



How to change front
suspension strut on **Audi**
A4 B7 Avant –
replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:

AUDI A4 Saloon (8E2, B6) 1.8 T, AUDI A4 Saloon (8E2, B6) 2.0, AUDI A4 Saloon (8E2, B6) 1.8 T quattro, AUDI A4 Saloon (8E2, B6) 3.0, AUDI A4 Saloon (8E2, B6) 3.0 quattro, AUDI A4 Saloon (8E2, B6) 1.9 TDI, AUDI A4 Saloon (8E2, B6) 2.5 TDI quattro, AUDI A4 Saloon (8E2, B6) 1.6, AUDI A4 Saloon (8E2, B6) 2.5 TDI, AUDI A4 Avant (8E5, B6) 1.6, AUDI A4 Avant (8E5, B6) 2.0, AUDI A4 Avant (8E5, B6) 1.8 T, AUDI A4 Avant (8E5, B6) 3.0, AUDI A4 Avant (8E5, B6) 1.9 TDI, AUDI A4 Saloon (8E2, B6) 2.4, (+ 57)

The steps may slightly vary depending on the car design.

**REPLACEMENT: SUSPENSION STRUT – AUDI A4 B7
AVANT. TOOLS YOU NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 16
- Drive socket # 18
- Combination spanner #16
- Combination spanner #18
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Hammer
- Pin punch
- Flat chisel
- Rubber mallet
- Flat Screwdriver
- Hydraulic transmission jack
- Hydraulic strut spring compressor
- Fender cover
- Wheel chock

BUY TOOLS

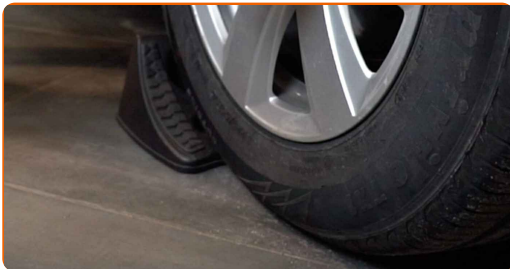
Replacement: suspension strut – Audi A4 B7 Avant. AUTODOC recommends:

- Both shock struts of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the front suspension.
- Please note: all work on the car – Audi A4 B7 Avant – 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 #17.



3

Raise the front of the car and secure on supports.



4 Unscrew the wheel bolts.



AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Audi A4 B7 Avant

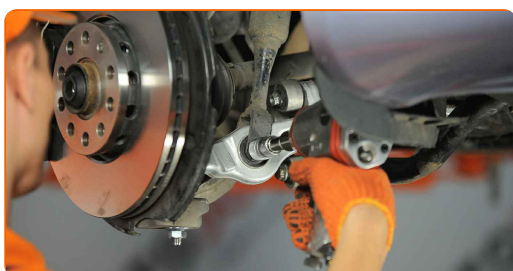
5 Remove the wheel.



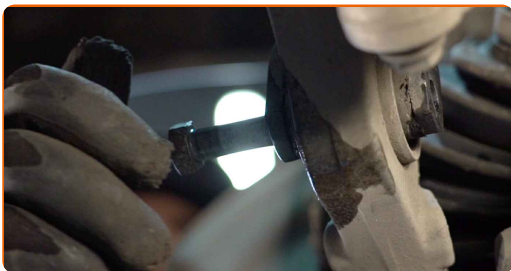
6 Clean the shock strut fasteners. Use a wire brush. Use WD-40 spray.



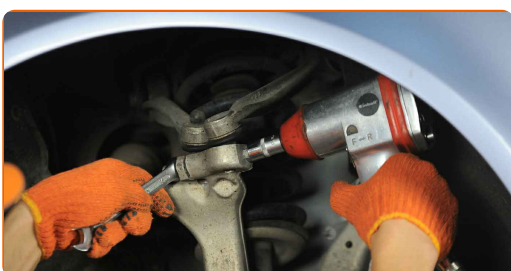
7 Unscrew the lower fastener of the shock absorber strut. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



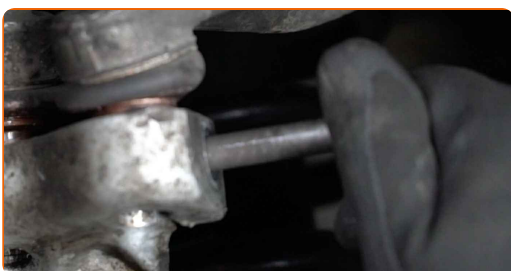
8 Remove the fastening bolt.



