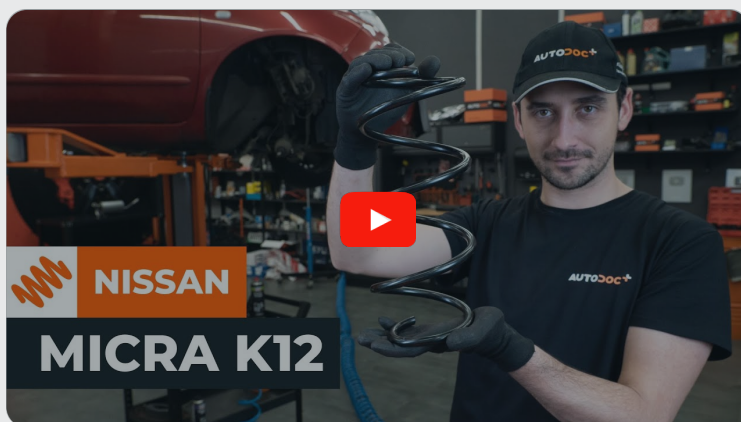




How to change front coil
springs on **Nissan Micra**
K12 – replacement guide

VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:
NISSAN MICRA III (K12) 1.2 16V, NISSAN MICRA III (K12) 1.6 SR 160

The steps may slightly vary depending on the car design.

**REPLACEMENT: COIL SPRINGS – NISSAN MICRA K12.
TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Brake cleaner
- Ceramic grease
- Torque wrench
- Combination spanner #17
- Drive socket # 13
- Drive socket # 17
- Drive socket # 18
- 18-mm strut nut socket
- HEX bit no.H6.
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Clip removal tool
- Phillips screwdriver
- Crow bar
- Hammer
- Hydraulic transmission jack
- Fender cover
- Wheel chock

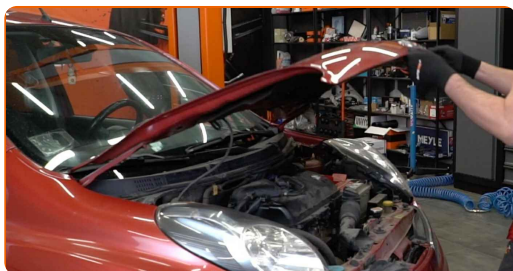
BUY TOOLS

Replacement: coil springs – Nissan Micra K12. AUTODOC experts recommend:

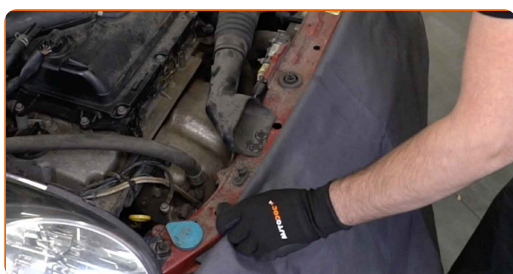
- Both coil springs of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the front suspension.
- Warning! Shut down the engine before starting any work – Nissan Micra K12.

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.



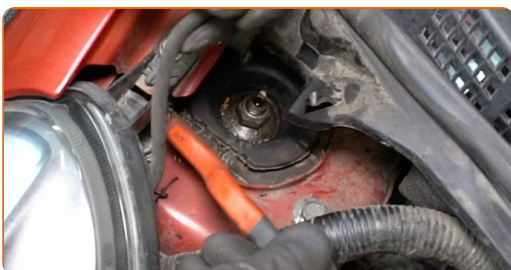
3 Unscrew the fasteners of the cowl grille. Use a clip removal tool. Use a Phillips screwdriver.



4 Raise the wiper plastic cowl grille.



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



6 Loosen the upper fasteners of the suspension strut. Use a drive socket #13. Use a ratchet wrench.



AUTODOC recommends:

- Don't unscrew it completely.

