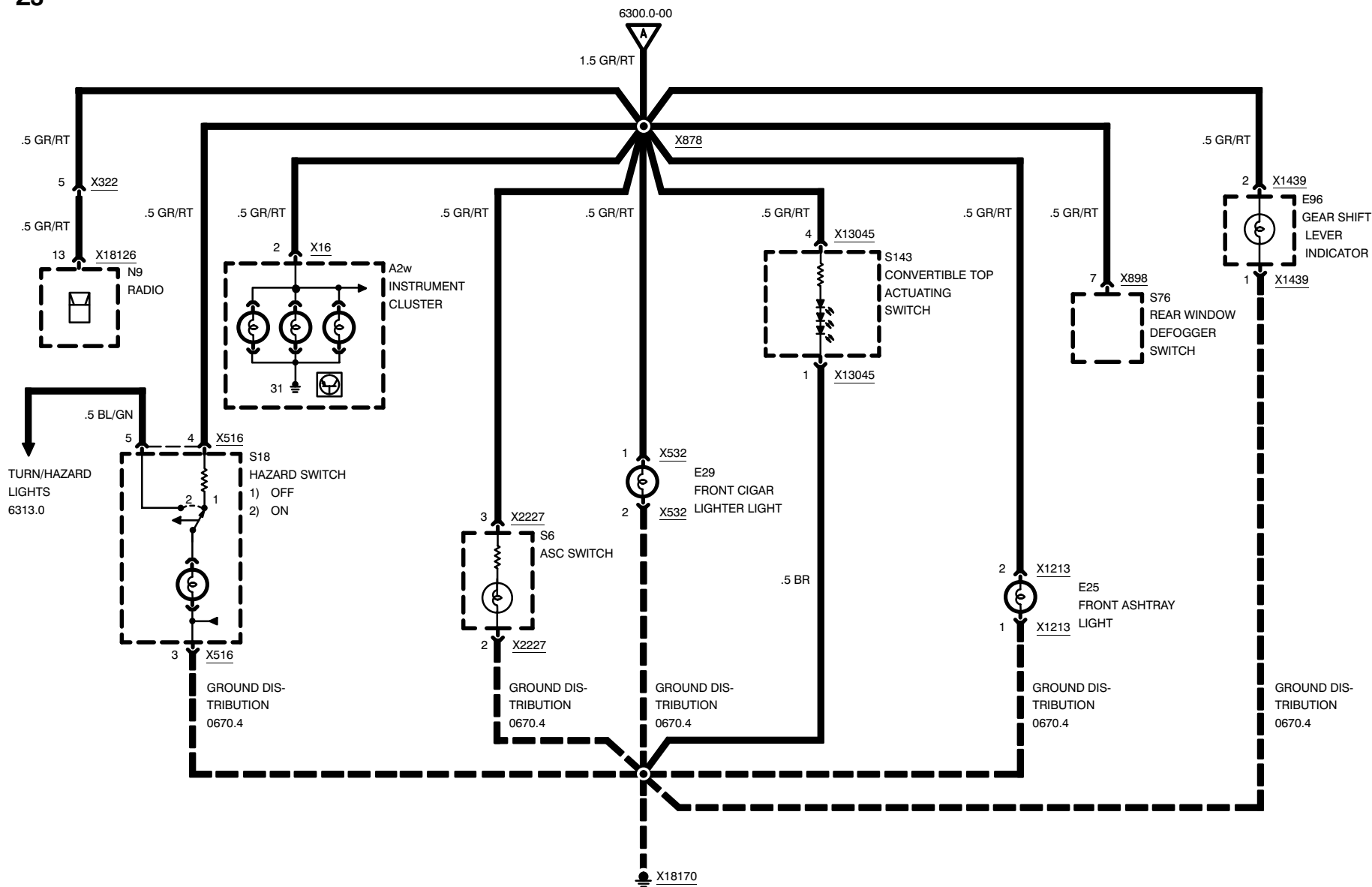
X10010

LIGHT SWITCH DETAILS





LIGHT SWITCH DETAILS



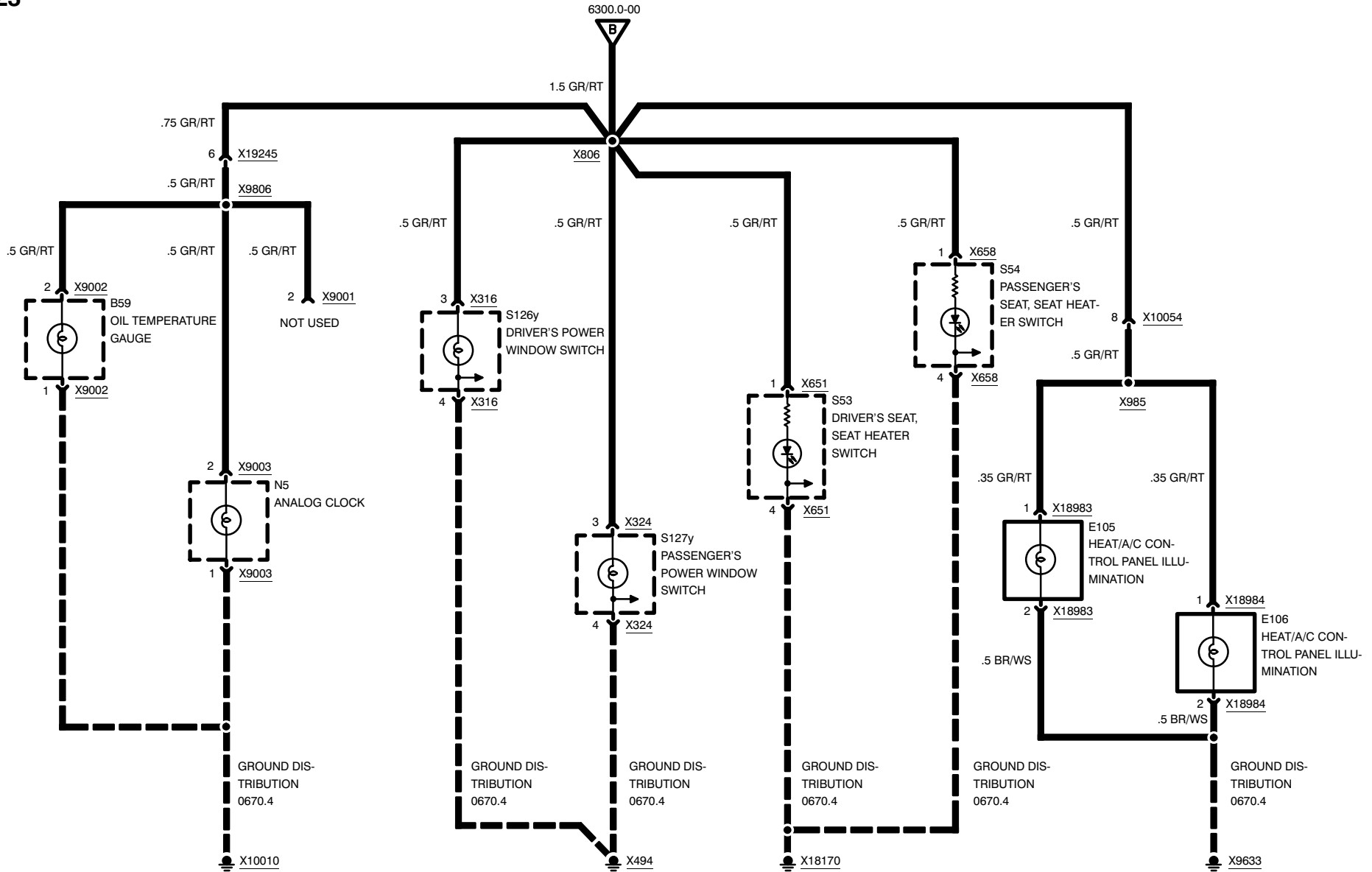
03/98

6300.0-01

1998



LIGHT SWITCH DETAILS



