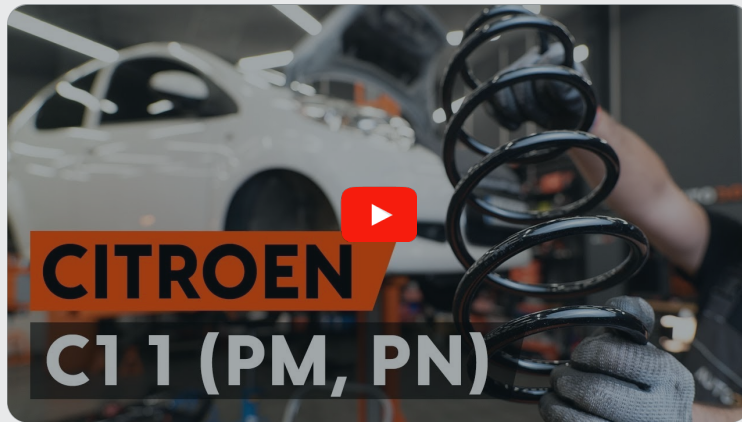




How to change front coil
springs on **Citroen C1 1**
PM PN – replacement
guide

VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:
CITROËN C1 I 1.4 HDi, CITROËN C1 II (PA, PS) 1.0 VTi 68, CITROËN C1 II (PA, PS) 1.2 VTi 82, CITROËN C1 II (PA, PS) 1.0 VTi 72

The steps may slightly vary depending on the car design.

**REPLACEMENT: COIL SPRINGS – CITROEN C1 1 PM PN.
TOOLS YOU MIGHT NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #12
- Combination spanner #17
- Combination spanner #19
- Drive socket # 10
- Drive socket # 12
- Drive socket # 14
- Drive socket # 17
- Drive socket # 30
- HEX bit no.H6.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Tap wrench
- Hammer
- Pin punch
- Flat chisel
- Round-nose pliers
- Clip removal tool
- Chain wrench
- Ball joint puller
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

BUY TOOLS

Replacement: coil springs – Citroen C1 1 PM PN. Tip from AUTODOC:

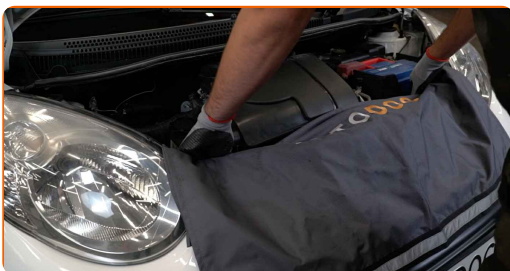
- Both coil springs of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the front suspension.
- Warning! Shut down the engine before starting any work – Citroen C1 1 PM PN.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

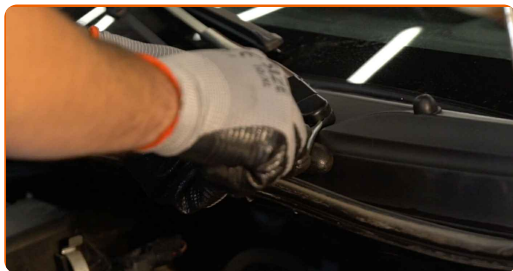
1 Open the bonnet.



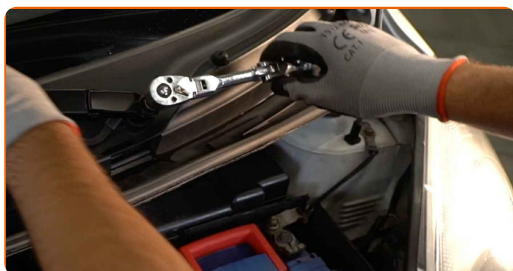
2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



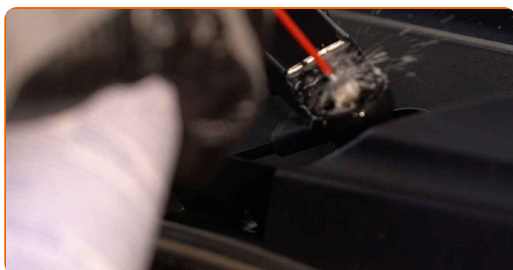
3 Remove the windscreen wiper arm nut covers. Use a clip removal tool.



4 Unscrew the fasteners of the windscreen wiper arms. Use a drive socket #12. Use a ratchet wrench.



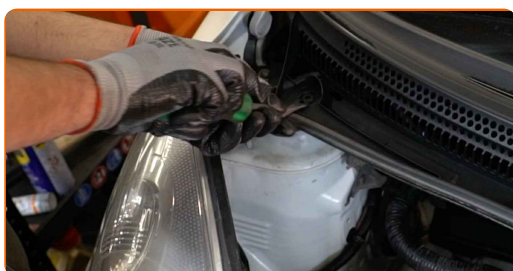
5 Treat the wiper arm fasteners. Use WD-40 spray.



