AUTODOC CLUB

How to change front coil springs on **Audi A4 B7** – replacement guide

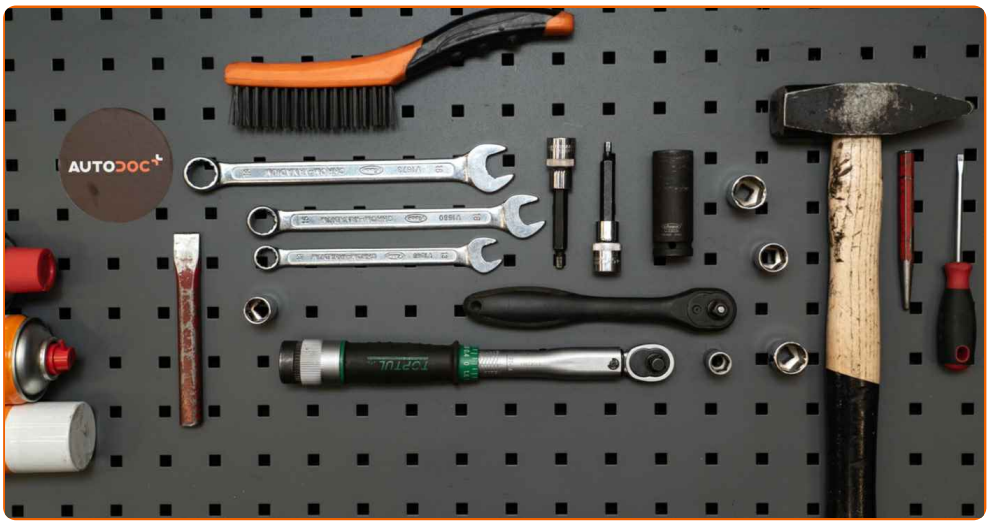
VIDEO TUTORIAL

Important!

This replacement procedure can be used for:
AUDI A4 B6 Saloon (8E2) 1.8 T, AUDI A4 B6 Saloon (8E2) 2.0, AUDI A4 B6 Saloon (8E2) 1.8 T quattro, AUDI A4 B6 Saloon (8E2) 3.0, AUDI A4 B6 Saloon (8E2) 3.0 quattro, AUDI A4 B6 Saloon (8E2) 1.9 TDI, AUDI A4 B6 Saloon (8E2) 2.5 TDI, AUDI A4 B6 Avant (8E5) 2.0, AUDI A4 B6 Avant (8E5) 1.8 T, AUDI A4 B6 Avant (8E5) 3.0, AUDI A4 B6 Avant (8E5) 1.9 TDI, AUDI A4 B6 Saloon (8E2) 2.4, AUDI A4 B6 Avant (8E5) 2.4, AUDI A4 B6 Avant (8E5) 2.5 TDI, AUDI A4 B6 Avant (8E5) 1.8 T quattro, (+ 23)

The steps may slightly vary depending on the car design.

REPLACEMENT: COIL SPRINGS – AUDI A4 B7. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #13
- Combination spanner #16
- Combination spanner #18
- Drive socket # 13
- Drive socket # 15
- Drive socket # 16
- Drive socket # 18
- Drive socket # 19
- HEX bit No.H5.
- HEX bit No.H6.
- Wheel impact socket #17
- Ratchet wrench
- Hammer
- Pin punch
- Flat chisel
- Flat Screwdriver
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

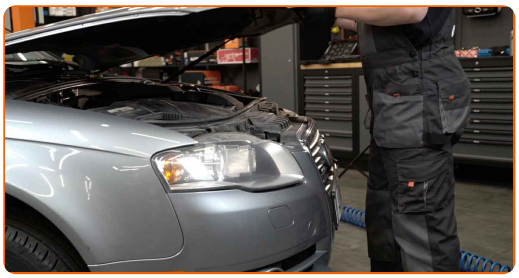
BUY TOOLS

Replacement: coil springs – Audi A4 B7. AUTODOC recommends:

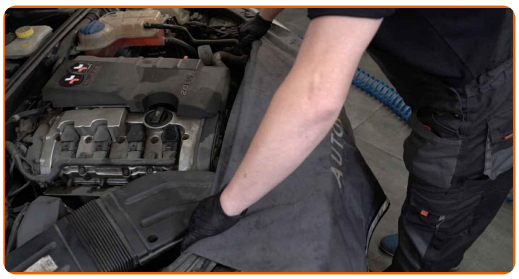
- Both coil springs of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the front suspension.
- All work should be done with the engine stopped.

