



How to change engine
thermostat on **VW Golf 4**
– replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:

VW Golf IV Hatchback (1J1) 1.6, VW Bora Saloon (1J2) 1.6, VW Golf IV Variant (1J5) 1.6, VW Bora Variant (1J6) 1.6

The steps may slightly vary depending on the car design.

**REPLACEMENT: ENGINE THERMOSTAT – VW GOLF 4.
LIST OF THE TOOLS YOU'LL NEED:**



- All-purpose cleaning spray
- Sealant
- Torque wrench
- Combination spanner #10
- Drive socket # 7
- Drive socket # 13
- Torx bit T25
- HEX bit No.H5
- HEX bit No.H6
- Ratchet wrench
- Clic-R collar pliers
- Seal scraper
- Funnel
- Fluid container
- Crow bar
- Microfibre towel
- Fender cover

BUY TOOLS

Replacement: engine thermostat – VW Golf 4. AUTODOC recommends:

- Check the condition of the coolant every time you replace the thermostat. Change the coolant if necessary.
- Please note: all work on the car – VW Golf 4 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

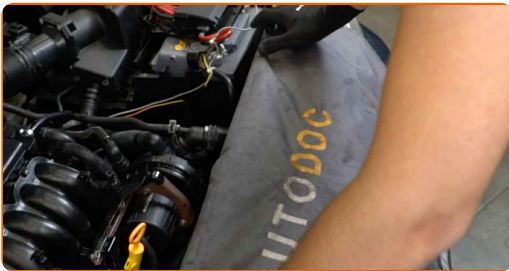
1

Open the hood.



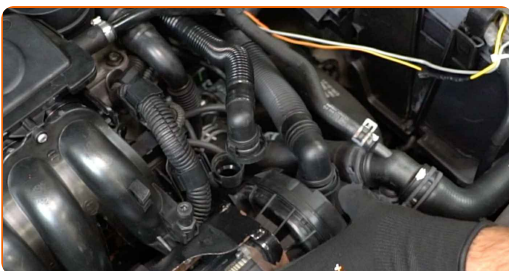
2

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

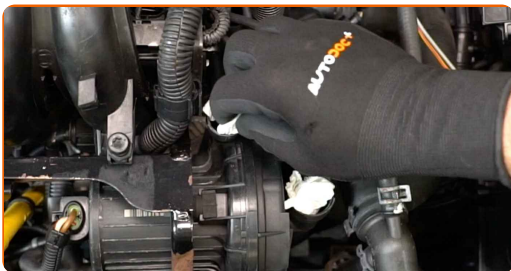


3

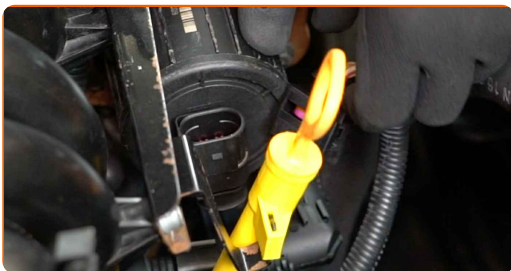
Disconnect the secondary air pump hoses.



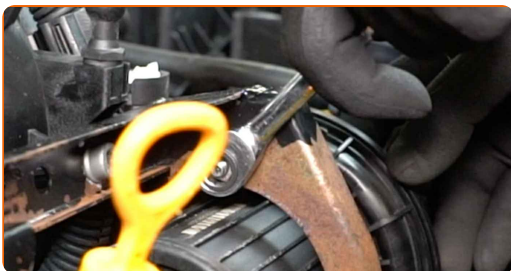
4 Cover the secondary air pump channels with a microfibre cloth to prevent dust and dirt from getting inside.