02/98

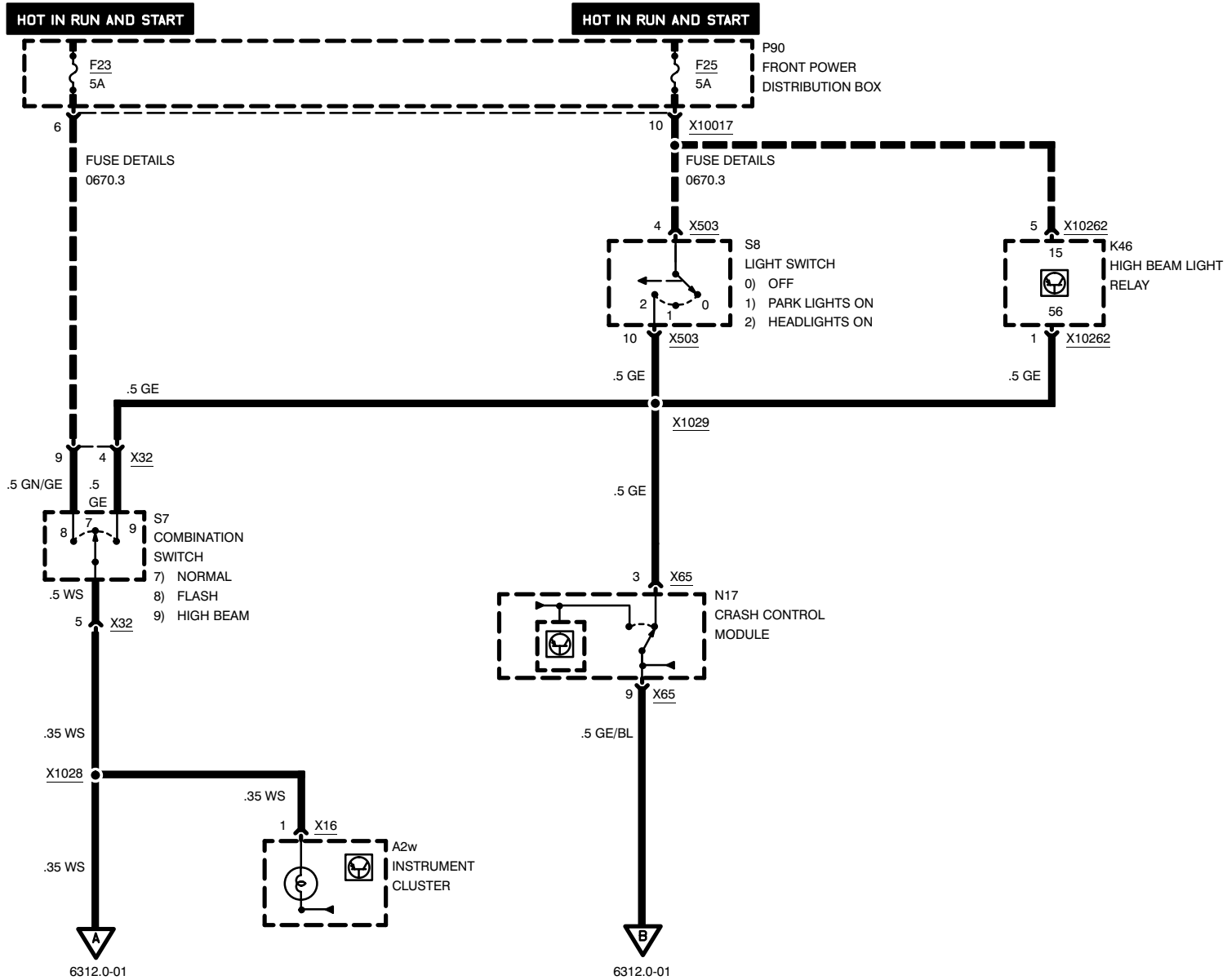
6300.0-02

1998



Z3

HEADLIGHTS/FOG LIGHTS



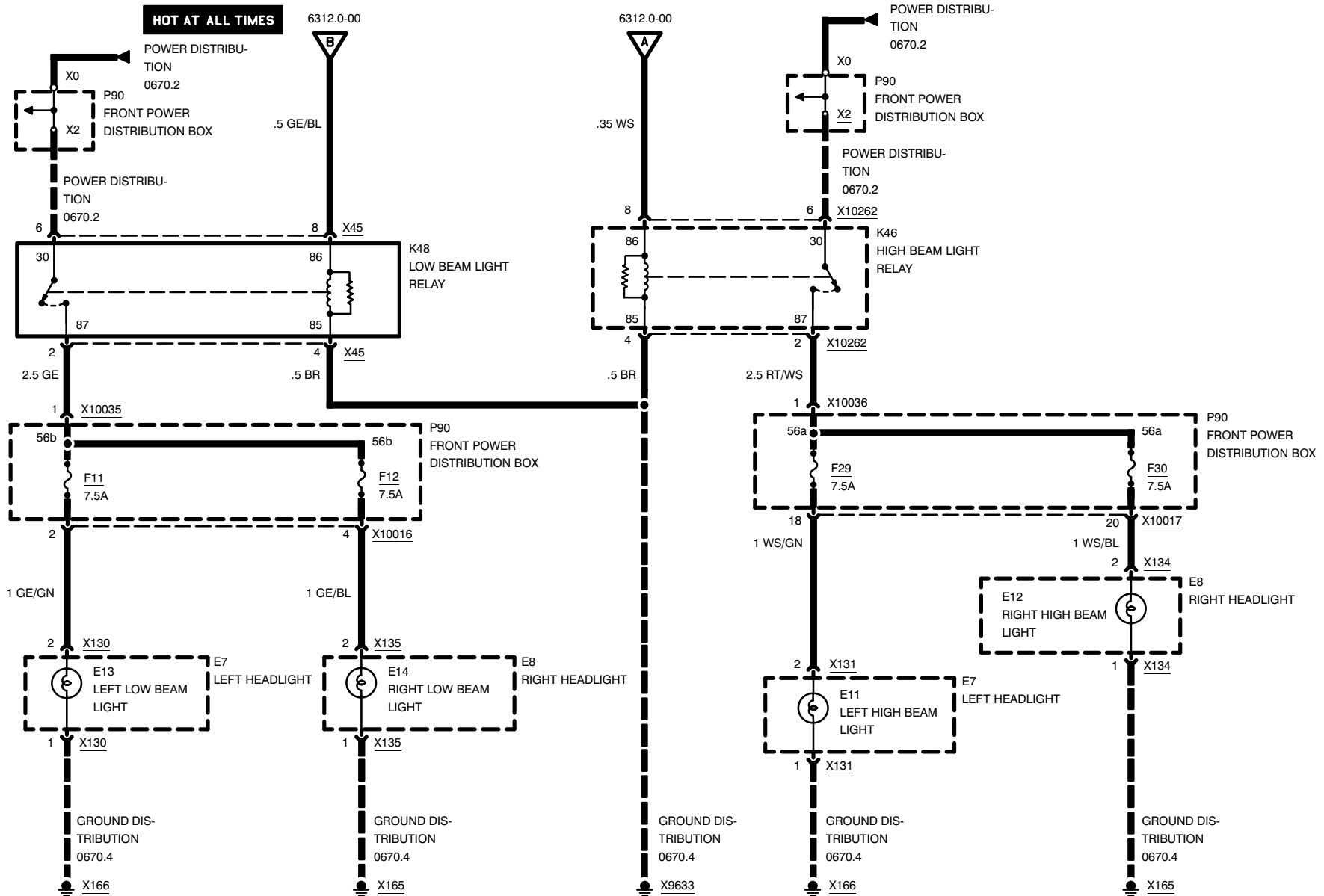
02/98

6312.0-00

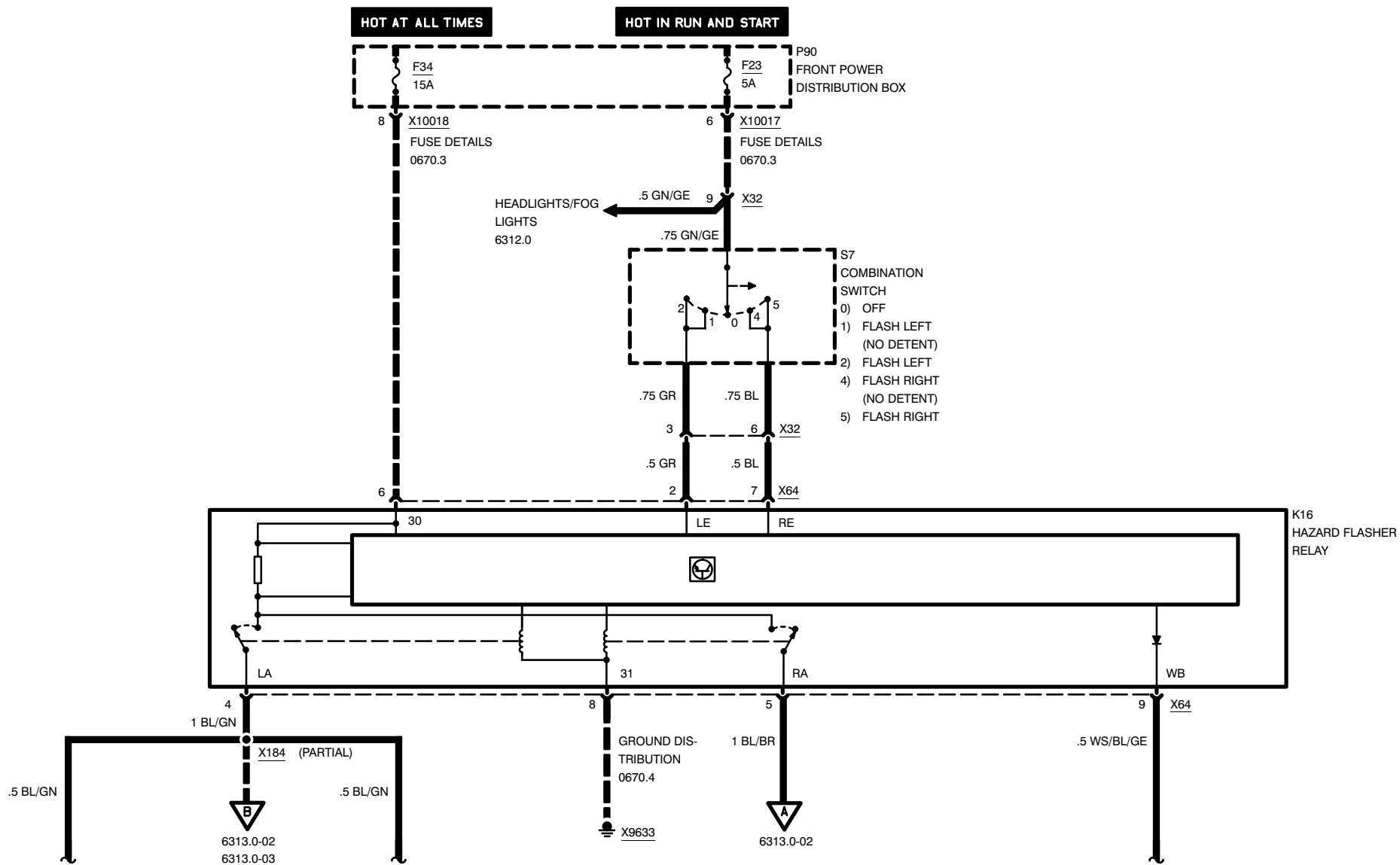
