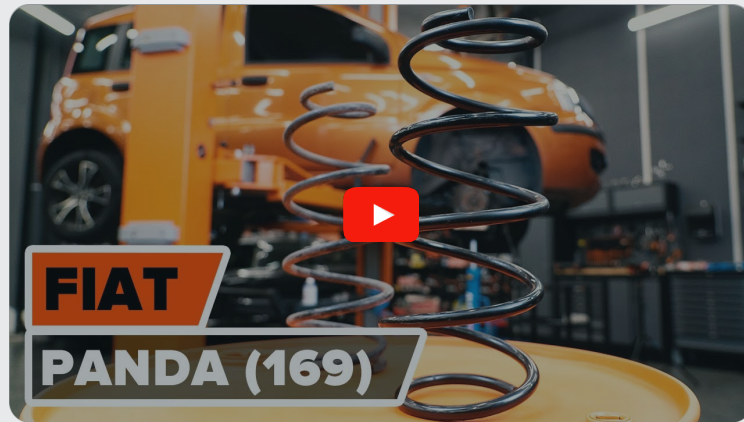




How to change front coil
springs on **Fiat Panda**
169 – replacement guide

VIDEO TUTORIAL

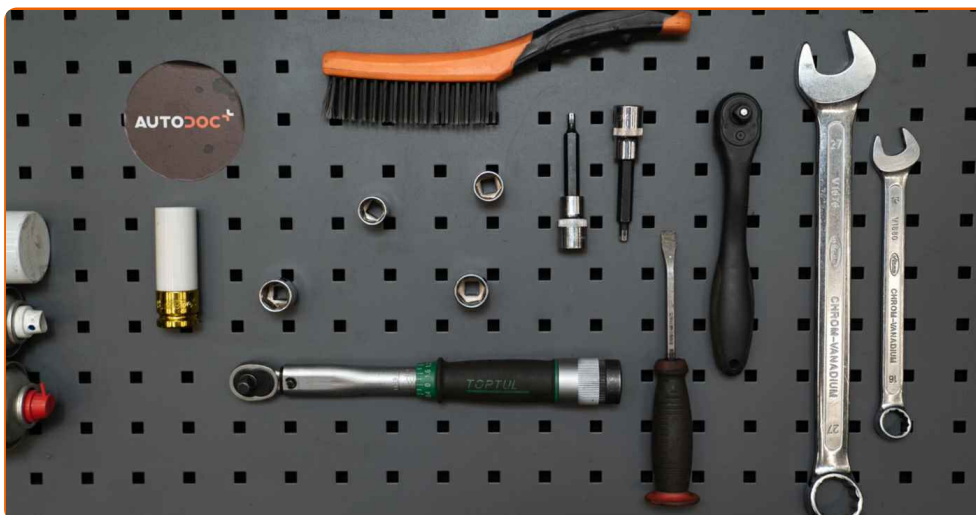
** Important!**

This replacement procedure can be used for:

FIAT PANDA (169) 1.2, FIAT PANDA Van (169) 1.2, FIAT PANDA (169) 1.1, FIAT PANDA Van (169) 1.1

The steps may slightly vary depending on the car design.

**REPLACEMENT: COIL SPRINGS – FIAT PANDA 169.
TOOLS YOU MIGHT NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #15
- Combination spanner #16
- Combination spanner #27
- Drive socket # 16
- Drive socket # 17
- Drive socket # 18
- Drive socket # 19
- HEX bit No.H6
- HEX bit No.H7
- Wheel impact socket #17
- Ratchet wrench
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

BUY TOOLS

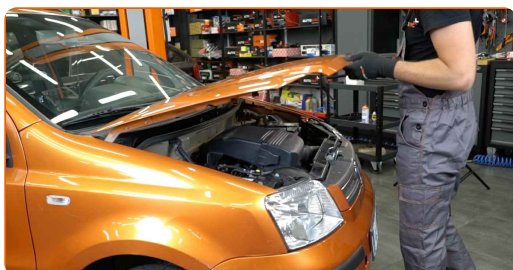
Replacement: coil springs – Fiat Panda 169. Tip from AUTODOC:

- 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.

