



How to change front coil
springs on **ALFA ROMEO**
159 Saloon (939) –
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:

ALFA ROMEO 159 Saloon (939) 2.0 JTDM, ALFA ROMEO 159 Saloon (939) 1.9 JTS, ALFA ROMEO 159 Saloon (939) 2.2 JTS, ALFA ROMEO 159 Saloon (939) 1.9 JTDM 8V, ALFA ROMEO 159 Saloon (939) 1.9 JTDM 16V

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: ALFA ROMEO 159 Sportwagon (939) 2.2 JTS

REPLACEMENT: COIL SPRINGS – ALFA ROMEO 159 SALOON (939). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Combination spanner #6
- Combination spanner #18
- Drive socket # 6
- Drive socket # 16
- Drive socket # 18
- Drive socket # E18
- Drive socket # 21
- HEX bit No.H6
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Tap wrench
- Crow bar
- Rubber mallet
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

Buy tools

Replacement: coil springs – ALFA ROMEO 159 Saloon (939). 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 – ALFA ROMEO 159 SALOON (939). USE THE FOLLOWING PROCEDURE:

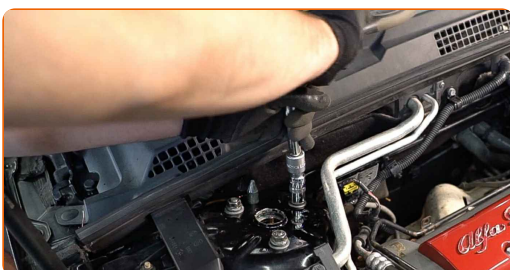
1 Open the bonnet.

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

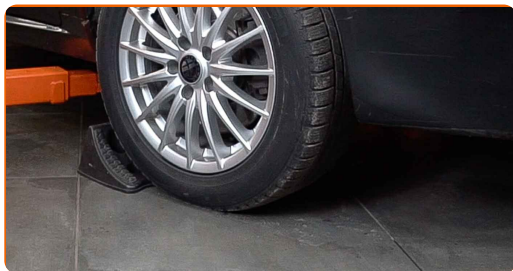
3 Clean the fasteners of the shock strut upper mount. Use WD-40 spray.



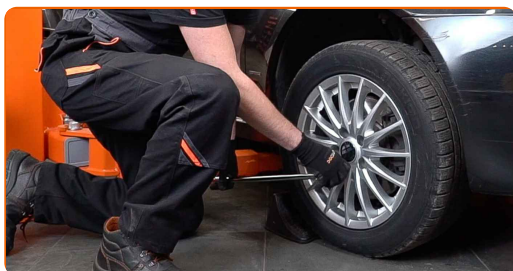
4 Loosen the upper fastener of the shock strut mount. Use a drive socket #16. Use a ratchet wrench.



5 Secure the wheels with chocks.



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



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

8 Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
ALFA ROMEO 159 Saloon (939)

9

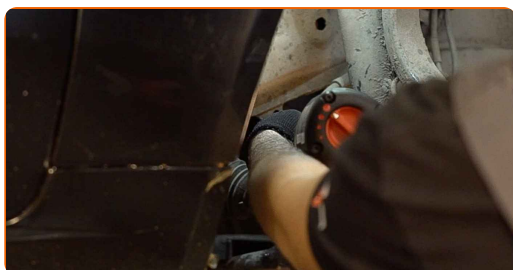
Remove the wheel.

**10**

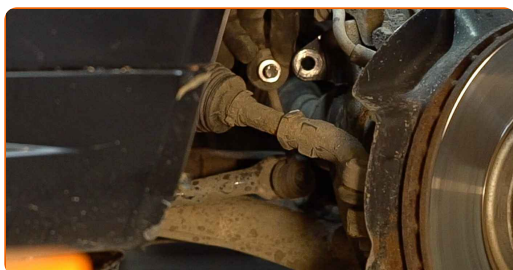
Clean the shock strut fasteners. Use a wire brush. Use WD-40 spray.

**11**

Undo the fastening nut that attaches the stabilizer link to the shock absorber fork. Use a drive socket #18.

