



How to change water  
pump & timing belt kit  
on **CITROËN C5 II Break**  
**(RE\_)** – 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:  
CITROËN C5 II Break (RE\_) 2.0 HDi

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: PEUGEOT 307 SW (3H) 2.0 HDi 135

**REPLACEMENT: WATER PUMP & TIMING BELT KIT –  
CITROËN C5 II BREAK (RE\_). LIST OF THE TOOLS  
YOU'LL NEED:**



- Wire brush
- All-purpose cleaning spray
- Brake cleaner
- Sealant
- Copper grease
- Torque wrench
- Combination spanner #10
- Combination spanner #13
- Combination spanner #15
- Torx bit T20
- Torx bit T50
- HEX bit No.H6.
- Drive socket # 10
- Drive socket # 11
- Drive socket # 13
- Drive socket # E14
- Drive socket # 15
- Drive socket # 16
- Drive socket # 22
- Wheel impact socket #17
- Ratchet wrench
- Funnel
- Fluid container
- Clip removal tool
- Universal puller
- Seal scraper
- Flat Screwdriver
- Clic-R collar pliers
- Engine timing tool set
- Engine support beam
- Fender cover
- Wheel chock

**Buy tools**

Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_).  
AUTODOC recommends:

- Follow the terms, recommendations and requirements of the part operation provided by the manufacturer.
- All work should be done with the engine stopped.

**REPLACEMENT: WATER PUMP & TIMING BELT KIT – CITROËN C5 II BREAK (RE\_). RECOMMENDED SEQUENCE OF STEPS:**

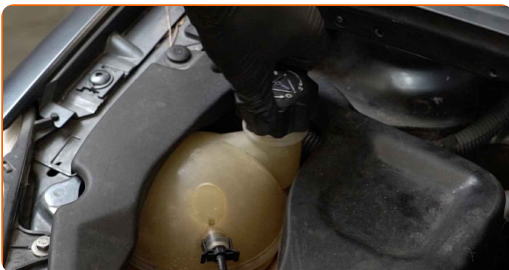
**1** Open the bonnet.

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

**3** Remove the battery terminals.

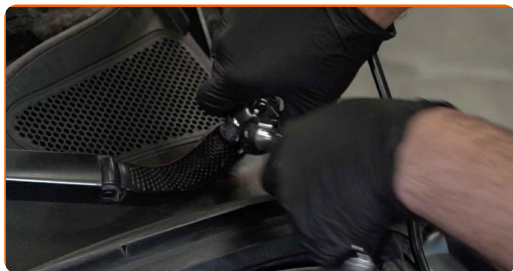


**4** Unscrew the coolant reservoir cap.



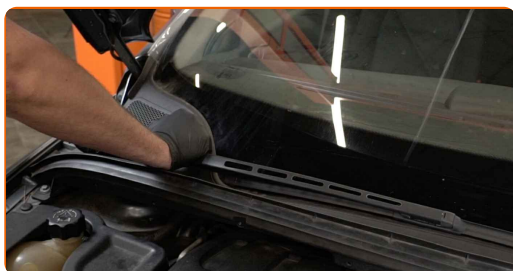
5

Unscrew the fasteners of the windscreen wiper arms. Use a drive socket #16. Use a ratchet wrench.



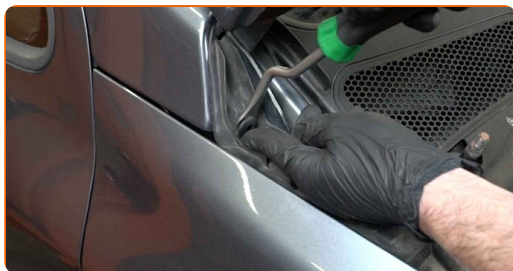
6

Remove the wiper arms. Use a universal puller.



7

Remove the clips of the plastic cowl grille. Use a clip removal tool.



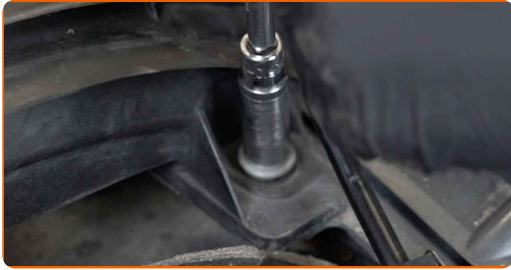
8

Unscrew the fasteners of the brake fluid reservoir. Use Torx T20. Use a ratchet wrench.



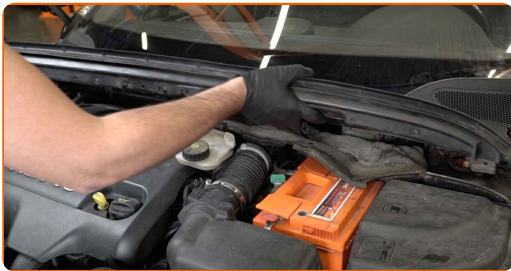
9

Unscrew the fasteners of the cowl grille. Use a drive socket #10. Use a ratchet wrench.



10

Raise up and remove the cowl grille.



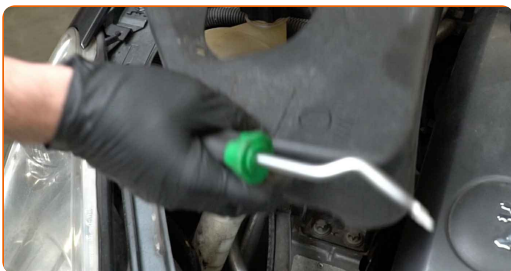
11

Release the coolant reservoir retainers. Use a clip removal tool.

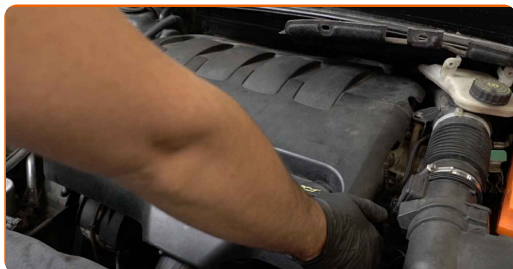


12

Remove the coolant tank protective cover.



**13** Remove the engine cover.



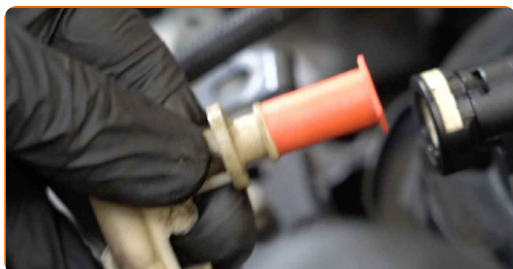
**AUTODOC recommends:**

- Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_). Do not use excessive force when removing the part as this may damage it.

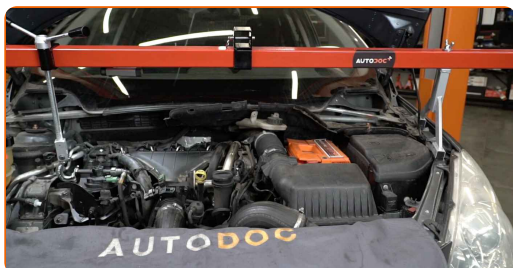
**14** Squeeze the clips and detach the fuel supply lines from the fuel filter housing. Use a flat screwdriver.



