



How to change front coil
springs on **CITROËN C4**
Coupe (LA_) –
replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

Important!

This replacement procedure can be used for:

CITROËN C4 Coupe (LA_) 1.6 16V, CITROËN C4 Coupe (LA_) 2.0 16V, CITROËN C4 Coupe (LA_) 1.6 HDi, CITROËN C4 Coupe (LA_) 2.0 HDi

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: PEUGEOT 307 SW (3H) 2.0 HDi 135

REPLACEMENT: COIL SPRINGS – CITROËN C4 COUPE (LA_). TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #16
- Combination spanner #18
- Drive socket # 10
- Drive socket # 15
- Drive socket # 16
- Drive socket # 18
- Drive socket # 21
- HEX bit No.H7.
- Torx bit T20
- Wheel impact socket #17
- Ratchet wrench
- Hammer
- Pin punch
- Clip removal tool
- Universal puller
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

Buy tools

Replacement: coil springs – CITROËN C4 Coupe (LA_). 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 – CITROËN C4 COUPE (LA_). USE THE FOLLOWING PROCEDURE:

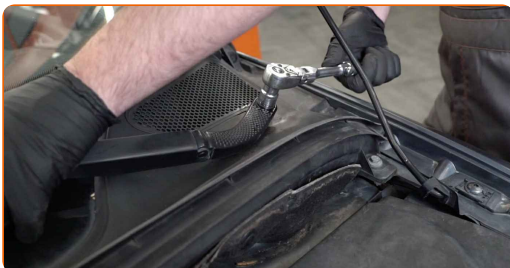
1 Open the bonnet.

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

3 Clean the fasteners of the wiper arms. Use a wire brush. Use WD-40 spray.



4 Unscrew the fasteners of the windscreen wiper arms. Use a drive socket #16. Use a ratchet wrench.



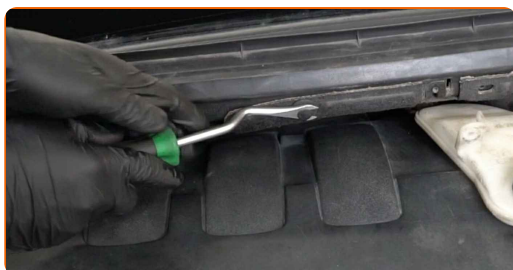
5 Remove the wiper arms. Use a universal puller.



6 Unscrew the fasteners of the brake fluid reservoir. Use Torx T20. Use a ratchet wrench.



7 Remove the clips of the plastic cowl grille. Use a clip removal tool.



8 Unscrew the fasteners of the cowl grille. Use a drive socket #10. Use a ratchet wrench.



9 Raise up and remove the cowl grille.



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

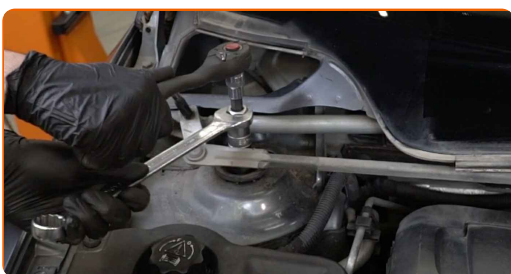


11 Switch on the ignition.

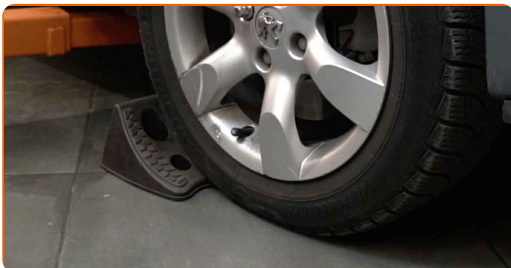
12 Set the windscreen wipers to the service position.

