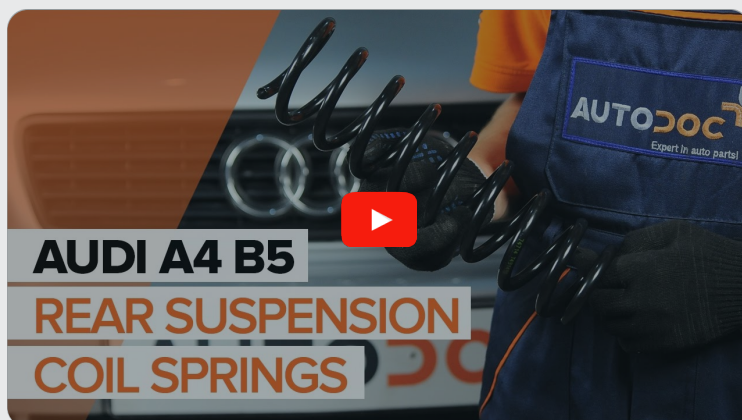




How to change rear coil
springs on **Audi A4 B5**
Avant – replacement
guide

VIDEO TUTORIAL

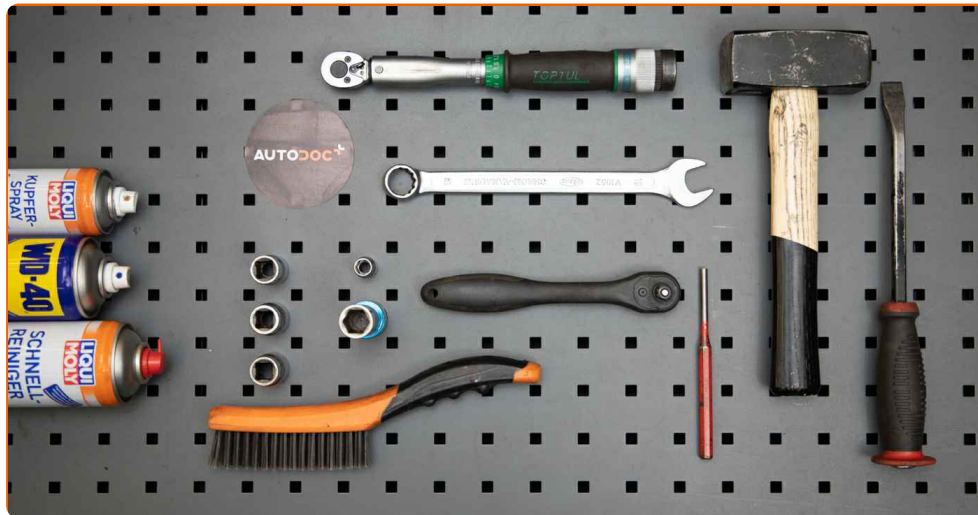
** Important!**

This replacement procedure can be used for:

AUDI A4 Avant (8D5, B5) 1.6, AUDI A4 Avant (8D5, B5) 1.8, AUDI A4 Avant (8D5, B5) 2.6, AUDI A4 Avant (8D5, B5) 2.8, AUDI A4 Avant (8D5, B5) 1.9 TDI, AUDI A4 Avant (8D5, B5) 2.4, AUDI A4 Avant (8D5, B5) 2.5 TDI, AUDI A4 Avant (8D5, B5) 1.8 T

The steps may slightly vary depending on the car design.

**REPLACEMENT: COIL SPRINGS – AUDI A4 B5 AVANT.
LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #19
- Drive socket # 10
- Drive socket # 17
- Drive socket # 18
- Drive socket # 19
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Hydraulic strut spring compressor
- Hammer
- Pin punch
- Crow bar
- Hydraulic transmission jack
- Wheel chock

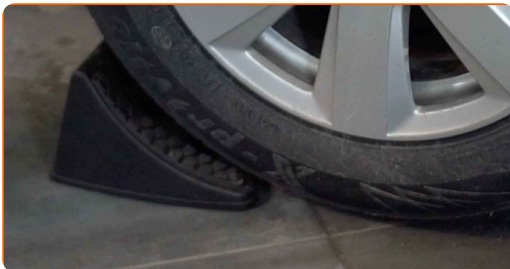
BUY TOOLS

Replacement: coil springs – Audi A4 B5 Avant. AUTODOC recommends:

- Both coil springs of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the rear suspension.
- All work should be done with the engine stopped.

