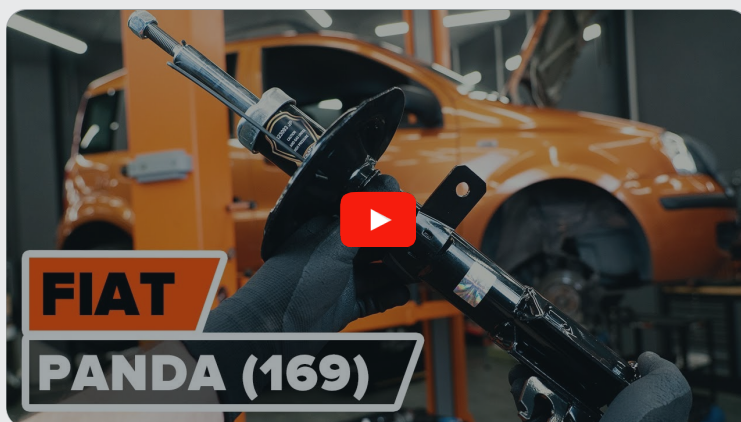




How to change front
suspension strut on **Fiat
Panda 169** – replacement
guide

VIDEO TUTORIAL

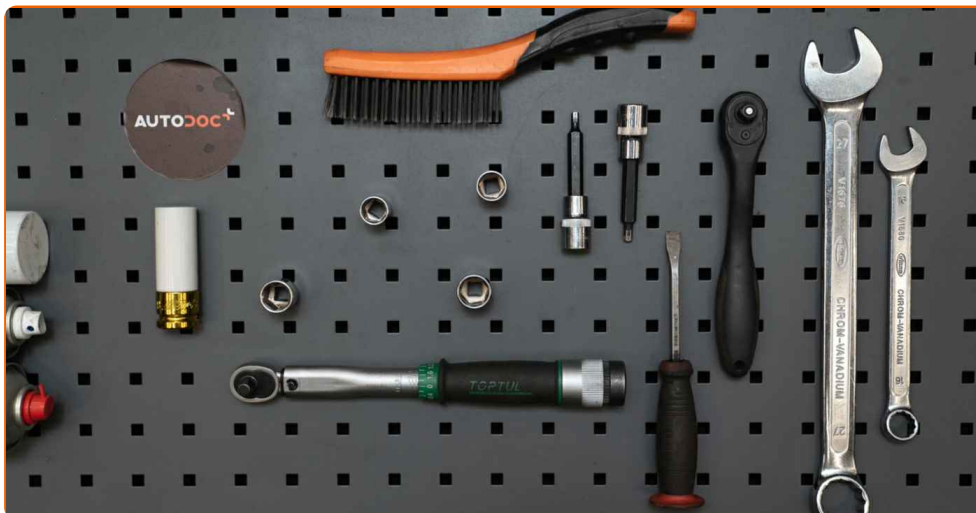


Important!

This replacement procedure can be used for:
FIAT PANDA (169) 1.2, FIAT PANDA (169) 1.1, FIAT PANDA (169) 1.3 D Multijet, FIAT PANDA Van (169) 1.2, FIAT PANDA Van (169) 1.3 D Multijet

The steps may slightly vary depending on the car design.

**REPLACEMENT: SUSPENSION STRUT – FIAT PANDA
169. TOOLS YOU 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

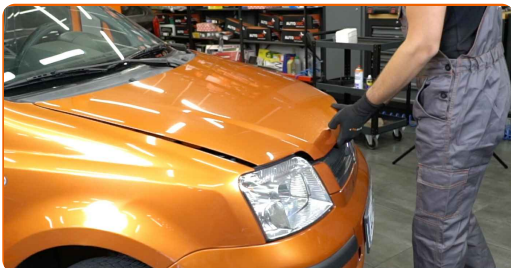
Replacement: suspension strut – Fiat Panda 169. AUTODOC experts recommend:

- 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.