13 Switch off the ignition.

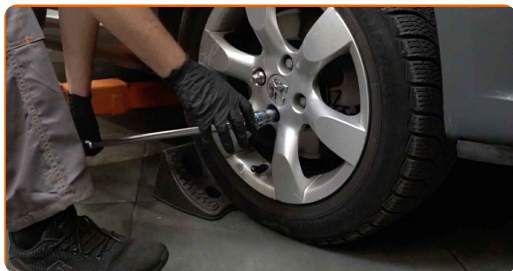
14 Loosen the upper fastener of the shock strut mount. Use HEX No.H7. Use a drive socket #21. Use a ratchet wrench.



15 Secure the wheels with chocks.



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



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

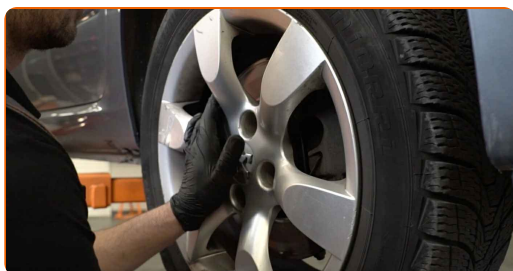
18 Unscrew the wheel bolts.



Replacement: coil springs – CITROËN C4 Coupe (LA_). Tip from AUTODOC:

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

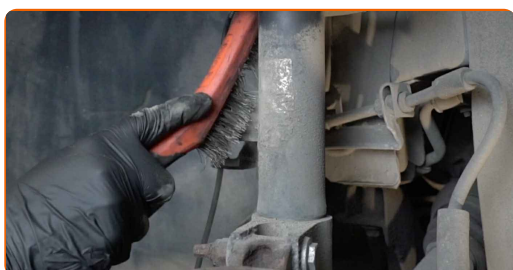
19 Remove the wheel.



20 Remove the ABS wiring harness bracket.



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

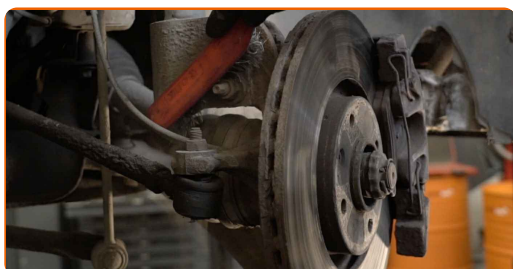


22 Unscrew the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #16. Use a drive socket #15. Use a ratchet wrench.



23 Remove the stabilizer rod.

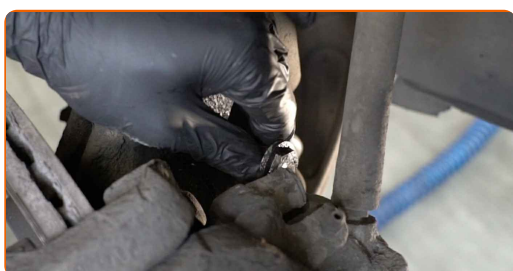
24 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



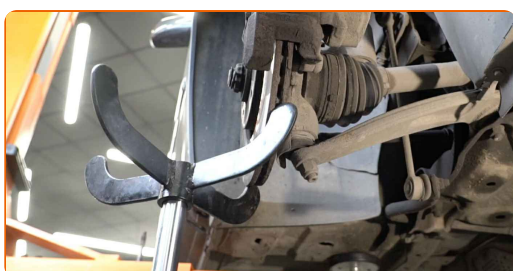
- 25** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



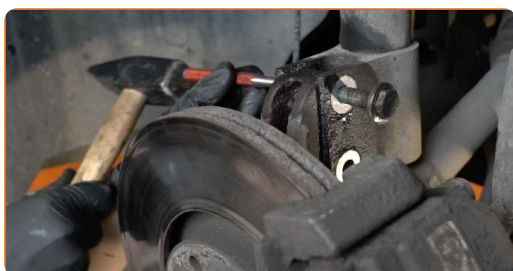
- 26** Remove the fastening bolt.



