



How to change rear
suspension strut on **ALFA
ROMEO GTV (916C_)** –
replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

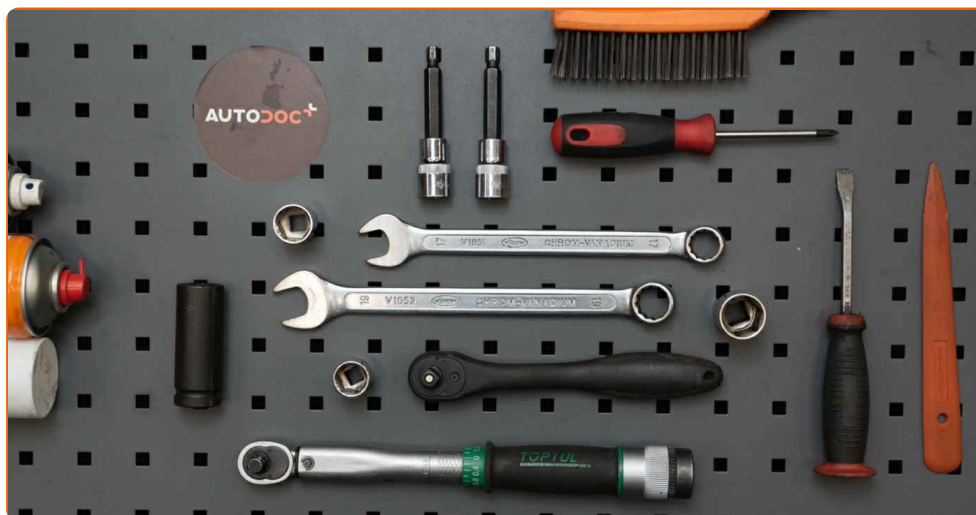
Important!

This replacement procedure can be used for:
ALFA ROMEO GTV (916C_) 2.0 JTS

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 147 (937) 1.6 16V T.SPARK

REPLACEMENT: SUSPENSION STRUT – ALFA ROMEO GTV (916C_). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #17
- Combination spanner #19
- Drive socket # 17
- Drive socket # 19
- Drive socket # 22
- HEX bit No.H5
- HEX bit No.H6
- Wheel impact socket #17
- Ratchet wrench
- Phillips screwdriver
- Plastic trim tool
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Wheel chock

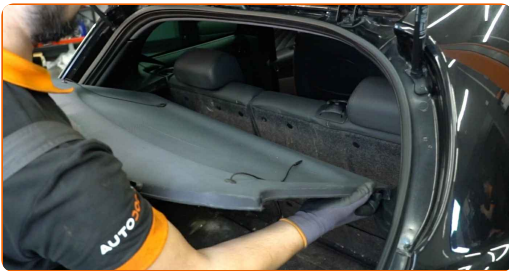
Buy tools

Replacement: suspension strut – ALFA ROMEO GTV (916C_). AUTODOC experts recommend:

- Both shock struts of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the rear suspension.
- Please note: all work on the car – ALFA ROMEO GTV (916C_) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

- 1 Secure the wheels with chocks.
- 2 Open the boot lid.
- 3 Move the folding shelf and detach it from the retainers. By doing this, you will get access to the side trim plastic panels.



- 4 Remove the rear seat backrest.



5 Unscrew the fastener of the central protective plastic panel. Use a Phillips screwdriver.



6 Loosen the hooks that secure the boot lining. Use HEX No.H5. Use a ratchet wrench.



7 Remove the central protective plastic panel.



8 Remove the luggage compartment trim.



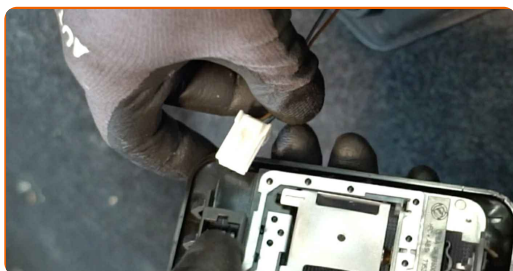
9 Remove the rubber strip.



