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How to change engine oil and filter on MERCEDES-BENZ GL (X164) V6 – replacement guide







SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

i Important!

This replacement procedure can be used for: MERCEDES-BENZ GL (X164) GL 450 4-matic (164.871), MERCEDES-BENZ GL (X164) GL 500 4-matic (164.886)

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 240 (203.061)

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REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES-BENZ GL (X164) V6. TOOLS YOU NEED:



- Wire brush
- All-purpose cleaning spray
- Torque wrench
- Combination spanner #13
- Drive socket # 8
- Drive socket # 13
- Oil filter cup socket 74/15F

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

Buy tools

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Replacement: engine oil and filter – MERCEDES-BENZ GL (X164) V6. Tip from AUTODOC:

- 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 MERCEDES-BENZ GL (X164) V6 should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

- Open the hood.
- Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.
- 3 Unscrew the oil filler plug.



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

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Replacement: engine oil and filter – MERCEDES-BENZ GL (X164) V6. Professionals recommend:

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





6 Remove the oil pan cover.



Put a waste oil container with at least 9 l capacity under the drainage hole.



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



Unscrew the drain plug. Use a combination spanner #13. Use a drive socket #13. Use a ratchet wrench.



Drain the used oil.



Replacement: engine oil and filter – MERCEDES-BENZ GL (X164) V6. Tip from AUTODOC:

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

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Clean the oil filter housing cap.



Unscrew the filter housing cap together with the old filter element. Use the 74/15F socket. Use a ratchet wrench.



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

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Replacement: engine oil and filter – MERCEDES-BENZ GL (X164) V6. AUTODOC recommends:

 Move up the container. The oil starts to drain out of the drainage hole immediately after you have removed the oil filter.

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.



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



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



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



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Please note!

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

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- Lubricate the rubber seal of the new filter with a little amount of fresh oil.
- Remove the microfibre towel from the oil filter housing.
- Install a new oil filter housing cover and tighten it. Use the 74/15F socket. Use a torque wrench. Tighten it to 25 Nm torque.



Clean the area of the oil pan drainage hole.



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



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



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Reinstall the oil pan lower cover.



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



- Lower the car.
- 29 Remove the oil filler cap.



30 Insert the funnel.



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Pour oil into the engine through the filler. Required amount of oil: 8 L.



Replacement: engine oil and filter – MERCEDES-BENZ GL (X164) V6. Tip:

- Use the oil recommended by the manufacturer.
- 32 Install the oil filler cap.



33 Tighten the oil filler cap.



- 34 Switch on the ignition.
- Check the oil level using the on-board computer. Top up oil if necessary.

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Run the engine for a few minutes. After the oil pressure warning light goes out, stop the engine. Switch off the ignition.



Replacement: engine oil and filter – MERCEDES-BENZ GL (X164) V6. AUTODOC experts recommend:

- 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.
- Remove the fender protection cover.
- Close the hood.

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Replacement: engine oil and filter – MERCEDES-BENZ GL (X164) V6. Tip from AUTODOC:

- 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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