

VOLVO C30, S40, V50 & C70

WIRING DIAGRAM 2008 SUPPLEMENT



TP 39126202

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 VIDA.
- Certain components of the aforementioned systems must be grounded while working. Read the appropriate sections in VIDA.
- 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 including October 2008

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 the vehicles in your country.

Order number: TP 39122002

TP 39126201 Supplement is found in Electronic Wiring Diagram (EWD) TP 39122002. TP39126201 contains updated information for model year 2008 late edition. For other electrical systems, see publication TP39114202.

We retain the right to make modifications.

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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 control system
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
J	= Japan
KOR	= Korea
N	= Norway
NL	= Netherlands
S	= Sweden
USA	= United States of America
WEU	= Western Europe

Other

AUTO	= Automatic transmission
AWD	= All wheel drive
CAN	= CAN communication
D	= 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	= Infrared sensor
LIN	= LIN communication
LHD	= Left-hand drive
LOSPEED	= Low speed data bus
MAN	= Manual transmission
MEMORY	= Memory driver's seat
MMS	= Mass Movement Sensor
PETROL	= Gasoline
RHD	= Right-hand drive
SCR	= Screened
SRS	= Airbag
T	= Turbocharged engine
W/O	= Without
2WD	= Two-wheel drive
4CYL, I4	= 4-cylinder engine
5CYL, I5	= 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, e.g. x/2.

Together, this constitutes a component designation, e.g. 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	Light
11	Fuse
15	Electrical distribution rail/box
16	Audio
17	Service/diagnostics
18	Contact reel
19	Meter
20	Ignition component/shunt
26	Converter
27	Optics
31	Ground connection
63	Branching point
64	Connector

B. Branching points

The wiring diagrams contain numbered junction points, e.g. 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".

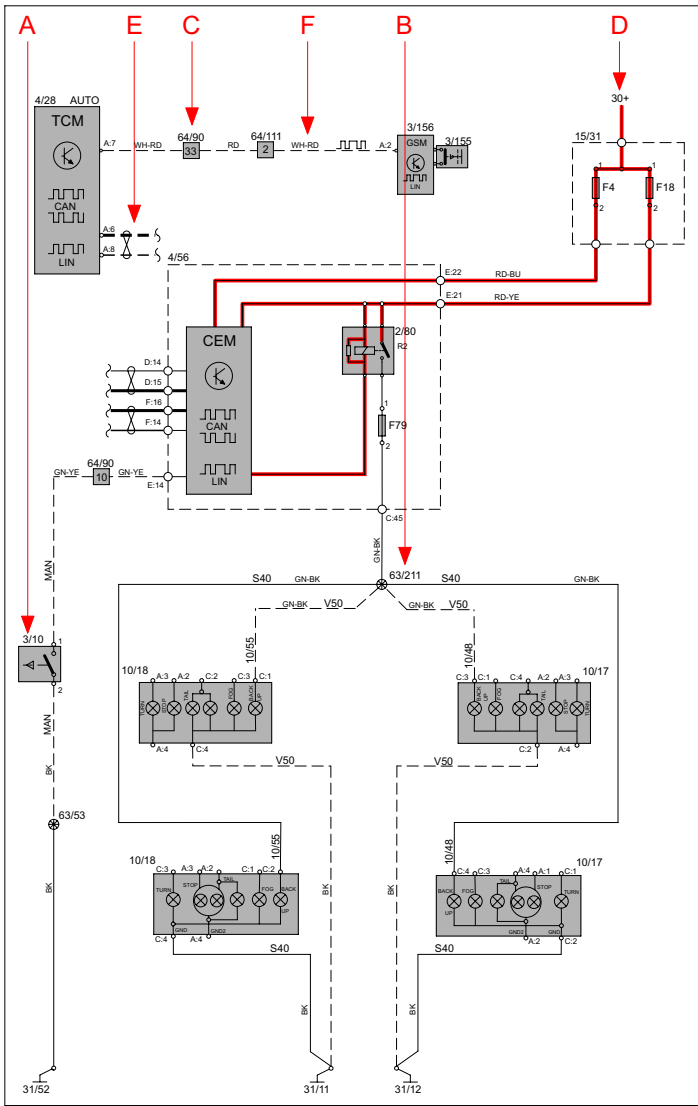
F. Abbreviations

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

G. Component location

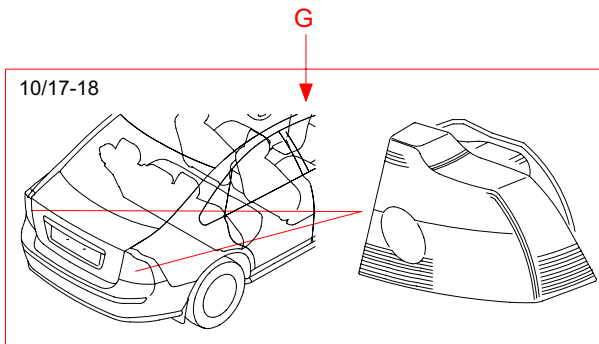
There is a section at the end of the manual in which the appearance and location of components is described in numerical order.

How to use the wiring diagrams 2:2

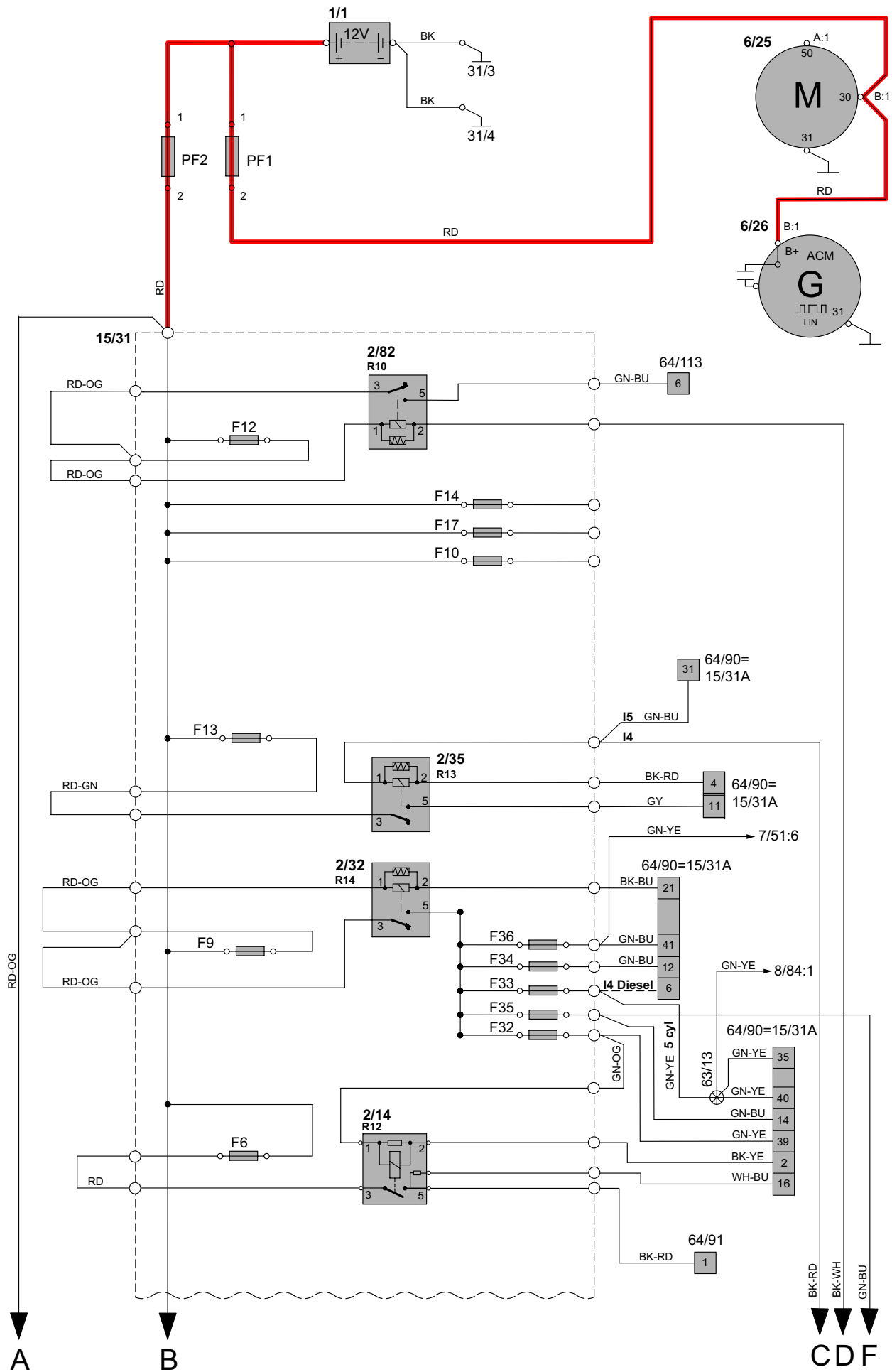


Explanation of symbols

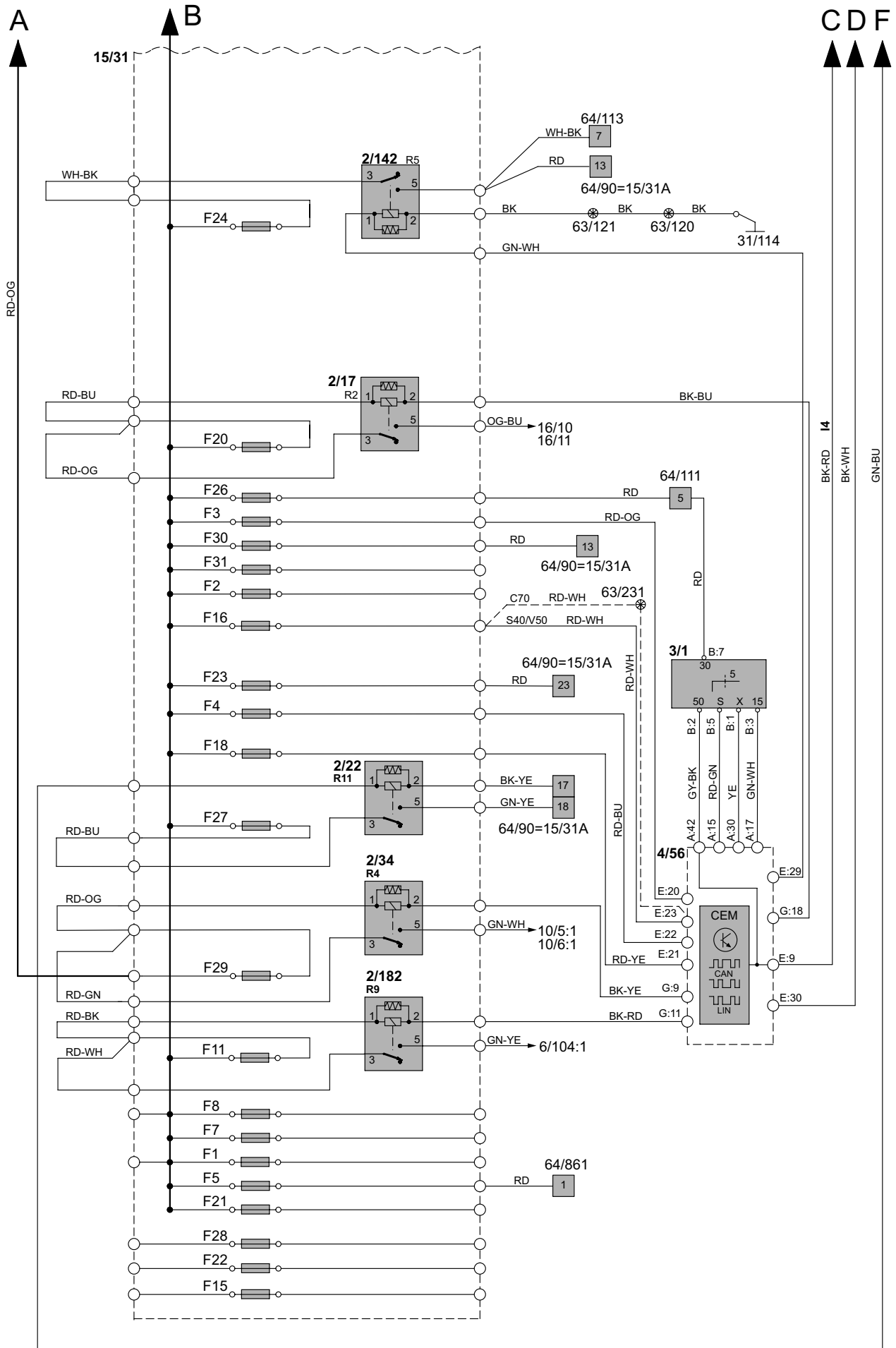
- = System voltage
- = Ground connection via wiring
- = Ground connection in component/chassis
- = Screened wire
- = Junction point
- = Twisted cable
- = Electrical connection
- = Variant
- = CAN communication
- = CAN high data signal (CAN H)
- = CAN low data signal (CAN L)
- = LIN communication
- =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



Electrical distribution 1:2 Overview

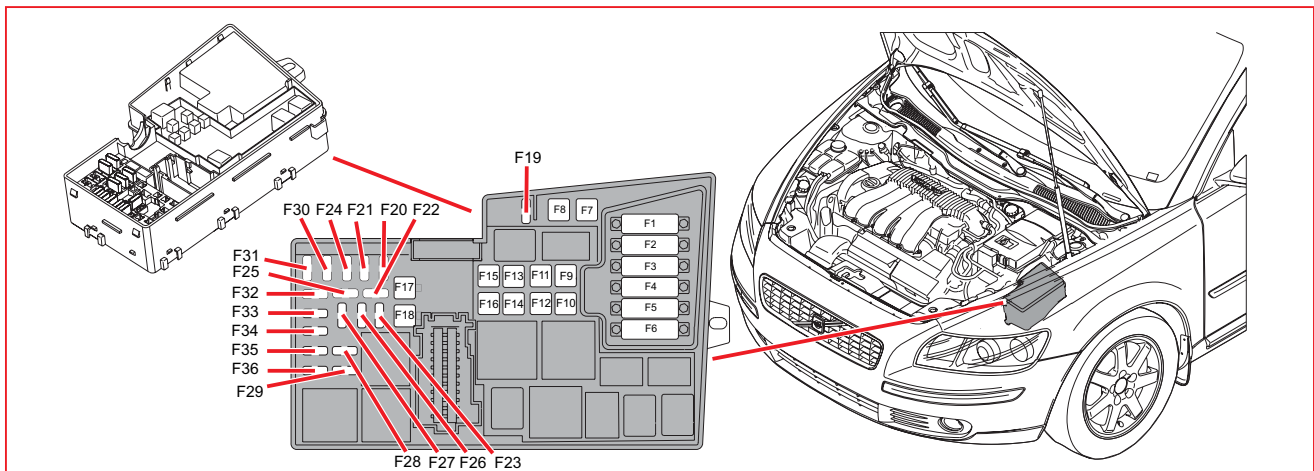


Electrical distribution 2:2 Overview



Fuses

Engine compartment distribution box F1-F11

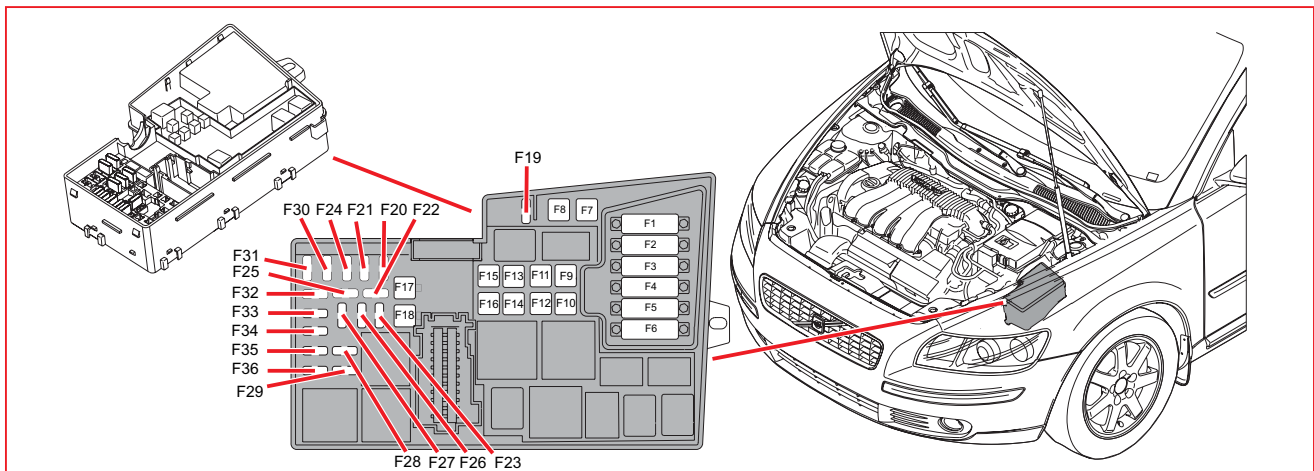


15/31 Engine compartment distribution box

No.	Fuse function	via	A
F1	4/71 Cooling fan control module	-	50
F3	2/193 Relay, comfort functions 4/56 Central Electronic Module (CEM) 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 Fuse in the Central Electronic Module (CEM) F84-F85 Fuses in the Central Electronic Module (CEM)	- 2/193 2/193 2/193 2/193 - 2/193 2/193 -	60
F4	2/63 Relay, high beam 4/56 Central Electronic Module (CEM) 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
F6	4/109 Glow plug control module (GCU), 5-cyl. Diesel 20/23-26 Glow plug, 4-cyl. Diesel	-	70
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	2/182 Relay, headlight washer motor 4/59 Convertible Roof Module (CRM), C70 6/104 Pump, high pressure headlight washer	- - 2/182	20
continues			

Fuses

Engine compartment distribution box F13-F24

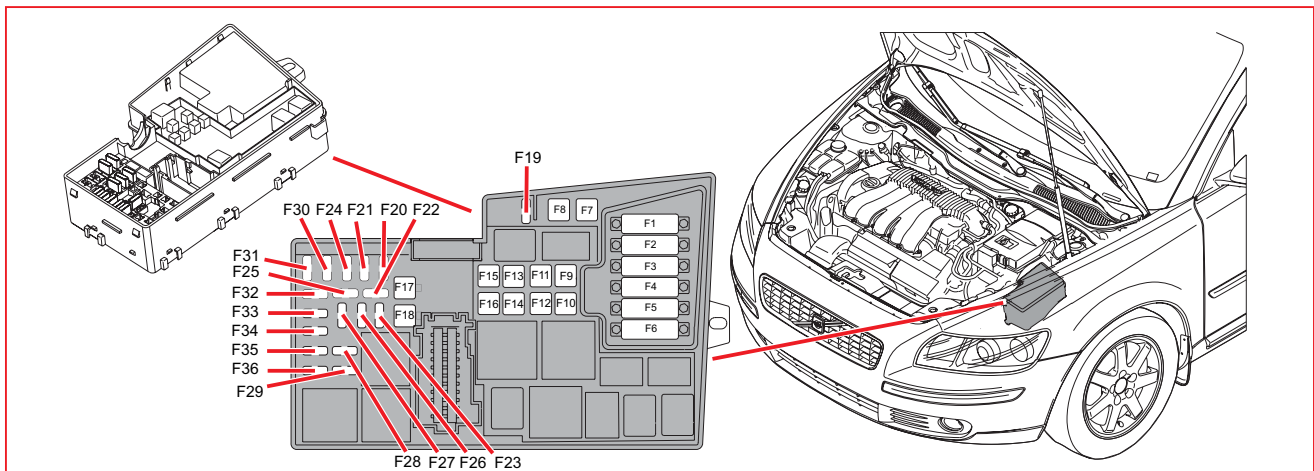


15/31 Engine compartment distribution box

No.	Fuse function	via	A
F13	6/25 Starter motor	2/35	30
F16	2/159 Infotainment relay, S40/V50/C30 16/105 Audio module (AUD), S40/V50/C30 F22 Fuse, engine compartment distribution box, S40/V50/C30 F43 Fuse in the Central Electronic Module (CEM), S40/V50/C30 F64 Fuse in the Central Electronic Module (CEM), S40/V50/C30 F65-F67 Fuses in the Central Electronic Module (CEM), S40/V50/C30	- - - - - 2/159	30
F16	2/159 Infotainment relay, C70 16/105 Audio module (AUD), C70 F22 Fuse, engine compartment distribution box, C70 F43 Fuse in the Central Electronic Module (CEM), C70 F64 Fuse in the Central Electronic Module (CEM), C70 F65-F67 Fuses in the Central Electronic Module (CEM), C70	- - - - - 2/159	40
F17	6/1 Wiper Motor Module (WMM)	-	30
F18	2/80 Relay, reversing light 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
F23	4/28 Transmission Control Module (TCM) 4/46 Engine Control Module (ECM), 5-cyl.	- -	10
F24	9/32 PTC-resistor, crankcase ventilation, 5-cyl. Diesel 9/38 Heated fuel filter, 5-cyl. Diesel	2/142 2/142	20
continues			

Fuses

Engine compartment distribution box F26-F33

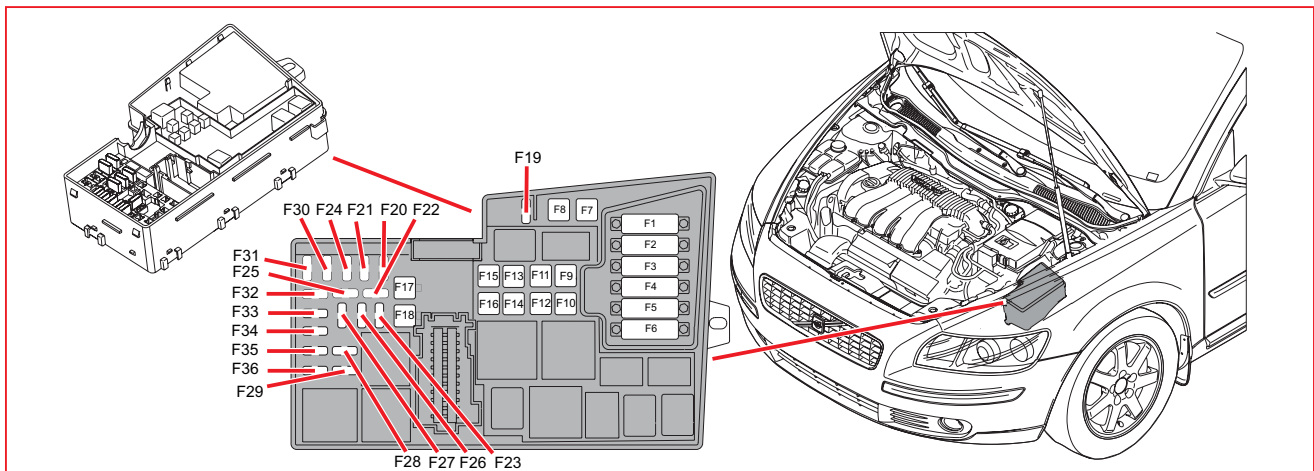


15/31 Engine compartment distribution box

No.	Fuse function	via	A
F26	2/35 Relay, starter motor 3/1 Start Control Module (SCU) 4/56 Central Electronic Module (CEM) 11K/1 Fuse in holder 11K/2 Fuse in holder 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 - 3/1 3/1 - 3/1 3/1 3/1	15
F27	8/3 Electromagnetic clutch, climate control system	2/22	10
F30	4/46 Engine Control Module (ECM), 2.0l Diesel, 1.6l Gasoline	-	3
F31	6/26 Alternator, 4-cyl.	-	10
F32	2/14 Relay, glow plug system 6/143 Regulator motor, Turbo 7/15 Front heated oxygen sensor, 4-cyl. 7/17 Mass air flow sensor (MAF), 5-cyl. Diesel 7/82 Rear heated oxygen sensor, 4-cyl. 8/6-8/10 Injection valves, 5-cyl. 8/121 Coolant valve, 2.0l Diesel 8/122 Bypass valve, intercooler, 1.6l Diesel	- - - - - - - -	10
F33	4/46 Engine control module (ECM), 5-cyl. Diesel 6/114 Vacuum pump, 5-cyl. 7/15 Front heated oxygen sensor, 5-cyl. 7/82 Rear heated oxygen sensor, 5-cyl. Turbo 7/186 Heated oxygen sensor, rear, 5-cyl. without Turbo 7/187 Heated oxygen sensor, center 5-cyl. without Turbo 8/84 Switch, vacuum pump 9/32 PTC-resistor, crankcase ventilation, 2.0l. Diesel 9/38 Heated fuel filter, 4-cyl. Diesel	- 8/84 - - - - - - - -	20
continues			

Fuses

Engine compartment distribution box F34-F36

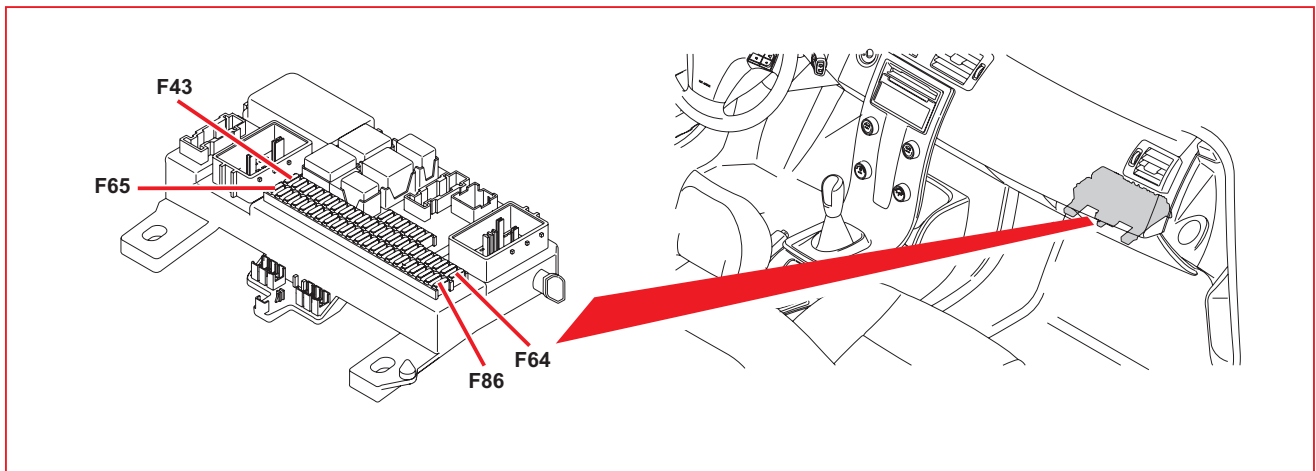


15/31 Distribution box in engine compartment

No.	Fuse function	via	A
F34	4/109 Glow plug control module (GCU), 5-cyl. Diesel 8/6-8/9 Injection valves, 1.6l 8/77 Fuel volume control valve, 2.0l Diesel 8/111 Fuel flow control valve, 1.6l Diesel 8/113 Bypass valve, EGR cooling 8/119 Pressure monitor, climate control system, 5-cyl. 8/120 EGR valve, 5-cyl. Diesel 8/133 Control valve fuel pressure 20/3 -20/7 Spark plug and ignition coil 20/17 Transformer, ignition coils, 1.6l	- - - - - - - - -	10
F35	2/22 Relay, climate control system 4/46 Engine control module (ECM), 5-cyl. Diesel 6/67 Fuel leakage control pump, 5-cyl. 6/99 EGR motor, 1.6l Diesel, 1.8l Gasoline 7/17 Mass air flow sensor (MAF), 5-cyl. Gasoline, 4-cyl. Diesel 7/192 Water detection sensor, 4-cyl. Diesel 8/6-8/9 Injection valves, 1.8l 8/18 EVAP valve, Gasoline 8/19 Solenoid, variable valve timing, intake, 5-cyl. Gasoline 8/28 Turbocharger control valve, 2.5l Turbo 8/45 Vacuum valve, variable intake manifold, 1.8l 8/65 Pressure switch, power steering, 1.6l 8/77 Fuel volume control valve, 2.0l Diesel 8/81 Solenoid, variable valve timing, exhaust, 2.5l Turbo 8/82 Solenoid, variable turbo geometry, 4-cyl. Diesel 8/114 Valve, air/fuel mixing, 1.8l 8/132 Control valve, intake, 2.0l Diesel 9/32 PTC-resistor, crankcase ventilation 5-cyl. Gasoline	- - 2/22 - - - - - - - - - - - - - - - -	15
F36	4/46 Engine Control Module (ECM) 7/15 Front heated oxygen sensor, 5-cyl. Diesel 7/51 Accelerator pedal sensor	- - -	10

Fuses

Central Electronic Module (CEM) F46-F66

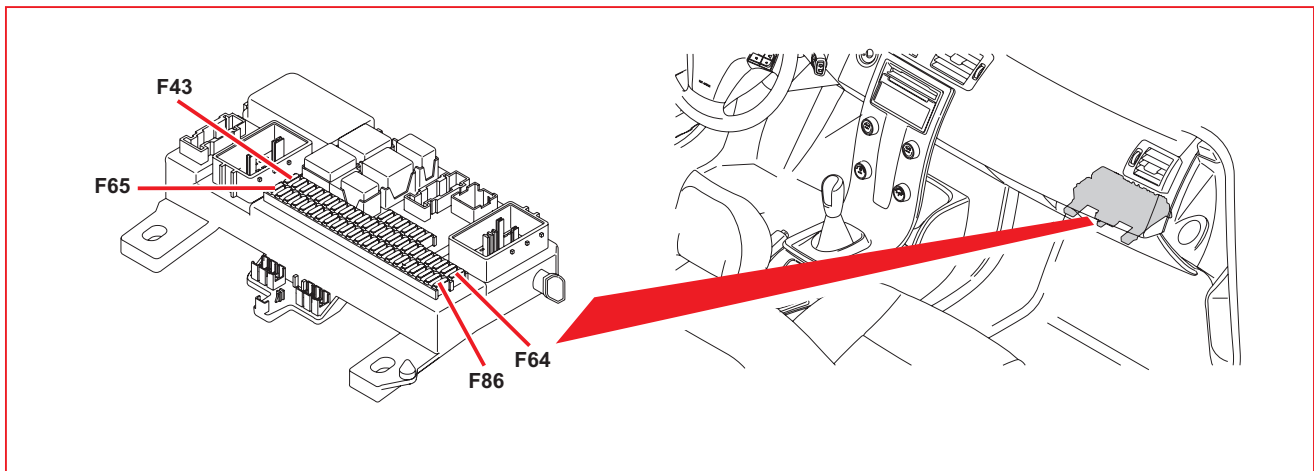


4/56 Central Electronic Module (CEM)

No.	Fuse function	via	A	
F46	3/111	Switch unit, lights	-	5
	5/1	Driver Information Module (DIM)	-	
	10/1	Lamp housing, front left	-	
	10/2	Lamp housing, front right	-	
	10/29	Glove compartment lighting	-	
	10/97	Courtesy lighting, left	-	
	10/102	Courtesy lighting, right	-	
		Alcolock	-	
F48	2/16	Relay, rear window wiper	-	15
	2/92	Relay, windshield washer motor	-	
	2/93	Relay, rear window washer motor	-	
	6/2	Washer pump	2/92	
	6/32	Rear window wiper motor	2/16	
F51	2/142	Fuel filter preheater relay	-	10
	4/82	Differential Electronic Module (DEM)	-	
	9/41	PTC-element	-	
F52	4/16	Brake Control Module (BCM)	-	5
	4/28	Transmission Control Module (TCM)	-	
F57	3/9	Contact brake light	-	15
	17/13	Data link connector	-	
F66	3/112	Climate Control Module (CCM)	-	10
	16/1	Integrated Audio Module (IAM)	-	
	16/1.2	Infotainment Control Module (ICM)	-	
continues				

Fuses

Central Electronic Module (CEM) F68-F86

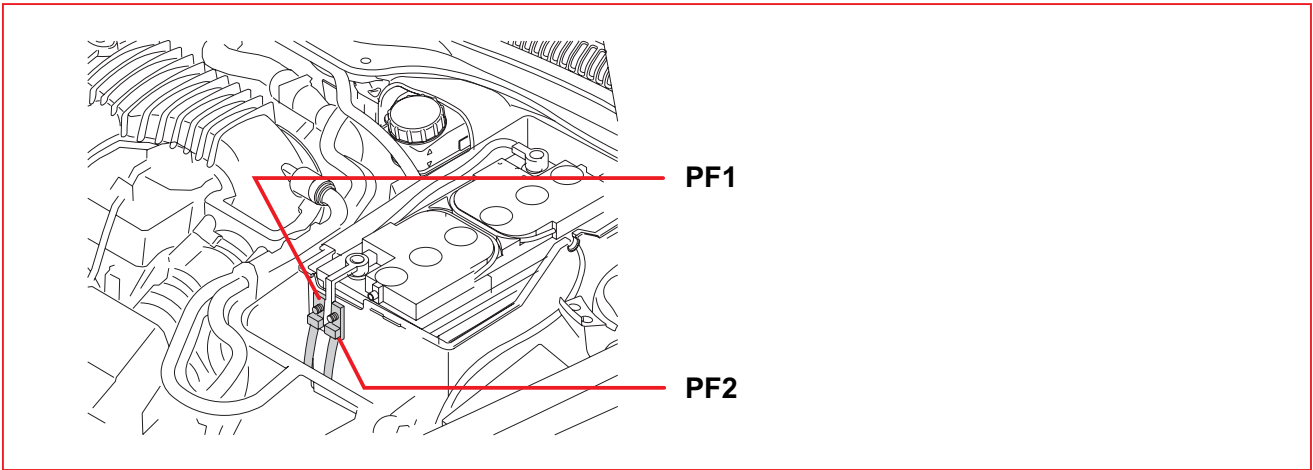


4/56 Central Electronic Module (CEM)

No.	Fuse function	via	A
F68	3/254 Steering Wheel Module (SWM)	-	5
F69	3/112 Climate Control Module (CCM)	-	5
	3/286 BLIS switch	-	
	3/286 PAS switch	-	
	6/48 Damper Motor Module (DMM), recirculation	-	
	6/95 Damper Motor Module (DMM), temperature, left side	-	
	6/96 Damper Motor Module (DMM), temperature, right side	-	
	6/102 Damper Motor Module (DMM), defroster	-	
	6/103 Damper Motor Module (DMM), floor/ventilation	-	
	7/149 Rain Sensor Module (RSM)	-	
	7/159 Air Quality Sensor (AQS)	-	
F74	4/83 Fuel pump control module, Gasoline	2/23	15
	6/33 Fuel pump	2/23, 26/5	
	4/111 Additive Dosing Module (ADM)	2/23	
F86	3/26 Switch unit, power driver's seat	-	5
	3/27 Switch unit, power passenger seat	-	
	3/268 Load assistance switch	-	
	4/52 Power Seat Module (PSM)	-	
	4/54 Power Seat Module (PSM)	-	
	10/24 Cargo compartment lighting	-	
	10/25 Ceiling light, cargo compartment	-	
	10/26 Reading light, rear left	-	
	10/27 Reading light, rear right	-	
	10/114 Vanity mirror lighting, left, C70	-	
	26/5 DC/AC converter, fuel tank	2/23	

Fuses

Battery PF1-PF2

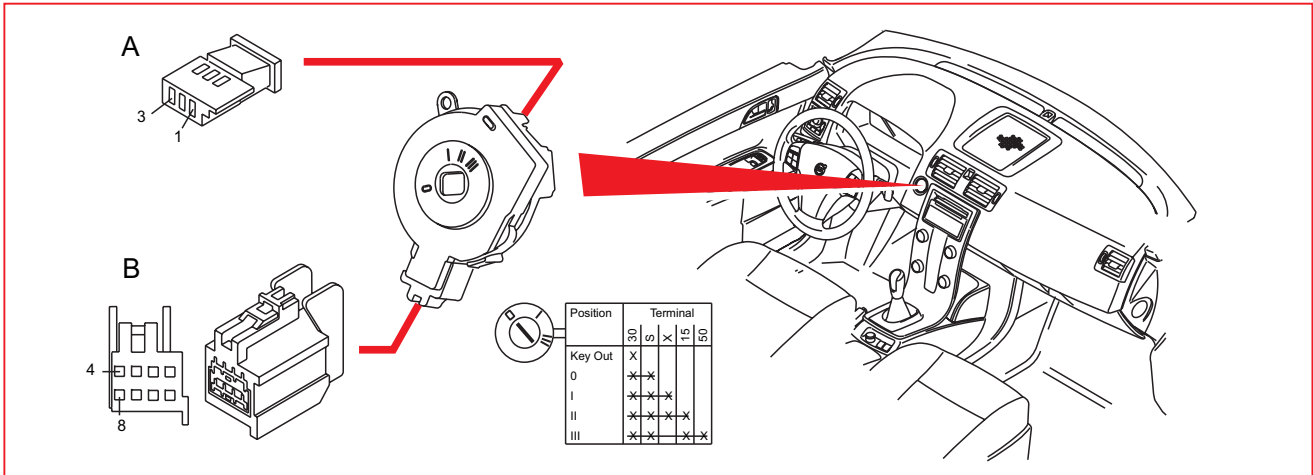


1/1 Battery

No.	Fuse function	via	A
PF1	6/25 Starter motor	-	150
	6/26 Alternator	-	
PF2	F1-F14 Fuses in the engine compartment distribution box	-	150
	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	-	

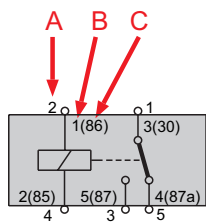
Relays

Ignition switch and relays



Relays, general

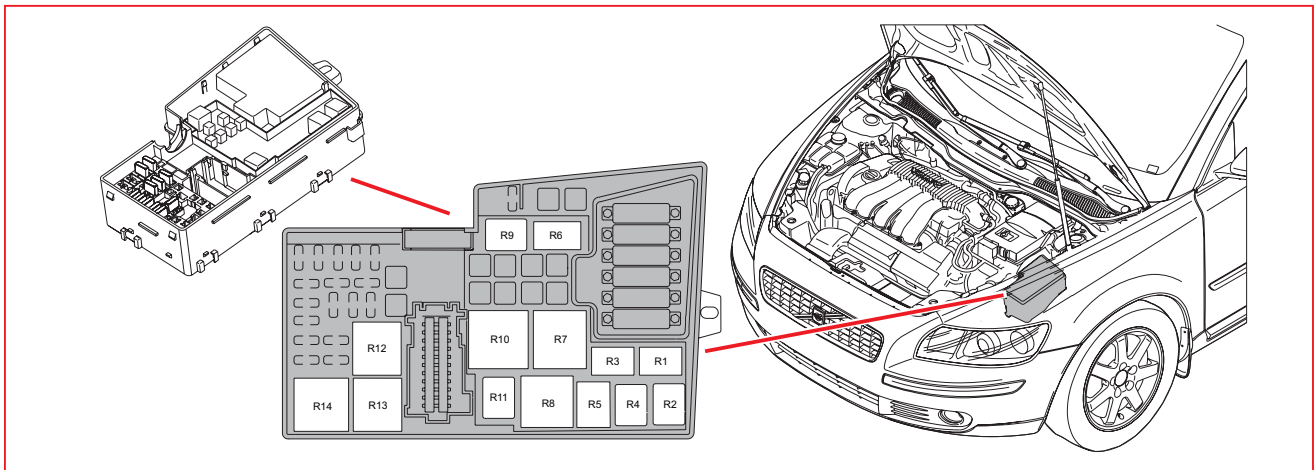
The diagram indicates two or three different designations for the relay's position. This is described below.



