



How to change front coil
springs on **RENAULT**
Kangoo I Express (FC) –
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 Kangoo I Express (FC) 1.2, RENAULT Kangoo I Express (FC) 1.4, RENAULT Kangoo I Express (FC) 1.2 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 Kangoo I (KC) 1.2 16V

REPLACEMENT: COIL SPRINGS – RENAULT KANGOO I EXPRESS (FC). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Combination spanner #14
- Combination spanner #19
- Combination spanner #21
- Drive socket # 21
- HEX bit No.H6.
- Wheel impact socket #19
- Pin punch
- Hammer
- Tap wrench
- Ratchet wrench
- Torque wrench
- Crow bar
- Hydraulic transmission jack
- Hydraulic strut spring compressor
- Fender cover
- Wheel chock

Buy tools

Replacement: coil springs – RENAULT Kangoo I Express (FC). Tip from AUTODOC experts:

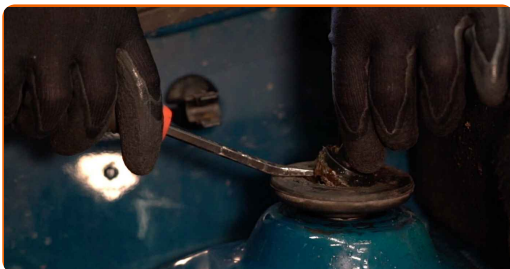
- Both coil springs of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the front suspension.
- Please note: all work on the car – RENAULT Kangoo I Express (FC) – should be done with the engine switched off.

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. Use a crowbar.



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



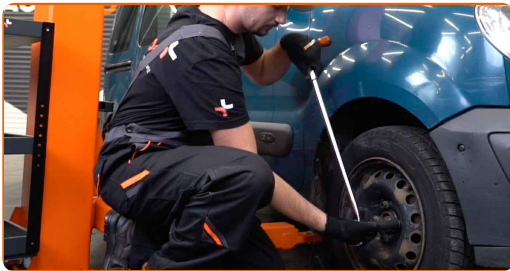
5

Secure the wheels with chocks.



6

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

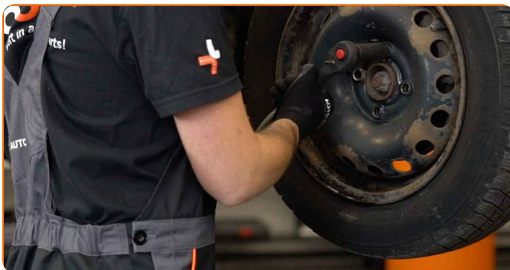


7

Raise the front of the car and secure on supports.

8

Unscrew the wheel bolts.

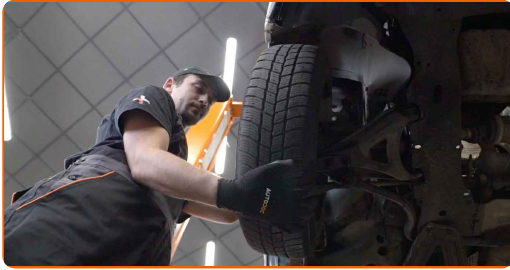


AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. RENAULT Kangoo I Express (FC)

9

Remove the wheel.



10

Clean the shock strut fasteners. Use a wire brush. Use WD-40 spray.



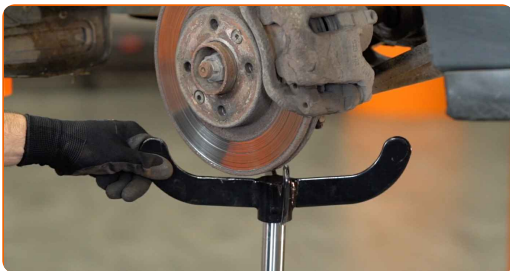
11

Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #21. Use a combination spanner #21. Use a tap wrench.



12

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



13 Remove the fastening bolts (2 pieces). Use a hammer. Use a pin punch.



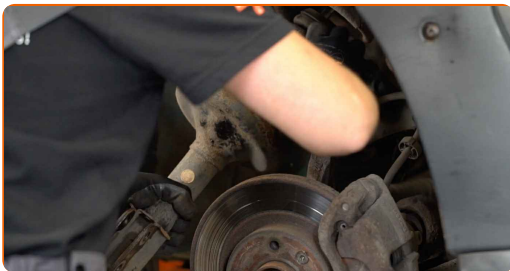
14 Unscrew the upper fastening of the shock absorber strut. Use a drive socket #21.



AUTODOC recommends:

- RENAULT Kangoo I Express (FC) – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

15 Remove the suspension strut.



16 Set the shock absorber strut on the spring compressor tool.



Replacement: coil springs – RENAULT Kangoo I Express (FC). Tip from AUTODOC:

- 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.

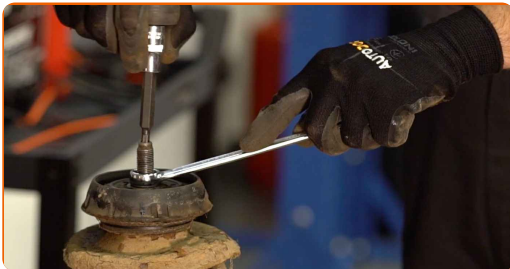
17

Compress the spring.



