



How to change front coil  
springs on **VAUXHALL**  
**Vectra (B) Estate (J96)** –  
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 Vectra (B) Estate (J96) 1.8 i 16V

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 G CC (T98) 1.2 16V (F08, F48)

**REPLACEMENT: COIL SPRINGS – VAUXHALL VECTRA (B) ESTATE (J96). LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # 9
- Drive socket # 17
- Drive socket # 18
- Combination spanner #17
- Combination spanner #18
- Combination spanner #19
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat screwdriver
- Tap wrench
- Crow bar
- Hydraulic transmission jack
- Hydraulic strut spring compressor
- Fender cover
- Wheel chock

**Buy tools**

Replacement: coil springs – VAUXHALL Vectra (B) Estate (J96). 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 front suspension.
- All work should be done with the engine stopped.

## REPLACEMENT: COIL SPRINGS – VAUXHALL VECTRA (B) ESTATE (J96). TAKE THE FOLLOWING STEPS:

**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 Vectra (B) Estate (J96)

**7** Remove the wheel.



**8** Clean the fasteners connecting the stabiliser link to the shock strut, and those connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



- 9** Unscrew the nut and remove the stabilizer rod from the shock strut. Use a combination spanner #19. Use a drive socket #18. Use a ratchet wrench.



- 10** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a tap wrench.



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



- 12** Remove the fastening bolts.



**13** Disconnect the brake hose holder from the shock absorber strut. Use a crowbar.



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



**15** Unscrew the upper fastening of the shock absorber strut. Use a combination spanner #19. Use a drive socket #9. Use a ratchet wrench.



**AUTODOC recommends:**

- Important! Hold the suspension strut while unscrewing the fastening bolts.  
VAUXHALL Vectra (B) Estate (J96)

**16** Remove the suspension strut.





**17**

Set the shock absorber strut on the spring compressor tool.



**Replacement: coil springs – VAUXHALL Vectra (B) Estate (J96). 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.

**18**

Compress the spring.



**19**

Remove the strut piston rod nut. Use a combination spanner #19. Use a drive socket #9.





**20** Remove the shock absorber mount, boot and bump stop.



**AUTODOC recommends:**

- Replacement: coil springs – VAUXHALL Vectra (B) Estate (J96). Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

**21** Release the coil spring.



**22** Remove the spring.



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



**24** Compress the spring.



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



**26** Tighten the shock strut piston rod nut. Use a combination spanner #19. Use a drive socket #9. Use a torque wrench. Tighten it to 50 Nm torque.



Replacement: coil springs – VAUXHALL Vectra (B) Estate (J96). Professionals recommend:

- Check to make sure the spring is positioned correctly. Avoid its misalignment.
- Important! Be sure to use new fasteners.

**27** Decompress the spring.



**28** Remove the assembled shock strut.



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



**30** Tighten the upper fastening nut of the shock absorber strut. Do not tighten it.

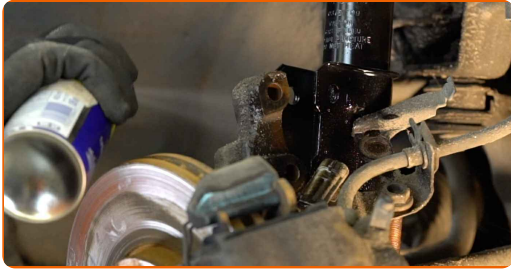


**AUTODOC recommends:**

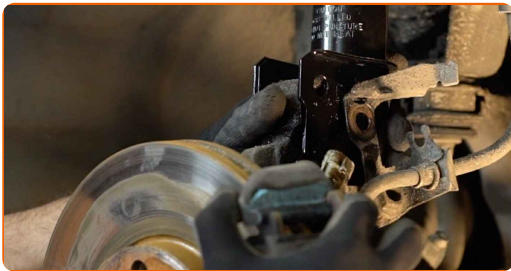
- VAUXHALL Vectra (B) Estate (J96) – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

**31**

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

**32**

Fix the shock absorber strut on the steering knuckle.

**33**

Fasten the brake hose on the strut.

**34**

Install the new steering knuckle bolts.



- 35** 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 90 Nm torque.+45°



**AUTODOC recommends:**

- Important! Be sure to use new fasteners.

- 36** Secure the stabilizer link on the suspension strut. Use a combination spanner #19. Use a drive socket #18. Use a torque wrench. Tighten it to 65 Nm torque.



- 37** Treat the shock strut fasteners. Treat all joints of the stabiliser link. Use copper grease.



**38**

Remove the support from under the steering knuckle.



**AUTODOC recommends:**

- Replacement: coil springs – VAUXHALL Vectra (B) Estate (J96). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

**39**

Clean the wheel rim mounting seat. Use a wire brush. Treat the contacting surface. Use copper grease.



**40**

Install the wheel.



**AUTODOC recommends:**

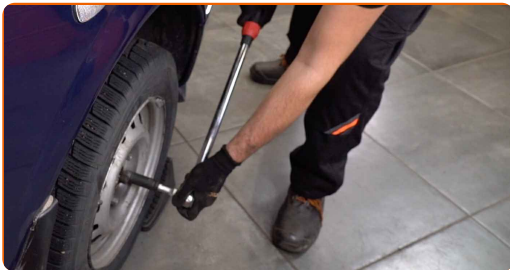
- Important! Hold the wheel while screwing in the fastening bolts. VAUXHALL Vectra (B) Estate (J96)



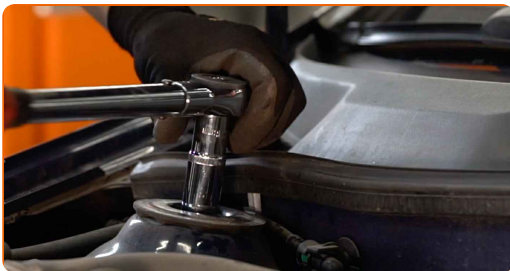
**41** Screw in the wheel bolts. Use wheel impact socket #17.



**42** 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.



**43** Tighten the shock strut top mount. Use a drive socket #19. Use a torque wrench. Tighten it to 50 Nm torque.



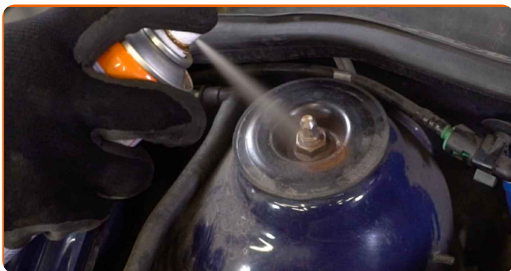
**AUTODOC recommends:**

- Important! Be sure to use new fasteners.



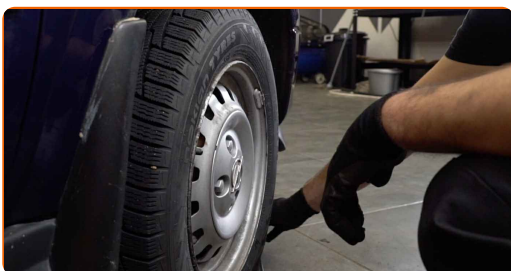
44

Treat the shock strut rod. Use copper grease.



45

Remove the jacks and chocks.



46

Remove the fender protection cover.

47

Close the hood.

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