

Volvo S60 11 2012 Supplement Early Production Wiring Diagram

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VOLVO S60 (11-)

WIRING DIAGRAM 2012 SUPPLEMENT



TP 39204202

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 fit 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.
- Do not install any accessories in the areas between the A and B-posts, the B and C-posts, and the C and D-posts.

Test terminal

Fuse in cargo compartment auxiliary fuse box

Changes introduced up to October 2010 inclusive

Any changes made to the vehicle 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.

Ordering:

Electronic Wiring Diagrams (EWDs) can be ordered from the Technical Information Shop (TIS) at www.volvocarstechinfo.ford.com/vss

We retain the right to make modifications.

Table of Contents 1:2

Vehicles with SRS (Airbag)/SIPS bag/IC (Inflatable curtain).....	2
Explanations	6
Abbreviations.....	6
How to use the wiring diagrams 1:2.....	7
Overview without Start/stop function	9
Overview with Start/stop function	10
Overview, Distribution box in engine compartment	11
Overview, Distribution box in cargo compartment	12
Overview, Distribution box in passenger compartment	13

Fuses

Distribution box in engine compartment F1-F7.....	14
Distribution box in engine compartment F8-F23.....	15
Distribution box in engine compartment F27-F36.....	16
Distribution box in engine compartment F37-F38.....	17
Distribution box in engine compartment F39-F44.....	18
Central Electronic Module (CEM) F1 - F8.....	19
Central Electronic Module (CEM) F9 - F19.....	20
Central Electronic Module (CEM) F20 - F24.....	21
Distribution box in passenger compartment F1 - F17... ..	22
Distribution box in passenger compartment F18 - F30.....	23
Distribution box in engine compartment, cold zone.....	24
Distribution box in cargo compartment FA1-FA11.....	25
Battery PF1-PF2.....	26

Relays

Relays in the engine compartment	27
Relays in the engine compartment and passenger compartment.....	28
Relays in cargo compartment.....	29

Ground connections

Overview.....	30
31/1 - 31/7	31
31/10 - 31/15 continues	32
31/15 - 31/68	33
31/83 - 31/89	34
31/90 - 31/XX10.....	35
31/XX14 - 31/XX15	36

Control modules

Overview locations.....	37
Overview designations.....	38
Central Electronic Module (CEM) 1:3	39
Data communication, High speed CAN	42
Data communication Local CAN.....	43
Data communication LIN 1:2	44
Steering Wheel Module (SWM)	46

Group 27 Engine controls

Cruise control 4-Cyl. Turbo.....	47
Cruise control 4-Cyl. Turbo 1.6l	48
Cruise control 4-Cyl. Diesel DV6C.....	49
Cruise control, 5-Cyl. Diesel EU5	50
Cruise control 5 & 6 Cyl. Turbo.....	51
Start-/Stop function 4-Cyl. 1.6l Turbo.....	52
Start-/Stop function 4-Cyl. 1.6l Diesel DV6C	53

Group 28 Ignition and control system

Engine management system 4-Cyl. 1.6l Turbo 1:2.....	54
Engine management system 4-Cyl. 2.0l Turbo 1:2.....	56
Engine management system, 5-Cyl. Turbo 1:2.....	58
Engine management system, 6-Cyl. Turbo 1:2.....	60
Engine management system, 4-Cyl. Diesel DV6C 1:3	62
Engine management system, 5-Cyl. Diesel EURO5 1:3	65
Emission control 4-Cyl. Turbo 1.6l.....	68
Emission control 5-Cyl. Turbo.....	69

Group 32 Alternator and voltage regulator

Power supply 4-Cyl. without Start/Stop.....	70
Power supply 4-Cyl. with Start/Stop.....	71
Power supply 5-Cyl. & 6-Cyl.	72

Group 33 Starting system

Starting system 4-Cyl.....	73
Starting system 5- & 6-Cyl.	74

Group 35 Lighting

Beam length adjustment, manual	75
Active headlight	76
Brake lights V60.....	77

Group 36 Additional electrical equipment

Wiper/washer windshield	78
Washer headlights	79
Horn	80
Keyless vehicle 1:2	81
Anti-theft alarm	83
Collision warning with power brake booster.....	84
Alcohol lock.....	85

Group 39 Other

Cellular phone 1:2.....	86
Parking camera front.....	88
Bluetooth Handsfree	89
Navigation system and Traffic information, portable....	90

Table of Contents 2:2

Group 43 Transmission

Automatic transmission, TF-80SC AWD.....	91
Automatic transmission MPS6.....	92

Group 59 Brake system

Brake control system & DSTC.....	93
----------------------------------	----

Group 64 Steering

Speed dependent power steering.....	94
-------------------------------------	----

Group 83 Doors and openings

Central locking rear doors.....	95
Central locking cargo compartment S60.....	96
Central locking tailgate V60.....	97

Group 85 Interior equipment

Heated rear seat.....	98
-----------------------	----

Group 87 Climate control system

Climate control system, 4-Cyl. Turbo 1:2.....	99
Climate control system 4-Cyl. Diesel 1:2.....	101
Climate control system 5- & 6-Cyl. 1:2.....	103
Climate control system PTC-elements.....	105

Group 88 Internal equipment

Rear-view mirror with automatic dimming.....	106
Supplemental restraint system 1:2.....	107

Group 89 Body other

Radiator masking blind.....	109
-----------------------------	-----

Connectors 110

Branching points 136

Cable harness routing in vehicle

Harness engine, 4-Cyl. Turbo 1.6l.....	147
Harness engine 4-Cyl. Turbo.....	147
Harness engine, 6-Cyl. Turbo.....	148
Harness engine, Diesel 2.0l.....	149
Harness engine, Diesel 2.4l.....	150
Engine compartment harness LHD.....	151
Engine compartment harness RHD.....	152
Harness dashboard, LHD.....	153
Harness Dashboard, RHD.....	154
Harness Floor, LHD S60.....	155
Harness Floor, RHD S60.....	156
Floor Harness, LHD V60.....	157
Harness Floor, RHD V60.....	158
Harness infotainment, LHD S60.....	159
Harness infotainment, RHD S60.....	160
Harness infotainment, LHD V60.....	161
Harness infotainment, RHD V60.....	162
Roof harness, S60.....	163
Roof harness V60.....	163
Center console harness.....	164
Tunnel harness.....	164
Harness front door, left.....	165
Harness front door, right.....	165
Harness rear door, left.....	166
Harness rear door, right.....	166
Trunk lid/tailgate harness, S60.....	167
Trunk lid/tailgate harness, V60.....	167
Harnesses rear axle.....	168

Component illustrations 169

Index 1:2 209

List of components 1:4 211

Explanations

Abbreviations

Groups

Group 23	= Fuel system
Group 26	= Cooling system
Group 27	= Engine controls
Group 28	= Ignition and control system
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 55	= Parking brake
Group 59	= Brake system
Group 64	= Steering
Group 76	= Shock absorbers
Group 83	= Doors and openings
Group 84	= Exterior decorative elements, etc.
Group 85	= Interior equipment
Group 87	= Climate control system
Group 88	= Internal equipment

Designations ignition switch

X	= Accessories (audio position)
S	= Powered upon insertion of key
15	= The switch remains connected during start
15l	= 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

