

VOLVO
for life



VOLVO
WIRING DIAGRAM S40 (04-)/V50

TP 3978202

2005

Frame contained PDF file, click [here](#) to view

List of components 1:4

1/1	Battery	3/173	Switch, trunk lid/tailgate private lock
2/16	Relay, rear window wiper	3/174	Switch, reduced alarm
2/17	Relay, horn	3/217	Belt buckle contact, left rear
2/22	Relay, climate control system	3/218	Belt buckle contact, center rear
2/23	Relay fuel pump	3/219	Belt buckle contact, right rear
2/32	Main relay, engine management system	3/254	Steering Wheel Module (SWM)
2/34	Relay, front fog lights	3/255	Position sensor, driver's seat
2/35	Relay, starter motor	3/256	Position sensor, passenger seat
2/63	Relay, high beam	3/258-3/265	Contact, locking
2/64	Relay, auxiliary light (accessory)	4/7	Control unit, telematics
2/80	Relay, reversing lights	4/9	Combustion Preheater Module (CPM)
2/82	Relay, heated rear window	4/16	Supplemental Restraint System Module (SRS)
2/89	Relay, interior lighting	4/28	Brake Control Module (BCM)
2/92	Relay, windshield washer motor	4/31	Transmission Control Module (TCM)
2/93	Relay, rear window washer motor	4/33	Fan control module
2/142	Relay, pre-heater, fuel filter	4/46	Sunroof control module
2/159	Relay, infotainment	4/46	Control module engine (ECM), 4-CYL
2/182	Relay, headlight washer motor	4/46	Control module engine (ECM), 5-CYL
2/192	Relay (230V) electric engine heater, 4-CYL	4/46	Control module engine (ECM), Turbo
2/192	Relay (230V) electric engine heater, 5-CYL	4/52	Engine Control Module (ECM), Diesel
2/193	Relay, comfort functions	4/56	Power Seat Module (PSM)
3/1	Ignition switch	4/71	Central Electronic Module (CEM)
3/4	Control unit, cruise control (SWS)	4/78	Cooling fan control module
3/6	Switch, hazard warning flashers	4/82	Accessory Electronic Module (AEM)
3/8	Switch, electrically heated rear window/rear-view mirrors	4/83	Differential Electronic Module (DEM)
3/9	Contact brake light	4/86	Control module fuel pump
3/10	Reversing light contact	4/93	Control module, Parking Assistance Module (PAM)
3/25	Switch, power sunroof	4/102	Keyless Vehicle Module (KVM)
3/26	Switch unit, power driver's seat	4/103	Steering Column Lock Module (SCL)
3/27	Switch unit, power passenger seat	4/103	Remote Entry (RRX)
3/35	Switch, handle trunk/tailgate	4/109	Remote Entry (RRX), Keyless vehicle
3/37	Contact horn	4/110	Glow plug control module
3/39	Contact clutch pedal, Gasoline	4/111	Trailer Module (TRM)
3/39	Contact clutch pedal, Diesel	4/112	Additive Dosing Module (ADM)
3/46	Seat contact, passenger seat	4/113	Control module, gas discharge lamp master, left
3/47	Parking brake contact	5/1	Control module, gas discharge lamp slave, right
3/60	Switch, auxiliary lights	6/1	Driver Information Module (DIM)
3/62	Hood alarm contact	6/2	Wiper Motor Module (WMM)
3/74	Lock unit, driver's door	6/16	Washer pump
3/75	Lock unit, passenger door	6/17	Motor driver's seat, backrest angle
3/76	Lock unit, left rear door	6/18	Motor driver's seat, up/down front edge
3/77	Lock unit, right rear door	6/19	Motor driver's seat, up/down rear edge
3/78	Lock unit, trunk lid/tailgate	6/20	Motor driver's seat, fore/aft
3/80	Switch, central locking driver's door	6/25	Motor passenger seat, fore/aft
3/81	Switch, power windows driver's door	6/26	Starter motor
3/82	Switch, central locking passenger door	6/28	Generator
3/83	Switch, power window passenger door	6/29	Motor, passenger compartment fan
3/85	Power window switch, left rear door	6/32	Motor, electric cooling fan
3/86	Power window switch, right rear door	6/33	Rear window wiper motor
3/93	Contact belt buckle, driver's seat	6/35	Fuel pump
3/94	Contact belt buckle, passenger seat	6/37	Fuel pump, auxiliary heater
3/95	Spin control switch	6/38	Lock motor, fuel filler flap
3/111	Switch unit, lights	6/39	Motor, left headlight adjustment
3/112	Climate Control Module (CCM)	6/48	Motor, right headlight adjustment
3/117	Switch unit, ceiling light	6/62	Damper motor, recirculation
3/126	Driver's Door Module (DDM)	6/63	Power rear-view mirror driver's door
3/127	Passenger Door Module (PDM)	6/64	Power rear-view mirror passenger door
3/128	Left Rear Door Module (LDM)	6/65	Motor passenger seat, backrest angle
3/129	Right Rear Door Module (RDM)	6/66	Motor passenger seat, up/down front edge
3/155	Program selector, automatic transmission	6/67	Motor passenger seat, up/down rear edge
3/156	Gear Selector Module (GSM)	6/71	Pump, fuel leakage control
3/157	Switch, Passenger Airbag Cut Off Switch (PACOS)	6/73	Electrical Power Steering Module (EPS)
		6/95	Coolant pump, auxiliary heater
		6/96	Damper motor, temperature, left-hand side
			Damper motor, temperature, right-hand side

List of components 2:4

6/99	Engine EGR	7/164	Body Sensor Cluster (BSC)
6/102	Damper motor, defroster	7/165	Pressure and temperature sensor, intake manifold
6/103	Damper motor, floor/ventilation		Position sensor camshaft, intake side
6/104	Pump, high pressure headlight washer	7/172	Position sensor camshaft, exhaust side
6/114	Vacuum pump	7/173	Front impact sensor, right
6/117	Interior temperature sensor	7/178	Front impact sensor, left
6/120	Engine throttle body	7/179	Remote control IR sensor, RTI
7/3	Temperature sensor battery	7/193	Position sensor turbo
7/4	Brake fluid level sensor	7/194	Sensor belt roller, driver
7/5	Washer fluid level sensor	7/195	Sensor belt roller, passenger
7/6	Oil pressure monitor, 4-CYL	7/204 -7/207	Sensor parking assistance 5-8
7/6	Oil pressure monitor, 5-CYL		
7/6	Oil pressure monitor, Turbo	8/3	Electromagnetic clutch, climate control system
7/6	Oil pressure monitor, Diesel	8/6-10	Injection valves
7/8	Pressure sensor, climate control system	8/18	EVAP valve
7/12	Solar sensor, twilight sensor and indicator alarm	8/19	Solenoid, variable valve timing, intake
7/15	Heated oxygen sensor, front	8/28	Turbocharger control valve
7/16	Sensor, coolant temperature	8/30	Igniter airbag, driver's side
7/17	Mass air flow sensor MAF, 5-CYL	8/31	Airbag igniter, passenger side
7/17	Mass air flow sensor MAF, Turbo	8/32	Igniter, airbag stage 2, passenger side
7/17	Mass airflow sensor MAF, Diesel	8/33	Igniter, belt tensioner, driver's side
7/24	Knock sensor front, 4-CYL	8/34	Igniter, belt tensioner, passenger side
7/24	Knock sensor front, 5-CYL	8/36	Solenoid shift lock
7/24	Knock sensor front, Turbo	8/37	Automatic transmission
7/25	Impulse sensor, 4-CYL	8/38	Shift solenoid 1
7/25	Impulse sensor, 5-CYL	8/39	Shift solenoid 2
7/25	Impulse sensor, Turbo	8/40	Lock-up solenoid
7/25	Impulse sensor, Diesel	8/41	Pressure solenoid
7/31	Sensor ABS, front left	8/48	Auto-dimming rearview mirror
7/32	Sensor ABS, front right	8/51	Igniter side airbag, driver's side
7/41	Temperature sensor evaporator	8/52	Igniter side airbag, passenger side
7/51	Accelerator pedal sensor	8/55	Igniter, left rear belt tensioner
7/56	Sensor ABS, rear left	8/56	Igniter, right rear belt tensioner
7/57	Sensor ABS, rear right	8/61	Igniter airbag, driver's side, stage 2
7/61	Sensor input speed	8/66	Igniter, left inflatable curtain
7/62	Sensor output speed	8/67	Igniter, right inflatable curtain
7/69	Sensor outdoor temperature	8/68	Bypass valve
7/71	Sensor boost pressure	8/71	Throttle solenoid
7/74	Sensor oil temperature, automatic transmission	8/72	Shift solenoid 3
7/77	Temperature sensor, intake air 1	8/73	Shift solenoid 4
7/77	Temperature sensor, intake air 2	8/74	Shift solenoid 5
7/81	Pressure sensor, intake manifold	8/77	Control valve fuel volume
7/82	Heated oxygen sensor, rear	8/81	Solenoid, variable valve timing outlet
7/93	Occupant Weight Sensor (OWS)	8/82	Solenoid, variable turbo geometry
7/100	Level sensor alarm, S40	8/84	Switch, vacuum pump
7/100	Level sensor alarm, V50	8/92	Lap belt tensioner, driver
7/108	Side impact sensor, rear left	8/99	Igniter, steering column
7/109	Side impact sensor, rear right	8/119	Pressure monitor, climate control system
7/110	Sensor temperature driver's seat	8/120	EGR valve
7/111	Sensor temperature passenger seat	8/120	EGR valve, Diesel
7/115	Side impact sensor, front left	8/121	Valve coolant
7/116	Side impact sensor, front right	8/127	Pressure switch, climate control system
7/120	Angle sensor, Bi-Xenon rear	8/128	Driver's belt force limiter
7/121	Angle sensor, Bi-Xenon front	8/129	Passenger belt force limiter
7/122	Mass movement sensor, front	8/131	Shut-off valve, expansion tank
7/123	Sensor clutch pedal, Gasoline	8/132	Control valve inlet
7/123	Sensor clutch pedal, Diesel	8/133	Control valve fuel pressure
7/124	Sensor brake pedal	8/134	Solenoid, reverse interlock, manual
7/131-7/134	Sensor parking assistance 1-4	9/1	Front 12V outlet
7/143	Sensor fuel level, pump side	9/2	Heated rear window
7/149	Rain Sensor Module (RSM)	9/12	Seat Heater Module (SHM), driver's side
7/154	Sensor fuel temperature	9/13	Seat Heater Module (SHM), passenger side
7/156	Pressure and temperature sensor fuel, 5-CYL	9/16	Heating coil, backrest driver's seat
7/156	Pressure and temperature sensor fuel, Turbo	9/17	Heating coil, backrest passenger seat
7/158	Mass movement sensor rear	9/18	Heating coil, seat cushion driver's seat
7/159	Air quality sensor	9/19	Heating coil, seat cushion passenger seat
7/162	Pressure sensor, fuel line	9/25	Rear 12V outlet

List of components 3:4

9/30	Auxiliary heater	16/26	Speaker, dashboard middle, RTI
9/32	PTC resistor, oil trap	16/35	Siren (SCM), S40
9/33	Electrically heated rear-view mirror, driver's door	16/35	Siren (SCM), V50
9/34	Electrically heated rear-view mirror, passenger door	16/46	RTI Display
9/38	Electrically heated fuel filter	16/49	GPS antenna RTI
9/41	PTC-element	16/55	Traffic Message Channel Module (TMC)
		16/56	Treble speaker, driver's door
		16/60	Treble speaker, passenger door
10/1	Lamp housing, front left	16/62	Phone Module (PHM)
10/2	Lamp housing, front right	16/64	Hand unit, cellular phone
10/3	License plate lighting	16/79	Antenna, cellular phone
10/5	Fog light, front left	16/93	Subwoofer Module (SUB)
10/6	Fog light, front right	16/94	Control module, cellular phone handsfree
10/11	Running/parking light, front left	16/98	AM/FM Tuner Module (AFM)
10/12	Running/parking light, front right	16/105	Microphone
10/13	Direction indicator, front left	16/107	Audio Module (AUD)
10/14	Direction indicator, front right	16/108	Media Player Module (MPM)
10/15	Direction indicator, rear-view mirror driver's door	16/126	Multimedia Module (MMM)
10/16	Direction indicator, rear-view mirror passenger door	16/127	Holder, handsfree cellular phone
10/17	Lamp housing, rear right	16/128-16/131	Microphone, handsfree cellular phone
10/18	Lamp housing, rear left	16/132	Antenna door lock front
10/19	Brake light extra	16/133	Antenna door lock cargo compartment
10/22	Ceiling light	16/134	Antenna door lock cabin 1 rear
10/24	Cargo compartment lighting	16/135	Antenna door lock cabin 2
10/25	Ceiling light, cargo compartment	16/136	Antenna door lock cabin 3
10/29	Glove compartment lighting	16/137	Treble speaker, left rear door
10/43	Brake light, right	16/138	Treble speaker, right rear door
10/44	Tail light 1, right	16/139	Rear window antenna, right
10/45	Tail light 2, right	16/140	Global Positioning System Module (GPS)
10/46	Fog light, right rear	16/141	SIM card reader
10/47	Direction indicator, right rear	16/142	Interference filter, rear window, left
10/48	Reversing light, right	17/13	Interference filter, rear window, right
10/50	Brake light, left	17/19	Data link connector
10/51	Tail light 1, left	17/37	12V outlet, cargo compartment
10/52	Tail light 2, left	17/38	4-pin outlet, tow hitch cable harness
10/53	Fog light, left rear	17/39	7-pin outlet, tow hitch cable harness
10/54	Direction indicator, left rear	18/4	13-pin outlet, tow hitch cable harness
10/55	Reversing light, left		Contact reel
10/64	High beam, right	20/3-7	Spark plug and ignition coil
10/65	Auxiliary light, front right	20/22-25	Glow plug
10/66	Low beam, right	31/3	Ground connection, Left strut tower
10/68	High beam, left	31/4	Ground connection, Engine
10/69	Auxiliary light, front left	31/6	Ground connection, A-pillar driver side
10/70	Low beam, left	31/10	Ground connection, A-pillar passenger side
10/97	Courtesy lighting, left	31/11	Ground connection, Left side rear, S40
10/102	Courtesy lighting, right	31/11	Ground connection, Left side rear, V50
10/114	Vanity mirror lighting, left	31/12	Ground connection, Right side rear, S40
10/115	Vanity mirror lighting, right	31/12	Ground connection, Right side rear, V50
10/148	Lighting, rear-view mirror driver's door	31/52	Ground connection, Left strut tower
10/149	Lighting, rear-view mirror passenger door	31/66	Ground connection, Left B-pillar
10/150	Rear reading light	31/67	Ground connection, Right B-pillar
11/1	Suspended fuse (cargo compartment)	31/80	Ground connection, Left strut tower
		31/83	Ground connection, A-pillar driver side
15/31	Distribution box in engine compartment	31/84	Ground connection, A-pillar passenger side
		31/88	Ground connection, Engine
16/1	Infotainment Control Module (ICM)	31/89	Ground connection, Engine
16/3	Speaker, passenger door	31/102	Ground connection, Frame member, Gasoline
16/4	Speaker, driver's door	31/102	Ground connection, Frame member, Diesel
16/5	Speaker, right rear door	31/110	Ground connection, Right strut tower
16/6	Speaker, left rear door	31/112	Ground connection, Right strut tower
16/9	Window antenna	31/114	Ground connection, Left strut tower
16/10	Horn 1	31/115	Ground connection, Left A-pillar
16/11	Horn 2	31/116	Ground connection, Right A-pillar
16/16	Window antenna amplifier	31/119	Ground connection, Left strut tower
16/26	Speaker, dashboard middle		

List of components 4:4

63/no.	Branching point	64/600	Connector
64/12	Connector	64/814	Connector
64/18	Connector	64/815	Connector
64/25G	Connector	64/816	Connector
64/30	Connector	64/817	Connector
64/31	Connector	64/861	Connector
64/34	Connector	64/862	Connector
64/40	Connector	64/977A	Connector
64/41	Connector	64/978	Connector
64/43	Connector	64/979	Connector
64/45	Connector	64/979G	Connector
64/47	Connector	F/no.	Fuse
64/48	Connector S40	F/no.	Fuse
64/48	Connector V50	FH/no.	Fuse in holder
64/50	Connector	PF/no.	Main fuse by battery
64/51	Connector	R/no.	Relay
64/79V	Connector	R/no.	Relay
64/81	Connector	R/no.	Relay
64/90	Connector		
64/111	Connector	10X/17	Connector interface, original car
64/112	Connector	10X/18	Connector interface, original car
64/113	Connector	16X/105	Connector interface, original car
64/322	Connector	17X/19	Connector interface, original car
64/425	Connector	64X/12	Connector interface, original car
64/545	Connector	64X/322	Connector interface, original car
64/599	Connector		

Vehicles with SRS (Airbag)/SIPS bag/ IC (Inflatable Curtain)

Warning!

Extra caution must be exercised when working on vehicles equipped with SRS/SIPS bag/IC in order to avoid:

1. Personal injuries when performing repair work.
2. Damage or malfunction of the SRS/SIPS bag/IC system.

Work involving the SRS/SIPS bag/IC systems or other components in the vehicle that may affect the SRS/SIPS bag/IC systems must always be performed by an authorized Volvo workshop.

In case of doubt, consult the SRS and SIPS bag/IC service manual.

Is the vehicle equipped with SRS/SIPS bag/IC ?

Vehicles with SRS are most easily recognized by the letters SRS in the center of the steering wheel. If the vehicle also has a passenger side airbag, the letters SRS are stamped on the dashboard above the glove compartment. SRS vehicles from 1993 and onward also have explosive seat belt tensioners. SIPS bags are only installed on SRS vehicles from 1995 and onward. SIPS bag decals are located on the windshield and seat compartment. Vehicles with IC can be recognized by the letters IC on the C/D panel (4 door) or the B panel (5 door).

General recommendations

- Be especially careful when working on or around SRS, SIPS, and IC components.
- Make sure that no wires are pinched, frayed, or pierced.
- Never install accessories by the sensors.
- Where applicable, work on the steering wheel, steering shaft, or steering gear must be done in accordance with the methods in the SRS section of VADIS.
- Certain components of the aforementioned systems must be grounded while working. Read the appropriate sections in VADIS.
- Install no accessories in the areas between the A and B posts, the B and C posts, and the C and D posts.

Test terminal

Data link connector in the passenger compartment.

Changes introduced up to and incl. June 2004

Any changes made to the vehicles after this date are not included in the manual. If necessary refer to service bulletins.

Volvo models are sold in versions adapted for different markets. These adaptations depend on factors such as legal requirements, taxation, and market demands.

This manual may therefore include illustrations and text that do not apply to

Order number TP 3978202

Replaces earlier publication 3978201 on Electronic Wiring Diagram (EWD) TP 3978001
With reservation for changes

Table of Contents 1:2

Vehicles with SRS (Airbag)/SIPS bag/ IC (Inflatable Curtain).....	2
Abbreviations	5
How to use the wiring diagrams 1:2.....	6
Electrical distribution 1:2.....	8
Relays	
Ignition switch and relays.....	10
Distribution box in engine compartment R1-R14	11
Central Electronic Module (CEM) R15-R18	12
Relays - soldered.....	13
Fuses	
Engine compartment distribution box F1-F8	14
Engine compartment distribution box F9-F18	15
Engine compartment distribution box F20-F32	16
Engine compartment distribution box F33-FH1	17
Central Electronic Module (CEM) F43-F52.....	18
Central Electronic Module (CEM) F53-F66.....	19
Central Electronic Module (CEM) F68-F86.....	20
Battery, PF1-PF2.....	21
Ground connections	
Overview.....	22
31/3 - 31/10	23
31/11 - 31/66	24
31/67 - 31/84	25
31/88 - 31/114	26
31/115 - Ground connections in chassis.....	27
Control modules	
Overview of locations.....	28
Overview of designations.....	29
Central Electronic Module (CEM) 1:2	30
Data communication Low speed CAN 1:2	32
Data communication LIN 1:2	34
Data communication High speed CAN	36
Data communication MOST	37
Start Control Module (SCU).....	38
Accessory Electronic Module (AEM)	39
Group 23 Fuel system	
Engine management system, 4-cyl 1.8l 1:2.....	40
Engine management system, 5-cyl 1:2.....	42
Engine management system, 5-cyl Turbo 1:2	44
Engine management system Diesel 1:2	46
Emission control 4-cyl 1.8l.....	48
Emission control, 5-cyl.....	49
Emission control, 5-cyl Turbo	50
Group 26 Cooling system	
Cooling fan.....	51
Cooling fan Diesel.....	52
Group 27 Engine control	
Cruise control.....	53
Cruise control, Diesel.....	54
Group 32 Alternator and voltage regulator	
Power supply	55
Power supply, Diesel	56
Group 33 Starting system	
Starting system	57
Starting system, Diesel	58
Group 35 Lighting	
High and low beam	59
High and low beam (Bi-Xenon)	60
Manual beam length adjustment.....	61
Automatic head light leveling (Bi-Xenon)	62
Running/Parking lights, Tail lights	63
Running/Parking lights, Tail lights (Bi-Xenon)	64
Fog lights	65
Fog lights LHD, Japan	66
Brake lights	67
Reversing lights	68
Follow-me-home lighting	69
Interior lighting 1:2	70
Instrument and control illumination	72
Auxiliary light.....	73
Group 36 Additional electrical equipment	
Rain Sensor	74
Direction indicators and flashing hazard lights	75
Direction indicators and flashing hazard lights (Bi-Xenon)	76
Windshield wiper/washer	77
Headlight washer	78
Wiper/washer, rear window	79
Horn	80
Immobilizer/Control module steering column lock (SCL)	81
Keyless Vehicle 1:2	82
Parking assistance, rear	85
Parking assistance, front.....	86
Accessory Electronic Module (AEM).....	87
Group 37 Wiring and fuses	
Diagnostics system	88
12V outlet.....	89
Tow hitch cable harness, 4-pin	90
Towbar cable harness, 7-pin.....	91
Towbar cable harness, 13-pin	92
Group 38 Instruments	
Seat belt reminder	93
Driver information module.....	94
Group 39 Other	
Multimedia & Traffic information	95
Audio 1:2	96
Cellular phone 1:2	98
Subwoofer	100
Handsfree	101

Table of Contents 2:2

Group 43 Transmission	
Automatic transmission AW55-51.....	102
Shift interlock	103
Transmission M66	104
Group 59 Brake system	
Brake control system	105
Brake control system & STC.....	106
Brake control system & DSTC	107
Group 64 Steering	
Electronic power steering	108
Group 83 Doors and openings	
Central locking, front doors.....	109
Central locking, rear doors.....	110
Central locking, trunk lid/tailgate.....	111
Child safety lock.....	112
Central locking, fuel filler flap.....	113
Signal receiver, remote-control, central locking.....	114
Power windows, front doors.....	115
Power windows, rear doors	116
Power sunroof.....	117
Group 84 Exterior decorative elements, etc.	
Power door mirrors	118
Heated door mirrors.....	119
Heated rear window.....	120
Group 85 Interior equipment	
Power driver's seat with memory function, LHD	121
Power driver's seat with memory function, RHD	122
Power driver's seat	123
Power passenger seat.....	124
Heated seats.....	125
Group 87 Climate controls	
Climate control system 4-cyl 1.8I 1:2	126
Climate control system 1:2.....	128
Climate control system Diesel 1:2.....	130
Climate control system PTC element	132
Parking heater, auxiliary heater	133
Relay, electric engine heater	134
Group 88 Internal equipment	
Auto-dimming rear-view mirror	135
Supplemental Restraint System (SRS) 1:2.....	136
Connectors.....	138
Branching points	160
Cable harnesses' routing in the vehicle	
Harness engine, Gasoline 4-cyl	169
Harness engine, Gasoline 5-cyl.....	169
Harness engine, Gasoline 5-cyl, Turbo.....	170
Harness engine, Diesel.....	170
Harness engine compartment, 4-cyl	171
Harness engine compartment, 5-cyl & Turbo	171
Harness engine compartment, Diesel.....	172
Harness Dashboard	172
Harness Infotainment.....	173
Harness Floor S40	174
Harness Floor V50	175
Harness Ceiling S40	176
Harness Ceiling V50	176
Harness Tunnel	177
Harness Driver door	178
Harness Passenger door	178
Harness Rear door, right.....	179
Harness Rear door, left.....	179
Harness Trunk, S40	180
Harness Tailgate, V50	180
Component illustrations	181
Index	224
List of components 1:4	

Explanations

Abbreviations

Groups

Group 23	= Fuel system
Group 26	= Cooling system
Group 27	= Engine controls
Group 32	= Alternator and voltage regulator
Group 33	= Starting system
Group 35	= Lighting
Group 36	= Additional electrical equipment
Group 37	= Wiring and fuses
Group 38	= Instruments
Group 39	= Other
Group 43	= Transmission
Group 59	= Brake system
Group 64	= Steering
Group 83	= Doors and openings
Group 84	= Exterior decorative elements, etc.
Group 85	= Interior equipment
Group 87	= Climate controls
Group 88	= Internal equipment

Ignition switch symbols

X	= Accessories (audio position)
S	= Powered upon insertion of key
15	= Contact remains connected during start
15I	= Contact is broken while starting
30	= Constant power from the battery
50	= Start

Countries/Markets

A	= Austria
AUS	= Australia
B	= Belgium
CDN	= Canada
CH	= Switzerland
D	= Germany
DK	= Denmark
E	= Spain
EU/OS	= Markets outside USA and Canada
FIN	= Finland
GB	= Great Britain
ISR	= Israel
Y	= Japan
KOR	= Korea
N	= Norway
NL	= Netherlands
S	= Sweden
USA	= United States of America
WEU	= Western Europe

Other

AUTO	= Automatic transmission
AWD	= Four-wheel drive
CAN	= CAN communication
DIESEL	= Diesel
DPY	= Display
ECC	= Electronic climate control system
ETA	= Engine throttle body
EXT. X	= Extended X-feed
GDL	= Gas discharge lamp
HISPEED	= High speed data bus
IR	= IR sensor
LIN	= LIN communication
LHD	= Left-hand drive
LOSPEED	= Low speed data bus
MAN	= Manual transmission
MEMORY	= Memory driver seat
MMS	= Mass Movement Sensor
GASOLINE	= Gasoline
RHD	= Right-hand drive
SCR	= Screen
SRS	= Airbag
T	= Turbocharged engine
W/O	= Without
2WD	= Two-wheel drive
4CYL	= 4-cylinder engine
5CYL	= 5-cylinder engine

Colors

BK, SB	= Black
BN	= Brown
BU, BL	= Blue
GN	= Green
GY, GR	= Gray
LGN	= Light Green
OG, OR	= Orange
PK, P	= Pink
RD, R	= Red
VT, VO	= Violet
WH, W	= White
YE, Y	= Yellow

How to use the wiring diagrams 1:2

The descriptions below apply in general to all wiring diagram manuals, although not all sections are necessarily contained in this manual.

A. Component designation

Every component has a component designation that consists of two parts.

The first part is a type number that describes the type of component in question, for example 3/xx.

The second part of the designation is a serial number, for example. x/2.

Together, this constitutes a component designation, for example 3/2.

At the end of the manual is a list of components, where, with the help of the component designation, you can read off the name of the component, for example, 3/2 = light switch.

List of type numbers

The list shows which type of component that respective type numbers refer to, for example, 3/x = switch, 6/x = electric motor, etc.

- | | |
|----|----------------------------------|
| 1 | Battery |
| 2 | Relay |
| 3 | Switch |
| 4 | Control module |
| 5 | Driver information module |
| 6 | Electric motor |
| 7 | Sensor |
| 8 | Actuator |
| 9 | Heating element |
| 10 | Lamp |
| 11 | Fuse |
| 15 | Electrical distribution rail/box |
| 16 | Audio |
| 17 | Service/diagnostics |
| 18 | Contact reel |
| 19 | Meter |
| 20 | Ignition component/shunt |
| 27 | Optics |
| 31 | Ground connection |
| 63 | Branching point |
| 64 | Connector |

B. Branching points

The wiring diagrams contain numbered branching points, for example 63/352.

This manual contains a section with a list of branching points. This list shows all the components that are connected to each branching point.

The location of the branching points is shown in the "Cable harness routing in vehicle" section.

C. Connectors

Connectors provide a bridge between two cable harnesses and are described in the "Connectors" section.

D: Electrical distribution

Operation of the fuses and relays is shown in the "Electrical distribution" section.

E. Data communication

Today's cars contain CAN and MOST networks that transfer information. Connections to these networks are not shown in their entirety in the respective wiring diagram. Complete information on CAN and MOST communication is found in the section "Control modules".

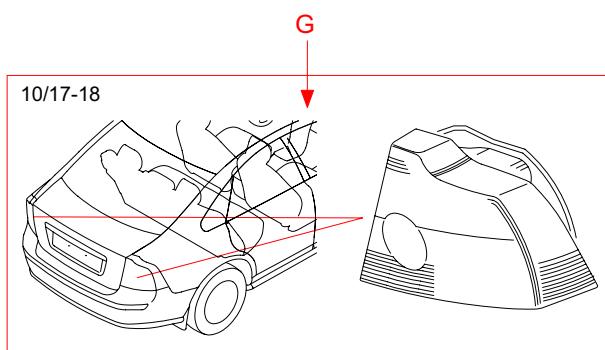
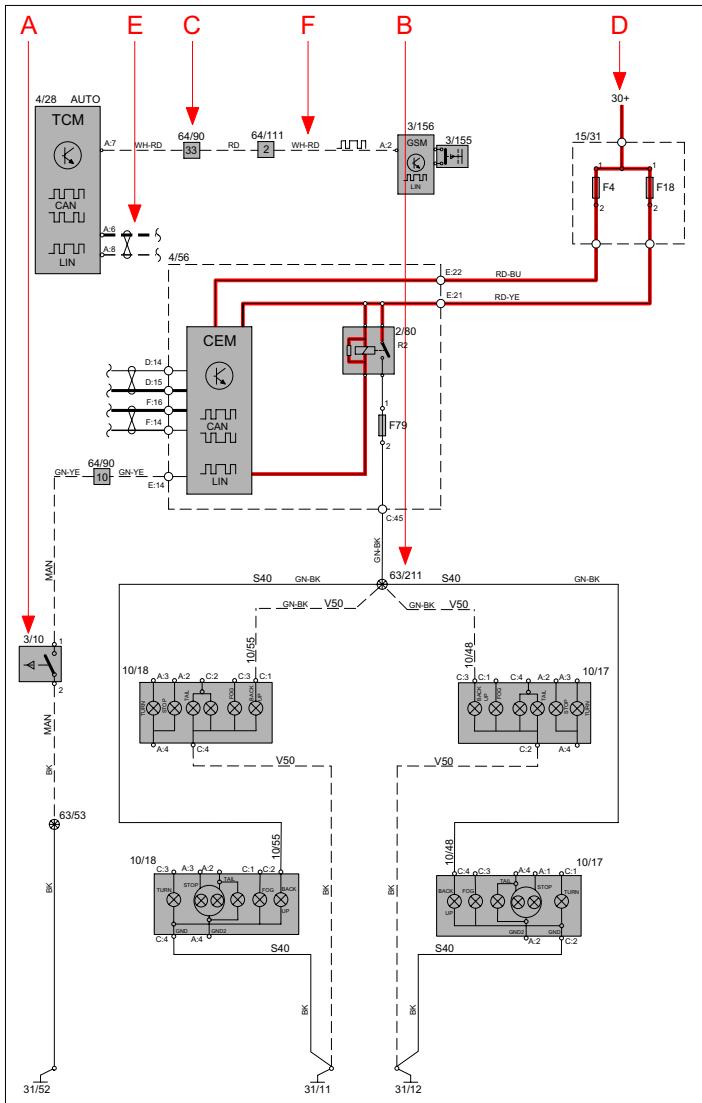
F. Abbreviations

A number of different abbreviations are used in the manual. These are explained in the section "Abbreviations".

G. Component location

There is a section at the end of the manual in which the appearance and location of components is described in numerical order.

How to use the wiring diagrams 2:2

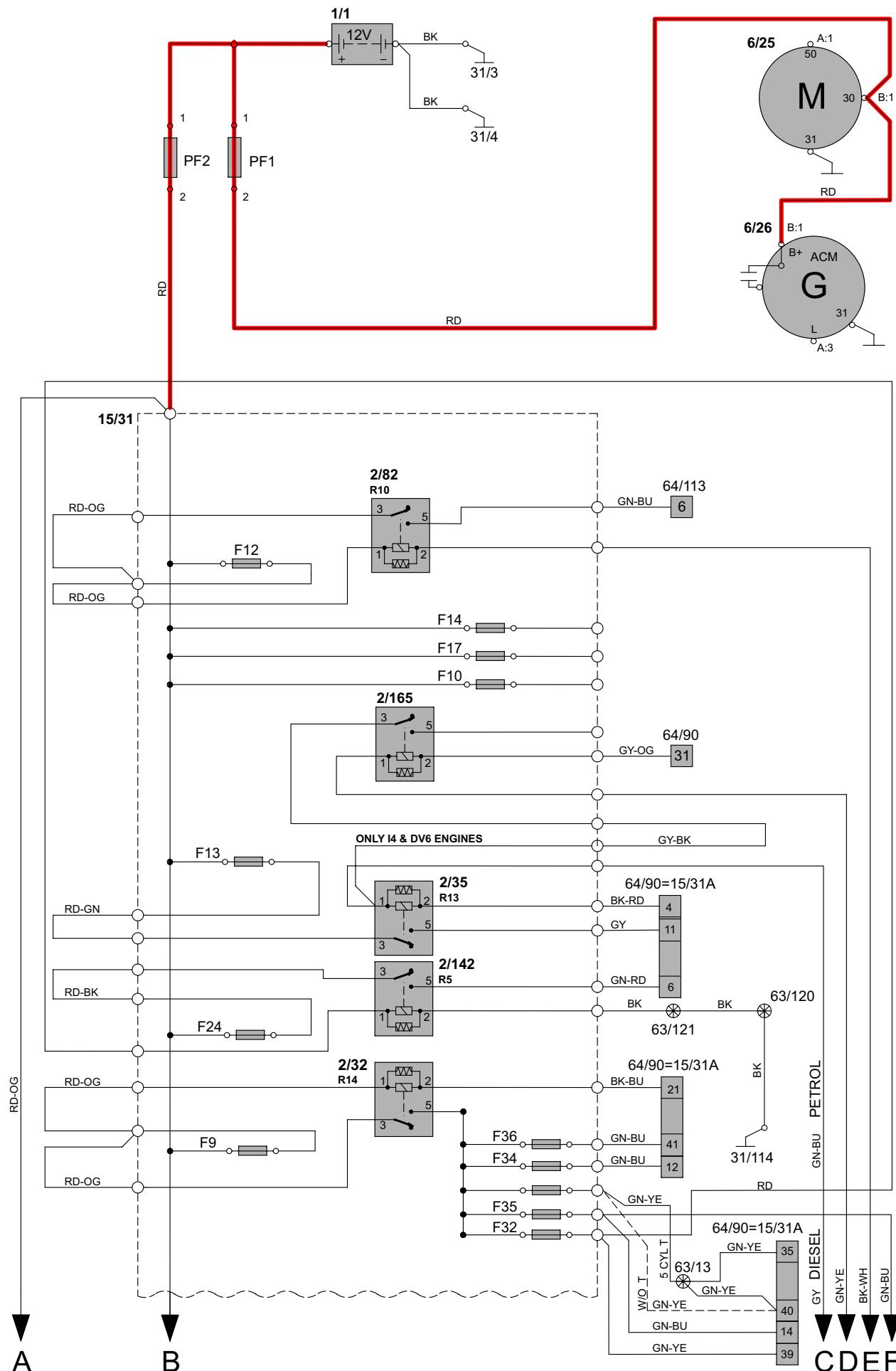


List of symbols

- = System voltage
- = Ground connection via wiring
- = Ground connection on component/chassis
- = Screened wire
- = Branching point
- = Twisted cable
- = Electrical connection
- = Variant
- = CAN communication
- = CAN high data signal (CAN H)
- = CAN low data signal (CAN L)
- = MOST communication
- = LIN communication
- = DIN cable, coaxial cable, etc.
- = Data communication
- = CAN communication
- = Connection with distribution box
- = Further connection to...
- = Connector between cable harnesses
- = Connector connected to component

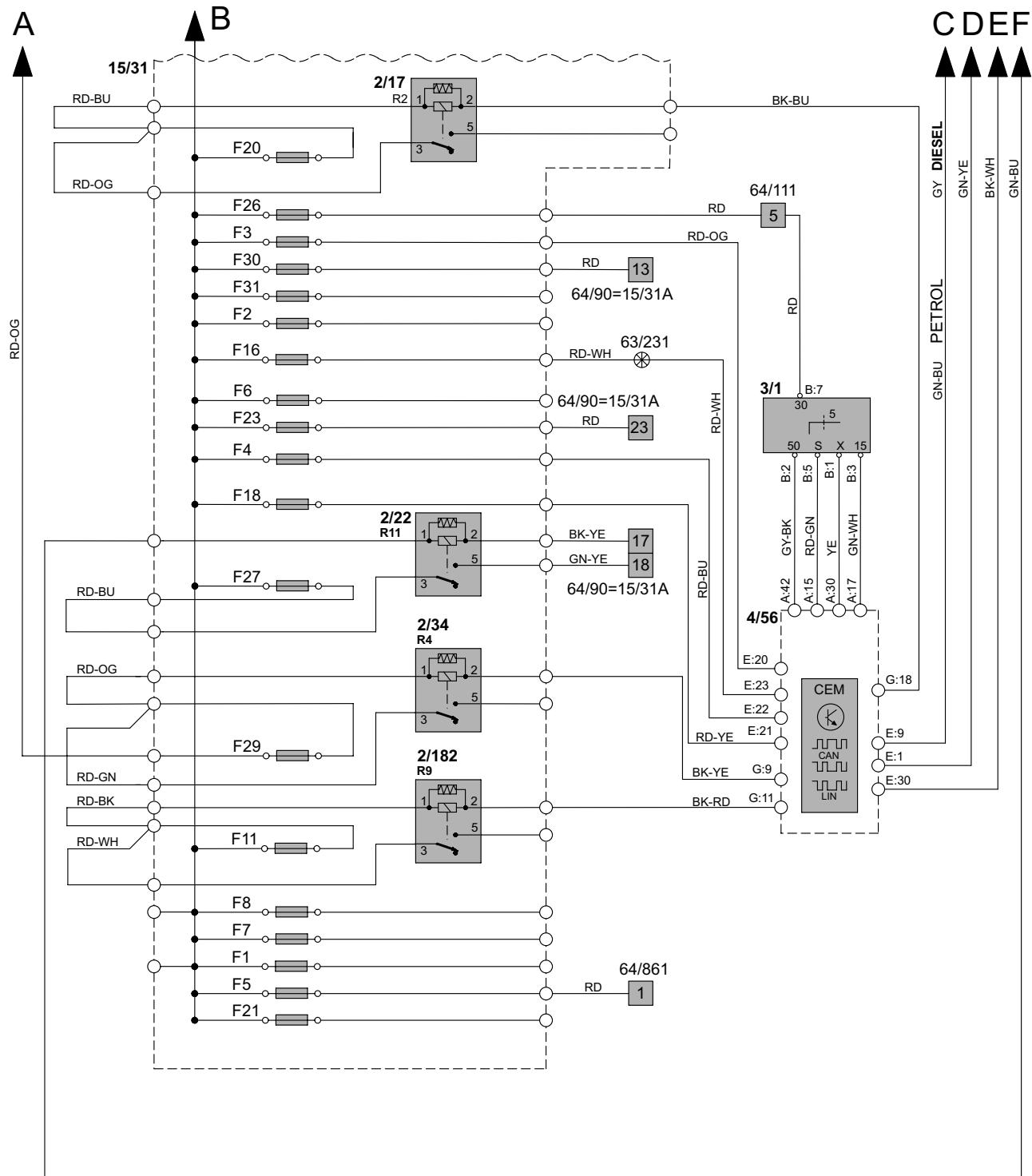
Electrical distribution 1:2

Overview



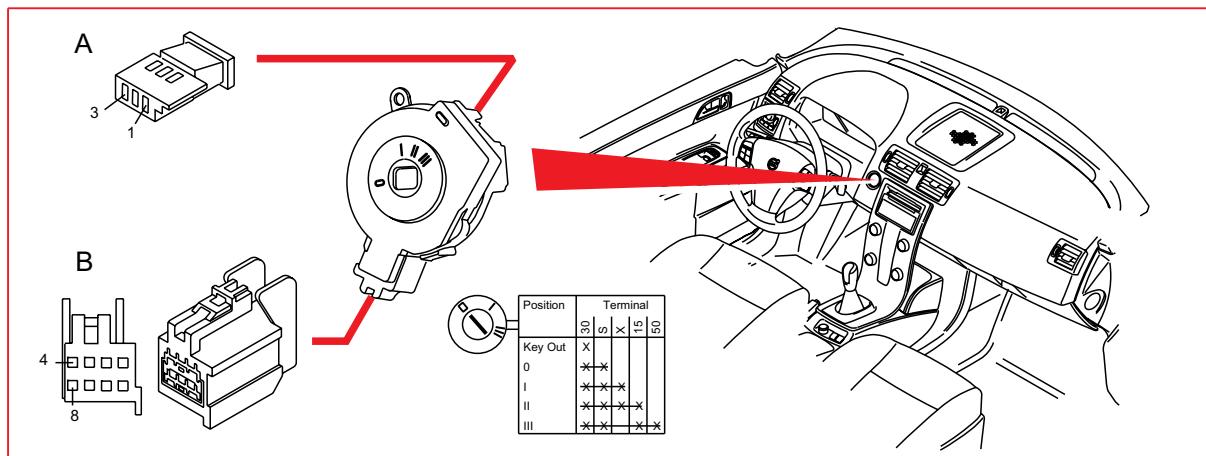
Electrical distribution 2:2

Overview



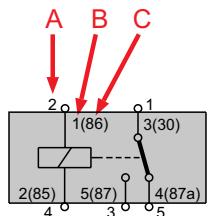
Relays

Ignition switch and relays



Relays, general

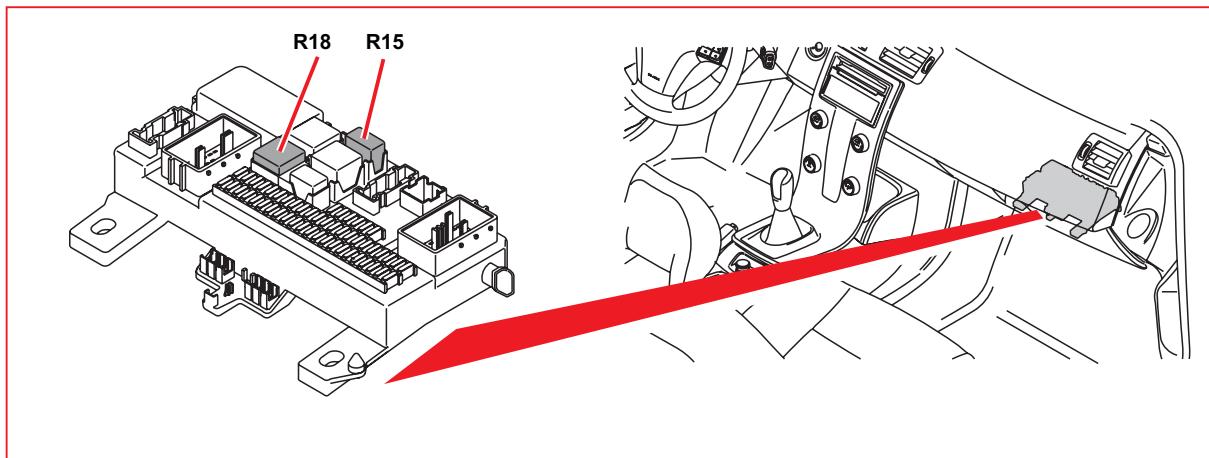
The diagram indicates two or three different designations for the relay's position. This is described below.



A = Corresponds to the position on the back of the relay box (wiring side)
B = Corresponds to the position on the relay.
C = An old designation that may be found on the relay.

Relays

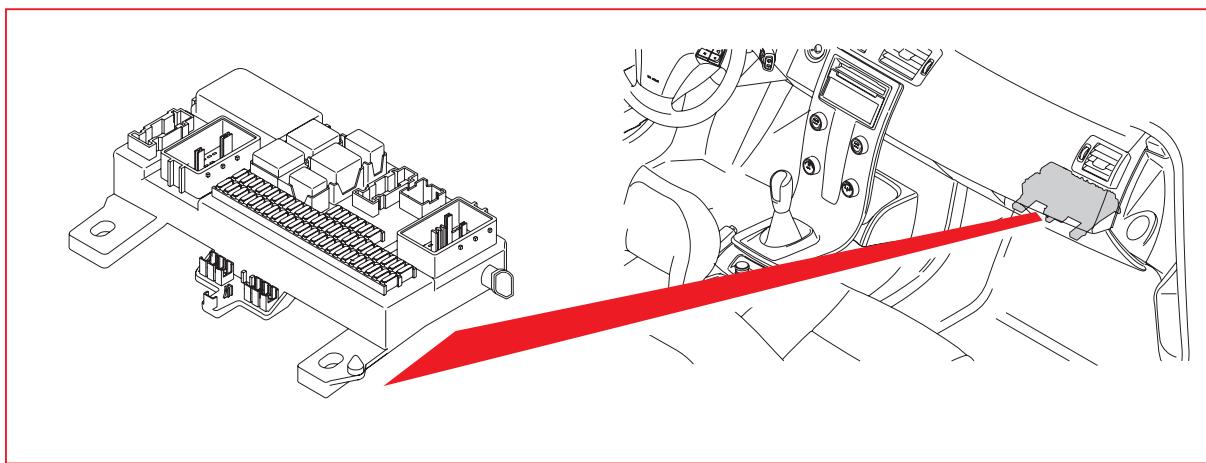
Central Electronic Module (CEM) R15-R18



4/56 Central Electronic Module (CEM)

Pos	Relay function	
R15	2/23	Fuel pump relay, gasoline
R18	2/193	Relay, comfort functions

Relays - soldered Central Electronic Module (CEM) R1 - R11B

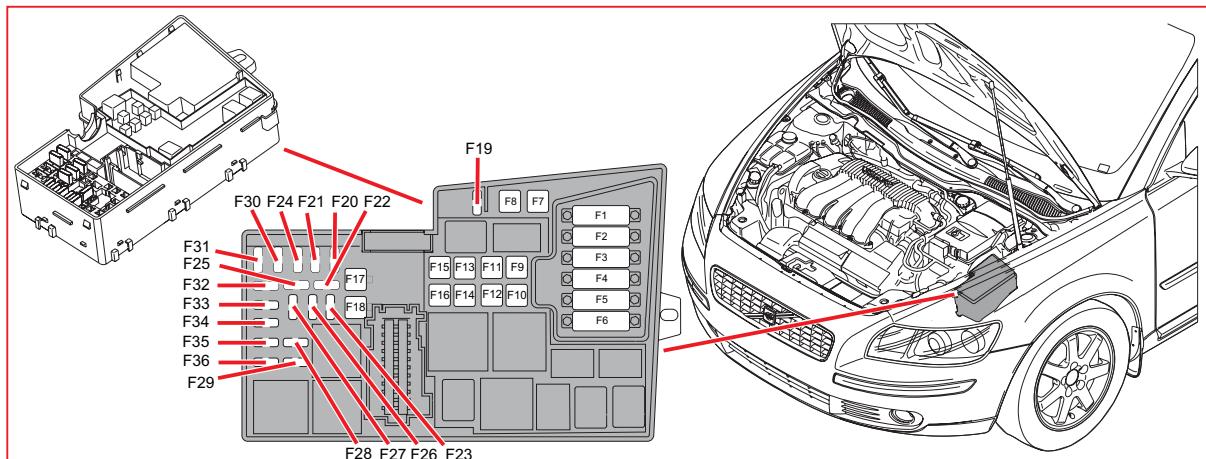


4/56 Central Electronic Module (CEM)

Pos	Relay function
R1	2/89 Relay, interior lighting
R2	2/80 Relay, reversing lights
R7A	2/92 Relay, windshield washer motor
R7B	2/93 Relay, rear window washer motor
R8	2/63 Relay, high beam
R11A	2/16 Relay, rear window wiper
R11B	2/159 Relay, infotainment

Fuses

Engine compartment distribution box F1-F8



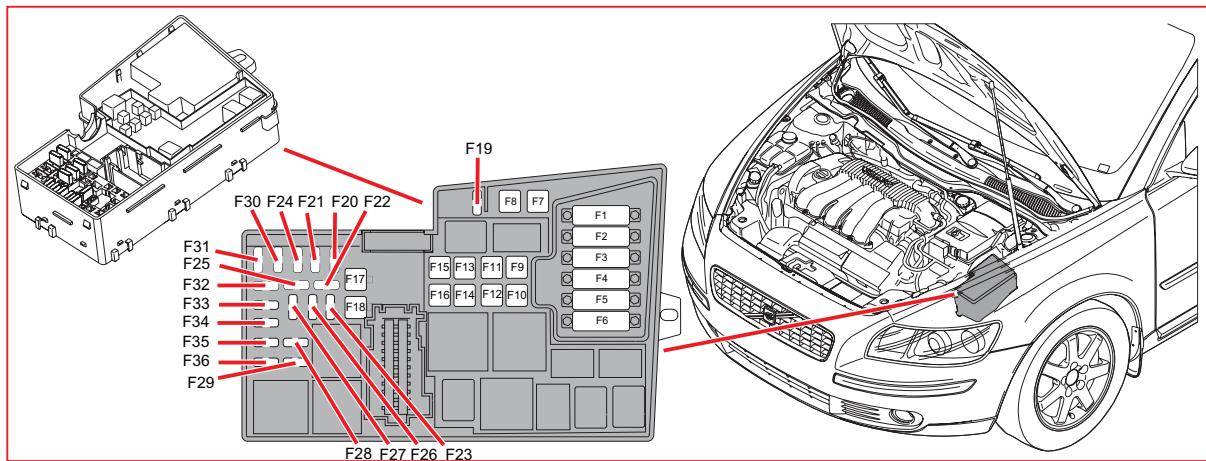
15/31 Engine compartment distribution box

No.	Fuse function	via	A
F1	4/71 Cooling fan control module	-	50
F2	6/71 Electrical Power Steering Module (EPS)	-	80
F3	2/193 Relay, comfort functions F45 Fuse in the Central Electronic Module (CEM) F48-F49 Fuses in the Central Electronic Module (CEM) F60-F61 Fuses in the Central Electronic Module (CEM) F62-F63 Fuses in the Central Electronic Module (CEM) F68-F69 Fuses in the Central Electronic Module (CEM) F80-F82 Fuses in the Central Electronic Module (CEM) F84-F85 Fuses in the Central Electronic Module (CEM)	2/193 2/193 2/193 2/193 -	60
F4	2/63 Relay, high beam F55 Fuses in the Central Electronic Module (CEM) F58-F59 Fuses in the Central Electronic Module (CEM) F74 Fuses in the Central Electronic Module (CEM) F77 Fuses in the Central Electronic Module (CEM)	2/63	60
F5	9/41 PTC element, Diesel	-	80
F6	4/109 Glow plug control module	-	60
F7	4/16 Brake Control Module (BCM), pump	-	30
F8	4/16 Brake Control Module (BCM), valves	-	20

continues

Fuses

Engine compartment distribution box F9-F18



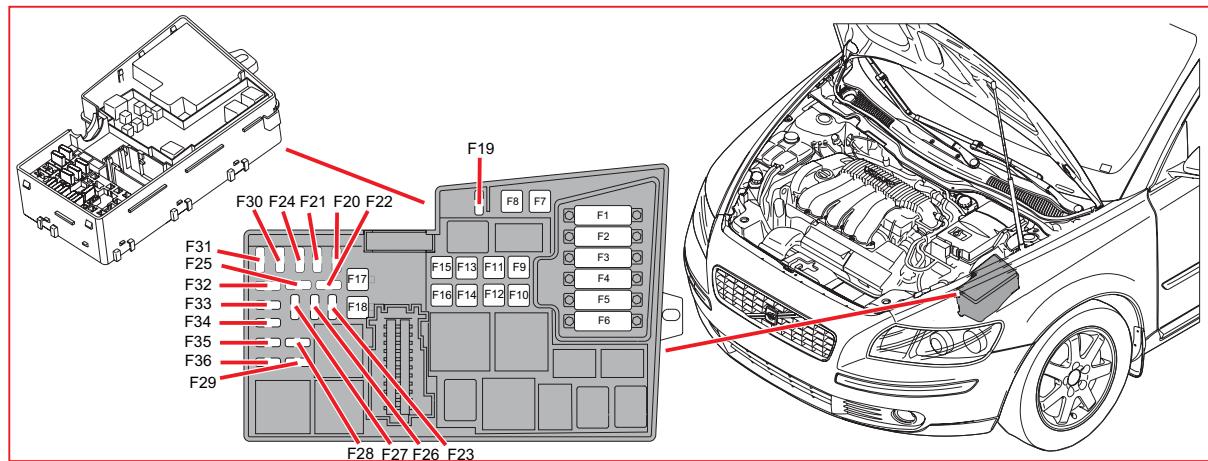
15/31 Engine compartment distribution box

No.	Fuse function	via	A
F9	2/32 Main relay, engine management system F32-F36 Fuses in the engine compartment distribution box	- 2/32	30
F10	4/31 Fan control module	-	40
F11	6/104 Pump, high pressure headlight washer	2/182	20
F12	2/82 Relay, heated rear window 9/2 Heated rear window	- 2/82	30
F13	6/25 Starter motor	2/35	30
F14	4/110 Trailer Module (TRM)	-	40
F16	2/159 Relay, infotainment 16/105 Audio Module (AUD) F43 Fuse in the Central Electronic Module (CEM) F64 Fuse in the Central Electronic Module (CEM) F65-F67 Fuses in the Central Electronic Module (CEM)	- - - - 2/159	30
F17	6/1 Wiper Motor Module (WMM)	-	30
F18	2/80 Relay, reversing lights 2/89 Relay, interior lighting 4/56 Central Electronic Module (CEM) F46-F47 Fuses in the Central Electronic Module (CEM) F56-F57 Fuses in the Central Electronic Module (CEM) F79 Fuse in the Central Electronic Module (CEM) F81-F83 Fuses in the Central Electronic Module (CEM) F86 Fuse in the Central Electronic Module (CEM)	- - - 2/89 - 2/80 - 2/89	40

continues

Fuses

Engine compartment distribution box F20-F32



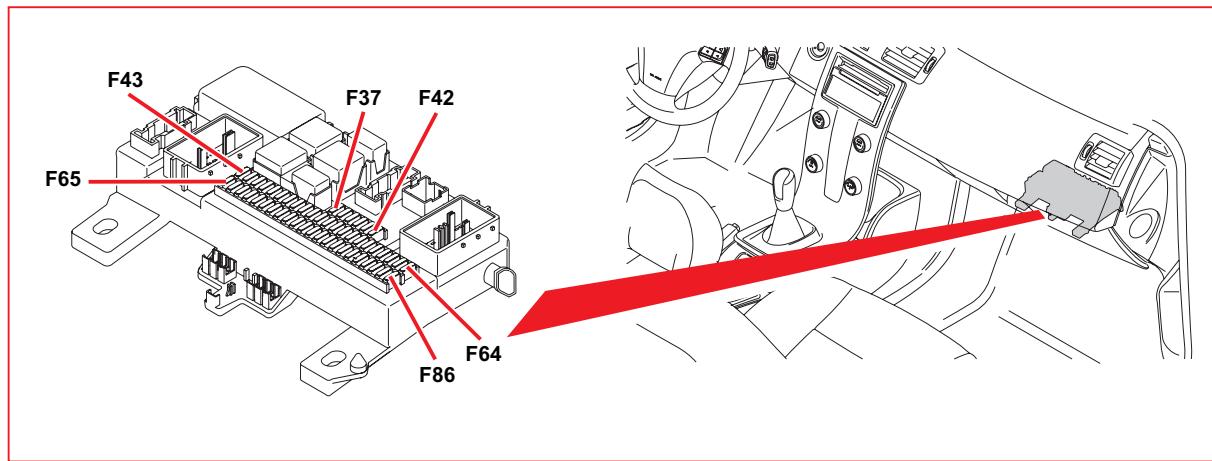
15/31 Engine compartment distribution box

No.	Fuse function	via	A
F20	2/17 Relay, horn 16/10 Horn 1 16/11 Horn 2	- 2/17 2/17	15
F21	4/7 Combustion Preheater Module (CPM)	-	20
F22	16/79 Subwoofer Module (SUB)	2/159	15
F23	4/28 Transmission Control Module (TCM) 4/46 Engine Control Module (ECM)	- -	10
F24	9/38 Heated fuel filter, Diesel	2/142	20
F26	2/35 Relay, starter motor 3/1 Start Control Module (SCU) 4/46 Engine Control Module (ECM) 4/56 Central Electronic Module (CEM) F44 Fuse in the Central Electronic Module (CEM) F51-F54 Fuses in the Central Electronic Module (CEM) F73 Fuse in the Central Electronic Module (CEM)	3/1 4/56 3/1 3/1 3/1 3/1 3/1	15
F27	8/3 Electromagnetic clutch, climate control system	2/22	10
F28	3/112 Climate Control Module (CCM) 16/108 Multimedia Module (MMM)	- 2/159	10
F29	2/34 Relay, front fog lights 10/5 Fog light, front left 10/6 Fog light, front right	- 2/34 2/34	15
F30	4/46 Engine Control Module (ECM), Diesel	-	3
F31	6/26 Alternator, Diesel	-	10
F32	2/142 Relay, pre-heater, fuel filter 7/15 Heated oxygen sensor, front 8/6-8/10 Injectors, Gasoline 8/121 Valve coolant	-	10

continues

Fuses

Central Electronic Module (CEM) F43-F52



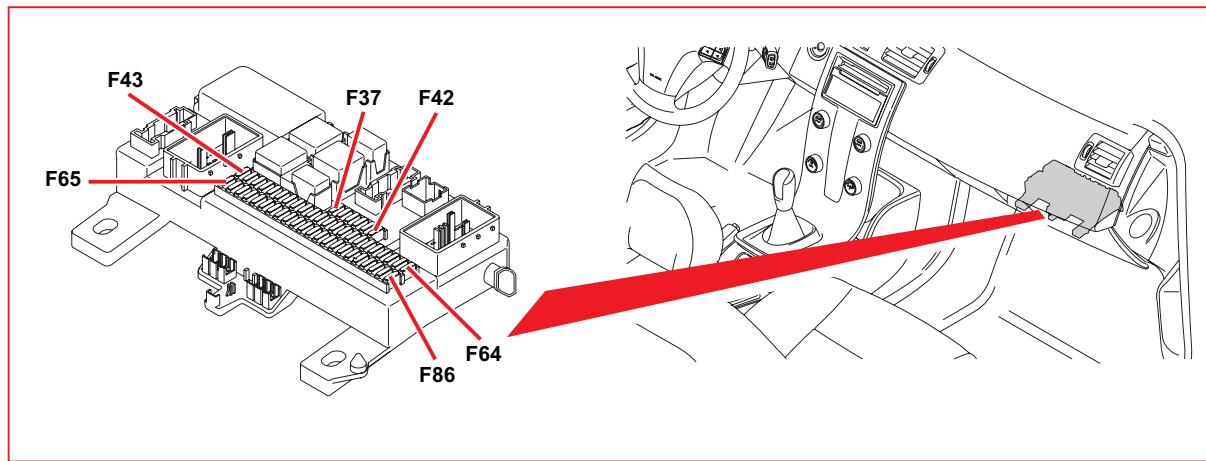
4/56 Central Electronic Module (CEM)

No.	Fuse function	via	A
F43	16/46 RTI Display 16/60 Phone Module (PHM) 16/107 Media Player Module (MPM)	- - -	15
F44	4/9 Supplemental Restraint System Module (SRS)	-	10
F45	9/1 Front 12V outlet 9/25 Rear 12V outlet	- -	15
F46	3/111 Switch unit, lights 5/1 Driver Information Module (DIM) 10/29 Glove compartment lighting 10/97 Courtesy lighting, left 10/102 Courtesy lighting, right	- - - - -	5
F47	10/22 Ceiling light 10/150 Rear reading light 10/114 Vanity mirror lighting, left 10/115 Vanity mirror lighting, right	- - - -	5
F48	2/16 Relay, rear window wiper 2/92 Relay, windshield washer motor 2/93 Relay, rear window washer motor 6/2 Washer pump 6/2 Washer pump 6/32 Rear window wiper motor	- - - 2/92 2/93 2/16	15
F49	4/9 Supplemental Restraint System Module (SRS) 7/93 Occupant Weight Sensor (OWS), USA/CDN	- -	10
F51	10/1 Lamp housing, front left, beam length adjustment 10/2 Lamp housing, front right, beam length adjustment 4/112 Control module, gas discharge lamp master, left 4/113 Control module, gas discharge lamp slave, right 9/41 PTC element, Diesel	4/112 4/113 - - -	10
F52	4/16 Brake Control Module (BCM)	-	5

continues

Fuses

Central Electronic Module (CEM) F53-F66



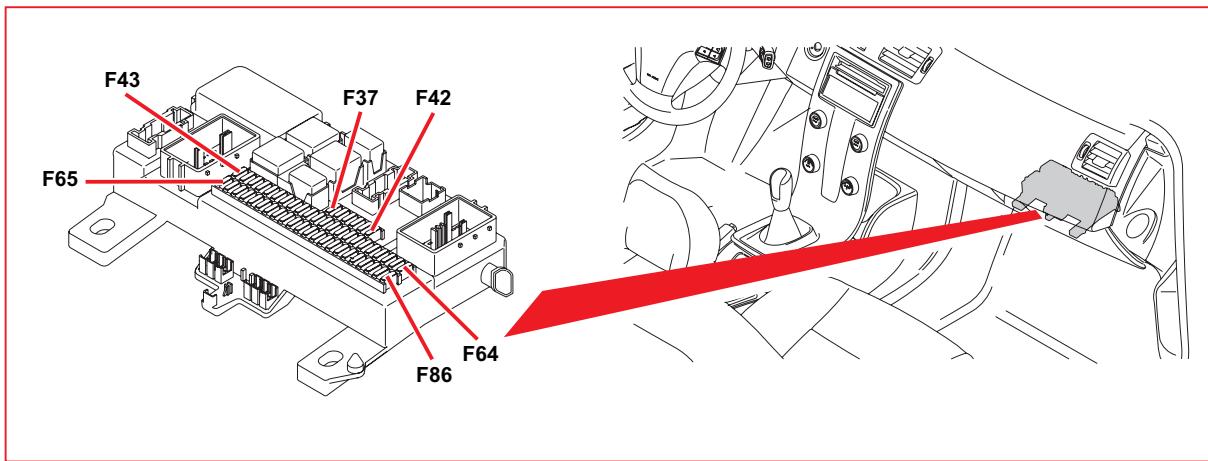
4/56 Central Electronic Module (CEM)

No.	Fuse function	via	A
F53	6/71 Electrical Power Steering Module (EPS)	-	10
F54	4/28 Transmission Control Module (TCM) 6/26 Alternator	-	10
F55	4/93 Keyless Vehicle Module (KVM)	-	20
F56	16/35 Siren Control Module (SCM)	4/56	10
F57	4/46 Engine Control Module (ECM) 4/56 Central Electronic Module (CEM) 17/13 Data link connector	3/9 3/9 -	15
F58	2/64 Relay, auxiliary light (accessory) 4/113 Control module, gas discharge lamp slave, right 10/64 High beam, right	3/60 - -	7.5
F59	4/112 Control module, gas discharge lamp master, left 10/68 High beam, left	- -	7.5
F60	9/12 Seat Heater Module (SHM), driver's side	-	15
F61	9/13 Seat Heater Module (SHM), passenger side	-	15
F62	4/33 Sunroof control module	-	20
F63	3/129 Right Rear Door Module (RDM)	-	20
F64	16/49 Traffic Message Channel Module (TMC) 16/94 AM/FM Tuner Module (AFM) 16/139 Global Positioning System Module (GPS)	- - -	5
F65	7/182 Remote control IR sensor, RTI 16/46 RTI Display 16/105 Audio Module (AUD) 16/107 Media Player Module (MPM)	- - - -	5
F66	2/159 Relay, infotainment 16/1 Infotainment Control Module (ICM)	- -	10

continues

Fuses

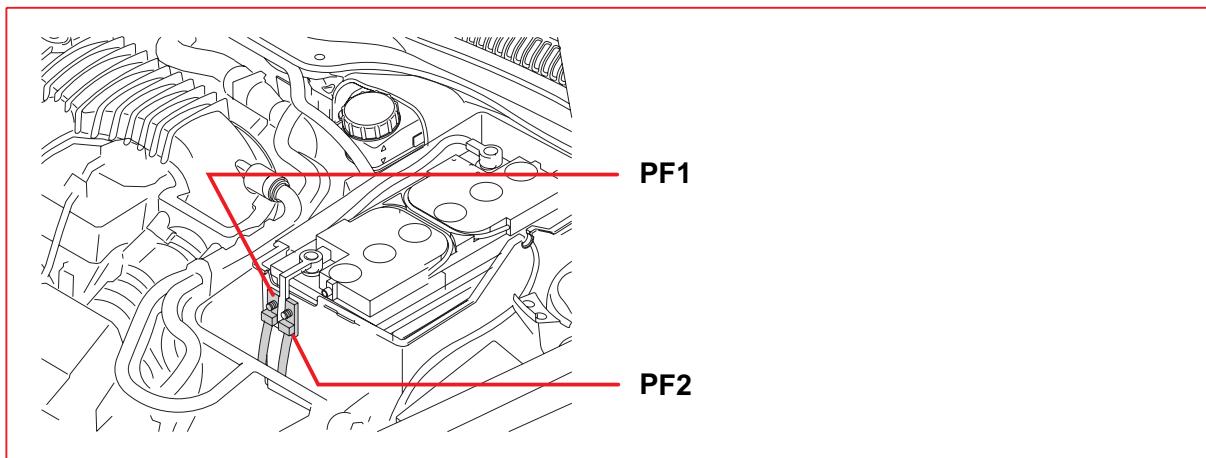
Central Electronic Module (CEM) F68-F86



4/56 Central Electronic Module (CEM)

No.	Fuse function	via	A
F68	3/254 Steering Wheel Module (SWM)	-	5
F69	7/149 Rain Sensor Module (RSM) 6/48 Damper motor, recirculation 6/95 Damper motor, temperature, left-hand side 6/96 Damper motor, temperature, right-hand side 6/102 Damper motor, defroster 6/103 Damper motor, floor/ventilation 7/159 Air quality sensor	- - - - - - -	5
F73	3/217 Belt buckle contact, left rear 3/218 Belt buckle contact, center rear 3/219 Belt buckle contact, right rear 4/33 Sunroof control module 8/48 Auto-dimming rearview mirror 10/22 Ceiling light	- - - - - -	5
F74	4/83 Fuel pump control module, gasoline	2/23	15
F77	17/19 12V outlet, cargo compartment	-	15
F79	8/48 Auto-dimming rearview mirror 10/48 Reversing light, right 10/55 Reversing light, left	2/80 - -	5
F80	-	-	5
F81	3/128 Left Rear Door Module (LDM)	-	20
F82	3/127 Passenger Door Module (PDM)	-	25
F83	3/126 Driver's Door Module (DDM)	-	25
F84	3/27 Switch unit, power passenger seat	-	25
F85	3/26 Switch unit, power driver's seat	-	25
F86	3/26 Switch unit, power driver's seat 3/27 Switch unit, power passenger seat 10/24 Cargo compartment lighting	- - -	5

Fuses Battery, PF1-PF2

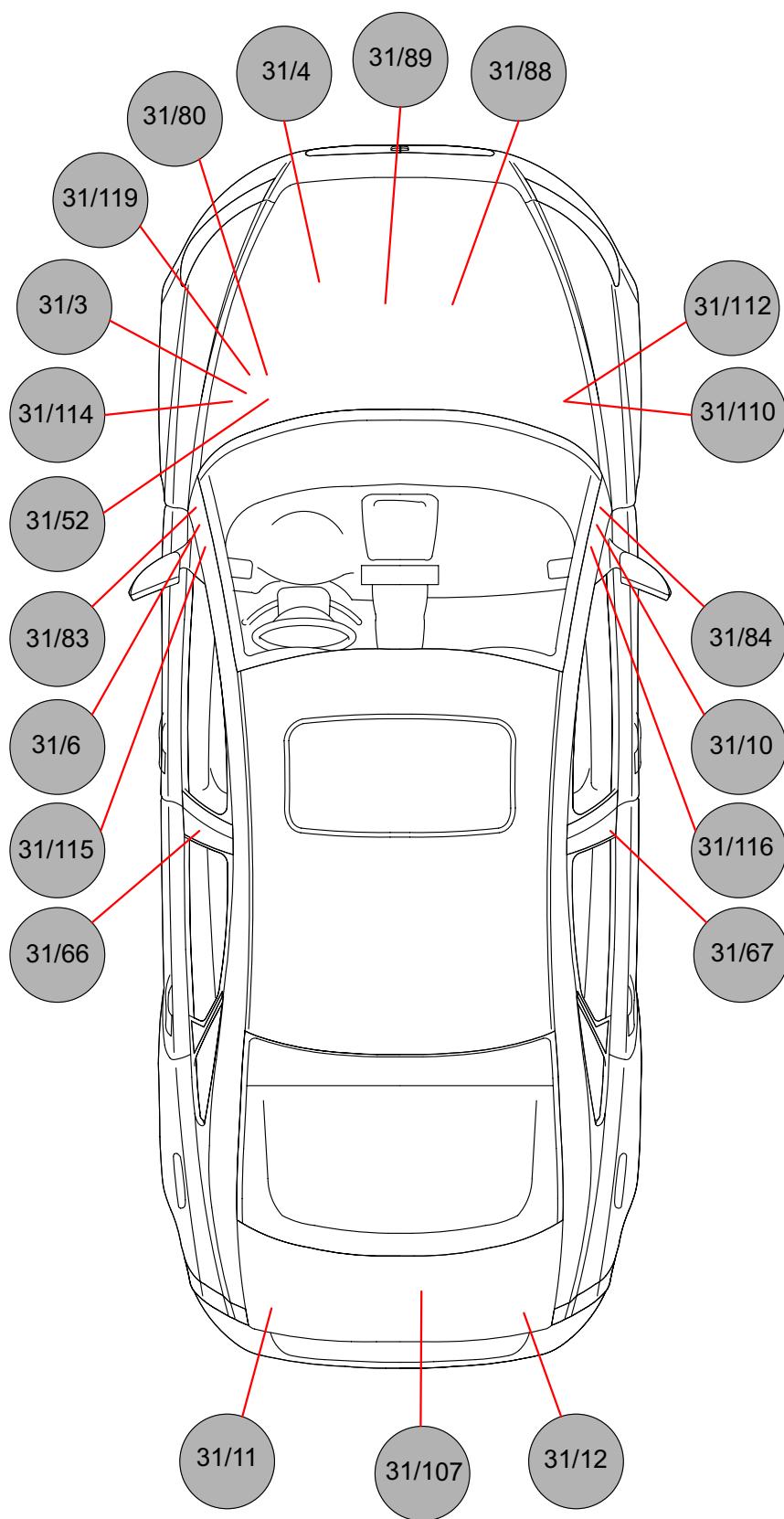


1/1 Battery

No.	Fuse function	via	A
PF1	6/25 Starter motor 6/26 Alternator	- -	150
PF2	F1-F14 Fuses in the engine compartment distribution box F16-F18 Fuses in the engine compartment distribution box F20-F21 Fuses in the engine compartment distribution box F23-F24 Fuses in the engine compartment distribution box F26-F27 Fuses in the engine compartment distribution box F29-F31 Fuses in the engine compartment distribution box	- - - - - -	150

Ground connections

Overview



Ground connections

31/3 - 31/10

31/3	Left MacPherson strut tower
1/1	Battery

31/4	Engine
1/1	Battery

31/6	A-post, driver's side
3/111	Switch unit, lights
4/102	Steering Column Lock Module (SCL)
6/28	Motor, passenger compartment fan
10/1	Lamp housing, front left
10/2	Lamp housing, front right
10/3	License plate lighting
17/13	Data link connector

31/10	A-post, passenger side
2/16	Relay, rear window wiper
2/89	Relay, interior lighting
2/92	Relay, windshield washer motor
2/93	Relay, rear window washer motor
2/193	Relay, comfort functions
3/95	Spin control switch
3/112	Climate Control Module (CCM)
3/117	Switch unit, ceiling light
3/156	Gear Selector Module (GSM)
3/173	Switch, trunk lid/tailgate private lock
4/33	Sunroof control module
4/56	Central Electronic Module (CEM)
6/2	Washer pump
6/48	Damper motor, recirculation
6/95	Damper motor, temperature, left-hand side
6/96	Damper motor, temperature, right-hand side
6/102	Damper motor, defroster
6/103	Damper motor, floor/ventilation
6/117	Interior temperature sensor
7/159	Air quality sensor
8/48	Auto-dimming rearview mirror
8/134	Solenoid, reverse interlock, manual
9/1	Front 12V outlet
9/25	Rear 12V outlet
10/22	Ceiling light
10/29	Glove compartment lighting
10/114	Vanity mirror lighting, left
10/115	Vanity mirror lighting, right
10/150	Rear reading light
16/1	Infotainment Control Module (ICM)

Ground connections

31/11 - 31/66

31/11 Rear left side	
10/18	Lamp housing, rear left
16/79	Subwoofer Module (SUB)
16/105	Audio Module (AUD)
16/139	Global Positioning System Module (GPS)

31/12 Rear right side	
4/78	Accessory Electronic Module (AEM)
4/86	Control module, Parking Assistance Module (PAM)
4/110	Trailer Module (TRM)
6/37	Lock motor, fuel filler flap
10/17	Lamp housing, rear right
17/19	12V outlet, cargo compartment

31/52 Left MacPherson strut tower	
3/10	Reversing light contact
4/28	Transmission Control Module (TCM)
4/46	Engine Control Module (ECM)
4/86	Parking Assistance Module (PAM)
7/23	Rear knock sensor
7/24	Front knock sensor
7/192	Water detection sensor
8/3	Electromagnetic clutch, climate control system, Diesel
9/38	Heated fuel filter, Diesel

31/66 Left B-post	
3/26	Switch unit, power driver's seat, LHD
3/27	Switch unit, power passenger seat, RHD
3/76	Lock unit, left rear door
3/78	Lock unit, trunk lid/tailgate
3/85	Power window switch, left rear door
3/260	Contact, locking, rear left
3/264	Contact, unlocking, rear left
3/128	Left Rear Door Module (LDM)
4/52	Power Seat Module (PSM), LHD
6/32	Rear window wiper motor, V50
6/35	Fuel pump, auxiliary heater
9/12	Seat Heater Module (SHM), driver's side, LHD
9/13	Seat Heater Module (SHM), passenger side, RHD
10/3	License plate lighting, S40
10/19	Auxiliary brake light, V50

Ground connections

31/67 - 31/84

31/67 Right B-post	
3/26	Switch unit, power driver's seat, RHD
3/27	Switch unit, power passenger seat, LHD
3/77	Lock unit, right rear door
3/86	Power window switch, right rear door
3/129	Right Rear Door Module (RDM)
3/261	Locking switch, rear right
3/265	Unlocking switch, rear right
4/52	Power Seat Module (PSM), RHD
4/82	Differential Electronic Module (DEM)
4/93	Keyless Vehicle Module (KVM)
7/93	Occupant Weight Sensor (OWS), USA/CDN
9/12	Seat Heater Module (SHM), driver's side, RHD
9/13	Seat Heater Module (SHM), passenger side, LHD

31/80 Left MacPherson strut tower	
4/16	Brake Control Module (BCM), valves

31/83 A-post, driver's side	
3/1	Ignition switch
3/6	Switch, hazard warning flashers
3/254	Steering Wheel Module (SWM)
4/103	Remote Entry (RRX)
5/1	Driver Information Module (DIM)
17/13	Data link connector

31/84 A-post, passenger side	
4/56	Central Electronic Module (CEM)
7/51	Accelerator pedal sensor
7/149	Rain Sensor Module (RSM)
8/31	Airbag igniter, passenger side
8/32	Igniter, airbag stage 2, passenger side
16/1	Infotainment Control Module (ICM)
16/46	RTI Display
16/60	Phone Module (PHM)
16/93	Control module, cellular phone handsfree
16/107	Media Player Module (MPM)
16/108	Multimedia Module (MMM)

Ground connections

31/88 - 31/114

31/88 Engine	
9/32	PTC resistor, oil trap
20/3	Spark plug and ignition coil
20/4	Spark plug and ignition coil

31/89 Engine	
20/5	Spark plug and ignition coil
20/6	Spark plug and ignition coil
20/7	Spark plug and ignition coil

31/102 Front member	
2/192	Relay (230V), electric engine heater

31/107 Tailgate (V50)	
16/16	Window antenna amplifier

31/110 Right MacPherson strut tower	
3/271	Contact, immobilizer, clutch pedal
4/7	Combustion Preheater Module (CPM)
4/113	Control module, gas discharge lamp slave, right
6/1	Wiper Motor Module (WMM)
6/104	Pump, high pressure headlight washer
7/4	Brake fluid level sensor
7/5	Washer fluid level sensor
8/119	Pressure monitor, climate control system
8/127	Pressure switch, climate control system, Diesel
10/2	Lamp housing, front right
10/6	Fog light, front right

31/112 Right MacPherson strut tower	
9/41	PTC element, Diesel

31/114 Left MacPherson strut tower	
2/142	Relay, pre-heater, fuel filter
3/62	Hood alarm contact
4/71	Cooling fan control module
4/109	Glow plug control module
4/112	Gas Discharge Lamp Module (GDL), master
6/71	Electrical Power Steering Module (EPS)
6/114	Vacuum pump, gasoline
10/1	Lamp housing, front left
10/5	Fog light, front left
16/10	Horn 1
16/11	Horn 2
16/35	Siren Control Module (SCM)

Ground connections

31/115 - Ground connections in chassis

31/115 Left A-post	
3/126	Driver's Door Module (DDM), LHD
4/83	Fuel pump control module, RHD, gasoline

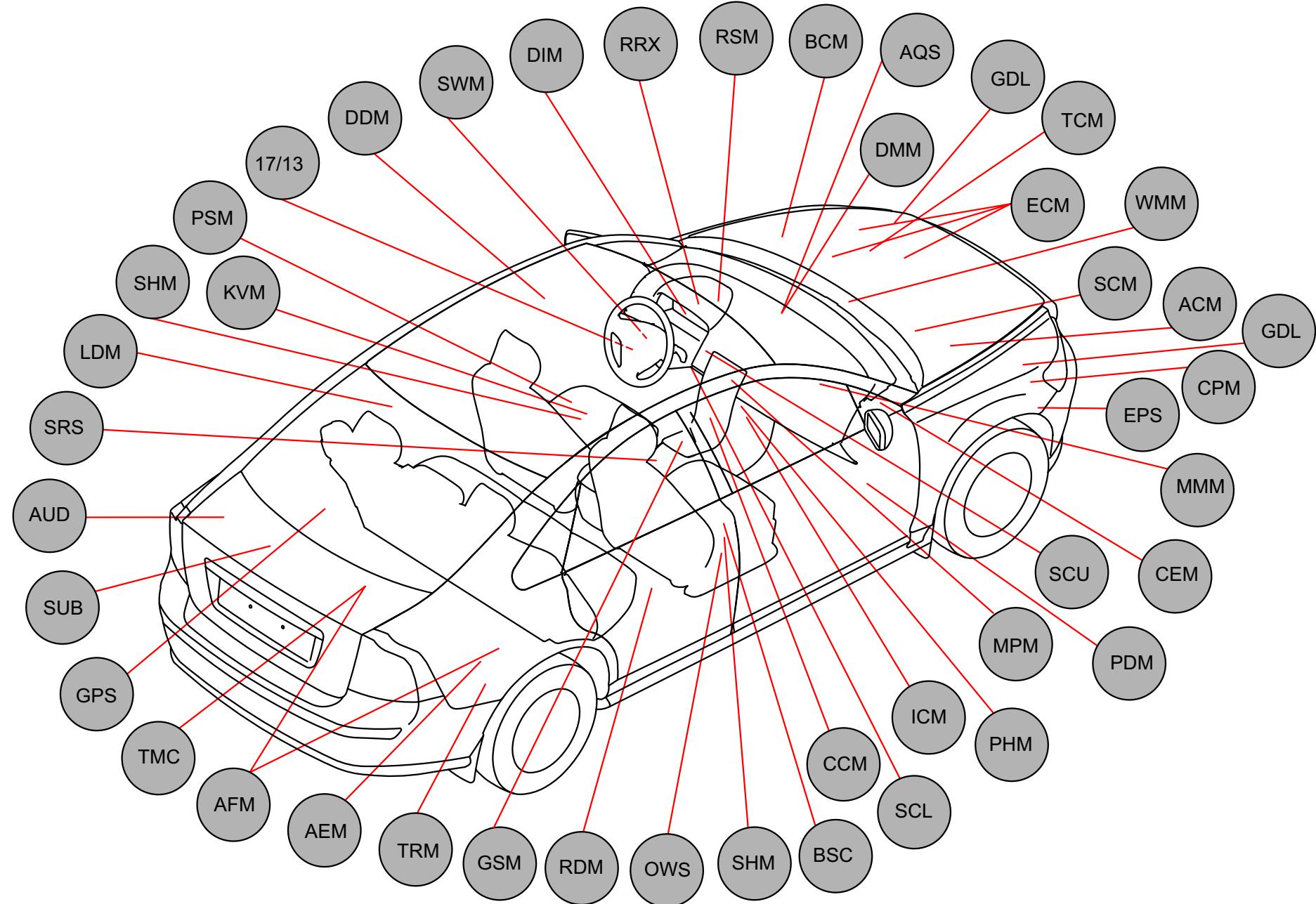
31/116 Right A-post	
3/127	Passenger Door Module (PDM), LHD
4/83	Fuel pump control module, LHD, gasoline
4/111	Additive Dosing Module (ADM)
6/33	Fuel pump

31/119 Left MacPherson strut tower	
4/16	Brake Control Module (BCM)

Grounded directly to chassis	
3/47	Parking brake contact
4/9	Supplemental Restraint System Module (SRS)
6/25	Starter motor
8/3	Electromagnetic clutch, climate control system, gasoline
8/33	Igniter, belt tensioner, driver's side
8/34	Igniter, belt tensioner, passenger side
8/55	Igniter, left rear belt tensioner
8/56	Igniter, right rear belt tensioner
8/66	Igniter, left inflatable curtain
8/67	Igniter, right inflatable curtain
8/128	Driver's belt force limiter
8/129	Passenger belt force limiter
10/19	Auxiliary brake light, S40
16/16	Window antenna amplifier
16/49	Traffic Message Channel Module (TMC)
16/94	AM/FM Tuner Module (AFM)
16/141	Interference filter, rear window, left
16/142	Interference filter, rear window, right

Control modules

Overview of locations



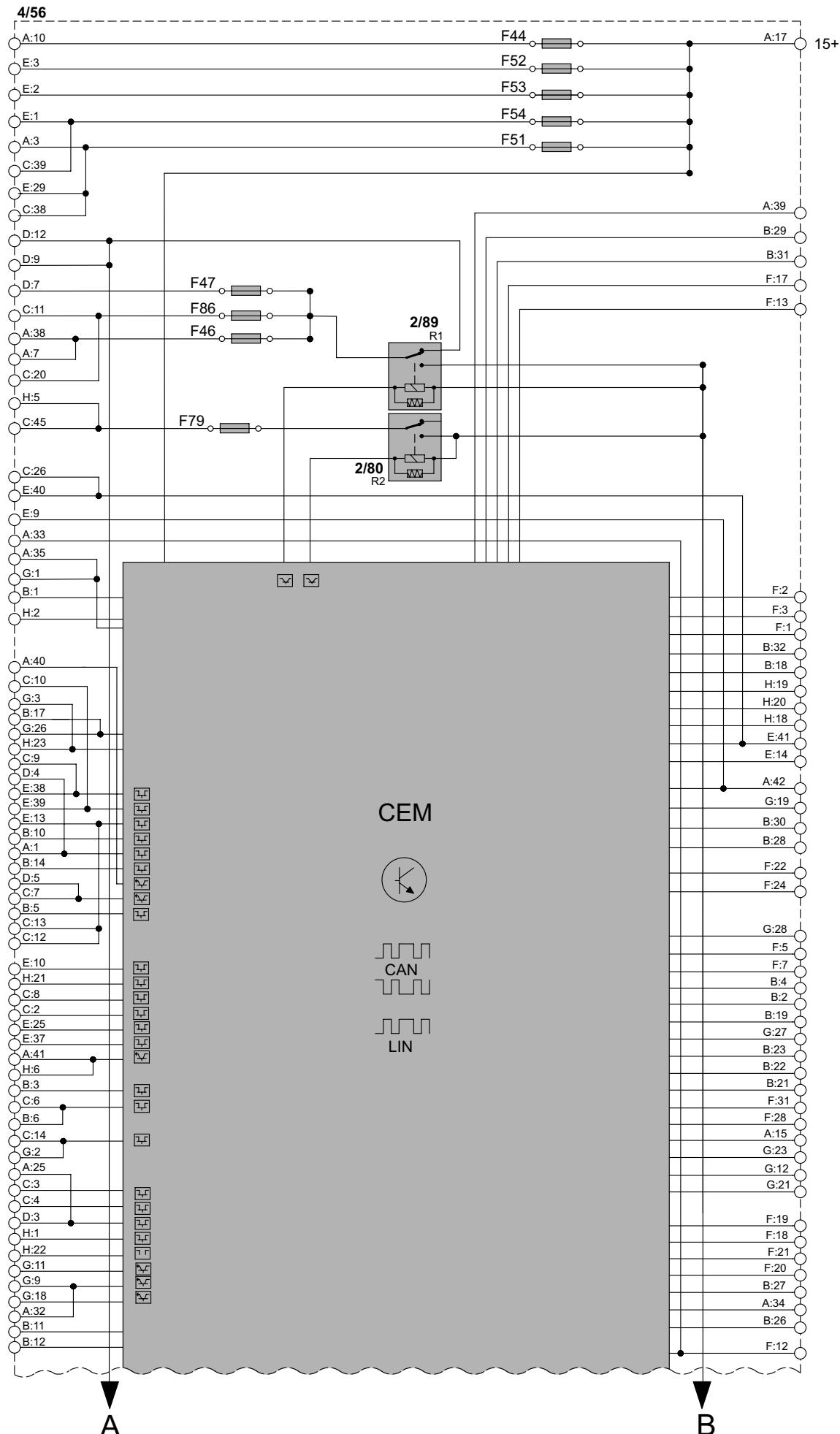
Control modules

Overview of designations

Unit	Designation
ACM	6/26 Alternator Control Module (ACM)
AEM	4/78 Accessory Electronic Module (AEM)
AFM	16/94 AM/FM Tuner Module (AFM)
AQS	7/159 Air Quality Sensor (AQS)
AUD	16/105 Audio Module (AUD)
BCM	4/16 Brake Control Module (BCM)
BSC	7/164 Body Sensor Cluster (BSC)
CCM	3/112 Climate Control Module (CCM)
CEM	4/56 Central Electronic Module (CEM)
CPM	4/7 Combustion Preheater Module (CPM)
DDM	3/126 Driver's Door Module (DDM)
DIM	5/1 Driver Information Module (DIM)
DMM	Damper Motor Module (DMM) <ul style="list-style-type: none"> -6/48 Damper Motor Module (DMM), recirculation -6/95 Damper Motor Module (DMM), left-hand side -6/96 Damper Motor Module (DMM), right-hand side -6/102 Damper Motor Module (DMM), defroster -6/103 Damper Motor Module (DMM), floor/ventilation
ECM	4/46 Engine Control Module (ECM)
EPS	6/71 Electrical Power Steering Module (EPS)
GDL	Gas Discharge Lamp Module (GDL) <ul style="list-style-type: none"> -4/112 Control module, gas discharge lamp (GDL), master, left -4/113 Control module, gas discharge lamp (GDL), slave, right
GPS	16/139 Global Positioning System Module (GPS)
GSM	3/156 Gear Selector Module (GSM)
ICM	16/1 Infotainment Control Module (ICM)
KVM	4/93 Keyless Vehicle Module (KVM)
LDM	3/128 Left Rear Door Module (LDM)
MMM	16/108 Multimedia Module (MMM)
MPM	16/107 Media Player Module (MPM)
OWS	7/93 Occupant Weight Sensor (OWS)
PDM	3/127 Passenger Door Module (PDM)
PHM	16/60 Phone Module (PHM)
PSM	4/52 Power Seat Module (PSM)
RDM	3/129 Right Rear Door Module (RDM)
RRX	4/103 Remote Entry (RRX)
RSM	7/149 Rain Sensor Module (RSM)
SCL	4/102 Steering Column Lock Module (SCL)
SCM	16/35 Siren Control Module (SCM)
SCU	3/1 Start Control Module (SCU)
SHM	Seat Heater Module (SHM) <ul style="list-style-type: none"> -9/12 Seat Heater Module (SHM), driver's side -9/13 Seat Heater Module (SHM), passenger side
SRS	4/9 Supplemental Restraint System Module (SRS)
SUB	16/79 Subwoofer Module (SUB)
SWM	3/254 Steering Wheel Module (SWM)
TCM	4/28 Transmission Control Module (TCM)
TMC	16/49 Traffic Message Channel Module (TMC)
TRM	4/110 Trailer Module (TRM)
WMM	6/1 Wiper Motor Module (WMM)
17/13	17/13 Data link connector

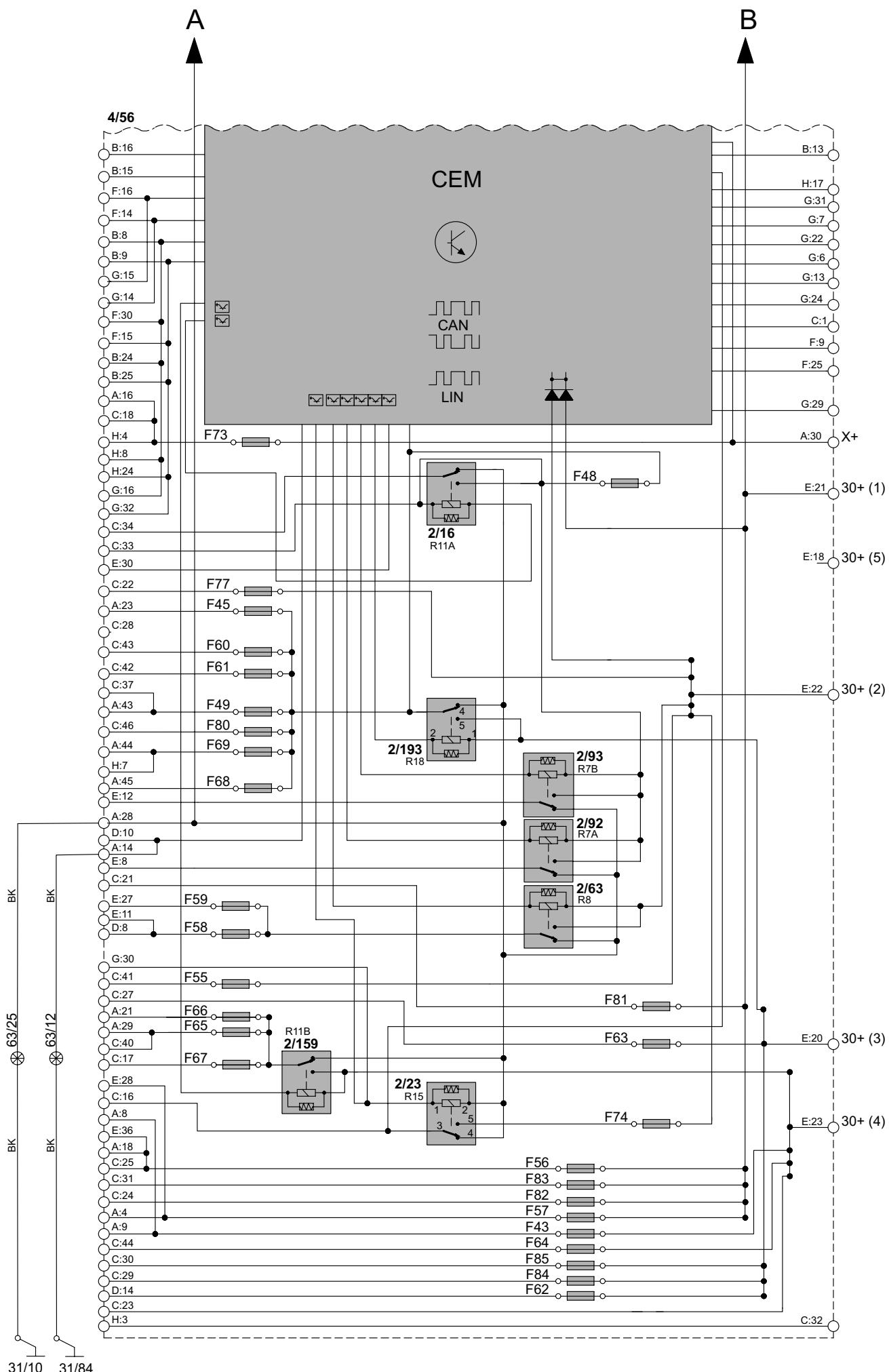
Control modules

Central Electronic Module (CEM) 1:2



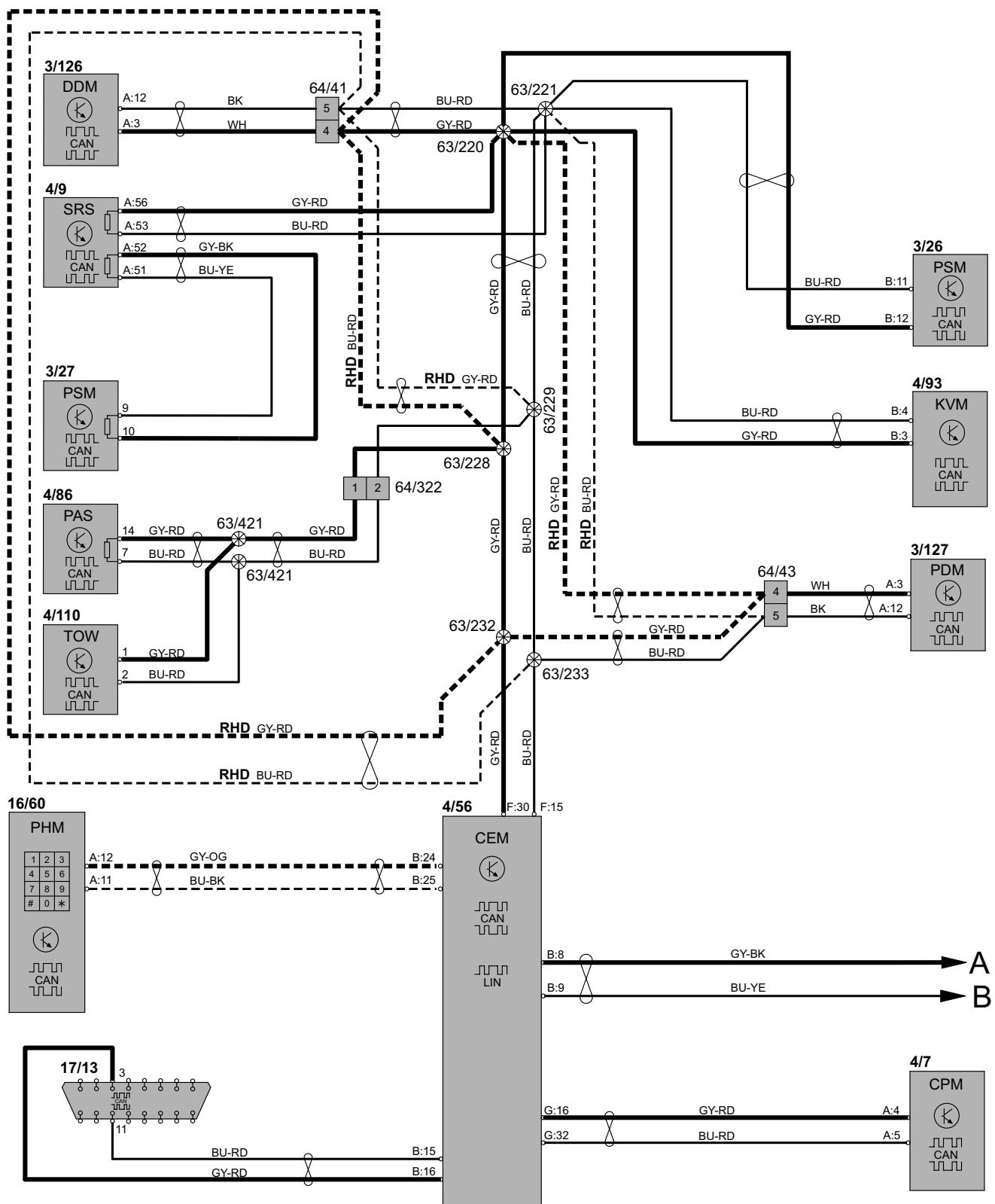
Control modules

Central Electronic Module (CEM) 2:2



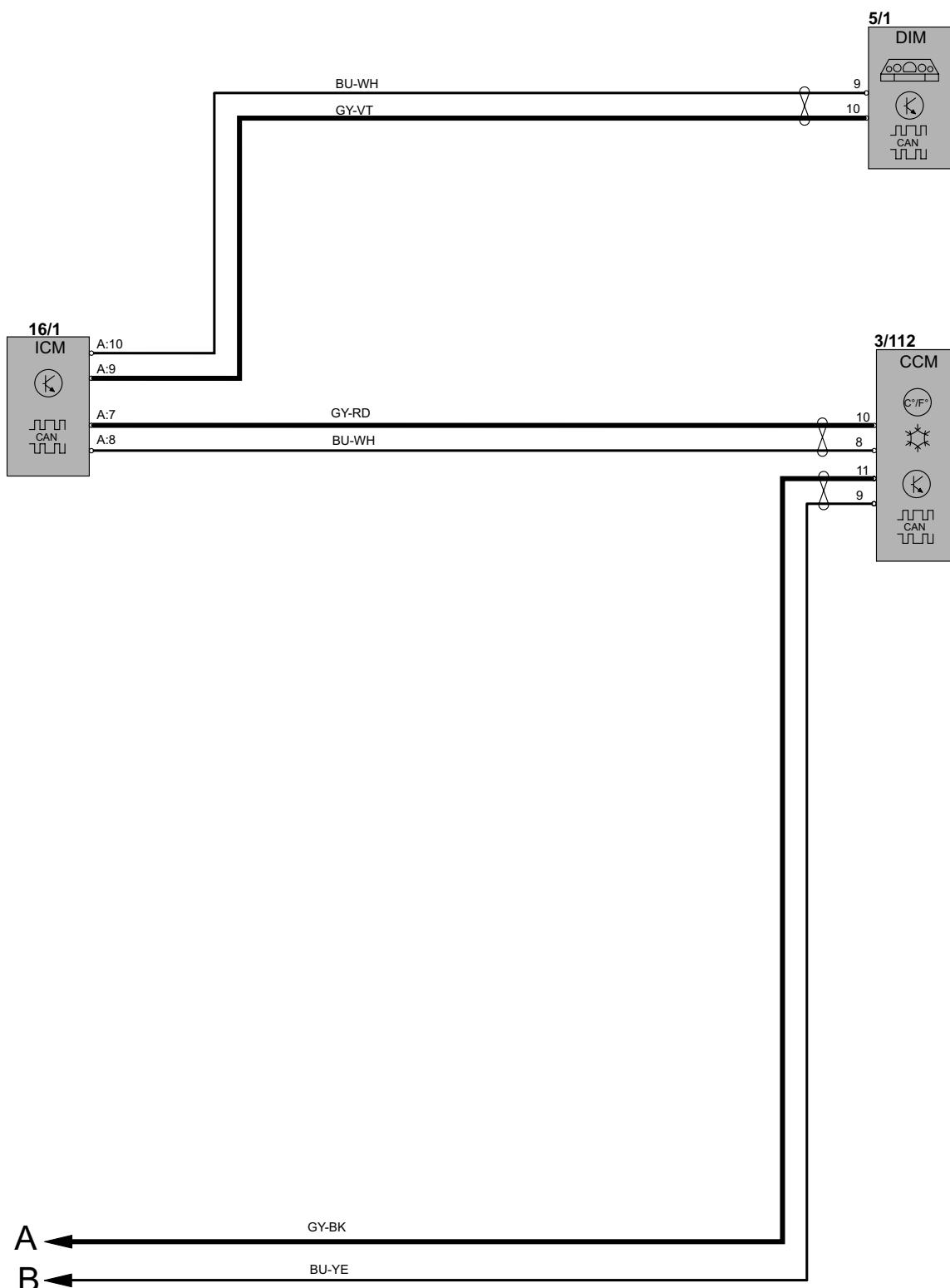
Control modules

Data communication Low speed CAN 1:2



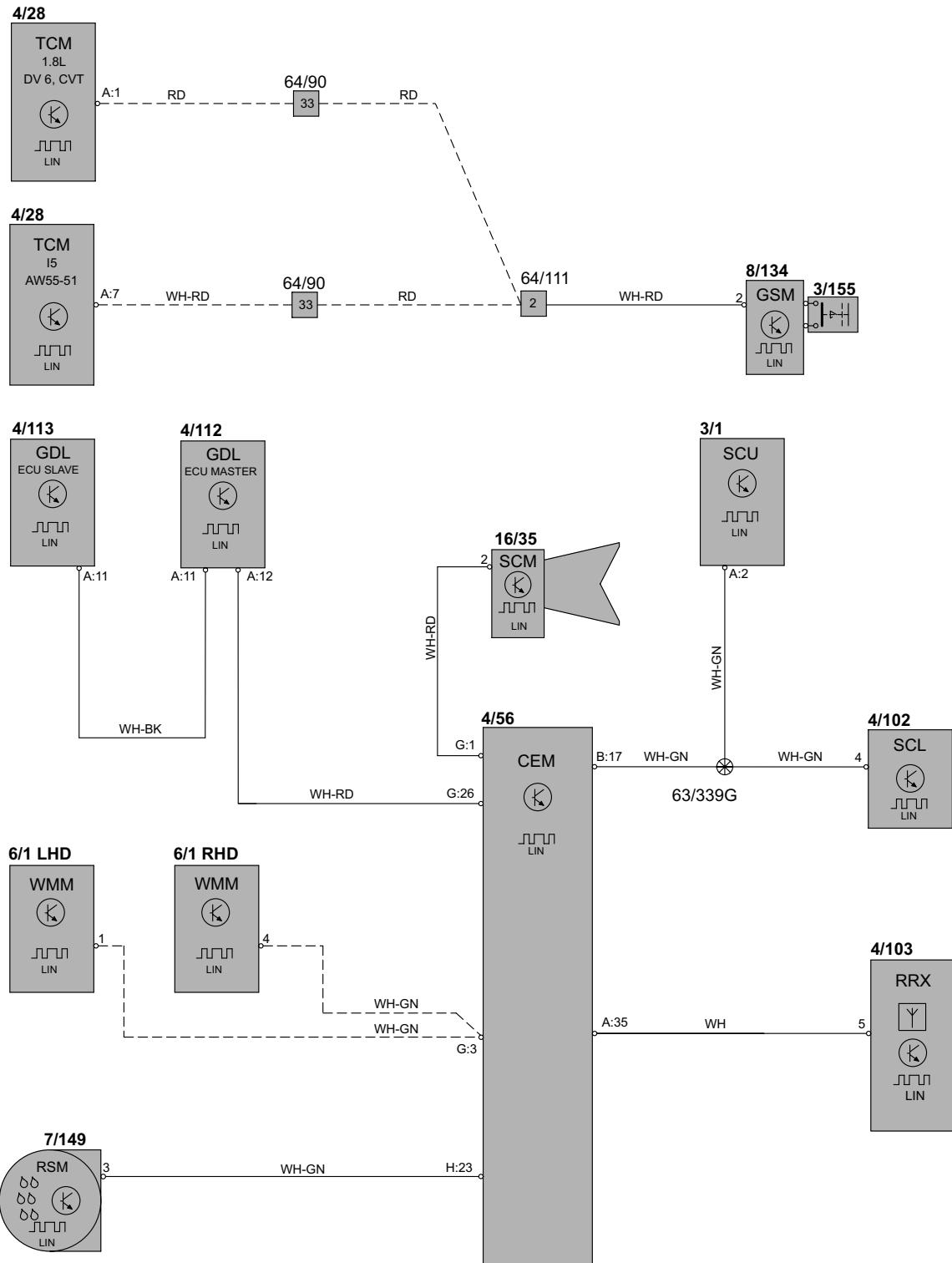
Control modules

Data communication Low speed CAN 2:2



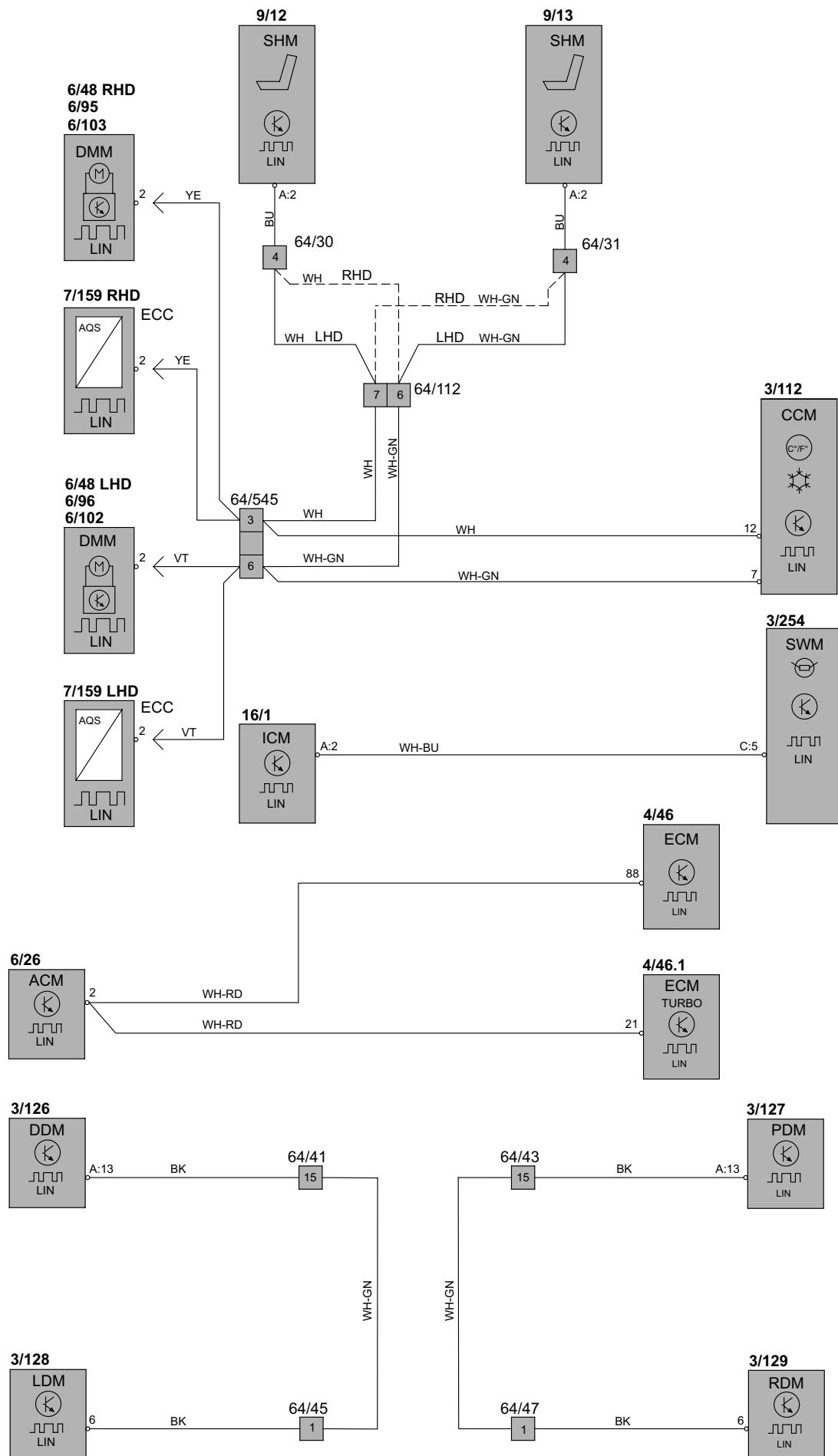
Control modules

Data communication LIN 1:2



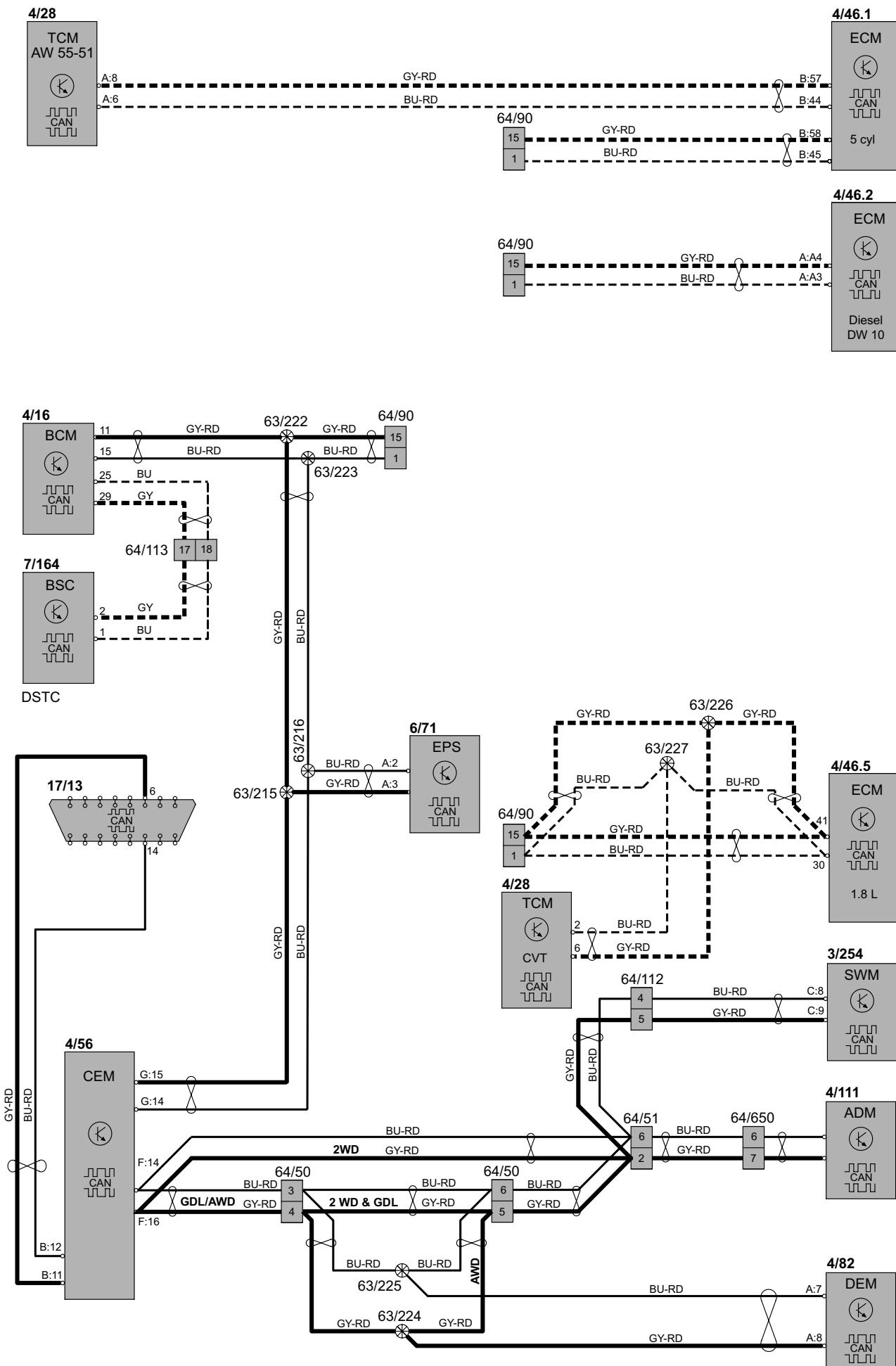
Control modules

LIN data communication 2:2



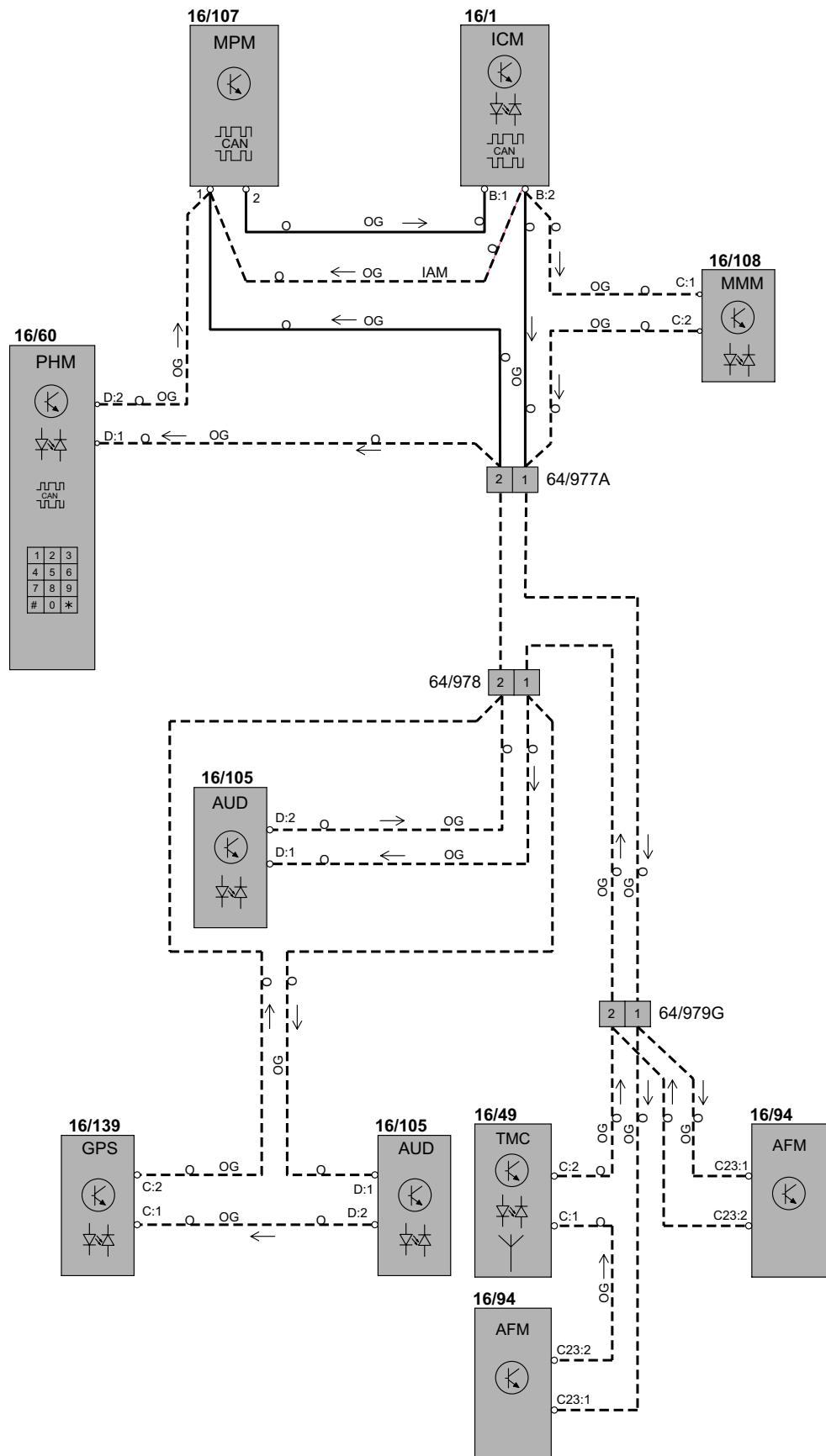
Control modules

Data communication High speed CAN



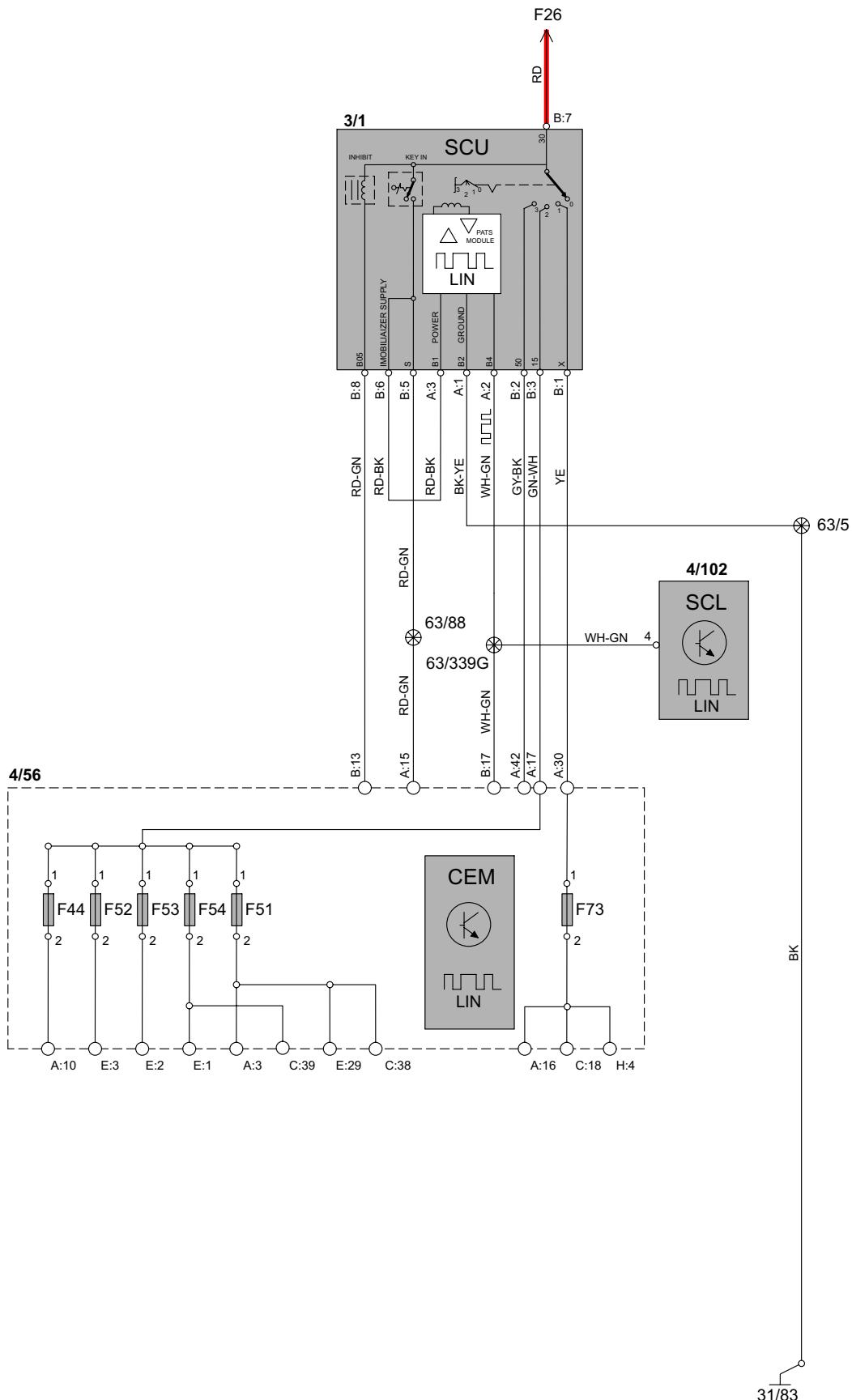
Control modules

Data communication MOST



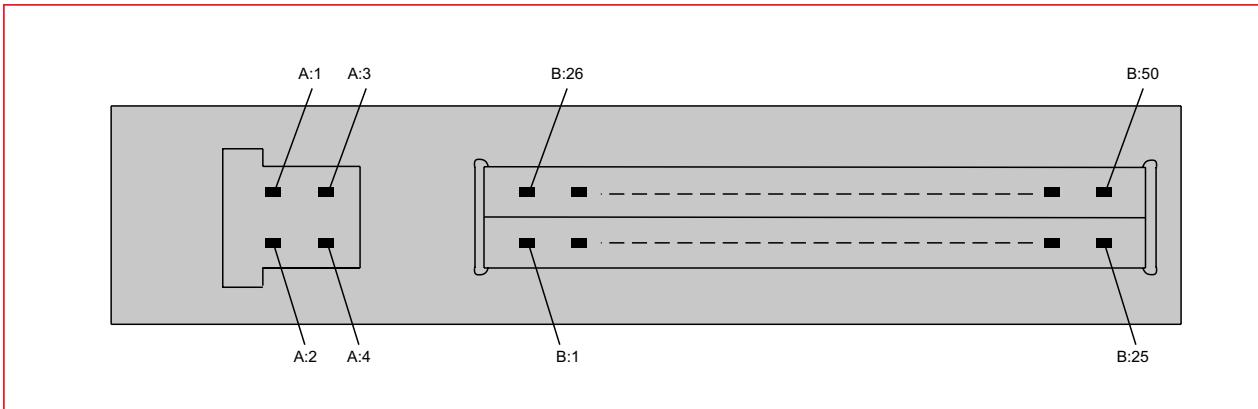
Control modules

Start Control Module (SCU)



