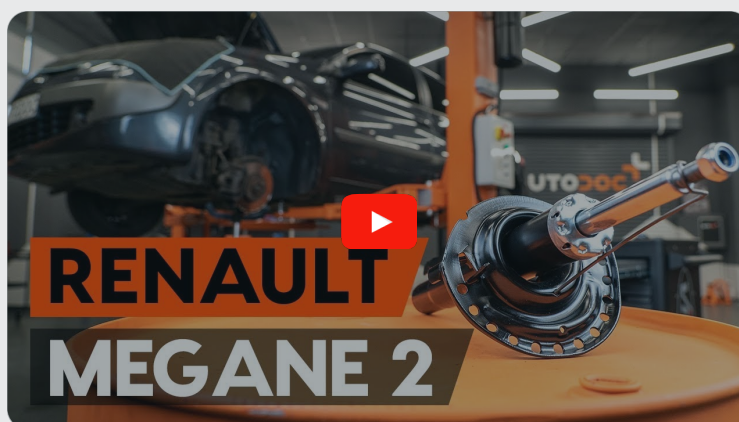




How to change front  
suspension strut on  
**RENAULT MEGANE II**  
**Coupé-Cabriolet**  
**(EM0/1\_)** – replacement  
guide

### 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 MEGANE II Coupé-Cabriolet (EM0/1\_) 1.6, RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_) 2.0, RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_) 1.9 dCi, RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_) 2.0 16V Turbo, RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_) 1.5 dCi, RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_) 1.6 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: RENAULT MEGANE II Saloon (LM0/1\_) 1.4

**REPLACEMENT: SUSPENSION STRUT – RENAULT MEGANE II COUPÉ-CABRIOLET (EM0/1\_). TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # 13
- Drive socket # 19
- HEX bit No.H6.
- Combination spanner #17
- Combination spanner #18
- Combination spanner #19
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Tap wrench
- Hammer
- Flat chisel
- Clip removal tool
- Crow bar
- Hydraulic transmission jack
- Hydraulic strut spring compressor
- Fender cover
- Wheel chock

**Buy tools**

Replacement: suspension strut – RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_). Professionals recommend:

- 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.
- Warning! Shut down the engine before starting any work – RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_)

**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.

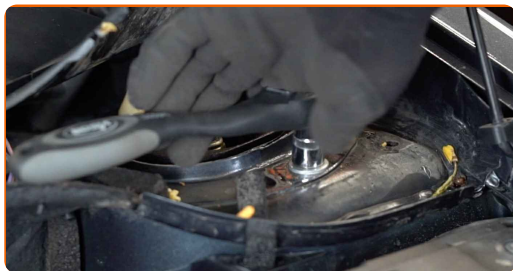
**3** Remove the retainers of the shock strut mount cap. Use a clip removal tool.



**4** Raise a little the shock strut mount cap. Treat the fasteners of the shock strut mount. Use WD-40 spray.



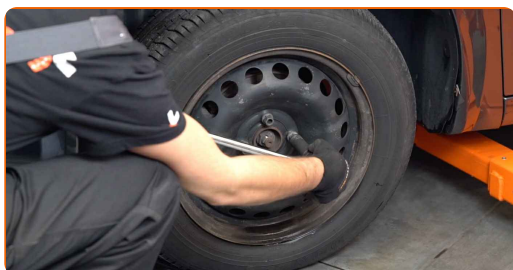
**5** Loosen the upper fastener of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.



**6** Secure the wheels with chocks.

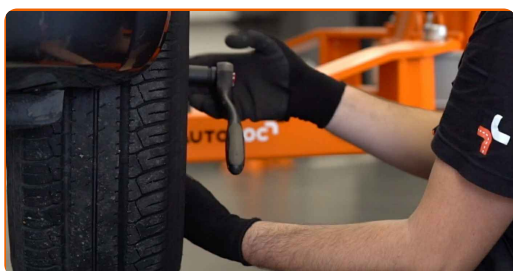


**7** Loosen the wheel mounting bolts. Use wheel impact socket #19.



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

**9** Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_)

10

Remove the wheel.



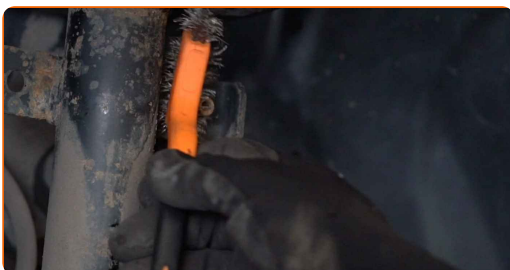
11

Disconnect the wiring and the brake hose from the bracket on the shock strut. Use a crowbar.