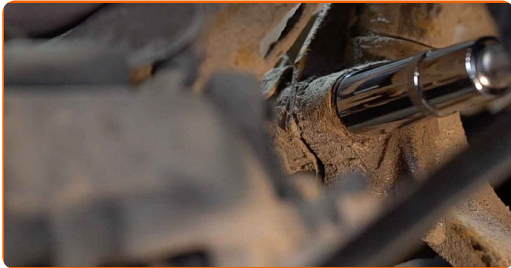
**12**

Remove the stabilizer rod.



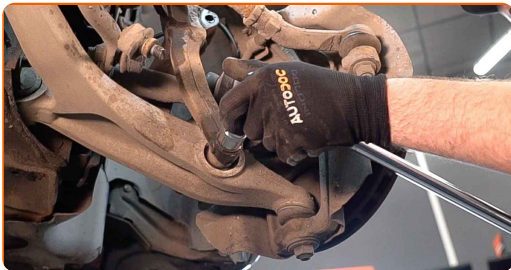
13

Unscrew the fastening bolt that connects the shock strut with the shock absorber fork. Use a drive socket #18. Use a tap wrench.



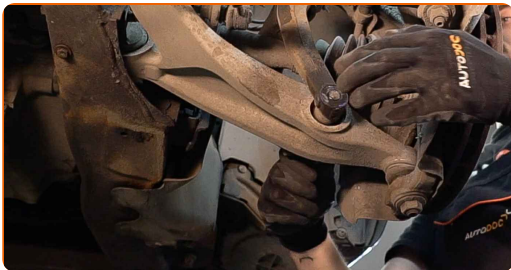
14

Unscrew the fastening bolt that connects the shock absorber fork with the lower control arm. Use a drive socket #21. Use a tap wrench.



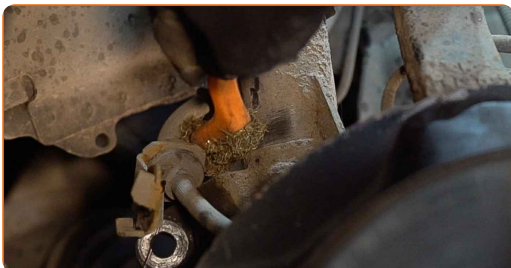
15

Remove the fastening bolt.

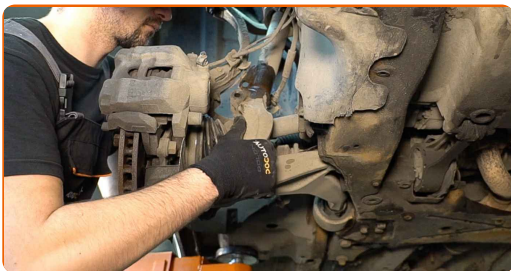


16

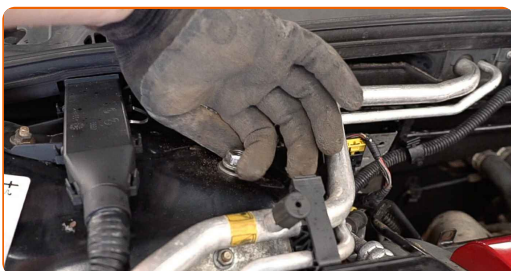
Clean the fastener that attaches the shock absorber fork to the shock strut. Use a wire brush. Use WD-40 spray.



17 Detach the shock absorber fork from the shock strut.



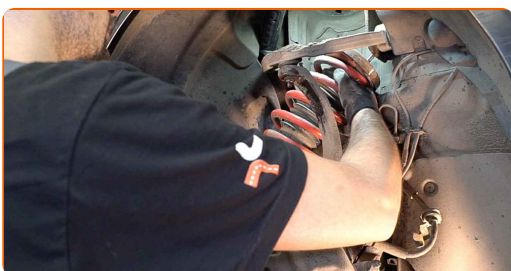
18 Unscrew the top fastening of the shock strut mount.



