



How to change front coil  
springs on **CITROËN C4 I**  
**(LC\_)** – 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 I (LC\_) 1.6 16V, CITROËN C4 I (LC\_) 2.0 16V, CITROËN C4 I (LC\_) 1.6 HDi,  
CITROËN C4 I (LC\_) 2.0 HDi, CITROËN C4 I (LC\_) 1.6 16V Bio-Flex

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 I (LC\_).  
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 I (LC\_). 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 I (LC\_). USE THE FOLLOWING PROCEDURE:

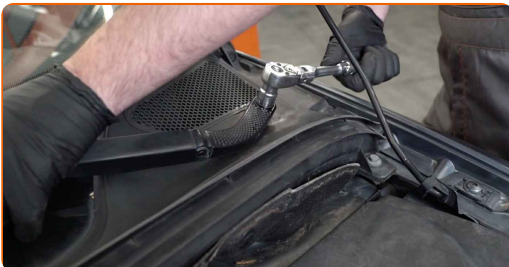
**1** Open the bonnet.

**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.



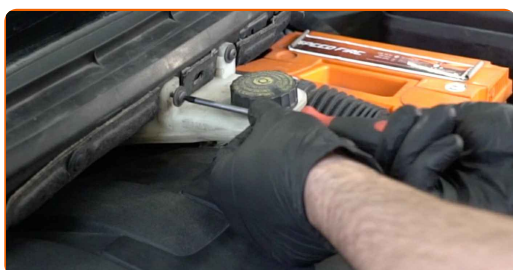
**4** Unscrew the fasteners of the windscreen wiper arms. Use a drive socket #16. Use a ratchet wrench.



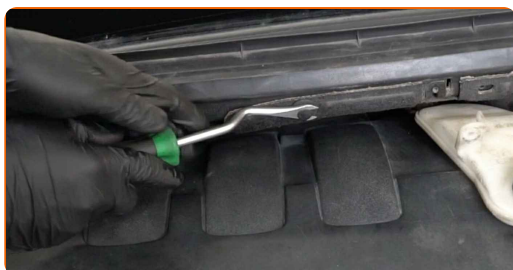
**5** Remove the wiper arms. Use a universal puller.



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



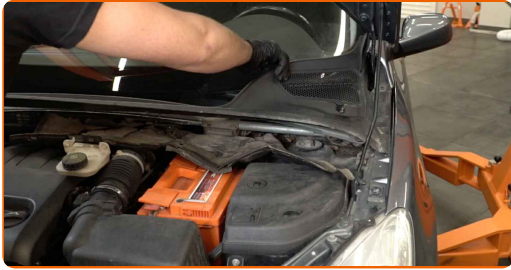
**7** Remove the clips of the plastic cowl grille. Use a clip removal tool.



**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.

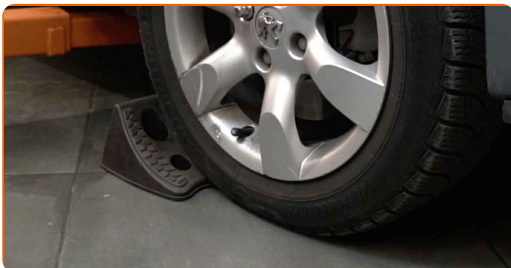
**12** Set the windscreen wipers to the service position.

**13** Switch off the ignition.

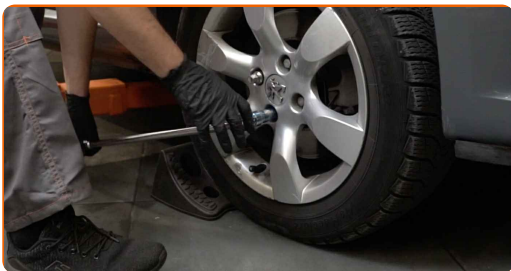
**14** Loosen the upper fastener of the shock strut mount. Use HEX No.H7. Use a drive socket #21. Use a ratchet wrench.



