



How to change front coil
springs on **VAUXHALL**
Astra Mk V (H) (A04)
Hatchback –
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:
VAUXHALL Astra Mk V (H) (A04) Hatchback 1.4, VAUXHALL Astra Mk V (H) (A04)
Hatchback 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: OPEL Astra H Saloon (A04) 1.6 (L69)

REPLACEMENT: COIL SPRINGS – VAUXHALL ASTRA MK V (H) (A04) HATCHBACK. TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #17
- Combination spanner #18
- Drive socket # 18
- Drive socket # 21
- HEX bit No.H6
- HEX bit No.H7
- Wheel impact socket #17
- Ratchet wrench
- Hammer
- Pliers
- Water pump pliers
- Flat Screwdriver
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

Buy tools

Replacement: coil springs – VAUXHALL Astra Mk V (H) (A04) Hatchback.
AUTODOC experts recommend:

- 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 rear suspension.
- Please note: all work on the car – VAUXHALL Astra Mk V (H) (A04) Hatchback – 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 Secure the wheels with chocks.

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



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

6 Unscrew the wheel bolts.



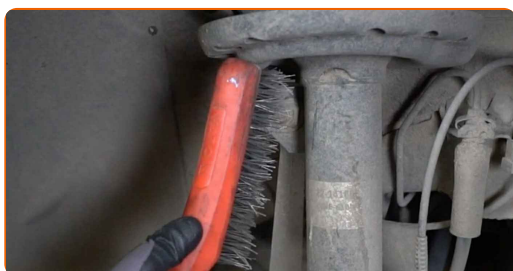
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
VAUXHALL Astra Mk V (H) (A04) Hatchback

7 Remove the wheel.



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



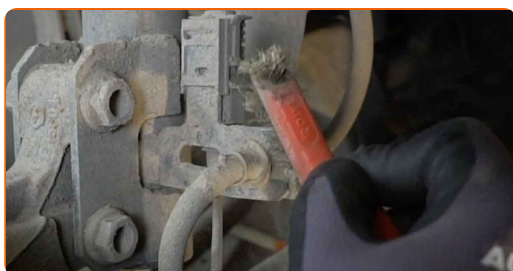
- 9** Unscrew the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #17. Use a drive socket #18. Use a ratchet wrench.



- 10** Remove the stabilizer rod.



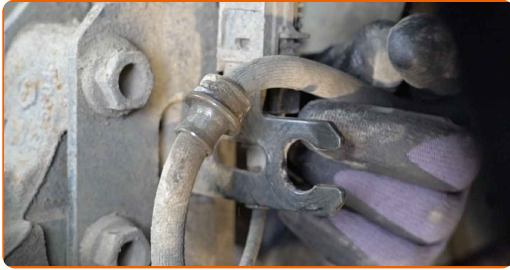
- 11** Clean the fasteners connecting the brake hose to the shock strut. Use a wire brush. Use WD-40 spray.



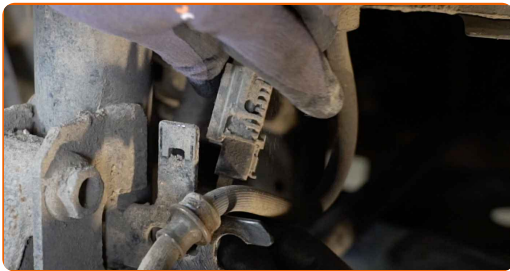
- 12** Remove the fastener attaching the brake hose to the shock strut. Use pliers.



13 Detach the brake hose from the shock strut.



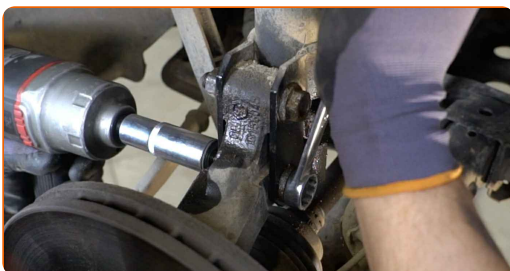
14 Disconnect the ABS sensor wiring.



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



16 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.



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



18 Remove the shock strut mount cap.



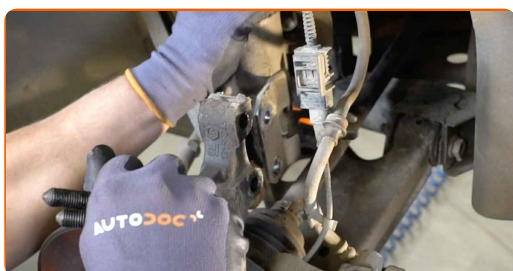
19 Remove the retainer of the shock strut upper mount. Use a flat screwdriver.



20 Remove the fastening bolts.

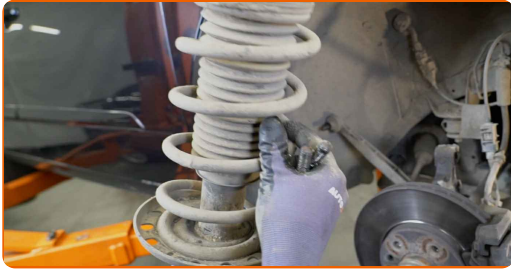


21 Disconnect the steering knuckle from the shock absorber strut.



22

Remove the suspension strut.



