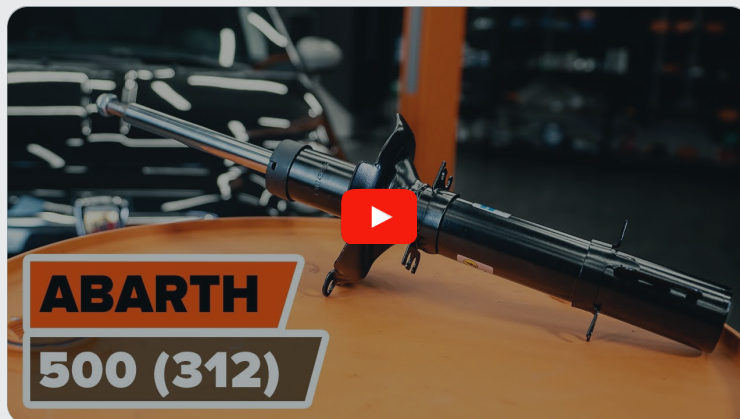




How to change front  
suspension strut on  
**Abarth 595** –  
replacement guide

## VIDEO TUTORIAL



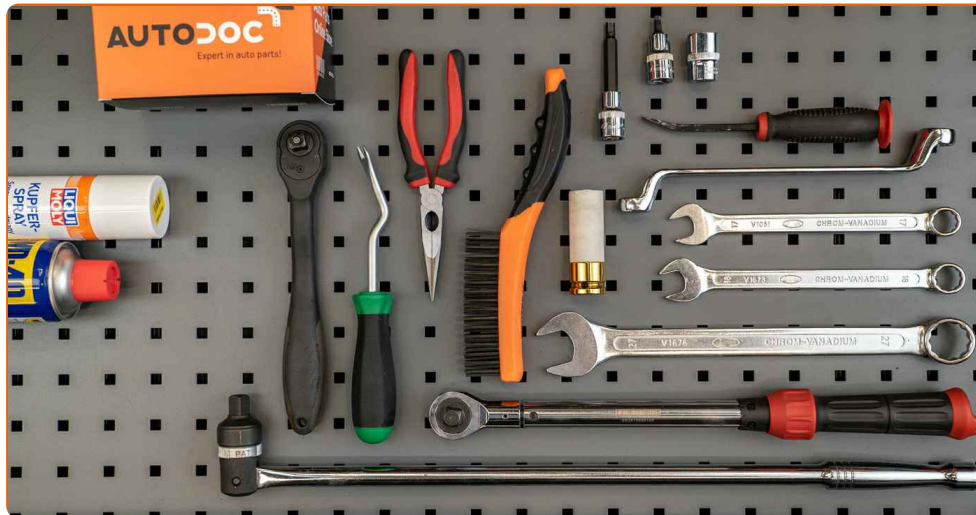
### **i Important!**

This replacement procedure can be used for:

ABARTH 500 / 595 / 695 Hatchback (312) 1.4 (312.AXF11), ABARTH 500 / 595 / 695 Hatchback (312) 1.4 (312.AXT1A), ABARTH 500 / 595 / 695 Hatchback (312) 1.4 (312.AXD1A), ABARTH 500 / 595 / 695 Hatchback (312) 1.4 (312.AXF11, 312.AXF1A, 312.AXD1A)

The steps may slightly vary depending on the car design.

REPLACEMENT: SUSPENSION STRUT – ABARTH 595.  
LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Combination spanner #19
- Combination spanner #27
- Ring spanner #17
- Ring spanner #18
- Drive socket # 15
- Drive socket # 18
- HEX bit No.H5.
- HEX bit No.H7.
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Round-nose pliers
- Clip removal tool
- Crow bar
- Hydraulic transmission jack
- Hydraulic strut spring compressor
- Fender cover
- Wheel chock

**BUY TOOLS**

Replacement: suspension strut – Abarth 595. Professionals 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.
- All work should be done with the engine stopped.

