

2002 Volvo V40

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	white	+	ignition harness
Second 12 Volts			
Starter	green	+	ignition harness
Second Starter	N/A		
Ignition	blue/pink	+	ignition harness
Second Ignition	N/A		
Third Ignition	N/A		
Accessory	blue/black	+	ignition harness
Second Accessory	blue	+	ignition harness
Third Accessory			
Key Sense	blue/black	+	ignition harness or VGLA, pin B10
Data Bus			
Can Bus High			
Can Bus Low			
Can Bus Sw			
Power Lock	brown/gray or brown/green	-	VGLA, pin A16
Power Unlock	yellow/gray (double pulse)	-	VGLA, pin A18
Lock Motor	gray/white	5wi	VGLA, pin B2
Unlock Motor	green/gray	5wi	VGLA, pin A15
Disarm Defeat	gray to green/gray	5wi	VGLA, pin B12
Parking Lights (+)	blue/pink	+	headlight switch
Parking Lights (-)	N/A		
Hazards	same as turn signal wires		
Turn Signal (Left)	brown or green/black	+	steering column or VGLA, pin A12
Turn Signal (Right)	brown/black or yellow/brown	+	steering column or VGLA, pin A13

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	gray/red	-	headlight switch
AutoLights			
Reverse Light	purple/white or brown/orange	+	driver kick, harness to rear
Left Front Door Trigger	see notes	-	VGLA
Right Front Door Trigger			
Left Rear Door Trigger			
Right Rear Door Trigger			
Dome Supervision	yellow/brown	-	VGLA, pin A24
Trunk/Hatch Pin	blue/brown	-	VGLA, pin A19
Rear Glass Pin			
Hood Pin	yellow/black		VGLA, pin A3
Trunk Hatch/Release	green/gray	5wi	VGLA, pin B22
Trunk Release Motor			
Fuel Door Release			
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)			
Factory Alarm Arm	arms with lock		
Factory Alarm Disarm	disarms with unlock		
Disarm No Unlock			
Trunk Alarm Shunt			
Tachometer	pink	ac	instrument cluster or EMS
Wait to Start	gray	-	instrument cluster or EMS
Neutral Safety			
Clutch Pedal			
Fuel Pump			
Rear Defroster			
Mirror Defroster			
Left Front Heated Seat			
Right Front Heated Seat			

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	green		radio harness
Brake Wire	pink/black	+	brake pedal switch
Parking Brake	green/white	-	parking brake switch
Horn Trigger	green/black	-	steering column
Wipers	blue/red (L), gray/red (H)	+	steering column
Left Front Window (Up/Down)	brown - pink	A	driver window switch in door
Right Front Window (Up/Down)	green - blue/yellow	A	driver kick, door harness
Left Rear Window (Up/Down)	yellow/white - gray/red	A	driver kick, door harness
Right Rear Window (Up/Down)	brown/white - red	A	driver kick, door harness
Sun Roof (Open/Close)			sunroof motor
Sun Roof (Limit/Close)	N/A		
Memory Seat 1	N/A		
Memory Seat 2	N/A		
Memory Seat 3	N/A		
Radio 12V	red	+	radio harness
Radio Ground	black	-	radio harness
Radio Ignition	brown/white	+	radio harness
Radio Illumination	yellow/white (dimmer)	+	radio harness
Factory Amp Turn-on			
Power Antenna	red	+	radio harness
Left Front Speaker (+/-)	brown - white	+,-	radio harness
Right Front Speaker (+/-)	green/yellow - gray	+,-	radio harness
Left Rear Speaker (+/-)	green - green/black	+,-	radio harness
Right Rear Speaker (+/-)	yellow - yellow/black	+,-	radio harness
Center Channel (+/-)			
Subwoofer (+/-)			
Aux. Audio Input Left (+/-)			
Aux. Audio Input Right (+/-)			
RSE Video (+/-)			
RSE Audio Left (+/-)			
RSE Audio Right (+/-)			
Satellite Radio 12 Volts			
Satellite Radio Ground			
Satellite Radio Ignition			
Satellite Radio Antenna			
Satellite Audio Left (+/-)			
Satellite Audio Right (+/-)			

What Fits

Item	Size	Depth	Location
Headunit			
Left Front Speaker			
Left Front Tweeter			
Right Front Speaker			
Right Front Tweeter			
Left Rear Speaker			
Left Rear Tweeter			
Right Rear Speaker			
Right Rear Tweeter			
Center Channel			
Subwoofer			
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner			

Smart Starter Kill Relay

Relay Type:	n/a
Part #:	n/a
OE Relay Part #:	
Location:	n/a

Notes:
n/a

Alternate Part Notes:
n/a

Immobilizer Bypass Module

Required:	Yes
Type:	Transponder
Part #:	556UW
Alternate Part #'s:	DesignTech 20402, DesignTech 29402

Notes:

Additional Wiring Notes

Item	Note
Left Front Door Trigger	The LF door trigger is green in pin A23. The RF door is green/orange in pin B5. The LR door is green/red in pin B6. The RR door is blue/yellow in pin B7. Use all four wires and diode isolate each. The VGLA (control module for locks and alarm) is located behind the front center console.
Hood Pin	The hood pin wire is grounded when the hood is closed and neutral with the hood open. Use Directed part number 502T to create a trigger. The VGLA (control module for locks and alarm) is located behind the front center console.
Key Sense	The VGLA (control module for locks and alarm) is located behind the front center console.
Power Lock	The VGLA (control module for locks and alarm) is located behind the front center console.
Lock Motor	The VGLA (control module for locks and alarm) is located behind the front center console.
Turn Signal (Left)	The VGLA (control module for locks and alarm) is located behind the front center console.
Turn Signal (Right)	The VGLA (control module for locks and alarm) is located behind the front center console.
Trunk/Hatch Pin	The VGLA (control module for locks and alarm) is located behind the front center console.
Trunk Hatch/Release	This will just unlock the trunk/tailgate. The VGLA (control module for locks and alarm) is located behind the front center console.
Power Lock	A single pulse will disarm the factory alarm without unlocking the doors. A double pulse will disarm the factory alarm and unlock all doors.
Wait to Start	The wait to start wire is in conn. 1, pin G1 at the diesel EMS located between the passenger fender and the engine.
Power Unlock	The VGLA (control module for locks and alarm) is located behind the front center console.
Driver Unlock Motor	The VGLA (control module for locks and alarm) is located behind the front center console.
Passenger Unlock Motor	The VGLA (control module for locks and alarm) is located behind the front center console.
Dome Supervision	The VGLA (control module for locks and alarm) is located behind the front center console.
Tachometer	Gasoline models, the tach wire is in pin 70 at the EMS (Engine Management System) located behind the front center console. Can also use NOT red at any ignition coil or fuel injector. Diesel models, the tach wire is in conn. 1, pin D4 at the diesel EMS located between the passenger fender and the engine.