



How to change front  
suspension strut on  
**RENAULT Twingo I Van** –  
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:  
RENAULT Twingo I Van 1.2

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: RENAULT Twingo I Hatchback 1.2

**REPLACEMENT: SUSPENSION STRUT – RENAULT TWINGO I VAN. TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- Combination spanner #21
- Drive socket # 17
- Drive socket # 18
- Drive socket # 21
- HEX bit no.H6.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Tap wrench
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

**Buy tools**

Replacement: suspension strut – RENAULT Twingo I Van. AUTODOC recommends:

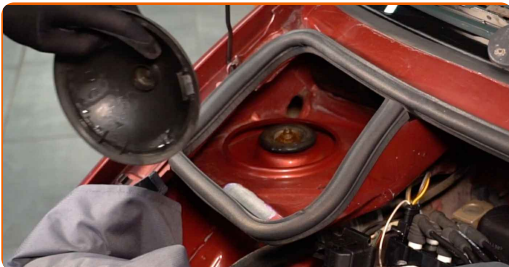
- Both shock struts of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the front suspension.
- Please note: all work on the car – RENAULT Twingo I Van – should be done with the engine switched off.

**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 shock strut mount cap.



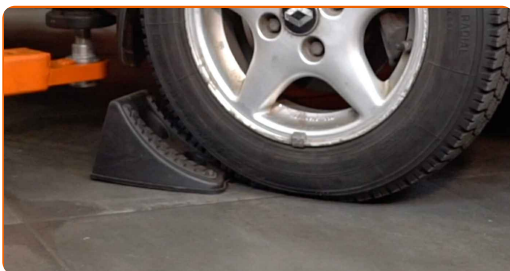
**4** Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.



- 5 Loosen the upper fastener of the shock strut mount. Use HEX No.H6. Use a combination spanner #21. Use a ratchet wrench.



- 6 Secure the wheels with chocks.



- 7 Loosen the wheel mounting bolts. Use wheel impact socket #17.



- 8 Raise the front of the car and secure on supports.

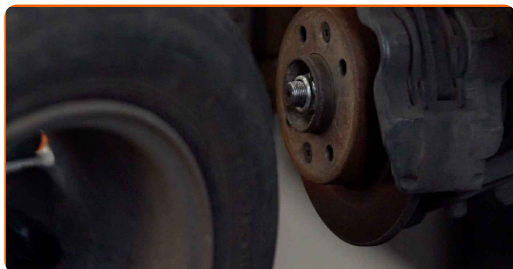
- 9 Unscrew the wheel bolts.



Replacement: suspension strut – RENAULT Twingo I Van. Tip:

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

**10** Remove the wheel.



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



**12** 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.

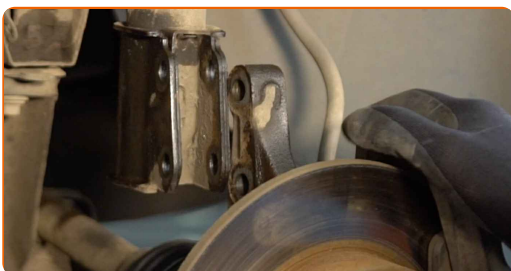


**13** Prop up the steering knuckle. Use a hydraulic transmission jack.

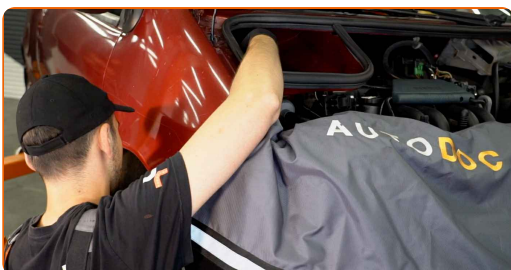
**14** Remove the fastening bolts.



**15** Disconnect the steering knuckle from the shock absorber strut. Use a crowbar.



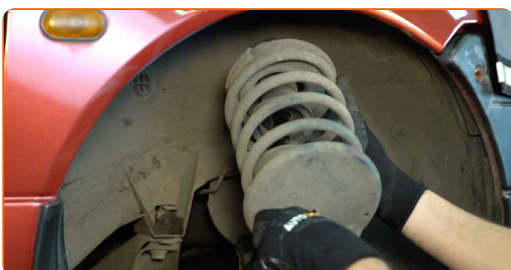
**16** Unscrew the top fastening of the shock strut mount. Use a drive socket #21.



**AUTODOC recommends:**

- Important! Hold the suspension strut while unscrewing the fastening bolts.  
RENAULT Twingo I Van

**17** Remove the suspension strut.



**18**

Set the shock absorber strut on the spring compressor tool.



**Replacement: suspension strut – RENAULT Twingo I Van. AUTODOC experts 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.

**19**

Compress the spring.



**20**

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





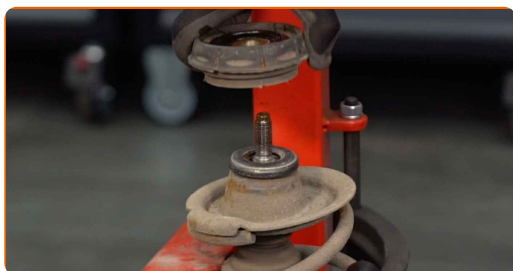
21

Remove the strut piston rod nut. Use a drive socket #17. Use HEX No.H6. Use a ratchet wrench.