1998

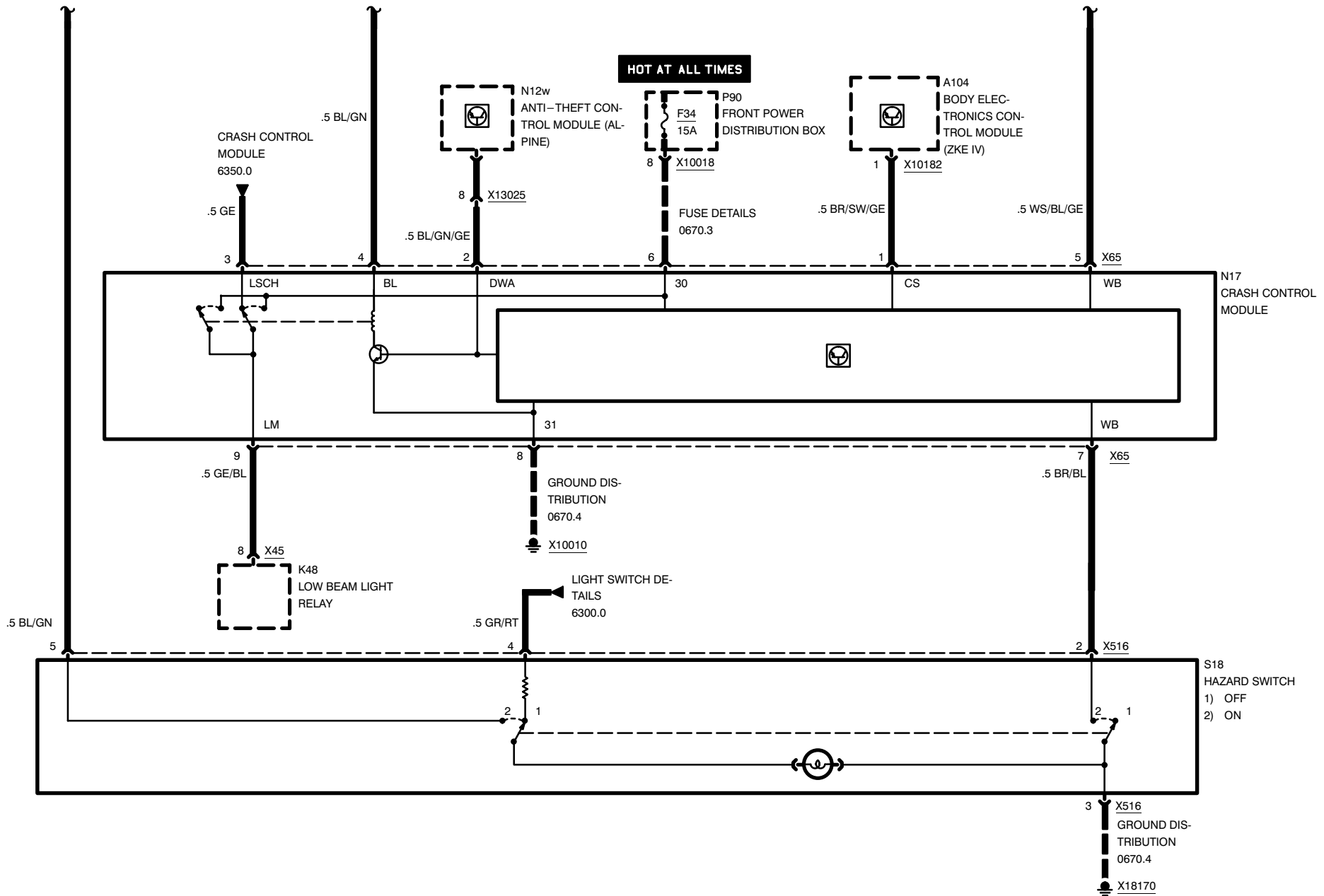


HEADLIGHTS/FOG LIGHTS



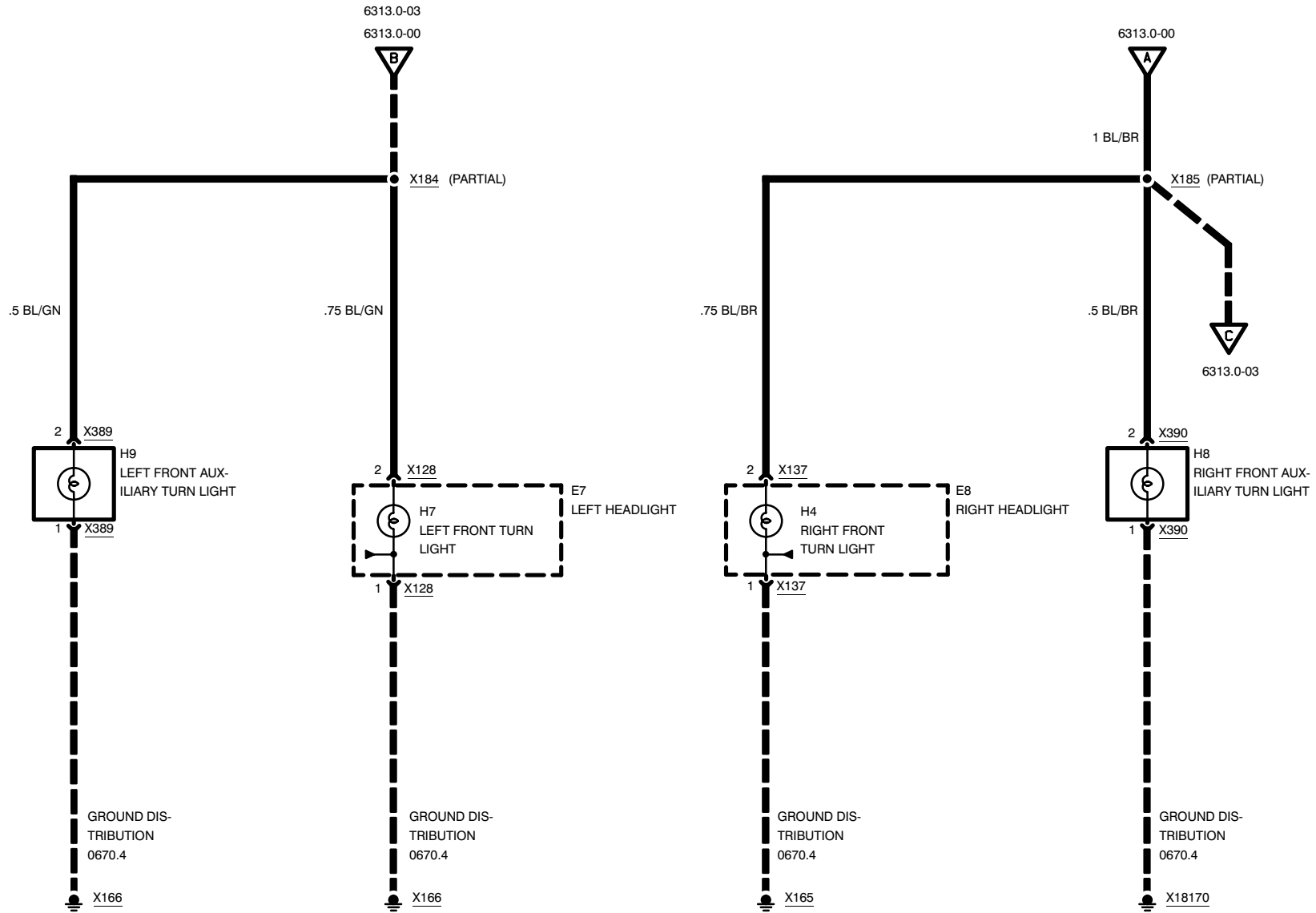
TURN/HAZARD LIGHTS





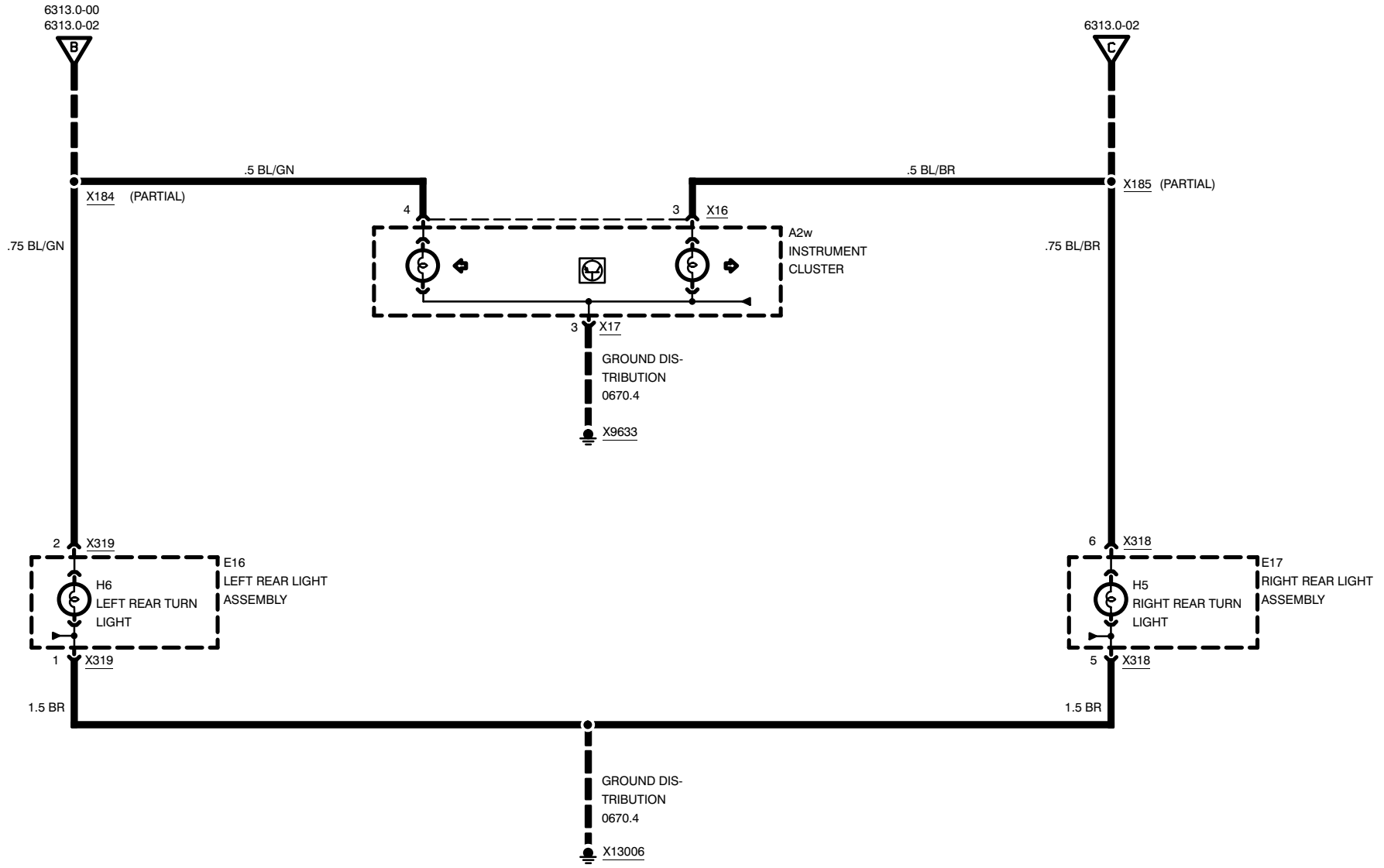