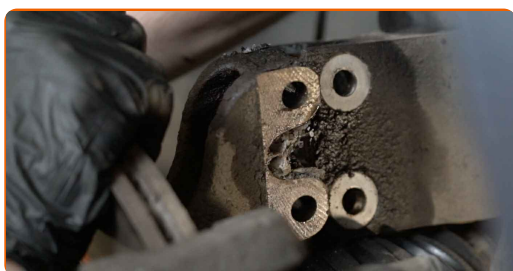
- 27** Prop up the steering knuckle. Use a hydraulic transmission jack.



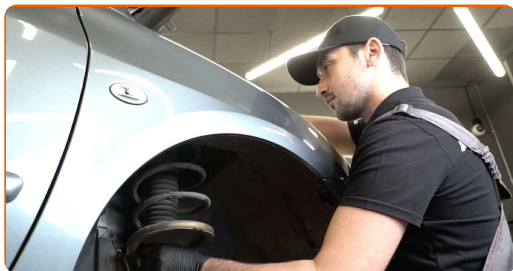
- 28** Remove the fastening bolt. Use a pin punch. Use a hammer.



- 29** Disconnect the steering knuckle from the shock absorber strut.



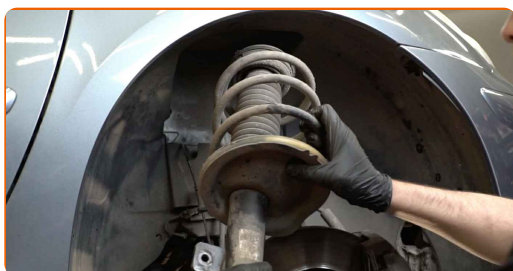
30 Unscrew the top fastening of the shock strut mount.



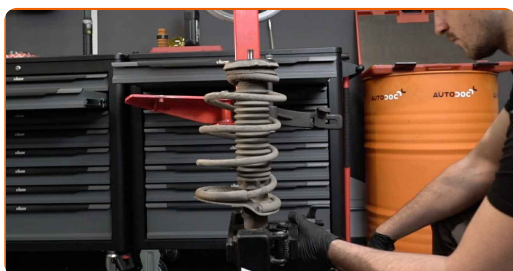
AUTODOC recommends:

- Important! Hold the suspension strut while unscrewing the fastening bolts.
CITROËN C4 Coupe (LA_)

31 Remove the suspension strut.



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

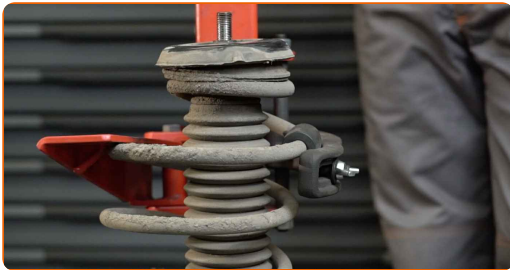


Replacement: coil springs – CITROËN C4 Coupe (LA_). Professionals recommend:

- 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.

33

Compress the spring.



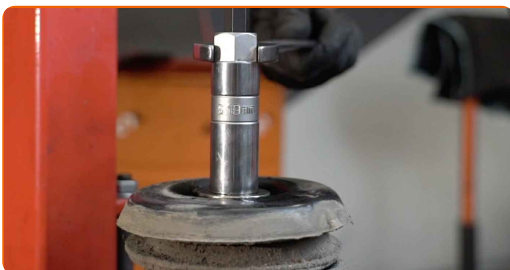
34

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



35

Remove the strut piston rod nut. Use HEX No.H7. Use a drive socket #18. Use a ratchet wrench.



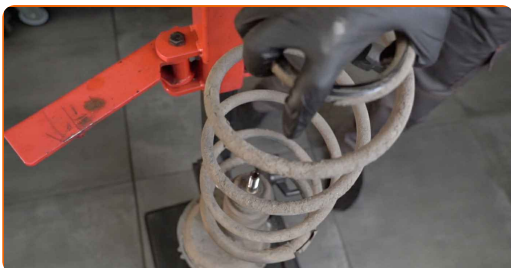
36 Remove the top strut mount.