ACC	= Adaptive Cruise Control
Ag	= Silver plated
Au	= Gold plated
AUTO	= Automatic transmission
BLIS	= Blind Spot Information System
CAN	= CAN communication
DPY	= Display
ECC	= Electronic climate control system
ETA	= Throttle unit
EXC	= Exclusive
GDL	= Gas discharge lamp
HS	= High speed data bus
KEYLESS	= Keyless vehicle
IR	= Infrared sensor
LIN	= LIN communication
LH	= Left-hand side
LHD	= Left-hand drive
MAN	= Manual transmission
MEMORY	= Memory driver's seat
MIRCAM	= Parking camera in rear-view mirror
MS	= Midspeed data bus
MMS	= Mass Movement Sensor
PANROOF	= Panoramic roof
PETROL	= Gasoline
RH	= Right-hand side
RHD	= Right-hand drive
RTI	= Road Traffic Information
SCR	= Screened
SRS	= Airbag
STOSTA	= Start/stop function
T	= Turbo engine
W/O	= Without
2WD	= Two-wheel drive
4CYL, I4	= 4-cylinder engine
5CYL, I5	= 5-cylinder engine
6CYL, I6	= 6-cylinder engine

Colors

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

How to use the wiring diagrams 1:2

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

A. Component designation

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

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

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

Combined these give a component designation, for example 3/2.

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

List of type numbers

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

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

The systems are shown in not active status, i.e. "key removed" and when doors, trunk lid/tailgate and hood are closed.

B. Branching points

The wiring diagrams contain numbered branching points, for example 73/5035.

This manual contains a section with a list of branching points. This list shows all the components which 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, LIN 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, LIN and MOST communication is found in the section "Control modules".

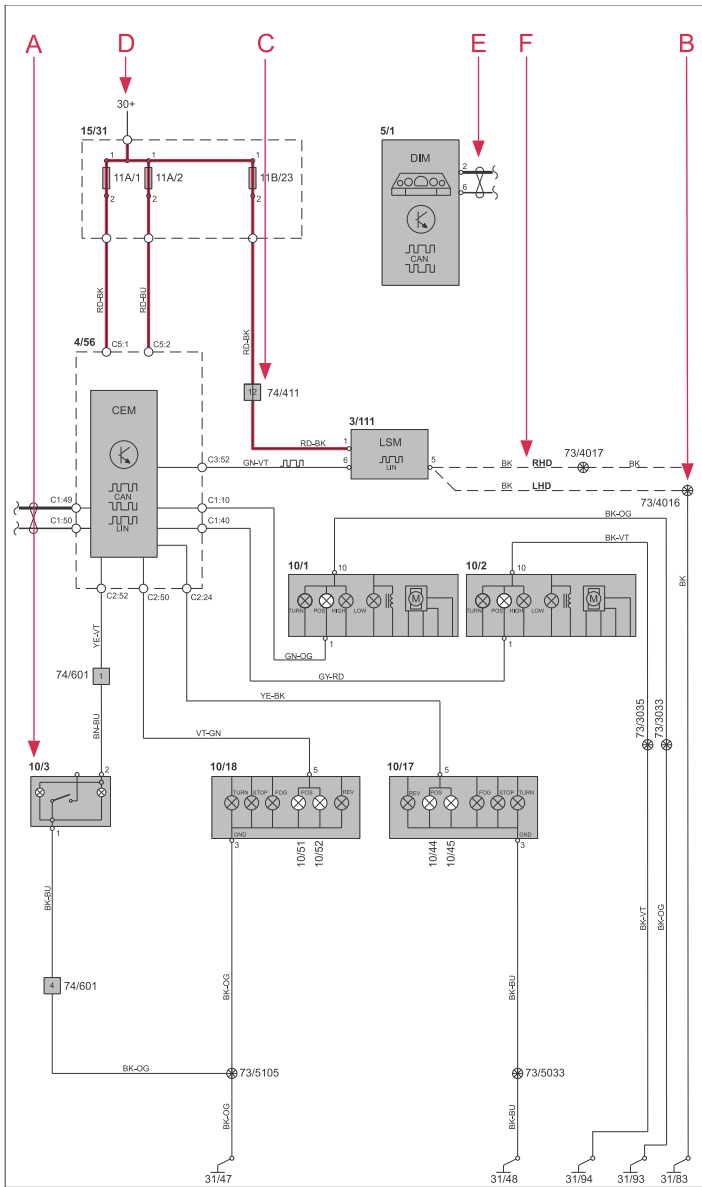
F. Abbreviations

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

G. Component location

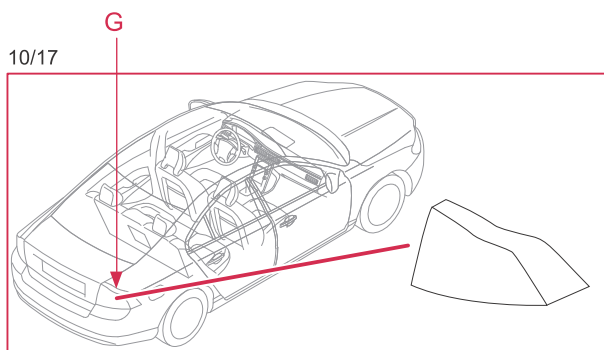
The end of the manual contains a section that describes component appearance and location in numerical order.

