2004-2007 Ford Freestar - Spark Plug Replacement

2004-2007 Ford Freestar | Advanced | 1-3 hours | $115 DIY

TOOLS

Metric/SAE socket set with extensions and swivel Spark-plug socket with rubber insert or magnet Torque wrench covering the plug range Compressed air or a soft brush, dielectric grease, gloves, and eye protection 5/8-inch (16mm) spark-plug socket with rubber insert

PARTS

Correct spark plug set for the gasoline/ICE engine in 2004-2007 Ford Freestar; verify engine, heat range, gap, and VIN fitment $115.00
Coil-boot seals or ignition coils only if inspection finds damage $35.00
New upper intake manifold gaskets

STEPS

1. **Confirm engine and plug fitment - The 3.9L and 4.2L V6s take a Motorcraft platinum plug** gapped at 0.054" (SP-486) - buy six; check the VECI decal for the exact spec. The Freestar uses a coil pack with plug wires, not individual coils. Scan for misfires first.
2. **Cool and expose the plugs - Cool the engine fully. The front three plugs are accessible;** the rear three sit hard against the firewall. Rear-bank options: from below on jack stands, cowl off for top access, or intake manifold off - buy new intake gaskets first, neve...
3. **Clean the wells - Pull each wire by its boot with a gentle twist and map the routing so** every wire returns to the right cylinder. Blow debris from each well before loosening - the rear wells are deep. Work one cylinder at a time.
4. **Remove and install plugs - Remove each plug with a 5/8" socket, long extension, and** rear-bank swivel. Verify the 0.054" gap, start each plug by hand, and tighten to spec - no impact on aluminum heads. The center rear plug is hardest to reach; a wobble extension is...
5. **Reconnect and verify - Press each boot firmly onto its plug and coil-pack tower,** following your routing map. Reinstall the cowl or intake parts and reconnect the battery. Confirm a smooth idle, then drive it on the highway - misfires often show up under load.

TORQUE

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