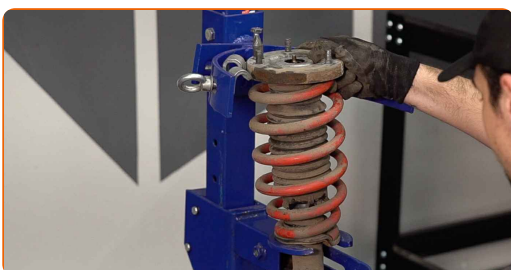
AUTODOC recommends:

- Important! Hold the suspension strut while unscrewing the fastening bolts. ALFA ROMEO 159 Saloon (939)

19 Remove the suspension strut.



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



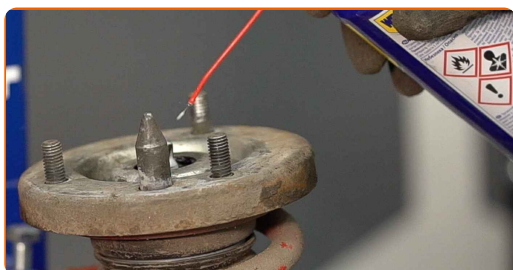
Replacement: coil springs – ALFA ROMEO 159 Saloon (939). Professionals recommend:

- 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.

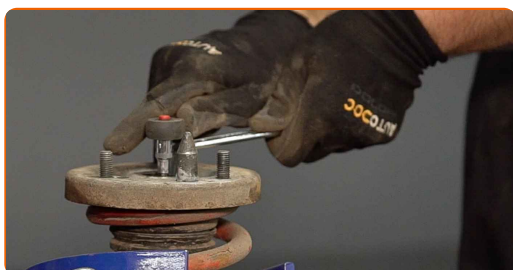
21 Compress the spring.



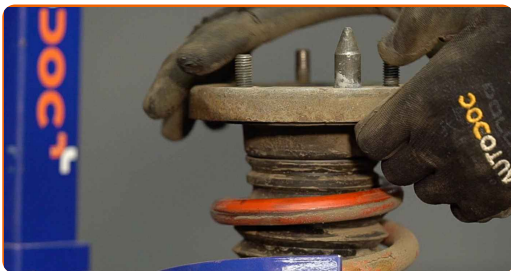
22 Clean the shock absorber rod. Use a wire brush. Use WD-40 spray.



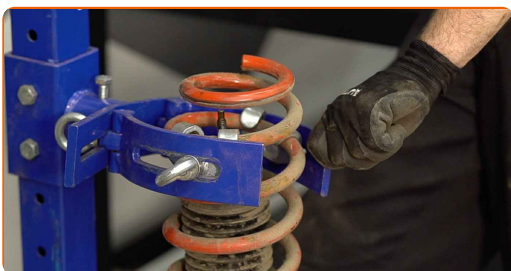
23 Remove the strut piston rod nut. Use a combination spanner #18. Use a drive socket #6. Use a ratchet wrench.



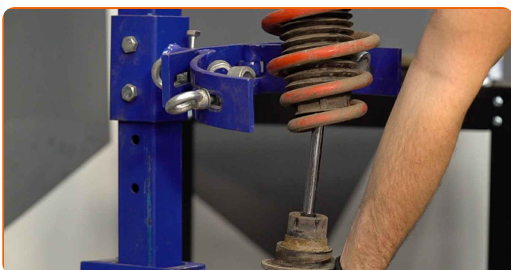
24 Remove the top strut mount. Use a crowbar.



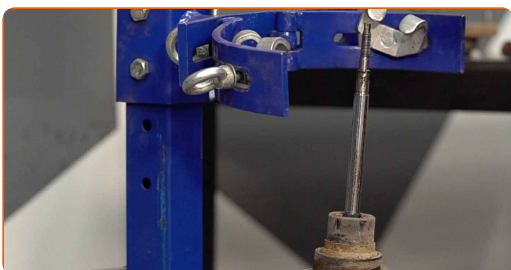
25 Release the coil spring.



26 Remove the spring.



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



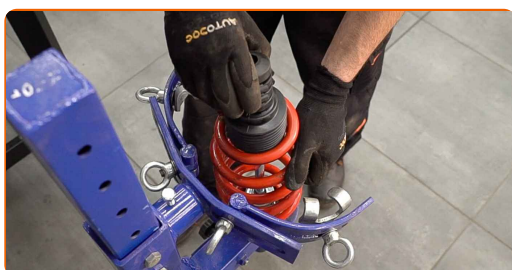
AUTODOC recommends:

- Replacement: coil springs – ALFA ROMEO 159 Saloon (939). Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

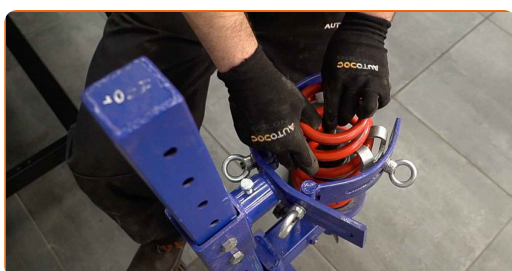
28 Install the spring on the shock absorber.



