



Electrical troubleshooting manual

Series 3 – E36/7 (Z3 Roadster)

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Model year 1998

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Schematics

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

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

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

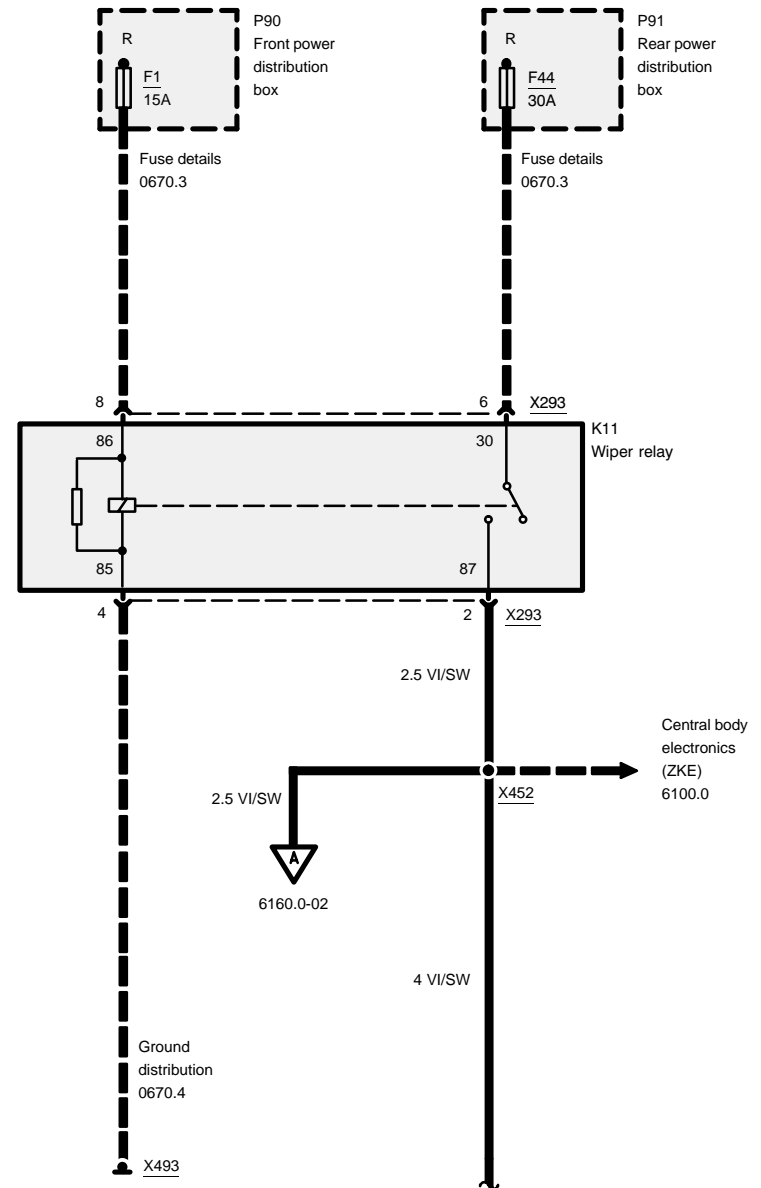
All circuit symbols used are listed and explained in the cell **0140.0 Symbols**.

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

In cell **7100.0 Component Location Views** the locations of the connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **8000.0 Solder Connector 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

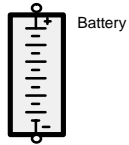
General conventions can be explained based on the following schematic example.



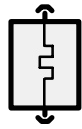


General conventions

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 P94).
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 at the connector X293 indicates that both pins belong to the connector X293.
5. The dashed line from fuse 1 to pin 8 of the connector X293 shows the positive supply of the relay K11. If required, refer to cell **0670.3 Fuse details** at fuse F1 for the complete line progression with all plug connections, line branches, wire colours and cross sections.
6. The dashes line with arrow at the connector X452 indicates that several wires lead to the connector X452. All lines leading to the connection are illustrated in cell **6100.0 Central body electronics (ZKE)**. An uninterrupted line with arrow indicates that only this one line leads to another circuit.
7. The dashes line from pin 4 of connector X293 to ground X493 shows the ground supply of the 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 colours and cross sections.
8. The uninterrupted line from connector X452 with an **A** in the open arrow is continued on Page 6160.0–02.
Termination of the wire 4 VI/SW from connector X452 with a wavy line indicates that the wire is continued on the opposite page.



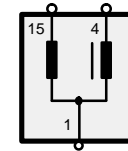
Battery



Heating element



Potentiometer Wiper moved by external force



Ignition coil



Fuses



motor with blower or fan



Potentiometer Change by pressure or temperature



Control/performance electronics



Fuse link



Loudspeaker without horn



Diode Current flows in direction of arrow only



Radio



Bulb



Variable resistor



Hall-effect sensor



Automatic cut-out



Overtemperature protection



Z-diode for voltage control



Transistor switch



Solenoid coil



Permanent magnet motor one speed



LED



Knock sensor



Solenoid valve



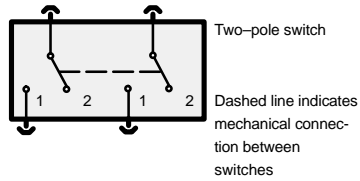
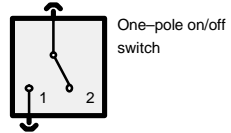
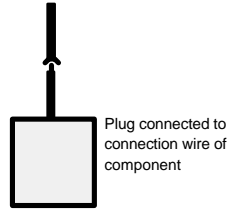
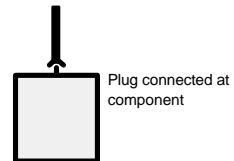
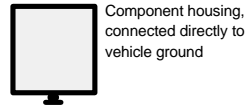
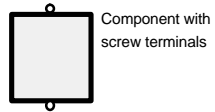
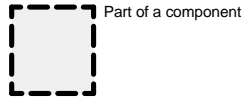
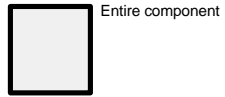
Permanent magnet motor two speeds



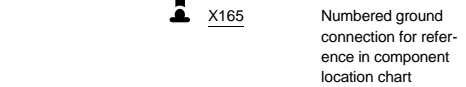
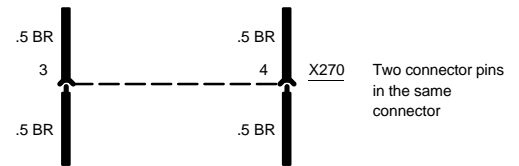
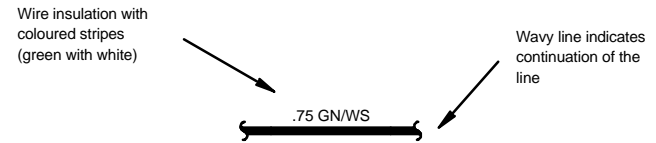
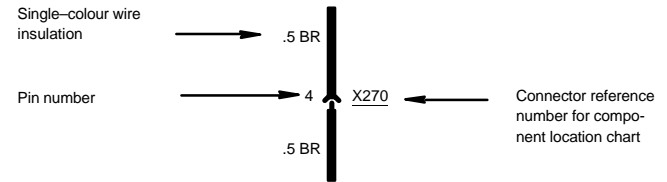
Oxygen sensor

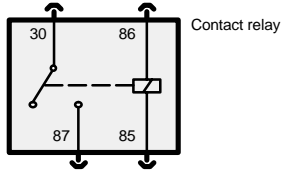


Heating element

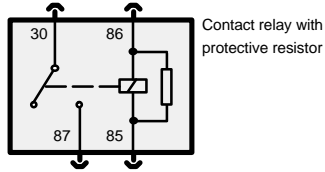


Wire colour	
BL	blue
BR	brown
GE	yellow
GN	green
GR	grey
OR	orange
RS	pink
RT	red
SW	black
VI	violet
WS	white
TR	transparent

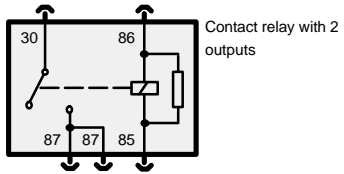




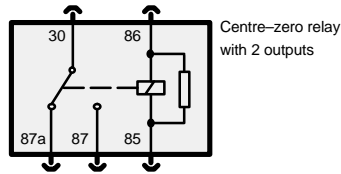
Contact relay



Contact relay with protective resistor

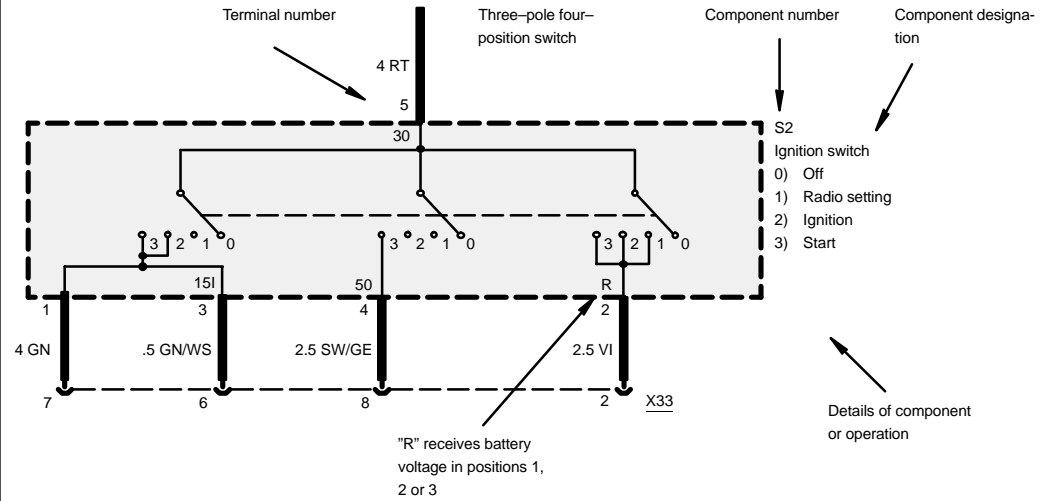


Contact relay with 2 outputs

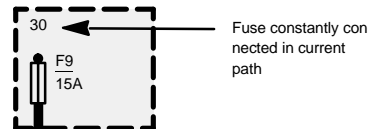


Centre-zero relay with 2 outputs

Terminal number	Designation
30	Relay input
85	Relay output (coil)
86	Relay input (coil)
87	Relay output (switched)
87a	Relay output (non-switched)



Terminal number	Designation	Terminal number	Designation
50	Battery voltage: Ignition switch in position 3	15I	Battery voltage: Ignition switch in position 2
30	Battery voltage: Supplied constantly	R	Battery voltage: Ignition switch in position 1, 2 or 3
15	Battery voltage: Ignition switch in position 2 or 3	31	Ground

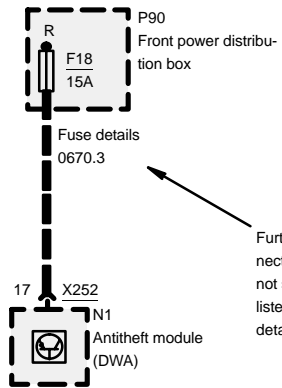


Terminal number	Designation
30	Battery voltage: Supplied constantly
15	Battery voltage: Ignition switch in position 2 or 3
R	Battery voltage: Ignition switch in position 1, 2 or 3

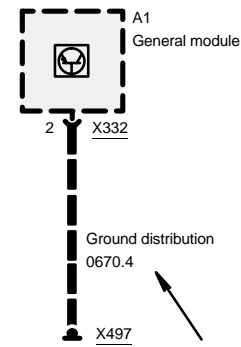
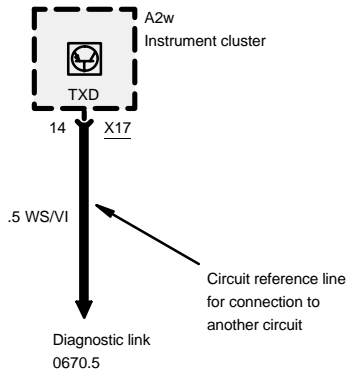


Z3

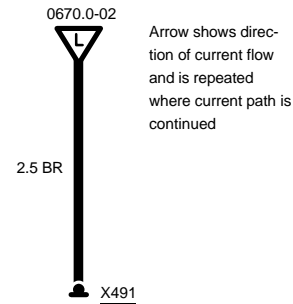
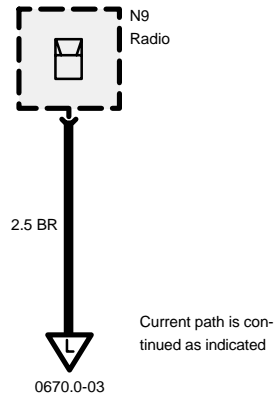
Symbols



Further circuits connected to fuse 18 are not shown but are listed under "fuse details"



Further circuits connected at ground X497 are not shown but are listed under "ground distribution"

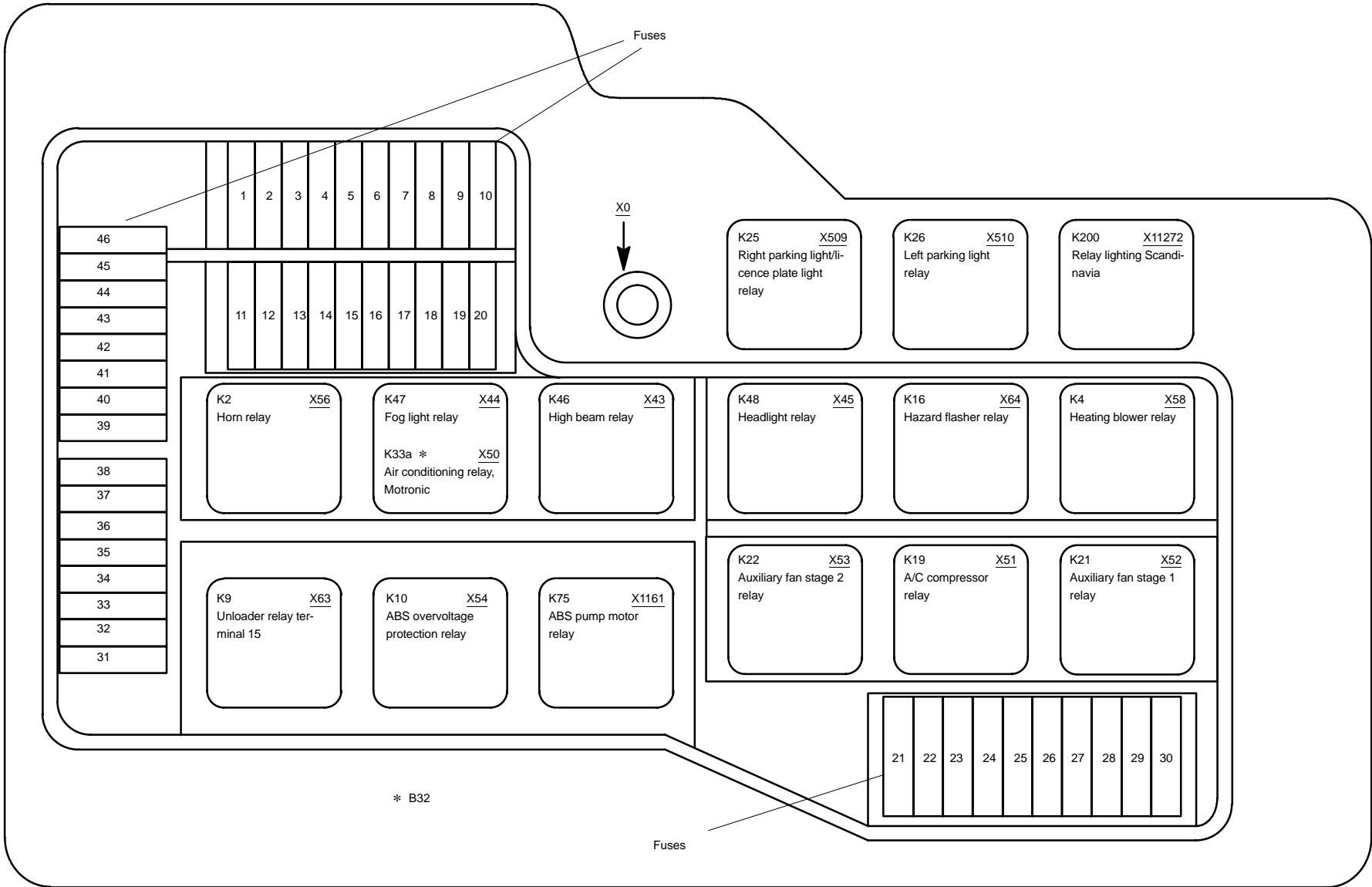




0670.0 Power distribution chart

Front power distribution box

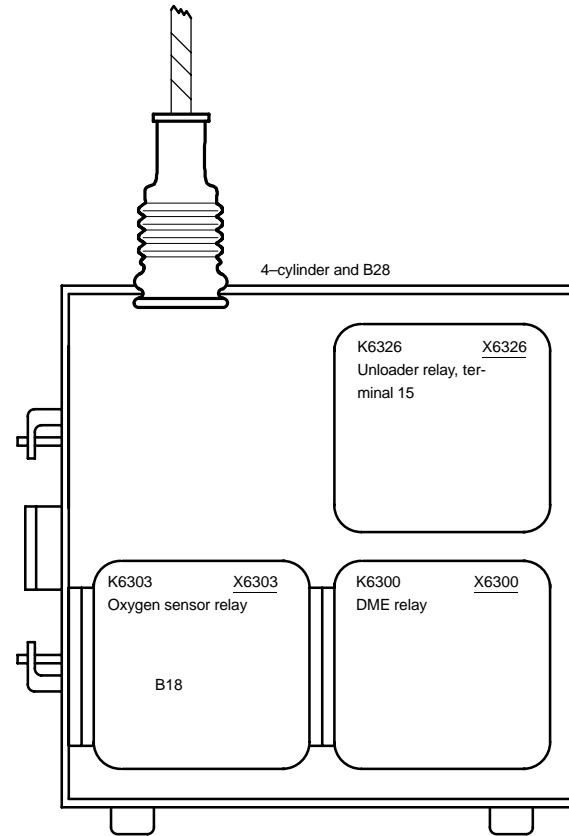
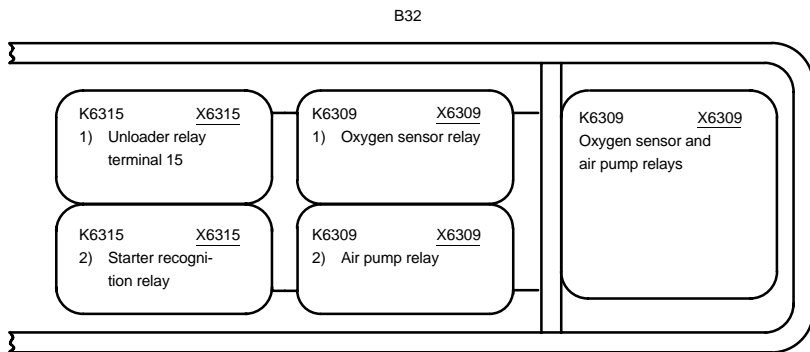
Z3





Power distribution chart

In E-box

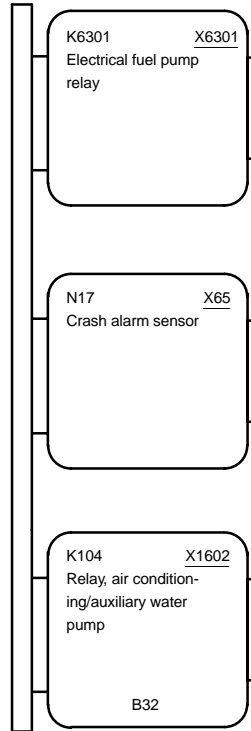




Z3

Power distribution chart

Relay carrier under LH side of dash





0670.1 Fuse chart

Fuses 1 to 29

Z3

	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		30A 15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	7.5A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A	
1210.17 Engine management MS41.0 (6-cylinder M52)												●			●		●												
1210.19 Digital motor electronics (DME M1.7.3, 4-cylinder M43)												●			●		●												
1210.20 Digital motor electronics (DME M5.2, 4-cylinder M44)												●			●		●												
1210.21 Digital motor electronics (DME MSS50, 6-cylinder S50 B32)												●			●		●									●			
1230.0 Alternator																										●			
1240.0 Starter																												●	
1290.0 E-box fan																										●			
2460.2 Electronic transmission control (EGS A4S 310R)																									●		●		
3234.0 Airbag (AB)																											●		
3450.0 Antilock brake system (ABS)										●											●						●		
3450.1 Automatic stability control (ASC)										●											●						●		
3614.0 Tyre inflation system																													
5116.0 Power mirrors																									●				
5126.0 Central locking system (ZKE/ZV)							●																						
5133.0 Power windows (ZKE/FH)														●															
5200.0 Power seats					●															●									
5203.0 Heated seats			●																				●						
5430.2 Electrohydraulic convertible soft-top	●																												
6100.0 Central body electronics (ZKE IV)								●						●															
6133.0 Horn								●																					



Fuse chart

Fuses 1 to 29

Z3

	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		30A 15A	30A	20A	5A 15A	20A	30A	7.5A 7.5A	5A 30A	15A 15A	5A 7.5A	15A 30A	5A 7.5A	15A 30A	5A 30A	5A 10A	5A 10A	5A 10A	5A 10A	5A 10A	5A 10A	10A 5A	10A 5A	10A 5A	5A 5A	5A 7.5A		
6135.0 Electronic immobiliser (EWS II)																													●
6160.1 Wipe/wash module (WWM)			●																										
6167.1 Headlight washer system (SRA)			●																										
6169.0 Windscreen washer jet heaters																									●				
6211.0 Instrument cluster							●																●				●		
6213.3 Digital clock																													
6300.0 Light switch																						●	●		●				
6312.0 Headlight/fog light											●	●			●	●						●	●		●				●
6313.0 Turn signal/hazard warning system																							●						
6314.0 Park/tail/underhood lights																													
6320.0 Licence plate/luggage compartment lights																													
6322.0 Reversing lights																											●		
6325.0 Brake lights																													
6330.3 Interior lights																													
6332.0 Interior																													
6350.0 Crash and alarm sensor											●	●														●			
6410.7 Heating control (HS)																						●							
6424.0 Rear window defogger						●																●		●					
6450.6 Automatic climate control (IHKS)																●						●							
6510.0 Radio/Stereo									●																				



Fuse chart

Fuses 1 to 29

Z3

		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		30A 15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	7.5A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A	
6510.1	Radio/HiFi									●																				
6510.2	Radio provisions									●																				
6571.0	Cruise control																												●	
6581.3	On-board computer (BC – Low)																													
6610.2	Remote control ZV/DWA							●																						



Fuse chart

Fuses 30 to 48

Z3

	Fuse number																		
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	15A	5A	5A	15A	7.5A	15A		40A
1210.17 Engine management MS41.0 (6-cylinder M52)										●									
1210.19 Digital motor electronics (DME M1.7.3, 4-cylinder M43)																			
1210.20 Digital motor electronics (DME M5.2, 4-cylinder M44)																			
1210.21 Digital motor electronics (DME MSS50, 6-cylinder S50 B32)										●									
1230.0 Alternator																			
1240.0 Starter		●																	
1290.0 E-box fan																			
2460.2 Electronic transmission control (EGS A4S 310R)																	●		
3234.0 Airbag (AB)												●	●						
3450.0 Antilock brake system (ABS)									●								●		
3450.1 Automatic stability control (ASC)									●								●		
3614.0 Tyre inflation system																			
5116.0 Power mirrors																			
5126.0 Central locking system (ZKE/ZV)						●								●					
5133.0 Power windows (ZKE/FH)																			
5200.0 Power seats																			
5203.0 Heated seats																			
5430.2 Electrohydraulic convertible soft-top																	●		
6100.0 Central body electronics (ZKE IV)		●		●	●	●								●					
6133.0 Horn																			



Fuse chart

Fuses 30 to 48

Z3

		Fuse number																		
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	15A	5A	5A	15A	7.5A	15A		
6135.0	Electronic immobiliser (EWS II)		●														●			
6160.1	Wipe/wash module (WWM)						●	●								●				
6167.1	Headlight washer system (SRA)						●									●				
6169.0	Windscreen washer jet heaters																			
6211.0	Instrument cluster		●															●		
6213.3	Digital clock		●														●			
6300.0	Light switch					●		●												
6312.0	Headlight/fog light	●						●												
6313.0	Turn signal/hazard warning system					●														
6314.0	Park/tail/underhood lights					●		●												
6320.0	Licence plate/luggage compartment lights					●		●												
6322.0	Reversing lights																			
6325.0	Brake lights																	●		
6330.3	Interior lights					●									●					
6332.0	Interior			●				●												
6350.0	Crash and alarm sensor					●														
6410.7	Heating control (HS)																			
6424.0	Rear window defogger																			
6450.6	Automatic climate control (IHKS)									●	●								●	
6510.0	Radio/Stereo															●				



Fuse chart

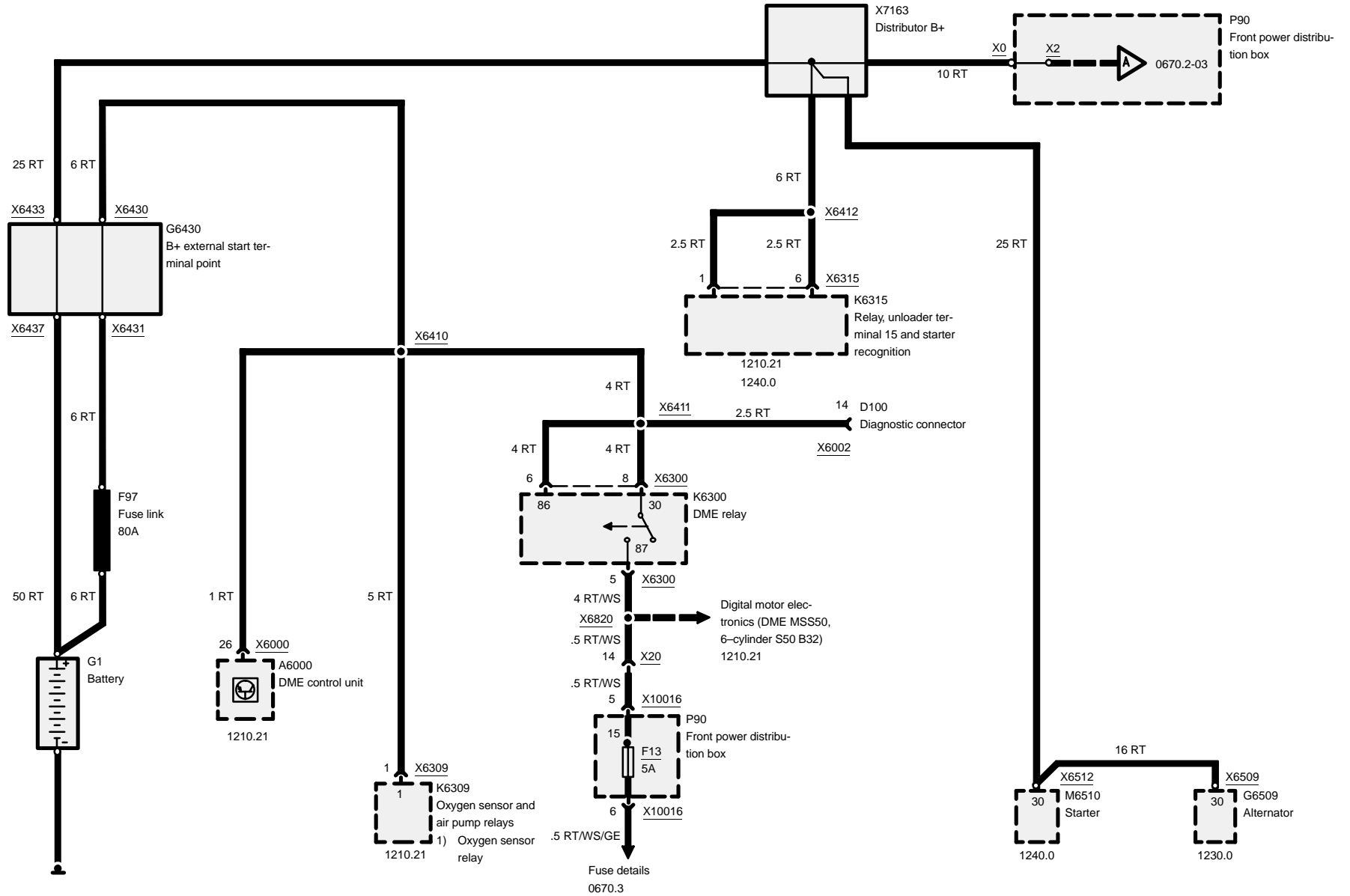
Fuses 30 to 48

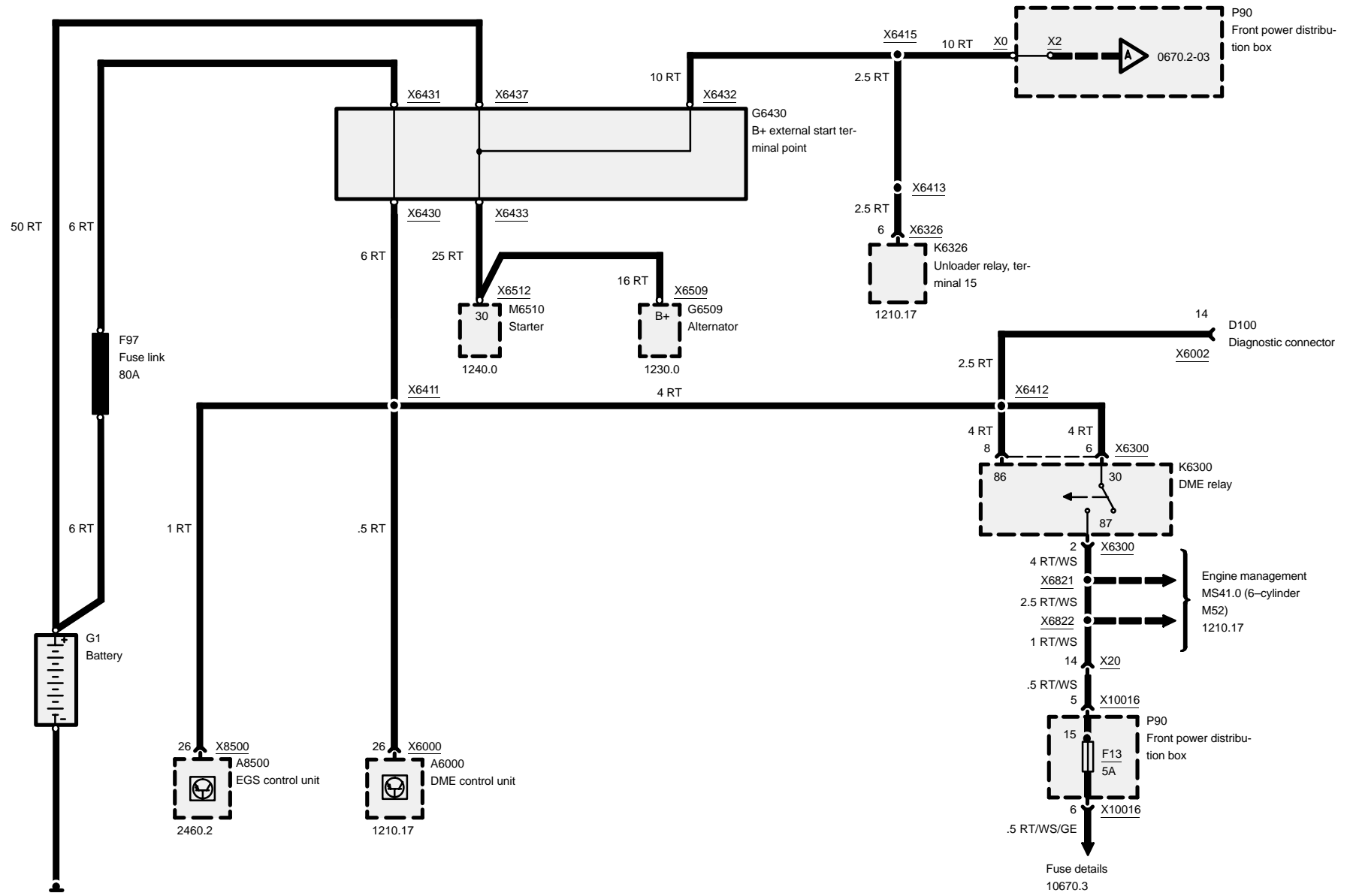
Z3

		Fuse number																			
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	15A	5A	5A	15A	7.5A	15A	40A		
6510.1	Radio/HiFi															●					
6510.2	Radio provisions															●					
6571.0	Cruise control																	●			
6581.3	On-board computer (BC – Low)		●															●			
6610.2	Remote control ZV/DWA														●						

