



How to change front coil
springs on **RENAULT Clio**
III Grandtour –
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:

RENAULT Clio III Grandtour 1.6 16V, RENAULT Clio III Grandtour 1.5 dCi

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: RENAULT Clio III Hatchback (BR0/1, CR0/1) 1.5 dCi

REPLACEMENT: COIL SPRINGS – RENAULT CLIO III GRANDTOUR. TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #18
- Drive socket # 10
- Drive socket # 13
- Drive socket # 16
- Drive socket # 18
- HEX bit No.H6.
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Crow bar
- Clip removal tool
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

Buy tools

Replacement: coil springs – RENAULT Clio III Grandtour. AUTODOC experts recommend:

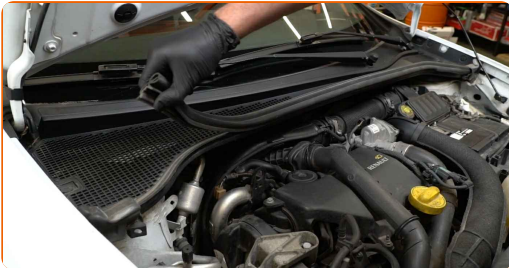
- Both coil springs of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the front suspension.
- All work should be done with the engine stopped.

REPLACEMENT: COIL SPRINGS – RENAULT CLIO III GRANDTOUR. RECOMMENDED SEQUENCE OF STEPS:

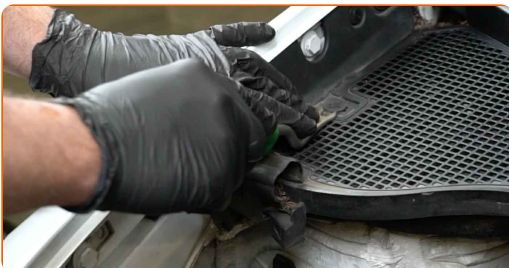
1 Open the bonnet.

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

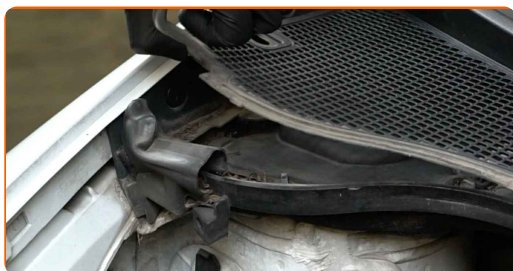
3 Remove the cowl grille seal.



4 Remove the cowl grille clips. Use a clip removal tool.



5 Raise up and remove the cowl grille.



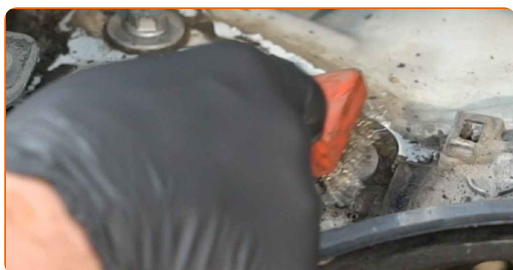
6 Unscrew the fasteners of the suspension strut mount cover. Use a drive socket #10. Use a ratchet wrench.



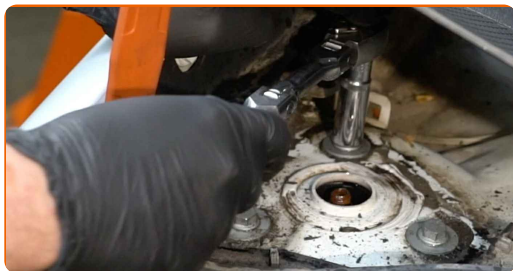
7 Remove the protective cap from the shock absorber strut mount.