**15** Close the fuel lines with caps.

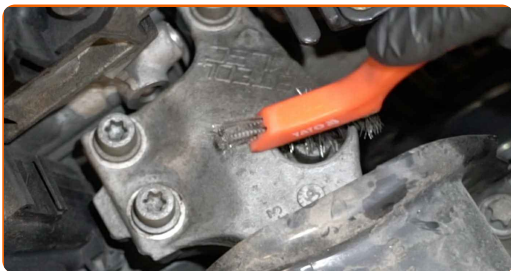


**16** Secure the engine. Use an engine support beam.



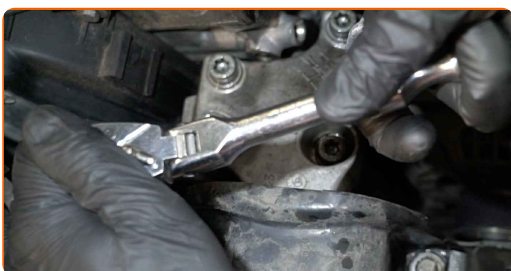
17

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



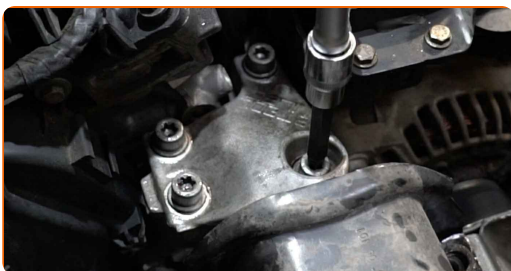
18

Unscrew the fasteners that connect the engine mount to the car body. Use a drive socket #E14. Use a ratchet wrench.



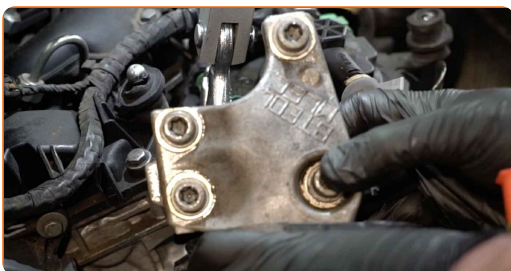
19

Unscrew the engine mount fasteners. Use Torx T50. Use a ratchet wrench.



20

Remove the engine mount.



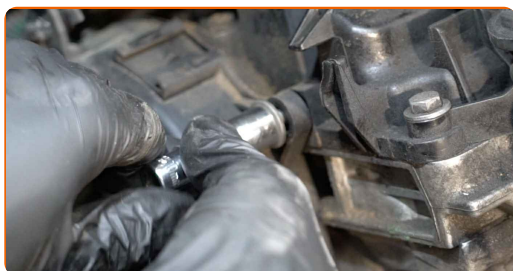


Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_). Tip:

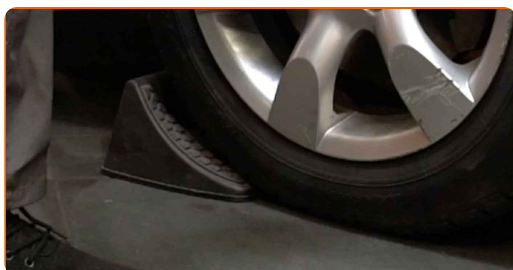
- Carefully check the other engine mounts and replace them if necessary.

**21** Remove the fastening bolts.

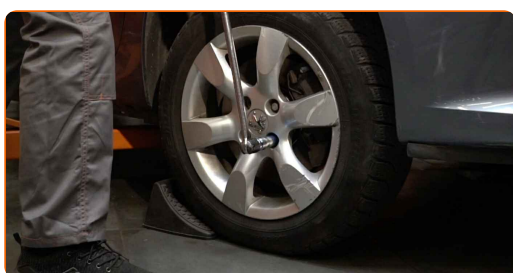
**22** Unscrew the fasteners of the upper timing cover. Use a drive socket #10. Use a ratchet wrench.



**23** Secure the wheels with chocks.



**24** Loosen the wheel mounting bolts. Use wheel impact socket #17.



**25** Raise the front of the car and secure on supports.

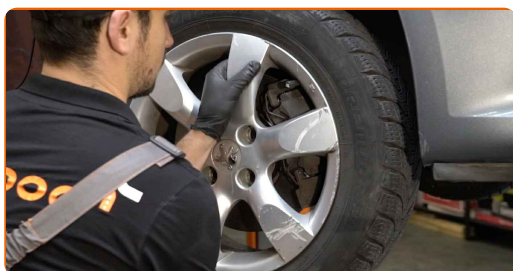
**26** Unscrew the wheel bolts.



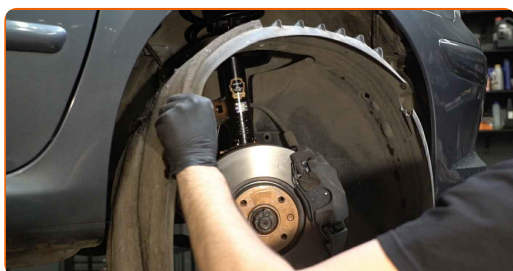
**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
CITROËN C5 II Break (RE\_)

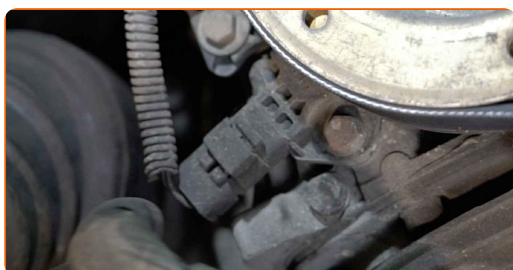
**27** Remove the wheel.



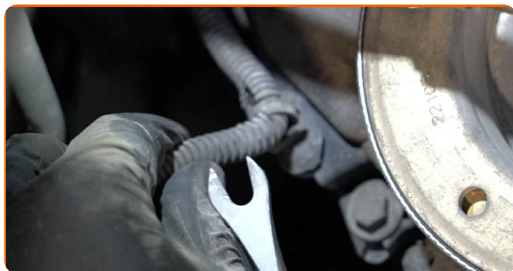
**28** Remove the wheel arch cover.



**29** Disconnect the connector of the crankshaft position sensor.



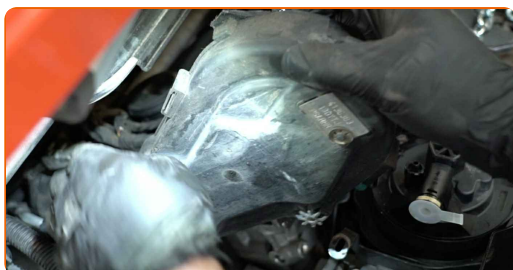
**30** Detach the crankshaft position sensor wiring. Use a clip removal tool.