**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.

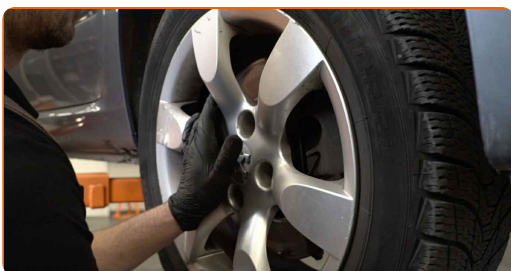
**18** Unscrew the wheel bolts.



Replacement: coil springs – CITROËN C4 I (LC\_). 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.

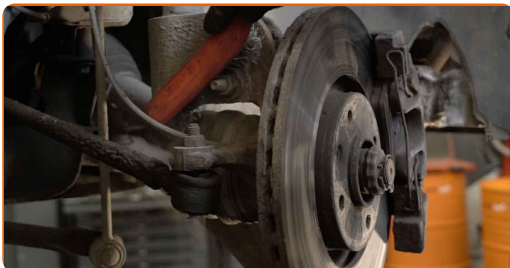


**22** Unscrew the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #16. Use a drive socket #15. Use a ratchet wrench.



**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.

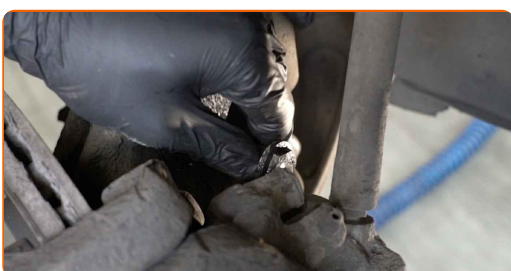




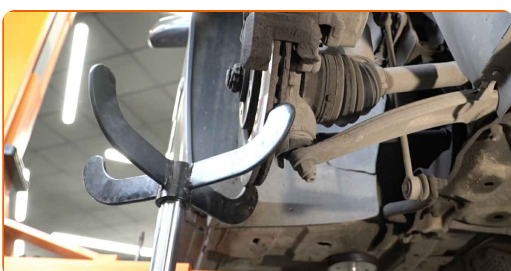
- 25 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



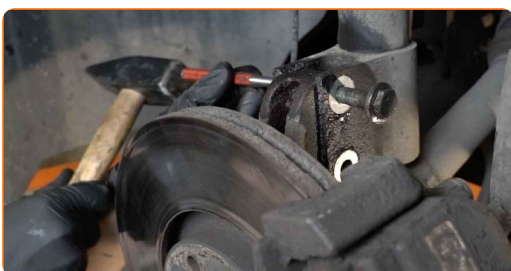
- 26 Remove the fastening bolt.



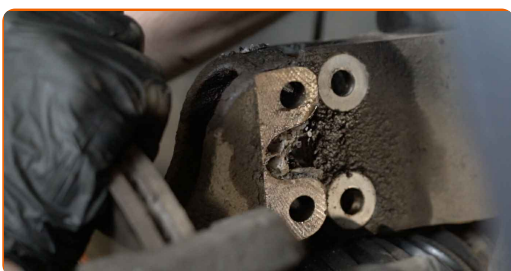
- 27 Prop up the steering knuckle. Use a hydraulic transmission jack.



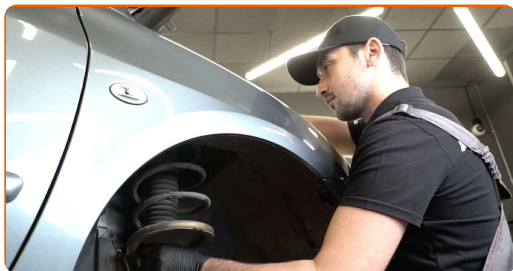
- 28 Remove the fastening bolt. Use a pin punch. Use a hammer.



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



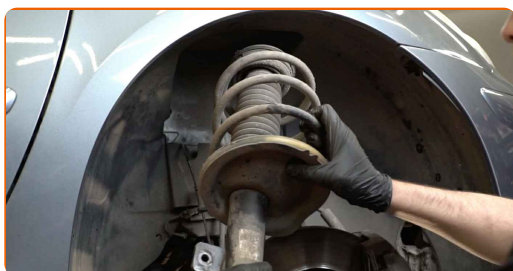
**30** Unscrew the top fastening of the shock strut mount.