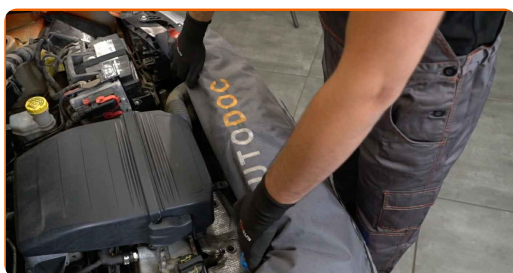
REPLACEMENT: COIL SPRINGS – FIAT PANDA 169. USE THE FOLLOWING PROCEDURE:

1

Open the bonnet.

**2**

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



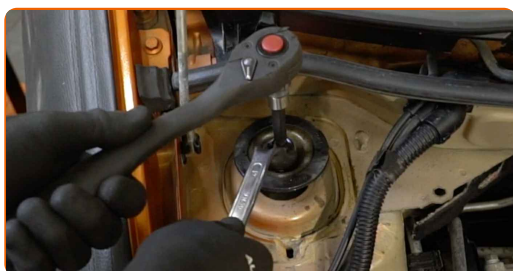
3

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



4

Loosen the upper fastener of the shock strut mount. Use HEX No.H7. Use a drive socket #19. Use a ratchet wrench.



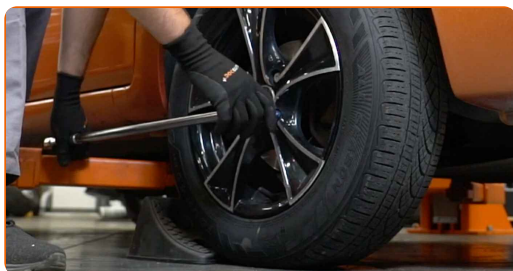
5

Secure the wheels with chocks.

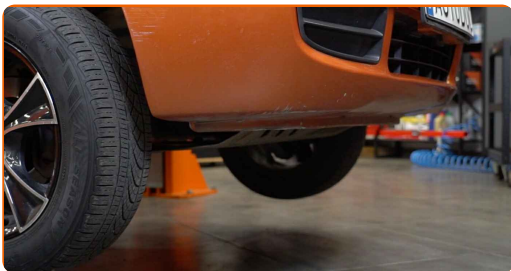


6

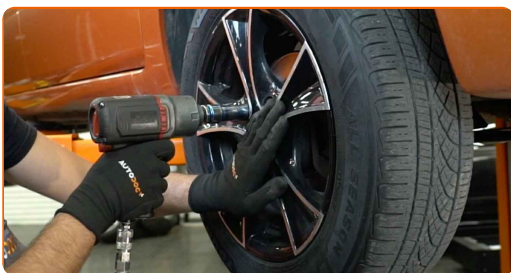
Loosen the wheel mounting bolts. Use wheel impact socket #17.



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



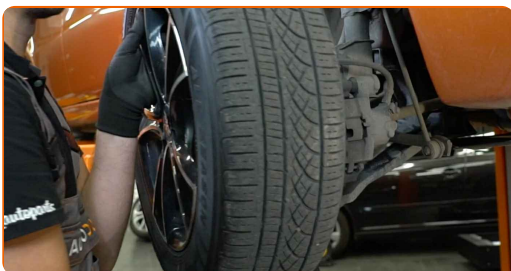
8 Unscrew the wheel bolts.