- 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

Engine compartment distribution box R2-R14

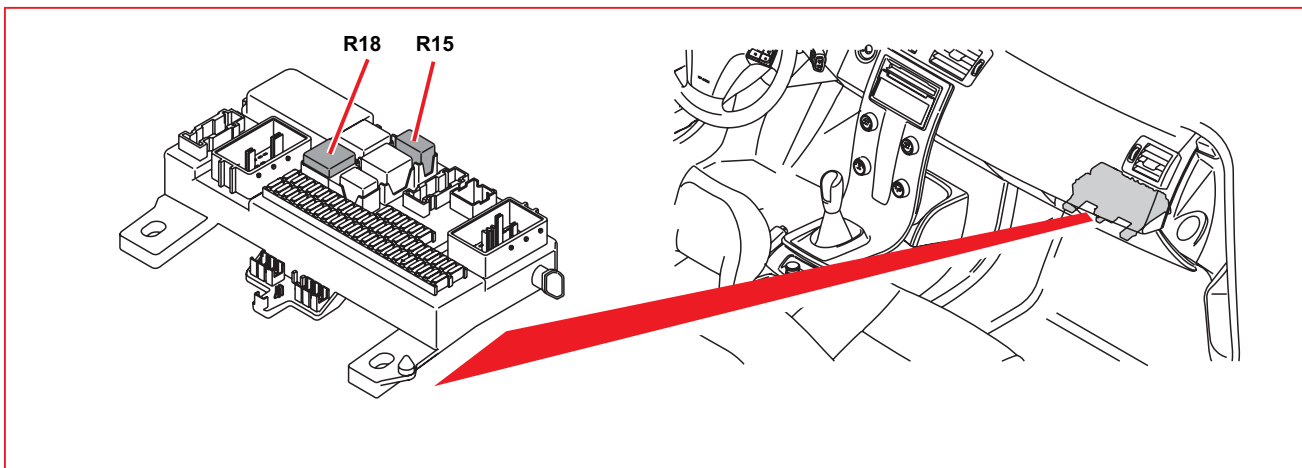


15/31 Engine compartment distribution box

Pos	Relay function
R2	2/17 Relay, horn
R4	2/34 Relay, front fog lights
R5	2/142 Fuel filter preheater relay
R9	2/182 Relay, headlight washer motor
R10	2/82 Relay, heated rear window
R11	2/22 Relay, climate control system
R12	2/14 Relay, glow plug system
R13	2/35 Relay, starter motor
R14	2/32 Main relay, engine management system

Relays

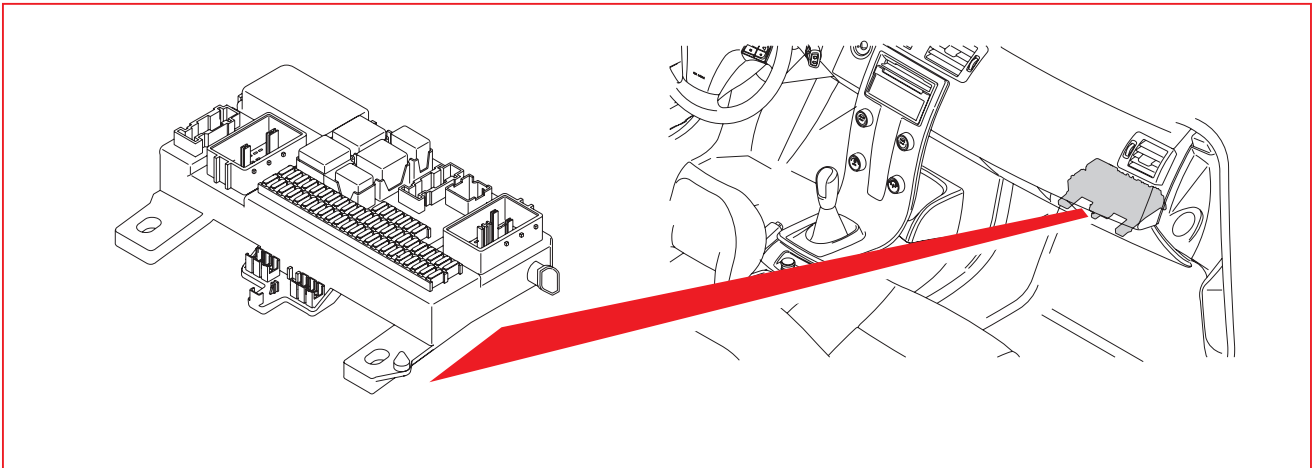
Central Electronic Module (CEM) R15-R18



4/56 Central Electronic Module (CEM)

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

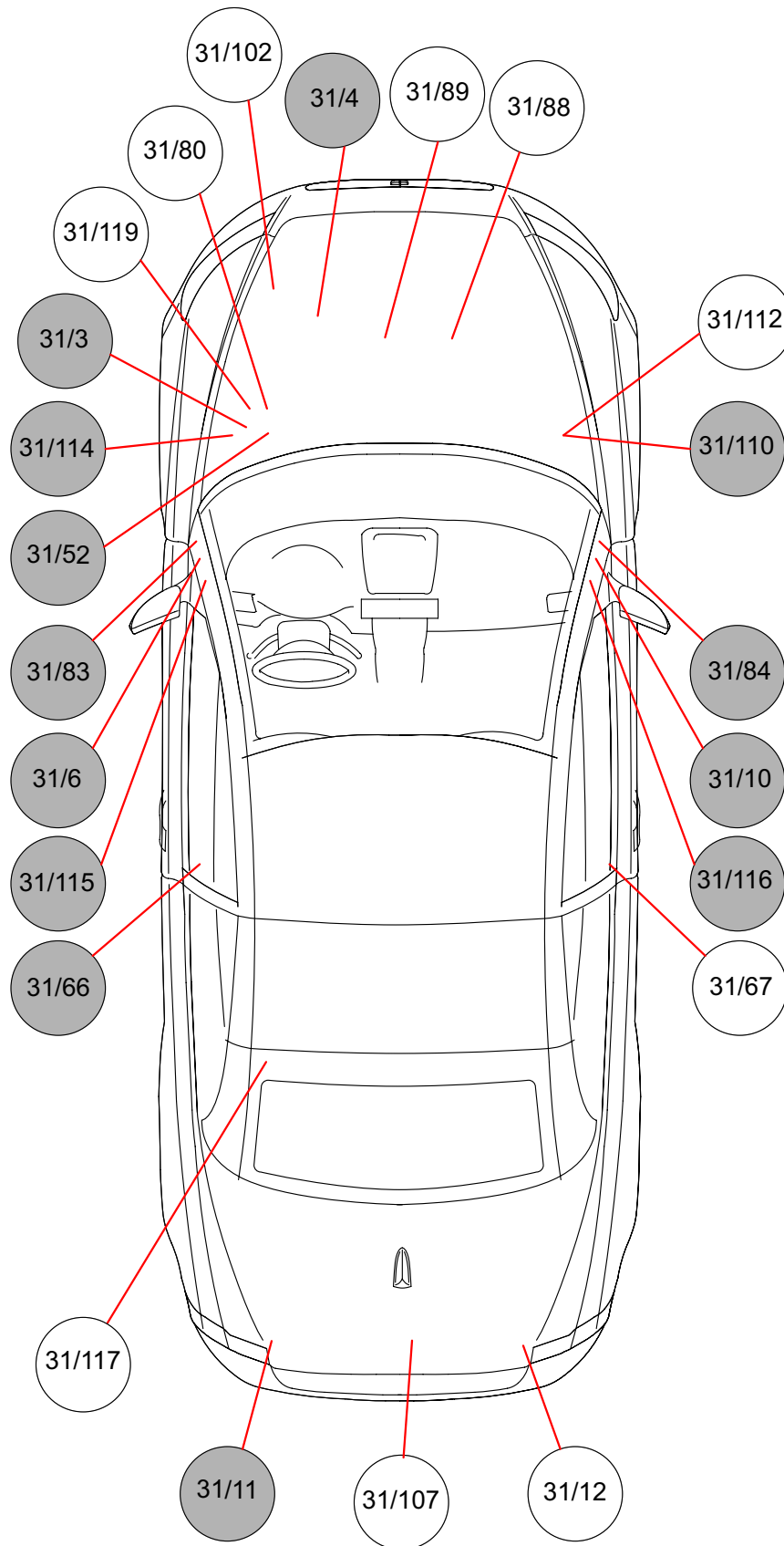
Relays - soldered
Central Electronic Module (CEM) R1 - R11B



4/56 Central Electronic Module (CEM)

Pos	Relay function	
R1	2/89	Relay, interior lighting
R2	2/80	Relay, reversing light
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

Ground connections Overview



Ground connections

31/3 - 31/10 cont.

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
4/93	Keyless Vehicle Module (KVM), RHD
4/102	Steering Column Lock Module (SCL)
10/1	Lamp housing, front left
10/2	Lamp housing, front right
17/13	Data link connector
	Alcolock

31/10	A-post, passenger side
2/16	Relay, rear window wiper
2/23	Relay, fuel pump
2/63	Relay, high beam
2/64	Relay, auxiliary lights (accessory)
2/89	Relay, interior lighting
2/92	Relay, windshield washer motor
2/93	Relay, rear window washer motor
2/159	Relay, infotainment
2/193	Relay, comfort functions
3/25	Switch, power roof/sunroof
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
3/286	BLIS or PAS switch
4/33	Sunroof control module
4/56	Central Electronic Module (CEM)
6/2	Washer pump
6/48	Damper Motor Module (DMM), recirculation
6/95	Damper Motor Module (DMM), temperature, left side
6/96	Damper Motor Module (DMM), temperature, right side
6/102	Damper Motor Module (DMM), defroster
6/103	Damper Motor Module (DMM), floor/ventilation
6/117	Interior temperature sensor
7/122	Mass Movement Sensor Module (MMS), front
7/149	Rain Sensor Module (RSM)
7/159	Air Quality Sensor (AQS)
8/48	Auto-dimming rearview mirror
8/134	Solenoid, reverse interlock, manual
	continues

Ground connections

31/10 - 31/52

31/10 A-post, passenger side	
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, S40/V50/C30
10/115	Vanity mirror lighting, right
10/150	Rear reading light
16/1	Integrated Audio Module (IAM)
16/45	Portable navigation system
16/93	Control module, cellular phone handsfree

31/11 Rear left side	
3/35	Switch, handle, trunk lid, C30
3/78	Lock unit, trunk lid/tailgate
4/78	Accessory Electronic Module (AEM), C70
4/86	Parking Assistance Module (PAM)
4/110	Trailer Module (TRM), C30
6/32	Rear window wiper motor, C30
7/101	Glass breakage sensor, C30
9/2	Heated rear window, C30
10/3	License plate lighting, C30
10/18	Lamp housing, rear left
16/79	Subwoofer Module (SUB)
16/105	Audio Module (AUD)
16/145	Remote Digital Audio Receiver (RDAR), S40/V50
17/19	12V outlet, cargo compartment, C70

31/52 Left MacPherson strut tower	
3/10	Reversing light contact
4/28	Transmission Control Module (TCM)
4/46	Engine Control Module (ECM)
7/24	Front knock sensor, Gasoline
7/192	Water detection sensor, Diesel
8/3	Electromagnetic clutch, climate control system
9/32	PTC resistor, crankcase ventilation
9/38	Heated fuel filter, Diesel
10/65	Auxiliary light, front right
10/69	Auxiliary light, front left

Ground connections

31/66 - 31/84

31/66 Left B-post	
3/26	Switch unit, power driver's seat, LHD
3/27	Switch unit, power passenger seat, RHD
3/35	Switch, handle, trunk lid/tailgate
3/76	Lock unit, rear left door
3/78	Lock unit, trunk lid/tailgate
3/85	Power window switch, rear left door
3/128	Rear left Door Module (LDM)
3/275	Lock contact, left rear door
3/287	Rear seat entry switch, left
4/52	Power Seat Module (PSM), LHD
4/54	Power Seat Module (PSM)
4/93	Keyless Vehicle Module (KVM), RHD
6/32	Rear window wiper motor, V50/C30
6/35	Fuel pump, auxiliary heater
8/51	Igniter, side airbag, driver's side, LHD
8/52	Igniter, side airbag, passenger side, RHD
8/92	Lap belt tensioner, driver, LHD
9/2	Heated rear window, C70
9/12	Seat Heating Module (SHM), driver's side, LHD
9/13	Seat Heating Module (SHM), passenger side, RHD
10/3	License plate lighting, S40/V50/C70
10/19	Auxiliary brake light, V50/C70
10/26	Reading light, rear left
10/114	Vanity mirror lighting, left, C70, LHD

31/83 A-post, driver's side	
3/1	Ignition switch
3/6	Switch, hazard warning flashers
3/254	Steering Wheel Module (SWM)
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	Integrated Audio Module (IAM)
16/1.2	Infotainment Control Module (ICM)
16/46	RTI Display
16/60	Phone Module (PHM)
16/108	Multimedia Module (MMM)

Ground connections

31/110 - 31/115

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)
6/28	Motor, passenger compartment fan
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

31/114 Left MacPherson strut tower	
3/62	Hood alarm contact
4/71	Cooling fan control module
4/112	Gas Discharge Lamp Module (GDL), master
4/114	Headlamp Control Module (HCM)
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)

31/115 Left A-post	
3/126	Driver Door Module (DDM), LHD
3/127	Passenger Door Module (PDM), RHD
4/83	Fuel pump control module, RHD
4/111	Additive Dosing Module (ADM), RHD
6/33	Fuel pump, RHD

Ground connections

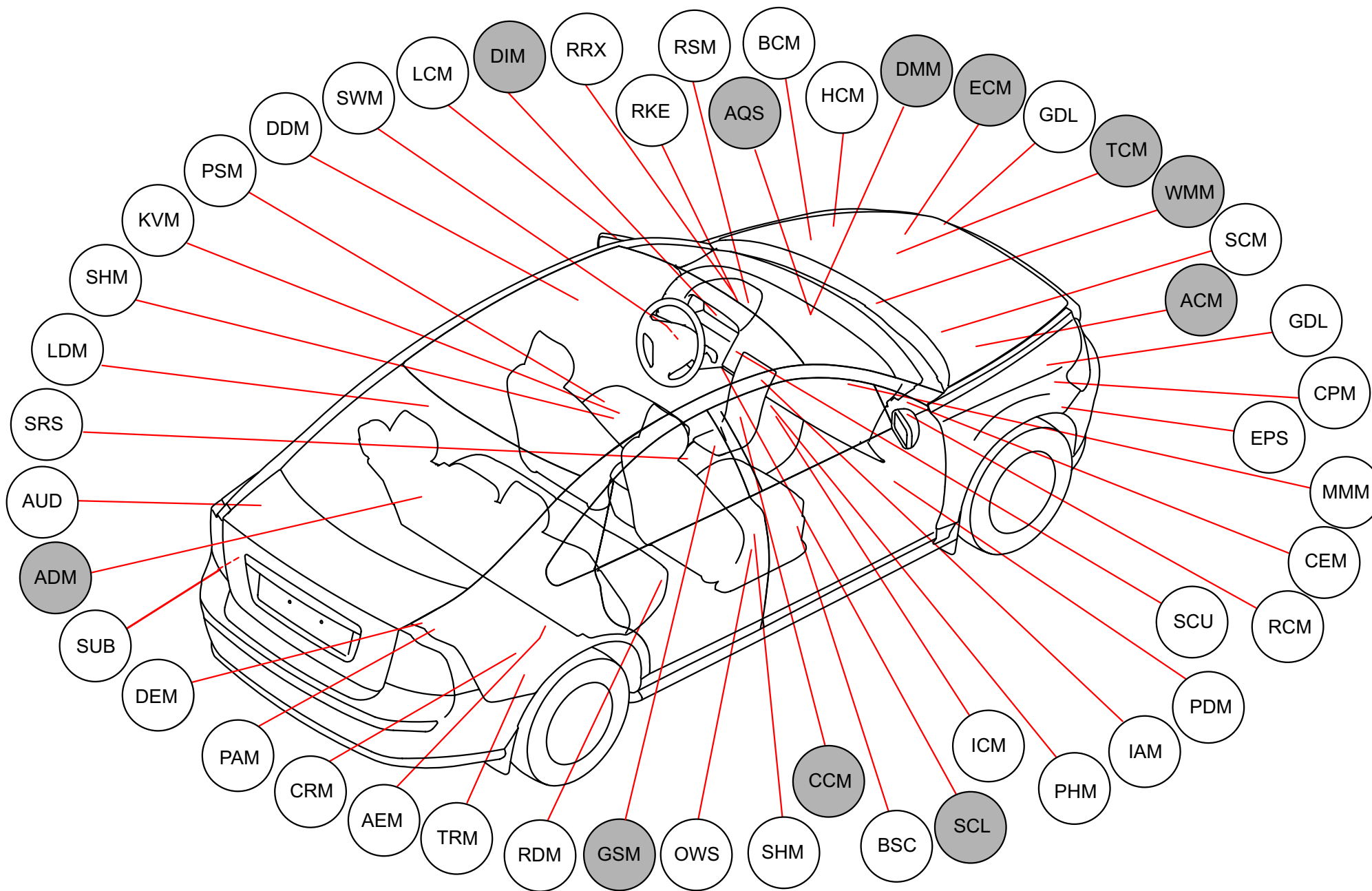
31/116 - Ground connections in chassis

31/116 Right A-post	
3/126	Driver Door Module (DDM), RHD
3/127	Passenger Door Module (PDM), LHD
4/83	Fuel pump control module, LHD, Gasoline
4/111	Additive Dosing Module (ADM), LHD
6/33	Fuel pump

Grounded directly to chassis	
3/4	Switch unit, cruise control (SWS)
3/37	Contact horn
3/47	Parking brake contact
4/9	Supplemental Restraint System Module (SRS)
4/56	Central Electronic Module (CEM)
6/25	Starter motor
6/26	Alternator
7/6	Oil pressure monitor
8/3	Electromagnetic clutch, climate control system
8/33	Igniter, belt tensioner, driver's side
8/34	Igniter, belt tensioner, passenger side
8/55	Igniter, rear left belt tensioner
8/56	Igniter, rear right 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
16/16	Window antenna amplifier
16/67	Antenna amplifier, bumper, C70
16/141	Interference filter, rear window, left
16/142	Interference filter, rear window, right
16/150	AM/FM antenna and amplifier, right rear fender, C70
16/150	Window antenna amplifier, left, C30
18/4	Contact reel
20/22-25	Glow plug

Control modules

Overview of locations



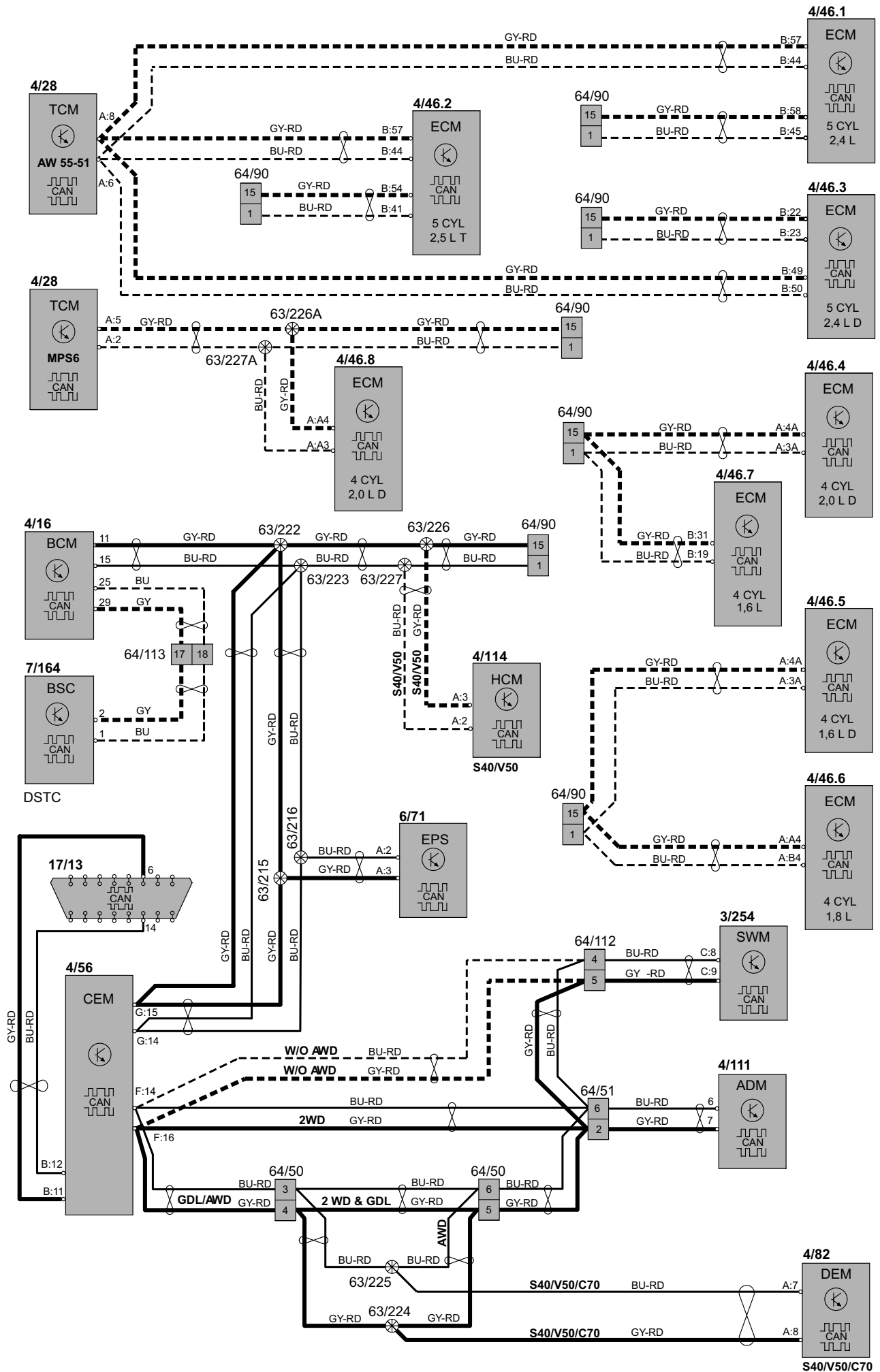
Control modules

Overview of designations

Unit	Designation
ACM	6/26 Alternator Control Module (ACM)
ADM	4/111 Additive Dosing Module (ADM)
AEM	4/78 Accessory Electronic Module (AEM)
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 Stability Sensor (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 Door Module (DDM)
DEM	4/82 Differential Electronic Module (DEM)
DIM	5/1 Driver Information Module (DIM)
DMM	6/48 Damper Motor Module (DMM), recirculation 6/95 Damper Motor Module (DMM), temperature, left side 6/96 Damper Motor Module (DMM), temperature, right 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	4/112 Gas Discharge Lamp Module (GDL), master, left 4/113 Gas Discharge Lamp Module (GDL), slave, right
GSM	3/156 Gear Selector Module (GSM)
HCM	4/114 Headlamp Control Module (HCM)
IAM	16/1 Integrated Audio Module (IAM)
ICM	16/1.2 Infotainment Control Module (ICM)
KVM	4/93 Keyless Vehicle Module (KVM)
LCM	4/126 Left Camera Module (LCM)
LDM	3/128 Rear left Door Module (LDM)
MMM	16/108 Multimedia Module (MMM)
OWS	7/93 Occupant Weight Sensor (OWS)
PAM	4/86 Parking Assistance Module (PAM)
PDM	3/127 Passenger Door Module (PDM)
PHM	16/60 Phone Module (PHM)
PSM	4/52 Power Seat Module (PSM) 4/54 Power Seat Module (PSM)
RCM	4/127 Right Camera Module (RCM)
RDM	3/129 Rear Right Door Module (RDM)
RKE	4/119 Signal receiver, keyless vehicle (RKE)
RRX	4/119 Remote Receiver Module (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	9/12 Seat Heating Module (SHM), driver's side 9/13 Seat Heating 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)
TRM	4/110 Trailer Module (TRM)
WMM	6/1 Wiper Motor Module (WMM)

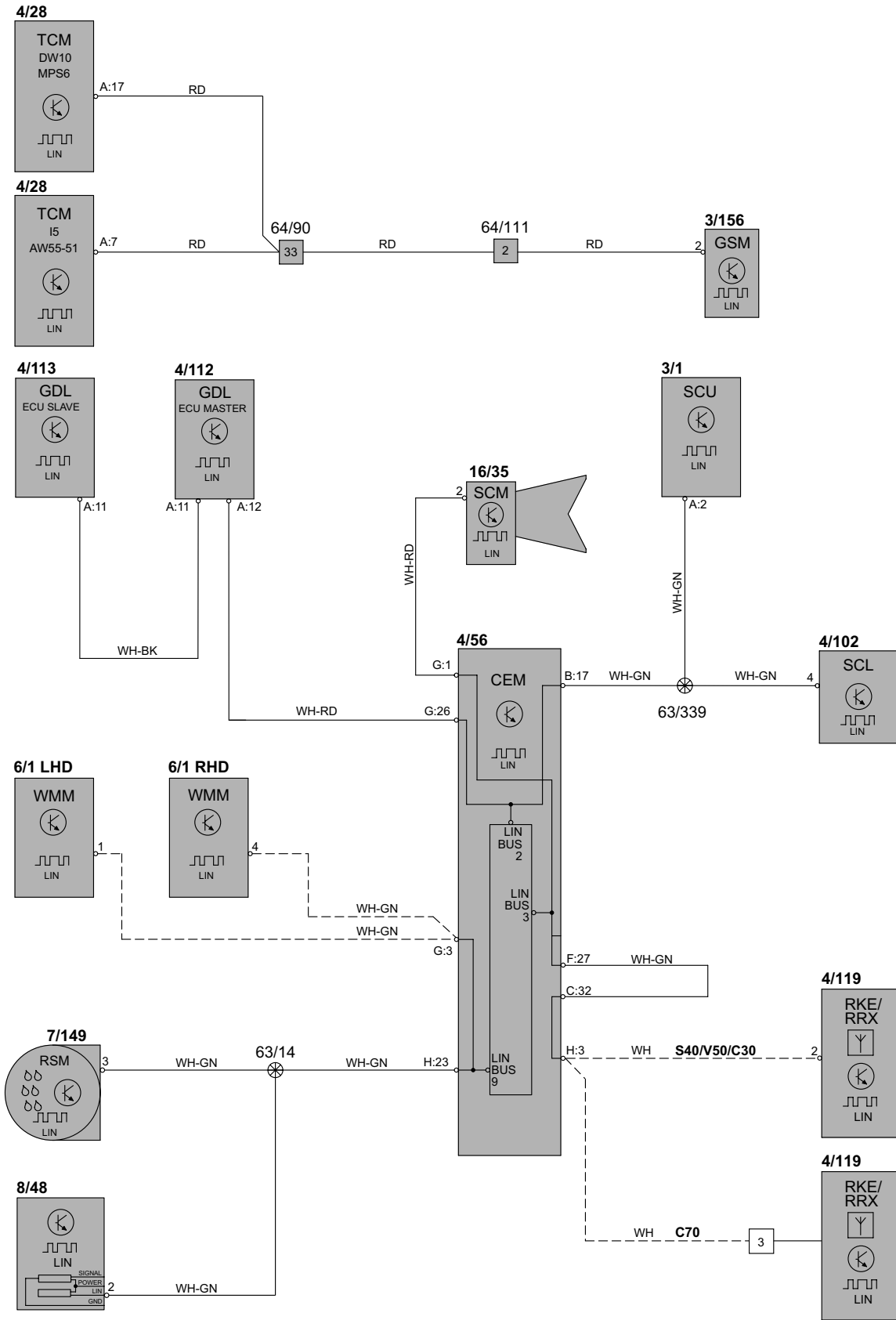
Control modules

Data communication, High speed CAN



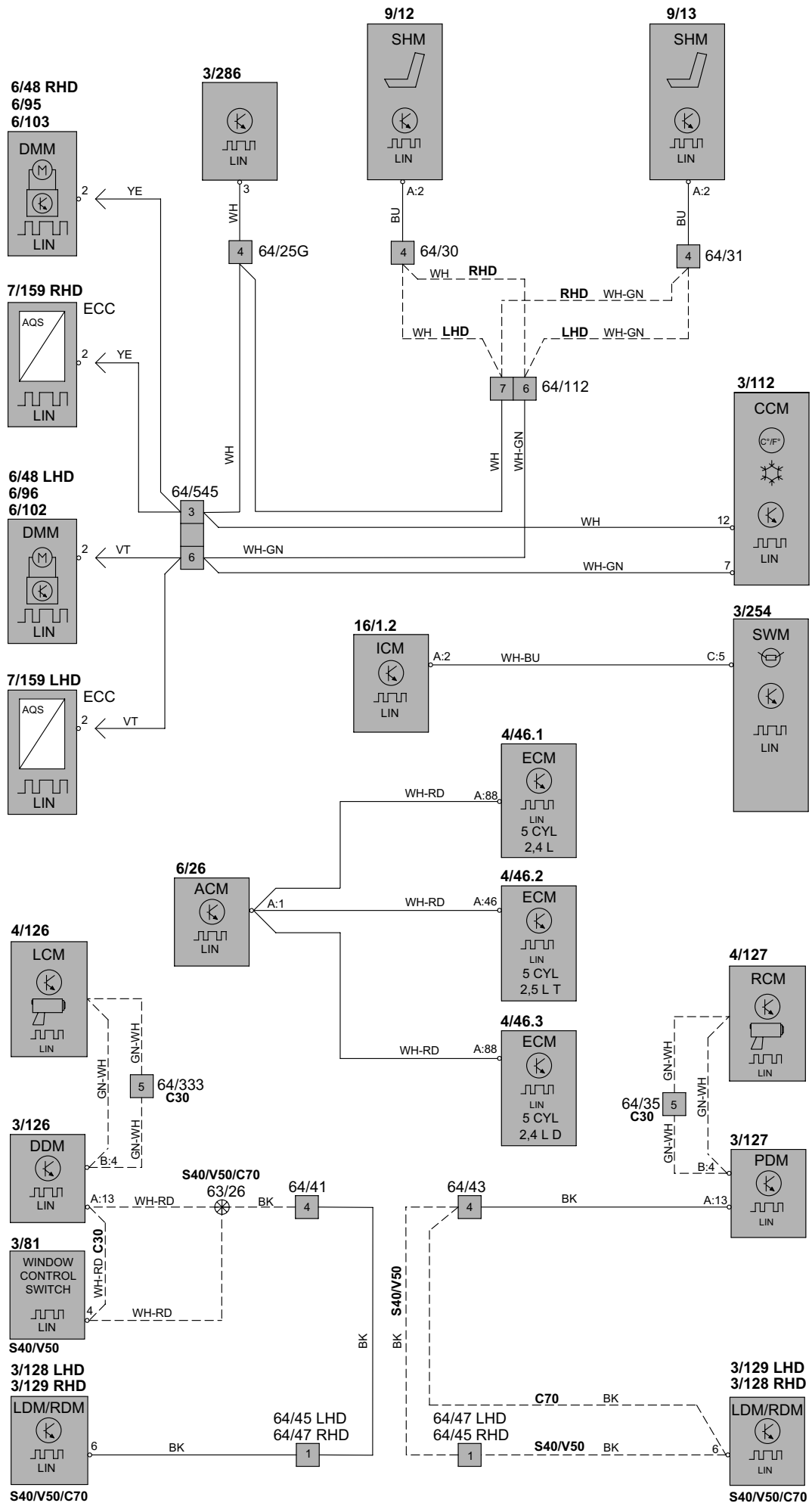
Control modules

Data communication, LIN 1:2



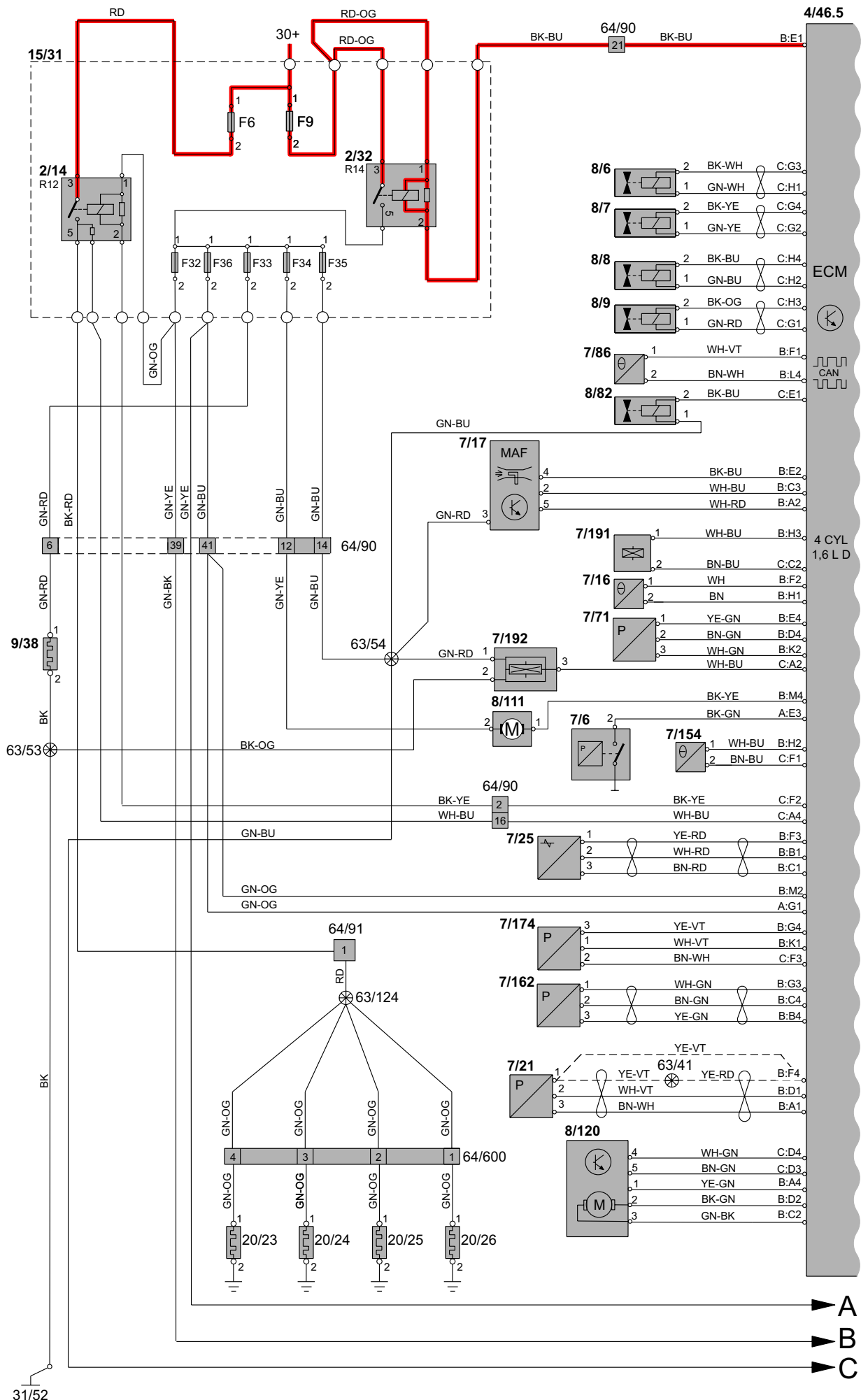
Control modules

Data communication, LIN 2:2



Group 23 Fuel system

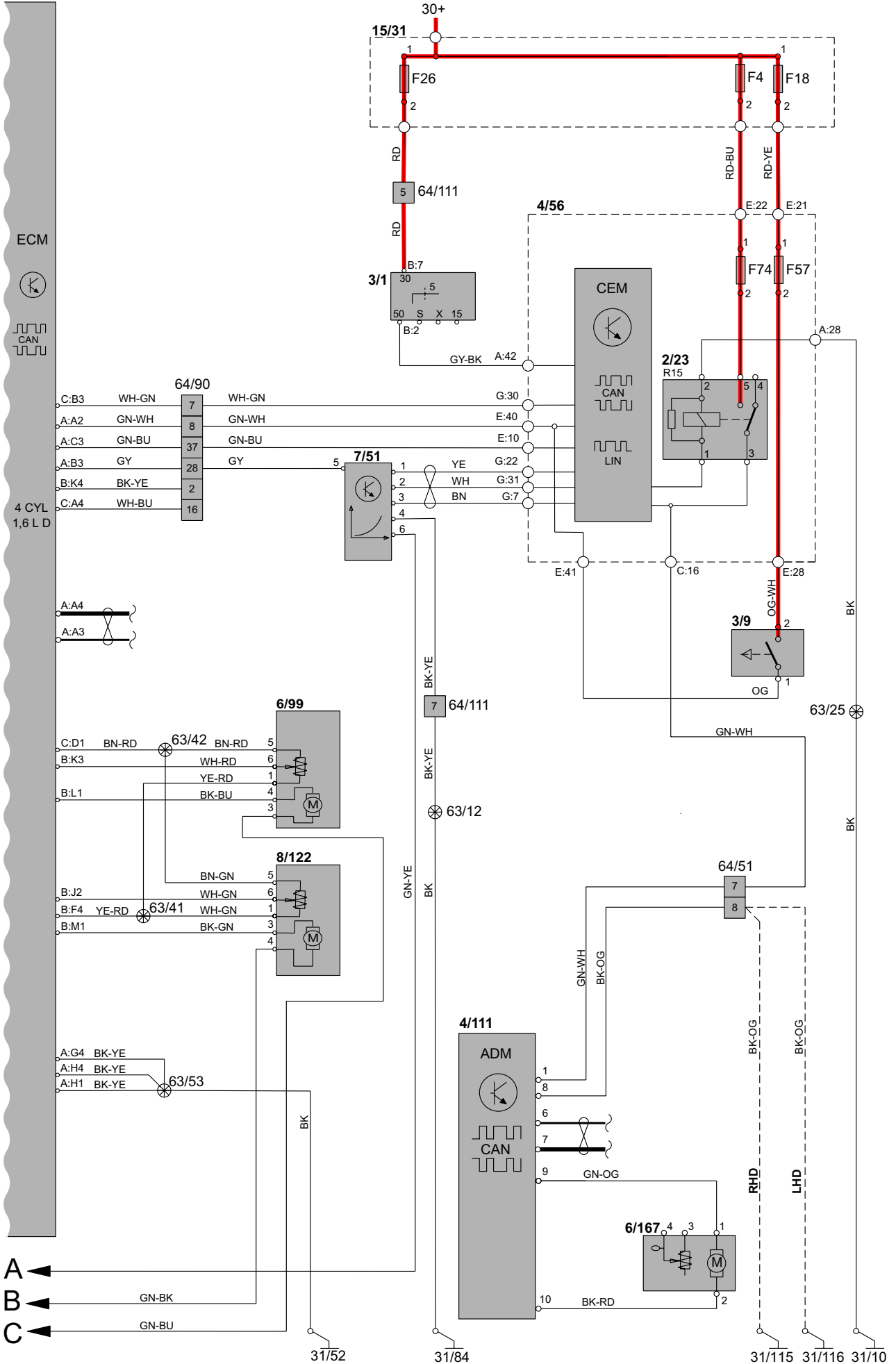
Engine management system Diesel, 4-cyl. 1.6l 1:2



Group 23 Fuel system

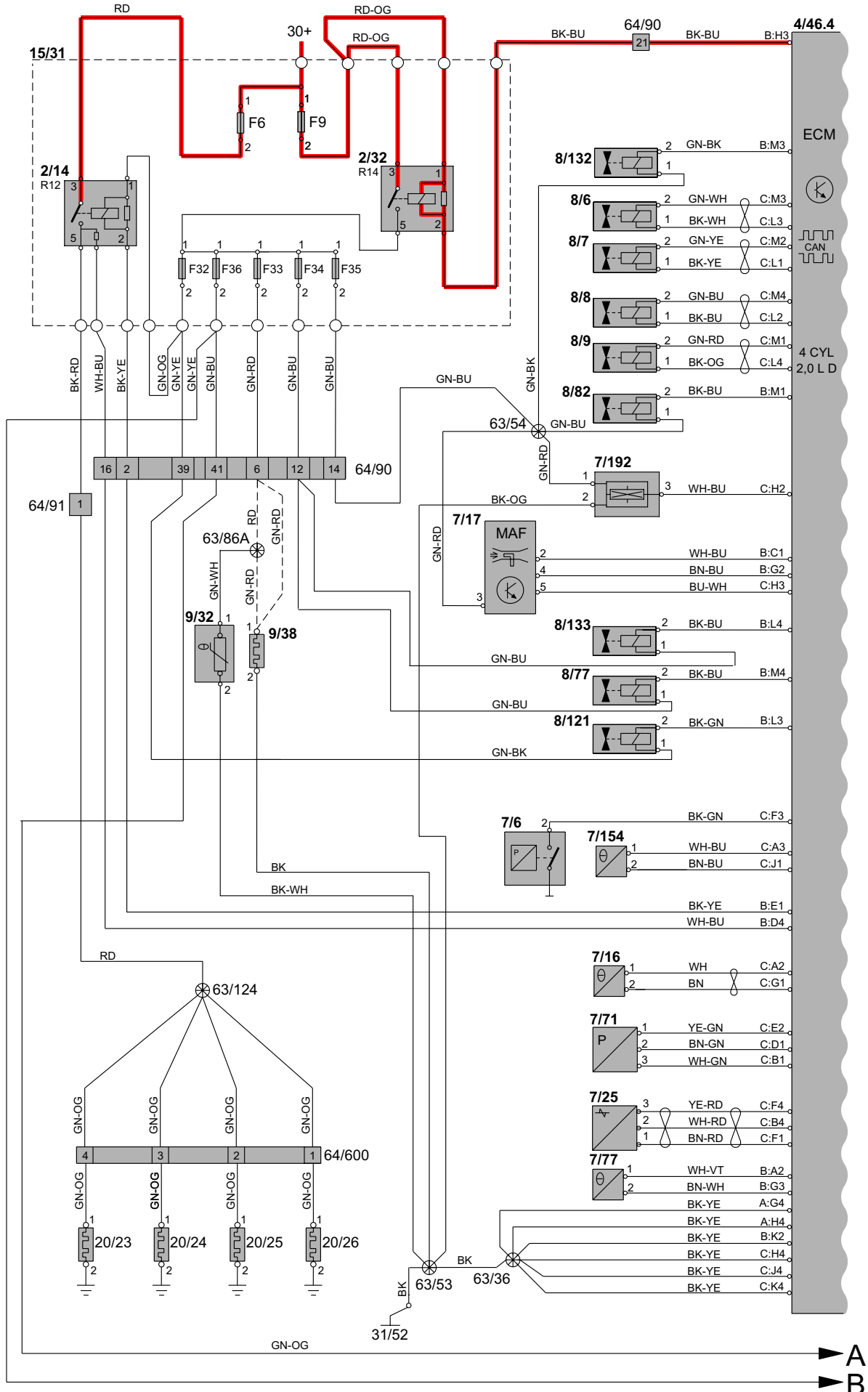
Engine management system Diesel, 4-cyl. 1.6l 2:2

