



How to change rear coil
springs on **VW Golf 3** –
replacement guide

VIDEO TUTORIAL

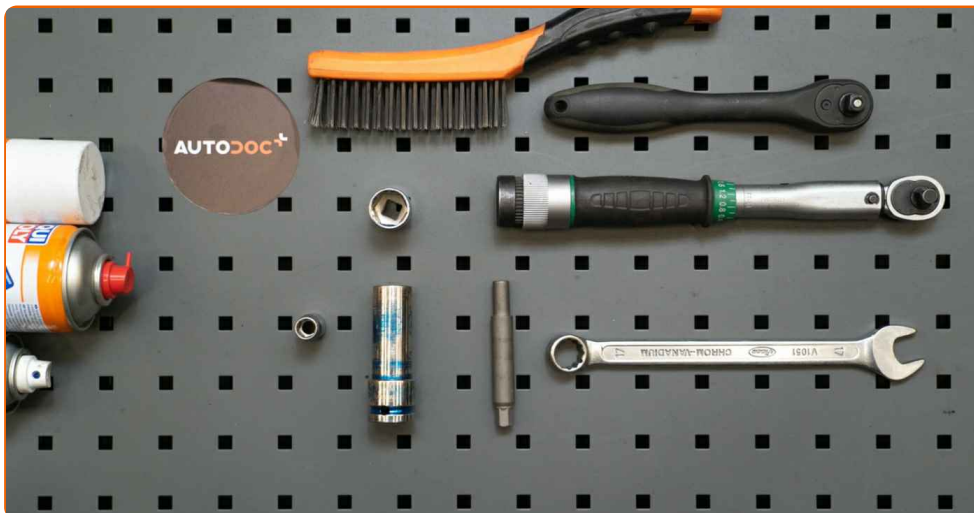
** Important!**

This replacement procedure can be used for:

VW Golf III Hatchback (1H1) 1.9 TD,GTD, VW Golf III Hatchback (1H1) 1.9 TDI, VW Golf III Hatchback (1H1) 1.6, VW Golf III Hatchback (1H1) 1.8, VW Golf III Hatchback (1H1) 1.4, VW Vento (1H2) 1.9 D, VW Vento (1H2) 1.9 TD, VW Vento (1H2) 1.9 TDI, VW Vento (1H2) 1.4, VW Vento (1H2) 1.6, VW Vento (1H2) 1.8, VW Golf III Hatchback (1H1) 1.9 SDI, VW Vento (1H2) 1.9 SDI

The steps may slightly vary depending on the car design.

REPLACEMENT: COIL SPRINGS – VW GOLF 3. TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Torque wrench
- Combination spanner #17
- Drive socket # 10
- Drive socket # 17
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Shock absorber socket #DD5,2
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

Replacement: coil springs – VW Golf 3. Tip from AUTODOC:

- Both coil springs of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the rear suspension.
- Please note: all work on the car – VW Golf 3 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

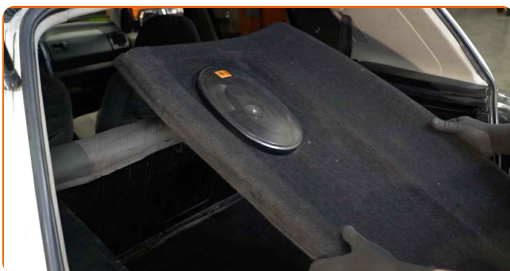
1

Open the boot lid.



2

Move the folding shelf and detach it from the retainers. By doing this, you will get access to the side trim plastic panels.



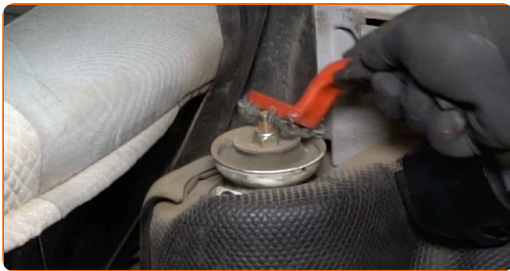
3 Unscrew the fasteners of the side plastic trim panel. Use a drive socket #10. Use a ratchet wrench.



