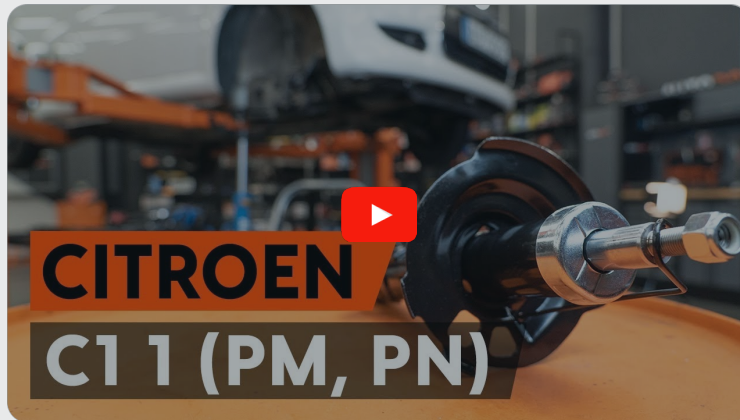




How to change front  
suspension strut on  
**Citroen C11 PM PN** –  
replacement guide

## VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:  
CITROËN C1 (PM\_, PN\_) 1.4 HDi

The steps may slightly vary depending on the car design.

**REPLACEMENT: SUSPENSION STRUT – CITROEN C1 1  
PM PN. LIST OF THE TOOLS YOU'LL 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: suspension strut – Citroen C1 1 PM PN. Professionals 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 – CITROEN C1 1 PM PN. USE THE FOLLOWING PROCEDURE:**

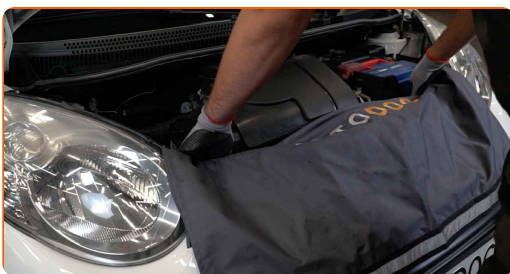
1

Open the bonnet.

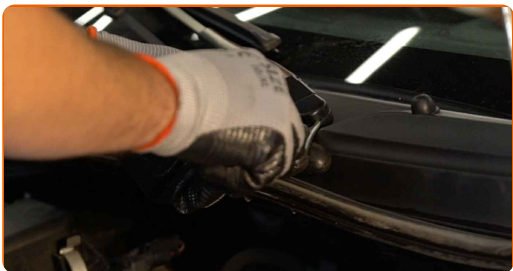


2

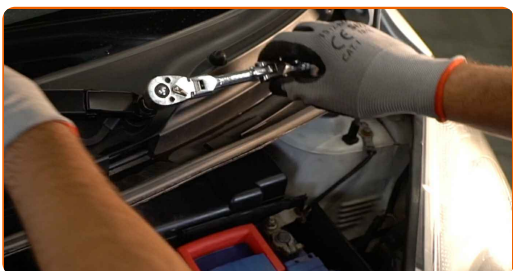
Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



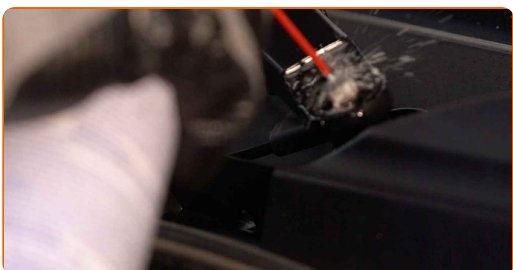
**3** Remove the windscreen wiper arm nut covers. Use a clip removal tool.



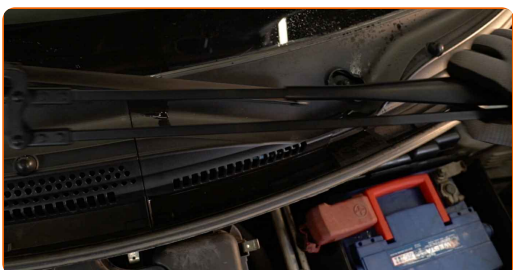
**4** Unscrew the fasteners of the windscreen wiper arms. Use a drive socket #12. Use a ratchet wrench.



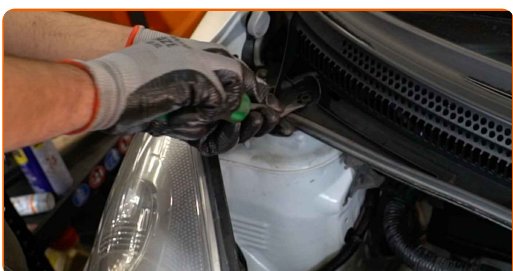
**5** Treat the wiper arm fasteners. Use WD-40 spray.



**6** Remove the wiper arms.



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

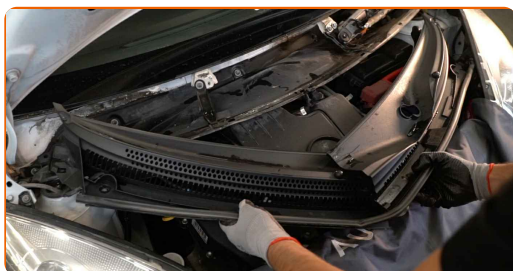


**8**

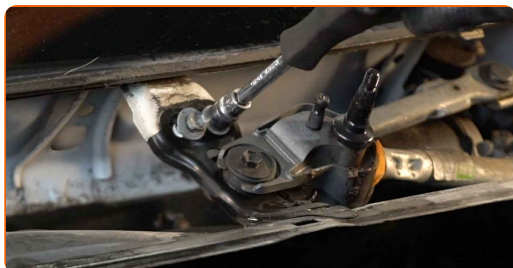
Remove the wiper arm covers.

