2013-2018 BMW M5 - Oil and Filter Change

2013-2018 BMW M5 | Moderate | 60-90 minutes | $85 DIY

TOOLS

Floor jack Jack stands (rated) Wheel chocks 8mm socket and ratchet 36mm socket Oil drain pan (10L or larger) Funnel Nitrile gloves Shop towels

PARTS

S63 oil filter cartridge element (with O-rings) $32.00
Oil drain plug crush washer $1.00
BMW LL-01 approved 0W-40 engine oil, approx 8.5 liters (8.9 qt) $52.00

STEPS

1. **Warm up and secure the car - Start the engine and idle it for two to three minutes so the** oil warms and drains quickly, then shut it off. Park on level ground, set the parking brake, and chock the rear wheels.
2. **Lift the car and remove the splash shield - Lift the front onto jack stands at the** reinforced jack pads and remove the underbody splash shield (a mix of 8mm screws and plastic fasteners) to expose the oil pan.
3. **Drain the engine oil - Place a large drain pan under the sump and remove the oil drain** plug, letting the oil flow out for 10 to 15 minutes. Fit a new aluminum crush washer on the plug when you reinstall it - the old one will not seal twice.
4. **Remove the oil filter cartridge - From the top of the engine bay, locate the black** plastic oil filter housing and unscrew its cap with a 36mm socket. Lift out the spent cartridge filter and remove the old O-rings from the cap.
5. **Fit the new filter and seals - Lubricate the new O-rings with fresh oil, seat them in the** cap grooves, and drop in the new filter cartridge. Thread the cap on by hand, then snug it with the 36mm socket without overtightening the plastic.
6. **Reinstall the drain plug and shield - Thread the drain plug in by hand first so you do** not cross-thread the aluminum pan, then tighten it firmly with the new crush washer. Reinstall the splash shield with all of its original screws and fasteners.
7. **Refill with fresh oil - Add approximately 8.5 liters (8.9 quarts) of BMW LL-01 approved** 0W-40 through the oil filler, pouring the final portion slowly. The S63 has no dipstick, so add carefully and verify electronically rather than guessing.
8. **Verify the level and reset the reminder - Start the engine, check underneath for leaks at** the plug and filter housing, then read the electronic oil level in iDrive after a few minutes of idling. Top up as needed and reset the oil service reminder in the Condition Based Service men...

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