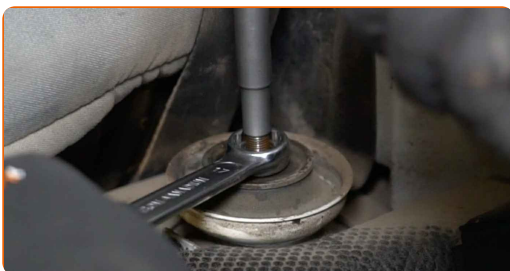
4 Remove the side plastic cover.



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



6 Loosen the upper fastener of the shock strut mount. Use a combination spanner #17. Use a shock absorber socket #DD5,2. Use a ratchet wrench.



7 Secure the wheels with chocks.



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



9 Raise the rear of the car and secure on supports.



10 Unscrew the wheel bolts.



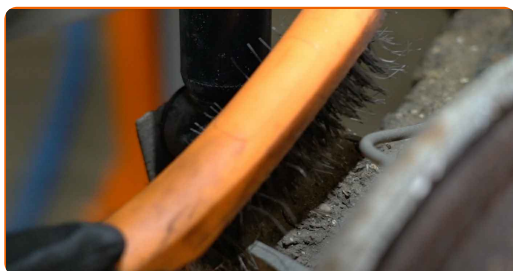
Replacement: coil springs – VW Golf 3. Tip from AUTODOC:

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

11 Remove the wheel.



12 Clean the shock strut fasteners. Use a wire brush. Use WD-40 spray.



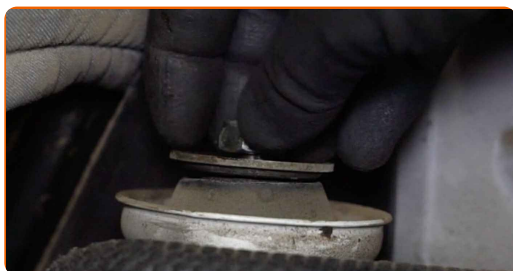
13 Support the rear suspension beam. Use a hydraulic transmission jack.



14 Unscrew the lower fastener of the shock absorber strut. Use a combination spanner #17. Use a drive socket #17. Use a tap wrench.



15 Unscrew the top fastening of the shock strut mount.

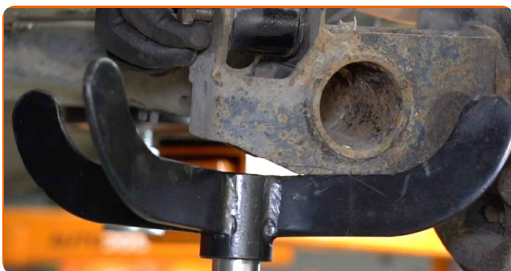


AUTODOC recommends:

- VW Golf 3 – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

16

Remove the mounting from under the rear axle beam.

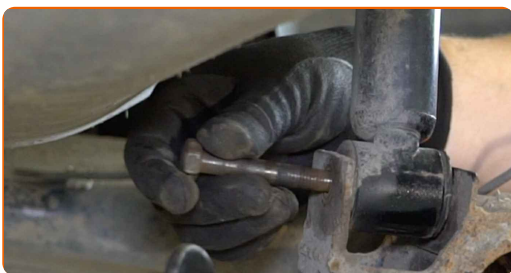


AUTODOC recommends:

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

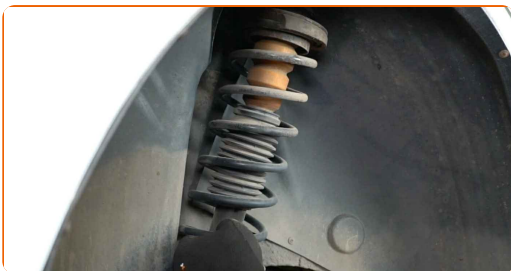
17

Remove the fastening bolt.



18

Remove the suspension strut.



19

Set the shock absorber strut on the spring compressor tool.



Replacement: coil springs – VW Golf 3. 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.