**9**

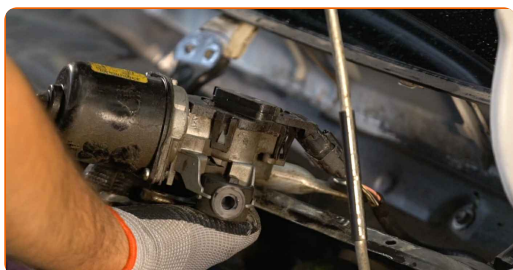
Detach the windscreen washer nozzle hose.

**10**

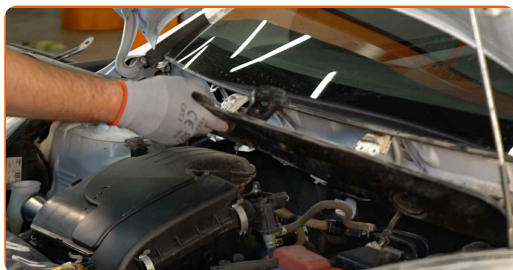
Unscrew the fasteners of the windscreen wiper linkage panel. Use a drive socket #10. Use a ratchet wrench.

**11**

Detach the windscreen wiper connector.

**12**

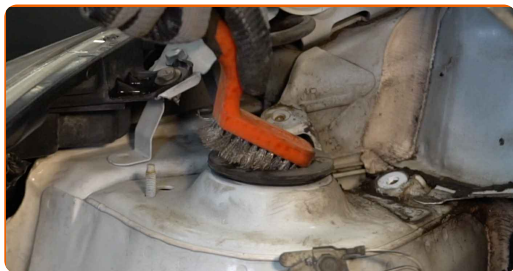
Remove the panel assembled with the windscreen wiper linkage.





13

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



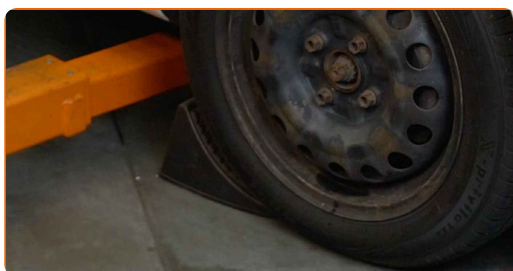
14

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



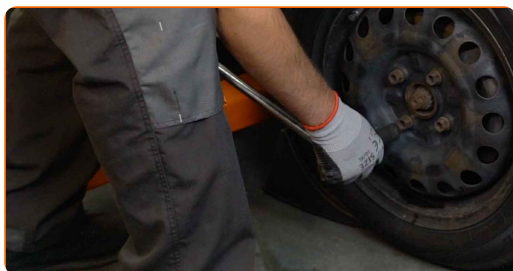
15

Secure the wheels with chocks.

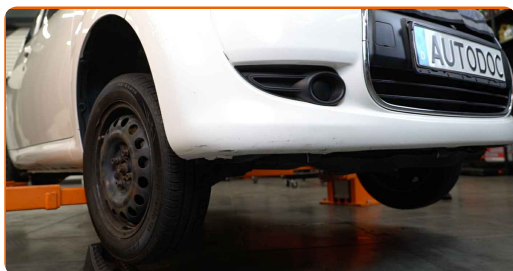


16

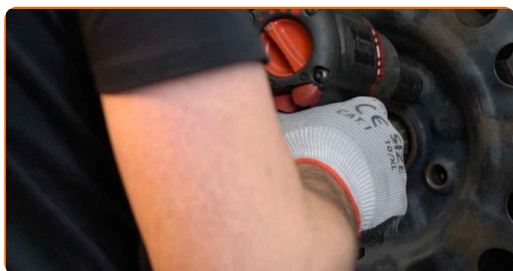
Loosen the wheel mounting bolts. Use wheel impact socket #17.



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



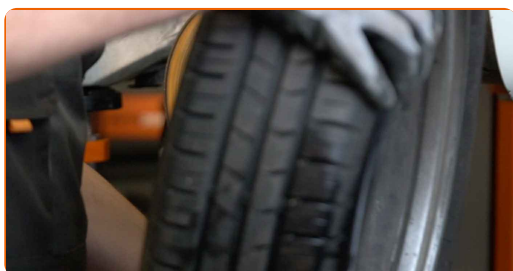
**18** Unscrew the wheel bolts.



