



How to change rear  
wheel bearing on **Volvo**  
**XC90 1** – replacement  
guide

## VIDEO TUTORIAL

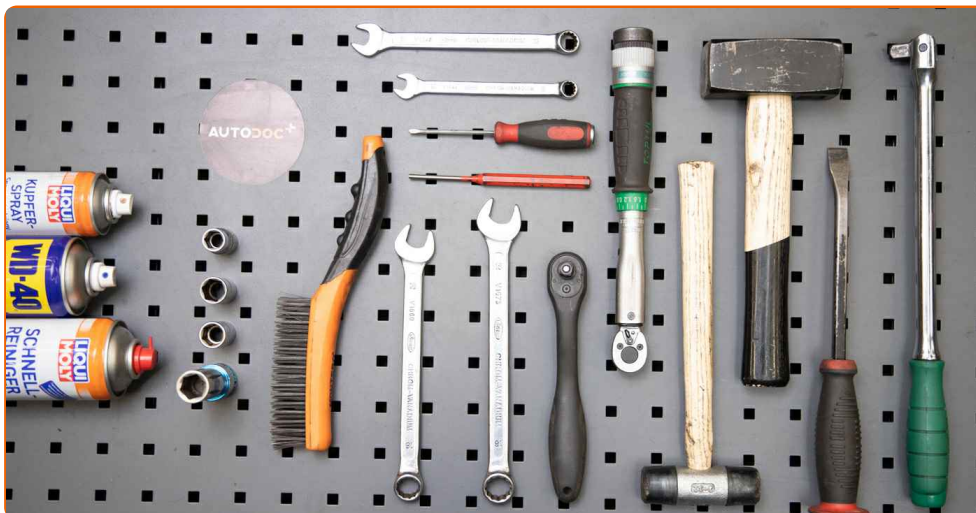
** Important!**

This replacement procedure can be used for:

VOLVO XC90 I (275) 2.4 D5, VOLVO XC90 I (275) 3.2 AWD, VOLVO XC90 I (275) 2.5 T AWD, VOLVO XC90 I (275) 2.9 T6, VOLVO XC90 I (275) 4.4 V8, VOLVO XC90 I (275) 2.4 D3 / D5, VOLVO XC90 I (275) 3.2, VOLVO XC90 I (275) 2.4 D5 AWD, VOLVO XC90 I (275) 2.5, VOLVO XC90 I (275) 2.5 AWD, VOLVO XC90 I (275) D5 AWD

The steps may slightly vary depending on the car design.

**REPLACEMENT: WHEEL BEARING – VOLVO XC90 1.  
TOOLS YOU NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #10
- Combination spanner #13
- Combination spanner #16
- Combination spanner #18
- Drive socket # 13
- Drive socket # 15
- Drive socket # 16
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Pin punch
- Hammer
- Rubber mallet
- Crow bar
- Tap wrench
- Hydraulic transmission jack
- Wheel chock

**BUY TOOLS**

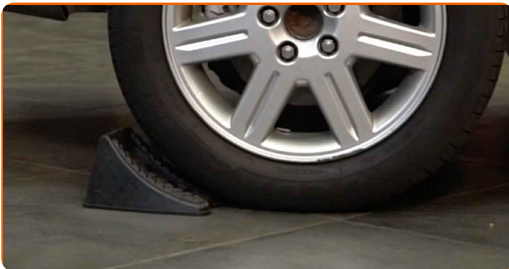
**AUTODOC recommends:**

- Do not re-use the bearing assembly of your Volvo XC90 1 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – Volvo XC90 1 – should be done with the engine switched off.

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

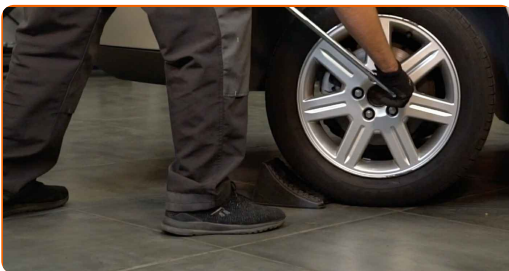
**1**

Secure the wheels with chocks.



**2**

Loosen the wheel mounting bolts. Use wheel impact socket #19.



