



How to change rear
shock absorbers 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) 3.2

The steps may slightly vary depending on the car design.

REPLACEMENT: SHOCK ABSORBERS – VOLVO XC90 1.
TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 15
- Drive socket # 18
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Hydraulic transmission jack
- Rubber mallet
- Wheel chock

BUY TOOLS

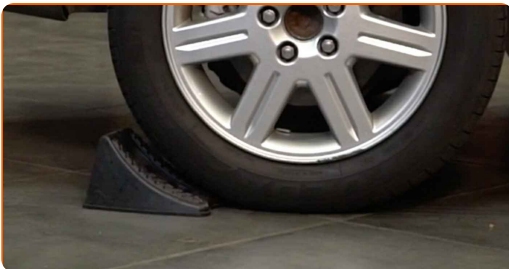
Replacement: shock absorbers – Volvo XC90 1. AUTODOC experts recommend:

- Both shock absorbers of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock absorbers of the rear suspension.
- 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

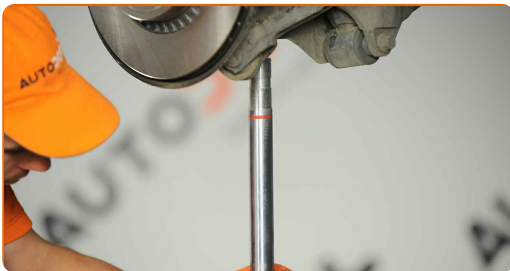
5

Remove the wheel.



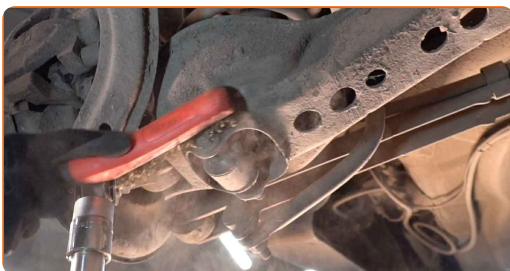
6

Support the arm. Use a hydraulic transmission jack.



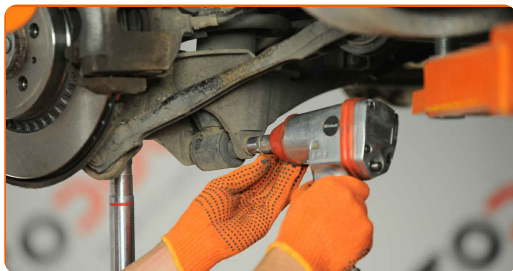
7

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



8

Unscrew the lower fastener of the shock absorber. Use a drive socket #15. Use a ratchet wrench.

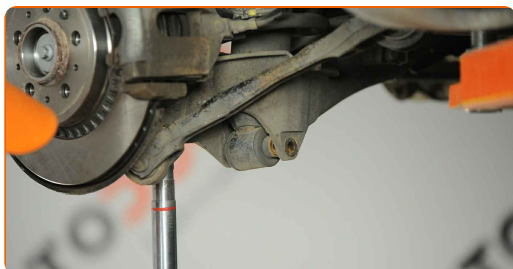


9

Raise the hydraulic transmission jack by 10-15 cm.

10

Remove the fastening bolt.

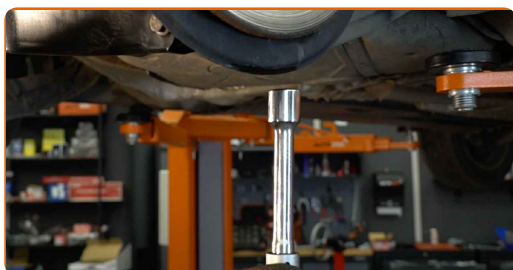


11

Detach the lower part of the shock absorber. Use a flat screwdriver.

12

Remove the support from under the arm.



AUTODOC recommends:

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

13 Lower the car.



14 Open the rear door.

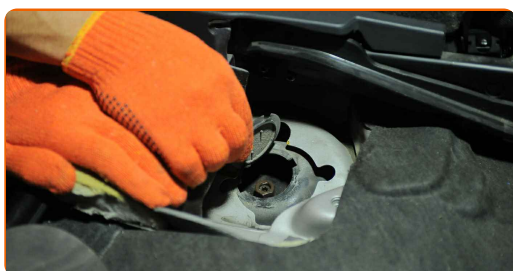


15 Lower the rear seat.

16 Raise the lower lining of the boot.



17 Remove the protective cap of the shock absorber mount.



18 Clean the fasteners of the shock absorber upper mount. Use a wire brush. Use WD-40 spray.

19

Unscrew the upper fastener of the shock absorber. Use a drive socket #18. Use a ratchet wrench.

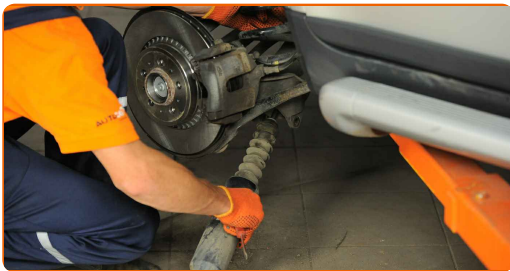


AUTODOC recommends:

- Volvo XC90 1 – To avoid injury, hold the shock absorber while unscrewing the fastening bolts.

