



How to change front coil
springs on **Citroen Xsara**
Picasso – replacement
guide

VIDEO TUTORIAL

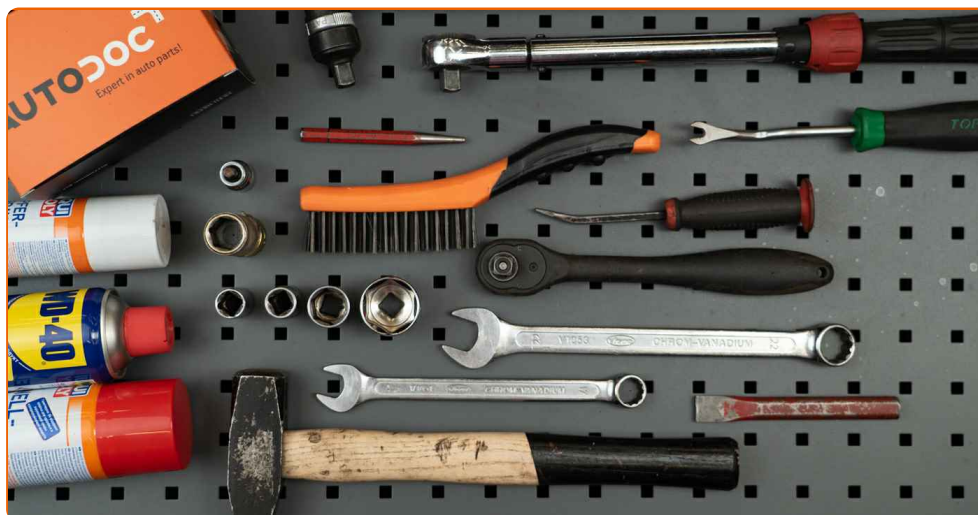
** Important!**

This replacement procedure can be used for:

CITROËN XSARA PICASSO (N68) 2.0 16V, CITROËN XSARA PICASSO (N68) 1.6 HDi

The steps may slightly vary depending on the car design.

**REPLACEMENT: COIL SPRINGS – CITROEN XSARA
PICASSO. TOOLS YOU NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #17
- Combination spanner #22
- Drive socket # 14
- Drive socket # 16
- Drive socket # 17
- Drive socket # 22
- Drive socket # 32
- HEX bit No.H7.
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Clip removal tool
- Hammer
- Tap wrench
- Pin punch
- Flat chisel
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

BUY TOOLS

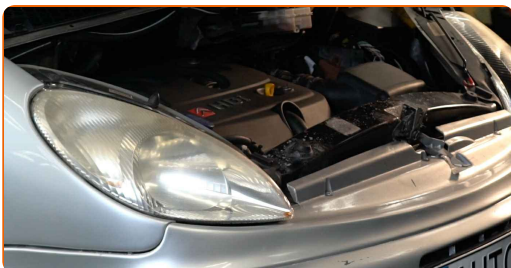
Replacement: coil springs – Citroen Xsara Picasso. Professionals recommend:

- 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.
- Please note: all work on the car – Citroen Xsara Picasso – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

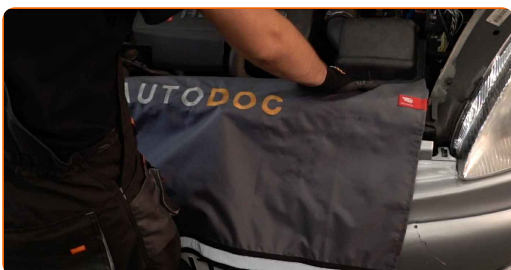
1

Open the bonnet.



2

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



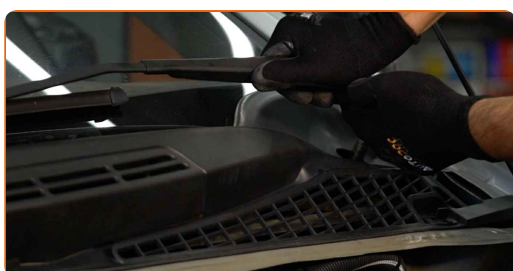
3 Remove the windscreen wiper arm nut covers. Use a clip removal tool.



