2009-2016 BMW Z4 - Oil and Filter Change

2009-2016 BMW Z4 | Easy | 30-60 minutes | $70 DIY

TOOLS

Car ramps Wheel chocks 17mm socket and ratchet for the drain plug Oil filter wrench or strap wrench for the filter housing Oil drain pan (at least 7-liter capacity) Funnel Torque wrench Nitrile gloves Shop towels

PARTS

MANN HU816 oil filter (with O-rings) $14.00
Castrol Edge 5W-30 synthetic engine oil (6.5L) $54.00
Drain plug crush washer $2.00

STEPS

1. **Position the Z4 on ramps - With a spotter guiding you, drive the front wheels slowly and** straight up onto sturdy car ramps, then set the parking brake and chock both rear wheels. You are ready when the car sits centered on the ramps and cannot roll.
2. **Remove the engine undertray - From underneath, unfasten the screws and clips holding the** front undertray and lower it out of the way to expose the oil pan. Collect every fastener so none go missing before reassembly.
3. **Drain the old engine oil - Place the drain pan under the sump, crack the 17mm drain plug** loose, and unscrew it by hand while keeping pressure inward until the threads release, then pull it away quickly.
4. **Replace the oil filter cartridge - Open the oil filter housing cap with the filter** wrench, lift out the old cartridge, and wipe the housing clean. Fit the new MANN HU816 cartridge with its fresh O-rings lightly oiled and seated in their grooves, then thread the cap back on....
5. **Reinstall the drain plug and refit the undertray - Fit a new crush washer on the drain** plug, thread it in by hand to protect the pan threads, and tighten it firmly with the torque wrench. Lift the undertray back into position and reinstall all of its screws and clips. You are finished when...
6. **Add 6.5 liters (6.9 quarts) of fresh 5W-30 oil - Set the funnel in the oil filler neck** and pour in 6.5 liters of Castrol Edge 5W-30, pausing occasionally so the oil can drain down into the sump. Pouring the measured amount prevents the overfilling these engines are sensitive to. The step...
7. **Start the engine and check for leaks - Start the engine and let it idle for about a** minute while you watch the oil pressure warning light go out on the dash. Shut it off and look underneath at the drain plug and filter housing for any sign of drips. You are done when the warnin...
8. **Verify the electronic oil level - The E89 has no dipstick, so check the level through the** onboard computer oil measurement with the engine at operating temperature on level ground. The step is complete when the electronic gauge confirms a correct level.
9. **Reset the oil service reminder - Use the instrument cluster service menu to reset the oil** service interval. Follow the on-screen prompts until the display confirms the reset. You are finished when the cluster shows the new full interval instead of the overdue warning.
10. **Back off the ramps and do a final check - Remove the wheel chocks, have your spotter** guide you as you back slowly and straight off the ramps, then take a short drive. The job is done when the car drives normally with no leaks and a correct oil level.

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