37 Release the coil spring.



38 Remove the spring.



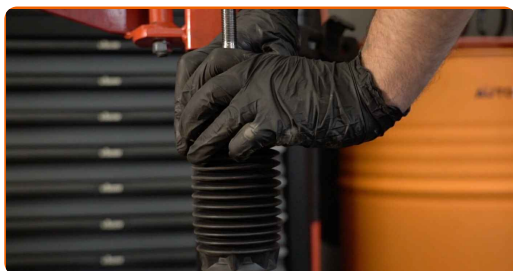
39 Remove the shock absorber dust cap and the bump stop.



AUTODOC recommends:

- Replacement: coil springs – CITROËN C4 Coupe (LA_). Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

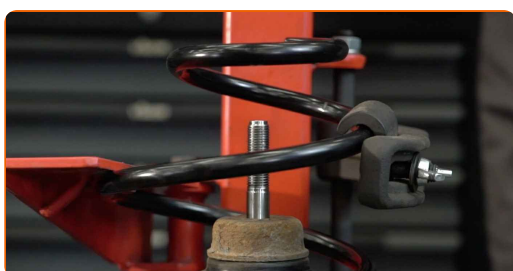
40 Install the boot and a bump stop onto the shock absorber.



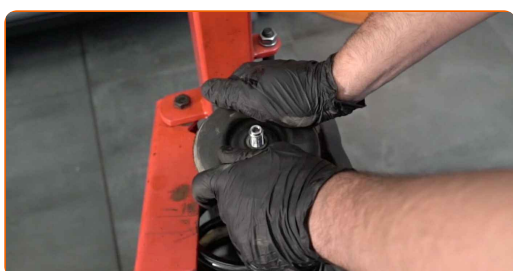
41 Install the spring on the shock absorber.



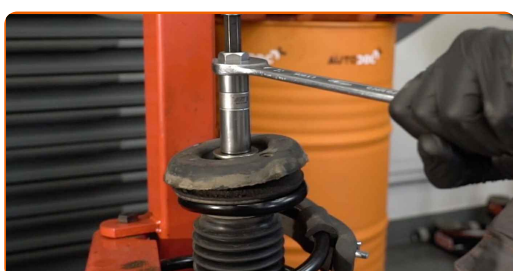
42 Compress the spring.



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



44 Tighten the shock strut piston rod nut. Use a drive socket #18. Use HEX No.H7. Use a torque wrench. Tighten it to 69 Nm torque.

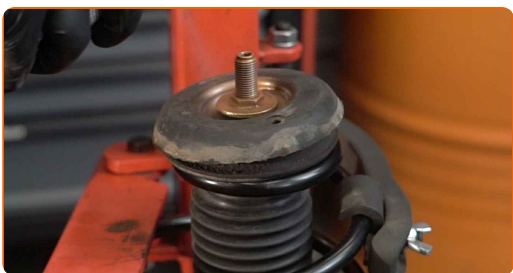


Replacement: coil springs – CITROËN C4 Coupe (LA_). AUTODOC recommends:

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

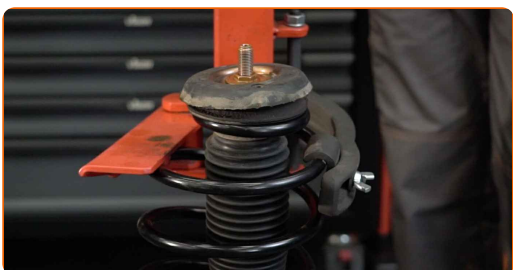
45

Treat the shock strut rod. Use copper grease.