Control modules

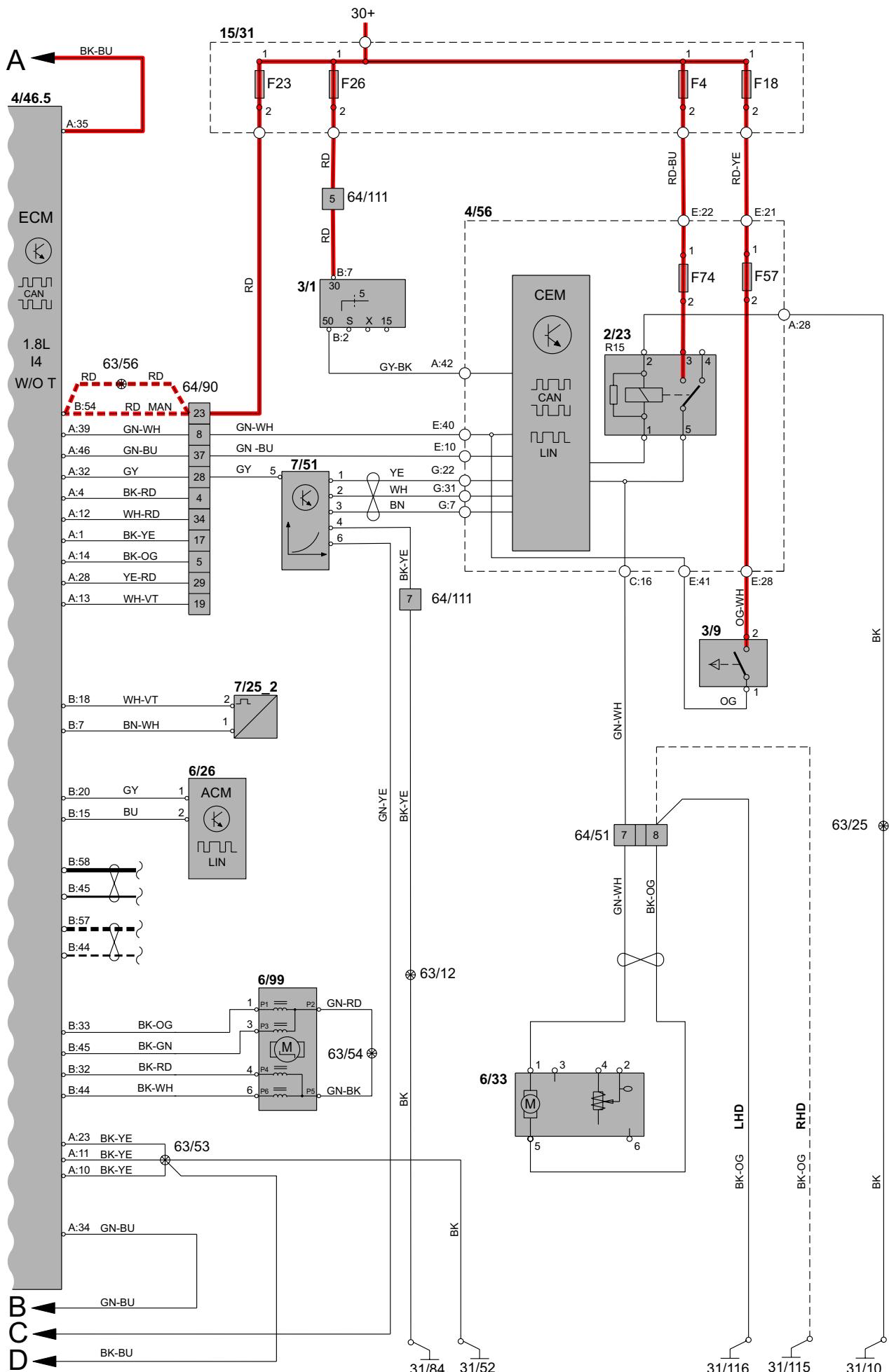
Accessory Electronic Module (AEM)



Pos	Function	Type
A:1	Electrical distribution	Ground
A:2	Electrical distribution	Feed
A:3	CAN communication	Input/output signals
A:4	CAN communication	Input/output signals
B:5	Electric engine heater	Steering, alternating current feed
B:11	Handsfree, mute of audio	Input signal
B:15	Alarm signal	Output signal
B:16	Alarm signal	Output signal
B:33	Alarm signal	Output signal
B:34	Alarm signal	Output signal

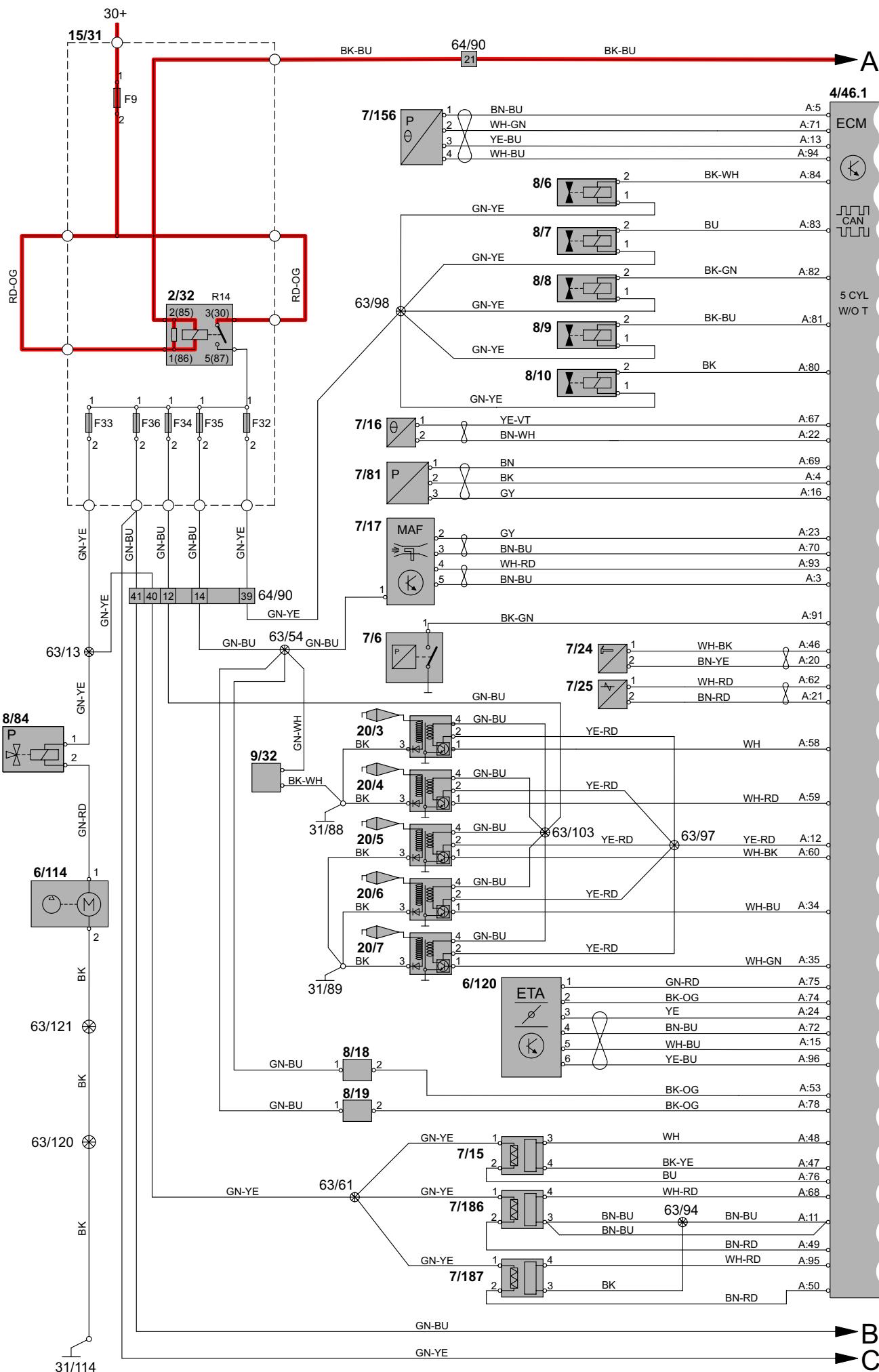
Group 23 Fuel system

Engine management system, 4-cyl 1.8l 2:2



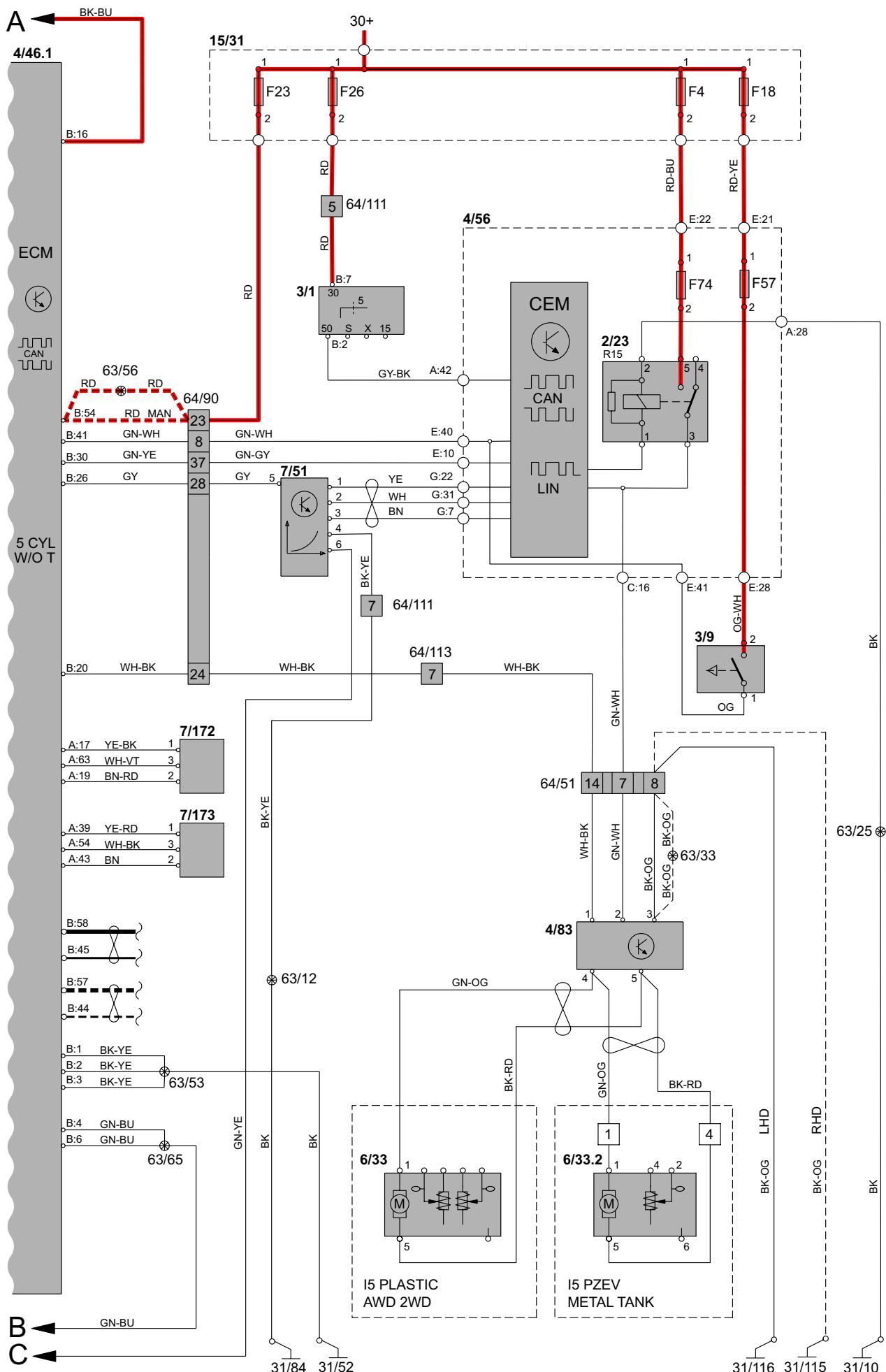
Group 23 Fuel system

Engine management system, 5-cyl 1:2



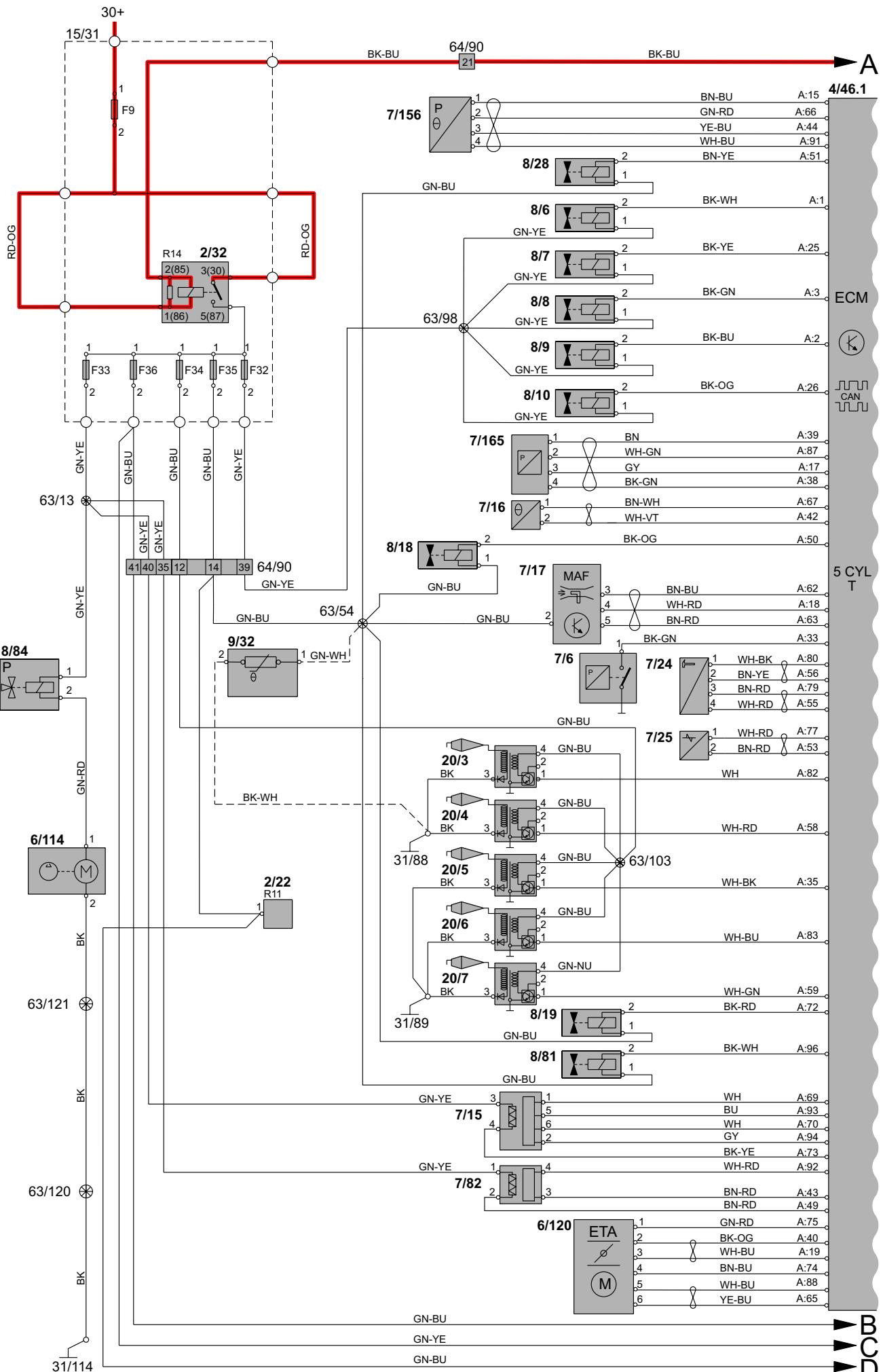
Group 23 Fuel system

Engine management system, 5-cyl 2:2



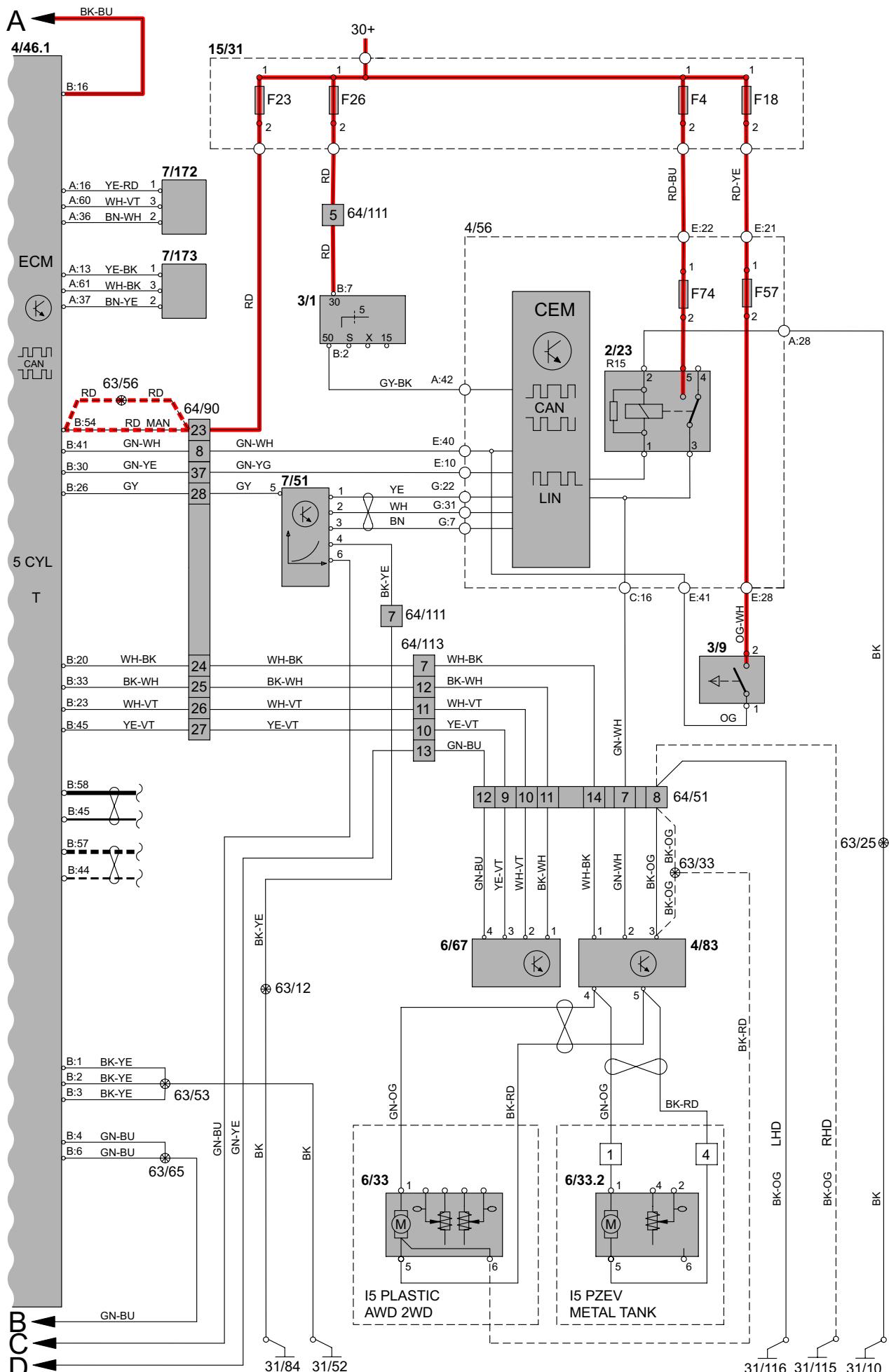
Group 23 Fuel system

Engine management system, 5-cyl Turbo 1:2



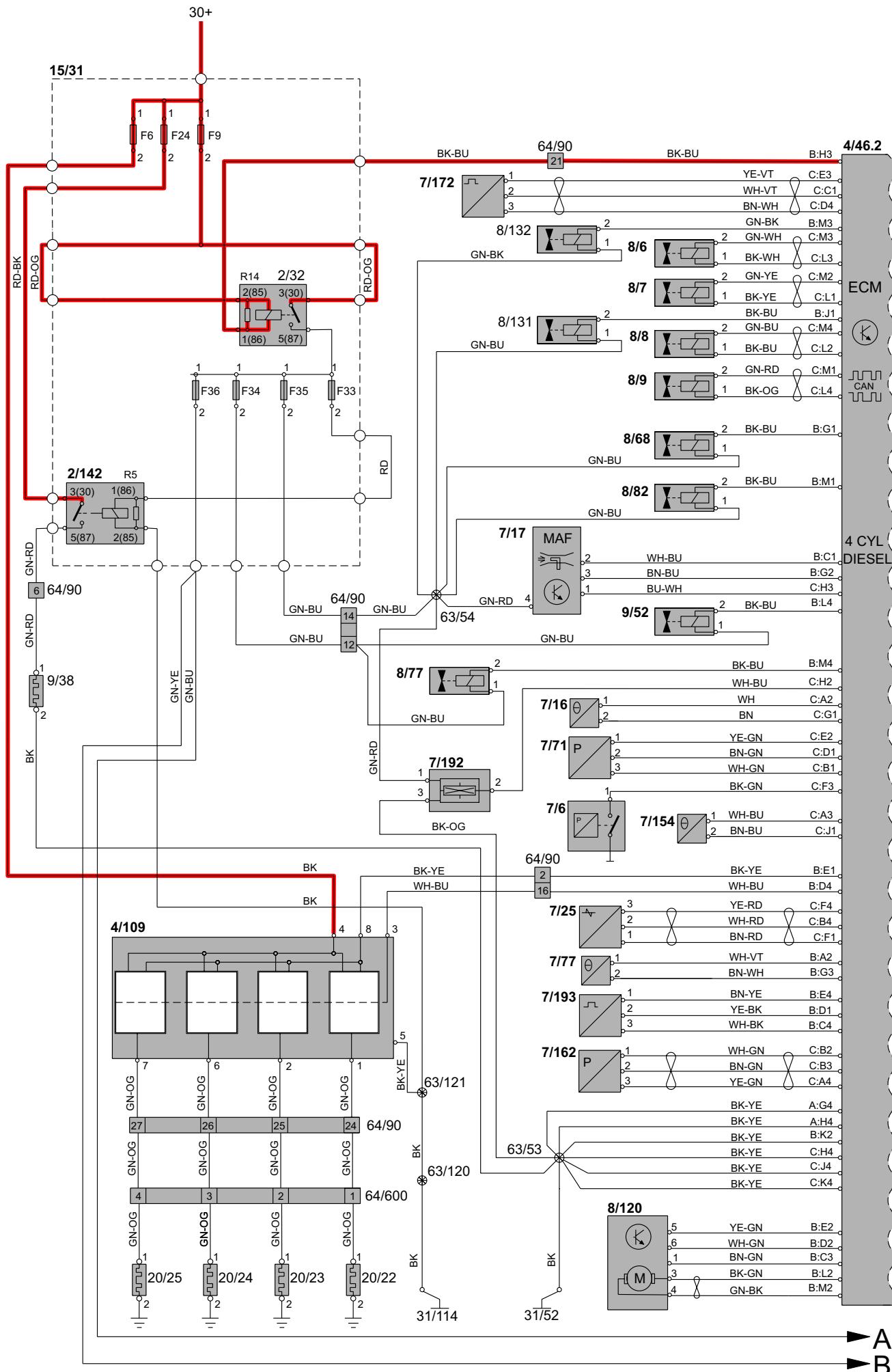
Group 23 Fuel system

Engine management system, 5-cyl Turbo 2:2



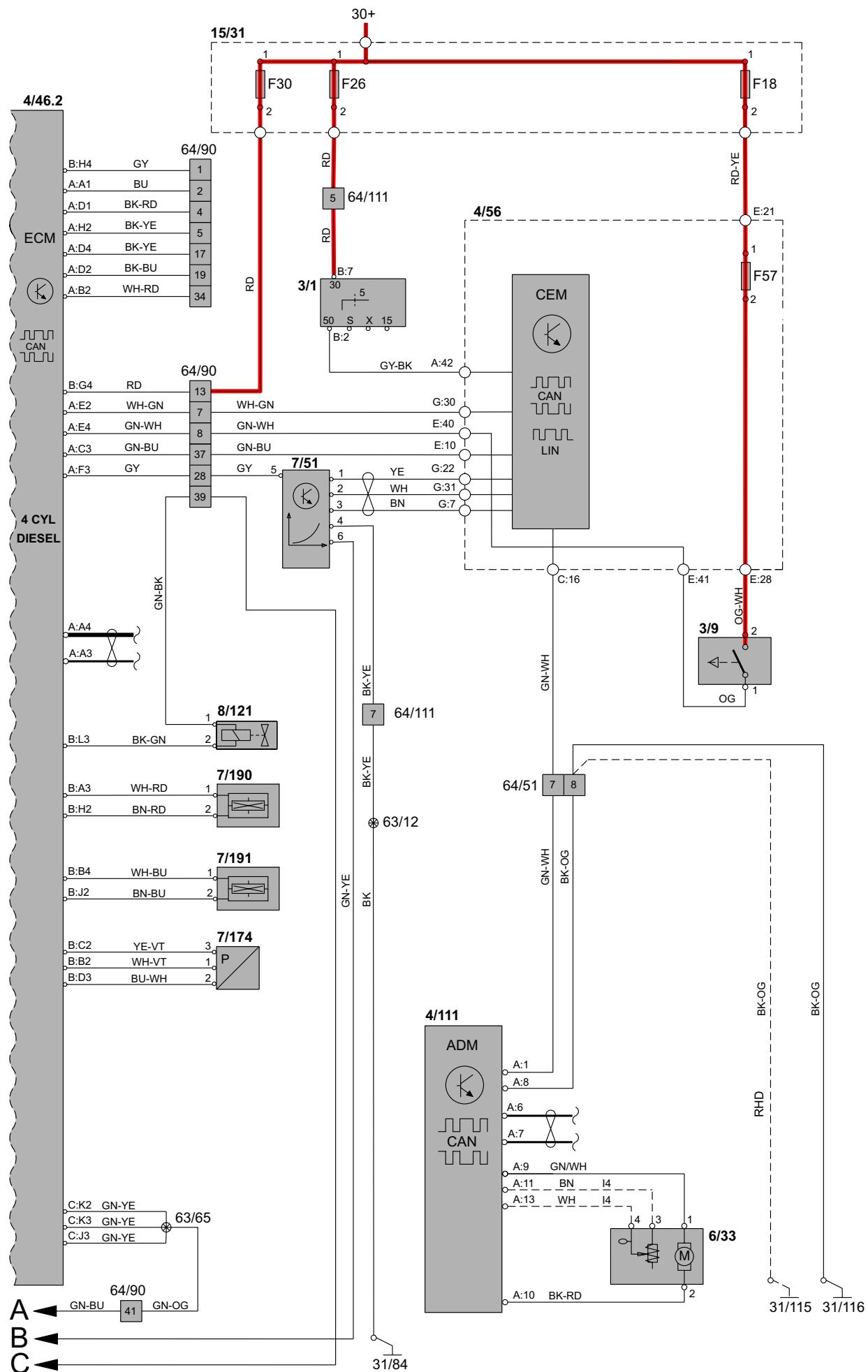
Group 23 Fuel system

Engine management system Diesel 1:2



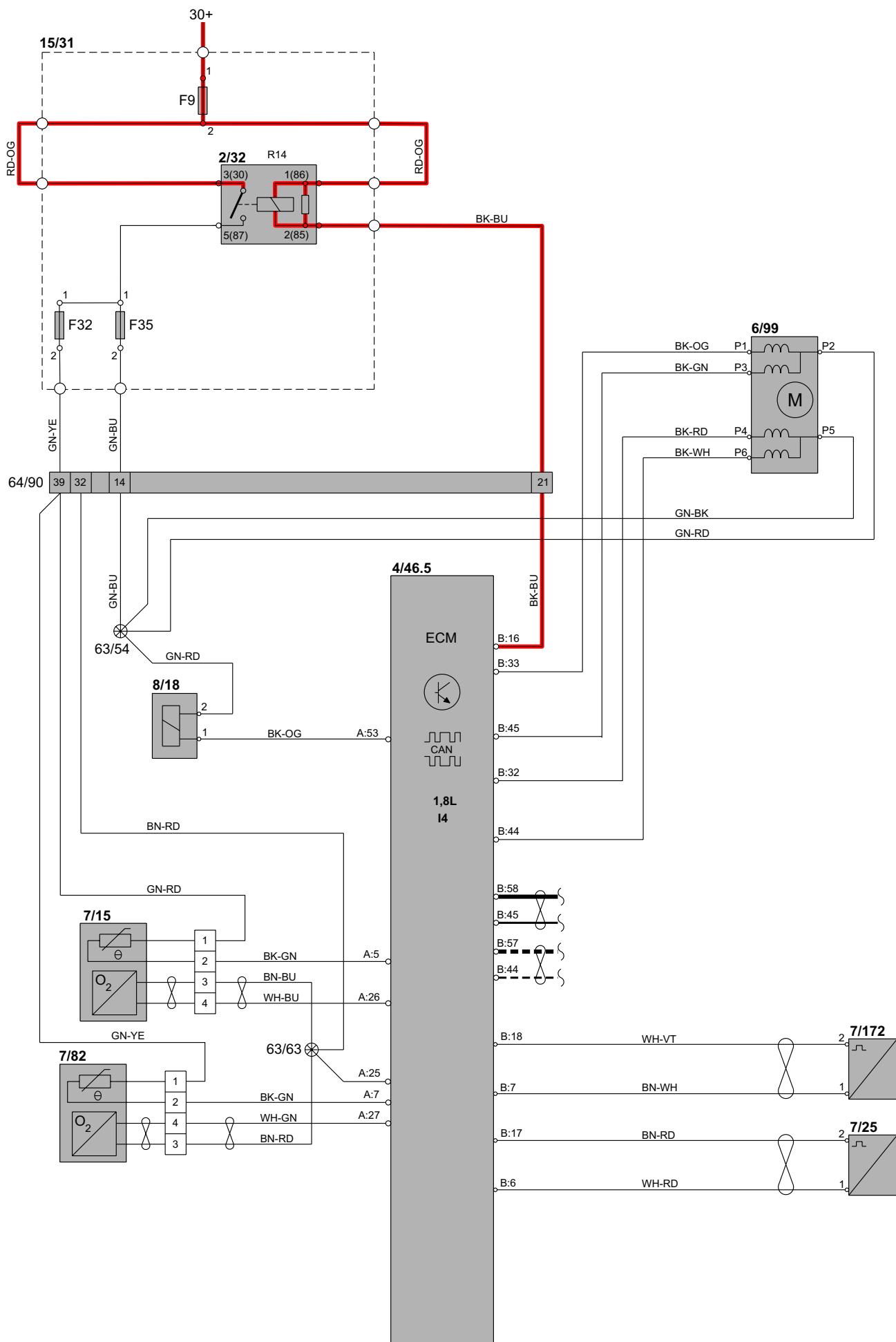
Group 23 Fuel system

Engine management system Diesel 2:2

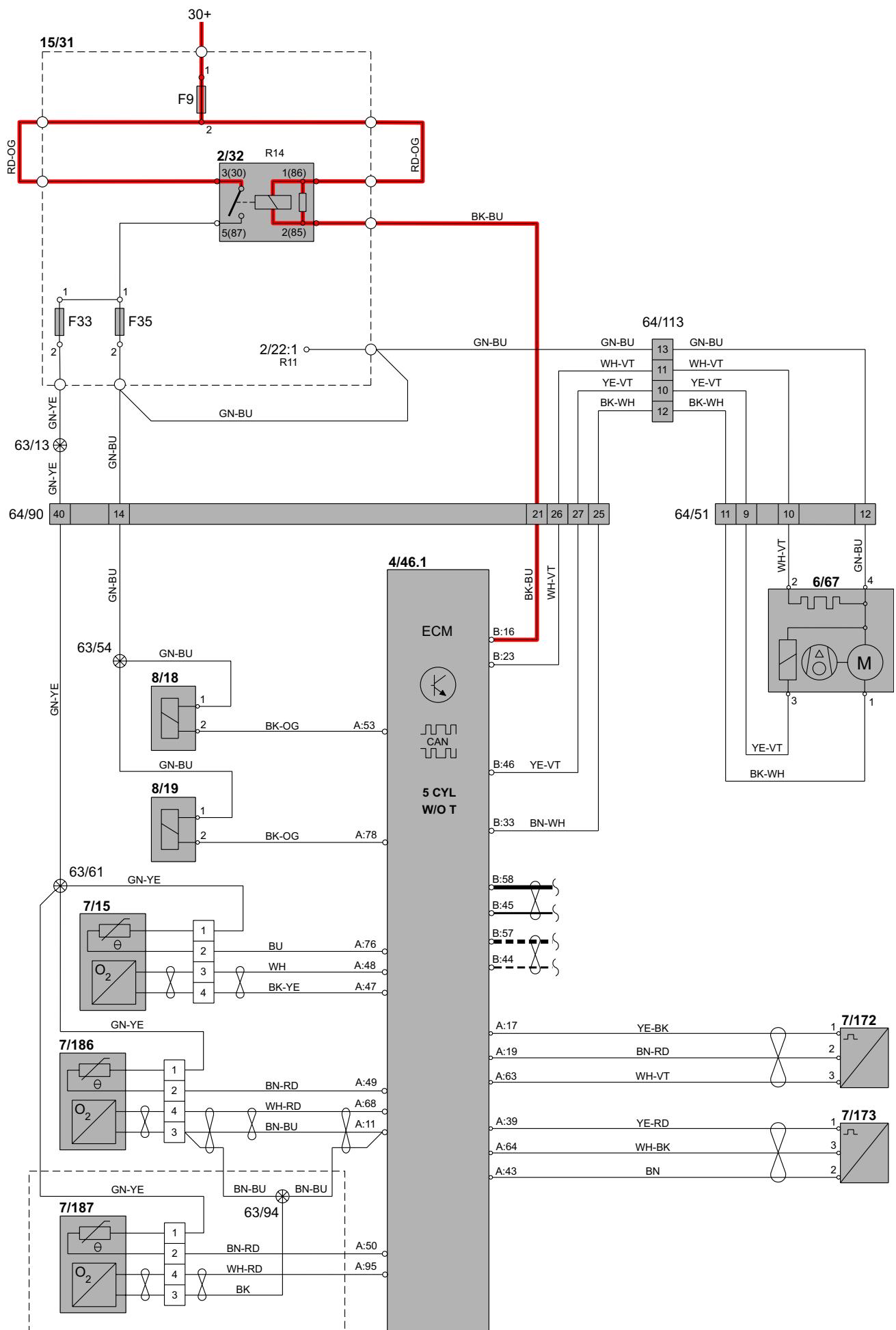


Group 23 Fuel system

Emission control 4-cyl 1.8l

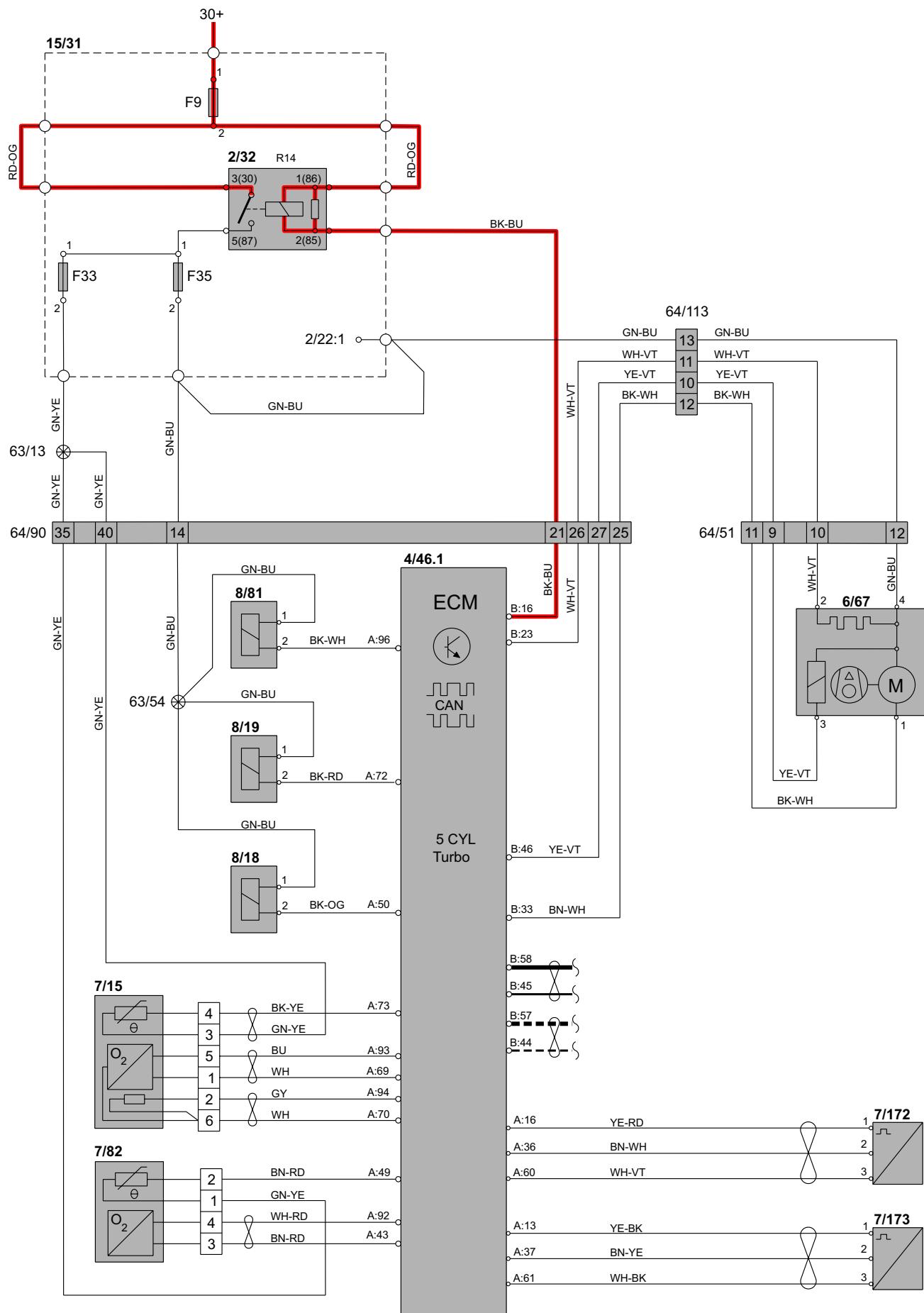


Group 23 Fuel system Emission control, 5-cyl



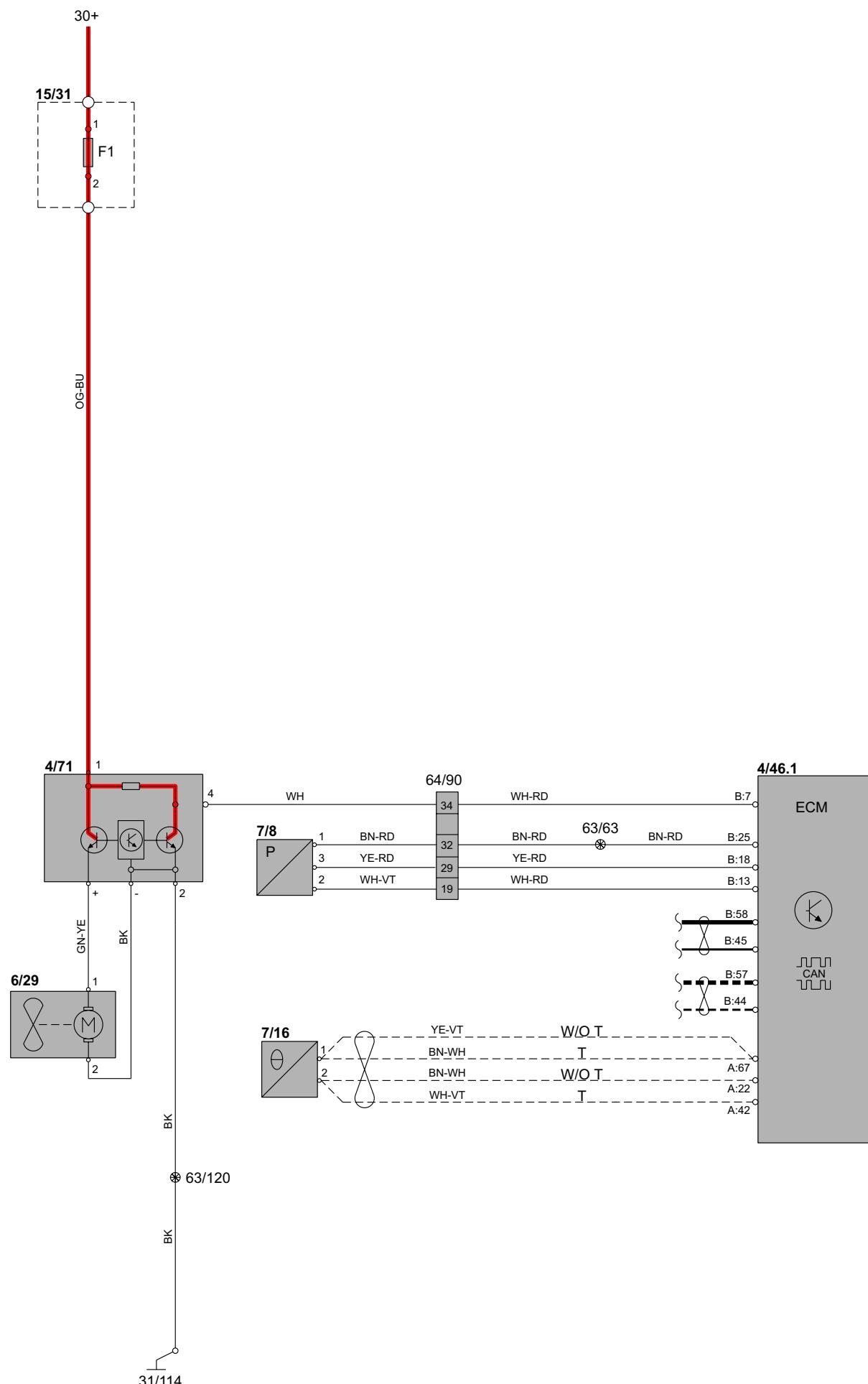
Group 23 Fuel system

Emission control, 5-cyl Turbo



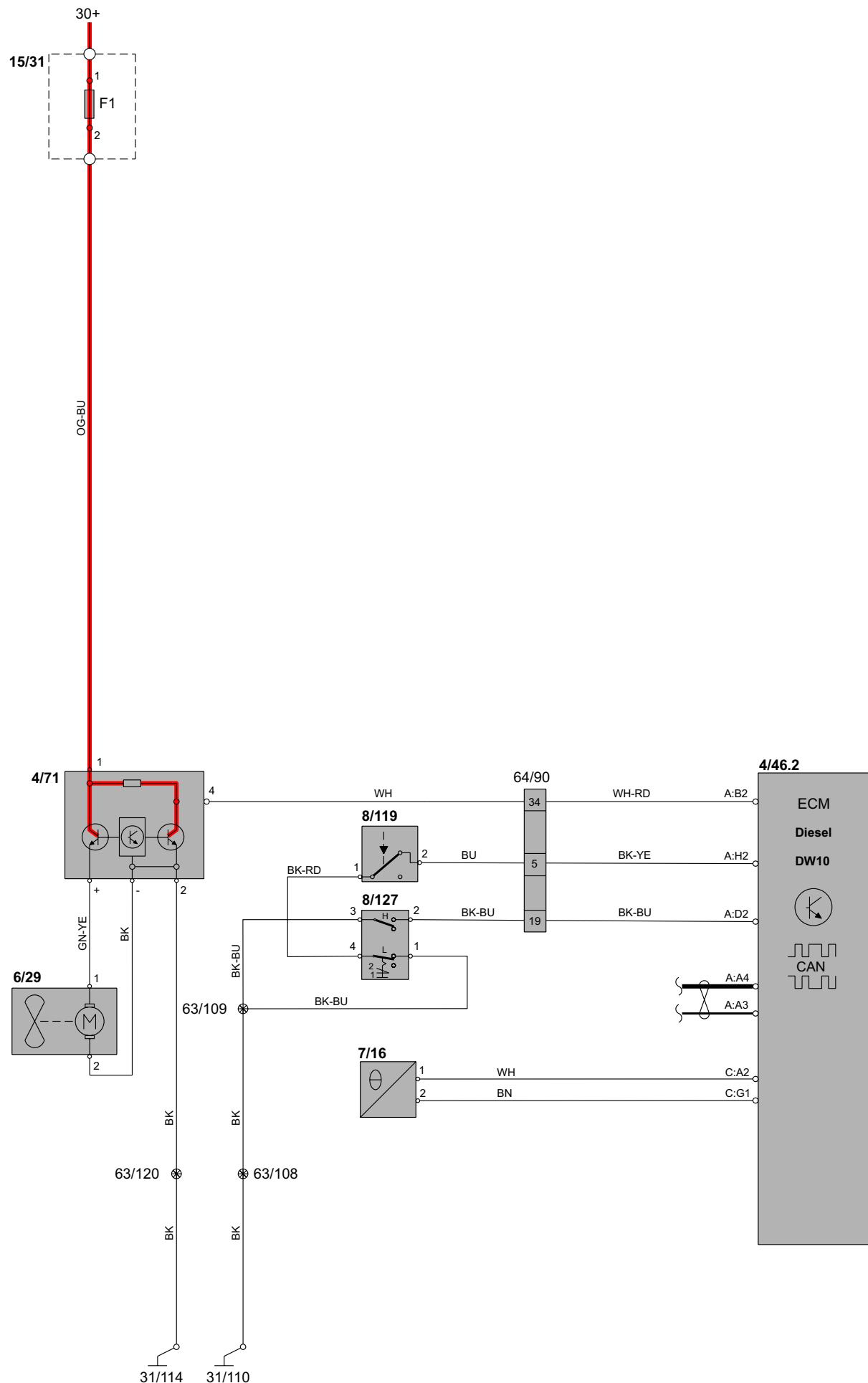
Group 26 Cooling system

Cooling fan



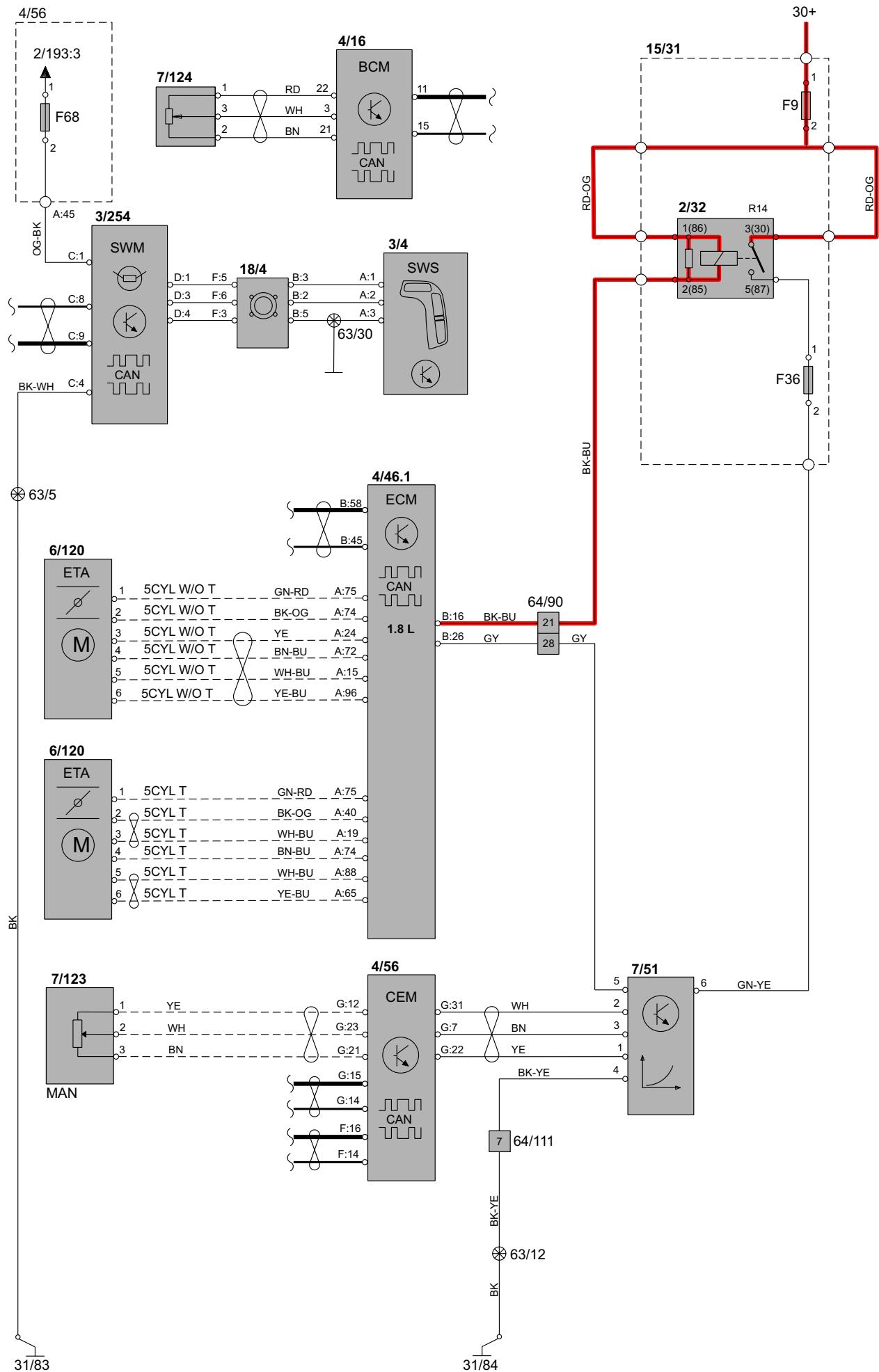
Group 26 Cooling system

Cooling fan Diesel



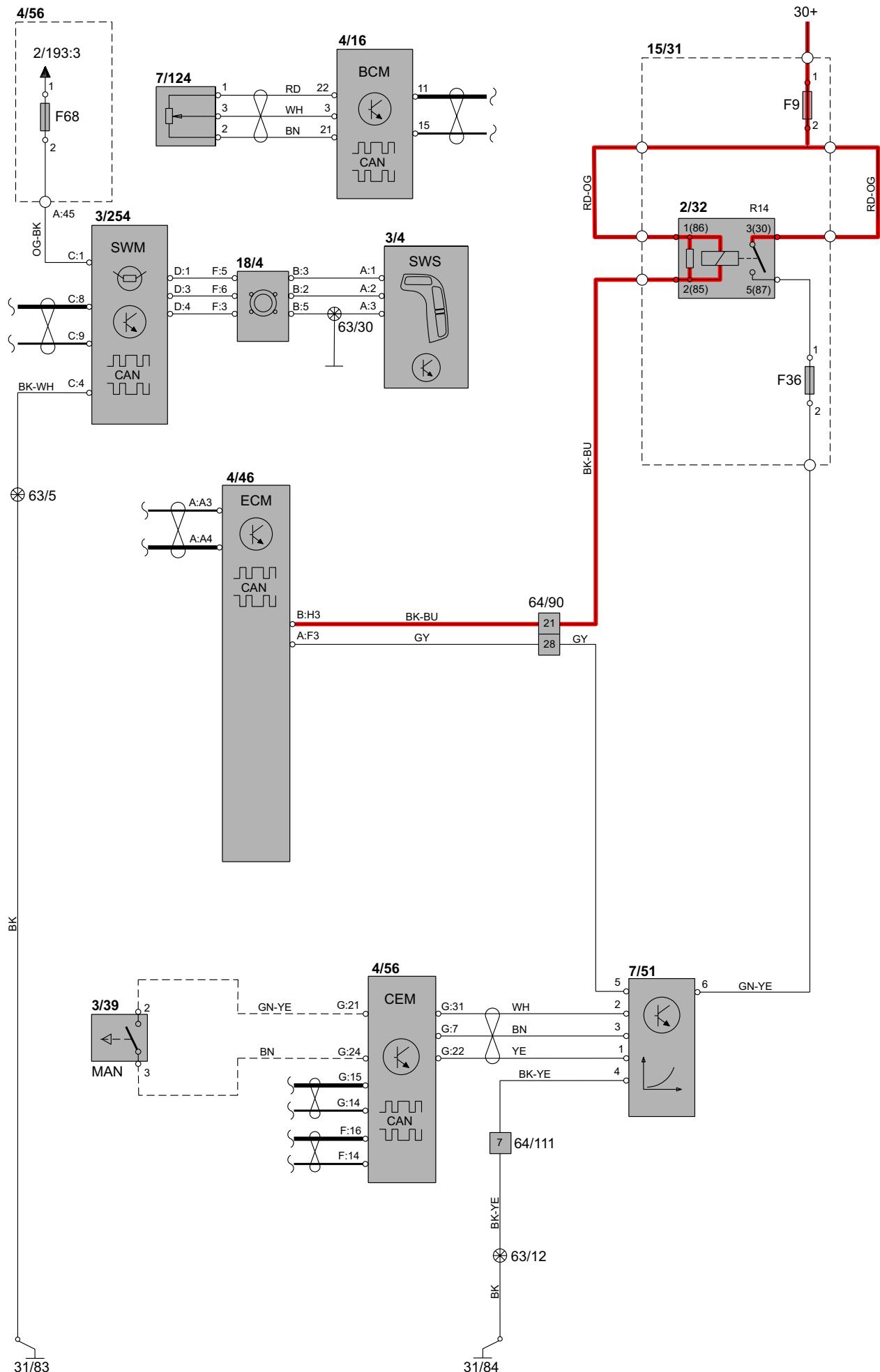
Group 27 Engine control

Cruise control

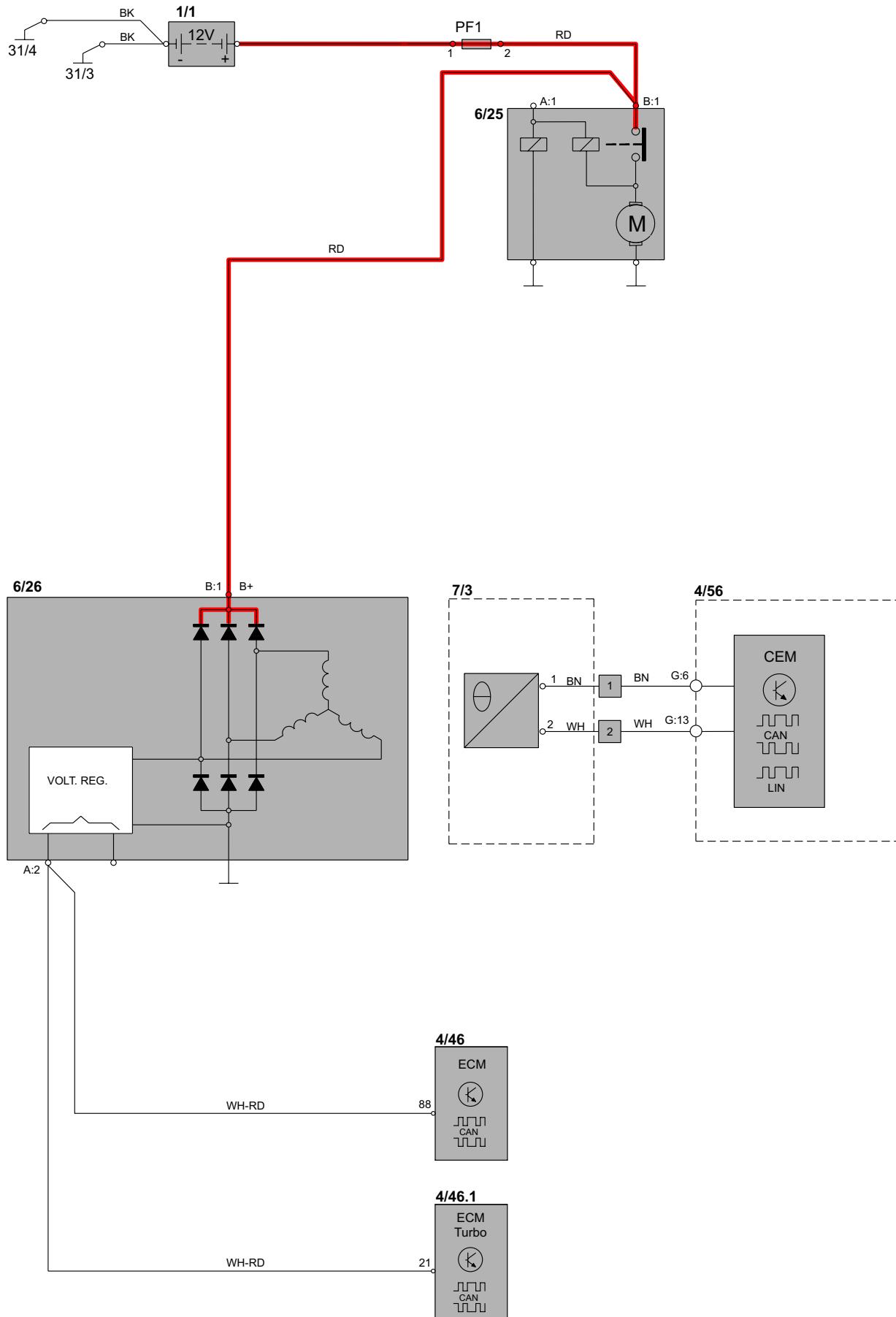


Group 27 Engine control

Cruise control, Diesel

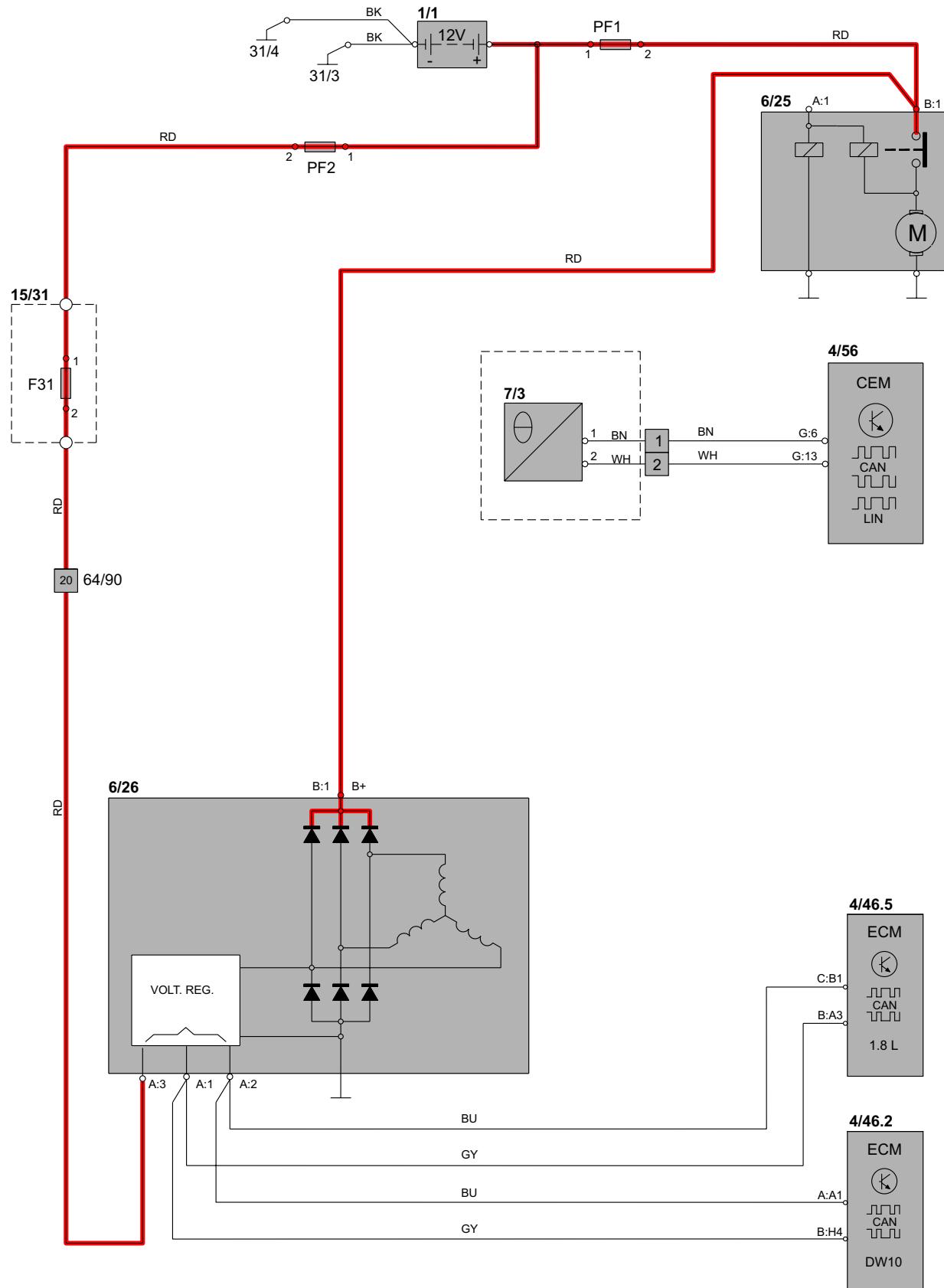


Group 32 Alternator and voltage regulator Power supply



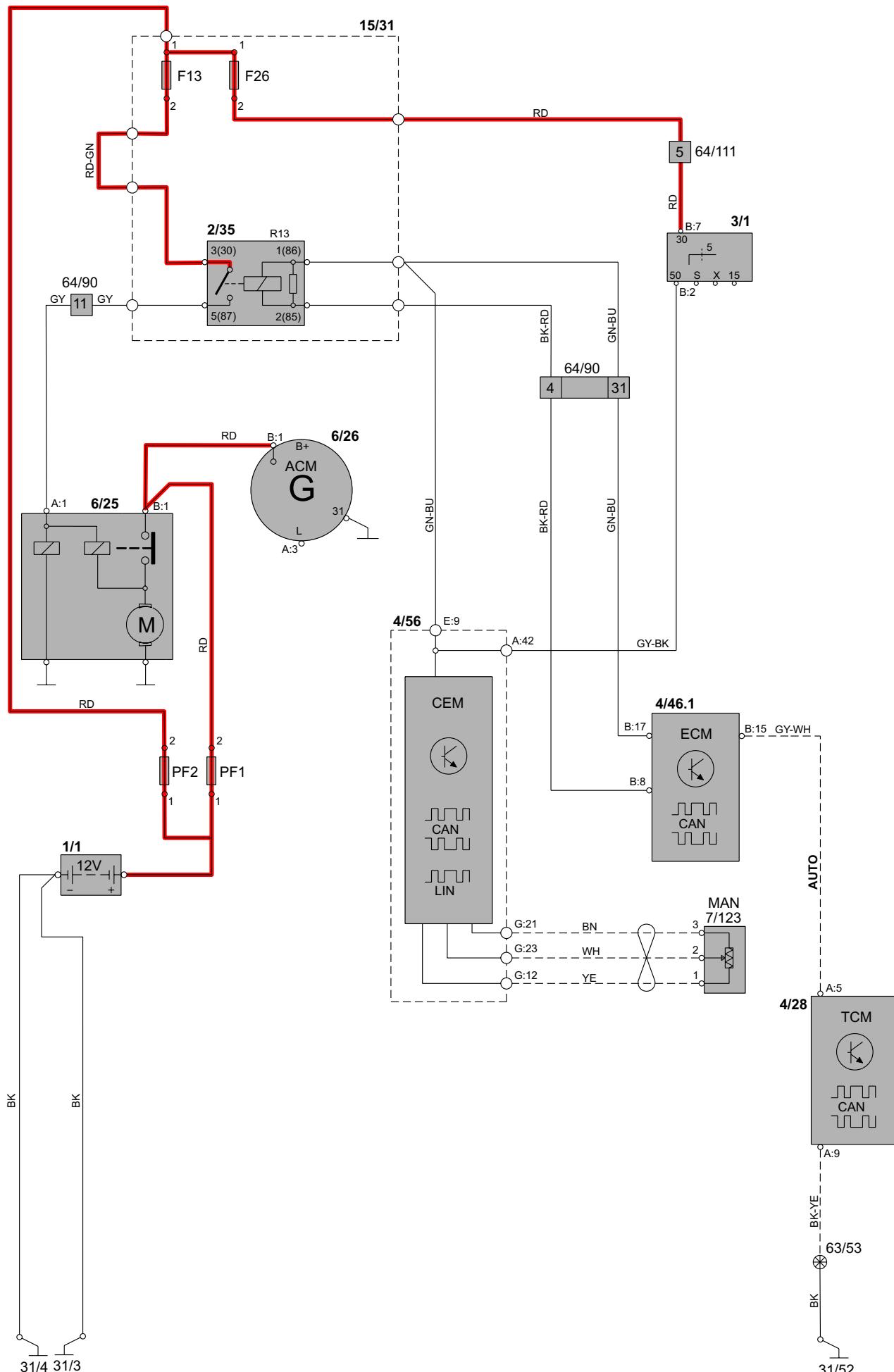
Group 32 Alternator and voltage regulator

Power supply, Diesel



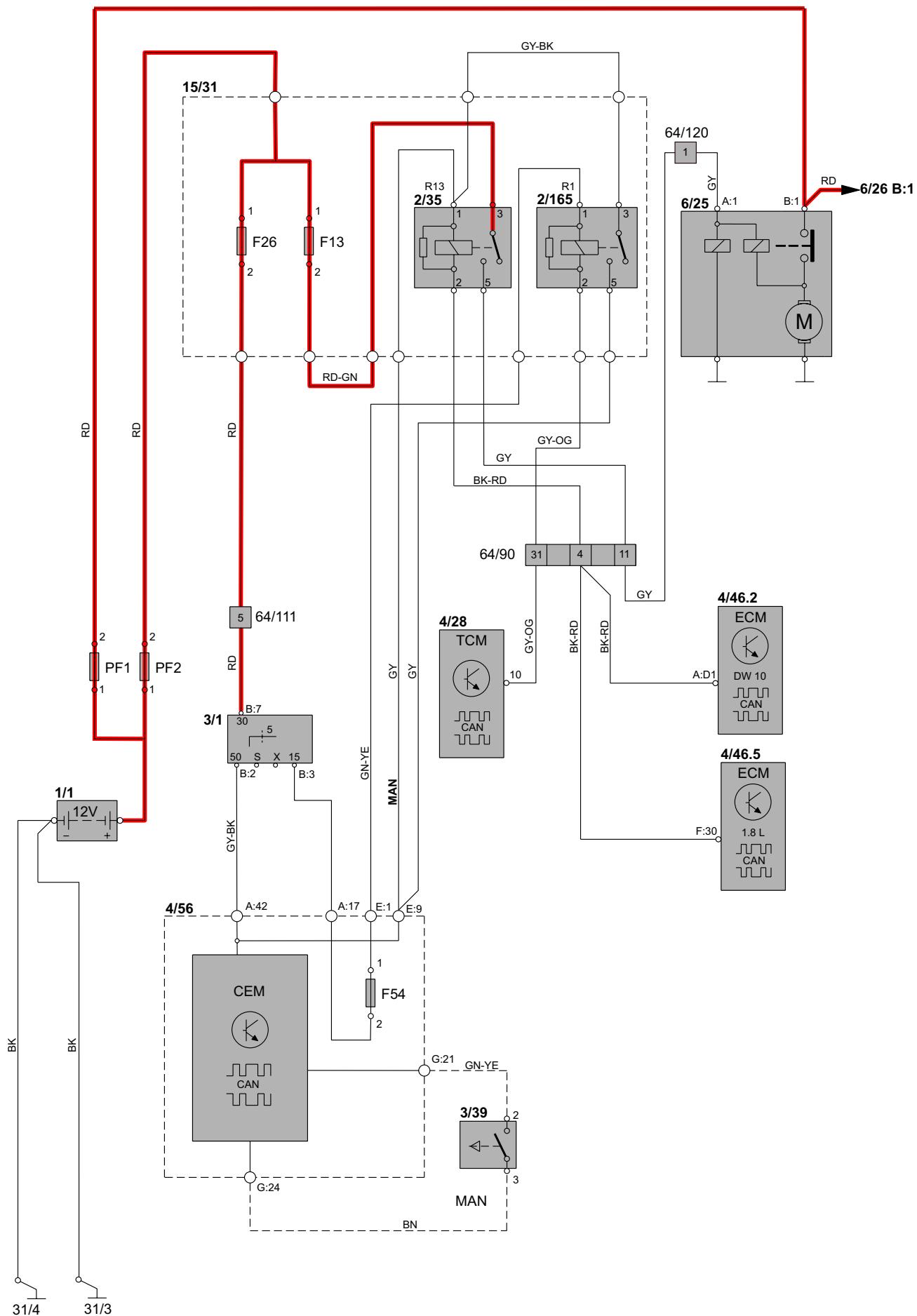
Group 33 Starting system

Starting system



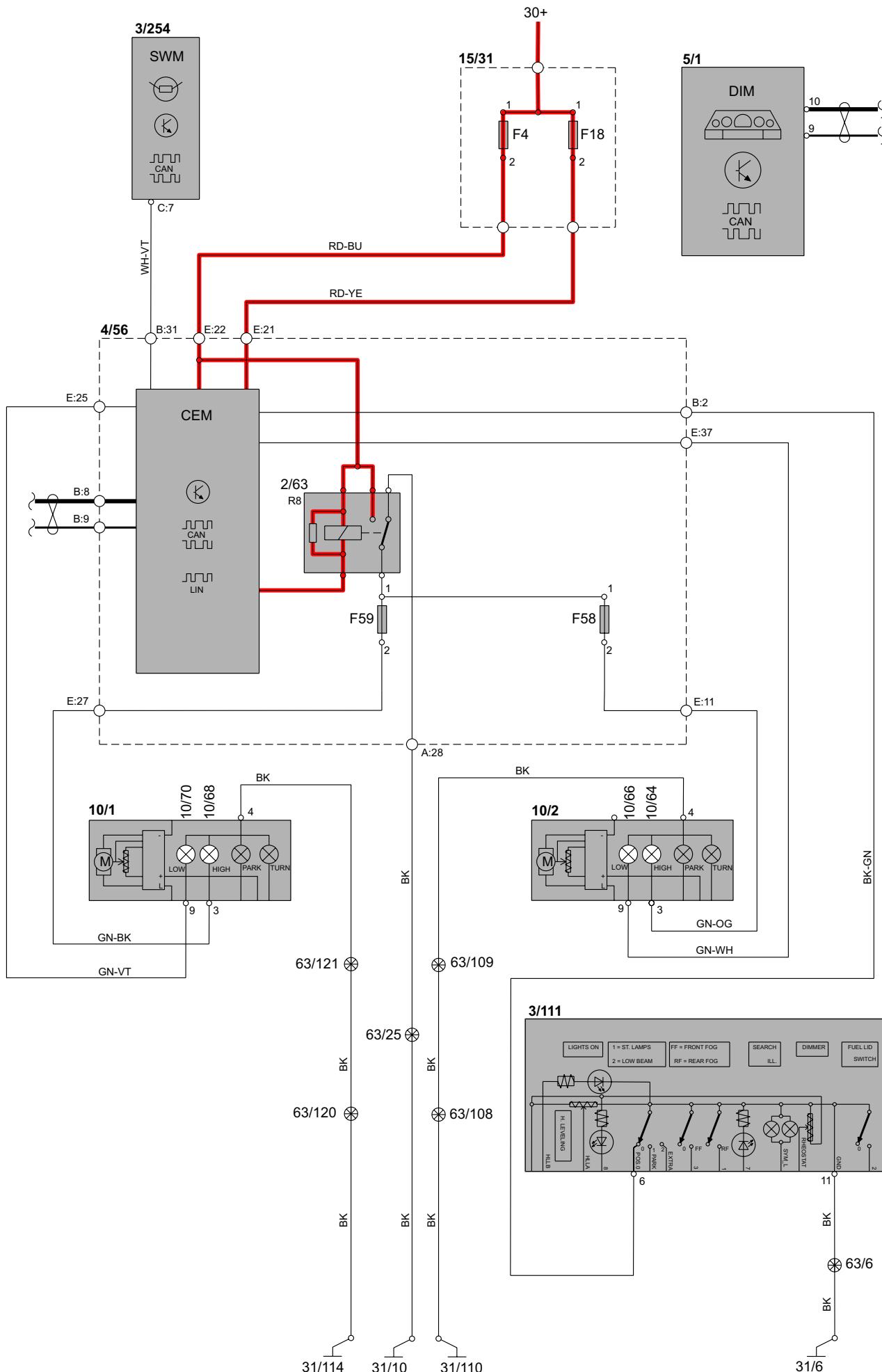
Group 33 Starting system

Starting system, Diesel



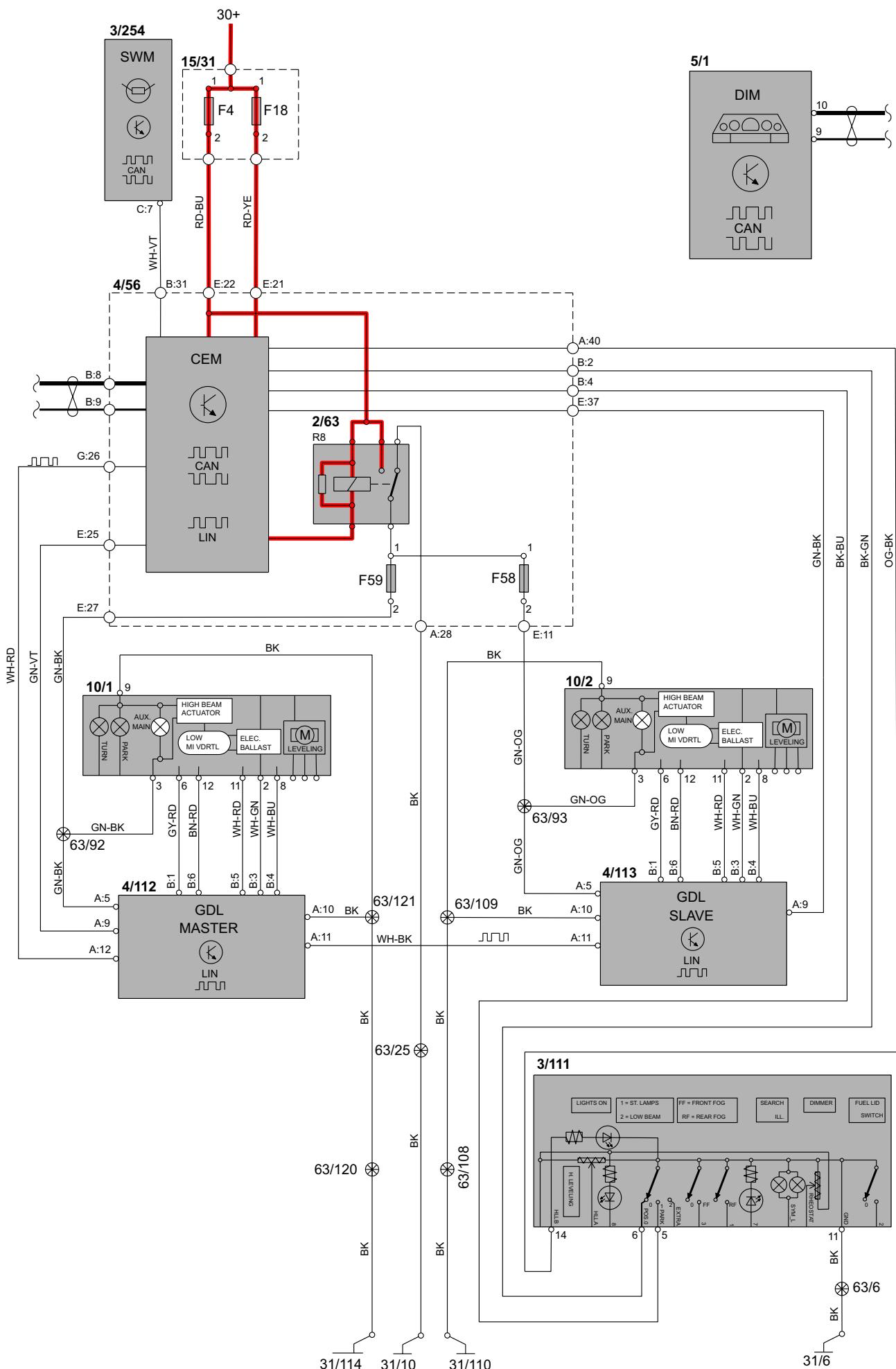
Group 35 Lighting

High and low beam



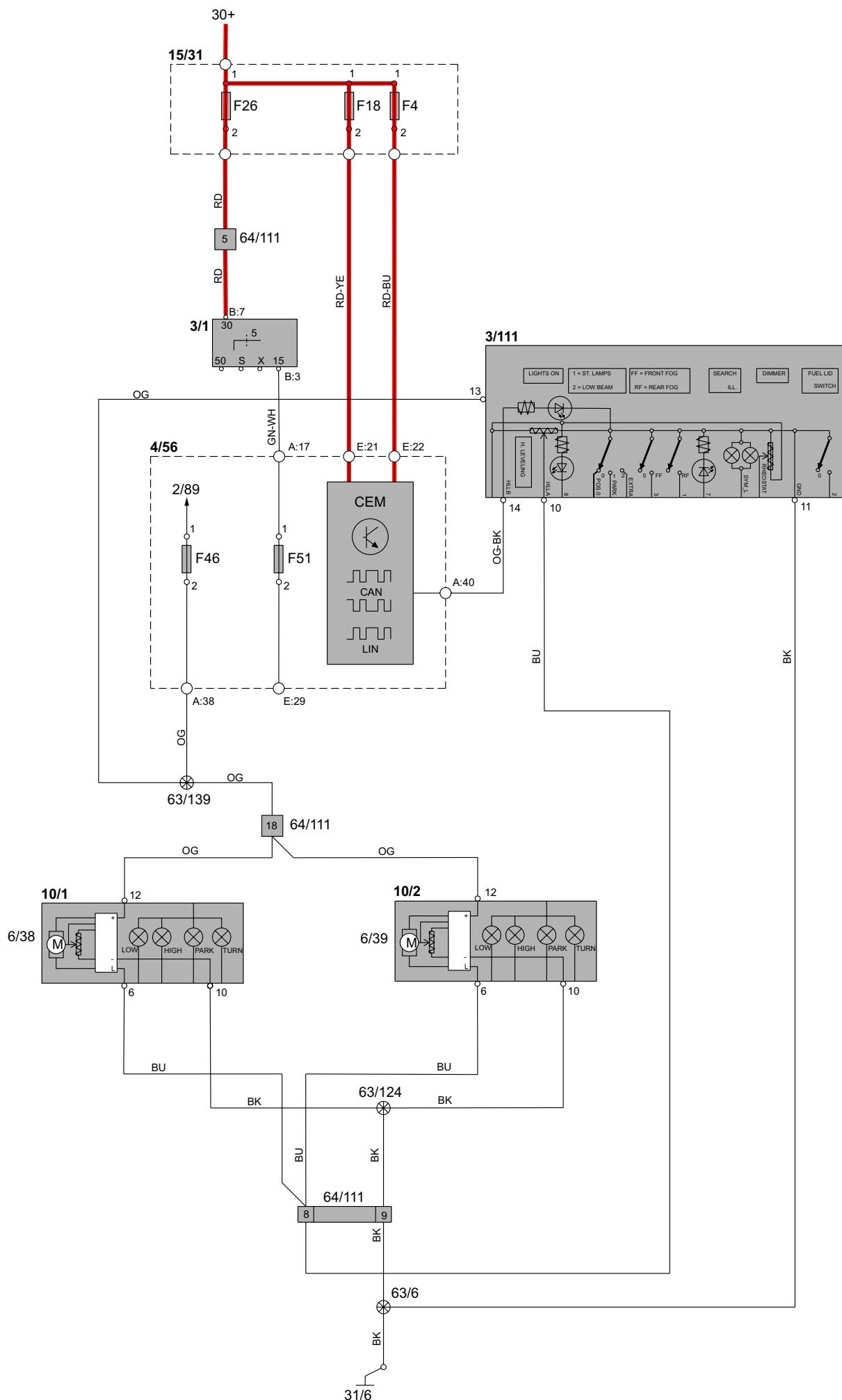
Group 35 Lighting

High and low beam (Bi-Xenon)



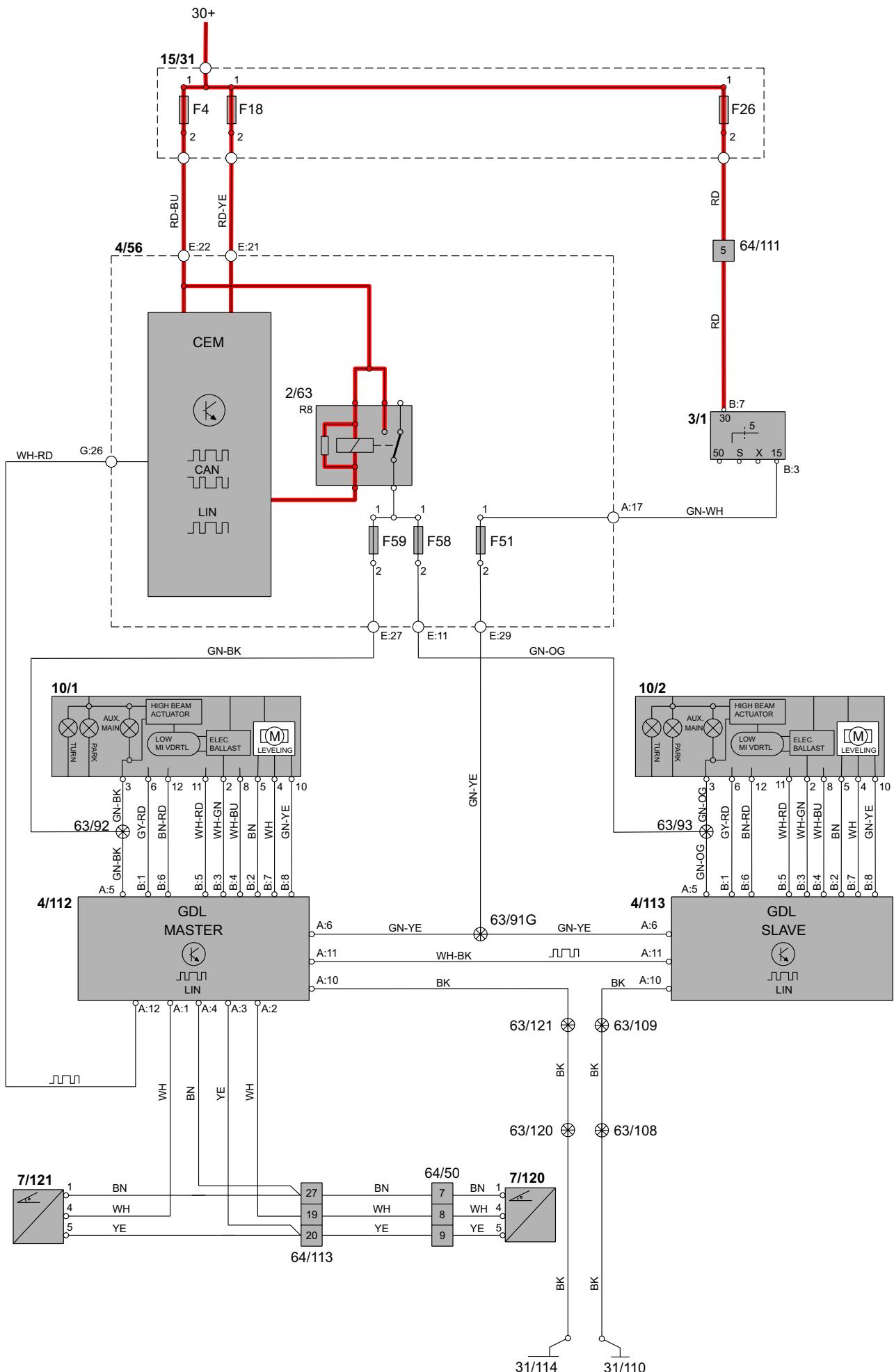
Group 35 Lighting

Manual beam length adjustment



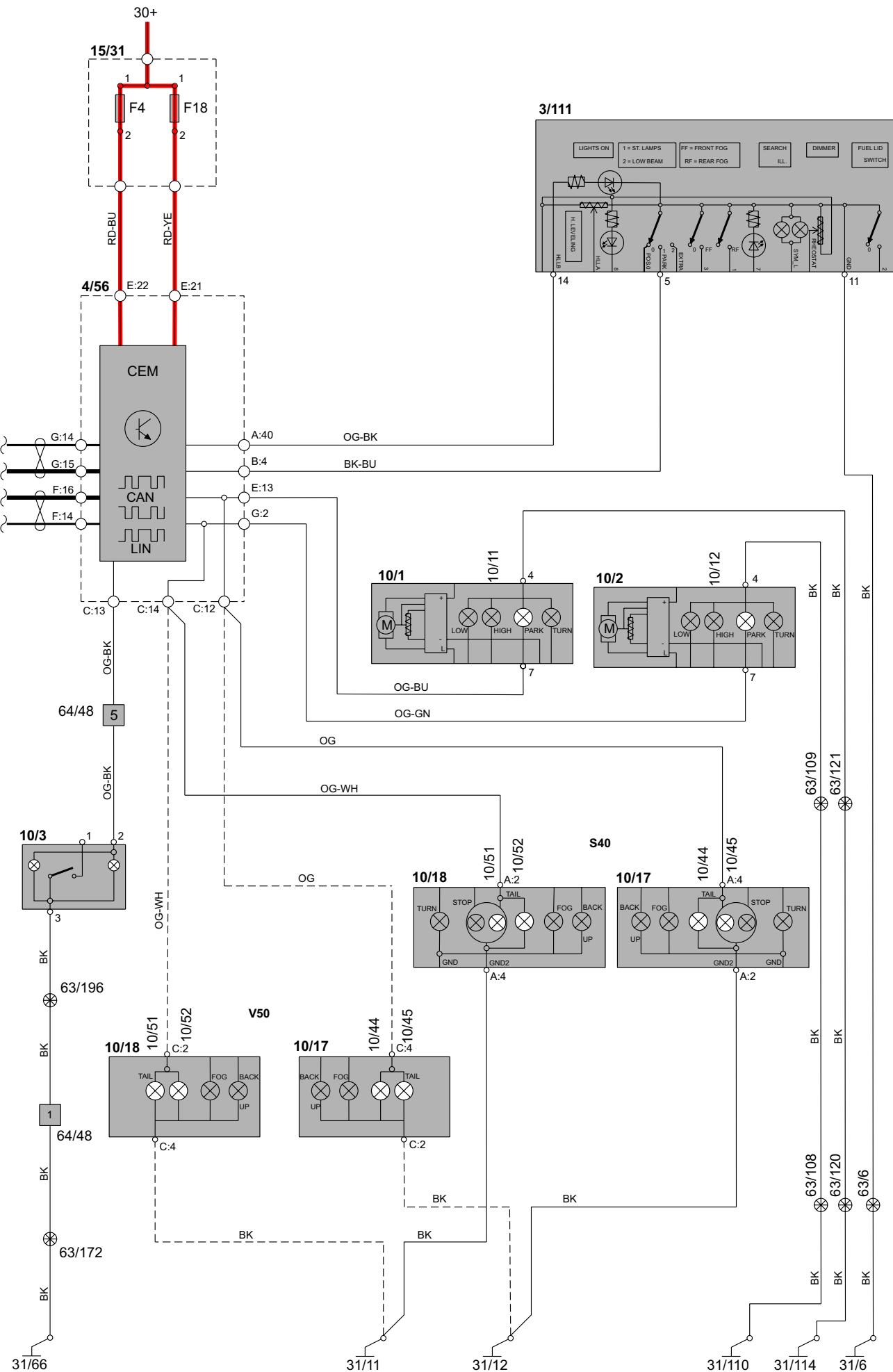
Group 35 Lighting

Automatic head light leveling (Bi-Xenon)



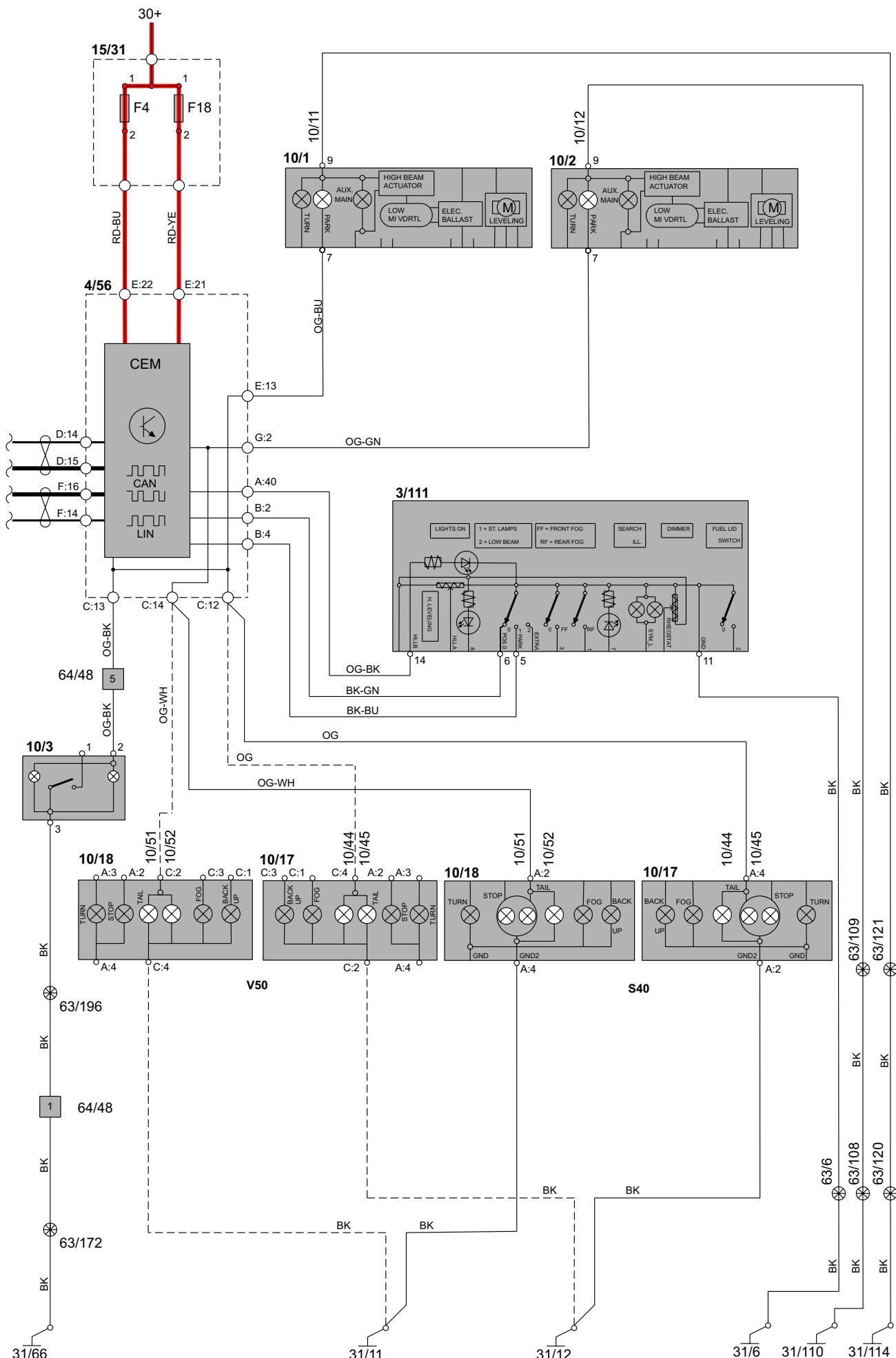
Group 35 Lighting

Running/Parking lights, Tail lights



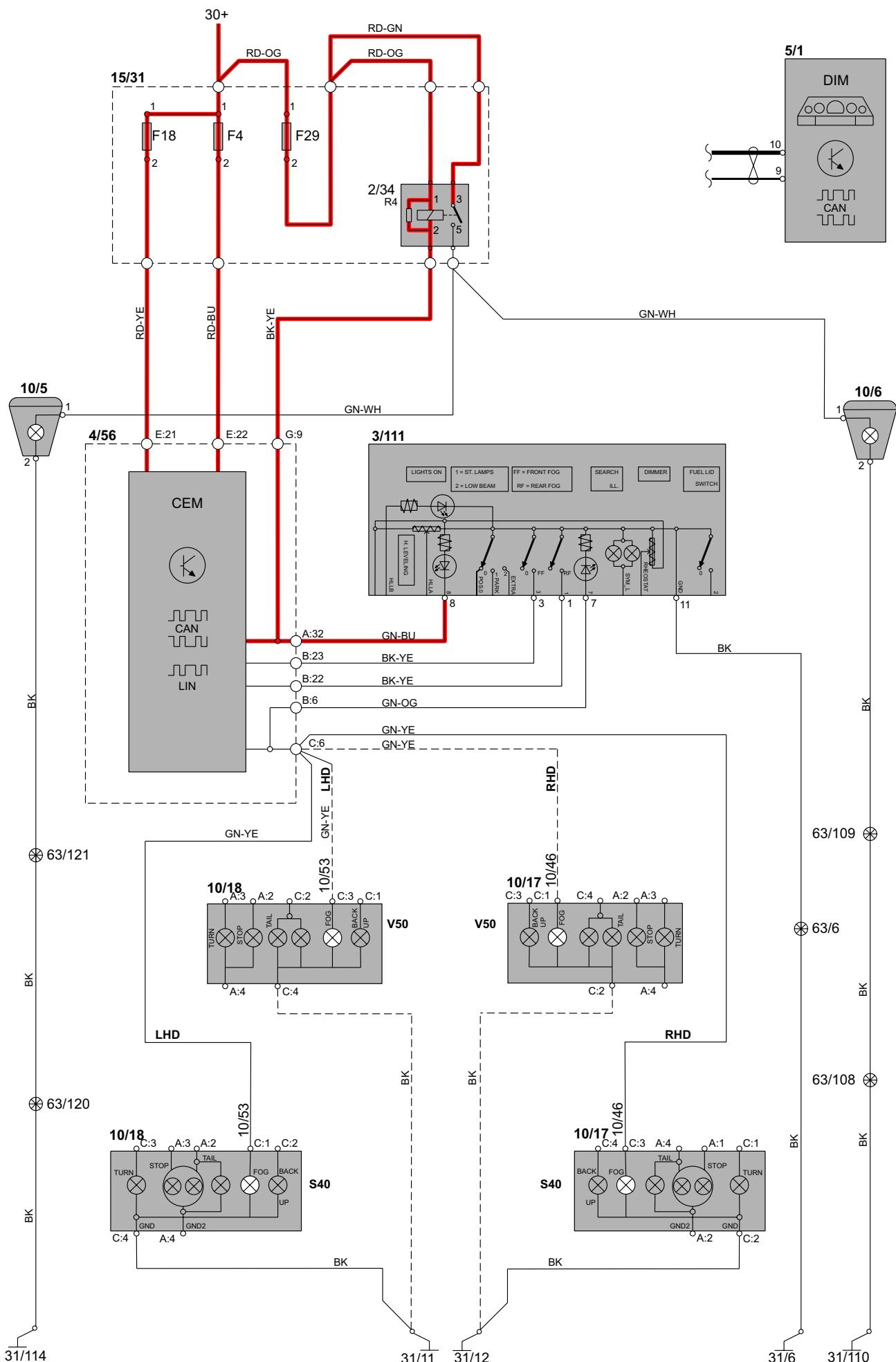
Group 35 Lighting

Running/Parking lights, Tail lights (Bi-Xenon)