6 Remove the wiper arms.



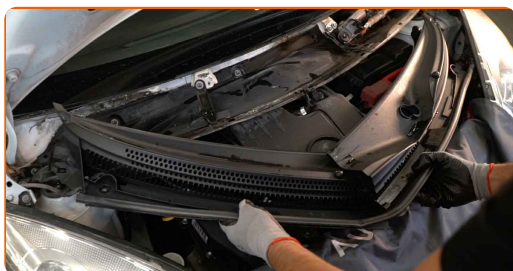
7 Remove the wiper cowl clips. Use a clip removal tool.



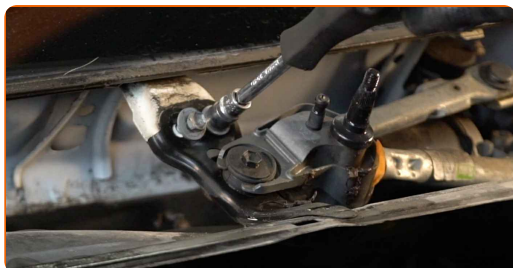
8 Remove the wiper arm covers.



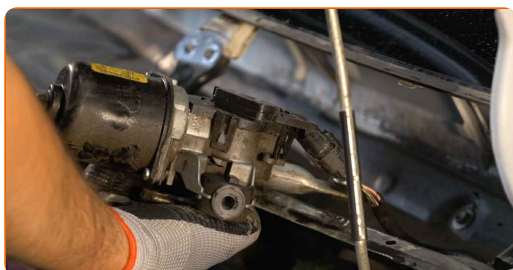
9 Detach the windscreen washer nozzle hose.



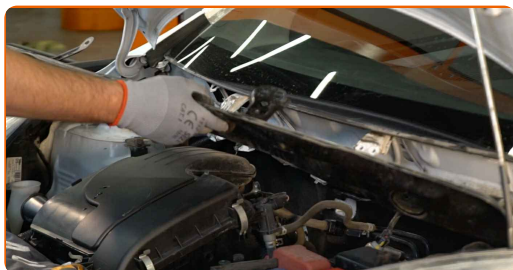
10 Unscrew the fasteners of the windscreen wiper linkage panel. Use a drive socket #10. Use a ratchet wrench.



11 Detach the windscreen wiper connector.

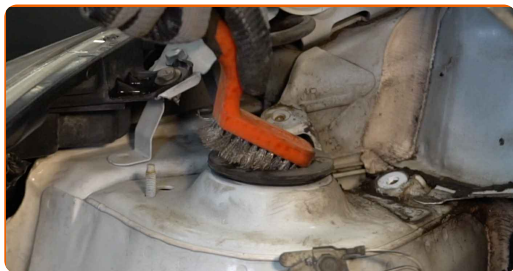


12 Remove the panel assembled with the windscreen wiper linkage.



13

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



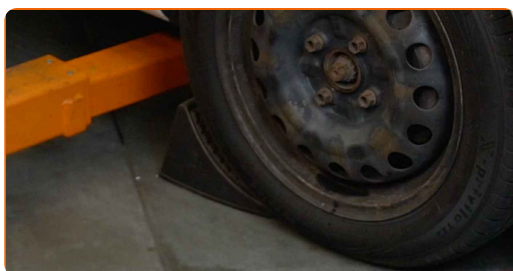
14

Loosen the upper fastener of the shock strut mount. Use HEX No.H6. Use a drive socket #17. Use a ratchet wrench.



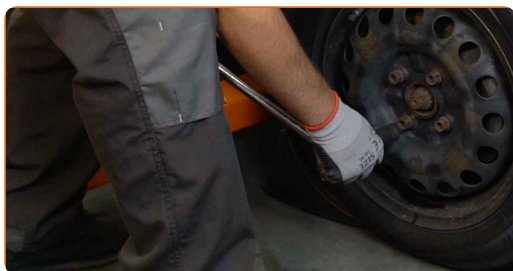
15

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.



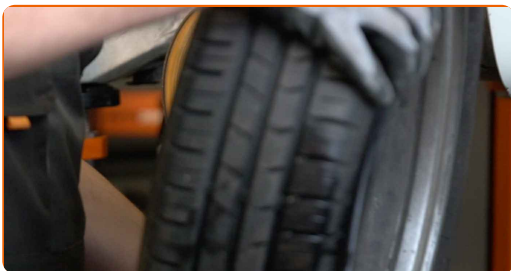
18 Unscrew the wheel bolts.



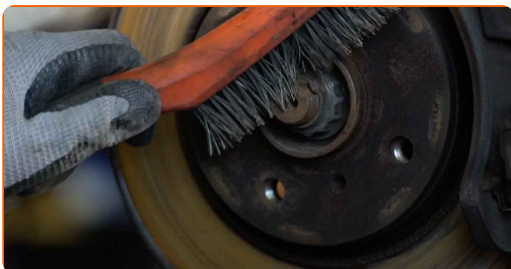
Replacement: coil springs – Citroen C1 1 PM PN. Tip:

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

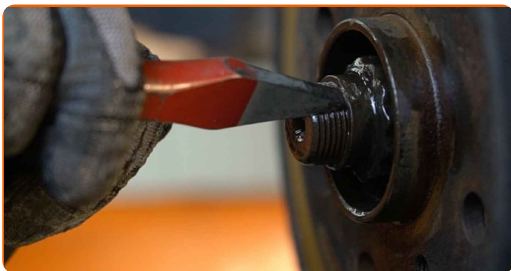
19 Remove the wheel.



