



How to change front
suspension strut on
Nissan Micra K11 –
replacement guide

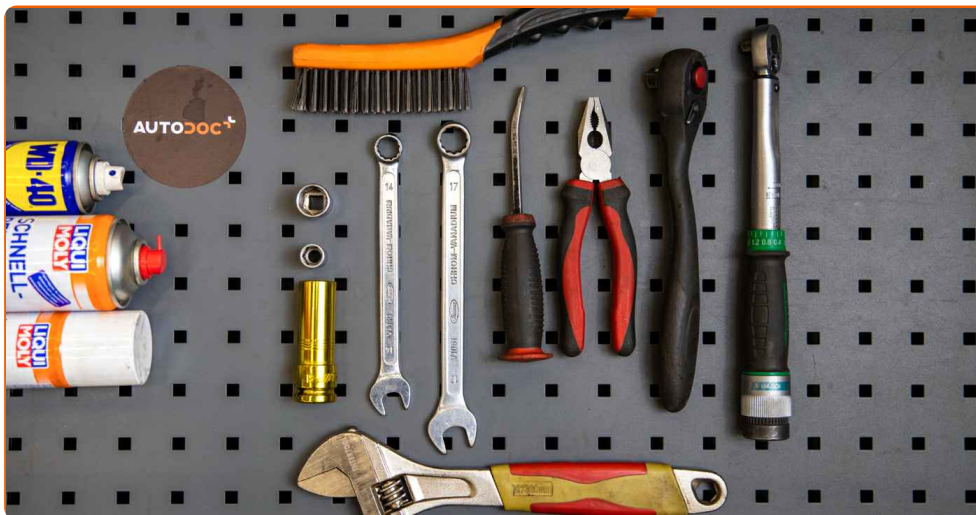
VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:
NISSAN MICRA II (K11) 1.0 i 16V, NISSAN MICRA II (K11) 1.5 D

The steps may slightly vary depending on the car design.

REPLACEMENT: SUSPENSION STRUT – NISSAN MICRA K11. TOOLS YOU MIGHT 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
- Crow bar
- Fender cover
- Wheel chock

BUY TOOLS

Replacement: suspension strut – Nissan Micra K11. 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 – Nissan Micra K11 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Secure the wheels with chocks.



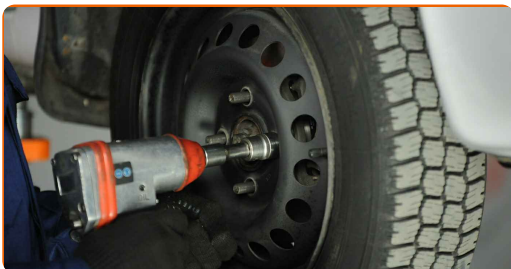
2 Loosen the wheel mounting bolts. Use wheel impact socket #19.



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



4 Unscrew the wheel bolts.



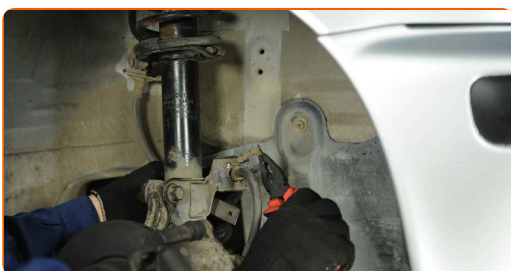
AUTODOC recommends:

- 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. Use a crowbar.



- 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.

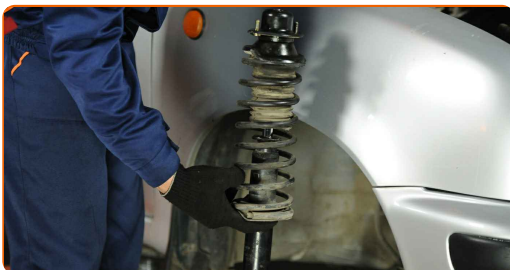
15 Unscrew the upper fasteners of the shock strut (3 pieces). Use a drive socket #E12. Use a ratchet wrench.