4/46.5



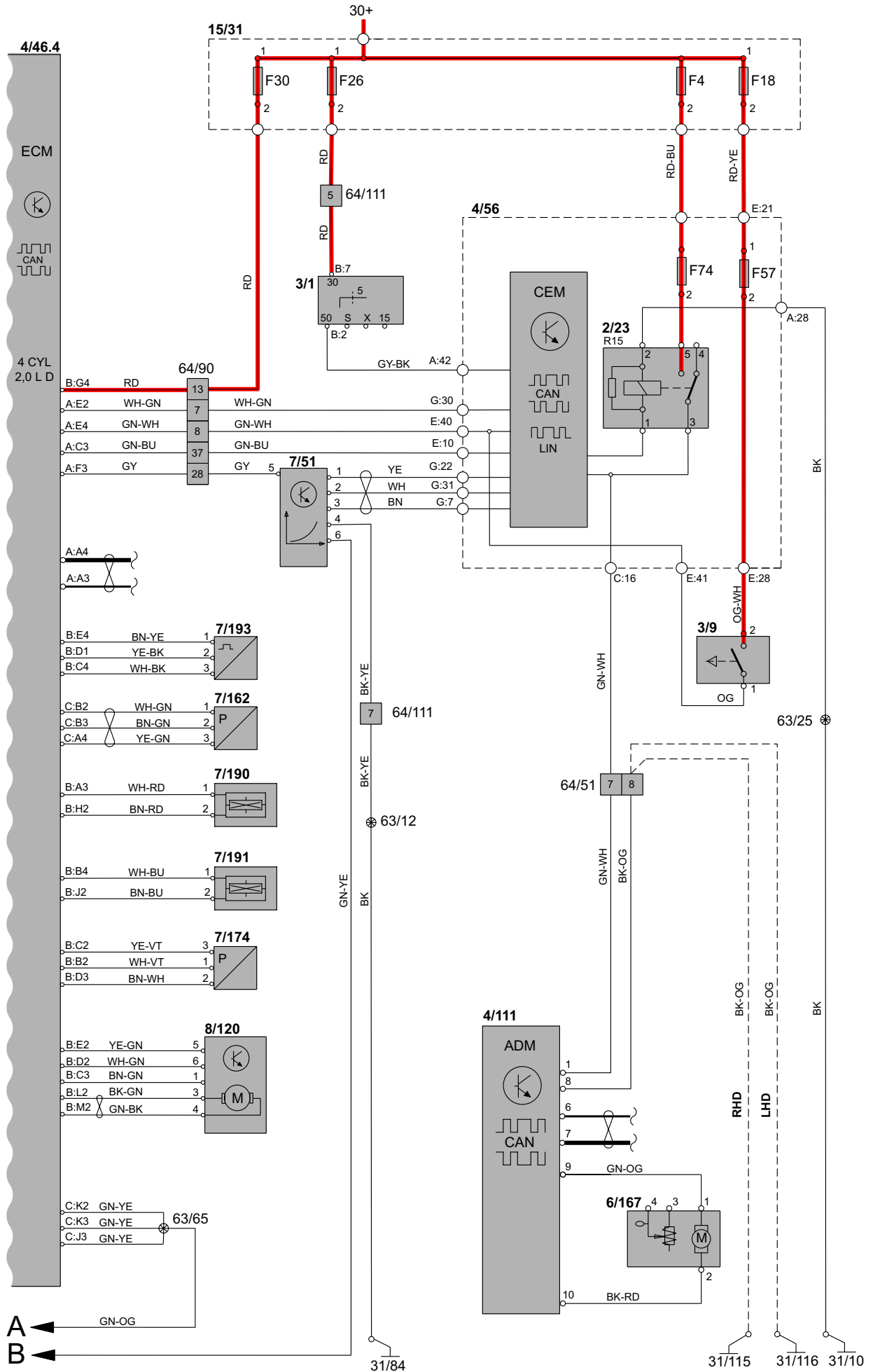
Group 23 Fuel system

Engine management system Diesel, 4-cyl. 2.0l 1:2



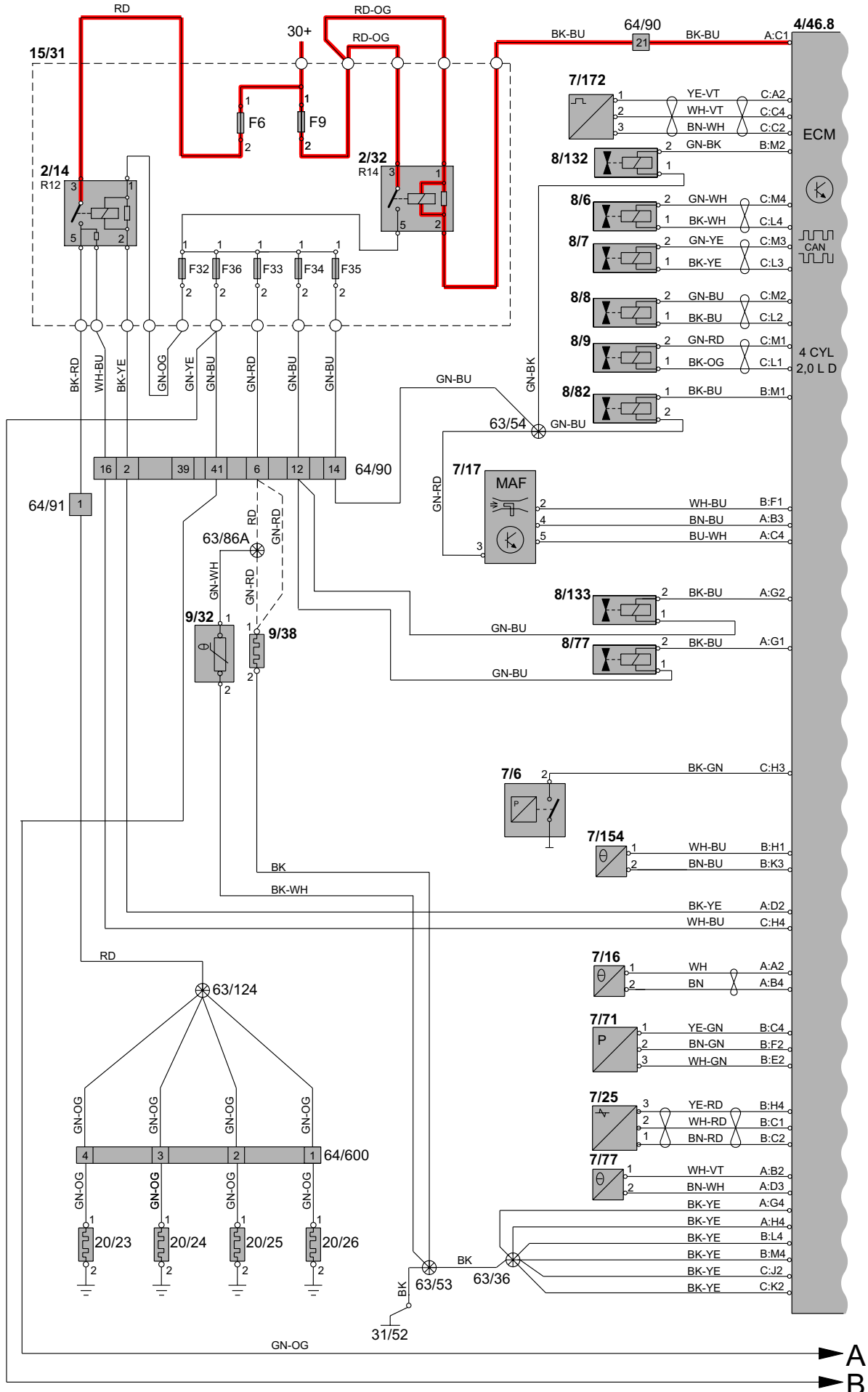
Group 23 Fuel system

Engine management system Diesel, 4-cyl. 2.0l 2:2



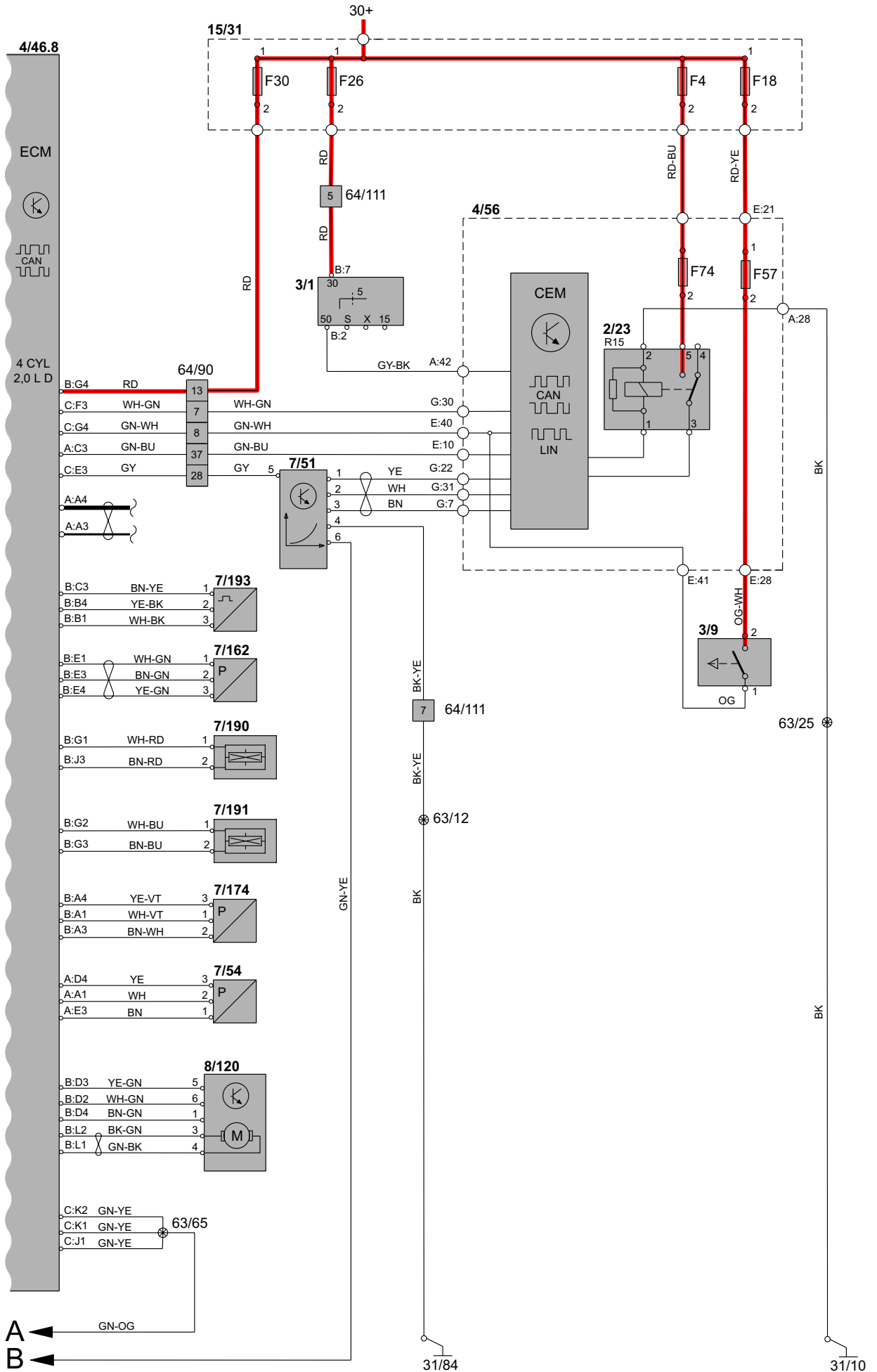
Group 23 Fuel system

Engine management system Diesel, 4-cyl. 2.0l MPS6 1:2



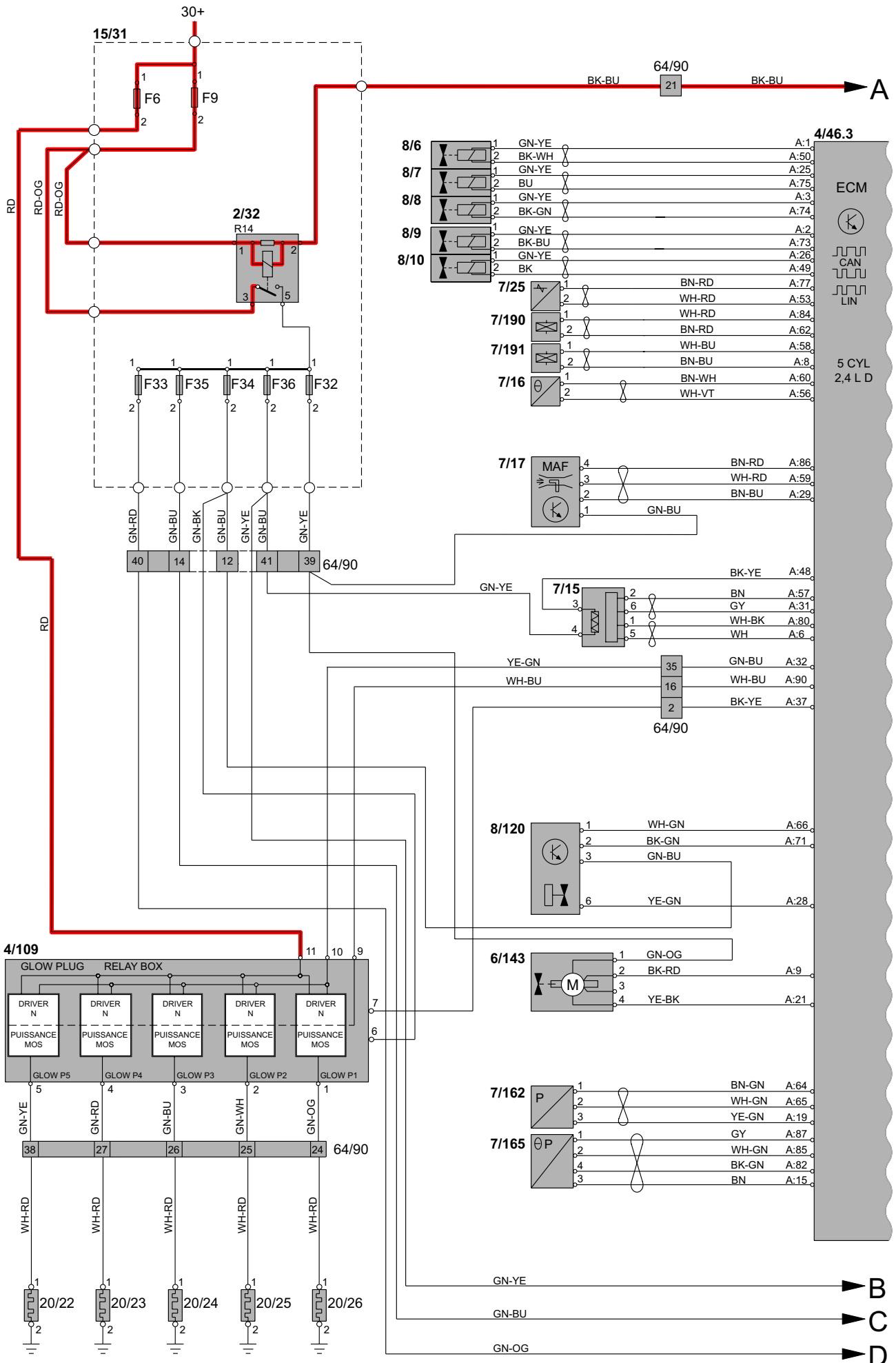
Group 23 Fuel system

Engine management system Diesel, 4-cyl. 2.0l MPS6 2:2



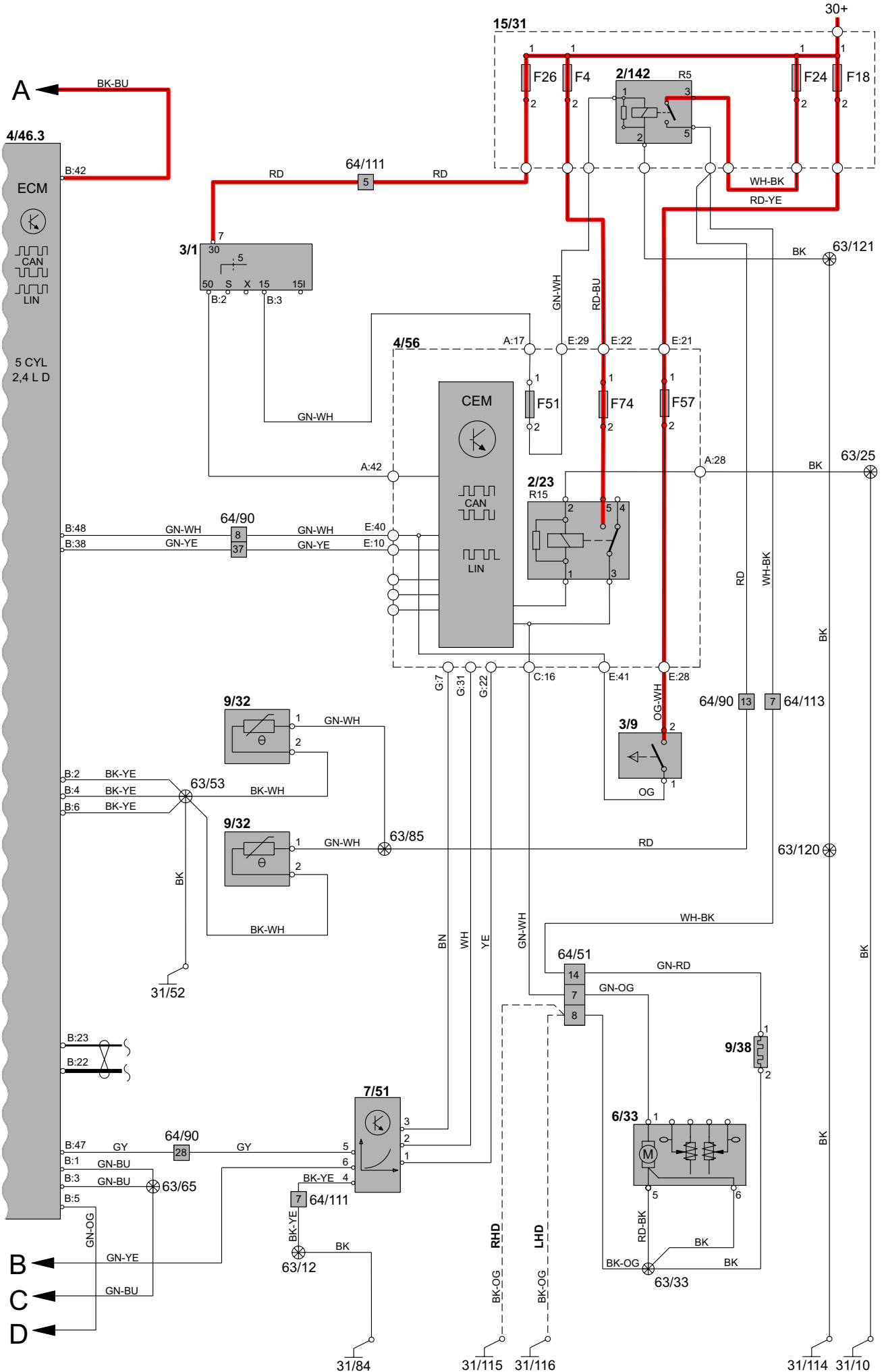
Group 23 Fuel system

Engine management system Diesel, 5-cyl. 2.4l 1:3



Group 23 Fuel system

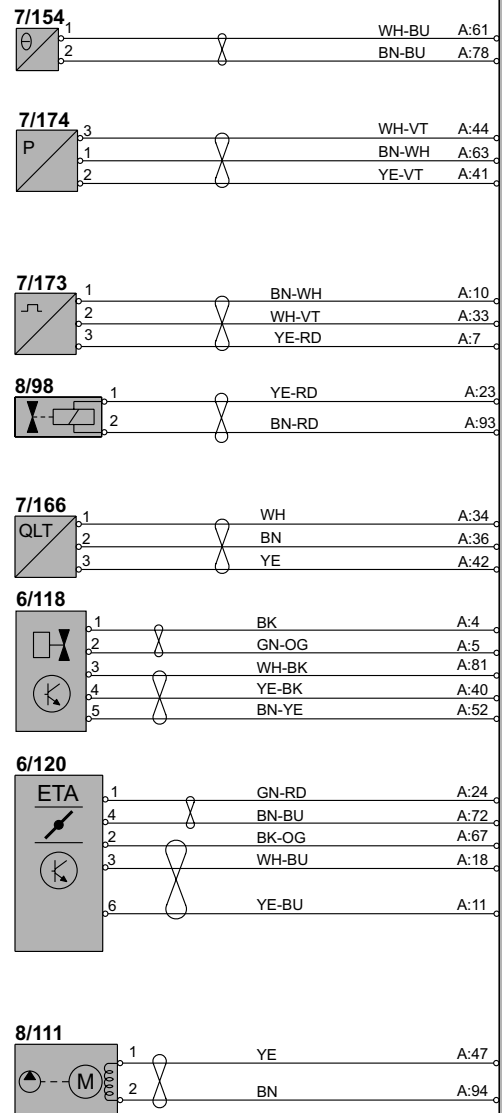
Engine management system Diesel, 5-cyl. 2.4l 2:3



Group 23 Fuel system

Engine management system Diesel, 5-cyl. 2.4l 3:3

4/46.3



ECM

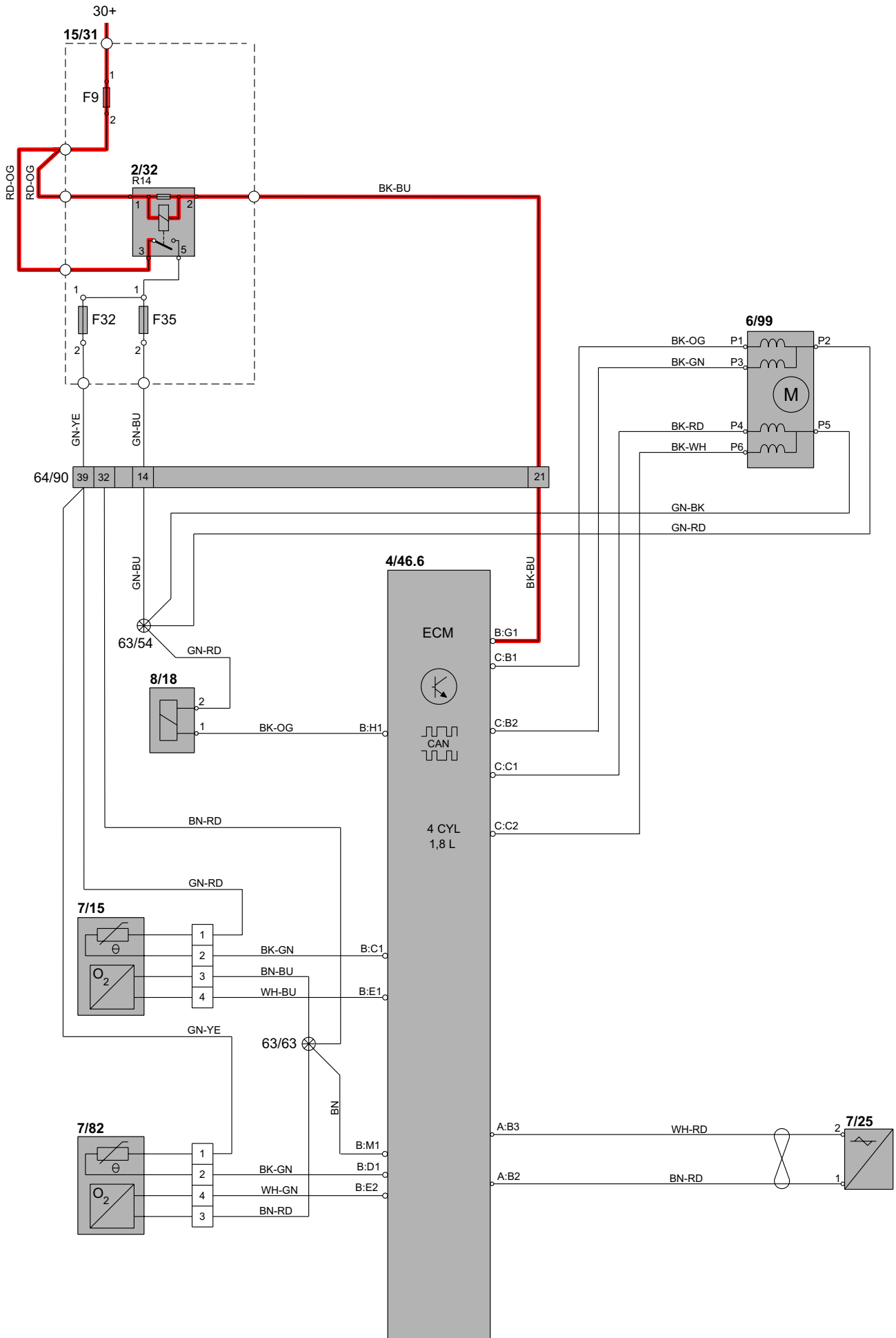


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5 CYL
2,4 L D

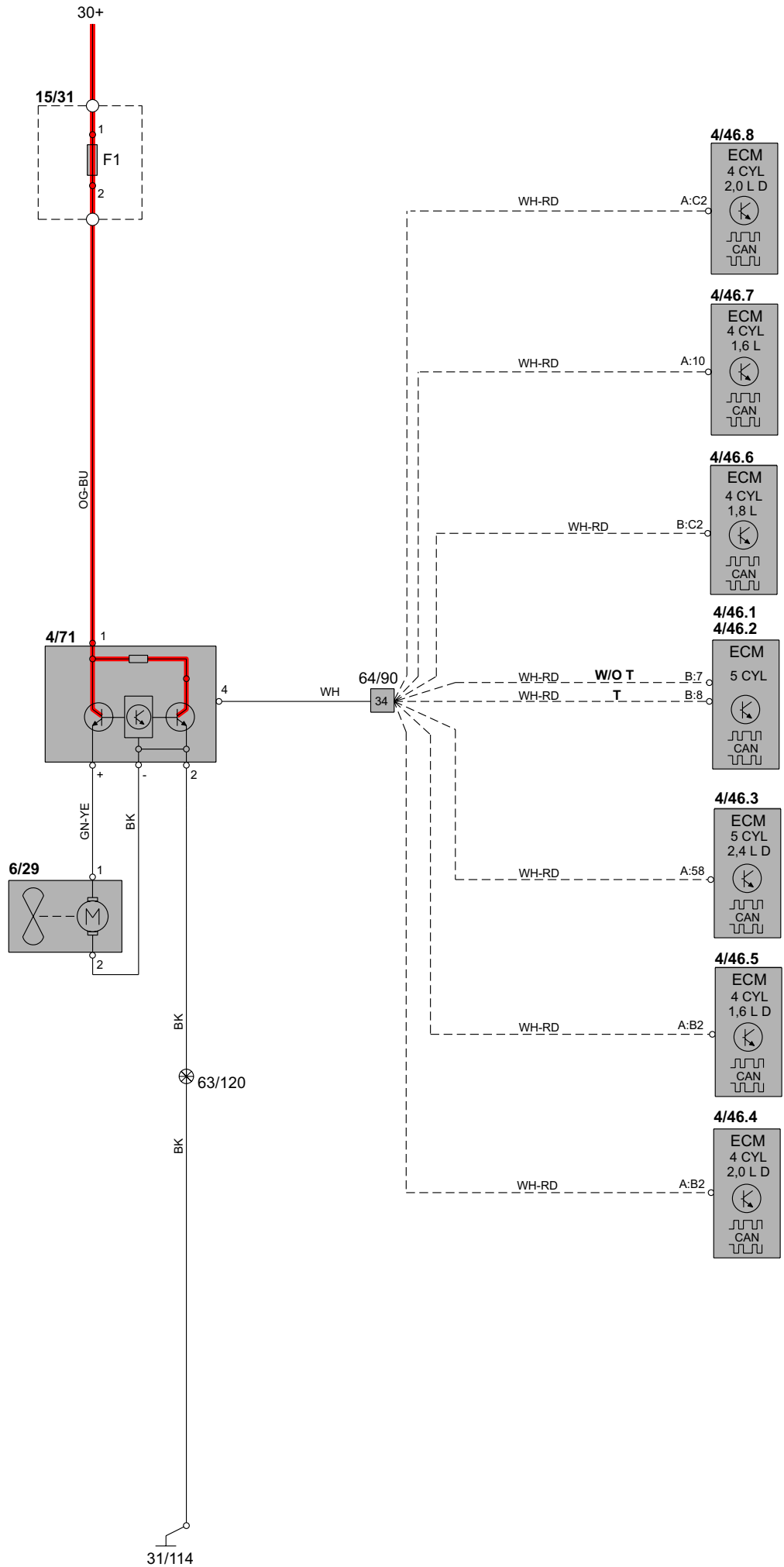
Group 23 Fuel system

Emission control 4-cyl 1.8l & 2.0l



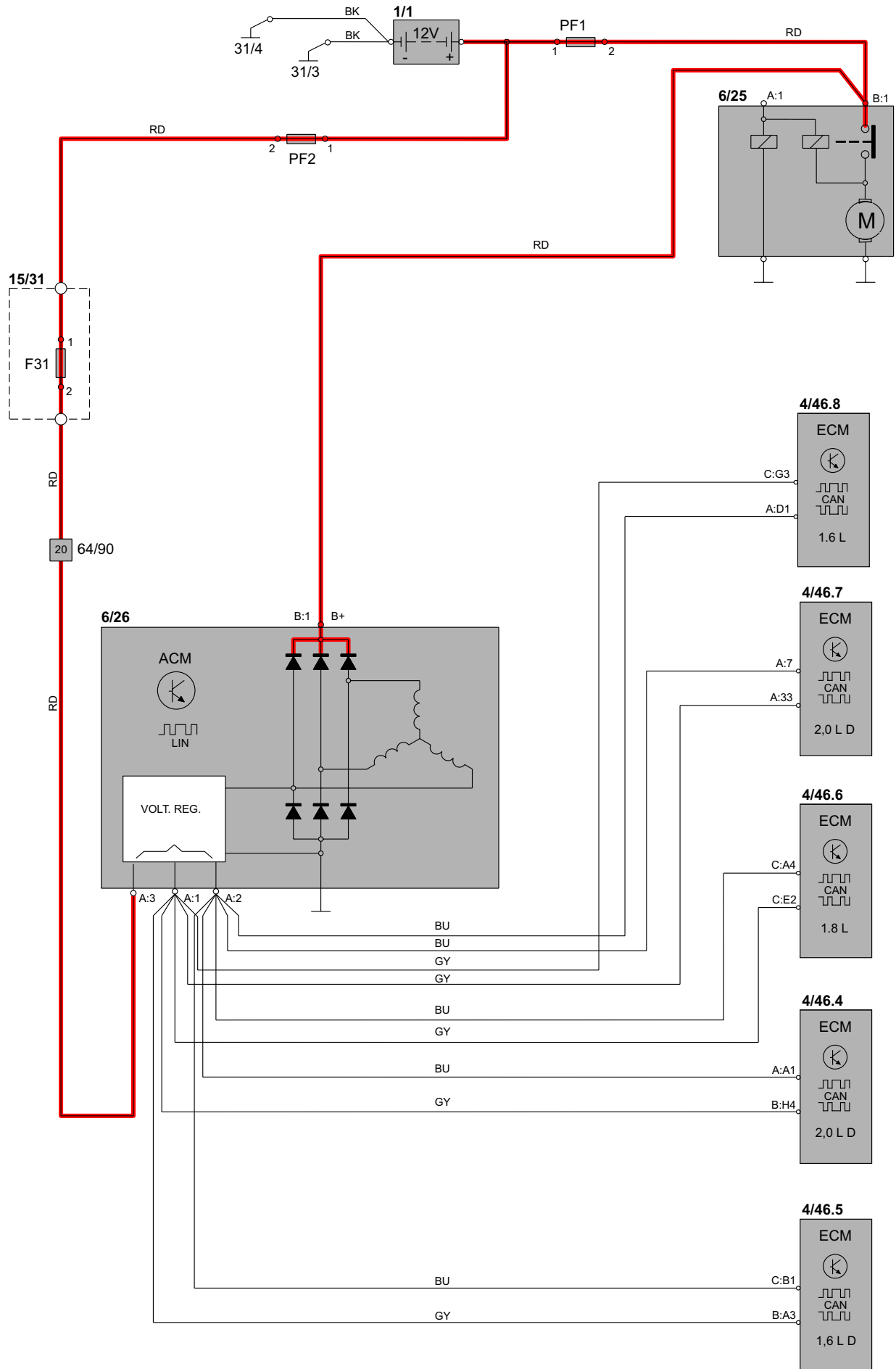
Group 26 Cooling system

Cooling fan



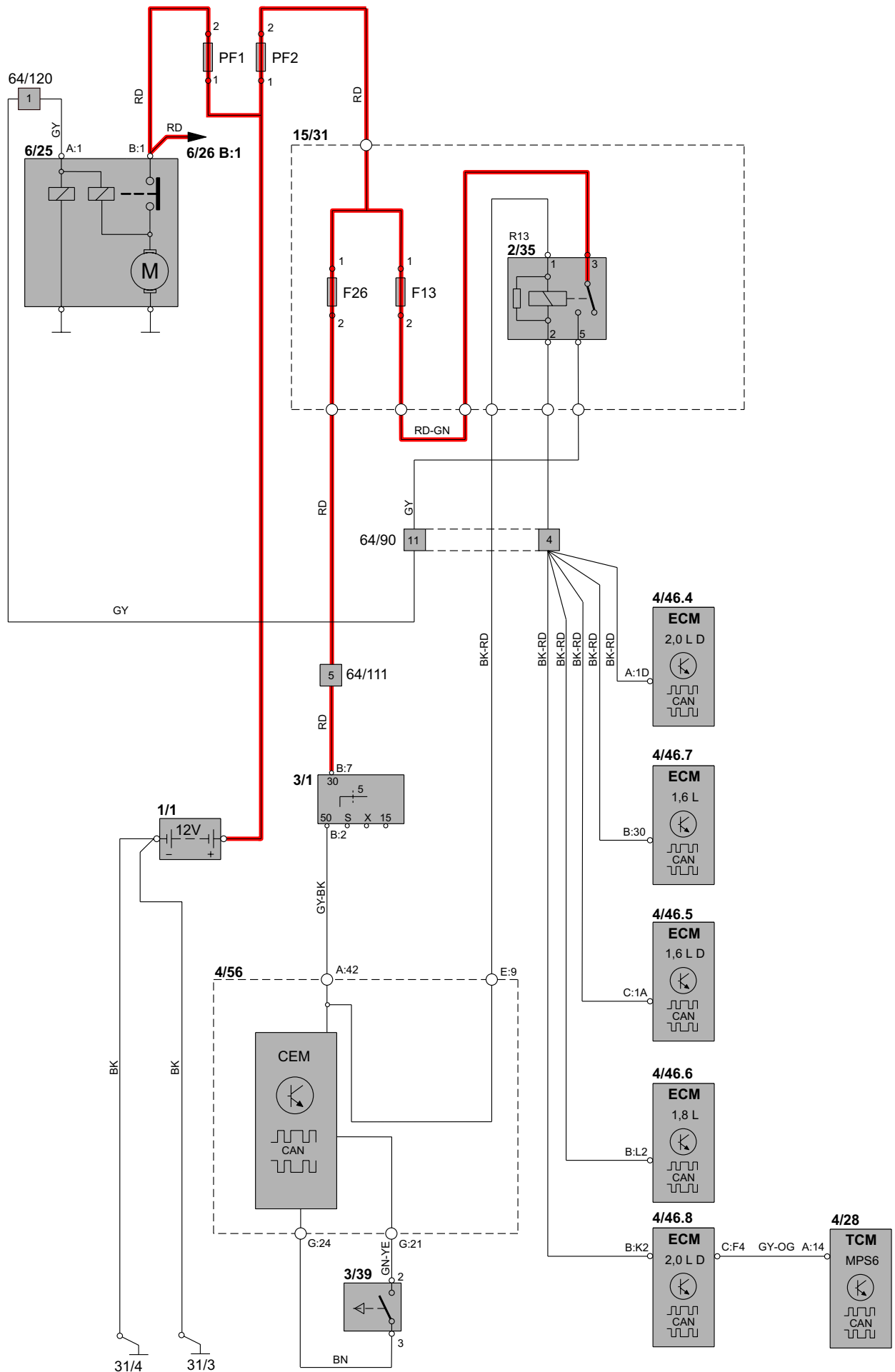
Group 32 Alternator and voltage regulator

