



How to change front
suspension strut on **VW**
Polo 6N1 – replacement
guide

VIDEO TUTORIAL



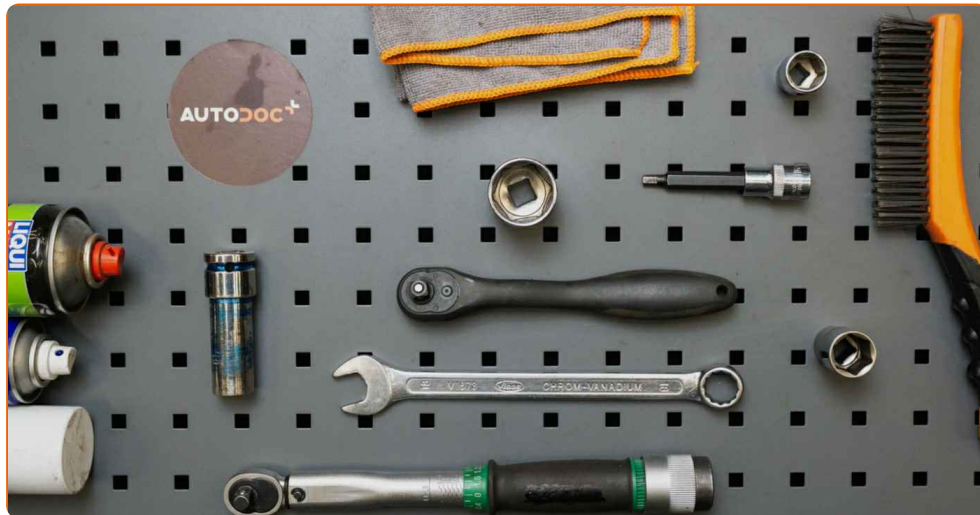
Important!

This replacement procedure can be used for:

VW Polo III Hatchback (6N1) 1.3, VW Polo III Hatchback (6N1) 1.6, VW Polo III Hatchback (6N1) 1.0, VW Polo III Hatchback (6N1) 1.9 D, VW Polo III Hatchback (6N1) 1.4, VW Polo III Hatchback (6N1) 1.4 16V, VW Polo III Classic (6V2) 1.6, VW Caddy II Van (9K9A) 60 1.4, VW Caddy II Van (9K9A) 75 1.6, VW Polo III Classic (6V2) 1.9 TDI, VW Polo III Hatchback (6N1) 1.7 SDI, VW Polo III Classic (6V2) 1.8, VW Lupo / Lupo 3L (6X1, 6E1) 1.0, VW Lupo / Lupo 3L (6X1, 6E1) 1.4 16V, VW Lupo / Lupo 3L (6X1, 6E1) 1.7 SDI, (+ 17)

The steps may slightly vary depending on the car design.

REPLACEMENT: SUSPENSION STRUT – VW POLO 6N1.
TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #18
- Drive socket # 18
- Drive socket # 21
- Drive socket # 30
- HEX bit No.H6
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

BUY TOOLS

Replacement: suspension strut – VW Polo 6N1. 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 Polo 6N1 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

Open the bonnet.



2

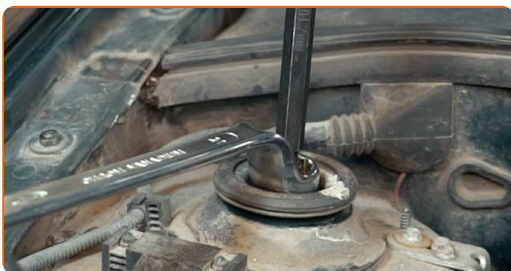
Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



