



How to change front
suspension strut on
Peugeot 107 PM PN –
replacement guide

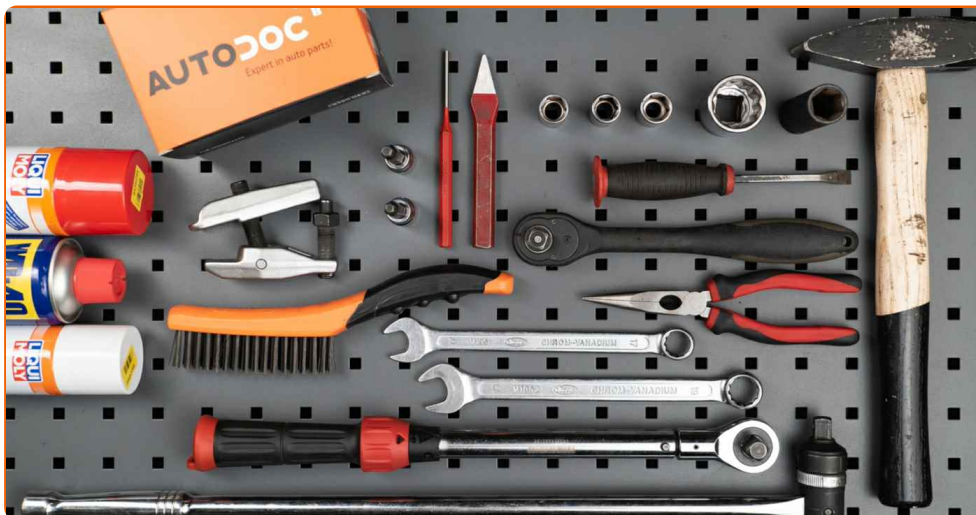
VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:
PEUGEOT 107 Hatchback (PM, PN) 1.4 HDi

The steps may slightly vary depending on the car design.

**REPLACEMENT: SUSPENSION STRUT – PEUGEOT 107
PM PN. TOOLS YOU NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #10
- 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
- Flat Screwdriver
- Crow bar
- Clip removal tool
- Chain wrench
- Ball joint puller
- Hydraulic transmission jack
- Hydraulic strut spring compressor
- Fender cover
- Wheel chock

BUY TOOLS

Replacement: suspension strut – Peugeot 107 PM PN. 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 – PEUGEOT 107 PM PN. RECOMMENDED SEQUENCE OF STEPS:

1

Open the bonnet.



2

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

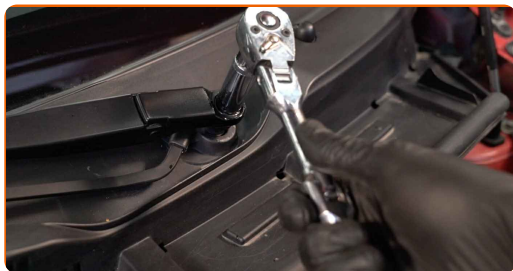


3

Remove the windscreen wiper arm nut covers.



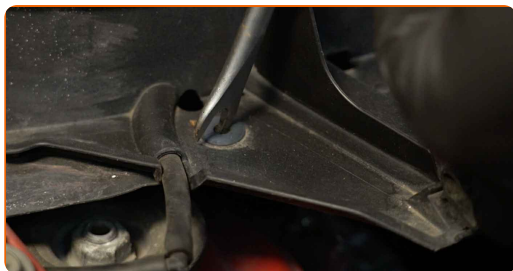
4 Unscrew the fasteners of the windscreen wiper arms. Use a drive socket #12. Use a ratchet wrench.



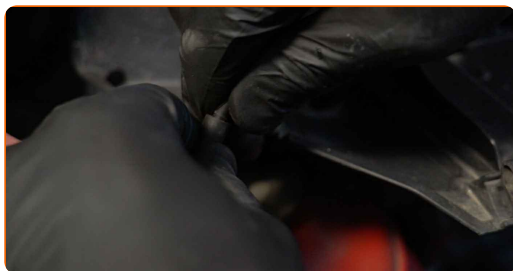
5 Remove the wiper arms.



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



7 Detach the windscreen washer nozzle hose.

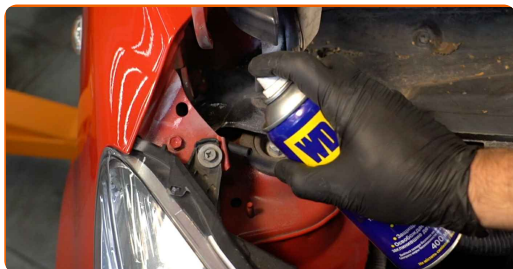


8 Remove the wiper arm covers.



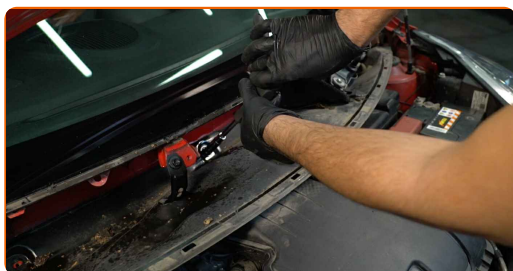
9

Treat the fasteners of the windscreen wiper linkage panel. Use WD-40 spray.



