2015-2021 Volkswagen Golf R/GTI Mk7 - Ignition Coil

2015-2021 Volkswagen Golf | Moderate | 1 hour | $56 DIY

TOOLS

16mm (5/8-in) deep spark plug socket, magnetic or rubber-insert 3/8-in ratchet with a long extension (about 10 in) 10mm socket or wrench Wire-type spark plug gap gauge Small pick or flat-blade screwdriver Coil-pack puller or looped zip ties (optional) Compressed air Dielectric grease (optional)

PARTS

Ignition coil, Genuine VW / Eldor 06L905110H (2015-2021 GTI and 2015-2019 Golf R, EA888 Gen 3 2.0T) 06L905110H $40.99
Spark plug, NGK Laser Platinum PLFER7A8EG, stock 94833 (GTI/Golf R; 0.8mm pre-gapped; catalogs cross the R to this same plug) PLFER7A8EG $14.99
Ignition coil upgrade, APR MS100192 red (also MS100203 grey / MS100204 blue; popular MQB coil upgrade) MS100192 $52.95

STEPS

1. **Prepare the vehicle - Park on a level surface with the engine off. If the coil boots are stuck, you can** start the engine for 1-2 minutes to warm them slightly so they rele...
2. **Remove the engine cover - Carefully lift up on the front corners of the engine cover, then lift off the** back edges. It pops straight up off its rubber grommets.
3. **Disconnect the coil connectors - Press the release tab on each ignition coil electrical connector and pull** it straight off. Push the connector slightly inward first to help the tab r...
4. **Remove the 10mm coil fasteners - Remove the 10mm nut from the top of each coil pack, then lift the wiring** harness and ground-wire eyelets away from the coils.
5. **Pull the coil packs - Pull each coil pack straight up out of the spark plug well with slow, constant** upward pressure. Rotate the coil slightly left and right first to brea...
6. **Retrieve any separated boots - If a rubber boot separates and stays down in the well, fish it out with** long-reach needle-nose pliers before continuing.
7. **Blow out the plug wells - Blow any debris out of each spark plug well with compressed air so nothing falls** into the cylinder when the plugs come out.
8. **Remove the old spark plugs - Remove each old plug with a 16mm (5/8-inch) deep spark plug socket on a long** extension. The plugs sit deep in the head, so use a recessed magnetic or...
9. **Check the gap on the new plugs - Check each new plug with a wire-type gap gauge: it should measure 0.8mm** (0.032 inch), with a factory tolerance of 0.7-0.8mm. Do not pry on the platin...
10. **Thread the new plugs in by hand - Thread each new plug in by hand for several turns (socket on a bare** extension, no ratchet) to avoid cross-threading the aluminum head. Install the pl...
11. **Tighten the spark plugs - Tighten each plug following the seating instructions printed on the plug box,** typically snug plus a fraction of a turn. No single verified torque spe...
12. **Grease the coil boots (optional) - Apply a light smear of dielectric grease to the inside of each coil** boot to make future removal easier.
13. **Reinstall the coil packs - Press each coil pack down into its well until it bottoms out. Reinstall the** ground-wire eyelets onto the coil mounting studs and tighten the 10mm coi...
14. **Reconnect the coil connectors - Push each coil electrical connector back on until it clicks.**
15. **Refit the engine cover - Press the engine cover straight down onto its grommets until it seats.**
16. **Start up and verify - Start the engine and confirm a smooth idle with no misfire codes. Plan on inspecting** or replacing plugs and coils roughly every 60,000 miles.

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