2016-2019 Cadillac ATS-V - Spark Plug Replacement

2016-2019 Cadillac ATS-V | Advanced | 1-3 hours | $115 DIY

TOOLS

Metric/SAE socket set with extensions and swivel Spark-plug socket with rubber insert or magnet Torque wrench covering the plug range Compressed air or a soft brush, dielectric grease, gloves, and eye protection 14mm thin-wall spark-plug socket with rubber insert

PARTS

Correct spark plug set for the gasoline/ICE engine in 2016-2019 Cadillac ATS-V; verify engine, heat range, gap, and VIN fitment $115.00

Coil-boot seals or ignition coils only if inspection finds damage $35.00

STEPS

1. **Confirm engine and plug fitment - The ATS-V runs the 3.6L twin-turbo LF4 V6. NGK** Ruthenium HX (stock 95605, LTR7BHX), pre-gapped at 0.036 in; OE equivalent NGK ILNAR7A9 (stock 97570). You need six. Do NOT substitute the 0.044-gapped plugs from the ATS 3.6L. Scan for misfir...
2. **Cool and expose the plugs - Let the LF4 cool - the aluminum heads strip when hot.** Disconnect the negative battery cable. Remove the engine cover to expose the six coil packs. Stage a 14 mm thin-wall socket, a 6-inch extension, and a universal joint.
3. **Remove the coils - Work one bank at a time. Squeeze each coil connector’s locking tab and** pull it straight back - don’t pull the wiring. Remove the single coil bolt and lift each coil straight up, keeping them in cylinder order on a rag.
4. **Remove and install plugs - Match the old plug’s reach to the new NGK. Verify the 0.036 in** gap - a slightly wide gap causes high-boost turbo misfires. Never pry the center electrode; exchange a plug that’s off. Thread in BY HAND, tighten to spec; no impact, no anti...
5. **Reconnect and verify - Press each coil firmly onto its plug, refit the bolts, reconnect** each connector and tug-test. Start the ATS-V and confirm smooth idle. Then full-throttle pulls under boost; stumble or flashing check-engine light means rescan. A boost-only...

TORQUE

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