



How to change engine oil  
and filter on **MERCEDES-  
BENZ S-Class Saloon  
(W140)** – 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 S-Class Saloon (W140) S 280 (140.028), MERCEDES-BENZ S-Class Saloon (W140) 300 SE 2.8 (140.028), MERCEDES-BENZ S-Class Saloon (W140) 300 SE/SEL/S320 3.2 (140.032, 140.033), MERCEDES-BENZ S-Class Saloon (W140) S320

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 (W203) C 200 Kompressor (203.045)

REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES-BENZ S-CLASS SALOON (W140). LIST OF THE TOOLS YOU'LL NEED:



- Oil filter cup socket 65/67-14f
- Drive socket # 8
- Drive socket # 13
- Ratchet wrench
- Torque wrench
- Flat screwdriver
- Oil drain pan
- Funnel
- Microfibre towel
- Fender cover

**Buy tools**

**AUTODOC recommends:**

- Replace the oil filter every time when changing motor oil.
- All work should be done with the engine stopped.
- Wear gloves to prevent contact with hot liquid.

**REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES-BENZ S-CLASS SALOON (W140). USE THE FOLLOWING PROCEDURE:**

**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.

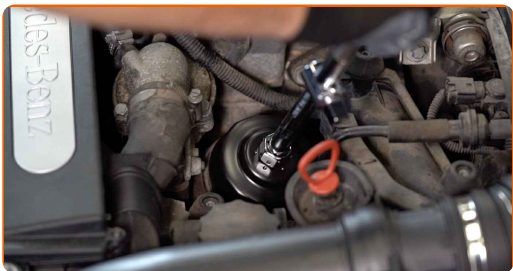


**Replacement: engine oil and filter – MERCEDES-BENZ S-Class Saloon (W140).  
Tip from AUTODOC:**

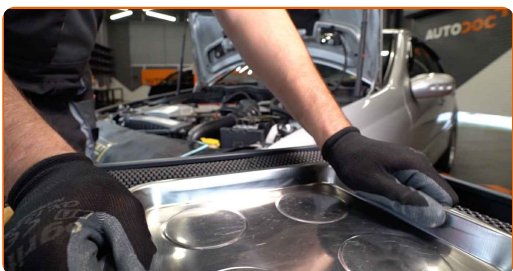
- Raise the engine cover, holding it on two sides simultaneously.

**4** Clean the oil filter housing cap.

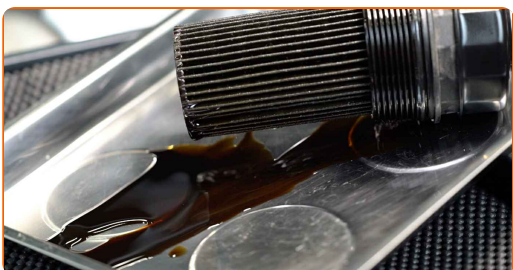
**5** Unscrew the filter housing cap together with the old filter element. Use the 76-14F socket. Use a ratchet wrench.



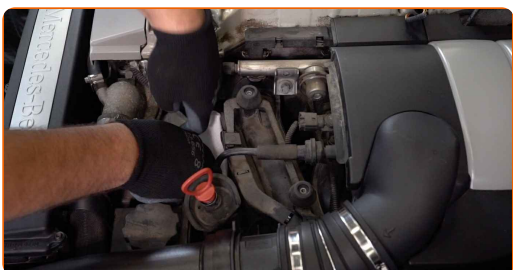
**6** Prepare a container for the old oil filter.



**7** Remove the filter element from the filter housing. Put the old filter cartridge in the container.

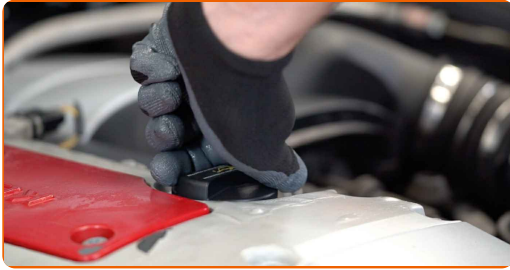


**8** Cover the oil filter housing with a microfibre towel to prevent dirt and foreign objects from getting into the system.



9

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

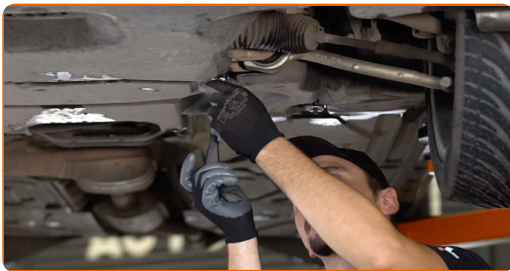


**AUTODOC recommends:**

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

10

Unscrew the oil filler plug.



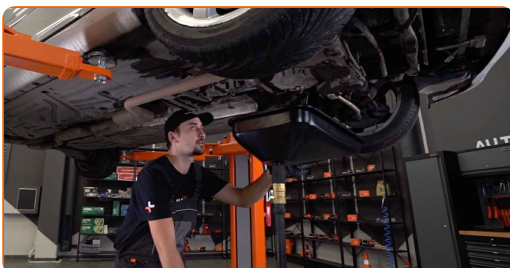
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Undo the fasteners of the oil pan lower cover. Use a drive socket #8. Use a ratchet wrench.