5 Detach the secondary air pump connector.



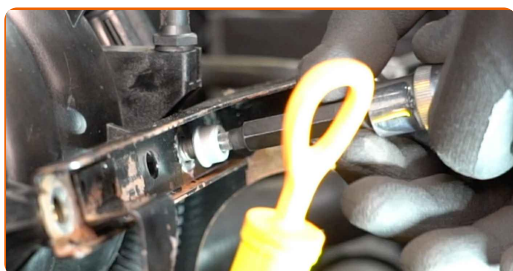
6 Unscrew the fasteners connecting the secondary air pump to its bracket. Use a combination spanner #10.



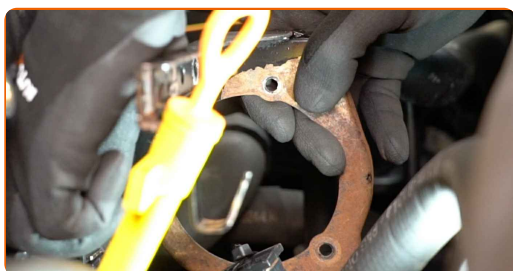
7 Remove the secondary air pump.



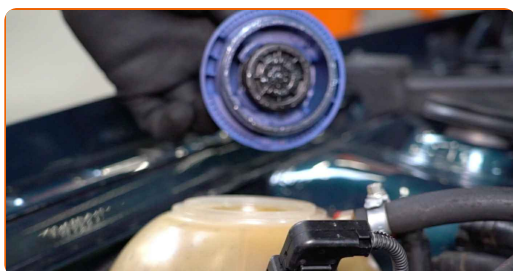
8 Unscrew the fastener of the secondary air pump bracket. Use HEX No.H6. Use a drive socket #13. Use a ratchet wrench.



9 Remove the secondary air pump bracket.



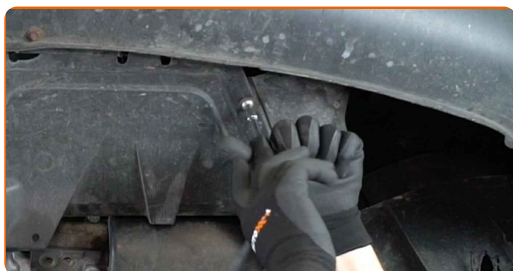
10 Unscrew the coolant reservoir cap.



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



12 Undo the fasteners of the oil pan lower cover. Use Torx T25. Use a ratchet wrench.



13 Remove the oil pan cover.



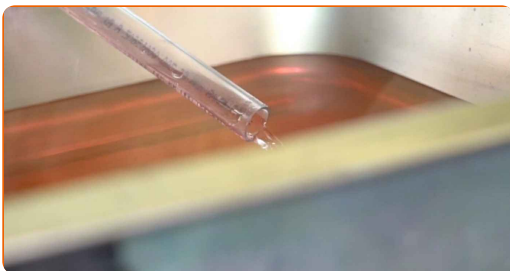
14 Prepare a container for fluids.



15 Open the coolant drain tap.



16 Drain the coolant from the engine.

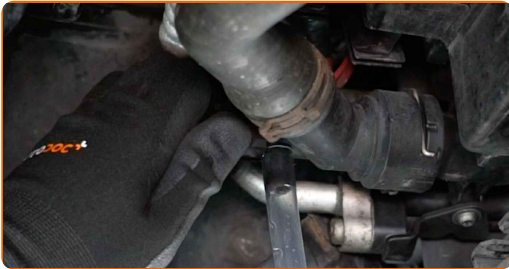


Replacement: engine thermostat – VW Golf 4. Tip from AUTODOC:

- 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.

17

Close the coolant drain tap.



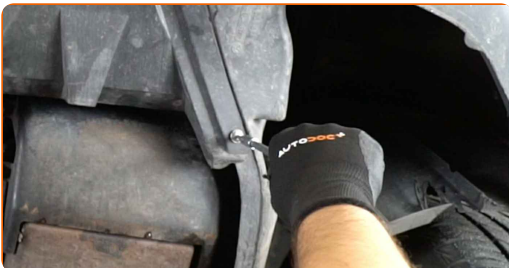
18

Reinstall the oil pan lower cover.



