

Volvo V70 Xc70 Xc90 2003 Wiring Diagram

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WIRING DIAGRAM

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V70/XC70 & XC90
2003**

TP 3964202

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| 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 |
| EXC | = Exclusive |
| EXT.D | = Extended electrical distribution |
| HISPEED | = High speed data bus |
| 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 |
| TELE | = Mobile telephone |
| T | = Turbo engine |
| W/O | = Without |
| 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 diagram

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".

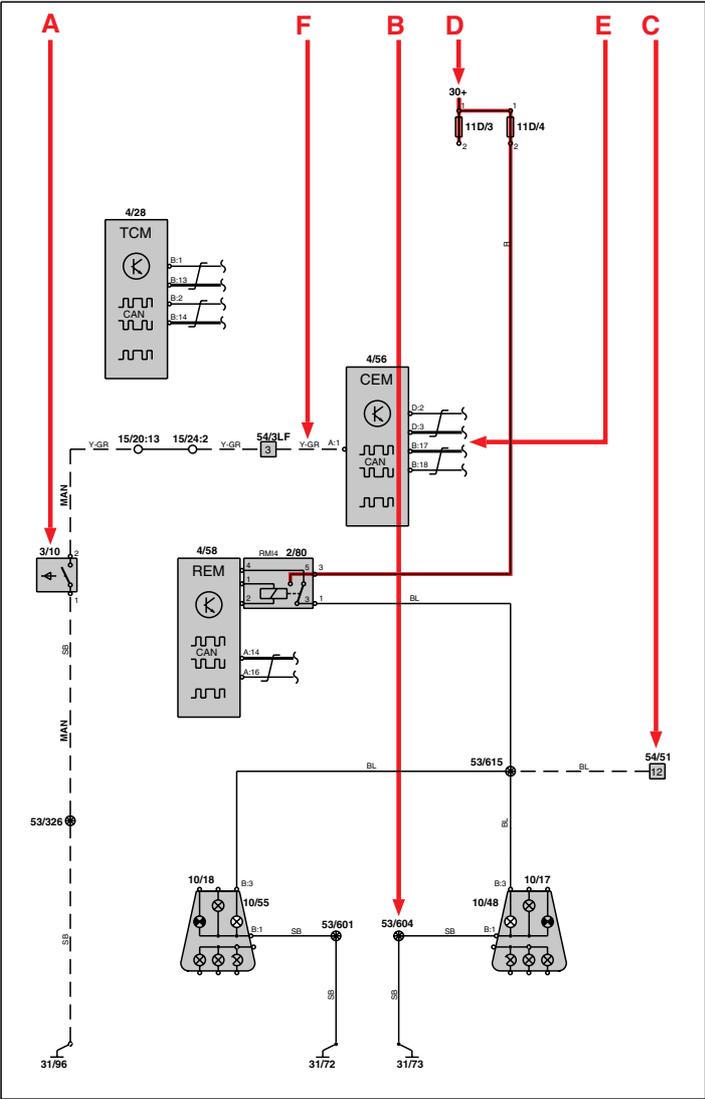
F. Abbreviations

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

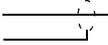
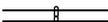
G. Component location

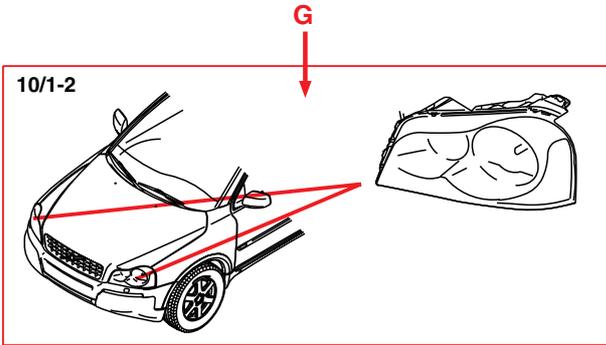
There is a section at the end of the manual in which the appearance and location of components is described in numerical order.