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



4 Loosen the upper fastener of the shock strut mount. Use HEX No.H6. Use a drive socket #21. Use a ratchet wrench.



5 Secure the wheels with chocks.

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

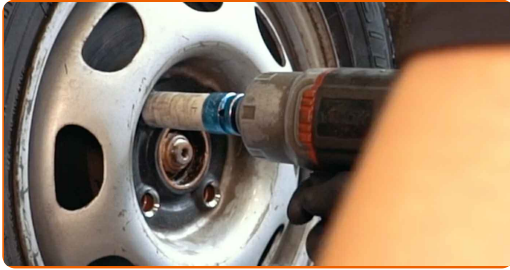


7 Raise the front of the car and secure on supports.



8

Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. VW Polo 6N1

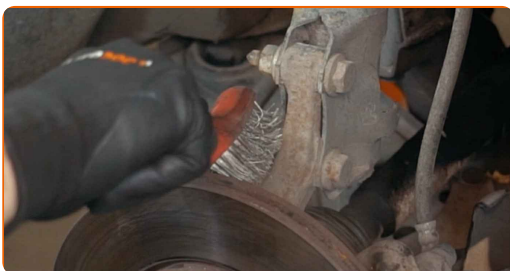
9

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** Remove the fastening bolts.



- 14** Disconnect the steering knuckle from the shock absorber strut.

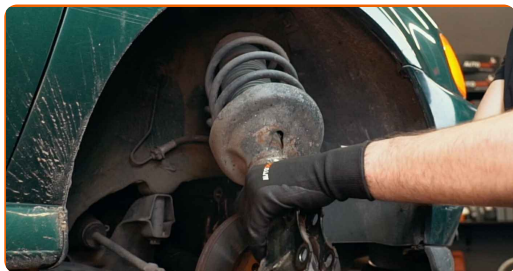


- 15** Unscrew the top fastener of the suspension strut.



16

Remove the suspension strut.



17

Set the shock absorber strut on the spring compressor tool.



Replacement: suspension strut – VW Polo 6N1. AUTODOC experts 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.

18

Compress the spring.



19

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



20

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



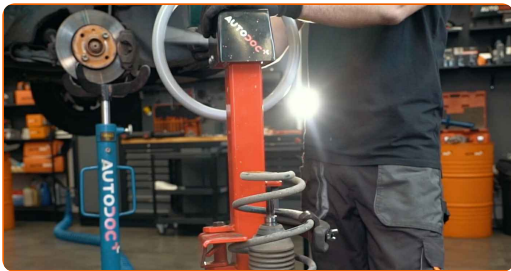
21

Remove the top strut mount.



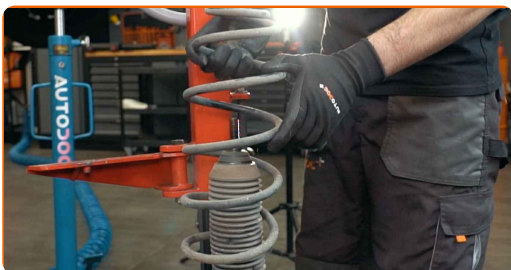
22

Release the coil spring.



23

Remove the spring.



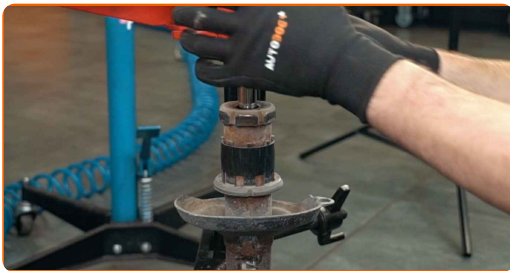
24 Remove the shock absorber dust cap and the bump stop.



AUTODOC recommends:

- Replacement: suspension strut – VW Polo 6N1. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

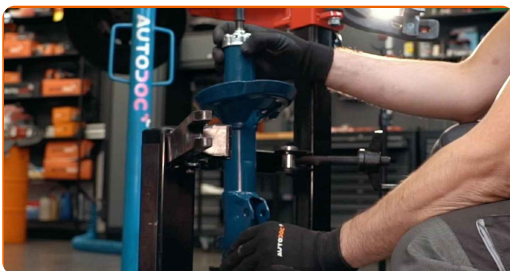
25 Remove the old shock absorber from the hydraulic coil spring compressor.