10 Remove the interior boot light. Use a plastic trim tool.



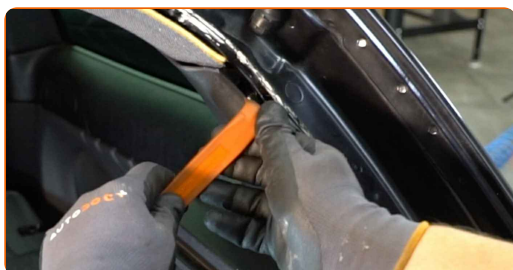
11 Detach the bulb connector.



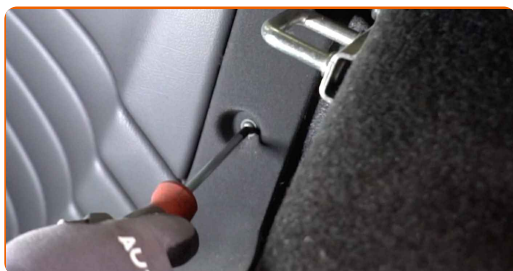
12 Unscrew the fastener of the boot side lining. Use a Phillips screwdriver.



13 Detach the boot side lining. Use a plastic trim tool.



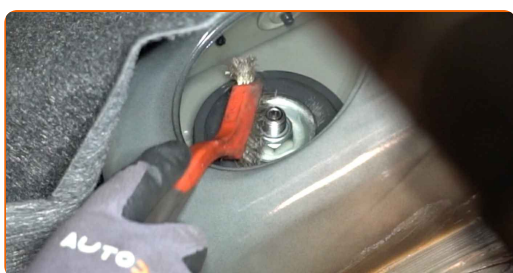
14 Unscrew the fasteners of the side plastic trim panel. Use a Phillips screwdriver.



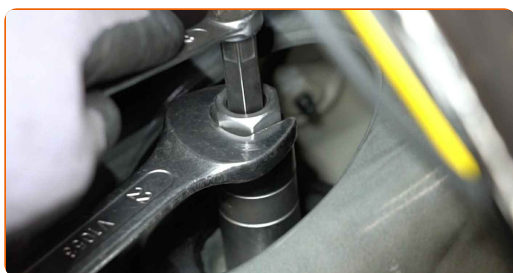
15 Remove the side plastic cover.



16 Clean the upper fastener of the suspension strut mount. Use WD-40 spray.



17 Loosen the upper fastener of the shock strut mount. Use HEX No.H6. Use a drive socket #22. Use a ratchet wrench.



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



19 Raise the rear of the car and secure on supports.

20 Unscrew the wheel bolts.



AUTODOC recommends:

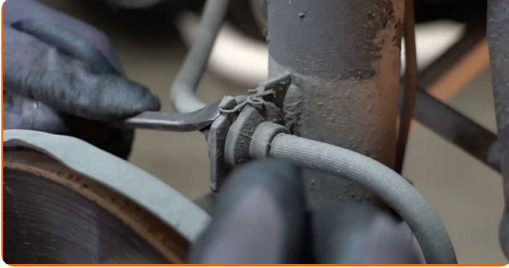
- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
ALFA ROMEO GTV (916C_)

21 Remove the wheel.



22

Remove the fastener attaching the brake hose to the shock strut. Use a crowbar.

**23**

Detach the brake hose from the shock strut.

**24**

Disconnect the ABS sensor wiring.

**25**

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



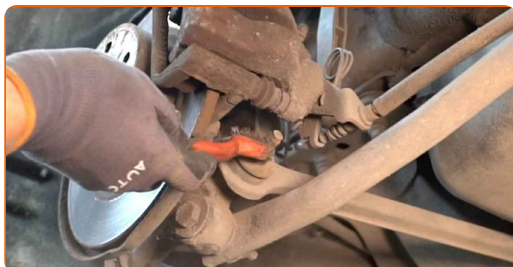
- 26** Unscrew the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #17. Use HEX No.H5. Use a ratchet wrench.



- 27** Remove the stabiliser link.



