



Volvo S80 Typ TS
(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 points142

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

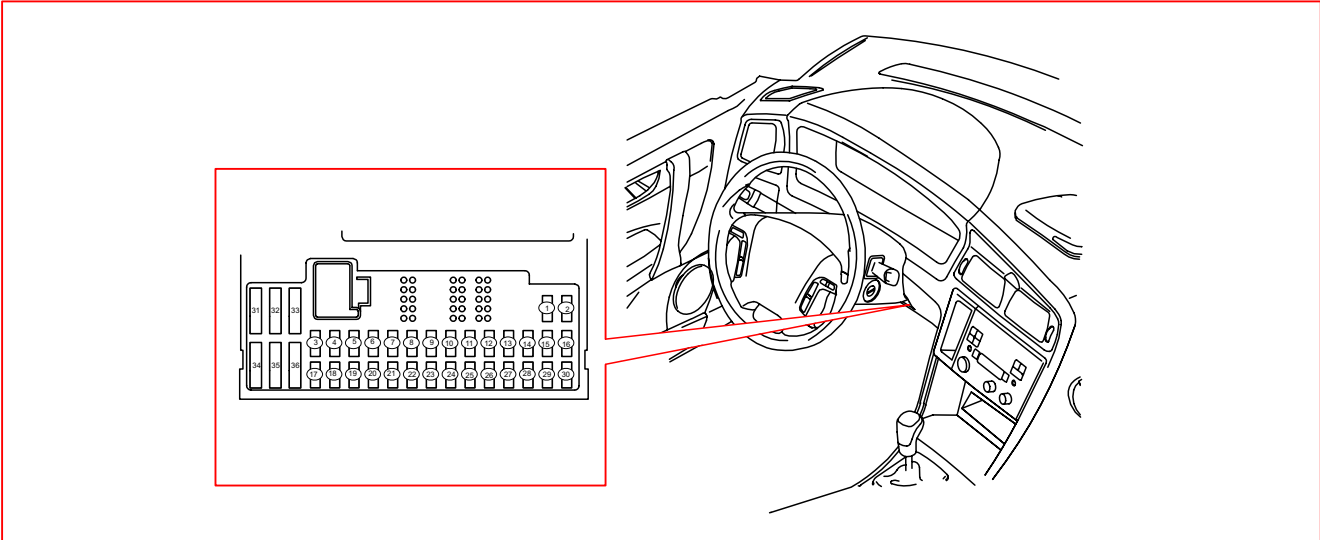
Component illustrations162

Index 208

List of components 1:4210

Fuses

Central Electronic Module (CEM) F1-F16

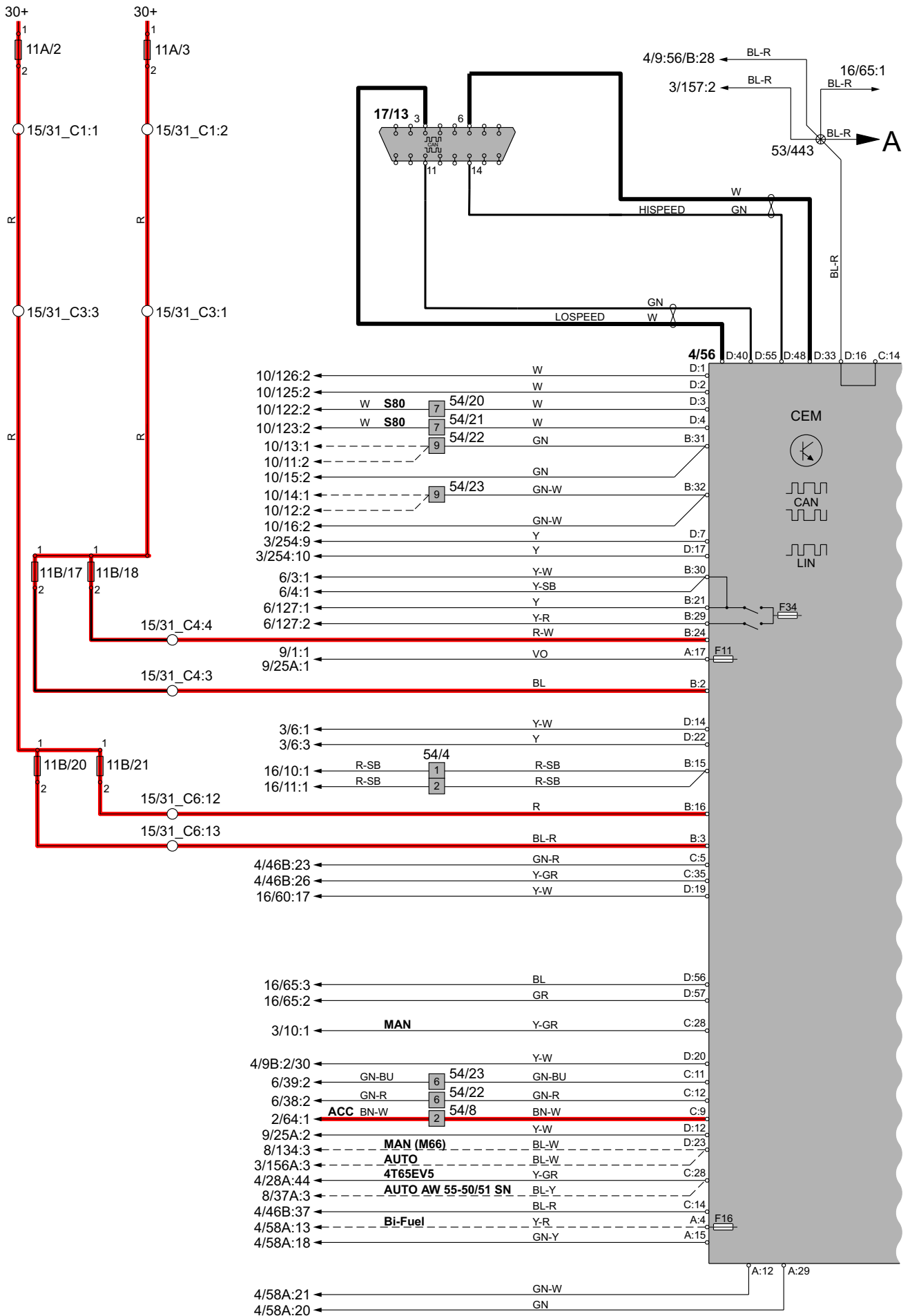


4/56 Central Electronic Module (CEM)

No.	Fuse function	via	A
F1	9/13 Seat Heater Module (SHM), passenger side	-	15
F2	9/12 Seat Heater Module (SHM), driver's side	-	15
F3	16/10 Horn 1 16/11 Horn 2	- -	15
F8	16/35 Siren Control Module (SCM)	-	5
F9	3/9 Brake light contact	-	5
F10	3/112 Climate Control Module (CCM) 4/7 Combustion Preheater Module (CPM) 4/52 Power Seat Module (PSM) 5/1 Driver Information Module (DIM) 6/95 Damper Motor Module (DMM), left-hand side 6/96 Damper Motor Module (DMM), right-hand side 6/102 Damper Motor Module (DMM), defroster 6/48 Damper Motor Module (DMM), recirculation 6/69 Damper Motor Module (DMM) 6/103 Damper Motor Module (DMM), floor/ventilation 7/159 Air Quality Sensor (AQS)	- - - - - - - - - - -	10
F11	9/1 Front 12V outlet 9/25 Rear 12V outlet	- -	15
F14	6/3 Right-hand headlight wiper motor, S80, S60R 6/4 Left-hand headlight wiper motor, S80, S60R	- -	15
F15	4/16 Brake control module (BCM)	-	5
F16	4/99 Electronic power steering control module 8/76 Gas tank valve 8/88 Solenoid, gas tank CNG rear 8/89 Solenoid, fuel tank CNG front left 8/90 Solenoid, fuel tank CNG front right 6/38 Left-hand headlight level adjustment motor 6/39 Right-hand headlight adjustment motor 10/1 Left front lamp housing, Bi-Xenon 10/2 Right front lamp housing, Bi-Xenon	- 4/58 4/58 4/58 4/58 - - - -	10
continues			

Control modules

Central Electronic Module (CEM) 1:2



Cable harness routing in vehicle

Engine harness, Gasoline