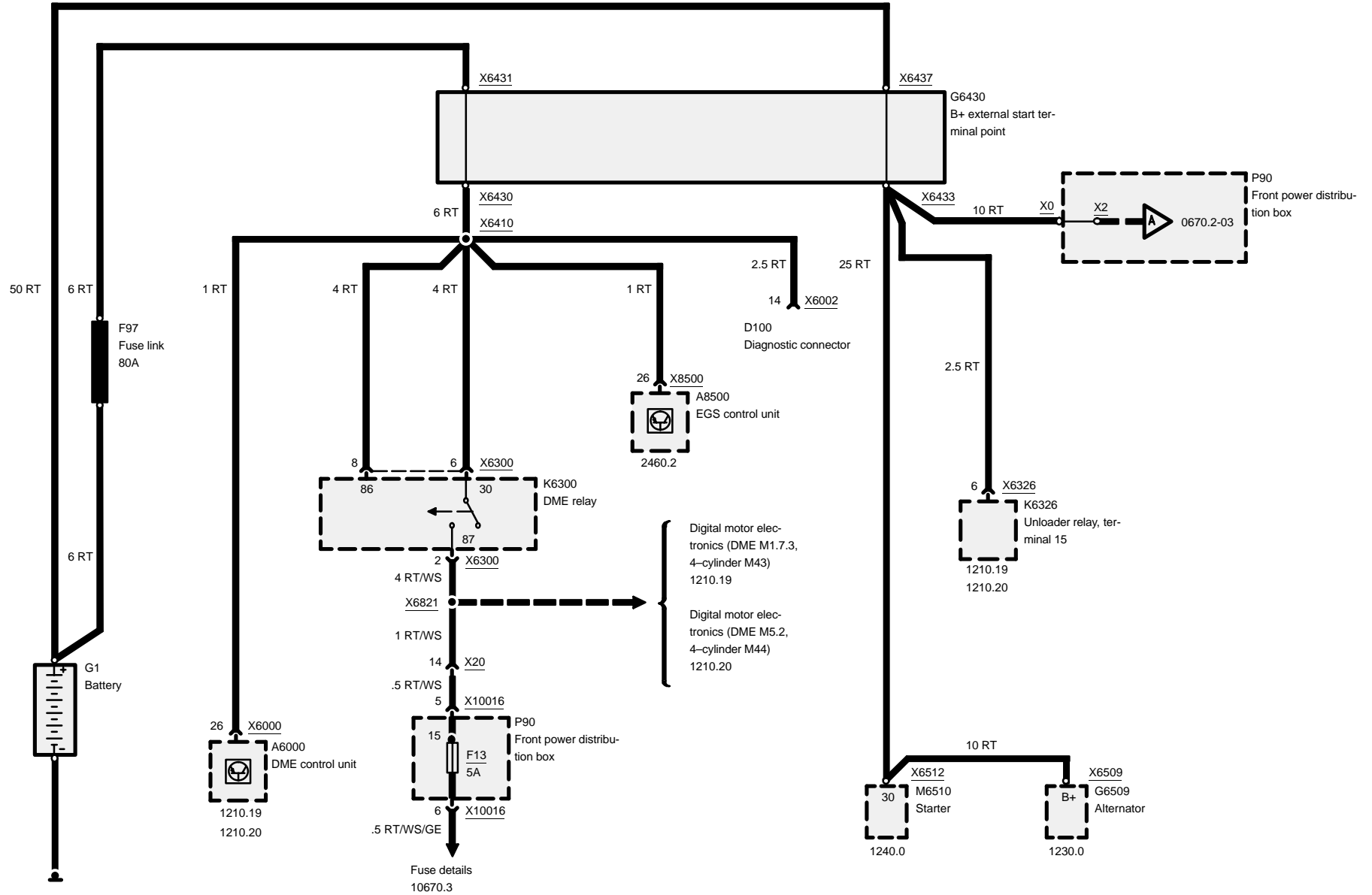
0670.2 Power distribution

B32





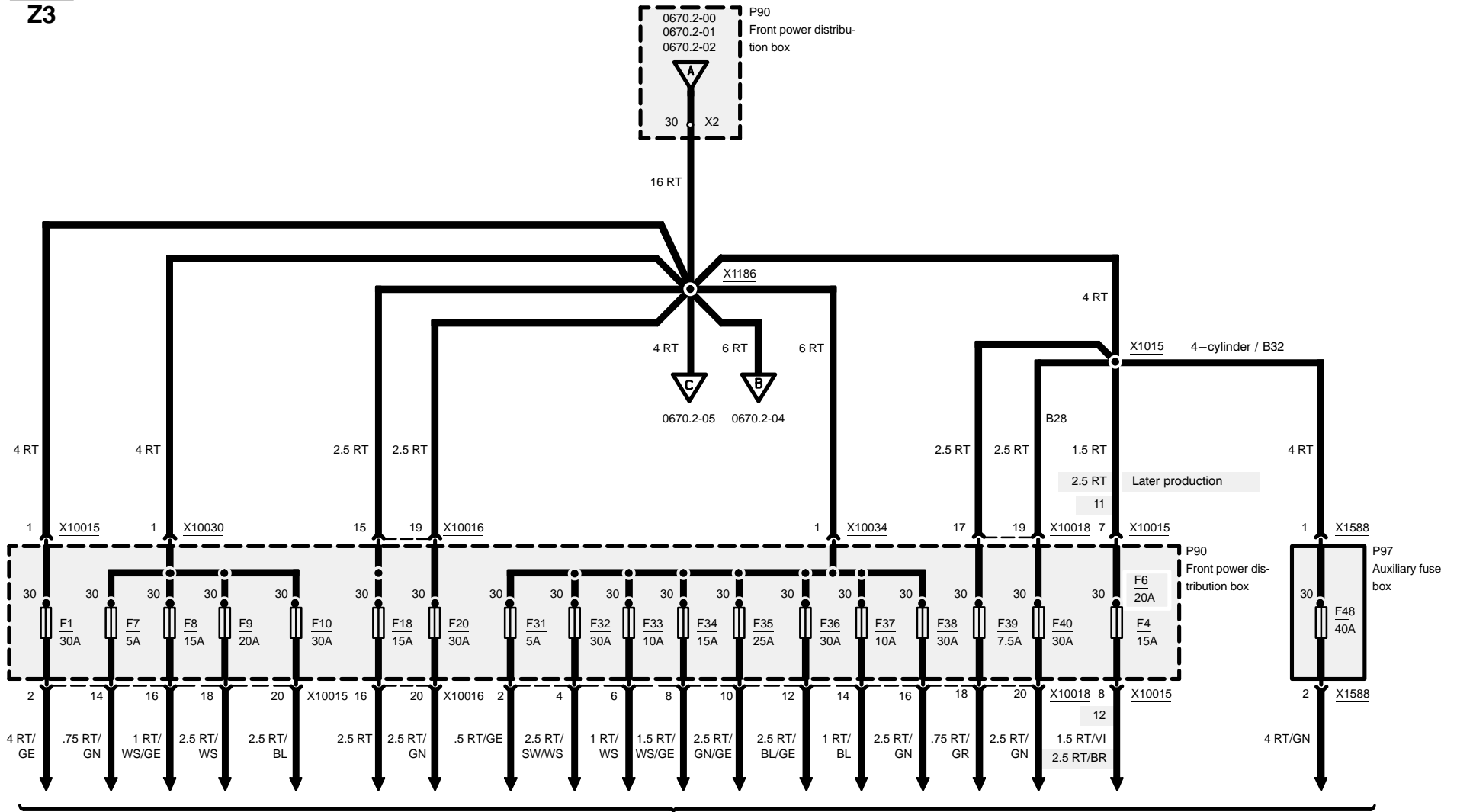
Fuse details
10670.3





Z3

Power distribution

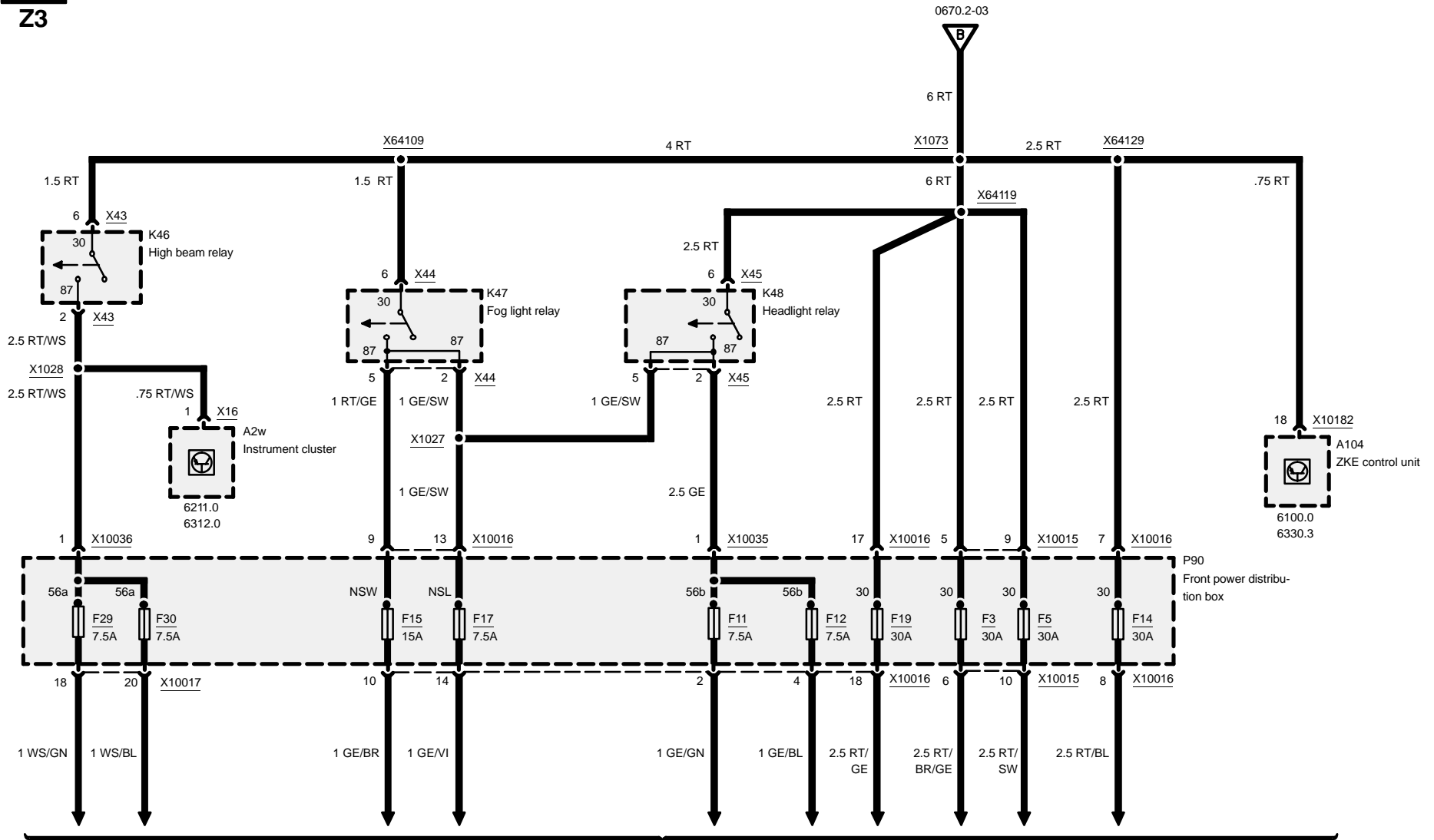


Fuse details
0670.3

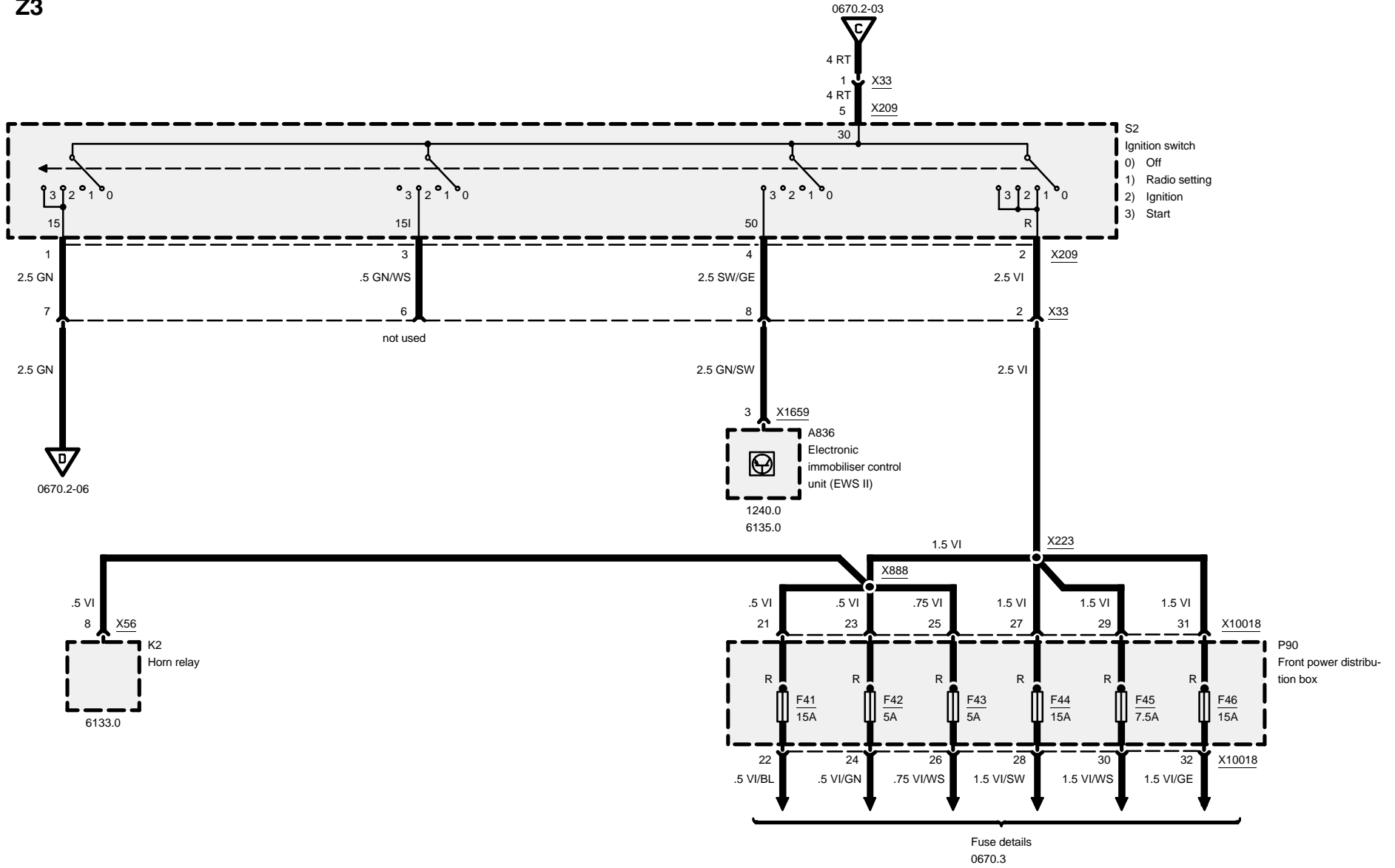


Power distribution

Z3

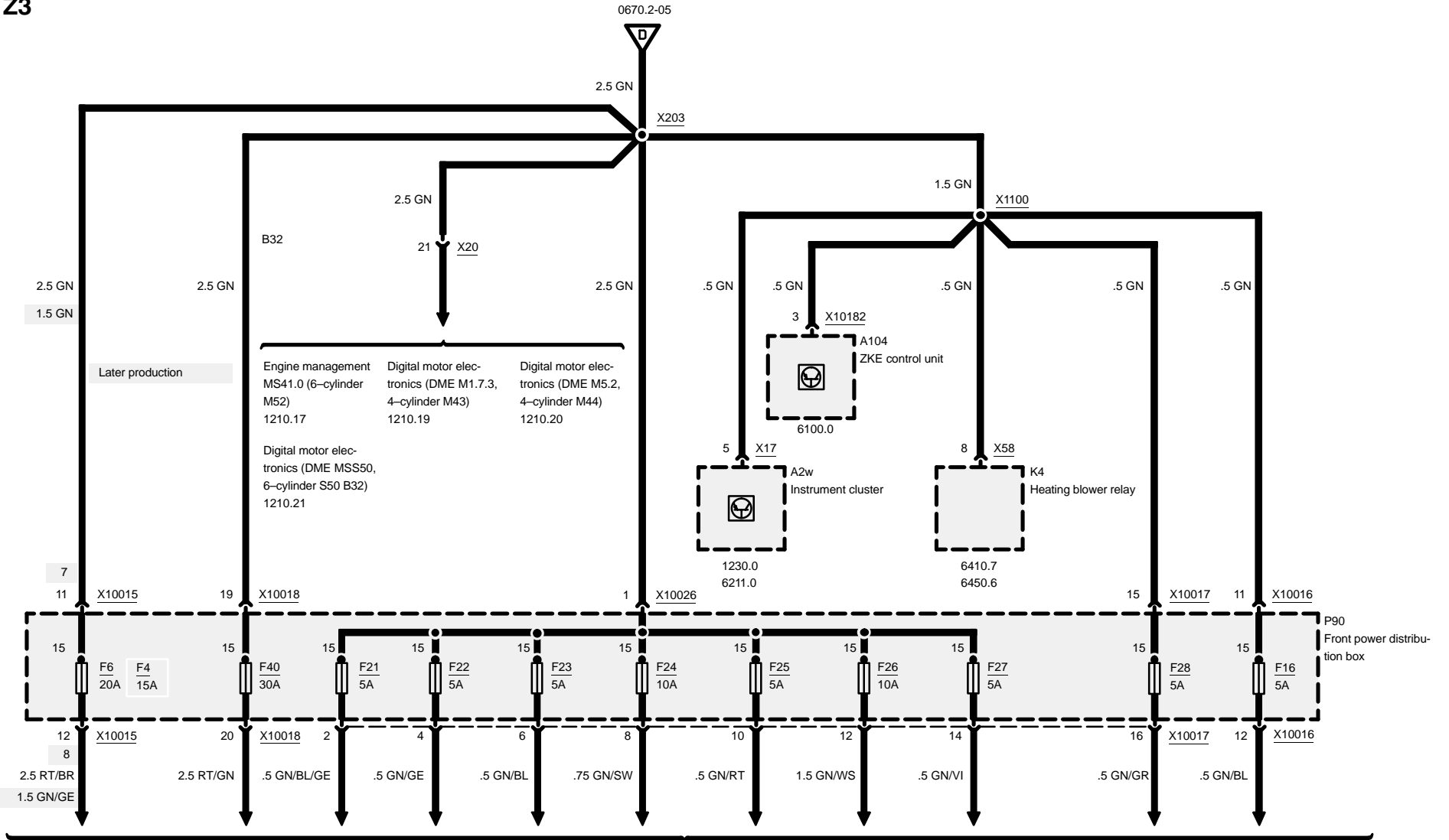


Fuse details
0670.3





Power distribution



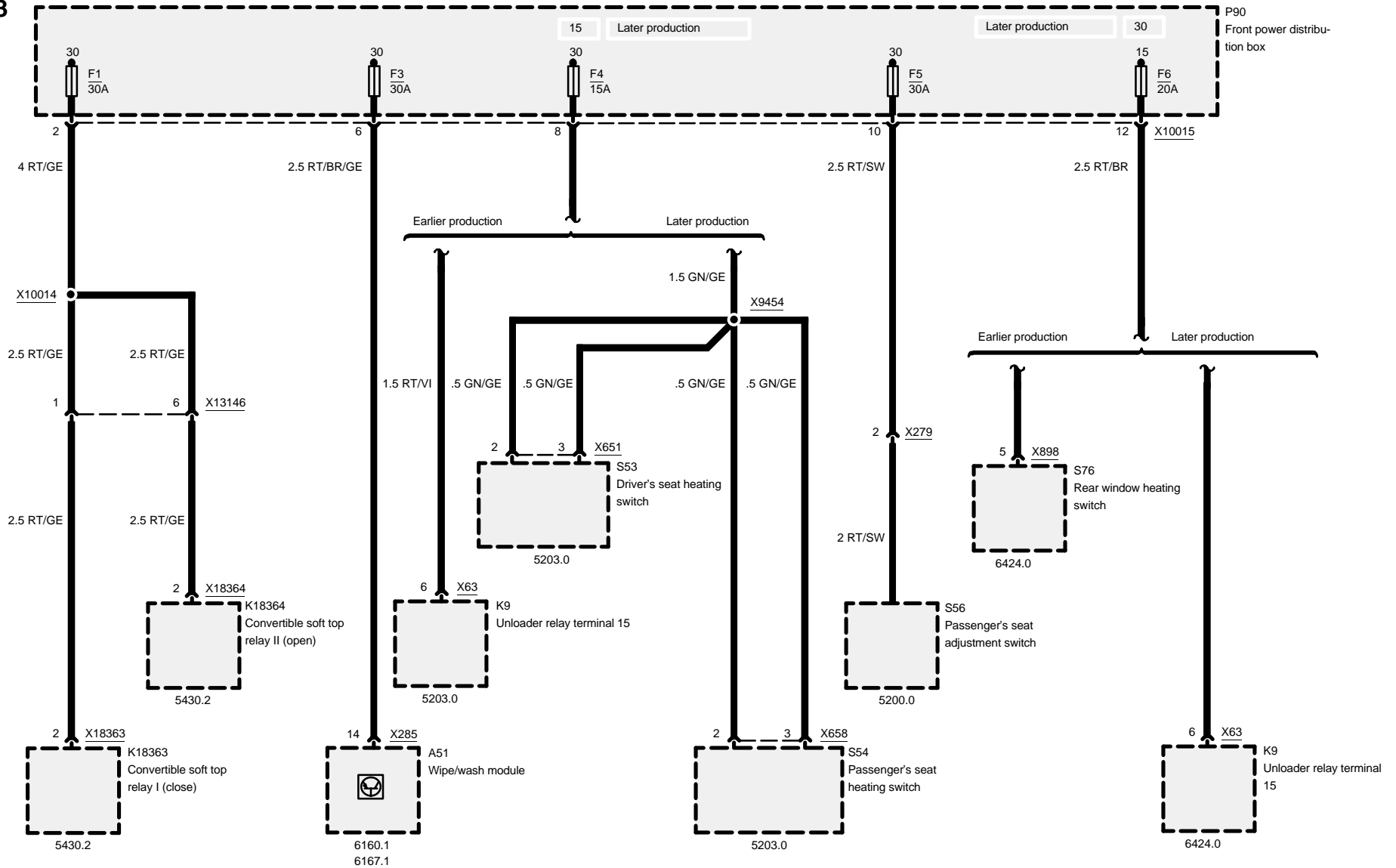
Fuse details
0670.3



0670.3 Fuse details

Fuses 1, 3, 4, 5 and 6

Z3

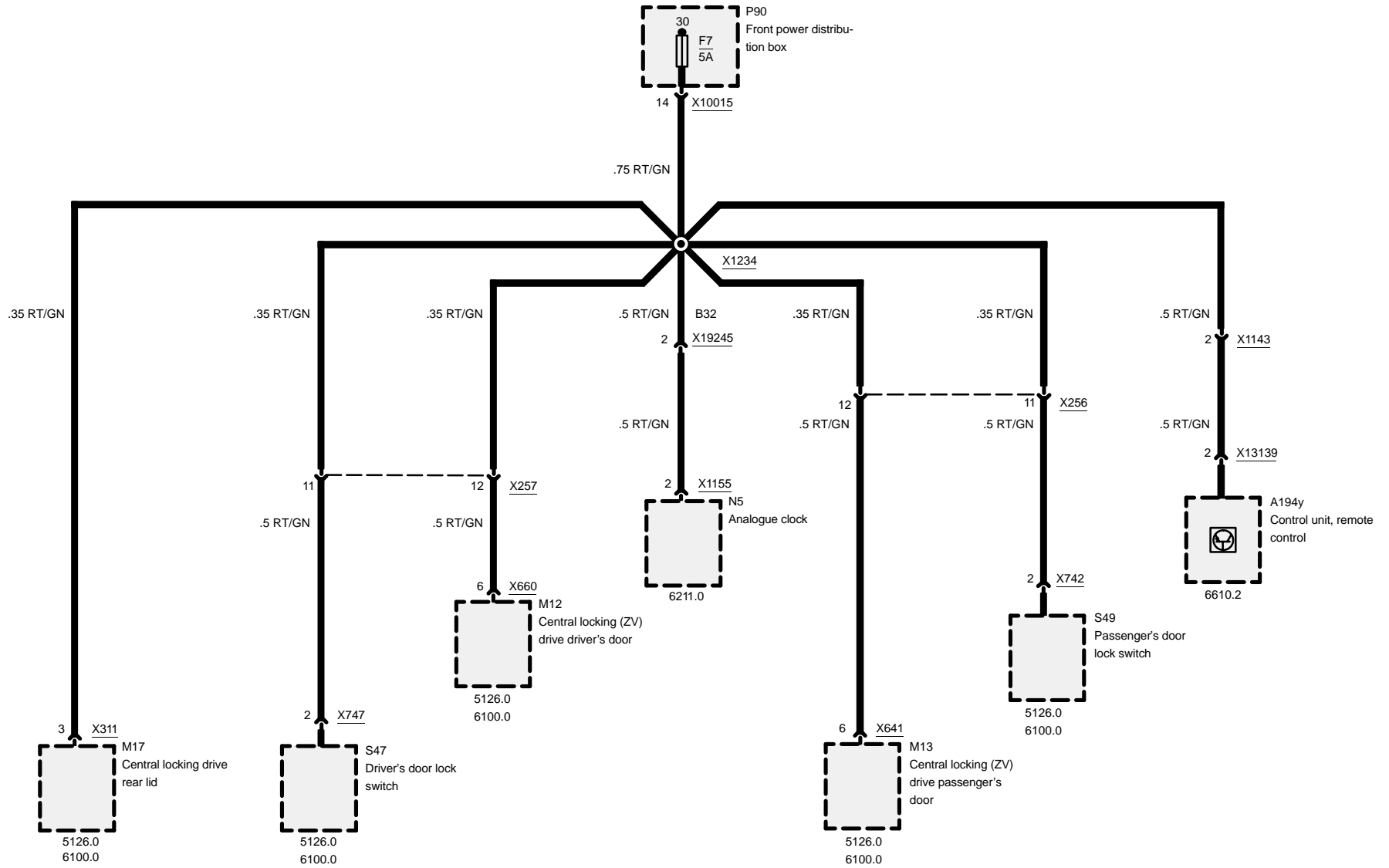




Fuse details

Fuse 7

Z3

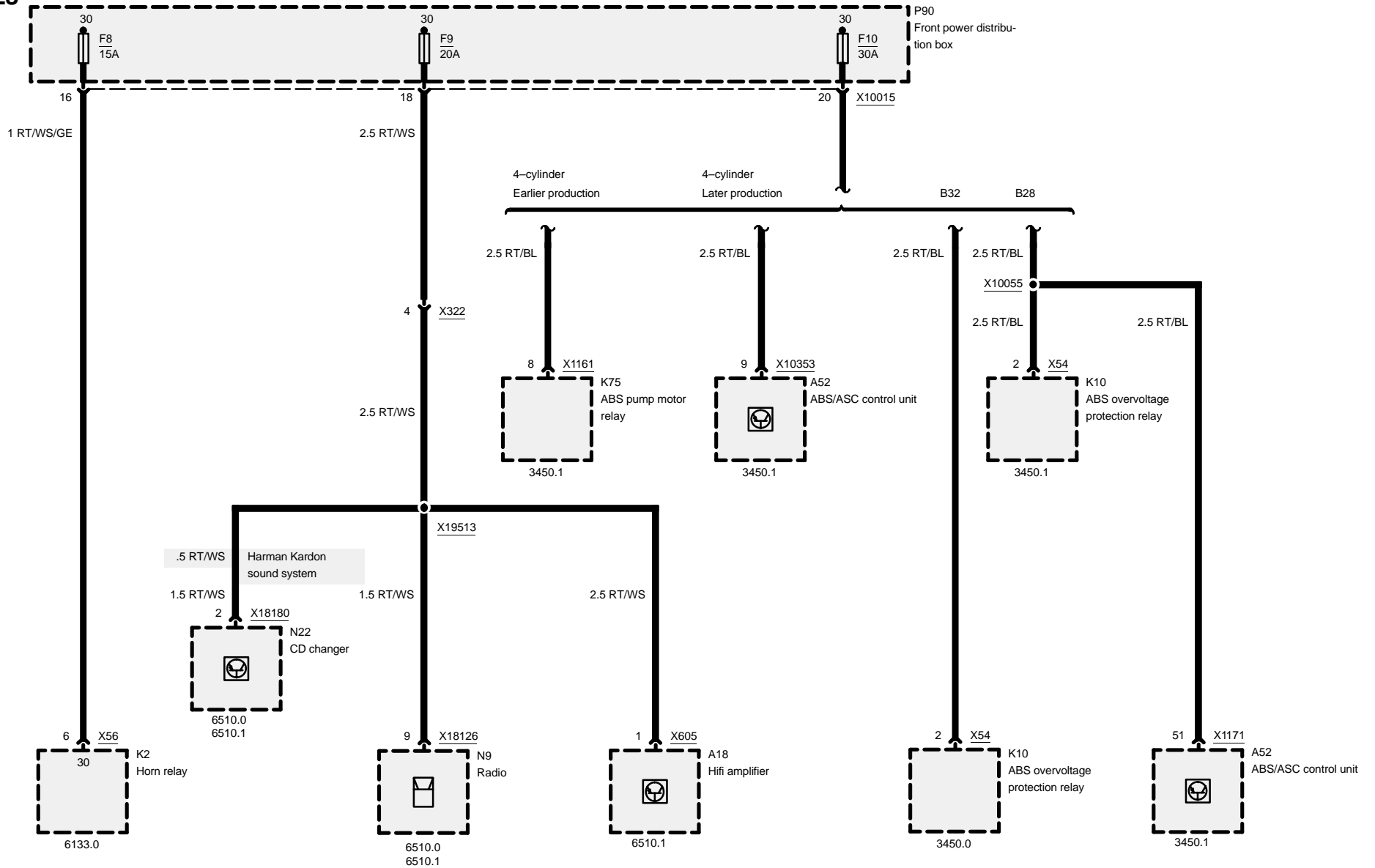




Fuse details

Fuses 8, 9 and 10

Z3

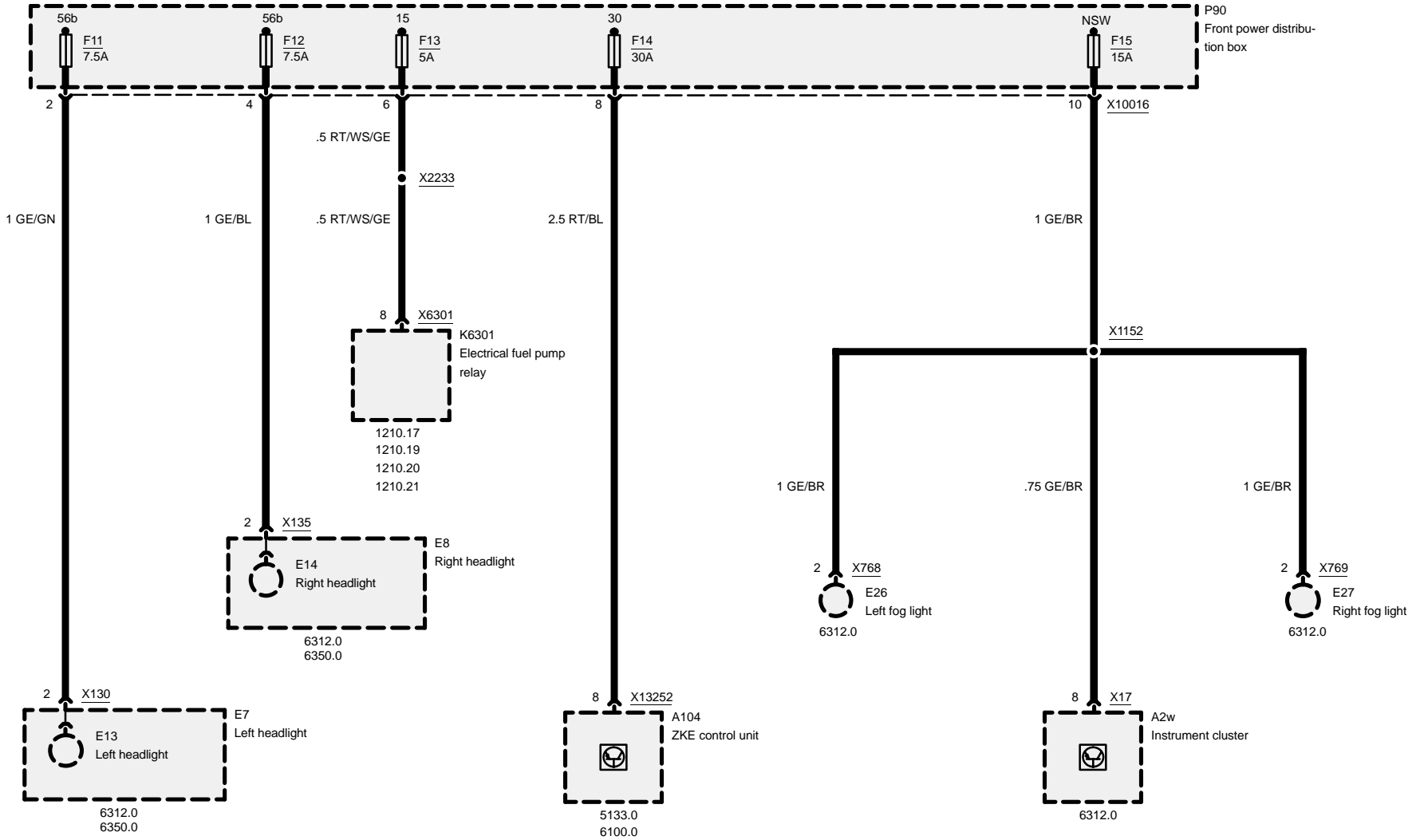




Fuse details

Fuses 11, 12, 13, 14 and 15

Z3

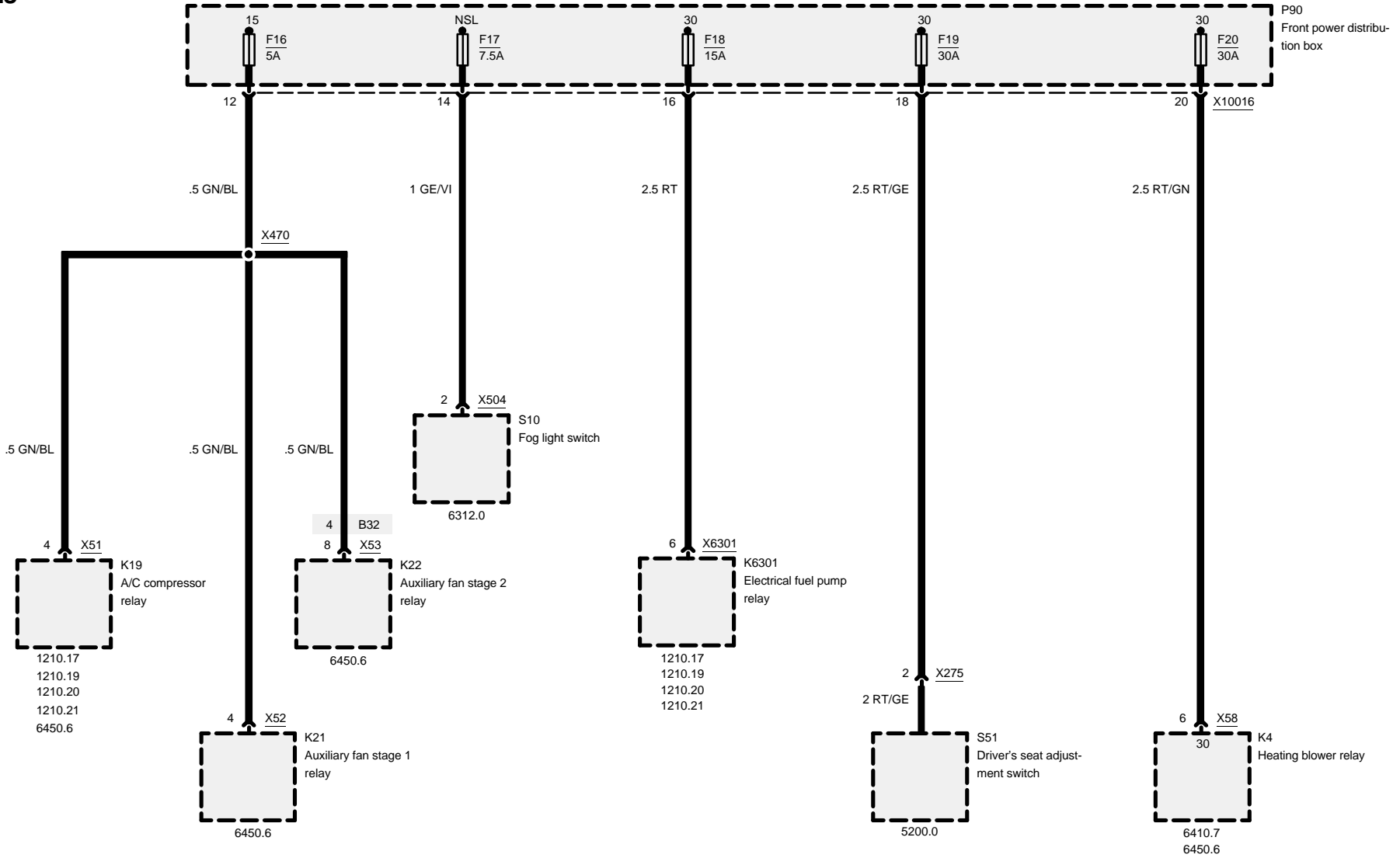




Fuse details

Fuses 16, 17, 18, 19 and 20

Z3

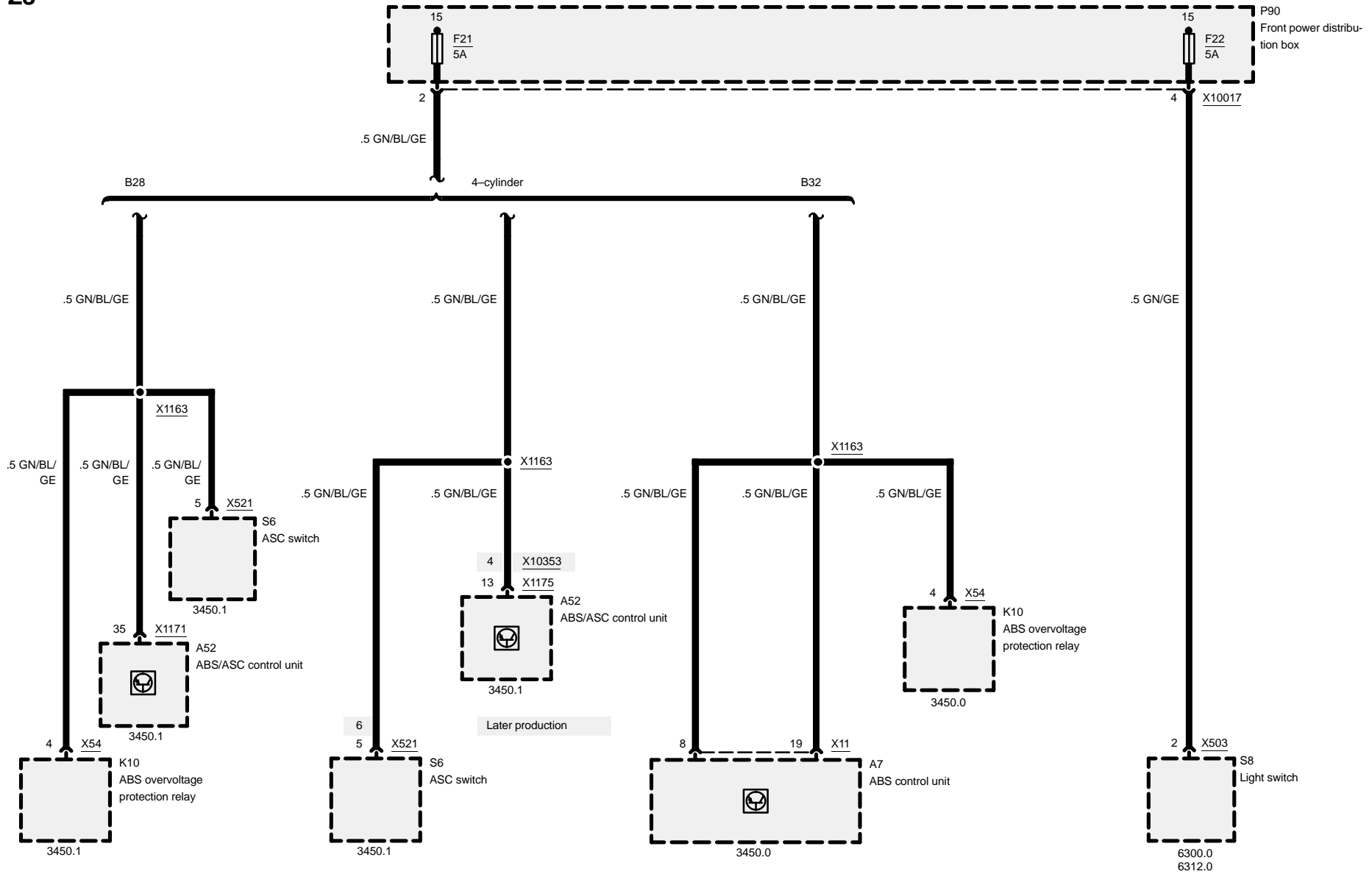




Fuse details

Fuses 21 and 22

Z3

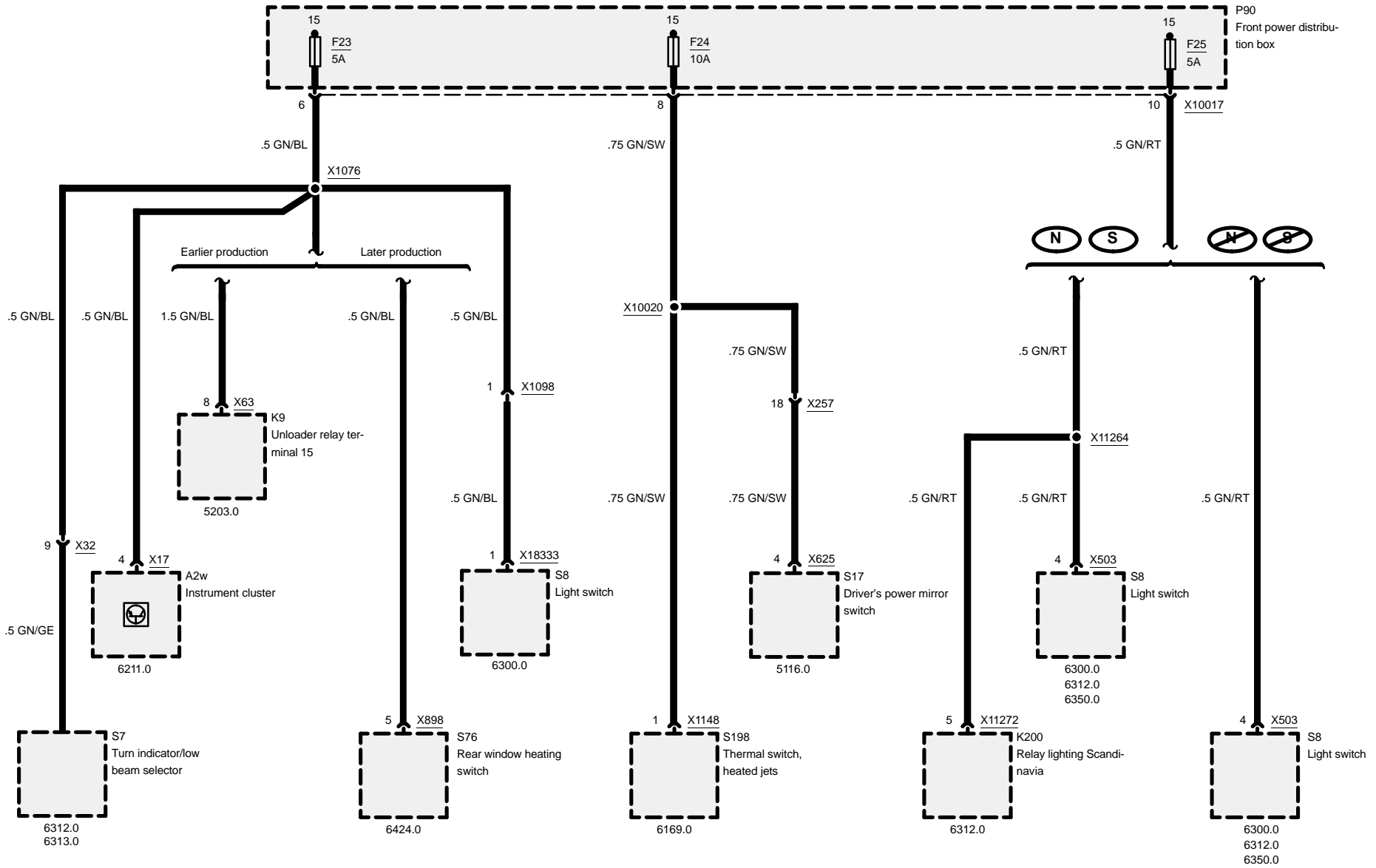




Z3

Fuse details

Fuses 23, 24 and 25

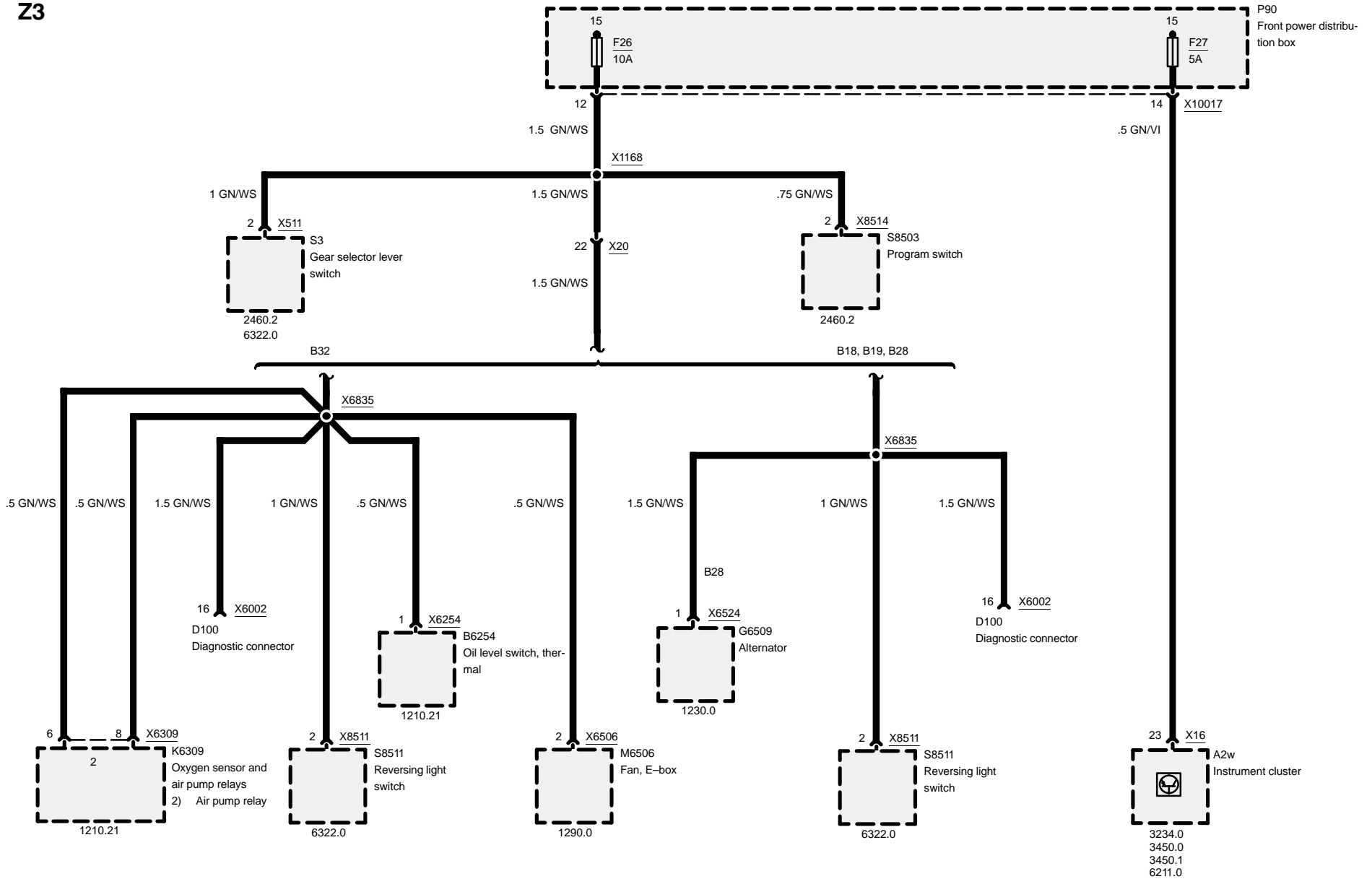




Fuse details

Fuses 26 and 27

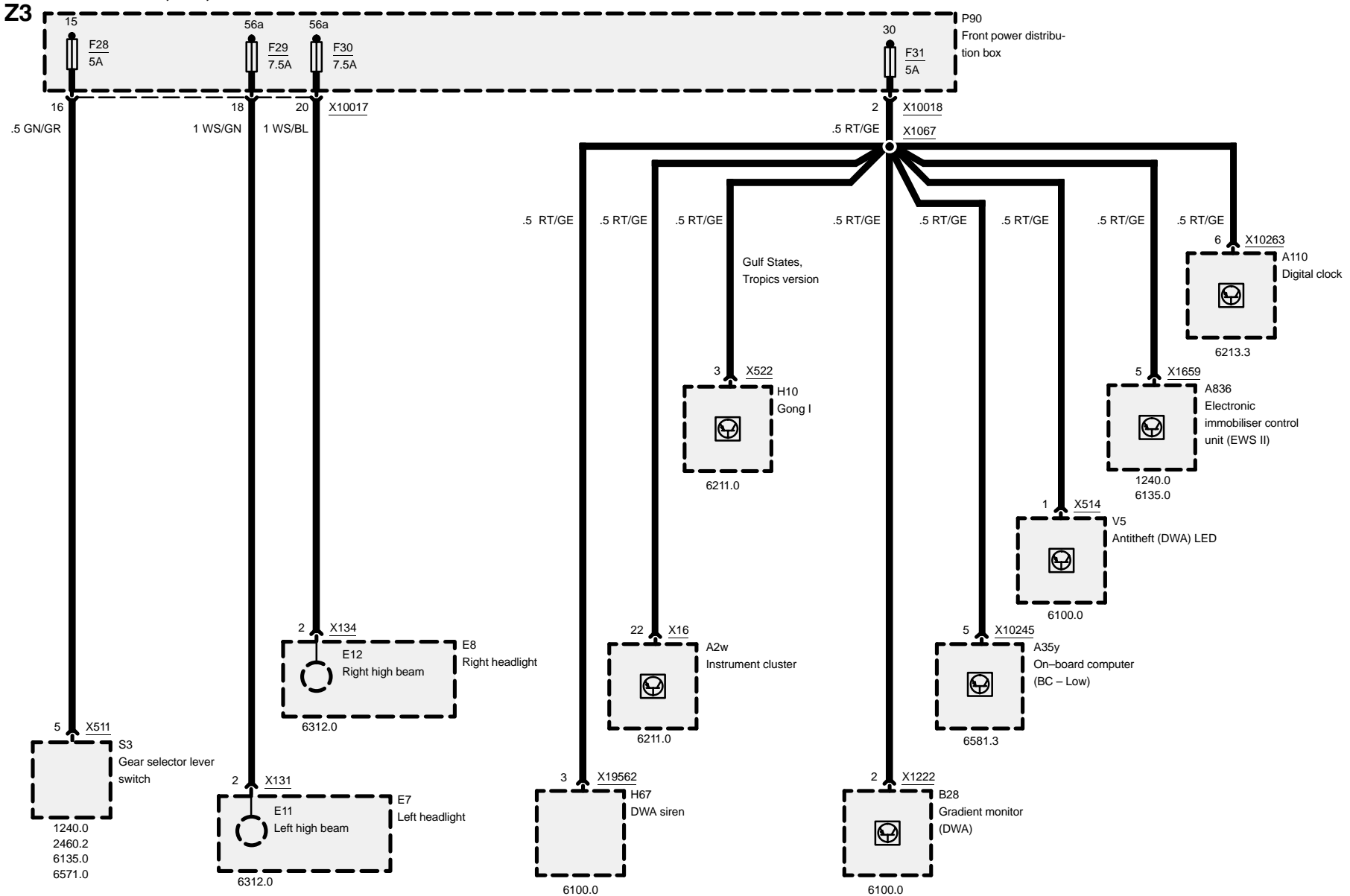
Z3





Fuse details

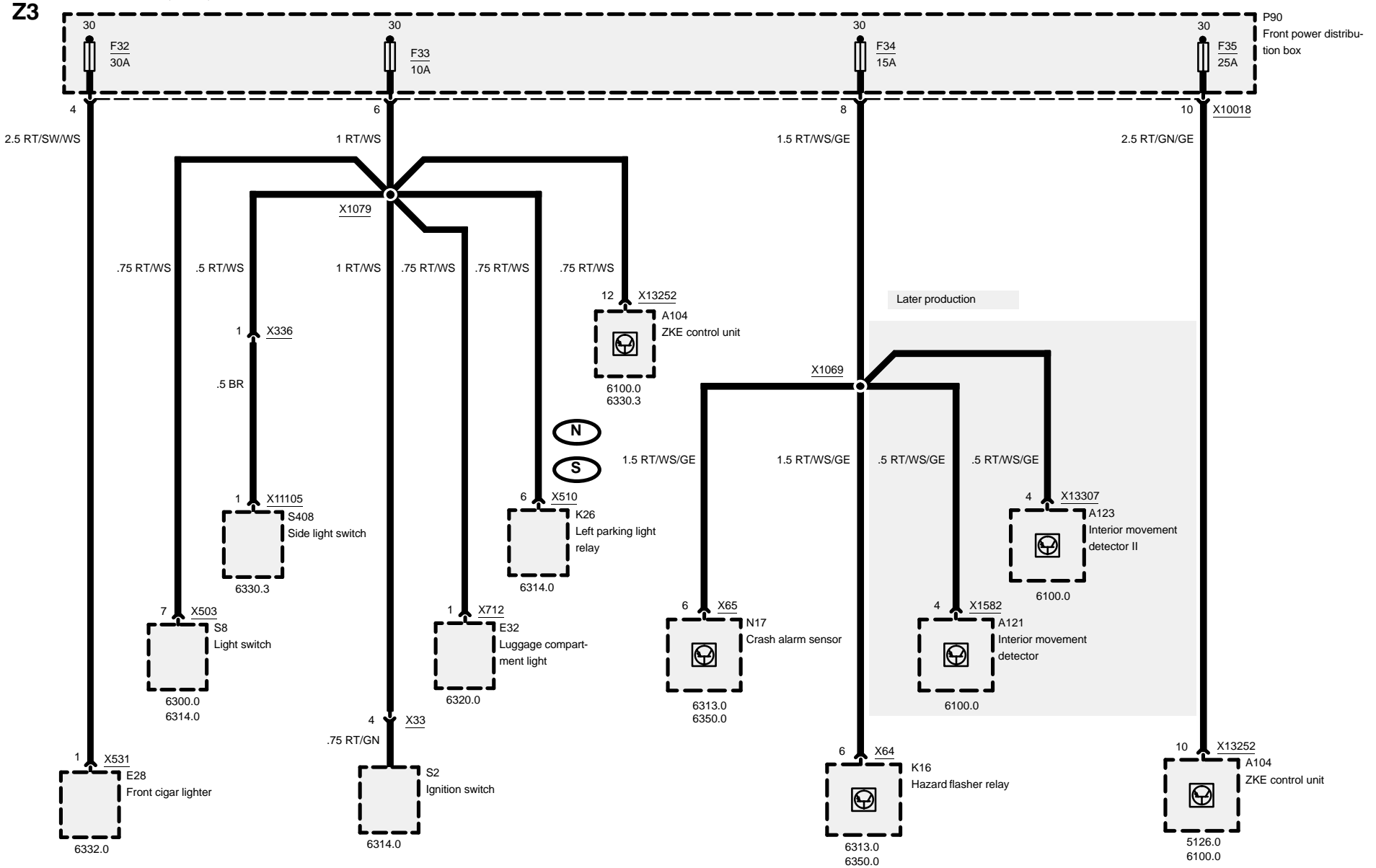
Fuses 28, 29, 30 and 31





Fuse details

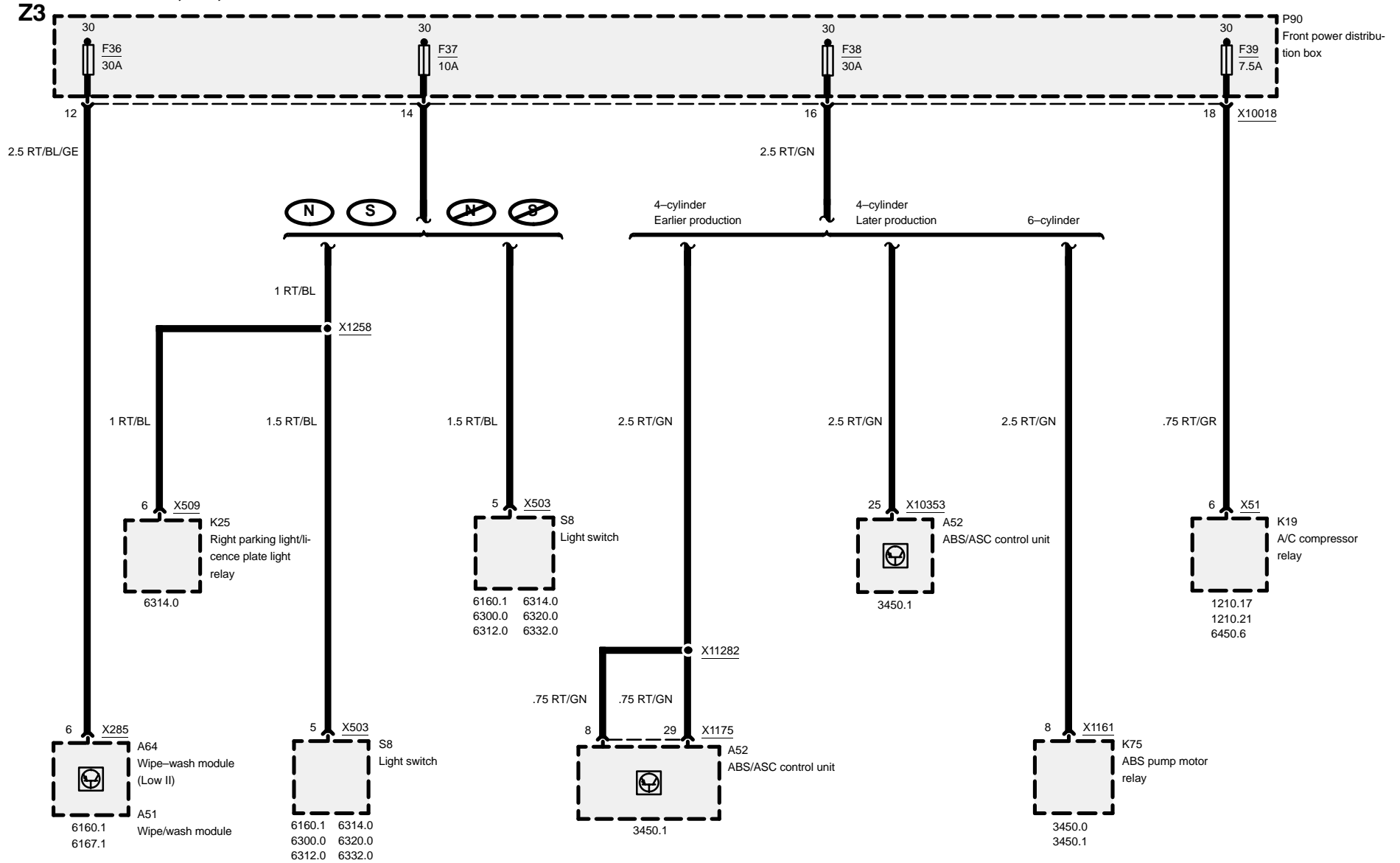
Fuses 32, 33, 34 and 35





Fuse details

Fuses 36, 37, 38 and 39

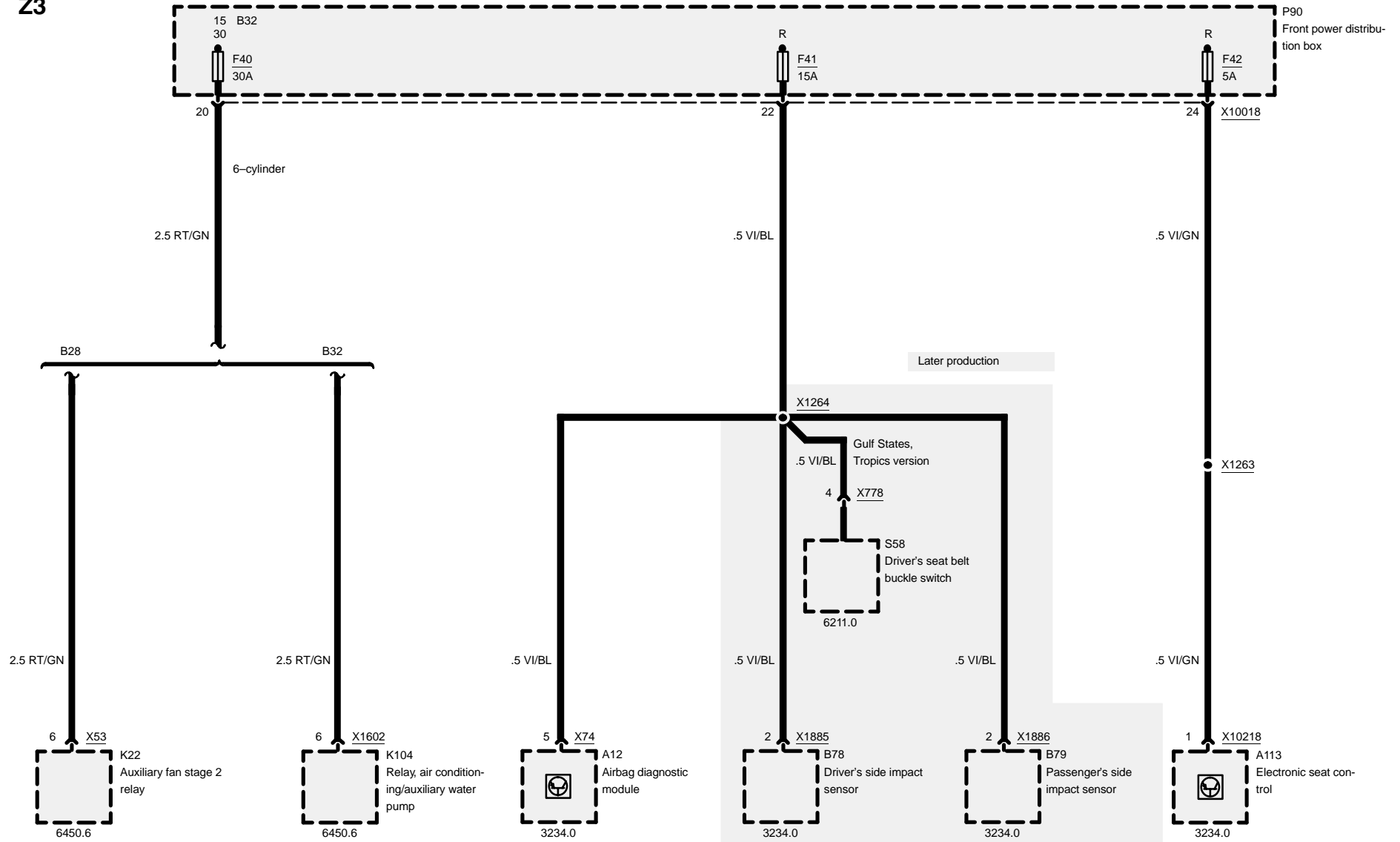




Fuse details

Fuses 40, 41 and 42

Z3

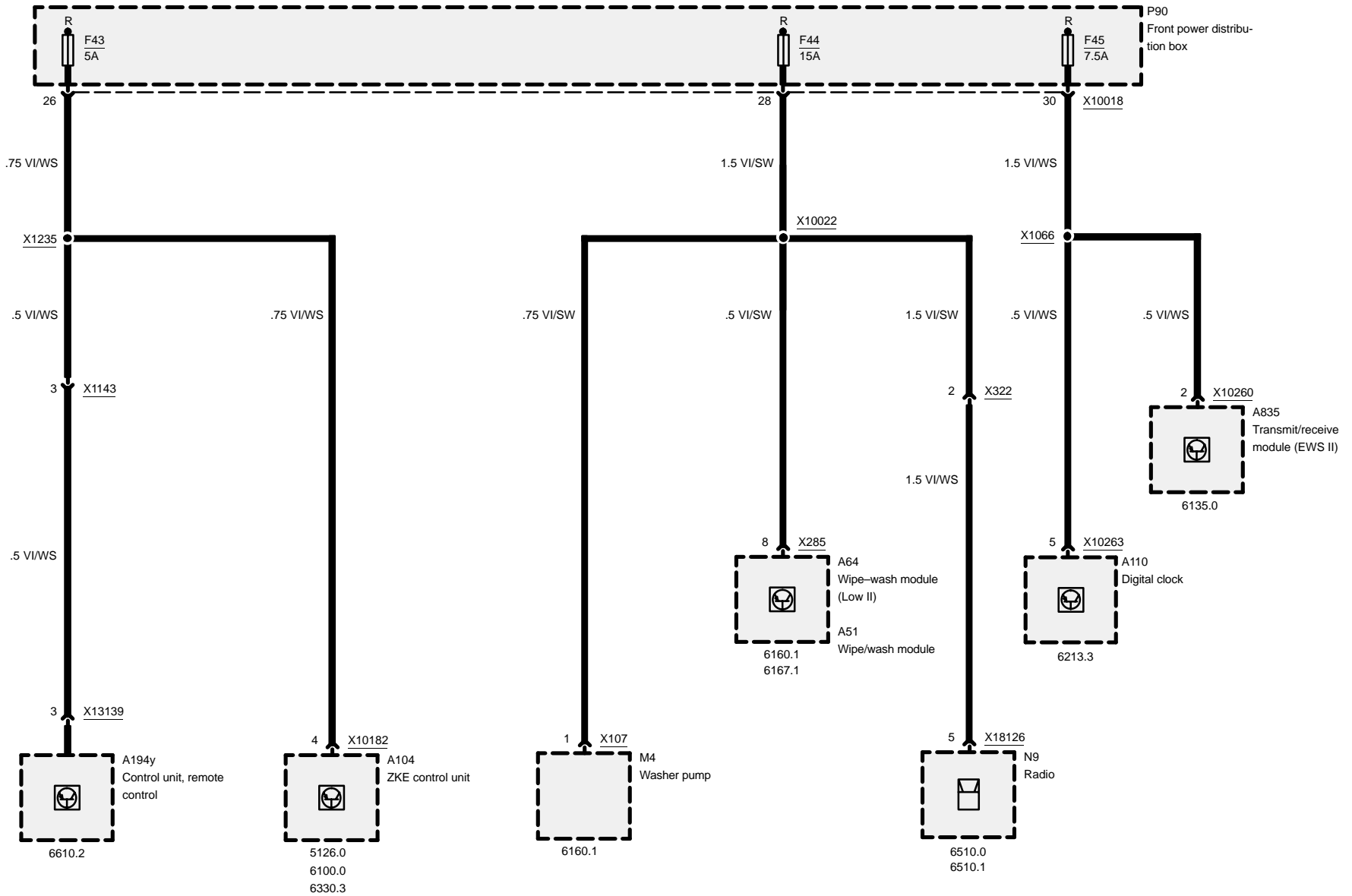




Fuse details

Fuses 43, 44 and 45

Z3

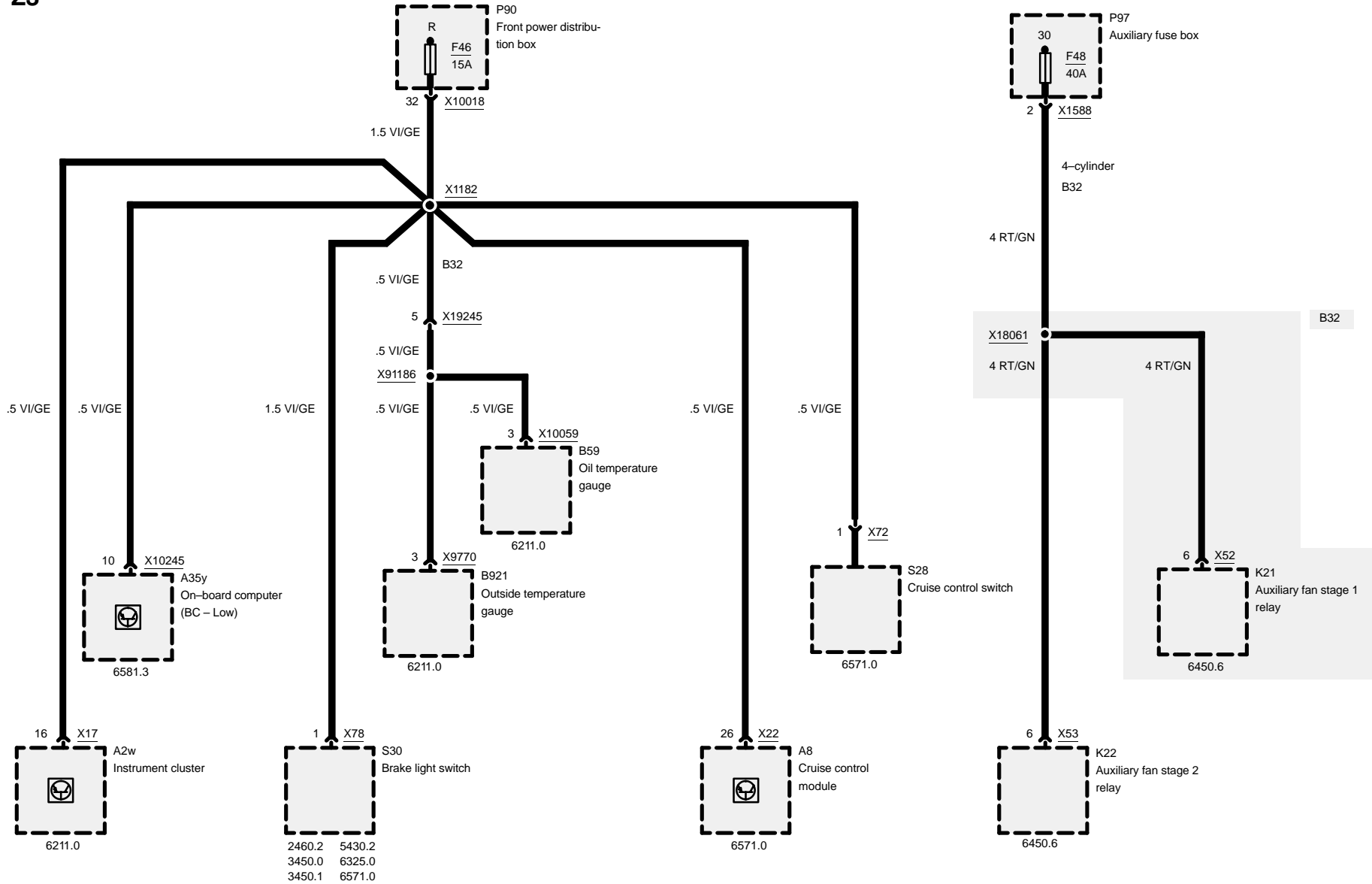




Z3

Fuse details

Fuses 46 and 48

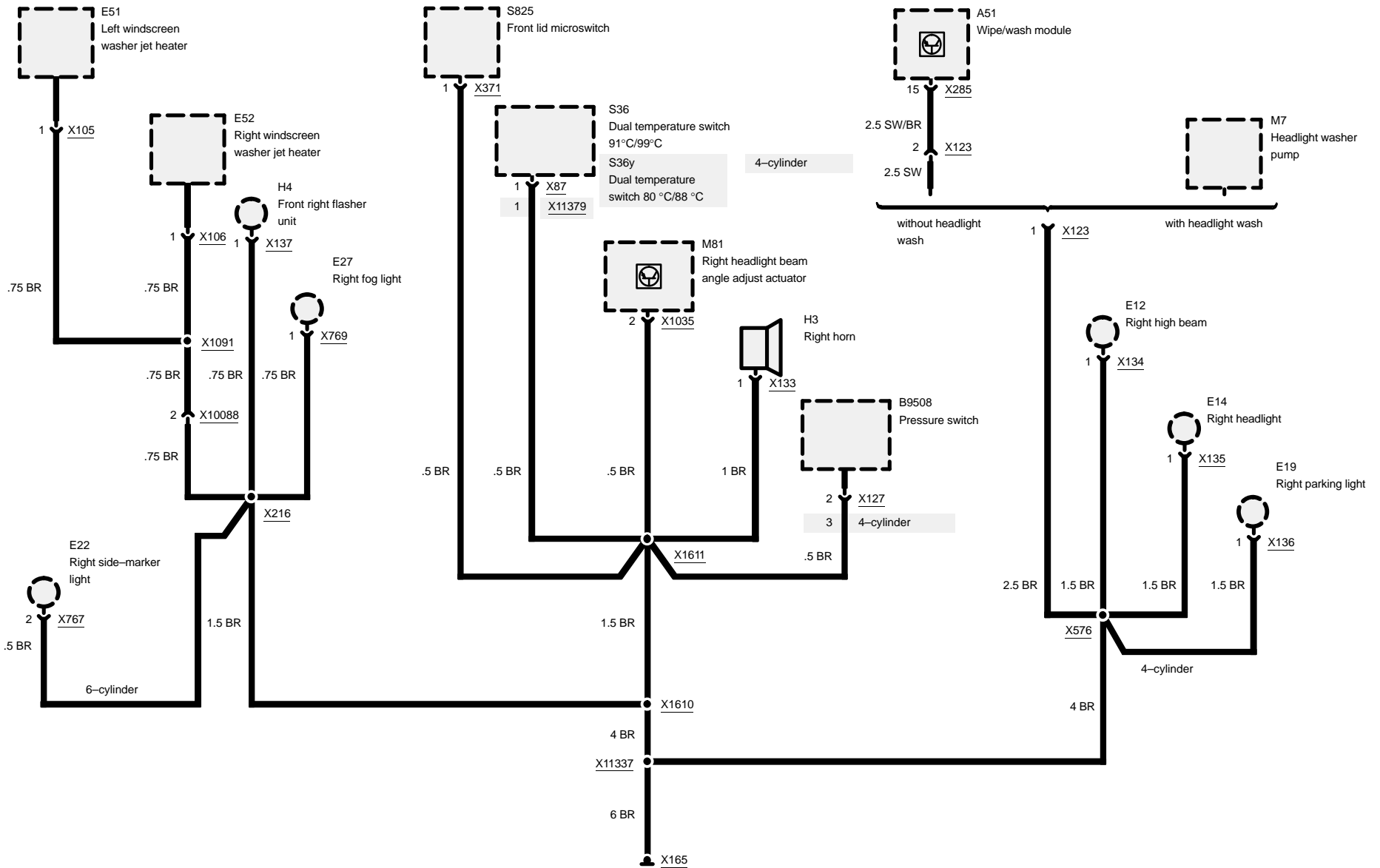




0670.4 Ground distribution

Ground X165

Z3

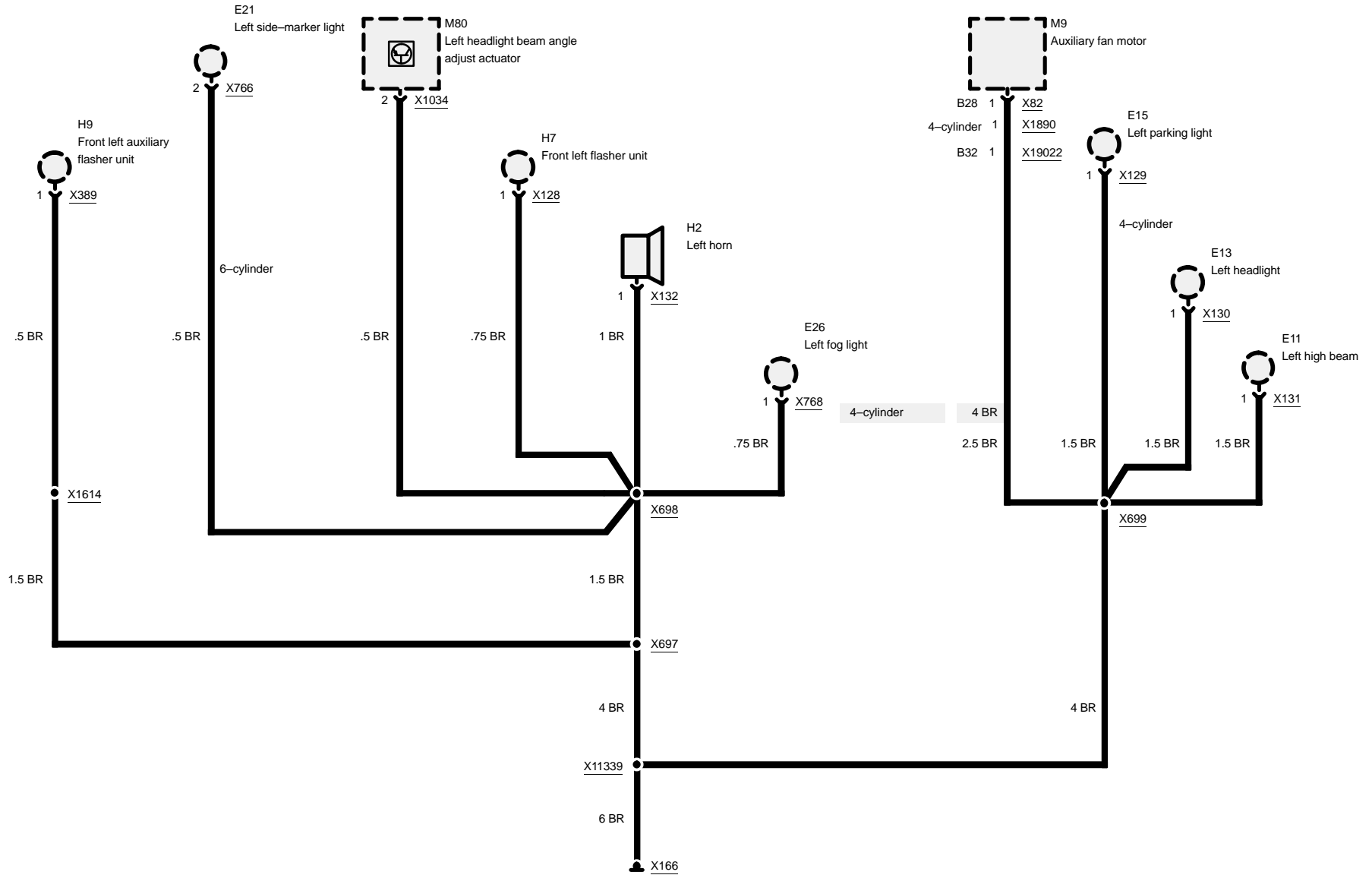




Z3

Ground distribution

Ground X166

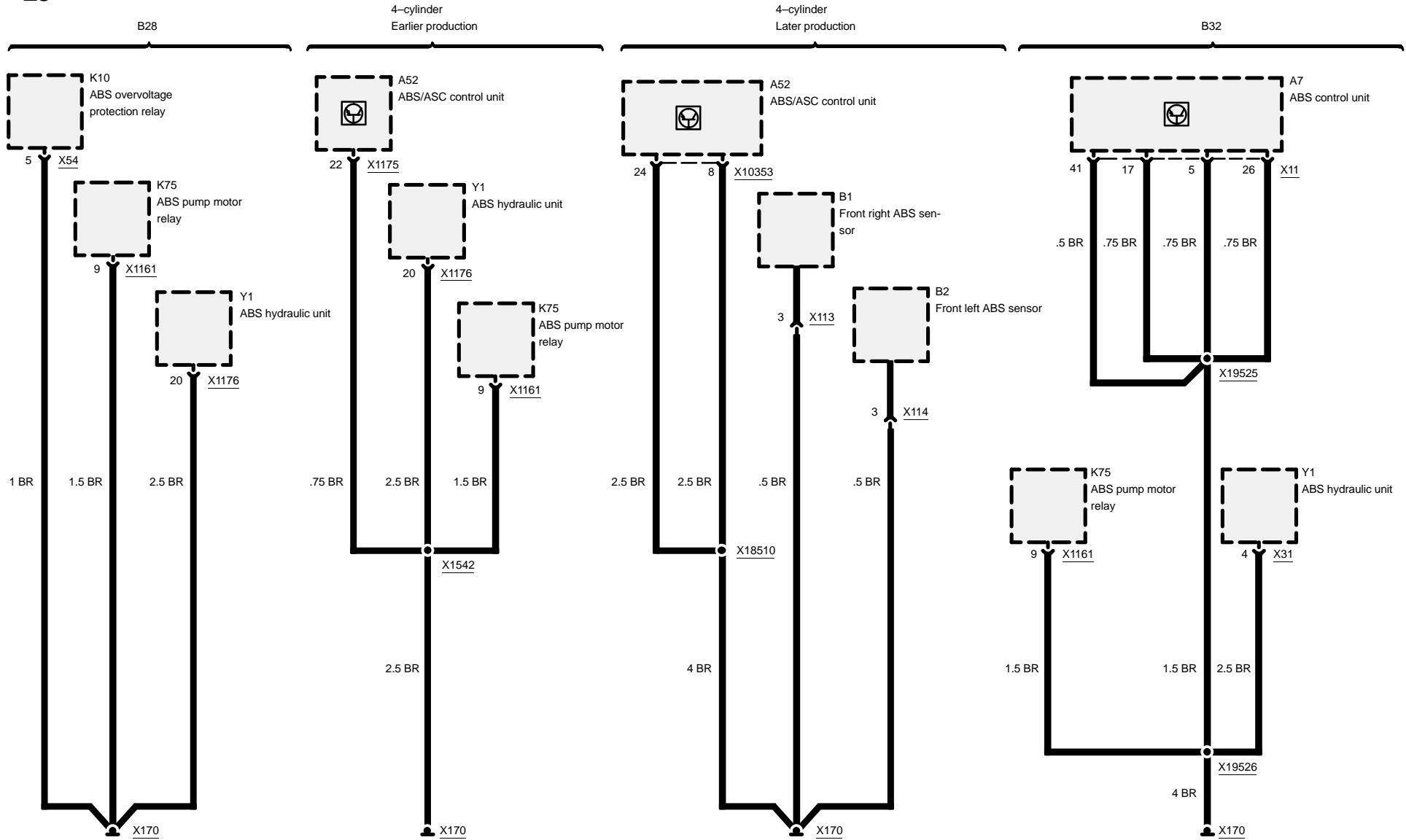




Ground distribution

Ground X170

Z3

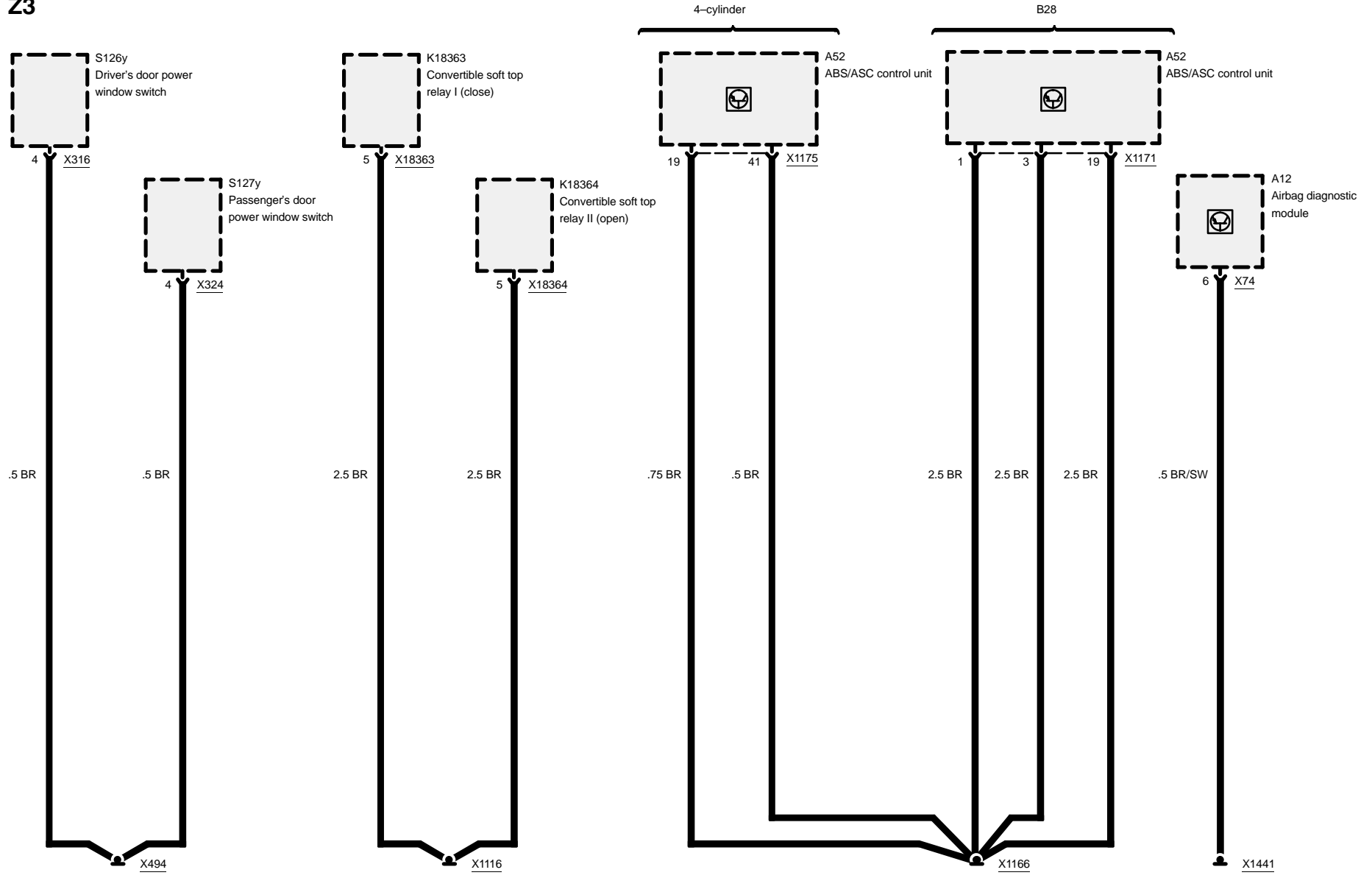




Ground distribution

Ground X494, X1116, X1166 and X1441

Z3



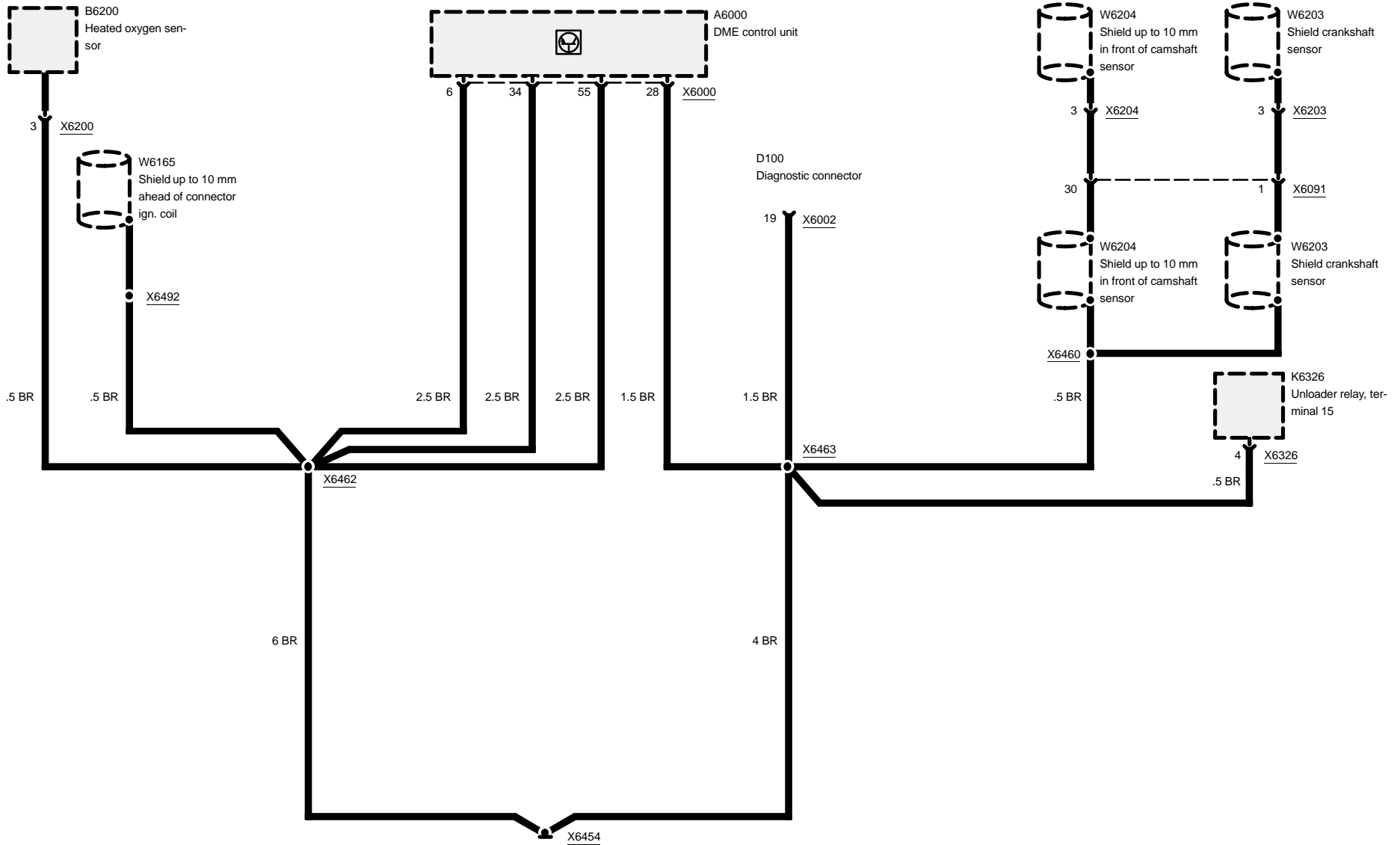


Ground distribution

B18

Ground X6454

Z3



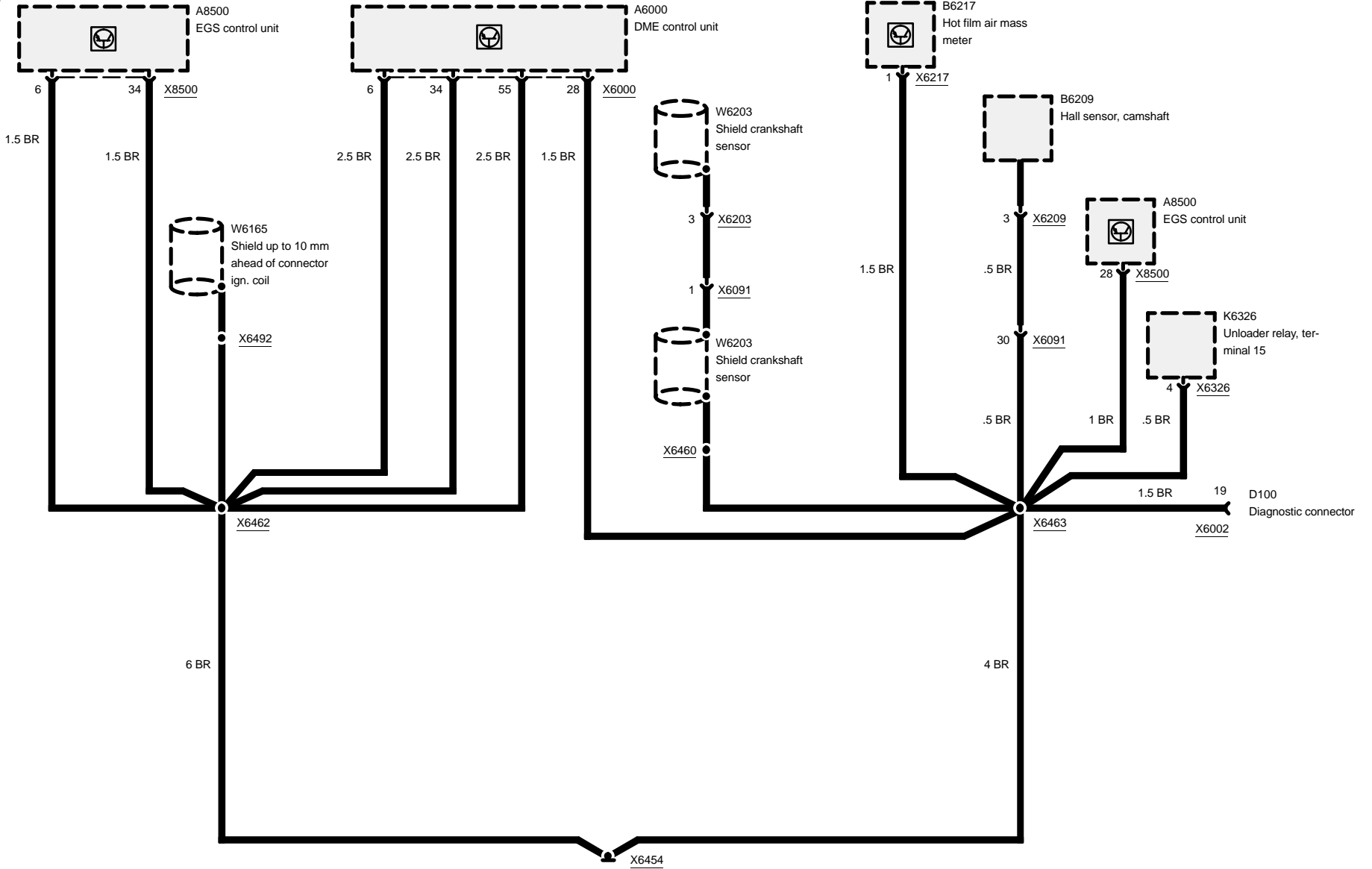


Ground distribution

Ground X6454

B19

Z3



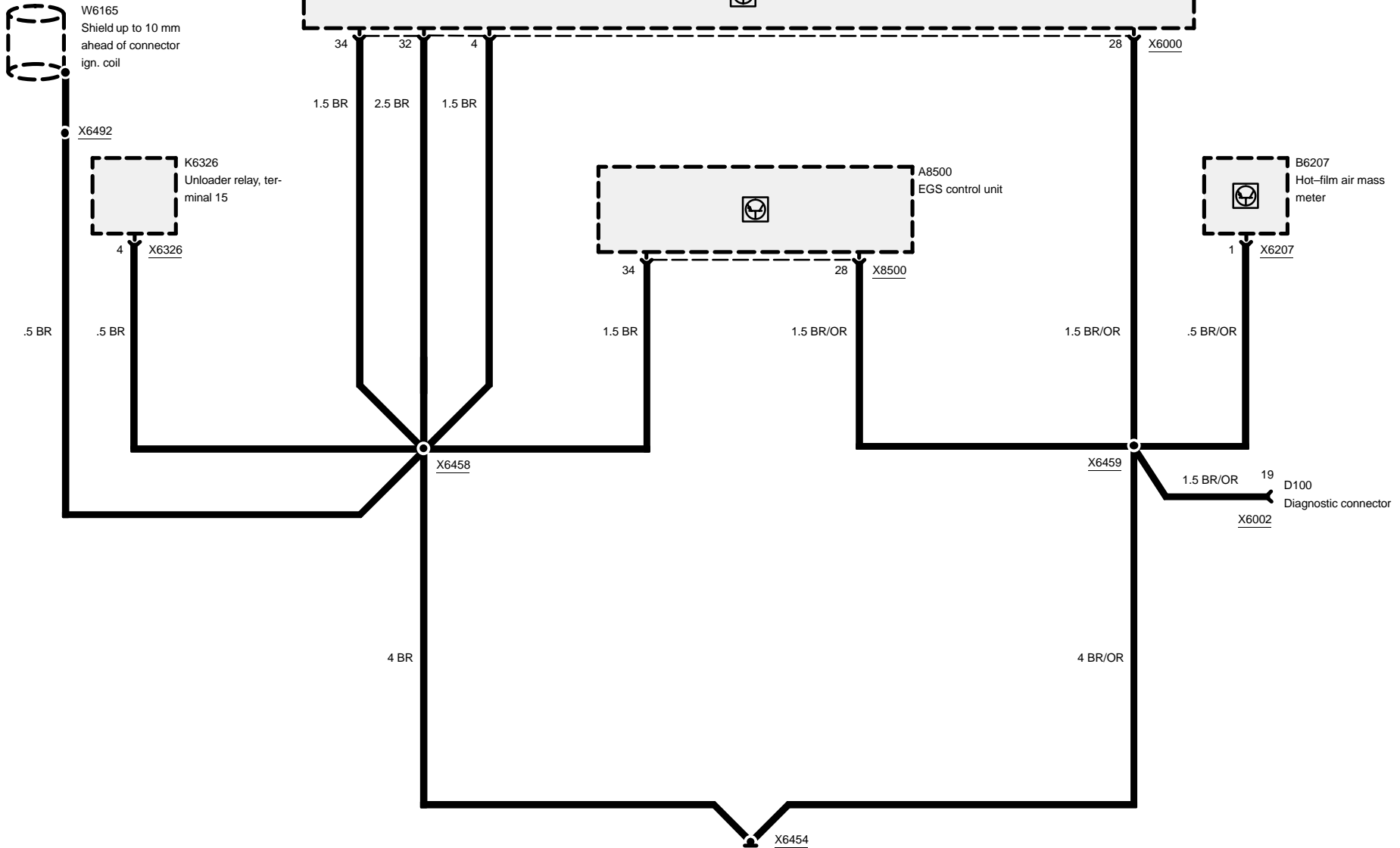


Ground distribution

B28

Ground X6454

Z3



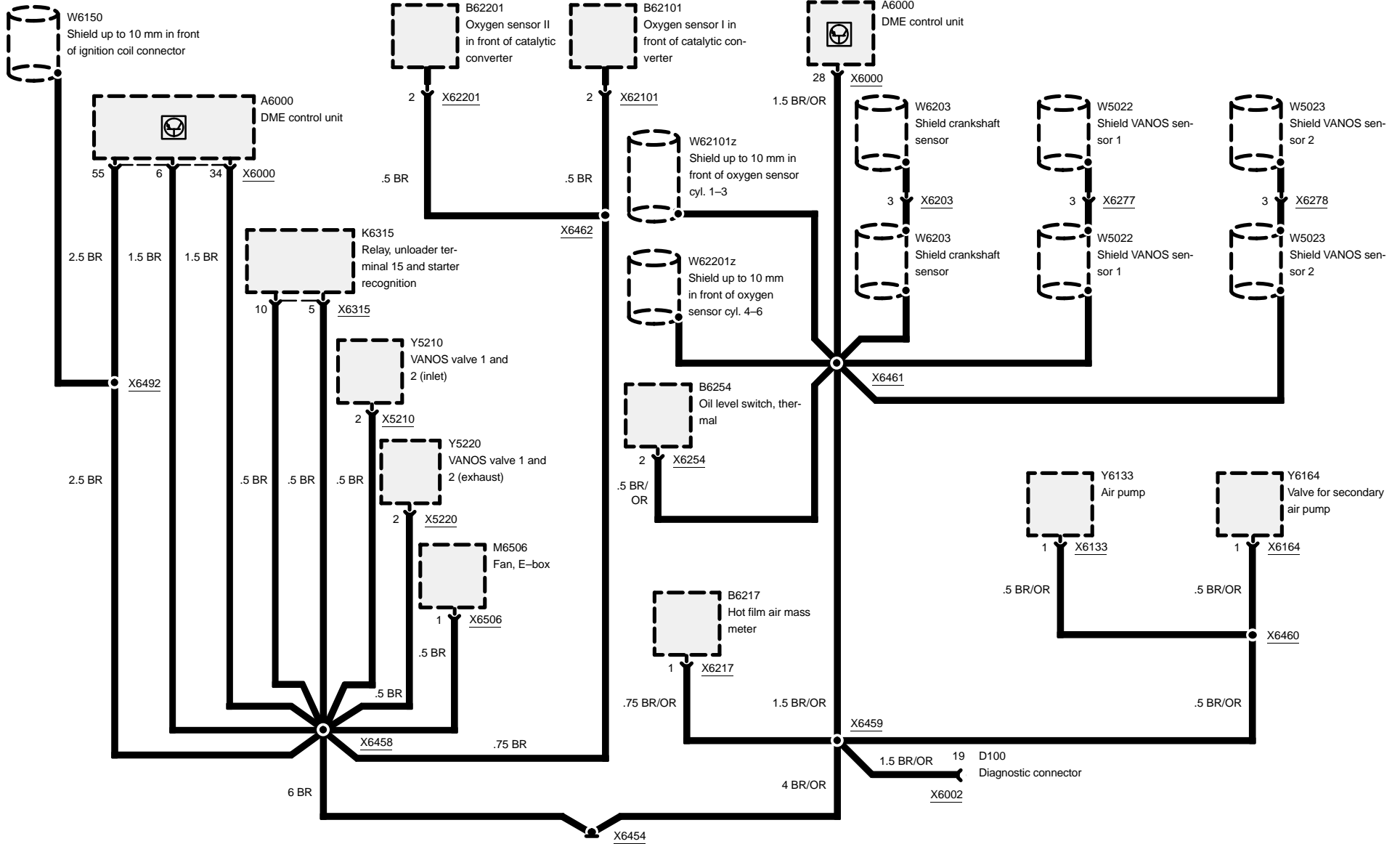


Ground distribution

Ground X6454

B32

Z3



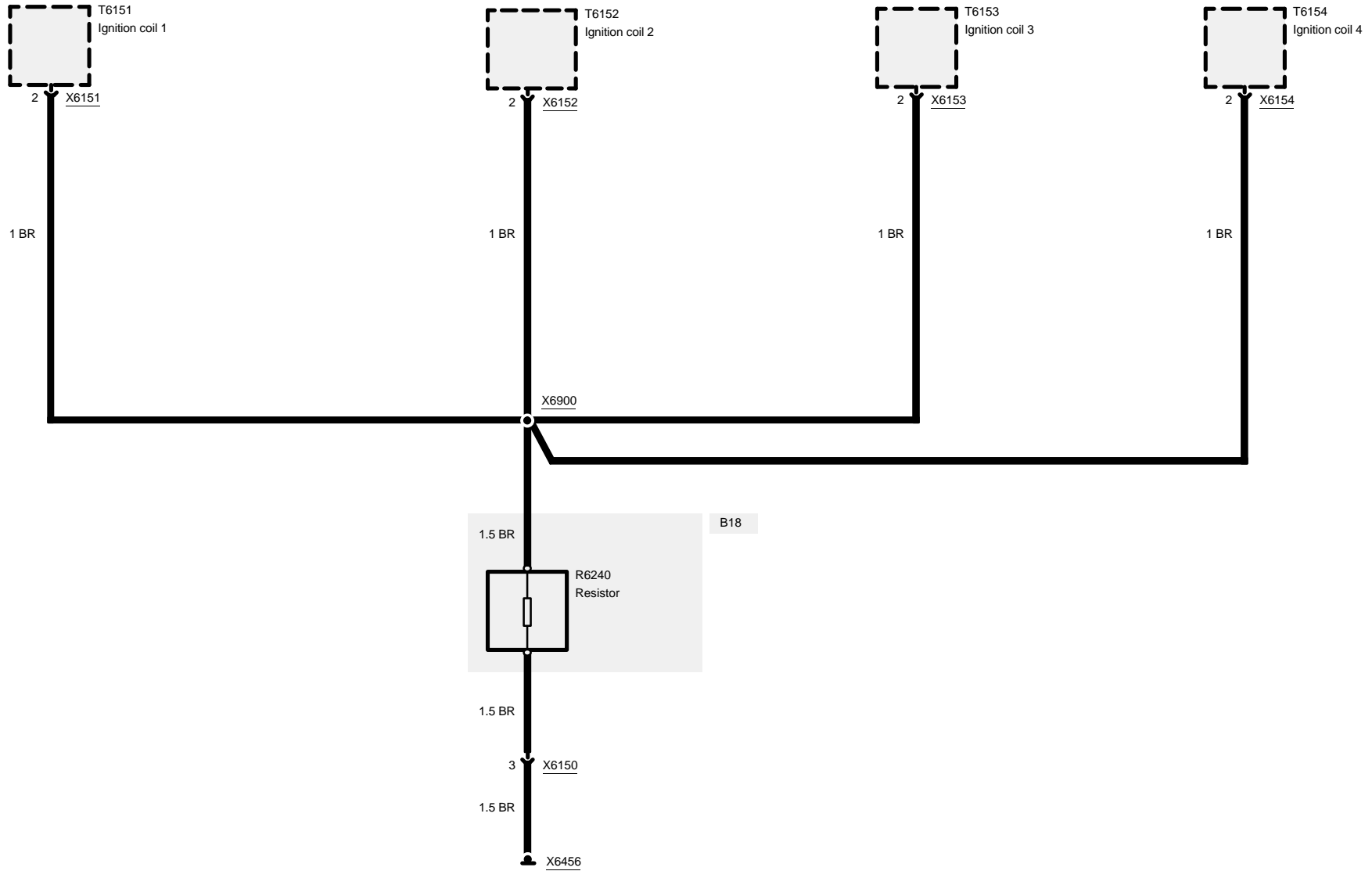


Ground distribution

4-cylinder

Ground X6456

Z3



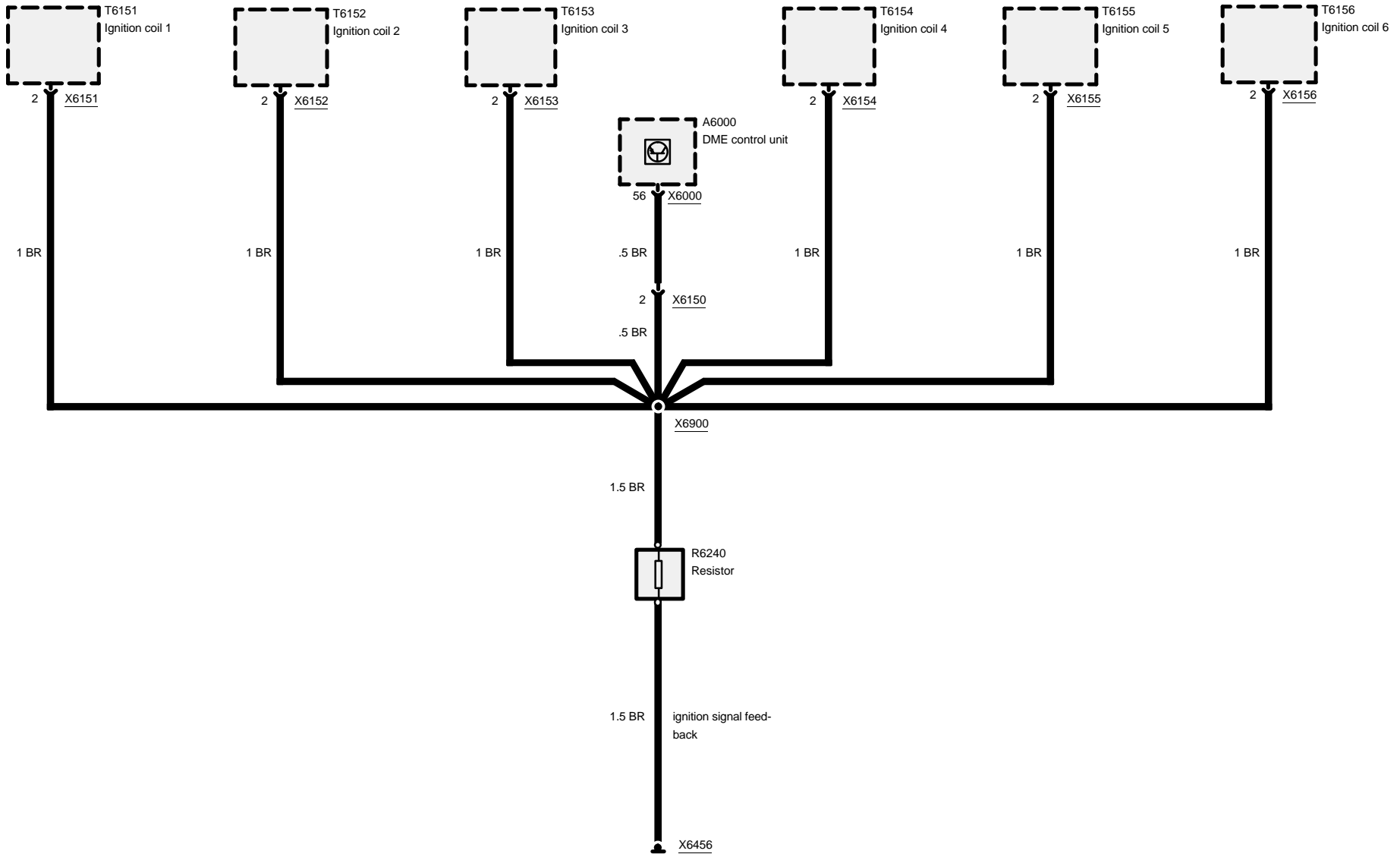


Ground distribution

B28

Ground X6456

Z3



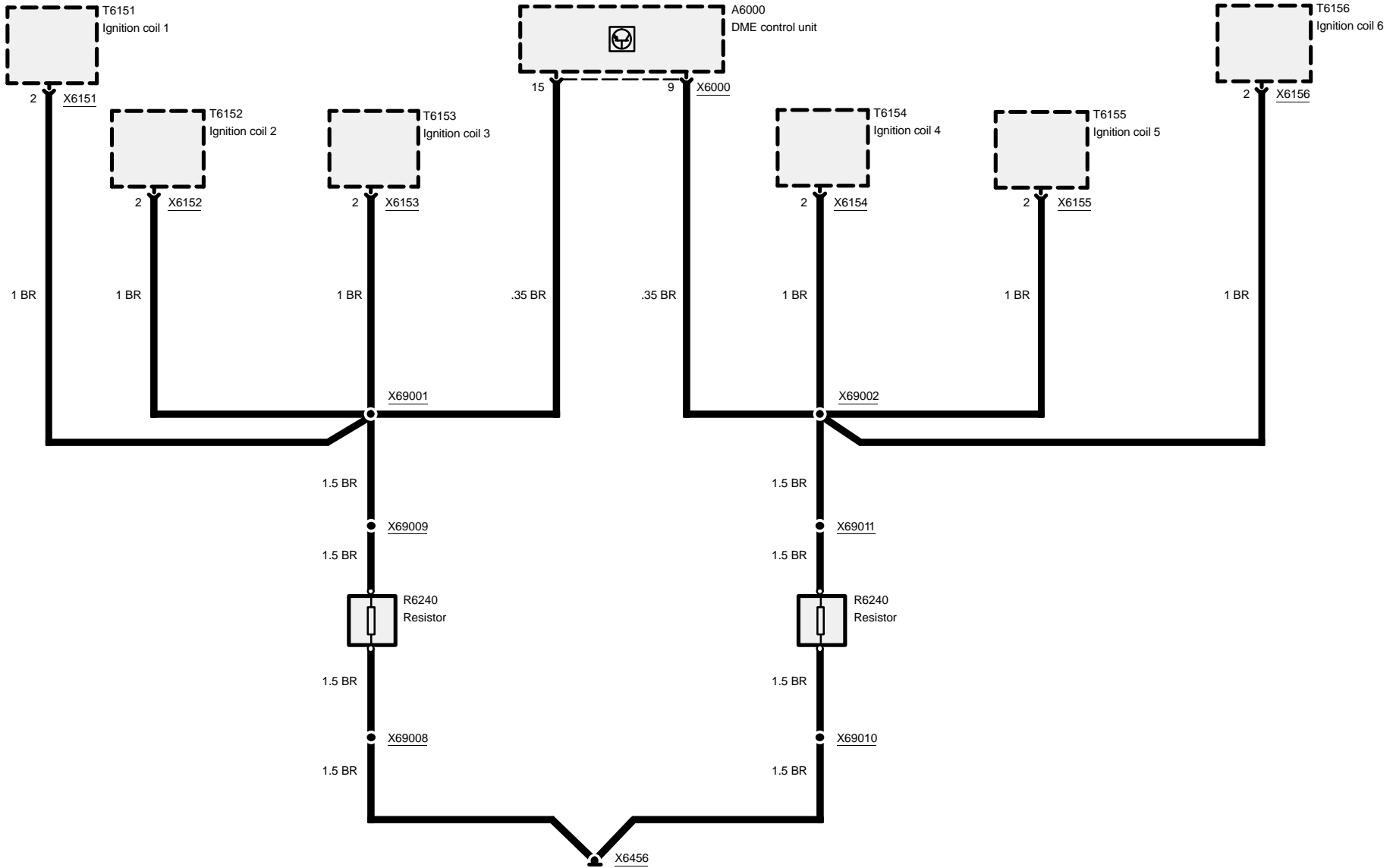


Ground distribution

B32

Ground X6456

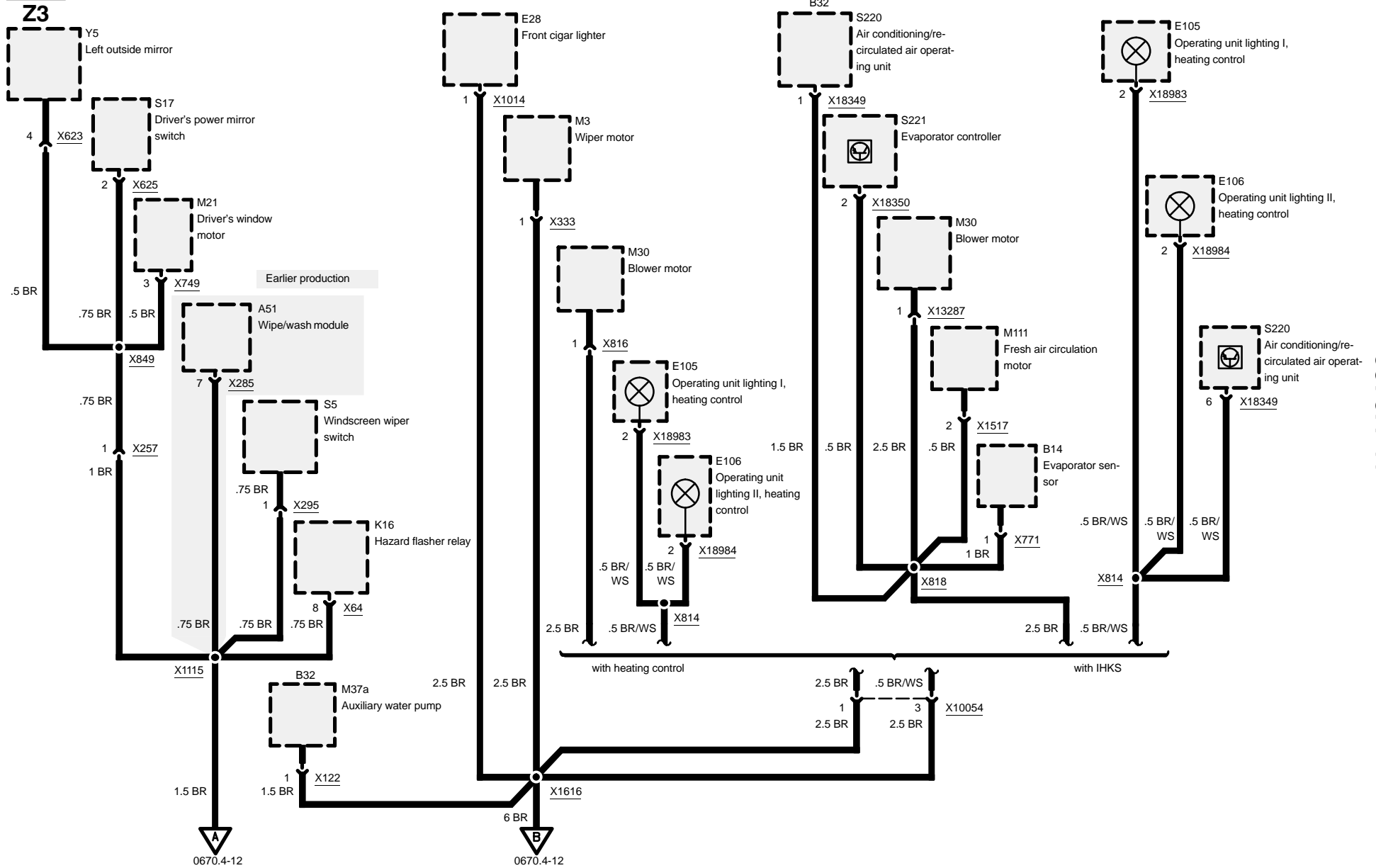
Z3





Ground distribution

Ground X9633

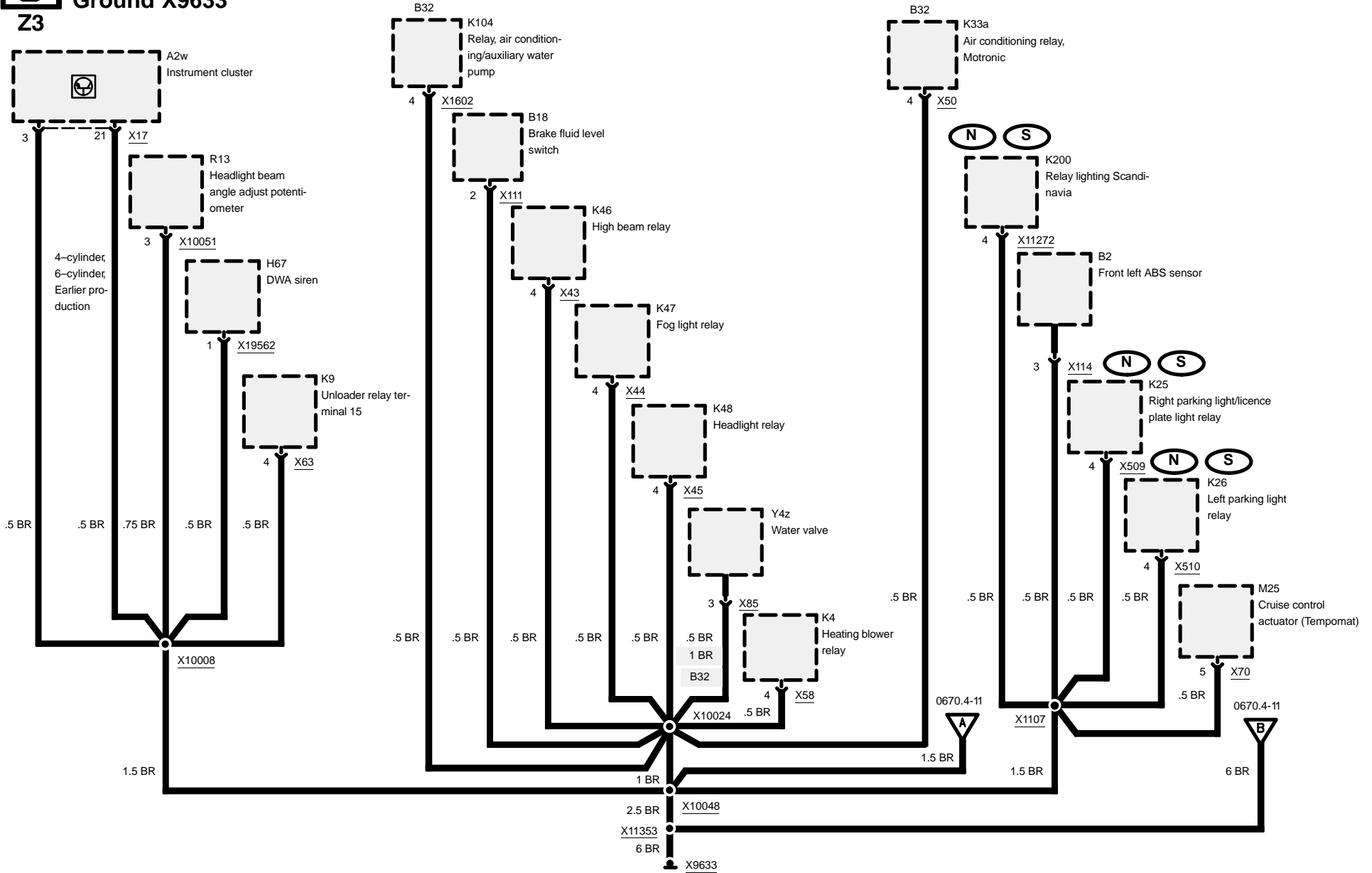




Ground distribution

Ground X9633

Z3

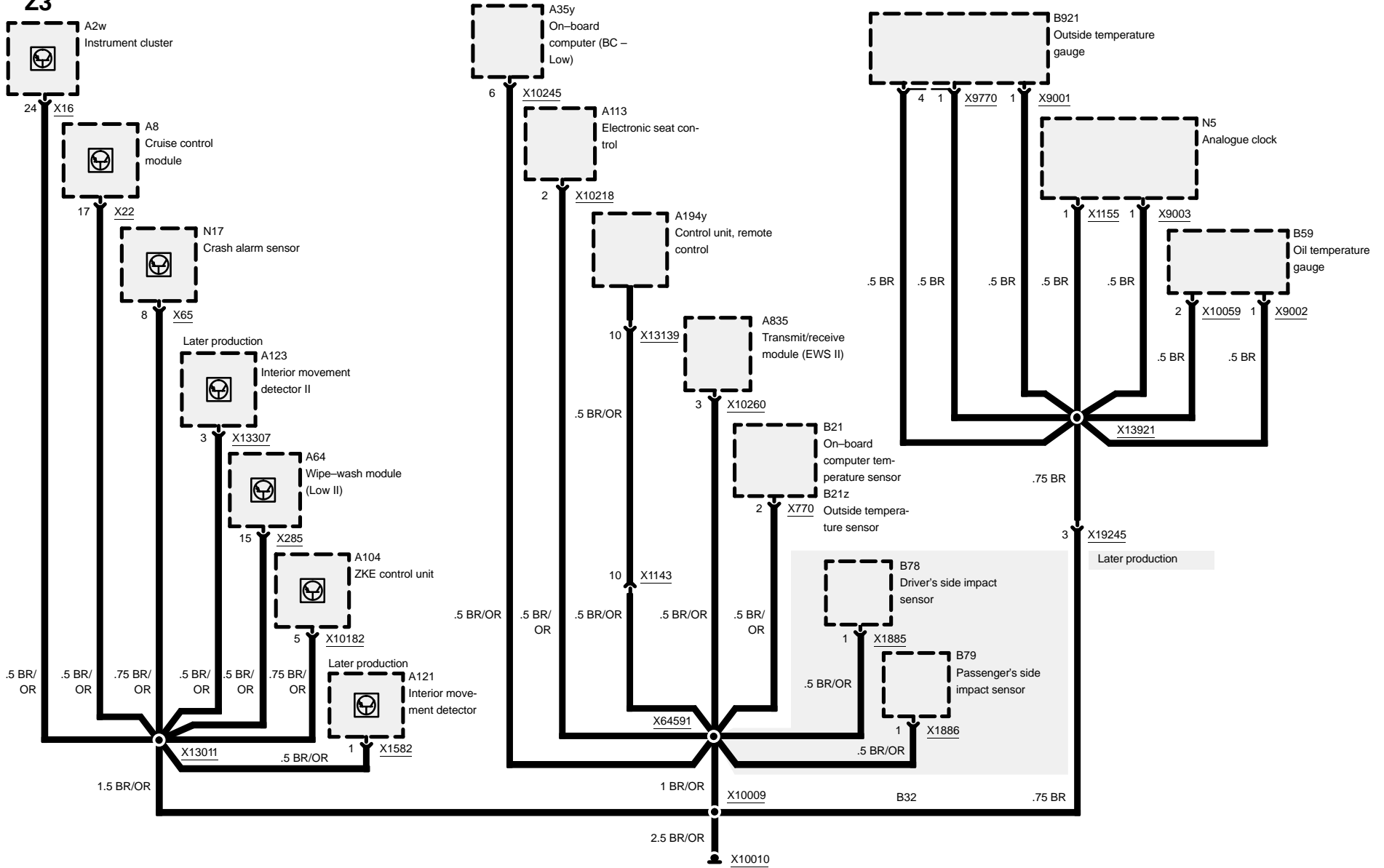




Ground distribution

Ground X10010

Z3

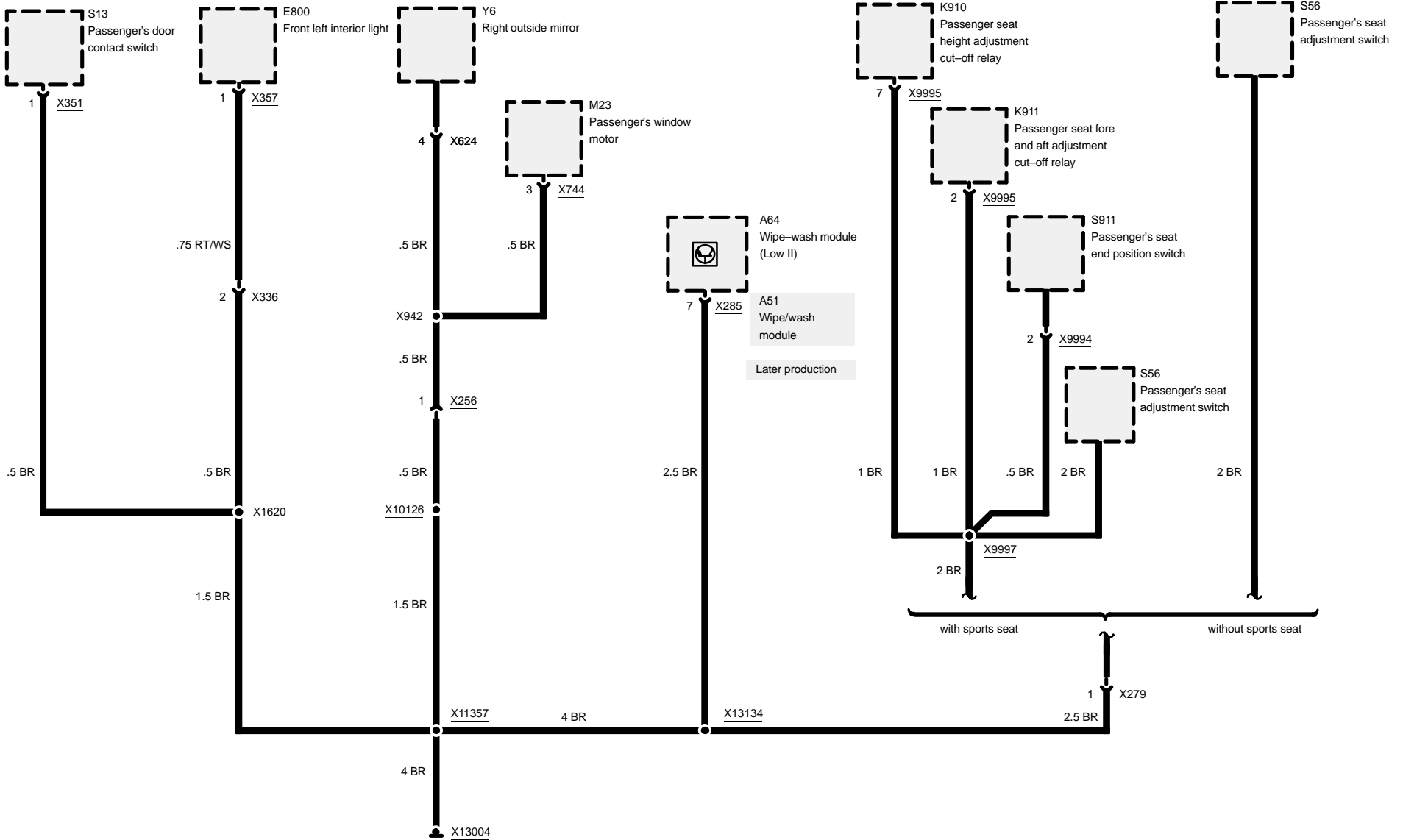




Ground distribution

Ground X13004

Z3

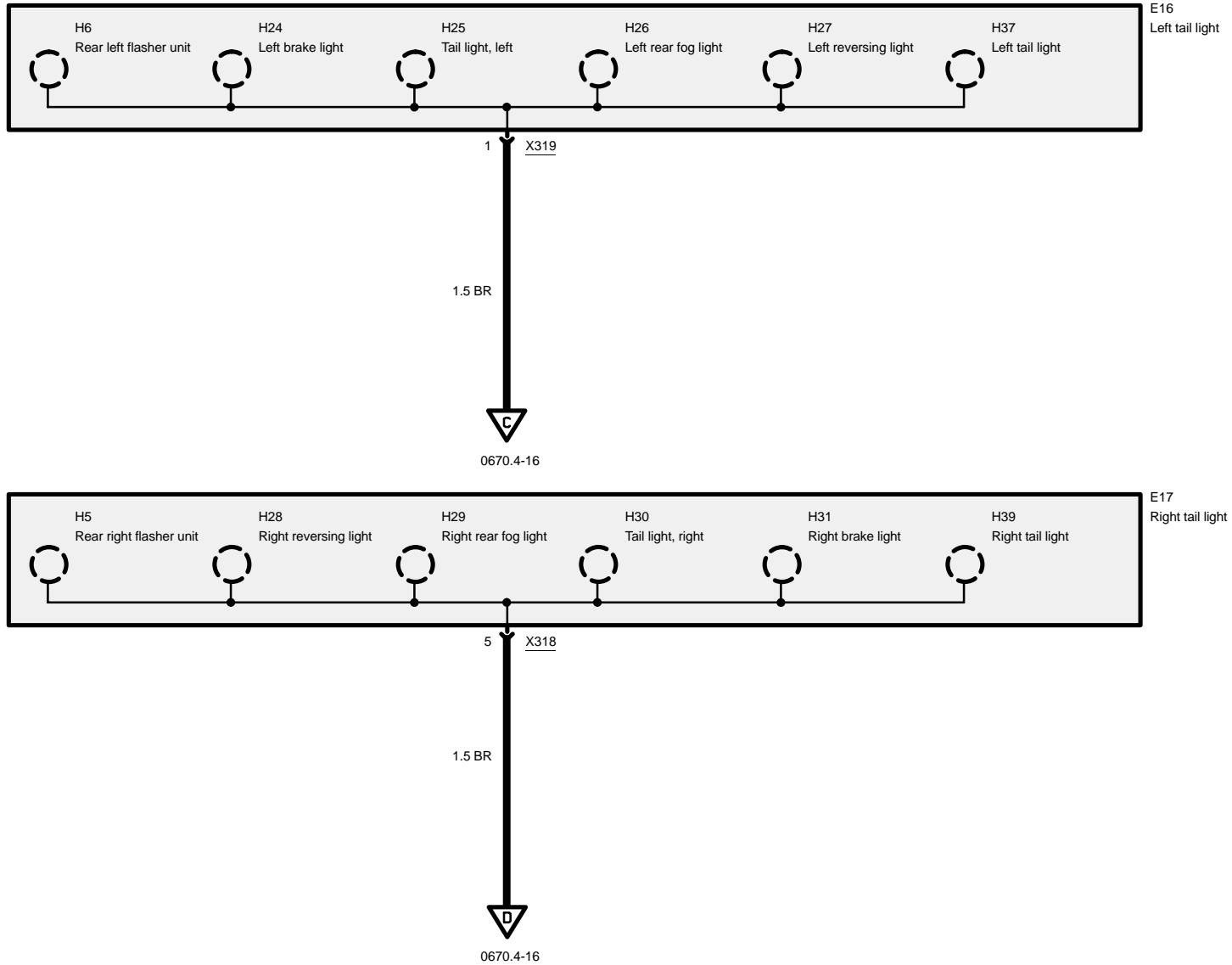




Z3

Ground distribution

Ground X13006

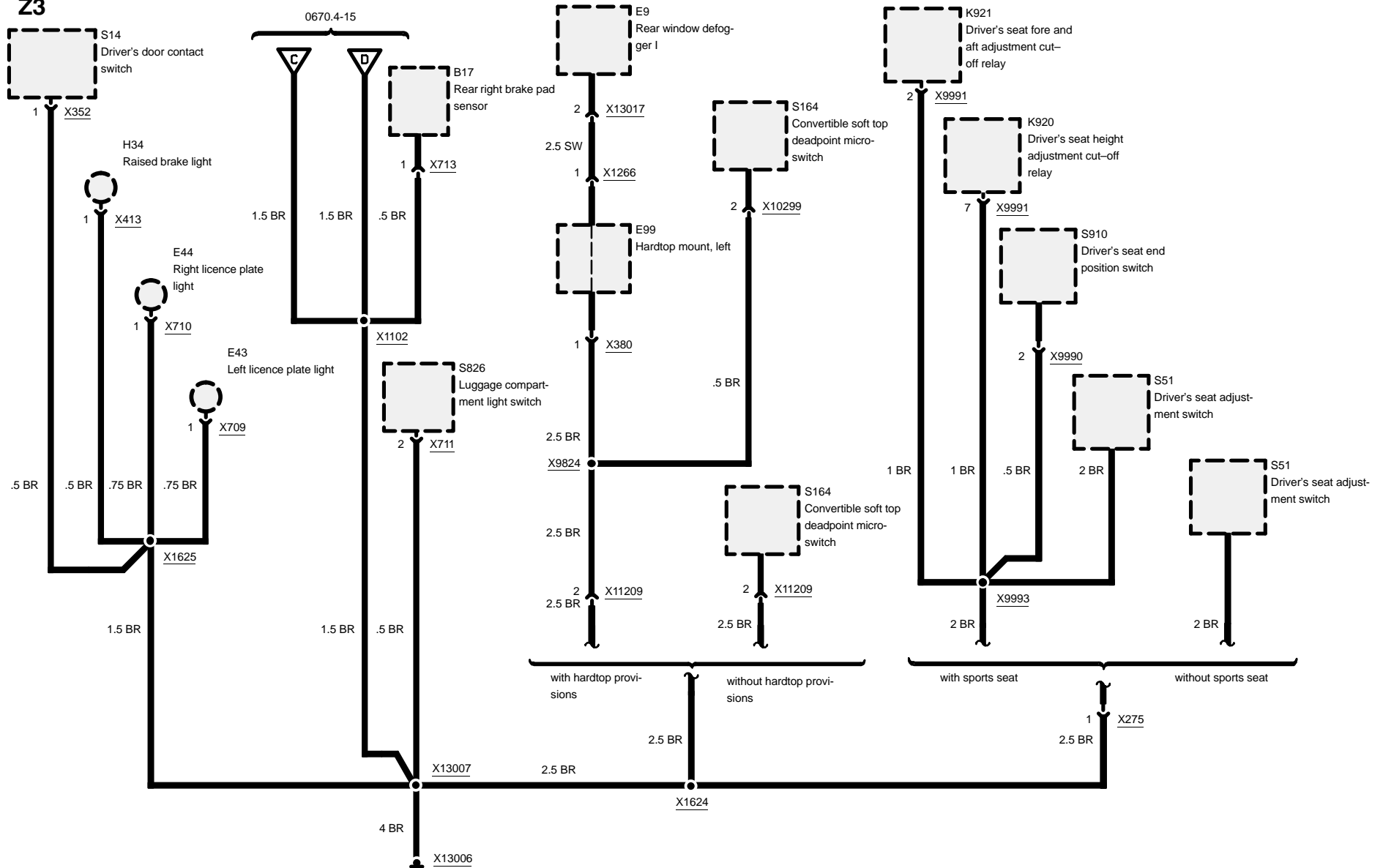




Ground distribution

Ground X13006

Z3

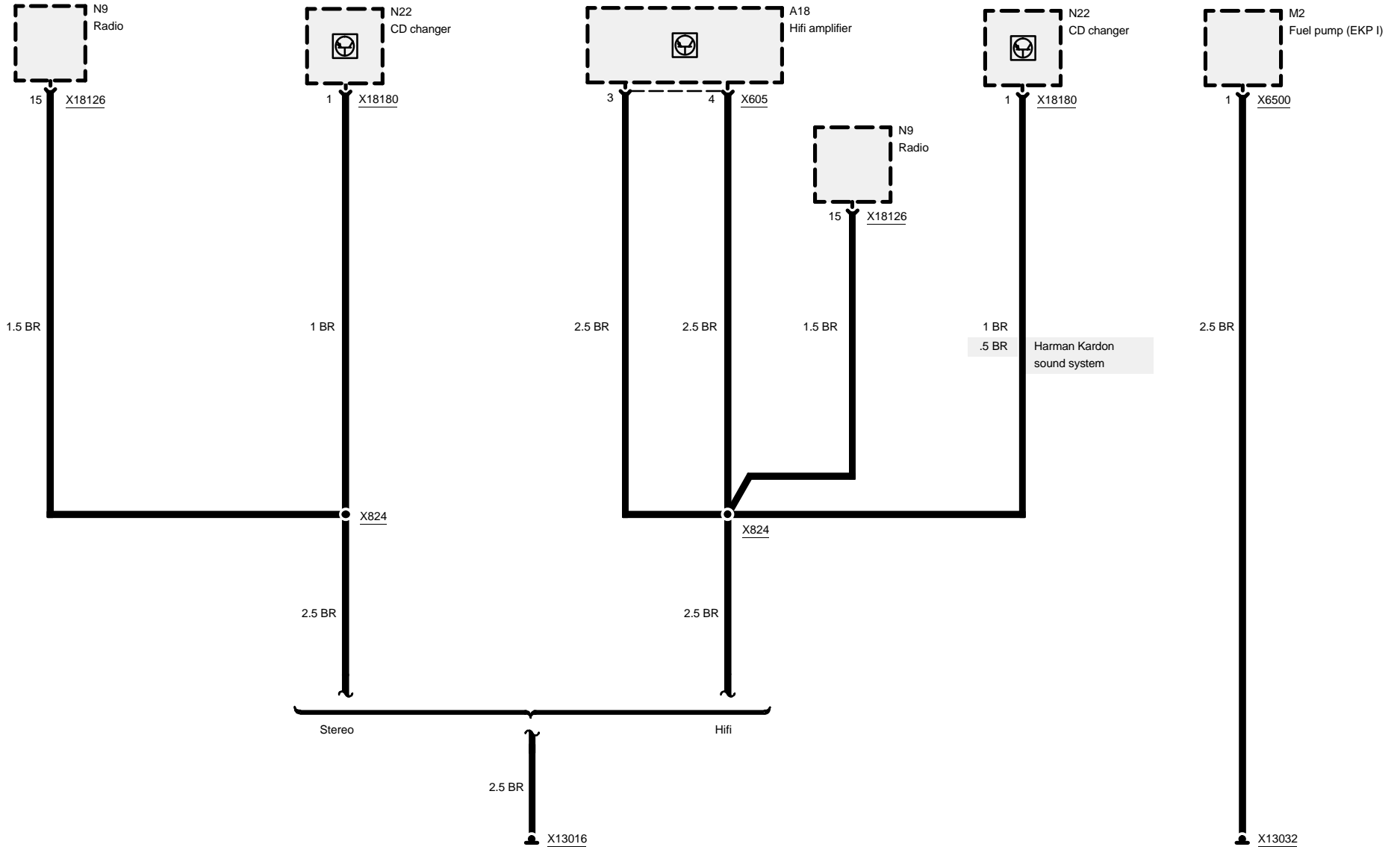




Ground distribution

Ground X13016 and X13032

Z3

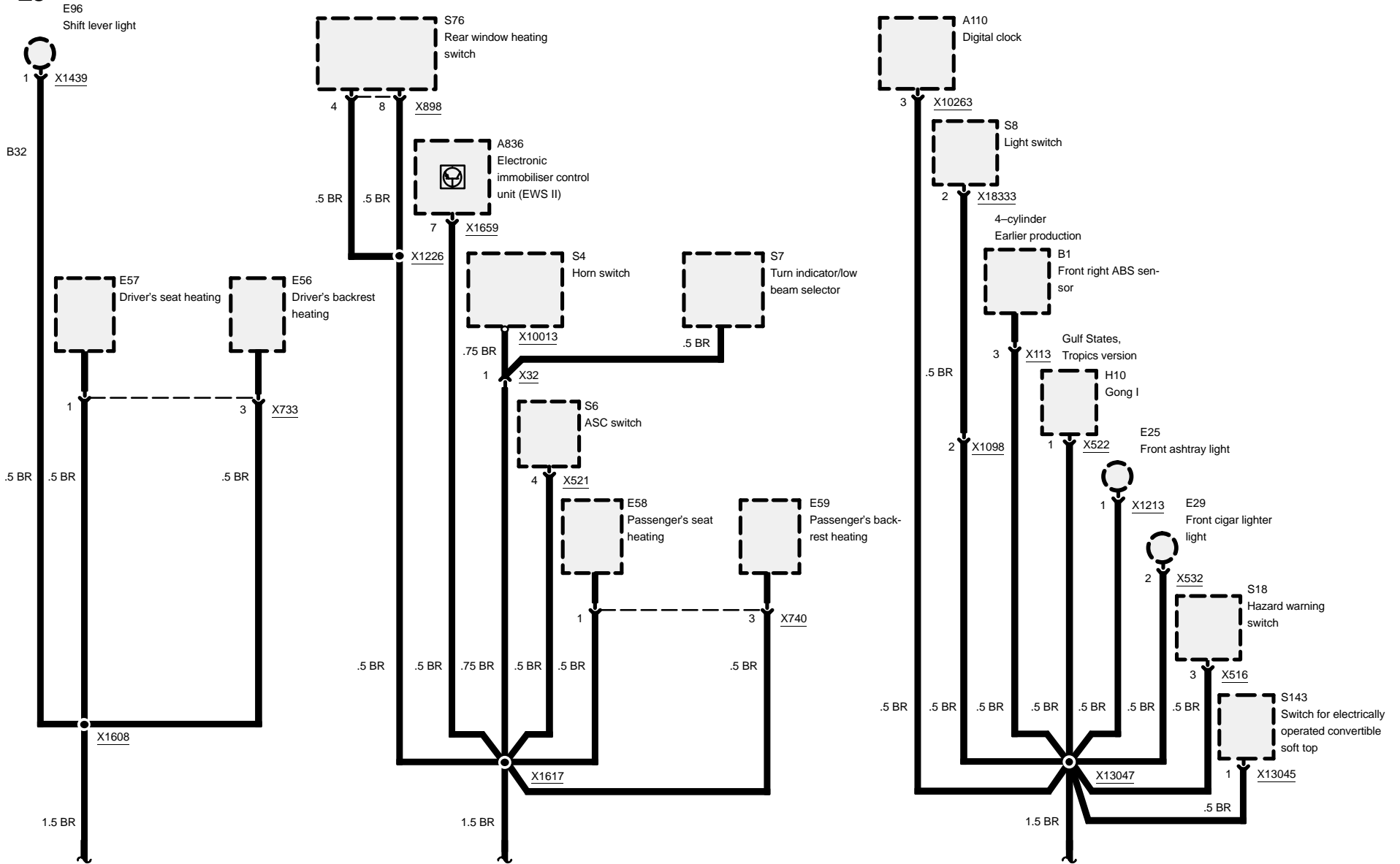


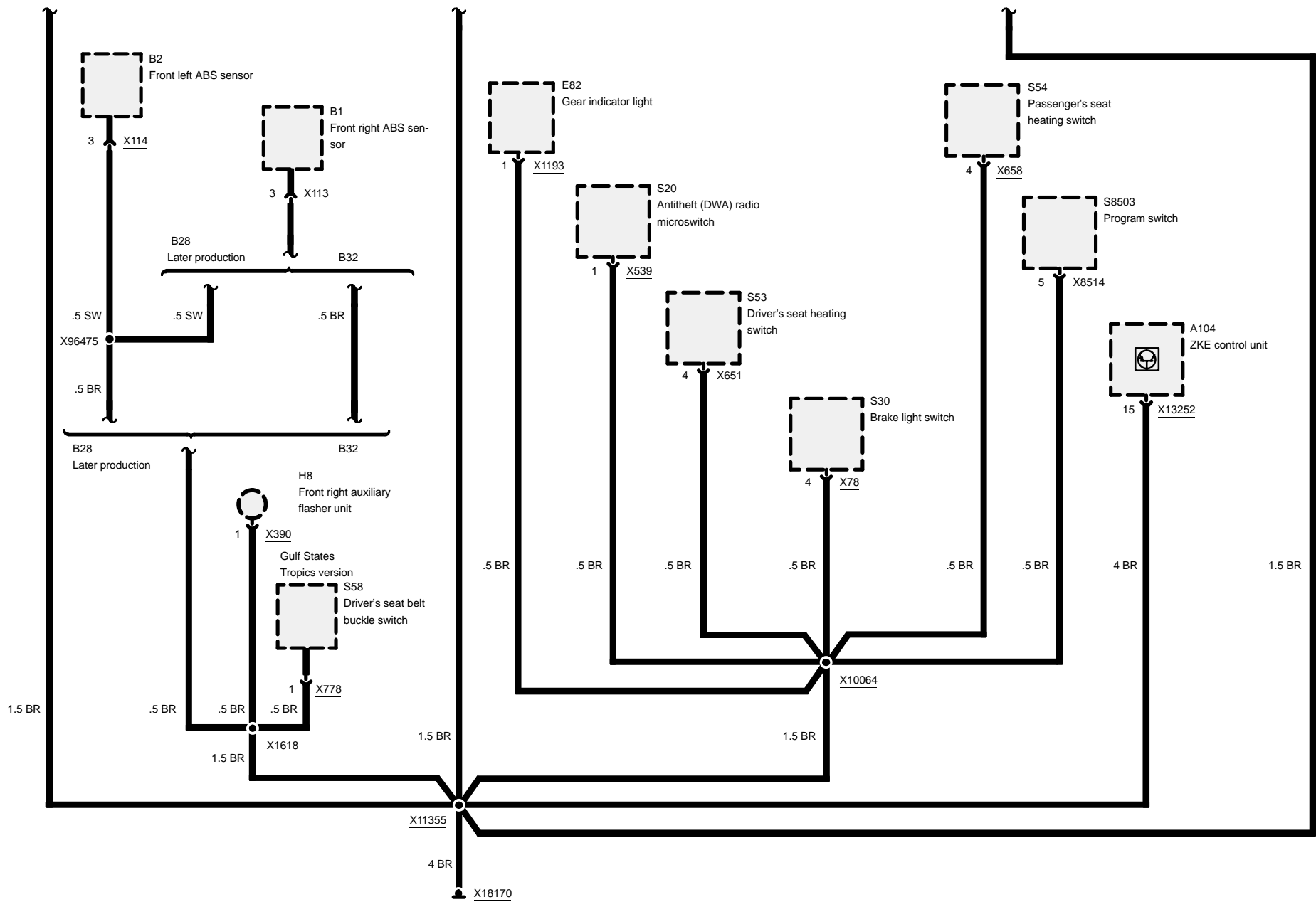


Ground distribution

Ground X18170

Z3



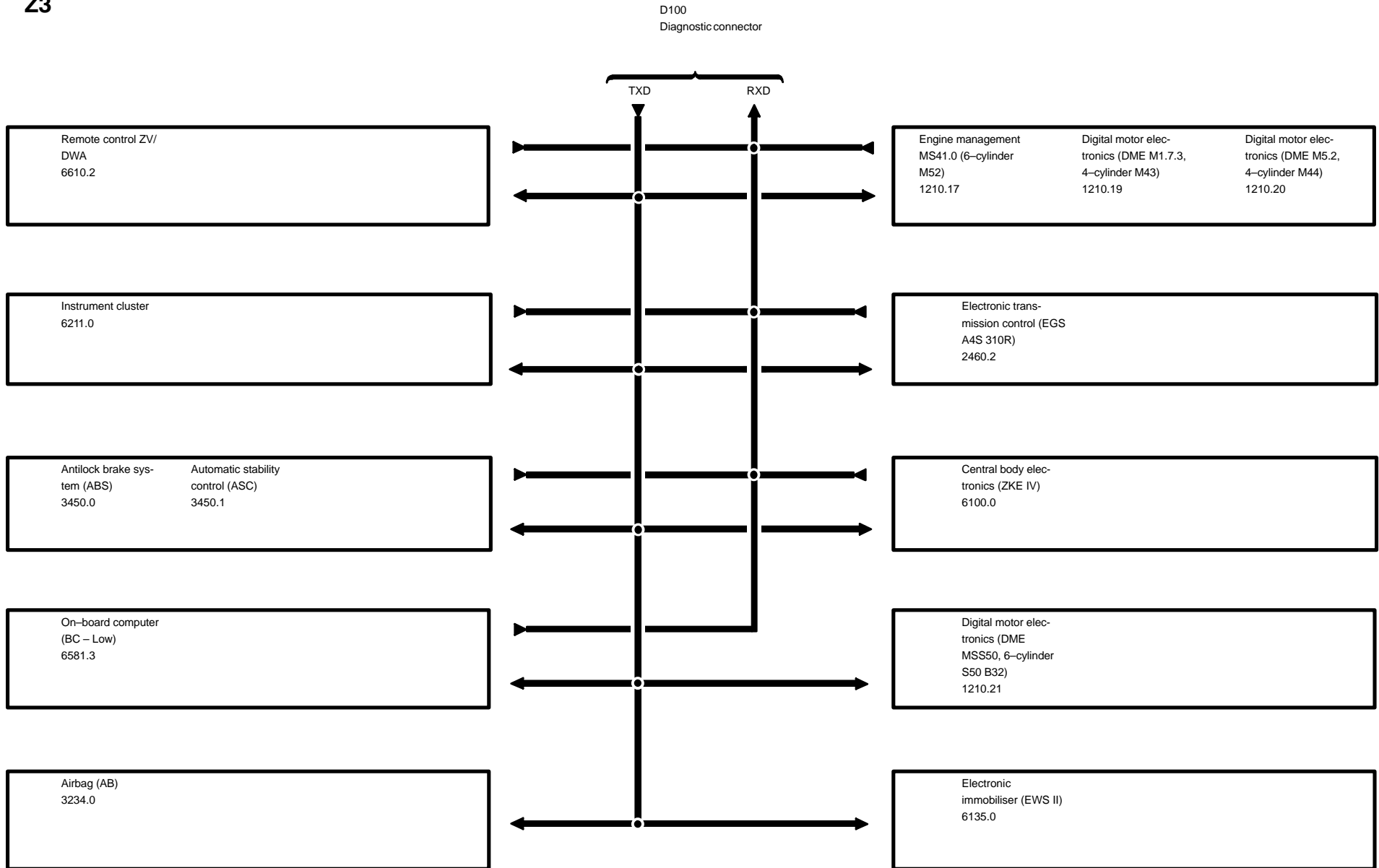




0670.5 Diagnostic link

Block diagram

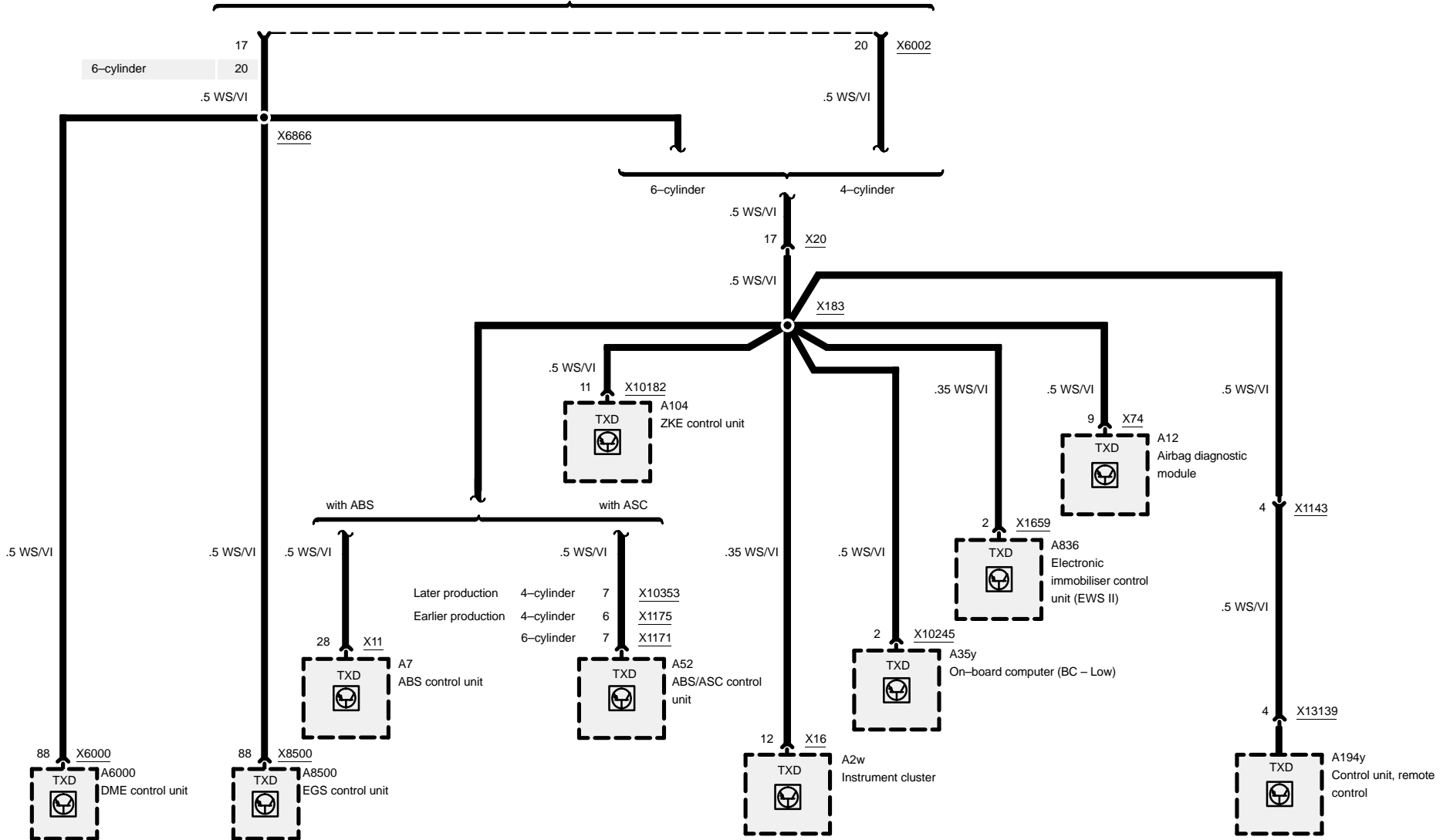
Z3



Diagnostic link

TXD

D100
Diagnostic connector

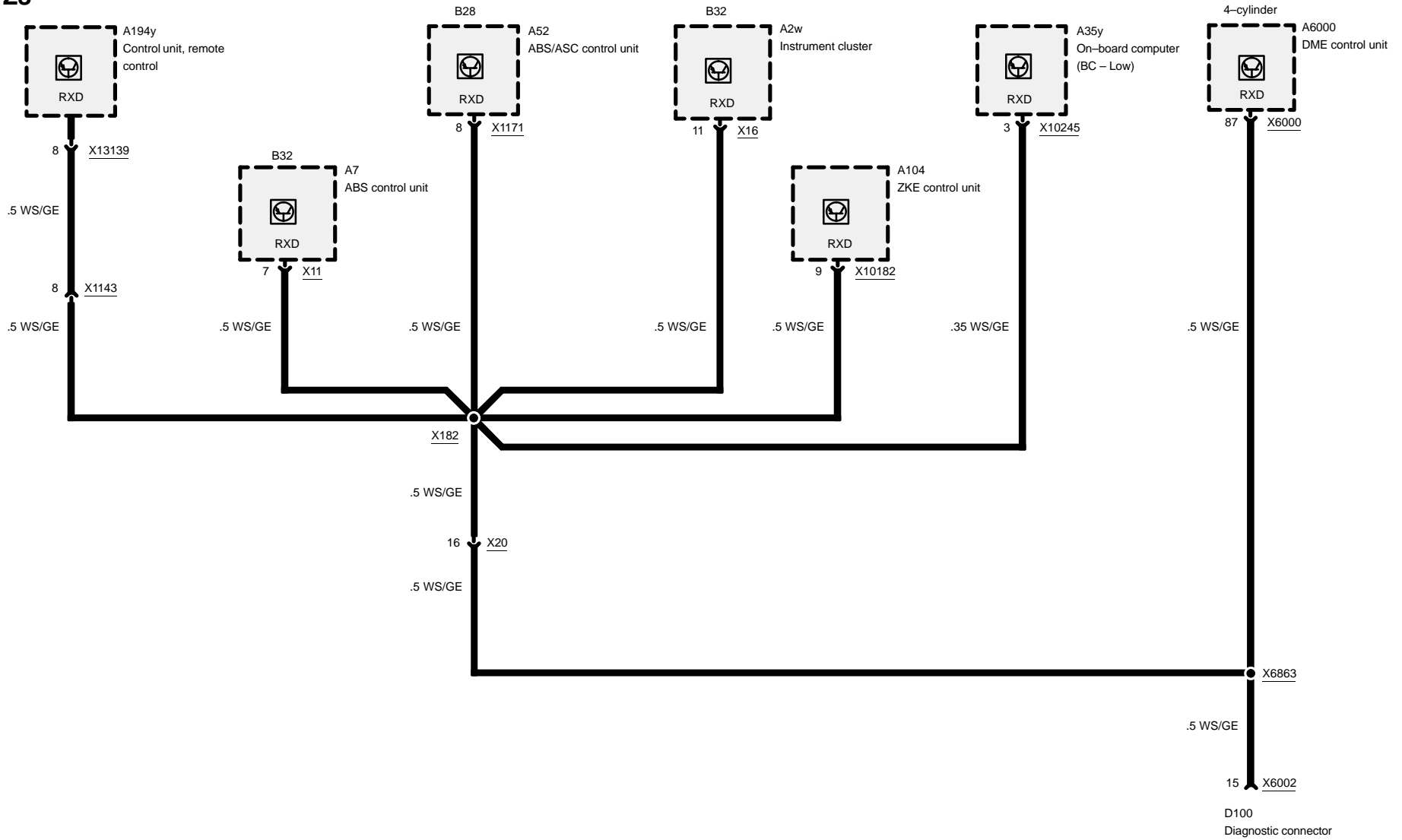




Diagnostic link

RXD

Z3

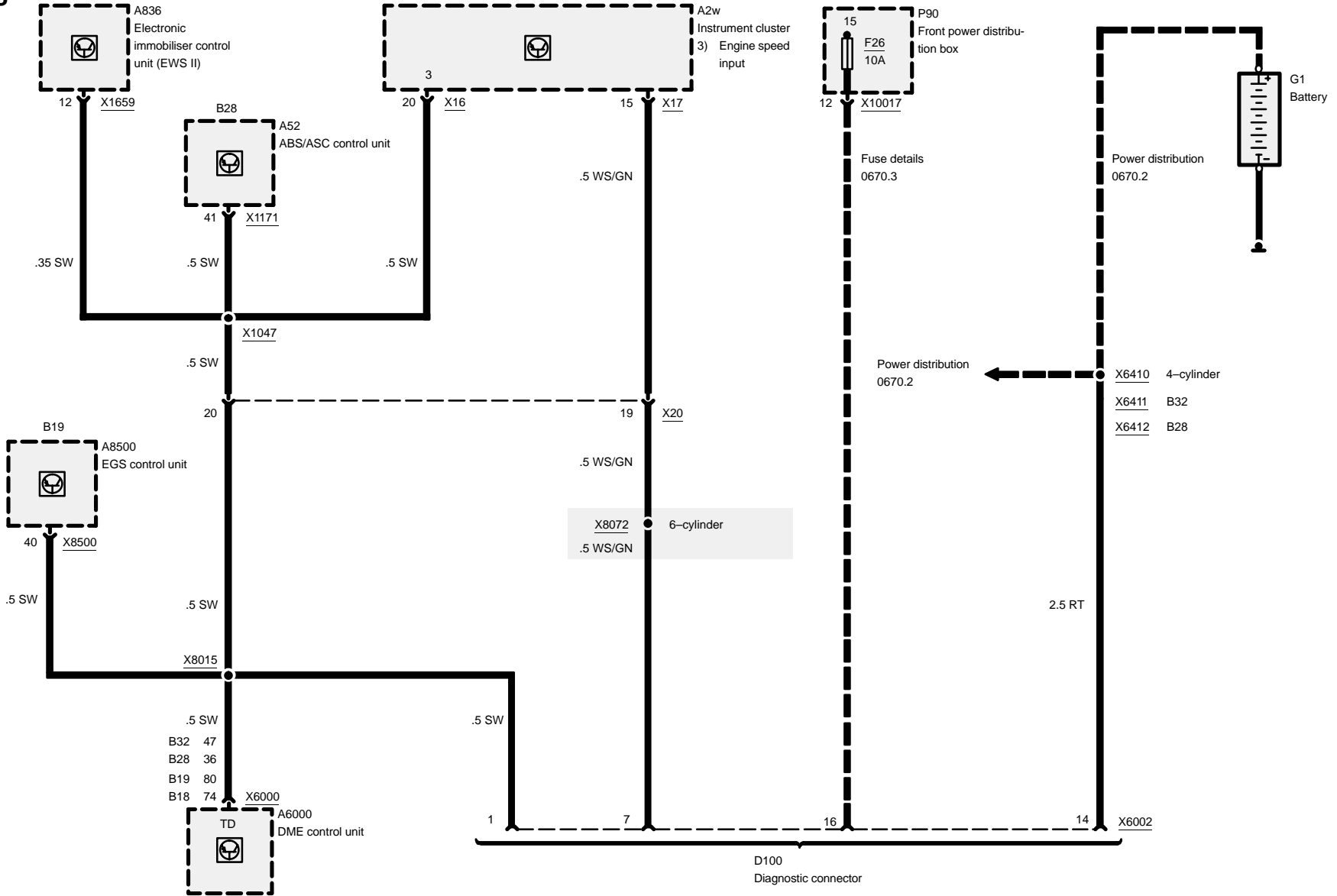




Diagnostic link

Diagnostic connector, pins 1, 7, 14 and 16

Z3

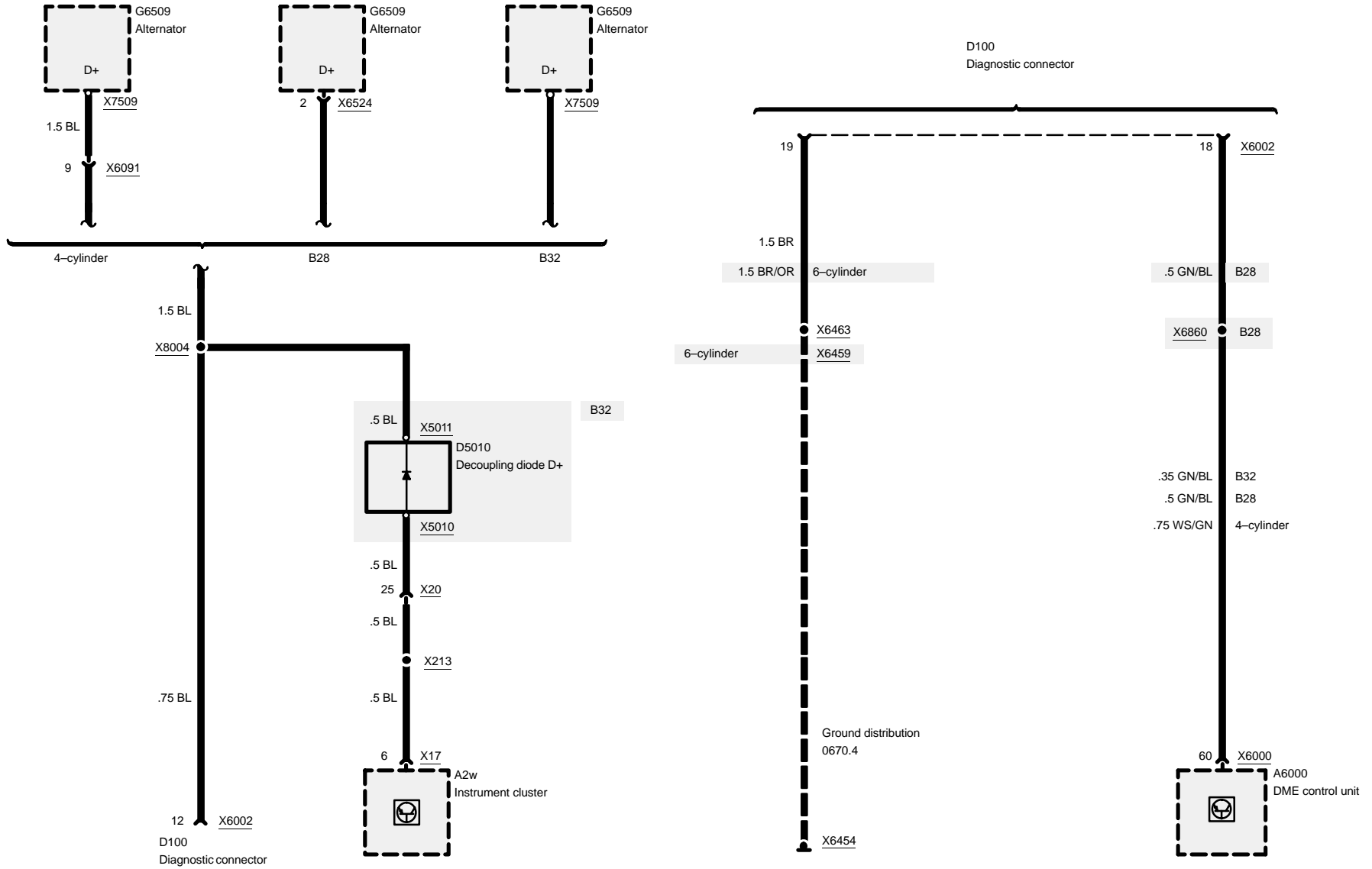




Diagnostic link

Diagnostic connector, pins 12, 18 and 19

Z3





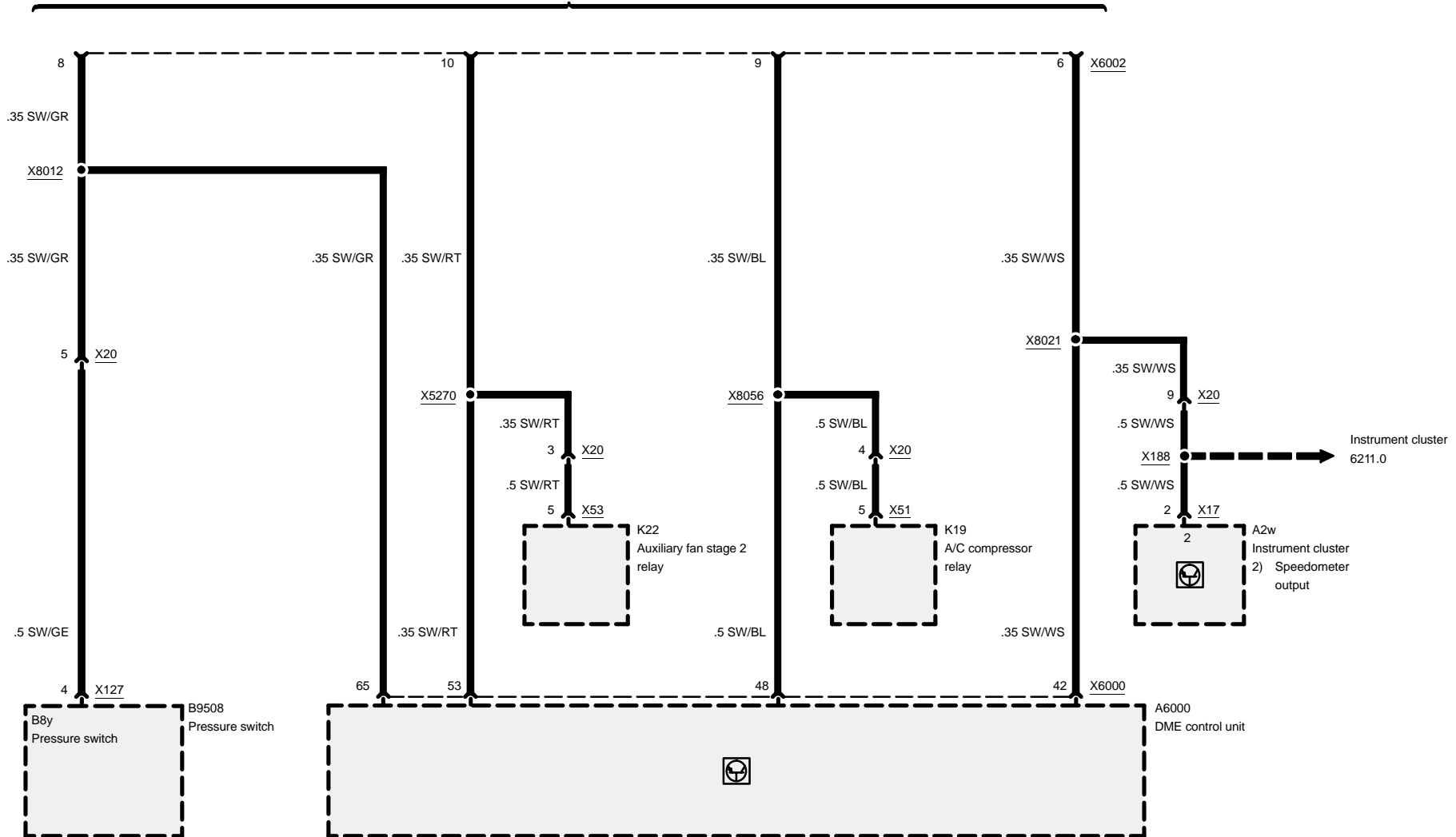
Diagnostic link

B32

Diagnostic connector, pins 6, 8, 9 and 10

Z3

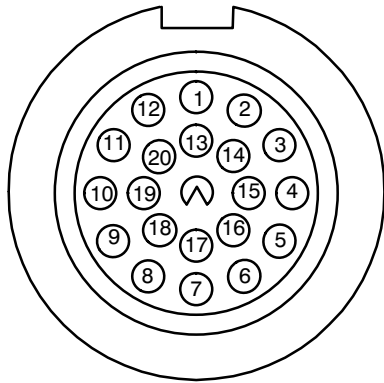
D100
Diagnostic connector





Diagnostic link

Diagnosis connector (X6002)



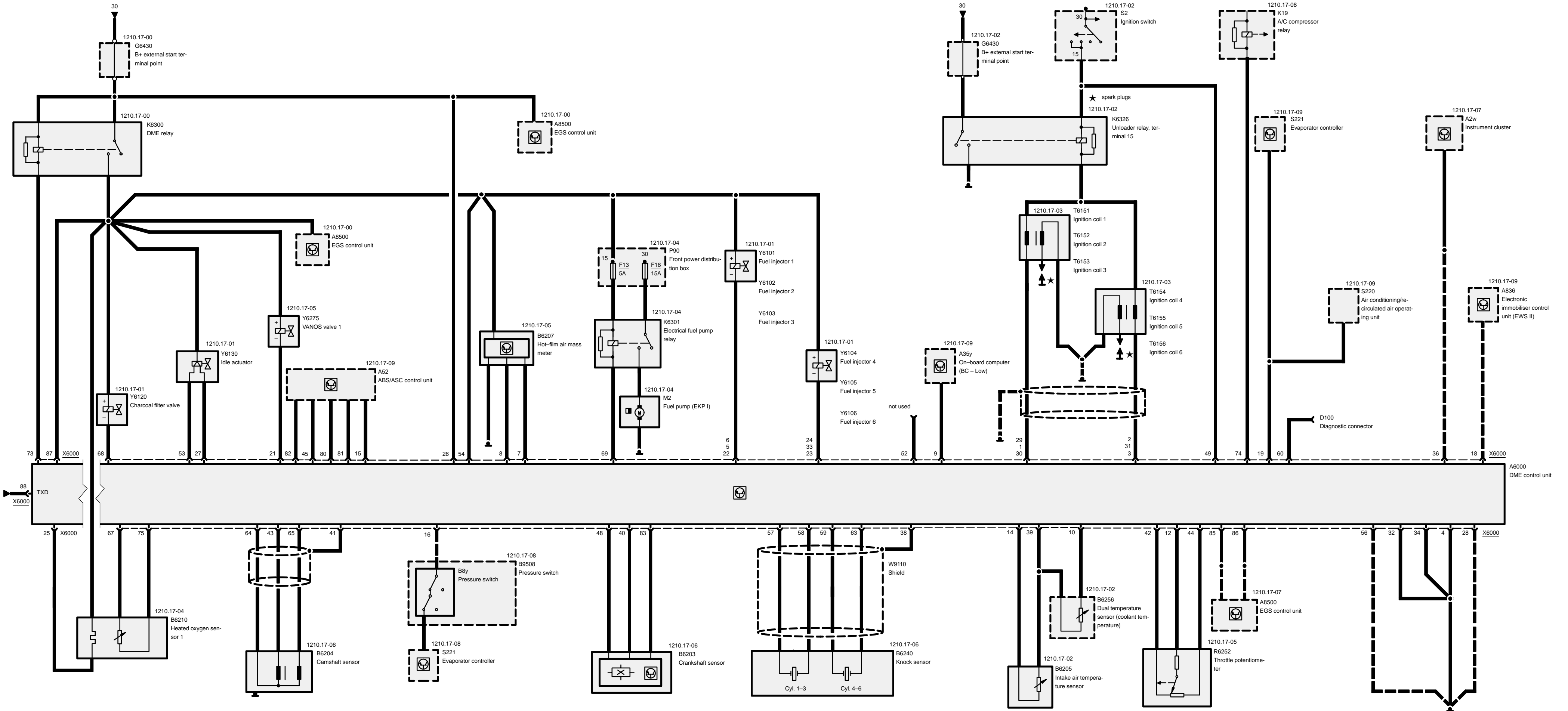
jumpers in end cap of diagnostic connector D100



Pin number	Terminal number	Terminal description	Wire colour
1	—	TD signal	SW
2	—	not used	
3	—	not used	
4	—	not used	
5	—	not used	
6	speedometer signal-output	speed signal	SW/WS**
7	SI	service interval indicator	WS/GN
8	—	compressor	SW/GR**
9	—	compressor delay	SW/BL**
10	—	auxiliary fan	SW/RT**
11	—	not used	
12	61(D+)	charge lamp	BL
13	—	not used	
14	30	battery +	RT
15	RXD	diagnosis-data line	WS/GE
16	15S	voltage at ignition ON	GN/WS
17	TXD II	diagnosis-data line (4-cylinder)	WS/VI
18	PGSP	programming line	WS/GN (GN/BL*)
19	31	ground	BR (BR/OR*)
20	TXD	diagnosis-data line	WS/VI

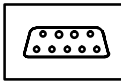
* 6-cylinder

** B32





Z3



Pin assignments

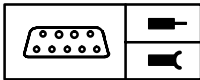
X6000

Pin	Type	Description/Function	Connection
1	A	Ignition, terminal 1	Ignition coil, cyl. 2
2	A	Ignition, terminal 1	Ignition coil, cyl. 4
3	A	Ignition, terminal 1	Ignition coil, cyl. 6
4	M	Ground	Ground connection
5	A	Injection valve, cyl. 2	Injection valve, cyl. 2
6	A	Injection valve, cyl. 1	Injection valve, cyl. 1
7	M	Ground, air mass meter	Air mass meter
8	E	Signal, air mass meter	Air mass meter
9	A	TI signal	On-board computer
10	E	Coolant temperature signal	Coolant temperature sensor
11		Not used	
12	E	Throttle signal	Throttle potentiometer
13		Not used	
14	E	Intake air temperature signal	Intake air temperature sensor
15	E	Wheel speed signal	ASC control unit
16	A	Air conditioning ON signal	Pressure switch
17		Not used	
18	E	Vehicle immobilization	Control unit, electronic vehicle immobilization (EWS II)
19	A	Auxiliary fan signal	A/C control unit
20		Not used	
21	A	Signal, camshaft control	VANOS valve 1
22	A	Injection valve, cyl. 3	Injection valve
23	A	Injection valve, cyl. 6	Injection valve
24	A	Injection valve, cyl. 4	Injection valve
25	M	Oxygen sensor heating	Oxygen sensor 1
26	E	Terminal 30	Jumper cable terminal point
27	A	Idle actuator signal	Idle actuator
28	M	Ground	Ground connection
29	A	Ignition, terminal 1	Ignition coil, cyl. 1
30	A	Ignition, terminal 1	Ignition coil, cyl. 3
31	A	Ignition, terminal 1	Ignition coil, cyl. 5
32	M	Ground	Ground connection

E = Input, A = Output, M = Ground



Z3

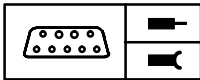
**Pin assignments**

Pin	Type	Description/Function	Connection
33	A	Injection valve, cyl. 5	Injection valve
34	M	Ground	Ground connection
35		Not used	
36	A	Engine speed signal TD	Instrument cluster
37		Not used	
38	M	Ground, shielding	Shield, knock sensor
39	M	Component ground	Temperature sensor
40	M	Ground	Crankshaft sensor
41	M	Ground, shielding	Shield, camshaft sensor
42	A	Signal (-)	Throttle potentiometer
43	E	Signal (-)	Camshaft sensor
44	A	Signal (+)	Throttle potentiometer
45	A	ASC signal, DKG	ASC control unit
46		Not used	
47		Not used	
48	A	Signal (+), 5V	Crankshaft sensor
49	E	Terminal 15	Ignition lock
50		Not used	
51		Not used	
52	A	Exhaust flap signal	Not used
53	A	Idle actuator signal	Idle actuator
54	E	>10V signal	DME main relay
55		Not used	
56	E	Ignition feedback signal	Resistor
57	A	Signal, knock sensor cyl. 1 – 3	Knock sensor
58	E	Signal, knock sensor cyl. 1 – 3	Knock sensor
59	A	Signal, knock sensor cyl. 4 – 6	Knock sensor
60	E	Programming voltage	Diagnostic connector
61		Not used	
62		Not used	
63	E	Signal, knock sensor cyl. 4 – 6	Knock sensor
64	M	Component ground	Camshaft sensor
65	A	Signal (+)	Camshaft sensor
66		Not used	
67	M	Oxygen sensor ground	Oxygen sensor

E = Input, A = Output, M = Ground



Z3

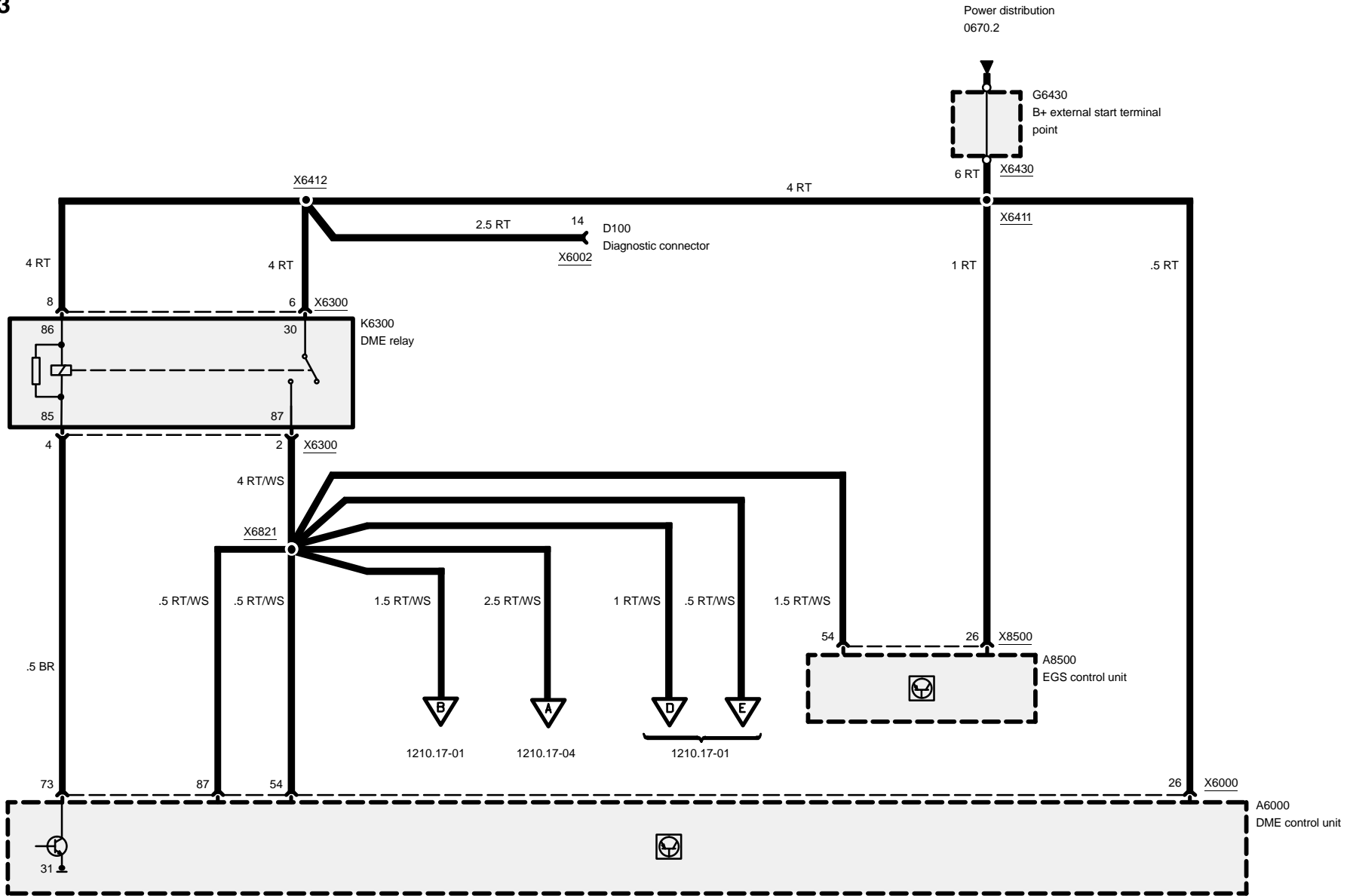
**Pin assignments**

Pin	Type	Description/Function	Connection
68	A	Fuel tank ventilation valve	Fuel tank ventilation valve
69	A	Relay activation	Fuel pump relay
70		Not used	
71		Not used	
72		Not used	
73	A	Relay activation	DME relay
74	E	Compressor ON signal	Relay, A/C compressor
75	E	Signal, oxygen sensor	Oxygen sensor
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80	A	ASC signal, ZA	ASC control unit
81	A	ASC signal, ZWV	ASC control unit
82	A	ASC signal, MSR	ASC control unit
83	E	Crankshaft signal	Crankshaft sensor
84		Not used	
85	E/A	CAN-LOW	EGS control unit
86	E/A	CAN-HIGH	EGS control unit
87	E	Terminal 15	DME relay
88	E/A	TxD diagnostic data link	Diagnostic connector

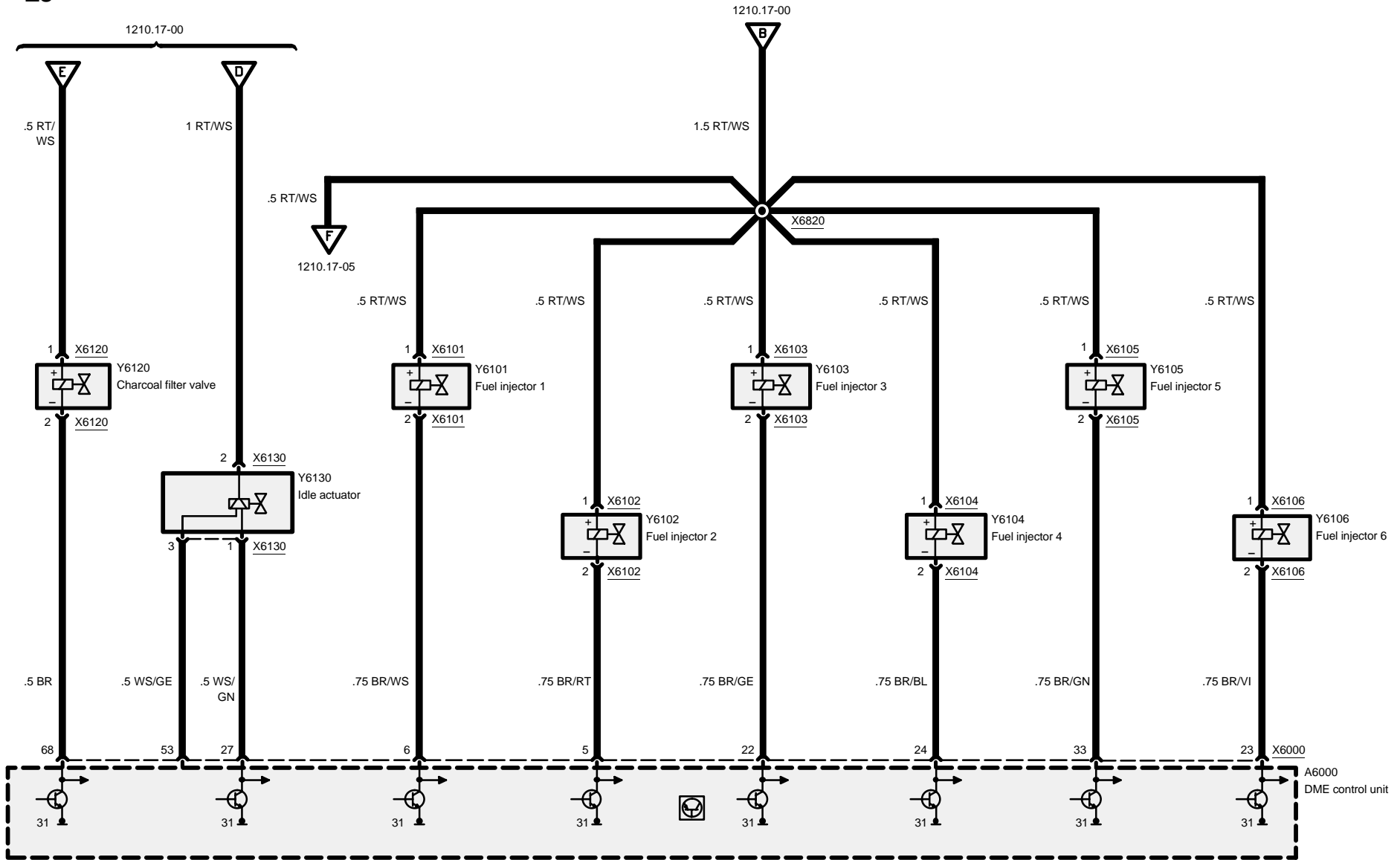


Engine management MS41.0 (6-cylinder M52)

Current



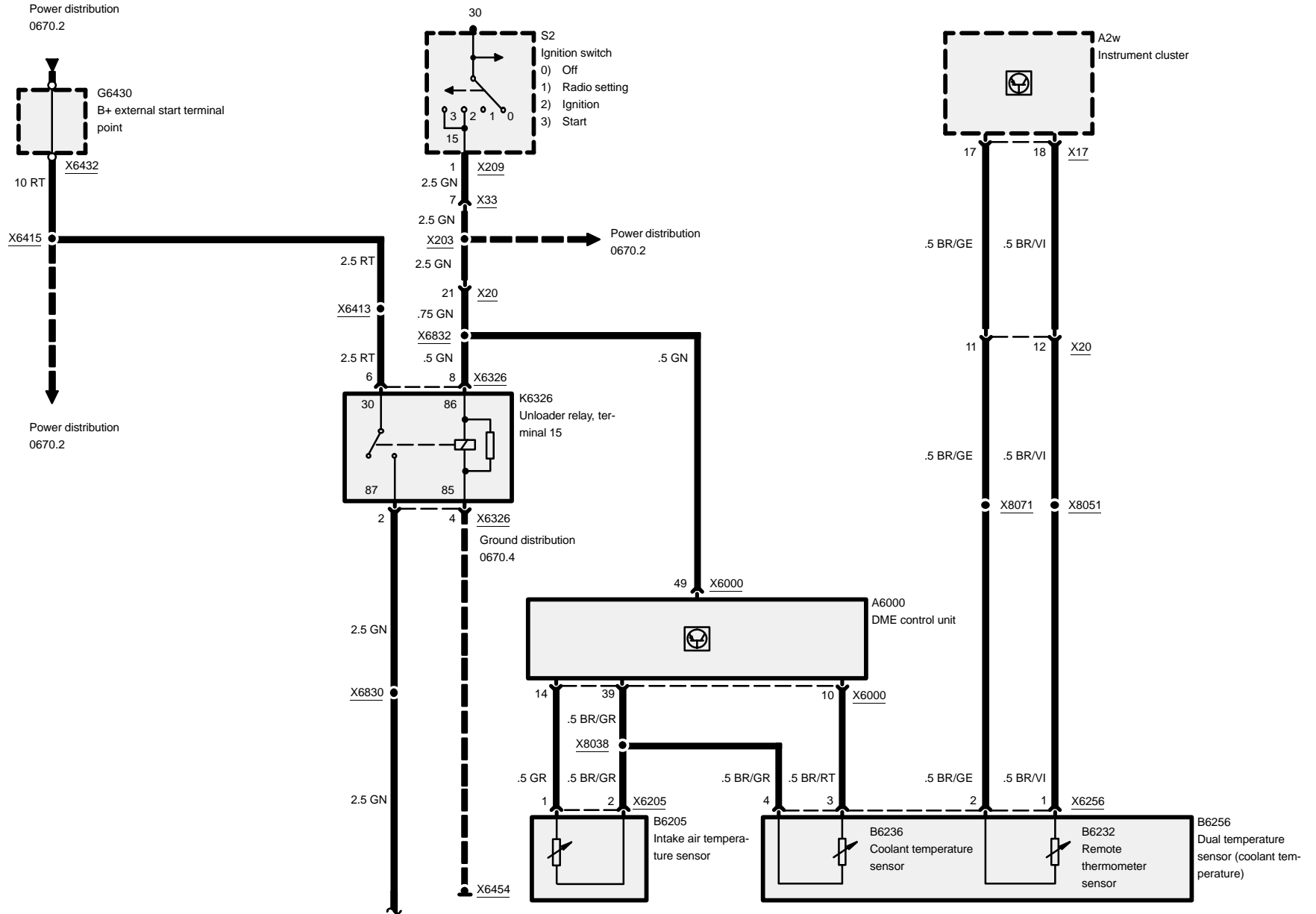
Engine management MS41.0 (6-cylinder M52)

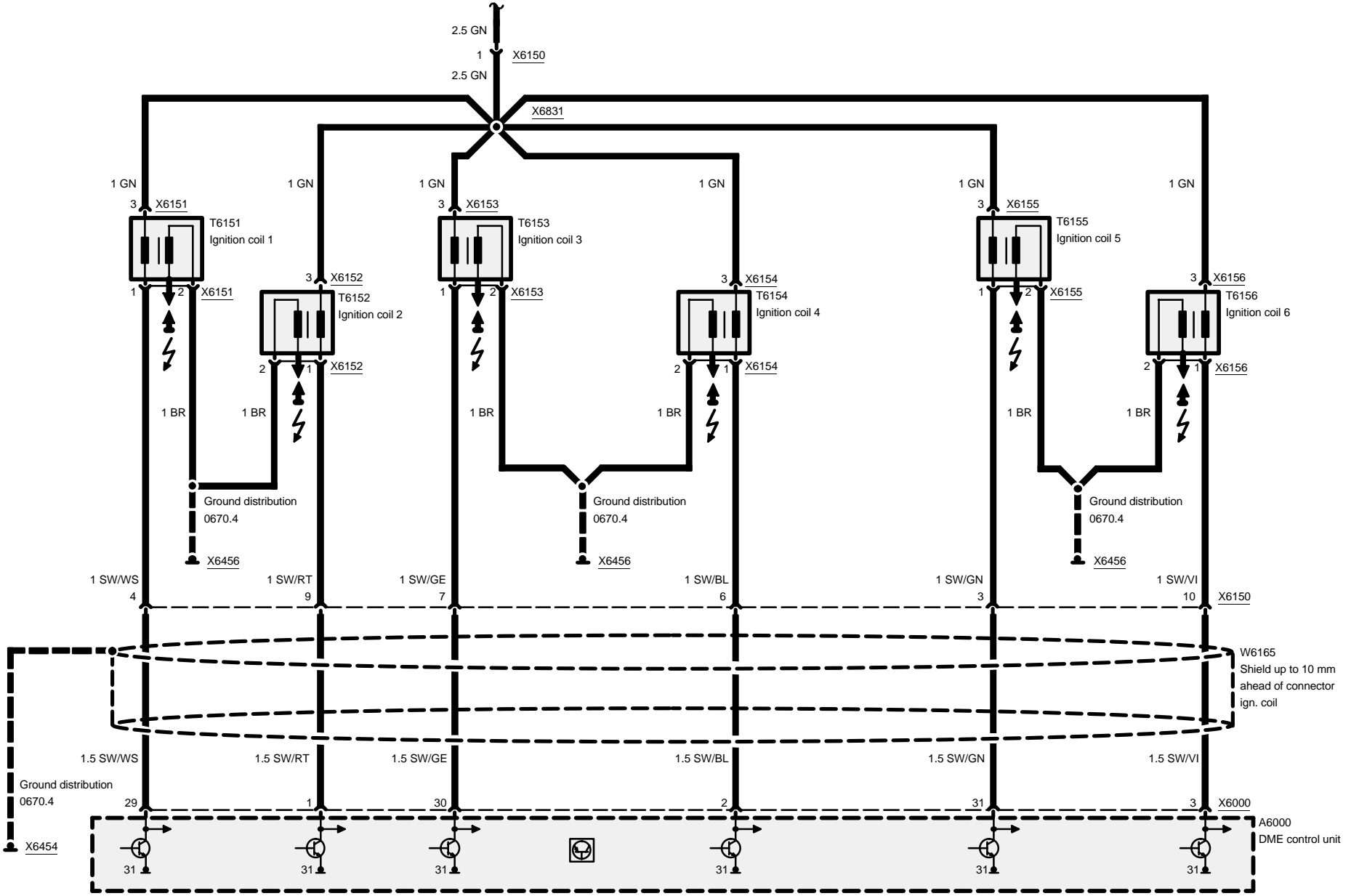




Z3

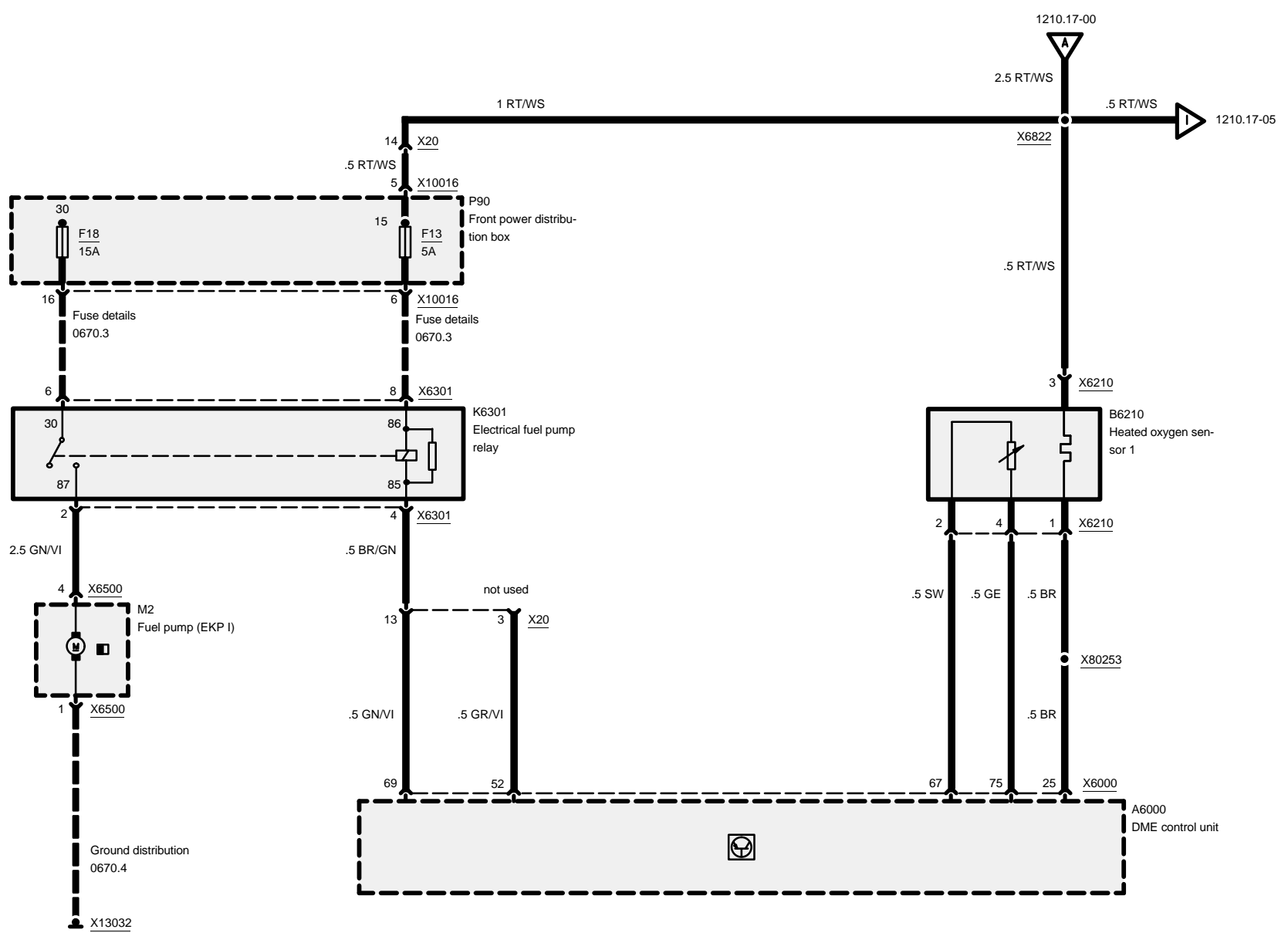
Engine management MS41.0 (6-cylinder M52)





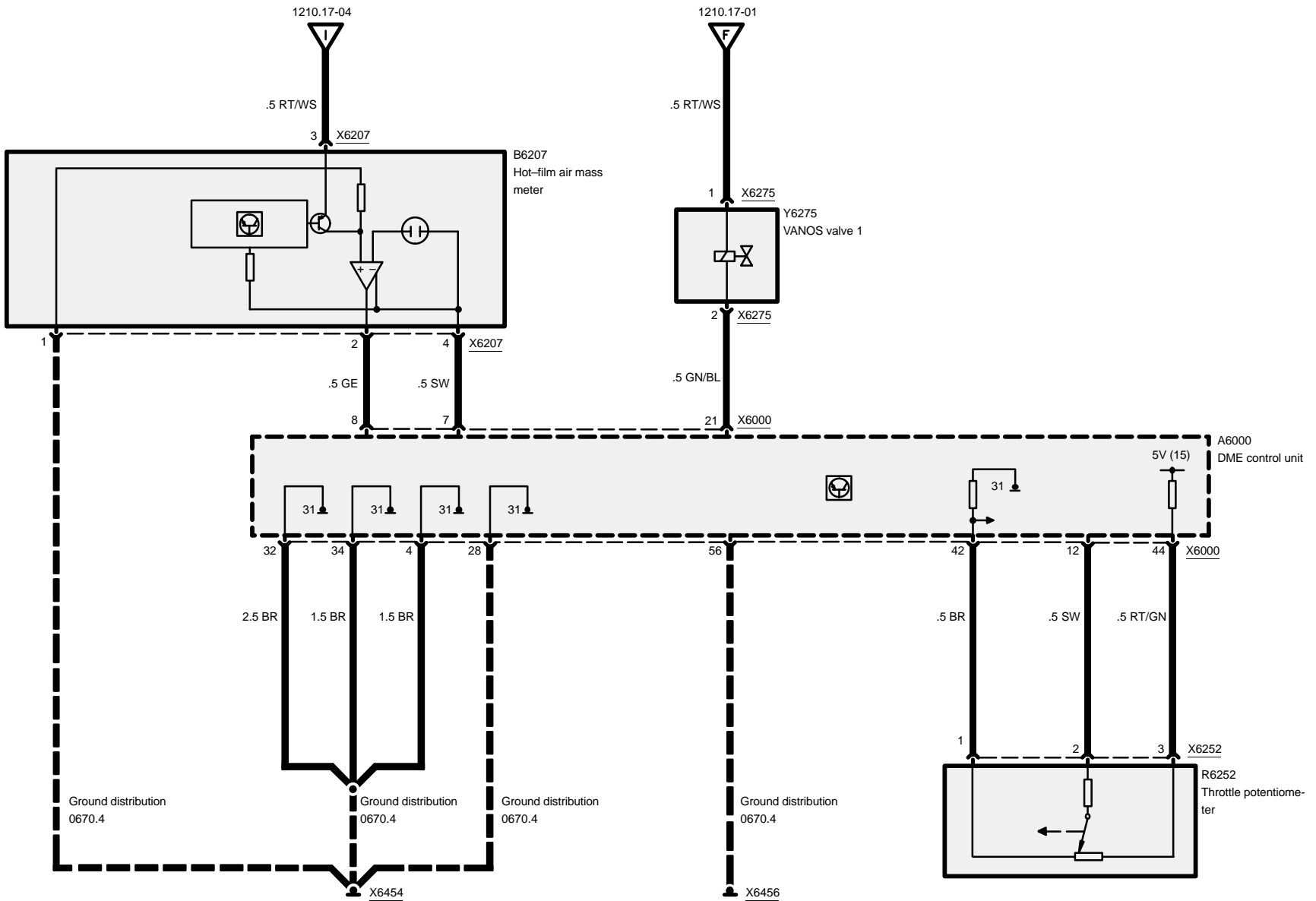


Engine management MS41.0 (6-cylinder M52)

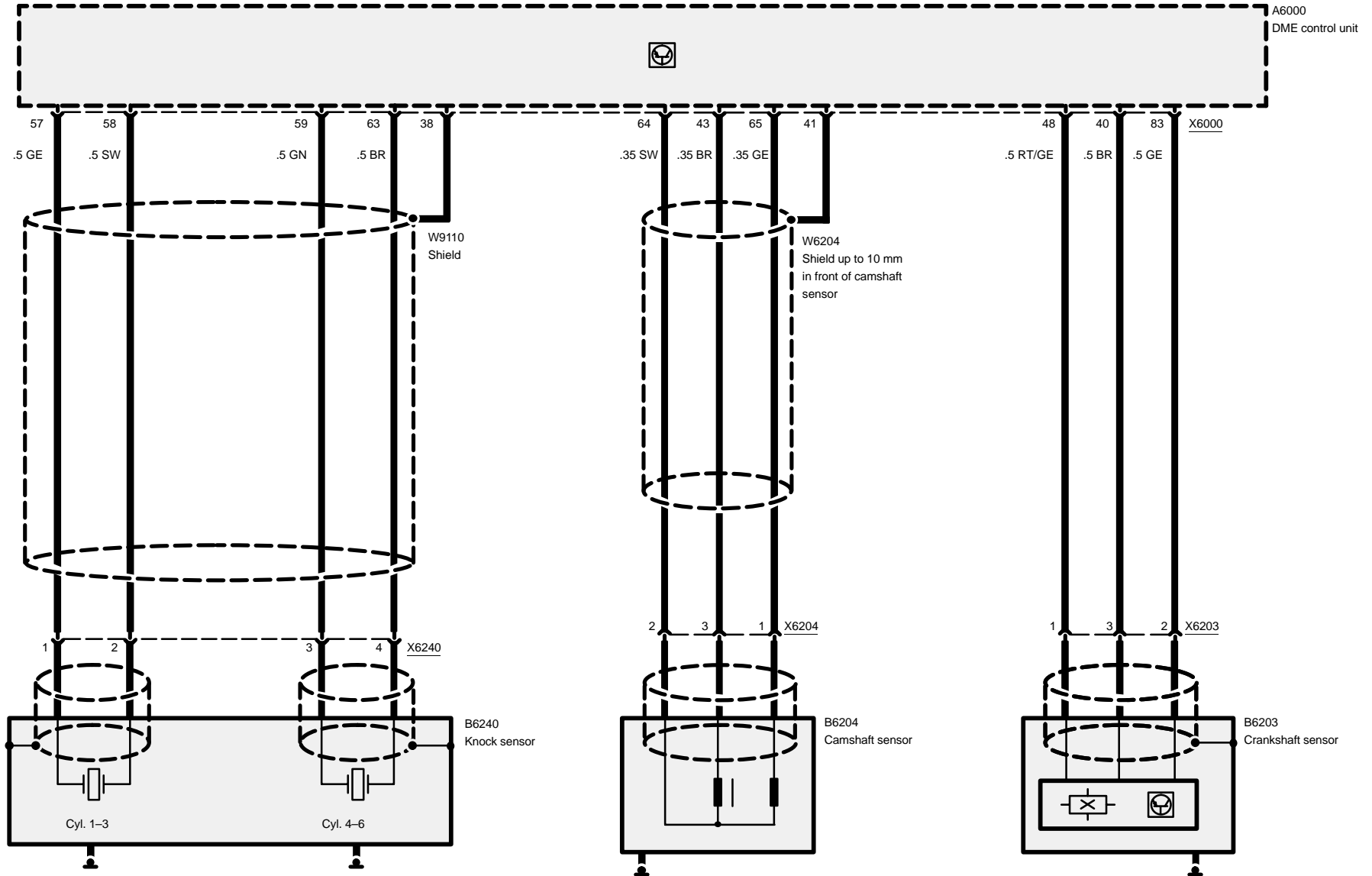


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Engine management MS41.0 (6-cylinder M52)



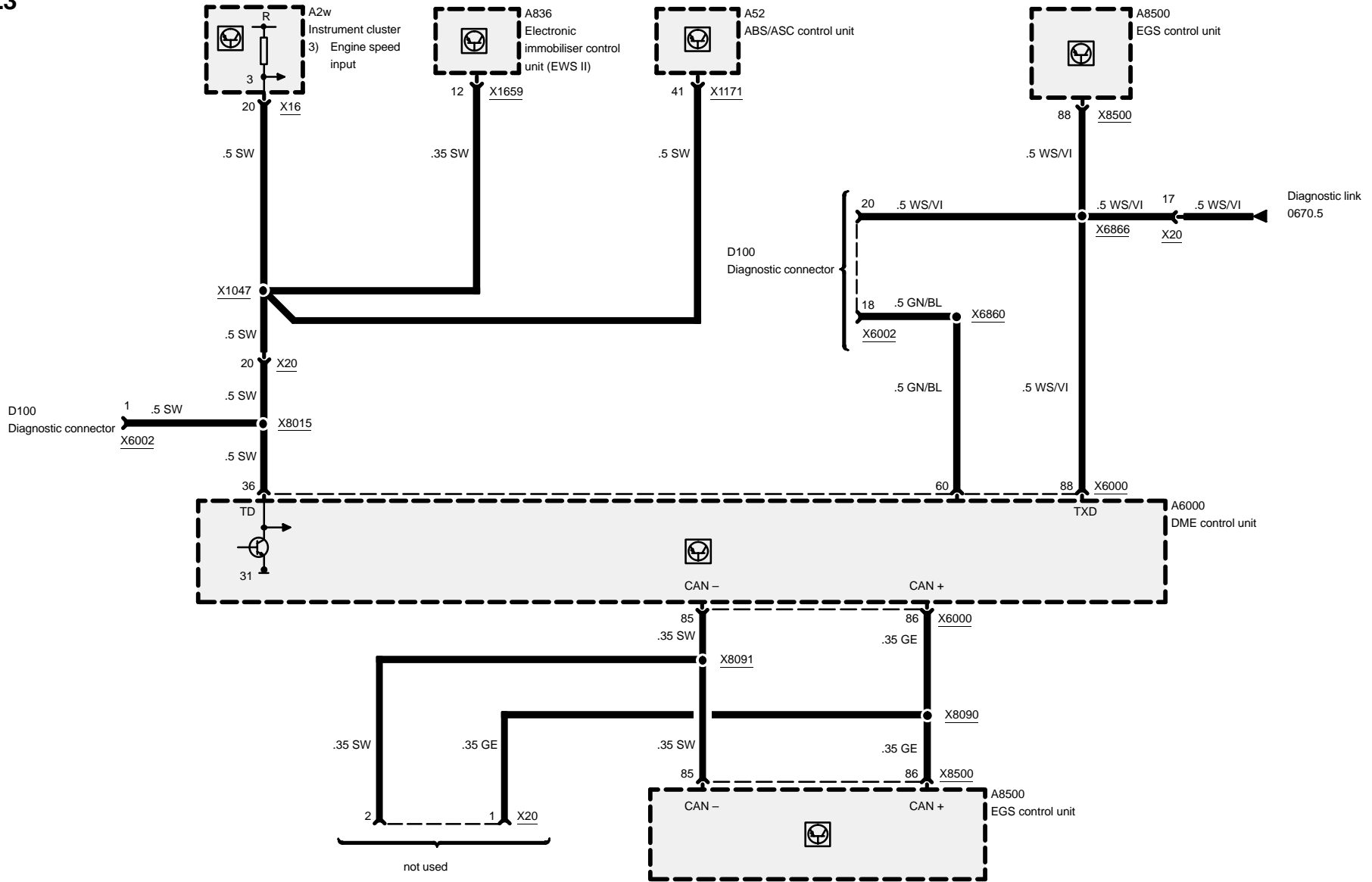
Engine management MS41.0 (6-cylinder M52)





Z3

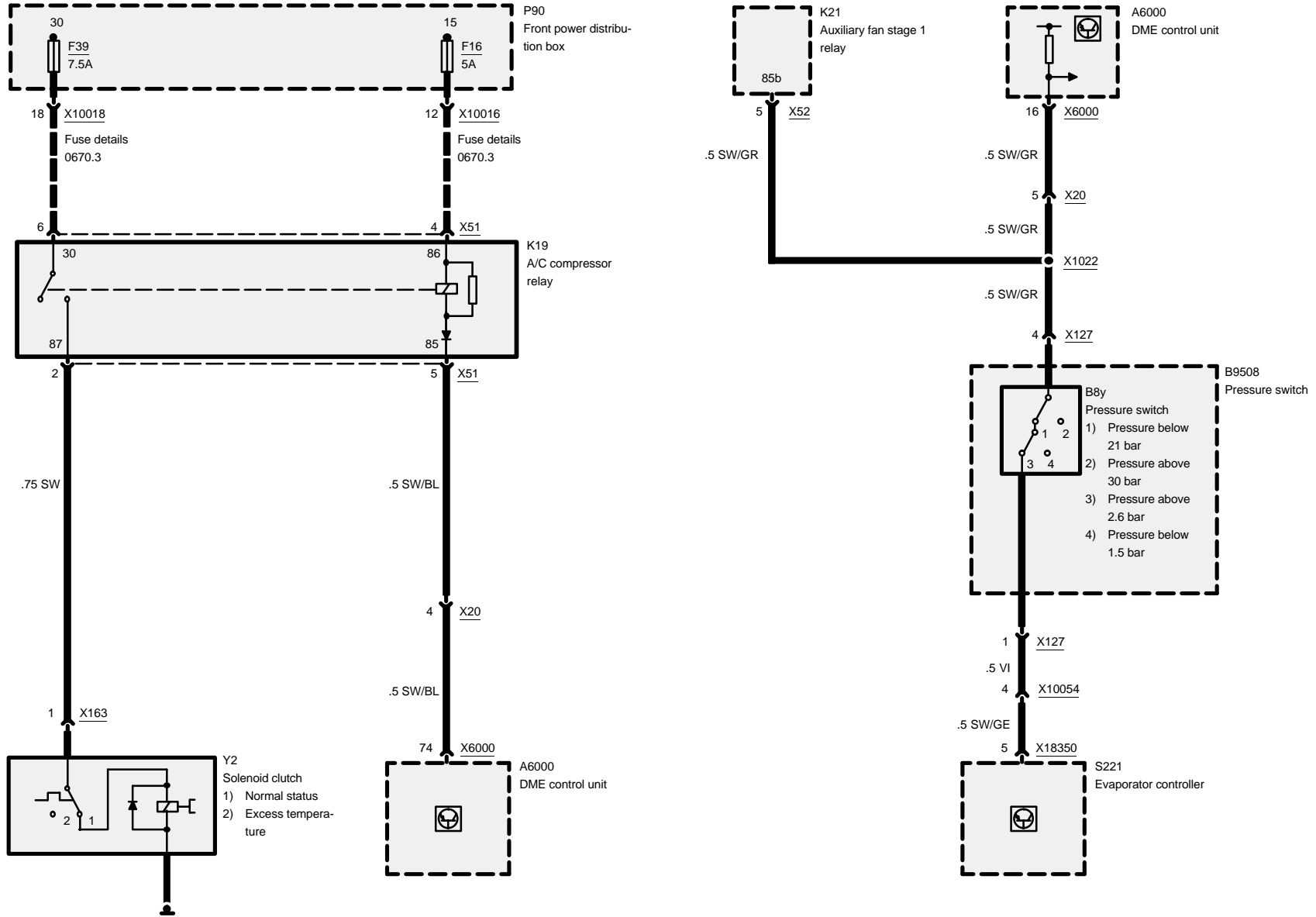
Engine management MS41.0 (6-cylinder M52)





Engine management MS41.0 (6-cylinder M52)

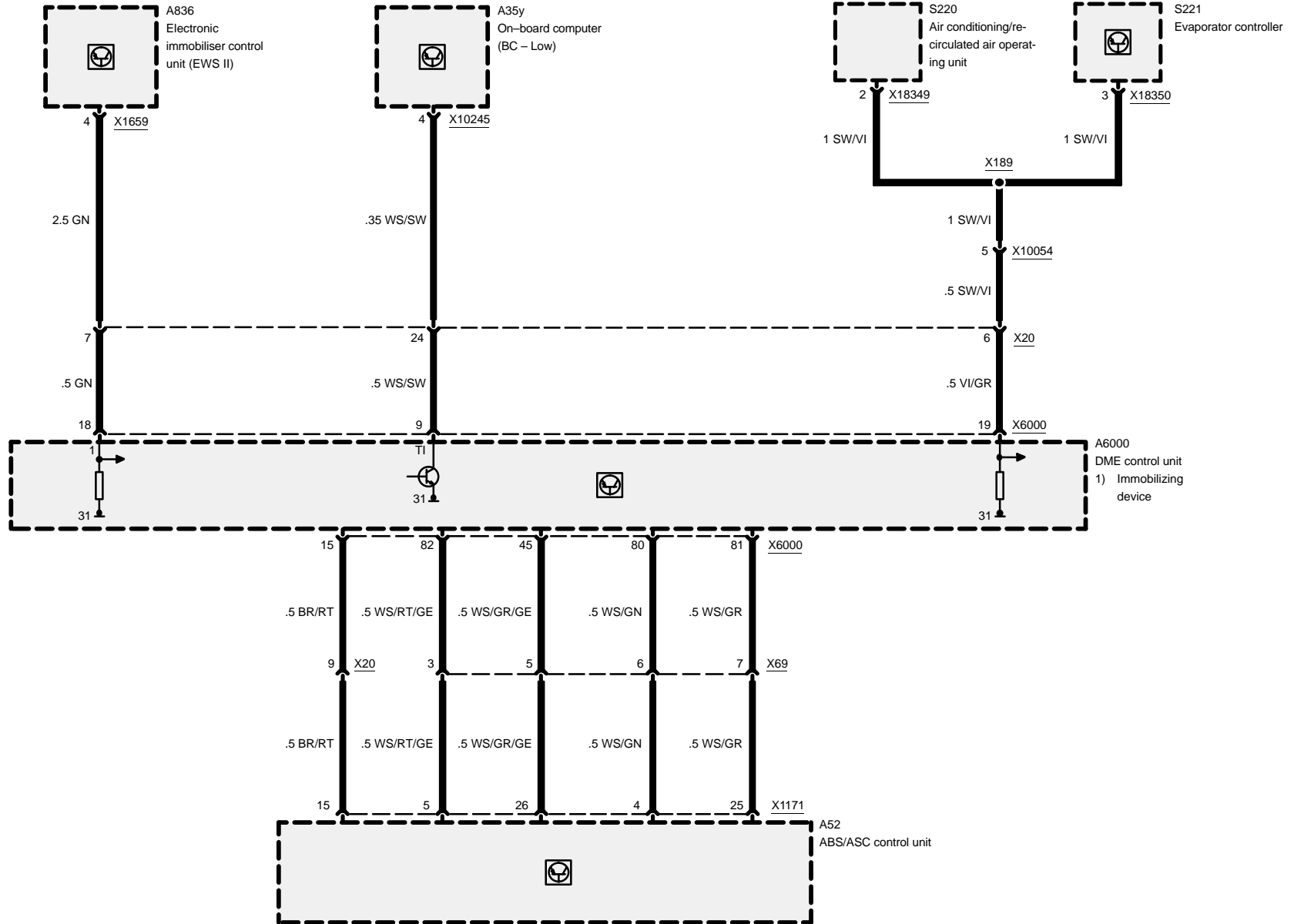
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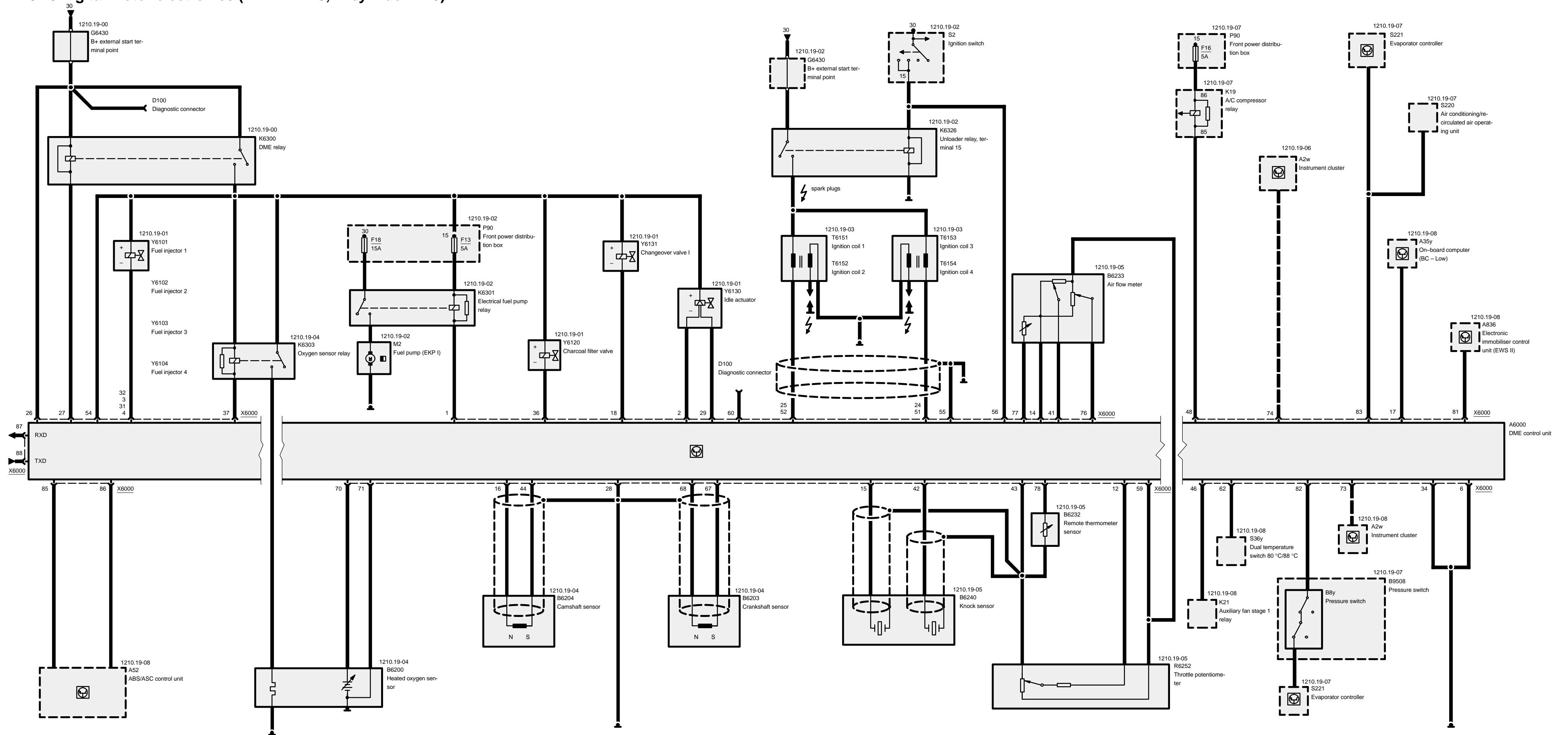




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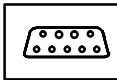
Engine management MS41.0 (6-cylinder M52)







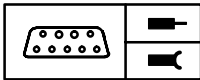
Z3

**Pin assignments****X6000**

Pin	Type	Description/Function	Connection
1	A	Electric fuel pump relay	Electric fuel pump relay
2	A	Idle actuator signal	Idle actuator
3	A	Injection signal	Injection valve, cyl. 2
4	A	Injection signal	Injection valve, cyl. 4
5		Not used	
6	M	Ground, injector output stages	Ground connection
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12	E	Throttle valve position	Throttle potentiometer
13		Not used	
14	M	Component ground	Air flow rate sensor
15	E	Signal, knock sensor cyl. 1 and 2	Knock sensor
16	M	Component ground	Camshaft sensor
17	A	Fuel consumption signal (TI signal)	On-board computer
18	A	Changeover valve 1	Changeover valve
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24	A	Ignition signal cyl. 3, terminal 1	Ignition coil 3
25	A	Ignition signal cyl. 1, terminal 1	Ignition coil 1
26	E	Permanent positive, terminal 30	Jumper cable terminal point
27	A	Activation, DME main relay	Terminal 85, DME main relay
28	M	Ground for electronics and sensor shielding	Ground connection
29	A	Idle actuator signal	Idle actuator
30		Not used	
31	A	Injection signal	Injection valve, cyl. 3
32	A	Injection signal	Injection valve, cyl. 1
33		Not used	

E = Input, A = Output, M = Ground

Z3

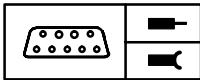


Pin assignments

Pin	Type	Description/Function	Connection
34	M	Ground for remaining output stages (except ignition and injection valves)	Ground connection
35		Not used	
36	A	Fuel tank ventilation valve	Fuel tank ventilation valve
37	A	Activation, oxygen sensor relay	Oxygen sensor relay
38		Not used	
39		Not used	
40		Not used	
41	E	Signal, air flow rate sensor	Air flow rate sensor
42	E	Signal, knock sensor cyl. 3 and 4	Knock sensor
43	M	Sensor ground	Water-temperature sensor, throttle potentiometer and cover for knock sensors
44	E	Camshaft signal	Camshaft sensor
45		Not used	
46	A	Relay activation	Auxiliary fan relay, stage 1
47		Not used	
48	A	A/C compressor shutdown	Air conditioner compressor relay
49		Not used	
50		Not used	
51	A	Ignition signal cyl. 4, terminal 1	Ignition coil 4
52	A	Ignition signal cyl. 2, terminal 1	Ignition coil 2
53		Not used	
54	E	B+ voltage	DME main relay
55	M	Ground, ignition	Ground connection
56	E	Ignition, terminal 15	Ignition lock
57		Not used	
58		Not used	
59	A	5V component supply	Throttle potentiometer
60	E	Programming voltage	Diagnostic connector
61		Not used	
62	E	Signal, water temperature above 80°C	Dual temperature switch
63		Not used	
64		Not used	
65		Not used	
66		Not used	

E = Input, A = Output, M = Ground

Z3



Pin assignments

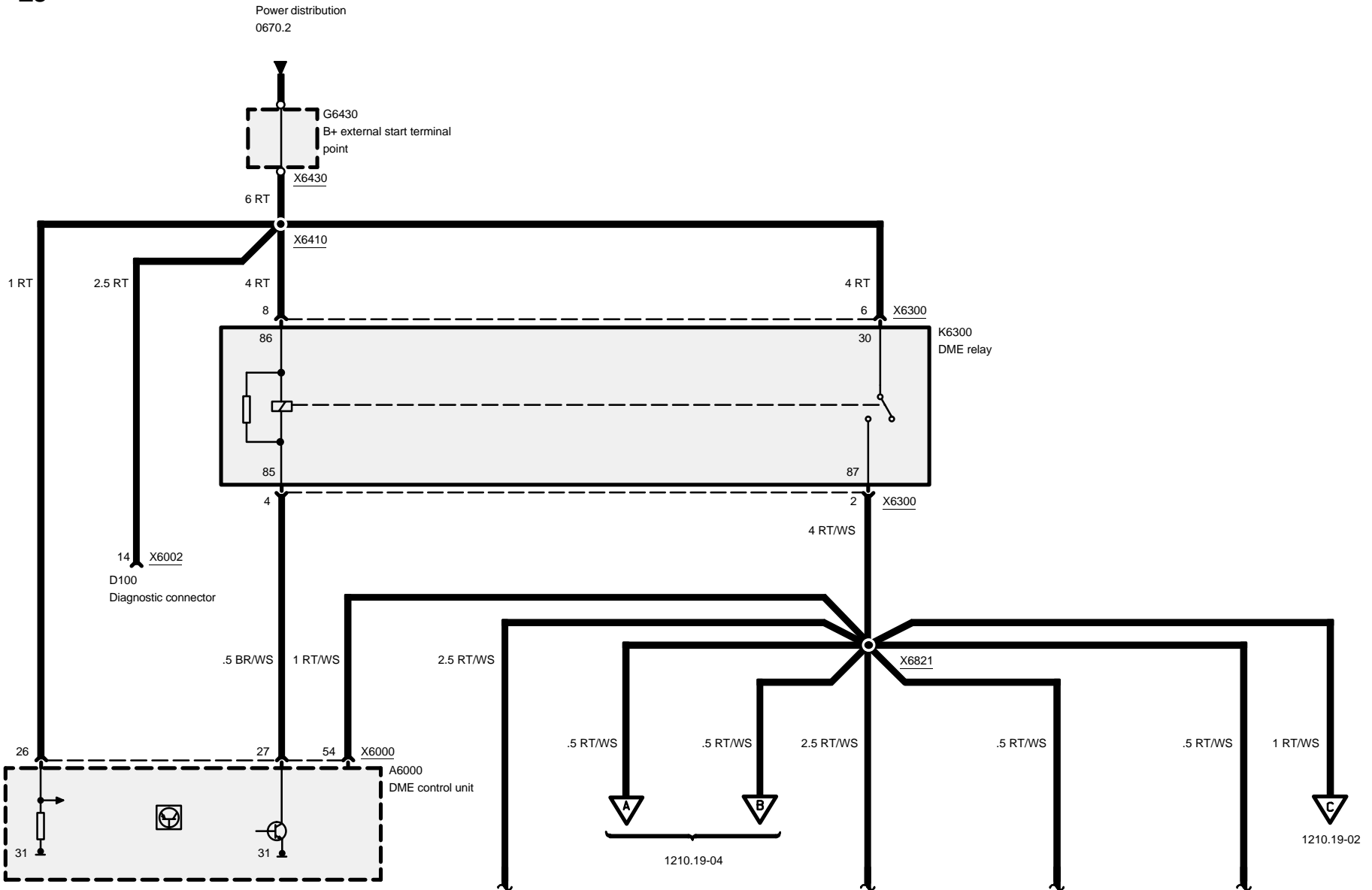
Pin	Type	Description/Function	Connection
67	E	Crankshaft signal	Crankshaft sensor
68	M	Component ground	Crankshaft sensor
69		Not used	
70	E	Signal, oxygen sensor	Oxygen sensor
71	M	Component ground	Oxygen sensor
72		Not used	
73	E	Vehicle speed signal	Instrument cluster
74	A	TD signal	Instrument cluster
75		Not used	
76	E	Idle CO potentiometer	Air flow rate sensor
77	E	Intake air temperature sensor	Air flow rate sensor
78	E	Engine temperature sensor	Water temperature sensor
79		Not used	
80		Not used	
81	E	Vehicle immobilization	Control unit, electronic vehicle immobilization (EWS II)
82	E	Switch for A/C compressor	Pressure switch
83	E	Air conditioning ON signal	A/C control unit
84		Not used	
85	E/A	CAN-LOW	ASC control unit
86	E/A	CAN-HIGH	ASC control unit
87	A	RxD diagnostic link	Diagnostic connector
88	E/A	TxD diagnostic link	Diagnostic connector

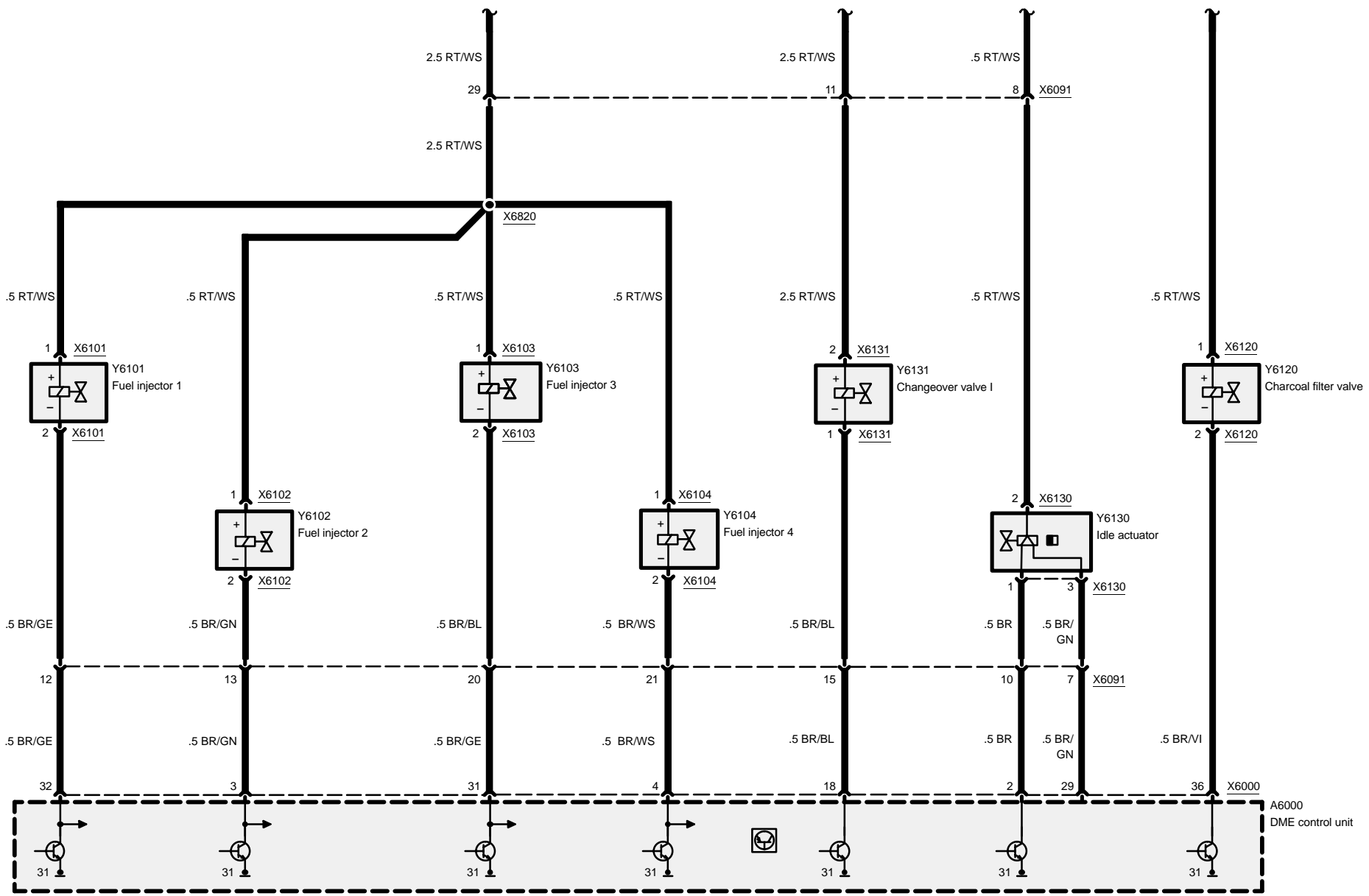
E = Input, A = Output, M = Ground



Digital motor electronics (DME M1.7.3, 4-cylinder M43)

Current, injector valves

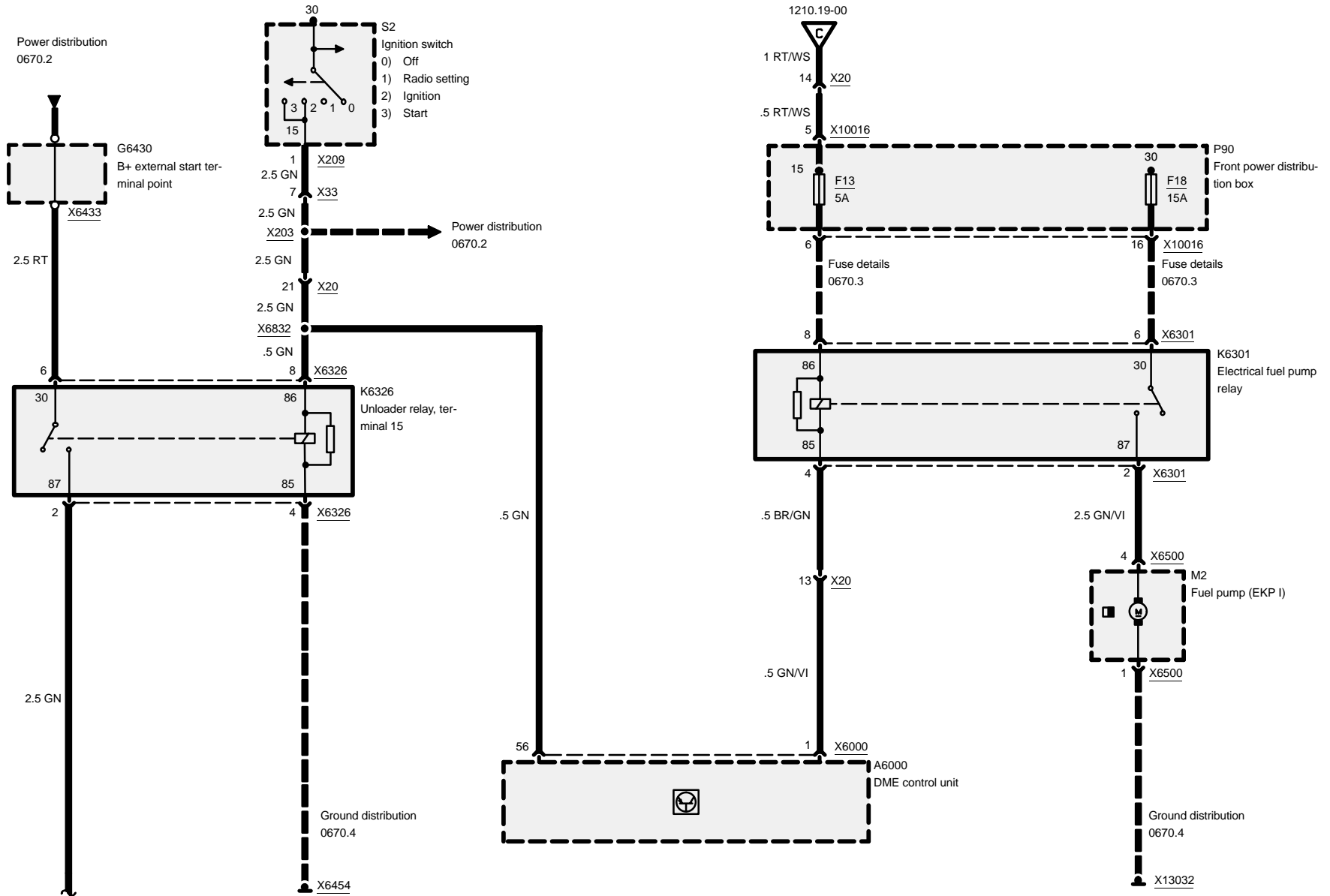


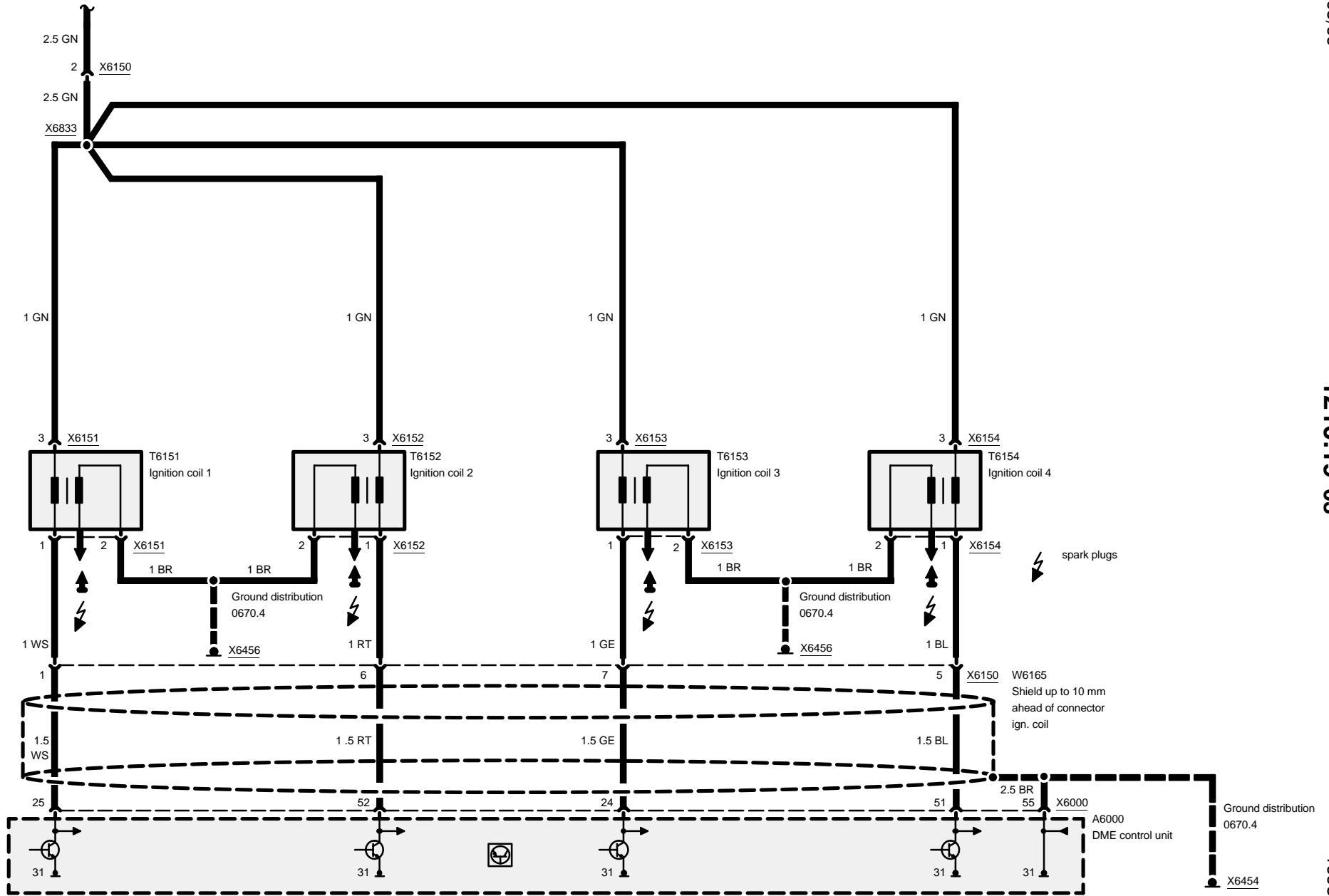




Digital motor electronics (DME M1.7.3, 4-cylinder M43)

Ignition coils and fuel pump





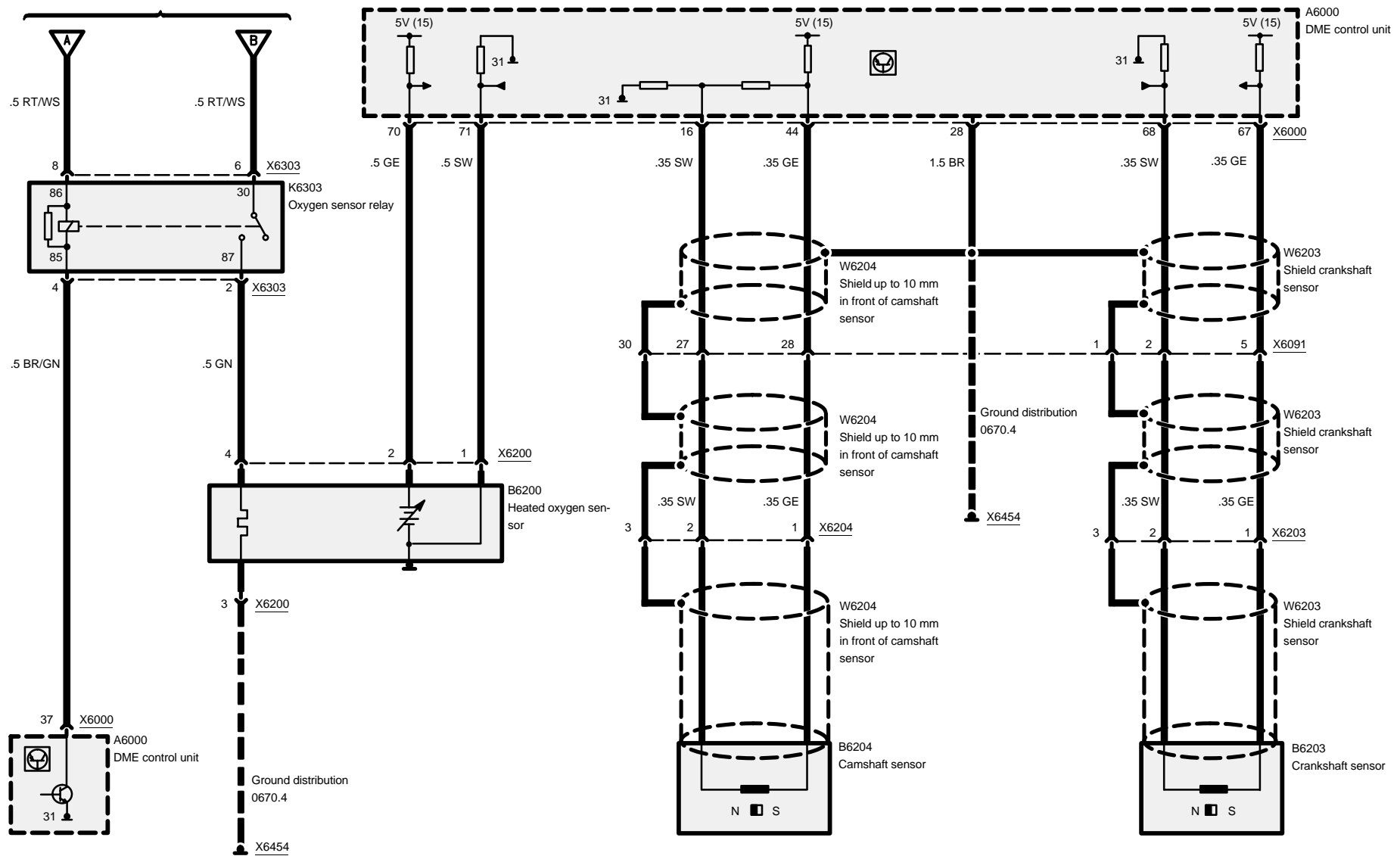


Digital motor electronics (DME M1.7.3, 4-cylinder M43)