How to use the wiring diagrams 2:2



Explanation of symbols

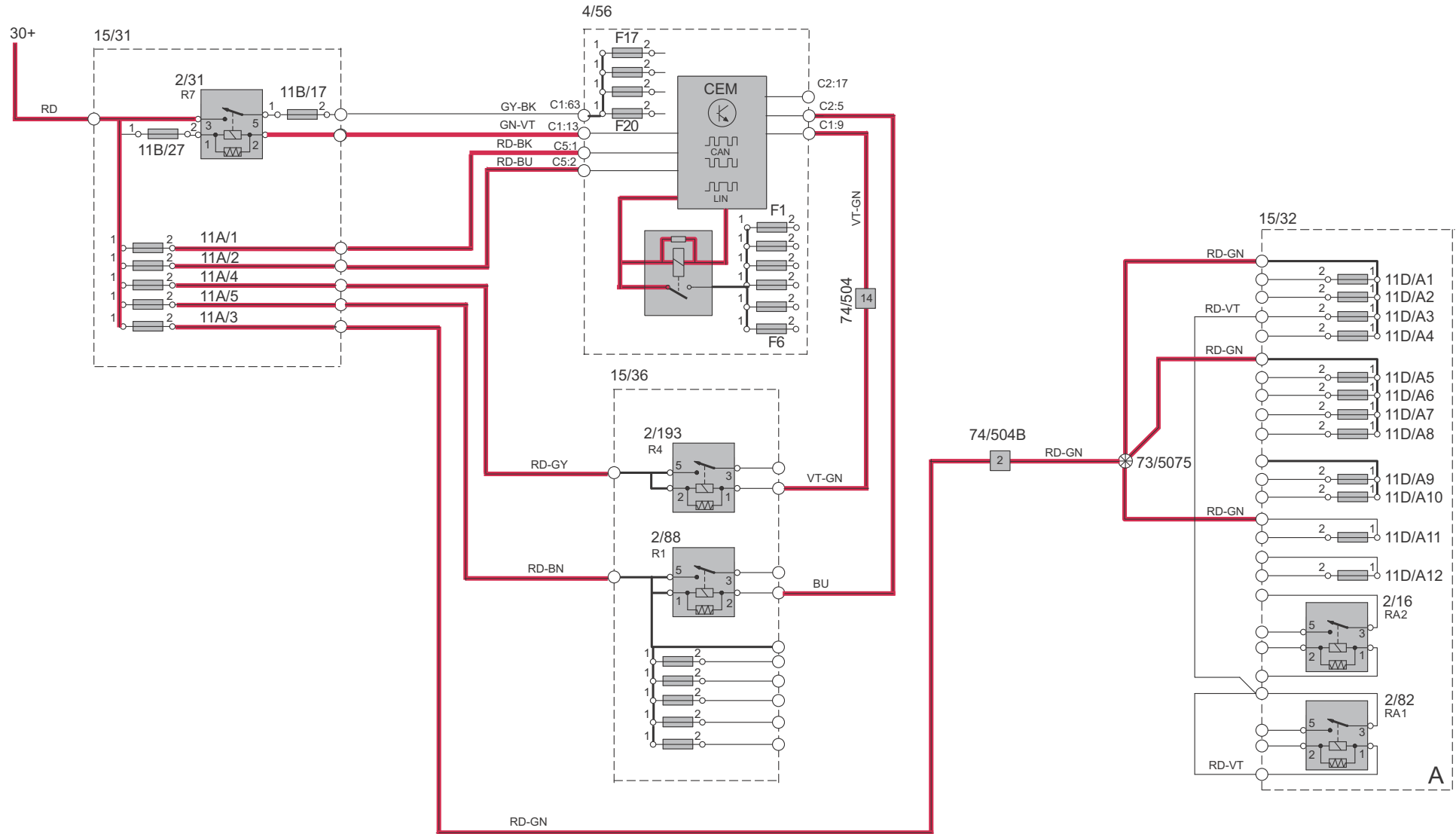
- = System voltage
- = Ground connection via wiring
- = Ground connection in component/chassis
- = Screened wire
- = Branching point
- = Twisted cable
- = Electrical connection
- = Variant
- = CAN communication
- = CAN high data signal (CAN H)
- = CAN low data signal (CAN L)
- = LIN communication
- = 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



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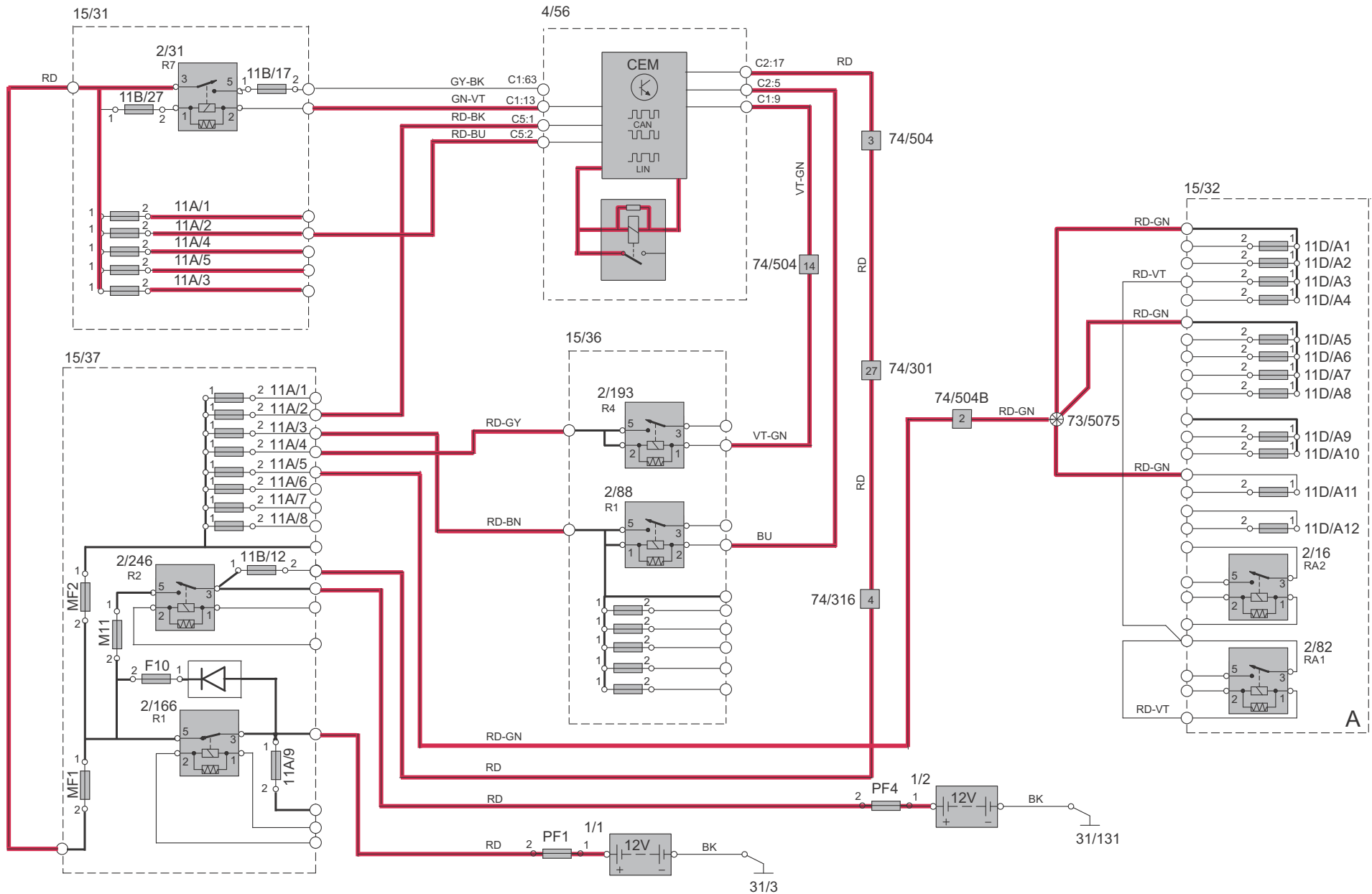
Electrical distribution