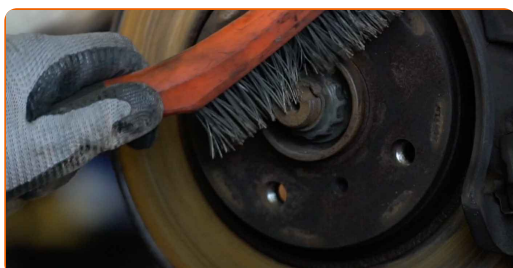
**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
Citroen C1 1 PM PN

**19** Remove the wheel.

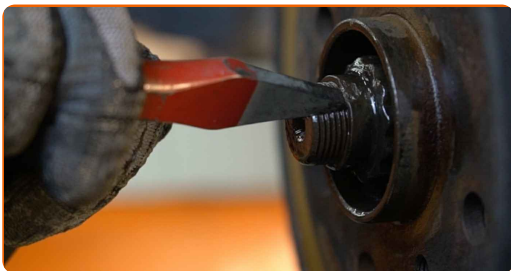


**20** Clean the fastener of the driveshaft. Use a wire brush. Use WD-40 spray.

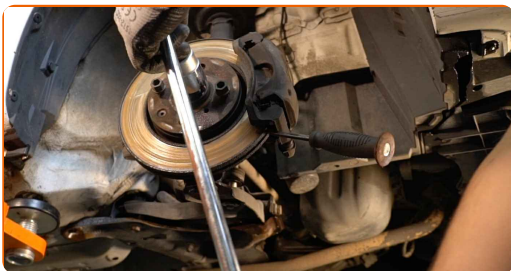




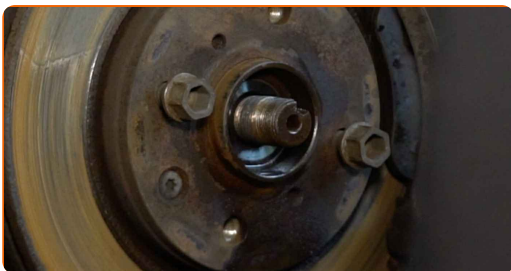
**21** Unstake the fastener of the driveshaft. Use a flat metal-working chisel. Use a hammer.



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



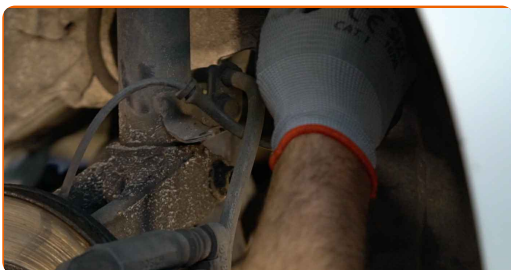
**23** Remove the fastening nut. Use a drive socket #30.



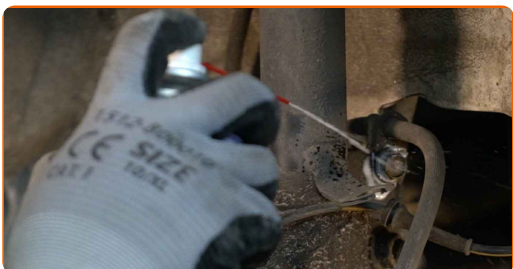
**24** Treat the splines of the driveshaft CV joint. Use WD-40 spray.



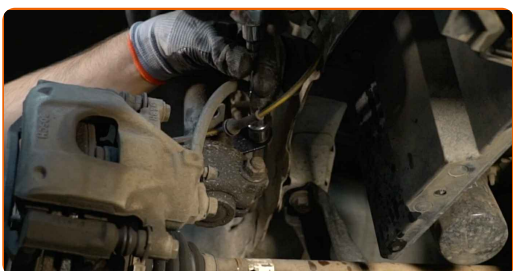
**25** Disconnect the ABS sensor wiring.



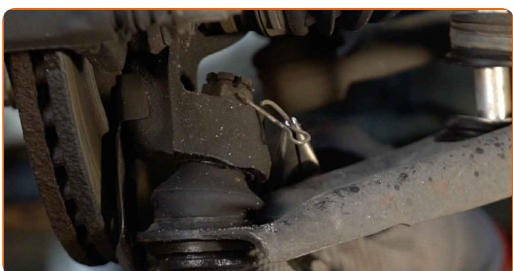
- 26** Clean the fastener of the bracket that connects the brake hose to the shock strut. Use a wire brush. Use WD-40 spray.



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



- 28** Remove the cotter pin. Use round-nose pliers.



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



Replacement: suspension strut – Citroen C1 1 PM PN. AUTODOC recommends:

- After applying the spray, wait a few minutes.

30

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



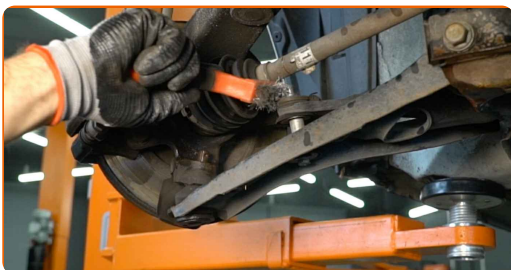
31

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



32

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



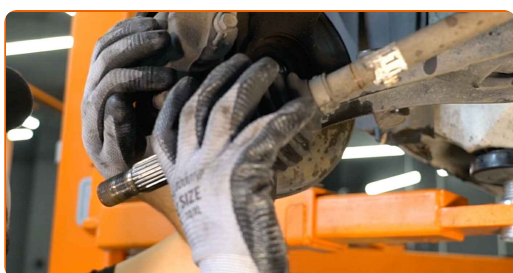
- 33** Unscrew the fastener connecting the stabilizer bar with the control arm. Use a combination spanner #12. Use a drive socket #12. Use a ratchet wrench.



