



How to change engine oil  
and filter on **MERCEDES-  
BENZ E-Class Platform /  
Chassis (VF210)** –  
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:

- MERCEDES-BENZ E-Class Platform / Chassis (VF210) E 220 CDi (210.606),
- MERCEDES-BENZ E-Class Platform / Chassis (VF210) E 270 CDI (210.616)

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: MERCEDES-BENZ C-Class Saloon (W204) C 220 CDI (204.008)

**REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES-BENZ E-CLASS PLATFORM / CHASSIS (VF210). TOOLS YOU MIGHT NEED:**



- Wire brush
- All-purpose cleaning spray
- Torque wrench
- Drive socket # 13
- Torx bit E11
- Oil filter cup socket 76-14F
- Ratchet wrench
- Flat screwdriver
- Funnel
- Oil drain pan
- Fender cover

**Buy tools**

Replacement: engine oil and filter – MERCEDES-BENZ E-Class Platform / Chassis (VF210). Tip from AUTODOC:

- Replace the oil filter every time when changing motor oil.
- Wear gloves to prevent contact with hot liquid.
- Please note: all work on the car – MERCEDES-BENZ E-Class Platform / Chassis (VF210) – 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.

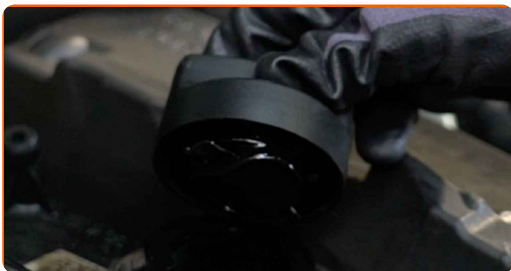
**3** Remove the engine cover.



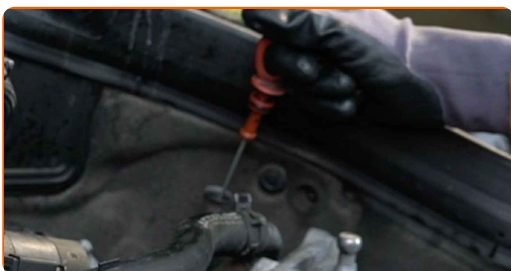
**AUTODOC recommends:**

- Replacement: engine oil and filter – MERCEDES-BENZ E-Class Platform / Chassis (VF210). Do not use excessive force when removing the part as this may damage it.

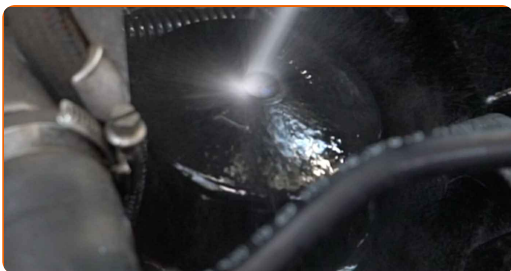
4 Unscrew the oil filler plug.



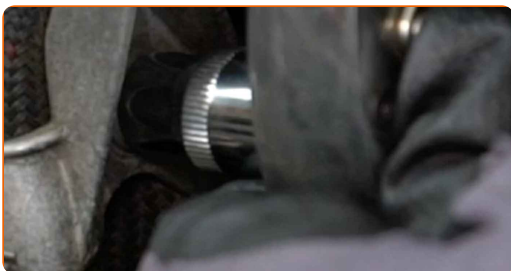
5 Pull up the oil dipstick.



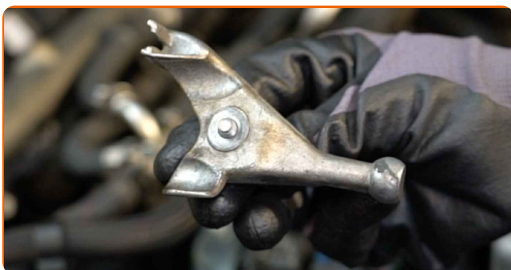
6 Clean the oil filter housing cap. Use all-purpose cleaning spray.



