2012-2016 Cadillac SRX 3.6L - Spark Plug

2012-2016 Cadillac SRX | Advanced | 2-3 hours | $304 DIY

TOOLS

1/4 Inch Ratchet Torque Wrench Gloves
T30 Bit 8mm Socket Hose Clamp Pliers
10mm Socket 5/8 Inch Spark Plug Socket
3/8 Inch Drive Ratchet Safety Glasses
T25 Torx Driver Socket Extensions

PARTS

ACDelco 41-109 Spark Plugs 41-109 $77.95
ACDelco Ignition Coils D515C $225.95
New intake gasket

STEPS

1. **Cool the engine (verify 2012+ LFX!) - The 2012-2016 Cadillac SRX 3.6L (LFX V6) uses** ACDelco 41-109 plugs. Gap: 0.043" (pre-gapped). Torque: not verified - check the service manual (do not guess). You'll need: 6x ACDelco 41-109, spark plug socket, extensions, intake gasket...
2. **Access coils (rear bank needs intake off) - Remove the engine cover. The REAR bank** (firewall side) is under the upper intake manifold - you MUST remove the intake to reach the rear plugs. Disconnect the intake tubing, unbolt the upper intake, label sensors/vacuum lines, lift it of...
3. **Remove one coil at a time - Start with the easy front bank. Unplug the connector, unbolt** the coil, pull it out. Keep track. The LFX's coils are reliable - inspect the boots. Don't drop anything into the open intake ports - cover them with rags.
4. **Remove the old spark plug - Remove the old ACDelco 41-109 with your socket. The old plugs** should show normal LFX wear. If a plug is oil-fouled, check the valve covers. For the rear bank, use long extensions working against the firewall. Don't drop debris into the cyl...
5. **Gap and hand-thread the new plug - The new ACDelco 41-109 comes pre-gapped at 0.043" -** verify but don't adjust (iridium). Hand-thread the new plug into the LFX's head until it seats. NEVER wrench-start - the aluminum heads strip. For the rear bank, hand-thread working b...
6. **Torque to specification (verify!) - Torque to Cadillac spec - not verified for the LFX,** so check your service manual. Do NOT guess. The LFX's aluminum heads need precise torque. Use a torque wrench. The 0.043" pre-gap and correct torque are critical for the DI engine.
7. **Reinstall coils and intake - Repeat for all 6, one at a time. Torque the intake bolts to** spec. Remove the rags from the intake ports before installing! Double-check every connection - the LFX's DI system is sensitive to vacuum leaks. Refit each coil, bolt it, and re...
8. **Reassemble and test - Reinstall the engine cover. Start the engine - the 3.6L LFX should** idle smoothly. Check for misfire codes and vacuum leaks. The SRX's rear-bank intake job means many connections - a rough idle is usually a missed line or the intake gas...

TORQUE

Spark plugs 18 Nm 13 ft-lbs

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