

2011-2016 Kia Sportage | Advanced | 2-3 hours | \$314 DIY

TOOLS

10mm Socket 12mm Socket 14mm Socket
17mm Socket 15mm Wrench Flathead
Screwdriver Jack Stands Torque Wrench
Belt Tensioner Tool Socket Extension

PARTS

Alternator 2083000536 \$257.11
Alternator Decoupler Pulley
6KWK9SM9A25T4SJX2Q1FG86J48 \$56.42

STEPS

- 1 Disconnect the battery - Park on level ground and set the parking brake. Disconnect the negative battery cable on the 2011-2016 Kia Sportage and isolate it so it cannot spring back. Wear gloves and eye protection. Never work on the charging circuit with the batter...**
- 2 Relieve belt tension and remove the belt - On the 2011-2016 Kia Sportage: 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 2011-2016 Kia Sportage: 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 co...**
- 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 2011-2016 Kia Sportage layouts you may need to loosen an intake duct, fan shroud, or splash shield for clearance.**
- 5 Compare and transfer fittings - On the 2011-2016 Kia Sportage: 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 f...**
- 6 Install the new alternator - On the 2011-2016 Kia Sportage: 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 2011-2016 Kia Sportage: 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 2011-2016 Kia Sportage 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.**