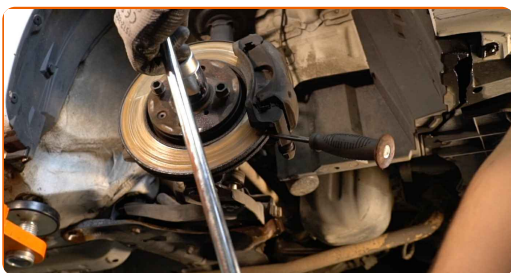
20 Clean the fastener of the driveshaft. Use a wire brush. Use WD-40 spray.



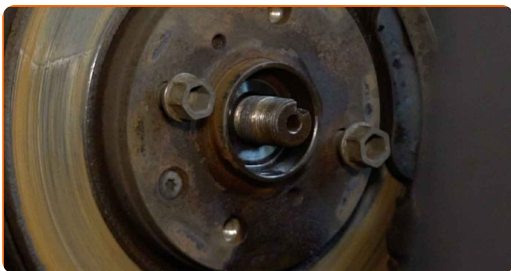
21 Unstake the fastener of the driveshaft. Use a flat metal-working chisel. Use a hammer.



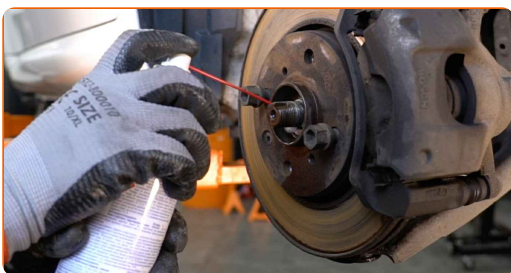
22 Loosen the fastener of the driveshaft. Use a drive socket #30. Use a tap wrench.



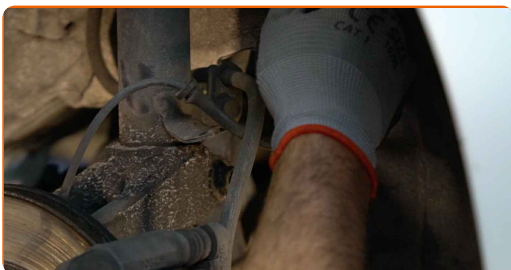
23 Remove the fastening nut. Use a drive socket #30.



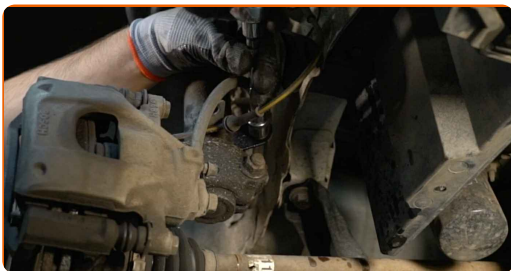
24 Treat the splines of the driveshaft CV joint. Use WD-40 spray.



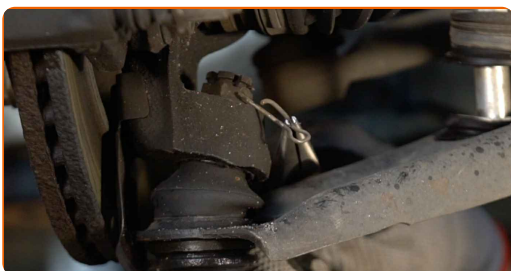
25 Disconnect the ABS sensor wiring.



26 Unscrew the brake hose fastening bracket from the shock strut. Use a drive socket #14. Use a ratchet wrench.



27 Remove the cotter pin. Use round-nose pliers.



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



AUTODOC recommends:

- Replacement: coil springs – Citroen C1 1 PM PN. After applying the spray, wait a few minutes.

29

Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #19.



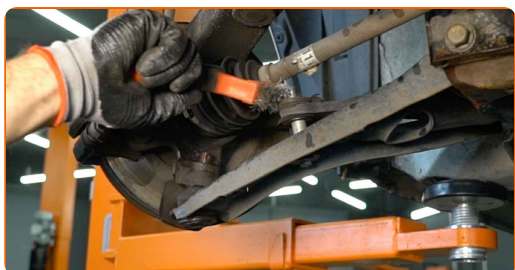
30

Disconnect the lower arm from the steering knuckle. Use a ball joint puller.