How to use the wiring diagram

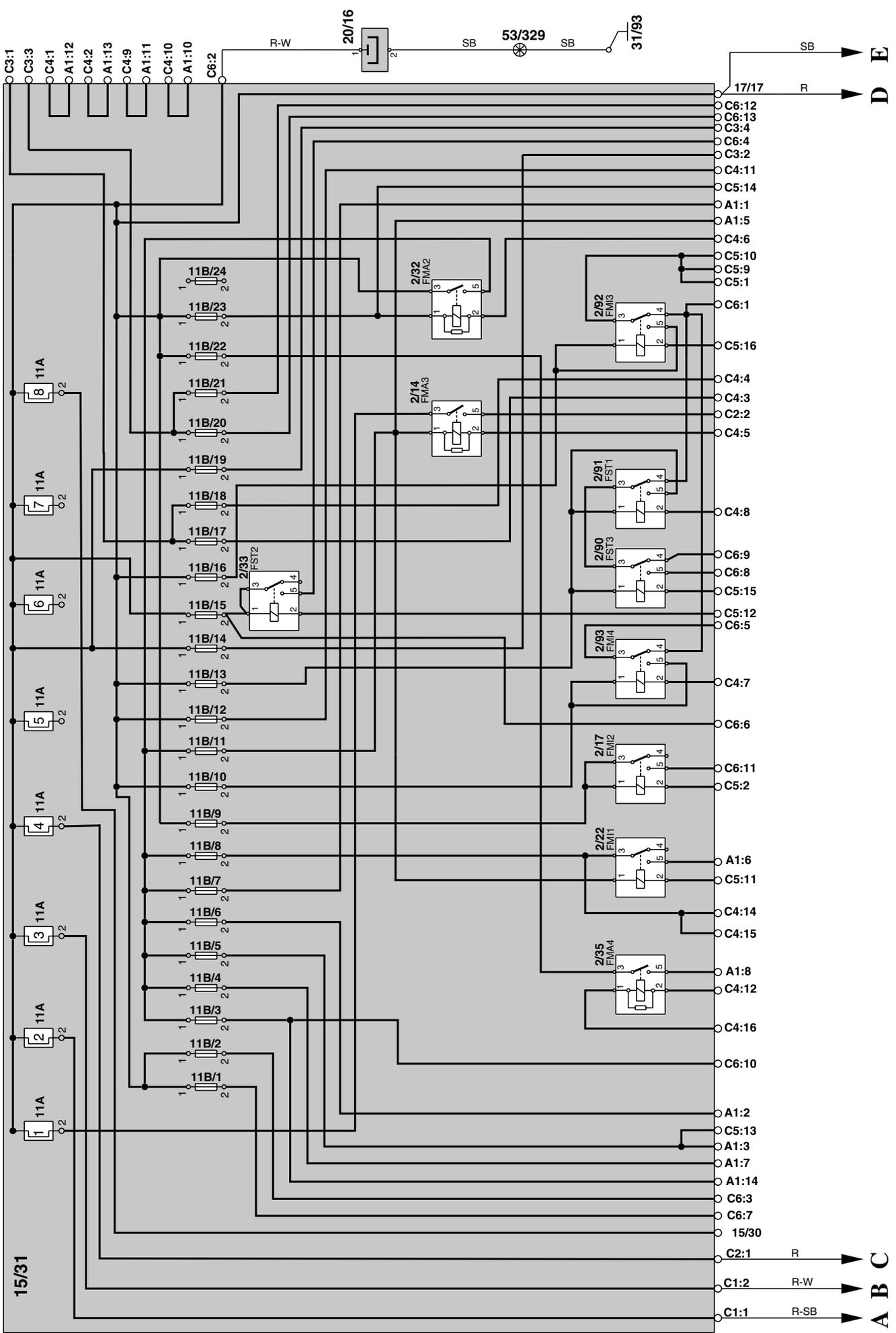


List of symbols

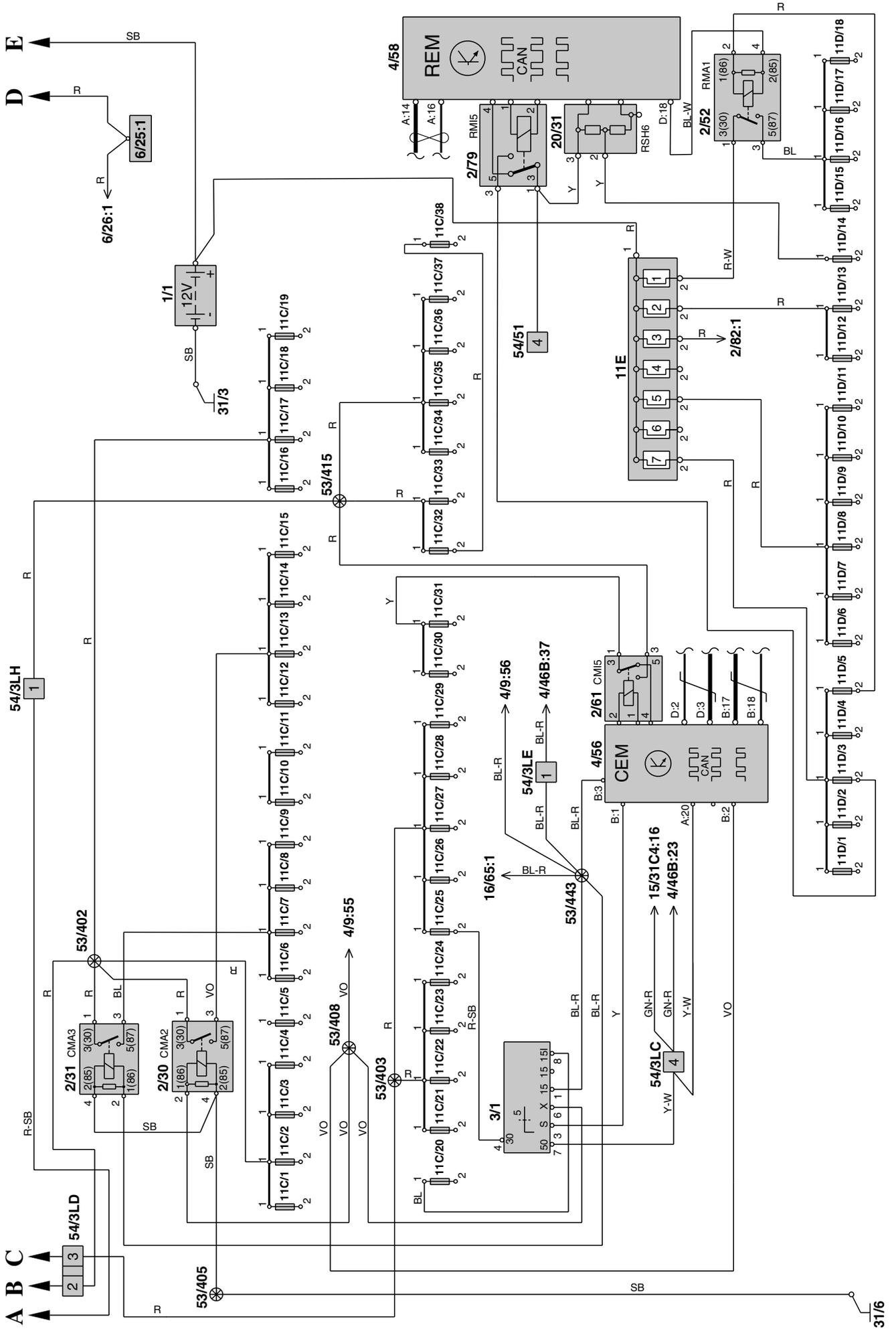
-  = System voltage
-  = Ground connection via wiring
-  = Ground connection on component/chassis
-  = Screened wire
-  = Junction point
-  = Twisted cable
-  = Electrical connection
-  = Variant
-  = CAN communication
-  = CAN high data signal (CAN H)
-  = CAN low data signal (CAN L)
-  = MOST communication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



