

2015-2021 Volkswagen Golf R | Moderate | 45-75 minutes

TOOLS

16mm magnetic spark plug socket Ignition coil puller Torque wrench Ratchet and extensions Compressed air Safety glasses

PARTS

Iridium spark plugs for EA888 Gen 3 (quantity 4)

STEPS

- 1 Cool down and expose the coils - Let the engine cool completely. Disconnect the negative** battery terminal. Remove the engine cover by pulling it up off its grommets to expose the four ignition coils on top of the valve cover.
- 2 Disconnect the coil connectors - Press the release tab on each coil connector and unplug** it by the plug body, not the wires. The connectors are fragile. Set the harness aside so you have clear access to all four coils.
- 3 Pull the ignition coils - Using an ignition coil puller, pull each coil straight up with** steady pressure. They seal tightly with rubber boots. Place them in order on a clean rag.
- 4 Clear the plug wells - Blow compressed air into each plug well to clear grit before** removing plugs. Work on one cylinder at a time, keeping the others covered. Debris falling into a cylinder can cause serious damage.
- 5 Remove the old plugs - Remove each plug with a 16mm magnetic spark plug socket. Inspect** the old plugs - normal wear shows a tan insulator; oil fouling or heavy deposits point to other problems. Confirm the new plugs are pre-gapped to 0.028 inches.
- 6 Install and torque new plugs - Thread each new plug in by hand to avoid cross-threading** the aluminum head. Once finger-tight, torque to 25 Nm (18 ft-lbs). Do not exceed this - stripped threads require a helicoil repair.
- 7 Reinstall and verify - Seat each coil firmly onto its plug until it clicks, reconnect all** four connectors, refit the engine cover, and reconnect the battery. Start the engine - it should idle smoothly with no check-engine light.