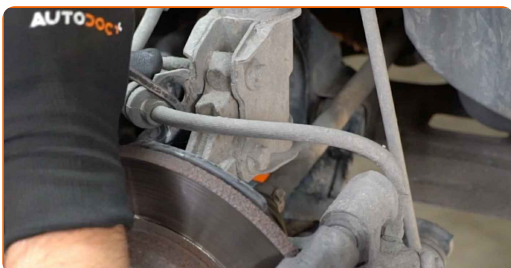
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
Fiat Panda 169

9 Remove the wheel.

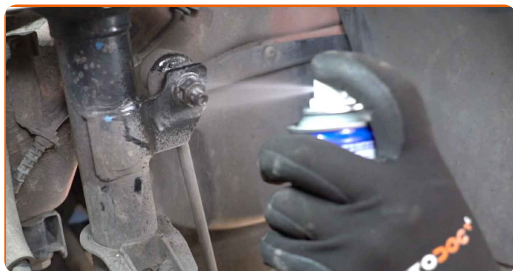


10 Detach the brake hose from the shock strut. Disconnect the ABS sensor wiring. Use a crowbar.



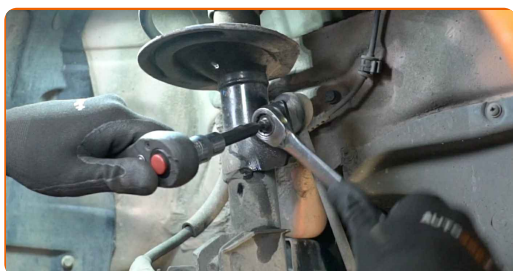
11

Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



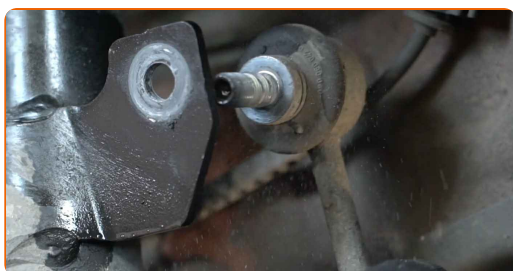
12

Unscrew the fastener connecting the stabilizer link to the shock strut. Use HEX No.H6. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.



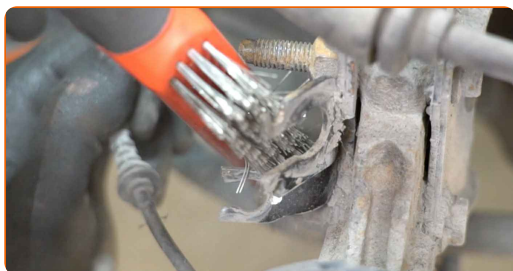
13

Remove the stabilizer rod.

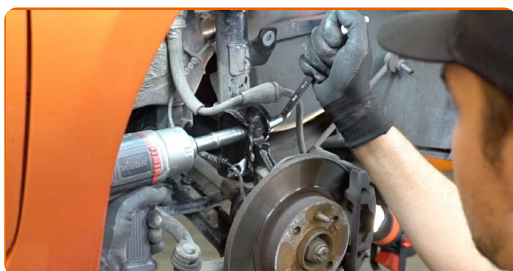


14

Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



- 15 Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #15. Use a drive socket #17. Use a ratchet wrench.



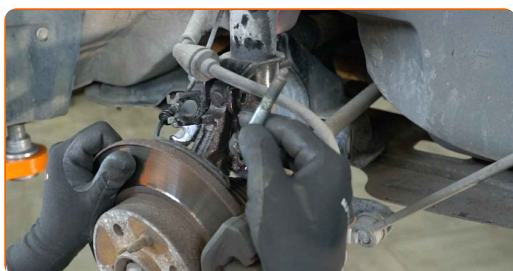
- 16 Remove the fastening bolt.



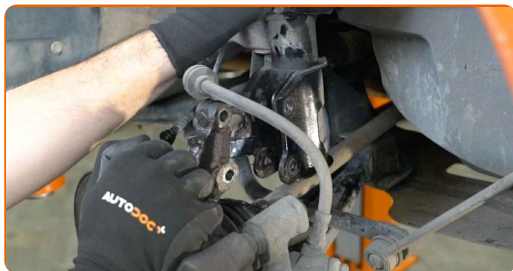
- 17 Prop up the steering knuckle. Use a hydraulic transmission jack.



- 18 Remove the fastening bolt.