**3**

Raise the rear of the car and secure on supports.



4

Unscrew the wheel bolts.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
Volvo XC90 1

5

Remove the wheel.



6

Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.

7

Unscrew the caliper bracket fastening. Use a combination spanner #13.



8

Remove the brake caliper together with its bracket.



**Replacement: wheel bearing – Volvo XC90 1. Tip from AUTODOC:**

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

9

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

10

Unscrew the brake disc fastening. Use a combination spanner #10. Use a ratchet wrench.



**11** Remove the brake disc.



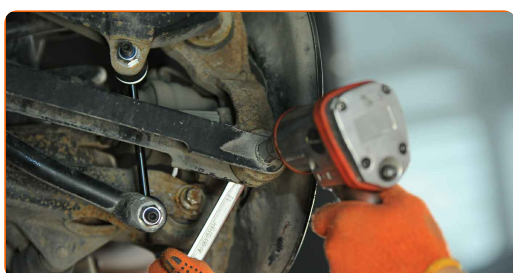
**12** Unscrew the fastener connecting the drive shaft to the wheel hub. Use a drive socket #13. Use a ratchet wrench.



**13** Remove the drive shaft. Use a pin punch. Use a hammer.

**14** Clean the control arm fasteners. Use a wire brush. Use WD-40 spray.

**15** Unscrew the fastener connecting the control arm to the rear knuckle. Use a combination spanner #18. Use a drive socket #15. Use a ratchet wrench.

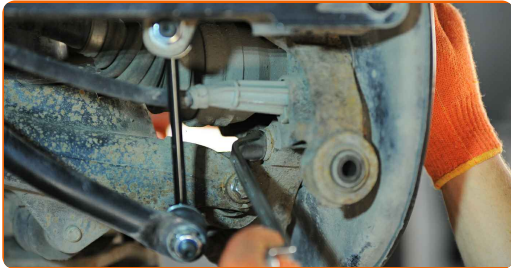


**16** Remove the fastening bolt.

**17** Detach the control arm.

**18**

Unscrew the wheel hub axle nut. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench. Use a tap wrench.



**19**

Remove the hub and the bearing together, since they are a sealed unit. Use a rubber mallet.



**20**

Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.

**21**

Install the new wheel hub with a bearing.

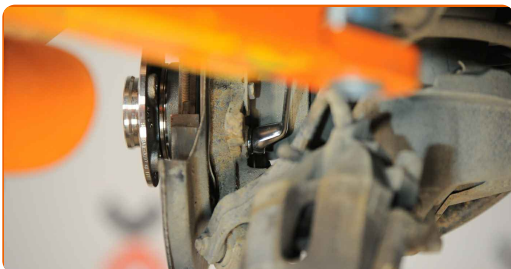


**22**

Mount the drive shaft into the wheel hub.

**23**

Tighten the hub. Use a combination spanner #16. Use a drive socket #16. Use a torque wrench. Tighten it to 45 Nm torque, +60°





Replacement: wheel bearing – Volvo XC90 1. AUTODOC experts recommend:

- The wheel bearing unit must not tilt on the axle pin.
- Important! Be sure to use new fasteners.

**24** Treat the fasteners of the wheel hub bearing. Use copper grease.

**25** Attach the control arm. Use a flat screwdriver.

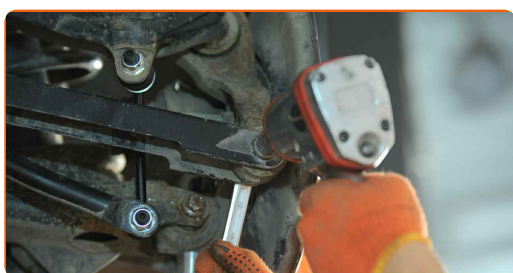
**26** Install the fastening bolt. Use a crowbar. Use a hammer.

**27** Screw in the fasteners connecting the control arm to the rear knuckle.

**28** Prop up the steering knuckle. Use a hydraulic transmission jack.



**29** Tighten the fasteners connecting the control arm to the rear knuckle. Use a combination spanner #18. Use a drive socket #15. Use a torque wrench. Tighten it to 80 Nm torque.