Overview without Start/stop function



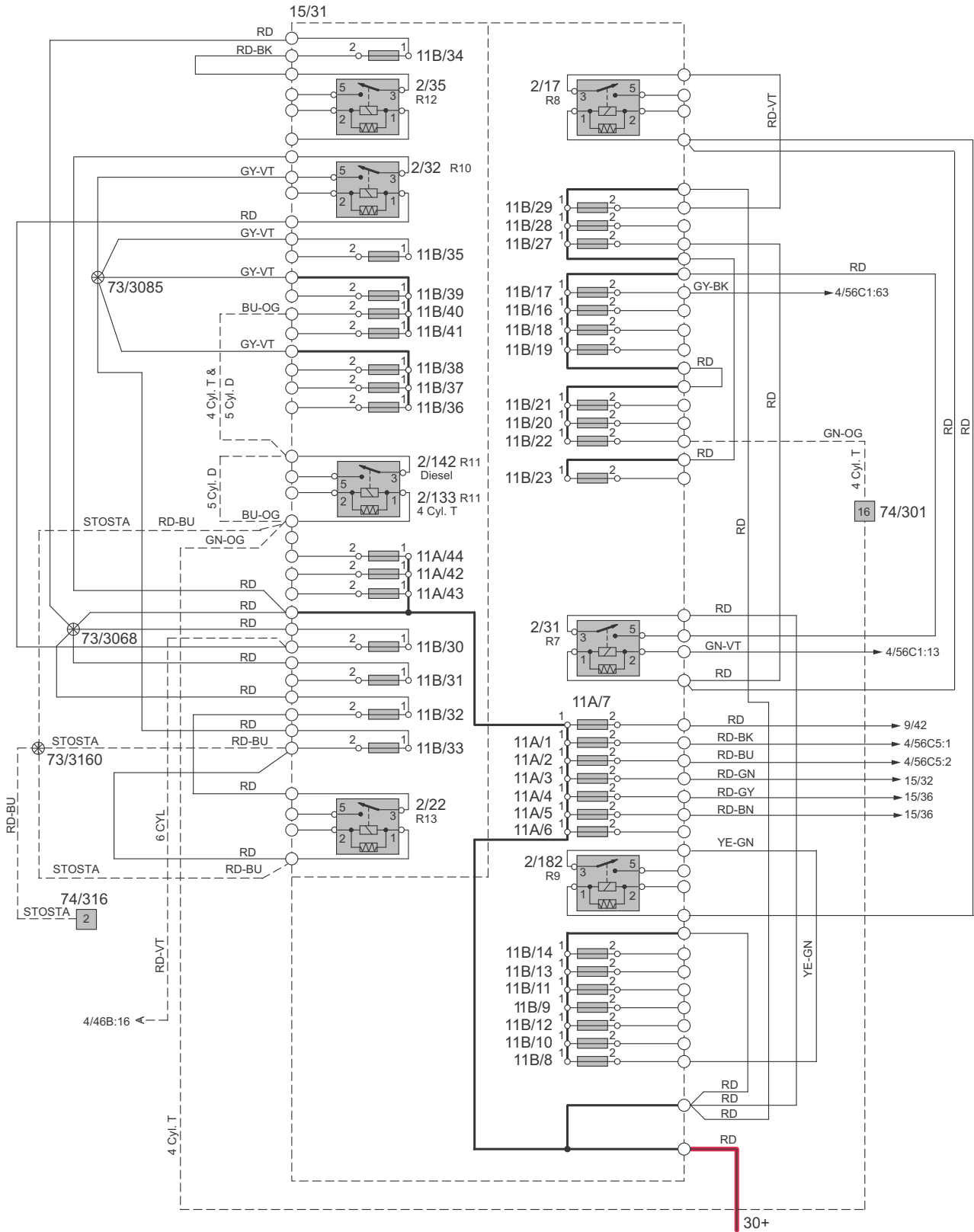
Electrical distribution

Overview with Start/stop function



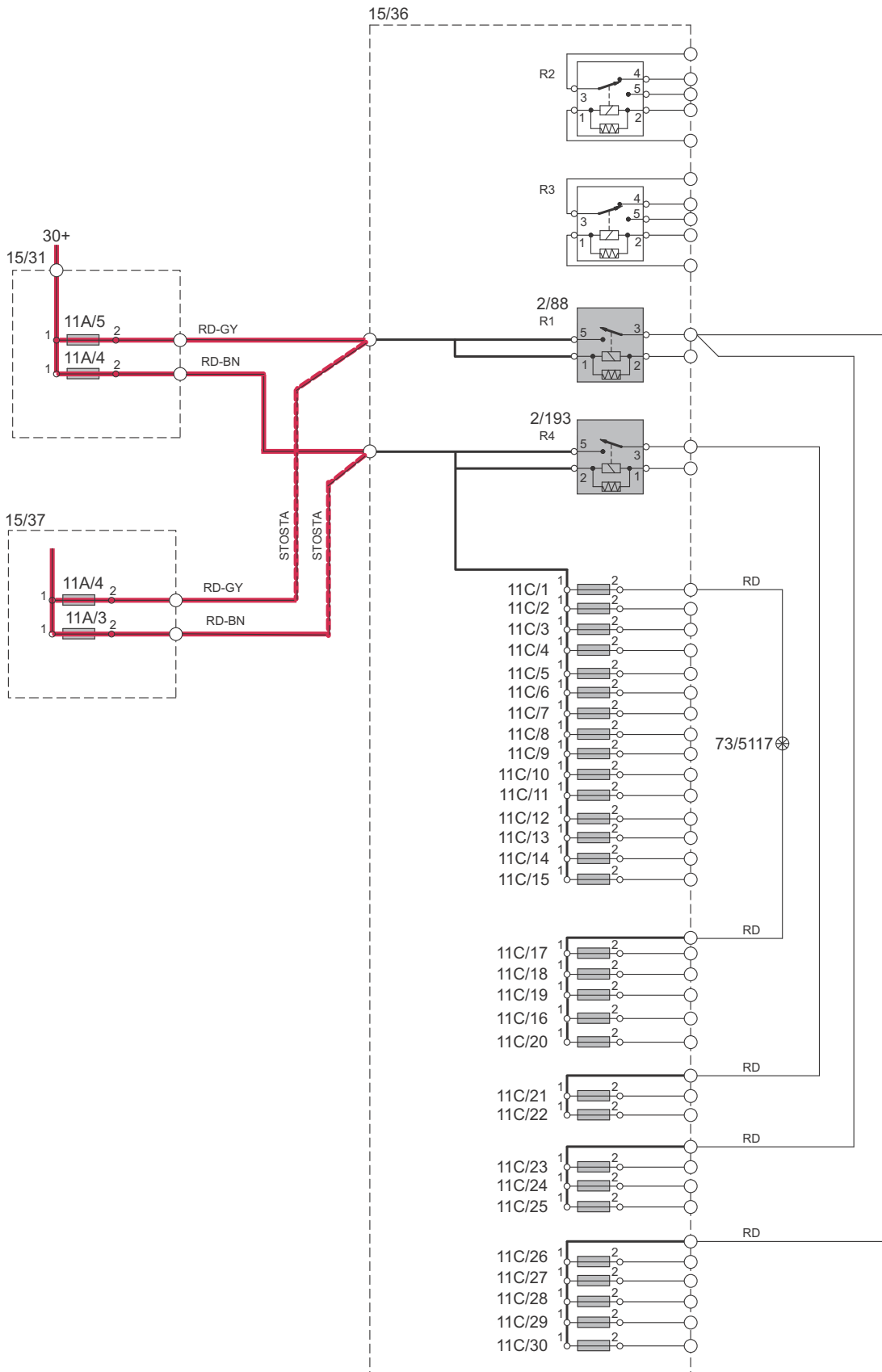
Electrical distribution 1:3

Overview, Distribution box in engine compartment



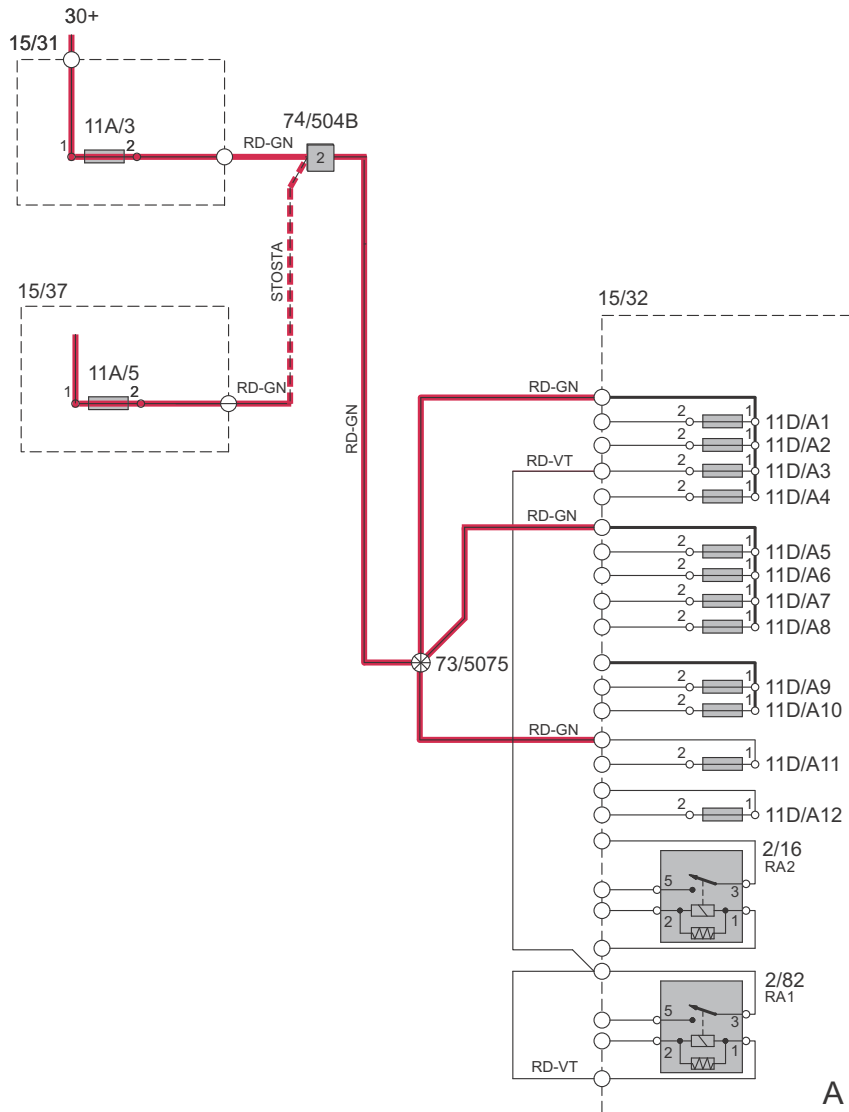
Electrical distribution 2:3