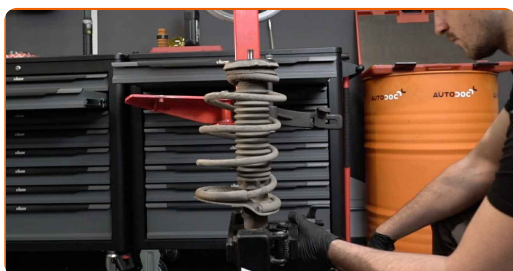
**AUTODOC recommends:**

- Important! Hold the suspension strut while unscrewing the fastening bolts.  
CITROËN C4 I (LC\_)

**31** Remove the suspension strut.



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

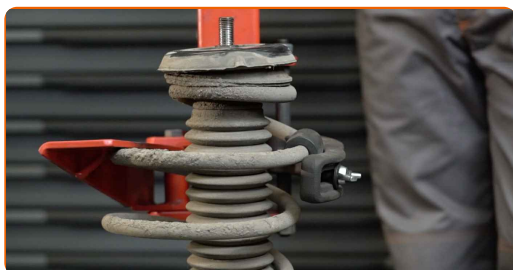


Replacement: coil springs – CITROËN C4 I (LC\_). Professionals recommend:

- 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.

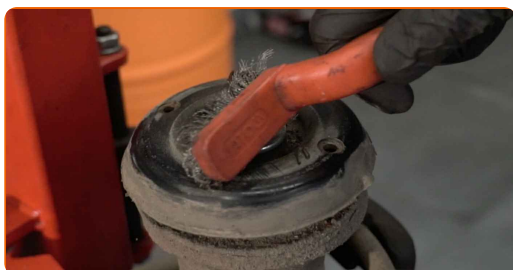
33

Compress the spring.



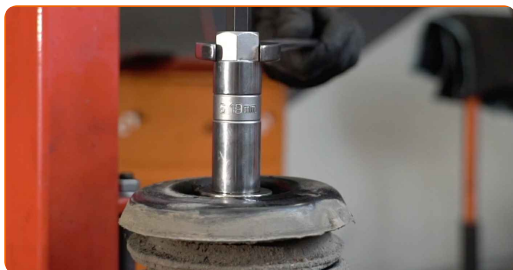
34

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



35

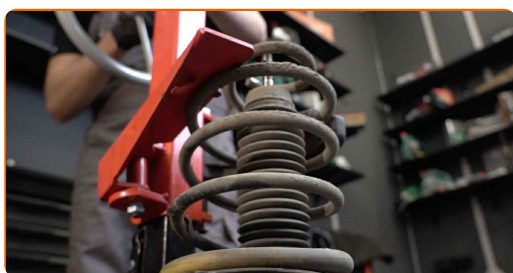
Remove the strut piston rod nut. Use HEX No.H7. Use a drive socket #18. Use a ratchet wrench.



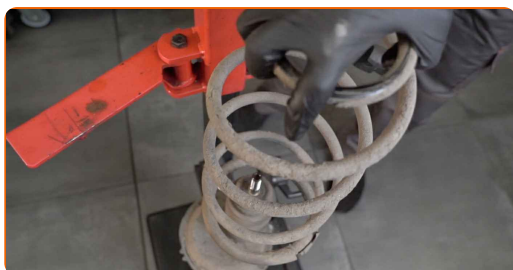
**36** Remove the top strut mount.



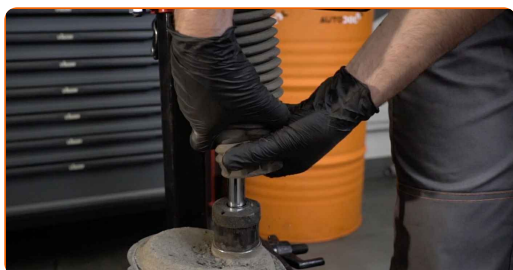
**37** Release the coil spring.



**38** Remove the spring.



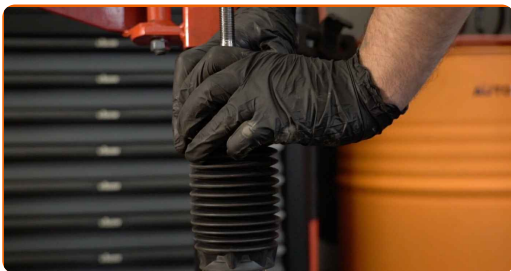
**39** Remove the shock absorber dust cap and the bump stop.



