



How to change engine oil  
and filter on **BMW Z4**  
**Coupe (E86)** –  
replacement guide

## 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 Z4 Coupe (E86) 3.0 si

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 Z4 COUPE (E86). 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 Z4 Coupe (E86). AUTODOC recommends:

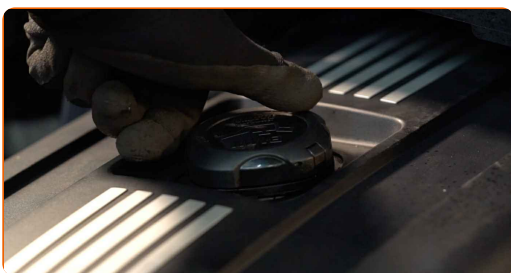
- Replace the oil filter every time when changing motor oil.
- Use only new O-rings during installation.
- Wear gloves to prevent contact with hot liquid.
- Please note: all work on the car – BMW Z4 Coupe (E86) – should be done with the engine switched off.

**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

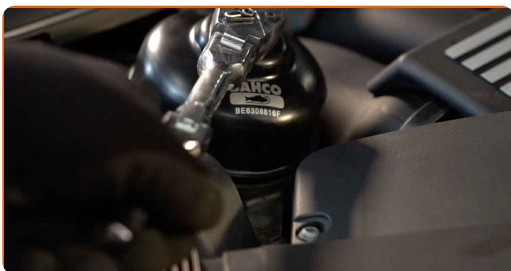
**1** Open the hood.

**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.



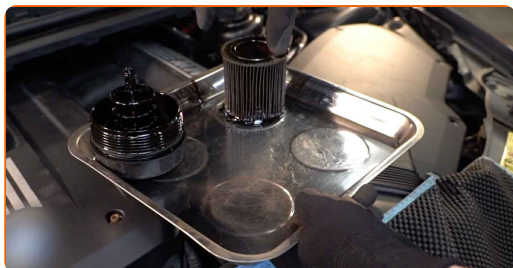
**5** Prepare a container for the old oil filter.



**6** Remove the oil filter.



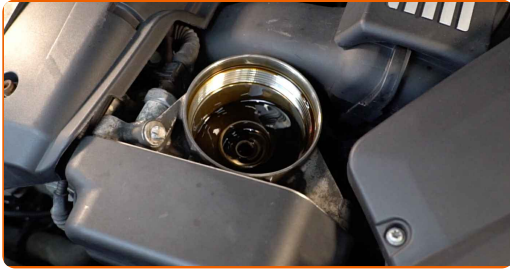
**7** Put the old oil filter in the container.



Replacement: engine oil and filter – BMW Z4 Coupe (E86). 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 Z4 Coupe (E86). Tip:**

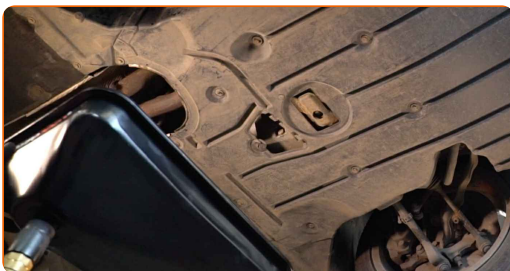
- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.
- All work should be done with the engine stopped.

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

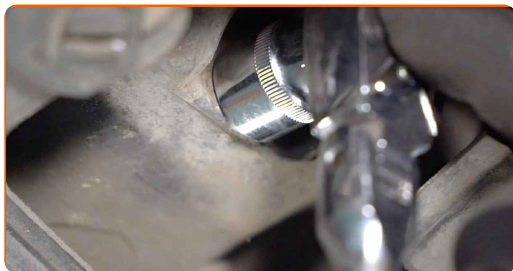
**11** Remove the drain plug access panel.



**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.



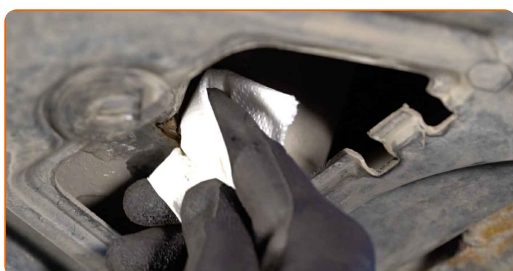
**14** Drain the used oil.



Replacement: engine oil and filter – BMW Z4 Coupe (E86). 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.



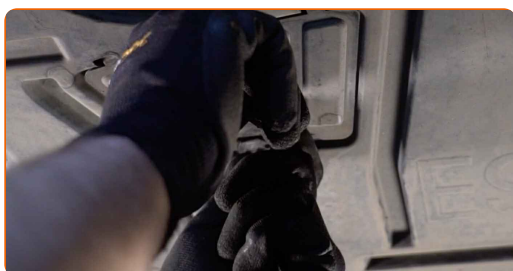
- 17 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



- 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 Z4 Coupe (E86). 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.



**33** Run the engine for a few minutes. After the oil pressure warning light goes out, stop the engine.

**34** 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.

**35** Remove the fender protection cover.

**36** Close the hood.

Replacement: engine oil and filter – BMW Z4 Coupe (E86). 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.

**WELL DONE!** 

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