23

Set the shock absorber strut on the spring compressor tool.



**Replacement: coil springs – VAUXHALL Astra Mk V (H) (A04) Hatchback.
Professionals recommend:**

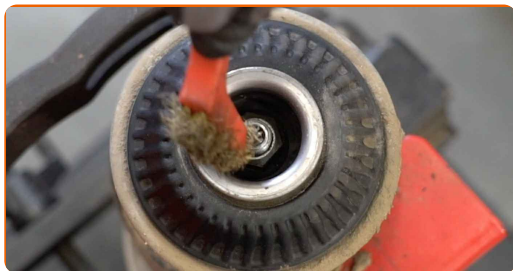
- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

24

Compress the spring.



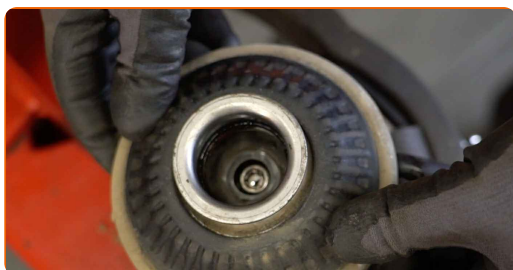
25 Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



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



27 Remove the top strut mount.



Replacement: suspension strut – VAUXHALL Astra Mk V (H) (A04) Hatchback.
Tip from AUTODOC experts:

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

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



29 Release the coil spring.



30 Remove the spring.



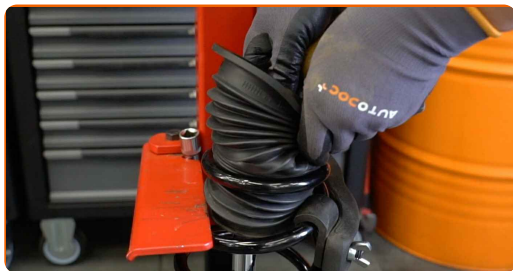
31 Install the spring on the shock absorber.



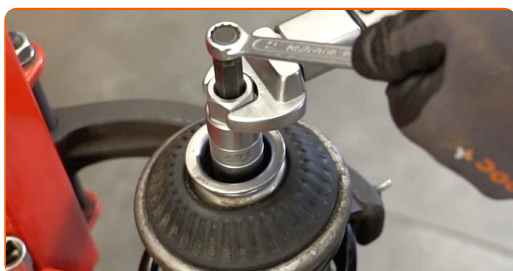
32 Compress the spring.



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



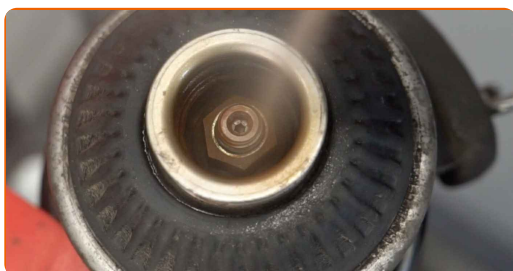
34 Tighten the shock strut piston rod nut. Use HEX No.H6. Use a drive socket #21. Use a torque wrench. Tighten it to 65 Nm torque.



Replacement: coil springs – VAUXHALL Astra Mk V (H) (A04) Hatchback. Tip:

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

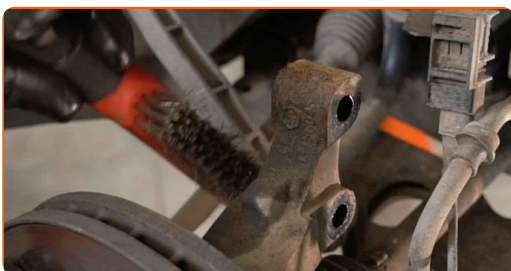
35 Treat the shock strut rod. Use copper grease.



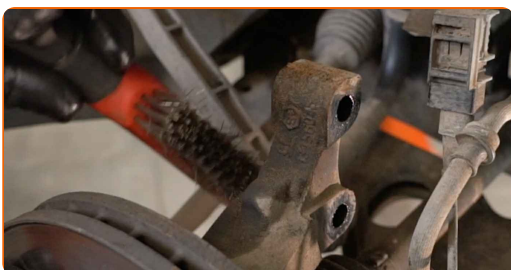
36 Decompress the spring.



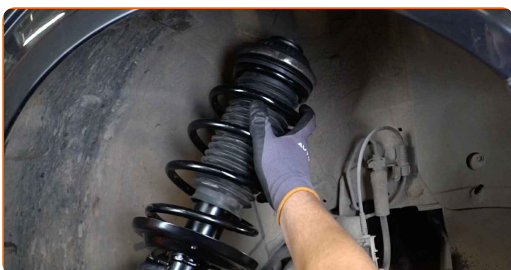
37 Remove the assembled shock strut.