**AUTODOC recommends:**

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

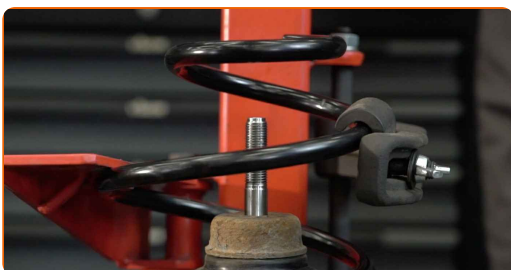
**40** Install the boot and a bump stop onto the shock absorber.



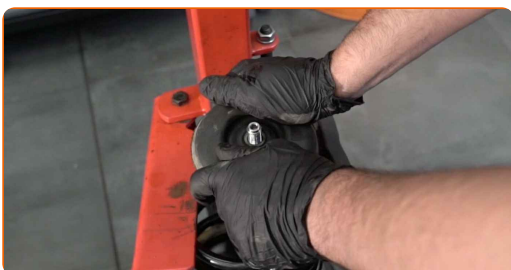
**41** Install the spring on the shock absorber.



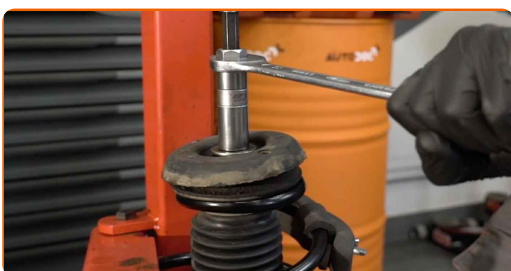
**42** Compress the spring.



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



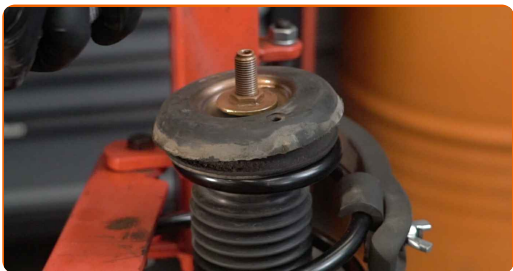
**44** Tighten the shock strut piston rod nut. Use a drive socket #18. Use HEX No.H7. Use a torque wrench. Tighten it to 69 Nm torque.



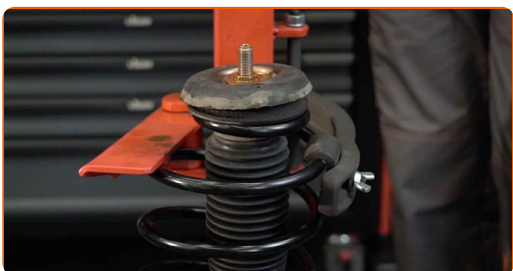
Replacement: coil springs – CITROËN C4 I (LC\_). AUTODOC recommends:

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

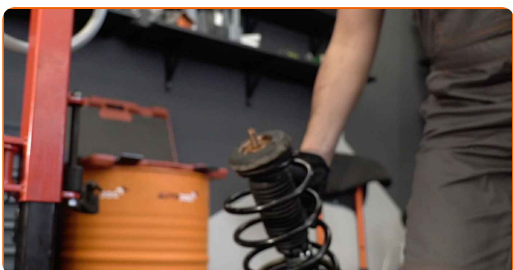
**45** Treat the shock strut rod. Use copper grease.