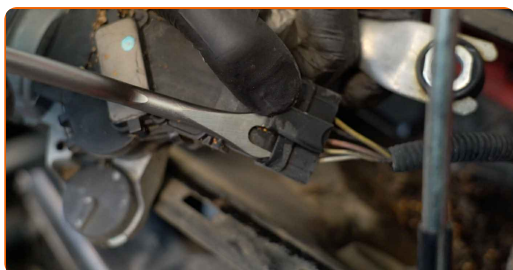
10

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



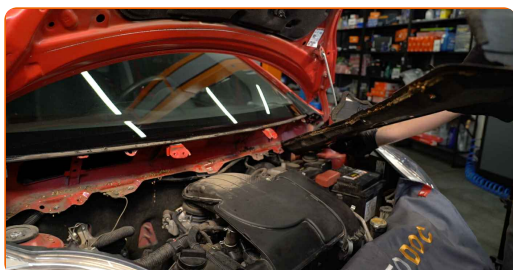
11

Detach the windscreen wiper connector. Use a flat screwdriver.



12

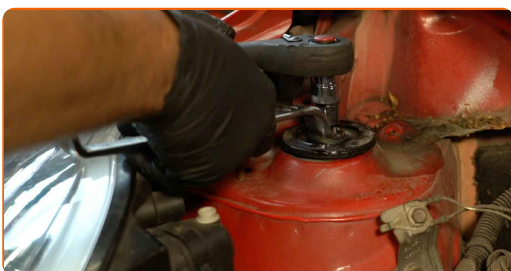
Remove the panel assembled with the windscreen wiper linkage.



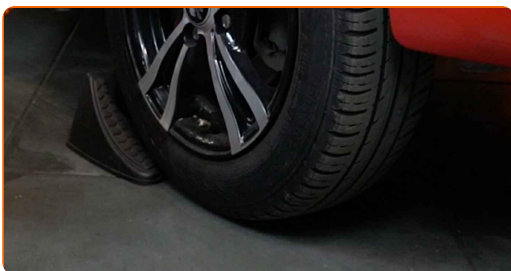
13 Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.



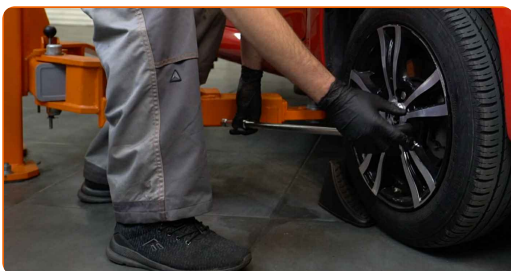
14 Loosen the upper fastener of the shock strut mount. Use HEX No.H6. Use a drive socket #17. Use a ratchet wrench.



15 Secure the wheels with chocks.



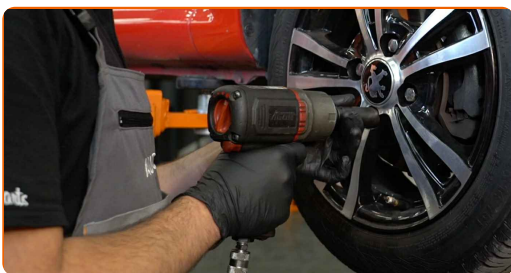
16 Loosen the wheel mounting bolts. Use wheel impact socket #17.



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



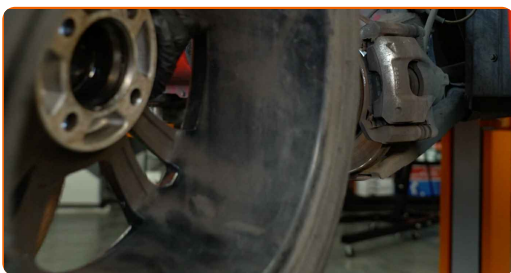
18 Unscrew the wheel bolts.



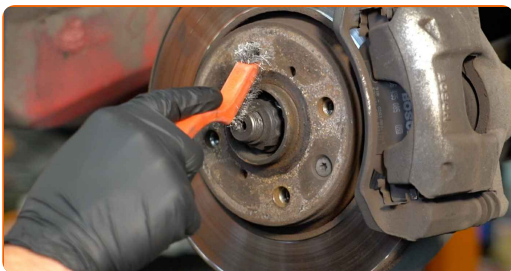
Replacement: suspension strut – Peugeot 107 PM PN. Tip:

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

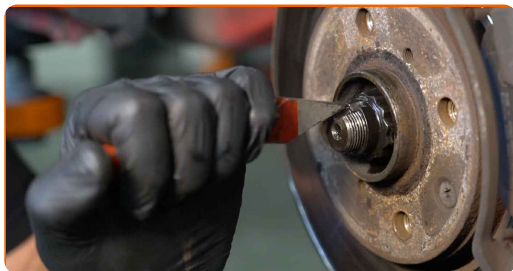
19 Remove the wheel.