31

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



32

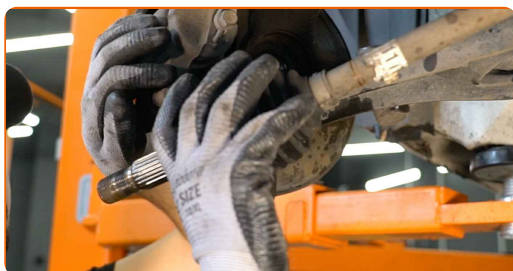
Unscrew the fastener connecting the stabilizer bar with the control arm. Use a combination spanner #12. Use a drive socket #12. Use a ratchet wrench.



33 Disconnect the lower arm from the steering knuckle.



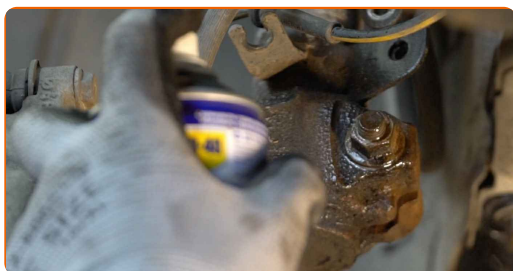
34 Remove the drive shaft. Use a pin punch. Use a hammer.



Replacement: coil springs – Citroen C1 1 PM PN. Tip from AUTODOC:

- Make sure that the drive shaft is not unloaded (when the car is jacked).

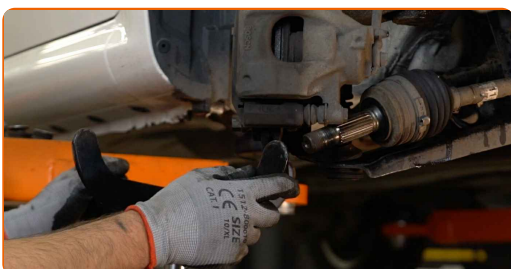
35 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



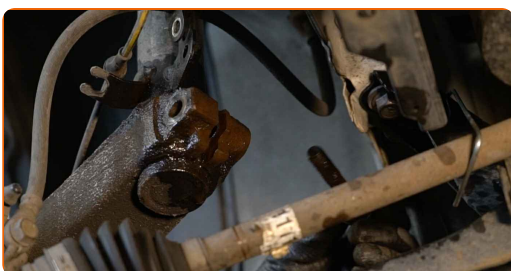
- 36** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.



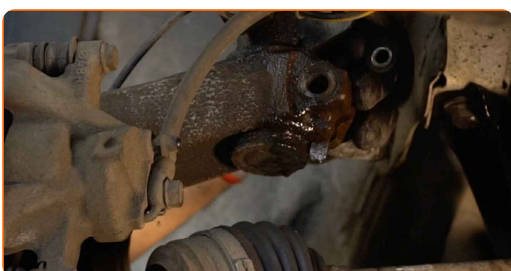
- 37** Prop up the steering knuckle. Use a hydraulic transmission jack.



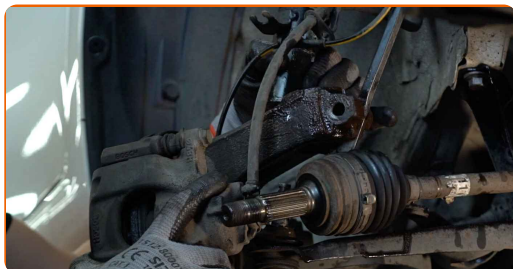
- 38** Remove the fastening bolt.



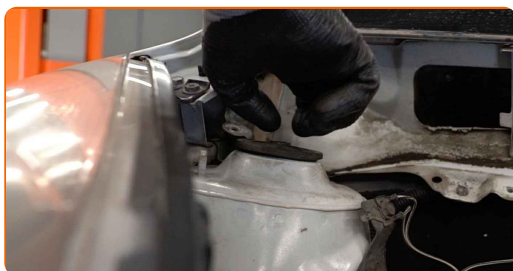
- 39** Release the lower fastener connecting the shock strut to the steering knuckle. Use a flat metal-working chisel. Use a hammer.



40 Disconnect the steering knuckle from the shock absorber strut.



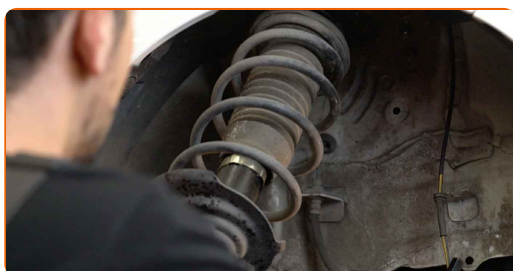
41 Unscrew the top fastening of the shock strut mount.



AUTODOC recommends:

- Citroen C1 1 PM PN – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

42 Remove the suspension strut.



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

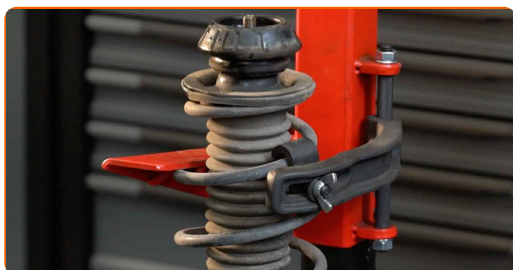


Replacement: coil springs – Citroen C1 1 PM PN. Professionals recommend:

- 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.