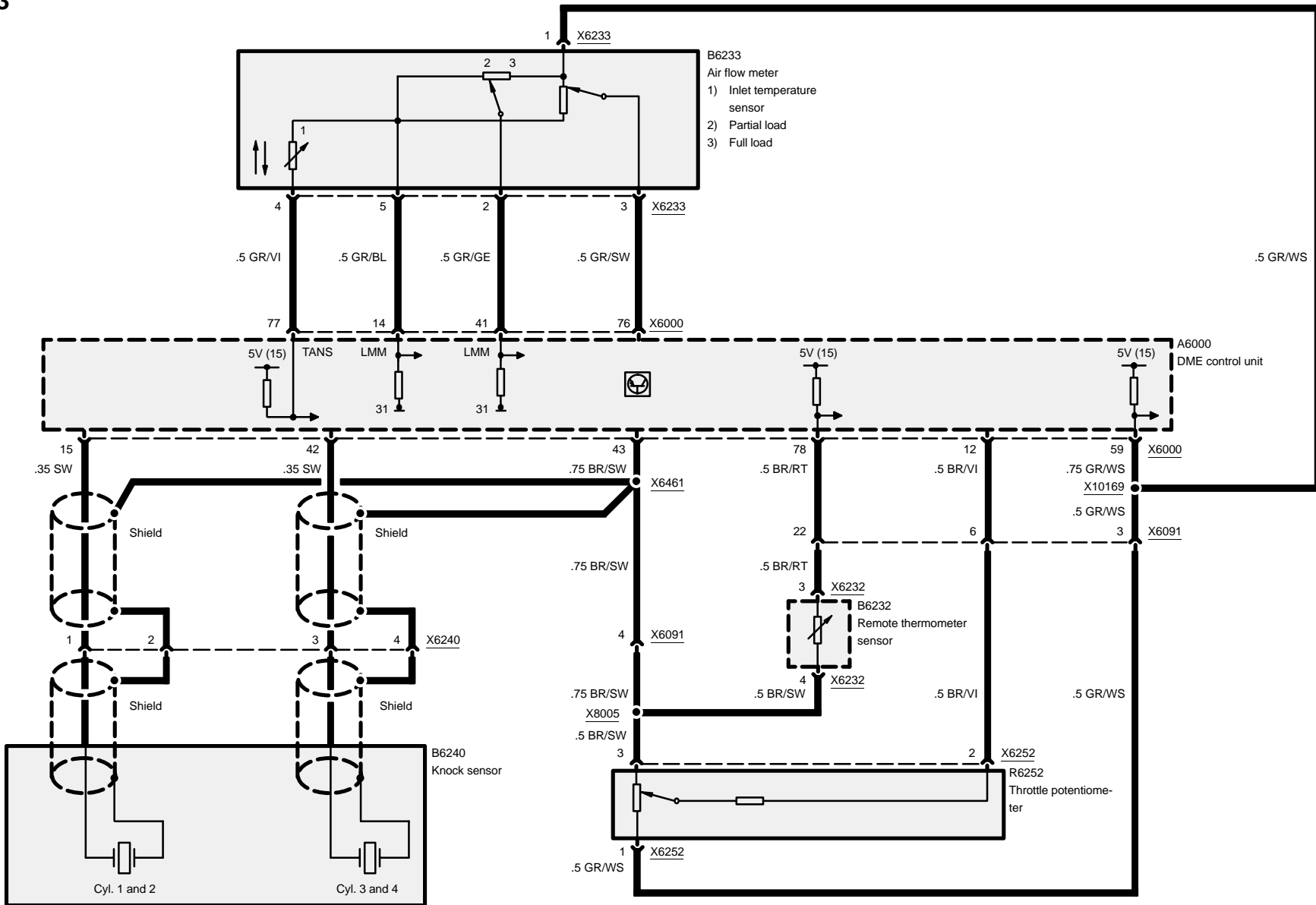
Oxygen sensor, shaft sensor

Z3

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Digital motor electronics (DME M1.7.3, 4-cylinder M43)

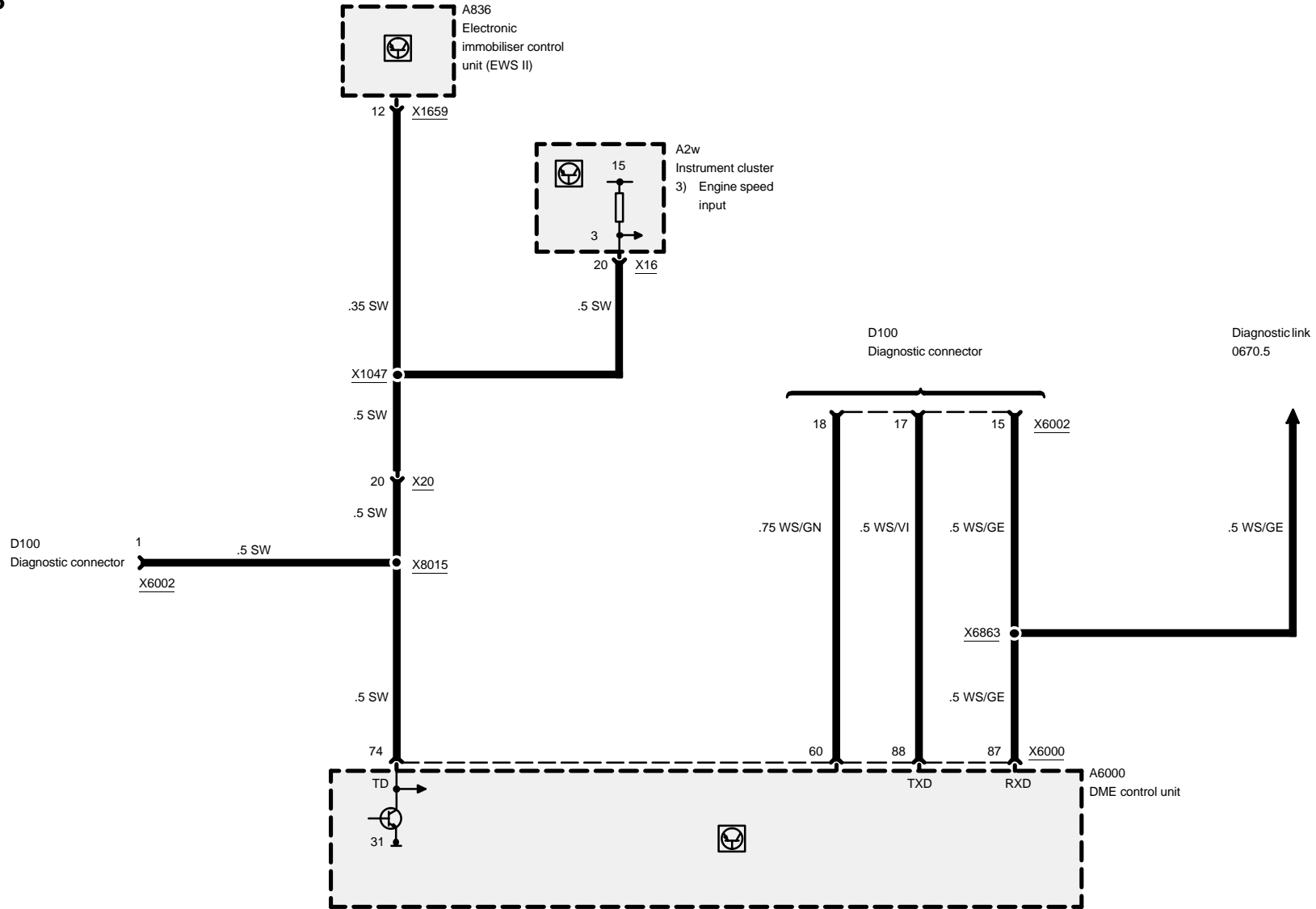




Digital motor electronics (DME M1.7.3, 4-cylinder M43)

Diagnostic link

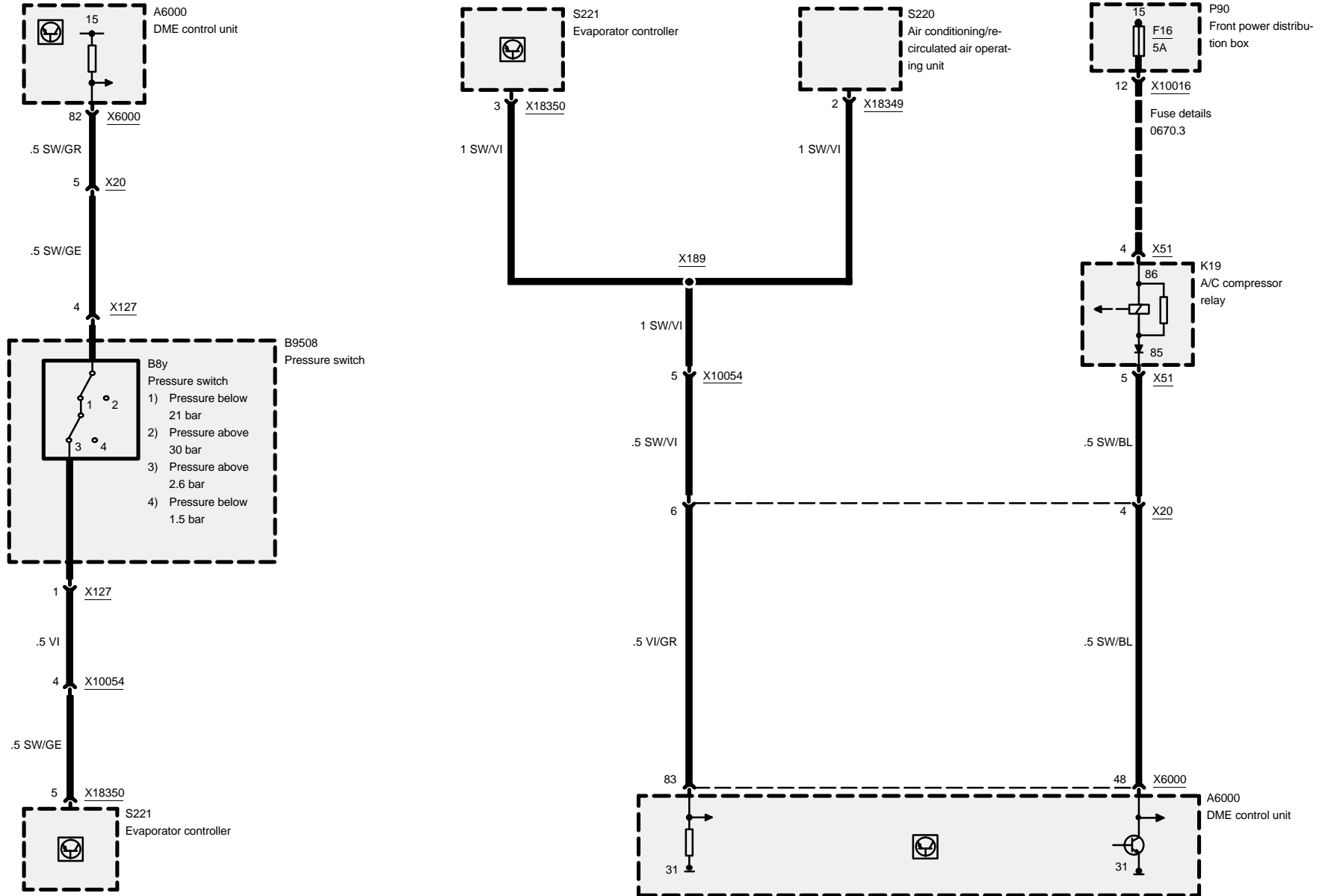
Z3





Z3

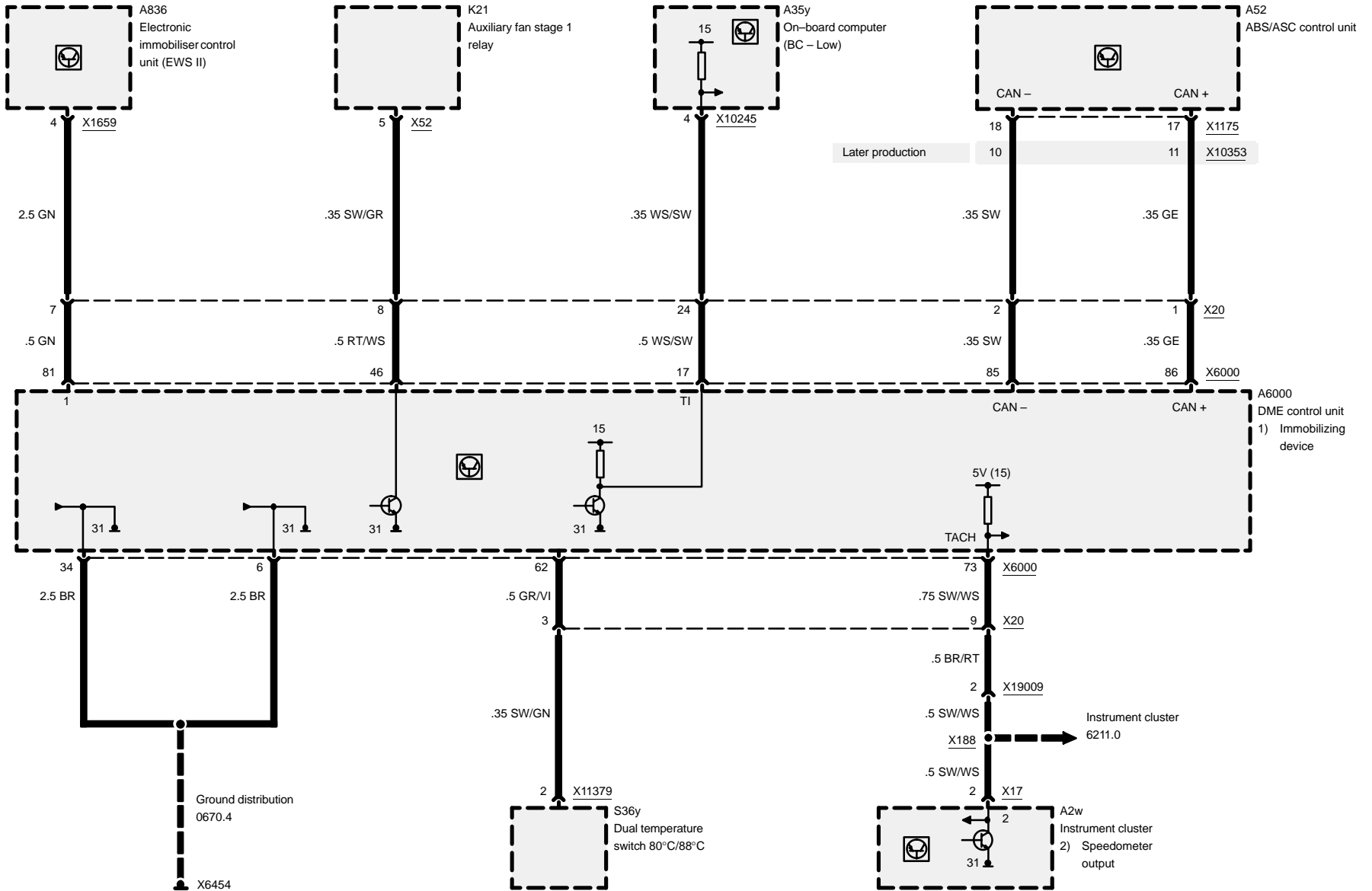
Digital motor electronics (DME M1.7.3, 4-cylinder M43)

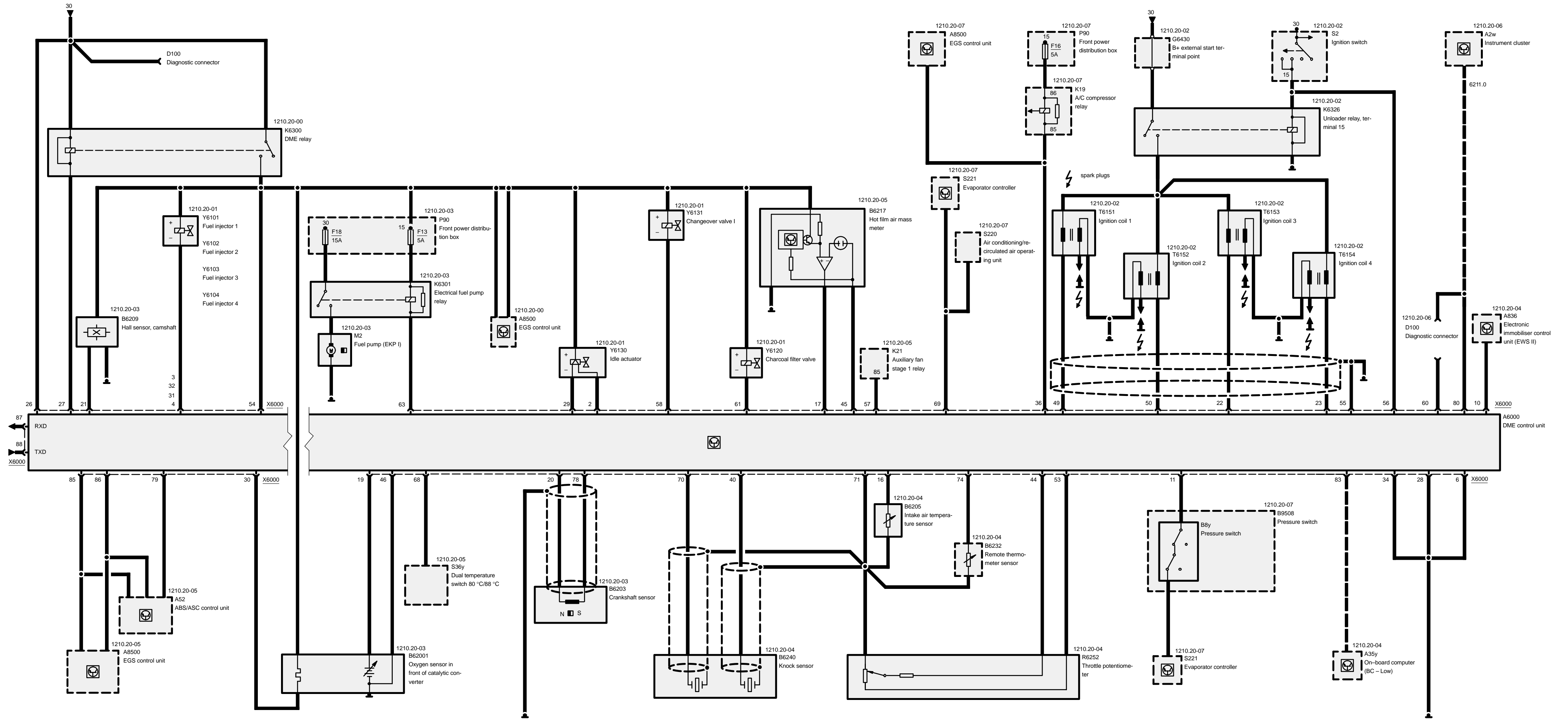




Digital motor electronics (DME M1.7.3, 4-cylinder M43)

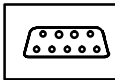
Z3







Z3

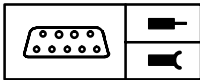
**Pin assignments****X6000**

Pin	Type	Description/Function	Connection
1		Not used	
2	A	Idle actuator signal	Idle actuator
3	A	Injection signal	Injection valve, cyl. 1
4	A	Injection signal	Injection valve, cyl. 4
5		Not used	
6	M	Ground, injector output stages	Ground connection
7		Not used	
8		Not used	
9		Not used	
10	E	Vehicle immobilization	Control unit, electronic vehicle immobilization (EWS II)
11	E	Air conditioning signal	Pressure switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16	E	Temperature signal	Intake air temperature sensor
17	E	Signal input	Hot-film air mass meter
18		Not used	
19	E	Oxygen sensor signal	Oxygen sensor
20	M	Component ground	Crankshaft sensor
21	E	Camshaft signal	Camshaft Hall generator
22	A	Ignition signal, terminal 1	Ignition coil 3
23	A	Ignition signal, terminal 1	Ignition coil 4
24		Not used	
25		Not used	
26	E	Permanent positive, terminal 30	Jumper cable terminal point
27	A	Activation, DME main relay	Terminal 85, DME main relay
28	M	Ground for electronics and sensor shielding	Ground connection
29	A	Idle actuator signal	Idle actuator
30	M	Component ground	Oxygen sensor heating
31	A	Injection signal	Injection valve, cyl. 3

E = Input, A = Output, M = Ground



Z3

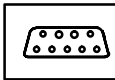
**Pin assignments**

Pin	Type	Description/Function	Connection
32	A	Injection signal	Injection valve, cyl. 2
33		Not used	
34	M	Ground for remaining output stages (except ignition and injection valves)	Ground connection
35		Not used	
36	A	Air conditioning ON signal	Relay, A/C compressor
37		Not used	
38		Not used	
39		Not used	
40	E	Signal, knock sensor cyl. 3 and 4	Knock sensor
41		Not used	
42		Not used	
43		Not used	
44	E	Throttle valve position	Throttle potentiometer
45	M	Component ground	Hot-film air mass meter
46	E	Oxygen sensor signal (-)	Oxygen sensor
47		Not used	
48		Not used	
49	A	Ignition signal, terminal 1	Ignition coil 1
50	A	Ignition signal, terminal 1	Ignition coil 2
51		Not used	
52		Not used	
53	A	5V component supply	Throttle potentiometer
54	E	B+ voltage	DME main relay
55	M	Ground, ignition	Ground connection
56	E	Ignition, terminal 15	Ignition lock
57	A	Auxiliary fan ON actuation	Auxiliary fan relay, stage 1
58	A	Changeover valve signal	Changeover valve 1
59		Not used	
60	E	Programming voltage	Diagnostic connector
61	A	Signal, fuel tank ventilation	Fuel tank ventilation valve
62		Not used	
63	A	Relay activation, terminal 85	Electric fuel pump relay
64		Not used	
65		Not used	

E = Input, A = Output, M = Ground



Z3

**Pin assignments**

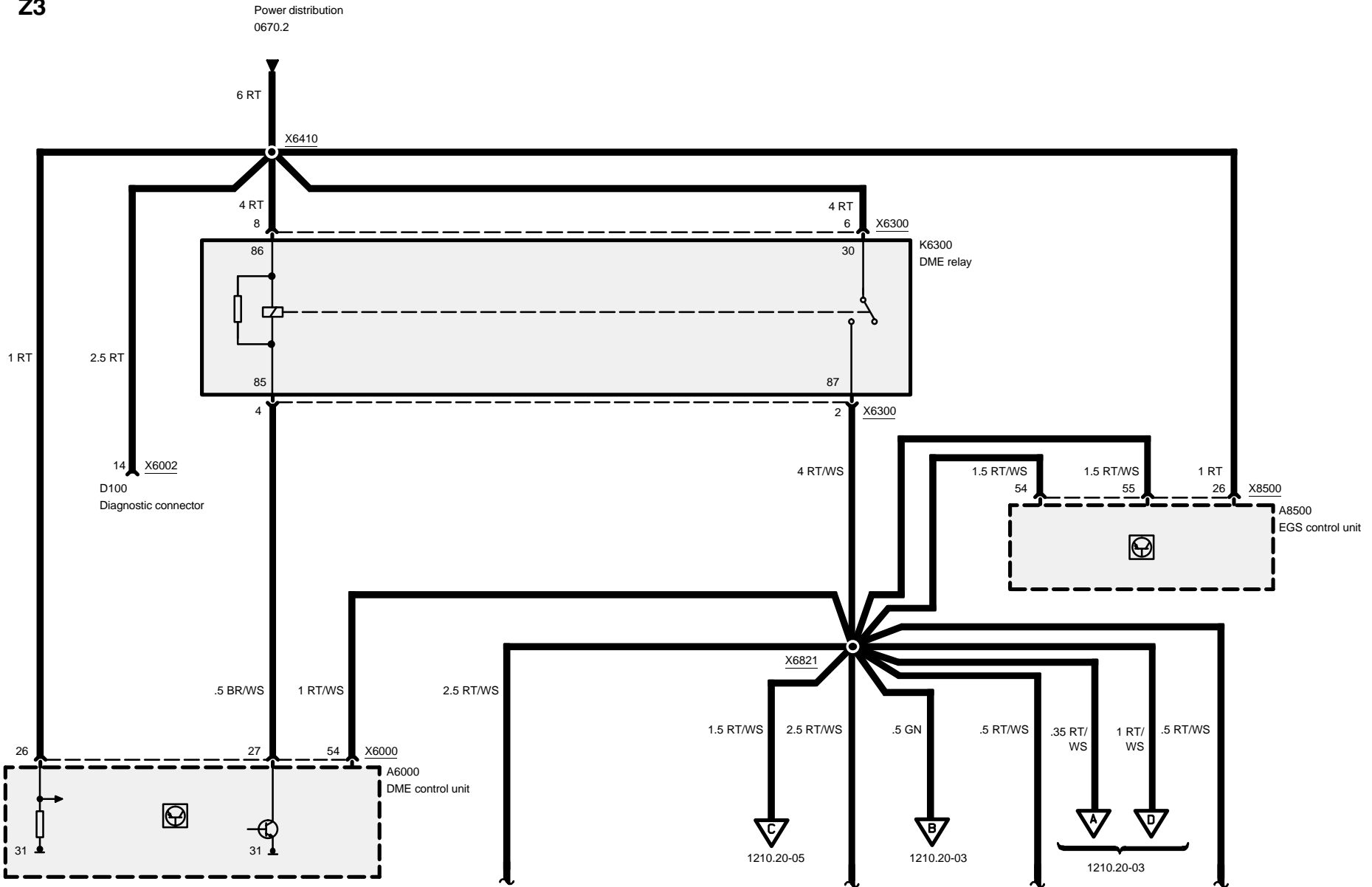
Pin	Type	Description/Function	Connection
66		Not used	
67		Not used	
68	E	Signal, water temperature above 80°C	Dual temperature switch
69	E	Air conditioning ON signal	A/C control unit
70	E	Signal, knock sensor cyl. 1 and 2	Knock sensor
71	M	Sensor ground	Water-intake air temperature sensor, throttle potentiometer and knock sensors
72		Not used	
73		Not used	
74	E	Coolant temperature signal	Remote thermometer sensor
75		Not used	
76		Not used	
77		Not used	
78	E	Crankshaft signal	Crankshaft sensor
79	E	Wheel speed signal, rear right	ABS/ASC control unit
80	A	TD signal	Instrument cluster
81		Not used	
82		Not used	
83	E	Vehicle speed signal	On-board computer
84		Not used	
85	E/A	CAN-LOW	EGS/ASC control unit
86	E/A	CAN-HIGH	EGS/ASC control unit
87	A	RxD diagnostic link	Diagnostic connector
88	E/A	TxD diagnostic link	Diagnostic connector

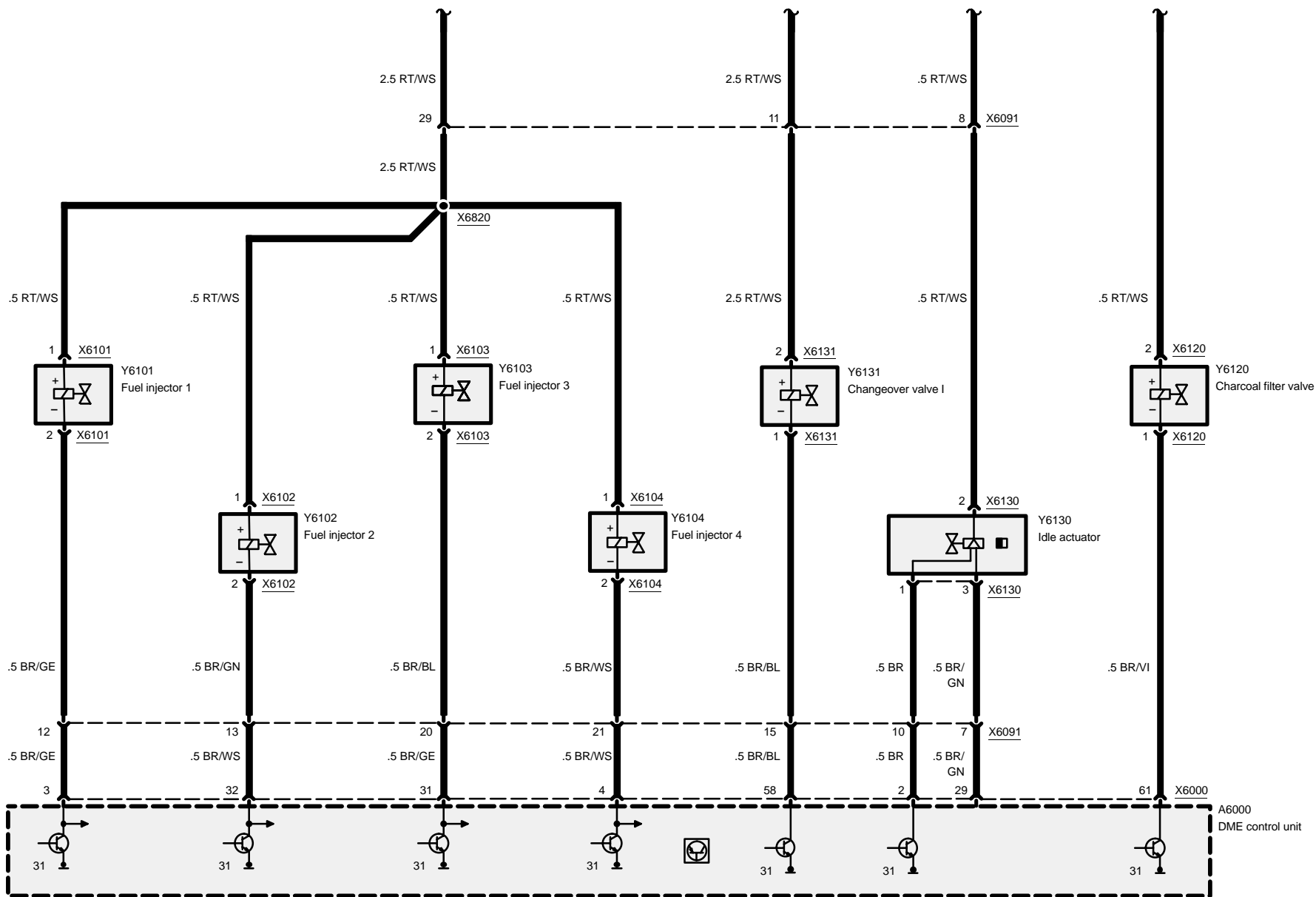
E = Input, A = Output, M = Ground



Digital motor electronics (DME M5.2, 4-cylinder M44)

Current, injector valves



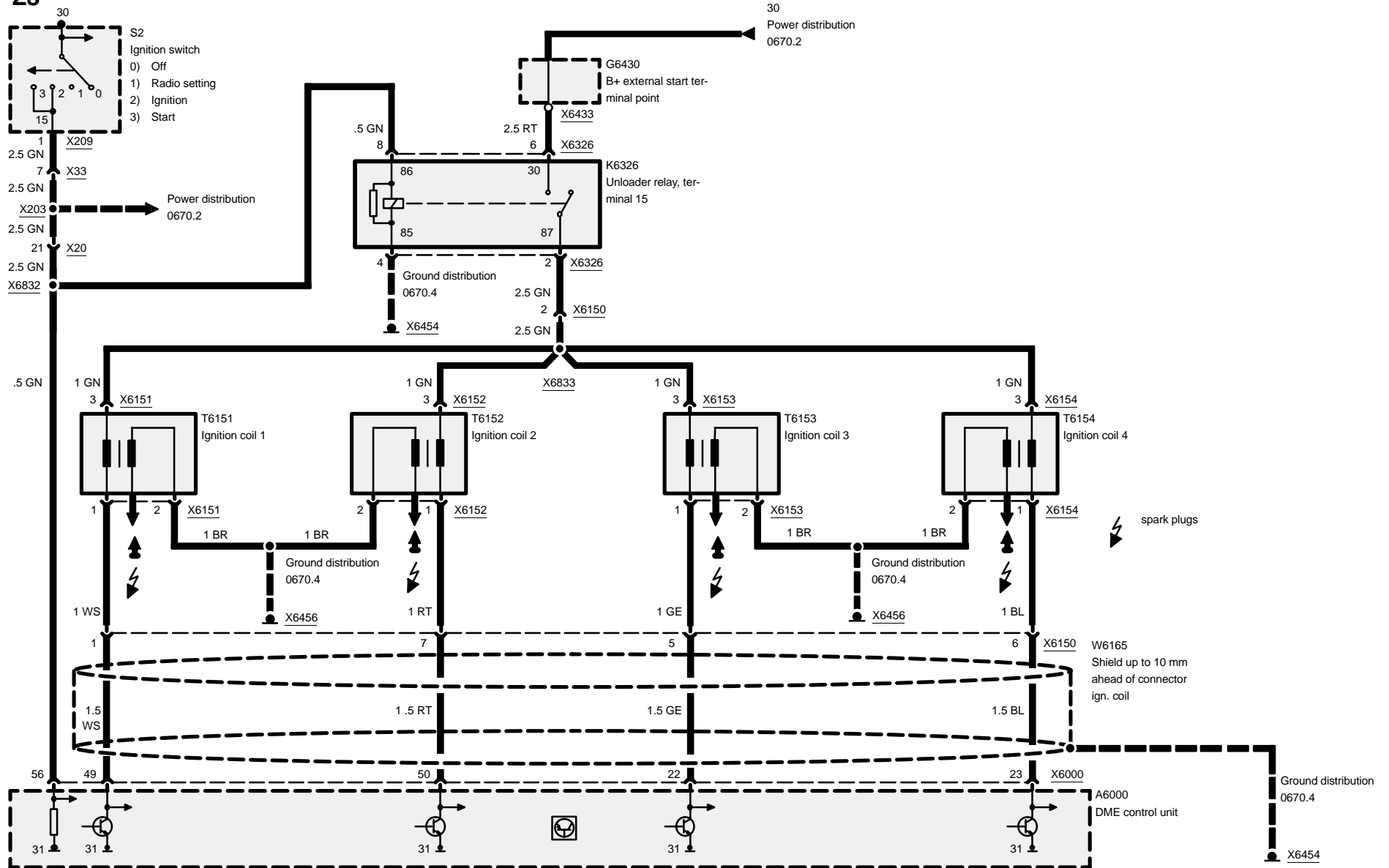




Digital motor electronics (DME M5.2, 4-cylinder M44)

Ignition coils

Z3

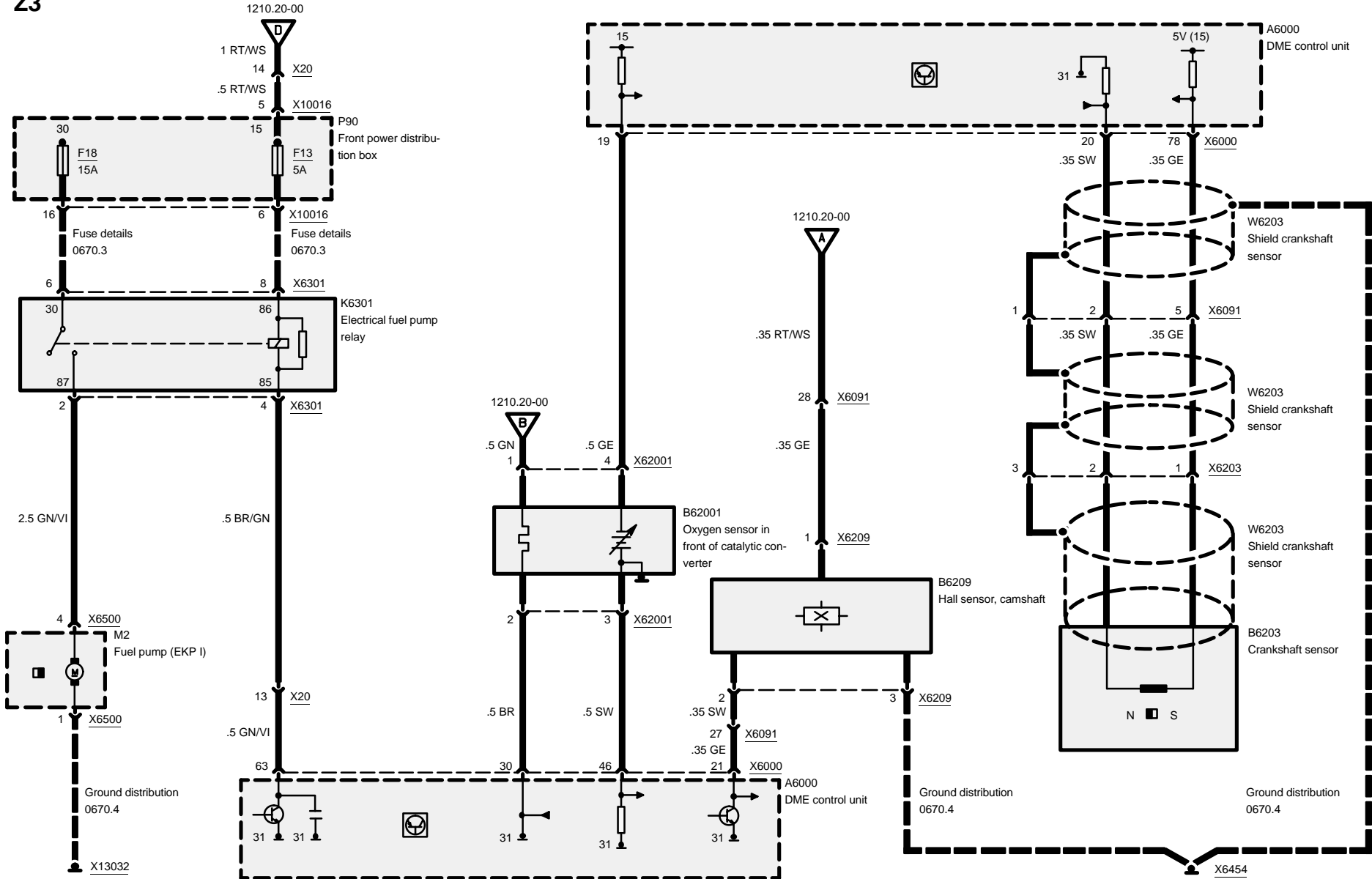




Digital motor electronics (DME M5.2, 4-cylinder M44)

Fuel pump, Oxygen sensor, shaft sensor

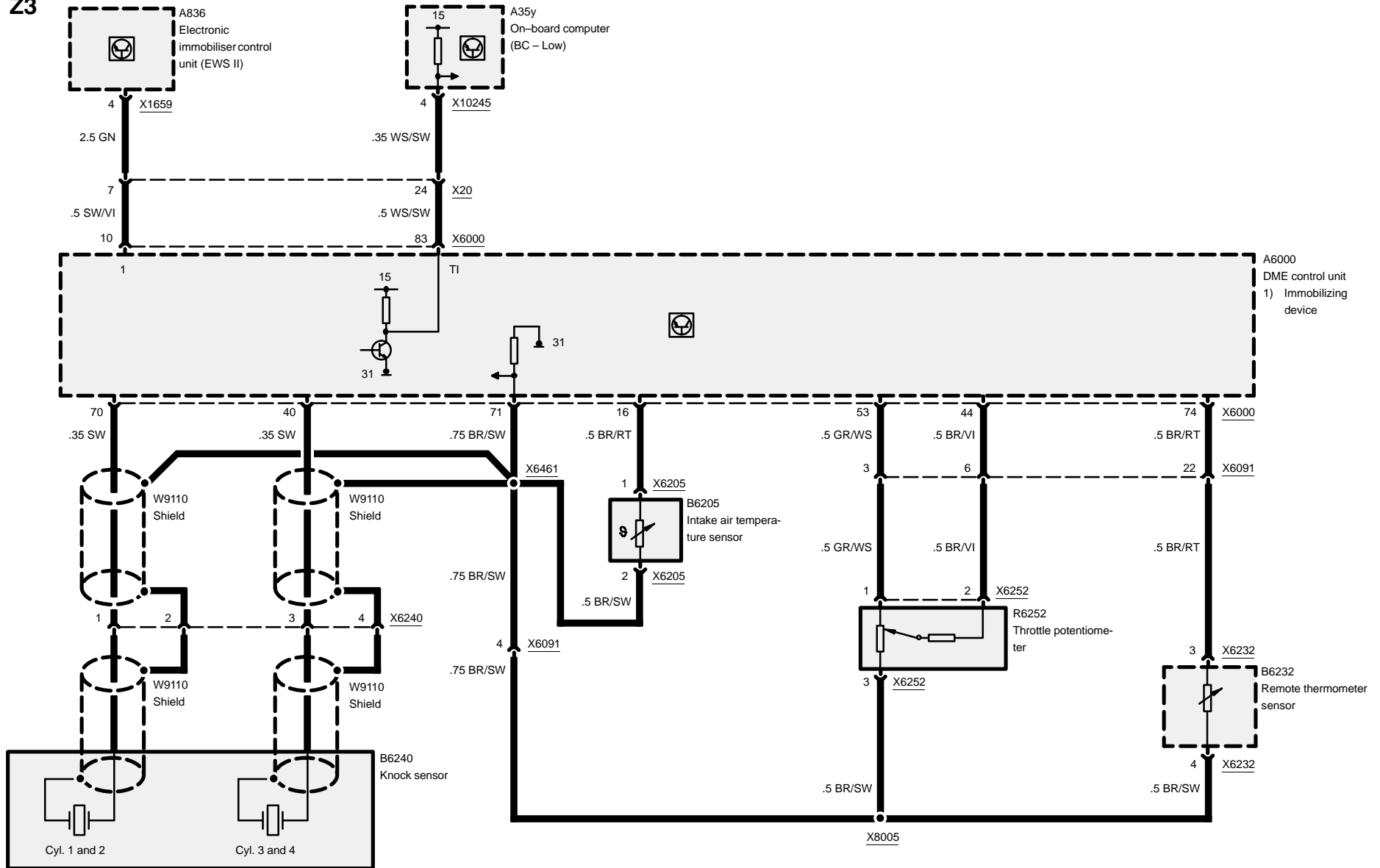
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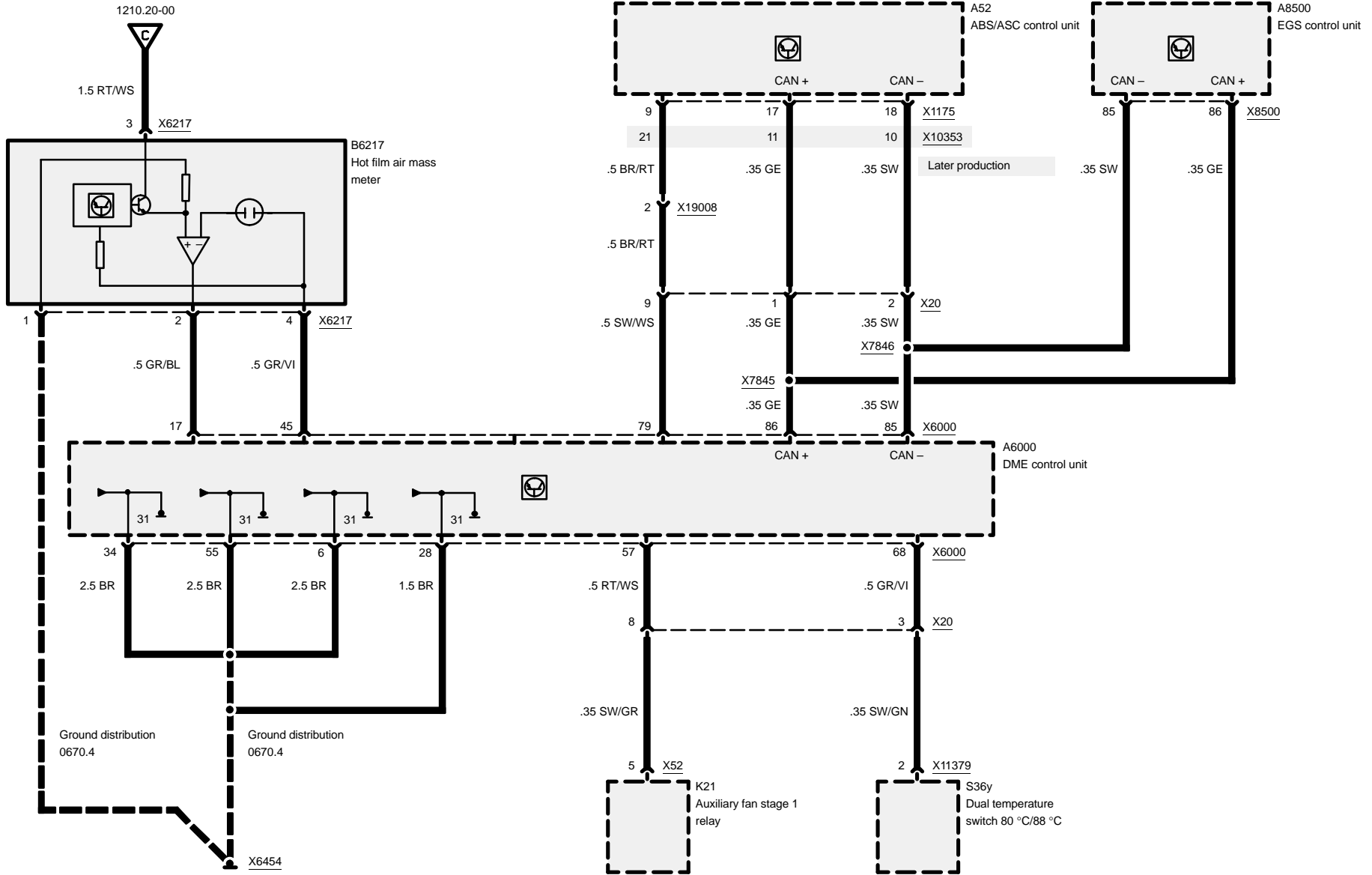


Digital motor electronics (DME M5.2, 4-cylinder M44)

Z3



Digital motor electronics (DME M5.2, 4-cylinder M44)

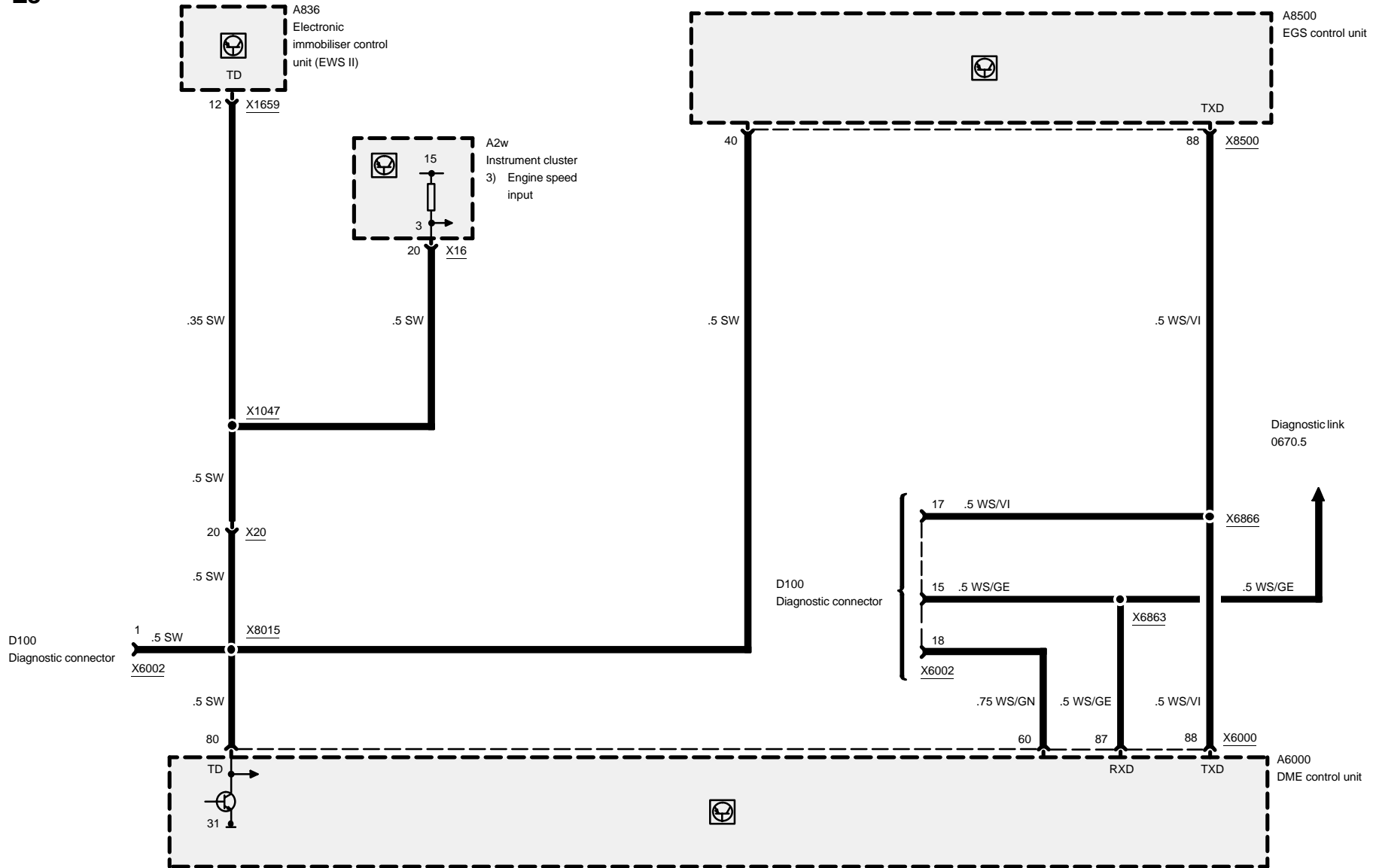




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Digital motor electronics (DME M5.2, 4-cylinder M44)

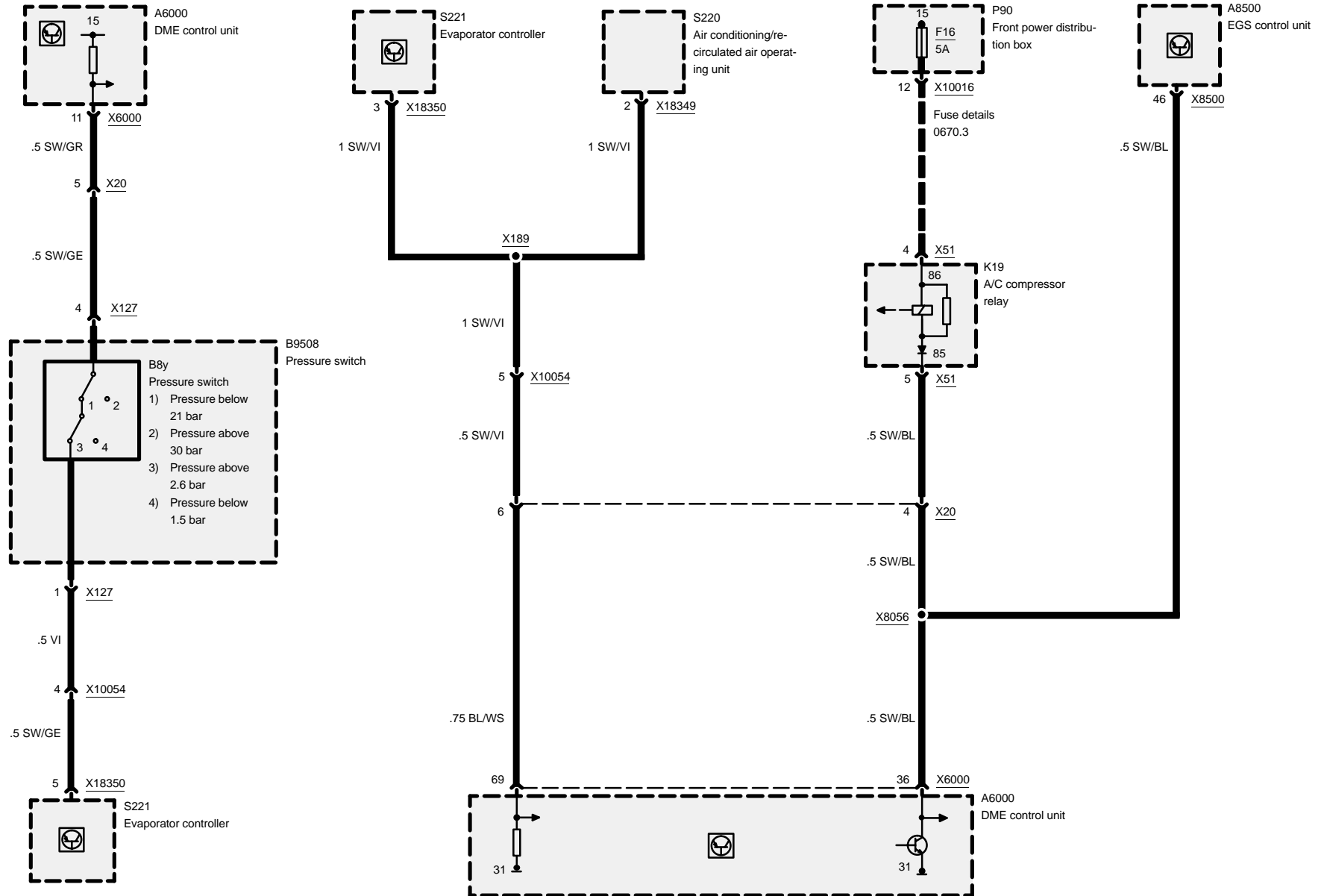
Diagnostic link

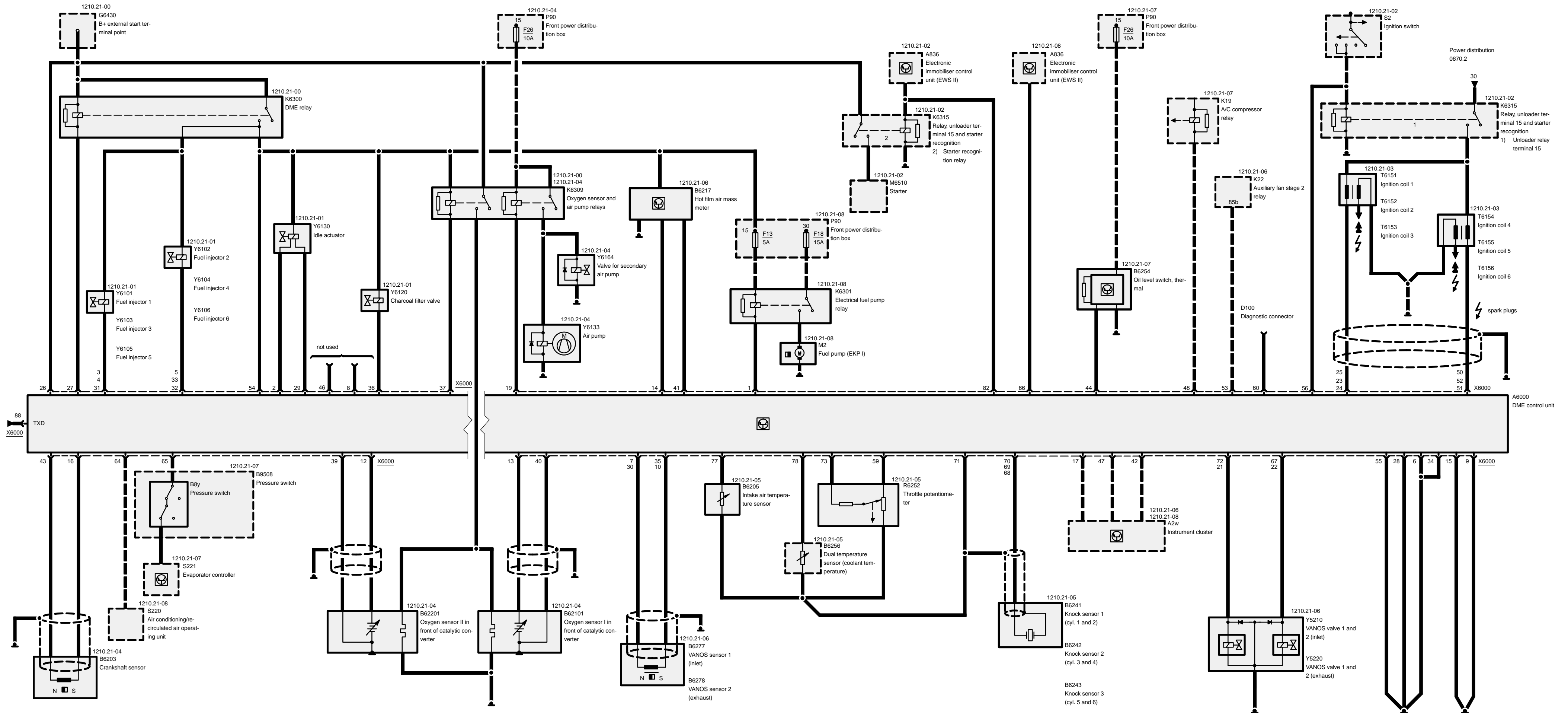




Digital motor electronics (DME M5.2, 4-cylinder M44)

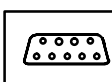
Z3





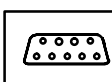


Z3

**Pin assignments****X6000**

Pin	Type	Description/Function	Connection
1	A	Electric fuel pump relay	Electric fuel pump relay
2	A	Close ZWD	Idle actuator
3	A	Injection valve 1	Injection valve
4	A	Injection valve 3	Injection valve
5	A	Injection valve 2	Injection valve
6	M	Ground for injection valves	Ground connection
7	E	VANOS signal -	VANOS sensor (inlet)
8	A	Fault lamp	Not used
9	M	Ground	Ground connection
10	E	VANOS signal +	VANOS sensor (outlet)
11		Not used	
12	E	Signal, oxygen sensor 2	Oxygen sensor 2
13	E	Signal, oxygen sensor 1	Oxygen sensor 1
14	M	Ground HLM (HFM)	Air mass meter
15	E	Signal, ignition monitor	Ground connection
16	E	Signal, crankshaft position/rpm sensor	Crankshaft sensor
17	A	Oil level	Instrument cluster
18		Not used	
19	A	Secondary air pump	Double relay
20		Not used	
21	A	Retard adjustment	VANOS valve 1 (outlet)
22	A	Advance adjustment	VANOS valve 2 (outlet)
23	A	Ignition 2	Ignition coil
24	A	Ignition 3	Ignition coil
25	A	Ignition 1	Ignition coil
26	E	Permanent positive	B + terminal point
27	A	Activation, main relay	Main relay
28	M	Ground, electronics/shield/sensors	Ground connection
29	A	ZWD open	Idle actuator
30	E	VANOS signal -	VANOS sensor (outlet)
31	A	Injection valve 5	Injection valve
32	A	Injection valve 6	Injection valve
33	A	Injection valve 4	Injection valve

E = Input, A = Output, M = Ground



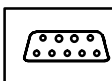
Pin assignments

Pin	Type	Description/Function	Connection
34	M	Ground, remaining output stages	Ground connection
35	E	VANOS signal +	VANOS sensor (inlet)
36	A	Fuel tank ventilation	Fuel tank ventilation valve
37	A	Oxygen sensor heating	Double relay
38		Not used	
39	M	Ground, oxygen sensor 2	Oxygen sensor 2
40	M	Ground, oxygen sensor 1	Oxygen sensor 1
41	E	Signal HLM (HFM)	Air mass meter
42	E	Vehicle speed signal	Instrument cluster
43	M	Ground, crankshaft sensor/rpm sensor	Crankshaft sensor
44	E	Oil level	Thermal oil level switch
45		Not used	
46	A	TI signal	Not used
47	A	TD signal	Instrument cluster
48	E	Signal, A/C compressor	Relay, A/C compressor
49		Not used	
50	A	Ignition 4	Ignition coil
51	A	Ignition 6	Ignition coil
52	A	Ignition 5	Ignition coil
53	E	Fan signal	Relay, auxiliary fan 2
54	E	Battery voltage	DME relay
55	M	Ground, ignition	Ground point
56	E	Terminal 15	Ignition switch
57		Not used	
58		Not used	
59	A	+5V supply	Throttle potentiometer
60	E	Programming voltage input	Diagnostic connector
61		Not used	
62		Not used	
63		Not used	
64	E	Signal, air conditioning ready	A/C operating unit
65	E	Signal, A/C compressor	Pressure switch
66	E	Vehicle immobilization	Control unit, electronic vehicle immobilization (EWS II)
67	A	Advance adjustment	VANOS valve 2

E = Input, A = Output, M = Ground



Z3

**Pin assignments**

Pin	Type	Description/Function	Connection
68	E	Signal +	Knock sensor 3
69	E	Signal +	Knock sensor 2
70	E	Signal +	Knock sensor 1
71	M	Ground, analog signals and knock sensors	Sensors
72	A	Retard adjustment	VANOS valve 1 (inlet)
73	E	Signal, throttle position sensor	Throttle potentiometer
74		Not used	
75		Not used	
76		Not used	
77	E	Intake air temperature	Intake air temperature sensor
78	E	Coolant temperature	Coolant temperature sensor
79		Not used	
80		Not used	
81		Not used	
82	E	Start speed recognition	Start detection relay
83		Not used	
84		Not used	
85		Not used	
86		Not used	
87		Not used	
88	E/A	TxD diagnostic link	Diagnostic connector

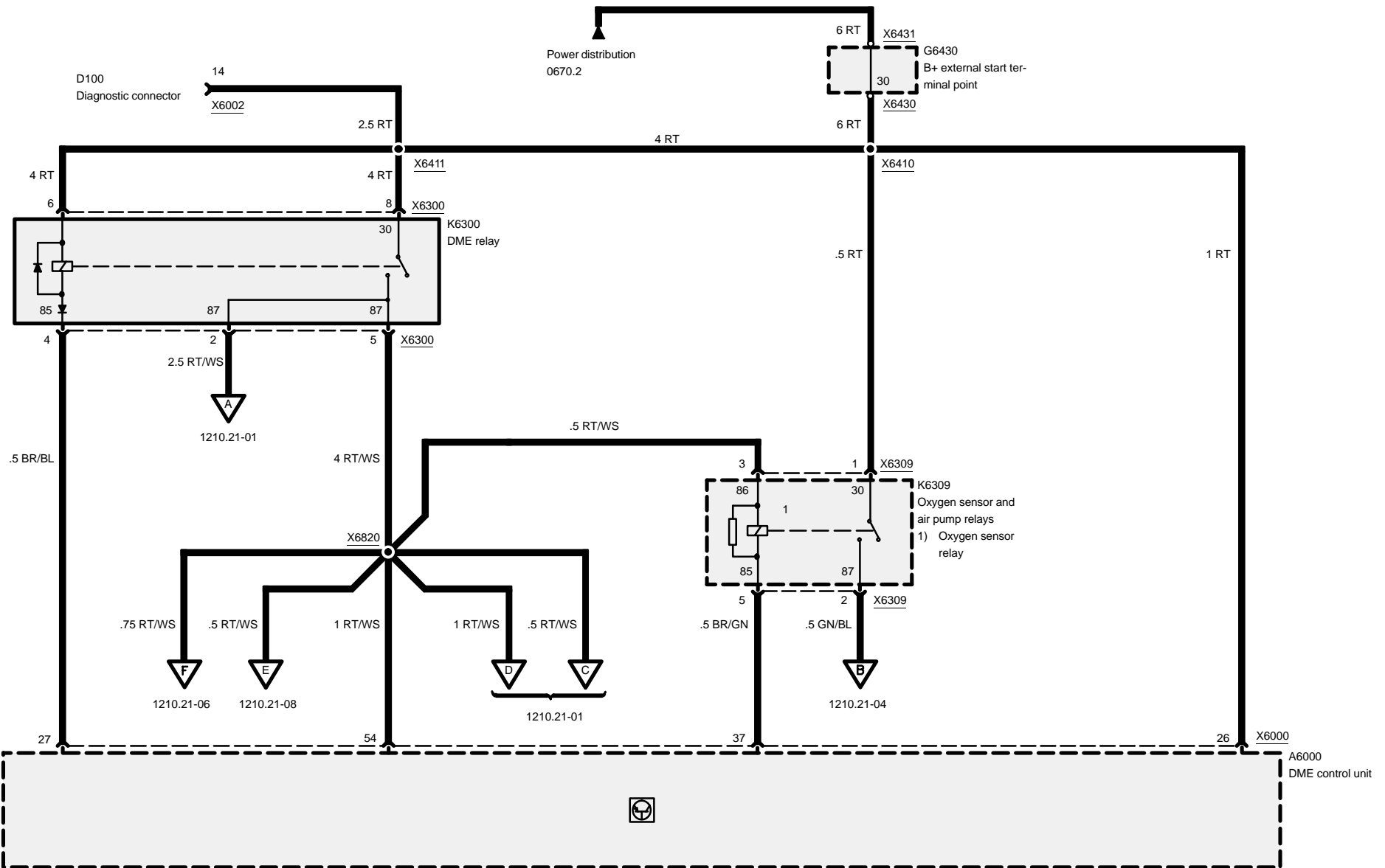
E = Input, A = Output, M = Ground



Z3

Digital motor electronics (DME MSS50, 6-cylinder S50 B32)

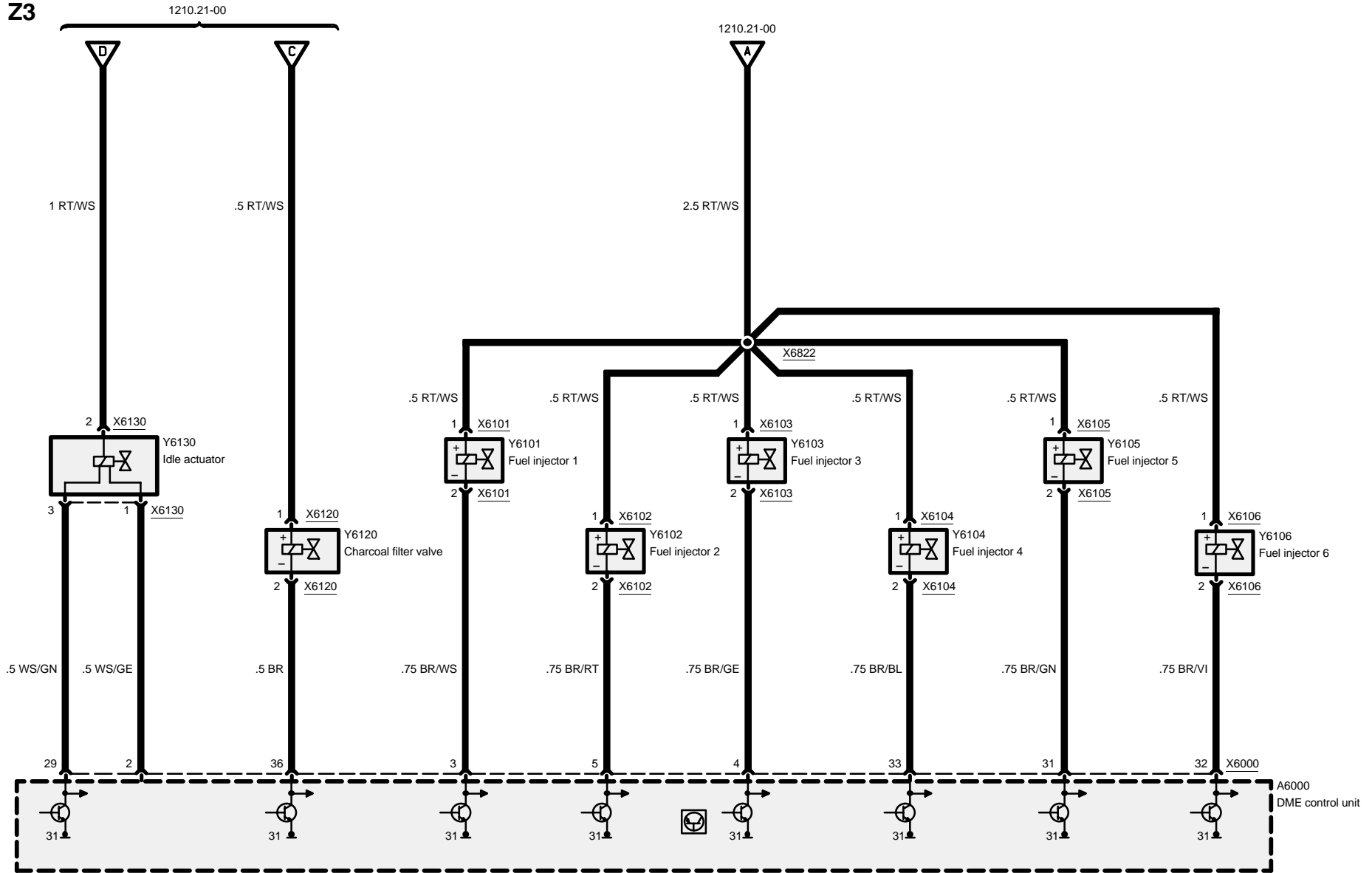
Current





Digital motor electronics (DME MSS50, 6-cylinder S50 B32)

Z3

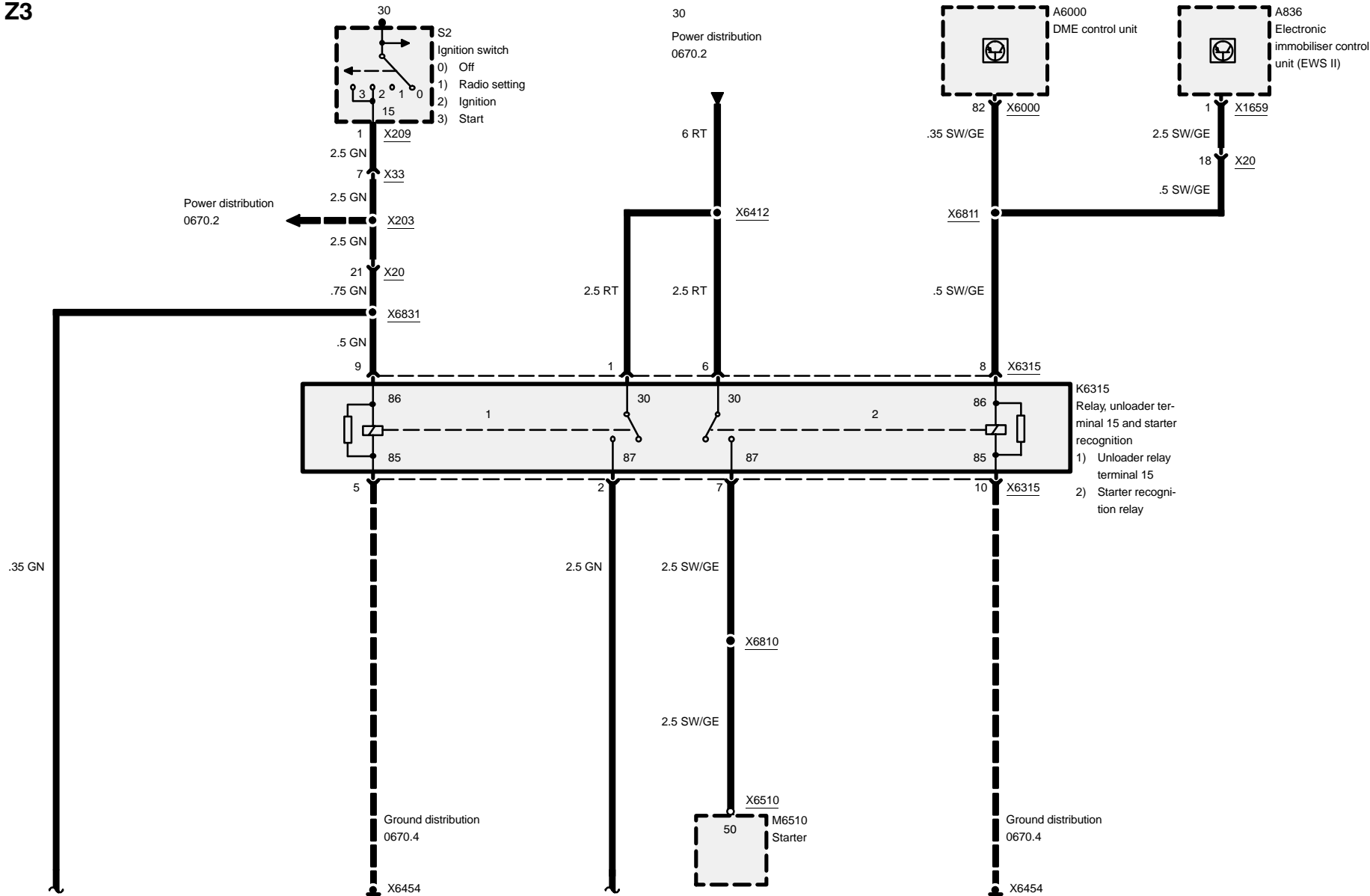


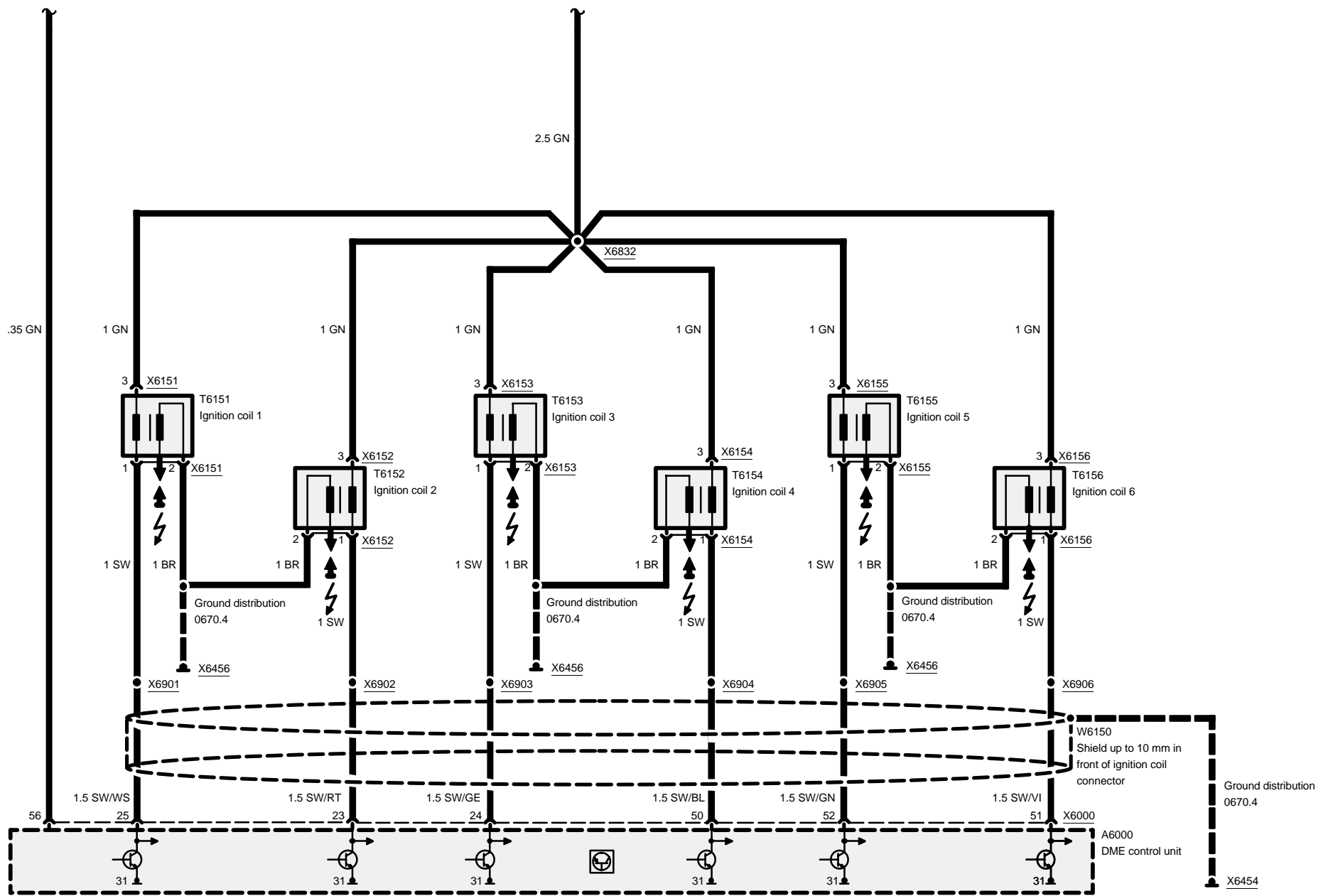


Digital motor electronics (DME MSS50, 6-cylinder S50 B32)

Current

Z3



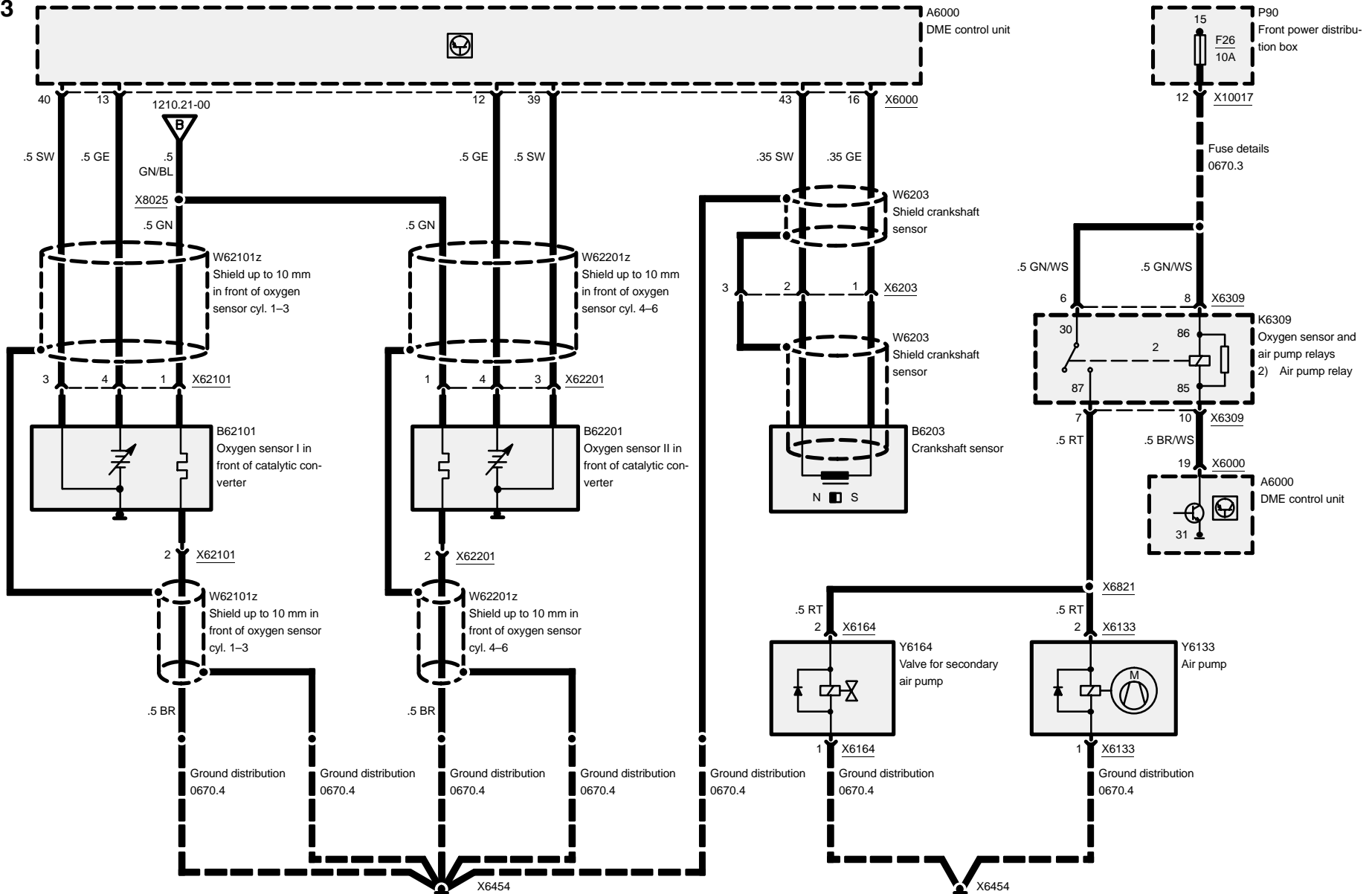




Digital motor electronics (DME MSS50, 6-cylinder S50 B32)

Oxygen sensors, crankshaft sensor, air pump

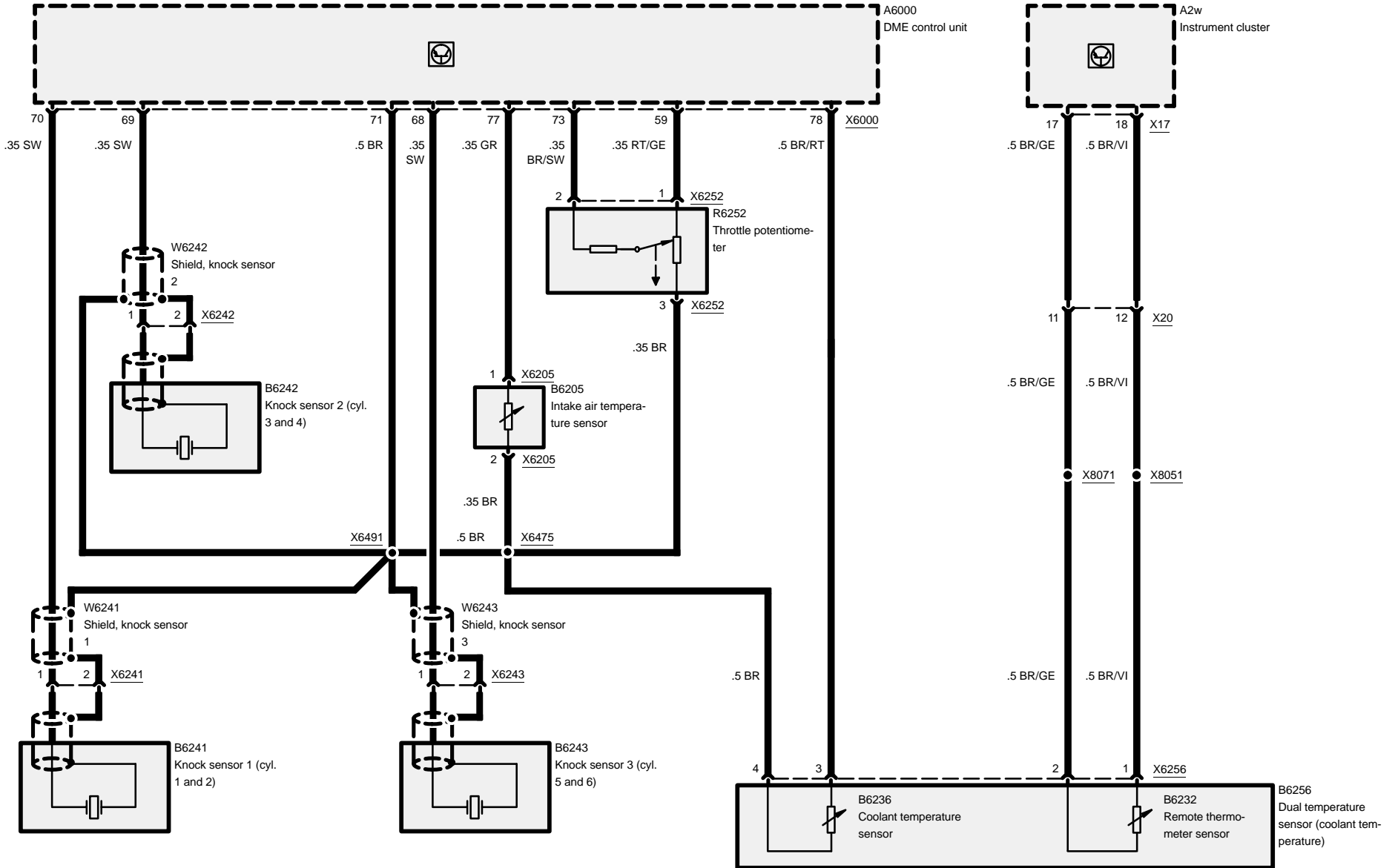
Z3





Digital motor electronics (DME MSS50, 6-cylinder S50 B32)

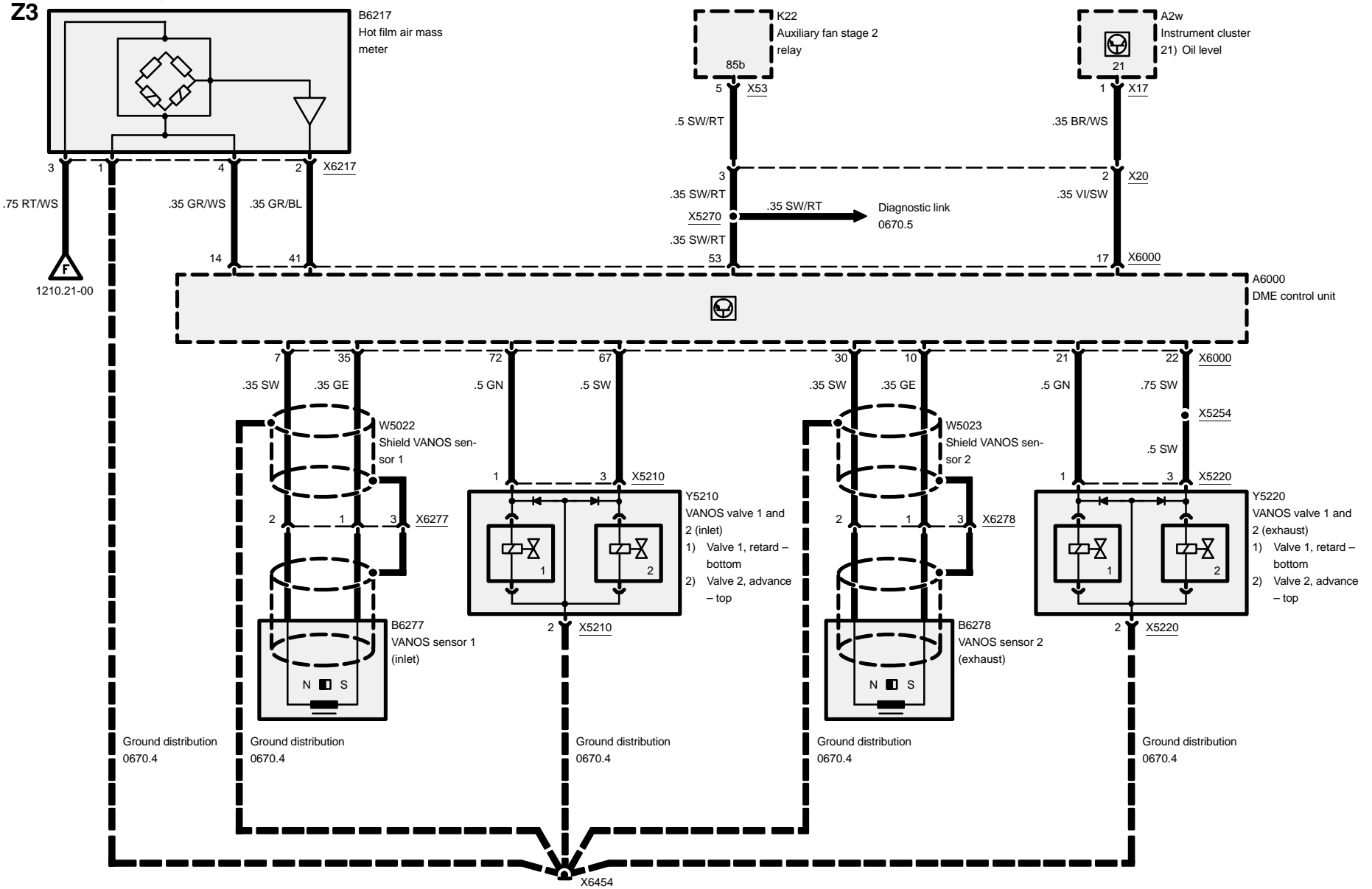
Z3





Digital motor electronics (DME MSS50, 6-cylinder S50 B32)

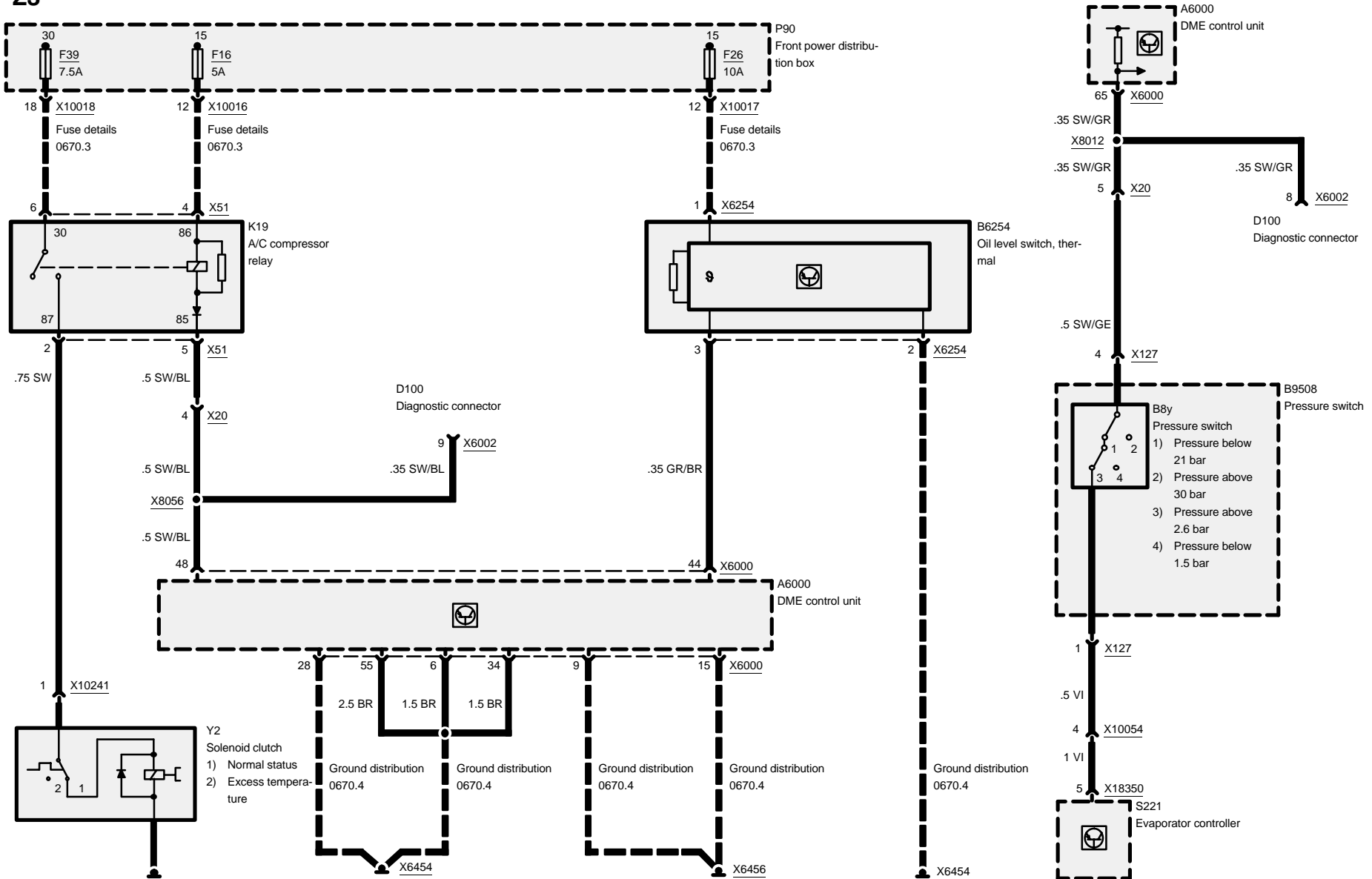
VANOS, air mass meter





Digital motor electronics (DME MSS50, 6-cylinder S50 B32)

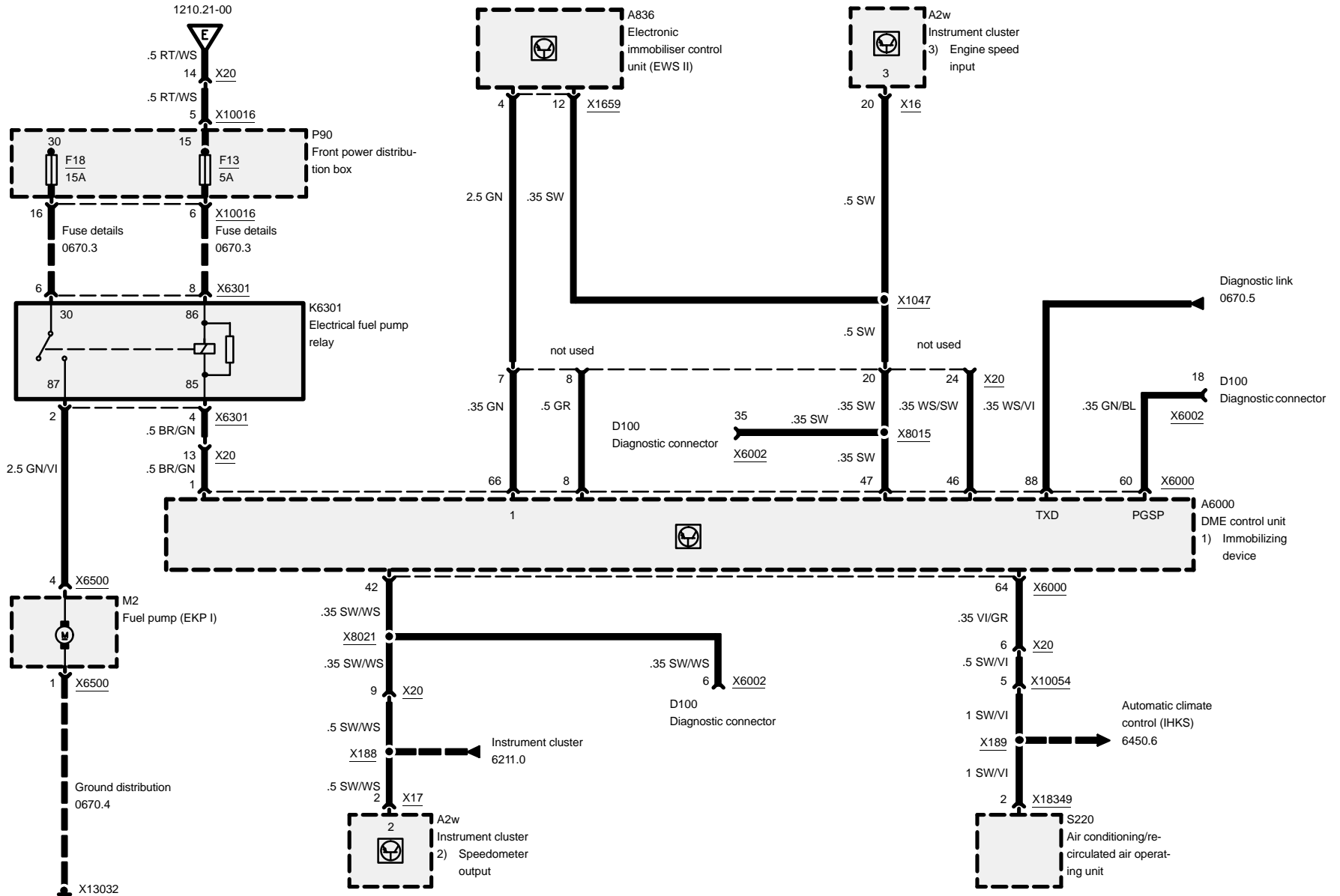
Z3





Z3

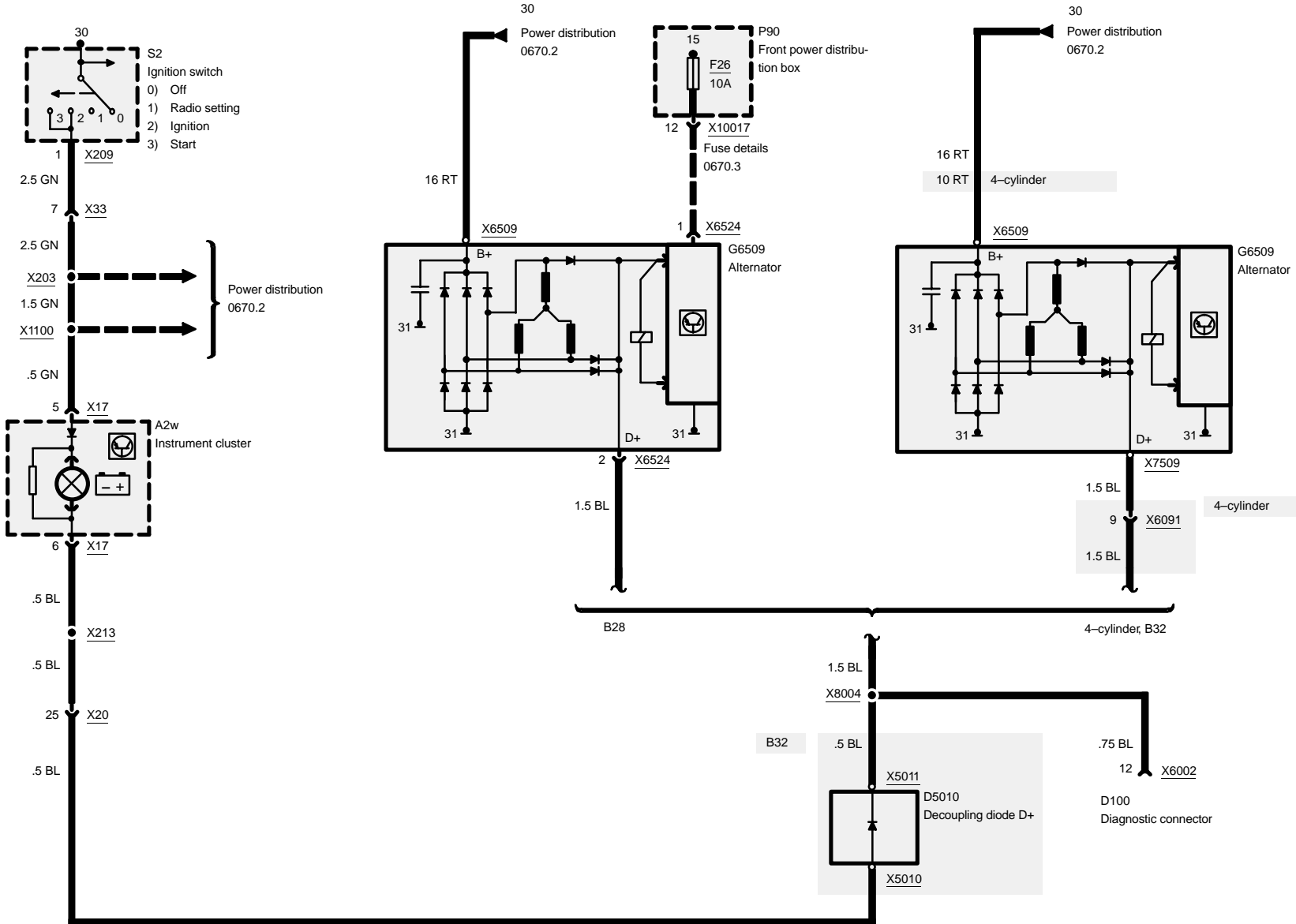
Digital motor electronics (DME MSS50, 6-cylinder S50 B32)





Z3

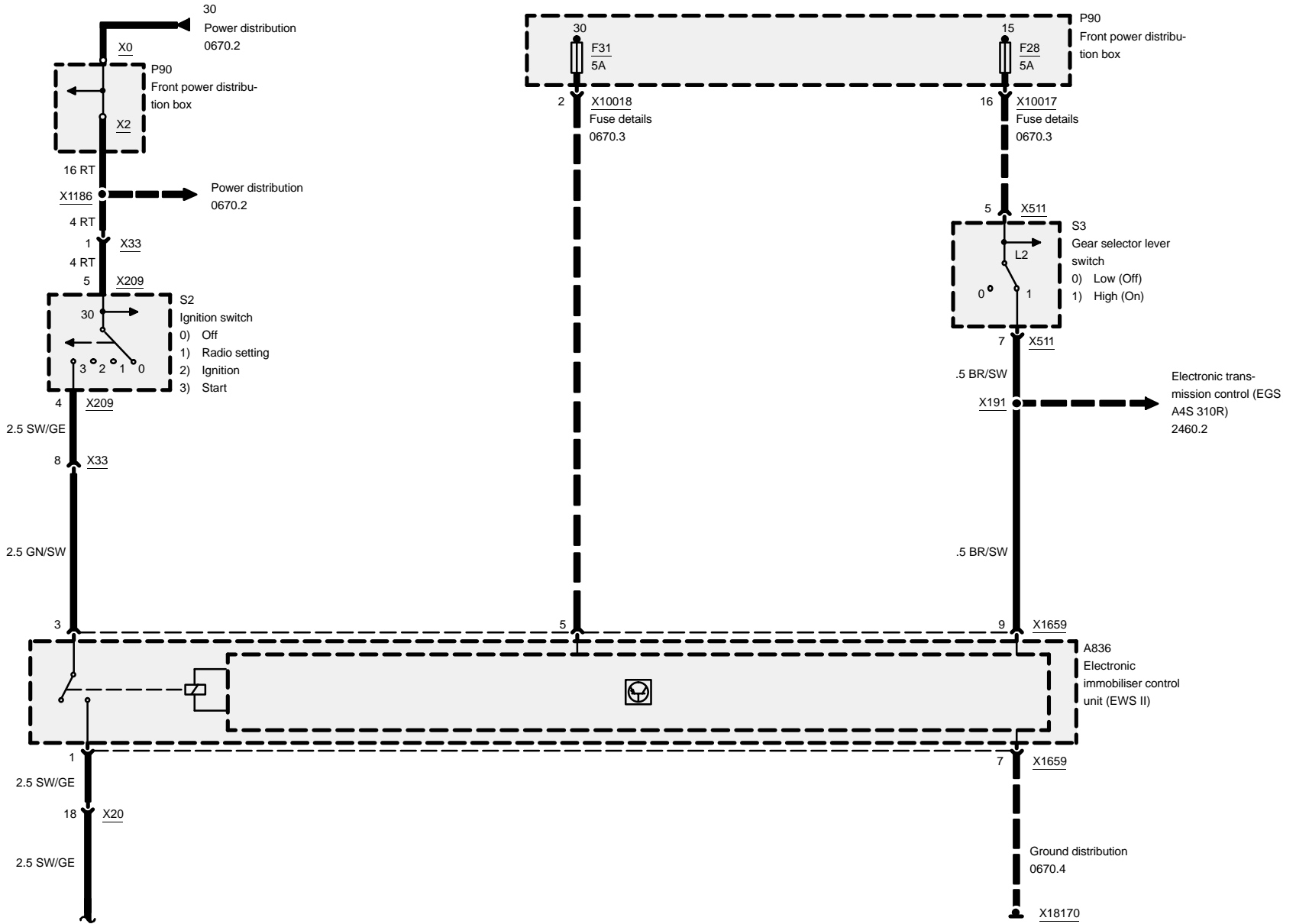
1230.0 Alternator

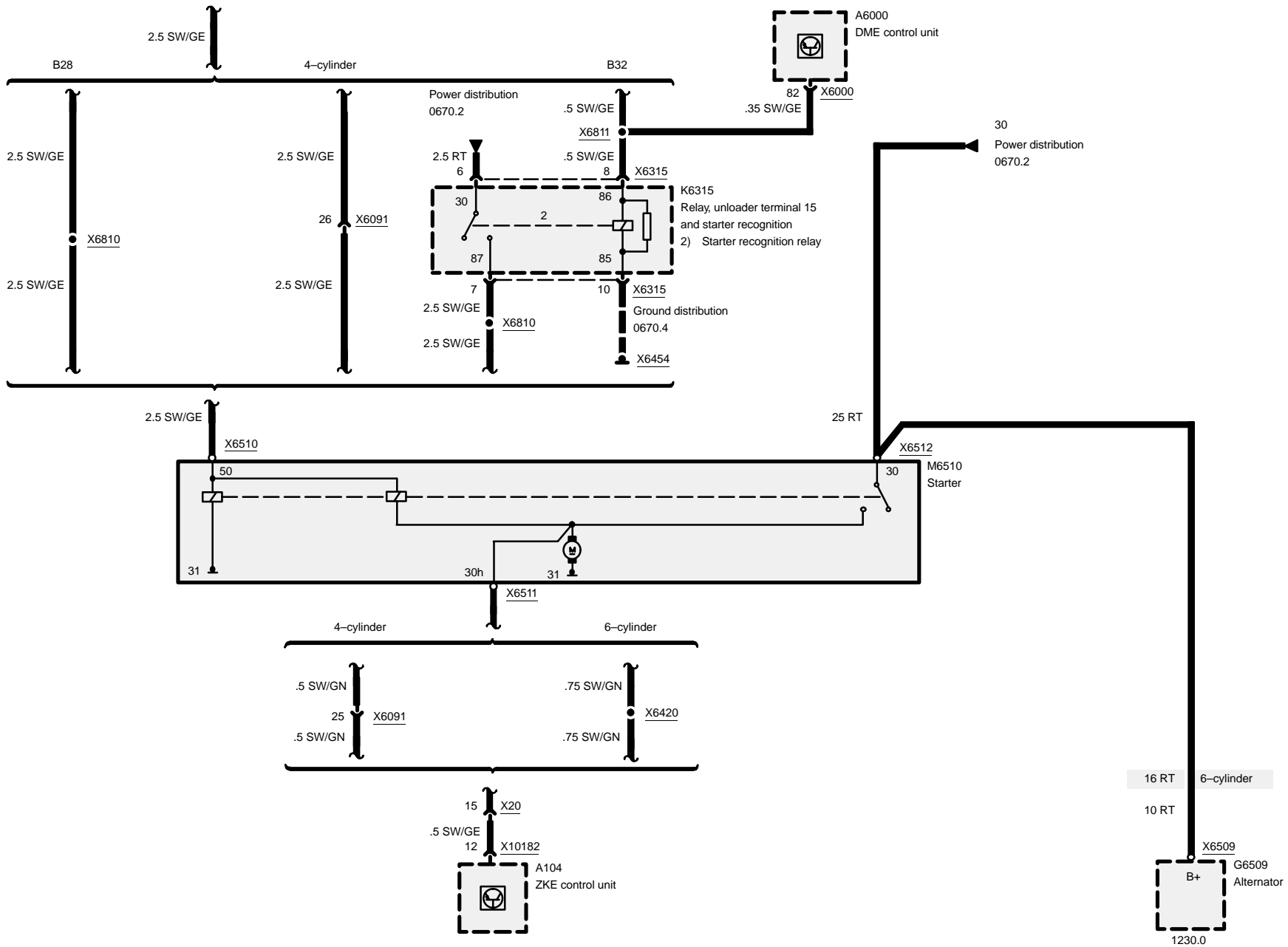




Z3

1240.0 Starter





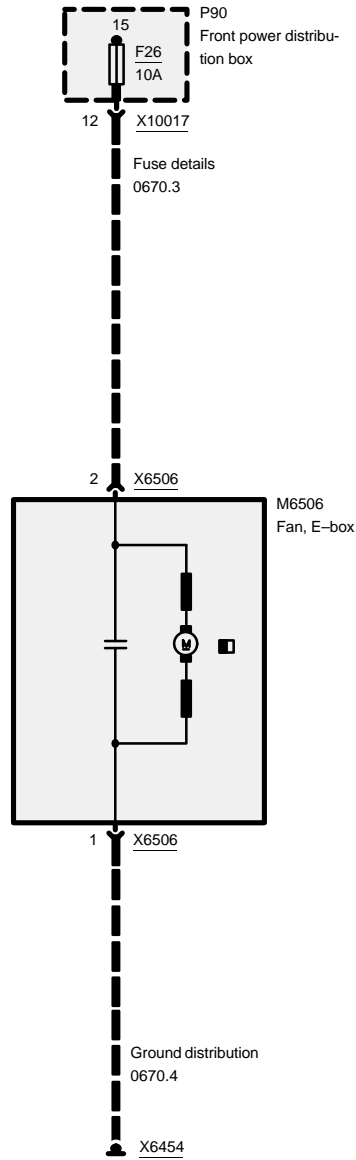
05/99
 1240.0-01
 1998



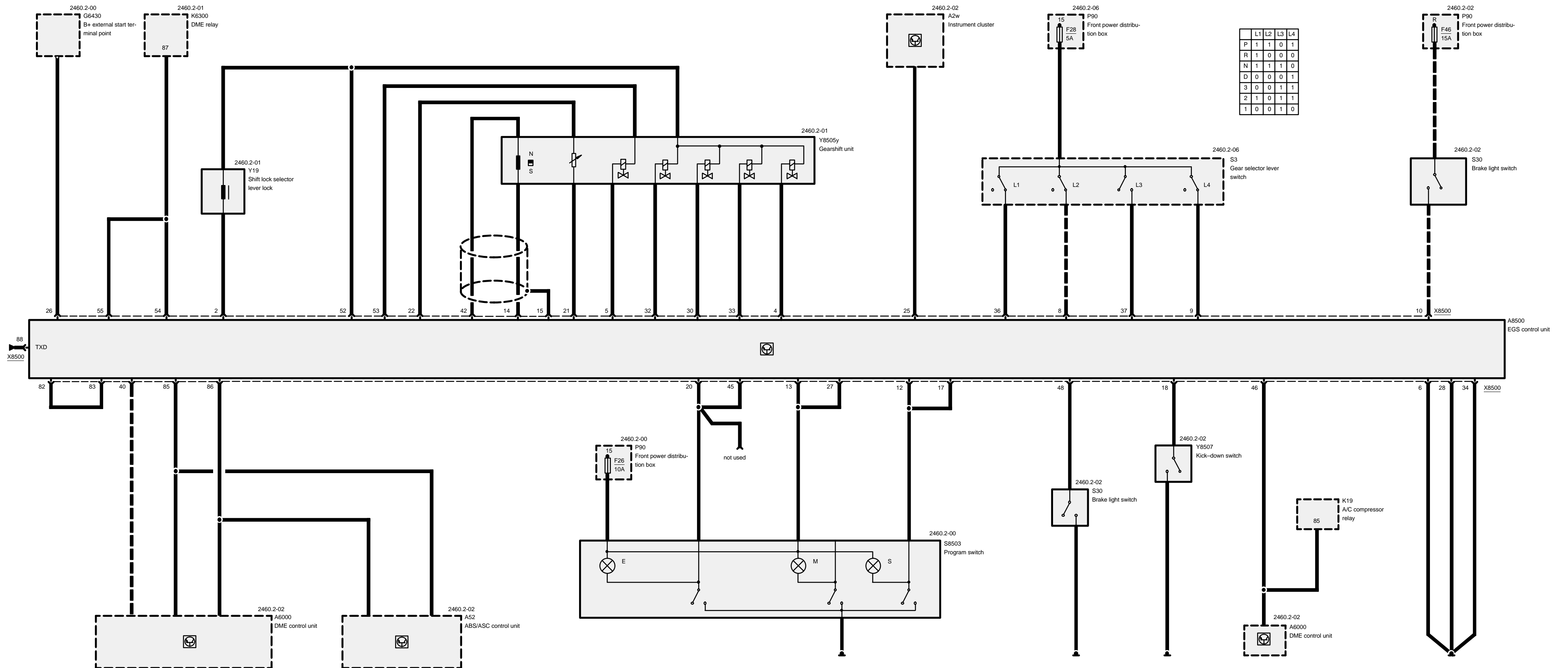
Z3

1290.0 E-box fan

B32

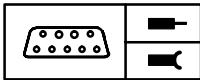


4-cylinder





Z3

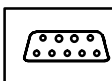
**Pin assignments (4-cylinder)****X8500**

Pin	Type	Description/Function	Connection
1		Not used	
2	A	Solenoid, P/N shift-lock	Selector lever lock
3		Not used	
4	A	Solenoid valve, band	Gearshift unit
5	A	Pressure regulator (-)	Gearshift unit
6	M	Ground	Ground connection
7		Not used	
8	E	Position switch L2	Selector lever switch
9	E	Position switch L4	Selector lever switch
10	E	Brake signal	Brake light switch
11		Not used	
12	E	S-program	Program switch
13	E	M-program	Program switch
14	M	Ground n-ab	Gearshift unit
15	M	Shield, speed sensor	Shield
16		Not used	
17	A	S-program	Program switch
18	E	Kick-down	Kick-down switch
19		Not used	
20	E	E-program	Program switch
21	M	Analog ground	Gearshift unit
22	E	Oil temperature sensor (+)	Gearshift unit
23		Not used	
24		Not used	
25	A	Fault indicator	Instrument cluster
26	E	B+ voltage	Jumper cable terminal point
27	A	M-program	Program switch
28	M	Ground	Ground connection
29		Not used	
30	A	Solenoid valve 1	Gearshift unit
31		Not used	
32	A	Solenoid valve, converter lockup clutch	Gearshift unit
33	A	Solenoid valve 2	Gearshift unit

E = Input, A = Output, M = Ground



Z3

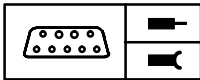
**Pin assignments (4-cylinder)**

Pin	Type	Description/Function	Connection
34	M	Ground	Ground connection
35		Not used	
36	E	Position switch L1	Selector lever switch
37	E	Position switch L3	Selector lever switch
38		Not used	
39		Not used	
40	E	Fuel consumption (TI signal)	DME control unit
41		Not used	
42	A	Component supply n-ab	Gearshift unit
43		Not used	
44		Not used	
45	A	E-program	Program switch
46	E	Air conditioning ON signal	Air conditioner compressor relay
47		Not used	
48	E	Brake test signal	Brake light switch
49		Not used	
50		Not used	
51		Not used	
52	A	Solenoid valves (+)	Gearshift unit
53	A	Pressure regulator (+)	Gearshift unit
54	E	B+ voltage	DME relay
55	E	B+ voltage	DME relay
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	
61		Not used	
62		Not used	
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	

E = Input, A = Output, M = Ground

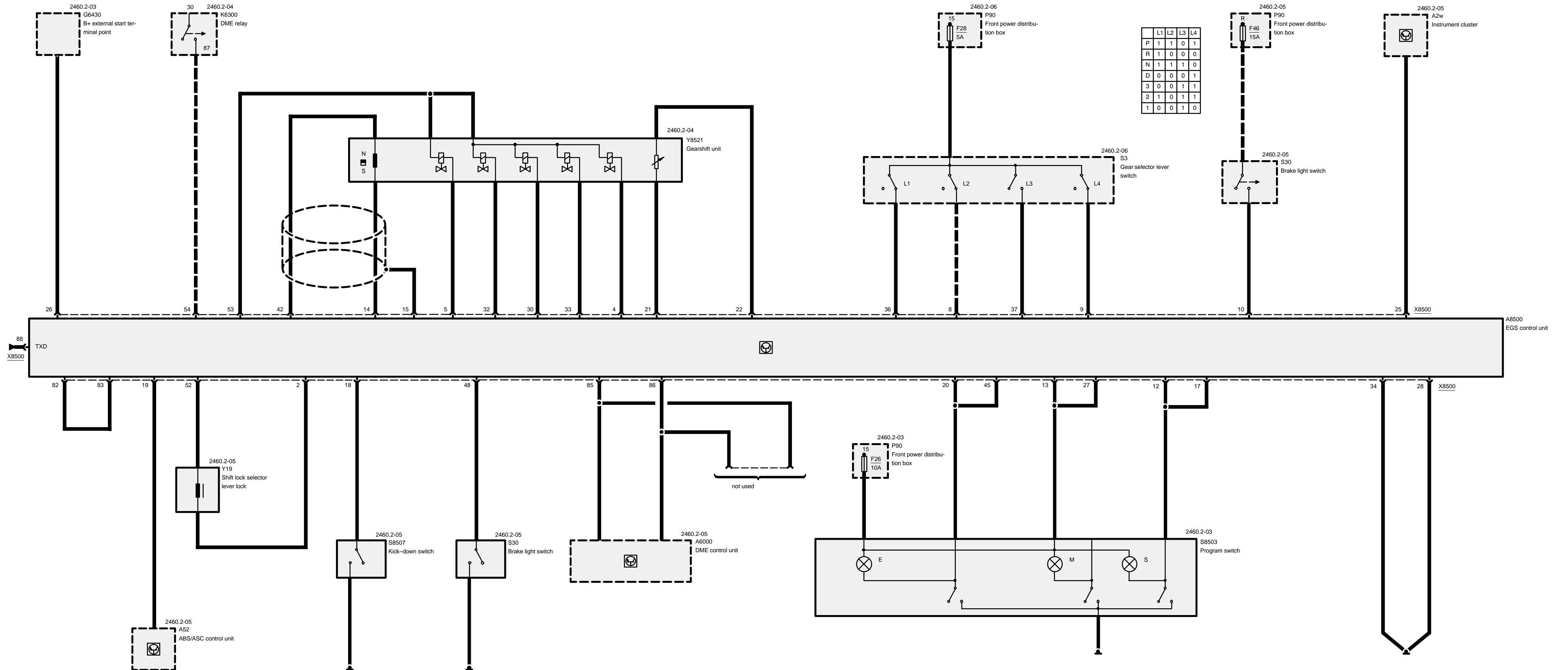


Z3

**Pin assignments (4-cylinder)**

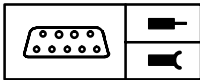
Pin	Type	Description/Function	Connection
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82	E/A	Jumper	
83	E/A	Jumper	
84		Not used	
85	E/A	CAN-LOW	DME/ASC control unit
86	E/A	CAN-HIGH	DME/ASC control unit
87		Not used	
88	E/A	TxD diagnostic link	Diagnostic connector

6-cylinder





Z3

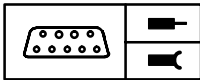
**Pin assignments (6-cylinder)****X8500**

Pin	Type	Description/Function	Connection
1		Not used	
2	A	Solenoid, P/N shift-lock	Selector lever lock
3		Not used	
4	A	Solenoid valve 3	Gearshift unit
5	A	Pressure regulator (-)	Gearshift unit
6		Not used	
7		Not used	
8	E	Position switch L2	Selector lever switch
9	E	Position switch L4	Selector lever switch
10	E	Brake signal	Brake light switch
11		Not used	
12	E	S-program	Program switch
13	E	M-program	Program switch
14	M	Ground n-ab	Gearshift unit
15	M	Shield, speed sensor	Shield
16		Not used	
17	A	S-program	Program switch
18	E	Kick-down	Kick-down switch
19	E	ASC signal	ASC control unit
20	E	E-program	Program switch
21	M	Analog ground	Gearshift unit
22	E	Oil temperature sensor (+)	Gearshift unit
23		Not used	
24		Not used	
25	A	Fault indicator	Instrument cluster
26	E	B+ voltage	Jumper cable terminal point
27	A	M-program	Program switch
28	M	Ground	Ground connection
29		Not used	
30	A	Solenoid valve 1	Gearshift unit
31		Not used	
32	A	Solenoid valve, converter lockup clutch	Gearshift unit
33	A	Solenoid valve 2	Gearshift unit

E = Input, A = Output, M = Ground



Z3

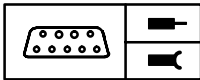
**Pin assignments (6-cylinder)**

Pin	Type	Description/Function	Connection
34	M	Ground	Ground connection
35		Not used	
36	E	Position switch L1	Selector lever switch
37	E	Position switch L3	Selector lever switch
38		Not used	
39		Not used	
40		Not used	
41		Not used	
42	A	Component supply n-ab	Gearshift unit
43		Not used	
44		Not used	
45	A	E-program	Program switch
46		Not used	
47		Not used	
48	E	Brake test signal	Brake light switch
49		Not used	
50		Not used	
51		Not used	
52	A	Solenoid, P/N shift-lock	Selector lever lock
53	A	Solenoid valves (+)	Gearshift unit
54	E	B+ voltage	DME relay
55		Not used	
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	
61		Not used	
62		Not used	
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	

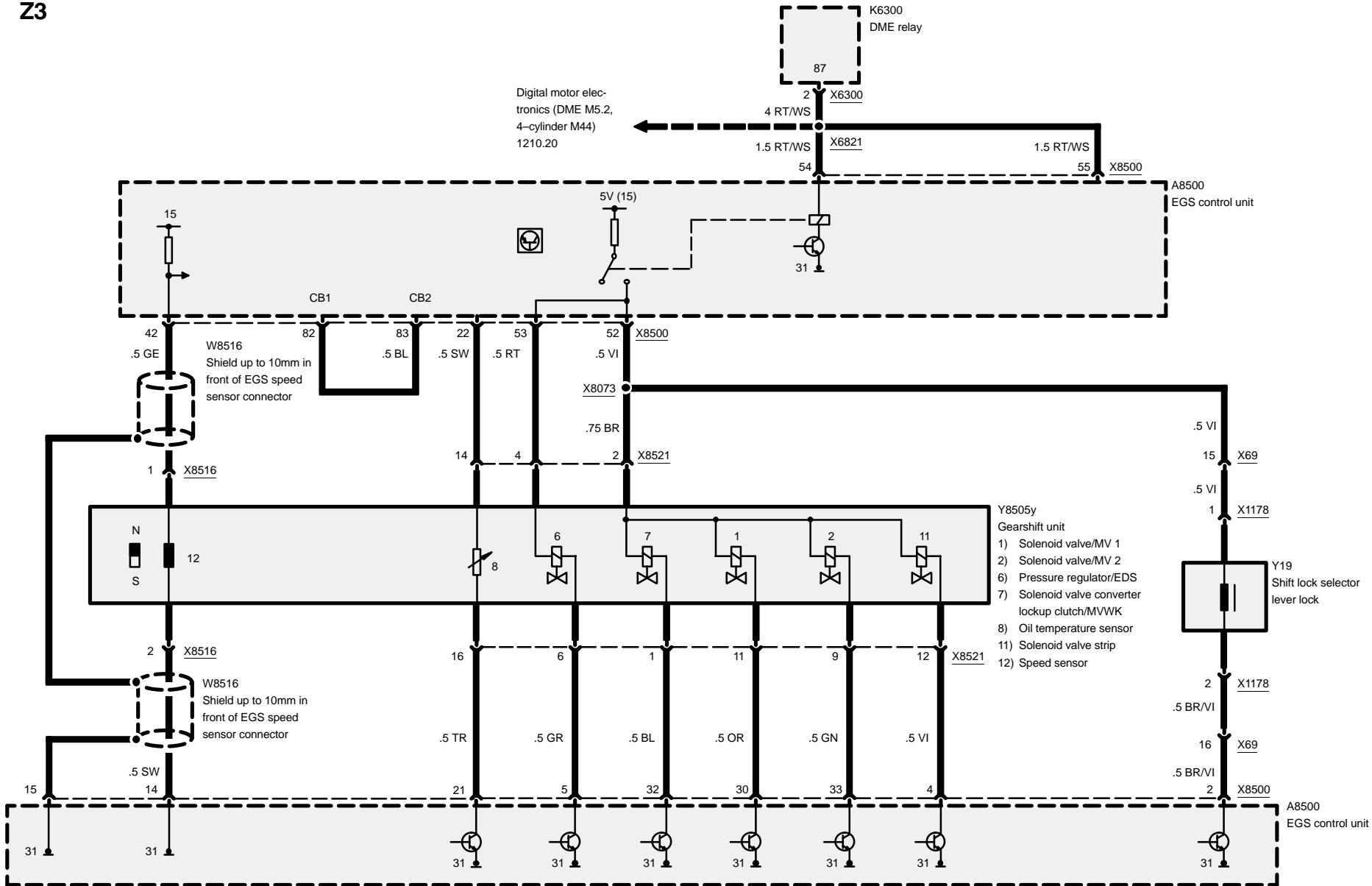
E = Input, A = Output, M = Ground



Z3

**Pin assignments (6-cylinder)**

Pin	Type	Description/Function	Connection
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82	E/A	Jumper	
83	E/A	Jumper	
84		Not used	
85	E/A	CAN-LOW	DME control unit
86	E/A	CAN-HIGH	DME control unit
87		Not used	
88	E/A	TxD diagnostic link	Diagnostic connector

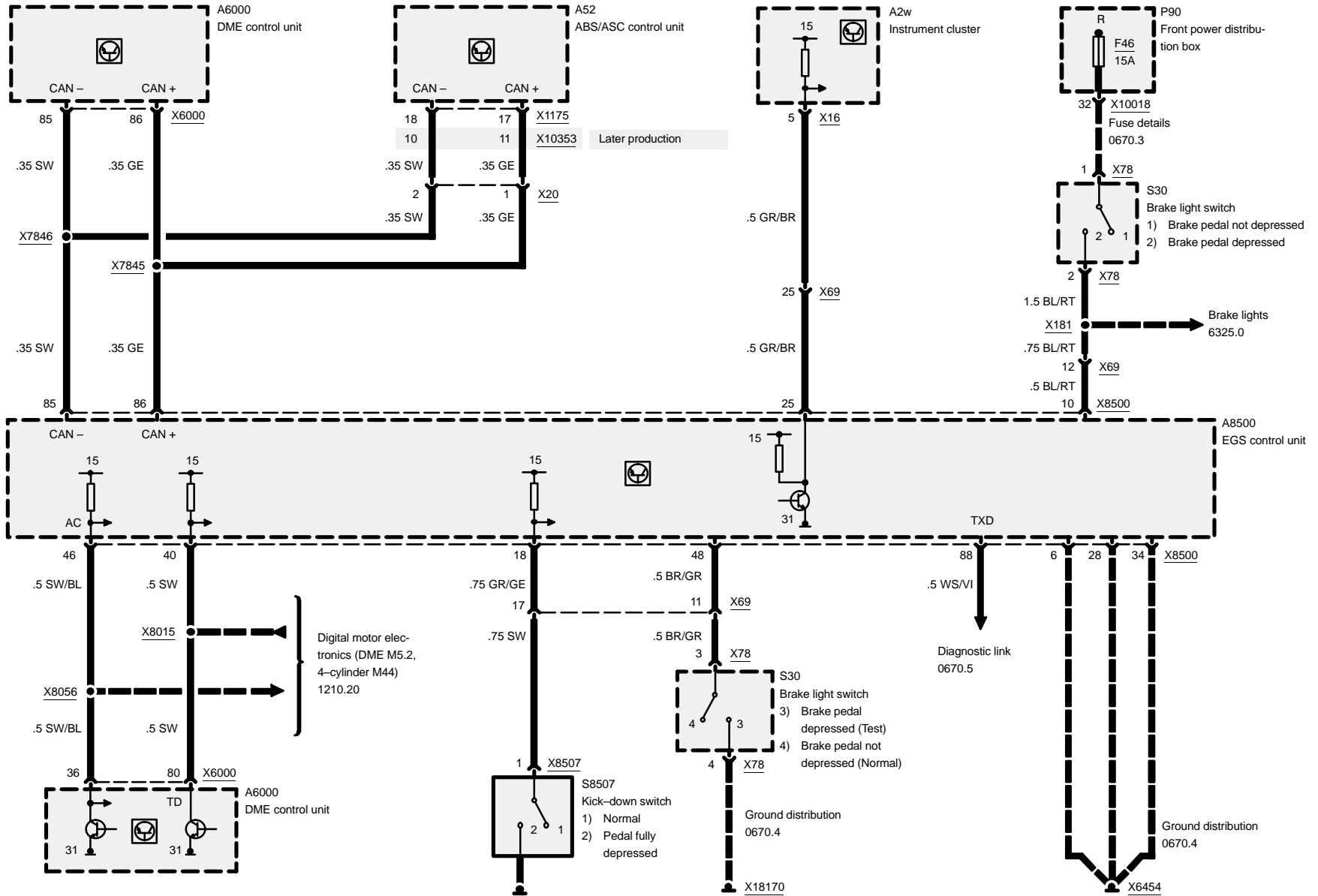


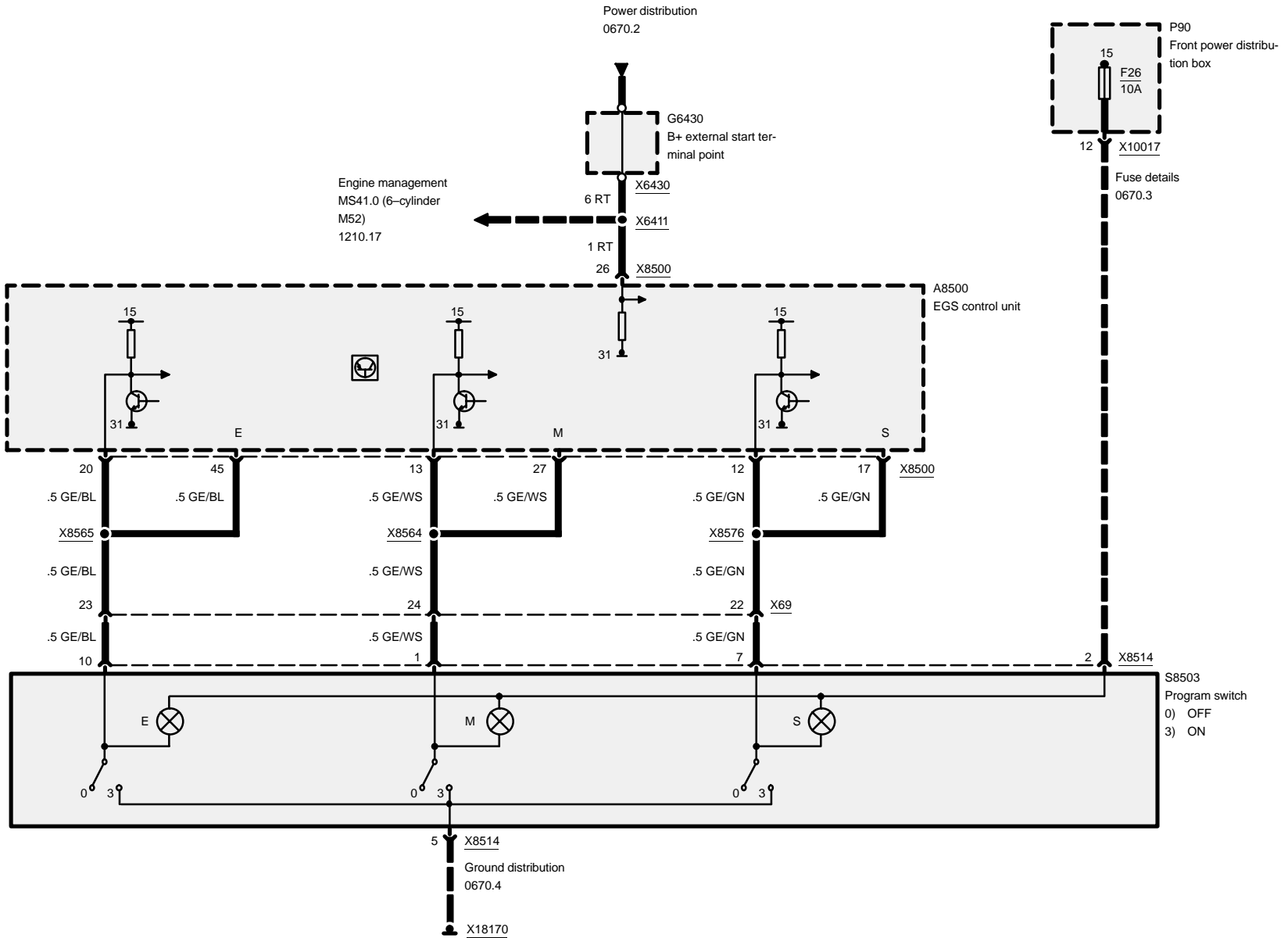


Z3

Electronic transmission control (EGS A4S 310R)

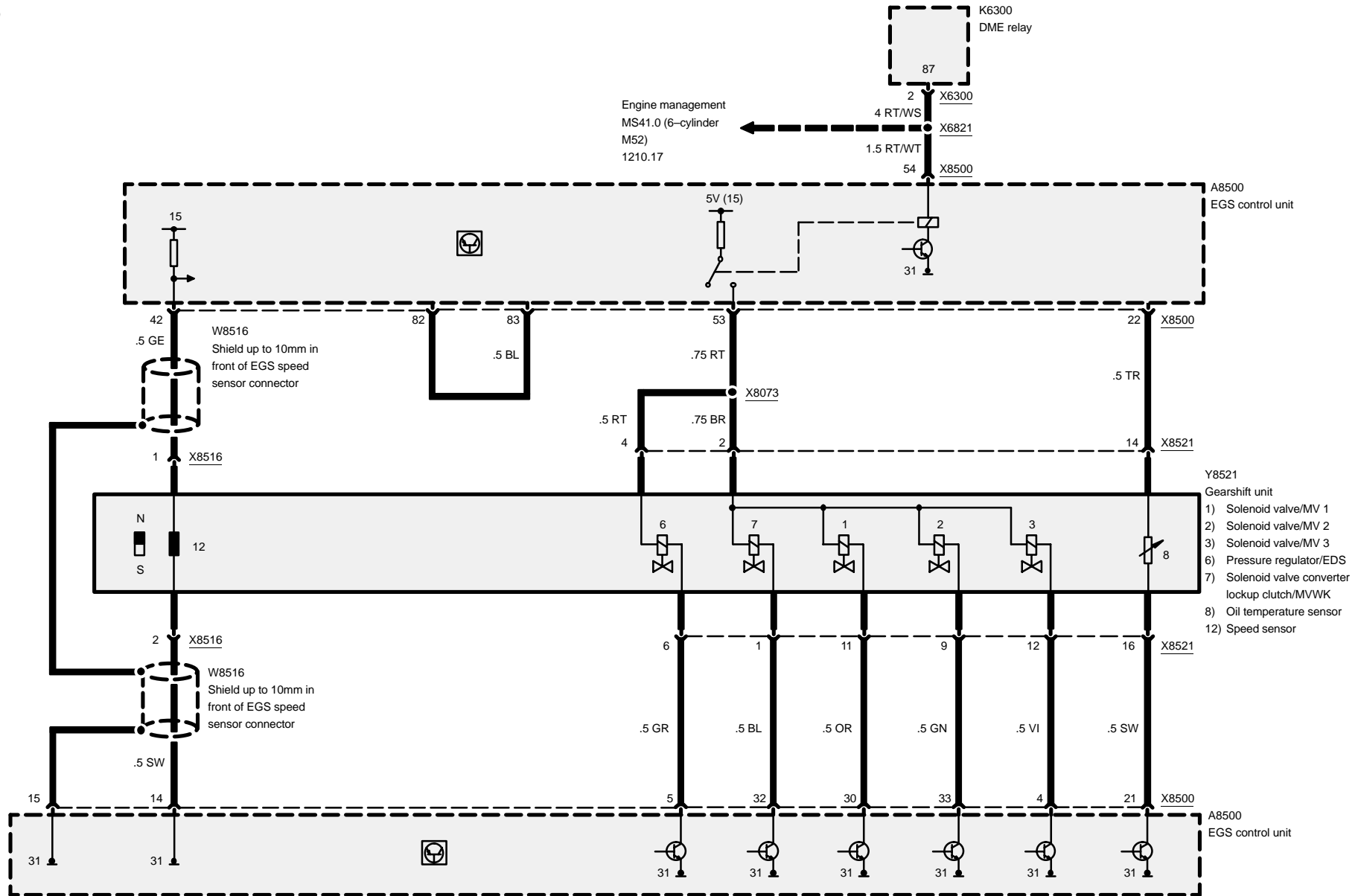
4-cylinder





Electronic transmission control (EGS A4S 310R)