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



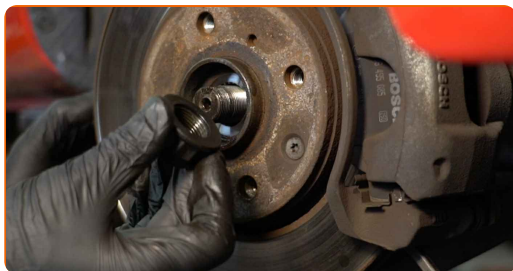
21 Unstake the fastener of the driveshaft. Use a flat metal-working chisel. Use a hammer.



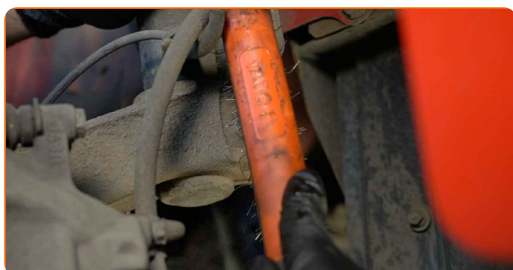
22 Loosen the fastener of the driveshaft. Use a drive socket #30. Use a tap wrench.



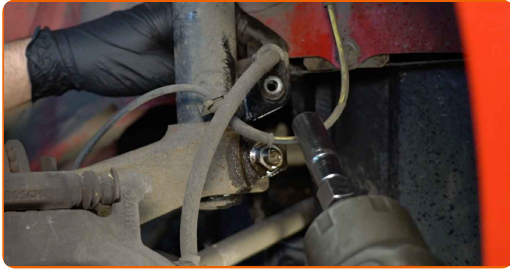
23 Remove the fastening nut. Use a drive socket #30.



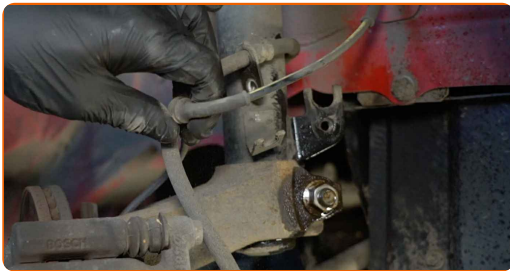
24 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



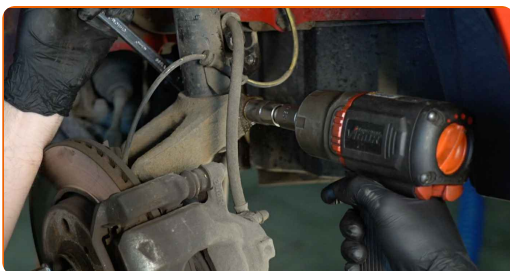
25 Unscrew the brake hose fastening bracket from the shock strut. Use a drive socket #14. Use a ratchet wrench.



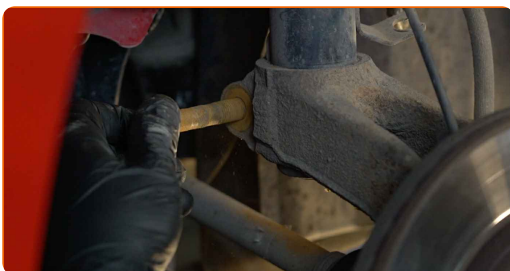
26 Disconnect the ABS sensor wiring.



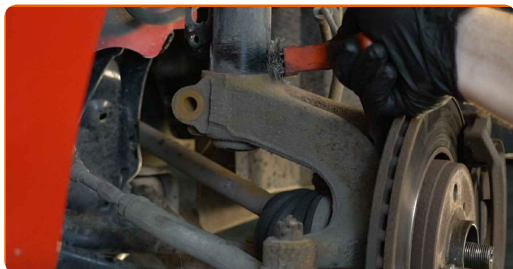
27 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.



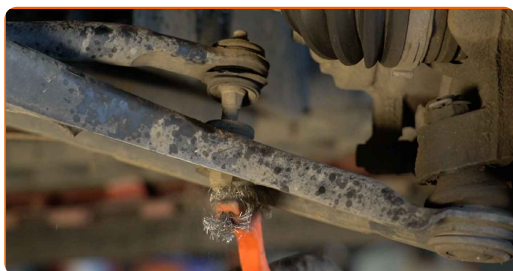
28 Remove the fastening bolt.



