



Volvo V70
(2007-2008)



Wiring Diagrams and Electric Model Year 2008

VOLVO V70 (-08) & XC90
WIRING DIAGRAM 2008



TP 39113202

Table of Contents 1:3

Vehicles with SRS (Airbag)/SIPS bag/IC (Inflatable Curtain)	2
Explanations	7
Abbreviations	7
How to use the wiring diagrams 1:2	8
Electrical distribution V70 1:2	10
Electrical distribution XC90 1:2.....	12
 Fuses	
Engine compartment 11A/1-5	14
Engine compartment 11B/1-11	15
Engine compartment 11B/12-14	16
Engine compartment 11B/15	17
Engine compartment 11B/16-20	18
Passenger compartment 11C/1-4	19
Passenger compartment 11C/5-7	20
Passenger compartment 11C/8-10.....	21
Passenger compartment 11C/11-14.....	22
Passenger compartment 11O/1-2.....	23
Cargo compartment 11E/1-7	24
Cargo compartment 11L/1	25
Cargo compartment 11M/1-2.....	26
Central Electronic Module (CEM) F1-F14.....	27
Central Electronic Module (CEM) F15-F34.....	28
Rear Electronic Module (REM) F1-F7	29
Rear Electronic Module (REM) F8-F28	30
Rear Electronic Module (REM) F29-F38	31
 Relays	
Ignition switch and relays.....	32
Engine compartment FMA1 - FST3	33
Other relays	34
 Ground connections	
Overview.....	35
31/1 - 31/44	36
31/46 - 31/67	37
31/70 - 31/73	38
31/83 - 31/84	39
31/88 - 31/91	40
31/93 - 31/94	41
31/95 - 31/100	42
31/102 - 31/121	43
 Control modules	
Overview positions V70	44
Overview designations V70	45
Overview positions XC90.....	46
Overview designations XC90	47
Central Electronic Module (CEM) 1:2	48
Rear Electronic Module (REM) 1:2	50
Data communication high speed CAN V70.....	52
Data communication high speed CAN XC90	53
Data communication low speed CAN V70	54
Data communication low speed CAN XC90	55
Data communication LIN 1:2.....	56
Data communication MOST XC90.....	58
 Group 23 Fuel system	
Engine management system, Diesel 1:3	59
Engine management system, 5-cyl. 1:2.....	62
Engine management system, 5-cyl. Turbo 1:2	64
Engine management system, 6-cyl. 1:2.....	66
Engine management system, Bi-Fuel 1:2	68
Engine management system, 8-cyl. 1:2.....	70
Emission control, 5-cyl.....	72
Emission control, 5-cyl. Turbo	73
Emission control, 6-cyl.....	74
Emission control, 8-cyl.....	75
 Group 26 Cooling system	
Cooling fan, 5-cyl.....	76
Cooling fan, Diesel, 6-cyl. & 8-cyl.....	77
 Group 27 Engine control	
Cruise control, 5-cyl.	78
Cruise control, Diesel, 6-cyl. & 8-cyl.	79
 Group 32 Alternator and voltage regulator	
Power supply	80
 Group 33 Starting system	
Starting system, 5-cyl.....	81
Starting system, Diesel, 6-cyl. & 8-cyl.....	82

Table of Contents 2:3

Group 35 Lighting

High and low beams/Bi-Xenon & Daytime running lights V70	83
High and low beams/Bi-Xenon & Daytime running lights XC90	84
Active headlights (ABL)	85
Fog lights	86
Brake lights	87
Reversing lights	88
Follow-me-home lighting.....	89
Running/parking lights, tail lights & license plate lighting V70	90
Running/parking lights, tail lights & license plate lighting XC90	91
Interior lighting V70.....	92
Interior lighting XC90	93
Beam length adjustment V70.....	94
Beam length adjustment XC90	95
Auxiliary lights.....	96