- 34** Disconnect the lower arm from the steering knuckle.



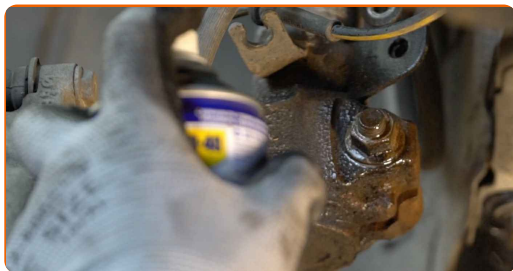
- 35** Remove the drive shaft. Use a pin punch. Use a hammer.



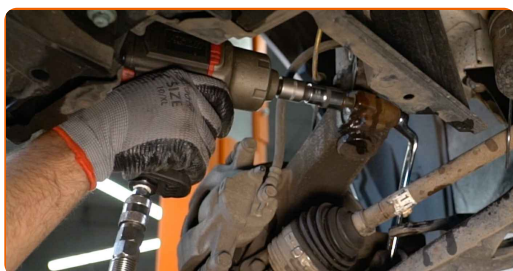
Replacement: suspension strut – Citroen C1 1 PM PN. Tip from AUTODOC experts:

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

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



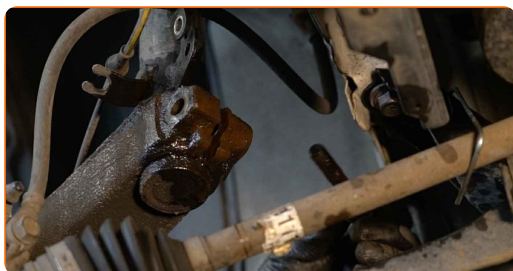
**37** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.



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

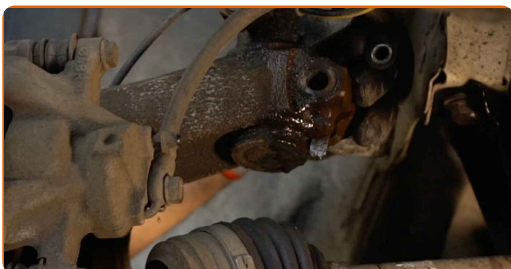


**39** Remove the fastening bolt.

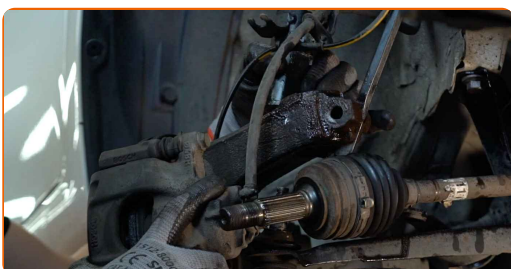




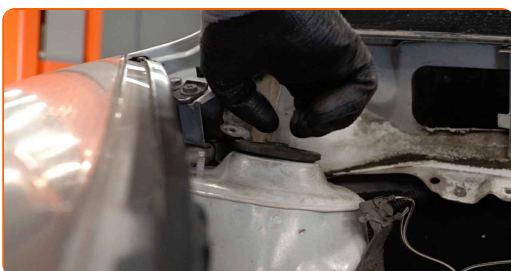
- 40 Release the lower fastener connecting the shock strut to the steering knuckle. Use a flat metal-working chisel. Use a hammer.



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



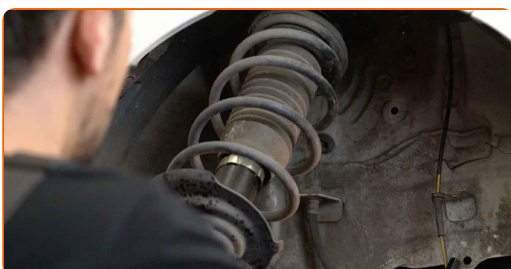
- 42 Unscrew the top fastening of the shock strut mount.



Replacement: suspension strut – Citroen C1 1 PM PN. Tip:

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

- 43 Remove the suspension strut.





**44**

Set the shock absorber strut on the spring compressor tool.

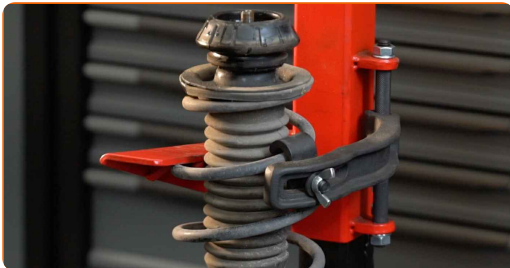


**Replacement: suspension strut – Citroen C1 1 PM PN. AUTODOC experts recommend:**

- 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.

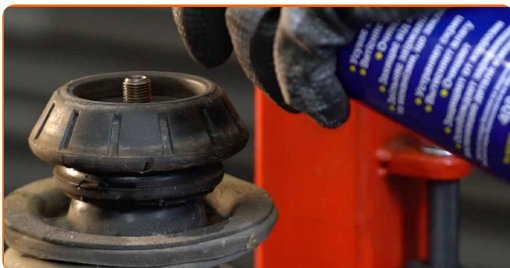
**45**

Compress the spring.



**46**

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



47

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



48

Remove the shock absorber mount, boot and bump stop.



