



How to change front  
strut mount on **VOLVO**  
**S80 I (184)** – replacement  
guide

### SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

#### **Important!**

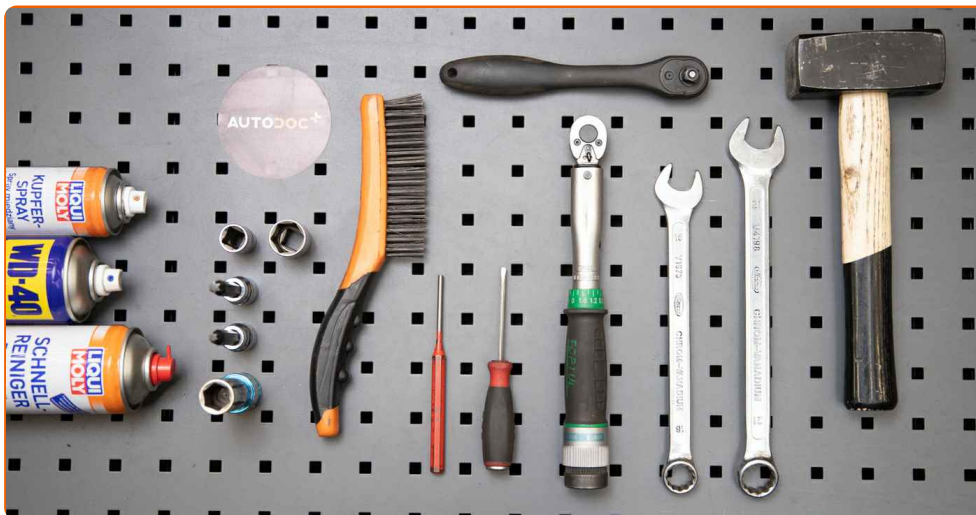
This replacement procedure can be used for:

VOLVO S80 I (184) 2.9, VOLVO S80 I (184) 2.8 T6, VOLVO S80 I (184) 2.4, VOLVO S80 I (184) 2.0 T, VOLVO S80 I (184) 2.5 TDI, VOLVO S80 I (184) 2.0, VOLVO S80 I (184) 2.4 T, VOLVO S80 I (184) 2.4 D5, VOLVO S80 I (184) 2.4 Bifuel (CNG), VOLVO S80 I (184) 3.0, VOLVO S80 I (184) 3.0 T6, VOLVO S80 I (184) 2.4 D, VOLVO S80 I (184) 2.5 T AWD, VOLVO S80 I (184) 2.5 T, VOLVO S80 I (184) 2.3 R, (+ 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: VOLVO XC90 I (275) 2.4 D5

**REPLACEMENT: STRUT MOUNT – VOLVO S80 I (184).  
TOOLS YOU MIGHT NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 13
- Drive socket # 21
- Combination spanner #18
- Combination spanner #21
- Torx bit T40
- Torx bit T50
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Pin punch
- Hammer
- Flat Screwdriver
- Hydraulic strut spring compressor
- Fender cover
- Wheel chock

**Buy tools**

Replacement: strut mount – VOLVO S80 I (184). AUTODOC experts recommend:

- The replacement procedure is identical for the mounts of the left and right shock struts of the front suspension.
- All mounts of the front shock struts should be replaced simultaneously.
- Please note: all work on the car – VOLVO S80 I (184) – should be done with the engine switched off.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

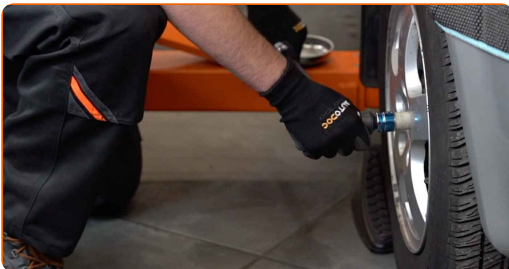
1

Secure the wheels with chocks.



2

Loosen the wheel mounting bolts. Use wheel impact socket #19.



3

Raise the front of the car and secure on supports.

4

Unscrew the wheel bolts.

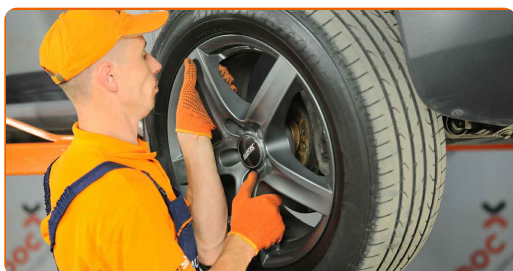


**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
VOLVO S80 I (184)

5

Remove the wheel.

