2005-2012 Acura RL - Spark Plug Replacement

2005-2012 Acura RL | Advanced | 1 to 1.5 hours - the front bank is quick, the firewall-side bank takes the time

TOOLS

5/8-inch spark plug socket with rubber insert 3/8-inch ratchet with 6-inch extension and swivel Socket for coil retaining bolts Wrench for battery terminal Wire-type or feeler spark plug gap gauge Compressed air or shop vacuum Magnetic pickup tool Gloves and safety glasses

PARTS

Correct spark plug set for the gasoline/ICE engine in 2005-2012 Acura RL; 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. **Identify your RL's V6 - 3.5L or 3.7L - and cool it down - Park on level ground, set the** parking brake, and let the engine cool completely. Disconnect the negative battery cable with a wrench and tuck it aside so it cannot touch the terminal.
2. **Size up the rear bank and plan extensions - Honda's J-series layout keeps them reachable** without removing the manifold, but hand room back there is tight and you will be working partly by feel, so plan a 6-inch extension and a swivel for the rear three before you start.
3. **Unplug and lift the six coil packs in order - Do one bank at a time and keep the coils in** order on a clean rag - although the connectors are keyed, keeping the order eliminates any doubt on reassembly. Squeeze the release tab on each coil's electrical connector and pull it free; the...
4. **Remove the six old plugs - Break each plug loose counterclockwise and spin it out. Note** each old plug's condition in order - a single oil-fouled plug on one bank points at a valve-cover gasket leak worth fixing.
5. **Check the gap against the manual and hand-thread the new plugs - Read the electrode gap** specification in your owner's manual or on the emissions sticker under the hood - the 3.5L and 3.7L can call for different plugs, so never use a generic gap value. Check each new plug with a wire-type or feeler gau...
6. **Seat the plugs and reinstall the coil packs - Tighten each plug with the socket until** seated. Do not overtighten the aluminum heads. Lower each coil back onto its plug, reinstall the retaining bolt, and push the electrical connector on until the locking tab clicks - give each one a...
7. **Reconnect the battery and verify - Reconnect the negative battery cable. Start the engine** and let it idle - it should be smooth with no check-engine light. Take a short test drive with the radio off and listen for smooth power delivery, then confirm no misfire codes have...

TORQUE

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