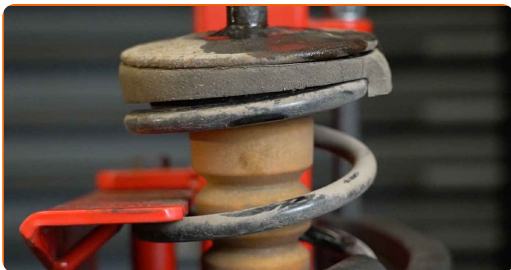
20

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



21

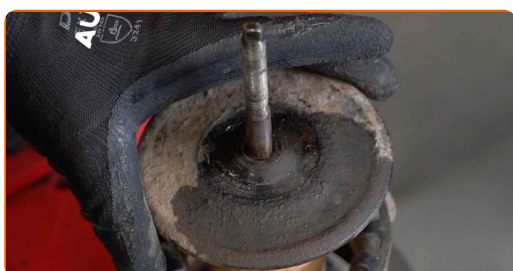
Compress the spring.



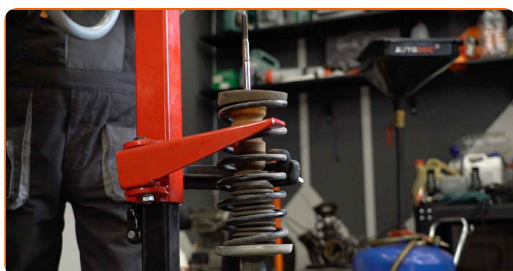
- 22** Remove the strut piston rod nut. Use a combination spanner #17. Use a shock absorber socket #DD5,2. Use a ratchet wrench.



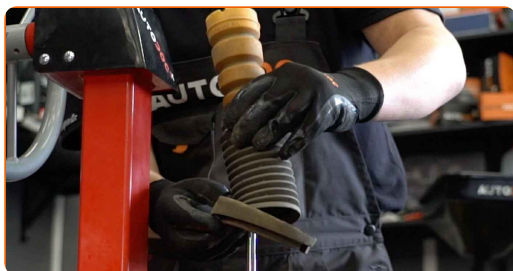
- 23** Remove the top strut mount.



- 24** Release the coil spring.



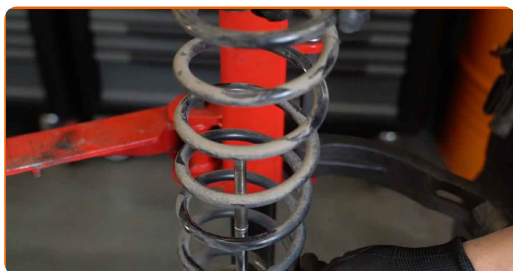
- 25** Remove the shock absorber dust cap and the bump stop.



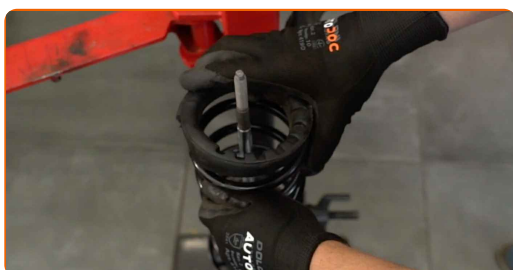
AUTODOC recommends:

- Replacement: coil springs – VW Golf 3. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

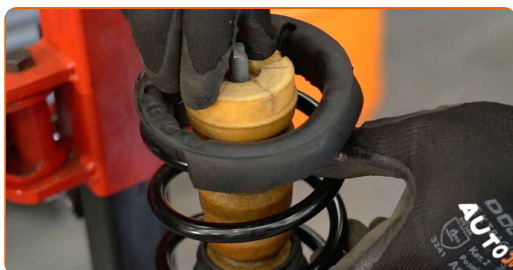
26 Remove the spring.



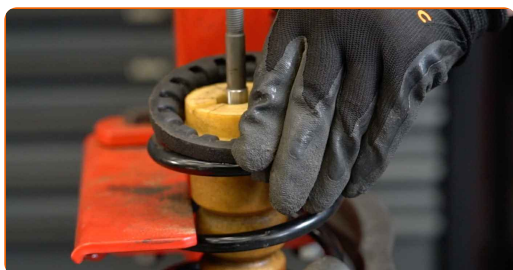
27 Install the spring on the shock absorber.