19

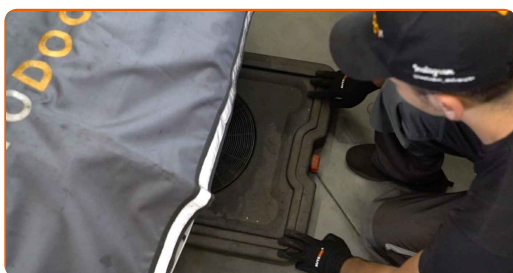
Tighten the fasteners of the oil pan lower cover. Use Torx T25. Use a ratchet wrench.



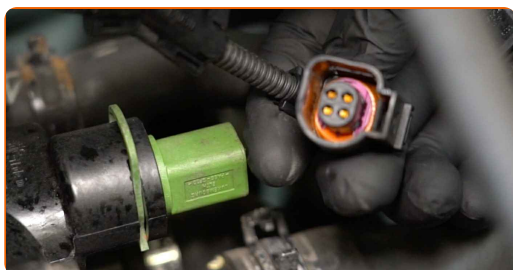
20 Lower the car.



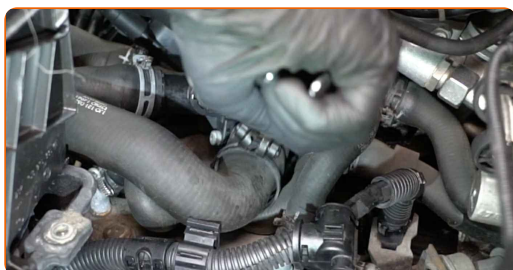
21 Prepare a container for fluids.



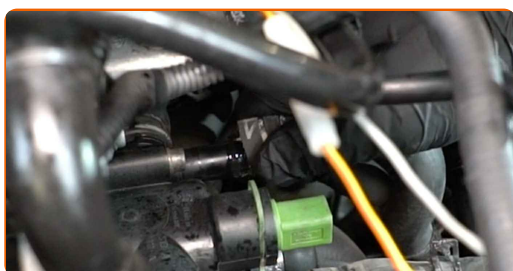
22 Unplug the connector of the coolant temperature sensor.



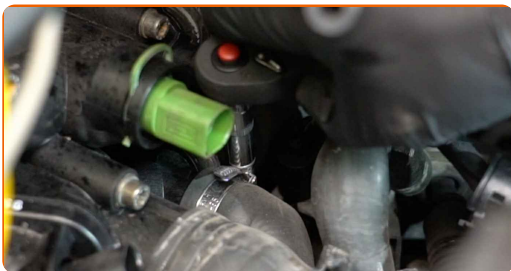
23 Detach the clamps of the coolant hoses. Use clic-R collar pliers.



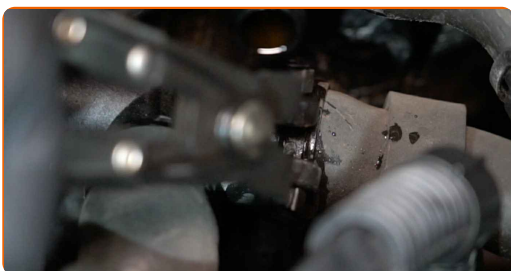
24 Disconnect the coolant hoses from the thermostat housing.



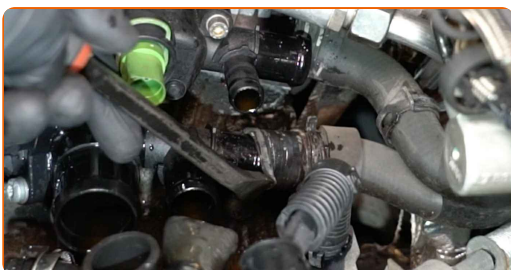
25 Loosen the coolant hose clamp. Use a drive socket #7. Use a ratchet wrench.