Overview, Distribution box in cargo compartment



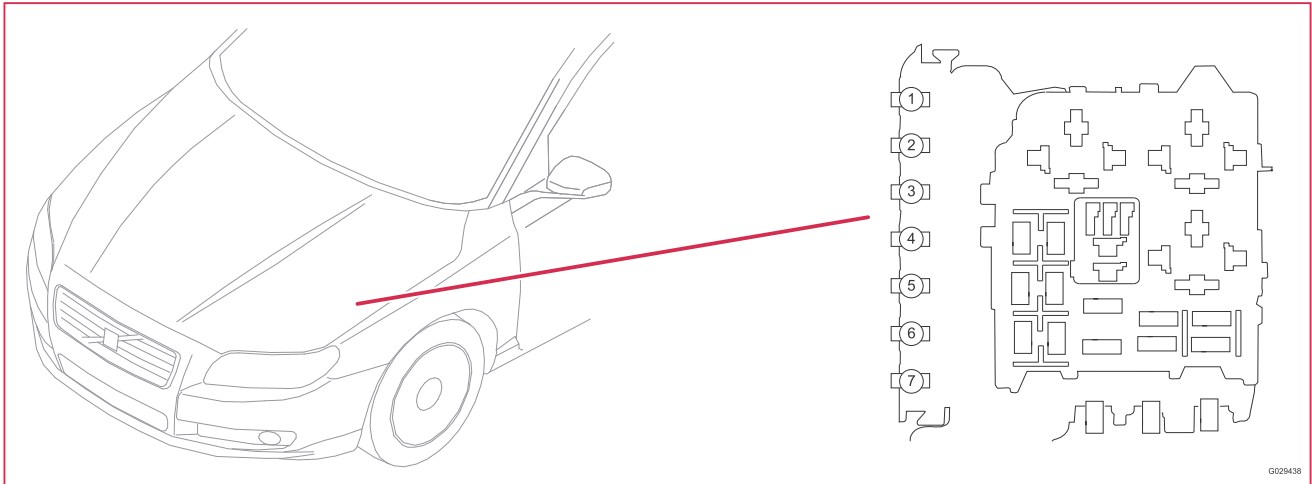
Electrical distribution 3:3

Overview, Distribution box in passenger compartment



Fuses

Distribution box in engine compartment F1-F7



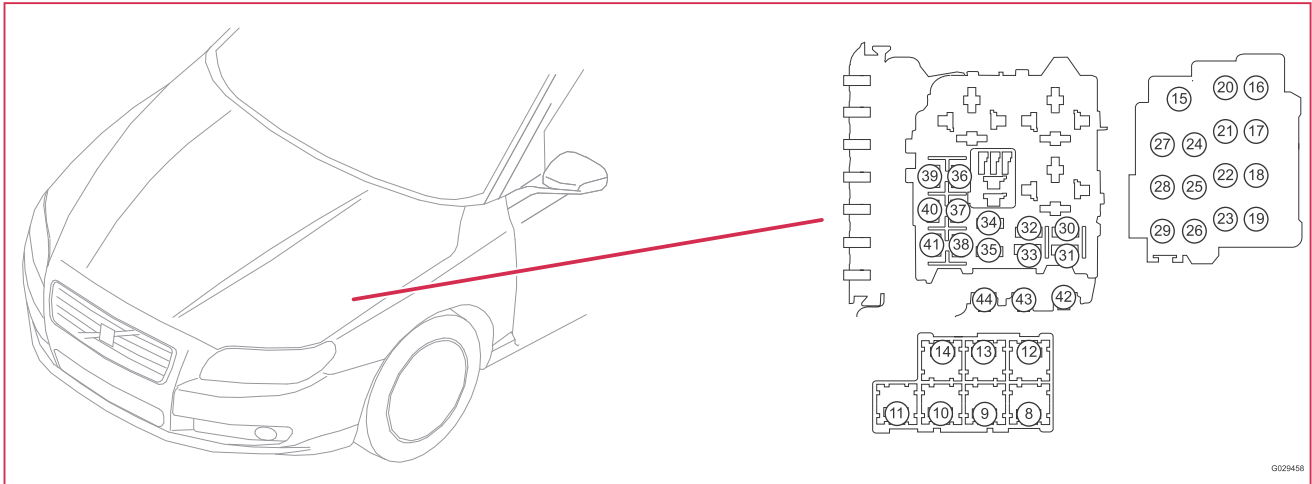
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15/31 Distribution box in engine compartment