REPLACEMENT: COIL SPRINGS – AUDI A4 B5 AVANT. USE THE FOLLOWING PROCEDURE:

1 Secure the wheels with chocks.



2 Loosen the wheel mounting bolts. Use wheel impact socket #17.



3 Raise the rear of the car and secure on supports.



4 Unscrew the wheel bolts.



Replacement: coil springs – Audi A4 B5 Avant. Tip:

- To avoid injury, hold up the wheel when unscrewing the bolts.

5 Remove the wheel.



6 Unscrew the ABS cable holder. Use a drive socket #10. Use a ratchet wrench.



7 Remove the ABS wiring harness bracket.

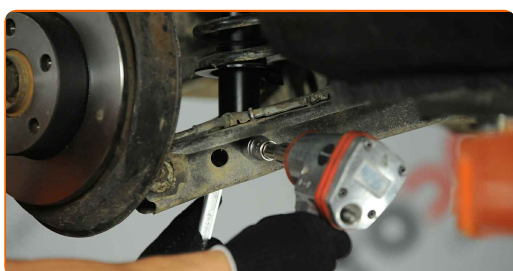
8

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



9

Unscrew the lower fastener of the shock absorber strut. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



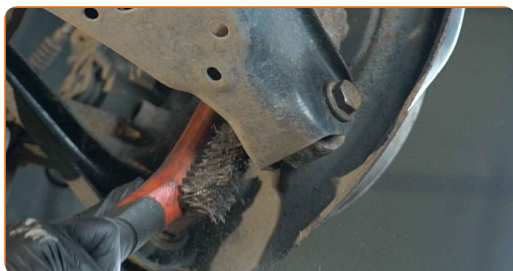
10

Remove the fastening bolt.

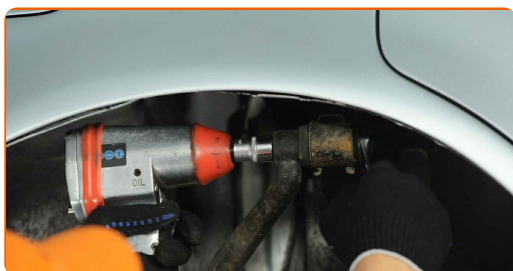


11

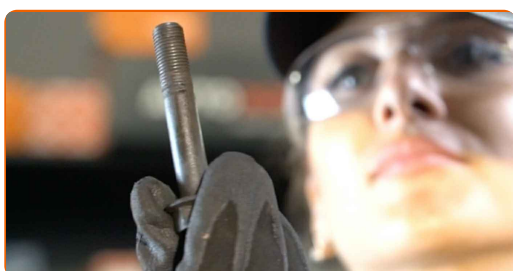
Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



- 12** Unscrew the upper arm fastenings. Use a combination spanner #19. Use a drive socket #18. Use a ratchet wrench.



- 13** Remove the fastening bolt.



- 14** Detach the suspension arm from the rear knuckle.

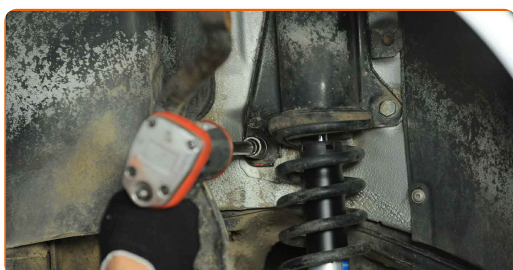
- 15** Detach the bottom part of the shock strut. Use a crowbar.