Group 36 Additional electrical equipment

Rain sensor.....	97
Direction indicators and hazard warning flashers V70	98
Direction indicators and hazard warning flashers XC90	99
Wiper/washer Windshield	100
Wiper/washer Headlights V70	101
High pressure headlight washer	102
Wiper/washer Rear window	103
Horn	104
Electronic immobilizer.....	105
Anti-theft alarm V70.....	106
Anti-theft alarm XC90	107
Parking assistance.....	108
Alcohol lock.....	109
Accessory Electronic Module (AEM) 1:2	110

Group 37 Wiring and fuses

Diagnostics system.....	112
12V outlet	113
Tow hitch cable harness, 4-pin	114
Tow hitch cable harness, 4/7-pin	115
Tow hitch cable harness, 7-pin	116
Tow hitch cable harness, 13-pin	117
Accessory USB unit (AUU), XC90.....	118

Group 38 Instruments

Seat belt reminder	119
Driver information module, 5-cyl.	120
Driver information module, Bi-Fuel	121
Driver information module, Diesel.....	122
Driver information module, 6-cyl.	123
Driver information module, 8-cyl..	124

Group 39 Other

Audio with auxiliary amplifier V70 1:2	125
Audio V70	127
Audio XC90.....	128
Audio Performance XC90.....	129
Road Traffic Information module (RTI) V70.....	130
Portable navigation system.....	131
Road Traffic Information module (RTI) XC90	132
Handsfree V70	133
Handsfree XC90	134
Handsfree MAX V70	135
Handsfree MAX XC90.....	136
CD changer V70	137
RTI & CD changer V70	138
MP3 player V70	139
Cellular phone V70	140
Subwoofer V70	141
Subwoofer XC90.....	142
Satellite radio V70.....	143
Satellite radio XC90	144
Rear seat entertainment V70 1:2	145
Rear seat entertainment XC90	147
Rear seat entertainment XC90	148
Infotainment XC90	149
Rear seat entertainment roof mounted XC90	150
Parking camera, XC90.....	151
AEM & Parking camera, XC90.....	152

Group 43 Transmission

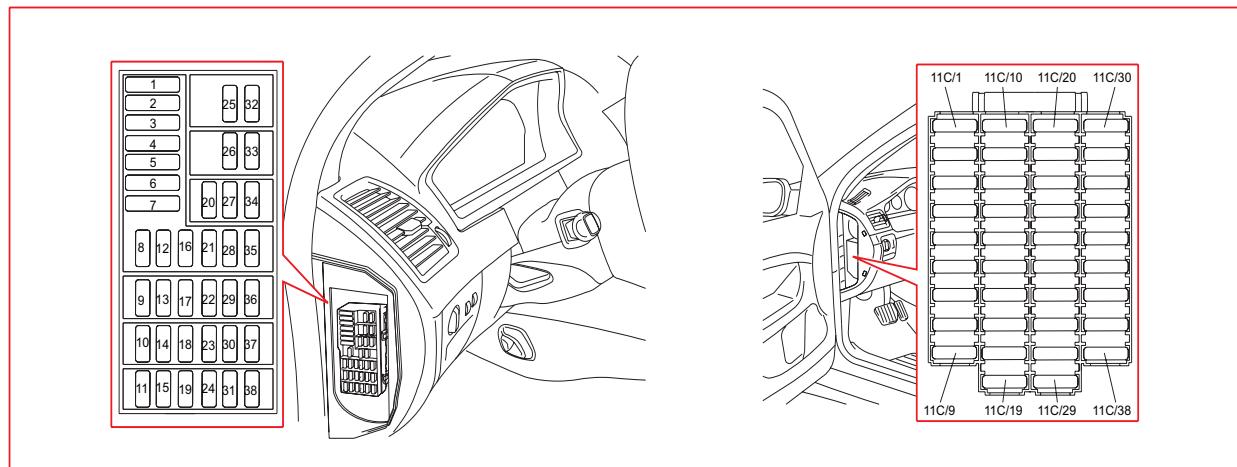
Automatic transmission AW55-51SN/AW51AWD.....	153
Automatic transmission TF-80SC AWD, 8-cyl.	154
Automatic transmission TF-80SC/TF-80SC AWD 6-cyl. & Diesel.....	155
Geartronic AW55-51 SN/AW51 AWD	156
Shift lock AW51 & Manual	157
Differential Electronic Module (DEM).....	158