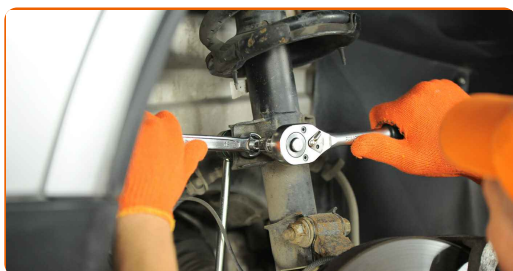


6

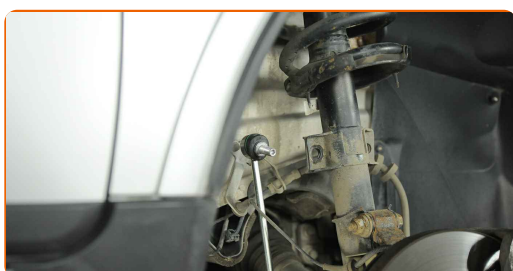
Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



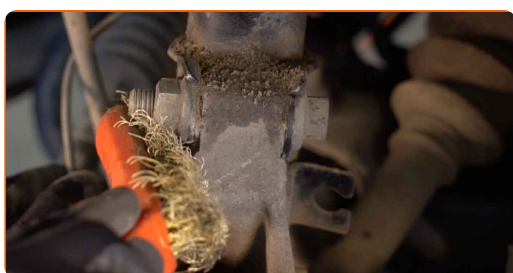
- 7** Unscrew the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #18. Use Torx T40. Use a ratchet wrench.



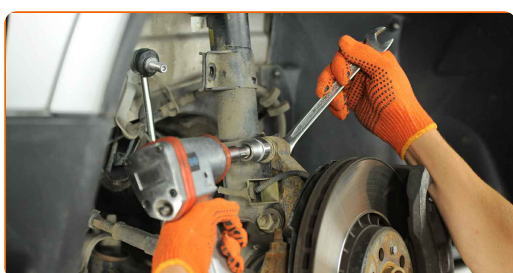
- 8** Remove the stabilizer rod.



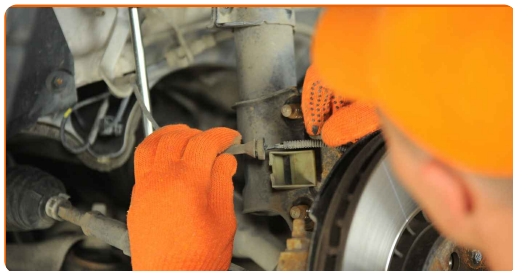
- 9** Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



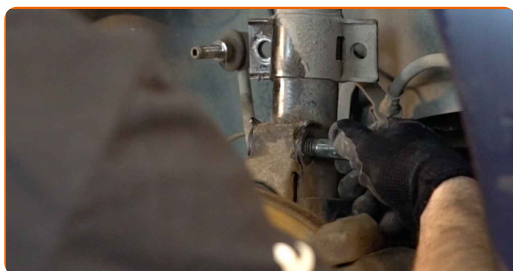
- 10** Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #21. Use a ratchet wrench.



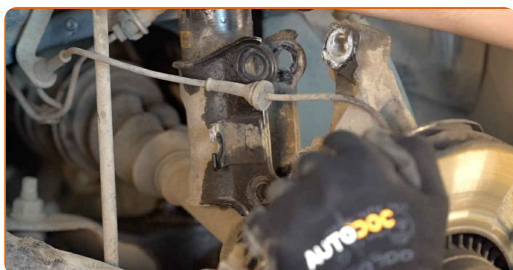
**11** Disconnect the ABS sensor wiring.



**12** Remove the fastening bolts.



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

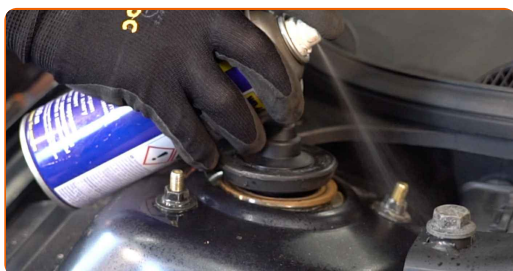


**14** Lower the car.

**15** Open the bonnet.

**16** Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

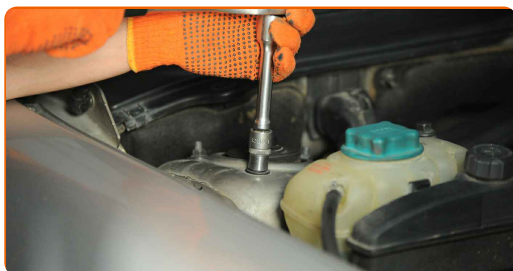
**17** Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.





