2006-2012 BMW M5 - Spark Plug Replacement

2006-2012 BMW M5 | Advanced | 3-4 hours for the ten-plug S85 V10; about 2 hours for the eight-plug S63 V8 |

TOOLS

14mm thin-wall spark plug socket (magnetic or rubber-insert) 3/8-inch ratchet with long extensions Coil puller tool 10mm socket for cover and airbox fasteners Wire-type spark plug gap gauge Compressed air or a soft brush Short length of rubber hose (as a finger-starter)

PARTS

Correct spark plug set for the gasoline/ICE engine in 2006-2012 BMW M5; 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. **Confirm which M5 engine you have and let it cool fully - Park on level ground, set the** parking brake, and let the engine cool completely; both engines have aluminum cylinder heads, and removing plugs from a hot head risks pulling the threads out with the plug.
2. **Remove the engine covers and air filter housings - On the S85 V10, unclip and lift off** the two large plastic engine covers, then remove both air filter housings - each bank's five ignition coils sit in deep plug tubes beneath them.
3. **Disconnect and pull the rod-type ignition coils - Grip each coil and pull straight up out** of its tube - they are a friction fit and can be stubborn, so a coil puller tool helps avoid tearing the rubber boot. Keep the coil connectors clean and never force them; on the S85 the plugs also...
4. **Remove the old spark plugs - Using a 14mm thin-wall spark plug socket on a long extension** - a standard socket will jam in these deep, narrow wells - loosen each plug and lift it out.
5. **Check the gap on every new plug with a wire gauge - Never assume new plugs are gapped** correctly out of the box. Check each plug's electrode gap against the specification in your owner's manual or the under-hood emissions sticker. If adjustment is needed, bend only the ground strap gently an...
6. **Hand-start each plug, then seat the washer - Never start a plug with a ratchet, or you** risk cross-threading the soft aluminum head. Once finger-tight, snug each plug with the ratchet a quarter to a half turn further to crush the washer and seat the plug. Do not overtighten: repairing...
7. **Reinstall the coils, airboxes, and test the engine - Push each coil firmly back onto its** plug until it is fully seated, reconnect every coil connector until the locking tab clicks shut, then reinstall the air filter housings and engine covers. Double-check that no tools, rags, or fasteners w...

TORQUE

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