Table of Contents 3:3

Group 59 Brake system	
Brake control system	159
Group 64 Steering	
Electronic power steering	160
Group 76 Shock absorbers	
Four-C V70	161
Group 83 Doors and openings	
Central locking system V70	162
Central locking system XC90.....	163
Power windows.....	164
Power sunroof.....	165
Group 84 Exterior decorative elements, etc.	
Power exterior rearview mirrors.....	166
Blind spot information system.....	167
Heated exterior rearview mirrors	168
Heated rear window.....	169
Group 85 Interior equipment	
Power driver's seat	170
Power passenger seat.....	171
Heated seats.....	172
Group 87 Climate control system	
Rear climate control system XC90	173
Climate control system, 5-cyl. 1:2.....	174
Climate control system, Diesel, 6-cyl. & 8-cyl. 1:2....	176
Parking heater, auxiliary heater	178
Relay, electric engine heater	179
Remote parking heater start V70.....	180
Parking heater call start V70.....	181
Auxiliary heater V70.....	182
Group 88 Internal equipment	
Remote garage door opener.....	183
Supplemental Restraint System module (SRS) V70 .	184
Supplemental Restraint System module (SRS) XC90	185
Connectors.....	186
Branching points	221
Cable harness routine in vehicle	
Engine harness Gasoline.....	233
Engine harness Gasoline 6-cyl	234
Engine harness Diesel	235
Engine compartment harness LHD, V70	236
Engine compartment harness RHD, V70.....	237
Engine compartment harness LHD, XC90.....	238
Engine compartment harness RHD, XC90	239
Passenger compartment harness LHD, V70	240
Passenger compartment harness RHD, V70.....	241
Passenger compartment harness LHD, XC90.....	242
Passenger compartment harness RHD, XC90	243
Cargo compartment harness V70	244
Cargo compartment harness XC90	245
Roof harness & Inflatable curtain harness V70.....	246
Tailgate harness V70.....	246
Roof harness XC90	247
Tailgate harness XC90	247
Door harness V70.....	248
Door harness XC90	249
Bi-Fuel harnesses V70.....	250
Rear seat entertainment V70	251
Component illustrations	252
Index 1:2	333
List of components 1:10	335

