



How to change water  
pump on **VW Passat  
Variant (33B)** –  
replacement guide

## 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:  
VW Passat Variant (33B) 1.6, VW Passat Variant (33B) 1.8

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: VW GOLF II (19E, 1G1) 1.6

**REPLACEMENT: WATER PUMP – VW PASSAT VARIANT (33B). TOOLS YOU NEED:**



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Sealant
- Torque wrench
- Combination spanner #13
- Drive socket # 7
- Drive socket # 10
- Drive socket # 13
- HEX bit No.H6
- Ratchet wrench
- Seal scraper
- Funnel
- Fluid container
- Fender cover

**Buy tools**

**Replacement: water pump – VW Passat Variant (33B). Tip from AUTODOC:**

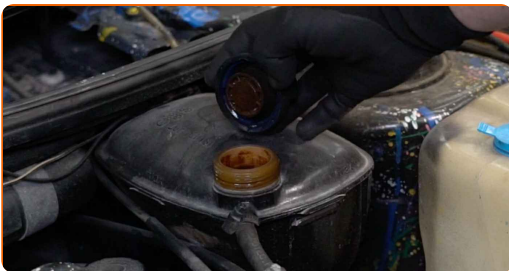
- Follow the terms, recommendations and requirements of the part operation provided by the manufacturer.
- Check the coolant condition and replace it if necessary.
- Inspect the thermostat and the thermostat housing. Replace if necessary.
- Please note: all work on the car – VW Passat Variant (33B) – should be done with the engine switched off.

**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

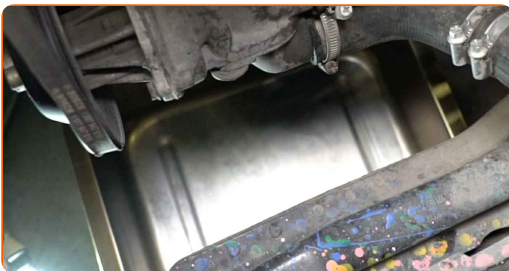
**1** Open the hood.

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

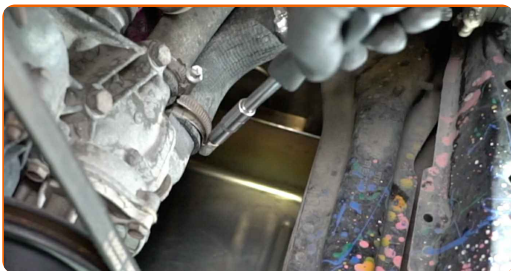
**3** Unscrew the coolant reservoir cap.



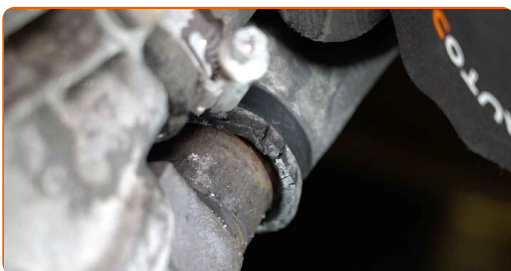
**4** Prepare a container for fluids.



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



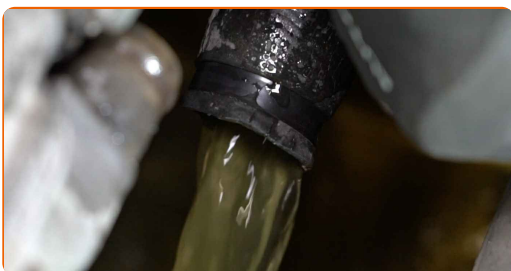
**6** Detach the coolant hose.



**Replacement: water pump – VW Passat Variant (33B). Tip:**

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

**7** Drain the coolant from the engine.

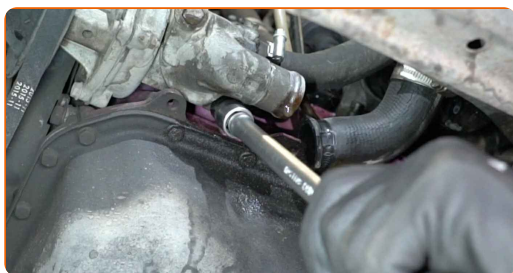


Replacement: water pump – VW Passat Variant (33B). AUTODOC experts recommend:

- 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.

