



How to change front coil
springs on **VW Polo**
Saloon (9A4, 9A2, 9N2,
9A6) – 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 Polo Saloon (9A4, 9A2, 9N2, 9A6) 1.4

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: SEAT Ibiza III Hatchback (6L) 1.4 16V

REPLACEMENT: COIL SPRINGS – VW POLO SALOON (9A4, 9A2, 9N2, 9A6). TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- HEX bit No.H6.
- HEX bit No.H7.
- XZN socket bit # 14
- Drive socket # 13
- Drive socket # 17
- Drive socket # 18
- Drive socket # 21
- Drive socket # 36
- Wheel impact socket #17
- Shock absorber socket
- Ratchet wrench
- Pin punch
- Tap wrench
- Hammer
- Water pump pliers
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

Buy tools

Replacement: coil springs – VW Polo Saloon (9A4, 9A2, 9N2, 9A6). Tip from AUTODOC:

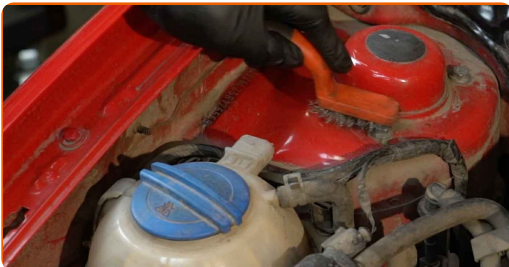
- Both coil springs of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the front suspension.
- Warning! Shut down the engine before starting any work – VW Polo Saloon (9A4, 9A2, 9N2, 9A6)

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 Loosen the upper fastener of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.



5 Remove the protective cap from the shock absorber strut mount.



6 Secure the wheels with chocks.

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



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

9 Unscrew the wheel bolts.



Replacement: coil springs – VW Polo Saloon (9A4, 9A2, 9N2, 9A6). Tip:

- To avoid injury, hold up the wheel when unscrewing the bolts.

10 Remove the wheel.



11 Loosen the fastener of the driveshaft. Use a drive socket #36. Use a tap wrench.



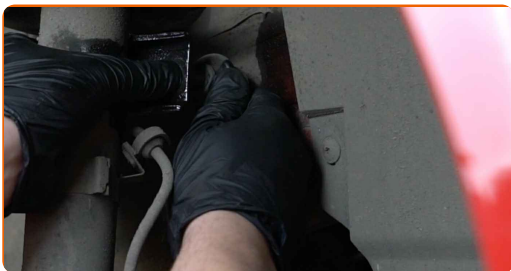
12 Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



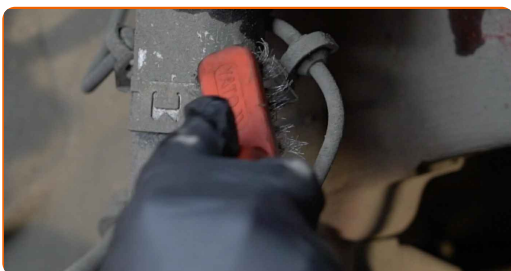
13 Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a ratchet wrench.



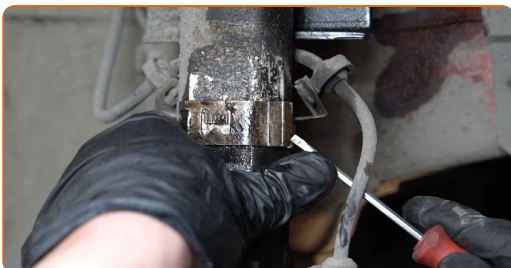
14 Remove the stabilizer rod.



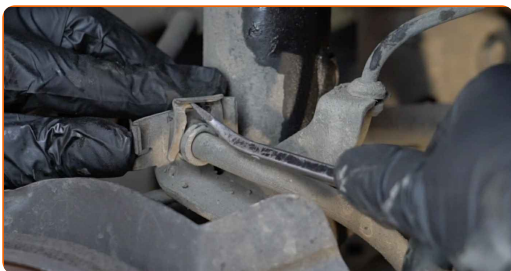
15 Clean the ABS wiring harness bracket. Use a wire brush. Use WD-40 spray.



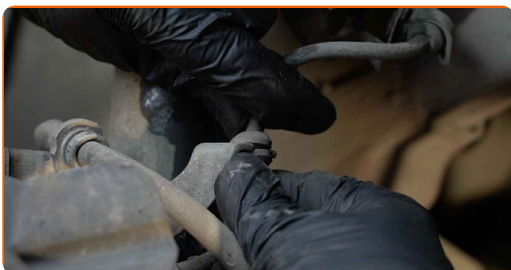
16 Remove the brake hose retaining clip.



