



BMW 3 Series E90 - E93 Oil Change

Instructions on conducting a BMW 3 Series E90 - E93 Oil Change. Credit to: e90wraith
E90Post.com

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INTRODUCTION

Instructions on conducting a BMW 3 Series E90 - E93 Oil Change.

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TOOLS:

- [Vehicle Ramps](#) (1)
- [3/8" Ratchet](#) (1)
- [17mm Deep Socket](#) (1)
- [BMW Oil Filter Wrench](#) (1)
- [Nitrile Disposable Gloves](#) (1)



PARTS:

- [Oil Filter Kit](#) (1)
- [Mobil 1 5w30](#) (7)

Step 1 — Jacking up Vehicle



- Rhino Ramps work really well for this type of job.

⚠ Chock rear wheels and make sure parking brake is active!

Step 2 — Remove Oil Filter from Engine Bay



- Using an 86MM 16 Flute Oil Filter wrench adapter... you can remove the filter housing.

Step 3 — Find the Drain Bolt



- Locate Oil Drain Plug Access Door, remove panel to expose drain plug

Step 4 — Loosen the Bolt and Drain the Oil



- Loosen the bolt and drain the oil into a pan. About 7 quarts (6.5 L) will drain out.
- Replacing the Filter: Let the oil drain for a few minutes. Meanwhile, you can replace the oil filter. The old oil filter next to the new filter is shown below.
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Step 5 — Remove the Two O-Rings and the Filter



- Inside the filter box, there should be two rubber O-rings (small and large) and one copper crush washer
- Remove the two O-rings and the filter from the filter housing, and insert the new ones. It's a little tricky removing the O-rings, but don't use a screwdriver since it can damage the housing. The new assembled filter housing should look like in the photo.
- Putting it back together: Screw the oil filter cap back on. Be sure the rubber O-rings, especially the large one, are in their correct grooves. I accidentally placed the large one inside a wrong groove once, and oil started gushing out of the housing.
- Go underneath the car again, and screw the drain bolt back in. Make sure you pry off the old crush washer, and use the new copper crush washer. Secure the trap door.
- Finally, put ~6.9 quarts of BMW Synthetic 5W30 oil in. Once finished, secure the oil cap. Start the engine and check for any leaks. Drive off the ramp and drive for a few miles because the on-board computer needs a few minutes to get an accurate reading of the oil level. Check the oil level through the on-board computer, and top off as needed.
- You're done! Simple!