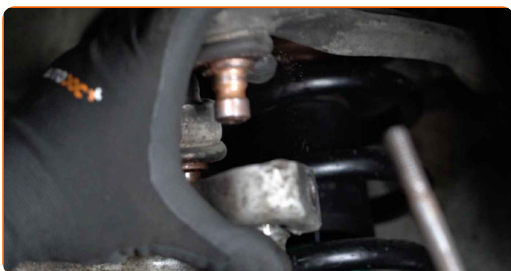
9 Unscrew the upper arm fastenings. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.



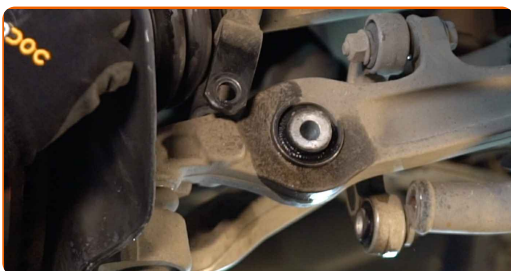
10 Remove the fastening bolt.



11 Detach the upper control arm from the steering knuckle. Use a flat metal-working chisel. Use a hammer.



12 Detach the bottom part of the shock strut.



13 Lower the car.



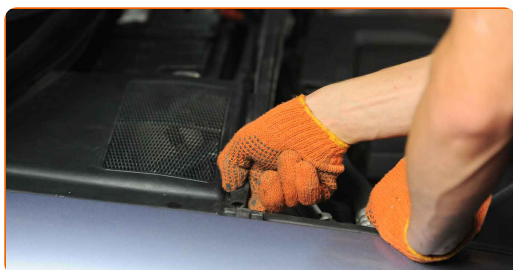
14 Open the bonnet.



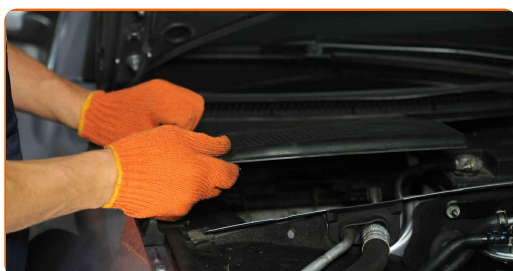
15 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



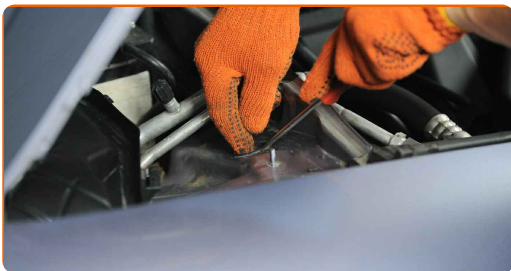
16 Remove the cowl grille seal.



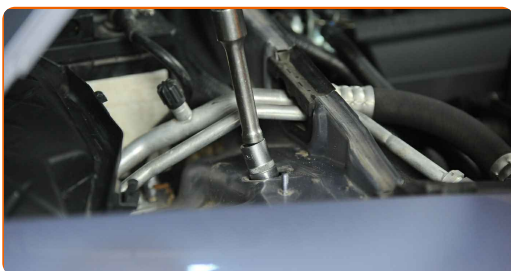
17 Remove the wiper cowl grille located on the right side.



18 Remove the protective cap of the shock absorber mount. Use a flat screwdriver.



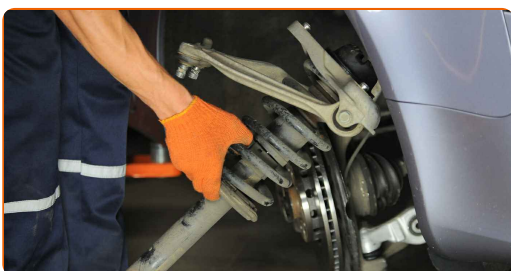
19 Unscrew the upper fasteners of the shock strut. Use a drive socket #16. Use a ratchet wrench.



AUTODOC recommends:

- Audi A4 B7 Avant – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

20 Remove the suspension strut.



21 Set the shock absorber strut on the spring compressor tool.



Replacement: suspension strut – Audi A4 B7 Avant. AUTODOC experts recommend:

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

22

Compress the spring.