**AUTODOC recommends:**

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

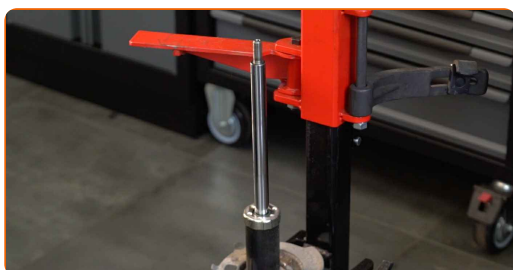
49

Release the coil spring.



50

Remove the spring.



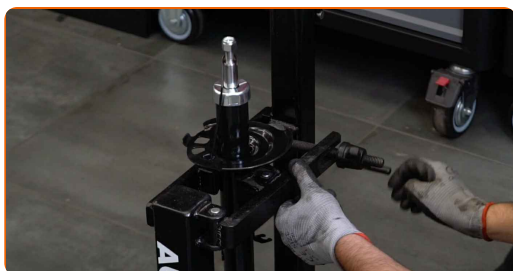
**51** Remove the old shock absorber from the hydraulic coil spring compressor.



Replacement: suspension strut – Citroen C1 1 PM PN. AUTODOC experts recommend:

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

**52** Install the new shock absorber on the hydraulic coil spring compressor.



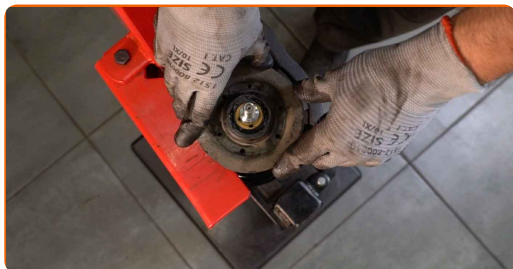
**53** Install the spring on the shock absorber.



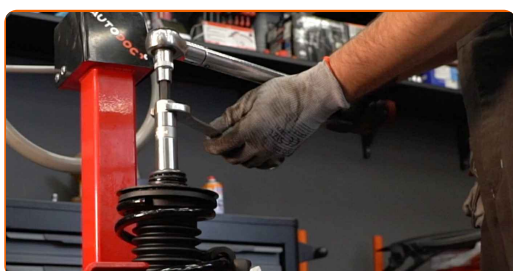
**54** Compress the spring.



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



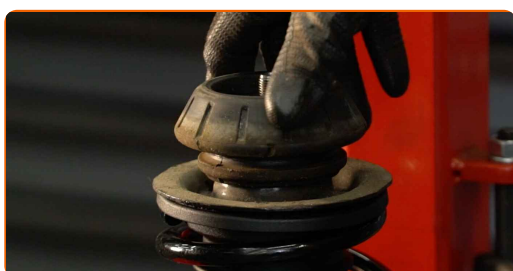
**56** Tighten the shock strut piston rod nut. Use HEX No.H6. Use a drive socket #17. Use a chain wrench. Use a torque wrench. Tighten it to 33 Nm torque.



**Replacement: suspension strut – Citroen C1 1 PM PN. Tip:**

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

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



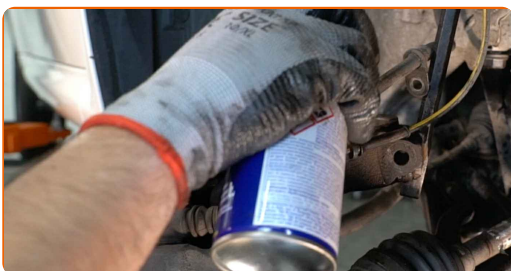
**58** Decompress the spring.



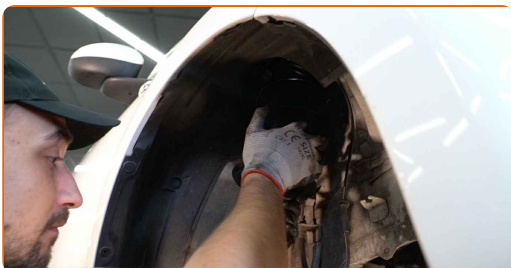
**59** Remove the assembled shock strut.



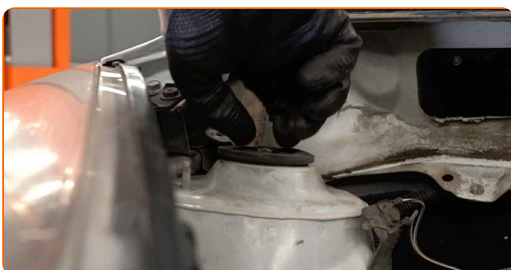
**60** Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



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



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

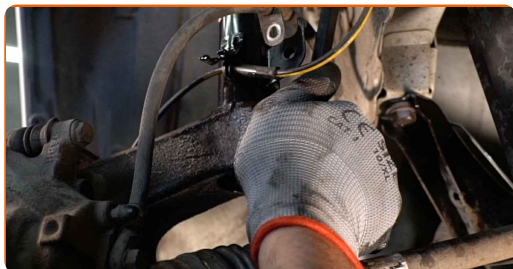


**AUTODOC recommends:**

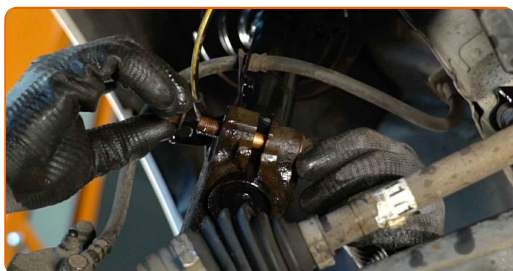
- Important! Hold the suspension strut while screwing in the fastening bolts.  
Citroen C1 1 PM PN