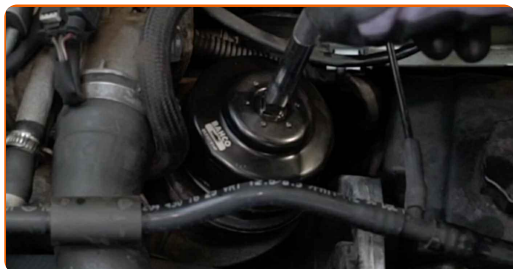
7 Unscrew the bracket fastener. Use Torx E11. Use a ratchet wrench.



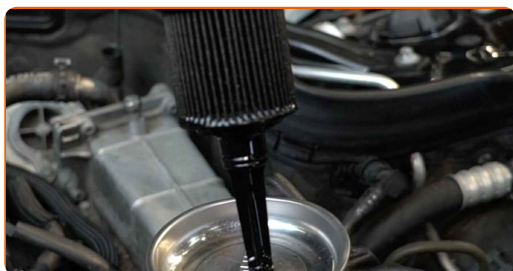
8 Remove the bracket.



**9** Unscrew the filter housing cap together with the old filter element. Use the 76-14F socket. Use a ratchet wrench.



**10** Take the oil filter out of its housing.



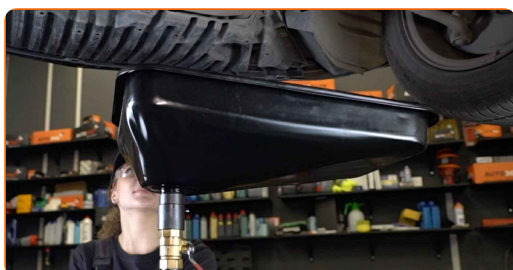
**11** Put the old oil filter in the container.

**12** Lift the car using a jack or place it over an inspection pit.

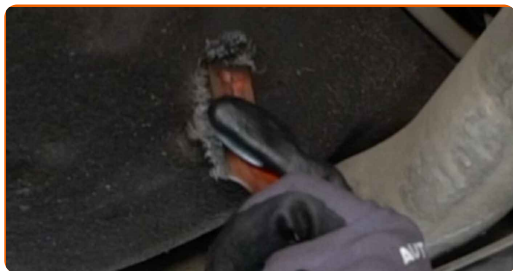
**AUTODOC recommends:**

- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.

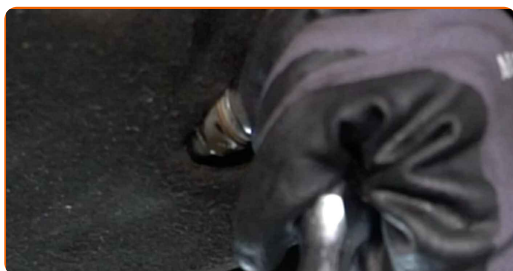
**13** Put a waste oil container with at least 7 l capacity under the drainage hole.



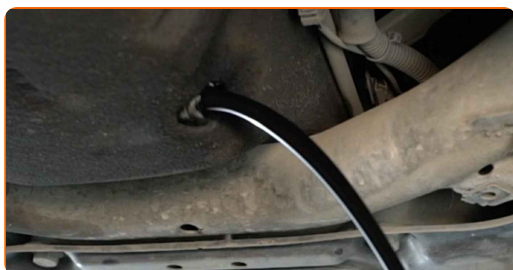
**14** Clean the area of the oil pan drainage hole. Use a wire brush. Use all-purpose cleaning spray.