18

Unscrew the upper fasteners of the shock strut. Use a drive socket #13. Use a ratchet wrench.

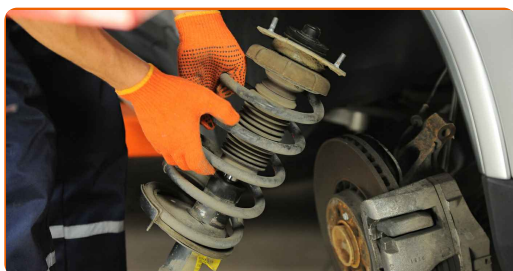


**AUTODOC recommends:**

- VOLVO S80 I (184) – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

19

Remove the suspension strut.



20

Set the shock absorber strut on the spring compressor tool.





Replacement: strut mount – VOLVO S80 I (184). 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.

21

Compress the spring.



22

Remove the suspension strut mount cap. Use a flat screwdriver.



23

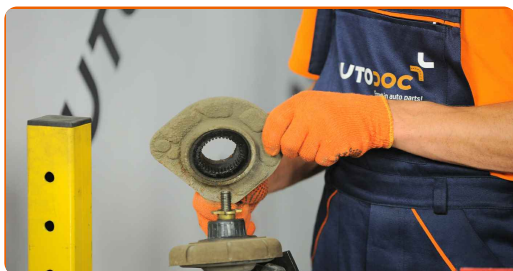
Treat the shock strut rod. Use a wire brush. Use WD-40 spray.

24

Remove the strut piston rod nut. Use a combination spanner #21. Use Torx T50. Use a ratchet wrench.



**25** Remove the top strut mount.

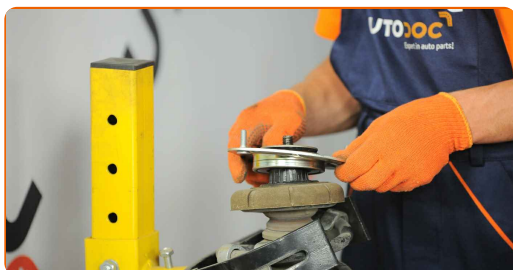


Replacement: strut mount – VOLVO S80 I (184). Tip from AUTODOC:

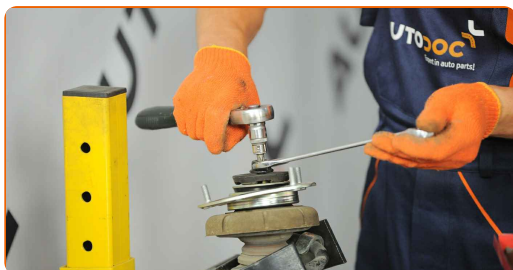
- Examine the shock absorber dust cap and the bump stop. Replace them if necessary.

**26** Clean the mounting seat of the shock strut mount. Use a wire brush. Use WD-40 spray.

**27** Install a new top shock strut mount.



**28** Tighten the shock strut piston rod nut. Use a combination spanner #21. Use Torx T50. Use a torque wrench. Tighten it to 70 Nm torque.



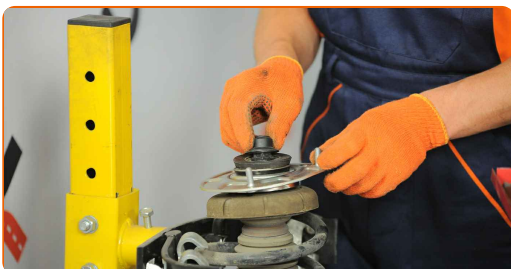
Replacement: strut mount – VOLVO S80 I (184). Tip:

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

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

**30** Decompress the spring.

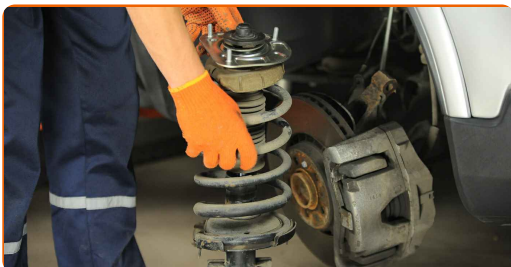
**31** Install the suspension strut mount cap.



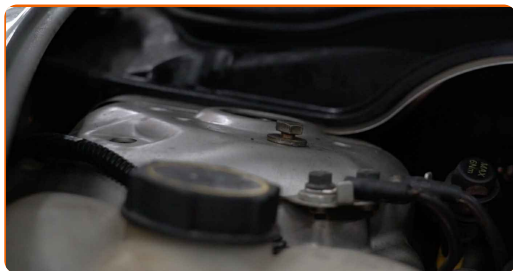
**32** Remove the assembled shock strut.



