VIDEO TUTORIAL

ⓘ Important!

This replacement procedure can be used for:
AUDI A4 B5 (8D2) 1.8 T, AUDI A4 B5 (8D2) 1.8 T quattro, AUDI A4 B5 Avant (8D5) 1.8 T, AUDI A4 B5 Avant (8D5) 1.8 T quattro, AUDI A6 C5 (4B2) 1.8 T, AUDI A6 C5 (4B2) 1.8 T quattro, AUDI A6 C5 Avant (4B5) 1.8 T, AUDI A6 C5 Avant (4B5) 1.8 T quattro

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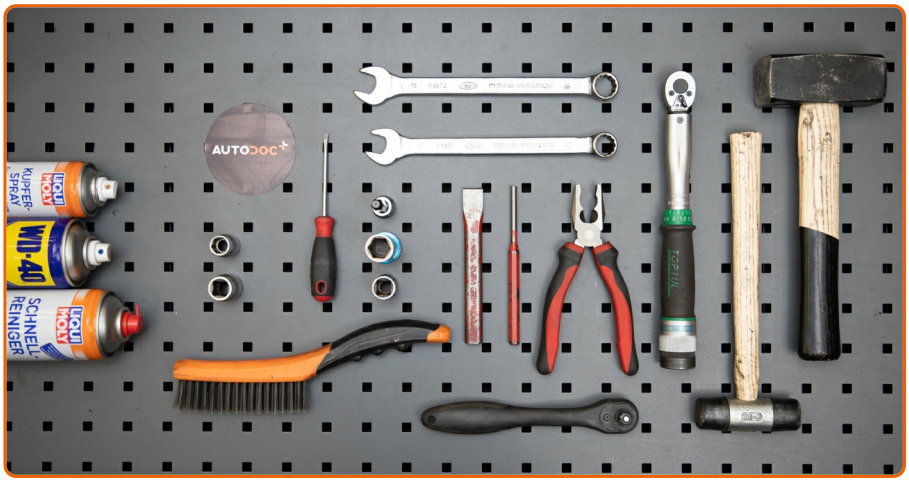
The steps may slightly vary depending on the car design.

REPLACEMENT: SUSPENSION STRUT – AUDI A4 B5 AVANT. TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- HEX bit No.H6.
- Drive socket # 13
- Drive socket # 17
- Drive socket # 18
- Combination spanner #17
- Combination spanner #18
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Hammer
- Pin punch
- Flat chisel
- Rubber mallet
- Flat Screwdriver
- Pliers
- Hydraulic transmission jack
- Hydraulic strut spring compressor
- Fender cover
- Wheel chock

Replacement: suspension strut – Audi A4 B5 Avant. Professionals recommend:

- 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.
- All work should be done with the engine stopped.

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.

Replacement: suspension strut – Audi A4 B5 Avant. AUTODOC recommends:

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

5

Remove the wheel.

6

Clean the fastening bolt that connects the shock absorber fork with the lower control arm. Use a wire brush. Use WD-40 spray.

7

Unscrew the fastening bolt that connects the shock absorber fork with the lower control arm. 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 #17. Use a drive socket #17. Use a ratchet wrench.

10

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

11

Remove the control arms. 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 protective caps out of the shock absorber mounting fastener. Use a flat screwdriver. Use pliers.

17

Unscrew the upper fasteners of the shock strut. Use a drive socket #13. Use a ratchet wrench.

AUTODOC recommends:

- Important! Hold the suspension strut while unscrewing the fastening bolts. Audi A4 B5 Avant

18

Remove the suspension strut.

19

Set the shock absorber strut on the spring compressor tool.

Replacement: suspension strut – Audi A4 B5 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.

20

Compress the spring.

21

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

22

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

23

Remove the top strut mount.

24

Release the coil spring.

25

Remove the spring.

26

Remove the shock absorber dust cap and the bump stop.

AUTODOC recommends:

- Replacement: suspension strut – Audi A4 B5 Avant. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

27

Remove the rubber spring spacer.

