



How to change front coil
springs on **Nissan Micra**
K11 – replacement guide

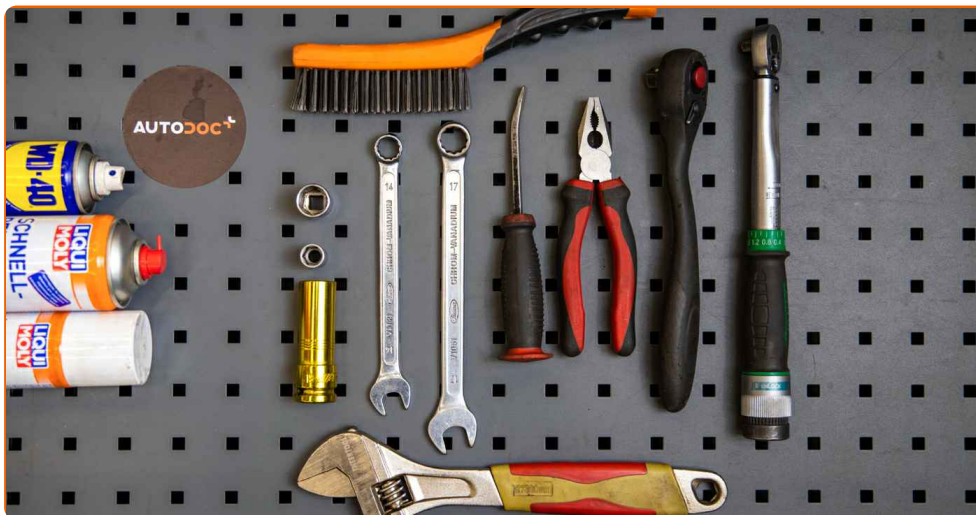
VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:
NISSAN MICRA II (K11) 1.0 i 16V, NISSAN MICRA II (K11) 1.4 i 16V

The steps may slightly vary depending on the car design.

REPLACEMENT: COIL SPRINGS – NISSAN MICRA K11.
TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 12
- Drive socket # 17
- Combination spanner #14
- Combination spanner #17
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Adjustable wrench
- Hydraulic strut spring compressor
- Pliers
- Rubber mallet
- Fender cover
- Wheel chock

BUY TOOLS

Replacement: coil springs – Nissan Micra K11. 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 – Nissan Micra K11 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Secure the wheels with chocks.



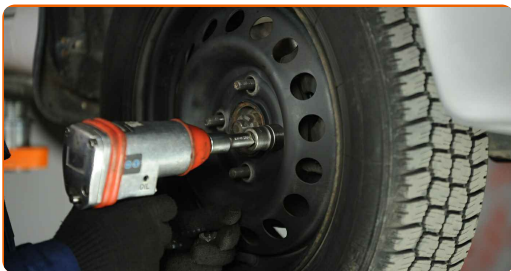
2 Loosen the wheel mounting bolts. Use wheel impact socket #19.



3 Raise the front of the car and secure on supports.



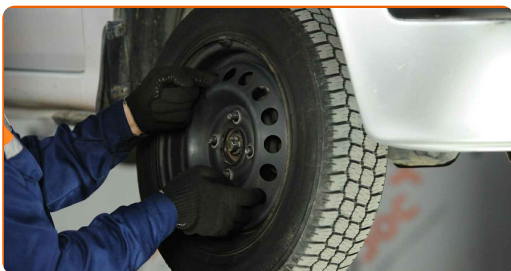
4 Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
Nissan Micra K11

5 Remove the wheel.

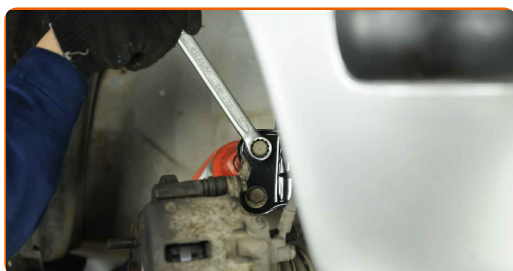


6 Take out the retainer clip and move the brake hose out of the bracket on the shock strut. Use pliers.



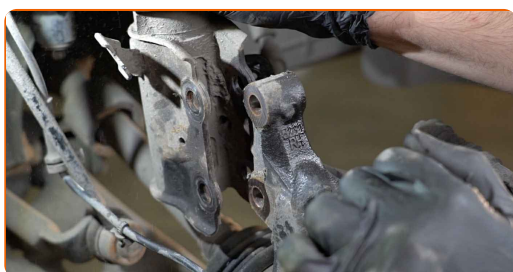
7 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

- 8** Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.