TURN/HAZARD LIGHTS





TURN/HAZARD LIGHTS

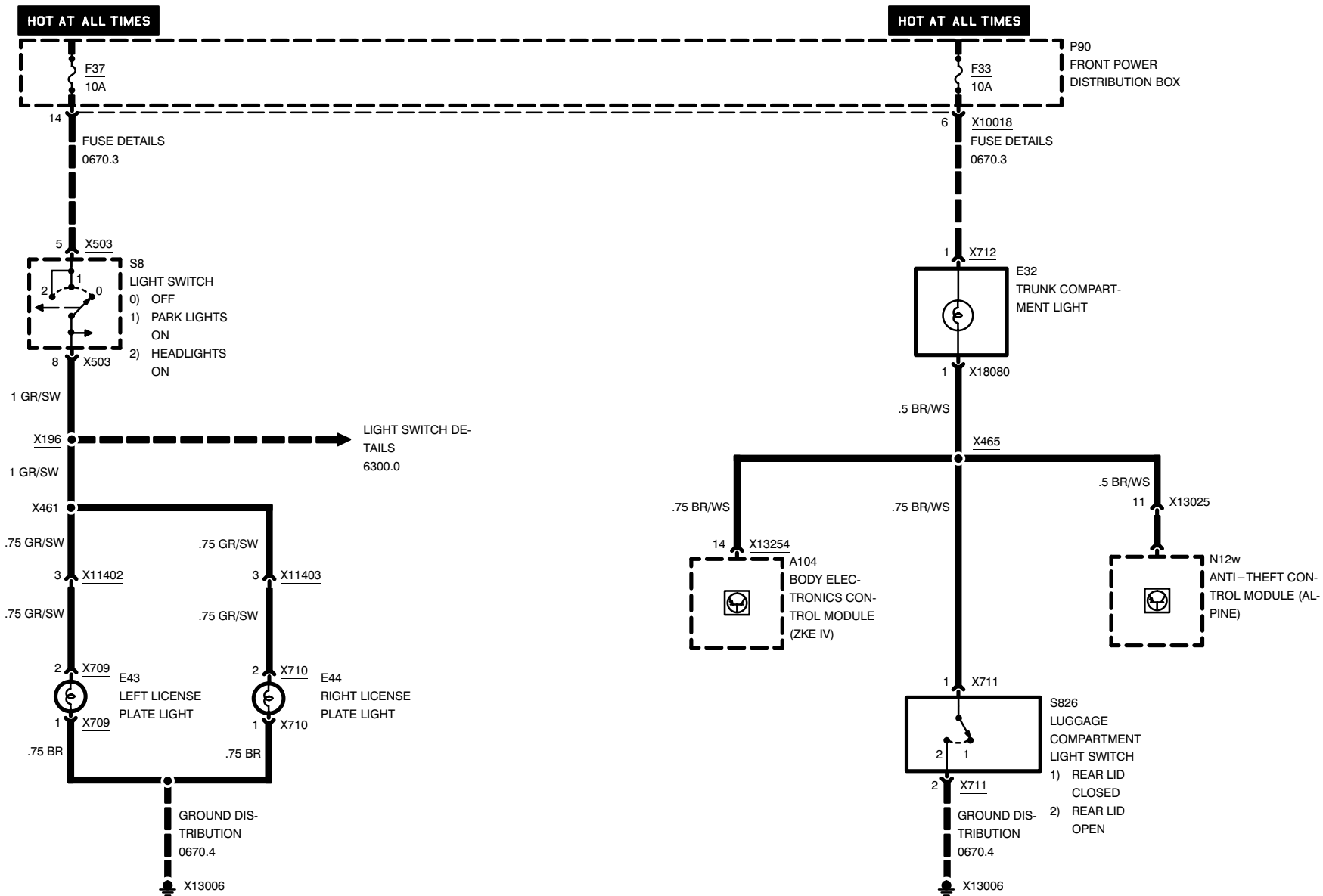


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6313.0-03

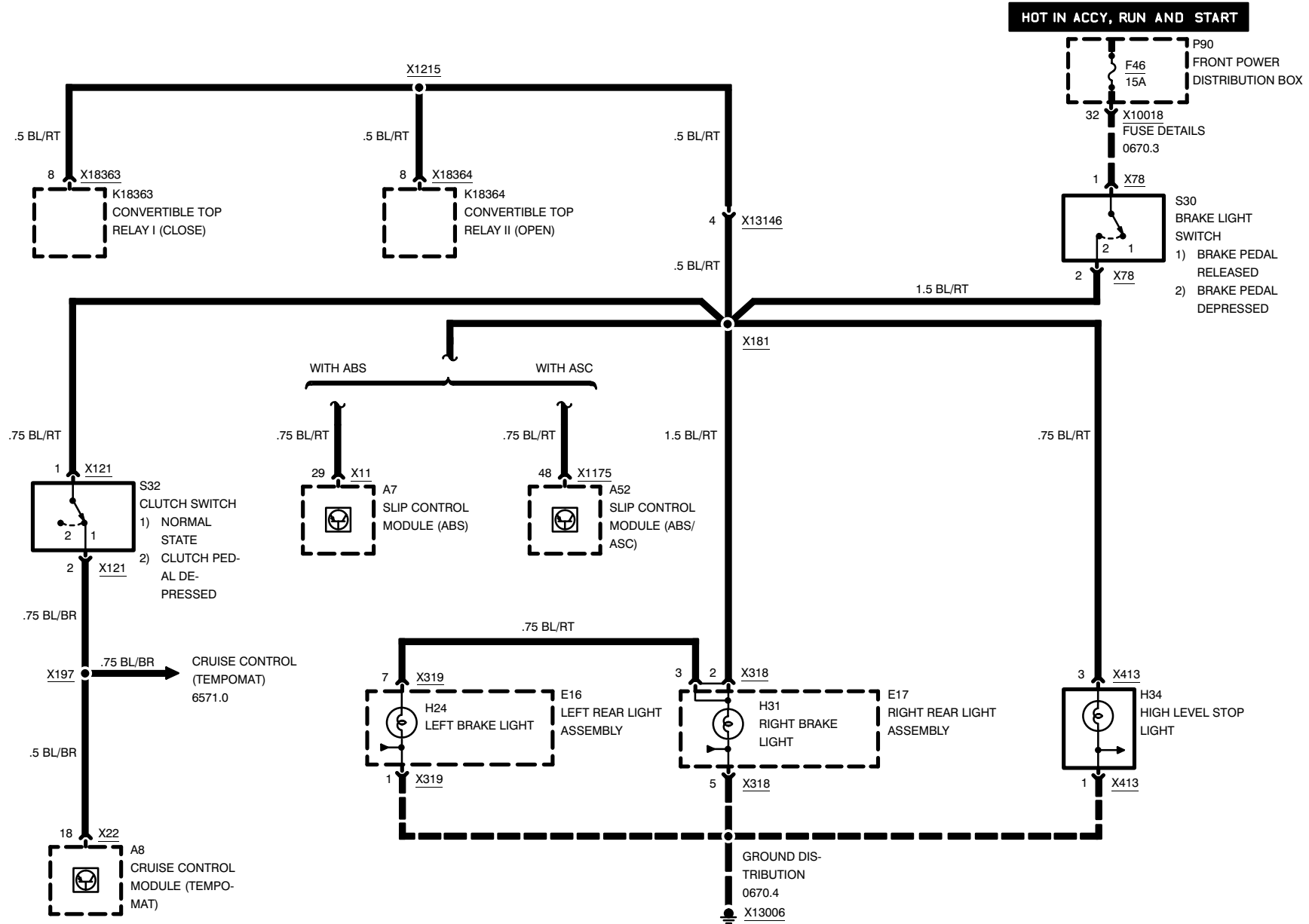
