





# 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 X5 (E53) 3.0 d

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 5 Touring (E39) 530d 3.0

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# REPLACEMENT: ENGINE THERMOSTAT – BMW X5 (E53). LIST OF THE TOOLS YOU'LL NEED:



- All-purpose cleaning spray
- Sealant
- Torque wrench
- Combination spanner #16
- Combination spanner #24
- Combination spanner #32
- Drive socket #7
- Drive socket # 10
- HEX bit No.H5

- Ratchet wrench
- Clip removal tool
- Seal scraper
- Flat screwdriver
- Funnel
- Fluid container
- Crow bar
- Microfibre towel
- Fender cover

**Buy tools** 

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#### Replacement: engine thermostat – BMW X5 (E53). 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 X5 (E53) 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.
- Unscrew the coolant reservoir cap.



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



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Unscrew the cooling fan fastener. Use a combination spanner #32 (2 pieces).



Remove the fan shroud. Remove the cooling fan.



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



Remove the engine cover.



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#### **AUTODOC** recommends:

• Replacement: engine thermostat – BMW X5 (E53). Do not use excessive force when removing the part as this may damage it.

9 Prepare a container for fluids.

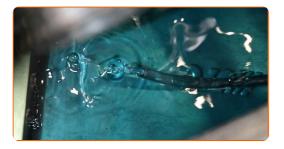


Open the coolant drain tap.



Drain the coolant from the engine.

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# Replacement: engine thermostat – BMW X5 (E53). Tip from AUTODOC experts:

- 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.
- Close the coolant drain tap.
- Unscrew the intercooler pipe clamp. Use a drive socket #7. Use a ratchet wrench.



14 Remove the intercooler hose.

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Unscrew the fastener of the coolant hose clamp. Use a drive socket #10. Use a ratchet wrench.



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Pull aside the V belt tensioner pulley. Use a combination spanner #16.



17 Remove the V belt.

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#### Replacement: engine thermostat – BMW X5 (E53). Professionals 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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Pull aside the V-ribbed belt tensioner pulley. Use a combination spanner #16.



Remove the V-ribbed belt.



### Replacement: engine thermostat – BMW X5 (E53). AUTODOC recommends:

 Check the condition of the tensioner pulley and idler pulley. Replace them if necessary.

Return the tensioner pulley to its initial position.



Loosen the coolant hose clamp.



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Detach the coolant hose. Use a crowbar.



Loosen the coolant hose clamp.



Detach the coolant hose. Use a crowbar.



## Replacement: engine thermostat – BMW X5 (E53). Tip from AUTODOC:

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

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



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



Remove the thermostat housing. Use a crowbar.



#### **AUTODOC** recommends:

- Replacement: engine thermostat BMW X5 (E53). Do not use excessive force when removing the part as this may damage it.
- Caution! Coolant may leak out of the coolant lines and thermostat housing.

Cover the thermostat housing with a microfibre cloth to prevent dirt and foreign objects entering the system.



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