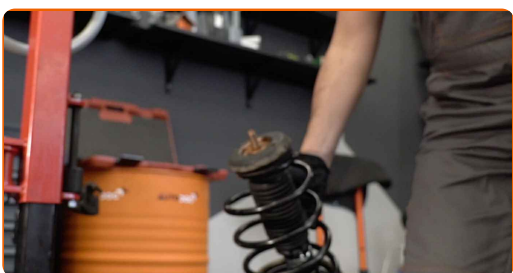
46

Decompress the spring.



47

Remove the assembled shock strut.

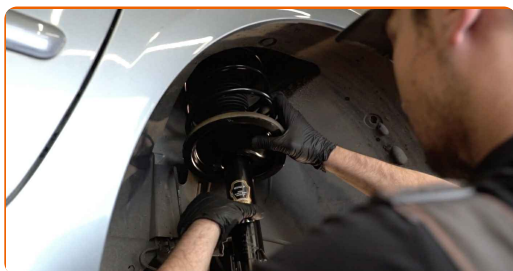


48

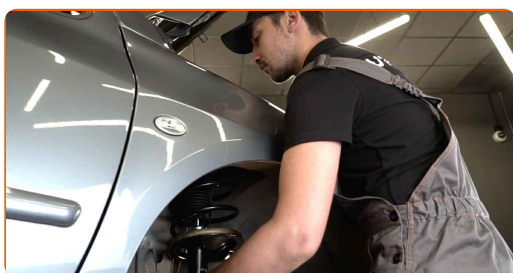
Treat the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



49 Install the shock strut into the wheel arch.



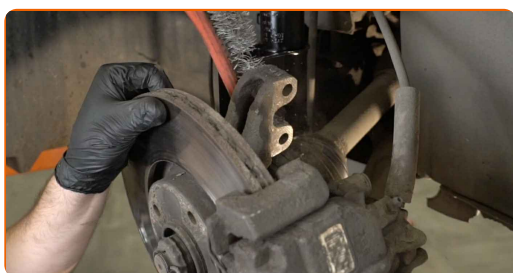
50 Screw the top fastening of the shock strut mount. Do not tighten it.



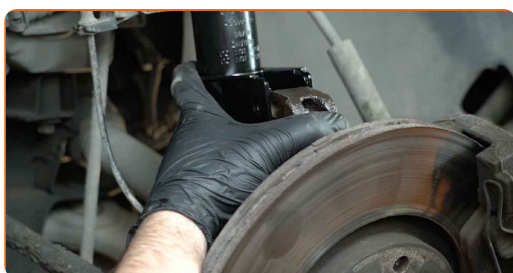
Replacement: coil springs – CITROËN C4 Coupe (LA_). Tip from AUTODOC:

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

51 Treat the shock strut mounting seat on the steering knuckle. Use a wire brush. Use WD-40 spray.



52 Fix the shock absorber strut on the steering knuckle.



53 Install the fastening bolts.

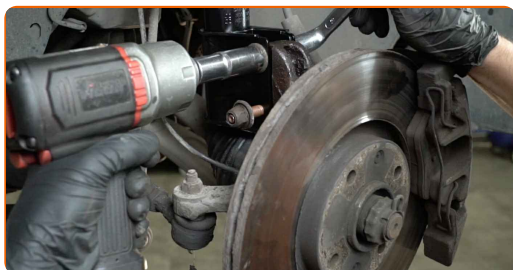


54 Remove the support from under the steering knuckle.

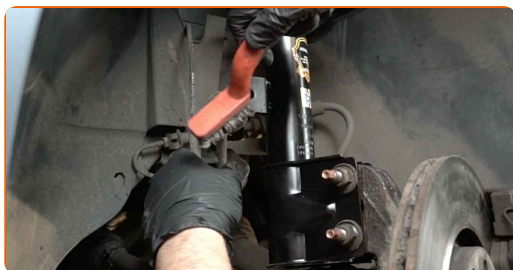
AUTODOC recommends:

- Replacement: coil springs – CITROËN C4 Coupe (LA_). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