1998

LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS





BRAKE LIGHTS



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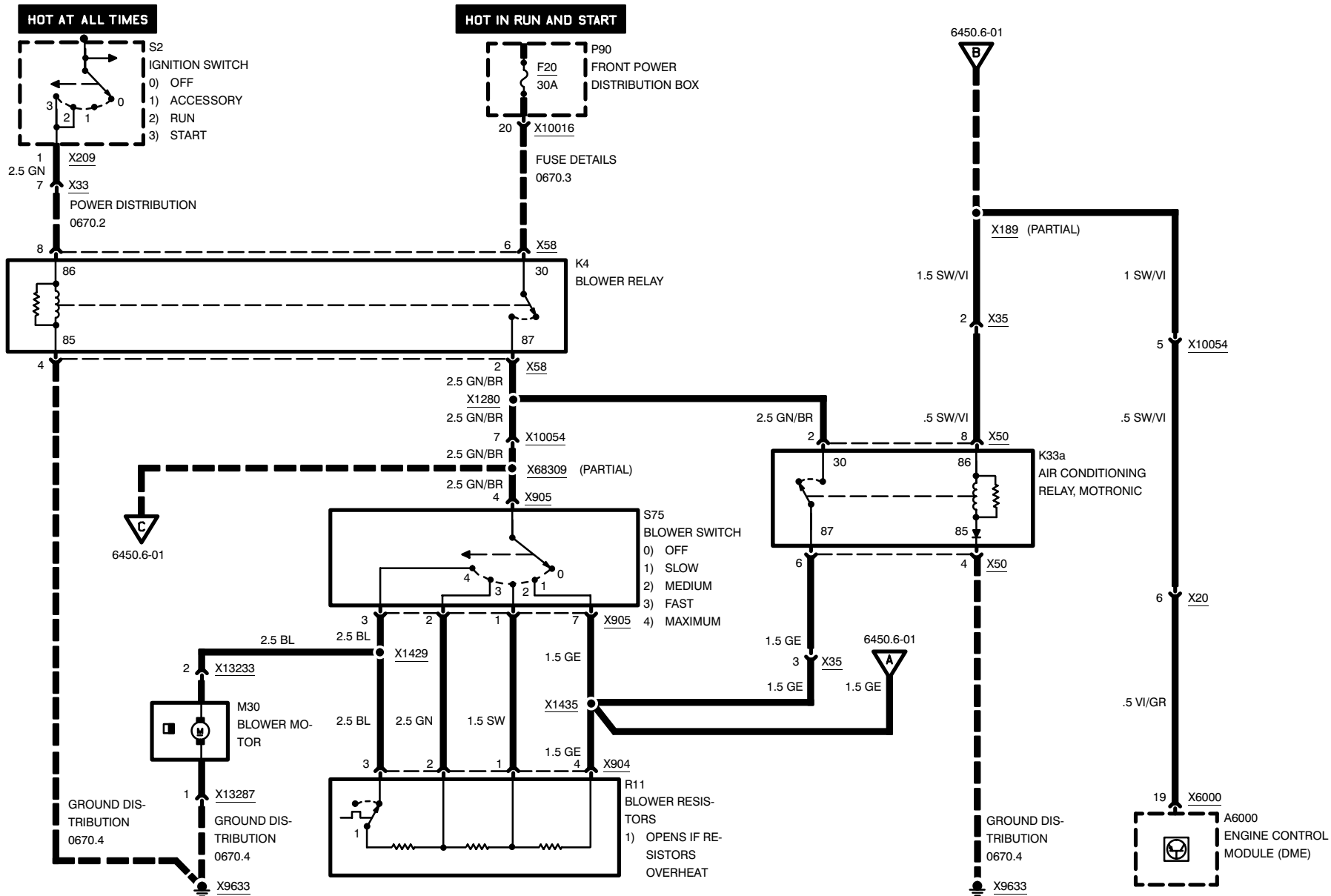
6325.0-00

