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How to change engine thermostat on **BMW Z3 Roadster (E36)** – 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: BMW Z3 Roadster (E36) 2.8 i

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: BMW 3 Saloon (E36) 323i 2.5

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## REPLACEMENT: ENGINE THERMOSTAT – BMW Z3 ROADSTER (E36). AUTODOC RECOMMENDS:



- All-purpose cleaning spray
- Sealant
- Torque wrench
- Drive socket # 7
- Drive socket # 10
- Drive socket # 13
- Ratchet wrench

- Clip removal tool
- Seal scraper
- Flat screwdriver
- Funnel
- Fluid container
- Fender cover

**Buy tools** 

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### Replacement: engine thermostat – BMW Z3 Roadster (E36). Tip from AUTODOC:

- Check the condition of the coolant every time you replace the thermostat. Change the coolant if necessary.
- Please note: all work on the car BMW Z3 Roadster (E36) 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.
- Remove the fasteners of the air duct housing. Use a clip removal tool.
- Remove the air distribution housing assembly.



Unscrew the coolant reservoir cap.



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6 Prepare a container for fluids.



Open the coolant drain tap.



Drain the coolant from the engine.



Replacement: engine thermostat – BMW Z3 Roadster (E36). AUTODOC experts recommend:

- Caution! The coolant can be very hot.
- Wear gloves to prevent contact with hot liquid.
- All work should be done with the engine stopped.
- Wait until the coolant has completely flowed out of the drain hole.

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9 Close the coolant drain tap.



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



Detach the coolant hose.



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



Detach the coolant hose.



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Detach the coolant pipe bracket. Use a drive socket #13. Use a ratchet wrench.



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



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



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



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18 Remove the thermostat housing.



#### AUTODOC recommends:

- Replacement: engine thermostat BMW Z3 Roadster (E36). To avoid damaging the part when removing it, do not use excessive force.
- Caution! Coolant may leak out of the coolant lines and thermostat housing.

19 Remove the thermostat.

20



Clean the thermostat housing mounting seat. Use a flat screwdriver. Use a seal scraper. Use all-purpose cleaning spray.



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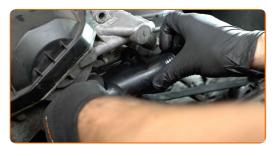
21 Install a new thermostat.



Treat the thermostat housing mounting seat. Use a sealant.



23 Install the new thermostat housing.



#### **AUTODOC** recommends:

 Replacement: engine thermostat – BMW Z3 Roadster (E36). Do not use excessive force during installation. This may damage the part.

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Tighten the thermostat housing fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 7 nm torque.



Attach the coolant pipe bracket. Use a drive socket #13. Use a torque wrench. Tighten it to 11 nm torque.



- Tighten the thermostat housing fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 7 nm torque.
- Clean the thermostat housing fasteners. Use all-purpose cleaning spray.



Connect the coolant hoses to the thermostat housing.



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



Remove the coolant reservoir cap.



31 Insert the funnel.

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Pour coolant in the coolant reservoir.



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#### **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.

Open the coolant system bleed screw. Use a flat screwdriver.



### Replacement: engine thermostat – BMW Z3 Roadster (E36). AUTODOC experts recommend:

- This should be done in order to remove residual air from the cooling system and to check if the components are operating correctly.
- Run the engine for a few minutes. This should be done in order to remove residual air from the cooling system and to check if the components are operating correctly.
- Close the coolant system bleed screw. Use a flat screwdriver.
- 36 Shut off the engine.
- Check the coolant level. If necessary, top up to the required level.



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38 Install the coolant reservoir cap.



Screw on the coolant reservoir cap.



Reinstall the air distribution housing assembly.



- Install the air duct housing fasteners.
- Remove the fender protection cover.
- Close the hood.



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