19 Disconnect the steering knuckle from the shock absorber strut. Use a crowbar.



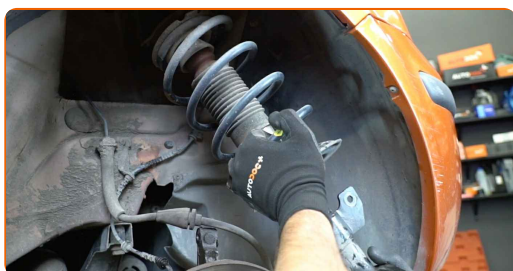
20 Unscrew the top fastening of the shock strut mount.



AUTODOC recommends:

- Fiat Panda 169 – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

21 Remove the suspension strut.



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



Replacement: coil springs – Fiat Panda 169. 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.

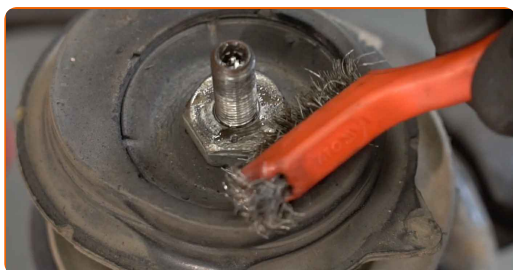
23

Compress the spring.



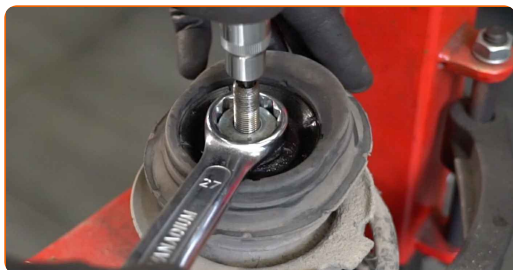
24

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



25

Remove the strut piston rod nut. Use a combination spanner #27. Use HEX No.H7. Use a ratchet wrench.



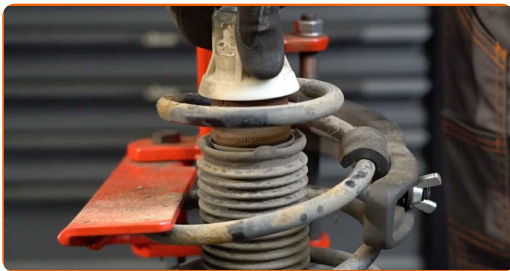
26 Remove the top strut mount.



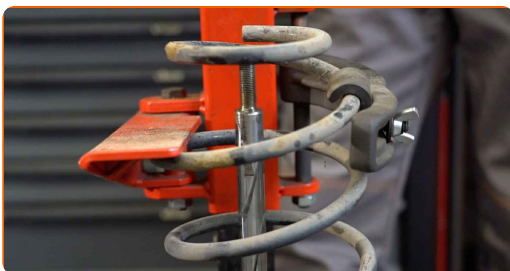
AUTODOC recommends:

- Replacement: coil springs – Fiat Panda 169. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

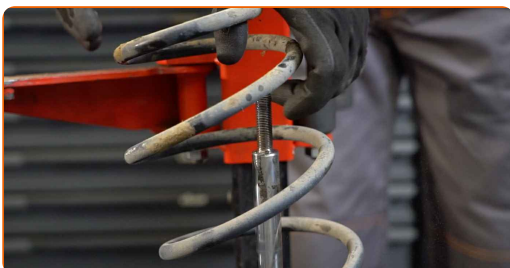
27 Remove the shock absorber dust cap and the bump stop.



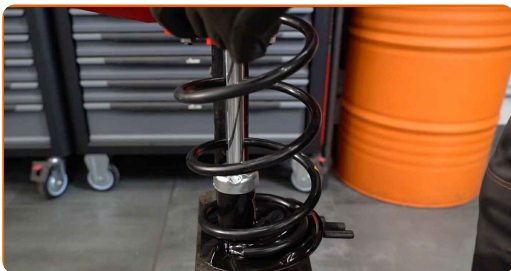
28 Release the coil spring.



