



How to change engine oil  
and filter on **ALPINA B3**  
**Convertible (E46)** –  
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:

ALPINA B3 Convertible (E46) 3.3, ALPINA B3 Convertible (E46) 3.4 S

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 Saloon (E36) 323i 2.5

## REPLACEMENT: ENGINE OIL AND FILTER – ALPINA B3 CONVERTIBLE (E46). TOOLS YOU MIGHT NEED:



- Wire brush
- All-purpose cleaning spray
- Torque wrench
- Drive socket # 19
- Drive socket # 36
- Ratchet wrench
- Tap wrench
- Flat screwdriver
- Fluid container
- Funnel
- Fender cover

[Buy tools](#)

## Replacement: engine oil and filter – ALPINA B3 Convertible (E46). 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 – ALPINA B3 Convertible (E46) – should be done with the engine switched off.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

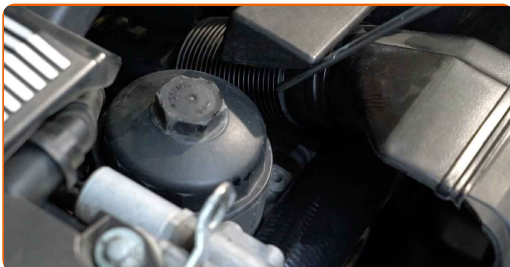
1 Open the hood.

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

3 Unscrew the oil filler plug.



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



- 5 Unscrew the filter housing cap together with the old filter element. Use a drive socket #36. Use a ratchet wrench.



- 6 Prepare a container for the old oil filter.



- 7 Put the old oil filter in the container.



### AUTODOC recommends:

- 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.

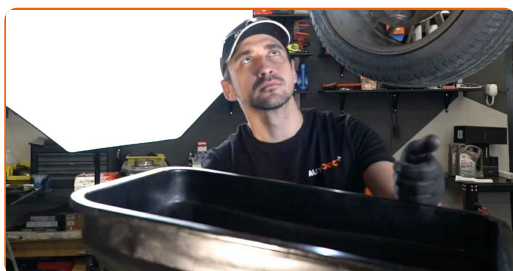
- 9 Lift the car using a jack or place it over an inspection pit.

## Replacement: engine oil and filter – ALPINA B3 Convertible (E46). 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.

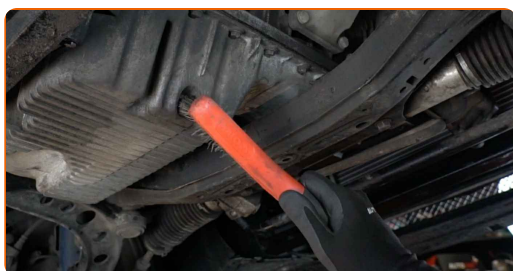
10

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



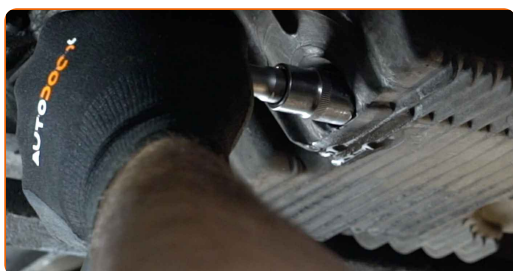
11

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

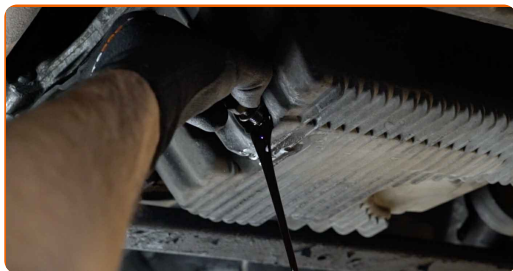


12

Unscrew the drain plug. Use a drive socket #19. Use a tap wrench.



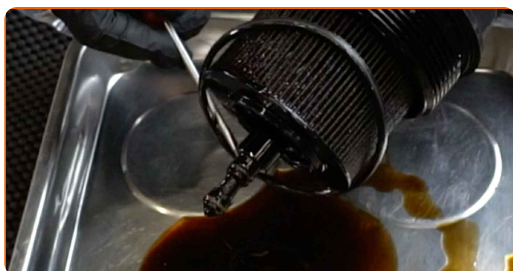
13 Drain the used oil.