4 Unscrew the fasteners of the windscreen wiper arms. Use a drive socket #14.



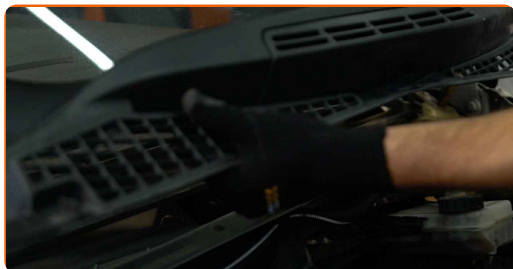
5 Remove the wiper arms.



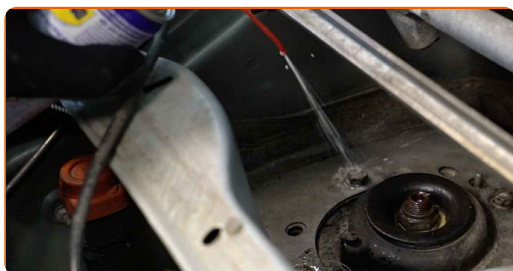
6 Detach the retainers of the upper part of the microfilter housing.



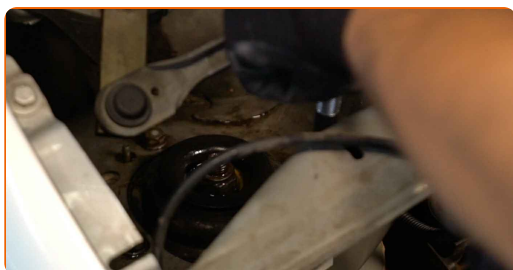
7 Raise up and remove the cowl grille.



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



9 Loosen the upper fastener of the shock strut mount. Use a drive socket #14. Use a ratchet wrench.



10 Secure the wheels with chocks.



11

Loosen the wheel mounting bolts. Use wheel impact socket #19.



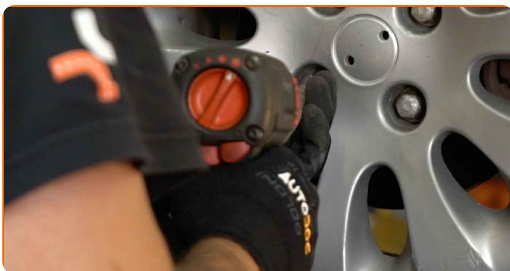
12

Raise the front of the car and secure on supports.



13

Unscrew the wheel bolts.



Replacement: coil springs – Citroen Xsara Picasso. Tip:

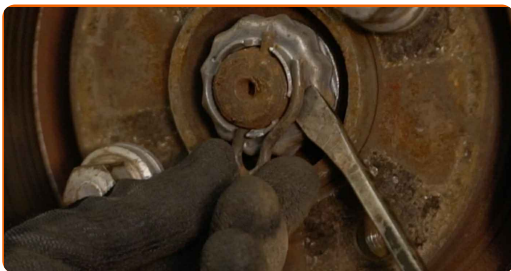
- To avoid injury, hold up the wheel when unscrewing the bolts.

14

Remove the wheel.



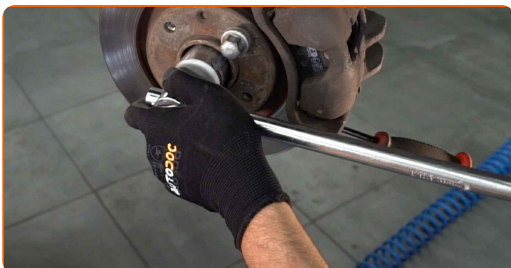
15 Remove the axle nut cotter pin. Use a crowbar.