Power supply, 4-cyl



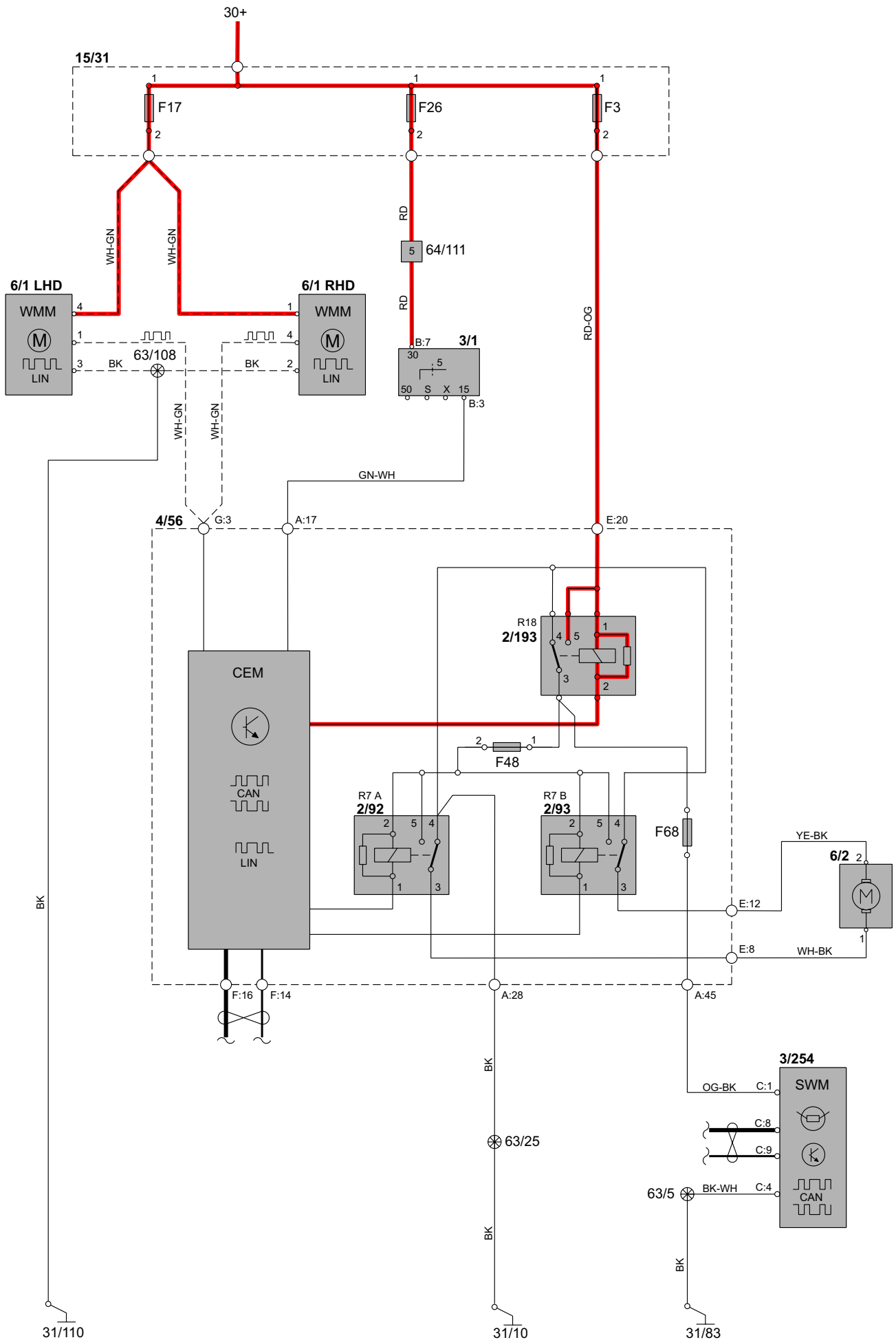
Group 33 Starting system

Starting system 4-cyl



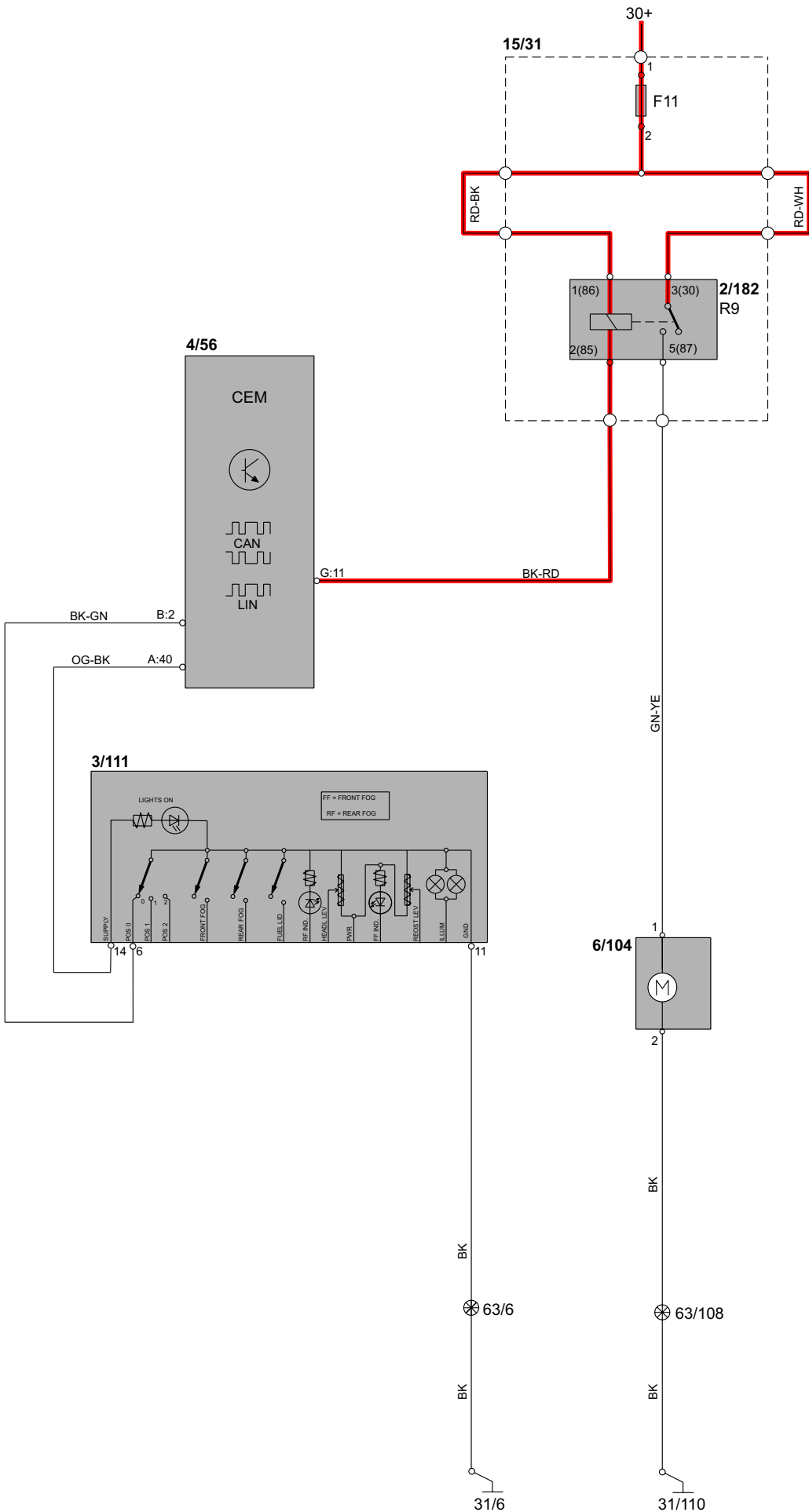
Group 36 Additional electrical equipment

Windshield wiper/washer



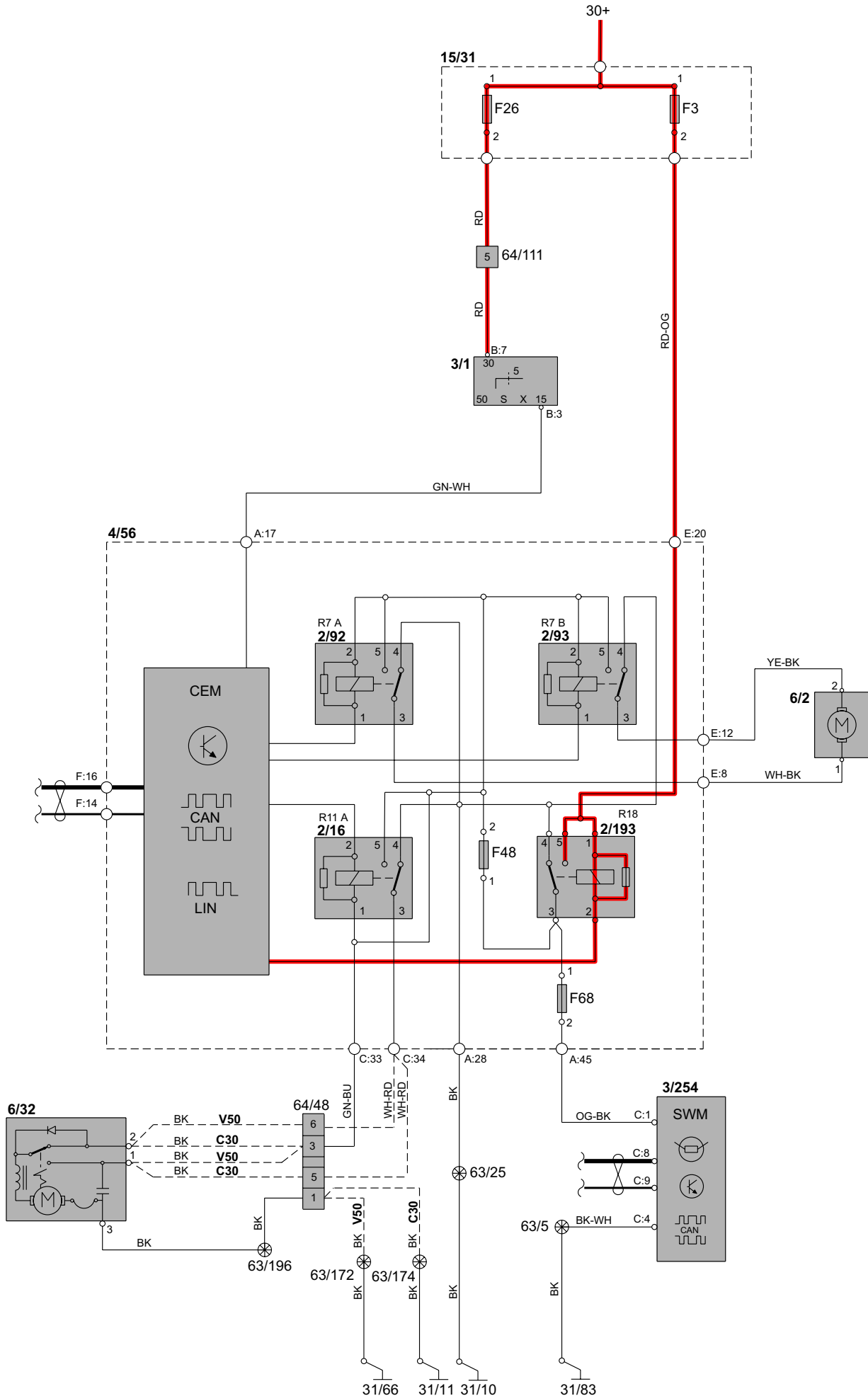
Group 36 Additional electrical equipment

Headlight washer



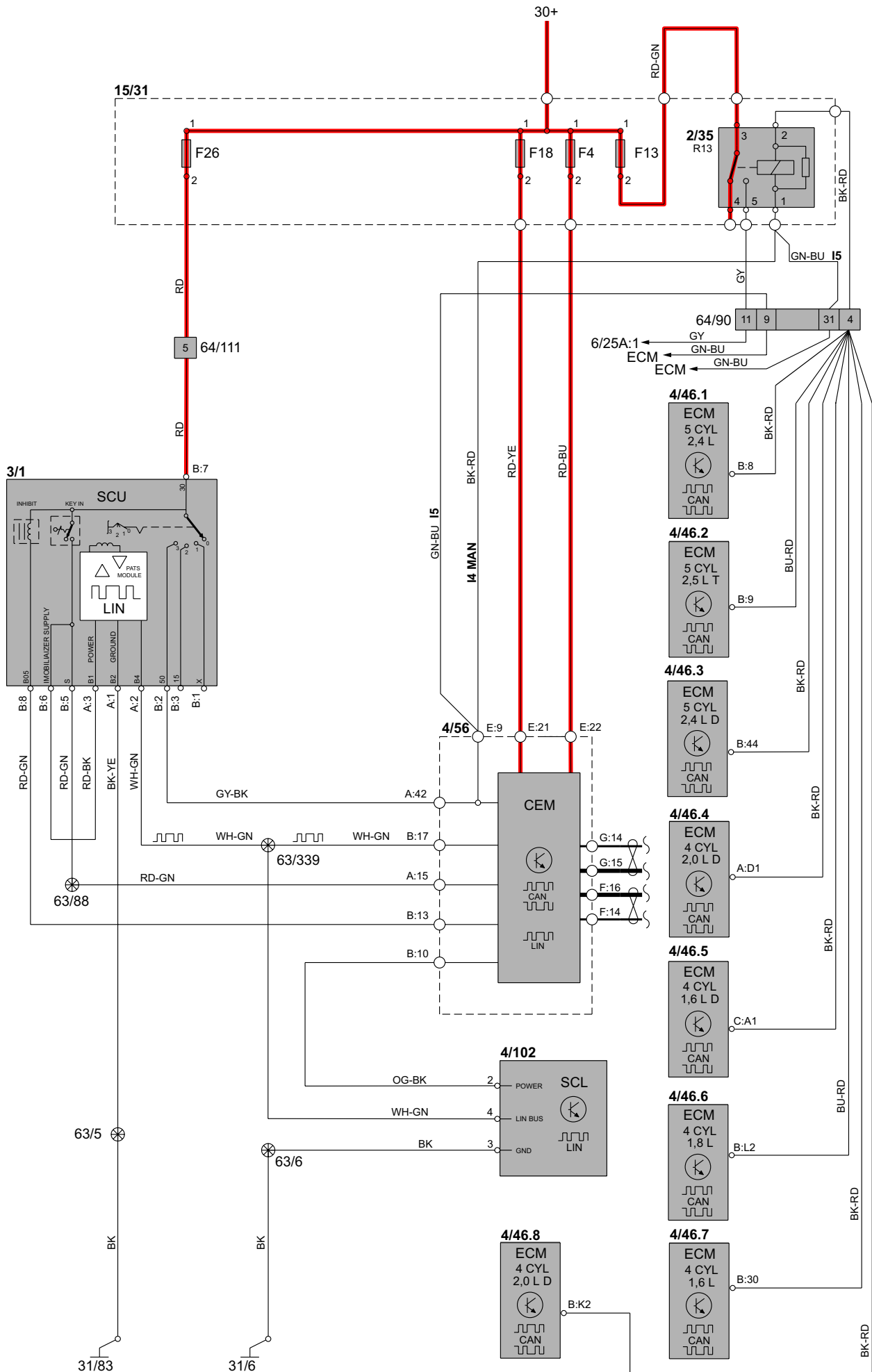
Group 36 Additional electrical equipment

Rear window wiper/washer C30/V50



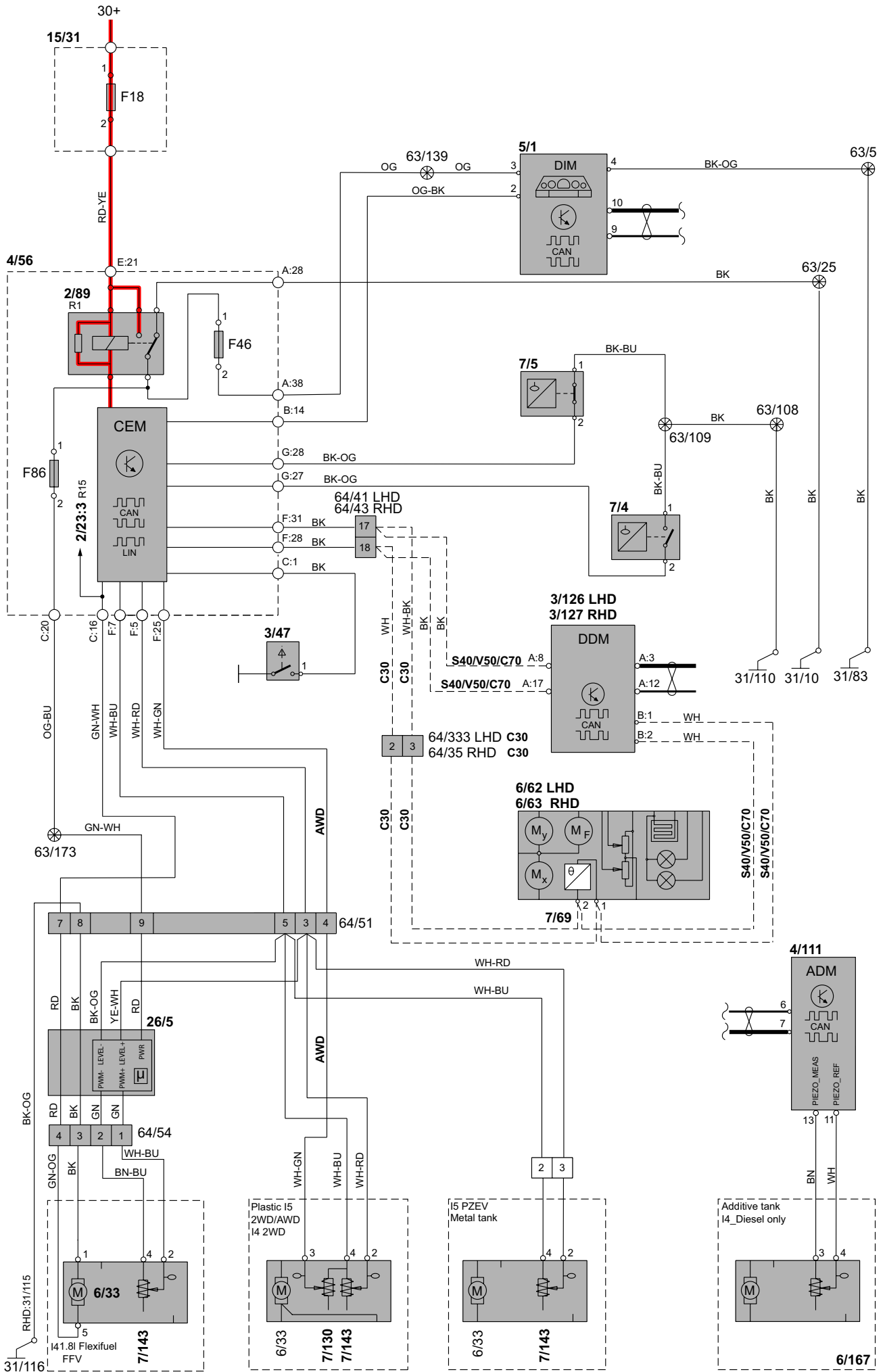
Group 36 Additional electrical equipment

Immobilizer/Steering column lock module (SCL)



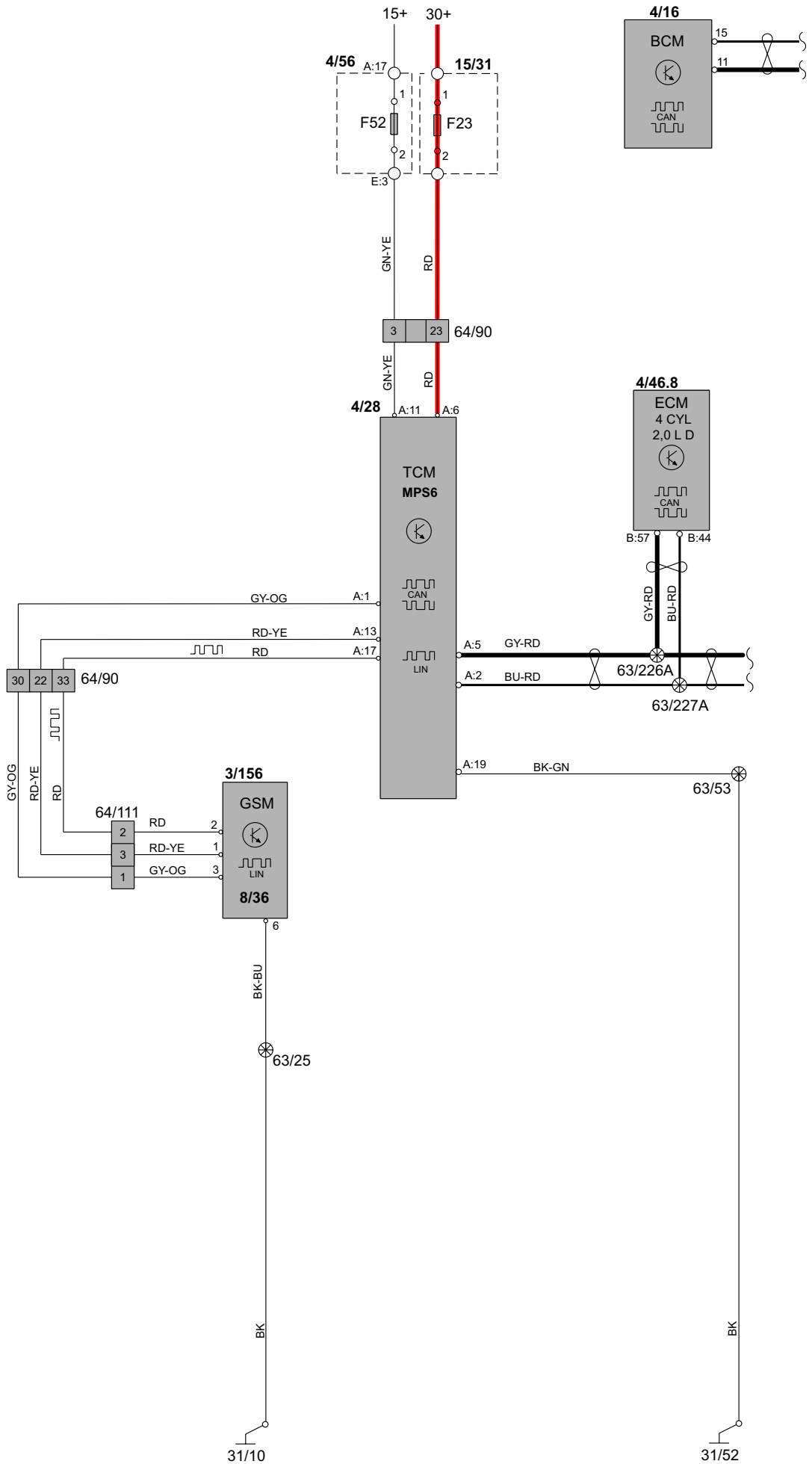
Group 38 Instruments

Driver information module



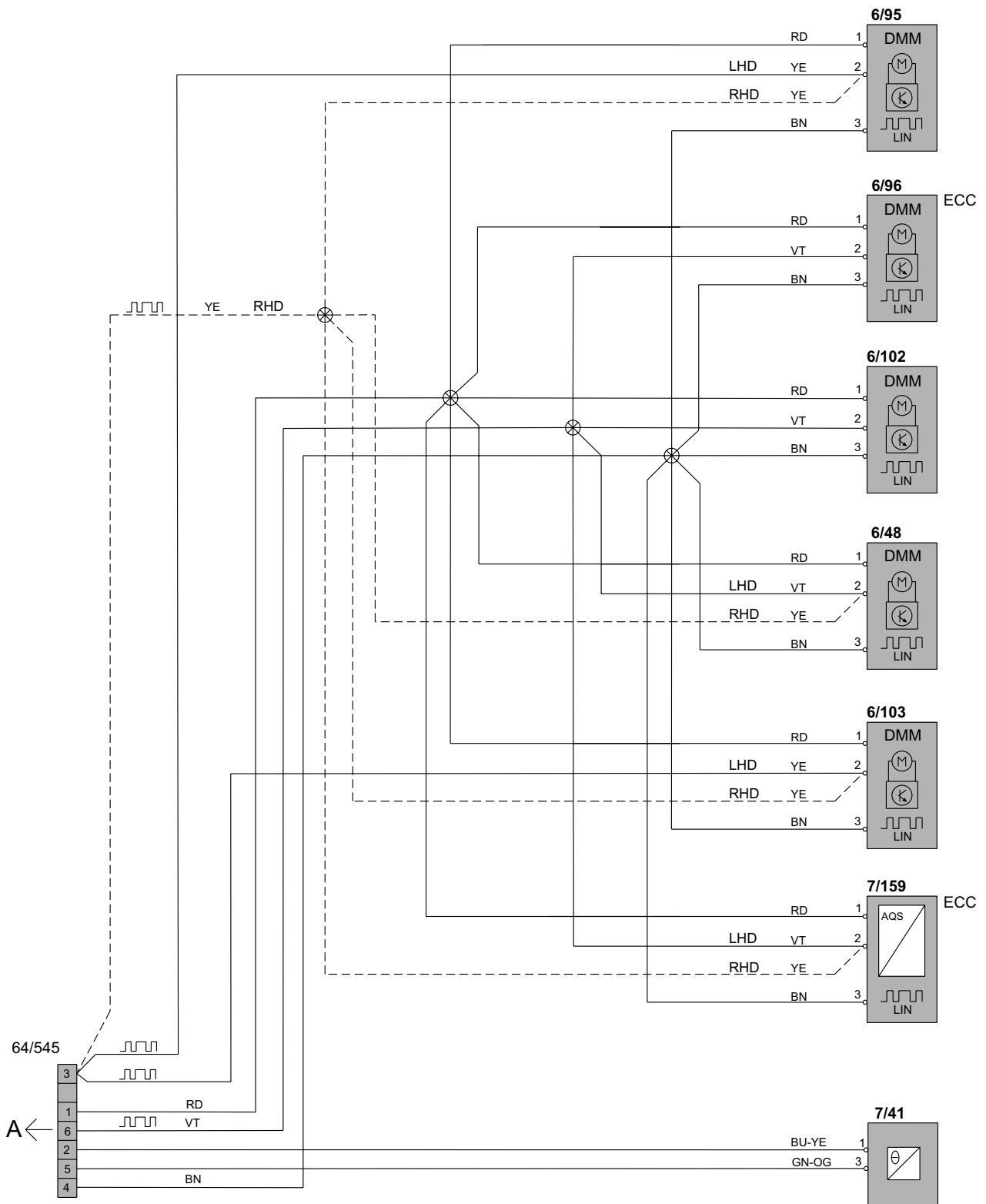
Group 43 Transmission

Automatic transmission MPS6



Group 87 Climate control system

Climate control system, Diesel 1.6l & 2.0l 2:2



Connectors

64/90:1-4

64/90

41-pin black

No.	Engine harness		Engine compartment harness	
1	4/46.1B:45 Engine Control Module (ECM), 5-cyl. 2.4l 4/46.2B:41 Engine Control Module (ECM), 5-cyl. 2.5l T 4/46.3B:23 Engine control module (ECM), 5-cyl. 2.4l Diesel 4/46.4A:3A Engine control module (ECM), 4-cyl. 2.0l Diesel 4/46.5A:3A Engine control module (ECM), 4-cyl. 1.6l Diesel 4/46.6A:B4 Engine Control Module (ECM), 4-cyl. 1.8l 4/46.7B:19 Engine Control Module (ECM), 4-cyl. 1.6l	BU-RD	63/227 Branching point 63/227A Branching point	BU-RD
2	4/46.3A:37 Engine control module (ECM), 5-cyl. 2.4l Diesel 4/46.4B:E1 Engine control module (ECM), 4-cyl. 2.0l Diesel 4/46.5C:F2 Engine control module (ECM), 4-cyl. 1.6l Diesel	BK-YE	4/109:7 Glow plug control module, 5-cyl. Diesel 2/14:2 Relay, glow plug system. 4-cyl Diesel	BN-GN BK-YE
3	4/28A:11 Transmission Control Module (TCM), 5-cyl. & 4-cyl. Diesel	GN-YE	4/56E:3 Central Electronic Module (CEM)	GN-YE
4	4/46.1B:8 Engine Control Module (ECM), 5-cyl. 2.4l 4/46.2B:9 Engine Control Module (ECM), 5-cyl. 2.5l T 4/46.3B:44 Engine control module (ECM), 5-cyl. 2.4l Diesel 4/46.4A:1D Engine control module (ECM), 4-cyl. 2.0l Diesel 4/46.5C:1A Engine control module (ECM), 4-cyl. 1.6l Diesel 4/46.6B:L2 Engine Control Module (ECM), 4-cyl. 1.8l 4/46.7B:30 Engine Control Module (ECM), 4-cyl. 1.6l 4/46.8B:K2 Engine control module (ECM), 4-cyl. 2.0l Diesel	BK-RD	2/35:2 Relay, starter motor	BK-RD
continues				

Connectors

64/90:5-8

64/90

41-pin black

No.	Engine harness		Engine compartment harness			
5	4/46.1B:28	Engine Control Module (ECM), 5-cyl.	BU	8/119:2	Pressure monitor, climate control system 5-cyl.	BU
	4/46.2B:25	Engine Control Module (ECM), 5-cyl. 2.5l T				
	4/56.3B:36	Engine control module (ECM), 5-cyl. 2.4l Diesel				
	4/46.4A:H2	Engine control module (ECM), 4-cyl. 2.0l Diesel	BK-YE	8/119:2	Pressure monitor, climate control system, 4-cyl. Diesel	BK-YE
	4/46.5A:C4	Engine control module (ECM), 4-cyl. 1.6l Diesel				
	4/46.8C:E4	Engine control module (ECM), 4-cyl. 2.0l Diesel				
	4/46.6B:F2	Engine Control Module (ECM), 4-cyl. 1.8l	BK-OG	8/119:2	Pressure monitor, climate control system, 4-cyl.	BK-OG
	4/46.7B:22	Engine Control Module (ECM), 4-cyl. 1.6l				
6	9/38:1	Heated fuel filter, 4-cyl. Diesel	GN-RD	F33:2	Fuse	GN-RD
	63/86A	Branching point	RD			
	4/46.1B:15	Engine Control Module (ECM), 5-cyl. 2.4l	BN	64/113:14	Connector	BN
	4/46.2B:13	Engine Control Module (ECM), 5-cyl. 2.5l T				
7	4/46.4A:E2	Engine control module (ECM), 4-cyl. 2.0l Diesel	WH-GN	4/56G:30	Central Electronic Module (CEM), Diesel	WH-GN
	4/46.5C:B3	Engine control module (ECM), 4-cyl. 1.6l Diesel				
	4/46.8C:F3	Engine control module (ECM), 4-cyl. 2.0l Diesel				
8	4/46.1B:41	Engine Control Module (ECM), 5-cyl. 2.4l	GN-WH	4/56E:40	Central Electronic Module (CEM)	GN-WH
	4/46.2B:30	Engine Control Module (ECM), 5-cyl. 2.5l T				
	4/46.3B:48	Engine control module (ECM), 5-cyl. 2.4l Diesel				
	4/46.4A:E4	Engine control module (ECM), 4-cyl. 2.0l Diesel				
	4/46.5A:A2	Engine control module (ECM), 4-cyl. 1.6l Diesel				
	4/46.6B:E3	Engine Control Module (ECM), 4-cyl. 1.8l				
	4/46.7A:40	Engine Control Module (ECM), 4-cyl. 1.6l				
	4/46.8C:F3	Engine control module (ECM), 4-cyl. 2.0l Diesel				
	continues					

Connectors

64/90:9-14

64/90

41-pin black

No.	Engine harness		Engine compartment harness			
9	4/46.1B:17 4/46.2B:17 4/46.3B:33	Engine Control Module (ECM), 5-cyl. Engine Control Module (ECM), 5-cyl. Engine control module (ECM), 5-cyl. 2.4l Diesel	GN-BU	4/56 E:9	Central Electronic Module (CEM), 5-cyl	GN-BU
10	3/10:2 3/10:3	Reversing light contact Reversing light contact	GN-YE GN-WH	4/56E:14	Central Electronic Module (CEM)	GN-BU
11	64/120:1	Connector	GY	2/35:5	Relay, starter motor	GY
12	8/77:1 8/120:3 8/133:1 63/103 63/52 63/95 8/111:2	Control valve, fuel volume EGR valve, 5-cyl. Diesel Fuel pressure control valve, 4-cyl. 2.0l Diesel Branching point Branching point, 4-cyl. 1.6l Branching point, 4-cyl. 1.8l High-pressure solenoid valve, Diesel 4-cyl. 1.6l	GN-BU GN-RD GN-YE	F34:2	Fuse	GN-BU
13	4/46.1B:30 4/46.2B:15 4/46.4B:G4 4/46.7B:9 4/46.8B:G4 63/85	Engine Control Module (ECM), 5-cyl. 2.4l Engine Control Module (ECM), 5-cyl. 2.5l T Engine control module (ECM), 4-cyl. 2.0l Diesel Engine Control Module (ECM), 4-cyl. 1.6l Engine control module (ECM), 4-cyl. 2.0l Diesel Branching point	GN-YE RD	F54:2 64/111:4 2/142:5 F30:2	Fuse Connector Relay, 5-cyl. 2.4l Diesel Fuse	GN-YE RD
14	63/54 63/65 8/18:1 8/65:2	Branching point Branching point, 5-cyl. Diesel EVAP valve Power steering pressure monitor	GN-BU GN-RD GN-WH	F35:2	Fuse	GN-BU
continues						

Connectors

64/90:15-17

64/90
41-pin black

No.	Engine harness		Engine compartment harness	
15	4/46.1B:58 Engine Control Module (ECM), 5-cyl. 2.4l 4/46.2B:54 Engine Control Module (ECM), 5-cyl. 2.5l T 4/46.3B:22 Engine control module (ECM), 5-cyl. 2.4l Diesel 4/46.4A:4A Engine control module (ECM), 4-cyl. 2.0l Diesel 4/46.5A:4A Engine control module (ECM), 4-cyl. 1.6l Diesel 4/46.6A:A4 Engine Control Module (ECM), 4-cyl. 1.8l 4/46.7B:31 Engine Control Module (ECM), 4-cyl. 1.6l	GY-RD	63/226 Branching point 63/226A Branching point	GY-RD
16	4/46.3A:90 Engine control module (ECM), 5-cyl. 2.4l Diesel 4/46.4B:D4 Engine control module (ECM), 4-cyl. 2.0l Diesel 4/46.5C:A4 Engine control module (ECM), 4-cyl. 1.6l Diesel	WH-BU	2/14 Relay, glow plug system 4/109:7 Glow plug control module, 5-cyl. Diesel	WH-BU
17	4/46.1B:10 Engine Control Module (ECM), 5-cyl. 2.4l 4/46.2B:10 Engine Control Module (ECM), 5-cyl. 2.5l T 4/46.3B:32 Engine control module (ECM), 5-cyl. 2.4l Diesel 4/46.4A:D4 Engine control module (ECM), 4-cyl. 2.0l Diesel 4/46.5C:E2 Engine control module (ECM), 4-cyl. 1.6l Diesel 4/46.6B:B2 Engine Control Module (ECM), 4-cyl. 1.8l 4/46.7A:9 Engine Control Module (ECM), 4-cyl. 1.6l 4/46.8A:F2 Engine control module (ECM), 4-cyl. 2.0l Diesel	BK-YE	2/22:2 Relay, climate control system	BK-YE
continues				

Connectors

64/90:18-20

64/90
41-pin black

No.	Engine harness		Engine compartment harness		
18	8/3:1 8/3:2	Electromagnetic clutch, climate control system Electromagnetic clutch, climate control system, 4-cyl. Diesel	GN-YE	2/22:5 Relay, climate control system	GN-YE
19	4/46.1B:51 4/46.2B:51 4/46.3B:26 4/46.4A:D2 4/46.5A:G3 4/46.8C:B3 4/46.6B:F1 4/46.7B:34	Engine Control Module (ECM), 5-cyl. 2.4l Engine Control Module (ECM), 5-cyl. 2.5l T Engine control module (ECM), 5-cyl. 2.4l Diesel Engine control module (ECM), 4-cyl. 2.0l Diesel Engine control module (ECM), 4-cyl. 2.0l Diesel Engine control module (ECM), 4-cyl. 2.0l Diesel Engine Control Module (ECM), 4-cyl. 1.8l Engine Control Module (ECM), 4-cyl. 1.6l	WH-VT BK-BU WH-VT	7/8:2 Pressure sensor, climate control system 8/127:2 Pressure switch, climate control system, Diesel	WH-VT BK-BU
20	6/26A:3 4/46.3B:41	Alternator, 4-cyl. Engine control module (ECM), 5-cyl. 2.4l Diesel	RD GN-YE	F31:2 Fuse, 4-cyl. 64/111:4 Connector	RD GN-YE
continues					

Connectors

64/90:21-25

64/90
41-pin black

No.	Engine harness		Engine compartment harness		
21	4/46.1B:16 4/46.2B:27 4/46.3B:42 4/46.4B:H3 4/46.5B:E1 4/46.6B:G1 4/46.7A:8 4/46.8A:C1	Engine Control Module (ECM), 5-cyl. 2.4l Engine Control Module (ECM), 5-cyl. 2.5l T Engine control module (ECM), 5-cyl. 2.4l Diesel Engine control module (ECM), 4-cyl. 2.0l Diesel Engine control module (ECM), 4-cyl. 1.6l Diesel Engine Control Module (ECM), 4-cyl. 1.8l Engine Control Module (ECM), 4-cyl. 1.6l Engine control module (ECM), 4-cyl. 2.0l Diesel	BK-BU	2/32:2 Main relay, engine management system	BK-BU
22	4/28A:16 4/28A:13	Transmission Control Module (TCM) Transmission Control Module (TCM)	RD-YE	64/111:3 Connector	RD-YE
23	63/56 4/28A:1 4/28A:6 4/46.1B:54 4/46.2B:16	Branching point Transmission Control Module (TCM) Transmission Control Module (TCM) Engine Control Module (ECM), 5-cyl. 2.4l Engine Control Module (ECM), 5-cyl. 2.5l T	RD	F23:2 Fuse	RD
24	4/46.1B:20 4/46.2B:21 20/26:1	Engine Control Module (ECM), 5-cyl. 2.4l Engine Control Module (ECM), 5-cyl. 2.5l T Glow plug	WH-BK WH-RD	64/113:7 Connector 4/109:1 Glow plug control module, Diesel	WH-BK GN-OG
25	4/46.1B:33 4/46.2B:23 20/25:1	Engine Control Module (ECM), 5-cyl. 2.4l Engine Control Module (ECM), 5-cyl. 2.5l T Glow plug, 5-cyl. Diesel	BN-WH WH-RD	64/113:12 Connector 4/109:2 Glow plug control module, 5-cyl. Diesel	BK-WH GN-WH
continues					

Connectors

64/90:26-30

64/90

41-pin black

No.	Engine harness		Engine compartment harness			
26	4/46.1B:23	Engine Control Module (ECM), 5-cyl. 2.4l	WH-VT	64/113:11	Connector	WH-VT
	4/46.2B:45	Engine Control Module (ECM), 5-cyl. 2.5l T				
	20/24:1	Glow plug, 5-cyl.	WH-RD	4/109:3	Glow plug control module, 5-cyl. Diesel	GN-BU
27	4/46.1B:46	Engine Control Module (ECM), 5-cyl. 2.4l	YE-VT	64/113:10	Connector	YE-VT
	4/46.2B:46	Engine Control Module (ECM), 5-cyl. 2.5l T				
	20/23:1	Glow plug, 5-cyl. 2.4l Diesel	WH-RD	4/109:4	Glow plug control module, 5-cyl. Diesel	GN-RD
28	4/46.1B:26	Engine Control Module (ECM), 5-cyl. 2.4l	GY	7/51:5	Accelerator pedal sensor	GY
	4/46.2B:26	Engine Control Module (ECM), 5-cyl. 2.5l T				
	4/46.3B:47	Engine control module (ECM), 5-cyl. 2.4l Diesel				
	4/46.4A:F3	Engine control module (ECM), 4-cyl. 2.0l Diesel				
	4/46.5A:B3	Engine control module (ECM), 4-cyl. 1.6l Diesel				
	4/46.6B:D2	Engine Control Module (ECM), 4-cyl. 1.8l				
	4/46.7A:47	Engine Control Module (ECM), 4-cyl. 1.6l				
	4/46.8C:E3	Engine control module (ECM), 4-cyl. 2.0l Diesel				
29	4/46.1B:31	Engine Control Module (ECM), 5-cyl. 2.4l	YE-RD	7/8:3	Pressure sensor, climate control system	YE-RD
	4/46.2B:31	Engine Control Module (ECM), 5-cyl. 2.5l T				
	4/46.3B:16	Engine control module (ECM), 5-cyl. 2.4l Diesel				
	4/46.6C:C4	Engine Control Module (ECM), 4-cyl. 1.8l				
	4/46.7A:17	Engine Control Module (ECM), 4-cyl. 1.6l				
30	4/28A:13	Transmission Control Module (TCM), 5-cyl.	GY-OG	64/111:1	Connector	GY-OG
	4/28A:1	Transmission Control Module (TCM), 4-Cyl. Diesel				
continues						

Connectors

64/90:31-36

64/90
41-pin black

No.	Engine harness		Engine compartment harness			
31	4/46.1B:11 4/46.2B:11 4/46.3B:29	Engine Control Module (ECM), 5-cyl. 2.4l Engine Control Module (ECM), 5-cyl. 2.5l T Auto Engine control module (ECM), 5-cyl. 2.4l Diesel	GN-BU	2/35:1	Relay, starter motor	GN-BU
32	4/46.1B:47 4/46.2B:53 4/46.3B:27 4/46.7A:39 63/63	Engine Control Module (ECM), 5-cyl. 2.4l Engine Control Module (ECM), 5-cyl. 2.5l T Engine control module (ECM), 5-cyl. 2.4l Diesel Engine Control Module (ECM), 4-cyl. 1.6l Branching point, 4-cyl. 1.8l	BN-RD	7/8:1	Pressure sensor, climate control system	BN-RD
33	4/28A:7 4/28A:17	Transmission Control Module (TCM), 5-cyl. Transmission Control Module (TCM), 4-Cyl. Diesel	RD	64/111:2	Connector	RD
34	4/46.1B:7 4/46.2B:8 4/46.3A:58 4/46.4A:B2 4/46.5A:B2 4/46.6B:C2 4/46.7A:10 4/46.8A:C2	Engine Control Module (ECM), 5-cyl. 2.4l Engine Control Module (ECM), 5-cyl. 2.5l T Engine control module (ECM), 5-cyl. 2.4l Diesel Engine control module (ECM), 4-cyl. 2.0l Diesel Engine control module (ECM), 4-cyl. 1.6l Diesel Engine Control Module (ECM), 4-cyl. 1.8l Engine Control Module (ECM), 4-cyl. 1.6l Engine control module (ECM), 4-cyl. 2.0l Diesel	WH-RD	4/71:4	Cooling fan control module	WH
35	4/46.3A:32 7/82:1	Engine control module (ECM), 5-cyl. 2.4l Diesel Rear heated oxygen sensor, Turbo	GN-BU GN-YE	4/109:10 63/13	Glow plug control module, Diesel Branching point, Turbo	YE-GN GN-YE
36	-	-	-	-	-	-
continues						