6-cylinder

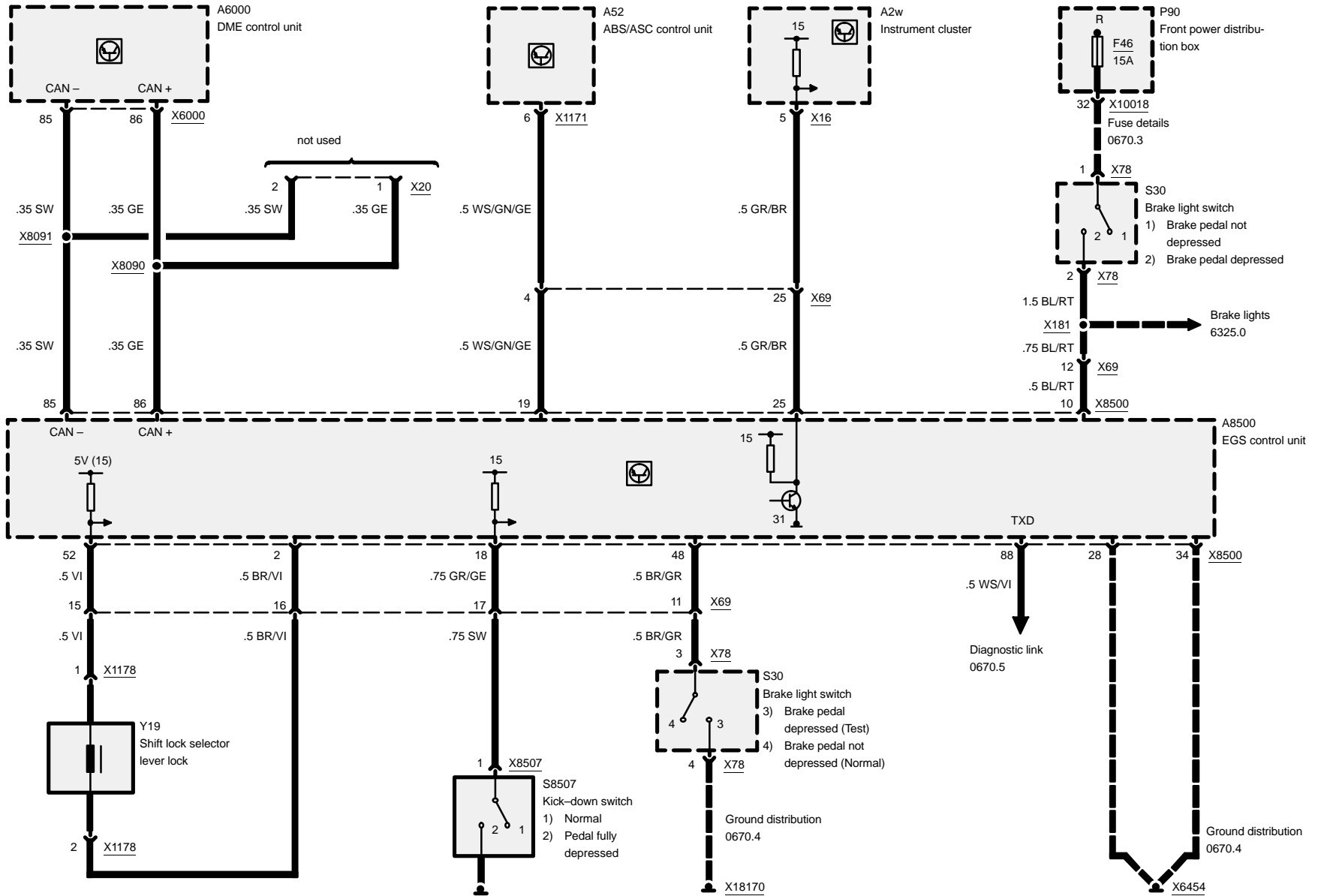




Z3

Electronic transmission control (EGS A4S 310R)

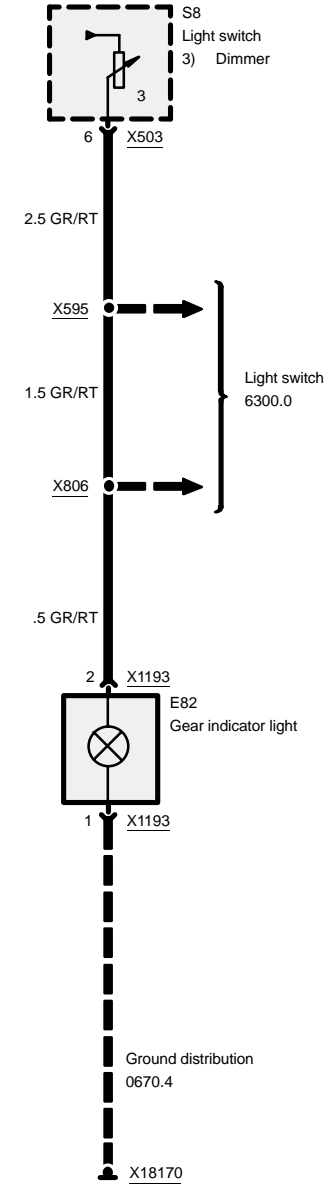
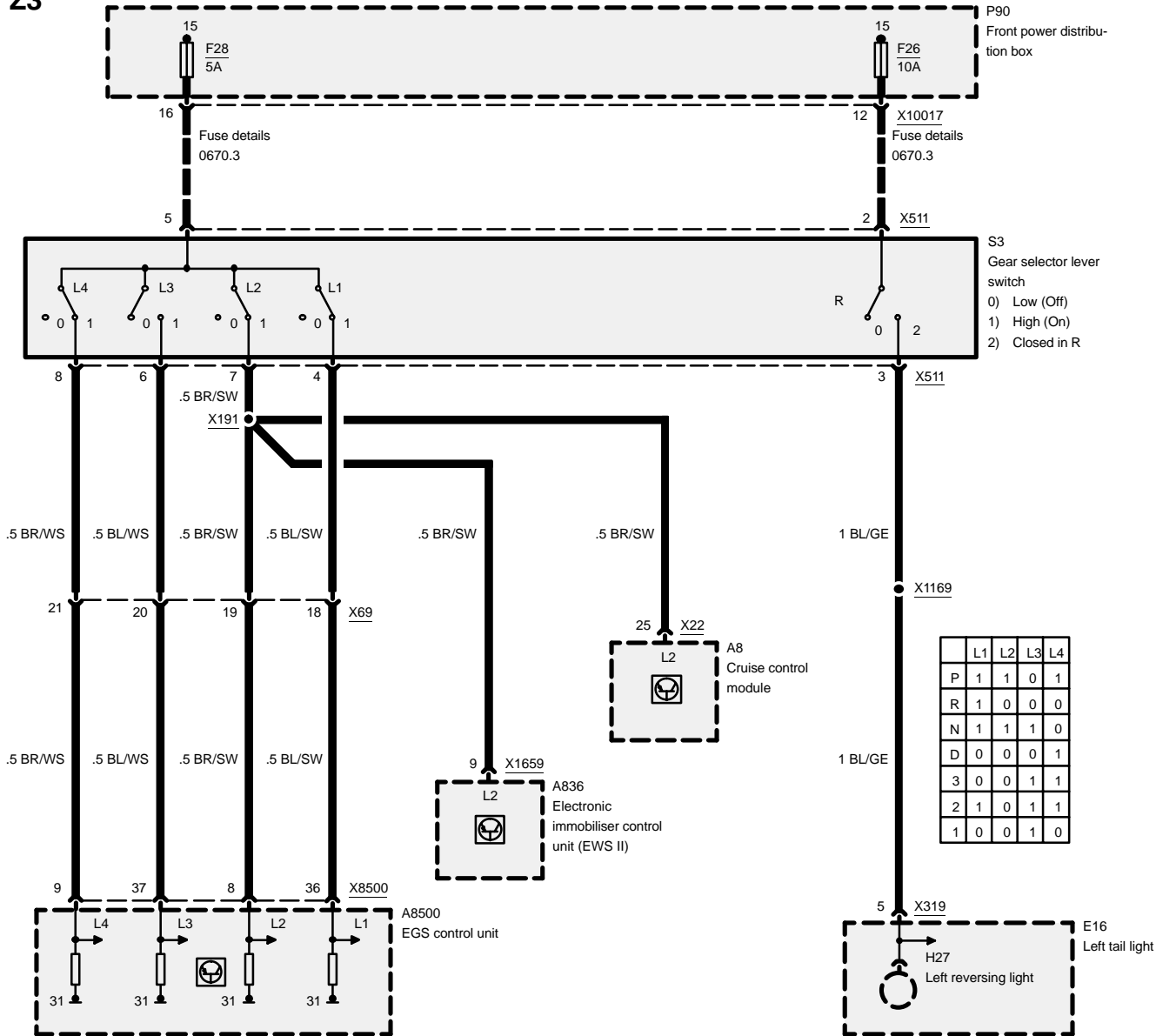
6-cylinder

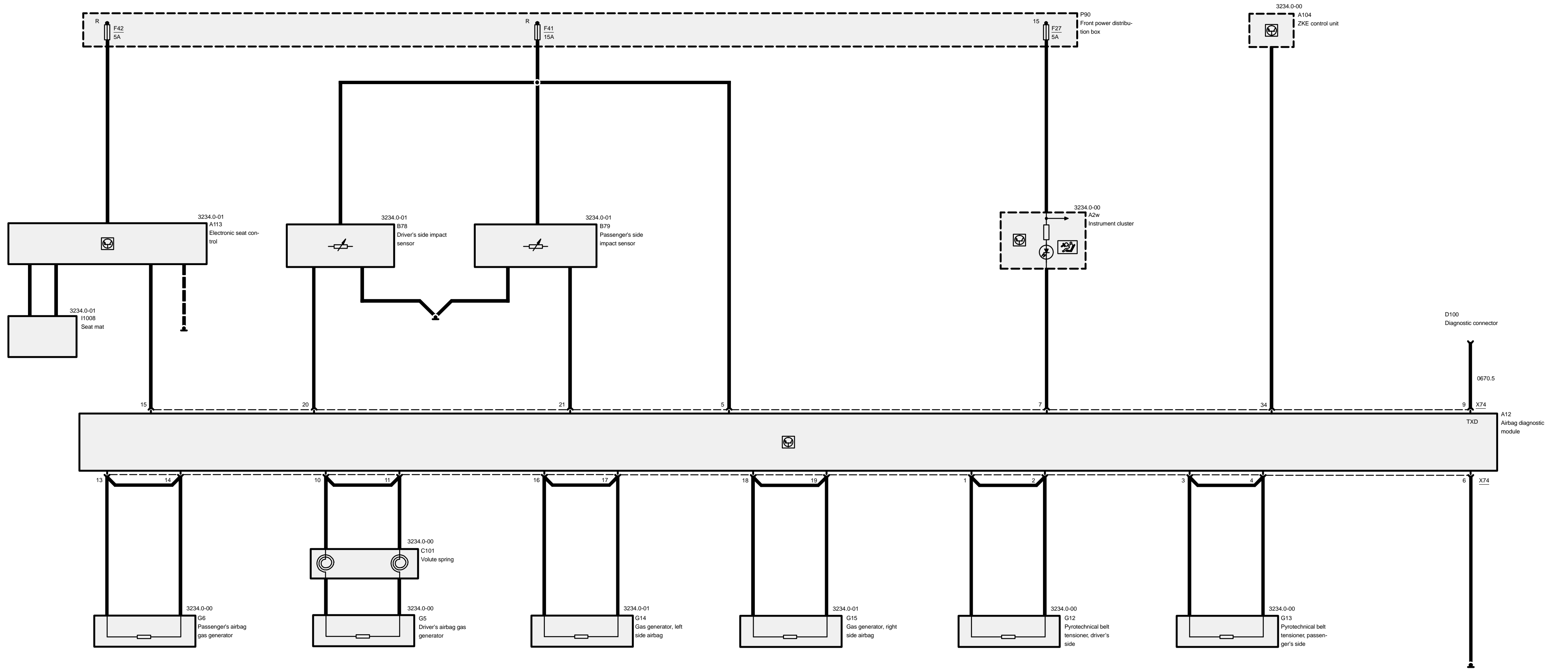




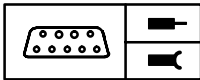
Electronic transmission control (EGS A4S 310R)

Z3





Z3



Pin assignments

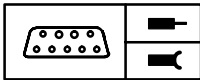
X74

Pin	Type	Description/Function	Connection
2	A	Pyrotechnical belt tensioner	Pyrotechnical belt tensioner, driver's side
3	A	Pyrotechnical belt tensioner	Pyrotechnical belt tensioner, driver's side
4	A	Pyrotechnical belt tensioner	Pyrotechnical belt tensioner, front passenger's side
5	A	Pyrotechnical belt tensioner	Pyrotechnical belt tensioner, front passenger's side
6	E	Supply voltage	Power distribution box, fuse 41
7	M	Ground	Ground connection
8	A	Airbag warning lamp	Instrument cluster
9		Not used	
10	E/A	TxD diagnostic link	Diagnostic connector
11	A	Airbag (+)	Inflator assembly, driver's airbag
12	A	Airbag (-)	Inflator assembly, driver's airbag
13		Not used	
14	A	Airbag (+)	Airbag inflator assembly, front passenger's side
15	A	Airbag (-)	Airbag inflator assembly, front passenger's side
16	E	Seat occupancy electronics	Seat occupancy electronics
17	A	Inflator assembly	Inflator assembly, left side airbag
18	A	Inflator assembly	Inflator assembly, left side airbag
19	A	Inflator assembly	Inflator assembly, right side airbag
20	A	Inflator assembly	Inflator assembly, right side airbag
21	E	Impact sensor	Impact sensor, driver's side
22	E	Impact sensor	Impact sensor, front passenger's side
23		Not used	
24		Not used	
25		Not used	
26		Not used	
27		Not used	
28		Not used	
29		Not used	
30		Not used	
31		Not used	

E = Input, A = Output, M = Ground



Z3

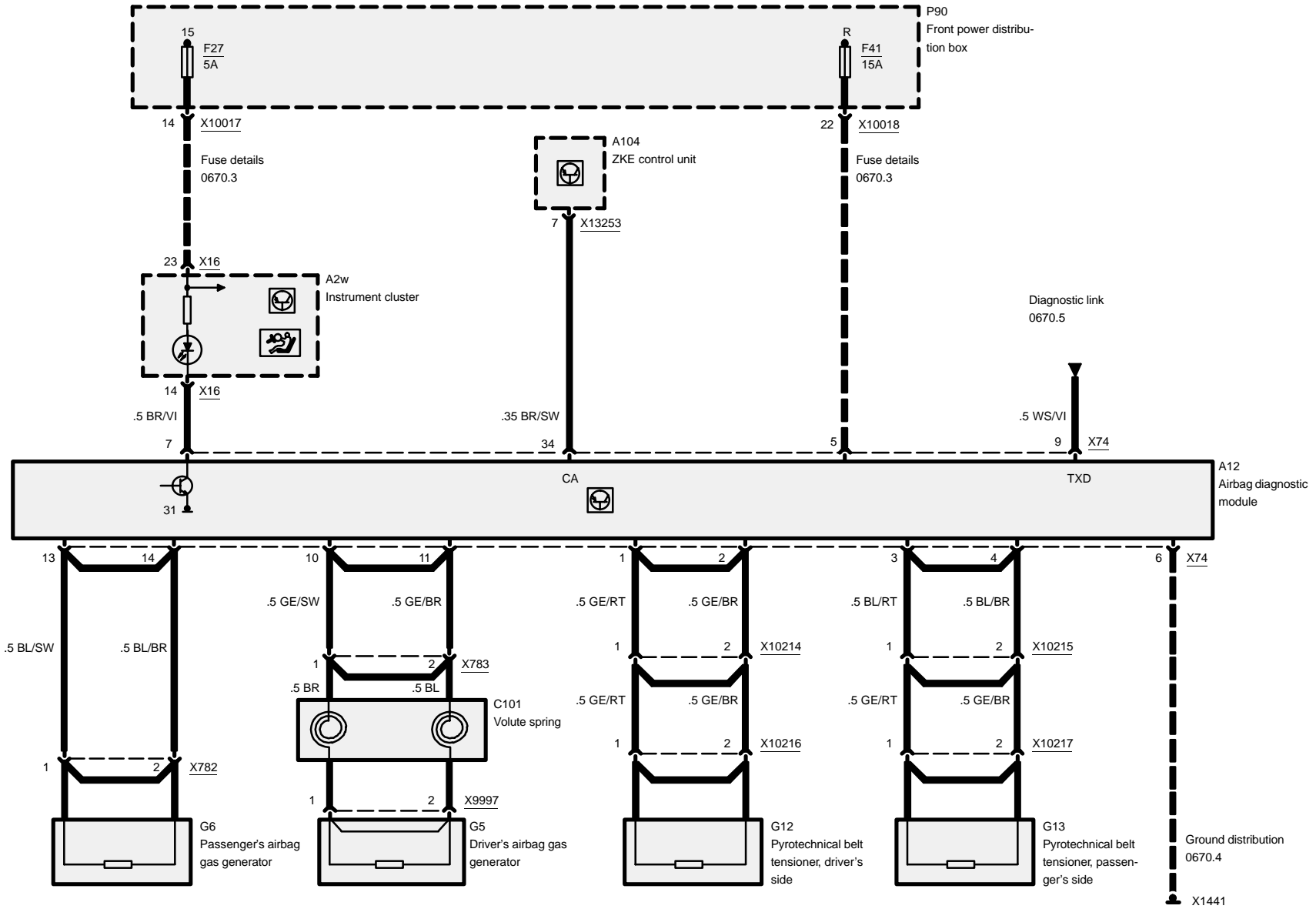
**Pin assignments**

Pin	Type	Description/Function	Connection
32		Not used	
33		Not used	
34		Not used	
35	A	Crash signal	ZKE control unit
36		Not used	
37		Not used	
38		Not used	
39		Not used	
40		Not used	
41		Not used	
42		Not used	
43		Not used	
44		Not used	
45		Not used	
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51		Not used	



Airbag (AB)

With pyrotechnical belt tensioner

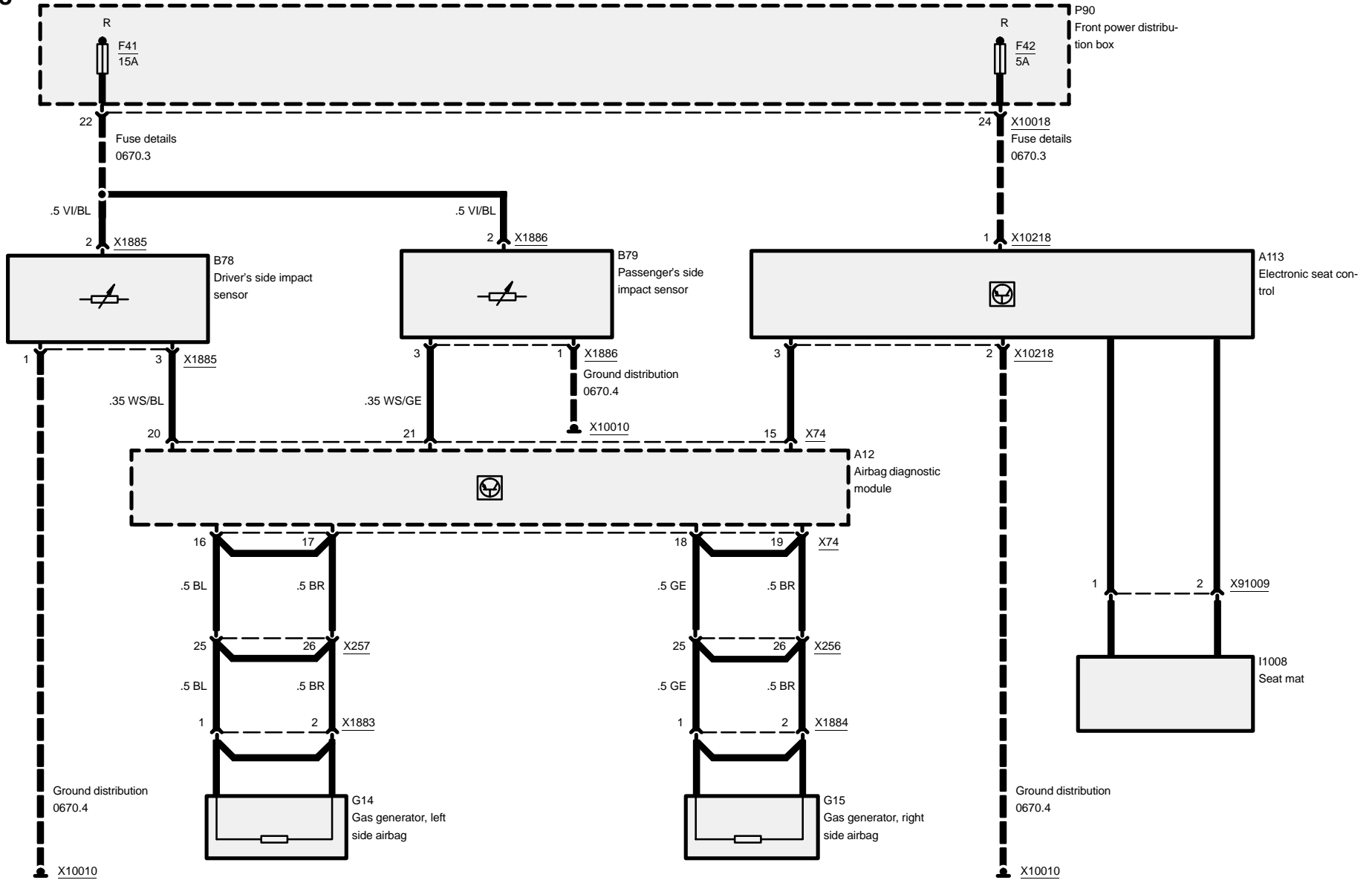


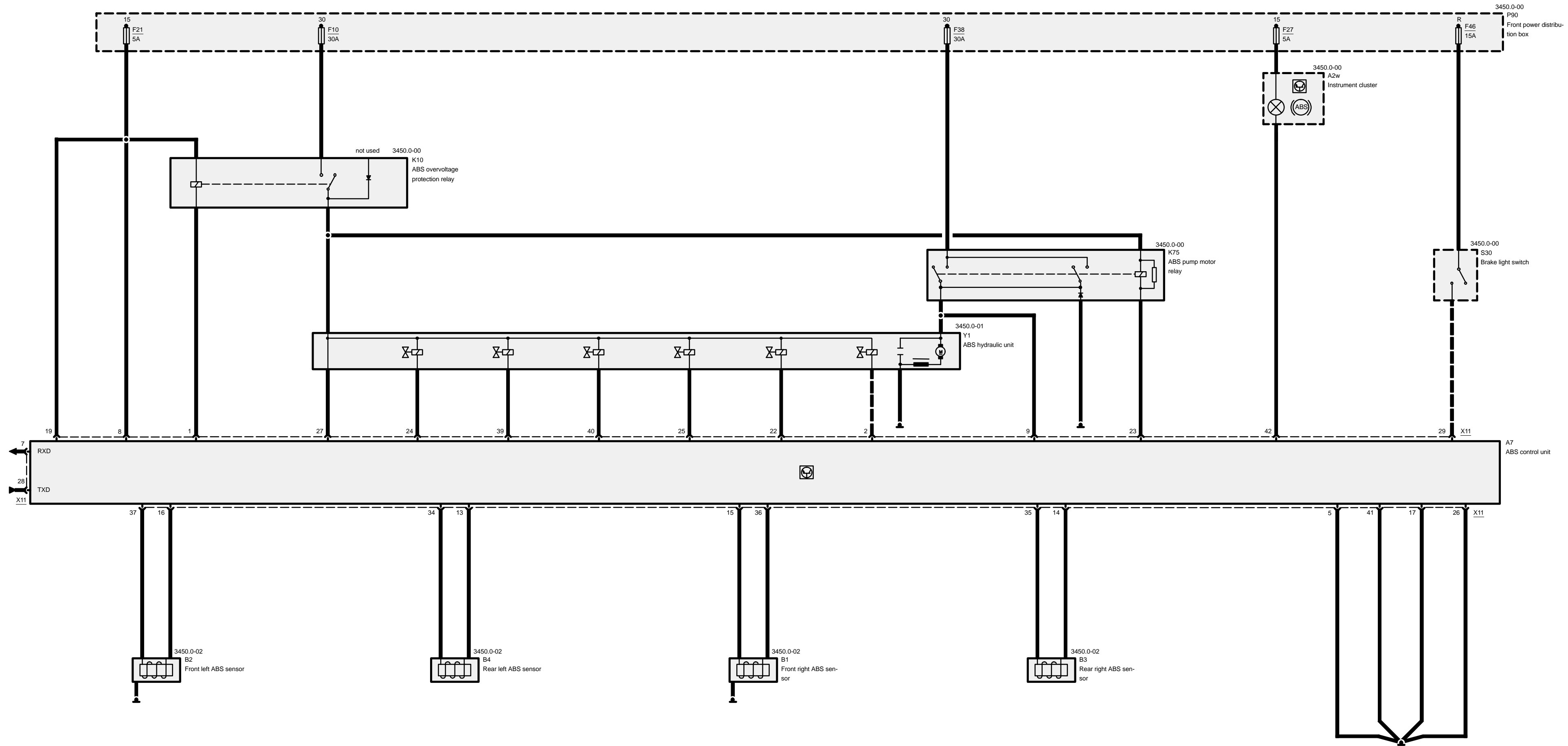


Airbag (AB)

Side airbag

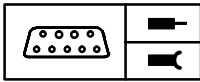
Z3







Z3

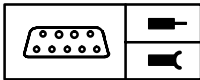
**Pin assignments****X11**

Pin	Type	Description/Function	Connection
52	A	ABS overvoltage protection relay	ABS overvoltage protection relay
53	A	Inlet valve drive, front left	ABS hydraulic unit
54		Not used	
55		Not used	
56	M	Component ground	Ground connection
57		Not used	
58	A	RxD diagnostic link	Diagnostic connector
59	E	Terminal 15	Fuse 21
60	E	Operating voltage	ABS pump motor relay
61		Not used	
62		Not used	
63		Not used	
64	A	Speed sensor ground, rear left	Speed sensor, rear left
65	A	Speed sensor ground, rear right	Speed sensor, rear right
66	E	Signal, speed sensor, front right	Speed sensor, front right
67	A	Speed sensor ground, front left	Speed sensor, front left
68	M	Component ground	Ground connection
69		Not used	
70	E	Terminal 15	Fuse 21
71		Not used	
72		Not used	
73	A	Inlet valve drive, front right	ABS hydraulic unit
74	A	Activation, pump relay	ABS pump motor relay
75	A	Activation, intake valve, rear axle	ABS hydraulic unit
76	A	Outlet valve drive, front left	ABS hydraulic unit
77	M	Component ground	Ground connection
78	E	Voltage monitor	ABS hydraulic unit
79	E/A	TxD diagnostic link	Diagnostic connector
80	E	Terminal 54	Brake light switch
81		Not used	
82		Not used	
83		Not used	
84		Not used	

E = Input, A = Output, M = Ground



Z3

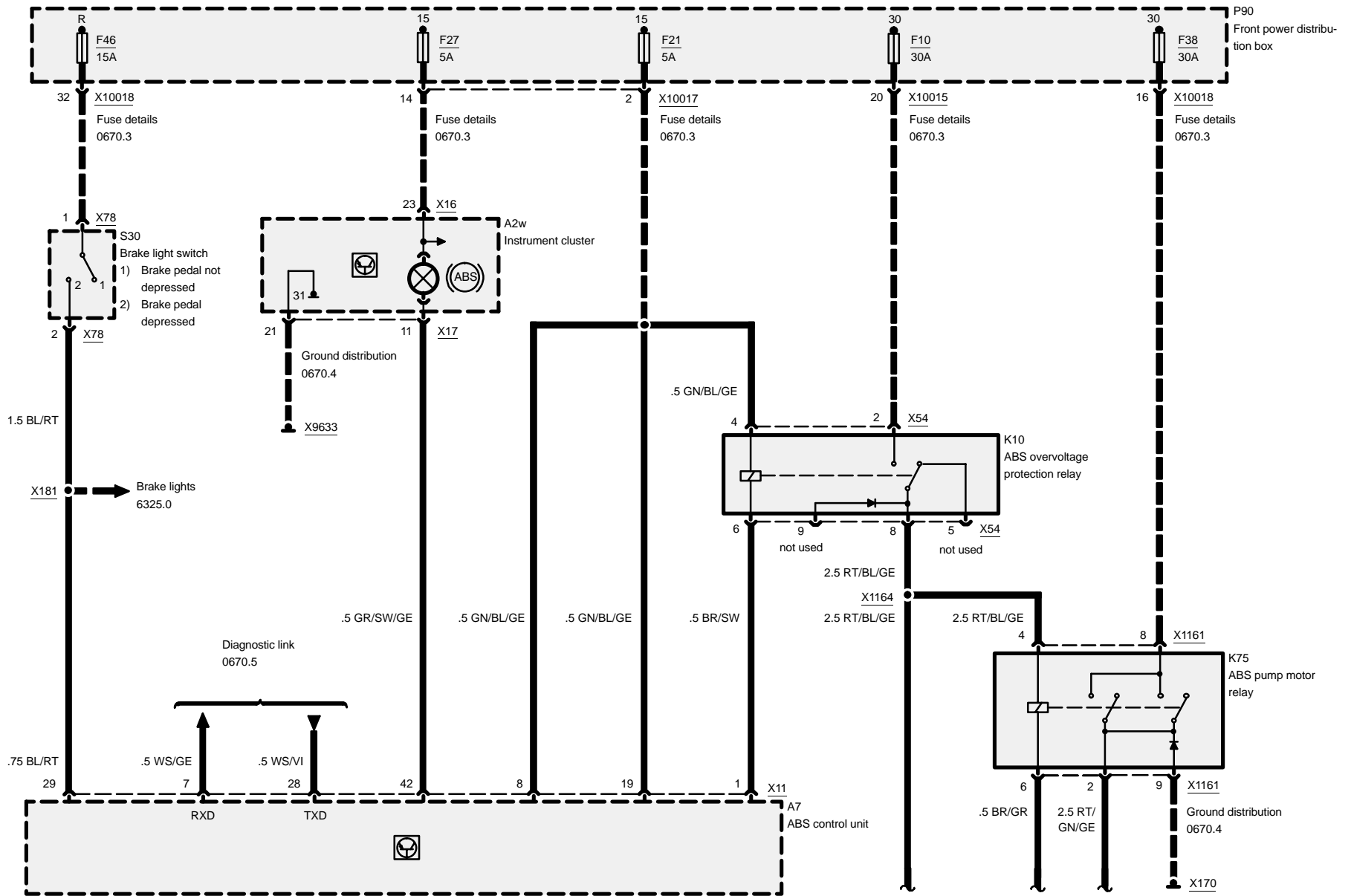
**Pin assignments**

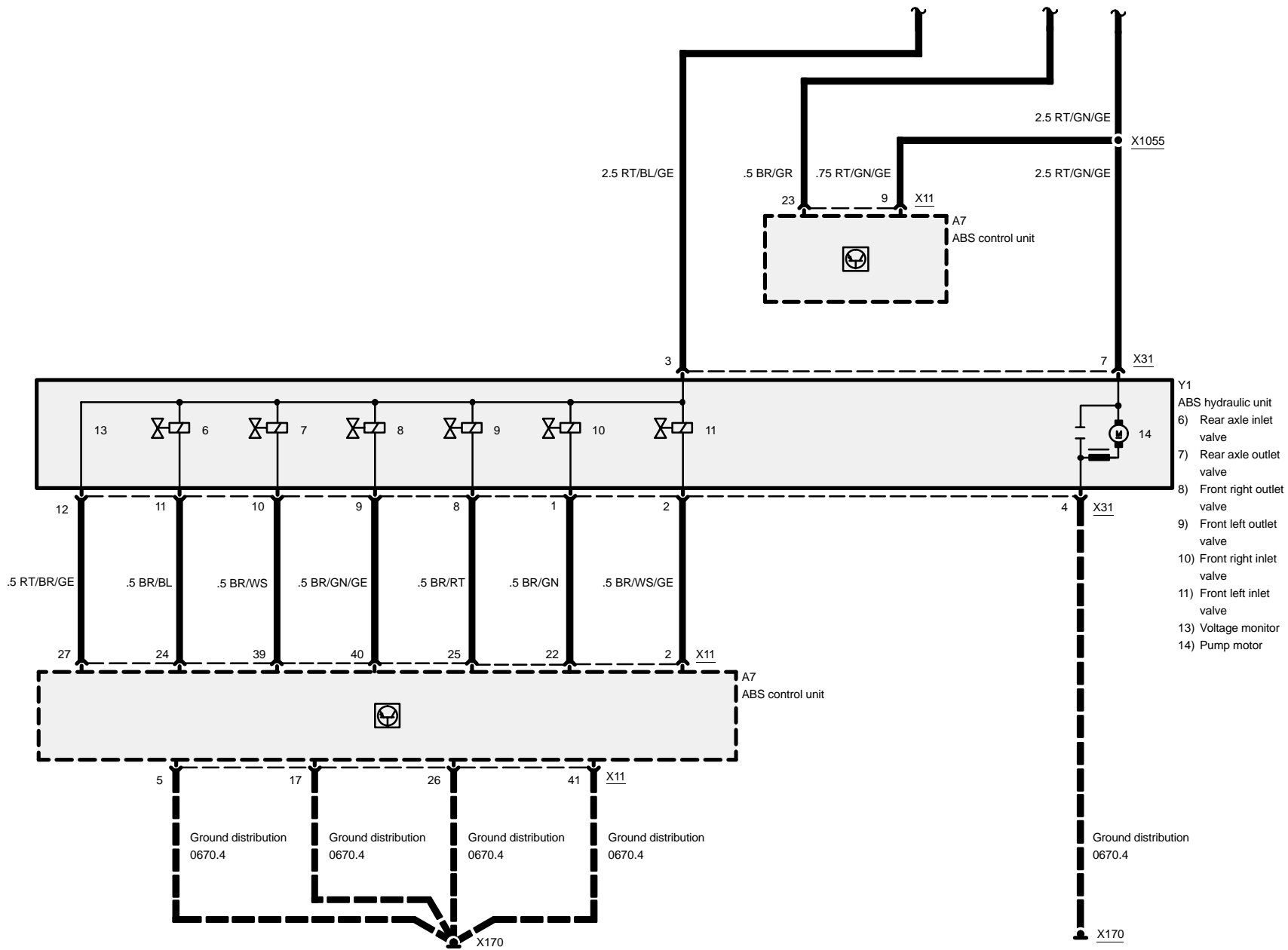
Pin	Type	Description/Function	Connection
85	E	Signal, speed sensor, rear left	Speed sensor, rear left
86	E	Signal, speed sensor, rear right	Speed sensor, rear right
87	A	Speed sensor ground, front right	Speed sensor, front right
88	E	Signal, speed sensor, front left	Speed sensor, front left
89		Not used	
90	A	Activation, rear outlet valve	ABS hydraulic unit
91	A	Inlet valve drive, front right	ABS hydraulic unit
92	M	Component ground	Ground connection
93	A	Activation, ABS warning lamp	Instrument cluster



Antilock brake system (ABS)

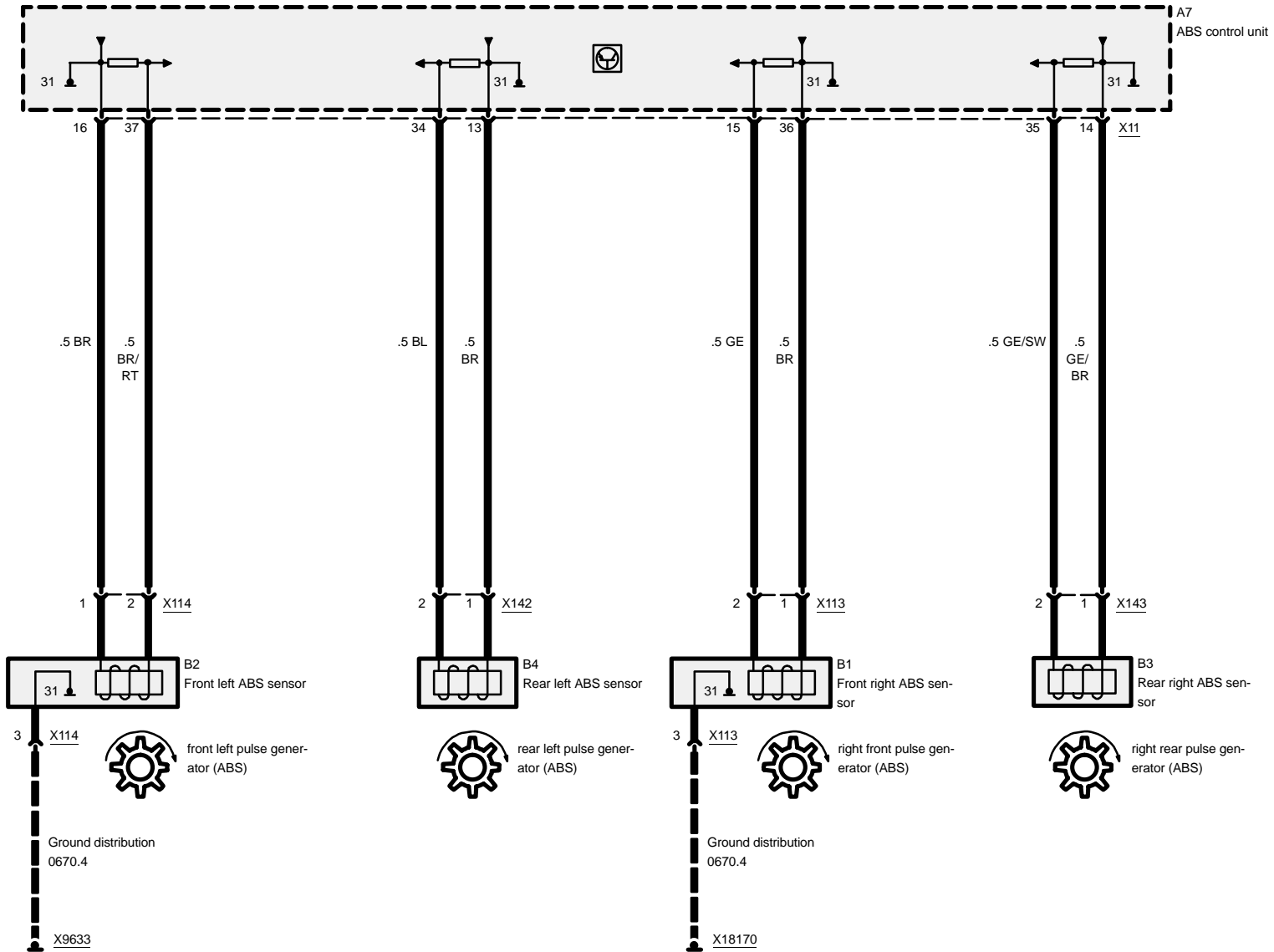
Z3



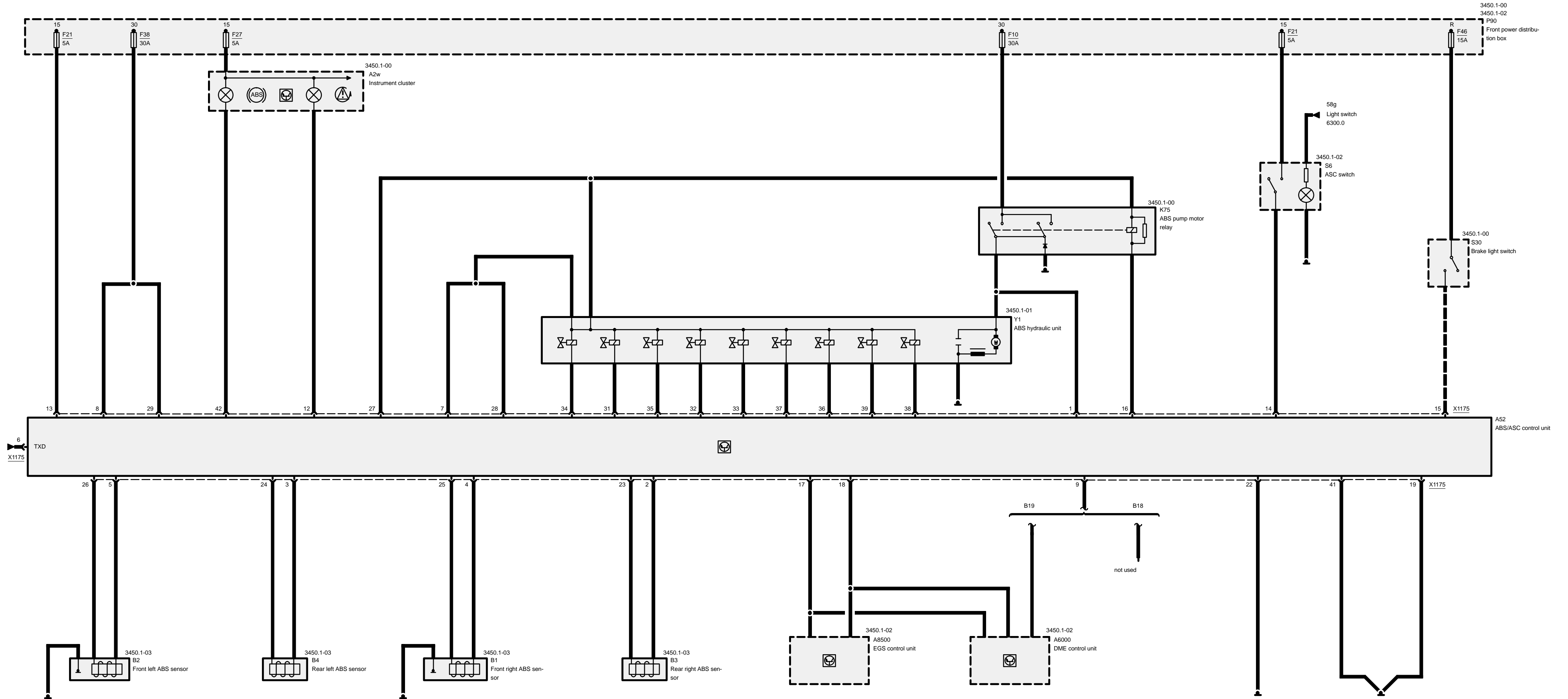


- Y1
ABS hydraulic unit
- 6) Rear axle inlet valve
- 7) Rear axle outlet valve
- 8) Front right outlet valve
- 9) Front left outlet valve
- 10) Front right inlet valve
- 11) Front left inlet valve
- 13) Voltage monitor
- 14) Pump motor

Antilock brake system (ABS)

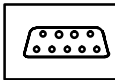


4-cylinder Earlier production





Z3

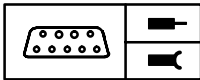
**Pin assignments (4-cylinder earlier production)****X1175**

Pin	Type	Description/Function	Connection
94	E	Pump signal	ABS pump motor relay
95	E	Signal, speed sensor, rear right	Speed sensor, rear right
96	E	Signal, speed sensor, rear left	Speed sensor, rear left
97	E	Signal, speed sensor, front right	Speed sensor, front right
98	E	Signal, speed sensor, front left	Speed sensor, front left
99	E/A	TxD diagnostic link	Diagnostic connector
100	A	ABS signal	ABS hydraulic unit
101	E	Terminal 30	Fuse 38
102	A	Speed signal, rear right	DME control unit (B19)
103		Not used	
104		Not used	
105	A	ASC signal	Instrument cluster
106	E	Terminal 15	Fuse 21
107	E	ASC ON signal	ASC switch
108	E	Terminal 54	Brake light switch
109	A	ABS pump motor relay	ABS pump motor relay
110	E/A	CAN-HIGH	EGS/DME control unit
111	E/A	CAN-LOW	EGS/DME control unit
112	M	Component ground	Ground connection
113		Not used	
114		Not used	
115	M	Component ground	Ground connection
116	A	Speed sensor ground, rear right	Speed sensor, rear right
117	A	Speed sensor ground, rear left	Speed sensor, rear left
118	A	Speed sensor ground, front right	Speed sensor, front right
119	A	Speed sensor ground, front left	Speed sensor, front left
120	A	ABS signal	ABS pump motor relay
121	A	ABS signal	ABS hydraulic unit
122	E	Terminal 30	Fuse 38
123		Not used	
124	A	Separating valve	ABS hydraulic unit
125	A	Actuation, rear left inlet valve	ABS hydraulic unit
126	A	Activation, rear left outlet valve	ABS hydraulic unit

E = Input, A = Output, M = Ground



Z3

**Pin assignments (4-cylinder earlier production)**

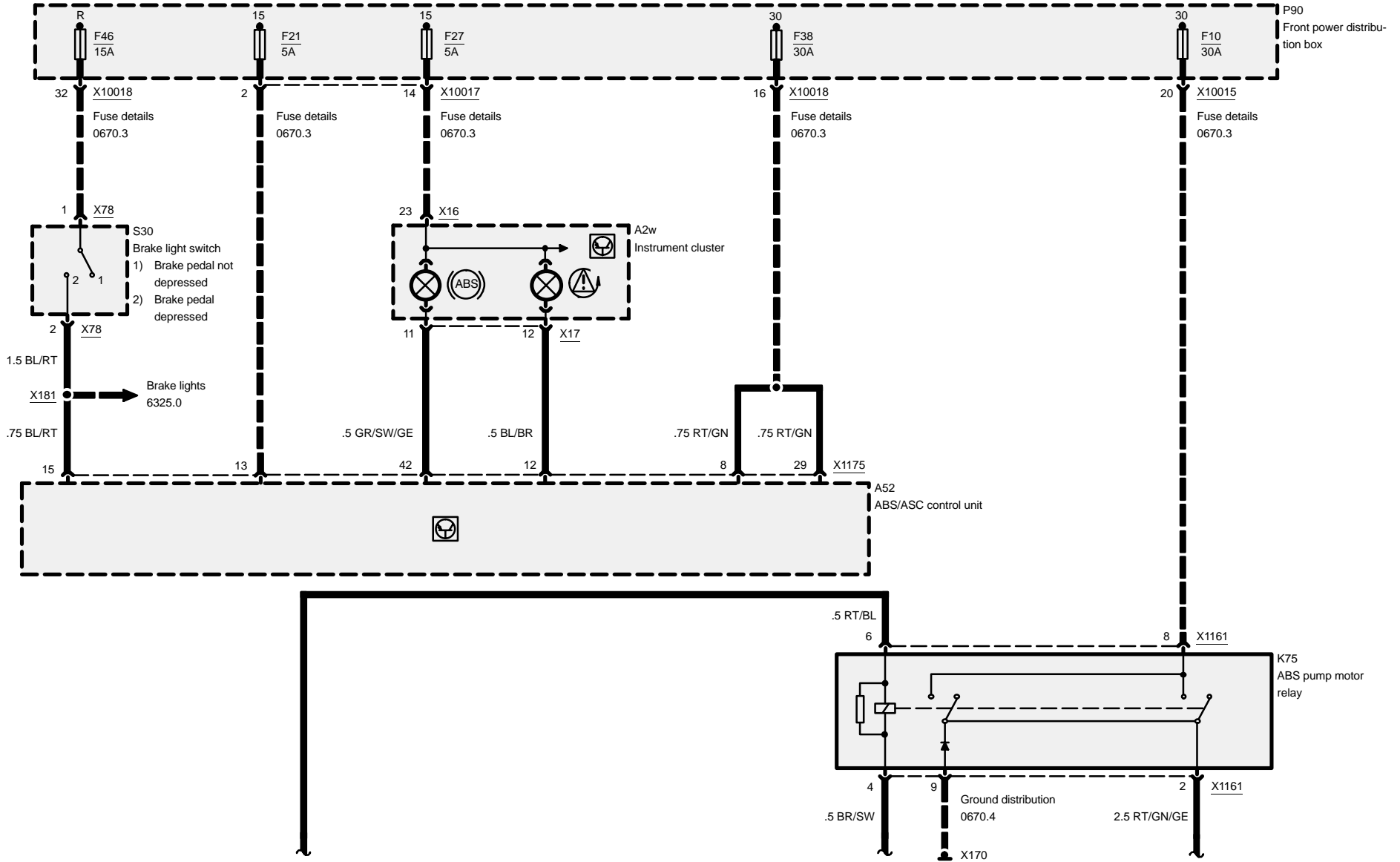
Pin	Type	Description/Function	Connection
127	A	Actuation, rear right inlet valve	ABS hydraulic unit
128	A	Actuation, rear right outlet valve	ABS hydraulic unit
129	A	Outlet valve drive, front left	ABS hydraulic unit
130	A	Actuation, front right outlet valve	ABS hydraulic unit
131	A	Inlet valve drive, front left	ABS hydraulic unit
132	A	Inlet valve drive, front right	ABS hydraulic unit
133		Not used	
134	M	Component ground	Ground connection
135	A	ABS signal	Instrument cluster

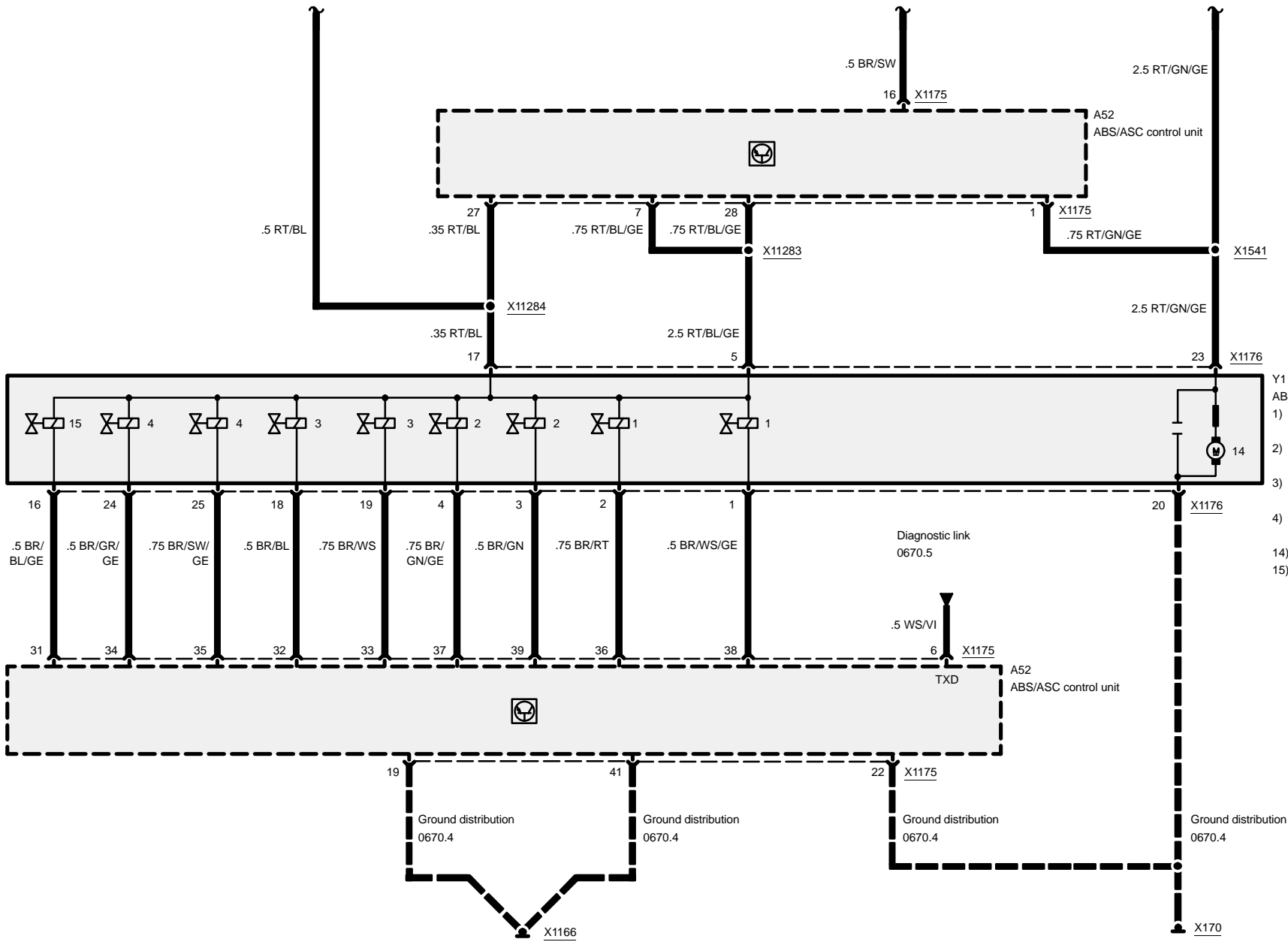


Automatic stability control (ASC)

4-cylinder Earlier production

Z3





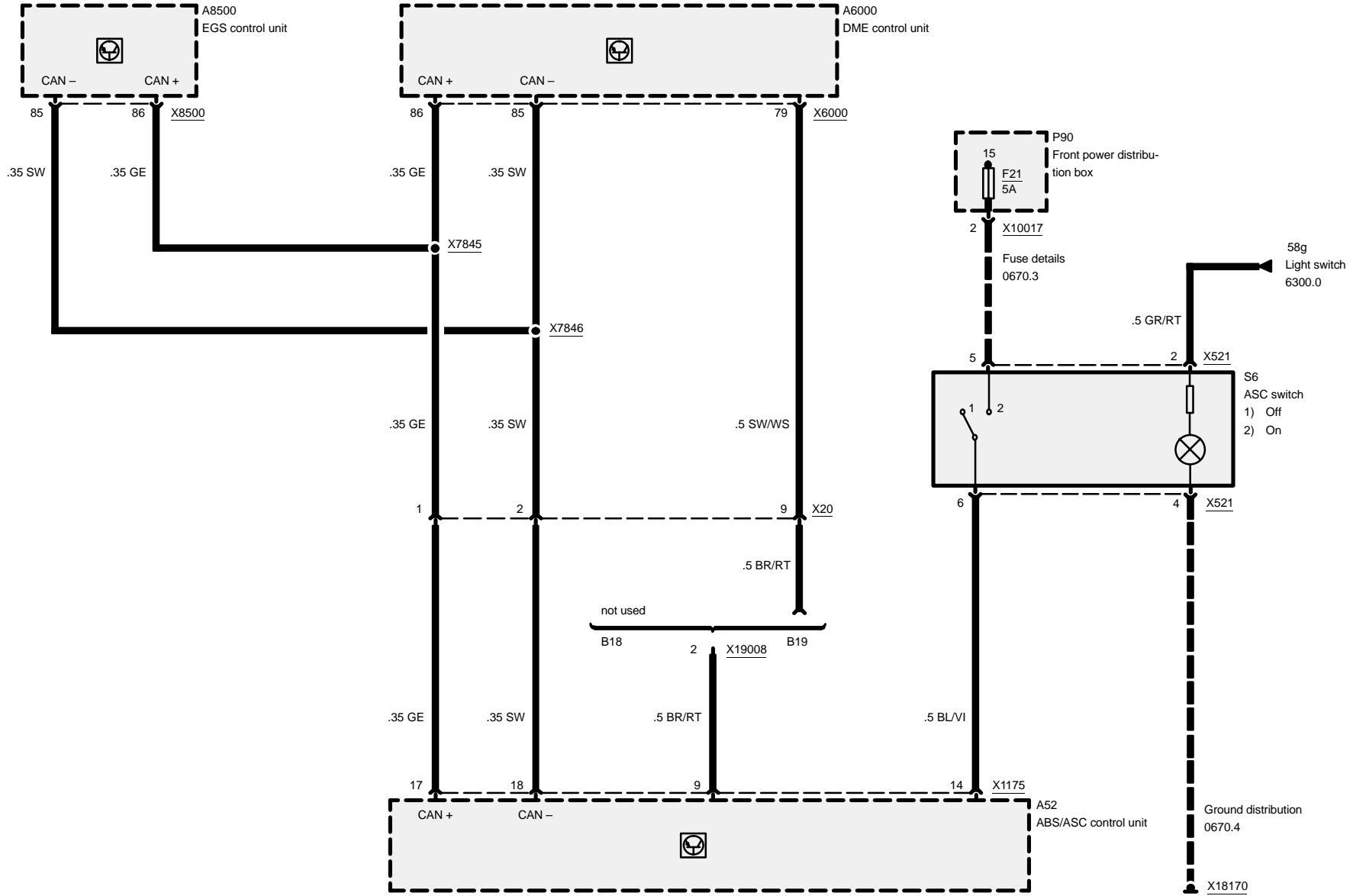
- Y1
ABS hydraulic unit
- 1) Front left solenoid valve
 - 2) Front right solenoid valve
 - 3) Rear left solenoid valve
 - 4) Rear right solenoid valve
 - 14) Pump motor
 - 15) Separating valve

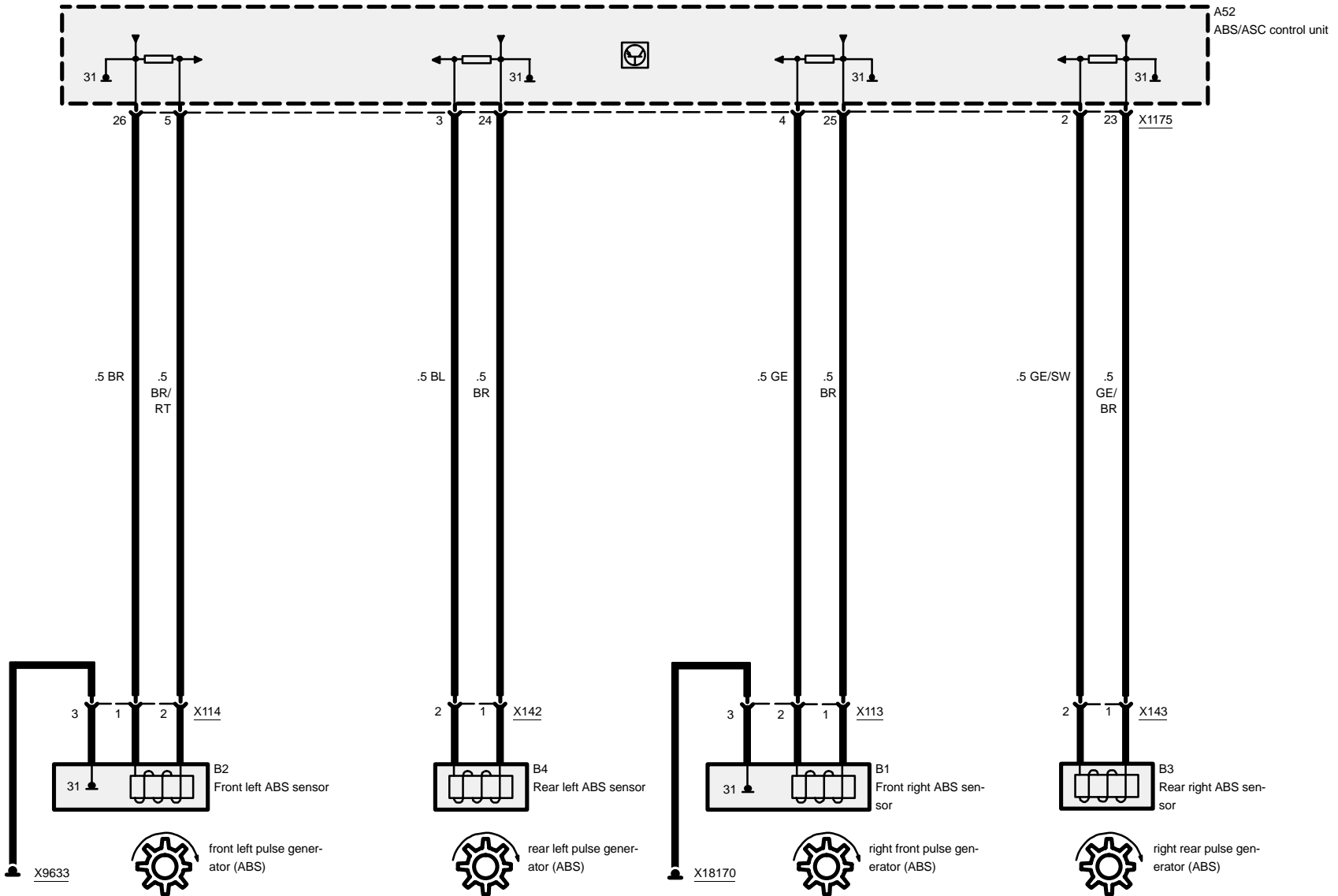


Automatic stability control (ASC)

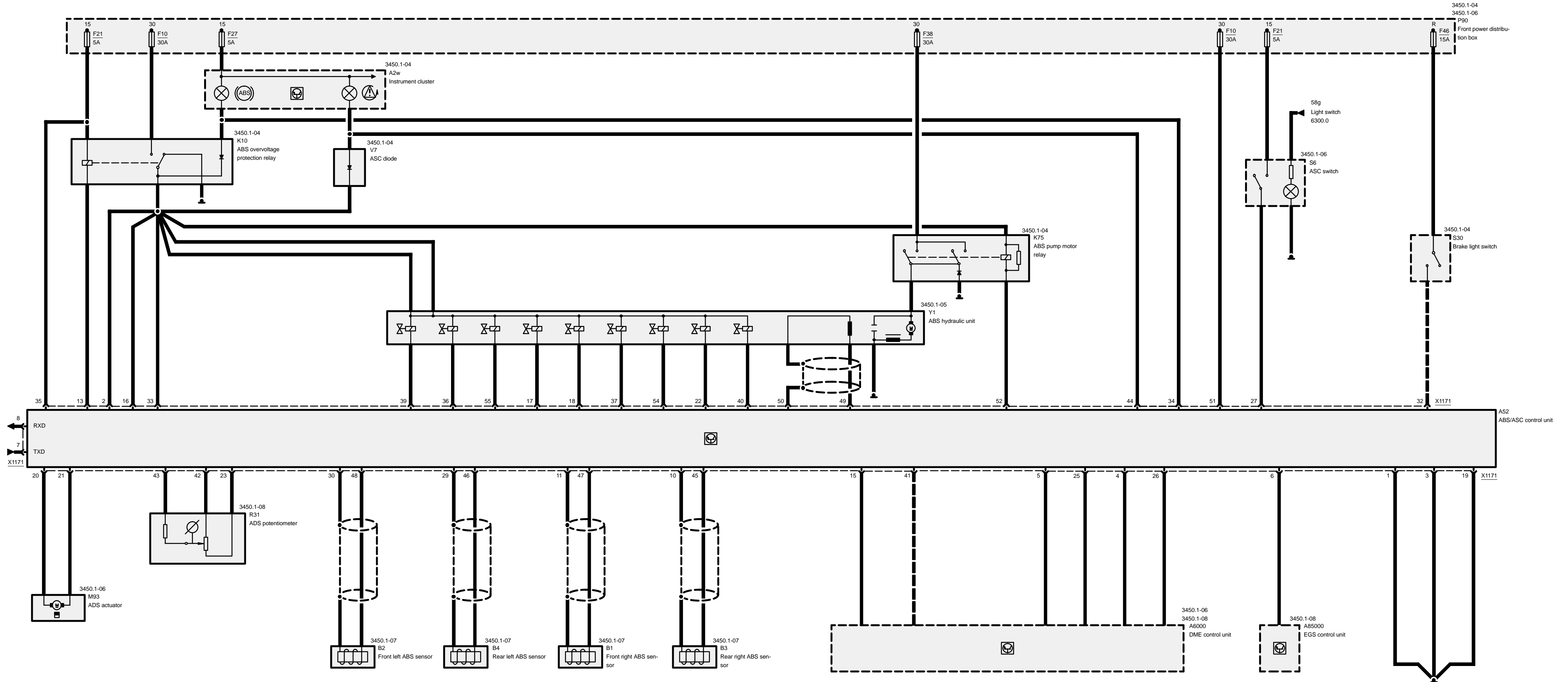
4-cylinder Earlier production

Z3

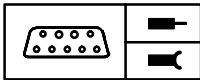




6-cylinder



Z3



Pin assignments (6-cylinder)

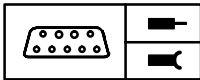
X1171

Pin	Type	Description/Function	Connection
1	M	Component ground	Ground connection
2	E	Operating voltage	ABS overvoltage protection relay
3	M	Component ground	Ground connection
4	E	Signal, traction control system	DME control unit
5	A	EML signal	DME control unit
6	A	Transmission intervention	EGS control unit
7	E/A	TxD diagnostic link	Diagnostic connector
8	A	RxD diagnostic link	Diagnostic connector
9		Not used	
10	A	Speed sensor ground, rear right	Speed sensor, rear right
11	A	Speed sensor ground, front right	Speed sensor, front right
12		Not used	
13	A	ABS overvoltage protection relay	ABS overvoltage protection relay
14		Not used	
15	A	Speed signal, rear right	DME control unit
16	E	Operating voltage	ABS overvoltage protection relay
17	A	Actuation, rear left inlet valve	ABS hydraulic unit
18	A	Activation, rear left outlet valve	ABS hydraulic unit
19	M	Component ground	Ground connection
20	A	ADS actuator (-)	ADS actuator
21	A	ADS actuator (+)	ADS actuator
22	A	Inlet valve drive, front right	ABS hydraulic unit
23	E	ASC throttle valve potentiometer	ASC throttle valve potentiometer
24		Not used	
25	E	Signal, engine drag torque control	DME control unit
26	A	Throttle valve position	DME control unit
27	E	ASC switch signal	ASC switch
28		Not used	
29	A	Speed sensor ground, rear left	Speed sensor, rear left
30	A	Speed sensor ground, front left	Speed sensor, front left
31		Not used	
32	E	Terminal 54	Brake light switch
33	E	Operating voltage	ABS overvoltage protection relay

E = Input, A = Output, M = Ground



Z3

**Pin assignments (6-cylinder)**

Pin	Type	Description/Function	Connection
34	A	Activation, ABS warning lamp	Instrument cluster
35	E	Terminal 15	Fuse 21
36	A	Separating valve	ABS hydraulic unit
37	A	Actuation, front right outlet valve	ABS hydraulic unit
38		Not used	
39	A	Actuation, rear left inlet valve	ABS hydraulic unit
40	A	Inlet valve drive, front left	ABS hydraulic unit
41	E	Vehicle speed signal	DME control unit
42	E	ASC throttle valve potentiometer	ASC throttle valve potentiometer
43	E	ASC throttle valve potentiometer	ASC throttle valve potentiometer
44	A	ASC warning lamp drive	Instrument cluster
45	E	Signal, speed sensor, rear right	Speed sensor, rear right
46	E	Signal, speed sensor, rear left	Speed sensor, rear left
47	E	Signal, speed sensor, front right	Speed sensor, front right
48	E	Signal, speed sensor, front left	Speed sensor, front left
49	E	Signal, pump motor sensor	ABS hydraulic unit
50	E	Shield, pump motor sensor	ABS hydraulic unit
51	E	Voltage supply	Fuse 10
52	A	ABS pump motor relay	ABS pump motor relay
53		Not used	
54	A	Outlet valve drive, front left	ABS hydraulic unit
55	A	Actuation, rear right outlet valve	ABS hydraulic unit

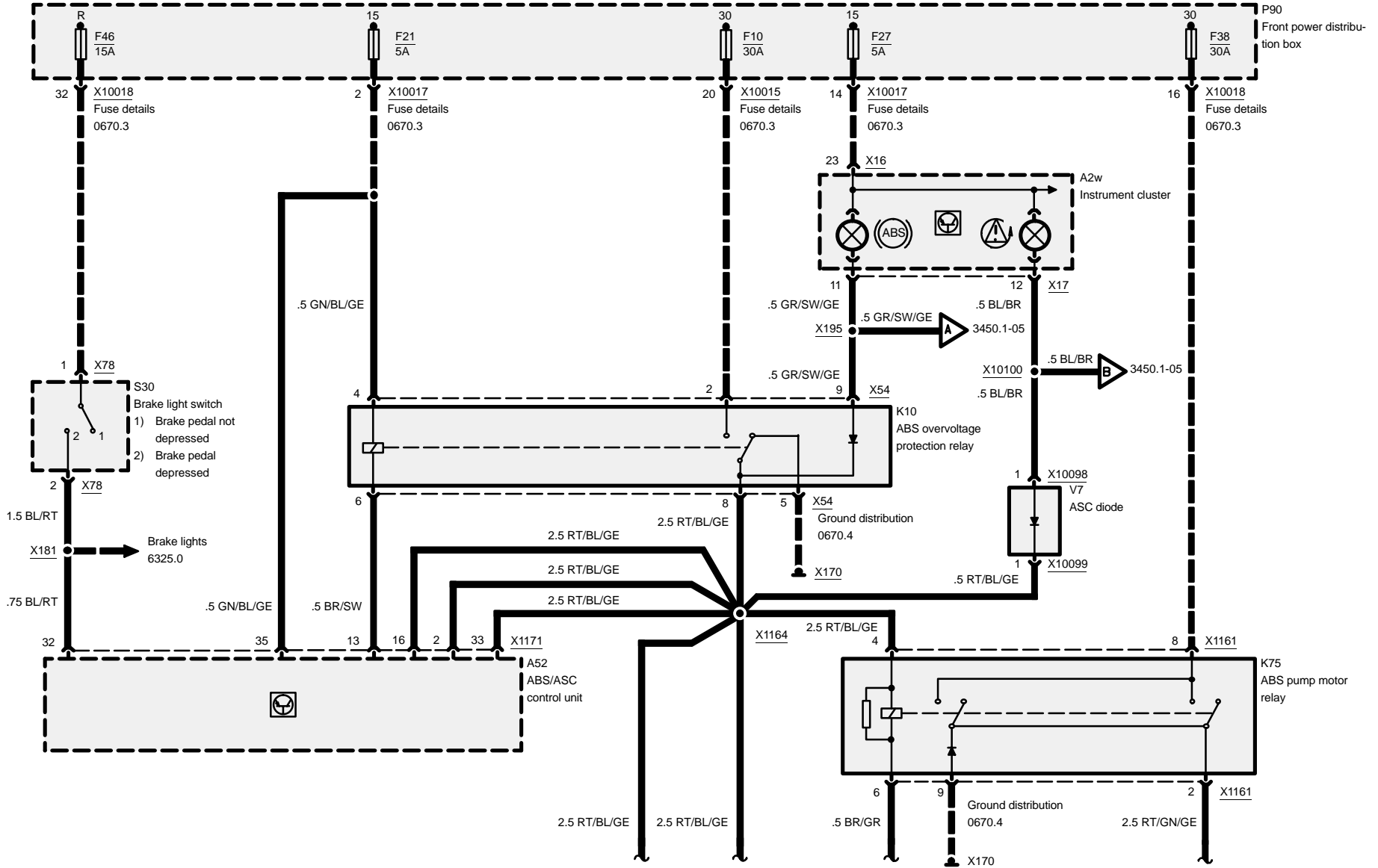
E = Input, A = Output, M = Ground

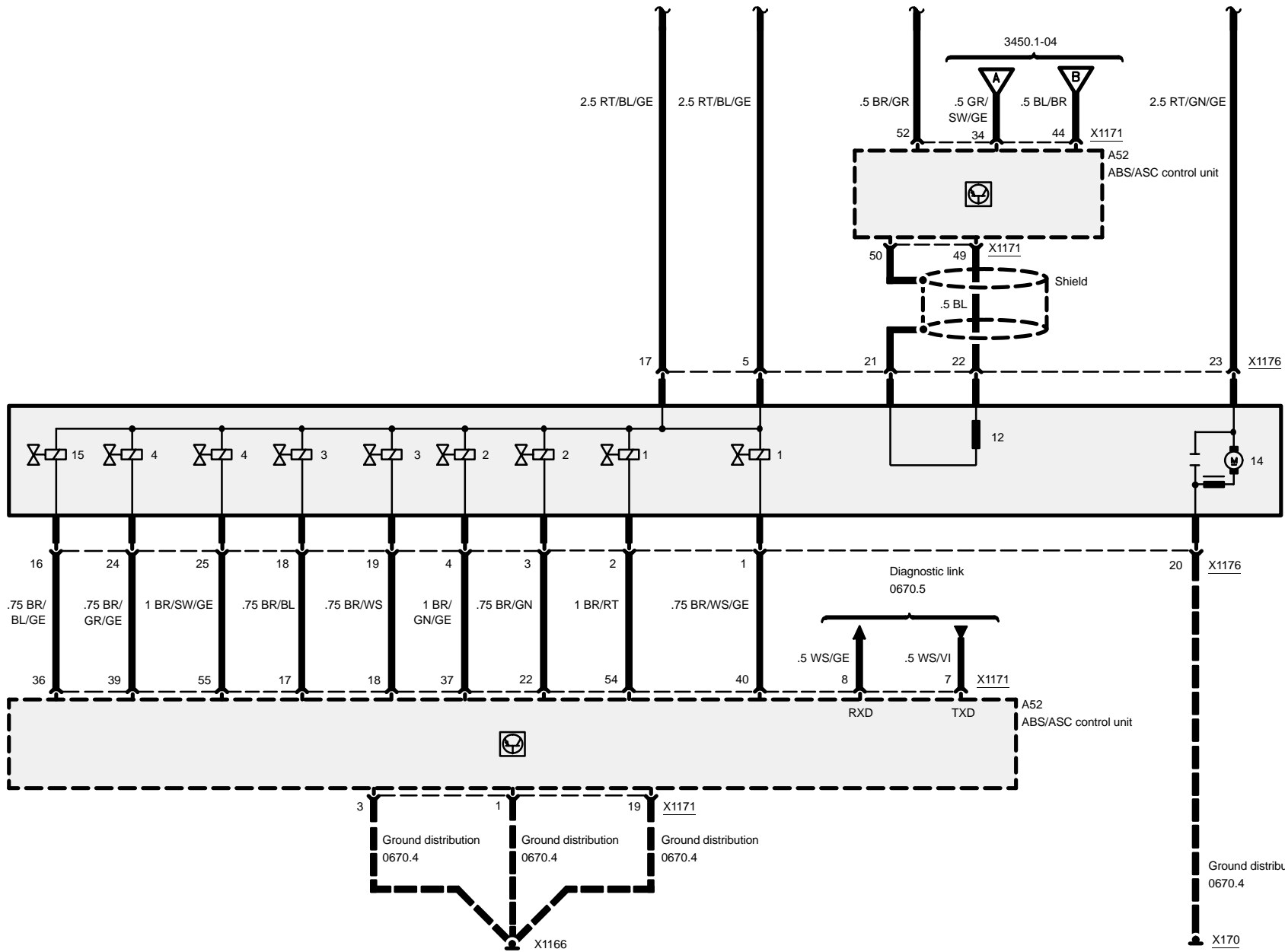


Automatic stability control (ASC)

B28

Z3



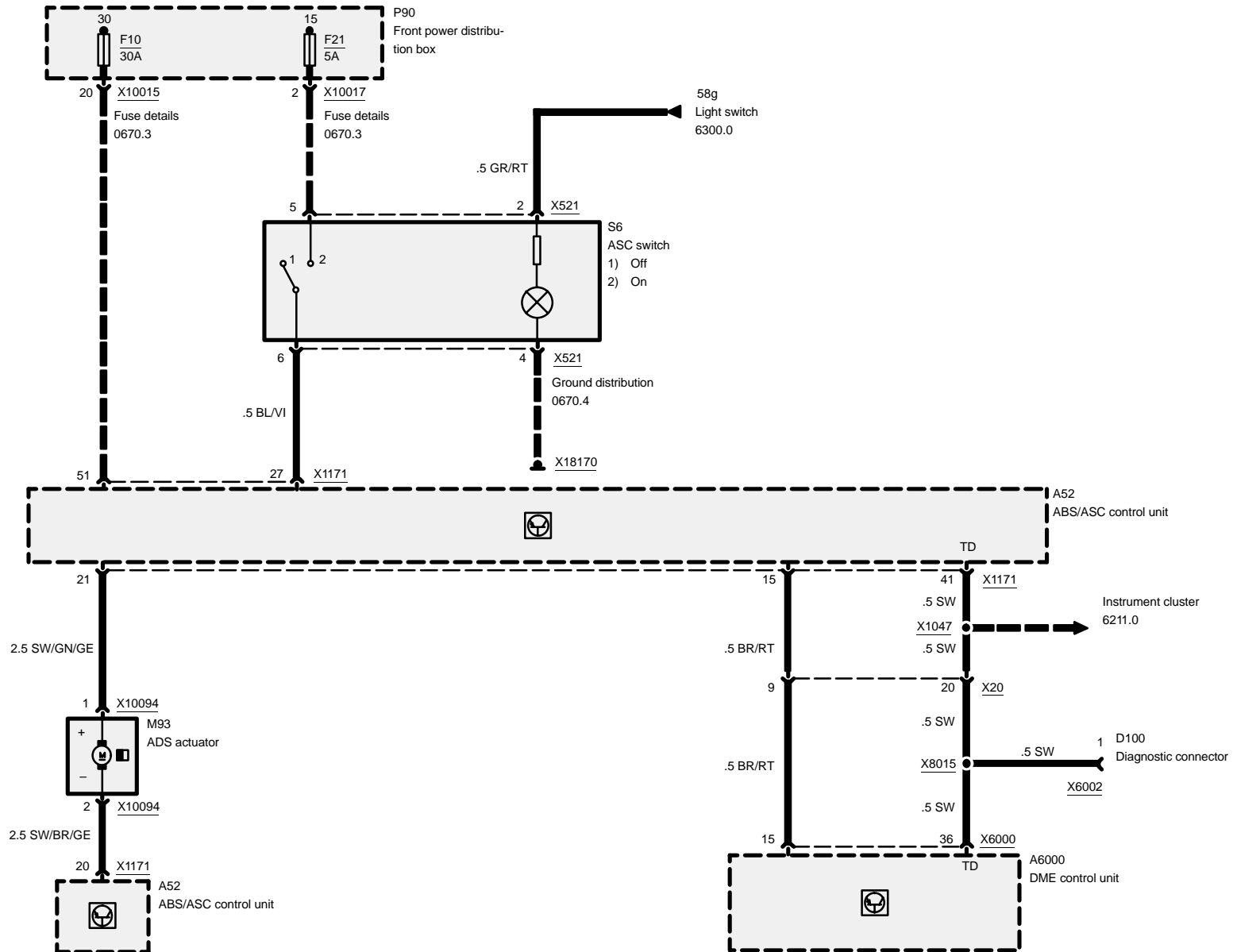


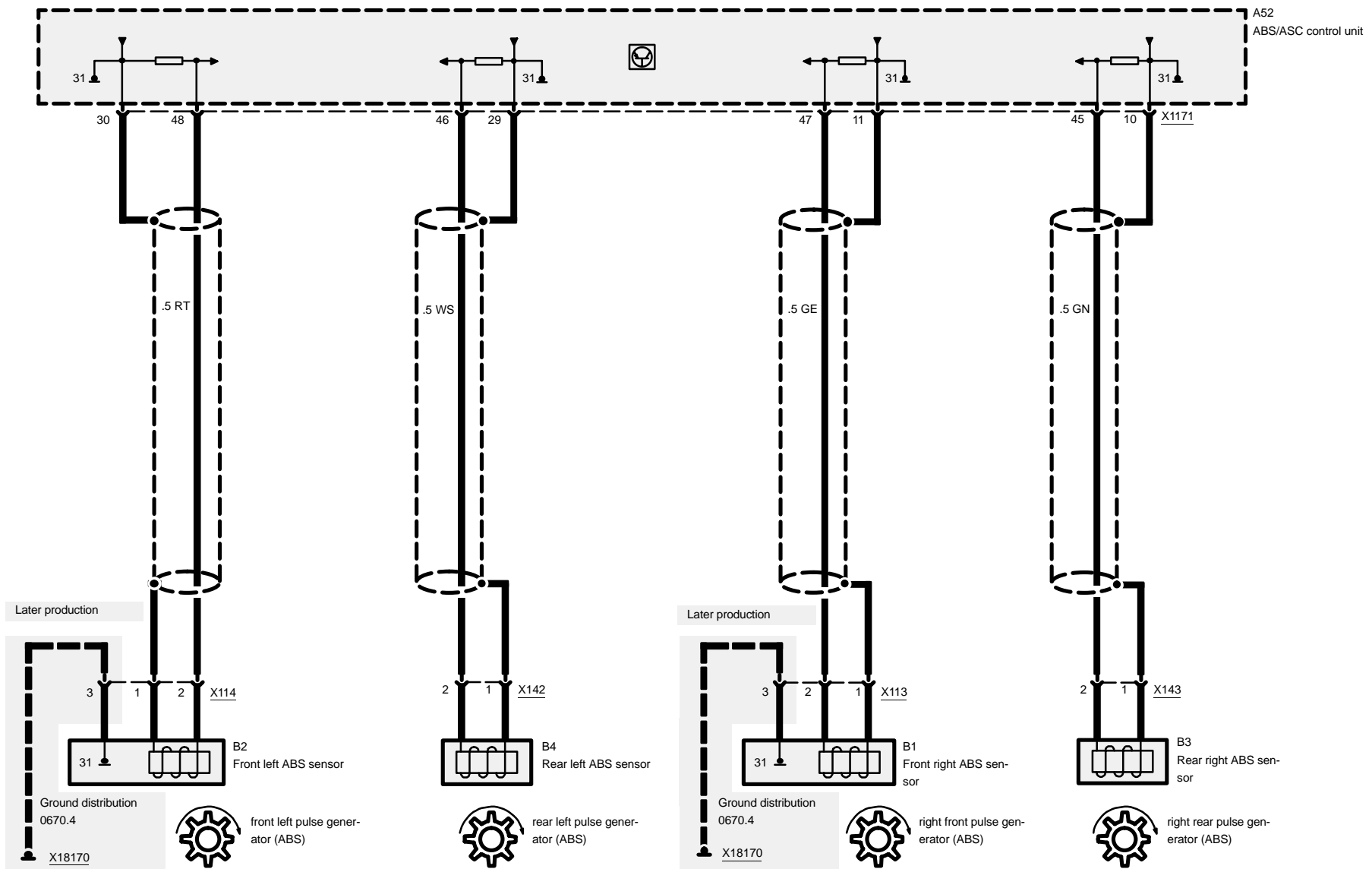


Z3

Automatic stability control (ASC)

B28



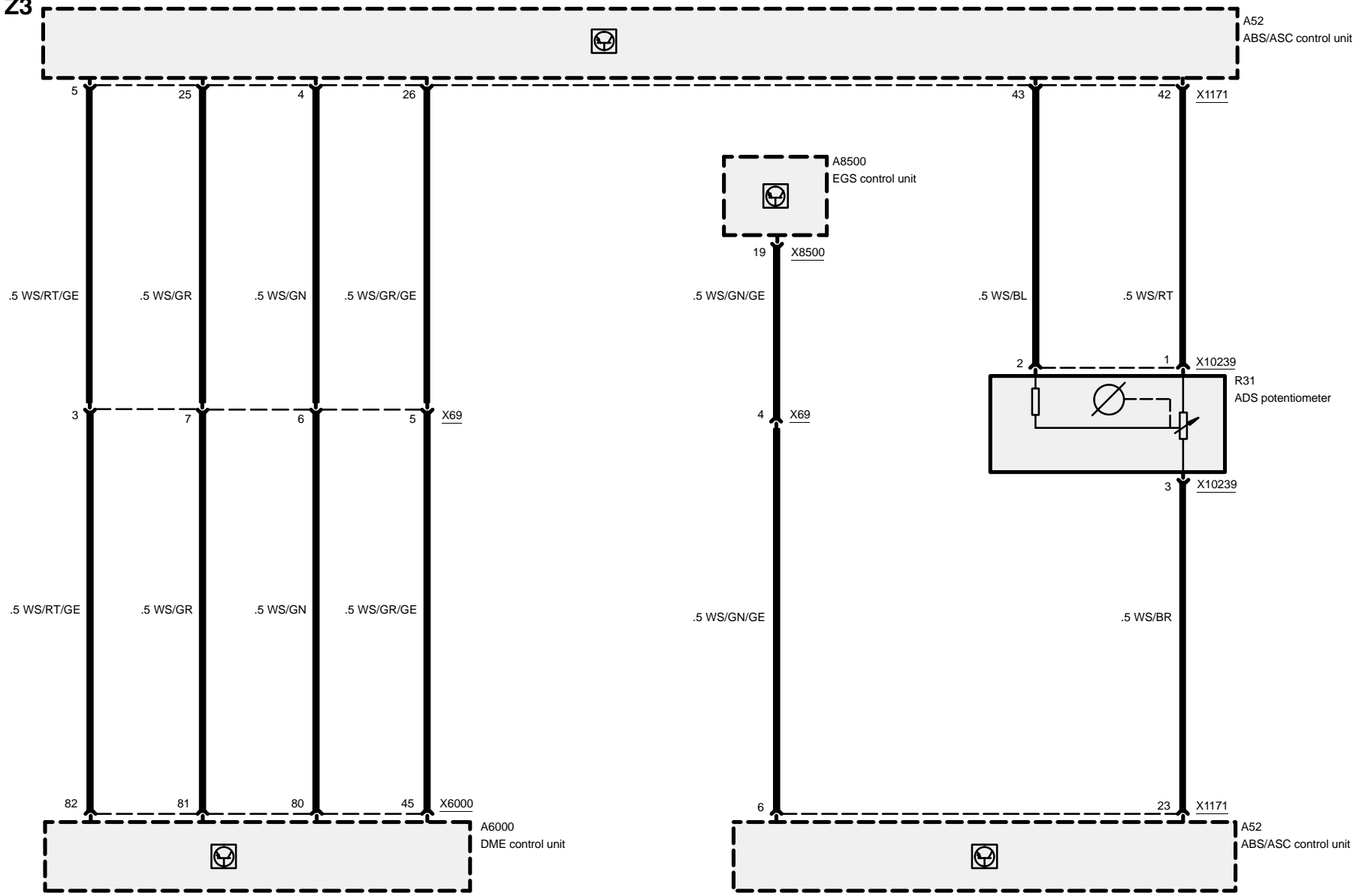




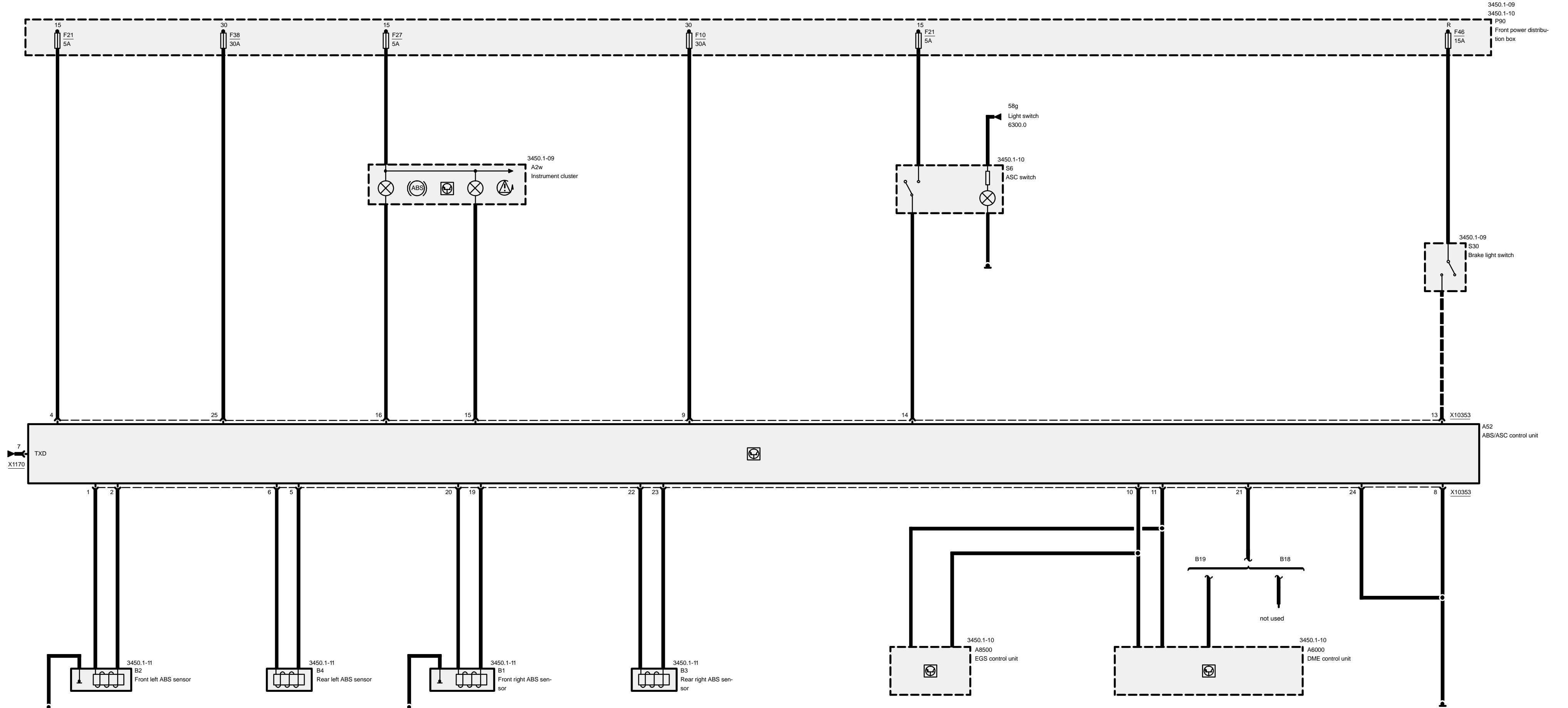
Automatic stability control (ASC)

B28

Z3

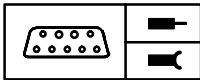


4-cylinder Later production





Z3

**Pin assignments (4-cylinder later production)****X10353**

Pin	Type	Signal	Description/Function	Connection
1	M	VL-	Ground	ABS sensor, front left
2	E	VL+	Engine speed signal	ABS sensor, front left
3			Not used	
4	E	15A21	Terminal 15	Fuse 21
5	M	HL-	Ground	ABS sensor, rear left
6	E	HL+	Engine speed signal	ABS sensor, rear left
7	E/A	TXD	TxD diagnostic link	Diagnostic connector
8	M	31L	Ground	Ground connector
9	E	30<10	Positive power supply	Fuse 10
10	E/A	CAN-	CAN-bus Low	DME/EGS control unit
11	E/A	CAN+	CAN-bus High	DME/EGS control unit
12			Not used	
13	E	54	Brake signal	Brake light switch
14	E	ASCS	ASC ON signal	ASC switch
15	A	WLASC	ASC indicator lamp	Instrument cluster
16	A	WLAS	ABS indicator lamp	Instrument cluster
17			Not used	
18			Not used	
19	M	VR-	Ground	ABS sensor, front right
20	E	VR+	Engine speed signal	ABS sensor, front right
21	A	DFAHR	Wheel speed signal, rear right	DME control unit
22	E	HR+	Engine speed signal	ABS sensor, rear right
23	M	HR-	Ground	ABS sensor, rear right
24	M	31L	Ground	Ground connector
25	E	30<38	Positive power supply	Fuse 38

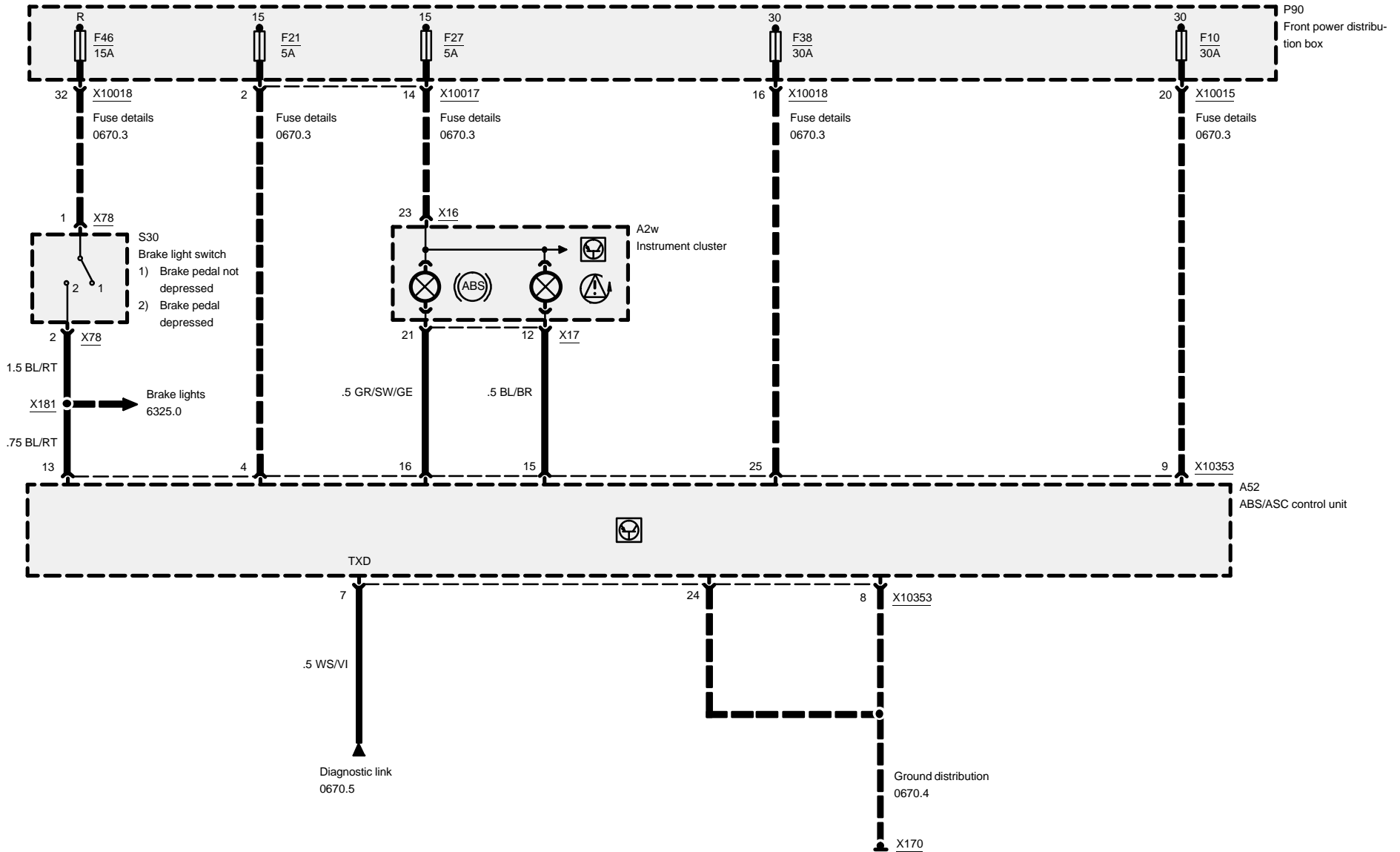
E = Input, A = Output, M = Ground



Automatic stability control (ASC)

4-cylinder Later production

Z3

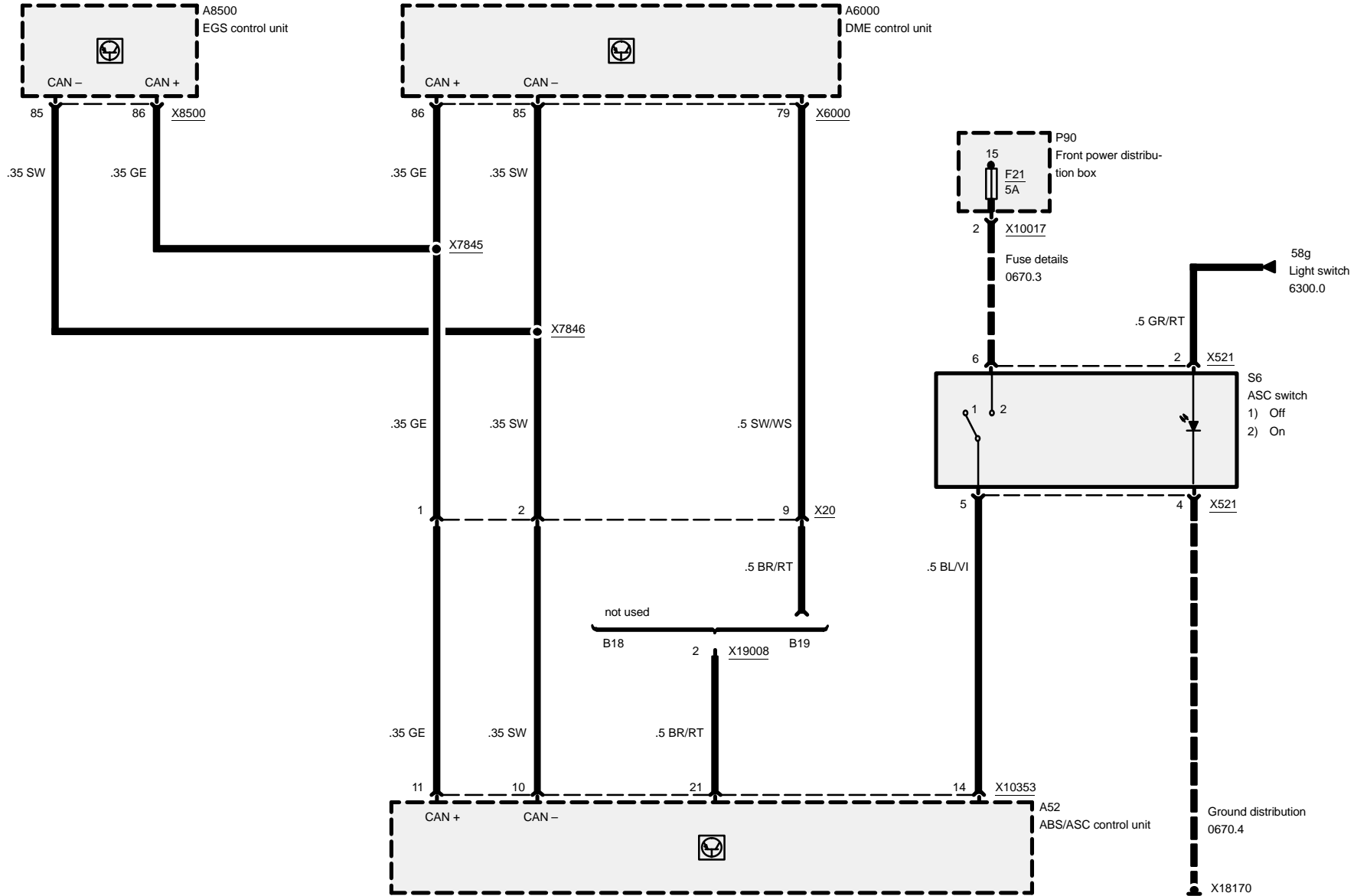


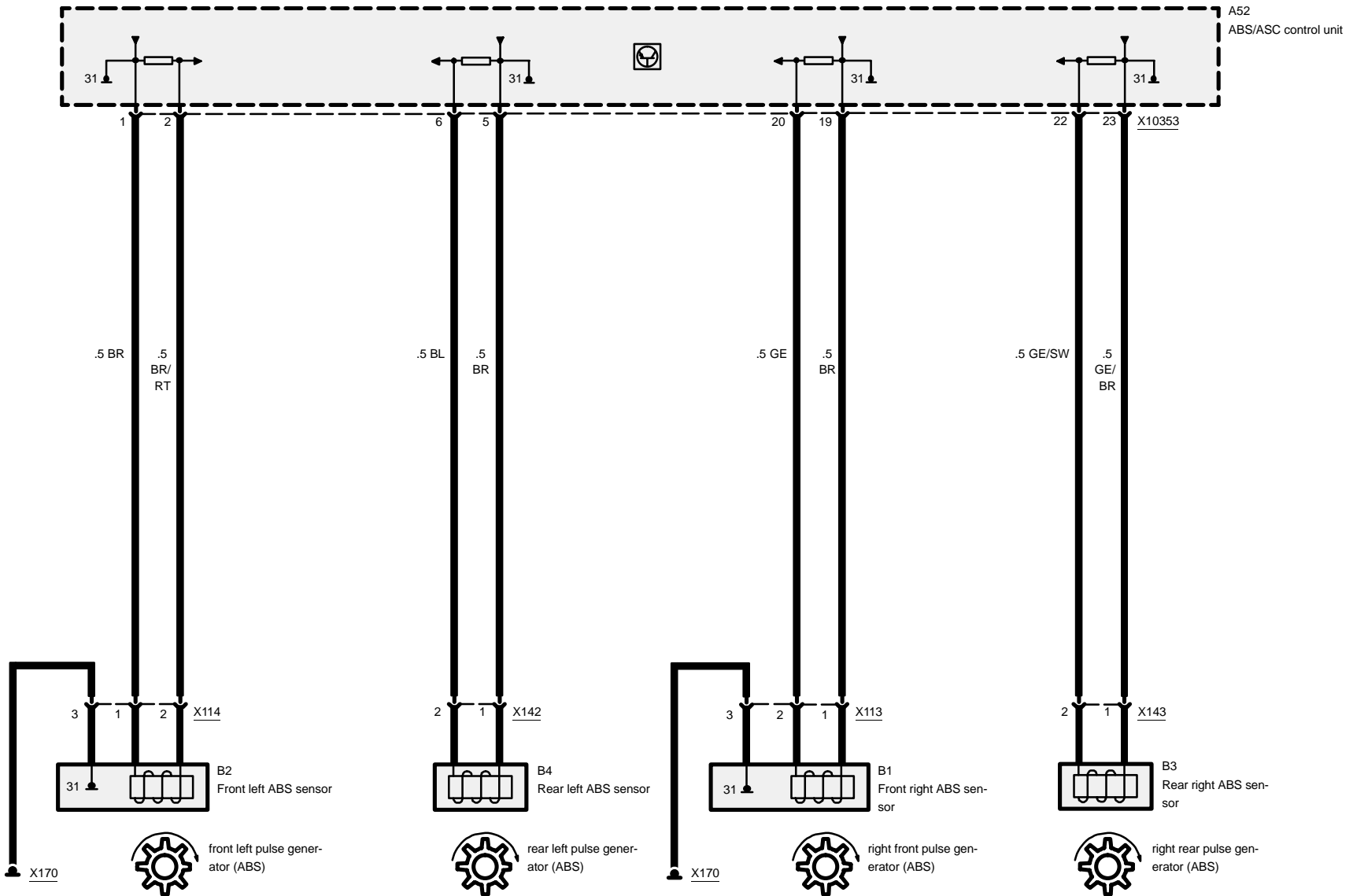


Automatic stability control (ASC)

4-cylinder Later production

Z3

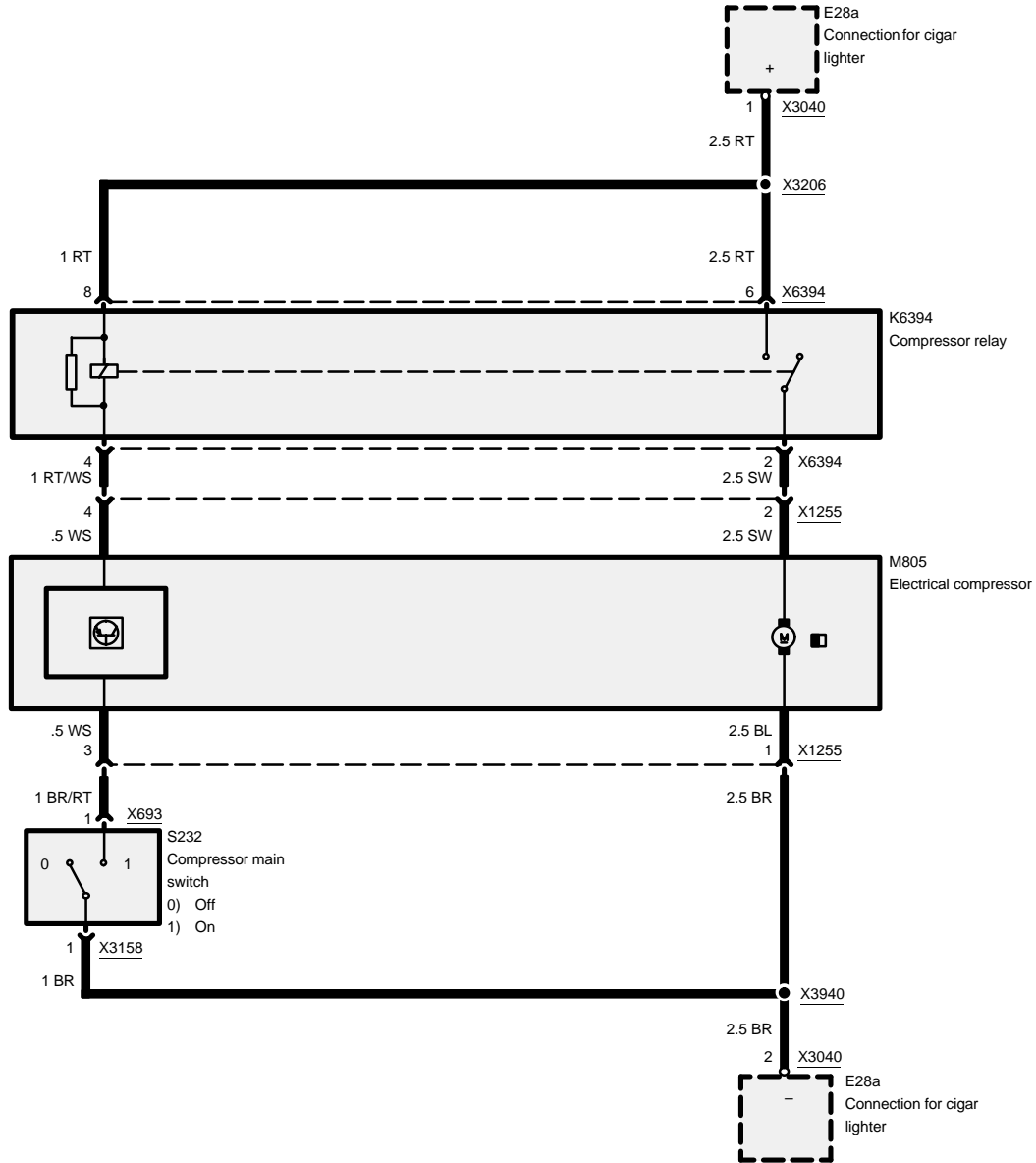






Z3

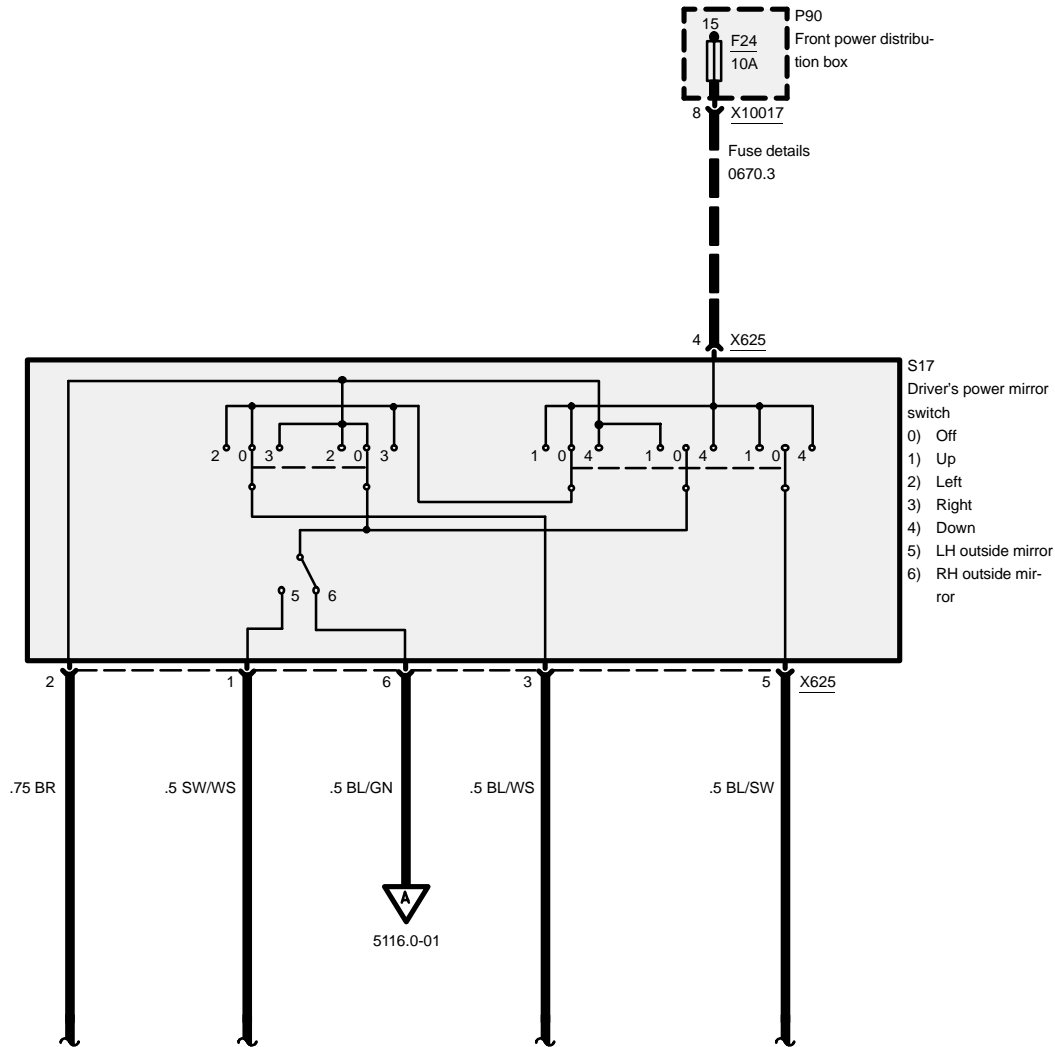
3614.0 Tyre inflation system

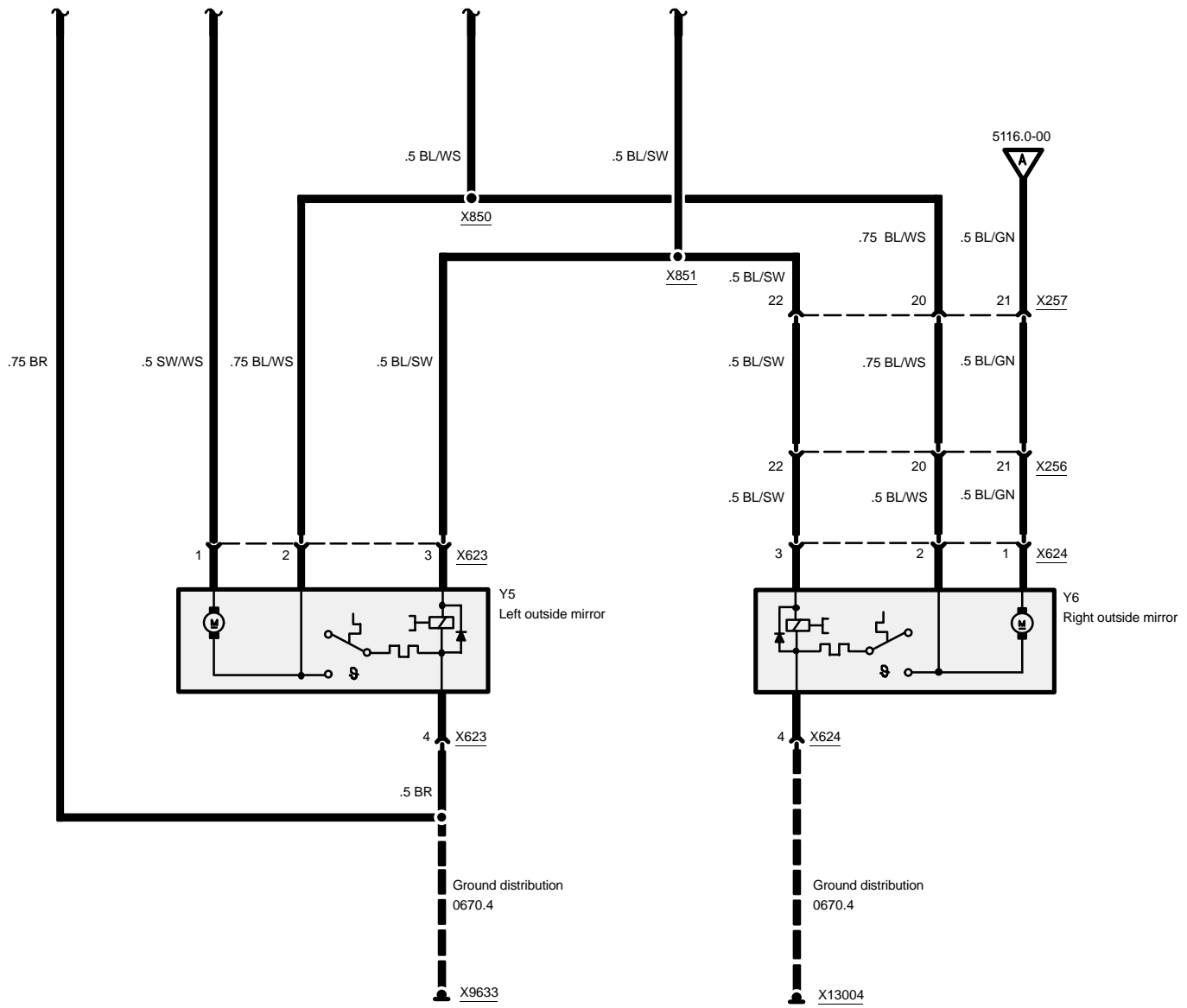




5116.0 Power mirrors

Outside mirror

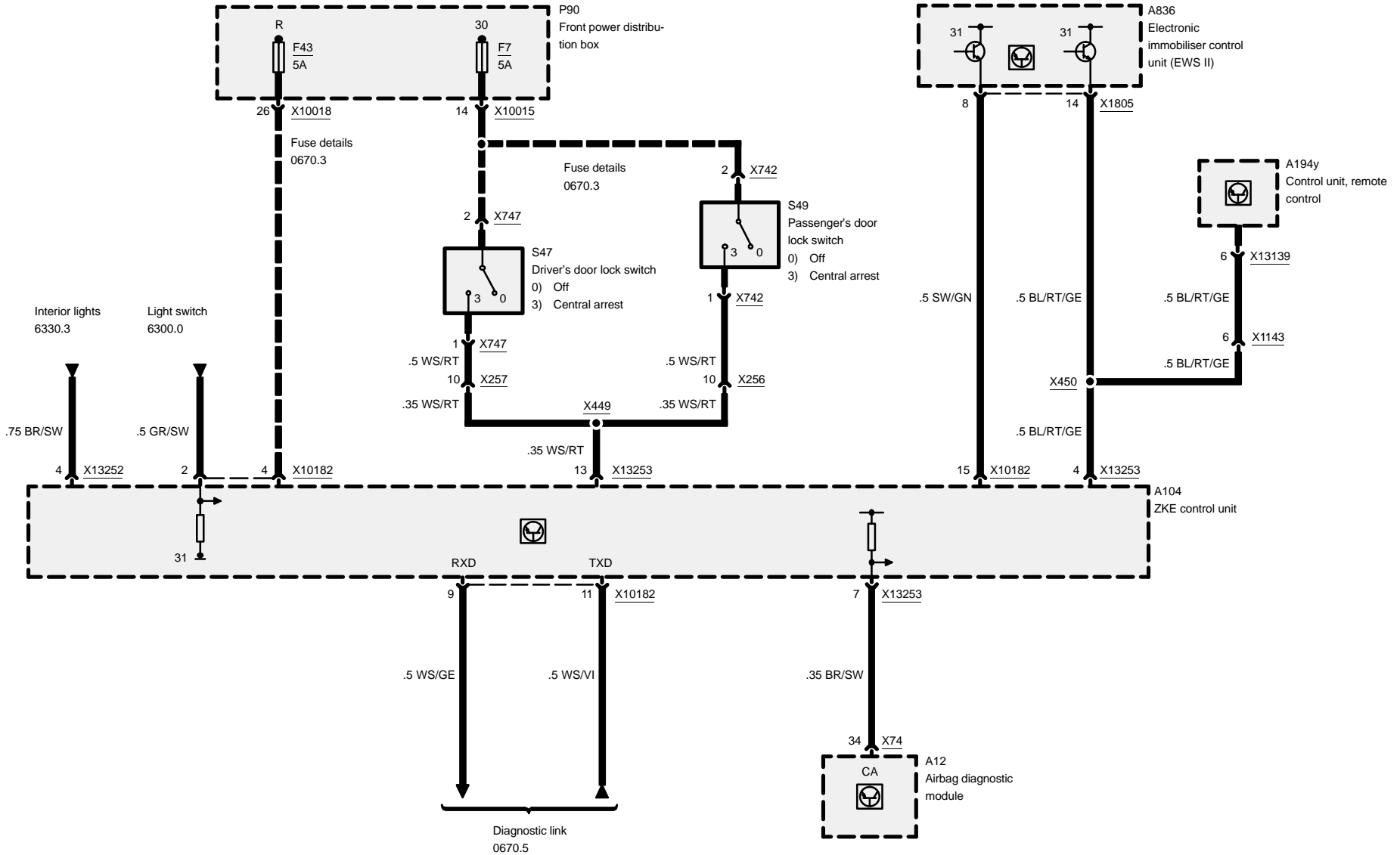






5126.0 Central locking system (ZKE/ZV)

Inputs, immobilising device

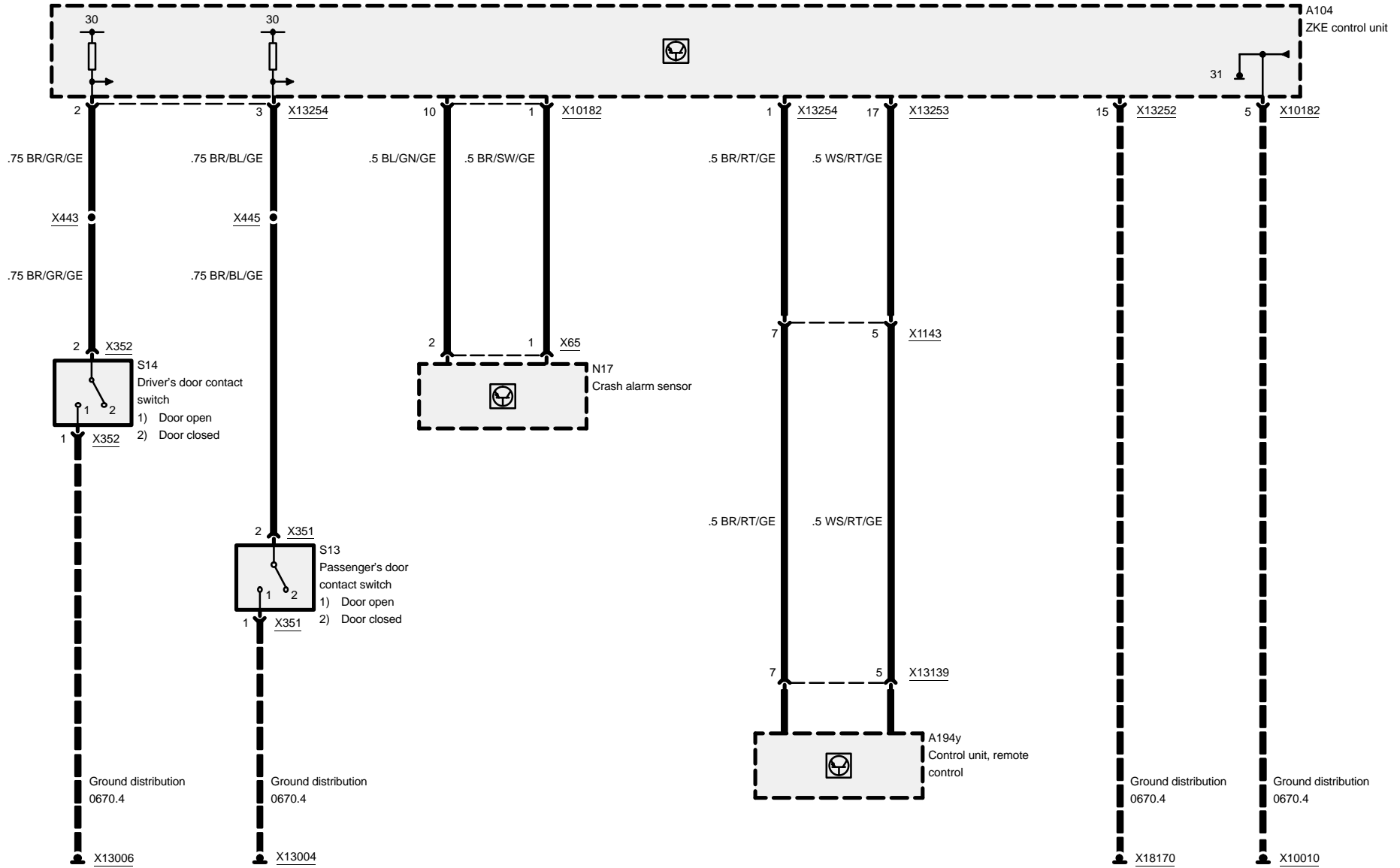




Central locking system (ZKE/ZV)

Inputs

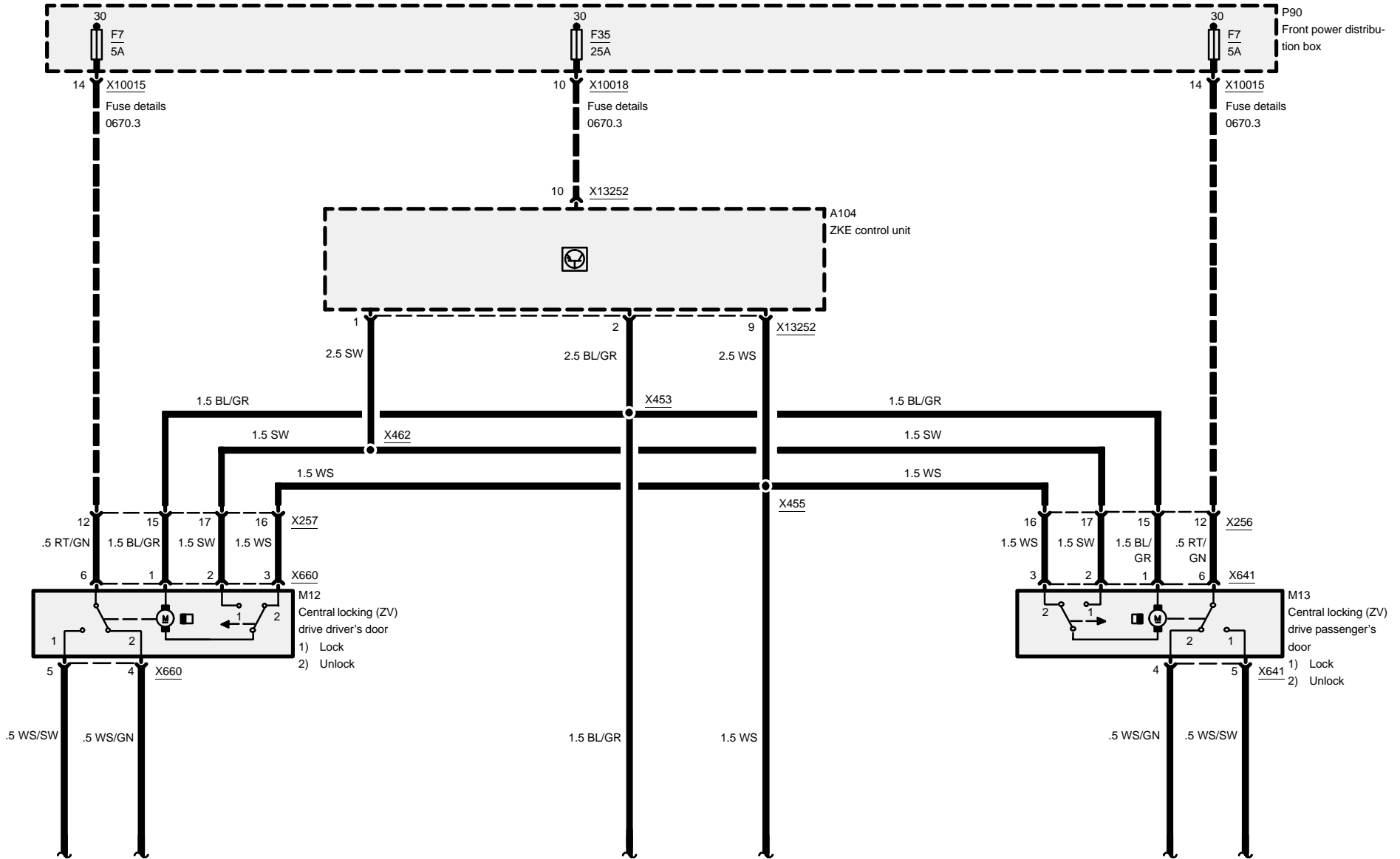
Z3

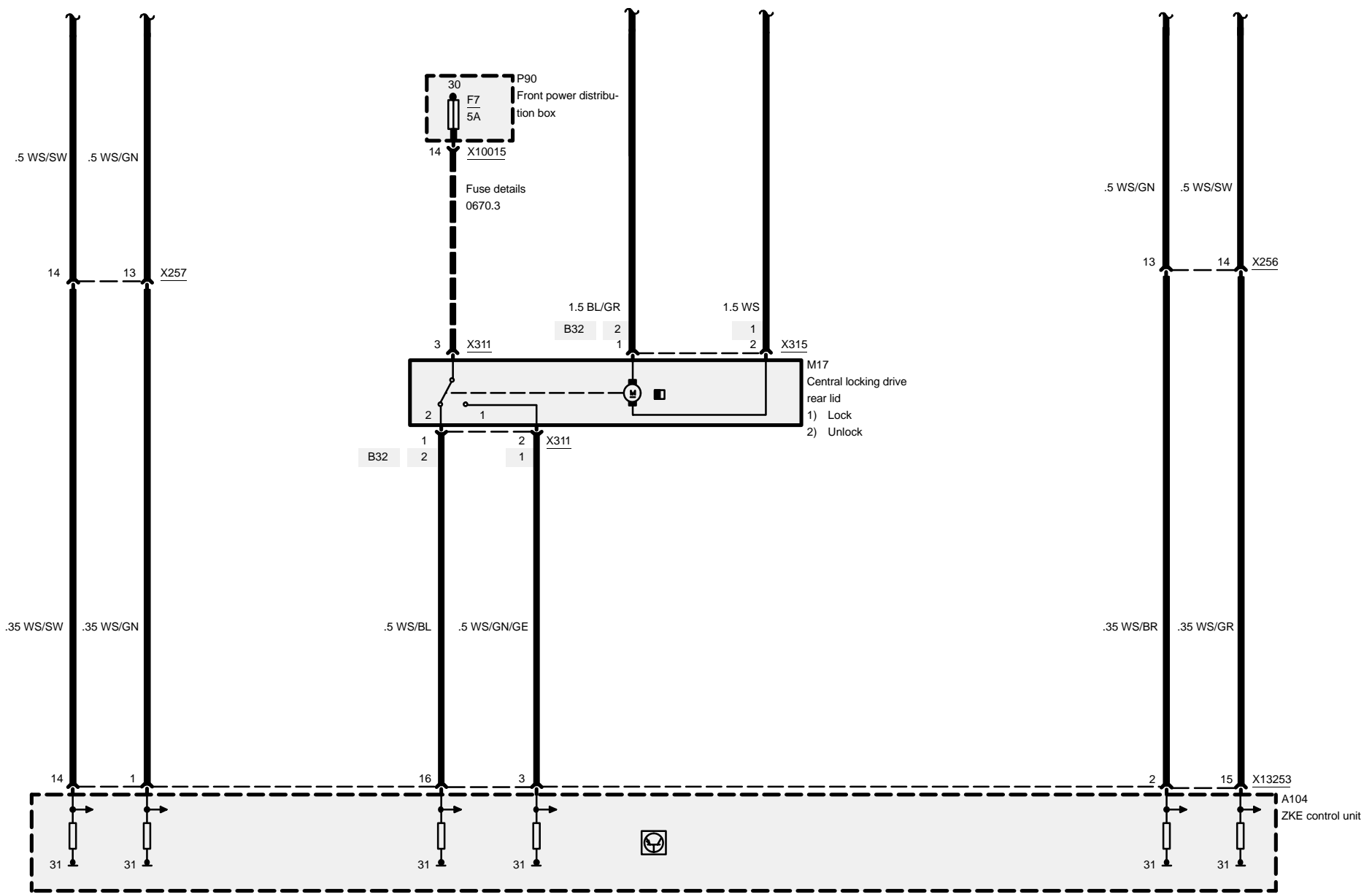




Central locking system (ZKE/ZV)

Outputs

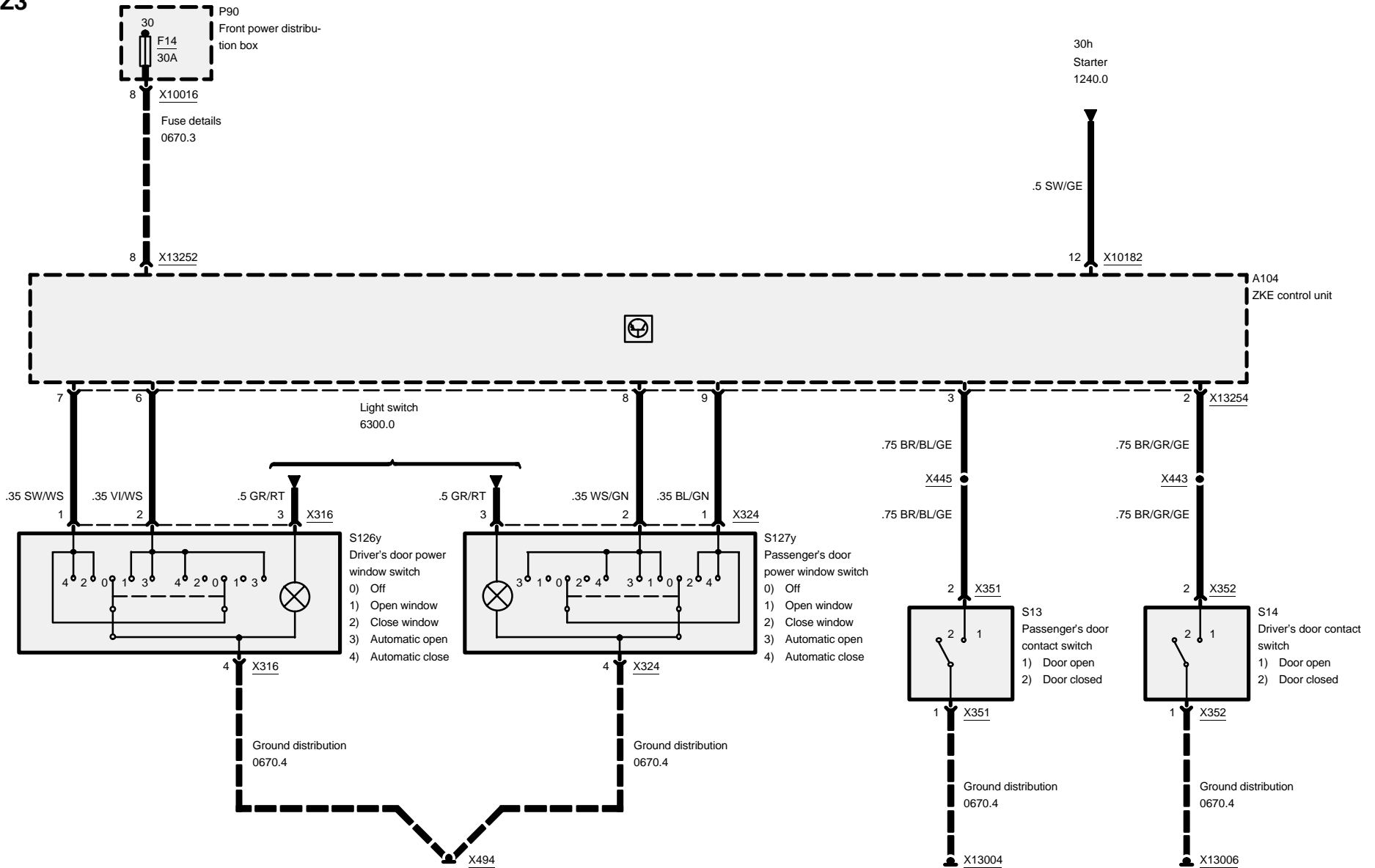




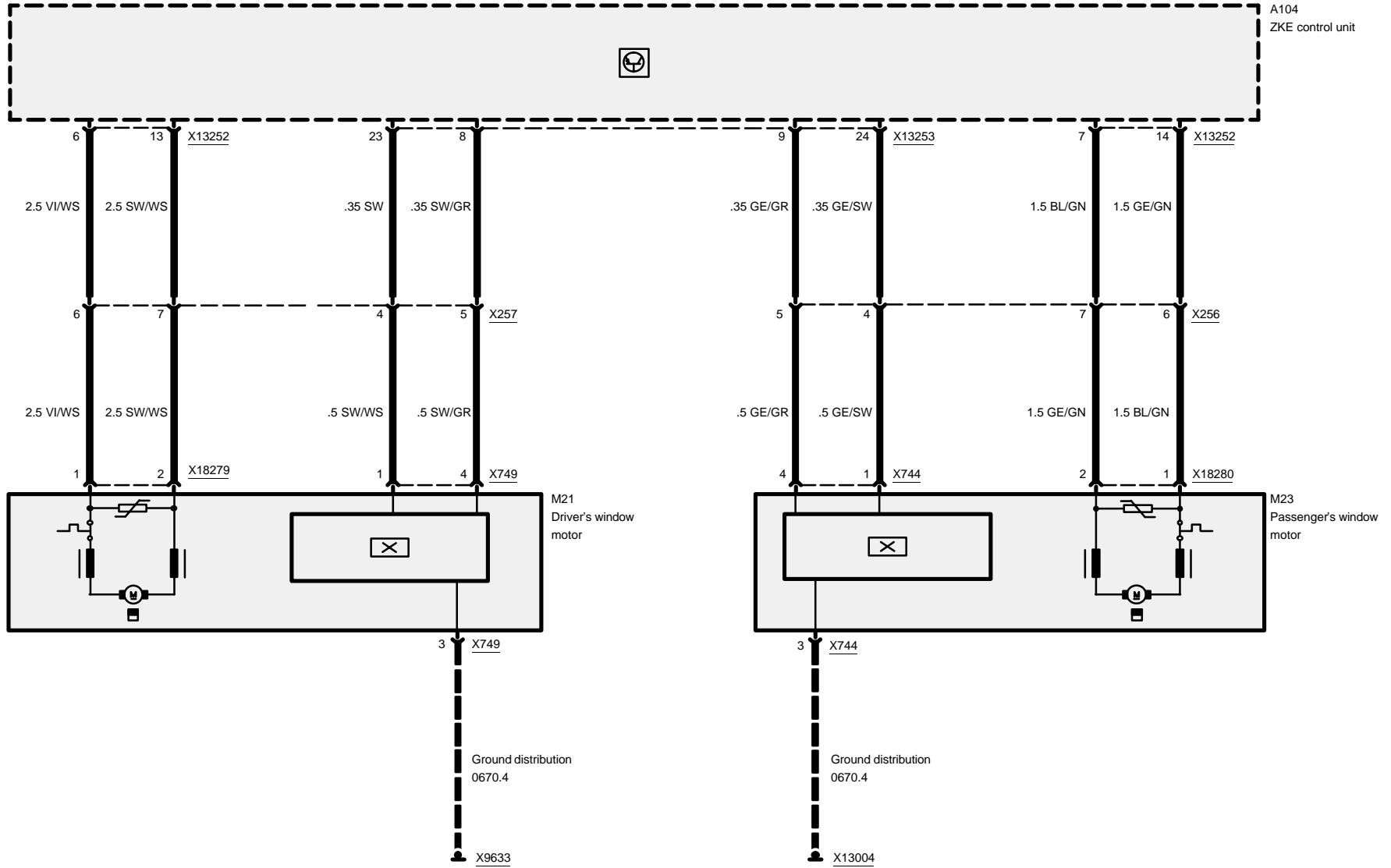


5133.0 Power windows (ZKE/FH)

Z3



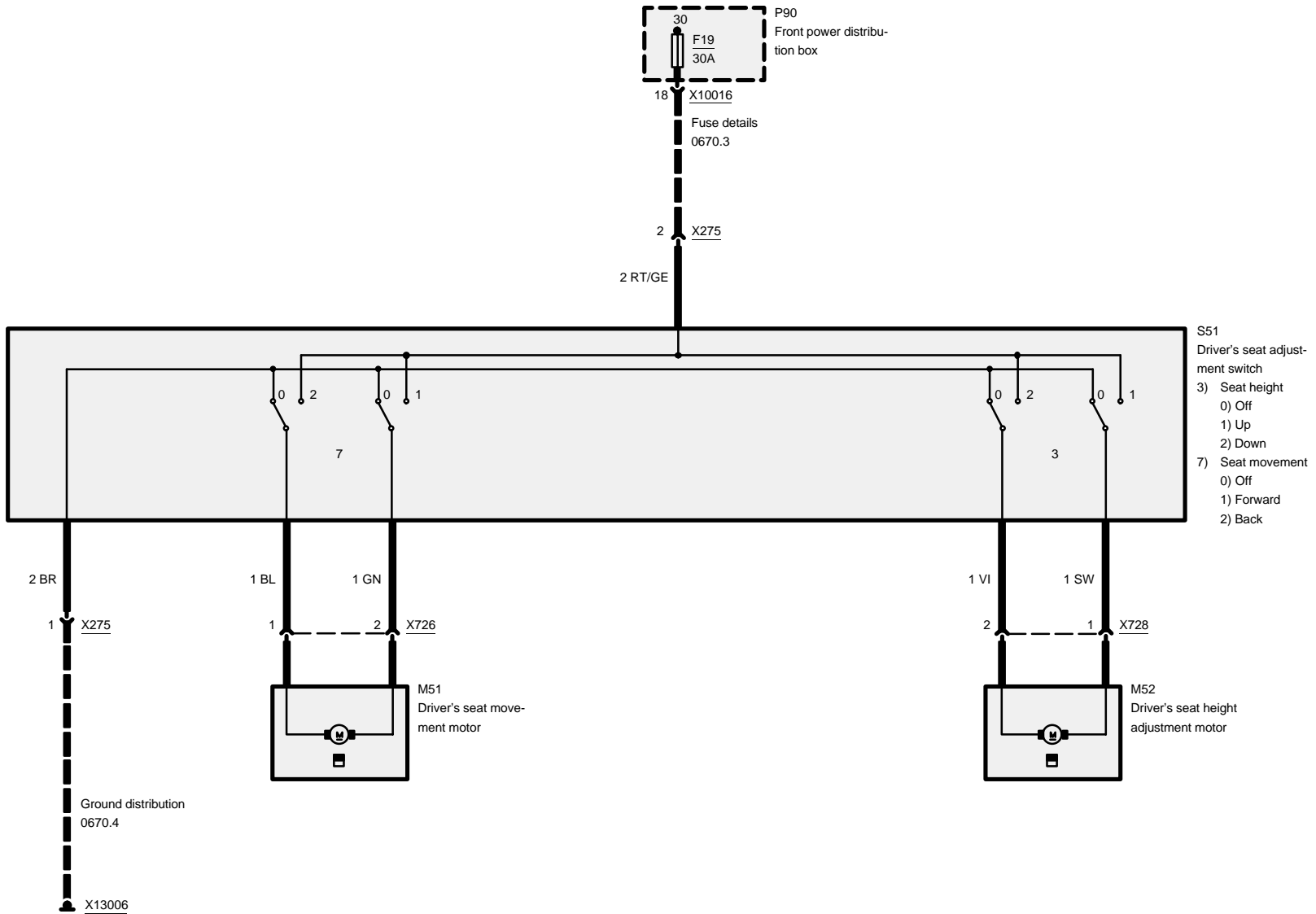
Power windows (ZKE/FH)





