2017-2020 Hyundai Elantra - Alternator

2017-2020 Hyundai Elantra | Advanced | 1.5-3 hours | $140 DIY

TOOLS

10 mm socket (battery terminal, splash shield bolts) 12 mm socket (B+ nut) 14 mm socket (mounting bolts) 17 mm socket (belt tensioner) 3/8-inch ratchet with extension set Flat trim clip tool and flat-blade screwdriver (splash shield) Needle-nose pliers Floor jack, two jack stands, wheel chocks Digital multimeter Phone or camera (belt routing photo)

PARTS

Alternator (amperage match) $140.00

STEPS

1. **Confirm the alternator is failing and park the car on level ground - Load-test the** battery first - a dead battery alone causes the same symptoms and costs far less. Park on level ground, set the parking brake, and chock the rear wheels.
2. **Disconnect the battery negative terminal - Pop the hood and find the battery at the front** of the engine bay. Use a 10 mm socket to loosen the negative terminal clamp, remove the cable, and tuck it aside so it can't spring back onto the post.
3. **Photograph the belt routing, then remove the lower splash shield - Take a quick photo of** the serpentine belt routing - or sketch it - because photos save headaches at reassembly. The Elantra's 2.0L alternator sits low enough that you'll want underneath access: lift the front safely with a floor jack,...
4. **Release the belt tensioner and remove the serpentine belt - Find the spring-loaded belt** tensioner on the front of the engine and put a 17 mm socket on the tensioner hex. Rotate it to relieve tension - keeping your fingers clear of the belt path - and while holding it, slip the belt off the alte...
5. **Remove the B+ cable - On the back of the alternator, remove the plastic cap over the main** power stud. Use a 12 mm socket to remove the B+ retaining nut and lift the cable off the stud.
6. **Remove the mounting bolts and lift the alternator out - Support the alternator with one** hand as you remove its mounting bolts with a 14 mm socket, ratchet, and extensions. The unit may need a wiggle to come free of its bracket - that's normal, just don't pry against the casing. Lift it out of...
7. **Install the new alternator, re-belt, and verify the charge - Set the new alternator into** place and start all mounting bolts by hand to avoid cross-threading, then tighten them snug per the service manual - do not overtighten. Plug the regulator connector in until it clicks, refit the B+ cable and...

TORQUE

Alternator mounting bolts 45 Nm 33 ft-lbs
Main power stud nut 10 Nm 7.4 ft-lbs

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