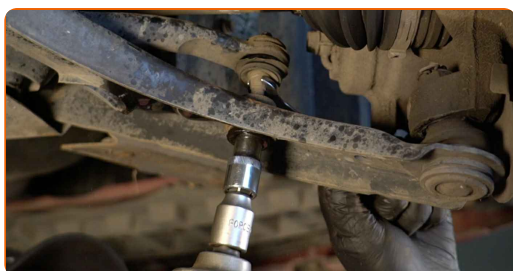
29 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



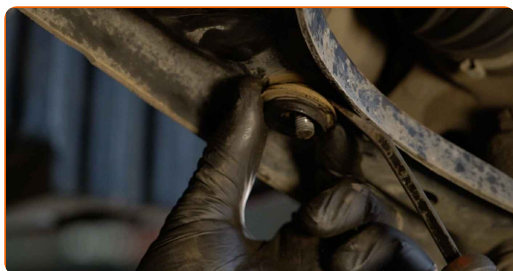
30 Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



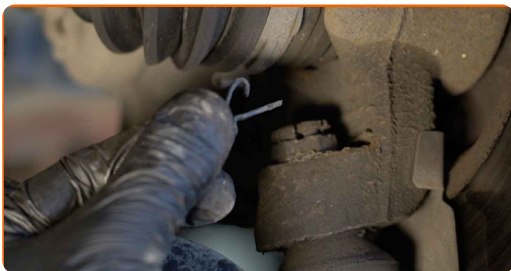
31 Unscrew the fastener connecting the stabilizer bar with the control arm. Use a combination spanner #10. Use a drive socket #12. Use a ratchet wrench.



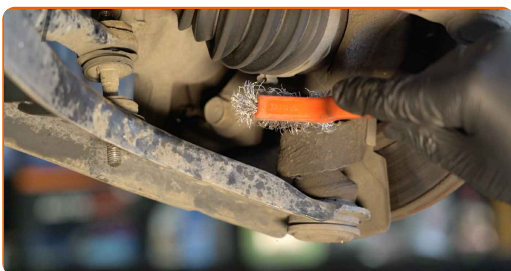
32 Remove the stabilizer rod.



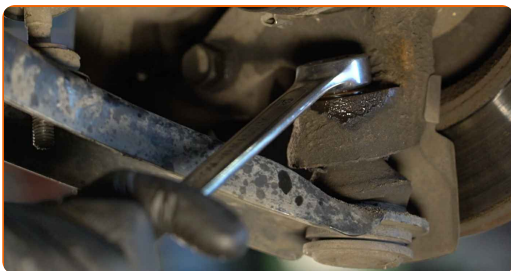
33 Remove the cotter pin. Use a crowbar.



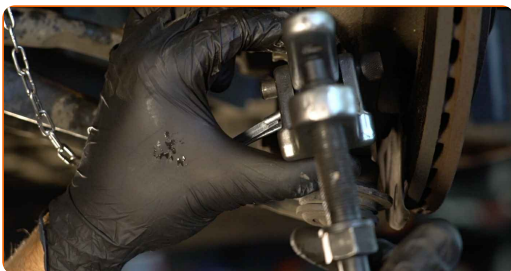
34 Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.



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



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



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

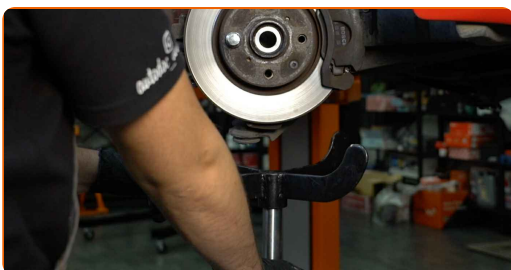


Replacement: suspension strut – Peugeot 107 PM PN. AUTODOC recommends:

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

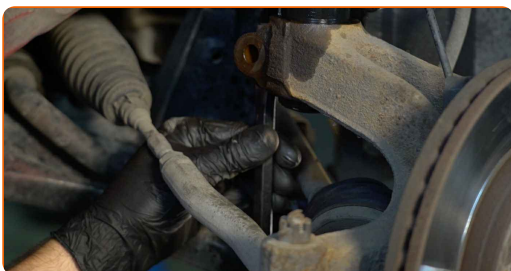
38

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



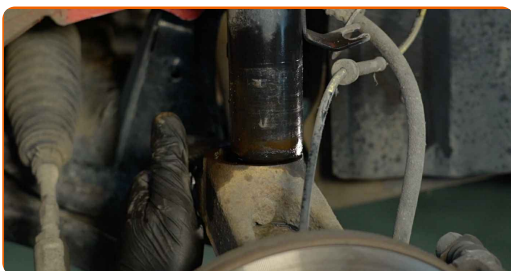
39

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



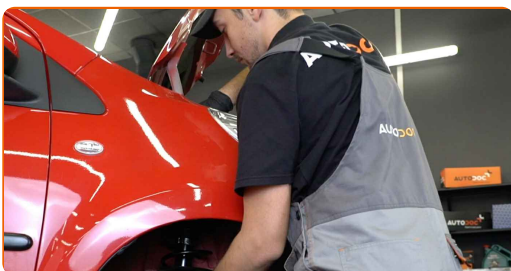
40

Disconnect the steering knuckle from the shock absorber strut.