5200.0 Power seats

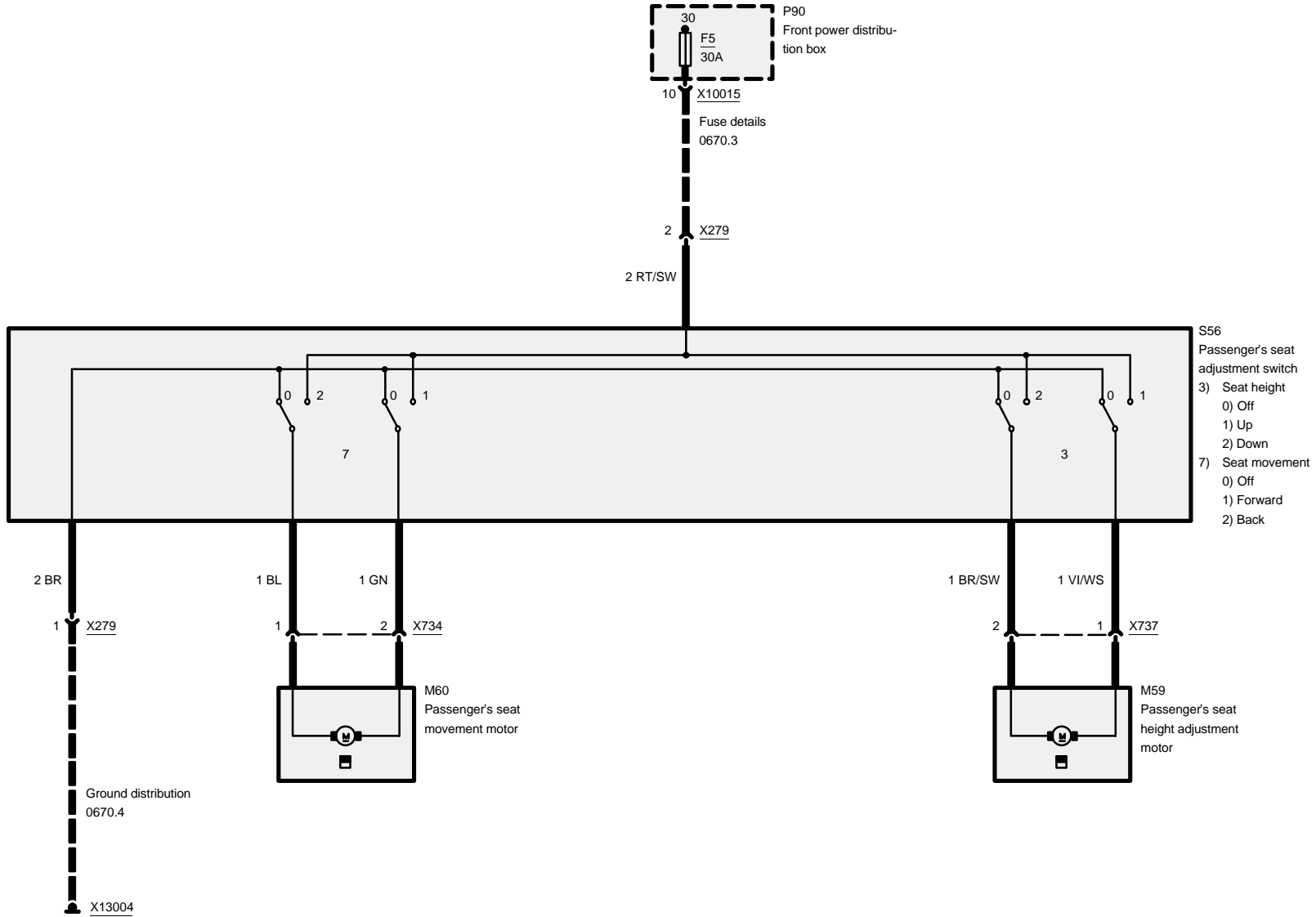
Driver's seat





Power seats

Passenger's seat

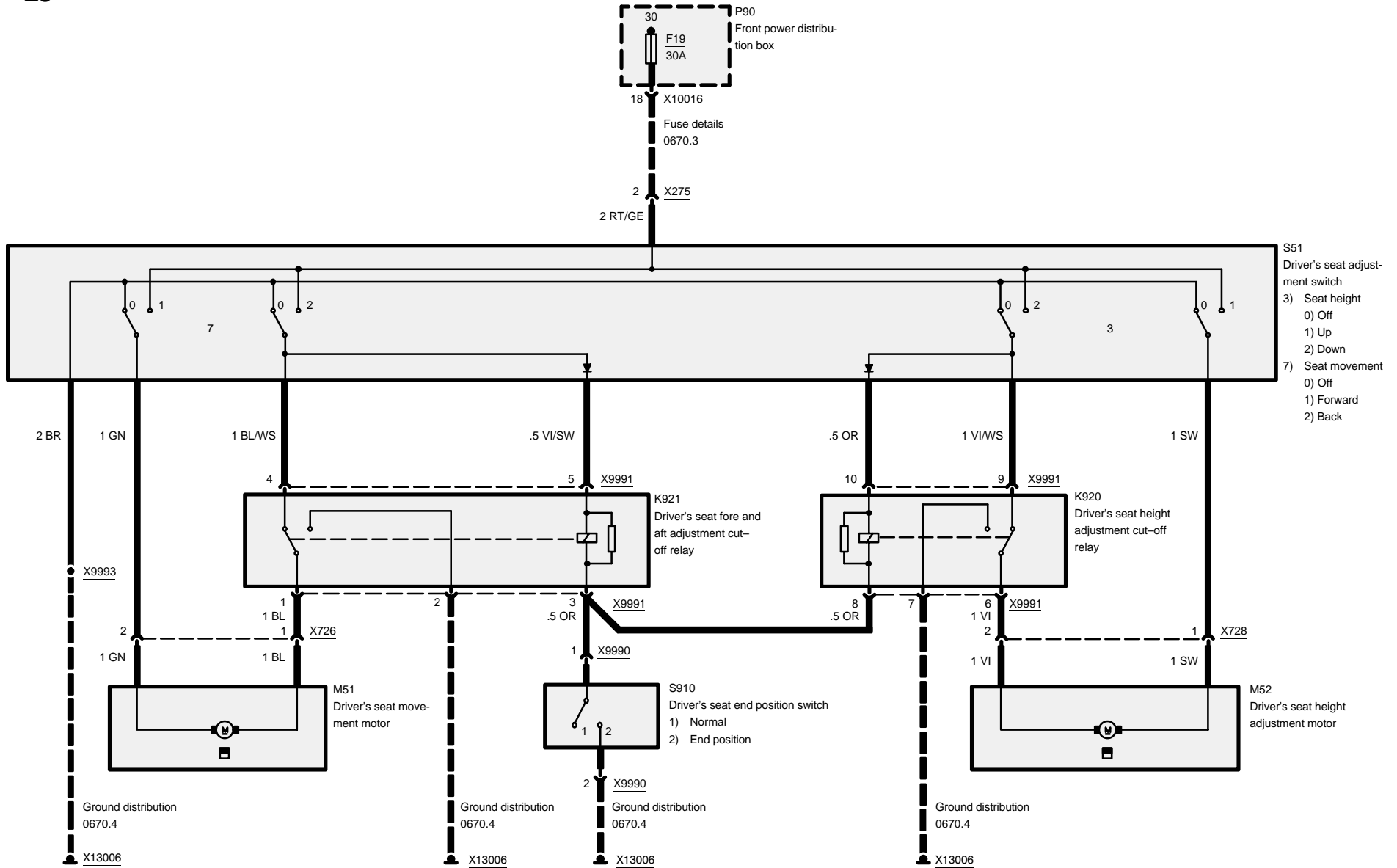




Power seats

Driver's seat

Sports seat

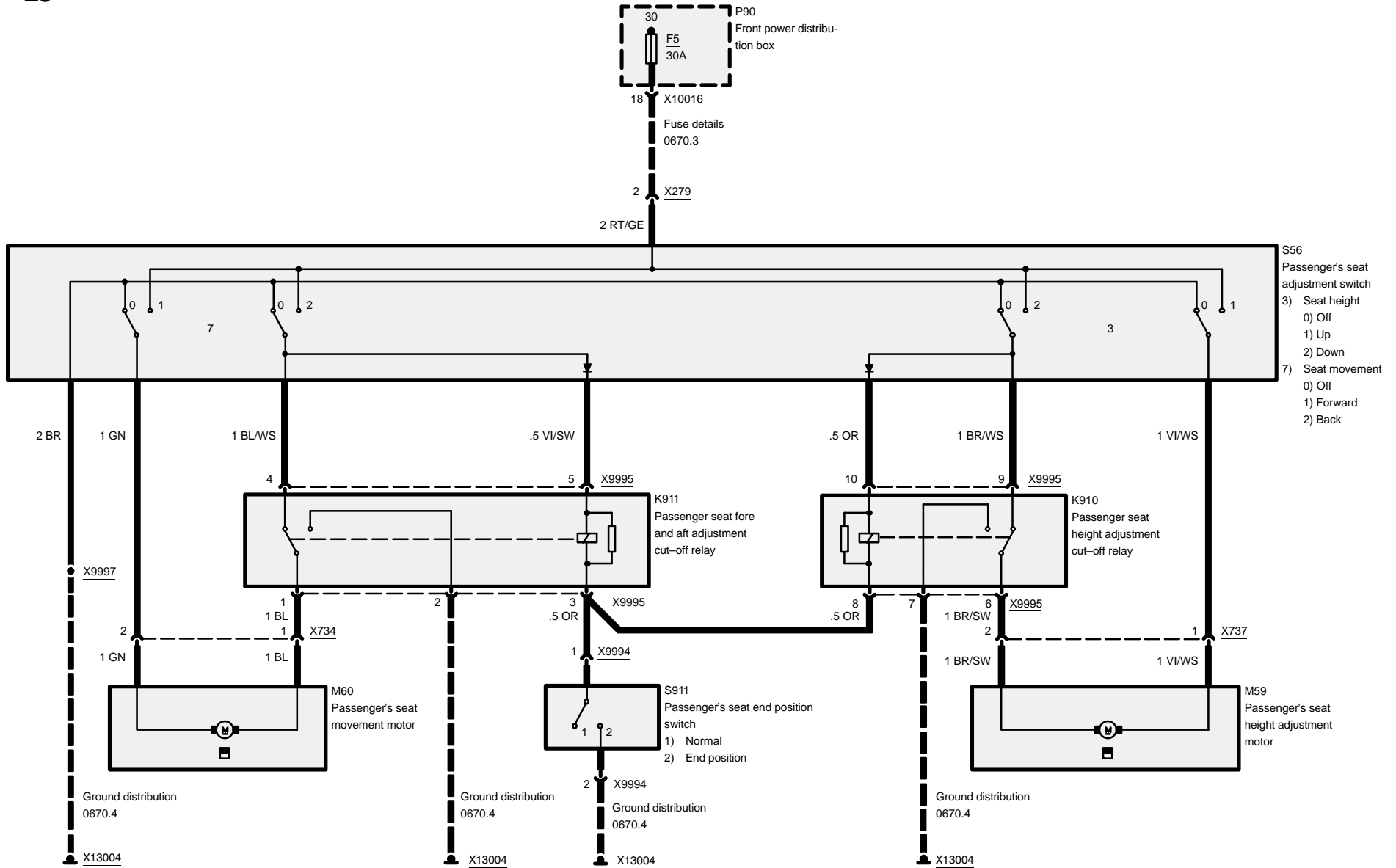




Power seats

Passenger's seat

Sports seat

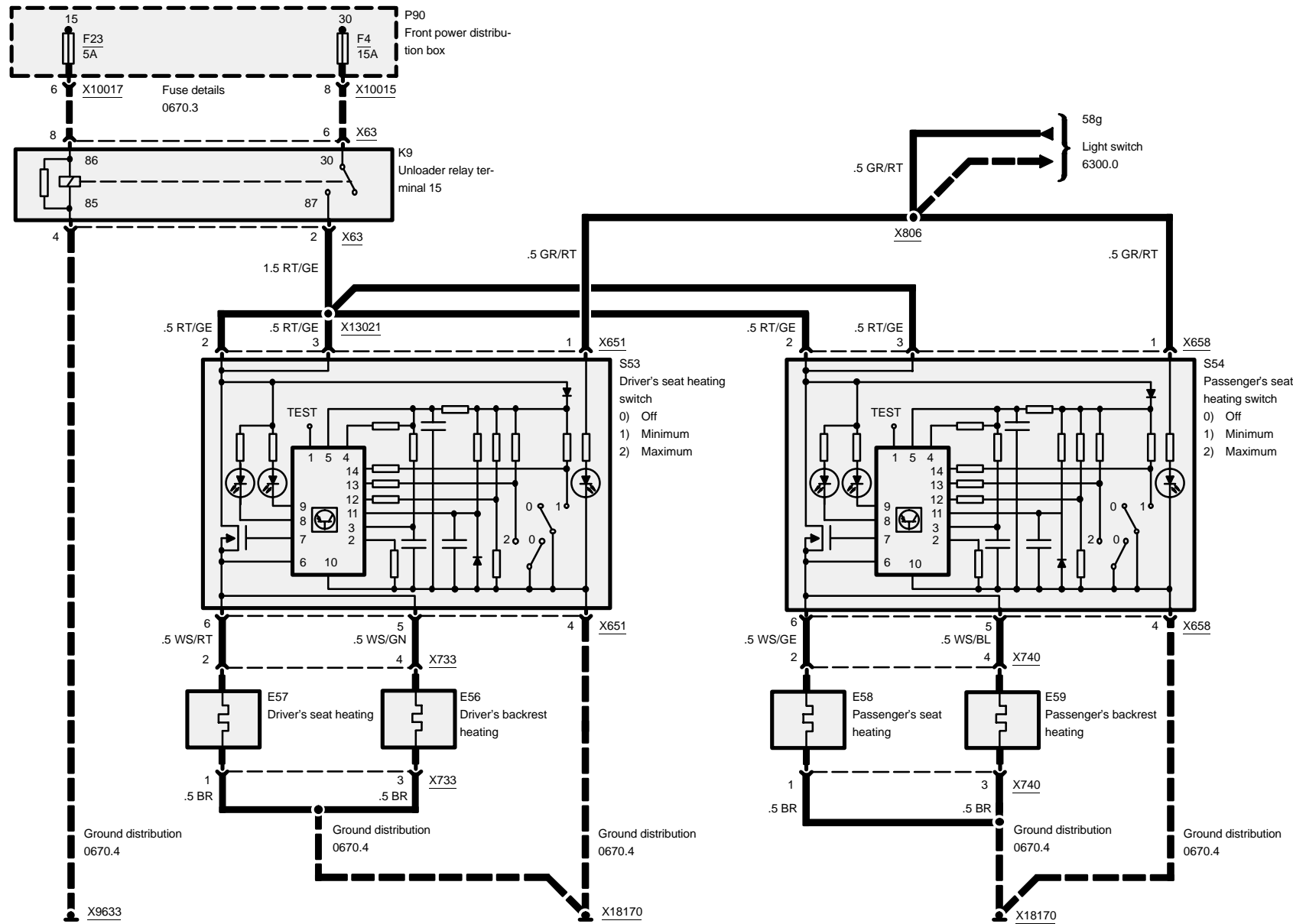




5203.0 Heated seats

Earlier production

Z3



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5203.0-00

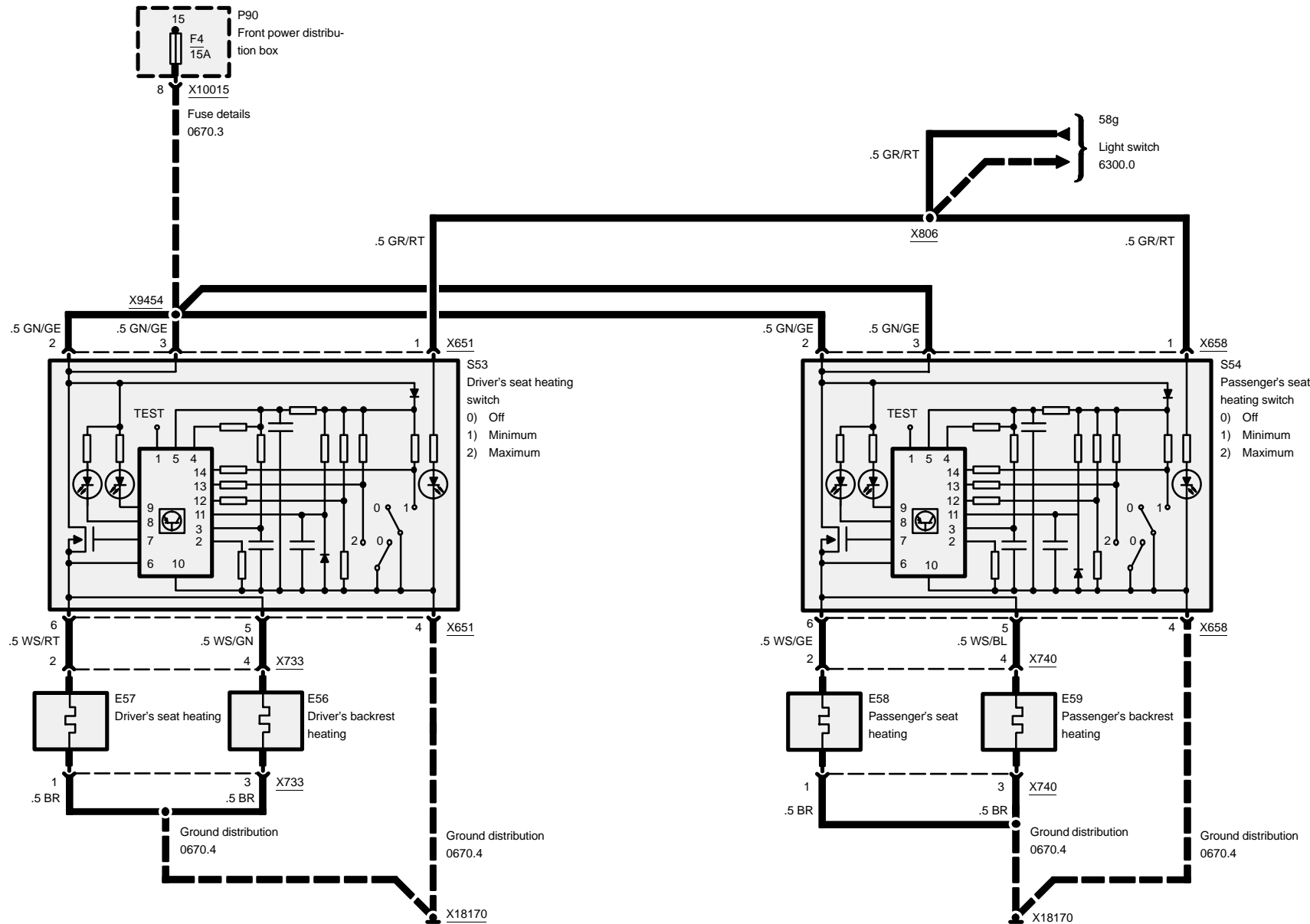
1998



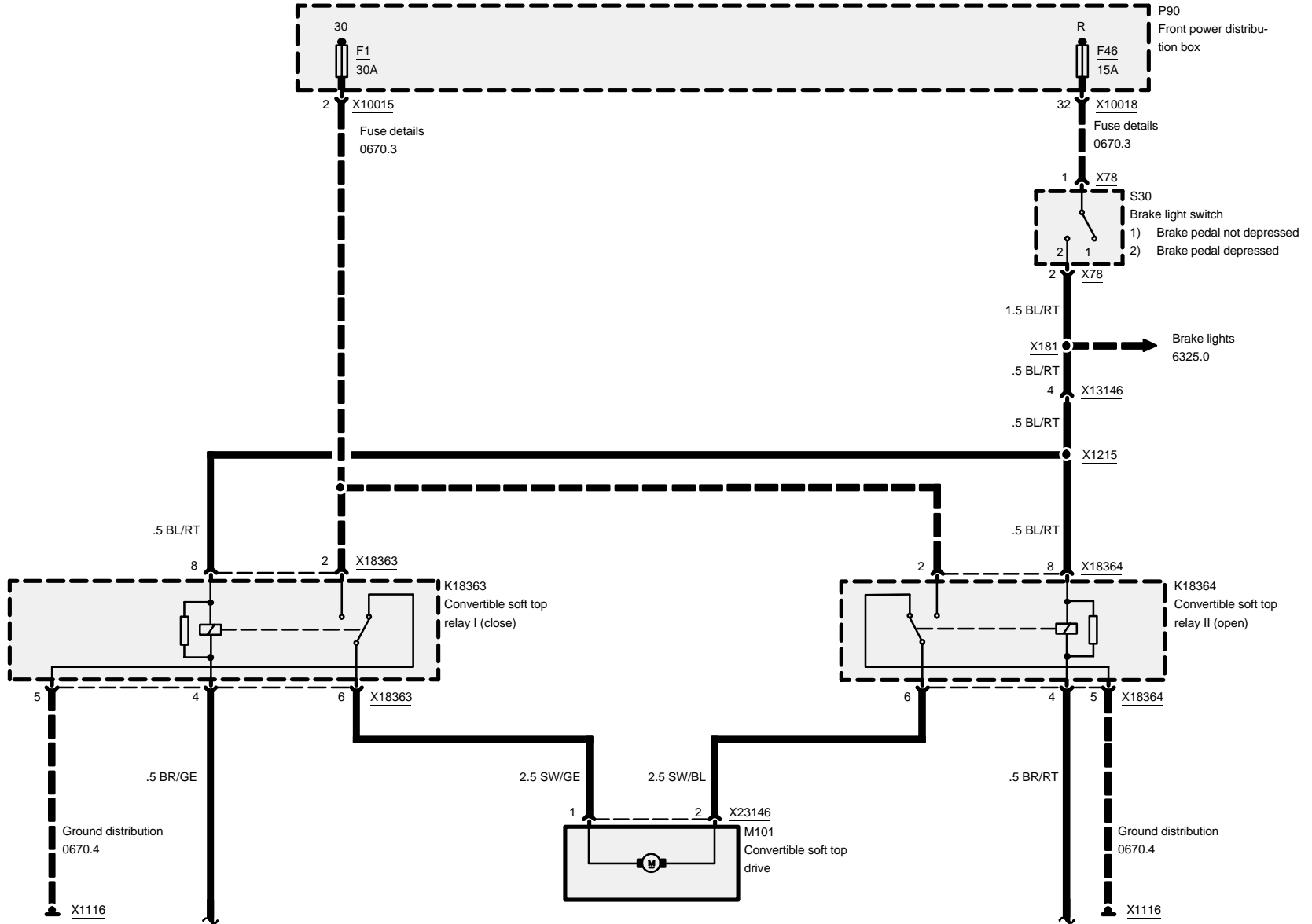
Z3

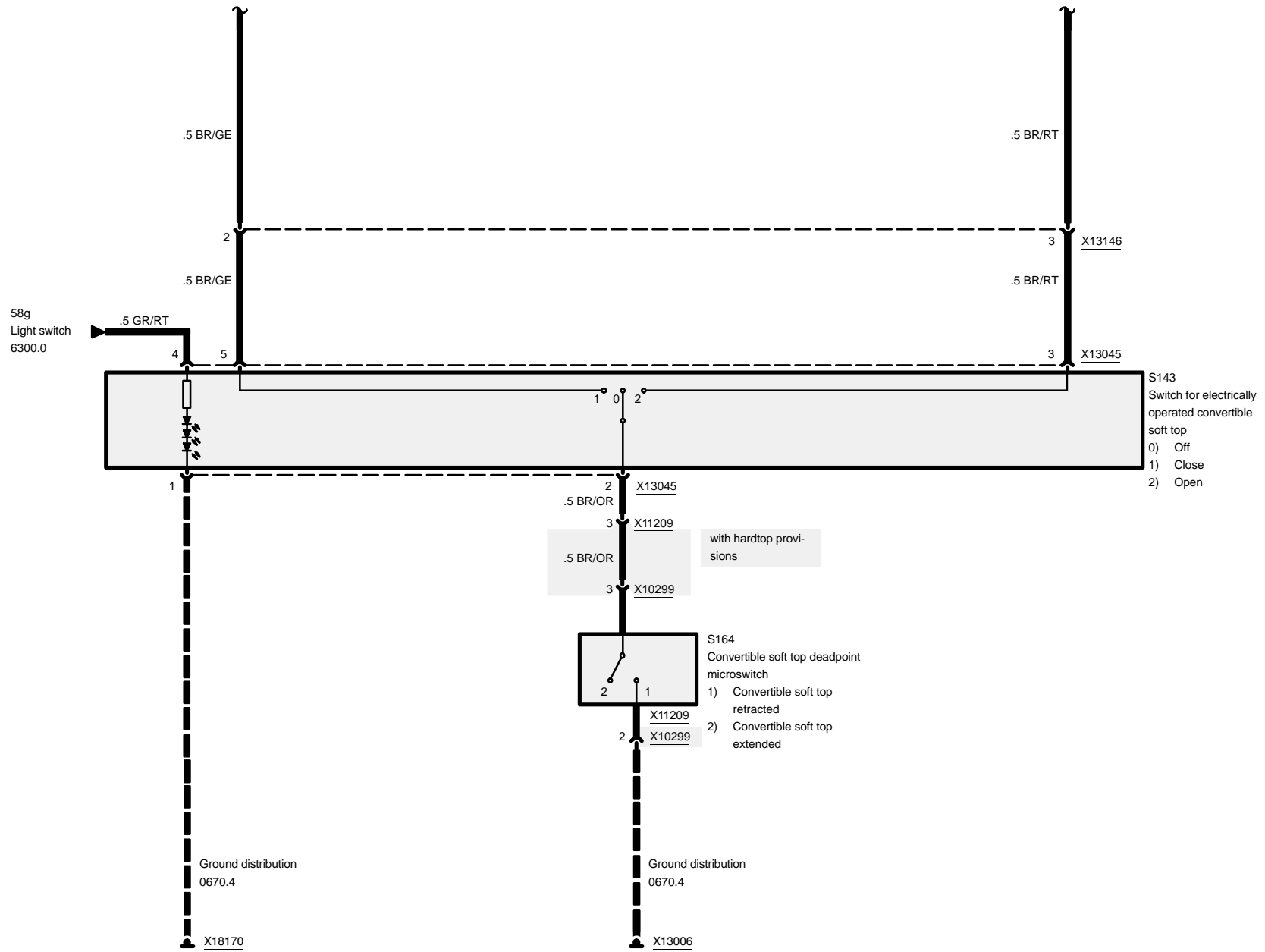
Heated seats

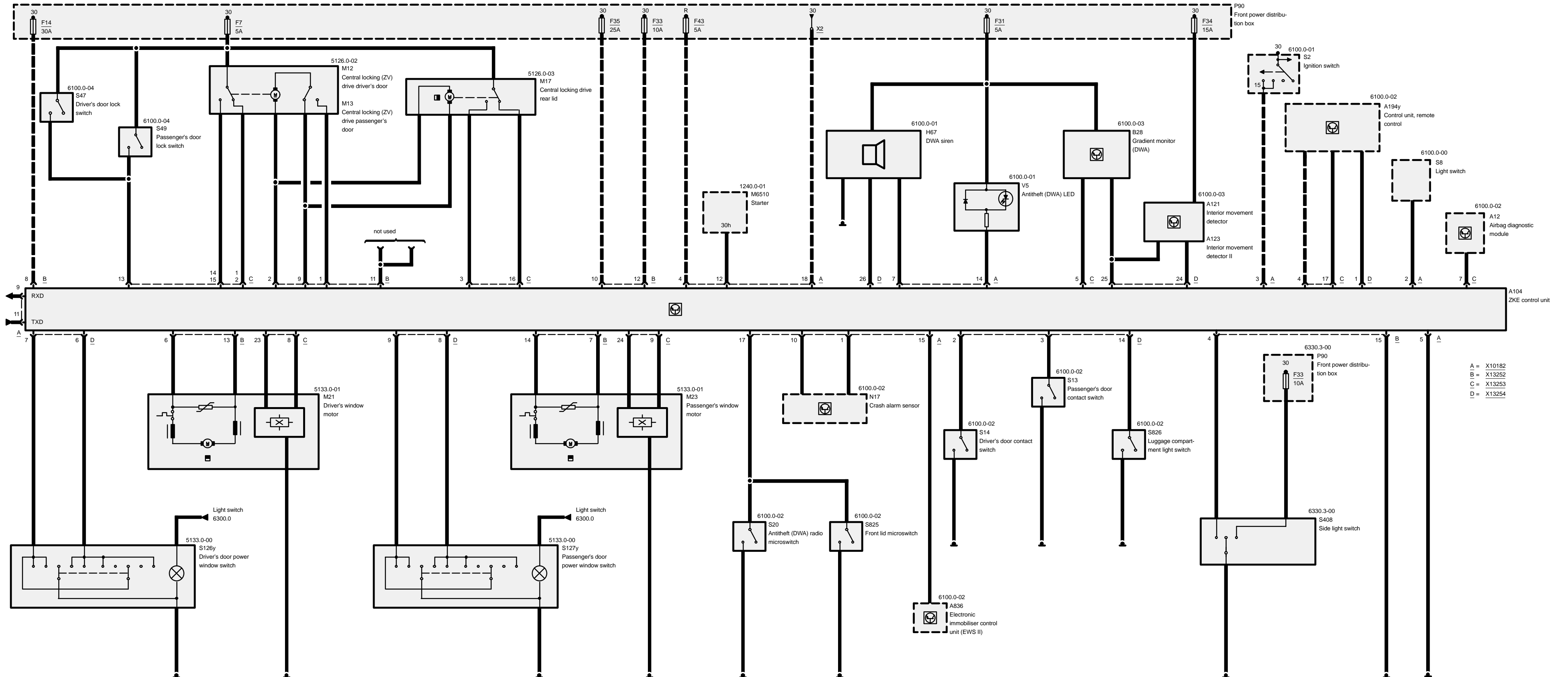
Later production



5430.2 Electrohydraulic convertible soft-top

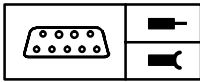








Z3

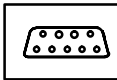
**Pin assignments**

A=X10182	18-pin, black
B=X13252	15-pin, black
C=X13253	26-pin, yellow
D=X13254	26-pin, green

X10182

Pin	Type	Description/Function	Connection
1	A	Hazard warning signal	Crash alarm sensor
2	E	Parking light signal	Light switch
3	E	Terminal, ignition	Ignition switch
4	E	Terminal, radio	Fuse 43
5	M	Ground	Ground connection
6		Not used	
7	A	Horn activation	DWA antitheft horn
8		Not used	
9	A	RxD diagnostic link	Diagnostic connector
10	A	Visual alarm (DWA)	Crash alarm sensor
11	E/A	TxD diagnostic data link	Diagnostic connector
12	E	Starter signal	Starter
13		Not used	
14	A	LED	DWA LED
15	A	Vehicle immobilization	Control unit, electronic vehicle immobilization (EWS II)
16		Not used	
17	E	DWA signal	Radio/front lid microswitch
18	E	Power supply, terminal 30	Front power distribution box

Z3



Pin assignments

X13252

Pin	Type	Description/Function	Connection
1	A	Arrest signal	Central locking drive
2	A	Unlock signal	Central locking drive
3		Not used	
4	A	Interior lights	Switch, side lights
5		Not used	
6	A	Open signal	Power window motor, driver's door
7	A	Close signal	Power window motor, passenger's door
8	E	Power supply, power windows	Fuse 14
9	A	Lock signal	Central locking drive
10	E	Power supply, central locking	Fuse 35
11	A	Consumer load cutout	Not used
12	E	Power supply, Interior lights	Fuse 33
13	A	Close signal	Power window motor, driver's door
14	A	Open signal	Power window motor, passenger's door
15	M	Ground	Ground connection

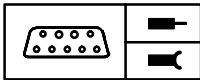
X13253

Pin	Type	Description/Function	Connection
1	E	Unlock signal	Central locking drive, driver's door
2	E	Unlock signal	Central locking drive, front passenger's door
3	E	Unlock signal	Central locking drive, boot lid
4	E	Central arrest signal	Remote control unit
5	E	Tilt signal	Tilt alarm sensor
6		Not used	
7	E	Crash pulse	Airbag control unit
8	E	Position pulse A	Power window motor, driver's door
9	E	Position pulse A	Power window motor, passenger's door
10		Not used	
11		Not used	

E = Input, A = Output, M = Ground



Z3

**Pin assignments**

Pin	Type	Description/Function	Connection
12		Not used	
13	E	Central arrest signal	Lock switch
14	E	Lock signal	Central locking drive (ZV), driver's door
15	E	Lock signal	Central locking drive (ZV), passenger's door
16	E	Lock signal	ZV drive, rear lid
17	E	Lock signal	Remote control unit
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23	A	Position sensor	Power window motor, driver's door
24	A	Position sensor	Power window motor, passenger's door
25		Not used	
26		Not used	

X13254

Pin	Type	Description/Function	Connection
1	E	Remote control	Remote control unit
2	E	Driver's door	Door contact switch
3	E	Front passenger's door	Door contact switch
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	
13		Not used	

E = Input, A = Output, M = Ground

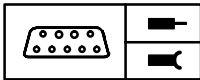


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1998

Z3



Pin assignments

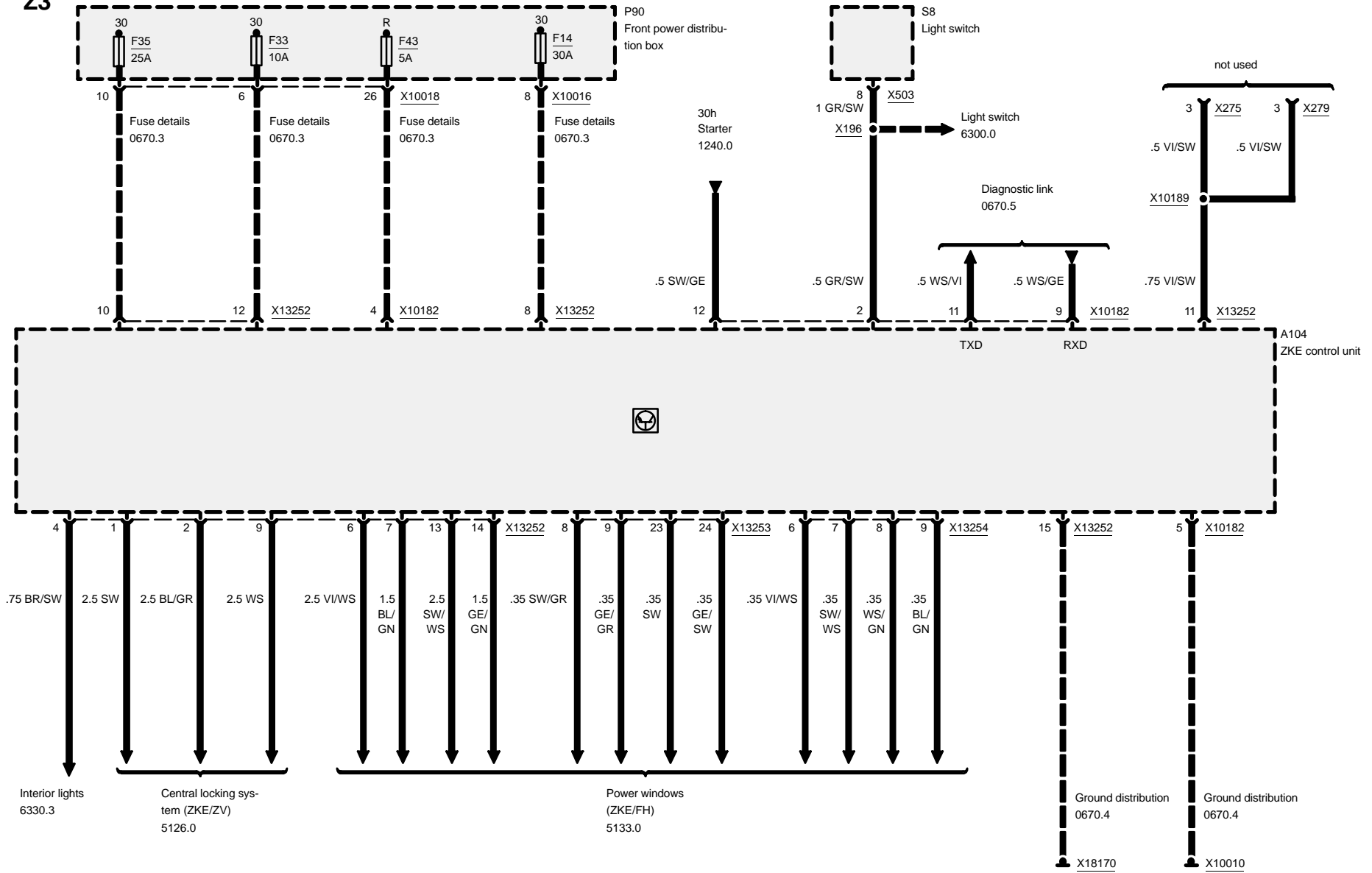
Pin	Type	Description/Function	Connection
14	E	Trunk lid contact	Luggage compartment light switch
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24	E	DWA signal	Radio protection for passenger compartment
25	A	DWA output	Tilt monitoring/interior protection with radio-wave motion sensor
26	A	Alarm signal	Antitheft horn (DWA)

E = Input, A = Output, M = Ground



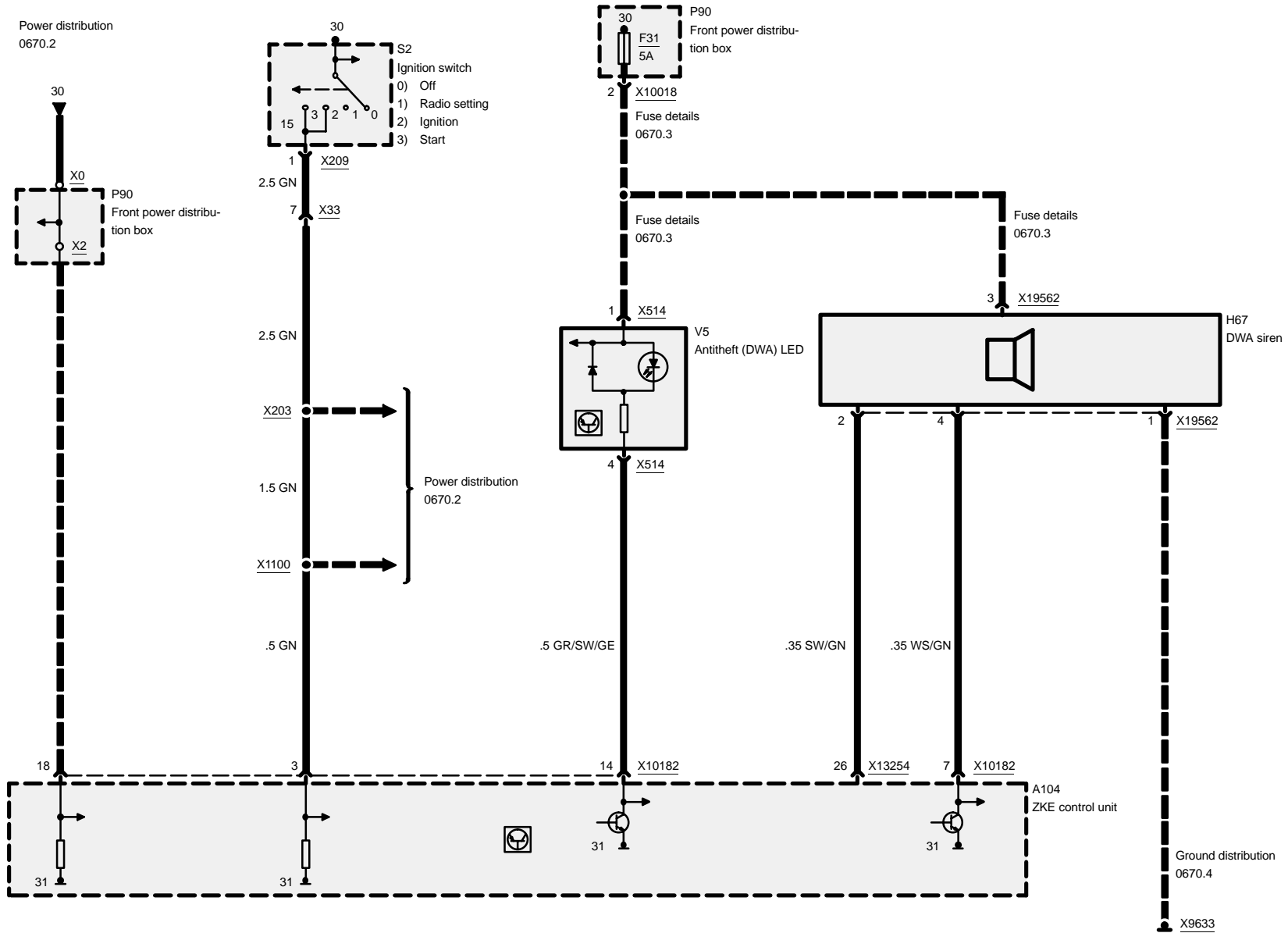
Central body electronics (ZKE IV)

Z3



Central body electronics (ZKE IV)

DWA, current, alarm horn

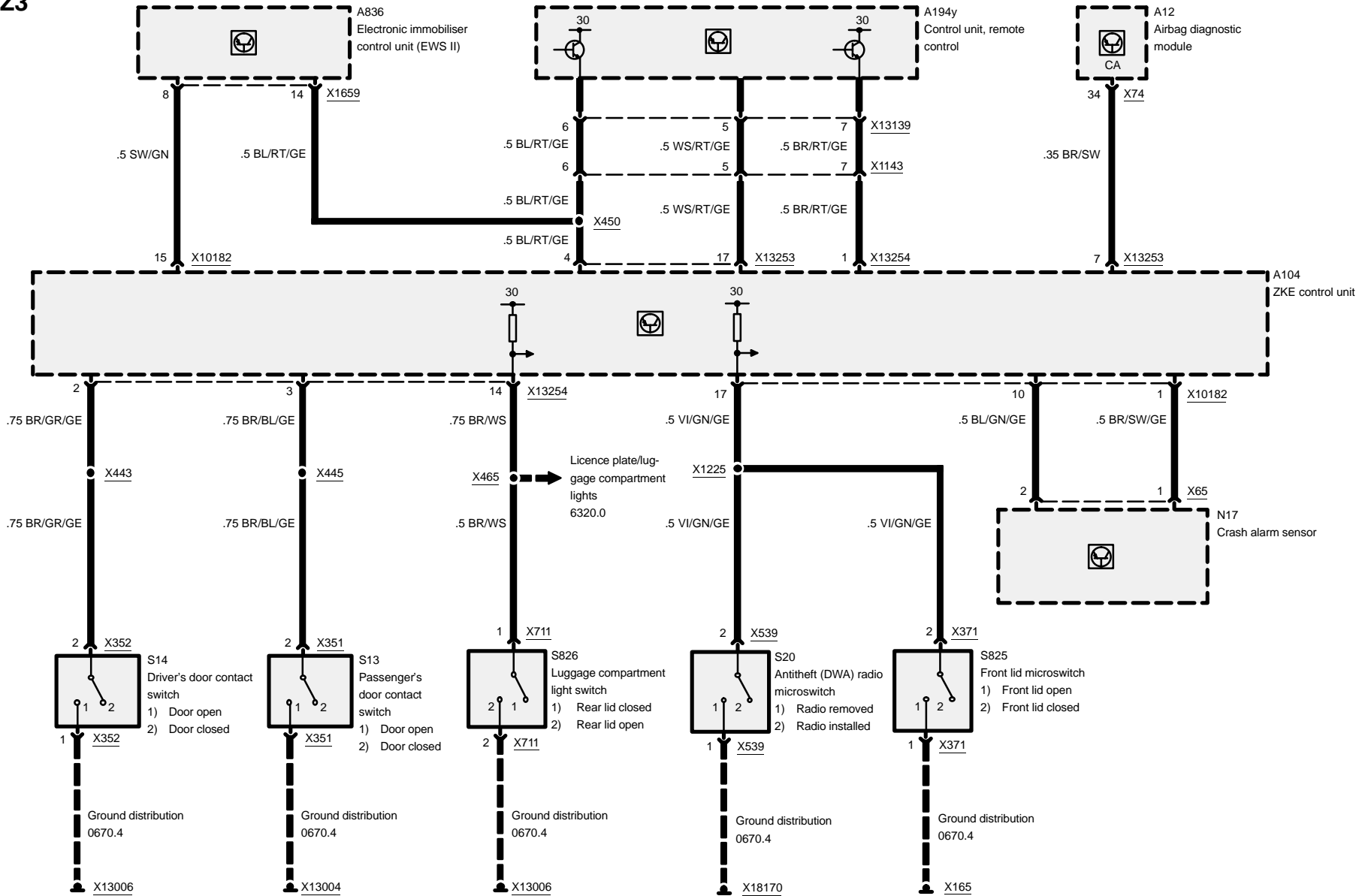




Central body electronics (ZKE IV)

DWA, current, door contacts, immobiliser, radio, front lid (bonnet)

Z3

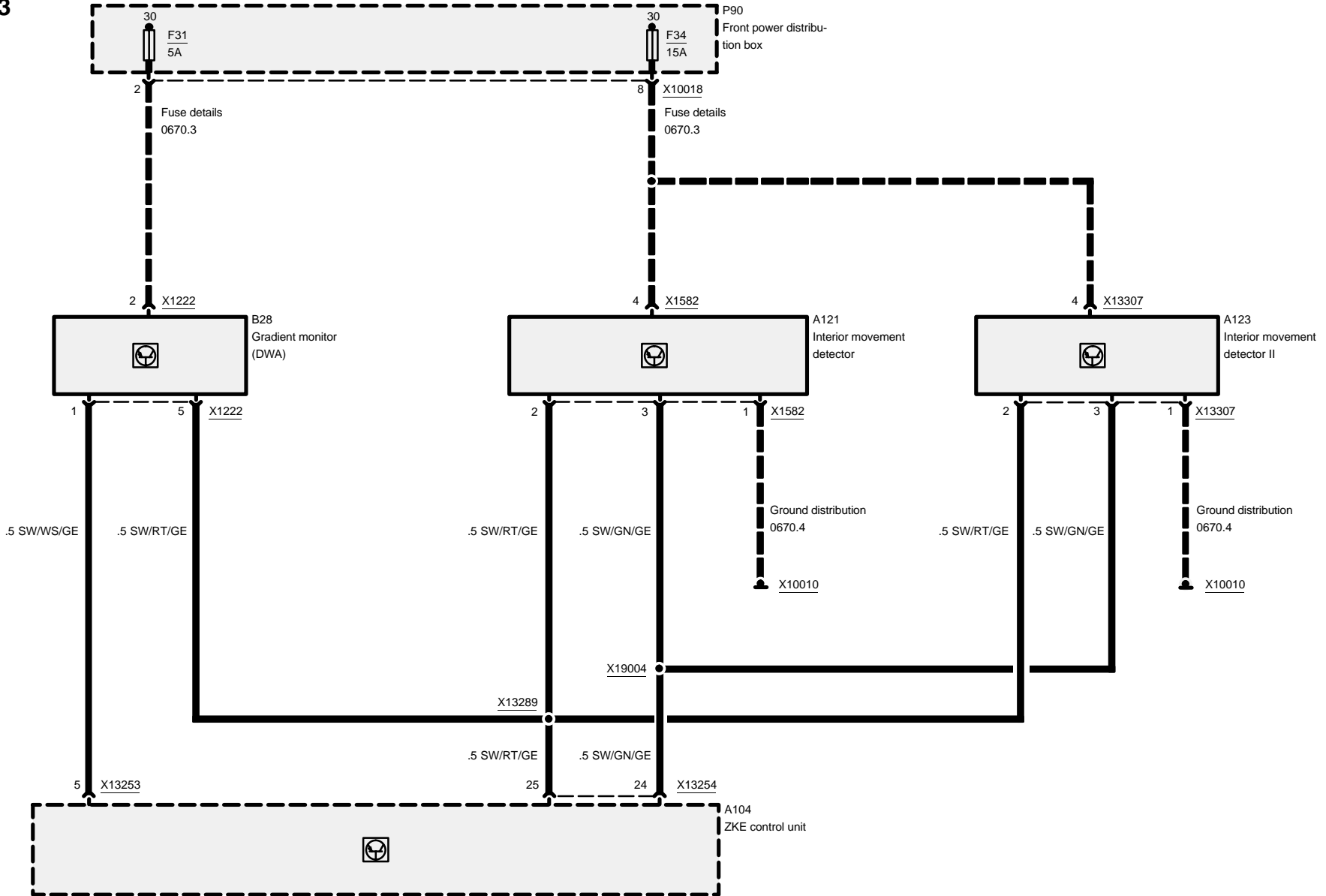




Central body electronics (ZKE IV)

DWA, tilt monitoring, interior movement detector (Later production)

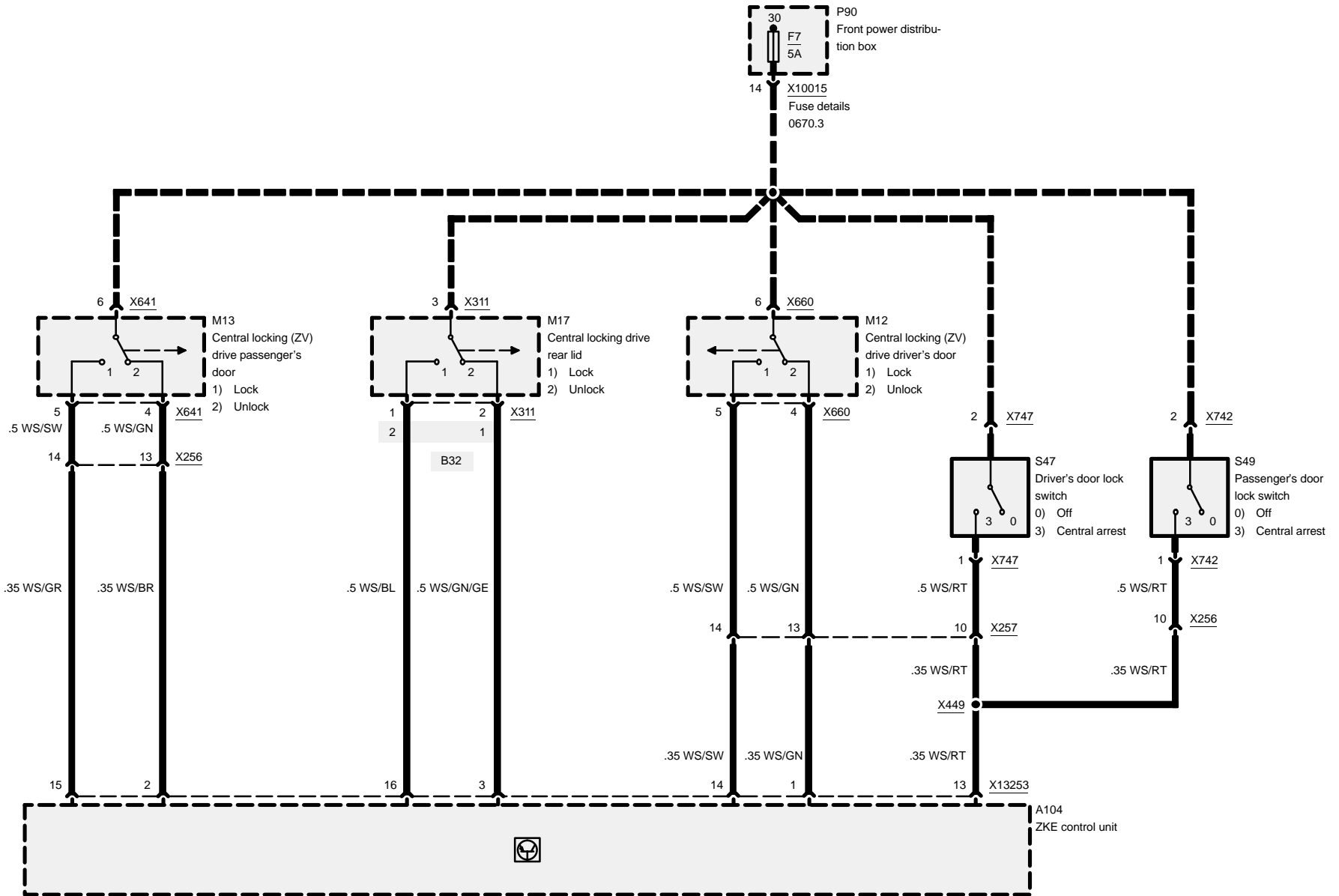
Z3



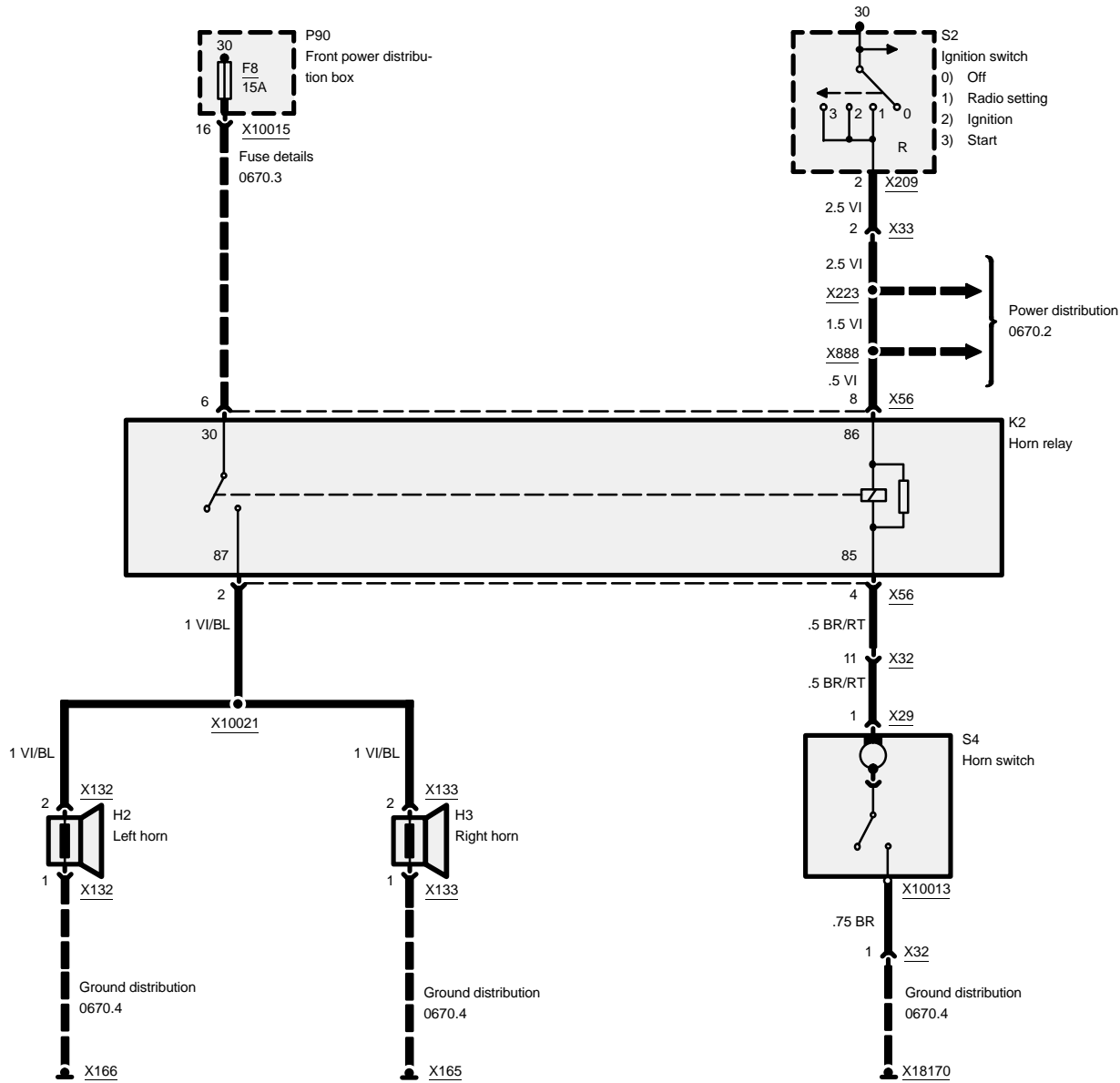


Central body electronics (ZKE IV)

DWA input signal rear lid, driver's door and front passenger's door



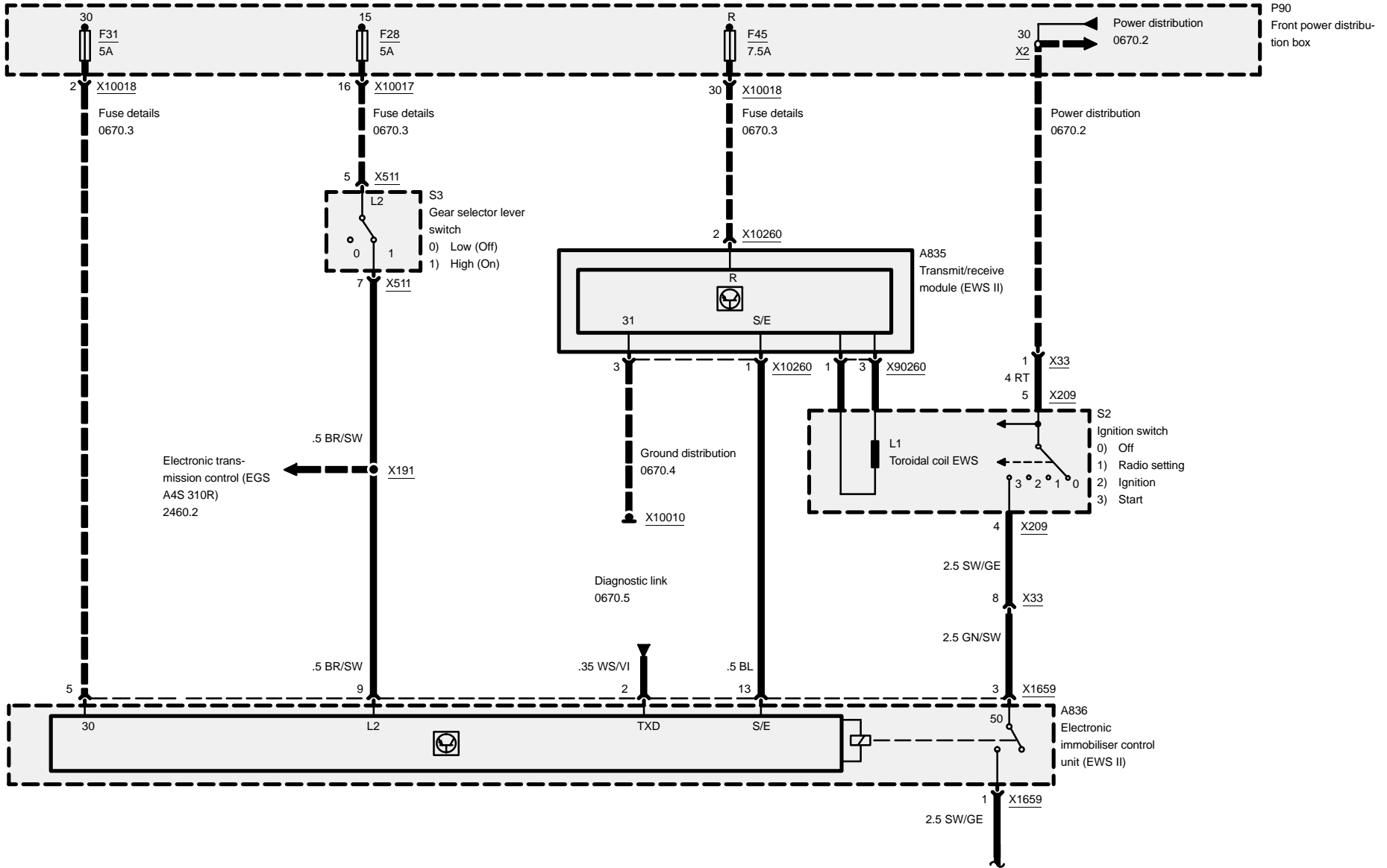
6133.0 Horn

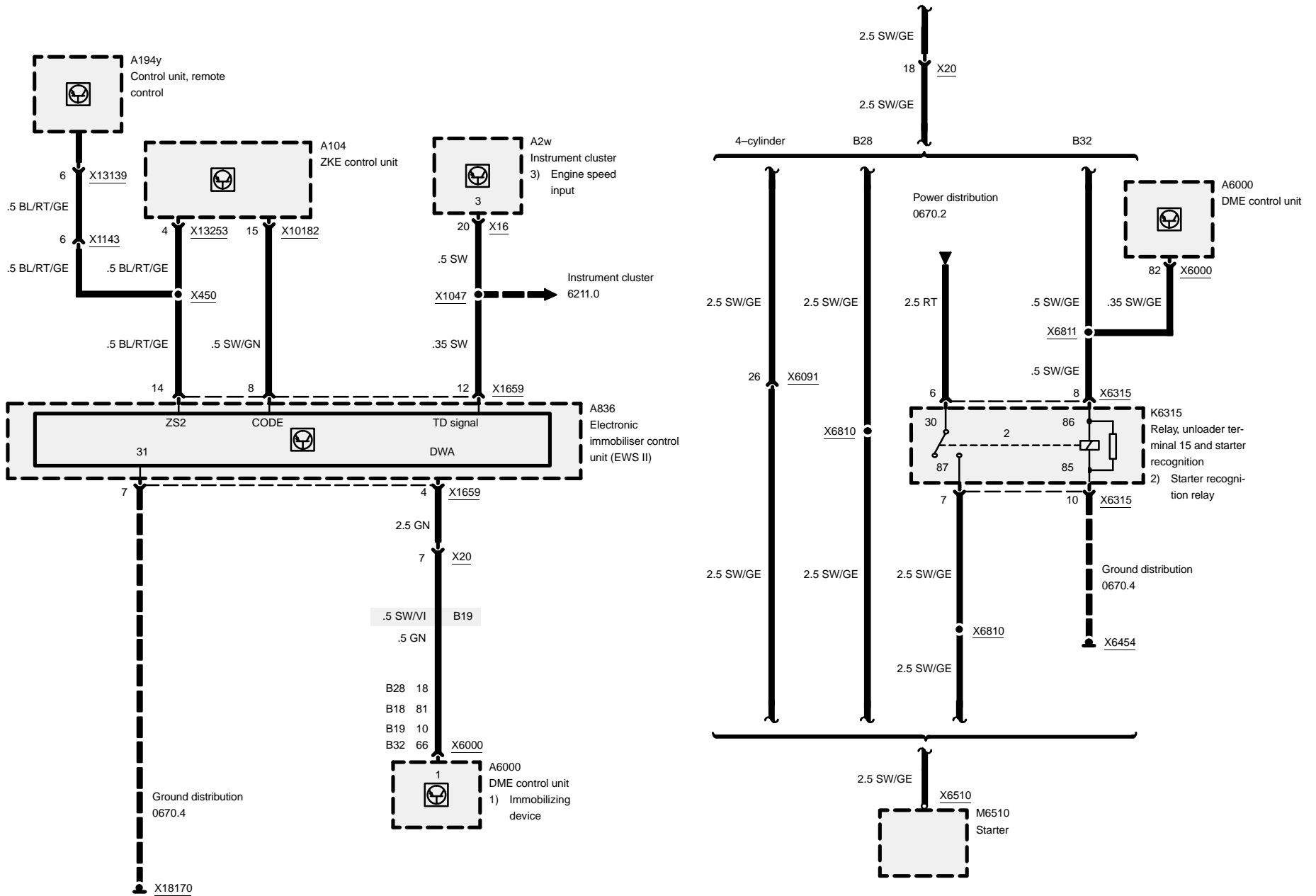




6135.0 Electronic immobiliser (EWS II)

Z3



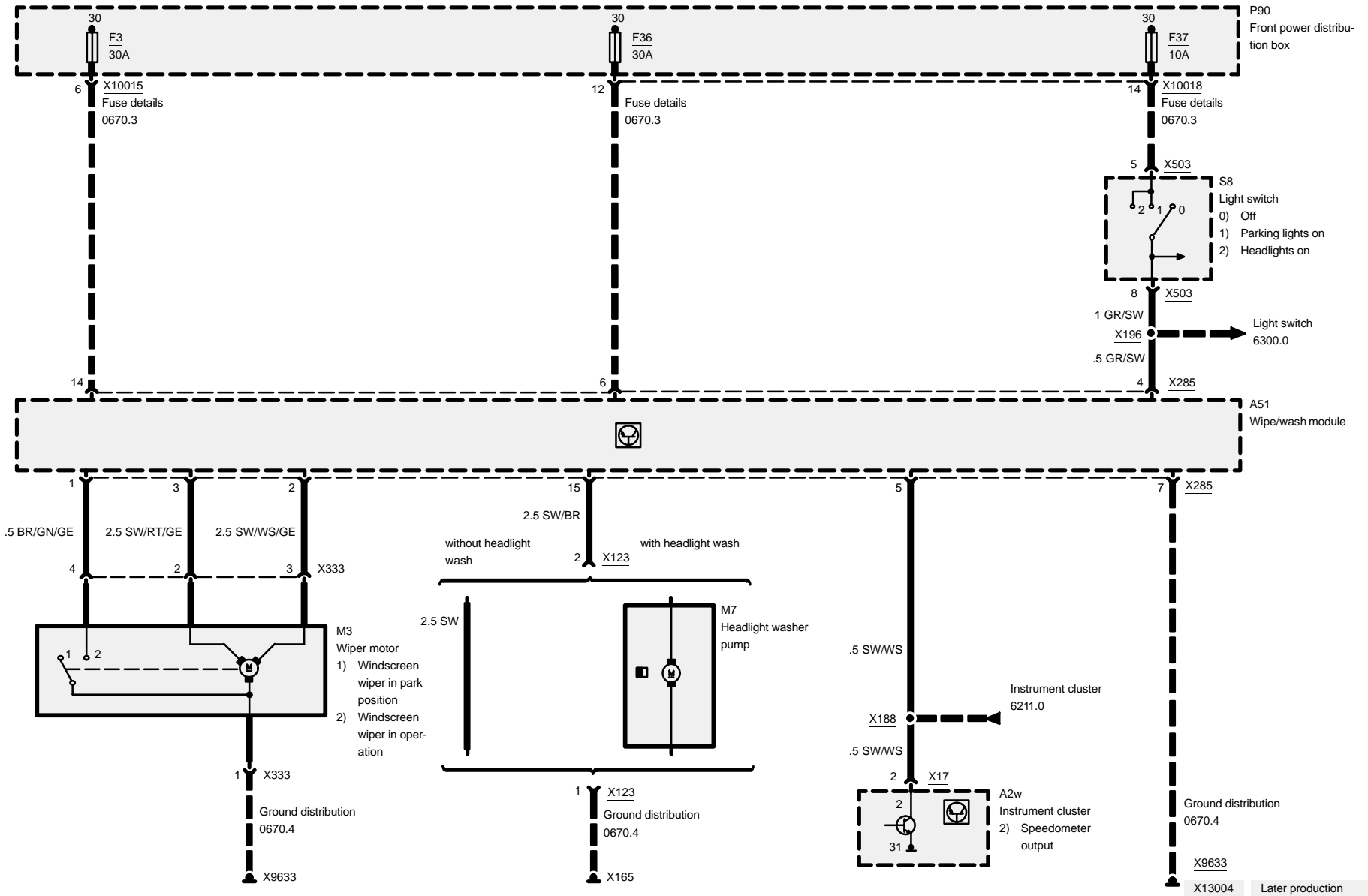




6160.1 Wipe/wash module (WWM)

Wiper - High

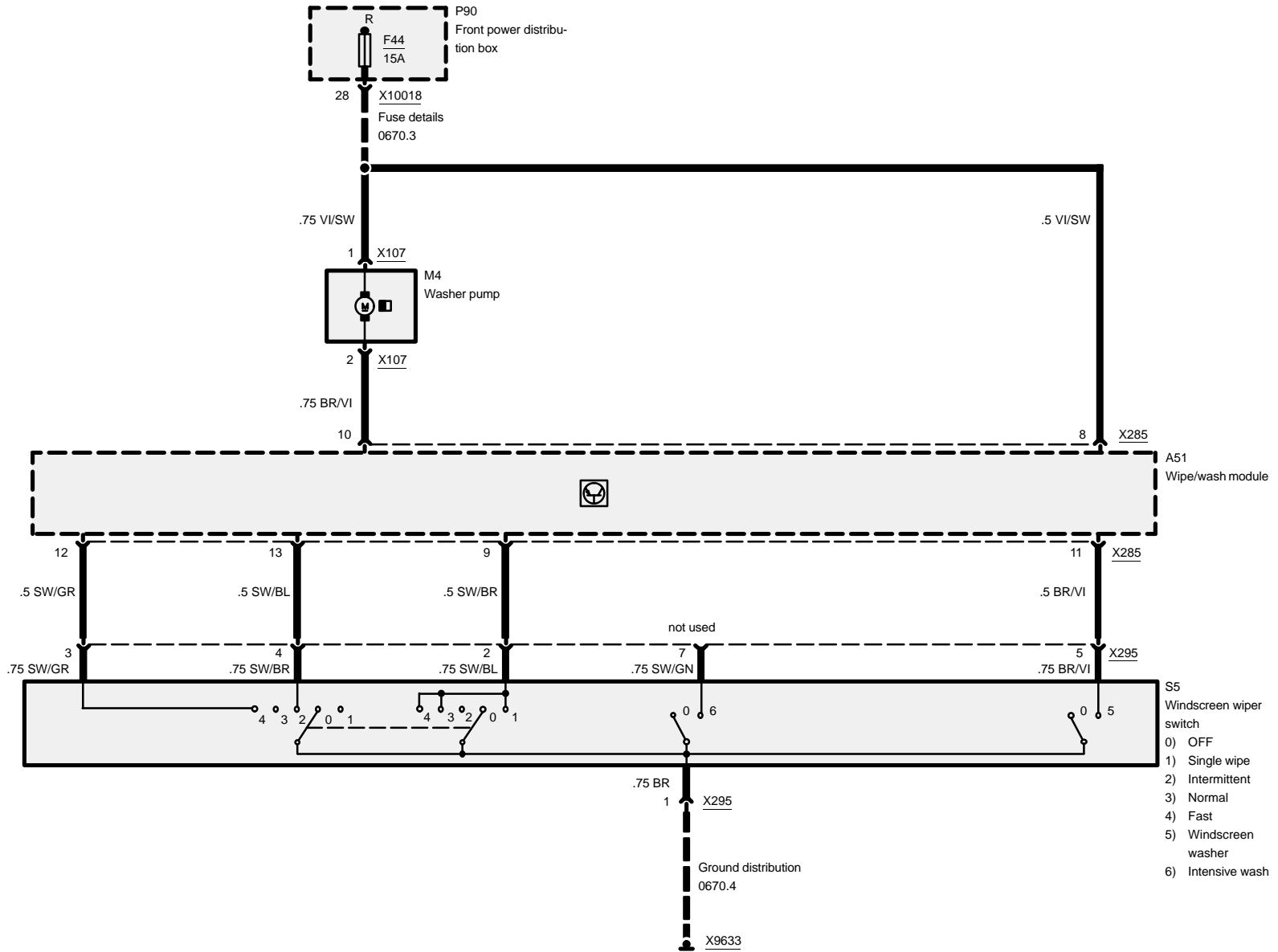
Z3





Wipe/wash module (WWM)

Washer – High

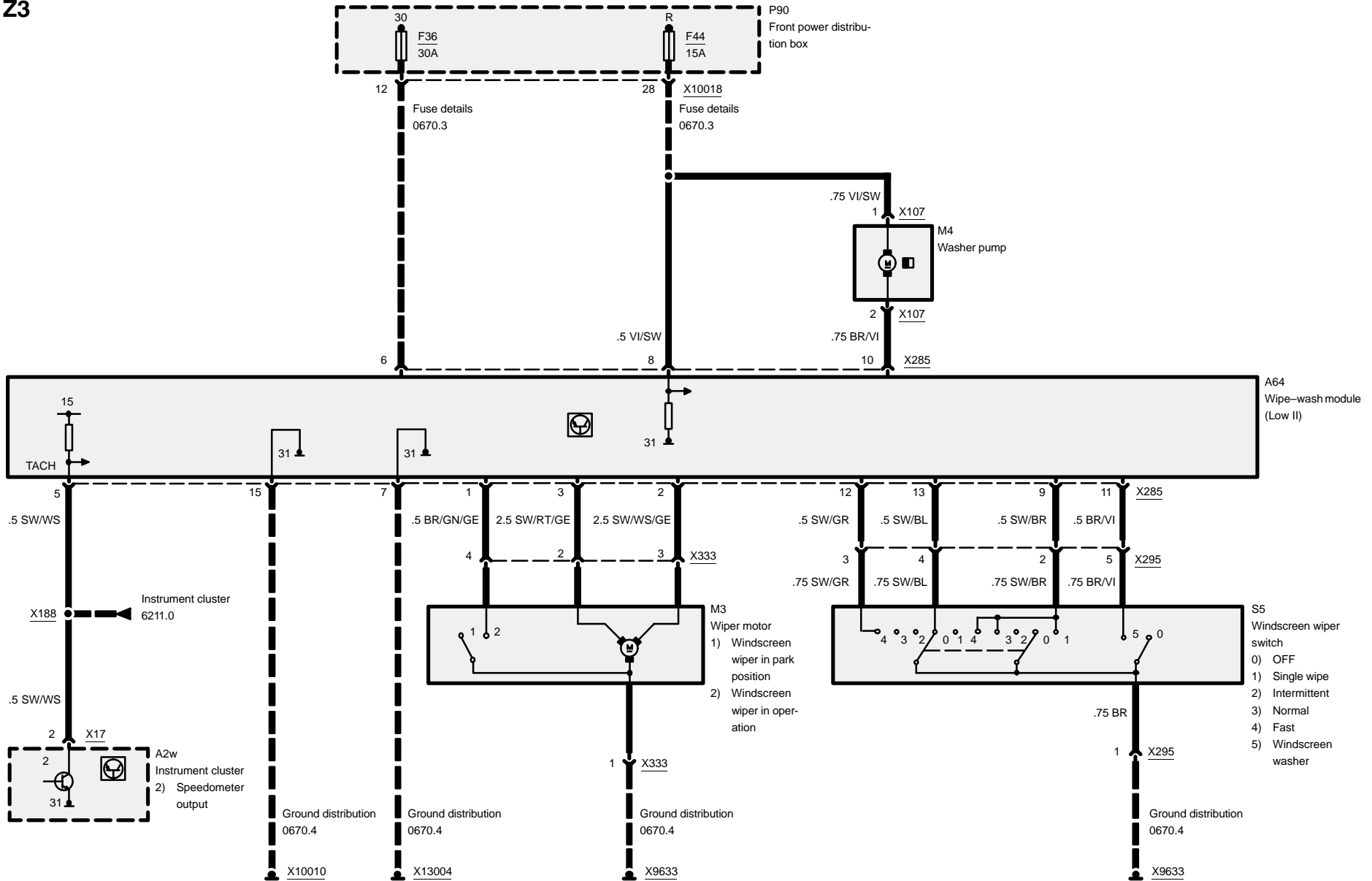




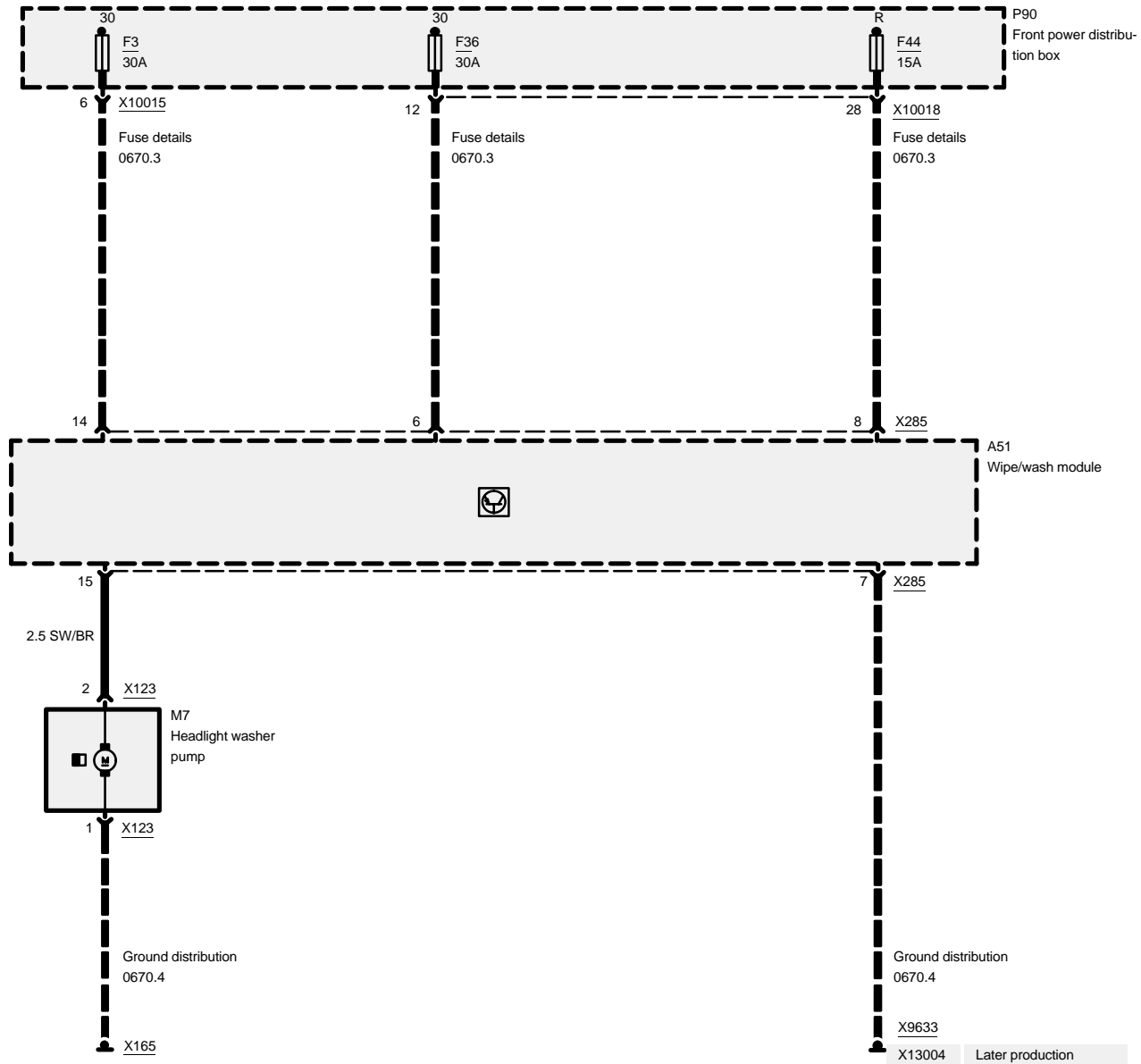
Wipe/wash module (WWM)

Washer – Low

Z3

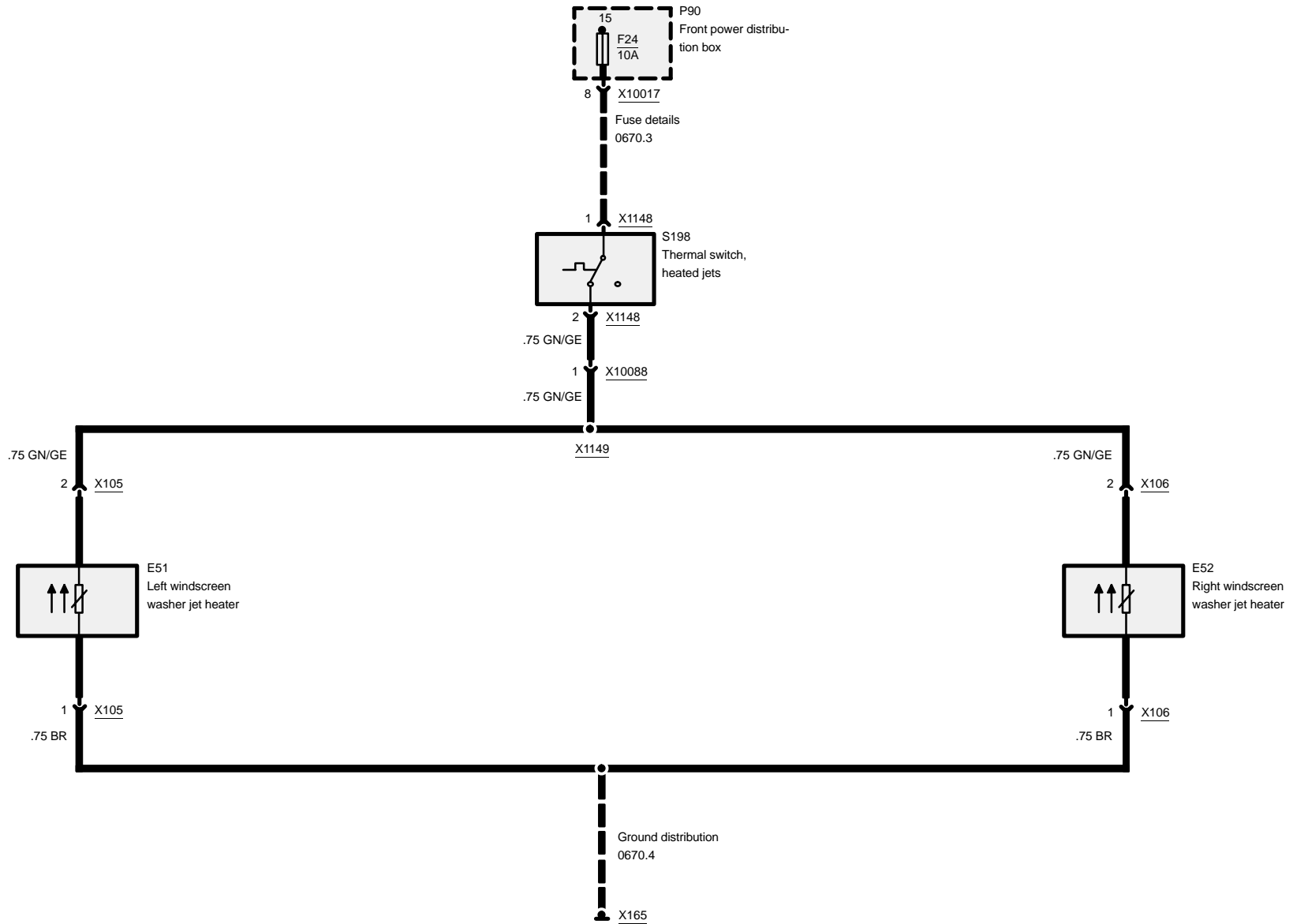


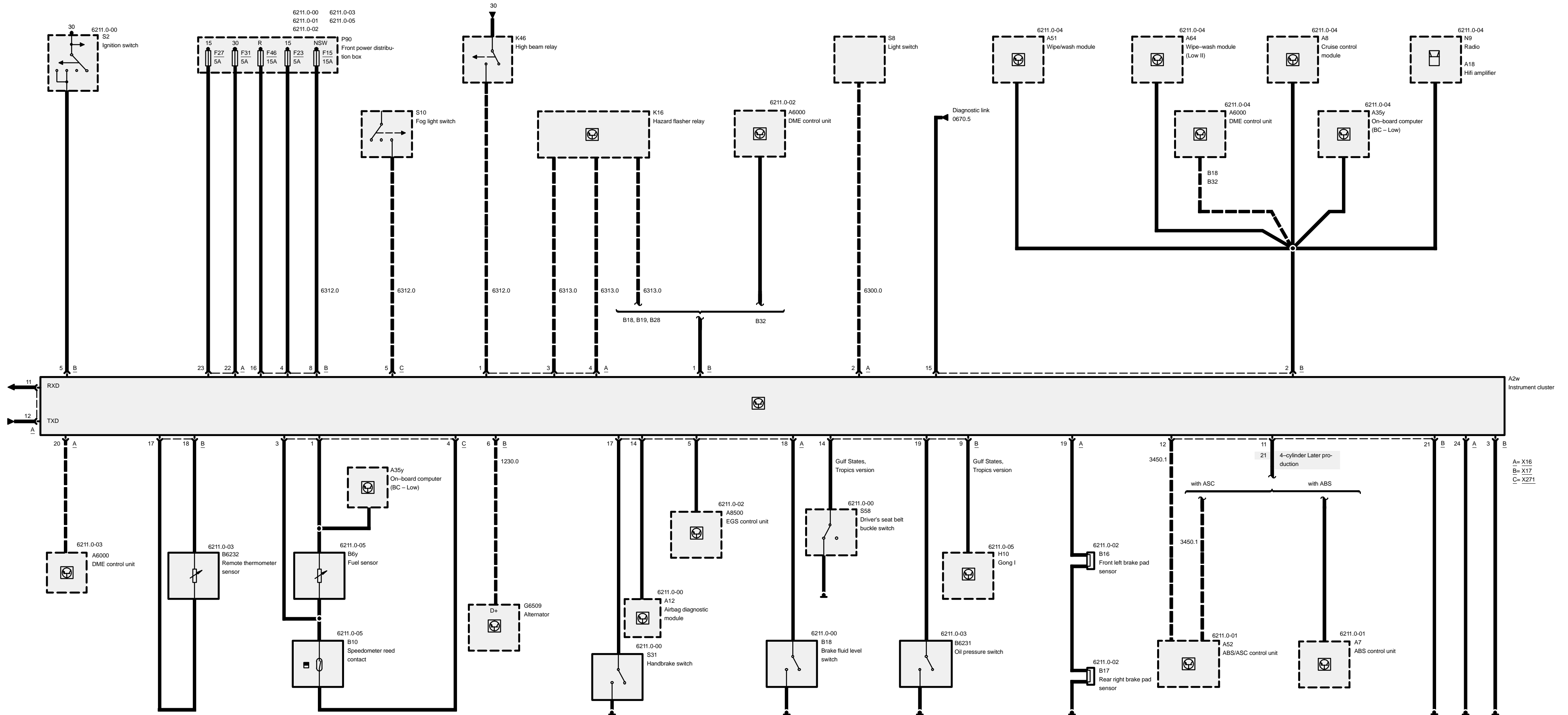
6167.1 Headlight washer system (SRA)





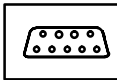
6169.0 Windscreen washer jet heaters







Z3

**Pin assignments**

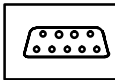
A=X16	26-pin, white
B=X17	26-pin, blue
C=X271	12-pin, black

X16

Pin	Type	Description/Function	Connection
1	E	Indicator light, high beam	High beam relay
2	E	Terminal 58g, instrument panel lights	Dimmer
3	E	Indicator lamp, turn signal indicator, right	Hazard warning light relay
4	E	Indicator lamp, turn signal indicator, left	Hazard warning light relay
5	E	Warning lamp, EGS fault/information signal gearbox oil temperature	EGS control unit
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11	A	RxD diagnostic link	Diagnostic connector
12	E/A	TxD diagnostic data link	Diagnostic connector
13		Not used	
14	E	Warning light, airbag	Airbag control unit
15		Not used	
16		Not used	
17	E	Warning light, handbrake	Handbrake switch
18	E	Warning light, brake fluid	Brake fluid level switch
19	E	Warning lamp, brake pad wear	Brake pad sensor, front left
20	E	TD signal (rpm signal)	DME control unit
21		Not used	
22	E	Terminal 30	Fuse F31
23	E	Terminal 15/voltage supply for indicator and warning lamps	Fuse F27
24	M	Terminal 31/ground supply for instrument cluster electronics	Ground

E = Input, A = Output, M = Ground

Z3



Pin assignments

Pin	Type	Description/Function	Connection
25		Not used	
26		Not used	

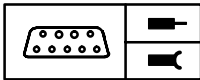
X17

Pin	Type	Description/Function	Connection
1	E	Indicator lamp, trailer turn signal indicator	Hazard warning light relay
1	E	Oil level	DME control unit (B32)
2	A	Speedometer A-signal	Various control units
3	M	Terminal 31/ground supply for indicator and warning lamps	Ground
4	E	Terminal 15/voltage supply for instrument cluster electronics	Fuse F23
5	E	Terminal 15/power supply for battery charge indicator lamp	Ignition switch
6	E	Terminal 61/power supply for battery charge indicator lamp	Alternator
7		Not used	
8	E	Indicator lamp front fog light	Front power distribution box
9	A	Acoustic output/acoustic warning signal	Acoustic sensor (gong)
10		Not used	
11	E	Warning lamp, antilock brake system (ABS)	ASC/ABS control unit
12	E	Warning lamp, automatic stability control (ASC)	ASC control unit
13		Not used	
14	E	Warning lamp, belt warning	Seat belt contact (Gulf States and Tropics)
15	E	S/A reset/service interval indicator	Diagnosis socket
16	E	Terminal R	Fuse F46
17	E	Coolant temperature sensor (-)	Coolant temperature sensor
18	E	Coolant temperature sensor (+)	Coolant temperature sensor
19	E	Warning light, oil pressure	Oil pressure switch
20		Not used	
21	M	Ground	Ground connection
	E	Warning lamp, antilock brake system (ABS)	ABS/ASC control unit (4-cylinder later production)
22		Not used	

E = Input, A = Output, M = Ground



Z3

**Pin assignments**

Pin	Type	Description/Function	Connection
23		Not used	
24		Not used	
25		Not used	

X271

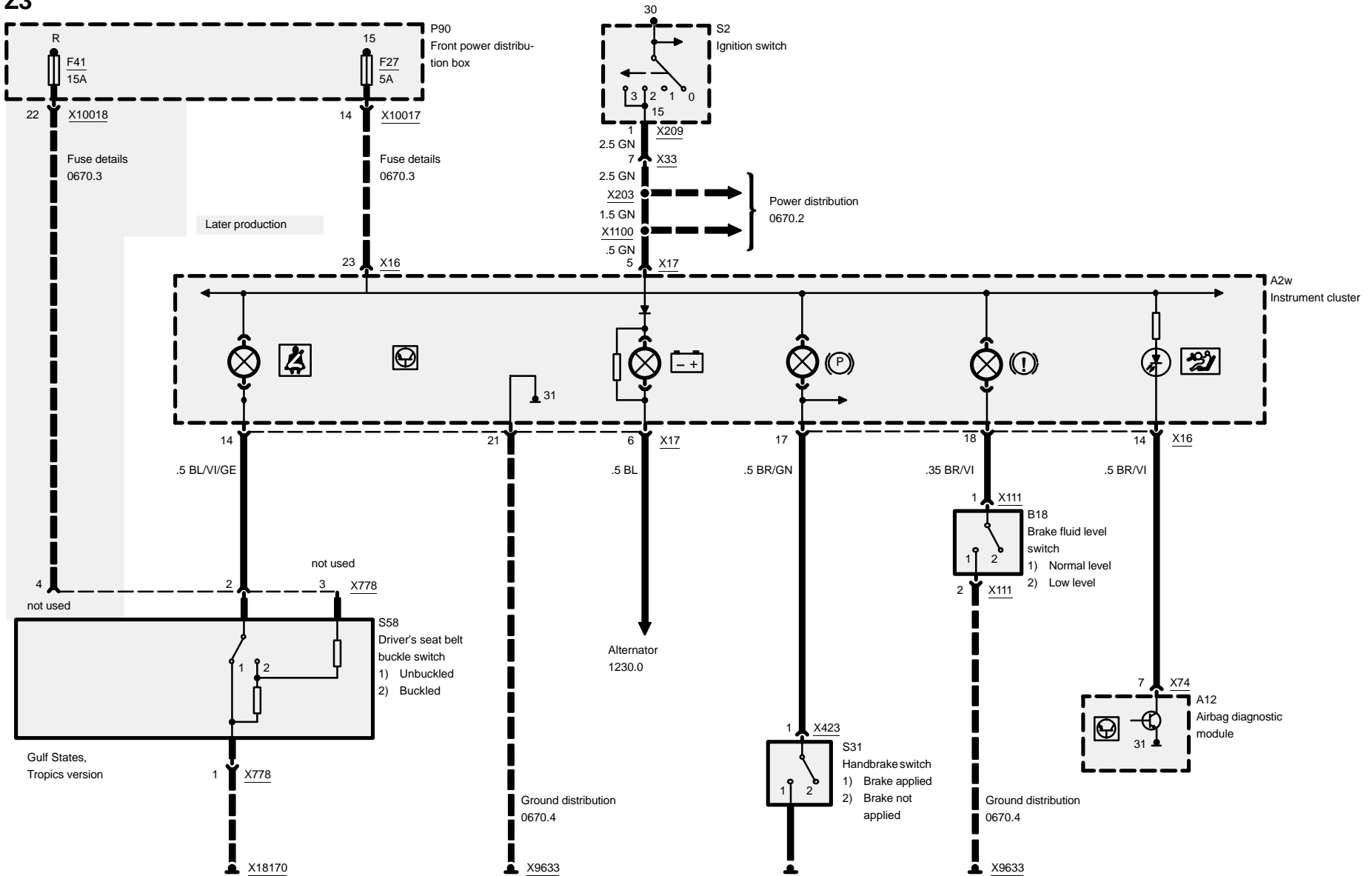
Pin	Type	Description/Function	Connection
1	A	Fuel tank sensor/fuel level sensor	Fuel tank sensor
2		Not used	
3	A	Fuel tank sensor, position signal generator (reed contact)	Ground, terminal 31b
4	E	Position signal TW	Position signal generator (reed contact)
5	E	Indicator lamp, rear fog light	Rear fog lamp switch
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	



Instrument cluster

Instrument cluster gauges

Z3

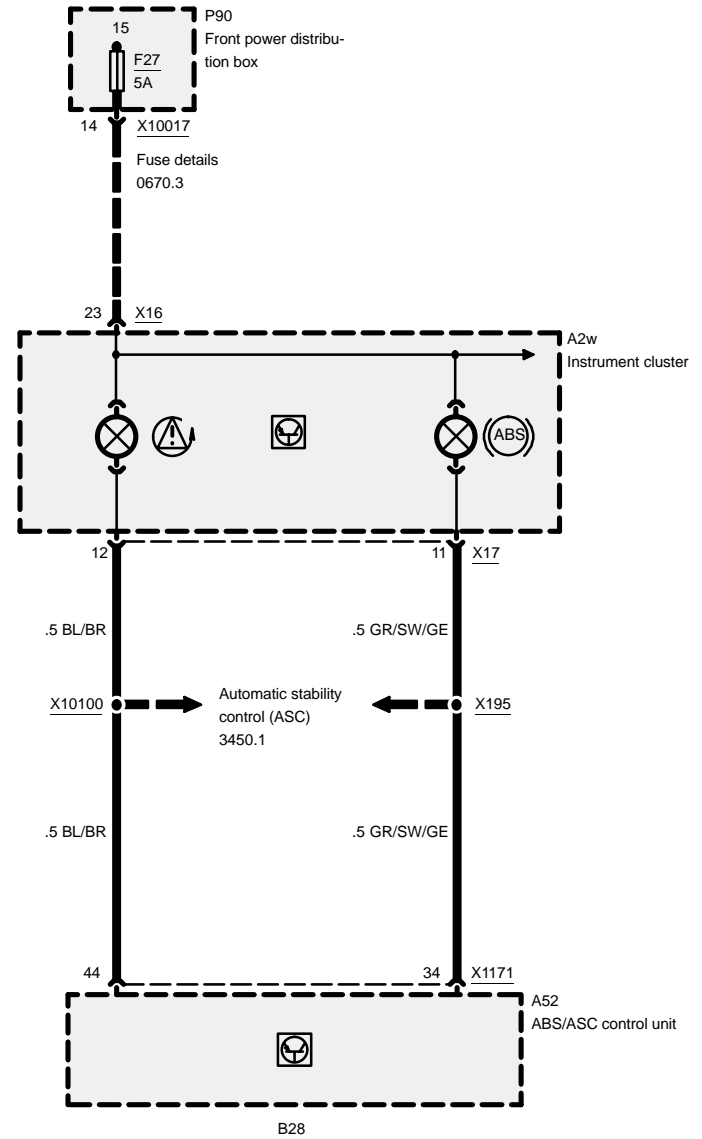
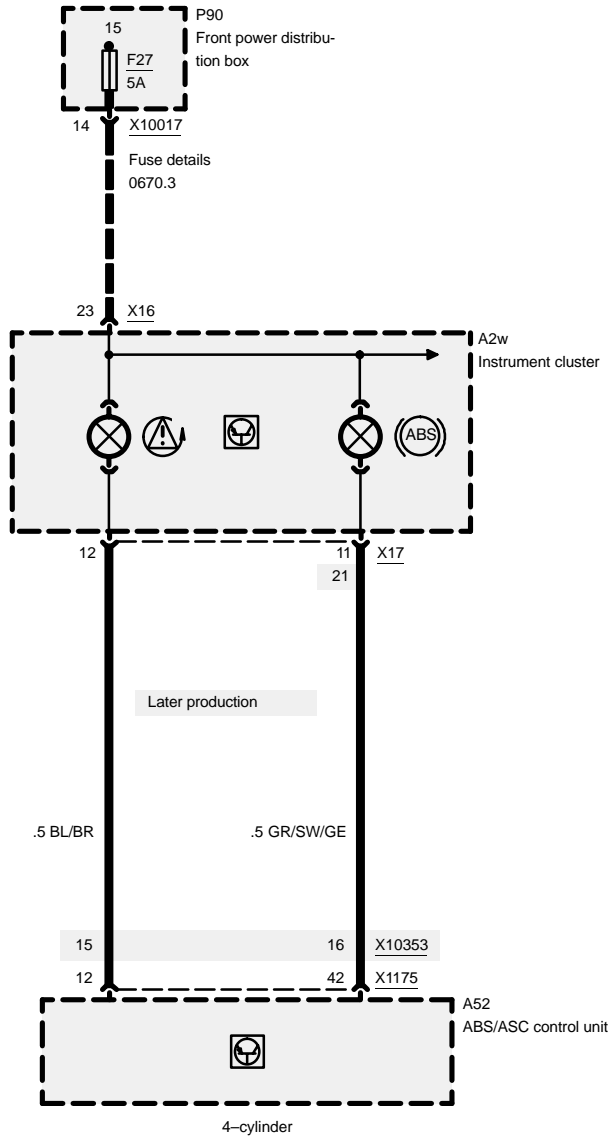
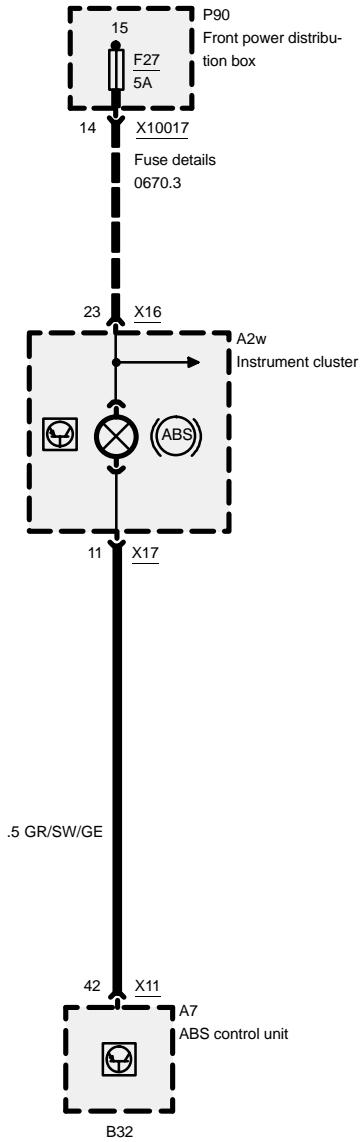




Instrument cluster

Instrument cluster – ABS and ASC indicators

Z3

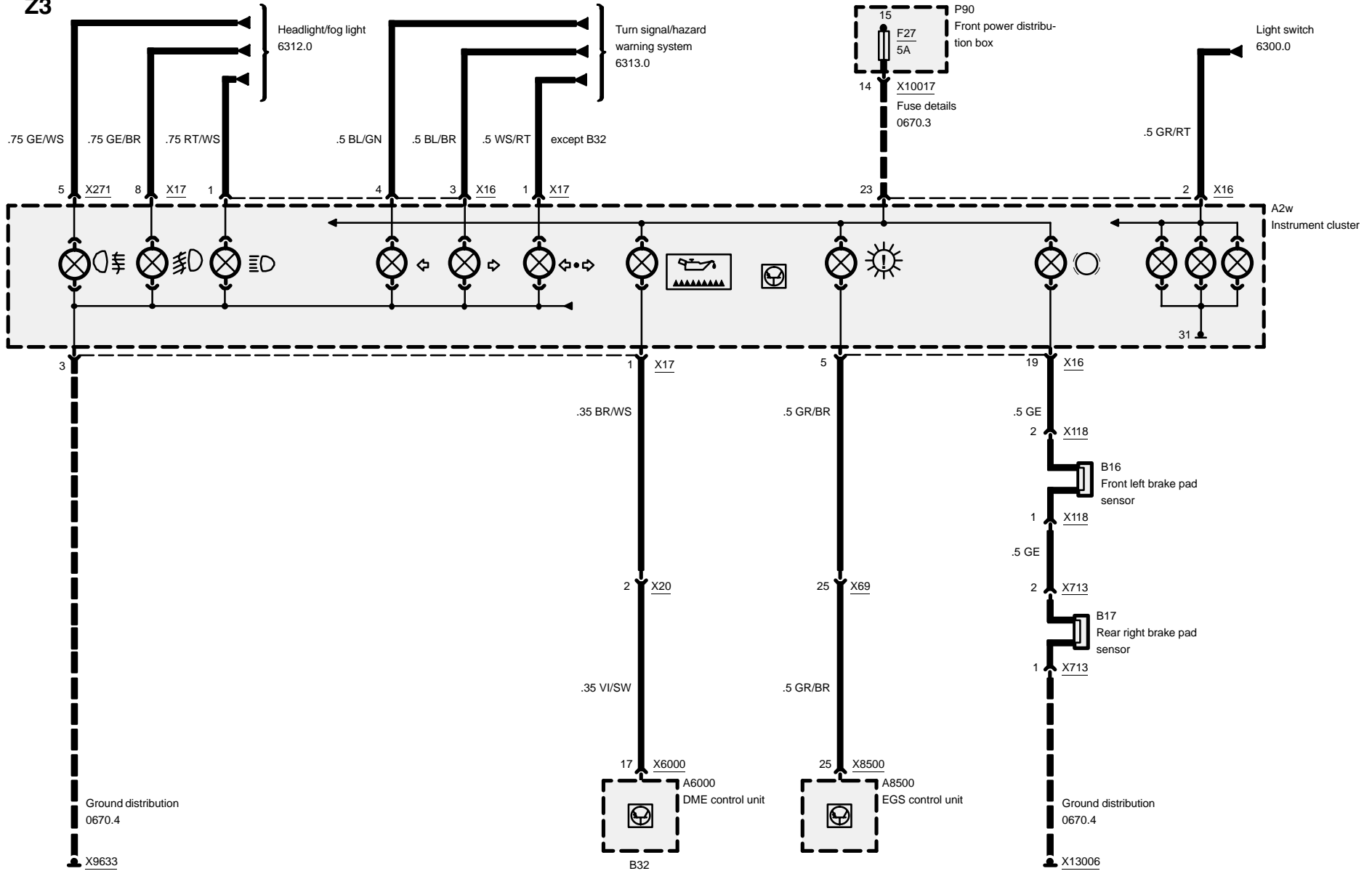




Instrument cluster

Instrument cluster gauges

Z3

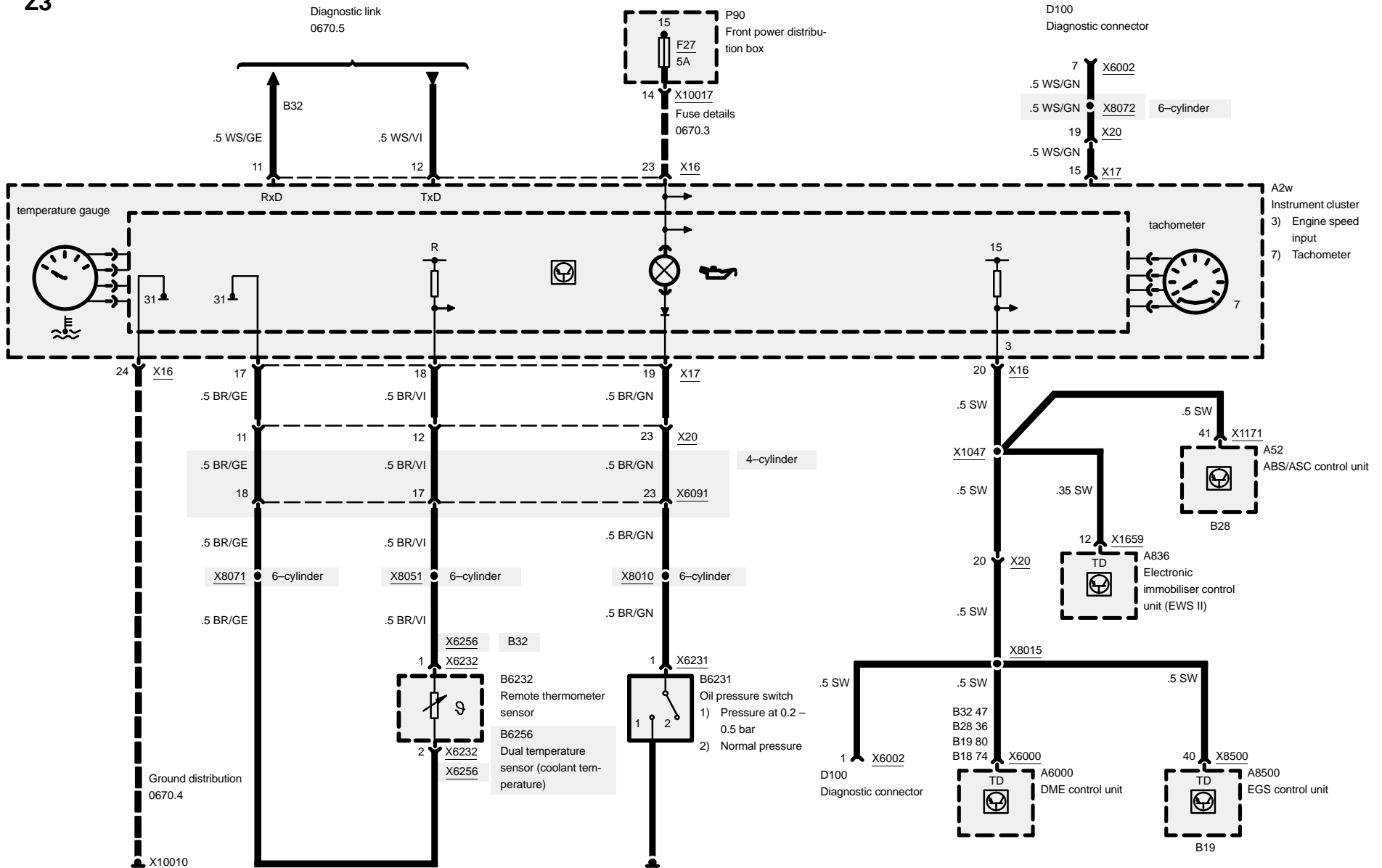




Instrument cluster

Instrument cluster gauges

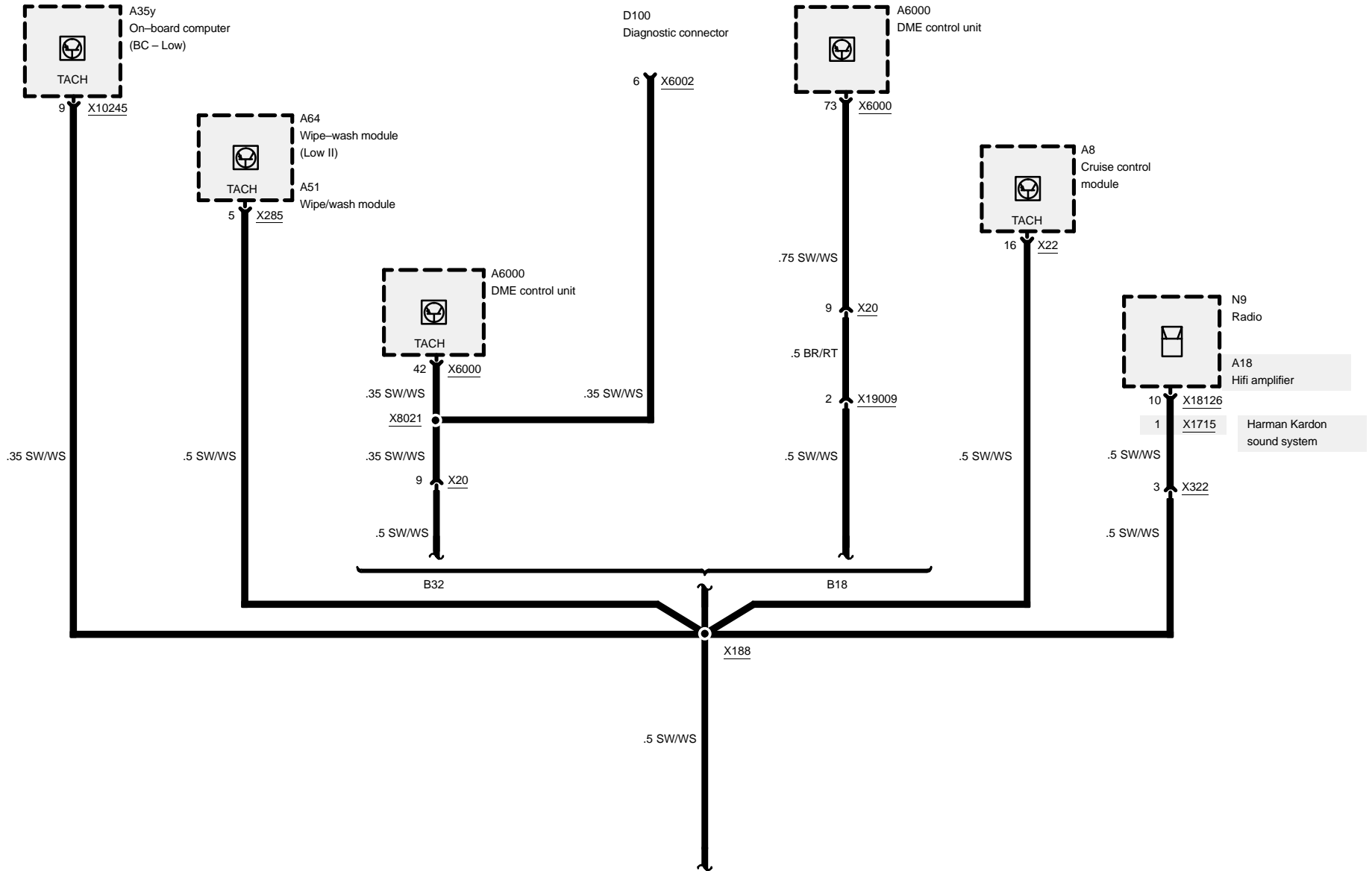
Z3

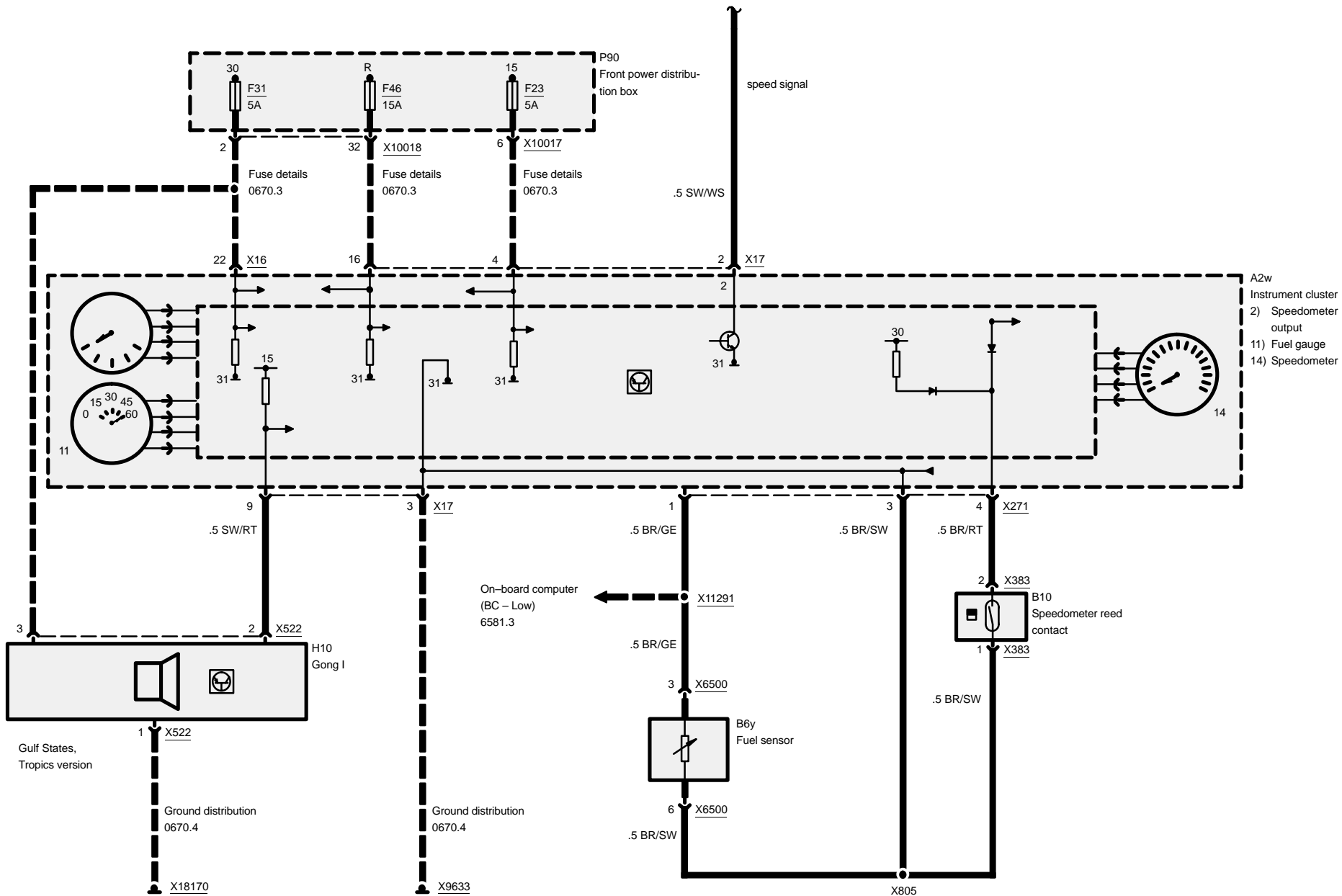




Instrument cluster

Speed output signal





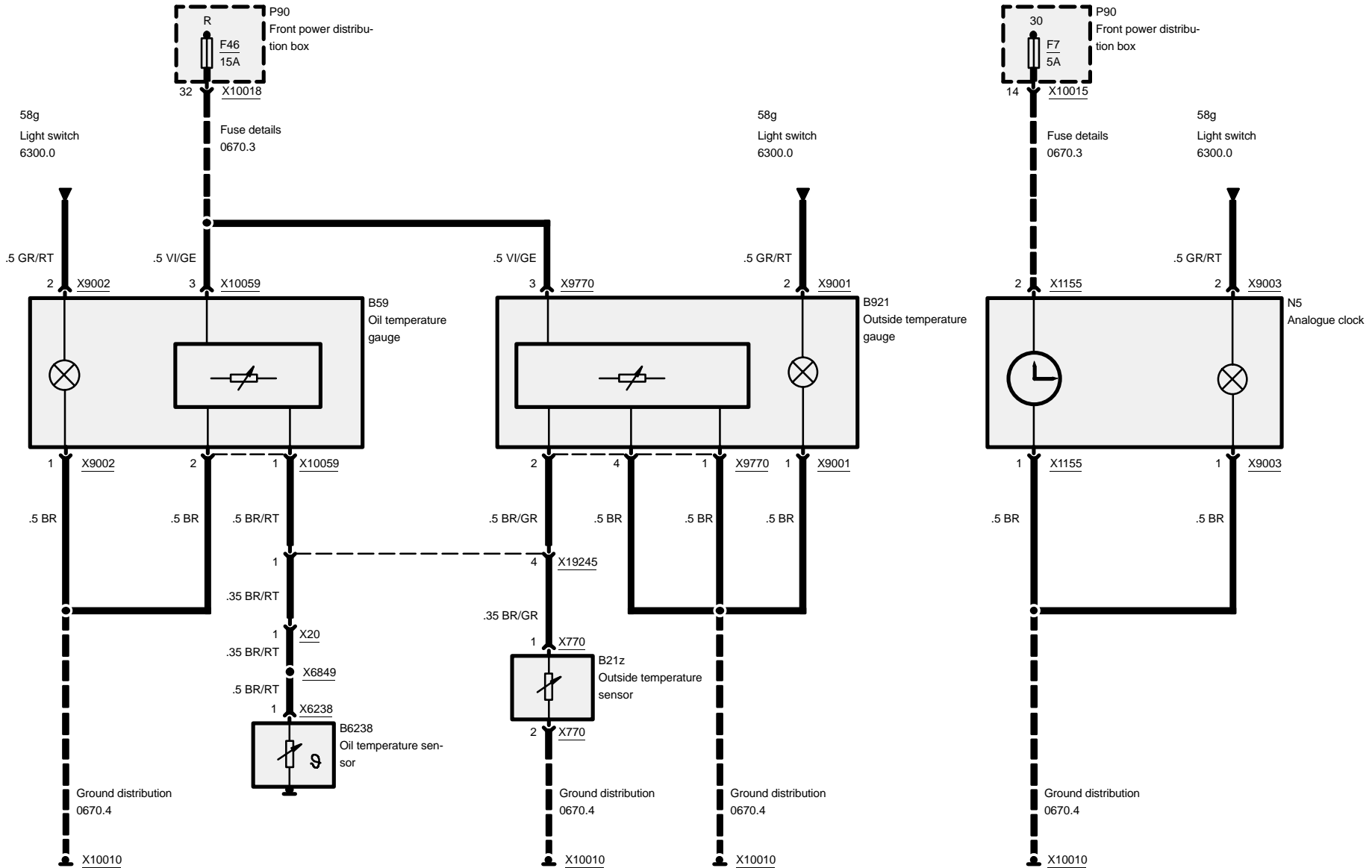


Instrument cluster

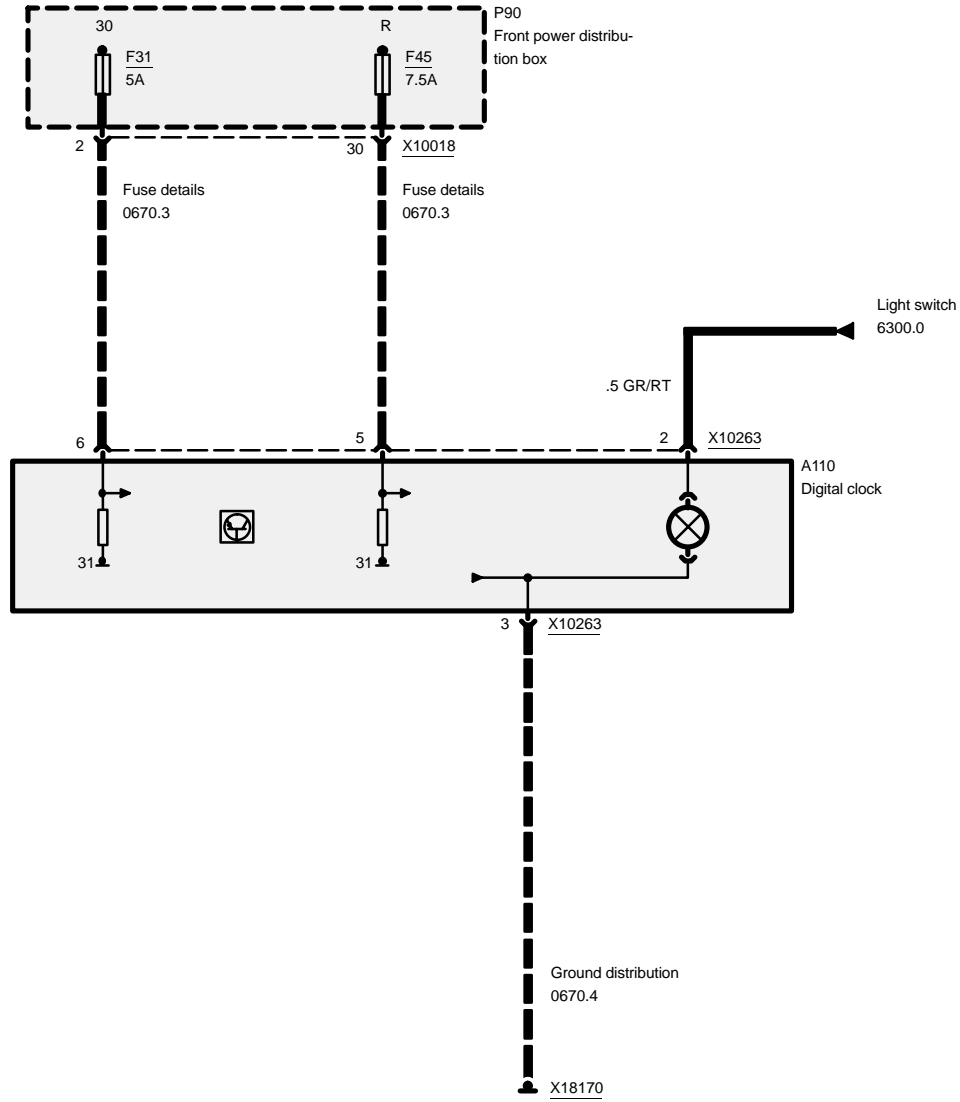
Console instruments

Z3

B32



6213.3 Digital clock

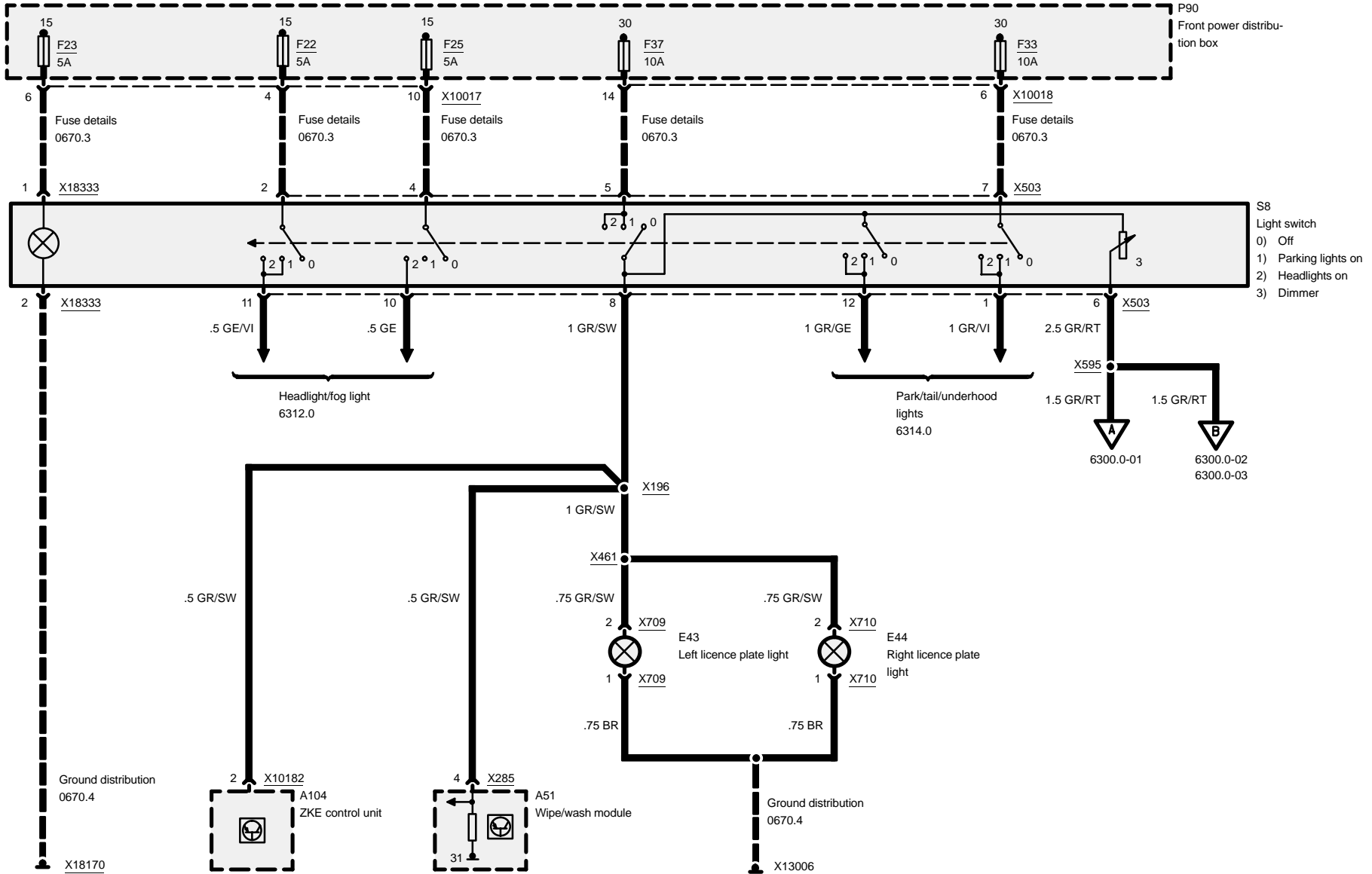




6300.0 Light switch

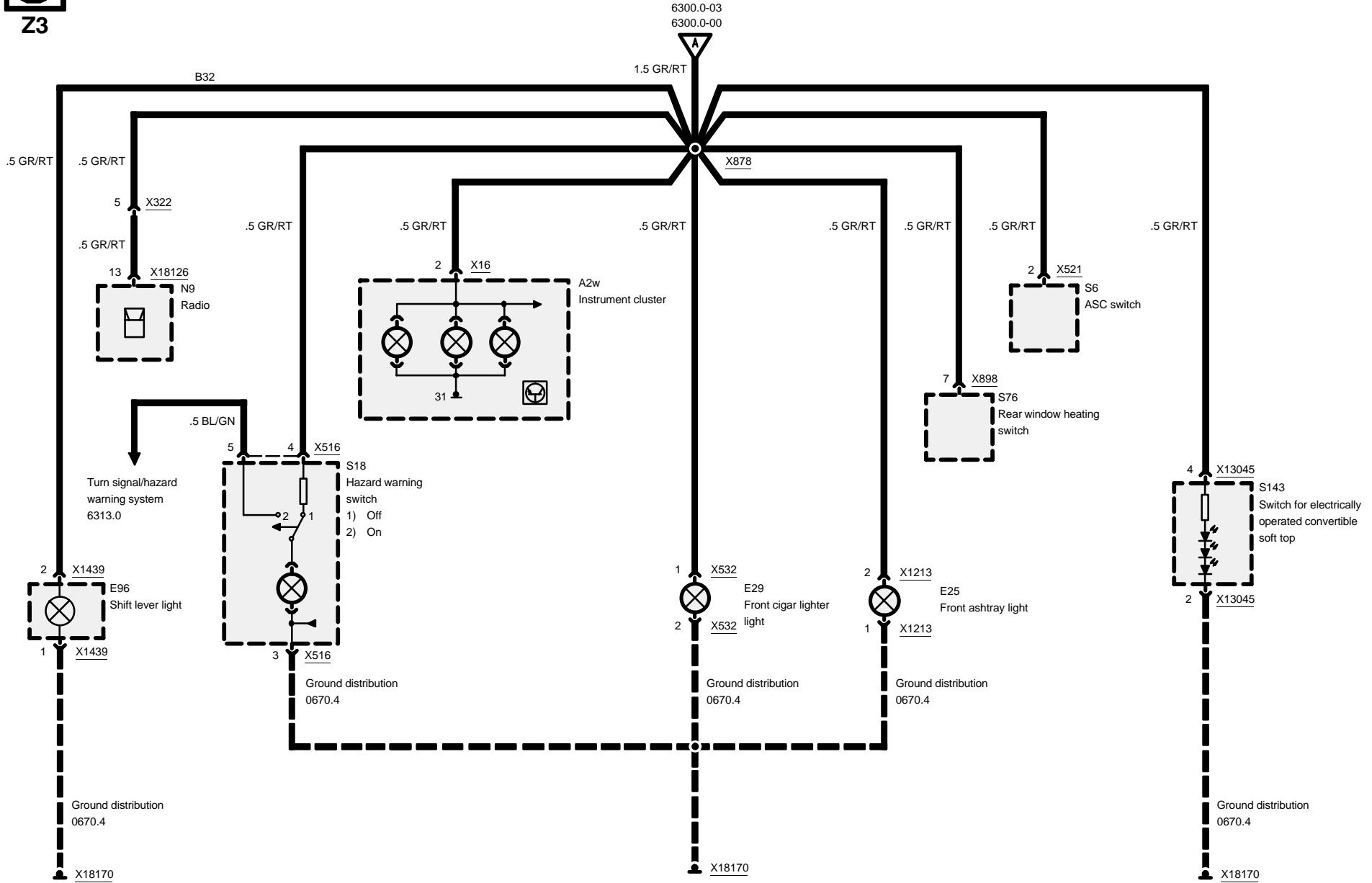


Z3

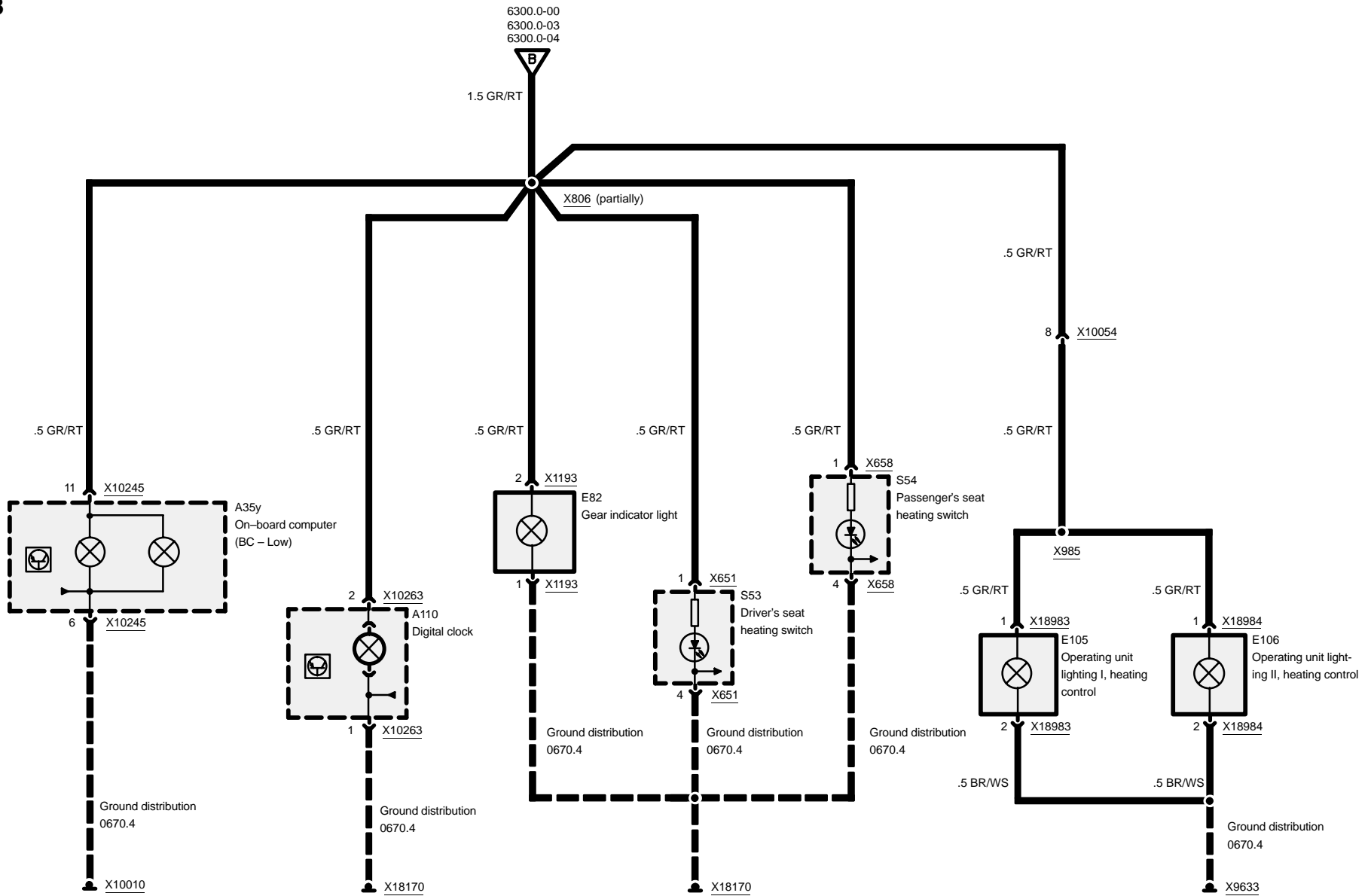




Light switch



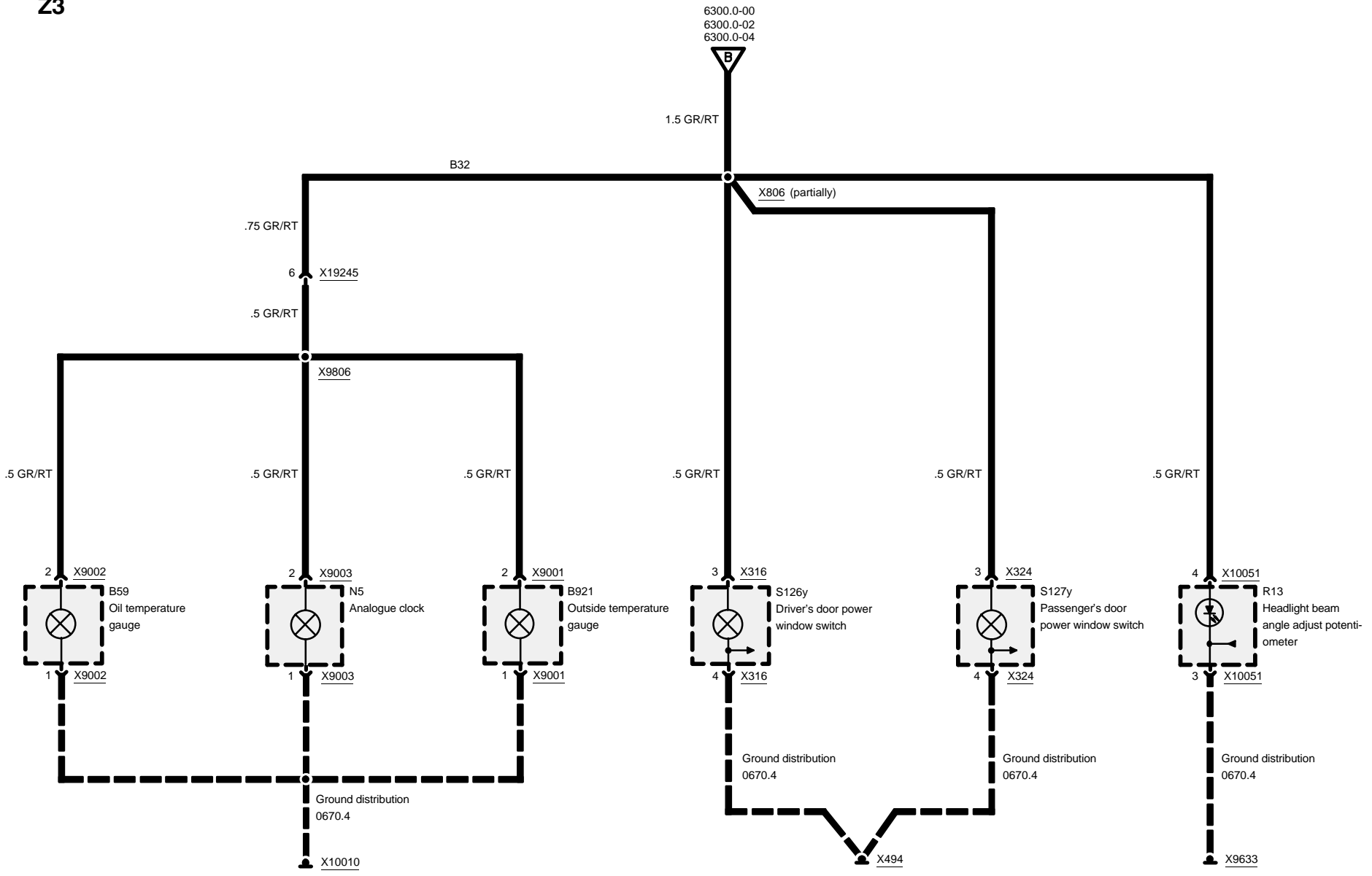
Light switch





Light switch

Z3



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6300.0-03

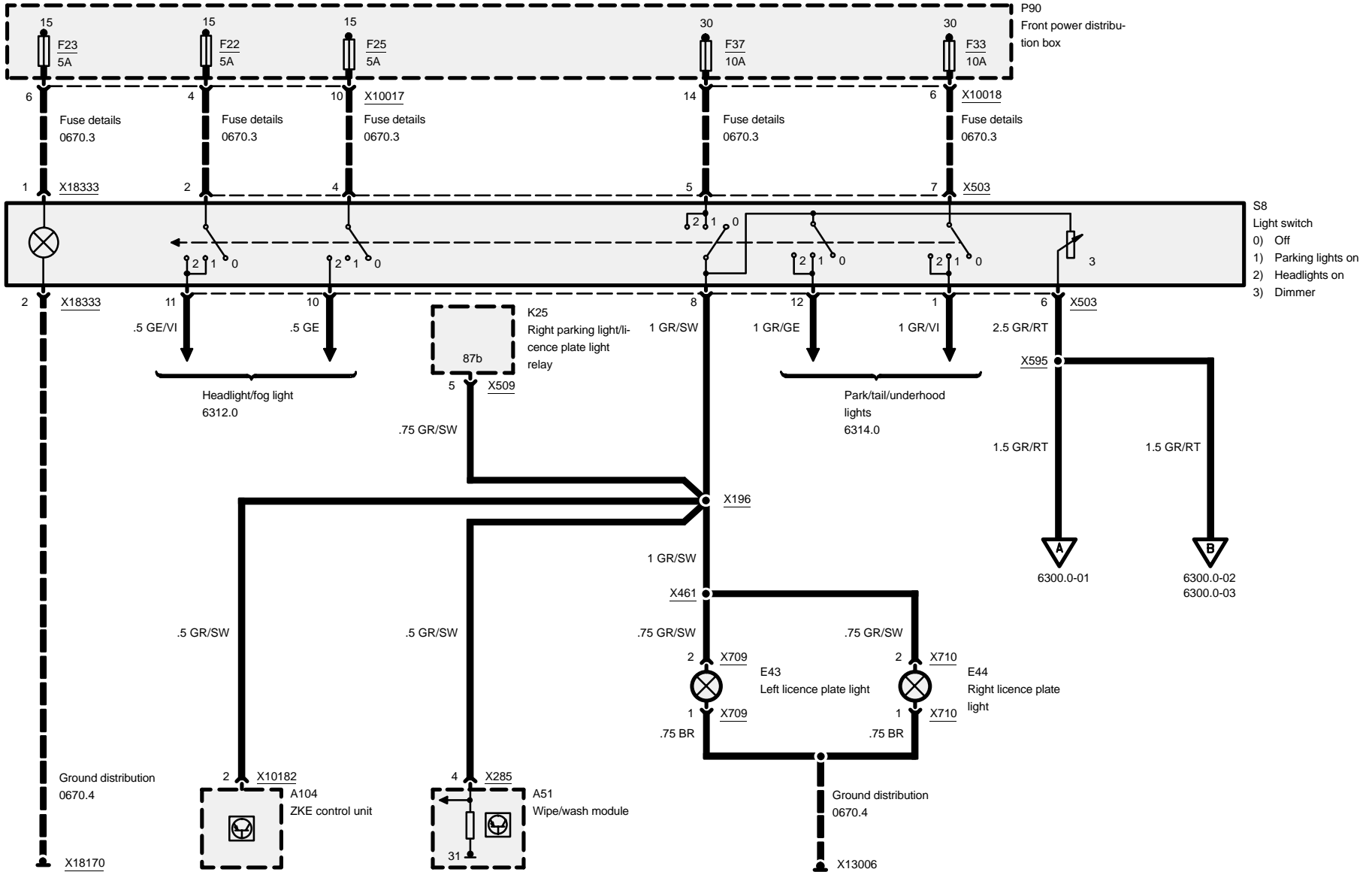
1998



Light switch



Z3



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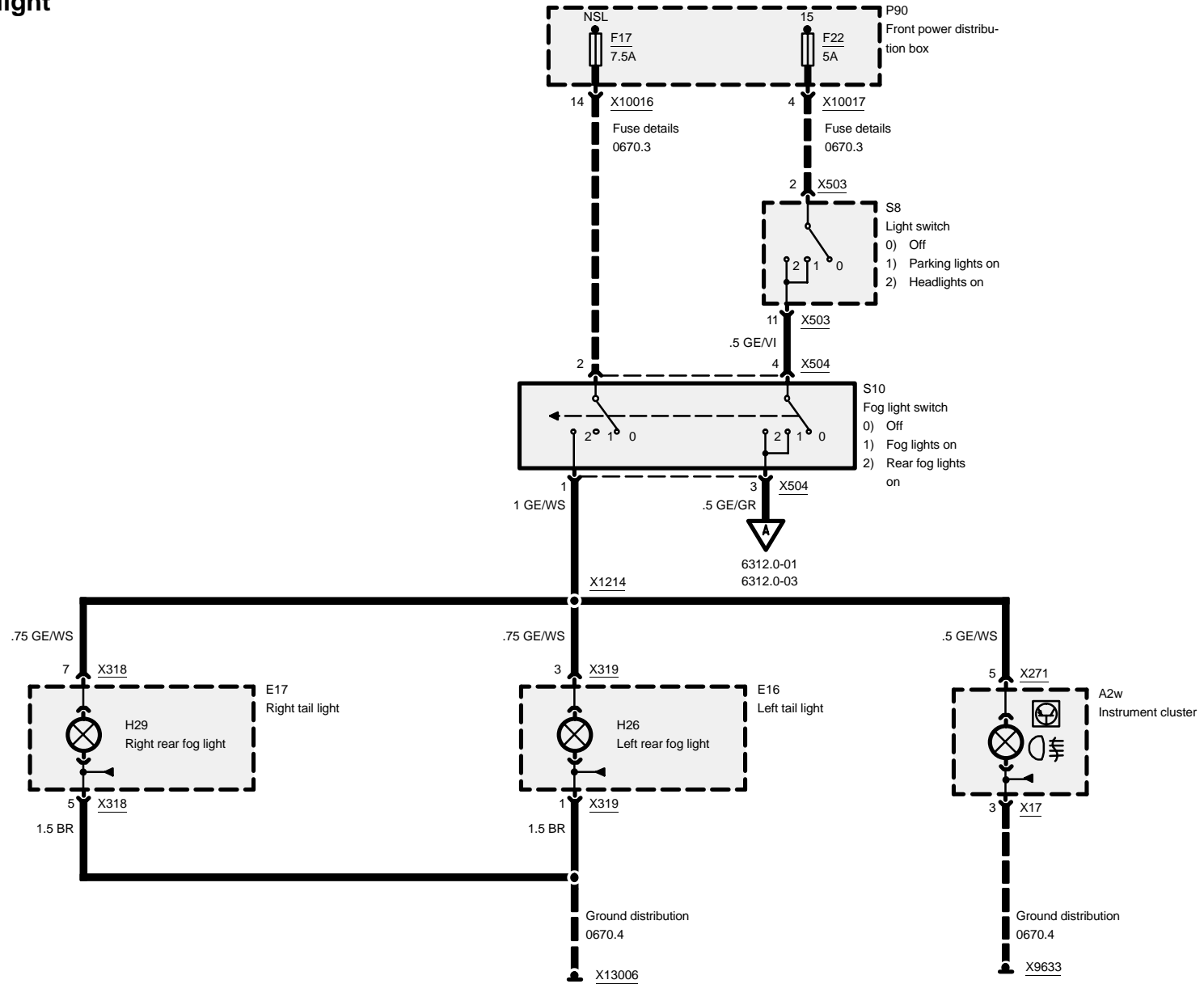
6300.0-04

