2021-2024 BMW 4 Series - Spark Plug Replacement

2021-2024 BMW 4 Series | Advanced | 1-2 hours | $115 DIY

TOOLS

Thin-wall 14mm 12-point spark plug socket Ratchet with long extensions Socket for coil hold-down bolts Flat screwdriver or pick (coil connector locks) Compressed air or shop vacuum Wire-style gap gauge Dielectric grease

PARTS

Correct spark plug set for the gasoline/ICE engine in 2021-2024 BMW 4 Series; 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. **Prep - count your plugs: four or six - 430i (2.0L turbo B46): four plugs; M440i (3.0L** turbo B58): six, same as M4's S58. Coils sit under the big black engine cover in a straight row. Work on a cold engine and disconnect the negative battery terminal.
2. **Access - cover off; B58 rear plug may need cowl trim removed - Pull the engine cover** straight up off its rubber grommets. For the B58's rearmost plug tight against the firewall, remove the plastic cowl covers and unbolt the two metal strut braces for a straight shot. Keep fasteners in a tray.
3. **Coil pack removal - slide the lock, unplug, unbolt - Slide the connector lock up or back;** pull the connector off by its base, never the wires. Remove the hold-down bolt and pull the coil up, wiggling to break the boot's grip. Lay coils out in cylinder order.
4. **Plug removal - 14mm 12-point thin-wall socket - Blow each well clean with compressed air** first. Both engines use 14mm 12-point plugs in narrow tubes - use a thin-wall socket, since a thick-wall socket jams. Spin each plug out by hand with a long extension.
5. **Install new plugs - gap per the manual, hand-thread only at first - Gap new plugs to the** manual or underhood sticker - never touch the fine center electrode. Plugs install dry. Start each by hand (aluminum cross-threads easily), then tighten to spec; over-tightening cracks the plug or strips the head.
6. **Reassembly - coils, connectors, braces, and cover - Press each coil down, snug its** hold-down bolt, and reconnect every connector - slide each lock home and tug to confirm. Reinstall cowl covers and braces, seat the engine cover on its grommets, and reconnect the battery.
7. **Verification - start, idle check, and interval note - Start the engine - confirm a smooth** idle with no warning lights. A short gentle drive should show no stumble under boost. A misfire code right after the job almost always means a coil connector's sliding lock isn't fully engaged.

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