- 16** Unscrew the fastener connecting the control arm to the rear knuckle. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



- 17** Remove the fastening bolt. Use a pin punch. Use a hammer.

- 18** Unscrew the upper fasteners of the shock strut. Use a drive socket #17. Use a ratchet wrench.



19

Detach the lower control arm. Use a crowbar.

20

Pull down the suspension control arm. Use a crowbar.

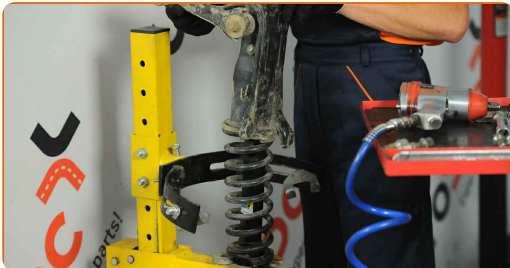
21

Remove the suspension strut.



22

Set the shock absorber strut on the spring compressor tool.



Replacement: coil springs – Audi A4 B5 Avant. Tip from AUTODOC:

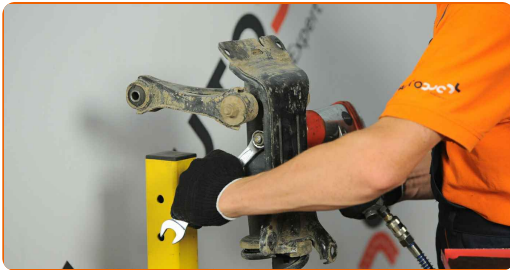
- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

23 Compress the spring.



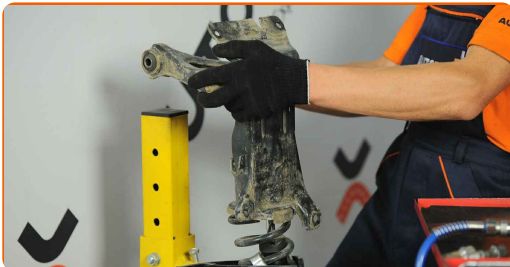
24 Treat the shock strut rod. Use a wire brush. Use WD-40 spray.

25 Remove the strut piston rod nut. Use a combination spanner #19. Use a drive socket #18. Use a ratchet wrench.

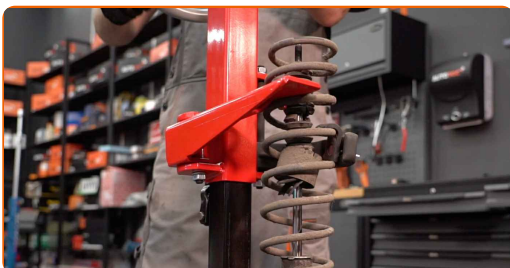


26 Remove the fastening bolt.

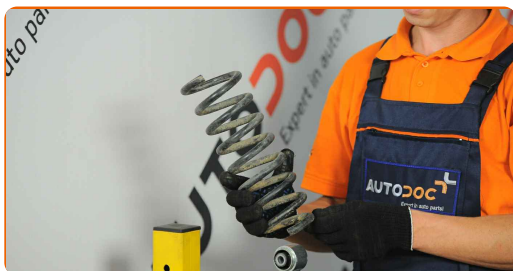
27 Remove the upper shock absorber mount assembled with the control arms.



28 Release the coil spring.



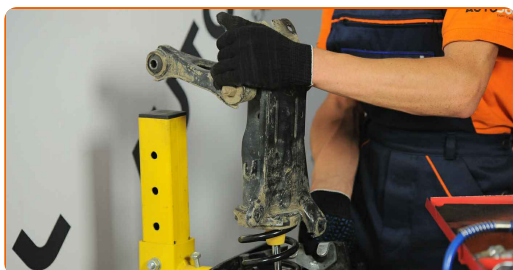
29 Remove the spring.