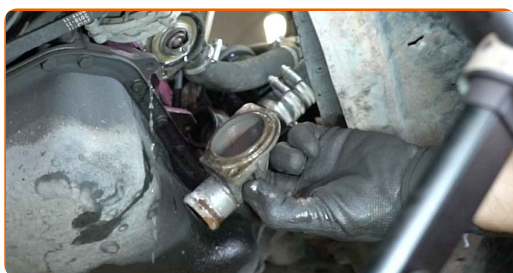
8

Unscrew the thermostat housing fasteners. Use a drive socket #13. Use a ratchet wrench.



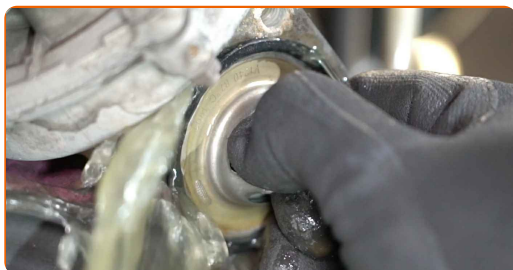
9

Remove the thermostat housing.



10

Remove the thermostat.



**AUTODOC recommends:**

- Replacement: water pump – VW Passat Variant (33B). 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.

**11**

Clean the water pump pulley fastener. Use a wire brush. Use WD-40 spray.



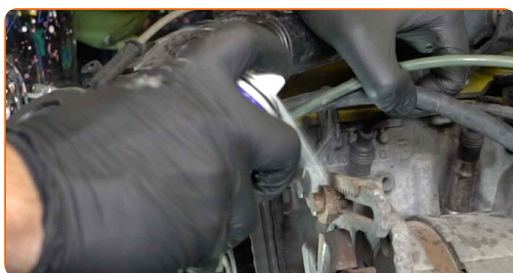
**12**

Unscrew the water pump pulley fastener. Use HEX No.H6. Use a ratchet wrench.



**13**

Clean the alternator fasteners. Use a wire brush. Use WD-40 spray.



**14** Loosen the alternator fasteners. Use a combination spanner #13.



**15** Move the alternator aside.



**16** Remove the V belt.



**17** Remove the water pump pulley.

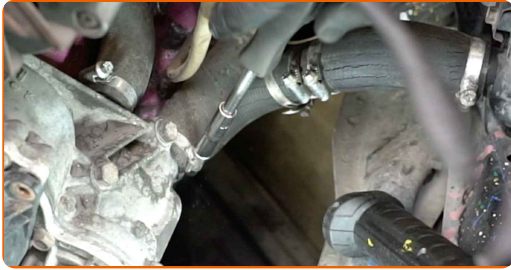


**18** Unscrew the fasteners of the water pump housing. Use a drive socket #10. Use a ratchet wrench.





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



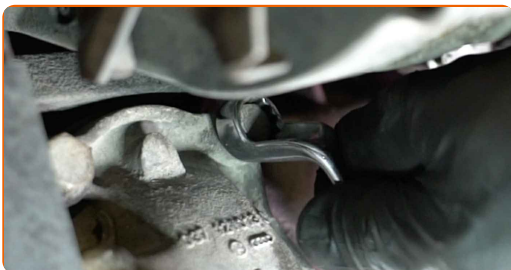
**20** Detach the coolant hose.



Replacement: water pump – VW Passat Variant (33B). Tip from AUTODOC:

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

**21** Unscrew the water pump fasteners. Use a combination spanner #13. Use a drive socket #13. Use a ratchet wrench.



22

Remove the water pump.

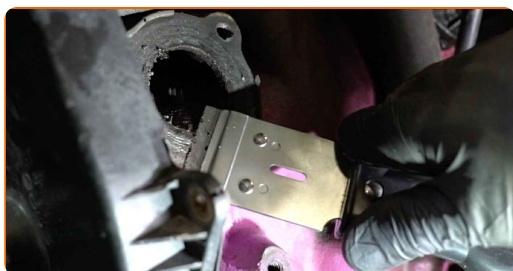


Replacement: water pump – VW Passat Variant (33B). AUTODOC recommends:

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

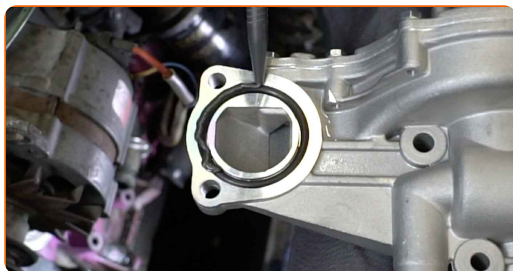
23

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



24

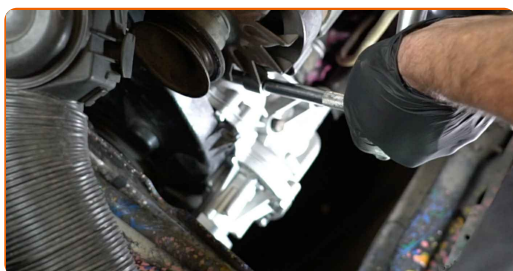
Treat the water pump mounting seat. Use a sealant.



