



How to change front ball
joint 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 XC70 Cross Country (295) 2.4 T XC AWD, VOLVO V70 II (285) 2.3 T5, VOLVO V70 II (285) 2.4 T, VOLVO V70 II (285) 2.5 TDI, VOLVO V70 II (285) 2.4, VOLVO S60 I (384) 2.4, VOLVO S60 I (384) 2.4 T, VOLVO S60 I (384) 4.0 T5, VOLVO V70 II (285) 2.4 D5, VOLVO V70 II (285) 2.4 Bifuel (CNG), VOLVO S60 I (384) 2.4 D5, VOLVO S60 I (384) 2.4 T AWD, VOLVO S60 I (384) 2.0 T, (+ 32)

The steps may slightly vary depending on the car design.

REPLACEMENT: BALL JOINT – VOLVO XC90 1. TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 13
- Drive socket # 21
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Crow bar
- Hammer
- Flat chisel
- Rubber mallet
- Ball joint puller
- Wheel chock

BUY TOOLS

Replacement: ball joint – Volvo XC90 1. Tip:

- The replacement procedure is identical for the left and right ball joints.
- All work should be done with the engine stopped.

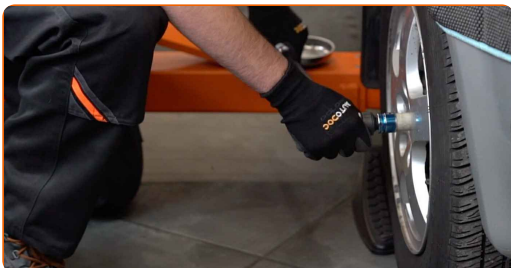
REPLACEMENT: BALL JOINT – VOLVO XC90 1. TAKE THE FOLLOWING STEPS:

1

Secure the wheels with chocks.

**2**

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

**3**

Raise the front 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

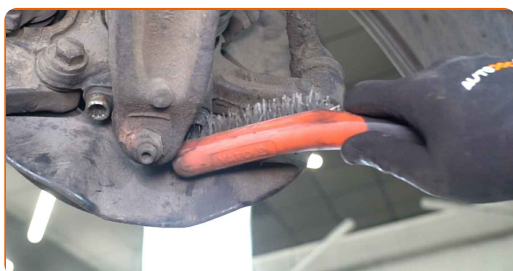
5

Remove the wheel.



6

Clean all joints of the arm. Use a wire brush. Use WD-40 spray.

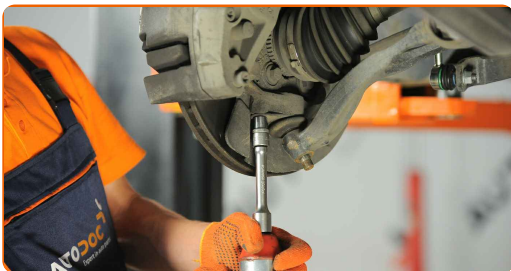


7

Unscrew the fastener connecting the ball joint to the suspension control arm. Use a drive socket #21. Use a ratchet wrench.

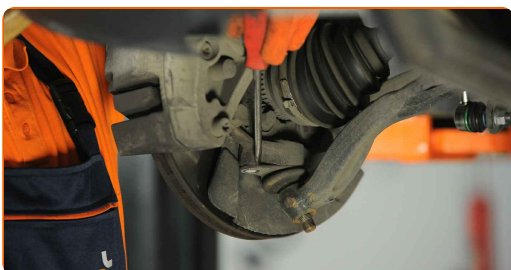


8 Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #13. Use a ratchet wrench.



9 Remove the fastening bolts.

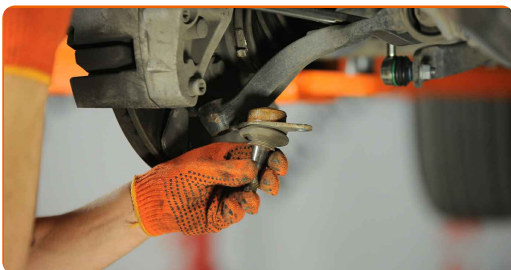
10 Disconnect the ball joint from the steering knuckle. Use a flat metal-working chisel. Use a hammer. Use a crowbar.



11 Disconnect the spherical joint from the arm. Use a ball joint puller.



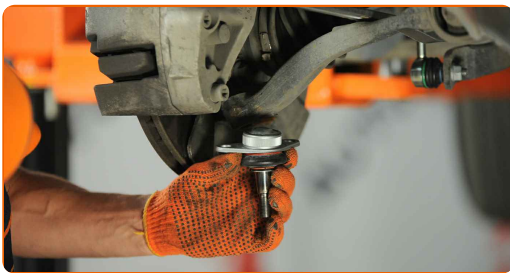
12 Remove the ball joint. Use a crowbar.



