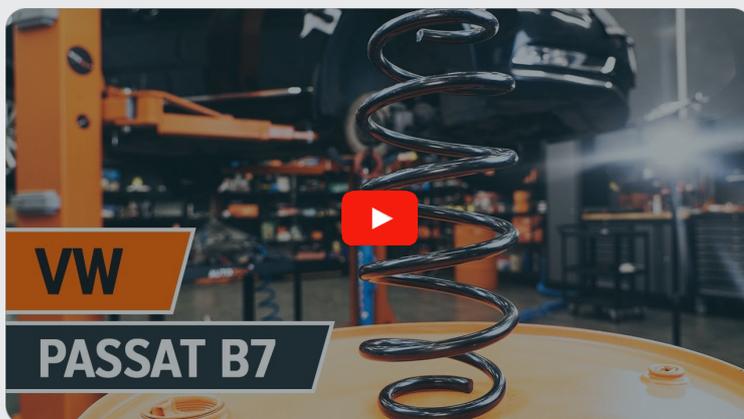




How to change front coil  
springs on **VW Passat CC**  
**(357)** – replacement  
guide

### 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 Passat CC (357) 2.0 TDI

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: VW Passat Saloon (362) 2.0 TDI

**REPLACEMENT: COIL SPRINGS – VW PASSAT CC (357).  
LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #10
- Combination spanner #18
- Drive socket # 13
- Drive socket # 16
- Drive socket # 18
- Drive socket # 21
- Drive socket # 22
- Drive socket # 27
- XZN socket bit # 6
- XZN socket bit # 14
- HEX bit No.H7
- Wheel impact socket #17
- Ratchet wrench
- Pin punch
- Flat chisel
- Hammer
- Tap wrench
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

**Buy tools**

Replacement: coil springs – VW Passat CC (357). 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.
- Please note: all work on the car – VW Passat CC (357) – 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** Remove the cowl grille seal.



**4** Remove the clips of the plastic cowl grille.



**5** Raise the wiper plastic cowl grille.



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



**7** Loosen the upper fasteners of the suspension strut. Use a drive socket #13. Use a ratchet wrench.



**8** Secure the wheels with chocks.

**9** Loosen the wheel mounting bolts. Use wheel impact socket #17.



**10** Raise the front of the car and secure on supports.

**11** Unscrew the wheel bolts.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. VW Passat CC (357)

**12** Remove the wheel.



- 13 Clean all joints of the stabiliser link. Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



- 14 Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #18. Use a ratchet wrench.



- 15 Remove the stabilizer rod.



- 16 Clean the brake hose bracket fasteners. Use a wire brush. Use WD-40 spray.



17

Unscrew the brake hose fastening bracket from the shock strut. Use a combination spanner #10.



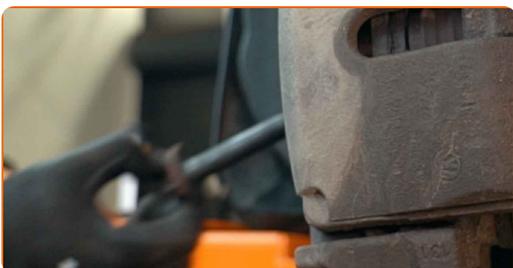
18

Loosen the fastener of the driveshaft. Use a drive socket #27. Use a ratchet wrench.



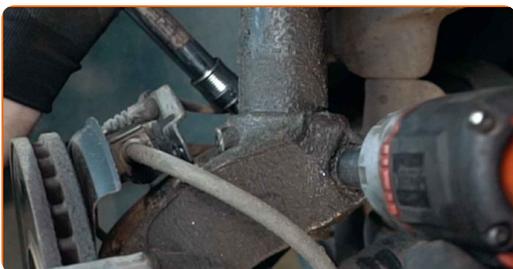
19

Remove the fastening bolt.



20

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



**21** Clean the fasteners connecting the ball joint to the suspension control 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 #16. Use a ratchet wrench.



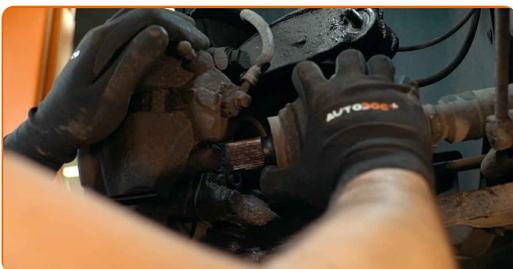
**23** Disconnect the ball joint from the arm. Use a crowbar.



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



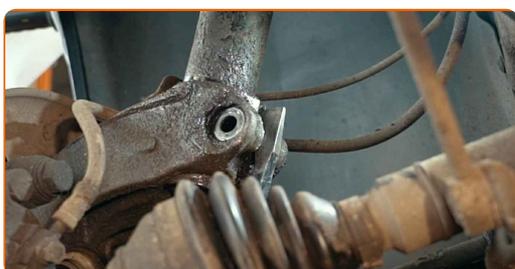
**25** Detach the driveshaft from the steering knuckle. Use a pin punch. Use a hammer.



