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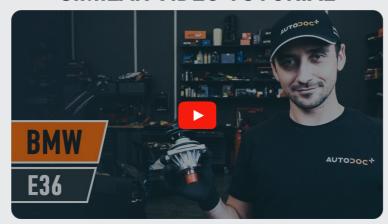
How to change water pump on **BMW 3 Compact (E36)** – replacement guide







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: BMW 3 Compact (E36) 323ti 2.5

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

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REPLACEMENT: WATER PUMP – BMW 3 COMPACT (E36). 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

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Replacement: water pump – BMW 3 Compact (E36). 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 3 Compact (E36) 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.
- Remove the fasteners of the air duct housing. Use a clip removal tool.
- Remove the air distribution housing assembly.



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Unscrew the coolant reservoir cap.



6 Prepare a container for fluids.

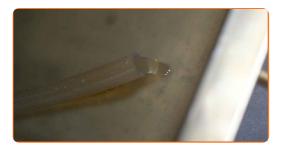


Open the coolant drain tap.

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Drain the coolant from the engine.



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Replacement: water pump – BMW 3 Compact (E36). 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 3 Compact (E36) should be done with the engine switched off.
- Wait until the coolant has completely flowed out of the drain hole.

Close the coolant drain tap.

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



Detach the coolant hose.



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



Detach the coolant hose.

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



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



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



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 3 Compact (E36). 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.

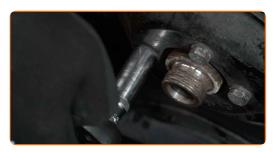
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Unscrew the water pump pulley fastener. Use a drive socket #10. Use a ratchet wrench.



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



Remove the V-ribbed belt.



Replacement: water pump – BMW 3 Compact (E36). 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 water pump pulley.



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



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



Remove the water pump.



Replacement: water pump – BMW 3 Compact (E36). Tip:

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

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



Treat the water pump mounting seat. Use a sealant.



29 Install the new water pump.

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



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Install the water pump pulley.



Screw in the fasteners of the water pump pulley. Use a drive socket #10. Use a ratchet wrench.



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



34 Install the V-ribbed belt.



Replacement: water pump – BMW 3 Compact (E36). AUTODOC recommends:

• Make sure that the V-ribbed belt fits all pulleys snugly.

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Return the tensioner pulley to its initial position. Use a drive socket #16. Use a ratchet wrench.



Tighten the water pump pulley fastener. Use a drive socket #10. Use a torque wrench. Tighten it to 17 nm torque.



Treat the thermostat housing mounting seat. Use a sealant.



Install the thermostat housing.



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AUTODOC recommends:

• Replacement: water pump – BMW 3 Compact (E36). To avoid damaging the part during installation, do not use excessive force.





Tighten the thermostat housing fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 7 nm torque.



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



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Connect the coolant hoses to the thermostat housing.



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



Remove the coolant reservoir cap.



45 Insert the funnel.



Pour coolant in the coolant reservoir.



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Replacement: water pump – BMW 3 Compact (E36). AUTODOC experts recommend:

- 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.

47

Open the coolant system bleed screw. Use a flat screwdriver.



Replacement: water pump – BMW 3 Compact (E36). Tip from AUTODOC experts:

• This should be done in order to remove residual air from the cooling system and to check if the components are operating correctly.

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



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Install the coolant reservoir cap.



Screw on the coolant reservoir cap.



- 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.
- Close the coolant system bleed screw. Use a flat screwdriver.



- 53 Shut off the engine.
- Reinstall the air distribution housing assembly.
- 55 Install the air duct housing fasteners.
- Remove the fender protection cover.

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Close the hood.



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WATER PUMP: A WIDE SELECTION

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