

Volvo Supplement S80 07 2007 Wiring Diagram

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VOLVO S80 (07-)

WIRING DIAGRAM 2007 SUPPLEMENT



TP 39119202 LATE DESIGN

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 2006

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.

Order number: TP 39119202 This publication contains updated information for 2007 models, late design, for other electrical systems see the publication TP 39100202.

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 |
| BLIS | = Blind spot information system |
| CAN | = CAN communication |
| DPY | = Display |
| ECC | = Electronic climate control system |
| ETA | = Electronic throttle actuator |
| GDL | = Gas discharge lamp |
| HISPEED | = High speed data bus |
| IR | = Infrared sensor |
| I5D | = 5-Cylinder engine, Diesel |
| LIN | = LIN communication |
| LH | = Left-hand side |
| LHD | = Left-hand drive |
| MAN | = Manual transmission |
| MEMORY | = Memory driver's seat |
| MIDSPEED | = Midspeed data bus |
| MMS | = Mass movement sensor |
| PEM | = Fuel pump control module |
| PETROL | = Gasoline |
| RH | = Right-hand side |
| RHD | = Right-hand drive |
| SCR | = Screening |
| SRS | = Airbag |
| T | = Turbo engine |
| W/O | = Without |
| 2WD | = Two wheel drive |
| 5CYL, I5 | = 5-cylinder engine |
| 6CYL, I6 | = 6-cylinder engine |
| 8CYL, V8 | = 8-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 |

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".

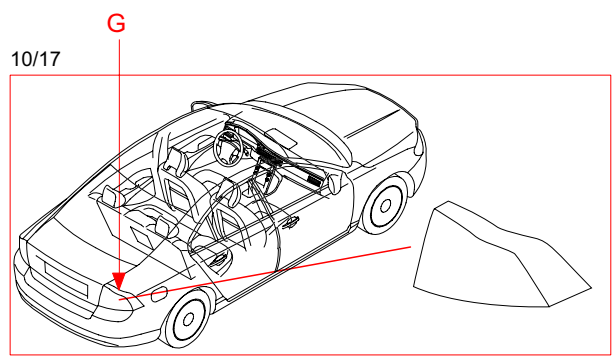
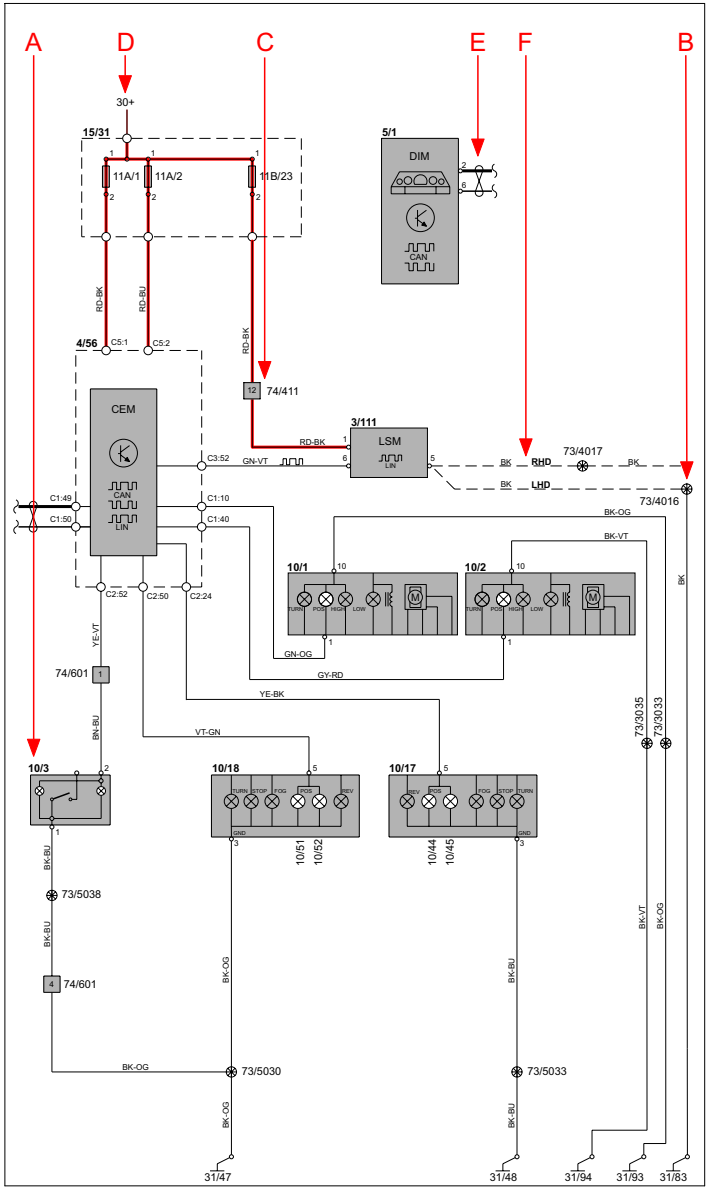
F. Abbreviations

