

2014 Volvo XC90



Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red (x2) (50A each)	+	driver kick, harness to rear or CEM under driver dash
Second 12 Volts	red/black (7.5A)	+	ignition switch, gray 8 pin plug, pin 4
Starter	yellow/white	+	ignition switch, gray 8 pin plug, pin 7
Second Starter	N/A		
Ignition	blue/red	+	ignition switch, gray 8 pin plug, pin 1
Second Ignition	N/A		
Third Ignition	N/A		
Accessory	blue	+	ignition switch, gray 8 pin plug, pin 8
Second Accessory	purple	+	ignition switch, gray 8 pin plug, pin 6
Third Accessory	N/A		
Key Sense	yellow (required)	+	ignition switch, gray 8 pin plug, pin 3
Data Bus	N/A		
Can Bus High	white	data	data link connector, 16 pin plug, pin 3
Can Bus Low	green	data	data link connector, 16 pin plug, pin 11
Can Bus Sw	N/A		
Power Lock	(use factory alarm arm)		
Power Unlock	(use factory alarm disarm)		
Lock Motor	yellow	5 wire	REM in left rear quarter panel, black 32 pin plug, pin 23
Unlock Motor	gray	5 wire	Driver Door Module, gray 12 pin plug, pin 6
Disarm Defeat	gray	5 wire	REM in left rear quarter panel, black 32 pin plug, pin 24
Parking Lights (+)	white (LF), gray (RF); gray/white (LR), gray (RR)	+	CEM, top rear, 36P plg, pins 19, 20; REM, rear, 36P plg, pins 6, 5
Parking Lights (-)	(LIN bus)		
Hazards	yellow	-	hazard switch, 5 pin plug, pin 3
Turn Signal (Left)	green (F); green (R)	+	CEM, top rear, 32 pin plug, pin 31; REM, brn 32 pin plug, pin 11
Turn Signal (Right)	green/white (F); green/white (R)	+	CEM, top rear, 32 pin plug, pin 32; REM, brn 32 pin plug, pin 10

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	blue/white (L); blue/yellow (R)	+	CEM under driver dash, top rear, 32 pin plug, pins 7, 4
AutoLights	(LIN bus)		
Reverse Light	blue	+	REM in left rear quarter panel, brown 32 pin plug, pin 7
Left Front Door Trigger	pink	- N.C.	REM in left rear quarter panel, rear, 14 pin plug, pin 12
Right Front Door Trigger	pink	- N.C.	REM in LR quarter panel, rear, 36 pin plug, pin 29
Left Rear Door Trigger	pink	- N.C.	REM in LR quarter panel, rear, 14 pin plug, pin 3
Right Rear Door Trigger	pink	- N.C.	REM in LR quarter panel, rear, 36 pin plug, pin 33
Dome Supervision	white	+	underdash light, green 5 pin plug, pin 2
Trunk/Hatch Pin	white	- N.C.	REM in left rear quarter panel, black 10 pin plug, pin 2
Rear Glass Pin	N/A		
Hood Pin	yellow	- N.C.	hood switch or REM in LR quarter panel, rear, 14 pin plug, pin 4
Trunk Hatch/Release	N/A		
Trunk Release Motor	white (unlock only)	5 wire	REM in left rear quarter panel, black 10 pin plug, pin 9
Fuel Door Release	blue/black (unlock only)	5 wire	REM in left rear quarter panel, brown 32 pin plug, pin 9
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)	N/A		
Factory Alarm Arm	purple/white (driver door key lock)	-	Driver Door Module, green 30 pin plug, pin 13
Factory Alarm Disarm	blue/white (driver door key unlock)	double -	Driver Door Module, green 30 pin plug, pin 12
Disarm No Unlock	(keysense and ignition)		
Trunk Alarm Shunt	N/A		
Tachometer	blu/wh, brn/wh, yel/wh, pnk/wh, pur/wh, or gry/wh	ac	any fuel injector, 2 pin plug, pin 2
Wait to Start	N/A		
Neutral Safety	N/A		
Clutch Pedal	black (input); brown (output)	- resistor	clutch switch, 5 pin plug, pins 2, 4
Fuel Pump	blue	+	driver kick, harness to rear
Rear Defroster	white (x2)	+ latched	REM in left rear quarter panel, 5 pin plug, pins D, E
Mirror Defroster	(CAN bus)		
Left Front Heated Seat	(LIN bus)		
Right Front Heated Seat	(LIN bus)		