1998



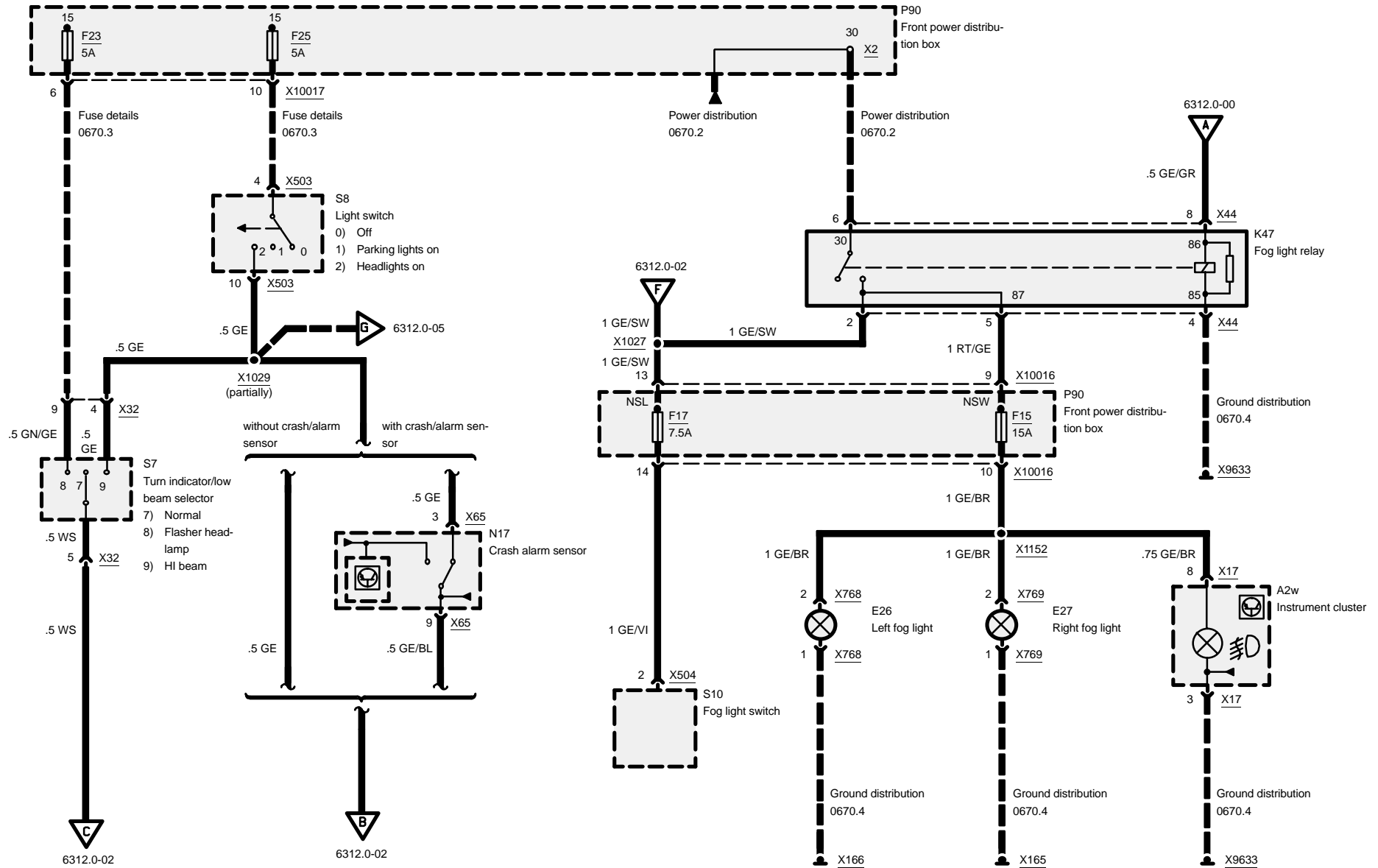
6312.0 Headlight/fog light

Rear fog light





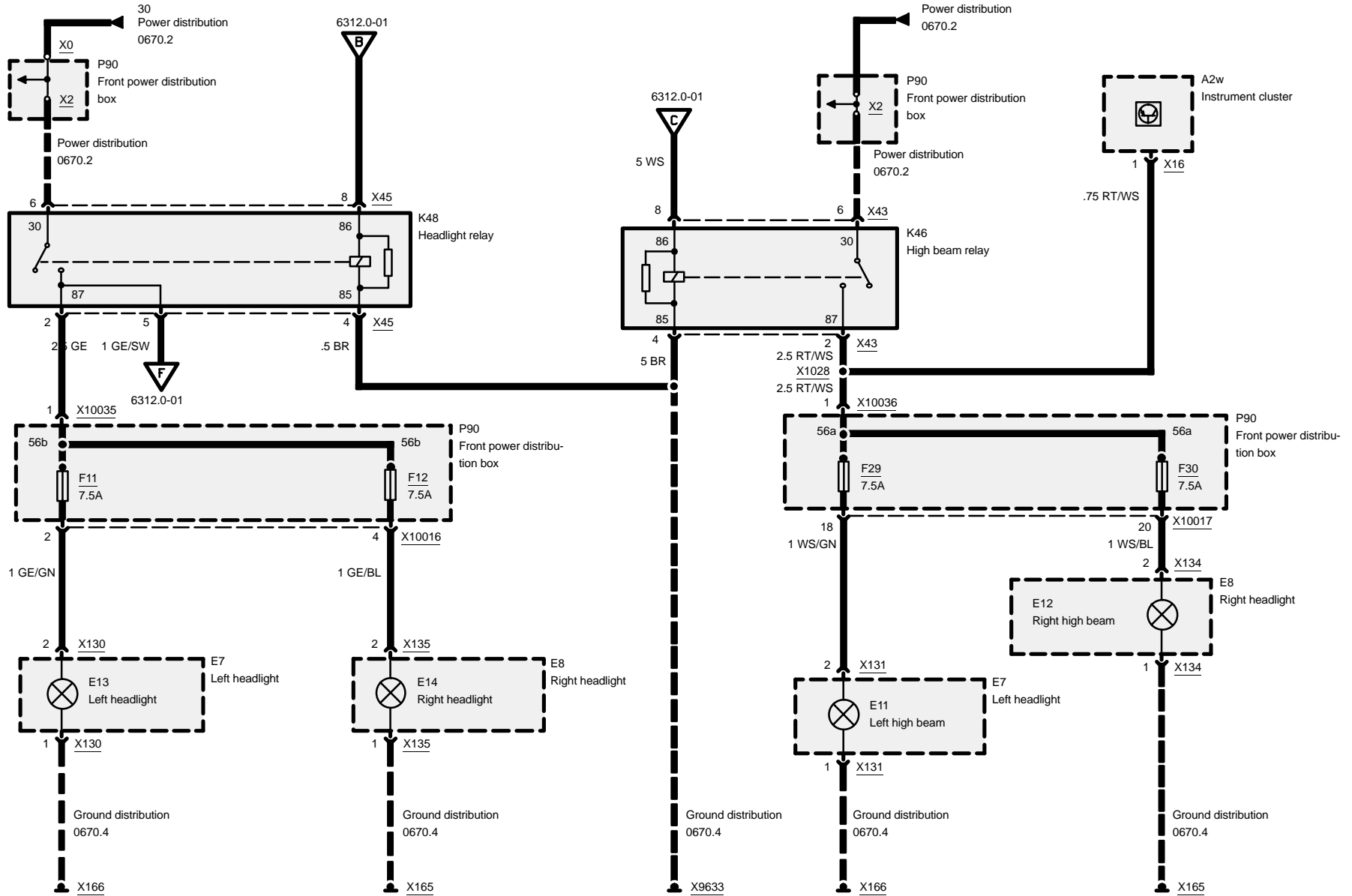
Z3





Z3

Headlight/fog light

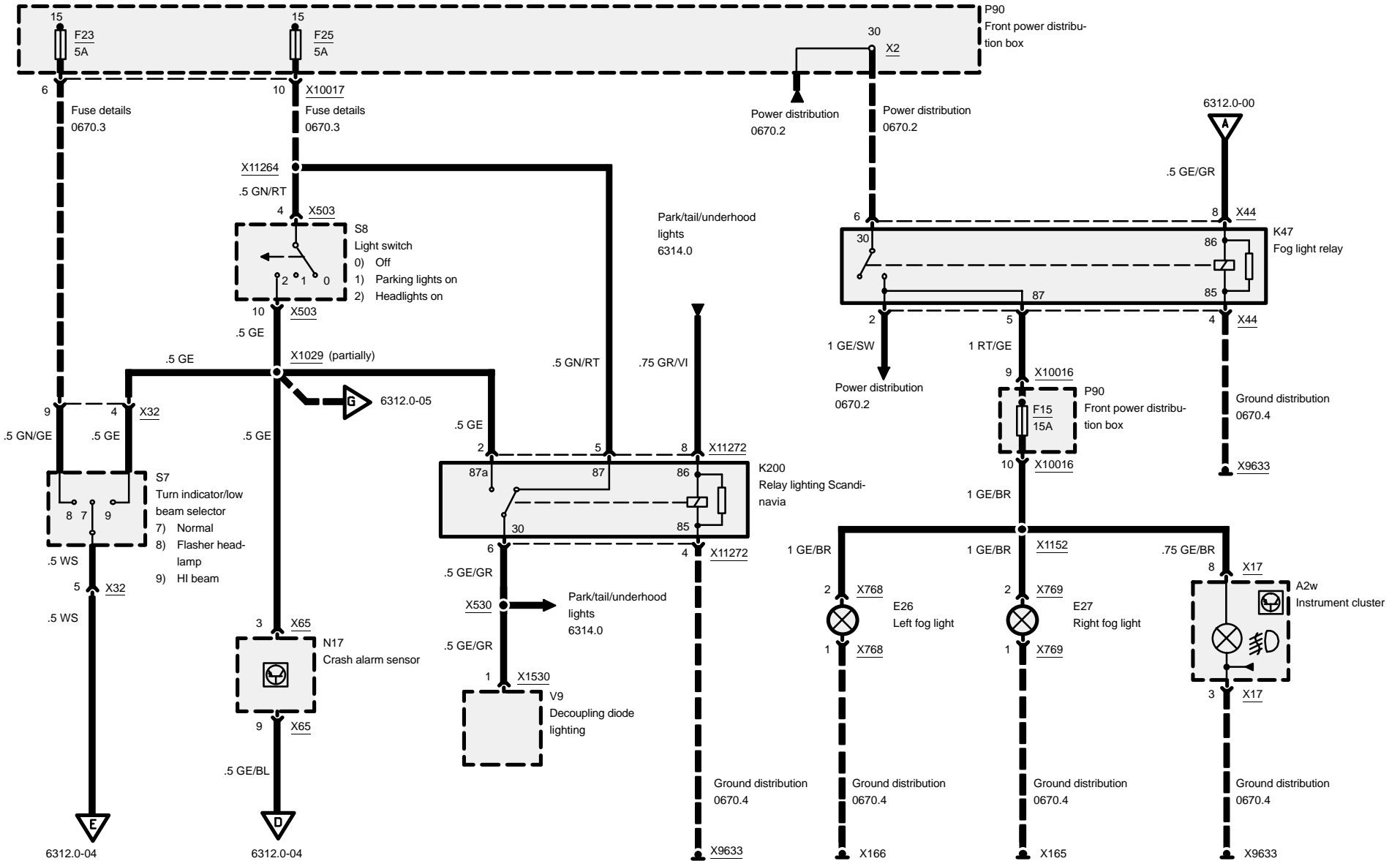




Headlight/fog light

N S

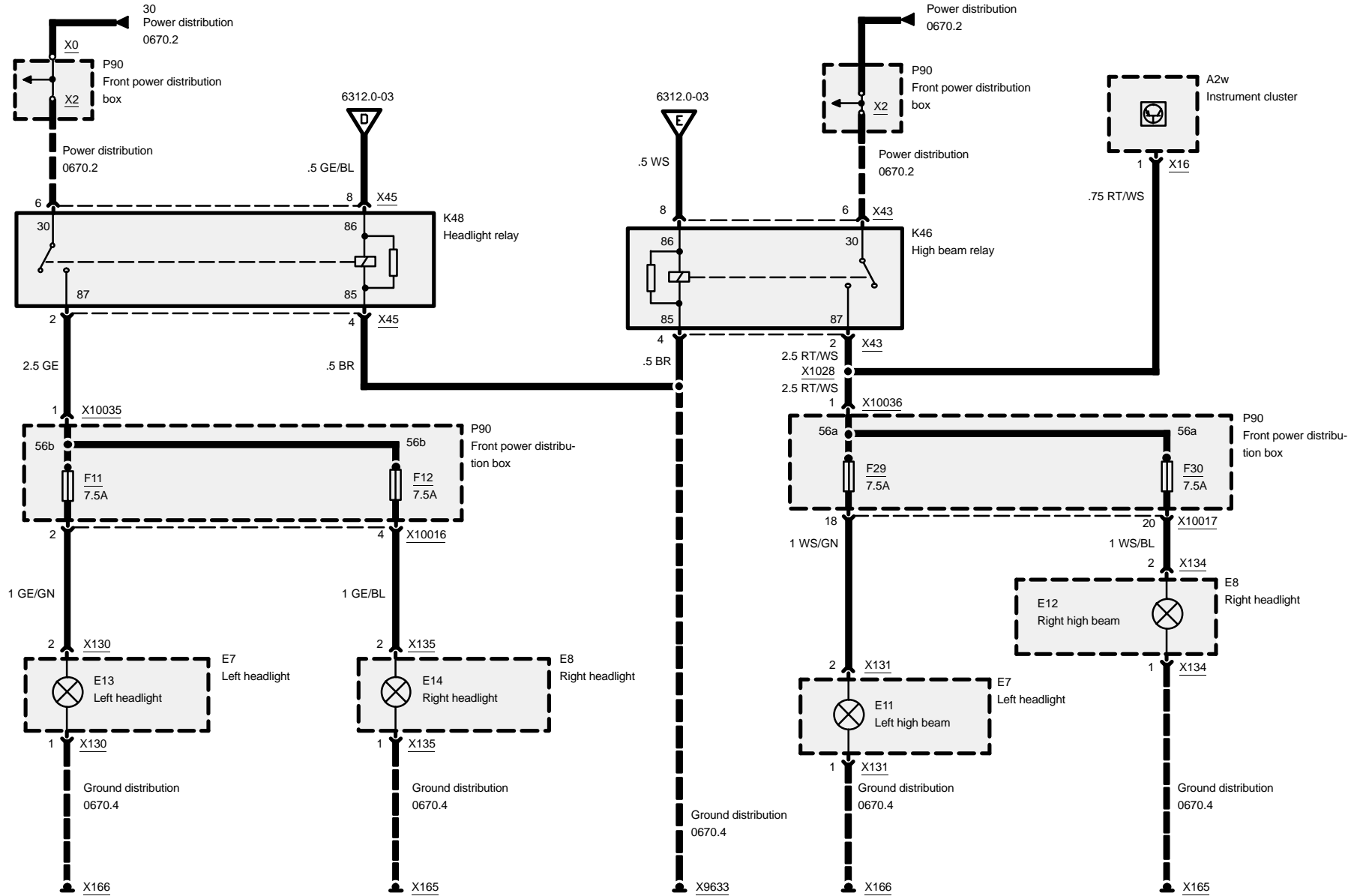
Z3





Z3

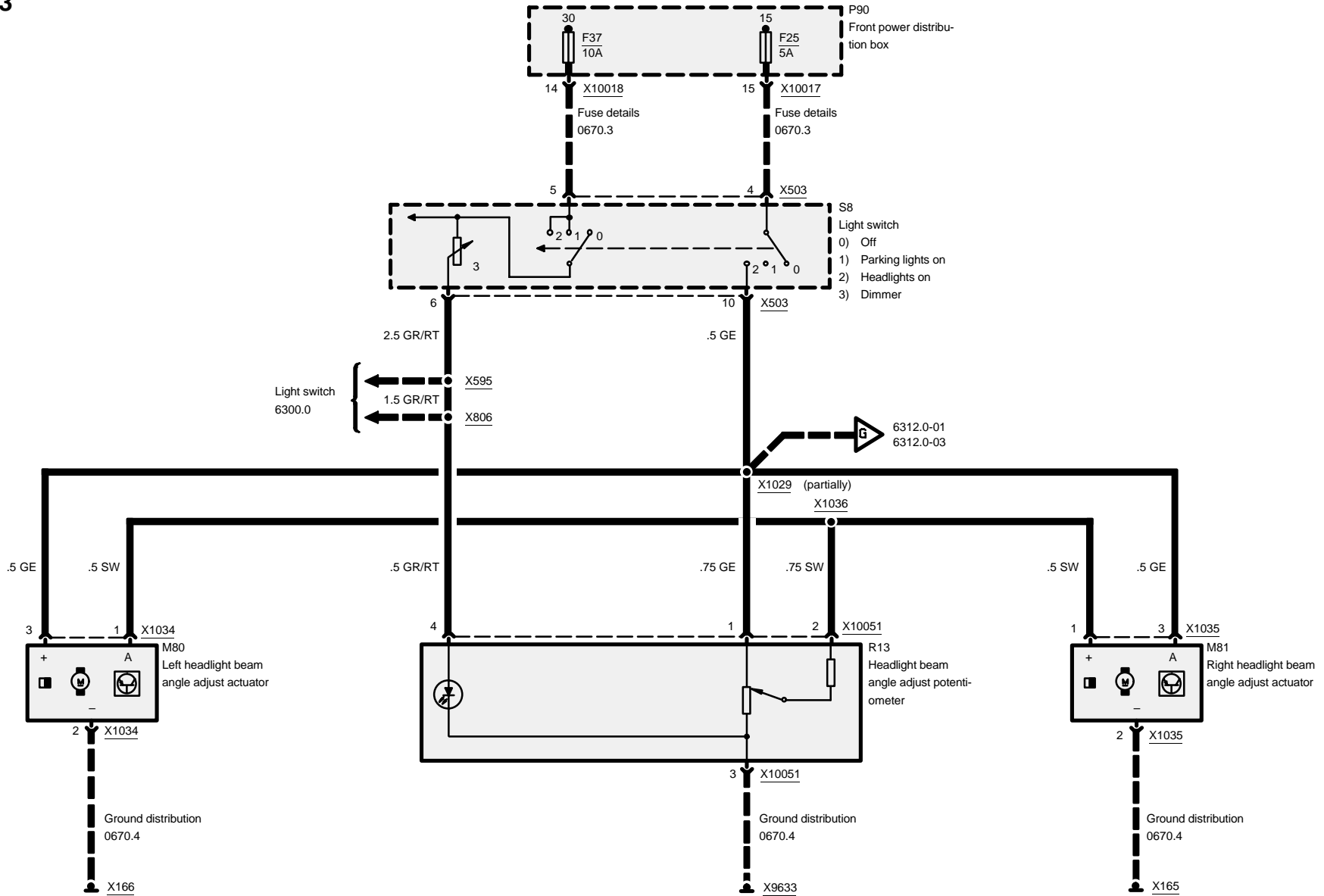
Headlight/fog light





Headlight/fog light

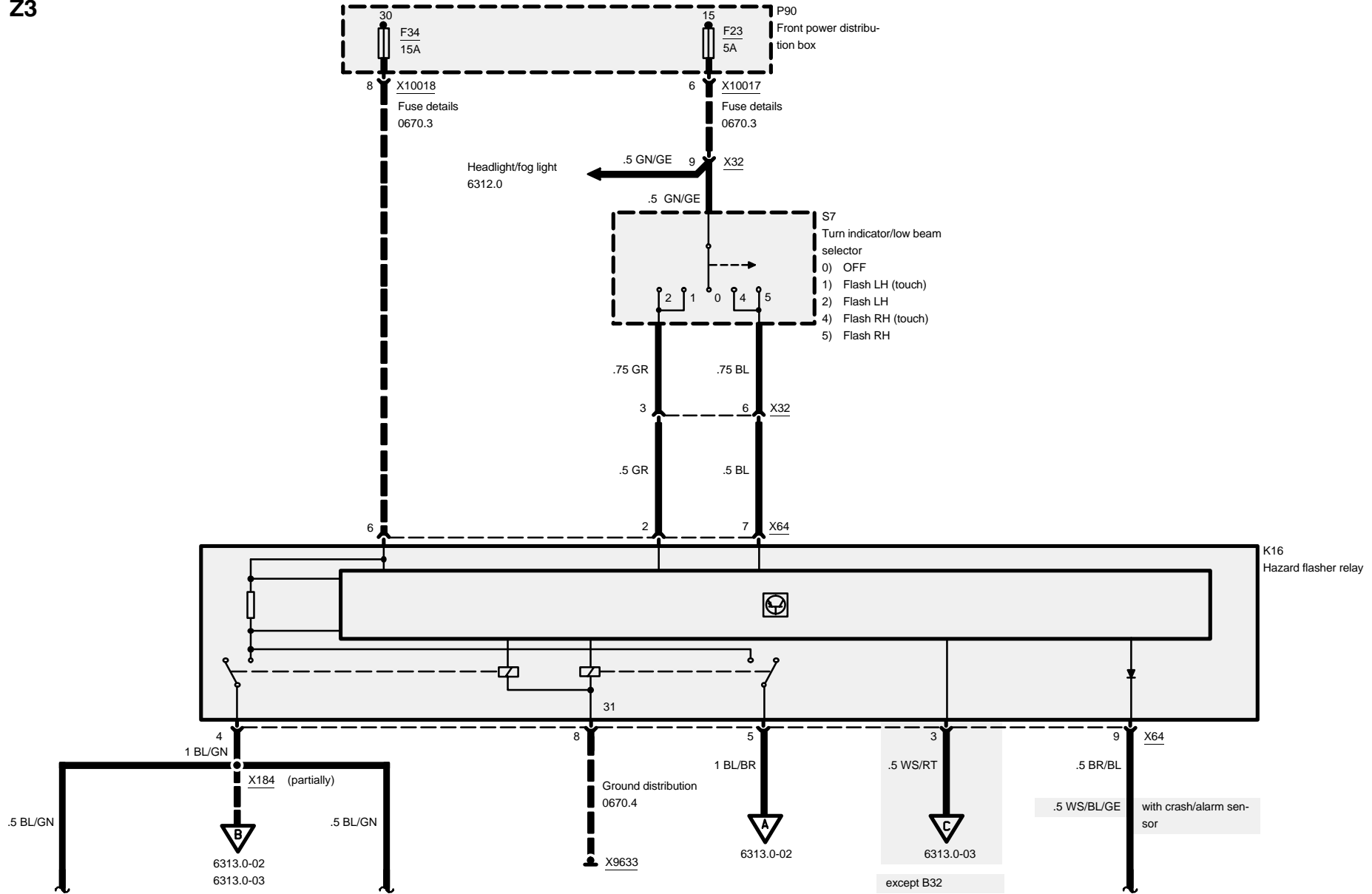
Headlight range adjustment

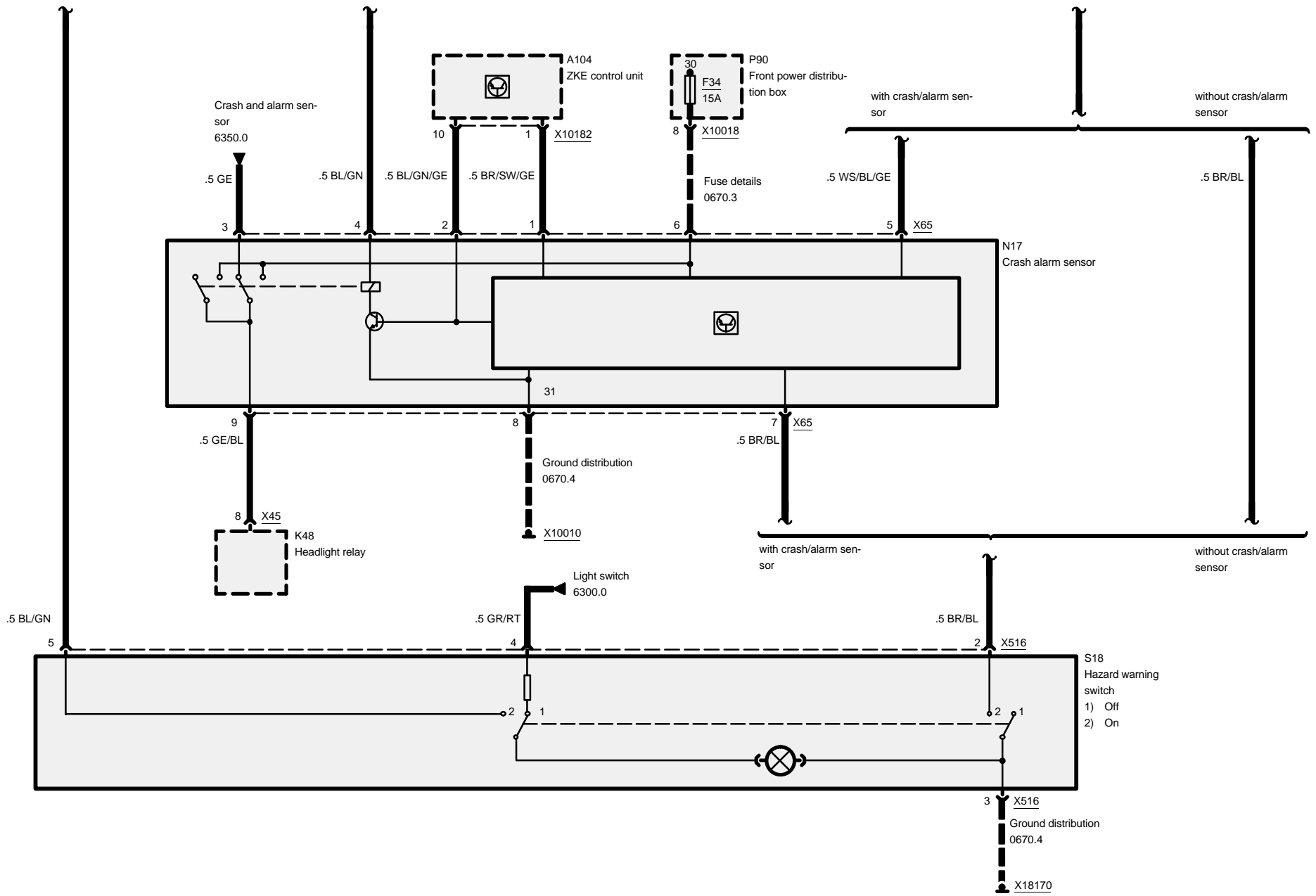




Z3

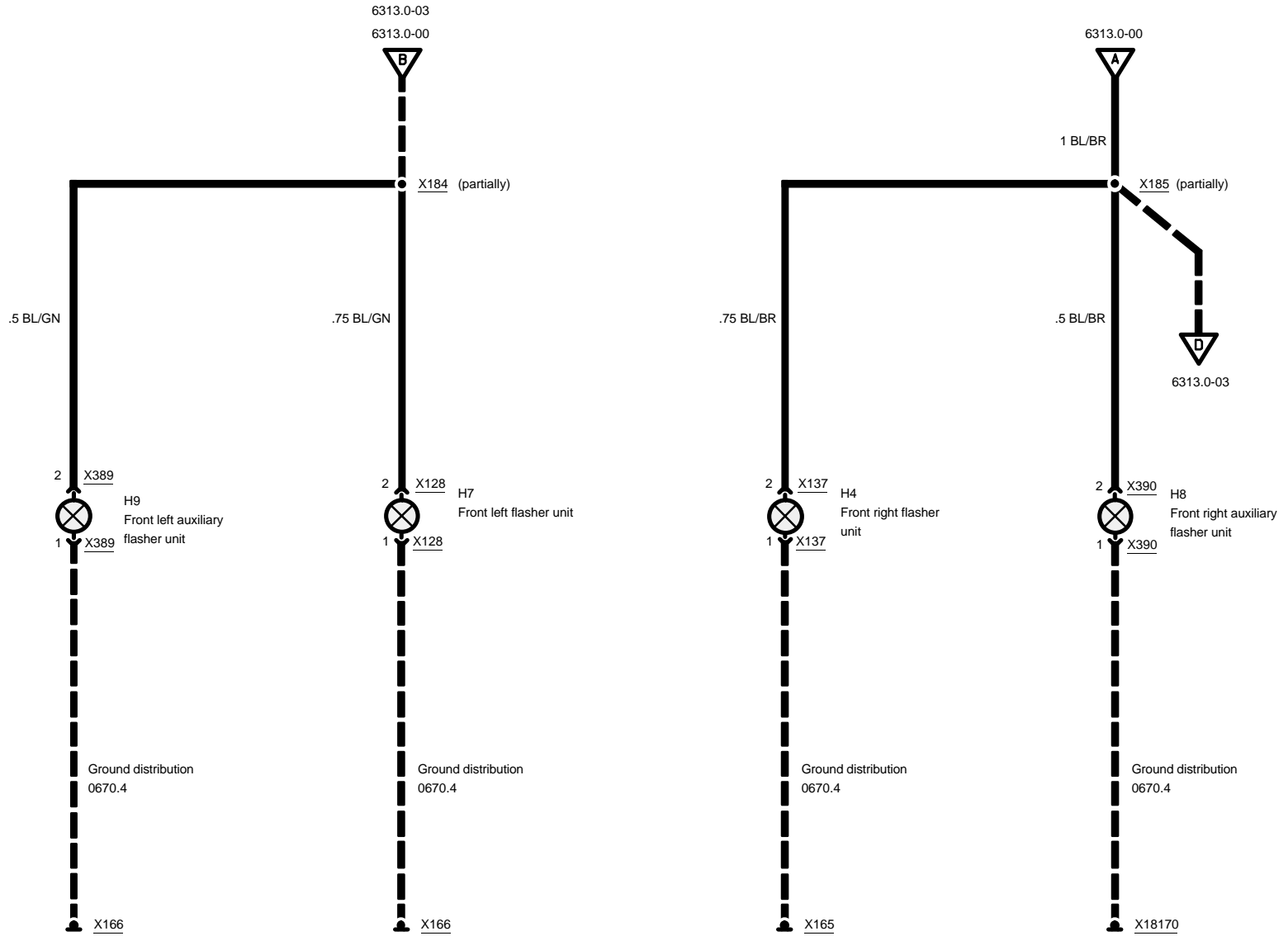
6313.0 Turn signal/hazard warning system





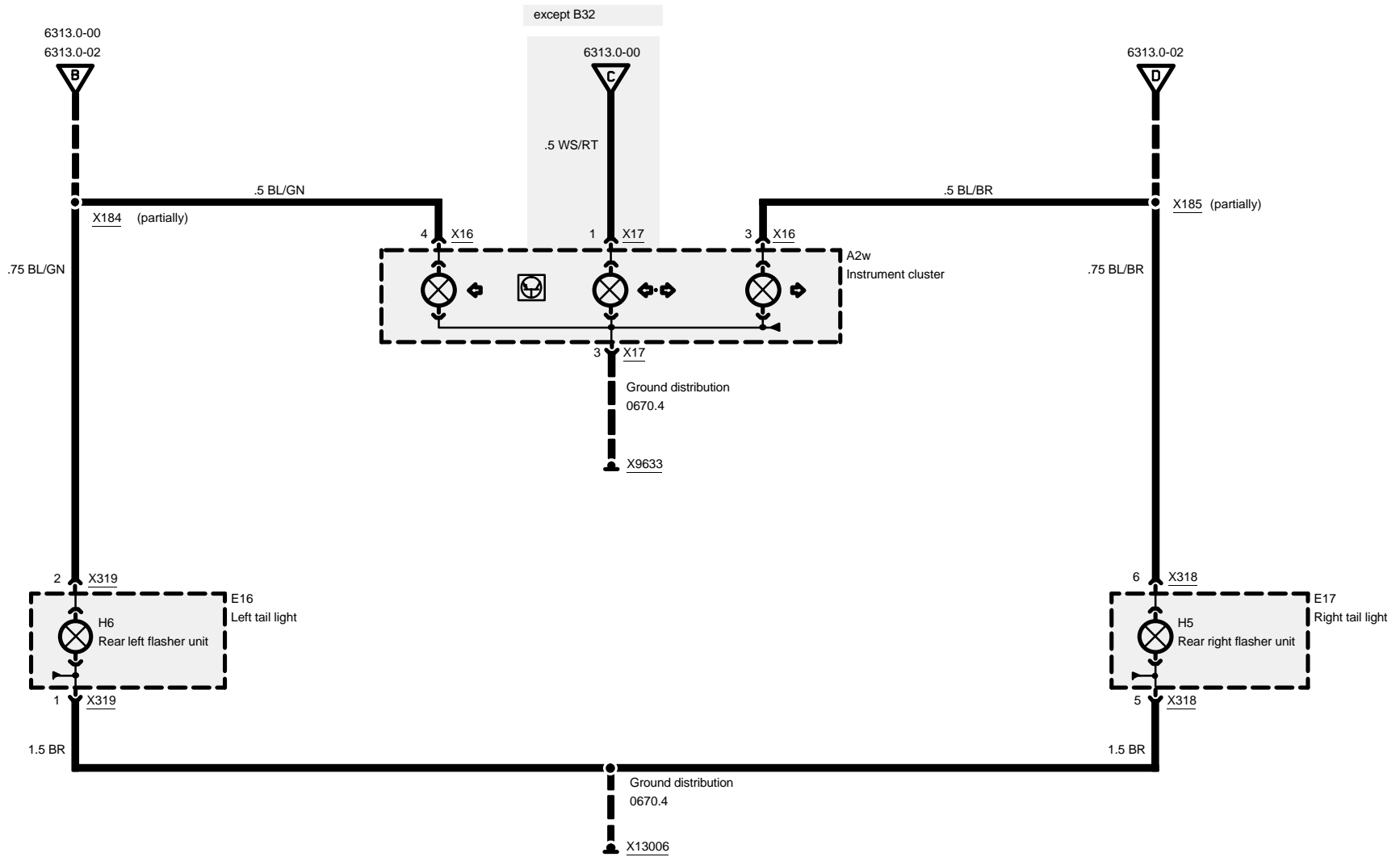


Turn signal/hazard warning system





Turn signal/hazard warning system

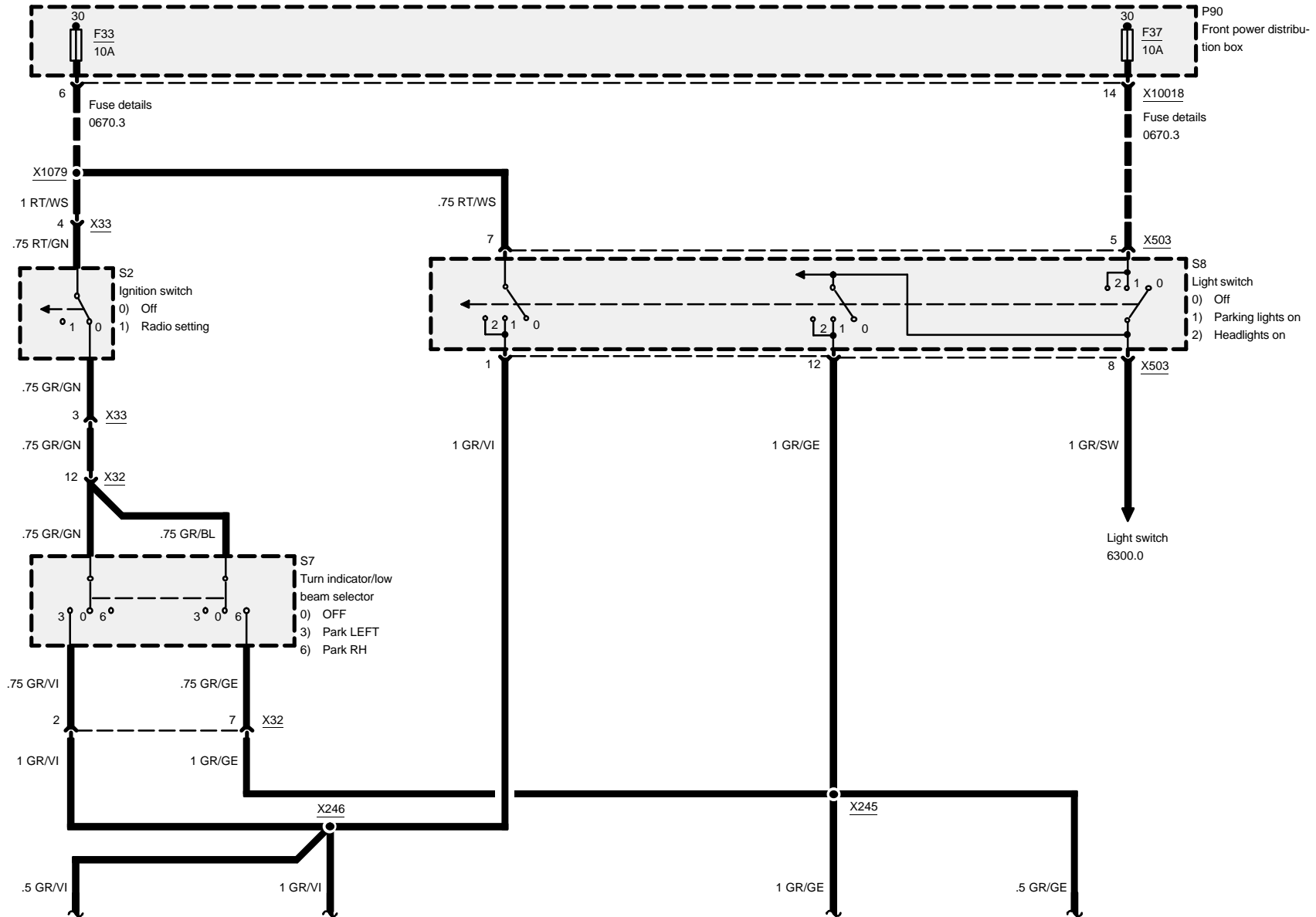




6314.0 Park/tail/underhood lights



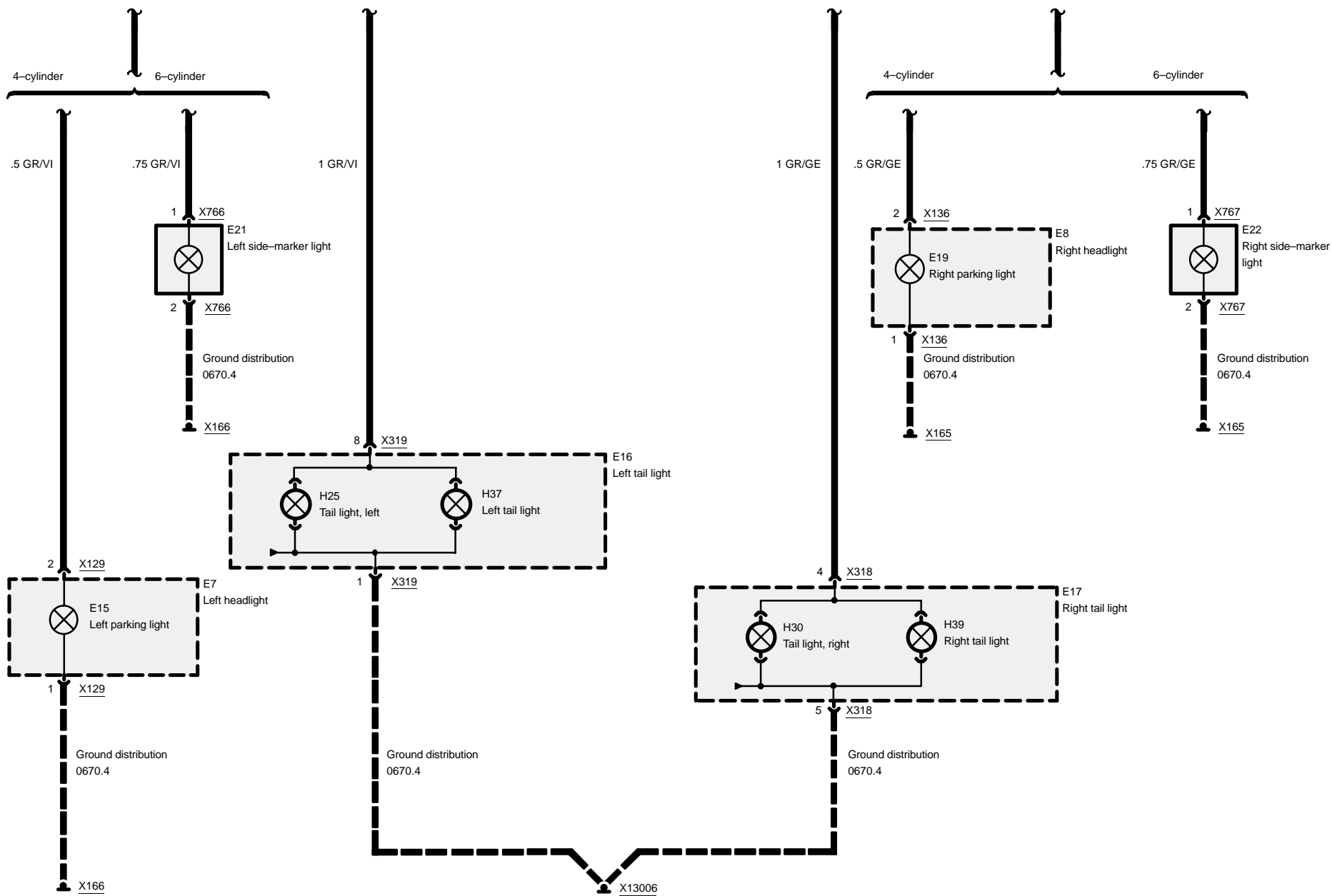
Z3



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6314.0-00

1998

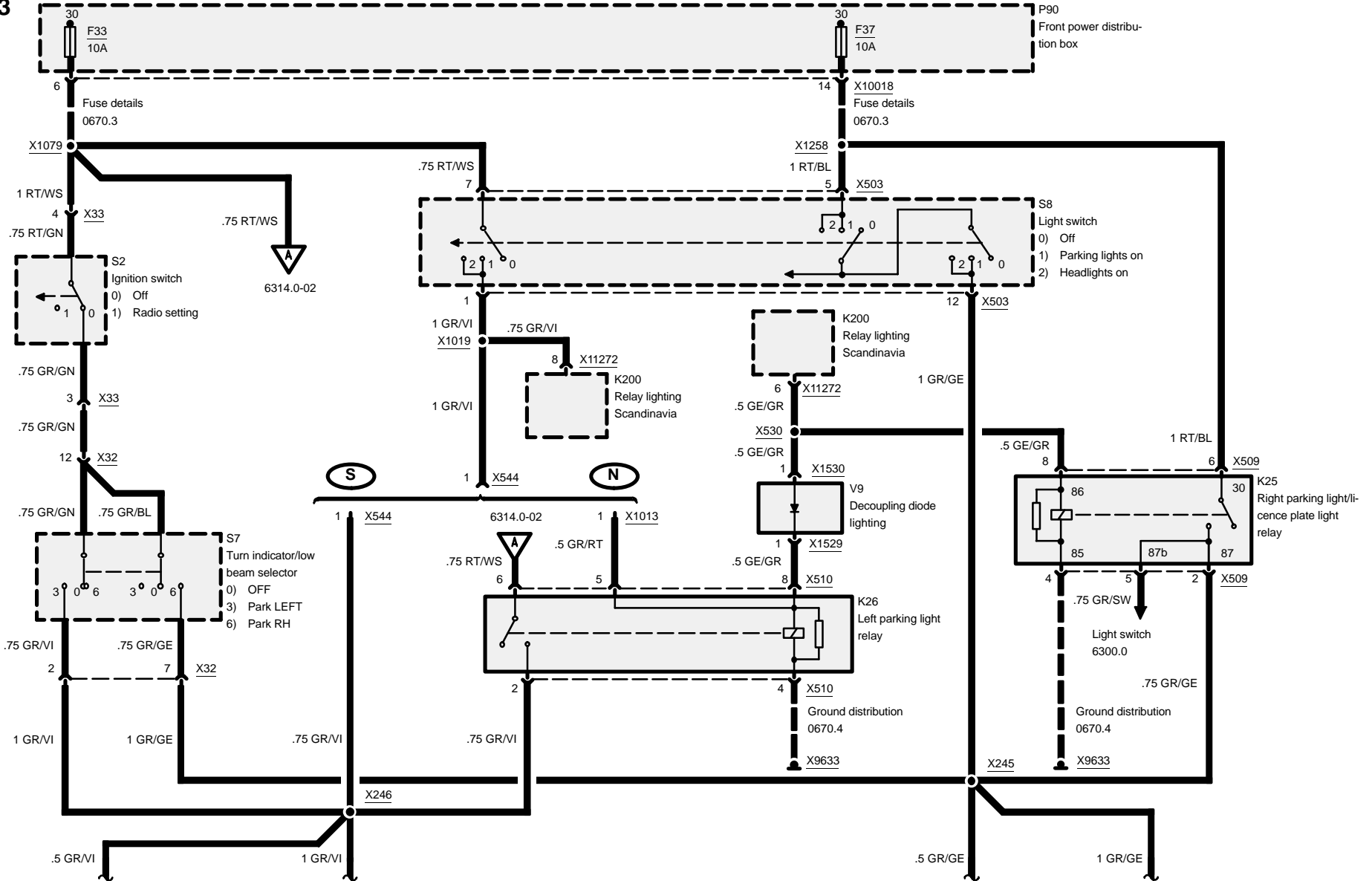




Park/tail/underhood lights



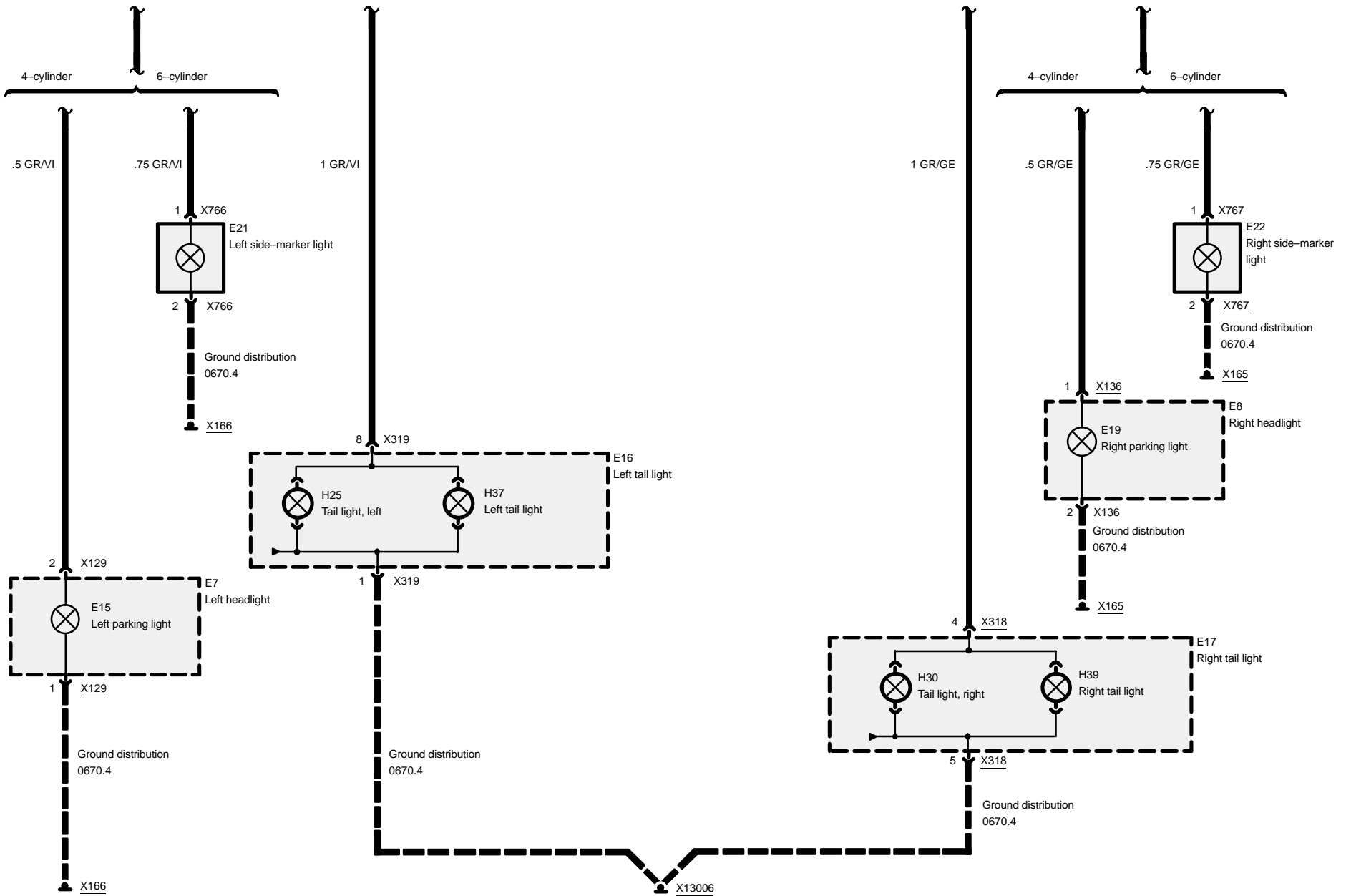
Z3



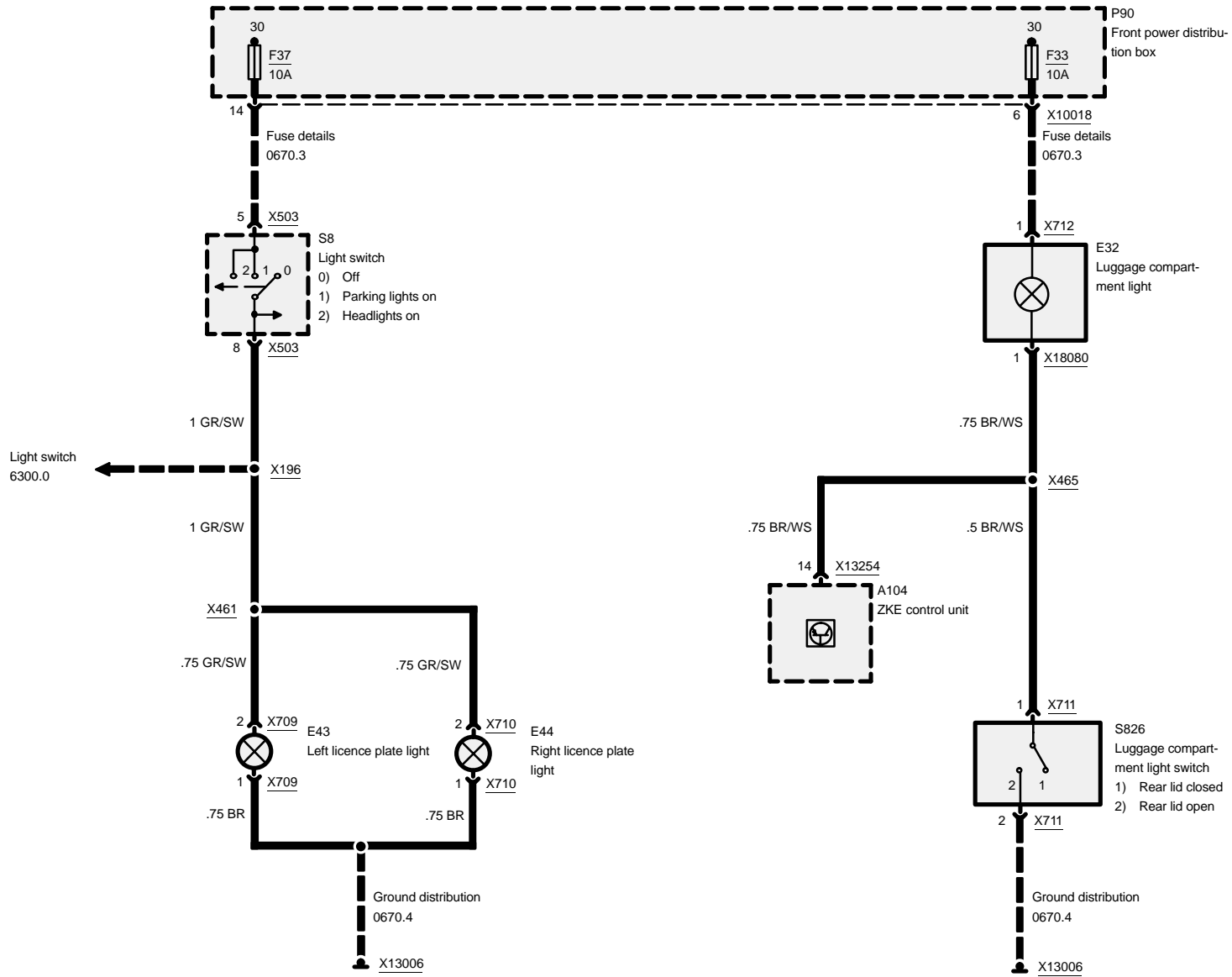
05/99

6314.0-02

1998



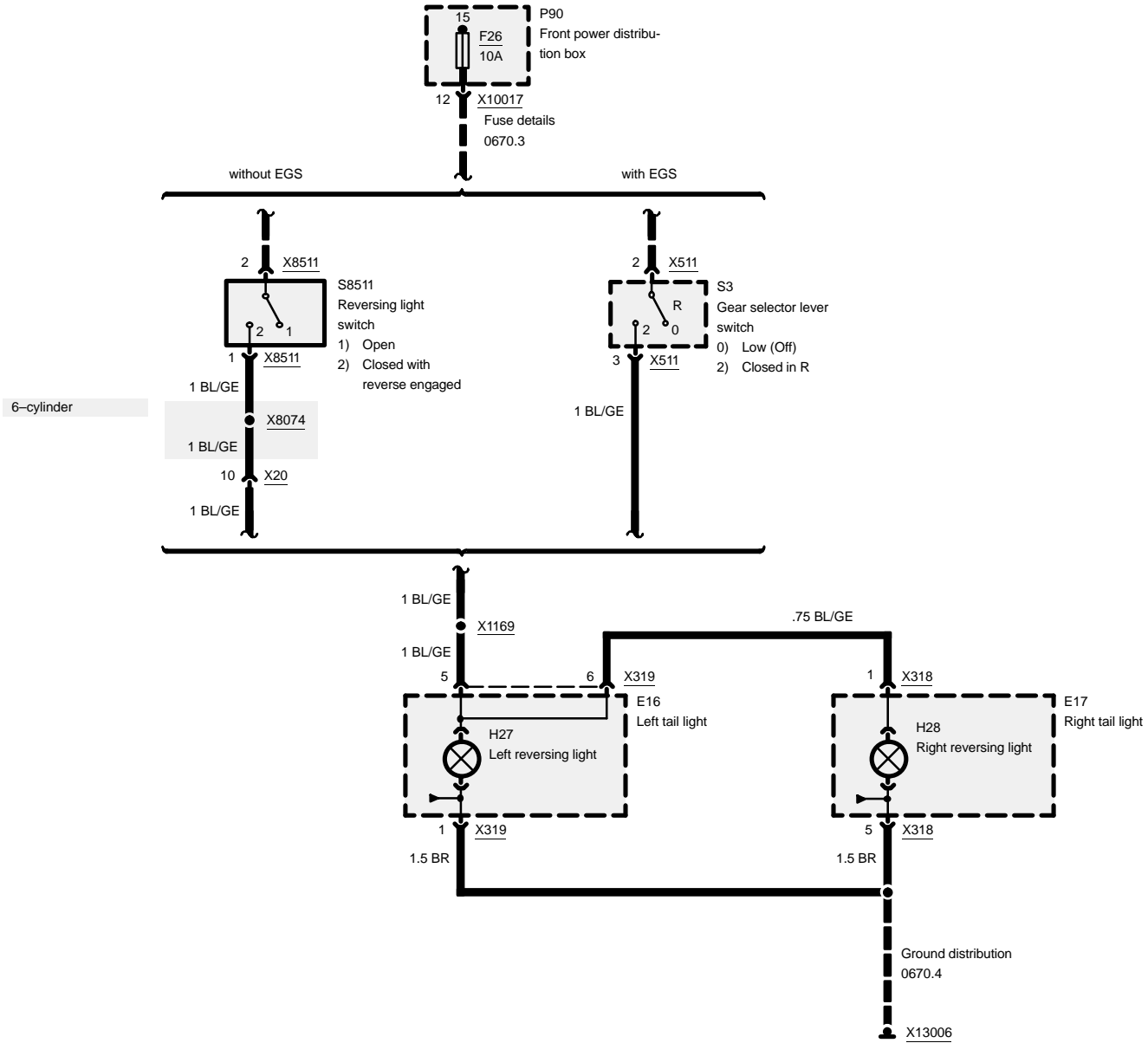
6320.0 Licence plate/luggage compartment lights





6322.0 Reversing lights

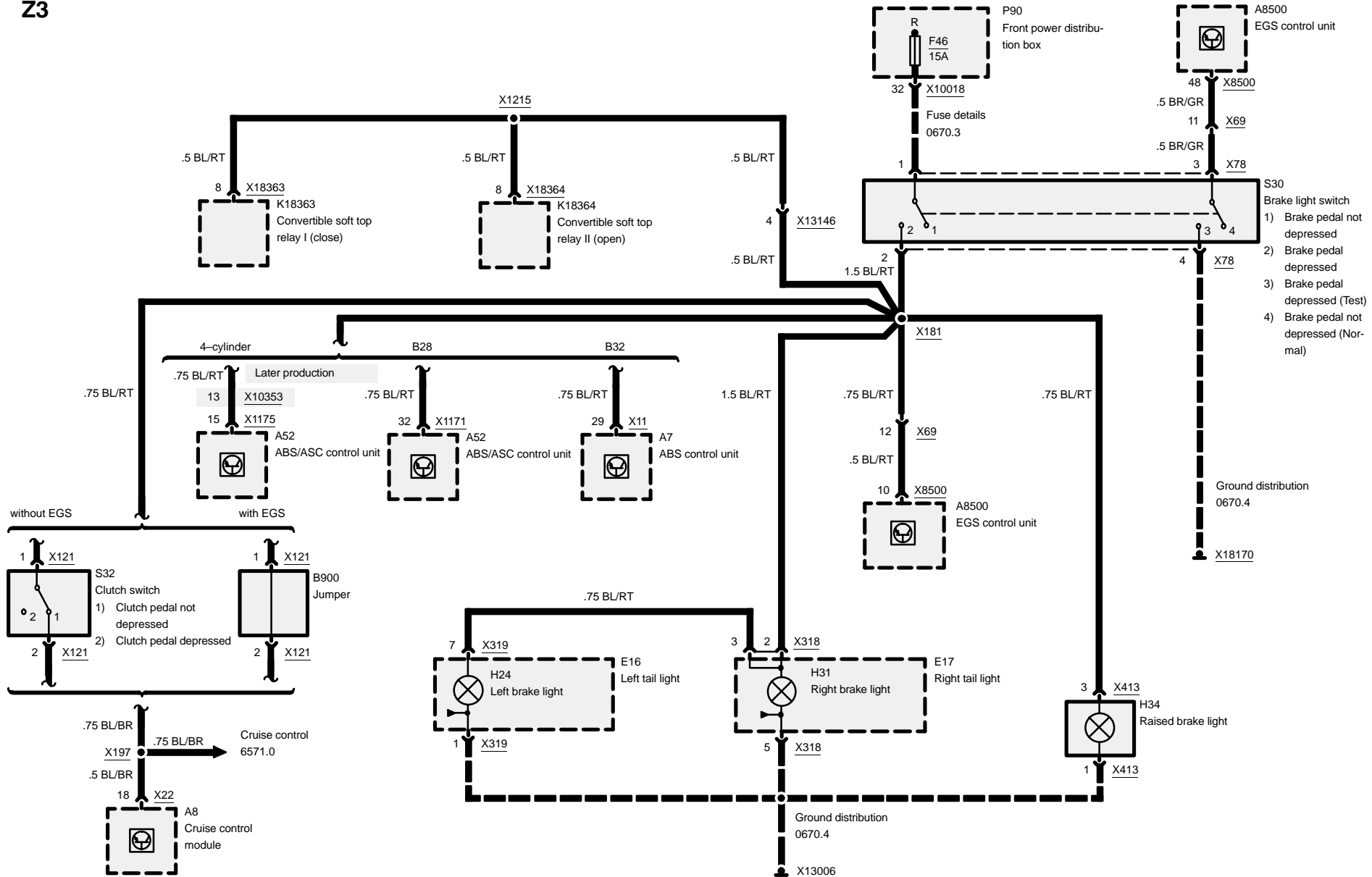
Z3





6325.0 Brake lights

Z3

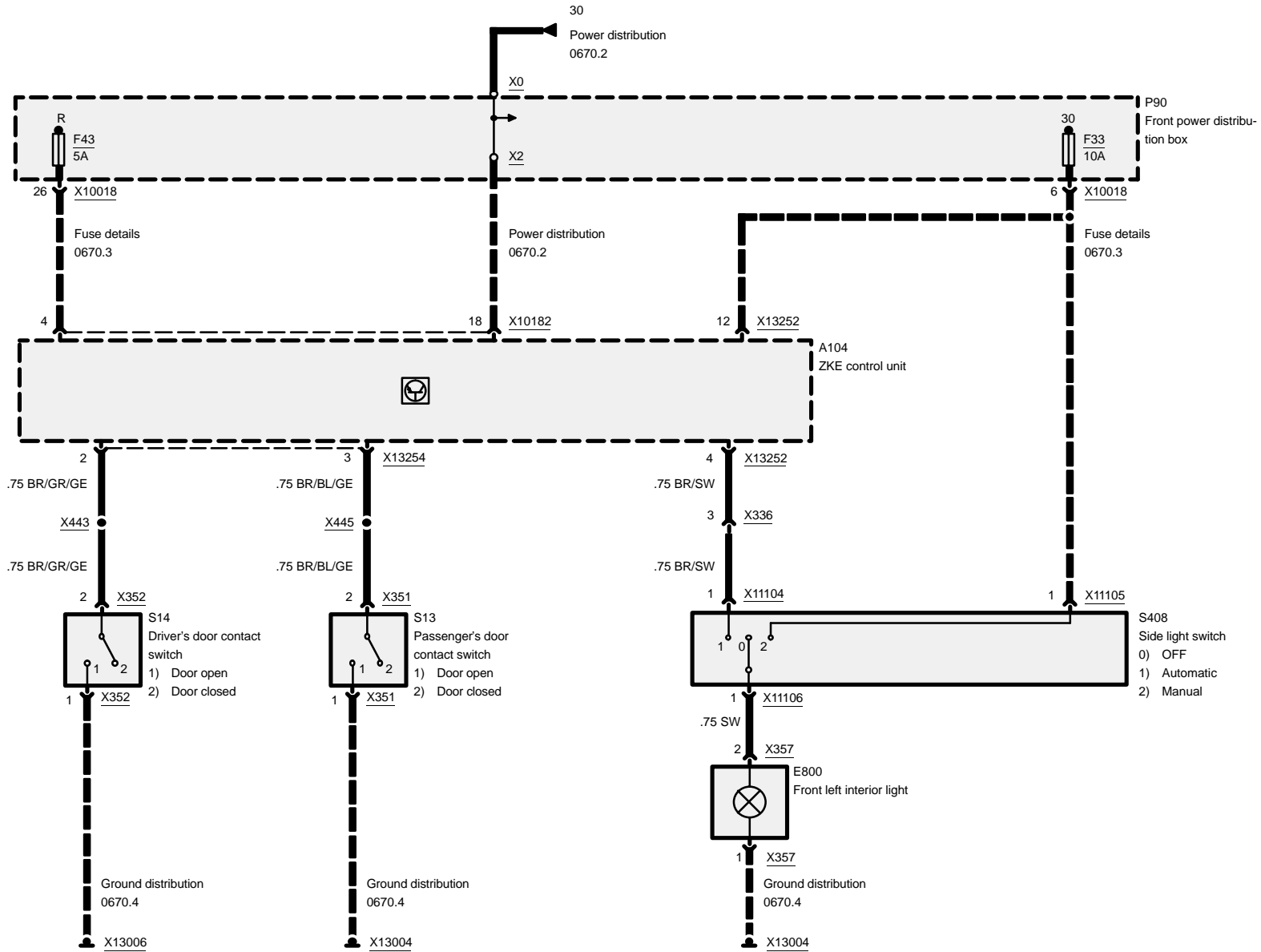


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6325.0-00

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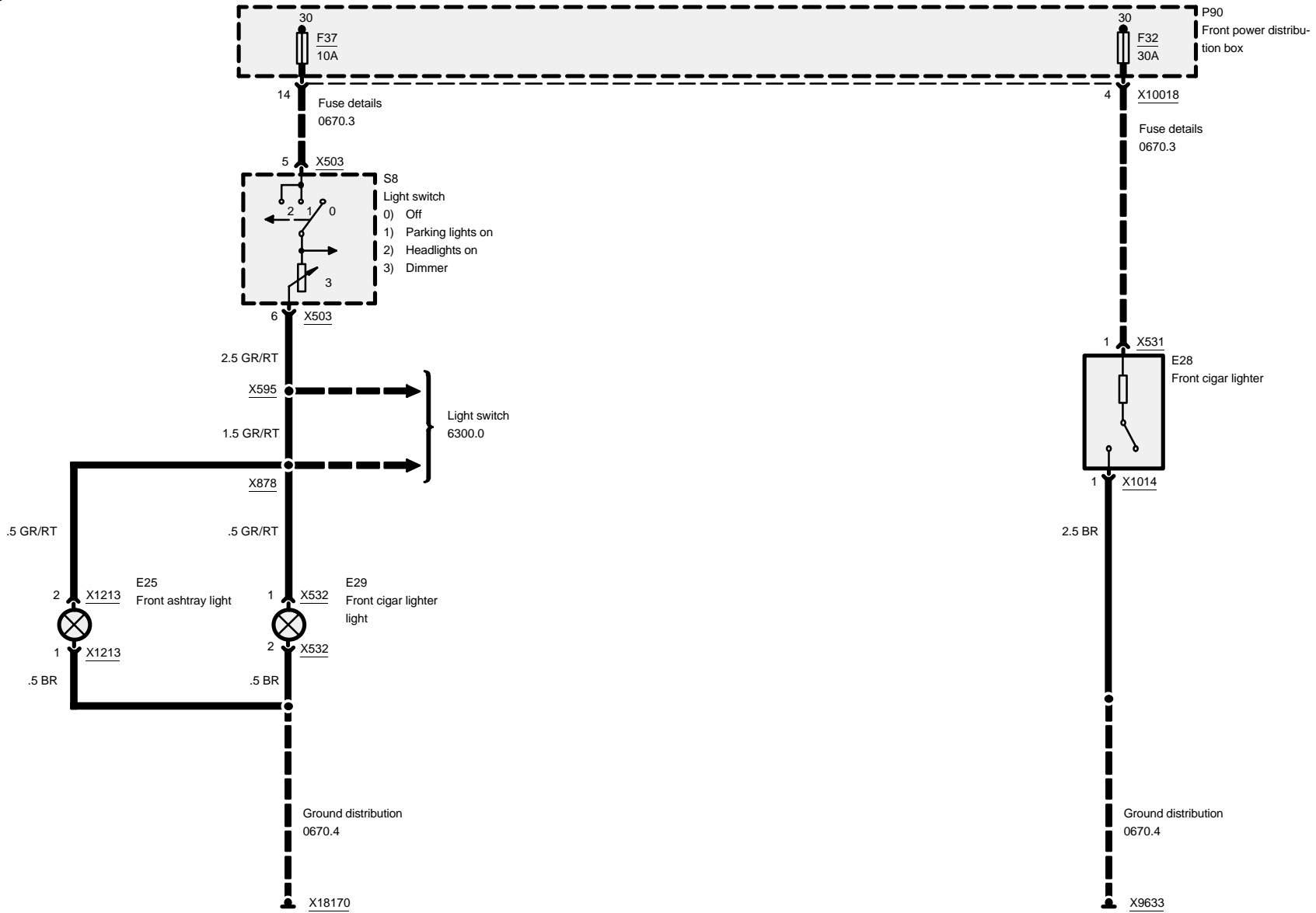
6330.3 Interior lights





6332.0 Interior

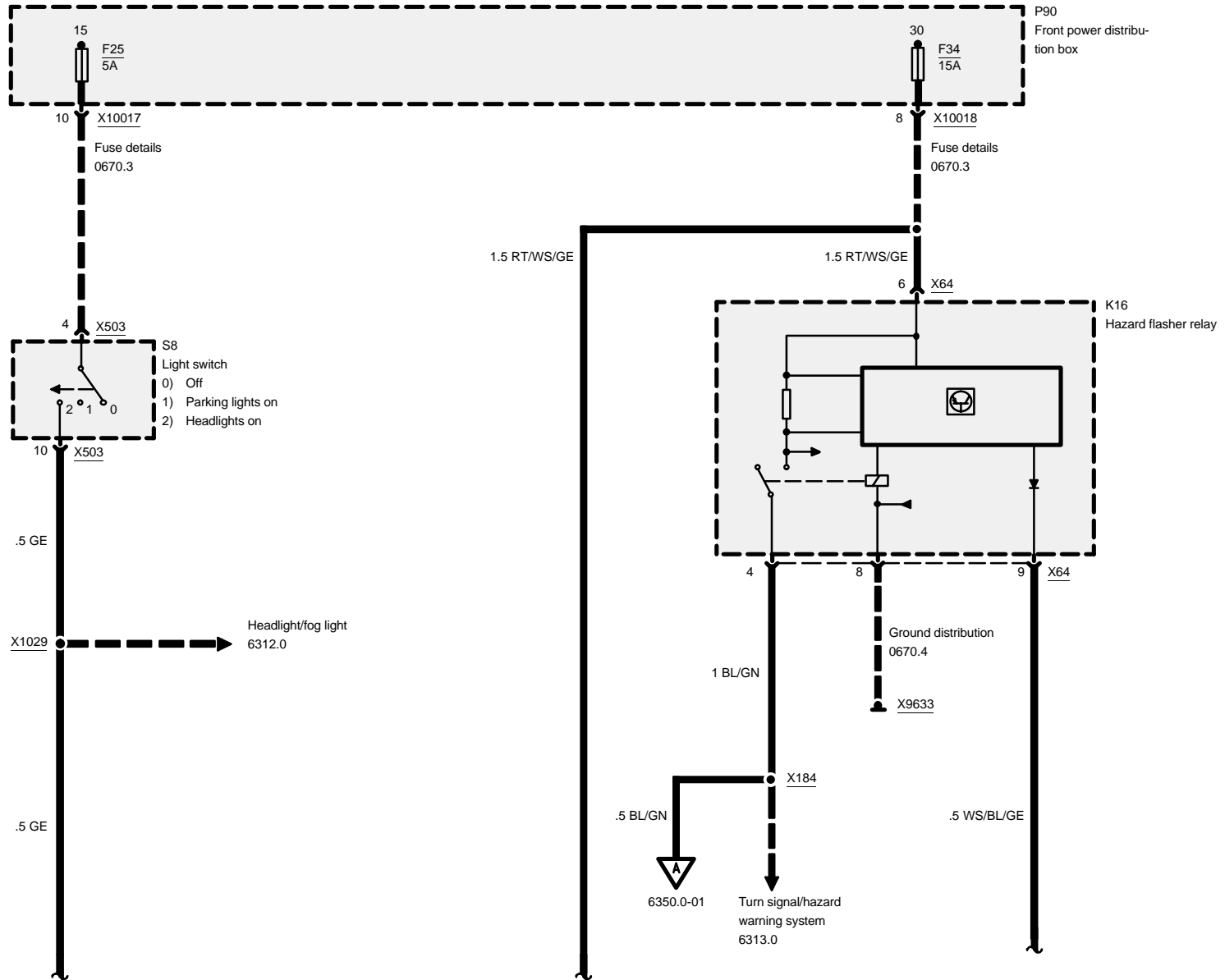
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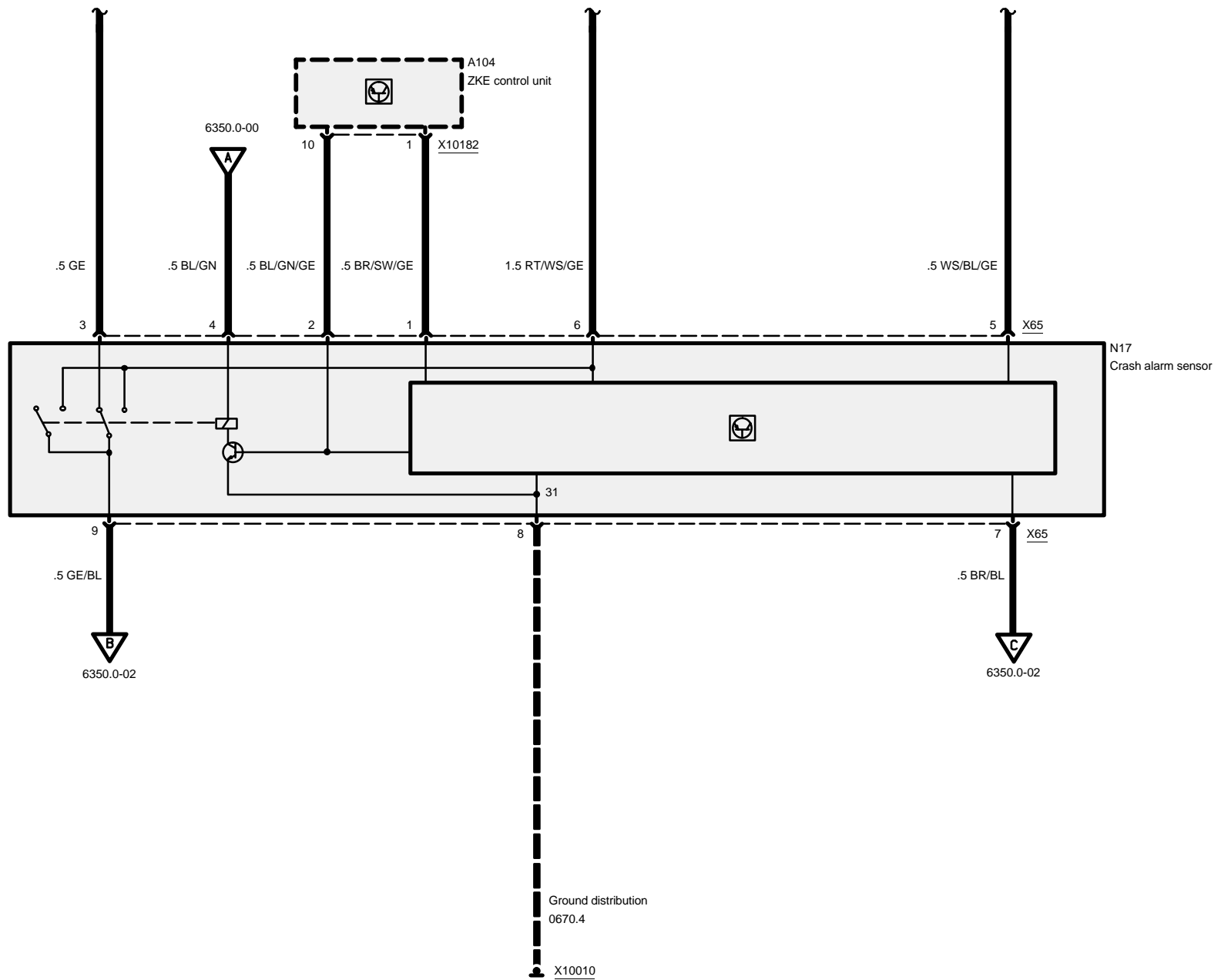




Z3

6350.0 Crash and alarm sensor

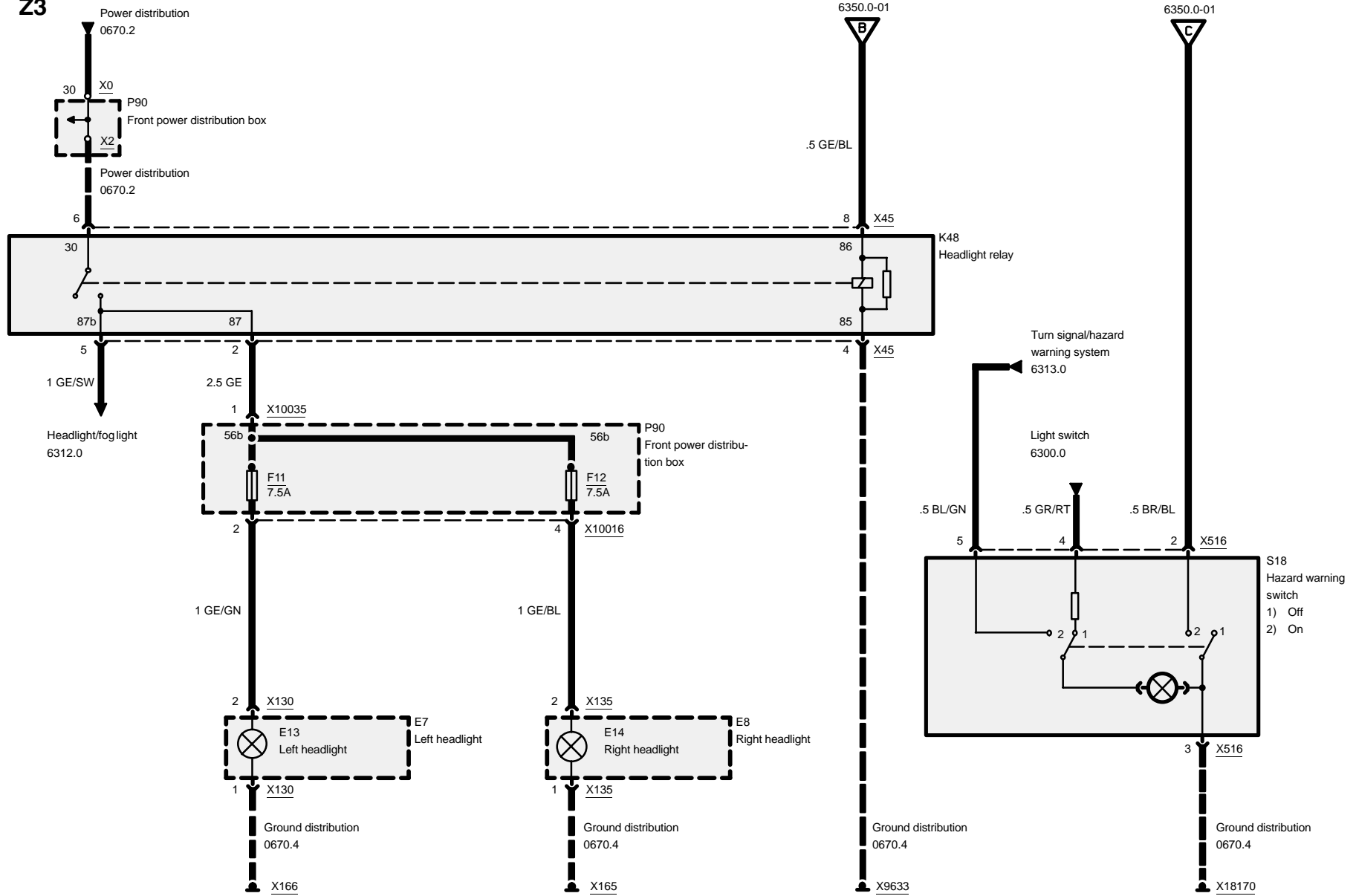






Crash and alarm sensor

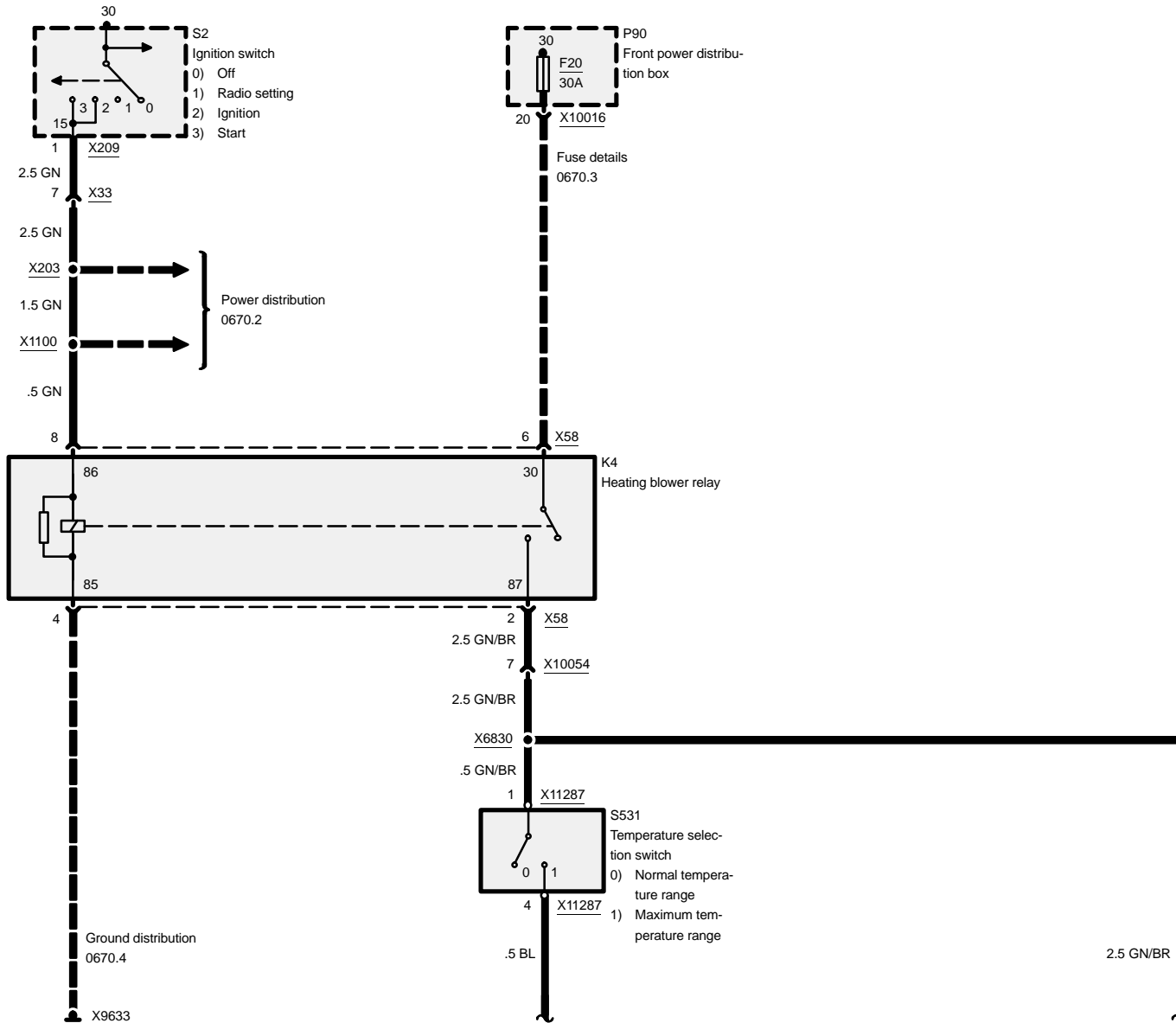
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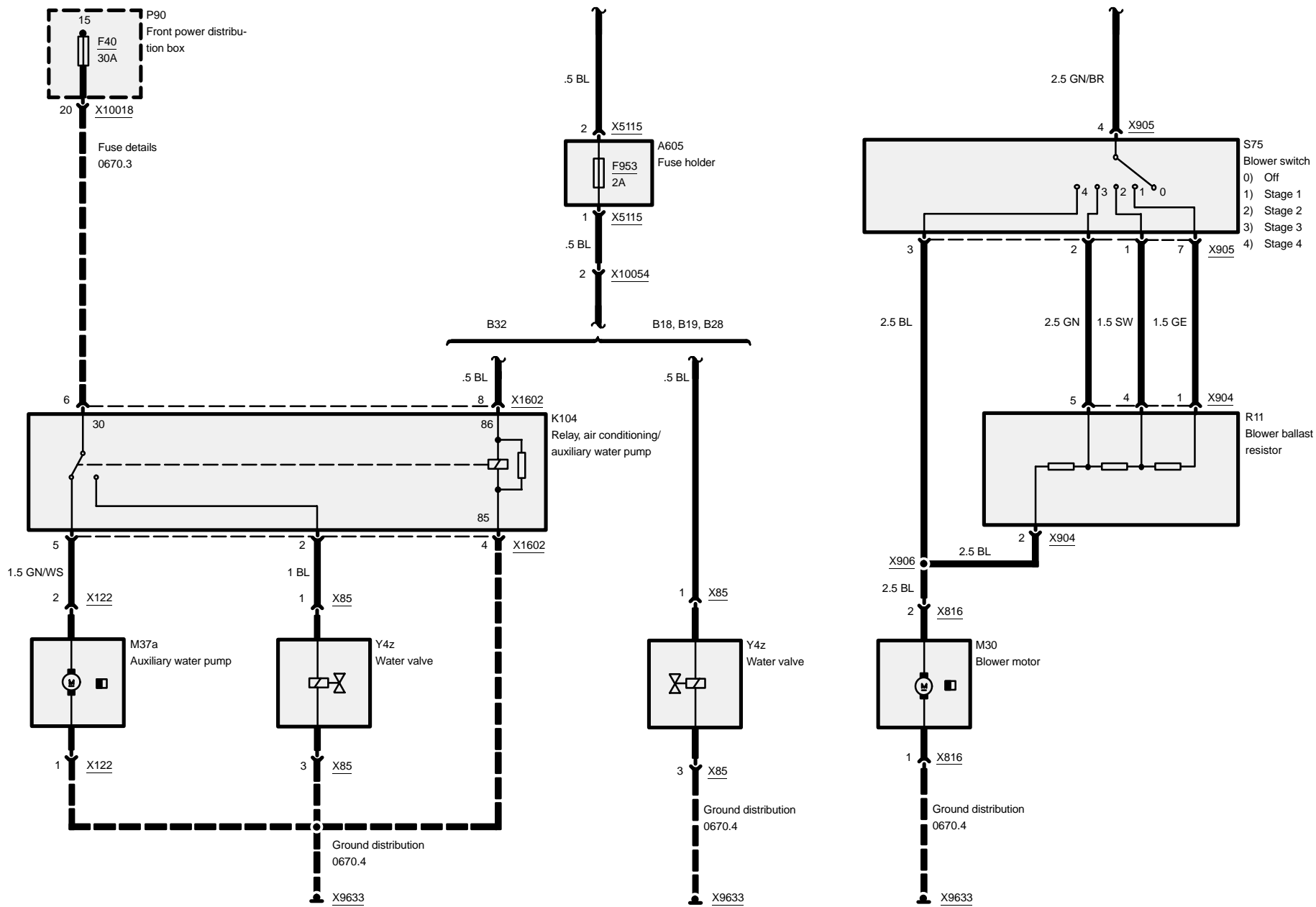




Z3

6410.7 Heating control (HS)

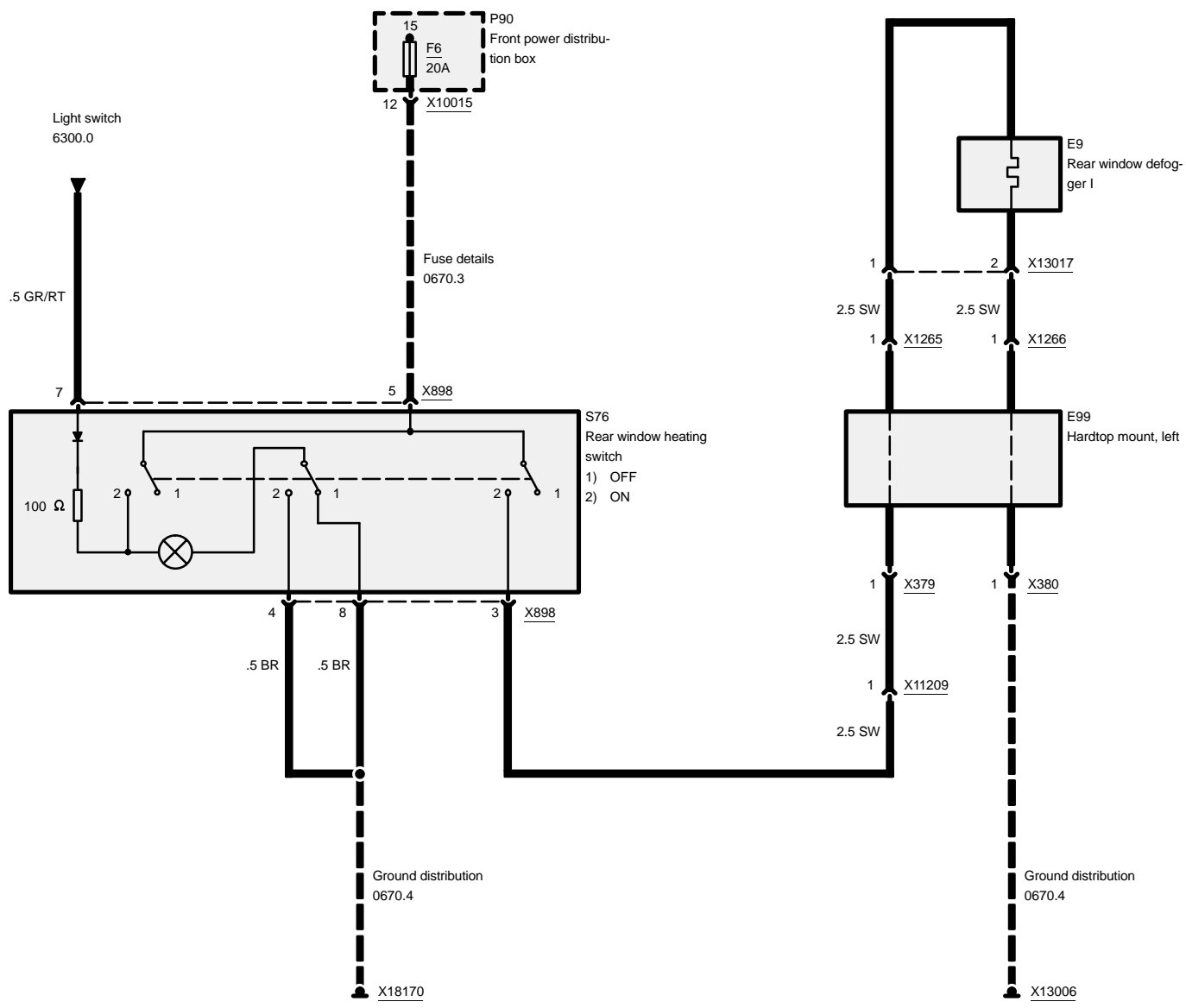






6424.0 Rear window defogger

Earlier production

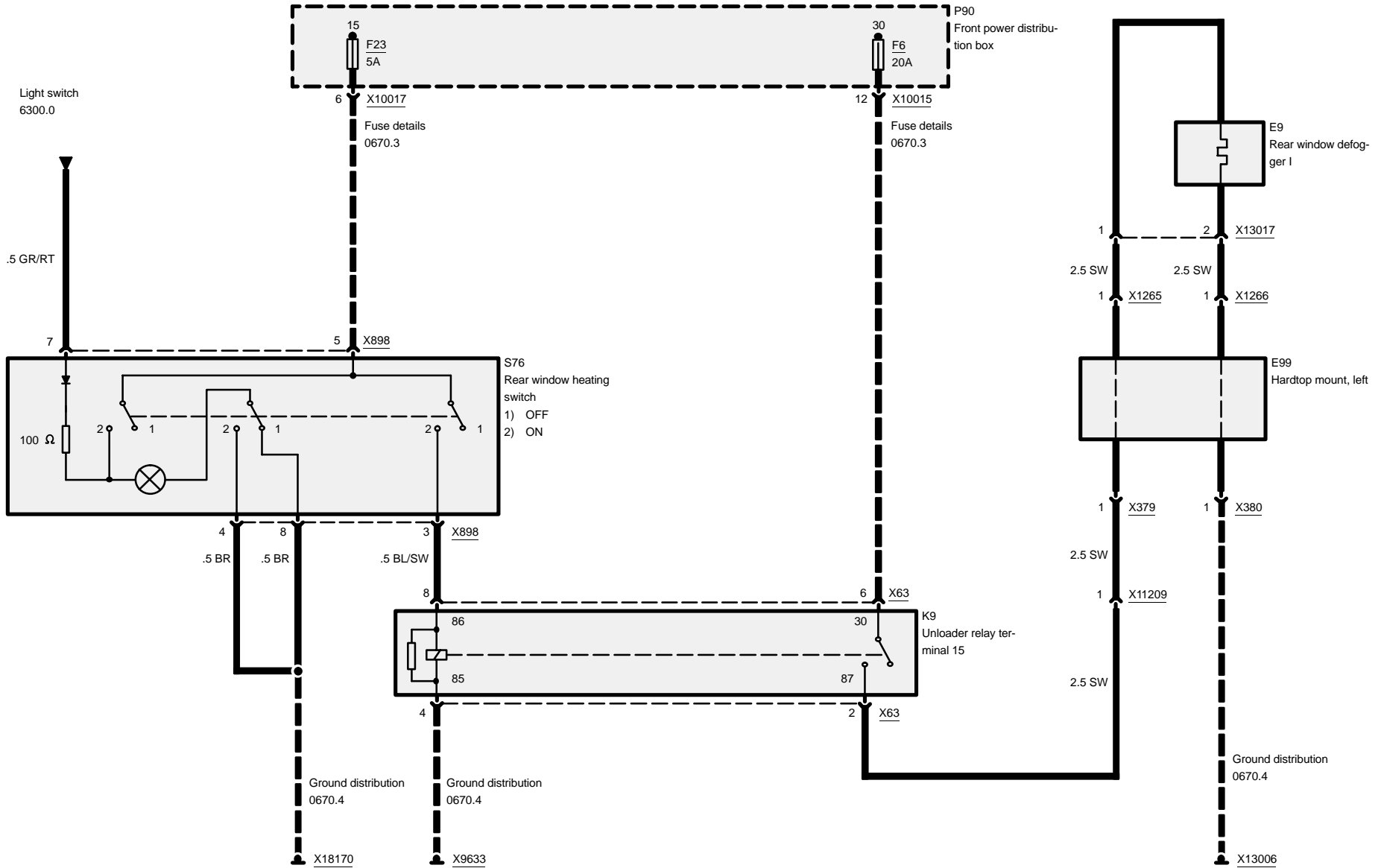


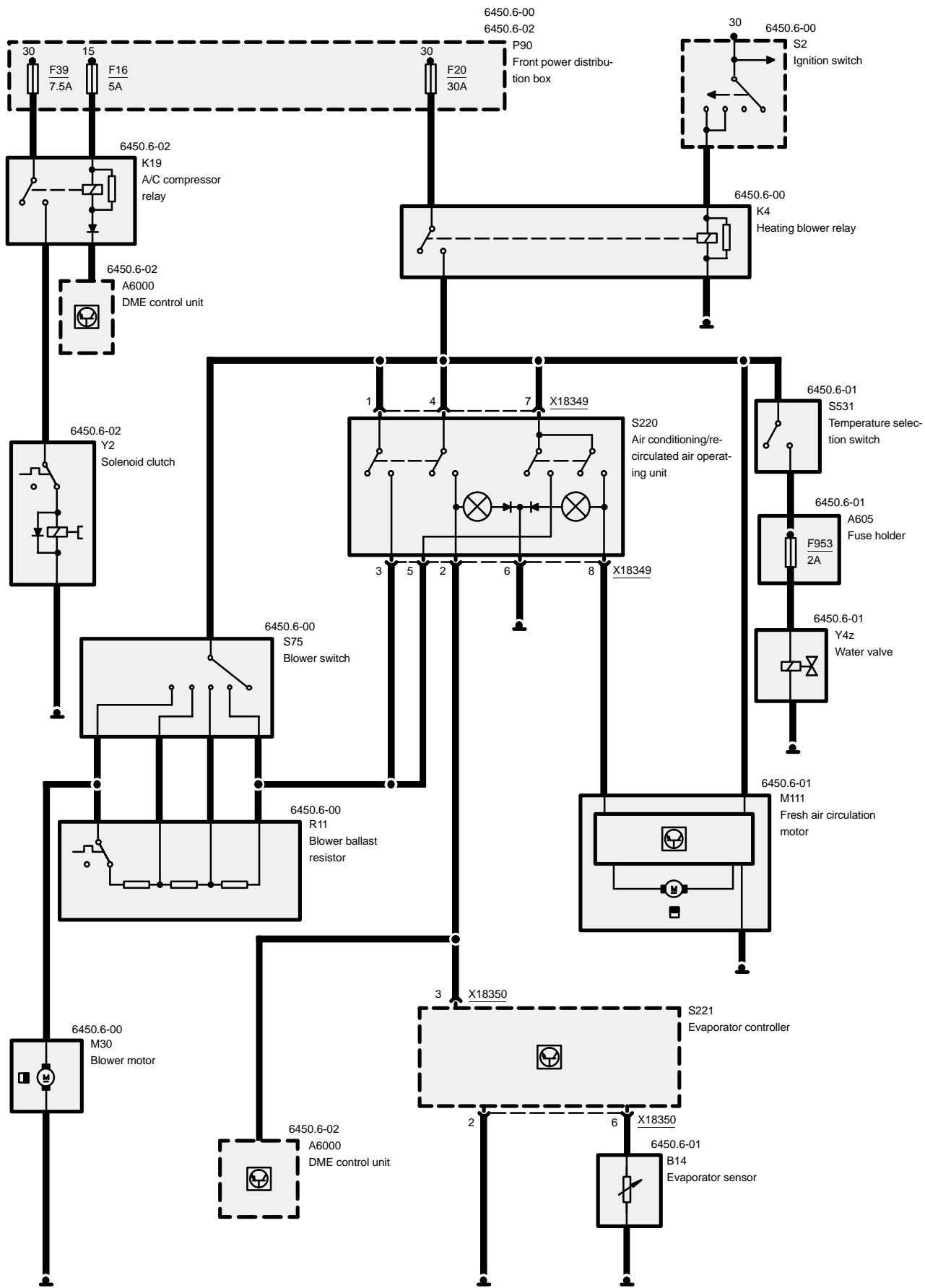


Z3

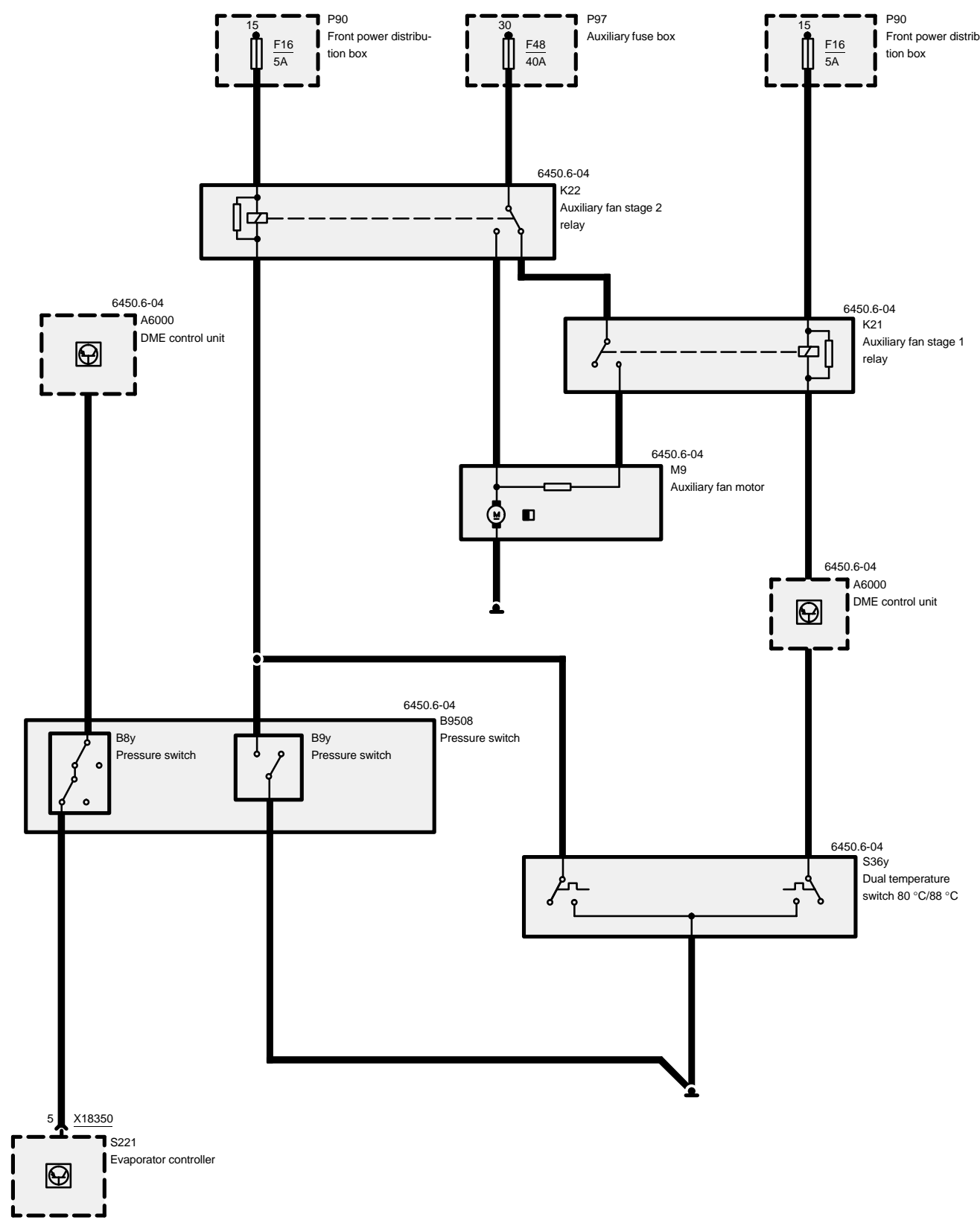
Rear window defogger

Later production

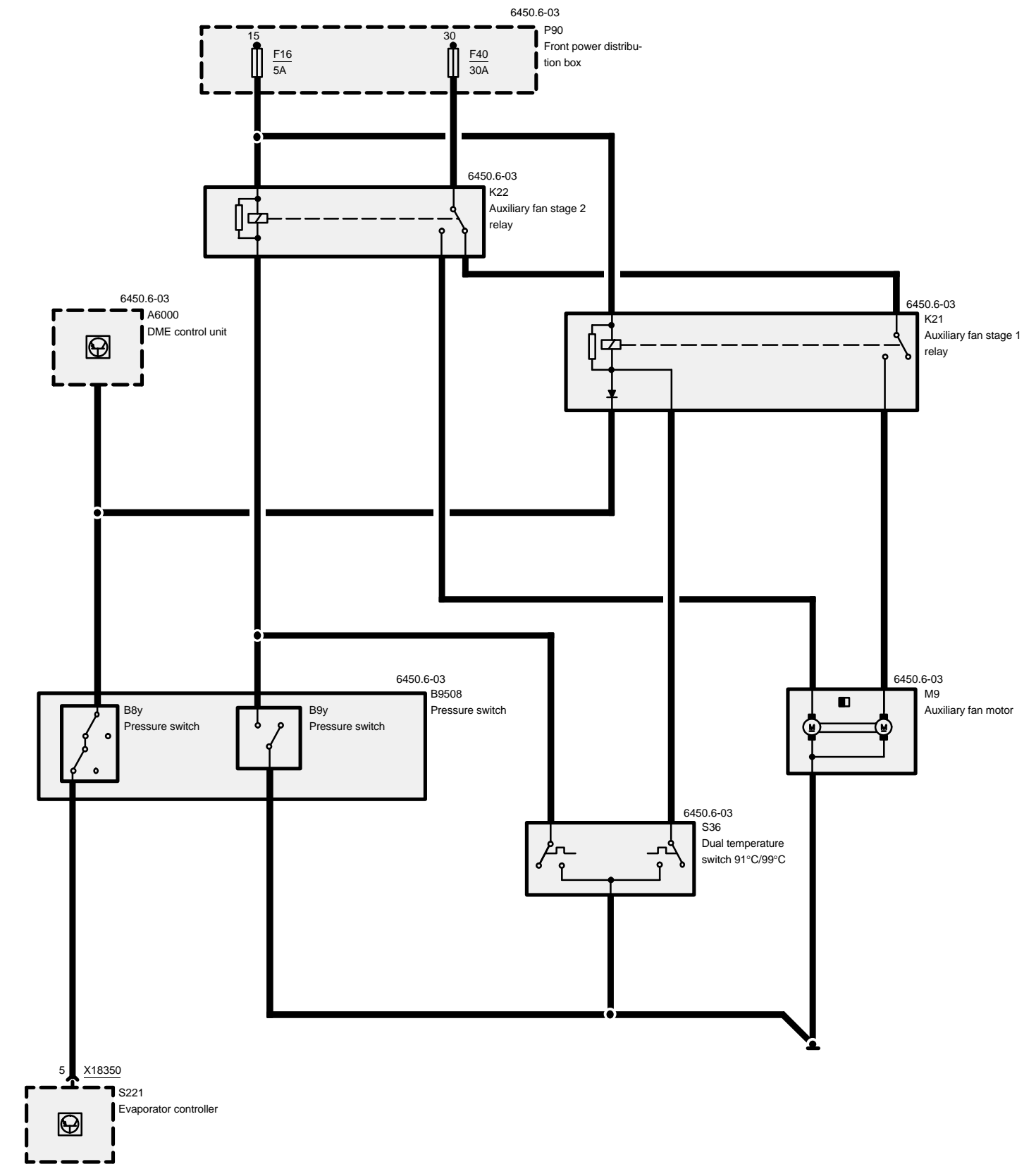




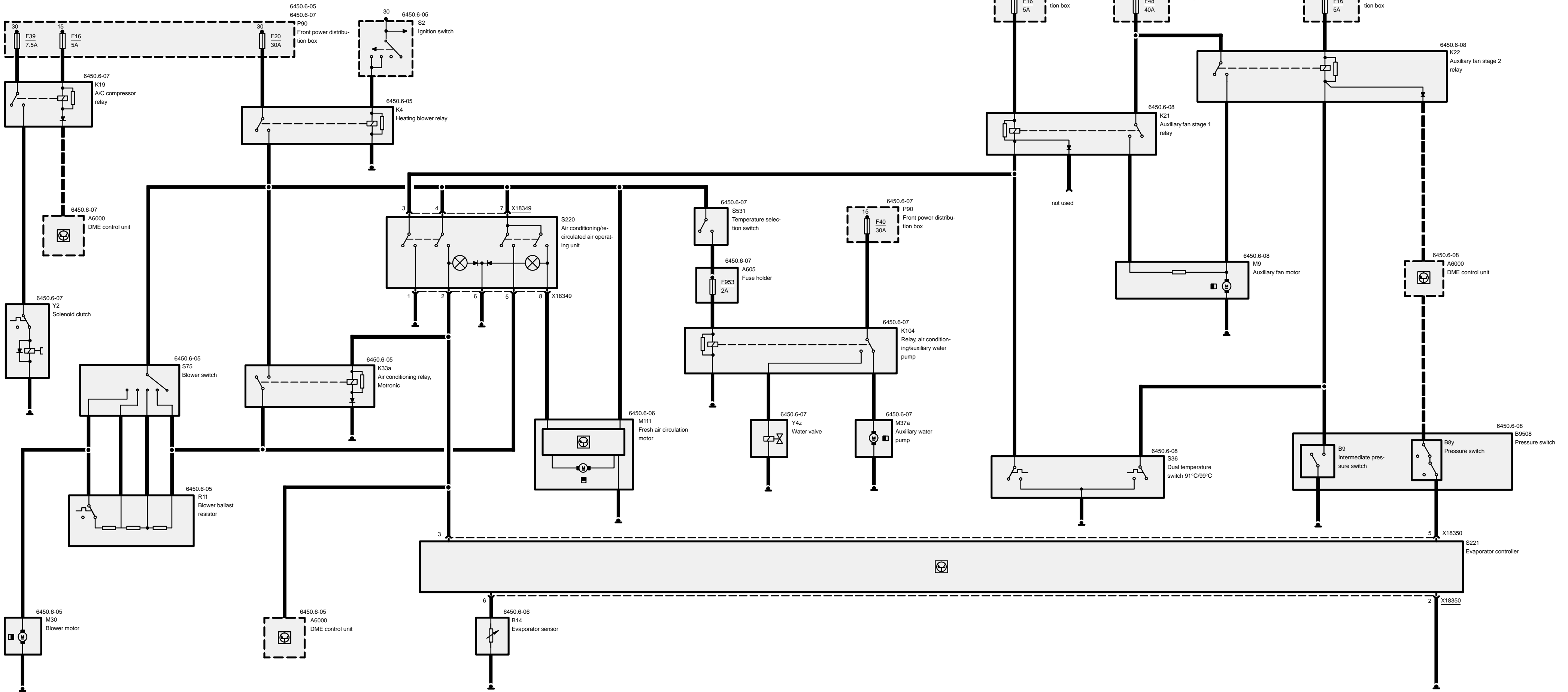
Auxiliary fan – 4-cylinder



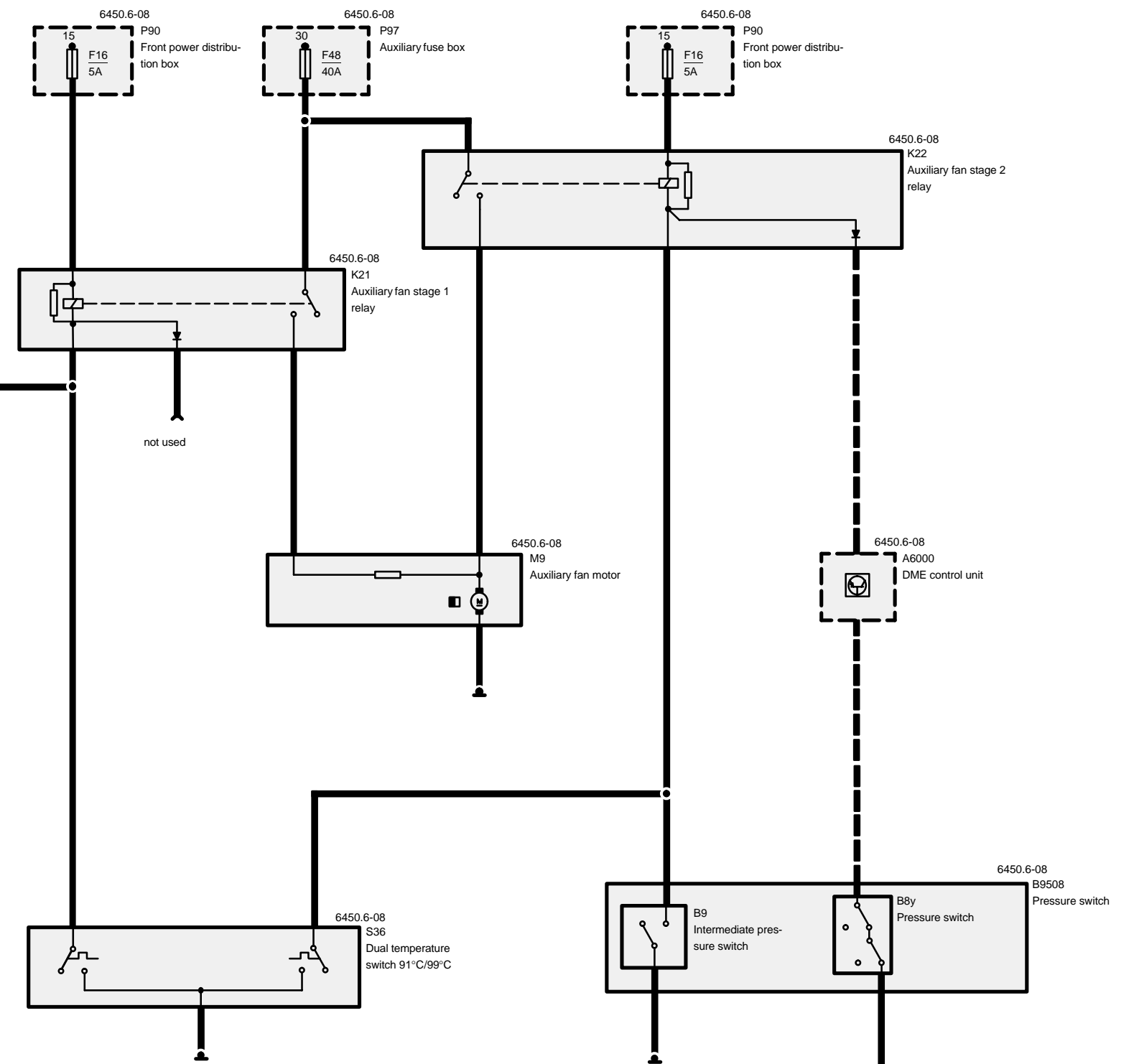
Auxiliary fan – B28



B32

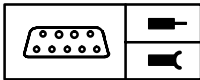


Auxiliary fan





Z3

**Pin assignments (4-cylinder and B28)**

A=X18349 8-pin, black

B=X18350 6-pin, black

X18349

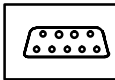
Pin	Type	Description/Function	Connection
1	E	Terminal 15	Heater blower relay
2	A	Activation, compressor clutch	DME control unit
3	A	Blower stage 1 (air conditioning)	Blower series resistor
4	E	Terminal 15	Heater blower relay
5	A	Blower stage 1 (recirculated air)	Blower series resistor
6	M	Ground, indicator lamps	Ground connector
7	E	Terminal 15	Heater blower relay
8	A	Activation, fresh air/recirculated air	Fresh air/recirculated air motor

X18350

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



Z3

**Pin assignments (B32)**

A=X18349 8-pin, black

B=X18350 6-pin, black

X18349

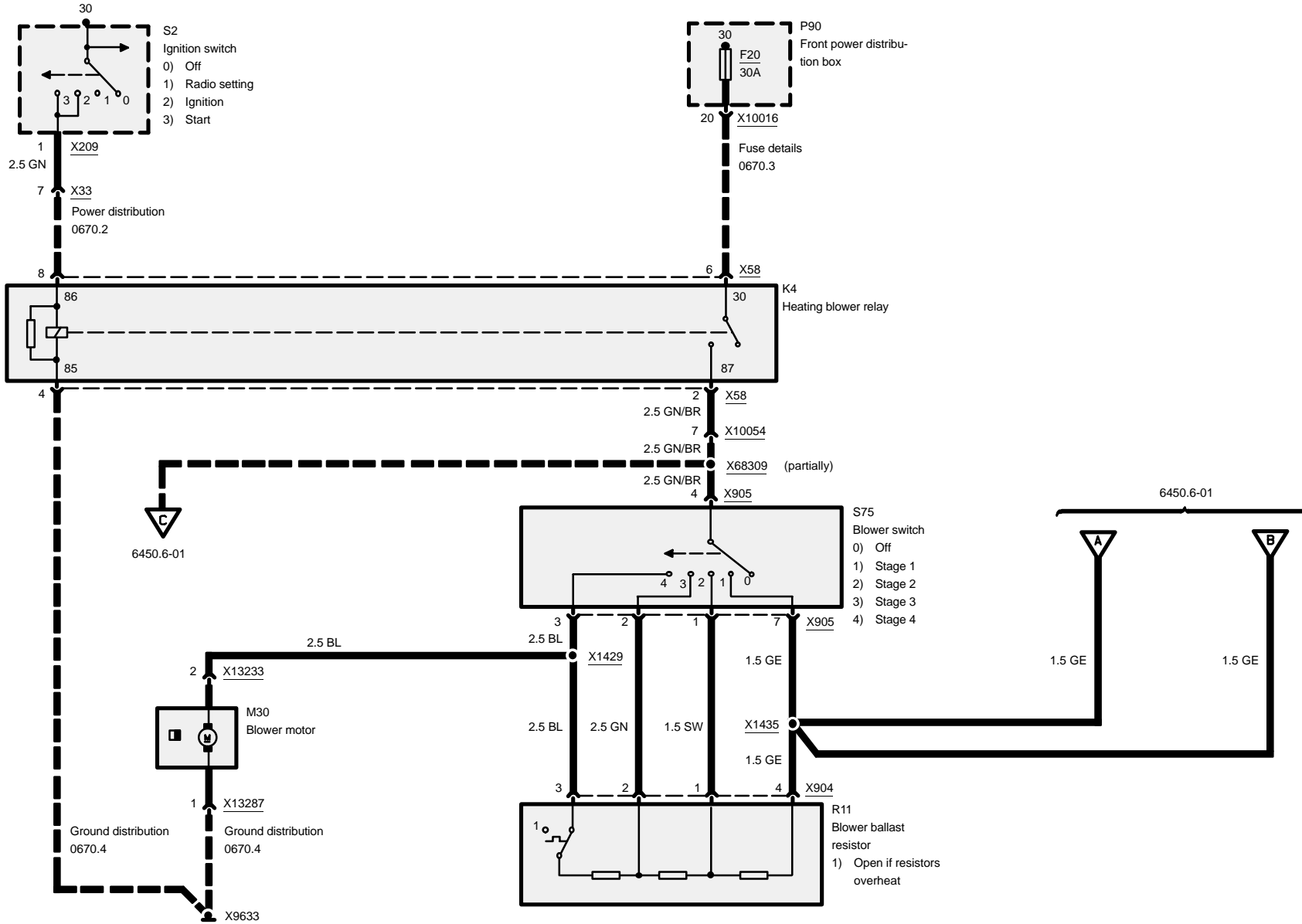
Pin	Type	Description/Function	Connection
1	M	Ground	Ground connection
2	A	Air conditioning ON signal	DME control unit/evaporator regulator/ blower series resistor
3	A	Air conditioning ON signal	Auxiliary fan relay, stage 1
4	E	Terminal 15	Heater blower relay
5	A	Blower stage 1 (recirculated air)	Blower series resistor
6	M	Ground, indicator lamps	Ground connector
7	E	Terminal 15	Heater blower relay
8	A	Activation, fresh air/recirculated air	Fresh air/recirculated air motor

X18350

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

Current, air-flow control

Z3

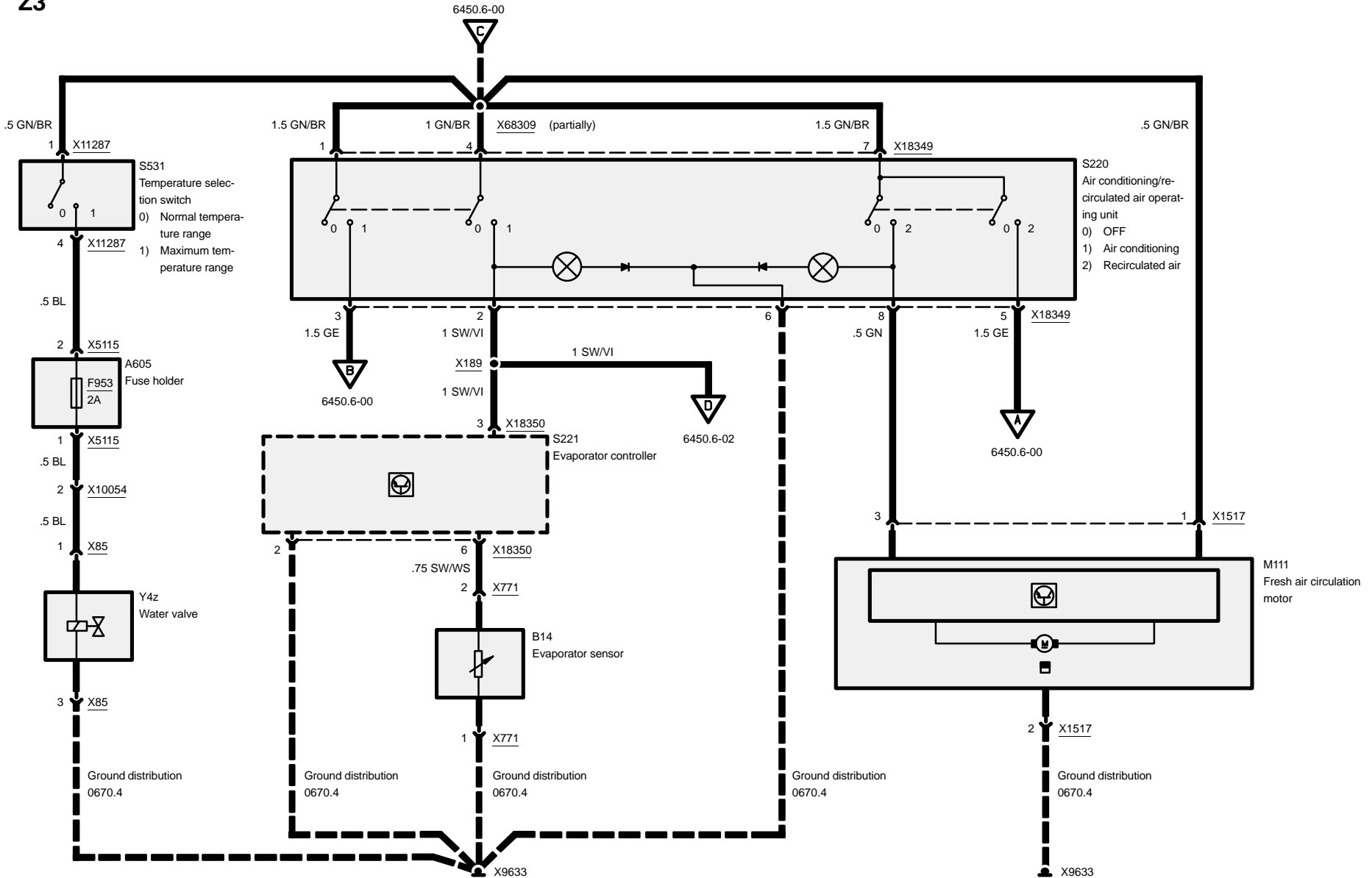




Automatic climate control (IHKS)

4-cylinder and B28

Z3



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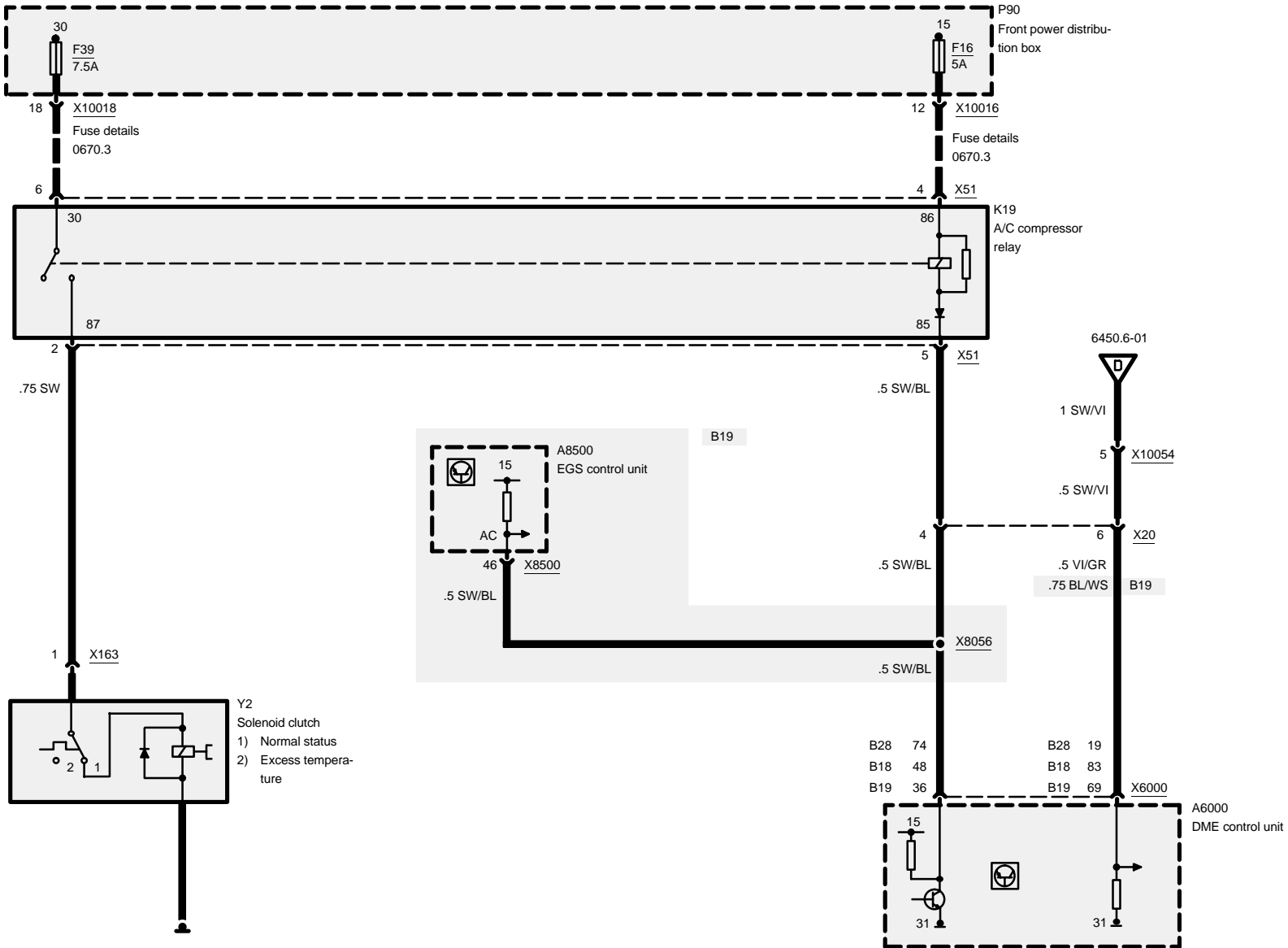


Automatic climate control (IHKS)

4-cylinder and B28

Compressor control

Z3



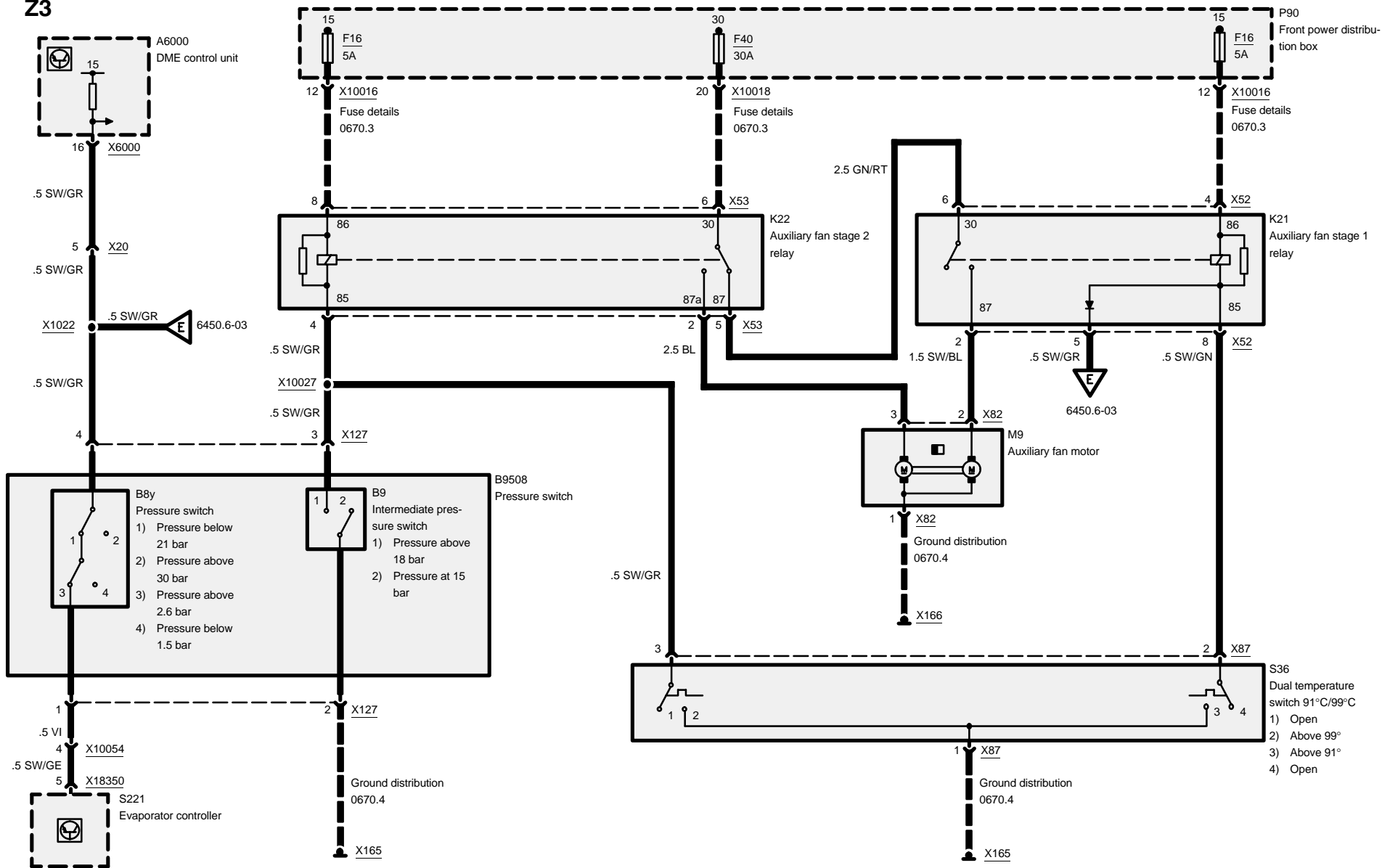


Automatic climate control (IHKS)