Connectors

64/90:37-41

64/90

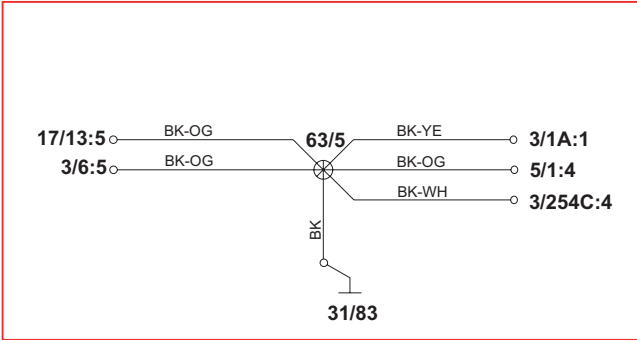
41-pin black

No.	Engine harness		Engine compartment harness			
37	4/46.1B:14	Engine Control Module (ECM), 5-cyl. 2.4l	GN-YE	4/56E:10	Central Electronic Module (CEM), 5-cyl.	GN-YE
	4/46.2B:14	Engine Control Module (ECM), 5-cyl. 2.5l T				
	4/46.3B:38	Engine control module (ECM), 5-cyl. 2.4l Diesel		4/56E:10	Central Electronic Module (CEM), 4-cyl	GN-BU
	4/46.5A:C3	Engine control module (ECM), 4-cyl. 1.6l Diesel	GN-BU			
	4/46.6B:G2	Engine Control Module (ECM), 4-cyl. 1.8l				
	4/46.4A:C3	Engine control module (ECM), 4-cyl. 2.0l Diesel				
	4/46.7B:21	Engine Control Module (ECM), 4-cyl. 1.6l				
	4/46.8A:C3	Engine control module (ECM), 4-cyl. 2.0l Diesel				
38	4/109:5	Glow plug control module, Diesel	GN-YE	20/22:1	Glow plug	WH-RD
39	7/15:1	Front heated oxygen sensor, 1.8l	GN-RD	F32:2	Fuse	GN-YE
	7/15:2	Front heated oxygen sensor, 1.6l				
	8/121:1	Coolant valve, Diesel	GN-BK			
	8/122:4	Bypass valve, intercooler				
	7/82:1	Rear heated oxygen sensor, 1.8l	GN-YE			
	7/82:2	Rear heated oxygen sensor, 1.6l				
	63/98	Branching point				
	7/17:1	Mass air flow sensor MAF, 5-Cyl. 2.4l Diesel	GN-BU			
6/143:1	Regulator motor, Turbo, 5-Cyl. 2,4l Diesel					
40	7/15:3	Front heated oxygen sensor, Turbo	GN-YE	F33:2	Fuse	GN-RD
	63/61	Branching point		63/13	Branching point, 5-cyl.	GN-YE
	4/46.3B:5	Engine control module (ECM), 5-cyl. 2.4l Diesel	GN-OG			
41	4/46.5A:G1	Engine control module (ECM), 4-cyl. 1.6l Diesel	GN-OG	F36:2	Fuse	GN-BU
	4/46.5B:M2	Engine control module (ECM), 4-cyl. 1.6l Diesel				
	4/46.6B:M2	Engine Control Module (ECM), 4-cyl. 1.8l				
	4/46.6B:M3	Engine Control Module (ECM), 4-cyl. 1.8l				
	4/46.7B:8	Engine Control Module (ECM), 4-cyl. 1.6l				
	63/65	Branching point	GN-BU			
	7/15:4	Side impact sensor, front left	GN-YE			

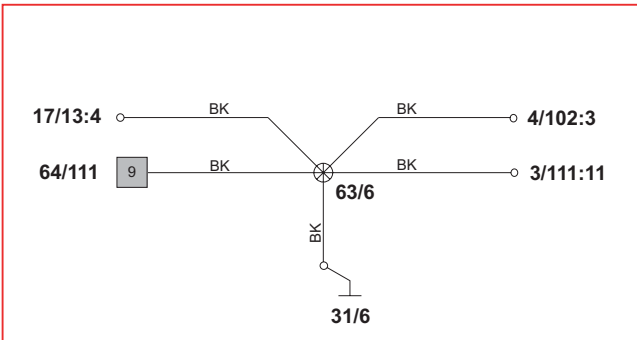
Branching points

63/5 - 63/36

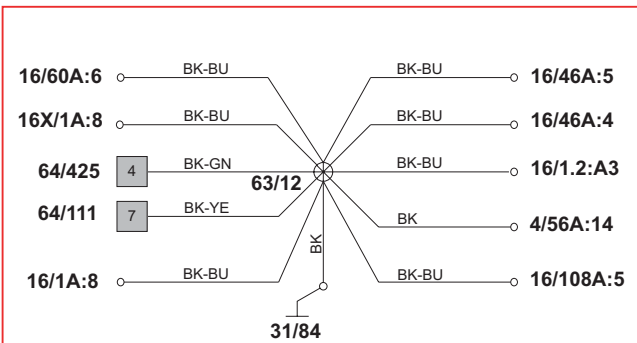
63/5



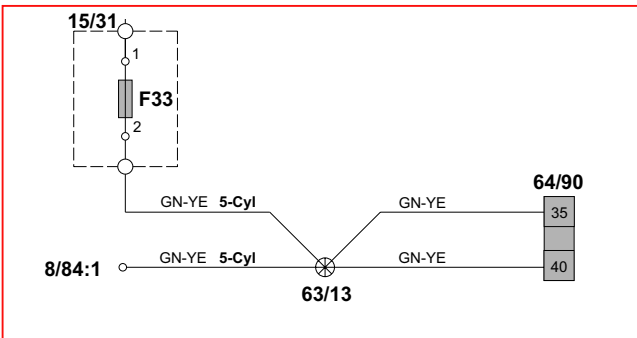
63/6



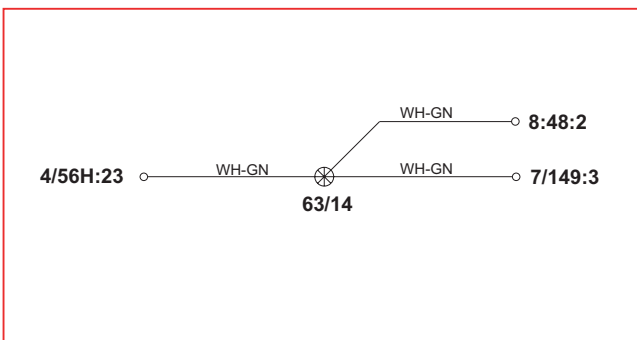
63/12



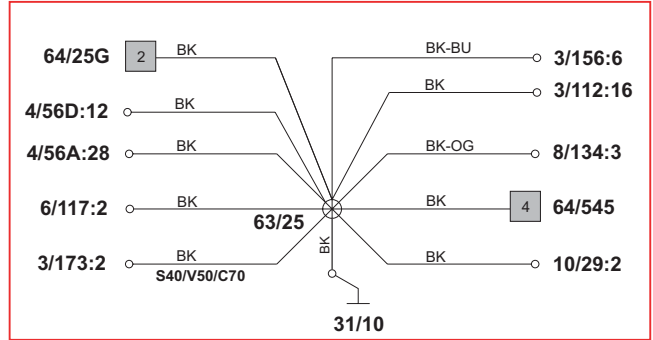
63/13 5-cyl.



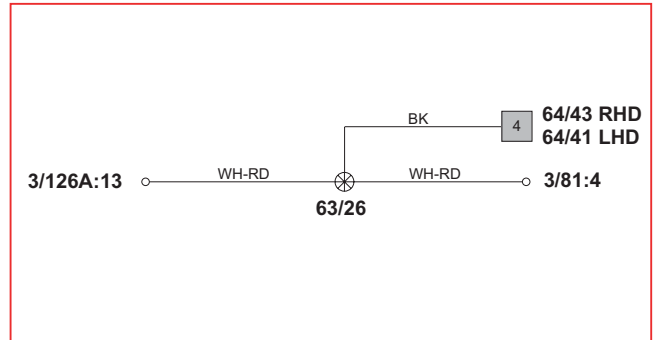
63/14



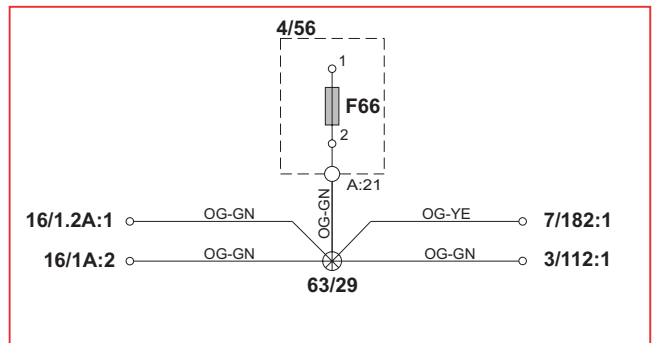
63/25



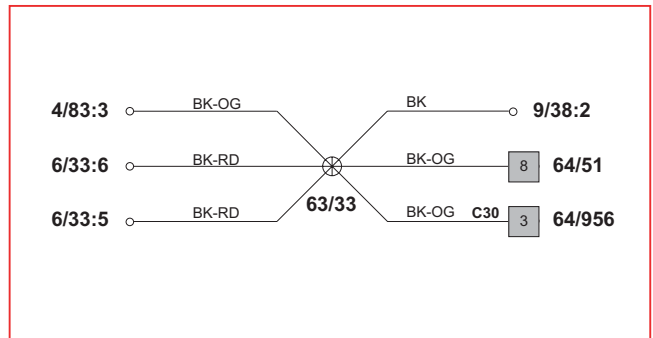
63/26 S40/V50 /C70



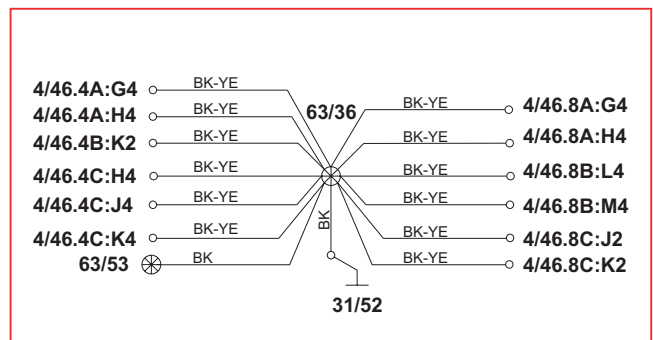
63/29



63/33 5-cyl.



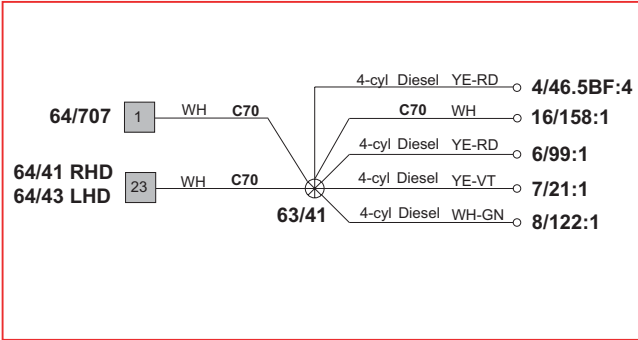
63/36



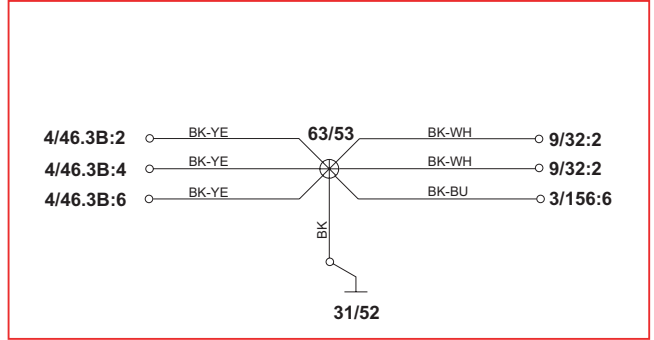
Branching points

63/41 - 63/65 4-cyl. 2.0l Diesel

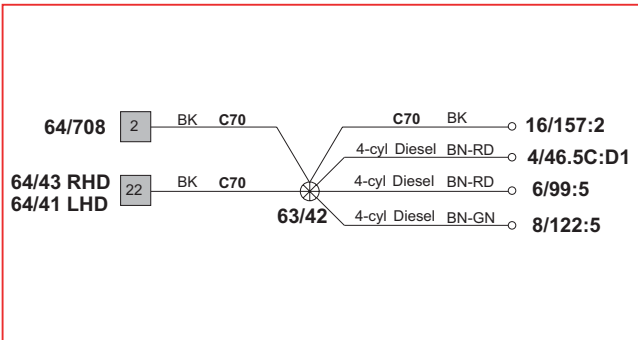
63/41



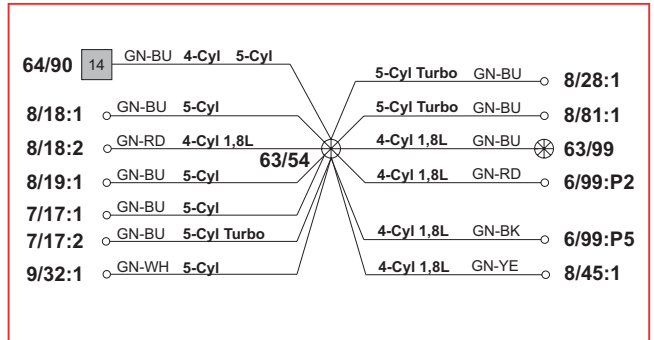
63/53 5-cyl. Diesel



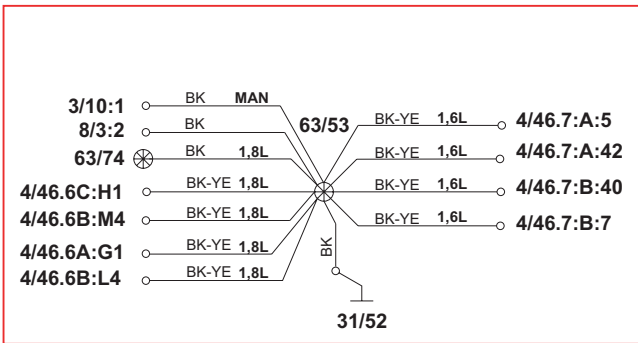
63/42



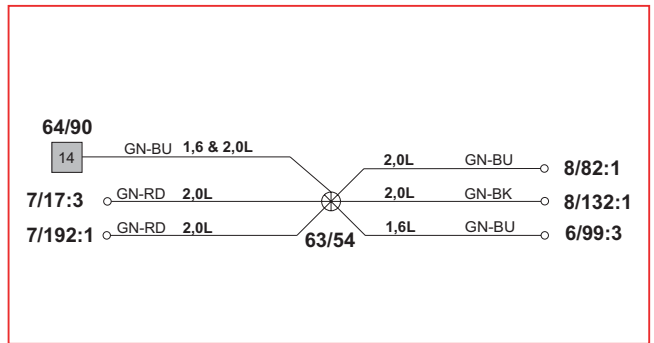
63/54 Gasoline



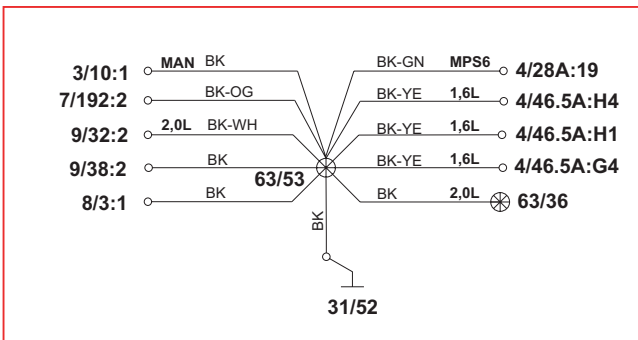
63/53 4-cyl.



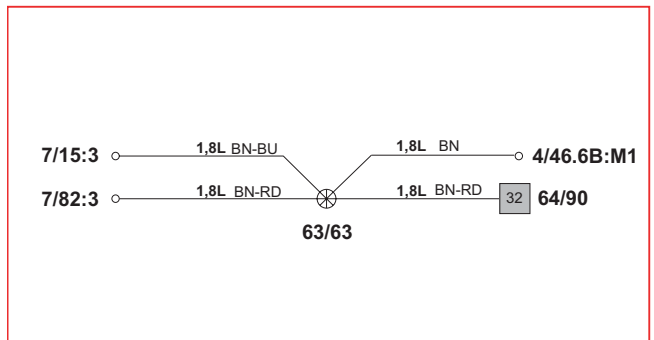
63/54 4-cyl. Diesel



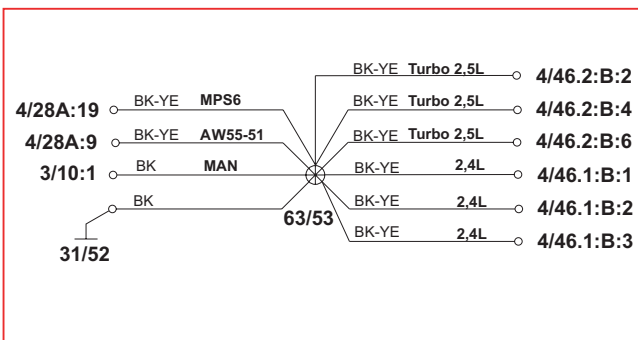
63/53 4-cyl. Diesel



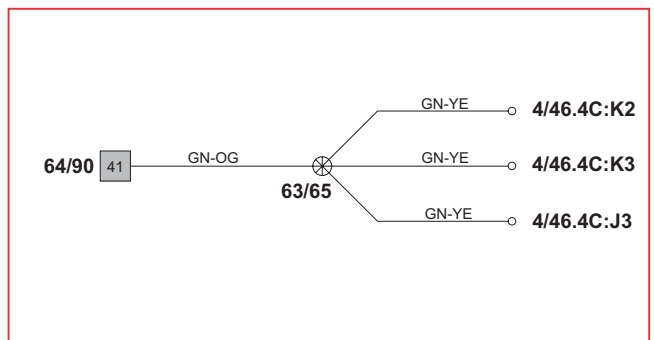
63/63 4-cyl.



63/53 5-cyl.



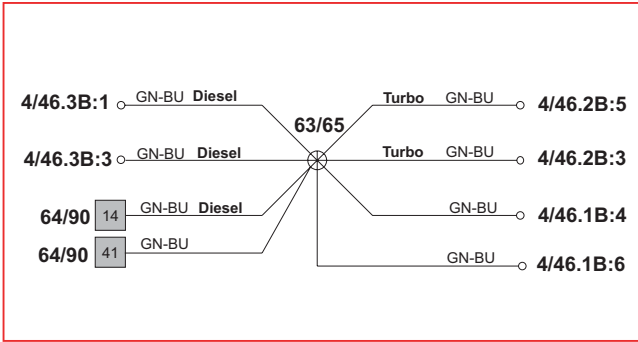
63/65 4-cyl. 2.0l Diesel



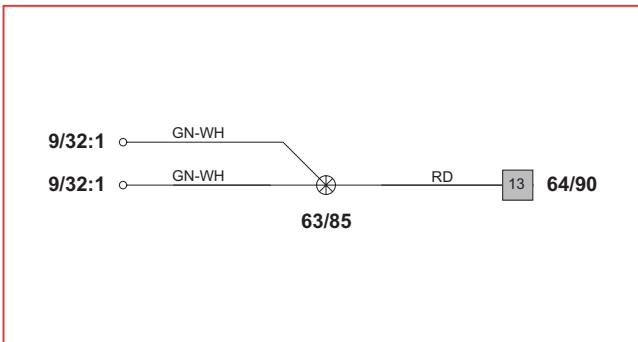
Branching points

63/65 5-cyl. - 63/124 4-cyl. Diesel

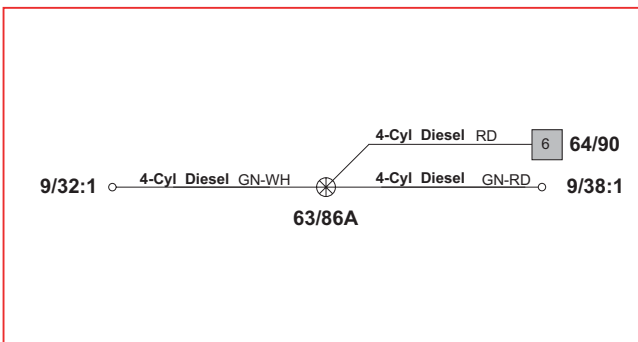
63/65 5-cyl.



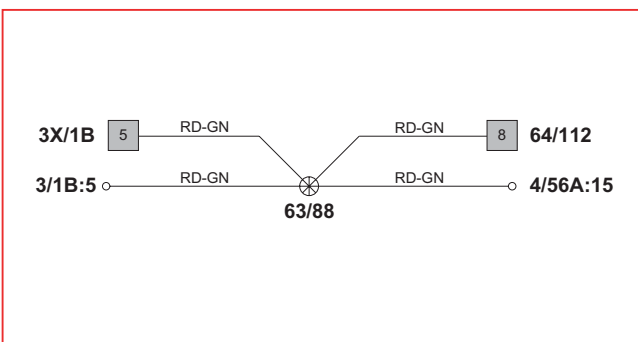
63/85



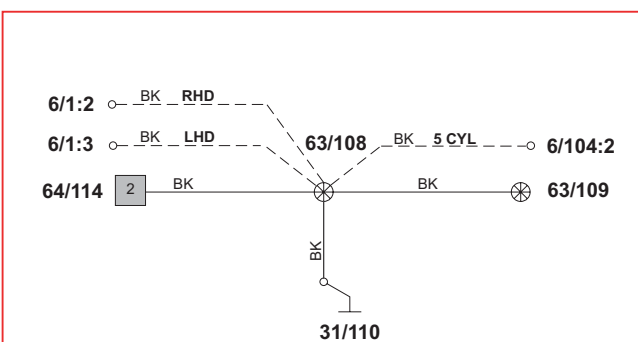
63/86 A 4-cyl. Diesel



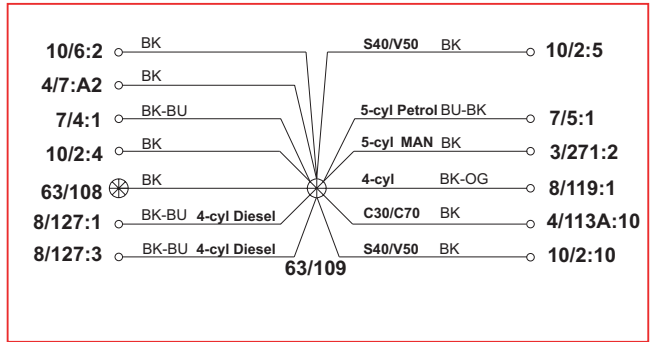
63/88



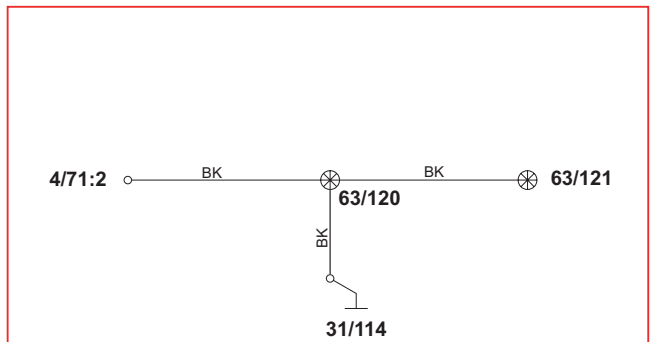
63/108



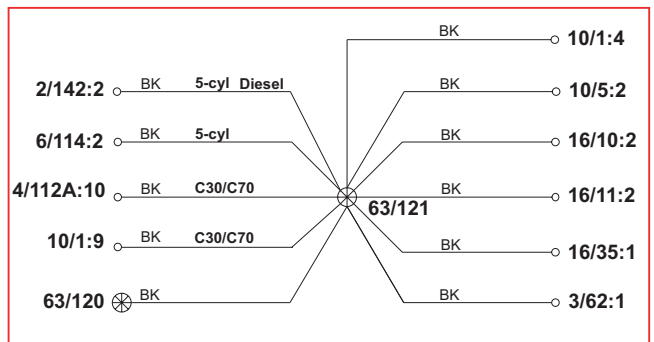
63/109



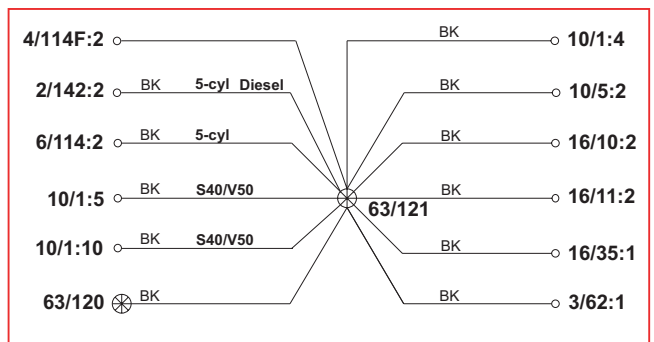
63/120



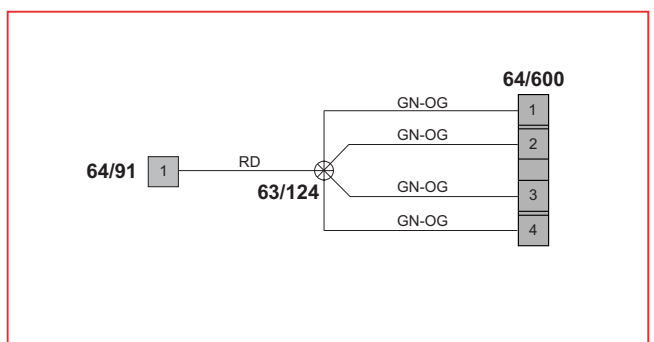
63/121 C30/C70



63/121 S40/V50



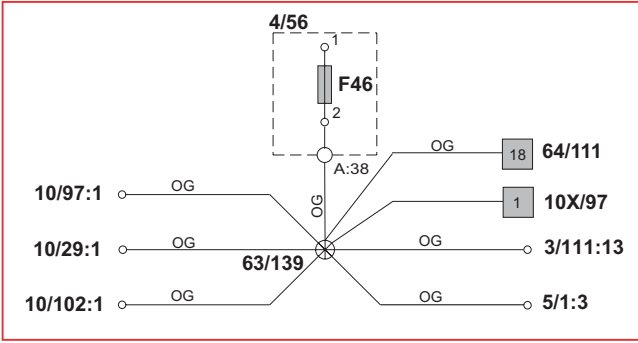
63/124 4-cyl. Diesel



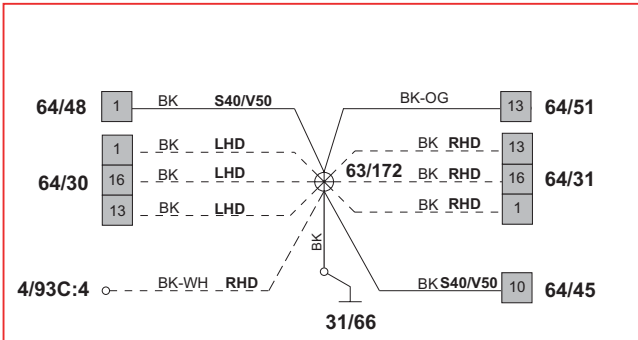
Branching points

63/139 C30/S40/V50 - 63/223

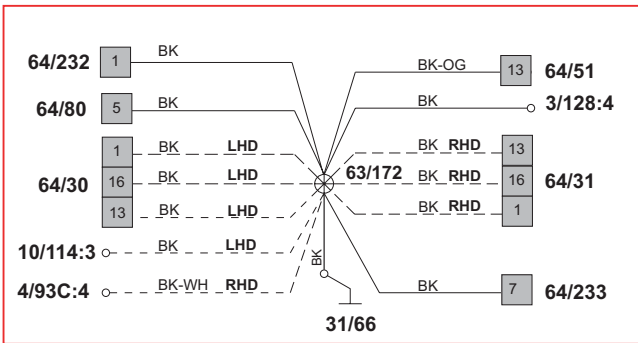
63/139 C30/S40/V50



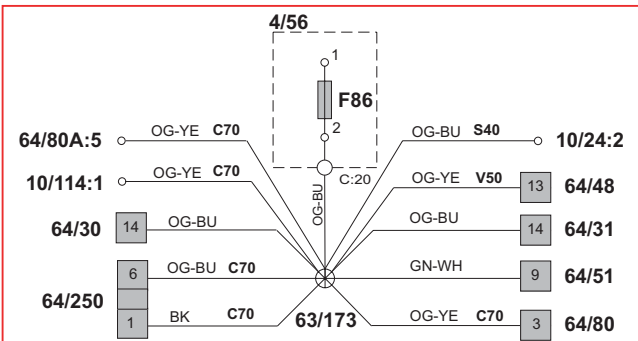
63/172 S40/V50



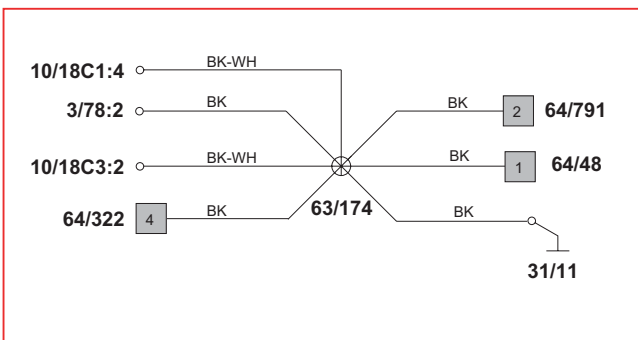
63/172 C70



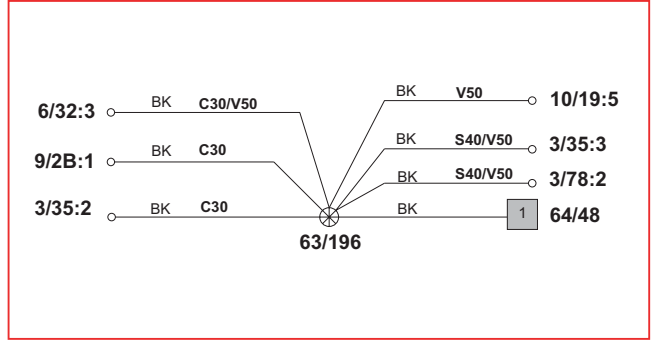
63/173



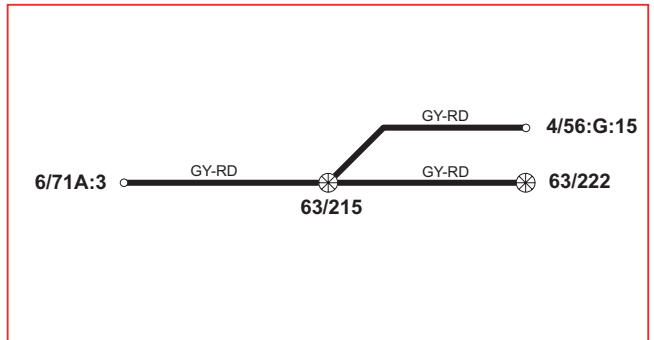
63/174 C30



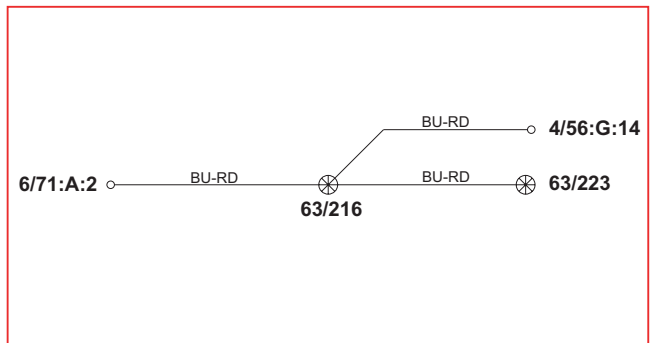
63/196 C30/S40/V50



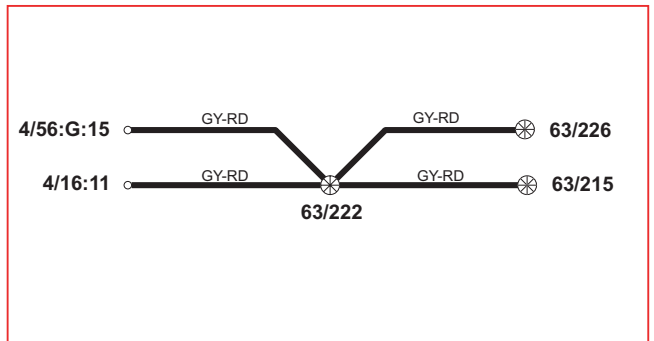
63/215



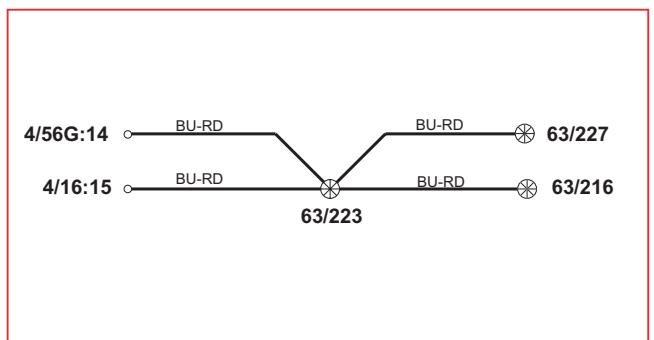
63/216



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63/223



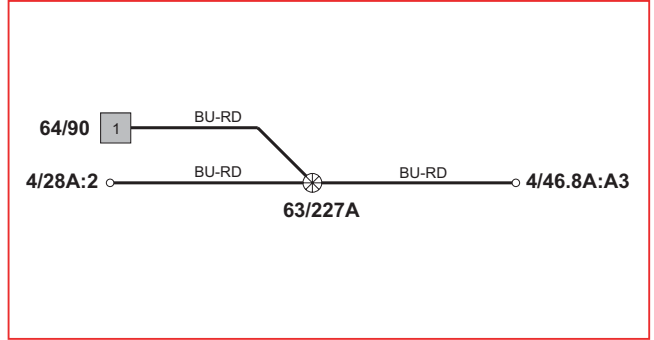
Branching points

63/224 - 63/339

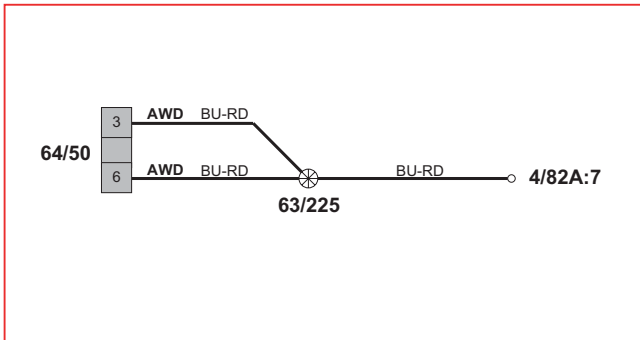
63/224



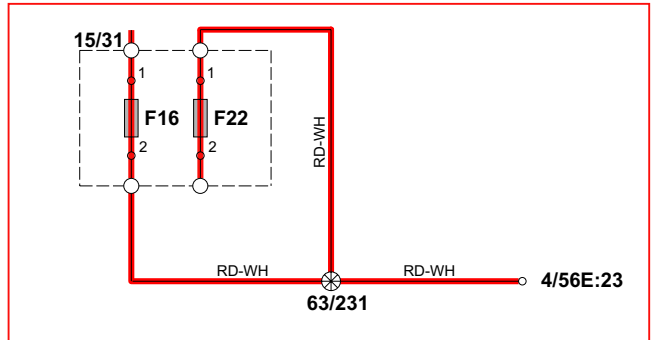
63/227A



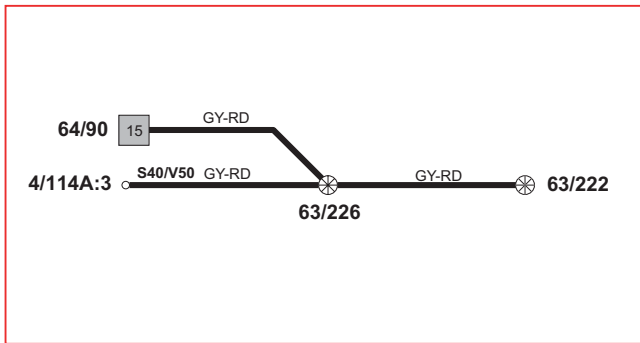
63/225



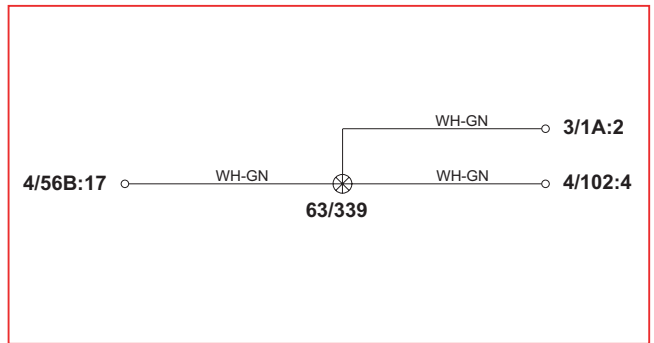
63/231 C70



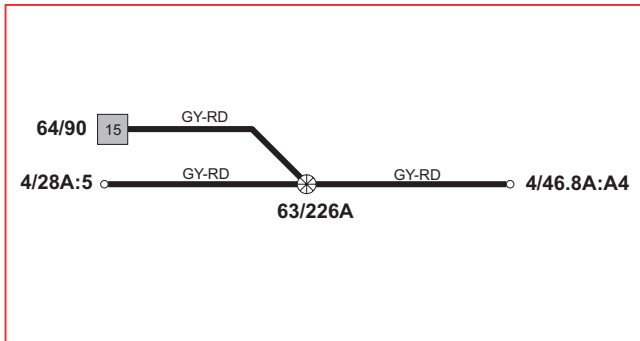
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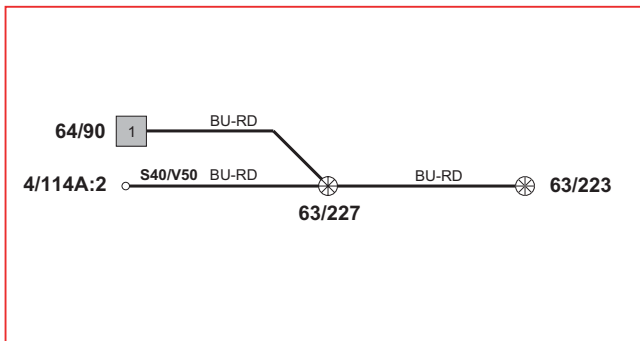
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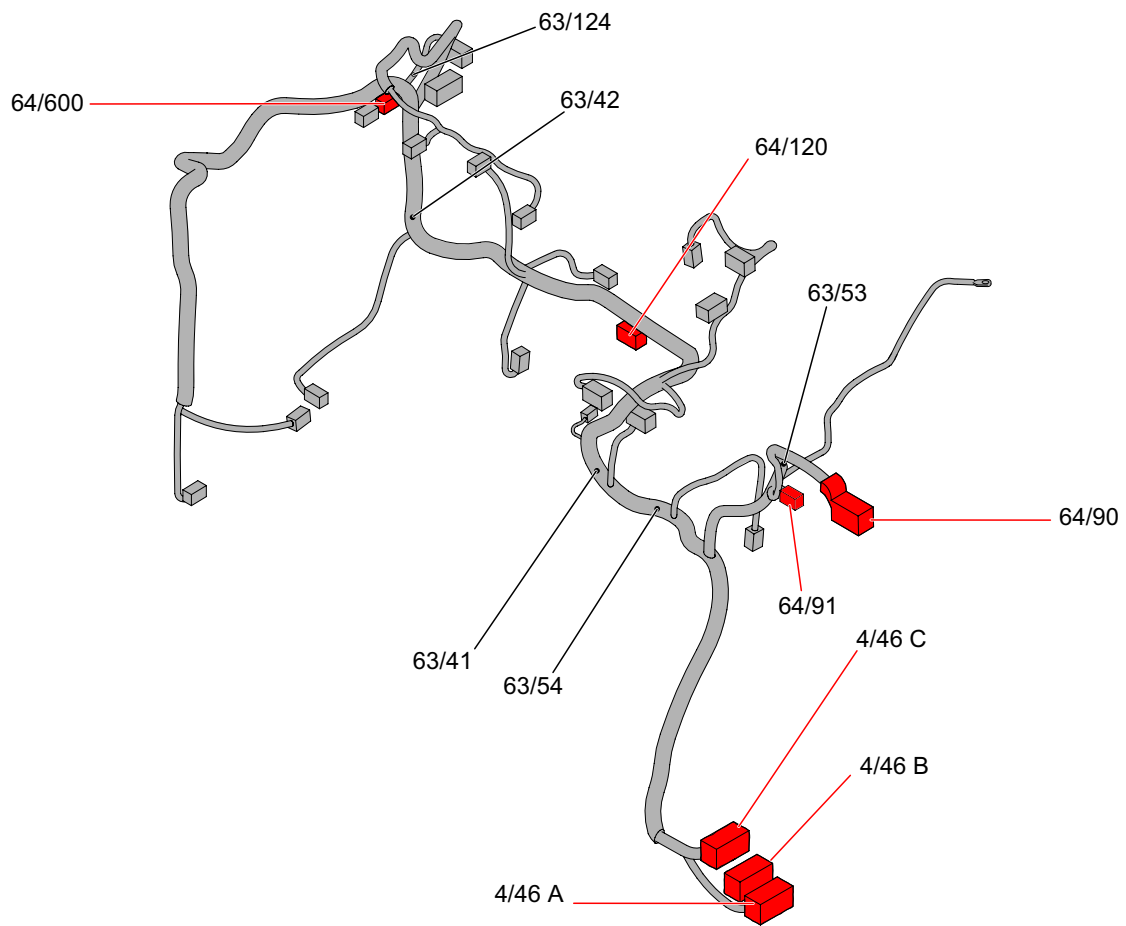
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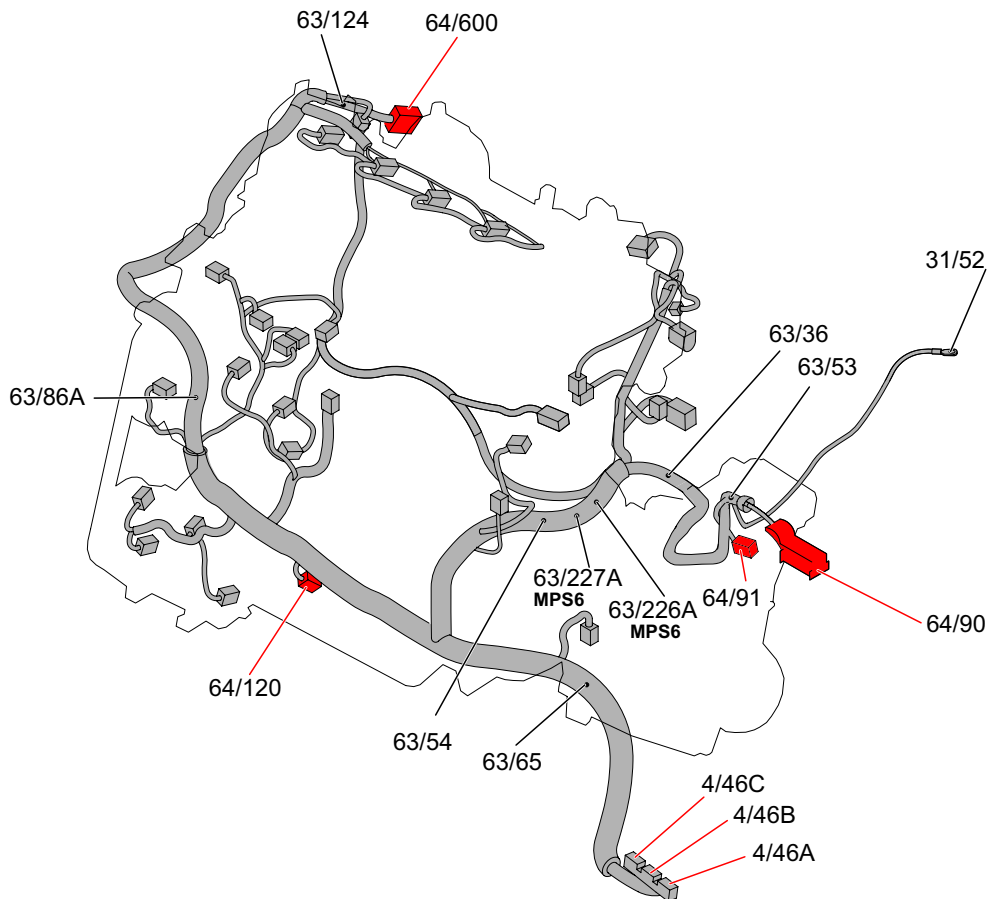
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Cable harness routing in vehicle Engine harness, Diesel 1.6l



