



How to change engine
radiator on **Mercedes**
W124 – replacement
guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:

MERCEDES-BENZ E-Class Saloon (W124) E 250 D (124.126, 124.129), MERCEDES-BENZ E-Class Saloon (W124) E 300 D (124.131), MERCEDES-BENZ E-Class T-modell (S124) E 300 TD (124.191)

The steps may slightly vary depending on the car design.

REPLACEMENT: ENGINE RADIATOR – MERCEDES W124. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Threadlocker
- Torque wrench
- Combination spanner #10
- Combination spanner #19
- Drive socket # 7
- Drive socket # 10
- Ratchet wrench
- Flat screwdriver
- Clip removal tool
- Funnel
- Fluid container
- Fender cover

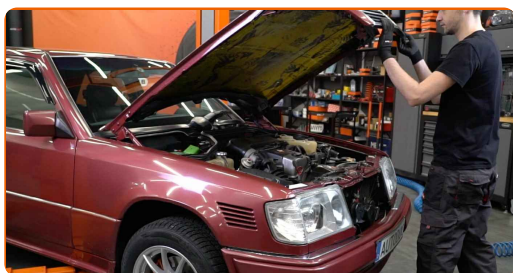
BUY TOOLS

Replacement: engine radiator – Mercedes W124. AUTODOC recommends:

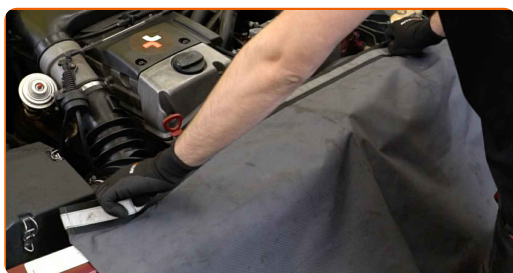
- Follow the terms, recommendations and requirements of the part operation provided by the manufacturer.
- Check the coolant condition and replace it if necessary.
- Warning! Shut down the engine before starting any work – Mercedes W124.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

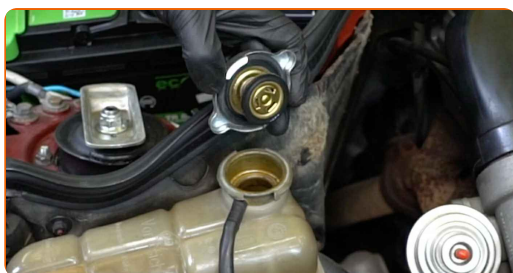
1 Open the hood.



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



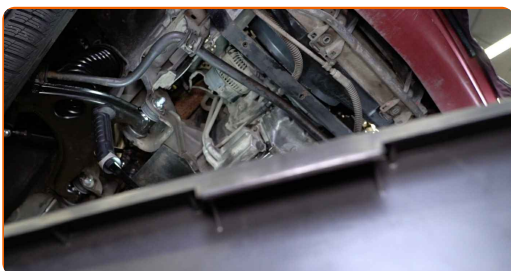
3 Unscrew the coolant reservoir cap.



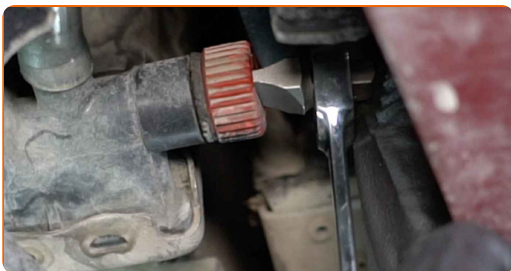
4 Lift the car using a jack or place it over an inspection pit.



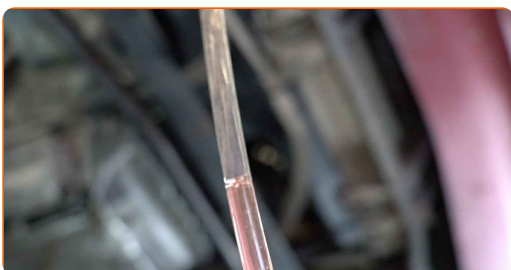
5 Prepare a container for fluids.