REPLACEMENT: COIL SPRINGS – AUDI A4 B7. RECOMMENDED SEQUENCE OF STEPS:

1 Open the bonnet.

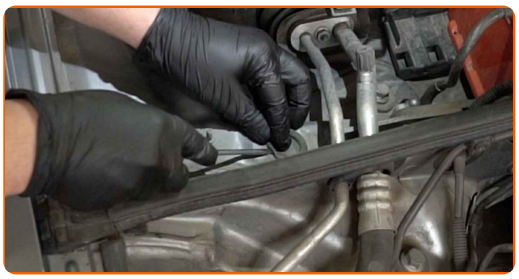


2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

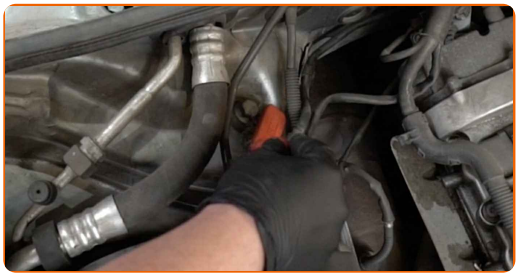


3 Raise up and remove the cowl grille.

4 Remove the shock strut mount cap. Use a flat screwdriver.



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

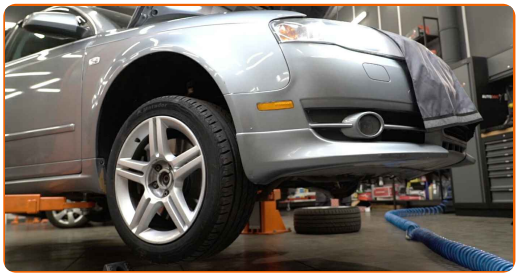


6 Loosen the upper fastener of the shock strut mount. Use a drive socket #16. Use a ratchet wrench.

7 Secure the wheels with chocks.

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

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



10 Unscrew the wheel bolts.

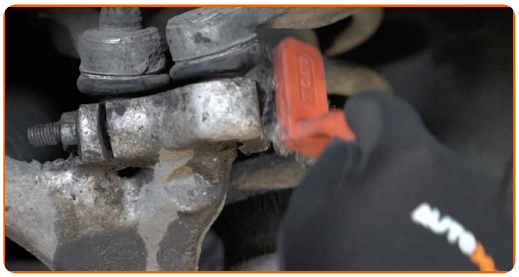
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.

Audi A4 B7

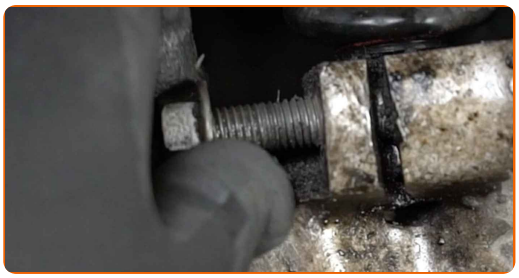
11 Remove the wheel.

12 Clean all joints of the arm. Clean the fastener connecting the tie rod end to the steering knuckle. Clean the shock strut fasteners. Use a wire brush. Use WD-40 spray.



13 Unscrew the upper arm fastenings. Use a combination spanner #16.

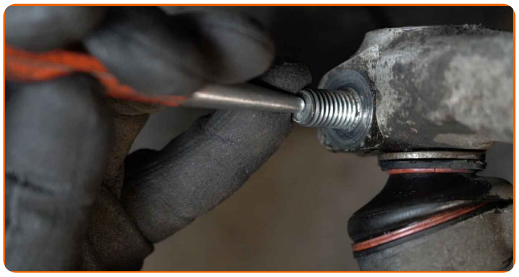
14 Remove the fastening bolt.



