

2002-2009 GMC Envoy | Moderate | 60-90 minutes

TOOLS

Socket set 5/8-inch spark-plug socket
Extension Feeler gauge Compressed air
Gloves

PARTS

Iridium spark plugs (6, gapped 0.044 inch)
Coil boots (if cracked)

STEPS

- 1 Cool the inline-six and disconnect the battery - Let the 4.2L I6 cool for at least an hour.** Disconnect the negative battery terminal. Remove the plastic engine cover to expose the six coil packs in a row along the top of the valve cover - the inline-six layout gives excellent access.
- 2 Remove the coil packs - Unplug each coil's electrical connector by pressing its release tab.** Remove the single bolt holding each coil with a socket, then pull each coil straight up. Keep them in order from front to back. Inspect the boots for carbon tracking -...
- 3 Remove the old spark plugs - Blow compressed air into each plug well to clear debris.** Fit a 5/8-inch spark-plug socket with an extension into each well and loosen the plug. All six are accessible from the top on the inline-six - no wheel removal or contortion needed...
- 4 Gap and install the new plugs - The 4.2L uses iridium plugs gapped to 0.044 inch - verify** with a feeler gauge. Thread each plug in by hand using the extension alone until it seats, ensuring the threads start cleanly in the aluminum head. Snug with the ratchet; do not o...
- 5 Reinstall coils and verify - Push each coil firmly back onto its plug until it seats,** reinstall the bolts, and reconnect the electrical connectors with a click. Reconnect the battery and replace the engine cover. Start the engine - the inline-six should idle glass-s...
- 6 Inspect the coil connectors - While the coils are out, check each electrical connector** for green corrosion or loose pins - the 4.2L's engine bay sees a lot of heat cycling. Clean any corrosion with electrical contact cleaner. A poor coil connection causes the same mi...