

Volvo S60 S60r S80 2004 Wiring Diagram

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VOLVO
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VOLVO
WIRING DIAGRAM S60/S60R/S80

2004

TP 3970202

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

Warning!

Vehicles equipped with SRS/SIPS bag/IC must be handled with extra care when making repairs. This avoids:

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 seatbelt tensioners. SIPS bags are only installed on SRS vehicles from 1995 and onward. SIPS bag decals are located on the windshield and seat compartment. Vehicles with IC can be recognized by the letters IC on the C/D panel (4 door) or the B panel (5 door).

General recommendations

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

Test terminal

Data link connector in the passenger compartment.

Changes introduced up to March 2003

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.

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Order number TP 3970202

Replaces previous manual TP 3970201

Groups

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

Ignition switch symbols

X	= Accessories (audio position)
S	= Powered upon insertion of key
15	= The switch 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

ACC	= Accessory
AMP	= Amplifier
AUDIO	= Audio system
AUTO	= Automatic transmission
Bi-X	= Bi-Xenon
CEM	= Central Electronic Module
DRL	= Daytime Running Lights
DSTC	= Dynamic Stability Traction Control
E.E	= Early edition
EXT.D	= Extended electrical distribution
HISPEED	= High speed data bus
L.E	= Late edition
LH	= Left-hand side
LHD	= Left-hand drive
LOSPEED	= Low speed data bus
MAN	= Manual transmission
PCL	= Power Child Lock
REM	= Rear Electronic Module
RH	= Right-hand side
RHD	= Right-hand drive
RTI	= Road Traffic Information
SRS	= Airbag
SULEV	= Super Ultra Low Emission Vehicle
SUM	= Suspension Module
TELE	= Mobile telephone
T	= Turbo engine
ULEV	= Ultra Low Emission Vehicle
W/O	= Without
2VVT	= 2 Variable Valve Times
5CYL	= 5-cylinder engine
6CYL	= 6-cylinder engine

Colors

BL	= Blue
BN	= Brown
GN	= Green
GR	= Gray
OR	= Orange
P	= Pink
R	= Red
SB	= Black
VO	= Violet
W	= White
Y	= Yellow

How to use the wiring diagrams

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
53	Junction point
54	Connector

B. Junction points

The wiring diagrams contain numbered junction points, e.g. 53/352.

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

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

C. Connectors

Connectors provide a bridge between two cables 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 are equipped with a CAN network, which transmits information. Connections to this network are shown in their entirety on the respective wiring diagrams. Complete information on CAN communication is can be found in the section titled "Data communication".