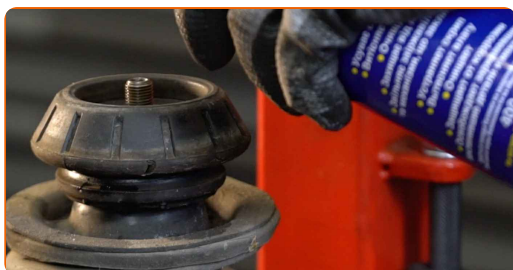
44

Compress the spring.



45

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

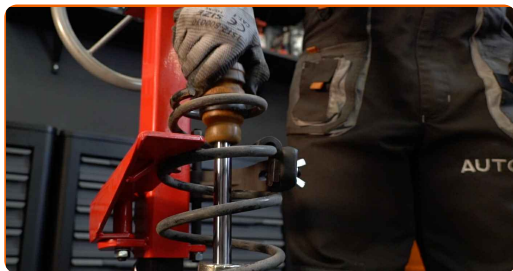


46

Remove the strut piston rod nut. Use HEX No.H6. Use a drive socket #17. Use a ratchet wrench.



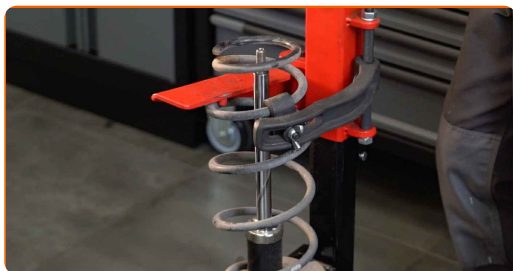
47 Remove the shock absorber mount, boot and bump stop.



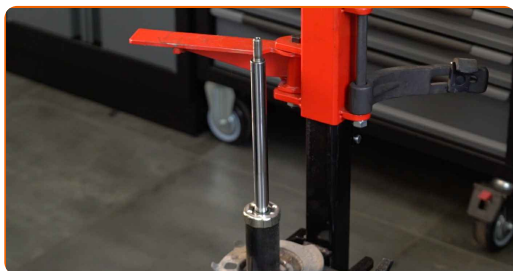
AUTODOC recommends:

- Replacement: coil springs – Citroen C1 1 PM PN. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

48 Release the coil spring.



49 Remove the spring.



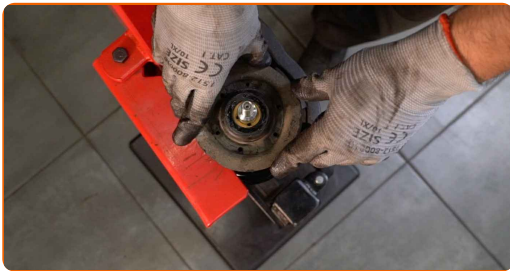
50 Install the spring on the shock absorber.



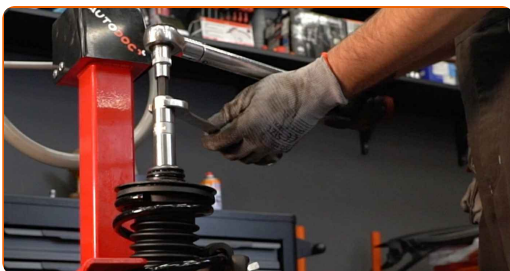
51 Compress the spring.



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



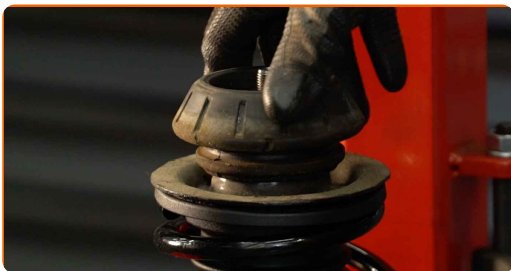
53 Tighten the shock strut piston rod nut. Use HEX No.H6. Use a drive socket #17. Use a chain wrench. Use a torque wrench. Tighten it to 33 Nm torque.



Replacement: coil springs – Citroen C1 1 PM PN. AUTODOC experts recommend:

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

54 Treat the shock strut rod. Use copper grease.



55 Decompress the spring.



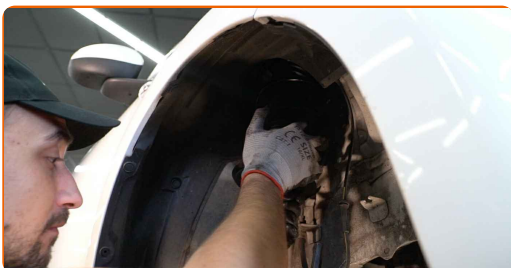
56 Remove the assembled shock strut.