Auxiliary fan

B28

Z3



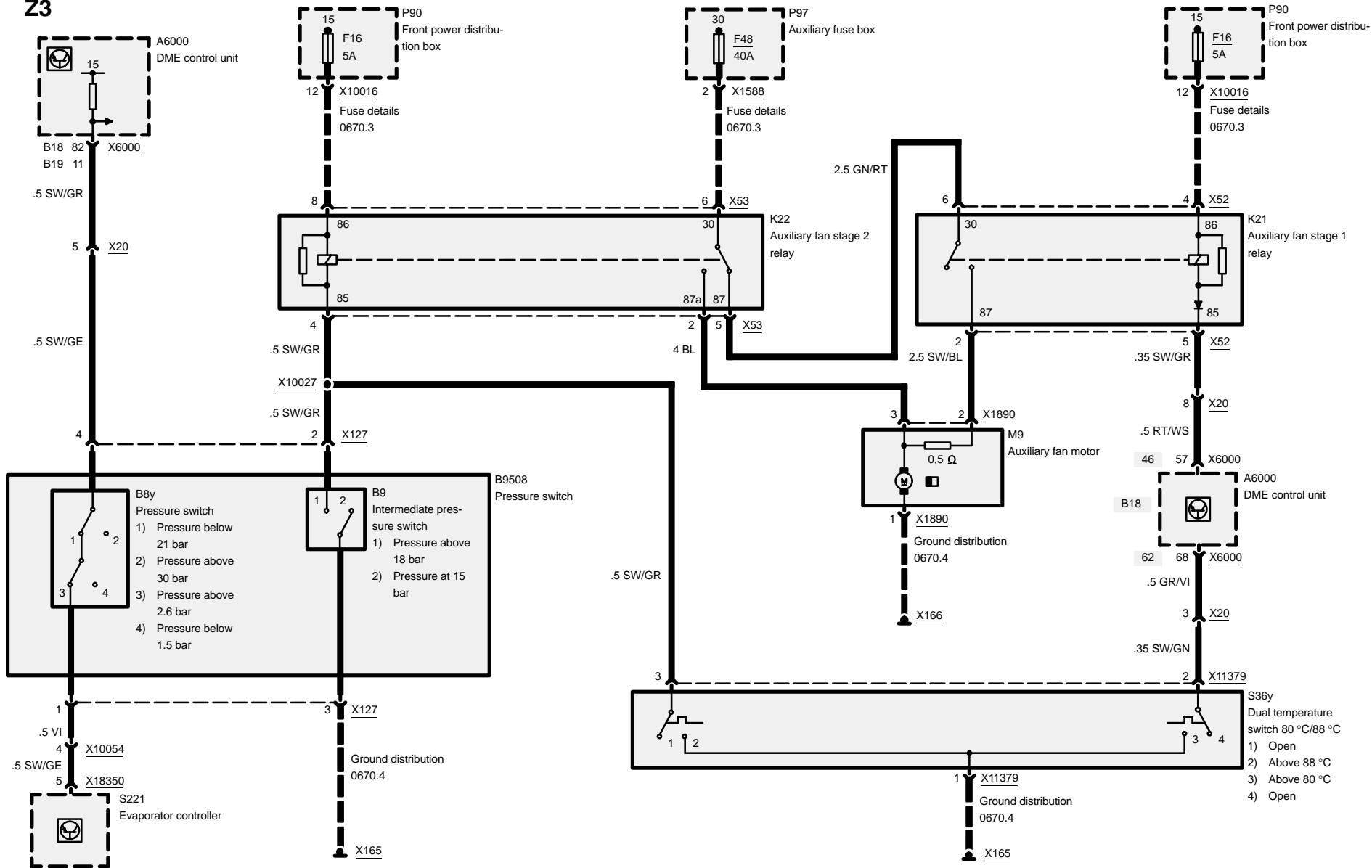


Automatic climate control (IHKS)

4-cylinder

Auxiliary fan

Z3



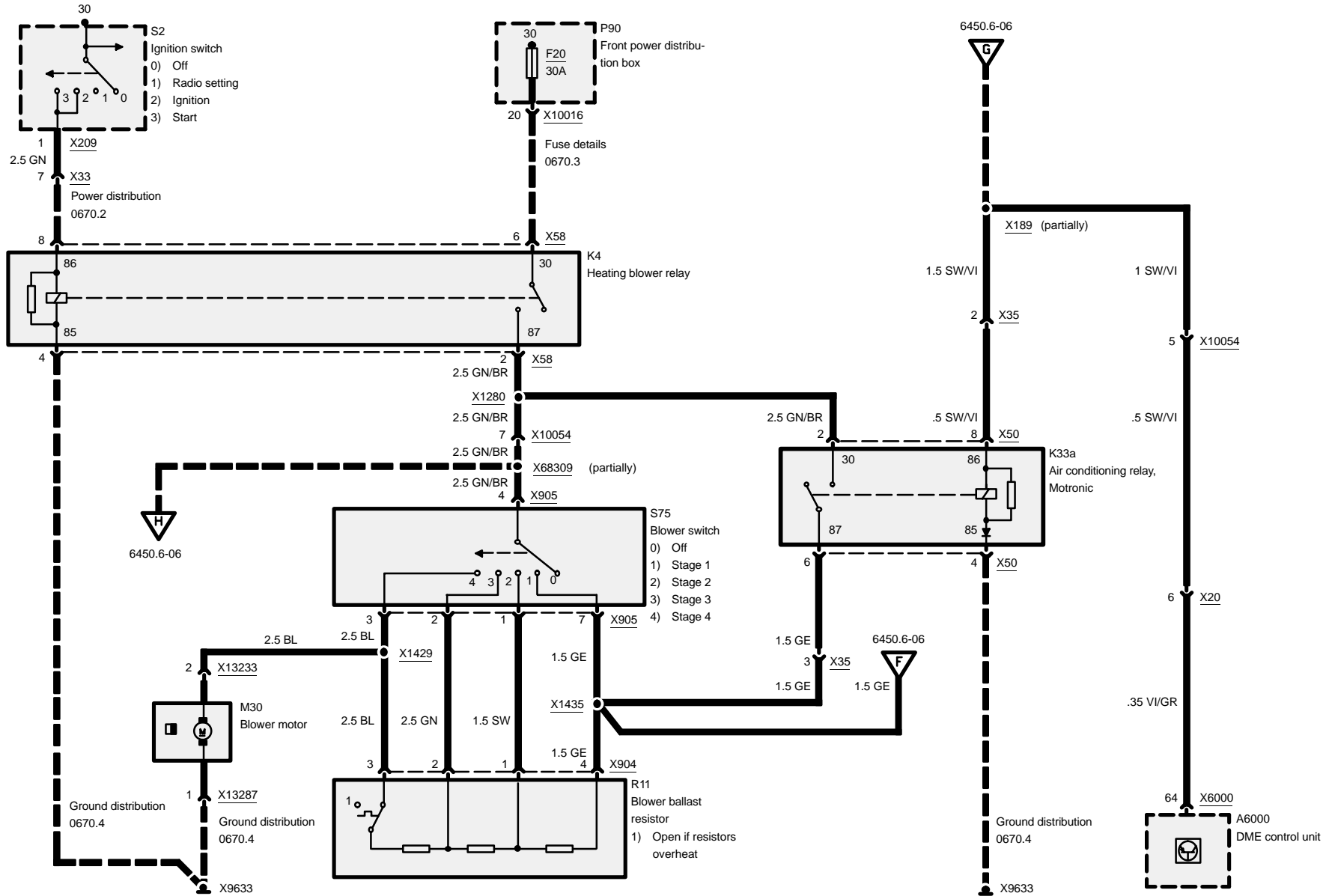


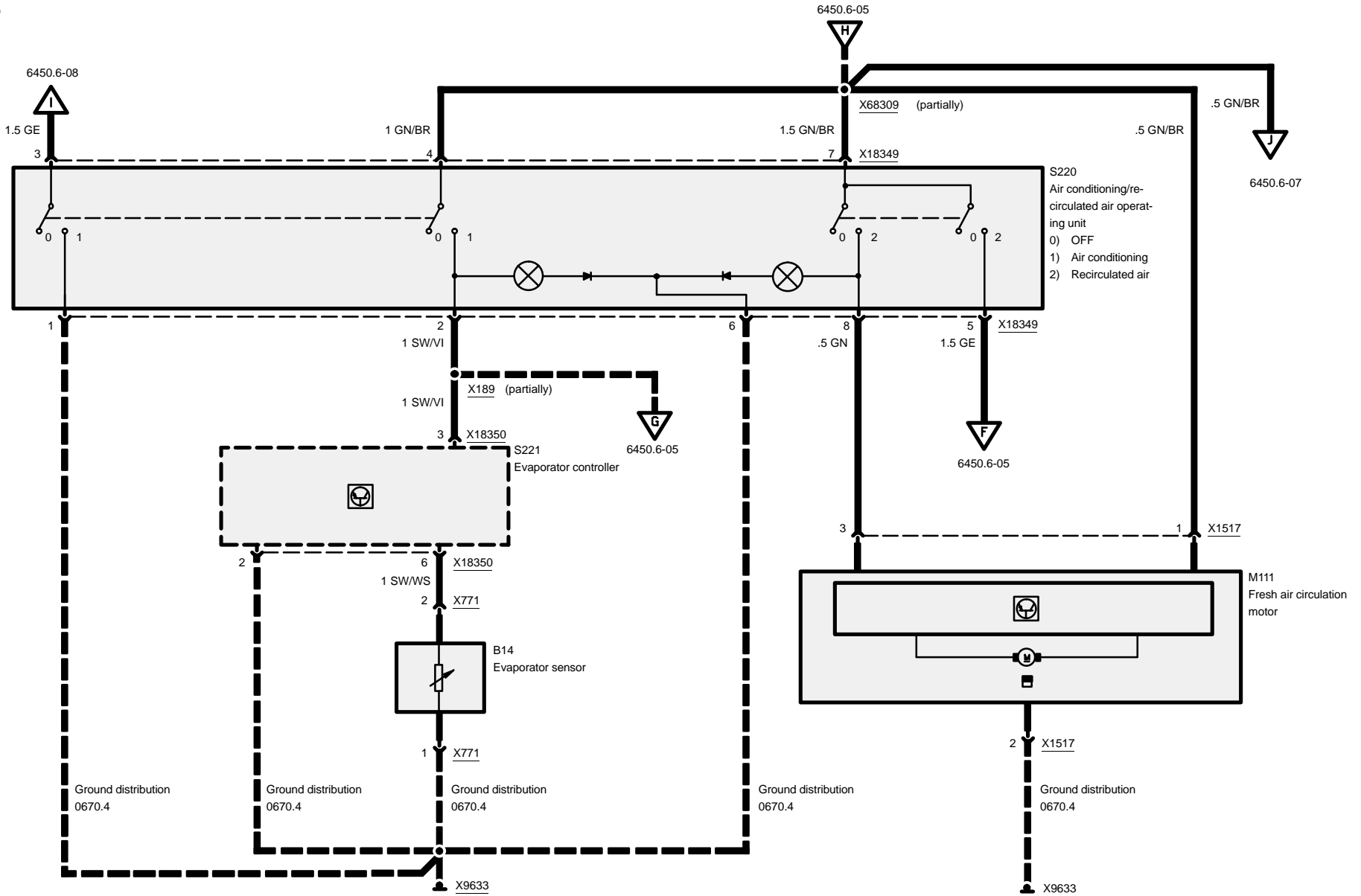
Automatic climate control (IHKS)

B32

Current, air-flow control

Z3





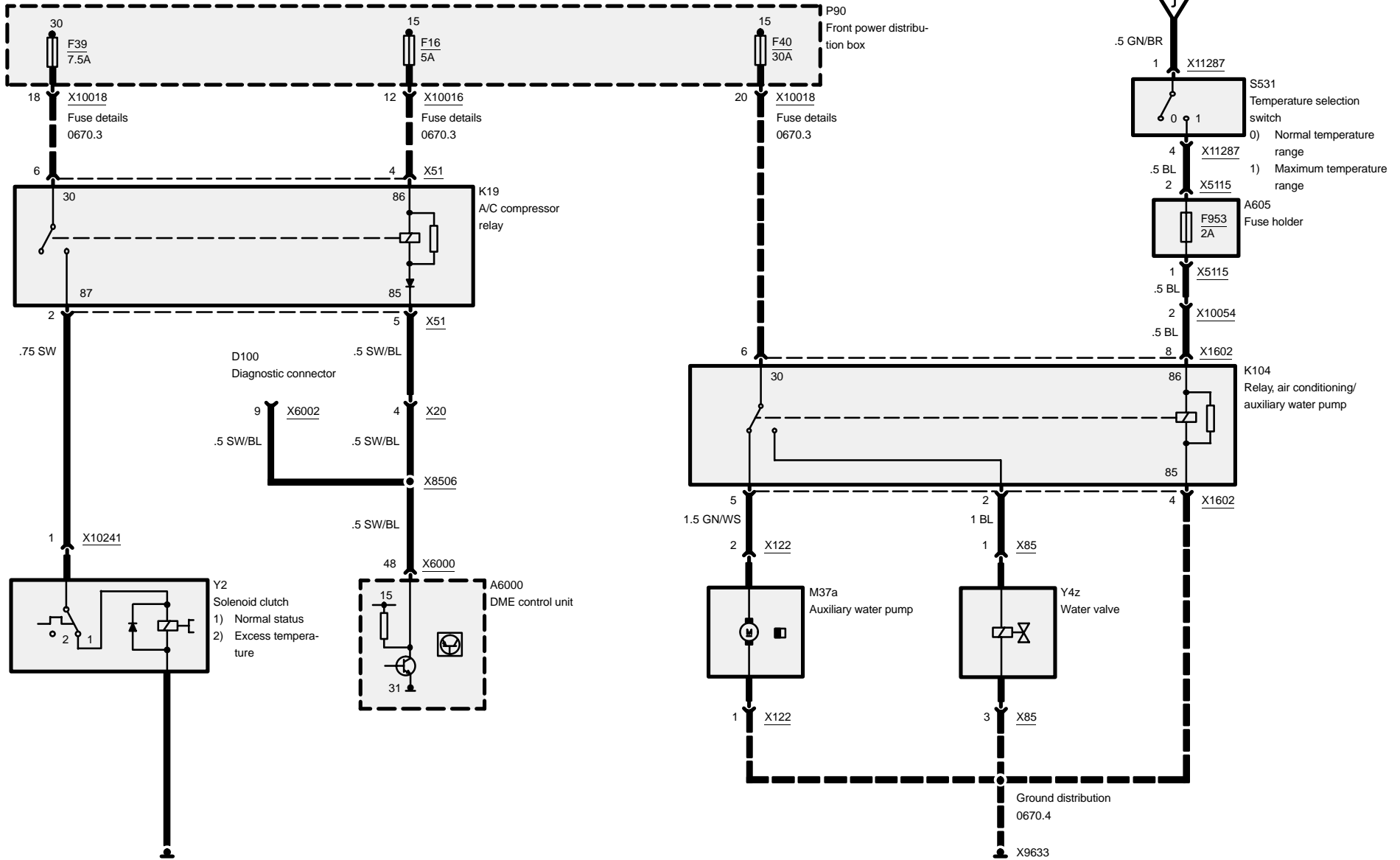


Automatic climate control (IHKS)

Compressor control and water supply

B32

Z3



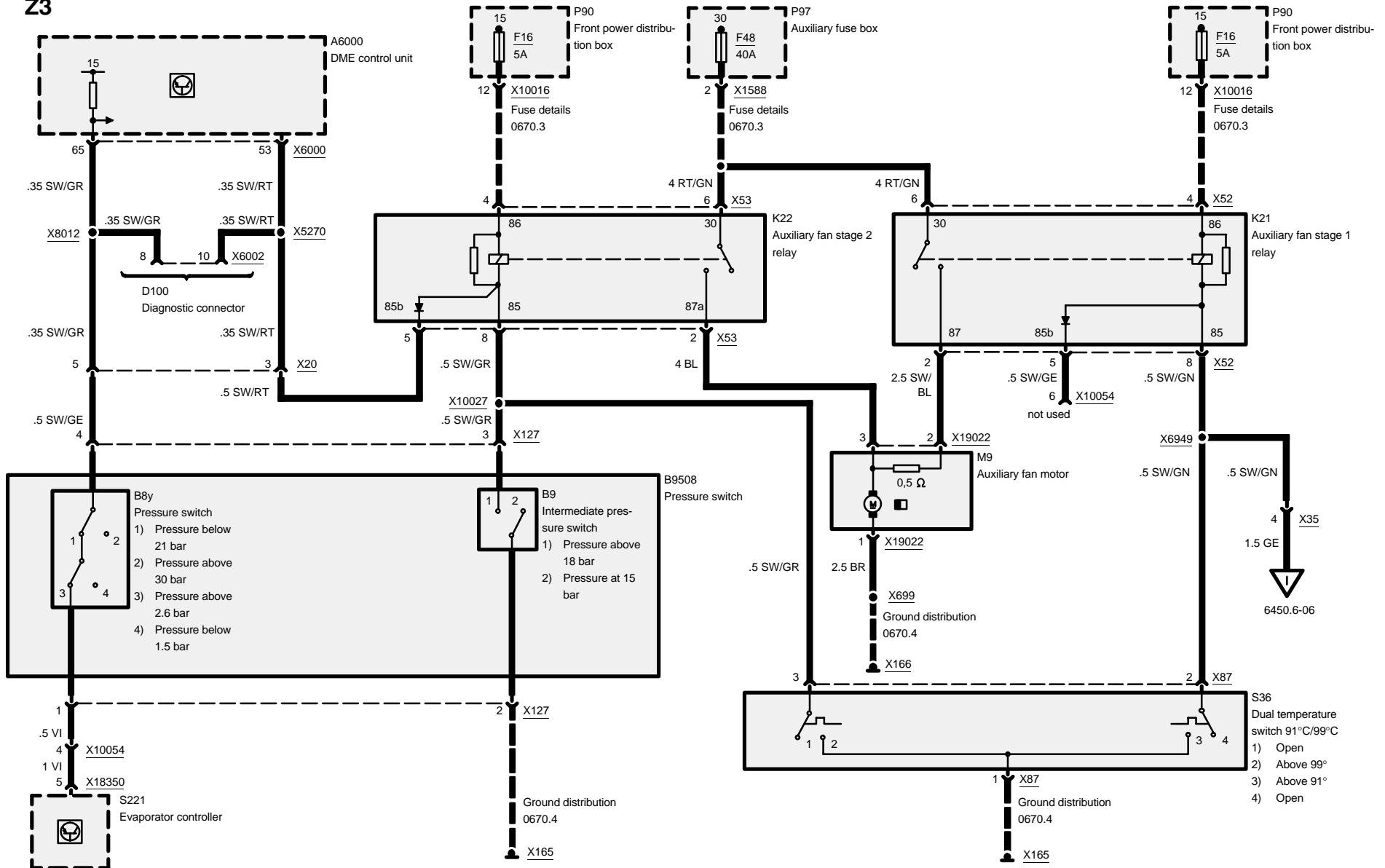


Automatic climate control (IHKS)

B32

Auxiliary fan

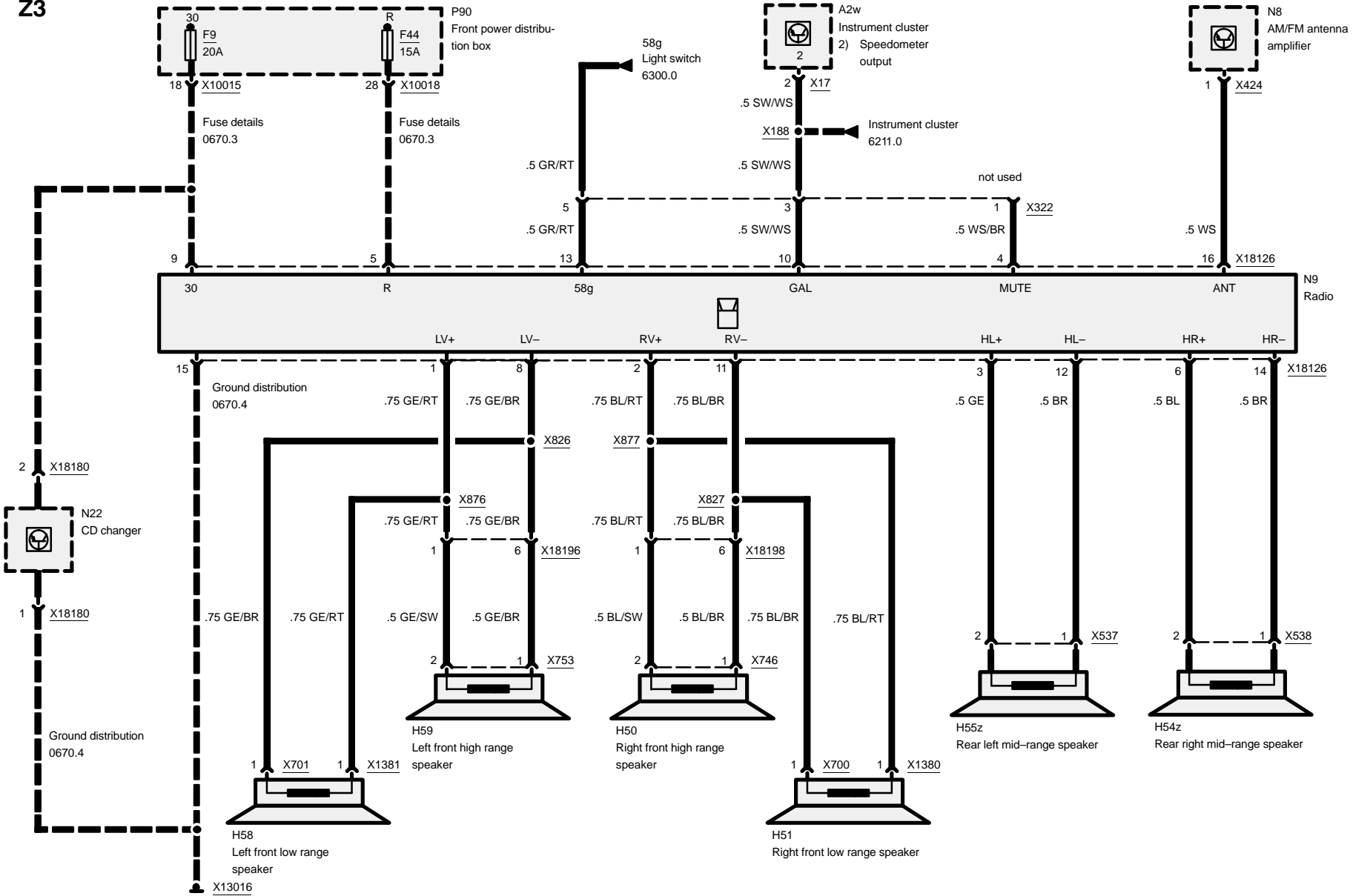
Z3





6510.0 Radio/Stereo

Z3



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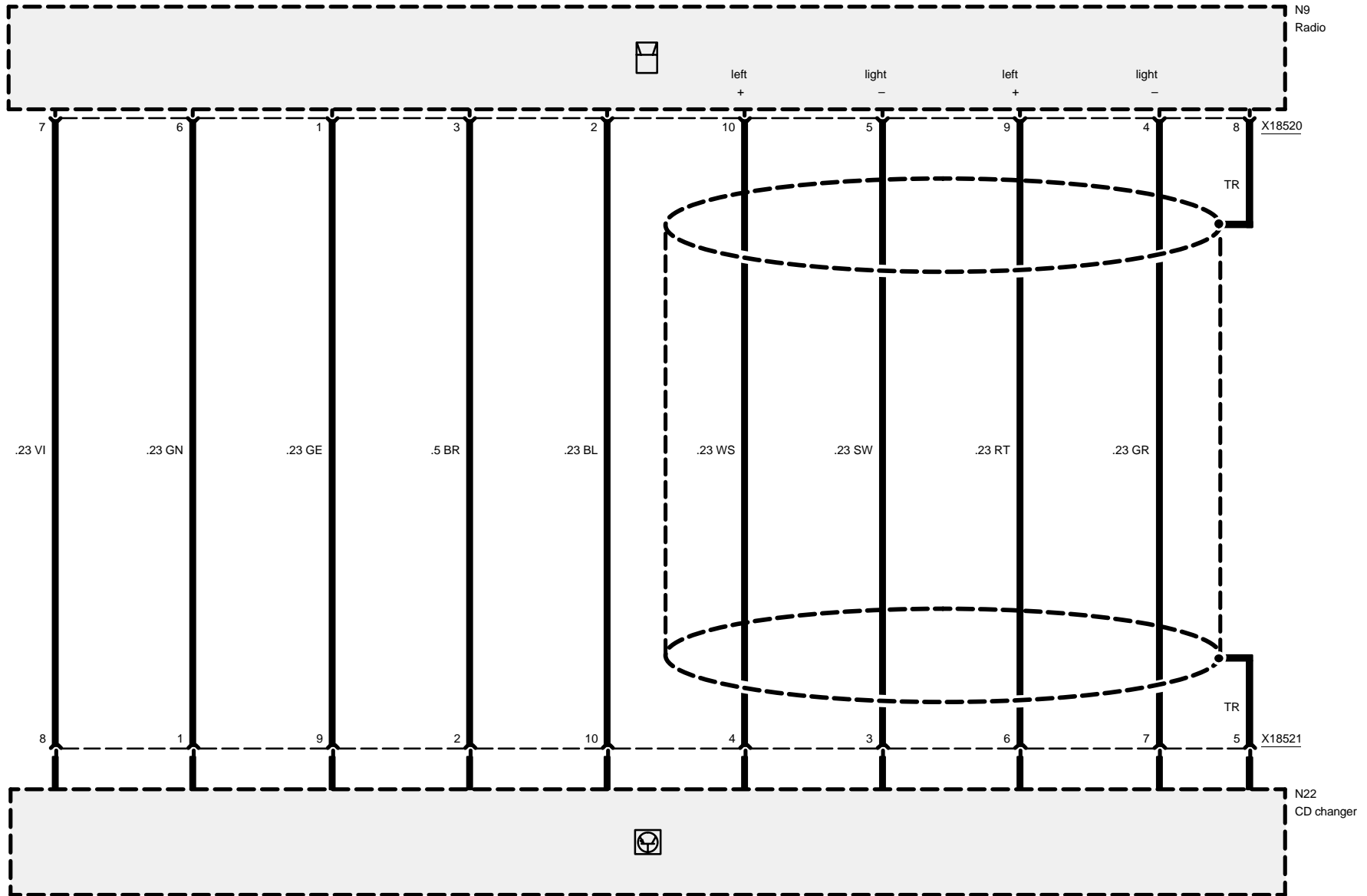
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Radio/Stereo

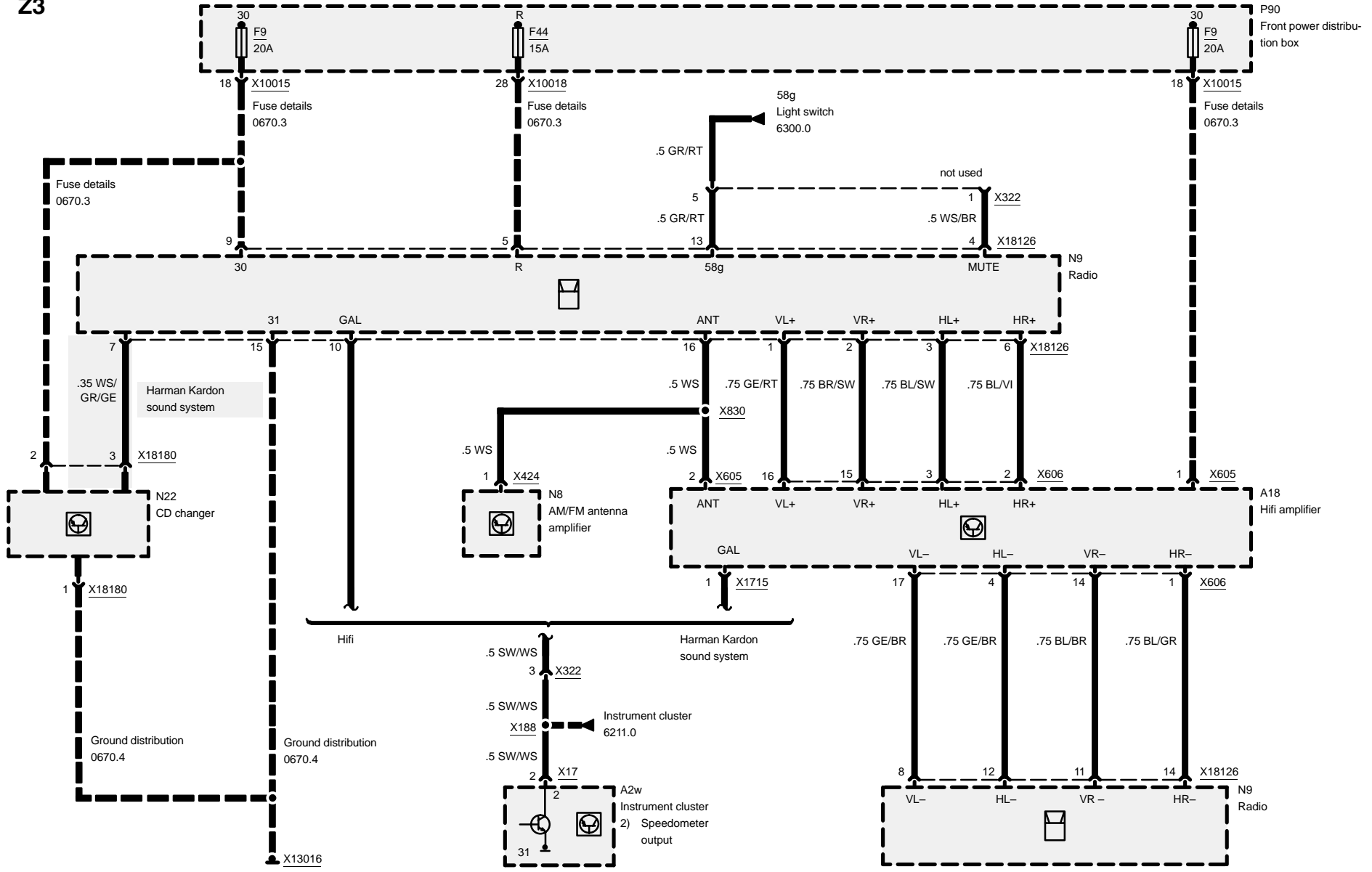
Z3





6510.1 Radio/HiFi

Z3



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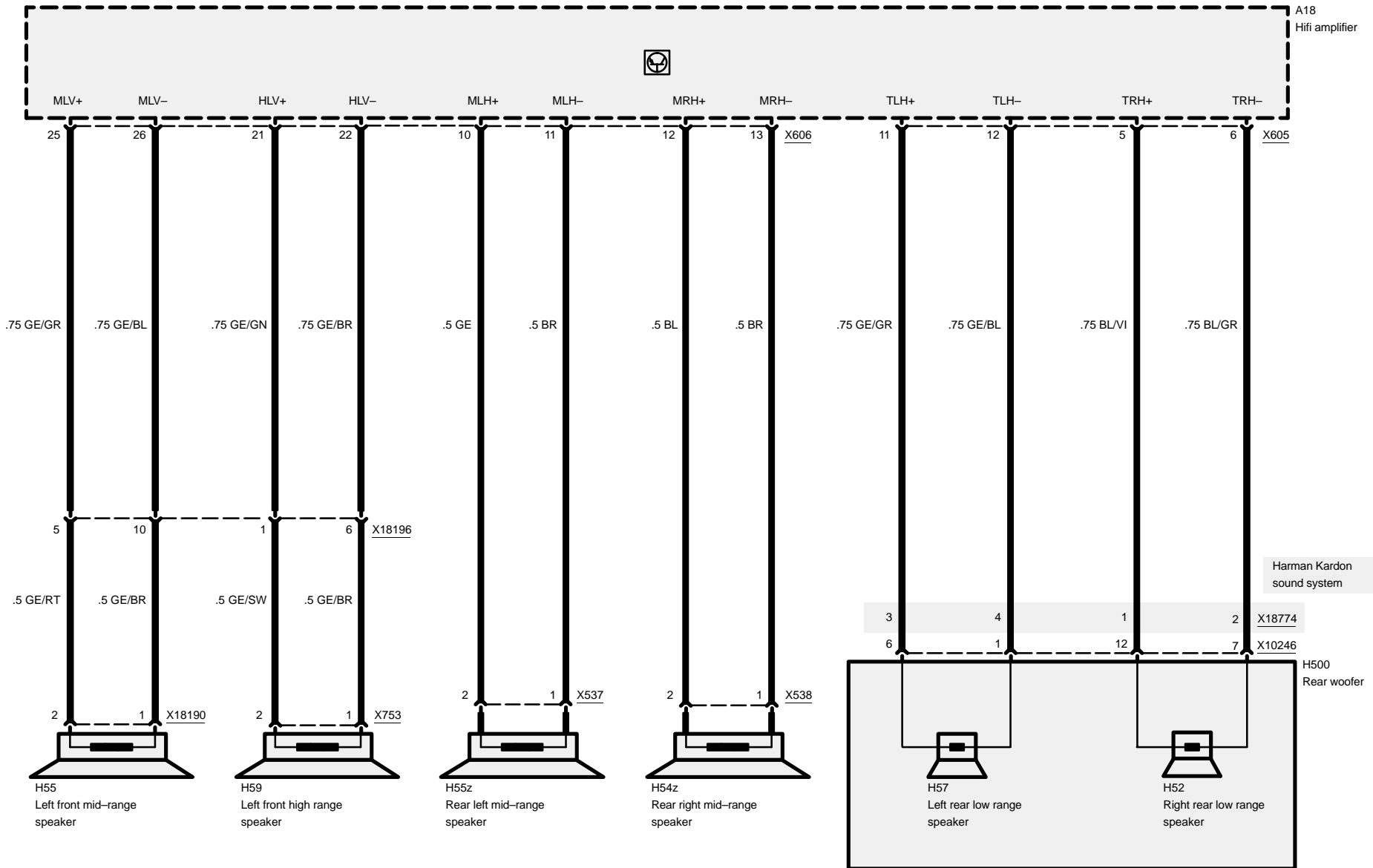
6510.1-00

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Radio/HiFi

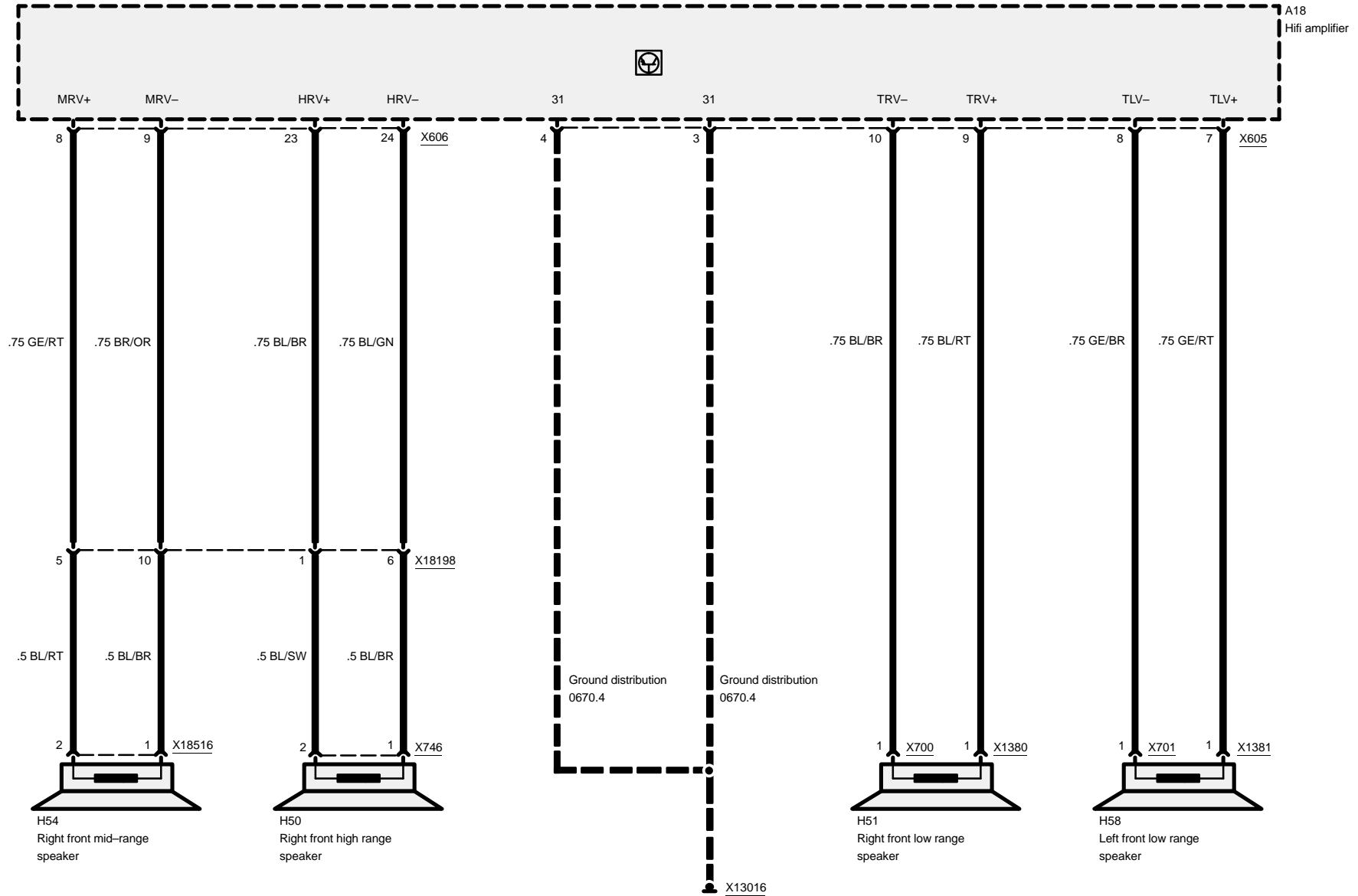
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Radio/HiFi

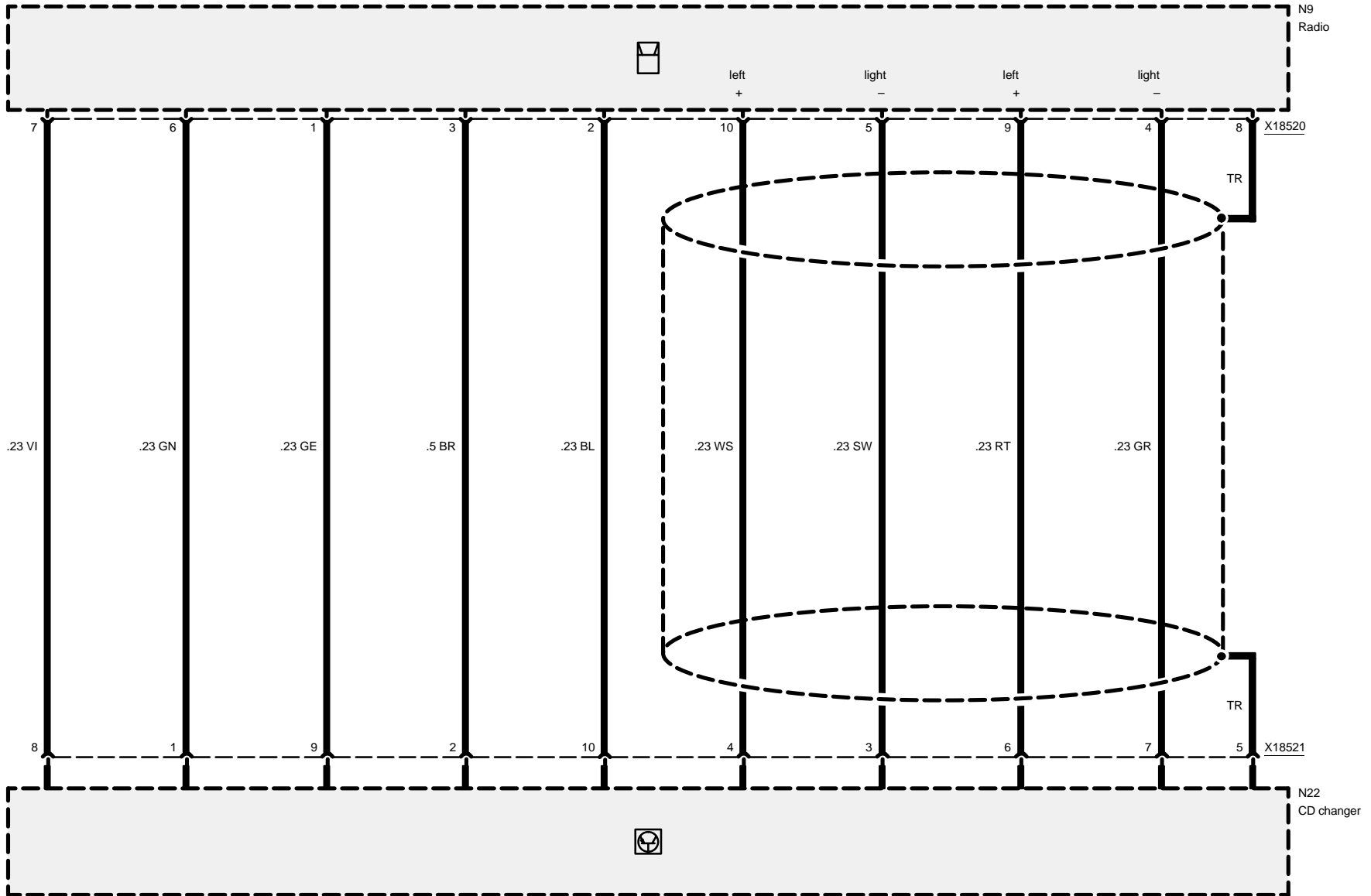
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Radio/HiFi

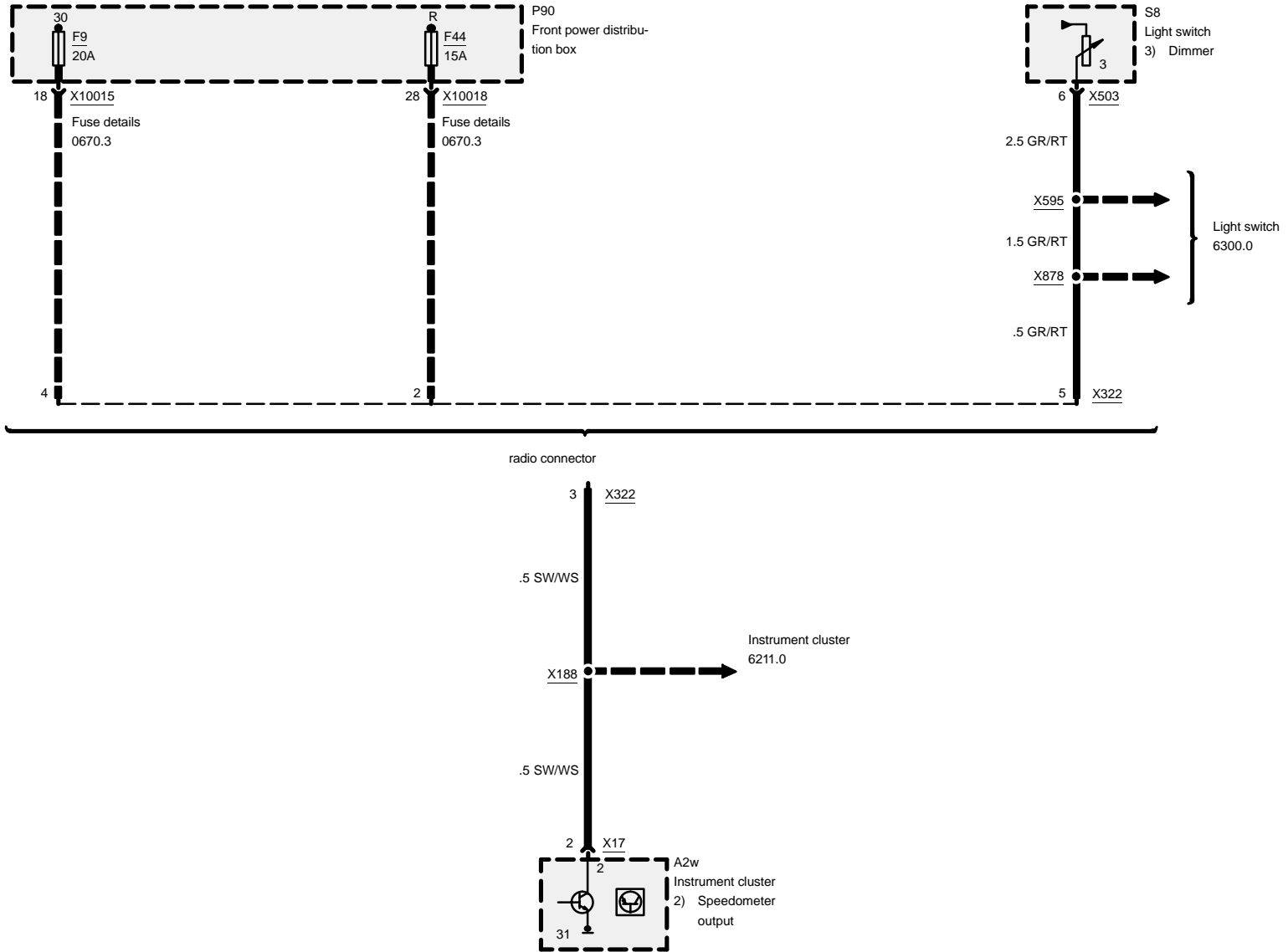
Z3





Z3

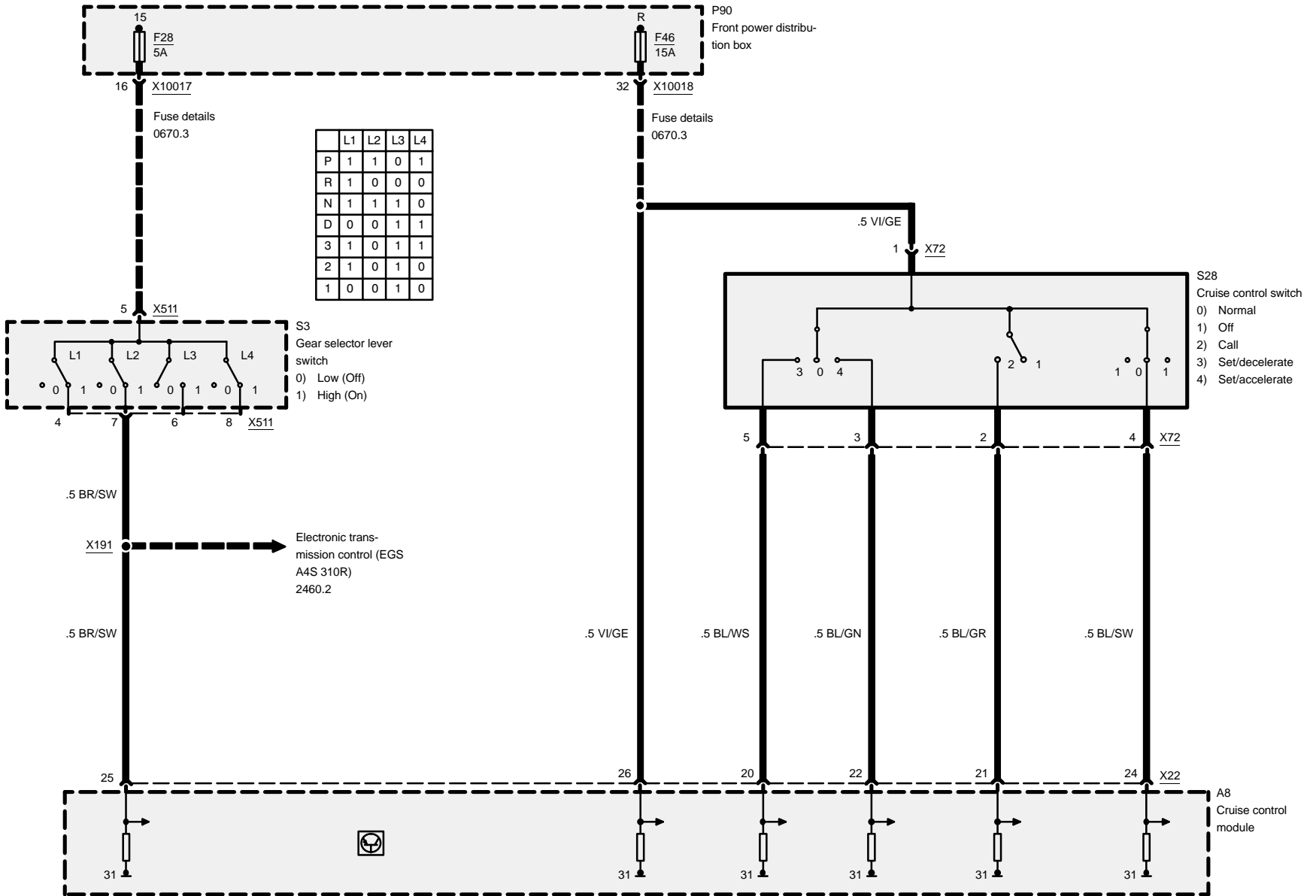
6510.2 Radio provisions





Z3

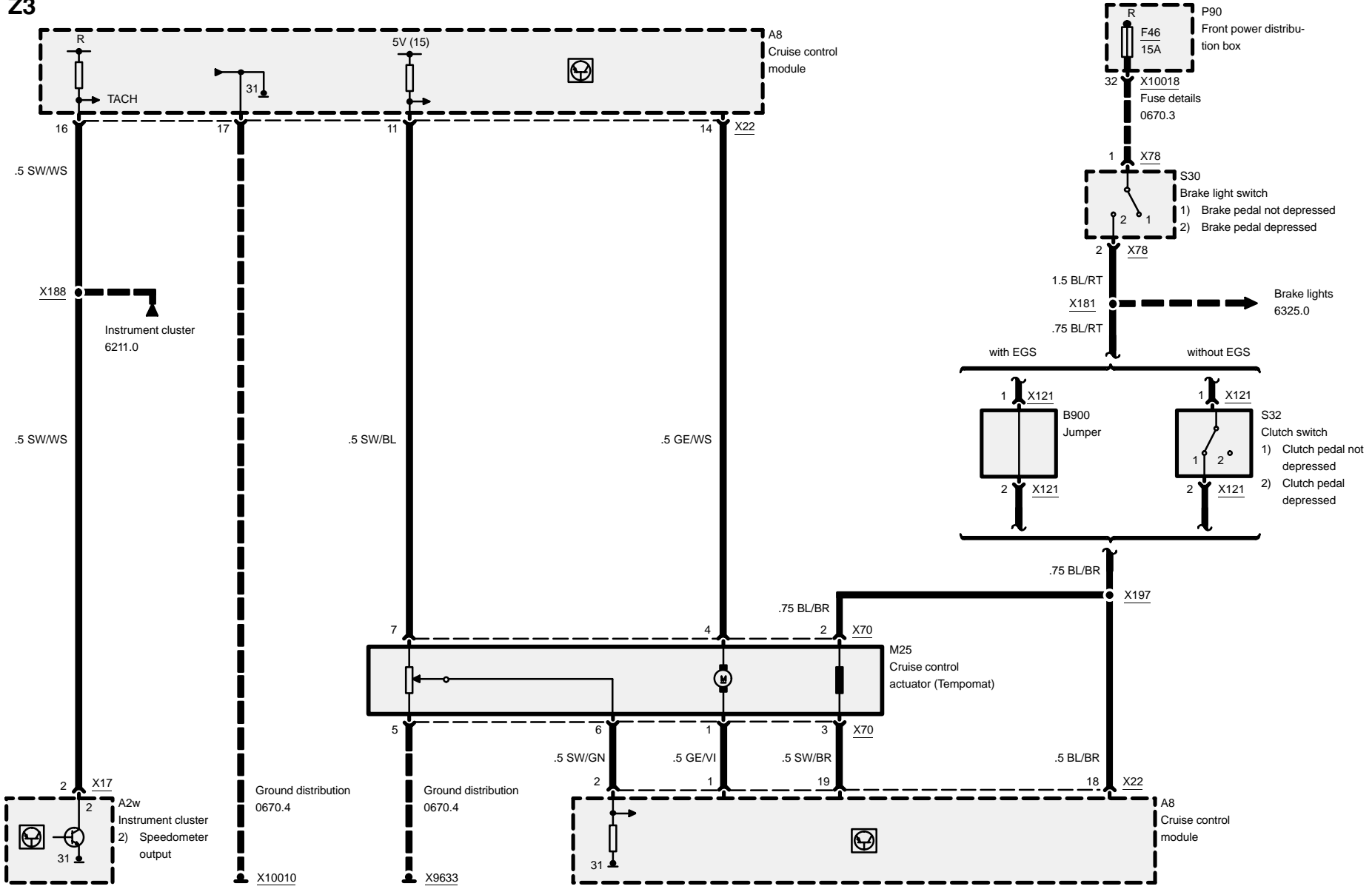
6571.0 Cruise control





Cruise control

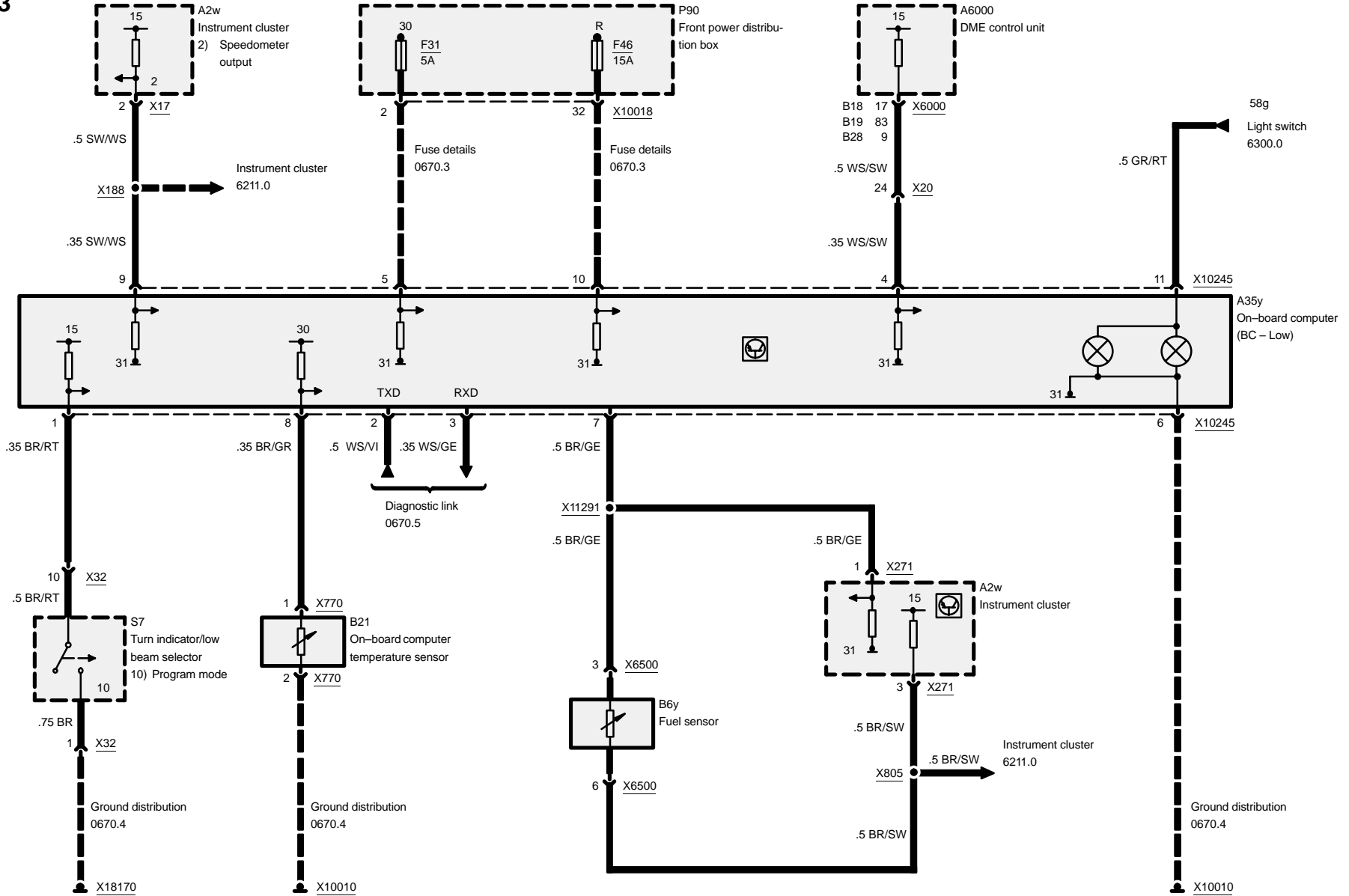
Z3





6581.3 On-board computer (BC - Low)

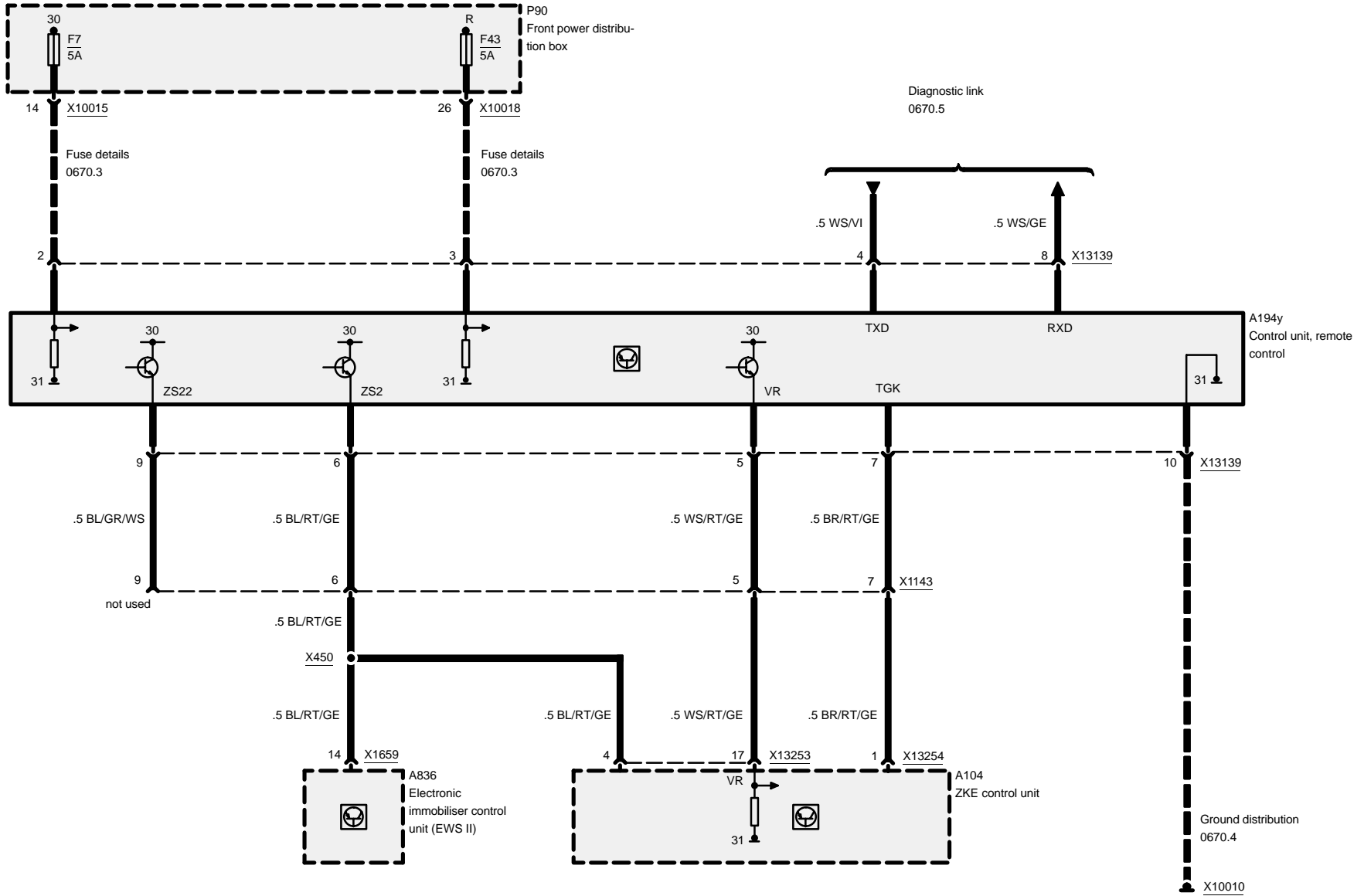
Z3





6610.2 Remote control ZV/DWA

Z3





7000.0 Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
A2w	Instrument cluster	LH side of dash	21-2	
A7	ABS control unit	behind glove compartment	39-1	
A8	Cruise control module	behind glove compartment	00-2	
A12	Airbag diagnostic module	below centre console	23-2	
A18	Hifi amplifier	in LH side of luggage compartment behind trim	28-3	
A35y	On-board computer (BC – Low)	centre console	01-3	
A51	Wipe/wash module	behind glove compartment	00-2	
A52	ABS/ASC control unit	behind glove compartment (4-cylinder) (Earlier production)	00-1	
A52	ABS/ASC control unit	LH side of engine compartment (4-cylinder) (Later production)		
A52	ABS/ASC control unit	behind glove compartment (6-cylinder)	00-3	
A64	Wipe-wash module (Low II)	behind glove compartment	00-2	
A104	ZKE control unit	behind glove compartment	00-2	
A110	Digital clock	centre console		
A113	Electronic seat control	under RH front seat	25-2	
A113	Electronic seat control	under RH front seat (sports seat)	41-2	
A121	Interior movement detector	behind LH footwell trim	44-3	
A123	Interior movement detector II	centre console		
A194y	Control unit, remote control	near interior rear view mirror		
A605	Fuse holder	centre console	29-3	
A835	Transmit/receive module (EWS II)	near steering column	01-2	
A836	Electronic immobiliser control unit (EWS II)	behind glove compartment	00-1	
A6000	DME control unit	rear RH side of engine compartment in electronics box	01-1	



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
A8500	EGS control unit	rear RH side of engine compartment in electronics box	01-1	
B1	Front right ABS sensor	on RH front wheel, above brake calliper		
B2	Front left ABS sensor	on LH front wheel, above brake calliper	13-3	
B3	Rear right ABS sensor	on RH rear wheel, above brake calliper		
B4	Rear left ABS sensor	on LH rear wheel, above brake calliper		
B6y	Fuel sensor	installed in fuel tank		
B8y	Pressure switch	front RH side of engine compartment		
B9	Intermediate pressure switch	front RH side of engine compartment		
B10	Speedometer reed contact	on differential	16-2	
B14	Evaporator sensor	RH side of LH footwell	22-2	
B16	Front left brake pad sensor	on LH front wheel, above brake calliper	13-3	
B17	Rear right 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	wheel well, front right (B28)	35-2	
B21	On-board computer temperature sensor	on front LH wheel well (4-cylinder)	13-1	
B21z	Outside temperature sensor	RH rear wheel well	43-1	
B28	Gradient monitor (DWA)	in LH side of luggage compartment behind trim	28-2	
B59	Oil temperature gauge	centre console		
B78	Driver's side impact sensor	under LH front seat	38-3	
B79	Passenger's side impact sensor	under RH front seat	38-1	
B900	Jumper	LH footwell		
B921	Outside temperature gauge	centre console		



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
B6200	Heated oxygen sensor	under centre of car (B18)	15-1	
B6203	Crankshaft sensor	RH side under front of vehicle (B18)	12-1	
B6203	Crankshaft sensor	rear LH side of engine compartment (B19)	10-2	
B6203	Crankshaft sensor	rear LH side of engine compartment (B28)	32-3	
B6203	Crankshaft sensor	front of engine (B32)		
B6204	Camshaft sensor	front of engine (B18)	10-3	
B6204	Camshaft sensor	front of engine (B28)	34-3	
B6205	Intake air temperature sensor	front LH side of engine compartment (4-cylinder)	12-2	
B6205	Intake air temperature sensor	LH side of engine compartment (B28)	34-2	
B6205	Intake air temperature sensor	LH side of engine compartment (B32)	37-3	
B6207	Hot-film air mass meter	front of engine	33-3	
B6209	Hall sensor, camshaft	front of engine (B19)		
B6210	Heated oxygen sensor 1	under centre of car		
B6217	Hot film air mass meter	front LH side of engine compartment	10-1	
B6231	Oil pressure switch	LH bottom of engine		
B6231	Oil pressure switch	LH bottom of engine (B28)	32-2	
B6232	Remote thermometer sensor	front of engine	11-2	
B6233	Air flow meter	LH side of engine compartment		
B6236	Coolant temperature sensor	rear of engine compartment		
B6238	Oil temperature sensor	RH side of oil filter		
B6240	Knock sensor	front top of engine (4-cylinder)	11-2	
B6240	Knock sensor	front top of engine (B28)	33-2	



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
B6241	Knock sensor 1 (cyl. 1 and 2)	LH top of engine		
B6242	Knock sensor 2 (cyl. 3 and 4)	LH top of engine		
B6243	Knock sensor 3 (cyl. 5 and 6)	LH top of engine		
B6254	Oil level switch, thermal	underside of oil tray		
B6256	Dual temperature sensor (coolant temperature)	rear of engine compartment		
B6256	Dual temperature sensor (coolant temperature)	front LH side of engine compartment (B28)	32-1	
B6277	VANOS sensor 1 (inlet)	front of engine	36-2	
B6278	VANOS sensor 2 (exhaust)	front of engine	37-1	
B9508	Pressure switch	front RH side of engine compartment	31-2	
B62001	Oxygen sensor in front of catalytic converter	under centre of car (B19)	15-3	
B62101	Oxygen sensor I in front of catalytic converter	RH side under centre of vehicle		
B62201	Oxygen sensor II in front of catalytic converter	RH side under centre of vehicle		
C101	Volute spring	top of steering column	25-1	
D100	Diagnostic connector	rear RH side of engine compartment	34-1	
D5010	Decoupling diode D+	rear LH side of engine compartment		
E7	Left headlight	front LH side of engine compartment		
E8	Right headlight	front RH side of engine compartment		
E9	Rear window defogger I	hardtop		
E11	Left high beam	near front LH headlight	30-1	



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
E12	Right high beam	near front RH headlight		
E13	Left headlight	near front LH headlight	30-1	
E14	Right headlight	near front RH headlight	30-3	
E15	Left parking light	near front LH headlight		
E16	Left tail light	LH side of body rear end		
E17	Right tail light	RH side of body rear end	03-1	
E19	Right parking light	near front RH headlight		
E21	Left side-marker light	on front LH wheel well		
E22	Right side-marker light	wheel well, front right		
E25	Front ashtray light	centre console		
E26	Left fog light	under front LH bumper		
E27	Right fog light	under front RH bumper	14-2	
E28	Front cigar lighter	centre console		
E28a	Connection for cigar lighter	tyre inflation system		
E29	Front cigar lighter light	centre console	23-3	
E32	Luggage compartment light	in luggage compartment		
E43	Left licence plate light	underside of rear lid, near number plate		
E44	Right licence plate light	underside of rear lid, near number plate		
E51	Left windscreen washer jet heater	underside of front lid	17-2	
E52	Right windscreen washer jet heater	underside of front lid	17-2	
E56	Driver's backrest heating	in top of LH backrest		
E57	Driver's seat heating	under LH front seat		



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
E58	.. Passenger's seat heating	bottom of RH front seat		
E59	.. Passenger's backrest heating	in top of RH backrest		
E82	.. Gear indicator light	centre console	23-1	
E96	.. Shift lever light	centre console		
E105	.. Operating unit lighting I, heating control	centre of dash	22-3	
E106	.. Operating unit lighting II, heating control	centre of dash	22-3	
E800	.. Front left interior light	near interior rear view mirror		
F97	... Fuse link	RH side of luggage compartment	03-1	
G1	... Battery	RH side of luggage compartment	03-1	
G5	... Driver's airbag gas generator	behind steering wheel		
G6	... Passenger's airbag gas generator	behind glove compartment top		
G12	.. Pyrotechnical belt tensioner, driver's side	in LH front seat belt buckle	39-2	
G13	.. Pyrotechnical belt tensioner, passenger's side	in RH front seat belt buckle	39-2	
G14	.. Gas generator, left side airbag	LH front door	41-3	
G15	.. Gas generator, right side airbag	RH front door	38-2	
G6430	B+ external start terminal point	rear RH side of engine compartment	03-2	
G6509	Alternator	front LH side of engine compartment	02-3	
H2	... Left horn	under front LH bumper		
H3	... Right horn	wheel well, front right	14-2	
H4	... Front right flasher unit	front of vehicle		
H7	... Front left flasher unit	front of vehicle		



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
H8	Front right auxiliary flasher unit	front of vehicle		
H9	Front left auxiliary flasher unit	front of vehicle		
H10	Gong I	under LH side of dash		
H26	Left rear fog light	LH side of body rear end		
H29	Right rear fog light	RH side of body rear end		
H34	Raised brake light	on rear lid		
H50	Right front high range speaker	in top of RH front door		
H51	Right front low range speaker	in bottom of RH A-post		
H52	Right rear low range speaker	in rear speaker box		
H54	Right front mid-range speaker	in top of RH front door		
H54z	Rear right mid-range speaker	in rear speaker box	43-2	
H55	Left front mid-range speaker	in top of LH front door		
H55z	Rear left mid-range speaker	in rear speaker box	40-1	
H57	Left rear low range speaker	in rear speaker box		
H58	Left front low range speaker	in bottom of LH A-post		
H59	Left front high range speaker	in top of LH front door		
H67	DWA siren	rear LH side of engine compartment	09-1	
H500	Rear woofer	in rear left speaker box		
I1008	Seat mat	in seat cushion, passenger's seat		
K2	Horn relay	rear LH side of engine compartment in power distribution box	09-2	
K4	Heating 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	



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
K10	ABS overvoltage protection relay	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	A/C compressor relay	rear LH side of engine compartment in power distribution box	09-3	
K21	Auxiliary fan stage 1 relay	rear LH side of engine compartment in power distribution box	09-3	
K22	Auxiliary fan stage 2 relay	rear LH side of engine compartment in power distribution box	09-3	
K25	Right parking light/licence plate light relay	front power distribution box		
K26	Left parking light relay	front power distribution box		
K33a	Air conditioning relay, Motronic	rear LH side of engine compartment in power distribution box	08-3	
K46	High beam relay	rear LH side of engine compartment in power distribution box	09-2	
K47	Fog light relay	rear LH side of engine compartment in power distribution box	09-2	
K48	Headlight relay	rear LH side of engine compartment in power distribution box	09-2	
K75	ABS pump motor relay	rear LH side of engine compartment in power distribution box	09-3	
K104	Relay, air conditioning/auxiliary water pump	under LH side of dash	20-1	
K200	Relay lighting Scandinavia	front power distribution box		
K910	Passenger seat height adjustment cut-off relay	under passenger's seat	41-1	
K911	Passenger seat fore and aft adjustment cut-off relay	under passenger's seat	41-1	
K920	Driver's seat height adjustment cut-off relay	under driver's seat	40-2	
K921	Driver's seat fore and aft adjustment cut-off relay	under driver's seat	40-2	
K6300	DME relay	rear RH side of engine compartment in electronics box	01-1	
K6300	DME relay	rear RH side of engine compartment in electronics box (B32)	36-3	



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
K6301	Electrical fuel pump relay	under LH side of dash	20-1	
K6303	Oxygen sensor relay	rear RH side of engine compartment in electronics box	01-1	
K6309	Oxygen sensor and air pump relays	rear RH side of engine compartment in electronics box	36-3	
K6315	Relay, unloader terminal 15 and starter recognition	rear RH side of engine compartment in electronics box	36-3	
K6326	Unloader relay, terminal 15	rear RH side of engine compartment in electronics box	01-1	
K6394	Compressor relay	tyre inflation system		
K18363	Convertible soft top relay I (close)	in LH side of luggage compartment	26-3	
K18364	Convertible soft top relay II (open)	in LH side of luggage compartment	26-3	
L1	Toroidal coil EWS	at ignition switch		
M2 ...	Fuel pump (EKP I)	installed in fuel tank		
M3 ...	Wiper motor	rear of engine compartment		
M4 ...	Washer pump	front RH side of engine compartment on washer fluid reservoir	42-1	
M7 ...	Headlight washer pump	front RH side of engine compartment on washer fluid reservoir	42-1	
M9 ...	Auxiliary fan motor	vehicle front, behind grille		
M12 ..	Central locking (ZV) drive driver's door	driver's door		
M13 ..	Central locking (ZV) drive passenger's door	passenger's door		
M17 ..	Central locking drive rear lid	in rear of luggage compartment behind trim		
M21 ..	Driver's window motor	in driver's door	18-2	
M23 ..	Passenger's window motor	in passenger's door	19-3	
M25 ..	Cruise control actuator (Tempomat)	rear LH side of engine compartment	08-3	
M30 ..	Blower motor	rear of engine compartment		



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
M37a	Auxiliary water pump	rear LH side of engine compartment	42-3	
M51	Driver's seat movement motor	under LH front seat	26-1	
M51	Driver's seat movement motor	under LH front seat (sports seat)	40-3	
M52	Driver's seat height adjustment motor	under LH front seat	26-1	
M52	Driver's seat height adjustment motor	under LH front seat (sports seat)	40-3	
M59	Passenger's seat height adjustment motor	under RH front seat	25-2	
M60	Passenger's seat movement motor	under RH front seat	25-2	
M80	Left headlight beam angle adjust actuator	near front LH headlight	30-1	
M81	Right headlight beam angle adjust actuator	near front RH headlight	30-3	
M93	ADS actuator	front of engine	35-3	
M101	Convertible soft top drive	in LH side of luggage compartment	26-3	
M111	Fresh air circulation motor	RH side of LH footwell	22-2	
M805	Electrical compressor	tyre inflation system		
M6506	Fan, E-box	rear LH side of engine compartment in electronics box	08-1	
M6510	Starter	rear LH side of engine compartment	02-2	
N5	Analogue clock	centre console		
N8	AM/FM antenna amplifier	in LH side of luggage compartment behind trim		
N9	Radio	centre console		
N17	Crash alarm sensor	footwell, driver's side	20-1	
N22	CD changer	in front LH side of luggage compartment		
P90	Front power distribution box	rear LH side of engine compartment		
P97	Auxiliary fuse box	under LH side of dash	20-1	



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
R11 ...	Blower ballast resistor	behind centre of dash (with IHKS)		
R11 ...	Blower ballast resistor	on engine bulkhead (with HR)		
R13 ..	Headlight beam angle adjust potentiometer .	LH side of dash		
R31 ..	ADS potentiometer	front of engine	33-3	
R6240	Resistor	front of engine		
R6252	Throttle potentiometer	front of engine (4-cylinder)	11-3	
R6252	Throttle potentiometer	front of engine (B28)	33-3	
R6252	Throttle potentiometer	front of engine (B32)	36-2	
S2	Ignition switch	LH side of dash		
S3	Gear selector lever switch	centre console	23-1	
S4	Horn switch	on steering wheel		
S5	Windscreen wiper switch	LH side of dash right of steering column top		
S6	ASC switch	centre console		
S7	Turn indicator/low beam selector	LH side of dash left of steering column top		
S8	Light switch	LH side of dash		
S10 ..	Fog light switch	LH side of dash		
S13 ..	Passenger's door contact switch	RH B-pillar	27-1	
S14 ..	Driver's door contact switch	LH B-pillar	28-1	
S17 ..	Driver's power mirror switch	in top of LH front door		
S18 ..	Hazard warning switch	under centre console		
S20 ..	Antitheft (DWA) radio microswitch	centre console	29-3	
S28 ..	Cruise control switch	LH side of dash right of steering column top		



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
S30	Brake light switch	LH footwell	21-1	
S31	Handbrake switch	centre console on rear of handbrake lever	39-3	
S32	Clutch switch	LH footwell	21-1	
S36	Dual temperature switch 91°C/99°C	front RH side of engine compartment	31-1	
S36y	Dual temperature switch 80 °C/88 °C	RH top of radiator		
S47	Driver's door lock switch	in driver's door	18-1	
S49	Passenger's door lock switch	in passenger's door		
S51	Driver's seat adjustment switch	LH front seat		
S53	Driver's seat heating switch	centre console	24-1	
S54	Passenger's seat heating switch	centre console	24-1	
S56	Passenger's seat adjustment switch	RH front seat		
S58	Driver's seat belt buckle switch	in LH front seat belt buckle		
S75	Blower switch	centre of dash	22-3	
S76	Rear window heating switch	centre console		
S126y	Driver's door power window switch	centre console near gear lever		
S127y	Passenger's door power window switch	centre console near gear lever		
S143	Switch for electrically operated convertible soft top	centre console		
S164	Convertible soft top deadpoint microswitch	on convertible soft top linkage	18-3	
S198	Thermal switch, heated jets	on front LH wheel well	13-1	
S220	Air conditioning/recirculated air operating unit	centre console	01-3	
S221	Evaporator controller	RH side of LH footwell	22-2	



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
S232	Compressor main switch	tyre inflation system		
S408	Side light switch	near interior rear view mirror	29-2	
S531	Temperature selection switch	centre of dash	22-3	
S825	Front lid microswitch	near front LH headlight	30-1	
S826	Luggage compartment light switch	underside of rear lid		
S910	Driver's seat end position switch	in driver's backrest	43-3	
S911	Passenger's seat end position switch	in passenger's backrest	43-3	
S8503	Program switch	centre console	23-1	
S8507	Kick-down switch	behind accelerator pedal	20-3	
S8511	Reversing light switch	LH side of transmission	15-2	
T6151	Ignition coil 1	RH side of engine compartment		
T6152	Ignition coil 2	RH side of engine compartment		
T6153	Ignition coil 3	RH side of engine compartment		
T6154	Ignition coil 4	RH side of engine compartment		
T6155	Ignition coil 5	RH side of engine compartment		
T6156	Ignition coil 6	RH side of engine compartment		
V5	Antitheft (DWA) LED	centre console	24-1	
V7	ASC diode	power distribution box rear LH side of engine compartment		
V9	Decoupling diode lighting	in front power distributor		
X0	B+ terminal point	rear LH side of engine compartment in power distribution box	02-1	
X2	B+ terminal point	power distribution box rear LH side of engine compartment		
X11	(42 pins, black)	behind glove compartment	39-1	09-4



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X16	.. (26 pins, natural)	LH side of dash rear of instrument cluster, A2w	21-2	00-3
X17	.. (26 pins, blue)	LH side of dash rear of instrument cluster, A2w	21-2	00-3
X20	.. (25 pins, black)	rear LH side of engine compartment	08-3	04-4
X22	.. (26 pins, blue)	behind glove compartment	00-2	00-3
X29	.. (1 pin, —)	left of steering column		
X31	.. (12 pins, black)	rear LH side of engine compartment		12-2
X32	.. (12 pins, natural)	on steering column	20-2	02-4
X33	.. (12 pins, black)	on steering column	20-2	02-4
X35	(4 pins, black)	RH side of LH footwell	44-1	10-4
X43	.. (9 pins, black)	power distribution box rear LH side of engine compartment		03-4
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)	rear LH side of engine compartment in power distribution box		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
X54	.. (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)	under LH side of dash		03-4



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X69	.. (25 pins, grey)	rear LH side of engine compartment	08-3	04-4
X70	.. (8 pins, black)	rear LH side of engine compartment	08-3	10-6
X72	.. (6 pins, natural)	on steering column	20-2	05-3
X74	.. (50 pins, yellow)	below centre console	23-2	11-3
X78	.. (4 pins, black)	on steering column	21-1	03-1
X82	.. (3 pins, black)	under radiator	14-1	05-5
X85	.. (3 pins, black)	rear LH side of engine compartment	12-3	05-5
X87	.. (3 pins, black)	RH top of radiator	31-1	02-5
X87	(3 pins, black)	RH top of radiator (B32)		02-5
X105	.. (2 pins, grey)	underside of front lid	17-2	
X106	.. (2 pins, grey)	underside of front lid	17-2	
X107	.. (2 pins, grey)	front RH side of engine compartment on washer fluid reservoir	42-1	
X111	.. (2 pins, black)	rear LH side of engine compartment	09-1	
X113	.. (3 pins, grey)	behind RH front wheel	14-3	06-3
X114	.. (3 pins, grey)	behind LH front wheel	13-2	06-3
X118	.. (2 pins, black)	behind LH front wheel	13-2	
X121	.. (2 pins, white)	LH footwell	21-1	
X122	(2 pins, black)	rear LH side of engine compartment	42-3	
X123	.. (2 pins, grey)	front RH side of engine compartment on washer fluid reservoir near front RH headlight	42-1	
X127	.. (4 pins, black)	front RH side of engine compartment	31-2	05-4
X128	.. (3 pins, black)	front LH side of engine compartment	12-2	02-5



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X129	(2 pins, grey)	near front LH headlight	30-2	
X130	(2 pins, grey)	near front LH headlight	30-2	
X131	(2 pins, black)	near front LH headlight	30-2	
X132	(2 pins, black)	on front LH wheel well	13-1	
X133	(2 pins, black)	on front LH wheel well	14-2	
X134	(2 pins, black)	near front RH headlight	30-3	
X135	(2 pins, grey)	near front RH headlight	30-3	
X136	(2 pins, grey)	near front RH headlight	30-3	
X137	(3 pins, black)	front RH side of engine compartment	31-3	02-5
X142	(2 pins, grey)	LH side under rear of vehicle	17-1	
X142	(3 pins, grey)	LH side under rear of vehicle (B28)		06-3
X143	(2 pins, grey)	RH side under rear of vehicle	16-3	
X143	(3 pins, grey)	RH side under rear of vehicle (B28)		06-3
X163	(3 pins, black)	front RH side of engine compartment on washer fluid reservoir	31-2	05-5
X165	Ground	front RH side of engine compartment	04-2	
X166	Ground	front LH side of engine compartment	05-1	
X170	Case Ground	behind LH footwell speaker cover	07-2	
X256	(26 pins, black)	RH A-pillar	19-1	03-5
X257	(26 pins, black)	LH A-pillar	17-3	03-5
X271	(12 pins, black)	LH side of dash rear of instrument cluster, A2w	21-2	01-3
X275	(4 pins, natural)	under LH front seat	26-2	03-1
X275	(4 pins, natural)	under LH front seat (sports seat)	40-3	03-1



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X279	(4 pins, natural)	under RH front seat	25-3	03-1
X279	(4 pins, natural)	under RH front seat (sports seat)	41-2	03-1
X285	(15 pins, blue)	behind glove compartment	00-2	05-1
X295	(8 pins, black)	on steering column	20-2	03-3
X311	(3 pins, black)	in luggage compartment lid	29-1	01-1
X315	(2 pins, black)	in luggage compartment lid	29-1	
X316	(4 pins, white)	centre console near gear lever		07-1
X318	(8 pins, black)	in rear RH side of luggage compartment behind RH rear light assembly	03-1	02-1
X319	(8 pins, black)	in LH side of luggage compartment behind trim	28-2	02-1
X322	(6 pins, black)	footwell, driver's side	20-1	03-6
X324	(4 pins, white)	centre console near gear lever		07-1
X333	(4 pins, natural)	rear of engine compartment below centre of fresh air cowl		11-1
X336	(3 pins, black)	in top of RH A-post		01-1
X351	(3 pins, black)	RH B-pillar	27-1	01-1
X352	(3 pins, black)	LH B-pillar	28-1	01-1
X357	(2 pins, white)	near interior rear view mirror	29-2	
X371	(3 pins, black)	near front LH headlight	30-1	02-5
X379	(1 pin, natural)	Hardtop mount, left		
X380	(1 pin, natural)	Hardtop mount, left		
X383	(2 pins, black)	on differential	16-2	
X389	(2 pins, black)	Front left auxiliary flasher unit		
X390	(2 pins, black)	Front right auxiliary flasher unit		



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X413	(3 pins, black)	Raised brake light		01-1
X423	(1 pins, —)	below centre console on rear of handbrake lever	39-3	
X424	(1 pin, —)	in LH side of luggage compartment behind trim		
X494	Ground	below centre console	07-1	
X503	(12 pins, black)	LH side of dash	21-3	07-2
X504	(4 pins, natural)	LH side of dash	21-3	03-1
X509	(9 pins, black)	power distribution box rear LH side of engine compartment		03-4
X510	(9 pins, black)	power distribution box rear LH side of engine compartment		03-4
X511	(8 pins, black)	centre console	23-1	02-1
X514	(4 pins, black)	centre console	24-1	07-1
X516	(5 pins, black)	centre console		02-6
X521	(6 pins, blue)	centre console		04-5
X522	(3 pins, natural)	on RH side of LH footwell		04-3
X531	(1 pin, natural)	centre console	23-3	
X532	(2 pins, black)	centre console	23-3	
X537	(3 pins, black)	Rear left mid-range speaker	40-1	01-1
X538	(3 pins, black)	Rear right mid-range speaker	43-2	01-1
X539	(2 pins, black)	centre console	29-3	
X544	(2 pins, natural)	footwell, driver's side		
X605	(12 pins, black)	in LH side of luggage compartment behind trim	28-3	01-5
X606	(26 pins, black)	in LH side of luggage compartment behind trim	28-3	00-3
X623	(4 pins, black)	in driver's door	18-2	07-1



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X624	(4 pins, black)	in passenger's door	19-3	07-1
X625	(6 pins, black)	in driver's door	18-2	08-2
X641	(6 pins, black)	in passenger's door	19-2	07-4
X651	(6 pins, yellow)	centre console	24-1	04-5
X658	(6 pins, yellow)	centre console	24-1	04-5
X660	(6 pins, black)	LH front door behind door trim panel		07-4
X693	(1 pin, natural)	tyre inflation system		
X700	(1 pin, —)	behind RH footwell speaker cover	24-3	
X701	(1 pin, —)	behind LH footwell speaker trim cover		
X709	(2 pins, black)	underside of rear lid, near number plate		
X710	(2 pins, black)	underside of rear lid, near number plate		
X711	(2 pins, black)	in luggage compartment lid	29-1	
X712	(1 pin, black)	in luggage compartment		
X713	(2 pins, black)	RH side under rear of vehicle	16-3	
X726	(2 pins, natural)	under LH front seat	26-1	
X726	(2 pins, natural)	under LH front seat (sports seat)	40-3	
X728	(2 pins, black)	under LH front seat	26-1	
X728	(2 pins, black)	under LH front seat (sports seat)	40-3	
X733	(4 pins, black)	under LH front seat	26-2	03-1
X733	(4 pins, black)	under LH front seat (sports seat)	40-3	03-1
X734	(2 pins, natural)	under RH front seat	25-2	
X734	(2 pins, natural)	under RH front seat (sports seat)	41-1	



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X737	(2 pins, black)	under RH front seat	25-2	
X737	(2 pins, black)	under RH front seat (sports seat)	41-2	
X740	(4 pins, black)	under RH front seat	25-3	03-1
X740	(4 pins, black)	under RH front seat (sports seat)	41-2	03-1
X742	(2 pins, yellow)	in passenger's door		
X744	(4 pins, grey)	in passenger's door	19-3	05-4
X746	(3 pins, yellow)	in passenger's door	19-3	01-1
X747	(2 pins, yellow)	in driver's door	18-1	
X749	(4 pins, grey)	in driver's door	18-2	05-4
X753	(3 pins, yellow)	in driver's door	18-2	01-1
X766	(2 pins, black)	on front LH wheel well		
X767	(2 pins, black)	wheel well, front right		
X768	(2 pins, black)	on front LH wheel well	13-1	
X769	(2 pins, black)	wheel well, front right	14-2	
X770	(2 pins, black)	RH rear wheel well (B32)	43-2	
X770	(2 pins, yellow)	wheel well, front right (B28)	35-2	
X770	(2 pins, yellow)	on front LH wheel well (4-cylinder)	13-1	
X771	(2 pins, natural)	RH side of LH footwell	22-2	
X778	(4 pins, black)	under LH front seat		07-1
X778	(4 pins, black)	under LH front seat (sports seat)	40-2	07-1
X782	(3 pins, orange)	behind glove compartment top	00-3	07-5
X783	(3 pins, black)	underside of steering column	25-1	07-5



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X816	(2 pins, natural)	RH side of LH footwell	22-1	
X898	(8 pins, black)	under rear oddments compartment	27-2	08-3
X904	(4 pins, black)	RH side of LH footwell (with HR)	22-1	03-1
X904	(6 pins, black)	on engine bulkhead (with IHKS)		04-6
X905	(7 pins, black)	centre of dash	22-3	09-3
X1013	(2 pins, natural)	footwell, driver's side		
X1014	(1 pin, —)	centre console	23-3	
X1034	(3 pins, black)	near front LH headlight	30-2	08-1
X1035	(3 pins, black)	near front RH headlight	30-3	08-1
X1098	(3 pins, black)	LH side of dash	21-3	01-1
X1116	Ground	in LH side of luggage compartment	06-3	
X1143	(10 pins, black)	footwell, driver's side		02-3
X1148	(2 pins, black)	on front LH wheel well, ABS	13-1	
X1148	(2 pins, black)	wheel well, front right, ASC		
X1155	(2 pins, black)	centre console	24-2	
X1161	(9 pins, black)	power distribution box rear LH side of engine compartment		03-4
X1166	Ground	behind glove compartment	04-3	
X1171	(55 pins, natural)	RH side of LH footwell	00-3	11-2
X1175	(42 pins, black)	behind glove compartment	00-1	09-4
X1176	(25 pins, black)	rear LH side of engine compartment	35-3	04-4
X1178	(2 pins, white)	centre console		
X1193	(3 pins, black)	centre console	23-1	01-1



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X1213	(2 pins, black)	centre console		
X1222	(6 pins, natural)	in LH side of luggage compartment behind trim	28-2	03-6
X1255	(4 pins, black)	tyre inflation system		10-4
X1265	(1 pin, natural)	hardtop		
X1266	(1 pin, natural)	hardtop		
X1380	(1 pin, —)	behind RH footwell speaker cover	24-3	
X1381	(1 pin, —)	behind LH footwell speaker trim cover		
X1439	(2 pins, black)	centre console		
X1441	Ground	below centre console	07-3	
X1517	(6 pins, black)	RH side of LH footwell	22-2	09-2
X1529	(1 pin, —)	power distribution box rear LH side of engine compartment		
X1530	(1 pin, natural)	power distribution box rear LH side of engine compartment		
X1582	(4 pins, black)	behind LH footwell trim	44-3	07-1
X1588	(2 pins, black)	under LH side of dash	20-1	
X1602	(9 pins, black)	under LH side of dash		03-4
X1659	(15 pins, yellow)	behind glove compartment	00-1	05-1
X1715	(6 pins, black)	in rear LH side of glove compartment	28-3	04-5
X1764	(3 pins, black)	on steering column		01-1
X1883	(2 pins, yellow)	LH front door	41-3	
X1884	(2 pins, yellow)	RH front door	38-2	
X1885	(3 pins, black)	under LH front seat	38-3	13-1
X1886	(3 pins, black)	under RH front seat	38-1	13-1



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X1890	(3 pins, black)	vehicle front, behind grille		05-5
X3158	(1 pin, natural)	tyre inflation system		
X5115	(2 pins, black)	centre console	29-3	
X5210	(3 pins, black)	front of engine	36-2	10-2
X5220	(3 pins, black)	front of engine		10-2
X6000	(88 pins, natural)	rear RH side of engine compartment in electronics box	01-1	00-1
X6002	(20 pins, black)	rear RH side of engine compartment		04-1
X6091	(30 pins, black)	rear of engine compartment on engine bulkhead	11-1	01-2
X6101	(2 pins, black)	centre top of engine		
X6102	(2 pins, black)	centre top of engine		
X6103	(2 pins, black)	centre top of engine		
X6104	(2 pins, black)	centre top of engine		
X6105	(2 pins, black)	centre top of engine		
X6106	(2 pins, black)	centre top of engine		
X6120	(2 pins, black)	LH side of engine compartment (4-cylinder)	08-2	
X6120	(2 pins, black)	LH side of engine compartment (B28)	35-1	
X6120	(2 pins, black)	LH side of engine compartment (B32)	37-3	
X6130	(3 pins, black)	front of engine (4-cylinder)	11-3	10-2
X6130	(3 pins, black)	front of engine (B28)		10-2
X6130	(3 pins, black)	LH side of engine compartment (B32)	37-2	
X6131	(2 pins, black)	front LH side of engine compartment	10-1	
X6133	(2 pins, black)	RH side under front of vehicle		



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X6150	(7 pins, black)	rear RH side of engine compartment (4-cylinder)		04-2
X6150	(10 pins, black)	rear RH side of engine compartment (B28)	34-1	10-1
X6151	(3 pins, grey)	RH top of engine		09-5
X6152	(3 pins, grey)	RH top of engine	11-3	09-5
X6153	(3 pins, grey)	RH top of engine		09-5
X6154	(3 pins, grey)	RH top of engine		09-5
X6155	(3 pins, grey)	RH top of engine		09-5
X6156	(3 pins, grey)	RH top of engine		09-5
X6164	(2 pins, black)	below intake manifold	36-1	
X6200	(4 pins, black)	under centre of car (B18)	15-1	06-1
X6203	(3 pins, black)	front of engine below intake manifold		10-2
X6203	(3 pins, black)	front of engine below intake manifold (B28)	33-1	10-2
X6204	(3 pins, black)	front of engine below intake manifold		10-2
X6204	(3 pins, black)	front of engine below intake manifold (B28)	33-1	10-2
X6205	(2 pins, black)	front LH side of engine compartment (4-cylinder)	12-2	
X6205	(2 pins, black)	LH side of engine compartment (B28)	34-2	
X6205	(2 pins, black)	LH side of engine compartment (B32)	37-3	
X6207	(4 pins, black)	front of engine	33-3	10-4
X6209	(3 pins, black)	front of engine Hall sensor, camshaft		10-2
X6210	(4 pins, black)	under centre of car		06-1
X6217	(4 pins, grey)	front LH side of engine compartment	10-1	03-2
X6231	(2 pins, black)	front LH side of engine compartment (4-cylinder)	11-2	



Z3

Component location chart

Comp.	Description	Location	7100.0	8500.0
X6231	(2 pins, black)	front LH side of engine compartment (B28)		
X6231	(2 pins, brown)	LH side of engine (B32)	36-1	
X6232	(4 pins, black)	front LH side of engine compartment	11-2	06-1
X6233	(7 pins, black)	LH side of engine compartment		04-2
X6238	(2 pins, black)	RH side of oil filter	36-1	
X6240	(4 pins, black)	LH side of engine compartment (4-cylinder)	02-2	06-1
X6240	(4 pins, black)	LH side of engine compartment (B28)	33-1	06-1
X6241	(3 pins, black)	LH top of engine		12-1
X6242	(3 pins, black)	LH top of engine	36-1	10-2
X6243	(3 pins, black)	LH top of engine		12-1
X6252	(3 pins, black)	LH side of engine compartment (B32)	36-2	
X6252	(3 pins, black)	front of engine (4-cylinder)	11-3	10-2
X6252	(3 pins, black)	LH side of engine compartment (B28)	33-3	10-2
X6254	(3 pins, black)	rear LH side of engine compartment		10-2
X6256	(4 pins, black)	rear of engine compartment		10-3
X6256	(4 pins, black)	LH side of engine compartment (B32)	37-2	10-3
X6275	(2 pins, black)	centre top of engine	34-3	10-2
X6277	(3 pins, black)	front of engine	36-2	10-2
X6278	(3 pins, black)	front of engine		10-2
X6300	(9 pins, black)	rear RH side of engine compartment in electronics box		03-4
X6301	(9 pins, black)	under LH side of dash		03-4
X6303	(9 pins, black)	rear RH side of engine compartment in electronics box		03-4



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X6309	(10 pins, black)	rear RH side of engine compartment in electronics box		10-5
X6315	(10 pins, black)	rear RH side of engine compartment in electronics box		10-5
X6326	(9 pins, black)	rear RH side of engine compartment in electronics box		03-4
X6394	(9 pins, black)	tyre inflation system		03-4
X6430	Cable shoe B+ external start terminal point .	rear RH side of engine compartment		
X6431	Cable shoe B+ external start terminal point .	rear RH side of engine compartment		
X6432	Cable shoe B+ external start terminal point .	rear RH side of engine compartment		
X6454	Ground	rear RH side of engine compartment (4-cylinder)	04-1	
X6454	Ground	rear RH side of engine compartment (6-cylinder)	04-2	
X6456	Ground	rear RH side of engine compartment (4-cylinder)	04-1	
X6456	Ground	on cylinder head (6-cylinder)	06-1	
X6500	(6 pins, black)	under rear oddments compartment	27-2	06-5
X6506	(2 pins, black)	rear RH side of engine compartment in electronics box	08-1	
X6509	Cable shoe, alternator B+	front LH side of engine compartment	02-3	
X6510	Cable shoe, starter terminal 50	rear LH side of engine compartment on starter	02-2	
X6511	Cable shoe, starter terminal 30h	rear LH side of engine compartment on starter		
X6512	Cable shoe, starter terminal 30	rear LH side of engine compartment on starter	02-2	
X6524	(3 pins, black)	front of engine compartment		10-2
X7509	Cable shoe, alternator D+	front LH side of engine compartment	02-3	
X8500	(88 pins, natural)	rear RH side of engine compartment in electronics box		00-1
X8507	(1 pin, black)	behind accelerator pedal	20-3	
X8511	(2 pins, black)	LH side of transmission	15-2	



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X8514	(10 pins, natural)	centre console	23-1	02-3
X8516	(2 pins, black)	LH side of transmission		
X8521	(16 pins, black)	on RH side of transmission	16-1	09-1
X9001	(2 pins, black)	centre console	24-2	
X9002	(2 pins, black)	centre console	24-2	
X9003	(2 pins, black)	centre console		
X9633	Ground	behind LH footwell speaker cover	07-2	
X9770	(4 pins, natural)	centre console	24-2	12-3
X9990	(3 pins, black)	under driver's seat		12-6
X9991	(10 pins, black)	under driver's seat	40-2	12-5
X9994	(3 pins, black)	under passenger's seat		12-6
X9995	(10 pins, black)	under passenger's seat	41-1	12-5
X9997	(2 pins, orange)	behind steering wheel		
X10010	Ground	behind glove compartment	04-3	
X10013	(2 pins, natural)	behind steering wheel		
X10051	(4 pins, natural)	LH side of dash		03-1
X10054	(8 pins, black)	RH side of LH footwell	22-1	02-1
X10059	(3 pins, black)	centre console	24-2	12-4
X10088	(2 pins, black)	front RH side of engine compartment	31-3	
X10094	(2 pins, black)	LH side of engine compartment	35-3	
X10098	(1 pin, natural)	power distribution box rear LH side of engine compartment		
X10099	(1 pin, —)	power distribution box rear LH side of engine compartment		



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X10182	(18 pins, black)	behind glove compartment		08-4
X10214	(3 pins, orange)	under LH front seat	40-2	01-4
X10215	(3 pins, orange)	under RH front seat	41-1	01-4
X10216	(3 pins, black)	under LH front seat	39-2	07-5
X10217	(3 pins, black)	under RH front seat	39-2	07-5
X10218	(3 pins, natural)	under RH front seat	25-3	01-1
X10218	(3 pins, natural)	under RH front seat (sports seat)	41-2	01-1
X10239	(3 pins, black)	front of engine	33-3	10-2
X10241	(3 pins, black)	front RH side of engine compartment		05-5
X10245	(12 pins, black)	centre console	01-3	01-3
X10246	(12 pins, black)	in rear left speaker box	27-3	01-3
X10260	(3 pins, natural)	near steering column	01-2	01-1
X10263	(6 pin, black)	centre console		04-5
X10299	(3 pins, black)	Hardtop mount, left	18-3	05-2
X10353	(25 pins, black)	LH side of engine compartment		13-2
X11104	(1 pin, —)	near interior rear view mirror	29-2	
X11105	(1 pin, —)	near interior rear view mirror	29-2	
X11106	(1 pin, —)	near interior rear view mirror	29-2	
X11209	(3 pins, black)	Hardtop mount, left	18-3	05-2
X11272	(9 pins, black)	rear LH side of engine compartment in power distribution box		03-4
X11287	Connections soldered up	centre of dash		
X11379	(3 pins, black)	RH top of radiator		02-5



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X13004	Ground	behind glove compartment	04-3	
X13006	Ground	in LH side of luggage compartment	05-3	
X13016	Ground	in LH side of luggage compartment	05-2	
X13017	(2 pins, blue)	hardtop		
X13032	Ground	under rear oddments compartment	06-2	
X13045	(6 pins, natural)	centre console		04-5
X13139	(10 pins, black)	near interior rear view mirror		02-3
X13146	(8 pins, black)	in LH side of luggage compartment	26-3	02-1
X13233	(1 pin, black)	centre of dash rear of centre console		
X13252	(15 pins, black)	behind glove compartment	44-2	05-1
X13253	(26 pins, yellow)	behind glove compartment	44-2	00-3
X13254	(26 pins, green)	behind glove compartment	44-2	00-3
X13287	(1 pin, white)	centre of dash rear of centre console		
X13307	(2 pins, black)	centre console		07-1
X18080	(1 pin, black)	in LH side of luggage compartment		
X18126	(17 pins, black)	centre console behind radio		02-2
X18170	Ground	below centre console	07-1	
X18180	(3 pins, natural)	in rear RH side of luggage compartment	28-3	05-2
X18190	(3 pins, black)	in driver's door	18-2	01-1
X18196	(10 pins, black)	LH A-pillar	17-3	02-3
X18198	(10 pins, black)	RH A-pillar	19-1	02-3
X18279	(2 pins, grey)	in driver's door		



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X18280	(2 pins, grey)	in passenger's door		
X18333	(2 pins, black)	on instrument cluster		
X18349	(8 pins, black)	centre console	01-3	08-3
X18350	(6 pins, black)	RH side of LH footwell	22-2	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
X18516	(3 pins, black)	in passenger's door	19-3	01-1
X18520	(10 pins, black)	centre console Radio		02-3
X18521	(10 pins, black)	RH side of luggage compartment CD changer	28-3	02-3
X18774	(4 pins, natural)	in rear speaker box	27-3	03-1
X18983	(2 pins, black)	centre of dash		
X18984	(2 pins, black)	centre of dash	22-3	
X19008	(3 pins, blue)	below centre console		01-4
X19009	(3 pins, black)	below centre console		01-4
X19022	(3 pins, black)	vehicle front, behind grille		05-5
X19245	(8 pins, black)	centre console	24-2	02-1
X19562	(4 pins, natural)	rear LH side of engine compartment	09-1	05-4
X23164	(2 pins, black)	in LH side of luggage compartment	26-3	
X62001	(4 pins, black)	under centre of car (B19)	15-3	06-1
X62101	(4 pins, black)	in engine compartment on RH side of engine bulkhead	42-2	10-3
X62201	(4 pins, black)	in engine compartment on RH side of engine bulkhead	42-2	10-3
X90260	(3 pins, black)	near steering column	01-2	01-1



Component location chart

Z3

Comp.	Description	Location	7100.0	8500.0
X91009	(2 pins, black)	under RH front seat	41-2	
Y1	ABS hydraulic unit	rear LH side of engine compartment (4-cylinder)	08-2	
Y1	ABS hydraulic unit	rear LH side of engine compartment (B28)	35-3	
Y1	ABS hydraulic unit	rear LH side of engine compartment (B32)		
Y2	Solenoid clutch	front RH side of engine compartment		
Y4z	Water valve	rear LH side of engine compartment	12-3	
Y5	Left outside mirror	in top of LH front door		
Y6	Right outside mirror	in top of RH front door		
Y19	Shift lock selector lever lock	centre console		
Y5210	VANOS valve 1 and 2 (inlet)	front of engine	36-2	
Y5220	VANOS valve 1 and 2 (exhaust)	front of engine		
Y6101	Fuel injector 1	on cylinder head		
Y6102	Fuel injector 2	on cylinder head		
Y6103	Fuel injector 3	on cylinder head		
Y6104	Fuel injector 4	on cylinder head		
Y6105	Fuel injector 5	on cylinder head		
Y6106	Fuel injector 6	on cylinder head		
Y6120	Charcoal filter valve	LH side of engine compartment (B32)	37-3	
Y6120	Charcoal filter valve	LH side of engine compartment (4-cylinder)	08-2	
Y6120	Charcoal filter valve	LH side of engine compartment (B28)	35-1	
Y6130	Idle actuator	front of engine (4-cylinder)	11-3	
Y6130	Idle actuator	front of engine (B28)		



Z3

Component location chart

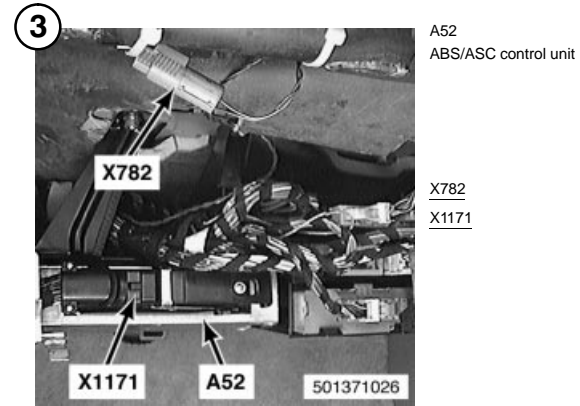
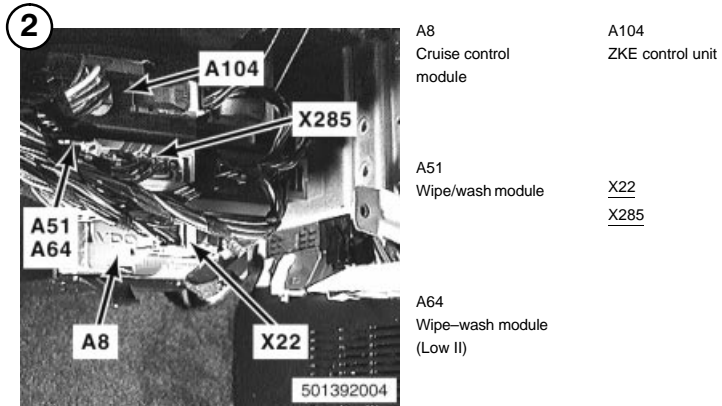
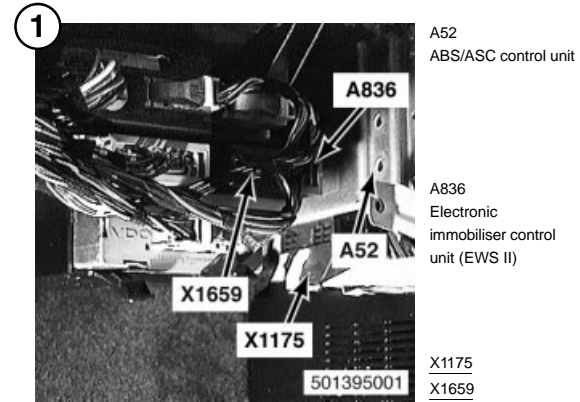
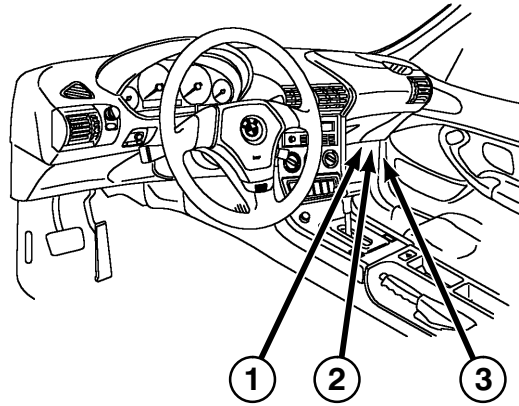
Comp.	Description	Location	7100.0	8500.0
Y6130	Idle actuator	LH side of engine (B32)	37-2	
Y6131	Changeover valve I	front of engine	10-1	
Y6133	Air pump	RH side under front of vehicle		
Y6164	Valve for secondary air pump	below intake manifold	36-1	
Y6275	VANOS valve 1	on cylinder head	34-3	
Y8505y	Gearshift unit	on RH side of transmission	16-1	
Y8521	Gearshift unit	on RH side of transmission	16-1	



7100.0 Component location views

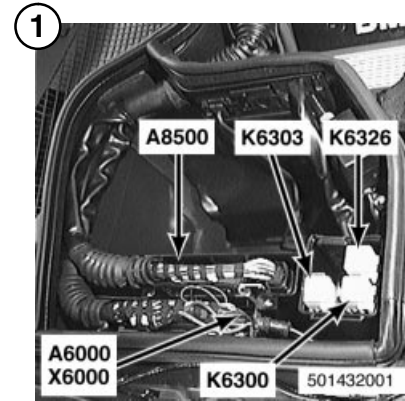
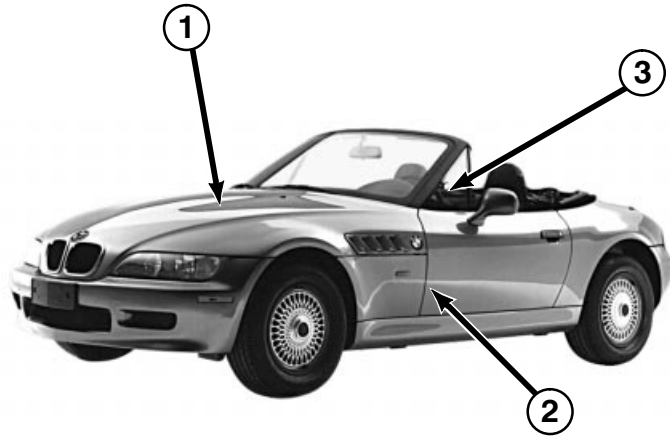
Location of control units

Z3

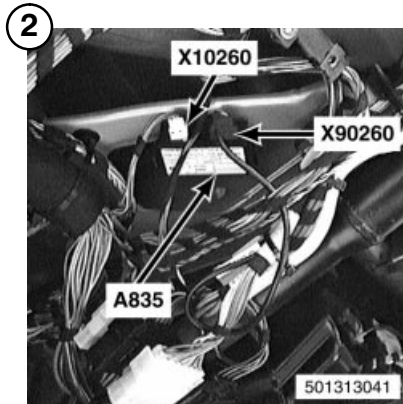


Component location views

Location of control units

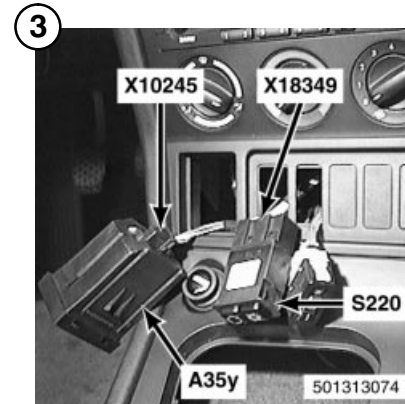


A6000 DME control unit	K6303 Oxygen sensor relay
A8500 EGS control unit	K6326 Unloader relay, terminal 15
K6300 DME relay	X6000



A835
Transmit/receive module (EWS II)

X10260
X90260



A35y
On-board computer (BC – Low)

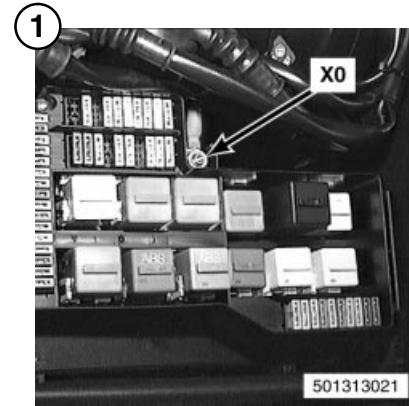
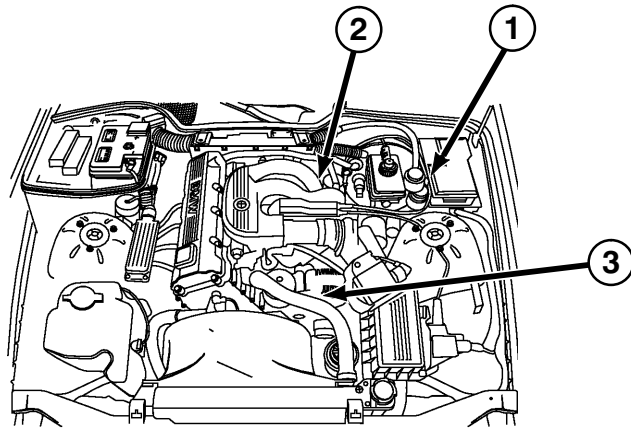
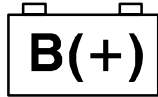
S220
Air conditioning/re-circulated air operating unit

X10245
X18349

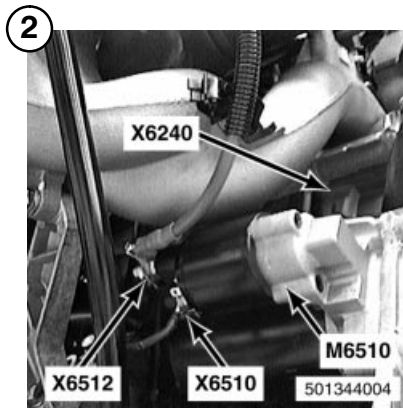


Component location views

Z3

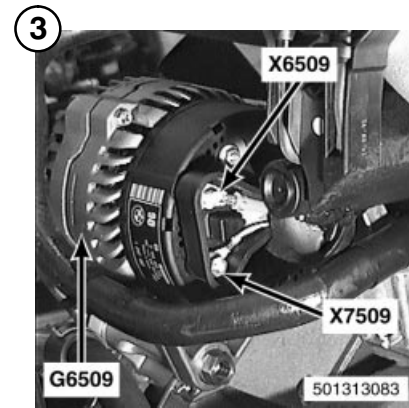


X0
B+ terminal point



M6510
Starter

- X6240
- X6510
- X6512



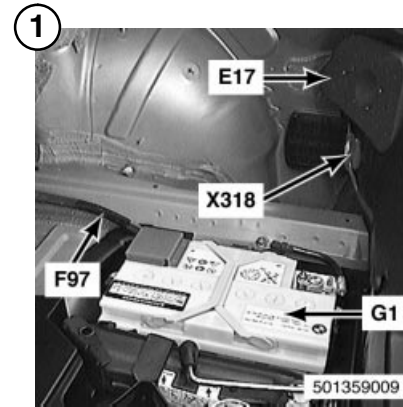
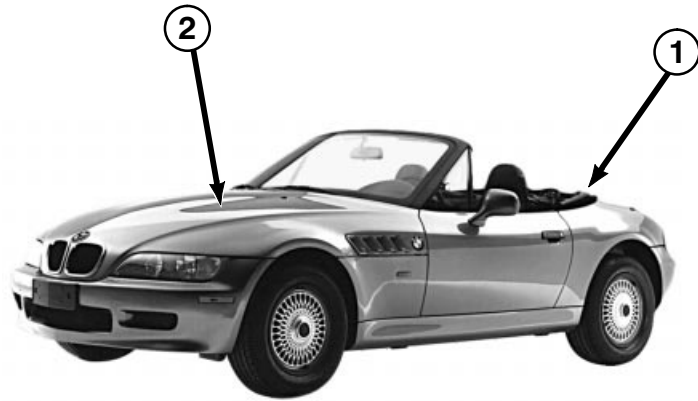
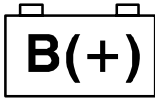
G6509
Alternator

- X6509
- X7509



Component location views

Z3



E17
Right tail light

F97
Fuse link

G1
Battery

X318

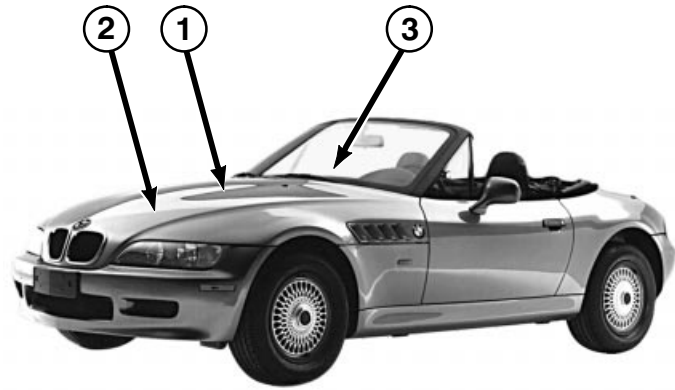
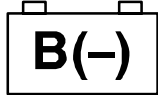


G6430
B+ external start terminal point



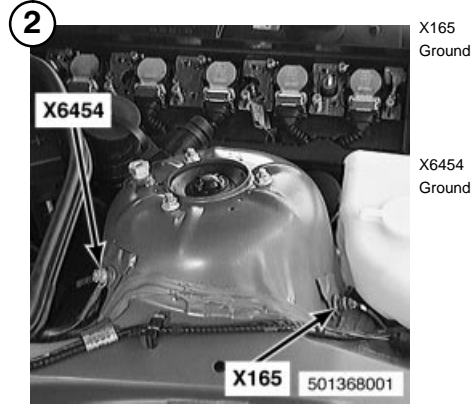
Component location views

Z3



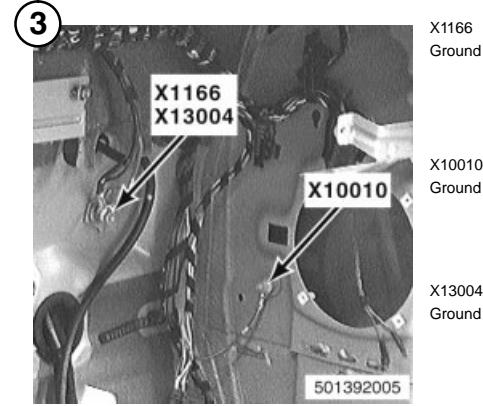
X6454
Ground

X6456
Ground



X165
Ground

X6454
Ground



X1166
Ground

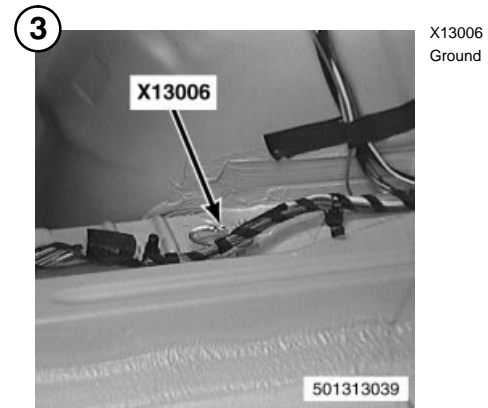
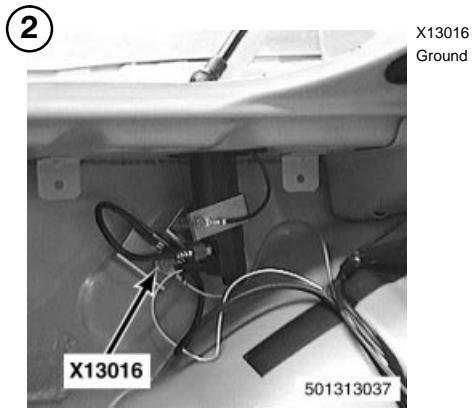
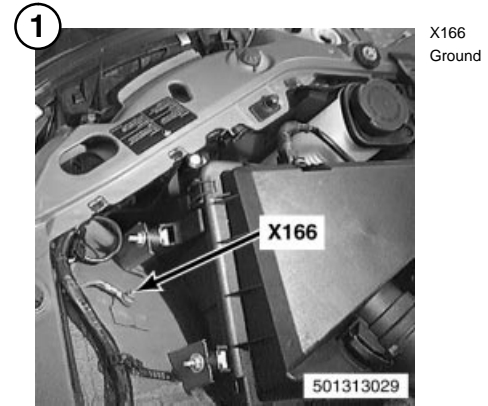
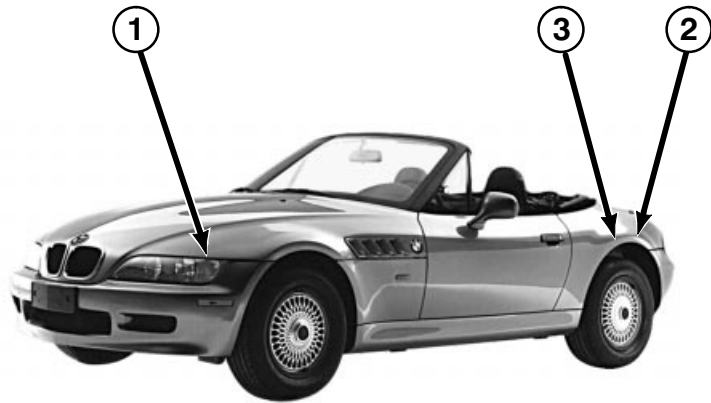
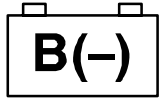
X10010
Ground

X13004
Ground



Component location views

Z3

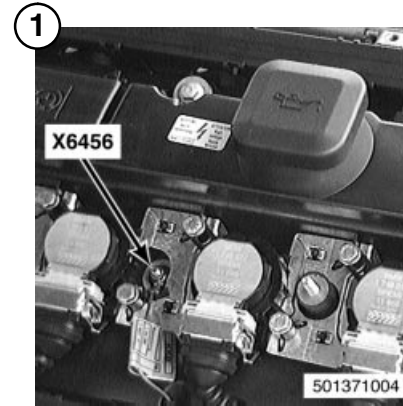
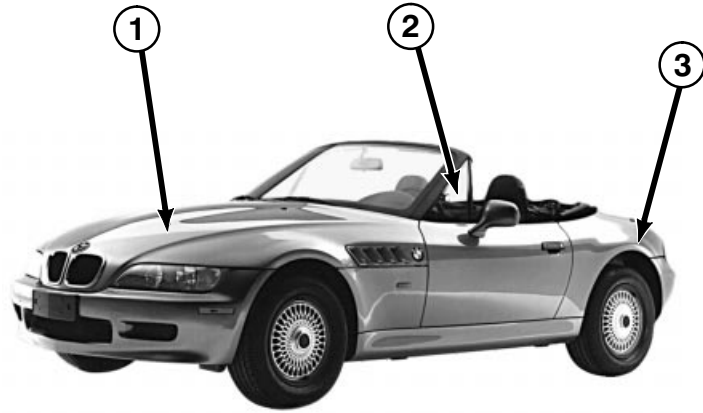
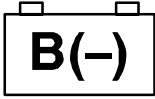




3

Z3

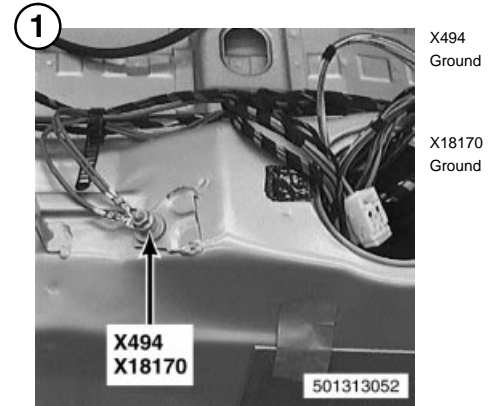
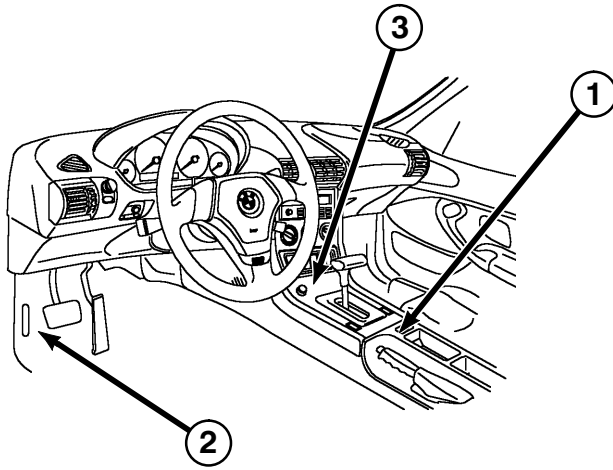
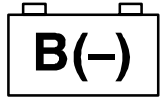
Component location views





Component location views

Z3

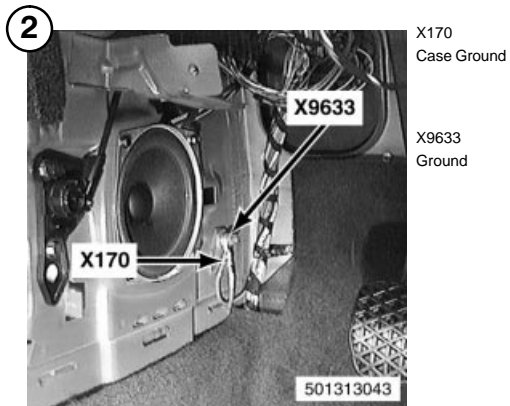


X494
Ground

X18170
Ground

X494
X18170

501313052



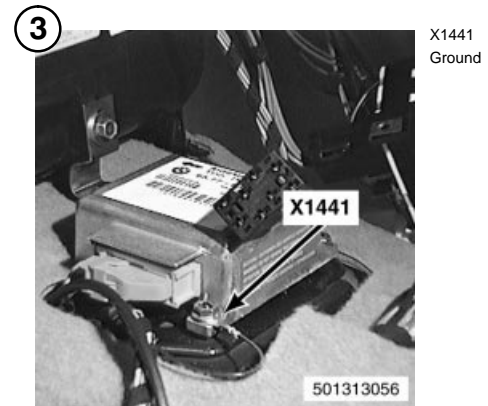
X170
Case Ground

X9633
Ground

X170

X9633

501313043

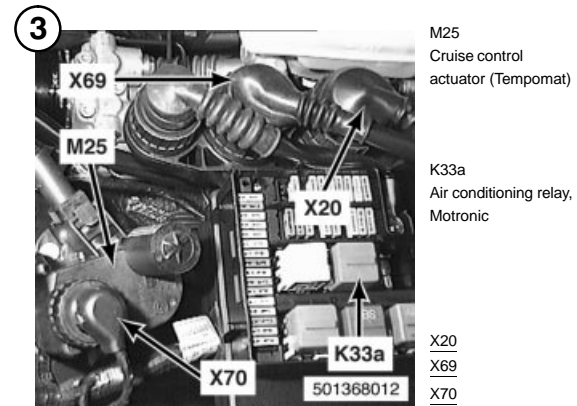
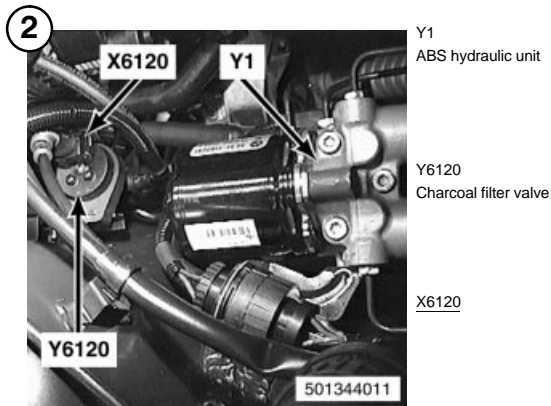
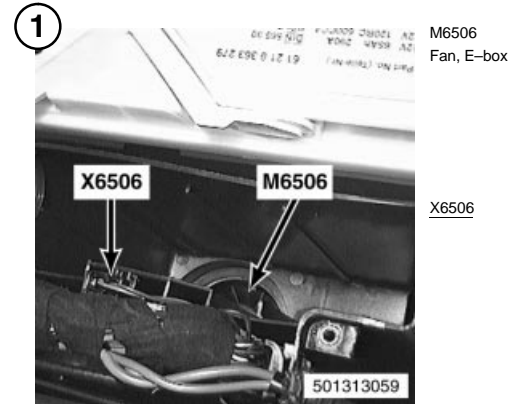
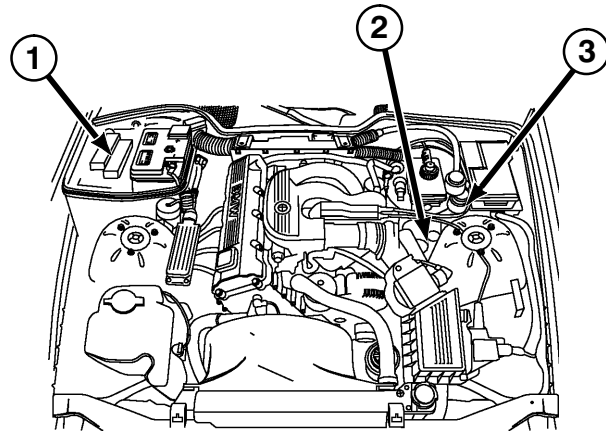


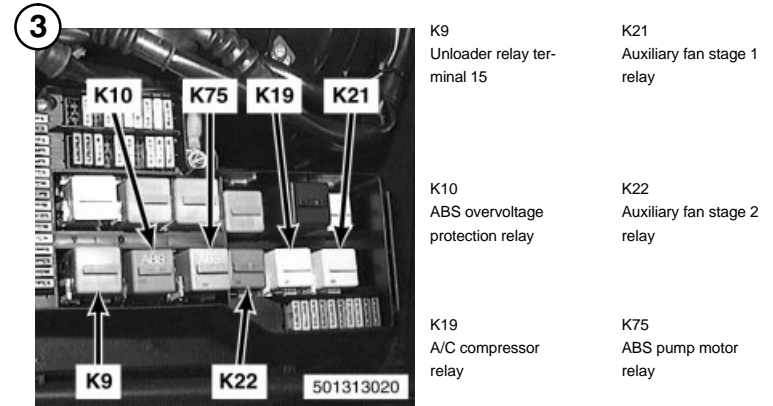
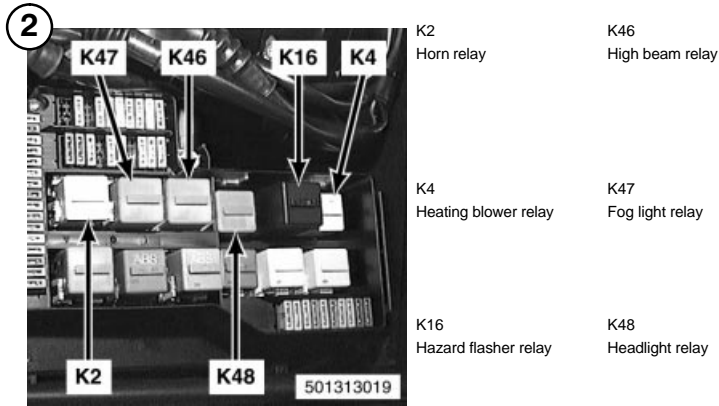
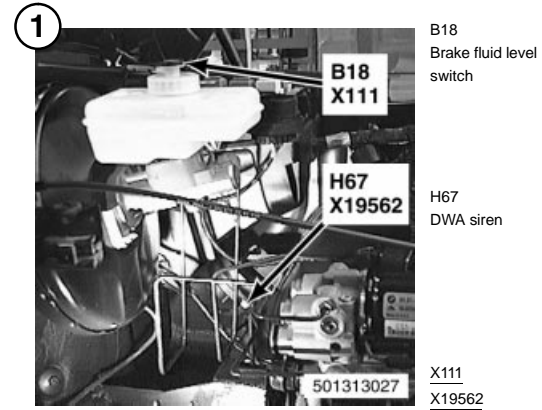
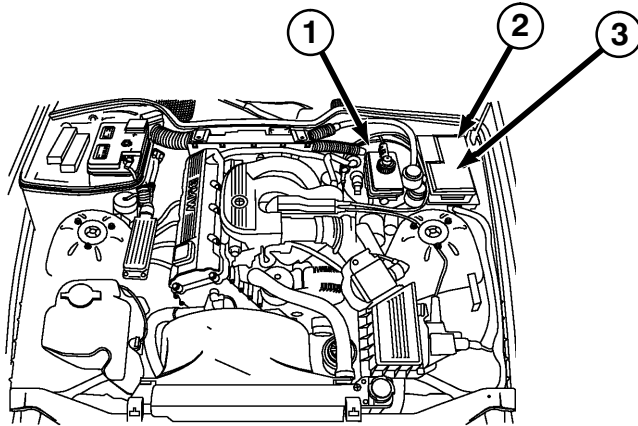
X1441
Ground

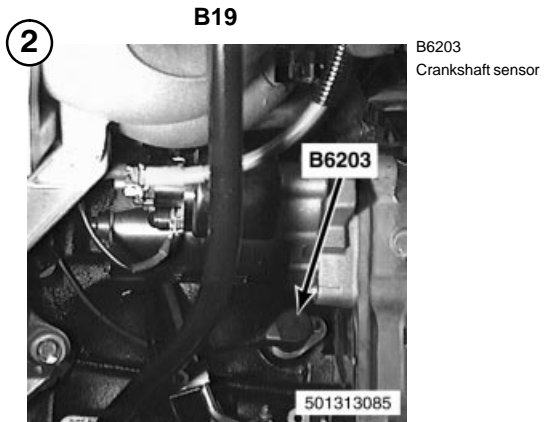
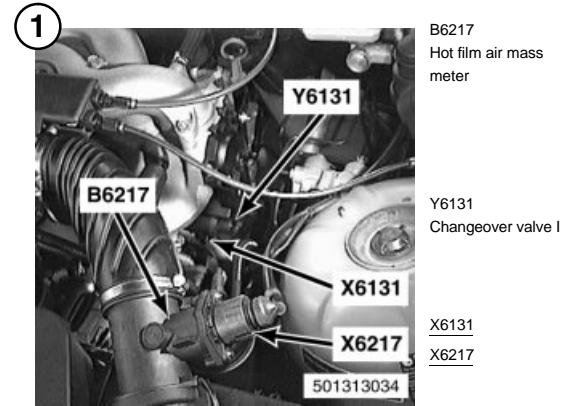
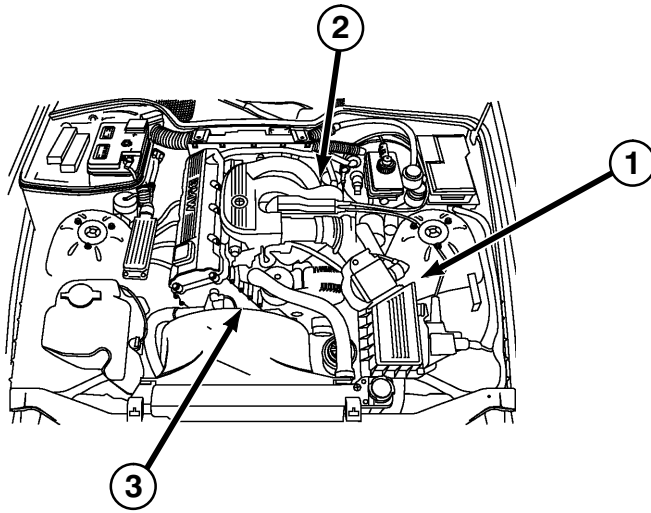
X1441

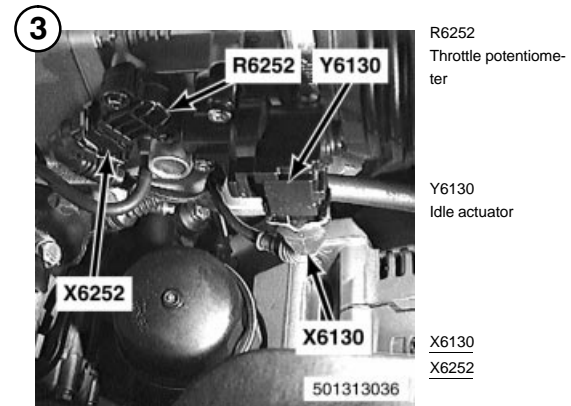
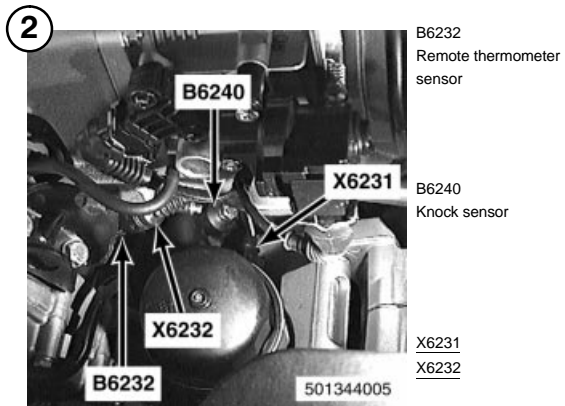
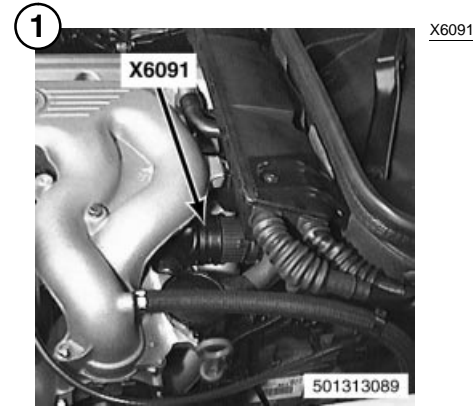
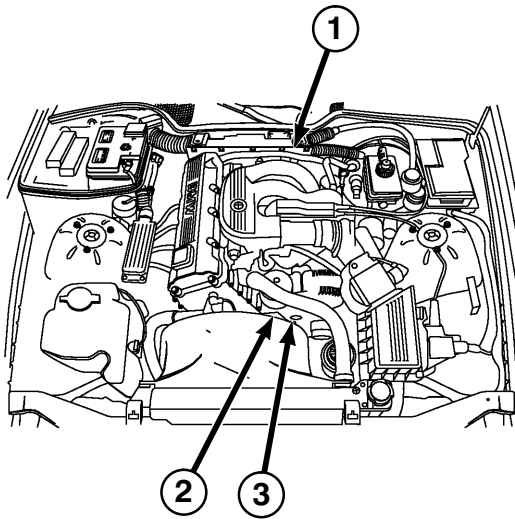
501313056

