

Table of Contents 1:3

Vehicles with SRS (Airbag)/SIPS bag/IC (Inflatable Curtain)	2
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/8-11.....	21
Passenger compartment 11C/12-14.....	22
Cargo compartment 11E/1-7	23
Cargo compartment 11F/1-2.....	24
Central Electronic Module (CEM) F1-F14.....	25
Central Electronic Module (CEM) F15-F34.....	26
Rear Electronic Module (REM) F1-F7	27
Rear Electronic Module (REM) F8-F28	28
Rear Electronic Module (REM) F29-F38	29

Relays

Ignition switch and relays.....	30
Engine compartment FMA1 - FST3.....	31
Other relays	32

Ground connections

Overview.....	33
31/1 - 31/44	34
31/46 - 31/67	35
31/70 - 31/73	36
31/83 - 31/84	37
31/88 - 31/91	38
31/93 - 31/94	39
31/95 - 31/100	40
31/102 - 31/120	41

Control modules

Overview positions V70	42
Overview designations V70	43
Overview positions XC90.....	44
Overview designations XC90.....	45
Central Electronic Module (CEM) 1:2	46
Rear Electronic Module (REM) 1:2	48
Data communication high speed CAN V70.....	50
Data communication high speed CAN XC90	51
Data communication low speed CAN V70	52
Data communication low speed CAN XC90	53
Data communication, LIN 1:2.....	54
Data communication MOST, XC90.....	56

Group 23 Fuel system

Engine management system, I5D 1:3.....	57
Engine management system, 5-cyl. 1:2.....	60
Engine management system, 5-cyl. Turbo 1:2	62
Engine management system, 6-cyl. 1:2.....	64
Engine management system, Bi-fuel 1:2	66
Engine management system, diesel 1:2	68
Engine management system, 8-cyl. 1:2.....	70
Emission control, 5-cyl.	72
Emission control, 5-cyl. turbo & 6-cyl.	73
Emission control, 8-cyl. XC90	74

Group 26 Cooling system

Cooling fan.....	75
Cooling fan, I5D & 8-cyl.	76

Group 27 Engine control

Cruise control	77
Cruise control, I5D & 8-cyl.	78

Group 32 Alternator and voltage regulator

Power supply	79
--------------------	----

Group 33 Starting system

Starting system	80
-----------------------	----

Table of Contents 2:3

Group 35 Lighting

High and low beams/Bi-Xenon & Daytime running lights V70	81
High and low beams/Bi-Xenon & Daytime running lights XC90	82
Fog lights	83
Brake lights	84
Reversing lights	85
Follow-me-home lighting.....	86
Running/parking lights, tail lights & license plate lighting V70	87
Running/parking lights, tail lights & license plate lighting XC90	88
Interior lighting V70.....	89
Interior lighting XC90	90
Beam length adjustment V70.....	91
Beam length adjustment XC90.....	92
Auxiliary lights.....	93

Group 36 Additional electrical equipment

Rain sensor.....	94
Direction indicators and flashing hazard lights V70	95
Direction indicators and hazard warning flashers XC90	96
Wiper/washer, windshield	97
Wiper/Washer Headlights V70.....	98
High pressure headlight washer	99
Wiper/washer, rear window	100
Horn	101
Electronic immobilizer.....	102
Anti-theft alarm V70	103
Anti-theft alarm XC90	104
Parking assistance.....	105
Accessory Electronic Module (AEM) 1:2	106

Group 37 Wiring and fuses

Diagnostics system.....	108
12V outlet	109
Tow hitch cable harness, 4-pin	110
Tow hitch cable harness, 4/7-pin.....	111
Tow hitch cable harness, 7-pin.....	112
Tow hitch cable harness, 13-pin	113

Group 38 Instruments

Seat belt reminder	114
Driver information module.....	115

Driver information module, Bi-Fuel	116
Driver information module, I5D	117
Driver information module, 8-cyl.	118

Group 39 Other

Audio V70	119
Audio with auxiliary amplifier V70 1:2	120
Audio XC90.....	122
Road Traffic Information module (RTI) V70	123
Turn-by-Turn, navigation system V70	124
Road Traffic Information module (RTI) XC90	125
Handsfree V70	126
Handsfree XC90	127
Handsfree MAX V70	128
Handsfree MAX XC90.....	129
CD-Changer V70	130
RTI & CD changer V70	131
MP3 player, V70	132
CD/MD player XC90	133
Cellular phone V70	134
Subwoofer V70	135
Subwoofer XC90.....	136
Infotainment XC90	137
Satellite radio V70.....	138
Rear Seat Entertainment XC90	139
Rear Seat Entertainment XC90 1:2	140

Group 43 Transmission

Automatic transmission	
AW55-50/51SN/AW50/51AWD.....	142
Automatic transmission 4T65AWD XC90	143
Automatic transmission TF-80SC AWD.....	144
Automatic transmission	
TF-80SC / TF-80SC AWD, I5D.....	145
Geartronic	146
Shift lock	147
Differential Electronic Module (DEM).....	148

Group 59 Brake system

Brake control system	149
----------------------------	-----

Group 64 Steering

Electronic power steering.....	150
--------------------------------	-----

Group 76 Shock absorbers

Four-C V70	151
------------------	-----

Table of Contents 3:3

Group 83 Doors and openings

Central locking system V70	152
Central locking system XC90.....	153
Power windows.....	154
Power sunroof.....	155

Group 84 Exterior decorative elements, etc.

Power exterior rearview mirrors.....	156
Heated exterior rearview mirrors with camera function.....	157
Heated exterior rearview mirrors	158
Heated rear window.....	159

Group 85 Interior equipment

Power driver's seat	160
Power passenger seat.....	161
Heated seats.....	162

Group 87 Climate control system

Rear climate control system XC90	163
Climate control system 1:2	164
Climate control system, I5D & 8-cyl. 1:2.....	166
Parking heater, auxiliary heater	168
Relay, electric engine heater	169
Remote parking heater start V70.....	170
Parking heater call start V70.....	171
Auxiliary heater V70.....	172

Group 88 Internal equipment

Remote garage door opener.....	173
Supplemental Restraint System module (SRS) V70	174
Supplemental Restraint System module (SRS) XC90	175

Connectors.....	176
-----------------	-----

Branching points	205
------------------------	-----

Cable harness routine in vehicle

Engine harness, gasoline	218
Engine harness, diesel	219
Engine harness, I5D	220
Engine compartment harness LHD, V70	221
Engine compartment harness RHD, V70.....	222
Engine compartment harness LHD, XC90.....	223
Engine compartment harness RHD, XC90	224
Passenger compartment harness LHD, V70	225
Passenger compartment harness RHD, V70.....	226
Passenger compartment harness LHD, XC90.....	227
Passenger compartment harness RHD, XC90	228
Cargo compartment harness V70	229
Cargo compartment harness XC90	230
Roof harness & Inflatable curtain harness V70.....	231
Tailgate harness V70.....	231
Roof harness XC90	232
Tailgate harness XC90	232
Door harness V70	233
Door harness XC90	234
Bi-Fuel harnesses V70.....	235
Rear seat entertainment XC90	236

Component illustrations	237
-------------------------------	-----

Index 1:2.....	317
----------------	-----

List of components 1:9

