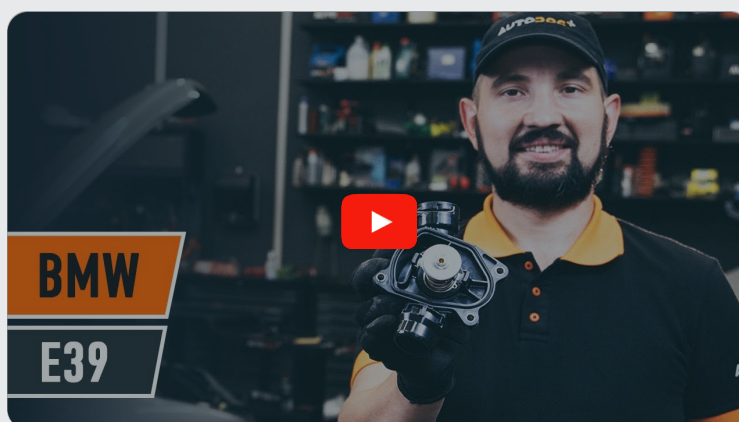


VIDEO TUTORIAL



i Important!

This replacement procedure can be used for:

BMW 7 (E38) 730d 2.9, BMW 5 Saloon (E39) 530d 3.0, BMW 5 Touring (E39) 530d 3.0, BMW X5 (E53) 3.0 d, BMW 3 Touring (E46) 330d 2.9, BMW 5 Saloon (E39) 525d 2.5, BMW 5 Touring (E39) 525d 2.5, BMW 3 Touring (E46) 330xd 2.9, BMW 3 Saloon (E46) 330xd 2.9, BMW 3 Coupe (E46) 330Cd 3.0, BMW 3 Touring (E46) 330d 3.0, BMW 3 Touring (E46) 330xd 3.0

The steps may slightly vary depending on the car design.

REPLACEMENT: ENGINE THERMOSTAT – BMW E39 TOURING. 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

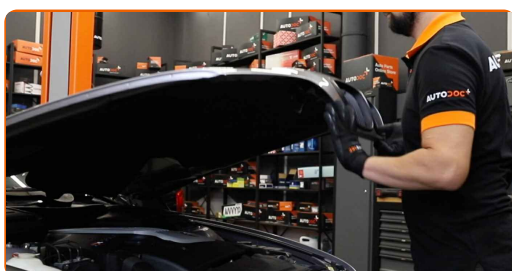
BUY TOOLS

Replacement: engine thermostat – BMW E39 touring. 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 E39 touring – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the hood.



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



3 Unscrew the coolant reservoir cap.



4

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



5

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



6

Remove the fan shroud. Remove the cooling fan.



7

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



8

Remove the engine cover.



AUTODOC recommends:

- Replacement: engine thermostat – BMW E39 touring. Do not use excessive force when removing the part as this may damage it.

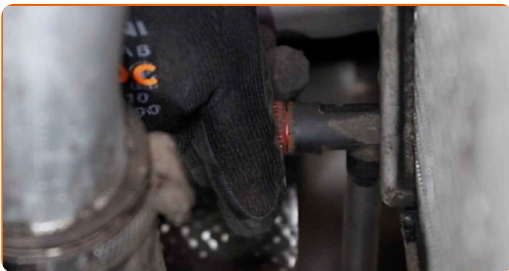
9

Prepare a container for fluids.



10

Open the coolant drain tap.



11

Drain the coolant from the engine.

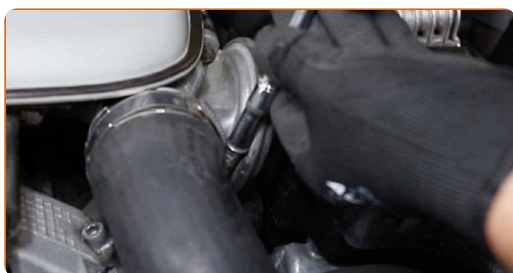


Replacement: engine thermostat – BMW E39 touring. Tip from AUTODOC experts:

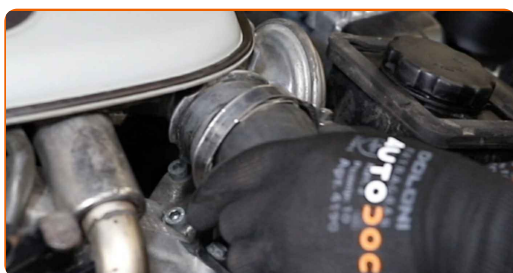
- Caution! The coolant can be very hot.
- Wear gloves to prevent contact with hot liquid.
- All work should be done with the engine stopped.
- Wait until the coolant has completely flowed out of the drain hole.