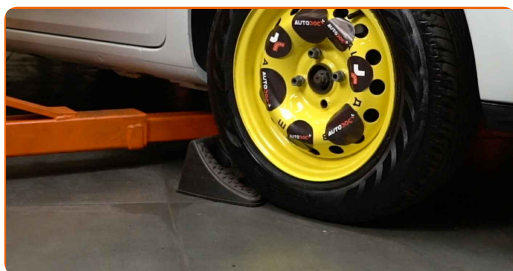
8 Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.



9 Loosen the upper fastener of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.



10 Secure the wheels with chocks.

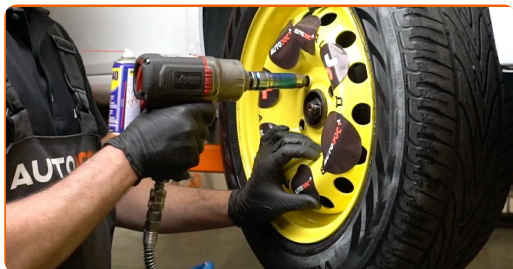


11 Loosen the wheel mounting bolts. Use wheel impact socket #17.



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

13 Unscrew the wheel bolts.

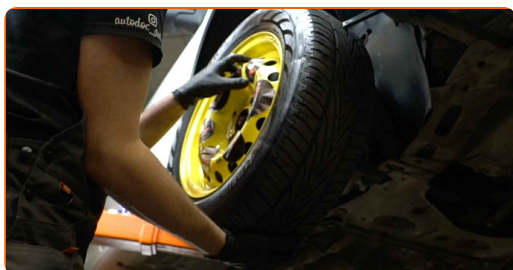


Replacement: coil springs – RENAULT Clio III Grandtour. Professionals recommend:

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

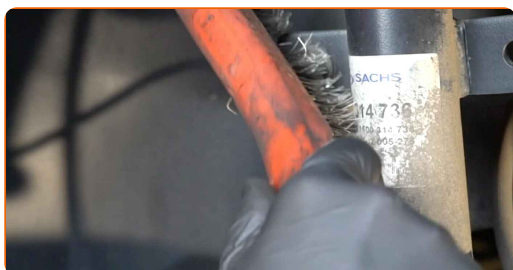
14

Remove the wheel.



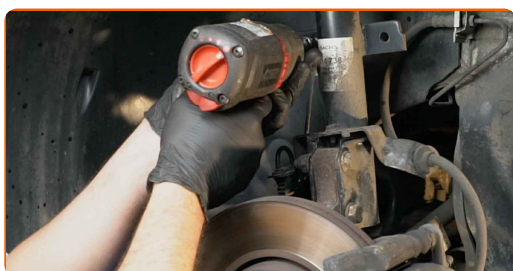
15

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



16

Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #16. Use a ratchet wrench.



17

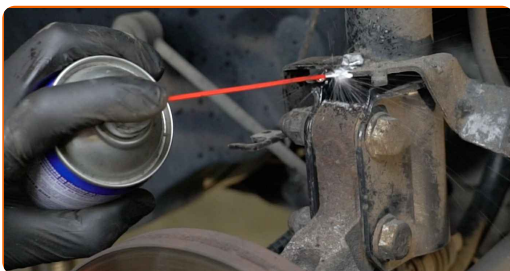
Remove the stabilizer rod.



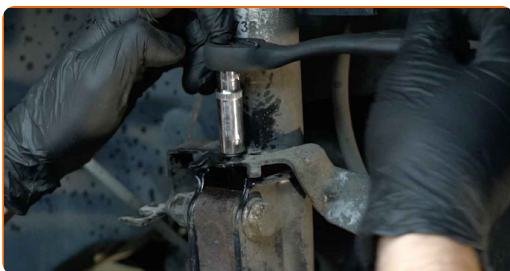
18 Disconnect the ABS sensor wiring. Use a crowbar.