**26** Remove the fastening bolt.



**27** Release the lower fastener connecting the shock strut to the steering knuckle. Use a flat metal-working chisel. Use a hammer.



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



**29** Unscrew the upper fasteners of the shock strut.



**AUTODOC recommends:**

- VW Passat CC (357) – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

**30**

Remove the suspension strut.



**31**

Set the shock absorber strut on the spring compressor tool.



**Replacement: coil springs – VW Passat CC (357). AUTODOC recommends:**

- 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.

**32**

Compress the spring.



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



**34** Remove the strut piston rod nut. Use a drive socket #22. Use HEX No.H7. Use a ratchet wrench.



**35** Remove the top strut mount.



**36** Release the coil spring.



**37** Remove the spring.



**38** Remove the shock absorber dust cap and the bump stop.



**AUTODOC recommends:**

- Replacement: coil springs – VW Passat CC (357). Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

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



**40** Compress the spring.



**41** Install the boot and a bump stop onto the shock absorber.



**42** Install the upper strut mount and the strut mount bearing.



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



Replacement: coil springs – VW Passat CC (357). Professionals recommend:

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

**44** Treat the shock strut rod. Use copper grease.



**45** Decompress the spring.



**46** Remove the assembled shock strut.



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



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



**49** Secure the upper fasteners of the shock strut. Do not tighten it.

**AUTODOC recommends:**

- VW Passat CC (357) – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

**50**

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



**51**

Fix the shock absorber strut on the steering knuckle.



**52**

Install the fastening bolt.



**53**

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.



54

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



55

Remove the support from under the steering knuckle.



**AUTODOC recommends:**

- Replacement: coil springs – VW Passat CC (357). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

56

Install the drive shaft.



**57** Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.



**58** Attach the ball joint to the control arm.



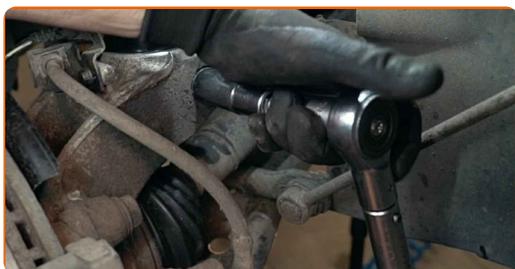
**59** Tighten the fasteners connecting the ball joint to the control arm. Use a drive socket #16. Use a torque wrench. Tighten it to 60 Nm torque.



**60** Tighten the brake hose fastening bracket to the shock strut. Use a combination spanner #10.



- 61** Tighten the lower fastening of the shock absorber. Use a drive socket #18. Use XZN #14. Use a ratchet wrench. Use a torque wrench. Tighten it to 70 Nm torque.+90°



**AUTODOC recommends:**

- Important! Be sure to use new fasteners.

- 62** Clean the mounting seats of the stabiliser link. Use a wire brush. Use WD-40 spray.



- 63** Install the transverse stabilizer link.



- 64 Tighten the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #18. Use a drive socket #18. Use XZN #6. Use a torque wrench. Tighten it to 55 Nm torque.



- 65 Install and tighten the drive shaft bolt. Use a drive socket #27. Use a ratchet wrench.



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



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



68

Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: coil springs – VW Passat CC (357). After applying the spray, wait a few minutes.

69

Install the wheel.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. VW Passat CC (357)

70

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



**71** Lower the car.



**72** Tighten the bolt connecting the drive shaft to the wheel hub. Use a drive socket #27. Use a torque wrench. Tighten it to 70 Nm torque.+90°



**AUTODOC recommends:**

- Important! Be sure to use new fasteners.

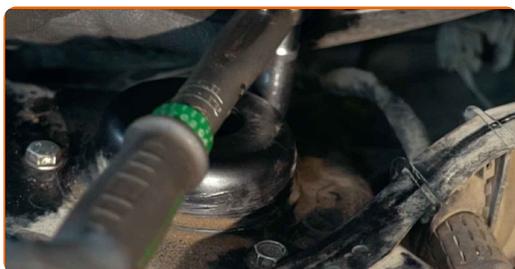
**73** Tighten the wheel bolts using a criss-cross pattern. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 Nm torque.



**74** Remove the jacks and chocks.



- 75 Tighten the upper fasteners of the shock strut. 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.

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



- 77 Install and secure the cowl grille.



**78** Install the fasteners of the wiper plastic cowl grille.



**79** Install the cowl grille seal.



**80** Remove the fender protection cover.



**81** Close the hood.

**WELL DONE!** 

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