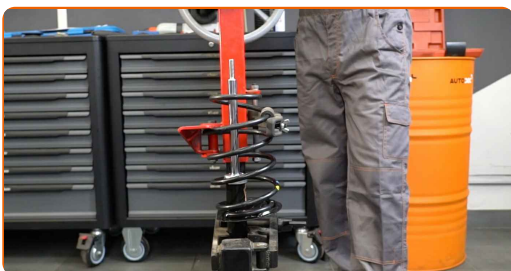
29 Remove the spring.



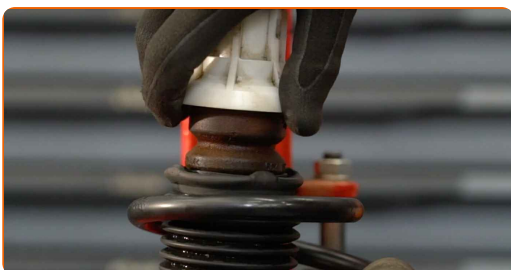
30 Install the spring on the shock absorber.



31 Compress the spring.



32 Install the boot and a bump stop onto the shock absorber.



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



34 Tighten the shock strut piston rod nut. Use a combination spanner #27. Use HEX No.H6. Use a torque wrench. Tighten it to 45 Nm torque.



Replacement: coil springs – Fiat Panda 169. AUTODOC recommends:

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

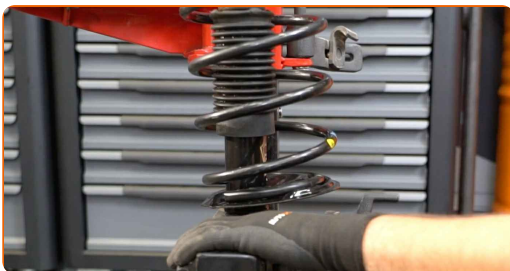
35 Decompress the spring.



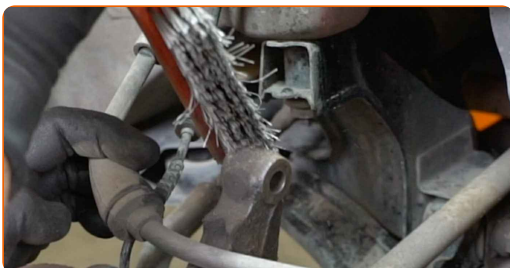
36 Treat the shock strut rod. Use copper grease.



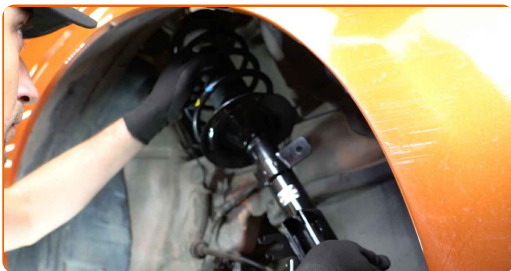
37 Remove the assembled shock strut.



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



39 Install the shock strut into the wheel arch.



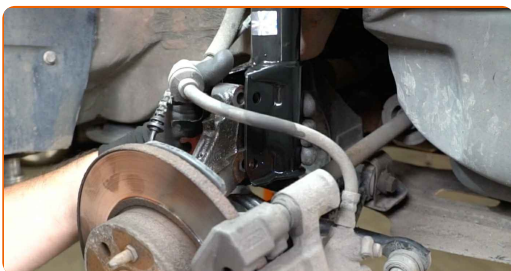
40 Screw the top fastening of the shock strut mount. Do not tighten it.



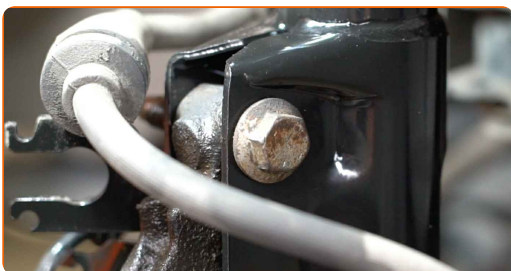
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Fiat Panda 169

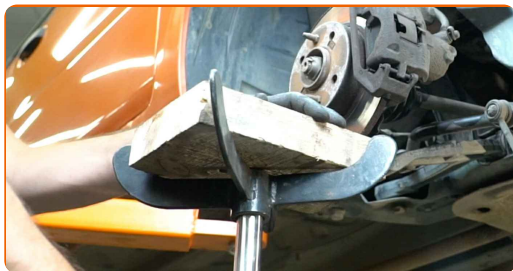
41 Fix the shock absorber strut on the steering knuckle.