7 Secure the wheels with chocks.

8 Loosen the wheel bolts. Use wheel impact socket #17. Use a tap wrench.



9 Raise the car.



Replacement: coil springs – Nissan Micra K12. AUTODOC recommends:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

10 Unscrew the wheel bolts.



AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Nissan Micra K12

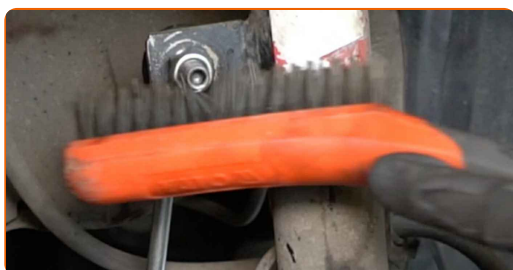
11

Remove the wheel.



12

Clean the fastener that connects the sway bar link to the suspension strut. Use a wire brush. Use WD-40 spray.

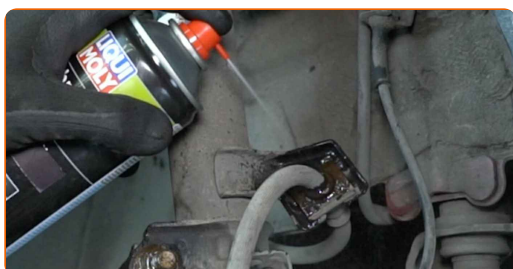


13

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

14

Clean the fastener that connects the brake hose bracket to the suspension strut. Use a wire brush. Use all-purpose cleaning spray.



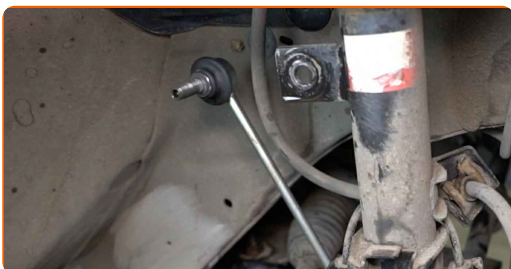
15

Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a ratchet wrench.



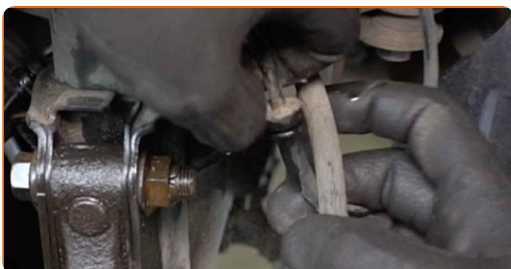
16

Disconnect the sway bar link from the suspension strut.



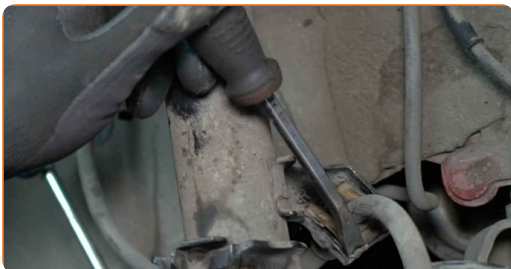
17

Disconnect the ABS sensor wiring.



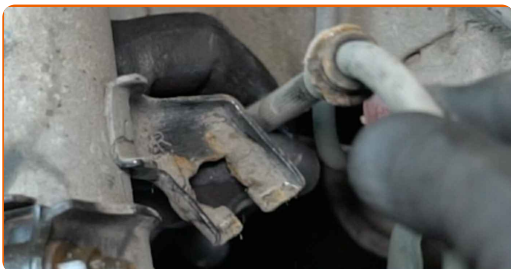
18

Remove the fastener attaching the brake hose to the shock strut. Use a crowbar. Use a hammer.