**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

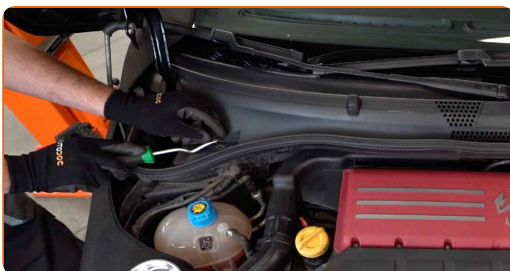
1 Open the bonnet.



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



3 Remove the clips of the plastic cowl grille. Use a clip removal tool.



4 Raise the wiper plastic cowl grille.



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



6 Unscrew the top fastening of the shock strut mount. Use a combination spanner #19. Use HEX No.H7. Use a ratchet wrench.



7 Secure the wheels with chocks.



8

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



9

Raise the front of the car and secure on supports.



10

Unscrew the wheel bolts.

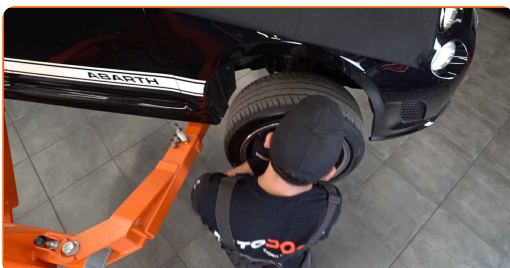


**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
Abarth 595

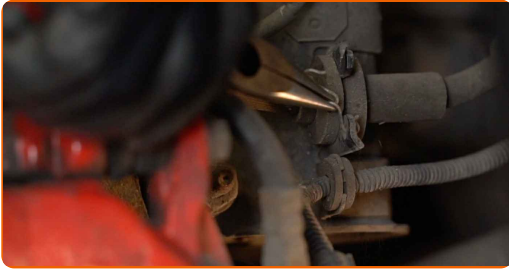
11

Remove the wheel.



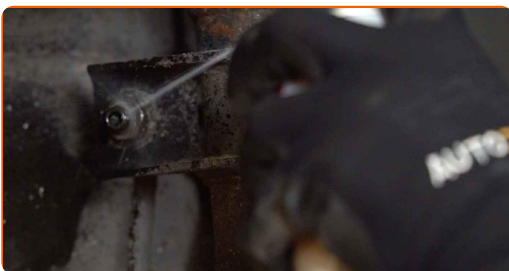
12

Disconnect the wiring and the brake hose from the bracket on the shock strut. Use round-nose pliers.



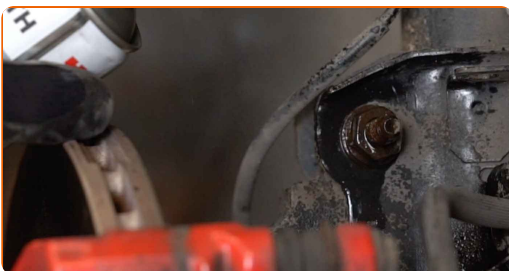
13.1

Clean the fasteners connecting the stabiliser link to the shock strut, and those connecting the shock strut to the steering knuckle.



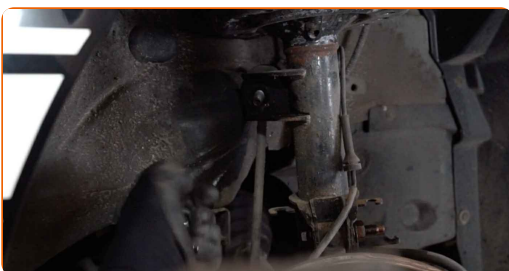
13.2

Use a wire brush. Use WD-40 spray.