6 Open the coolant drain tap. Use a flat screwdriver.



7 Drain the coolant from the engine.

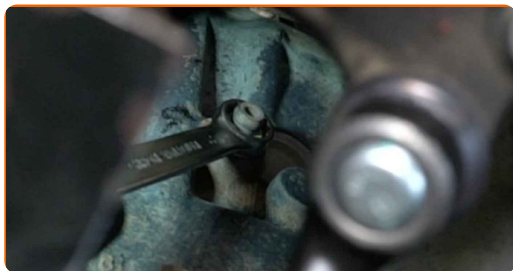


Replacement: engine radiator – Mercedes W124. Tip:

- All work should be done with the engine stopped.
- Wait until the coolant has completely flowed out of the drain hole.

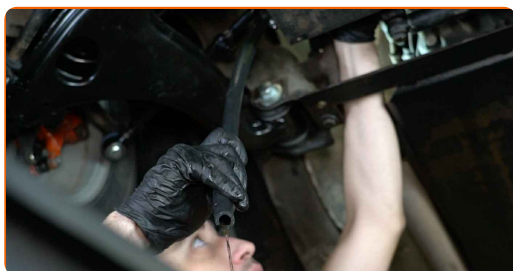
8

Unscrew the coolant drain plug on the engine block. Use a combination spanner #19.



9

Drain the coolant from the engine.



AUTODOC recommends:

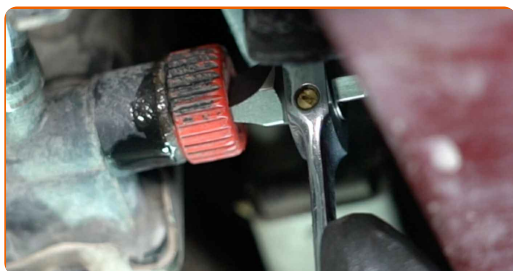
- All work should be done with the engine stopped.
- Wait until the coolant has completely flowed out of the drain hole.

10

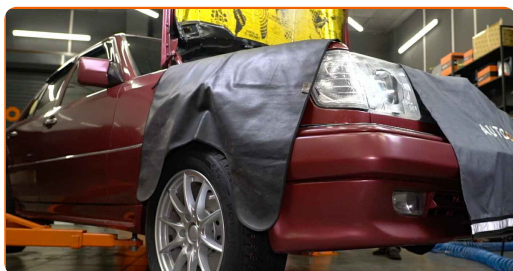
Screw in the coolant drain plug on the engine block. Use a combination spanner #19.



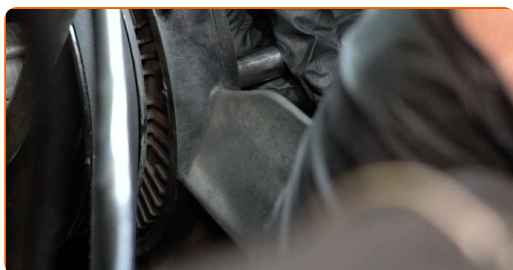
11 Close the coolant drain tap. Use a flat screwdriver.



12 Lower the car.

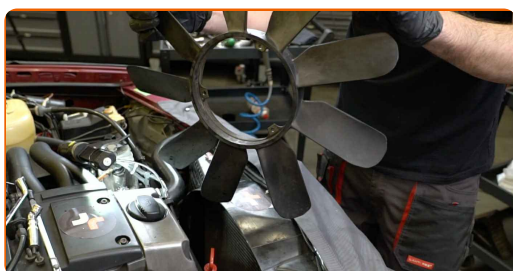


13 Unscrew the fan fasteners. Use a combination spanner #10.

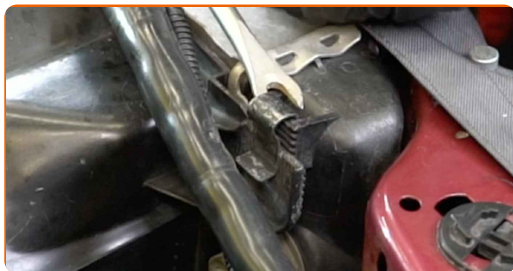


14 Remove the fastening bolts.

15 Remove the cooling fan.



16 Remove the fan shroud clips. Use a clip removal tool.



17 Loosen the clamps of the upper coolant hose. Use a drive socket #7. Use a ratchet wrench.



18 Detach the upper coolant hose.



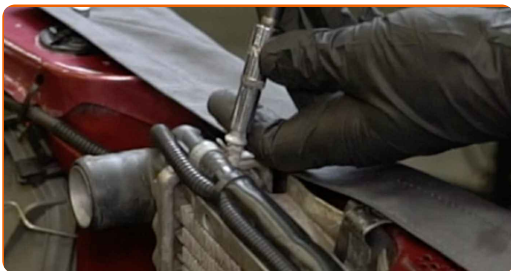
Replacement: engine radiator – Mercedes W124. AUTODOC experts recommend:

- Caution! Coolant may leak from radiator openings.

