



How to change front
suspension strut on **Alfa
Romeo 147 937** –
replacement guide

VIDEO TUTORIAL



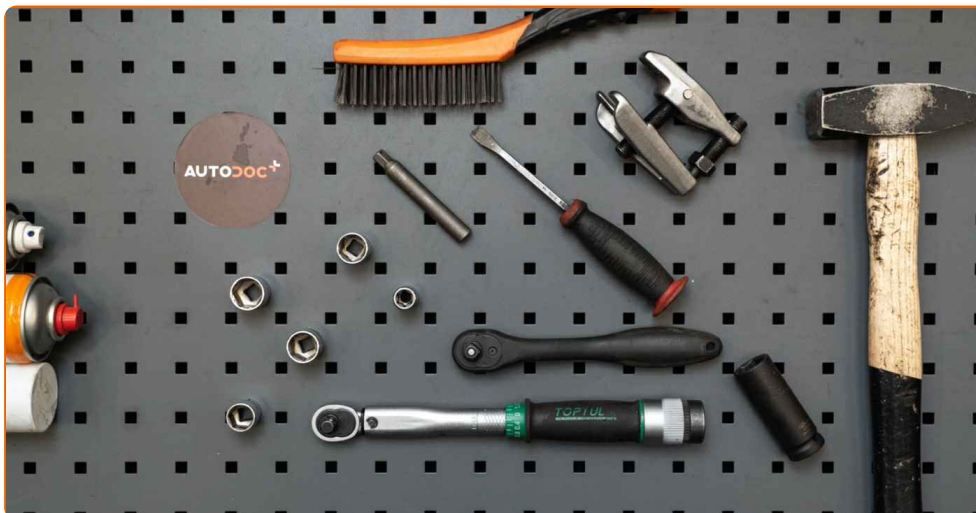
Important!

This replacement procedure can be used for:

ALFA ROMEO 156 Saloon (932) 1.6 16V T.SPARK, ALFA ROMEO 156 Saloon (932) 1.8 16V T.SPARK, ALFA ROMEO 156 Saloon (932) 2.0 16V T.SPARK, ALFA ROMEO 156 Saloon (932) 2.5 V6 24V, ALFA ROMEO 156 Saloon (932) 1.9 JTD, ALFA ROMEO 156 Saloon (932) 2.4 JTD, ALFA ROMEO GT (937) 2.0 JTS, ALFA ROMEO 156 Sportwagon (932) 1.6 16V T.SPARK., ALFA ROMEO 156 Sportwagon (932) 1.8 16V T.SPARK, ALFA ROMEO 156 Sportwagon (932) 2.0 16V T.SPARK, ALFA ROMEO 156 Sportwagon (932) 2.5 V6 24V, ALFA ROMEO 156 Sportwagon (932) 1.9 JTD, ALFA ROMEO 156 Sportwagon (932) 2.4 JTD, ALFA ROMEO 147 (937) 2.0 16V T.SPARK, ALFA ROMEO 147 (937) 1.6 16V T.SPARK ECO, (+ 19)

The steps may slightly vary depending on the car design.

**REPLACEMENT: SUSPENSION STRUT – ALFA ROMEO
147 937. LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #19
- Drive socket # E14
- Drive socket # 16
- Drive socket # 17
- Drive socket # 18
- Drive socket # 19
- Wheel impact socket #17
- Ratchet wrench
- Shock absorber socket # DD6
- Ball joint puller
- Hammer
- Tap wrench
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Crow bar
- Fender cover
- Wheel chock

BUY TOOLS

Replacement: suspension strut – Alfa Romeo 147 937. 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.
- Please note: all work on the car – Alfa Romeo 147 937 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

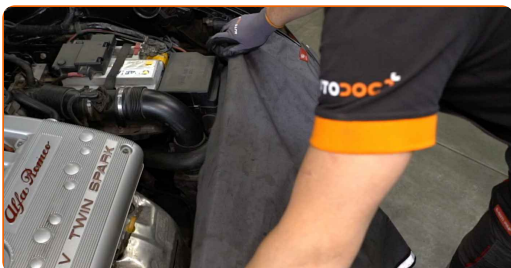
1

Open the bonnet.