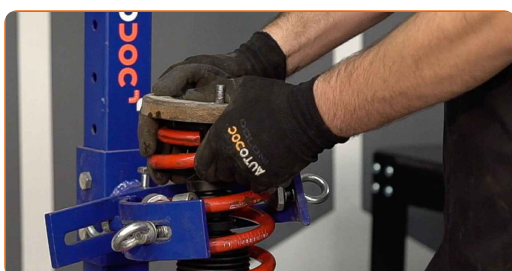
29 Install the boot and a bump stop onto the shock absorber.



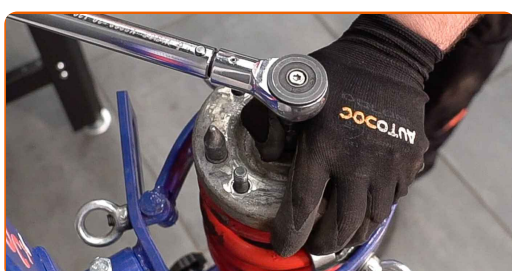
30 Compress the spring.



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



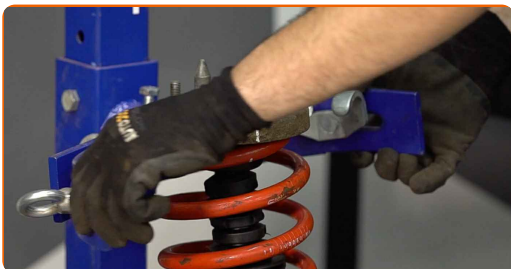
32 Tighten the shock strut piston rod nut. Use a combination spanner #6. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 33 Nm torque.



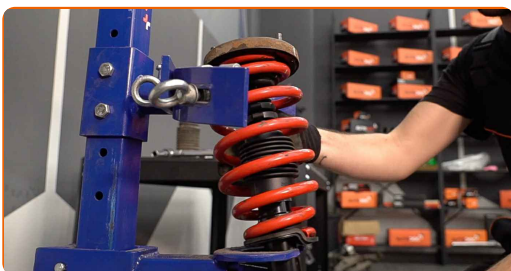
Replacement: coil springs – ALFA ROMEO 159 Saloon (939). Tip:

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

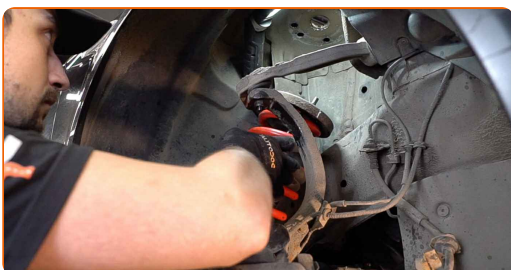
33 Decompress the spring.



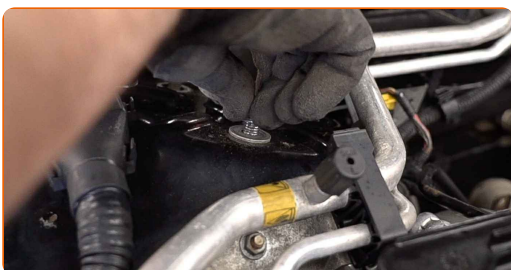
34 Remove the assembled shock strut.



35 Install the shock strut into the wheel arch.



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



AUTODOC recommends:

- ALFA ROMEO 159 Saloon (939) – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

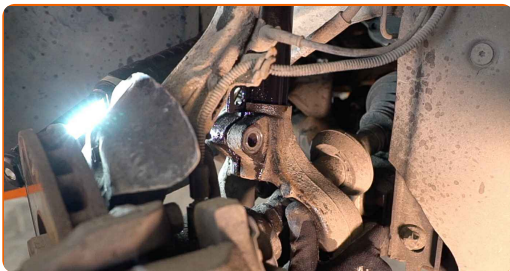
37

Clean the mounting seats of the shock absorber fork. Use a wire brush. Use WD-40 spray.