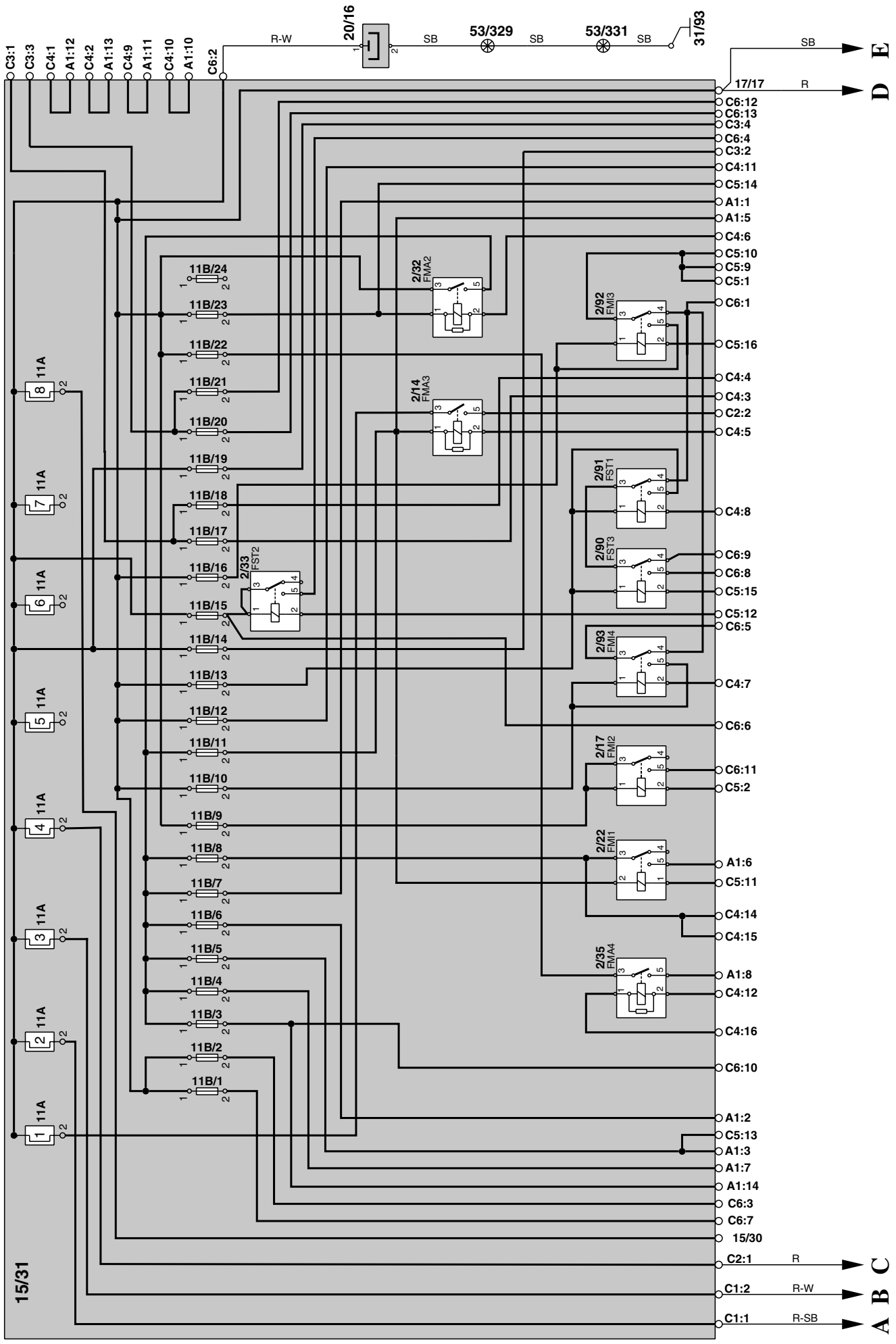
F. Abbreviations

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

G. Component location

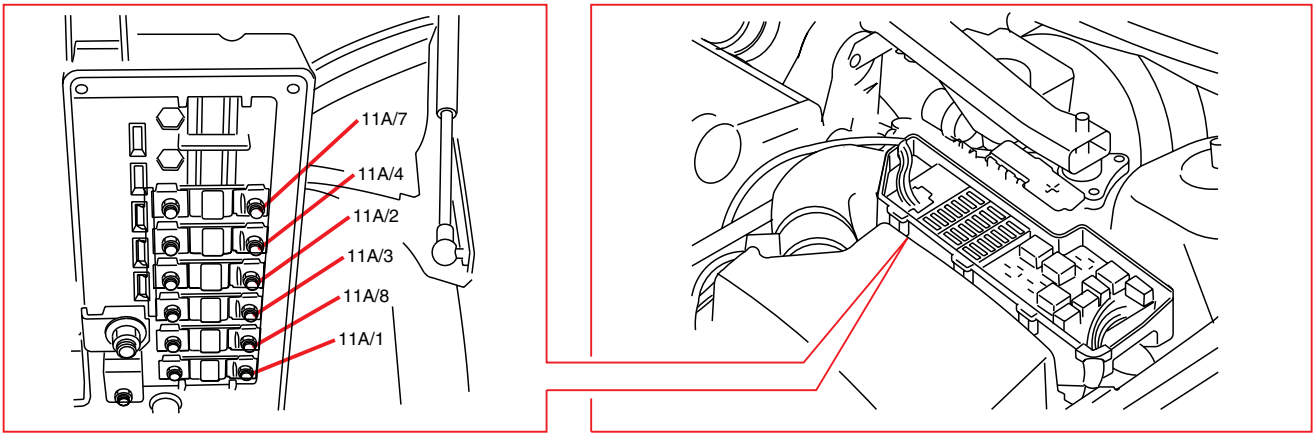
There is a section at the end of the manual in which the appearance and location of components is described in numerical order.