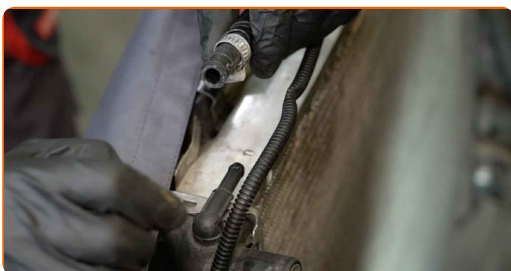
19 Remove the fan shroud.



20 Loosen the clamp of the expansion tank hose. Use a drive socket #7. Use a ratchet wrench.



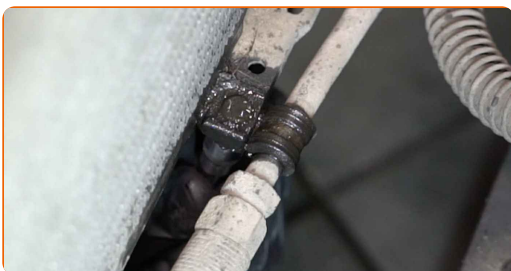
21 Detach the expansion tank hose from the radiator.



22 Clean the fastener of the lower automatic transmission cooler line. Use a wire brush. Use WD-40 spray.



23 Unscrew the fastener of the lower automatic transmission cooler line. Use a drive socket #10. Use a ratchet wrench.



24

Loosen the clamps of the lower coolant hoses. Use a drive socket #7. Use a ratchet wrench.



25

Detach the lower coolant hoses. Use a clip removal tool.



Replacement: engine radiator – Mercedes W124. Tip from AUTODOC:

- Caution! Coolant may leak from radiator openings.

26

Clean the fasteners connecting the automatic transmission cooler lines to the radiator. Use a wire brush. Use WD-40 spray.

27

Unscrew the fasteners connecting the automatic transmission cooler lines to the radiator. Use a combination spanner #19.

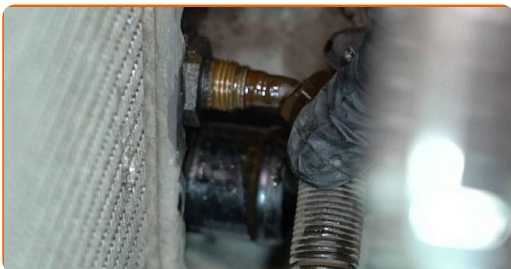


AUTODOC recommends:

- Be careful! Transmission fluid may leak from the lines and radiator housing.

28

Detach the automatic transmission cooler lines from the radiator.



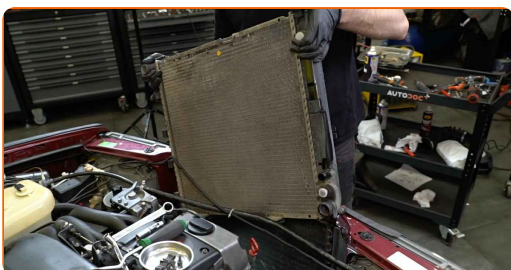
29

Remove the upper engine radiator clips. Use a clip removal tool.



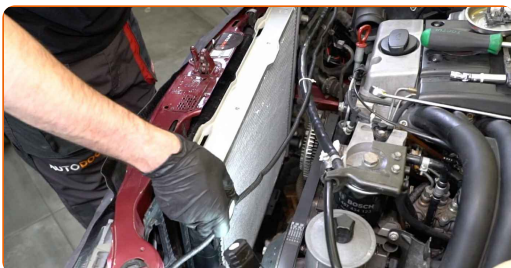
30

Remove the radiator.



