

## SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

### Important!

This replacement procedure can be used for:

BMW 5 Saloon (F10) 520i 2.0, BMW 5 Saloon (F10) 535i xDrive 3.0, BMW 5 Saloon (F10) 528i 2.0, BMW 5 Saloon (F10) 528i xDrive 2.0, BMW 5 Saloon (F10) 530i 3.0, BMW 5 Saloon (F10) ActiveHybrid, BMW 5 Saloon (F10) 523i 2.5, BMW 5 Saloon (F10) 523i 3.0, BMW 5 Saloon (F10) 535i 3.0, BMW 5 Saloon (F10) 528 i 3.0, BMW 5 Saloon (F10) 520i 1.6

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: BMW 3 Coupe (E92) 330i 3.0

## REPLACEMENT: ENGINE OIL AND FILTER – BMW 5 SALOON (F10). TOOLS YOU MIGHT NEED:



- All-purpose cleaning spray
- Drive socket # 17
- Oil filter cup socket 86-16F
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Funnel
- Oil drain pan
- Microfibre towel
- Fender cover

**Buy tools**

### Replacement: engine oil and filter – BMW 5 Saloon (F10). AUTODOC recommends:

- Replace the oil filter every time when changing motor oil.
- Use only new O-rings during installation.
- Wear gloves to prevent contact with hot liquid.
- Please note: all work on the car – BMW 5 Saloon (F10) – should be done with the engine switched off.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

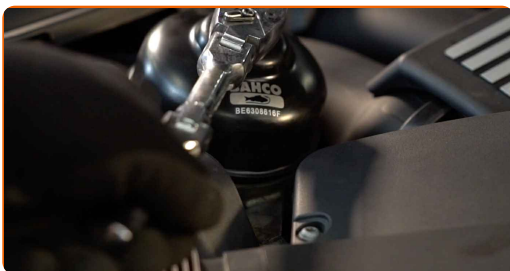
1 Open the hood.

2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3 Unscrew the oil filler plug.

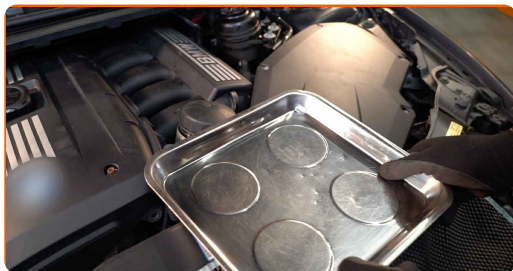


4 Unscrew the filter housing cap together with the old filter element. Use the 86-16F socket. Use a ratchet wrench.



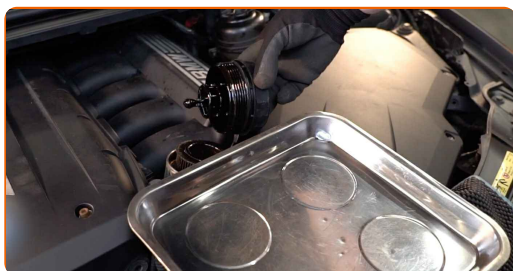
5

Prepare a container for the old oil filter.



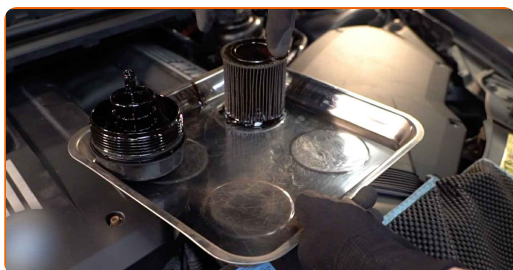
6

Remove the oil filter.



7

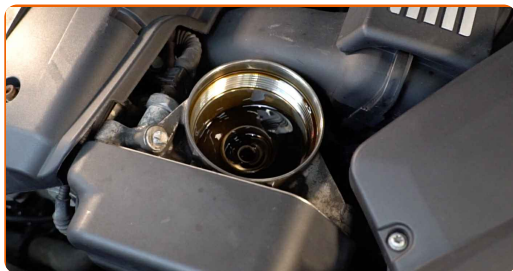
Put the old oil filter in the container.



Replacement: engine oil and filter – BMW 5 Saloon (F10). AUTODOC experts recommend:

- Move up the container. The oil starts to drain out of the drainage hole immediately after you have removed the oil filter.

- 8 Cover the oil filter housing with a microfibre towel to prevent dirt and foreign objects from getting into the system.



- 9 Lift the car using a jack or place it over an inspection pit.

### Replacement: engine oil and filter – BMW 5 Saloon (F10). Tip:

- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.
- All work should be done with the engine stopped.

- 10 Unscrew the fastener of the drain plug access panel. Use a flat screwdriver.

- 11 Remove the drain plug access panel.

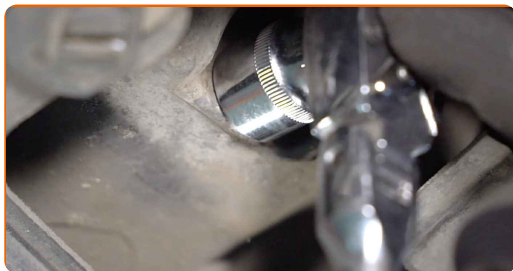


- 12 Put a waste oil container with at least 7 l capacity under the drainage hole.