No.	No.	Fuse function	via	A
F1	11A/1	4/56 F7 F9-F11 F21 F23	- relay in CEM relay in CEM relay in CEM relay in CEM	50
F2	11A/2	4/56 F3-F6 F8 F13-F16 F22 F24	- relay in CEM relay in CEM - - -	50
F3	11A/3	11D/A1-11D/A11	-	60
F4	11A/4	2/193 11C/1-11C/15 11C/21-11C/22 11D/A5	- - 2/193 -	60
F5	11A/5	2/88 11C/23-11C/25 11C/26-11C/30	- 2/88	60
F7	11A/7	9/42	-	100
continues				

Fuses

Distribution box in engine compartment F8-F23

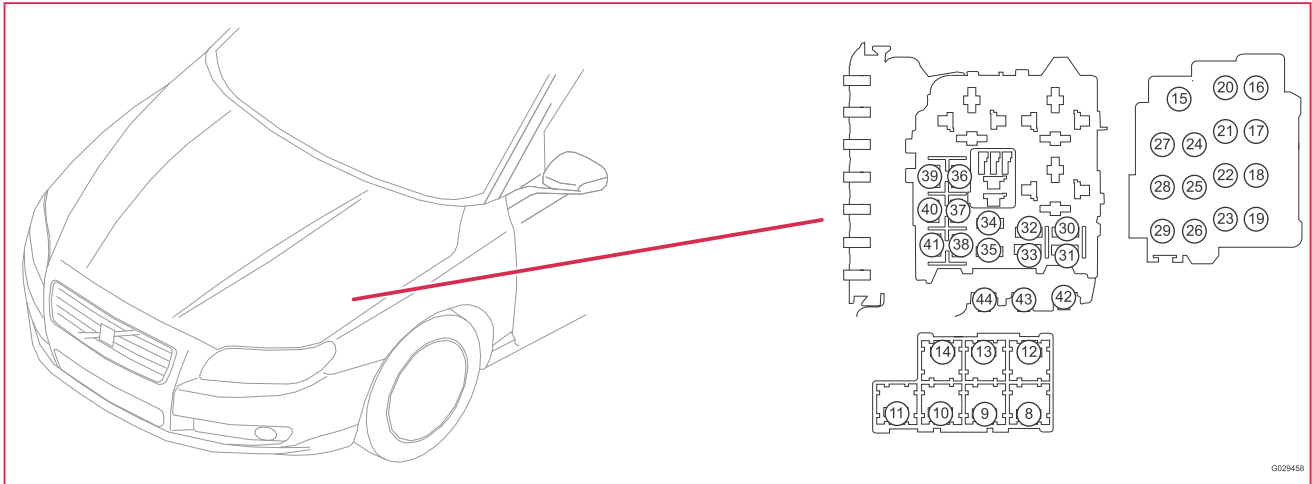


15/31 Distribution box in engine compartment

No.	No.	Fuse function	via	A
F8	11B/8	6/104 Washer motor headlights	2/182	20
F9	11B/9	6/1 Wiper motor module (WMM)	-	30
F10	11B/10	4/7 Combustion Preheater Module (CPM) 4/106 Control module, remote parking heater start	- -	25
F11	11B/11	4/31 Fan control module 6/28 Motor, passenger compartment fan	- -	40
F13	11B/13	4/16 Brake Control Module (BCM), pump	-	40
F14	11B/14	4/16 Brake Control Module (BCM), valves	-	20
F16	11B/16	4/118 Headlamp control module (HCM) 10/1 Left-hand front lamp housing 10/2 Right-hand front lamp housing	- - -	10
F17	11B/17	4/56 Central Electronic Module (CEM) F18-F20 Fuses in the Central Electronic Module (CEM)	-	20
F18	11B/18	4/16 Brake Control Module (BCM)	-	5
F19	11B/19	4/99 Electronic power steering control module 6/164 Electrical power steering module (EPS)	- -	5
F20	11B/20	4/9 Supplemental Restraint System (SRS) 4/28 Transmission Control Module (TCM) 4/46 Engine Control Module (ECM)	- - -	10
F21	11B/21	9/43 Heated windshield washer nozzle, left 9/44 Heated windshield washer nozzle, right	- -	10
F22	11B/22	2/133 Relay vacuum pump	-	5
F23	11B/23	3/111 Light Switch Module (LSM)	-	5
continues				

Fuses

Distribution box in engine compartment F27-F36

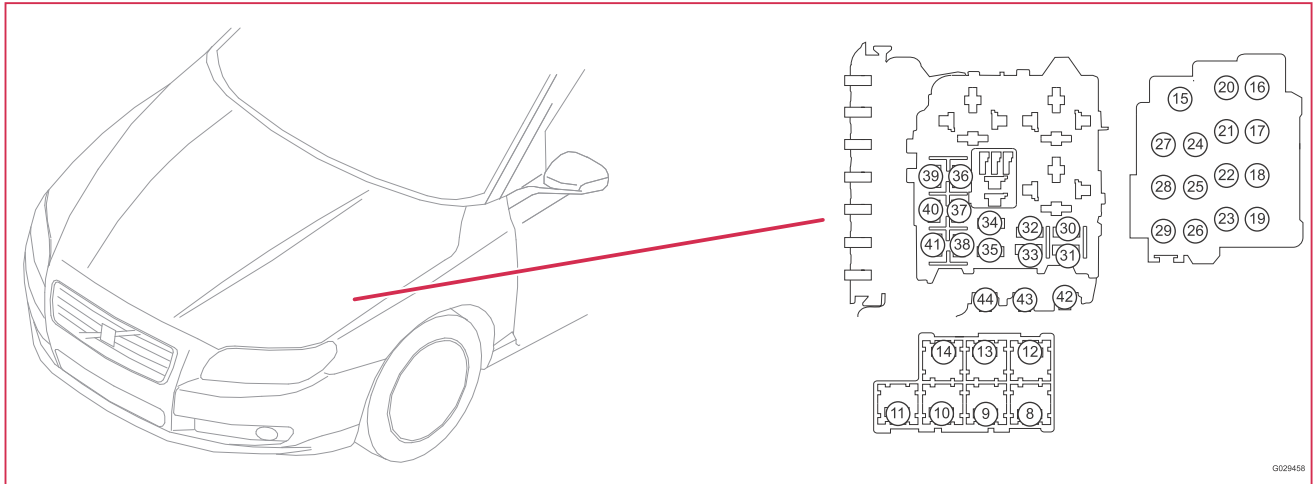


15/31 Distribution box in engine compartment

No.	No.	Fuse function	via	A
F27	11B/27	2/17 Relay, horn 2/31 Relay, 15-feed 2/182 Relay, headlight washer motor	-	5
F28	11B/28	2/64 Relay auxiliary lights 10/65 Auxiliary light, front right 10/69 Auxiliary light, front left	- 2/64 2/64	20
F29	11B/29	16/10 Horn 1 16/11 Horn 2	2/17 2/17	15
F30	11B/30	2/32 Main relay, engine management system 4/46 Engine Control Module (ECM)	- -	10
F31	11B/31	4/28 Transmission Control Module (TCM)	-	15
F32	11B/32	8/3 Electromagnetic clutch, climate control system	2/22	15
F33	11B/33	2/22 Relay, climate control system 2/133 Relay vacuum pump, Diesel 4-Cyl.	- -	5
F34	11B/34	6/25 Starter motor	2/35	30
F35	11B/35	20/3-6 Spark plug with ignition coil, 4-Cyl. Turbo 20/3-7 Spark plug with ignition coil, 5-Cyl. Turbo 20/3-8 Spark plug with ignition coil, 6-Cyl. Turbo 20/16 Capacitor, 6-Cyl. Turbo	- - - -	10 20
F36	11B/36	4/46 Engine Control Module (ECM), 4-Cyl. & 5-Cyl. Diesel 4/46 Engine control module (ECM), 4-Cyl., 5-Cyl. & 6-Cyl. Turbo	- -	15 10
continues				