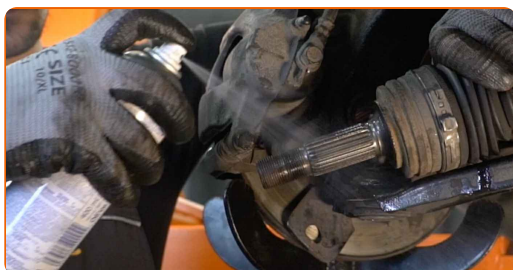
**63** Fix the shock absorber strut on the steering knuckle.



**64** Install the fastening bolt.



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



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

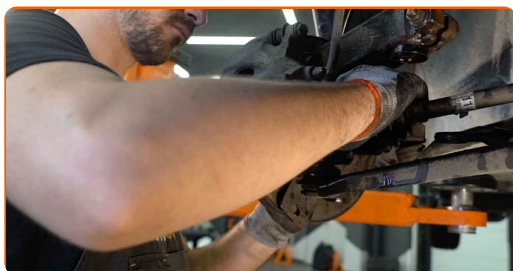


**AUTODOC recommends:**

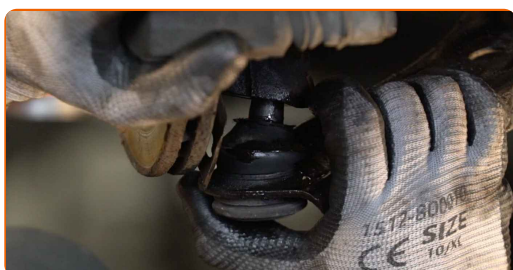
- Replacement: suspension strut – Citroen C1 1 PM PN. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.



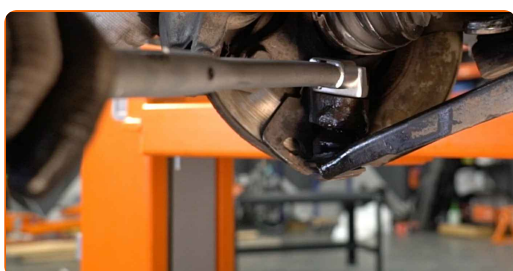
**67** Mount the drive shaft into the wheel hub.



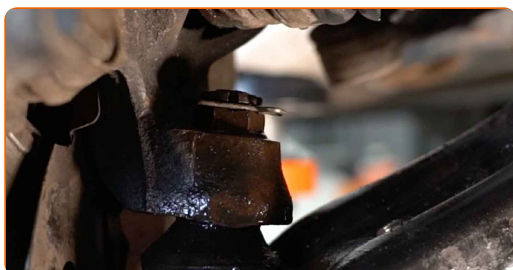
**68** Connect the lower arm to the steering knuckle.



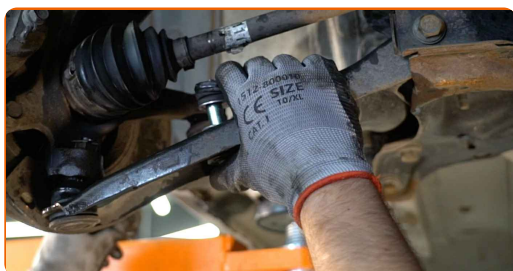
**69** Tighten the ball joint fastener. Use a combination spanner #19. Use a torque wrench. Tighten it to 98 nm torque.



**70** Install the cotter pin. Use round-nose pliers.



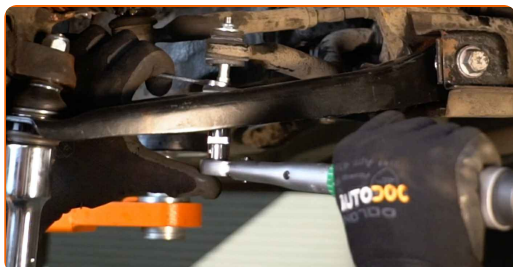
- 71** Screw in the fastener connecting the stabilizer bar to the control arm. Use a combination spanner #12. Use a drive socket #12. Use a ratchet wrench.



- 72** Support the arm. Use a hydraulic transmission jack.



- 73** 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.



- 74** 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.



75

Remove the support from under the arm.