41

Unscrew the top fastening of the shock strut mount.

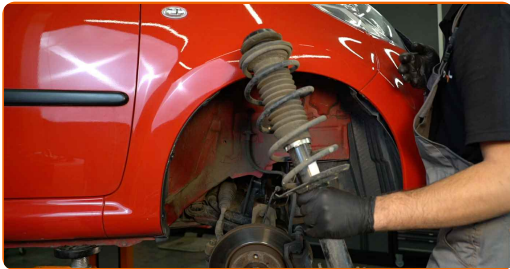


AUTODOC recommends:

- Peugeot 107 PM PN – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

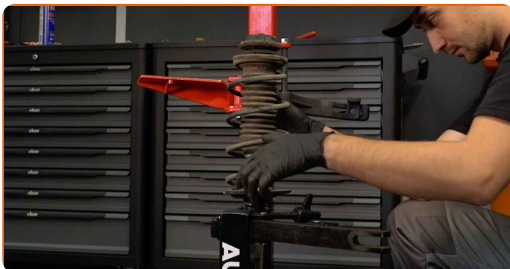
42

Remove the suspension strut.



43

Set the shock absorber strut on the spring compressor tool.



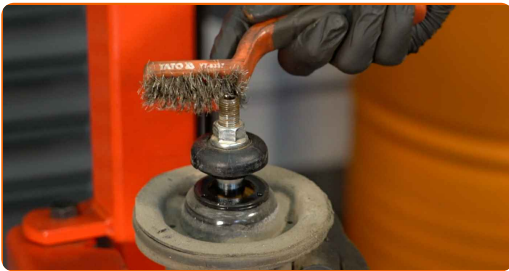
Replacement: suspension strut – Peugeot 107 PM PN. Tip from AUTODOC experts:

- 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.

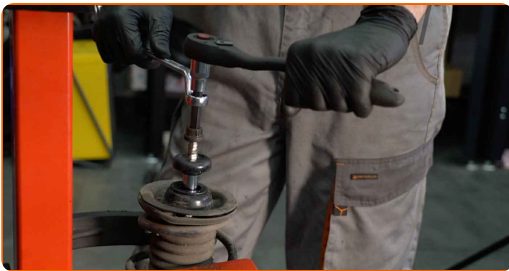
44 Compress the spring.



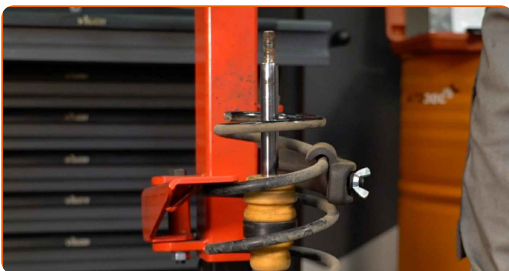
45 Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



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



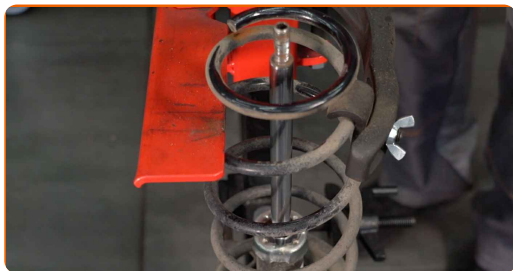
47 Remove the shock absorber mount, boot and bump stop.



AUTODOC recommends:

- Thoroughly examine the shock absorber mount, dust boot, bump stop. Replace them if necessary.

48 Release the coil spring.



49 Remove the spring.



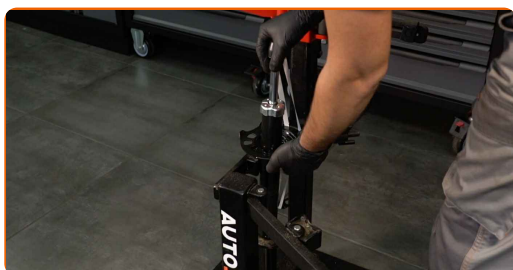
50 Remove the old shock absorber from the hydraulic coil spring compressor.



Replacement: suspension strut – Peugeot 107 PM PN. AUTODOC experts recommend:

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

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



52 Install the spring on the shock absorber.



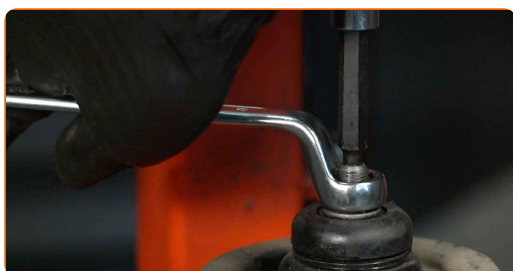
53 Compress the spring.



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



55 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 55 Nm torque.