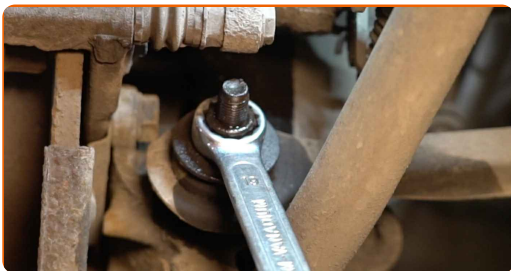
- 28** Clean the fastener that connects the suspension strut to the stub axle. Clean the control arm fasteners. Use a wire brush. Use WD-40 spray.



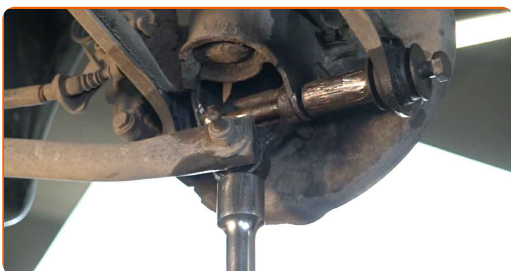
- 29** Unscrew the fastener that connects the suspension strut to the rear knuckle. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



30 Unscrew the fastener that connects the suspension arm to the stub axle. Use a combination spanner #19.



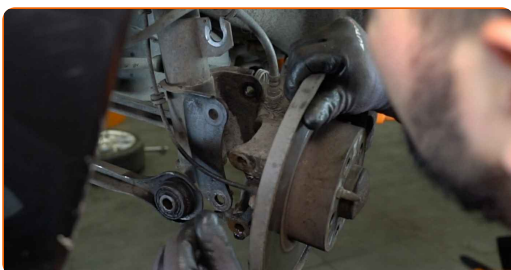
31 Support the rear knuckle. Use a hydraulic transmission jack.



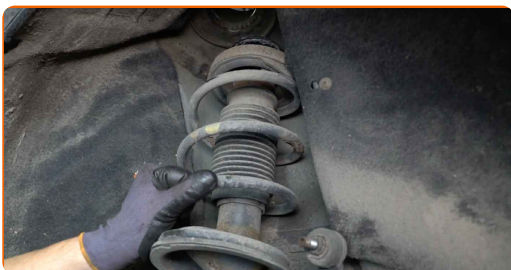
32 Remove the fastening bolts.



33 Detach the shock absorber from the rear knuckle.



34 Remove the assembled shock strut. Use a crowbar.



35

Set the shock absorber strut on the spring compressor tool.



Replacement: suspension strut – ALFA ROMEO GTV (916C_). 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.

36

Compress the spring.



37

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



38

Remove the strut piston rod nut. Use a drive socket #22. Use HEX No.H6. Use a ratchet wrench.



39

Remove the top strut mount.

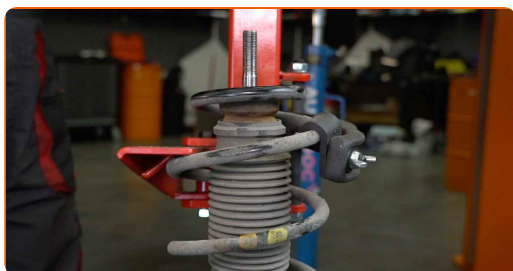


AUTODOC recommends:

- Replacement: suspension strut – ALFA ROMEO GTV (916C_). Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

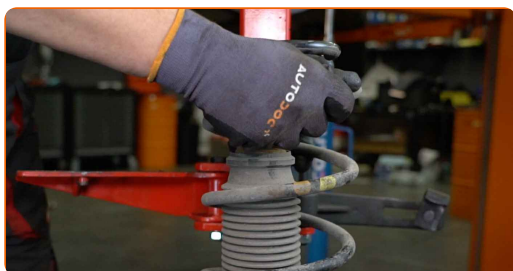
40

Release the coil spring.

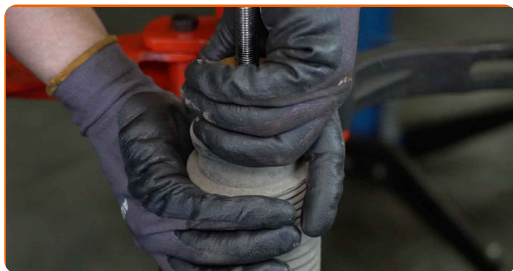


41

Remove the spring.



