2014-2024 Infiniti Q50 - Spark Plug Replacement

2014-2024 Infiniti Q50 | Moderate | 2-3 hours | $85 DIY

TOOLS

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

PARTS

NGK Iridium Spark Plugs DF8H-11B (3.7L V6 2014-2015); 96008 / DILKAR8K8G (3.0T 2016+) $80.00
Denso Iridium Spark Plugs 3457 (FXE24HR11) $75.00
Permatex Anti-Seize Lubricant 80078 $5.00
Permatex Dielectric Tune-Up Grease 22058 $5.00

STEPS

1. **Cool the engine - The Infiniti Q50 3.0T (VR30 twin-turbo V6) uses NGK DILKAR8K8G (NGK** 96008) iridium plugs. Gap: 0.031" - this is a tight turbo gap (not the 0.044" of a naturally aspirated engine). Do not use the wrong gap - the twin-turbo needs the tig...
2. **Access the ignition coils - Remove the engine cover. The VR30's twin turbos make the** engine bay very tight - the coils are buried. You may need to remove intake piping, brackets, or other components to access the coils. Take photos before disconnecting anything -...
3. **Remove one coil at a time - Remove ONE coil at a time. Unplug the connector, unbolt the** coil, pull it straight out. The VR30's coil boots see high heat from the turbos - inspect for brittleness or cracking. Don't mix up the coils.
4. **Remove the old spark plug - The 0.031" gap is critical for the twin-turbo - if the old** plugs were gapped wider, that's a problem. The tight bay makes plug removal fiddly - use extensions and a universal joint. Don't drop anything into the open holes.
5. **Gap and hand-thread the new plug - The new NGK DILKAR8K8G comes pre-gapped at 0.031" -** verify with a wire gauge but DO NOT adjust. The tight 0.031" gap is essential for the twin-turbo's high boost - a wider gap causes misfire under boost. Hand-thread the new plug until...
6. **Torque to specification - Torque to Infiniti spec - not verified for the VR30, so check** your service manual. The twin-turbo's high cylinder pressures demand correct plug torque - loose plugs blow out, over-tight strips the head. Use a torque wrench.
7. **Reinstall the coil - Reinstall the coil - seat it firmly, bolt it down, reconnect the** connector. Reinstall any intake piping, brackets, or components you removed for access. Double-check all turbo plumbing connections - a boost leak causes drivability issu...
8. **Reassemble and test - Reinstall the engine cover. Start the engine - the VR30 should idle** smoothly. Check for misfire codes (P0300-P0306). The Q50 3.0T's twin-turbo needs the tight 0.031" gap - if you have misfires under boost, recheck the gaps. Test drive:...

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