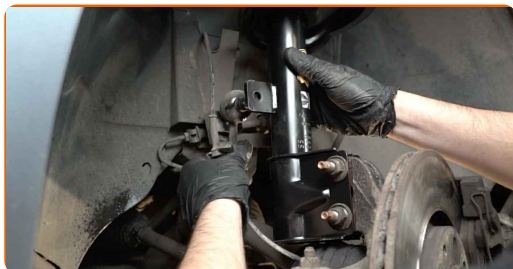
55 Screw in the fastener that connects the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



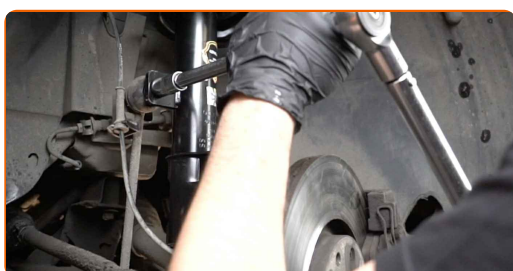
56 Clean the mounting seats of the stabiliser link. Use a wire brush. Use WD-40 spray.



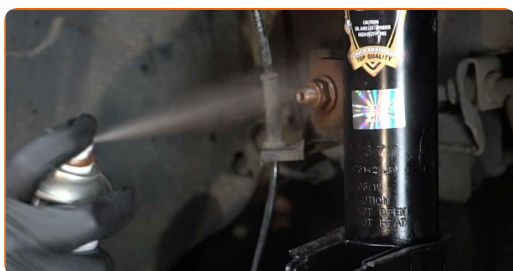
57 Install the transverse stabilizer link.



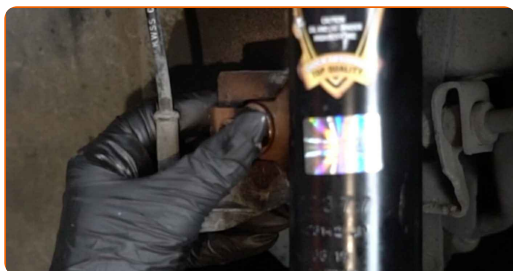
58 Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #15. Use a torque wrench. Tighten it to 36 Nm torque.



59 Treat all joints of the stabiliser link. Use copper grease.



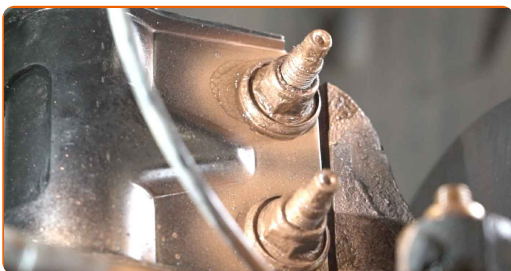
60 Install the ABS wiring harness bracket.



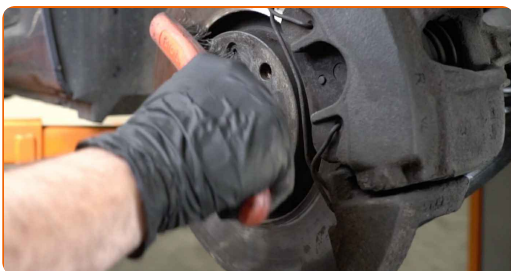
- 61 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 90 Nm torque.



- 62 Treat the shock strut fasteners. Use copper grease.



- 63 Clean the wheel rim mounting seat. Use a wire brush.



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



65

Clean the brake disk surface. Use a brake cleaner.

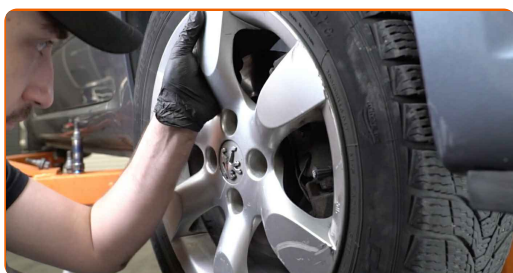


Replacement: coil springs – CITROËN C4 Coupe (LA_). Tip:

- After applying the spray, wait a few minutes.