Electrical distribution Overview



Fuses

Engine compartment 11A/1-8

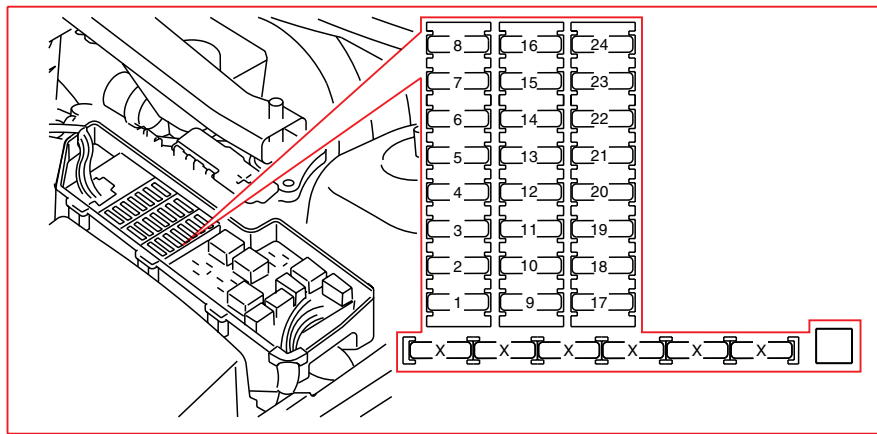


11A Fuses in the engine compartment

No.	Fuse function	via	A
1	20/22-26 Glow plug	2/14	60
2	11C/30-31 Fuses in the passenger compartment 11C/32-33 Fuses in the passenger compartment 11C/34-37 Fuses in the passenger compartment	2/61	60
3	11C/1-4 Fuses in the passenger compartment 11C/5-9 Fuses in the passenger compartment 11C/12-15 Fuses in the passenger compartment 11C/16-19 Fuses in the passenger compartment	2/31 2/30	60
4	11C/21-24 Fuses in the passenger compartment 11C/25-29 Fuses in the passenger compartment		60
7	Accessories		60
8	6/29 Motor, electric cooling fan	4/71	60

Fuses

Engine compartment 11B/1-9

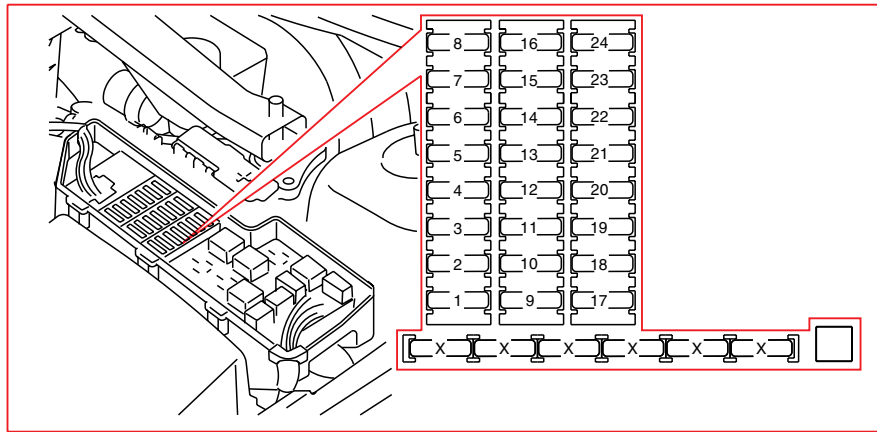


11B Fuses in the engine compartment

No.	Fuse function	via	A
1	6/35 Fuel pump, auxiliary heater 6/73 Coolant pump, auxiliary heater 9/30 Auxiliary heater	4/7 4/7 4/7	25
2	Accessory (auxiliary light)		20
4	4/46 Engine Control Module (ECM), Diesel, Bi-fuel 7/15 Heated oxygen sensor 7/82 Heated oxygen sensor, diagnosis 1 7/103 Heated oxygen sensor 3 7/104 Heated oxygen sensor 4 (diagnostic probe) 8/111 Solenoid valve, high-pressure diesel		20
5	6/67 Pump, fuel leakage control 6/105 Fuel distributor, gas 8/18 EVAP valve 8/19 Solenoid, variable valve time, inlet 8/28 Turbocharger control valve 8/75 Valve, fuel cut-off DFCO 8/81 Solenoid, variable valve timing outlet 9/32 PTC resistor, air preheating, 5-cyl Petrol, Bi-Fuel		10
6	7/17 Mass airflow sensor MAF, Diesel 4/46 Engine Control Module (ECM), Gasoline 7/17 Mass airflow sensor (MAF), Gasoline 8/6-11 Injectors		5 15
7	4/46 Engine Control Module (ECM), 5-cyl normally aspirated 4/50 Electronic Throttle Module (ETM), Bi-Fuel		10
8	6/44 Cooling fan, electrics box, engine compartment 7/51 Accelerator pedal sensor 8/3 Electromagnetic clutch, climate control system	2/22	10
9	2/17 Horn relay 16/10 Horn 1 16/11 Horn 2	2/17 2/17	15
continues			