REPLACEMENT: SUSPENSION STRUT – FIAT PANDA 169. RECOMMENDED SEQUENCE OF STEPS:

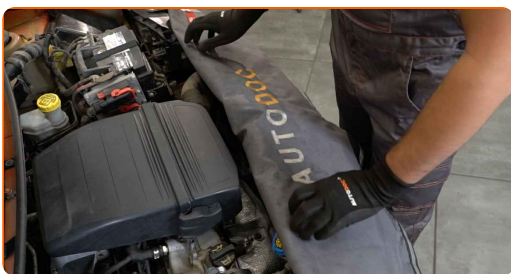
1

Open the hood.



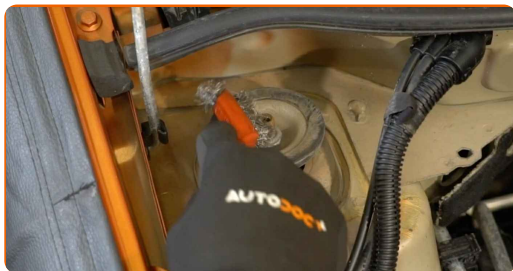
2

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



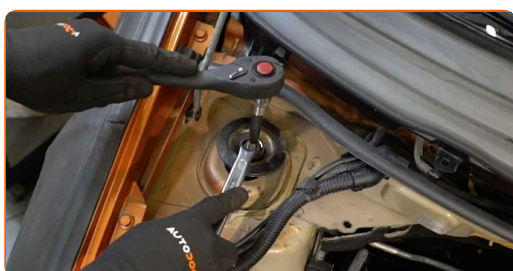
3

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.

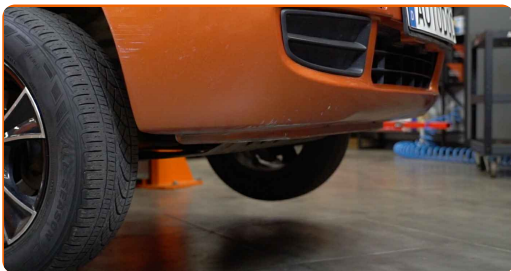


6

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



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



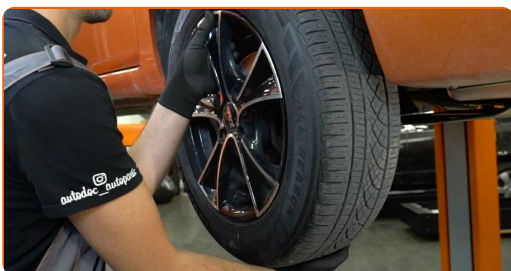
8 Unscrew the wheel bolts.



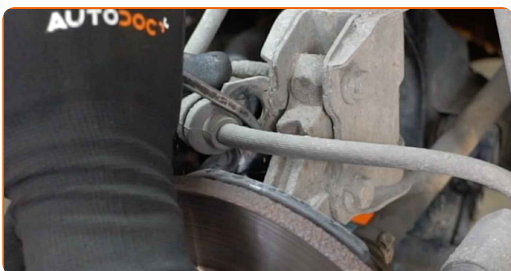
Replacement: suspension strut – Fiat Panda 169. Tip from AUTODOC:

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

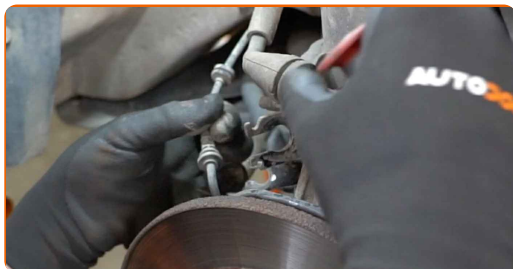
9 Remove the wheel.