26 Detach the clamps of the coolant hoses. Use clic-R collar pliers.



27 Disconnect the coolant hoses from the thermostat housing. Use a crowbar.

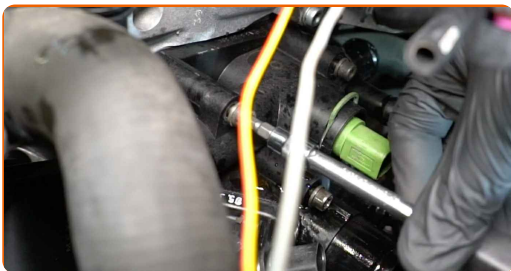


Replacement: engine thermostat – VW Golf 4. AUTODOC experts recommend:

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

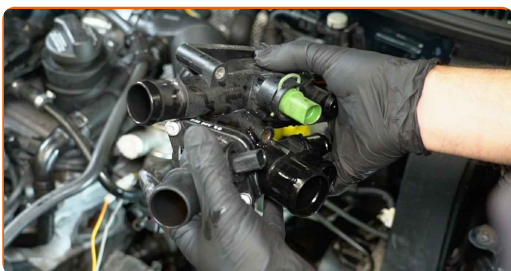
28

Unscrew the thermostat housing fasteners. Use HEX No.H5. Use a ratchet wrench.



29

Remove the thermostat housing.

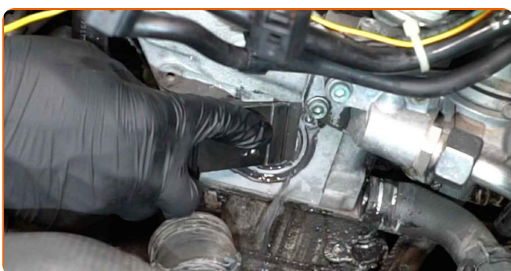


AUTODOC recommends:

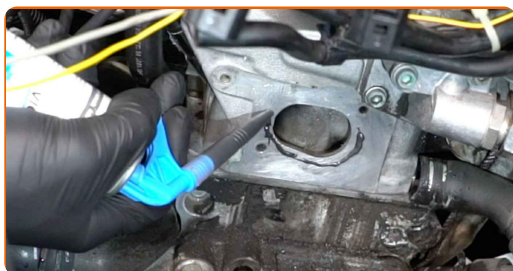
- Replacement: engine thermostat – VW Golf 4. Do not use excessive force when removing the part as this may damage it.
- Caution! Coolant may leak out of the coolant lines and thermostat housing.

30

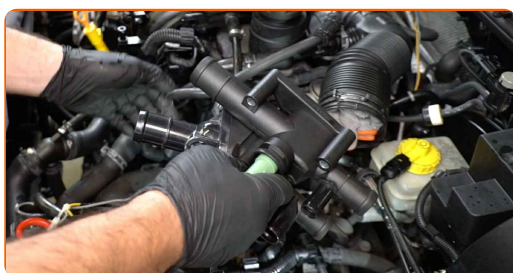
Clean the thermostat housing mounting seat. Use a seal scraper. Use all-purpose cleaning spray.



31 Treat the thermostat housing mounting seat. Use a sealant.



32 Install the new thermostat housing.



AUTODOC recommends:

- Replacement: engine thermostat – VW Golf 4. Do not use excessive force during installation. This may damage the part.

33 Tighten the thermostat housing fasteners. Use HEX No.H5. Use a torque wrench. Tighten it to 8 nm torque.



34 Attach the coolant hose.



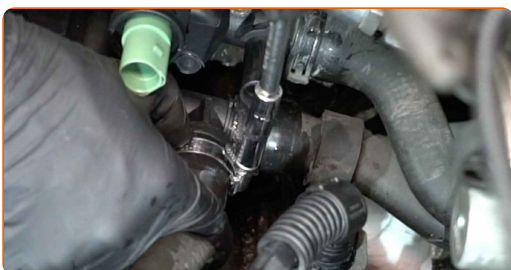
35 Secure the coolant hose clamp. Use clic-R collar pliers.