Fuses

Engine compartment 11B/11-23

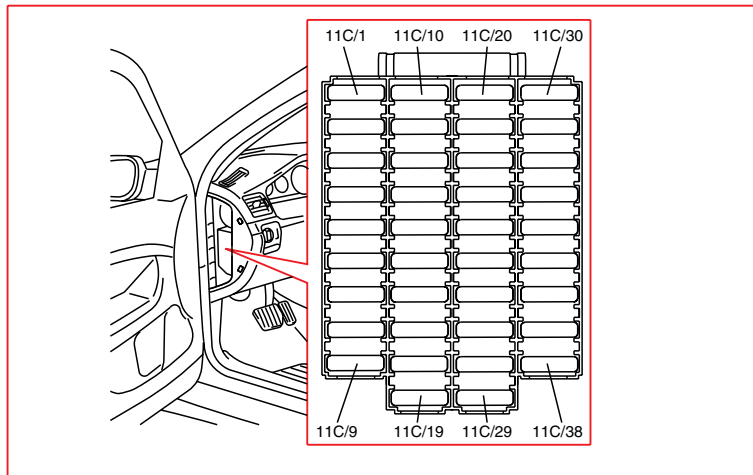


11B Fuses in the engine compartment

No.	Fuse function	via	A
11	2/14 Relay, glow plug unit 2/22 Relay, climate control system 8/17 EGR valve, Diesel 8/64 Solenoid valve, engine mounting, Diesel 8/82 Solenoid, variable turbo geometry, Diesel 9/32 PTC resistor, air preheating, diesel 20/3-8 Spark plug and ignition coil		20
12	3/9 Brake light contact		5
13	2/90 Relay, windshield wiper, low/high speed 2/91 Relay, intermittent wiping 6/1 Windshield wiper motor	2/90, 2/91	25
14	4/16 Brake Control Module (BCM)		30
15	2/33 Relay, Bi-Fuel fuel system 8/79 Valve LPG	2/33	15
16	2/92 Relay, windshield washer motor 6/2 Windshield washer pump 6/3 Right-hand headlight wiper motor 6/4 Left-hand headlight wiper motor	2/92 2/92 2/92	15
17	10/66 Low beam/Bi-Xenon, right		10
18	10/70 Low beam/Bi-Xenon, left		10
19	4/16 Brake Control Module (BCM)		30
20	10/68 Left-hand high beam		15
21	10/64 Right-hand high beam		15
22	6/25 Starter motor	2/35	25
23	2/32 Engine management system main relay 4/46 Engine Control Module (ECM), Gasoline		5