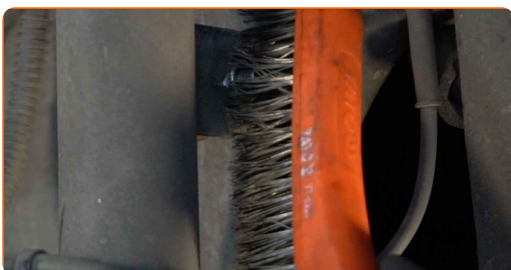
16 Clean the fastener of the driveshaft. Use a wire brush. Use WD-40 spray.



17 Loosen the fastener of the driveshaft. Use a drive socket #32. Use a tap wrench.



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

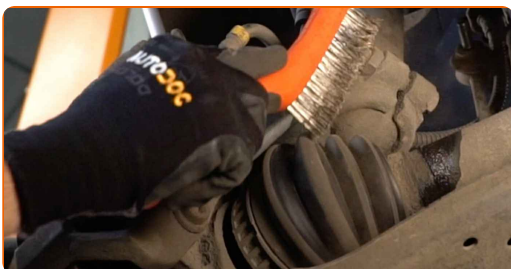


19 Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17.

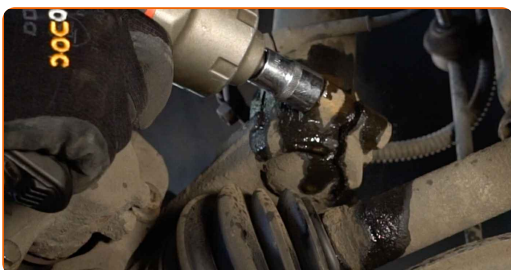


20 Remove the stabilizer rod.

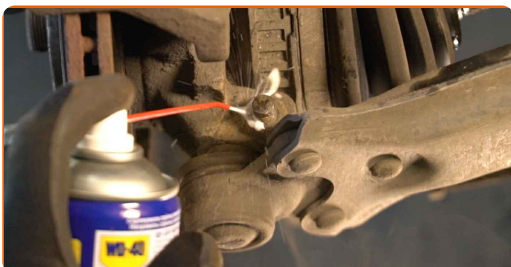
21 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



22 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #16. Use a tap wrench.



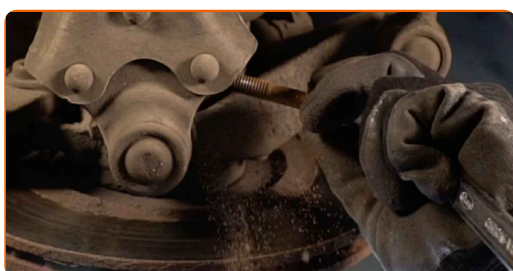
23 Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



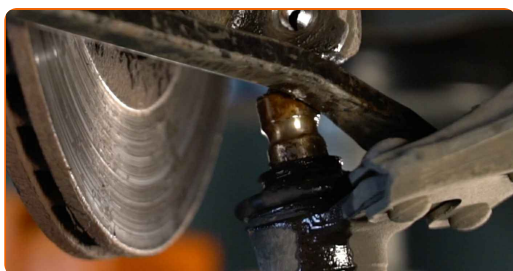
- 24** Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #17. Use a combination spanner #17. Use a tap wrench.



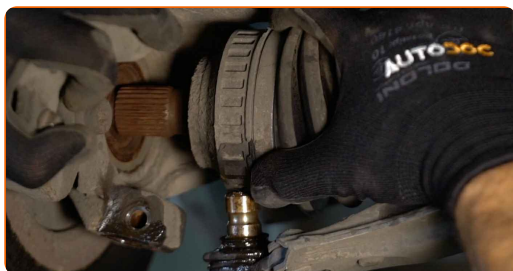
- 25** Remove the fastening bolt. Use a pin punch. Use a hammer.