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

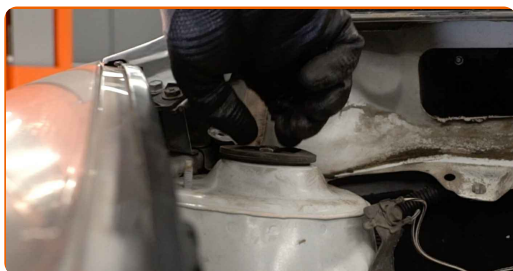


58 Install the shock strut into the wheel arch.



59

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

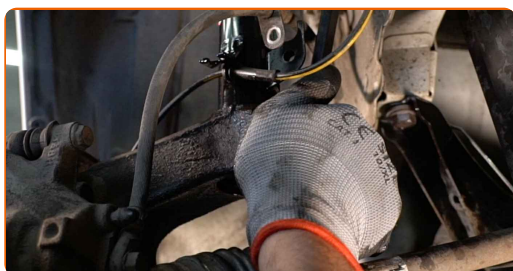


AUTODOC recommends:

- Important! Hold the suspension strut while screwing in the fastening bolts.
Citroen C1 1 PM PN

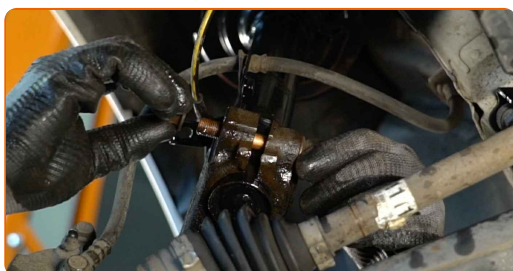
60

Fix the shock absorber strut on the steering knuckle.



61

Install the fastening bolt.



62

Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.



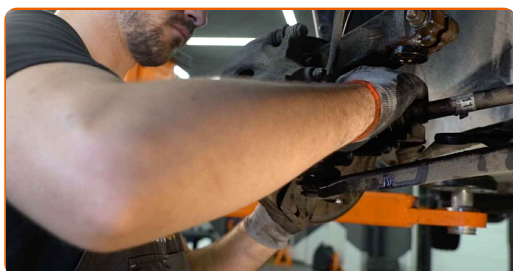
63 Remove the support from under the steering knuckle.



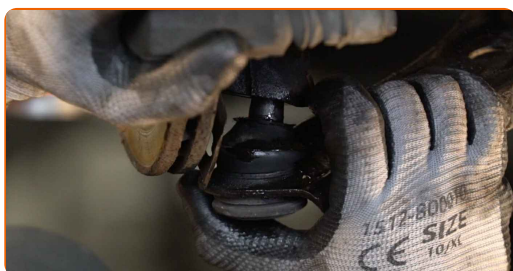
AUTODOC recommends:

- Replacement: coil springs – Citroen C1 1 PM PN. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

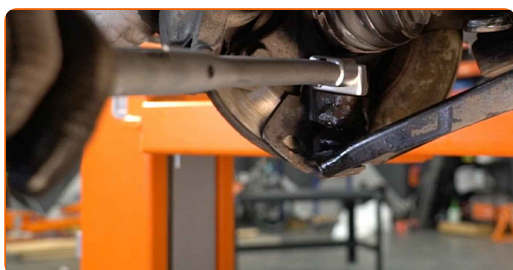
64 Mount the drive shaft into the wheel hub.



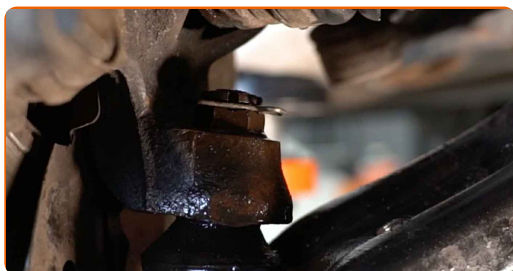
65 Connect the lower arm to the steering knuckle.



66 Tighten the ball joint fastener. Use a combination spanner #19. Use a torque wrench. Tighten it to 98 nm torque.



67 Install the cotter pin. Use round-nose pliers.



68 Screw in the fastener connecting the stabilizer bar to the control arm. Use a combination spanner #12. Use a drive socket #12. Use a ratchet wrench.



69 Support the arm. Use a hydraulic transmission jack.



70 Tighten the fastener connecting the stabilizer bar with the control arm. Use a drive socket #12. Use a torque wrench. Tighten it to 18 Nm torque.



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



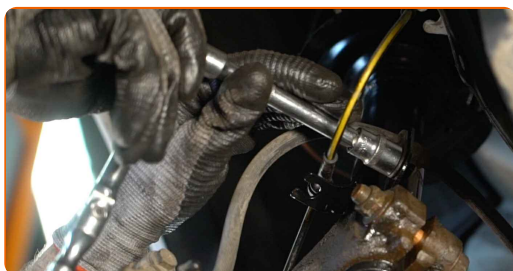
- 72** Remove the support from under the arm.