**15** Unscrew the drain plug. Use a drive socket #13. Use a ratchet wrench.



**16** Drain the used oil.



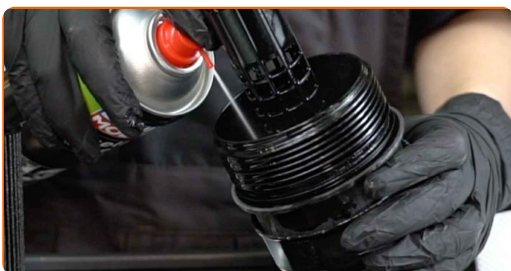
**Replacement: engine oil and filter – MERCEDES-BENZ E-Class Platform / Chassis (VF210). Tip from AUTODOC experts:**

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

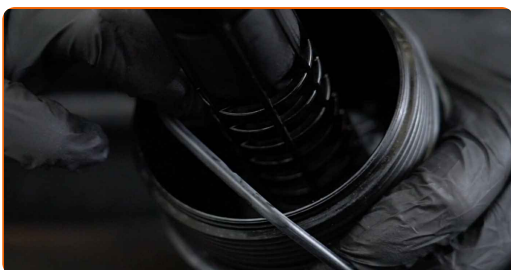
**17** Remove old o-rings from the oil filter cover. Use a flat screwdriver.



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



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



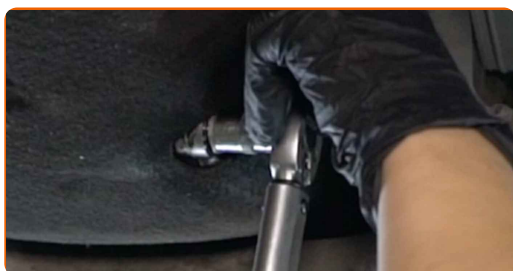
**Please note!**

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

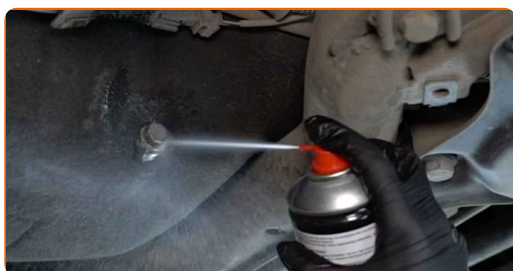
**20** Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



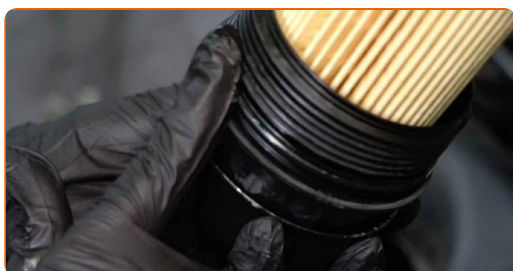
- 21 Screw in the new drainage plug and tighten it. Use a drive socket #13. Use a torque wrench. Tighten it to 30 Nm torque.



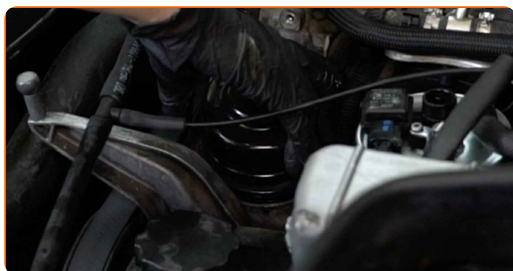
- 22 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



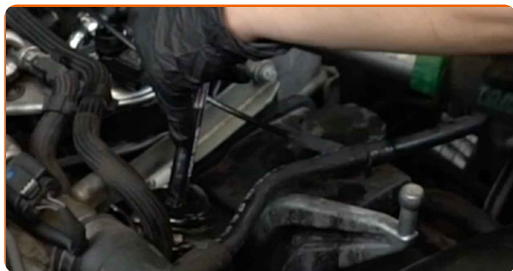
- 23 Lubricate the rubber seal of the new filter with a little amount of fresh oil.



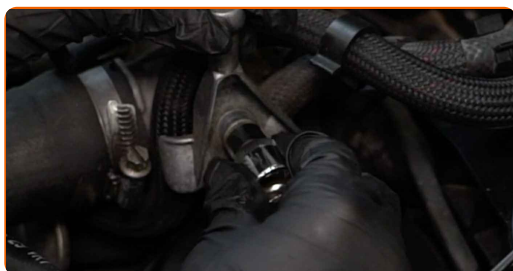
- 24 Install the cover of the oil filter housing and screw it on.