Replacement: suspension strut – Peugeot 107 PM PN. Tip:

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

56 Decompress the spring.



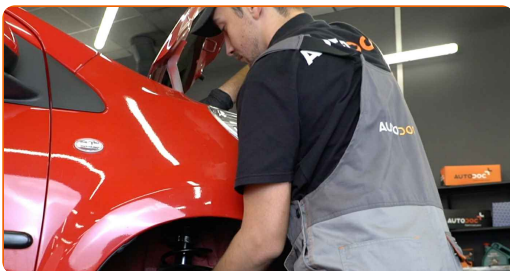
57 Remove the assembled shock strut.



58 Install the shock strut into the wheel arch.



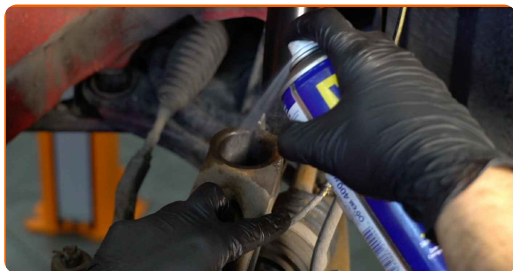
59 Screw the top fastening of the shock strut mount. Do not tighten it.



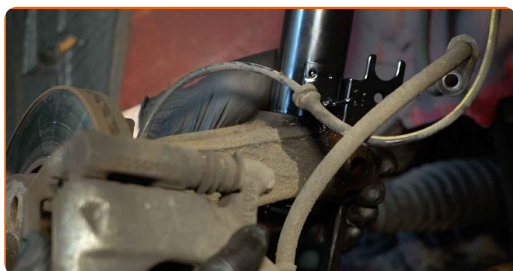
AUTODOC recommends:

- Important! Hold the suspension strut while screwing in the fastening bolts.
Peugeot 107 PM PN

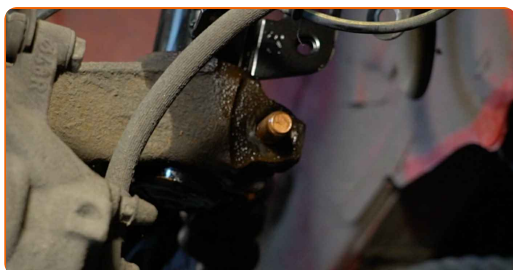
60 Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



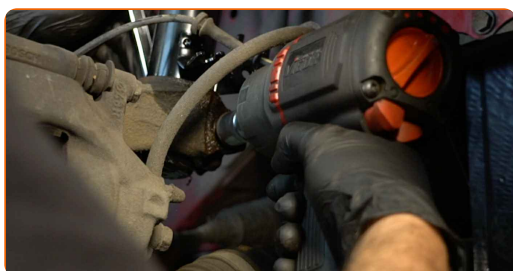
61 Fix the shock absorber strut on the steering knuckle.



62 Install the fastening bolt.

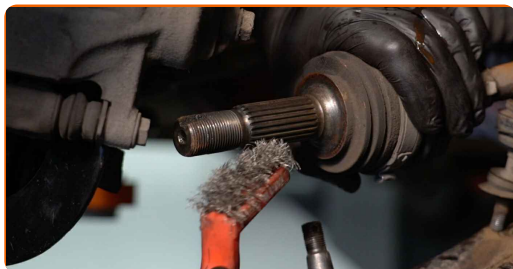


63 Screw in the fastener that connects the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.



64

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



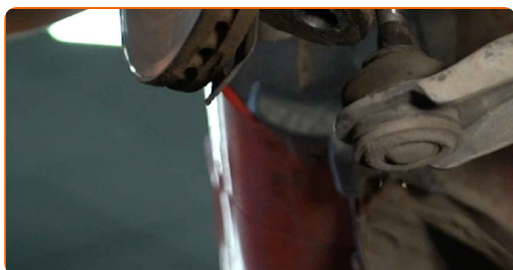
65

Mount the drive shaft into the wheel hub.



66

Remove the support from under the steering knuckle.



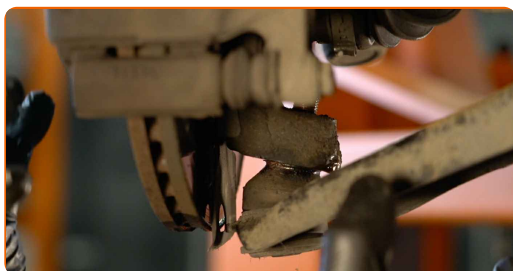
AUTODOC recommends:

- Replacement: suspension strut – Peugeot 107 PM PN. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

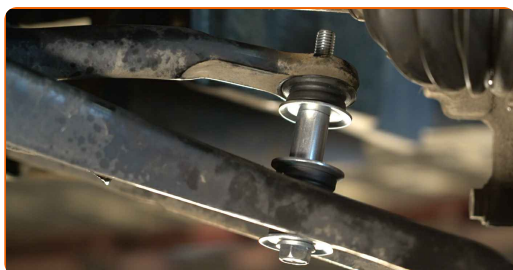
67 Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.