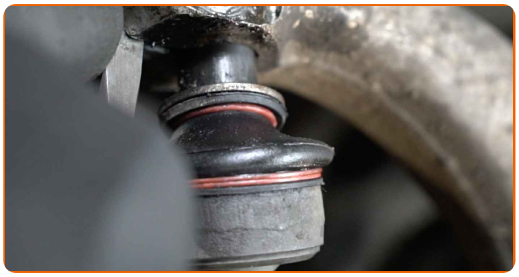
15 Loosen the tie rod end fastening bolt. Use a combination spanner #13.

16 Unscrew the end fastening nut to the steering knuckle. Use a drive socket #15. Use a ratchet wrench.

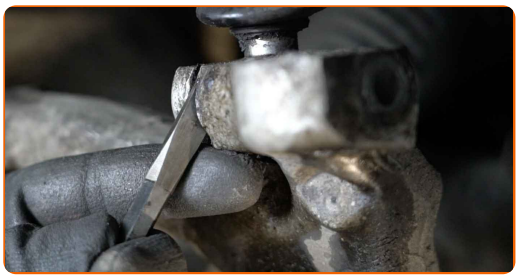
17 Remove the fastening bolt. Use a pin punch. Use a hammer.



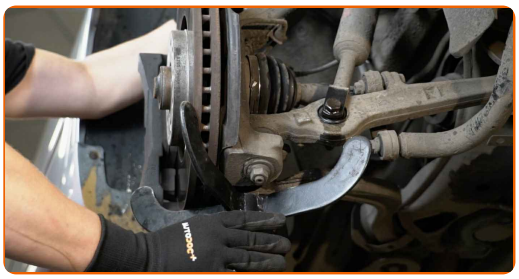
18 Disconnect the tie rod end from the steering knuckle. Use a flat metal-working chisel. Use a hammer.



19 Remove the control arms. Use a flat metal-working chisel. Use a hammer.

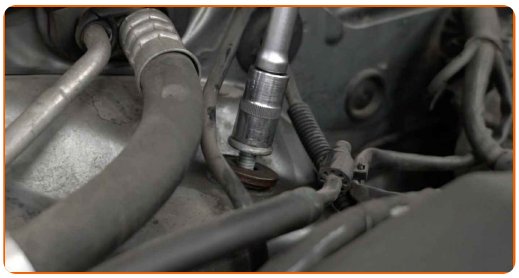


20 Prop up the steering knuckle. Use a hydraulic transmission jack.



21 Unscrew the fastener connecting the shock strut to the suspension control arm. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.

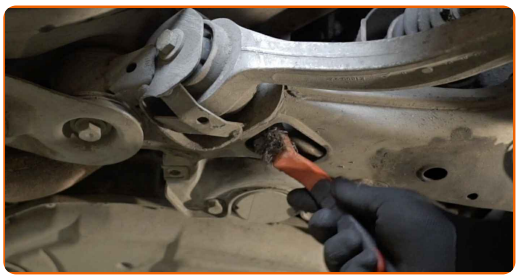
22 Unscrew the top fastening of the shock strut mount. Use a drive socket #16. Use a ratchet wrench.