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

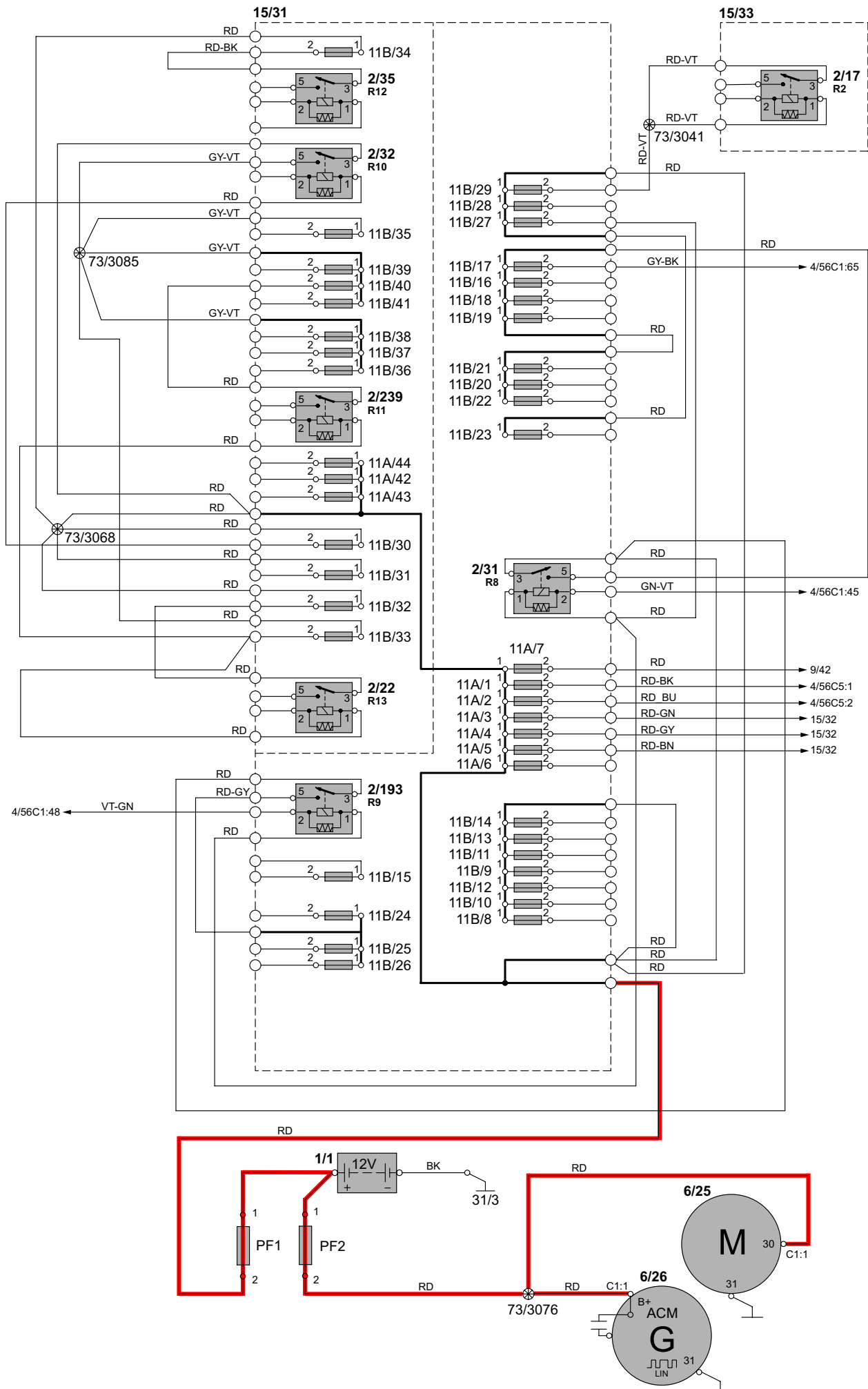


List of symbols

- = System voltage
- = Ground connection via cable
- = 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...
- 1 = Connector between cable harnesses
- 1 = Connector connected in component