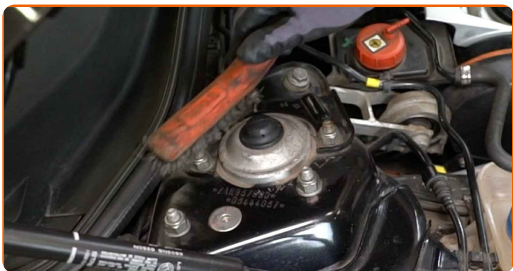


2

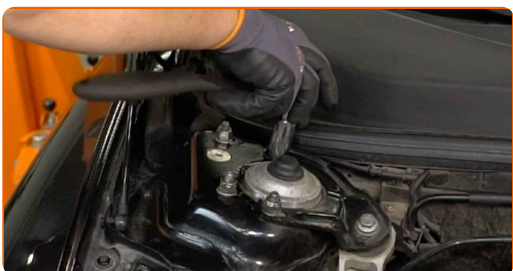
Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



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



4 Unscrew the upper fasteners of the shock strut. Use a drive socket #17. Use a ratchet wrench.

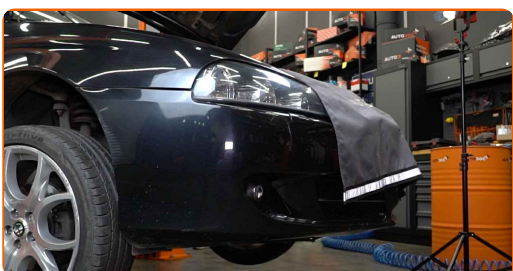


5 Secure the wheels with chocks.

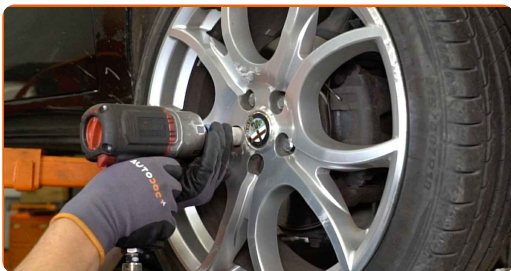
6 Loosen the wheel mounting bolts. Use wheel impact socket #17.



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



8 Unscrew the wheel bolts.



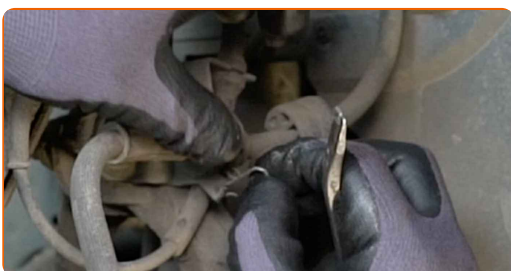
AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Alfa Romeo 147 937

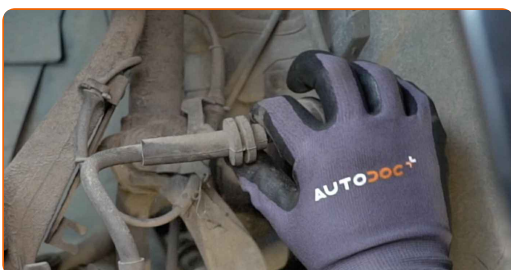
9 Remove the wheel.



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

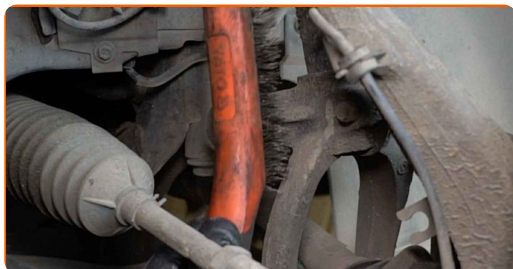


11 Detach the brake hose from the shock strut.



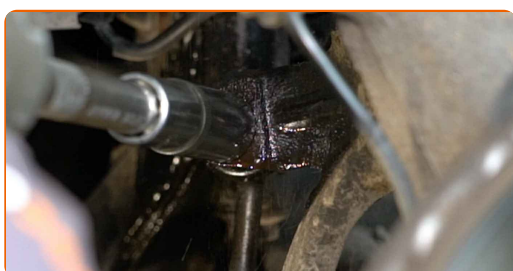
12

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



13

Undo the fastening nut that attaches the stabilizer link to the shock absorber fork. Use a drive socket #17. Use a ratchet wrench.



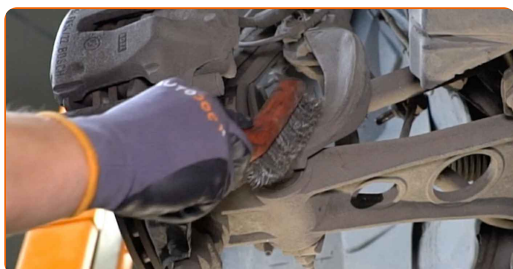
14

Remove the stabilizer rod.



