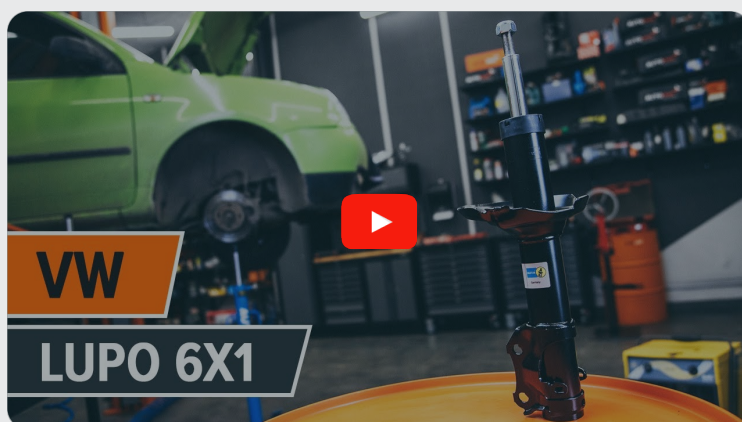




How to change front  
suspension strut on **VW  
Lupo II Hatchback (5Z1)**  
– replacement guide

## 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:

VW Lupo II Hatchback (5Z1) 1.6

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: VW Lupo (6X1, 6E1) 1.0

**REPLACEMENT: SUSPENSION STRUT – VW LUPO II HATCHBACK (5Z1). LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #18
- Drive socket # 18
- 21-mm strut nut socket
- HEX bit no.H6.
- HEX bit no.H7.
- Wheel impact socket #17
- Ratchet wrench
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

**Buy tools**

Replacement: suspension strut – VW Lupo II Hatchback (5Z1). 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 – VW Lupo II Hatchback (5Z1) – 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 shock strut fasteners. Use a wire brush. Use WD-40 spray.



**4** Loosen the upper fastener of the shock strut mount. Use HEX No.H6. Use a 21-mm strut nut socket. Use a ratchet wrench.



**5** Secure the wheels with chocks.

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

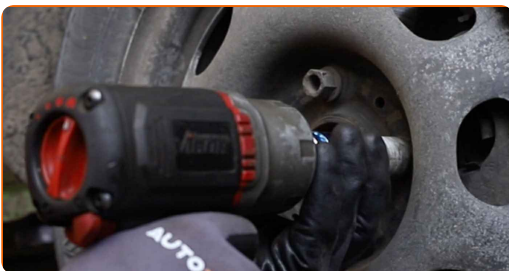


**7** Raise the car.

**Replacement: suspension strut – VW Lupo II Hatchback (5Z1). Tip:**

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

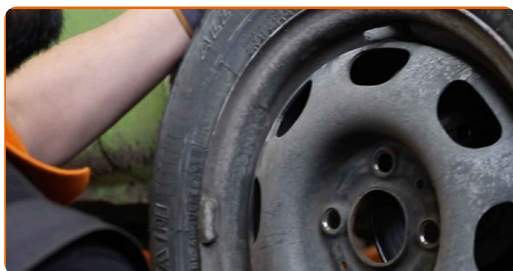
**8** Unscrew the wheel bolts.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. VW Lupo II Hatchback (5Z1)

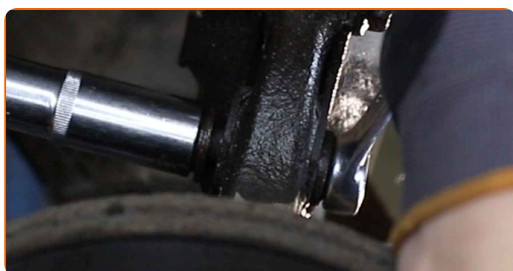
**9** Remove the wheel.