Fuses

Passenger compartment 11C/1-9

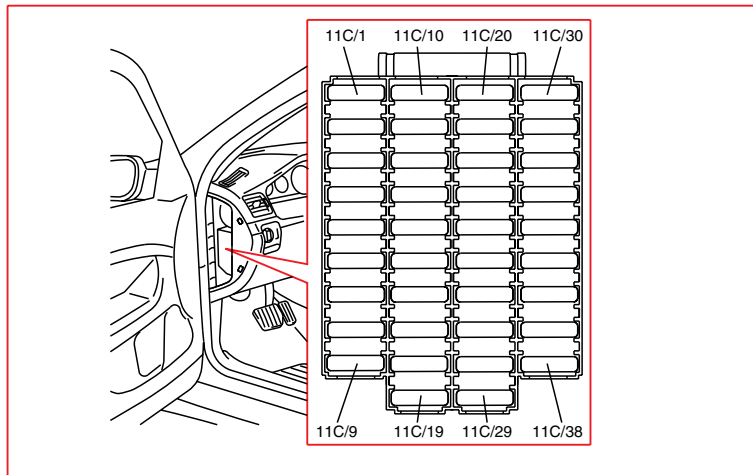


11C Fuses in the passenger compartment

No.	Fuse function	via	A
1	11B/17 Fuses in the engine compartment 11B/18 Fuses in the engine compartment 11C/10 Fuse in passenger compartment fuse box 11C/11 Fuse in passenger compartment fuse box	20/27, 2/62 20/27, 2/62 20/27, 2/152 20/27, 2/152	15
2	11B/20 Fuses in the engine compartment 11B/21 Fuses in the engine compartment	2/63 2/63	20
3	6/16 Driver seat motor, backrest angle 6/17 Driver seat motor, up/down front edge 6/18 Driver seat motor, up/down rear edge 6/19 Driver seat motor, forward/backward	4/52 4/52 4/52 4/52	30
4	6/20 Passenger seat motor, forward/backward 6/64 Passenger seat motor, backrest angle 6/65 Passenger seat motor, up/down front edge 6/66 Passenger seat motor, up/down rear edge	3/27 3/27 3/27 3/27	30
5	4/99 Electronic power steering control module 6/71 Stepper motor, speed-dependent power steering 6/114 Vacuum pump	4/99 8/84	15
6	8/76 Gas tank valve, Bi-Fuel 8/88 Solenoid, gas tan CNG rear 8/89 Solenoid, fuel tank CNG front left 8/90 Solenoid, fuel tank CNG front right	2/140 2/140 2/140 2/140	5
7	9/12 Left seat heater		15
8	9/13 Right seat warmer		15
9	4/16 Brake Control Module (BCM) 4/68 Steering Angle Sensor module SAS		5
	continues		

Fuses

Passenger compartment 11C/10-21

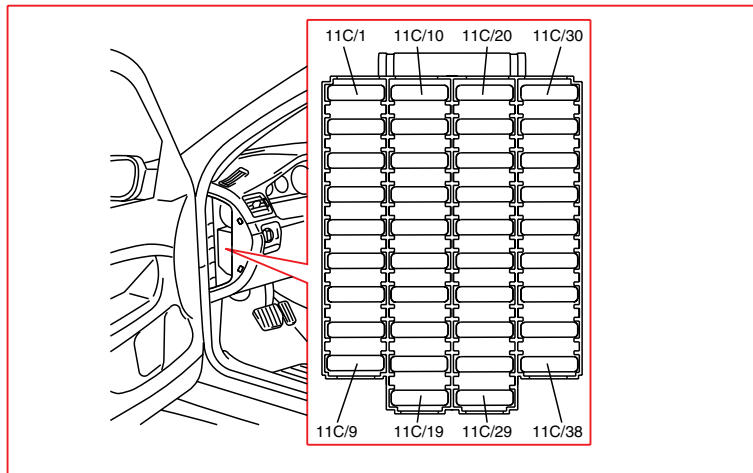


11C Fuses in the passenger compartment

No.	Fuse function	via	A
10	10/1 Left front lamp housing, daytime running lights		10
11	10/2 Right front lamp housing, daytime running lights		10
12	6/3 Right-hand headlight wiper motor 6/4 Left-hand headlight wiper motor 6/38 Left-hand headlight level adjustment motor 6/39 Right-hand headlight adjustment motor		15
13	9/1 Front 12V outlet 9/25 Rear 12V outlet		15
14	3/27 Power passenger seat module		5
15	16/1 Audio Module (AUM) 16/46 RTI Display		5
16	16/1 Audio Module (AUM)		20
17	16/2 Amplifier		30
18	10/5 Front left fog light 10/6 Front right fog light	2/34 2/34	15
19	16/46 RTI Display		10
21	3/156 Gear Selector Module (GSM), Geartronic 4/28 Transmission Control Module (TCM) 8/36 Shift lock solenoid	2/101 2/101 2/101, 3/156	10
	continues		