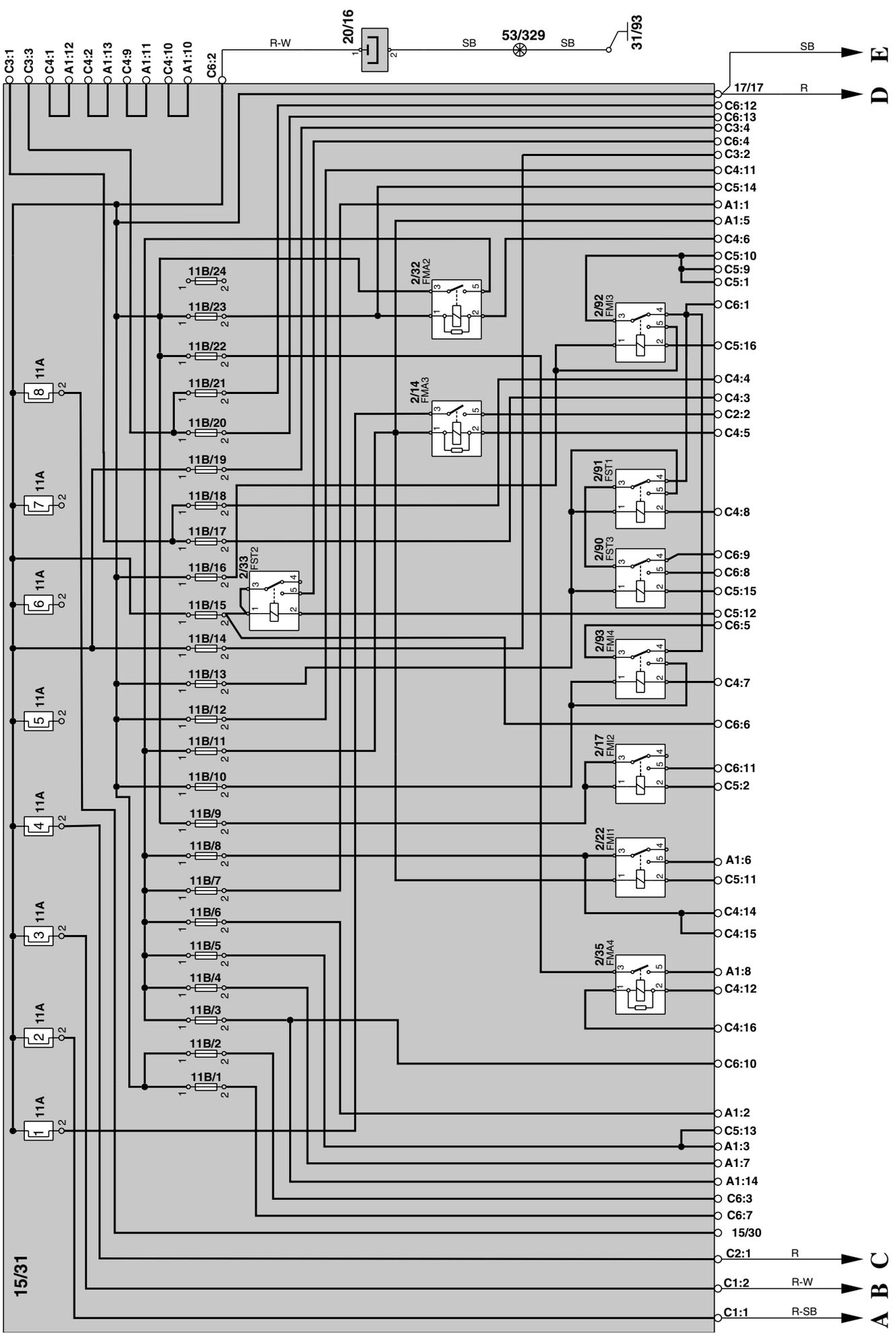
Electrical distribution Overview V70



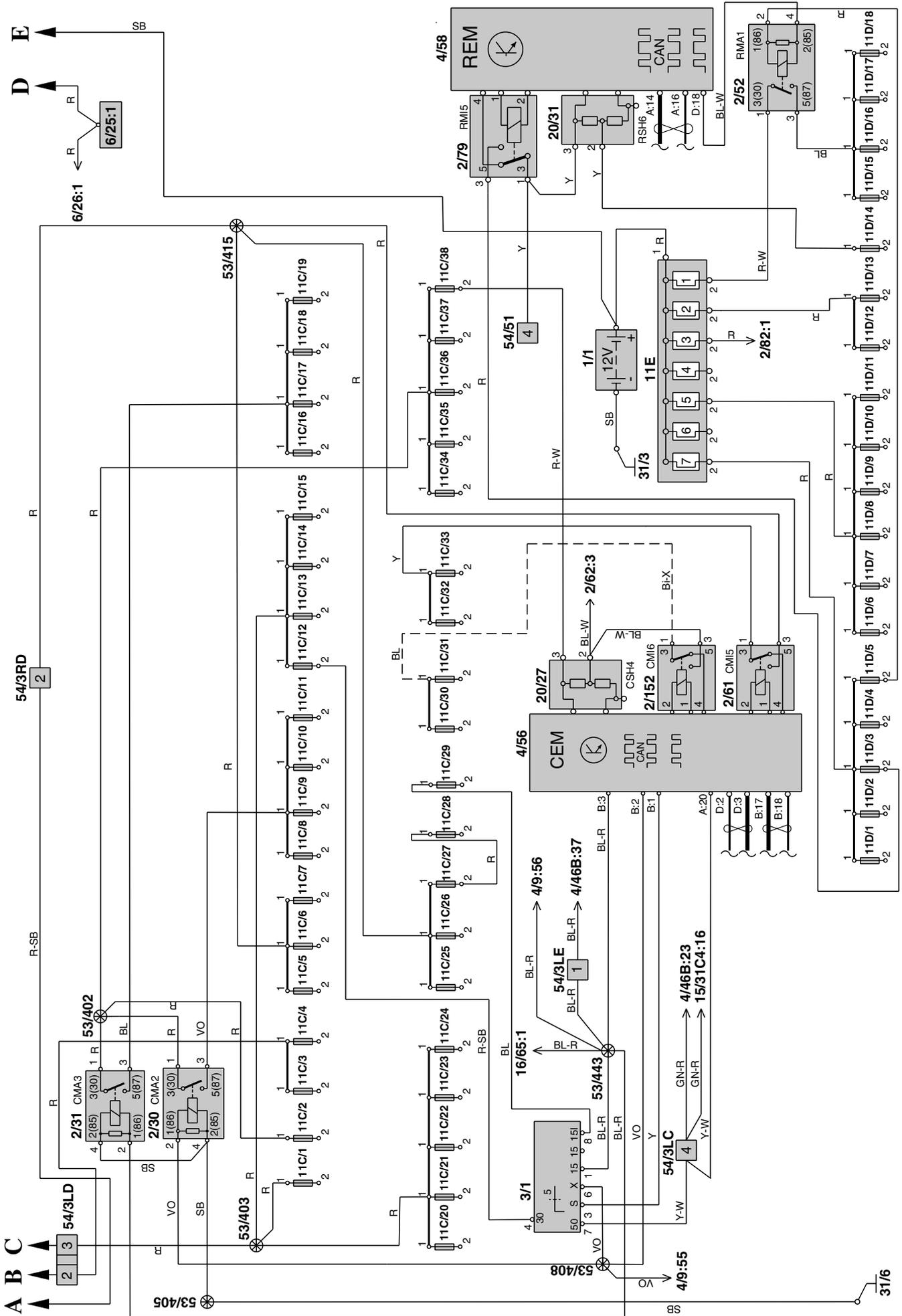
Electrical distribution Overview V70



Electrical distribution Overview XC90

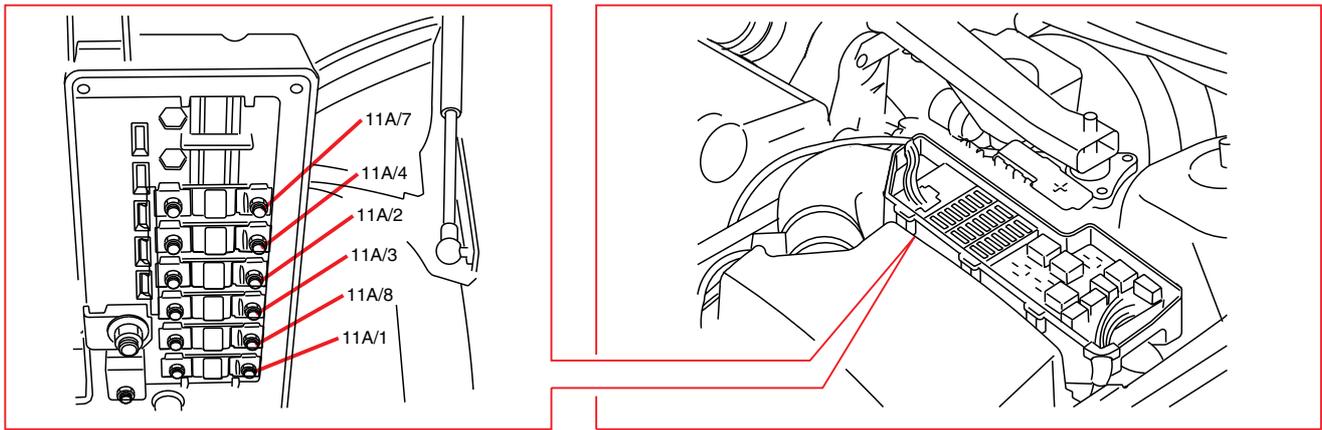


Electrical distribution Overview XC90



Fuses

Engine compartment 11A/1-8

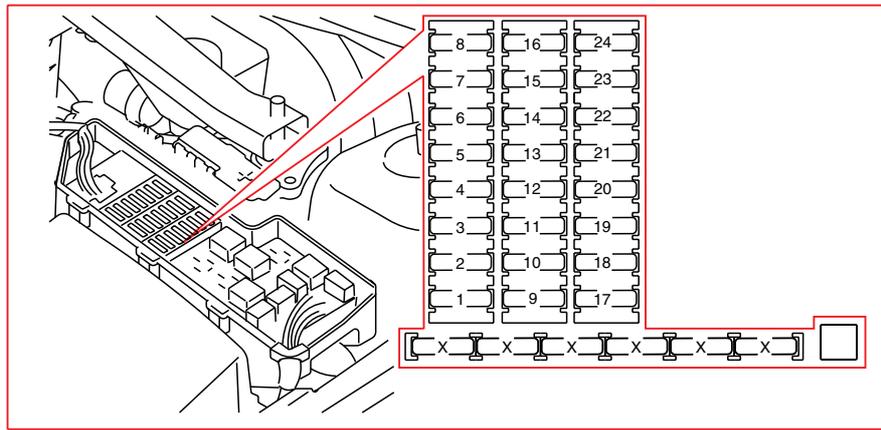


11A Fuses in the engine compartment

| No. | Fuse function | via | A |
|--|--|--------------|-------------------|
| 1 | 20/22-26 Glow plug | 2/14 | 60 |
| 2 | 11C/30-31 Fuse in passenger compartment fuse box, V70 | 2/61 | 60 |
| | 11C/32-33 Fuse in passenger compartment fuse box, V70 | | |