17 Disconnect the brake hose. Use a crowbar.



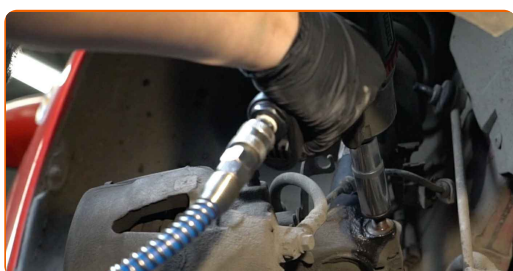
18 Disconnect the ABS sensor wiring.



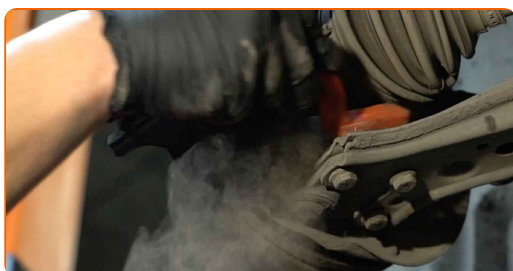
19 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



20 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use XZN #14. Use a drive socket #18. Use a ratchet wrench. Use a tap wrench.



21 Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



22 Unscrew the fastener connecting the ball joint to the suspension control arm. Use a drive socket #13. Use a tap wrench.



23 Disconnect the spherical joint from the arm.

24

Unscrew the fastener connecting the drive shaft to the wheel hub. Use a drive socket #36.



25

Detach the driveshaft from the steering knuckle. Use a pin punch. Use a hammer.



26

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

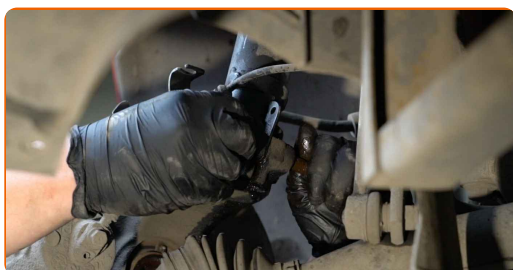


Replacement: coil springs – VW Polo Saloon (9A4, 9A2, 9N2, 9A6). AUTODOC experts recommend:

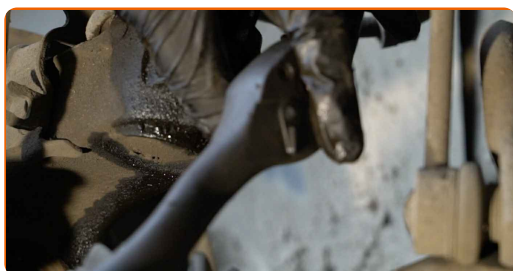
- Make sure that the steering knuckle is supported.

27

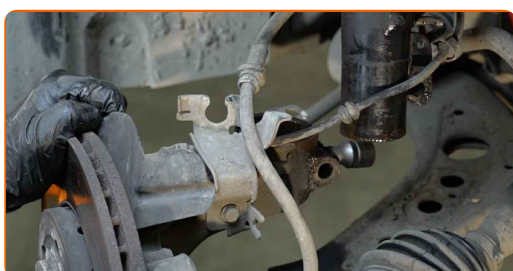
Remove the fastening bolt.



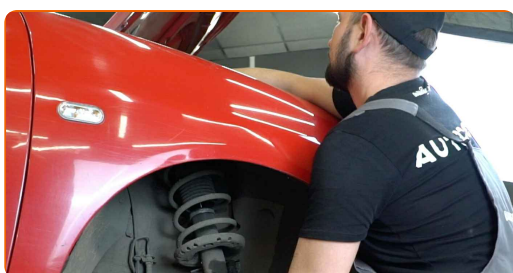
- 28 Release the lower fastener connecting the shock strut to the steering knuckle. Use a special drive socket to remove the shock absorber. Use a ratchet wrench.



- 29 Disconnect the steering knuckle from the shock absorber strut.



- 30 Unscrew the top fastening of the shock strut mount.