Fuses

Passenger compartment 11C/22-27

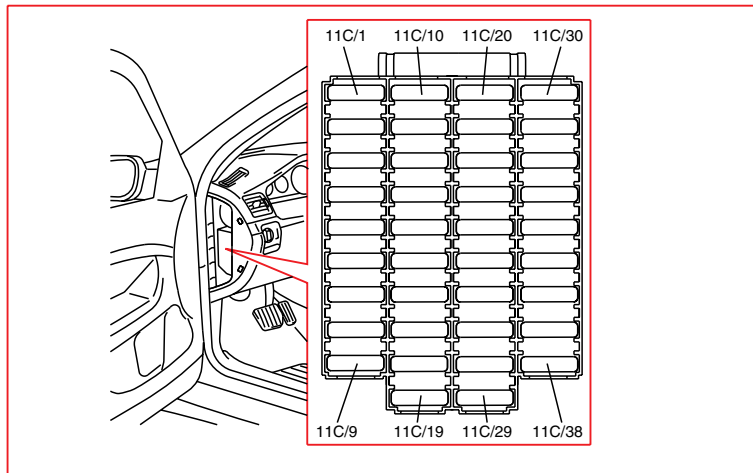


11C Fuses in the passenger compartment

No.	Fuse function	via	A
22	4/56 Central Electronic Module CEM 10/13 Front left direction indicator 10/14 Front right direction indicator 10/15 Front left fender direction indicator 10/16 Front right fender direction indicator 10/47 Rear right direction indicator 10/54 Rear left direction indicator	4/56, 2/32 4/56, 2/34 4/56, 2/32 4/56, 2/34 4/56, 2/34 4/56, 2/32	20
23	3/111 Light Switch Module (LSM) 3/112 Climate Control Module (CCM) 3/130 Steering Wheel Module (SWM) 17/13 Data link connector		5
24	3/112 Climate Control Module (CCM) 4/7 Combustion Preheater Module (CPM) 4/52 Power Seat Module (PSM) 5/1 Driver Information Module (DIM)	2/29 2/29 2/29 2/29	10
25	2/30 X feed overload relay 2/31 15-feed overload relay 2/35 Starter motor relay 4/9 Control module, Supplemental Restraint System (SRS) 4/46 Engine Control Module (ECM) 4/56 Central Electronic Module CEM 16/65 Antenna ring/ignition switch lighting	3/1 3/1 3/1 3/1 3/1 3/1	10
26	6/28 Motor, passenger compartment fan	4/31	30
27	4/84 Suspension Module (SUM)	2/174	15
	continues		

Fuses

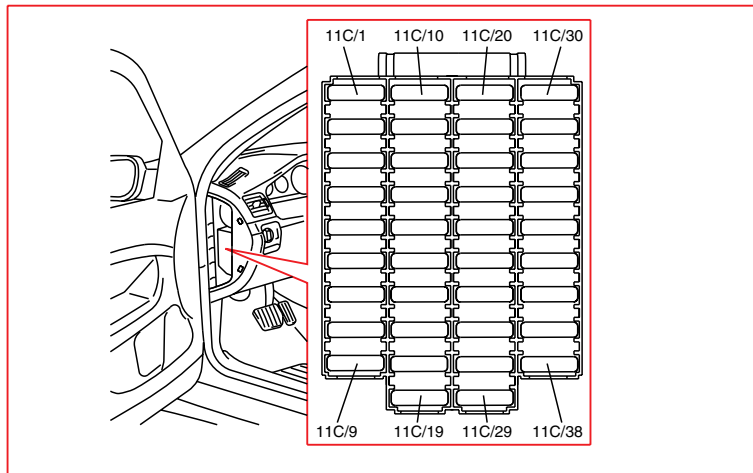
Passenger compartment 11C/28-31



11C Fuses in the passenger compartment

No.	Fuse function	via	A
28	3/117 Dome light control module	4/70	10
	4/70 Upper Electronic Module UEM		
	4/76 Remote control unit for garage door opener		
	7/149 Rain sensor		
	10/25 Ceiling light, cargo compartment		
	10/114 Left-hand vanity mirror lighting		
	10/115 Right-hand vanity mirror lighting		
	10/150 Rear reading light		
29	16/60 Phone Module (PHM)		10
30	10/1 Front left lamp housing, Bi-Xenon electronic unit	20/28 20/28 54/40:1	7,5
	10/11 Position/parking light, front left, EU/OS		
	10/51 Left-hand tail light lamp 1		
	10/52 Left-hand tail light lamp 2		
	10/71 Side marker light, front left, S80		
	10/129 Position/parking light, front left, USA/CDN		
54/51:11 Connector, rear accessory wiring			
31	10/2 Front right lamp housing, Bi-Xenon electronic unit	20/3 20/3 54/40:8, 53/609	7,5
	10/3 License plate lighting		
	10/12 Position/parking light, front right, EU/OS		
	10/42 Position/parking light, rear right		
	10/44 Right-hand tail light lamp 1		
	10/45 Right-hand tail light lamp 2		
	10/49 Rear left position/parking light		
	10/73 Side marker light, front right, S80		
	10/130 Position/parking light, front right, USA/CDN		
	54/51:8 Connector, accessory wiring		
	continues		