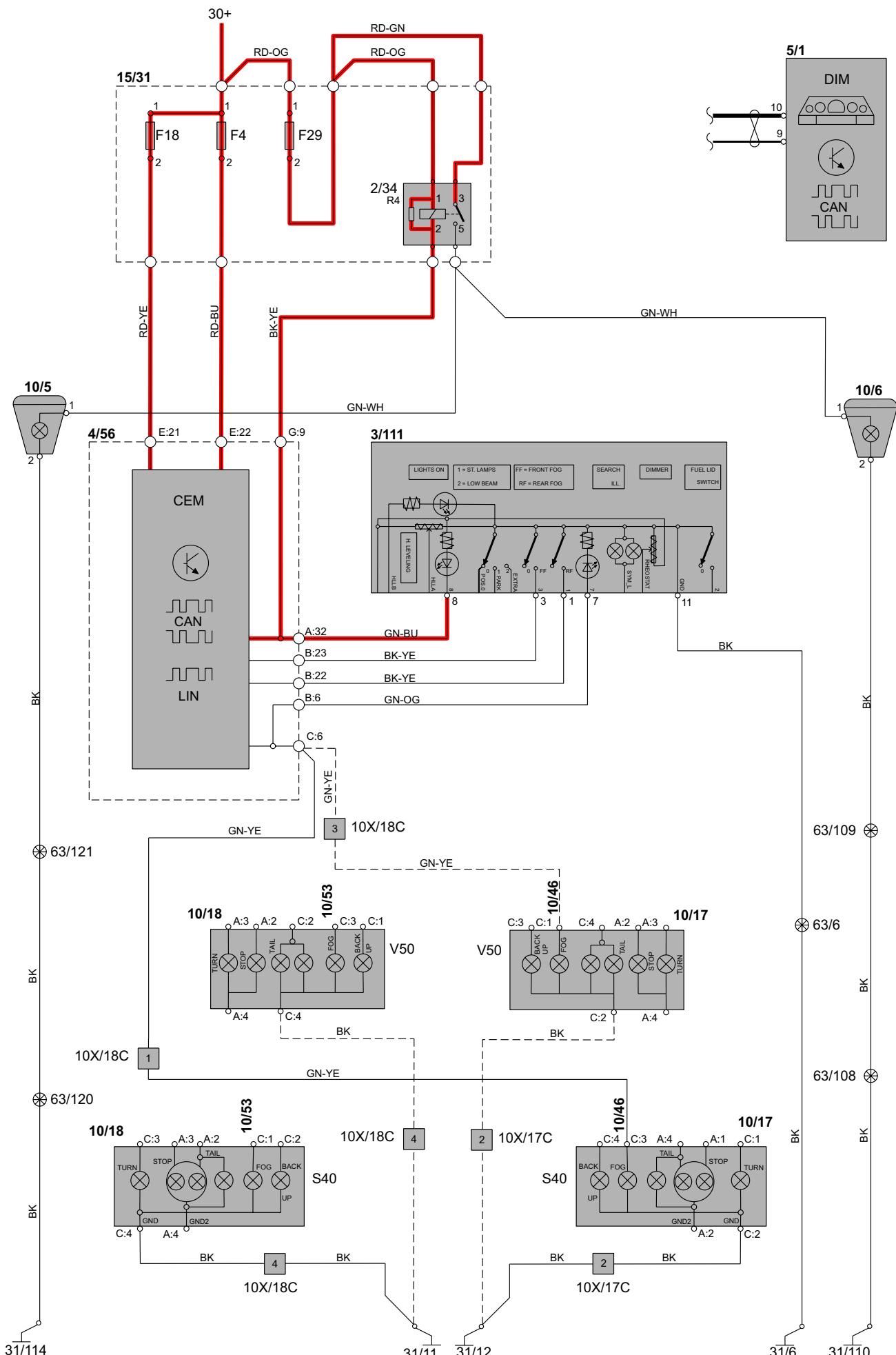
Group 35 Lighting

Fog lights



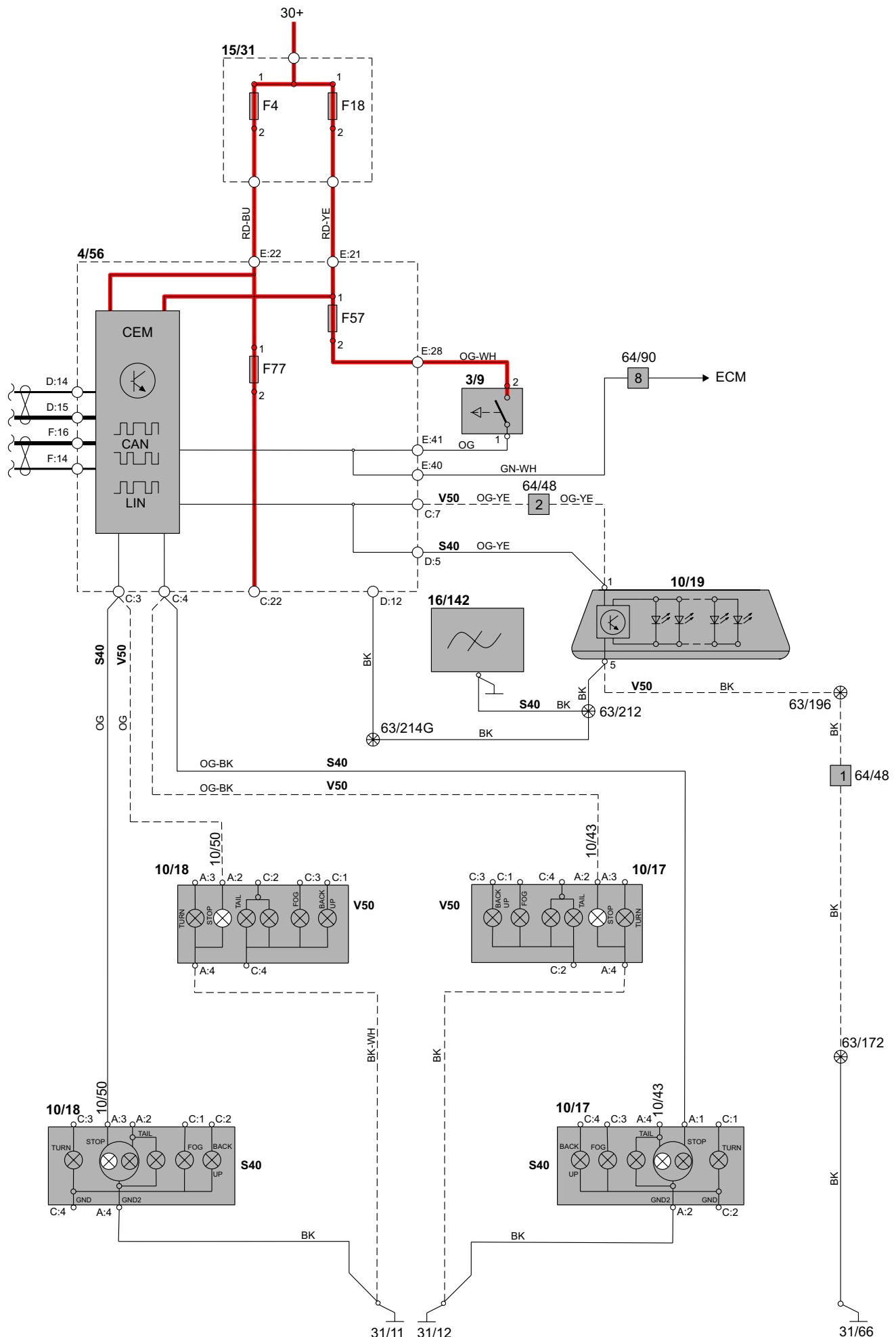
Group 35 Lighting

Fog lights LHD, Japan

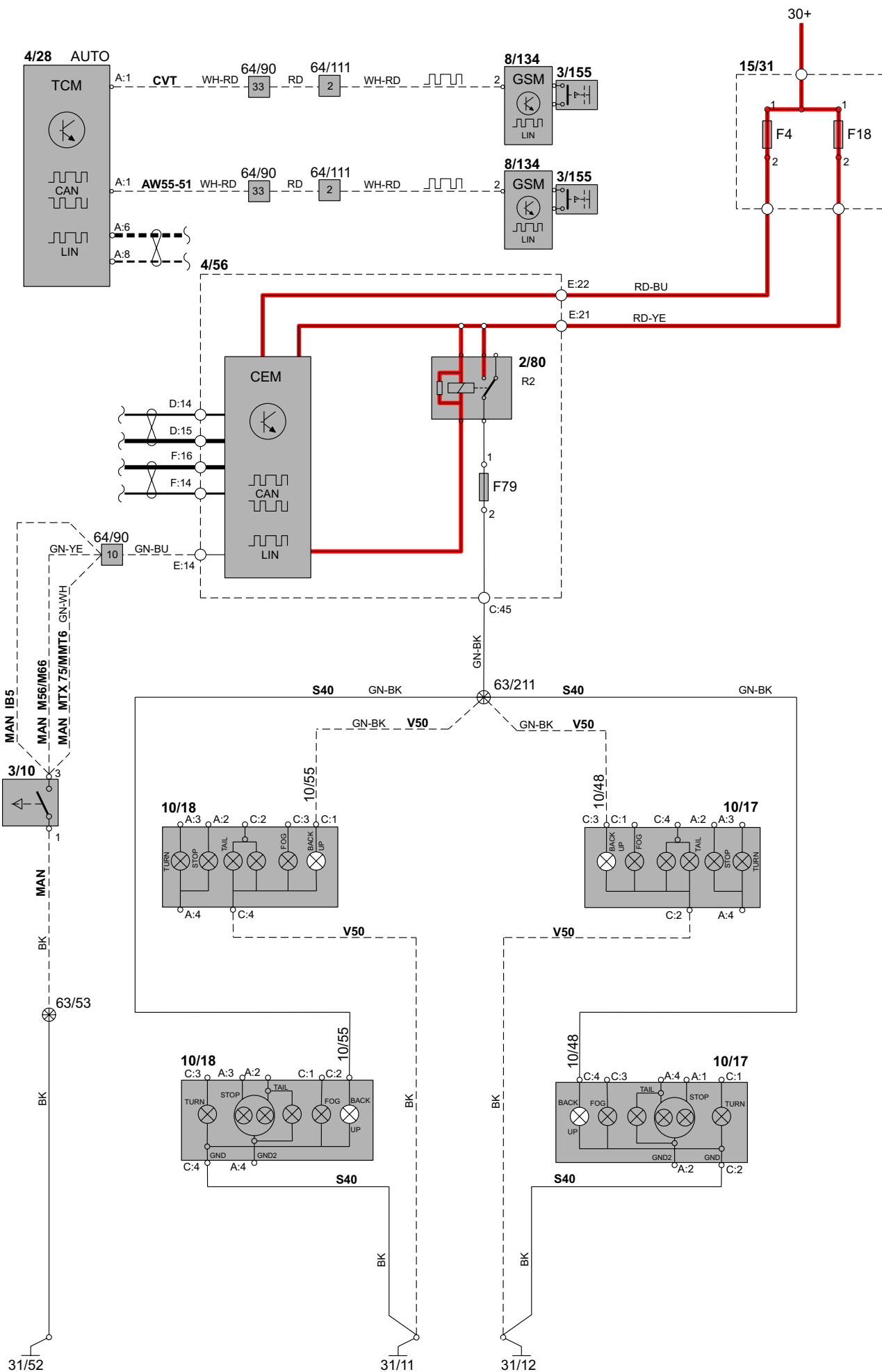


Group 35 Lighting

Brake lights

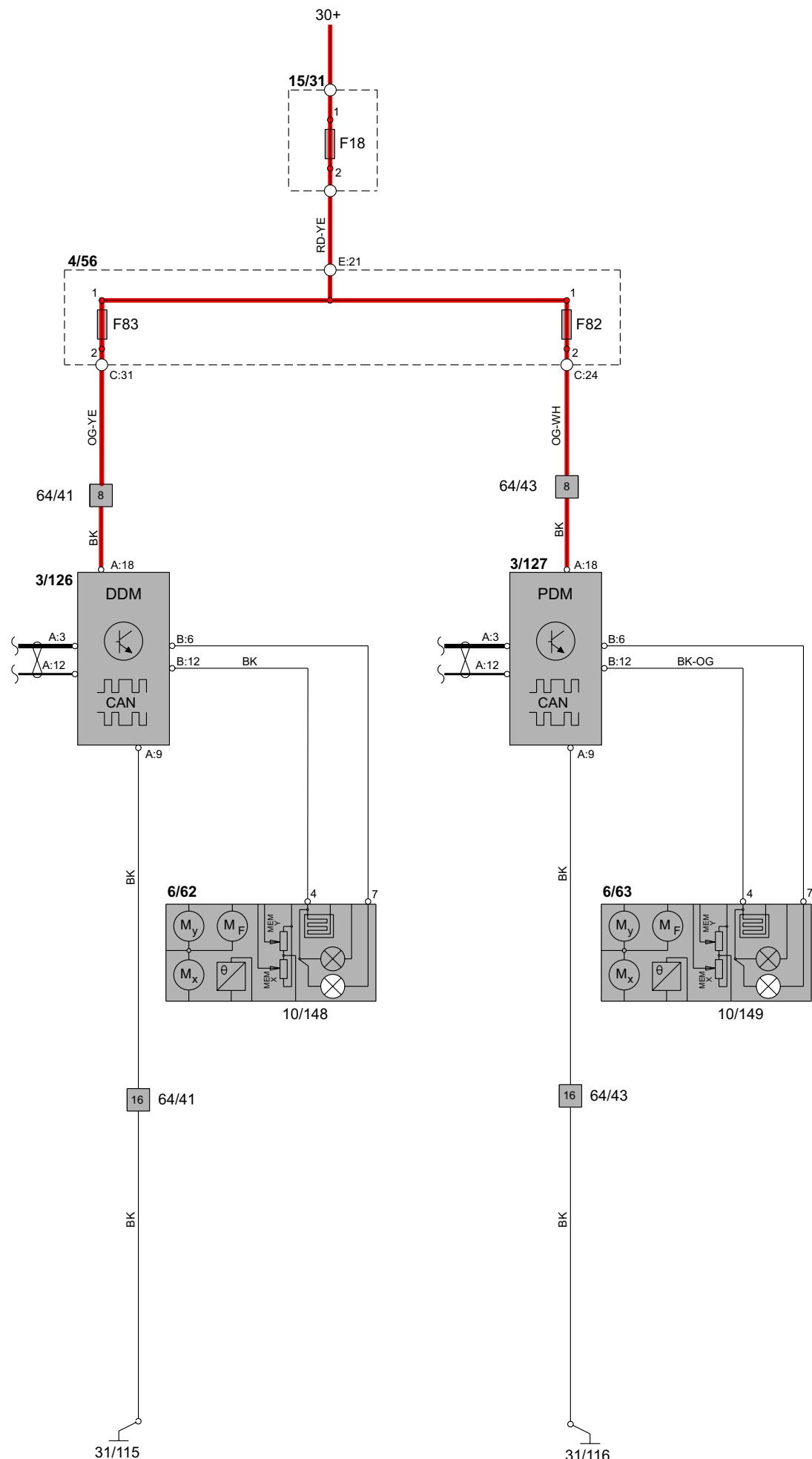


Group 35 Lighting Reversing lights



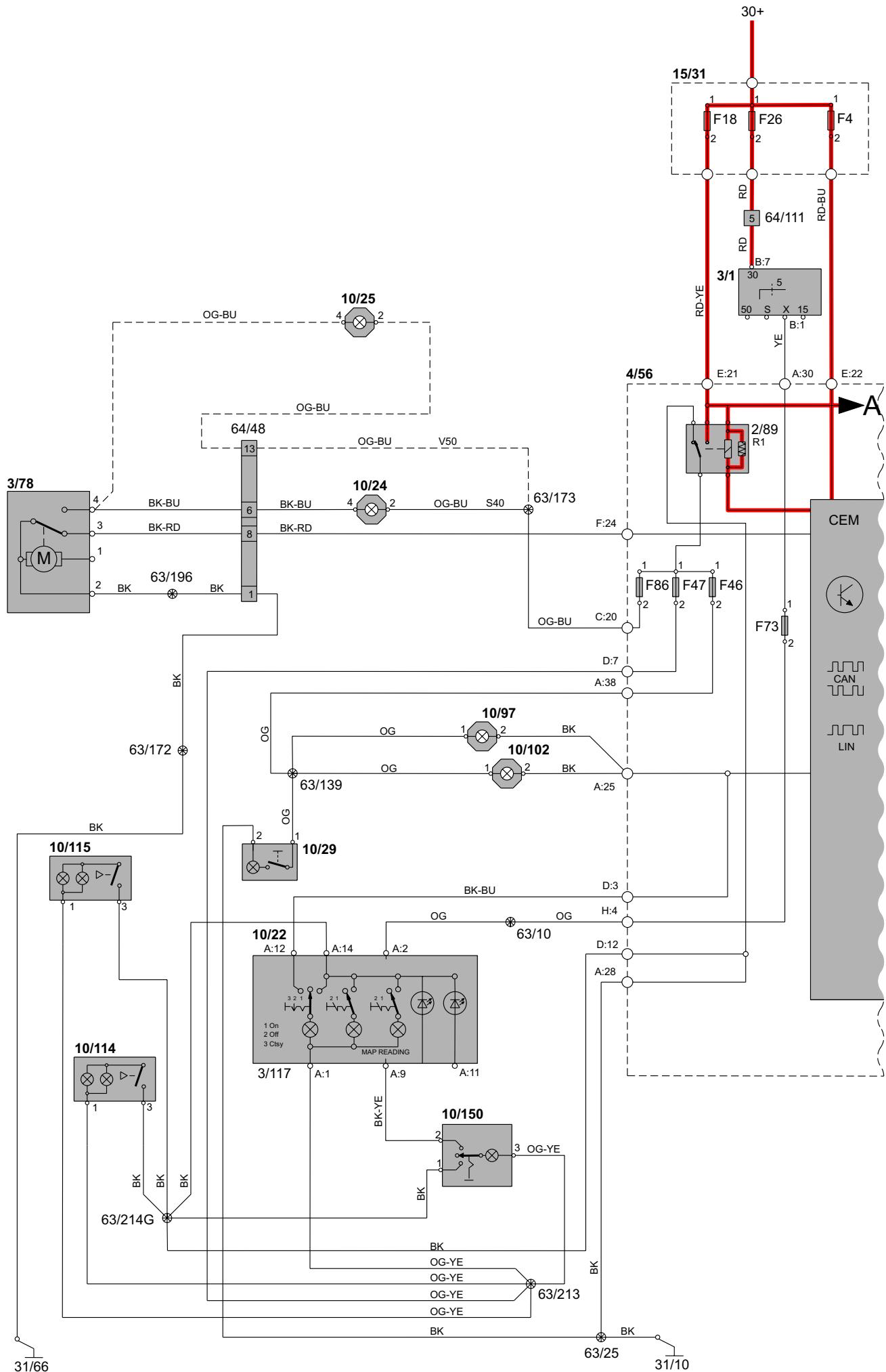
Group 35 Lighting

Follow-me-home lighting



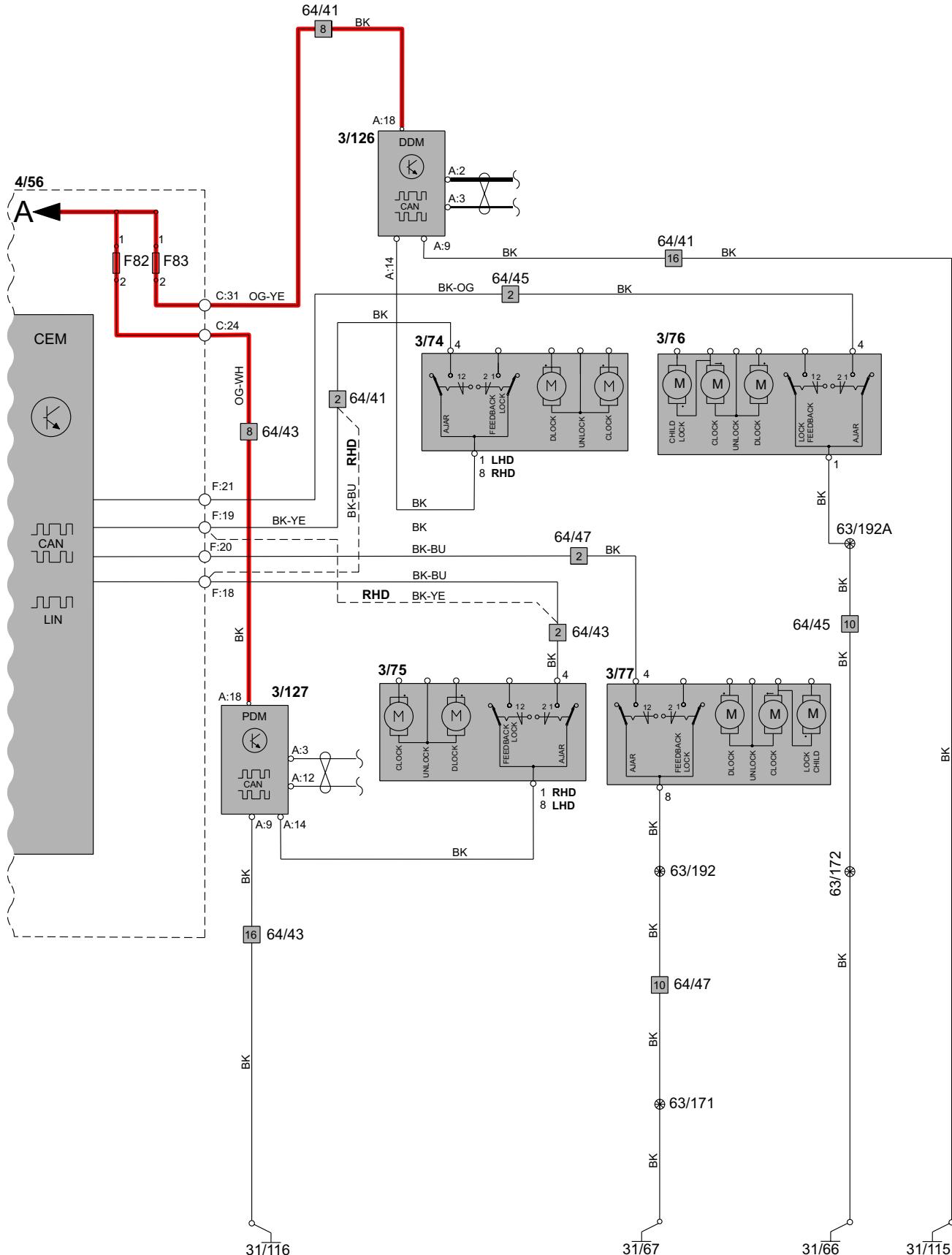
Group 35 Lighting

Interior lighting 1:2



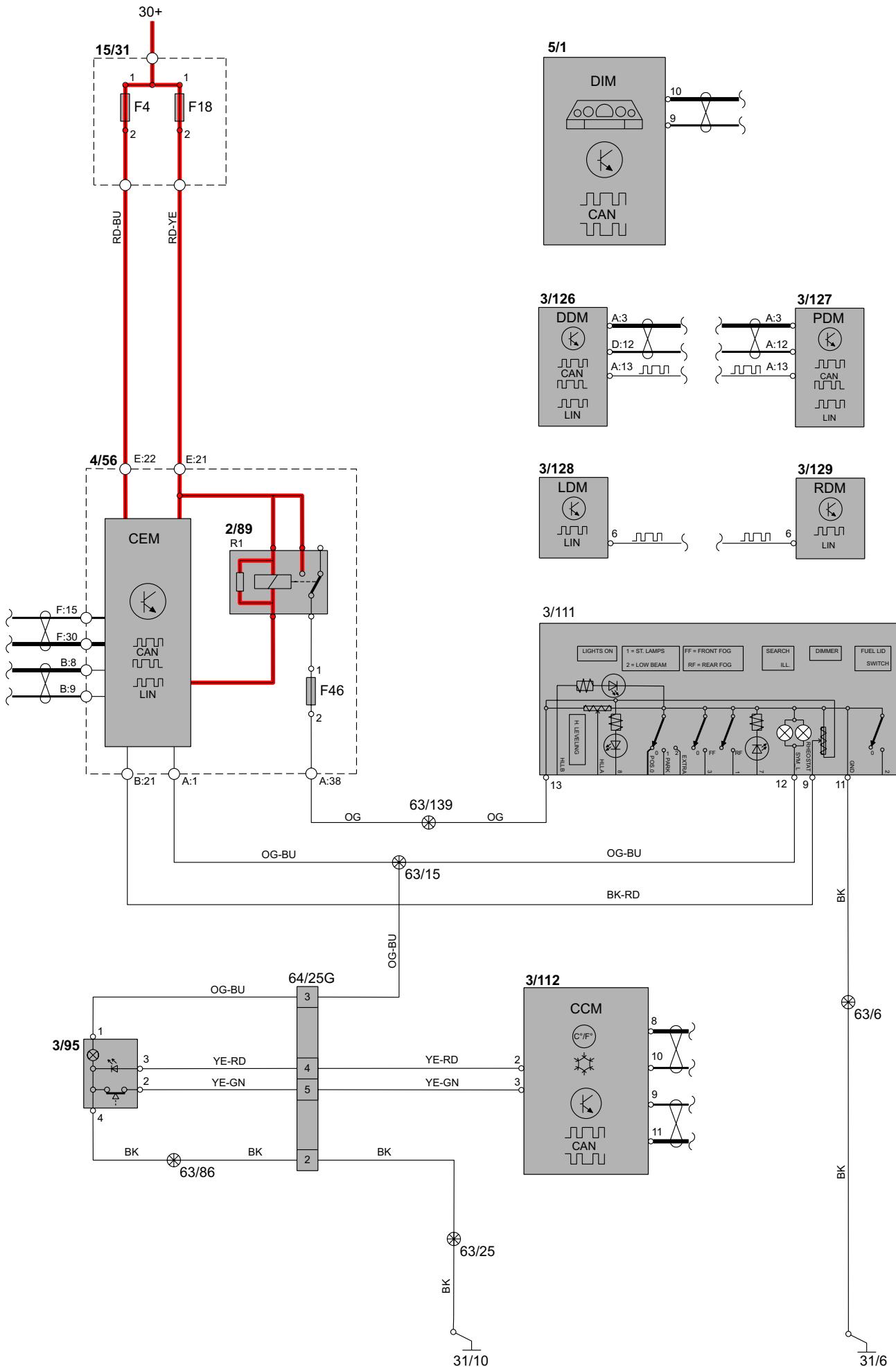
Group 35 Lighting

Interior lighting 2:2



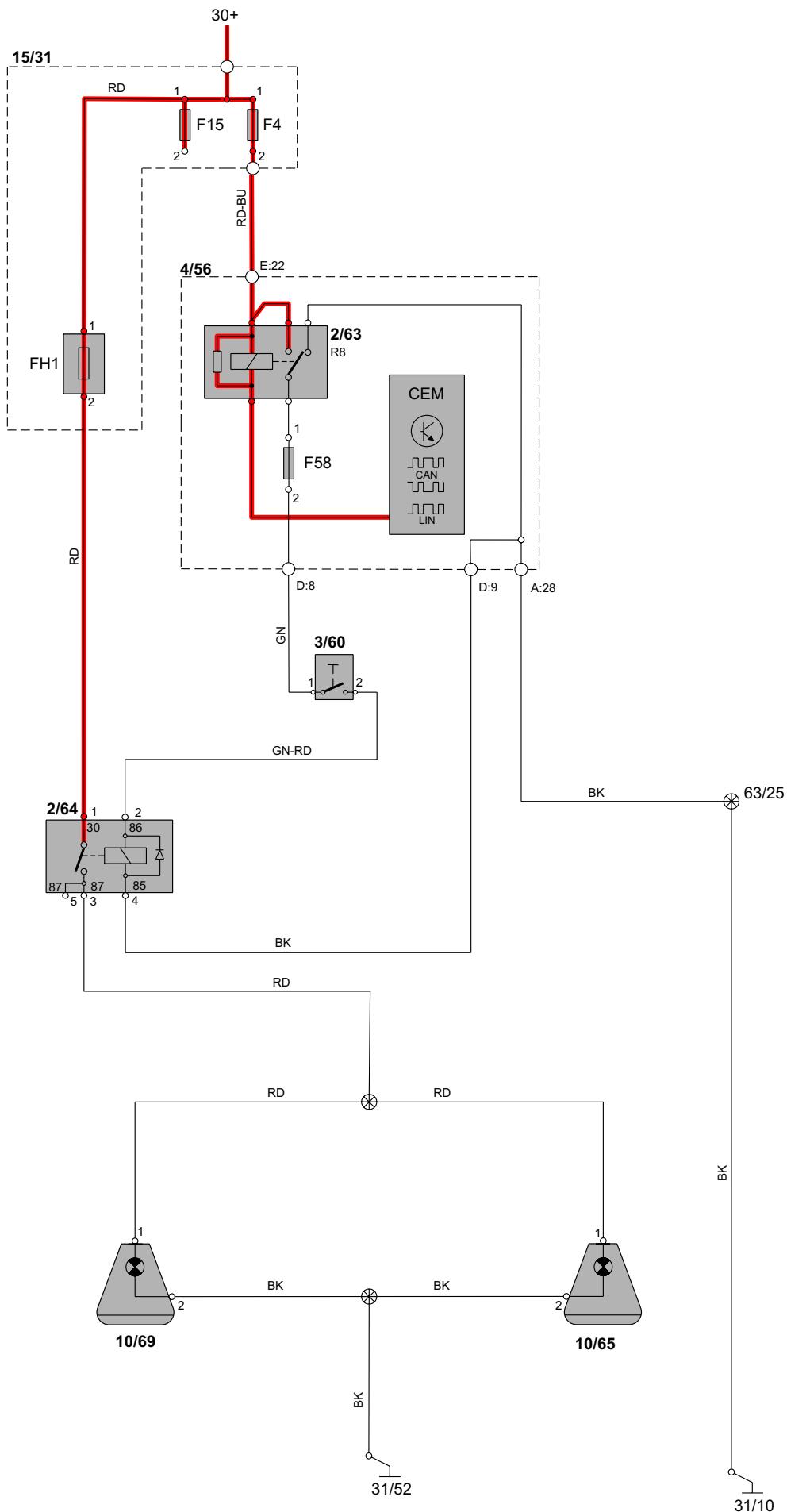
Group 35 Lighting

Instrument and control illumination



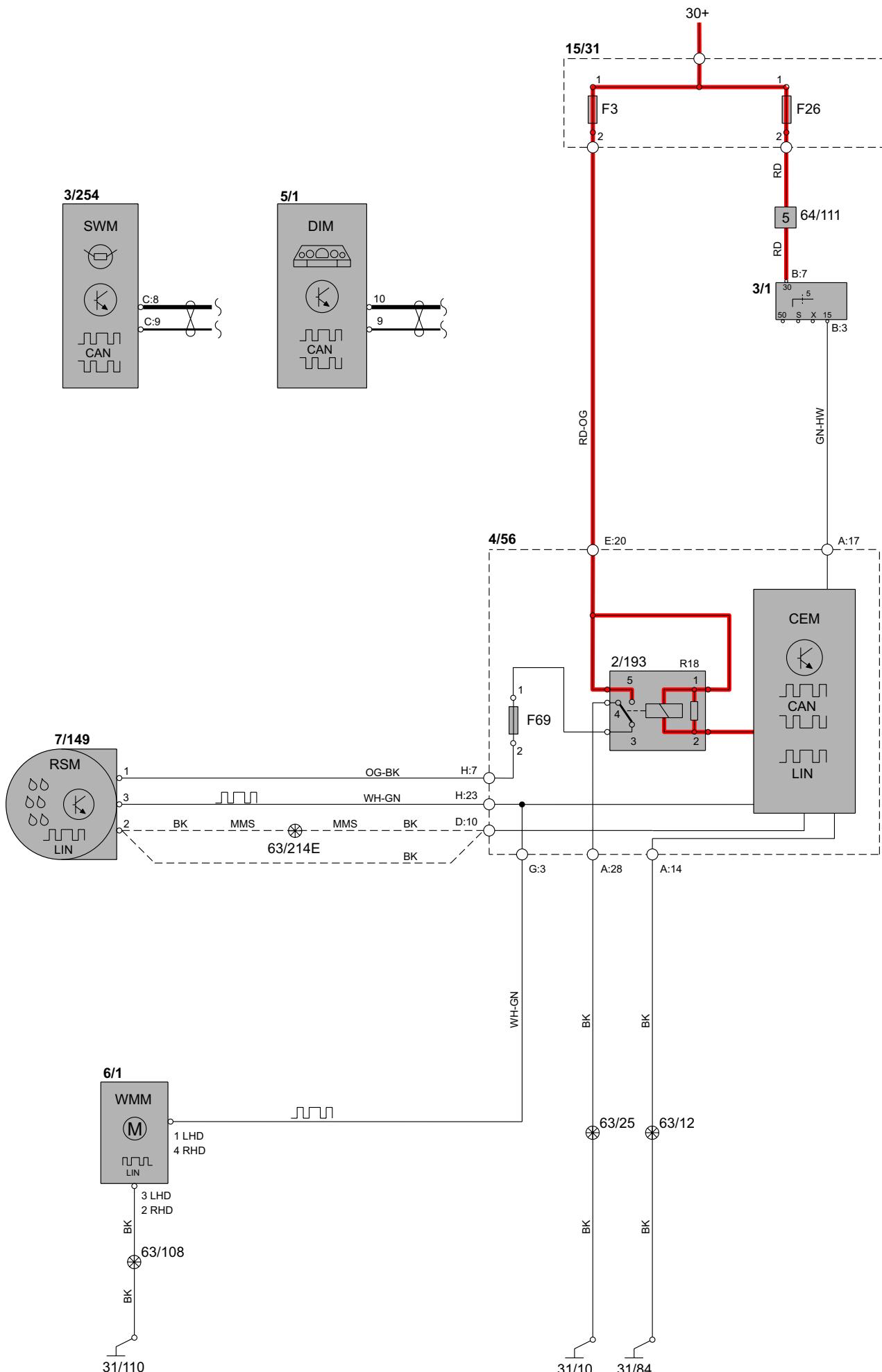
Group 35 Lighting, Accessories

Auxiliary light



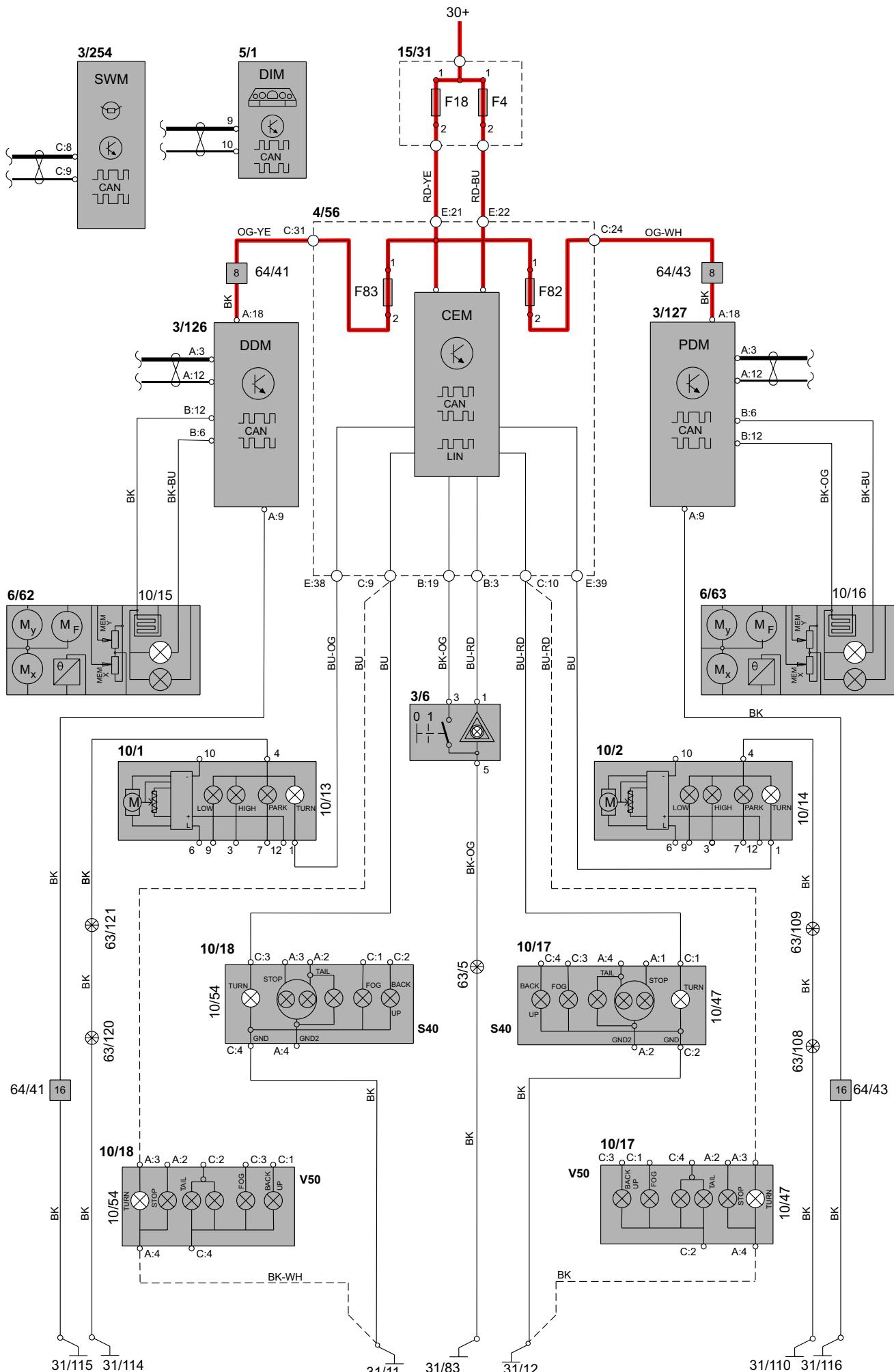
Group 36 Additional electrical equipment

Rain Sensor



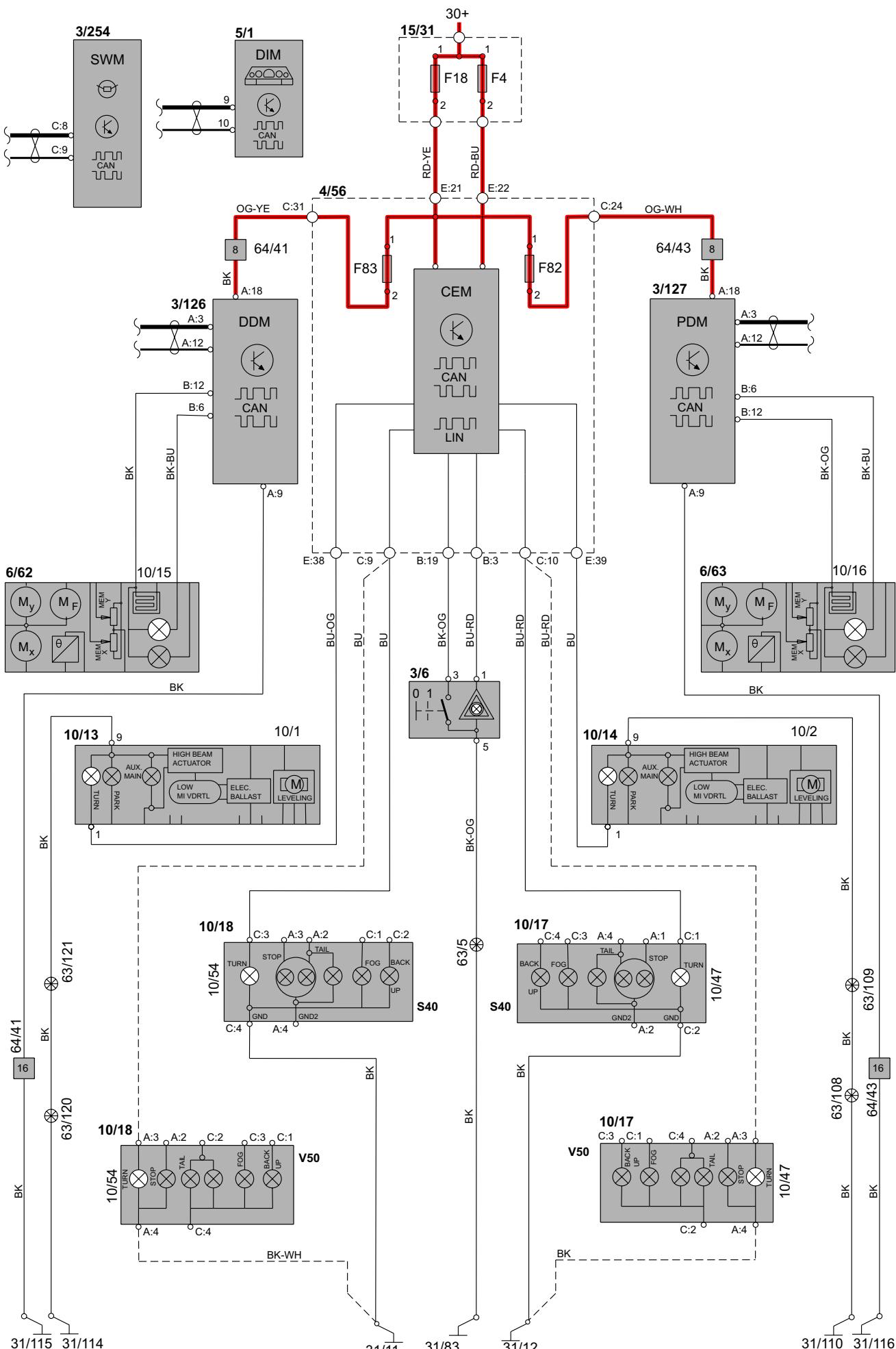
Group 36 Additional electrical equipment

Direction indicators and flashing hazard lights



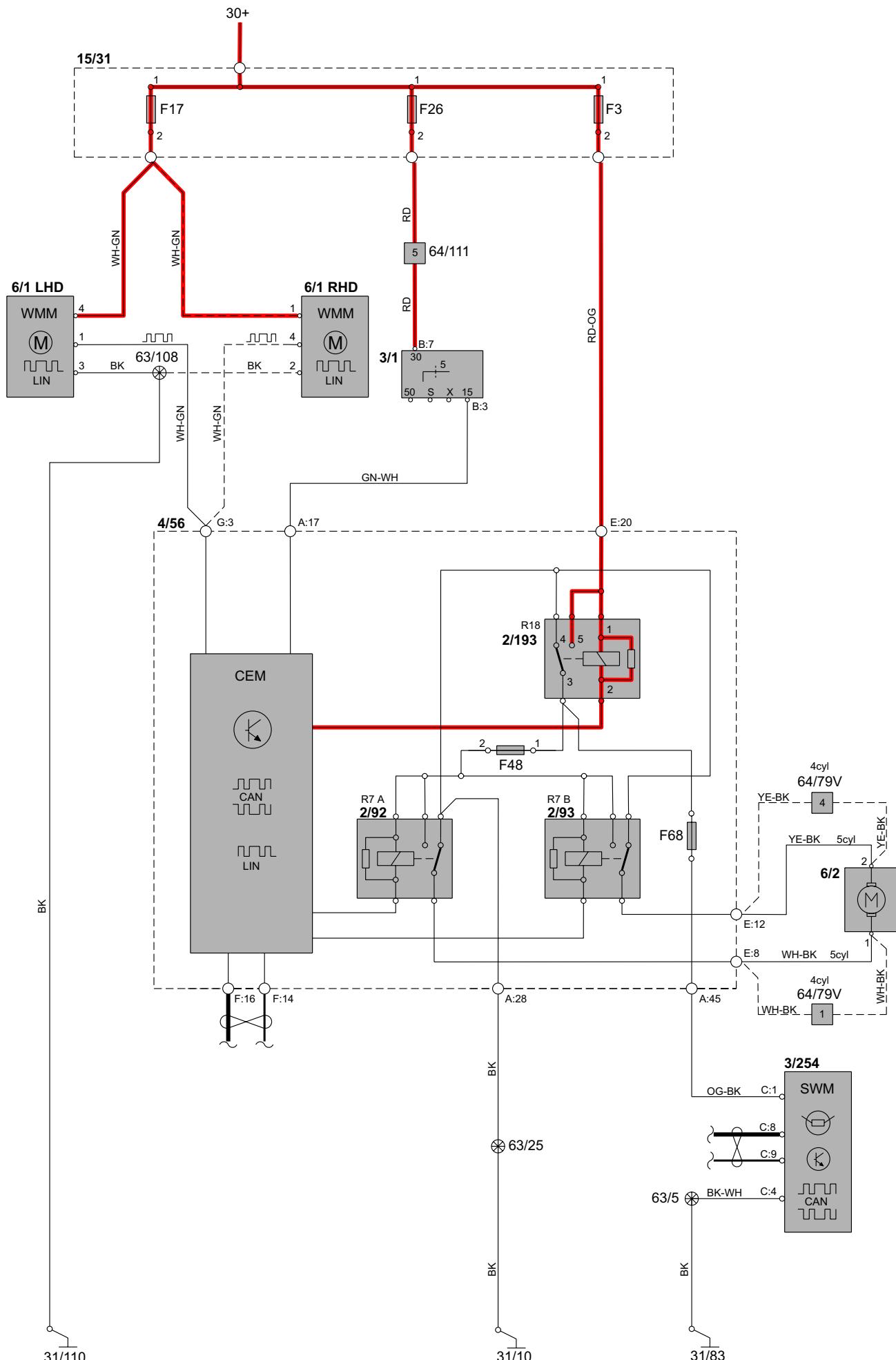
Group 36 Additional electrical equipment

Direction indicators and flashing hazard lights (Bi-Xenon)



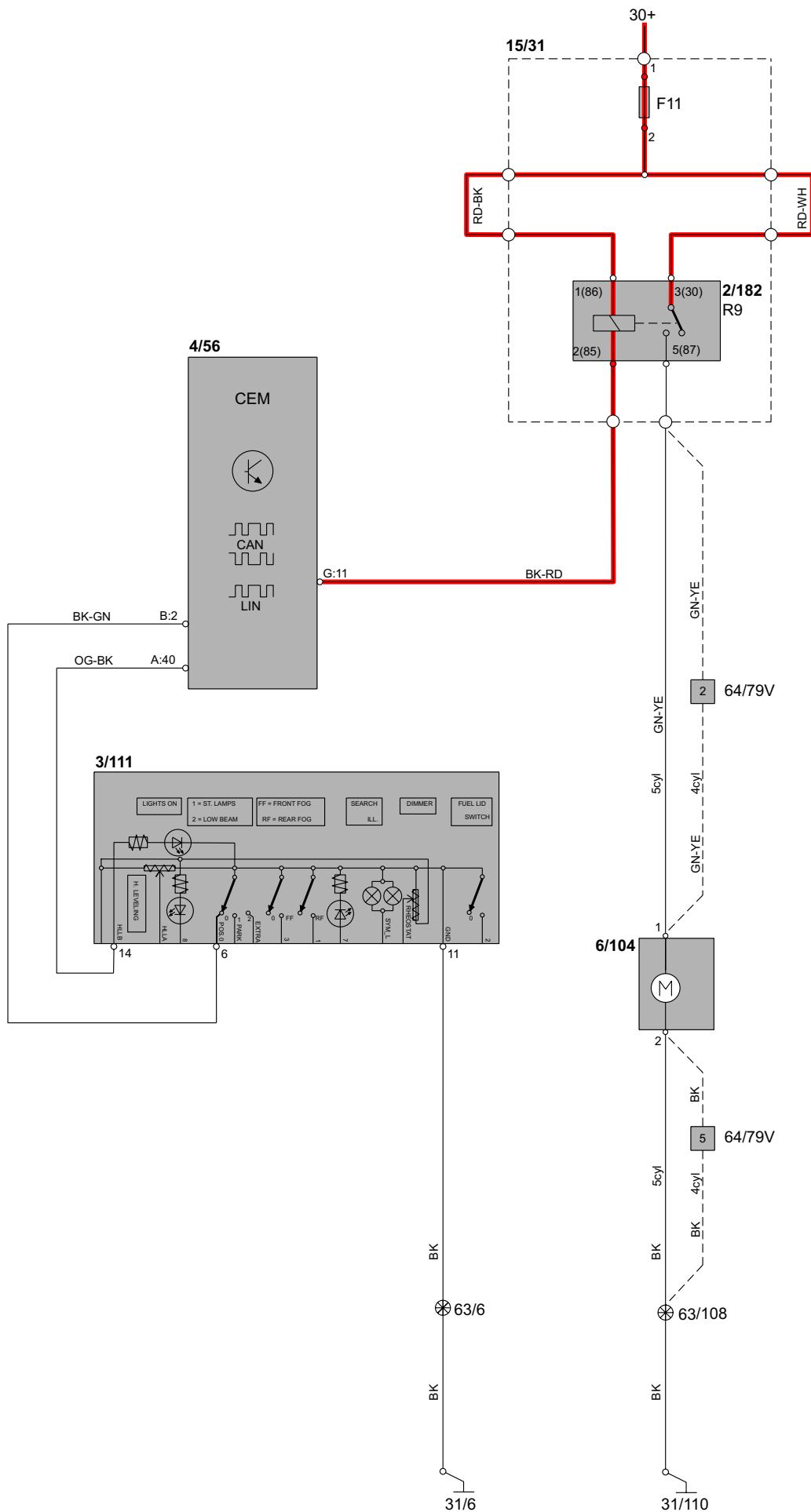
Group 36 Additional electrical equipment

Windshield wiper/washer



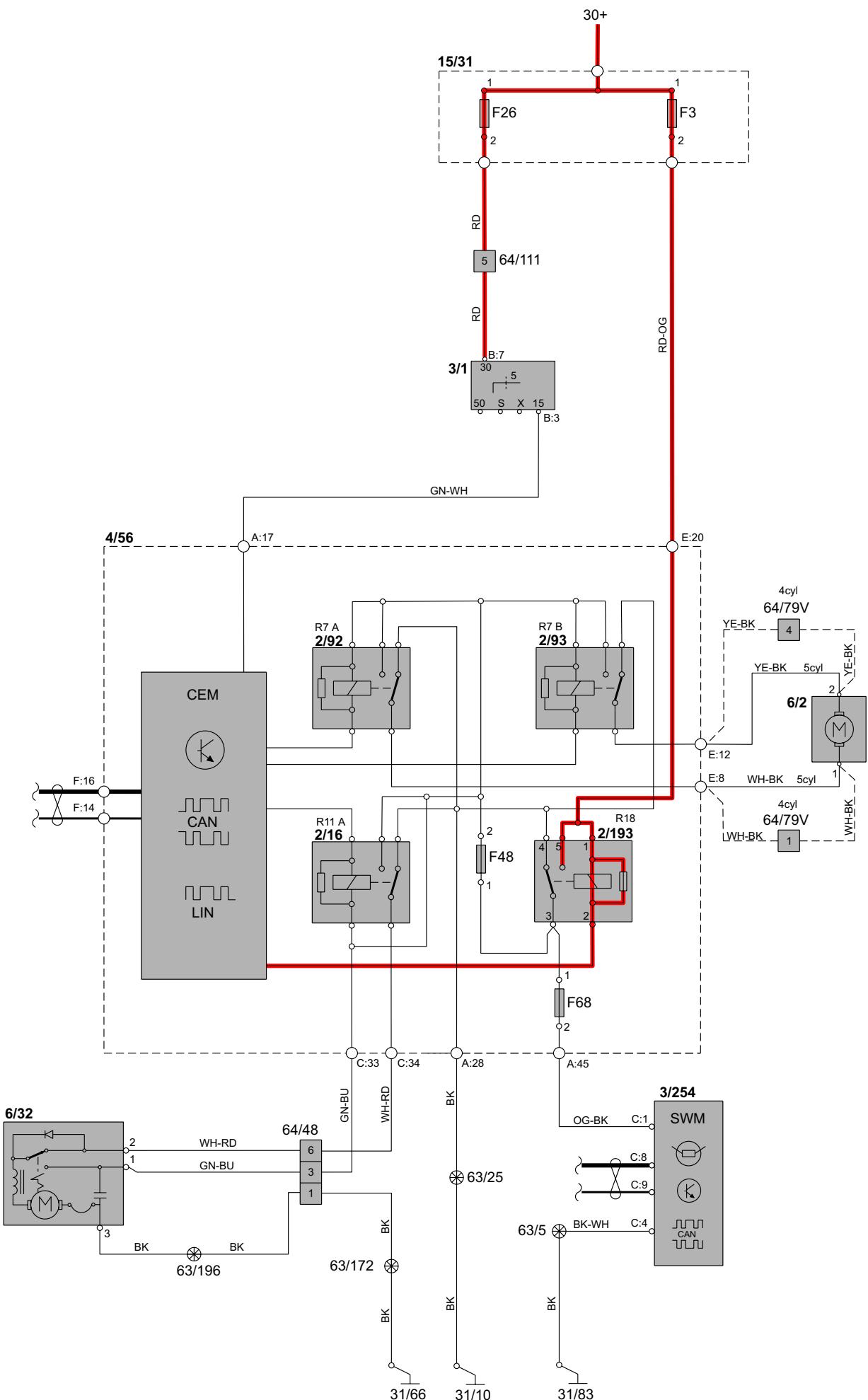
Group 36 Additional electrical equipment

Headlight washer



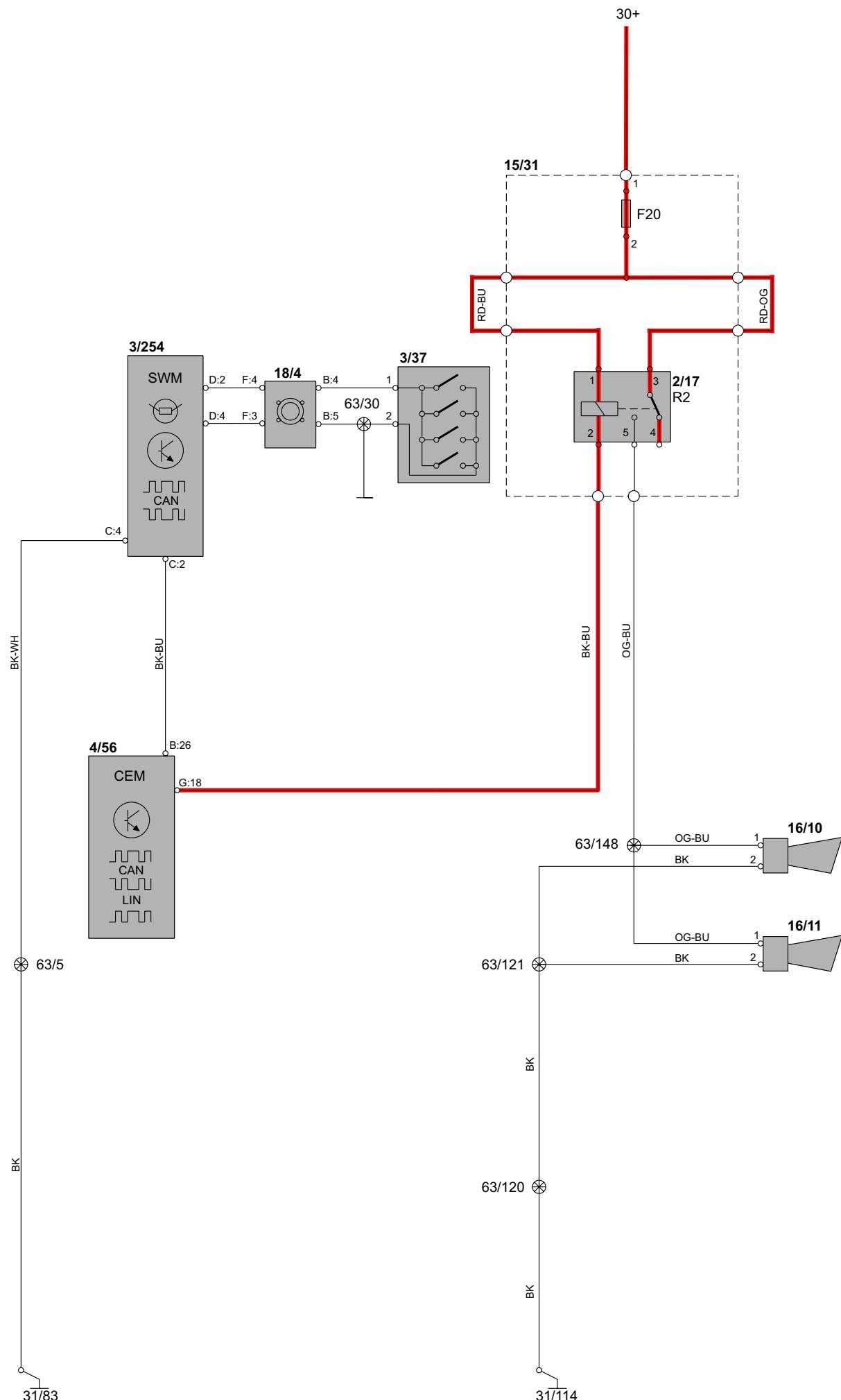
Group 36 Additional electrical equipment

Wiper/washer, rear window



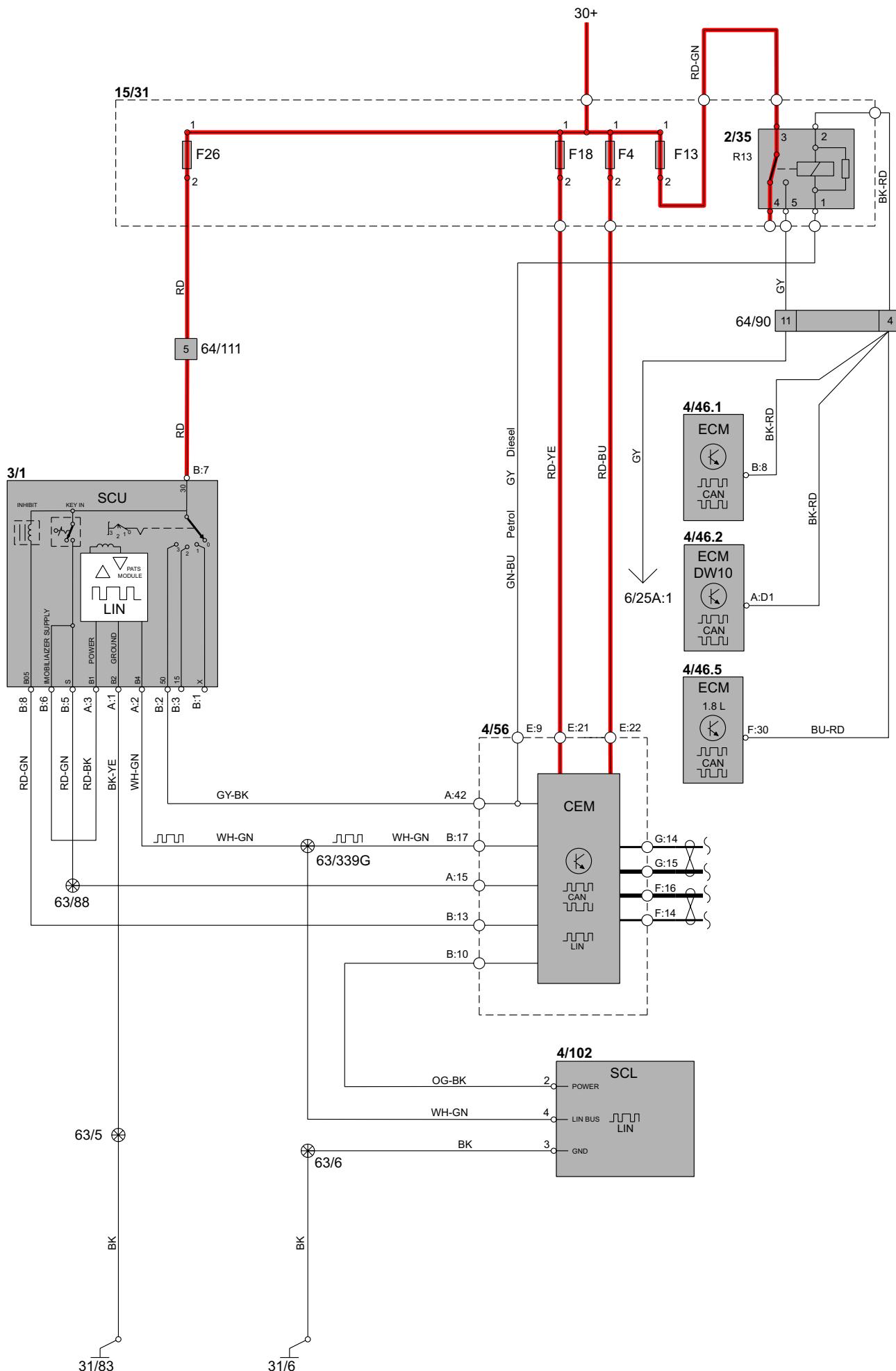
Group 36 Additional electrical equipment

Horn



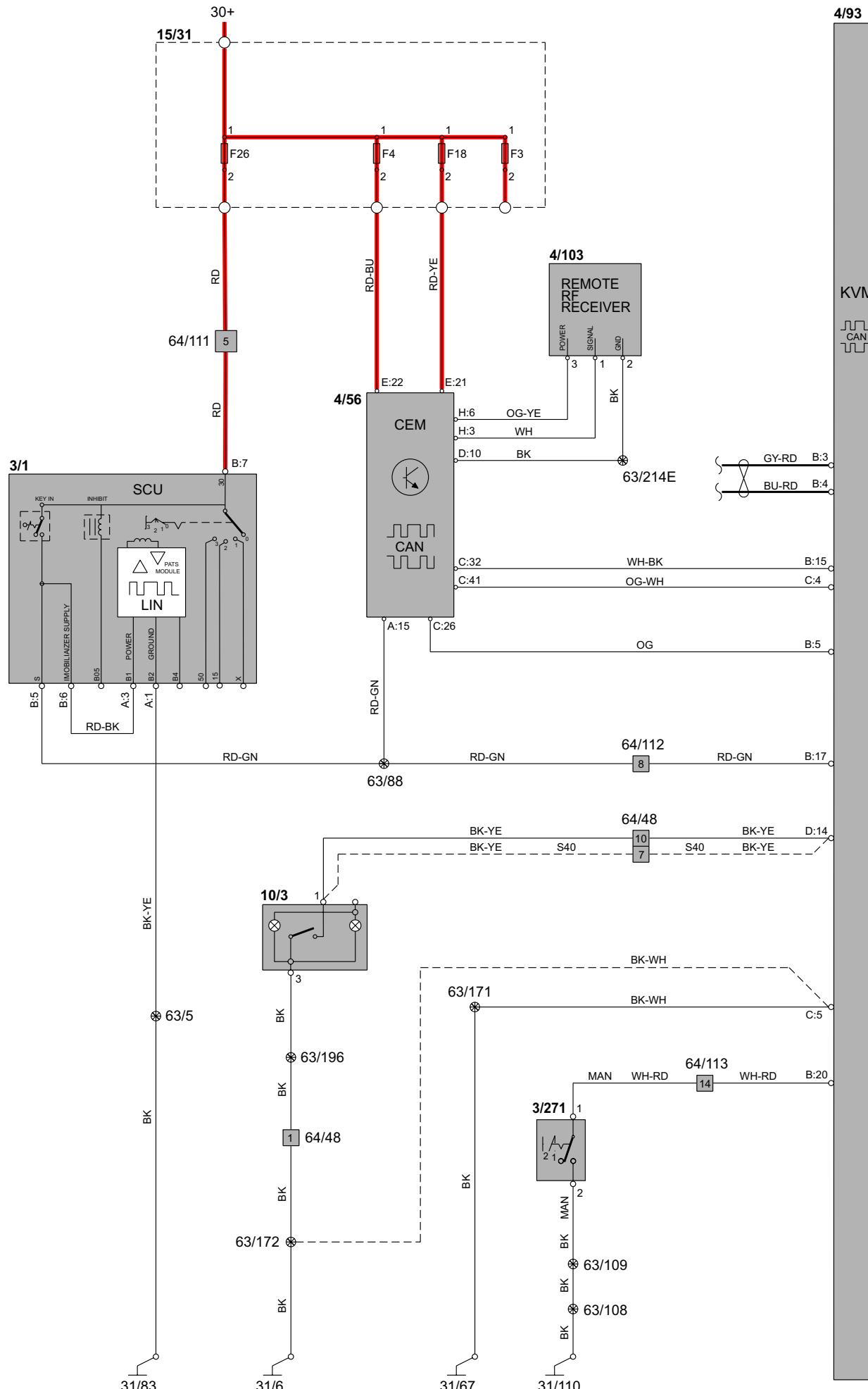
Group 36 Additional electrical equipment

Immobilizer/Control module steering column lock (SCL)



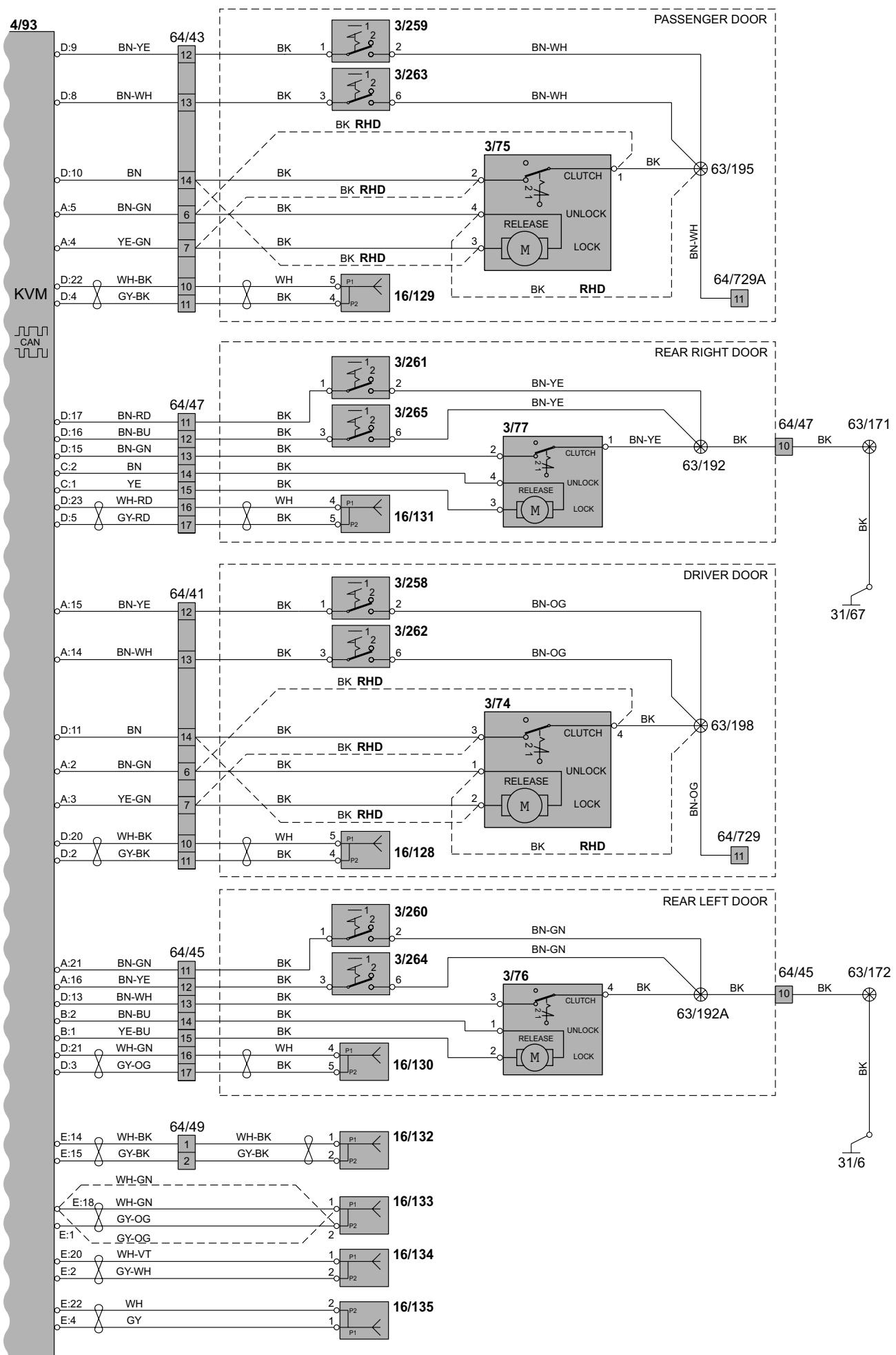
Group 36 Additional electrical equipment

Keyless Vehicle 1:2



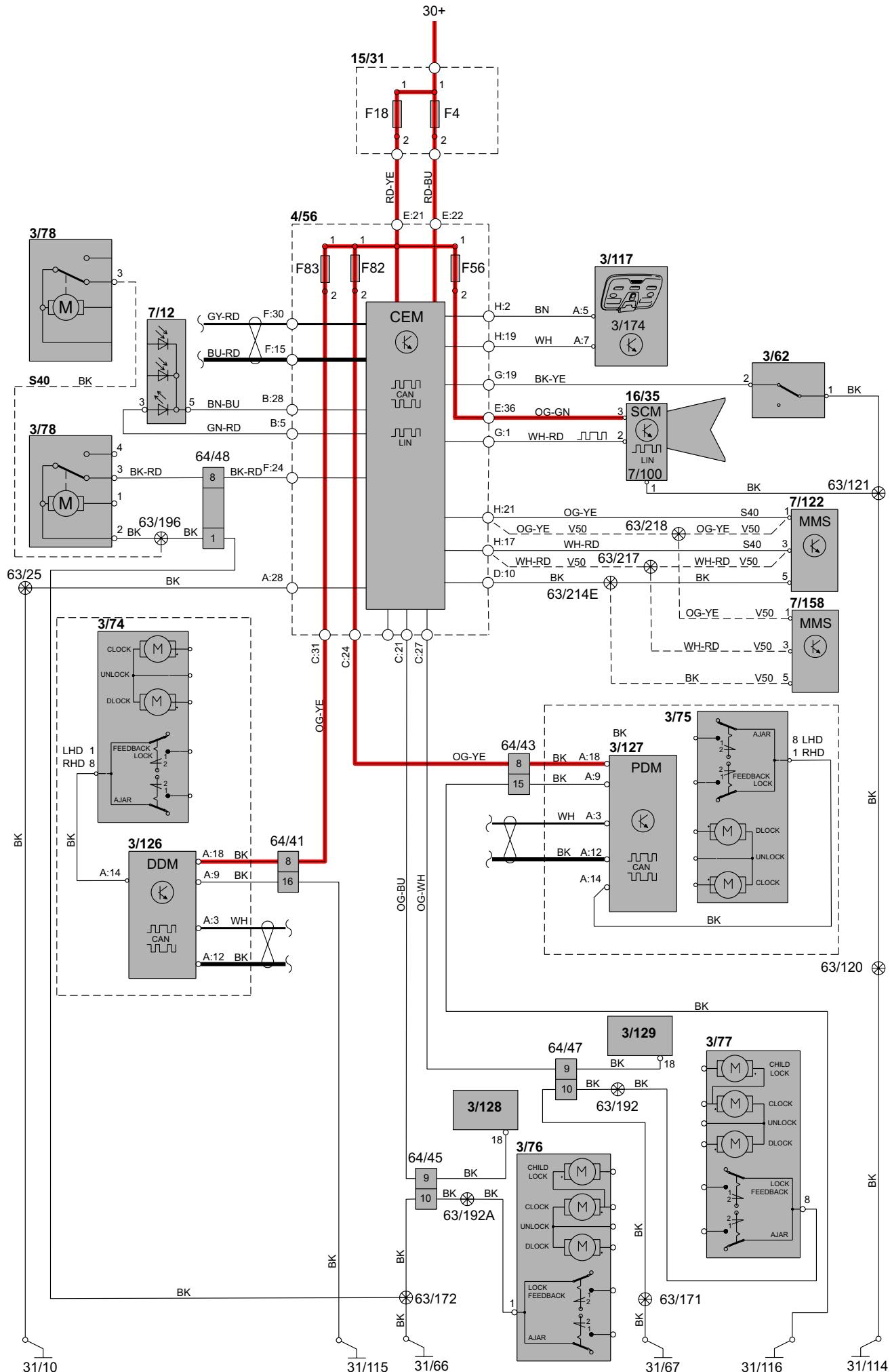
Group 36 Additional electrical equipment

Keyless Vehicle 2:2



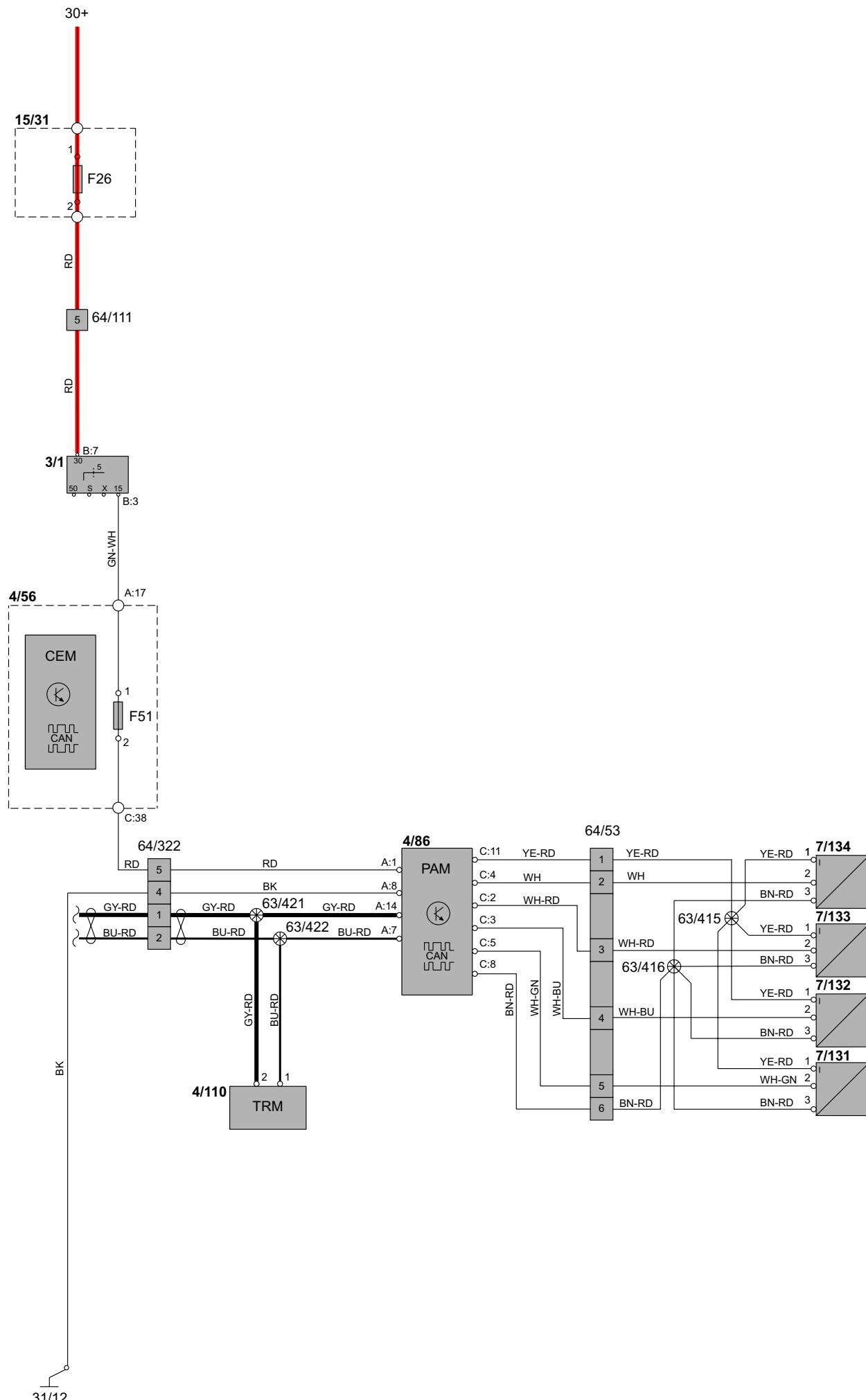
Group 36 Additional electrical equipment

Anti-theft alarm



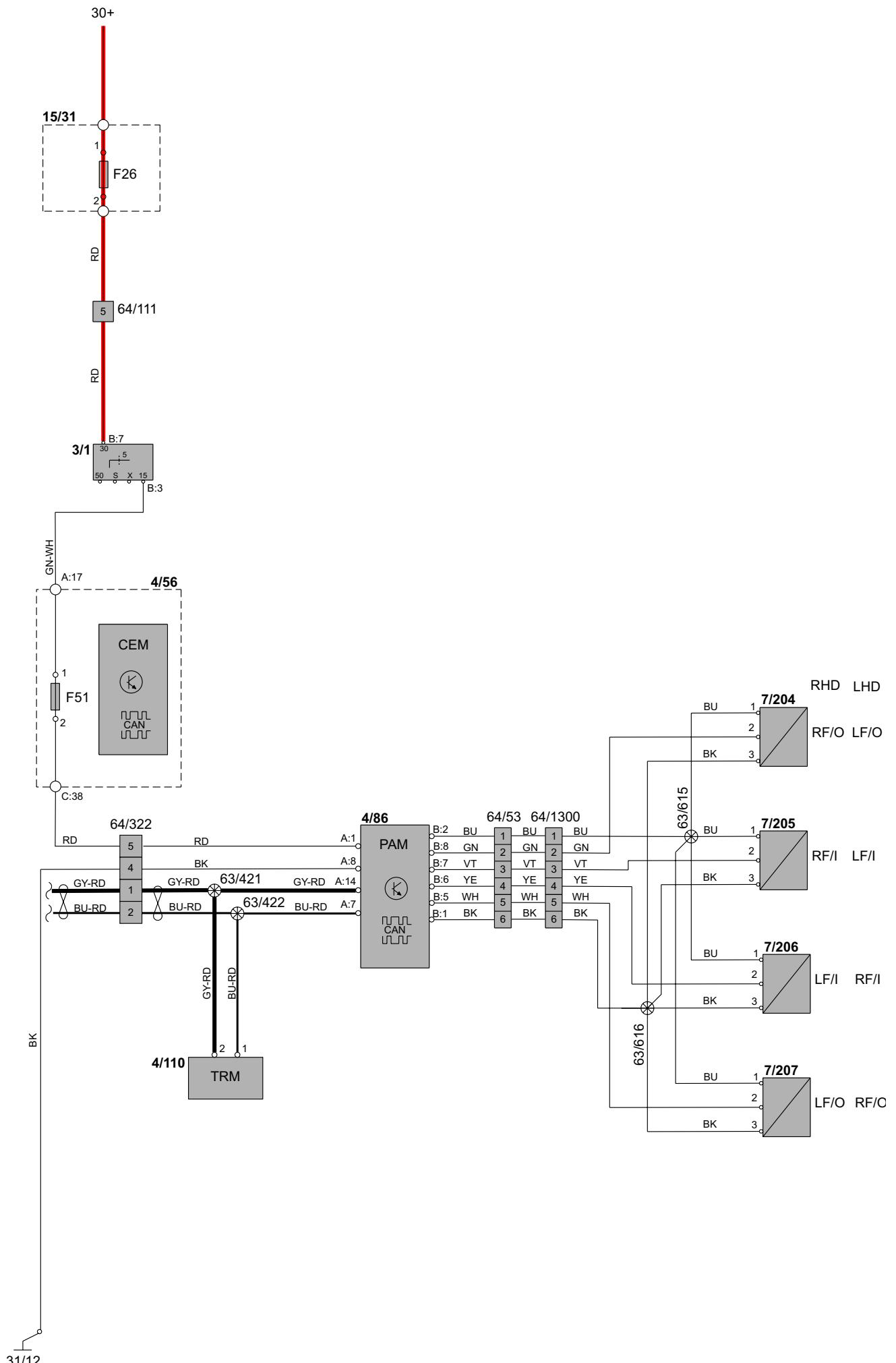
Group 36 Additional electrical equipment

Parking assistance, rear



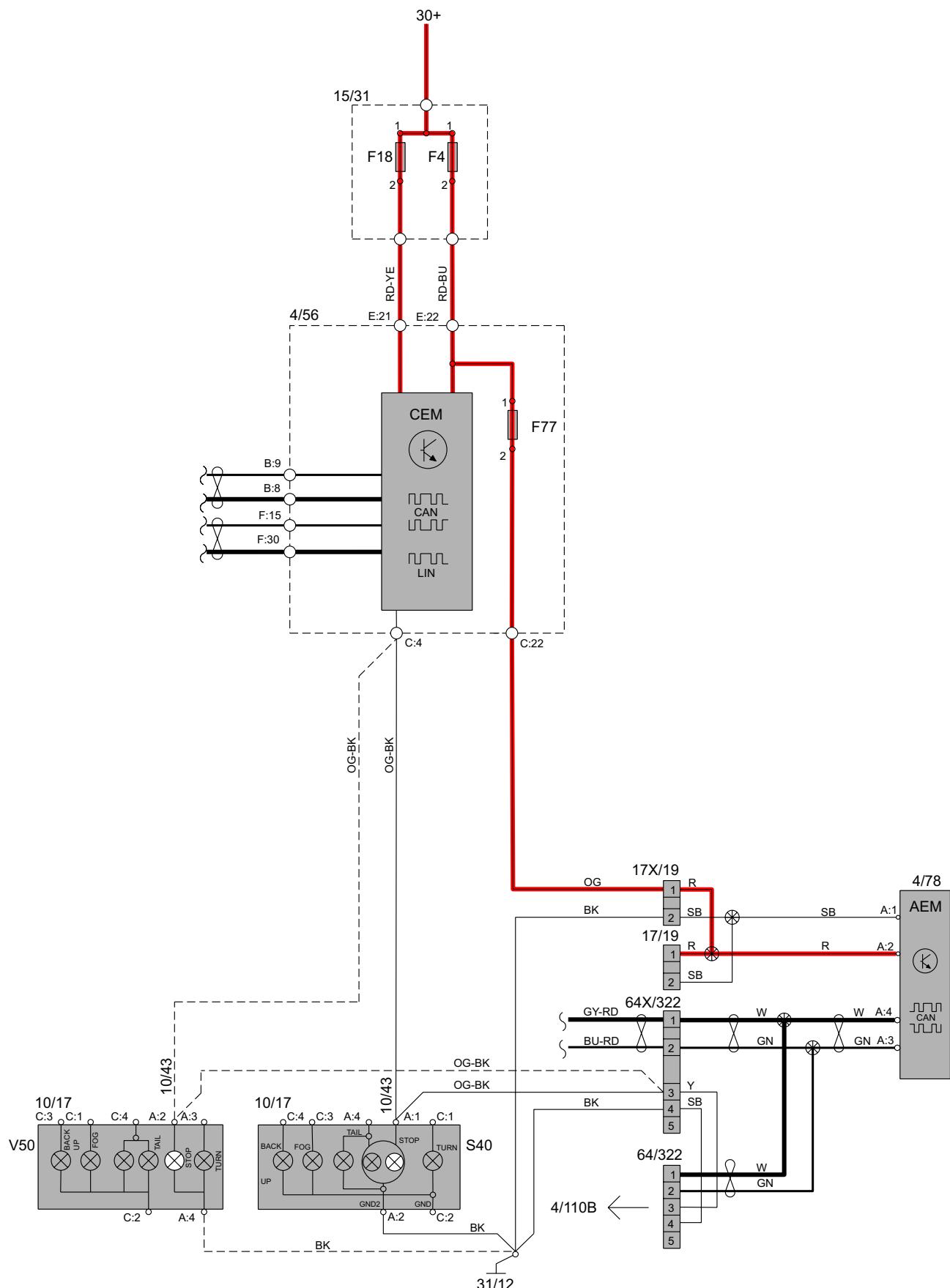
Group 36 Additional electrical equipment

Parking assistance, front



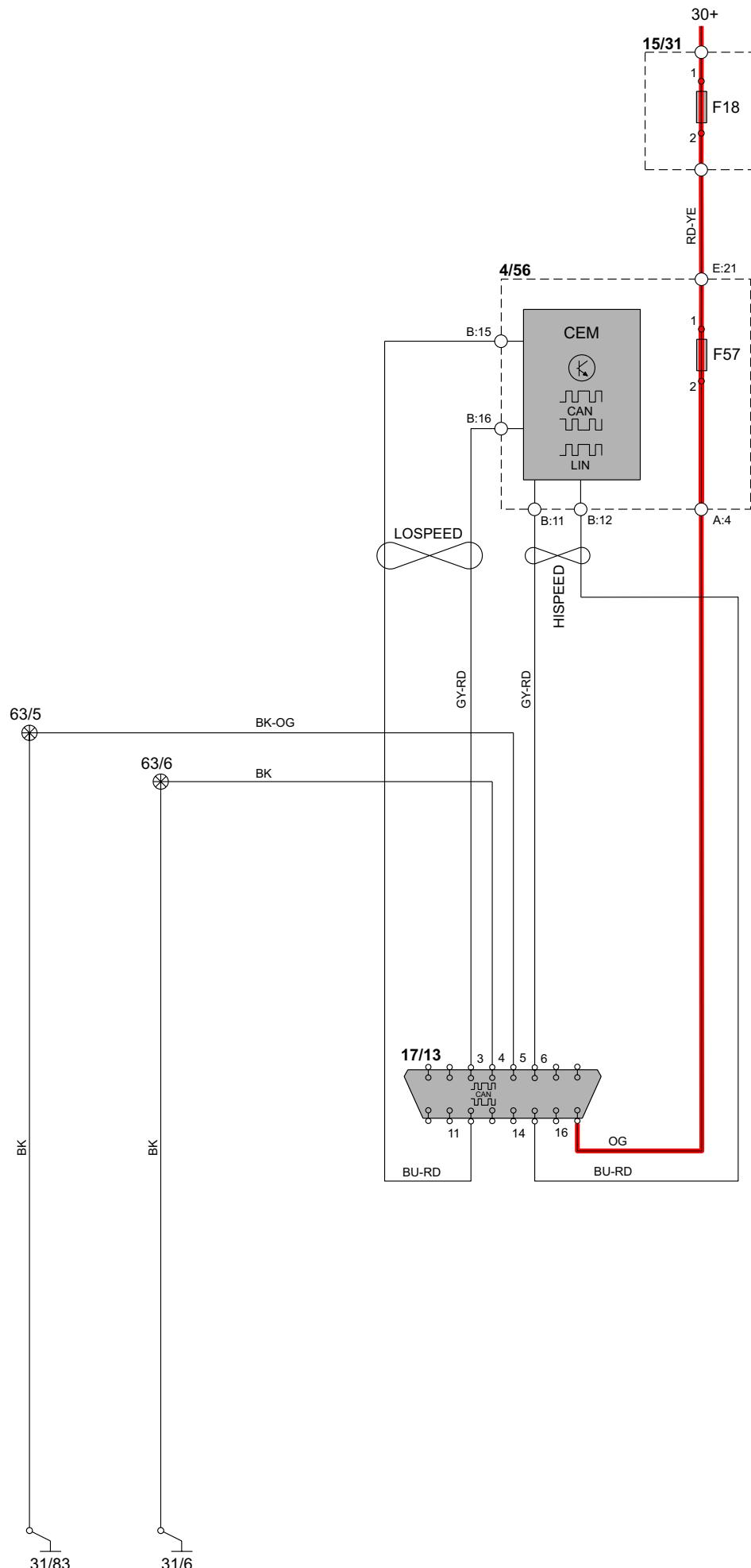
Group 36 Additional electrical equipment, Accessories

Accessory Electronic Module (AEM)