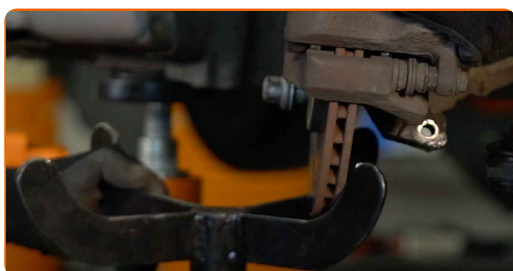
- 26** Disconnect the ball joint from the steering knuckle. Use a crowbar.



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



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

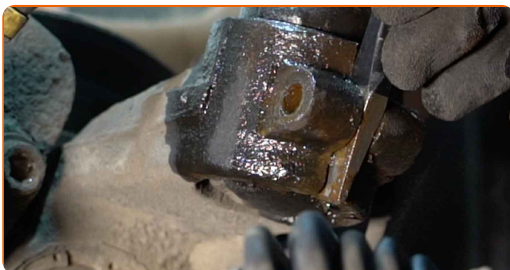


29 Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.

30 Remove the fastening bolt. Use a flat metal-working chisel. Use a hammer.



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



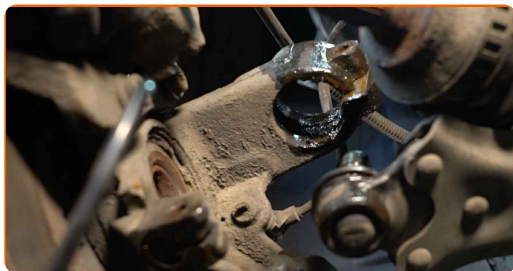
32 Lower the hydraulic transmission jack by 10-15 cm.



AUTODOC recommends:

- Replacement: coil springs – Citroen Xsara Picasso. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

33 Disconnect the steering knuckle from the shock absorber strut.



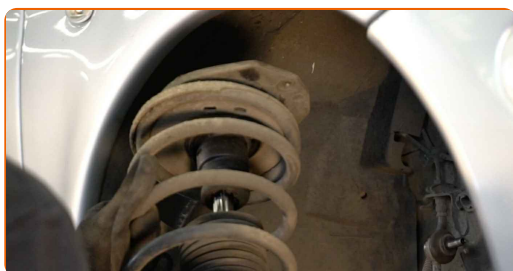
34 Unscrew the top fastening of the shock strut mount. Use a drive socket #14.



AUTODOC recommends:

- Important! Hold the suspension strut while unscrewing the fastening bolts.
Citroen Xsara Picasso

35 Remove the suspension strut.



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

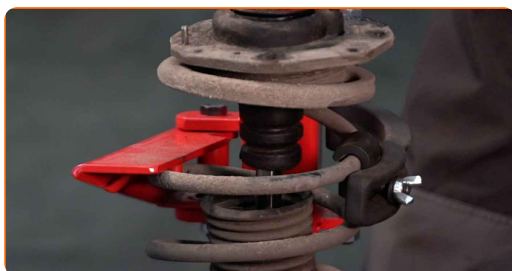


Replacement: coil springs – Citroen Xsara Picasso. Tip from AUTODOC experts:

- 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.

37

Compress the spring.



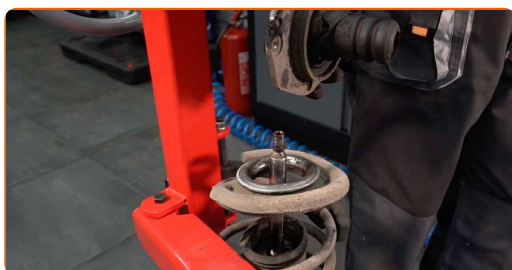
38

Remove the strut piston rod nut. Use a combination spanner #22. Use HEX No.H7. Use a ratchet wrench.

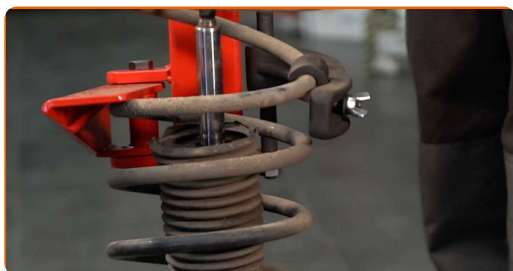


39

Remove the top strut mount.