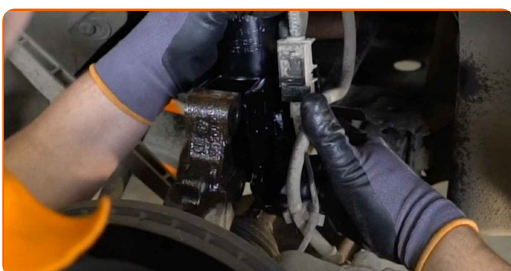
38 Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



39 Install the shock strut into the wheel arch.



40 Fix the shock absorber strut on the steering knuckle.



AUTODOC recommends:

- VAUXHALL Astra Mk V (H) (A04) Hatchback – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

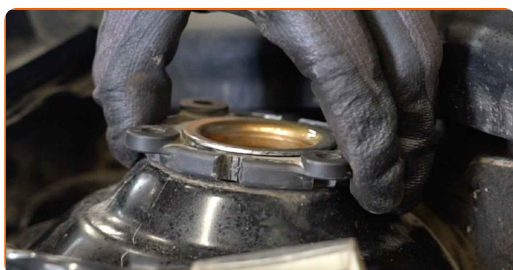
41

Install the fastening bolts.



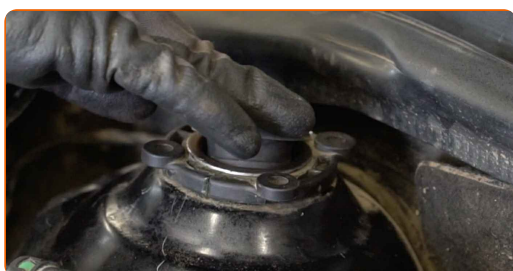
42

Install the retainer of the shock strut upper mount. Use water pump pliers.



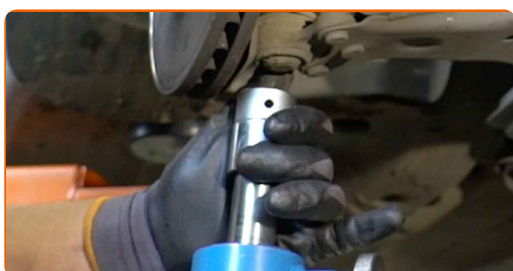
43

Install the shock strut mount cap.



44

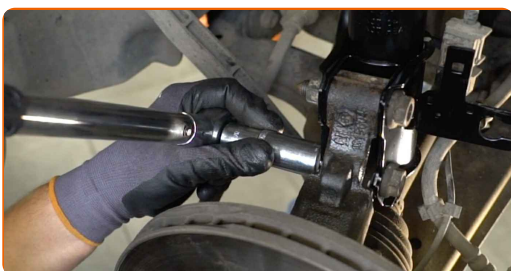
Remove the support from under the steering knuckle.



AUTODOC recommends:

- Replacement: coil springs – VAUXHALL Astra Mk V (H) (A04) Hatchback. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

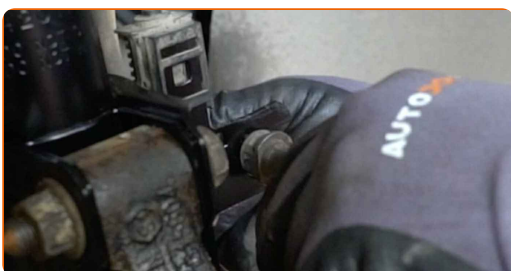
45 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 120 Nm torque.



46 Connect the ABS sensor wiring.



47 Fasten the brake hose on the strut.



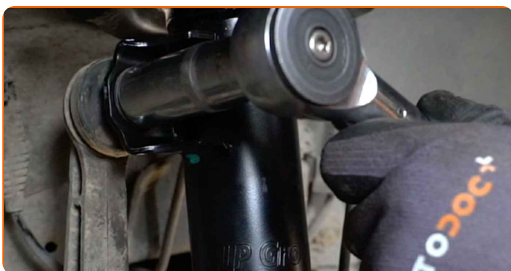
48 Install the brake hose retaining clip. Use a hammer.



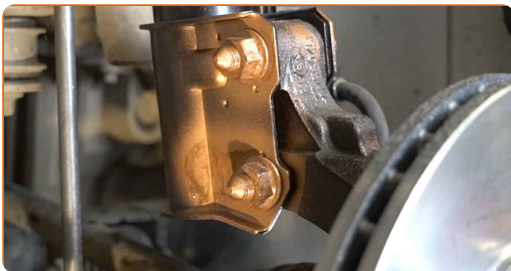
49 Install the transverse stabilizer link.



50 Tighten the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #17. Use a drive socket #18. Use a torque wrench. Tighten it to 55 Nm torque.



51 Treat the fasteners of the shock strut mount. Treat the steering knuckle fasteners. Use copper grease.



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



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



54 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: coil springs – VAUXHALL Astra Mk V (H) (A04) Hatchback. After applying the spray, wait a few minutes.

55 Install the wheel.



AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. VAUXHALL Astra Mk V (H) (A04) Hatchback

56

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



57

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.



58

Remove the jacks and chocks.



59

Remove the fender protection cover.

60

Close the hood.

WELL DONE! 

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