13

Unscrew the drain plug. Use a drive socket #17. Use a ratchet wrench.



14

Drain the used oil.

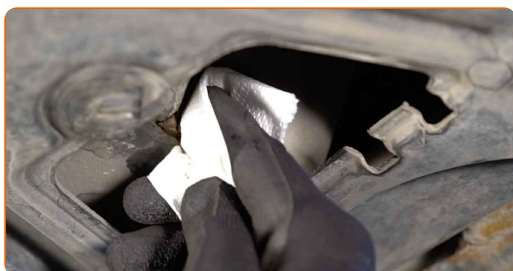


Replacement: engine oil and filter – BMW 5 Saloon (F10). AUTODOC experts recommend:

- Caution! The oil may be hot.
- Wait until the oil has completely drained from the drainage hole.

15

Clean the area of the oil pan drainage hole.





- 16** Screw in the new drainage plug and tighten it. Use a drive socket #17. Use a torque wrench. Tighten it to 30 Nm torque.



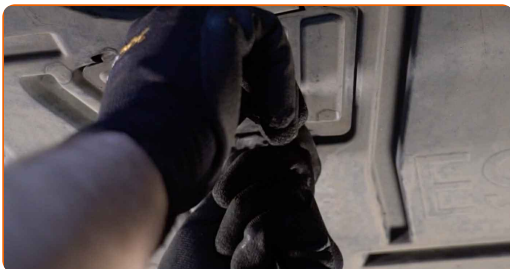
- 17** Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



- 18** Install the drain plug access panel.

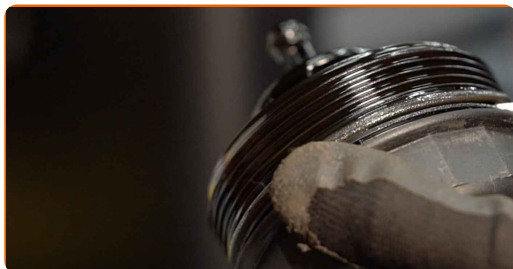


- 19** Screw in the fastener of the drain plug access panel. Use a flat screwdriver.

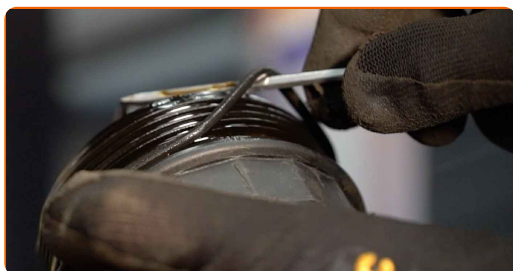


- 20** Lower the car.

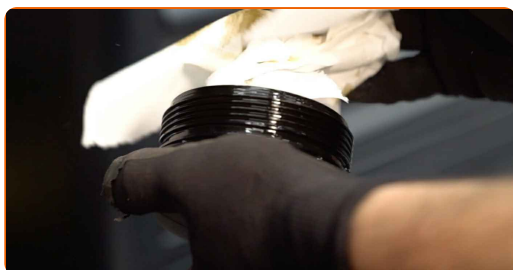
- 21 Detach the oil filter from the filter cover.



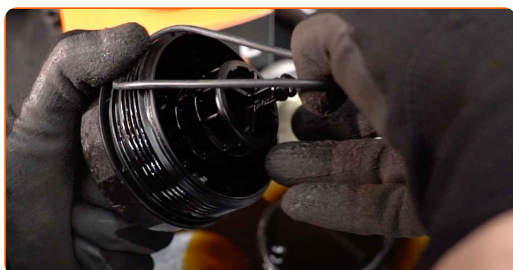
- 22 Remove old o-rings from the oil filter cover. Use a flat screwdriver.



- 23 Clean the oil filter housing cap. Use all-purpose cleaning spray.



- 24 Install new O-rings and a new oil filter to their mounting seats on the filter cover.



Please note!

- Make sure to install the filter correctly. Don't mix up the sides of the part.



- 25 Remove the microfibre towel from the oil filter housing.



- 26 Lubricate the rubber seal of the new filter with a little amount of fresh oil.



- 27 Screw the new filter into its place.



- 28 Install a new oil filter housing cover and tighten it. Use the 86-16F socket. Use a torque wrench. Tighten it to 25 Nm torque.



- 29 Remove the oil filler cap. Insert the funnel.



30

Pour new oil into the engine in the amount recommended by the car manufacturer.

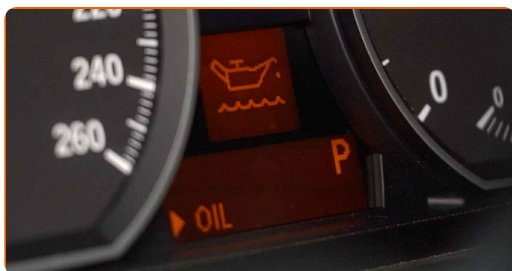


Replacement: engine oil and filter – BMW 5 Saloon (F10). AUTODOC recommends:

- Use the oil recommended by the manufacturer.

31

Check the oil level using the dipstick. Top up oil if necessary.



Please note!

- The oil level should be between the Min and Max marks.

32

Tighten the oil filler cap.