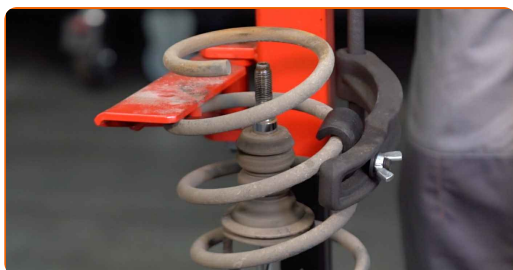
22

Remove the top strut mount.



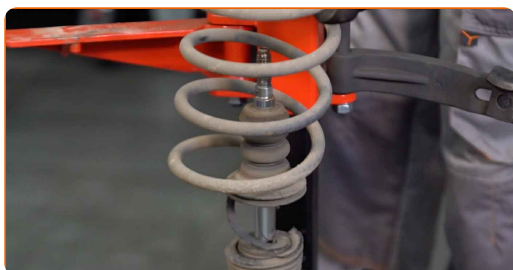
23

Release the coil spring.



24

Remove the spring.



25

Remove the shock absorber dust cap and the bump stop.

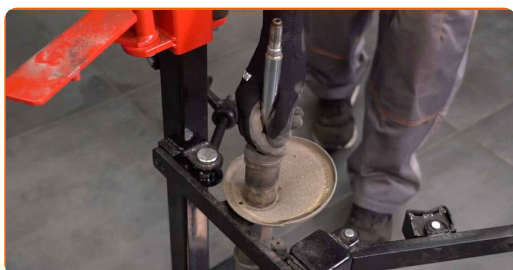


**AUTODOC recommends:**

- Replacement: suspension strut – RENAULT Twingo I Van. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

**26**

Remove the old shock absorber from the hydraulic coil spring compressor.



**Replacement: suspension strut – RENAULT Twingo I Van. Tip from AUTODOC:**

- Before installing a new shock absorber you should pump it manually 3-5 times.

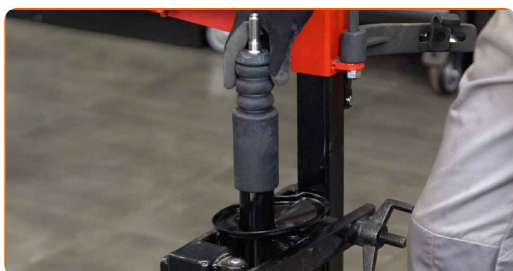
**27**

Install the new shock absorber on the hydraulic coil spring compressor.

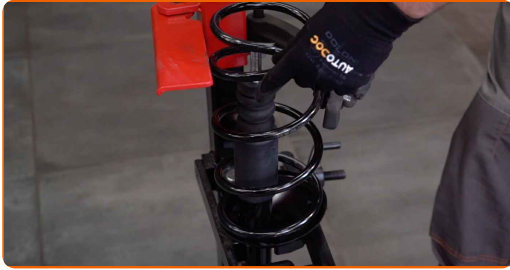


**28**

Install the dust sleeve and the bump stop on the new shock absorber.



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



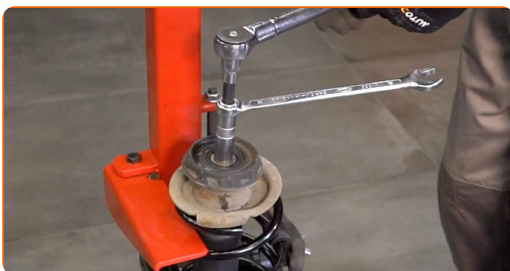
**30** Compress the spring.



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



**32** Tighten the shock strut piston rod nut. Use a drive socket #17. Use HEX No.H6. Use a torque wrench. Tighten it to 25 Nm torque.



Replacement: suspension strut – RENAULT Twingo I Van. Tip from AUTODOC experts:

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

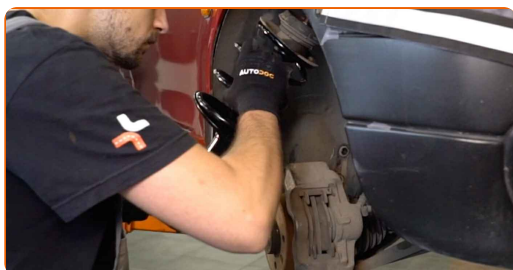
**33** Decompress the spring.



**34** Remove the assembled shock strut.



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



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



**AUTODOC recommends:**

- RENAULT Twingo I Van – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

37

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



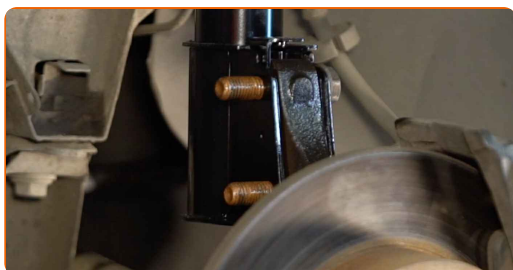
38

Fix the shock absorber strut on the steering knuckle.