Replacement: coil springs – Citroen C1 1 PM PN. Tip from AUTODOC experts:

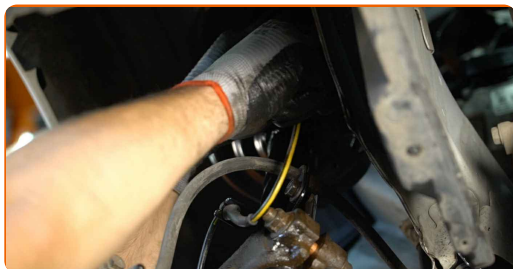
- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

- 73** Tighten the brake hose fastening bracket to the shock strut. Use a drive socket #14. Use a ratchet wrench.



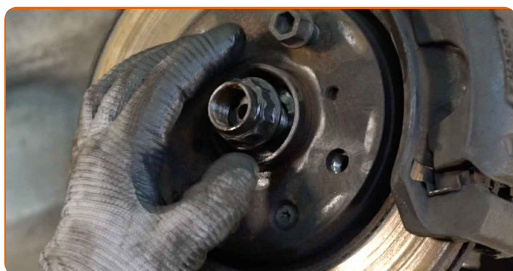
74

Connect the ABS sensor wiring.



75

Install the fastening nut.



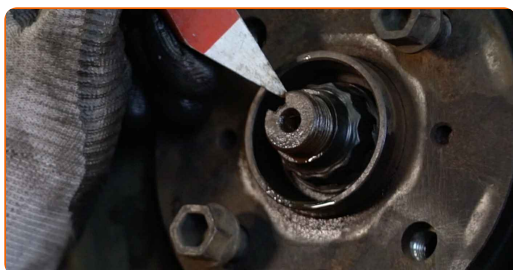
76

Tighten the drive shaft nut. Use a drive socket #30. Use a torque wrench. Tighten it to 216 Nm torque.

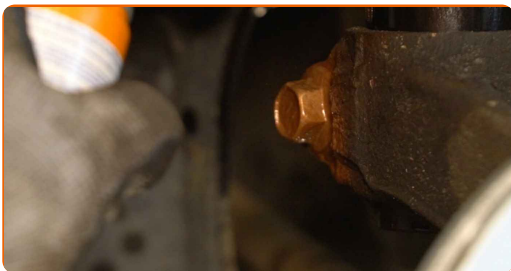


77

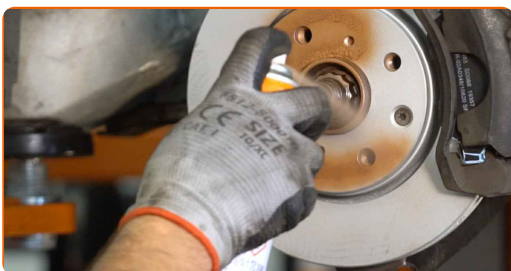
Restake the fastener of the driveshaft. Use a flat metal-working chisel. Use a hammer.



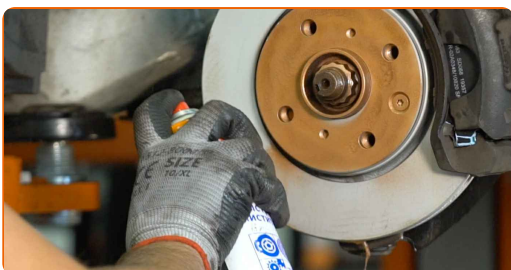
78 Treat the shock strut fasteners. Use copper grease.



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



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



AUTODOC recommends:

- Replacement: coil springs – Citroen C1 1 PM PN. After applying the spray, wait a few minutes.

81 Install the wheel.



Replacement: coil springs – Citroen C1 1 PM PN. Tip from AUTODOC:

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

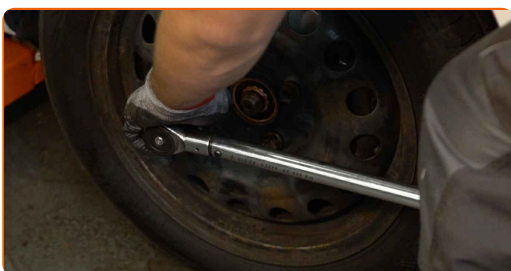
82

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



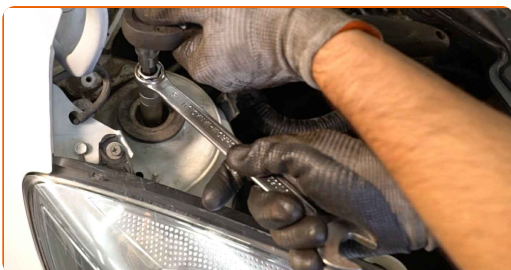
83

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.