AUTODOC recommends:

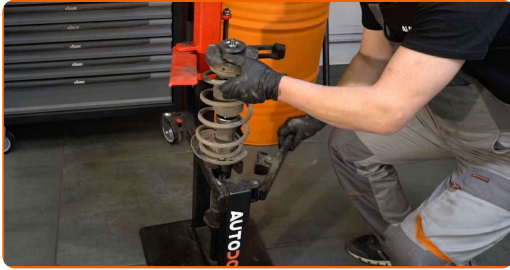
- Important! Hold the suspension strut while unscrewing the fastening bolts. VW Polo Saloon (9A4, 9A2, 9N2, 9A6)

- 31 Remove the suspension strut.



32

Set the shock absorber strut on the spring compressor tool.



Replacement: coil springs – VW Polo Saloon (9A4, 9A2, 9N2, 9A6). 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.

33

Compress the spring.



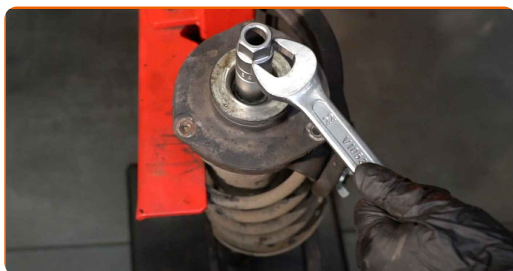
34

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



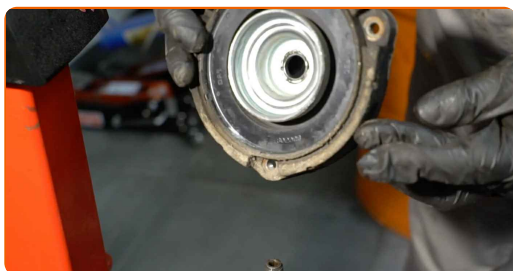
35

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



36

Remove the shock absorber mount, boot and bump stop.

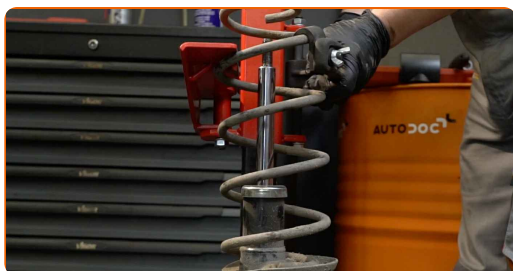


AUTODOC recommends:

- Replacement: coil springs – VW Polo Saloon (9A4, 9A2, 9N2, 9A6). Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

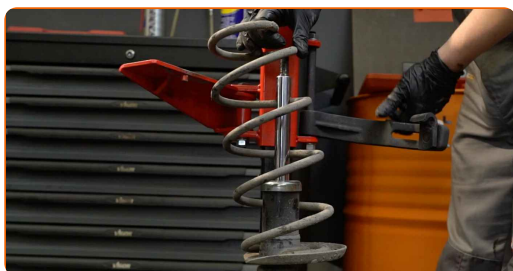
37

Release the coil spring.



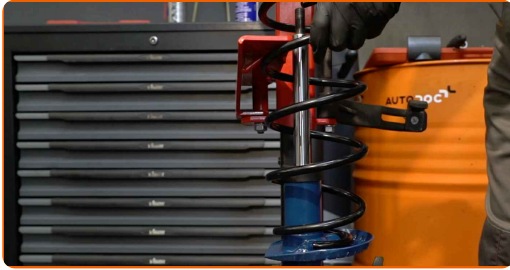
38

Remove the spring.



39

Install the spring on the shock absorber.



40

Compress the spring.



41

Install the mount, the boot and the bump stop on the shock absorber.



42

Tighten the shock strut piston rod nut. Use HEX No.H7. Use a drive socket #21. Use a torque wrench. Tighten it to 60 Nm torque.



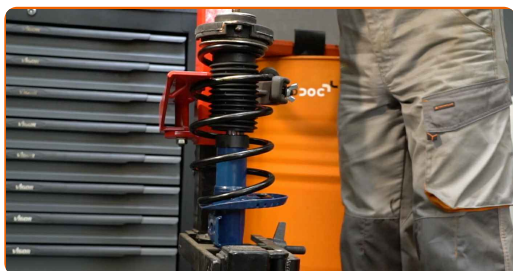
Replacement: coil springs – VW Polo Saloon (9A4, 9A2, 9N2, 9A6).
Professionals recommend:

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

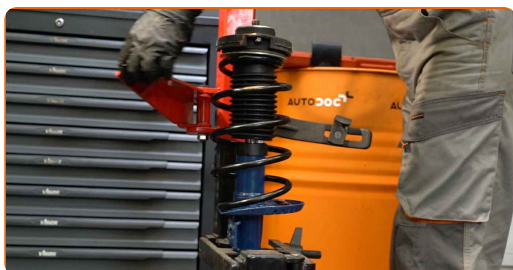
43 Treat the shock strut rod. Use copper grease.