| | 11C/34-37 Fuse in passenger compartment fuse box, V70 | | |
| | 11C/5-7 Fuse in passenger compartment fuse box, XC90 | | |
| | 11C/25-27 Fuse in passenger compartment fuse box, XC90 | | |
| | 11C/32-33 Fuse in passenger compartment fuse box, XC90 | | |
| 3 | 11C/1-4 Fuse in passenger compartment fuse box, V70 | 2/31 2/30 | 60 |
| | 11C/6-9 Fuse in passenger compartment fuse box, V70 | | |
| | 11C/12-15 Fuse in passenger compartment fuse box, V70 | | |
| | 11C/16-19 Fuse in passenger compartment fuse box, V70 | | |
| | 11C/2 Fuse in passenger compartment fuse box, XC90 | 2/30 2/31 | |
| | 11C/3-4 Fuse in passenger compartment fuse box, XC90 | | |
| | 11C/8-11 Fuse in passenger compartment fuse box, XC90 | | |
| | 11C/16-19 Fuse in passenger compartment fuse box, XC90 | | |
| | 11C/34-38 Fuse in passenger compartment fuse box, XC90 | | |
| | 11C/21-24 Fuse in passenger compartment fuse box, V70 | | |
| 11C/25/29 Fuse in passenger compartment fuse box, V70 | | | |
| 11C/1 Fuse in passenger compartment fuse box, XC90 | | | |
| 11C/12-15 Fuse in passenger compartment fuse box, XC90 | | | |
| 8 | 11C/20-24 Fuse in passenger compartment fuse box, XC90 | 4/71 | 60 V70 80 XC90 |
| | 6/29 Motor, electric cooling fan | | |

