

2003-2008 Honda Pilot | Advanced | 2-3 hours | \$190 DIY

TOOLS

10mm Socket 14mm Socket 17mm Socket
Socket Wrench Extension Bar Jack and
Jack Stands Flathead Screwdriver Torque
Wrench Pry Bar Gloves

PARTS

Alternator L3H1-18-100A \$150.00
Alternator Belt K060820 \$30.00
Alternator Mounting Bolts 90080-RCA-A01
\$10.00

STEPS

- 1 Disconnect the battery - Park on level ground and set the parking brake. Disconnect the negative battery cable on the 2003-2008 Honda Pilot and isolate it so it cannot spring back. Wear gloves and eye protection. Never work on the charging circuit with the battery...**
- 2 Relieve belt tension and remove the belt - On the 2003-2008 Honda Pilot: note or photograph serpentine-belt routing. Rotate the tensioner to relieve pressure and slip the belt off the alternator pulley. Inspect the belt for cracks or glazing while it is off.**
- 3 Unplug connectors and B+ cable - On the 2003-2008 Honda Pilot: unplug the alternator field/regulator connector. Remove the protective boot and nut from the B+ output stud, then free the heavy cable. Label any ground straps or secondary connectors so they return to the cor...**
- 4 Unbolt and remove the alternator - Support the alternator and remove the mounting bolts/brackets. Maneuver the unit out of the engine bay - on some 2003-2008 Honda Pilot layouts you may need to loosen an intake duct, fan shroud, or splash shield for clearance.**
- 5 Compare and transfer fittings - On the 2003-2008 Honda Pilot: compare pulley diameter, clocking, and connector style on the new alternator. Transfer any bushings, spacers, or brackets from the old unit if the replacement does not include them. Confirm the pulley spins fr...**
- 6 Install the new alternator - On the 2003-2008 Honda Pilot: position the new alternator, start all bolts by hand, then tighten to the specified torque. Reconnect the B+ cable and protective boot, plug in the connector until it clicks, and verify no wires are pinched.**
- 7 Refit the serpentine belt - On the 2003-2008 Honda Pilot: route the belt per your photo or the under-hood diagram and release the tensioner so ribs seat fully in every pulley. Double-check alignment on the alternator pulley.**
- 8 Reconnect battery and verify charging - Reconnect the negative battery cable. Start the 2003-2008 Honda Pilot and measure charging voltage (typically ~13.5-14.7 V at idle with lights on). Listen for belt noise and confirm no battery/charging warning lamp remains illuminated.**