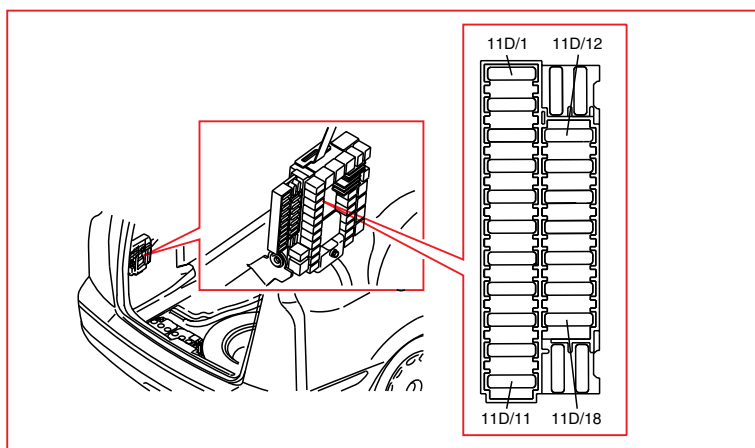
Fuses Passenger compartment 11C/32-38



11C Fuses in the passenger compartment

No.	Fuse function	via	A
32	4/56 Central Electronic Module CEM 11C/38 Fuse in passenger compartment		10
33	4/56 Central Electronic Module CEM 4/83 Fuel pump control module 6/31 Feed pump, ejectors 6/33 Fuel pump	2/33 2/23	15
34	6/15 Sunroof motor	4/33	15
35	3/74 Left-hand front door lock unit 3/126 Driver/Passenger Door Module (DDM/PDM) 6/62 Left-hand power door mirror 9/33 Left-hand heated door mirror 10/148 Left-hand rearview mirror lighting	3/126 3/126 3/126 3/126	25
36	3/75 Right-hand front door lock unit 3/127 Passenger/Driver Door Module (PDM/DDM) 6/63 Right-hand power door mirror 9/34 Right-hand heated door mirror 10/149 Right-hand rearview mirror lighting	3/127 3/127 3/127 3/127	25
37	2/138 Deadlock relay, left-hand rear door 2/139 Deadlock relay, right-hand rear door 3/85 Rear left door power window switch 3/86 Rear right door power window switch 6/92 Motor, rear left power window 6/93 Motor, rear right power window 10/151 Left-hand rear door switch lighting 10/152 Right-hand rear door switch lighting	2/120 2/120 2/116, 2/118 2/117, 2/119 3/85 3/86 2/120 2/120	30
38	16/35 Siren Control Module (SCM)		5

Fuses
Cargo compartment 11D/1-18



11D Fuses in the cargo compartment

No.	Fuse function	via	A
1	4/58 Rear Electronic Module (REM) 10/127 Lighting, cargo compartment, left-hand side 10/128 Lighting, cargo compartment, right-hand side	4/58 4/58	10
2	4/58 Rear Electronic Module (REM) 10/46 Fog light, right rear 10/53 Fog light, left rear 54/51:5 Connector, accessory wiring, rear fog light	4/58 4/58 4/58	10
3	11D/14 Fuses in the cargo compartment 54/51:4 Connector, accessory wiring, brake lights	20/31, 2/79 2/79	15
4	10/48 Right-hand reversing light 10/55 Left-hand reversing light 54/51:12 Connector, accessory wiring, reversing lights	2/80 2/80 2/80	10
5	2/52 Relay, 15l feed, rear 2/82 Relay, heated rear window		5
6	3/78 Trunk lid lock unit	2/67	10
7	8/59 Front right side airbag igniter 8/60 Rear right head restraint solenoid	2/75 2/75	10
8	3/76 Left-hand rear door lock unit 3/77 Right-hand rear door lock unit 6/37 Lock motor, fuel filler flap	2/112, 2/158 2/114, 2/115 2/59, 2/158	15
9	30+ Rear accessory wiring		15
10	16/15 CD changer 16/45 Road Traffic Information (RTI)		10
11	4/78 Accessory Electronic Module AEM		15
14	10/43 Right brake light, S60 10/50 Left brake light, S60		7,5
15	15l+ Rear accessory wiring 4/86 Parking Assistance Module (PAM), S60		20
16	17/19 12V outlet, cargo compartment		15
17	2/142 Relay, preheated fuel filter, Diesel 4/82 Differential Electronic Module (DEM)		7,5
18	9/38 Preheated fuel filter, Diesel	2/142	15