**46** Decompress the spring.



**47** Remove the assembled shock strut.

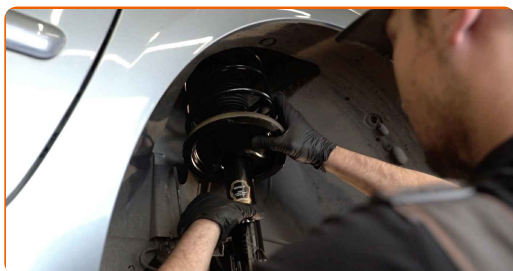


**48** Treat the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.

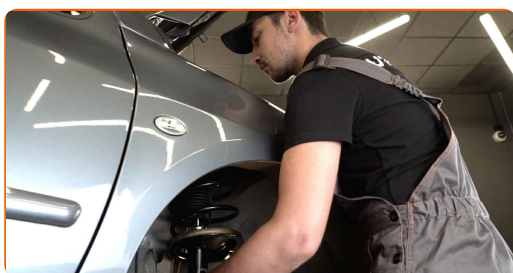




**49** Install the shock strut into the wheel arch.



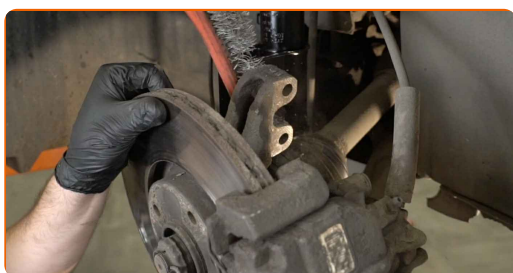
**50** Screw the top fastening of the shock strut mount. Do not tighten it.



Replacement: coil springs – CITROËN C4 I (LC\_). 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.

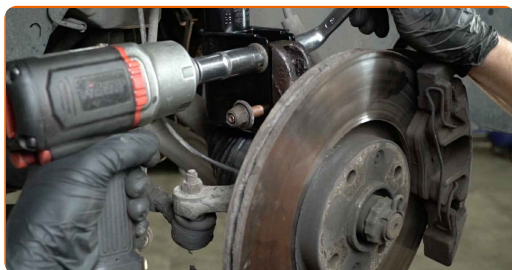


**54** Remove the support from under the steering knuckle.

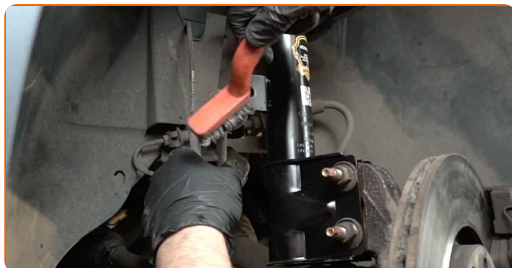
**AUTODOC recommends:**

- Replacement: coil springs – CITROËN C4 I (LC\_). 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.



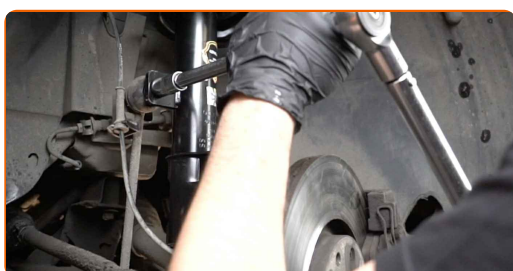
**56** Clean the mounting seats of the stabiliser link. Use a wire brush. Use WD-40 spray.



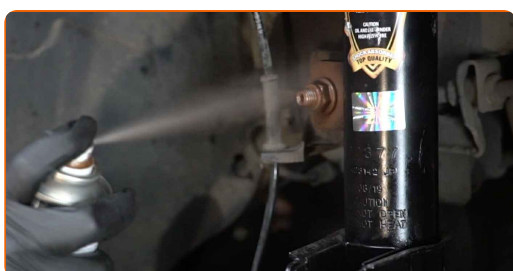
**57** Install the transverse stabilizer link.



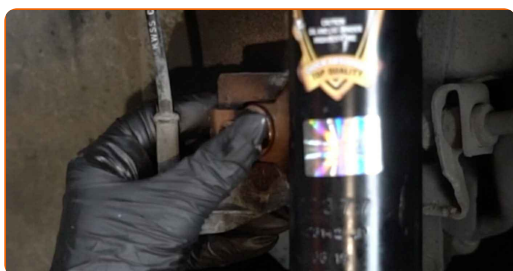
**58** Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #15. Use a torque wrench. Tighten it to 36 Nm torque.



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



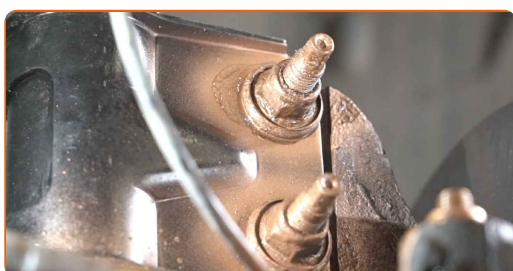
**60** Install the ABS wiring harness bracket.