Replacement: coil springs – Audi A4 B7. AUTODOC experts recommend:

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

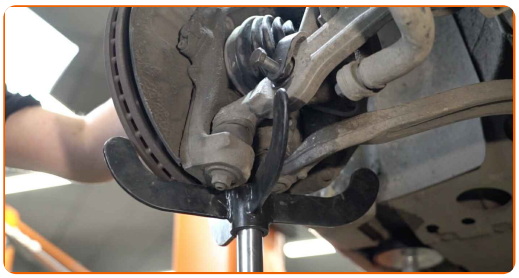
23 Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



24 Unscrew the rear fastener connecting the control arm to the subframe. Use a combination spanner #18 (2 pieces).

25 Unscrew the front arm fastener. Use a combination spanner #18 (2 pieces).

26 Lower the hydraulic transmission jack by 10-15 cm.

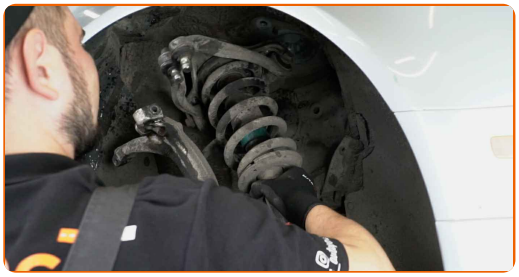


AUTODOC recommends:

- Audi A4 B7 – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

27 Remove the fastening bolt.

28 Remove the suspension strut.

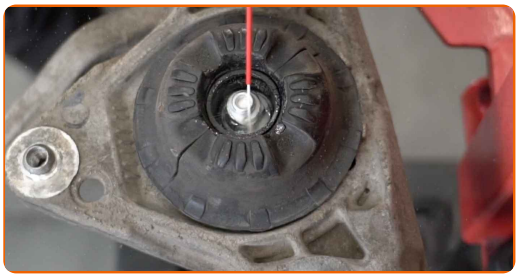


29 Set the shock absorber strut on the spring compressor tool.

Replacement: coil springs – Audi A4 B7. 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.

30 Treat the shock strut rod. Use WD-40 spray.



31 Compress the spring.

32 Remove the strut piston rod nut. Use a drive socket #18. Use HEX No.H5. Use a ratchet wrench.

33 Remove the top strut mount. Use a crowbar.

34 Release the coil spring.

35 Remove the spring.

36 Remove the shock absorber dust cap and the bump stop.

Replacement: coil springs – Audi A4 B7. Tip:

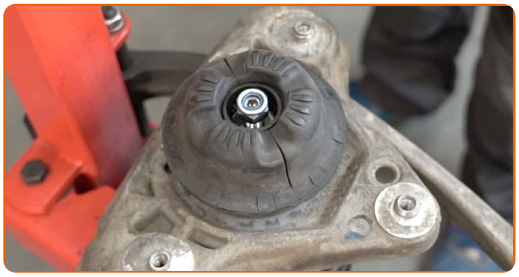
- Thoroughly examine the shock absorber mount, dust boot, bump stop. Replace them if necessary.

37 Install the spring on the shock absorber.

38 Compress the spring.

39 Install the mount, the boot and the bump stop on the shock absorber.

40 Install the upper strut mount and the strut mount bearing.



41 Tighten the shock strut piston rod nut. Use a drive socket #19. Use HEX No.H6. Use a torque wrench. Tighten it to 50 Nm torque.

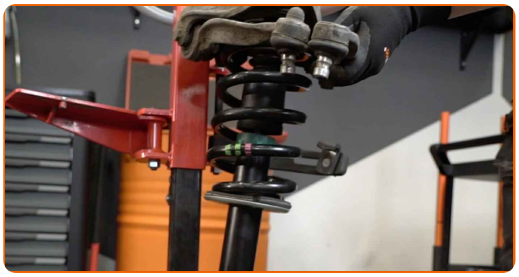
Replacement: coil springs – Audi A4 B7. Tip from AUTODOC experts:

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

42 Decompress the spring.

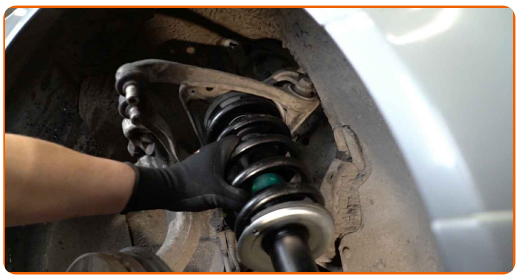
43 Treat the shock strut rod. Use copper grease.