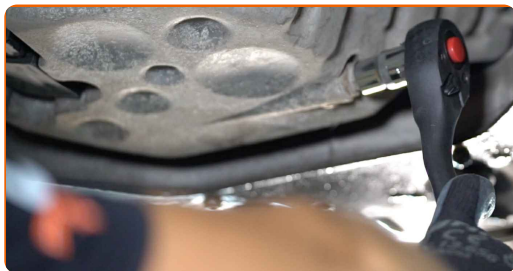


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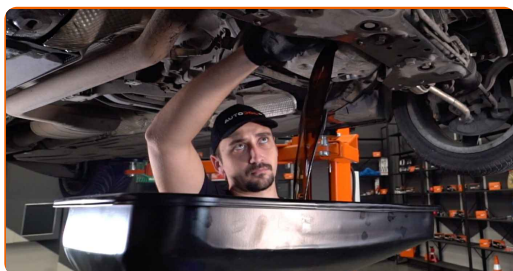
Remove the oil pan cover (2 pieces).



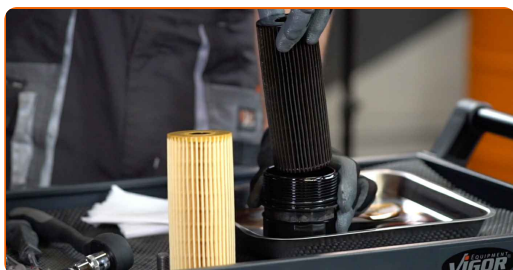
**13** Put a waste oil container with at least 8 l capacity under the drainage hole.



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



**15** Drain the used oil.



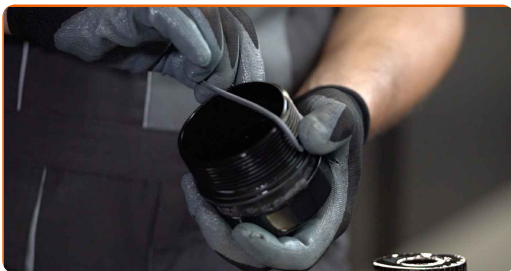
Replacement: engine oil and filter – MERCEDES-BENZ S-Class Saloon (W140).  
 Tip from AUTODOC experts:

- Caution! The oil may be hot.

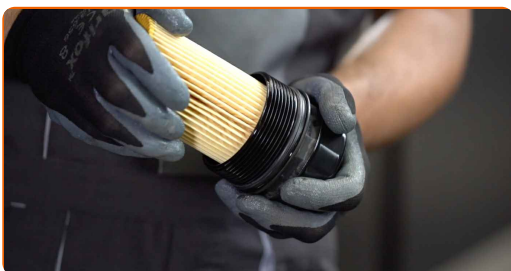
**16** Detach the oil filter from the filter cover.



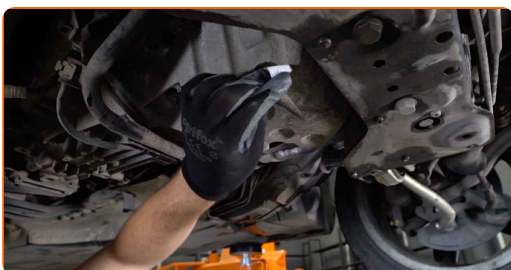
**17** Remove the oil filter cover O-ring. Use a flat screwdriver.



**18** Install a new O-ring to its mounting seat on the filter cover.



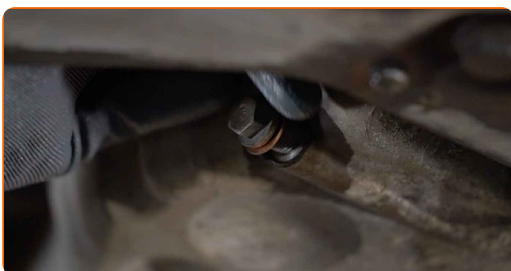
**19** Install the new oil filter to the mounting seat on the filter cover.



**Please note!**

- Make sure to install the filter correctly. Don't mix up the sides of the part.
- Wait until the oil has completely drained from the drainage hole.

**20** Clean the area of the oil pan drainage hole.

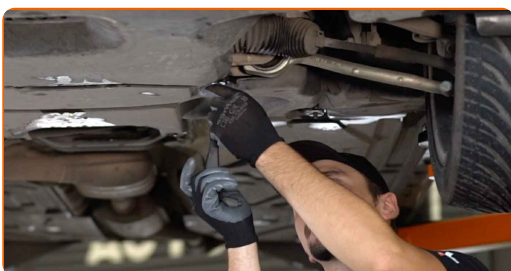




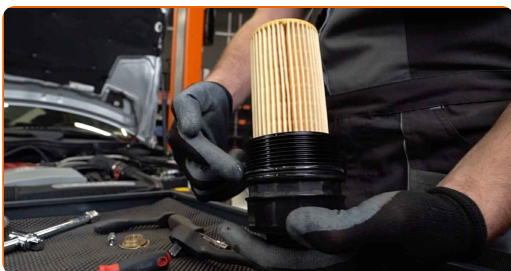
- 21 Screw in the new drainage plug and tighten it. Use a drive socket #13. Use a torque wrench. Tighten it to 30 Nm torque.