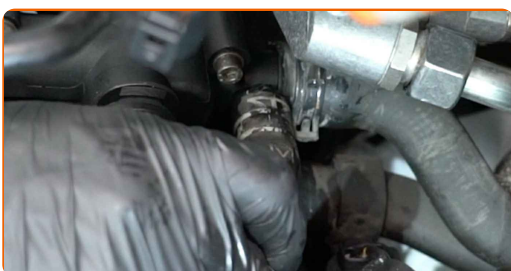
36 Attach the coolant hose.



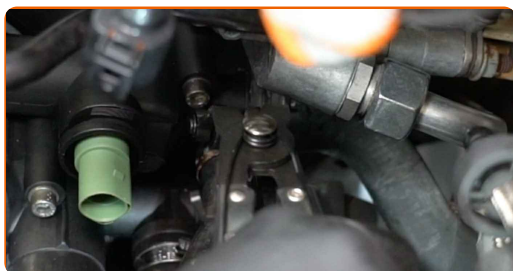
37 Secure the coolant hose clamp. Use a drive socket #7. Use a ratchet wrench.



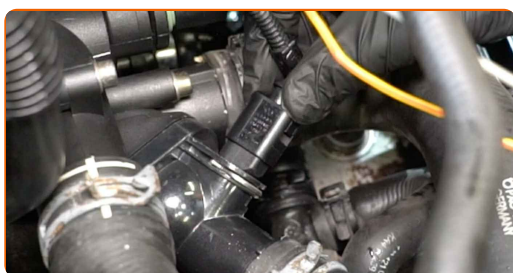
38 Connect the coolant hoses to the thermostat housing.



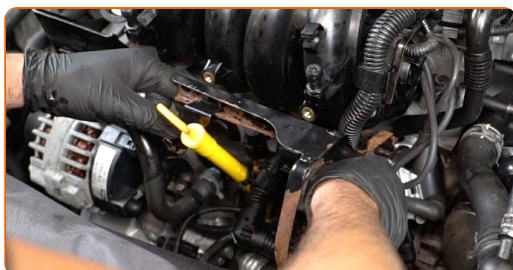
39 Attach the clamps of the coolant hoses. Use clic-R collar pliers.



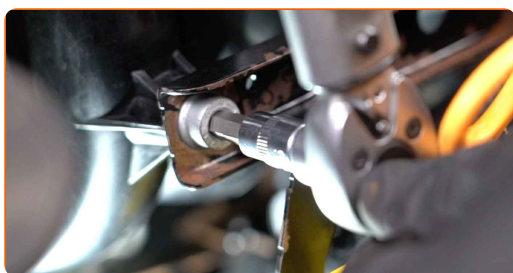
40 Plug in the connector of the coolant temperature sensor.



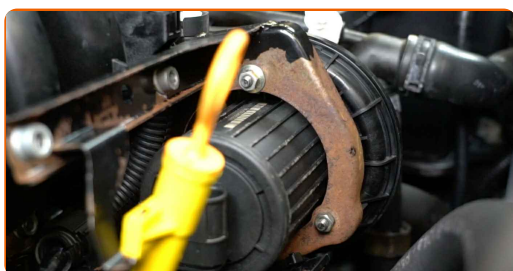
41 Install the secondary air pump bracket.



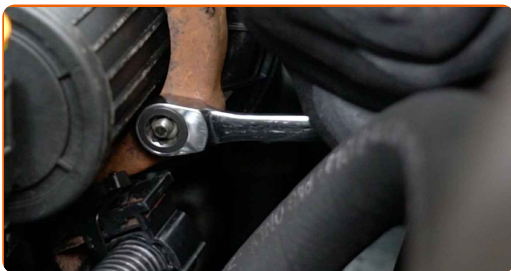
42 Tighten the fastener of the secondary air pump bracket. Use HEX No.H6. Use a drive socket #13. Use a torque wrench. Tighten it to 9 Nm torque.