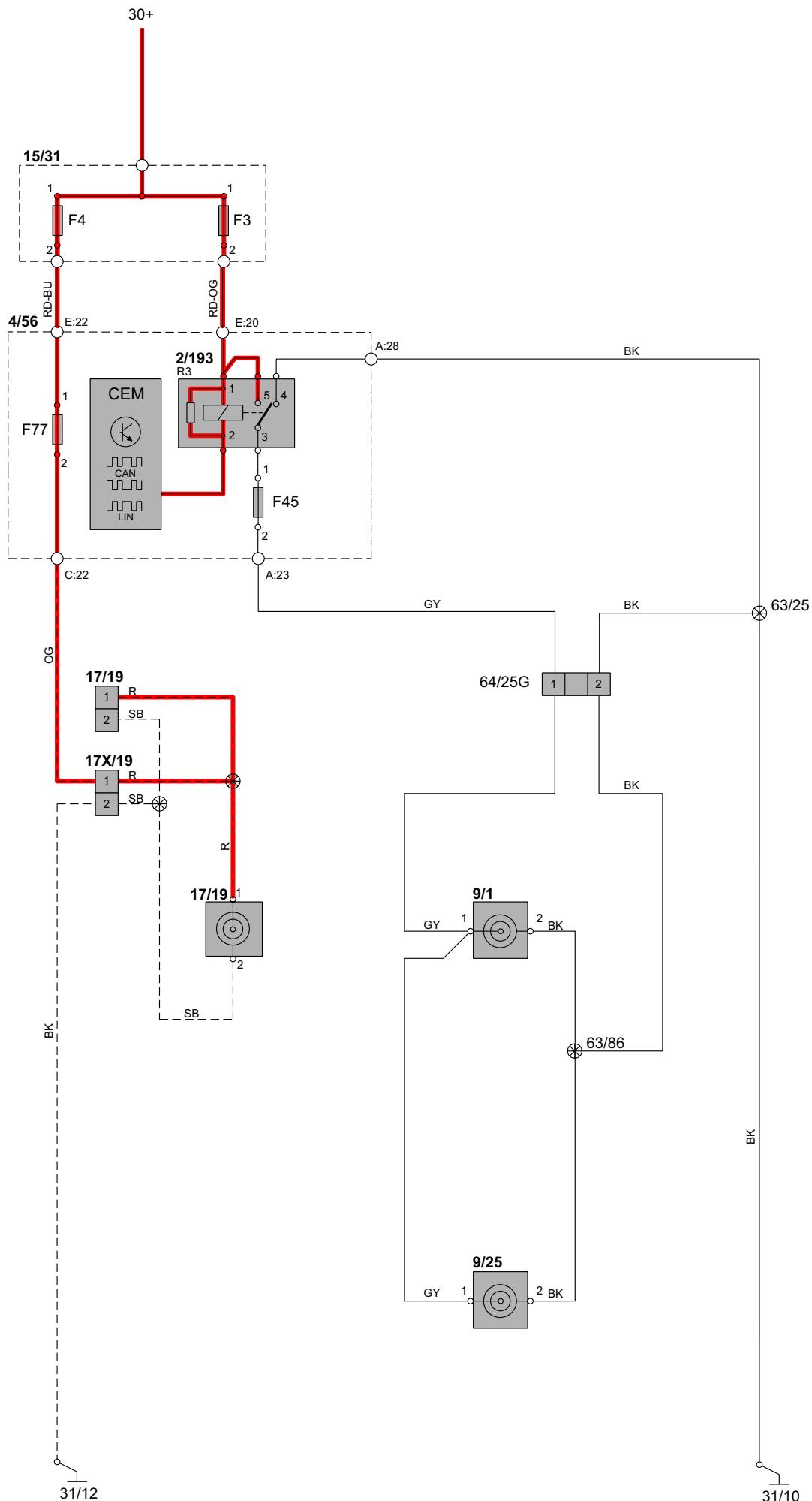
Group 37 Wiring and fuses

Diagnostics system



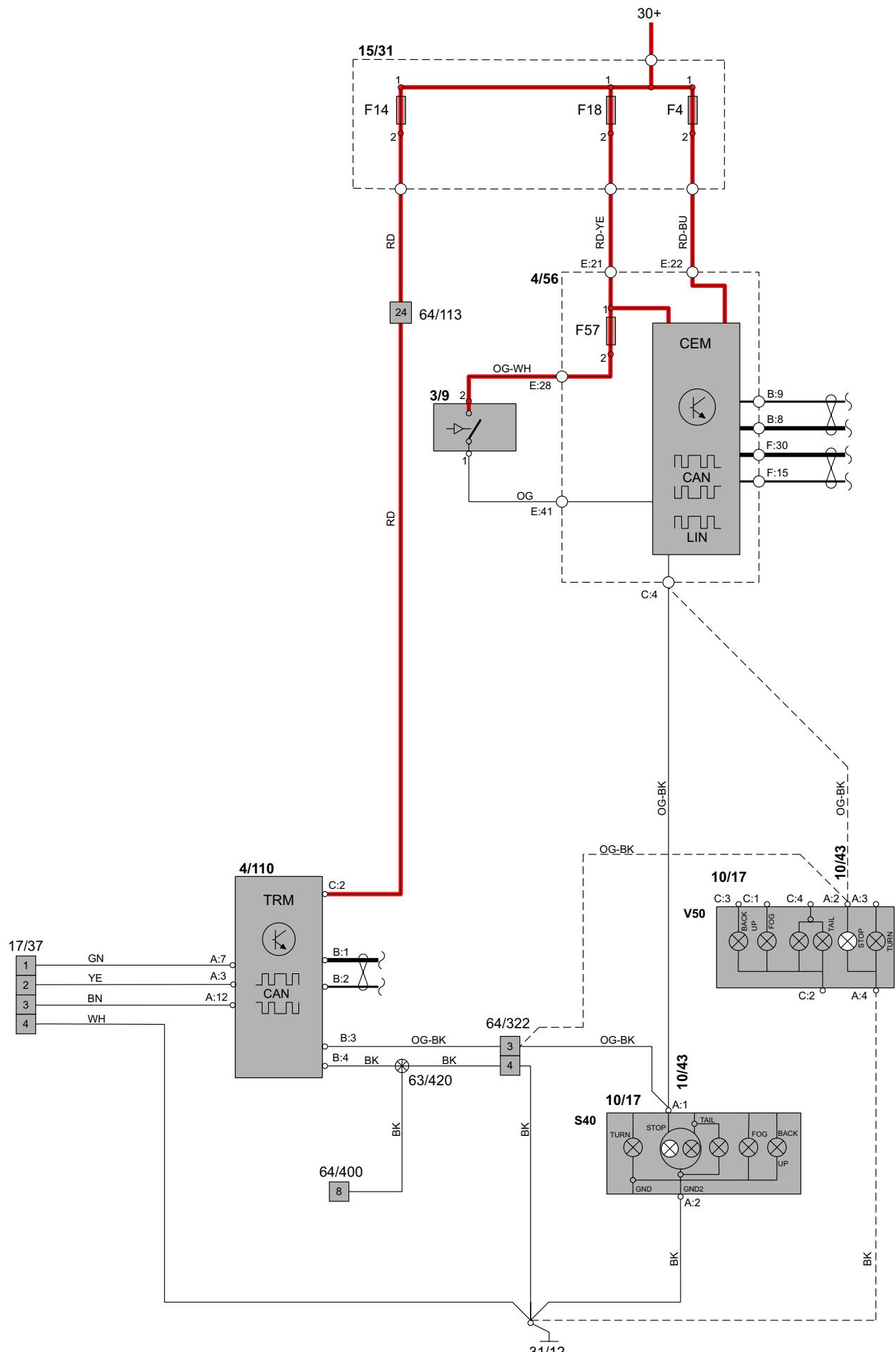
Group 37 Wiring and fuses

12V outlet



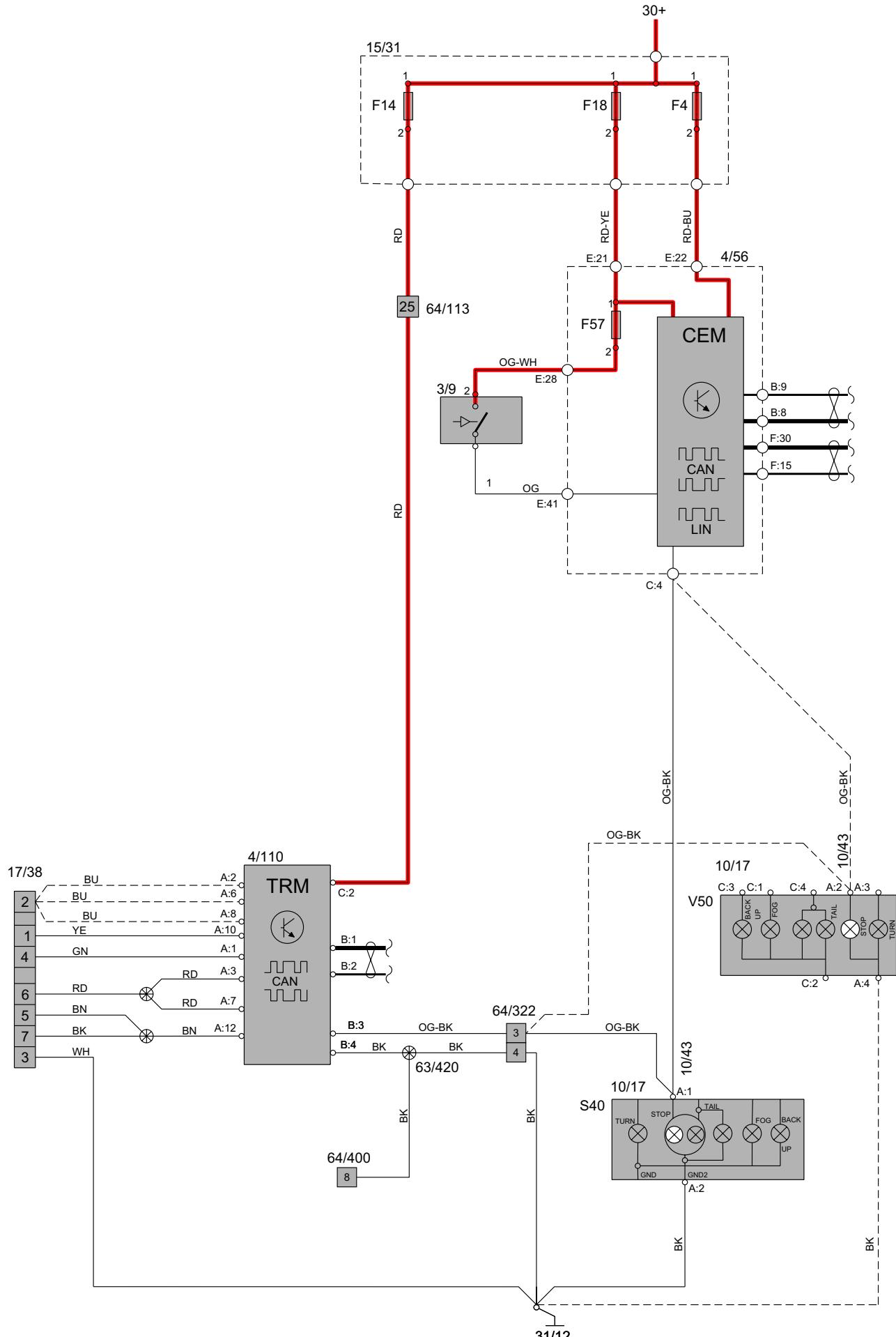
Group 37 Wiring and fuses, Accessories

Towbar cable harness, 4-pin



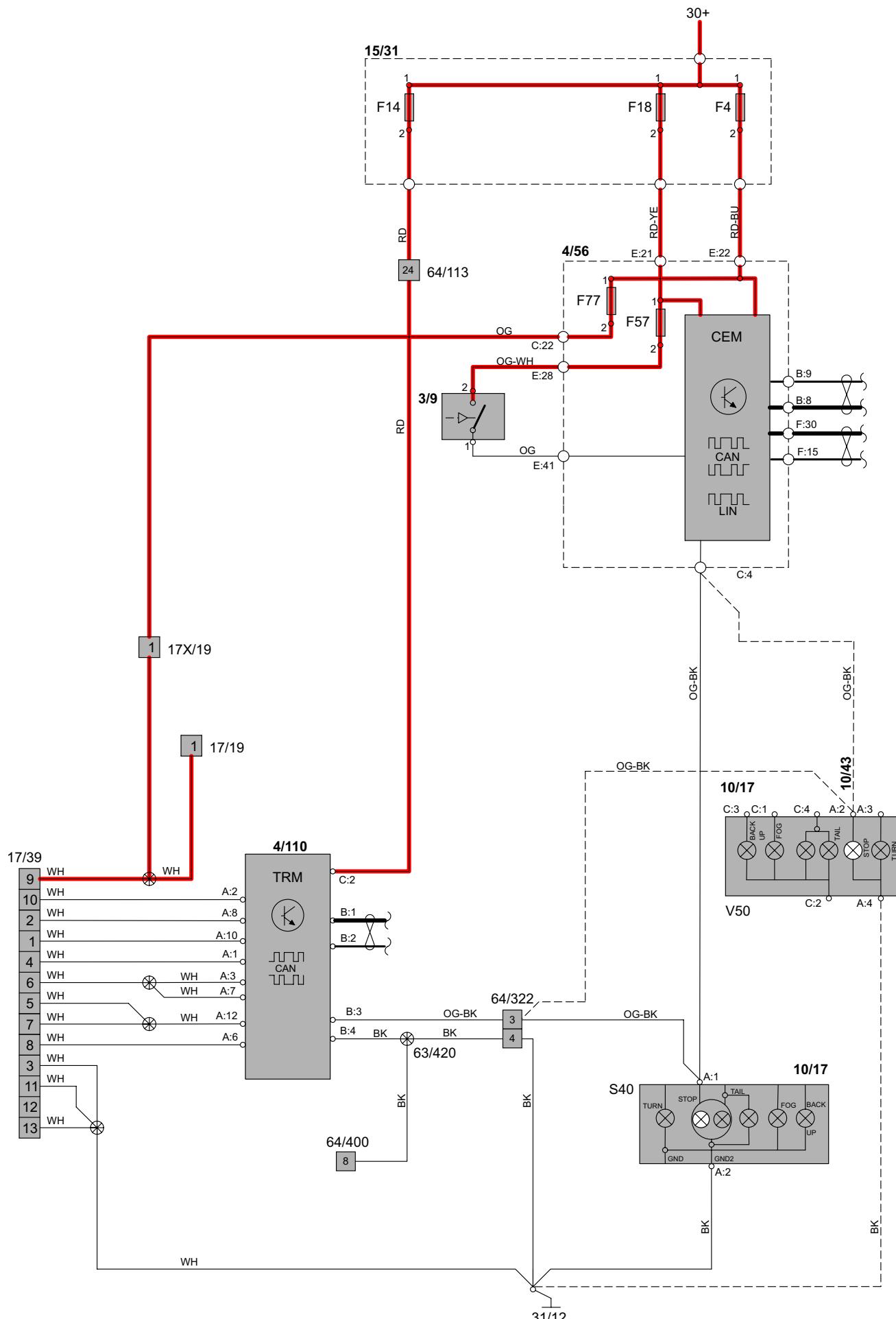
Group 37 Wiring and fuses, Accessories

Towbar cable harness, 7-pin



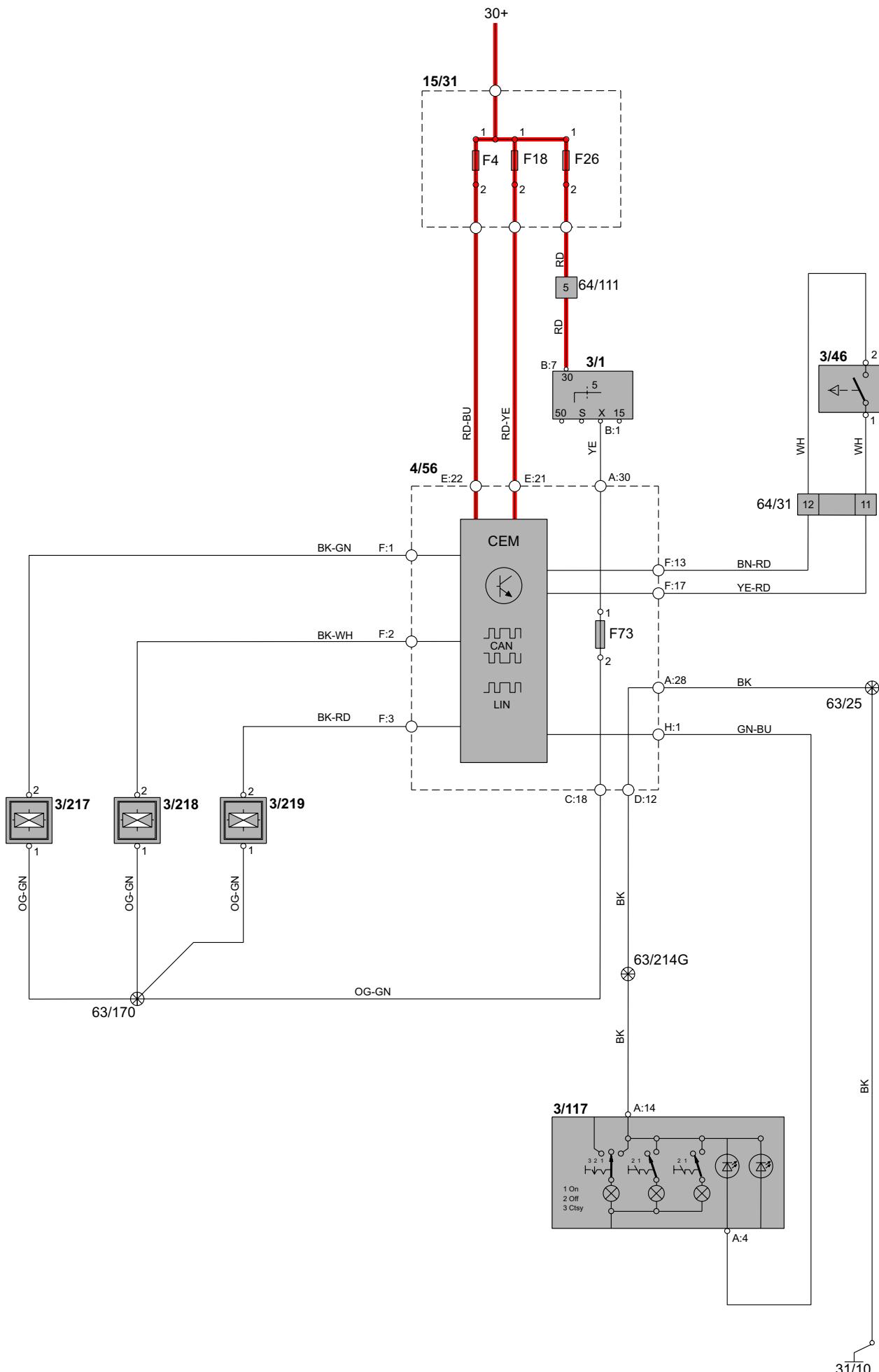
Group 37 Wiring and fuses, Accessories

Towbar cable harness, 13-pin



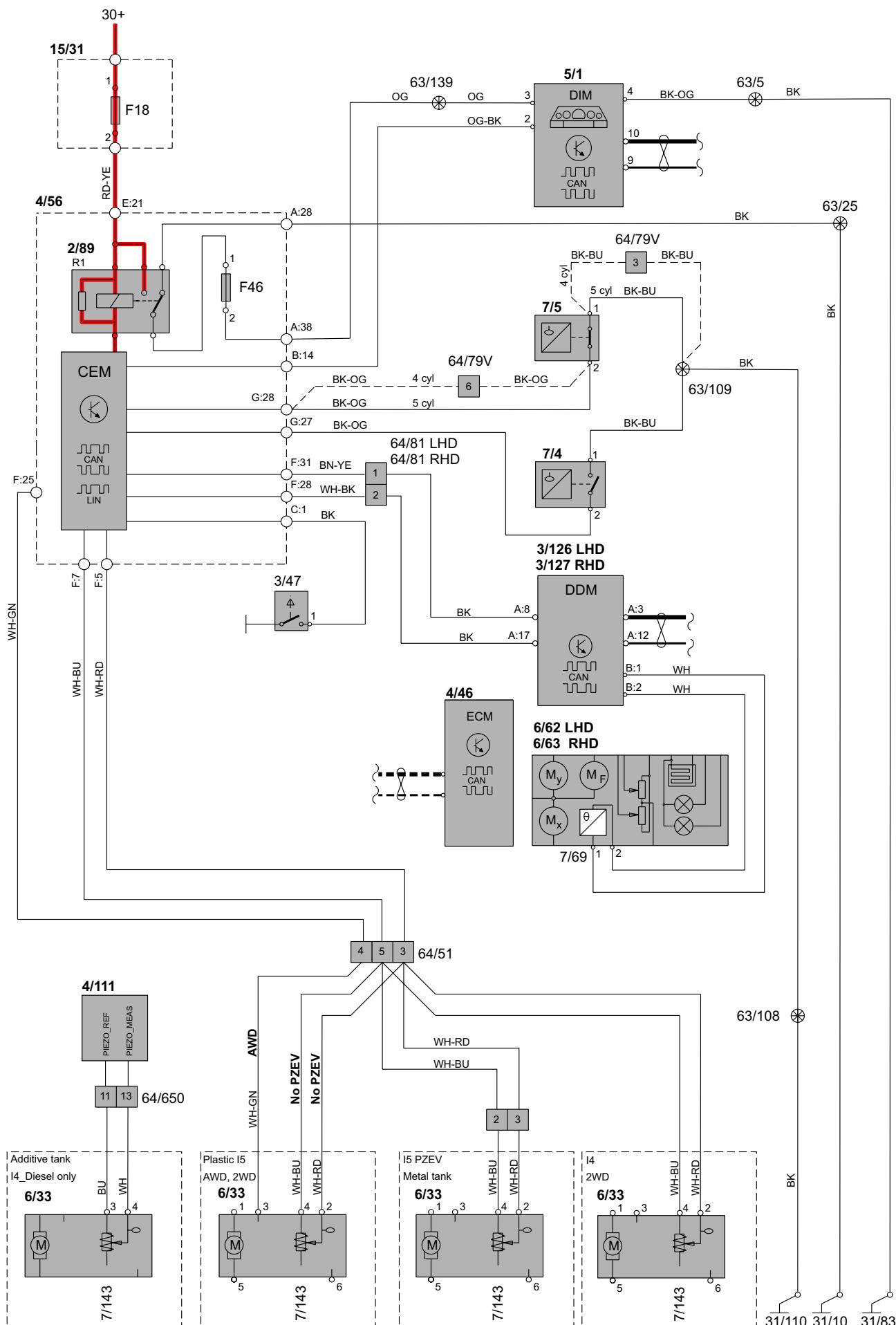
Group 38 Instruments

Seat belt reminder

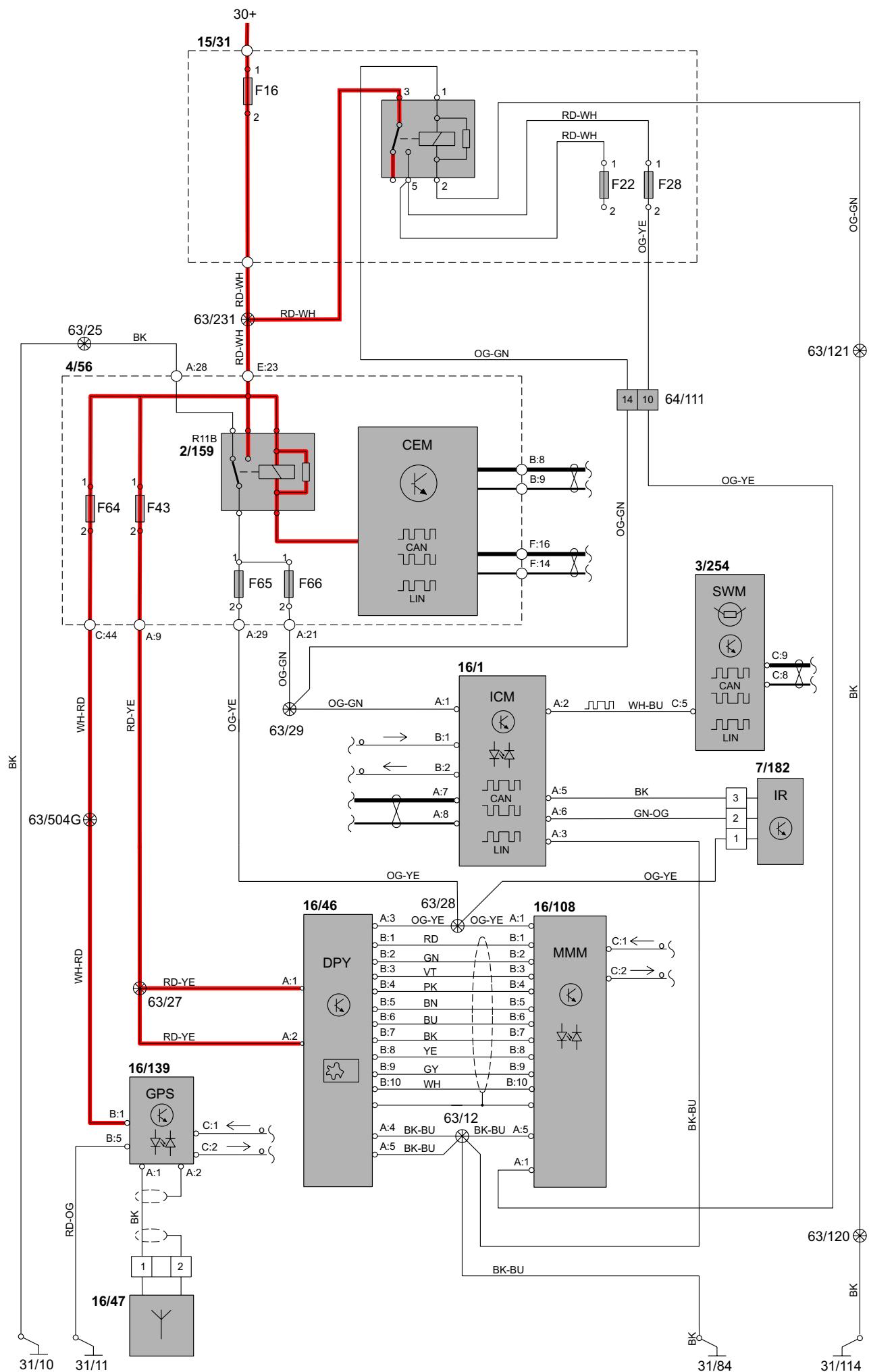


Group 38 Instruments

Driver information module

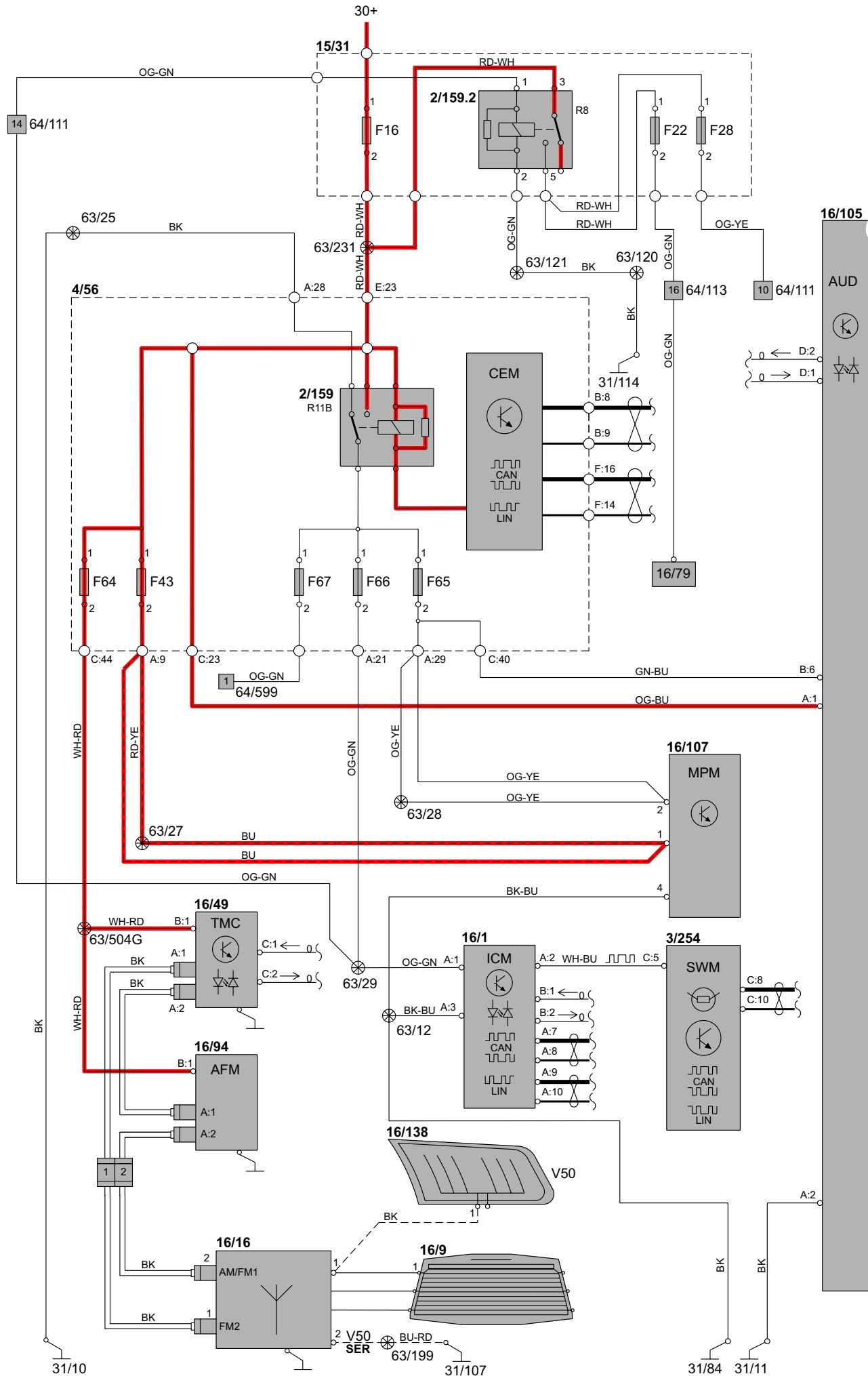


Group 39 Other Multimedia & Traffic information

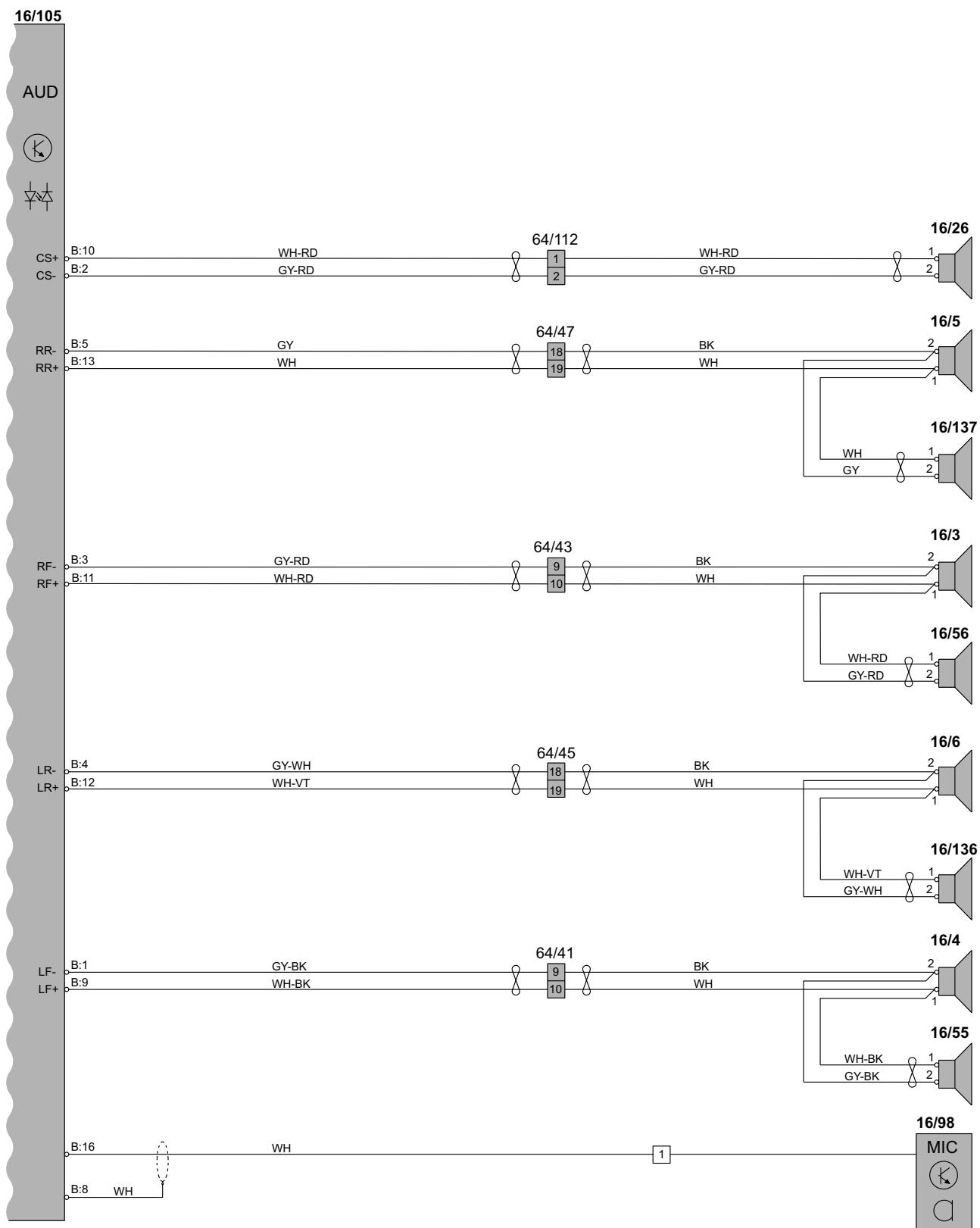


Group 39 Other

Audio 1:2

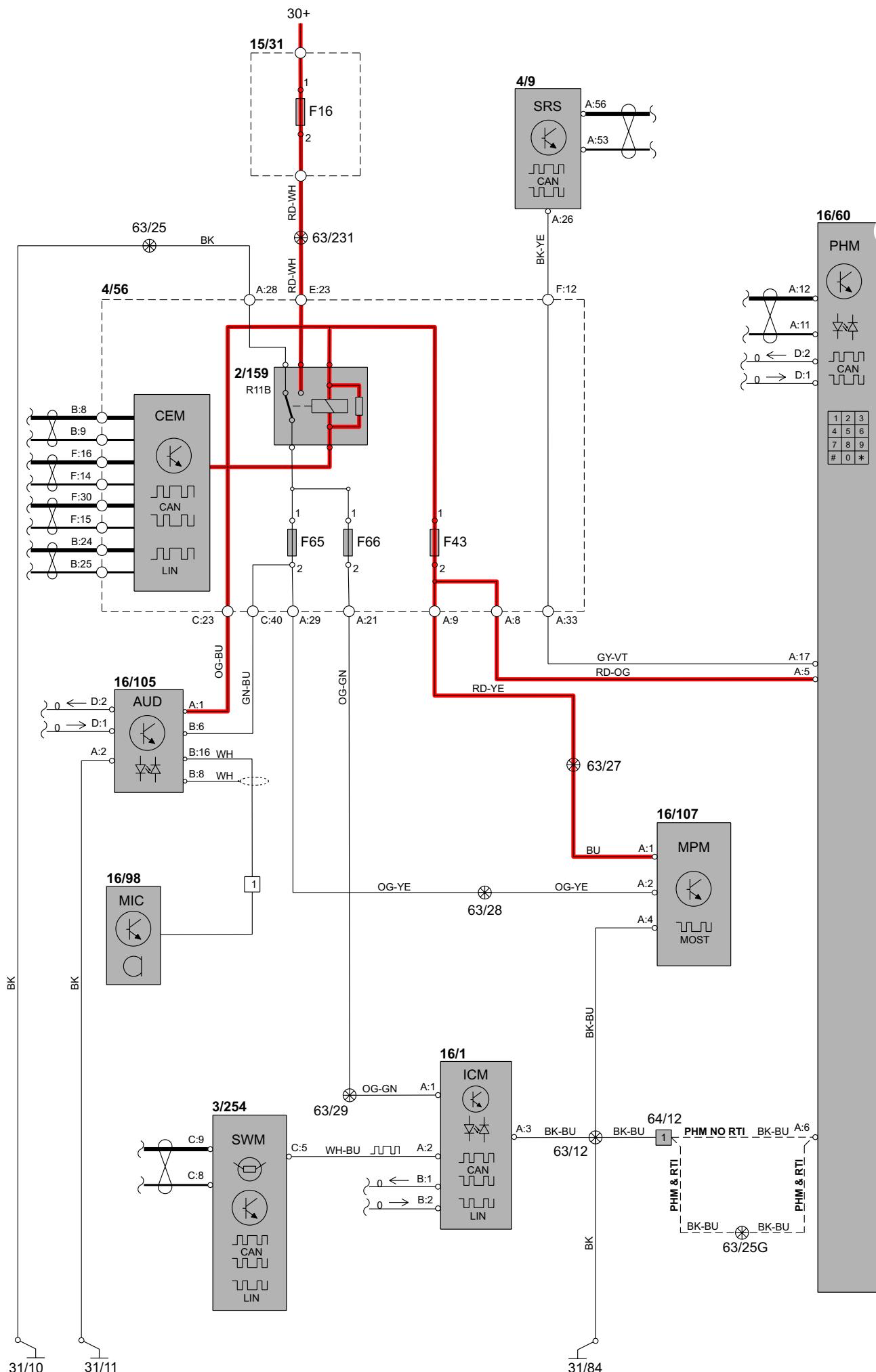


Group 39 Other Audio 2:2



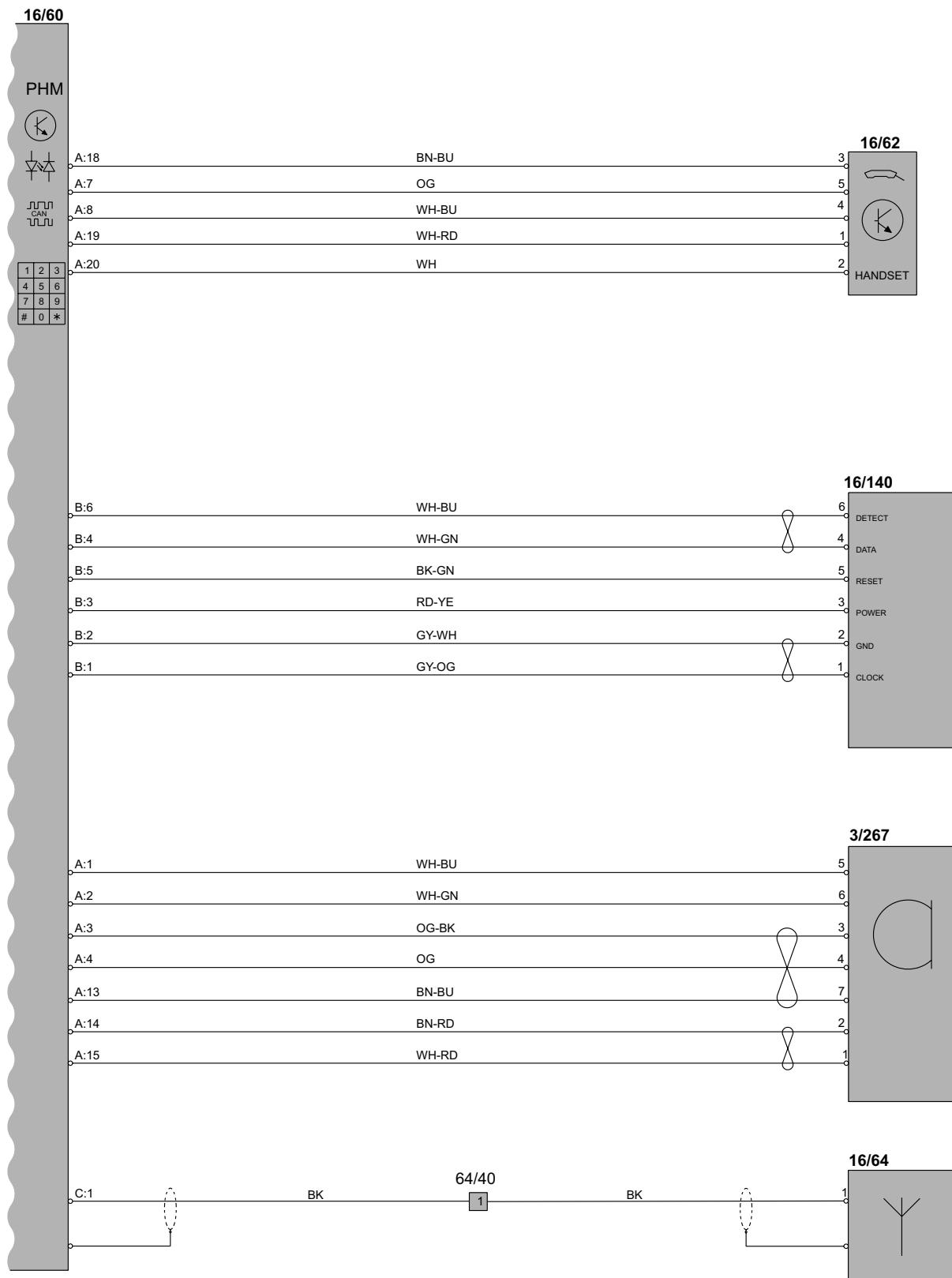
Group 39 Other

Cellular phone 1:2



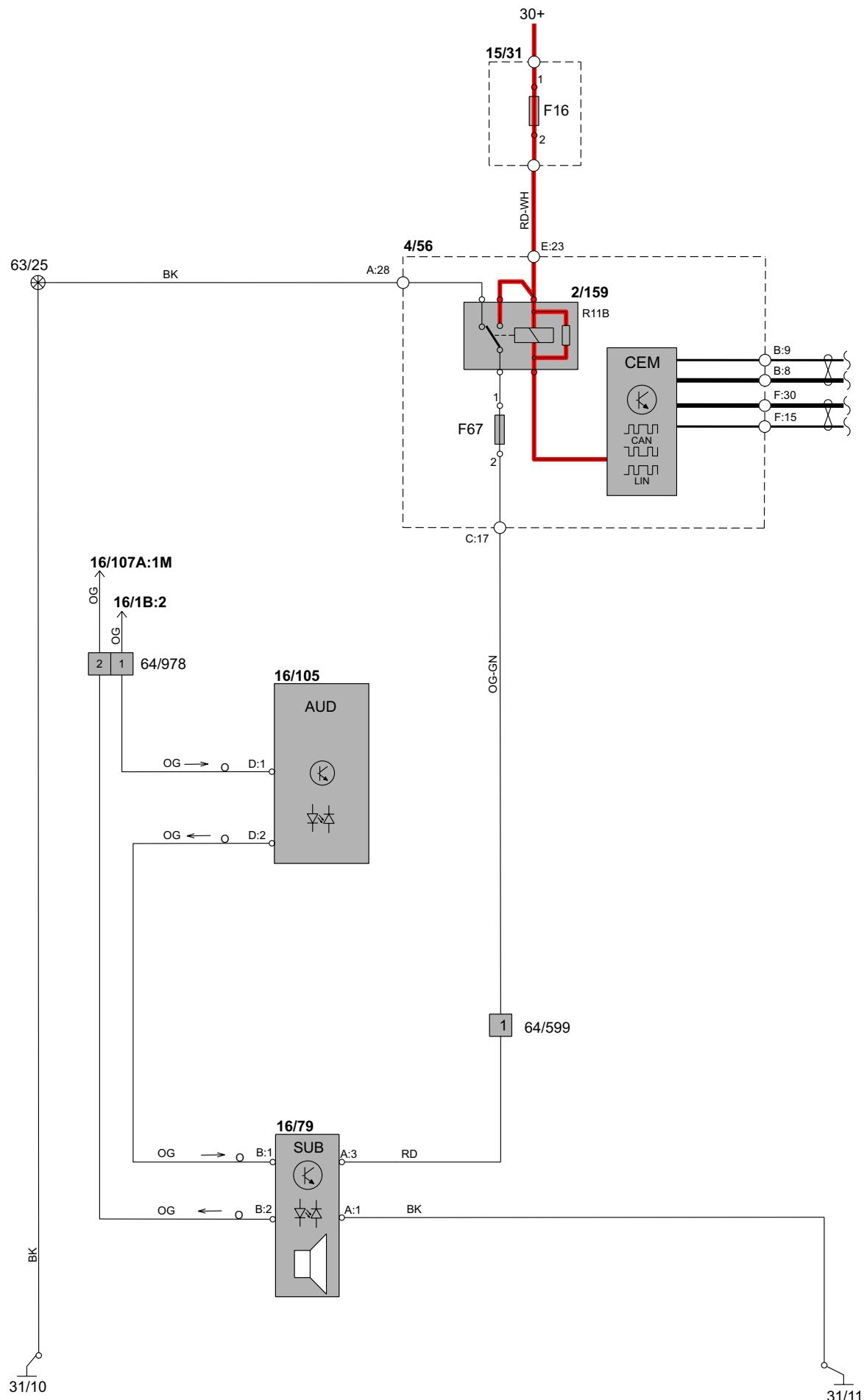
Group 39 Other

Cellular phone 2:2



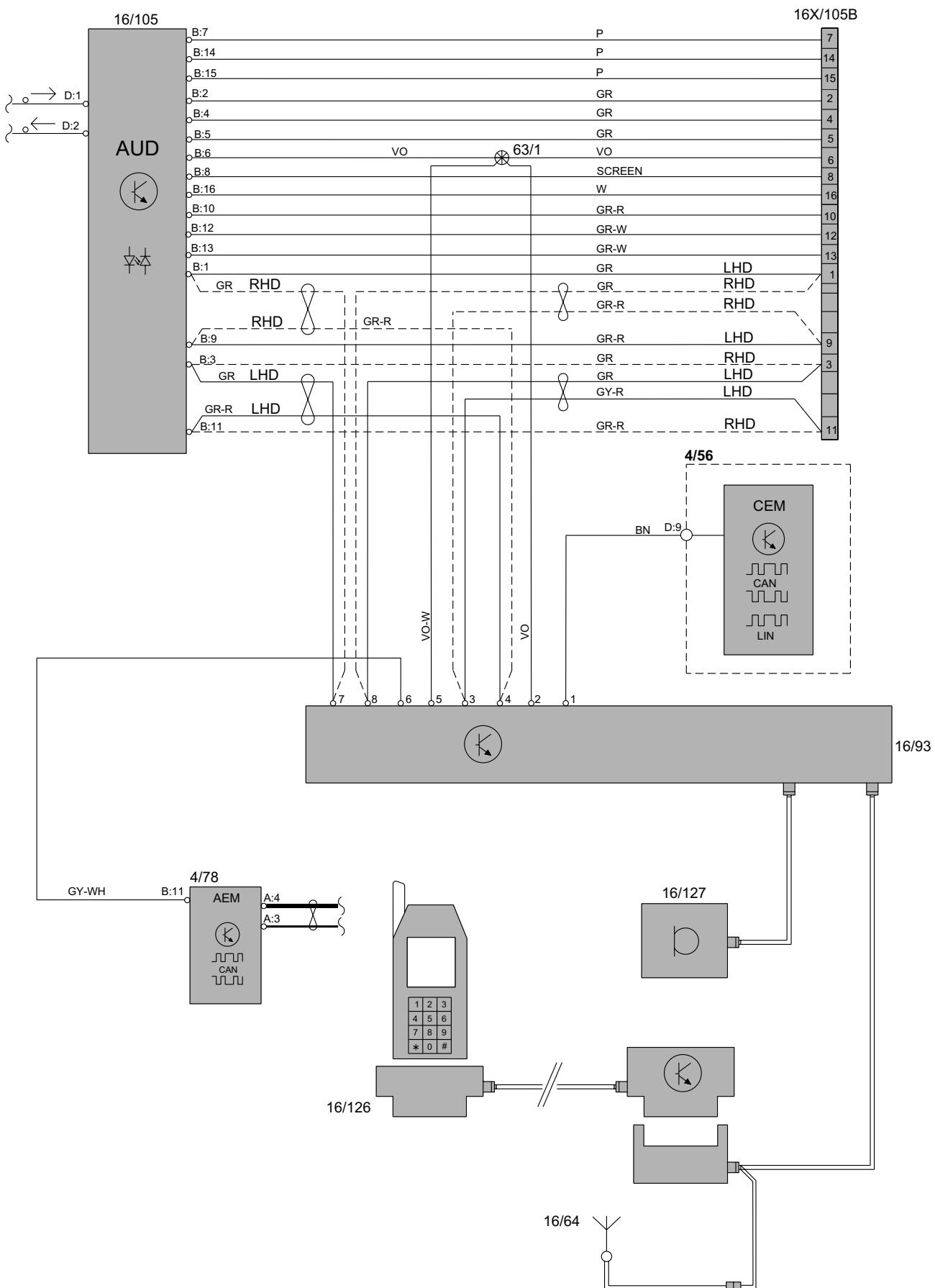
Group 39 Other, Accessories

Subwoofer



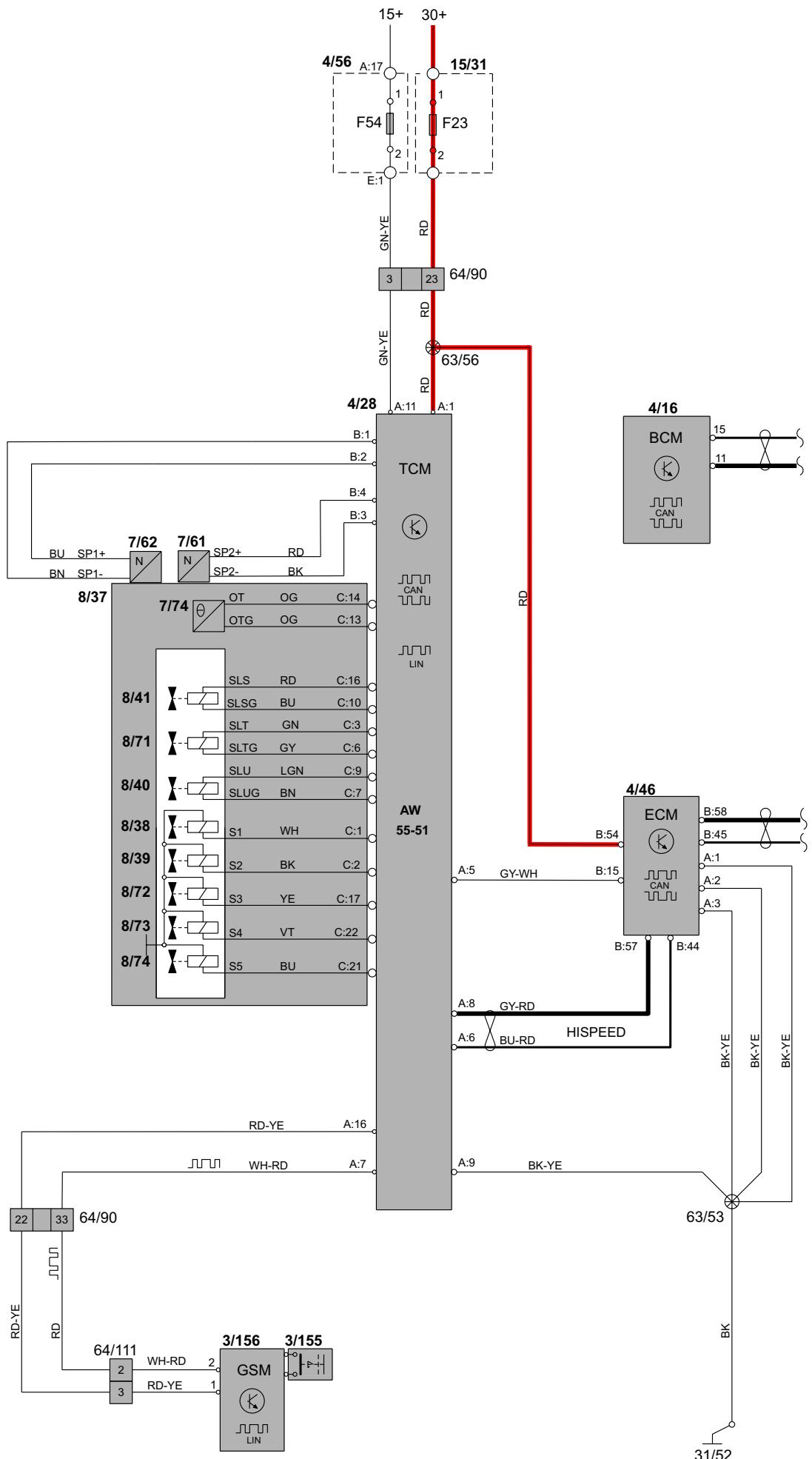
Group 39 Other, Accessories

Handsfree



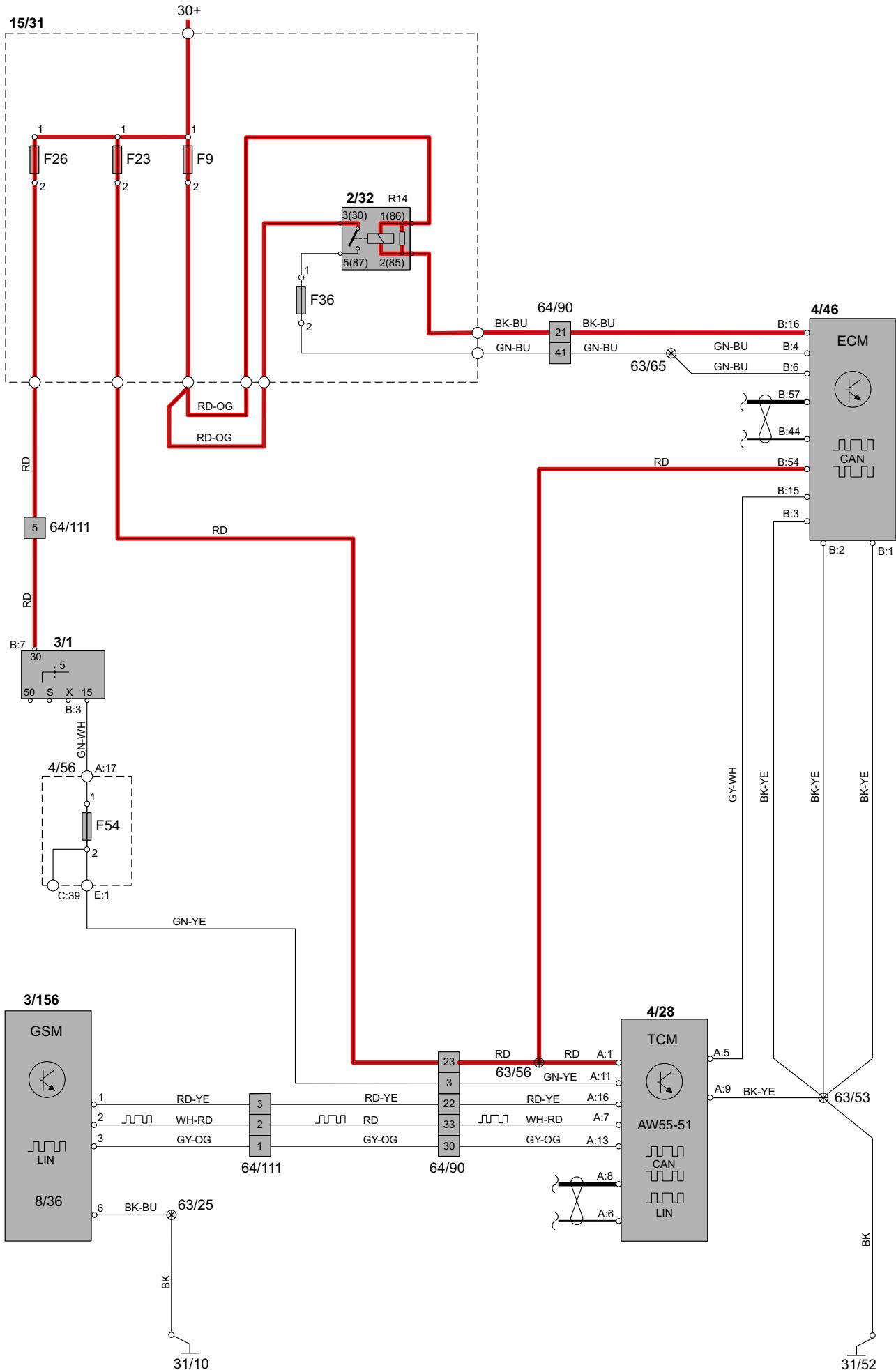
Group 43 Transmission

Automatic transmission AW55-51



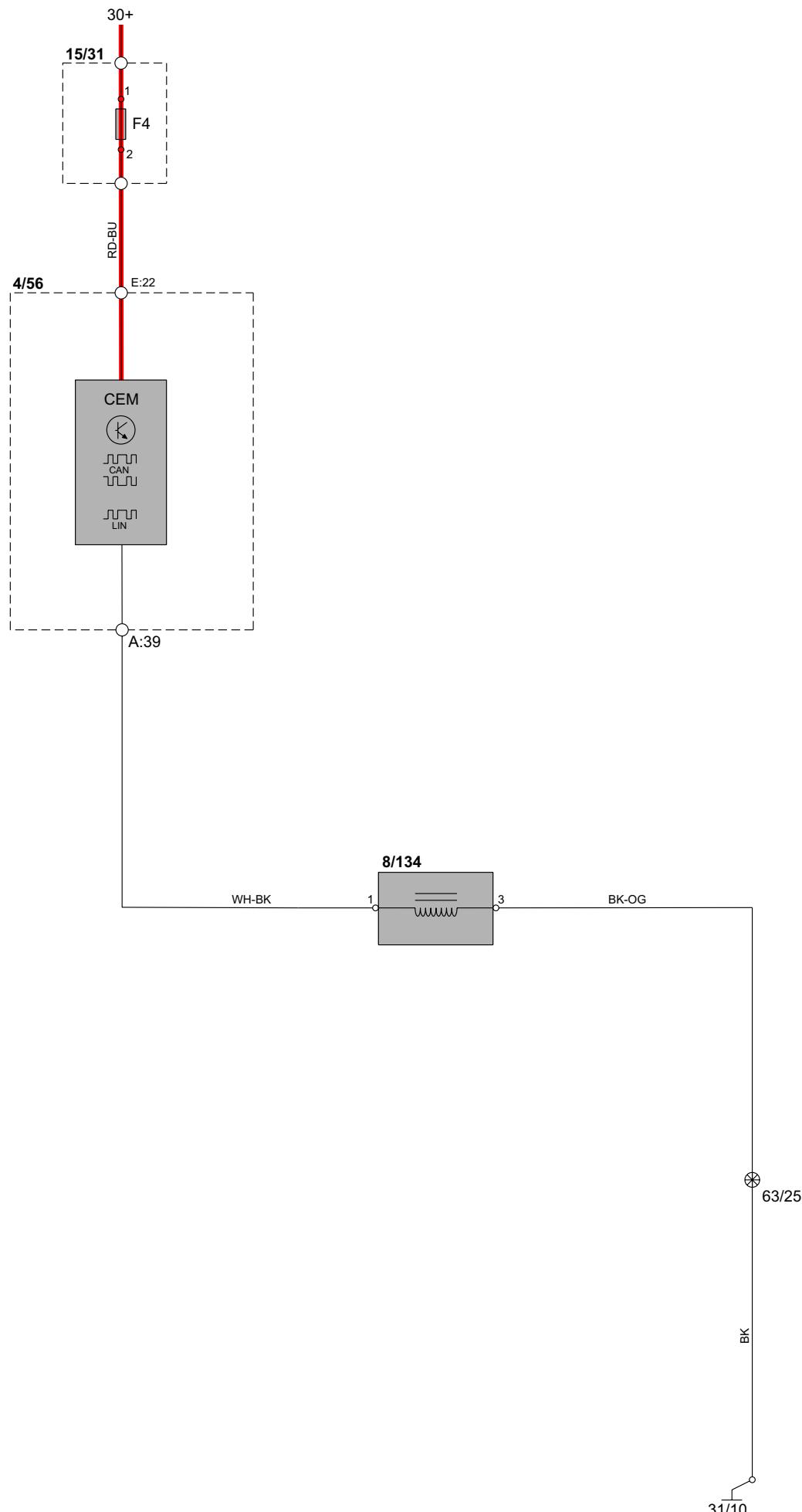
Group 43 Transmission

Shift interlock



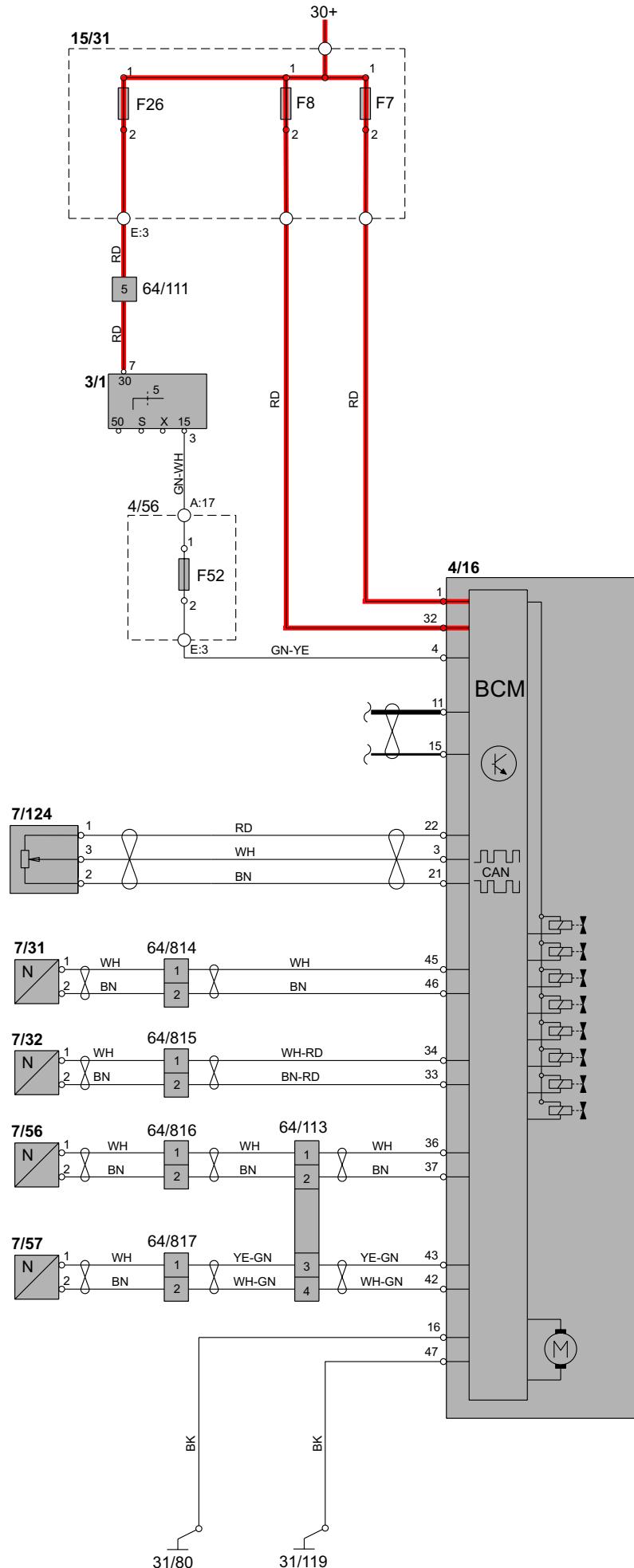
Group 43 Transmission

Transmission M66



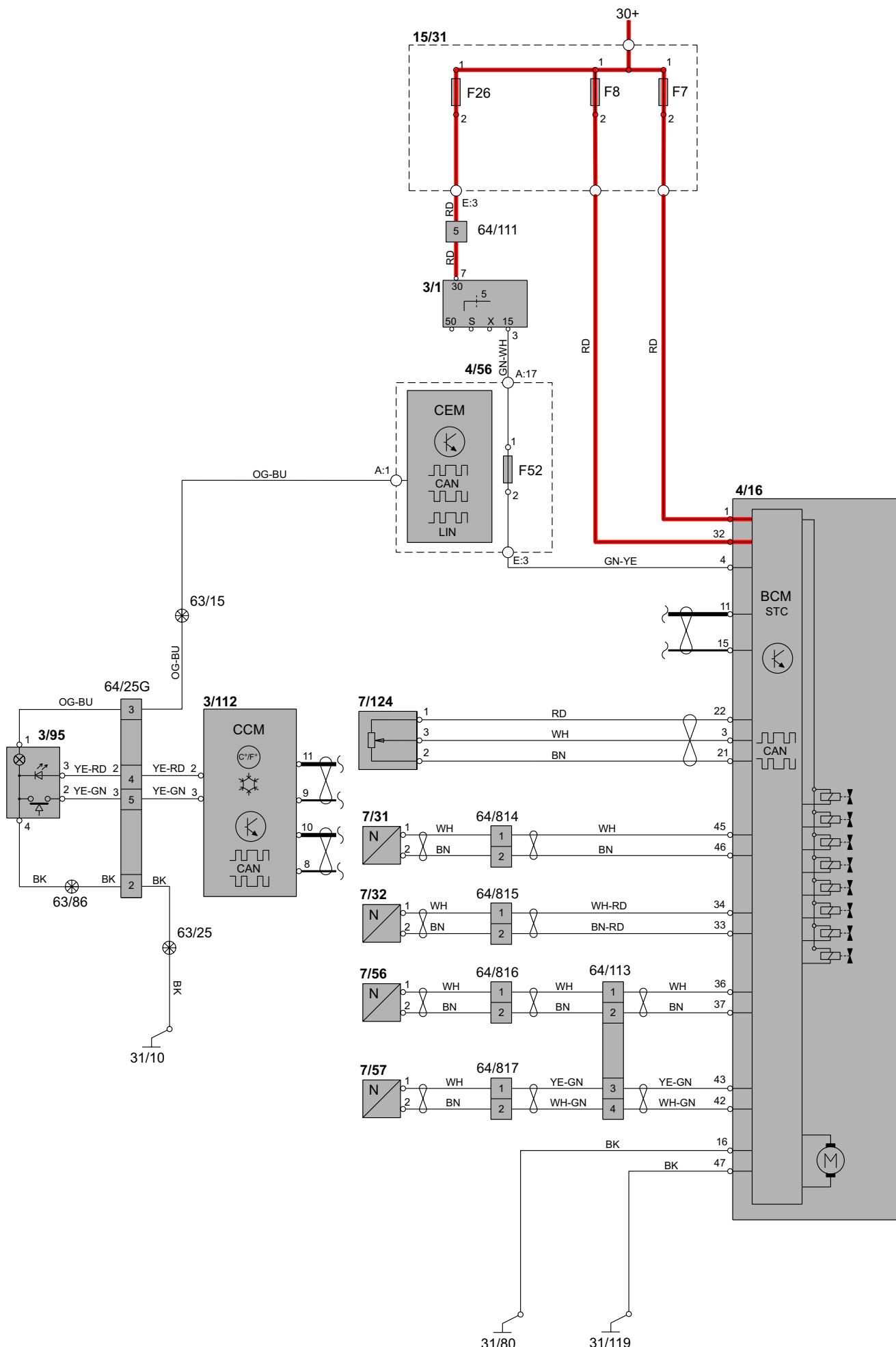
Group 59 Brake system

Brake control system



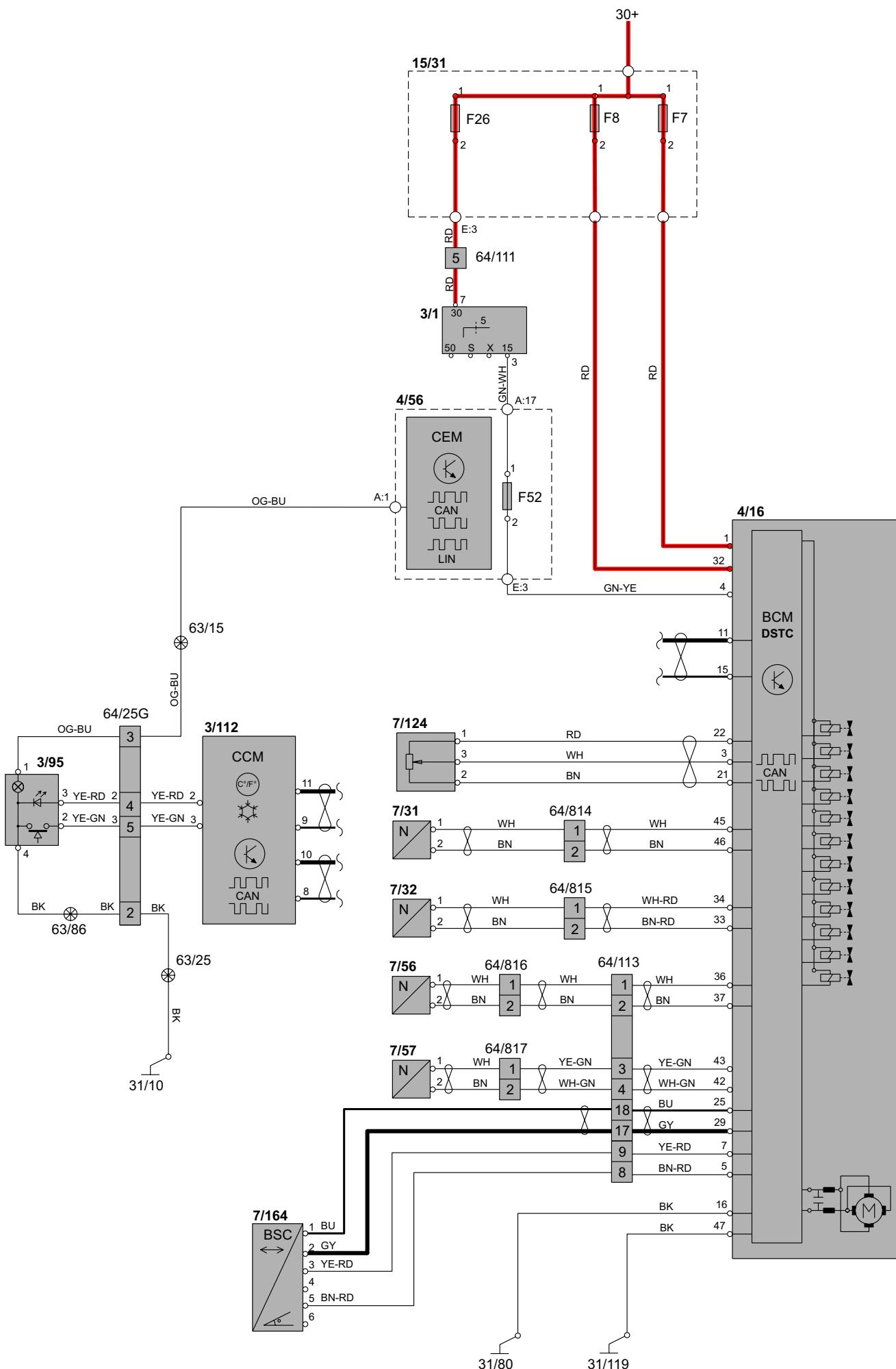
Group 59 Brake system

Brake control system & STC



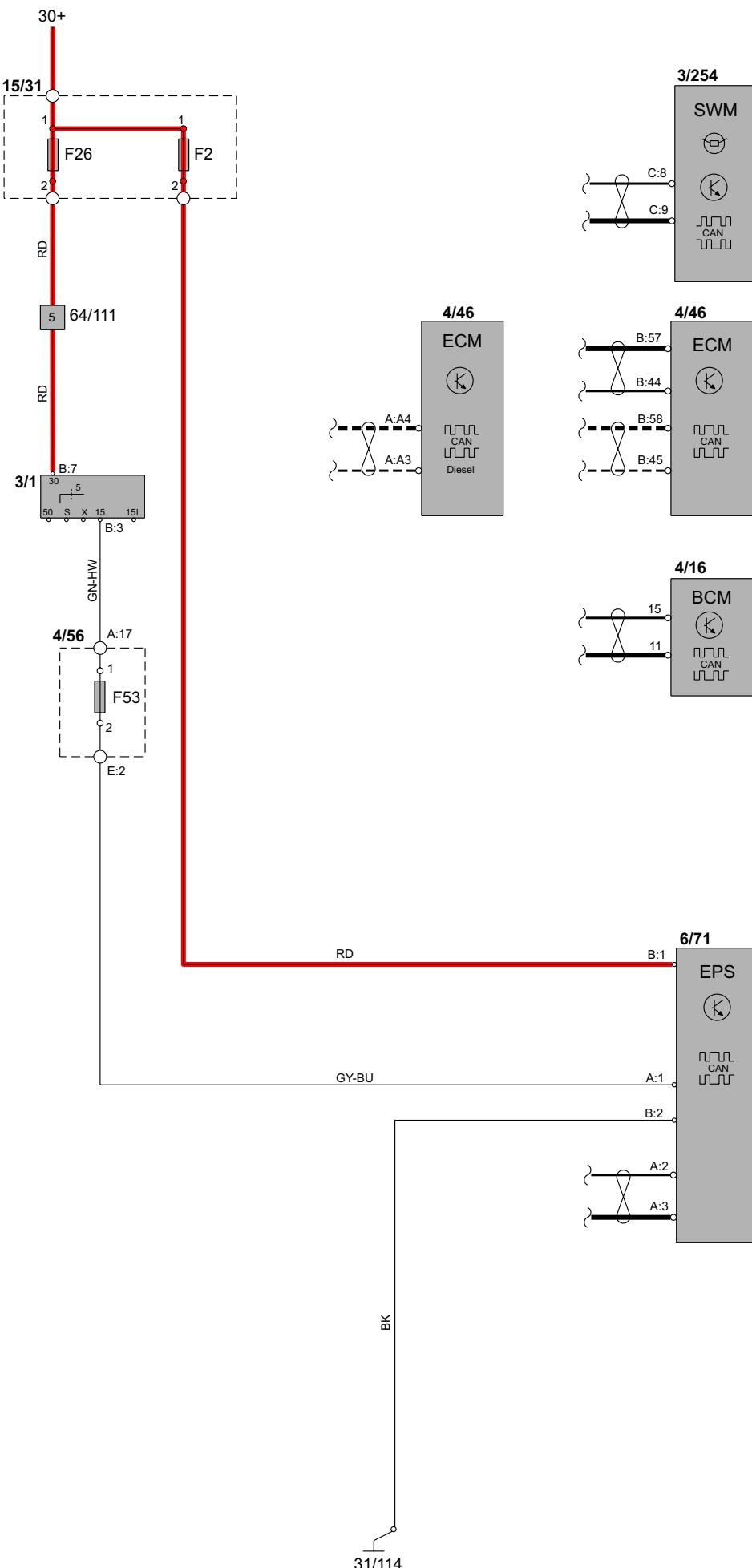
Group 59 Brake system

Brake control system & DSTC



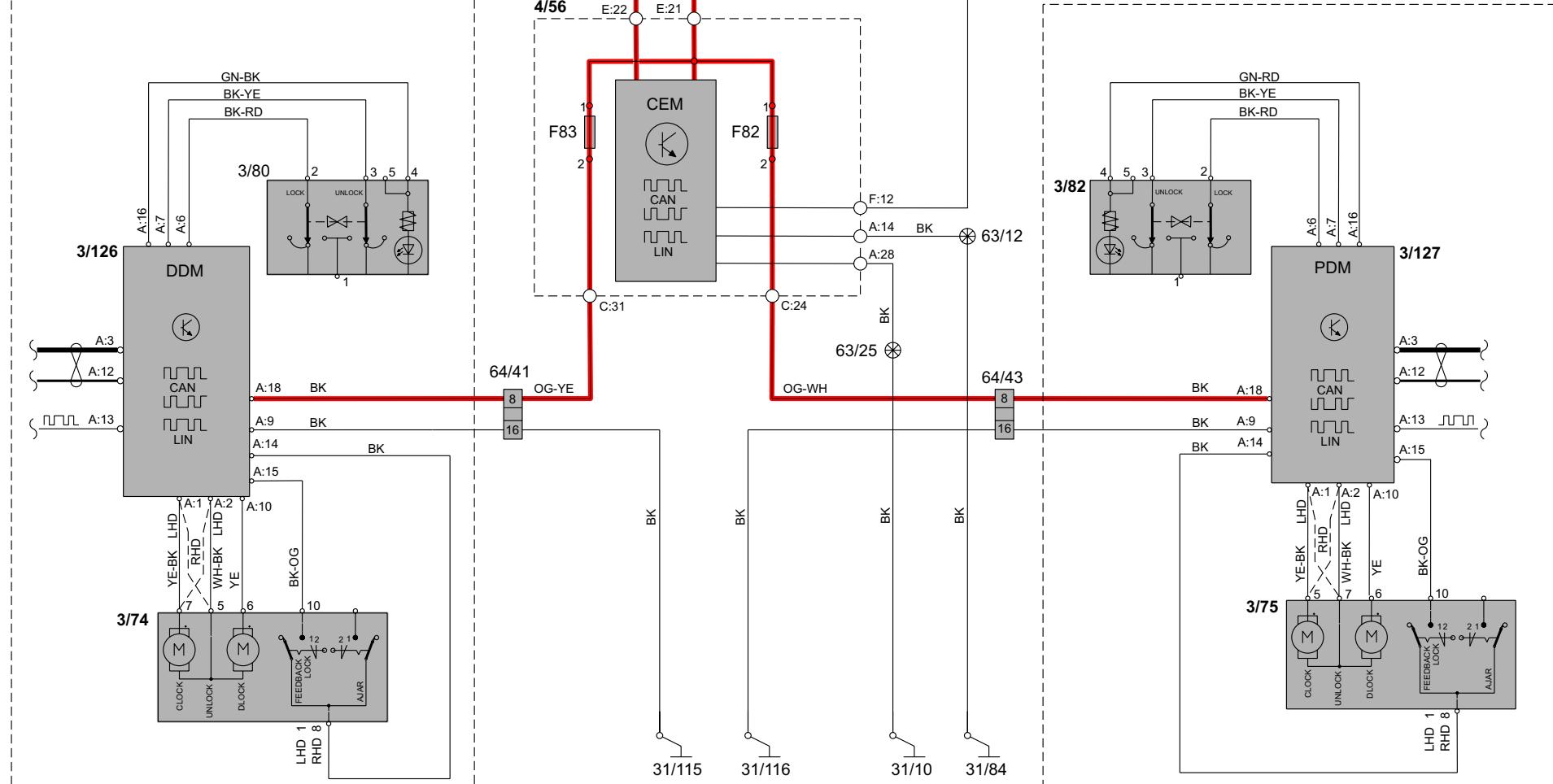
Group 64 Steering

Electronic power steering



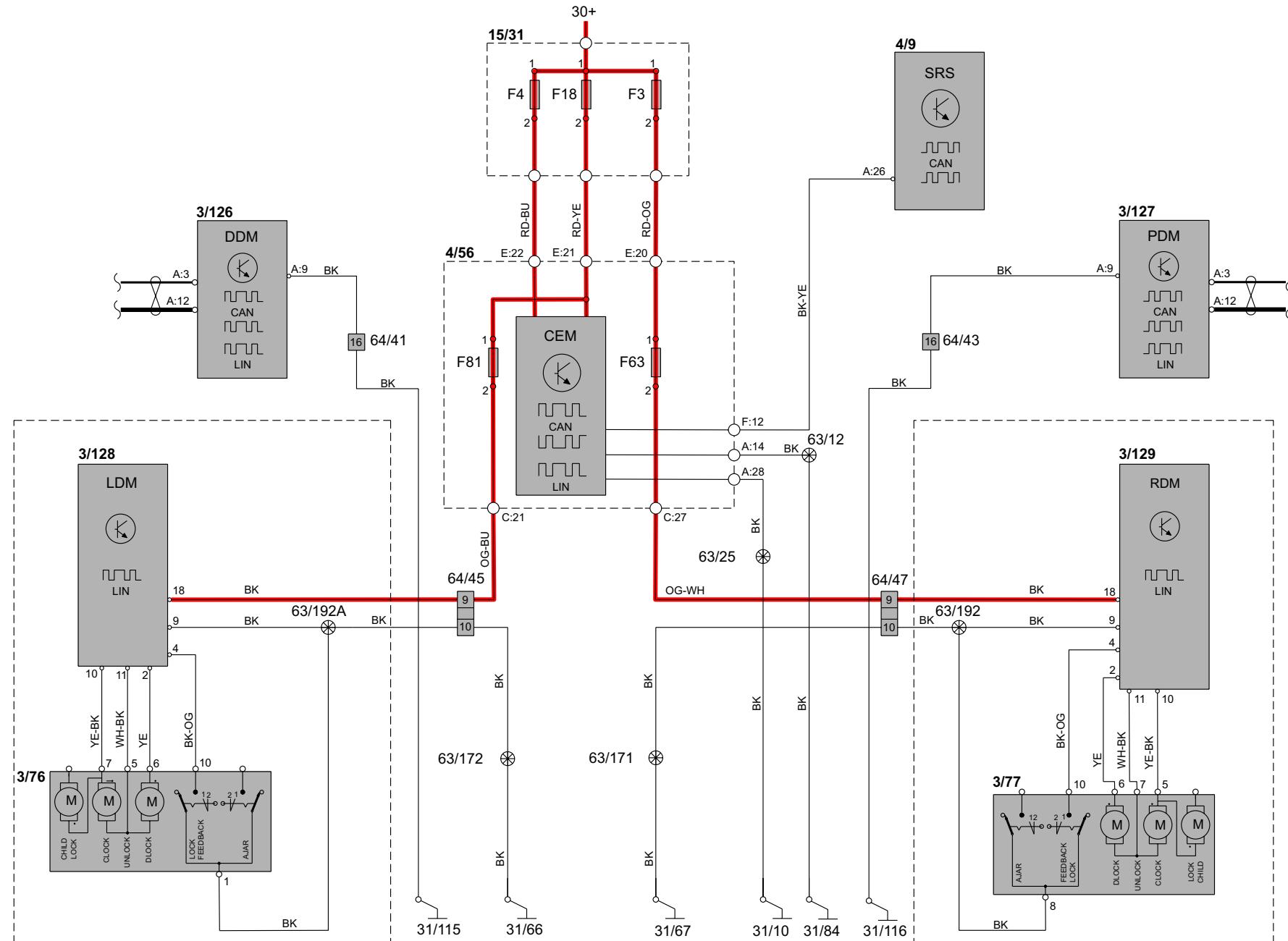
Group 83 Doors and openings

Central locking, front doors



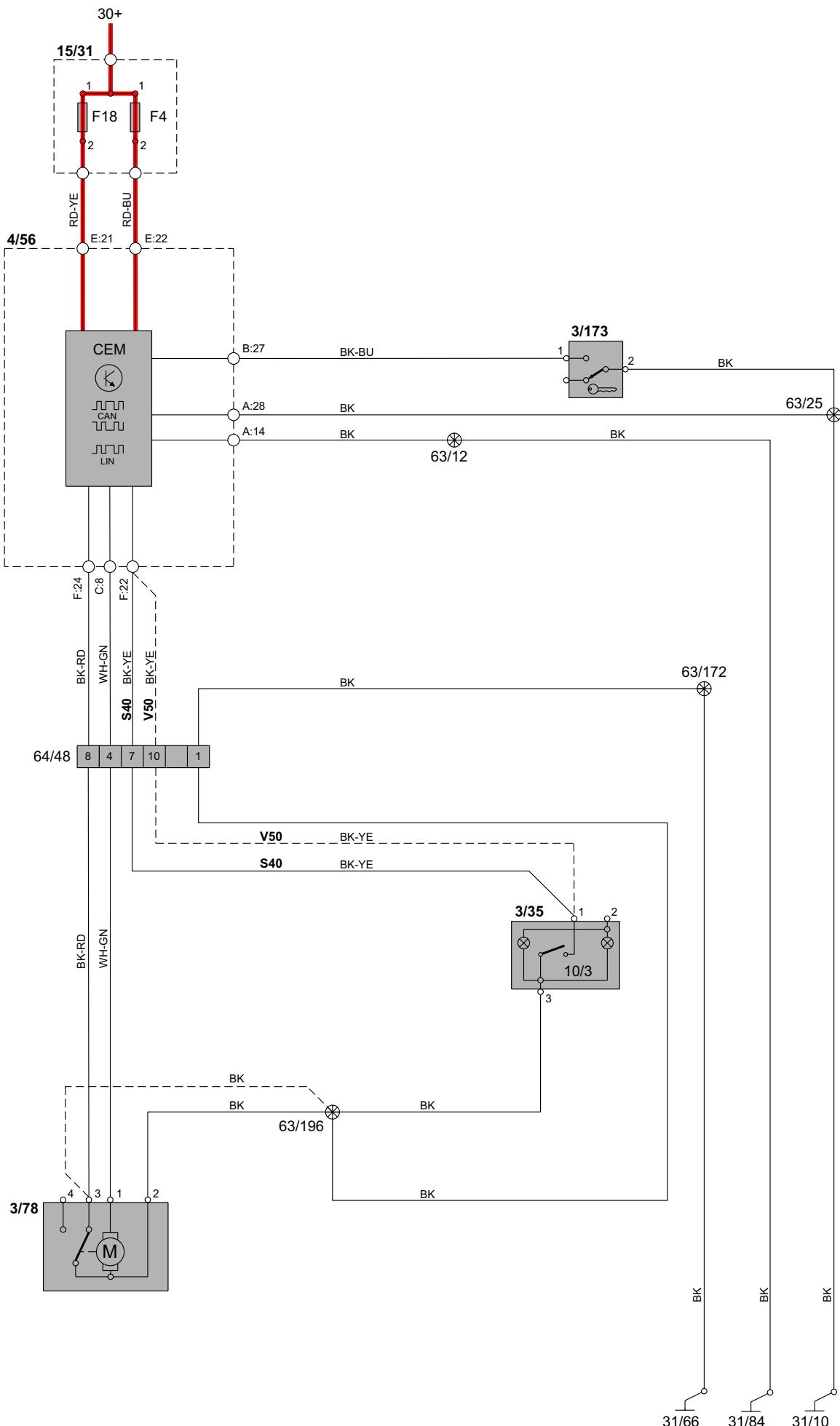
Group 83 Doors and openings

Central locking, rear doors



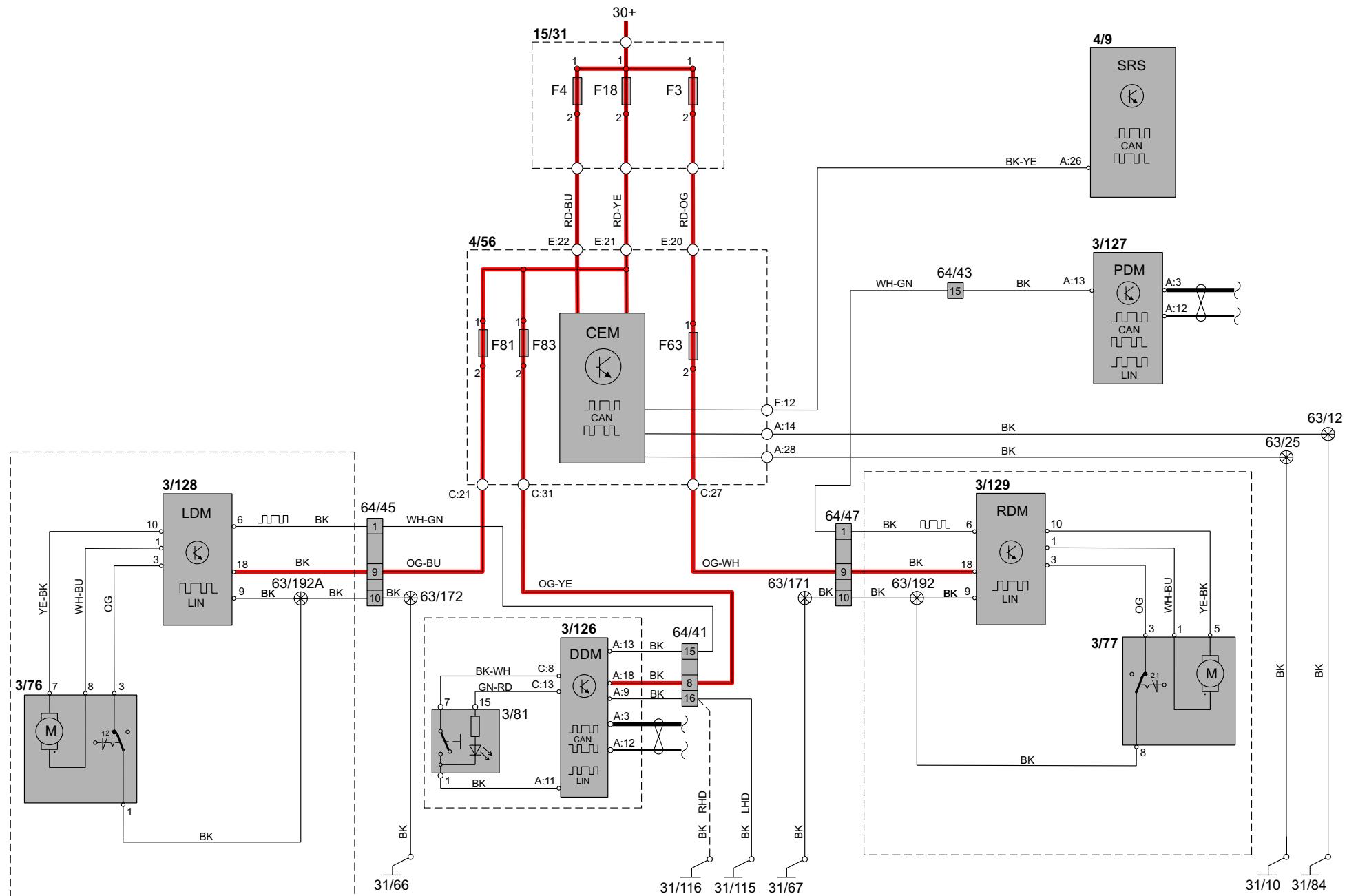
Group 83 Doors and openings

Central locking, trunk lid/tailgate



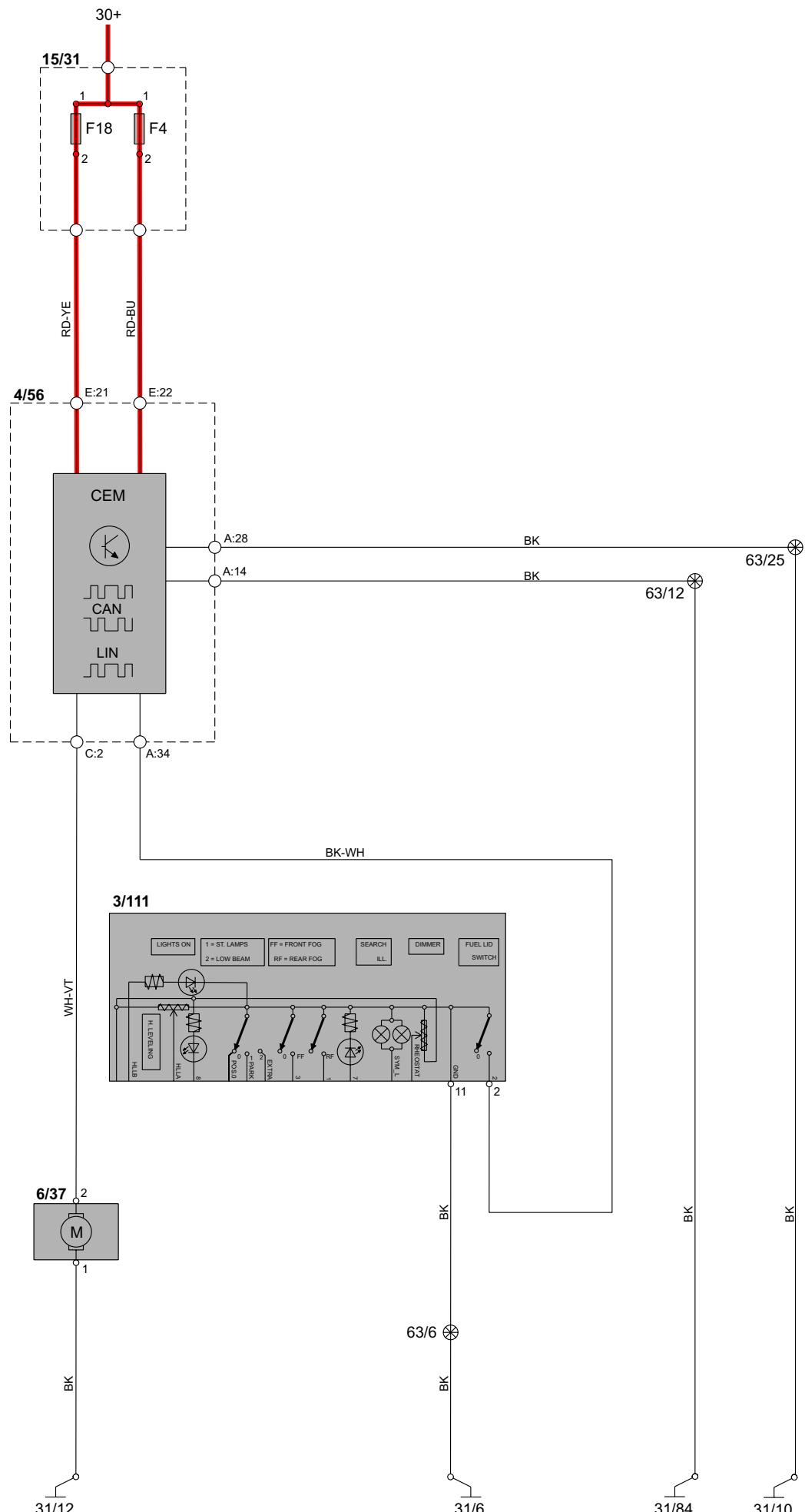
Group 83 Doors and openings

Child safety lock



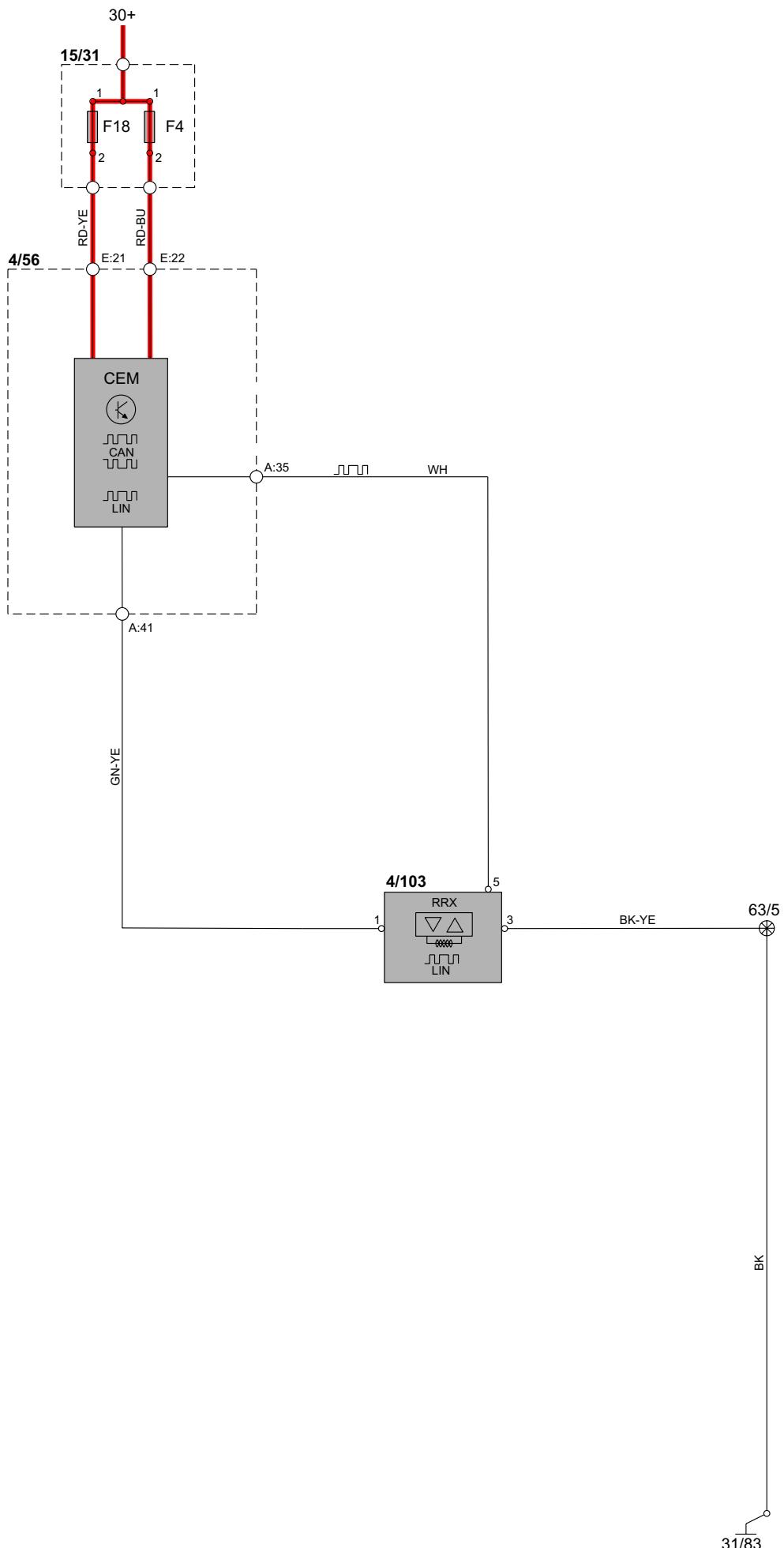
Group 83 Doors and openings

Central locking, fuel filler flap



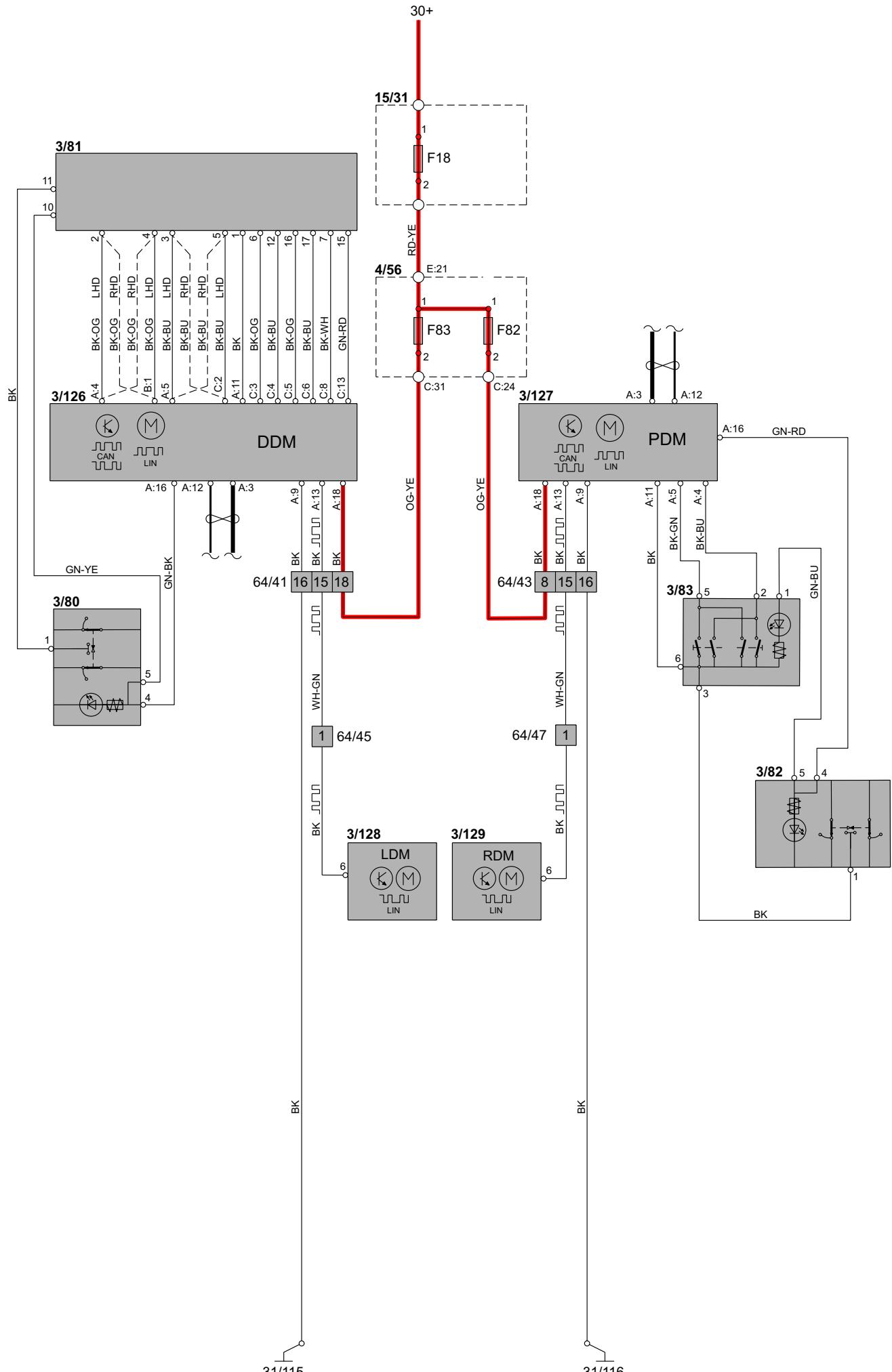
Group 83 Doors and openings

Signal receiver, remote-control, central locking



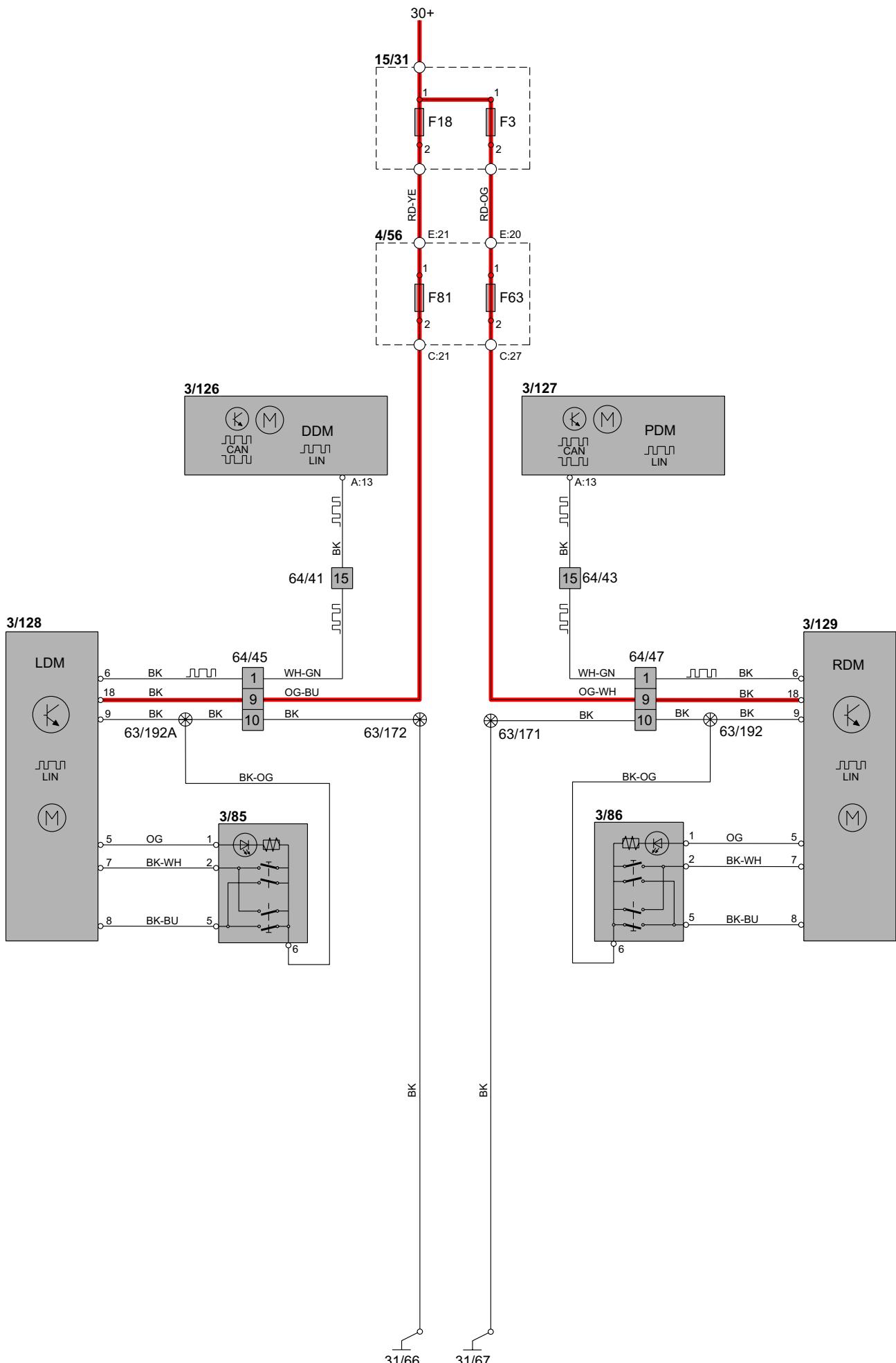
Group 83 Doors and openings

Power windows, front doors



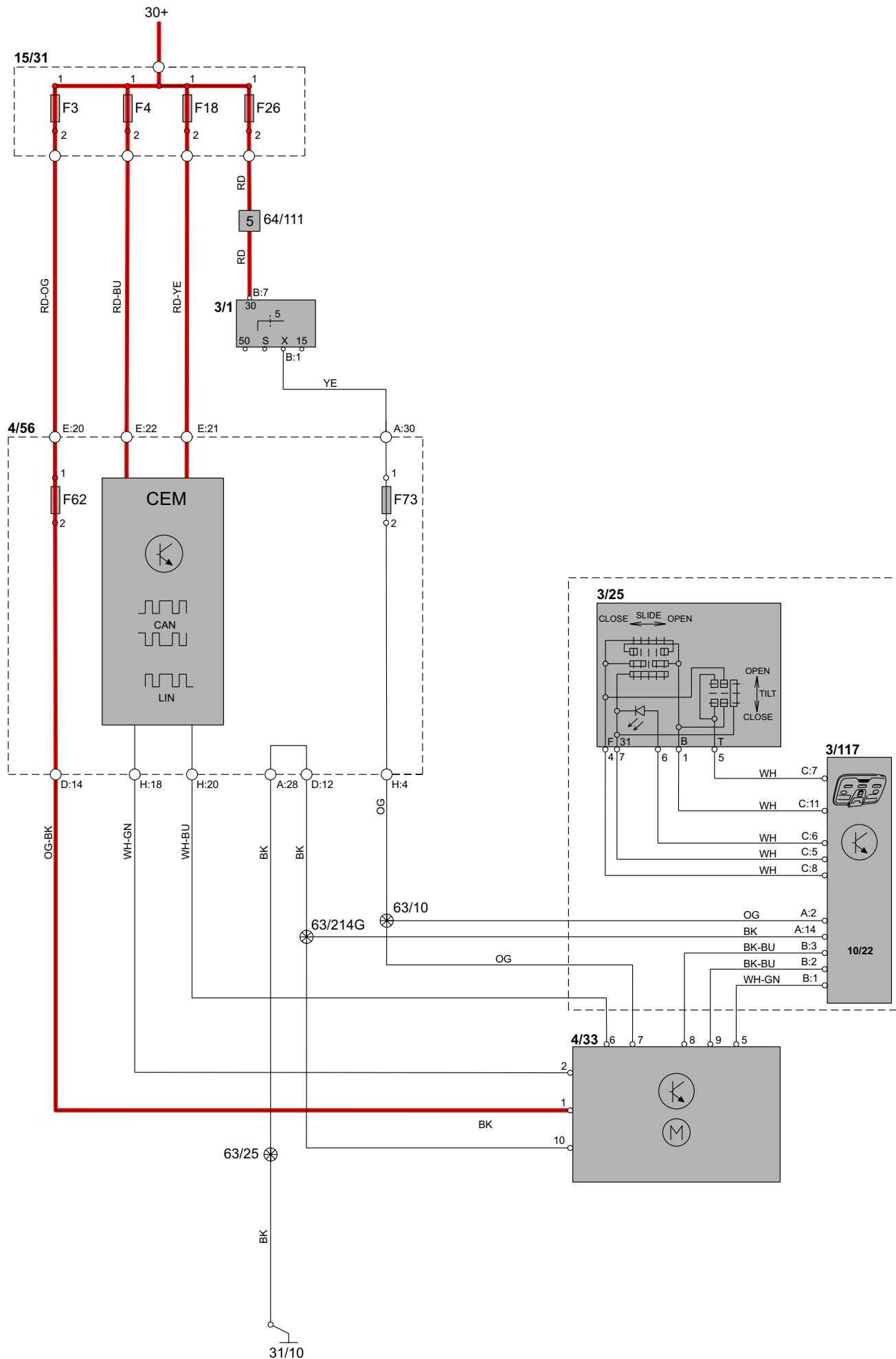
Group 83 Doors and openings

Power windows, rear doors



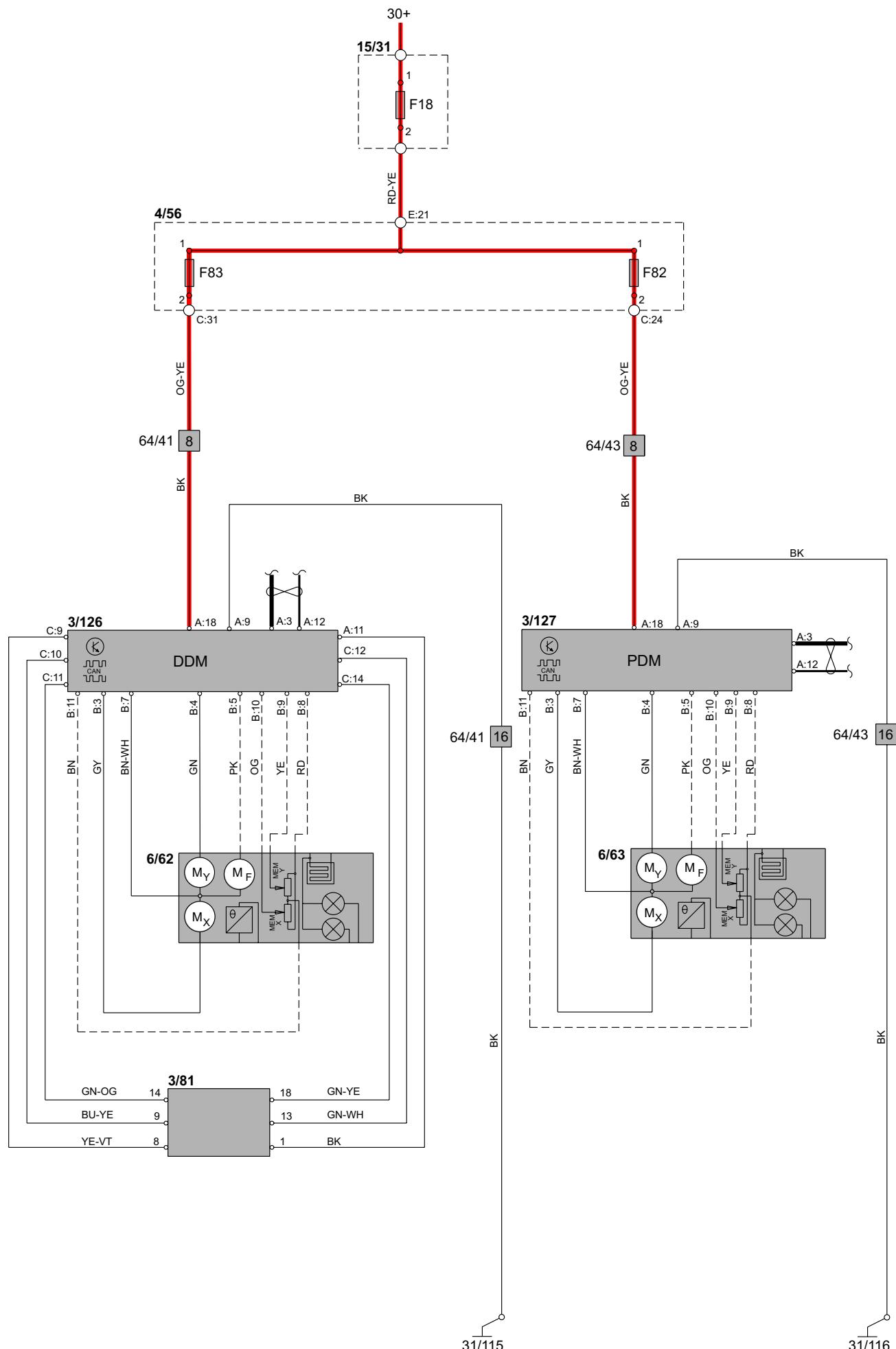
Group 83 Doors and openings

Power sunroof



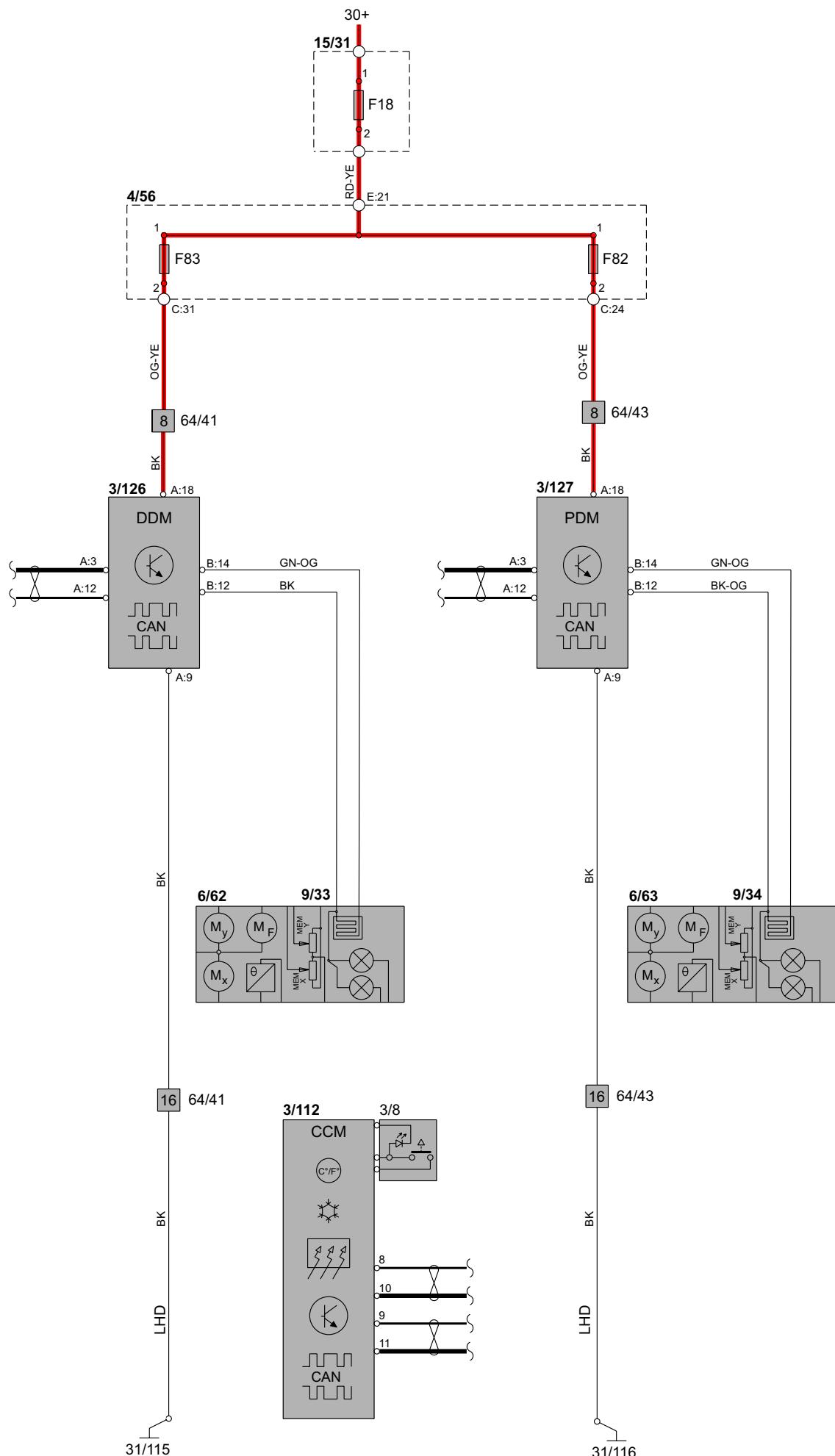
Group 84 Exterior decorative elements, etc.

Power door mirrors



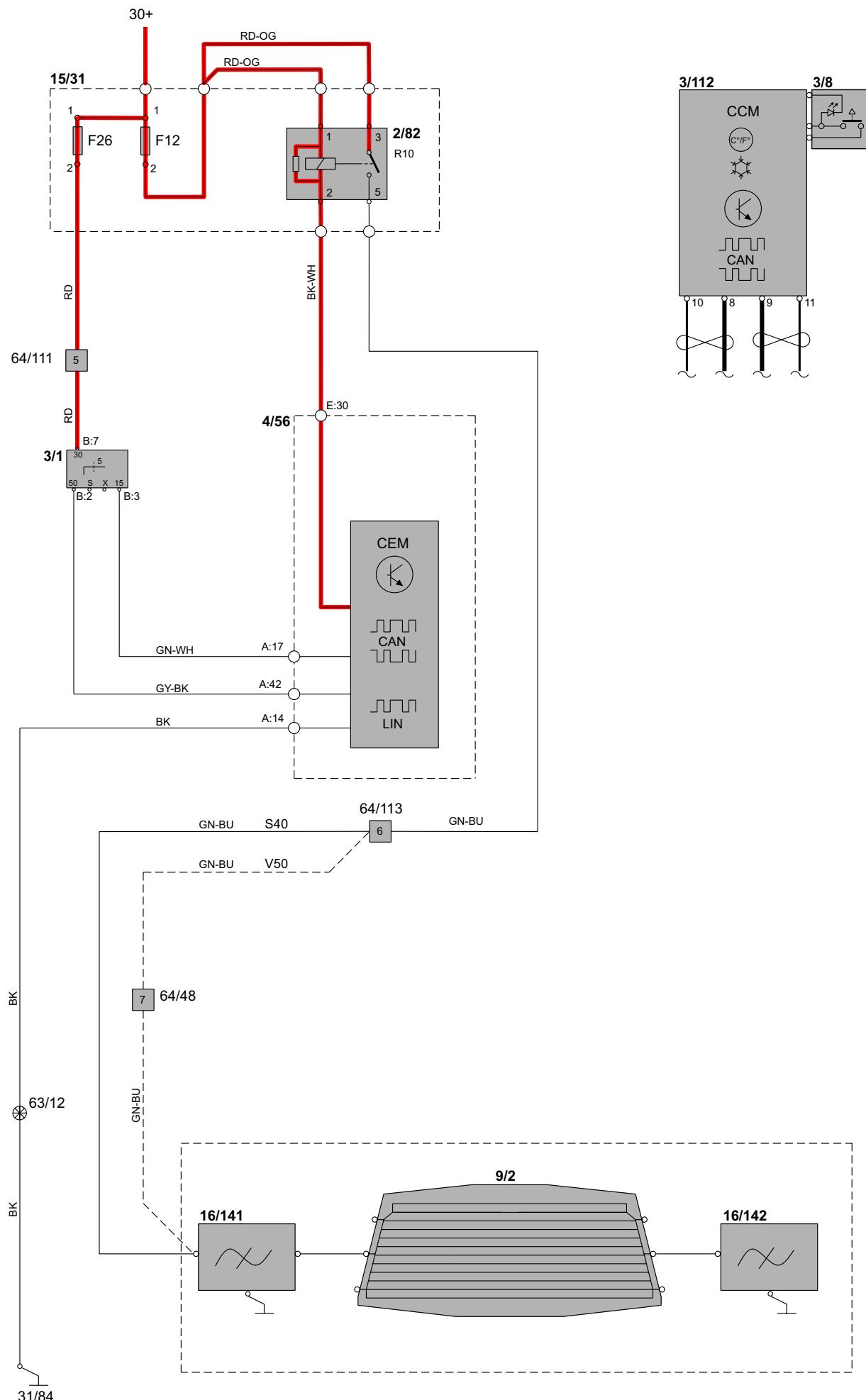
Group 84 Exterior decorative elements, etc.

Heated door mirrors



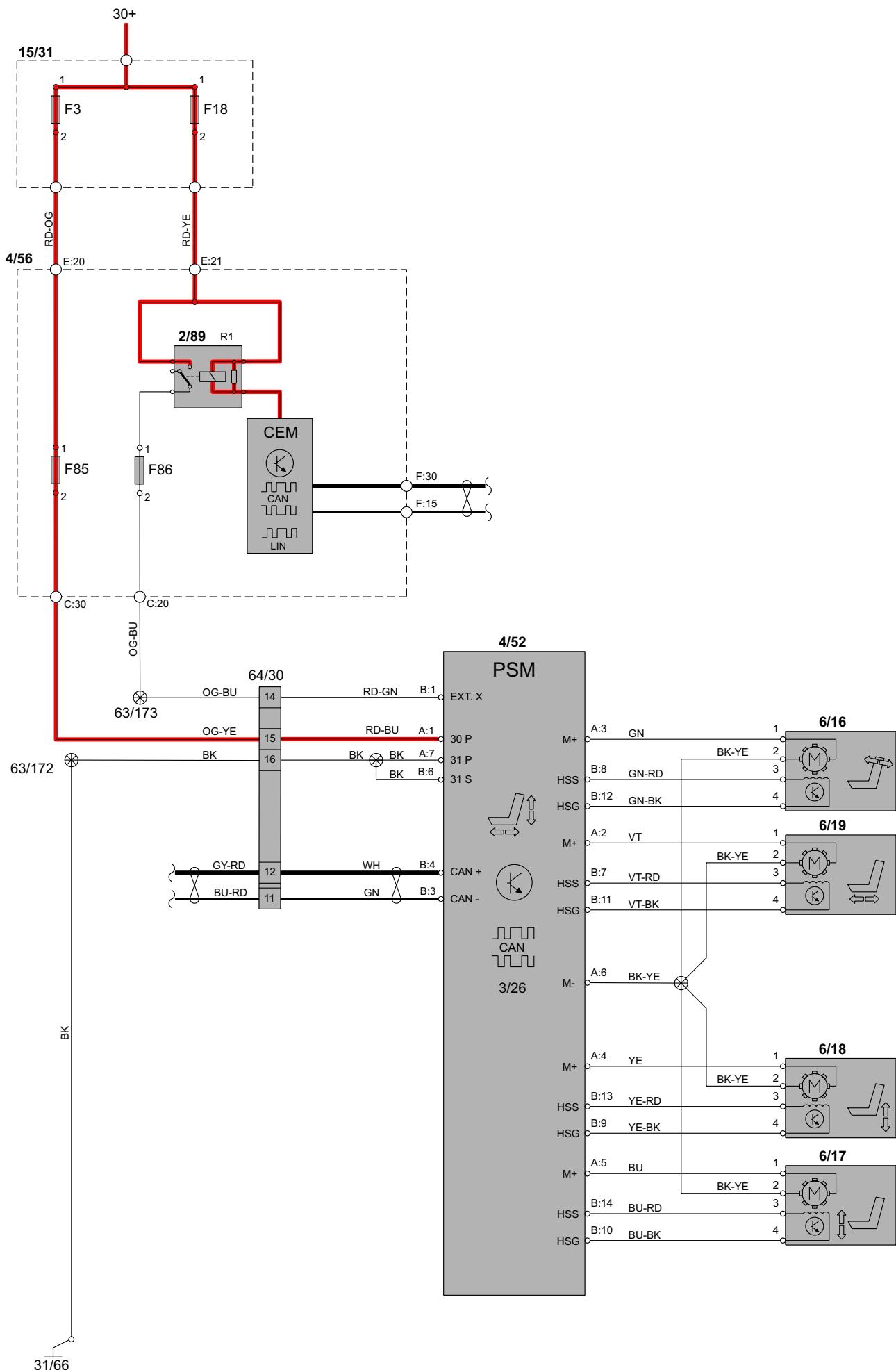
Group 84 Exterior decorative elements, etc.