44 Remove the assembled shock strut.

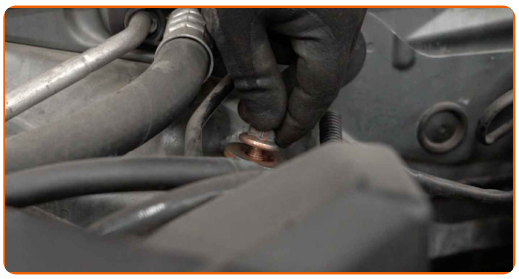


45 Treat the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.

46 Install the shock strut into the wheel arch.



47 Screw the top fastening of the shock strut mount. Use a drive socket #16. Use a ratchet wrench. Do not tighten it.



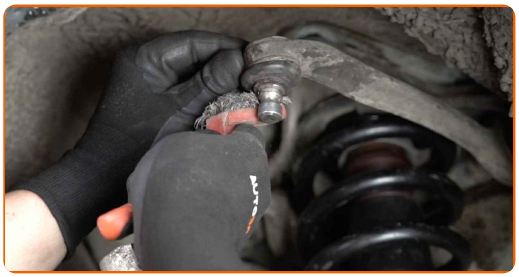
Replacement: coil springs – Audi A4 B7. Tip from AUTODOC:

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

48 Install the fastener connecting the shock strut to the suspension control arm.

49 Screw in the fastener connecting the suspension strut to the control arm. Use a combination spanner #18 (2 pieces).

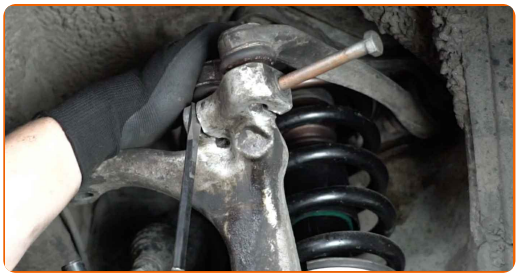
50 Clean the mounting seats and the thread of the suspension arm. Use a wire brush. Use WD-40 spray.



51 Raise the hydraulic transmission jack by 10-15 cm.

52 Install the control arms.

53 Install the fastening bolt.

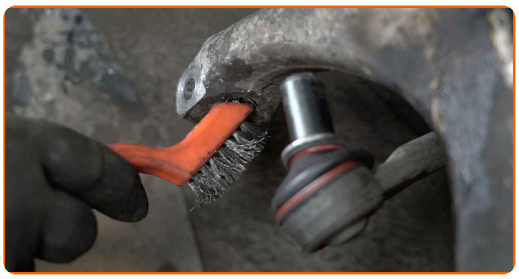


54 Remove the support from under the steering knuckle.

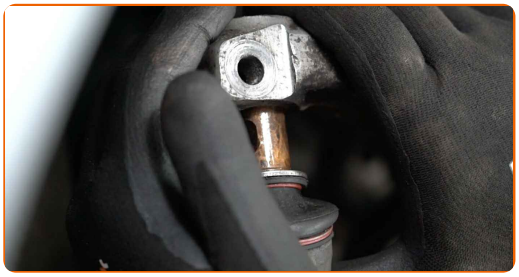
AUTODOC recommends:

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

55 Clean the mounting seats of the tie rod end. Use a wire brush. Use WD-40 spray.



56 Connect the tie rod end to the steering knuckle.



57 Install the fastening bolt.

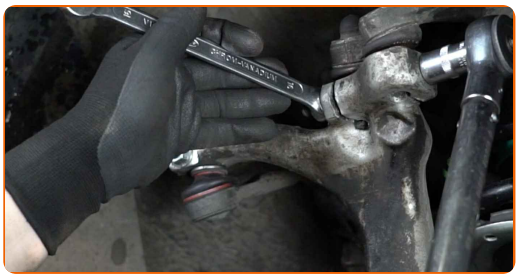
58 Screw in the tie rod end fastening bolt. Use a combination spanner #13.

59 Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #15. Use a ratchet wrench.