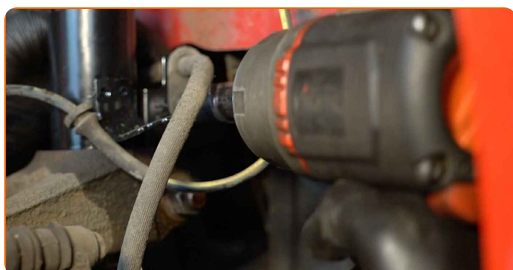
68 Connect the lower arm to the steering knuckle.



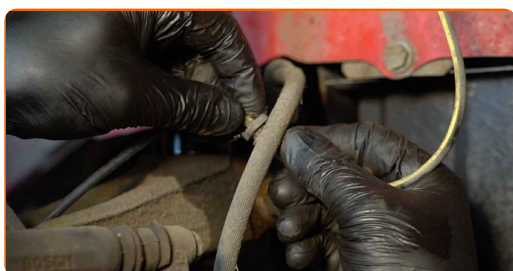
69 Install the transverse stabilizer link.



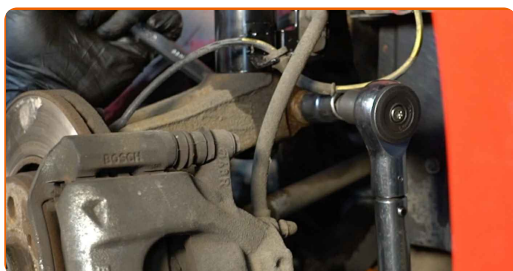
70 Tighten the brake hose fastening bracket to the shock strut. Use a drive socket #14. Use a ratchet wrench.



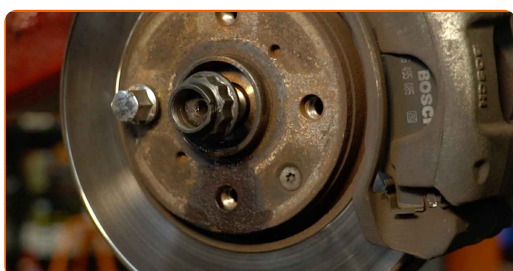
71 Connect the ABS sensor wiring.



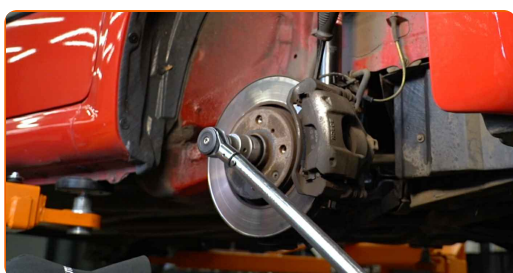
- 72** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 52 Nm torque.



- 73** Install the fastening nut.



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



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



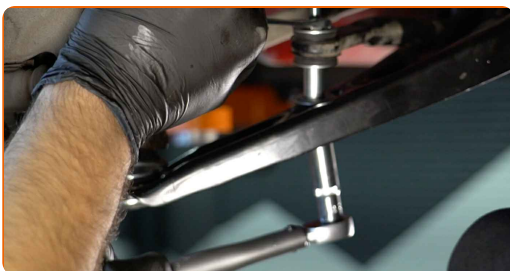
76 Tighten the ball joint fastener. Use a combination spanner #19. Use a torque wrench. Tighten it to 98 nm torque.



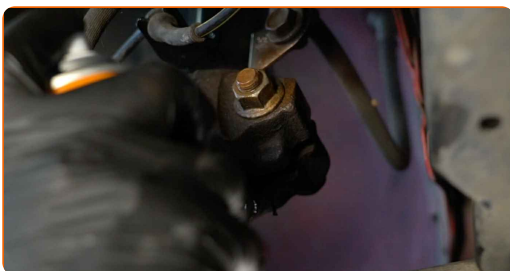
77 Install the cotter pin. Use a crowbar.



78 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.



79 Treat the shock strut fasteners. Use copper grease.



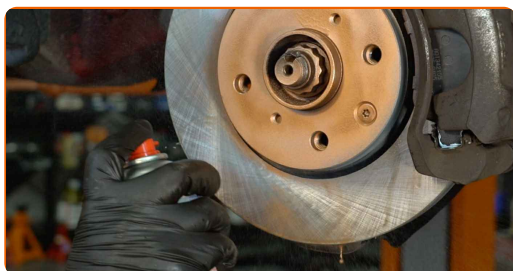
80

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



81

Clean the brake disk surface. Use a brake cleaner.

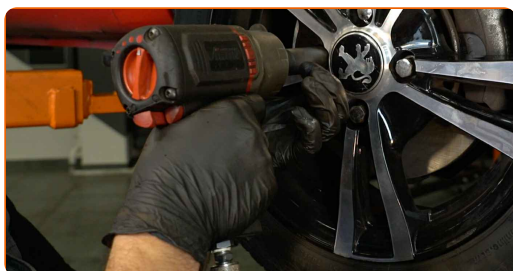


Replacement: suspension strut – Peugeot 107 PM PN. Tip from AUTODOC experts:

- After applying the spray, wait a few minutes.