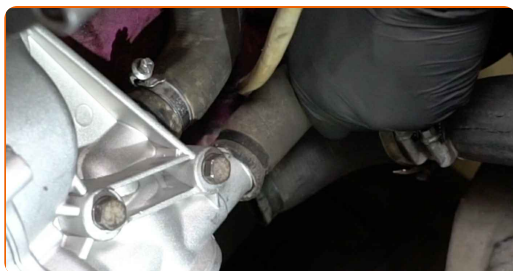
**25** Install the new water pump.



**26** Tighten the water pump fasteners. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 14 nm torque.



**27** Attach the coolant hose.



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



**29** Install the water pump pulley.



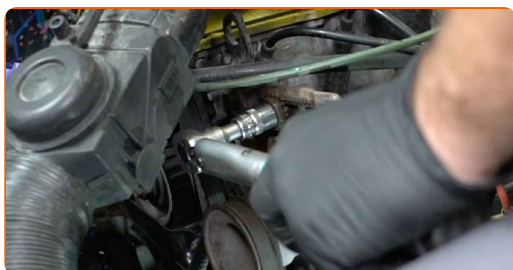
**30** Install the V belt.



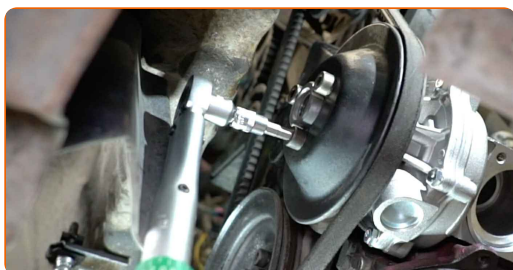
**31** Put the alternator back in place.



**32** Tighten the alternator fasteners. Use a drive socket #13. Use a torque wrench. Tighten it to 10 nm torque.



**33** Tighten the water pump pulley fastener. Use HEX No.H6. Use a torque wrench. Tighten it to 9 nm torque.



34

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



35

Install the thermostat.



**AUTODOC recommends:**

- Replacement: water pump – VW Passat Variant (33B). Do not use excessive force during installation. This may damage the part.

36

Install the thermostat housing.



**37** Tighten the thermostat housing fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 13 nm torque.



**38** Attach the coolant hose.



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

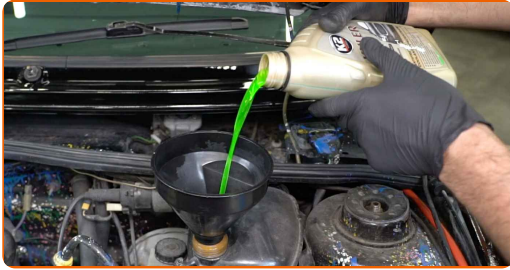


**40** Remove the coolant reservoir cap.

**41** Insert the funnel.



**42** Pour coolant in the coolant reservoir.



Replacement: water pump – VW Passat Variant (33B). Professionals recommend:

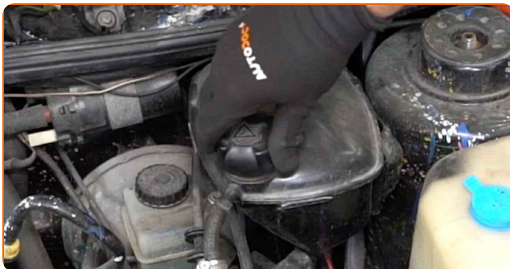
- Only use the coolant recommended by the manufacturer.
- The coolant level should be at the MAX mark.
- Wait until the air goes out of the system.

**43** 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.

**44** Shut off the engine.

**45** Install the coolant reservoir cap.

**46** Screw on the coolant reservoir cap.



**47** Remove the fender protection cover.

48

Close the hood.

**WELL DONE!** 

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