Replacement: suspension strut – VW Polo 6N1. Tip from AUTODOC experts:

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

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



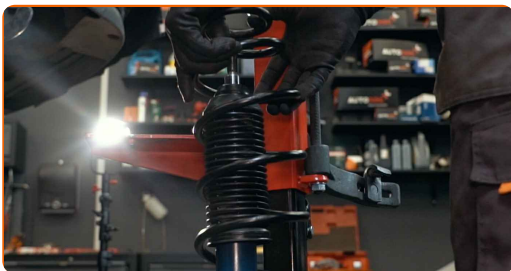
27

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



28

Install the spring on the shock absorber.



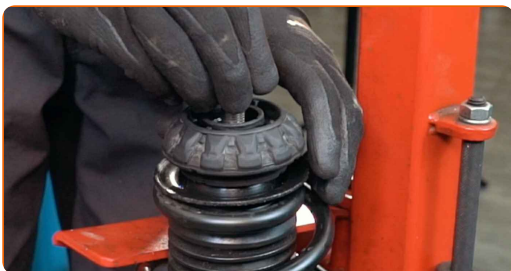
29

Compress the spring.



30

Install the upper strut mount and the strut mount bearing.



31

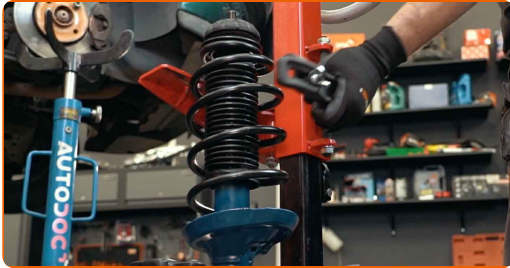
Tighten the shock strut piston rod nut. Use HEX No.H6. Use a drive socket #21. Use a torque wrench. Tighten it to 60 Nm torque.



Replacement: suspension strut – VW Polo 6N1. Professionals recommend:

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

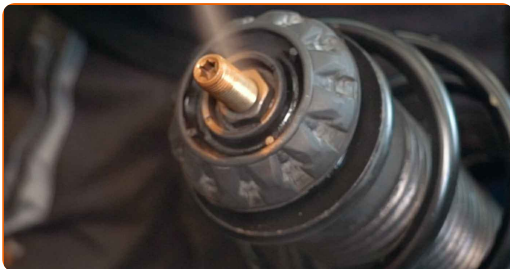
32 Decompress the spring.



33 Remove the assembled shock strut.



34 Treat the shock strut rod. Use copper grease.

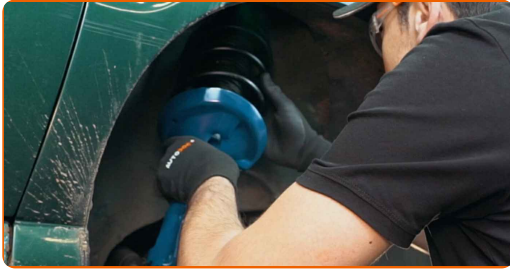


35 Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



36

Install the shock strut into the wheel arch.



37

Fix the shock absorber strut on the steering knuckle.

38

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

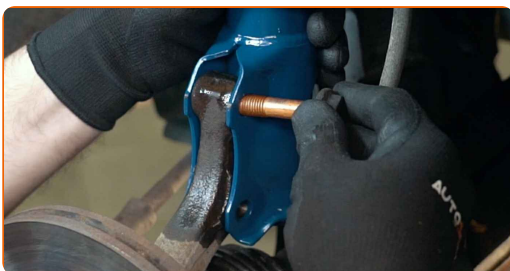


AUTODOC recommends:

- VW Polo 6N1 – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

39

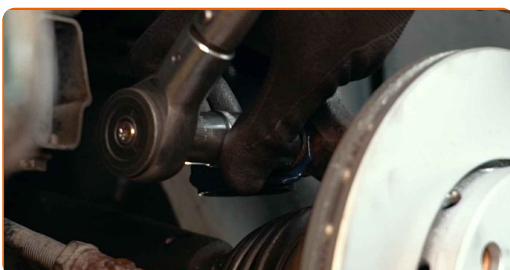
Install the fastening bolts.