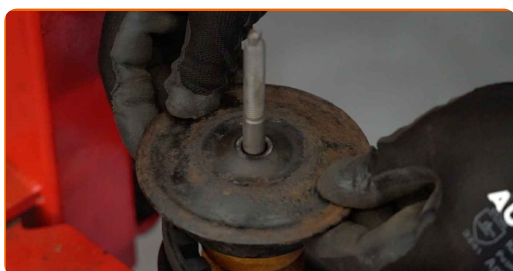
28 Install the dust boot and bump stop on the shock absorber.



29 Compress the spring.



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



- 31** Tighten the shock strut piston rod nut. Use a combination spanner #17. Use a shock absorber socket #DD5,2. Use a torque wrench. Tighten it to 35 Nm torque.



Replacement: coil springs – VW Golf 3. AUTODOC recommends:

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

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



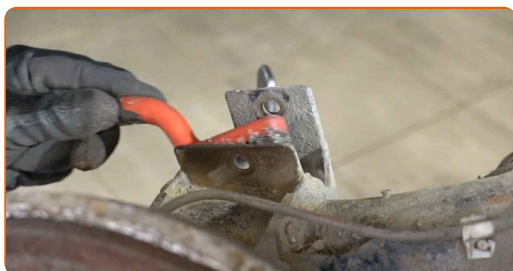
- 33** Decompress the spring.



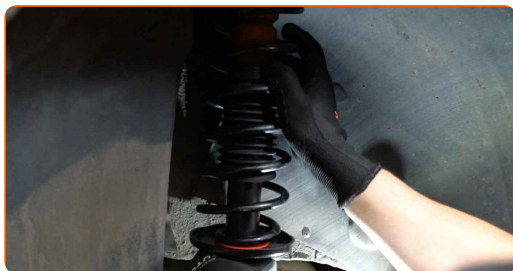
34 Remove the assembled shock strut.



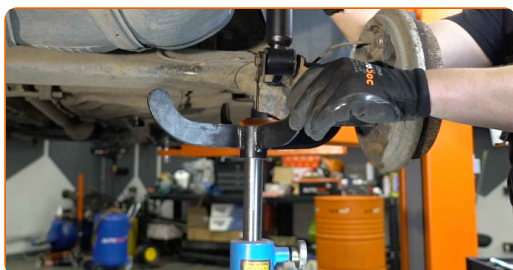
35 Treat the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



36 Install the shock strut into the wheel arch.



37 Support the rear suspension beam. Use a hydraulic transmission jack.



38 Install the fastening bolt.

39

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

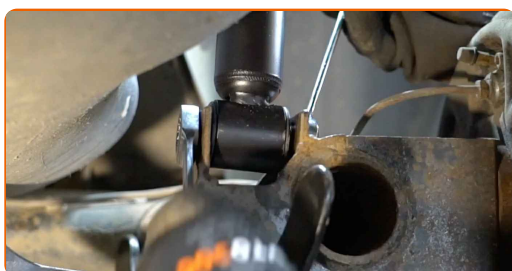


AUTODOC recommends:

- Important! Hold the suspension strut while screwing in the fastening bolts. VW Golf 3

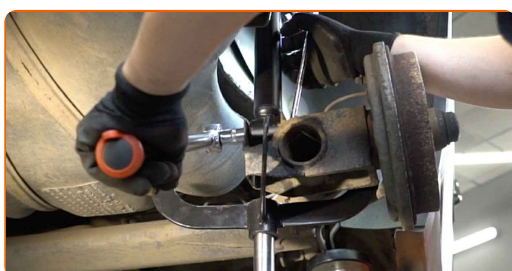
40

Screw in the lower fastener of the shock strut. Use a combination spanner #17. Use a drive socket #17. Use a tap wrench.