12 Close the coolant drain tap.

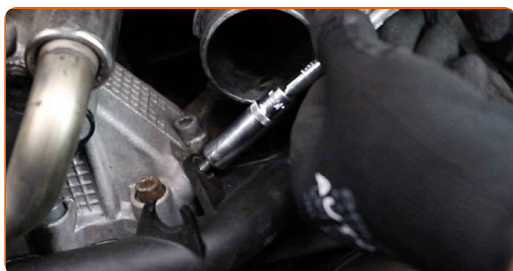
13 Unscrew the intercooler pipe clamp. Use a drive socket #7. Use a ratchet wrench.



14 Remove the intercooler hose.

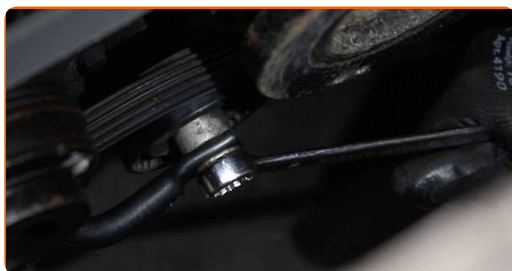


15 Unscrew the fastener of the coolant hose clamp. Use a drive socket #10. Use a ratchet wrench.



16

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



17

Remove the V belt.

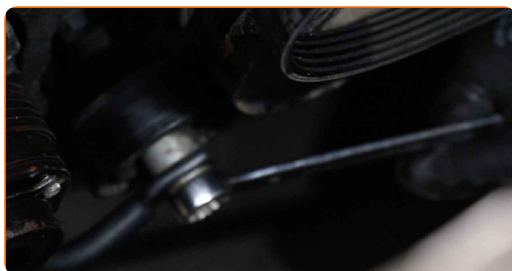


Replacement: engine thermostat – BMW E39 touring. Professionals recommend:

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

18

Return the tensioner pulley to its initial position.



19

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



20

Remove the V-ribbed belt.

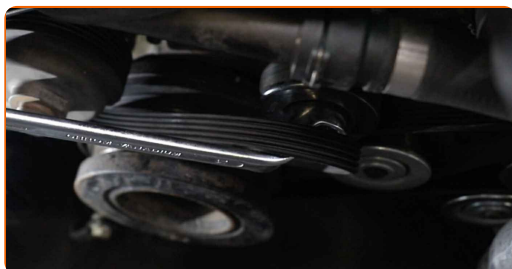


Replacement: engine thermostat – BMW E39 touring. AUTODOC recommends:

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

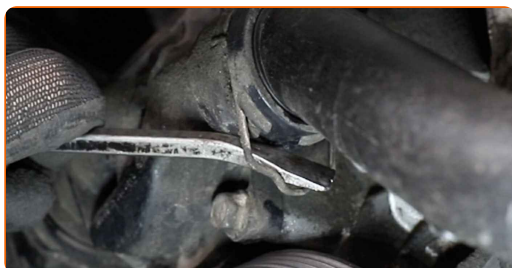
21

Return the tensioner pulley to its initial position.



22

Loosen the coolant hose clamp.



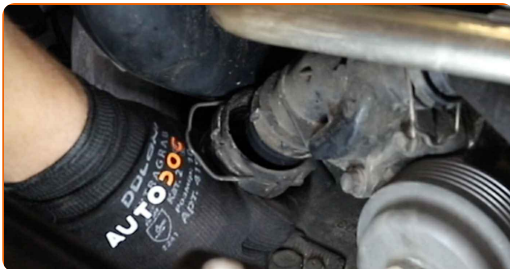
- 23 Detach the coolant hose. Use a crowbar.



- 24 Loosen the coolant hose clamp.



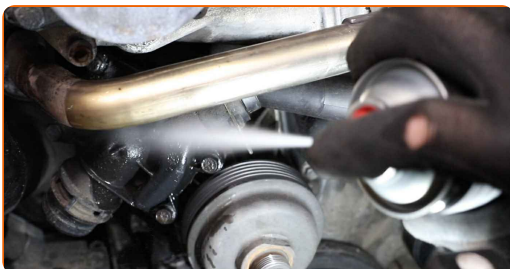
- 25 Detach the coolant hose. Use a crowbar.



Replacement: engine thermostat – BMW E39 touring. Tip from AUTODOC:

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

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



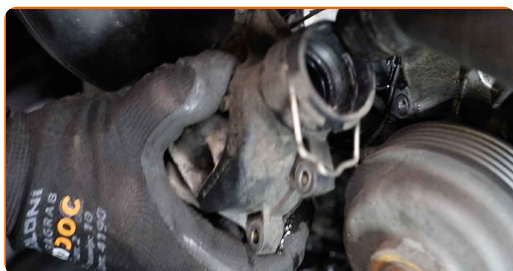
27

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



28

Remove the thermostat housing. Use a crowbar.



AUTODOC recommends:

- Replacement: engine thermostat – BMW E39 touring. 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.

29

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