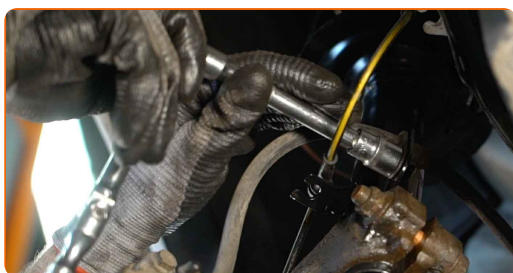


Replacement: suspension strut – Citroen C1 1 PM PN. Tip from AUTODOC experts:

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

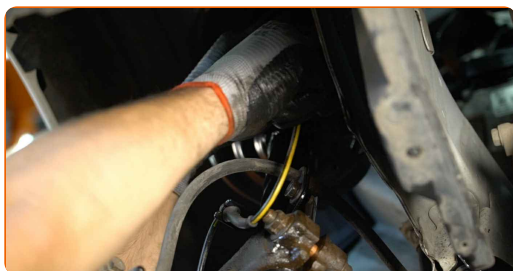
76

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

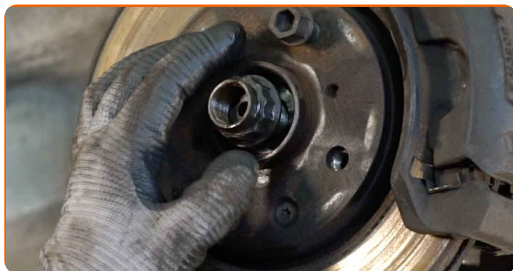


77

Connect the ABS sensor wiring.



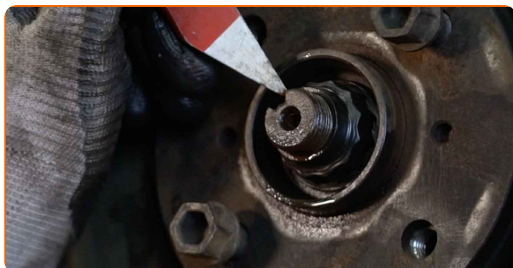
**78** Install the fastening nut.



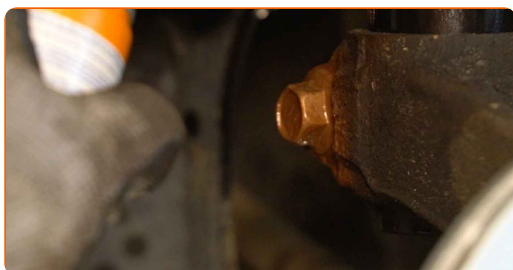
**79** Tighten the drive shaft nut. Use a drive socket #30. Use a torque wrench. Tighten it to 216 Nm torque.



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

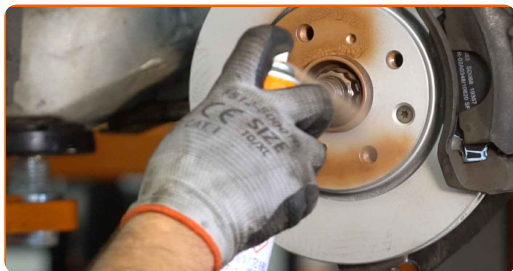


**81** Treat the shock strut fasteners. Use copper grease.



82

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



83

Clean the brake disk surface. Use a brake cleaner.

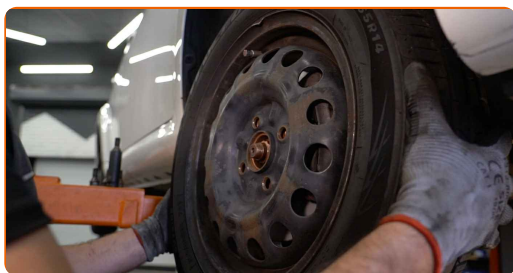


Replacement: suspension strut – Citroen C1 1 PM PN. Tip from AUTODOC:

- After applying the spray, wait a few minutes.

84

Install the wheel.

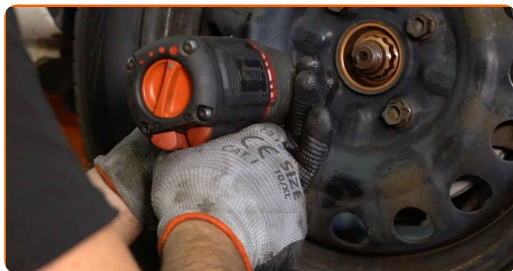


AUTODOC recommends:

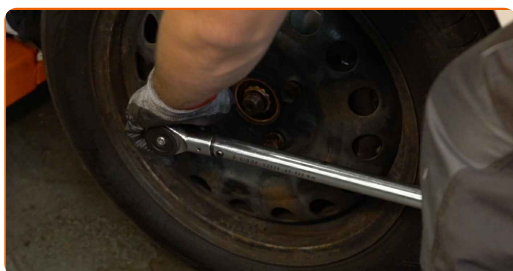
- Important! Hold the wheel while screwing in the fastening bolts. Citroen C1 1 PM PN



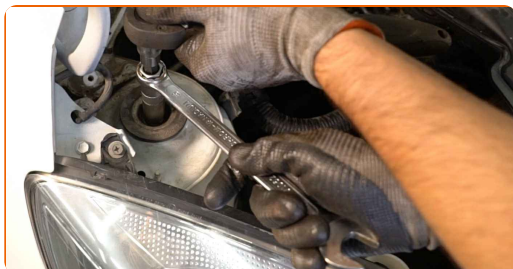
**85** Screw in the wheel bolts. Use wheel impact socket #17.



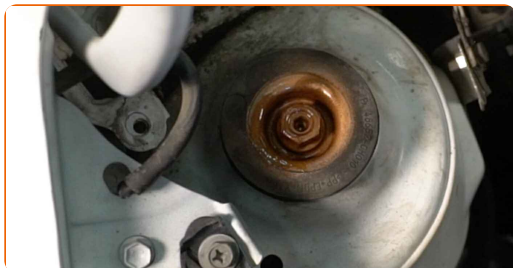
**86** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 100 nm torque.