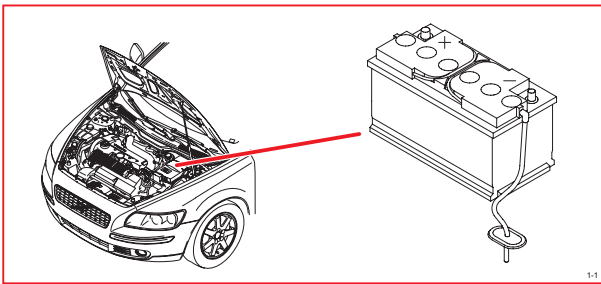
Cable harness routing in vehicle Engine harness, Diesel 2.0l



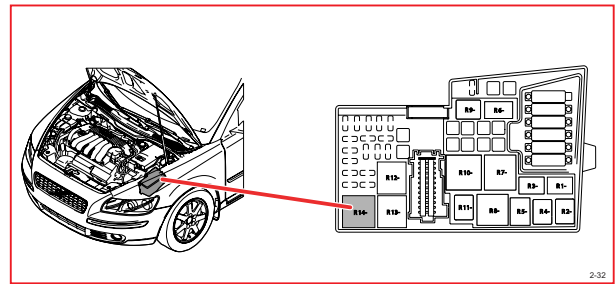
Component illustrations

1/1 - 2/89

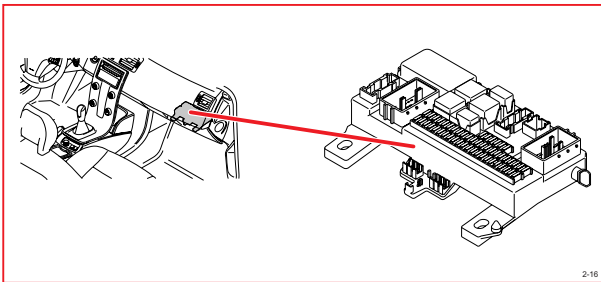
1/1 Battery



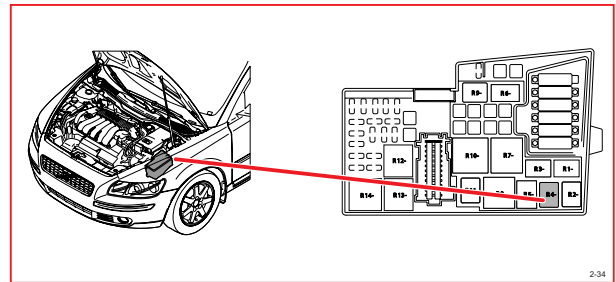
2/32 Main relay, engine management system



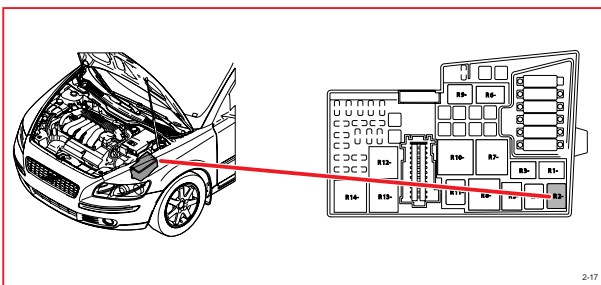
2/16 Relay, rear window wiper



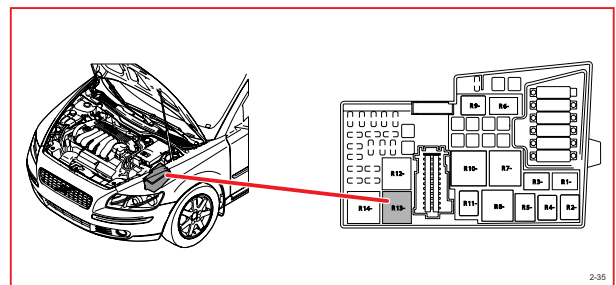
2/34 Relay, front fog lights



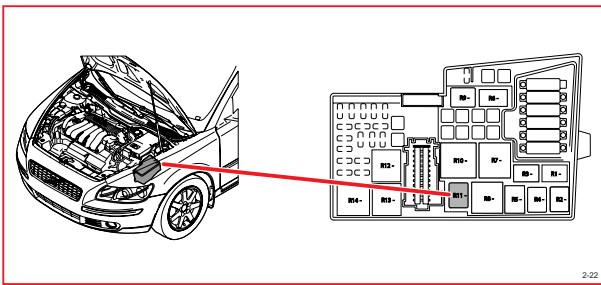
2/17 Relay, horn



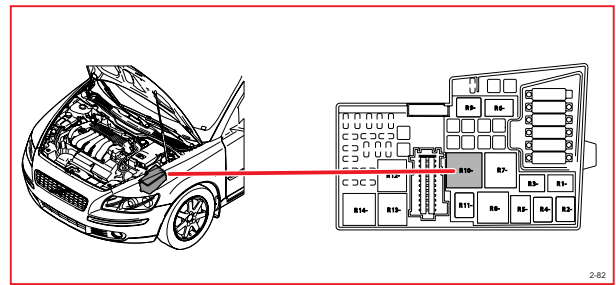
2/35 Relay, starter motor



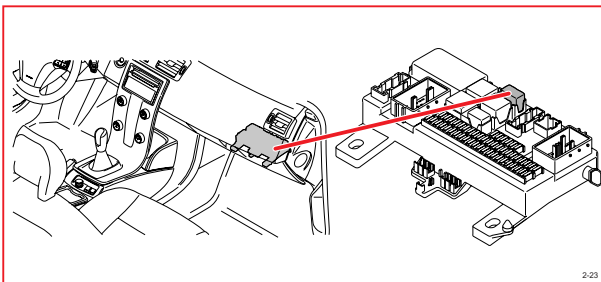
2/22 Relay, climate control system



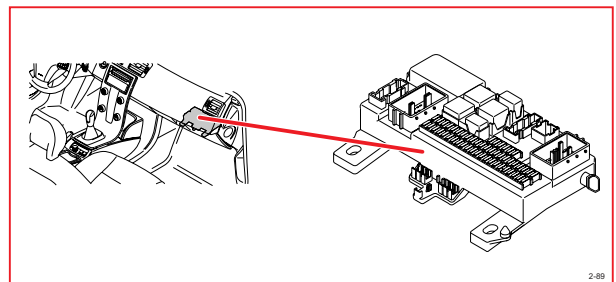
2/82 Relay, heated rear window



2/23 Relay, fuel pump



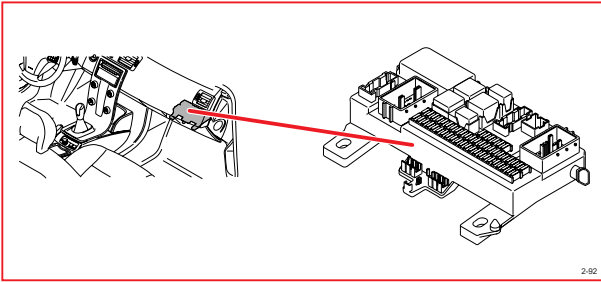
2/89 Relay, interior lighting



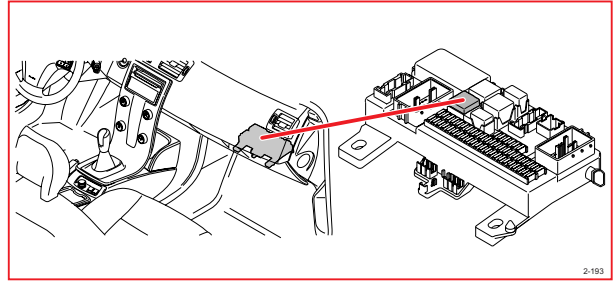
Component illustrations

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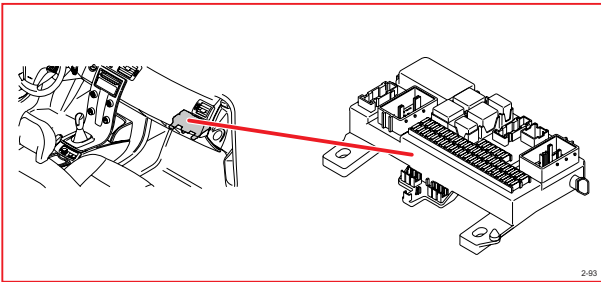
2/92 Relay, windshield washer motor



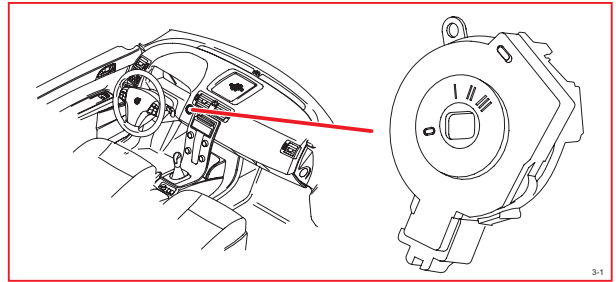
2/193 Relay, comfort functions



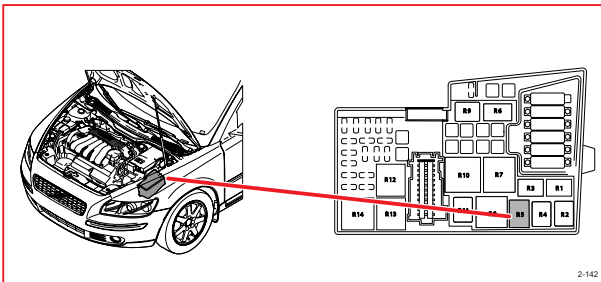
2/93 Relay, rear window washer motor



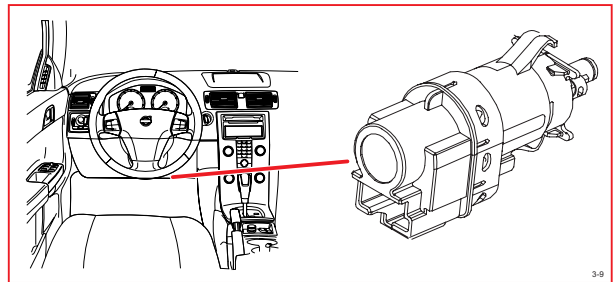
3/1 Ignition switch



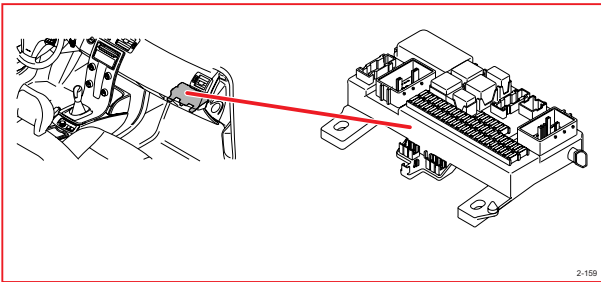
2/142 Fuel filter preheater relay



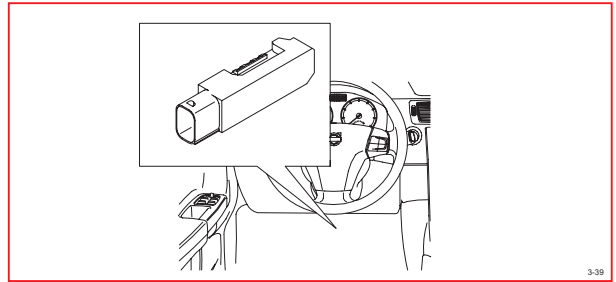
3/9 Contact brake light



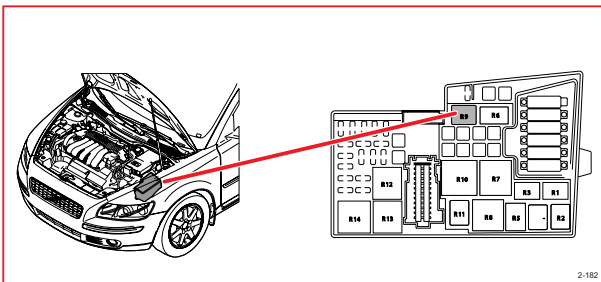
2/159 Relay, infotainment



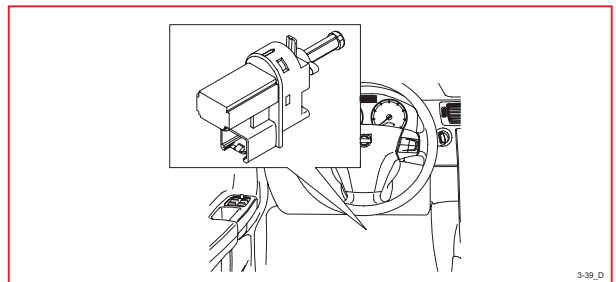
3/39 Clutch pedal contact



2/182 Relay, headlight washer motor



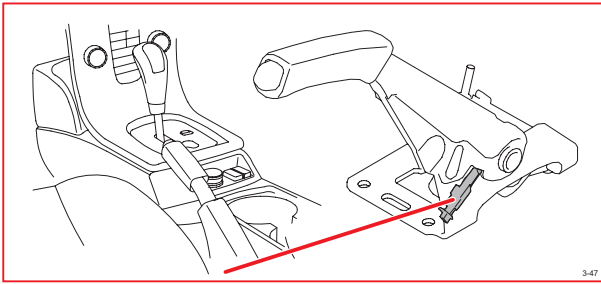
3/39 Clutch pedal contact, Diesel



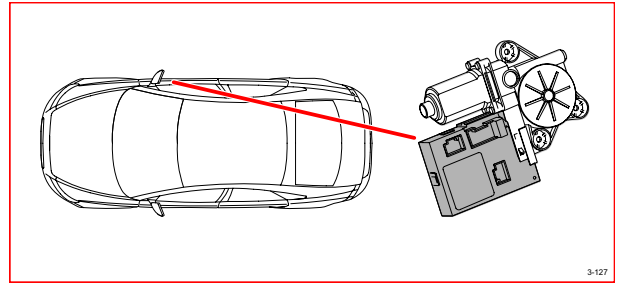
Component illustrations

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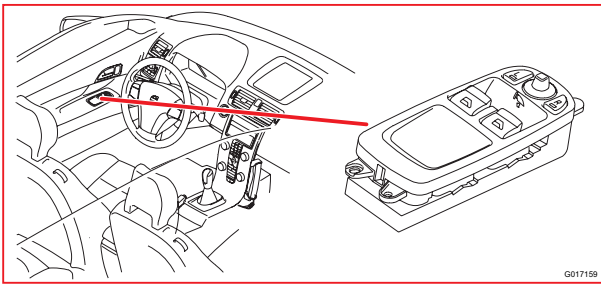
3/47 Parking brake contact



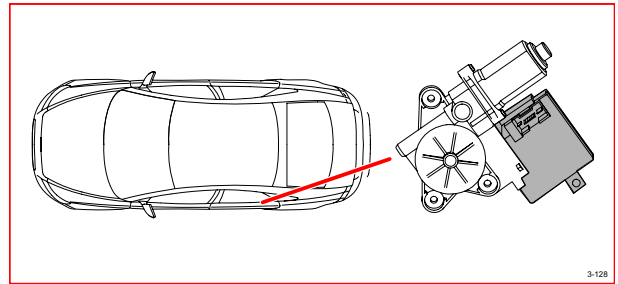
3/127 Passenger Door Module (PDM)



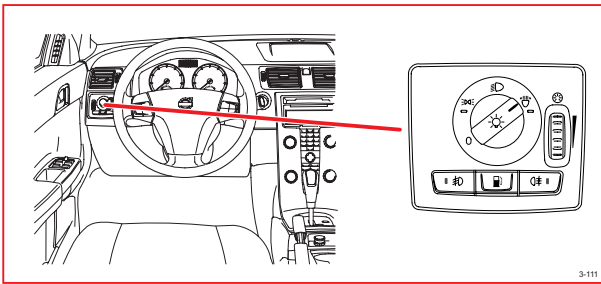
3/81 Power window switches, driver's door



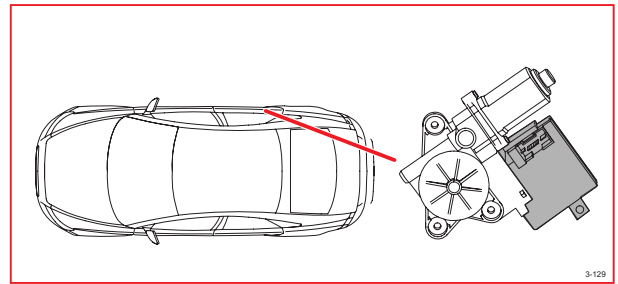
3/128 Rear left Door Module (LDM)



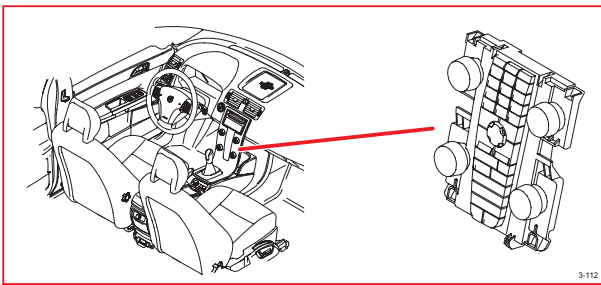
3/111 Switch unit, lights



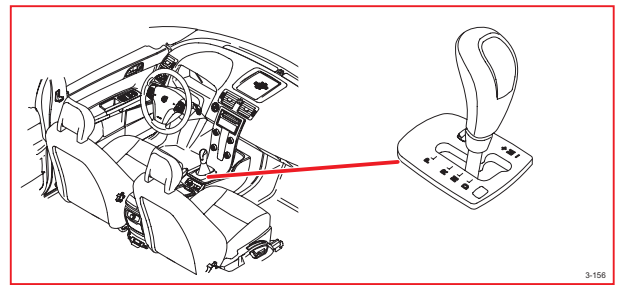
3/129 Rear Right Door Module (RDM)



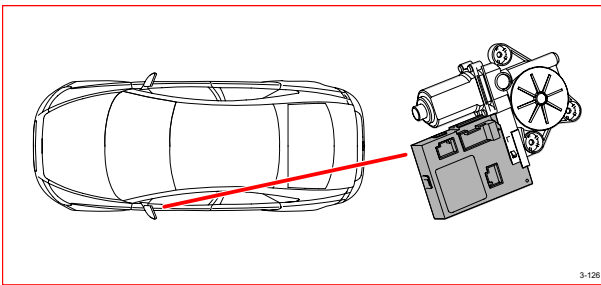
3/112 Climate Control Module (CCM)



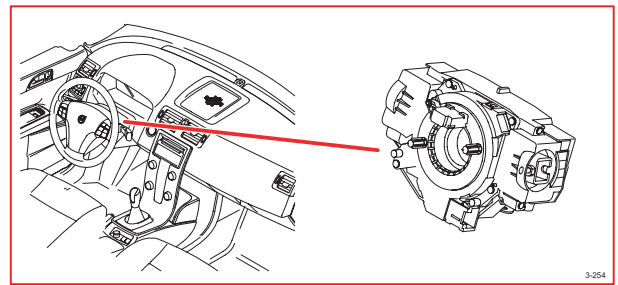
3/156 Gear Selector Module (GSM)



3/126 Driver Door Module (DDM)



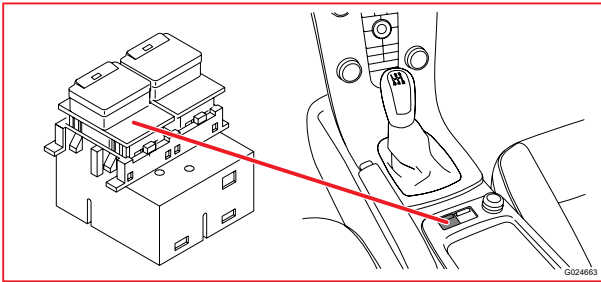
3/254 Steering Wheel Module (SWM)



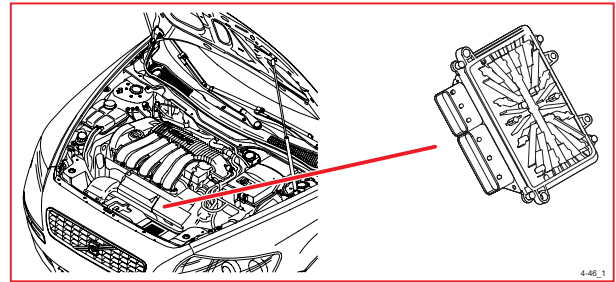
Component illustrations

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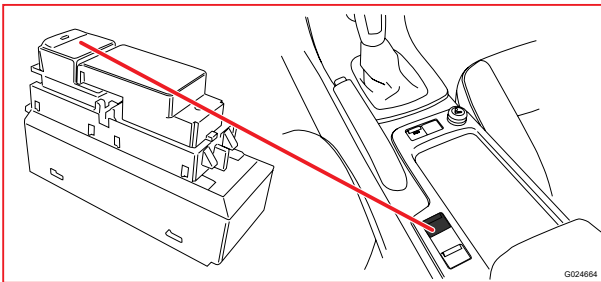
3/286 Blis switch, C30/S40/V50



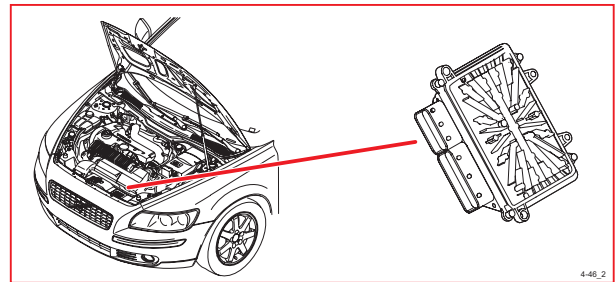
4/46.1 Engine Control Module (ECM), 5-cyl



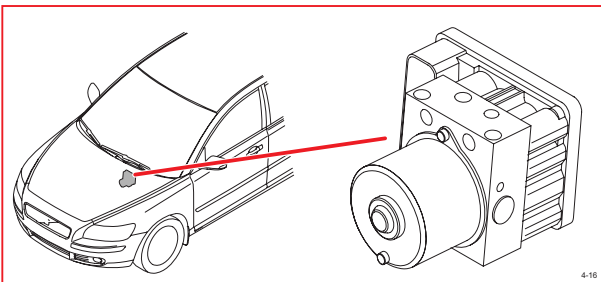
3/286 Blis switch, C70



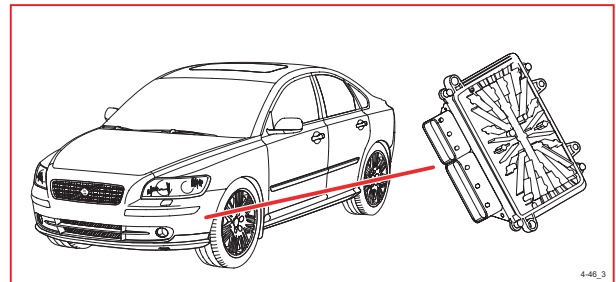
4/46.2 Engine Control Module (ECM), 5-cyl. Turbo



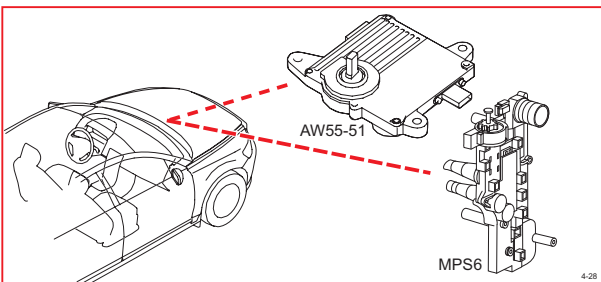
4/16 Brake Control Module (BCM)



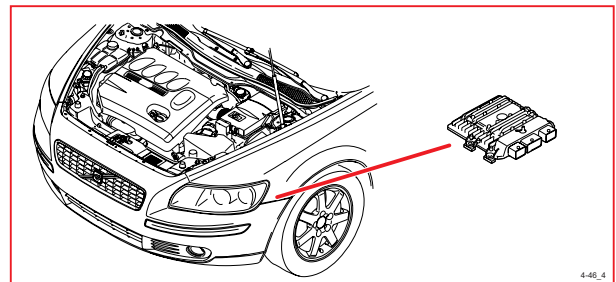
4/46.3 Engine Control Module (ECM), 5-cyl. 2.4I D



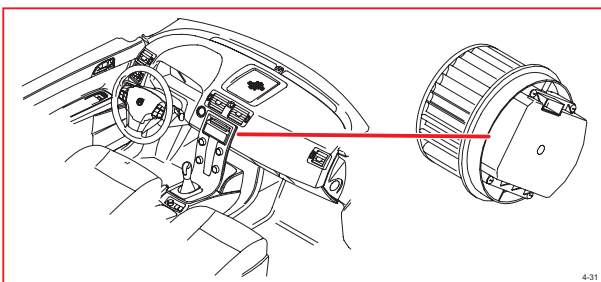
4/28 Transmission Control Module (TCM)



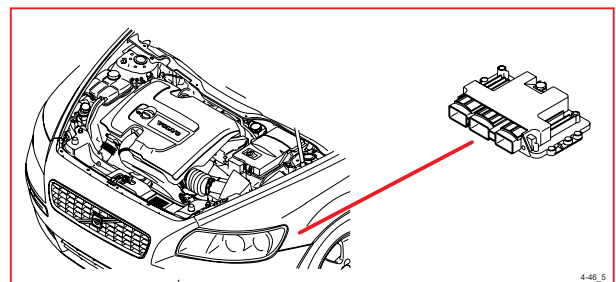
4/46.4 Engine Control Module (ECM), 4-cyl. 2.0I D



4/31 Fan control module



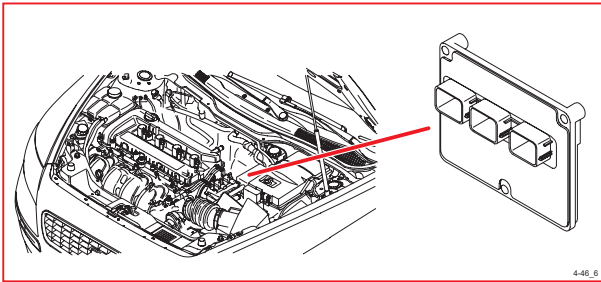
4/46.5 Engine Control Module (ECM), 4-cyl. 1.6I D



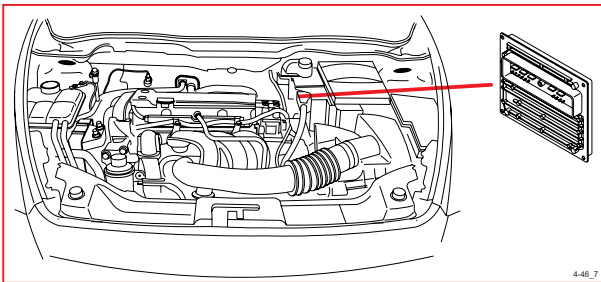
Component illustrations

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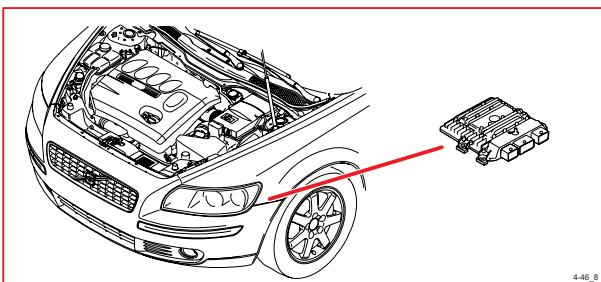
4/46.6 Engine Control Module (ECM), 4-cyl. 1.8l



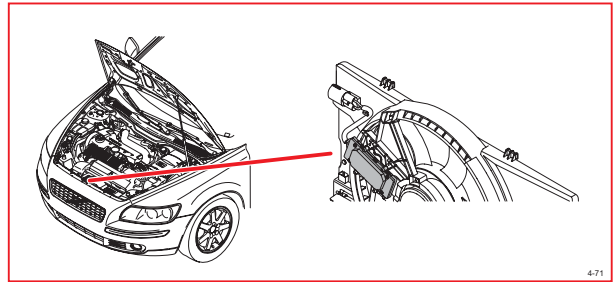
4/46.7 Engine Control Module (ECM), 4-cyl. 1.6l



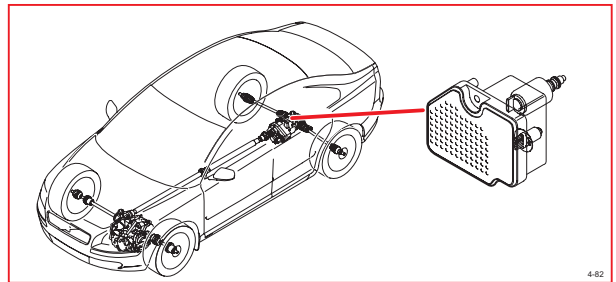
4/46.8 Engine Control Module (ECM), 4-cyl. 2.0l D



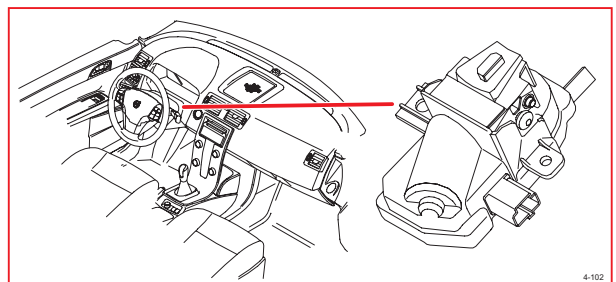
4/71 Cooling fan control module



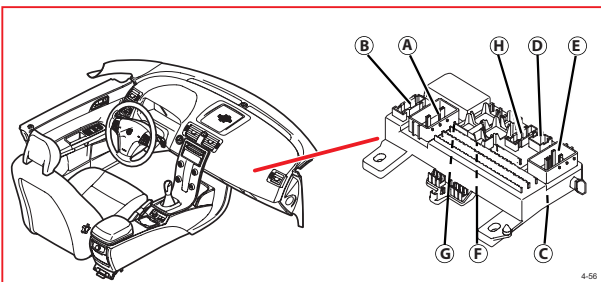
4/82 Differential Electronic Module (DEM)



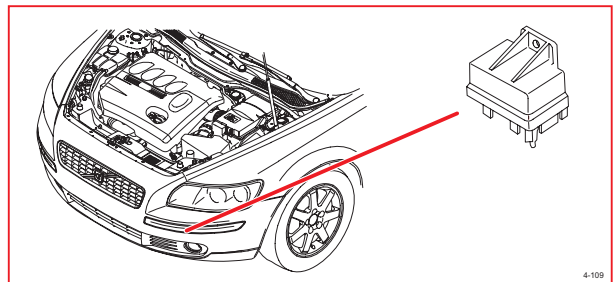
4/102 Steering Column Lock Module (SCL)



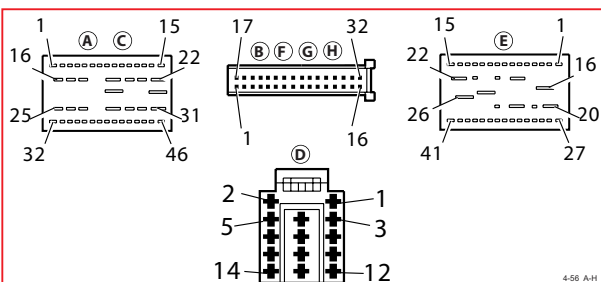
4/56 Central Electronic Module (CEM)



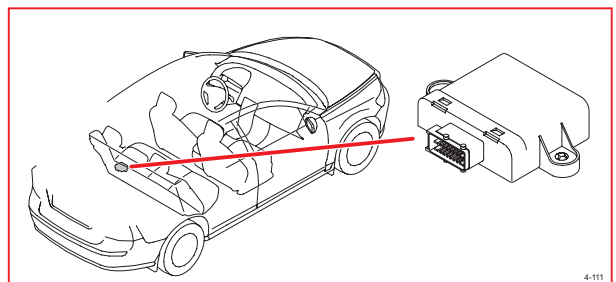
4/109 Glow plug control module



4/56 A-H Central Electronic Module (CEM)



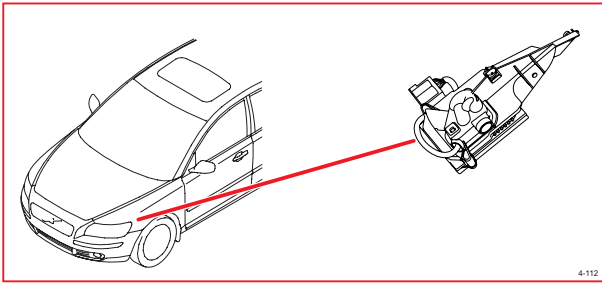
4/111 Additive Dosing Module (ADM)



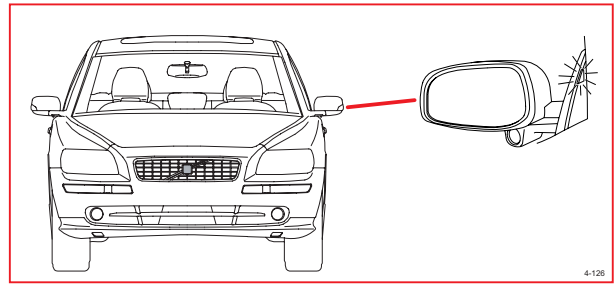
Component illustrations

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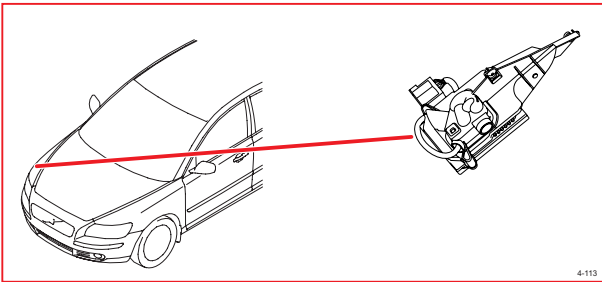
4/112 Control module, gas discharge lamp, master, left (GDL)



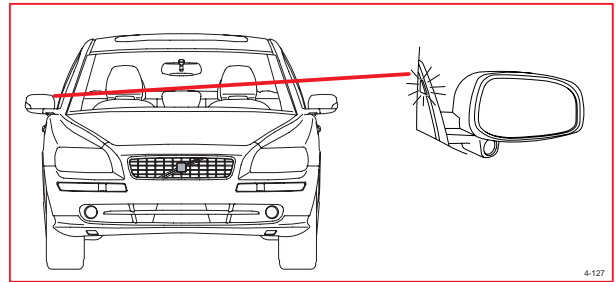
4/126 Left Camera Module (LCM)



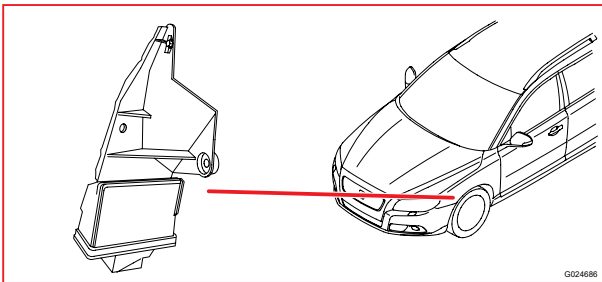
4/113 Control module, gas discharge lamp, slave, right (GDL)



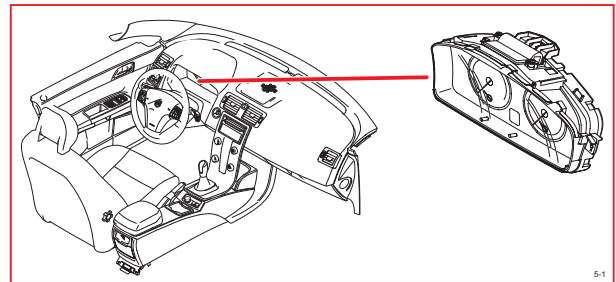
4/127 Right Camera Module (RCM)