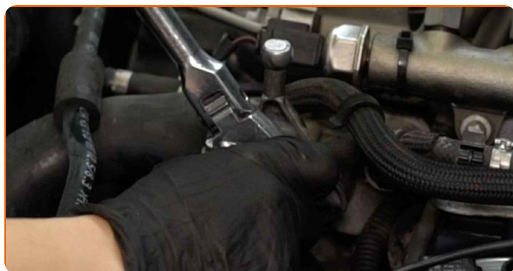
**25** Tighten the oil filter cap. Use the 76-14F socket. Use a torque wrench. Tighten it to 25 Nm torque.



**26** Install the bracket.

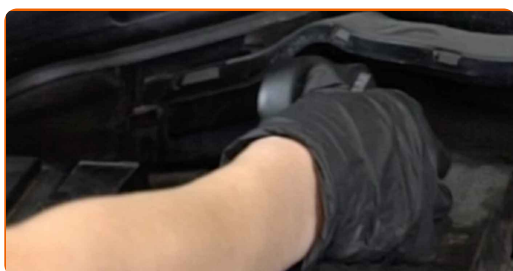


**27** Screw in the bracket fastener. Use Torx E11. Use a ratchet wrench.



**28** Lower the car.

**29** Remove the oil filler cap.



**30** Insert the funnel.



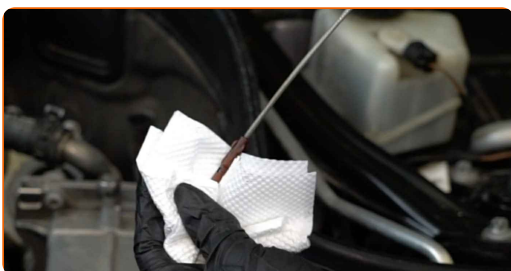
**31** Pour new oil into the engine in the amount recommended by the car manufacturer.



Replacement: engine oil and filter – MERCEDES-BENZ E-Class Platform / Chassis (VF210). Tip from AUTODOC:

- Use the oil recommended by the manufacturer.

**32** 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.

**33** Install the oil filler cap.



**34** Tighten the oil filler cap.



**35** Run the engine for a few minutes.

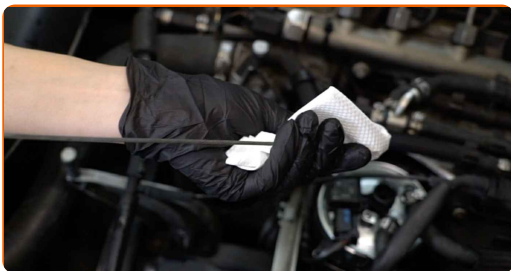


**36** After the oil pressure warning light goes out, stop the engine.

**AUTODOC recommends:**

- 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.

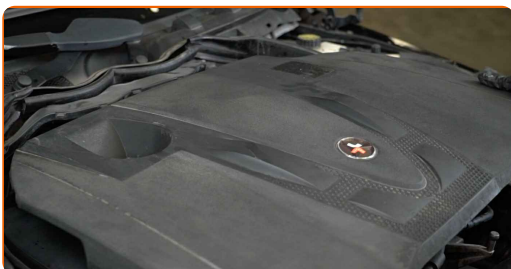
**37** Check the oil level 5 minutes after the stop of the engine operation using a dipstick and add oil if necessary.



**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.

**38** Install the engine cover and secure it.



**AUTODOC recommends:**

- Replacement: engine oil and filter – MERCEDES-BENZ E-Class Platform / Chassis (VF210). Do not use excessive force during installation. This may damage the part.

39 Remove the fender protection cover.

40 Close the hood.

Replacement: engine oil and filter – MERCEDES-BENZ E-Class Platform / Chassis (VF210). AUTODOC recommends:

- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

**WELL DONE!** 

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