19

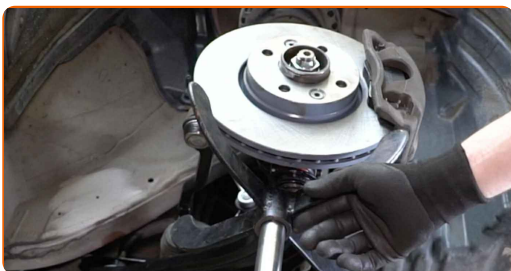
Detach the brake hose from the shock strut.



- 20 Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #18. Use a ratchet wrench.

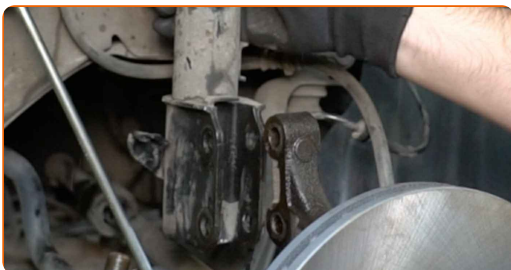


- 21 Support the steering knuckle. Use a hydraulic transmission jack.

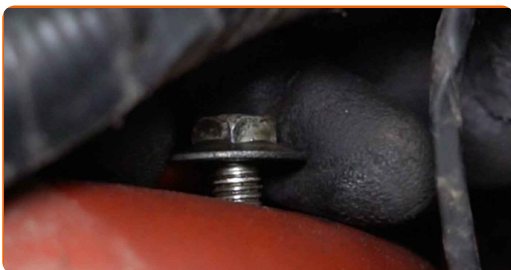


- 22 Remove the fastening bolts.

- 23 Disconnect the steering knuckle from the suspension strut.



- 24 Unscrew the upper fasteners of the shock strut.



AUTODOC recommends:

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

25

Remove the suspension strut.



26

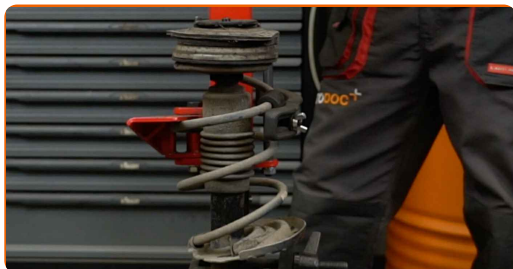
Set the suspension strut on the spring compressor tool.



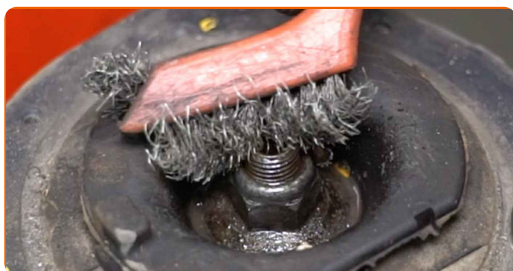
Replacement: coil springs – Nissan Micra K12. Professionals recommend:

- 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.

27 Compress the spring.



28 Clean the strut piston rod. Use a wire brush. Use WD-40 spray.



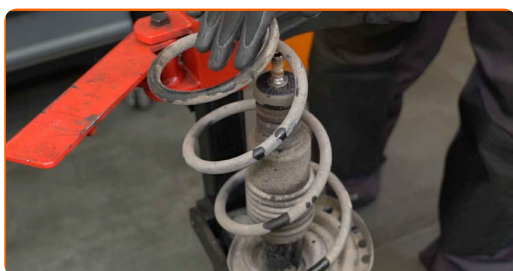
29 Unscrew the strut piston rod nut. Use a 18-mm strut nut socket. Use HEX No.H6. Use a ratchet wrench.



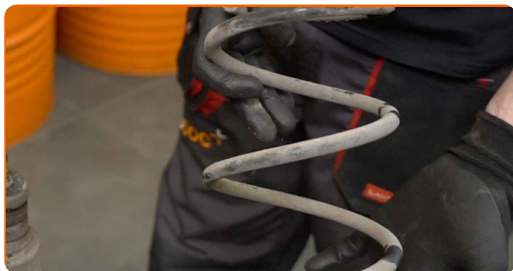
30 Remove the top strut mount.