15

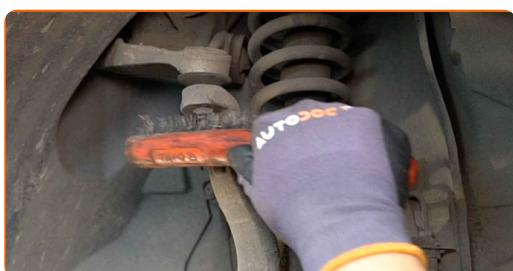
Clean the fastening bolt that connects the shock absorber fork with the lower control arm. Use a wire brush. Use WD-40 spray.



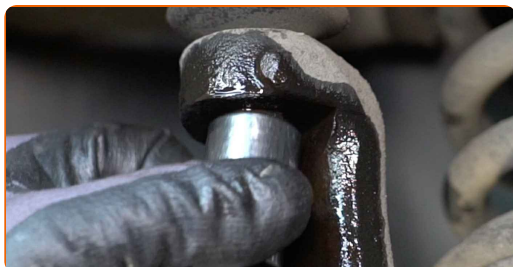
- 16 Unscrew the fastening bolt that connects the shock absorber fork with the lower control arm. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



- 17 Clean the control arm fasteners. Use a wire brush. Use WD-40 spray.



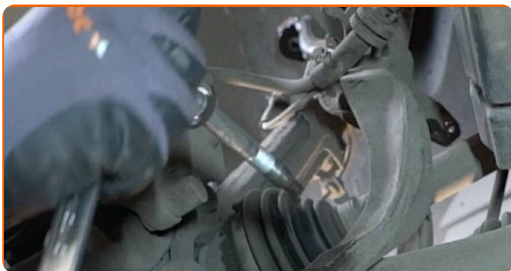
- 18 Unscrew the fastener that connects the suspension arm to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



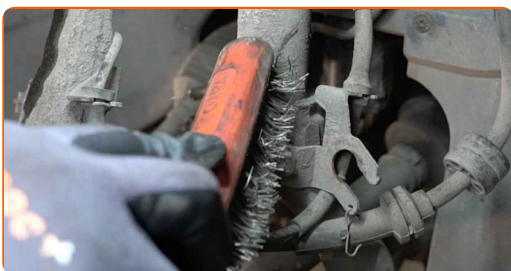
- 19 Disconnect the ball joint from the steering knuckle. Use a ball joint puller.



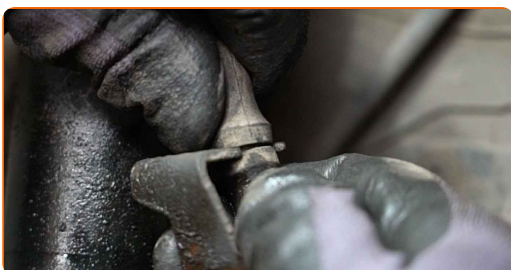
20 Remove the fastening bolt.



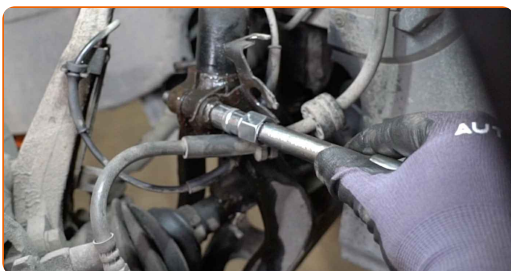
21 Clean the fastener that attaches the shock absorber fork to the shock strut. Use a wire brush. Use WD-40 spray.



22 Disconnect the ABS sensor wiring.

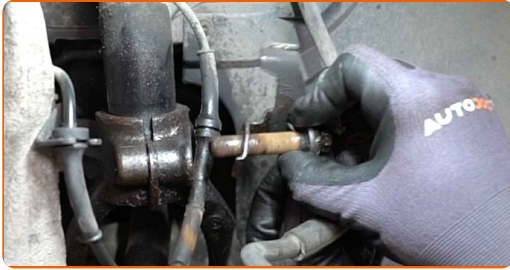


23 Unscrew the fastening bolt that connects the shock strut with the shock absorber fork. Use a drive socket #E14. Use a ratchet wrench. Use a tap wrench.