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



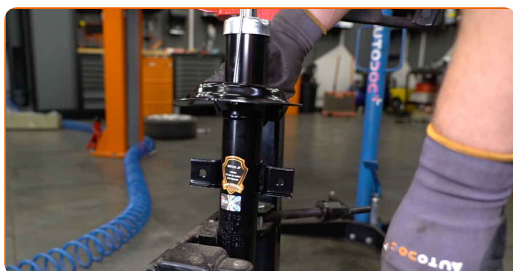
43 Remove the old shock absorber from the hydraulic coil spring compressor.



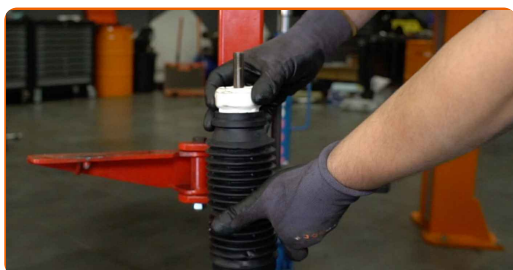
Replacement: suspension strut – ALFA ROMEO GTV (916C_). Tip from AUTODOC experts:

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

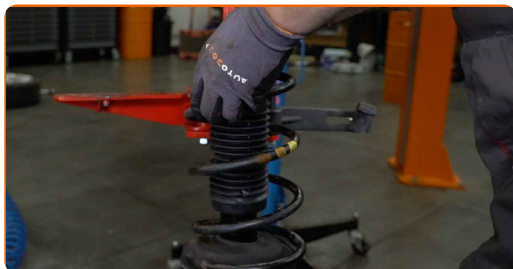
44 Install the new shock absorber on the hydraulic coil spring compressor.



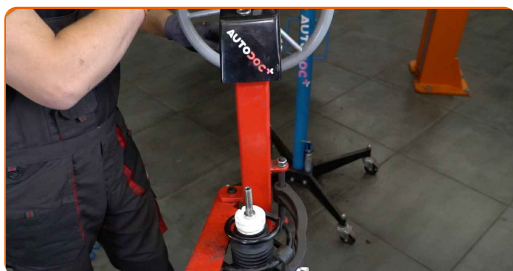
45 Install the dust sleeve and the bump stop on the new shock absorber.



46 Install the spring on the shock absorber.



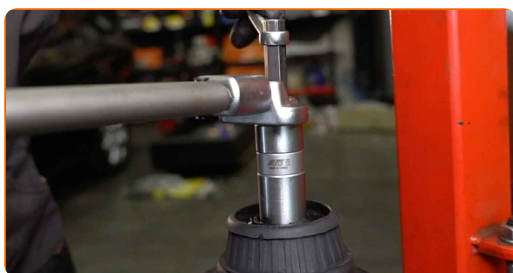
47 Compress the spring.



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



49 Tighten the shock strut piston rod nut. Use a drive socket #22. Use HEX No.H6. Use a torque wrench. Tighten it to 65 Nm torque.



Replacement: suspension strut – ALFA ROMEO GTV (916C_). Tip from AUTODOC:

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

50

Decompress the spring.

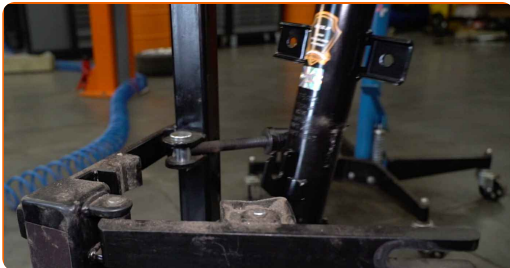
51

Treat the shock strut rod. Use copper grease.



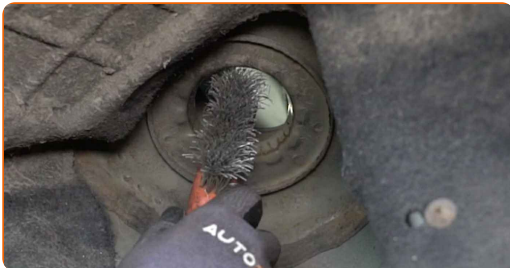
52

Remove the assembled shock strut.



