



**Volvo S60**  
(2004-2005)



**Wiring Diagrams and Electric Model Year 2005**

**VOLVO**  
for life



VOLVO  
**WIRING DIAGRAM S60/S60R/S80**

TP 3976202

**2005**

# Table of Contents 1:2

Vehicles with SRS (Airbag)/SIPS bag/ IC (Inflatable curtain) .....	2
Abbreviations .....	5
How to use the wiring diagrams 1:2.....	6
Electrical distribution 1:2.....	8

## Fuses

Engine compartment 11A/1-8.....	10
Engine compartment 11B/1-6.....	11
Engine compartment 11B/8-23.....	12
Passenger compartment 11C/1-7.....	13
Passenger compartment 11C/8-13.....	14
Battery 11E/1-7.....	15
Central Electronic Module (CEM) F1-F16.....	16
Central Electronic Module (CEM) F17-F34.....	17
Rear Electronic Module (REM) F1-F19.....	18
Rear Electronic Module (REM) F20-F38.....	19

## Relays

Ignition switch and relays.....	20
Engine compartment FMA2 - FST3.....	21

## Ground connections

Overview.....	22
31/1 - 31/44.....	23
31/46 - 31/67.....	24
31/70 - 31/83.....	25
31/84 - 31/91.....	26
31/93.....	27
31/94 - 31/102.....	28
31/120.....	29

## Control modules

Overview of locations.....	30
Overview of designations.....	31
Central Electronic Module (CEM) 1:2.....	32
Rear Electronic Module (REM) 1:2.....	34
High speed CAN data communication.....	36
Low speed CAN data communication.....	37
LIN data communication 1:2.....	38

## Group 23 Fuel system

Engine management system, 5-cyl 1:2.....	40
Engine management system, 5-cyl Turbo 1:2.....	42
Engine management system, 6-cyl 1:2.....	44
Engine management system, Bi-fuel 1:2.....	46
Engine management system, Diesel 1:2.....	48
Emission control, 5-cyl.....	50
Emission control, 5-cyl & 6-cyl Turbo.....	51

## Group 26 Cooling system

Cooling fan.....	52
------------------	----

## Group 27 Engine control

Cruise control.....	53
---------------------	----

## Group 32 Alternator and voltage regulator

Power supply.....	54
-------------------	----

## Group 33 Starting system

Starting system.....	55
----------------------	----

## Group 35 Lighting

High and low beam (Bi-Xenon) & Daytime running lights S60.....	56
High and low beam (Bi-Xenon) & Daytime running lights S80.....	57
High and low beam S80.....	58
Fog lights.....	59
Brake lights.....	60
Reversing lights.....	61
Position/parking lights, tail lights & license plate lighting S60.....	62
Position/parking lights, tail lights & license plate lighting S80.....	63
Home safe lighting.....	64
Interior lighting.....	65
Beam length adjustment.....	66
Auxiliary light.....	67

## Group 36 Additional electrical equipment

Rain sensor.....	68
Direction indicator and hazard warning flashers.....	69
Wiper/washer, windshield.....	70
Wiper/washer, headlights.....	71
High pressure headlight washer.....	72
Horn.....	73
Electronic immobilizer.....	74
Anti-theft alarm.....	75
Accessory Electronic Module (AEM) 1:2.....	76
Parking assistance.....	78

## Group 37 Wiring and fuses

Diagnostics system.....	79
12V outlet.....	80
12V outlet, cargo compartment.....	81
Towbar cable harness, 4-pin.....	82
Towbar cable harness, 7-pin.....	83
Towbar cable harness, 13-pin.....	84

## Group 38 Instruments

Seat belt reminder.....	85
Driver information module.....	86
Driver information module, Bi-Fuel.....	87

## Group 39 Other

Audio with auxiliary amplifier 1:2.....	88
Audio.....	90
Cellular phone.....	91
Road Traffic Information (RTI).....	92
Road Traffic Information (RTI) and CD changer.....	93
Handsfree.....	94
CD changer.....	95
Audio adapter cable harness.....	96

## Table of Contents 2:2

### Group 43 Transmission

Automatic transmission AW55-50SN/AW50AWD .....	97
Automatic transmission 4T65EV.....	98
Geartronic.....	99
Shift lock.....	100
Differential Electronic Module (DEM).....	101

### Group 59 Brake system

Brake control system.....	102
---------------------------	-----

### Group 64 Steering

Electronic power steering.....	103
--------------------------------	-----

### Group 76 Shock absorbers

Four-C .....	104
--------------	-----

### Group 83 Doors and openings

Central locking.....	105
Power windows.....	106
Power sunroof.....	107

### Group 84 Exterior decorative elements etc.

Power door mirrors .....	108
Heated door mirrors.....	109
Heated rear window.....	110

### Group 85 Interior equipment

Power driver's seat .....	111
Power passenger seat.....	112
Heated seats.....	113