82

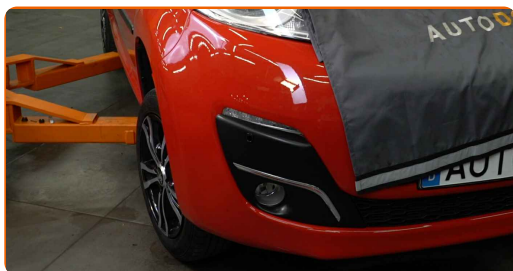
Screw in the wheel bolts. Use wheel impact socket #17.



AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. Peugeot 107 PM PN

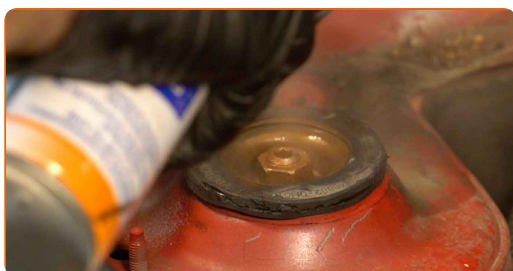
83 Lower the car.



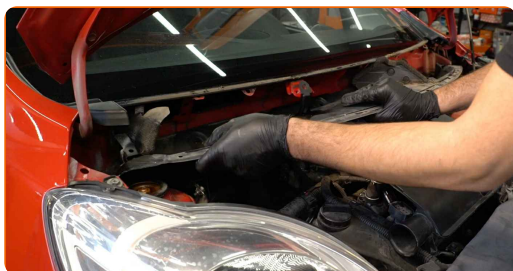
84 Tighten the upper fastener of the shock absorber strut mount. Use HEX No.H6. Use a drive socket #17. Use a torque wrench. Tighten it to 55 Nm torque.



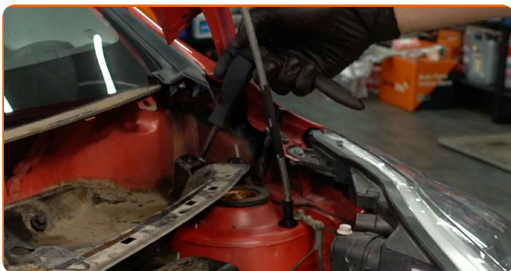
85 Treat the fasteners of the shock strut mount. Use copper grease.



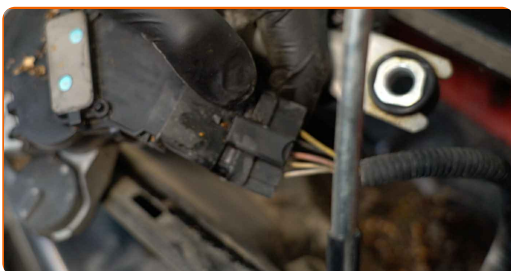
86 Install the panel assembled with the windscreen wiper linkage.



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.



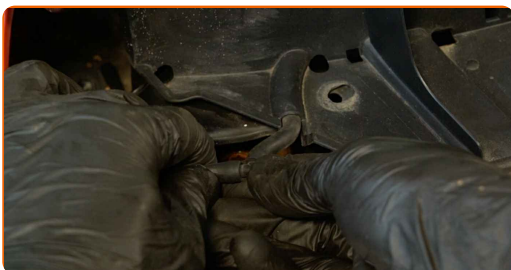
89 Install the wiper arm covers.



90 Install the wiper cowl clips.



91 Attach the windscreen washer nozzle hose.



92 Reinstall the wiper arms.



Replacement: suspension strut – Peugeot 107 PM PN. Tip:

- 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.



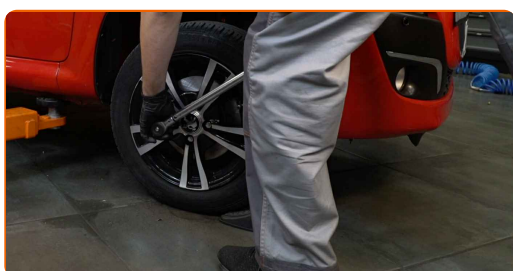
96

Close the hood.



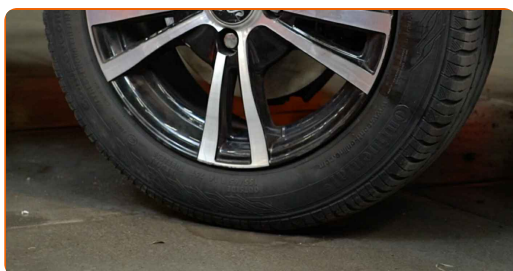
97

Tighten the wheel bolts using a criss-cross pattern. Use wheel impact socket #17. Use a torque wrench. Tighten it to 100 nm torque.



98

Remove the jacks and chocks.



WELL DONE! 

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