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How to change engine oil and filter on **BMW 5 Saloon (F10)** – replacement guide







#### SIMILAR VIDEO TUTORIAL



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

### i 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) 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

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## 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** 

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## 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:

Open the hood.

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- Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.
- Unscrew the oil filler plug.



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



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5 Prepare a container for the old oil filter.



Remove the oil filter.



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.

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



2 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.
- Unscrew the fastener of the drain plug access panel. Use a flat screwdriver.
- Remove the drain plug access panel.



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



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



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.

Clean the area of the oil pan drainage hole.



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



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



18 Install the drain plug access panel.



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



Lower the car.

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Detach the oil filter from the filter cover.



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



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



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.

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Remove the microfibre towel from the oil filter housing.



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



Screw the new filter into its place.



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.



Remove the oil filler cap. Insert the funnel.



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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.
- 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.
- Tighten the oil filler cap.



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- Run the engine for a few minutes. After the oil pressure warning light goes out, stop the engine.
- Check the oil level 5 minutes after the stop of the engine operation using a dipstick and add oil if necessary.



#### Please note!

- The oil level should be between the Min and Max marks.
- Make sure that the oil filler cap is properly tightened.
- Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.
- Remove the fender protection cover.
- Close the hood.

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

- Note that oil pressure warning light, which indicates insufficient pressure in the lubrication system, may be on for a longer time than usual. After a few seconds, the oil will fill all the channels, and the light will go out.
- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.



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