Fuses

Distribution box in engine compartment F37-F38

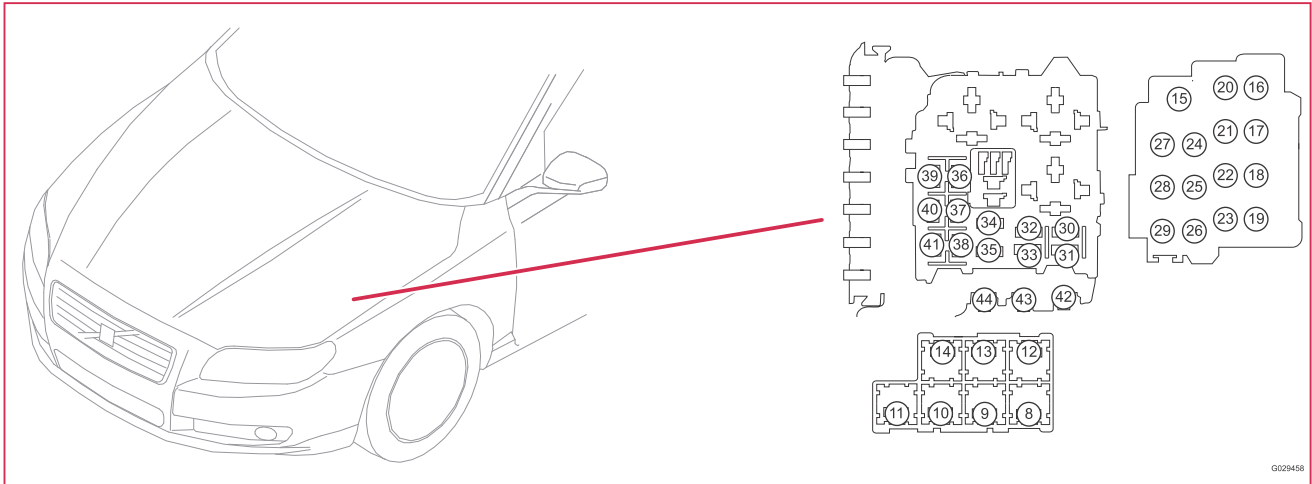


15/31 Distribution box in engine compartment

No.	No.	Fuse function	via	A	
F37	11B/37	7/17	Mass air flow sensor MAF, 4-Cyl. 1.6l Turbo	-	15
		8/121	Bypass valve charge air cooler, 4-Cyl. 1.6l Turbo	-	
		8/166	Thermostat, 4-Cyl. 1.6l Turbo	-	
		8/167	Bypass Solenoid, 4-Cyl. 1.6l Turbo	-	
		7/15	Front heated oxygen sensor, 4-Cyl. 1.6l Diesel	-	
		7/17	Mass air flow sensor MAF, 4-Cyl. 1.6l Diesel	-	
		8/111	Control valve fuel flow, 4-Cyl. 1.6l Diesel	-	
		7/17	Mass air flow sensor MAF, 5-Cyl. Turbo	-	
		8/6-10	Injection valves, 5-Cyl. Turbo	-	
		7/17	Mass air flow sensor MAF, 5-Cyl. Diesel	-	
		8/98	Control valve fuel pressure, 5-Cyl. Diesel	-	
		8/111	Control valve fuel flow, 5-Cyl. Diesel	-	
		4/46	Engine Control Module (ECM), 6-Cyl. Turbo	-	
7/17	Mass air flow sensor MAF, 6-Cyl. Turbo	-			
8/6-11	Injection valves, 6-Cyl. Turbo	-			
F38	11B/38	7/17	Mass air flow sensor MAF, 4-Cyl. Turbo	-	10
		8/18	EVAP valve, 4-Cyl. Turbo	-	
		8/19	Solenoid, variable valve timing, intake, 4-Cyl. Turbo	-	
		8/28	Turbocharger control valve, 4-Cyl. Turbo	-	
		8/81	Solenoid, variable valve timing, exhaust, 4-Cyl. Turbo	-	
		8/159	Bypass valve, 4-Cyl. Turbo	-	
		6/73	Coolant pump, 4-Cyl. Diesel	-	
		8/111	Control valve fuel flow, 4-Cyl. Diesel	-	
		8/113	Bypass valve, EGR cooling, 4-Cyl. Diesel	-	
		8/81	Solenoid, variable valve timing, exhaust, 5-Cyl. Turbo	-	
		8/117	Solenoid, variable valve timing, intake, 5-Cyl. Turbo	-	
		8/128	Belt force limiter driver's, 5-Cyl. Turbo	-	
		7/35	Oil level sensor, 5-Cyl. Diesel	-	
		8/3	Electromagnetic clutch, climate control system, 5-Cyl. Diesel	-	
		8/113	Control valve fuel flow, 5-Cyl. Diesel	-	
		4/46	Engine Control Module (ECM), 6-Cyl. Turbo	-	
		8/3	Electromagnetic clutch climate control system, 6-Cyl. Turbo	-	
8/28	Turbocharger control valve, 6-Cyl. Turbo	-			
8/68	Relief valve, 6-Cyl. Turbo	-			
8/117	Solenoid, variable valve timing, intake, 6-Cyl. Turbo	-			
continues					

Fuses

Distribution box in engine compartment F39-F44



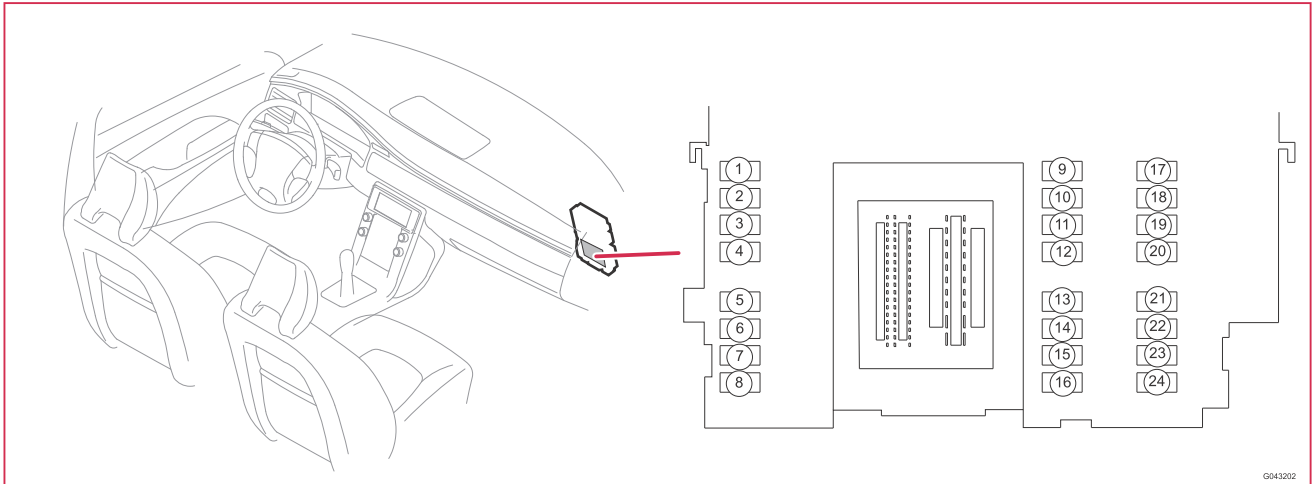
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15/31 Distribution box in engine compartment