Heated rear window



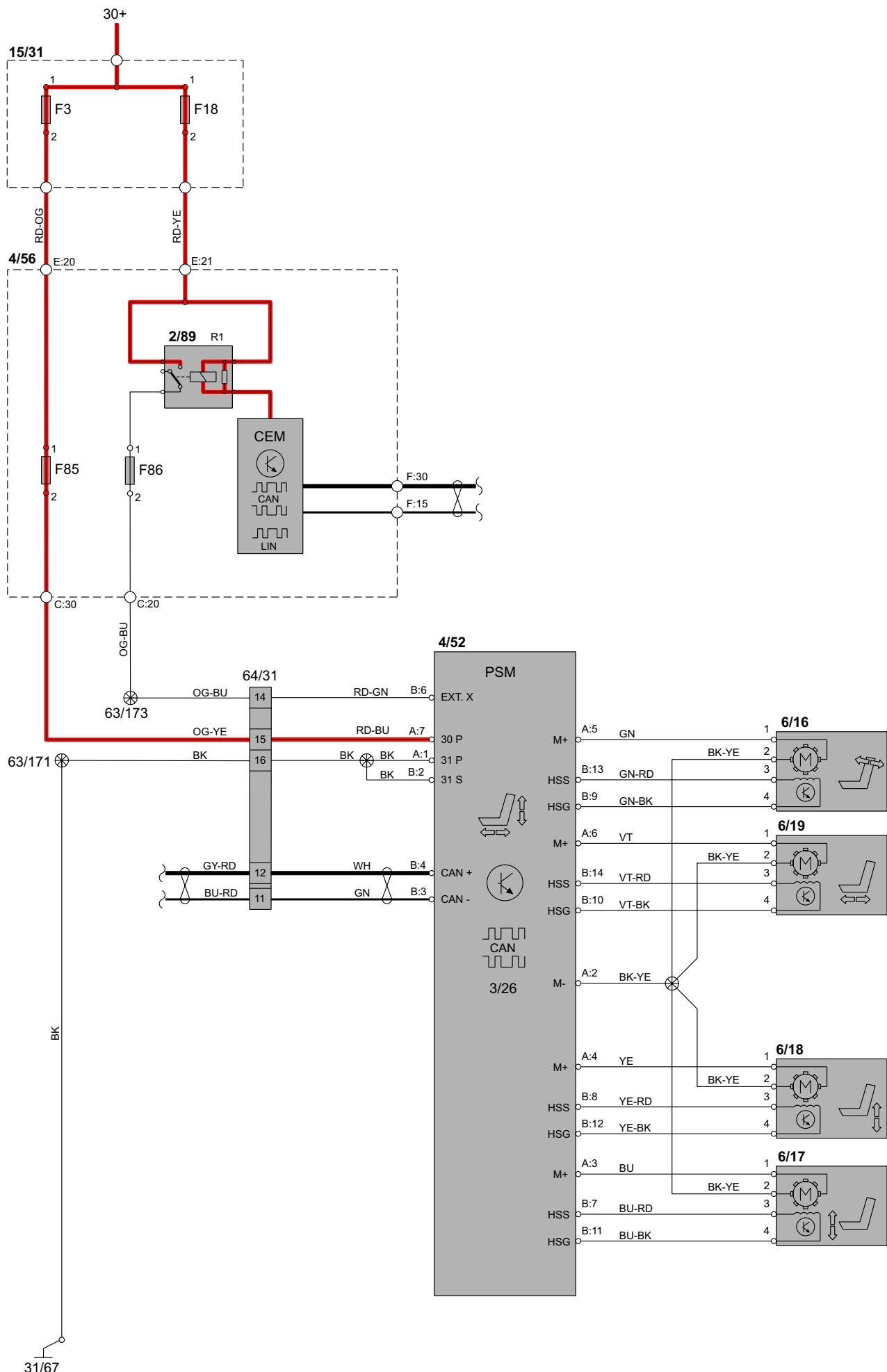
Group 85 Interior equipment

Power driver's seat with memory function, LHD



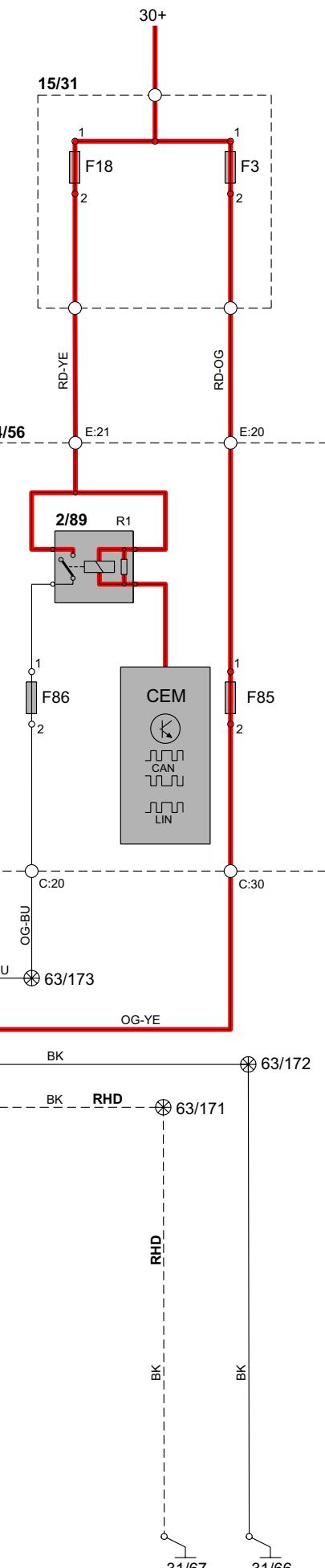
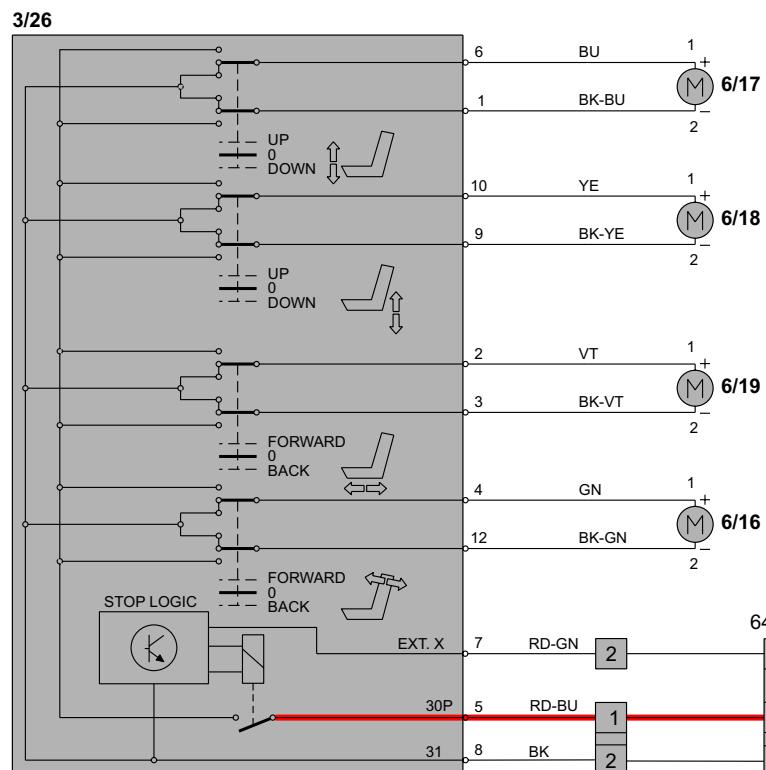
Group 85 Interior equipment

Power driver's seat with memory function, RHD



Group 85 Interior equipment

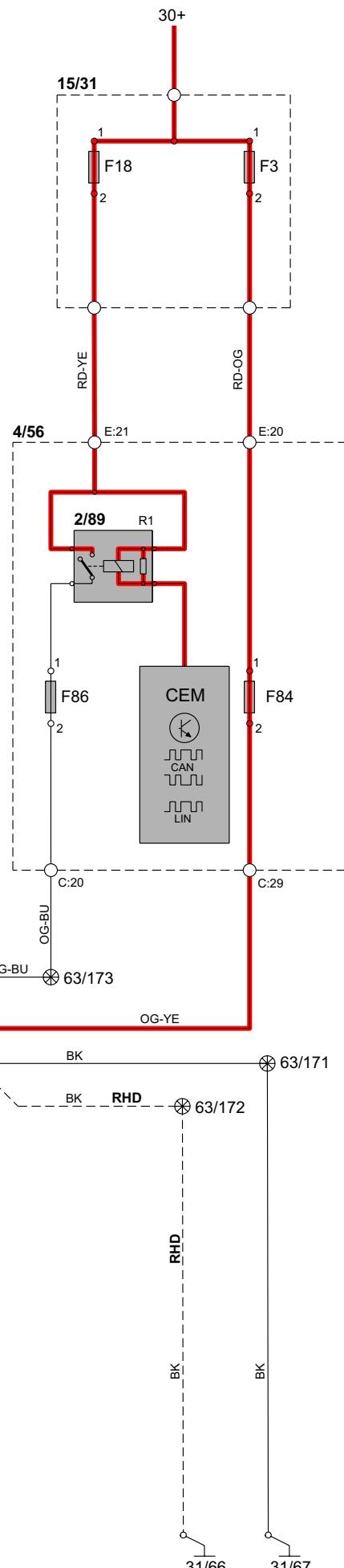
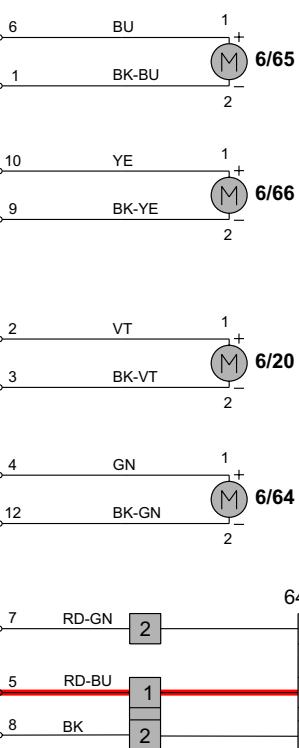
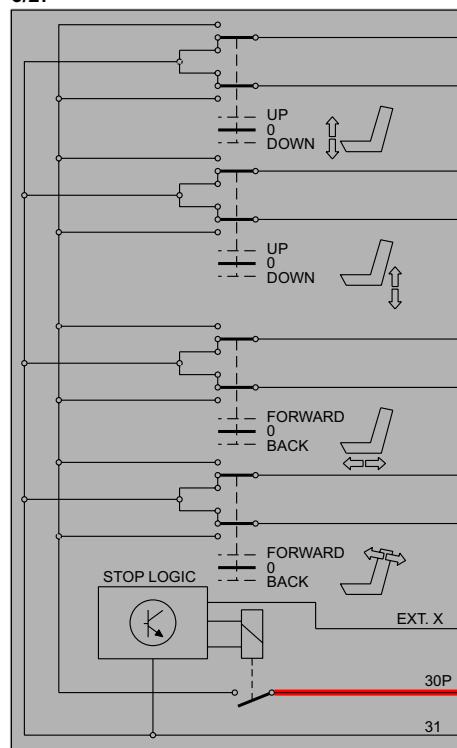
Power driver's seat



Group 85 Interior equipment

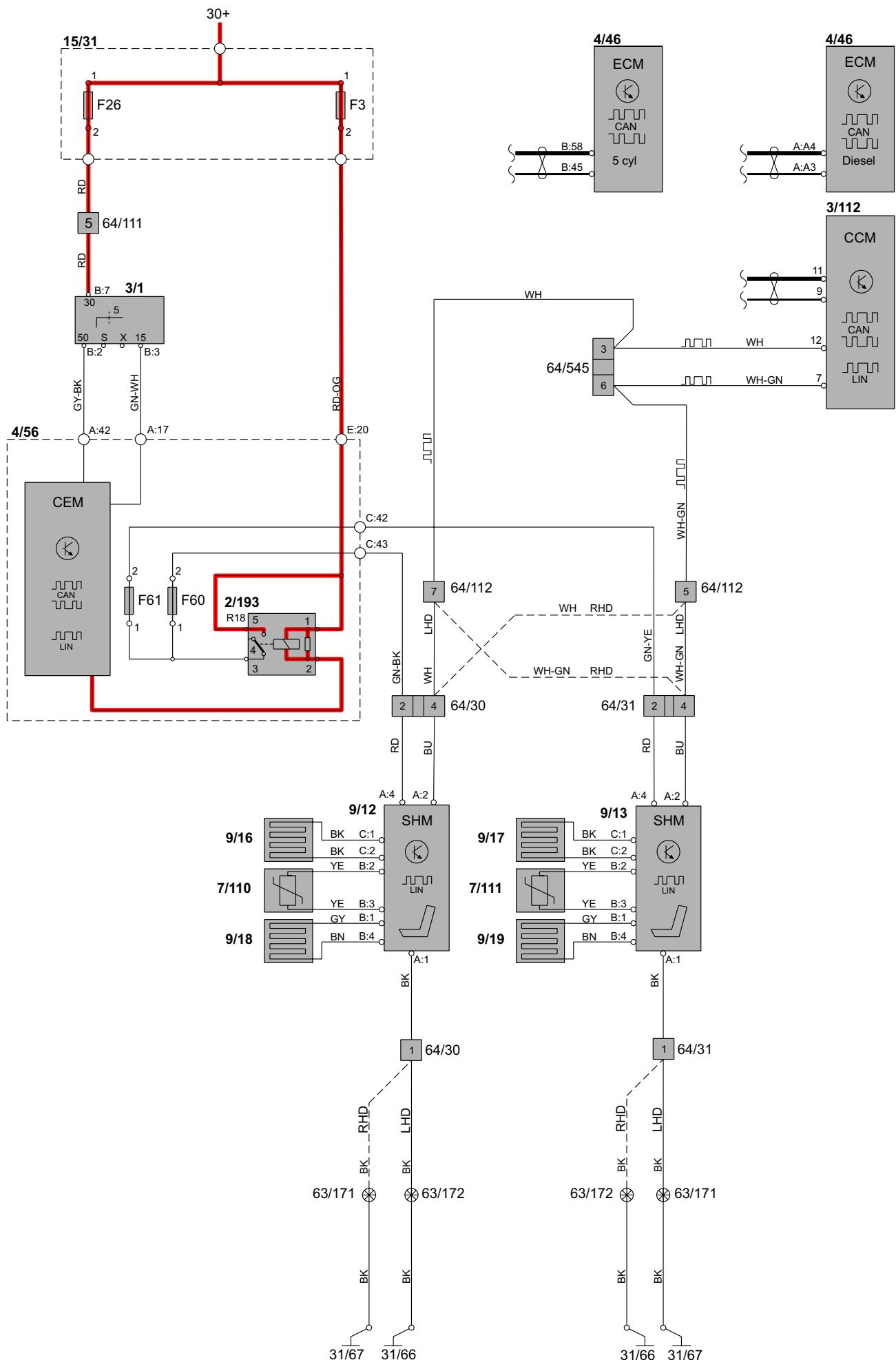
Power passenger seat

3/27



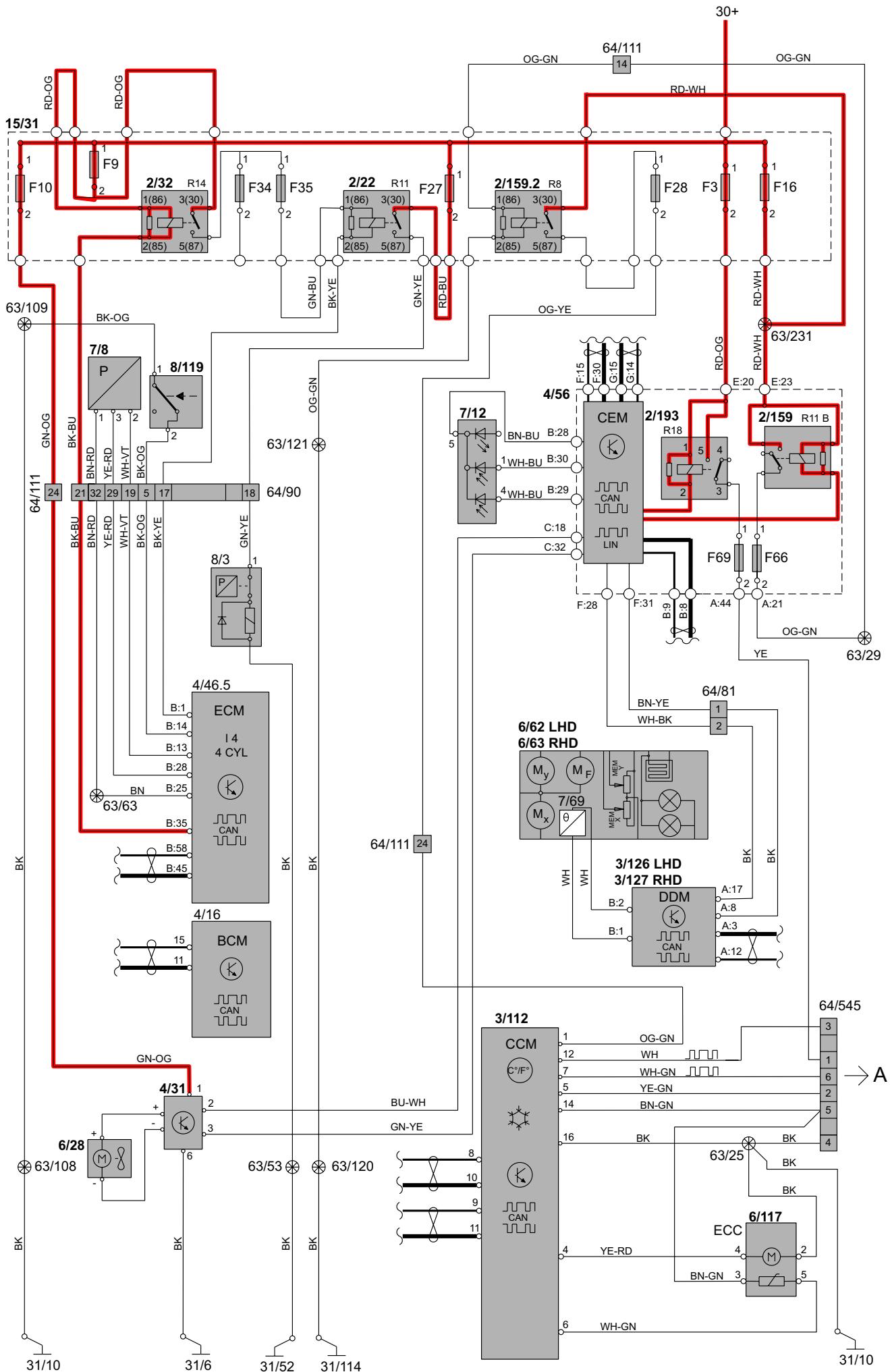
Group 85 Interior equipment

Heated seats

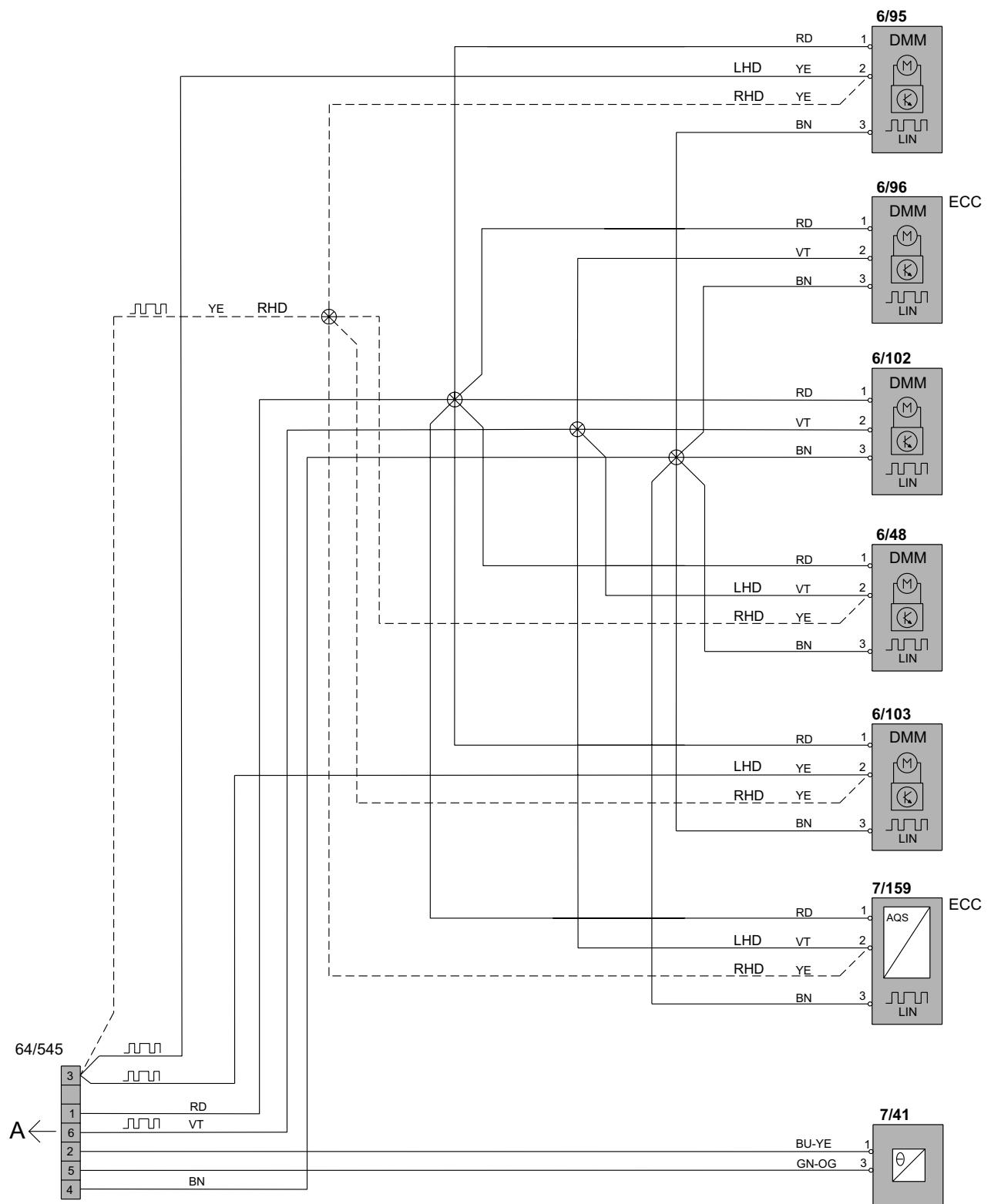


Group 87 Climate controls

Climate control system 4-cyl 1.8I 1:2

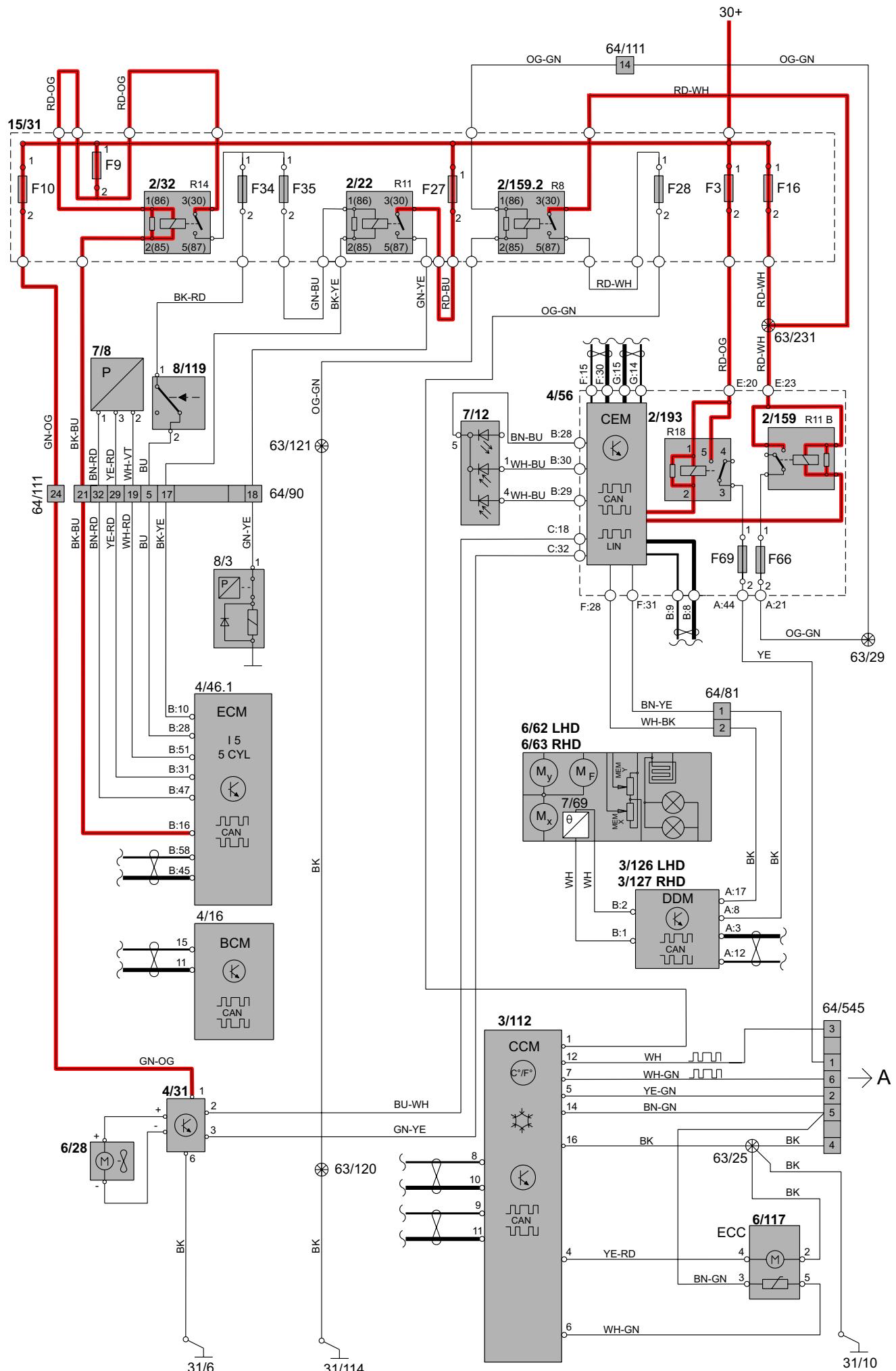


Group 87 Climate controls
Climate control system 4-cyl 1.8I 2:2



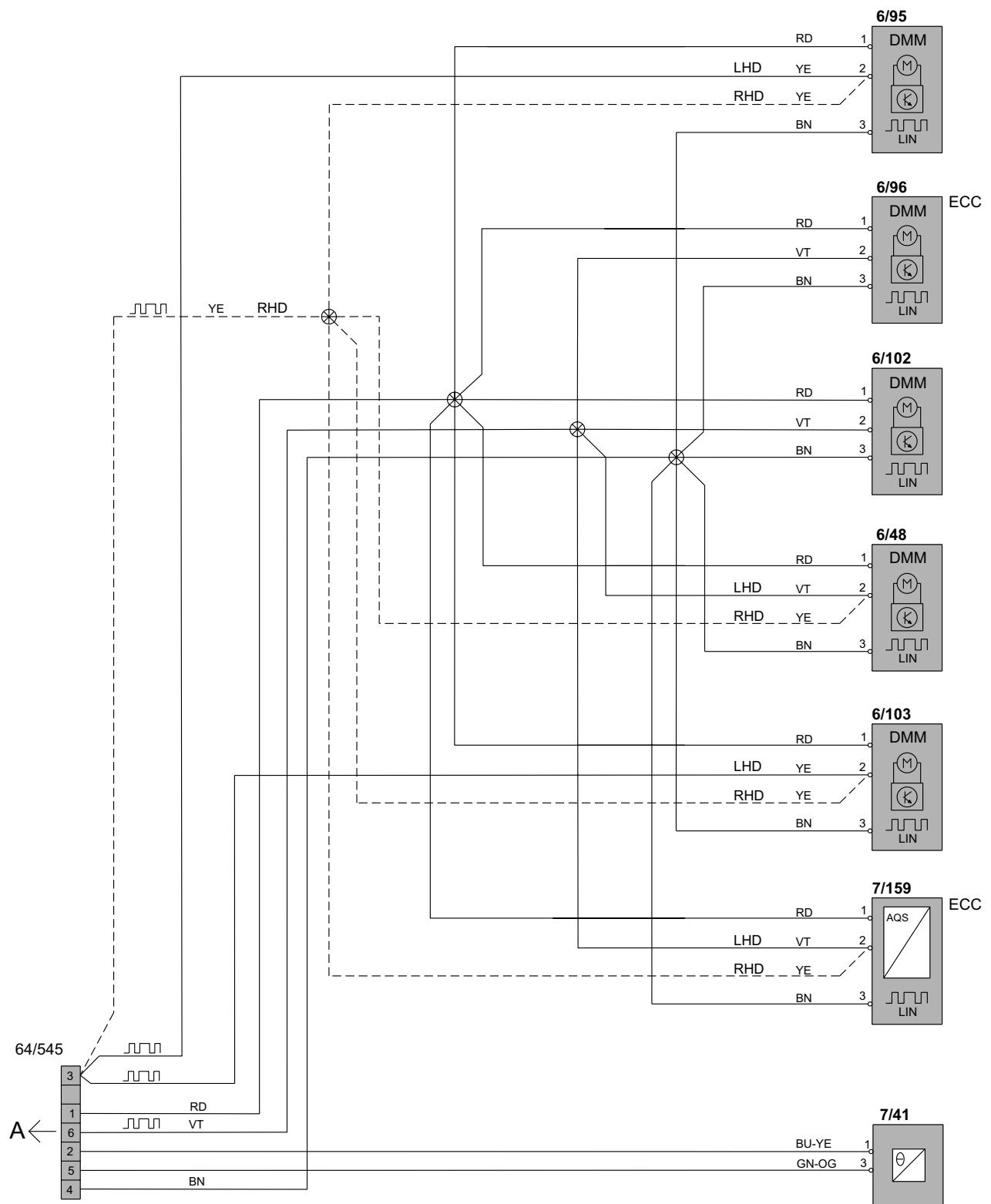
Group 87 Climate controls

Climate control system 1:2



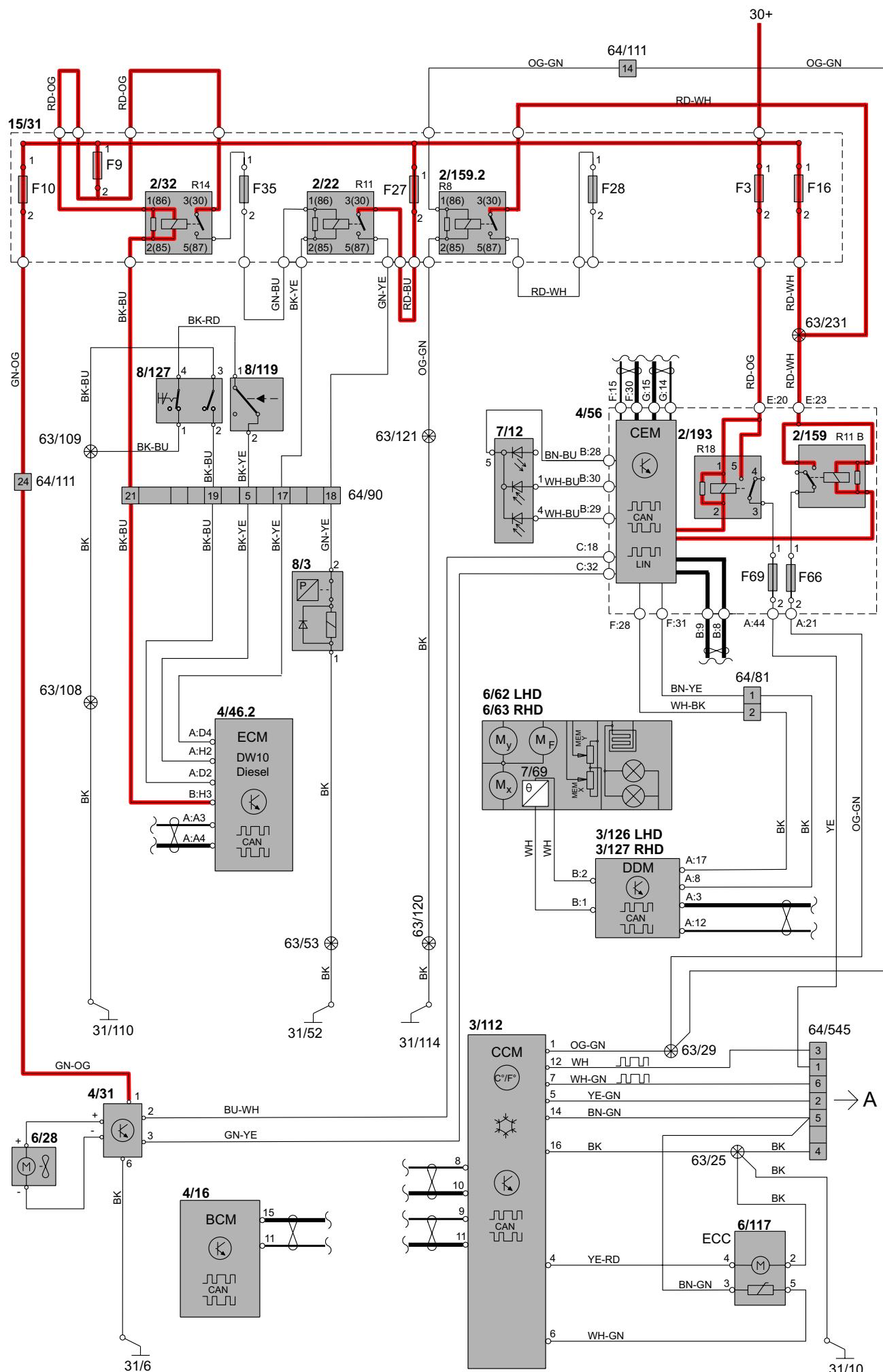
Group 87 Climate controls

Climate control system 2:2

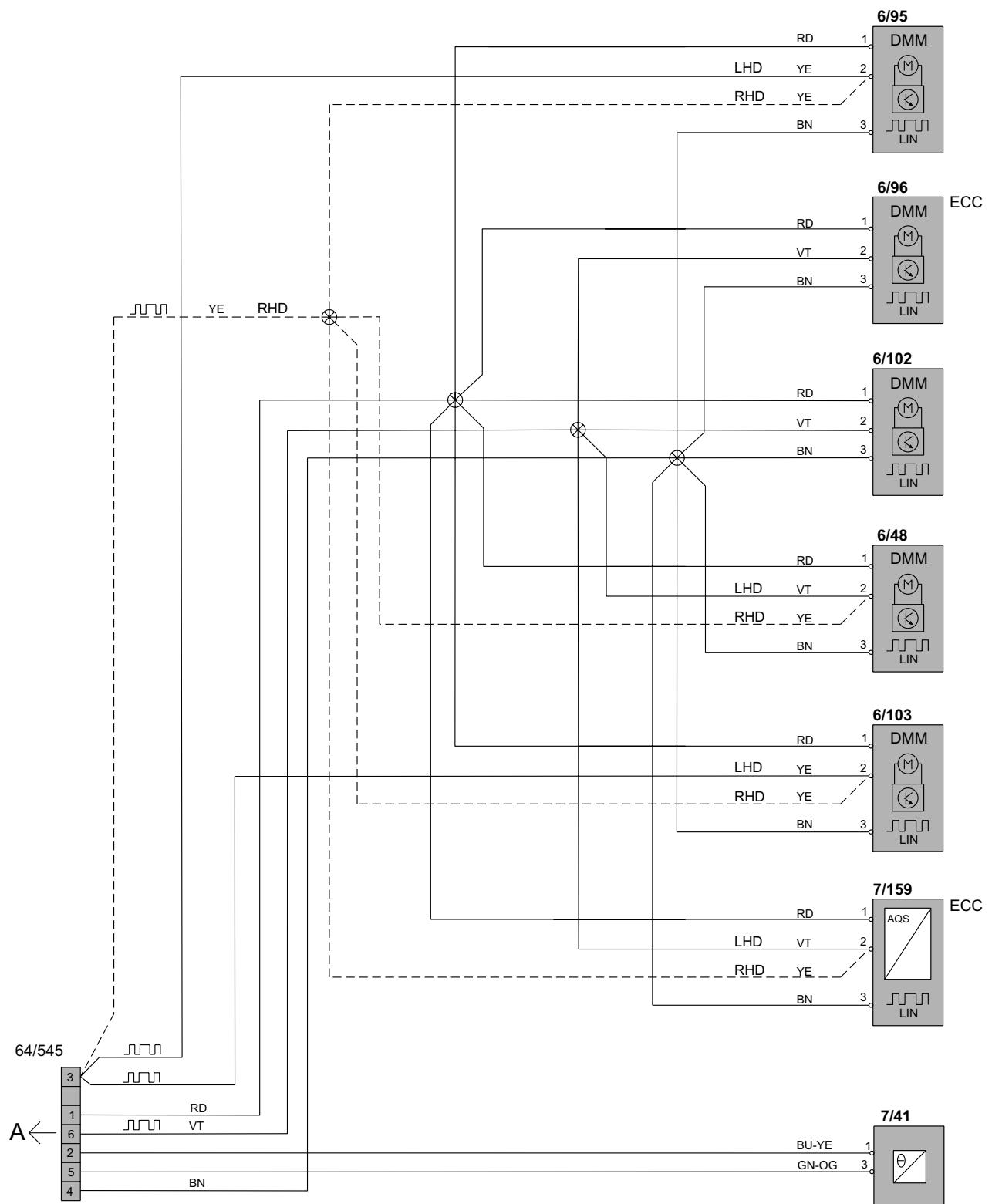


Group 87 Climate controls

Climate control system Diesel 1:2

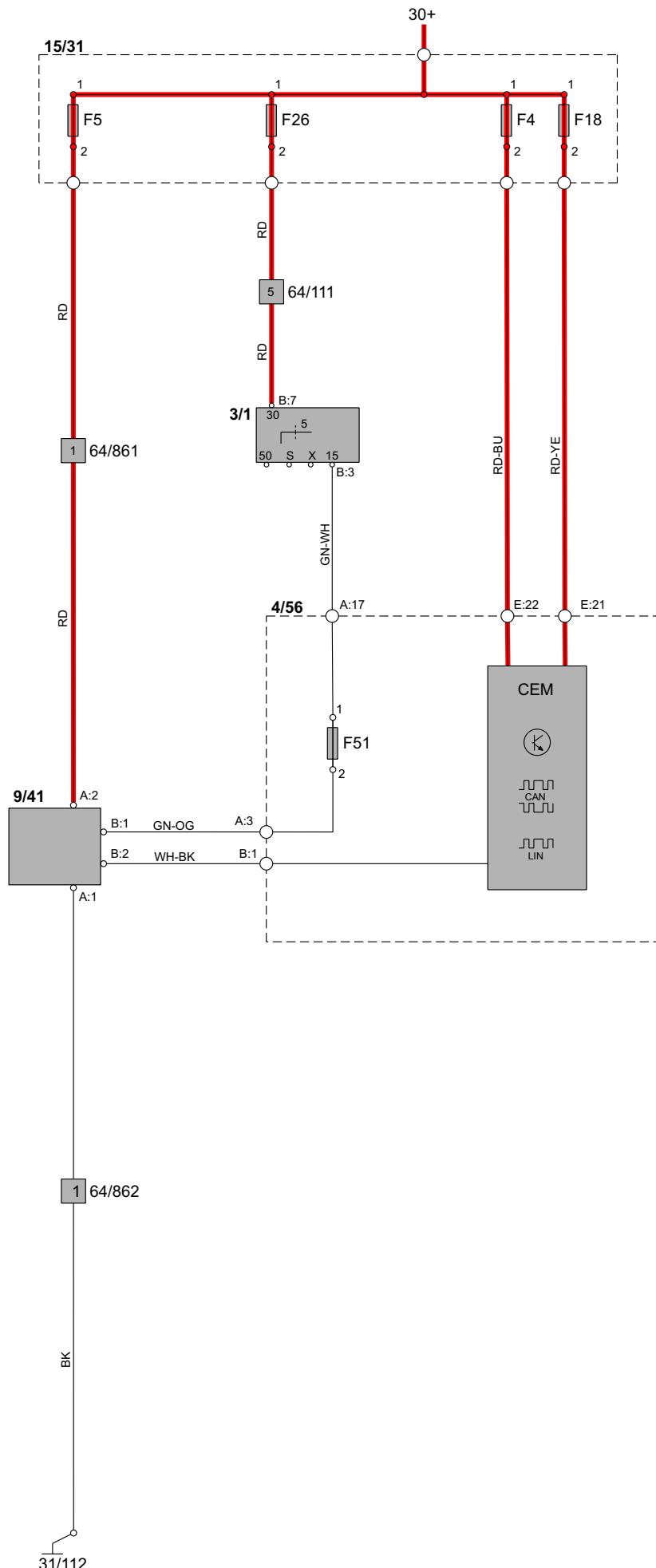


Group 87 Climate controls
Climate control system Diesel 2:2



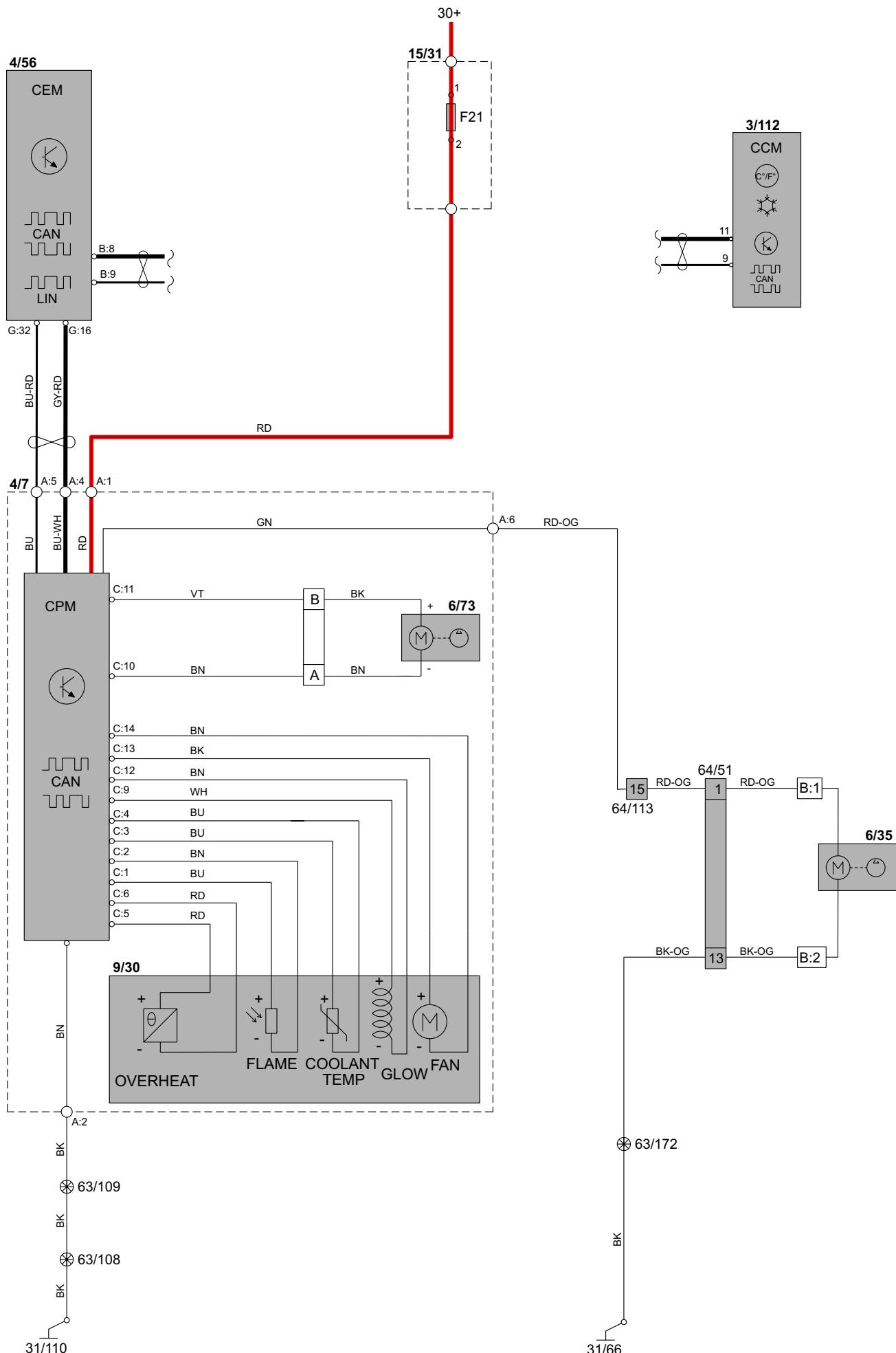
Group 87 Climate controls

Climate control system PTC element



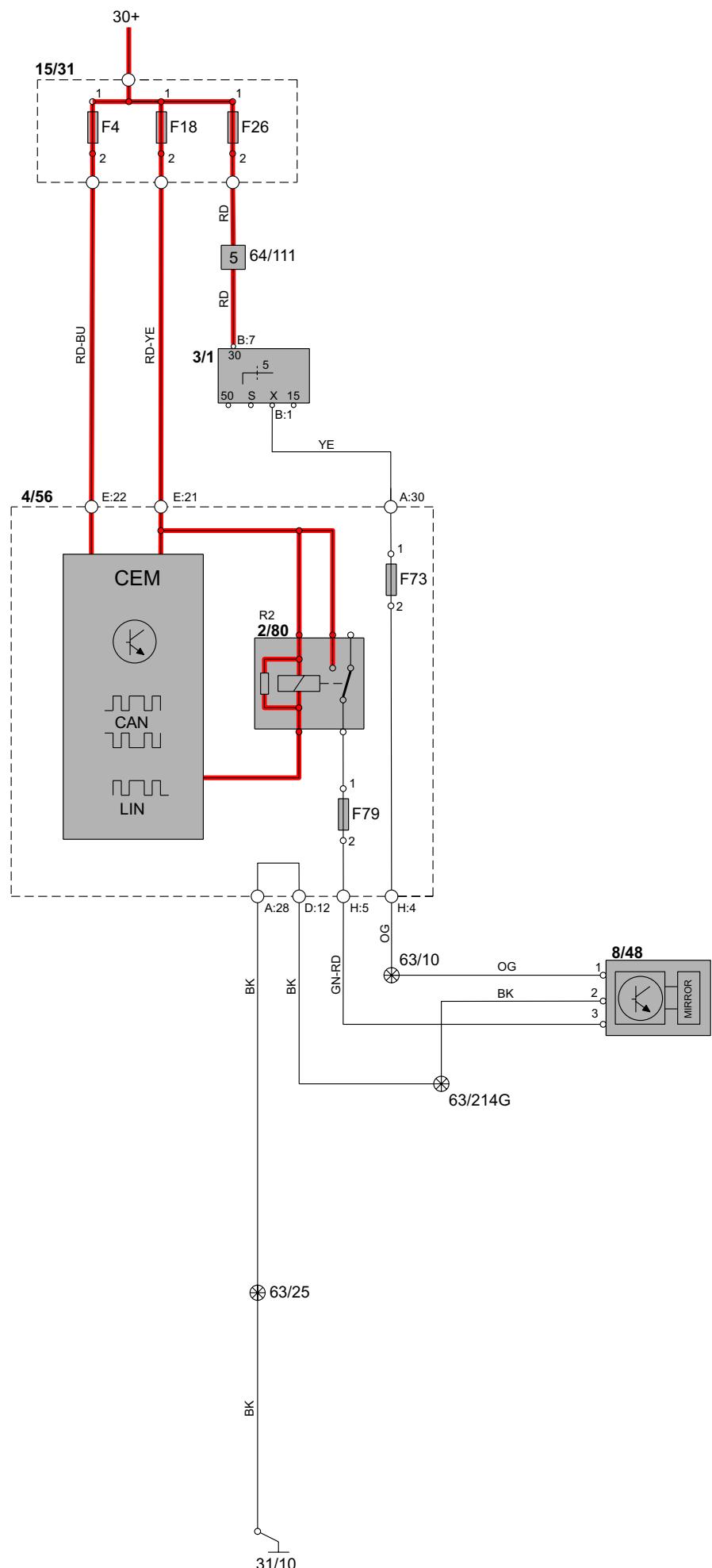
Group 87 Climate controls

Parking heater, auxiliary heater



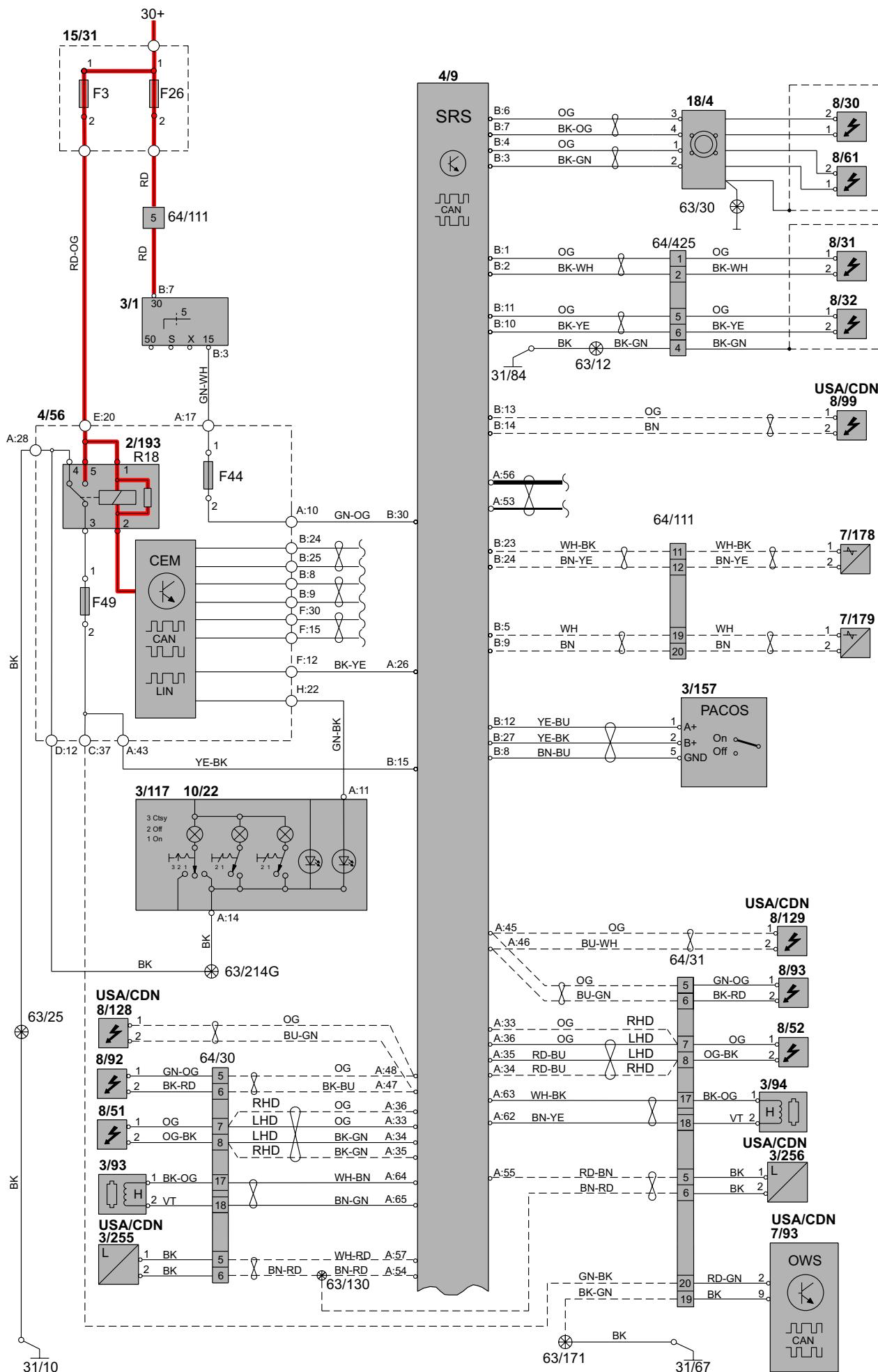
Group 88 Internal equipment

Auto-dimming rear-view mirror



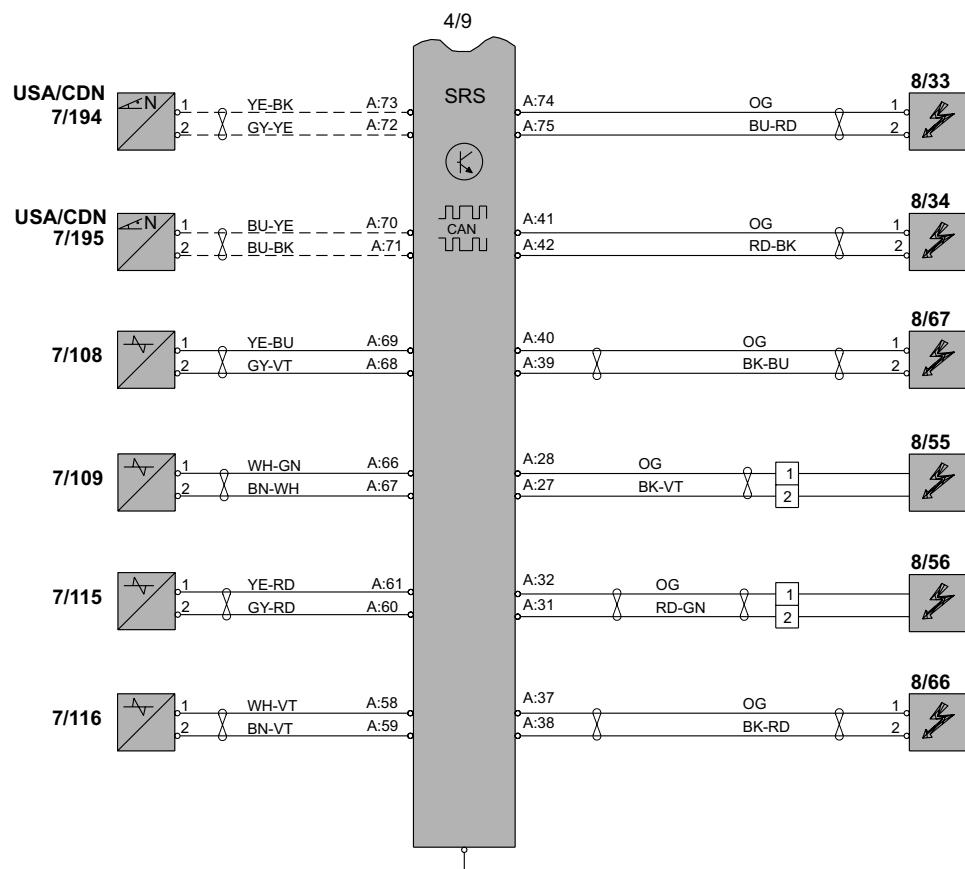
Group 88 Internal equipment

Supplemental Restraint System (SRS) 1:2



Group 88 Internal equipment

Supplemental Restraint System (SRS) 2:2



Connectors

64/18 - 64/25G

64/18

2-pin white

No.	Harness Floor		Harness Radio receiver		
1	16/16:1	Window antenna amplifier	BK	16/49A:1	Traffic Message Channel Module (TMC)
2	16/16:2	Window antenna amplifier	BK	16/94A:2	AM/FM Tuner Module (AFM)

64/25G

10-pin grey

No.	Harness Dashboard			Harness Tunnel		
1	4/56A:23	Central Electronic Module (CEM)	GY	9/1:1	Front 12V outlet	GY
2	63/25	Branching point	BK	63/86	Branching point	BK
3	63/15	Branching point	OG-BU	3/95:1	Spin control switch	OG-BU
4	3/112:2	Climate Control Module (CCM)	YE-RD	3/95:3	Spin control switch	YE-RD
5	3/112:3	Climate Control Module (CCM)	YE-GN	3/95:2	Spin control switch	YE-GN
6	-		-	-		-
7	-		-	-		-
8	-		-	-		-
9	-		-	-		-
10	-		-	-		-

Connectors

64/30:1-14

64/30 20-pin black

No.	Harness Floor			Harness Driver seat		
1	63/172 63/171	Branching point Branching point, RHD	BK	9/12A:1	Seat Heater Module (SHM), driver's side	BK
2	4/56C:43	Central Electronic Module (CEM)	GN-BK	9/12A:4	Seat Heater Module (SHM), driver's side	RD
3	-		-	-		-
4	64/112:7 64/112:6	Connector Connector, RHD	WH	9/12A:2	Seat Heater Module (SHM), driver's side	BU
5	4/9A:48	Supplemental Restraint Sys- tem Module (SRS)	OG	8/92:1	Lap belt tensioner, driver	GN-OG
	4/9A:57	Control module, Supplemental Restraint System (SRS), USA/CDN	WH-RD	3/255:1	Position sensor driver seat, USA/CDN	BK
6	4/9A:47	Supplemental Restraint Sys- tem Module (SRS)	BK-BU	8/92:2	Lap belt tensioner, driver	BK-RD
	63/130	Branching point, USA/CDN	BN-RD	3/255:2	Position sensor driver seat, USA/CDN	BK
7	4/9A:33	Supplemental Restraint Sys- tem Module (SRS)	OG	8/51:1	Igniter side airbag, driver's side	OG
	4/9A:36	Control module, Supplemental Restraint System (SRS), RHD				
8	4/9A:34	Supplemental Restraint Sys- tem Module (SRS)	BK-GN	8/51:2	Igniter side airbag, driver's side	OG-BK
	4/9A:35	Control module, Supplemental Restraint System (SRS), RHD				
9	-		-	-		-
10	-		-	-		-
11	63/221	Branching point	BU-RD	4/52B:3	Power Seat Module (PSM)	GN
12	63/220	Branching point	GY-RD	4/52B:4	Power Seat Module (PSM)	WH
13	-		-	-		-
14	63/173	Branching point	OG-BU	3/26:11 3/26:7 4/52B:1 4/52B:6	Switch unit, power driver's seat Switch unit, power driver's seat Power Seat Module (PSM), memory Power Seat Module (PSM), memory RHD	RD-GN

continues

Connectors

64/30:15-20 - 64/31:1-5

64/30

20-pin black

No.	Harness Floor			Harness Driver seat		
15	4/56C:30	Central Electronic Module (CEM)	OG-YE	3/26:2 3/26:5 4/52A:1 4/52A:7	Switch unit, power driver's seat Control unit, power driver's seat RHD Power Seat Module (PSM), memory Power Seat Module (PSM), memory RHD	RD-BU
16	63/172 63/171	Branching point Branching point, RHD	BK	3/26:3 3/26:8 4/52A:7 4/52B:6 4/52A:1 4/52B:2	Switch unit, power driver's seat Control unit, power driver's seat RHD Power Seat Module (PSM), memory Power Seat Module (PSM), memory Power Seat Module (PSM), memory RHD Power Seat Module (PSM), memory RHD	BK
17	4/9A:64	Supplemental Restraint System Module (SRS)	WH-BN	3/93:1	Contact belt buckle, driver's seat	BK-OG
18	4/9A:65	Supplemental Restraint System Module (SRS)	BN-GN	3/93:2	Contact belt buckle, driver's seat	VT
19	-		-	-		-
20	-		-	-		-

64/31

20-pin black

No.	Harness Floor			Harness Passenger seat		
1	63/171 63/172	Branching point Branching point, RHD	BK	9/13A:1	Seat Heater Module (SHM), passenger side	BK
2	4/56C:42	Central Electronic Module (CEM)	GN-YE	9/13A:4	Seat Heater Module (SHM), passenger side	RD
3	-		-	-		-
4	64/112:6 64/112:7	Connector Connector, RHD	WH-GN	9/13A:2	Seat Heater Module (SHM), passenger side	BU
5	4/9A:55 4/9A:45	Control module, Supplemental Restraint System (SRS), USA/CDN Supplemental Restraint System Module (SRS), EU/OS	RD-BN OG	3/256:1	Position sensor passenger seat, USA/CDN	BK

continues

Connectors

64/31:6-20

64/31

20-pin black

No.	Harness Floor			Harness Passenger seat		
6	63/130 4/9A:46	Branching point Supplemental Restraint System Module (SRS)	BN-RD GN-BN	3/256:2	Position sensor passenger seat, USA/CDN	BK
7	4/9A:36 4/9A:33	Supplemental Restraint System Module (SRS) Control module, Supplemental Restraint System (SRS), RHD	OG	8/52:1	Igniter side airbag, passenger side	OG
8	4/9A:35 4/9A:34	Supplemental Restraint System Module (SRS) Control module, Supplemental Restraint System (SRS), RHD	RD-BU	8/52:2	Igniter side airbag, passenger side	OG-BK
9	4/9A:51	Supplemental Restraint System Module (SRS)	BU-YE	7/93:1	Occupant Weight Sensor (OWS), USA/CDN	GN
10	4/9A:52	Supplemental Restraint System Module (SRS)	GY-BK	7/93:10	Occupant Weight Sensor (OWS), USA/CDN	WH
11	4/56F:17	Central Electronic Module (CEM)	YE-RD	3/46:1	Seat contact, passenger seat	WH
12	4/56F:13	Central Electronic Module (CEM)	BN-RD	3/46:2	Seat contact, passenger seat	WH
13	-	-	-	-	-	-
14	63/173	Branching point	OG-BU	3/27:7 3/27:11	Switch unit, power passenger seat Switch unit, power passenger seat, RHD	RD-GN
15	4/56C:29	Central Electronic Module (CEM)	OG-YE	3/27:5 3/27:2	Switch unit, power passenger seat Switch unit, power passenger seat, RHD	RD-BU
16	63/171 63/172	Branching point Branching point, RHD	BK	3/27:8 3/27:3	Switch unit, power passenger seat Switch unit, power passenger seat, RHD	BK
17	4/9A:63	Supplemental Restraint System Module (SRS)	WH-BK	3/94:1	Contact belt buckle, passenger seat	BK-OG
18	4/9A:62	Supplemental Restraint System Module (SRS)	BN-YE	3/94:2	Contact belt buckle, passenger seat	VT
19	63/171	Branching point	BK-GN	7/93:9	Occupant Weight Sensor (OWS)	BK
20	4/56C:37	Central Electronic Module (CEM)	GN-BK	7/93:2	Occupant Weight Sensor (OWS)	RD-GN

Connectors

64/34 - 64/41

64/34

1-pin blue

No.	Harness Floor		Harness Antenna GPS	
1	16/139:1	Global Positioning System Module (GPS)	BK	16/47:1 GPS antenna RTI

64/40

1-pin violet

No.	Harness Dashboard		Harness Floor	
1	16/60C:1	Phone Module (PHM)	BK	16/64:1 Antenna, cellular phone

64/41

16-pin black

No.	Harness Driver door		Harness Floor	
1	16/4:2	Speaker, driver's door	BK	16/105B:1 Audio Module (AUD) GY-BK
2	3/74A:4	Lock unit, driver's door	BK	4/56F:19 Central Electronic Module (CEM) BK-YE
3	-	-	-	-
4	3/126A:3	Driver's Door Module (DDM)	WH	63/220 Branching point GY-RD
5	3/126A:12	Driver's Door Module (DDM)	BK	63/221 Branching point BU-RD
6	3/74B:1 3/74B:4	Lock unit, driver's door, LHD Lock unit, driver's door, RHD	BK	4/93A:2 Keyless Vehicle Module (KVM) BN-GN
7	3/74B:2 3/74B:3	Lock unit, driver's door, LHD Lock unit, driver's door, RHD	BK	4/93A:3 Keyless Vehicle Module (KVM) YE-GN
8	3/126A:18	Driver's Door Module (DDM)	BK	4/56C:31 Central Electronic Module (CEM) OG-YE
9	16/4:1	Speaker, driver's door	WH	16/105B:9 Audio Module (AUD) WH-BK
10	3/258:5	Contact, locking front left	WH	4/93D:20 Keyless Vehicle Module (KVM) WH-BK
11	3/258:4	Contact, locking front left	BK	4/93D:2 Keyless Vehicle Module (KVM) GY-BK
12	3/258:1	Contact, locking front left	BK	4/93A:15 Keyless Vehicle Module (KVM) BN-YE
13	3/258:3	Contact, locking front left	BK	4/93A:14 Keyless Vehicle Module (KVM) BN-WH
14	3/74B:2 3/74B:3	Lock unit, driver's door Lock unit, driver's door	BK	4/93D:11 Keyless Vehicle Module (KVM) BN
15	3/126A:13	Driver's Door Module (DDM)	BK	64/45:1 Connector WH-GN
16	3/126A:9	Driver's Door Module (DDM)	BK	31/115 Ground connection BK

Connectors

64/43

64/43 16-pin black

No.	Harness Passenger door			Harness Floor		
1	16/3:2	Speaker, passenger door	BK	16/105B:3	Audio Module (AUD)	GY-RD
2	3/75A:4	Lock unit, passenger door	BK	4/56F:18	Central Electronic Module (CEM)	BK-BU
3	-		-	-		-
4	3/127A:3	Passenger Door Module (PDM)	WH	63/232	Branching point	GY-RD
5	3/127A:12	Passenger Door Module (PDM), RHD	BK	63/233	Branching point	BU-RD
6	3/75B:4 3/75B:1	Lock unit, passenger door, LHD Lock unit, passenger door, RHD	BK	4/93A:5	Keyless Vehicle Module (KVM)	BN-GN
7	3/75B:3 3/75B:2	Lock unit, passenger door, LHD Lock unit, passenger door, RHD	BK	4/93A:4	Keyless Vehicle Module (KVM)	YE-GN
8	3/127A:18	Passenger Door Module (PDM)	BK	4/56C:24	Central Electronic Module (CEM)	OG-YE
9	16/3:1	Speaker, passenger door	WH	16/105B:11	Audio Module (AUD)	WH-RD
10	3/259:5	Contact, locking front right	WH	4/93D:22	Keyless Vehicle Module (KVM)	WH-BK
11	3/259:4	Contact, locking front right	BK	4/93D:4	Keyless Vehicle Module (KVM)	GY-BK
12	3/259:1	Contact, locking front right	BK	4/93D:9	Keyless Vehicle Module (KVM)	BN-YE
13	3/259:3	Contact, locking front right	BK	4/93D:8	Keyless Vehicle Module (KVM)	BN-WH
14	3/75B:2 3/75B:3	Lock unit, passenger door, LHD Lock unit, passenger door, RHD	BK	4/93D:10	Keyless Vehicle Module (KVM)	BN
15	3/127A:13	Passenger Door Module (PDM)	BK	64/47:1	Connector	WH-GN
16	3/127A:9	Passenger Door Module (PDM)	BK	31/116	Ground connection	BK

Connectors

64/45

64/45 19-pin black

No.	Harness Rear door, left			Harness Floor		
1	3/128:6	Left Rear Door Module (LDM)	BK	64/41:15	Connector	WH-GN
2	6/117:4	Interior temperature sensor	BK	4/56F:21	Central Electronic Module (CEM)	BK-OG
3	-		-	-		-
4	-		-	-		-
5	-		-	-		-
6	-		-	-		-
7	-		-	-		-
8	-		-	-		-
9	3/128:18	Left Rear Door Module (LDM)	BK	4/56C:21	Central Electronic Module (CEM)	OG-BU
10	63/192A	Branching point	BK	63/172	Branching point	BK
11	3/260:1	Contact, locking, rear left	BK	4/93A:21	Keyless Vehicle Module (KVM)	BN-GN
12	3/260:3	Contact, locking, rear left	BK	4/93A:16	Keyless Vehicle Module (KVM)	BN-YE
13	3/76:3	Lock unit, left rear door	BK	4/93D:13	Keyless Vehicle Module (KVM)	BN-WH
14	3/76:1	Lock unit, left rear door	BK	4/93B:2	Keyless Vehicle Module (KVM)	BN-BU
15	3/76:2	Lock unit, left rear door	BK	4/93B:1	Keyless Vehicle Module (KVM)	YE-BU
16	3/260:4	Contact, locking, rear left	WH	4/93D:21	Keyless Vehicle Module (KVM)	WH-GN
17	3/260:5	Contact, locking, rear left	BK	4/93D:3	Keyless Vehicle Module (KVM)	GY-OG
18	16/6:2	Speaker, left rear door	BK	16/105B:4	Audio Module (AUD)	GY-WH
19	16/6:1	Speaker, left rear door	WH	16/105B:12	Audio Module (AUD)	WH-VT

Connectors

64/47 - 64/48 S40

64/47 19-pin black

No.	Harness Rear door, right			Harness Floor		
1	3/129:6	Right Rear Door Module (RDM)	BK	64/43:15	Connector	WH-GN
2	6/116:4	Motor child safety lock, rear door right	BK	4/56F:20	Central Electronic Module (CEM)	BK-BU
3	-		-	-		-
4	-		-	-		-
5	-		-	-		-
6	-		-	-		-
7	-		-	-		-
8	-		-	-		-
9	3/129:18	Right Rear Door Module (RDM)	BK	4/56C:27	Central Electronic Module (CEM)	OG-WH
10	63/192	Branching point	BK	63/171	Branching point	BK
11	3/261:1	Contact, locking rear right	BK	4/93D:17	Keyless Vehicle Module (KVM)	BN-RD
12	3/261:3	Contact, locking rear right	BK	4/93D:16	Keyless Vehicle Module (KVM)	BN-BU
13	3/77:2	Lock unit, right rear door	BK	4/93D:15	Keyless Vehicle Module (KVM)	BN-GN
14	3/77:4	Lock unit, right rear door	BK	4/93C:2	Keyless Vehicle Module (KVM)	BN
15	3/77:3	Lock unit, right rear door	BK	4/93C:1	Keyless Vehicle Module (KVM)	YE
16	3/261:4	Contact, locking rear right	WH	4/93D:23	Keyless Vehicle Module (KVM)	WH-RD
17	3/261:5	Contact, locking rear right	BK	4/93D:5	Keyless Vehicle Module (KVM)	GY-RD
18	16/5:2	Speaker, right rear door	BK	16/105B:5	Audio Module (AUD)	GY
19	16/5:1	Speaker, right rear door	WH	16/105B:13	Audio Module (AUD)	WH

64/48 S40 8-pin grey

No.	Harness Trunk/Tailgate			Harness Floor		
1	63/196	Branching point	BK	63/172	Branching point	BK
2	-		-	-		-
3	-		-	-		-
4	3/78:1	Lock unit, trunk lid/tailgate	WH-GN	4/56C:8	Central Electronic Module (CEM)	WH-GN
5	10/3:2	License plate lighting	OG-BK	4/56C:13	Central Electronic Module (CEM)	OG-BK
6	3/78:4	Lock unit, trunk lid/tailgate	BK-BU	10/24:4	Cargo compartment lighting	BK-BU
7	10/3:1	License plate lighting	BK-YE	4/56F:22 4/93D:14	Central Electronic Module (CEM) Keyless Vehicle Module (KVM)	BK-YE
8	3/78:3	Lock unit, trunk lid/tailgate	BK-RD	4/56F:24	Central Electronic Module (CEM)	BK-RD

Connectors

64/48 V50 - 64/49

64/48 V50 14-pin grey

No.	Harness Trunk/Tailgate			Harness Floor		
1	63/196	Branching point	BK	63/172	Branching point	BK
2	10/19:1	Brake light extra	OG-YE	4/56C:7	Central Electronic Module (CEM)	OG-YE
3	6/32:1	Rear window wiper motor	GN-BU	4/56C:33	Central Electronic Module (CEM)	GN-BU
4	3/78:1	Lock unit, trunk lid/tailgate	WH-GN	4/56C:8	Central Electronic Module (CEM)	WH-GN
5	10/3:2	License plate lighting	OG-BK	4/56C:13	Central Electronic Module (CEM)	OG-BK
6	6/32:2	Rear window wiper motor	WH-RD	4/56C:34	Central Electronic Module (CEM)	WH-RD
7	16/141	Interference filter, rear window, left	GN-BU	64/113:6	Connector	GN-BU
8	3/78:3	Lock unit, trunk lid/tailgate	BK-RD	4/56F:24	Central Electronic Module (CEM)	BK-RD
9	-	-	-	-	-	-
10	10/3:1	License plate lighting	BK-YE	4/93D:14	Keyless Vehicle Module (KVM)	BK-YE
11	-	-	-	-	-	-
12	-	-	-	-	-	-
13	10/25:2	Ceiling light, cargo compartment	OG-BU	63/173	Branching point	OG-BU
14	-	-	-	-	-	-

64/49 2-pin grey

No.	Harness Floor			Harness Bumper, rear	
1	4/93E:14	Keyless Vehicle Module (KVM)	WH-BK	16/132:1	Antenna door lock cargo compartment
2	4/93E:15	Keyless Vehicle Module (KVM)	GY-BK	16/132.2	Antenna door lock cargo compartment

Connectors

64/50 - 64/51

64/50

12-pin black

No.	Harness Rear axle			Harness Floor		
1	4/82:1	Differential Electronic Module (DEM)	GN-RD	4/56C:39	Central Electronic Module (CEM)	GN-RD
2	4/82:2	Differential Electronic Module (DEM)	BK-RD	63/171	Branching point	BK-OG
3	63/225 64/50:6	Branching point Connector	BU-RD	4/56F:14	Central Electronic Module (CEM)	BU-RD
4	63/224 64/50:5	Branching point Connector	GY-RD	4/56F:16	Central Electronic Module (CEM)	GY-RD
5	63/224	Branching point	GY-RD	64/51:2	Connector	GY-RD
6	63/225	Branching point	BU-RD	64/51:6	Connector	BU-RD
7	7/120:1	Angle sensor, Bi-Xenon rear	BN	64/113:27	Connector	BN
8	7/120:4	Angle sensor, Bi-Xenon rear	WH	64/113:19	Connector	WH
9	7/120:5	Angle sensor, Bi-Xenon rear	YE	64/113:20	Connector	YE
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-

64/51

14-pin grey

No.	Harness Fuel tank			Harness Floor		
1	6/35B:1	Fuel pump, auxiliary heater	RD-OG	64/113:15	Connector	RD-OG
2	64/650:7	Connector	GY-RD	4/56F:16 64/50:5 64/112:5	Central Electronic Module (CEM) Connector Connector	GY-RD
3	6/33:2 6/33:3	Fuel pump Fuel pump, PZEV	WH-RD	4/56F:5	Central Electronic Module (CEM)	WH-RD
4	6/33:3	Fuel pump, AWD	WH-GN	4/56F:25	Central Electronic Module (CEM)	WH-GN
5	6/33:4 6/33:2	Fuel pump Fuel pump, PZEV	WH-BU	4/56F:7	Central Electronic Module (CEM)	WH-BU
6	64/650:6	Connector	BU-RD	4/56F:14 64/50:6 64/112:4	Central Electronic Module (CEM) Connector, AWD Connector	BU-RD
7	4/83:2 6/33:1 64/650:1	Control module fuel pump Fuel pump Connector	GN-WH	4/56C:16	Central Electronic Module (CEM)	GN-WH
8	4/83:3 6/33:5 63/33 64/650	Control module fuel pump, PZEV Fuel pump Fuel pump Connector	BK-OG	31/116 31/115	Ground connection, LHD Ground connection, RHD	BK-OG

continues

Connectors

64/51 - 64/79V

64/51 14-pin grey

No.	Harness Fuel tank			Harness Floor		
9	6/67:3	Pump, fuel leakage control	YE-VT	64/113:10	Connector	YE-VT
10	6/67:2	Pump, fuel leakage control	WH-VT	64/113:11	Connector	WH-VT
11	6/67:1	Pump, fuel leakage control	BK-WH	64/113:12	Connector	BK-WH
12	6/67:4	Pump, fuel leakage control	GN-BU	64/113:13	Connector	GN-BU
13	6/35B:2	Fuel pump, auxiliary heater	BK-OG	63/172	Branching point	BK-OG
14	4/83:1	Control module fuel pump	WH-BK	64/113:7	Connector	WH-BK

64/53 6-pin grey

No.	Harness Bumper, rear			Harness Parking assistance		
1	4/86:11	Control module, Parking Assistance Module (PAM)	YE-RD	63/415	Branching point	YE-RD
2	4/86:4	Control module, Parking Assistance Module (PAM)	WH	7/134:2	Sensor parking assistance 4	WH
3	4/86:2	Control module, Parking Assistance Module (PAM)	WH-RD	7/133:2	Sensor parking assistance 3	WH-RD
4	4/86:3	Control module, Parking Assistance Module (PAM)	WH-BU	7/132:2	Sensor parking assistance 2	WH-BU
5	4/86:5	Control module, Parking Assistance Module (PAM)	WH-GN	7/131:2	Sensor parking assistance 1	WH-GN
6	4/86:8	Control module, Parking Assistance Module (PAM)	BN-RD	63/416	Connector	BN-RD

64/79V Diesel 6-pin grey

No.	Harness Engine compartment			Harness Washer system		
1	4/56:8	Central Electronic Module (CEM)	WH-BK	6/2:1	Washer pump	WH-BK
2	2/182:5	Relay, headlight washer motor	GN-YE	6/104:1	Pump, high pressure headlight washer	GN-YE
3	63/109	Branching point	BK-BU	7/5:1	Washer fluid level sensor	BK-BU
4	4/56:12	Central Electronic Module (CEM)	YE-BK	6/2:2	Washer pump	YE-BK
5	63/108	Branching point	BK	6/104:2	Pump, high pressure headlight washer	BK
6	4/56G:28	Central Electronic Module (CEM)	BK-OG	7/5:2	Washer fluid level sensor	BK-OG

Connectors

64/81 - 64/90:1-11

64/81

2-pin black

No.	Harness Floor			Harness Front door		
1	4/56F:31 Central Electronic Module (CEM)	BN-YE	3/126:8	Driver's Door Module (DDM), LHD	BK	
			3/127:8	Passenger Door Module (PDM), RHD		
2	4/56F:28 Central Electronic Module (CEM)	WH-BK	3/126:17	Driver's Door Module (DDM), LHD	BK	
			3/127:17	Passenger Door Module (PDM), RHD		

64/90

41-pin black

No.	Harness Engine			Harness Engine compartment		
1	4/46B:45 Engine Control Module (ECM) 4/46C:30 Control module engine (ECM), 4-CYL 4/46A:A3 Engine Control Module (ECM), Diesel 63/227 Branching point	BU-RD	63/223	Branching point	BU-RD	
2	4/46B:E1 Engine Control Module (ECM), Diesel	BK-YE	4/109:8	Control module glow plug, Diesel	BK-YE	
3	4/28A:11 Transmission Control Module (TCM) 4/28:9 Transmission Control Module (TCM), 4-CYL	GN-YE	4/56E:1 15/31	Central Electronic Module (CEM) Distribution box in engine compartment, resistor	GN-YE	
4	4/46B:8 Engine Control Module (ECM) 4/46C:4 Control module engine (ECM), 4CYL 4/46A:D1 Engine Control Module (ECM), Diesel	BK-RD	2/35:2	Relay, starter motor	BK-RD	
5	4/46B:28 Engine Control Module (ECM) 4/46C:14 Control module engine (ECM), 4-CYL 4/46A:H2 Engine Control Module (ECM), Diesel	BU BK-OG BK-YE	8/119:2 8/119:2	Pressure monitor, climate control system Pressure monitor climate control system, Diesel	BU BK-YE	
6	9/38:1 Heated fuel filter, Diesel	GN-RD	2/142:5	Relay, pre-heater, fuel filter	GN-RD	
7	4/46A:E2 Engine Control Module (ECM), Diesel	WH-GN	4/56G:30	Central Electronic Module (CEM), Diesel	WH-GN	
8	4/46B:41 Engine Control Module (ECM) 4/46c:39 Control module engine (ECM), 4-CYL 4/46A:E4 Engine Control Module (ECM), Diesel	GN-WH	4/56E:40	Central Electronic Module (CEM)	GN-WH	
9	-	-	-	-	-	
10	3/10:2 Contact reversing light, MAN. 3/10:2 Contact reversing light, MAN Diesel	GN-YE GN-WH	4/56E:14	Central Electronic Module (CEM)	GN-BU	
11	6/25A:1 Starter motor 64/120:1 Connector, 4-CYL & Diesel	GY	2/35:5	Relay, starter motor	GY	

continues

Connectors

64/90:12-26

64/90 41-pin black

No.	Harness Engine			Harness Engine compartment		
12	8/77:1 Control valve, fuel volume, Diesel 9/32:1 PTC resistor oil trap, Diesel 63/103 Branching point 63/95 Branching point, 4-CYL	GN-BU GN-RD	F34:2	Fuse		GN-BU
13	4/46B:G4 Engine Control Module (ECM), Diesel	RD	F30:2	Fuse, Diesel		RD
14	63/54 Branching point	GN-BU	F35:2	Fuse		GN-BU
15	4/46B:58 4/46C:41 Control module engine (ECM), 4CYL 4/46A:A4 Engine Control Module (ECM), Diesel 63/226 Branching point, 4-CYL	GY-RD	63/222	Branching point		GY-RD
16	4/46B:D4 Engine Control Module (ECM), Diesel	WH-BU	4/109:3	Control module glow plug, Diesel		WH-BU
17	4/46B:10 4/46C:1 Control module engine (ECM), 4-CYL 4/46A:D4 Engine Control Module (ECM), Diesel	BK-YE	2/22:2	Relay, climate control system		BK-YE
18	8/3:1 Electromagnetic clutch climate control system, Gasoline 8/3:2 Electromagnetic clutch, climate control system, Diesel	GN-YE	2/22:5	Relay, climate control system		GN-YE
19	4/46B:51 Engine Control Module (ECM) 4/46C:13 Control module engine (ECM), 4-CYL 4/46A:D2 Engine Control Module (ECM), Diesel	WH-RD WH-VT BK-BU	7/8:2 8/127:2	Pressure sensor, climate control system Pressure switch, climate control system, Diesel		WH-VT BK-BU
20	6/26A:3 Alternator	RD	F31:2	Fuse, Diesel		RD
21	4/46B:16 4/46C:35 Control module engine (ECM), 4-CYL 4/46B:H3 Engine Control Module (ECM), Diesel	BK-BU	2/32:2	Main relay, engine management system		BK-BU
22	4/28A:16 Transmission Control Module (TCM) 4/28:7 Transmission Control Module (TCM), 4-CYL	RD-YE	64/111:3	Connector		RD-YE
23	63/56 4/28:14 Branching point Transmission Control Module (TCM) 4/46B:54 Engine Control Module (ECM)	RD	F23:2	Fuse		RD
24	4/46B:20 Engine Control Module (ECM) 64/600:1 Connector, Diesel	WH-BK GN-OG	64/113:7 4/109:1	Connector Control module glow plug, Diesel		WH-BK GN-OG
25	4/46 B:33 64/600:2 Engine Control Module (ECM) Connector, Diesel	BN-WH GN-OG	64/113:12 4/109:2	Connector Control module glow plug, Diesel		BK-WH GN-OG
26	4/46B:23 64/600:3 Engine Control Module (ECM) Connector, Diesel	WH-VT GN-OG	64/113:11 4/109:6	Connector Control module glow plug, Diesel		WH-VT GN-OG
continues						

Connectors

64/90:27-41

64/90 41-pin black

No.	Harness Engine			Harness Engine compartment		
27	4/46B:46 64/600:4	Engine Control Module (ECM) Connector, Diesel	YE-VT GN-OG	64/113:10 4/109:7	Connector Control module glow plug, Diesel	YE-VT GN-OG
28	4/46B:26 4/46C:32 4/46A:F3	Engine Control Module (ECM) Control module engine (ECM), 4-CYL Engine Control Module (ECM), Diesel	GY	7/51:5	Accelerator pedal sensor	GY
29	4/46B:31 4/46C:28	Engine Control Module (ECM) Control module engine (ECM), 4-CYL	YE-RD	7/8:3	Pressure sensor, climate control system	YE-RD
30	4/28A:13 4/28:10	Transmission Control Module (TCM) Transmission Control Module (TCM), 4-CYL	GY-OG	64/111:1	Connector	GY-OG
31	4/46B:17 4/28:11	Engine Control Module (ECM) Transmission Control Module (TCM), 4-CYL	GN-BU GY-OG	2/35:1	Relay, starter motor	GN-BU
32	4/46B:47 63/63	Engine Control Module (ECM) Branching point, 4-CYL	BN-RD	7/8:1	Pressure sensor, climate control system	BN-RD
33	4/28A:7 4/28:1	Transmission Control Module (TCM) Transmission Control Module (TCM), 4-CYL	WH-RD RD	64/111:2	Connector	RD
34	4/46B:7 4/46C:12 4/46A:B2	Engine Control Module (ECM) Control module engine (ECM), 4-CYL Engine Control Module (ECM), Diesel	WH-RD	4/71:4	Cooling fan control module	WH
35	7/82:1	Heated oxygen sensor, Turbo	GN-YE	63/13	Branching point, Turbo	GN-YE
36	6/26A:3	Alternator	WH-RD	15/31	Distribution box in engine compartment, diode	WH-RD
37	4/46B:30 4/46C:46 4/46A:C3	Engine Control Module (ECM) Control module engine (ECM), 4-CYL Engine Control Module (ECM), Diesel	GN-YE GN-BU	4/56E:10 4/56E:10	Central Electronic Module (CEM) Central Electronic Module (CEM), Diesel	GN-GY GN-BU
38	-		-	-		-
39	7/15:1 8/121:1 7/82:1 63/98	Heated oxygen sensor, 4-CYL Valve coolant, Diesel Heated oxygen sensor, rear, 4-CYL Branching point	GN-RD GN-BK GN-YE	F32:2	Fuse	GN-YE
40	63/61 7/15:3	Branching point Heated oxygen sensor, front, Turbo	GN-YE	F33:2 63/13	Fuse Branching point, Turbo	GN-YE
41	63/65 4/46C:34 63/65	Branching point Control module engine (ECM), 4-CYL Branching point, Diesel	GN-BU GN-OG	F36:2	Fuse	GN-BU

Connectors

64/111

64/111

27-pin grey

No.	Harness Engine compartment		Harness Dashboard		
1	64/90:30	Connector	GY-OG	3/156:3	Gear Selector Module (GSM)
2	64/90:33	Connector	RD	3/156:2	Gear Selector Module (GSM)
3	64/90:22	Connector	RD-YE	3/156:1	Gear Selector Module (GSM)
4	-		-	-	-
5	F26:2	Fuse	RD	3/1B:7	Start Control Module (SCU)
6	-		-	-	-
7	7/51:4	Accelerator pedal sensor	BK-YE	63/12	Branching point
8	10/1:6 10/2:6	Lamp housing, front left Lamp housing, front right	BU	3/111:10	Switch unit, lights
9	63/124	Branching point	BK	63/6	Branching point
10	F28:2	Fuse	OG-YE	16/108:1	Multimedia Module (MMM)
11	7/178:1	Front impact sensor, right	WH-BK	4/9B:23	Supplemental Restraint System Module (SRS)
12	7/178:2	Front impact sensor, right	BN-YE	4/9B:24	Supplemental Restraint System Module (SRS)
13	-		-	-	-
14	2/159.2:1	Relay, infotainment, extra	OG-GN	63/29	Branching point
15	-		-	-	-
16	-		-	-	-
17	-		-	-	-
18	10/1:12 10/2:12	Lamp housing, front left Lamp housing, front right	OG	63/139	Branching point
19	7/179:1	Front impact sensor, left	WH	4/9B:5	Supplemental Restraint System Module (SRS)
20	7/179:2	Front impact sensor, left	BN	4/9B:9	Supplemental Restraint System Module (SRS)
21	-		-	-	-
22	7/179:1	Front impact sensor, left	WH-BK	4/9B:23	Supplemental Restraint System Module (SRS)
23	-		-	-	-
24	F10:2	Fuse	GN-OG	6/28:1	Motor, passenger compartment fan
25	F10:2	Fuse	GN-OG	4/31:1	Fan control module
26	-		-	-	-
27	-		-	-	-

Connectors

64/112

64/112

16-pin grey

No.	Harness Floor		Harness Dashboard		
1	16/105B:10	Audio Module (AUD)	WH-RD	16/26:1	Speaker, dashboard middle
2	16/105B:2	Audio Module (AUD)	GY-RD	16/26:2	Speaker, dashboard middle
3	-		-	-	-
4	64/51:6	Connector	BU-RD	3/254C:8	Steering Wheel Module (SWM)
5	64/51:2	Connector, RHD	GY-RD	3/254C:9	Steering Wheel Module (SWM)
6	64/31:4 64/30:4	Connector Connector, RHD	WH-GN WH	64/545:6	Connector, HVAC
7	64/30:4 64/31:4	Connector Connector, RHD	WH WH-GN	64/545:3	Connector, HVAC
8	4/93B:17	Keyless Vehicle Module (KVM)	RD-GN	63/88	Branching point
9	-		-	-	-
10	-		-	-	-
11	-		-	-	-
12	-		-	-	-
13	-		-	-	-
14	-		-	-	-
15	-		-	-	-
16	-		-	-	-

Connectors

64/113

64/113

29-pin black

No.	Harness Floor		Harness Engine compartment		
1	64/816:1	Connector	WH	4/16:36	Brake Control Module (BCM)
2	64/816:2	Connector	BN	4/16:37	Brake Control Module (BCM)
3	64/817:1	Connector	YE-GN	4/16:43	Brake Control Module (BCM)
4	64/817:2	Connector	WH-GN	4/16:42	Brake Control Module (BCM)
5	-		-	-	-
6	64/48:7 16/141	Connector, V50 Interference filter, rear window left, S40	GN-BU	2/82:5	Relay, heated rear window
7	64/51:14	Connector	WH-BK	64/90:24	Connector
8	7/164:5	Body Sensor Cluster (BSC)	BN-RD	4/16:5	Brake Control Module (BCM)
9	7/164:3	Body Sensor Cluster (BSC)	YE-RD	4/16:7	Brake Control Module (BCM)
10	64/51:9	Connector	YE-VT	64/90:27	Connector
11	64/51:10	Connector	WH-VT	64/90:26	Connector
12	64/51:11	Connector	BK-WH	64/90:25	Connector
13	64/51:12	Connector	GN-BU	2/22:1 F35:2	Relay, climate control system Fuse
14	4/93B:20	Keyless Vehicle Module (KVM)	WH-RD	3/271:1	Contact, immobilizer, clutch pedal
15	64/51:1	Connector	RD-OG	4/7A:6	Combustion Preheater Module (CPM)
16	16/79:1	Subwoofer Module (SUB)	OG-GN	F22:2	Fuse
17	7/164:2	Body Sensor Cluster (BSC)	GY	4/16:29	Brake Control Module (BCM)
18	7/164:1	Body Sensor Cluster (BSC)	BU	4/16:25	Brake Control Module (BCM)
19	64/50:8	Connector	WH	4/112A:2	Control module, gas discharge lamp (GDL), master, left
20	64/50:9	Connector	YE	4/112:3 7/121:5	Control module, gas discharge lamp (GDL), master, left Angle sensor, Bi-Xenon front
21	64/50:7	Connector	BN	63/89	Branching point
22	-		-	-	-
23	-		-	-	-
24	4/110C:2	Trailer Module (TRM)	RD	F14:2	Fuse
25	4/110C:2	Trailer Module (TRM)	RD	F14:2	Fuse
26	-		-	-	-
27	64/50:7	Connector	BN	4/112:4 7/121:1	Control module, gas discharge lamp (GDL), master, left Angle sensor, Bi-Xenon front
28	-		-	-	-
29	-		-	-	-

Connectors

64/120 - 64/425

64/120

1-pin black

No.	Harness Engine		Harness Starter motor	
1	64/90:11	Connector	GY	6/25:1 Starter motor

64/179G

1-pin grey

No.	Harness Floor		Harness Microphone	
1	16/105B:16	Audio Module (AUD)	WH	16/98 Microphone, pigtail

64/322

5-pin green

No.	Harness Floor		Harness Shock absorbers, rear		
1	63/228	Branching point	GY-RD	63/421	Branching point
2	63/229	Branching point	BU-RD	63/422	Branching point
3	10/17A:1 10/17A:2	Lamp housing, rear right, S40 Lamp housing, rear right, V50	OG-BK	4/27B:3	Control module, Parking Assistance Module (PAM)
4	31/12	Ground connection	BK	63/420	Branching point
5	4/56:38	Central Electronic Module (CEM)	RD	4/27A:1	Control module, Parking Assistance Module (PAM)

64/425

6-pin yellow

No.	Harness Dashboard		Harness SRS Passenger side		
1	4/9B:1	Supplemental Restraint System Module (SRS)	OG	8/31:1	Airbag igniter, passenger side
2	4/9B:2	Supplemental Restraint System Module (SRS)	BK-WH	8/31:2	Airbag igniter, passenger side
3	-		-	-	-
4	63/12	Branching point	BK-GN	8/31:4 8/32:4	Airbag igniter, passenger side Igniter, airbag stage 2, passenger side
5	4/9B:11	Supplemental Restraint System Module (SRS)	OG	8/32:1	Igniter, airbag stage 2, passenger side
6	4/9B:10	Supplemental Restraint System Module (SRS)	BK-YE	8/32:2	Igniter, airbag stage 2, passenger side

Connectors

64/545 - 64/600

64/545 6-pin light grey

No.	Harness Dashboard			Harness Climate control system		
1	4/56A:44	Central Electronic Module (CEM)	YE	6/95:1 6/103:1 6/96:1 6/48:1 6/102:1 7/159:1	Damper Motor Module (DMM), left side§ Damper Motor Module (DMM), floor/ventilation Damper Motor Module (DMM), right-hand side Damper Motor Module (DMM), recirculation Damper Motor Module (DMM), defroster Air Quality Sensor (AQS)	RD
2	3/112:5	Climate Control Module (CCM)	YE-GN	7/41:1	Temperature sensor evaporator	BU-YE
3	3/112:12 64/112:7	Climate Control Module (CCM) Connector	WH	6/103:2 6/95:2	Damper Motor Module (DMM), floor/ventilation Damper Motor Module (DMM), left-hand side	YE
4	63/25	Branching point	BK	6/48:3 6/96:3 6/102:3 6/103:3 7/159:3	Damper Motor Module (DMM), recirculation Damper Motor Module (DMM), right-hand side Damper Motor Module (DMM), defroster Damper Motor Module (DMM), floor/ventilation Air Quality Sensor (AQS)	BN
5	3/112:14 6/117:3	Climate Control Module (CCM) Interior temperature sensor	BN-GN	7/41:3	Temperature sensor evaporator	GN-OG
6	3/112:7 64/112:6	Climate Control Module (CCM) Connector	WH-GN	7/159:2 6/102:2 6/48:2 6/96:2	Air Quality Sensor (AQS) Damper Motor Module (DMM), defroster Damper Motor Module (DMM), recirculation Damper Motor Module (DMM), right-hand side	VT

64/600 4-pin black

No.	Harness Engine			Harness Glow plug		
1	64/90:24	Connector	GN-OG	20/25:1	Glow plug	GN-OG
2	64/90:25	Connector	GN-OG	20/24:1	Glow plug	GN-OG
3	64/90:26	Connector	GN-OG	20/23:1	Glow plug	GN-OG
4	64/90:27	Connector	GN-OG	20/22:1	Glow plug	GN-OG

Connectors

64/650 - 64/816

64/650 16-pin black

No.	Harness Fuel tank		Harness Dosage unit, pigtail	
1	64/51:7	Connector	GN-WH	
2	-		-	
3	-		-	
4	-		-	
5	-		-	
6	64/51:6	Connector	BU-RD	
7	64/51:2	Connector	GY-RD	
8	64/51:8	Connector	BK-OG	
9	6/33:1	Fuel pump	GN-OG	
10	6/33:2	Fuel pump	BK-RD	
11	6/33:4	Fuel pump	WH	
12	-		-	
13	6/33:3	Fuel pump	BN	
14	-		-	
15	-		-	
16	-		-	

64/814 2-pin black

No.	Harness Engine compartment		Harness ABS		
1	4/16:45	Brake Control Module (BCM)	WH	7/31:1	Sensor ABS, front left
2	4/16:46	Brake Control Module (BCM)	BN	7/31:2	Sensor ABS, front left

64/815 2-pin black

No.	Harness Engine compartment		Harness ABS		
1	4/16:34	Brake Control Module (BCM)	WH-RD	7/32:1	Sensor ABS, front right
2	4/16:33	Brake Control Module (BCM)	BN-RD	7/32:2	Sensor ABS, front right

64/816 2-pin black

No.	Harness Floor		Harness ABS Rear, left		
1	64/113:1	Connector	WH	7/56:1	Sensor ABS, rear left
2	64/113:2	Connector	BN	7/56:2	Sensor ABS, rear left

Connectors

64/817 - 64/978

64/817 2-pin black

No.	Harness Floor		Harness ABS Rear, right		
1	64/113:3	Connector	YE-GN	7/57:1	Sensor ABS, rear right
2	64/113:4	Connector	WH-GN	7/57:2	Sensor ABS, rear right

64/861 1-pin black

No.	Harness PTC-Element, Climate control system		Harness Engine compartment		
1	9/41A:2	PTC-element	RD	F5:2	Fuse

64/862 1-pin white

No.	Harness PTC-Element, Climate control system		Harness Engine compartment		
1	9/41A:1	PTC-element	-	31/112	Ground connection

64/977A 2-pin

No.	Harness Floor		Harness Dashboard		
1	64/979G:1	Connector	OG	16/1B:2	Infotainment Control Module (ICM)
				16/108:2	Multimedia Module (MMM)
2	64/978:2	Connector	OG	16/66	Antenna, remote control
				16/107:1	Media Player Module (MPM)

64/978 2-pin

No.	Harness Floor		Harness MOST amplifier		
1	64/979G:2	Connector	OG	16/105D:1	Audio Module (AUD)
2	64/977A:2	Connector	OG	16/105D:2	Audio Module (AUD))
				16/139C:2	Global Positioning System Module (GPS)

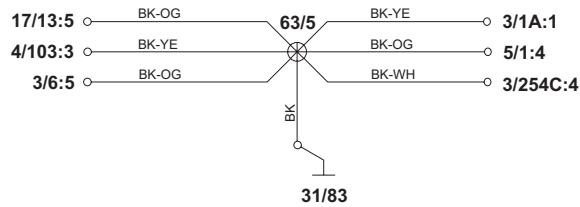
64/1300
6-pin

No.	Harness Parking assistance, front		Harness engine compartment	
1	63/615	Branching point	64/1400:1	Connector
2	7/207:2	Sensor parking assistance 8	64/1400:2	Connector
3	7/206:2	Sensor parking assistance 7	64/1400:3	Connector
4	7/205:2	Sensor parking assistance 6	64/1400:4	Connector
5	7/204:2	Sensor parking assistance 5	64/1400:5	Connector
6	63/616	Branching point	64/1400:6	Connector