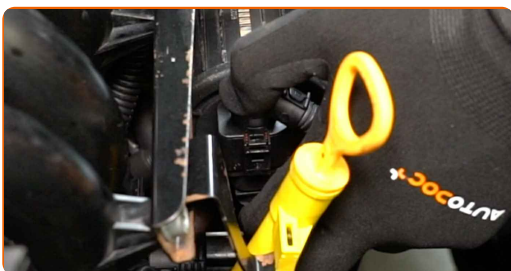
43 Install the secondary air pump.



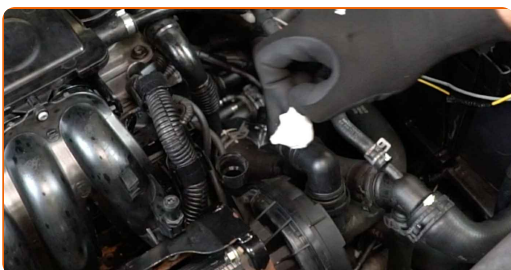
44 Screw in the fasteners connecting the secondary air pump to its bracket. Use a combination spanner #10.



45 Attach the secondary air pump connector.



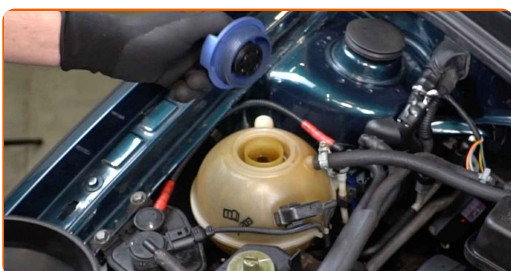
46 Remove the microfibre cloth from the secondary air pump channels.



47 Attach the secondary air pump hoses.



48 Remove the coolant reservoir cap.



49 Insert the funnel.



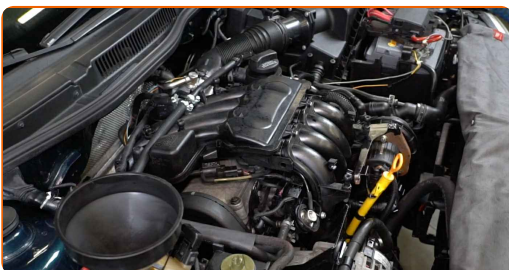
50 Pour coolant in the coolant reservoir.



Replacement: engine thermostat – VW Golf 4. Tip from AUTODOC experts:

- 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.

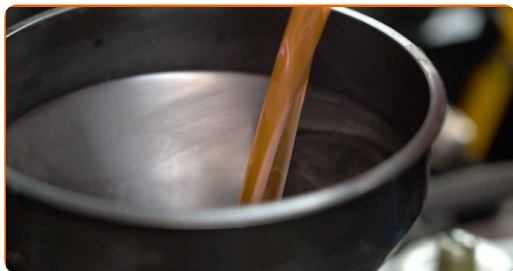
51 Run the engine for a few minutes. This should be done in order to remove residual air from the cooling system and to check if the components are operating correctly.



52 Shut off the engine.

53

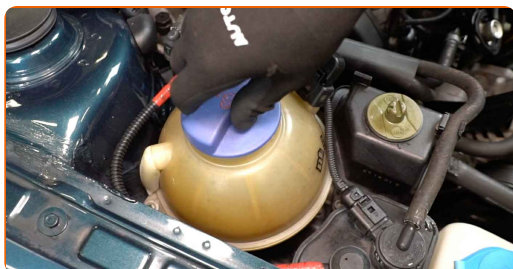
Check the coolant level. If necessary, top up to the required level.

**54**

Install the coolant reservoir cap.

55

Screw on the coolant reservoir cap.

**56**

Remove the fender protection cover.

**57**

Close the hood.

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