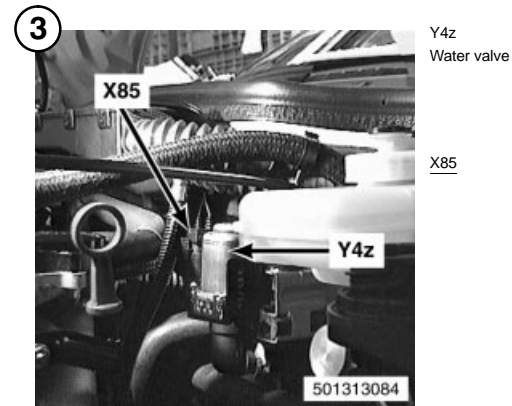
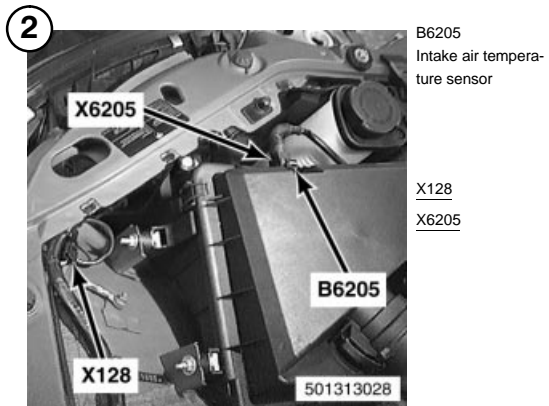
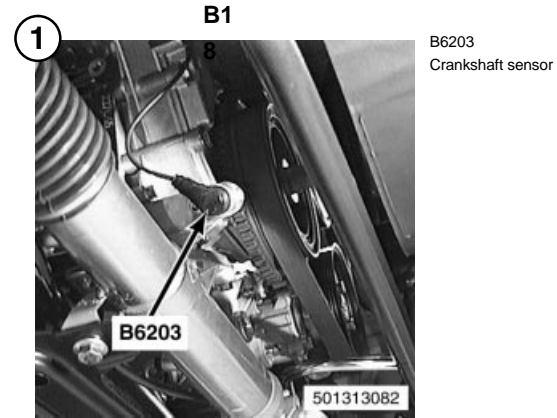
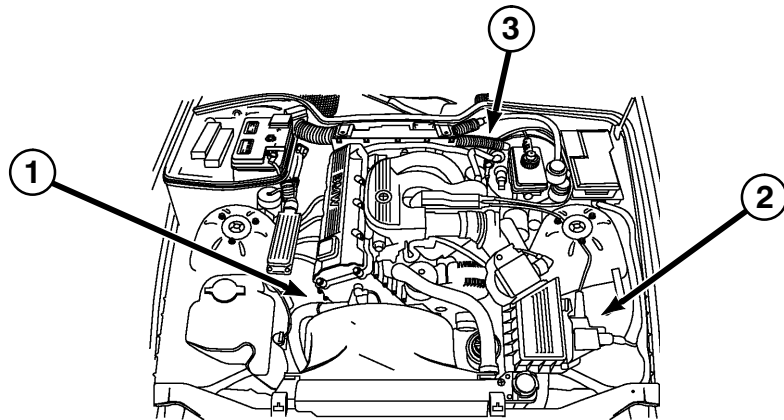
Component location views

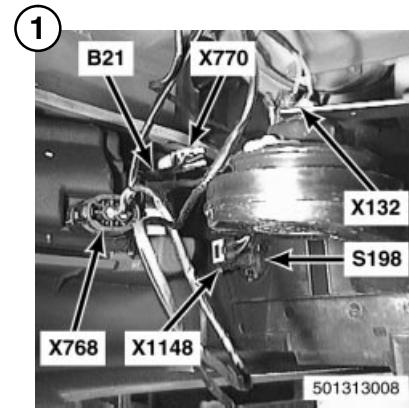
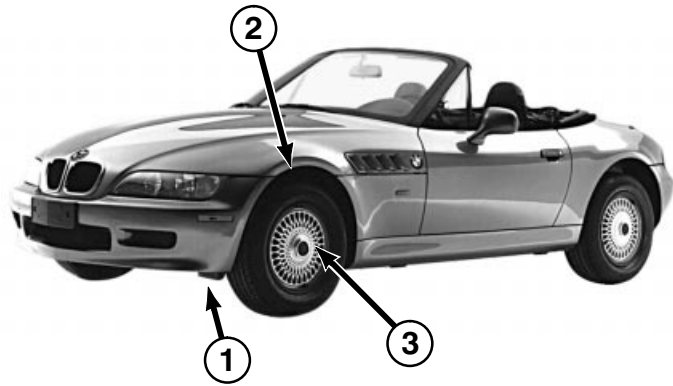








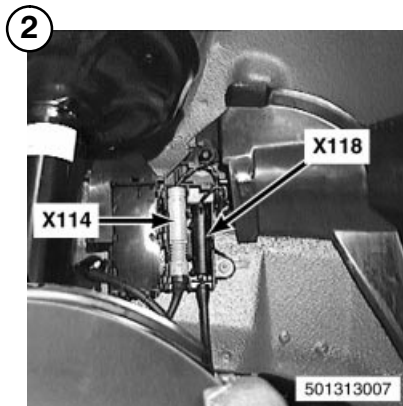




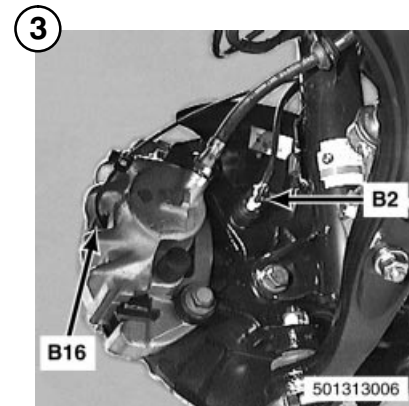
B21
On-board computer
temperature sensor

S198
Thermal switch,
heated jets

X132
X768
X770
X1148

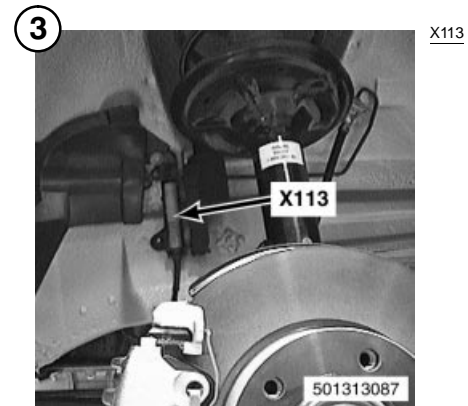
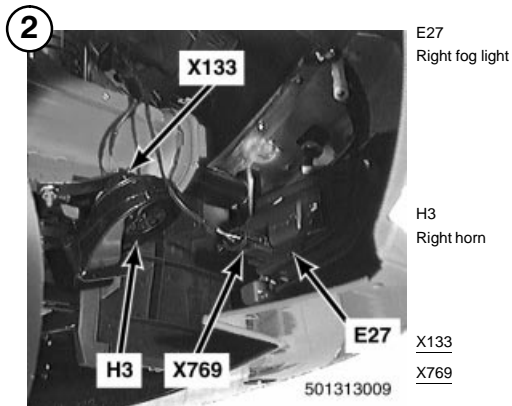
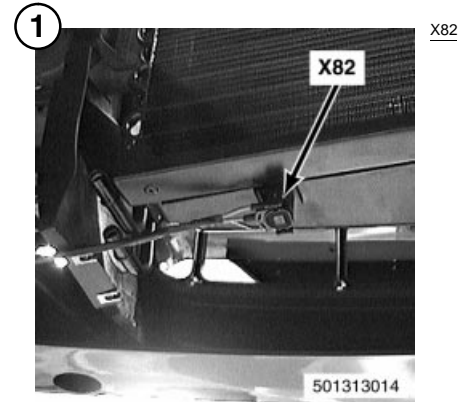
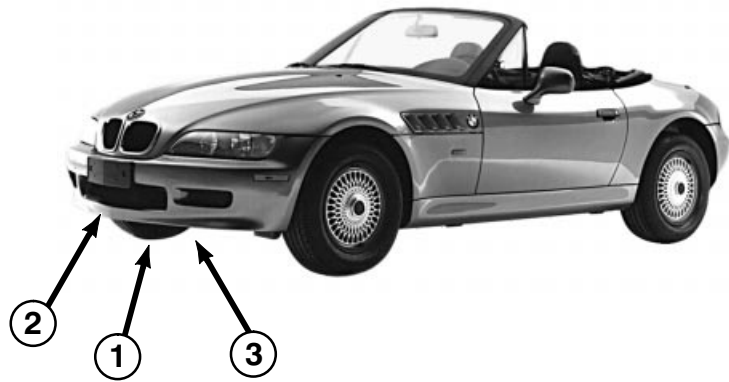


X114
X118



B2
Front left ABS sensor

B16
Front left brake pad
sensor

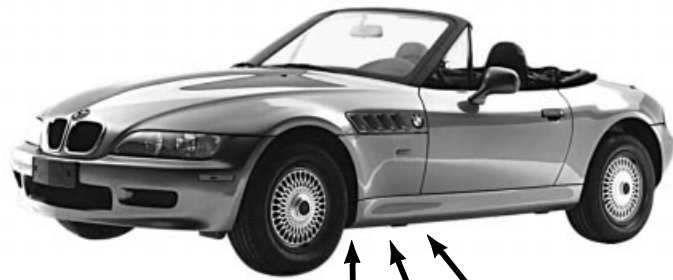




3

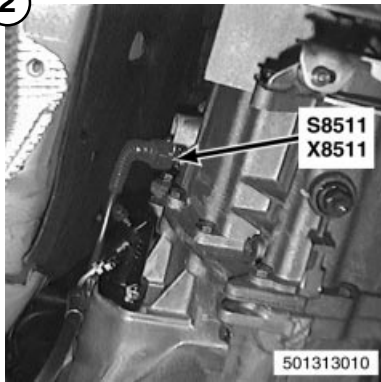
Z3

Component location views



1 2 3

2



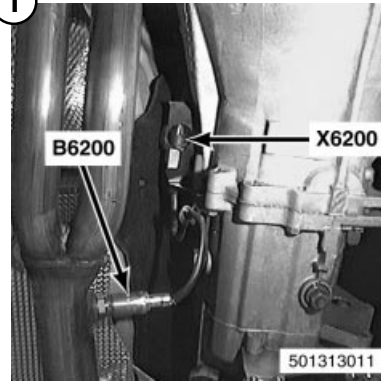
S8511
Reversing light
switch

S8511
X8511

X8511

501313010

1



B6200
Heated oxygen sen-
sor

X6200

X6200

501313011

3



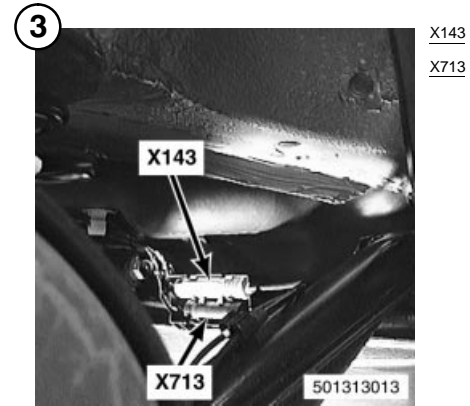
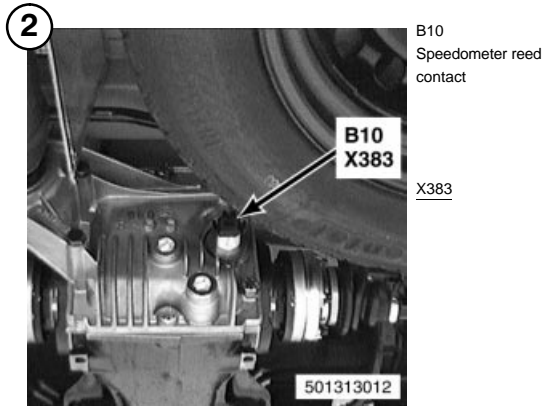
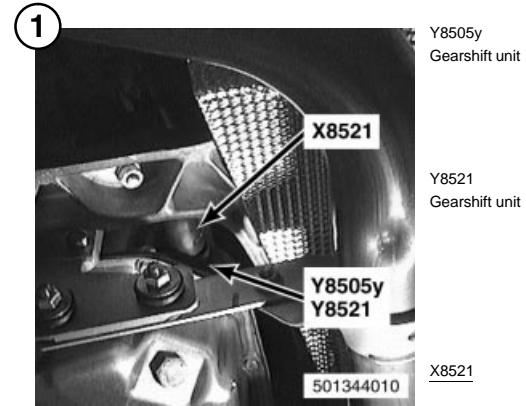
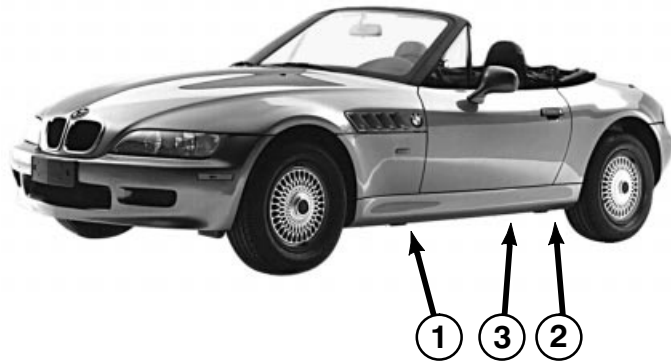
B62001
Oxygen sensor in
front of catalytic con-
verter

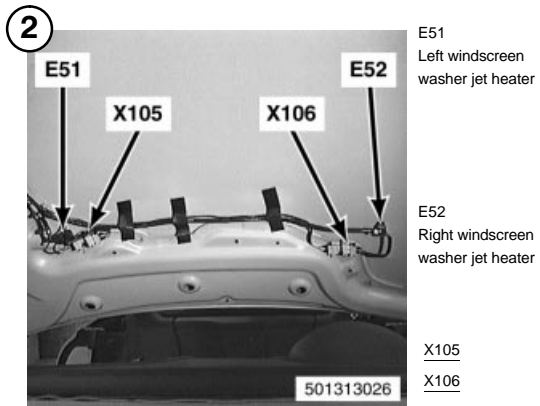
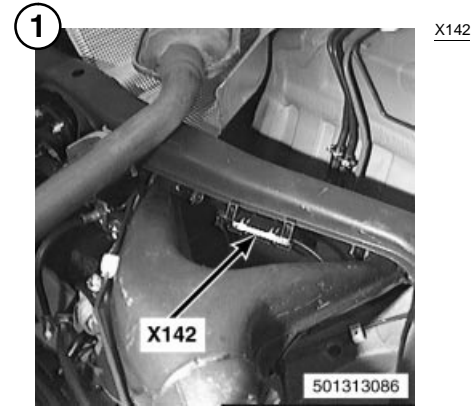
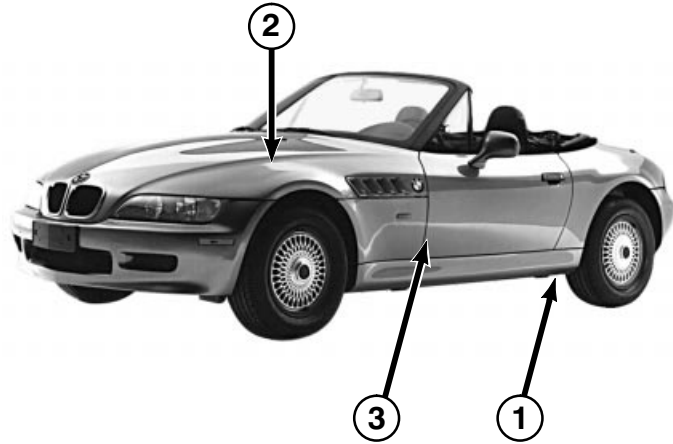
B62001

X62001

X62001

501313061

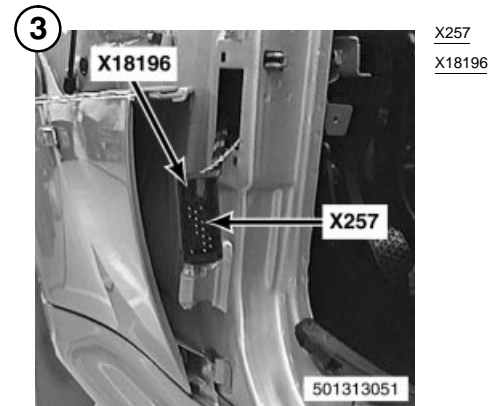




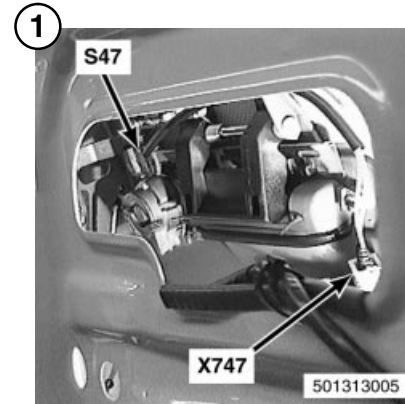
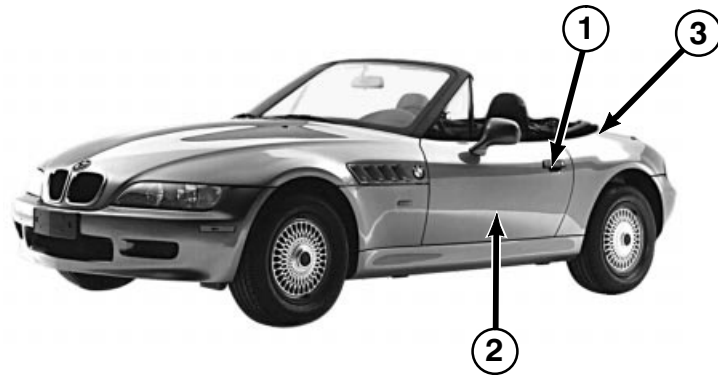
E51
Left windscreen
washer jet heater

E52
Right windscreen
washer jet heater

X105
X106



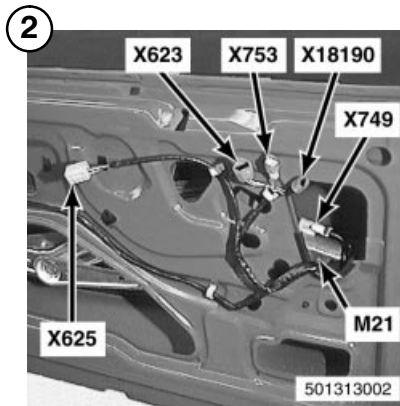
X257
X18196



S47
Driver's door lock
switch

X747

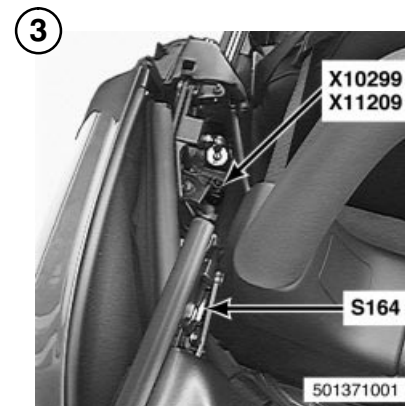
501313005



M21
Driver's window
motor

X623
X625
X749
X753
X18190

501313002

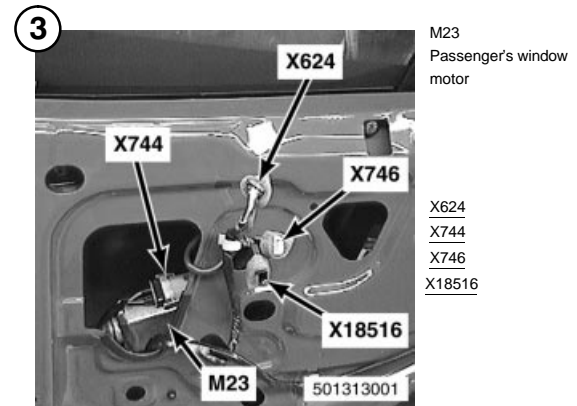
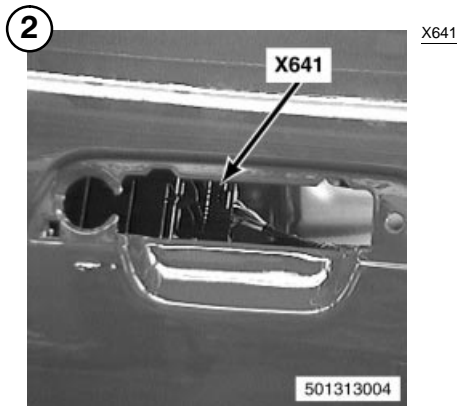
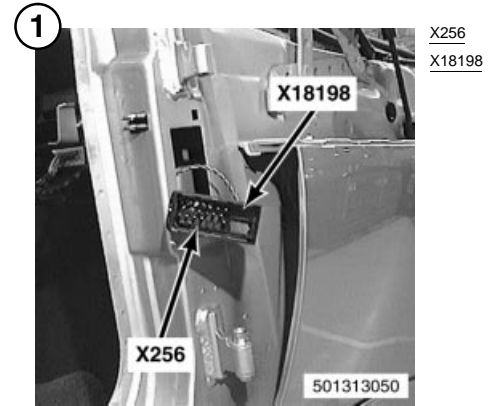
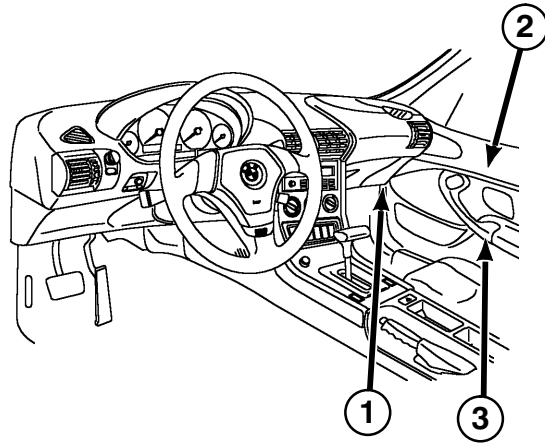


S164
Convertible soft top
deadpoint micro-
switch

X10299
X11209

501371001

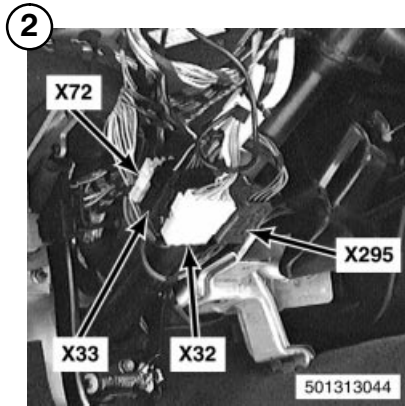
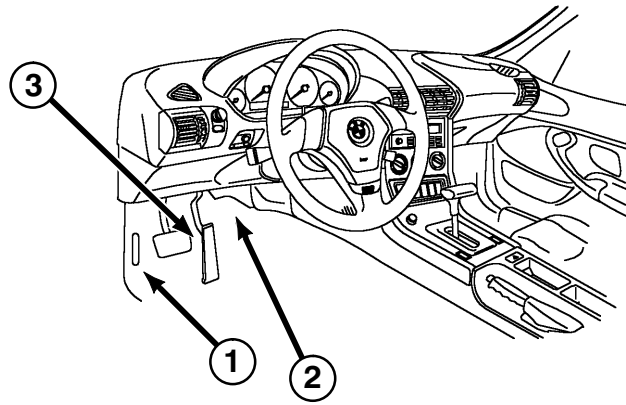
Component location views



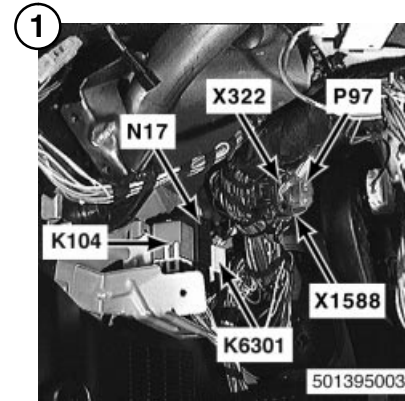


Z3

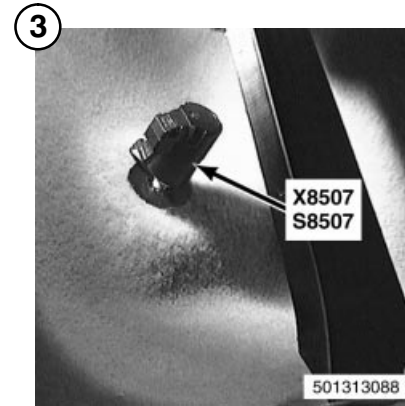
Component location views



X32
 X33
 X72
 X295



K104 Relay, air conditioning/auxiliary water pump
 P97 Auxiliary fuse box
 K6301 Electrical fuel pump relay
 X322 X1588
 N17 Crash alarm sensor

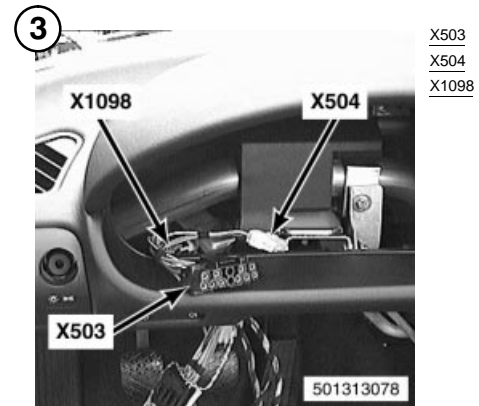
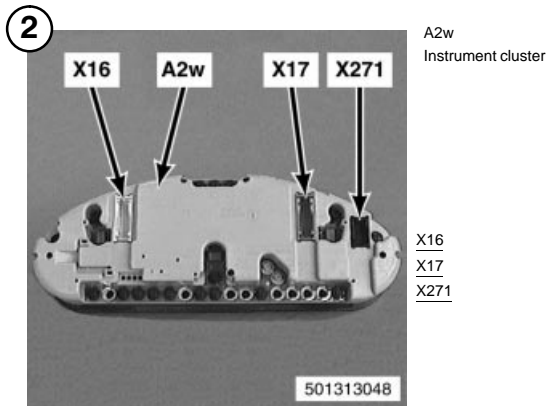
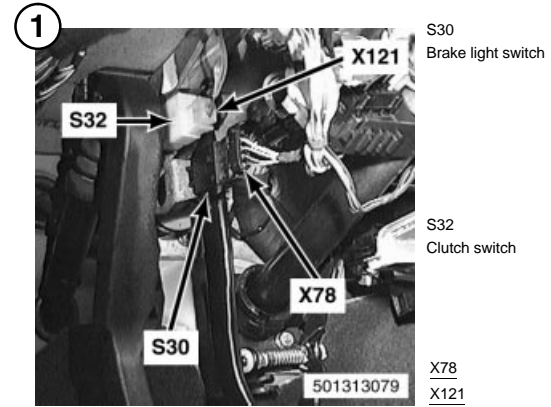
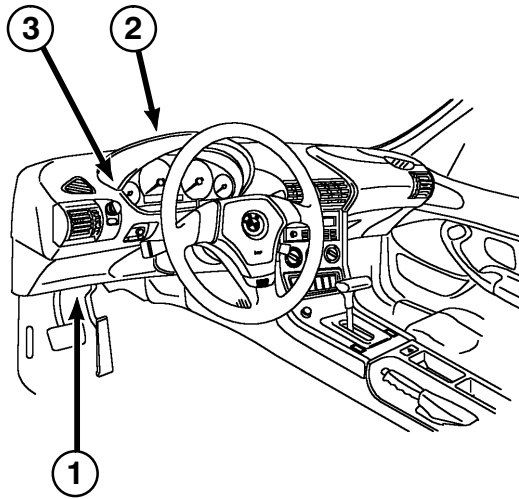


S8507 Kick-down switch
 X8507

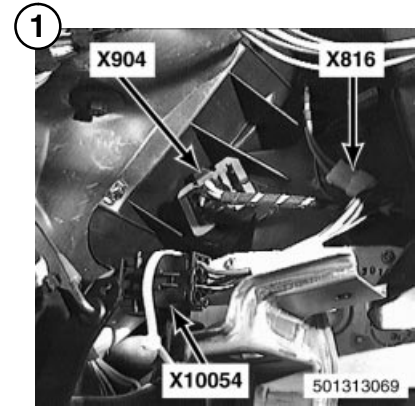
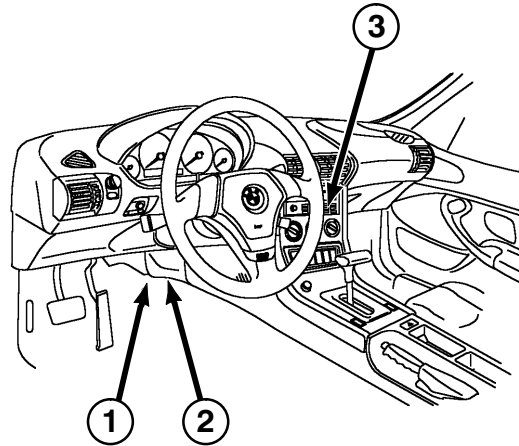


Z3

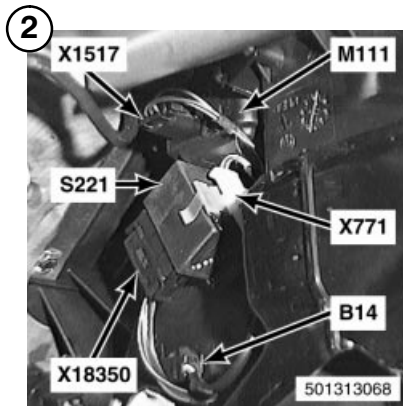
Component location views



Component location views



X816
X904
X10054

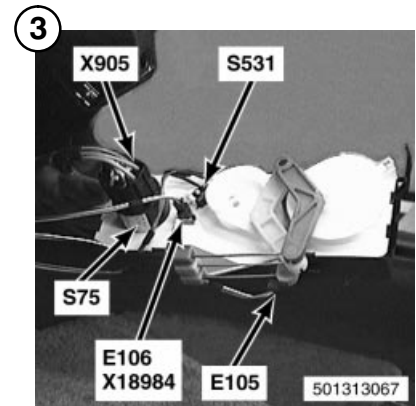


B14
Evaporator sensor

M111
Fresh air circulation motor

S221
Evaporator controller

X771
X1517
X18350



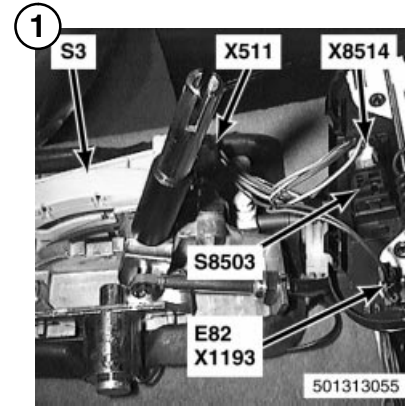
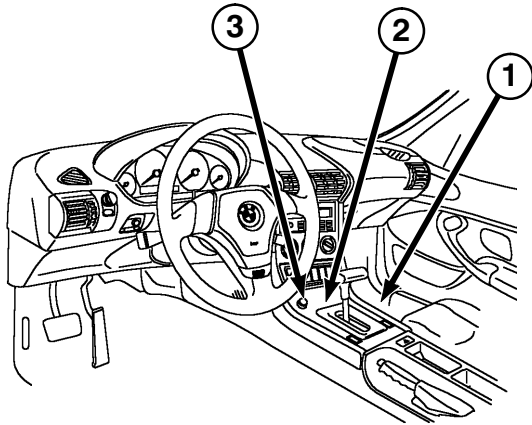
E105
Operating unit lighting I, heating control

S531
Temperature selection switch

E106
Operating unit lighting II, heating control

S75
Blower switch

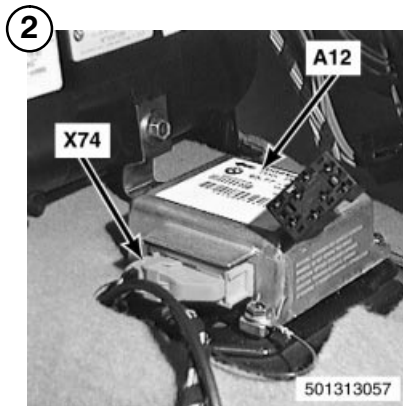
X905
X18984



E82
Gear indicator light
X511
X1193
X8514

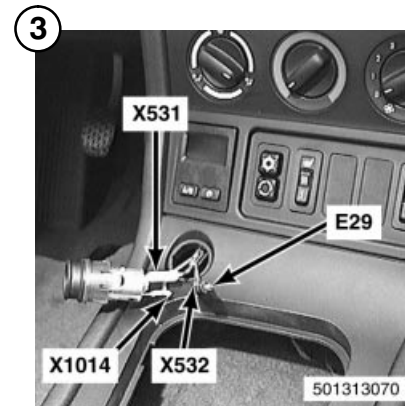
S3
Gear selector lever
switch

S8503
Program switch



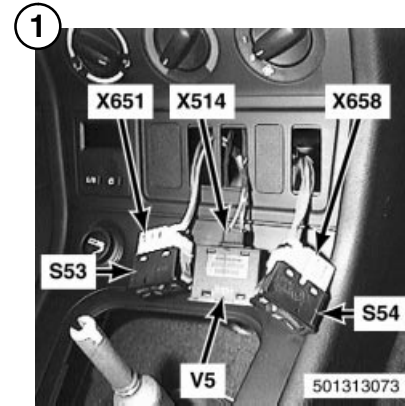
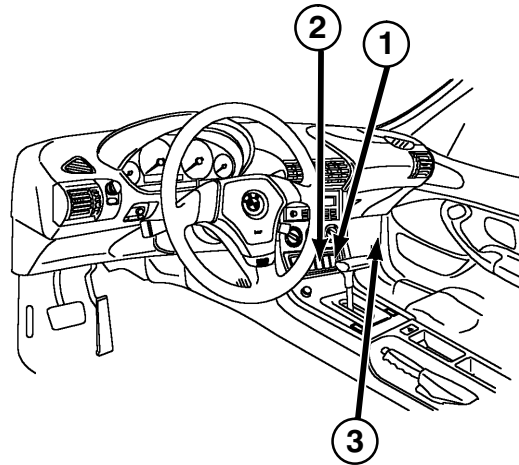
A12
Airbag diagnostic
module

X74



E29
Front cigar lighter
light

X531
X632
X1014



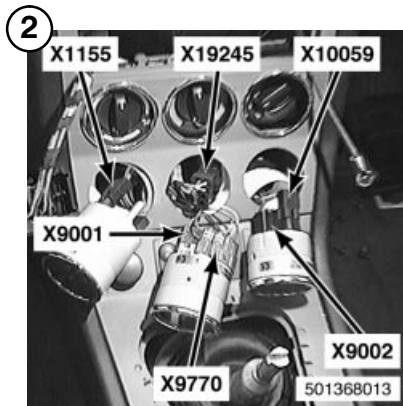
S53
Driver's seat heating
switch

X514
X651
X658

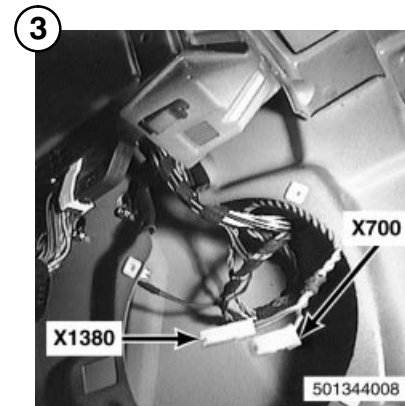
S54
Passenger's seat
heating switch

V5
Antitheft (DWA) LED

501313073

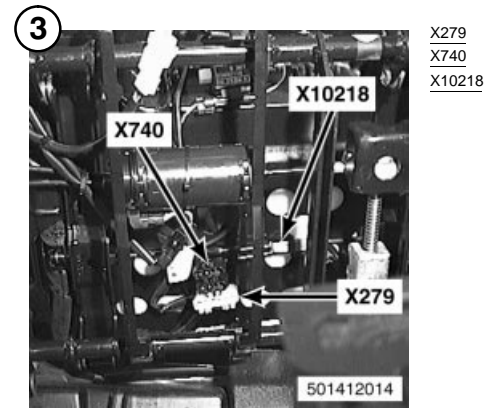
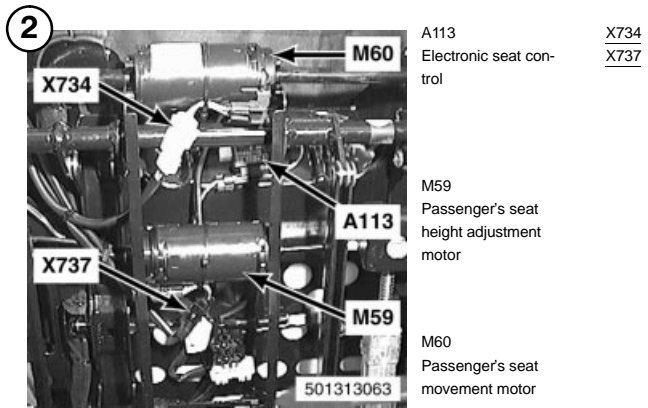
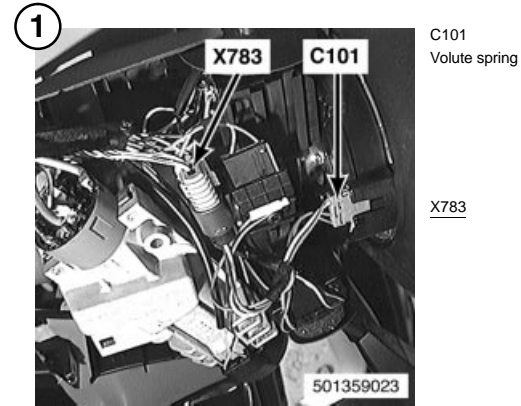
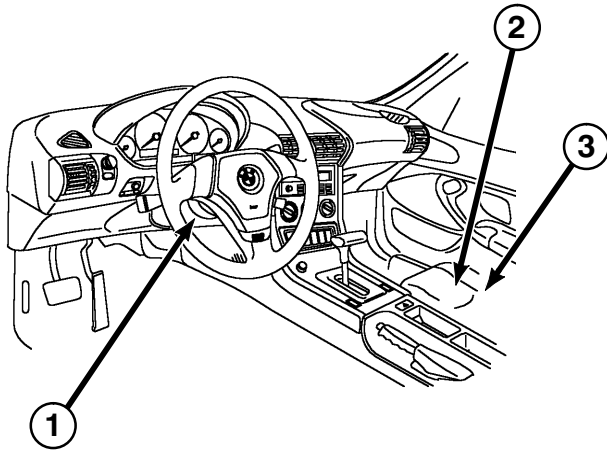


X1155
X9001
X9002
X9770
X10059
X19245

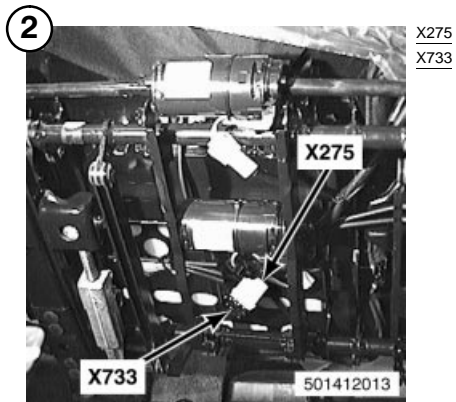
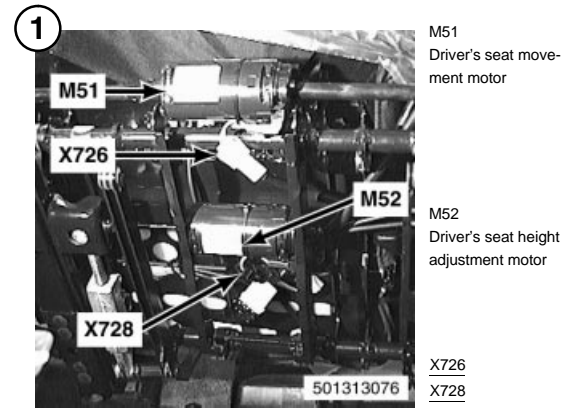
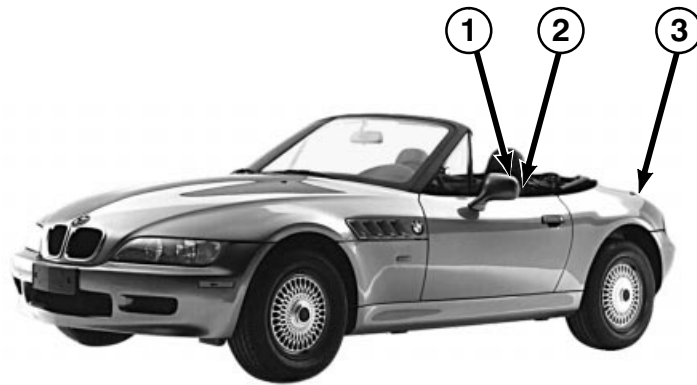


X700
X1380

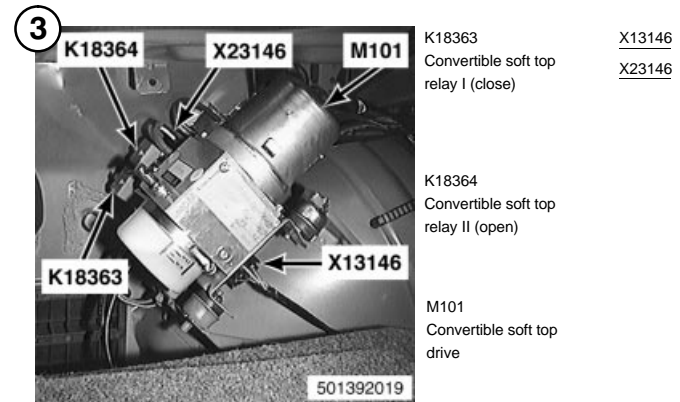
501344008



Component location views

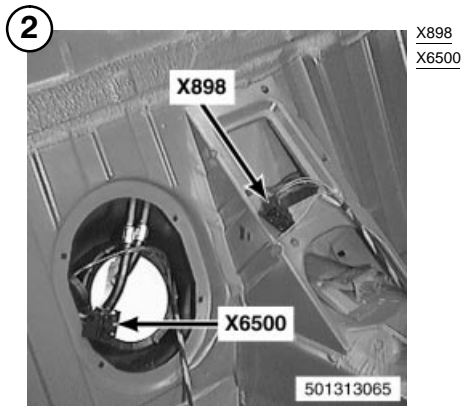
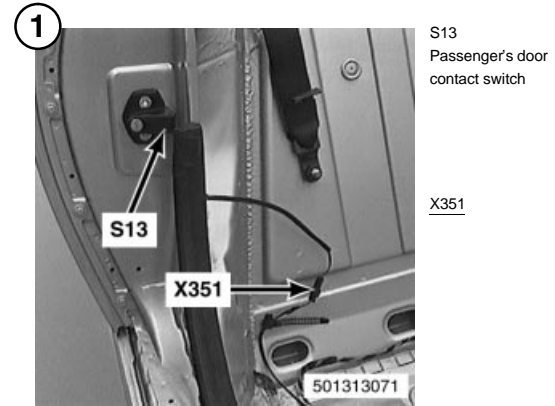
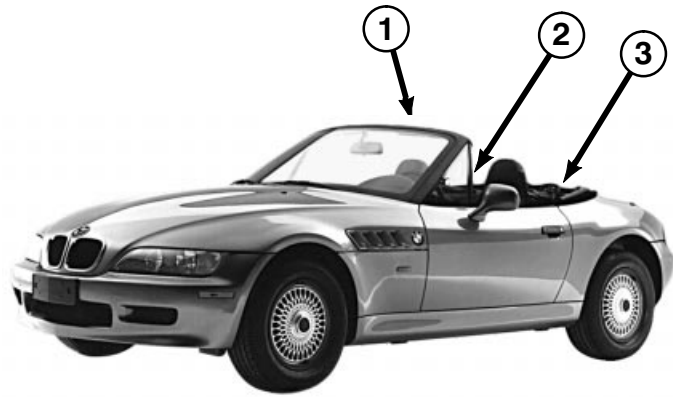


X275
X733

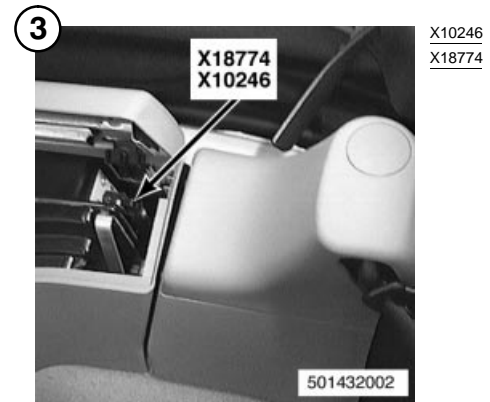


K18363
Convertible soft top relay I (close)

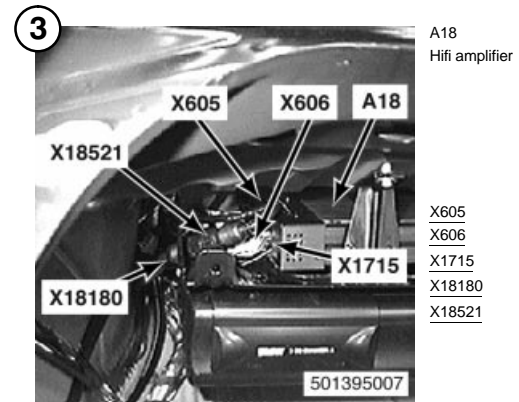
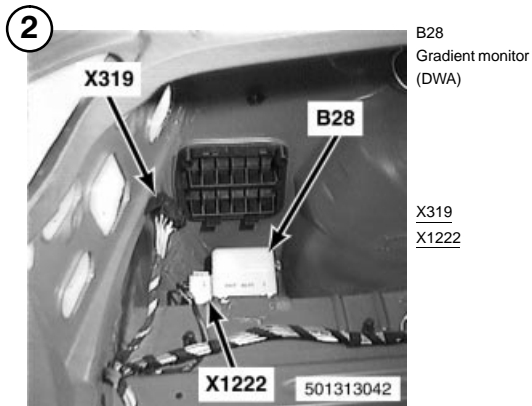
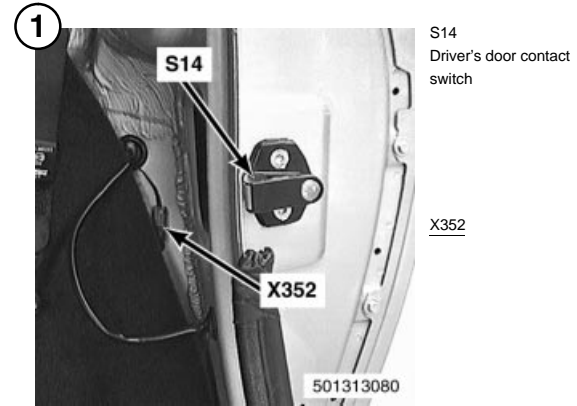
X13146
X23146

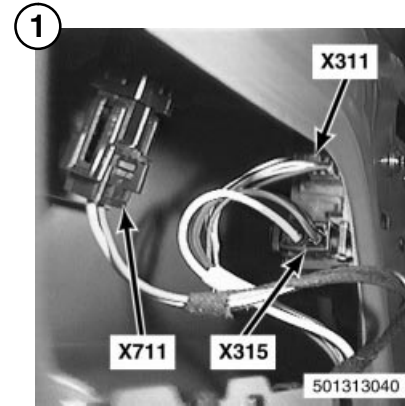
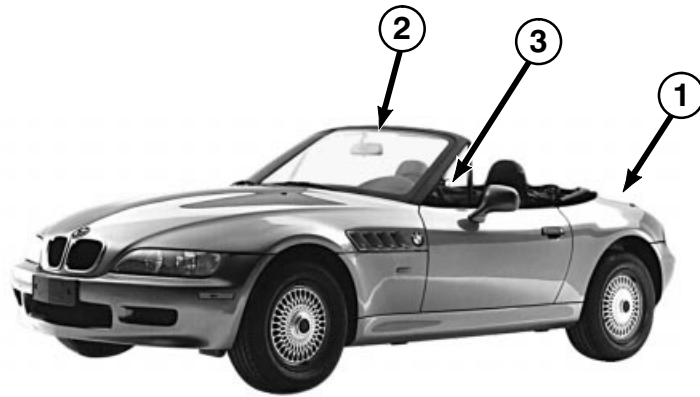


X898
X6500

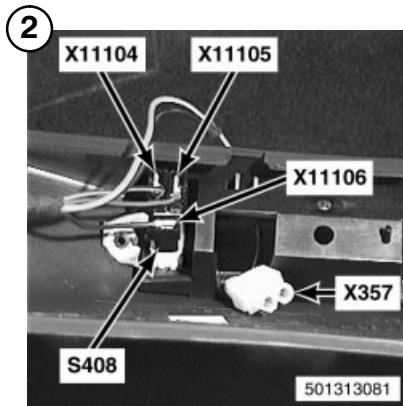


X10246
X18774



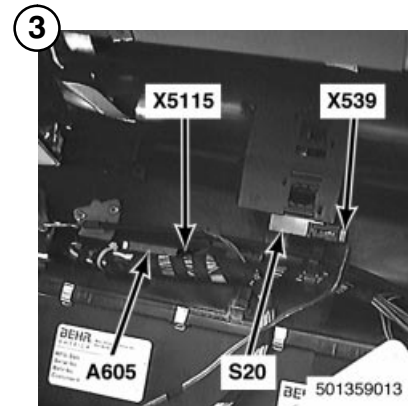


X311
X315
X711



S408
Side light switch

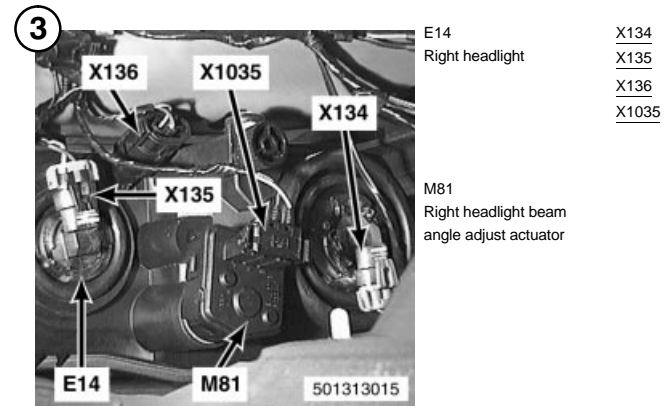
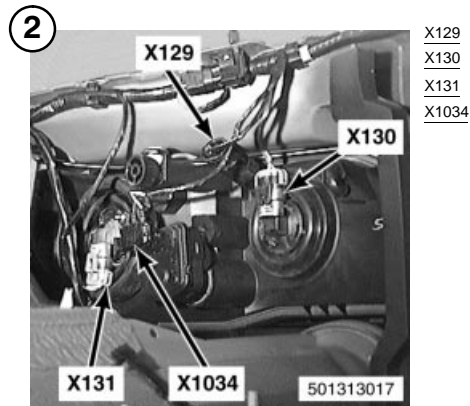
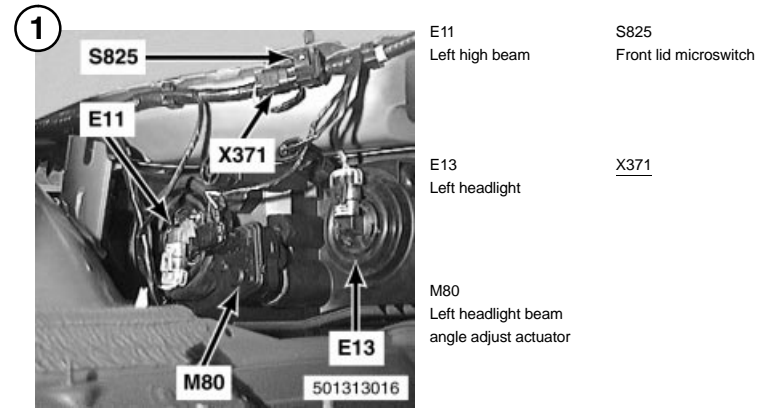
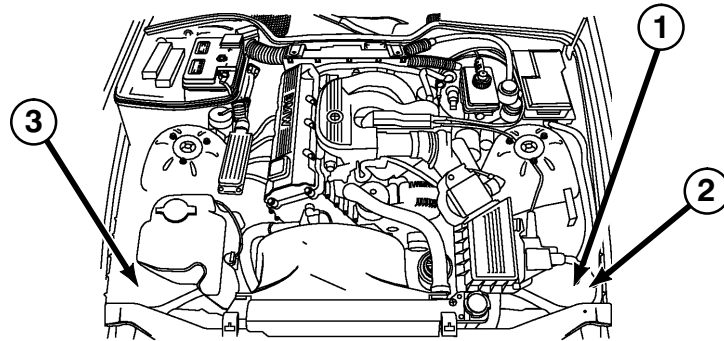
X357
X11104
X11105
X11106

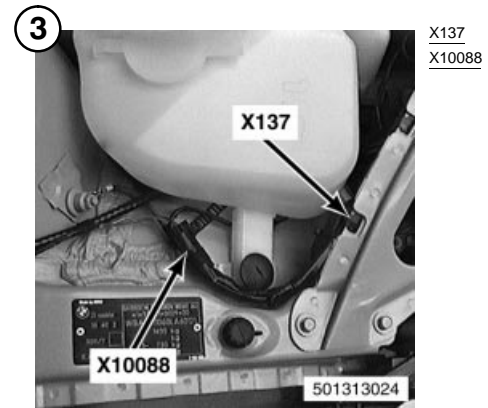
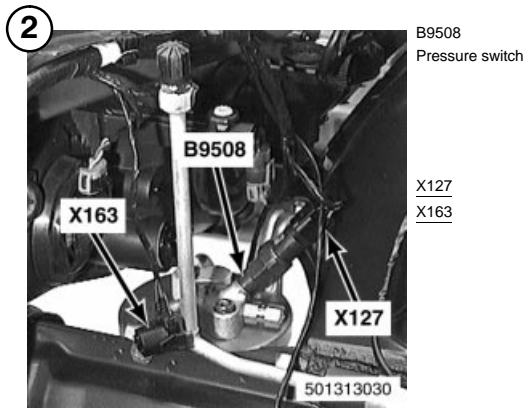
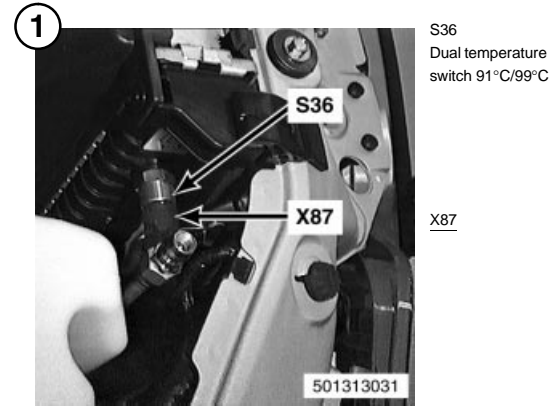
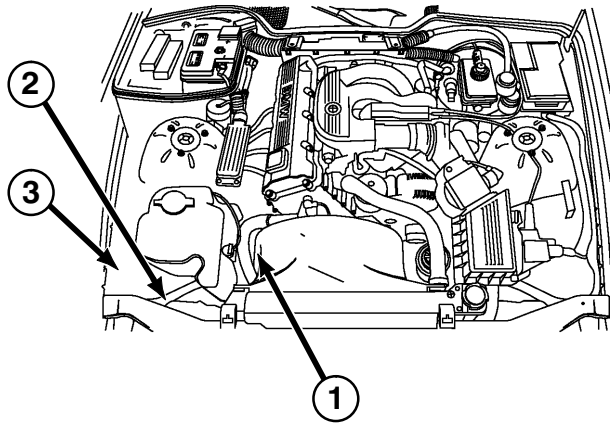


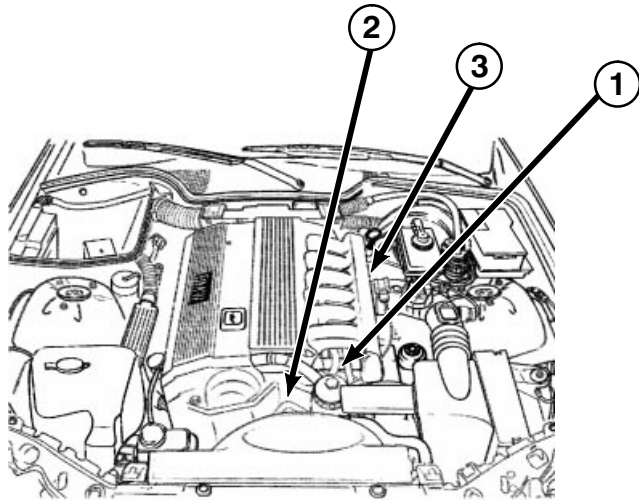
A605
Fuse holder

S20
Antitheft (DWA) radio
microswitch

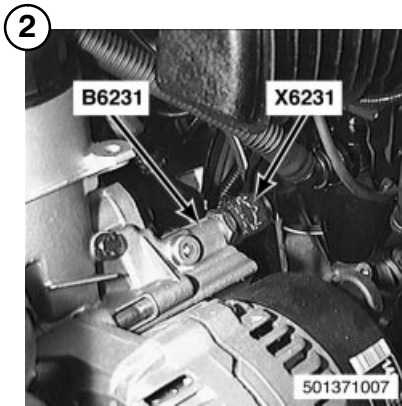
X539
X5115





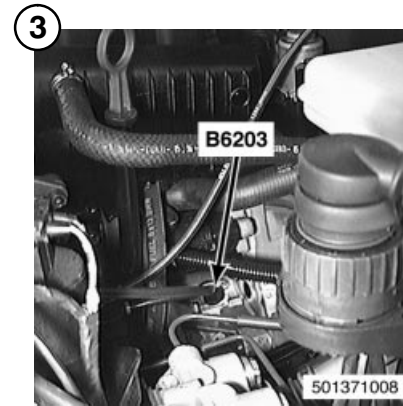


B6256
Dual temperature
sensor (coolant tem-
perature)



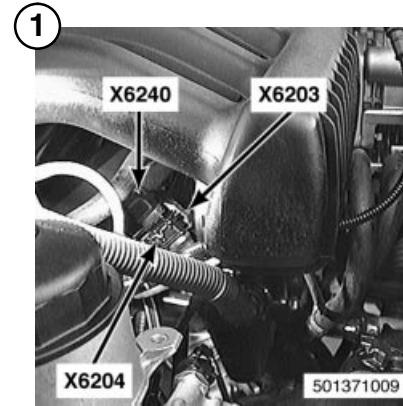
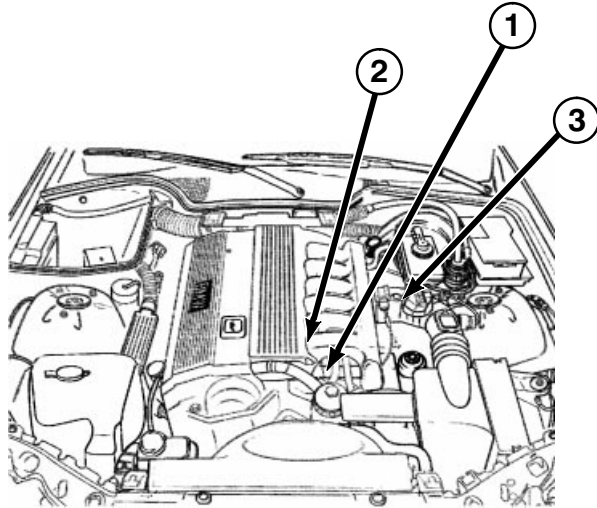
B6231
Oil pressure switch

X6231



B6203
Crankshaft sensor

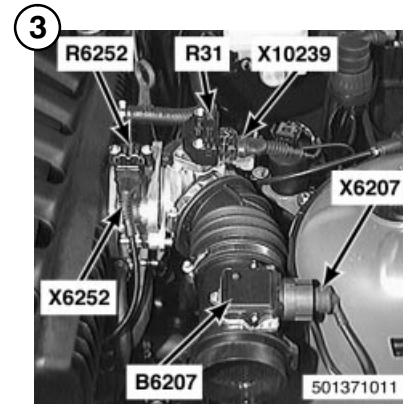
Component location views



X6203
X6204
X6240



B6240
Knock sensor



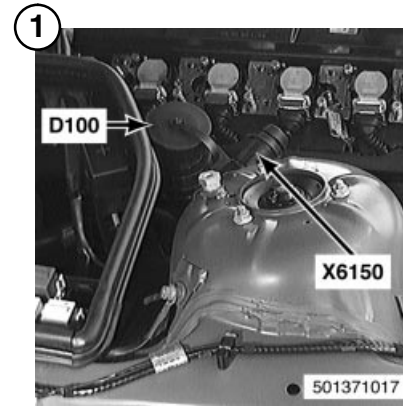
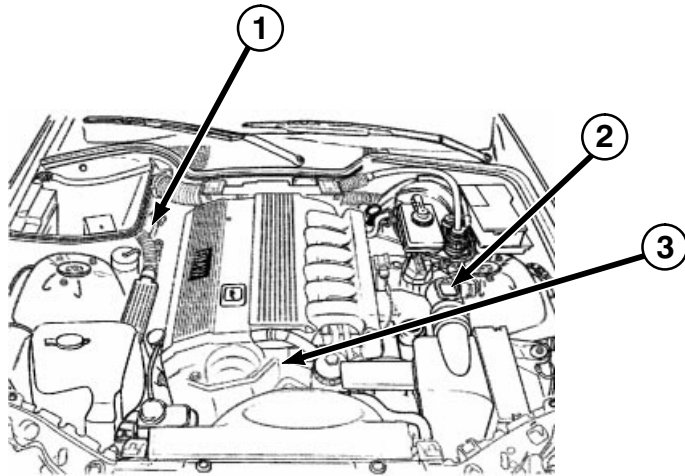
B6207
Hot-film air mass
meter

X6207
R31
ADS potentiometer

R6252
Throttle potentiometer

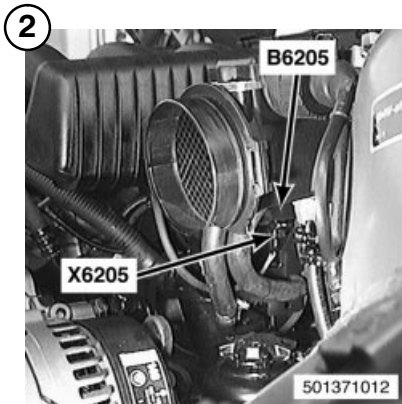
X10239
X6252

Component location views



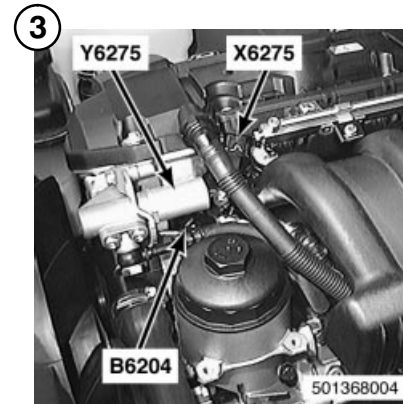
D100
Diagnostic connector

X6150



B6205
Intake air temperature sensor

X6205

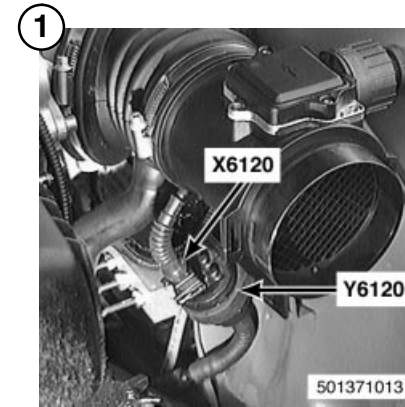
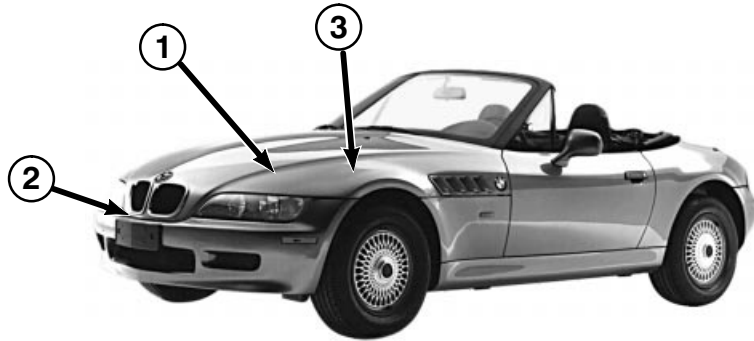


B6204
Camshaft sensor

Y6275
VANOS valve 1

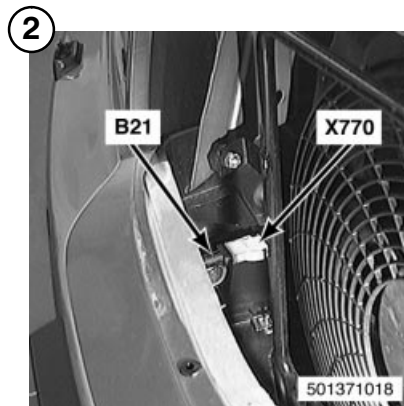
X6275

Component location views



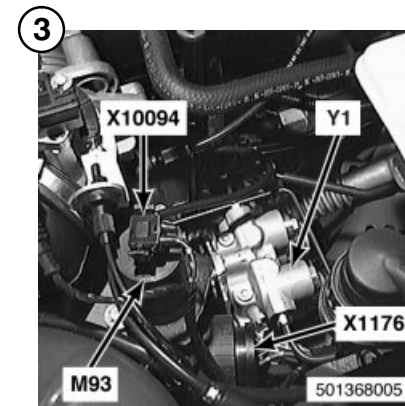
Y6120
Charcoal filter valve

X6120



B21
On-board computer
temperature sensor

X770

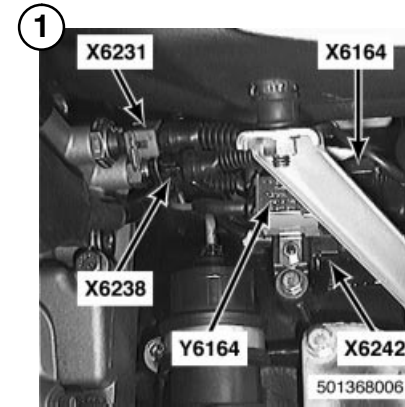
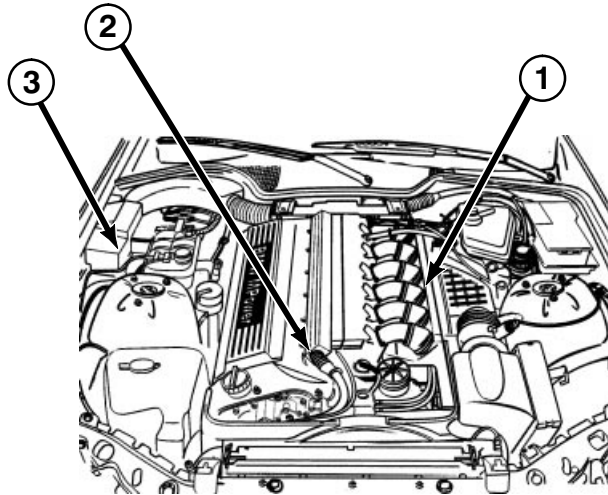


M93
ADS actuator

Y1
ABS hydraulic unit

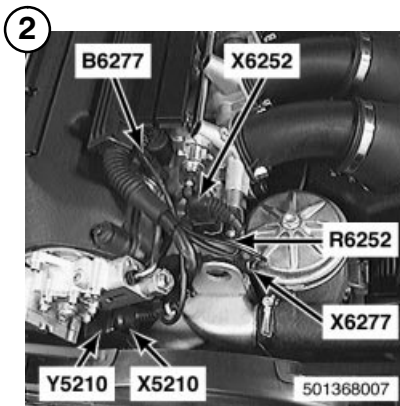
X1176
X10094

Component location views



Y6164
Valve for secondary
air pump

X6164
X6231
X6238
X6242

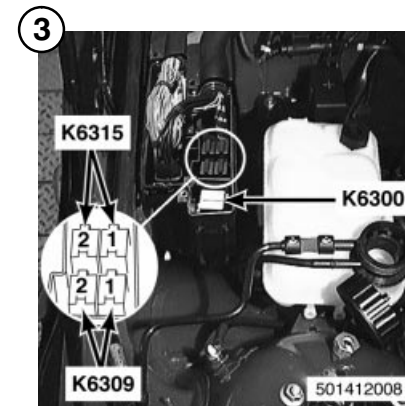


B6277
VANOS sensor 1
(inlet)

R6252
Throttle potentiometer

Y5210
VANOS valve 1 and
2 (inlet)

X5210
X6252
X6277



K6300
DME relay

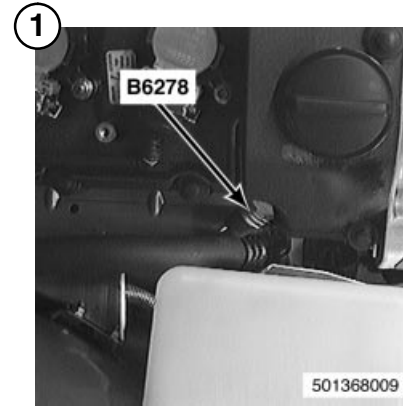
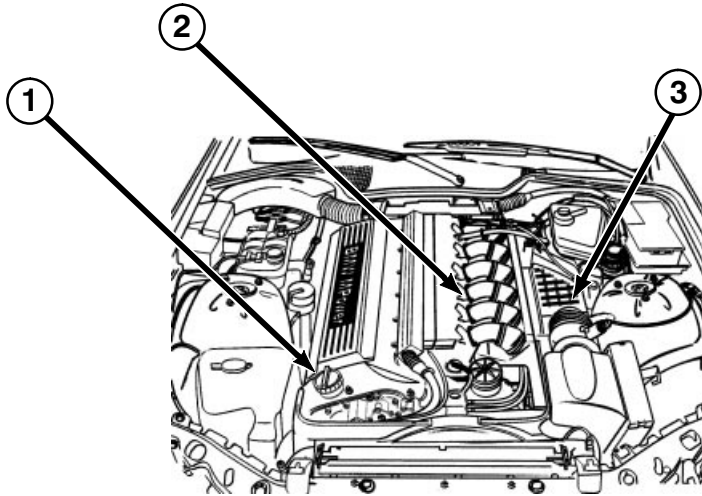
K6309
Oxygen sensor and air pump
relays

- 1) Oxygen sensor relay
- 2) Air pump relay

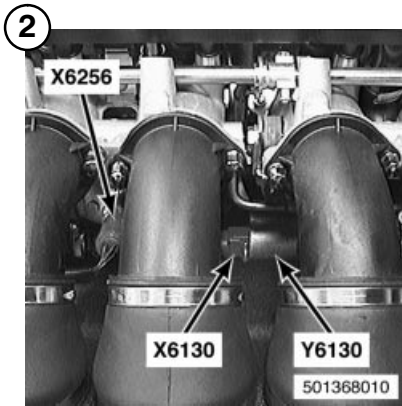
K6315
Relay, unloader terminal 15
and starter recognition

- 1) Unloader relay terminal 15
- 2) Starter recognition relay

Component location views

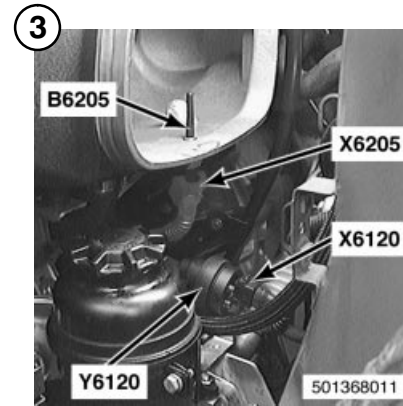


B6278
VANOS sensor 2
(exhaust)



Y6130
Idle actuator

X6130
X6256

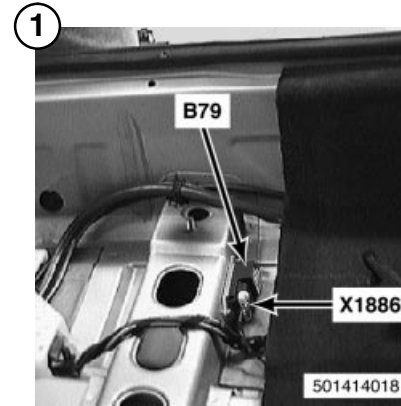
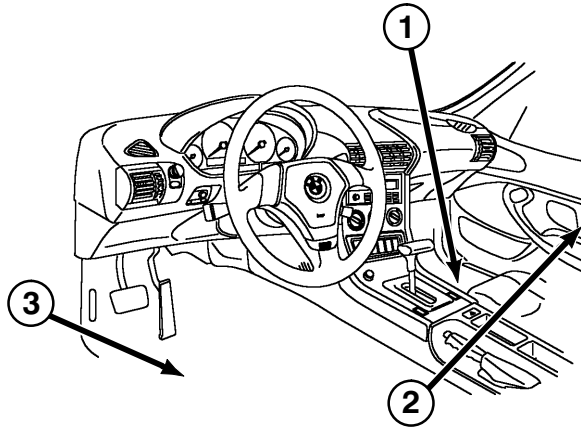


B6205
Intake air temperature sensor

Y6120
Charcoal filter valve

X6120
X6205

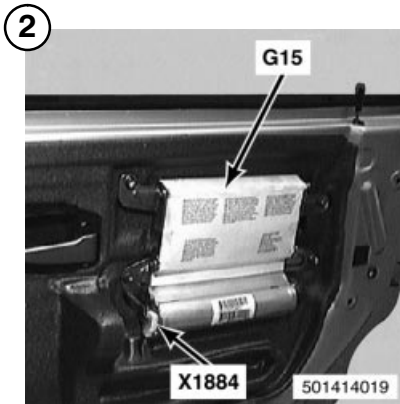
Component location views



B79
Passenger's side
impact sensor

X1886

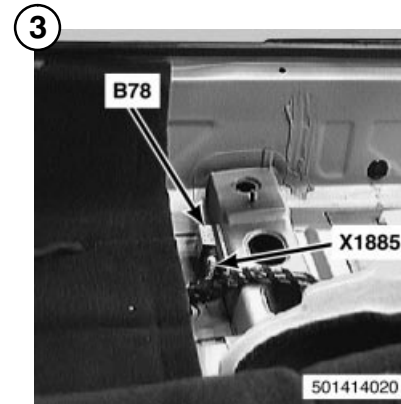
501414018



G15
Gas generator, right
side airbag

X1884

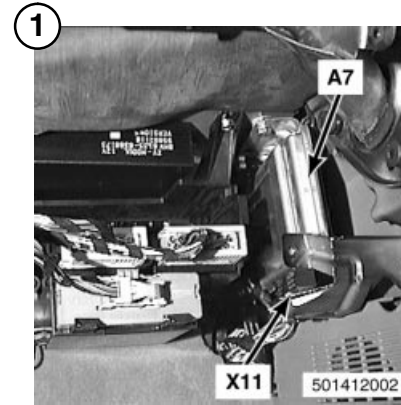
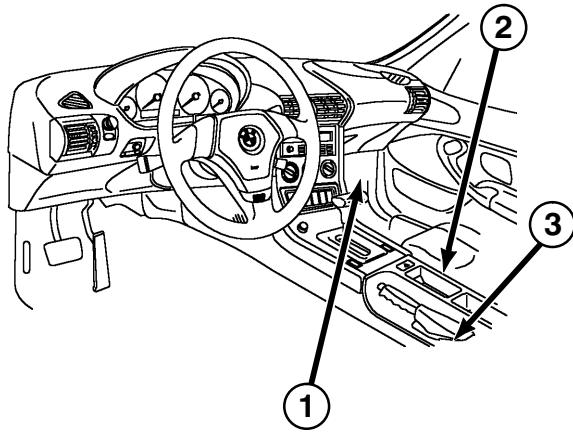
X1884
501414019



B78
Driver's side impact
sensor

X1885

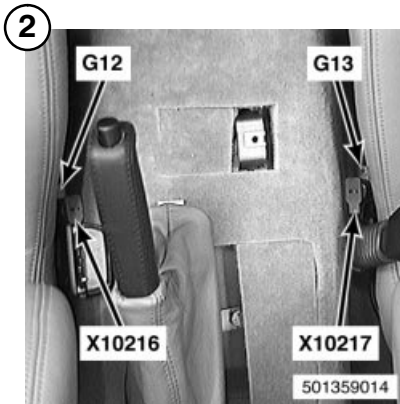
501414020



A7
ABS control unit

X11

X11 501412002



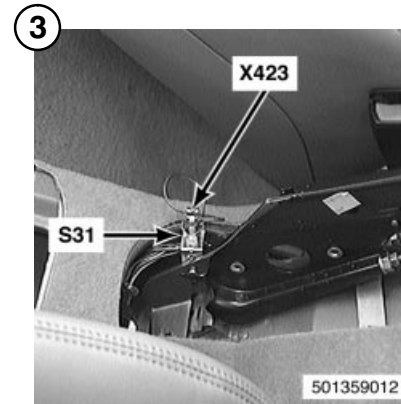
G12
Pyrotechnical belt
tensioner, driver's
side

G13
Pyrotechnical belt
tensioner, passen-
ger's side

X10216
X10217

X10217

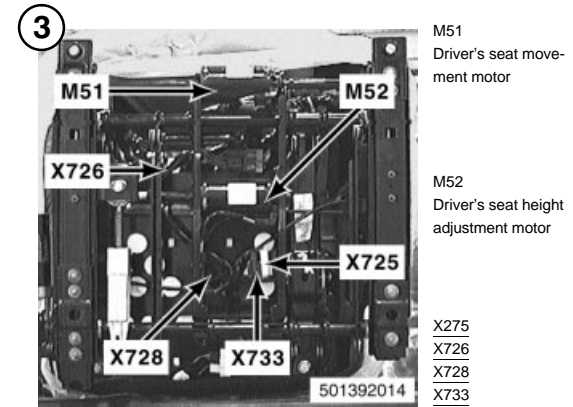
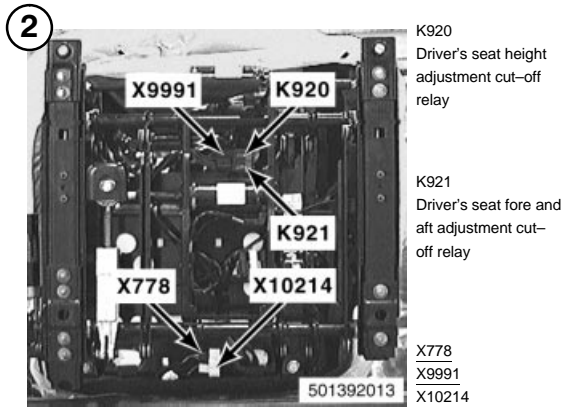
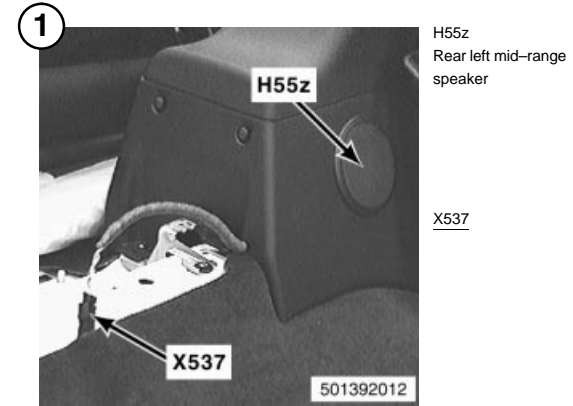
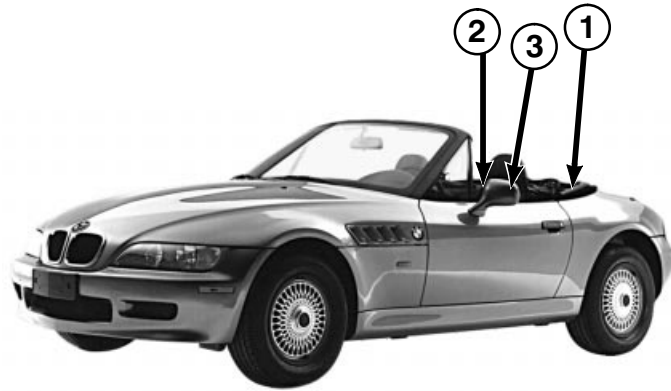
501359014

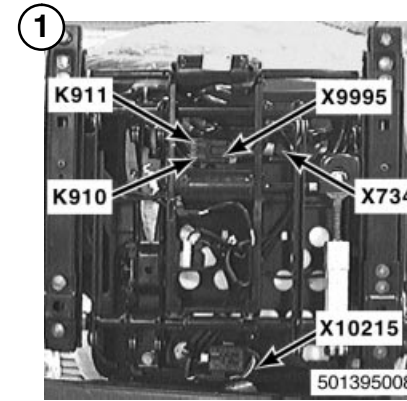
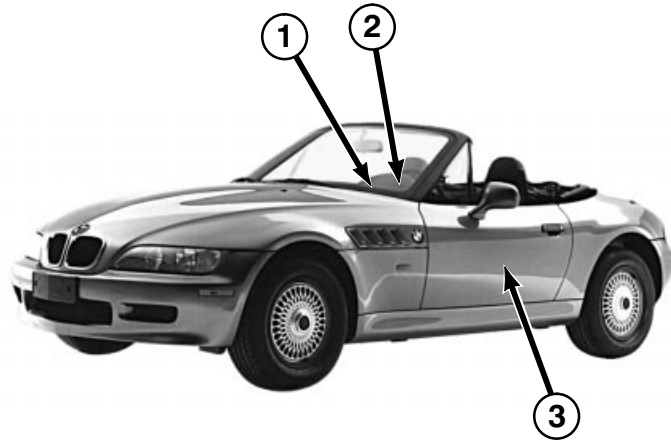


S31
Handbrake switch

X423

501359012



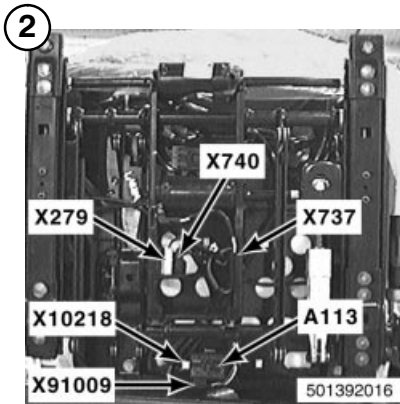


K910
Passenger seat
height adjustment
cut-off relay

K911
Passenger seat fore
and aft adjustment
cut-off relay

X734
X9995
X10215

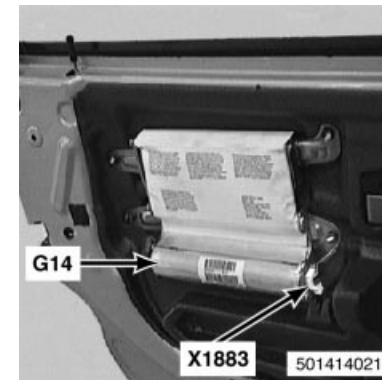
501395008



A113
Electronic seat con-
trol

X279
X737
X740
X10218
X91009

501392016

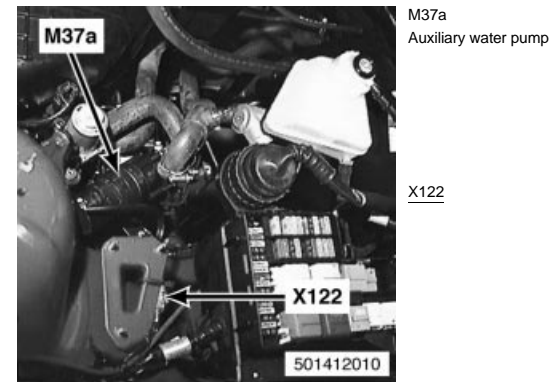
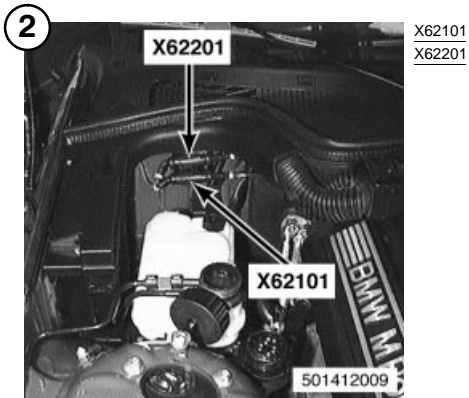
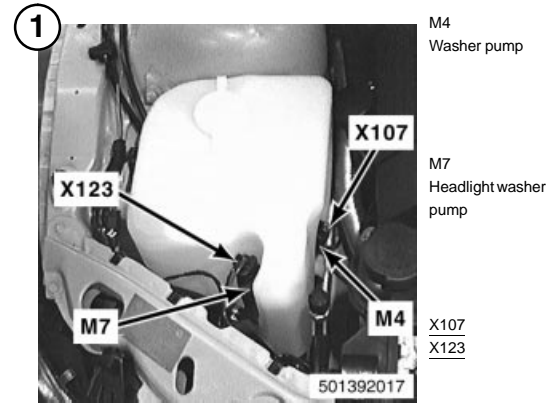
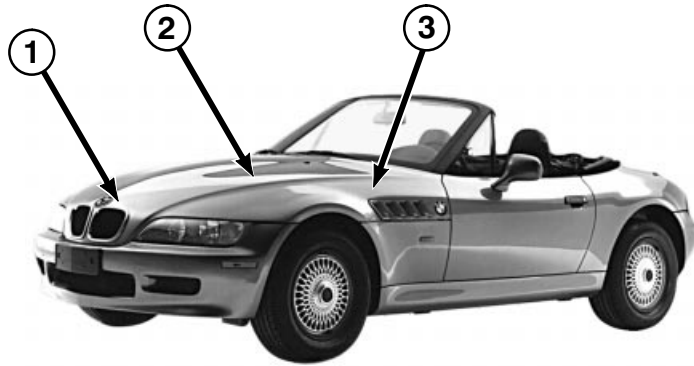


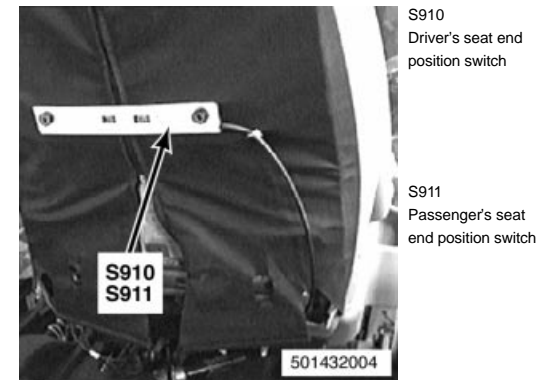
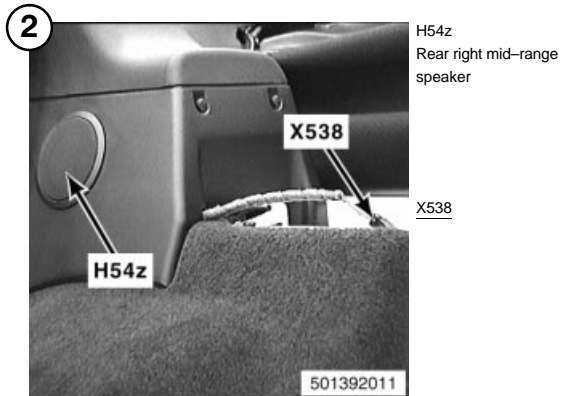
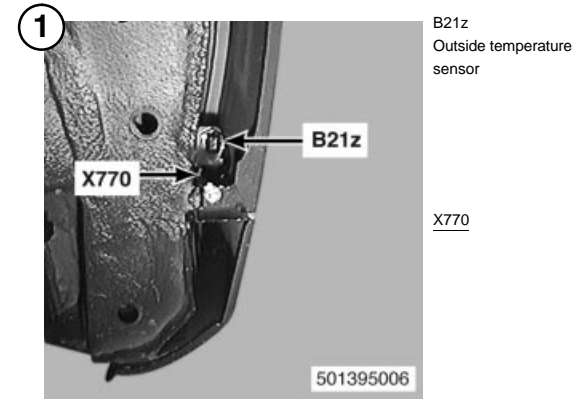
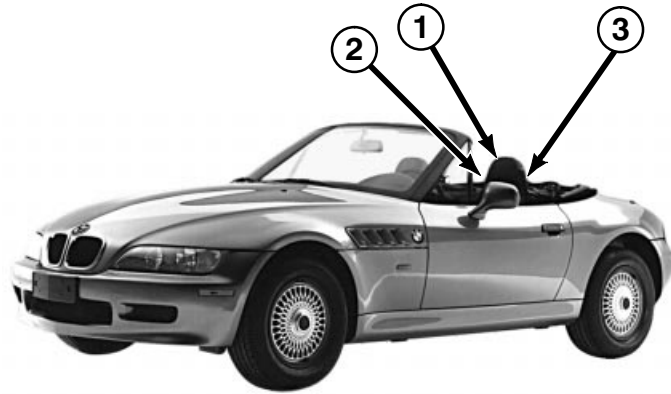
G14
Gas generator, left
side airbag

X1883

501414021

Component location views



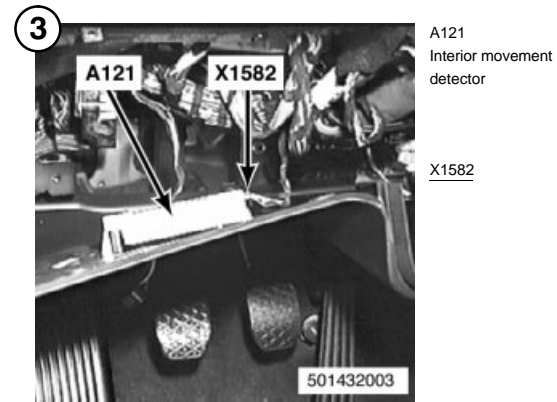
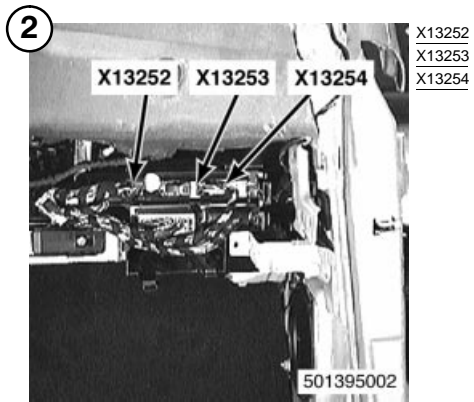
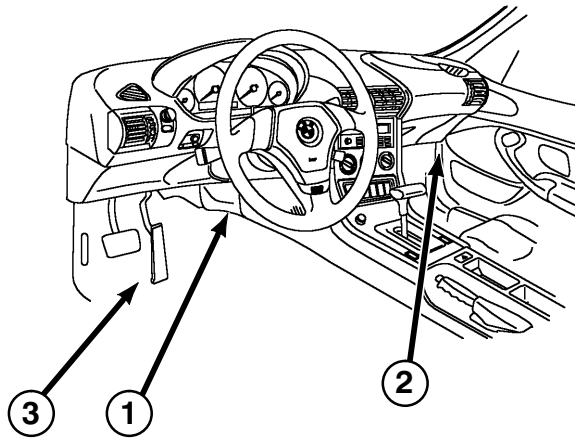




7100.0 Component location views

Location of control units

Z3





8000.0 Connector location views (soldering spots and comb-type connectors)

Z3

Solder connector	Wire harness	Side	Solder connector	Wire harness	Side
X181–X185	Body	8000.0-03	X878	Body	8000.0-04
X188	Body	8000.0-04	X888	Body	8000.0-03
X189	IHKS/HR	No Fig.	X906	IHKS/HR	No Fig.
X191	Body	8000.0-04	X942	Passenger's door	No Fig.
X195	Body	8000.0-03	X985	IHKS/HR	No Fig.
X196–X197	Body	8000.0-04	X1015–X1019	Body	8000.0-03
X203	Body	8000.0-03	X1022–X1027	Body	8000.0-03
X213	Body	8000.0-04	X1028–X1029	Body	8000.0-04
X216–X223	Body	8000.0-03	X1055	Body	8000.0-04
X245–X246	Body	8000.0-03	X1036–X1047	Body	8000.0-03
X443–X444	Body	8000.0-04	X1066–X1076	Body	8000.0-03
X445	Body	8000.0-03	X1079	Body	8000.0-04
X449–X465	Body	8000.0-04	X1091	Heated spray nozzles	No Fig.
X470	Body	8000.0-03	X1100–X1115	Body	8000.0-03
X530	Body	8000.0-03	X1149	Body	8000.0-03
X576	Body	8000.0-03	X1152–X1164	Body	8000.0-03
X595	Body	8000.0-04	X1168–X1169	Body	8000.0-03
X697–X699	Body	8000.0-03	X1182	Body	8000.0-04
X805–X806	Body	8000.0-04	X1186	Body	8000.0-03
X814–X818	IHKS/HR	No Fig.	X1214	Body	8000.0-03
X824–X830	Radio/Hifi/CD	No Fig.	X1225–X1226	Body	8000.0-04
X849–X851	Driver's door	No Fig.	X1234–X1235	Body	8000.0-04
X876–X877	Radio/Hifi/CD	No Fig.	X1236	Body	8000.0-03



Z3

Connector location views (soldering spots and comb-type connectors)

Solder connector	Wire harness	Side	Solder connector	Wire harness	Side
X1258	Body	8000.0-03	X6810-X6866	MSS50 engine	8000.0-08
X1263	Body	8000.0-04	X6820-X6823	M44 engine	8000.0-06
X1264	Body	8000.0-03	X6820-X6823	M43 engine	8000.0-05
X1280	Body	8000.0-03	X6832-X6891	M44 engine	8000.0-06
X1403	Body	8000.0-03	X6832-X6863	M43 engine	8000.0-05
X1541-X1542	Body	8000.0-03	X6900	M43 engine	8000.0-05
X1608	Body	8000.0-04	X6900	M44 engine	8000.0-06
X1610-X1616	Body	8000.0-03	X6901-X6906	MSS50 engine	8000.0-08
X1617-X1618	Body	8000.0-04	X6949	Body	8000.0-03
X1620-X1625	Body	8000.0-03	X7845-X7846	M44 engine	8000.0-06
X1682	Body	8000.0-03	X7163	MSS50 engine	8000.0-08
X2233	Body	8000.0-03	X8004-X8005	M44 engine	8000.0-06
X5010-X5011	MSS50 engine	8000.0-08	X8004-X8005	M43 engine	8000.0-05
X5254-X5270	MSS50 engine	8000.0-08	X8004-80015	M52 engine	8000.0-07
X6410	M43 engine	8000.0-05	X8004-80074	MSS50 engine	8000.0-08
X6410	M44 engine	8000.0-06	X8008	M44 engine	8000.0-06
X6410-X6492	MSS50 engine	8000.0-08	X8015	M44 engine	8000.0-06
X6411-X6420	M52 engine	8000.0-07	X8015	M43 engine	8000.0-05
X6458-X6459	M52 engine	8000.0-07	X8024	Body	8000.0-03
X6460-X6492	M44 engine	8000.0-06	X8038-X8051	M52 engine	8000.0-07
X6460-X6492	M43 engine	8000.0-05	X8056	M44 engine	8000.0-06
X6492	M52 engine	8000.0-07	X8071-X8091	M52 engine	8000.0-07
X6810-X6867	M52 engine	8000.0-07	X8073	M44 engine	8000.0-06



Z3

Connector location views (soldering spots and comb-type connectors)

Solder connector	Wire harness	Side
X8564-X8565	M52 engine	8000.0-07
X8564-X8576	M44 engine	8000.0-06
X8576	M52 engine	8000.0-07
X9430-X9454	Body	8000.0-03
X10008	Body	8000.0-03
X10009	Body	8000.0-04
X10014-X10055	Body	8000.0-03
X10064	Body	8000.0-04
X10100-X10126	Body	8000.0-03
X10169	M43 engine	8000.0-05
X10169	M44 engine	8000.0-06
X10189	Body	8000.0-04
X10251-X10252	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
X13921	Auxiliary instruments	No Fig.

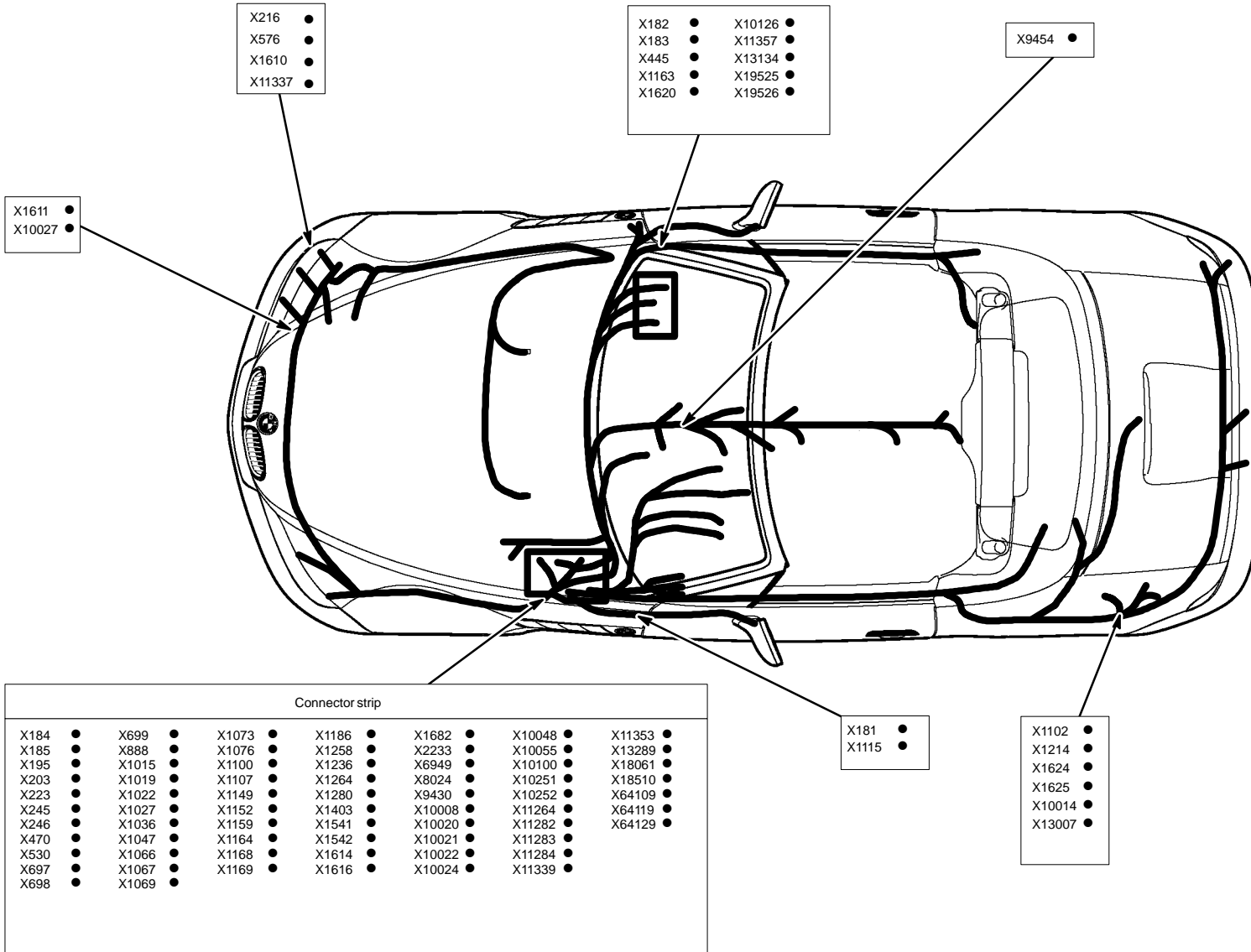
Solder connector	Wire harness	Side
X18061	Body	8000.0-03
X18510	Body	8000.0-03
X19004	Body	8000.0-04
X19513	Radio/Hifi/CD	No Fig.
X19525-X19526	Body	8000.0-03
X64109	Body	8000.0-03
X64119	Body	8000.0-03
X64129	Body	8000.0-03
X64591	Body	8000.0-04
X68309	IHKS/HR	No Fig.
X69001-X69011	MSS50 engine	8000.0-08
X80253	M52 engine	8000.0-07
X91186	Auxiliary instruments	No Fig.



Connector location views (soldering spots and comb-type connectors)

Body wire harness (partially)

Z3



Connector strip

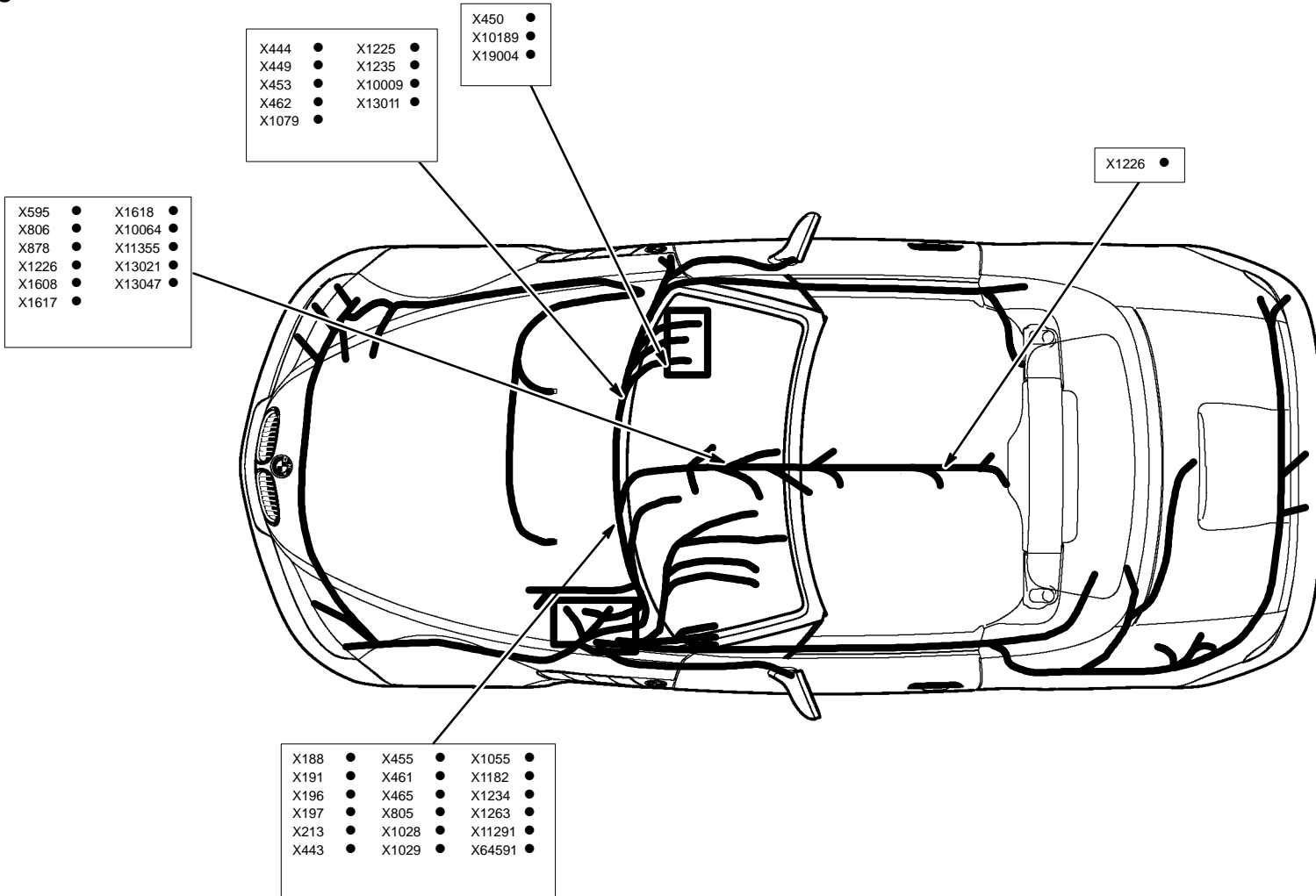
X184	●	X699	●	X1073	●	X1186	●	X1682	●	X10048	●	X11353	●
X185	●	X888	●	X1076	●	X1258	●	X2233	●	X10055	●	X13289	●
X195	●	X1015	●	X1100	●	X1236	●	X6949	●	X10100	●	X18061	●
X203	●	X1019	●	X1107	●	X1264	●	X8024	●	X10251	●	X18510	●
X223	●	X1022	●	X1149	●	X1280	●	X9430	●	X10252	●	X64109	●
X245	●	X1027	●	X1152	●	X1403	●	X10008	●	X11264	●	X64119	●
X246	●	X1036	●	X1159	●	X1541	●	X10020	●	X11282	●	X64129	●
X470	●	X1047	●	X1164	●	X1542	●	X10021	●	X11283	●		
X530	●	X1066	●	X1168	●	X1614	●	X10022	●	X11284	●		
X697	●	X1067	●	X1169	●	X1616	●	X10024	●	X11339	●		
X698	●	X1069	●										



Connector location views (soldering spots and comb-type connectors)

Body wire harness (partially)

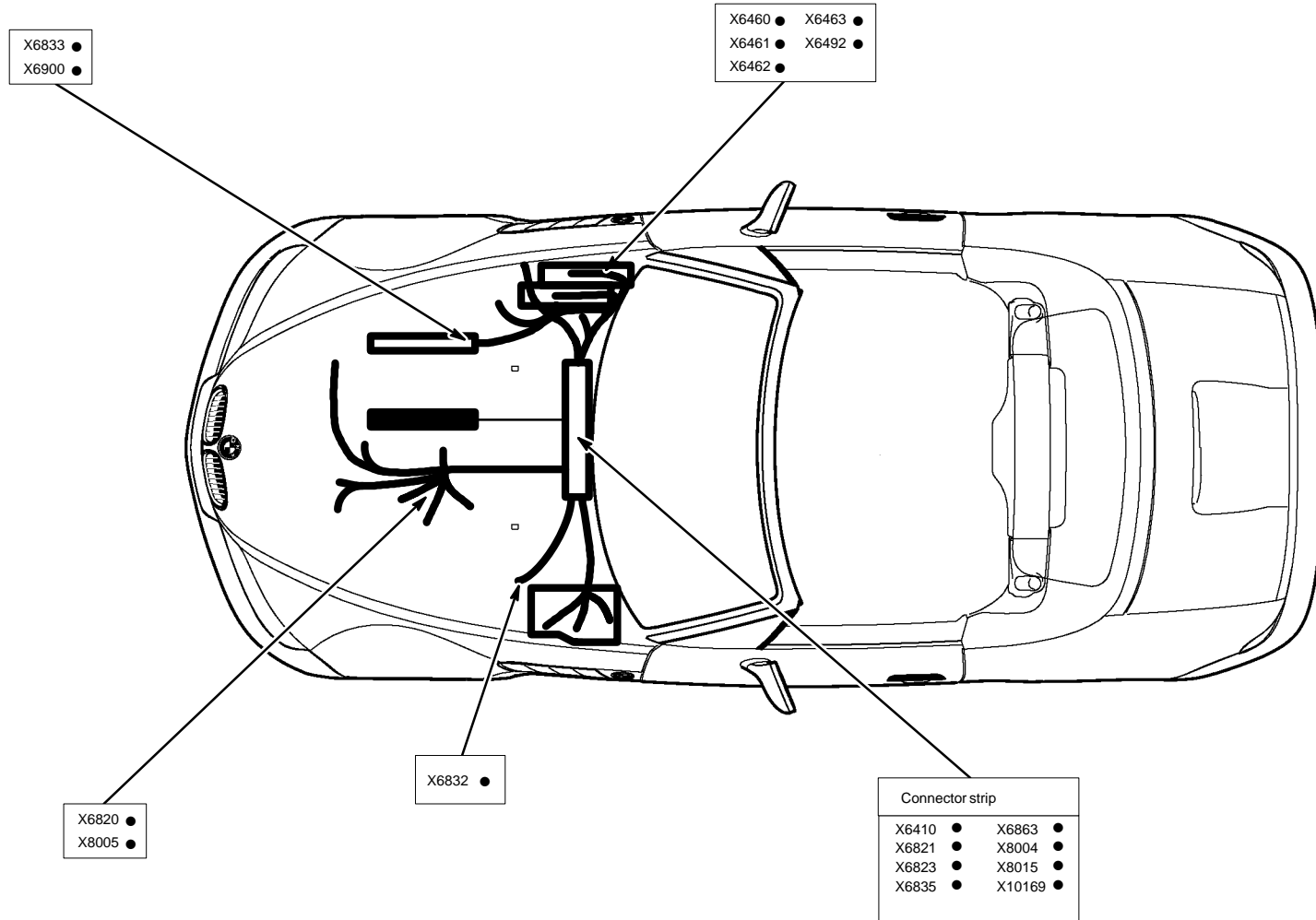
Z3





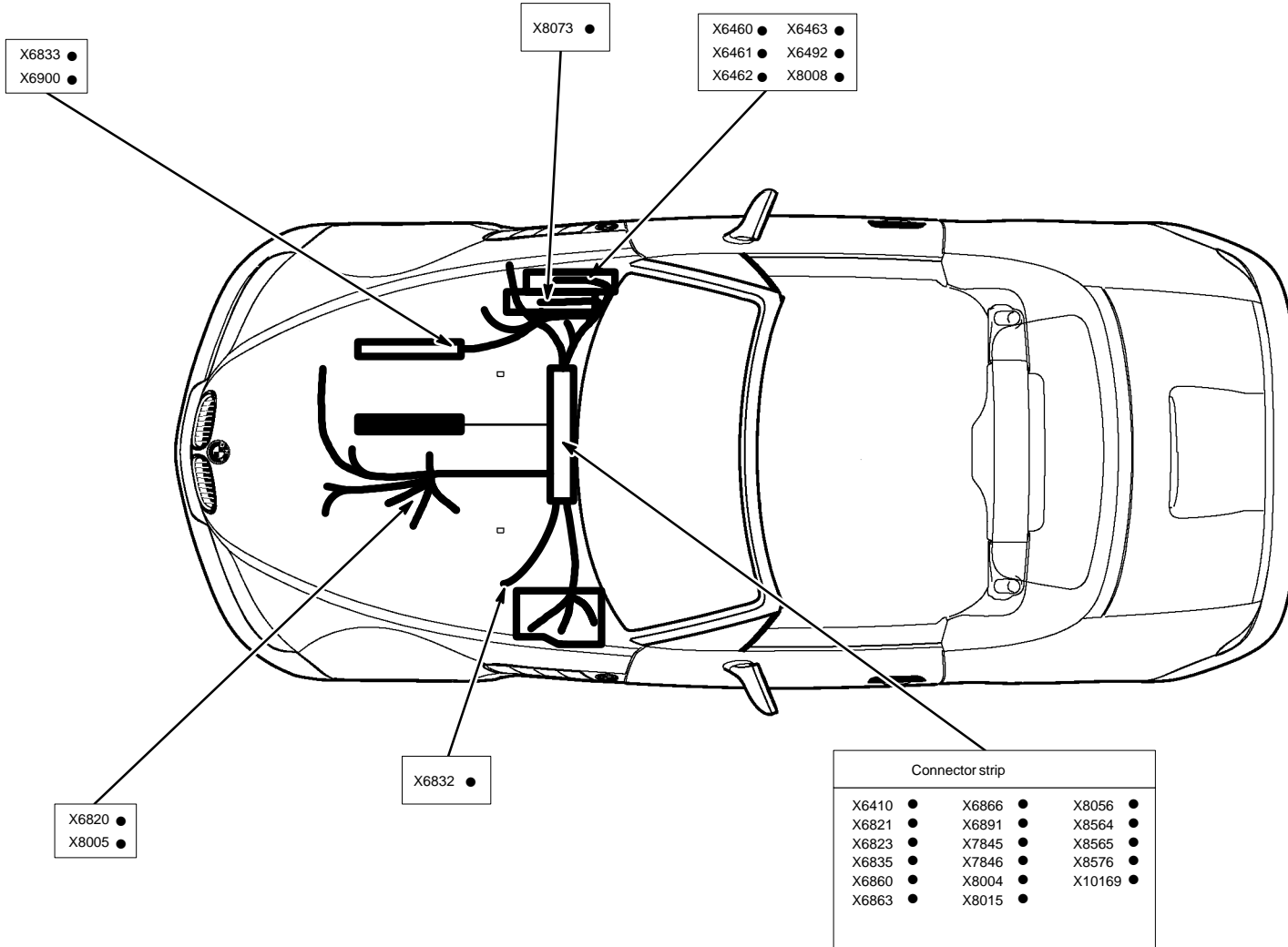
Connector location views (soldering spots and comb-type connectors)

Engine wire harness M43



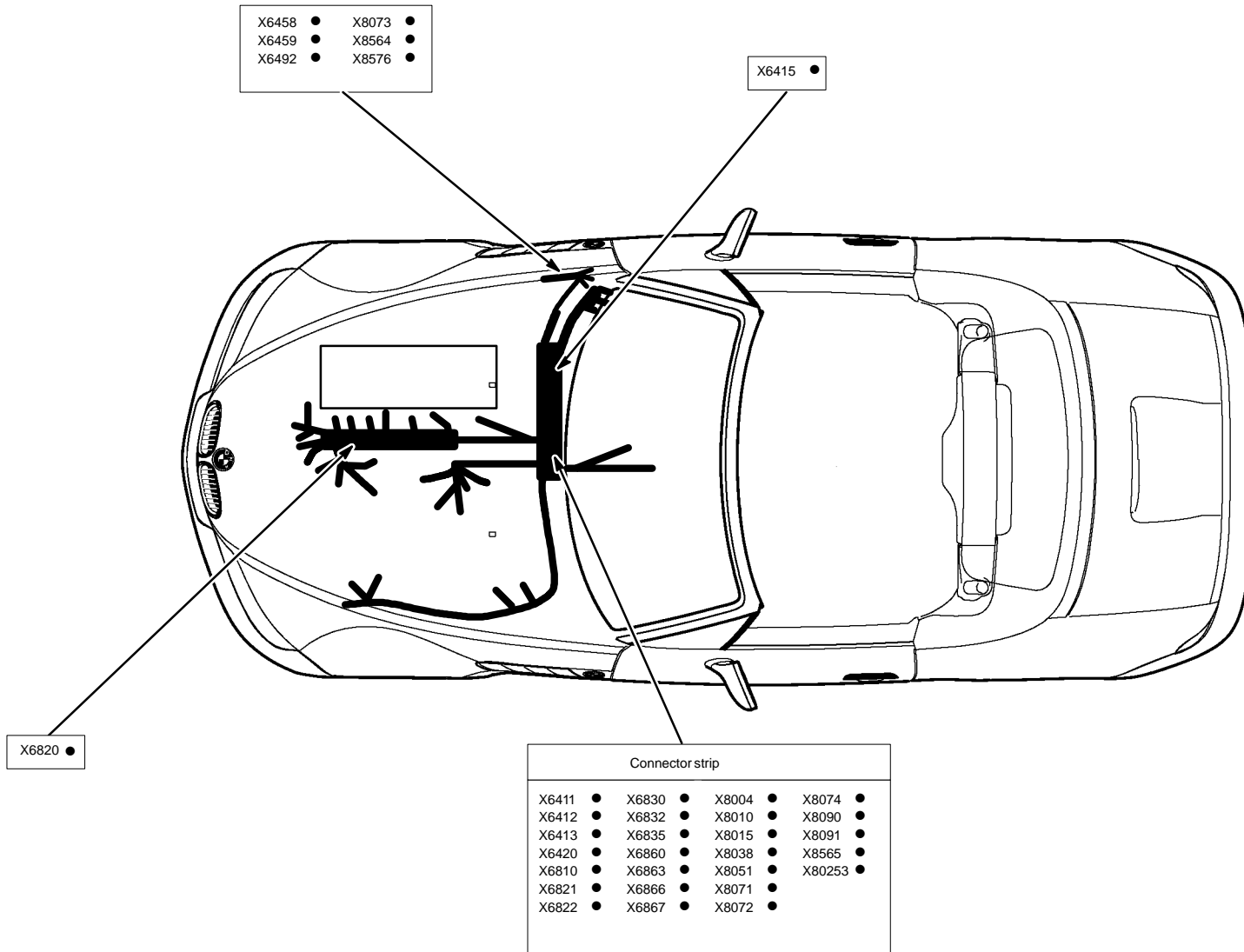
Connector location views (soldering spots and comb-type connectors)

Engine wire harness M44



Connector location views (soldering spots and comb-type connectors)

Engine harness M52



Connector location views (soldering spots and comb-type connectors)

Engine wire harness MSS50

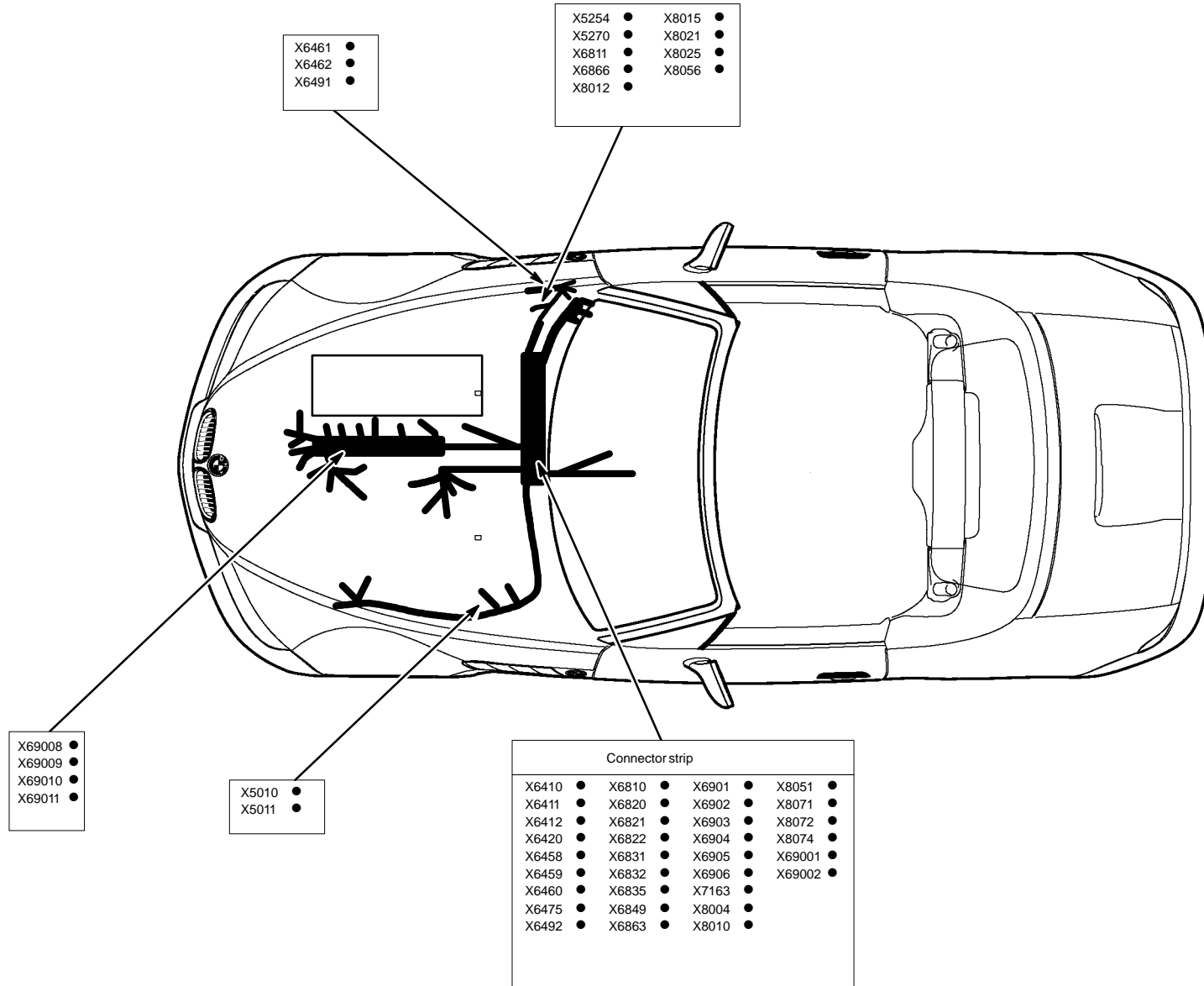


Fig. 1

B880001.00

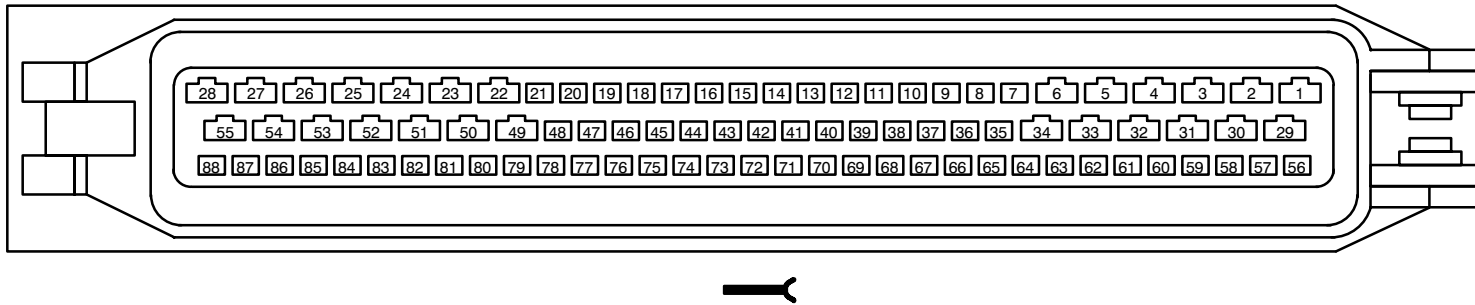


Fig. 2

B070013.00

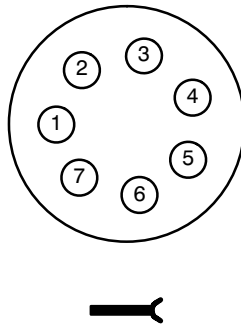
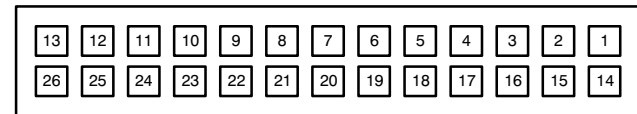


Fig. 3

B260005.00





Z3

Connector views

Fig. 1

B030024

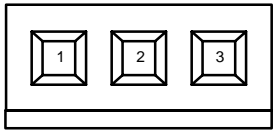


Fig. 2

B300005.00

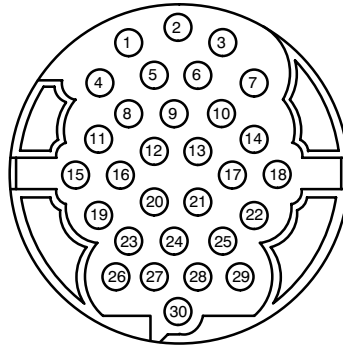


Fig. 3

B120001.00

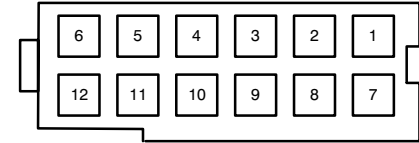


Fig. 4

B030036.01

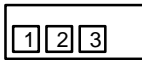


Fig. 5

B120002.02

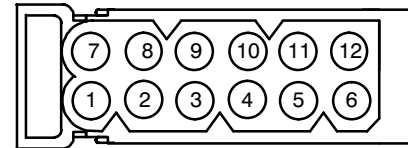


Fig. 1

B080002.00

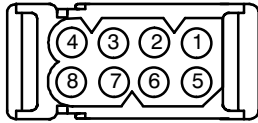


Fig. 2

B170001.00

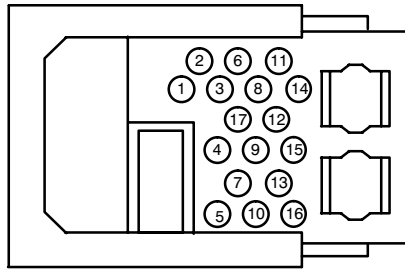


Fig. 3

B100008.00

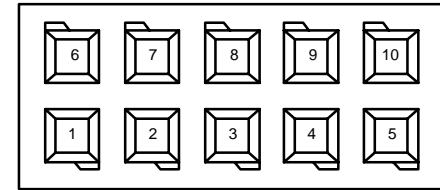


Fig. 4

B120004.01

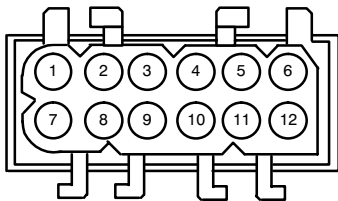


Fig. 5

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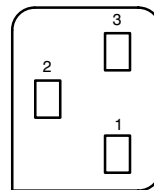


Fig. 6

B050003.00

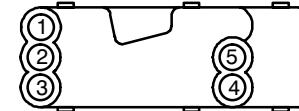


Fig. 1

B040004.00

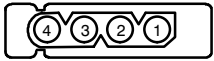


Fig. 2

B040018

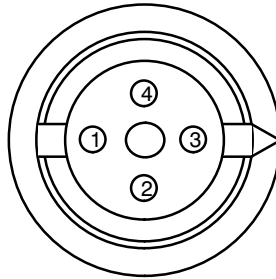


Fig. 3

B080001.00

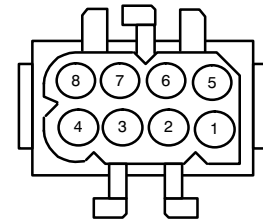


Fig. 4

B090002.00

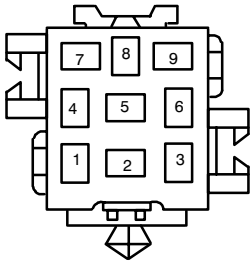


Fig. 5

B260002.01

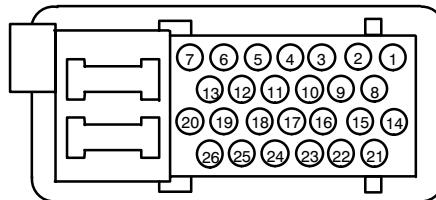


Fig. 6

B060001.02

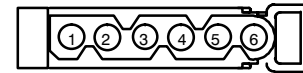


Fig. 1

B200003.00

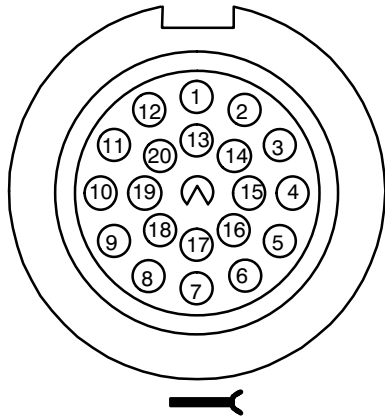


Fig. 2

B070005.00

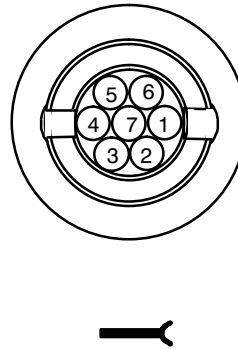


Fig. 3

B030003.00

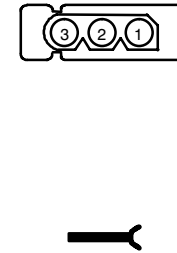


Fig. 4

B250001.02

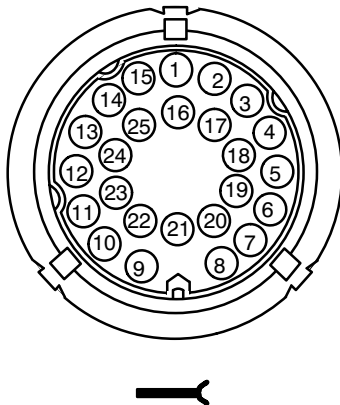


Fig. 5

B060019.03

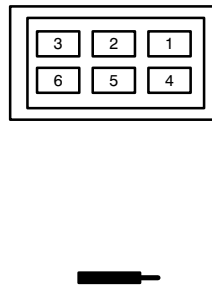
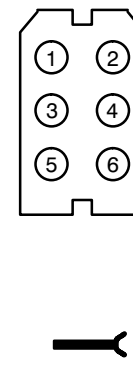


Fig. 6

B060045.00



Connector views

Fig. 1

B150002.00

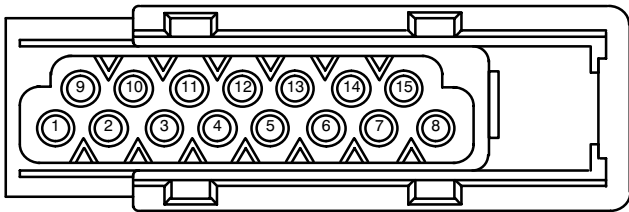


Fig. 2

B030034.00

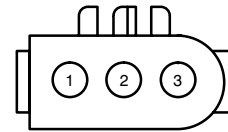


Fig. 3

B060038.00

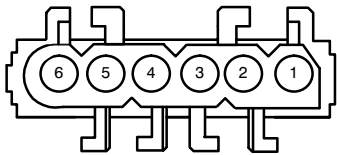


Fig. 4

B040027.00

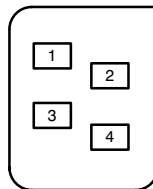


Fig. 5

B030006.00

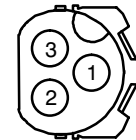


Fig. 1

B0400028.00

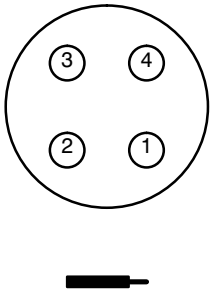


Fig. 2

B050005.00

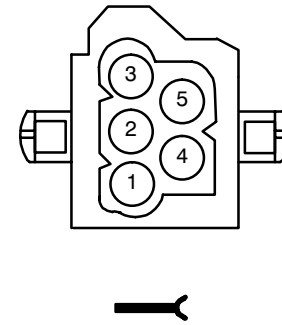


Fig. 3

B0300044.00

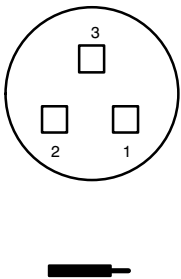


Fig. 4

B0300011.00

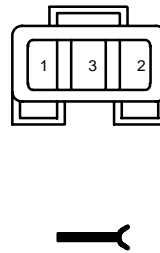


Fig. 5

B060041.00

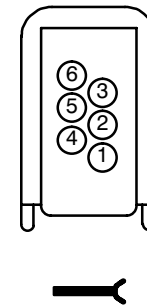


Fig. 1

B040026

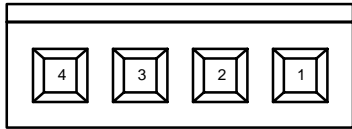


Fig. 2

B120006.00

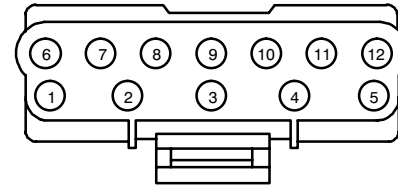


Fig. 3

B040003.00

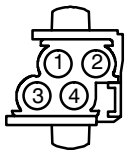


Fig. 4

B060037.00

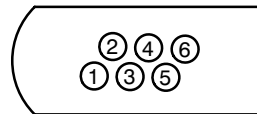


Fig. 5

B030042.00

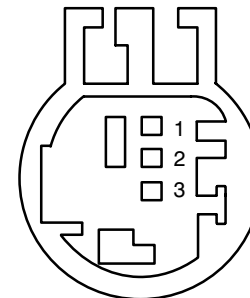


Fig. 1

B030009.00

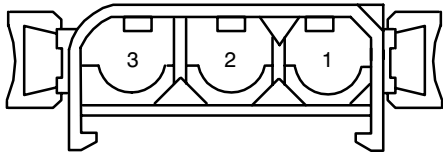


Fig. 2

B060013.00

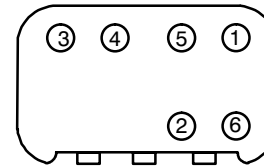


Fig. 3

B080013.00

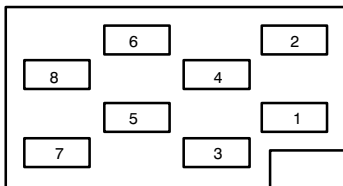


Fig. 4

B180000.00

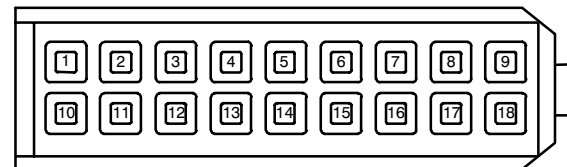


Fig. 1

B160001.00

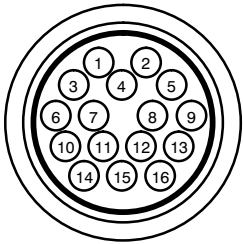


Fig. 2

B060043.00

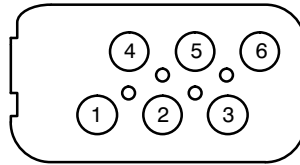


Fig. 3

B070012.00

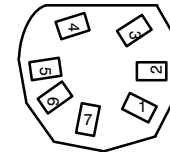


Fig. 4

B420000.00

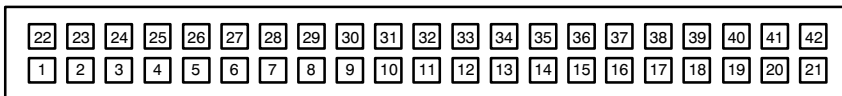
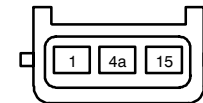


Fig. 5

B030015.08



Connector views

Fig. 1

B100001.00

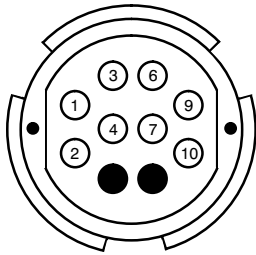


Fig. 2

B030018.02

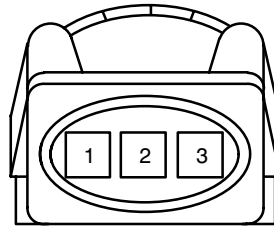


Fig. 3

B040023.02

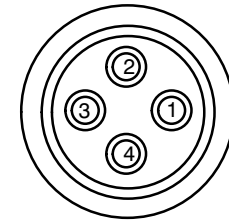


Fig. 4

B040023.01

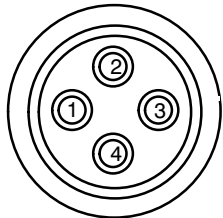


Fig. 5

B100012.00

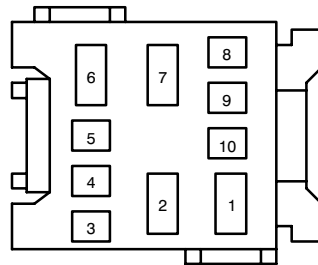
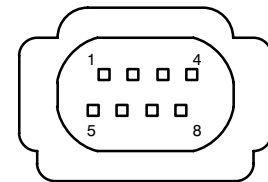


Fig. 6

B080020.00



Connector views

Fig. 1

B040029.00

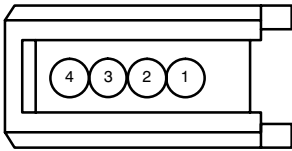


Fig. 2

B550002.00

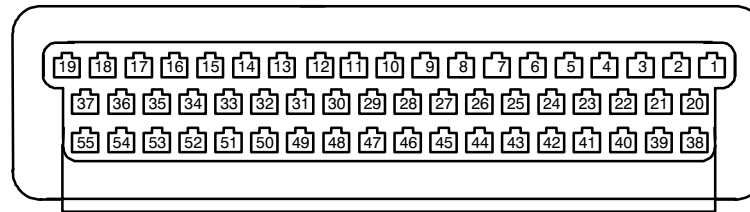


Fig. 3

B500000.00

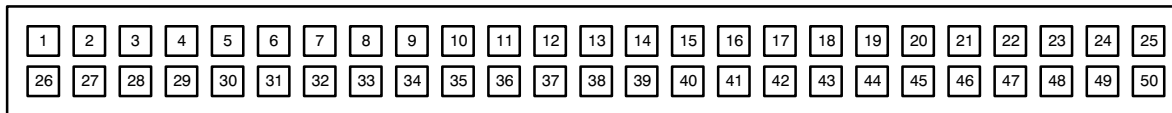


Fig. 1

B030023.00

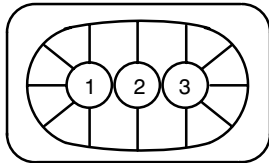


Fig. 2

B120015

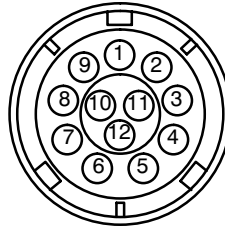


Fig. 3

B040030.00

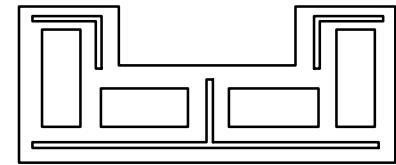


Fig. 4

B030046.00

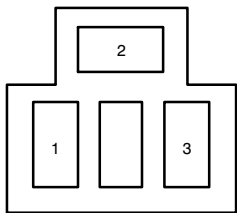


Fig. 5

B100004.02

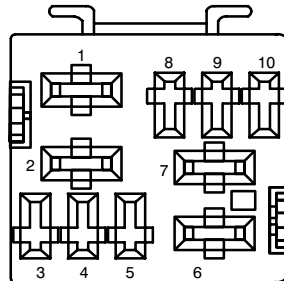
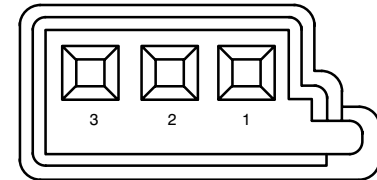


Fig. 6

B030022.00



Connector views

Fig. 1

B030048a

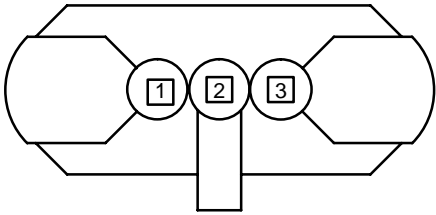


Fig. 2

B250004.00