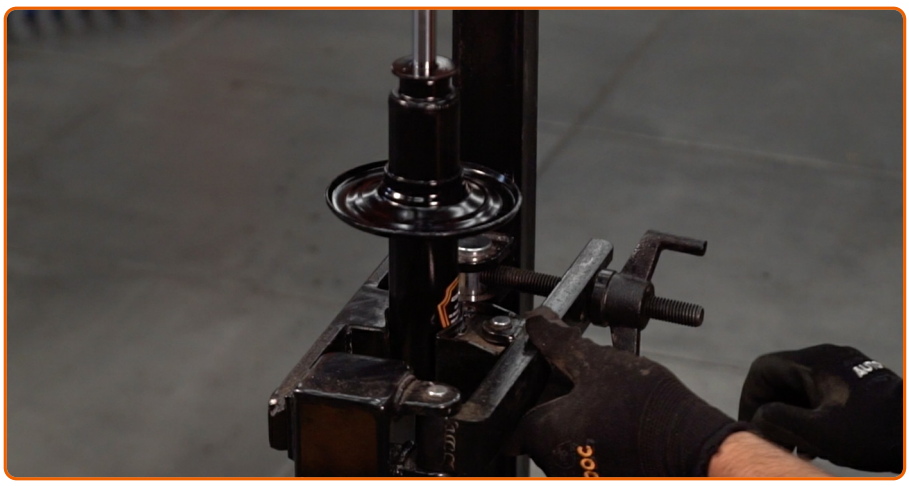
28

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

Replacement: suspension strut – Audi A4 B5 Avant. Tip from AUTODOC experts:

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

29



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

30

Install the rubber spring spacer.

31

Install the spring on the shock absorber.

32

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

33

Compress the spring.

34

Install the upper strut mount and the strut mount bearing.

35

Tighten the shock strut piston rod nut. Use a drive socket #18. Use HEX No.H6. Use a ratchet wrench. Use a torque wrench. Tighten it to 60 Nm torque.

Replacement: suspension strut – Audi A4 B5 Avant. Tip from AUTODOC:

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

36

Decompress the spring.

37

Remove the assembled shock strut.

38

Install the shock strut into the wheel arch.

39

Secure the upper fasteners of the shock strut.

Replacement: suspension strut – Audi A4 B5 Avant. AUTODOC experts recommend:

- To avoid injuries, hold the shock strut when screwing the fastening bolts in.

40

Tighten the upper fasteners of the shock strut. Use a drive socket #13. Use a torque wrench. Tighten it to 37 Nm torque.

41

Put the protective caps onto the shock absorber mounting fastener. Use a flat screwdriver.

42

Remove the fender protection cover.

43

Close the hood.

44

Raise the front of the car and secure on supports.

45

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

46

Attach the bottom part of the shock strut.

47

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

48

Install the control arms Use a rubber mallet.

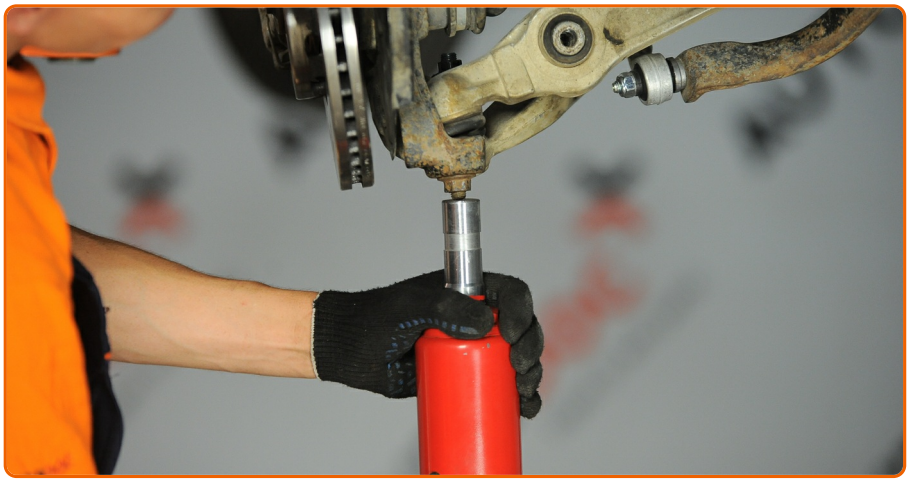
49

Install the fastening bolt.

50

Tighten the upper arm fastenings. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 80 Nm torque.

51



Raise the hydraulic transmission jack by 10-15 cm.