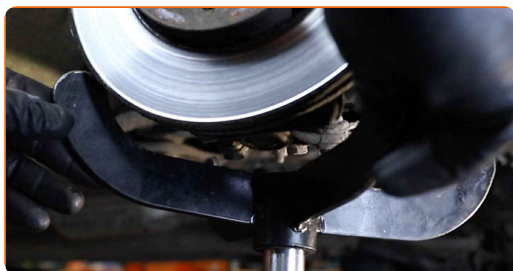
**10** Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



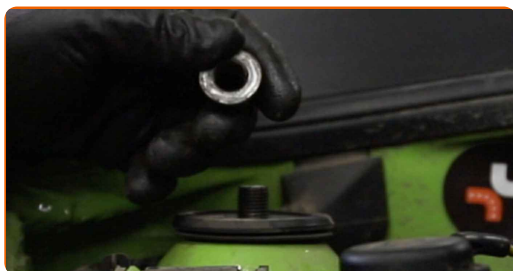
**11** Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



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



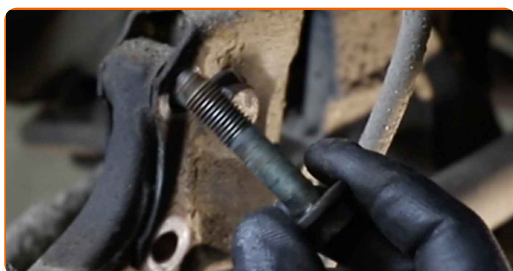
**13** Unscrew the top fastening of the shock strut mount.



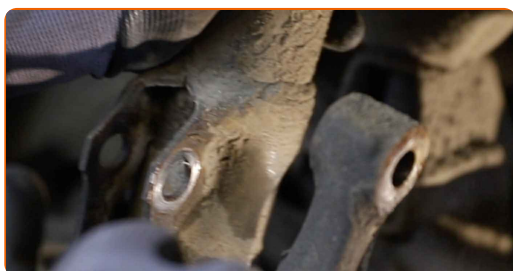
**AUTODOC recommends:**

- Important! Hold the suspension strut while unscrewing the fastening bolts. VW Lupo II Hatchback (5Z1)

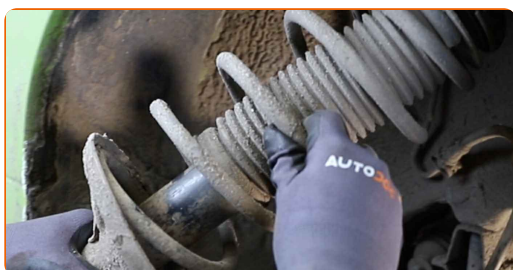
**14** Remove the fastening bolts.



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



**16** Remove the suspension strut.



**17**

Set the shock absorber strut on the spring compressor tool.

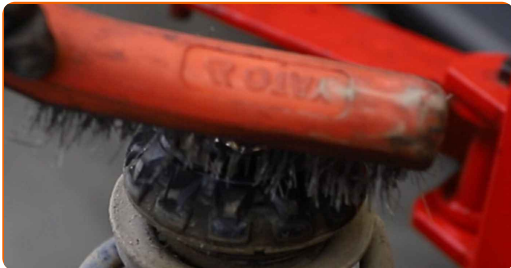


**AUTODOC recommends:**

- 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.

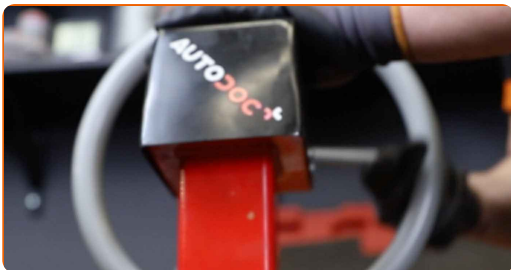
**18**

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



**19**

Compress the spring.





**20**

Remove the strut piston rod nut. Use HEX No.H6. Use a 21-mm strut nut socket. Use a ratchet wrench.

**21**

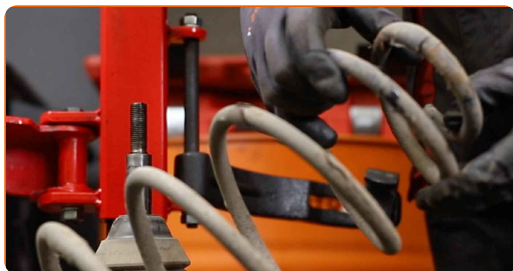
Remove the top strut mount.