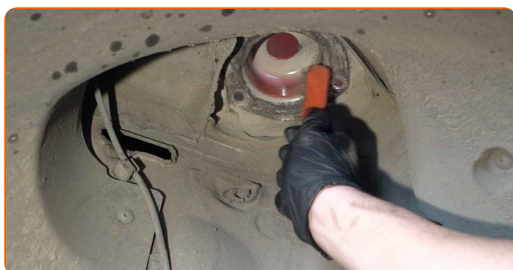
44 Decompress the spring.



45 Remove the assembled shock strut.



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

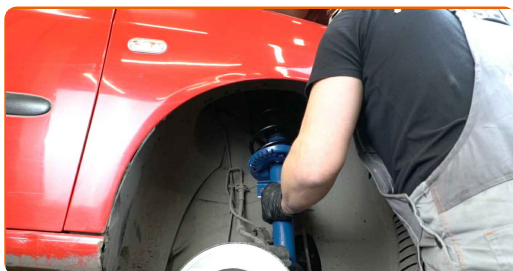


47 Install the shock strut into the wheel arch.



48

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

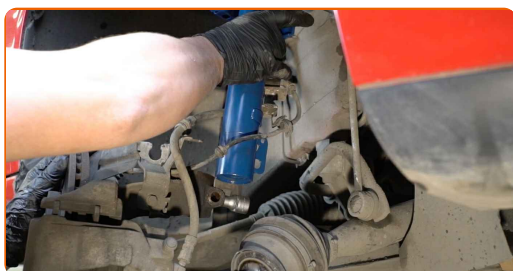


AUTODOC recommends:

- VW Polo Saloon (9A4, 9A2, 9N2, 9A6) – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

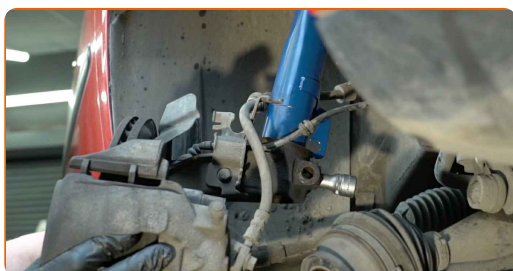
49

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



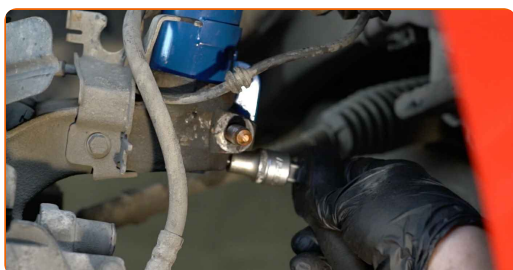
50

Fix the shock absorber strut on the steering knuckle.



51

Install the fastening bolt.



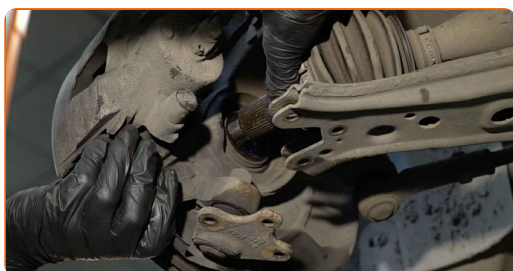
52 Remove the support from under the steering knuckle.



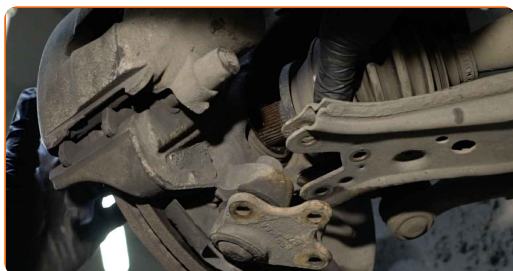
Replacement: coil springs – VW Polo Saloon (9A4, 9A2, 9N2, 9A6). Tip from AUTODOC:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

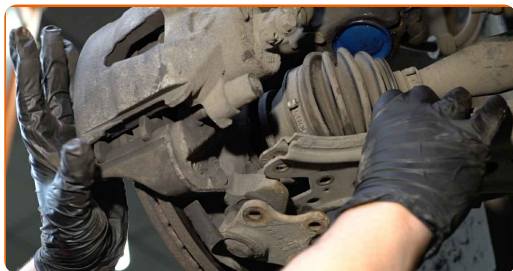
53 Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.