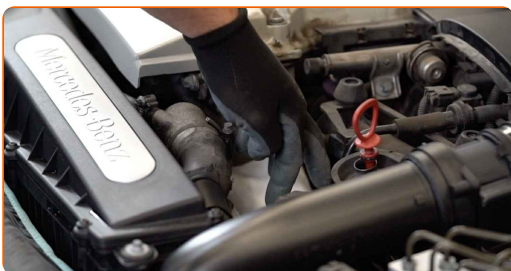
- 22 Reinstall the oil pan lower cover (2 pieces).



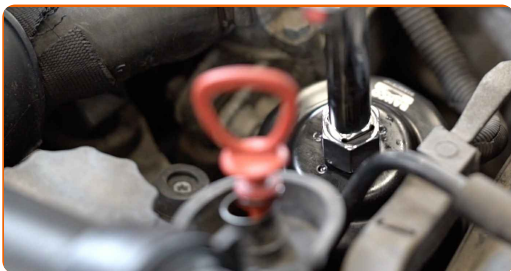
- 23 Tighten the fasteners of the oil pan lower cover. Use a drive socket #8. Use a ratchet wrench.



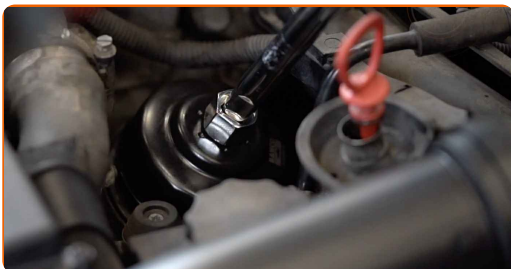
- 24 Lower the car.



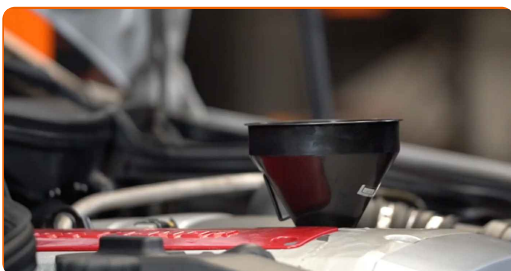
- 25 Lubricate the rubber seal of the new filter with a little amount of fresh oil.



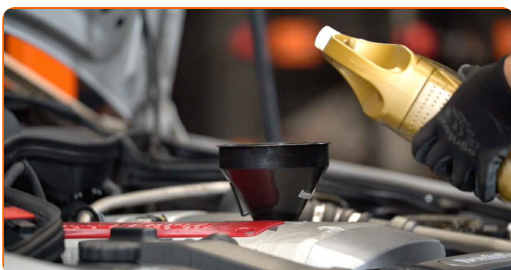
**26** Remove the microfibre towel from the oil filter housing.



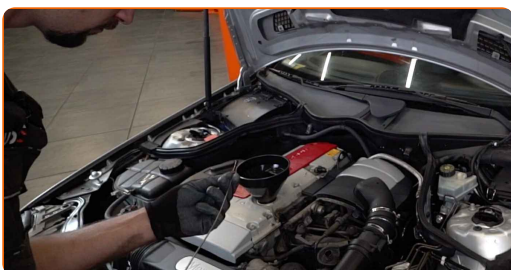
**27** Screw the new filter into its place.



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



**29** Unscrew the oil filler plug. Insert the funnel.



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

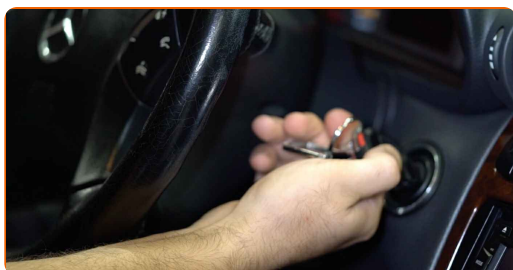


Replacement: engine oil and filter – MERCEDES-BENZ S-Class Saloon (W140).  
AUTODOC experts recommend:

- Use the oil recommended by the manufacturer.

31

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

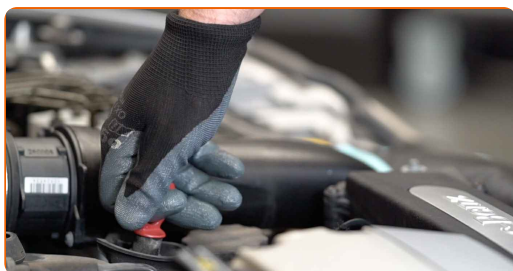


Please note!

- 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** Install the engine cover and secure it.

**36** Remove the fender protection cover. Close the hood.

**Replacement: engine oil and filter – MERCEDES-BENZ S-Class Saloon (W140).  
Tip:**

- 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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