**30** Remove the support from under the steering knuckle.



**AUTODOC recommends:**

- Replacement: wheel bearing – Volvo XC90 1. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

**31** Treat the contacting surface. Use copper grease.

**32** Install the brake disc.



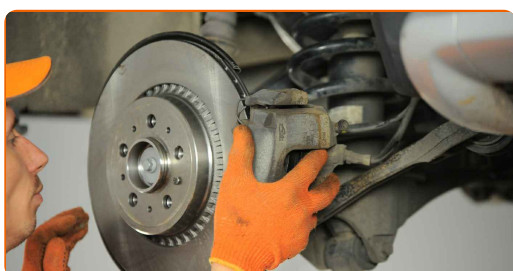
**33** Tighten the brake disc fastening. Use a combination spanner #10. Use a torque wrench. Tighten it to 11 Nm torque.



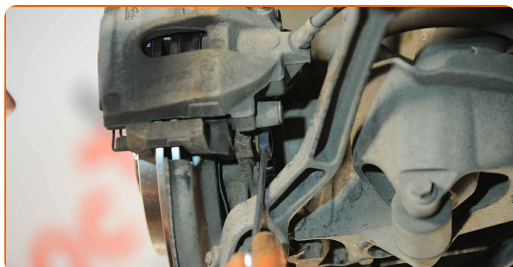
- 34** Tighten the bolt connecting the drive shaft to the wheel hub. Use a drive socket #13. Use a torque wrench. Tighten it to 50 Nm torque.



- 35** Install the brake caliper together with its bracket.



- 36** Tighten the brake caliper bracket. Use a combination spanner #13. Use a torque wrench. Tighten it to 35 Nm torque.+60°

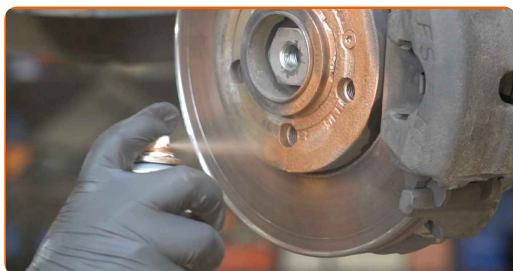


**AUTODOC recommends:**

- Important! Be sure to use new fasteners.

37

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



38

Clean the brake disk surface. Use a brake cleaner.

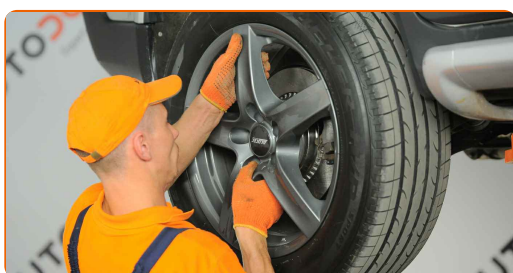


**AUTODOC recommends:**

- Replacement: wheel bearing – Volvo XC90 1. After applying the spray, wait a few minutes.

39

Install the wheel.



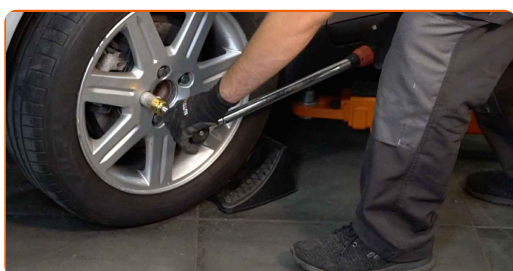
**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Volvo XC90 1

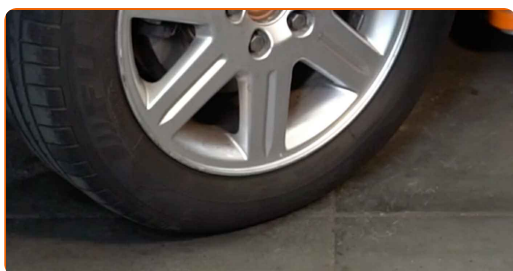
**40** Screw in the wheel bolts. Use wheel impact socket #19.



**41** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #19. Use a torque wrench. Tighten it to 140 nm torque.



**42** Remove the jacks and chocks.



**WELL DONE!** 

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