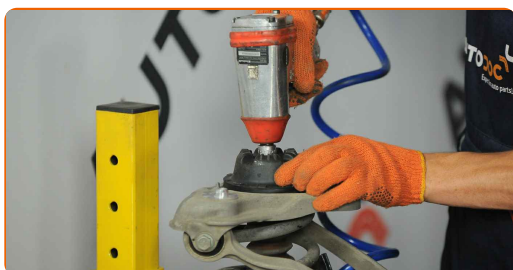
23

Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



24

Remove the strut piston rod nut. Use a drive socket #18. Use a ratchet wrench.



25

Release the coil spring.

26

Remove the upper shock absorber mount assembled with the control arms.

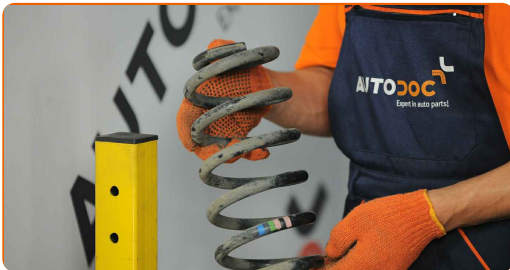


AUTODOC recommends:

- Replacement: suspension strut – Audi A4 B7 Avant. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

27

Remove the spring.



28

Remove the shock absorber dust cap and the bump stop.

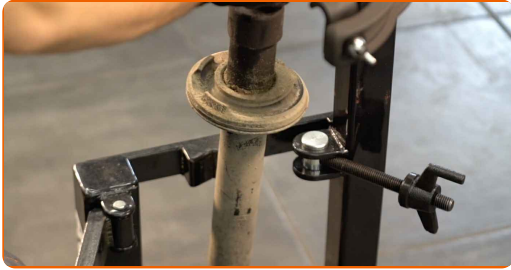
29

Remove the rubber spring spacer.



30

Remove the old shock absorber from the hydraulic coil spring compressor.



31

Remove the lower spring seat from the shock absorber. Use a rubber mallet.



Replacement: suspension strut – Audi A4 B7 Avant. Tip from AUTODOC experts:

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

32

Install the lower spring seat onto the shock absorber. Use a rubber mallet.



33

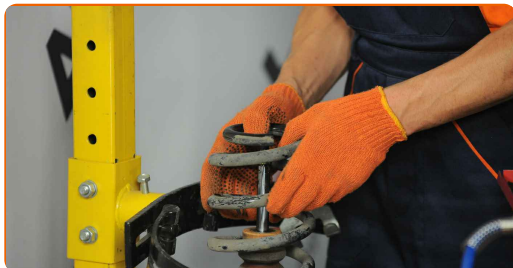
Install the rubber spring spacer.

34

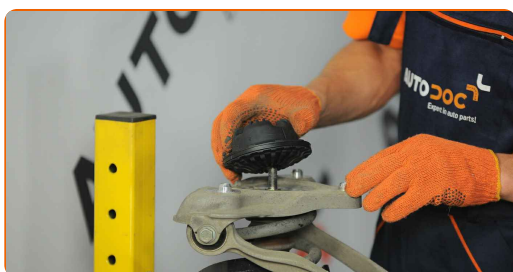
Install the new shock absorber on the hydraulic coil spring compressor.

35 Install the dust sleeve and the bump stop on the new shock absorber.

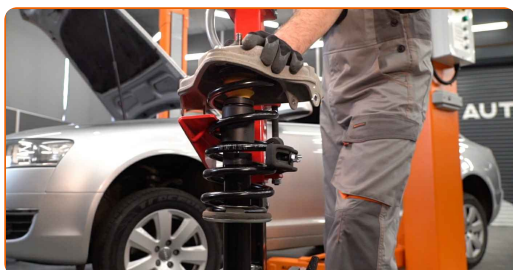
36 Install the spring on the shock absorber.



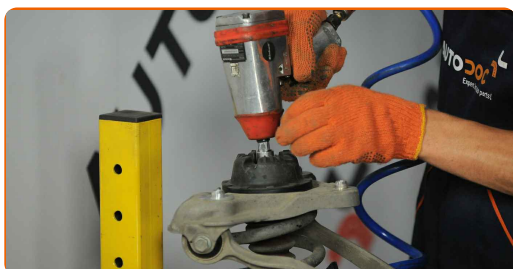
37 Install the upper shock absorber mount assembled with the control arms.