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

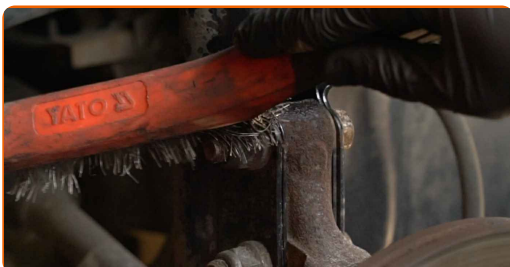


20 Unscrew the brake hose fastening bracket from the shock strut. Use a drive socket #10. Use a ratchet wrench.



21 Disconnect the brake hose mounting bracket.

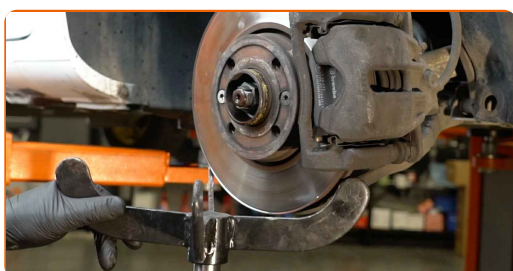
22 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



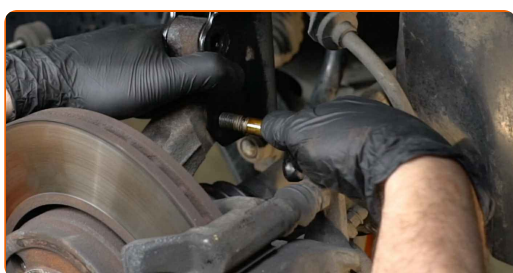
- 23 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a tap wrench.



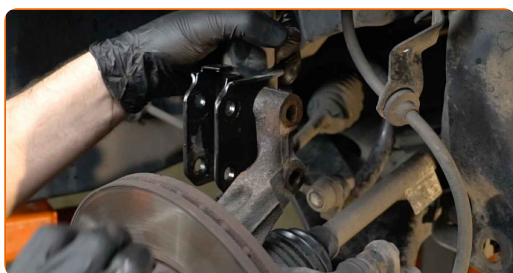
- 24 Prop up the steering knuckle. Use a hydraulic transmission jack.



- 25 Remove the fastening bolts.



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



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

Replacement: coil springs – RENAULT Clio III Grandtour. Tip:

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

28

Remove the suspension strut.



29

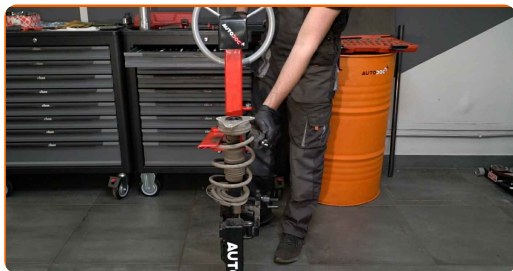
Set the shock absorber strut on the spring compressor tool.



Replacement: coil springs – RENAULT Clio III Grandtour. AUTODOC recommends:

- 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.

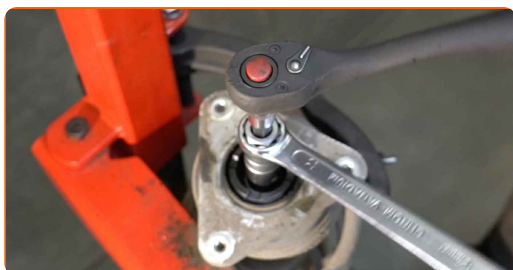
30 Compress the spring.



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



32 Remove the strut piston rod nut. Use HEX No.H6. Use a drive socket #18. Use a ratchet wrench.



33 Remove the top strut mount.



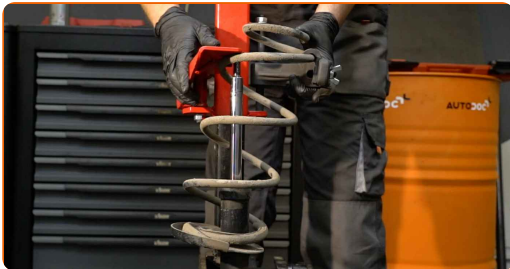
34 Remove the shock absorber dust cap and the bump stop.