Fuses

Engine compartment 11B/1-10

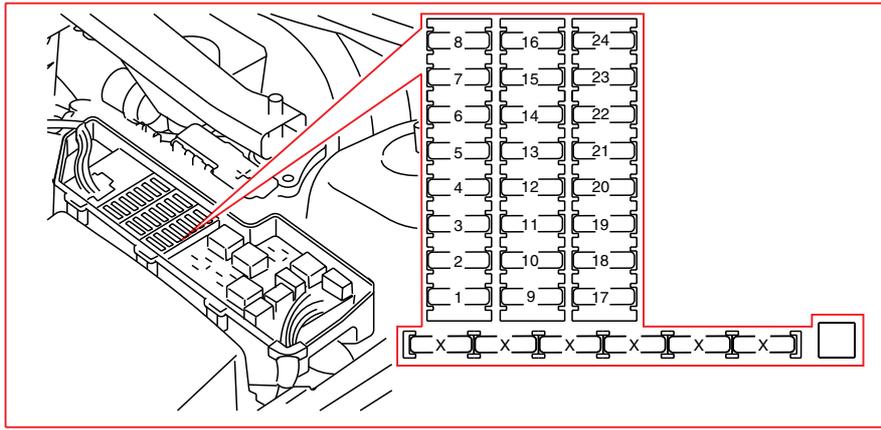


11B Fuses in the engine compartment

| No. | Fuse function | via | A |
|-----------|---|------|----|
| 1 | 4/7 Control module CPM | | 25 |
| 2 | Accessory (auxiliary light) | | 20 |
| 3 | 6/105 Fuel distributor, gas 6/114 Vacuum pump 8/75 Valve, fuel cut-off DFCO | 8/84 | 15 |
| 4 | 4/46 Engine Control Module (ECM), Diesel, CNG/LPG 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 8/18 EVAP valve 8/19 Solenoid, variable valve time, inlet 8/28 Turbocharger control valve 8/81 Solenoid, variable valve timing outlet 9/32 PTC resistor, air preheating, Gasoline | | 10 |
| 6 | 7/17 Mass airflow sensor (MAF), Diesel | | 5 |
| | 4/46 Engine Control Module (ECM), Gasoline | | 15 |
| | 8/6-11 Injectors | | |
| | 7/17 Mass airflow sensor (MAF), Gasoline | | |
| 7 | 4/46 Engine Control Module (ECM), V70 | | 10 |
| | 4/50 Electronic Throttle Module (ETM), V70 | | |
| 8 | 6/44 Cooling fan, electrics box, engine compartment | | 10 |
| | 7/51 Accelerator pedal sensor | | |
| | 8/3 Electromagnetic clutch, climate control system | 2/22 | |
| 9 | 2/17 Horn relay | | 15 |
| | 16/10 Horn | 2/17 | |
| | 16/11 Horn 2, V70 | 2/17 | |
| 10 | 2/93 Relay, rear window washer motor | | 10 |
| | 6/30 Washer pump, rear window | 2/93 | |
| continues | | | |

