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How to change engine thermostat on **AUDI A4 Saloon (8E2, B6)** – 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: AUDI A4 Saloon (8E2, B6) 1.6

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: AUDI A4 Saloon (8D2, B5) 1.6

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# REPLACEMENT: ENGINE THERMOSTAT – AUDI A4 SALOON (8E2, B6). TOOLS YOU MIGHT NEED:



- Wire brush
- All-purpose cleaning spray
- Electronic spray
- Sealant
- Torque wrench
- Combination spanner #10
- Combination spanner #13
- Combination spanner #17
- Combination spanner #46

- Drive socket # 10
- Drive socket # 13
- HEX bit No.H5
- HEX bit No.H8
- Ratchet wrench
- Funnel
- Fluid container
- Pincers
- Fender cover

**Buy tools** 

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# Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). 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.

### 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.
- Unscrew the engine cover fastener. Use HEX No.H5. Use a ratchet wrench.



Remove the engine cover.



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 Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). Do not use excessive force when removing the part as this may damage it.





6 Prepare a container for fluids.



Clean the coolant hose. Use all-purpose cleaning spray.



Disconnect the coolant pipe retaining clip.

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Detach the coolant hose.



Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). Professionals recommend:

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

10

9

Drain the coolant from the engine.



## Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). Tip:

- 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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Clean the coolant hose. Use all-purpose cleaning spray.



12 Attach the coolant hose.



- Connect the coolant pipe retaining clip.
- Clean the coolant hose. Use all-purpose cleaning spray.



Pull aside the V-ribbed belt tensioner pulley. Use a combination spanner #17.



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16 Remove the V-ribbed belt.



Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). Tip from AUTODOC:

- Check the condition of the tensioner pulley and idler pulley. Replace them if necessary.
- Return the tensioner pulley to its initial position.



18 Remove the battery cover.

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Unscrew the fasteners of the car battery terminals. Use a combination spanner #10.



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Remove the battery terminals.



Loosen the alternator fasteners. Use HEX No.H8.



Unscrew the fastener of the viscous fan clutch. Use a combination spanner #46. Use HEX No.H8.



Loosen the alternator fasteners. Use HEX No.H8.



Remove the alternator.



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Disconnect the alternator connector.



Unscrew the alternator power cable fastener. Use a combination spanner #13.



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



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



Remove the thermostat housing.

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 Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). Do not use excessive force when removing the part as this may damage it.

30

Remove the thermostat. Use pincers.



#### Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). Tip:

- Do not apply excessive force when removing the part. Otherwise you may damage it.
- Caution! Coolant may leak out of the coolant lines and thermostat housing.

31

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



32

Install a new thermostat.

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 Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). Do not use excessive force during installation. This may damage the part.

33

Treat the thermostat housing. Use a sealant.



34

Install the thermostat housing.



Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). Tip from AUTODOC:

• When installing, do not use excessive force to avoid damage to the part.

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Tighten the thermostat housing fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 6 nm torque.



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Tighten the alternator power cable fastener. Use a drive socket #13. Use a torque wrench. Tighten it to 5 nm torque.



Connect the alternator connector.



38 Install the alternator.

39



Tighten the alternator fasteners. Use HEX No.H8. Use a torque wrench. Tighten it to 8 nm torque.



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Tighten the fastener of the viscous fan clutch. Use a combination spanner #46. Use HEX No.H8. Use a torque wrench. Tighten it to 24 nm torque.



Pull aside the V-ribbed belt tensioner pulley. Use a combination spanner #17.



Install the V-ribbed belt.

Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). AUTODOC experts recommend:

- Check the condition of the tensioner pulley and idler pulley. Replace them if necessary.
- Return the tensioner pulley to its initial position.



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Remove the coolant reservoir cap.



Insert the funnel.



Pour coolant in the coolant reservoir.



Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). 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.

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47 Attach the terminals to the battery.



Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). Tip from AUTODOC:

- Be careful! Do not mix up the positive and the negative terminals of the car battery.
- Screw in the fasteners of the battery terminals. Use a combination spanner #10.



Treat the battery terminals. Use dielectric grease.



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50 Install the battery cover.



- 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.
- 52 Shut off the engine.
- 53 Install the coolant reservoir cap.



Screw on the coolant reservoir cap.



Install the engine cover and secure it.



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 Replacement: engine thermostat – AUDI A4 Saloon (8E2, B6). Do not use excessive force during installation. This may damage the part.

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Screw in the engine cover fasteners. Use HEX No.H5. Use a ratchet wrench.



- Check the coolant level. If necessary, top up to the required level.
- Remove the fender protection cover.
- Close the hood.



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