31

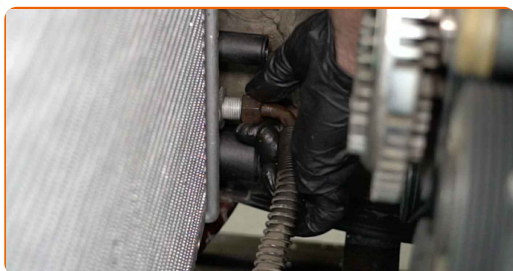
Install the new radiator.



32 Install the upper engine radiator clips.



33 Attach the automatic transmission cooler lines to the radiator.



34 Screw in the fasteners connecting the automatic transmission cooler lines to the radiator. Use a combination spanner #19.



35 Attach the lower coolant hoses.



36

Tighten the clamps of the lower coolant hoses. Use a drive socket #7. Use a ratchet wrench.



37

Screw in the fastener of the lower automatic transmission cooler line. Use a drive socket #10. Use a ratchet wrench.

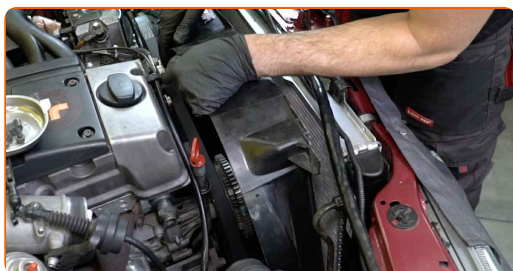


Replacement: engine radiator – Mercedes W124. Professionals recommend:

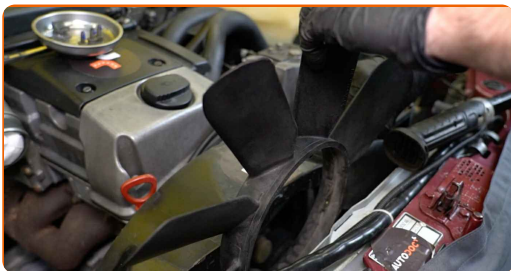
- Prevent coolant or transmission fluid from getting on the V-ribbed belt or its pulleys, and clean off any that does immediately.

38

Install the fan shroud.



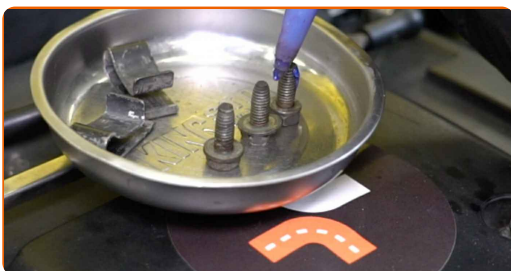
39 Install the cooling fan.



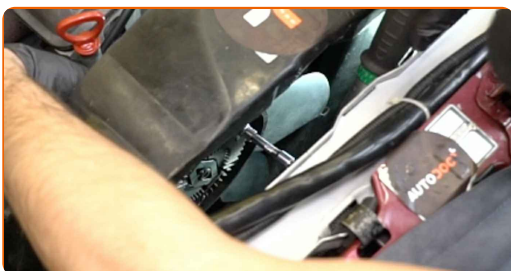
AUTODOC recommends:

- Make sure the fan is installed correctly.

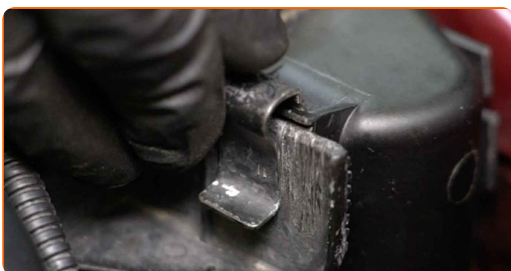
40 Install the fastening bolts. Use threadlocker.



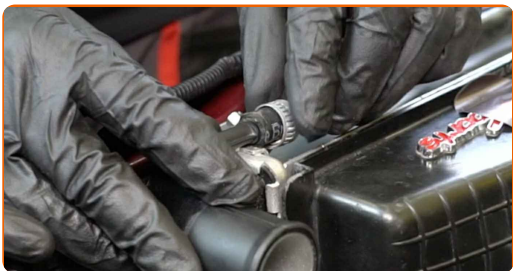
41 Tighten the fan fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 10 Nm torque.