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



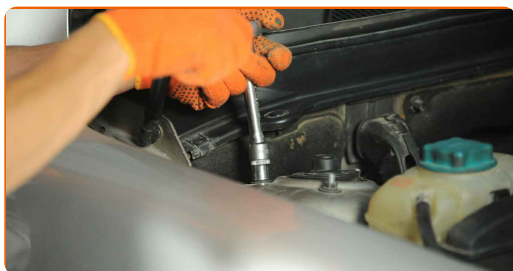
**34** Secure the upper fasteners of the shock strut.



**AUTODOC recommends:**

- VOLVO S80 I (184) – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

**35** Tighten the upper fasteners of the shock strut. Use a drive socket #13. Use a torque wrench. Tighten it to 25 Nm torque.

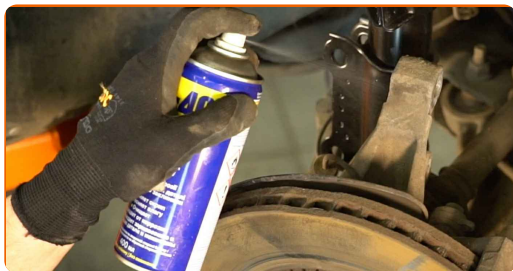


**36** Remove the fender protection cover.

**37** Close the hood.

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

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



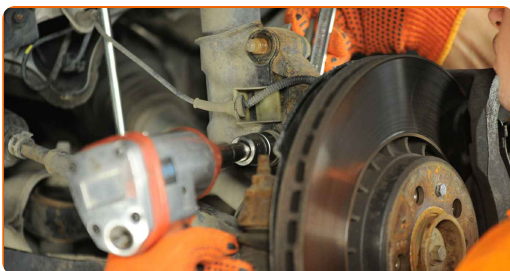
**40** Fix the shock absorber strut on the steering knuckle.



**41** Install the fastening bolts.



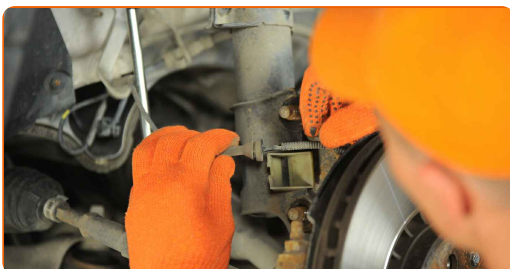
**42** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #21. Use a torque wrench. Tighten it to 105 Nm torque.+75°



**AUTODOC recommends:**

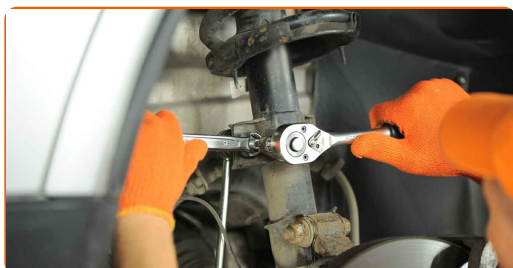
- Important! Be sure to use new fasteners.

**43** Connect the ABS sensor wiring.



**44** Install the transverse stabilizer link.

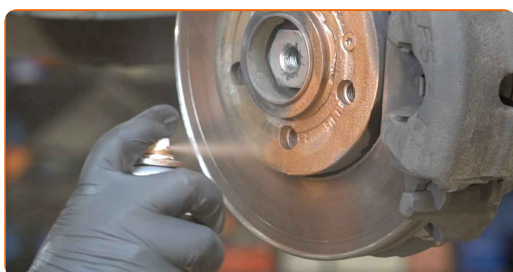
**45** Tighten the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #18. Use Torx T40. Use a torque wrench. Tighten it to 90 Nm torque.



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



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



**48** Clean the brake disk surface. Use a brake cleaner.



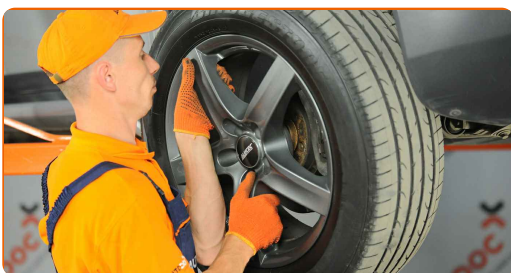


**AUTODOC recommends:**

- Replacement: strut mount – VOLVO S80 I (184). After applying the spray, wait a few minutes.

**49**

Install the wheel.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. VOLVO S80 I (184)

**50**

Screw in the wheel bolts. Use wheel impact socket #19.



**51**

Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #19. Use a torque wrench. Tighten it to 140 nm torque.





52

Remove the jacks and chocks.



**WELL DONE!** 

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