

2006-2010 Hyundai Sonata | Moderate | 1-2 hours

TOOLS

Metric socket set and ratchet (10, 12, 14mm) Serpentine belt tool or breaker bar
Battery terminal wrench or 10mm wrench
Torque wrench Penetrating oil Gloves and safety glasses Phone or camera for belt routing photo

PARTS

Alternator for 2006-2010 Hyundai Sonata 2.4L
Serpentine belt for 2006-2010 Hyundai Sonata 2.4L

STEPS

- 1 Disconnect the battery (negative first) - Open the hood. With a battery terminal wrench or 10mm socket, loosen the negative battery cable clamp and lift it off the terminal.** Tuck the cable aside so it cannot touch the post. The alternator B+ terminal is live at all times, so this...
- 2 Map the serpentine belt routing - Before touching anything, take a clear phone photo (or sketch) of the serpentine belt routing around every pulley.** The 2006-2010 Sonata 2.4L uses a single serpentine belt on an automatic tensioner. A misrouted belt will slip or spin access...
- 3 Release the tensioner and remove the belt - Fit a serpentine belt tool or breaker bar** onto the automatic belt tensioner and rotate it to release tension. Slip the belt off the alternator pulley first, then ease the tensioner back and lift the belt clear. Inspect the belt for cracks...
- 4 Unplug the alternator and remove the B+ cable - Squeeze the locking tab and disconnect** the alternator wiring harness plug. Then remove the nut on the B+ terminal at the rear of the alternator and lift off the heavy charging cable. Keep the cable end clear of any metal.
- 5 Unbolt and lift out the old alternator - Remove the upper and lower alternator mounting bolts** (10, 12, and 14mm sockets cover this car). The alternator comes out through the top of the engine bay on the 2.4L; if clearance is tight, unbolt and shift the cruise-control module brack...
- 6 Install the new alternator - Seat the new alternator into the bracket, hand-start the mounting bolts** so nothing cross-threads, then tighten the bolts securely to factory spec. Do not over-tighten and crack the bracket.
- 7 Reconnect the wiring and reinstall the belt - Refit the B+ cable and its terminal nut,** then push the harness plug fully home until the locking tab clicks. Route the serpentine belt exactly per your routing photo, rotate the tensioner, and slip the belt onto the alternator pulley. Rele...
- 8 Reconnect the battery and verify charging - Refit the negative battery cable and tighten the clamp.** Start the engine and confirm the battery warning light goes out. Verify the charging system with a multimeter at the battery terminals, listen for any belt squeal, and re-check the B+...