- 9** Remove the fastening bolts (2 pieces).

- 10** Disconnect the steering knuckle from the shock absorber strut.



- 11** Lower the car.



- 12** Open the bonnet.

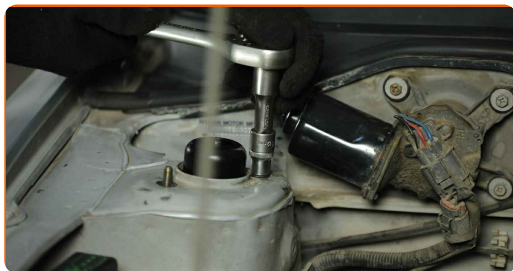


- 13** Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

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

15

Unscrew the upper fasteners of the shock strut (3 pieces). Use a drive socket #E12. Use a ratchet wrench.

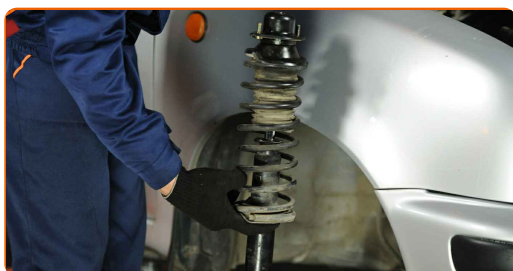


AUTODOC recommends:

- Important! Hold the suspension strut while unscrewing the fastening bolts.
Nissan Micra K11

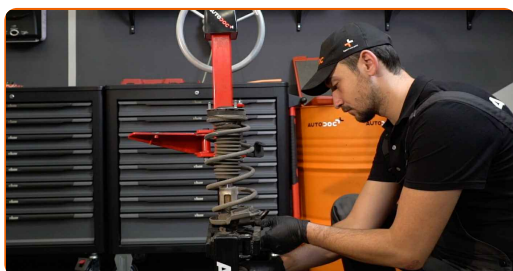
16

Remove the suspension strut.



17

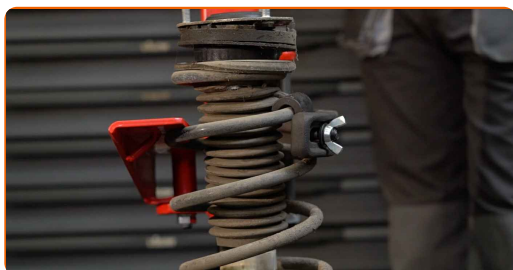
Set the shock absorber strut on the spring compressor tool.



Replacement: coil springs – Nissan Micra K11. Professionals recommend:

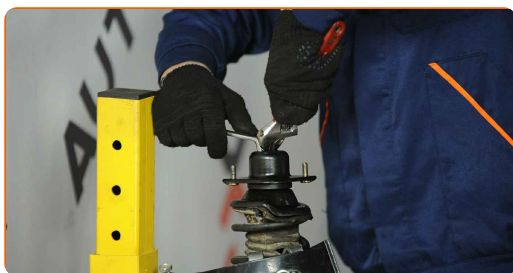
- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

18 Compress the spring.

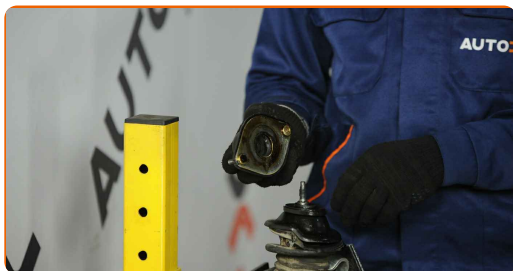


19 Clean the upper fastener of the suspension strut mount. Use a wire brush. Use WD-40 spray.

20 Unscrew the top fastening of the shock strut mount. Use a combination spanner #14. Use an adjustable wrench.



21 Remove the top strut mount.



22 Release the coil spring.

23 Remove the shock absorber dust cap and the bump stop.

24 Remove the spring.



AUTODOC recommends:

- Replacement: coil springs – Nissan Micra K11. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

25 Install the spring on the shock absorber.



26 Install the dust boot and bump stop on the shock absorber.

27 Compress the spring.

28 Install the upper strut mount and the strut mount bearing.



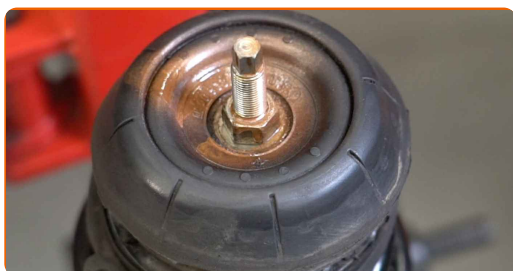
- 29** Tighten the upper fastener of the shock absorber strut mount. Use a combination spanner #14. Use an adjustable wrench. Use a torque wrench. Tighten it to 40 Nm torque.



Replacement: coil springs – Nissan Micra K11. Professionals recommend:

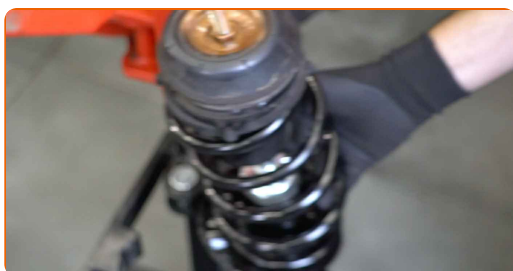
- Check to make sure the spring is positioned correctly. Avoid its misalignment.

- 30** Treat the shock strut rod. Use copper grease.

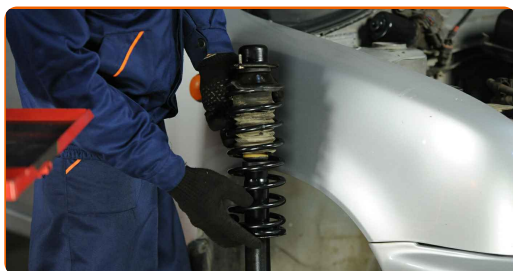


- 31** Decompress the spring.

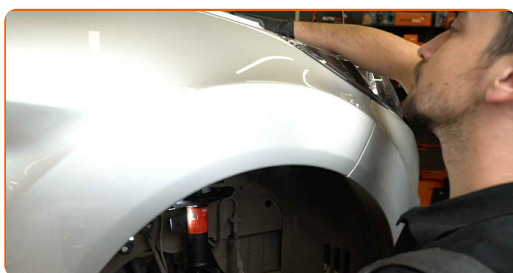
- 32** Remove the assembled shock strut.



33 Install the shock strut into the wheel arch.



34 Secure the upper fasteners of the shock strut (3 pieces).



AUTODOC recommends:

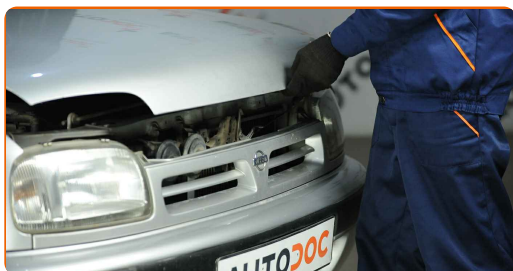
- Nissan Micra K11 – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

35 Tighten the upper fasteners of the shock strut (3 pieces). Use a drive socket #12. Use a torque wrench. Tighten it to 25 Nm torque.



36 Remove the fender protection cover.

37 Close the hood.



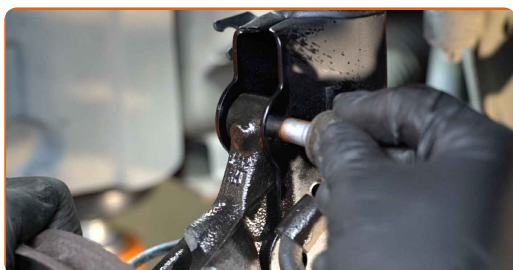
38 Raise the front of the car and secure on supports.