31 Decompress the spring.



32 Remove the spring.



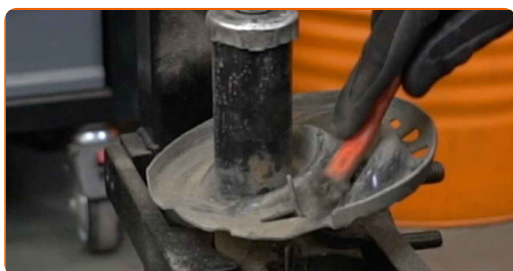
33 Remove the shock absorber dust boot and bump stop.



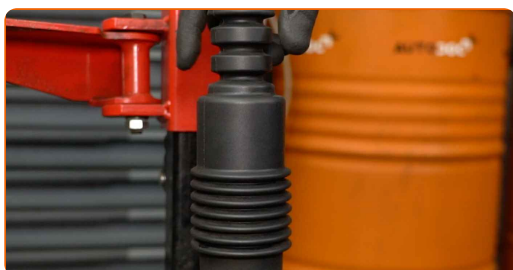
AUTODOC recommends:

- Replacement: coil springs – Nissan Micra K12. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

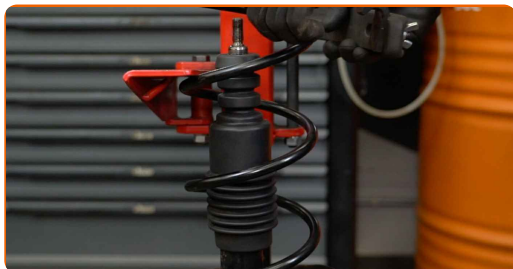
34 Clean the coil spring mounting seats. Use a wire brush. Use all-purpose cleaning spray.



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



36 Install the spring on the shock absorber.



37 Compress the spring.



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



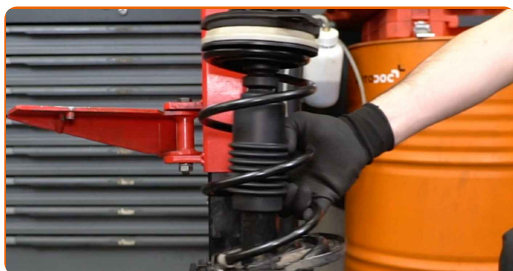
39 Tighten the nut of the suspension strut piston rod. Use a 18-mm strut nut socket. Use HEX No.H6. Use a torque wrench. Tighten it to 68 Nm torque.



40 Decompress the spring.



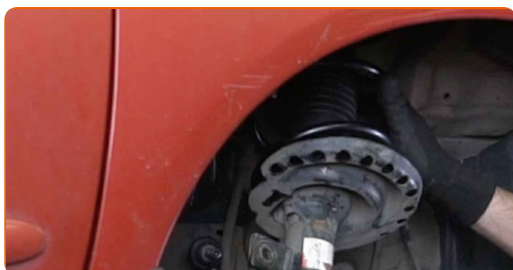
41 Remove the assembled shock strut.



42 Clean the mounting seats of the shock strut. Use a wire brush. Use all-purpose cleaning spray.



43 Install the suspension strut into the wheel arch.



44 Secure the upper fasteners of the shock strut.

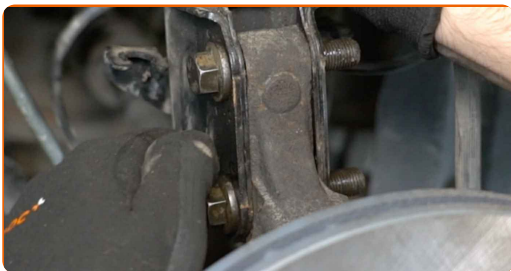
AUTODOC recommends:

- Do not tighten it.

