

2003-2007 Cadillac CTS | Moderate | 2-3 hours | \$80 DIY

TOOLS

10mm Socket Flathead Screwdriver Jack
Stands Torque Wrench Extension Bar
Ratchet Wrench Spark Plug Socket Socket
Set Pliers Gloves

PARTS

Spark Plugs \$50.00
Intake Manifold Gasket \$30.00

STEPS

- 1 Cool the engine - Work only on a cold engine.** Hot aluminum heads can pull threads when plugs are removed. Disconnect the negative battery terminal if required by your procedure.
- 2 Access the ignition coils - Remove any engine cover or intake tube blocking the coils.** Label coil connectors or photograph their positions before unplugging.
- 3 Remove one coil at a time - Unplug the coil connector, remove the coil hold-down bolt,** and pull the coil straight up. Work one cylinder at a time to avoid mixing parts.
- 4 Remove the old spark plug - Blow loose dirt from the well. Use a spark-plug socket with a rubber insert and extension to remove the plug.** Inspect the tip for oil, coolant, or abnormal wear.
- 5 Gap and hand-thread the new plug - Confirm the new plug part number and set the gap to the manufacturer specification if required (many iridium plugs are pre-gapped).** Start the plug by hand to avoid cross-threading.
- 6 Torque to specification - Torque the plug to the spec in the service information** (typically a modest ft-lb or degree turn after seating). Do not overtighten - stripped head threads are expensive.
- 7 Reinstall the coil - Press the coil fully onto the plug, reinstall the hold-down bolt to snug/spec,** and reconnect the electrical connector until it clicks.
- 8 Reassemble and test - Refit covers/intake components, reconnect the battery if removed,** and start the engine. Listen for misfires and confirm a smooth idle. Clear any residual codes if a light remains.

TORQUE

Spark plugs 18 Nm 13 ft-lbs