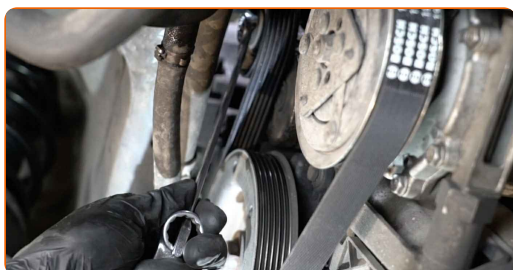
**31** Unscrew the fasteners of the upper timing cover. Use a combination spanner #10.



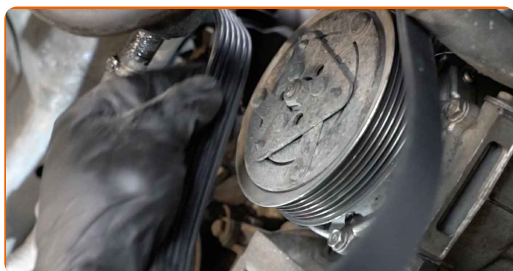
**32** Remove the upper timing cover.



**33** Pull aside the V-ribbed belt tensioner pulley. Use a combination spanner #15.

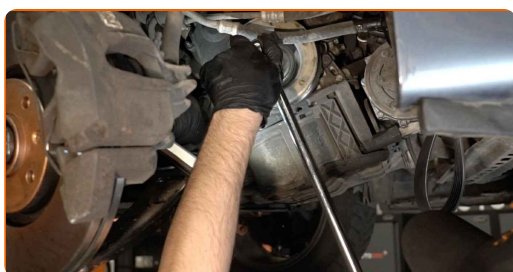


**34** Remove the V-ribbed belt.



**35** Return the tensioner pulley to its initial position. Use a combination spanner #15.

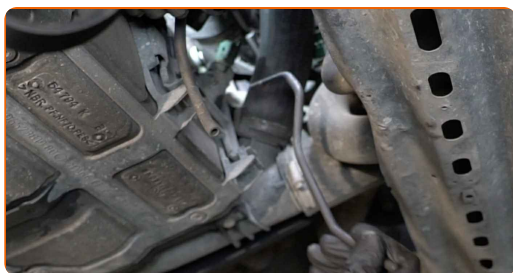
**36** Turn the crankshaft gear. Use a drive socket #22. Use a ratchet wrench.



**Please note!**

- The piston should be at its top dead centre (TDC).

**37** Install the crankshaft locking tool according to the factory marks. Use an engine timing tool set.



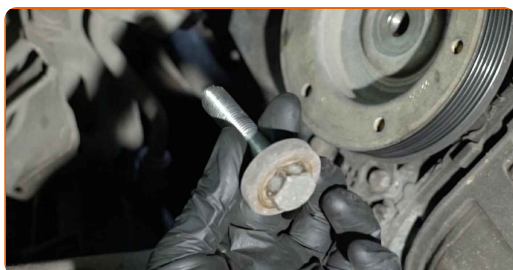
**38** Install the camshaft gear locking tool according to the factory marks. Use an engine timing tool set.



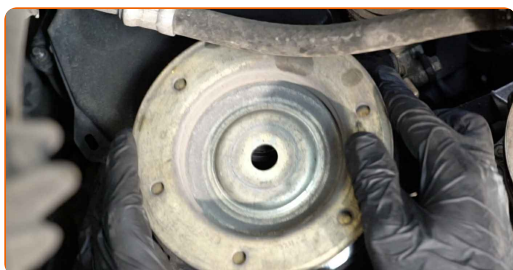
**39** Unscrew the crankshaft pulley fastener. Use a drive socket #22. Use a ratchet wrench.



**40** Remove the fastening bolt.



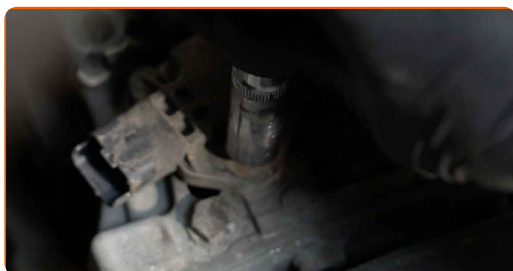
**41** Remove the crankshaft pulley.



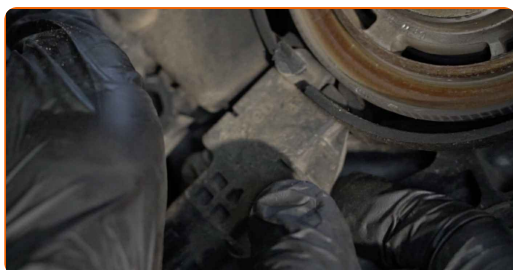
**42** Unscrew the fasteners of the lower timing cover. Use a drive socket #10. Use a ratchet wrench.



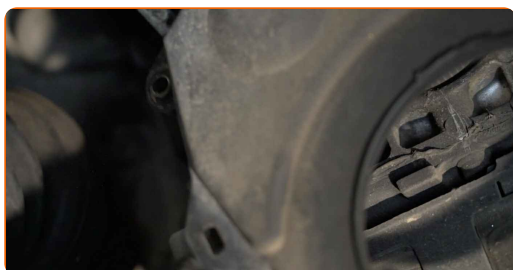
**43** Unscrew the fastener of the crankshaft position sensor. Use a drive socket #10. Use a ratchet wrench.



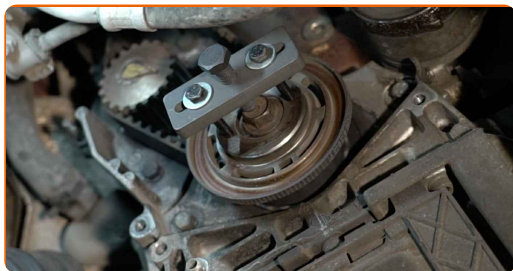
**44** Remove the crankshaft position sensor.



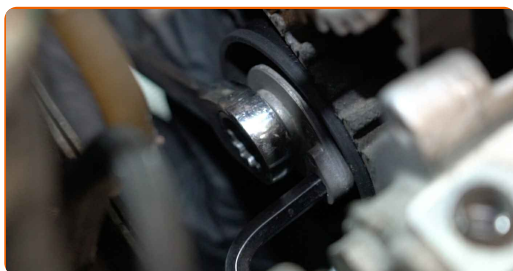
**45** Remove the lower timing cover.



**46** Remove the crankshaft gear locking tool. Use a universal puller.



**47** Loosen the fastener of the timing belt tensioner pulley. Use a combination spanner #13. Use HEX No.H6.



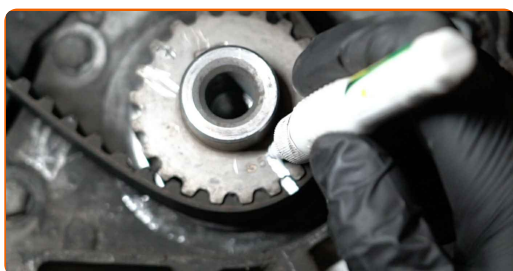
**48** Make a mark on the timing belt.