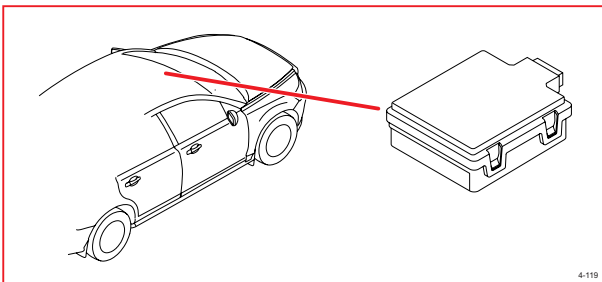
4/114 Headlamp Control Module (HCM)



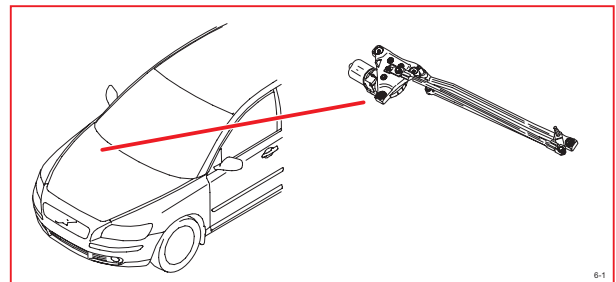
5/1 Driver Information Module (DIM)



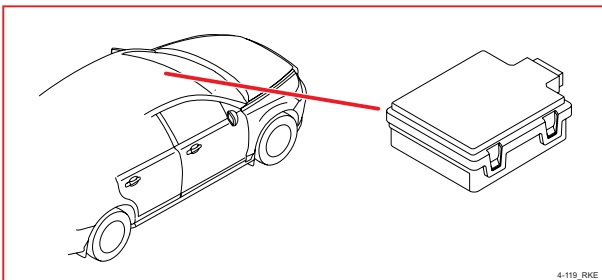
4/119 Remote Receiver Module (RRX)



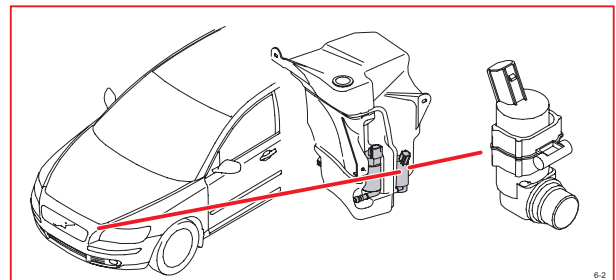
6/1 Wiper Motor Module (WMM)



4/119 Signal receiver, keyless vehicle (RKE)



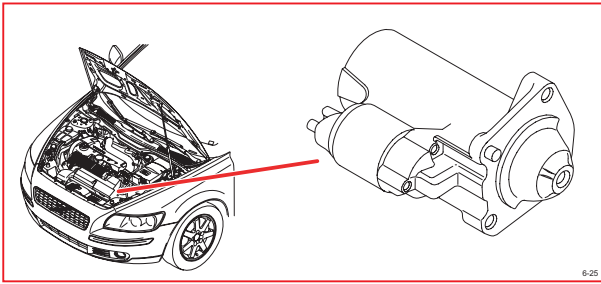
6/2 Washer pump



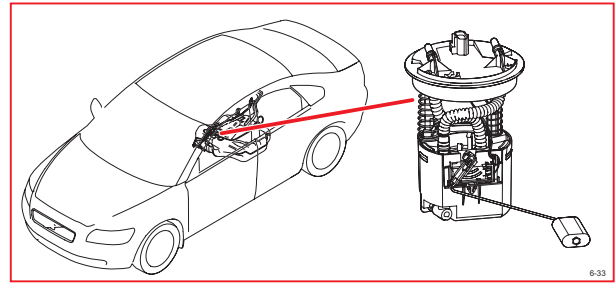
Component illustrations

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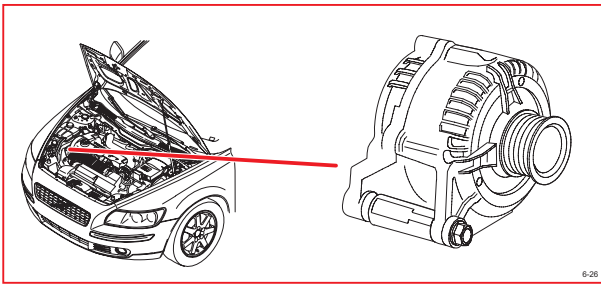
6/25 Starter motor



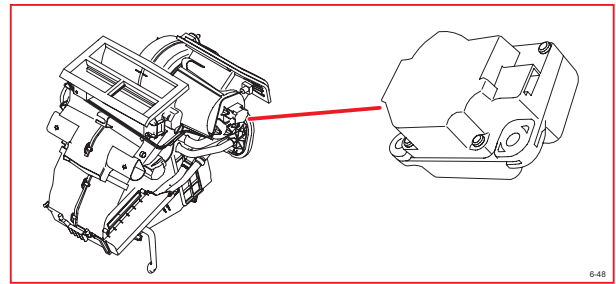
6/33 Fuel pump



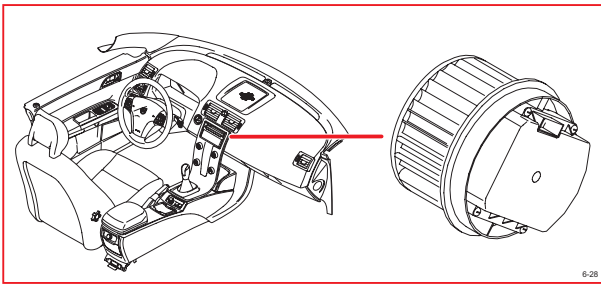
6/26 Alternator



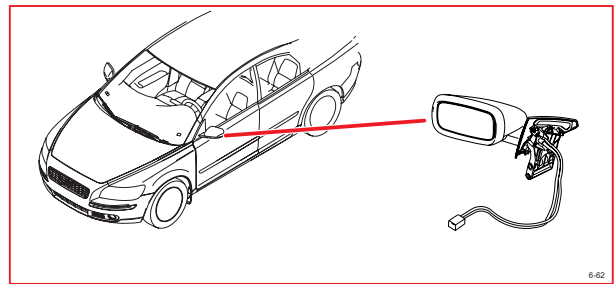
**6/48 Damper Motor Module (DMM),
recirculation**



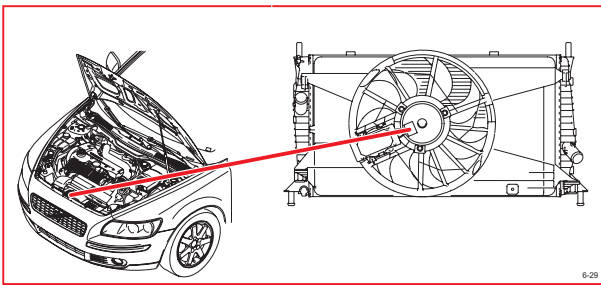
6/28 Motor, passenger compartment fan



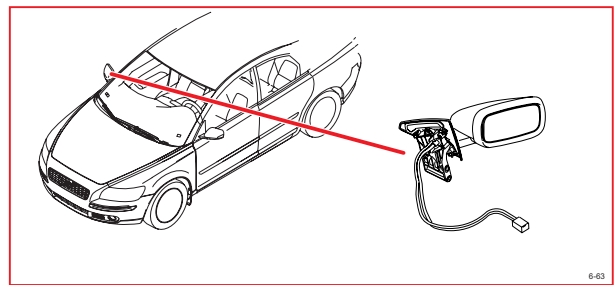
6/62 Power rear-view mirror driver's door



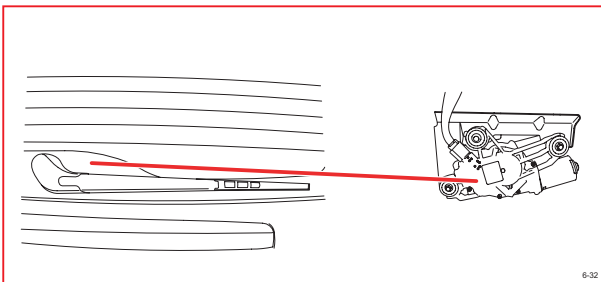
6/29 Motor, electric cooling fan



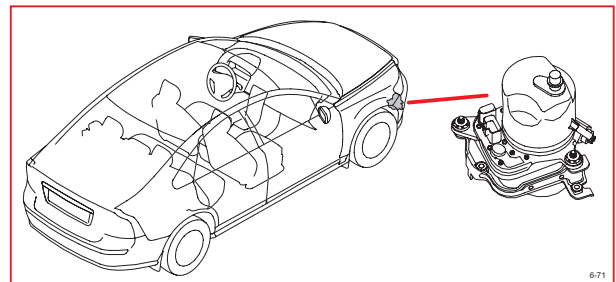
**6/63 Power passenger
door mirror**



6/32 Rear window wiper motor



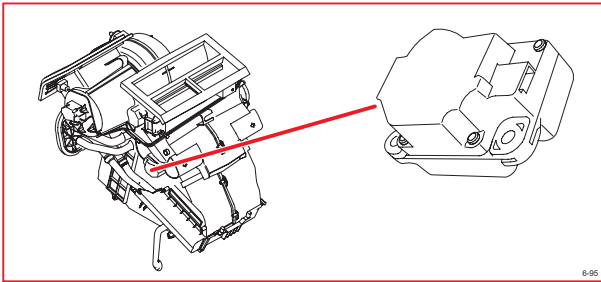
**6/71 Electrical Power Steering Module
(EPS)**



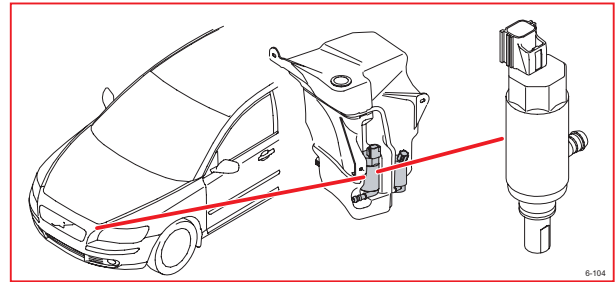
Component illustrations

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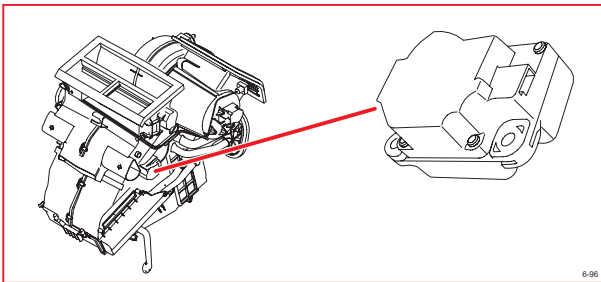
**6/95 Damper Motor Module (DMM),
temperature, left side**



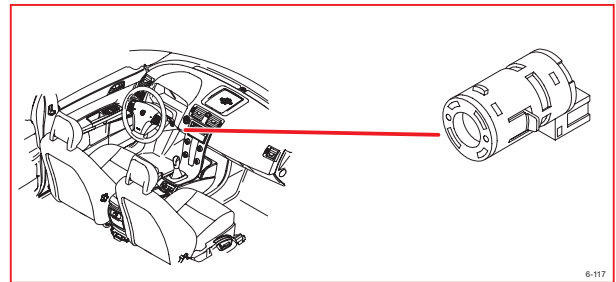
**6/104 High pressure headlight washer
motor**



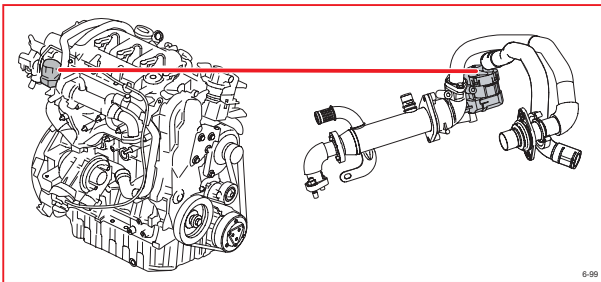
**6/96 Damper Motor Module (DMM),
temperature, right side**



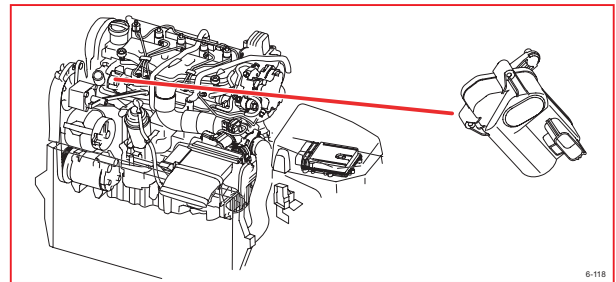
6/117 Interior temperature sensor



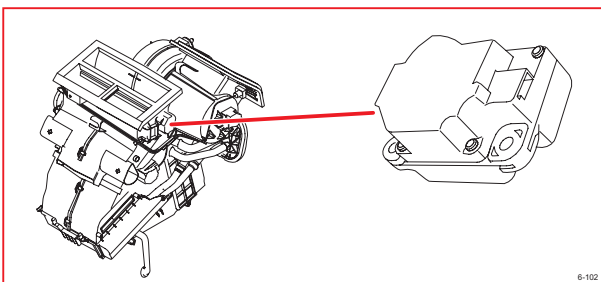
6/99 Engine EGR



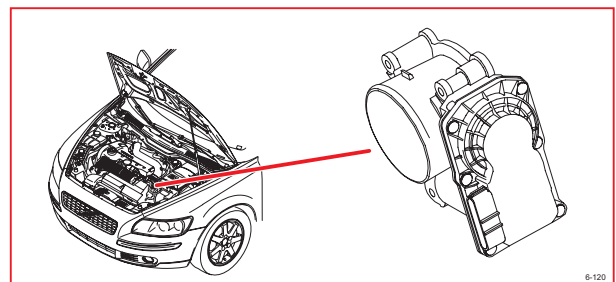
6/118 Regulator motor, swirl throttle



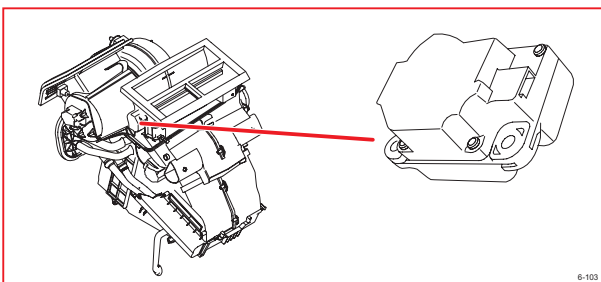
**6/102 Damper Motor Module (DMM),
defroster**



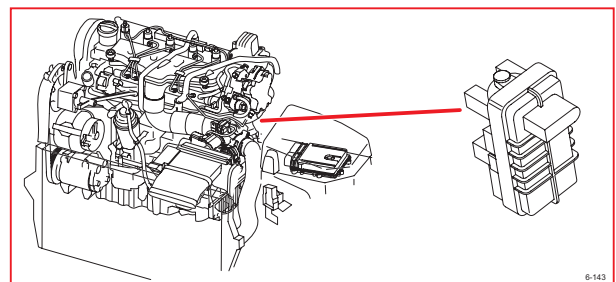
6/120 Engine throttle body



**6/103 Damper Motor Module (DMM),
floor/ventilation**



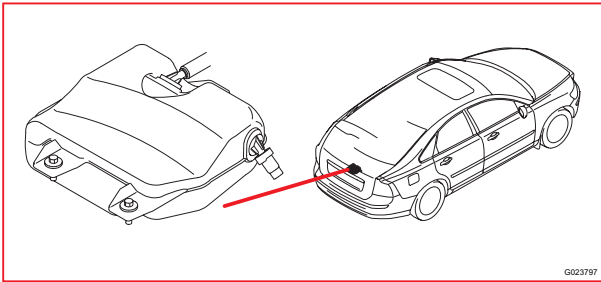
6/143 Regulator motor, Turbo



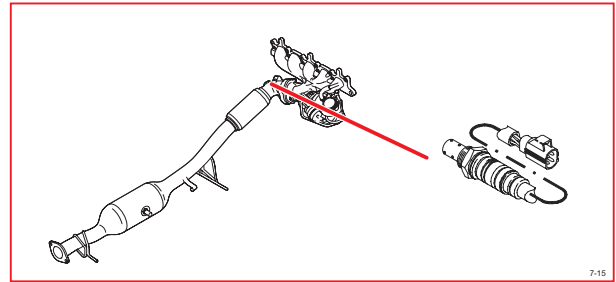
Component illustrations

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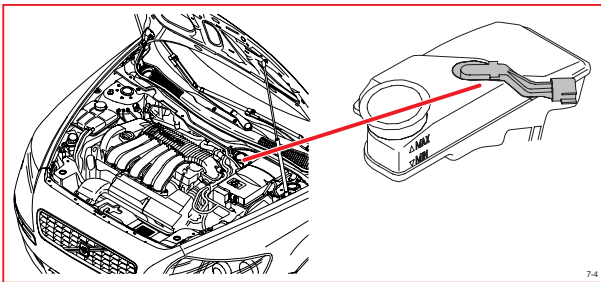
6/167 Additive tank with pump and level sensor



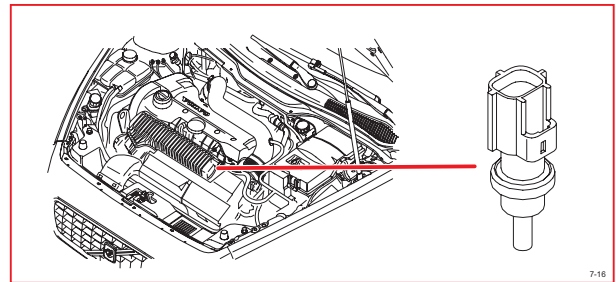
7/15 Heated oxygen sensor, front



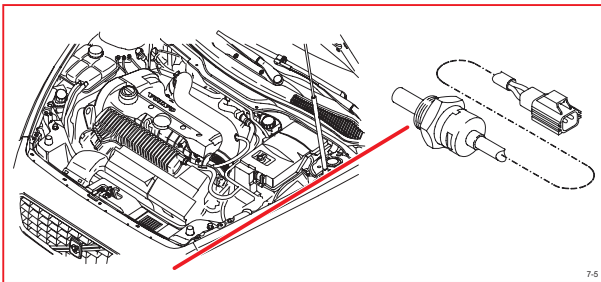
7/4 Brake fluid level sensor



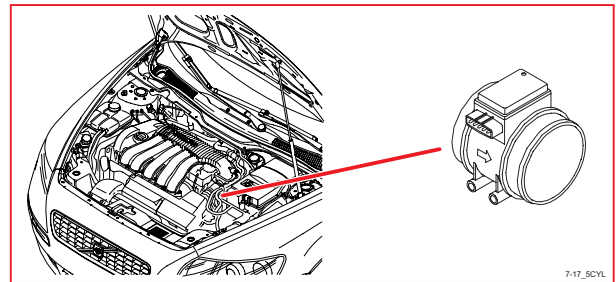
7/16 Sensor, coolant temperature



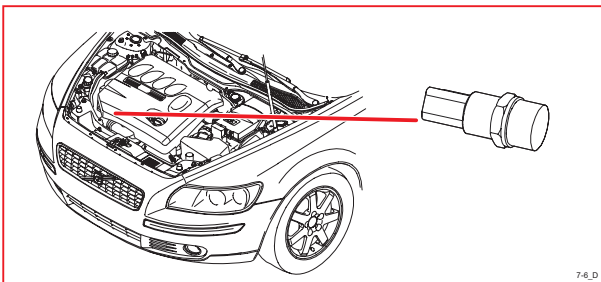
7/5 Washer fluid level sensor



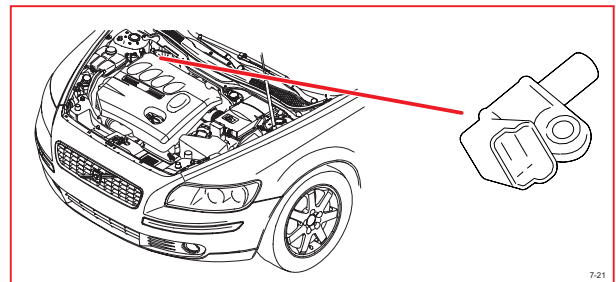
7/17 Mass airflow sensor (MAF)



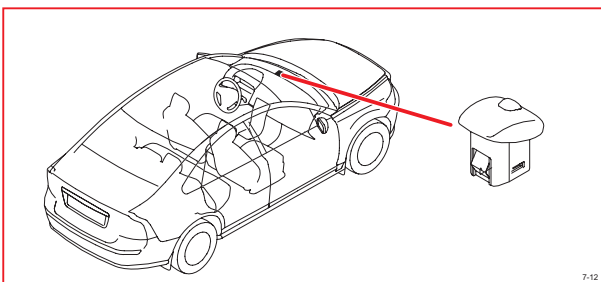
7/6 Oil pressure monitor, Diesel



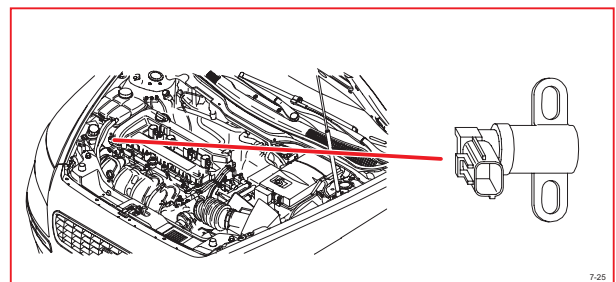
7/21 Camshaft position sensor



7/12 Solar sensor, twilight sensor and indicator alarm



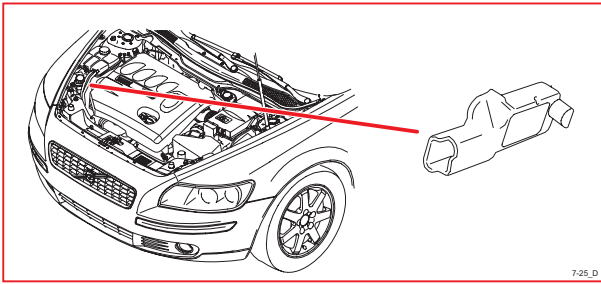
7/25 Impulse sensor, 4-cyl



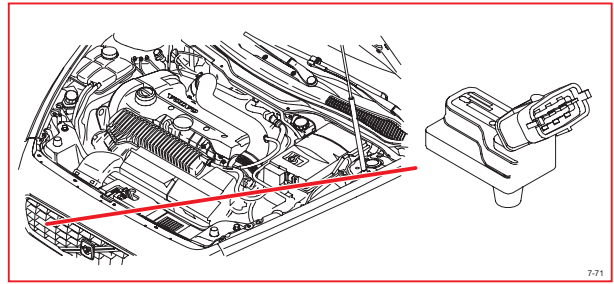
Component illustrations

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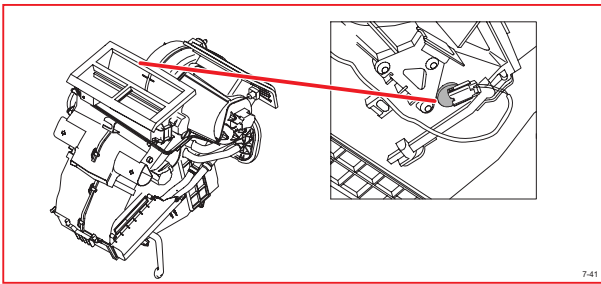
7/25 Impulse sensor, Diesel



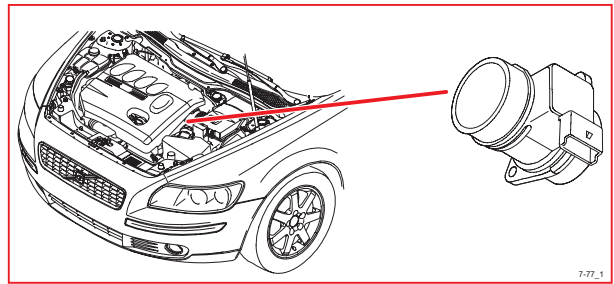
7/71 Sensor boost pressure



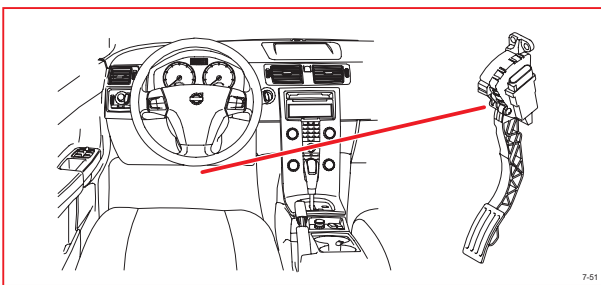
7/41 Temperature sensor evaporator



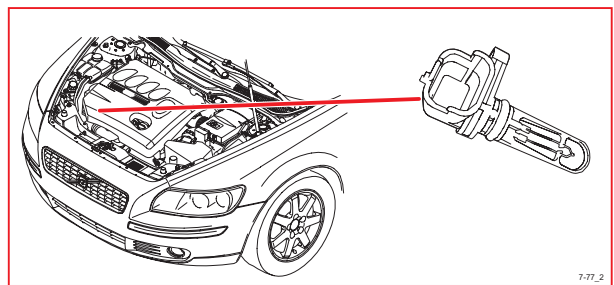
7/77 Temperature sensor, intake air 1



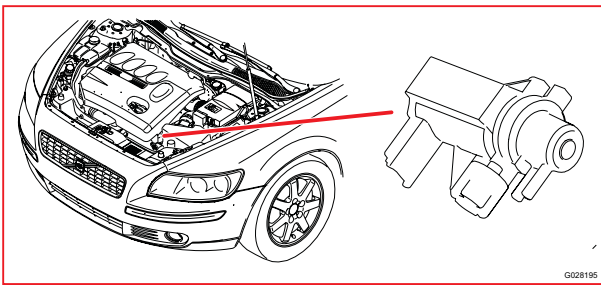
7/51 Accelerator pedal sensor



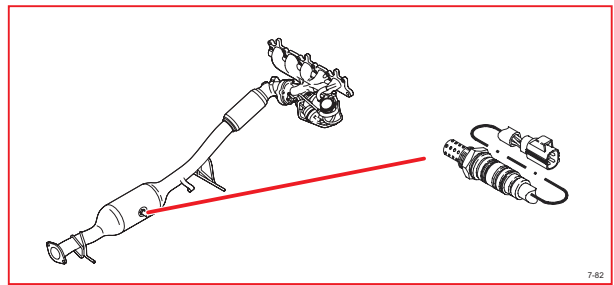
7/77 Temperature sensor, intake air 2



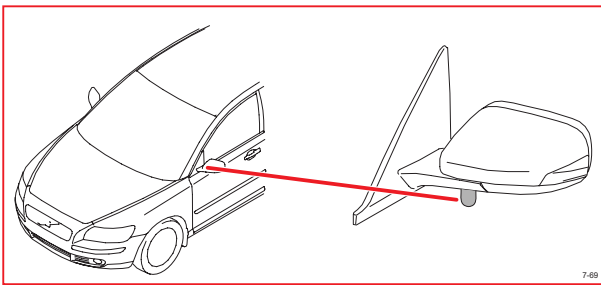
7/54 Intake throttle position sensor



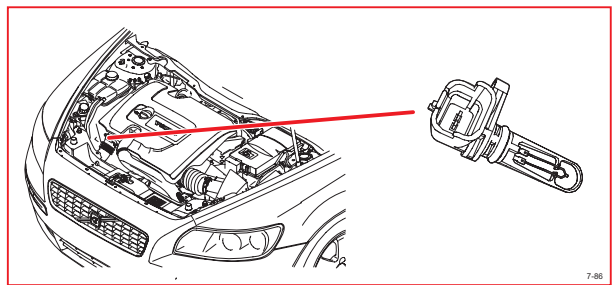
7/82 Heated oxygen sensor, rear



7/69 Sensor outdoor temperature



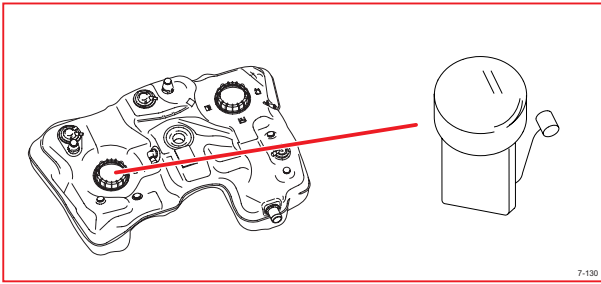
7/86 Intake air temperature sensor, Diesel



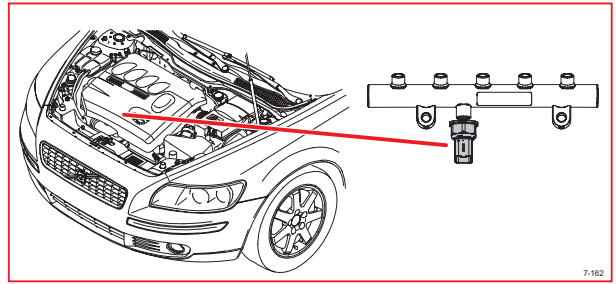
Component illustrations

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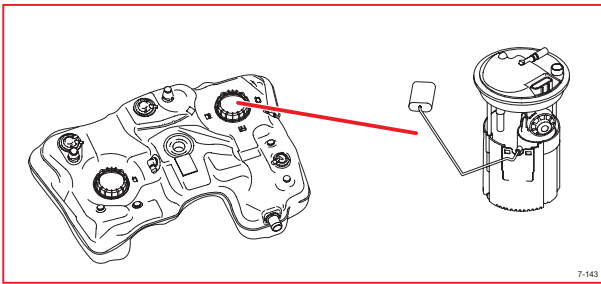
7/130 Fuel level sensor, ejector side



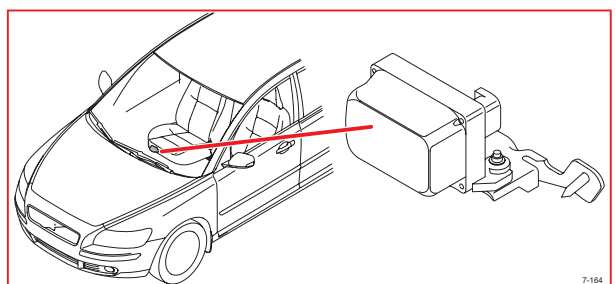
7/162 Pressure sensor, fuel line



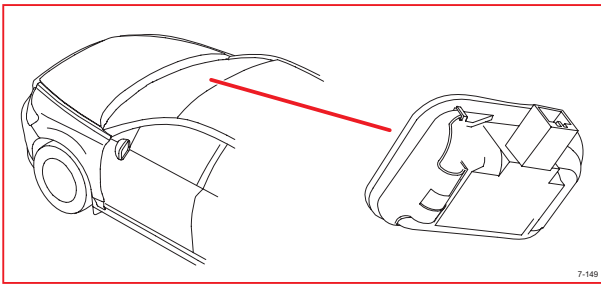
7/143 Sensor fuel level, pump side



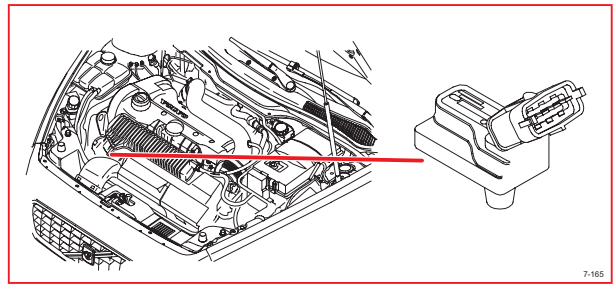
7/164 Body Sensor Cluster Stability Sensor (BSC)



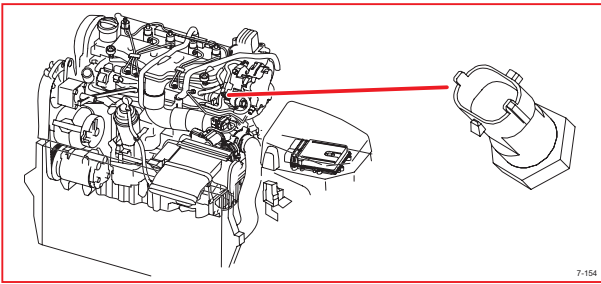
7/149 Rain Sensor Module (RSM)



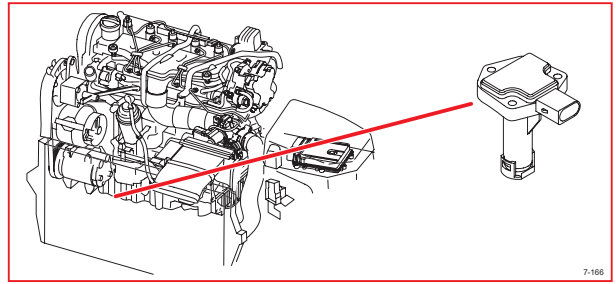
7/165 Pressure and temperature sensor, intake manifold



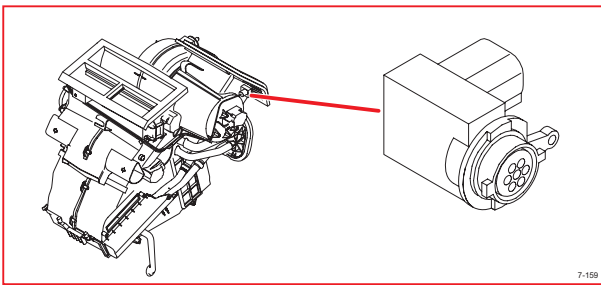
7/154 Sensor fuel temperature



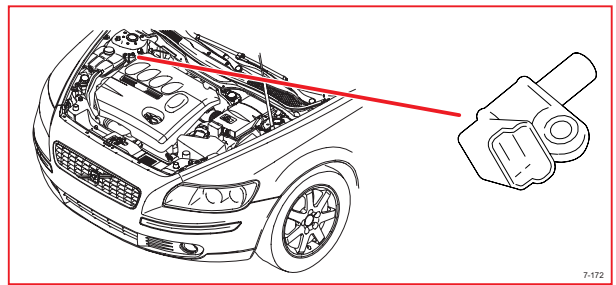
7/166 Oil level sensor



7/159 Air Quality Sensor (AQS)



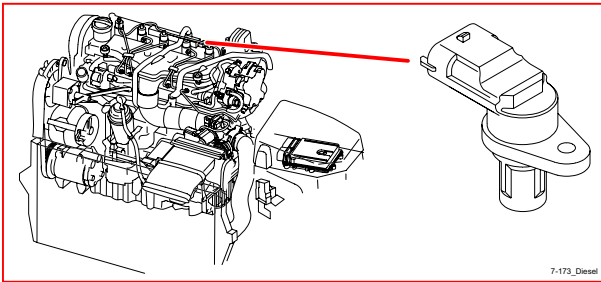
7/172 Position sensor camshaft, intake side, 4-cyl Diesel



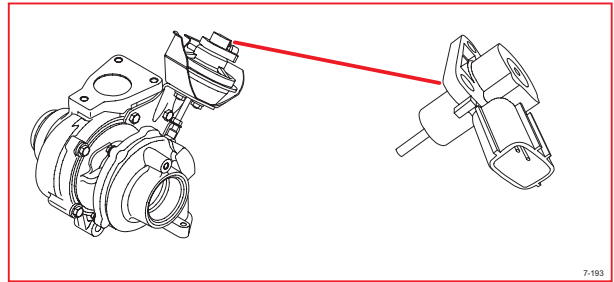
Component illustrations

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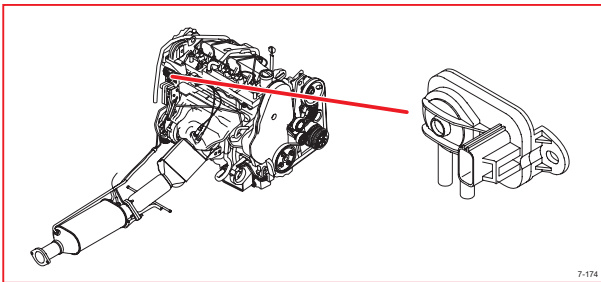
7/173 Position sensor camshaft, outlet side, 5-cyl Diesel



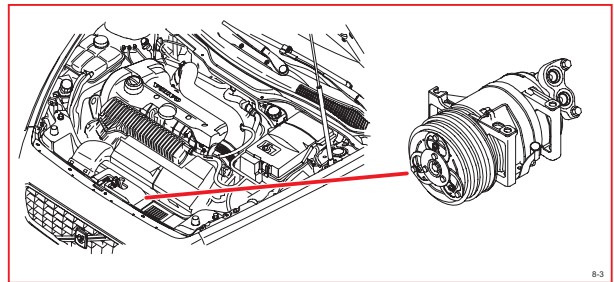
7/193 Position sensor turbo



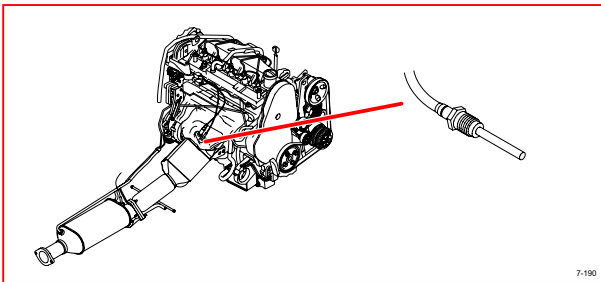
7/174 Differential pressure sensor, particle filter



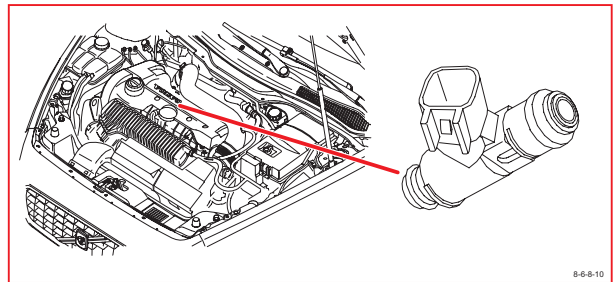
8/3 Electromagnetic clutch, climate control system



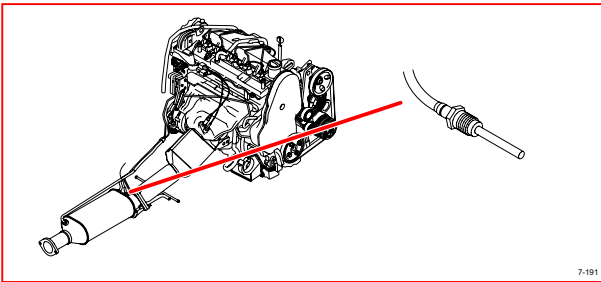
7/190 Temperature sensor, catalytic converter



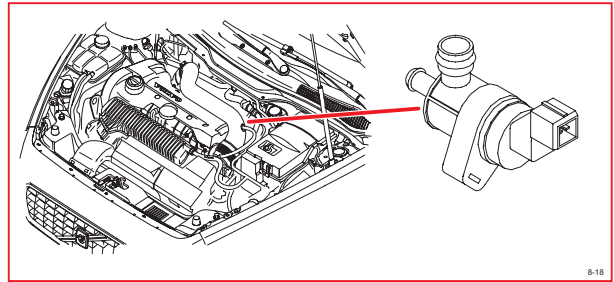
8/6-10 Injection valves



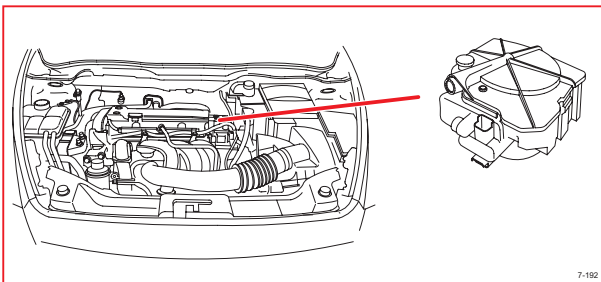
7/191 Temperature sensor, particle filter