Fuses

Passenger compartment 11C/11-14

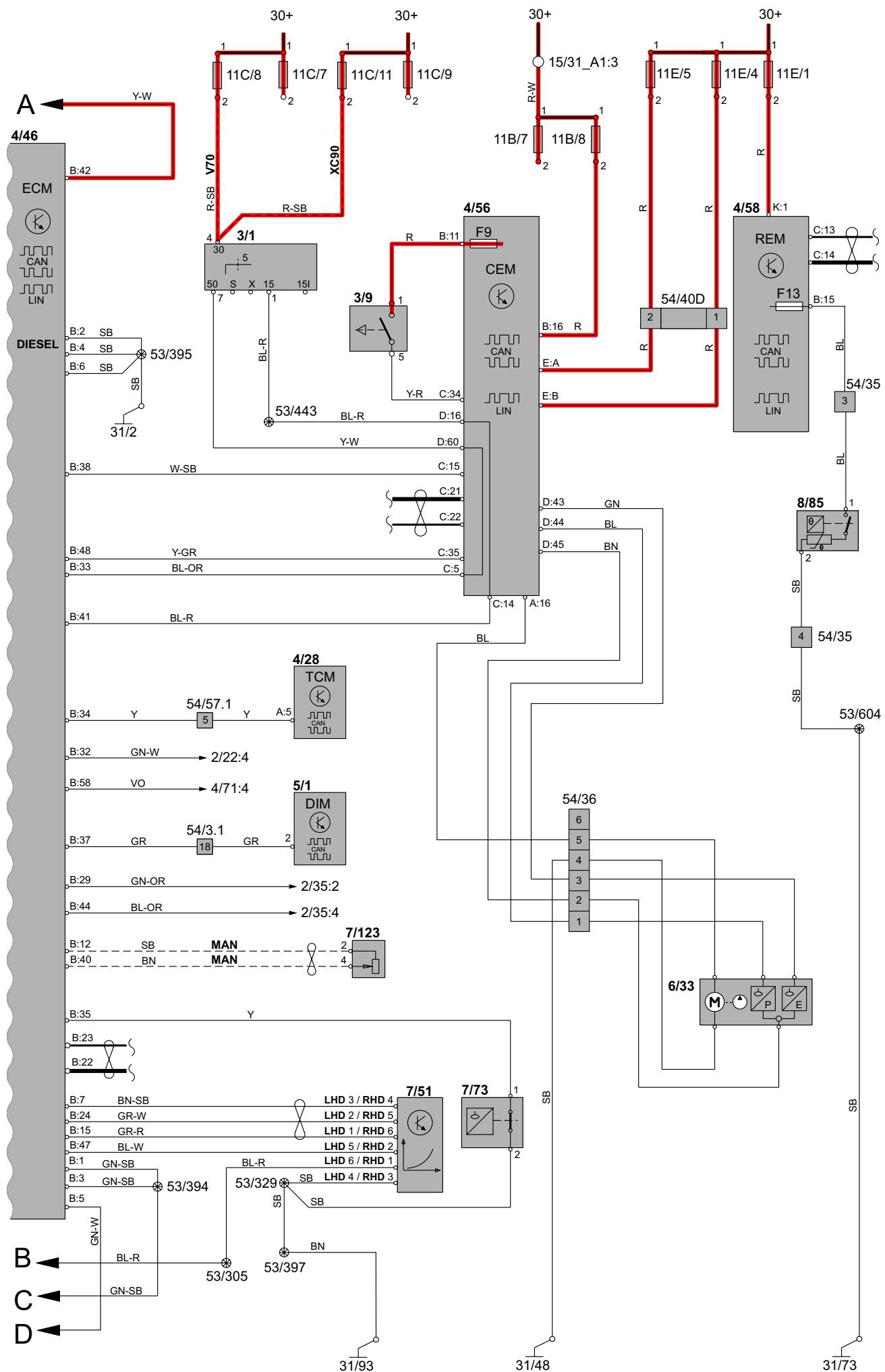


11C Fuses in the passenger compartment

No.	Fuse function	via	A
11	16/2 Amplifier, V70	-	30
	3/157 Switch airbag passenger side, XC90	3/1	7.5
	4/9 Supplemental Restraint System module (SRS), XC90	3/1	
	4/28 Transmission Control Module (TCM), XC90	3/1, 4/56	
	4/46 Engine Control Module (ECM), XC90	3/1, 4/56	
	4/56 Central Electronic Module (CEM), XC90	3/1	
	4/58 Rear Electronic Module (REM), XC90	3/1	
11O/1	Fuses in spare fuse holder, passenger compartment XC90	-	
	Fuses in spare fuse holder, passenger compartment XC90	3/1	
	16/65 Antenna ring/ignition switch lighting, XC90	3/1	
12	16/46 RTI display, V70	-	10
	3/117 Ceiling light switch unit, XC90	4/70	
	4/33 Sun Roof Module (SRM), XC90	4/70	
	4/70 Upper Electronic Module (UEM), XC90	-	
	4/76 Remote controlled garage door opener, XC90	4/70	
	7/149 Rain Sensor Module (RSM), XC90	4/70	
	10/114 Left-hand vanity mirror lighting, XC90	4/70	
	10/115 Right-hand vanity mirror lighting, XC90	4/70	
	10/150 Rear reading light, XC90	4/70	
13	16/60 Phone Module (PHM), V70	-	5
	4/70 Upper Electronic Module (UEM), XC90	-	15
	6/15 Sunroof motor, XC90	4/33	-
14	16/60 Phone Module (PHM), XC90	-	5

Group 23 Fuel system

Engine management system, Diesel 2:3



Cable harness routine in vehicle

Engine harness Gasoline