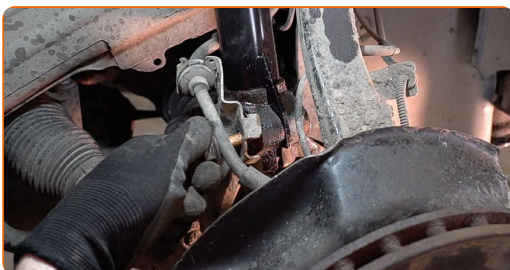
38

Attach the shock absorber fork to the shock strut. Use a rubber mallet.



39

Install the fastening bolt.

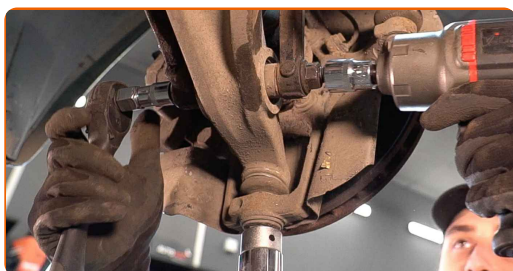


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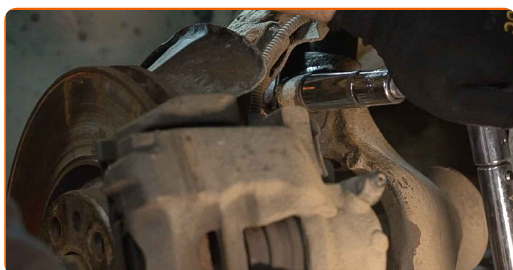
Support the arm. Use a hydraulic transmission jack.



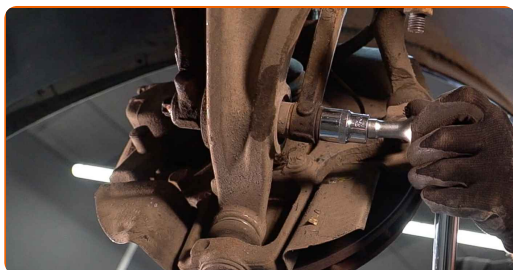
- 41** Screw in the fastener connecting the shock absorber fork to the lower control arm. Use a drive socket #E18. Use a drive socket #21. Use a tap wrench.



- 42** Tighten the fastening bolt that connects the shock strut with the shock absorber fork. Use a drive socket #18. Use a torque wrench. Tighten it to 77 Nm torque.



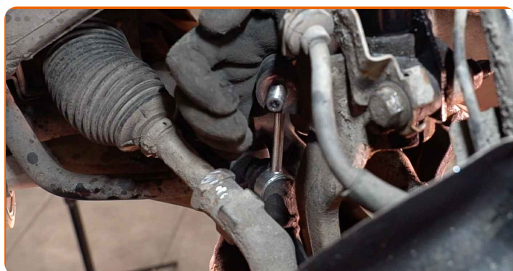
- 43** Tighten the fastening bolt that connects the shock absorber fork to the lower control arm. Use a drive socket #21. Use a torque wrench. Tighten it to 55 Nm torque.+45°



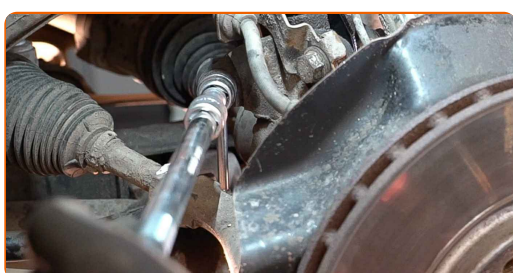
AUTODOC recommends:

- Important! Be sure to use new fasteners.

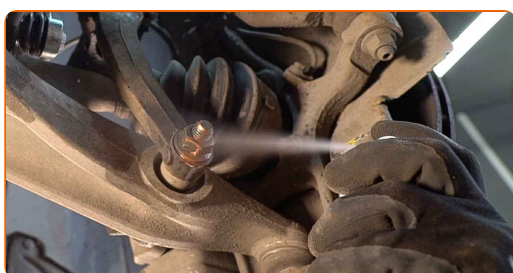
44 Install the transverse stabilizer link.