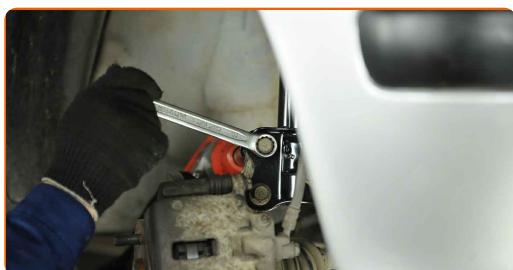
39 Treat the shock strut mounting seat on the steering knuckle. Use a wire brush. Use WD-40 spray.

40 Fix the shock absorber strut on the steering knuckle.

41 Install the fastening bolts (2 pieces).

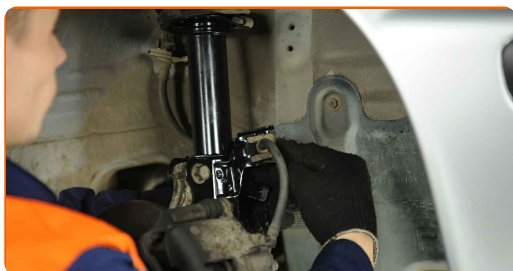


42 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 115 Nm torque.

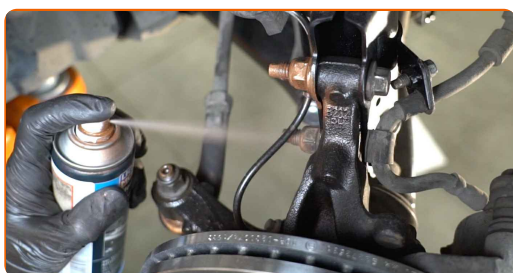


43 Fasten the brake hose on the strut.

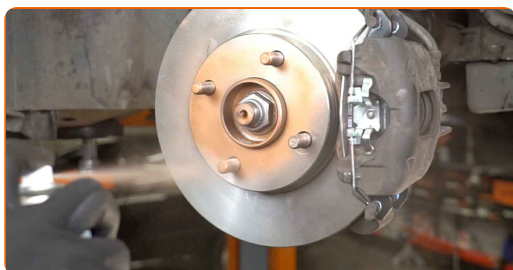
44 Attach the brake hose retainer clip. Use a rubber mallet.



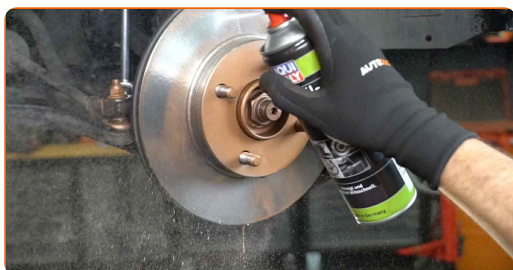
45 Treat the shock strut fasteners. Use copper grease.



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



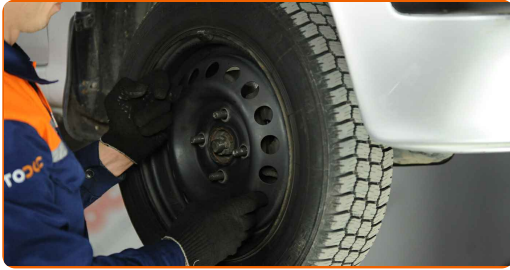
47 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: coil springs – Nissan Micra K11. After applying the spray, wait a few minutes.

48 Install the wheel.



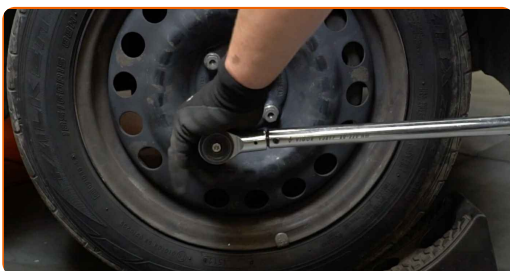
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Nissan Micra K11

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

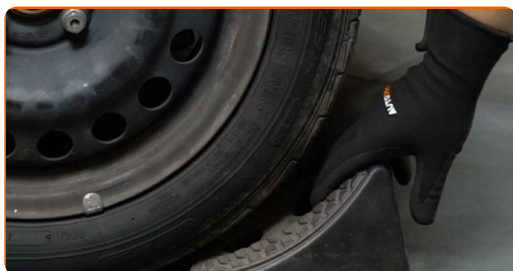


50 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #19. Use a torque wrench. Tighten it to 110 Nm torque.



51

Remove the jacks and chocks.



WELL DONE! 

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