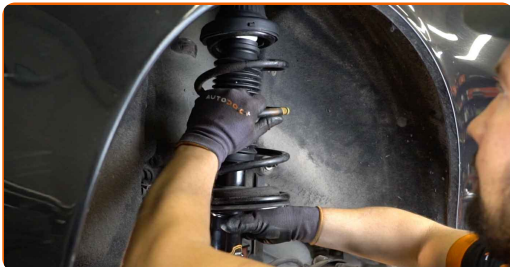
53

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



54

Install the shock strut into the wheel arch.

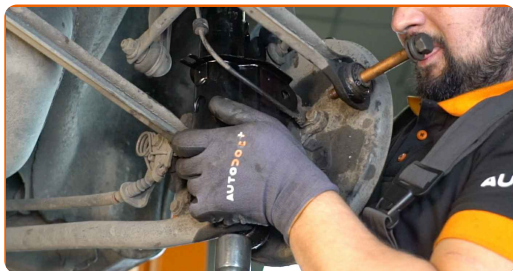


AUTODOC recommends:

- ALFA ROMEO GTV (916C_) – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

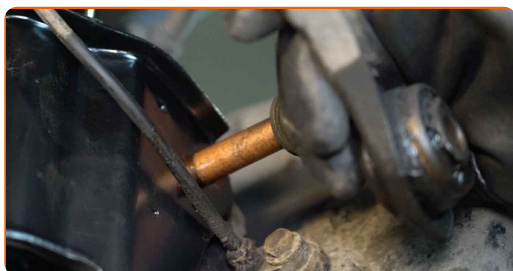
55

Attach the shock absorber to the rear knuckle.



56

Install the fastening bolts.



57

Raise the hydraulic transmission jack by 10-15 cm.

58

Screw in the fastener that connects the suspension arm to the stub axle. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.

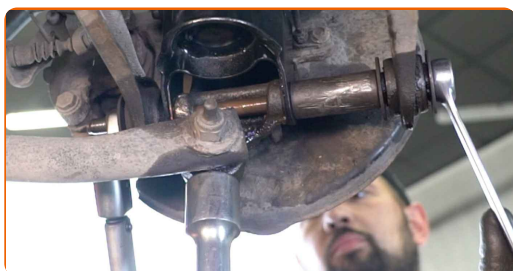


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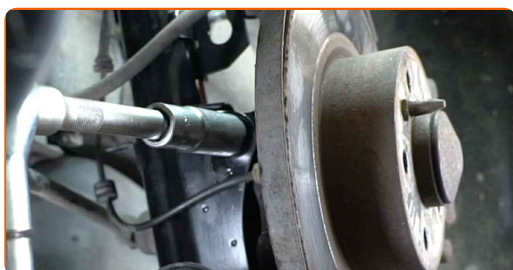
Screw in the fastener connecting the shock absorber to the rear knuckle. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



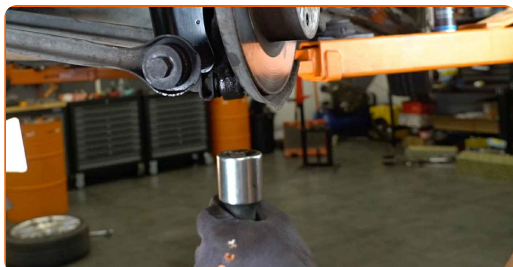
- 60** Tighten the fastener that connects the suspension arm to the stub axle. Use a combination spanner #19. Use a drive socket #19. Use a torque wrench. Tighten it to 115 Nm torque.



- 61** Tighten the fastener that connects the suspension strut to the rear knuckle. Use a combination spanner #19. Use a drive socket #19. Use a torque wrench. Tighten it to 115 Nm torque.



- 62** Remove the support from under the rear knuckle.

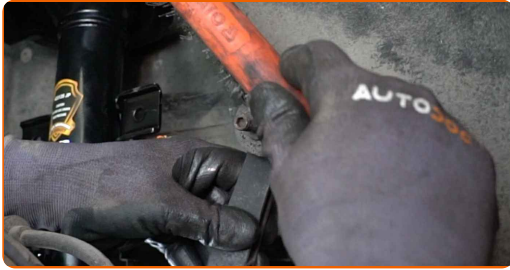


AUTODOC recommends:

- Replacement: suspension strut – ALFA ROMEO GTV (916C_). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

63

Clean the mounting seats of the stabiliser link. Use a wire brush. Use WD-40 spray.