45 Tighten the fastener connecting the stabilizer link with the shock absorber fork. Use a combination spanner #18. Use HEX No.H6. Use a torque wrench. Tighten it to 60 Nm torque.



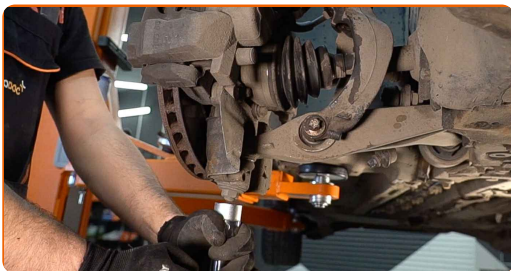
46 Remove the support from under the arm.



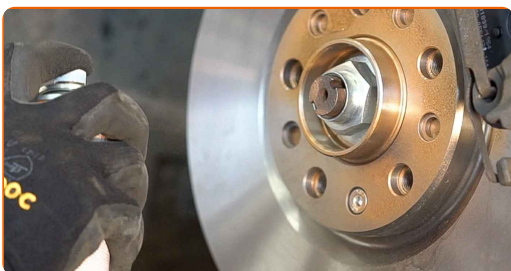
AUTODOC recommends:

- ALFA ROMEO 159 Saloon (939) – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

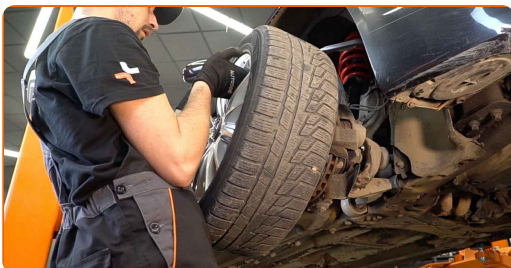
47 Treat the shock strut fasteners. Use copper grease.



48 Clean the wheel rim mounting seat. Use a wire brush. Treat the contacting surface. Use copper grease.



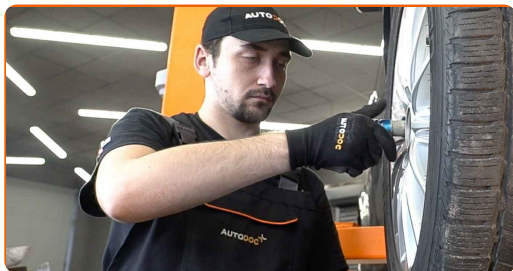
49 Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. ALFA ROMEO 159 Saloon (939)

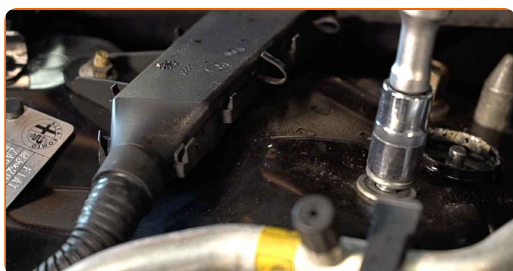
50 Screw in the wheel bolts. Use wheel impact socket #17.



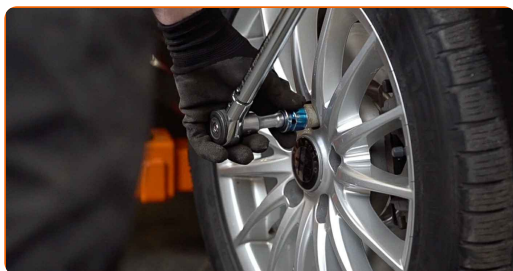
51 Lower the car.



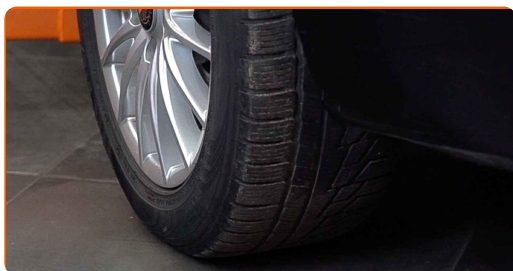
52 Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #16. Use a torque wrench. Tighten it to 44 Nm torque.



53 Tighten the wheel bolts using a criss-cross pattern. Use a torque wrench. Tighten it to 120 Nm torque.



54 Remove the jacks and chocks.



55 Remove the fender protection cover.

56 Close the hood.

WELL DONE! 

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