

1995-2006 Nissan Almera | Advanced | 60-120 minutes

TOOLS

Floor jack and two jack stands Wheel chocks 10 mm wrench for the battery terminal Socket set for the starter retaining bolts and cable nuts Wire brush for the cable terminals Work light or headlamp Dielectric grease Nitrile gloves and safety glasses

PARTS

Replacement starter motor for the 1995-2006 Nissan Almera (matches original Hitachi 12 V, 1.2 kW, 8-tooth, Nissan 23300-0M302) Dielectric grease for the electrical connections Cable ties (for re-securing the harness)

STEPS

- 1 Disconnect the battery and secure the car - Park the 1995-2006 Nissan Almera on flat ground, set the parking brake, and chock the rear wheels. Disconnect the negative battery cable with a 10 mm wrench and tuck it aside so it cannot touch the terminal. This is non-negotiable - th...**
- 2 Raise the front and access the starter - Raise the front of the Almera with a floor jack and set rated jack stands under the front subframe, then remove the lower engine splash shield if fitted. The starter on the N16 sits at the rear of the engine where it meets the transaxle be...**
- 3 Remove the starter wiring - Locate the starter motor bolted to the bellhousing and identify its two electrical connections: the thick main battery cable and the smaller solenoid signal wire. Take a photo of the wiring layout for reference. Loosen and remove the nuts...**
- 4 Unbolt and lower the old starter - Remove the two starter-retaining bolts that hold the motor to the bellhousing, supporting the starter's weight with your free hand as the second bolt comes out. The Hitachi unit is compact but dense - expect it to be heavier than it look...**
- 5 Compare the new starter to the old one - Set the old starter next to the replacement and compare them side by side: mounting flange, bolt-hole spacing, pinion gear tooth count (8 teeth on the original), and the position of the solenoid terminals. They must match exactly before yo...**
- 6 Install the new starter and reconnect the wiring - Lift the new starter into position and start both retaining bolts by hand to confirm the threads engage cleanly. Tighten them down firmly and evenly with a ratchet - the starter must sit perfectly flush against the bellhousing or the pin...**
- 7 Reassemble and lower the car - Double-check that both electrical connections are tight, that no tools or bolts are left in the bellhousing area, and that the wiring is routed clear of the exhaust and moving parts. Reinstall the lower splash shield. Lower the car off the...**
- 8 Test the new starter - Turn the key and crank - the Almera should spin over briskly and start within a couple of seconds. Listen for any grinding or whining that would indicate pinion misalignment. If it just clicks, recheck the cable connections and battery c...**