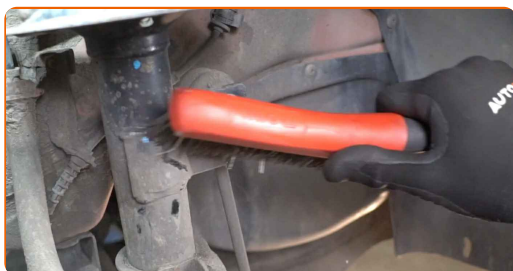
10 Detach the brake hose from the shock strut. Use a crowbar.



11 Disconnect the ABS sensor wiring. Use a crowbar.



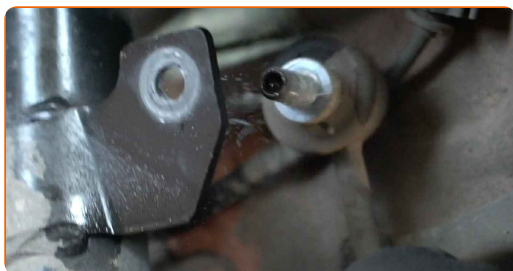
12 Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



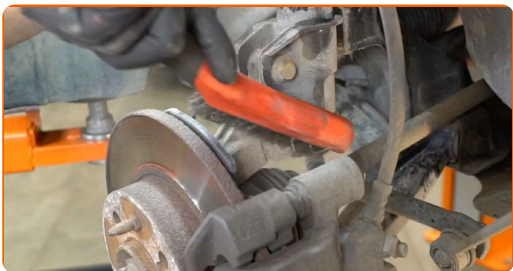
13 Unscrew the fastener connecting the stabilizer link to the shock strut. Use HEX No.H6. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.



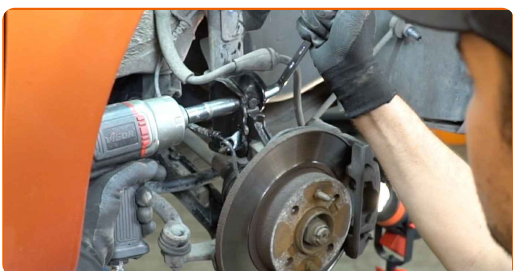
14 Remove the stabilizer rod.



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



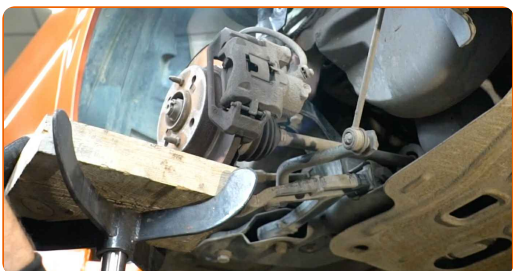
16 Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #15. Use a drive socket #17. Use a ratchet wrench.



17 Remove the fastening bolt.



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



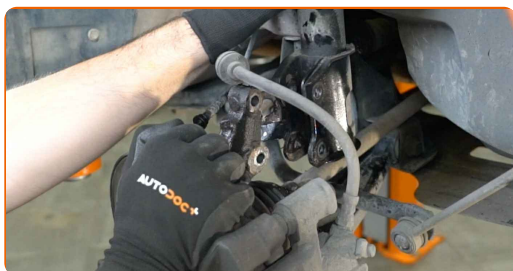
19

Remove the fastening bolt.



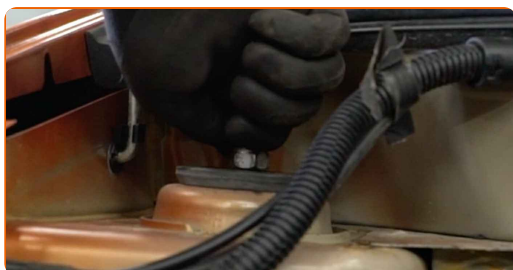
20

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



21

Unscrew the top fastening of the shock strut mount.