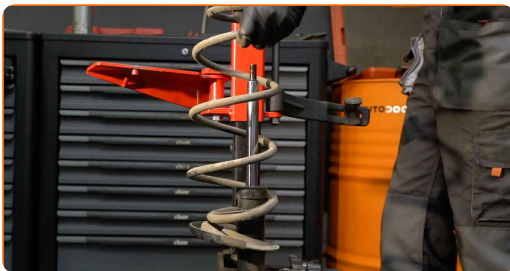
Replacement: coil springs – RENAULT Clio III Grandtour. AUTODOC experts recommend:

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

35 Release the coil spring.



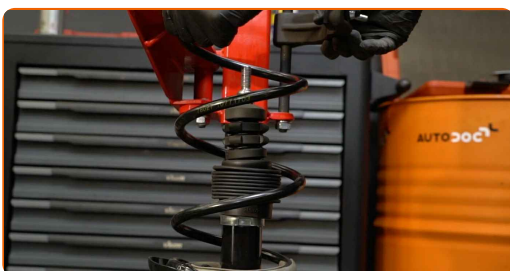
36 Remove the spring.



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



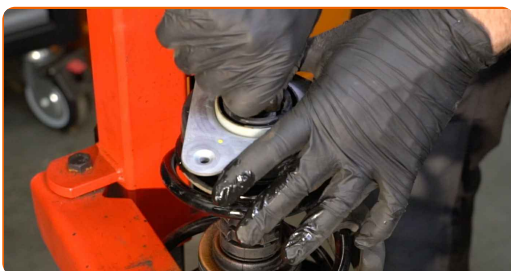
38 Install the spring on the shock absorber.



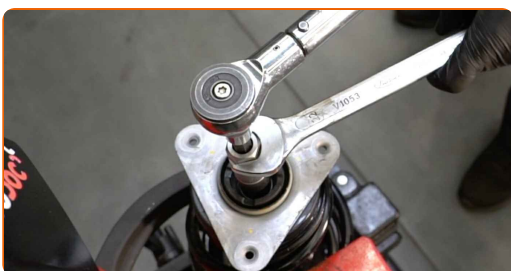
39 Compress the spring.



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



41 Tighten the shock strut piston rod nut. Use a drive socket #18. Use HEX No.H6. Use a torque wrench. Tighten it to 62 Nm torque.



Replacement: coil springs – RENAULT Clio III Grandtour. Tip from AUTODOC experts:

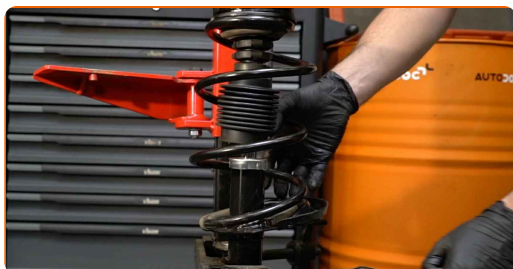
- Check to make sure the spring is positioned correctly. Avoid its misalignment.

42 Treat the shock strut rod. Use copper grease.

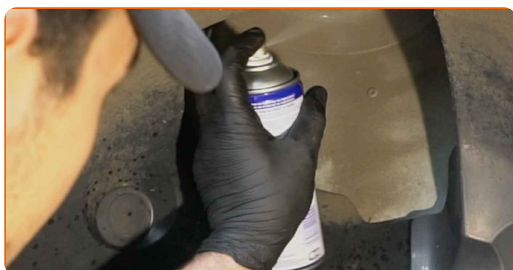
43 Decompress the spring.



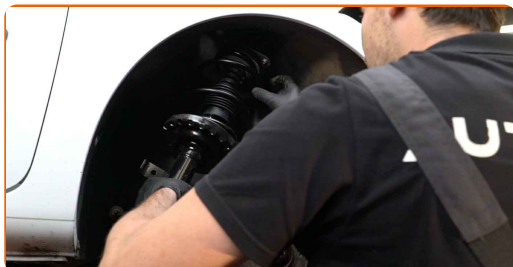
44 Remove the assembled shock strut.