30 Install the spring on the shock absorber.



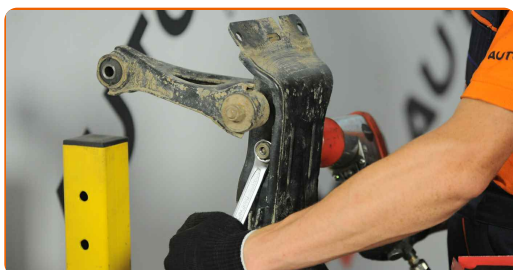
31 Install the upper shock absorber mount assembled with the control arms.



32 Compress the spring.

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

34 Tighten the shock strut piston rod nut. Use a combination spanner #19. Use a drive socket #18. Use a torque wrench. Tighten it to 70 Nm torque. +90°

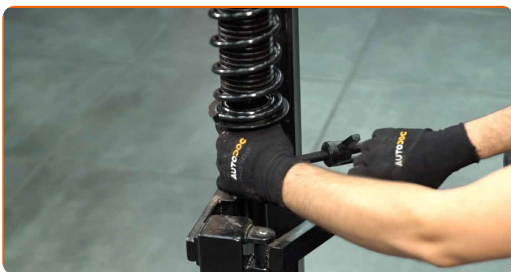


Replacement: coil springs – Audi A4 B5 Avant. Tip from AUTODOC experts:

- Important! Be sure to use new fasteners.
- Check to make sure the spring is positioned correctly. Avoid its misalignment.

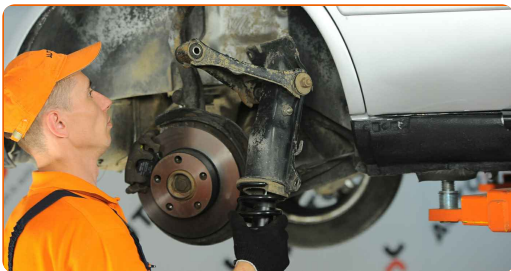
35 Decompress the spring.

36 Remove the assembled shock strut.



37 Pull down the suspension control arm.

38 Install the shock strut into the wheel arch.



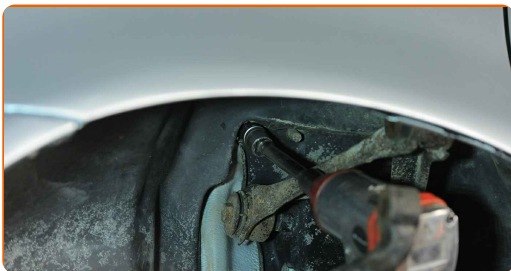
39 Attach the bottom part of the shock strut.

40.1 Tighten the upper fasteners of the shock strut.



40.2

Use a crowbar. Use a drive socket #17. Use a torque wrench. Tighten it to 65 Nm torque.



41

Attach the suspension arm to the rear knuckle.

42

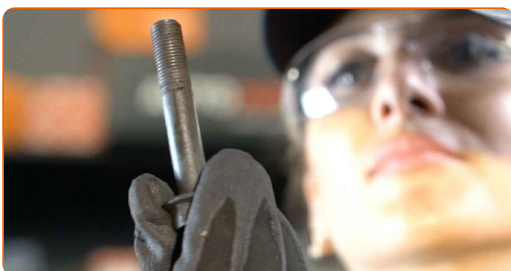
Install the fastening bolt.

43

Attach the lower control arm. Use a crowbar.

44

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

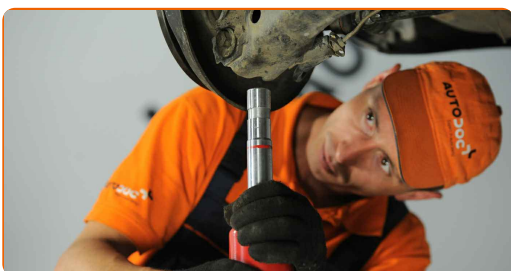


45

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

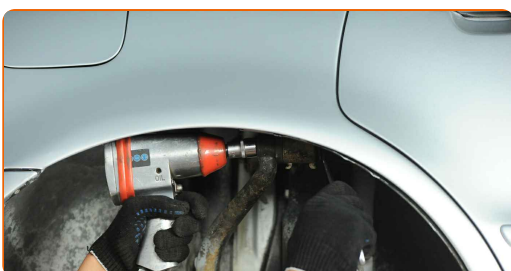
46

Support the arm. Use a hydraulic transmission jack.



