Volvo Supplement C30 S40 04 V50 C70 06 2009 Wiring Diagram

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VOLVO C30, S40 (04-), V50 & C70 (06-)

WIRING DIAGRAM 2009 SUPPLEMENT

TP 39139202 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 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 June 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 39139202

Can be ordered from Technical Information Shop (TIS) at www.volvocarstechinfo.ford.com/vss We retain the right to make modifications.

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Explanations Abbreviations

Groups
Group 23

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

Designations ignition switch

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

ACC = Accessories
Ag = Silver plated
Au = Gold plated

AUTO = Automatic transmission

AWD = All wheel drive
CAN = CAN communication

D = Diesel
DPY = Display

ECC = Electronic climate control system

= Engine throttle body ETA EXT. X = Extended X-feed = Gas discharge lamp GDL 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 = Mass Movement Sensor MMS

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 = Brown BN BU, BL = Blue GN = Green GY, GR = Gray LGN = Light Green OG, OR = Orange PK, P = Pink = Red RD, R 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
- 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".

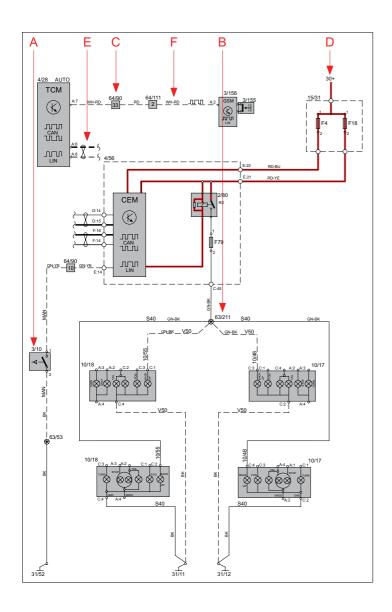
F. Abbreviations

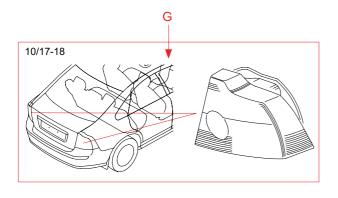
A number of different abbreviations are used in the manual. These are explained in the section "Abbreviations".

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 ς = CAN communication = MOST communication = MOST communication = Connection with distribution box = Further connection to.

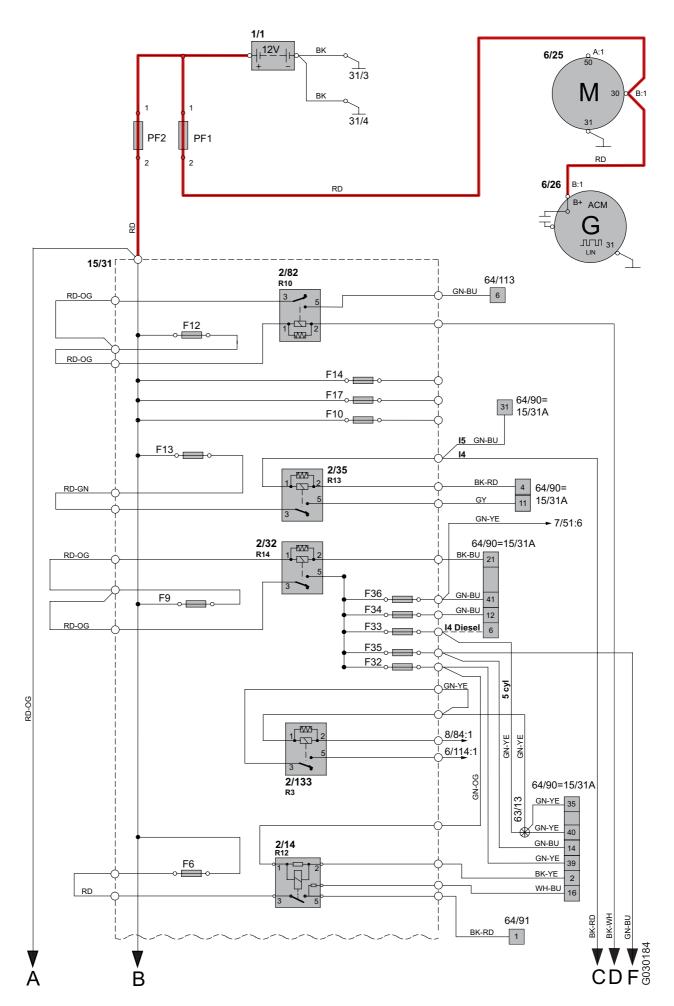
> = Connector between cable harnesses

1

= Connector connected in 1 component

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Electrical distribution 1:2 Overview



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