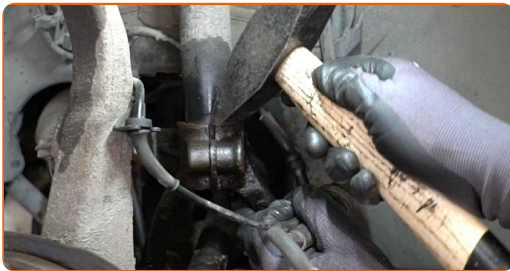
24

Remove the fastening bolt.



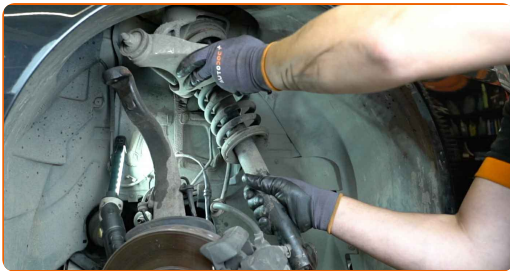
25

Detach the shock absorber fork from the shock strut. Use a hammer.



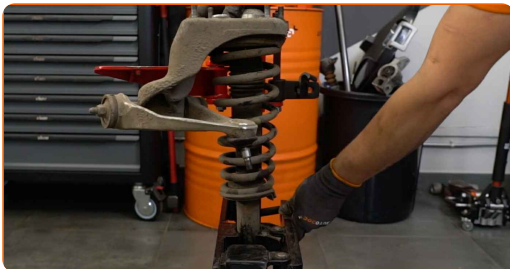
26

Remove the assembled shock strut.



27

Set the shock absorber strut on the spring compressor tool.

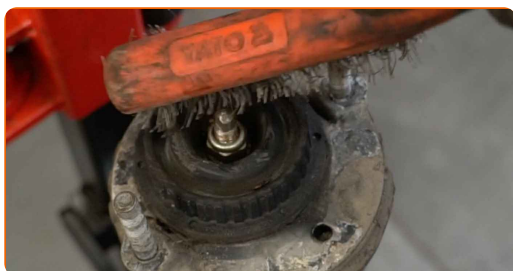


Replacement: suspension strut – Alfa Romeo 147 937. Professionals recommend:

- 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.

28

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



29

Compress the spring.

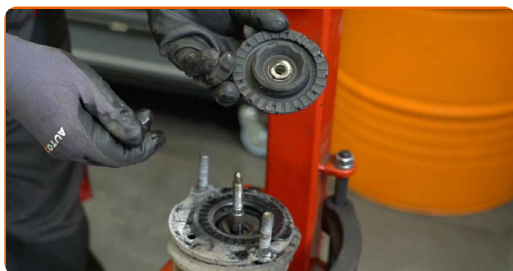


30

Remove the strut piston rod nut. Use a shock absorber socket DDN#6 Use a drive socket #17. Use a ratchet wrench.



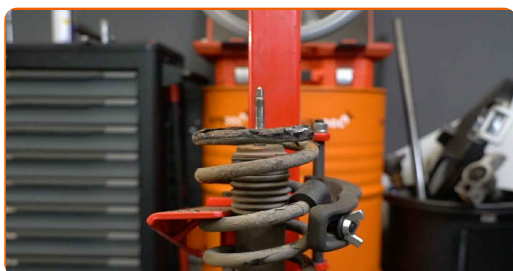
31 Remove the top strut mount.



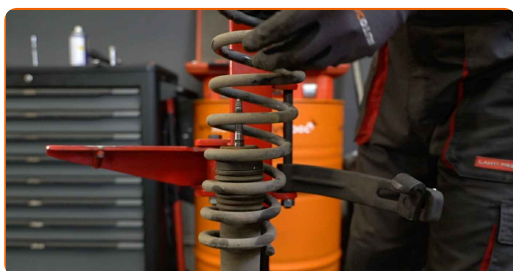
AUTODOC recommends:

- Replacement: suspension strut – Alfa Romeo 147 937. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

32 Release the coil spring.



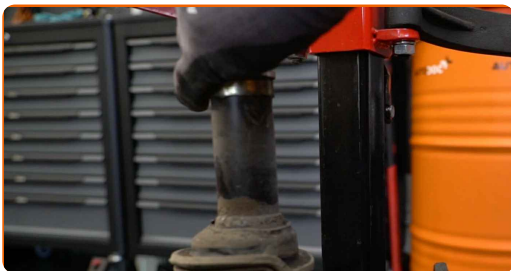
33 Remove the spring.