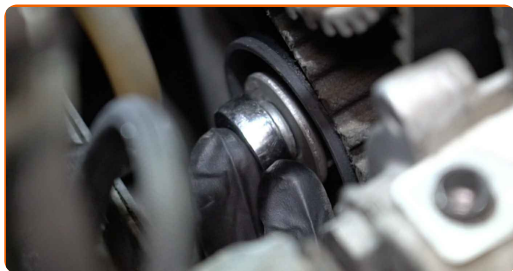
**49** Make a mark on the camshaft gear.



**50** Make a mark on the crankshaft gear.



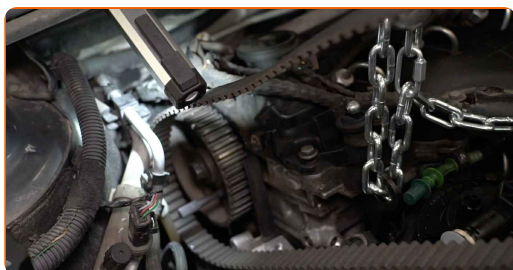
**51** Unscrew the fastener of the timing belt tensioner pulley. Use a combination spanner #13.



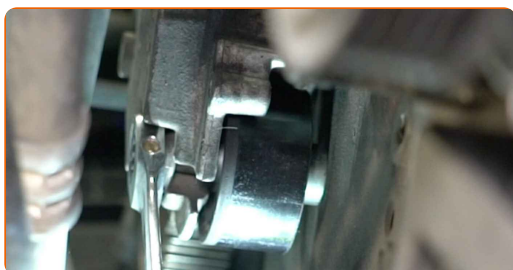
**52** Remove the timing belt tensioner pulley.



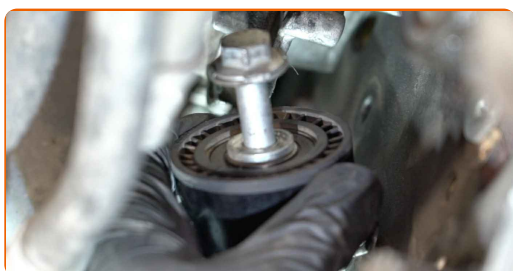
**53** Remove the timing belt.



**54** Unscrew the fastener of the timing belt idler pulley. Use a combination spanner #15.



**55** Remove the timing belt idler pulley from its mounting seat.

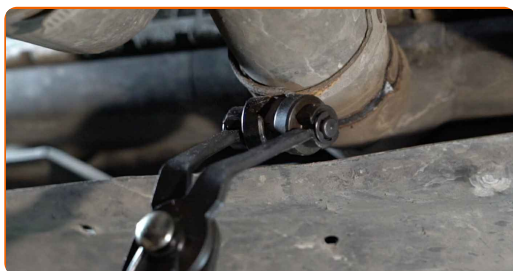




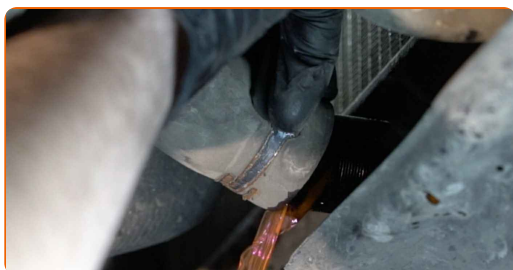
**56** Prepare a container for fluids.



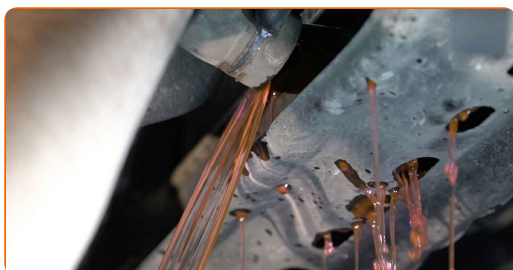
**57** Detach the clamp of the lower coolant pipe. Use clic-R collar pliers.



**58** Detach the lower coolant pipe.



**59** Drain the coolant from the engine.

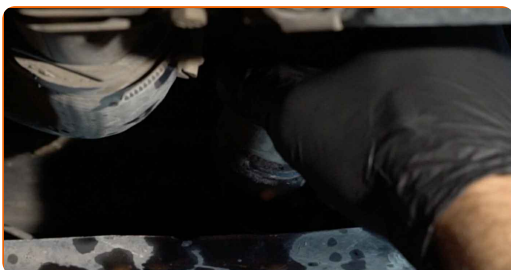


Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_).  
Professionals recommend:

- Caution! The coolant can be very hot.
- Wear gloves to prevent contact with hot liquid.
- All work should be done with the engine stopped.

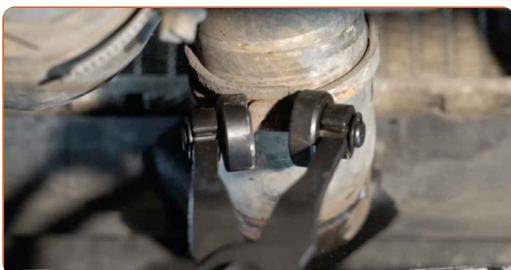
60

Attach the lower coolant pipe.



61

Attach the clamp of the lower coolant pipe. Use clic-R collar pliers.



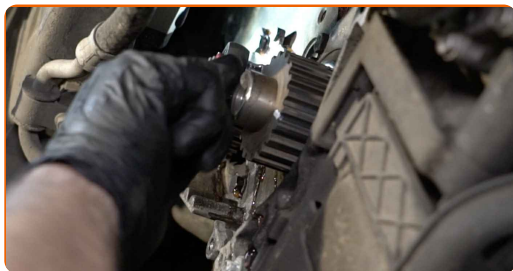
62

Clean the water pump fasteners. Use all-purpose cleaning spray.



63

Unscrew the water pump fasteners. Use a drive socket #11. Use a ratchet wrench.



64

Remove the water pump.



Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_).  
AUTODOC experts recommend:

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

65

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



**66** Clean the water pump. Use all-purpose cleaning spray.



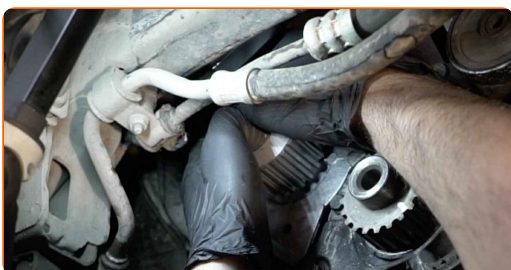
**67** Install the water pump gasket.



**68** Treat the fastening bolts. Use a sealant.



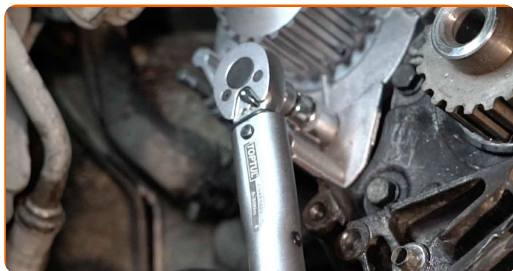
**69** Install the new water pump.