42 Install the fastening bolts.



43 Remove the support from under the steering knuckle.



AUTODOC recommends:

- Replacement: coil springs – Fiat Panda 169. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

44 Screw in the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #15. Use a drive socket #17. Use a ratchet wrench.



45 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #15. Use a drive socket #17. Use a torque wrench. Tighten it to 75 Nm torque.



46 Connect the ABS sensor wiring. Attach the brake hose. Use a crowbar.



47 Install the transverse stabilizer link.



48 Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #16. Use a torque wrench. Tighten it to 23 Nm torque.



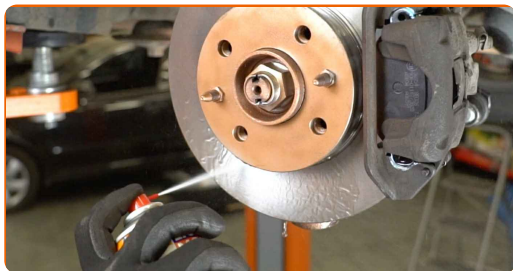
49 Treat the upper fastener of the suspension strut mount. Use copper grease.

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



51

Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: coil springs – Fiat Panda 169. After applying the spray, wait a few minutes.

52

Install the wheel.

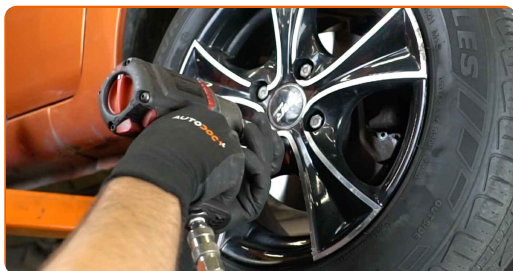


AUTODOC recommends:

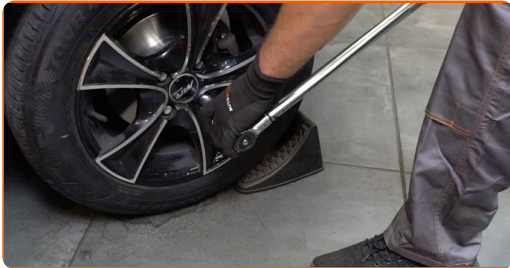
- Important! Hold the wheel while screwing in the fastening bolts. Fiat Panda 169

53

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



- 54** 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 98 Nm torque.



- 55** Remove the jacks and chocks.



- 56** Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #18. Use HEX No.H6. Use a torque wrench. Tighten it to 45 Nm torque.

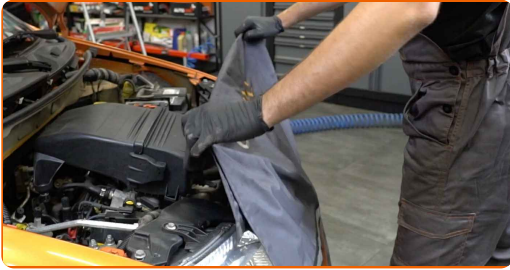


- 57** Treat the upper fastener of the suspension strut mount. Use copper grease.



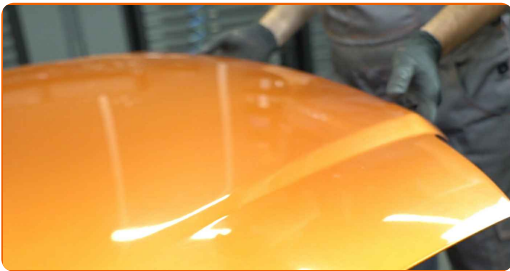
58

Remove the fender protection cover.



59

Close the hood.



WELL DONE! 

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