

2006-2010 BMW 5 Series | Easy | 30-60 minutes

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
N52 oil filter cartridge with O-ring
Oil drain plug crush washer

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. The aluminum oil filter housing cap is at the front of the engine. 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.