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	(wheel speed sensor)		
Brake Wire	yellow/red	+	brake switch, blue 5 pin plug, pin 5
Parking Brake	yellow	-	parking brake switch, 1 pin plug, pin 1
Horn Trigger	yellow	-	steering wheel, green 10 pin plug, pin 10
Wipers	gray	-	CEM under driver dash, top rear, 36 pin plug, pin 4
Left Front Window (Up/Down)	red/black - purple	A	Driver Door Module, gray 12 pin plug, pins 3 - 4
Right Front Window (Up/Down)	red/black - purple	A	Passenger Door Module, gray 12 pin plug, pins 3 - 4
Left Rear Window (Up/Down)	green/brown - blue	A	REM in left rear quarter panel, black 32 pin plug, pins 1 - 2
Right Rear Window (Up/Down)	green/brown - blue	A	REM in left rear quarter panel, brown 32 pin plug, pins 1 - 2
Sun Roof (Open/Close)	green - lt. blue	A	Sun Roof Module in front of roof, 2 pin plug, pins 2 - 1
Sun Roof (Limit/Close)	N/A		
Memory Seat 1		-	Power Seat Module under seat, 16 pin plug, pin 2
Memory Seat 2		-	Power Seat Module under seat, 16 pin plug, pin 1
Memory Seat 3		-	Power Seat Module under seat, 16 pin plug, pin 16
Radio 12V	gray/red	+	radio, 14 pin plug, pin 1
Radio Ground	brown	-	radio, 14 pin plug, pin 8
Radio Ignition	purple	+	radio, 14 pin plug, pin 2
Radio Illumination	(CAN bus)		
Factory Amp Turn-on	(MOST bus)		
Power Antenna	N/A		
Left Front Speaker (+/-)	gray/red - gray	+,-	radio, 14 pin plug, pins 5 - 12
Right Front Speaker (+/-)	gray/red - gray	+,-	radio, 14 pin plug, pins 4 - 11
Left Rear Speaker (+/-)	gray/white - gray	+,-	radio, 14 pin plug, pins 6 - 13
Right Rear Speaker (+/-)	gray/white - gray	+,-	radio, 14 pin plug, pins 3 - 10
Center Channel (+/-)	gray/red - gray	+,-	amplifier under passenger seat, 16 pin plug, pins 10 - 2
Subwoofer (+/-)	N/A		
Aux. Audio Input Left (+/-)	blue/brown - blue/white	+,-	radio, 14 pin plug, pins 7 - 14
Aux. Audio Input Right (+/-)	white - blue/white	+,-	radio, 14 pin plug, pins 9 - 14
RSE Video (+/-)			
RSE Audio Left (+/-)	gray - black	+,-	DVD player in cntr console, 26 pin plug, pins 16-3
RSE Audio Right (+/-)	gray/red - black	+,-	DVD player in cntr console, 26 pin plug, pins 17-3
Satellite Radio 12 Volts	purple/white	+	Sat Radio in RR quarter panel, 2 pin plug, pin 1
Satellite Radio Ground	brown	-	Sat Radio in RR quarter panel, 2 pin plug, pin 2
Satellite Radio Ignition	(MOST bus)		
Satellite Radio Antenna	(coaxial cable)		
Satellite Audio Left (+/-)	(MOST bus)		
Satellite Audio Right (+/-)	(MOST bus)		

What Fits

Item	Size	Depth	Location
Headunit	irregular		center of dash
Left Front Speaker	6.5	4	left front door
Left Front Tweeter	1.5	1	left front door
Right Front Speaker	6.5	4	right front door
Right Front Tweeter	1.5	1	right front door
Left Rear Speaker	6.5	4	left rear door
Left Rear Tweeter			left rear pillar
Right Rear Speaker	6.5	4	right rear door
Right Rear Tweeter			right rear pillar
Center Channel			top center of dash
Subwoofer	N/A		
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			right rear quarter panel

Additional Wiring Notes

Item	Note
Left Front Speaker (+/-)	On models with amplifier, the speaker wires are gray/red - gray at the amplifier under passenger seat, 16 pin plug, pins 9 - 1.
Right Front Speaker (+/-)	On models with amplifier, the speaker wires are gray/red - gray at the amplifier under passenger seat, 16 pin plug, pins 11 - 3.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are gray/white - gray at the amplifier under passenger seat, 16 pin plug, pins 12 - 4.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are gray/white - gray at the amplifier under passenger seat, 16 pin plug, pins 13 - 5.