2016-2021 Hyundai Tucson - Alternator Replacement

2016-2021 Hyundai Tucson | Moderate | 1-2 hours | $406 DIY

TOOLS

Ratchet and metric socket set (10 mm, 12 mm, 14 mm) Combination wrench set (for the belt tensioner arm) Torque wrench Flathead screwdriver (electrical connector tabs, under-cover clips) Breaker bar (optional, for tensioner leverage) Floor jack and 2 jack stands plus wheel chocks (if raising for under-cover access) Safety glasses Mechanic's gloves Multimeter (verify 13.5-14.8 V charging output) Battery terminal brush Memory saver (optional, preserves radio presets and learned idle)

PARTS

Alternator, new or remanufactured, 150A (2.0L/2.4L; core charge may apply on reman units) $360.00 Serpentine drive belt (replace while the belt is off; 2.4L has a separate small water-pump belt that stays in place) $46.00

STEPS

1. **Park and prepare - Park on level ground, set the parking brake, and let the engine cool. Write down your** radio presets and other saved settings; they reset when the bat...
2. **Disconnect the battery (negative first) - Disconnect the negative (-) battery terminal first. Hyundai's** owner's-manual rule is negative cable removed first and installed last. Clean the termi...
3. **Remove the engine cover and under cover - Pull off the plastic engine cover. Remove the engine-room under** cover, or splash shield (several clips and bolts), for access and to see the belt rou...
4. **Photograph the belt routing - Sketch or photograph the serpentine belt routing before touching it. On the** 2.4L there is a separate small water-pump belt in addition to the main dr...
5. **Release the belt tensioner - Put a wrench on the belt tensioner arm boss and rotate it clockwise to** slacken the belt, then lock it with a fixing pin per the Hyundai service proce...
6. **Disconnect the alternator wiring - Disconnect the alternator electrical connector (press the latch tab and** pull). Remove the nut on the B+ terminal and lift the main cable off. The B+...
7. **Remove the alternator bolts and lift it out - Remove the alternator upper and lower mounting bolts and** lift the alternator out of the engine bay.
8. **Compare the old and new units - Compare the old and new units side by side: mounting ears, pulley groove** count, connector style, and amperage. US Tucsons of this generation use 150A...
9. **Install the new alternator - Seat the alternator in the bracket, start all mounting bolts by hand, then** tighten them evenly to firm resistance. Hyundai does not publish torque sp...
10. **Reconnect the wiring - Reconnect the B+ cable and snug the nut, then plug in the electrical connector** until the latch clicks.
11. **Reinstall the drive belt - Re-route the serpentine belt per the routing diagram, remove the fixing pin so** the automatic tensioner takes up slack, and verify the belt sits cente...
12. **Reinstall the covers and reconnect the battery - Reinstall the under cover and engine cover. Reconnect the** negative (-) battery terminal LAST.
13. **Start the engine and verify charging - Start the engine and verify charging: 13.5 to 14.8 V at the battery** terminals with the engine running. Watch that the belt tracks straight in every p...
14. **Recheck after a short drive - After a short drive, recheck charging voltage and confirm that no battery or** charging warning lights come on. Return the core on a reman unit for you...

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