64

Install the transverse stabilizer link.



65

Tighten the stabiliser link fastener. Use a combination spanner #17. Use HEX No.H5. Use a ratchet wrench.



66

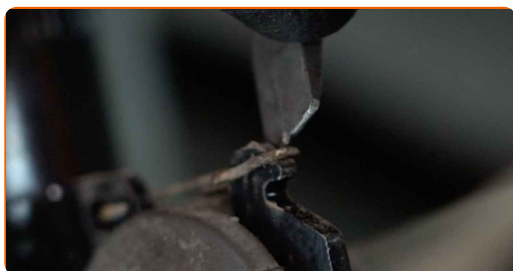
Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a torque wrench. Tighten it to 55 Nm torque.



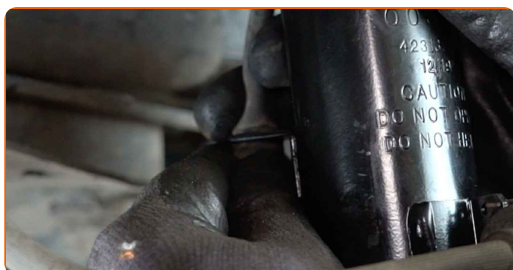
67 Fasten the brake hose on the strut.



68 Install the brake hose retaining clip. Use a crowbar.



69 Connect the ABS sensor wiring.



70 Treat the shock strut fasteners. Treat all joints of the stabiliser link. Treat the rear knuckle fasteners. Use copper grease.



71 Clean the wheel rim mounting seat. Use a wire brush.



72

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



73

Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: suspension strut – ALFA ROMEO GTV (916C_). After applying the spray, wait a few minutes.

74

Install the wheel.



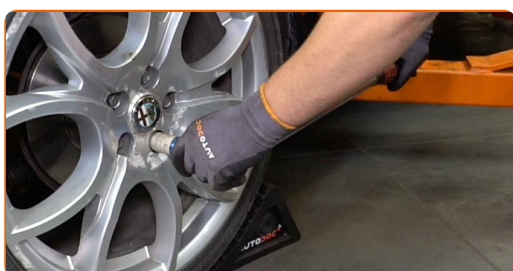
AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. ALFA ROMEO GTV (916C_)

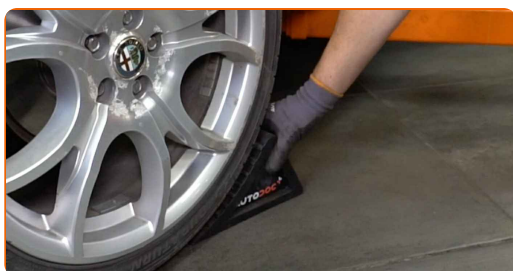
75 Screw in the wheel bolts. Use wheel impact socket #17.



76 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 108 Nm torque.



77 Remove the jacks and chocks.

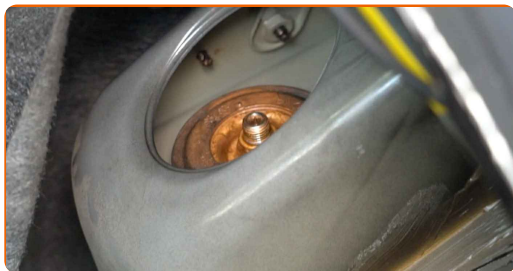


78 Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #22. Use HEX No.H6. Use a torque wrench. Tighten it to 65 Nm torque.

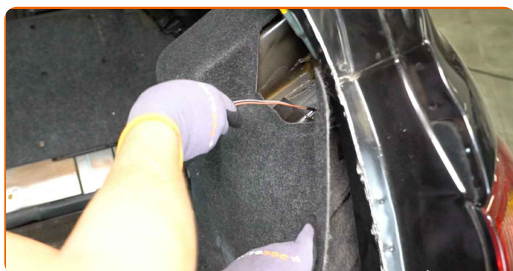


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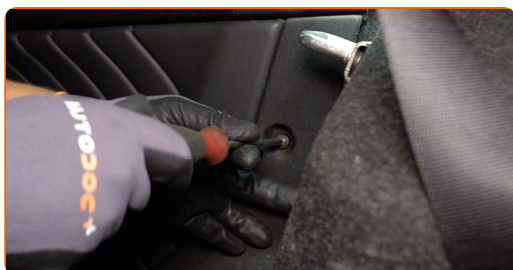
Treat the upper fastener of the suspension strut mount. Use copper grease.