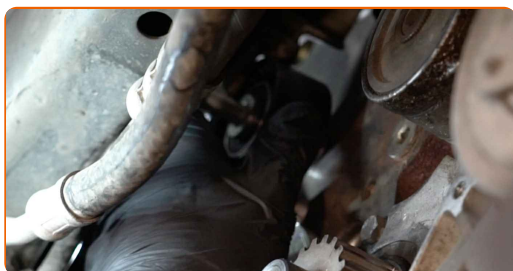
**70** Screw in the water pump fasteners. Use a drive socket #11. Use a ratchet wrench.



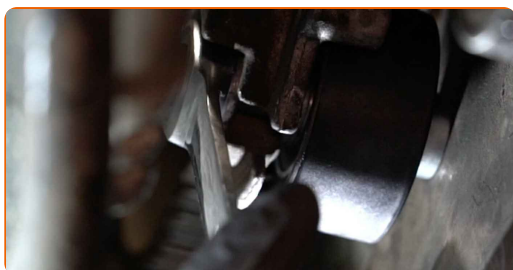
**71** Tighten the water pump fasteners. Use a drive socket #11. Use a torque wrench. Tighten it to 12 Nm torque.



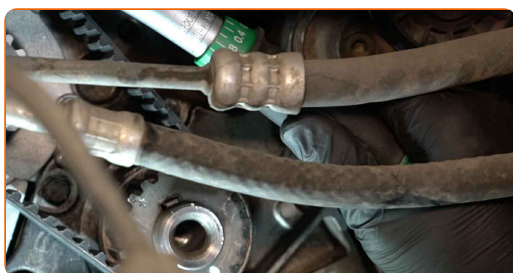
**72** Install the timing belt idler pulley.



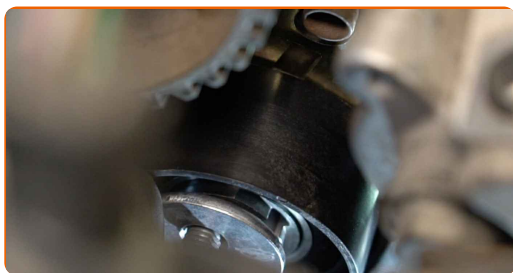
**73** Screw in the fastener of the timing belt idler pulley. Use a combination spanner #15.



**74** Tighten the fastener of the timing belt idler pulley. Use a drive socket #15. Use a torque wrench. Tighten it to 35 Nm torque.

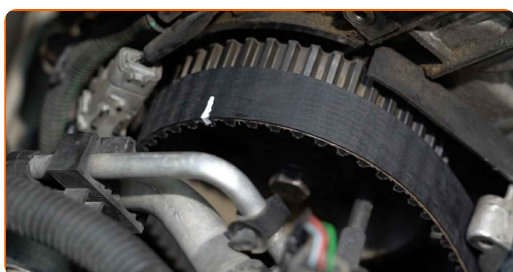


**75** Install the timing belt tensioner pulley.



**76** Screw in the fastener of the timing belt tensioner pulley. Use a combination spanner #13.

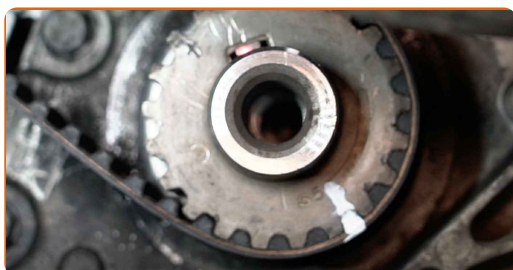
**77** Install the new timing belt according to the factory marks.



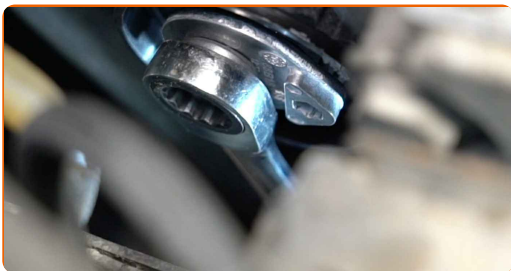
Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_). Tip from AUTODOC:

- Be careful not to damage the timing belt.

**78** Install the crankshaft gear locking tool according to the factory marks. Use an engine timing tool set.



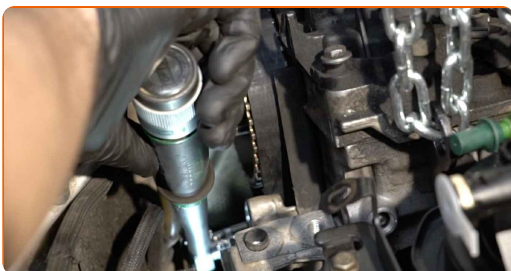
**79** Adjust the timing belt tension by moving the tensioner pulley. Use a combination spanner #13. Use HEX No.H6.



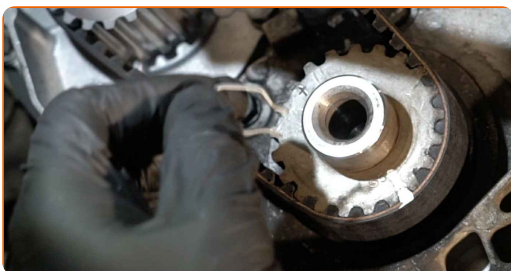
Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_). Tip from AUTODOC experts:

- Make sure that the timing belt is properly tensioned.

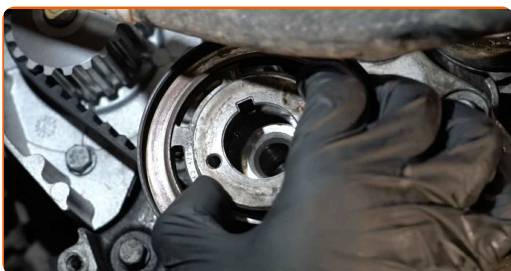
**80** Tighten the fastener of the timing belt tensioner pulley. Use a drive socket #13. Use a torque wrench. Tighten it to 21 Nm torque.



**81** Remove the crankshaft gear locking tool.



**82** Install the crankshaft gear locking tool.



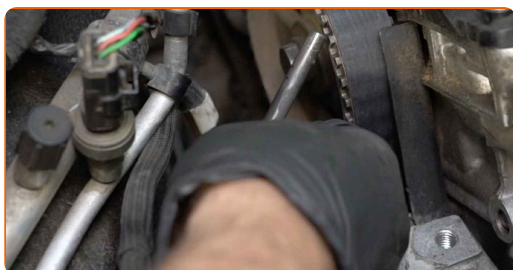
**83** Install the fastening bolt.



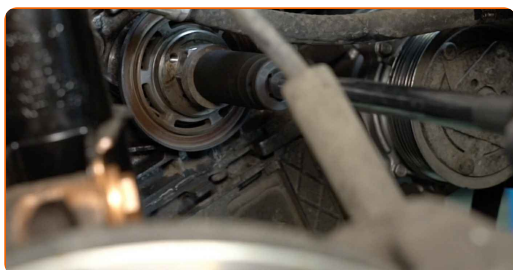
**84** Remove the crankshaft locking tool.