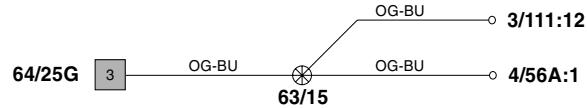
Branching points

63/5 - 63/29

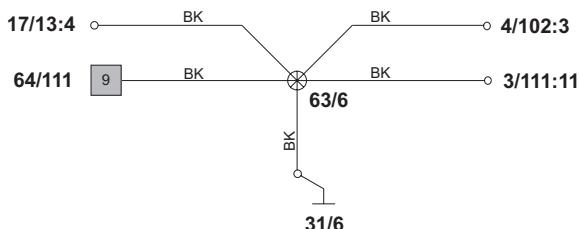
63/5



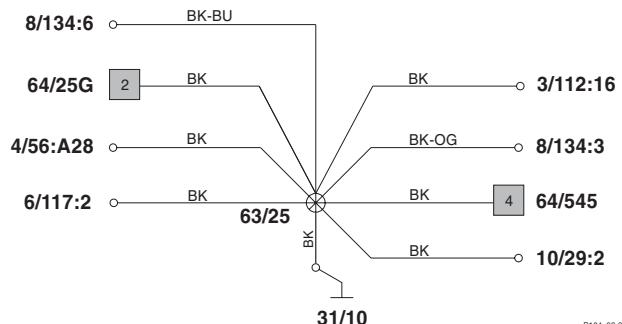
63/15



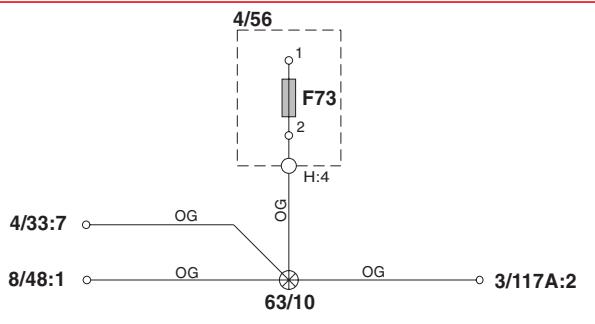
63/6



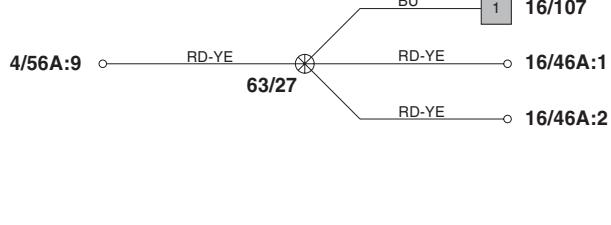
63/25



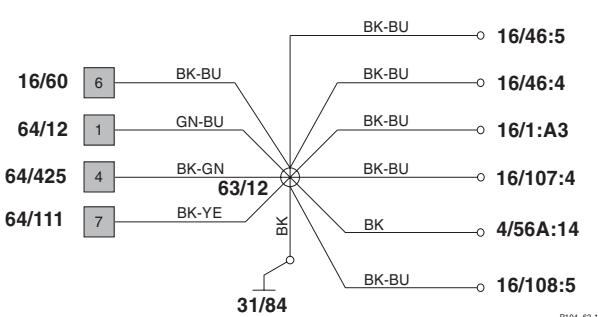
63/10



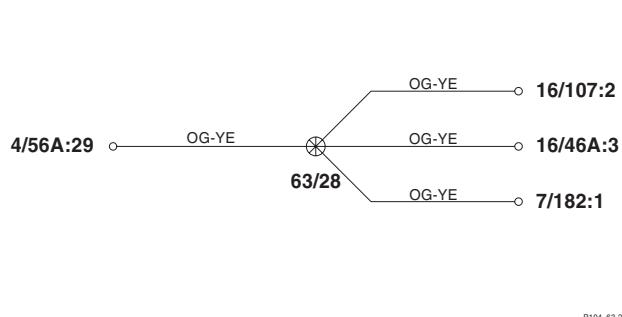
63/27



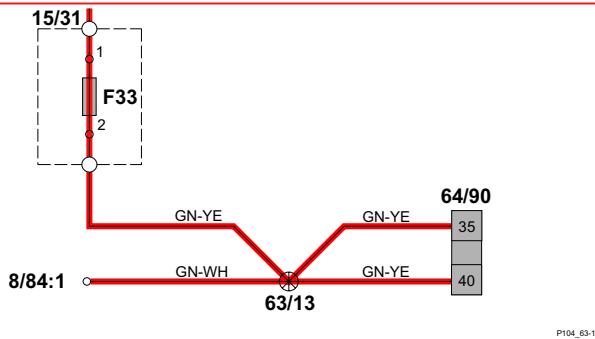
63/12



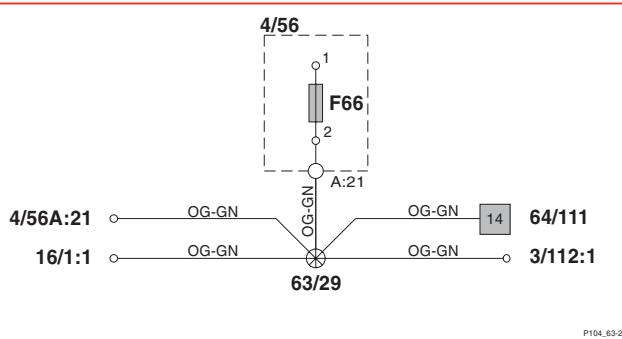
63/28



63/13



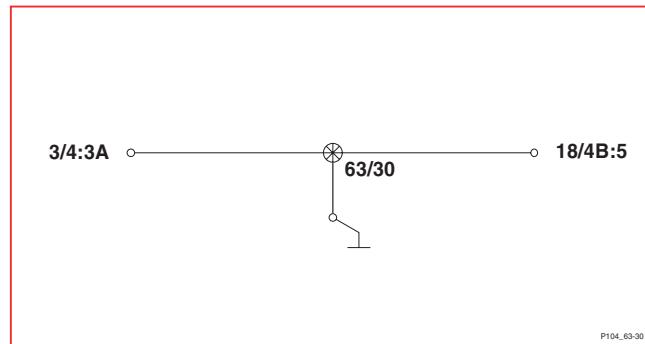
63/29



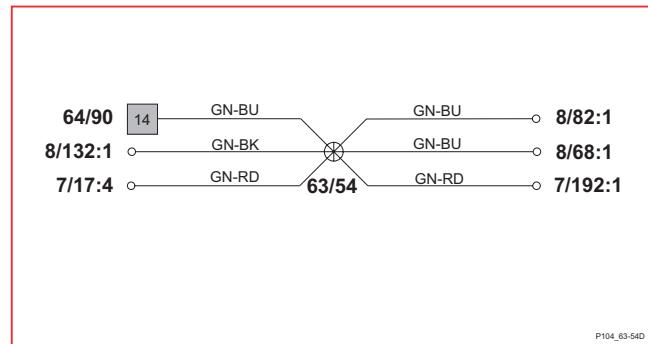
Branching points

63/30 - 63/65

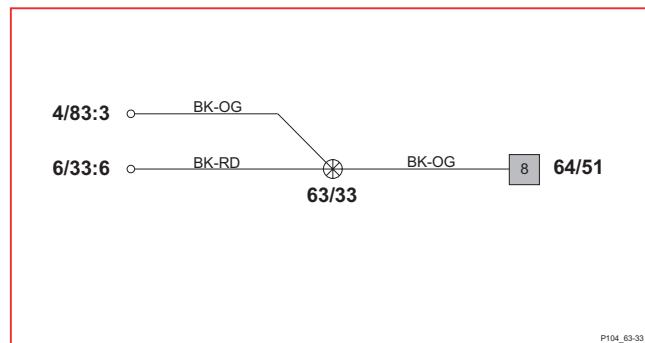
63/30



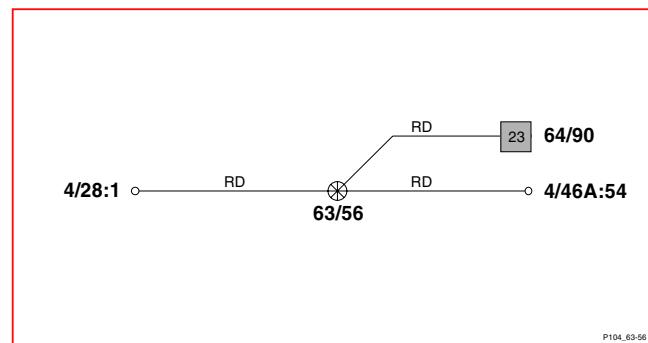
63/54 Diesel



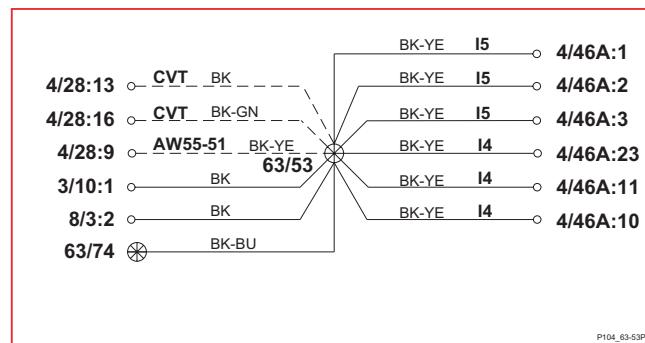
63/33



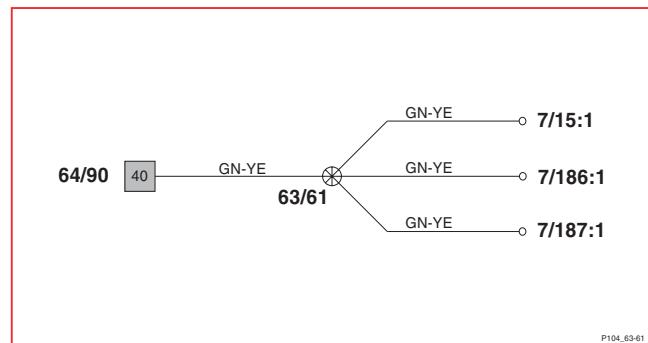
63/56



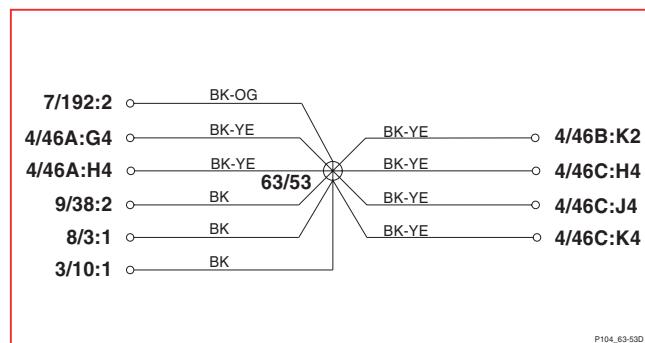
63/53 Gasoline



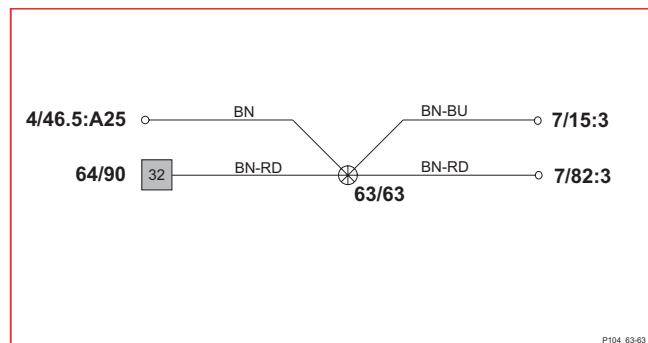
63/61



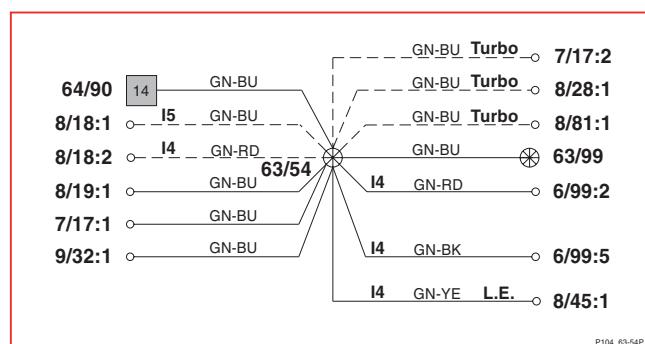
63/53 Diesel



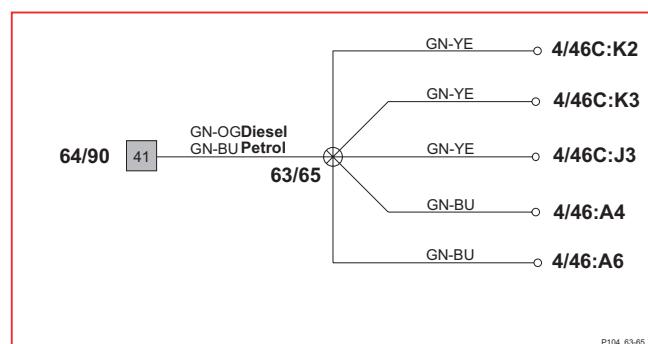
63/63



63/54 Gasoline



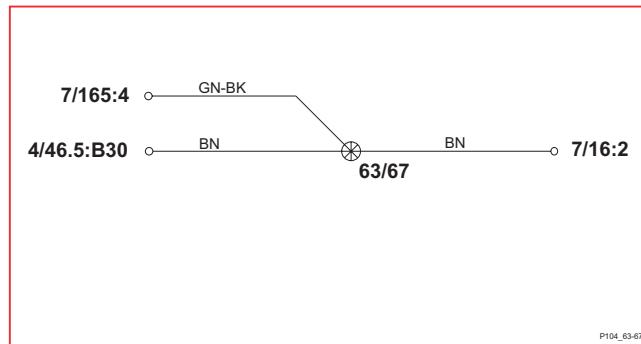
63/65



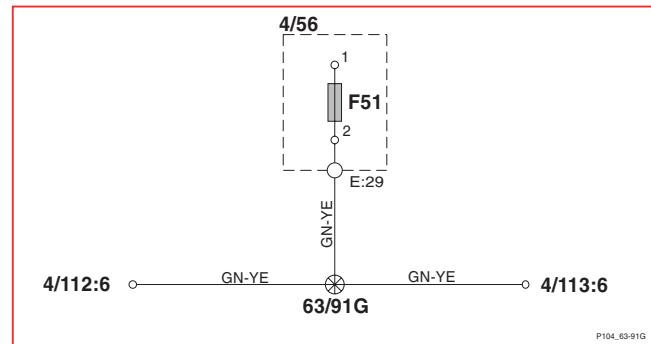
Branching points

63/67 - 63/95

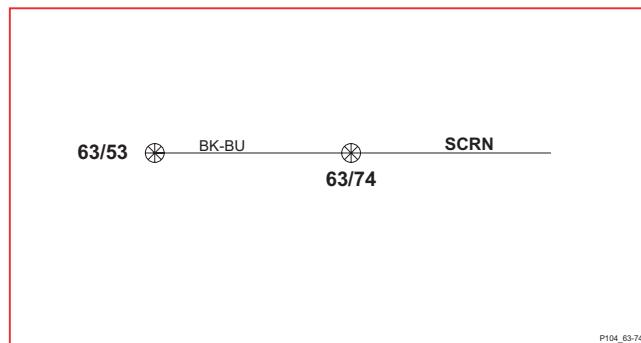
63/67



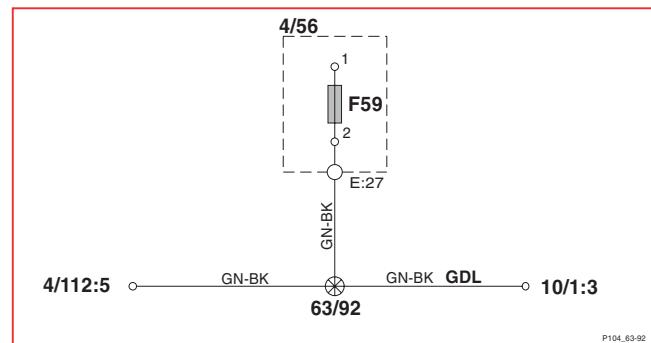
63/91G



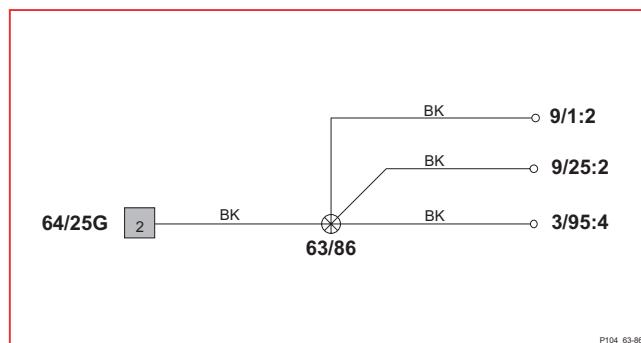
63/74



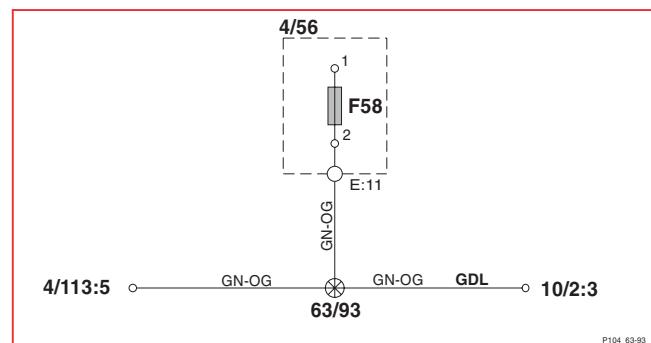
63/92



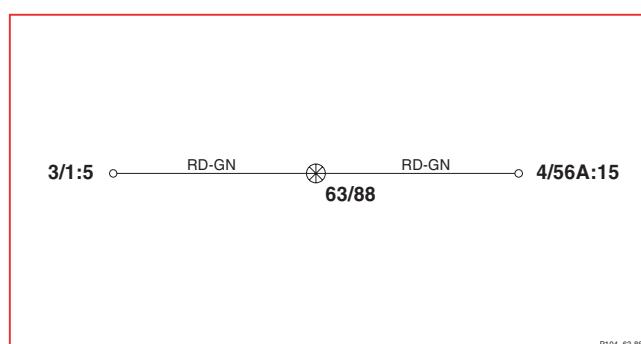
63/86



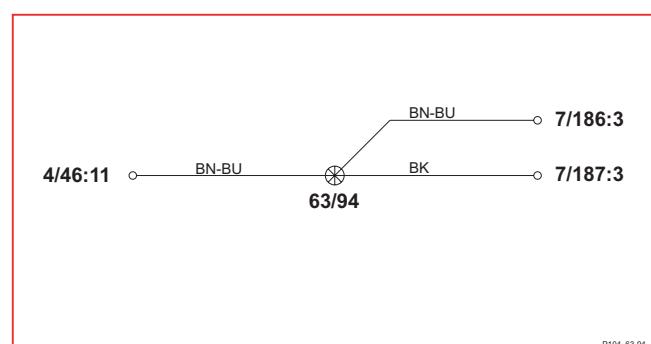
63/93



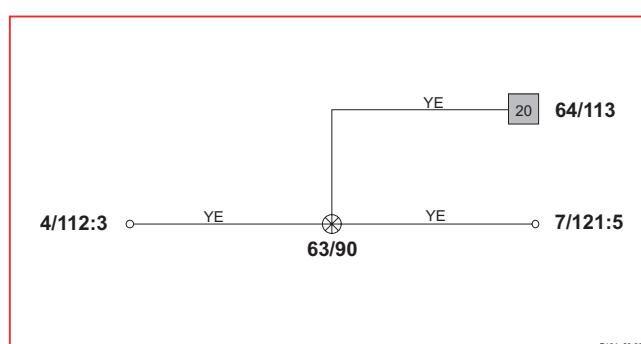
63/88



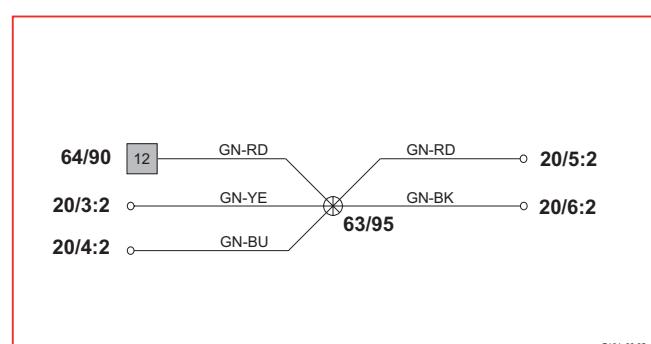
63/94



63/90



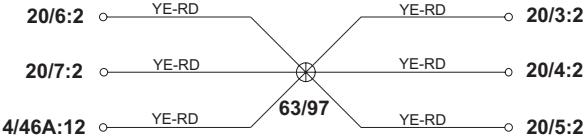
63/95



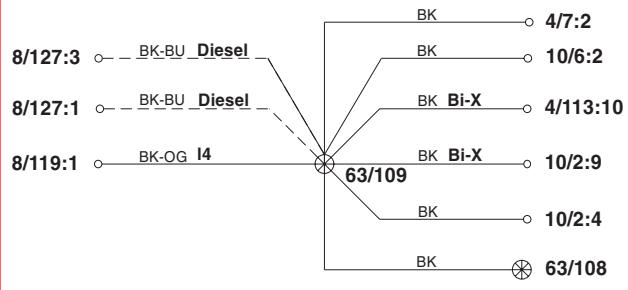
Branching points

63/97 - 63/130

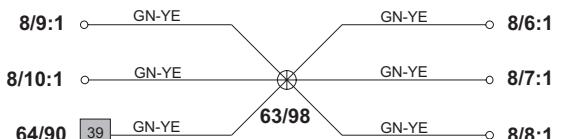
63/97 Gasoline without Turbo



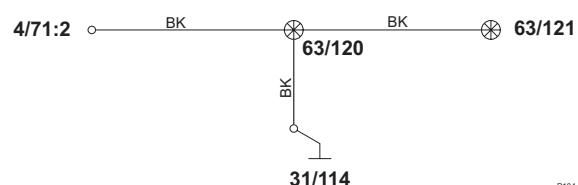
63/109



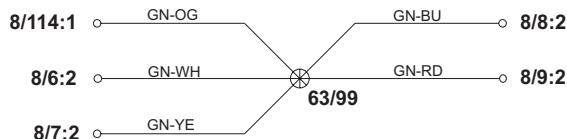
63/98 Gasoline



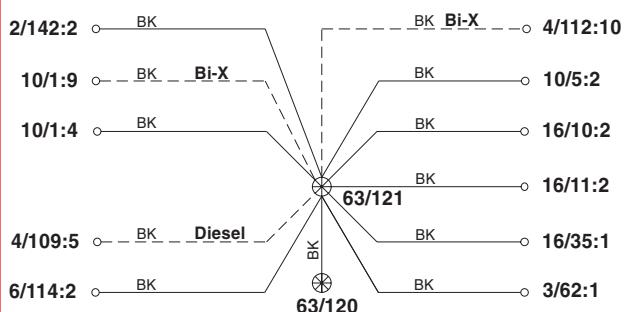
63/120



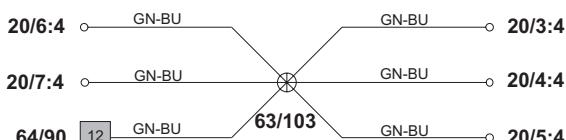
63/99



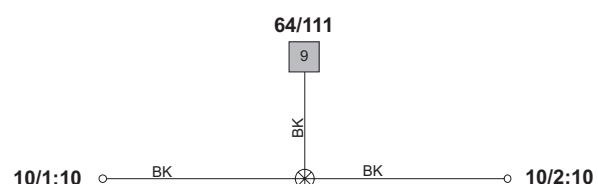
63/121



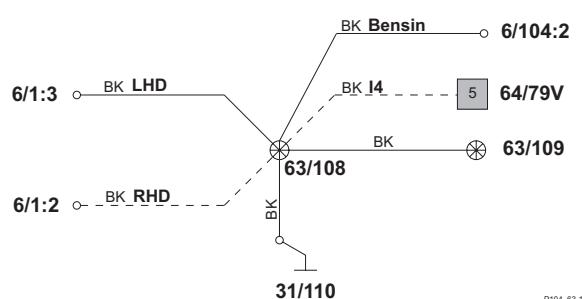
63/103 Gasoline



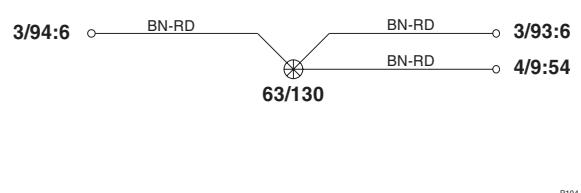
63/124



63/108



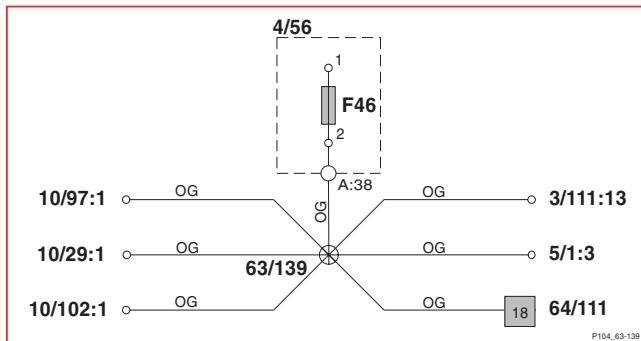
63/130



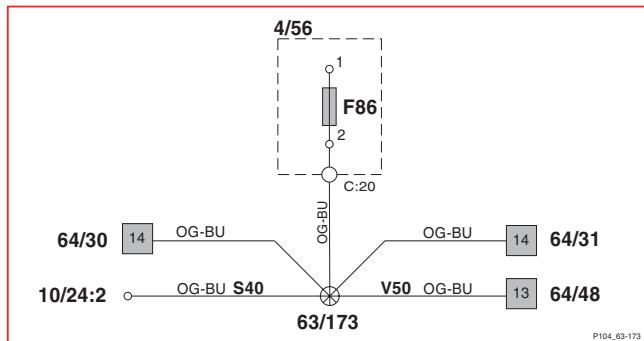
Branching points

63/139 - 63/196

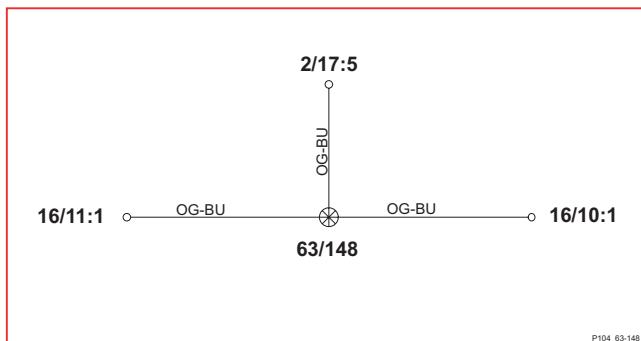
63/139



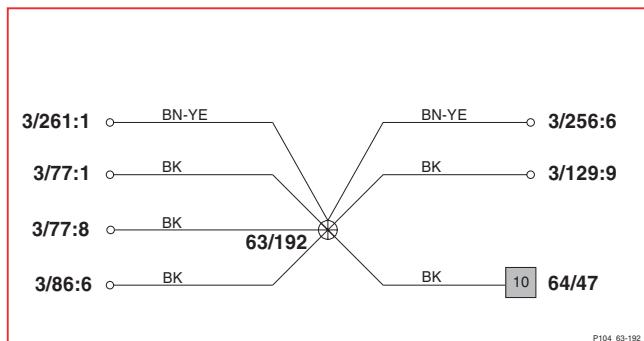
63/173



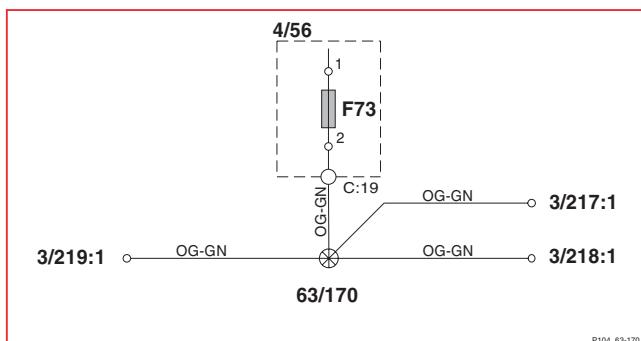
63/148



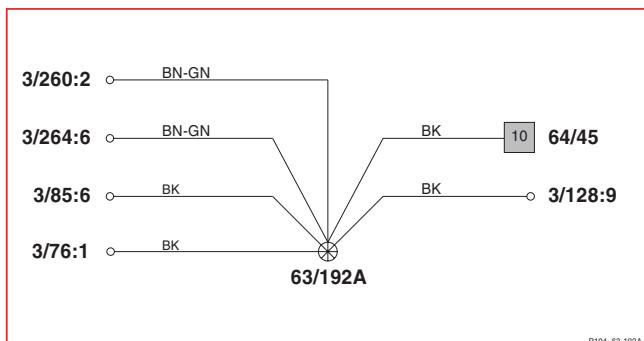
63/192



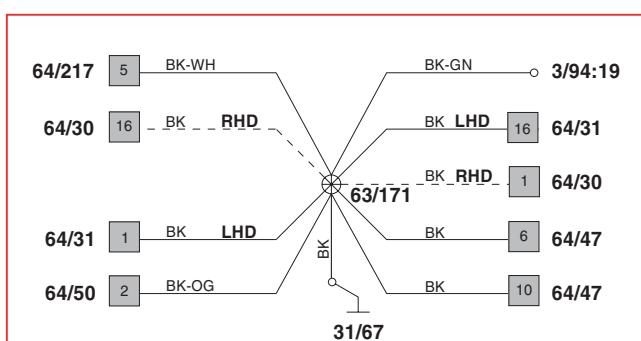
63/170



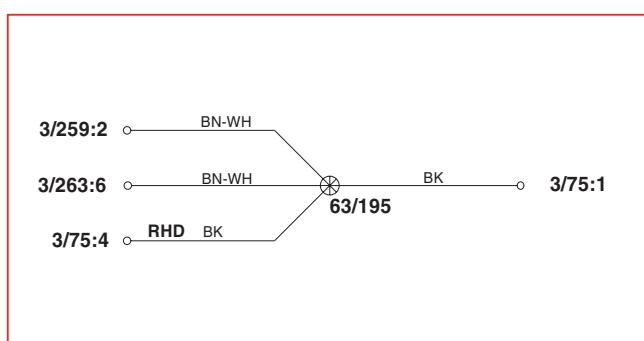
63/192A



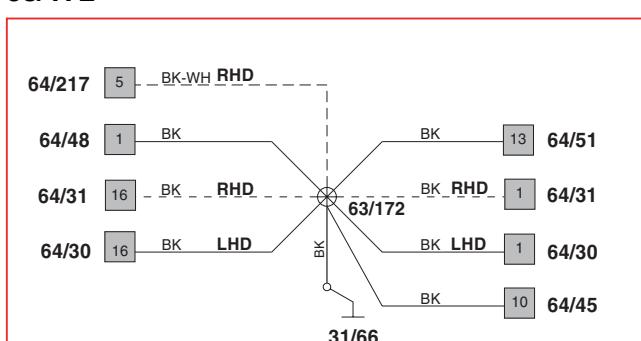
63/171



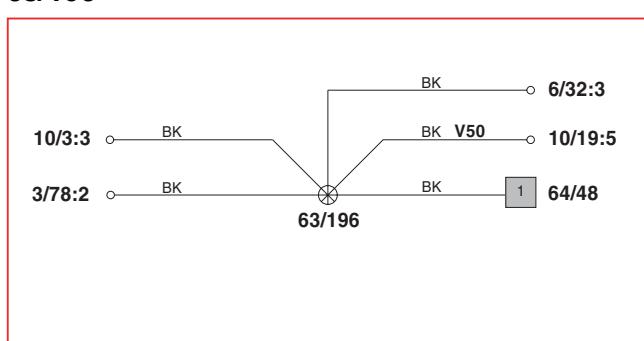
63/195



63/172



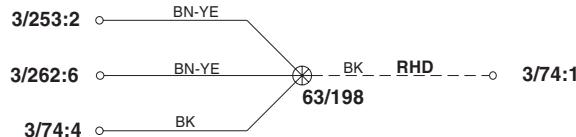
63/196



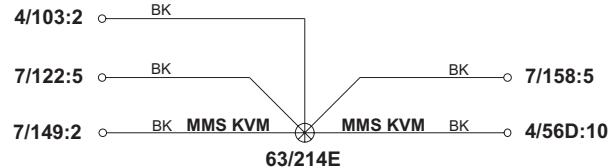
Branching points

63/198 - 63/217 V50

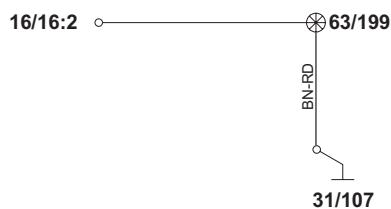
63/198



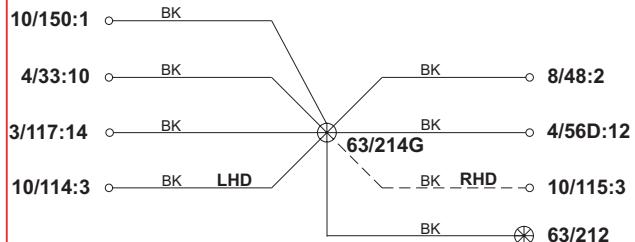
63/214E V50



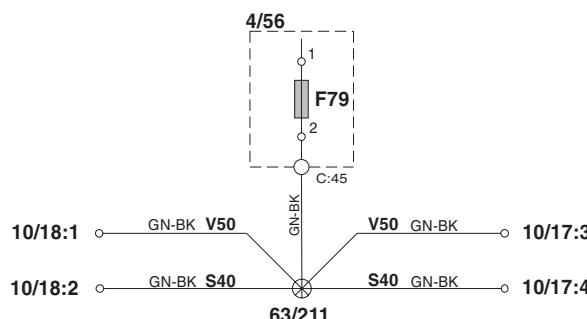
63/199



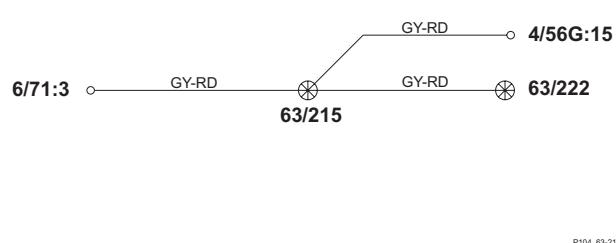
63/214G



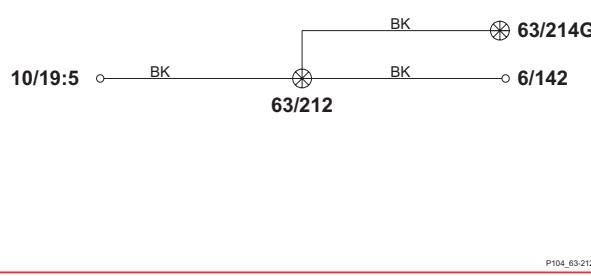
63/211



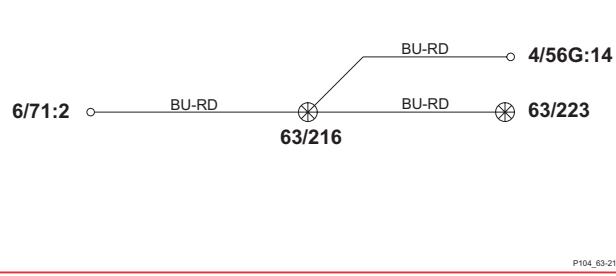
63/215



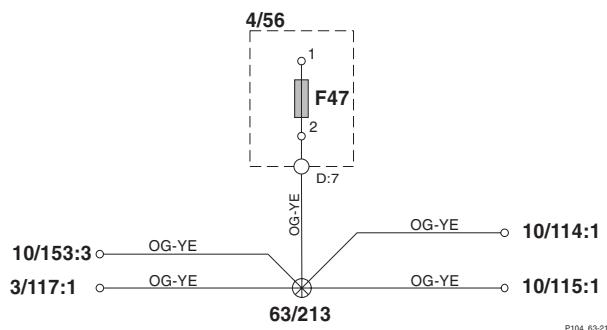
63/212



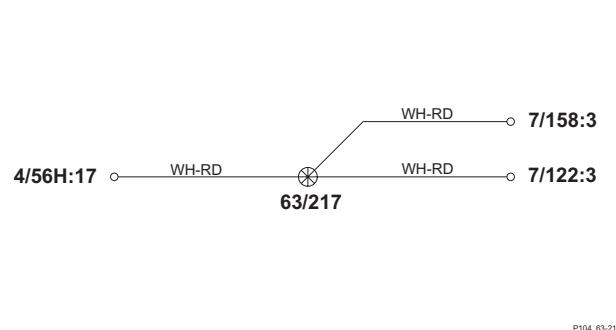
63/216



63/213



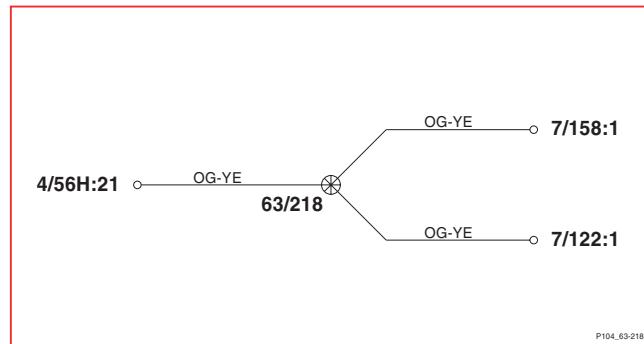
63/217 V50



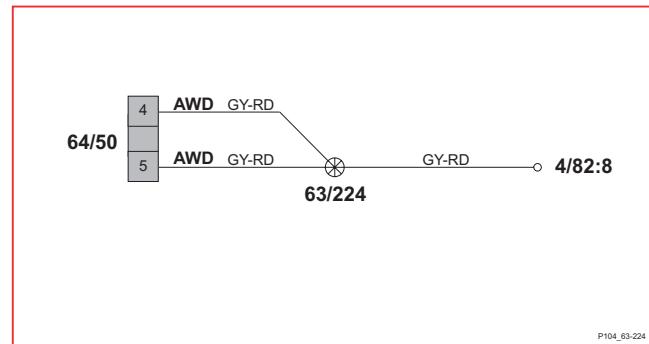
Branching points

63/218 - 63/228

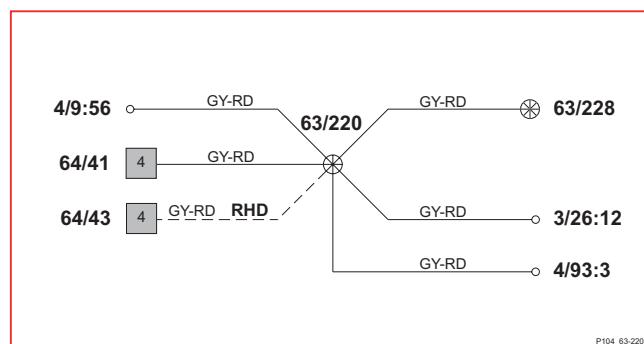
63/218 V50



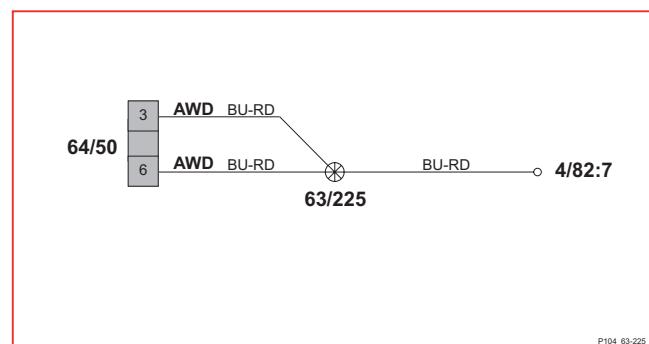
63/224



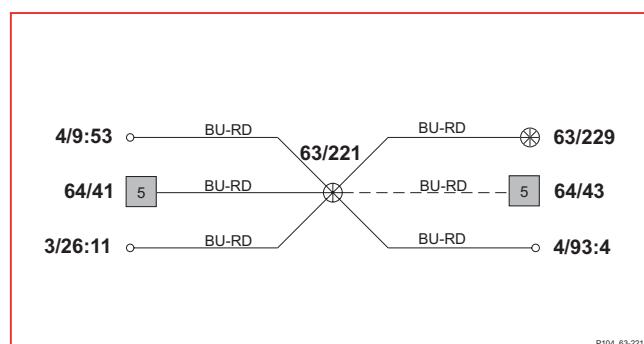
63/220



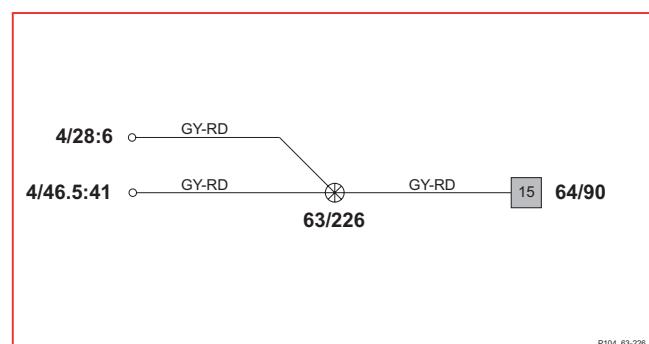
63/225



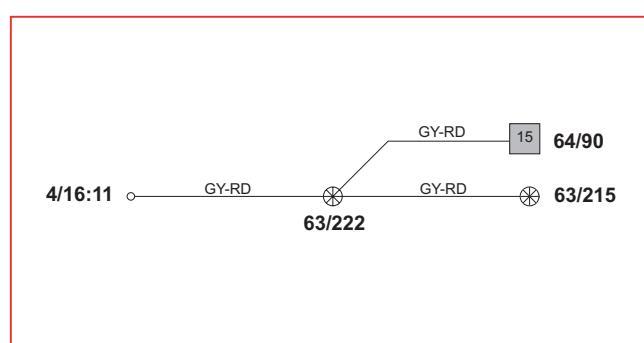
63/221



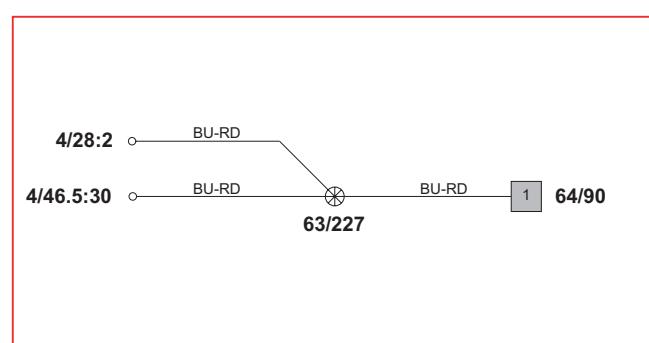
63/226



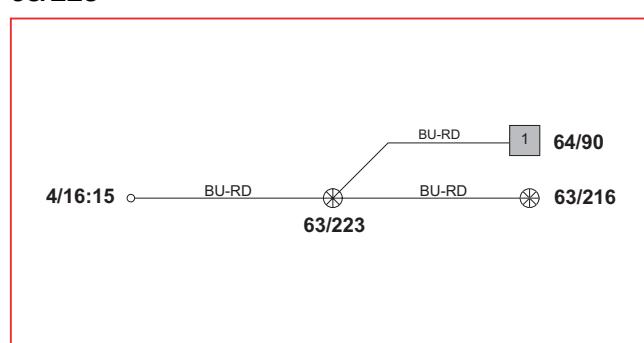
63/222



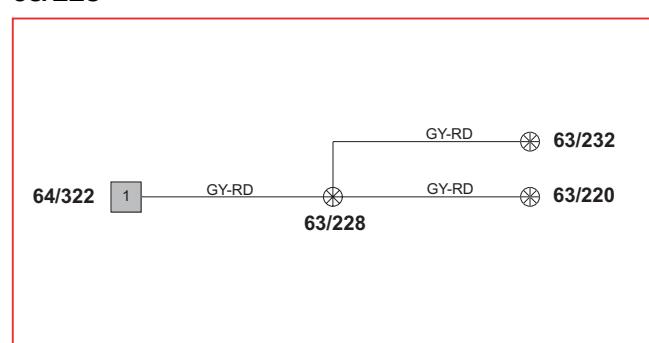
63/227



63/223



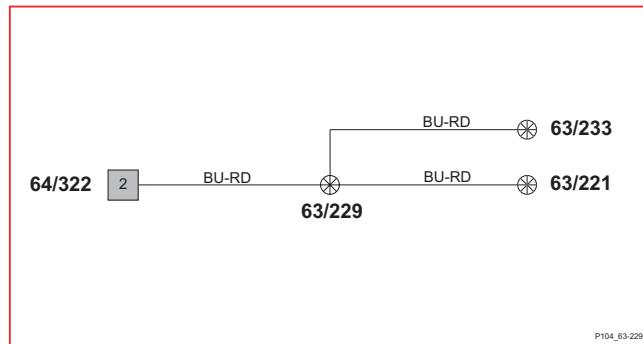
63/228



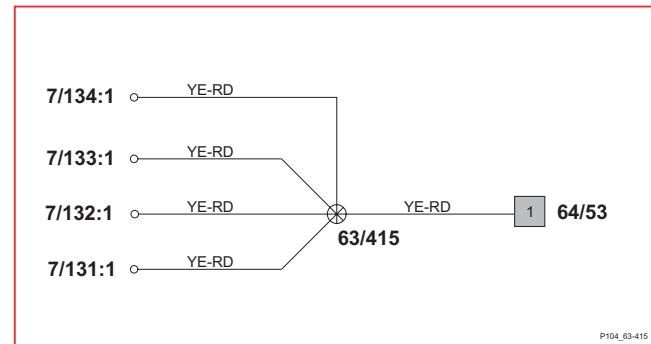
Branching points

63/229 - 63/422

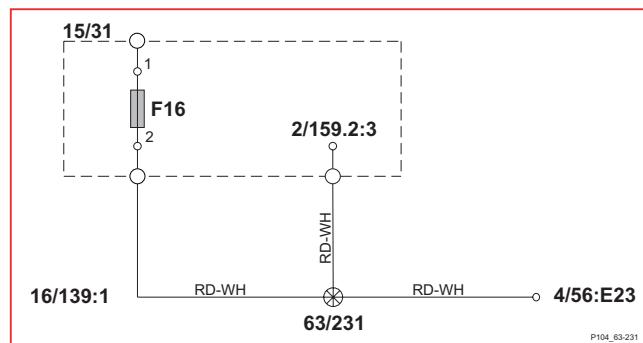
63/229



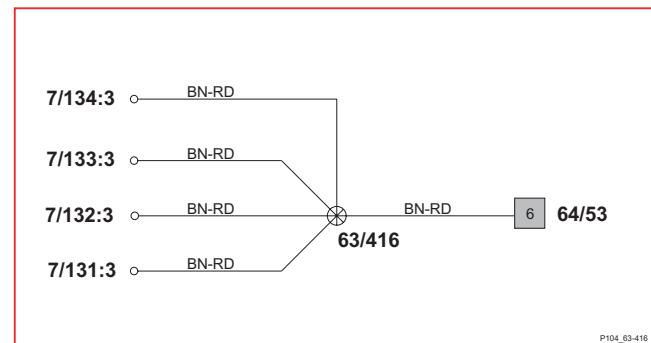
63/415



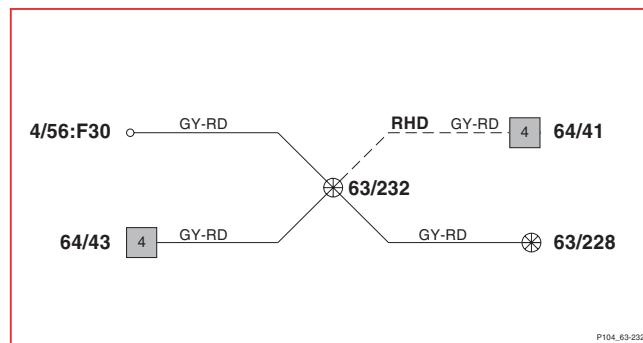
63/231



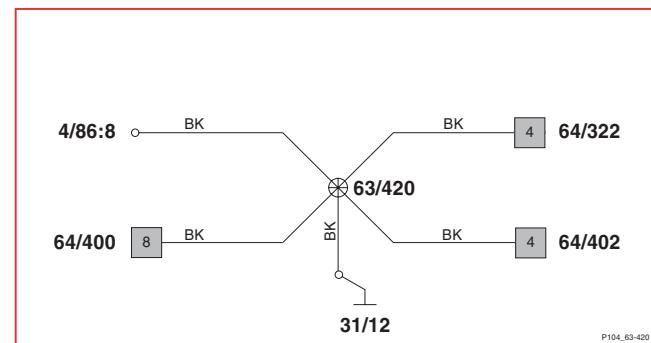
63/416



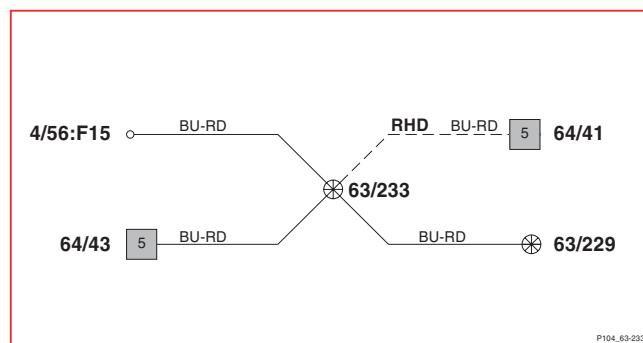
63/232



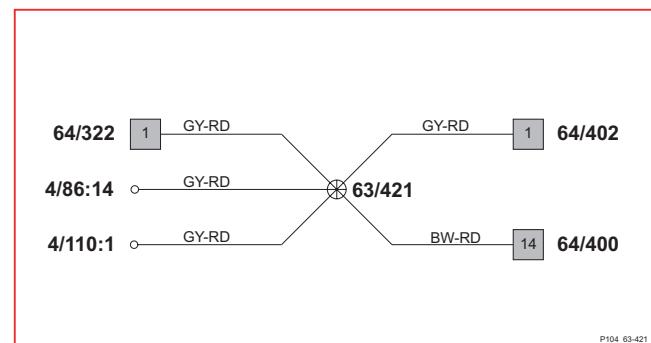
63/420



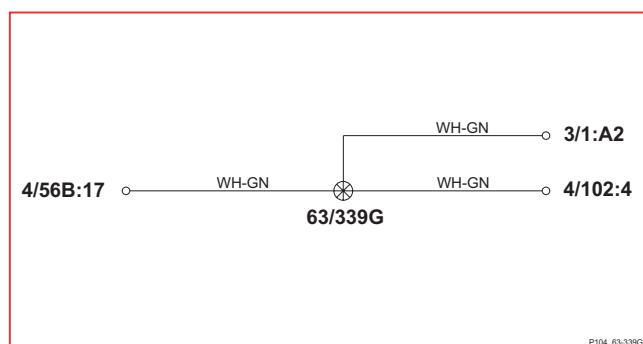
63/233



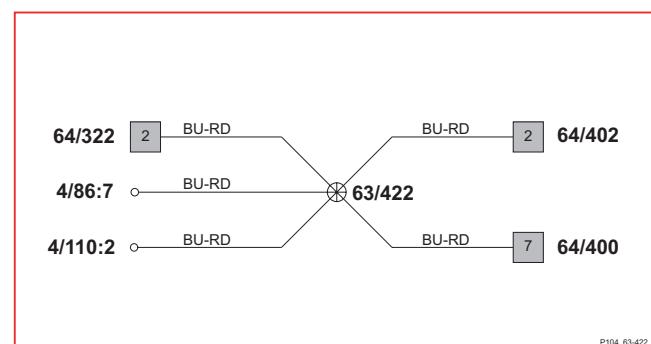
63/421



63/339G

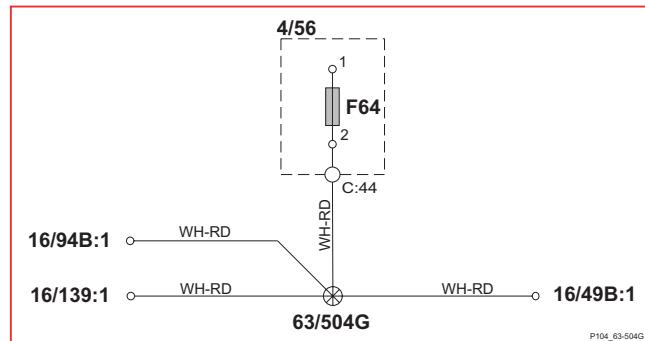


63/422

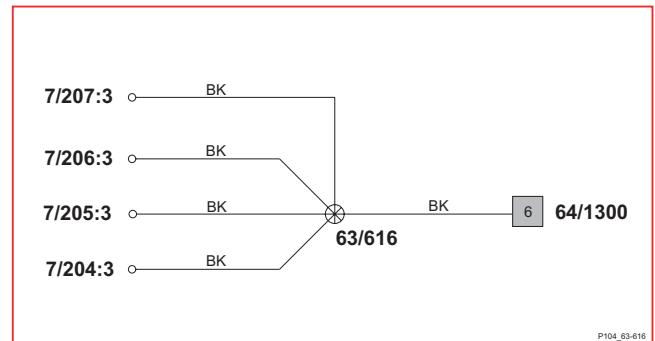


Branching points 63/504G - 63/616

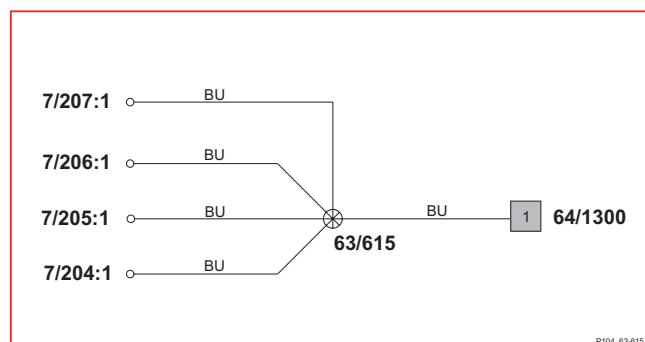
63/504G



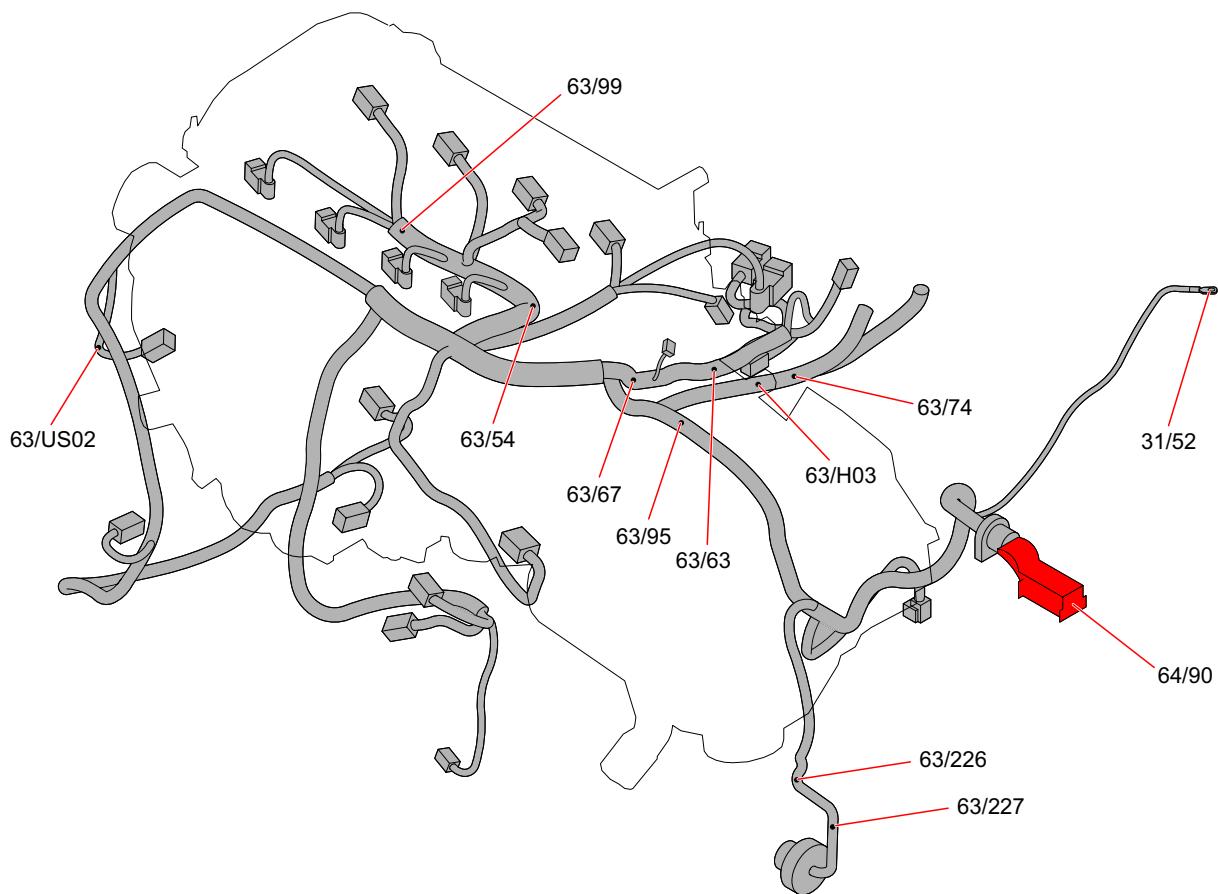
63/616



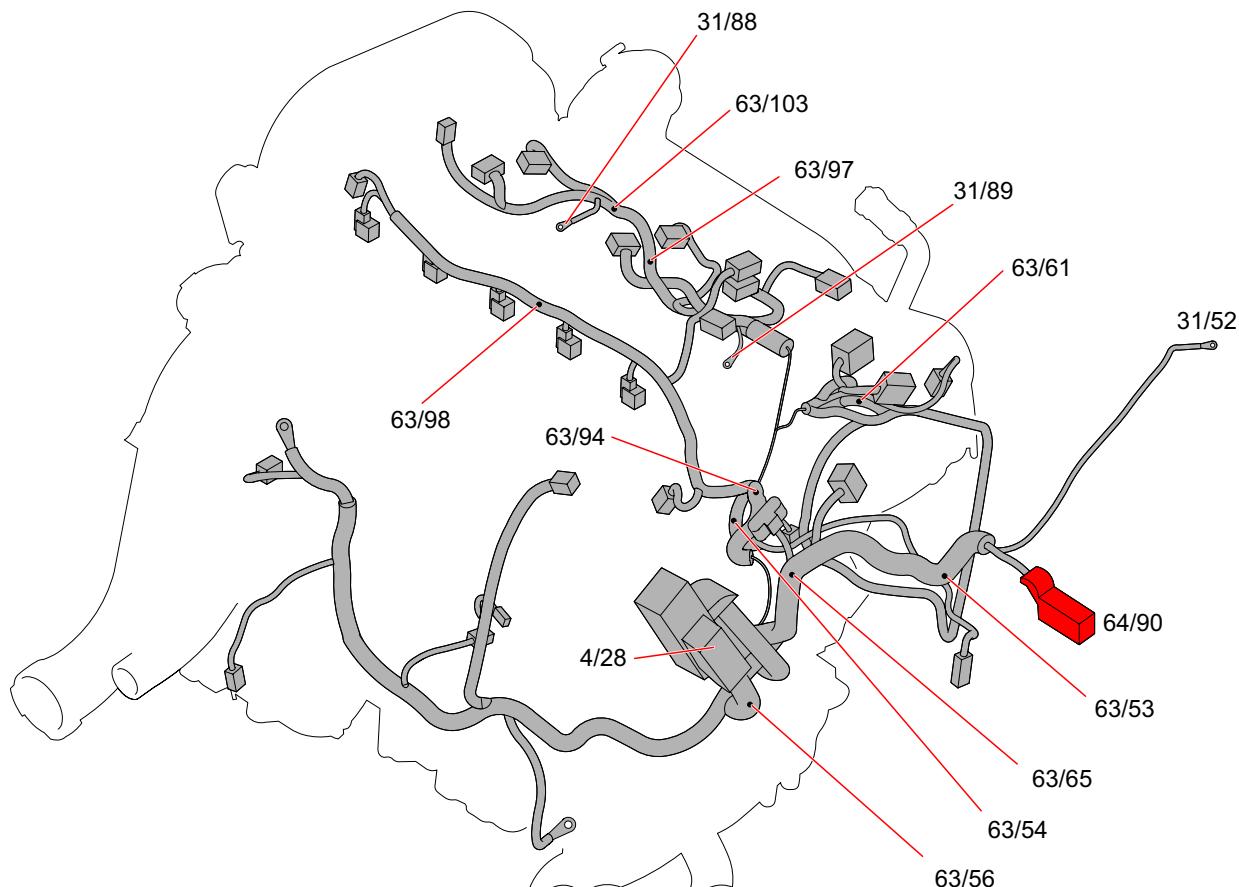
63/615



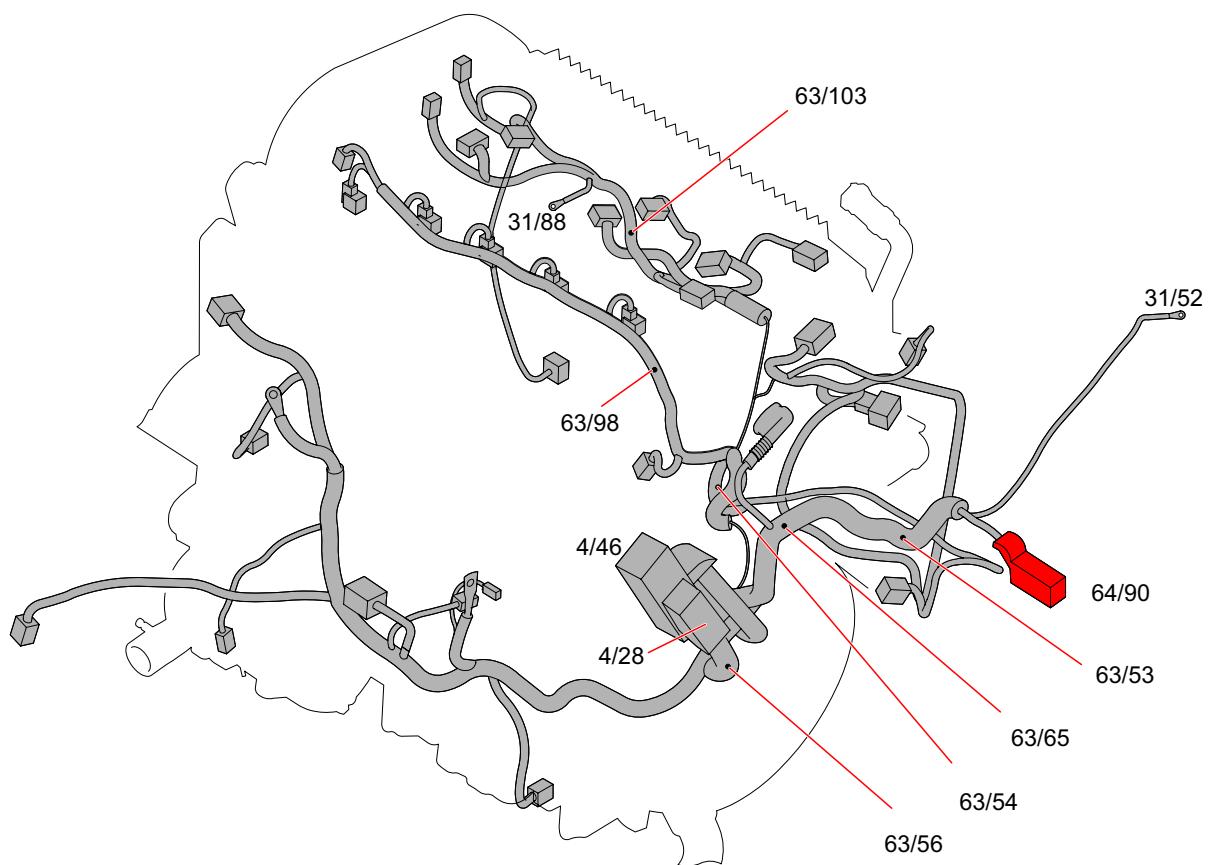
Cable harnesses' routing in the vehicle Harness engine, Gasoline 4-cyl



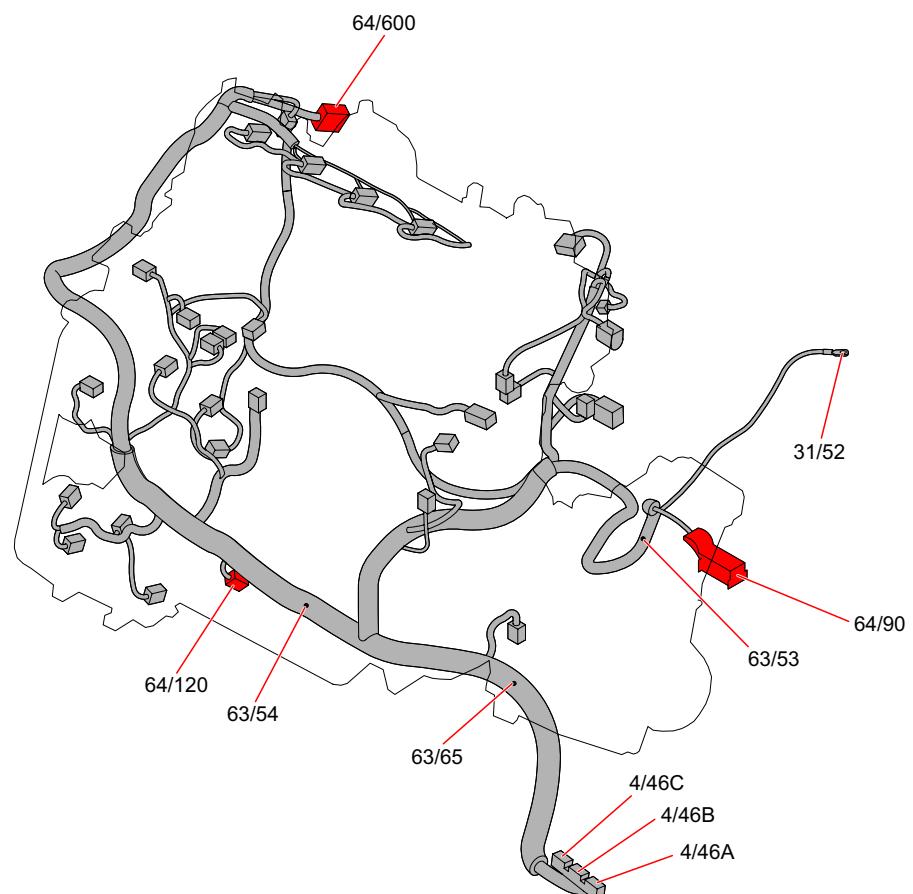
Cable harnesses' routing in the vehicle Harness engine, Gasoline 5-cyl



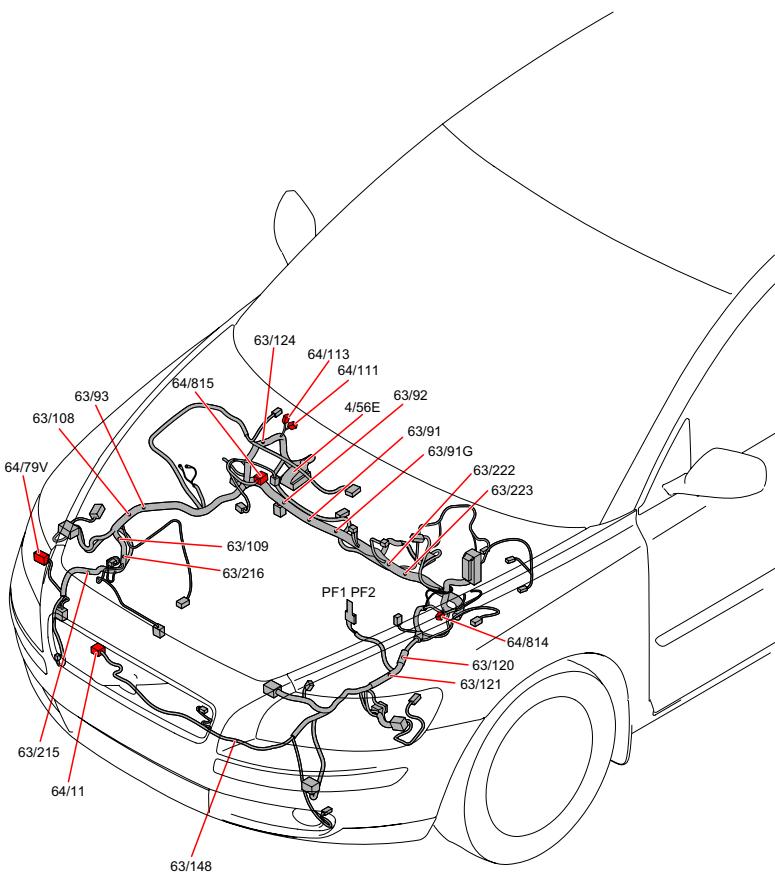
Cable harnesses' routing in the vehicle Harness engine, Gasoline 5-cyl, Turbo



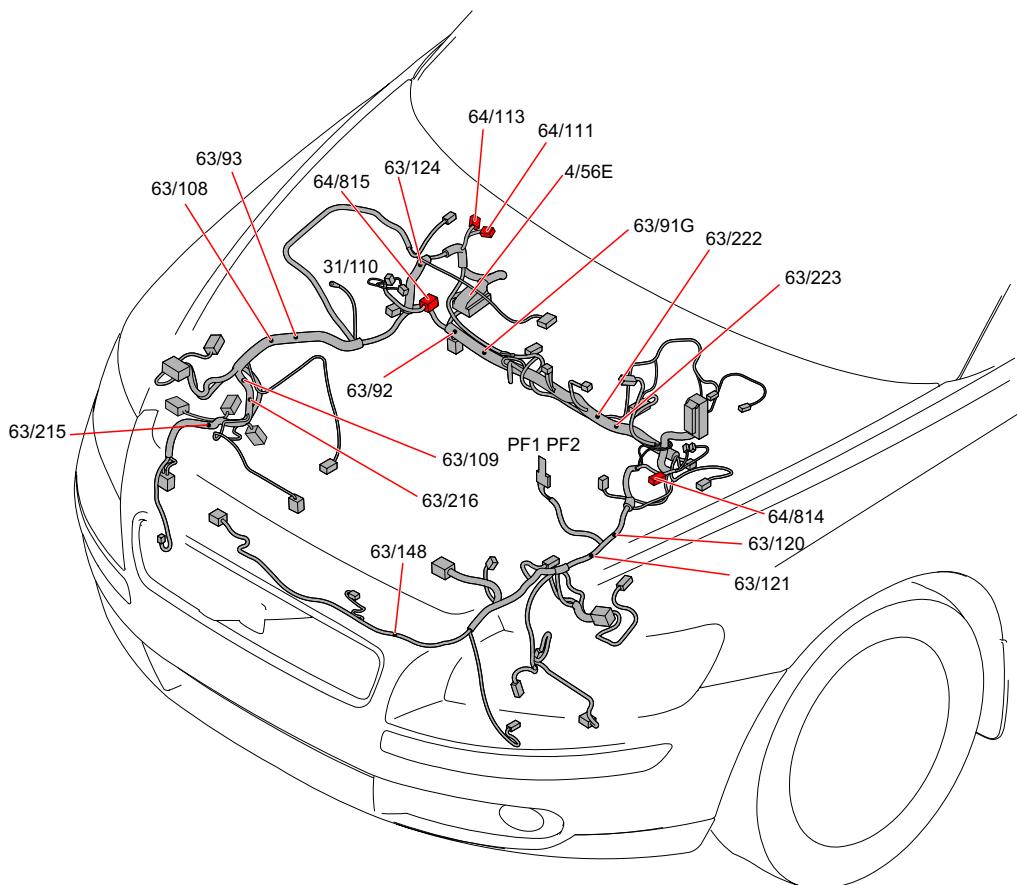
Cable harnesses' routing in the vehicle Harness engine, Diesel



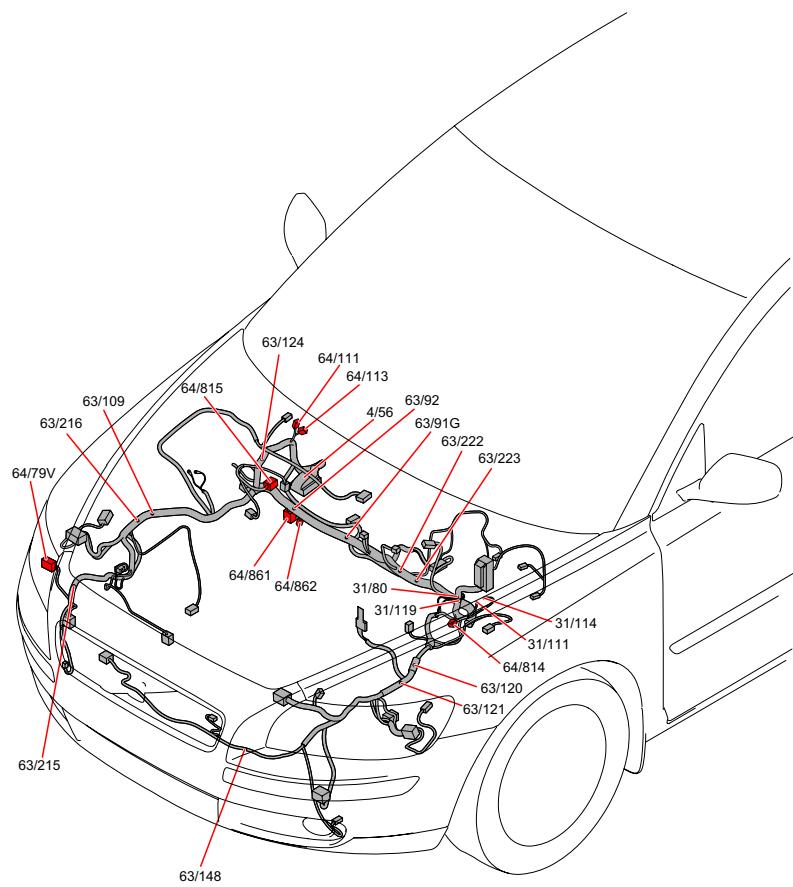
Cable harnesses' routing in the vehicle Harness engine compartment, 4-cyl



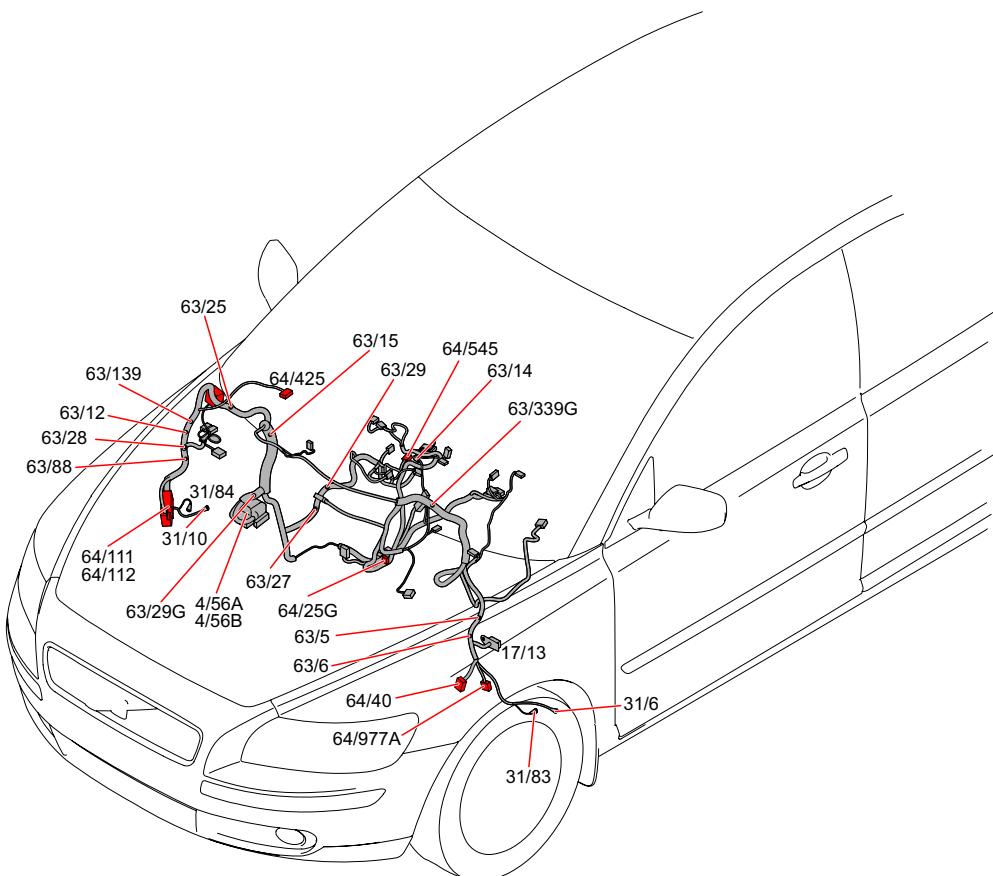
Cable harnesses' routing in the vehicle Harness engine compartment, 5-cyl & Turbo



Cable harnesses' routing in the vehicle Harness engine compartment, Diesel

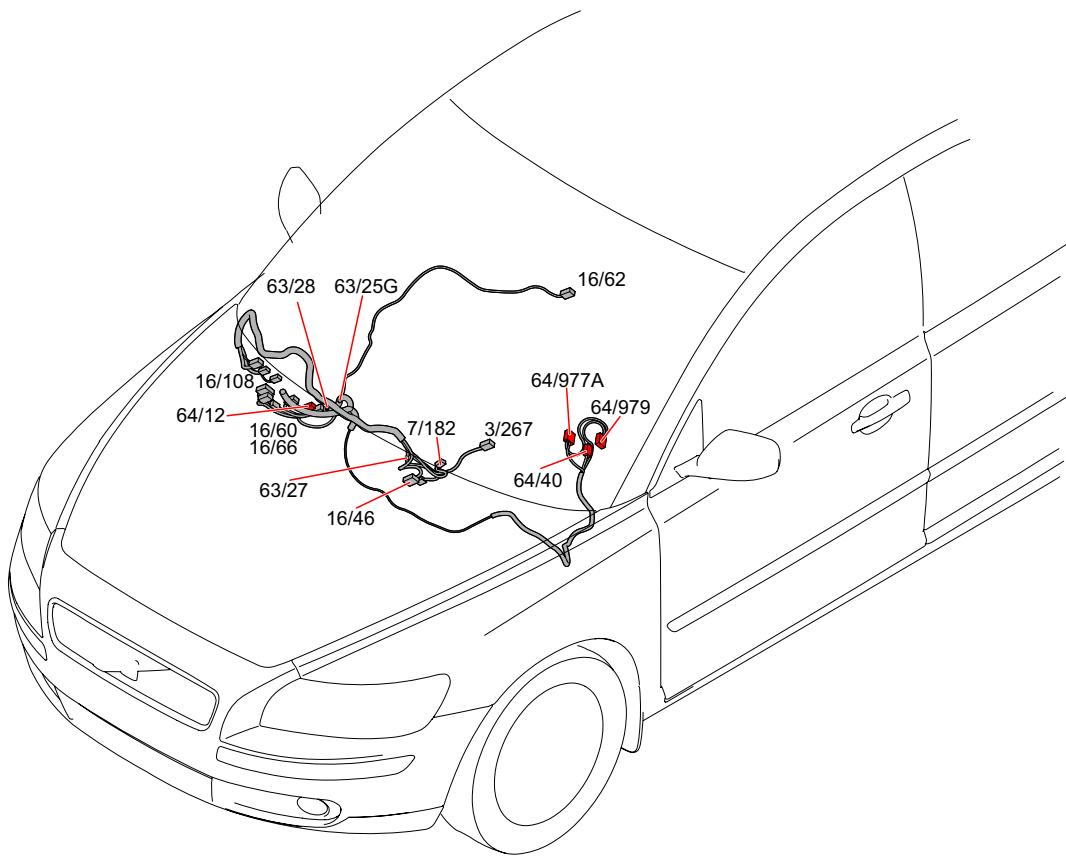


Cable harnesses' routing in the vehicle Harness Dashboard



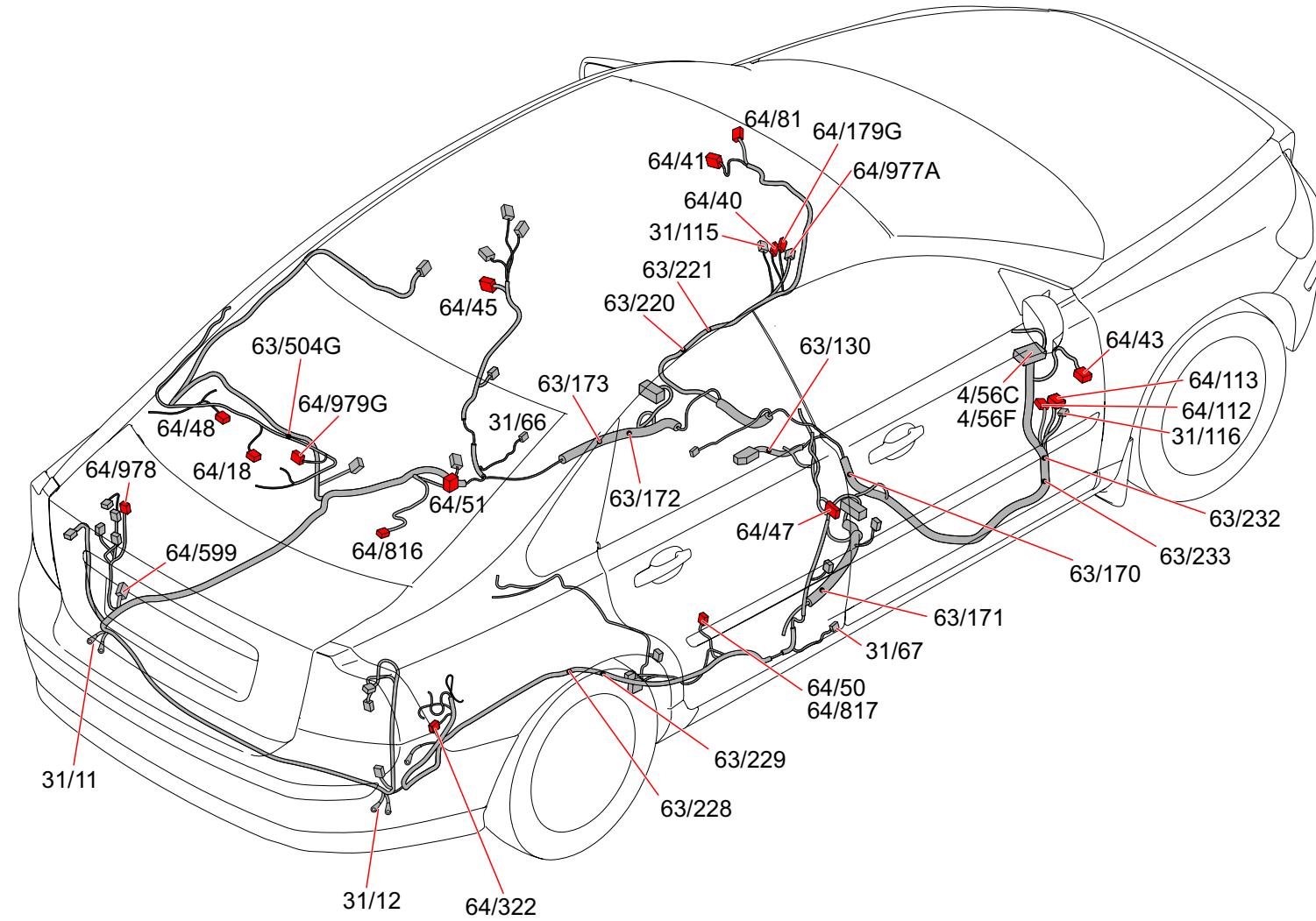
Cable harnesses' routing in the vehicle

Harness Infotainment



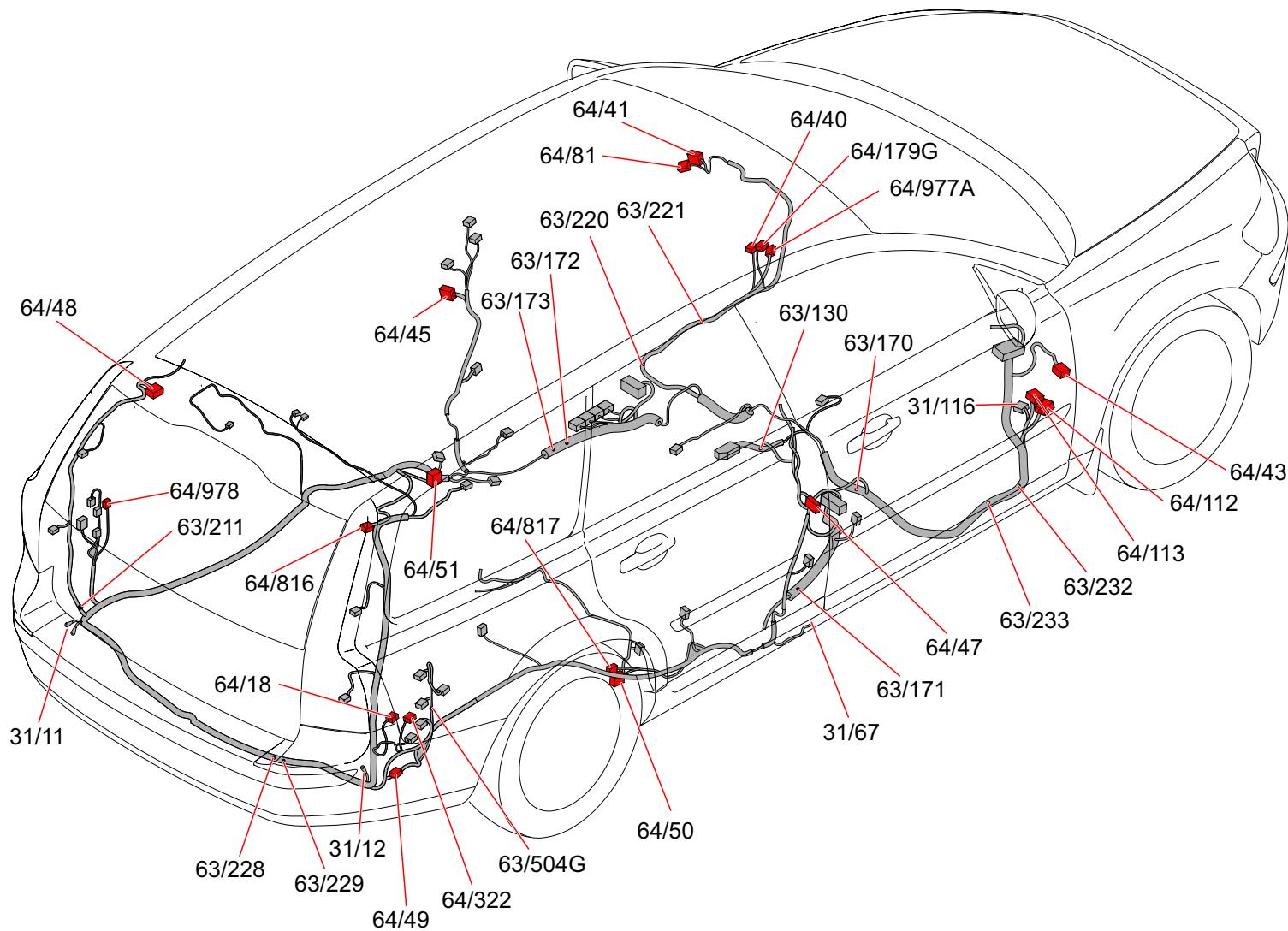
Cable harnesses' routing in the vehicle

Harness Floor S40



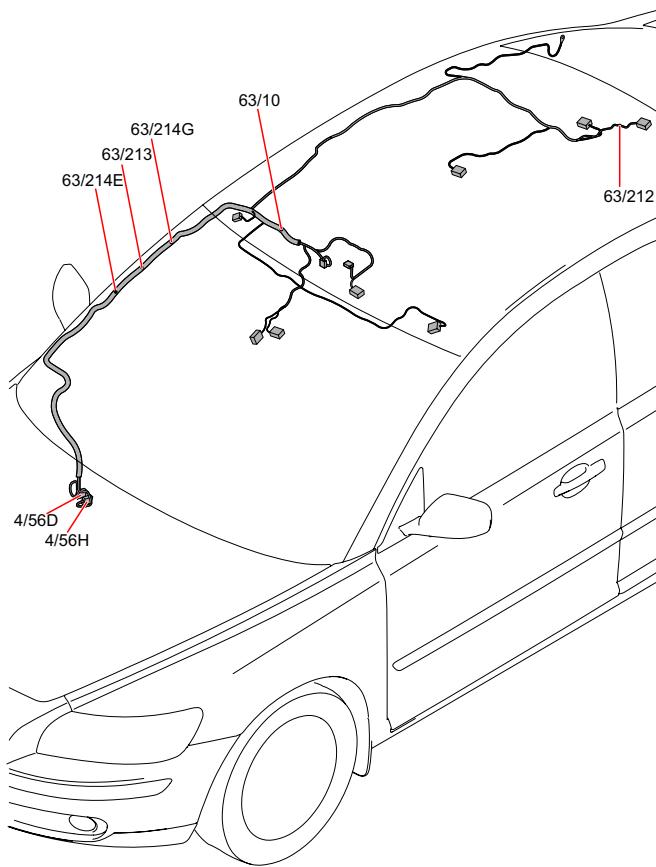
Cable harnesses' routing in the vehicle

Harness Floor V50



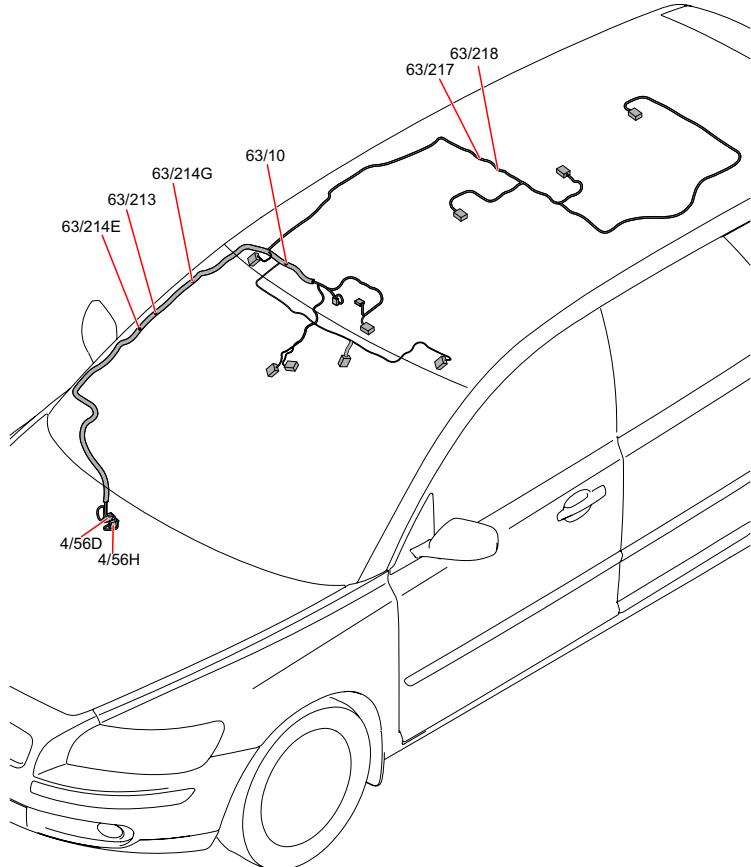
Cable harnesses' routing in the vehicle

Harness Ceiling S40



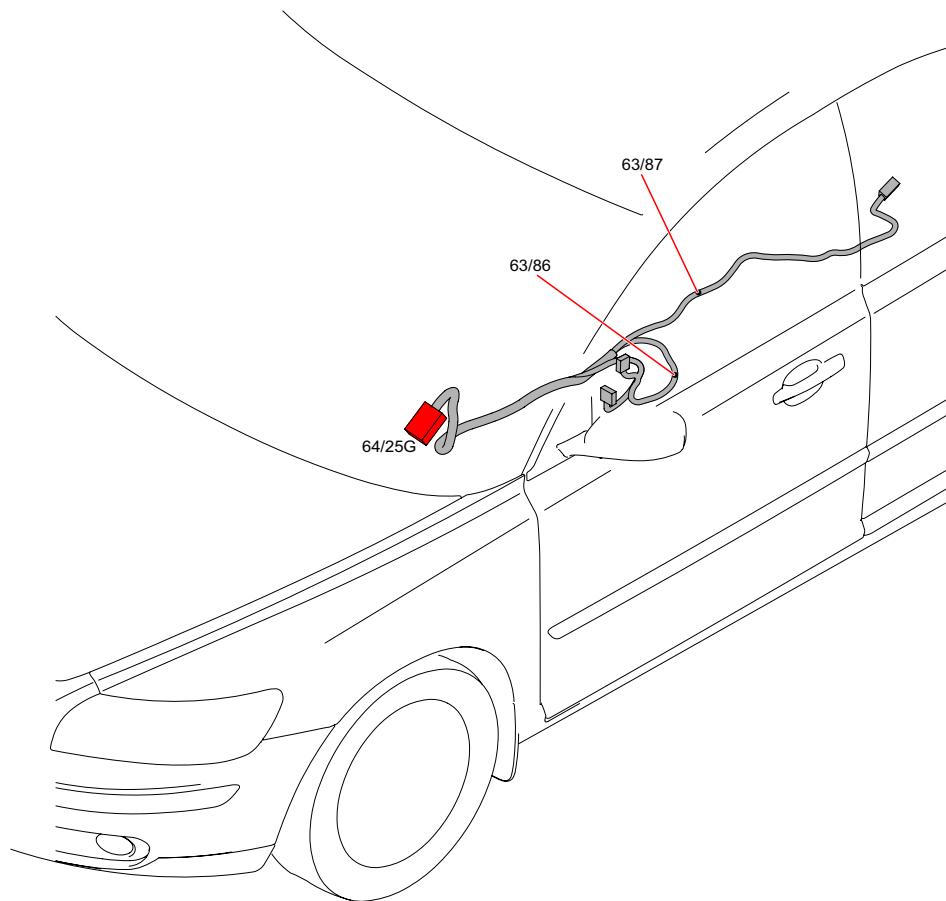
Cable harnesses' routing in the vehicle

Harness Ceiling V50



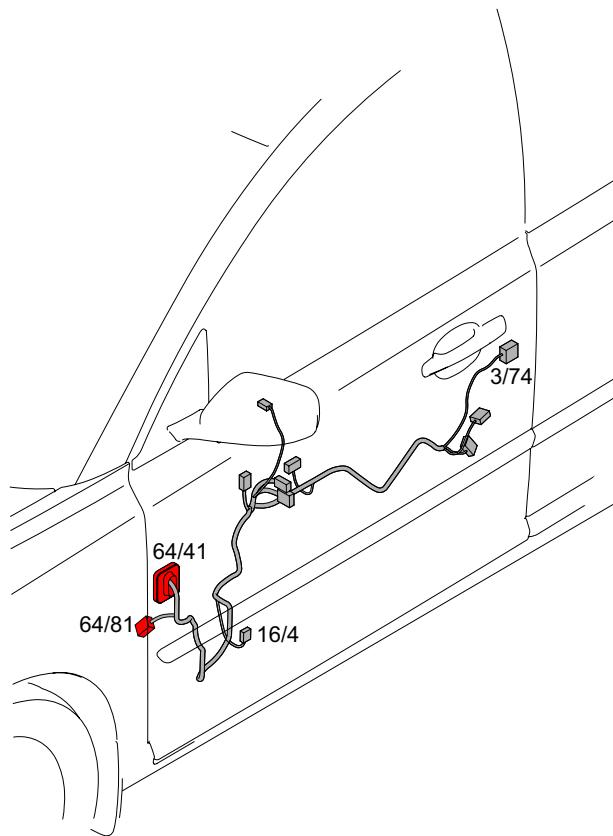
Cable harnesses' routing in the vehicle

Harness Tunnel



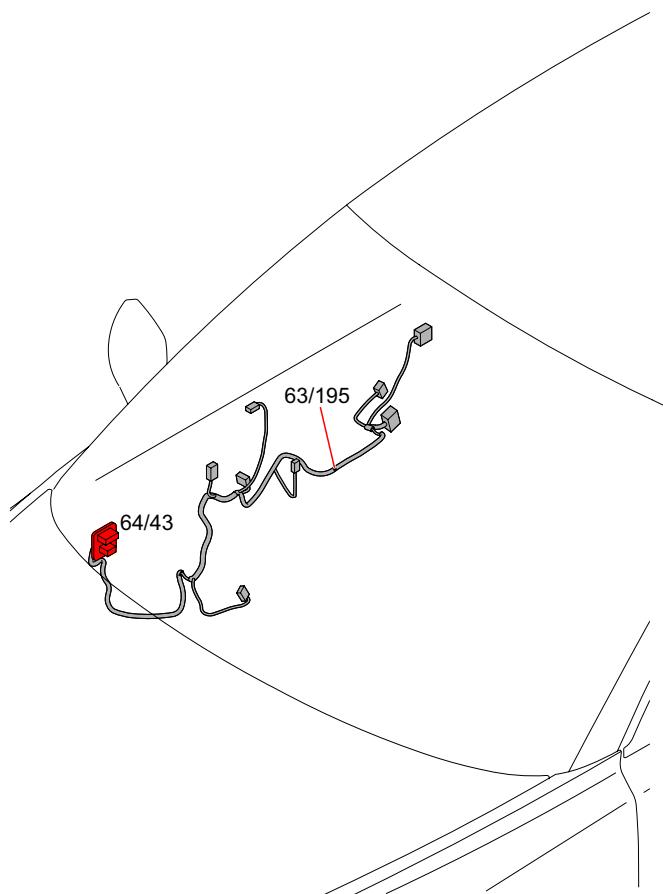
Cable harnesses' routing in the vehicle

Harness Driver door

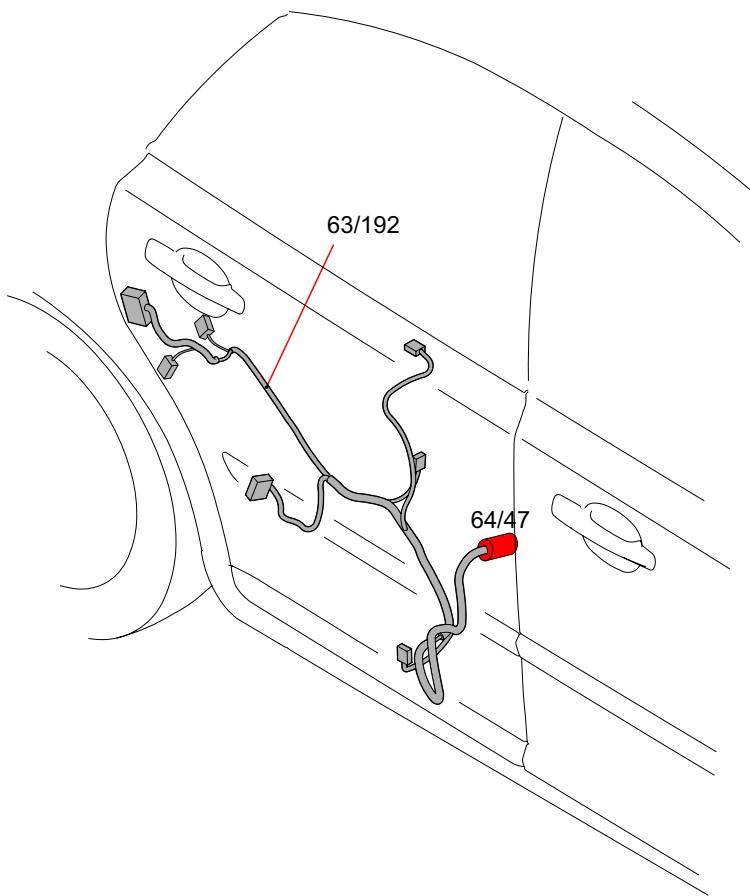


Cable harnesses' routing in the vehicle

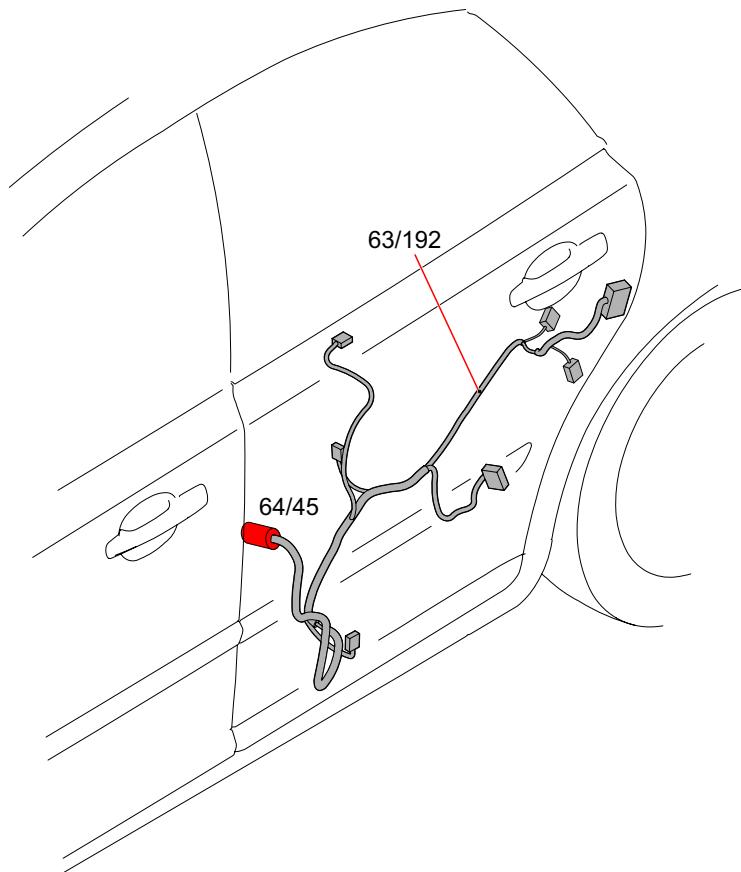
Harness Passenger door



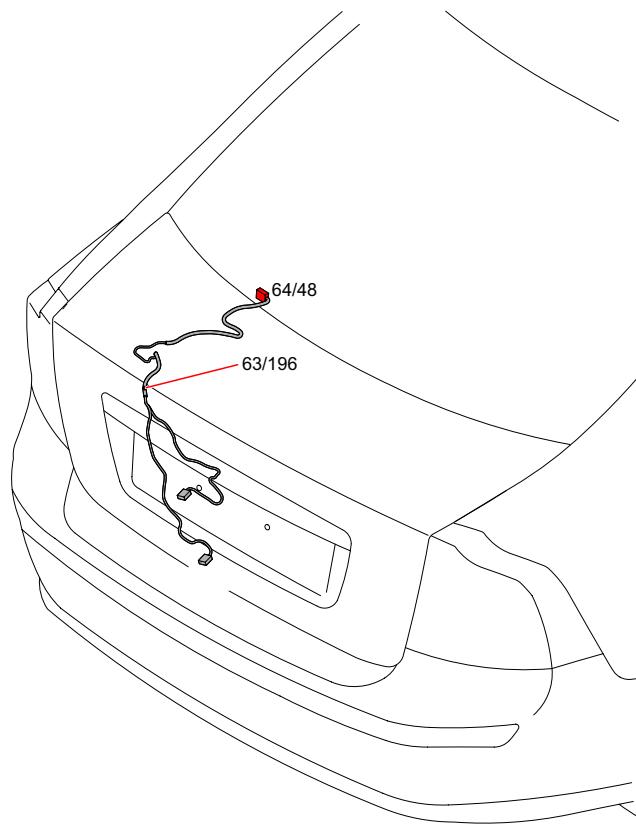
Cable harnesses' routing in the vehicle
Harness Rear door, right



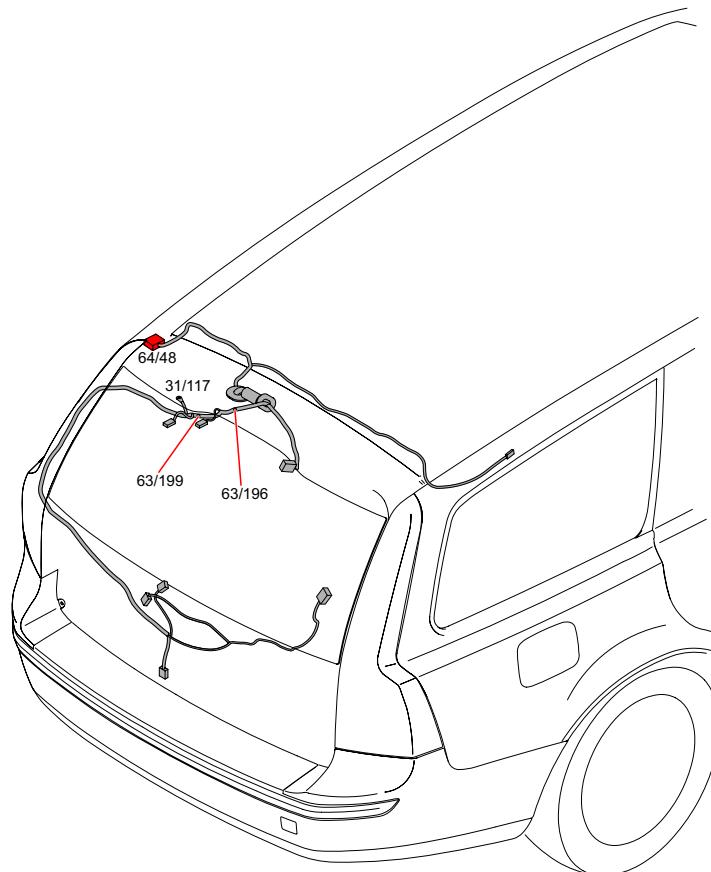
Cable harnesses' routing in the vehicle
Harness Rear door, left



Cable harnesses' routing in the vehicle
Harness Trunk, S40



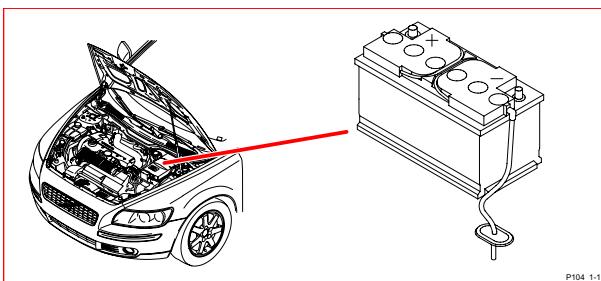
Cable harnesses' routing in the vehicle
Harness Tailgate, V50



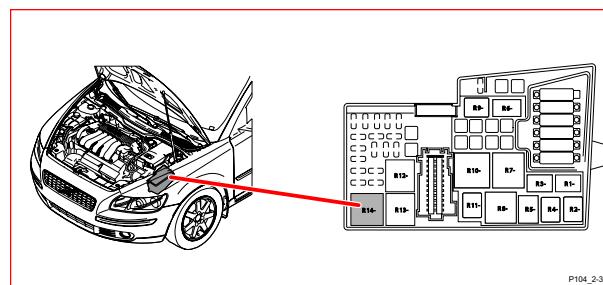
Component illustrations

1/1 - 2/64

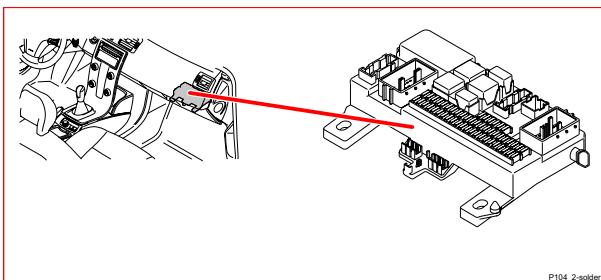
1/1 Battery



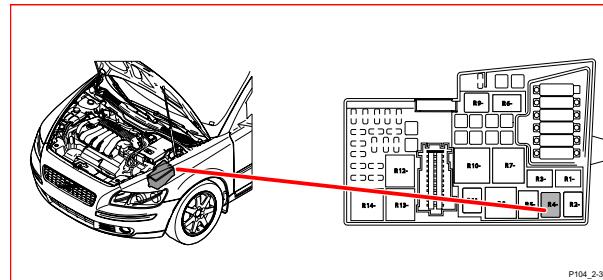
2/32 Main relay, engine management system



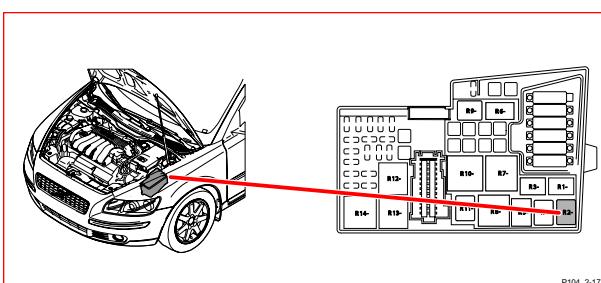
2/16 Relay, rear window wiper



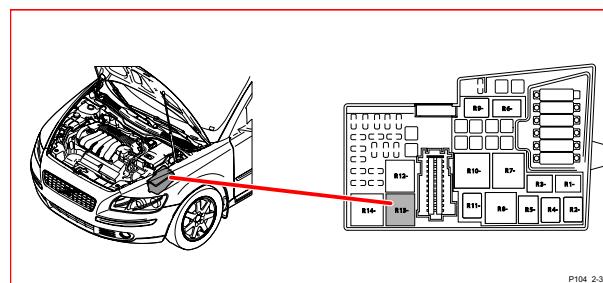
2/34 Relay, front fog lights



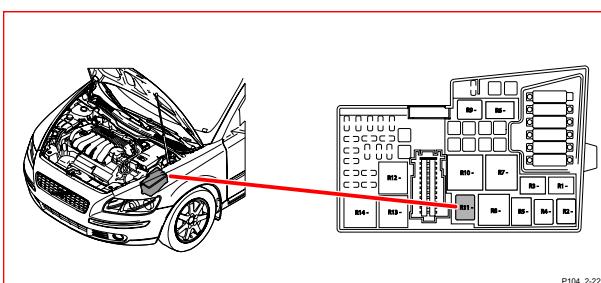
2/17 Relay, horn



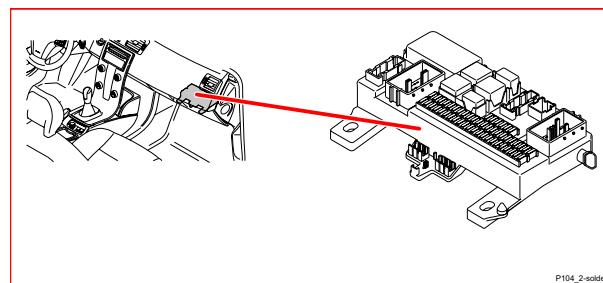
2/35 Relay, starter motor



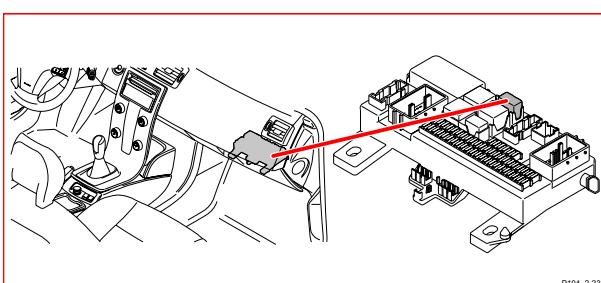
2/22 Relay, climate control system



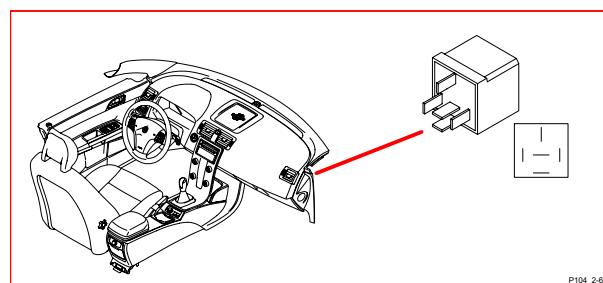
2/63 Relay, high beam



2/23 Relay fuel pump



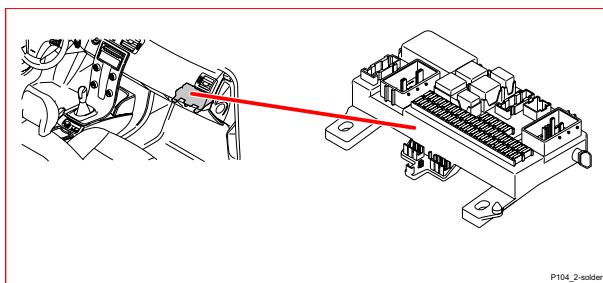
2/64 Relay, auxiliary light (accessory)



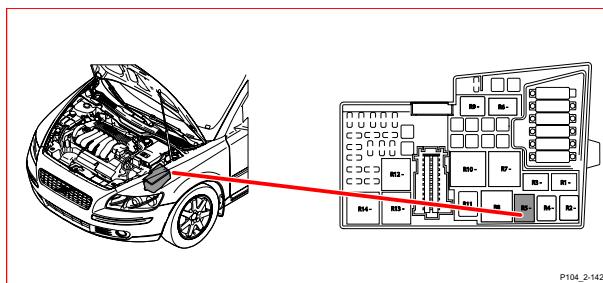
Component illustrations

2/80 - 2/192

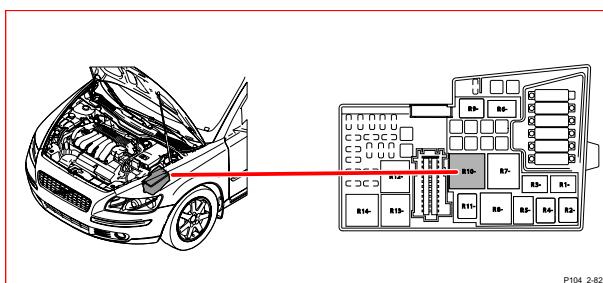
2/80 Relay, reversing lights



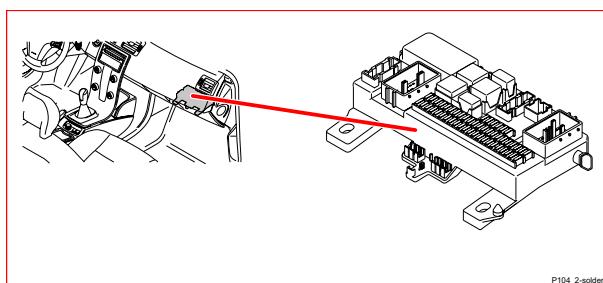
2/142 Relay, pre-heater, fuel filter



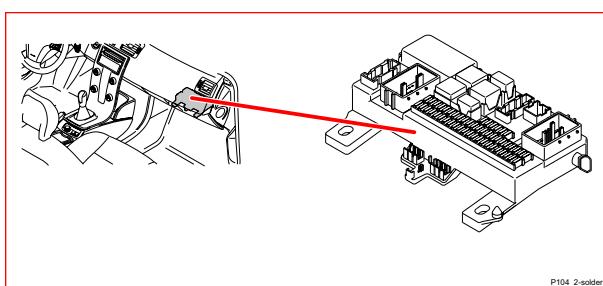
2/82 Relay, heated rear window



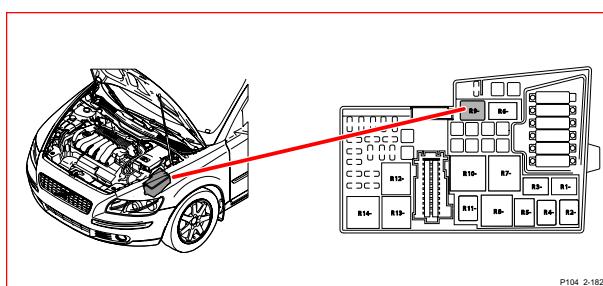
2/159 Relay, infotainment



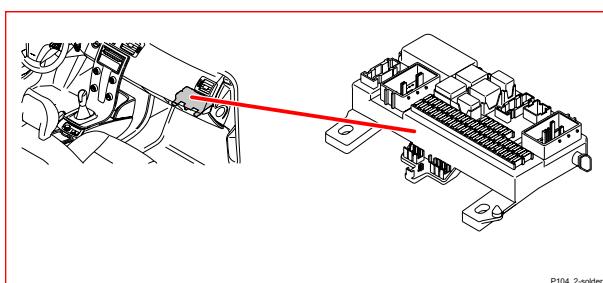
2/89 Relay, interior lighting



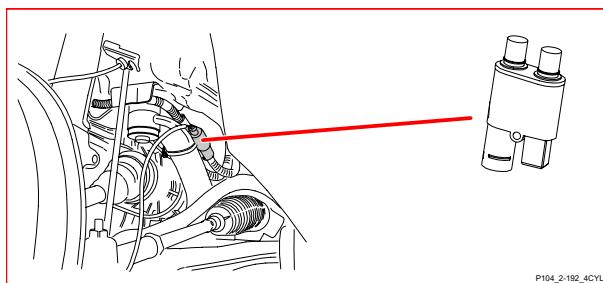
2/182 Relay, headlight washer motor



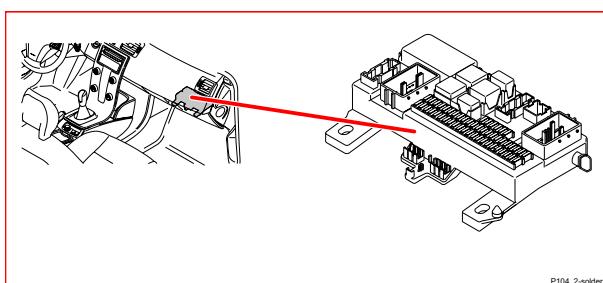
2/92 Relay, windshield washer motor



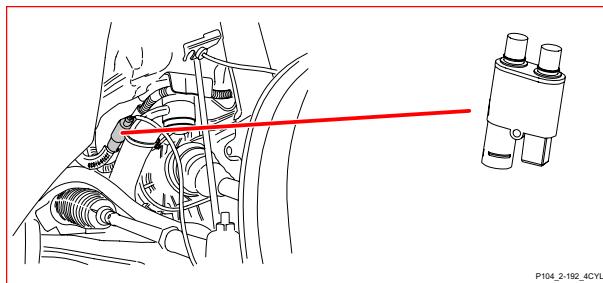
2/192 Relay (230V) electric engine heater, 4-CYL



2/93 Relay, rear window washer motor



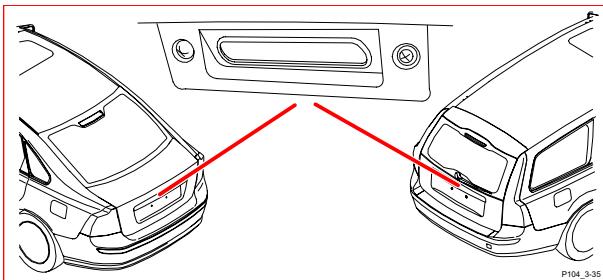
2/192 Relay (230V) electric engine heater, 5-CYL



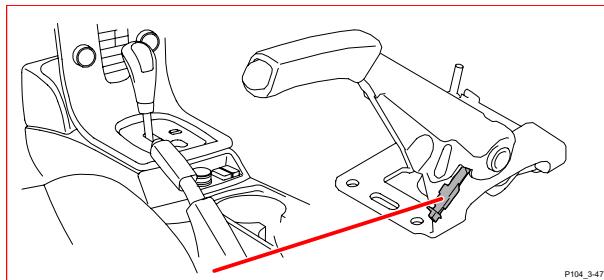
Component illustrations

3/35 - 3/75

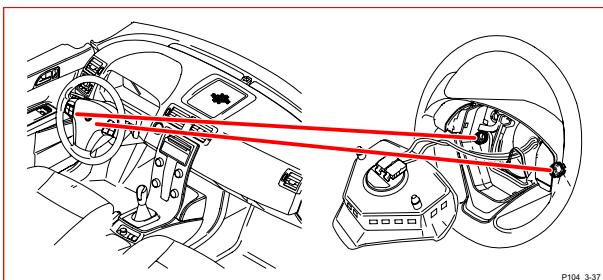
3/35 Switch, handle trunk/tailgate



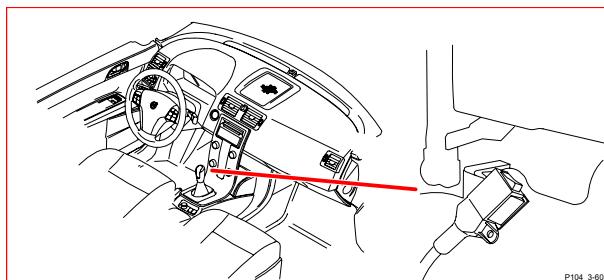
3/47 Parking brake contact



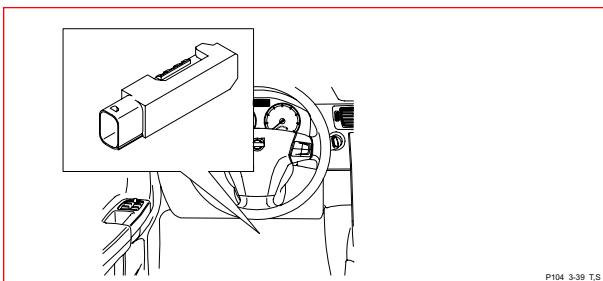
3/37 Contact horn



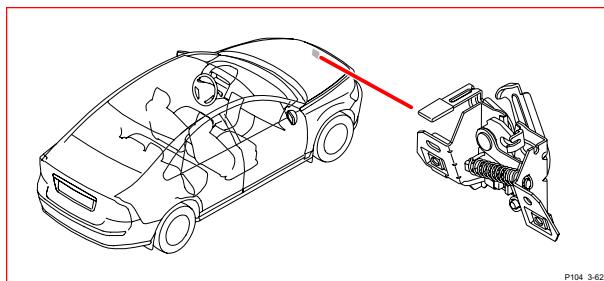
3/60 Switch, auxiliary lights



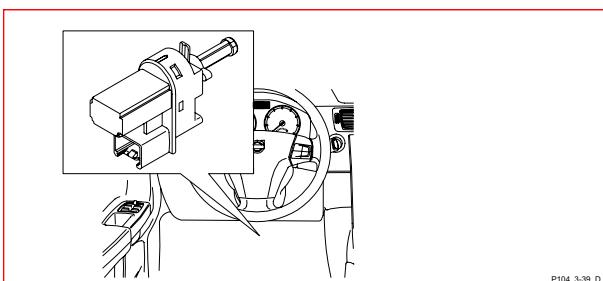
3/39 Contact clutch pedal, Gasoline



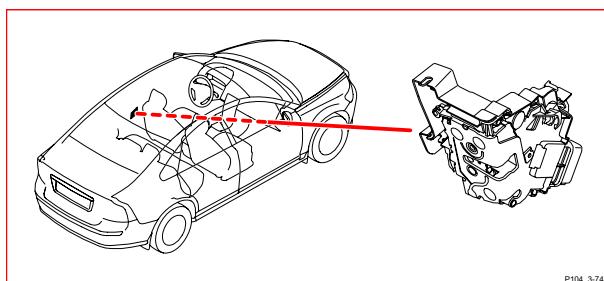
3/62 Hood alarm contact



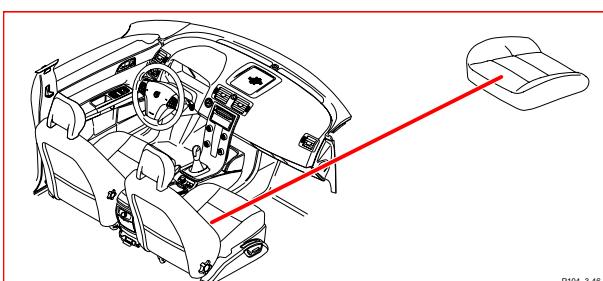
3/39 Contact clutch pedal, Diesel



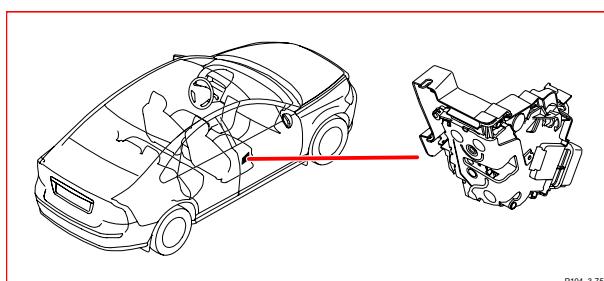
3/74 Lock unit, driver's door



3/46 Seat contact, passenger seat



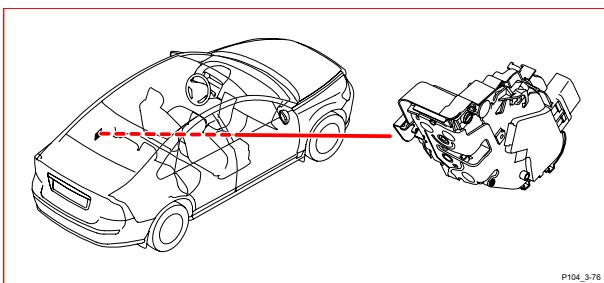
3/75 Lock unit, passenger door



Component illustrations

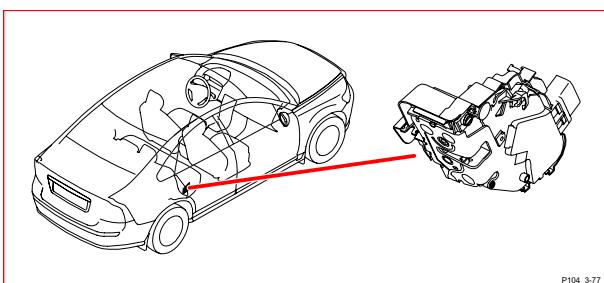
3/76 - 3/93

3/76 Lock unit, left rear door



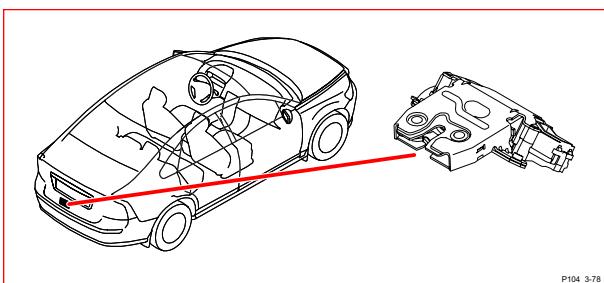
P104_3-76

3/77 Lock unit, right rear door



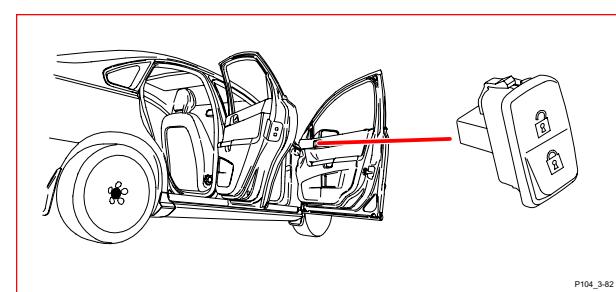
P104_3-77

3/78 Lock unit, trunk lid/tailgate



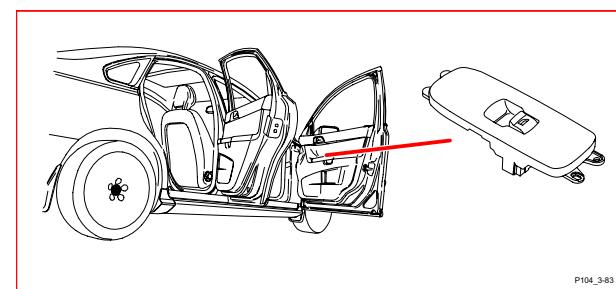
P104_3-78

3/82 Switch, central locking passenger door



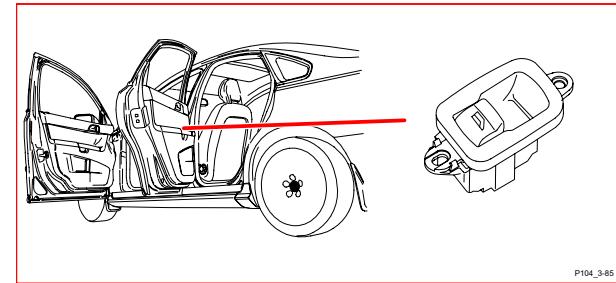
P104_3-82

3/83 Switch, power window passenger door



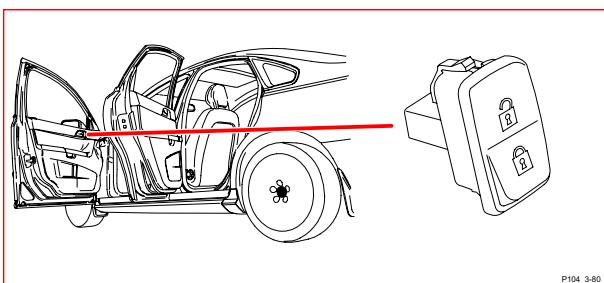
P104_3-83

3/85 Power window switch, left rear door



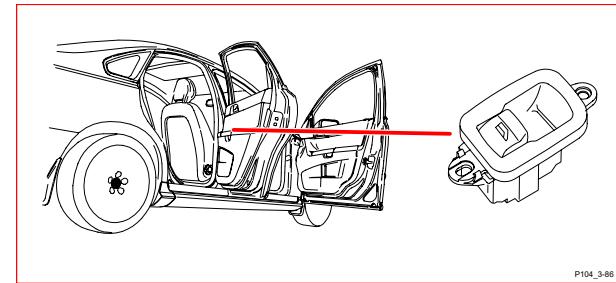
P104_3-85

3/80 Switch, central locking driver's door



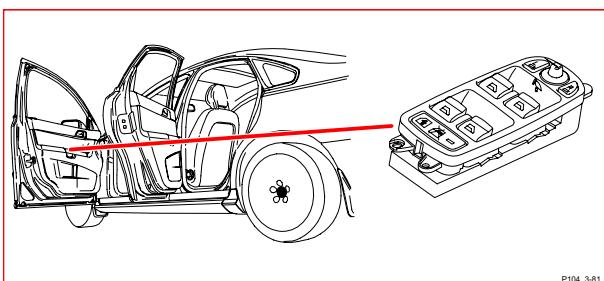
P104_3-80

3/86 Power window switch, right rear door



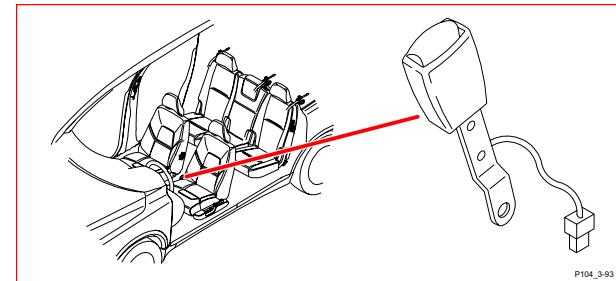
P104_3-86

3/81 Switch, power windows driver's door



P104_3-81

3/93 Contact belt buckle, driver's seat

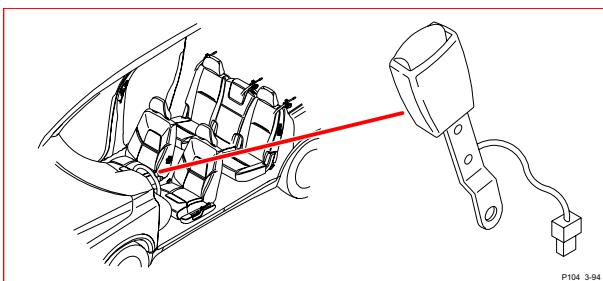


P104_3-93

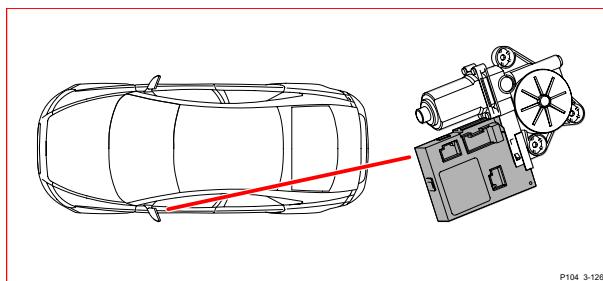
Component illustrations

3/94 - 3/155

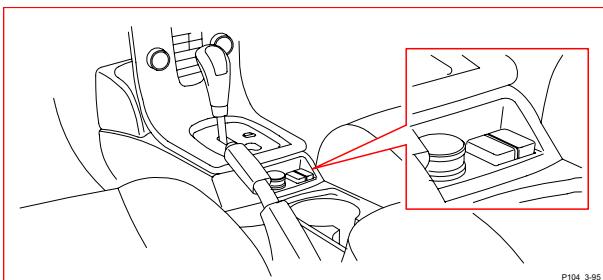
3/94 Contact belt buckle, passenger seat



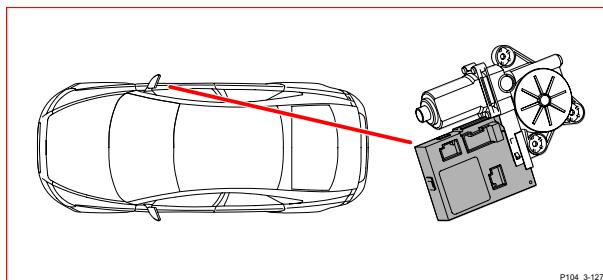
3/126 Driver's Door Module (DDM)



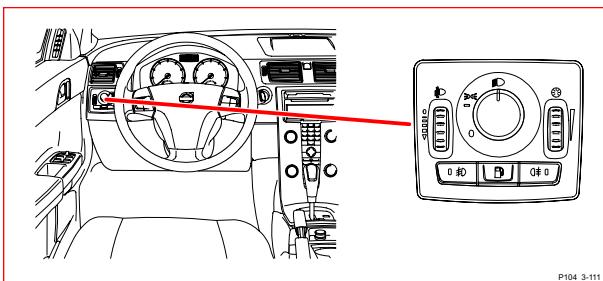
3/95 Spin control switch



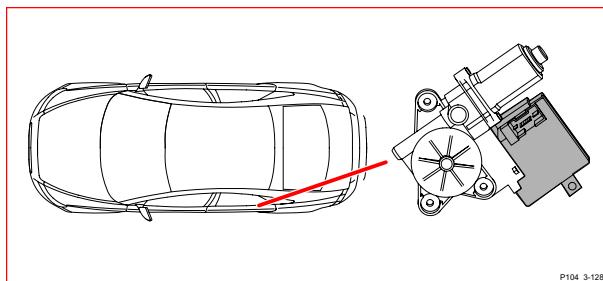
3/127 Passenger Door Module (PDM)



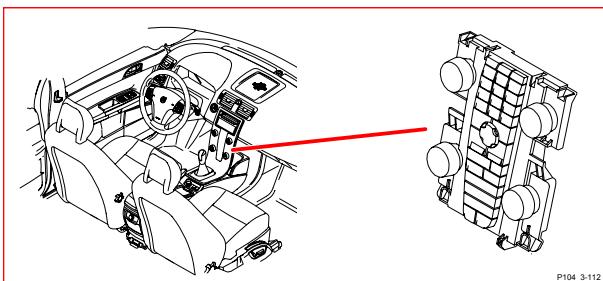
3/111 Switch unit, lights



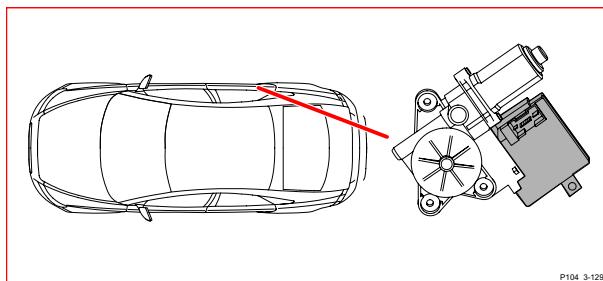
3/128 Left Rear Door Module (LDM)



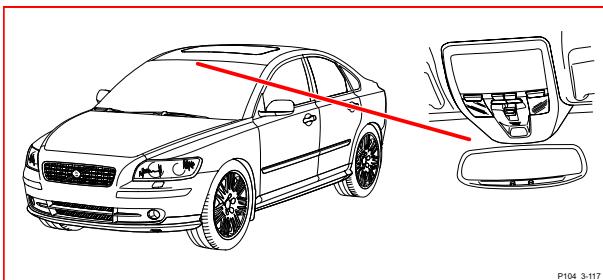
3/112 Climate Control Module (CCM)



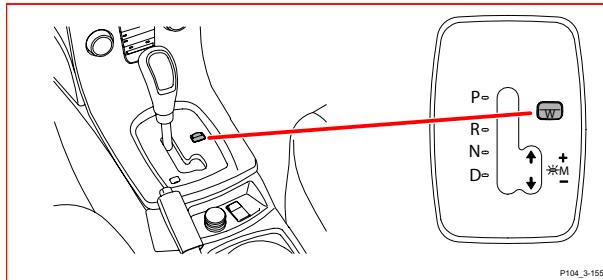
3/129 Right Rear Door Module (RDM)



3/117 Switch unit, ceiling light



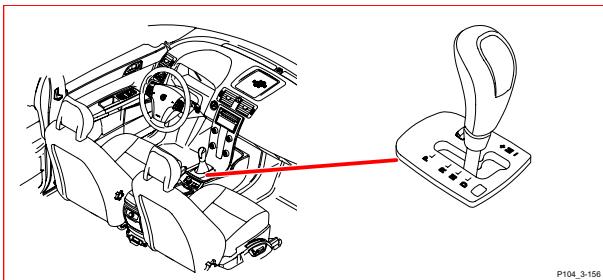
3/155 Program selector, automatic transmission



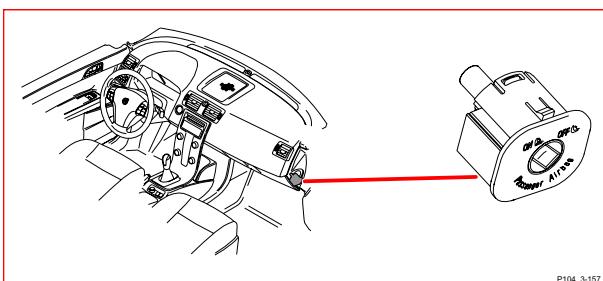
Component illustrations

3/156 - 3/256

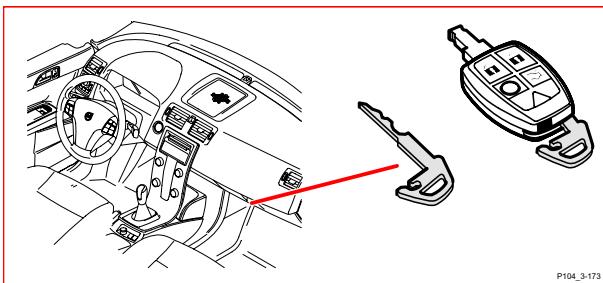
3/156 Gear Selector Module (GSM)



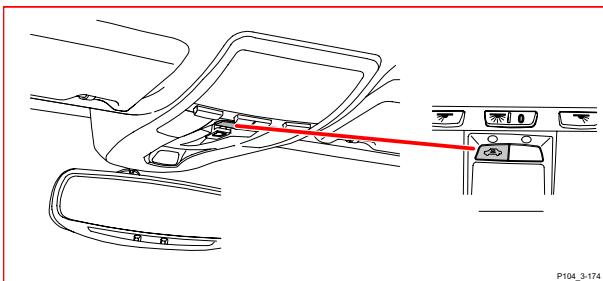
3/157 Switch, Passenger Airbag Cut Off Switch (PACOS)



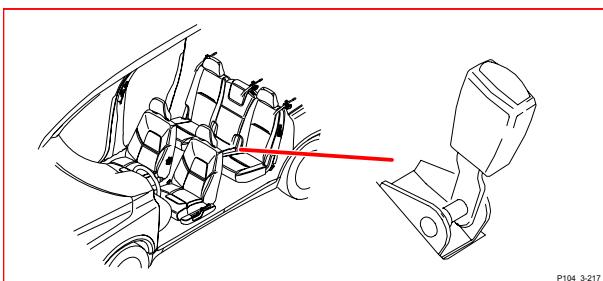
3/173 Switch, trunk lid/tailgate private lock