54 Mount the drive shaft into the wheel hub.



55 Attach the ball joint to the control arm.



56 Screw the fasteners of the ball joint. Use a drive socket #13. Use a ratchet wrench.



57 Tighten the ball joint fastener. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.+90°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

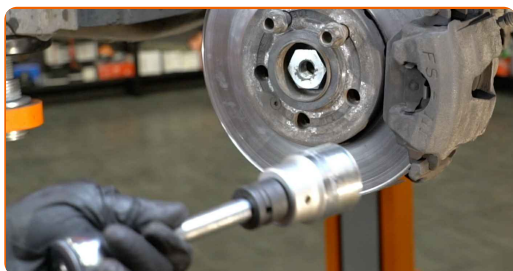
58

Screw the nut of the drive shaft. Use a drive socket #36. Use a ratchet wrench.



59

Tighten the drive shaft nut. Use a drive socket #36. Use a torque wrench. Tighten it to 50 Nm torque.+45°

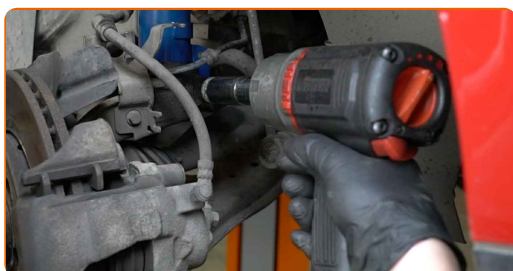


AUTODOC recommends:

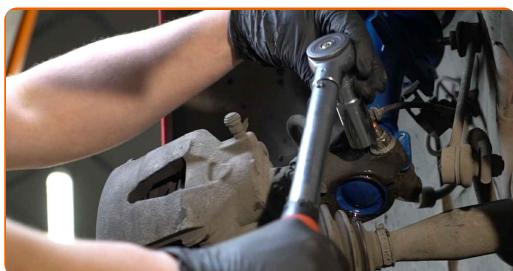
- Important! Be sure to use new fasteners.

60

Screw in the fastener that connects the shock strut to the steering knuckle. Use a drive socket #18. Use XZN #14. Use a ratchet wrench.



- 61** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #18. Use a torque wrench. Tighten it to 60 Nm torque. +90°

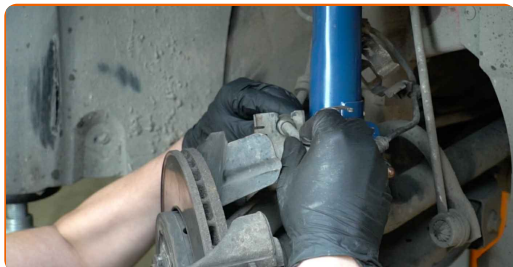


AUTODOC recommends:

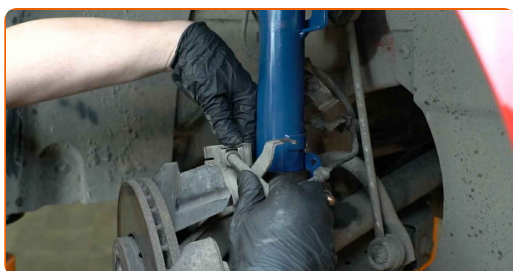
- Important! Be sure to use new fasteners.

- 62** Clean the brake hose mounting seat. Use a wire brush. Use WD-40 spray.

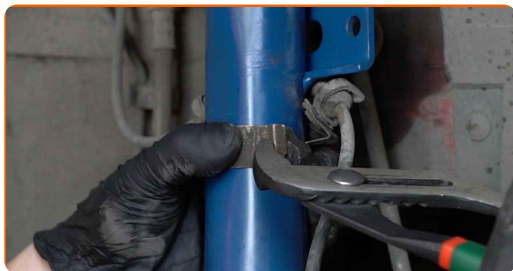
- 63** Attach the brake hose.



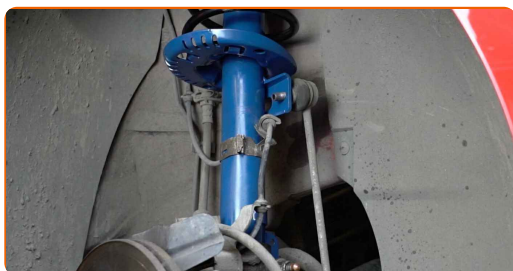
- 64** Install the brake hose retaining clip.