40 Release the coil spring.



41 Remove the spring.



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



AUTODOC recommends:

- Replacement: coil springs – Citroen Xsara Picasso. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

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



44 Install the spring on the shock absorber.



45 Compress the spring.

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



47 Tighten the shock strut piston rod nut. Use a drive socket #22. Use HEX No.H7. Use a torque wrench. Tighten it to 49 Nm torque.



Replacement: coil springs – Citroen Xsara Picasso. AUTODOC recommends:

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

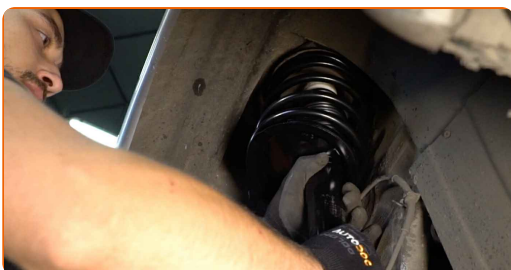
48 Decompress the spring.



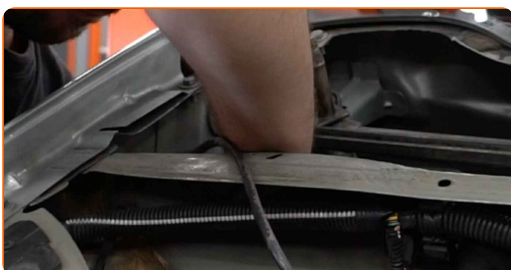
49 Remove the assembled shock strut.



50 Install the shock strut into the wheel arch.



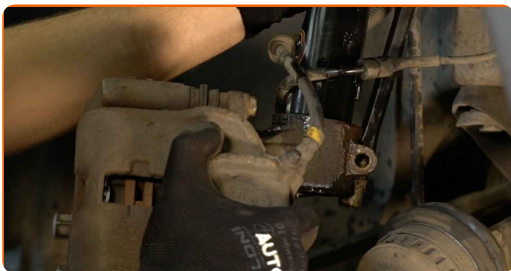
51 Screw the top fastening of the shock strut mount. Do not tighten it.



AUTODOC recommends:

- Citroen Xsara Picasso – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

52 Fix the shock absorber strut on the steering knuckle.



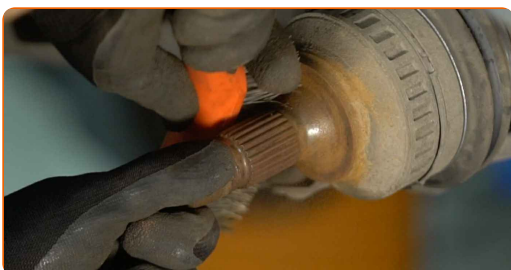
53 Install the fastening bolt. Use a hammer.



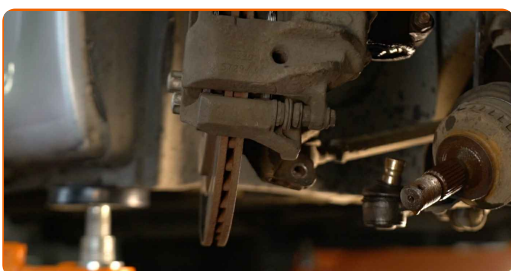
54 Screw in the fastener that connects the shock strut to the steering knuckle. Use a drive socket #16.



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



56 Remove the support from under the steering knuckle.

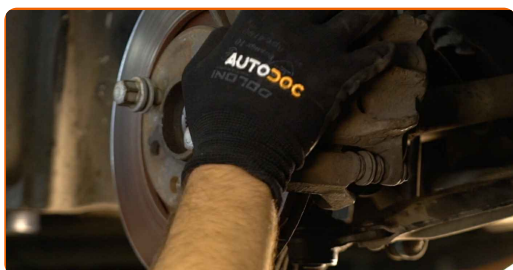


Replacement: coil springs – Citroen Xsara Picasso. Tip from AUTODOC:

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

57

Install the drive shaft.