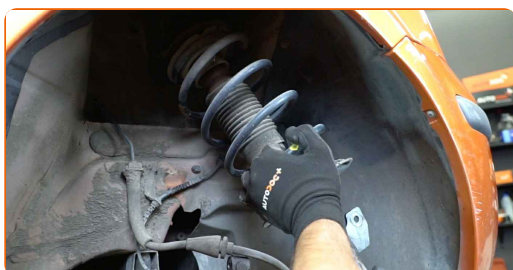


AUTODOC recommends:

- Important! Hold the suspension strut while unscrewing the fastening bolts. Fiat Panda 169

22

Remove the suspension strut.



23

Set the shock absorber strut on the spring compressor tool.

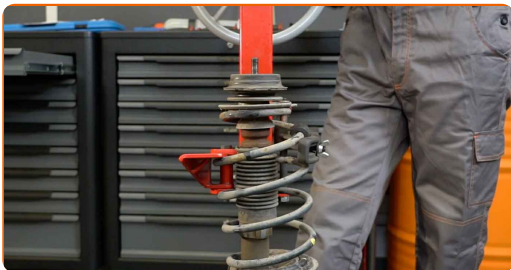


Replacement: suspension strut – Fiat Panda 169. Professionals recommend:

- 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.

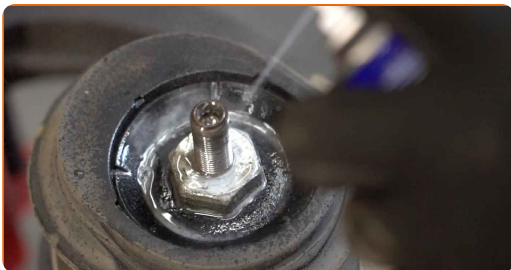
24

Compress the spring.



25

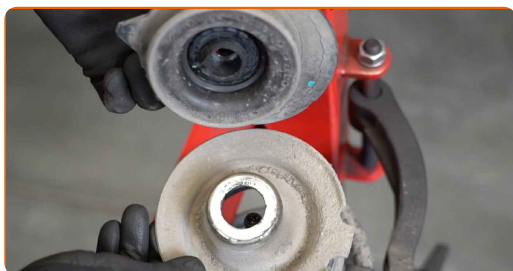
Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



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



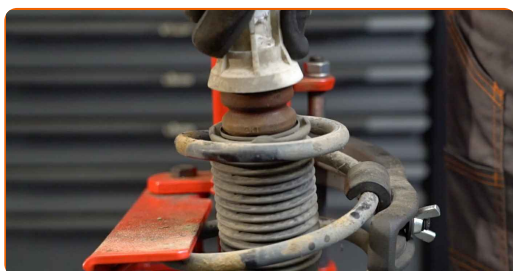
27 Remove the top strut mount.



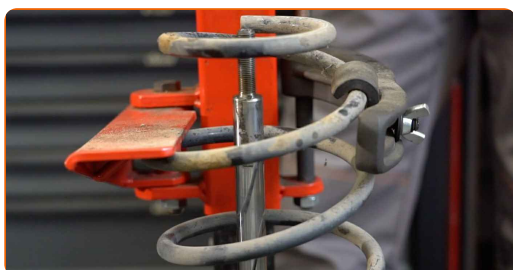
AUTODOC recommends:

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

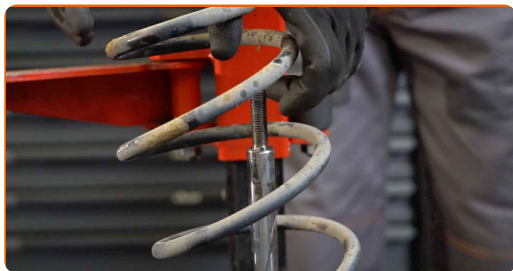
28 Remove the shock absorber dust cap and the bump stop.



