



How to change engine
thermostat 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 (140.032, 140.033)

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 190 (W201) 2.0 (201.023)

REPLACEMENT: ENGINE THERMOSTAT – MERCEDES-
 BENZ S-CLASS SALOON (W140). TOOLS YOU MIGHT
 NEED:



- Wire brush
- All-purpose cleaning spray
- Torque wrench
- Combination spanner #10
- Drive socket # 7
- Drive socket # 8
- Drive socket # 10
- Ratchet wrench
- Long nose pliers
- Funnel
- Fluid container
- Fender cover

Buy tools

Replacement: engine thermostat – MERCEDES-BENZ S-Class Saloon (W140).
AUTODOC recommends:

- Check the condition of the coolant every time you replace the thermostat. Change the coolant if necessary.
- Please note: all work on the car – MERCEDES-BENZ S-Class Saloon (W140) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

Open the bonnet.

2

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

3

Unscrew the coolant reservoir cap.

4

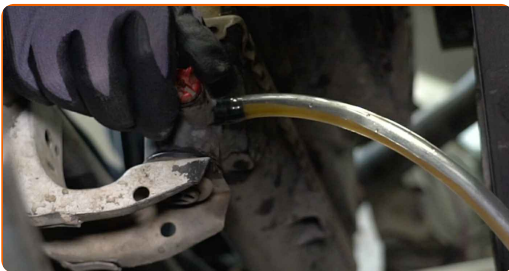
Lift the car using a jack or place it over an inspection pit.

5

Prepare a container for fluids.

6

Open the coolant drain tap.



7 Drain the coolant from the engine.



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

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

8 Close the coolant drain tap.

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



10 Detach the expansion tank hose from the thermostat housing.



11 Detach the coolant hose.



12 Unscrew the thermostat housing fasteners. Use a drive socket #10. Use a ratchet wrench.



13 Remove the fastening bolts.



14 Remove the thermostat together with the housing.



Replacement: engine thermostat – MERCEDES-BENZ S-Class Saloon (W140).
Professionals recommend:

- Caution! Coolant may leak out of the coolant lines and thermostat housing.

15 Clean the thermostat housing mounting seat. Use all-purpose cleaning spray.

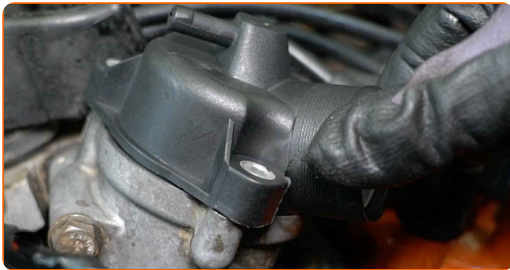


16 Clean the thermostat mounting seat. Use a wire brush. Use all-purpose cleaning spray.

17 Install a new thermostat.



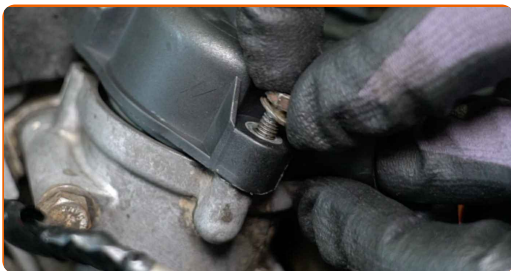
18 Install the thermostat housing.



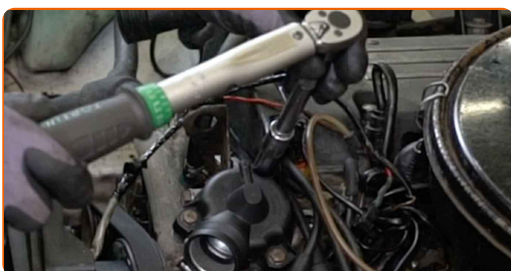
Replacement: engine thermostat – MERCEDES-BENZ S-Class Saloon (W140).
Tip from AUTODOC experts:

- Be sure to use a new O-ring when installing the sensor.

19 Install the fastening bolts.



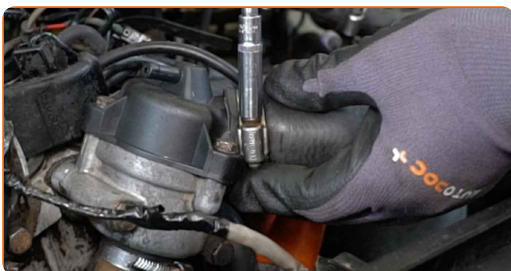
20 Tighten the thermostat housing fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 12 Nm torque.



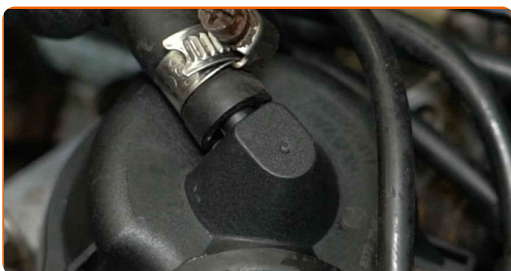
21 Attach the coolant hose.



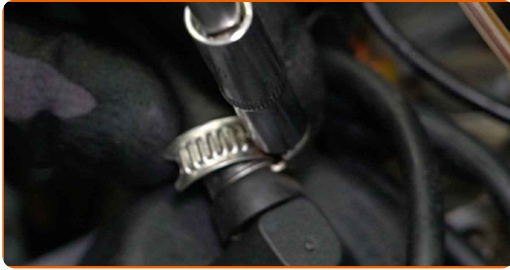
22 Secure the coolant hose clamp. Use a drive socket #8. Use a ratchet wrench.



23 Connect the expansion tank hose to the thermostat housing.



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



25 Remove the coolant reservoir cap.

26 Insert the funnel.



27 Pour coolant in the coolant reservoir.



Replacement: engine thermostat – MERCEDES-BENZ S-Class Saloon (W140).

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.

28 Install the coolant reservoir cap.



29 Screw on the coolant reservoir cap.



30 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.

31 Shut off the engine.

32 Remove the fender protection cover.

33 Close the hood.

WELL DONE! 

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ENGINE THERMOSTAT: A WIDE SELECTION

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