20

Remove the shock absorber.



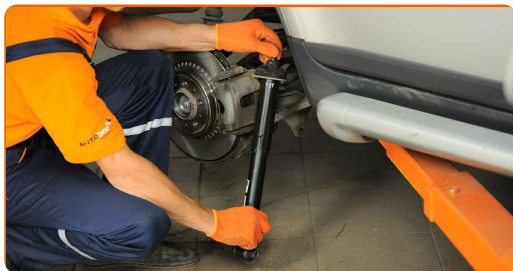
21

Clean the shock absorber mounting seats. Use a wire brush. Use WD-40 spray.

Replacement: shock absorbers – Volvo XC90 1. AUTODOC experts recommend:

- Before installing a new shock absorber you should pump it manually 3-5 times.

- 22** Place the shock absorber in the wheel arch and fasten it.



AUTODOC recommends:

- Volvo XC90 1 – To avoid injury, hold the shock absorber while screwing in the fastening bolts.

- 23** Tighten the top shock absorber fastening. Use a drive socket #18. Use a torque wrench. Tighten it to 60 Nm torque.



- 24** Install the protective cap of the shock absorber mount.



- 25** Put down the lower lining of the boot.

- 26** Raise the rear seat.

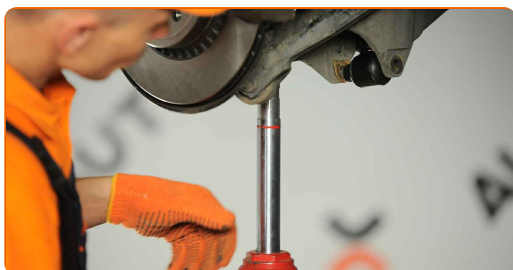
27 Close the rear door.



28 Lift the car using a jack or place it over an inspection pit.

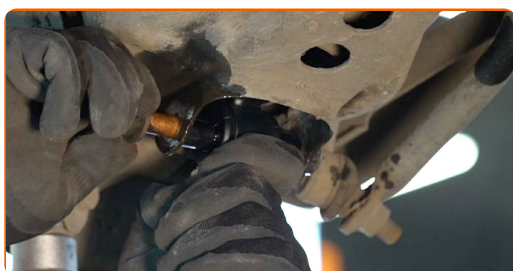


29 Support the arm. Use a hydraulic transmission jack.



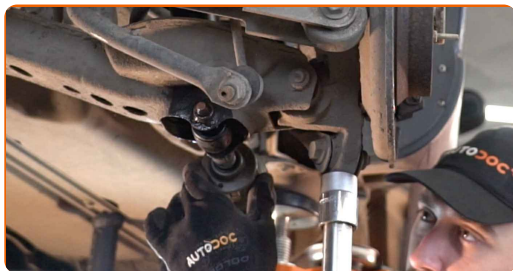
30 Attach the lower part of the shock absorber. Use a flat screwdriver. Use a rubber mallet.

31 Install the fastening bolt.



32

Screw in the lower fastener of the shock absorber. Use a drive socket #15. Use a ratchet wrench.



33

Raise the hydraulic transmission jack by 10-15 cm.

34

Tighten the lower fastener of the shock absorber. Use a drive socket #15. Use a torque wrench. Tighten it to 80 Nm torque.



35

Remove the support from under the arm.



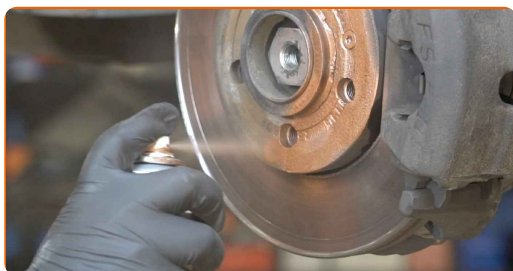
AUTODOC recommends:

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

36 Treat the shock absorber fasteners. Use copper grease.



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: shock absorbers – 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

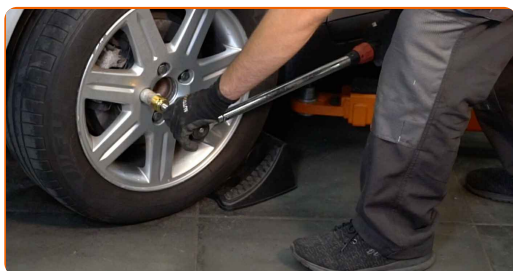
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Screw in the wheel bolts. Use wheel impact socket #19.



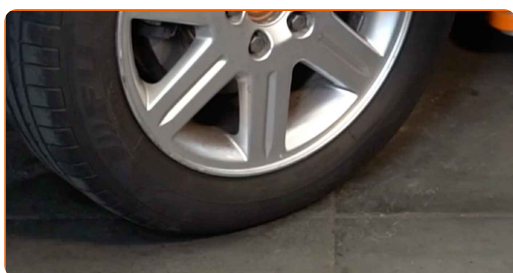
41

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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