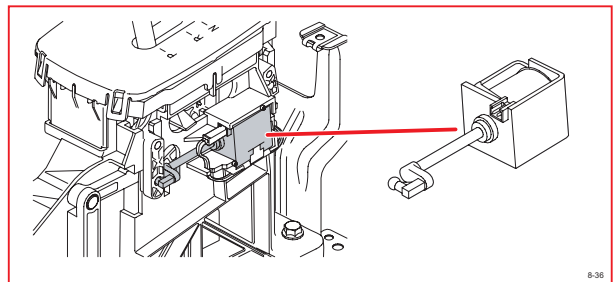
8/18 EVAP valve



7/192 Water detection sensor



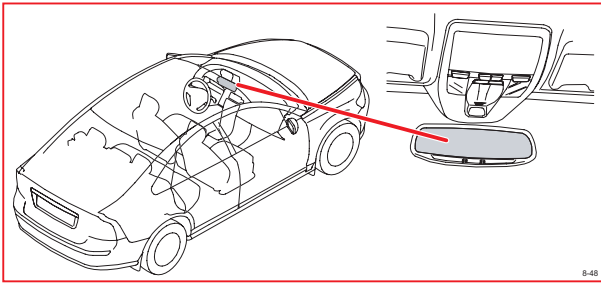
8/36 Solenoid shift lock



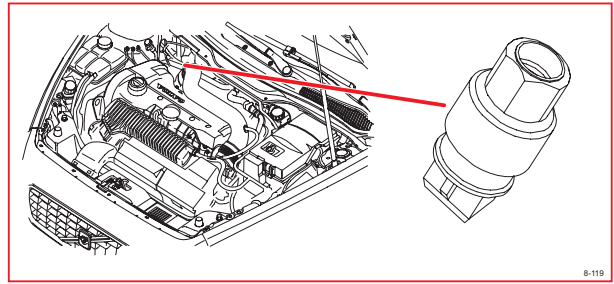
Component illustrations

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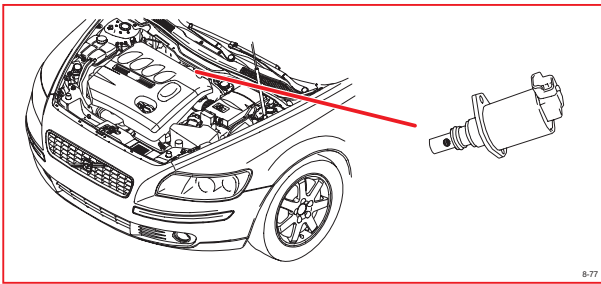
8/48 Auto-dimming rearview mirror



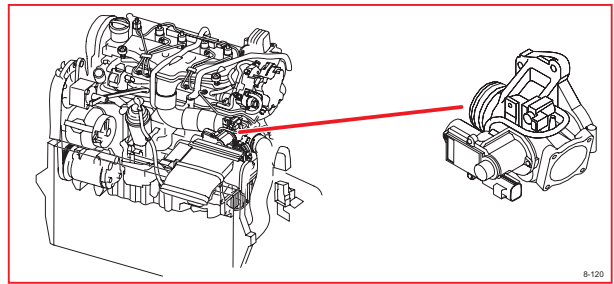
8/119 Pressure monitor, climate control system



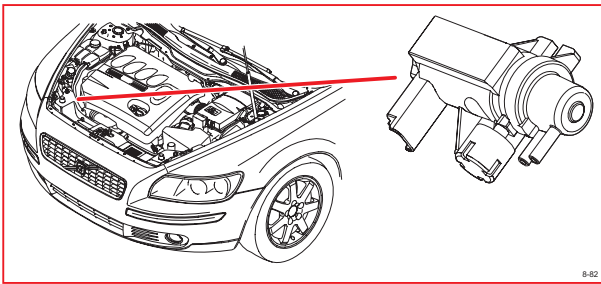
8/77 Control valve, fuel volume



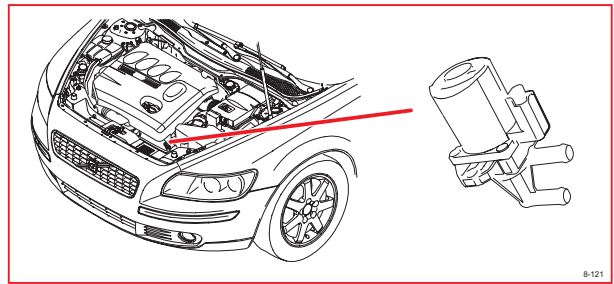
8/120 EGR valve



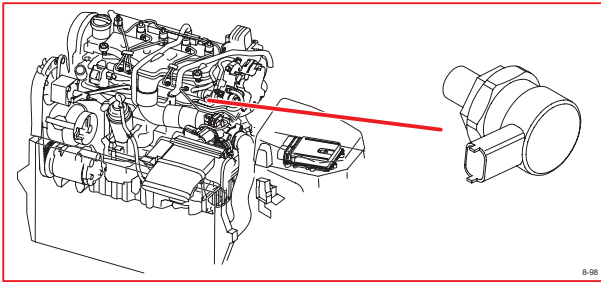
8/82 Solenoid, variable turbo geometry



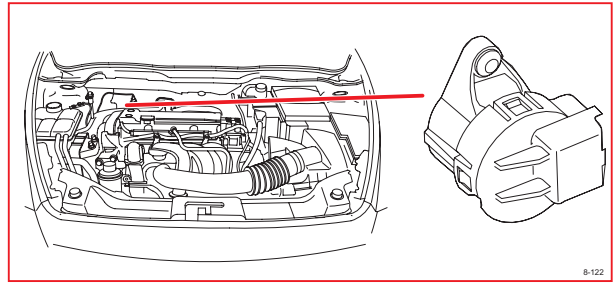
8/121 Valve coolant



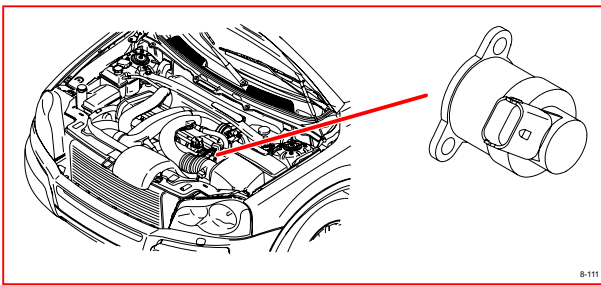
8/98 Control valve fuel pressure



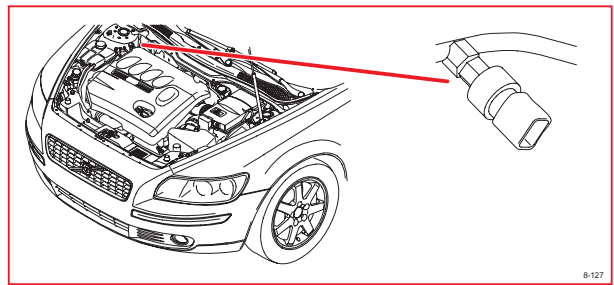
8/122 Bypass valve, intercooler



8/111 Control valve fuel flow



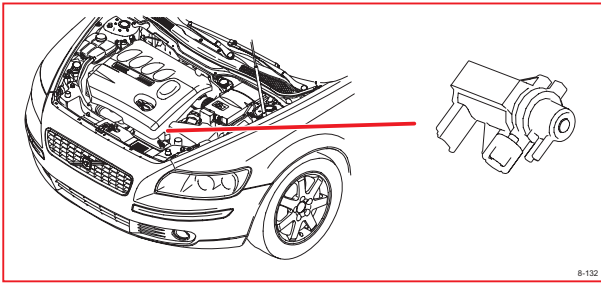
8/127 Pressure switch, climate control system



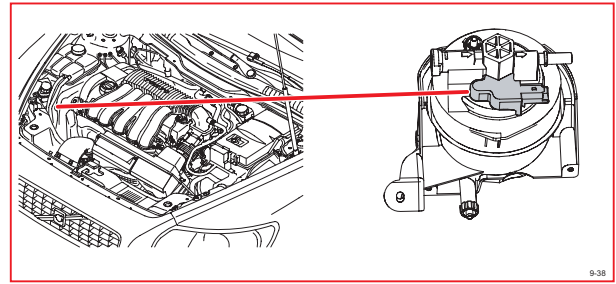
Component illustrations

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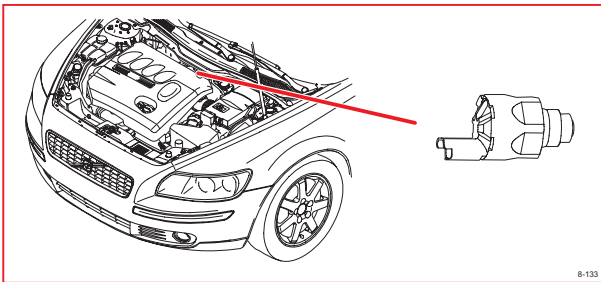
8/132 Control valve inlet



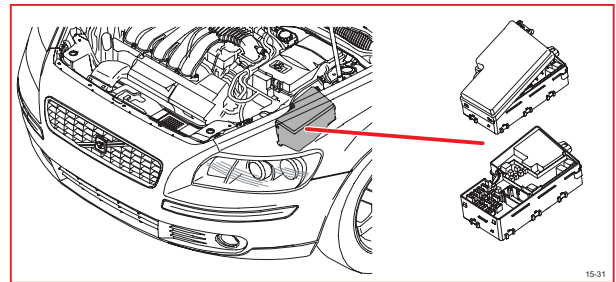
9/38 Electrically heated fuel filter



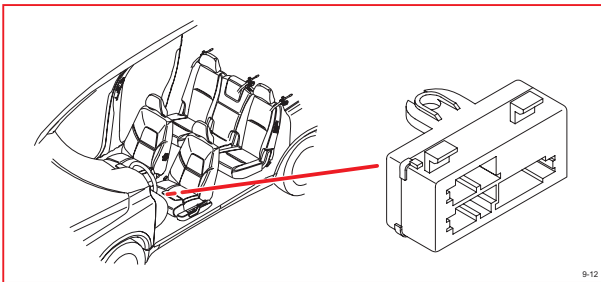
8/133 Control valve fuel pressure



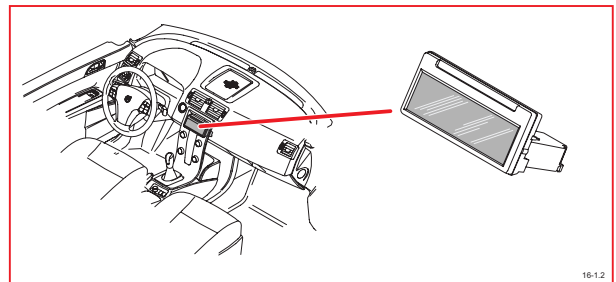
15/31 Distribution box in engine compartment



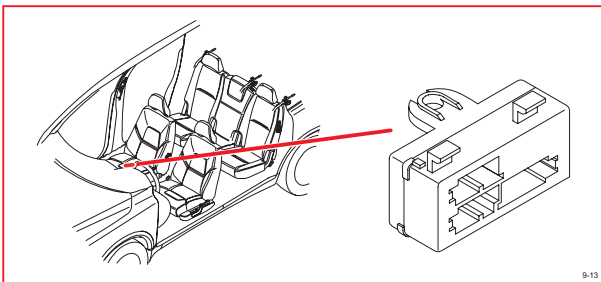
9/12 Seat Heating Module (SHM), driver's side



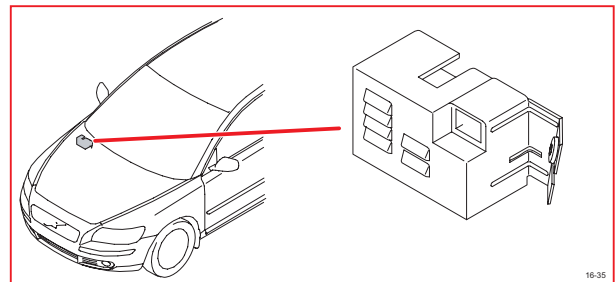
16/1.2 Infotainment Control Module (ICM)



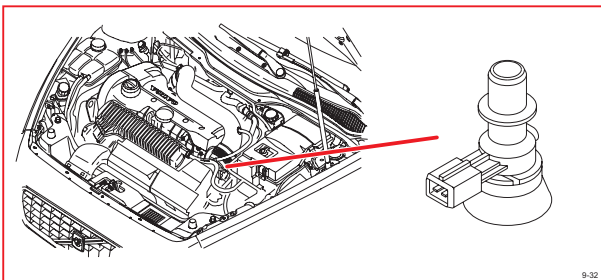
9/13 Seat Heating Module (SHM), passenger side



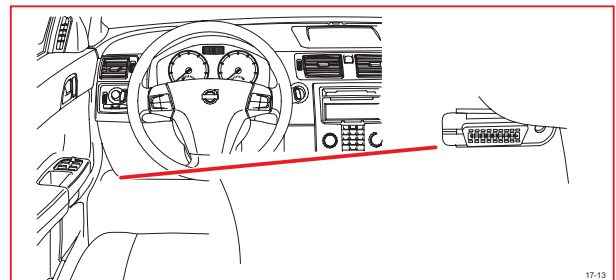
16/35 Siren Control Module (SCM)



9/32 PTC resistor, crankcase ventilation



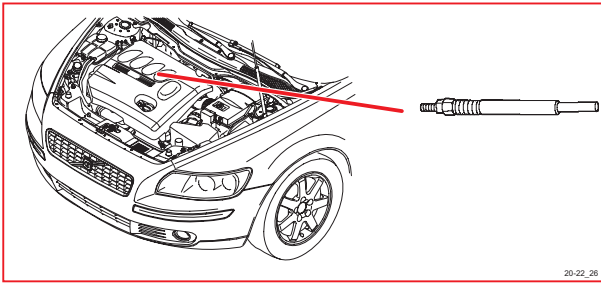
17/13 Data link connector



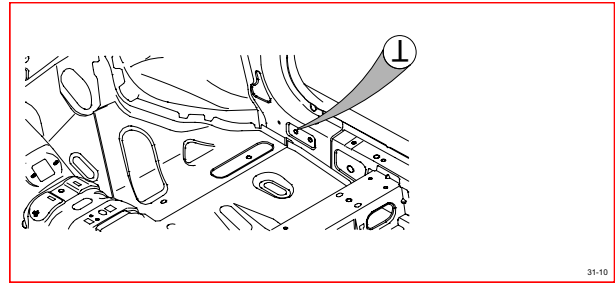
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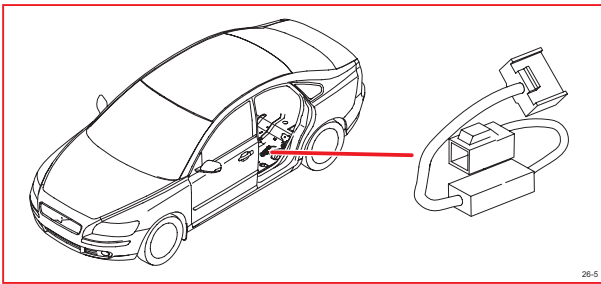
20/22-26 Glow plug



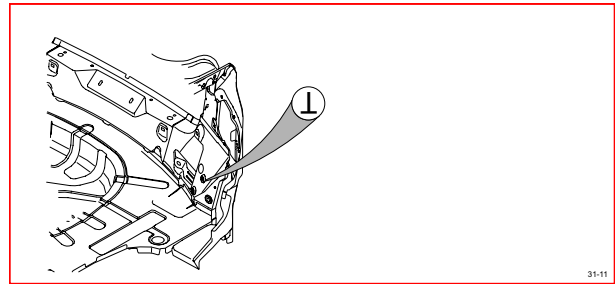
31/10 Ground connection, A-post, passenger side



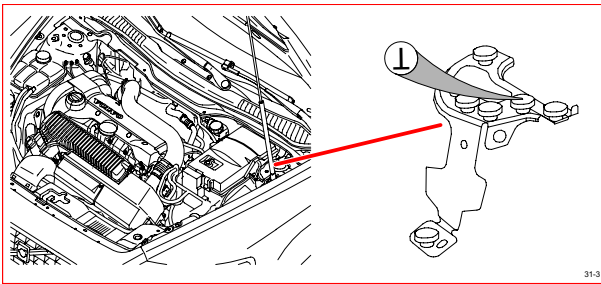
26/5 DC/AC converter, fuel tank



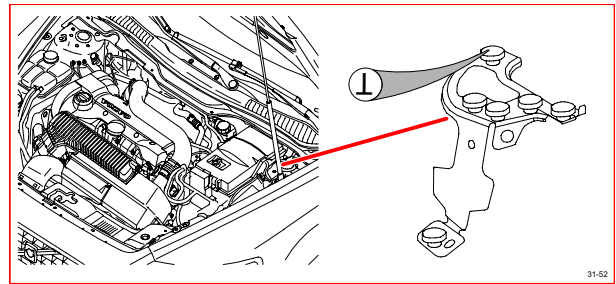
31/11 Ground connection, rear left side



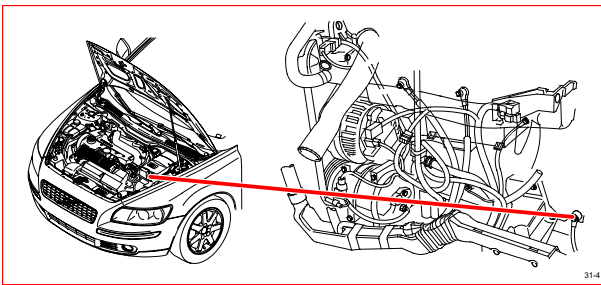
31/3 Ground connection, left MacPherson strut tower



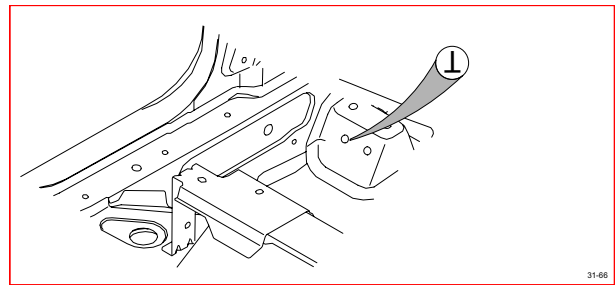
31/52 Ground connection, left MacPherson strut tower



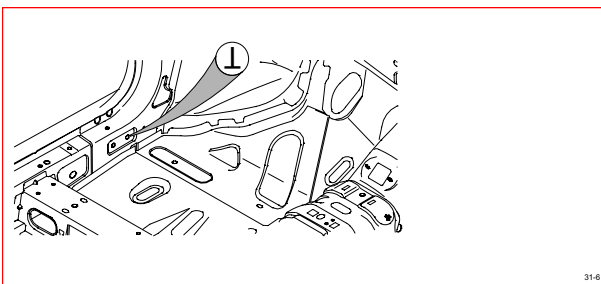
31/4 Ground connection, engine



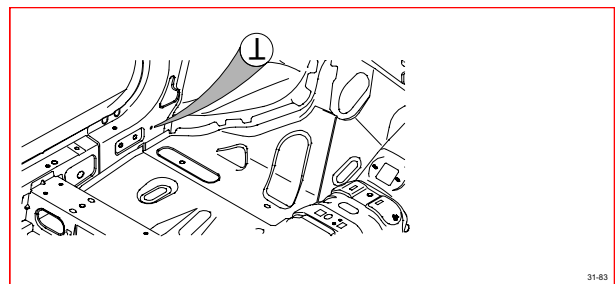
31/66 Ground connection, front left seat riser



31/6 Ground connection, A-post, driver's side



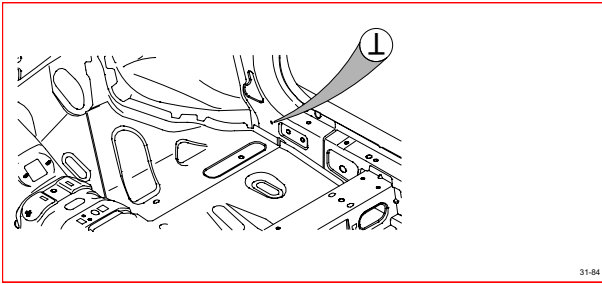
31/83 Ground connection, A-post, driver's side



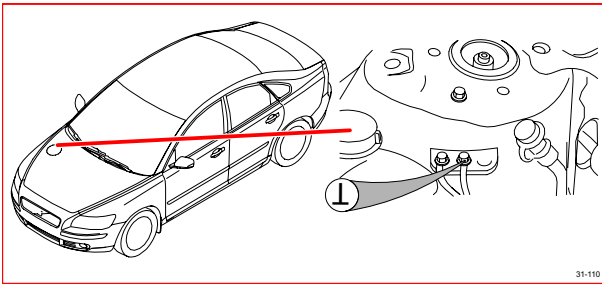
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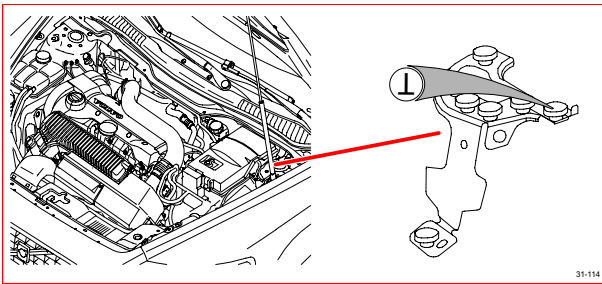
31/84 Ground connection, A-post, passenger side



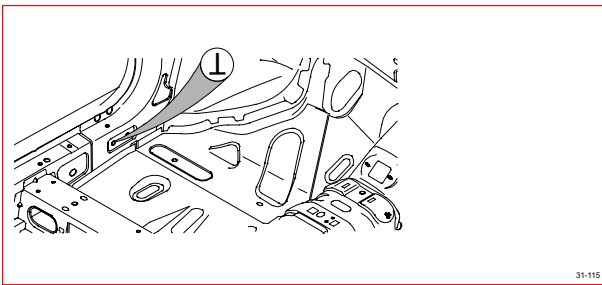
31/110 Ground connection, right MacPherson strut tower



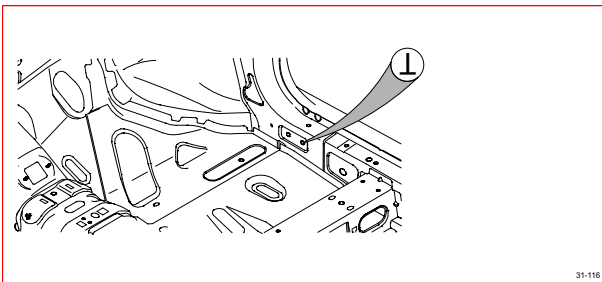
31/114 Ground connection, left MacPherson strut tower



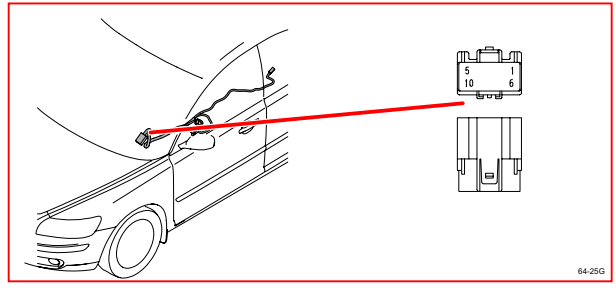
31/115 Ground connection, left A-post



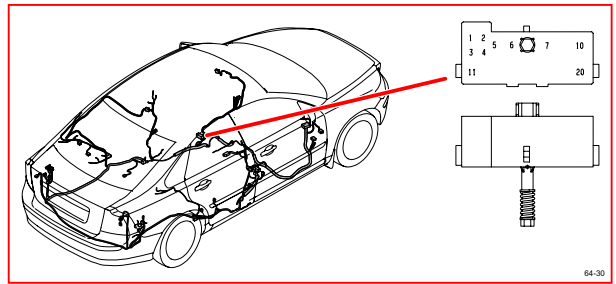
31/116 Ground connection, right A-post



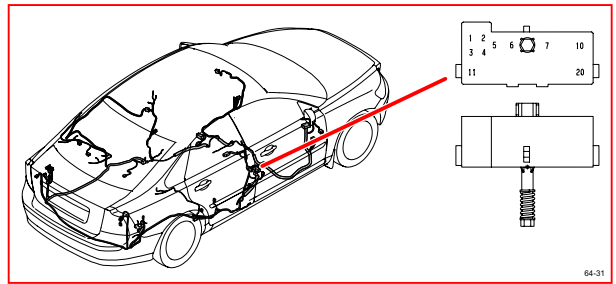
64/25G Connector



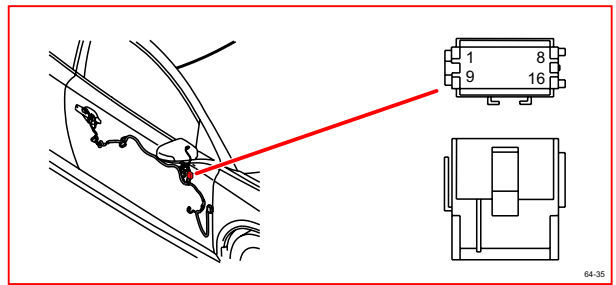
64/30 Connector



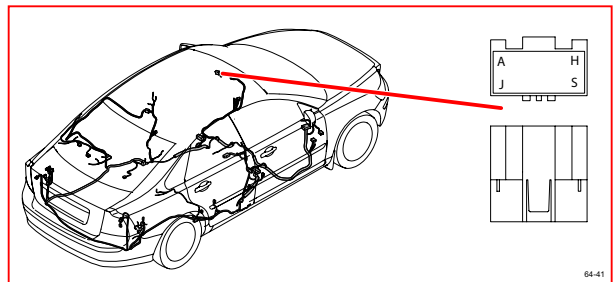
64/31 Connector



64/35 Connector



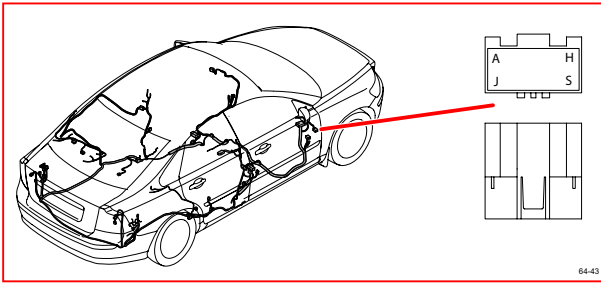
64/41 Connector



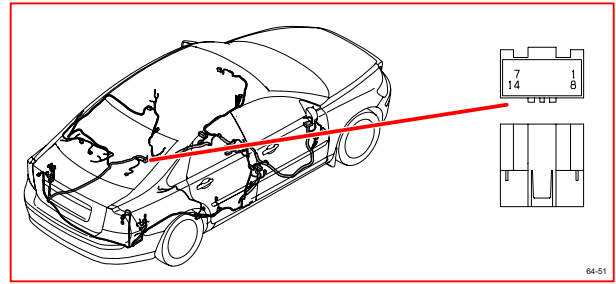
Component illustrations

64/43 - 64/112

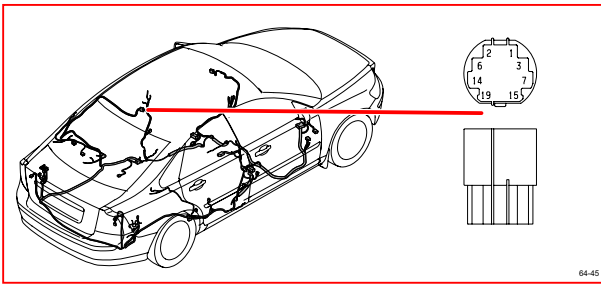
64/43 Connector



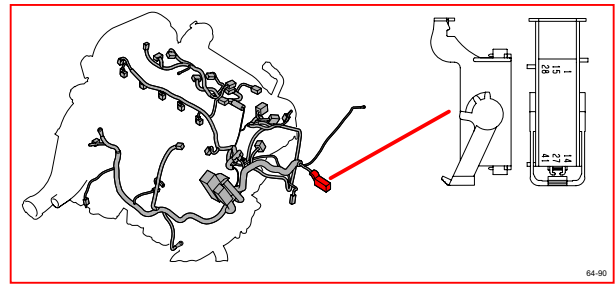
64/51 Connector



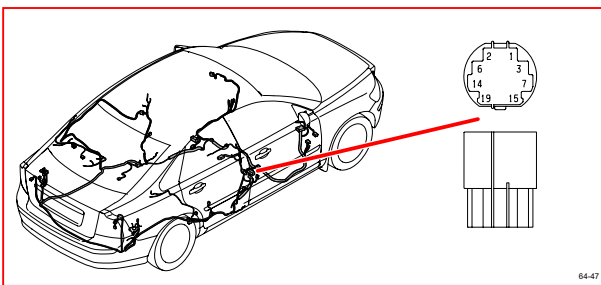
64/45 Connector



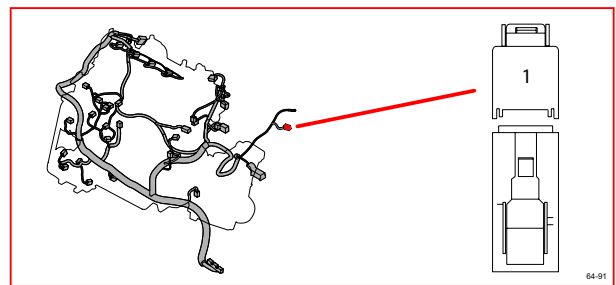
64/90 Connector



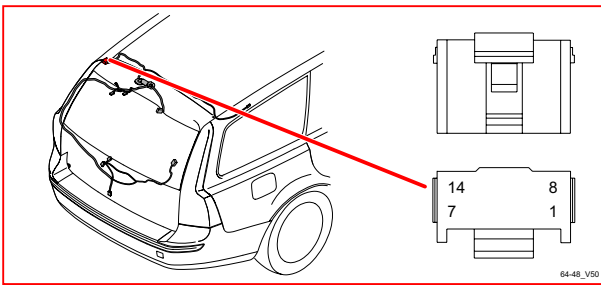
64/47 Connector



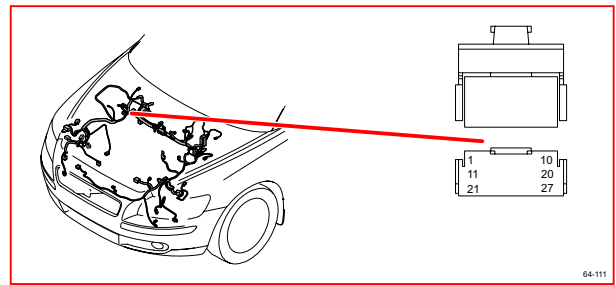
64/91 Connector



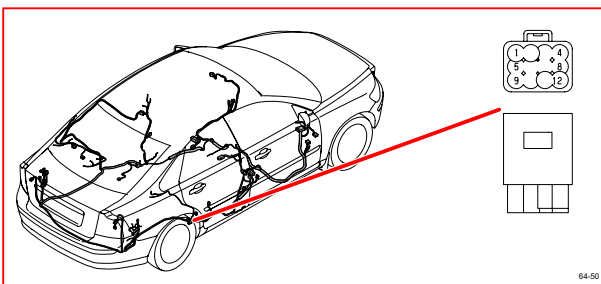
64/48 Connector, V50



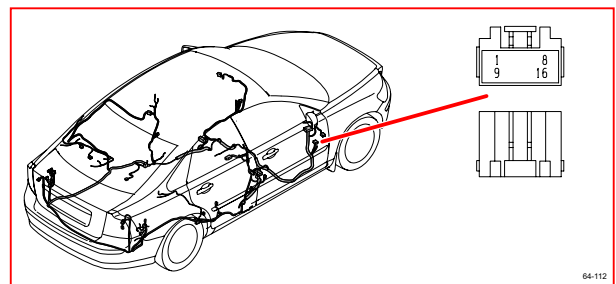
64/111 Connector



64/50 Connector



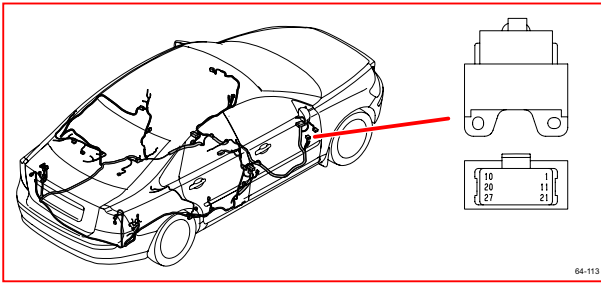
64/112 Connector



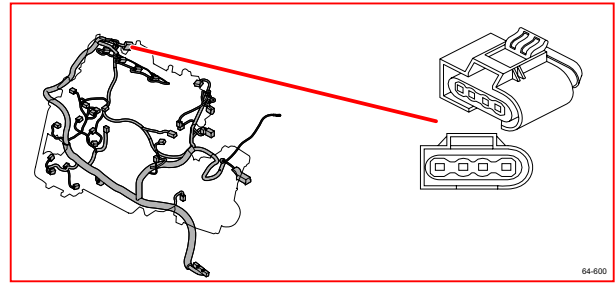
Component illustrations

64/113 - PF/no.

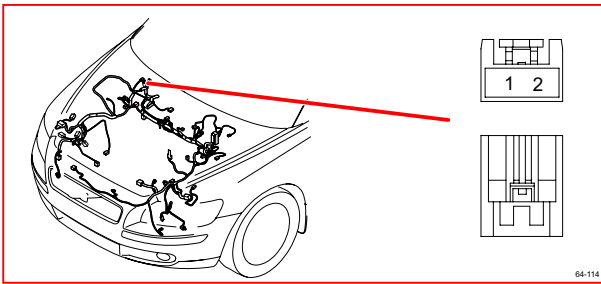
64/113 Connector



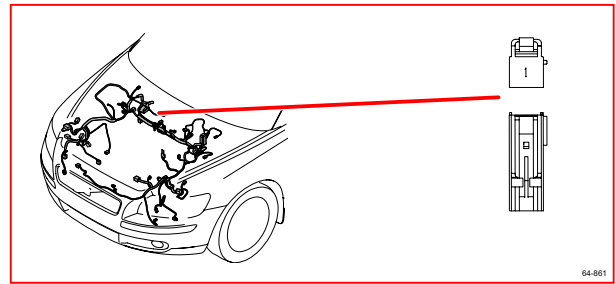
64/600 Connector



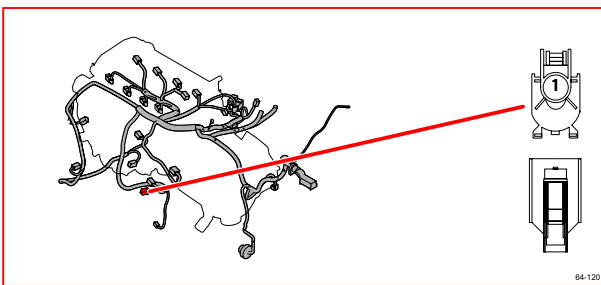
64/114 Connector



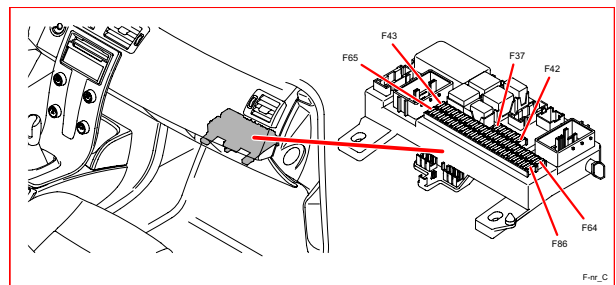
64/861 Connector



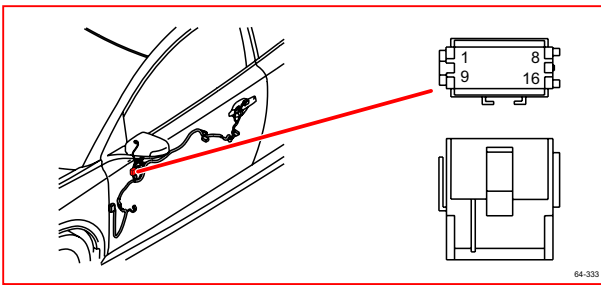
64/120 Connector



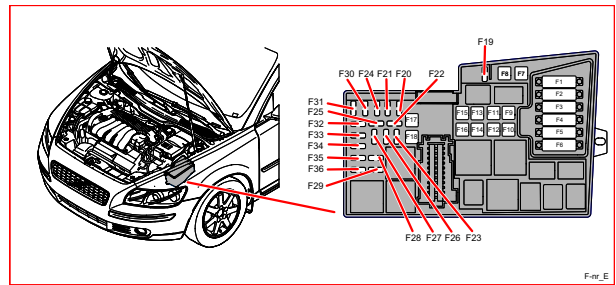
F/no. Fuse, passenger compartment



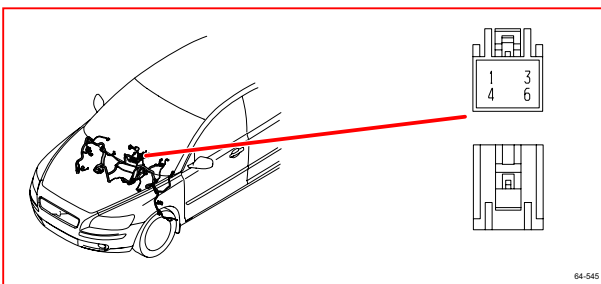
64/333 Connector



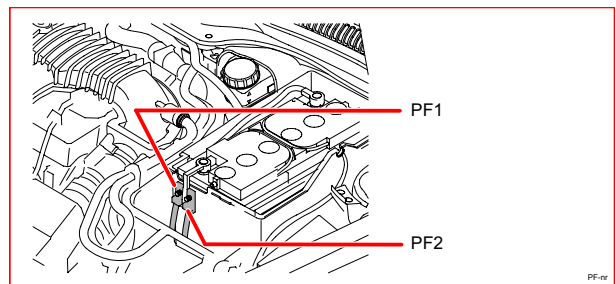
F/no. Fuse, engine compartment



64/545 Connector



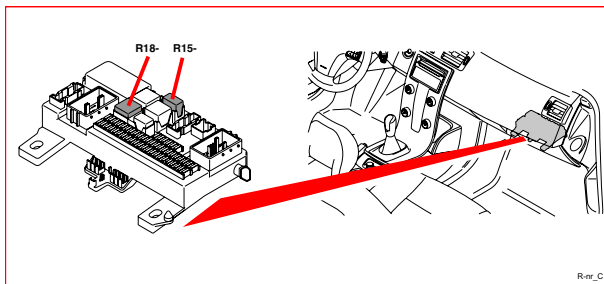
PF/no. Main fuse by battery



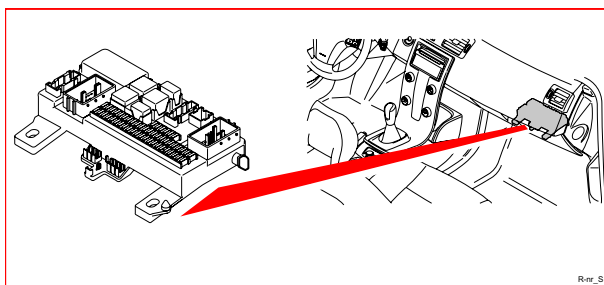
Component illustrations

R/no - 64X/322

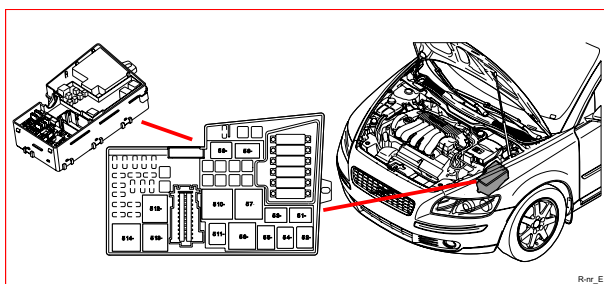
R/no. Relay, passenger compartment



R/no. Relay, soldered



R/no. Relay, engine compartment



- 4X/110 Connector interface, original car
- 10X/17C Connector interface, original car
- 10X/18C Connector interface, original car
- 16X/1A Connector interface, original car
- 16/1B Connector interface, original car
- 16X/105A Connector interface, original car
- 16X/105B Connector interface, original car
- 17X/19 Connector interface, original car
- 64X/322 Connector interface, original car

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		10X/17C	Connector interface, original car
F/no.	Fuse, passenger compartment	10X/18C	Connector interface, original car
F/no.	Fuse, engine compartment	16X/1A	Connector interface, original car
		16/1B	Connector interface, original car
PF/no.	Main fuse by battery	16X/105A	Connector interface, original car
		16X/105B	Connector interface, original car
R/no.	Relay, passenger compartment	17X/19	Connector interface, original car
R/no.	Relay, soldered	64X/322	Connector interface, original car
R/no.	Relay, engine compartment		