**80**

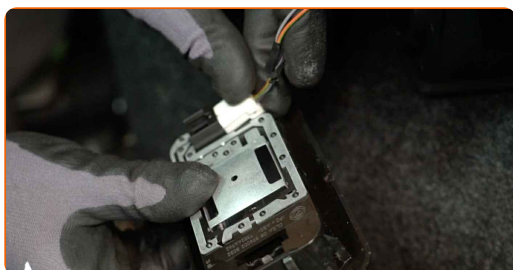
Attach the side lining of the boot.

**81**

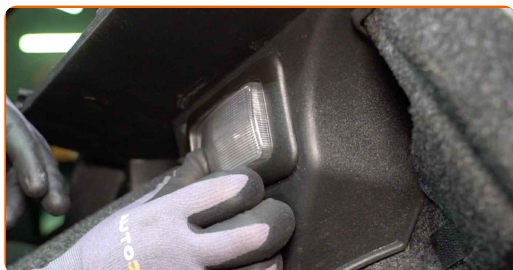
Screw in the fastener of the boot side lining. Use a Phillips screwdriver.

**82**

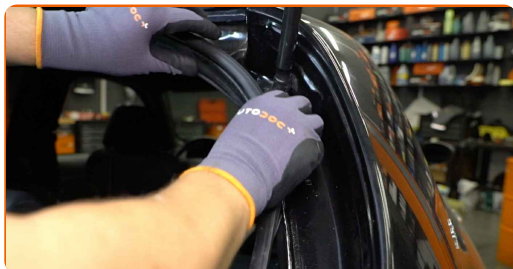
Attach the bulb connector.

**83**

Install the interior boot light.



84 Install the rubber strip.



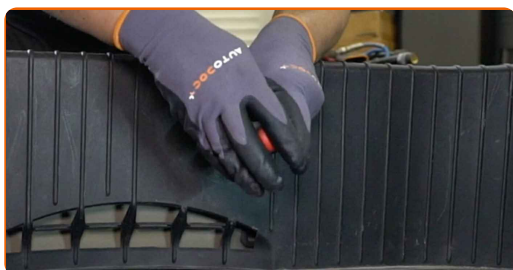
85 Install the side plastic panel.

86 Screw the fasteners of the side plastic trim panel. Use a Phillips screwdriver.

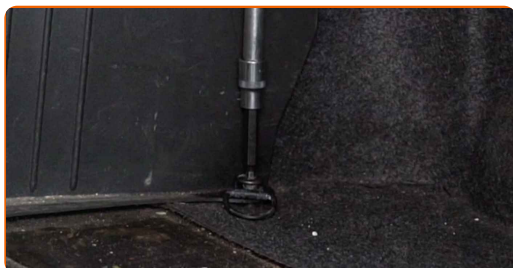
87 Install the central protective plastic panel.



88 Screw in the fastener of the central protective plastic panel. Use a Phillips screwdriver.



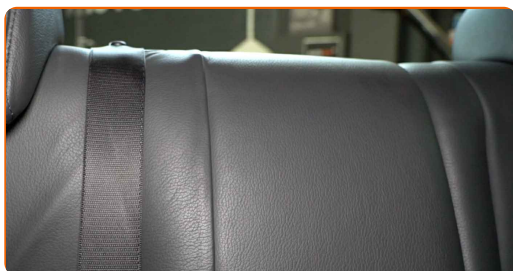
89 Tighten the hooks that secure the boot lining. Use HEX No.H5. Use a ratchet wrench.



90 Install the luggage compartment trim.



91 Return the seat to its original position.



92 Install the folding shelf to its mounting seat.



93 Close the lid of the luggage compartment.

WELL DONE! 

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