2019-2024 BMW X7 - Spark Plug Replacement

2019-2024 BMW X7 | Advanced | 1 to 2.5 hours | $115 DIY

TOOLS

14mm thin-wall 12-point spark plug socket
3/8-inch ratchet 3-inch and 6-inch
3/8-inch extensions 3/8-inch universal
joint Torx bit set (strut-brace bolts)
10mm socket Feeler gauge Compressed air
or blower nozzle

PARTS

Correct spark plug set for the gasoline/ICE engine in 2019-2024 BMW X7; 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 engine and strip the covers - Confirm which engine your X7 has before** buying plugs: the xDrive40i runs the 3.0L B58 turbo inline-six (six plugs), while the xDrive50i and M50i run the 4.4L N63 twin-turbo V8 (eight plugs). Let the engine go fully cold - the turbos hold...
2. **Loosen the strut brace to free the rear cylinder - The B58's rearmost plug (cylinder 6)** hides under the strut-tower brace. Loosen the brace bolts (Torx) and lift the brace enough to work under it. On the N63, remove the bank covers and brace hardware, one bank at a time.
3. **Disconnect the battery - Loosen the negative battery cable clamp with a 10mm wrench, lift** the cable off the post, and tuck it aside so it cannot spring back onto the terminal. You will lose radio presets and the clock, and the transmission may shift differently du...
4. **Unbolt the coil packs and lift them out - Pull the coil straight up with a gentle twist;** the boots can stick after years of heat. Inspect each boot for cracks or carbon tracking, which cause misfires on their own.
5. **Blow debris out of every plug well - Check each well for oil, too: oil pooling around a** plug means the valve-cover gasket is seeping, and that's a separate repair worth planning. Never blow air into a well after the plug is already out.
6. **Remove the plugs with a 14mm thin-wall socket - Use a 14mm thin-wall 12-point socket (a** standard 5/8 won't fit). Feed it down on a long extension, crack and spin out the plug. For cylinder 6, use a universal joint and two extensions - don't bend a coil.
7. **Gap-check by the book, hand-start, and seat each plug - Check each new plug's gap with a** feeler gauge against the specification in your owner's manual - verify rather than trusting the box. Lower each plug in on the socket and thread it by hand as far as it will go; any early binding means cr...
8. **Reinstall the coils and brace, then verify under boost - Press each coil firmly onto its** plug until the boot seats fully, reinstall the coil bolts, and reconnect every connector until the tab clicks. Refit the strut brace and torque its hardware back down, then reinstall the engine cover. Reconn...

TORQUE

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