1998



INTEGRATED HEATING – AND CLIMATE CONTROL

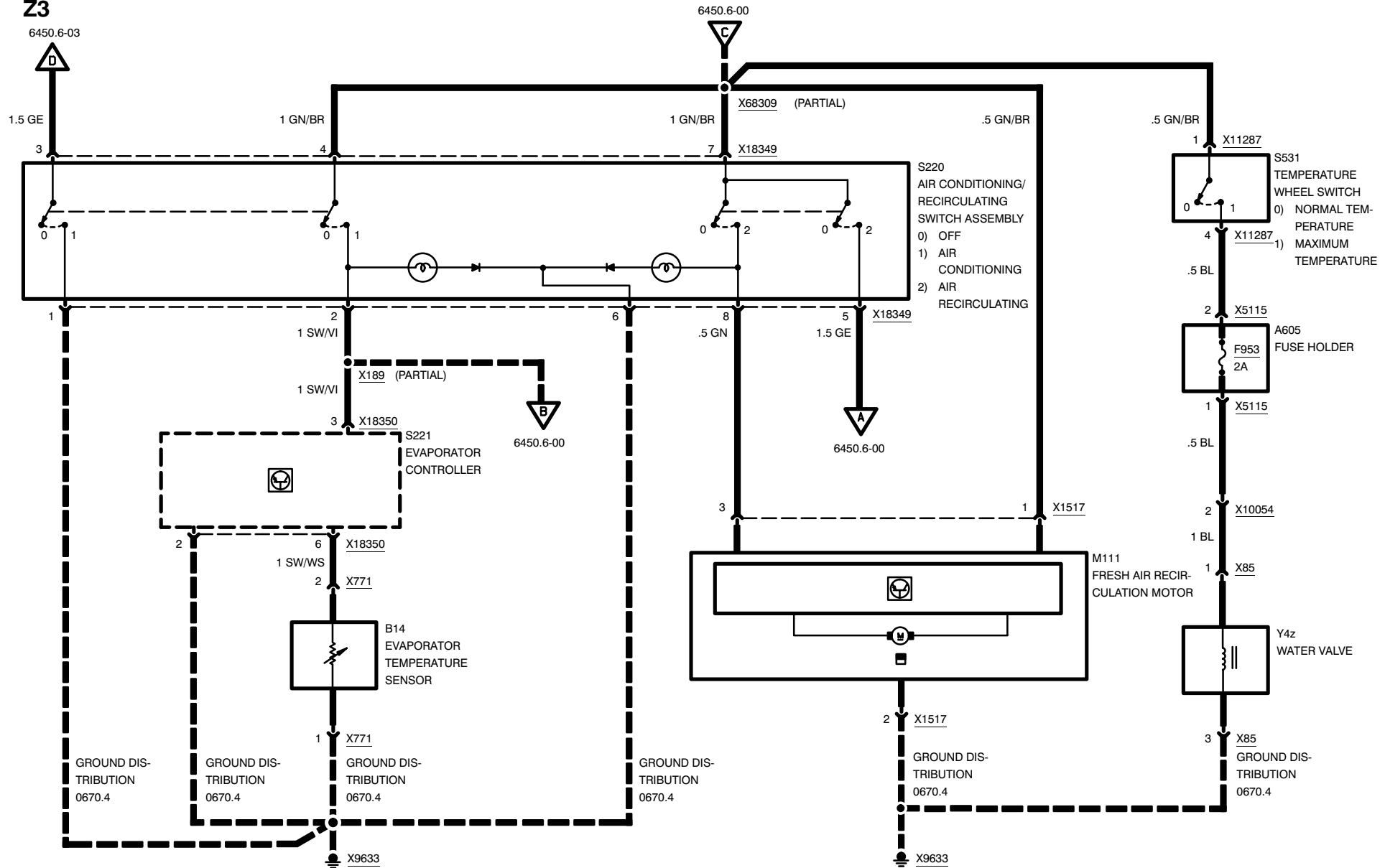
POWER, AIR FLOW CONTROL





INTEGRATED HEATING – AND CLIMATE CONTROL

Z3



02/98

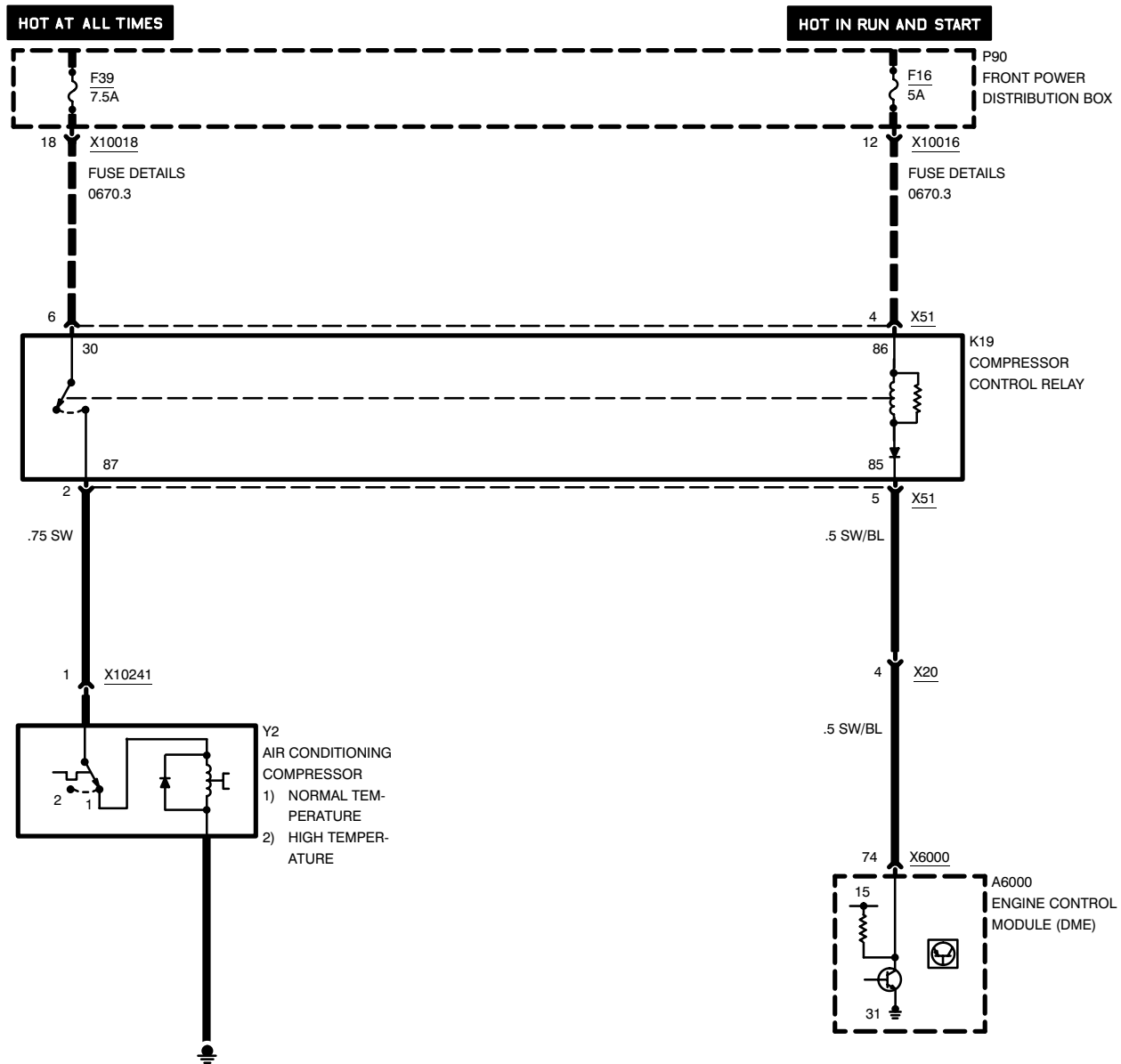
6450.6-01

1998



INTEGRATED HEATING – AND CLIMATE CONTROL

COMPRESSOR CONTROL AND WATER SUPPLY

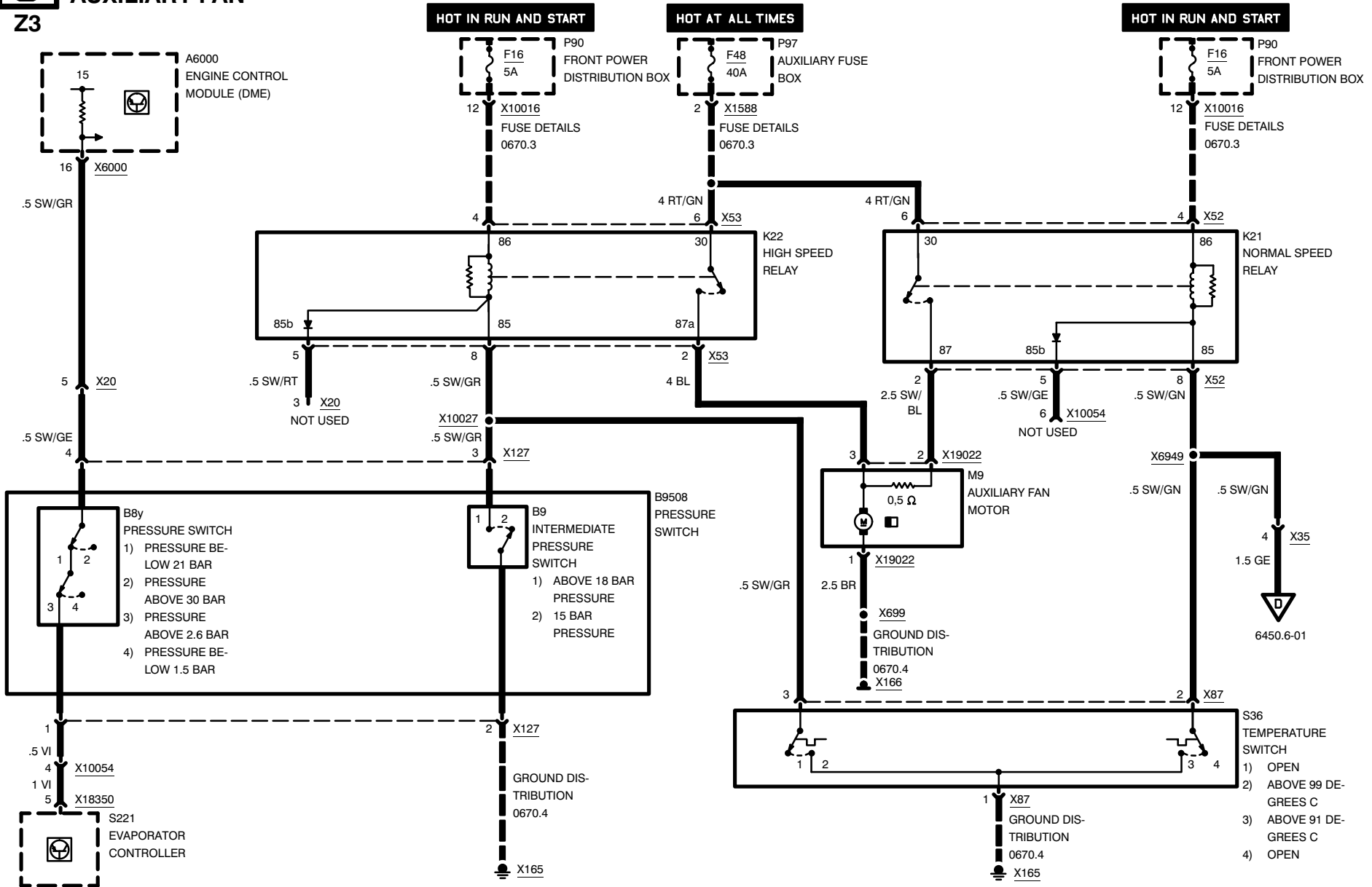




Z3

INTEGRATED HEATING – AND CLIMATE CONTROL

AUXILIARY FAN



02/98

6450.6-03

1998



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A7	SLIP CONTROL MODULE (ABS)	behind glove box		
A52 . . .	SLIP CONTROL MODULE (ABS/ASC)	behind glove box		
B59 . .	OIL TEMPERATURE GAUGE	center console		
B6238	OIL TEMPERATURE SENSOR	RH side of oil filter		
B62101	OXYGEN SENSOR I (IN FRONT OF CAT- ALYTIC CONVERTER)	on catalytic converter		
B62102	OXYGEN SENSOR I (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
B62201	OXYGEN SENSOR II (IN FRONT OF CAT- ALYTIC CONVERTER)	on catalytic converter		
B62202	OXYGEN SENSOR II (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
E28a .	CIGAR LIGHTER CONNECTION	TYRE INFLATION SYSTEM		
E96 . . .	GEAR SHIFT LEVER INDICATOR	center console		
K33a .	AIR CONDITIONING RELAY, MOTRONIC . . .	Power Distribution Box, rear LH side of engine compartment		
K94 . . .	ENGINE CONTROL RELAY (ABS/ASC)	Power Distribution Box, rear LH side of engine compartment		
K95 . . .	VALVE RELAY (ABS/ASC)	Power Distribution Box, rear LH side of engine compartment		
K6394	COMPRESSOR RELAY	TYRE INFLATION SYSTEM		
M805 .	ELECTRICAL COMPRESSOR	TYRE INFLATION SYSTEM		
M6506	E-BOX FAN	in E-Box		
N5 . . .	ANALOG CLOCK	center console		
P95 . . .	AUXILIARY FUSE BOX	below LH side of dash		
S232 .	COMPRESSOR MAIN SWITCH	TYRE INFLATION SYSTEM		