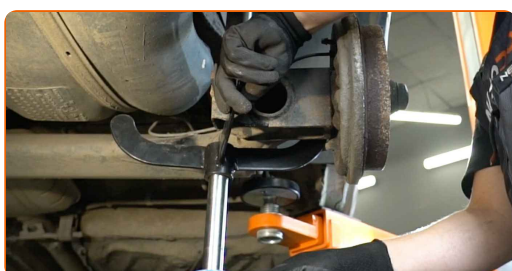
41

Tighten the lower fastening of the shock absorber. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 70 nm torque.



42

Remove the mounting from under the rear axle beam.



AUTODOC recommends:

- VW Golf 3 – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

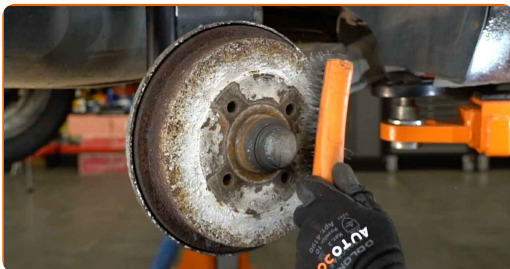
43

Treat the shock strut fasteners. Use copper grease.



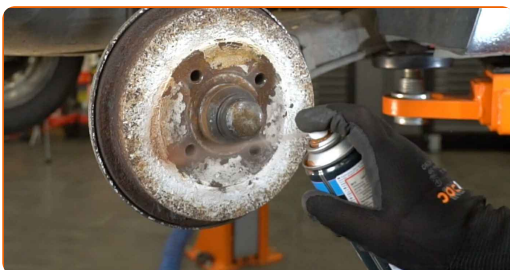
44

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



45

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



46

Install the wheel.



AUTODOC recommends:

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

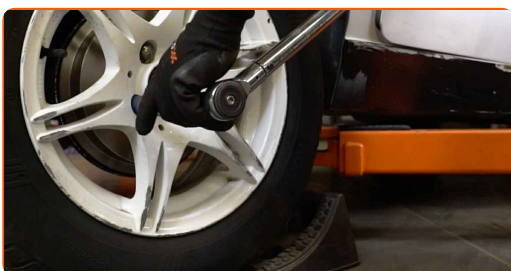
47

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



48

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.



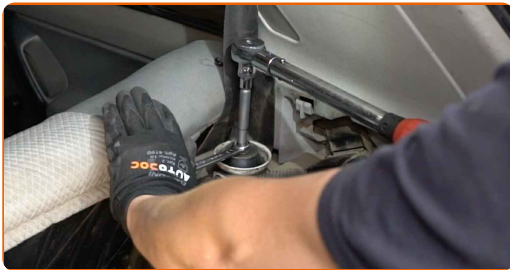
49

Remove the jacks and chocks.



50

Tighten the upper fastener of the shock absorber strut mount. Use a combination spanner #17. Use a shock absorber socket #DD5,2. Use a torque wrench. Tighten it to 25 Nm torque.



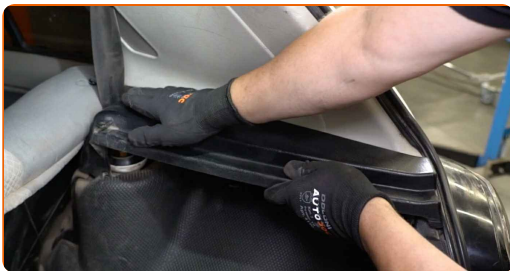
51

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



52

Install the side plastic panel.



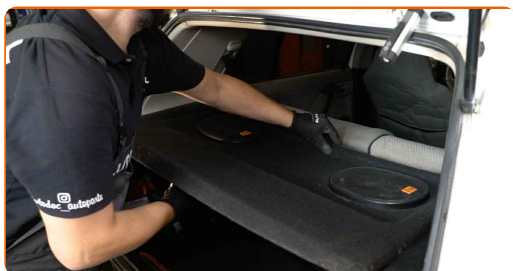
53

Screw the fasteners of the side plastic trim panel. Use a drive socket #10. Use a ratchet wrench.



54

Install the folding shelf to its mounting seat.



55

Close the lid of the luggage compartment.



WELL DONE! 

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