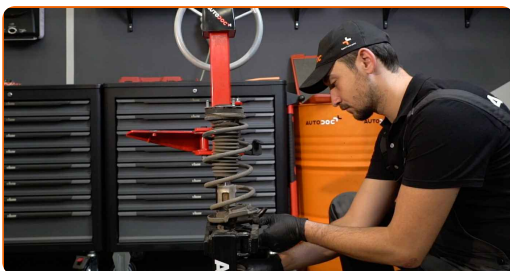
AUTODOC recommends:

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

16 Remove the suspension strut.



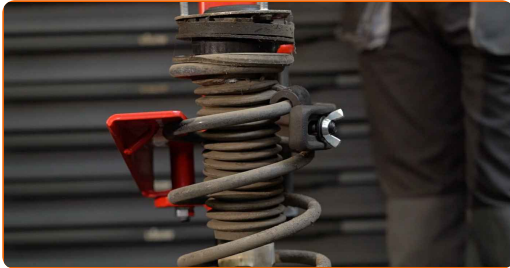
17 Set the shock absorber strut on the spring compressor tool.



Replacement: suspension strut – Nissan Micra K11. AUTODOC experts recommend:

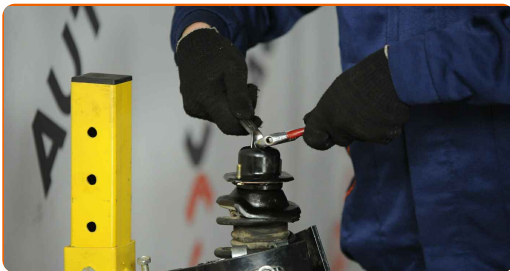
- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

18 Compress the spring.

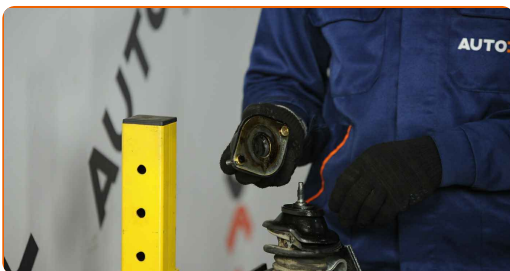


19 Clean the upper fastener of the suspension strut mount. Use a wire brush. Use WD-40 spray.

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 spring.



24

Remove the shock absorber dust cap and the bump stop.

AUTODOC recommends:

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

25

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

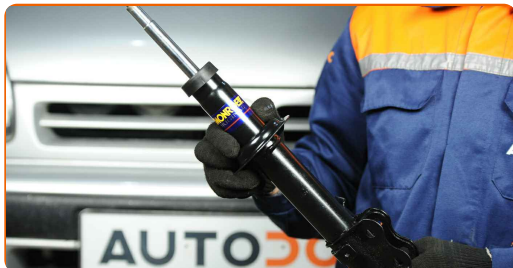


Replacement: suspension strut – Nissan Micra K11. Tip from AUTODOC:

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

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

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



28 Install the spring on the shock absorber.



29 Compress the spring.

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



31 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.

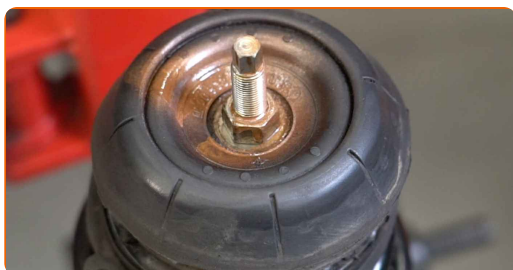


Replacement: suspension strut – Nissan Micra K11. Tip from AUTODOC experts:

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

32

Treat the shock strut rod. Use copper grease.

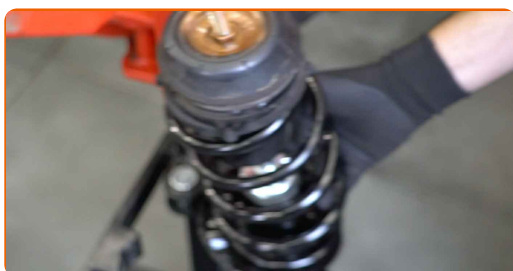


33

Decompress the spring.

34

Remove the assembled shock strut.



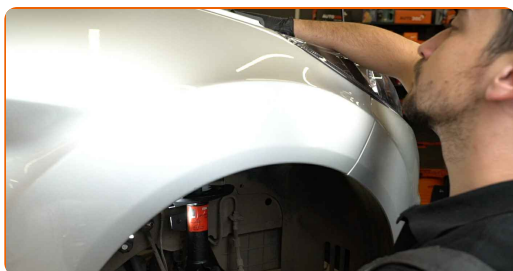
35

Install the shock strut into the wheel arch.



36

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



- 37 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.



- 38 Remove the fender protection cover.

- 39 Close the hood.