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



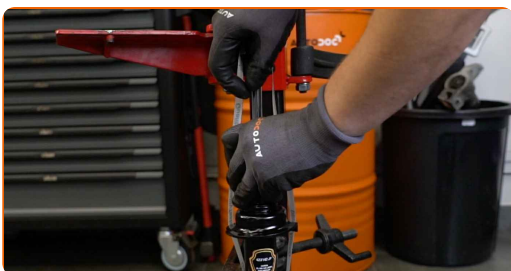
35 Remove the old shock absorber from the hydraulic coil spring compressor.



Replacement: suspension strut – Alfa Romeo 147 937. AUTODOC experts recommend:

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

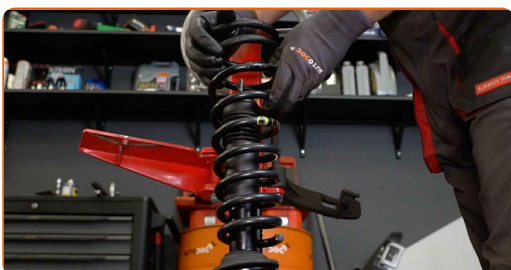
36 Install the new shock absorber on the hydraulic coil spring compressor.



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

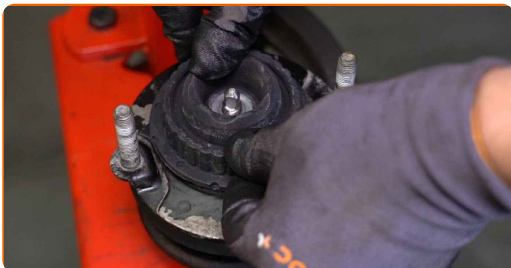


38 Install the spring on the shock absorber.



39 Compress the spring.

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



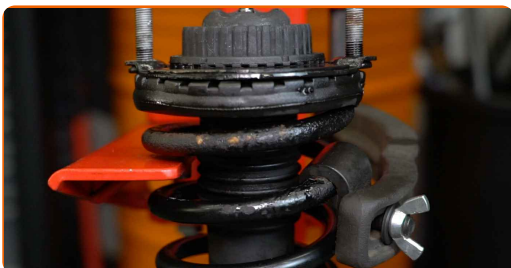
41 Tighten the shock strut piston rod nut. Use a shock absorber socket DDN^o6 Use a drive socket #16. Use a torque wrench. Tighten it to 35 Nm torque.



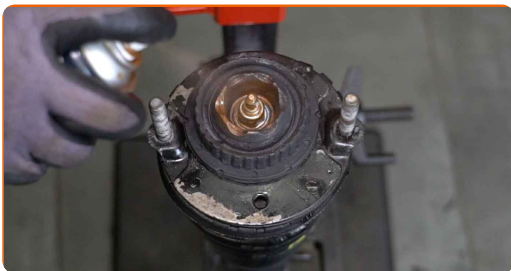
Replacement: suspension strut – Alfa Romeo 147 937. AUTODOC recommends:

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

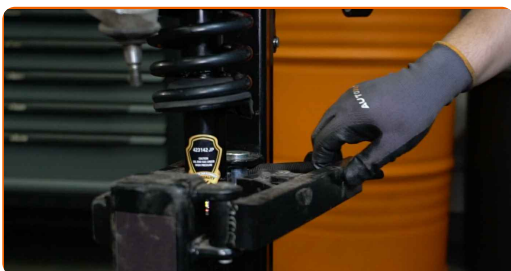
42 Decompress the spring.



43 Treat the shock strut rod. Use copper grease.



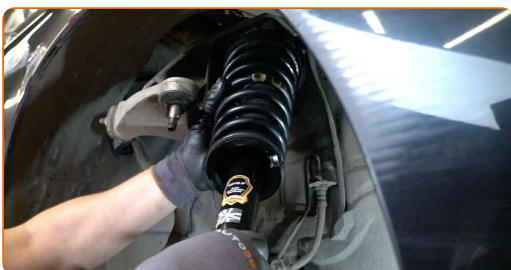
44 Remove the assembled shock strut.