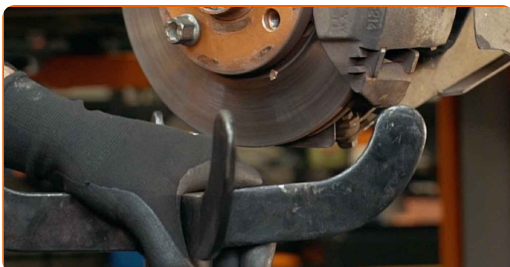
- 40 Screw in the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



- 41 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #18. Use a torque wrench. Tighten it to 95 Nm torque.



- 42 Remove the support from under the steering knuckle.



AUTODOC recommends:

- Replacement: suspension strut – VW Polo 6N1. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

43

Treat the shock strut fasteners. Treat the steering knuckle fasteners. Use copper grease.

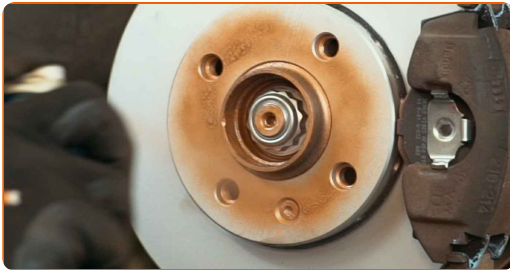


44

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

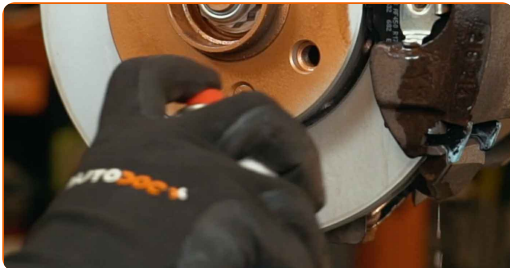
45

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 Polo 6N1. After applying the spray, wait a few minutes.

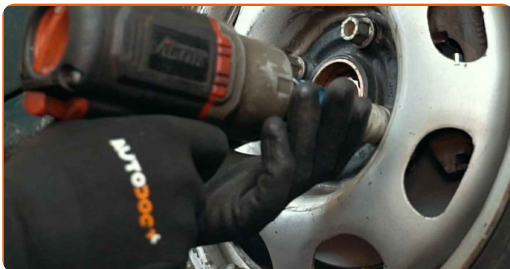
47 Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. VW Polo 6N1

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



49 Lower the car.



50 Tighten the wheel bolts using a criss-cross pattern. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



51 Remove the jacks and chocks.



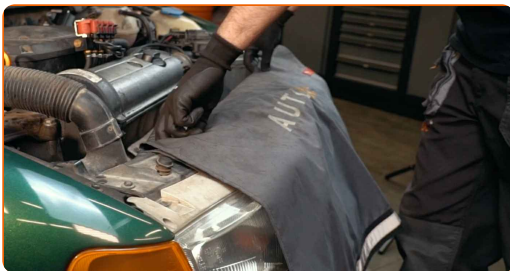
52 Tighten the top fasteners of the suspension strut. Use HEX No.H6. Use a drive socket #21. Use a torque wrench. Tighten it to 60 Nm torque.



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

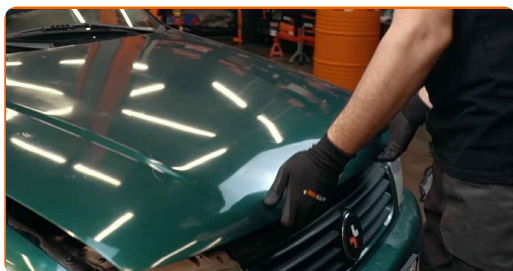


54 Remove the fender protection cover.



55

Close the hood.



WELL DONE! 

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