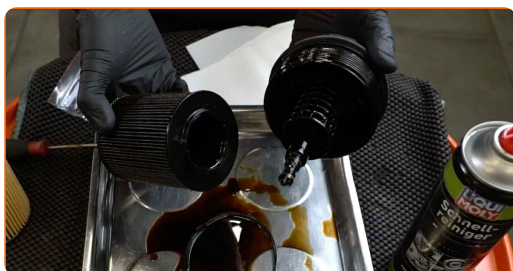
Replacement: engine oil and filter – ALPINA B3 Convertible (E46). AUTODOC recommends:

- Caution! The oil may be hot.

14 Remove the oil filter cover O-ring.



15 Detach the oil filter from the filter cover. Use a flat screwdriver.



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





- 17 Install the new oil filter to the mounting seat on the filter cover.

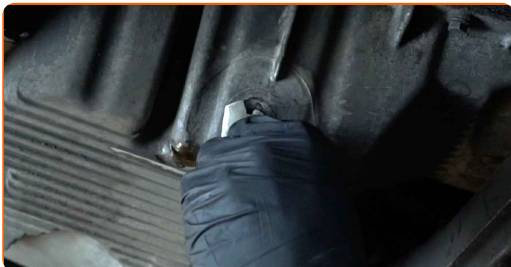


- 18 Install a new O-ring to its mounting seat on the filter cover.

### 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.

- 19 Clean the area of the oil pan drainage hole.

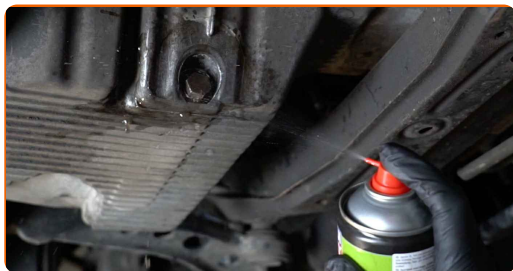


- 20 Screw in the new drainage plug and tighten it. Use a drive socket #19. Use a torque wrench. Tighten it to 25 Nm torque.



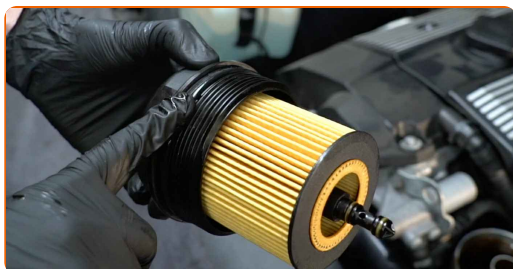


- 21 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



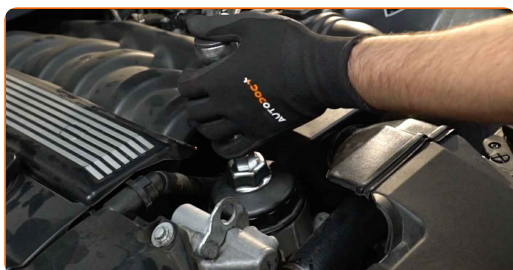
- 22 Lower the car.

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



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

- 25 Install a new oil filter housing cover and tighten it. Use a drive socket #36. Use a torque wrench. Tighten it to 25 Nm torque.



- 26 Remove the oil filler cap.



27

Insert the funnel.



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Pour oil into the engine through the filler. Required amount of oil: 6,5 l.

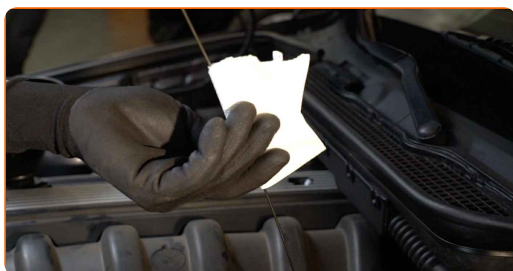


Replacement: engine oil and filter – ALPINA B3 Convertible (E46). AUTODOC experts recommend:

- Use the oil recommended by the manufacturer.

29

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.

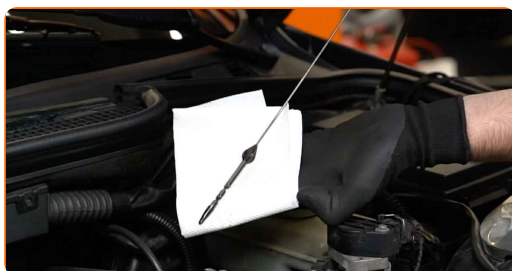
**30** Install the oil filler cap.



**31** Tighten the oil filler cap.

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

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



**Make sure that the oil filler cap is properly tightened.**

- The oil level should be between the Min and Max marks.
- Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

**34** Remove the fender protection cover.

**35** Close the hood.

### Replacement: engine oil and filter – ALPINA B3 Convertible (E46). 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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