







How to change: BMW E46

Convertible engine oil and filter – replacement guide



VIDEO TUTORIAL

(i) Important!

This replacement procedure can be used for: BMW 3 (E46) 318 i, BMW 3 Compact (E46) 318 ti, BMW 3 Convertible (E46) 318 Ci, BMW 3 Coupe (E46) 318 Ci, BMW 3 Touring (E46) 318 i

The steps may slightly vary depending on the car design.

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REPLACEMENT: ENGINE OIL AND FILTER – BMW E46 CONVERTIBLE. TOOLS YOU MIGHT NEED:



- All-purpose cleaning spray
- Oil filter cup socket 86/16 F
- Drive socket # 17
- Ratchet wrench
- Torque wrench

- Flat Screwdriver
- Funnel
- Oil drain pan
- Microfibre towel
- Fender cover

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AUTODOC recommends:

- Replace the oil filter every time when changing motor oil.
- Please note: all work on the car BMW E46 Convertible should be done with the engine switched off.
- Wear gloves to prevent contact with hot liquid.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1



Open the hood.

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

3



Unscrew the oil filler plug.

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

Replacement: engine oil and filter – BMW E46 convertible. Tip:

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

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Put a waste oil container with at least 6 I 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 E46 Convertible. Tip from AUTODOC:

• Caution! The oil may be hot.

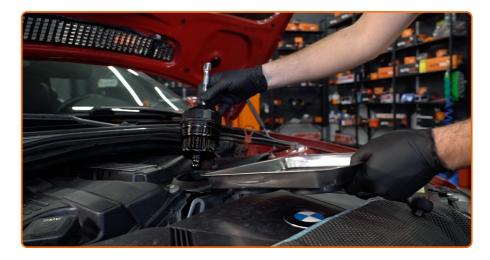
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Unscrew the oil filter. Use the 86/16 F socket.

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Remove the oil filter.

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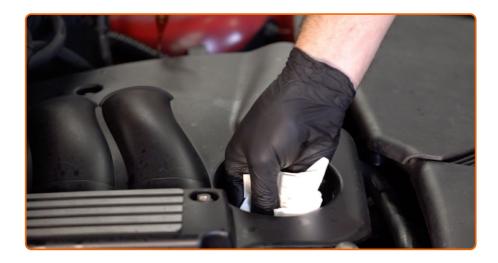


Prepare a container for the old oil filter. Put the old oil filter in the container.

Replacement: engine oil and filter – BMW E46 Convertible. 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.

11



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

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Detach the oil filter from the filter cover.

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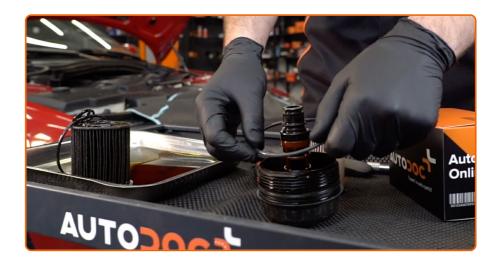
Remove old o-rings from the oil filter cover. Use a flat screwdriver.

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

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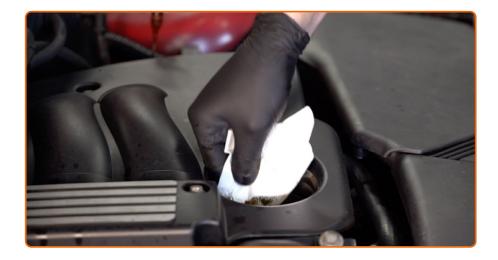
Install new O-rings and a new oil filter to their mounting seats on the filter cover.

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.

17



Clean the oil filter seat.

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

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Screw the new filter into its place.

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Screw the cap. Use the 86/16 F socket. Use a torque wrench. Tighten it to 25 Nm torque.

Replacement: engine oil and filter – BMW E46 Convertible. Tip from AUTODOC experts:

• Wait until the oil has completely drained from the drainage hole.

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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.

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

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Lower the car.

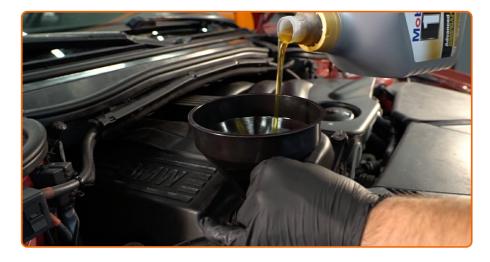
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Remove the oil filler cap. Insert the funnel.

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Pour oil into the engine through the filler. Required amount of oil: 5.5 L.

Replacement: engine oil and filter – BMW E46 Convertible. Professionals recommend:

• Use the oil recommended by the manufacturer.

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

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Please note!

• The oil level should be between the Min and Max marks.

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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.

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

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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.

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Remove the fender protection cover.

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Close the hood.

Replacement: engine oil and filter – BMW E46 Convertible. 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.
- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

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DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES

NO

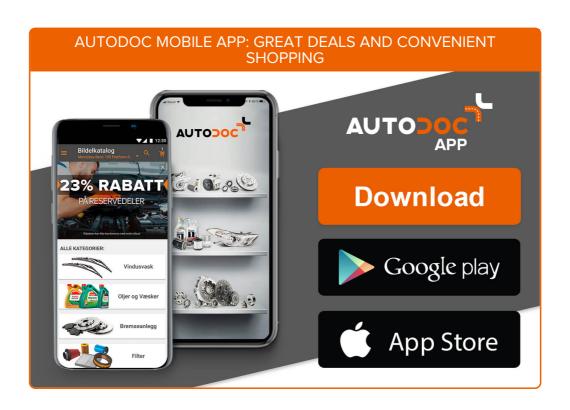


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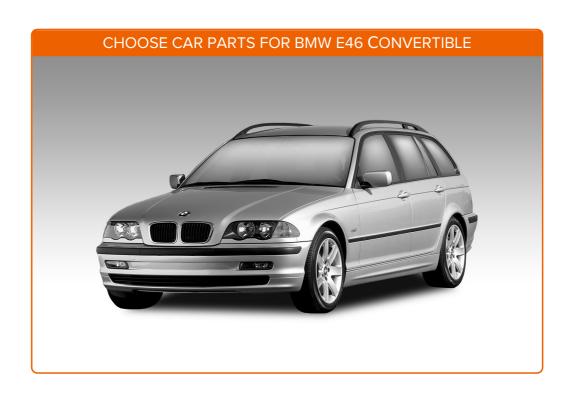


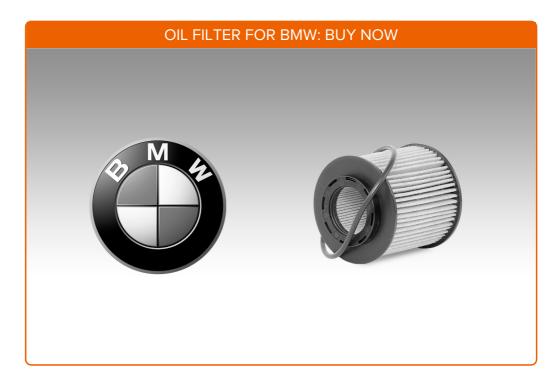




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