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



46 Install the shock strut into the wheel arch.



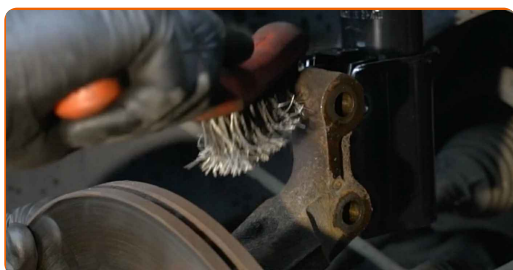
47 Screw the top fastening of the shock strut mount. Do not tighten it.

AUTODOC recommends:

- Important! Hold the suspension strut while screwing in the fastening bolts.
RENAULT Clio III Grandtour

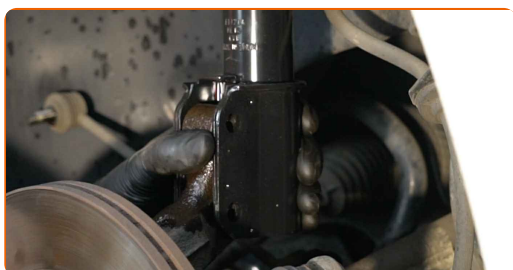
48

Treat the shock strut mounting seat on the steering knuckle. Use a wire brush. Use WD-40 spray.



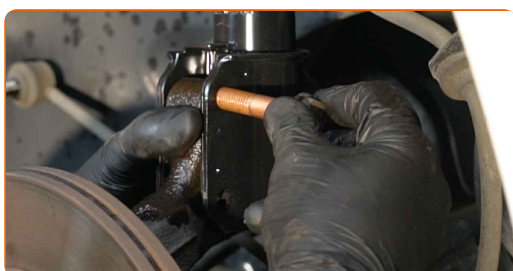
49

Fix the shock absorber strut on the steering knuckle.



50

Install the fastening bolts.



51

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.



52 Remove the support from under the steering knuckle.

Replacement: coil springs – RENAULT Clio III Grandtour. Tip from AUTODOC experts:

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

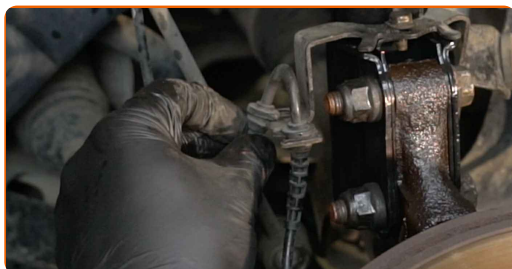
53 Secure the brake hose fastening bracket.



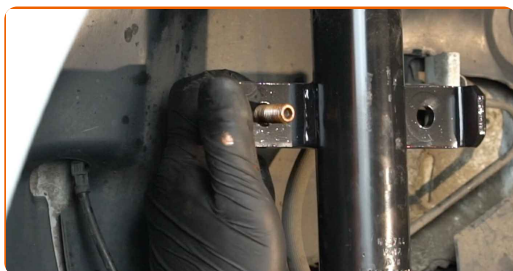
54 Tighten the brake hose fastening bracket to the shock strut. Use a drive socket #10. Use a ratchet wrench.



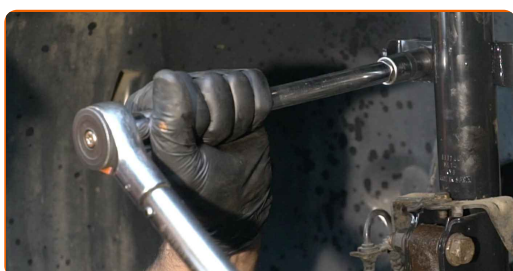
55 Connect the ABS sensor wiring.



