



How to change  
temperature sensor and  
engine thermostat on  
**MERCEDES-BENZ VARIO**  
**Dumptruck** –  
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 VARIO Dumptruck 612 D 2.9 (668.331, 668.332), MERCEDES-BENZ VARIO Dumptruck 812 D 2.9 (670.331, 670.332)

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 E-Class Saloon (W124) E 250 D (124.126, 124.129)

**REPLACEMENT: TEMPERATURE SENSOR AND ENGINE THERMOSTAT – MERCEDES-BENZ VARIO DUMPTRUCK.  
TOOLS YOU'LL NEED:**



- Wire brush
- All-purpose cleaning spray
- Dielectric grease
- Torque wrench
- Combination spanner #10
- Combination spanner #19
- Drive socket # 7
- Drive socket # 10
- Drive socket # 22
- Ratchet wrench
- Flat screwdriver
- Funnel
- Fluid container
- Fender cover

**Buy tools**

Replacement: temperature sensor and engine thermostat – MERCEDES-BENZ VARIO Dumptruck. AUTODOC experts recommend:

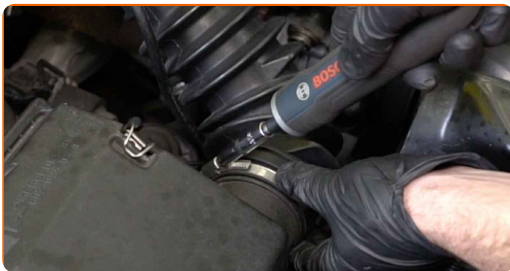
- Check the condition of the coolant every time you replace the thermostat. Change the coolant if necessary.
- All work should be done with the engine stopped.
- All work should be done with the engine stopped.

**REPLACEMENT: TEMPERATURE SENSOR AND ENGINE THERMOSTAT – MERCEDES-BENZ VARIO DUMPTRUCK. TAKE THE FOLLOWING STEPS:**

**1** Open the bonnet.

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

**3** Loosen the air filter hose clamps. Use a drive socket #7. Use a ratchet wrench.



**4** Remove the air intake hose.



**5** Cover the throttle body with a microfibre towel to prevent dust and dirt from getting into the system.



**6** Unscrew the coolant reservoir cap.



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

**8** Prepare a container for fluids.



**9** Open the coolant drain tap. Use a flat screwdriver.



**10**

Drain the coolant from the engine.



**Replacement: temperature sensor and engine thermostat – MERCEDES-BENZ VARIO Dumptruck. Tip:**

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

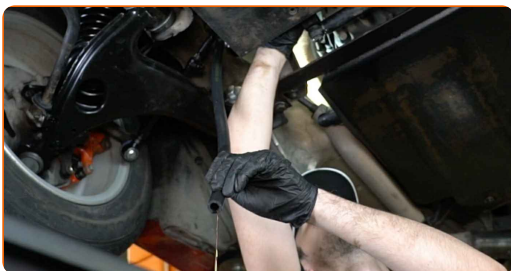
**11**

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



**12**

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.

**13**

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



**14**

Close the coolant drain tap. Use a flat screwdriver.



**15**

Clean the thermostat housing fasteners. Use a wire brush. Use all-purpose cleaning spray.



- 16 Unscrew the thermostat housing fasteners. Use a combination spanner #10. Use a drive socket #10. Use a ratchet wrench.



- 17 Remove the fastening bolts.



- 18 Loosen the coolant hose clamp. Use a drive socket #7. Use a ratchet wrench.



- 19 Detach the coolant hose.



Replacement: temperature sensor and engine thermostat – MERCEDES-BENZ VARIO Dumptruck. AUTODOC recommends:

- Be careful! The coolant may leak.



**20** Remove the thermostat together with the housing.



**21** Clean the thermostat housing mounting seat. Use a wire brush. Use all-purpose cleaning spray.



**22** Remove the thermostat.



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

**24** Install a new thermostat.



**25** Install the thermostat together with the housing.



**26** Install the fastening bolts.



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



**28** Attach the coolant hose.



**29** Secure the coolant hose clamp. Use a drive socket #7. Use a ratchet wrench.



**30** Unplug the connector of the coolant temperature sensor. Use a flat screwdriver.



**31** Clean the coolant temperature sensor. Use a wire brush. Use all-purpose cleaning spray.



**32** Unscrew the coolant temperature sensor. Use a drive socket #22. Use a ratchet wrench.



**33** Install a new coolant temperature sensor.



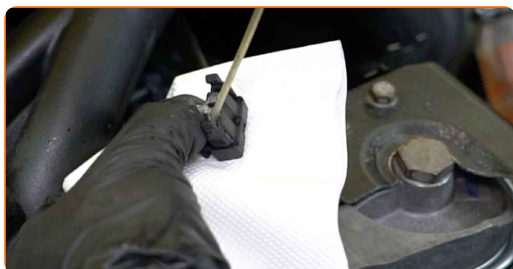
Replacement: temperature sensor and engine thermostat – MERCEDES-BENZ VARIO Dumptruck. Tip from AUTODOC experts:

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

**34** Screw in and tighten the coolant temperature sensor. Use a drive socket #22. Use a torque wrench. Tighten it to 25 Nm torque.



**35** Treat the coolant temperature sensor connector. Use dielectric grease.



**36** Plug in the connector of the coolant temperature sensor.



**37** Remove the microfibre towel from the throttle body.



**38** Install the air intake hose and secure it.



**39** Tighten the air filter hose clamps. Use a drive socket #7. Use a ratchet wrench.



**40** Remove the coolant reservoir cap.



**41** Insert the funnel.



**42**

Pour coolant in the coolant reservoir.



**AUTODOC recommends:**

- 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.

**43**

Run the engine for a few minutes.

**Replacement: temperature sensor and engine thermostat – MERCEDES-BENZ VARIO Dumptruck. Professionals recommend:**

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

**44**

Shut off the engine.

**45**

Install the coolant reservoir cap.



46

Screw on the coolant reservoir cap.



47

Remove the fender protection cover.

48

Close the hood.

**WELL DONE!** 

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