# 2006-2010 BMW 5 Series - Oil and Filter Change



2006-2010 BMW 5 Series | Easy | 30-60 minutes | $74 DIY

**TOOLS**

Floor jack Jack stands Wheel chocks 36 mm socket 17 mm socket 3/8-inch ratchet and extension Oil drain pan (8 liters or larger) Funnel Torque wrench Nitrile gloves Shop towels

**PARTS**

BMW Longlife-01 approved 5W-30 engine oil $56.00
N52 oil filter cartridge with O-ring $16.00
Oil drain plug crush washer $2.00

## STEPS

1. **Warm the engine and park on level ground - Idle the 3.0L inline-six for about 5 minutes** so the oil thins and drains fully, then shut it off and set the parking brake. Park on level ground, since the E60's electronic oil-level check requires the car to sit flat.
2. **Remove the N52 engine cover - Open the hood and lift the acoustic engine cover straight** up off its studs to expose the top of the N52. Set the cover aside where it will not be damaged.
3. **Swap the top-mounted oil filter cartridge - Loosen the aluminum filter cap with a 36 mm** socket, turning slowly so oil inside drains back into the housing. Lift the cap out with the cartridge attached, slide the old element off, and remove the old O-ring from the cap groove. Fit the...
4. **Raise the car and remove the drain plug - Chock the rear wheels, raise the front at the** factory jacking points, and set the car on jack stands - never work under a jack alone. Place a large drain pan under the steel oil pan, remove the 17 mm drain plug, and let the oil drain to...
5. **Reinstall the drain plug with a new crush washer - Fit a new aluminum crush washer to the** drain plug - the old one will not seal a second time - and start the plug by hand to avoid cross-threading. Tighten it to the BMW specification and wipe the pan clean so any future leak shows up c...
6. **Lower the car and refill with 5W-30 - Lower the car onto level ground and pour in** approximately 6.5 liters of BMW Longlife-01 approved 5W-30 through a clean funnel. Add the final liter gradually, since draining excess oil back out is a nuisance.
7. **Check the electronic oil level - Start the engine and let it reach operating temperature,** then check the oil level in the instrument cluster service menu. The electronic sensor takes a minute or two to measure - add small amounts until the gauge reads maximum, never abo...
8. **Reset the oil service indicator - Reset the engine oil service item through the cluster** service menu so the condition-based service counter restarts. Take a short drive, then recheck the drain plug and filter housing for leaks.

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