66

Install the wheel.



AUTODOC recommends:

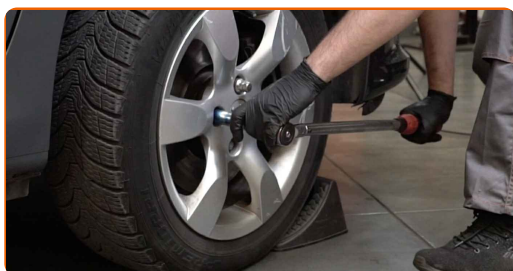
- Important! Hold the wheel while screwing in the fastening bolts. CITROËN C4 Coupe (LA_)

67

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



68 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 100 Nm torque.



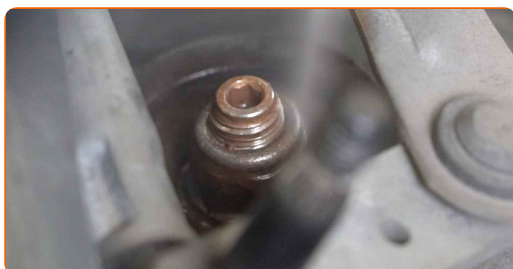
69 Remove the jacks and chocks.



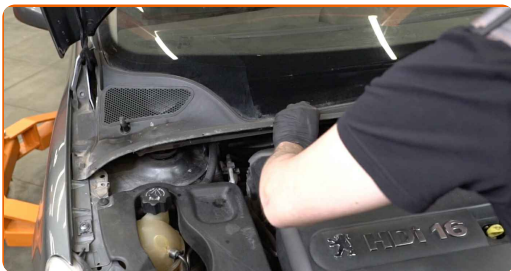
70 Tighten the upper fastener of the shock absorber strut mount. Use HEX No.H7. Use a drive socket #21. Use a torque wrench. Tighten it to 69 Nm torque.



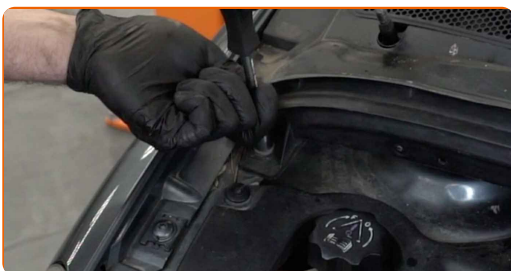
71 Treat the fasteners of the shock strut mount. Use copper grease.



72 Install and secure the cowl grille.



73 Tighten the fasteners of the cowl grille. Use a drive socket #10. Use a ratchet wrench.



74 Install the fasteners of the wiper plastic cowl grille.



75 Tighten the brake fluid reservoir fasteners. Use Torx T20. Use a ratchet wrench.



76 Switch on the ignition. Return the windscreen wipers from the service position.

77 Switch off the ignition.

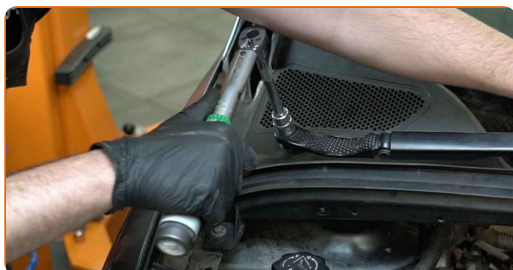
78 Reinstall the wiper arms.



Replacement: coil springs – CITROËN C4 Coupe (LA_). Tip from AUTODOC experts:

- Make sure not to mix up the wiper arms on the driver's and passenger's sides.

79 Tighten the fasteners of the wiper arms. Use a drive socket #16. Use a torque wrench. Tighten it to 35 Nm torque.



80 Remove the fender protection cover.

81 Close the hood.

WELL DONE! 

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