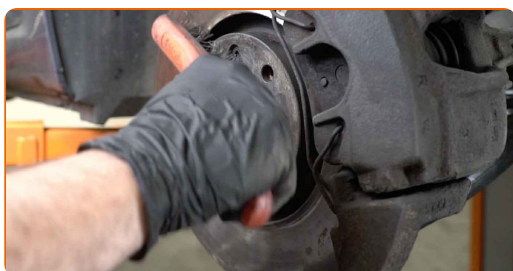
- 61 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 90 Nm torque.



- 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.

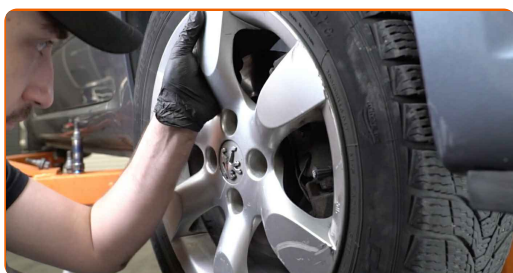


Replacement: coil springs – CITROËN C4 I (LC\_). Tip:

- After applying the spray, wait a few minutes.

66

Install the wheel.



AUTODOC recommends:

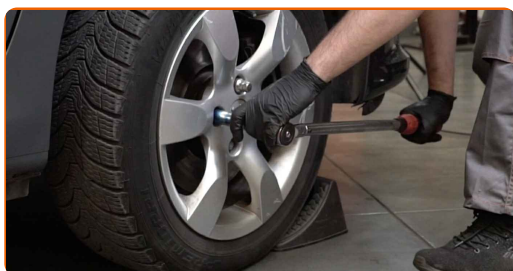
- Important! Hold the wheel while screwing in the fastening bolts. CITROËN C4 I (LC\_)

67

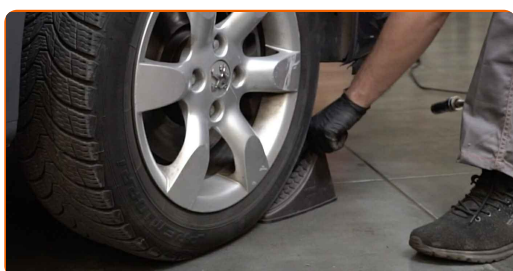
Screw in the wheel bolts. Use wheel impact socket #17.



**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.



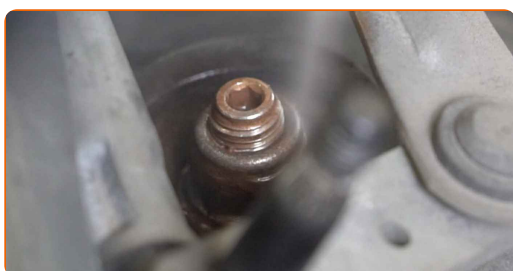
**69** Remove the jacks and chocks.



**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.

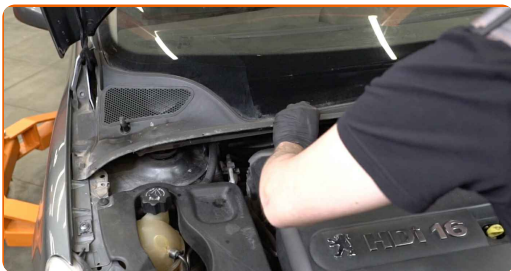


**71** Treat the fasteners of the shock strut mount. Use copper grease.

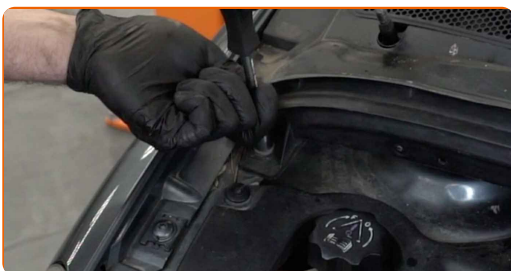




**72** Install and secure the cowl grille.



**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 I (LC\_). 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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