**22**

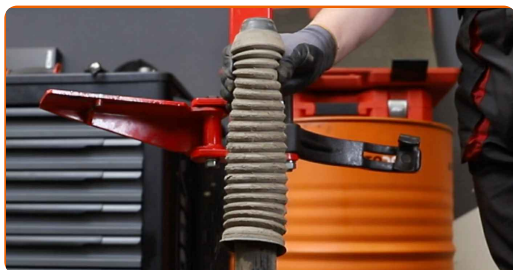
Release the coil spring.

**23**

Remove the spring.

**24**

Remove the shock absorber dust cap and the bump stop.

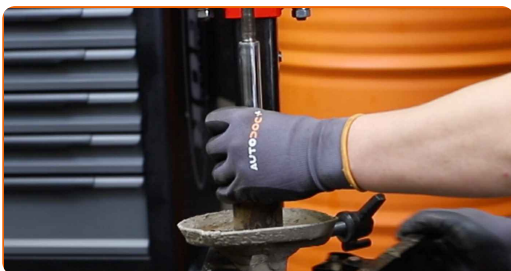


Replacement: suspension strut – VW Lupo II Hatchback (5Z1). Tip from AUTODOC:

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

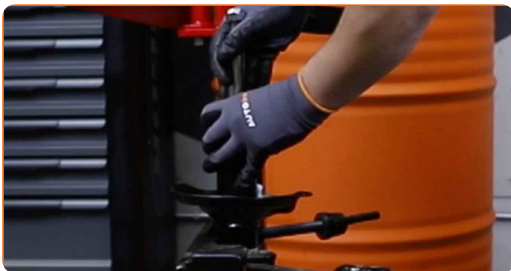
25

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



26

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

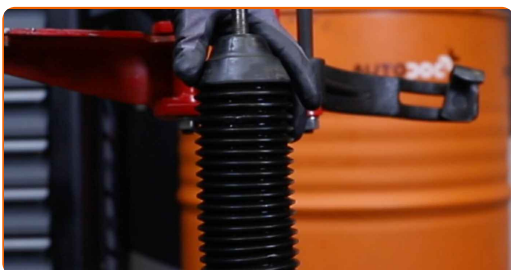


Replacement: suspension strut – VW Lupo II Hatchback (5Z1). Tip from AUTODOC experts:

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

27

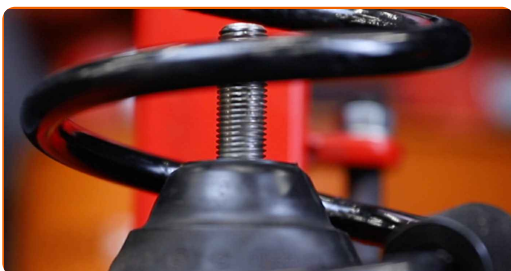
Install the dust sleeve and the bump stop on the new shock absorber.



**28** Install the spring on the shock absorber.



**29** Compress the spring.



**30** Install the upper strut mount and the strut mount bearing.



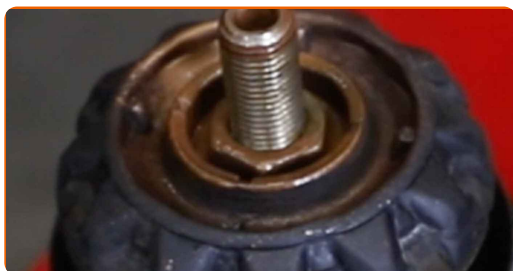
**31** Tighten the shock strut piston rod nut. Use HEX No.H7. Use a 21-mm strut nut socket. Use a torque wrench. Tighten it to 60 nm torque.



**AUTODOC recommends:**

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

**32** Treat the shock strut rod. Use copper grease.



**33** Decompress the spring.



**34** Remove the assembled shock strut.



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



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



37

Screw in the top fasteners of the suspension strut mount. Do not tighten it.