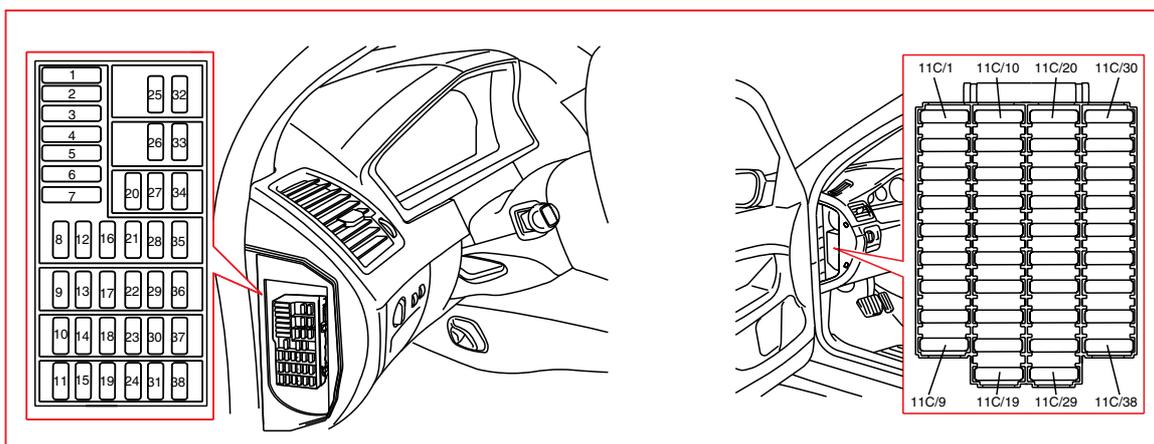
Fuses

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 8/64 Solenoid valve, engine mounting 8/82 Solenoid, variable turbo geometry 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 | 8/79 LPG valve, V70 2/33 Fuel system relay, V70 | | 15 |
| | 2/33 High pressure wash relay, XC90 6/104 High pressure wash, headlights, XC90 | 2/33 | 25 |
| 16 | 2/92 Relay, windshield washer motor 6/2 Windshield washer pump 6/3 Right-hand headlight wiper motor, V70 6/4 Left-hand headlight wiper motor, V70 | 2/92 | 15 |
| 17 | 10/66 Right-hand low beam Bi-Xenon, right | | 10 |
| 18 | 10/70 Left-hand 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 |



11C Fuses in the passenger compartment

| No. | Fuse function | via | A |
|---|--|--------------------|----|
| 1 | 11B/17-18 Fuse in engine compartment fuse box, V70 | 20/27, 2/62 | 15 |
| | 6/28 Motor, passenger compartment fan, XC90 | 4/31 | 30 |
| 2 | 11B/20-21 Fuse in engine compartment fuse box, V70 | 2/63 | 20 |
| | 16/105 Audio control module AUD, XC90 | | 30 |
| 3 | 4/52 Power driver seat module PSM | | 30 |
| 4 | 3/27 Power passenger seat module | | 30 |
| 5 | 3/74 Front left door lock unit, XC90 | 3/126 | 25 |
| | 6/62 Left-hand power door mirror, XC90 | 3/126 | |
| | 9/33 Left-hand heated door mirror, XC90 | 3/126 | |
| | 6/58 Front left power window motor, XC90 | 3/126 | |
| | 10/148 Left-hand door mirror lighting, XC90 | 3/126 | |
| 6 | 8/76 Gas tank valve, V70 | 2/140 | 5 |
| | 8/88 Solenoid, rear CNG fuel tank, V70 | 2/140 | |
| | 8/89 Solenoid, front left CNG fuel tank, V70 | 2/140 | |
| | 8/90 Solenoid, front right CNG fuel tank, V70 | 2/140 | |
| | 3/75 Lock unit, front right door, XC90 | 3/127 | 25 |
| | 6/63 Right-hand power door mirror, XC90 | 3/127 | |
| | 9/34 Right-hand heated door mirror, XC90 | 3/127 | |
| | 6/60§ Front right power window motor, XC90 | 3/127 | |
| | 10/149 Right-hand door mirror lighting, XC90 | 3/127 | |
| | | | |
| 7 | 9/12 Left seat heater, V70 | | 15 |
| | 2/138 Deadlock relay, left rear door, XC90 | 2/120 | 30 |
| | 2/139 Deadlock relay, right rear door, XC90 | 2/120 | |
| | 3/85 Left rear door power window switch, XC90 | 2/120 | |
| | 3/86 Right rear door power window switch, XC90 | 2/120 | |
| | 6/92 Left rear power window motor, XC90 | 3/85, 2/116, 2/118 | |
| | 6/93 Right rear power window motor, XC90 | 3/86, 2/117, 2/119 | |
| | 10/151 Switch illumination, left rear door, XC90 | 2/120 | |
| 10/152 Switch illumination, right rear door, XC90 | 2/120 | | |
| 8 | 9/13 Right seat heater, V70 | | 15 |
| continues | | | |