### Group 87 Climate controls

Climate control system 1:2.....	114
Parking heater, auxiliary heater .....	116
Relay, electric engine heater .....	117
Parking heater, Call start .....	118
Parking heater, remote start .....	119
Short stop heater .....	120

### Group 88 Internal equipment

Supplemental Restraint System (SRS).....	121
Electrically adjustable head restraint .....	122
Remote garage door opener.....	123

### Connectors..... 124

### Junction points .....142

### Cable harness routing in vehicle

Engine harness, Gasoline.....	151
Engine harness, Diesel.....	152
Engine compartment harness LHD.....	153
Engine compartment harness RHD .....	154
Passenger compartment harness LHD.....	155
Passenger compartment harness RHD .....	156
Cargo compartment harness .....	157
Roof harness .....	158
Trunk lid harness .....	159
Door harness .....	160
Bi-Fuel harness.....	161

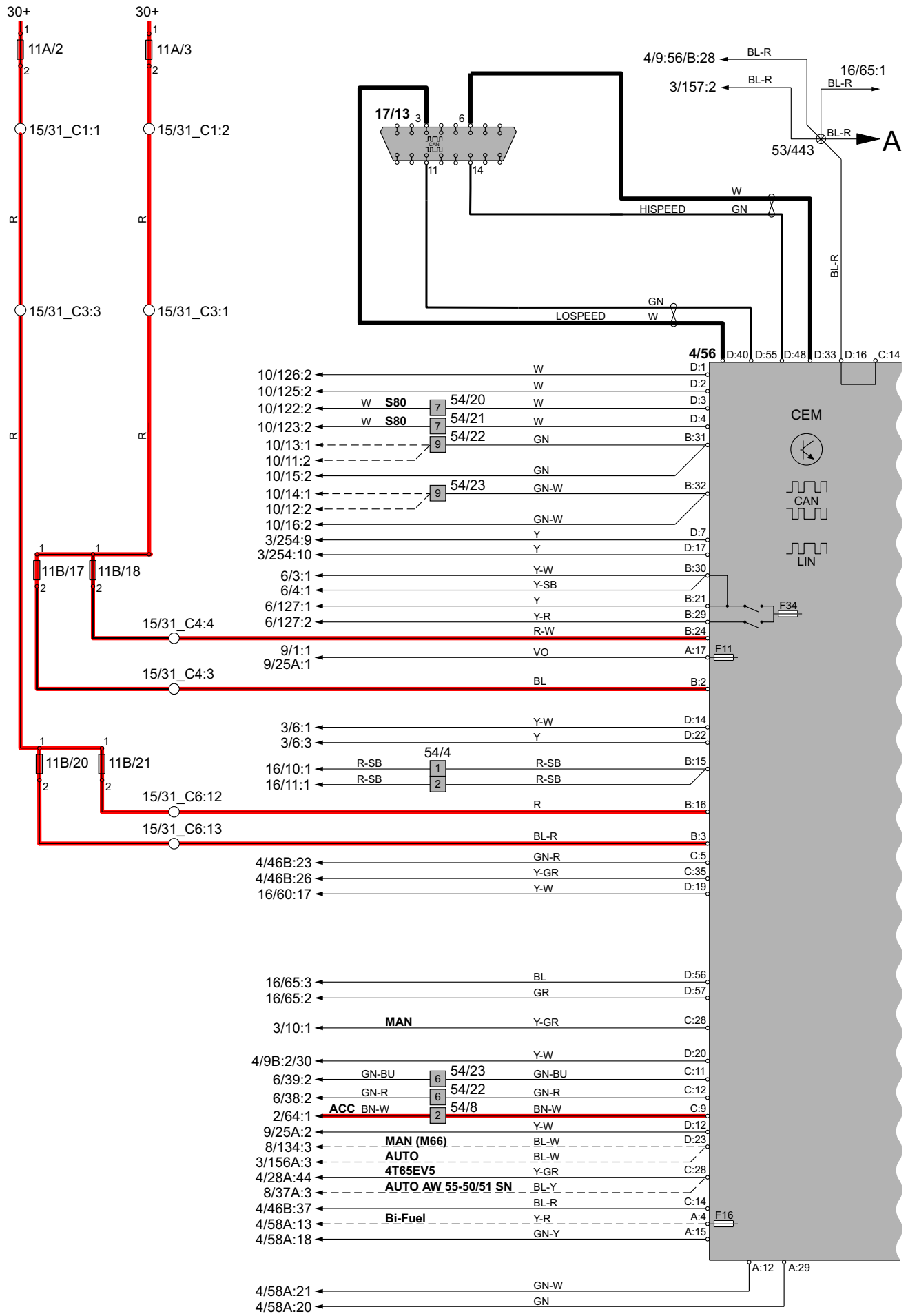
### Component illustrations .....162

### Index ..... 208

### List of components 1:4 .....210

# Control modules

## Central Electronic Module (CEM) 1:2



# Cable harness routing in vehicle

## Engine harness, Gasoline