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



46 Install the shock strut into the wheel arch.

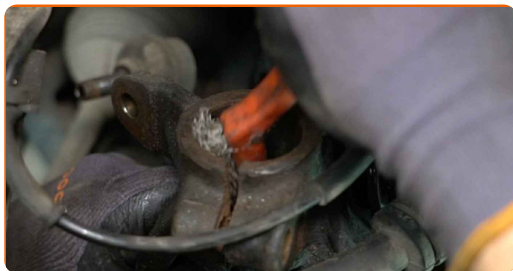


AUTODOC recommends:

- Important! Hold the suspension strut while screwing in the fastening bolts. Alfa Romeo 147 937

47

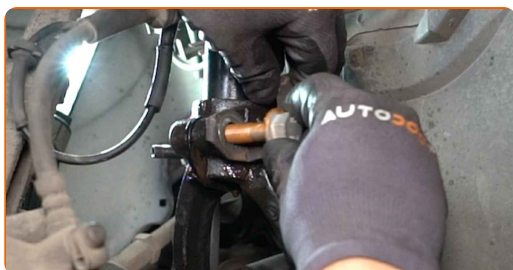
Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.

**48**

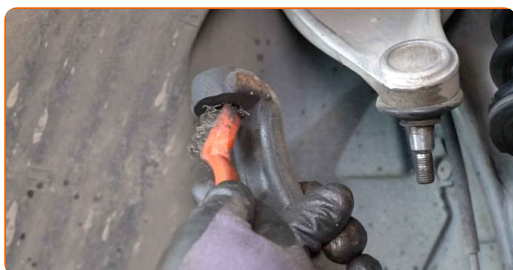
Attach the shock absorber fork to the shock strut.

**49**

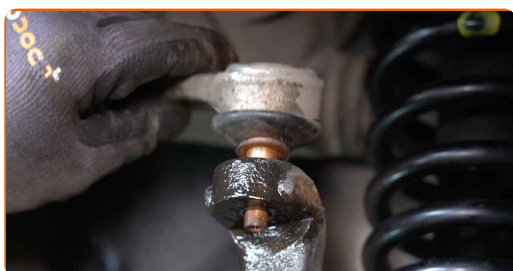
Install the fastening bolts.

**50**

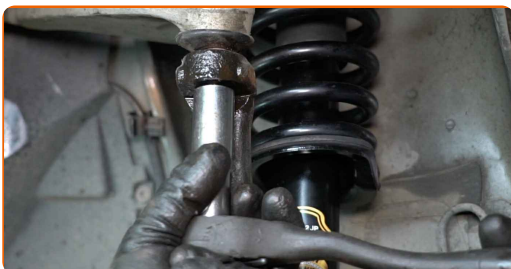
Clean the mounting seats and the thread of the suspension arm. Use a wire brush. Use WD-40 spray.

**51**

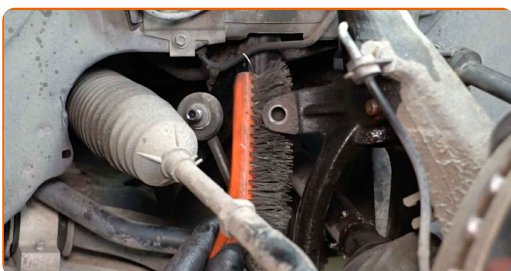
Connect the ball joint to the steering knuckle.



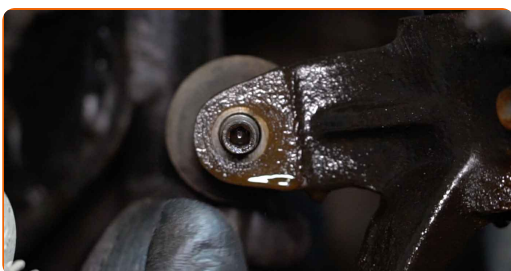
52 Screw in the fastener that connects the suspension arm to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



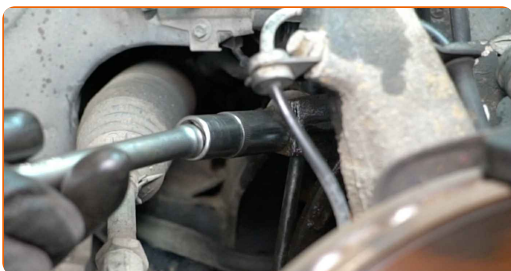
53 Clean the mounting seats of the stabiliser link. Use a wire brush. Use WD-40 spray.



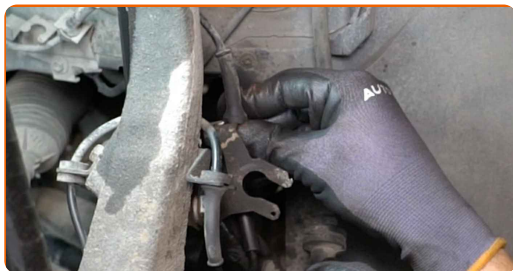
54 Install the transverse stabilizer link.