13 Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.



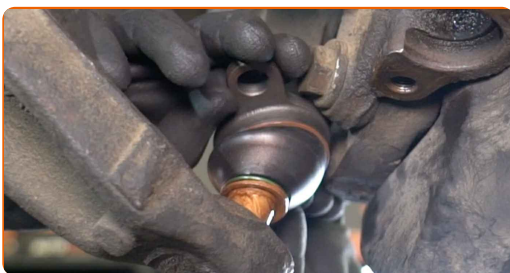
14 Install a new ball joint. Use a crowbar.



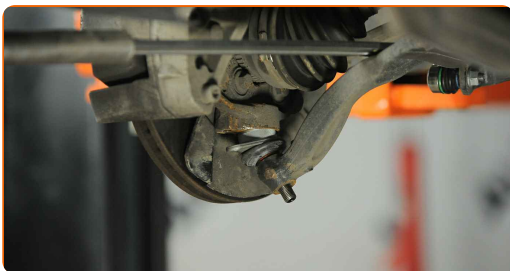
Replacement: ball joint – Volvo XC90 1. Professionals recommend:

- Do not damage the ball joint cover.

15 Attach the ball joint to the control arm. Use a crowbar.

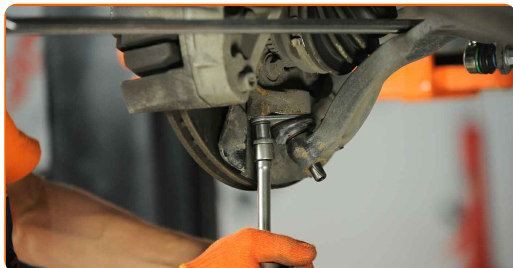


16 Connect the ball joint to the steering knuckle. Use a crowbar. Use a rubber mallet.

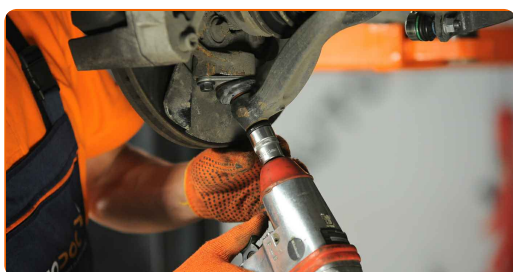


17 Install the fastening bolts.

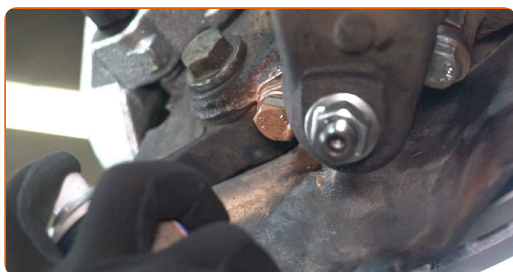
18 Tighten the ball joint fastener. Use a drive socket #13. Use a torque wrench. Tighten it to 50 nm torque.



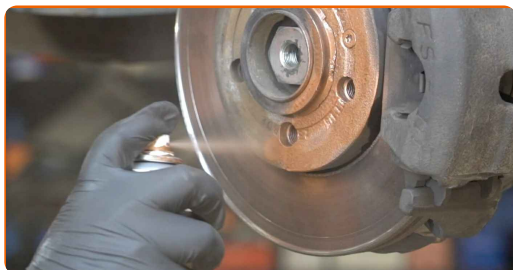
19 Tighten the fasteners connecting the ball joint to the control arm. Use a drive socket #21. Use a torque wrench. Tighten it to 100 nm torque.



20 Treat the fasteners of the ball joint. Use copper grease.



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



22

Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

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

23

Install the wheel.



AUTODOC recommends:

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

24

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

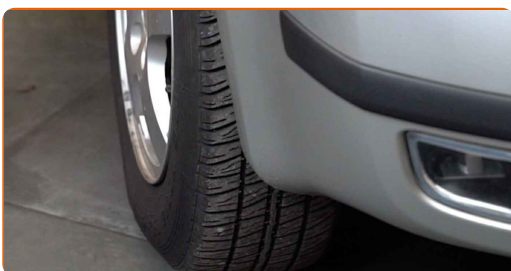


25

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.

**26**

Remove the jacks and chocks.



WELL DONE! 

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