**87** 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.

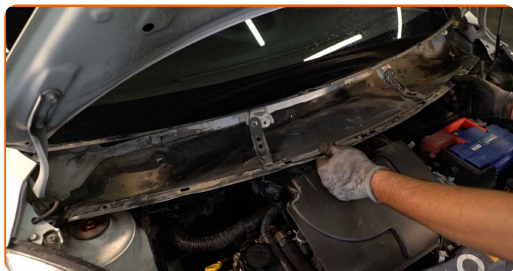


**88** Treat the fasteners of the shock strut mount. Use copper grease.

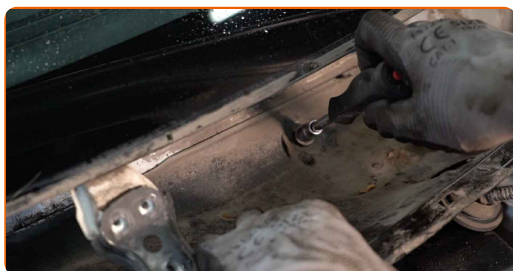




**89** Install the panel assembled with the windscreen wiper linkage.



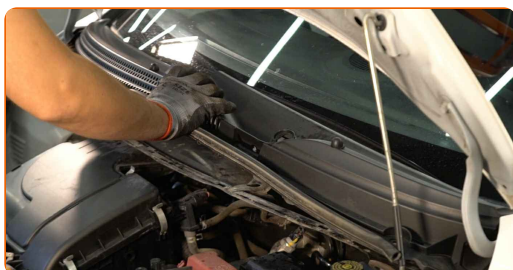
**90** Screw in the fasteners of the windscreen wiper linkage panel. Use a drive socket #10. Use a ratchet wrench.



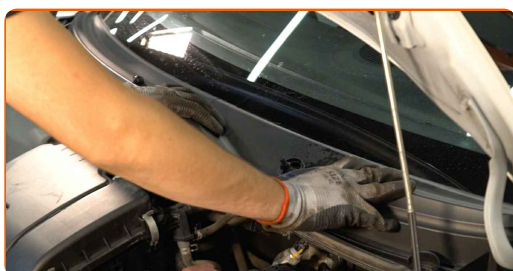
**91** Attach the windscreen wiper connector.



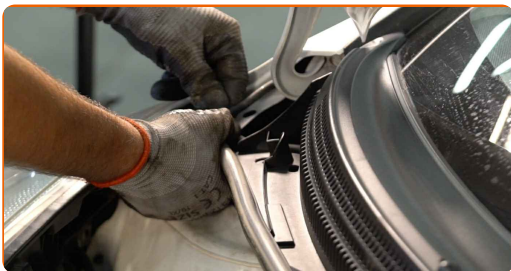
**92** Install the wiper arm covers.



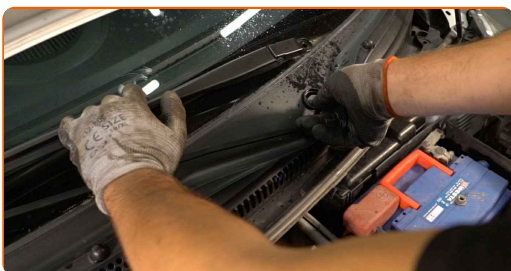
**93** Install the wiper cowl clips.



**94** Attach the windscreen washer nozzle hose.



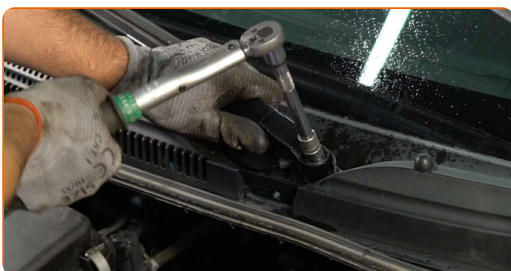
**95** Reinstall the wiper arms.



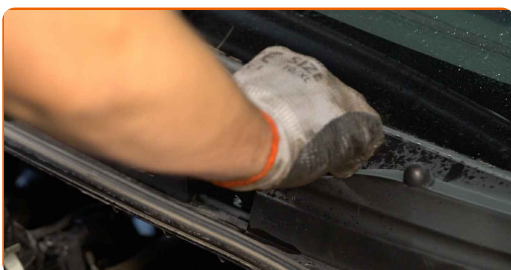
Replacement: suspension strut – Citroen C1 1 PM PN. Professionals recommend:

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

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



**97** Install the nut covers of the windscreen wiper arms.



98

Remove the fender protection cover.



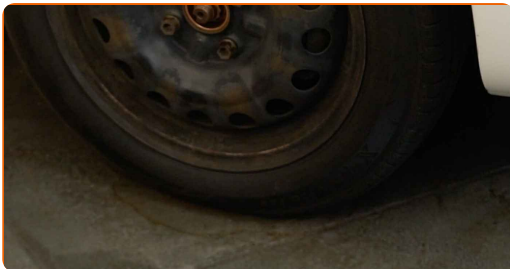
99

Close the hood.



100

Remove the jacks and chocks.



**WELL DONE!** 

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