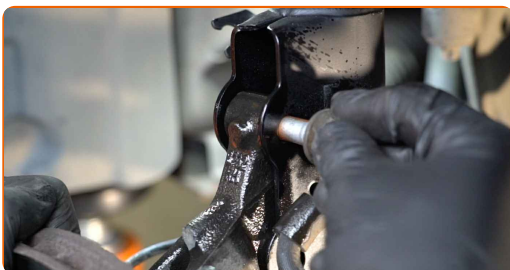
- 40 Raise the front of the car and secure on supports.



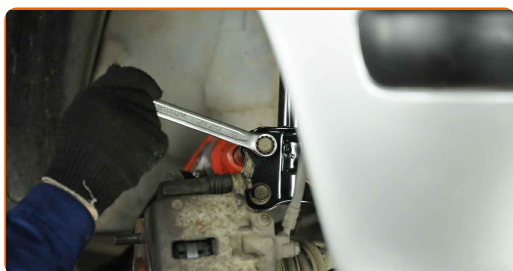
- 41 Treat the shock strut mounting seat on the steering knuckle. Use a wire brush. Use WD-40 spray.

- 42 Fix the shock absorber strut on the steering knuckle.

- 43 Install the fastening bolts (2 pieces).

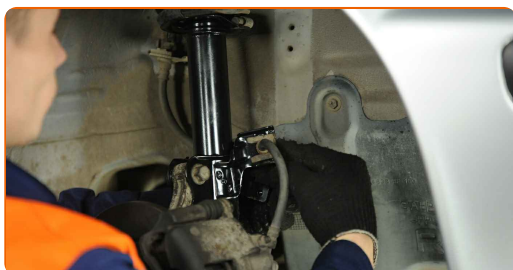


- 44 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 115 Nm torque.

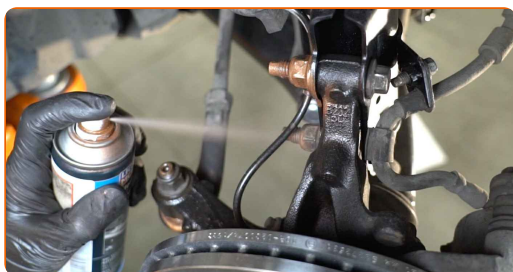


- 45 Fasten the brake hose on the strut.

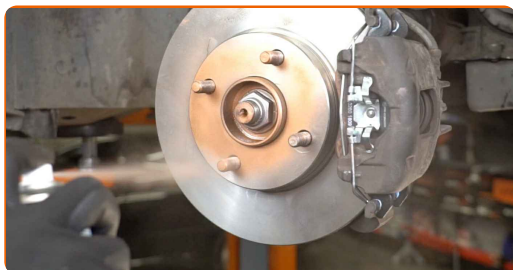
- 46 Attach the brake hose retainer clip.



- 47 Treat the shock strut fasteners. Use copper grease.



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



49

Clean the brake disk surface. Use a brake cleaner.

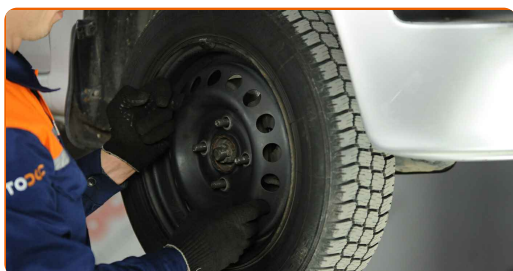


AUTODOC recommends:

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

50

Install the wheel.



AUTODOC recommends:

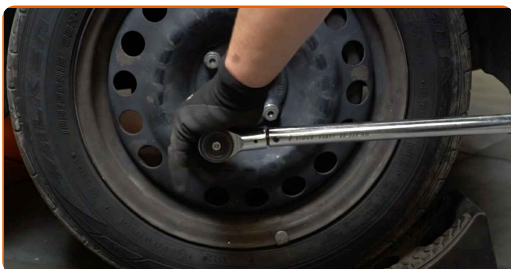
- Important! Hold the wheel while screwing in the fastening bolts. Nissan Micra K11

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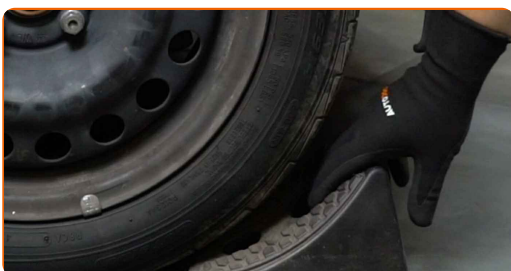
Screw in the wheel bolts. Use wheel impact socket #19.



- 52** 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.



- 53** Remove the jacks and chocks.



WELL DONE! 

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