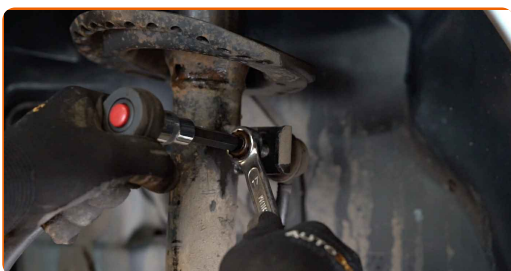


12

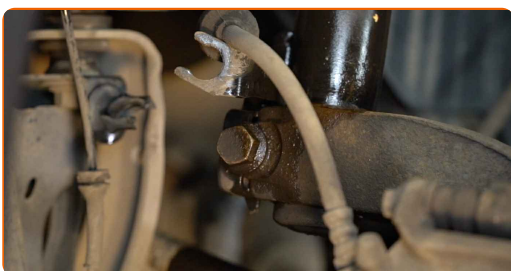
Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



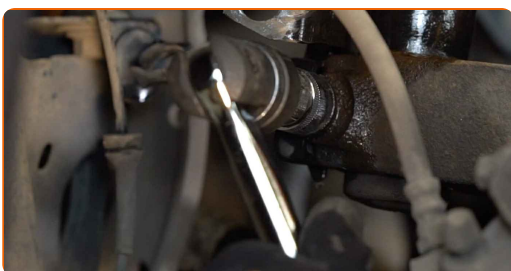
- 13** Unscrew the nut and remove the stabilizer rod from the shock strut. Use HEX No.H6. Use a combination spanner #17. Use a ratchet wrench.



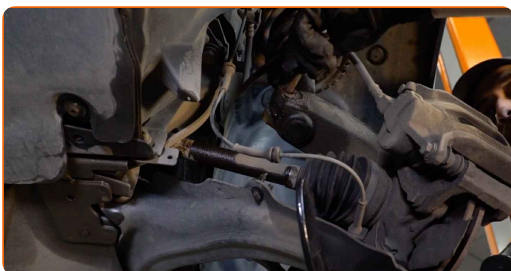
- 14** Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



- 15** Unscrew the lower fastener of the shock absorber strut. Use a drive socket #19. Use a tap wrench.



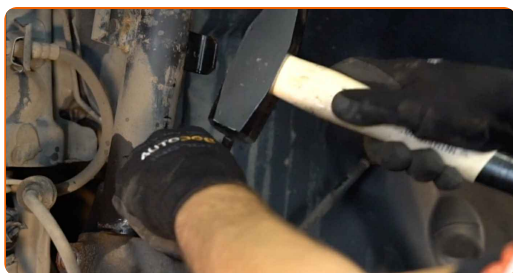
- 16** Remove the fastening bolt.



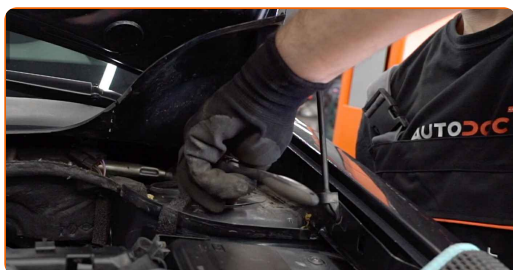
Replacement: suspension strut – RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_). Tip:

- Make sure that the steering knuckle is supported.

**17** Disconnect the steering knuckle from the shock absorber strut. Use a hammer. Use a flat metal-working chisel.



**18** Unscrew the upper fastening of the shock absorber strut. Use a drive socket #13. Use a ratchet wrench.



Replacement: suspension strut – RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_). Tip from AUTODOC:

- To avoid injuries, hold the shock strut when undoing the fastening bolts.

**19** Remove the suspension strut.





**20**

Set the shock absorber strut on the spring compressor tool.

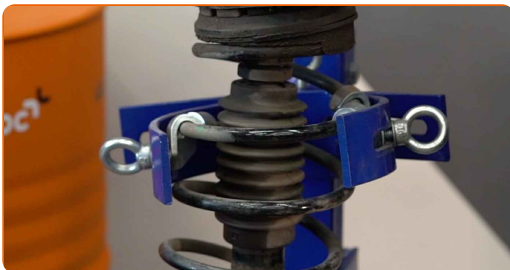


**Replacement: suspension strut – RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_). AUTODOC experts recommend:**

- 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.

**21**

Compress the spring.



**22**

Remove the strut piston rod nut. Use HEX No.H6. Use a combination spanner #18. Use a ratchet wrench.