38 Compress the spring.



39 Tighten the shock strut piston rod nut. Use a drive socket #18. Use a ratchet wrench. Use a torque wrench. Tighten it to 50 Nm torque.



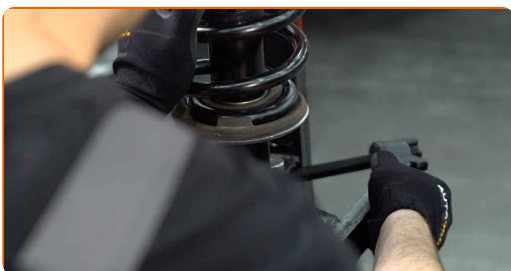
Replacement: suspension strut – Audi A4 B7 Avant. Tip:

- Check to make sure the spring is positioned correctly. Avoid its misalignment.

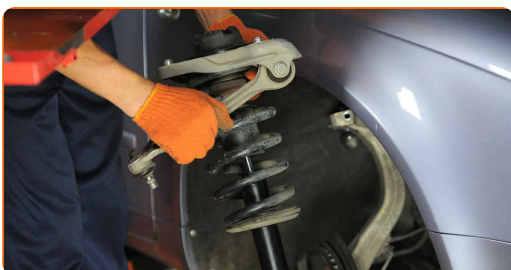
40 Decompress the spring.



41 Remove the assembled shock strut.



42 Install the shock strut into the wheel arch.



43 Secure the upper fasteners of the shock strut.

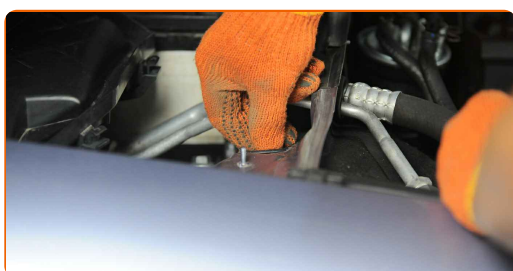
AUTODOC recommends:

- Important! Hold the suspension strut while screwing in the fastening bolts. Audi A4 B7 Avant

- 44 Tighten the upper fasteners of the shock strut. Use a drive socket #16. Use a torque wrench. Tighten it to 75 Nm torque.



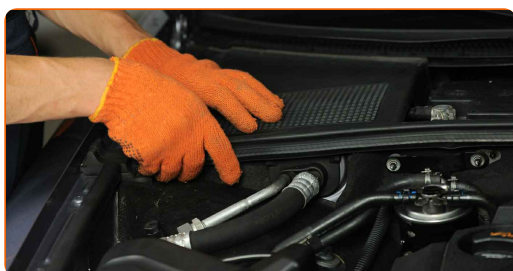
- 45 Install the protective cap of the shock absorber mount.



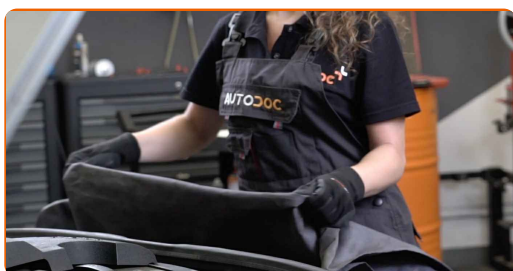
- 46 Install and secure the wiper cowl grille located on the right side.



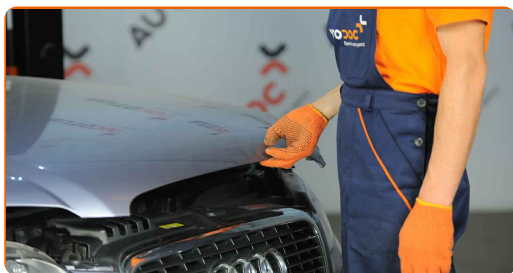
- 47 Install the cowl grille seal.



- 48 Remove the fender protection cover.



