

## SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

### **Important!**

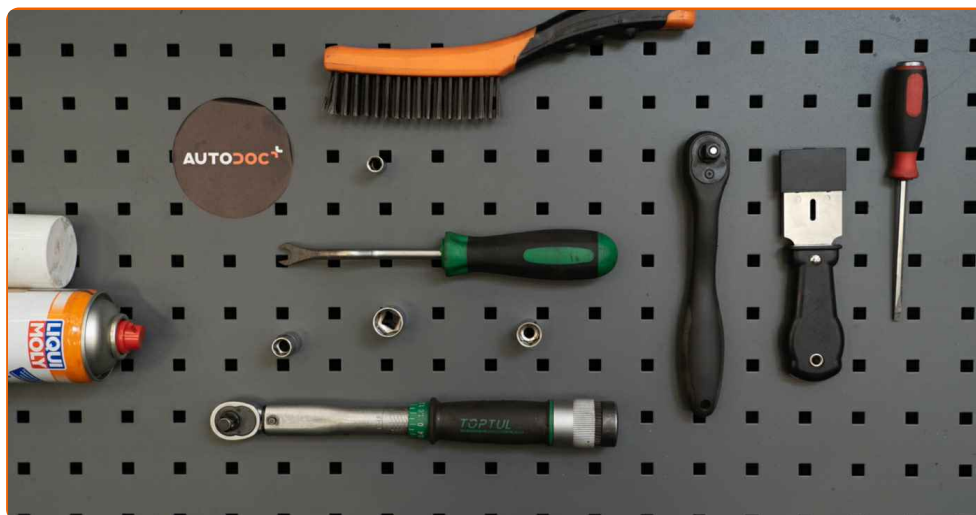
This replacement procedure can be used for:

BMW 5 Saloon (E39) 520i 2.0, BMW 5 Saloon (E39) 523i 2.5, BMW 5 Saloon (E39) 528i 2.8

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

## REPLACEMENT: WATER PUMP – BMW 5 SALOON (E39). TOOLS YOU MIGHT NEED:



- Wire brush
- All-purpose cleaning spray
- Sealant
- Torque wrench
- Drive socket # 7
- Drive socket # 10
- Drive socket # 13
- Drive socket # 16
- Ratchet wrench
- Clip removal tool
- Seal scraper
- Flat screwdriver
- Funnel
- Fluid container
- Fender cover

**Buy tools**

### Replacement: water pump – BMW 5 Saloon (E39). Tip from AUTODOC:

- Follow the terms, recommendations and requirements of the part operation provided by the manufacturer.
- Check the coolant condition and replace it if necessary.
- Inspect the thermostat and the thermostat housing. Replace if necessary.
- Please note: all work on the car – BMW 5 Saloon (E39) – 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**

Remove the fasteners of the air duct housing. Use a clip removal tool.

**4**

Remove the air distribution housing assembly.



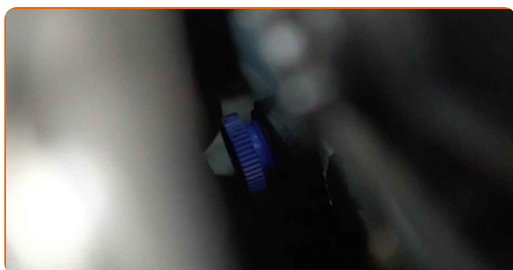
**5** Unscrew the coolant reservoir cap.



**6** Prepare a container for fluids.



**7** Open the coolant drain tap.



**8** Drain the coolant from the engine.



### Replacement: water pump – BMW 5 Saloon (E39). Tip from AUTODOC:

- Caution! The coolant can be very hot.
- Wear gloves to prevent contact with hot liquid.
- Please note: all work on the car – BMW 5 Saloon (E39) – should be done with the engine switched off.
- Wait until the coolant has completely flowed out of the drain hole.

9

Close the coolant drain tap.



10

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



11

Detach the coolant hose.



**12**

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



**13**

Detach the coolant hose.



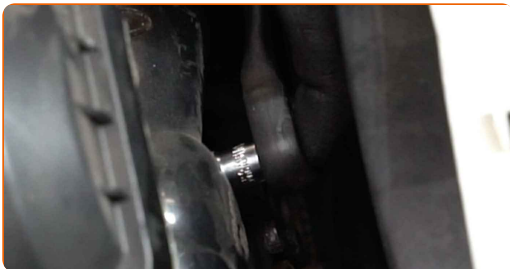
**14**

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



**15**

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



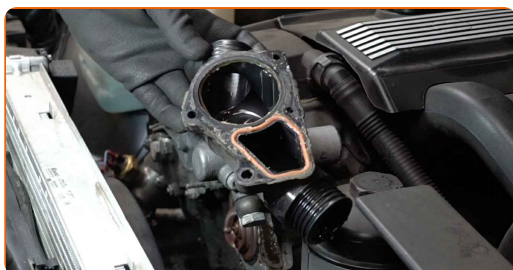
- 16** Clean the thermostat housing fasteners. Use all-purpose cleaning spray.



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



- 18** Remove the thermostat housing.



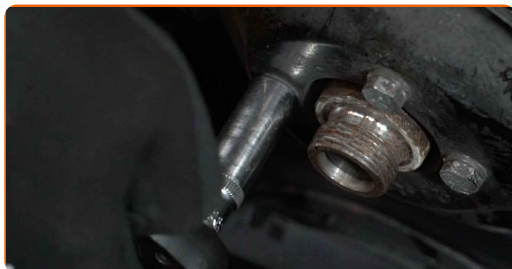
### AUTODOC recommends:

- Replacement: water pump – BMW 5 Saloon (E39). 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

Unscrew the water pump pulley fastener. Use a drive socket #10. Use a ratchet wrench.



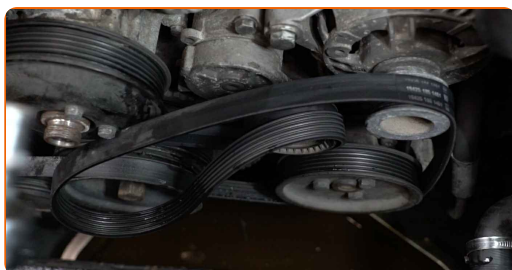
20

Pull aside the V-ribbed belt tensioner pulley. Use a drive socket #16. Use a ratchet wrench.



21

Remove the V-ribbed belt.



Replacement: water pump – BMW 5 Saloon (E39). AUTODOC experts recommend:

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

22

Return the tensioner pulley to its initial position.



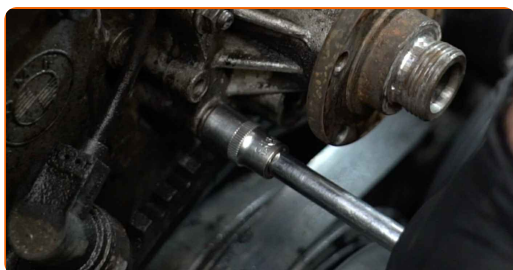
**23** Remove the water pump pulley.



**24** Clean the water pump mounting seat. Use a wire brush. Use all-purpose cleaning spray.



**25** Unscrew the water pump fasteners. Use a drive socket #10. Use a ratchet wrench.



**26** Remove the water pump.



**Replacement: water pump – BMW 5 Saloon (E39). Tip:**

- Caution! Coolant may come out from the water pump channels and body.

27

Clean the water pump mounting seat. Use a seal scraper. Use all-purpose cleaning spray.



28

Treat the water pump mounting seat. Use a sealant.



29

Install the new water pump.



30

Tighten the water pump fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 9 nm torque.