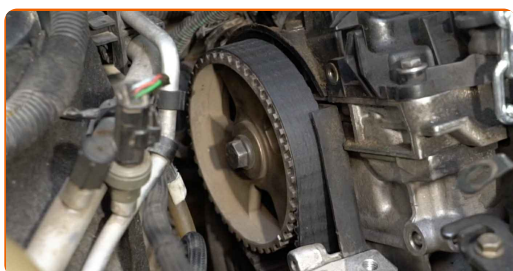
**85** Remove the camshaft gear locking tool.



**86** Screw in the crankshaft pulley fastener. Use a drive socket #22. Use a ratchet wrench.



**87** Turn the crankshaft gear. Use a drive socket #22. Use a ratchet wrench.



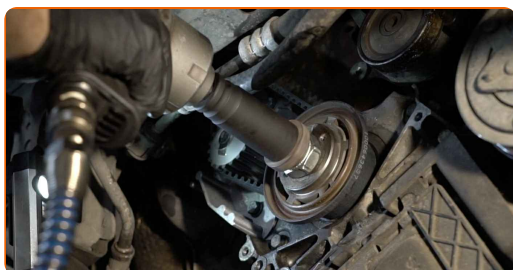


Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_).  
AUTODOC experts recommend:

- Make sure all the timing belt components are mounted correctly.

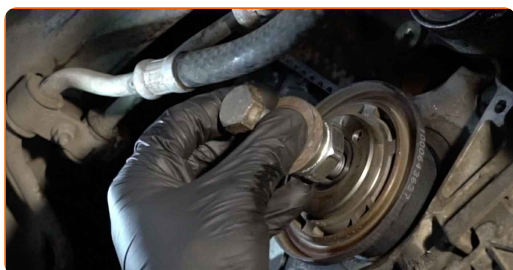
88

Unscrew the crankshaft pulley fastener. Use a drive socket #22. Use a ratchet wrench.



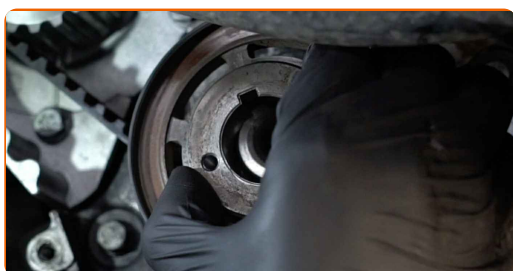
89

Remove the fastening bolt.



90

Remove the crankshaft gear locking tool.



91

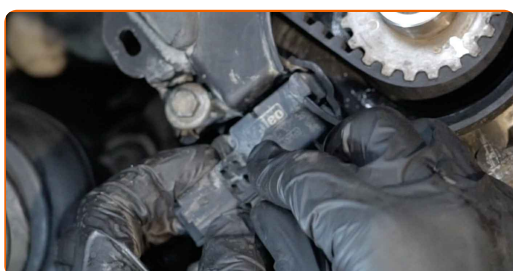
Install the lower timing cover.



- 92** Tighten the fasteners of the lower timing cover. Use a drive socket #10. Use a torque wrench. Tighten it to 12 Nm torque.



- 93** Install the crankshaft position sensor.



- 94** Tighten the fastener of the crankshaft position sensor. Use a drive socket #10. Use a torque wrench. Tighten it to 14 Nm torque.



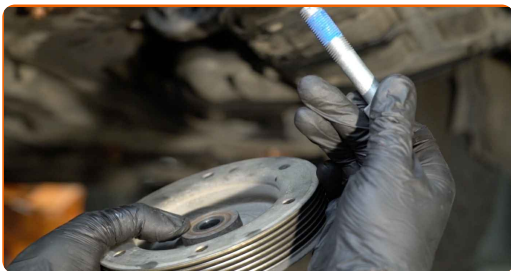
- 95** Install the crankshaft gear locking tool.



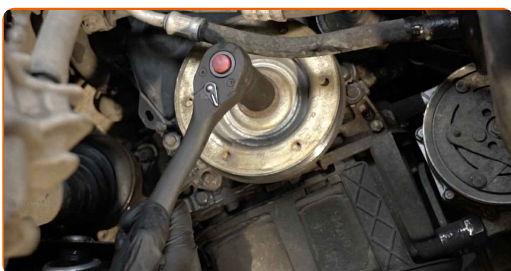
- 96** Install the crankshaft locking tool according to the factory marks. Use an engine timing tool set.

- 97** Install the crankshaft pulley according to the factory marks.

**98** Install the fastening bolt.



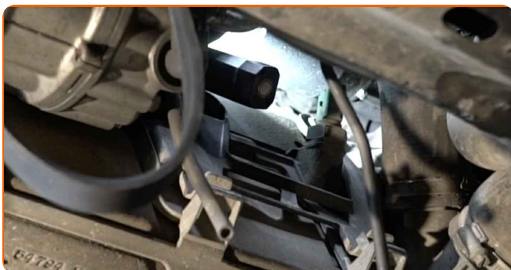
**99** Tighten the crankshaft pulley fastener. Use a drive socket #22. Use a torque wrench. Tighten it to 80 Nm torque.+60°



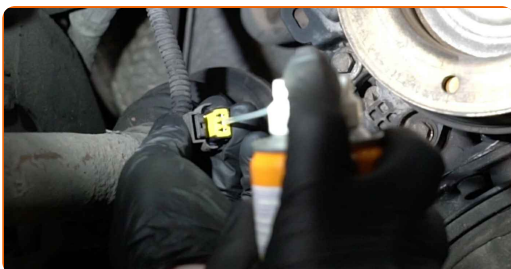
**AUTODOC recommends:**

- Important! Be sure to use new fasteners.

**100** Remove the crankshaft locking tool.



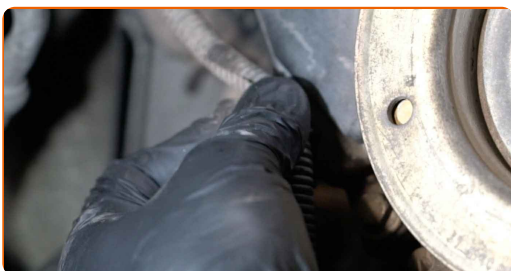
**101** Treat the connector of the crankshaft position sensor. Use all-purpose cleaning spray.



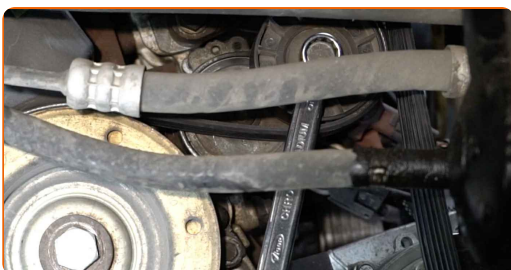
**102** Connect the connector of the crankshaft position sensor.