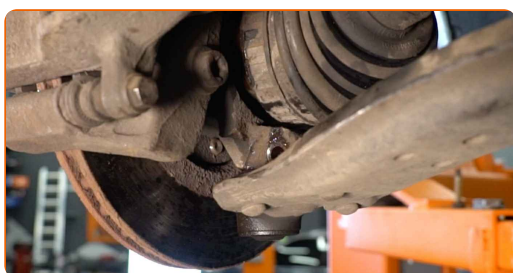
58

Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.

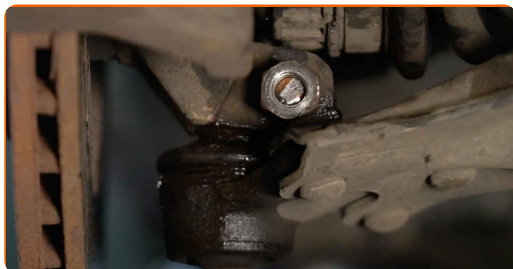


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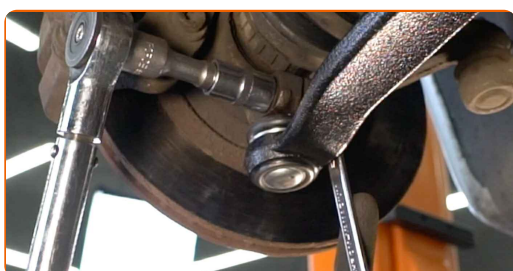
Connect the ball joint to the steering knuckle.



60 Install the fastening bolt. Use a hammer.



61 Tighten the ball joint fastener. Use a drive socket #17. Use a combination spanner #17. Use a torque wrench. Tighten it to 44 Nm torque.



62 Install the transverse stabilizer link.



63 Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a torque wrench. Tighten it to 40 Nm torque.



64 Tighten the drive shaft nut. Use a drive socket #32. Use a torque wrench. Tighten it to 245 Nm torque.



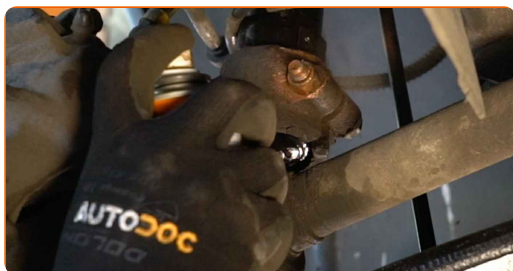
65 Install the axle nut cotter pin. Use a crowbar.



66 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #16. Use a torque wrench. Tighten it to 45 Nm torque.

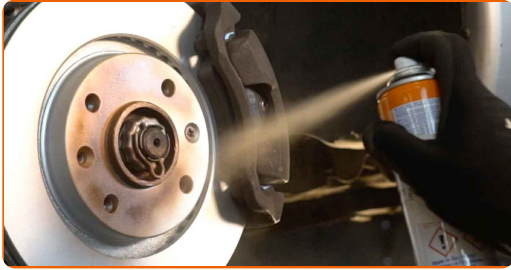


67 Treat the shock strut fasteners. Treat all joints of the arm. Use copper grease.



68

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



69

Clean the brake disk surface. Use a brake cleaner.

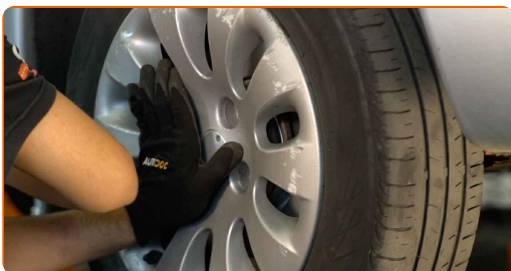


AUTODOC recommends:

- Replacement: coil springs – Citroen Xsara Picasso. After applying the spray, wait a few minutes.