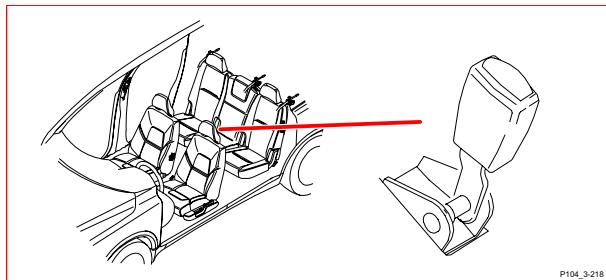
3/174 Switch, reduced alarm



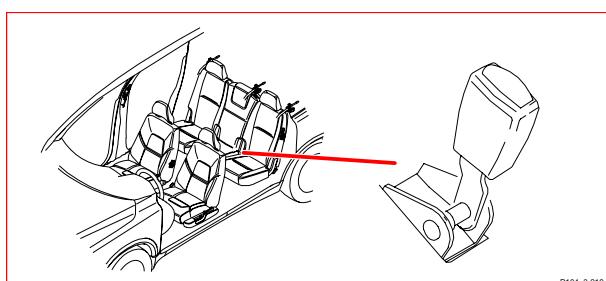
3/217 Belt buckle contact, left rear



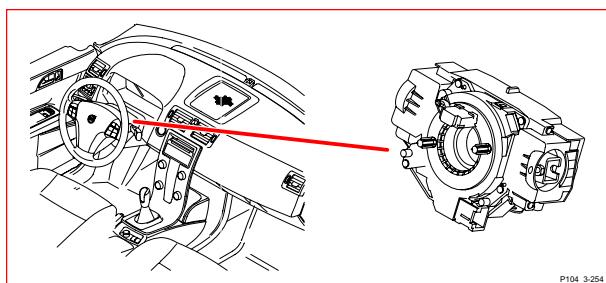
3/218 Belt buckle contact, center rear



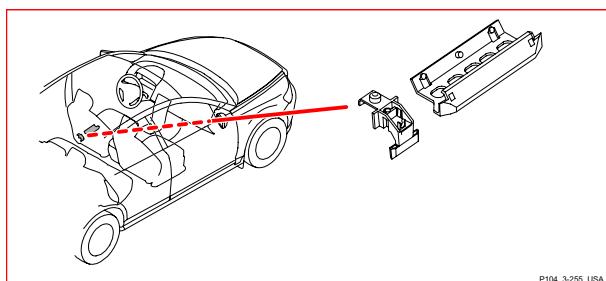
3/219 Belt buckle contact, right rear



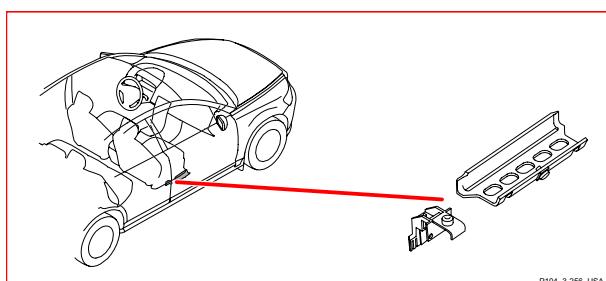
3/254 Steering Wheel Module (SWM)



3/255 Position sensor, driver's seat



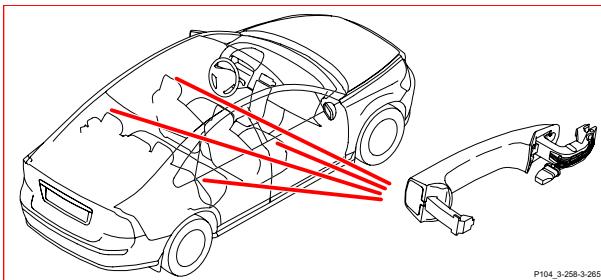
3/256 Position sensor, passenger seat



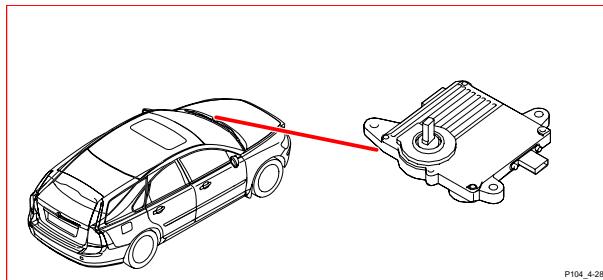
Component illustrations

3/258 - 4/46

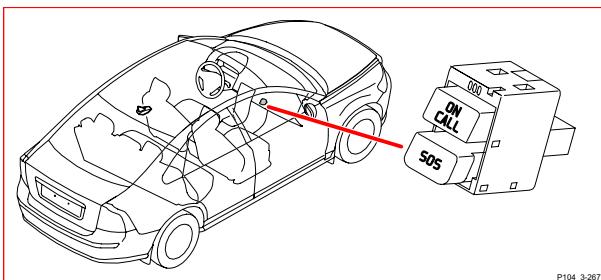
3/258-3/265 Contact, locking



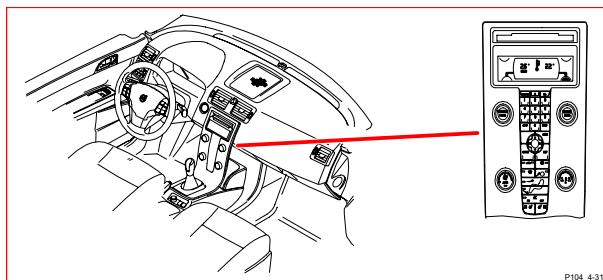
4/28 Transmission Control Module (TCM)



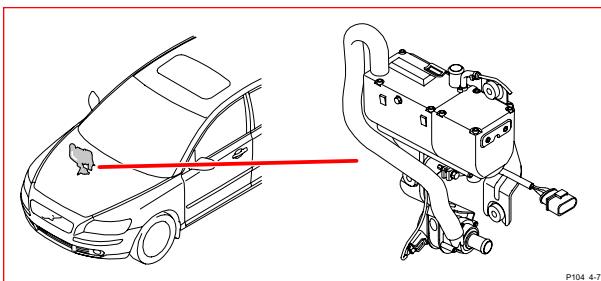
3/267 Control unit, telematics



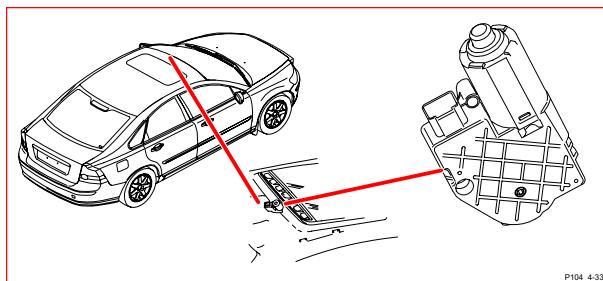
4/31 Fan control module



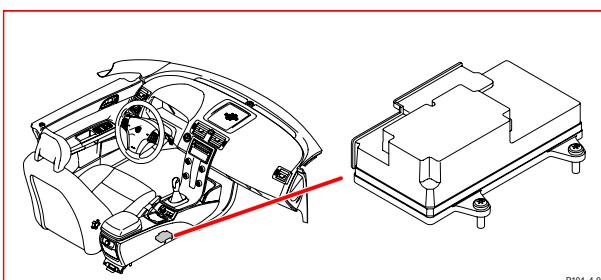
4/7 Combustion Preheater Module (CPM)



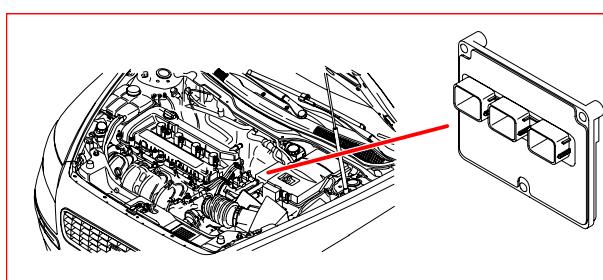
4/33 Sunroof control module



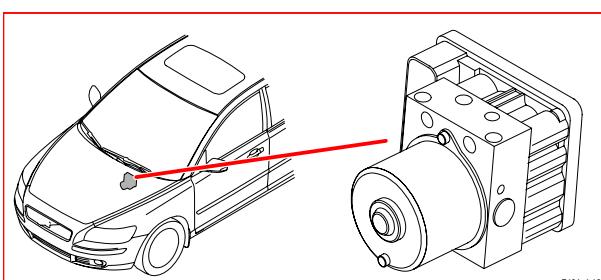
4/9 Supplemental Restraint System Module (SRS)



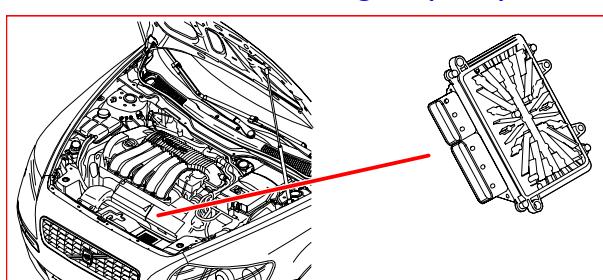
4/46 Control module engine (ECM), 4-CYL



4/16 Brake Control Module (BCM)



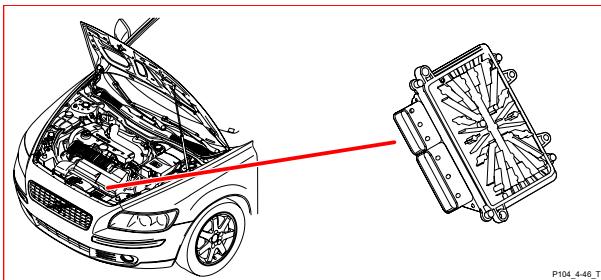
4/46 Control module engine (ECM), 5-CYL



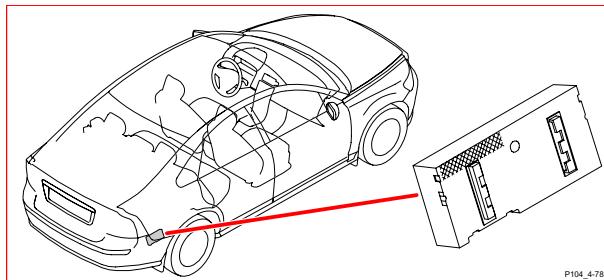
Component illustrations

4/46 - 4/93

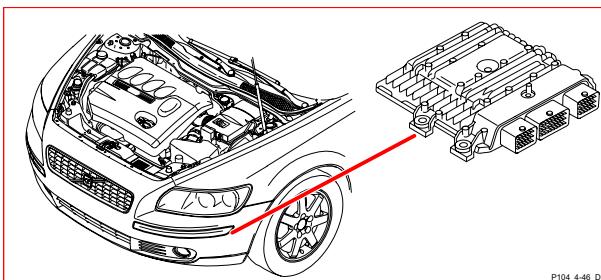
4/46 Control module engine (ECM), Turbo



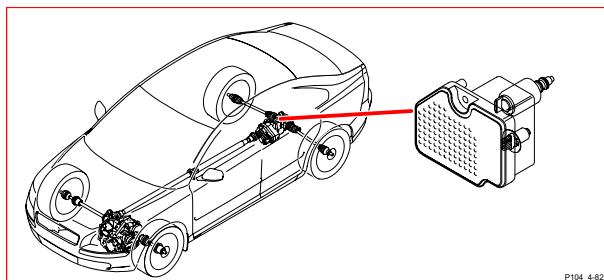
4/78 Accessory Electronic Module (AEM)



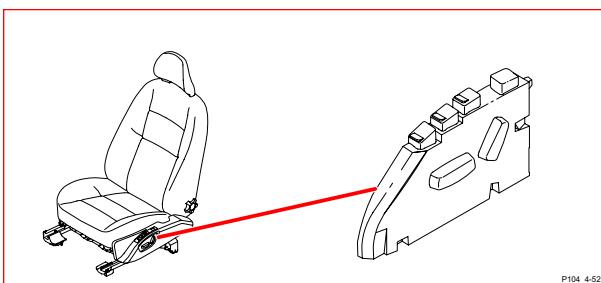
4/46 Engine Control Module (ECM), Diesel



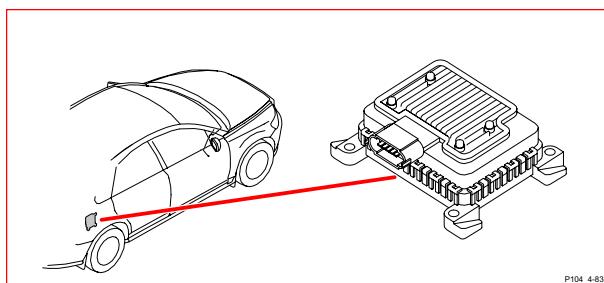
4/82 Differential Electronic Module (DEM)



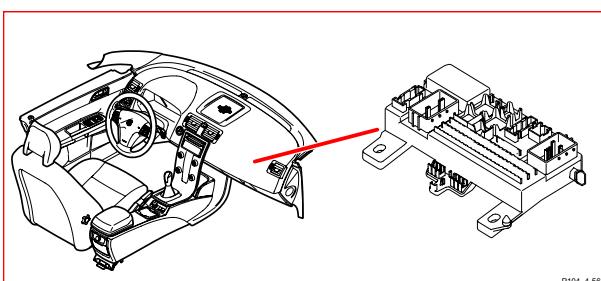
4/52 Power Seat Module (PSM)



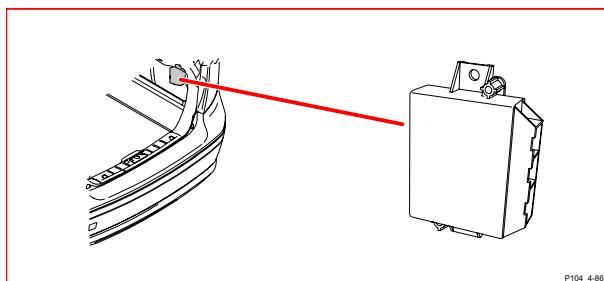
4/83 Control module fuel pump



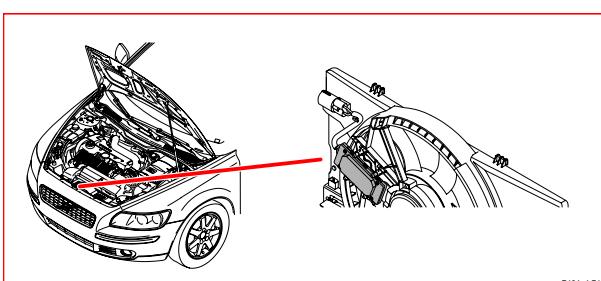
4/56 Central Electronic Module (CEM)



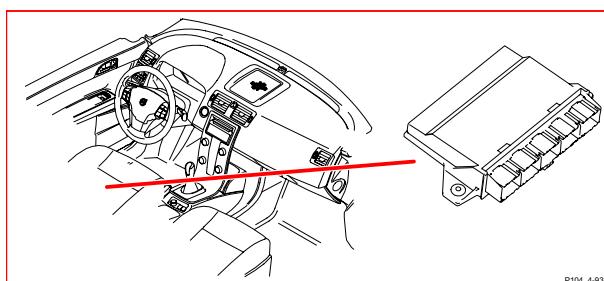
4/86 Control module, Parking Assistance Module (PAM)



4/71 Cooling fan control module



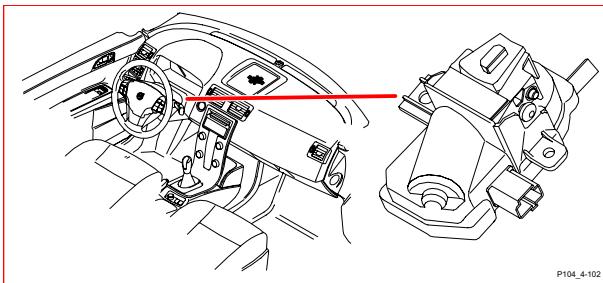
4/93 Keyless Vehicle Module (KVM)



Component illustrations

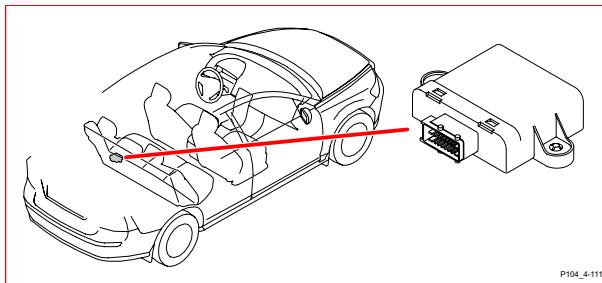
4/102 - 6/1

4/102 Steering Column Lock Module (SCL)



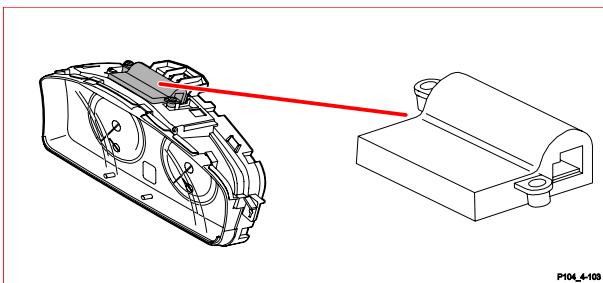
P104_4-102

4/111 Additive Dosing Module (ADM)



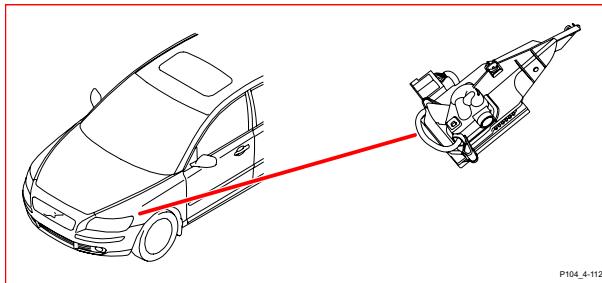
P104_4-111

4/103 Remote Entry (RRX)



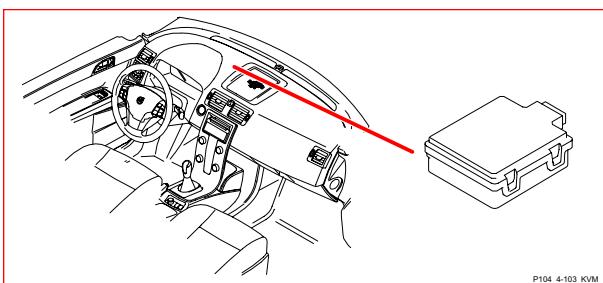
P104_4-103

4/112 Control module, gas discharge lamp master, left



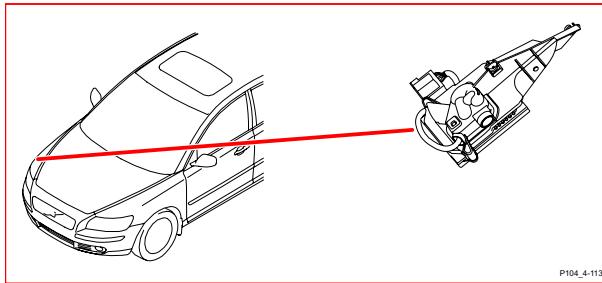
P104_4-112

4/103 Remote Entry (RRX), Keyless vehicle



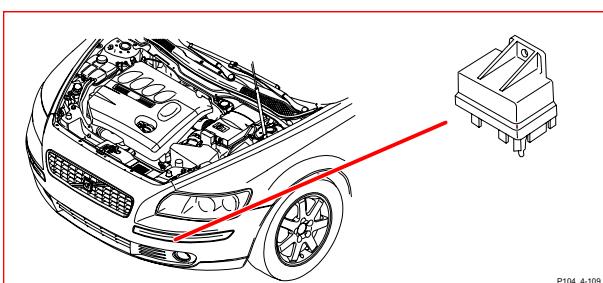
P104_4-103_KVM

4/113 Control module, gas discharge lamp slave, right



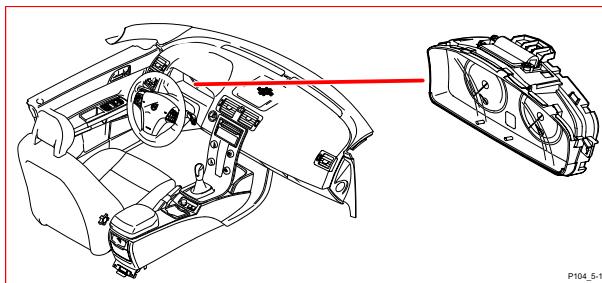
P104_4-113

4/109 Glow plug control module



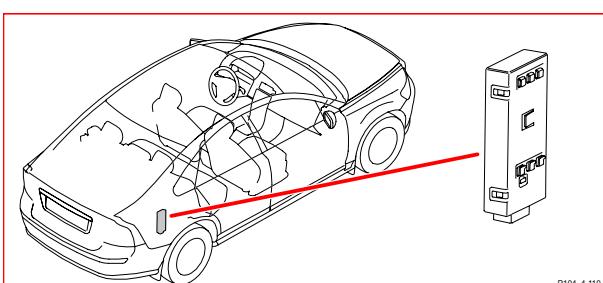
P104_4-109

5/1 Driver Information Module (DIM)



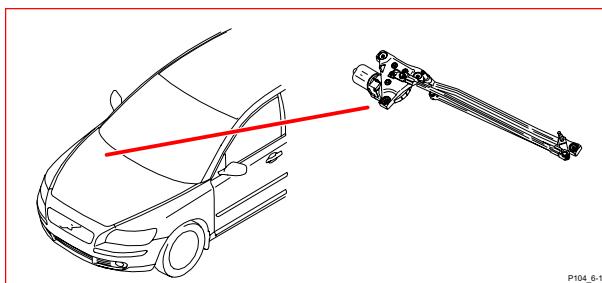
P104_5-1

4/110 Trailer Module (TRM)



P104_4-110

6/1 Wiper Motor Module (WMM)

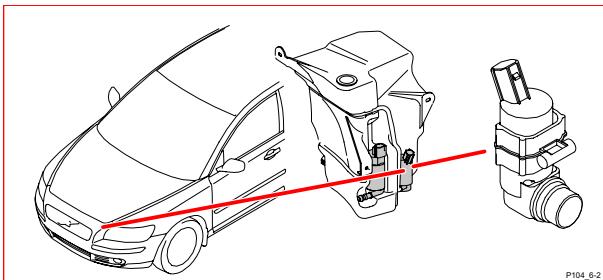


P104_6-1

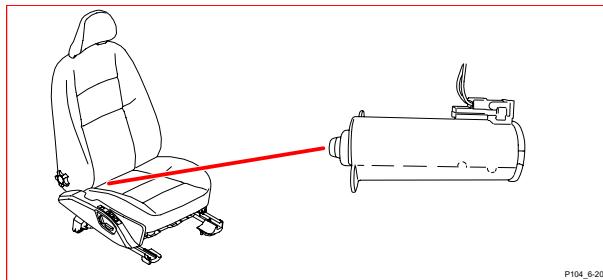
Component illustrations

6/2 - 6/29

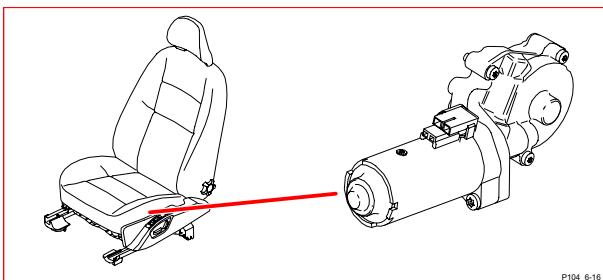
6/2 Washer pump



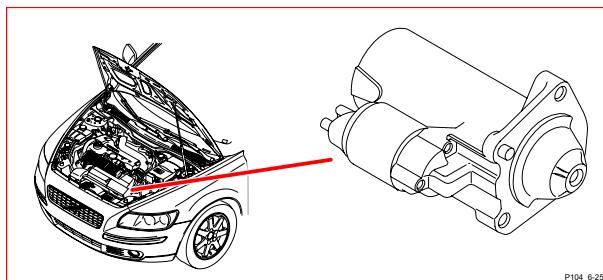
6/20 Motor passenger seat, fore/aft



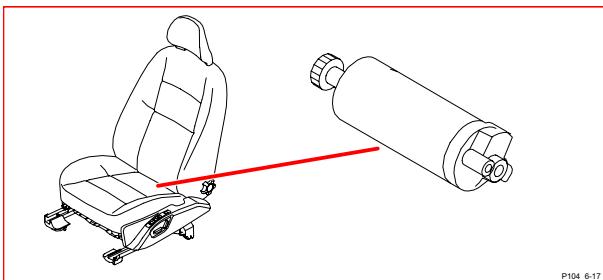
6/16 Motor driver's seat, backrest angle



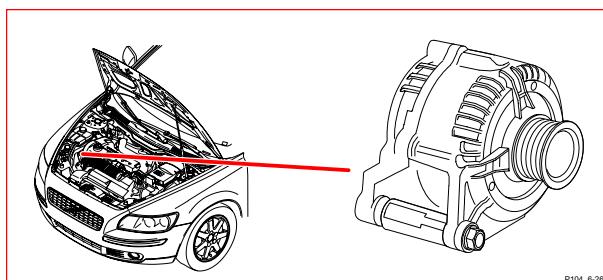
6/25 Starter motor



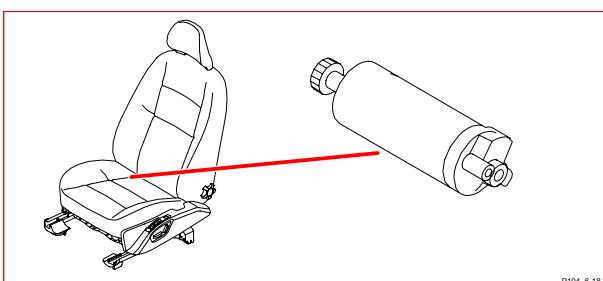
6/17 Motor driver's seat, up/down front edge



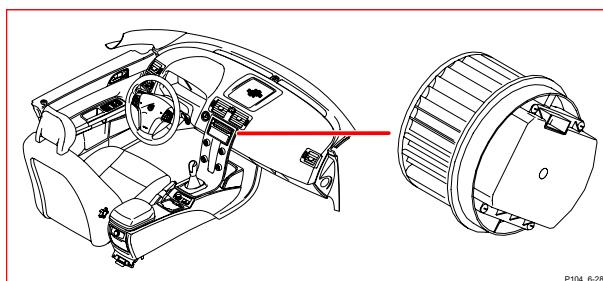
6/26 Alternator



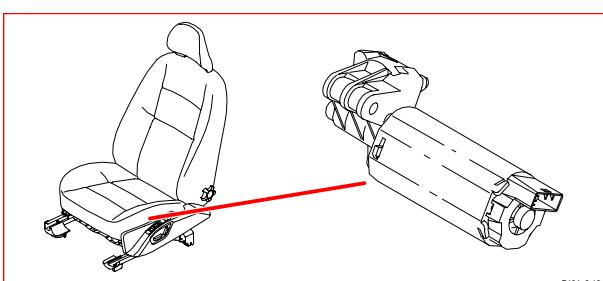
6/18 Motor driver's seat, up/down rear edge



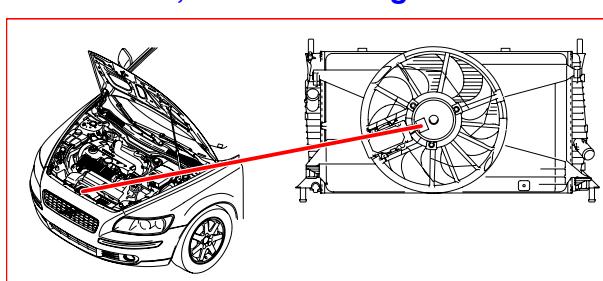
6/28 Motor, passenger compartment fan



6/19 Motor driver's seat, fore/aft



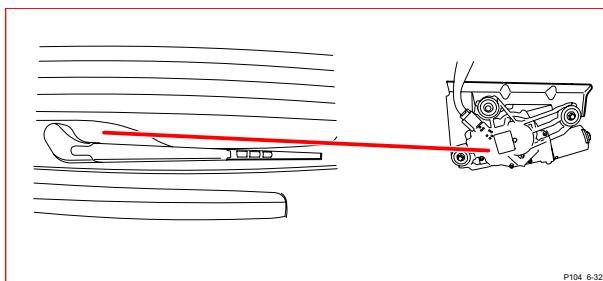
6/29 Motor, electric cooling fan



Component illustrations

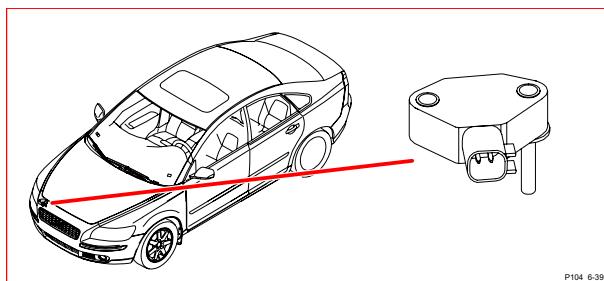
6/32 - 6/64

6/32 Rear window wiper motor



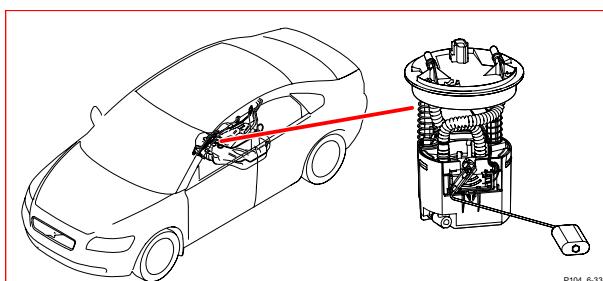
P104_6-32

6/39 Motor, right headlight adjustment



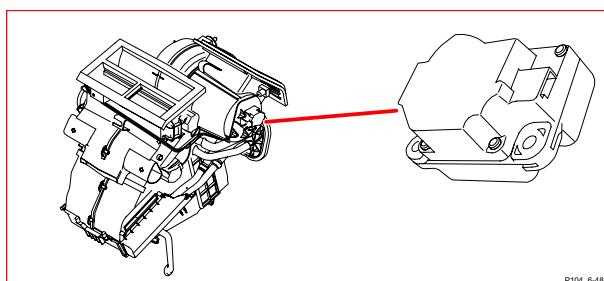
P104_6-39

6/33 Fuel pump



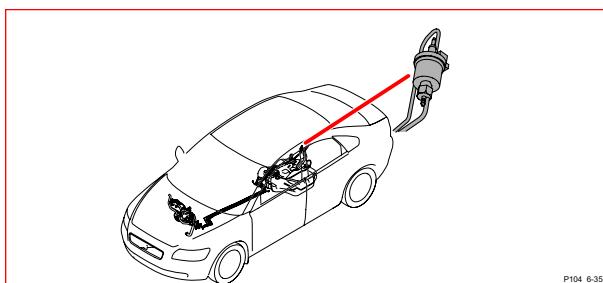
P104_6-33

6/48 Damper motor, recirculation



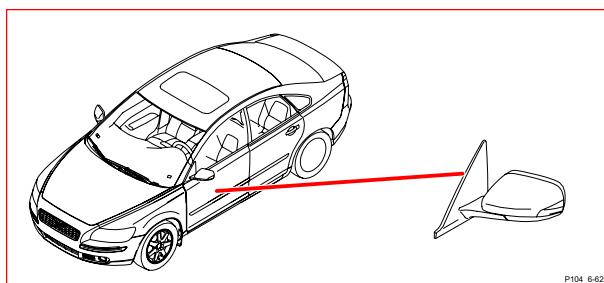
P104_6-48

6/35 Fuel pump, auxiliary heater



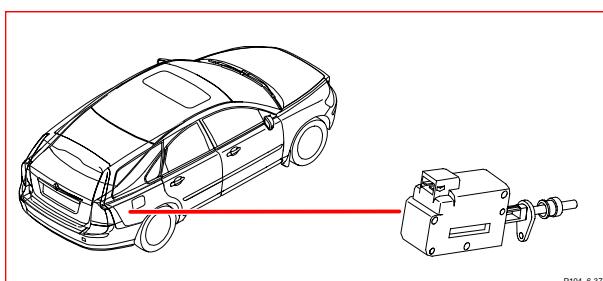
P104_6-35

6/62 Power rear-view mirror driver's door



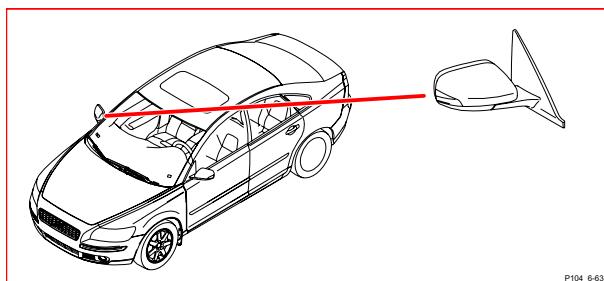
P104_6-62

6/37 Lock motor, fuel filler flap



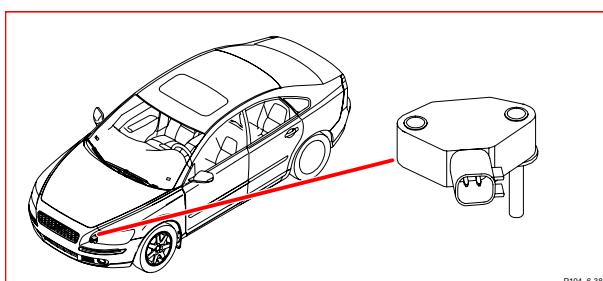
P104_6-37

6/63 Power rear-view mirror passenger door



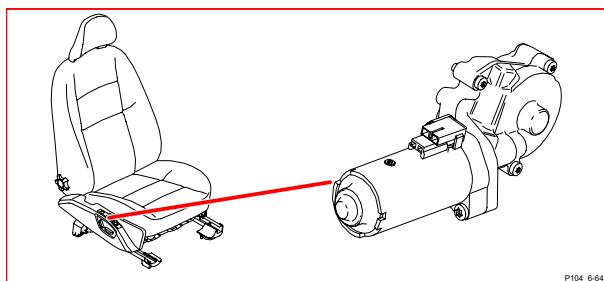
P104_6-63

6/38 Motor, left headlight adjustment



P104_6-38

6/64 Motor passenger seat, backrest angle

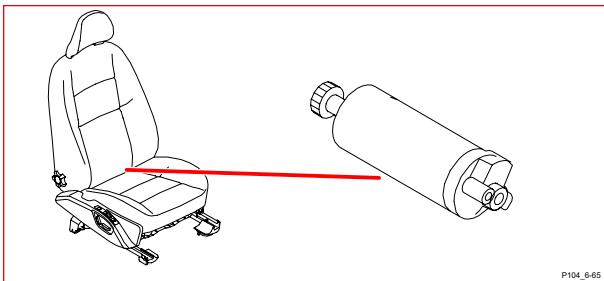


P104_6-64

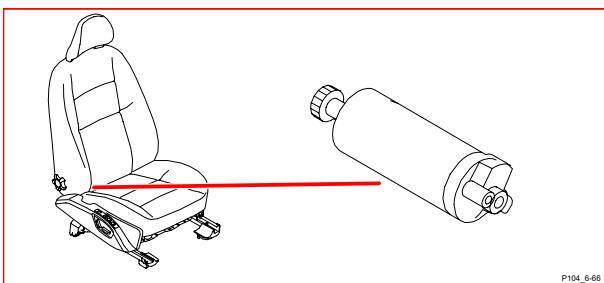
Component illustrations

6/65 - 6/103

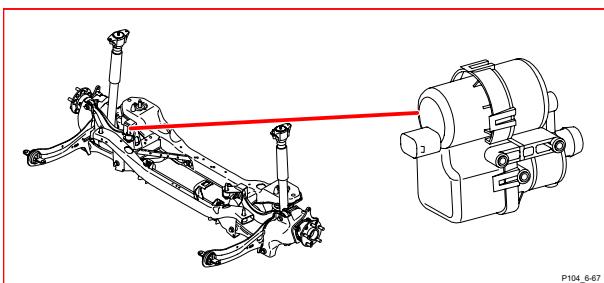
6/65 Motor passenger seat, up/down front edge



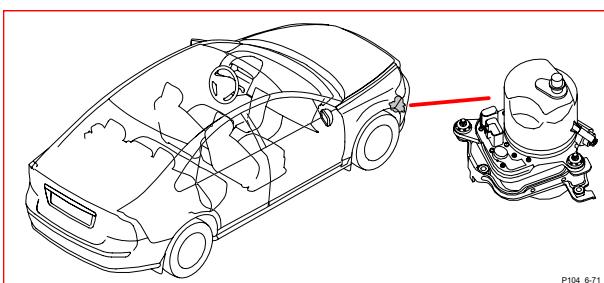
6/66 Motor passenger seat, up/down rear edge



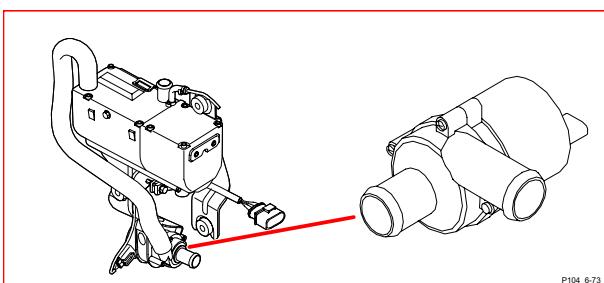
6/67 Pump, fuel leakage control



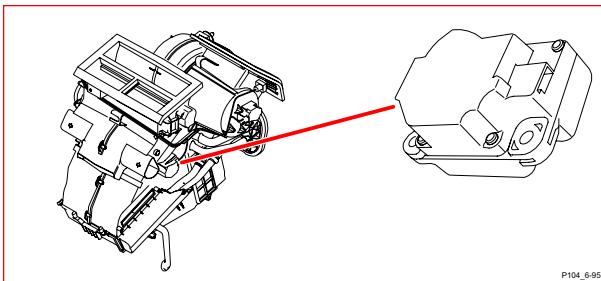
6/71 Electrical Power Steering Module (EPS)



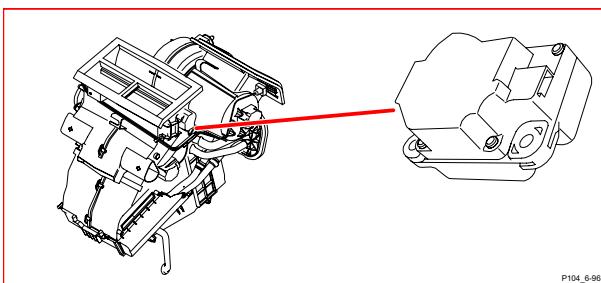
6/73 Coolant pump, auxiliary heater



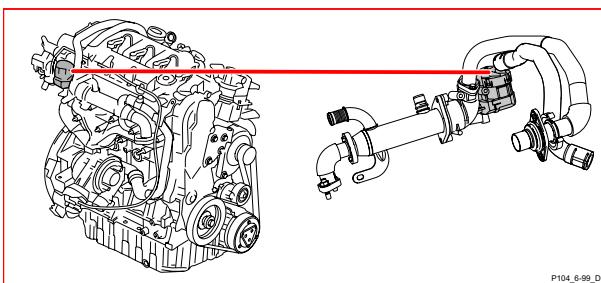
6/95 Damper motor, temperature, left-hand side



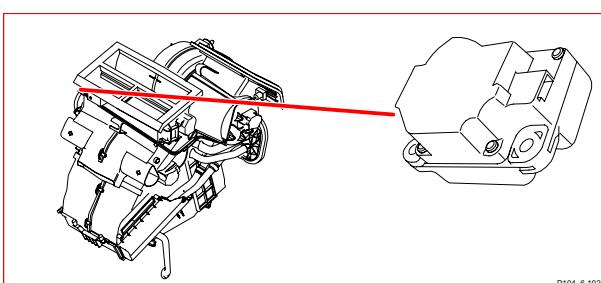
6/96 Damper motor, temperature, right-hand side



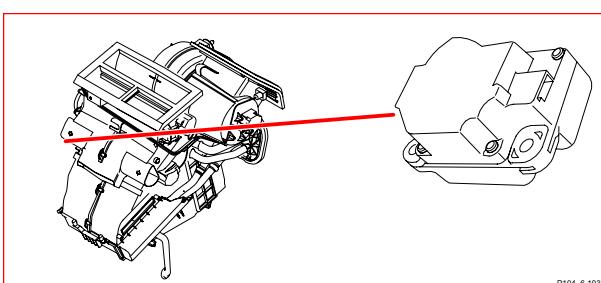
6/99 Engine EGR



6/102 Damper motor, defroster



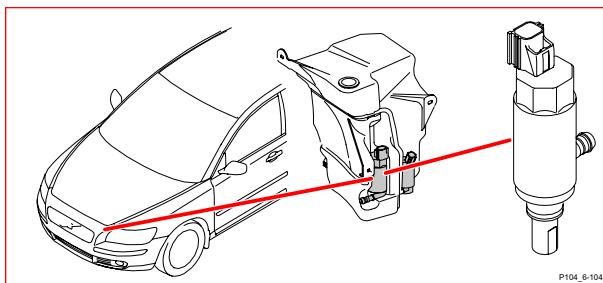
6/103 Damper motor, floor/ventilation



Component illustrations

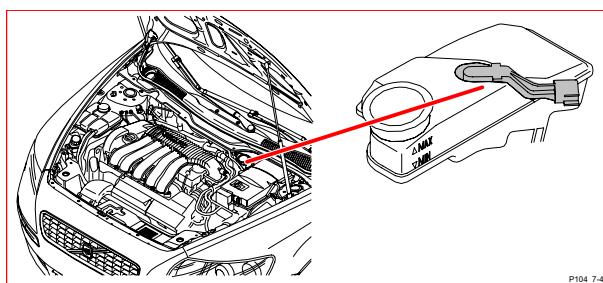
6/104 - 7/6

6/104 Pump, high pressure headlight washer



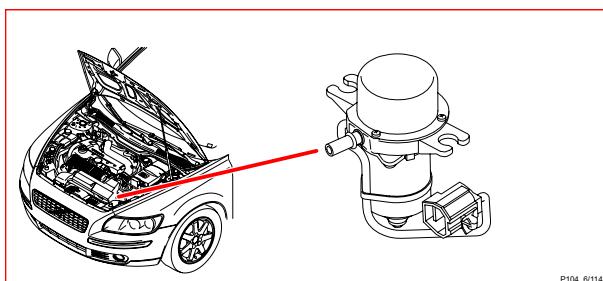
P104_6-104

7/4 Brake fluid level sensor



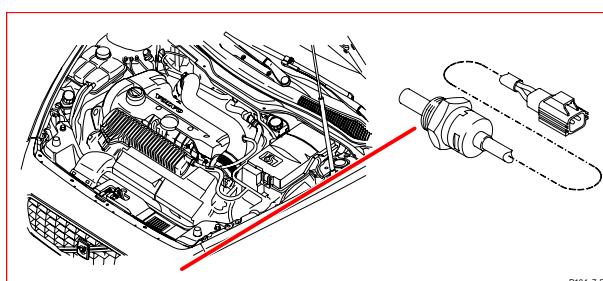
P104_7-4

6/114 Vacuum pump



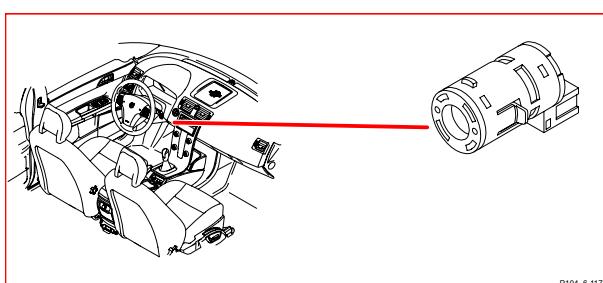
P104_6/114

7/5 Washer fluid level sensor



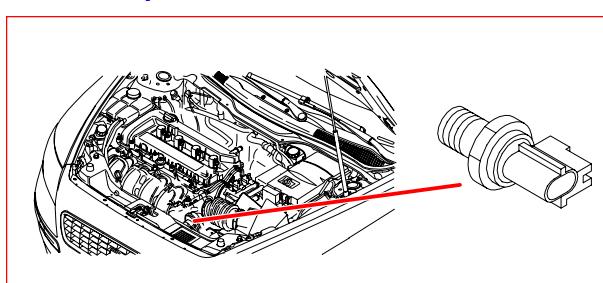
P104_7-5

6/117 Interior temperature sensor



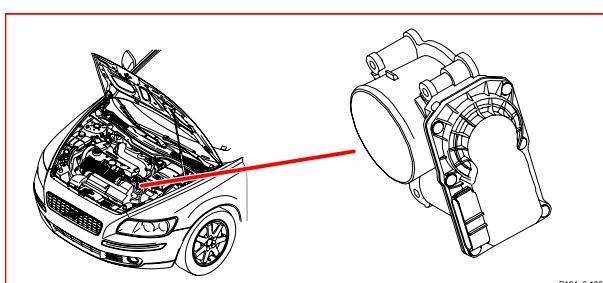
P104_6-117

7/6 Oil pressure monitor, 4-CYL



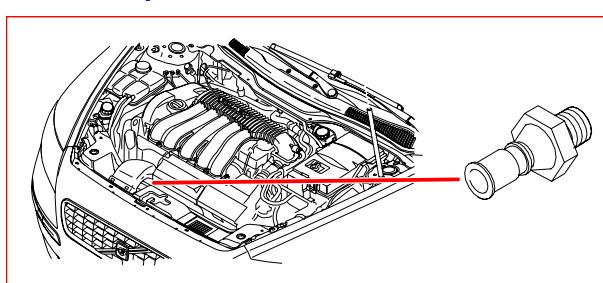
P104_7-6

6/120 Engine throttle body



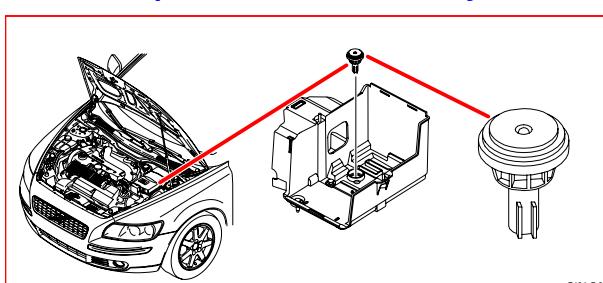
P104_6-120

7/6 Oil pressure monitor, 5-CYL



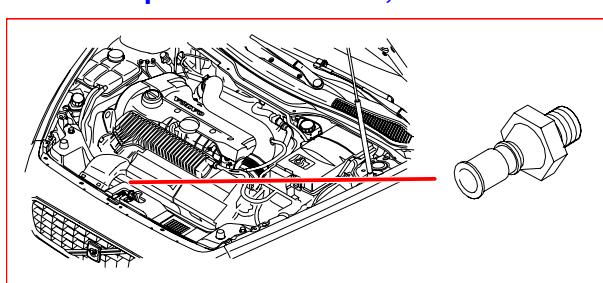
P104_7-6_S

7/3 Temperature sensor battery



P104_7-3

7/6 Oil pressure monitor, Turbo

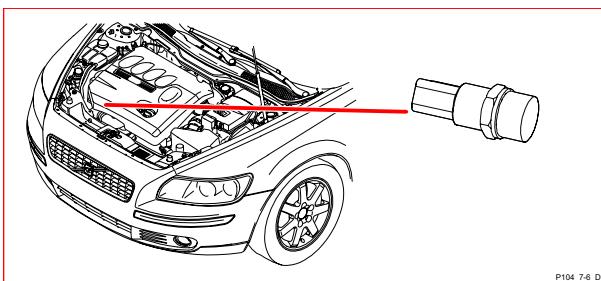


P104_7-6_T

Component illustrations

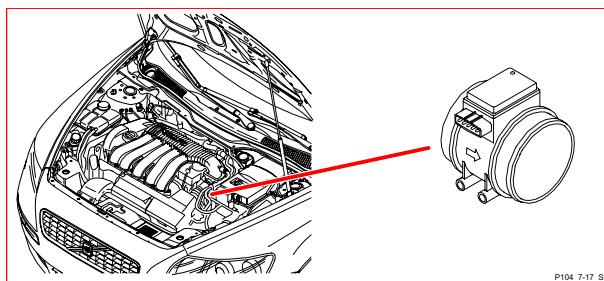
7/6 - 7/24

7/6 Oil pressure monitor, Diesel



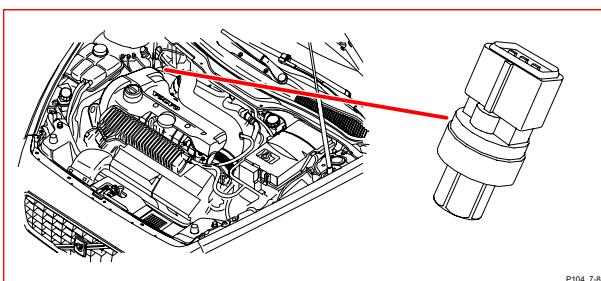
P104_7-6_D

7/17 Mass air flow sensor MAF, 5-CYL



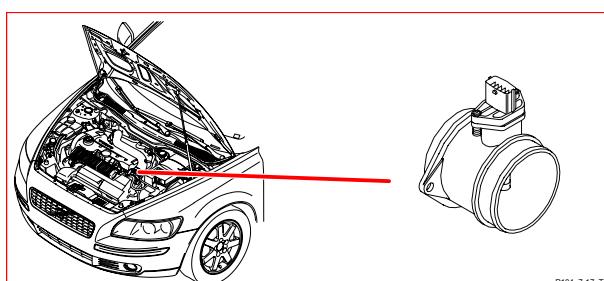
P104_7-17_S

7/8 Pressure sensor, climate control system



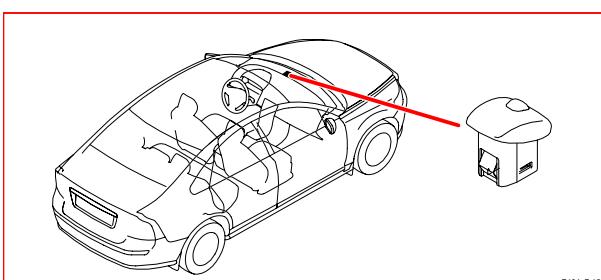
P104_7-8

7/17 Mass air flow sensor MAF, Turbo



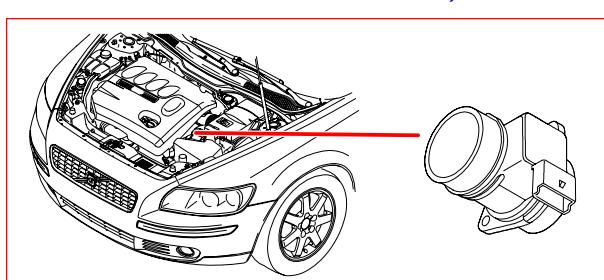
P104_7-17_T

7/12 Solar sensor, twilight sensor and indicator alarm



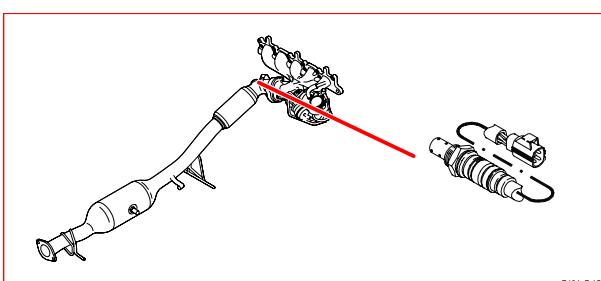
P104_7-12

7/17 Mass airflow sensor MAF, Diesel



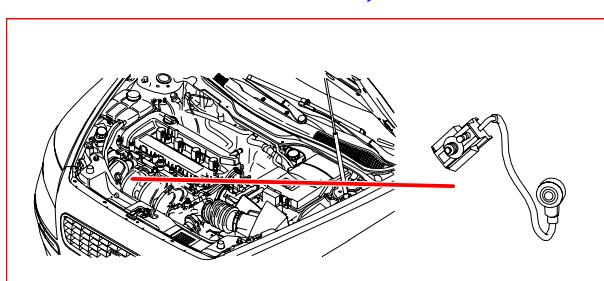
P104_7-17_D

7/15 Heated oxygen sensor, front



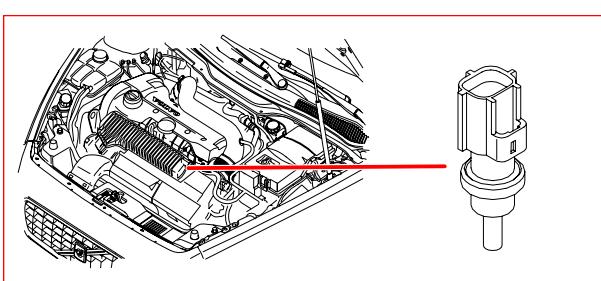
P104_7-15

7/24 Knock sensor front, 4-CYL



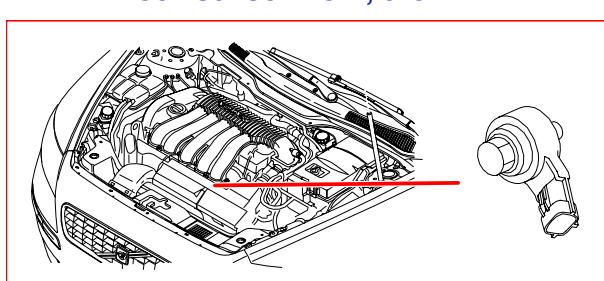
P104_7-24

7/16 Sensor, coolant temperature



P104_7-16

7/24 Knock sensor front, 5-CYL

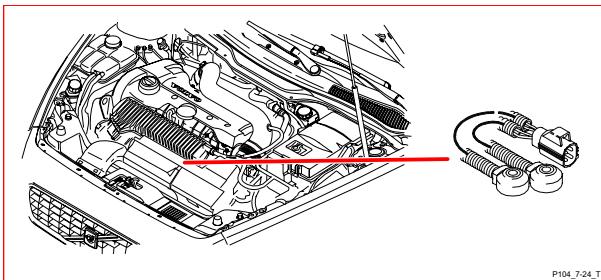


P104_7-24_S

Component illustrations

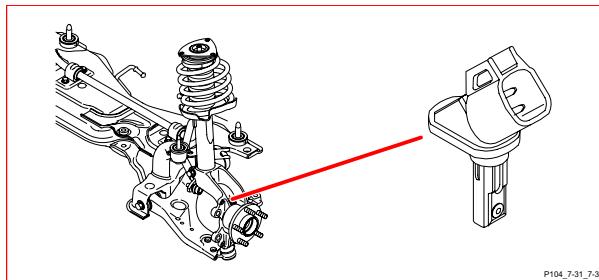
7/24 - 7/56

7/24 Knock sensor front, Turbo



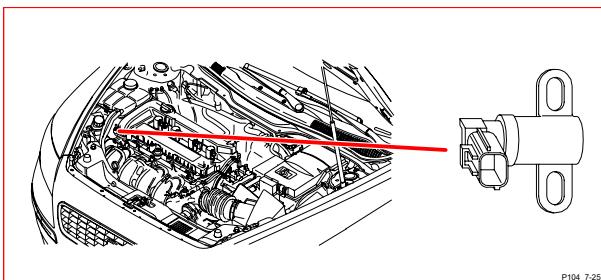
P104_7-24_T

7/31 Sensor ABS, front left



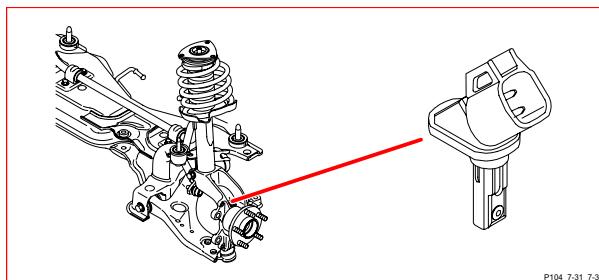
P104_7-31_7-32

7/25 Impulse sensor, 4-CYL



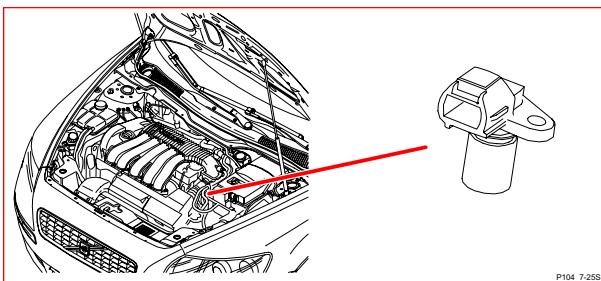
P104_7-25

7/32 Sensor ABS, front right



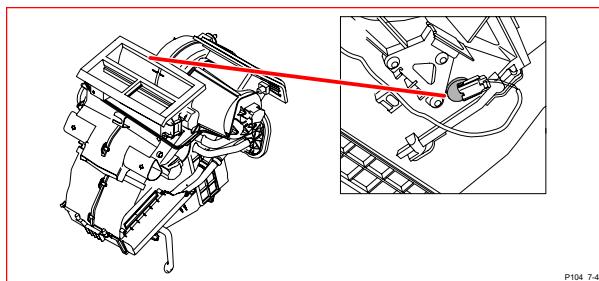
P104_7-31_7-32

7/25 Impulse sensor, 5-CYL



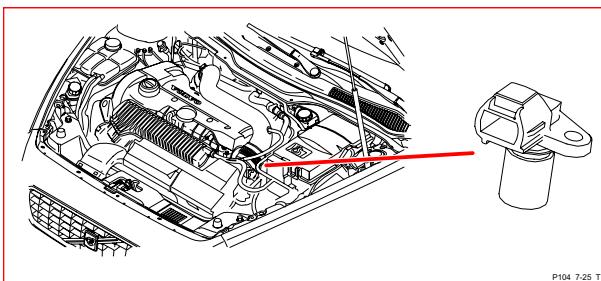
P104_7-25_S

7/41 Temperature sensor evaporator



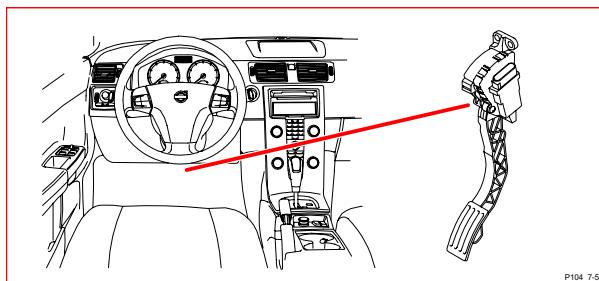
P104_7-41

7/25 Impulse sensor, Turbo



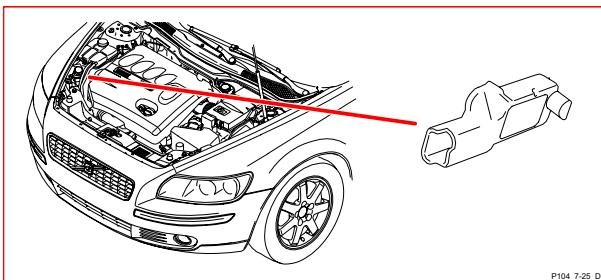
P104_7-25_T

7/51 Accelerator pedal sensor



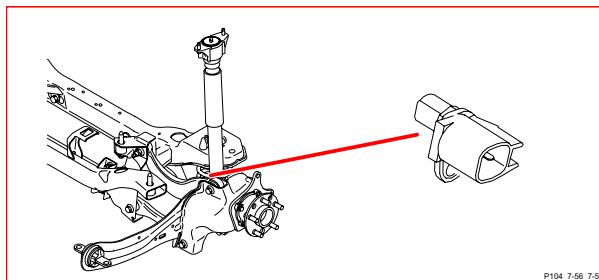
P104_7-51

7/25 Impulse sensor, Diesel



P104_7-25_D

7/56 Sensor ABS, rear left

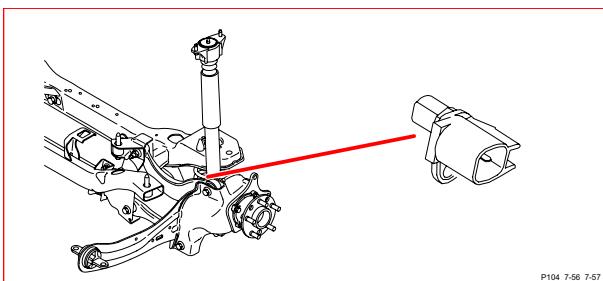


P104_7-56_7-57

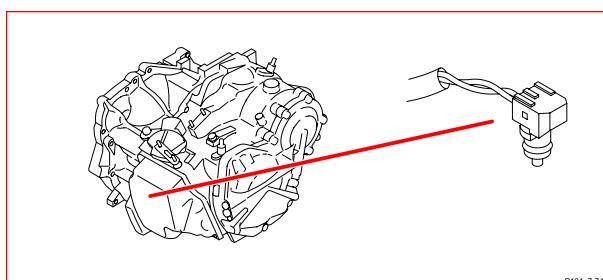
Component illustrations

7/57 - 7/82

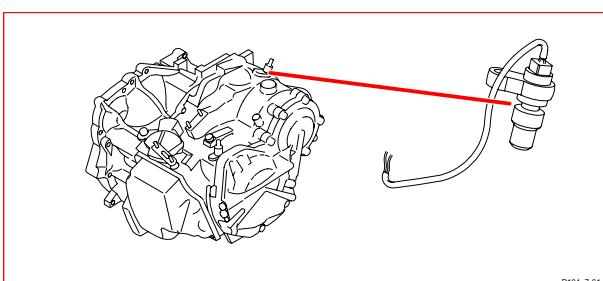
7/57 Sensor ABS, rear right



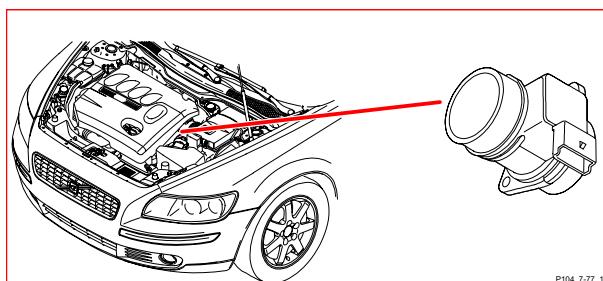
7/74 Sensor oil temperature, automatic transmission



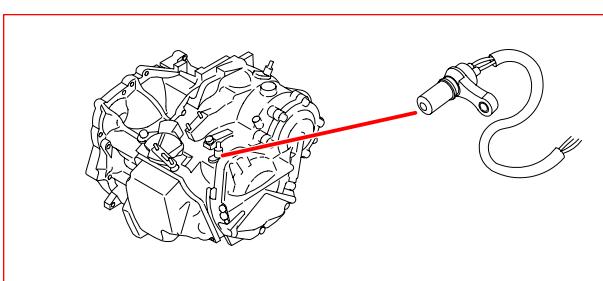
7/61 Sensor input speed



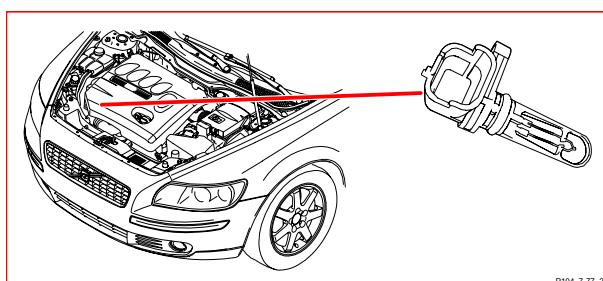
7/77 Temperature sensor, intake air 1



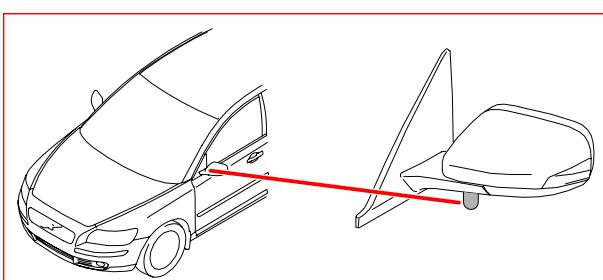
7/62 Sensor output speed



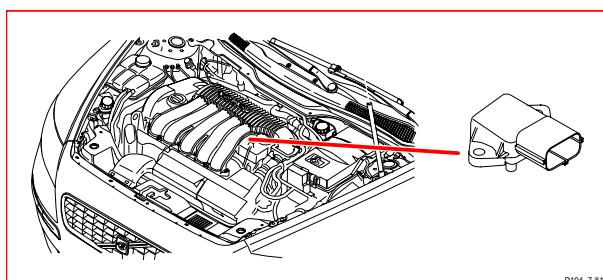
7/77 Temperature sensor, intake air 2



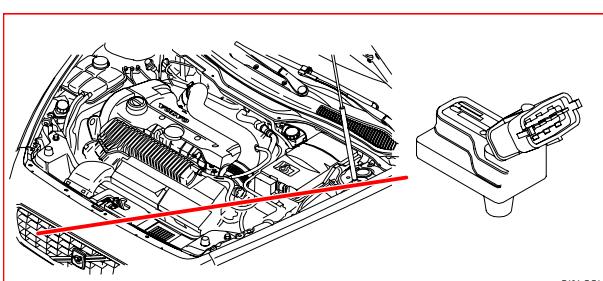
7/69 Sensor outdoor temperature



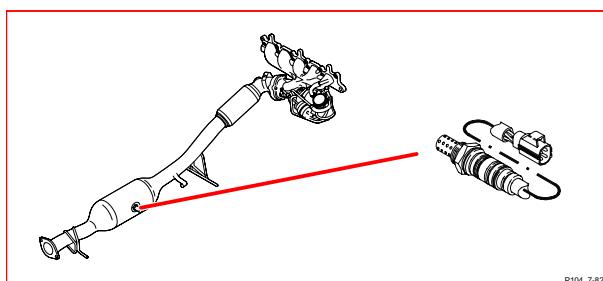
7/81 Pressure sensor, intake manifold



7/71 Sensor boost pressure



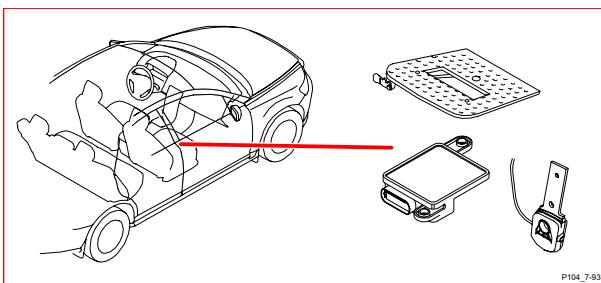
7/82 Heated oxygen sensor, rear



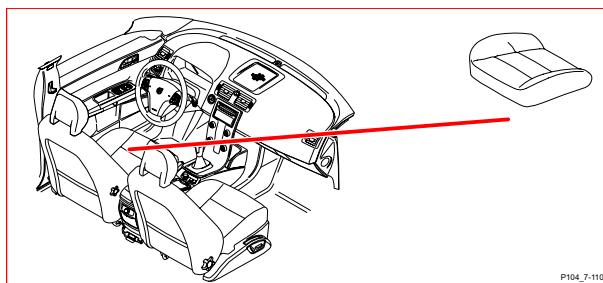
Component illustrations

7/93 - 7/120

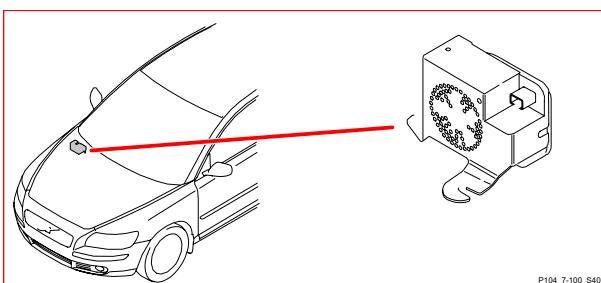
7/93 Occupant Weight Sensor (OWS)



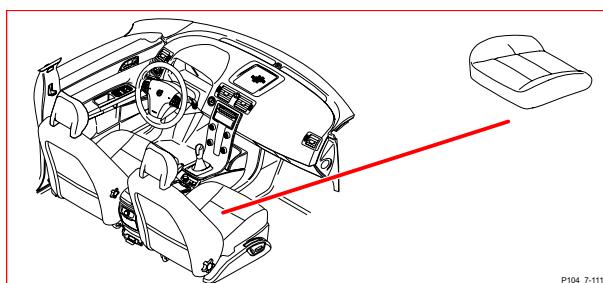
7/110 Sensor temperature driver's seat



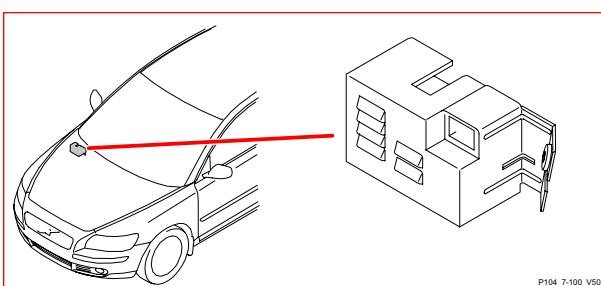
7/100 Level sensor alarm, S40



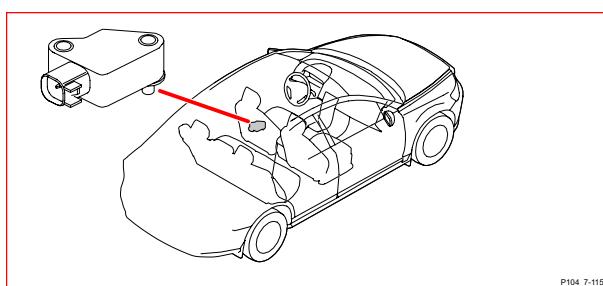
7/111 Sensor temperature passenger seat



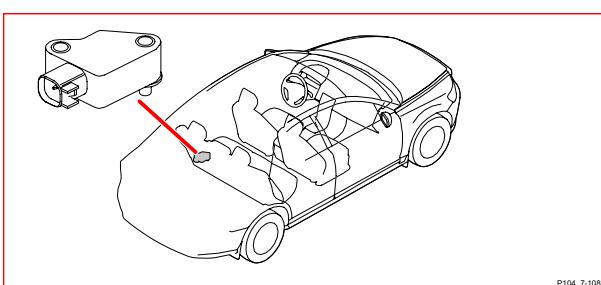
7/100 Level sensor alarm, V50



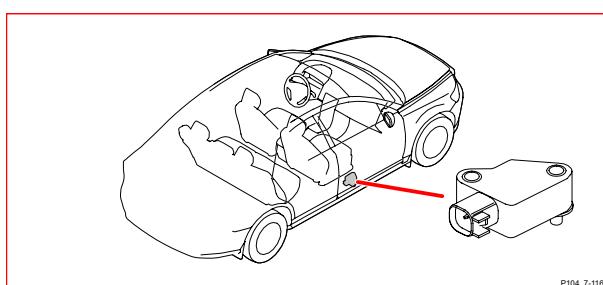
7/115 Side impact sensor, front left



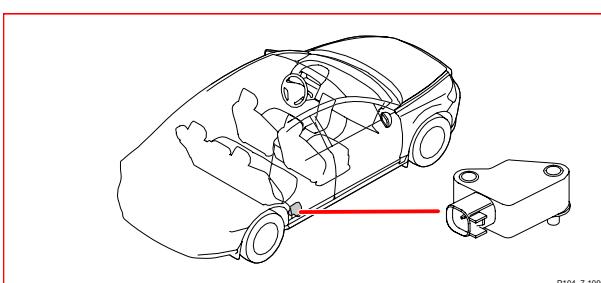
7/108 Side impact sensor, rear left



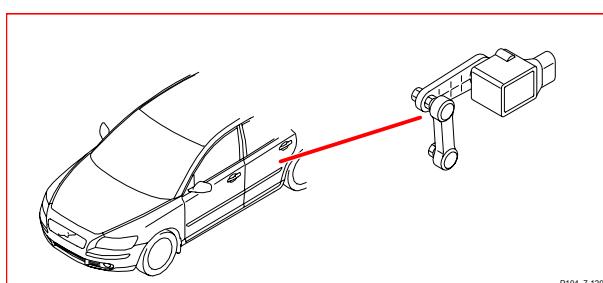
7/116 Side impact sensor, front right



7/109 Side impact sensor, rear right



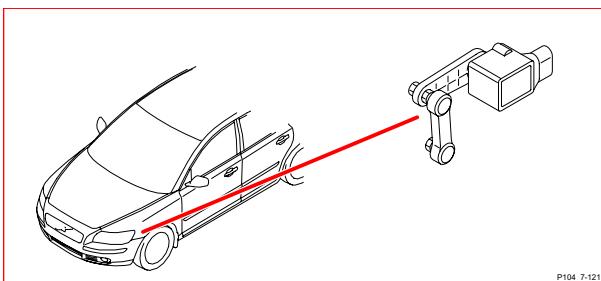
7/120 Angle sensor, Bi-Xenon rear



Component illustrations

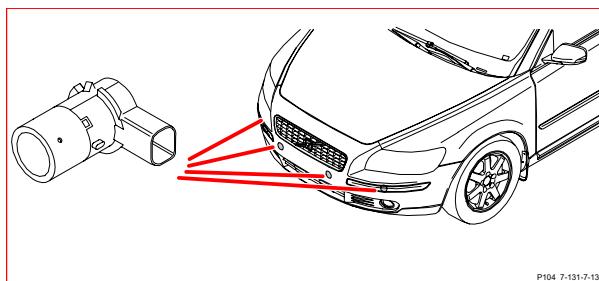
7/121 - 7/156

7/121 Angle sensor, Bi-Xenon front



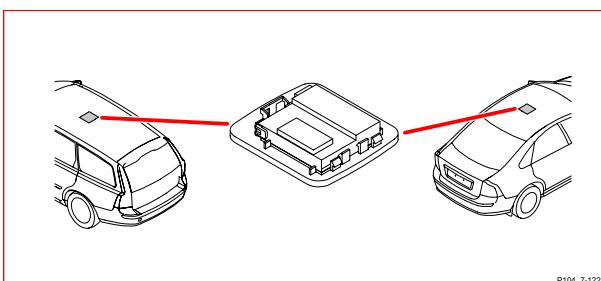
P104_7-121

7/131-7/134 Sensor parking assistance 1-4



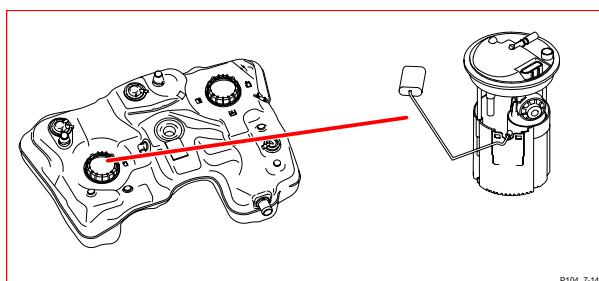
P104_7-131-7-134

7/122 Mass movement sensor, front



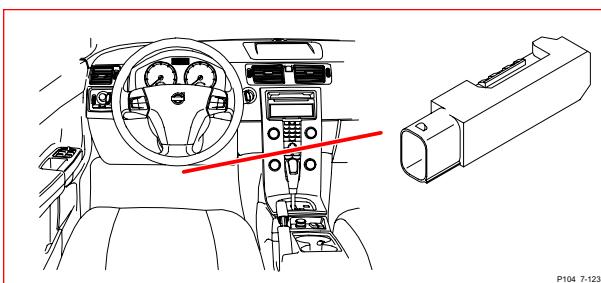
P104_7-122

7/143 Sensor fuel level, pump side



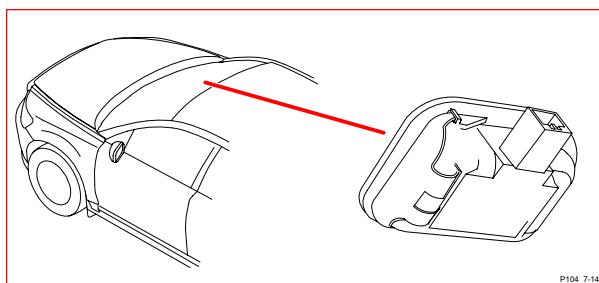
P104_7-143

7/123 Sensor clutch pedal, Gasoline



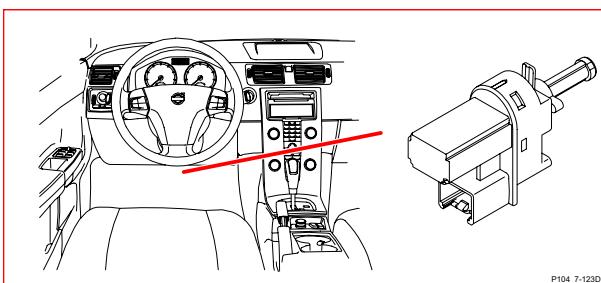
P104_7-123

7/149 Rain Sensor Module (RSM)



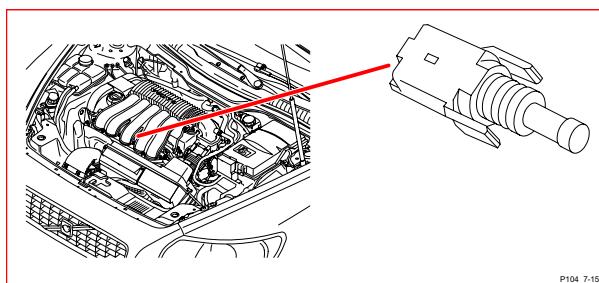
P104_7-149

7/123 Sensor clutch pedal, Diesel



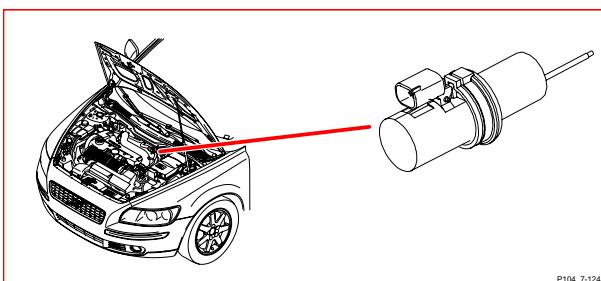
P104_7-123D

7/154 Sensor fuel temperature



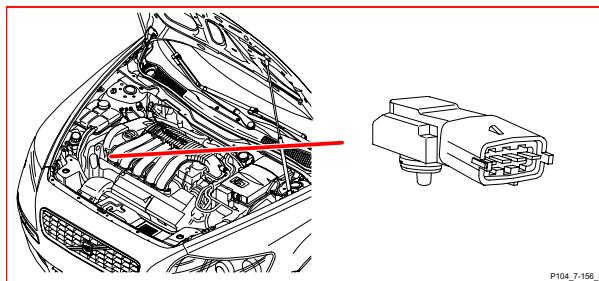
P104_7-154

7/124 Sensor brake pedal



P104_7-124

7/156 Pressure and temperature sensor
fuel, 5-CYL

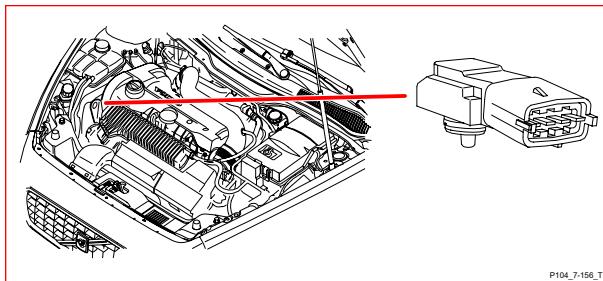


P104_7-156_S

Component illustrations

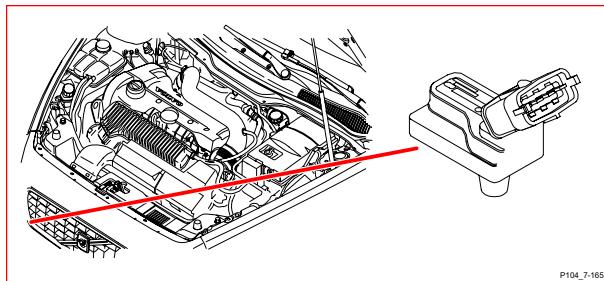
7/156 - 7/179

7/156 Pressure and temperature sensor
fuel, Turbo



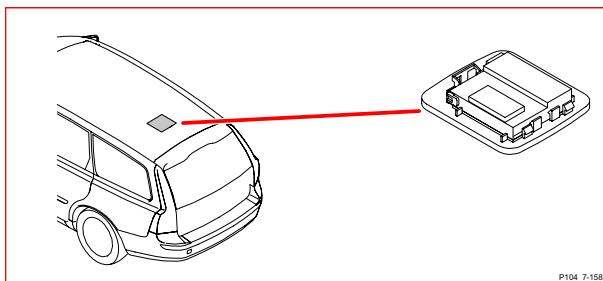
P104_7-156_T

7/165 Pressure and temperature sensor,
intake manifold



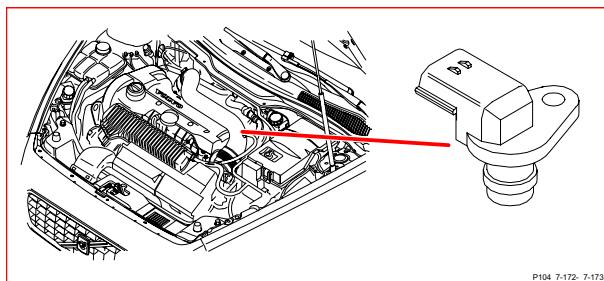
P104_7-165

7/158 Mass movement sensor rear



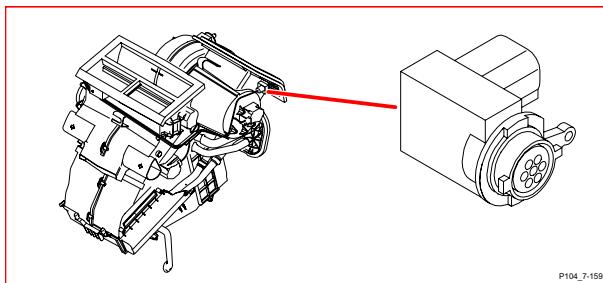
P104_7-158

7/172 Position sensor camshaft, intake side



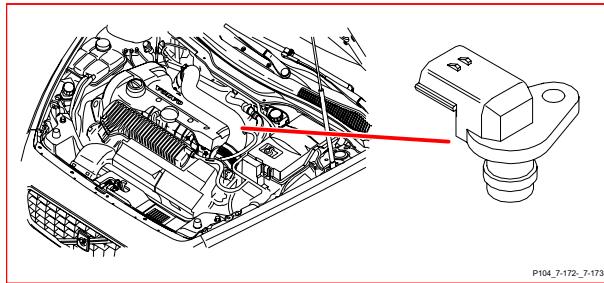
P104_7-172_7-173

7/159 Air quality sensor



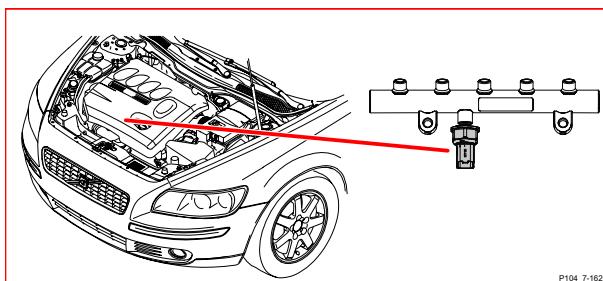
P104_7-159

7/173 Position sensor camshaft, exhaust
side



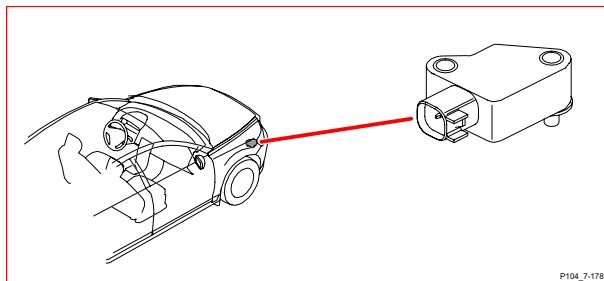
P104_7-172_7-173

7/162 Pressure sensor, fuel line



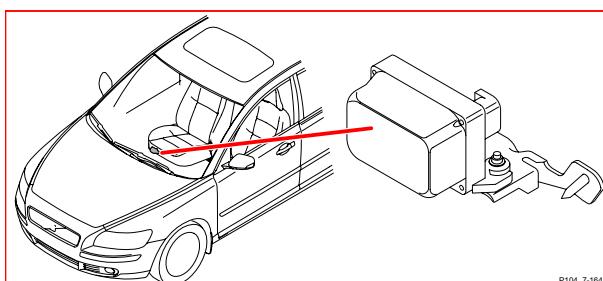
P104_7-162

7/178 Front impact sensor, right



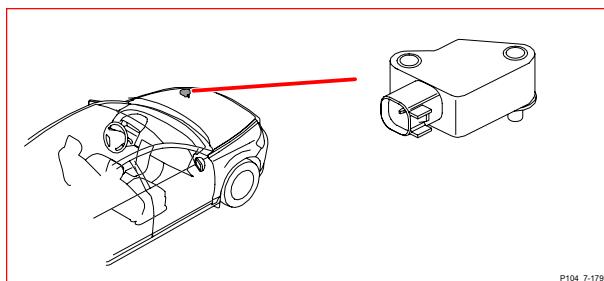
P104_7-178

7/164 Body Sensor Cluster (BSC)



P104_7-164

7/179 Front impact sensor, left

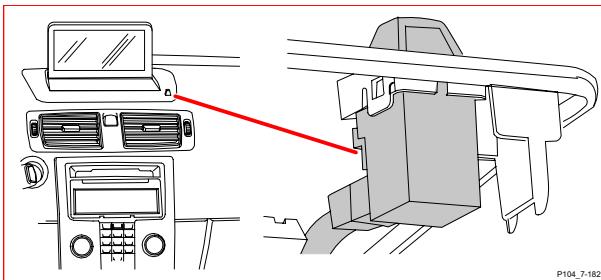


P104_7-179

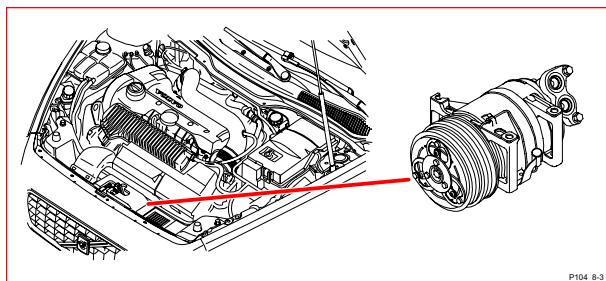
Component illustrations

7/182 - 8/28

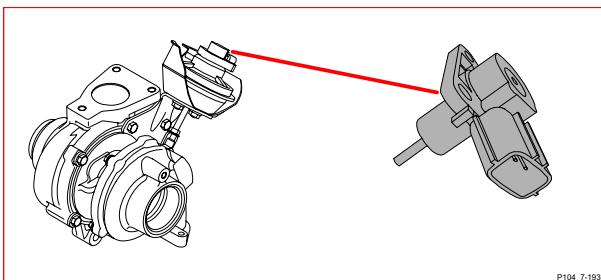
7/182 Remote control IR sensor, RTI



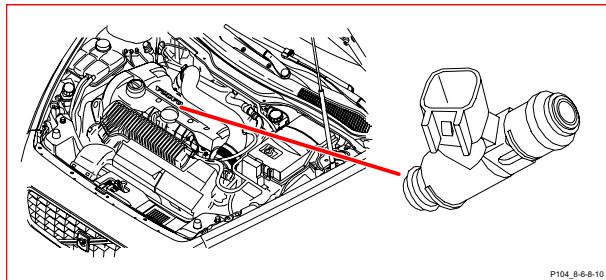
8/3 Electromagnetic clutch, climate control system



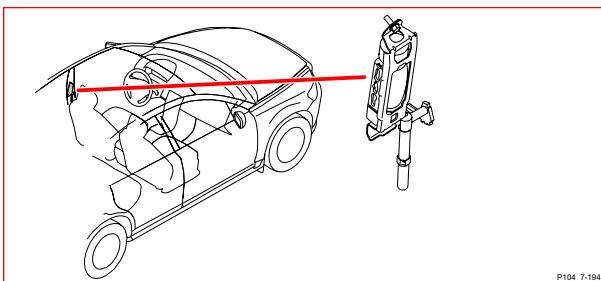
7/193 Position sensor turbo



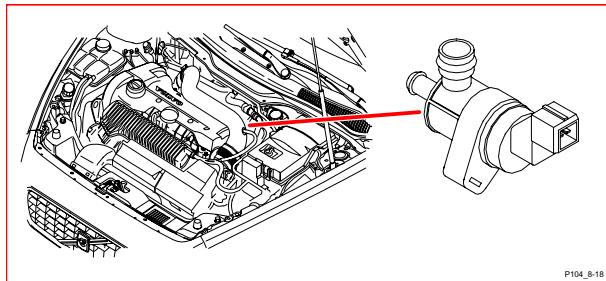
8/6-10 Injection valves



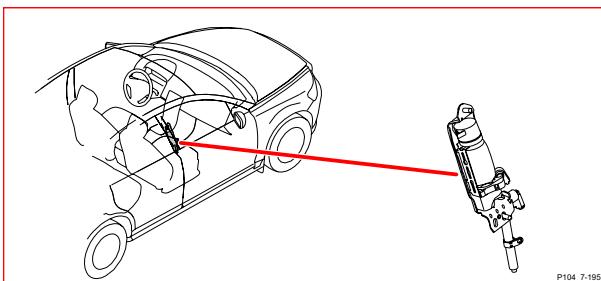
7/194 Sensor belt roller, driver



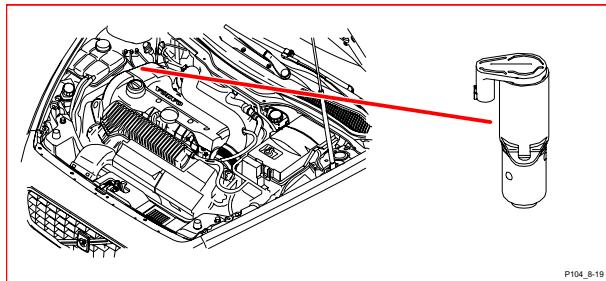
8/18 EVAP valve



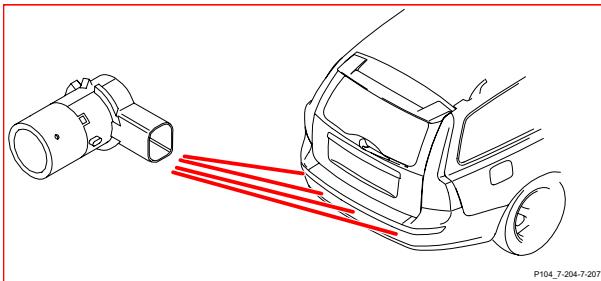
7/195 Sensor belt roller, passenger



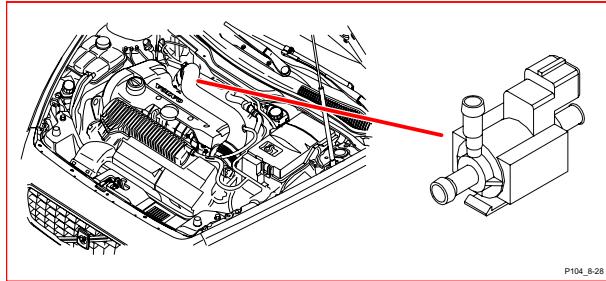
8/19 Solenoid, variable valve timing, intake



7/204 -7/207 Sensor parking assistance 5-8



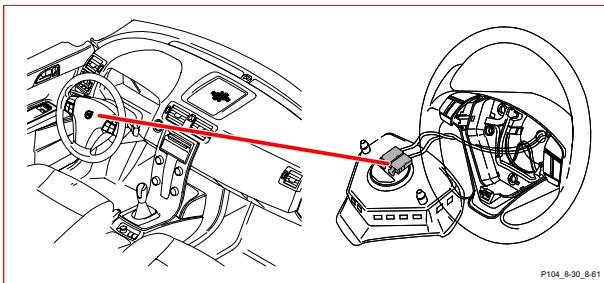
8/28 Turbocharger control valve



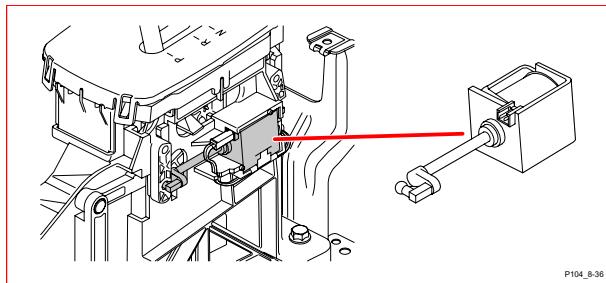
Component illustrations

8/30 - 8/40

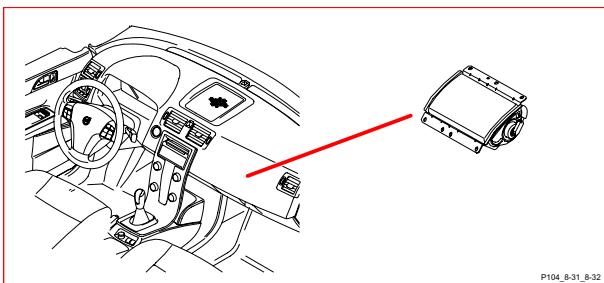
8/30 Igniter airbag, driver's side



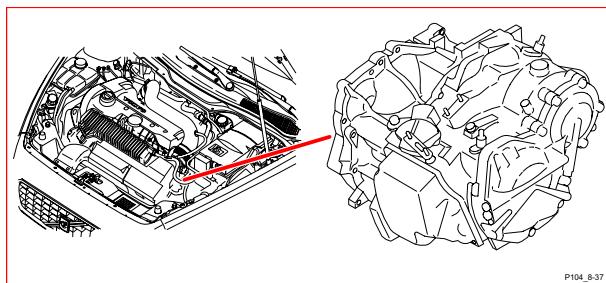
8/36 Solenoid shift lock



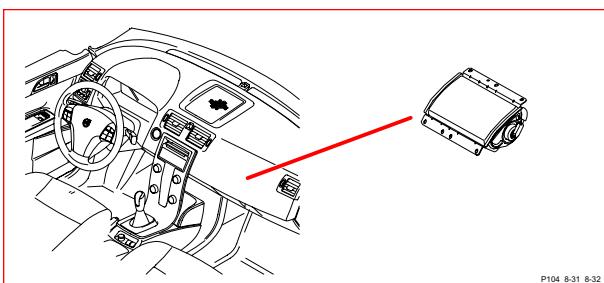
8/31 Airbag igniter, passenger side



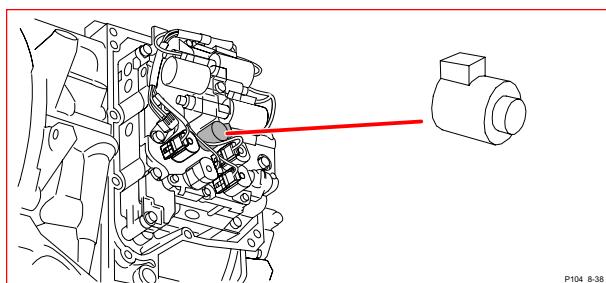
8/37 Automatic transmission



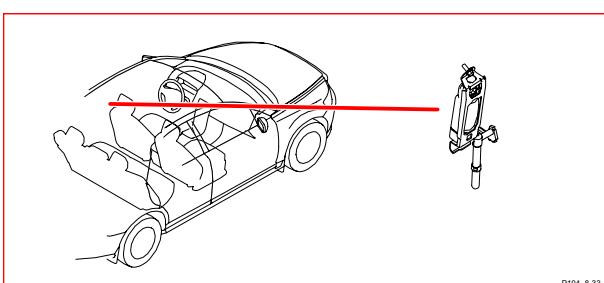
8/32 Igniter, airbag stage 2, passenger side



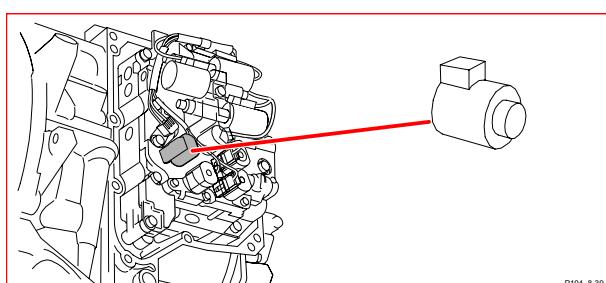
8/38 Shift solenoid 1



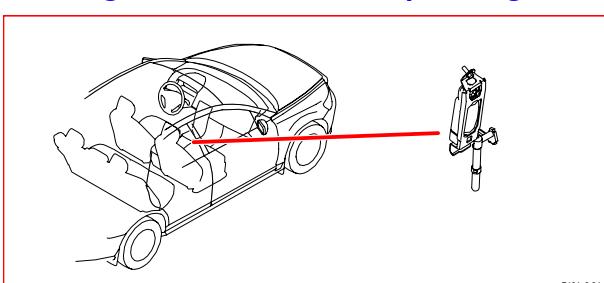
8/33 Igniter, belt tensioner, driver's side



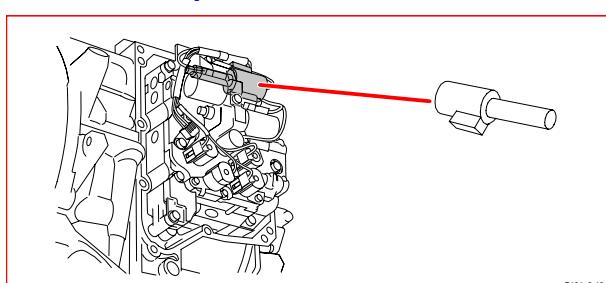
8/39 Shift solenoid 2



8/34 Igniter, belt tensioner, passenger side



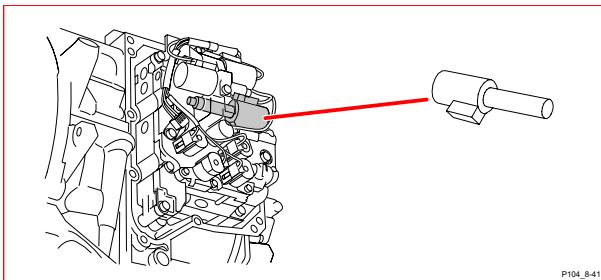
8/40 Lock-up solenoid



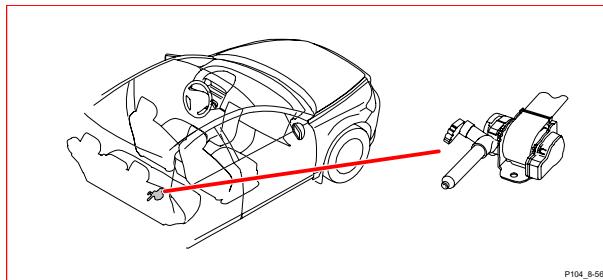
Component illustrations

8/41 - 8/68

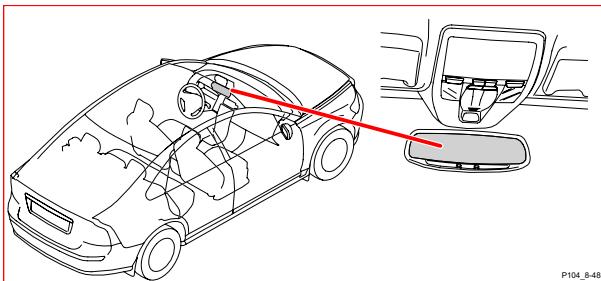
8/41 Pressure solenoid



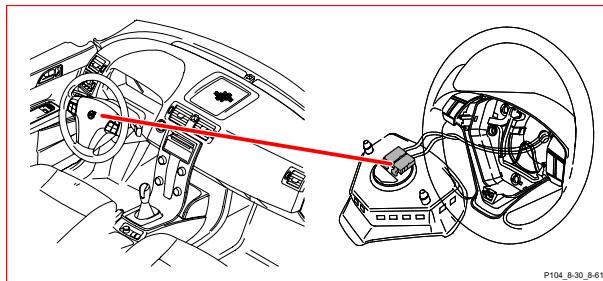
8/56 Igniter, right rear belt tensioner



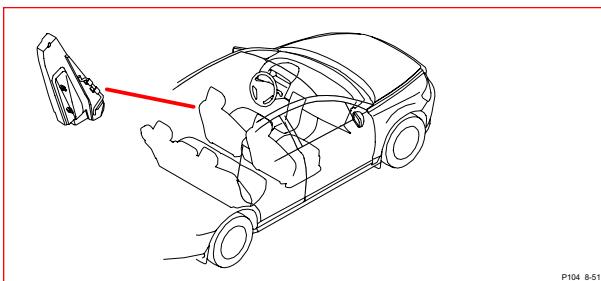
8/48 Auto-dimming rearview mirror



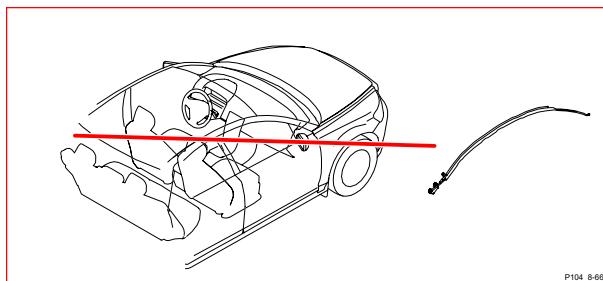
8/61 Igniter airbag, driver's side, stage 2



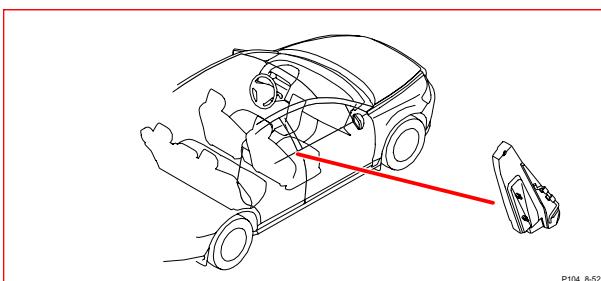
8/51 Igniter side airbag, driver's side



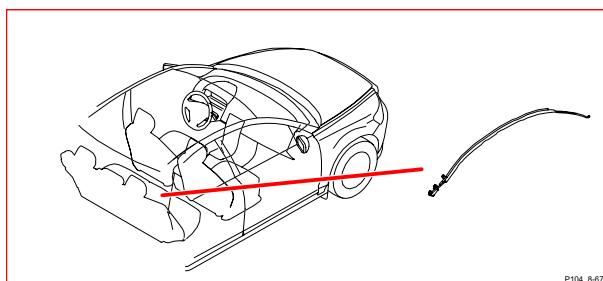
8/66 Igniter, left inflatable curtain



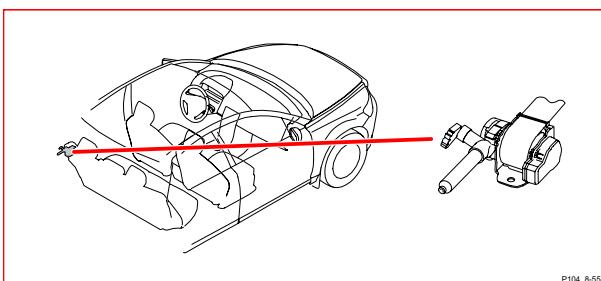
8/52 Igniter side airbag, passenger side



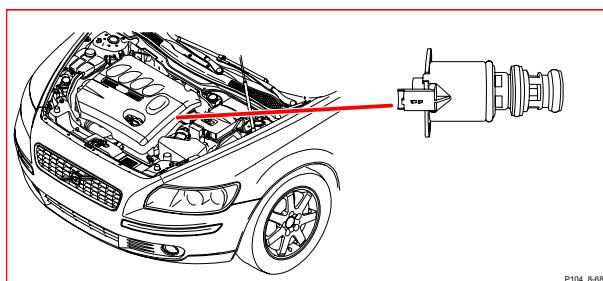
8/67 Igniter, right inflatable curtain



8/55 Igniter, left rear belt tensioner



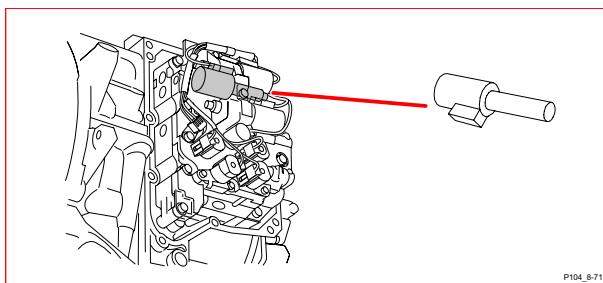
8/68 Bypass valve



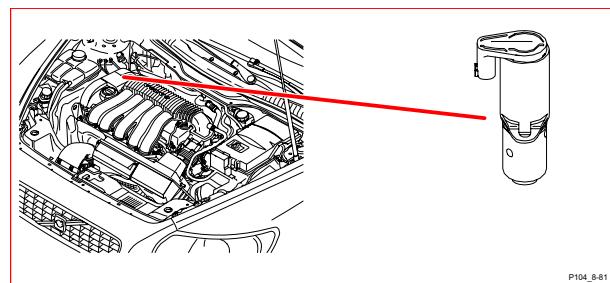
Component illustrations

8/71 - 8/99

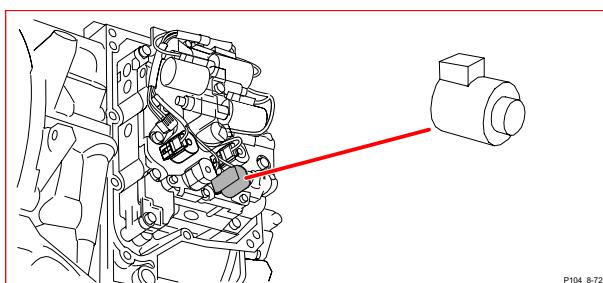
8/71 Throttle solenoid



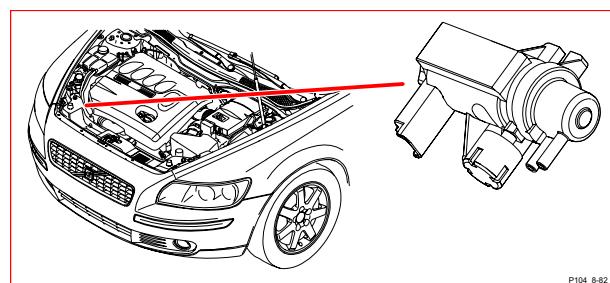
8/81 Solenoid, variable valve timing outlet



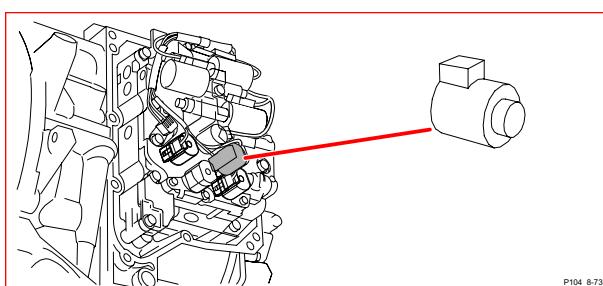
8/72 Shift solenoid 3



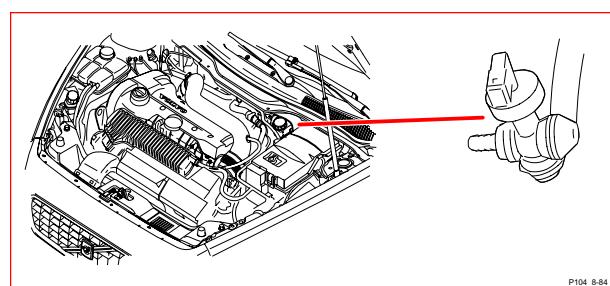
8/82 Solenoid, variable turbo geometry



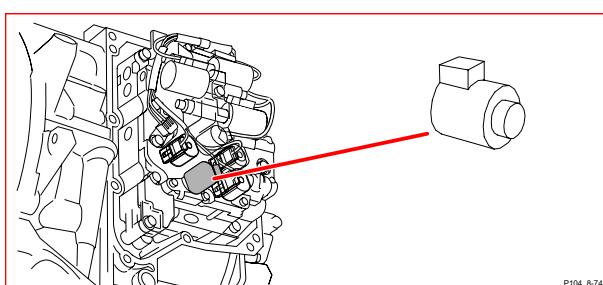
8/73 Shift solenoid 4



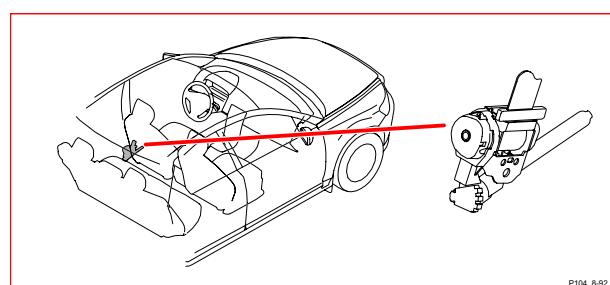
8/84 Switch, vacuum pump



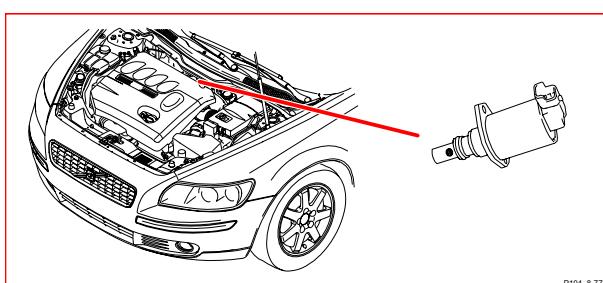
8/74 Shift solenoid 5



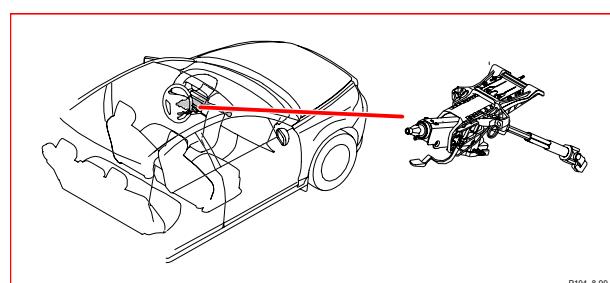
8/92 Lap belt tensioner, driver



8/77 Control valve fuel volume



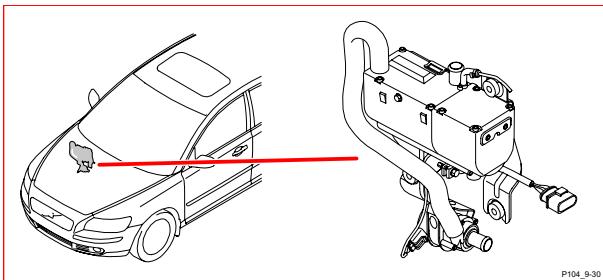
8/99 Igniter, steering column



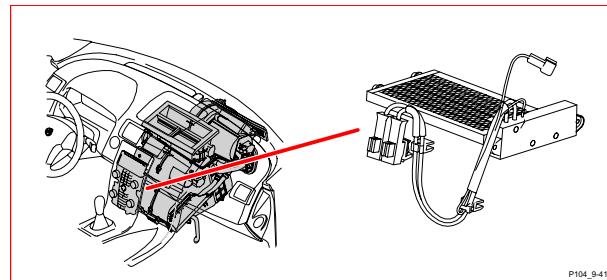
Component illustrations

9/30 - 10/5

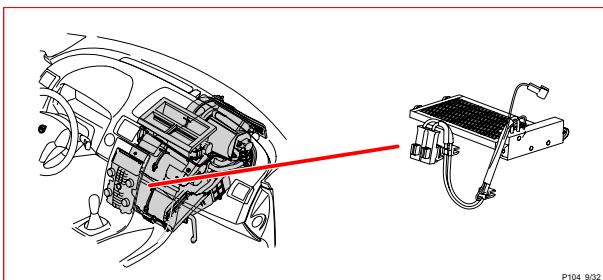
9/30 Auxiliary heater



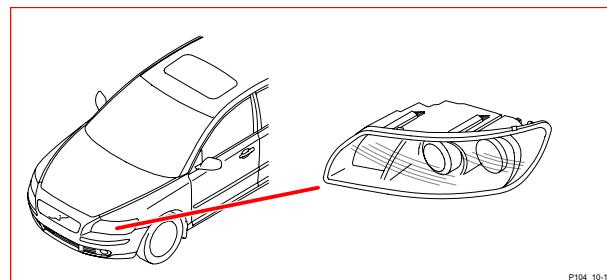
9/41 PTC-element



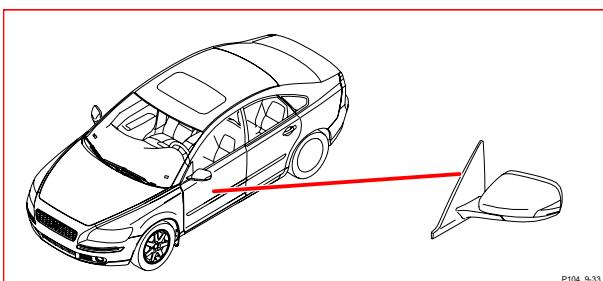
9/32 PTC resistor, oil trap



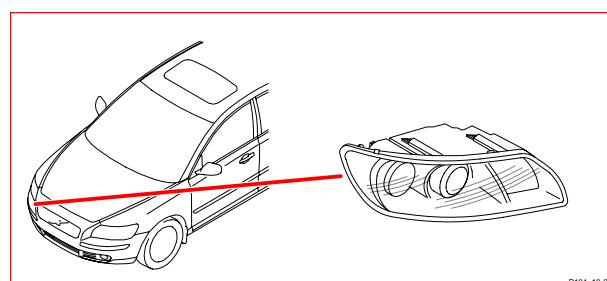
10/1 Lamp housing, front left



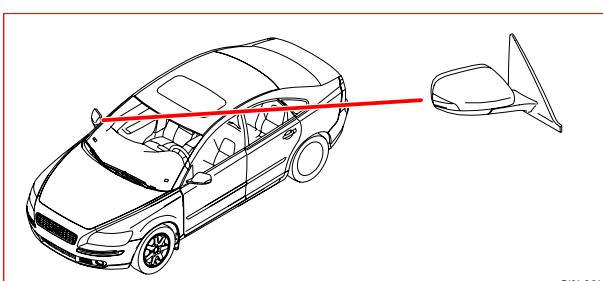
9/33 Electrically heated rear-view mirror, driver's door