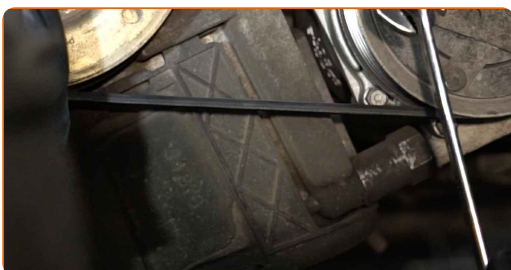
**103** Attach the crankshaft position sensor wiring.



**104** Pull aside the V-ribbed belt tensioner pulley. Use a combination spanner #15.



**105** Install the V-ribbed belt.

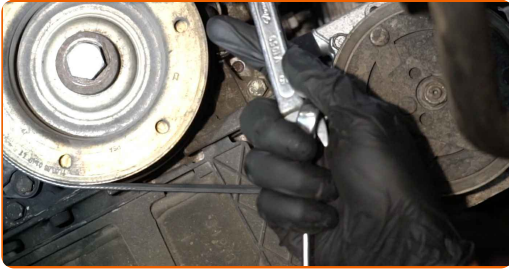


Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_). Tip:

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

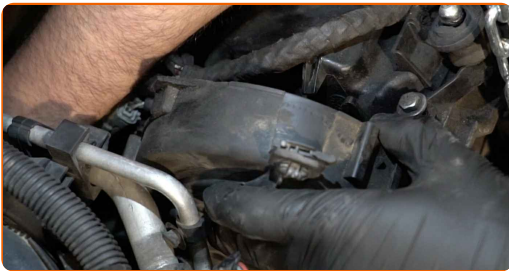
**106**

Return the tensioner pulley to its initial position. Use a combination spanner #15.



**107**

Install the upper timing cover.

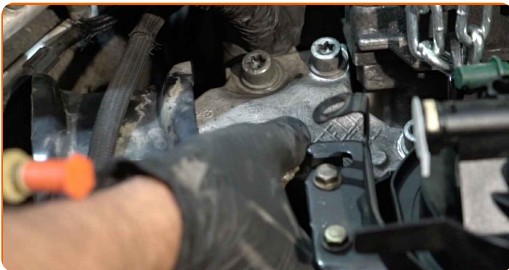


**108**

Tighten the fasteners of the upper timing cover. Use a drive socket #10. Use a torque wrench. Tighten it to 12 Nm torque.

**109**

Install the engine mount to its mounting seat.

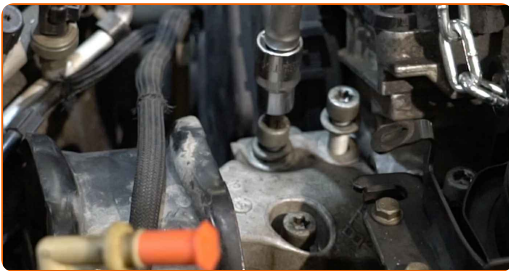


**110**

Install the fastening bolts.

**111**

Screw in the engine mount fasteners. Use Torx T50. Use a ratchet wrench.

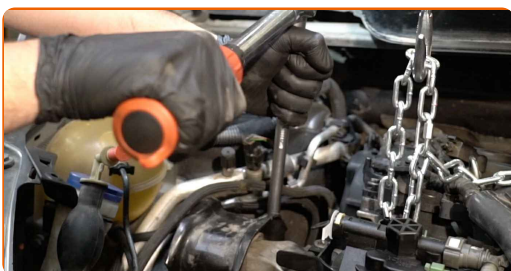


**112**

Screw in the fasteners that connect the engine mount to the car body. Use a drive socket #E14. Use a ratchet wrench.

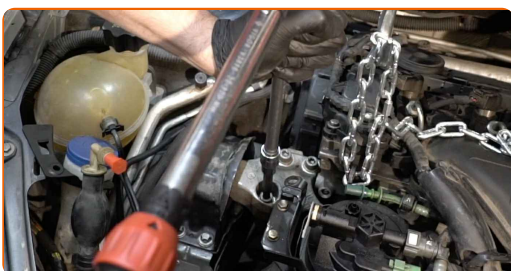
**113**

Tighten the fasteners that connect the engine mount to the car body. Use a drive socket #E14. Use a torque wrench. Tighten it to 60 nm torque.



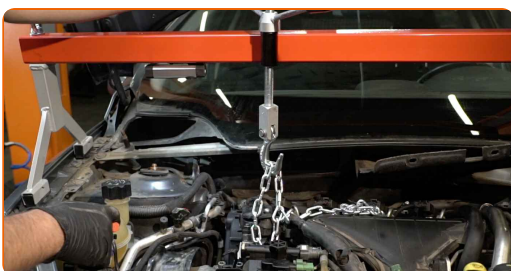
**114**

Tighten the engine mount fastening bolts. Use Torx T50. Use a torque wrench. Tighten it to 60 nm torque.



**115**

Remove the engine support beam.



Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_).  
AUTODOC recommends:

- Be careful not to damage the paintwork and plastic parts of the car.

**116** Remove the caps from the fuel lines.



**117** Connect the fuel lines to the fuel filter and lock the fastening clips.



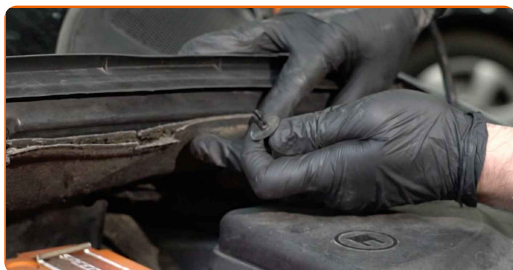
**118** Press the fuel primer pump several times until it gets hard.



**119** Install and secure the cowl grille.

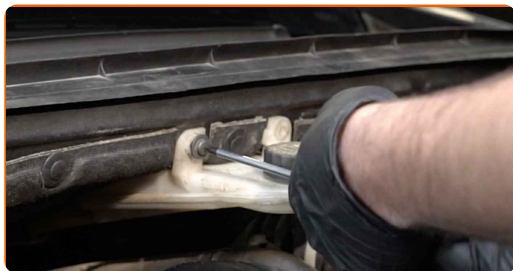


**120** Install the fasteners of the wiper plastic cowl grille.



121

Tighten the brake fluid reservoir fasteners. Use Torx T20. Use a ratchet wrench.



122

Reinstall the wiper arms.

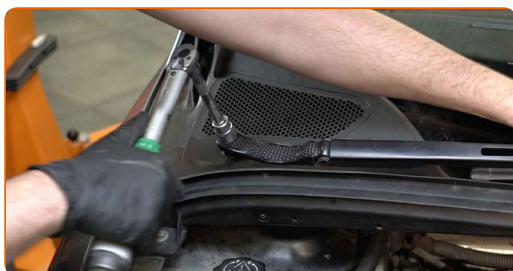


Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_).  
AUTODOC experts recommend:

- Make sure not to mix up the wiper arms on the driver's and passenger's sides.