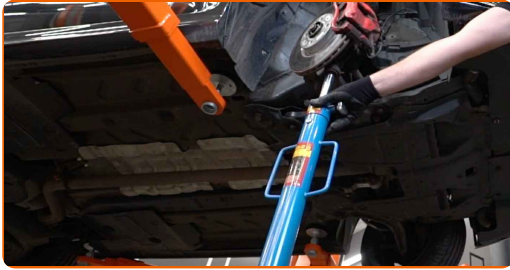


14

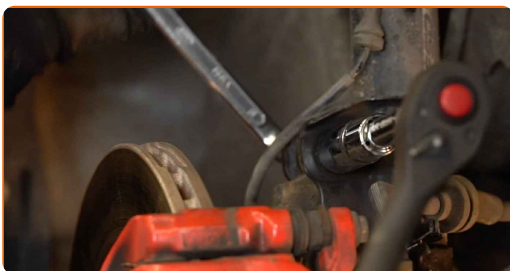
Unscrew the nut and remove the stabilizer rod from the shock strut. Use box wrench #18. Use a drive socket #18. Use HEX No.H5.



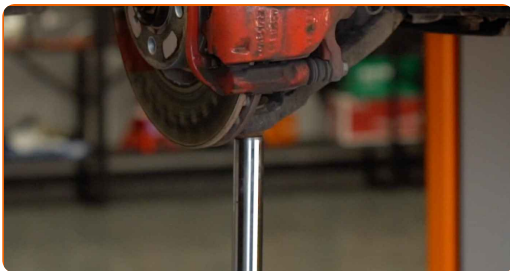
**15** Prop up the steering knuckle. Use a hydraulic transmission jack.



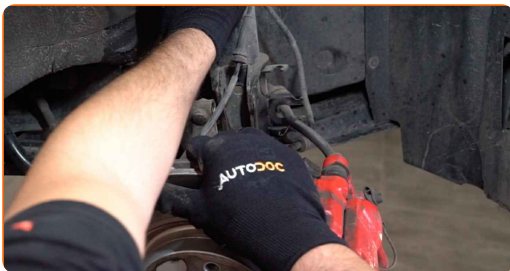
**16** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use box wrench #17. Use a drive socket #15. Use a ratchet wrench.



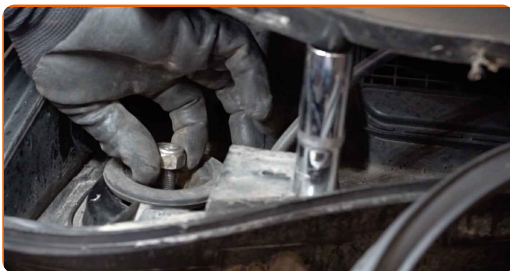
**17** Remove the support from under the steering knuckle.



**18** Disconnect the steering knuckle from the shock absorber strut.



**19** Unscrew the upper fastening of the shock absorber strut.





Replacement: suspension strut – Abarth 595. AUTODOC recommends:

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

20

Remove the suspension strut.



21

Set the shock absorber strut on the spring compressor tool.



Replacement: suspension strut – Abarth 595. 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.

22 Compress the spring.



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



24 Remove the strut piston rod nut. Use a combination spanner #27. Use HEX No.H7.



25 Remove the top strut mount.



26 Release the coil spring.



27 Remove the spring.



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

**AUTODOC recommends:**

- Replacement: suspension strut – Abarth 595. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.
- Before installing a new shock absorber you should pump it manually 3-5 times.

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



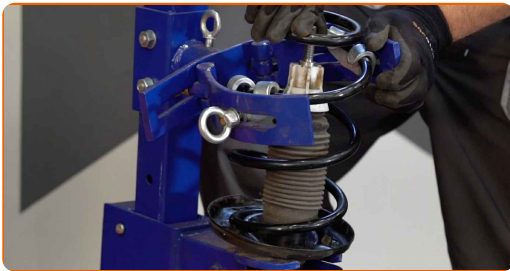
30 Install the dust sleeve and the bump stop on the new shock absorber.



31 Install the spring on the shock absorber.



32 Compress the spring.



33 Install the upper strut mount and the strut mount bearing. Use a crowbar.



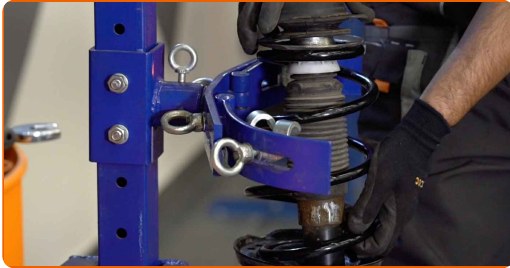
34 Tighten the shock strut piston rod nut. Use a combination spanner #27. Use HEX No.H7. Use a torque wrench. Tighten it to 60 Nm torque.