39

Install the fastening bolts.



40

Remove the support from under the steering knuckle.

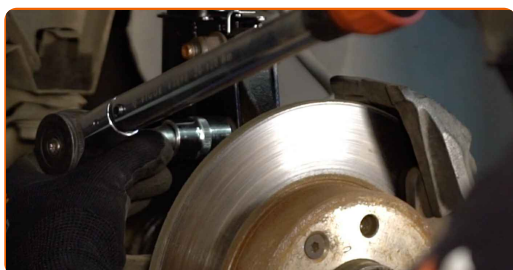
### AUTODOC recommends:

- Replacement: suspension strut – RENAULT Twingo I Van. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

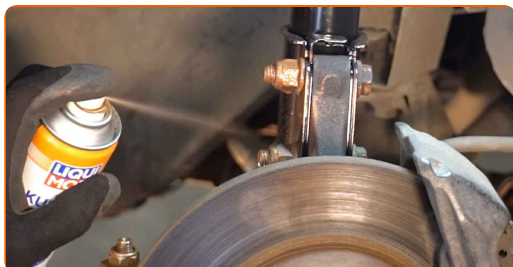
- 41** Screw in the fastener that connects the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18.



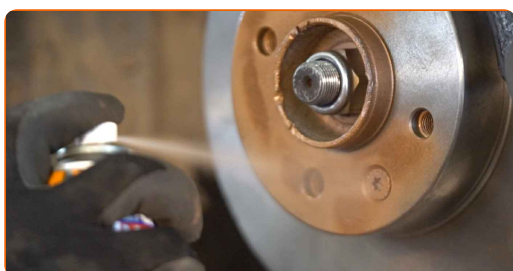
- 42** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 110 Nm torque.



- 43** Treat the shock strut fasteners. Use copper grease.

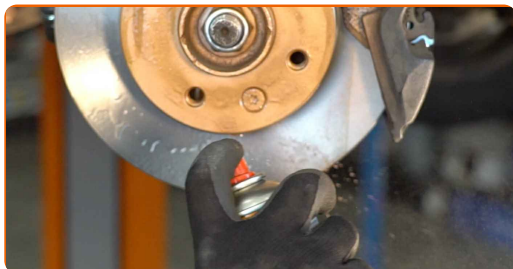


- 44** Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



45

Clean the brake disk surface. Use a brake cleaner.

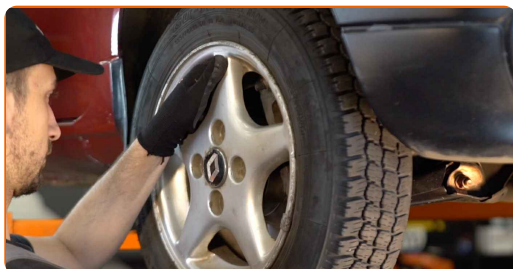


**AUTODOC recommends:**

- Replacement: suspension strut – RENAULT Twingo I Van. After applying the spray, wait a few minutes.

46

Install the wheel.

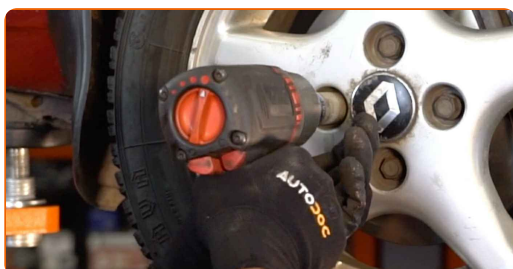


**Replacement: suspension strut – RENAULT Twingo I Van. AUTODOC recommends:**

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

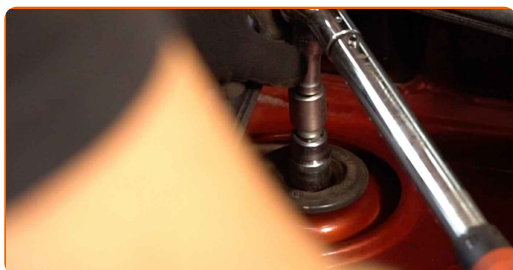
47

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



**48** Lower the car.

**49** Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #21. Use HEX No.H6. Use a torque wrench. Tighten it to 60 Nm torque.



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



**51** Install the shock strut mount cap.



**52** Remove the fender protection cover.

**53** Close the hood.

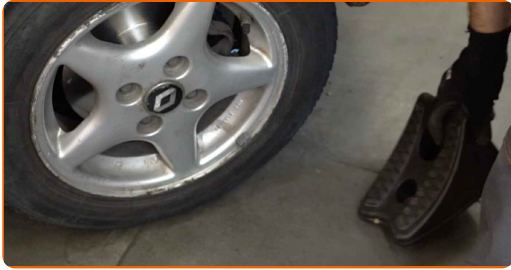
**54** Tighten the wheel bolts using a criss-cross pattern. Use a torque wrench. Tighten it to 90 Nm torque.





55

Remove the jacks and chocks.



**WELL DONE!** 

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