47

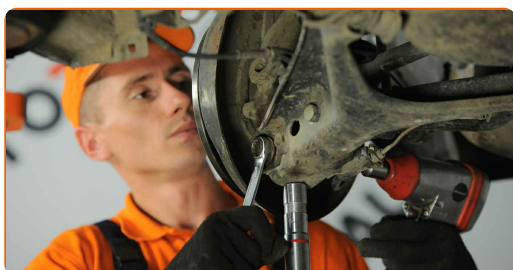
Tighten the upper arm fastenings. Use a combination spanner #19. Use a drive socket #18. Use a torque wrench. Tighten it to 85 Nm torque.



- 48** Tighten the lower fastener of the shock absorber. Use a combination spanner #19. Use a drive socket #19. Use a torque wrench. Tighten it to 80 Nm torque.

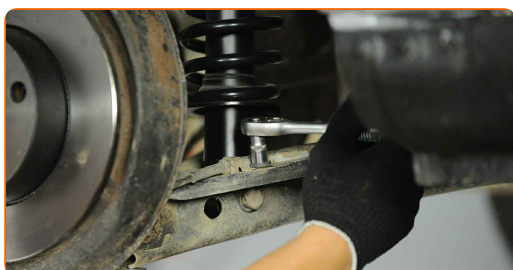


- 49** Tighten the fasteners connecting the control arm to the rear knuckle. Use a combination spanner #19. Use a drive socket #19. Use a torque wrench. Tighten it to 80 Nm torque.



- 50** Install the ABS wiring harness bracket.

- 51** Tighten the ABS cable holder. Use a drive socket #10. Use a ratchet wrench.



- 52** Remove the support from under the arm.



AUTODOC recommends:

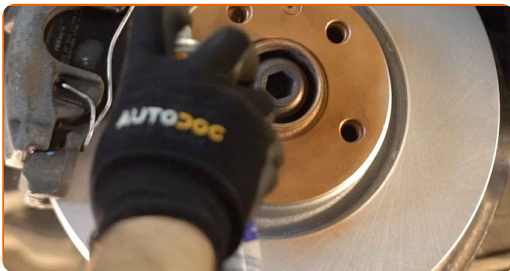
- Replacement: coil springs – Audi A4 B5 Avant. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

53

Treat the shock strut fasteners. Treat all joints of the arm. Use copper grease.

54

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



55

Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: coil springs – Audi A4 B5 Avant. After applying the spray, wait a few minutes.

56 Install the wheel.



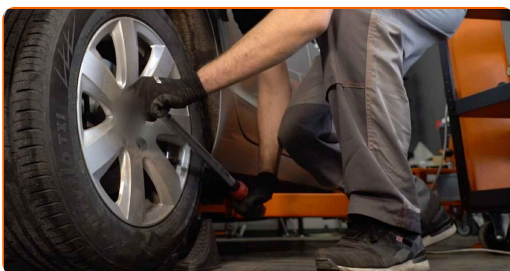
AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. Audi A4 B5 Avant

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

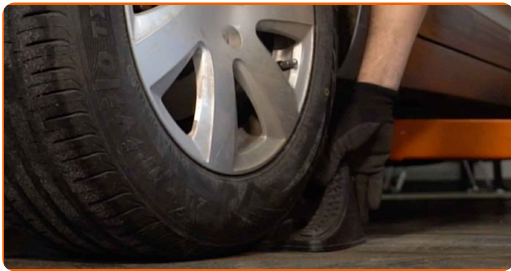


58 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 nm torque.



59

Remove the jacks and chocks.



WELL DONE! 

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