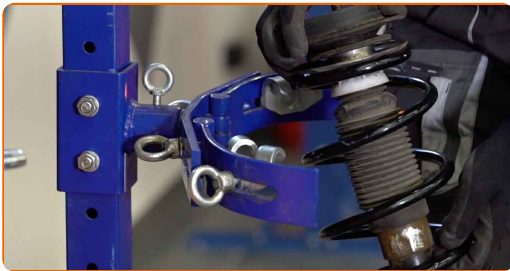
Replacement: suspension strut – Abarth 595. AUTODOC experts recommend:

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

**35** Decompress the spring.



**36** Remove the assembled shock strut.



**37** Install the shock strut into the wheel arch.



**38** Tighten the upper fastening nut of the shock absorber strut. Do not tighten it.



39

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



40

Fix the shock absorber strut on the steering knuckle. Install the new steering knuckle bolts.



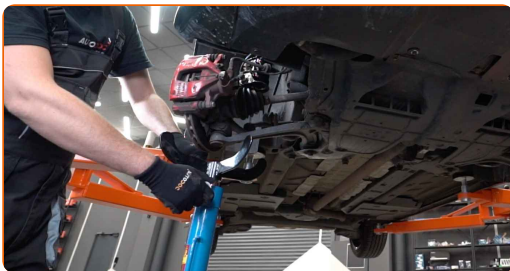
41

Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #15. Use a combination spanner #17. Use a torque wrench. Tighten it to 85 Nm torque.



42

Remove the support from under the steering knuckle.



**43** Connect the fastener of the ABS sensor cable to the shock absorber strut. Fasten the brake hose on the strut.



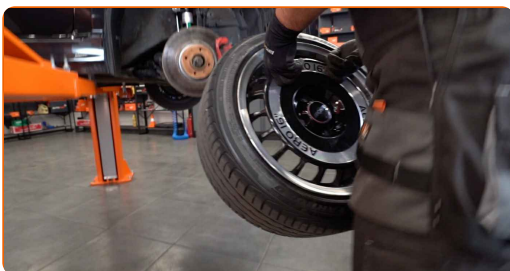
**44** Secure the stabilizer link on the suspension strut. Use box wrench #18. Use a drive socket #18. Use HEX No.H5. Use a torque wrench. Tighten it to 55 Nm torque.



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



**46** Install the wheel.



Replacement: suspension strut – Abarth 595. AUTODOC recommends:

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

47

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



48

Tighten the shock strut top mount. Use a combination spanner #19. Use HEX No.H7. Use a torque wrench. Tighten it to 50 Nm torque.



49

Install and secure the cowl grille.



50

Remove the fender protection cover.

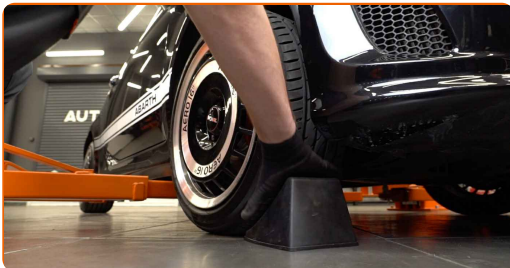




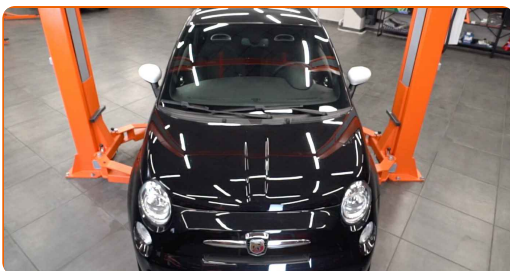
- 51 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 110 Nm torque.



- 52 Remove the jacks and chocks.



- 53 Close the hood.



**WELL DONE!** 👍

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