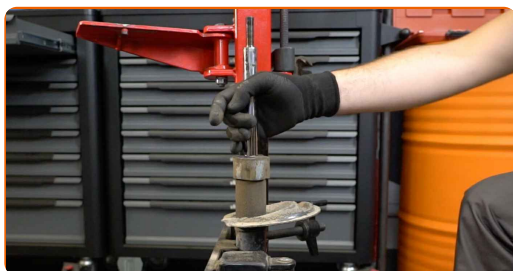
29 Release the coil spring.



30 Remove the spring.



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



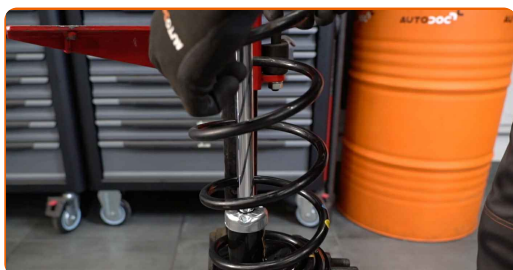
Replacement: suspension strut – Fiat Panda 169. AUTODOC experts recommend:

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

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



33 Install the spring on the shock absorber.



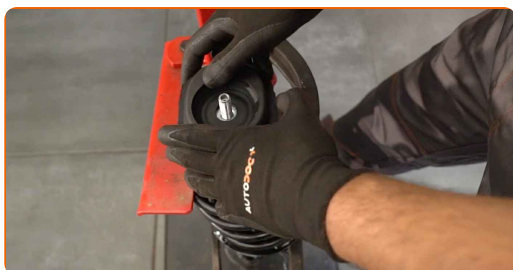
34 Compress the spring.



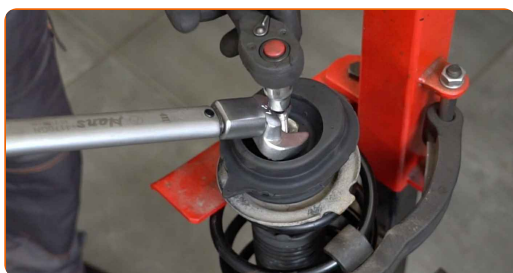
35 Install the dust sleeve and the bump stop on the new shock absorber.



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



37 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: suspension strut – Fiat Panda 169. Tip:

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

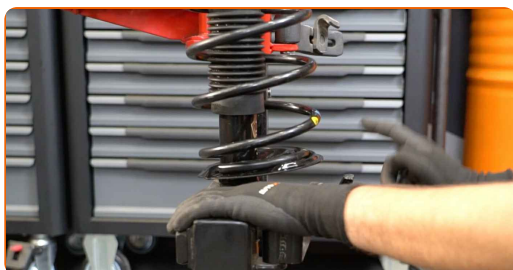
38 Decompress the spring.



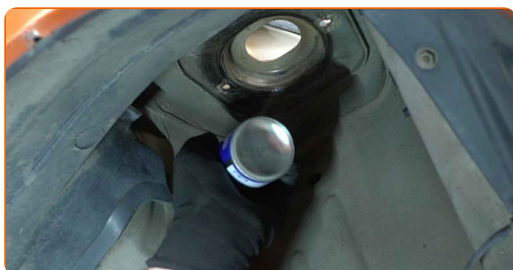
39 Treat the shock strut rod. Use copper grease.



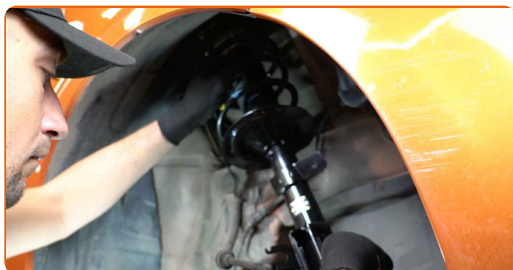
40 Remove the assembled shock strut.



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



42 Install the shock strut into the wheel arch.



43

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



AUTODOC recommends:

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

44

Fix the shock absorber strut on the steering knuckle.