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7000.0-0

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COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X4	GROUND	LH side of engine compartment		
X11	(42 PINS, BLACK)	behind glove box		00-2
X31	(12 PINS, BLACK)	LH side of engine compartment		00-3
X35	(4 PINS, BLACK)	RH side of LH footwell		00-4
X50	(9 PINS, BLACK)	Power Distribution Box, rear LH side of engine compartment		00-1
X693	(1 PIN, NATURAL)	TYRE INFLATION SYSTEM		
X1155	(2 PINS, BLACK)	center console		
X1175	(83 PINS, NATURAL)	behind glove box		02-1
X1255	(4 PINS, BLACK)	TYRE INFLATION SYSTEM		00-4
X1439	(2 PINS, BLACK)	center console		
X2213	(15 PINS, NATURAL)	LH side of engine compartment		02-2
X2227	(4 PINS, BLUE)	center console		02-3
X3040	(2 PINS, BLACK)	TYRE INFLATION SYSTEM		
X3158	(1 PIN, NATURAL)	TYRE INFLATION SYSTEM		
X6238	(2 PINS, BLACK)	RH side of oil filter		
X6394	(9 PINS, BLACK)	TYRE INFLATION SYSTEM		00-1
X6506	(2 PINS, BLACK)	in E-Box		
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		
X9770	(4 PINS, NATURAL)	center console		01-1

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7000.0-1

1998



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10059	(3 PINS, BLACK)	center console		00-5
X10241	(3 PINS, BLACK)	front RH side of engine compartment		01-2
X11402	(3 PINS, YELLOW)	in luggage compartment lid		01-3
X11403	(3 PINS, YELLOW)	in luggage compartment lid		01-3
X18766	(9 PINS, BLACK)	Power Distribution Box, rear LH side of engine compartment		01-1
X18767	(9 PINS, BLACK)	Power Distribution Box, rear LH side of engine compartment		01-1
X19022	(3 PINS, BLACK)	behind front grille		01-2
X19023	(2 PINS, BLACK)	below LH side of dash		
X19245	(8 PINS, BLACK)	center console		01-4
X62101	(4 PINS, BLACK)	on catalytic converter		01-5
X62102	(4 PINS, BLACK)	on catalytic converter		01-5
X62201	(4 PINS, BLACK)	on catalytic converter		01-5
X62202	(4 PINS, BLACK)	on catalytic converter		01-5
Y1	ABS HYDRAULIC UNIT	LH side of engine compartment		
Y1w	ABS HYDRAULIC UNIT	LH side of engine compartment		

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7000.0-2

1998

CONNECTOR VIEWS

FIG. 1

B090002.00

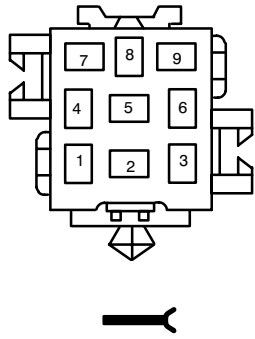


FIG. 2

B420000.00

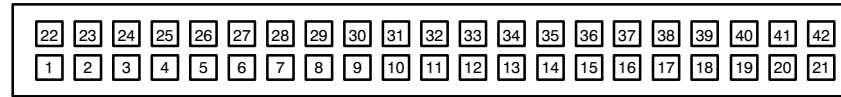


FIG. 3

B120015

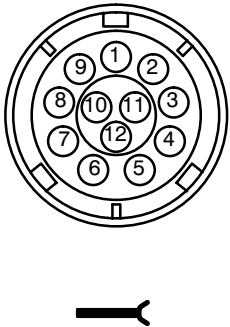


FIG. 4

B040031.00

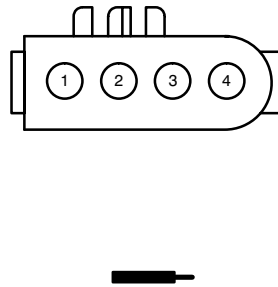
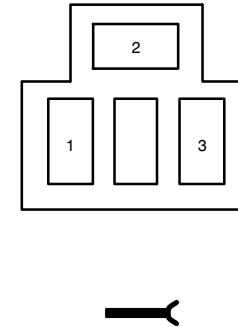


FIG. 5

B030046.00





Z3

CONNECTOR VIEWS

FIG. 1

B040030.00

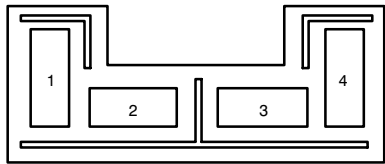


FIG. 2

B030006.00

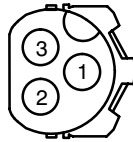


FIG. 3

B030024.01

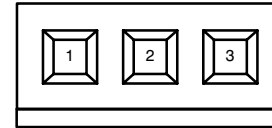


FIG. 4

B080002.00

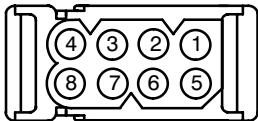


FIG. 5

B040023.00

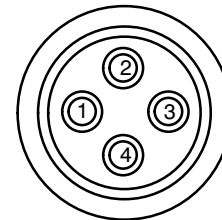


FIG. 1

B830001.00

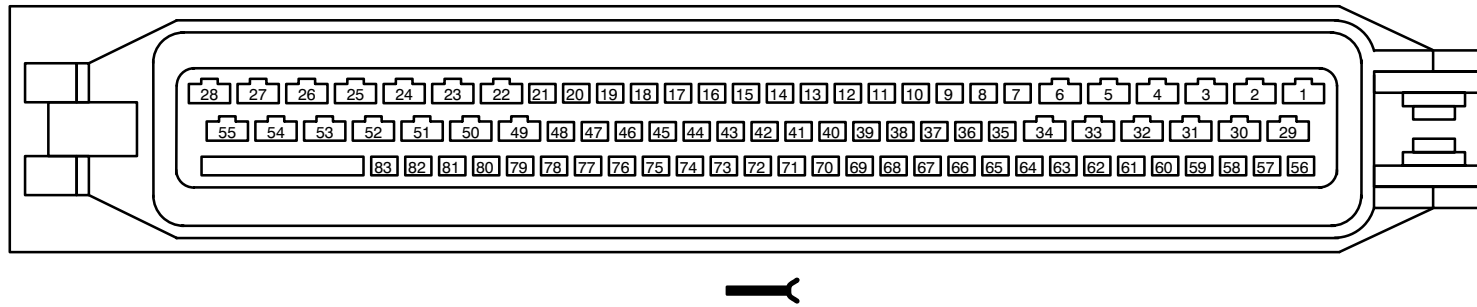


FIG. 2

B150002.00

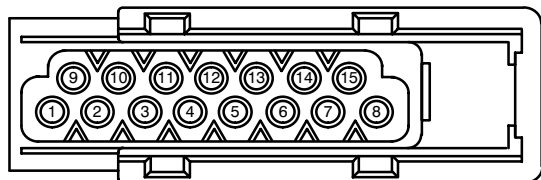


FIG. 3

B040026