56 Install the transverse stabilizer link.



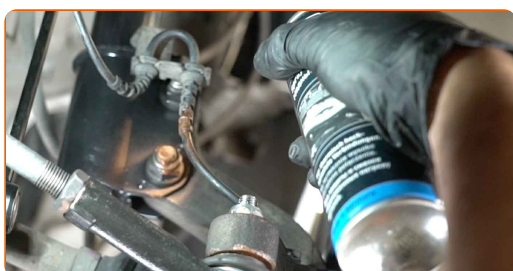
57 Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #16. Use a torque wrench. Tighten it to 44 Nm torque.



58 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 105 Nm torque.



59 Treat the shock strut fasteners. Use copper grease.



60

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



61

Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: coil springs – RENAULT Clio III Grandtour. After applying the spray, wait a few minutes.

62

Install the wheel.



Replacement: coil springs – RENAULT Clio III Grandtour. Tip:

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

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



64 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 105 Nm torque.

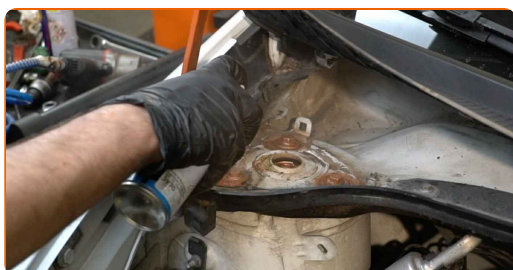
65 Remove the jacks and chocks.



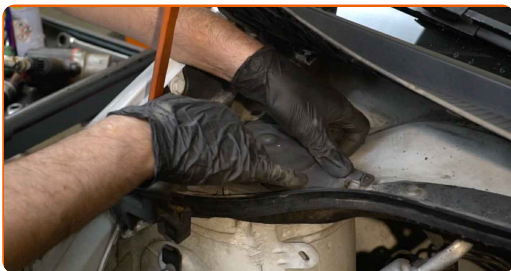
66 Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 21 Nm torque.



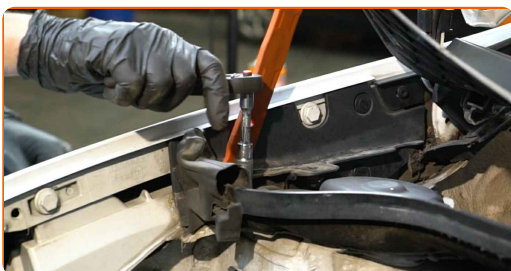
67 Treat the fasteners of the shock strut mount. Use copper grease.



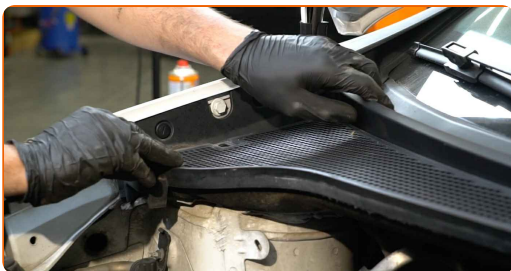
68 Install the protective cap onto the shock absorber strut mount.



69 Screw in the fasteners of the suspension strut mount cover. Use a drive socket #10. Use a ratchet wrench.

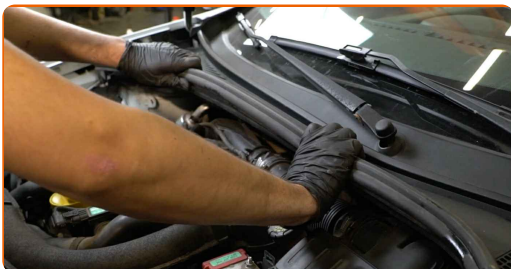


70 Install and secure the cowl grille.



71 Install the cowl grille clips.

72 Install the cowl grille seal.



73

Remove the fender protection cover.

74

Close the hood.

WELL DONE! 

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COIL SPRINGS: A WIDE SELECTION

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