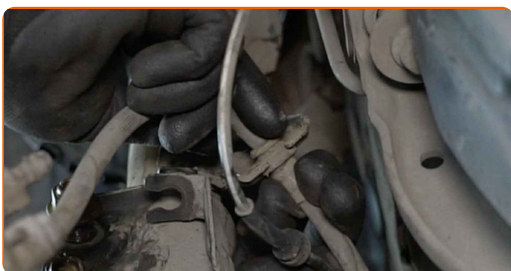
45 Fasten the suspension strut on the steering knuckle.



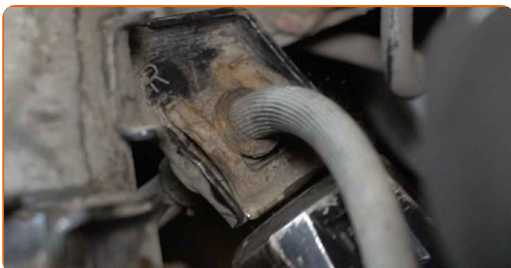
46 Install the fastening bolts.



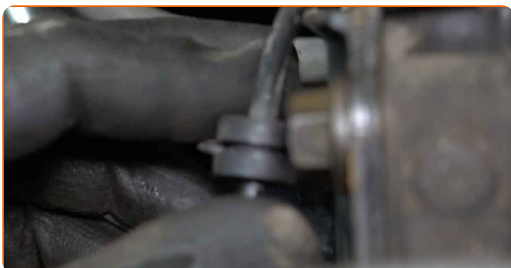
47 Fasten the brake hose on the strut.



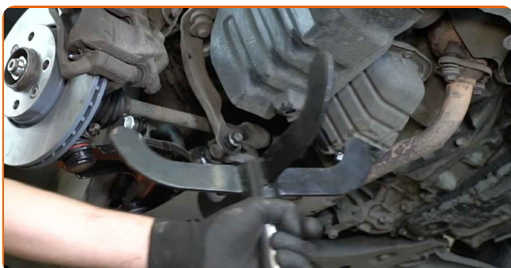
48 Install the brake hose retaining clip. Use a hammer.



49 Connect the ABS sensor wiring.



50 Remove the support from under the steering knuckle.

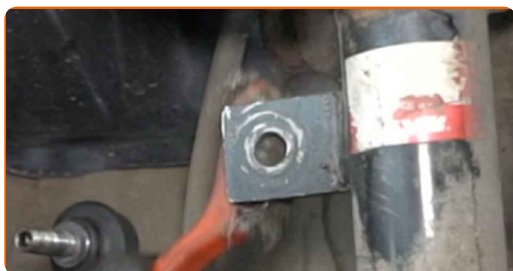


Replacement: coil springs – Nissan Micra K12. AUTODOC recommends:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

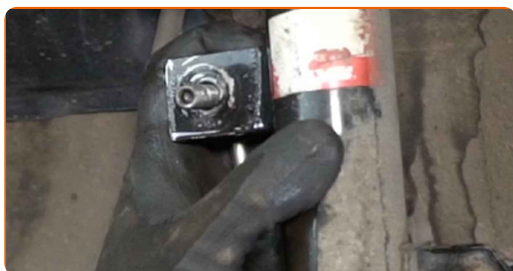
51

Clean the fastener that connects the sway bar link to the suspension strut. Use a wire brush. Use all-purpose cleaning spray.



52

Install the stabiliser link.

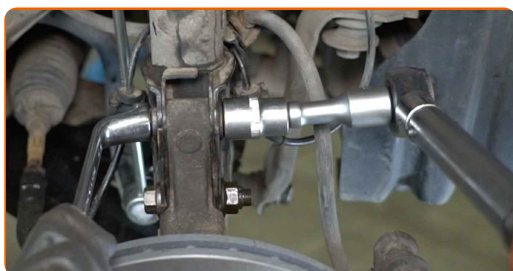


53

Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a torque wrench. Tighten it to 44 Nm torque.