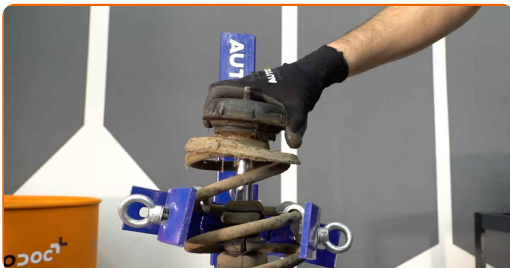
18

Remove the strut piston rod nut. Use HEX No.H6. Use a combination spanner #14. Use a ratchet wrench.



19

Remove the top strut mount.



20

Release the coil spring.



21

Remove the spring.



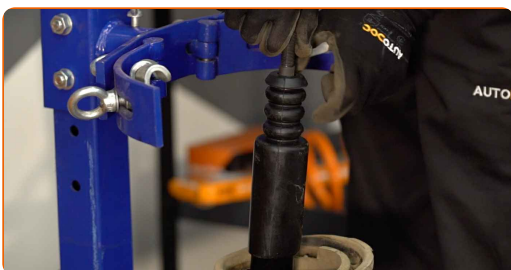
22

Remove the shock absorber dust cap and the bump stop.



23

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

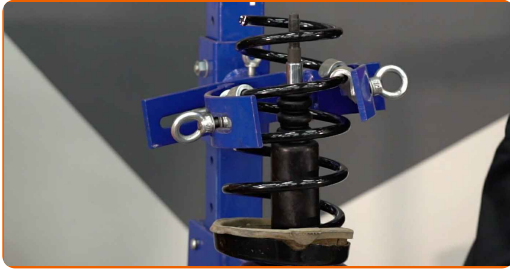


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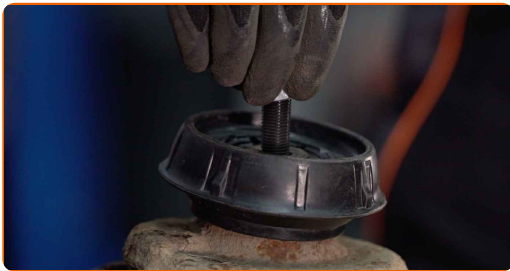
Install the spring on the shock absorber.



25 Compress the spring.



26 Install the top shock strut mount.



27 Tighten the shock strut piston rod nut. Use HEX No.H6. Use a combination spanner #14. Use a torque wrench. Tighten it to 60 Nm torque.



Replacement: coil springs – RENAULT Kangoo I Express (FC). AUTODOC recommends:

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

28

Decompress the spring.



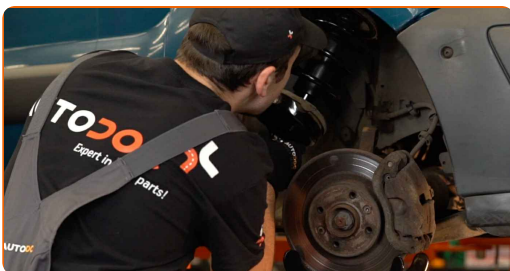
29

Remove the assembled shock strut.



30

Install the shock strut into the wheel arch. Tighten the upper fastening nut of the shock absorber strut. Do not tighten it.



AUTODOC recommends:

- RENAULT Kangoo I Express (FC) – 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.



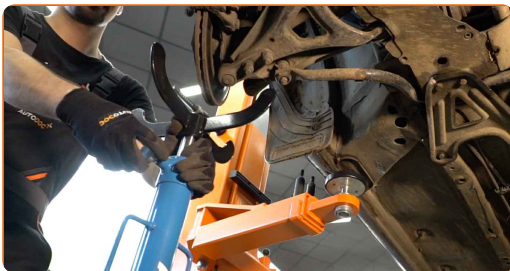
33

Install and tighten new bolts of the steering knuckle. Use a drive socket #21. Use a combination spanner #21. Use a torque wrench. Tighten it to 140 Nm torque.



34

Remove the support from under the steering knuckle.



AUTODOC recommends:

- Replacement: coil springs – RENAULT Kangoo I Express (FC). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

35

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



36

Install the wheel.



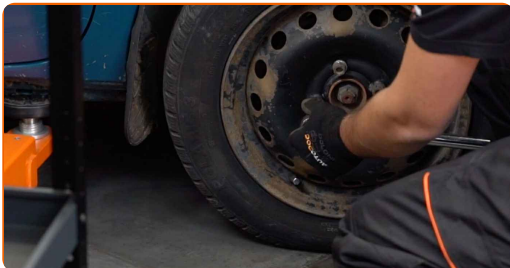
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. RENAULT Kangoo I Express (FC)

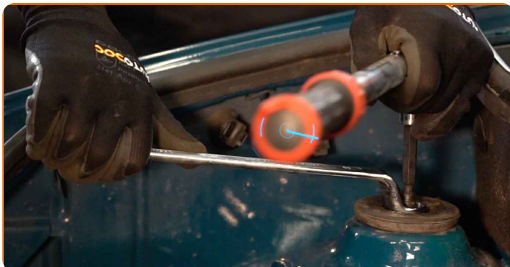
37 Screw in the wheel bolts. Use wheel impact socket #19.



38 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 110 Nm torque.



39 Tighten the shock strut top mount. Use a combination spanner #21. Use HEX No.H6. Use a torque wrench. Tighten it to 62 Nm torque.



40 Install the shock strut mount cap.



41 Remove the fender protection cover.

42 Close the hood.

43

Remove the jacks and chocks.



WELL DONE!

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COIL SPRINGS: A WIDE SELECTION

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