2014-2019 Cadillac CTS 3.6L - Easily Change Spark

2014-2019 Cadillac CTS | Moderate | 2-3 hours | $5 DIY

TOOLS

10mm Socket Wrench 13mm Socket Wrench 18mm Socket Wrench Spark Plug Wrench with Extension Flathead Screwdriver Torque Wrench

PARTS

ACDelco 41-988 Professional Iridium Spark Plug 41-988 $6.37
ACDelco 41-130 Professional Iridium Spark Plug 41-130 $4.96
Bosch 9617 Double Iridium Spark Plug $7.21
New plenum gasket

STEPS

1. **Cool the engine (verify LGX!) - The 2014-2019 Cadillac CTS 3.6L (LGX V6) uses ACDelco** 41-130 plugs. Gap and torque: not verified - check the service manual (do not guess). Do NOT confuse with the LY7/LFX plugs (41-990, 41-109) - the LGX uses the 41-130 specifically...
2. **Access coils (plenum off for rear bank) - Remove the engine cover. The REAR bank is under** the intake plenum - you MUST remove the plenum. Disconnect intake tubing, unbolt the plenum, label sensors/vacuum lines, lift it off. Take photos. Don’t confuse the LGX’s layout with the ol...
3. **Remove one coil at a time - Start with the front bank. Unplug, unbolt, pull. Keep track.** The LGX’s coils are modern - inspect the boots. The 3.6L LGX is direct-injected - the plugs see soot. Don’t drop anything into the open intake ports - cover them.
4. **Remove the old spark plug - Remove the old ACDelco 41-130 with your socket. If a plug is** oil-fouled, investigate. For the rear bank, use long extensions against the firewall. The LGX’s plug wells are deep. Don’t drop debris into the cylinders.
5. **Gap and hand-thread the new plug - The new ACDelco 41-130 comes pre-gapped - verify but** don’t adjust (iridium). Hand-thread the new plug into the LGX’s head until it seats. NEVER wrench-start - aluminum heads. For the rear bank, hand-thread blind - use fuel hose to fe...
6. **Torque to specification (verify!) - Torque to Cadillac spec - not verified for the LGX,** so check your service manual. Do NOT guess or use the LY7/LFX torque. Use a torque wrench. The DI engine’s high pressures demand correct torque.
7. **Reinstall coils and plenum - Reinstall the coil - seat it, bolt it, reconnect (click).** Repeat for all 6, one at a time. Torque the plenum bolts to spec. Remove the rags from the intake ports! Double-check - the LGX’s DI system hates vacuum leaks.
8. **Reassemble and test - Reinstall the engine cover. Start the engine - the 3.6L LGX should** idle smoothly. Check for misfire codes and vacuum leaks. The CTS’s rear-bank plenum job means many connections - rough idle is usually a missed line. Test drive: the LG...

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