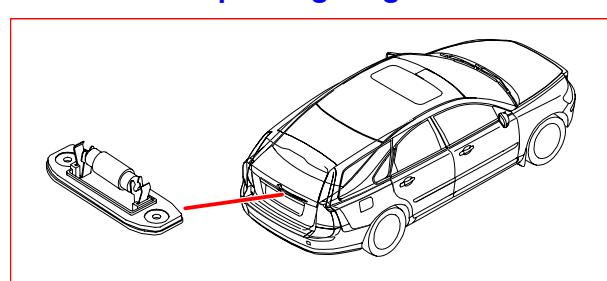
10/2 Lamp housing, front right



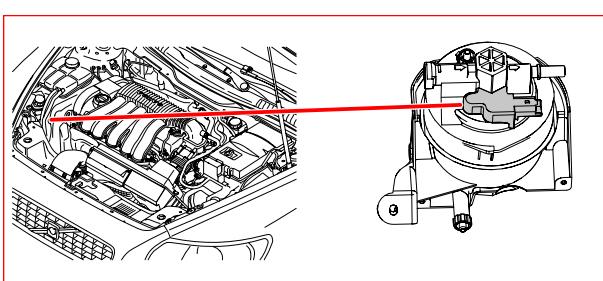
9/34 Electrically heated rear-view mirror, passenger door



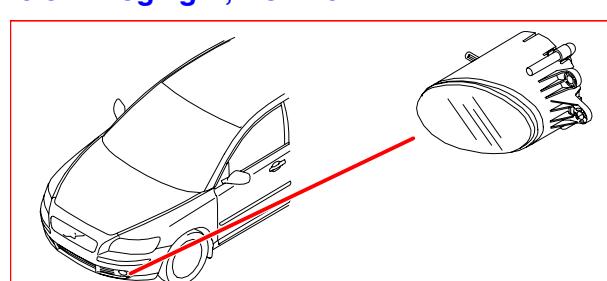
10/3 License plate lighting



9/38 Electrically heated fuel filter



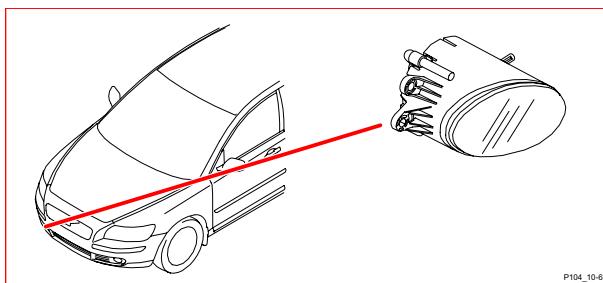
10/5 Fog light, front left



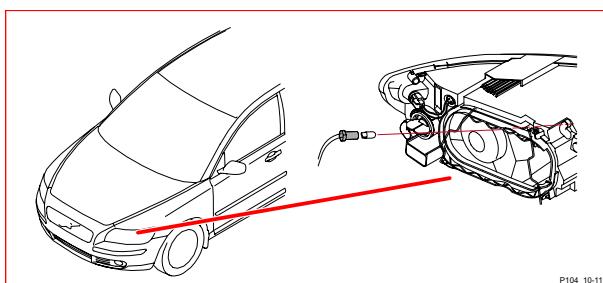
Component illustrations

10/6 - 10/19

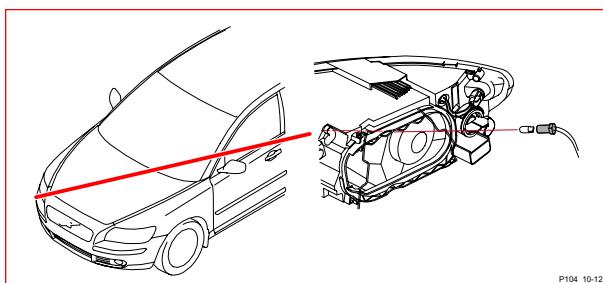
10/6 Fog light, front right



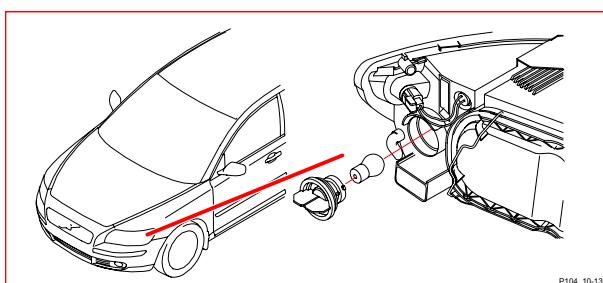
10/11 Running/parking light, front left



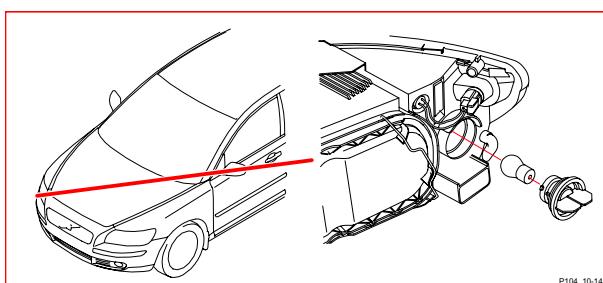
10/12 Running/parking light, front right



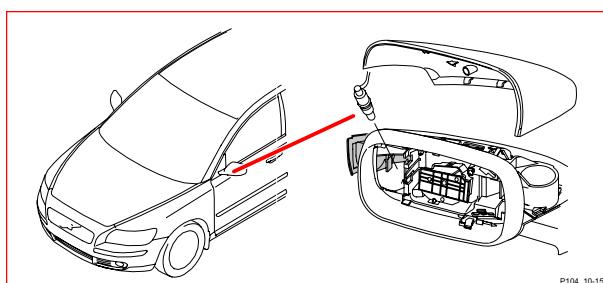
10/13 Direction indicator, front left



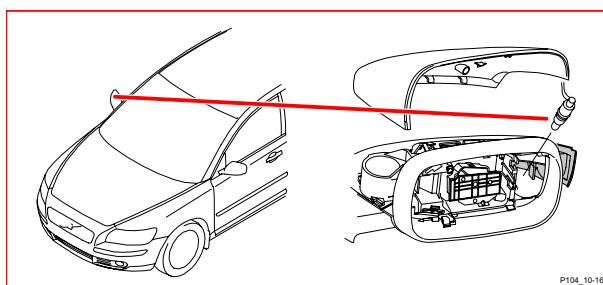
10/14 Direction indicator, front right



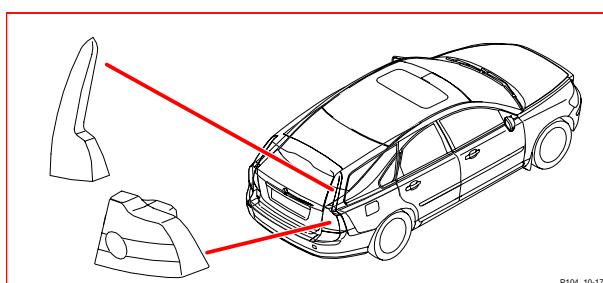
10/15 Direction indicator, rear-view mirror
driver's door



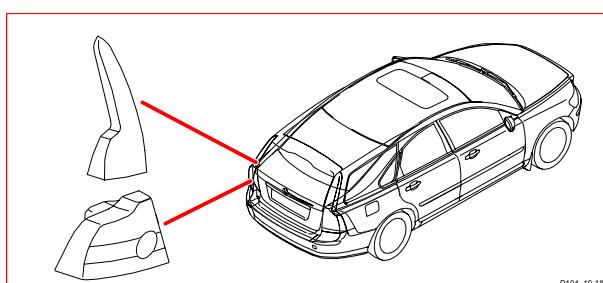
10/16 Direction indicator, rear-view mirror
passenger door



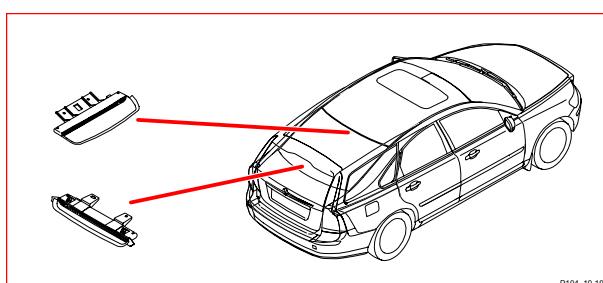
10/17 Lamp housing, rear right



10/18 Lamp housing, rear left



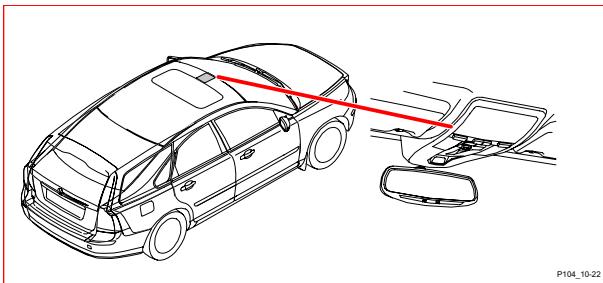
10/19 Brake light extra



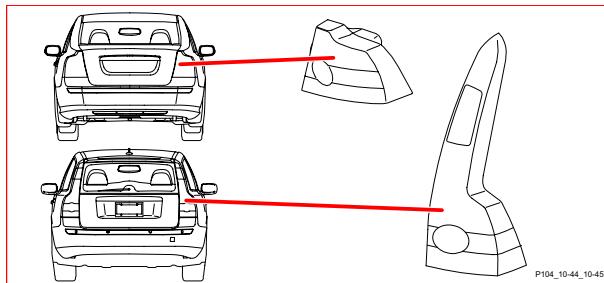
Component illustrations

10/22 - 10/48

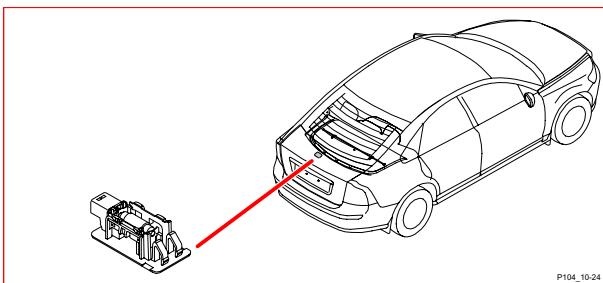
10/22 Ceiling light



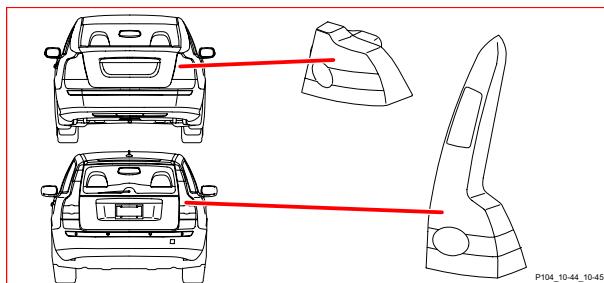
10/44 Tail light 1, right



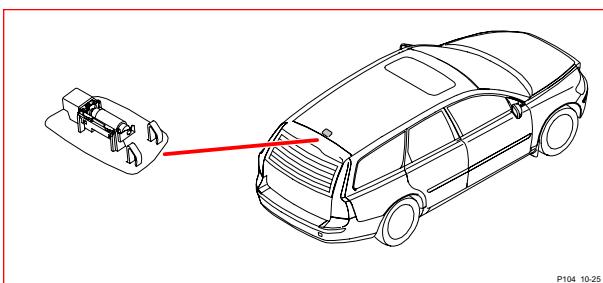
10/24 Cargo compartment lighting



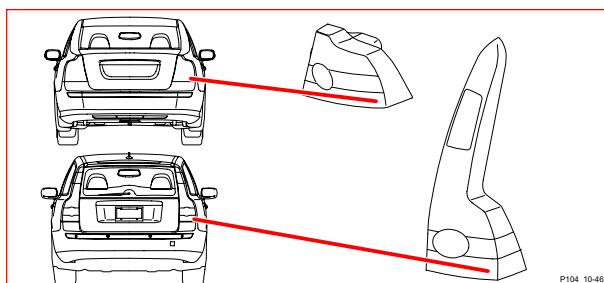
10/45 Tail light 2, right



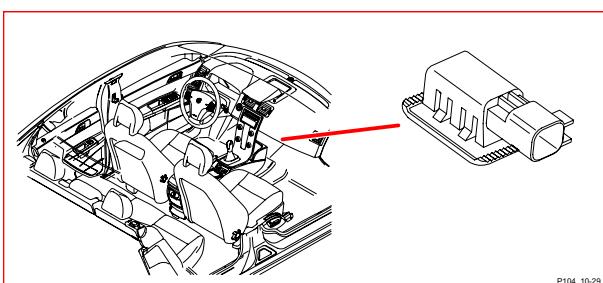
10/25 Ceiling light, cargo compartment



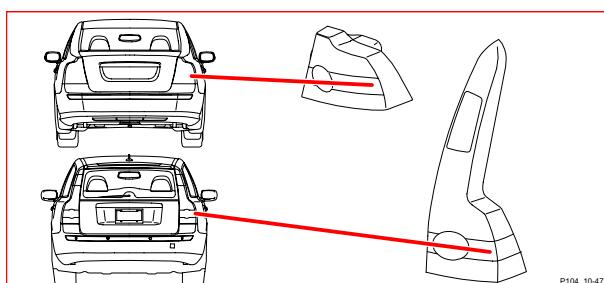
10/46 Fog light, right rear



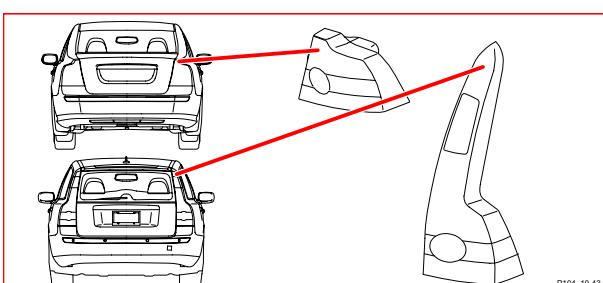
10/29 Glove compartment lighting



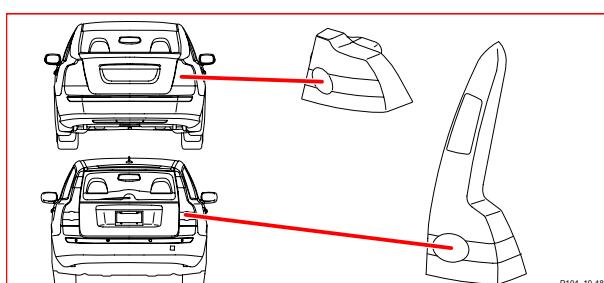
10/47 Direction indicator, right rear



10/43 Brake light, right



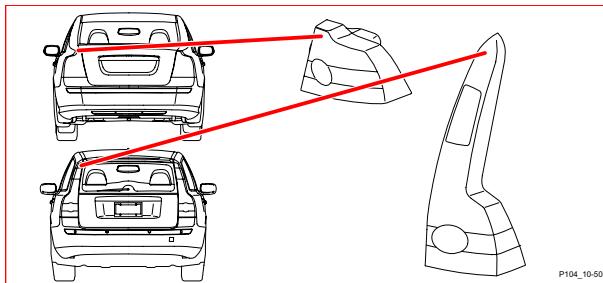
10/48 Reversing light, right



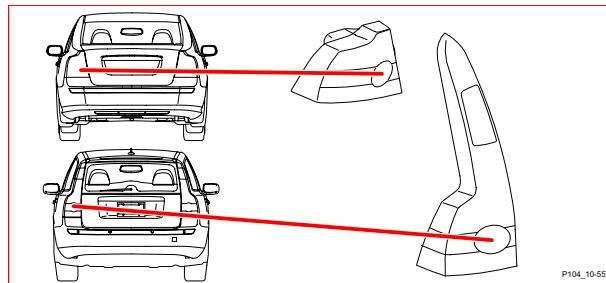
Component illustrations

10/50 - 10/68

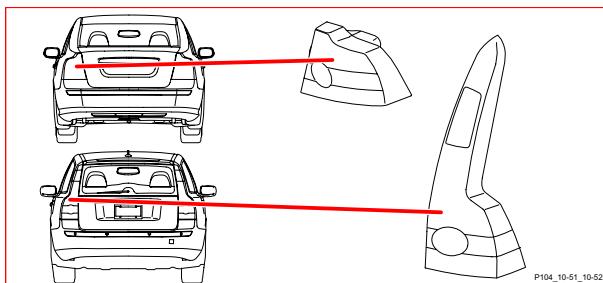
10/50 Brake light, left



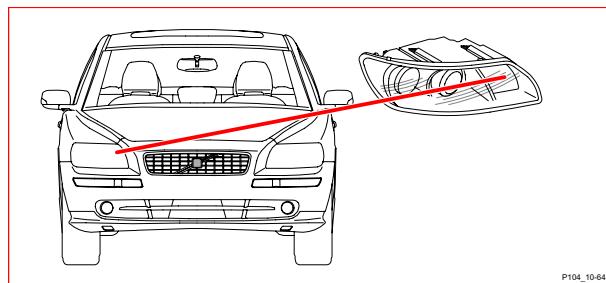
10/55 Reversing light, left



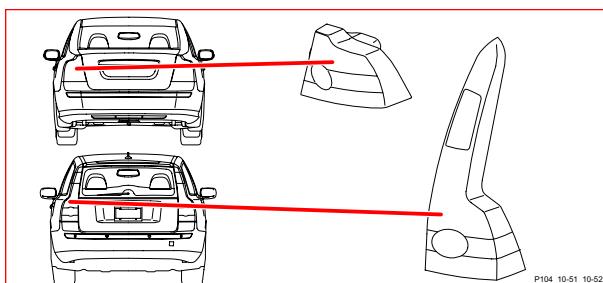
10/51 Tail light 1, left



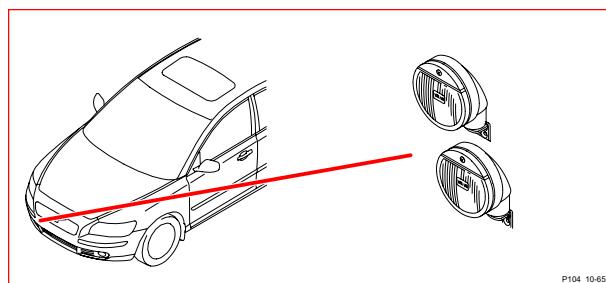
10/64 High beam, right



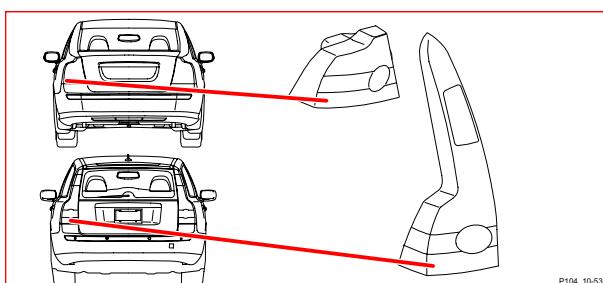
10/52 Tail light 2, left



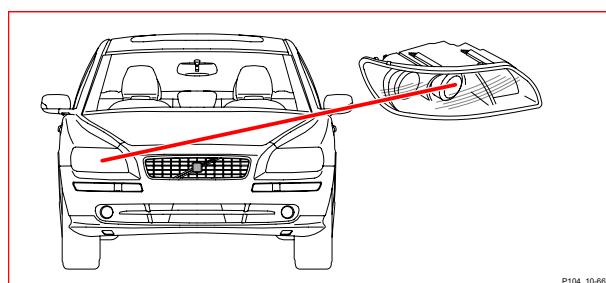
10/65 Auxiliary light, front right



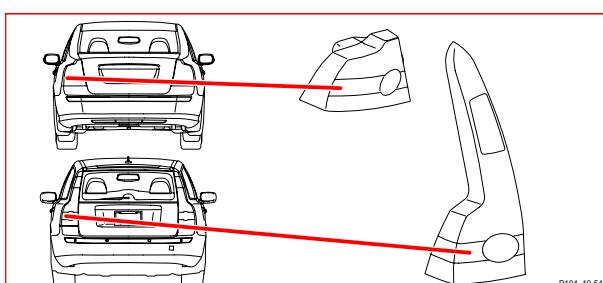
10/53 Fog light, left rear



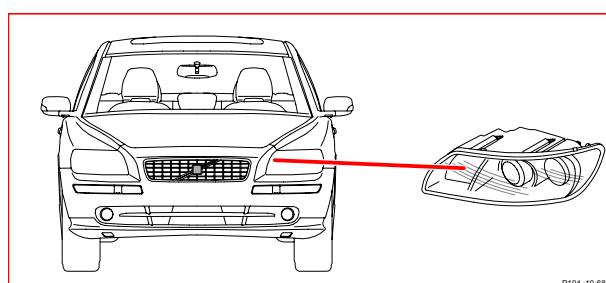
10/66 Low beam, right



10/54 Direction indicator, left rear



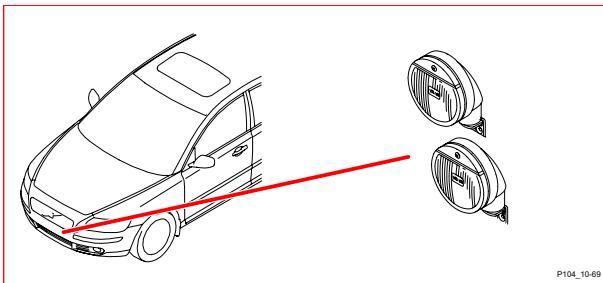
10/68 High beam, left



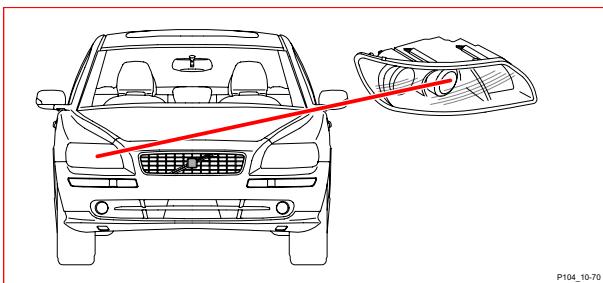
Component illustrations

16/69 - 11/1

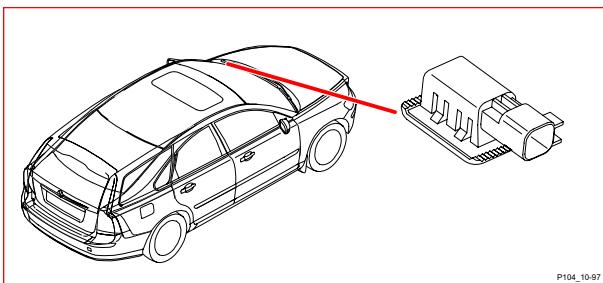
10/69 Auxiliary light, front left



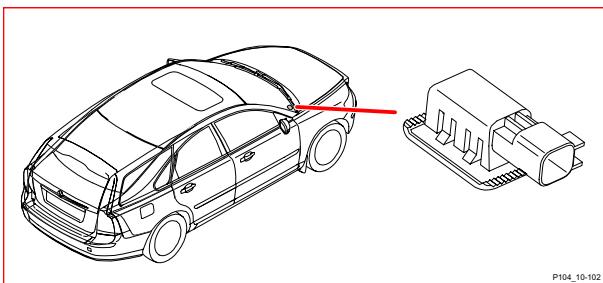
10/70 Low beam, left



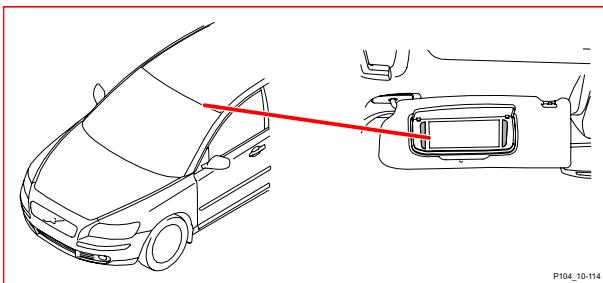
10/97 Courtesy lighting, left



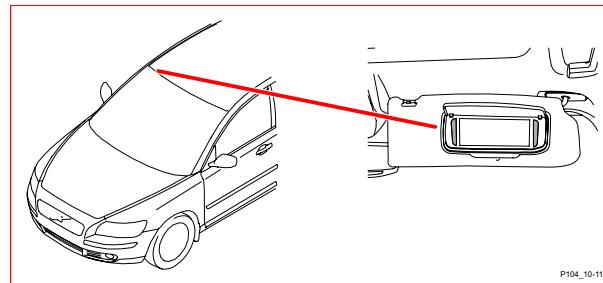
10/102 Courtesy lighting, right



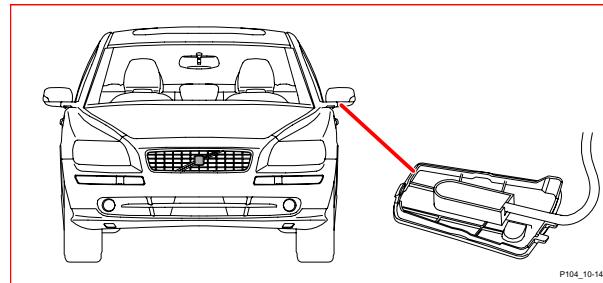
10/114 Vanity mirror lighting, left



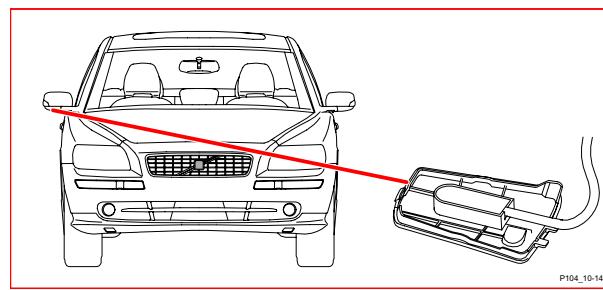
10/115 Vanity mirror lighting, right



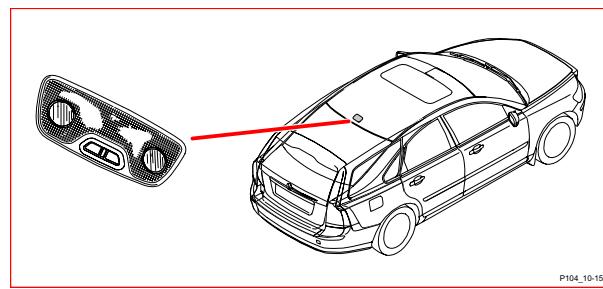
10/148 Lighting, rear-view mirror driver's door



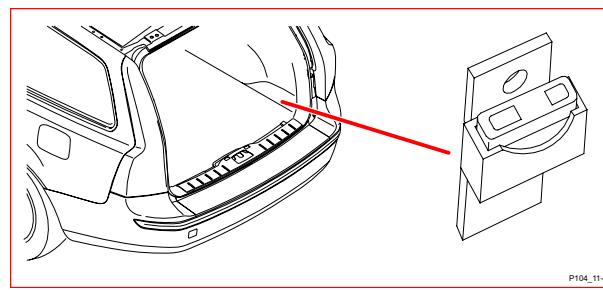
10/149 Lighting, rear-view mirror passenger door



10/150 Rear reading light



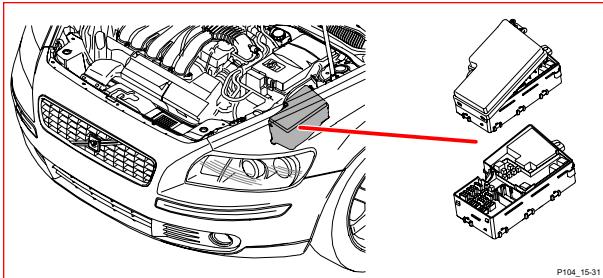
11/1 Suspended fuse (cargo compartment)



Component illustrations

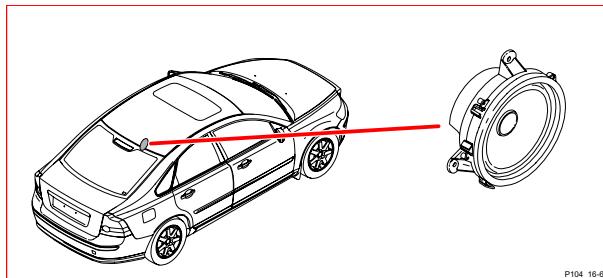
15/31 - 16/16

15/31 Distribution box in engine compartment



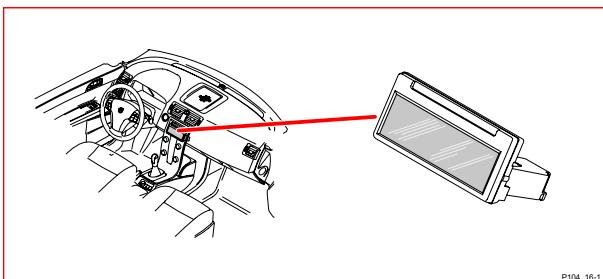
P104_15-31

16/6 Speaker, left rear door



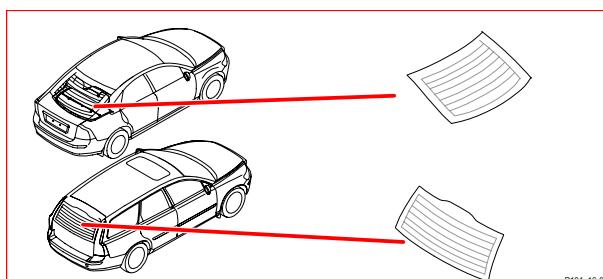
P104_16-6

16/1 Infotainment Control Module (ICM)



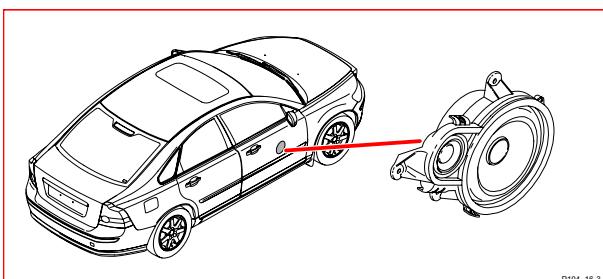
P104_16-1

16/9 Window antenna



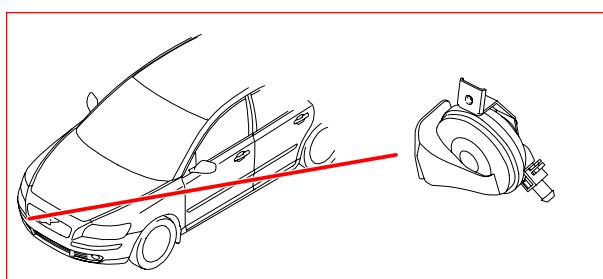
P104_16-9

16/3 Speaker, passenger door



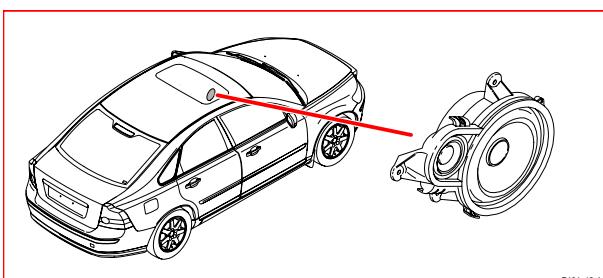
P104_16-3

16/10 Horn 1



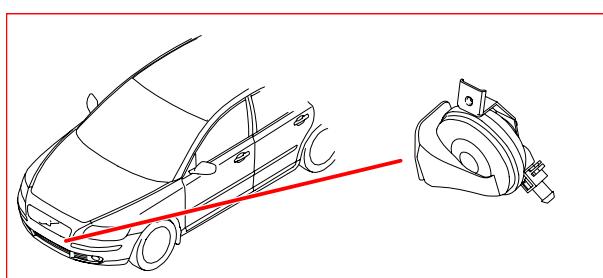
P104_16-10

16/4 Speaker, driver's door



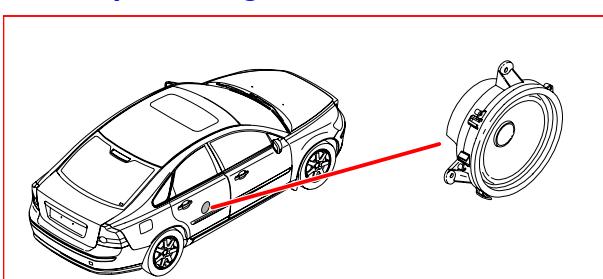
P104_16-4

16/11 Horn 2



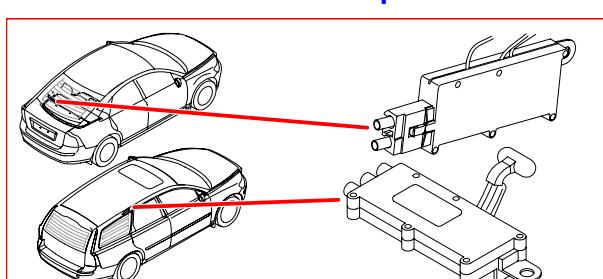
P104_16-11

16/5 Speaker, right rear door



P104_16-5

16/16 Window antenna amplifier

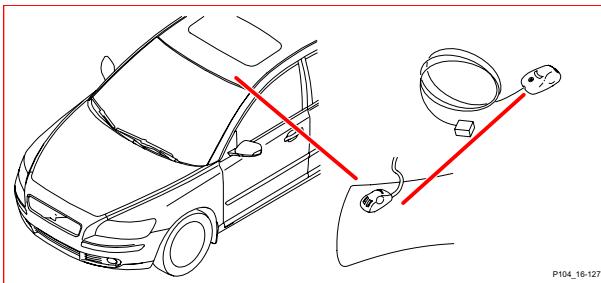


P104_16-16

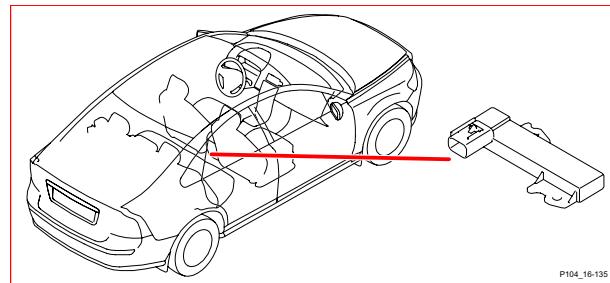
Component illustrations

16/127 - 16/139

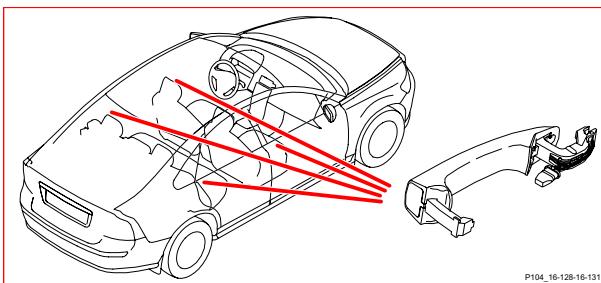
16/127 Microphone, handsfree cellular phone



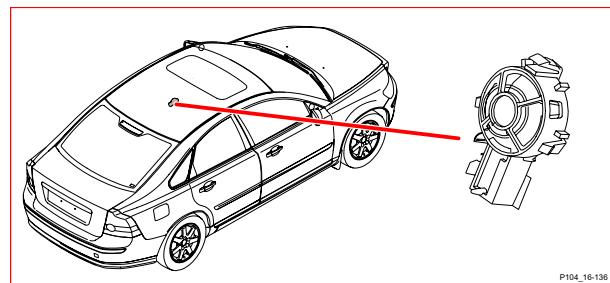
16/135 Antenna door lock cabin 3



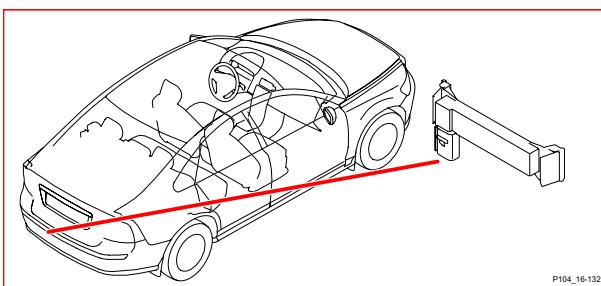
16/128-16/131 Antenna door lock front



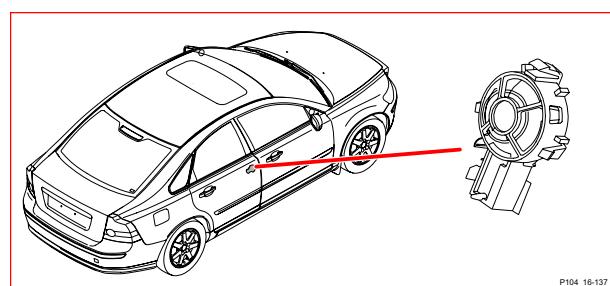
16/136 Treble speaker, left rear door



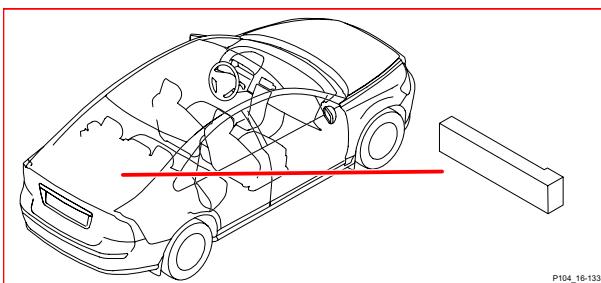
16/132 Antenna door lock cargo compartment



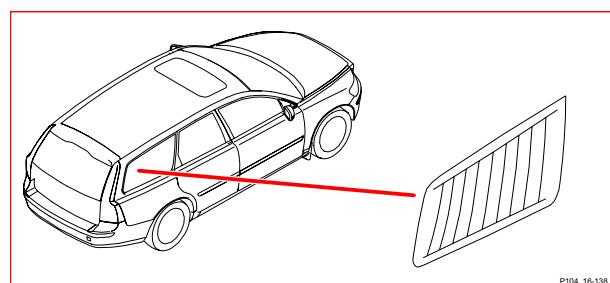
16/137 Treble speaker, right rear door



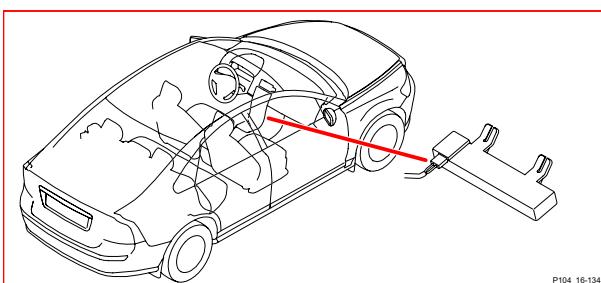
16/133 Antenna door lock cabin 1 rear



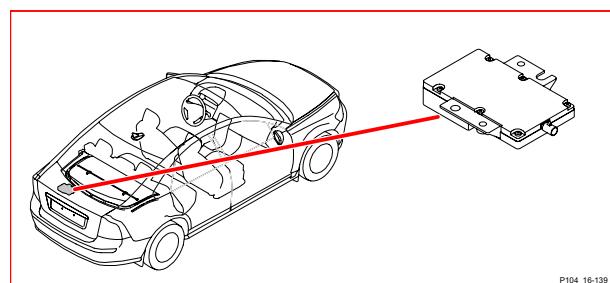
16/138 Rear window antenna, right



16/134 Antenna door lock cabin 2



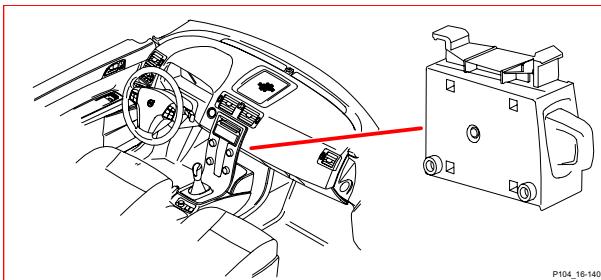
16/139 Global Positioning System Module (GPS)



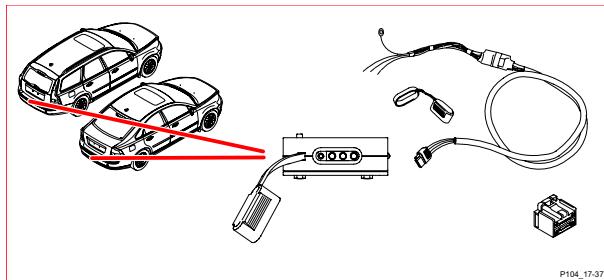
Component illustrations

16/140 - 20/3-7

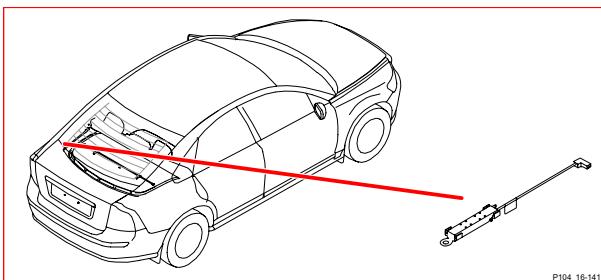
16/140 SIM card reader



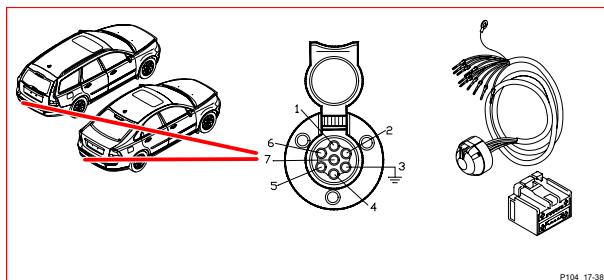
17/37 4-pin outlet, tow hitch cable harness



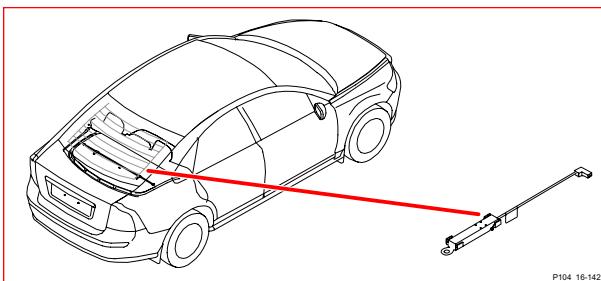
16/141 Interference filter, rear window, left



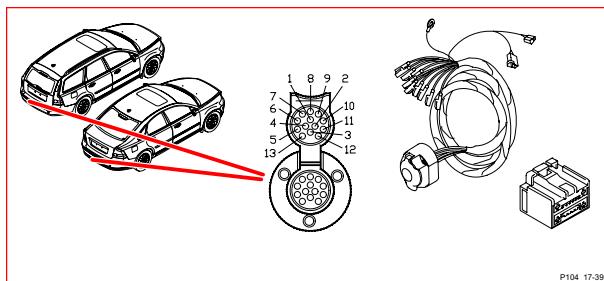
17/38 7-pin outlet, tow hitch cable harness



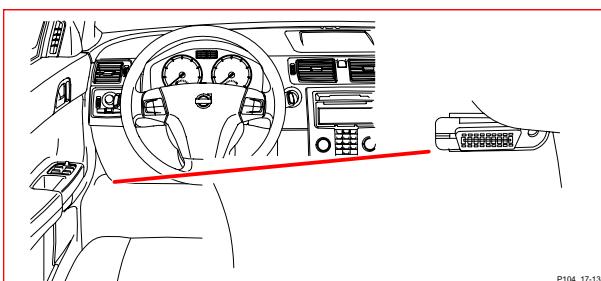
16/142 Interference filter, rear window, right



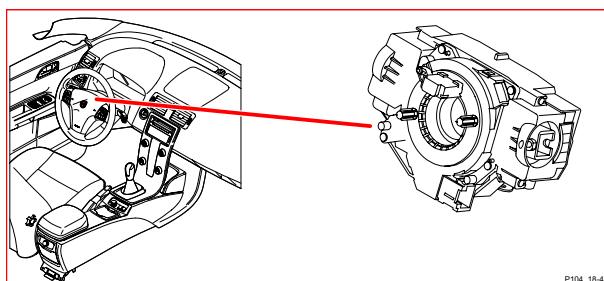
17/39 13-pin outlet, tow hitch cable harness



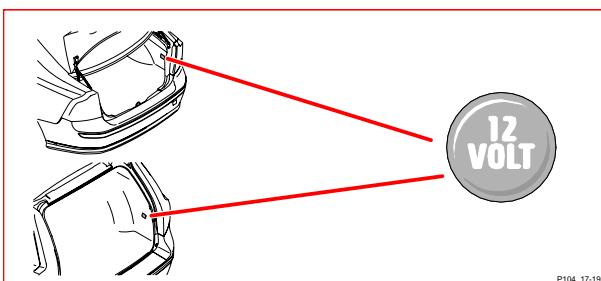
17/13 Data link connector



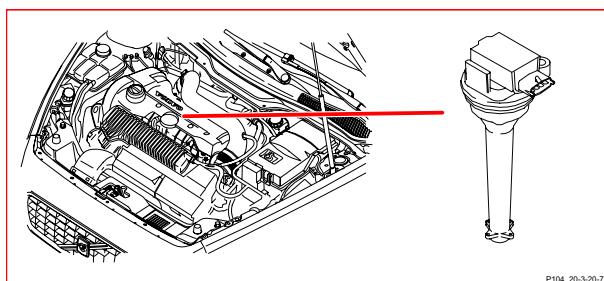
18/4 Contact reel



17/19 12V outlet, cargo compartment



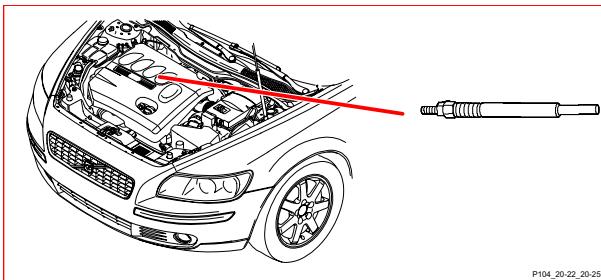
20/3-7 Spark plug and ignition coil



Component illustrations

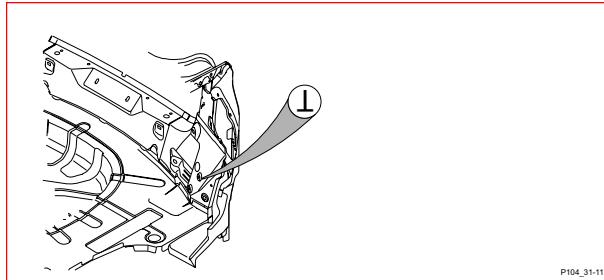
20/22 - 31/52

20/22-25Glow plug



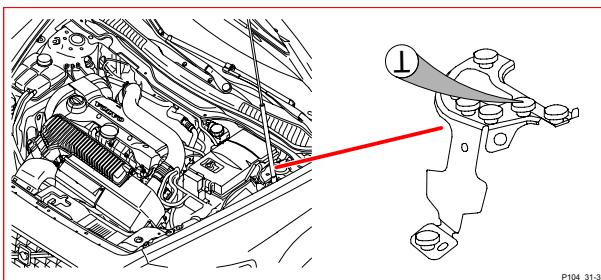
P104_20-22_20-25

31/11 Ground connection, Left side rear,
S40



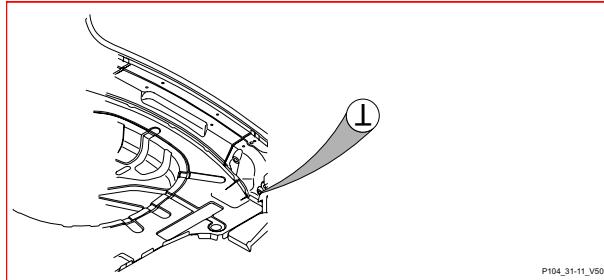
P104_31-11

31/3 Ground connection, Left strut tower



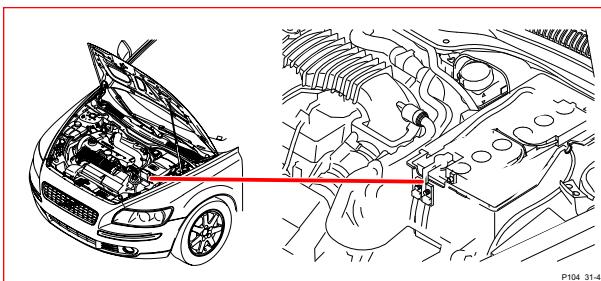
P104_31-3

31/11 Ground connection, Left side rear,
V50



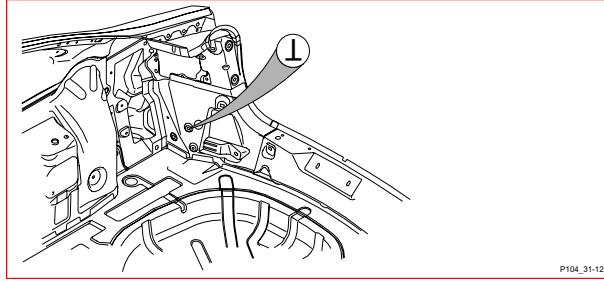
P104_31-11_V50

31/4 Ground connection, Engine



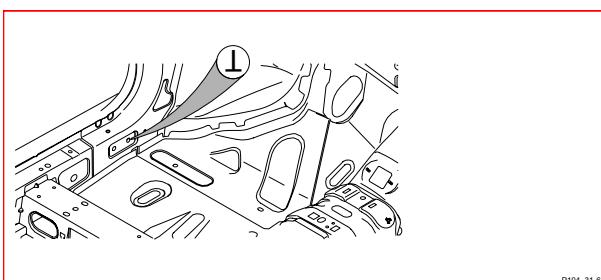
P104_31-4

31/12 Ground connection, Right side rear,
S40



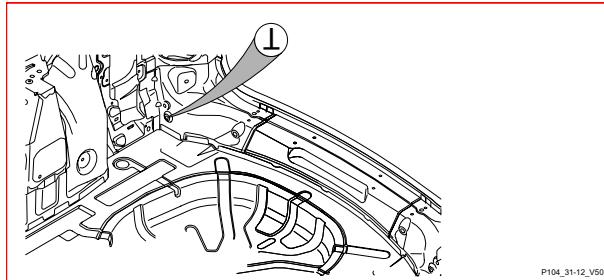
P104_31-12

31/6 Ground connection, A-pillar driver
side



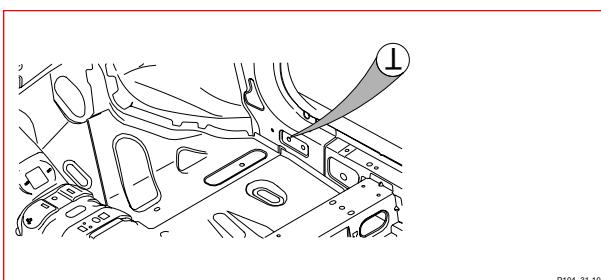
P104_31-6

31/12 Ground connection, Right side rear,
V50



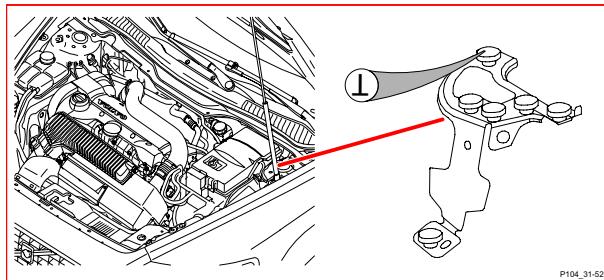
P104_31-12_V50

31/10 Ground connection, A-pillar passenger
side



P104_31-10

31/52 Ground connection, Left strut tower

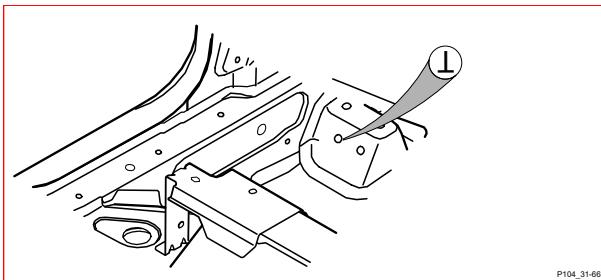


P104_31-52

Component illustrations

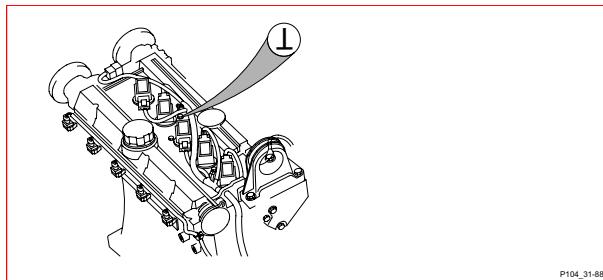
31/66 - 31/110

31/66 Ground connection, Left B-pillar



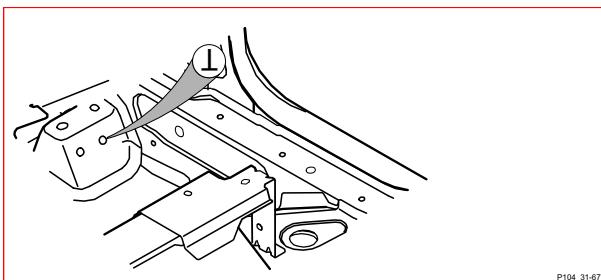
P104_31-66

31/88 Ground connection, Engine



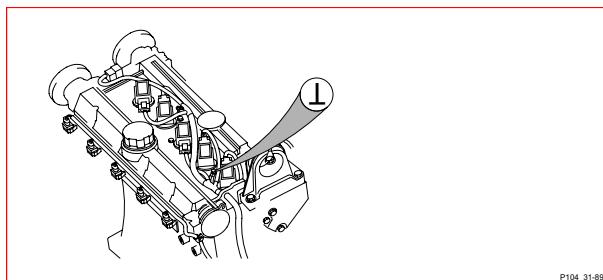
P104_31-88

31/67 Ground connection, Right B-pillar



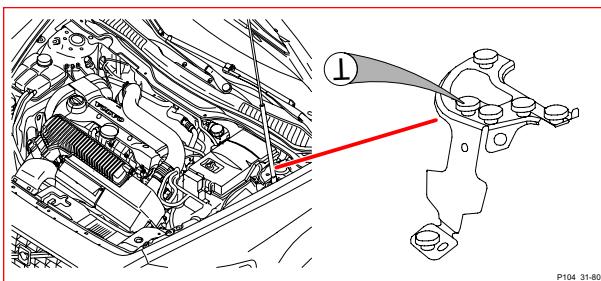
P104_31-67

31/89 Ground connection, Engine



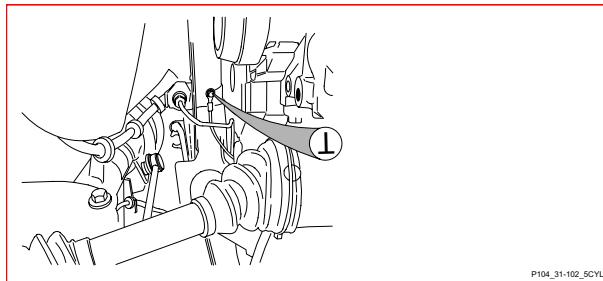
P104_31-89

31/80 Ground connection, Left strut tower



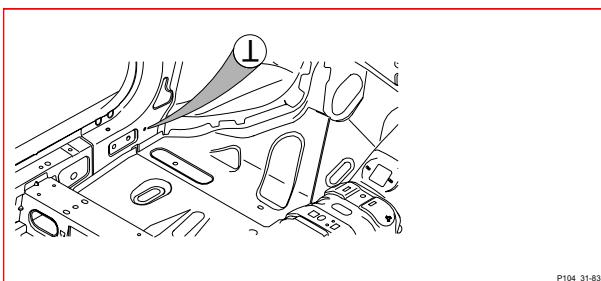
P104_31-80

31/102 Ground connection, Frame member, Gasoline



P104_31-102_GCYL

31/83 Ground connection, A-pillar driver side



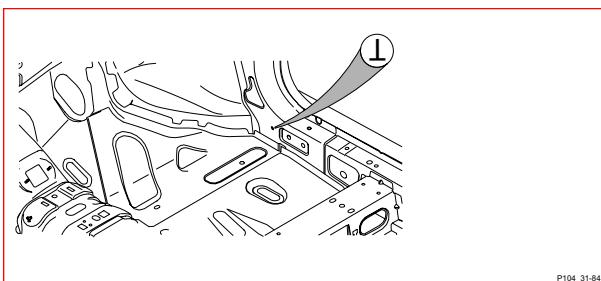
P104_31-83

31/102 Ground connection, Frame member, Diesel



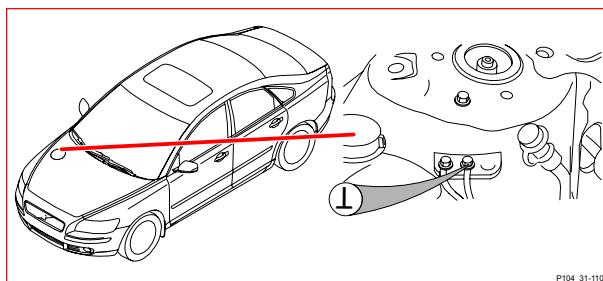
P104_31-102

31/84 Ground connection, A-pillar passenger side



P104_31-84

31/110 Ground connection, Right strut tower

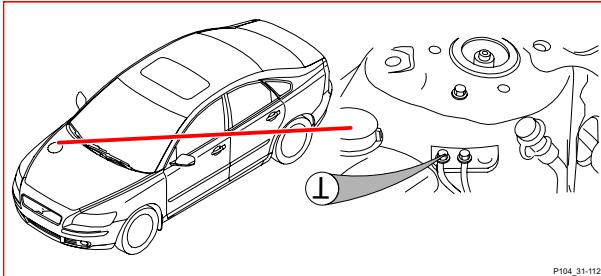


P104_31-110

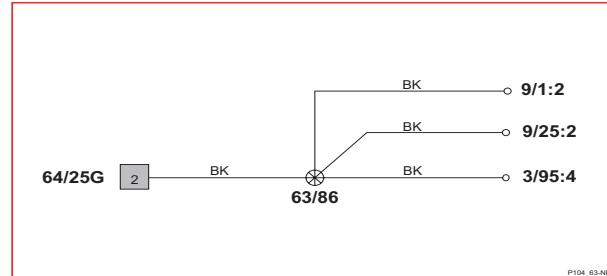
Component illustrations

31/112 - 64/30

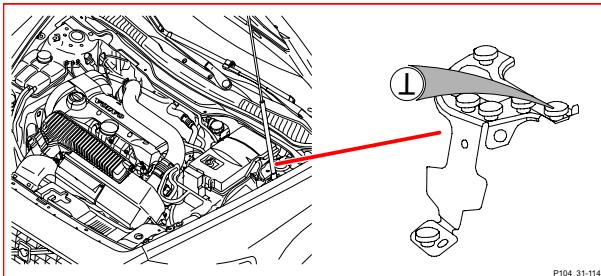
31/112 Ground connection, Right strut tower



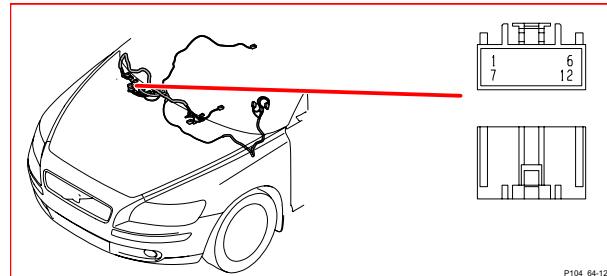
63/no. Branching point



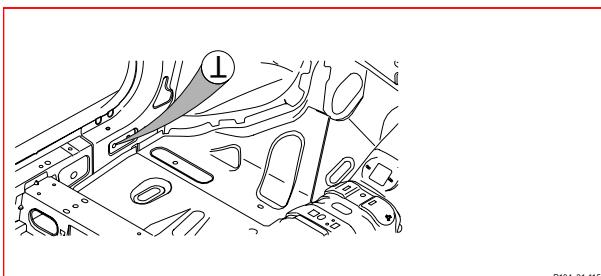
31/114 Ground connection, Left strut tower



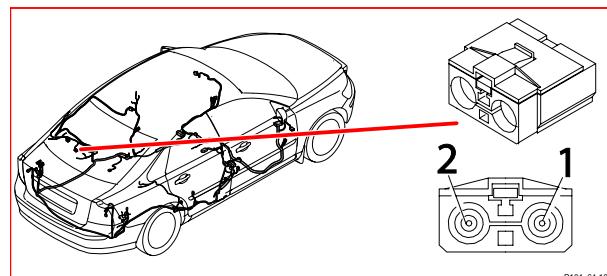
64/12 Connector



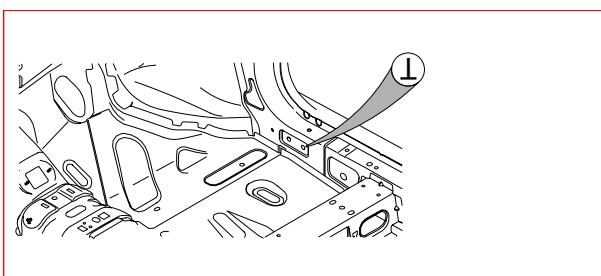
31/115 Ground connection, Left A-pillar



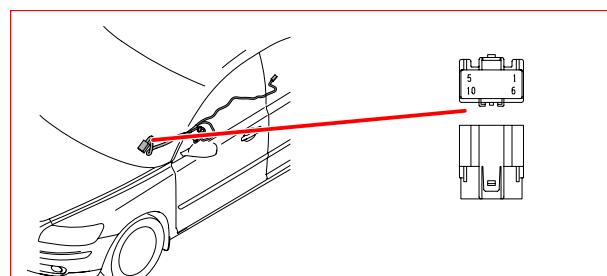
64/18 Connector



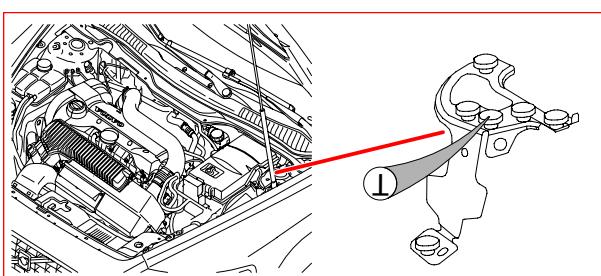
31/116 Ground connection, Right A-pillar



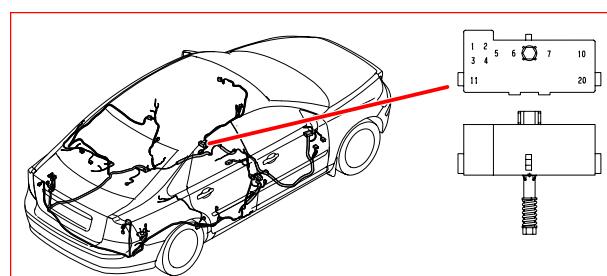
64/25G Connector



31/119 Ground connection, Left strut tower



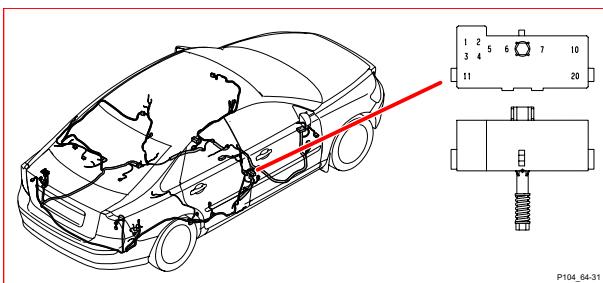
64/30 Connector



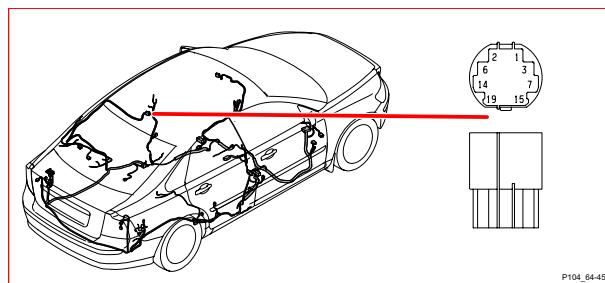
Component illustrations

64/31 - 64/50

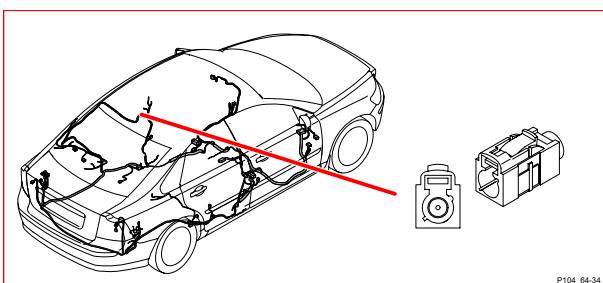
64/31 Connector



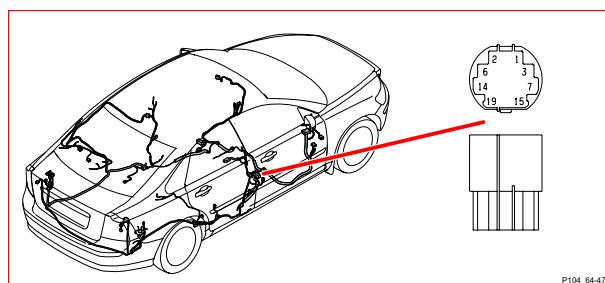
64/45 Connector



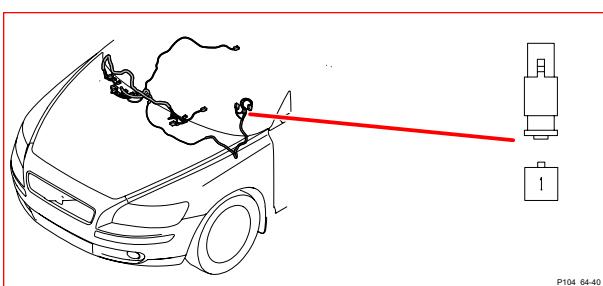
64/34 Connector



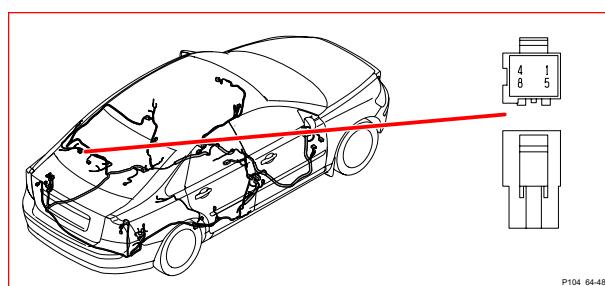
64/47 Connector



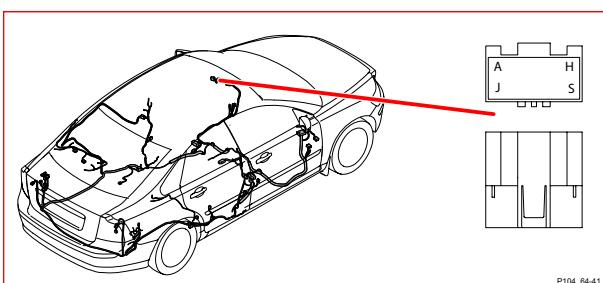
64/40 Connector



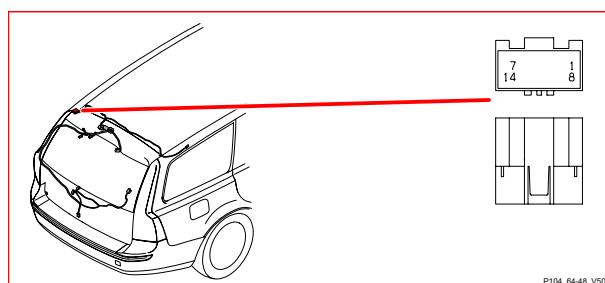
64/48 Connector S40



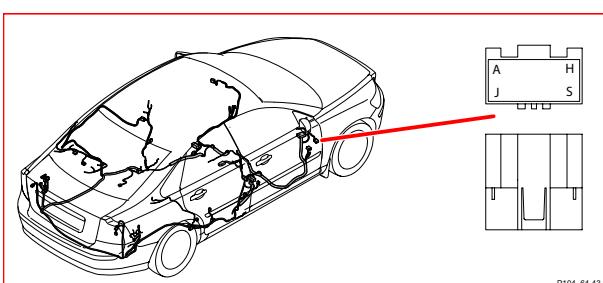
64/41 Connector



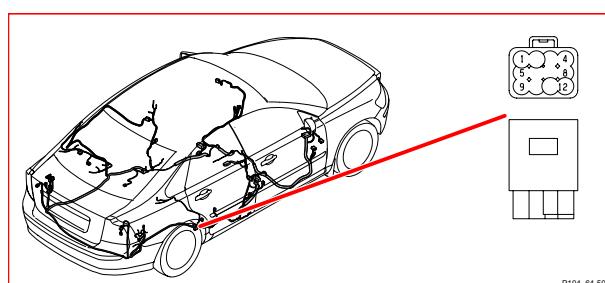
64/48 Connector V50



64/43 Connector



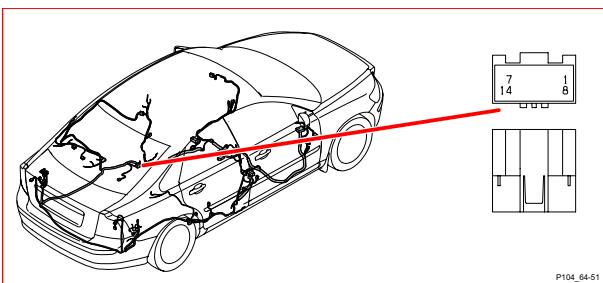
64/50 Connector



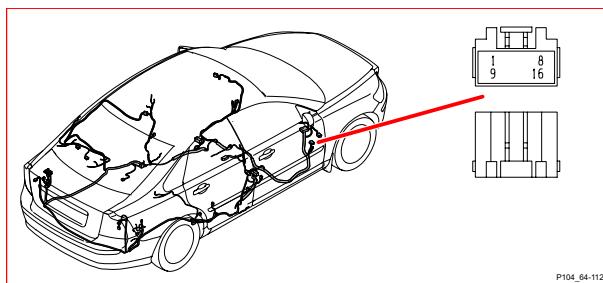
Component illustrations

64/51 - 64/545

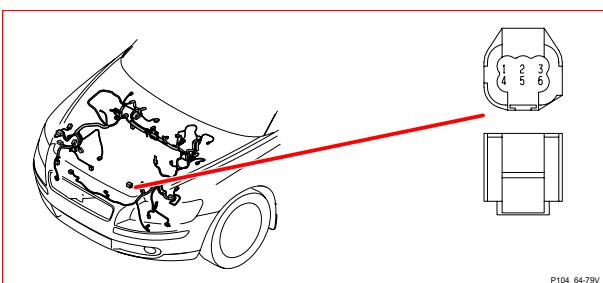
64/51 Connector



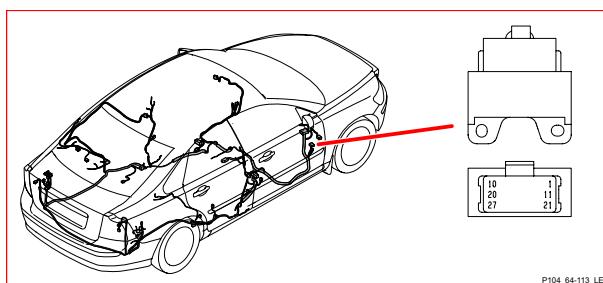
64/112 Connector



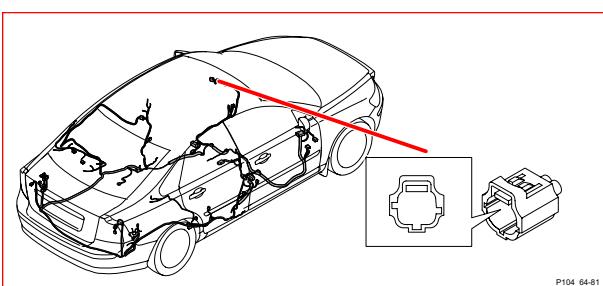
64/79V Connector



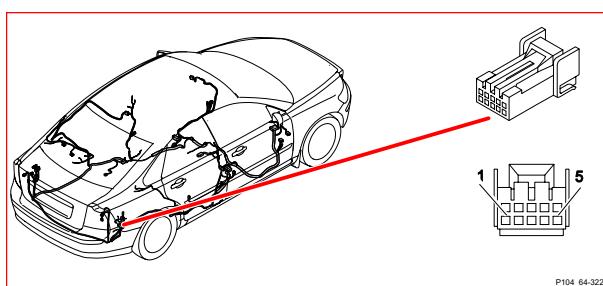
64/113 Connector



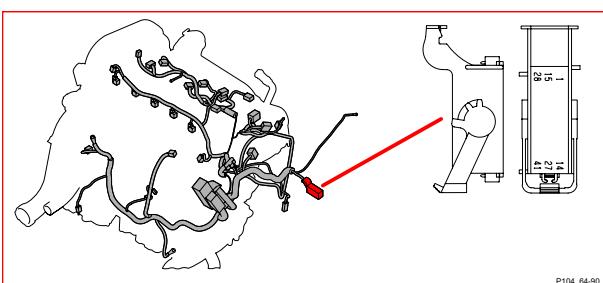
64/81 Connector



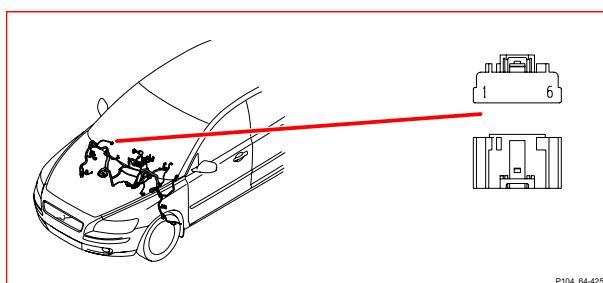
64/322 Connector



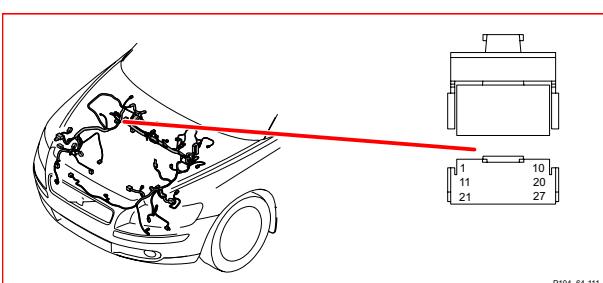
64/90 Connector



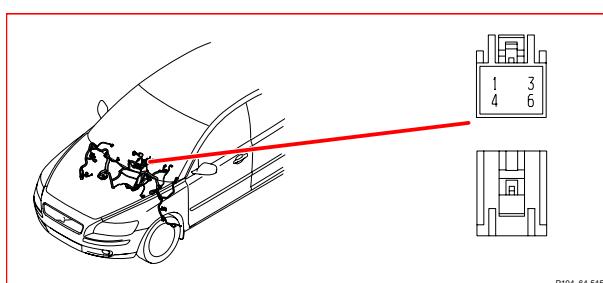
64/425 Connector



64/111 Connector



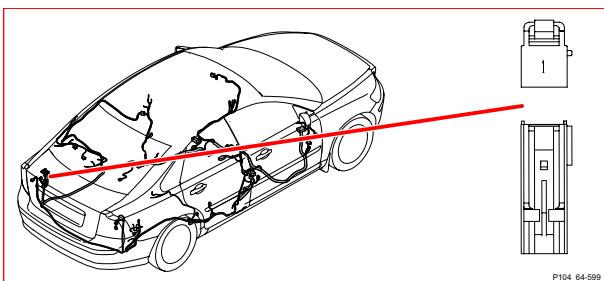
64/545 Connector



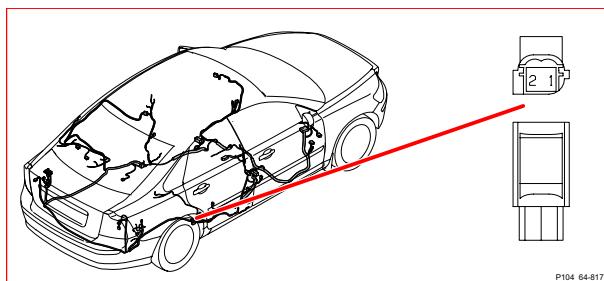
Component illustrations

64/599 - 64/978

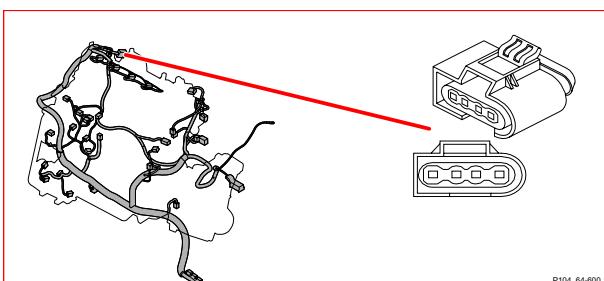
64/599 Connector



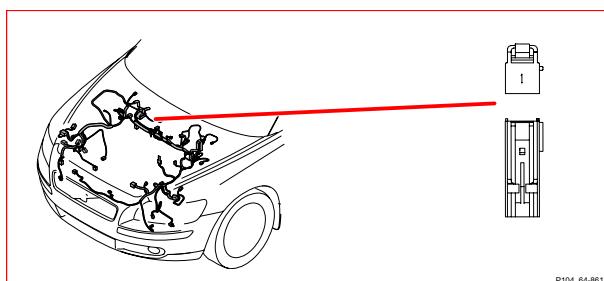
64/817 Connector



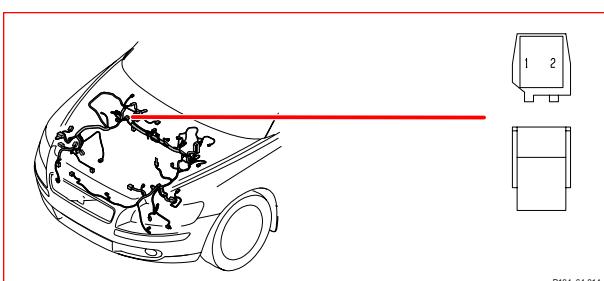
64/600 Connector



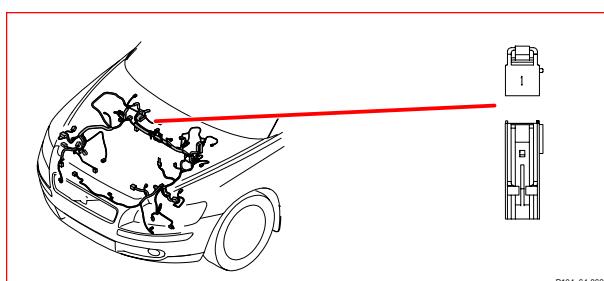
64/861 Connector



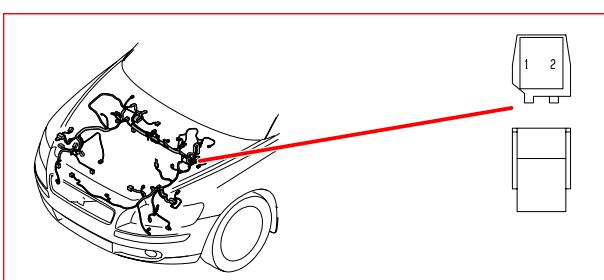
64/814 Connector



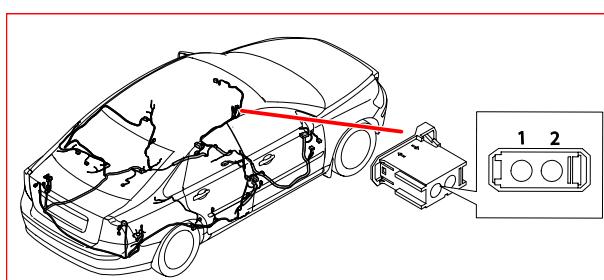
64/862 Connector



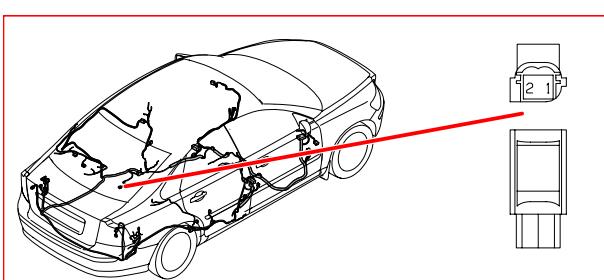
64/815 Connector



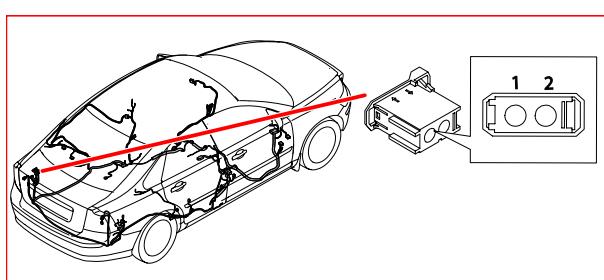
64/977AConnector



64/816 Connector



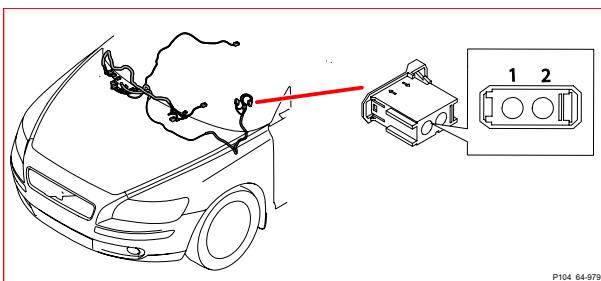
64/978 Connector



Component illustrations

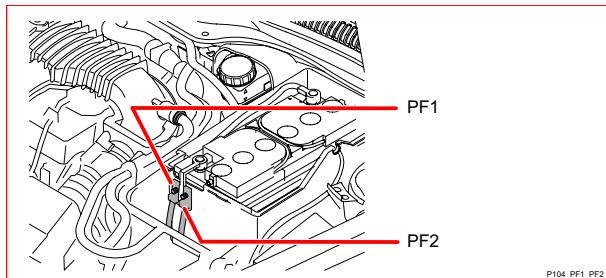
64/979 - 64X/322

64/979 Connector



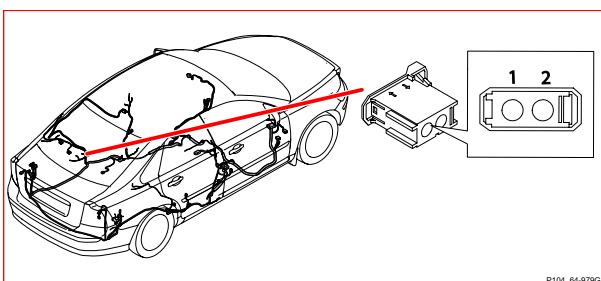
P104_64-979

PF/no. Main fuse by battery



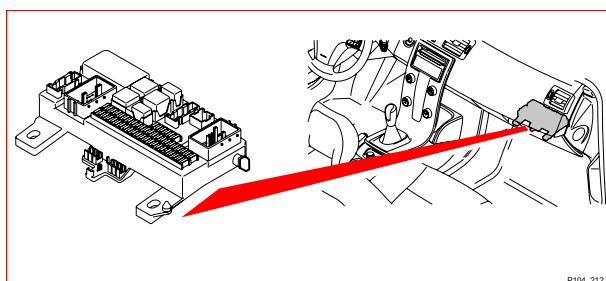
P104_PF1_PF2

64/979GConnector



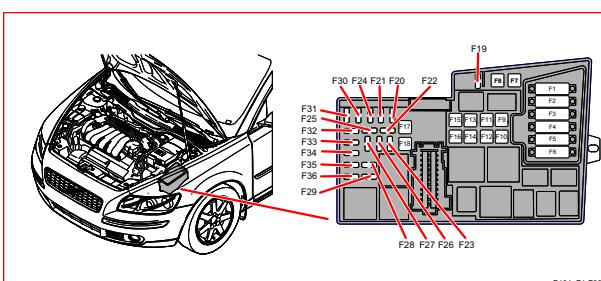
P104_64-979G

R/no. Relay



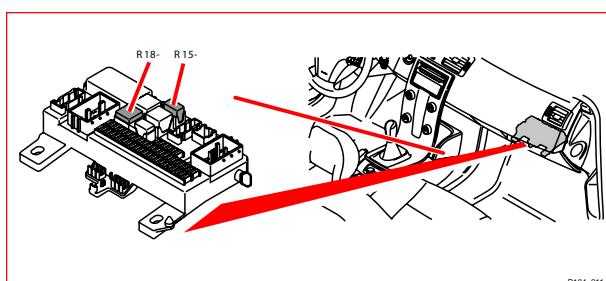
P104_212

F/no. Fuse



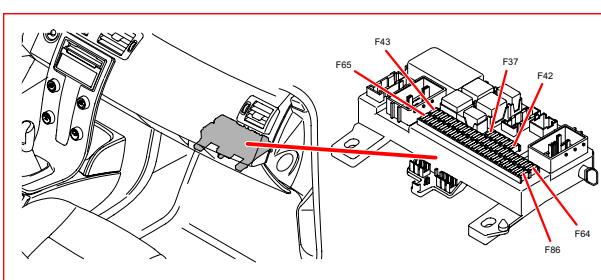
P104_F1-F36

R/no. Relay



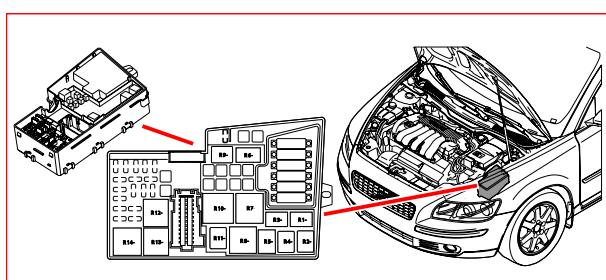
P104_211

F/no. Fuse



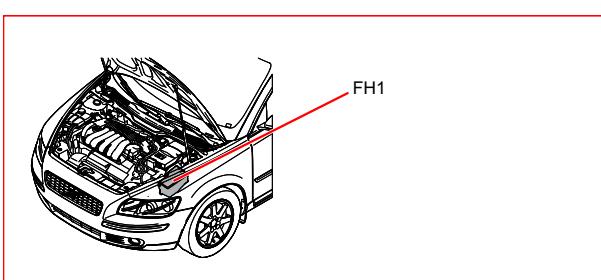
P104_F43-F86

R/no. Relay



P104_215

FH/no. Fuse in holder



P104_FH1

10X/17 Connector interface, original car
10X/18 Connector interface, original car
16X/105Connector interface, original car
17X/19 Connector interface, original car
64X/12 Connector interface, original car
64X/322Connector interface, original car

Index

12V outlet	89
A	
Abbreviations	5
Accessories	73, 87, 90, 91, 92, 100, 101, 134
Accessory Electronic Module (AEM)	39, 87
Additional electrical equipment, Group 36	74
Anti-theft alarm	84
Audio	96
Auto-dimming rear-view mirror	135
Automatic headlight leveling (Bi-Xenon)	62
Automatic transmission	102
Auxiliary light	73
B	
Bi-Xenon flashing hazard lights (Bi-Xenon)	76
Brake control system	105
Brake control system & DSTC	107
Brake control system & STC	106
Brake lights	67
Brake system, Group 59	105
Branching points	160
C	
Cable harnesses' routing in the vehicle	169
Cellular phone	98
Central Electronic Module (CEM)	30
Central locking, front doors	109
Central locking, fuel filler flap	113
Central locking, rear doors	110
Central locking, trunk lid/tailgate	111
Child safety lock	112
Climate control system	128
Climate control system 4-cyl	126
Climate control system Diesel	130
Climate control system PTC elements	132
Climate controls, Group 87	133
Color abbreviations	5
Component illustrations	181
Connectors	138
Control module steering column lock	81
Control modules	28
Cooling fan	51
Cooling fan, Diesel	52
Cooling system, Group 26	51
Countries/Markets, abbreviations	5
Cruise control	53
Cruise control, Diesel	54
D	
Data communication High speed CAN	36
Data communication LIN	34
Data communication Low speed CAN	32
Data communication MOST	37
Diagnostics system	88
Direction indicators	75
Direction indicators, Bi-Xenon	76
Doors and openings, Group 83	109
Driver information module	94
E	
Electrical distribution overview	8
Electronic power steering	108
Emission control 4-cyl 1.8	48
Emission control, 5-cyl	49
Emission control, 5-cyl Turbo	50
Engine control, Group 27	53
Engine management system Diesel	46
Engine management system, 4-cyl 1.8l	40
Engine management system, 5-cyl	42
Engine management system, 5-cyl Turbo	44
Exterior decorative elements, etc., Group 84	118
F	
Flashing hazard light	75
Fog lights	65
Fog lights LHD, Japan	66
Follow-me-home lighting	69
Fuel system, Group 23	40
Fuses	14
Fuses by the battery	21
Fuses in the Central Electronic Module (CEM)	18, 19, 20
Fuses in the engine compartment	14, 15, 16, 17
G	
Alternator and voltage regulator, Group 32	55
Ground connections	22, 23, 24, 25, 26, 27
Group number, abbreviations	5
H	
Handsfree, accessories	101
Harness Ceiling S40	176
Harness Ceiling V50	176
Harness Dashboard	172
Harness Driver door	178
Harness engine	169
Harness Engine 4-cyl	169
Harness engine 5-cyl	169
Harness engine compartment, 4-cyl	171
Harness engine compartment, 5cyl	171
Harness engine, Diesel	170
Harness engine, Turbo	170
Harness Floor	174
Harness Floor V50	175
Harness Infotainment	173
Harness Passenger door	178
Harness Rear door	179
Harness Trunk/Tailgate	180
Harness Tunnel	177
Headlight washer	78
Heated door mirrors	119
Heated rear window	120
Heated seats	125
High and low beam	59
High and low beam (Bi-Xenon)	60
Horn	80
How to use the wiring diagrams	6
I	
Ignition switch and relays	10
Ignition switch symbols	5
Immobilizer	81
Instrument and control illumination	72
Instruments, Group 38	93
Interior lighting	70
Internal equipment, Group 88	136
K	
Keyless Vehicle Module (KVM)	82

Index 2

L

Lighting, Group 35	59
List of components	226, 227, 228, 229
List of symbols	7

M

Manual beam length adjustment	61
Memory function driver's seat	121, 122
MOST	37

O

Other, abbreviations	5
Other, Group 39	95
Overview of control module designations	29
Overview of control module locations	28
Overview of ground connections	22

P

Parking assistance, front	86
Parking assistance, rear	85
Power door mirrors	118
Power driver's seat with memory function	121, 122
Power seat, LHD left	123
Power seat, LHD right	124
Power sunroof	117
Power supply	55
Power supply, Diesel	56
Power windows, front doors	115
Power windows, rear doors	116
PTC element	132

R

Relay, electric engine heater	134
Relays	10

Relays in Engine compartment distribution box	11
Relays in the Central Electronic Module (CEM)	12
Relays, general	10
Reversing lights	68
Running/parking lights	63
Running/Parking lights, (Bi-Xenon)	64

S

Seat belt reminder	93
Shift interlock	103
Signal receiver, remote-control, central locking	114
Soldered relays	13
SRS	136
Start Control Module (SCU)	38
Starting system	57
Starting system, Diesel	58
Starting system, Group 33	57
Steering, Group 64	108
Subwoofer, accessories	100
Supplemental Restraint System (SRS)	136

T

Table of Contents	3
Tail lights	63
Tail lights (Bi-Xenon)	64
Tow hitch cable harness, 4-pin	90
Towbar cable harness, 13-pin	92
Towbar cable harness, 7-pin	91
Transmission M66	104
Transmission, Group 43	102

W

Windshield wiper/washer	77
Wiper/washer, rear window	79
Wiring and fuses, Group 37	88

List of components 1:4

1/1	Battery	3/173	Switch, trunk lid/tailgate private lock
2/16	Relay, rear window wiper	3/174	Switch, reduced alarm
2/17	Relay, horn	3/217	Belt buckle contact, left rear
2/22	Relay, climate control system	3/218	Belt buckle contact, center rear
2/23	Relay fuel pump	3/219	Belt buckle contact, right rear
2/32	Main relay, engine management system	3/254	Steering Wheel Module (SWM)
2/34	Relay, front fog lights	3/255	Position sensor, driver's seat
2/35	Relay, starter motor	3/256	Position sensor, passenger seat
2/63	Relay, high beam	3/258-3/265	Contact, locking
2/64	Relay, auxiliary light (accessory)	4/7	Control unit, telematics
2/80	Relay, reversing lights	4/9	Combustion Preheater Module (CPM)
2/82	Relay, heated rear window	4/16	Supplemental Restraint System Module (SRS)
2/89	Relay, interior lighting	4/28	Brake Control Module (BCM)
2/92	Relay, windshield washer motor	4/31	Transmission Control Module (TCM)
2/93	Relay, rear window washer motor	4/33	Fan control module
2/142	Relay, pre-heater, fuel filter	4/46	Sunroof control module
2/159	Relay, infotainment	4/46	Control module engine (ECM), 4-CYL
2/182	Relay, headlight washer motor	4/46	Control module engine (ECM), 5-CYL
2/192	Relay (230V) electric engine heater, 4-CYL	4/46	Control module engine (ECM), Turbo
2/192	Relay (230V) electric engine heater, 5-CYL	4/52	Engine Control Module (ECM), Diesel
2/193	Relay, comfort functions	4/56	Power Seat Module (PSM)
3/1	Ignition switch	4/71	Central Electronic Module (CEM)
3/4	Control unit, cruise control (SWS)	4/78	Cooling fan control module
3/6	Switch, hazard warning flashers	4/82	Accessory Electronic Module (AEM)
3/8	Switch, electrically heated rear window/rear-view mirrors	4/83	Differential Electronic Module (DEM)
3/9	Contact brake light	4/86	Control module fuel pump
3/10	Reversing light contact	4/93	Control module, Parking Assistance Module (PAM)
3/25	Switch, power sunroof	4/102	Keyless Vehicle Module (KVM)
3/26	Switch unit, power driver's seat	4/103	Steering Column Lock Module (SCL)
3/27	Switch unit, power passenger seat	4/103	Remote Entry (RRX)
3/35	Switch, handle trunk/tailgate	4/109	Remote Entry (RRX), Keyless vehicle
3/37	Contact horn	4/110	Glow plug control module
3/39	Contact clutch pedal, Gasoline	4/111	Trailer Module (TRM)
3/39	Contact clutch pedal, Diesel	4/112	Additive Dosing Module (ADM)
3/46	Seat contact, passenger seat	4/113	Control module, gas discharge lamp master, left
3/47	Parking brake contact	5/1	Control module, gas discharge lamp slave, right
3/60	Switch, auxiliary lights	6/1	Driver Information Module (DIM)
3/62	Hood alarm contact	6/2	Wiper Motor Module (WMM)
3/74	Lock unit, driver's door	6/16	Washer pump
3/75	Lock unit, passenger door	6/17	Motor driver's seat, backrest angle
3/76	Lock unit, left rear door	6/18	Motor driver's seat, up/down front edge
3/77	Lock unit, right rear door	6/19	Motor driver's seat, up/down rear edge
3/78	Lock unit, trunk lid/tailgate	6/20	Motor driver's seat, fore/aft
3/80	Switch, central locking driver's door	6/25	Motor passenger seat, fore/aft
3/81	Switch, power windows driver's door	6/26	Starter motor
3/82	Switch, central locking passenger door	6/28	Alternator
3/83	Switch, power window passenger door	6/29	Motor, passenger compartment fan
3/85	Power window switch, left rear door	6/32	Motor, electric cooling fan
3/86	Power window switch, right rear door	6/33	Rear window wiper motor
3/93	Contact belt buckle, driver's seat	6/35	Fuel pump
3/94	Contact belt buckle, passenger seat	6/37	Fuel pump, auxiliary heater
3/95	Spin control switch	6/38	Lock motor, fuel filler flap
3/111	Switch unit, lights	6/39	Motor, left headlight adjustment
3/112	Climate Control Module (CCM)	6/48	Motor, right headlight adjustment
3/117	Switch unit, ceiling light	6/62	Damper motor, recirculation
3/126	Driver's Door Module (DDM)	6/63	Power rear-view mirror driver's door
3/127	Passenger Door Module (PDM)	6/64	Power rear-view mirror passenger door
3/128	Left Rear Door Module (LDM)	6/65	Motor passenger seat, backrest angle
3/129	Right Rear Door Module (RDM)	6/66	Motor passenger seat, up/down front edge
3/155	Program selector, automatic transmission	6/67	Motor passenger seat, up/down rear edge
3/156	Gear Selector Module (GSM)	6/71	Pump, fuel leakage control
3/157	Switch, Passenger Airbag Cut Off Switch (PACOS)	6/73	Electrical Power Steering Module (EPS)
		6/95	Coolant pump, auxiliary heater
		6/96	Damper motor, temperature, left-hand side
			Damper motor, temperature, right-hand side

List of components 2:4

6/99	Engine EGR	7/164	Body Sensor Cluster (BSC)
6/102	Damper motor, defroster	7/165	Pressure and temperature sensor, intake manifold
6/103	Damper motor, floor/ventilation		Position sensor camshaft, intake side
6/104	Pump, high pressure headlight washer	7/172	Position sensor camshaft, exhaust side
6/114	Vacuum pump	7/173	Front impact sensor, right
6/117	Interior temperature sensor	7/178	Front impact sensor, left
6/120	Engine throttle body	7/179	Remote control IR sensor, RTI
7/3	Temperature sensor battery	7/193	Position sensor turbo
7/4	Brake fluid level sensor	7/194	Sensor belt roller, driver
7/5	Washer fluid level sensor	7/195	Sensor belt roller, passenger
7/6	Oil pressure monitor, 4-CYL	7/204 -7/207	Sensor parking assistance 5-8
7/6	Oil pressure monitor, 5-CYL		
7/6	Oil pressure monitor, Turbo	8/3	Electromagnetic clutch, climate control system
7/6	Oil pressure monitor, Diesel	8/6-10	Injection valves
7/8	Pressure sensor, climate control system	8/18	EVAP valve
7/12	Solar sensor, twilight sensor and indicator alarm	8/19	Solenoid, variable valve timing, intake
7/15	Heated oxygen sensor, front	8/28	Turbocharger control valve
7/16	Sensor, coolant temperature	8/30	Igniter airbag, driver's side
7/17	Mass air flow sensor MAF, 5-CYL	8/31	Airbag igniter, passenger side
7/17	Mass air flow sensor MAF, Turbo	8/32	Igniter, airbag stage 2, passenger side
7/17	Mass airflow sensor MAF, Diesel	8/33	Igniter, belt tensioner, driver's side
7/24	Knock sensor front, 4-CYL	8/34	Igniter, belt tensioner, passenger side
7/24	Knock sensor front, 5-CYL	8/36	Solenoid shift lock
7/24	Knock sensor front, Turbo	8/37	Automatic transmission
7/25	Impulse sensor, 4-CYL	8/38	Shift solenoid 1
7/25	Impulse sensor, 5-CYL	8/39	Shift solenoid 2
7/25	Impulse sensor, Turbo	8/40	Lock-up solenoid
7/25	Impulse sensor, Diesel	8/41	Pressure solenoid
7/31	Sensor ABS, front left	8/48	Auto-dimming rearview mirror
7/32	Sensor ABS, front right	8/51	Igniter side airbag, driver's side
7/41	Temperature sensor evaporator	8/52	Igniter side airbag, passenger side
7/51	Accelerator pedal sensor	8/55	Igniter, left rear belt tensioner
7/56	Sensor ABS, rear left	8/56	Igniter, right rear belt tensioner
7/57	Sensor ABS, rear right	8/61	Igniter airbag, driver's side, stage 2
7/61	Sensor input speed	8/66	Igniter, left inflatable curtain
7/62	Sensor output speed	8/67	Igniter, right inflatable curtain
7/69	Sensor outdoor temperature	8/68	Bypass valve
7/71	Sensor boost pressure	8/71	Throttle solenoid
7/74	Sensor oil temperature, automatic transmission	8/72	Shift solenoid 3
7/77	Temperature sensor, intake air 1	8/73	Shift solenoid 4
7/77	Temperature sensor, intake air 2	8/74	Shift solenoid 5
7/81	Pressure sensor, intake manifold	8/77	Control valve fuel volume
7/82	Heated oxygen sensor, rear	8/81	Solenoid, variable valve timing outlet
7/93	Occupant Weight Sensor (OWS)	8/82	Solenoid, variable turbo geometry
7/100	Level sensor alarm, S40	8/84	Switch, vacuum pump
7/100	Level sensor alarm, V50	8/92	Lap belt tensioner, driver
7/108	Side impact sensor, rear left	8/99	Igniter, steering column
7/109	Side impact sensor, rear right	8/119	Pressure monitor, climate control system
7/110	Sensor temperature driver's seat	8/120	EGR valve
7/111	Sensor temperature passenger seat	8/120	EGR valve, Diesel
7/115	Side impact sensor, front left	8/121	Valve coolant
7/116	Side impact sensor, front right	8/127	Pressure switch, climate control system
7/120	Angle sensor, Bi-Xenon rear	8/128	Driver's belt force limiter
7/121	Angle sensor, Bi-Xenon front	8/129	Passenger belt force limiter
7/122	Mass movement sensor, front	8/131	Shut-off valve, expansion tank
7/123	Sensor clutch pedal, Gasoline	8/132	Control valve inlet
7/123	Sensor clutch pedal, Diesel	8/133	Control valve fuel pressure
7/124	Sensor brake pedal	8/134	Solenoid, reverse interlock, manual
7/131-7/134	Sensor parking assistance 1-4	9/1	Front 12V outlet
7/143	Sensor fuel level, pump side	9/2	Heated rear window
7/149	Rain Sensor Module (RSM)	9/12	Seat Heater Module (SHM), driver's side
7/154	Sensor fuel temperature	9/13	Seat Heater Module (SHM), passenger side
7/156	Pressure and temperature sensor fuel, 5-CYL	9/16	Heating coil, backrest driver's seat
7/156	Pressure and temperature sensor fuel, Turbo	9/17	Heating coil, backrest passenger seat
7/158	Mass movement sensor rear	9/18	Heating coil, seat cushion driver's seat
7/159	Air quality sensor	9/19	Heating coil, seat cushion passenger seat
7/162	Pressure sensor, fuel line	9/25	Rear 12V outlet

List of components 3:4

9/30	Auxiliary heater	16/26	Speaker, dashboard middle, RTI
9/32	PTC resistor, oil trap	16/35	Siren (SCM), S40
9/33	Electrically heated rear-view mirror, driver's door	16/35	Siren (SCM), V50
9/34	Electrically heated rear-view mirror, passenger door	16/46	RTI Display
9/38	Electrically heated fuel filter	16/49	GPS antenna RTI
9/41	PTC-element	16/55	Traffic Message Channel Module (TMC)
		16/56	Treble speaker, driver's door
		16/60	Treble speaker, passenger door
10/1	Lamp housing, front left	16/62	Phone Module (PHM)
10/2	Lamp housing, front right	16/64	Hand unit, cellular phone
10/3	License plate lighting	16/79	Antenna, cellular phone
10/5	Fog light, front left	16/93	Subwoofer Module (SUB)
10/6	Fog light, front right	16/94	Control module, cellular phone handsfree
10/11	Running/parking light, front left	16/98	AM/FM Tuner Module (AFM)
10/12	Running/parking light, front right	16/105	Microphone
10/13	Direction indicator, front left	16/107	Audio Module (AUD)
10/14	Direction indicator, front right	16/108	Media Player Module (MPM)
10/15	Direction indicator, rear-view mirror driver's door	16/126	Multimedia Module (MMM)
10/16	Direction indicator, rear-view mirror passenger door	16/127	Holder, handsfree cellular phone
10/17	Lamp housing, rear right	16/128-16/131	Microphone, handsfree cellular phone
10/18	Lamp housing, rear left	16/132	Antenna door lock front
10/19	Brake light extra	16/133	Antenna door lock cargo compartment
10/22	Ceiling light	16/134	Antenna door lock cabin 1 rear
10/24	Cargo compartment lighting	16/135	Antenna door lock cabin 2
10/25	Ceiling light, cargo compartment	16/136	Antenna door lock cabin 3
10/29	Glove compartment lighting	16/137	Treble speaker, left rear door
10/43	Brake light, right	16/138	Treble speaker, right rear door
10/44	Tail light 1, right	16/139	Rear window antenna, right
10/45	Tail light 2, right	16/140	Global Positioning System Module (GPS)
10/46	Fog light, right rear	16/141	SIM card reader
10/47	Direction indicator, right rear	16/142	Interference filter, rear window, left
10/48	Reversing light, right	17/13	Interference filter, rear window, right
10/50	Brake light, left	17/19	Data link connector
10/51	Tail light 1, left	17/37	12V outlet, cargo compartment
10/52	Tail light 2, left	17/38	4-pin outlet, tow hitch cable harness
10/53	Fog light, left rear	17/39	7-pin outlet, tow hitch cable harness
10/54	Direction indicator, left rear	18/4	13-pin outlet, tow hitch cable harness
10/55	Reversing light, left		Contact reel
10/64	High beam, right	20/3-7	Spark plug and ignition coil
10/65	Auxiliary light, front right	20/22-25	Glow plug
10/66	Low beam, right		
10/68	High beam, left	31/3	Ground connection, Left strut tower
10/69	Auxiliary light, front left	31/4	Ground connection, Engine
10/70	Low beam, left	31/6	Ground connection, A-pillar driver side
10/97	Courtesy lighting, left	31/10	Ground connection, A-pillar passenger side
10/102	Courtesy lighting, right	31/11	Ground connection, Left side rear, S40
10/114	Vanity mirror lighting, left	31/11	Ground connection, Left side rear, V50
10/115	Vanity mirror lighting, right	31/12	Ground connection, Right side rear, S40
10/148	Lighting, rear-view mirror driver's door	31/12	Ground connection, Right side rear, V50
10/149	Lighting, rear-view mirror passenger door	31/52	Ground connection, Left strut tower
10/150	Rear reading light	31/66	Ground connection, Left B-pillar
		31/67	Ground connection, Right B-pillar
11/1	Suspended fuse (cargo compartment)	31/80	Ground connection, Left strut tower
		31/83	Ground connection, A-pillar driver side
15/31	Distribution box in engine compartment	31/84	Ground connection, A-pillar passenger side
		31/88	Ground connection, Engine
16/1	Infotainment Control Module (ICM)	31/89	Ground connection, Engine
16/3	Speaker, passenger door	31/102	Ground connection, Frame member, Gasoline
16/4	Speaker, driver's door	31/102	Ground connection, Frame member, Diesel
16/5	Speaker, right rear door	31/110	Ground connection, Right strut tower
16/6	Speaker, left rear door	31/112	Ground connection, Right strut tower
16/9	Window antenna	31/114	Ground connection, Left strut tower
16/10	Horn 1	31/115	Ground connection, Left A-pillar
16/11	Horn 2	31/116	Ground connection, Right A-pillar
16/16	Window antenna amplifier	31/119	Ground connection, Left strut tower
16/26	Speaker, dashboard middle		

List of components 4:4

63/no.	Branching point	64/600	Connector
64/12	Connector	64/814	Connector
64/18	Connector	64/815	Connector
64/25G	Connector	64/816	Connector
64/30	Connector	64/817	Connector
64/31	Connector	64/861	Connector
64/34	Connector	64/862	Connector
64/40	Connector	64/977A	Connector
64/41	Connector	64/978	Connector
64/43	Connector	64/979	Connector
64/45	Connector	64/979G	Connector
64/47	Connector	F/no.	Fuse
64/48	Connector S40	F/no.	Fuse
64/48	Connector V50	FH/no.	Fuse in holder
64/50	Connector	PF/no.	Main fuse by battery
64/51	Connector	R/no.	Relay
64/79V	Connector	R/no.	Relay
64/81	Connector	R/no.	Relay
64/90	Connector		
64/111	Connector	10X/17	Connector interface, original car
64/112	Connector	10X/18	Connector interface, original car
64/113	Connector	16X/105	Connector interface, original car
64/322	Connector	17X/19	Connector interface, original car
64/425	Connector	64X/12	Connector interface, original car
64/545	Connector	64X/322	Connector interface, original car
64/599	Connector		