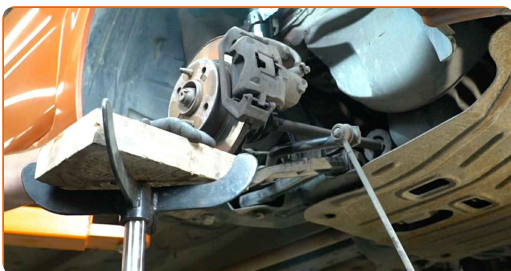
45

Install the fastening bolts.



46

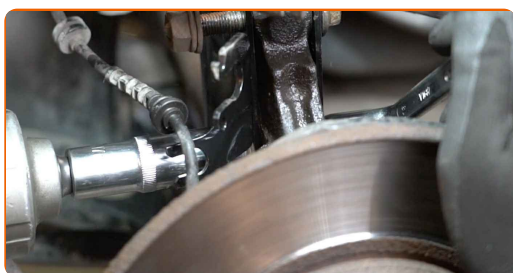
Remove the support from under the steering knuckle.



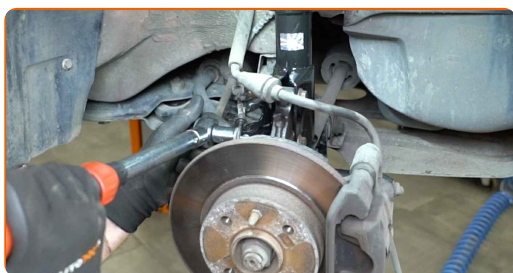
AUTODOC recommends:

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

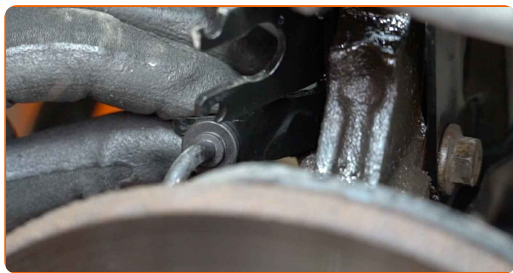
47 Screw in the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #15. Use a drive socket #17. Use a ratchet wrench.



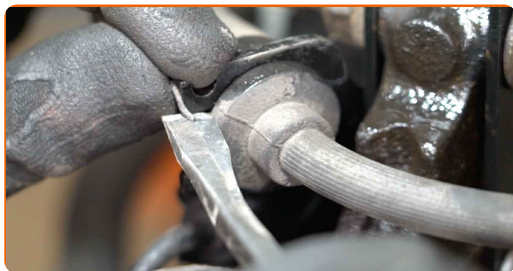
48 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #15. Use a drive socket #17. Use a torque wrench. Tighten it to 75 Nm torque.



49 Connect the ABS sensor wiring.



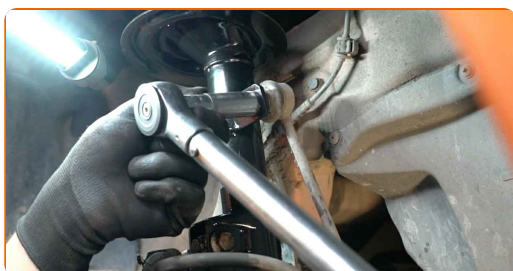
50 Attach the brake hose. Use a crowbar.



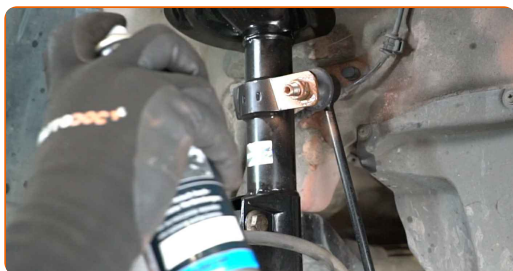
51 Install the transverse stabilizer link.



52 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.