No.	No.	Fuse function	via	A
F39	11B/39	7/15 Front heated oxygen sensor, 4-Cyl. Turbo	-	10
		7/82 Rear heated oxygen sensor bank 1, 4-Cyl. Turbo	-	
		4/136 Radiator masking blind module (AGM), Diesel	-	
		7/15 Front heated oxygen sensor, Diesel	-	15
		7/15 Front heated oxygen sensor, bank 1, 5-Cyl. Turbo	-	
		7/103 Front heated oxygen sensor, bank 2, 5-Cyl. Turbo	-	
F40	11B/40	7/15 Front heated oxygen sensor bank 1, 6-Cyl. Turbo	-	20
		7/82 Rear heated oxygen sensor bank 1, 6-Cyl. Turbo	-	
		8/18 EVAP valve, 6-Cyl. Turbo	-	
		6/73 Coolant pump, 4-Cyl. Turbo	2/133	
		6/114 Vacuum pump, 4- & 5-Cyl. Turbo	2/142	
F41	11B/41	9/32 PTC resistor crankcase ventilation, 5-Cyl. Turbo	-	5
		2/142 Relay pre-heater fuel filter, 5-Cyl. Diesel	-	
		9/38 Heated fuel filter, 5-Cyl. Diesel	2/142	
F42	11A/42	6/67 Pump, fuel leakage control 6-Cyl.	-	70
		9/32 PTC resistor crankcase ventilation, 5-Cyl. Diesel	-	
F43	11A/43	4/109 Control module glow plug, 4-Cyl. Diesel	-	60
		20/22-26 Glow plug, 5-Cyl. Diesel	4/109	
F44	11A/44	4/71 Cooling fan 4-Cyl. Turbo & 4-Cyl. Diesel	-	80
		4/71 Cooling fan control module, 5-Cyl. Diesel & 6-Cyl. Turbo	-	100

Fuses

Central Electronic Module (CEM) F1 - F8

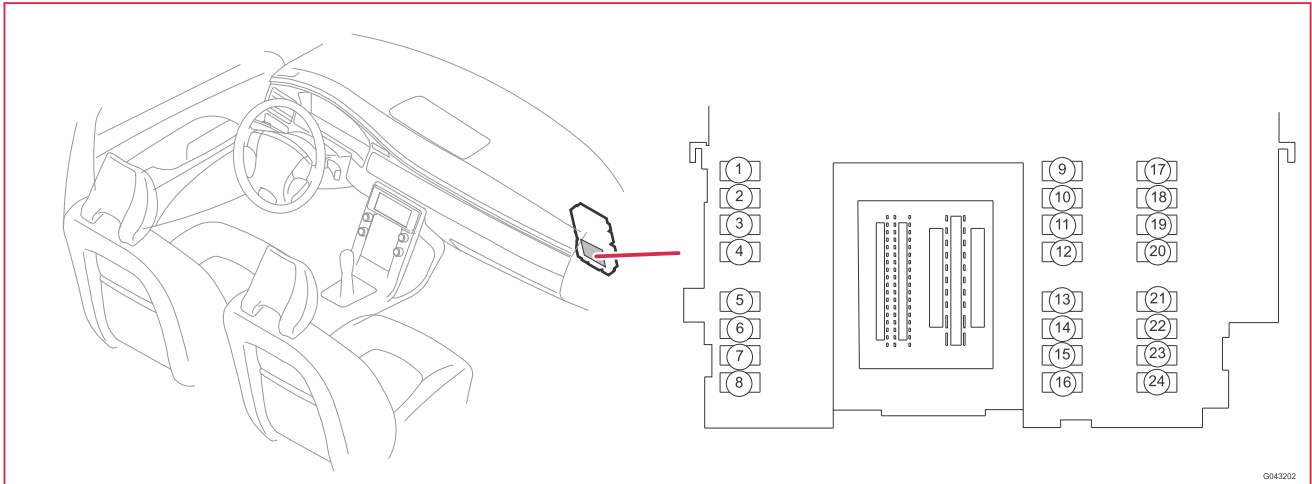


4/56 Central Electronic Module (CEM)

No.	Fuse function	via	A
F1	2/16 Relay, rear window wiper	-	15
	6/32 Rear window wiper motor	2/16	
F3	3/27 Switch unit, power passenger seat	-	7,5
	3/176 Power window switches, driver's door	-	
	4/52 Power Seat Module (PSM)	-	
	4/76 Remote control opener garage door	-	
	10/25 Ceiling light, cargo compartment	-	
	10/29 Glove compartment lighting	-	
	10/125 Left-hand front courtesy lighting	-	
	10/126 Right-hand front courtesy lighting	-	
	10/150A Rear reading light	-	
	10/150B Rear reading light	-	
	17/45 Alcohol lock outlet	-	
	26/6 Converter/control module, sill moldings, driver's side	-	
	26/7 Converter/control module, sill moldings, passenger side	-	
26/8 Alcohol lock charging cradle	-		
F4	5/1 Driver Information Module (DIM)	-	5
F5	4/80 Forward Sensing Module (FSM)	-	10
	7/203 Forward-aimed radar (FLR)	-	
F6	7/149 Rain Sensor Module (RSM)	-	7,5
	10/114 Left-hand vanity mirror lighting	-	
	10/115 Right-hand vanity mirror lighting	-	
F7	3/4 Steering wheel switch left (SWSL)	3/130	7,5
	3/131 Steering wheel switch right (SWSR)	3/130	
F8	6/37 Lock motor, fuel filler cover	relay in CEM	10
continues			

Fuses

Central Electronic Module (CEM) F9 - F19



4/56 Central Electronic Module (CEM)

No.	Fuse function	via	A
F9	6/127 Washer motor	-	15
F10	6/127 Washer motor	-	15
F11	6/8 Central locking motor, trunk lid	relay in CEM	10
F13	4/83 Fuel pump control module 6/33 Fuel pump	relay in CEM 4/83	20
F14	4/6 Climate Control Module (CCM) 7/199 Ultrasonic sensor (IMS)	- -	5
F15	4/102 Steering column lock module (SCL)	relay in CEM	15
F16	16/35 Siren Control Module (SCM) 17/13 Data link connector	- -	5
F18	4/9 Supplemental Restraint System (SRS) 4/125 Closing velocity module (CVM) 7/93 Occupant Weight Sensor (OWS)	- - -	10
F19	4/80 Forward Sensing Module (FSM) 7/203 Forward-aimed radar (FLR)	- -	5
continues			