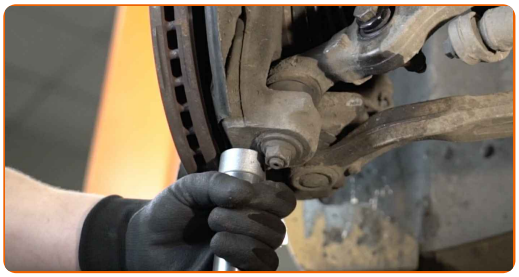
60 Tighten the tie rod end fastening bolt. Use a drive socket #13. Use a torque wrench. Tighten it to 7 nm torque.

61 Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #15. Use a torque wrench. Tighten it to 45 nm torque.

62 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.

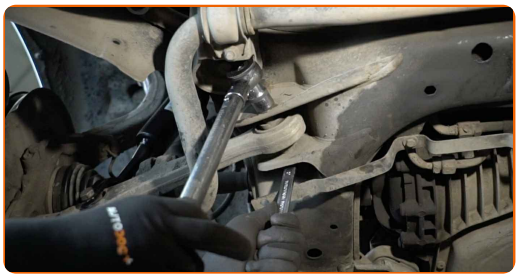


63 Prop up the steering knuckle. Use a hydraulic transmission jack.



64 Tighten the fastener connecting the shock strut to the suspension control arm. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 90 Nm torque.

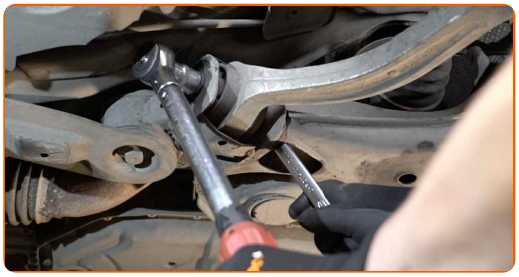
65 Tighten the front fastener connecting the control arm to the subframe. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 70 Nm torque.+180°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

66 Tighten the rear fastener connecting the arm to the body subframe. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 70 Nm torque.+180°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

67 Remove the support from under the steering knuckle.

Replacement: coil springs – Audi A4 B7. Tip:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

68 Treat the shock strut fasteners. Treat the fastener connecting the tie rod end to the steering knuckle. Treat all joints of the arm. Use copper grease.

69 Clean the wheel rim mounting seat. Use a wire brush.

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

71 Clean the brake disk surface. Use a brake cleaner.

AUTODOC recommends:

- Replacement: coil springs – Audi A4 B7. After applying the spray, wait a few minutes.

72 Install the wheel.

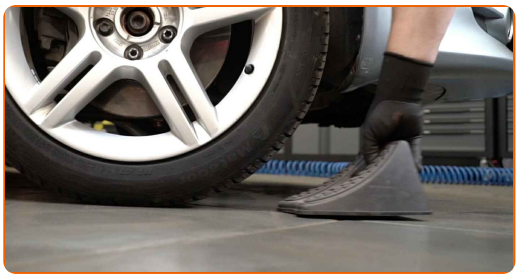
Replacement: coil springs – Audi A4 B7. Professionals recommend:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

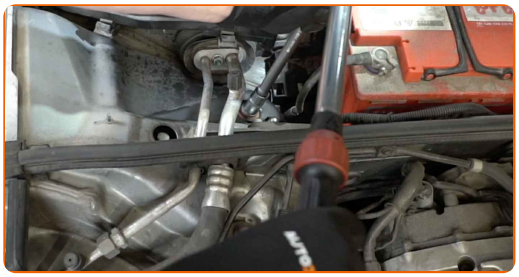
73 Screw in the wheel bolts. Use wheel impact socket #17.

74 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.

75 Remove the jacks and chocks.



76 Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #16. Use a torque wrench. Tighten it to 50 Nm torque.



77 Treat the fasteners of the shock strut mount. Use copper grease.

78 Install the shock strut mount cap.

79 Install and secure the cowl grille.

80 Remove the fender protection cover.

81

Close the hood.

WELL DONE!

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