**23** Remove the top strut mount.



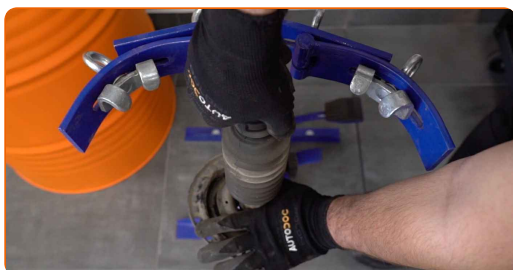
**24** Release the coil spring.



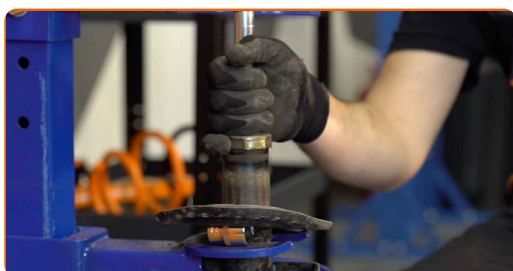
**25** Remove the spring.



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



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



**AUTODOC recommends:**

- Replacement: suspension strut – RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_). Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.
- Before installing a new shock absorber you should pump it manually 3-5 times.

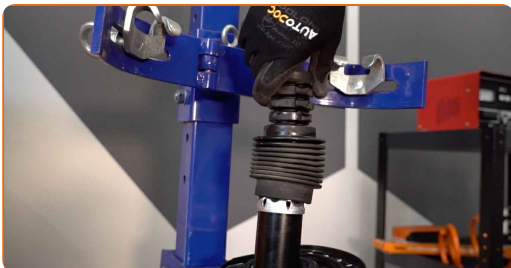
**28**

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



**29**

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



**30**

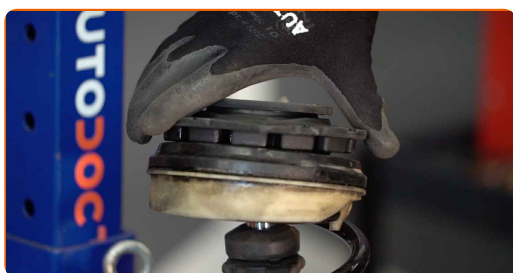
Install the spring on the shock absorber.



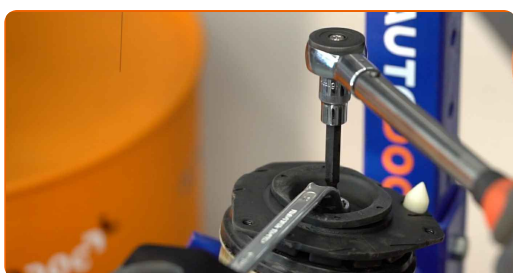
**31** Compress the spring.



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



**33** Tighten the shock strut piston rod nut. Use HEX No.H6. Use a combination spanner #18. Use a torque wrench. Tighten it to 62 Nm torque.



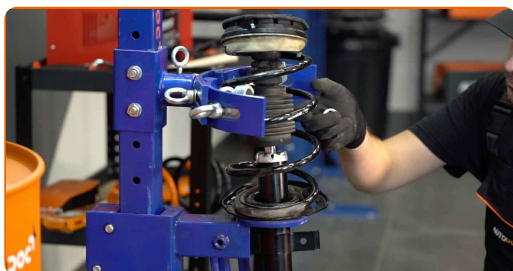
Replacement: suspension strut – RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_). AUTODOC recommends:

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

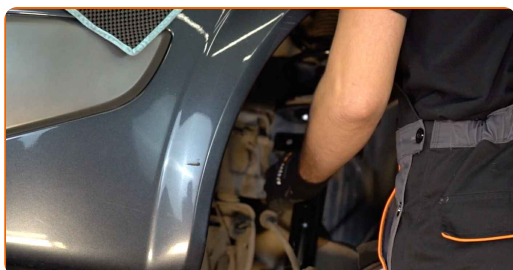
**34** Decompress the spring.



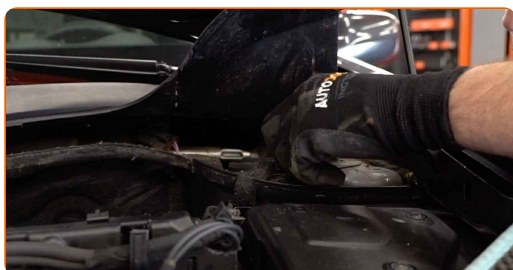
**35** Remove the assembled shock strut.