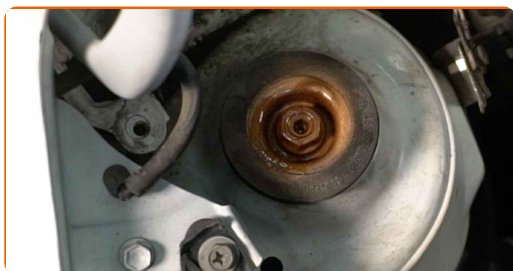


84

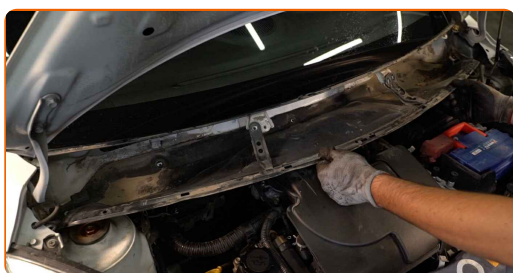
Tighten the upper fastener of the shock absorber strut mount. Use HEX No.H6. Use a drive socket #17. Use a torque wrench. Tighten it to 33 Nm torque.



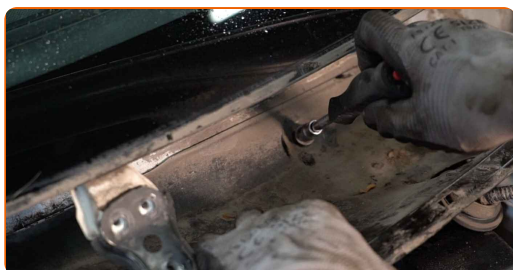
85 Treat the fasteners of the shock strut mount. Use copper grease.



86 Install the panel assembled with the windscreen wiper linkage.



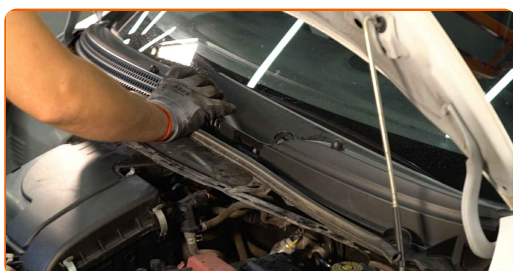
87 Screw in the fasteners of the windscreen wiper linkage panel. Use a drive socket #10. Use a ratchet wrench.



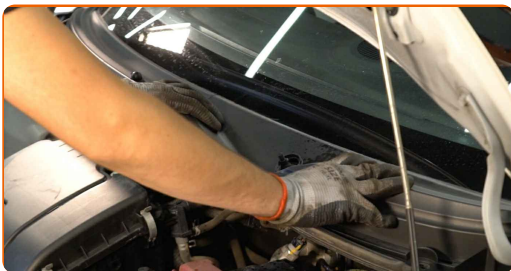
88 Attach the windscreen wiper connector.



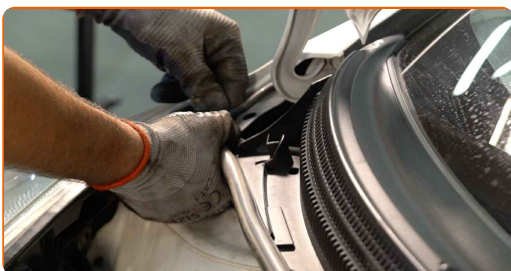
89 Install the wiper arm covers.



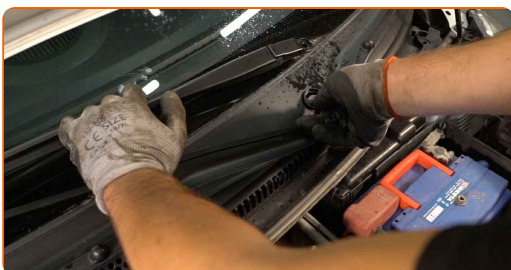
90 Install the wiper cowl clips.



91 Attach the windscreen washer nozzle hose.



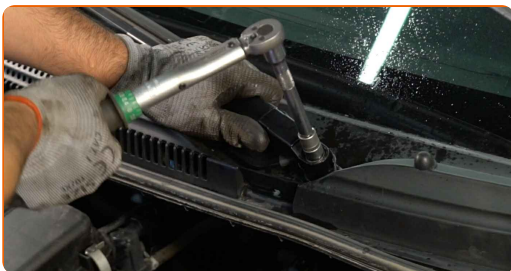
92 Reinstall the wiper arms.



Replacement: coil springs – Citroen C1 1 PM PN. AUTODOC recommends:

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

93 Tighten the fasteners of the wiper arms. Use a drive socket #12. Use a torque wrench. Tighten it to 18 Nm torque.



94 Install the nut covers of the windscreen wiper arms.



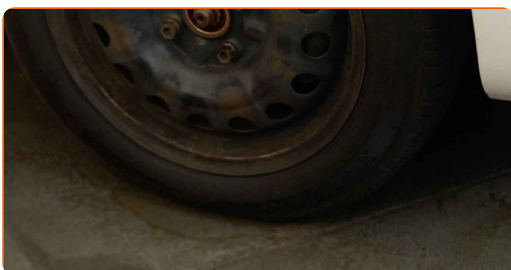
95 Remove the fender protection cover.



96 Close the hood.



97 Remove the jacks and chocks.



WELL DONE! 

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