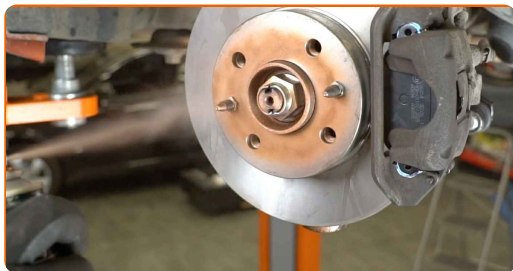


53 Treat the shock strut fasteners. Use copper grease.



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: suspension strut – Fiat Panda 169. After applying the spray, wait a few minutes.

56

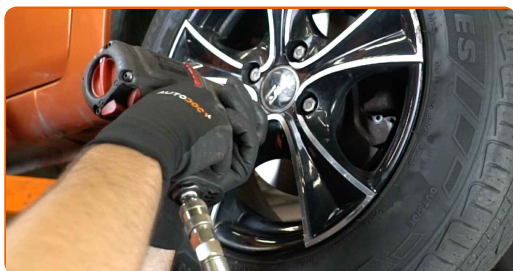
Install the wheel.



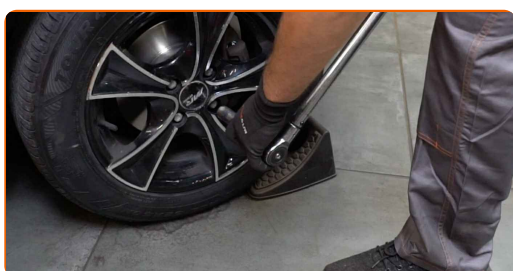
AUTODOC recommends:

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

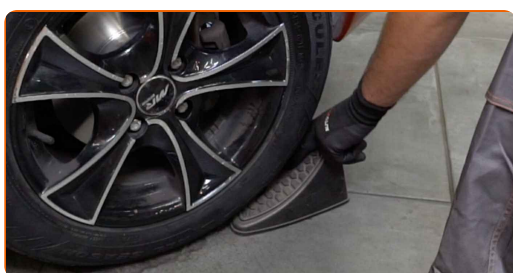
57 Screw in the wheel bolts. Use wheel impact socket #17.



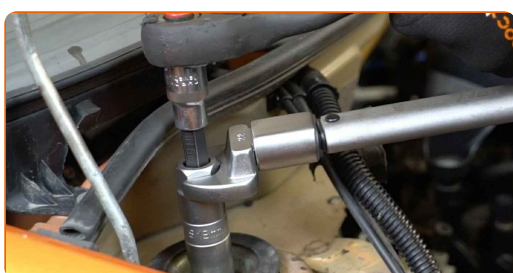
58 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 98 Nm torque.



59 Remove the jacks and chocks.



60 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.

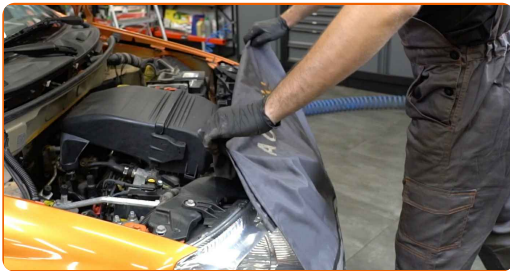


61

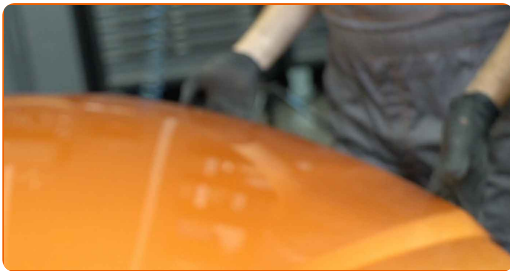
Treat the upper fastener of the suspension strut mount. Use copper grease.

**62**

Remove the fender protection cover.

**63**

Close the hood.



WELL DONE! 

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