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



**37** Secure the upper fasteners of the shock strut (3 pieces). Do not tighten it.

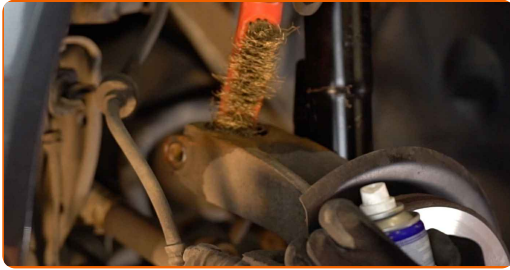


**AUTODOC recommends:**

- RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_) – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

38

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



39

Fix the shock absorber strut on the steering knuckle.



40

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



41

Install and tighten a new bolt of the steering knuckle. Use a drive socket #19. Use a combination spanner #19. Use a torque wrench. Tighten it to 105 Nm torque.



**42**

Remove the support from under the steering knuckle.

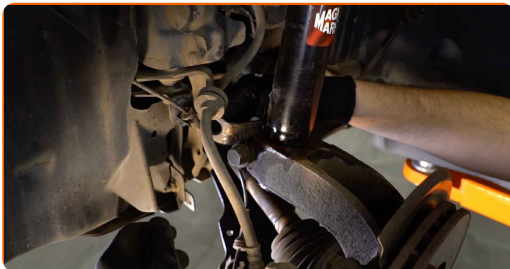


**AUTODOC recommends:**

- Replacement: suspension strut – RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

**43**

Connect the fastener of the ABS sensor cable to the shock absorber strut. Fasten the brake hose on the strut.



**44**

Secure the stabilizer link on the suspension strut. Use HEX No.H6. Use a combination spanner #17. Use a torque wrench. Tighten it to 44 Nm torque.



45

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



46

Install the wheel.

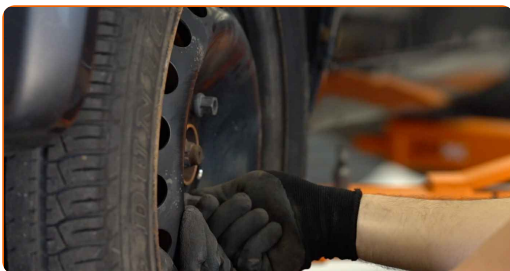


Replacement: suspension strut – RENAULT MEGANE II Coupé-Cabriolet (EM0/1\_). Tip from AUTODOC experts:

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

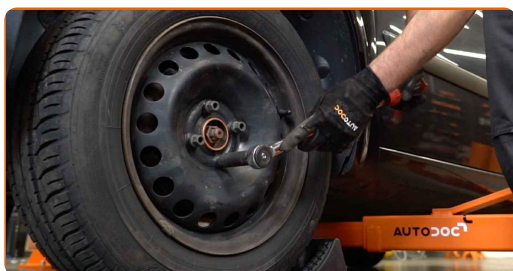
47

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

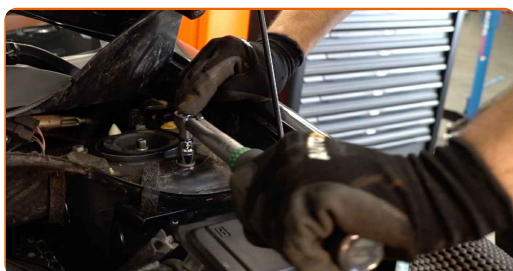




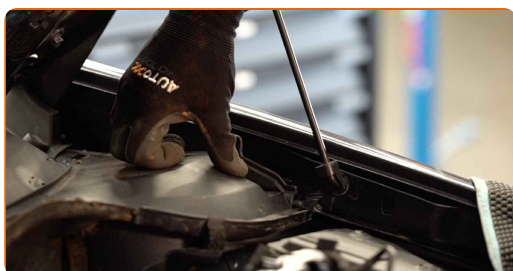
- 48 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 110 Nm torque.



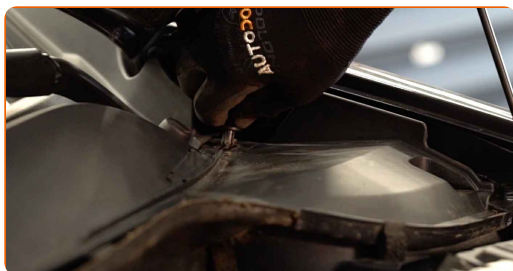
- 49 Tighten the shock strut top mount. Use a drive socket #13. Use a torque wrench. Tighten it to 21 Nm torque.



- 50 Install the shock strut mount cap.



- 51 Install the retainers of the shock strut mount cap.



- 52 Remove the fender protection cover.

- 53 Close the hood.

54

Remove the jacks and chocks.



**WELL DONE!** 

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