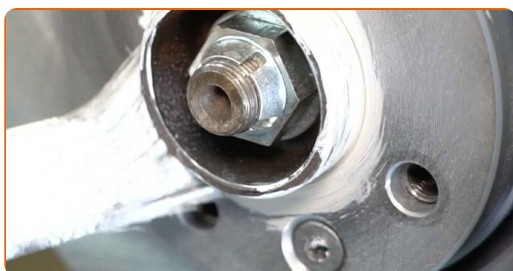
- 54 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #18. Use a torque wrench. Tighten it to 116 Nm torque.



- 55 Clean the wheel rim mounting seat. Use a wire brush.



- 56 Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



- 57 Clean the brake disk surface. Use a brake cleaner.

- 58 Install the wheel.



Replacement: coil springs – Nissan Micra K12. Tip:

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

59

Screw in the wheel bolts. Use wheel impact socket #17. Use a ratchet wrench.



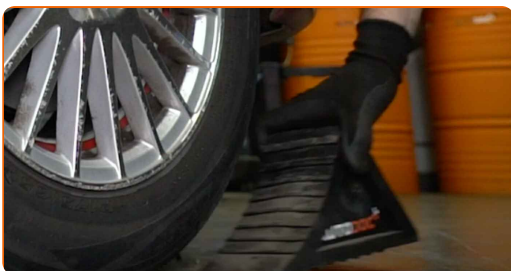
60

Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.

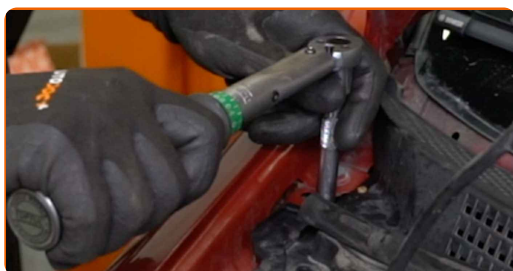


61

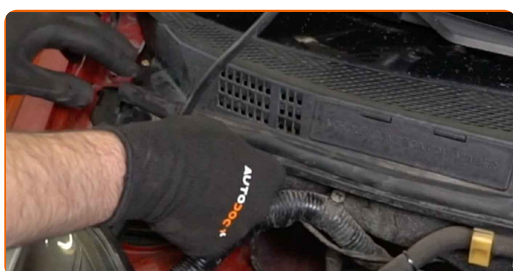
Remove the jacks and chocks.



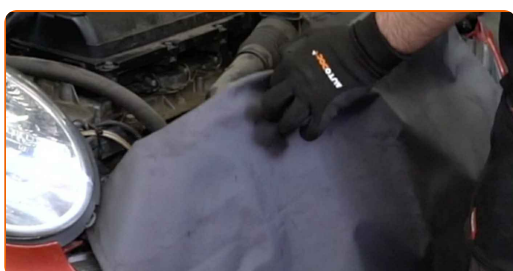
62 Tighten the upper fasteners of the shock strut. Use a drive socket #13. Use a torque wrench. Tighten it to 17 Nm torque.



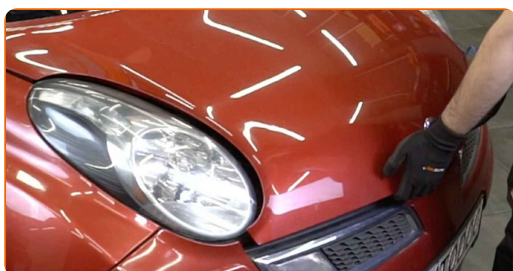
63 Install and secure the cowl grille.



64 Remove the fender protection cover.



65 Close the bonnet.



WELL DONE! 

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