

2005-2014 Nissan Frontier | Advanced | 2-4 hours | \$220 DIY

TOOLS

Metric/SAE socket set and ratchet Long extensions and universal joint Torque wrench Floor jack and jack stands if underside access is required Multimeter or test light Safety glasses and gloves

PARTS

Replacement starter motor \$220.00
Starter terminal hardware or heat shield fasteners (if needed) \$20.00

STEPS

- 1 Confirm the no-crank diagnosis - Park the 2005-2014 Nissan Frontier safely, set the parking brake, and switch the ignition off. Verify the battery is charged and test battery voltage, cable voltage drop, grounds, fuses, relay, and the start signal before replacing the sta...**
- 2 Disconnect the battery and gain access - Disconnect the negative (-) battery cable on the 2005-2014 Nissan Frontier first and isolate it so it cannot touch the post. Locate the starter at the engine/transmission bellhousing and remove only the intake duct, splash shield, skid p...**
- 3 Label and disconnect starter wiring - Photograph the 2005-2014 Nissan Frontier starter connections before removal. Remove the nut and main B+ cable, then unplug or remove the solenoid trigger wire. Keep the energized cable insulated from ground and inspect the terminals for he...**
- 4 Remove and compare the old starter - Support the starter on the 2005-2014 Nissan Frontier while removing its mounting bolts. Lower or maneuver it out without stressing nearby wiring. Compare the replacement with the old unit for mounting ears, nose length, gear, solenoid cloc...**
- 5 Install and torque the replacement starter - Fit the replacement starter to the 2005-2014 Nissan Frontier bellhousing, start every mounting bolt by hand, and tighten evenly to the manufacturer specification. Reinstall any alignment dowel, bracket, or heat shield. Reconnect the soleno...**
- 6 Reconnect the battery and verify cranking - Reconnect the negative battery cable on the 2005-2014 Nissan Frontier, reinstall shields and intake parts, and check that wiring is clear of moving or hot components. Attempt a start from a safe position; the engine should crank smoothly w...**