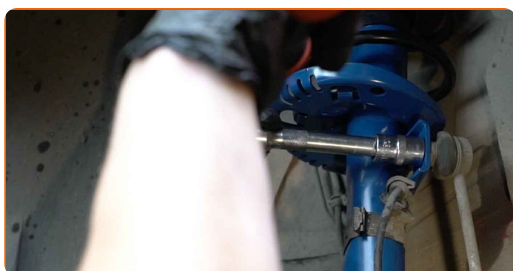
65 Connect the ABS sensor wiring. Use water pump pliers.



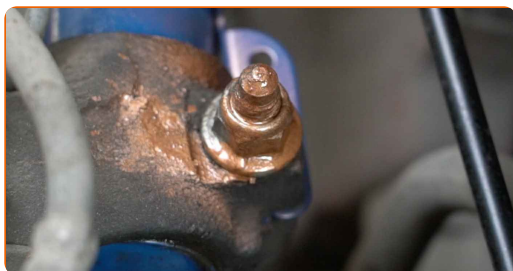
66 Install the transverse stabilizer link.



67 Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a torque wrench. Tighten it to 40 Nm torque.



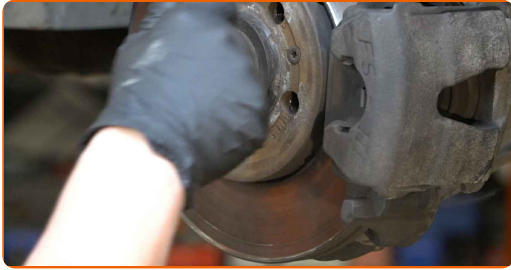
68 Treat the shock strut fasteners. Treat all joints of the arm. Use copper grease.



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

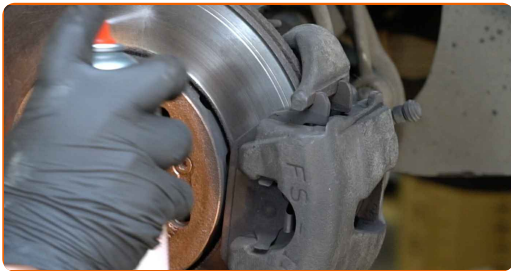
70

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



71

Clean the brake disk surface. Use a brake cleaner.

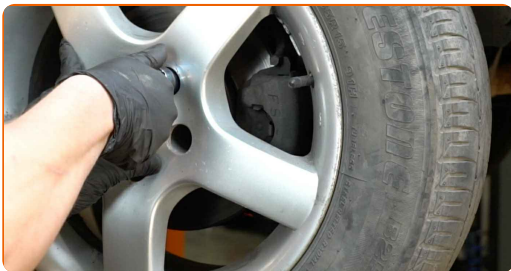


AUTODOC recommends:

- Replacement: coil springs – VW Polo Saloon (9A4, 9A2, 9N2, 9A6). After applying the spray, wait a few minutes.

72

Install the wheel.



Replacement: coil springs – VW Polo Saloon (9A4, 9A2, 9N2, 9A6). AUTODOC recommends:

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

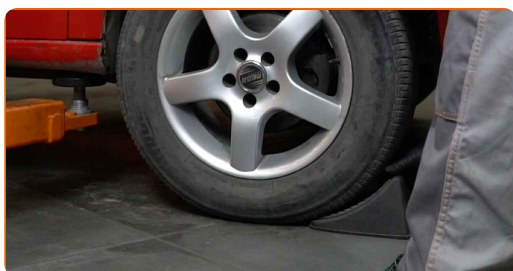
73 Screw in the wheel bolts. Use wheel impact socket #17.



74 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 120 Nm torque.



75 Remove the jacks and chocks.



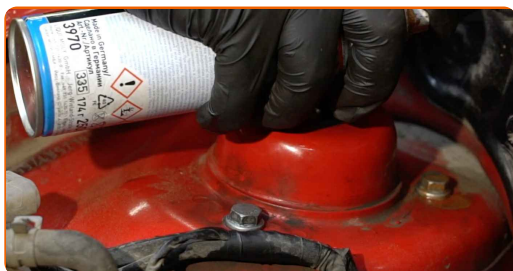
76 Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 15 Nm torque. +90°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

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



78 Install the protective cap onto the shock absorber strut mount.



79 Remove the fender protection cover.

80 Close the hood.

WELL DONE! 

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