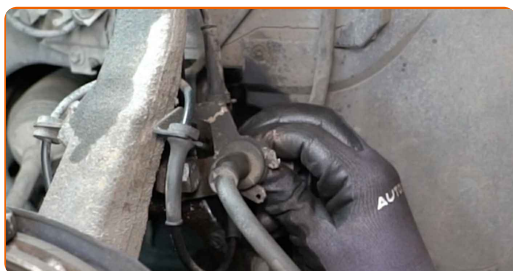
55 Tighten the stabiliser link fastener. Use a drive socket #17. Use a ratchet wrench.



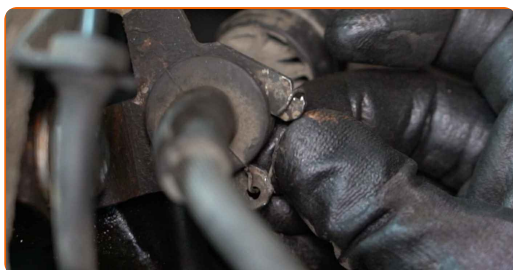
56 Connect the ABS sensor wiring.



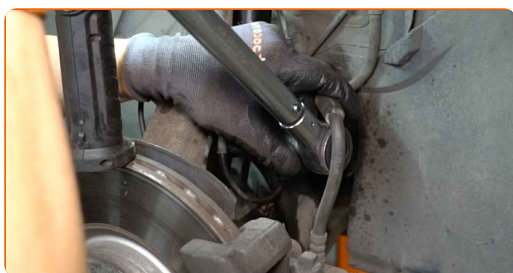
57 Fasten the brake hose on the strut.



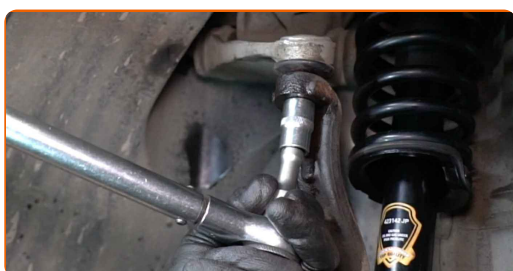
58 Install the brake hose retaining clip.



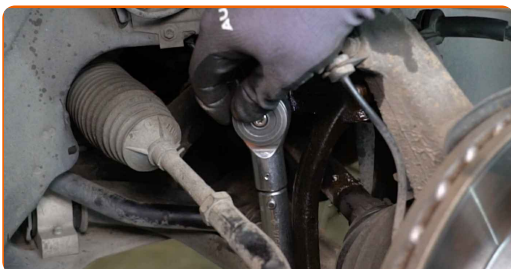
59 Tighten the fastening bolt that connects the shock strut with the shock absorber fork. Use a drive socket #18. Use a torque wrench. Tighten it to 85 Nm torque.



60 Tighten the fastener that connects the suspension arm to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 50 Nm torque.



- 61 Tighten the fastener connecting the stabilizer link with the shock absorber fork. Use a drive socket #17. Use a torque wrench. Tighten it to 55 Nm torque.



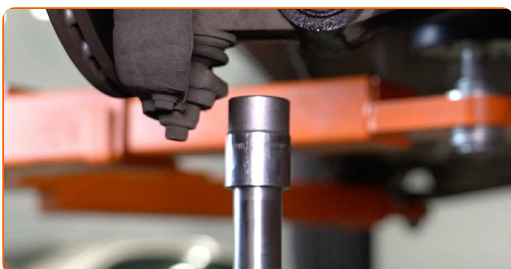
- 62 Support the arm. Use a hydraulic transmission jack.



- 63 Tighten the fastening bolt that connects the shock absorber fork to the lower control arm. Use a combination spanner #19. Use a drive socket #19. Use a torque wrench. Tighten it to 110 Nm torque.



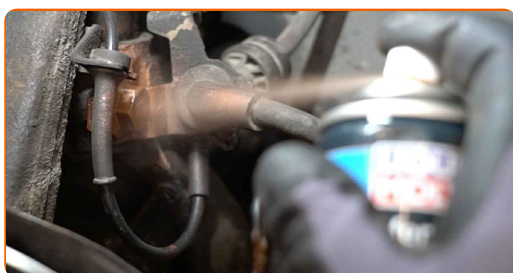
- 64 Remove the support from under the arm.



