

2017-2024 Volvo S90 | Advanced | 2-3 hours | \$530 DIY

**TOOLS**

10mm Socket 13mm Socket 14mm Socket  
Socket Wrench Extension Bar Flathead  
Screwdriver Jack Stands Torque Wrench  
Pry Bar Safety Glasses

**PARTS**

Starter Motor 314-1001 \$500.00  
Starter Motor Gasket 314-1002 \$20.00  
Battery Terminal Cleaner 314-1003 \$10.00

**STEPS**

- 1 Disconnect the battery and raise the vehicle if needed - Always disconnect the negative battery cable first.** On the Volvo S90, the starter is typically on the bellhousing - access may be from above or below. If you must raise the vehicle, use a floor jack on a solid lift point and support with...
- 2 Locate the starter and disconnect wiring - Identify the B+ battery cable and the solenoid trigger wire/connector on the starter.** Remove the nut and cable, then unplug the trigger connector. Cap or tape the battery cable end so it cannot short to ground.
- 3 Support the starter and remove mounting bolts - Support the starter body, then remove the mounting bolts (often 13-15 mm).** Lower or lift the starter out clear of the bellhousing. Note any heat shield, bracket, or alignment dowel that must transfer to the new unit.
- 4 Compare the new starter - Compare nose length, clocking of the solenoid, mounting ears, and pinion gear to the old starter.** Transfer any brackets or heat shields. Confirm the drive gear turns freely by hand.
- 5 Install the new starter and reconnect cables - Maneuver the new starter into place, start the mounting bolts by hand, then tighten evenly to spec.** Reconnect the solenoid trigger connector and the B+ cable; tighten the cable nut firmly without stretching the terminal.
- 6 Reconnect the battery and test cranking - Reconnect the negative battery cable. Verify the Volvo S90 cranks strongly without grinding or slow-spin symptoms.** Confirm no chafed wiring and that any underbody shields are reinstalled before a final road check.