**AUTODOC recommends:**

- VW Lupo II Hatchback (5Z1) – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

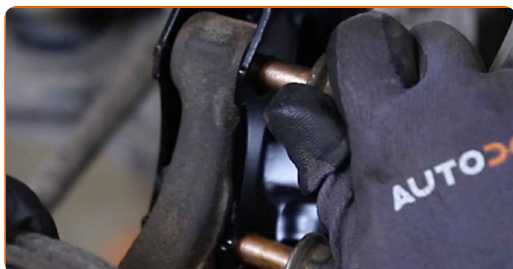
38

Fix the shock absorber strut on the steering knuckle.



39

Install the fastening bolts.



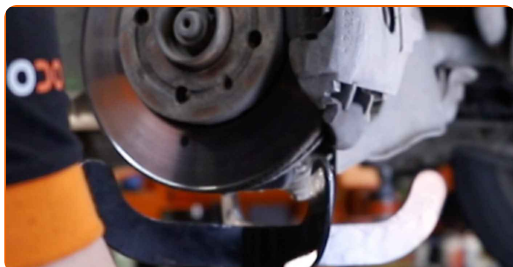
- 40** Screw in the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



- 41** 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 40 Nm torque. +90°



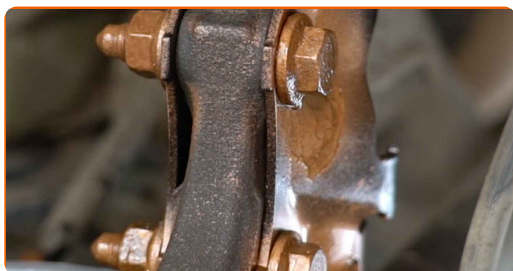
- 42** Remove the support from under the steering knuckle.



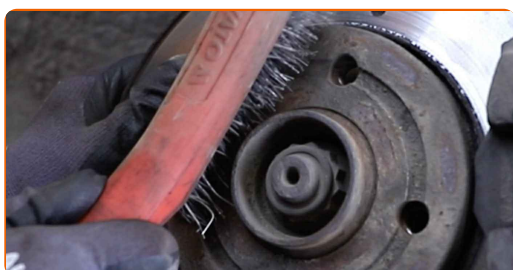
**AUTODOC recommends:**

- Replacement: suspension strut – VW Lupo II Hatchback (5Z1). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

**43** Treat the shock strut fasteners. Use copper grease.



**44** Clean the wheel rim mounting seat. Use a wire brush.



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



**46** Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: suspension strut – VW Lupo II Hatchback (5Z1). After applying the spray, wait a few minutes.

**47** Install the wheel.



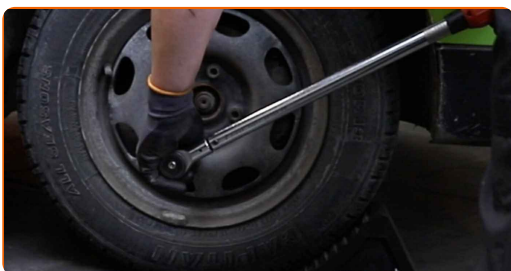
**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. VW Lupo II Hatchback (5Z1)

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



**49** 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 110 Nm torque.





50

Remove the jacks and chocks.



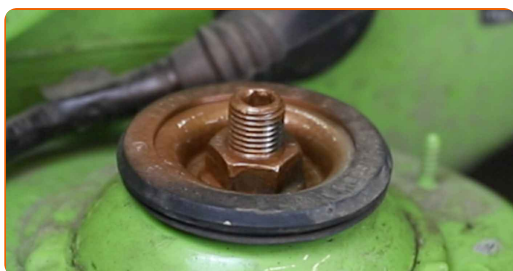
51

Tighten the upper fasteners of the suspension strut mount. Use HEX No.H6. Use a 21-mm strut nut socket. Use a torque wrench. Tighten it to 60 nm torque.



52

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



53

Remove the fender protection cover.

54

Close the hood.

**WELL DONE!** 

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