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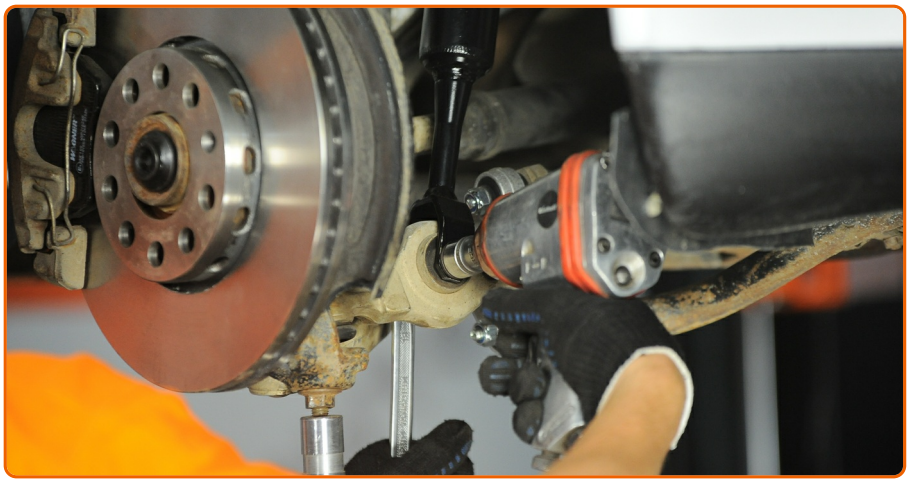

Tighten the fastening bolt that connects the shock absorber fork to the lower control arm. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 80 Nm torque.

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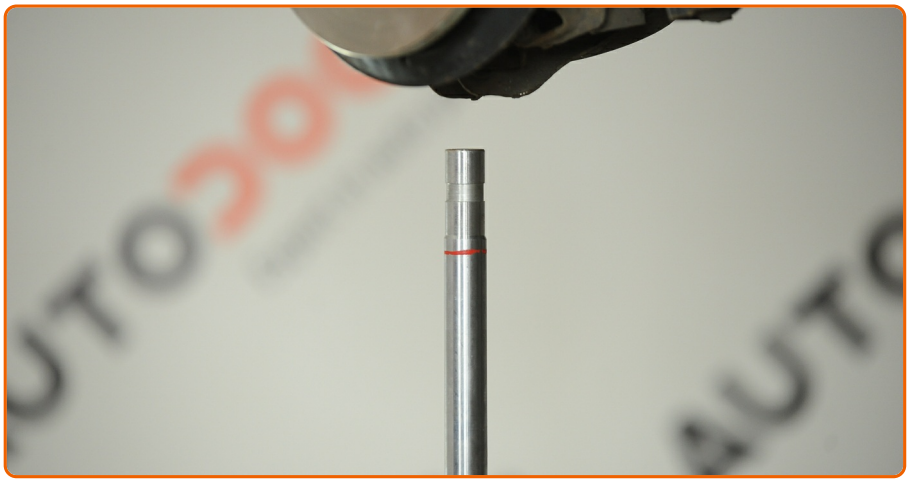

Remove the support from under the steering knuckle.

AUTODOC recommends:

- Audi A4 B5 Avant – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

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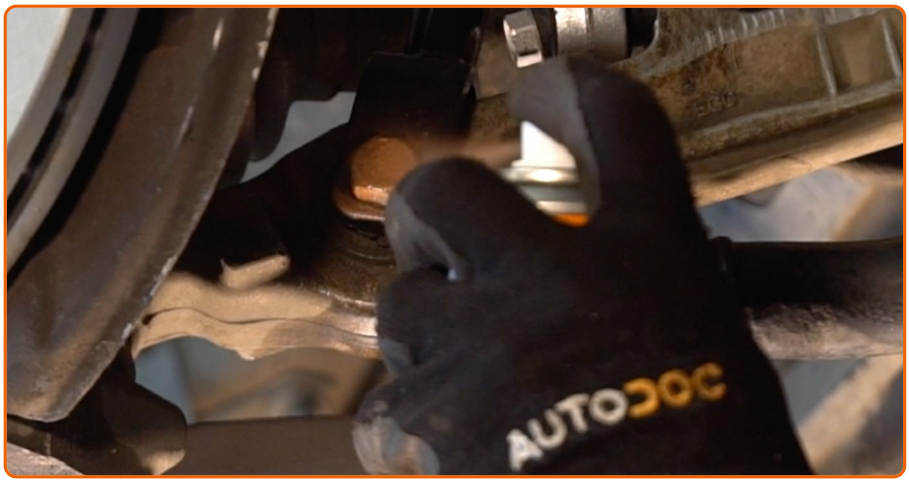
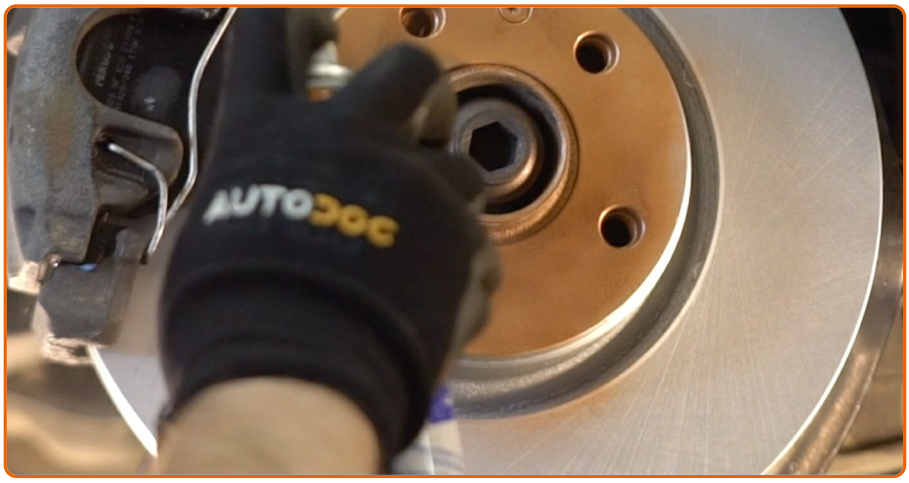


Treat the shock strut fasteners. Use copper grease.

55



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

56

Clean the brake disk surface. Use a brake cleaner.

Replacement: suspension strut – Audi A4 B5 Avant. Tip:

- After applying the spray, wait a few minutes.

57

Install the wheel.

AUTODOC recommends:

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

58

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

59

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.

60

Remove the jacks and chocks.

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YES NO

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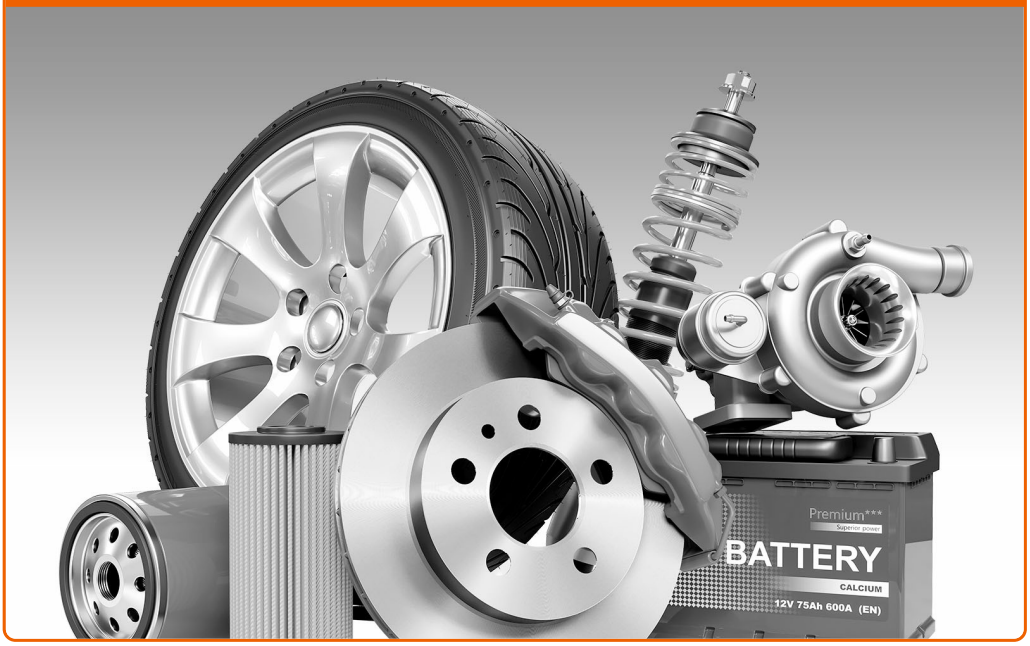

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