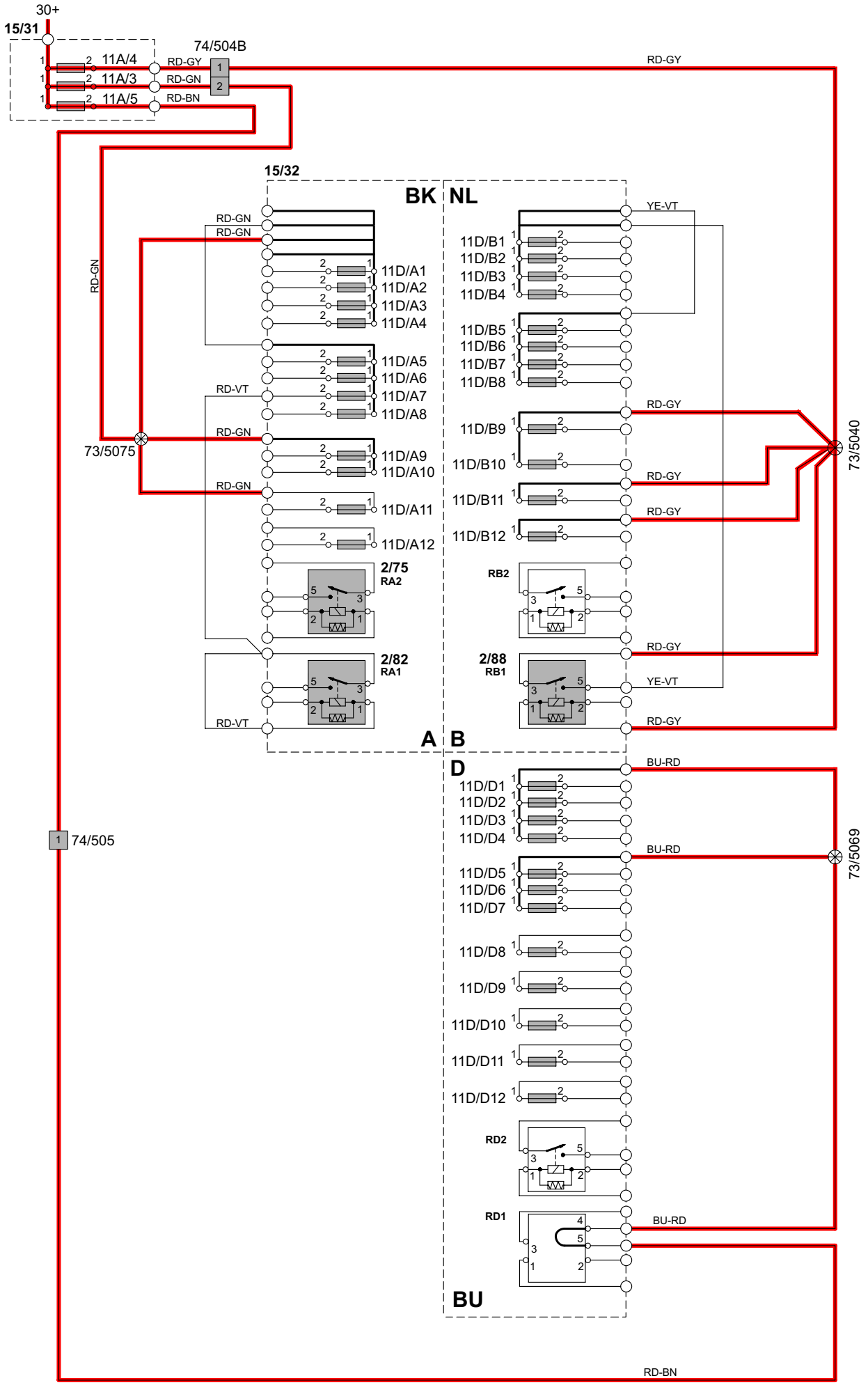
Electrical distribution 1:2

Overview, underhood electrical center and cold zone in engine compartment



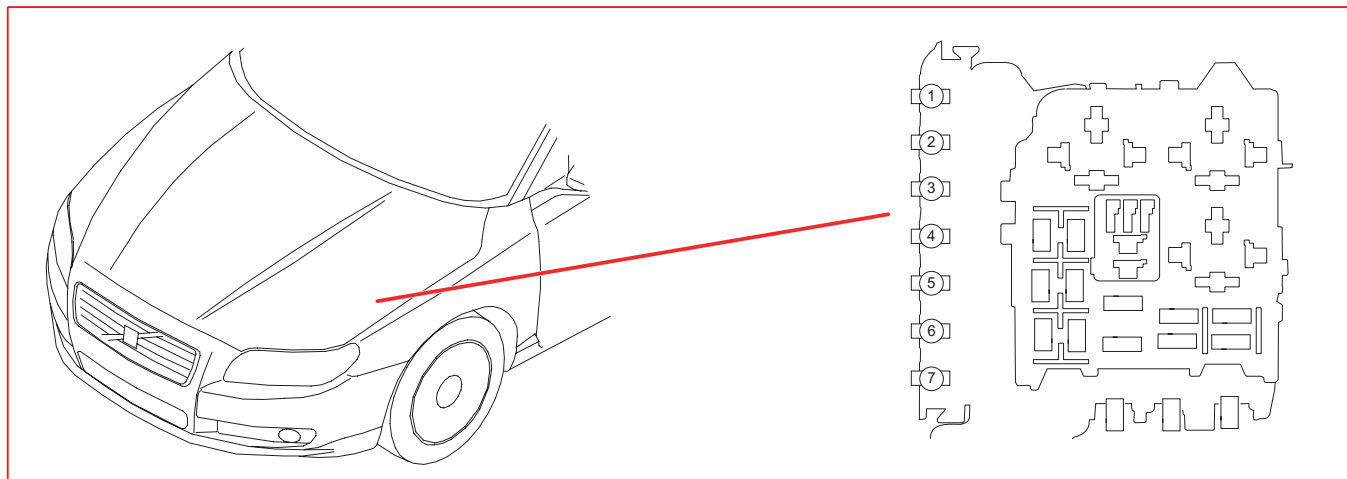
Electrical distribution 2:2

Overview, rear electrical center



Fuses

Underhood electrical center F1-F7



15/31 Engine compartment distribution box

| No. | No. | Fuse function | via | A |
|-----------|-------|---|------|-----|
| F1 | 11A/1 | Main fuse for fuses in CEM | 4/56 | 60 |
| F2 | 11A/2 | Main fuse for fuses in CEM | 4/56 | 60 |
| F3 | 11A/3 | 11D/A1-11D/A11 Fuses in cargo compartment 15/32 | - | 60 |
| F4 | 11A/4 | 11D/B1-11D/B12 Fuses in cargo compartment 15/32 | - | 60 |
| F5 | 11A/5 | 11D/D1-11D/D7 Fuses in cargo compartment 15/32 | - | 50 |
| F7 | 11A/7 | 9/42 PTC element | - | 100 |
| continues | | | | |