49 Close the hood.

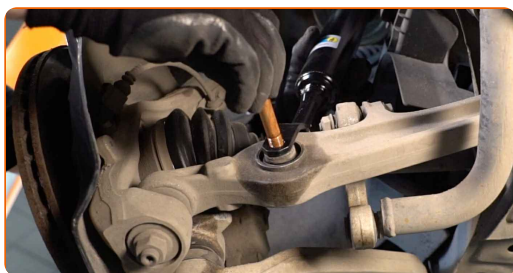


50 Raise the front of the car and secure on supports.

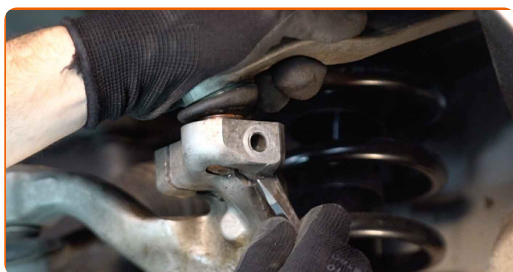


51 Attach the bottom part of the shock strut.

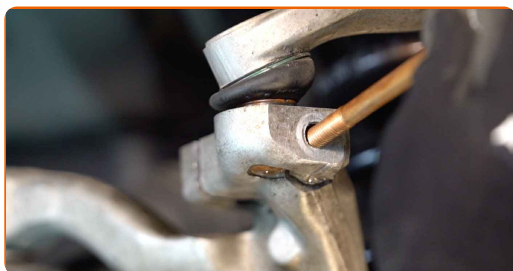
52 Install the fastening bolt.



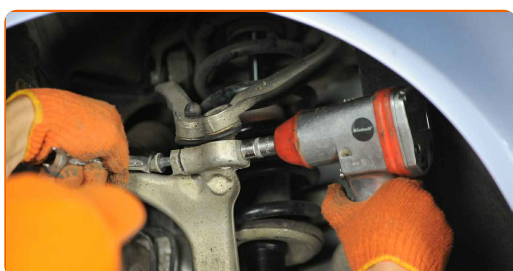
53 Attach the upper control arm to the steering knuckle. Use a rubber mallet. Use a flat metal-working chisel. Use a hammer.



54 Install the fastening bolt. Use a hammer. Use a pin punch.



55 Tighten the upper arm fastenings. Use a combination spanner #16. Use a drive socket #16. Use a torque wrench. Tighten it to 40 Nm torque.



56 Prop up the steering knuckle. Use a hydraulic transmission jack.



57 Tighten the lower fastening of the shock absorber. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 90 Nm torque.



58 Remove the support from under the steering knuckle.

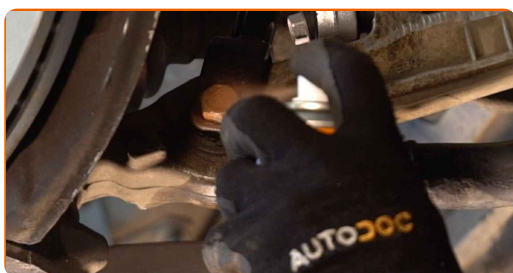


AUTODOC recommends:

- Replacement: suspension strut – Audi A4 B7 Avant. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

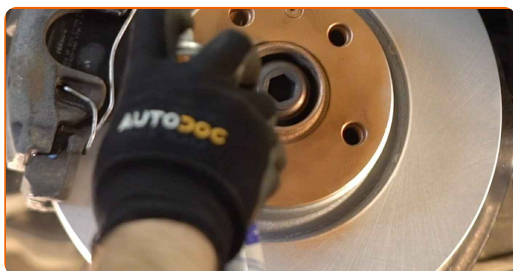
59

Treat the shock strut fasteners. Treat the fasteners connecting the control arm to the steering knuckle. Use copper grease.



60

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



61

Clean the brake disc surface. Use a brake cleaner.



Replacement: suspension strut – Audi A4 B7 Avant. Professionals recommend:

- After applying the spray, wait a few minutes.

62 Install the wheel.



AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. Audi A4 B7 Avant

63 Screw in the wheel bolts. Use wheel impact socket #17.

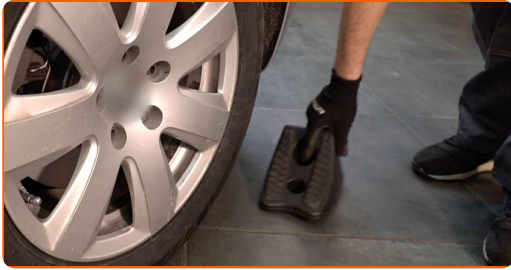


64 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 nm torque.



65

Remove the jacks and chocks.



WELL DONE! 

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