42 Install the fan shroud clips.



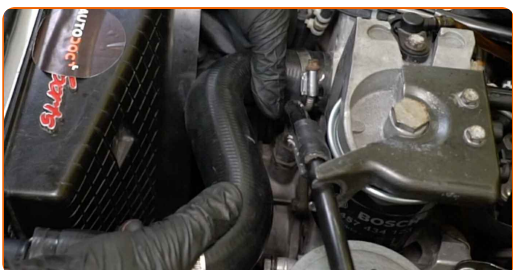
43 Attach the expansion tank hose to the radiator.



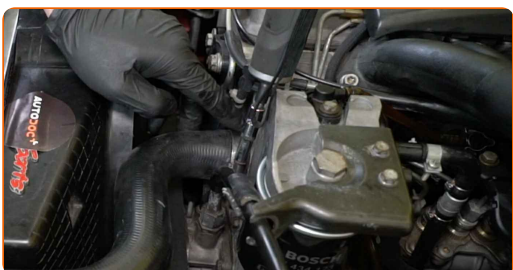
44 Tighten the clamp of the expansion tank hose. Use a drive socket #7. Use a ratchet wrench.



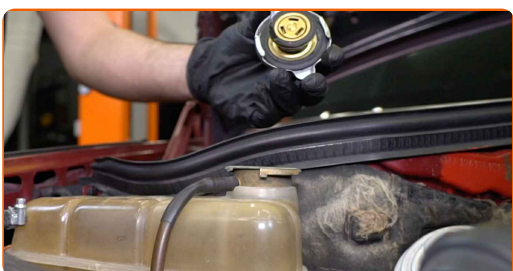
45 Attach the upper coolant hose.



46 Tighten the clamps of the upper coolant hose. Use a drive socket #7. Use a ratchet wrench.



47 Remove the coolant reservoir cap.



48

Insert the funnel.



49

Pour coolant in the coolant reservoir.

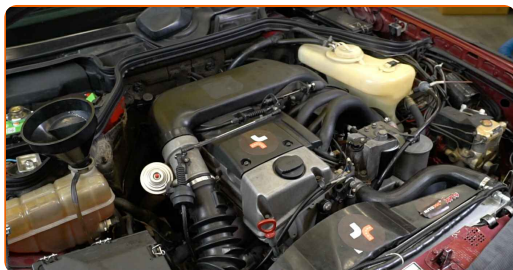


Replacement: engine radiator – Mercedes W124. Tip:

- Only use the coolant recommended by the manufacturer.
- The coolant level should be at the MAX mark.
- Wait until the air goes out of the system.

50

Run the engine for a few minutes.



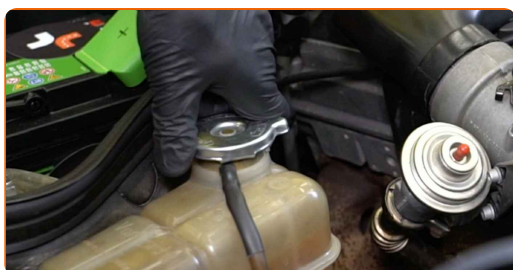
AUTODOC recommends:

- This should be done in order to remove residual air from the cooling system and to check if the components are operating correctly.

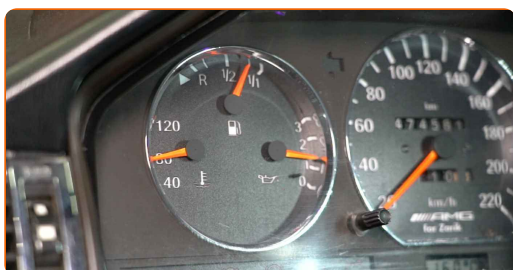
51 Shut off the engine.

52 Install the coolant reservoir cap.

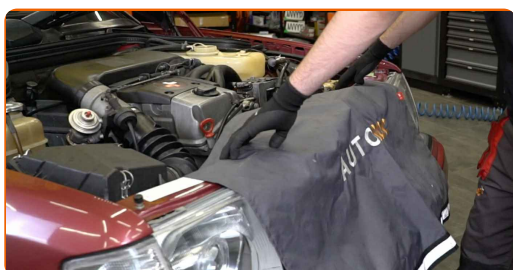
53 Screw on the coolant reservoir cap.



54 Check the level of the automatic transmission fluid and top it up.



55 Remove the fender protection cover.



56

Close the hood.



WELL DONE! 

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