70

Install the wheel.



Replacement: coil springs – Citroen Xsara Picasso. AUTODOC experts recommend:

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

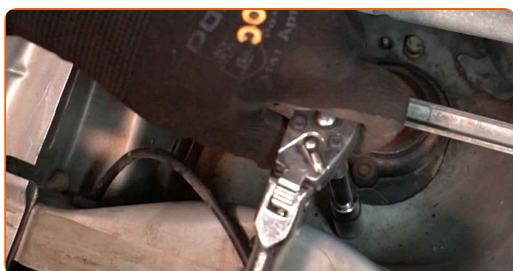
71 Screw in the wheel bolts. Use wheel impact socket #19.



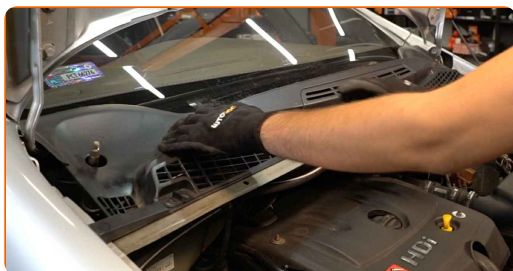
72 Lower the car.



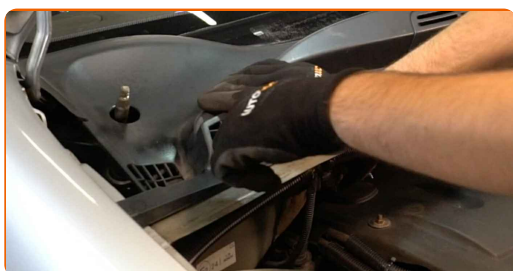
73 Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #14. Use a torque wrench. Tighten it to 25 nm torque.



74 Install and secure the cowl grille.



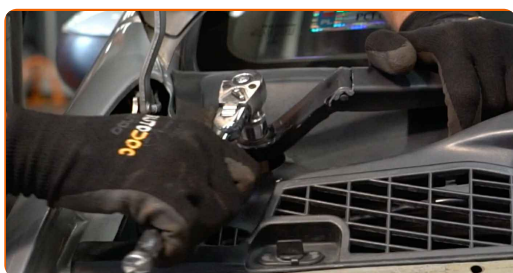
75 Attach the retainers of the upper part of the microfilter housing.



76 Reinstall the wiper arms.



77 Tighten the fasteners of the wiper arms. Use a drive socket #16. Use a torque wrench. Tighten it to 19 Nm torque.



AUTODOC recommends:

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

78 Install the nut covers of the windscreen wiper arms.



79 Tighten the wheel bolts using a criss-cross pattern. Use a torque wrench. Tighten it to 100 Nm torque.



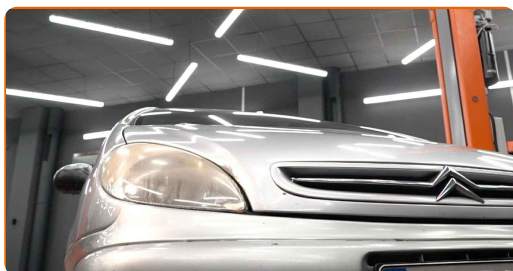
80

Remove the fender protection cover.



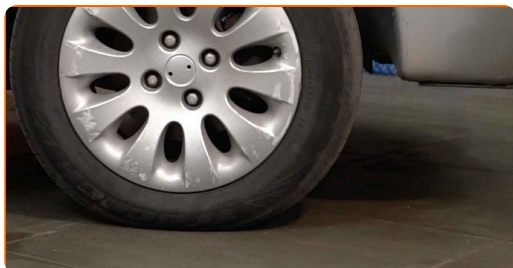
81

Close the hood.



82

Remove the jacks and chocks.



WELL DONE! 

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