AUTODOC recommends:

- Replacement: suspension strut – Alfa Romeo 147 937. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

65 Treat the steering knuckle fasteners. Treat the shock strut fasteners. Treat all joints of the stabiliser link. Treat all joints of the arm. Use copper grease.



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

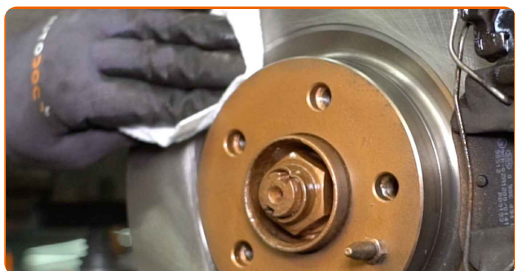


67 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



68

Clean the brake disk surface. Use a brake cleaner.

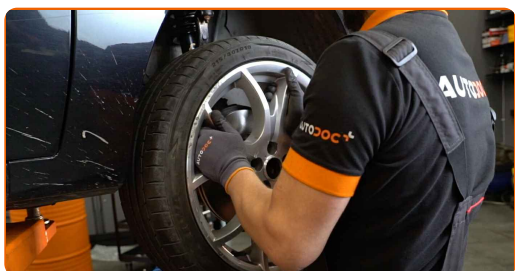


AUTODOC recommends:

- Replacement: suspension strut – Alfa Romeo 147 937. After applying the spray, wait a few minutes.

69

Install the wheel.



AUTODOC recommends:

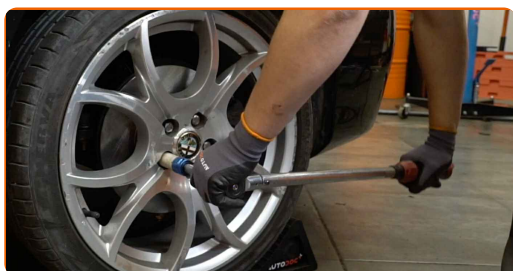
- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Alfa Romeo 147 937

70

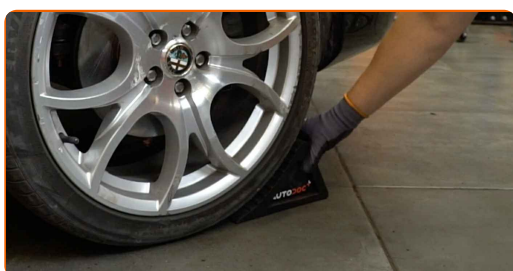
Screw in the wheel bolts. Use wheel impact socket #17.



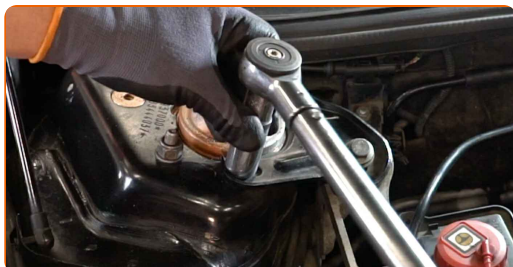
- 71 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 108 Nm torque.



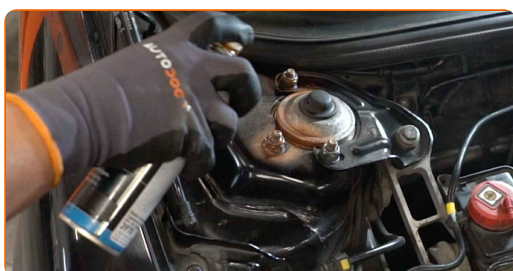
- 72 Remove the jacks and chocks.



- 73 Tighten the upper fasteners of the shock strut. Use a drive socket #17. Use a torque wrench. Tighten it to 50 Nm torque.

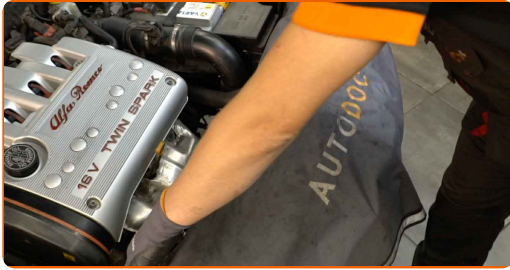


- 74 Treat the fasteners of the shock strut mount. Use copper grease.



75

Remove the fender protection cover.



76

Close the hood.



WELL DONE! 

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