123

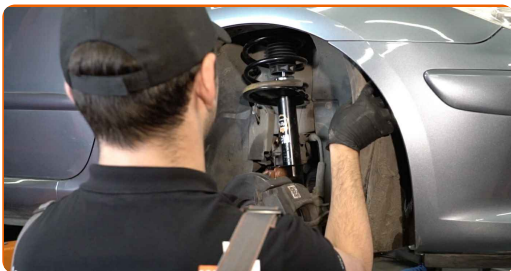
Tighten the fasteners of the wiper arms. Use a drive socket #16. Use a torque wrench. Tighten it to 35 Nm torque.





124

Install the wheel arch cover to its mounting seat. Make sure you hear a click indicating that it is locked in place.



125

Clean the wheel rim mounting seat. Use a wire brush.



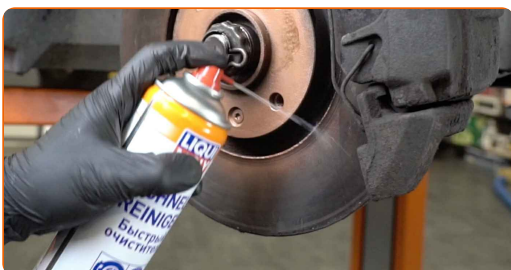
126

Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



127

Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_). After applying the spray, wait a few minutes.

**128** Install the wheel.



**AUTODOC recommends:**

- Important! Hold the wheel while screwing in the fastening bolts. CITROËN C5 II Break (RE\_)

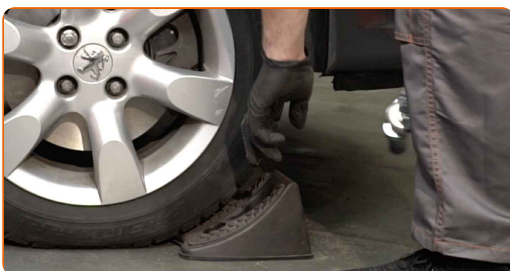
**129** Screw in the wheel bolts. Use wheel impact socket #17.



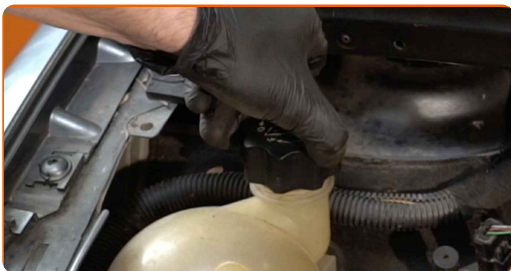
**130** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 100 Nm torque.



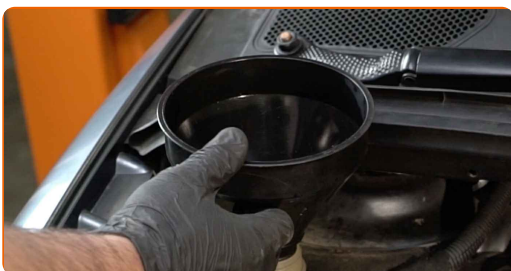
**131** Remove the jacks and chocks.



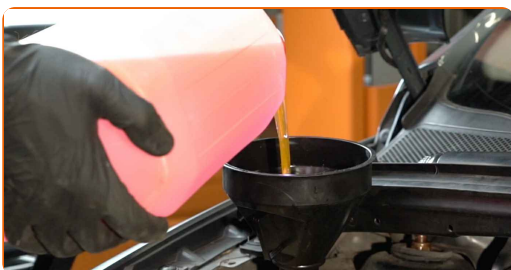
**132** Remove the coolant reservoir cap.



**133** Insert the funnel.



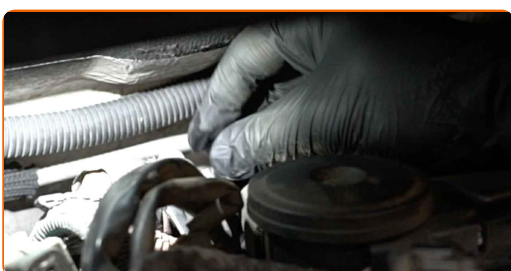
**134** Pour coolant in the coolant reservoir.



Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_). Tip from AUTODOC:

- Only use the coolant recommended by the manufacturer.
- The coolant level should be at the MAX mark.

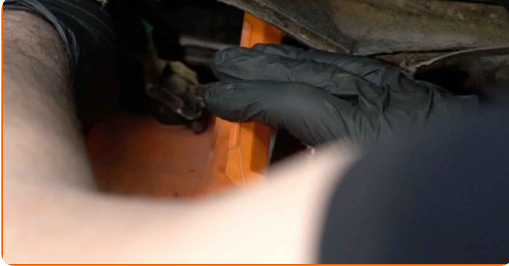
**135** Open the coolant system bleed screw.



**136** Wait until the air goes out of the system.

**137** Close the coolant system bleed screw.

**138** Attach the terminals to the battery.



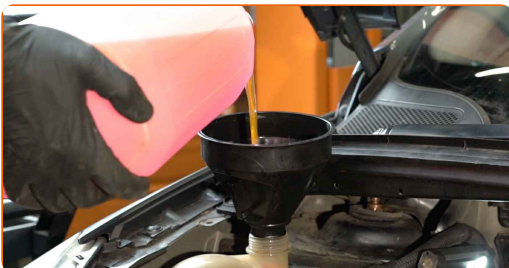
**Replacement: water pump & timing belt kit – CITROËN C5 II Break (RE\_).  
Professionals recommend:**

- Be careful! Do not mix up the positive and the negative terminals of the car battery.

**139** 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.

**140** Shut off the engine.

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



**Please note!**

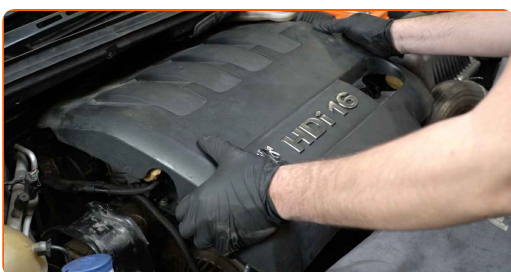
- The coolant level should be at the MAX mark.

**142** Install the coolant reservoir cap.

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



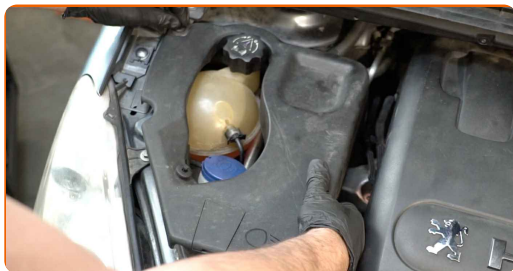
**144** Install the engine cover and secure it. Make sure you hear a click indicating that it is locked in place.



**AUTODOC recommends:**

- Warning! To avoid damaging the fasteners of the car during installation, do not use excessive force. CITROËN C5 II Break (RE\_)
- Make sure the engine cover is properly seated. It should not be displaced with respect to the guiding fasteners and the throttle body air intake hose.
- Be sure to record the mileage at which you replaced the timing belt and water pump kits.

**145** Install the coolant tank protective cover.



**146** Attach the coolant reservoir using its retainers.



**147** Remove the fender protection cover.

**148** Close the hood.

**WELL DONE!** 

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