



How to change rear coil
springs on **Nissan X Trail**
T30 – replacement guide

VIDEO TUTORIAL

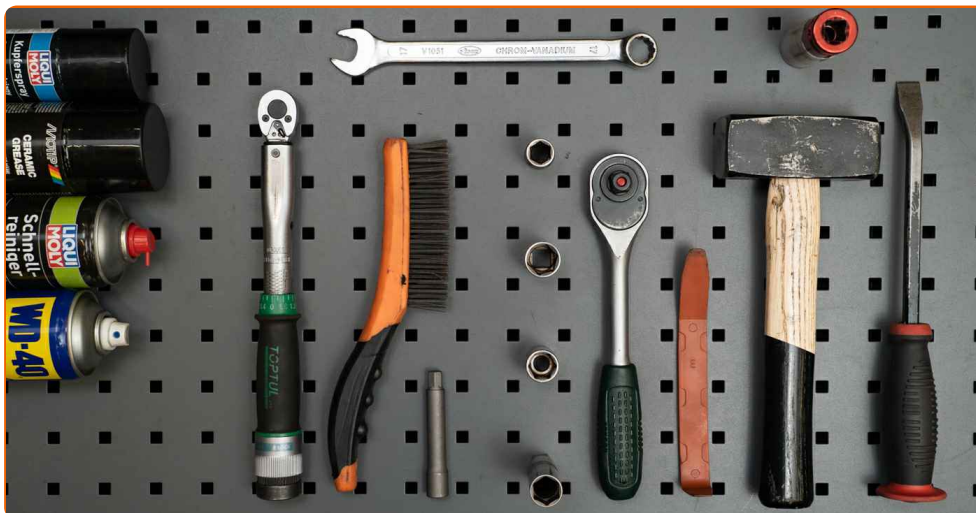
** Important!**

This replacement procedure can be used for:

NISSAN X-Trail (T30) 2.0 4x4, NISSAN X-Trail (T30) 2.2 Di 4x4, NISSAN X-Trail (T30) 2.2 dCi 4x4, NISSAN X-Trail (T30) 2.0, NISSAN X-Trail (T30) 2.2 dCi, NISSAN X-Trail (T30) 2.5 4x4, NISSAN X-Trail (T30) 2.2 DCi, NISSAN X-Trail (T30) 2.2 DCi FWD

The steps may slightly vary depending on the car design.

**REPLACEMENT: COIL SPRINGS – NISSAN X TRAIL T30.
LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Ceramic grease
- Copper grease
- Torque wrench
- Combination spanner #17
- Drive socket # 14
- Drive socket # 17
- Drive socket # 19
- 17-mm strut nut socket
- D10-mm strut nut socket
- Wheel impact socket #21
- Ratchet wrench
- Hammer
- Plastic trim tool
- Hydraulic strut spring compressor
- Crow bar
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

Replacement: coil springs – Nissan X Trail T30. Tip from AUTODOC experts:

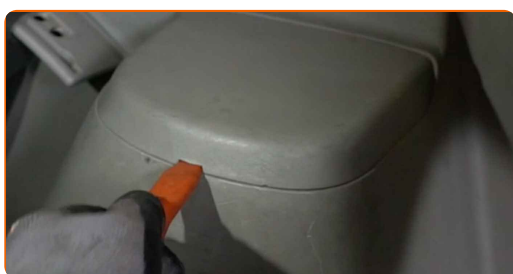
- Both coil springs of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the rear suspension.
- Please note: all work on the car – Nissan X Trail T30 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

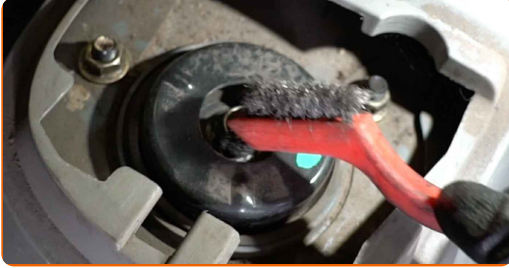
- 1 Open the boot lid.



- 2 Remove the cover of the boot side lining. Use a plastic trim tool.



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



4 Loosen the suspension strut rod nut. Don't unscrew it completely. Use a drive socket #17. Use a ratchet wrench.



5 Loosen the upper fasteners of the suspension strut. Use a drive socket #14. Use a ratchet wrench.



Replacement: coil springs – Nissan X Trail T30. Professionals recommend:

- Do not completely unscrew the upper fasteners as they may hold also other suspension components.

6 Secure the wheels with chocks.

7

Loosen the wheel mounting bolts. Use wheel impact socket #21.



8

Raise the car.

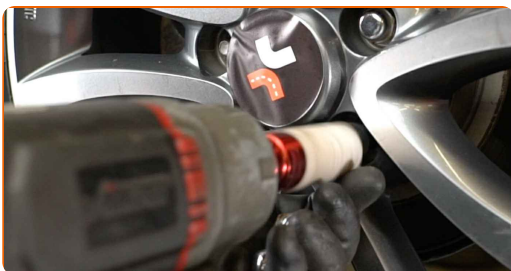


Replacement: coil springs – Nissan X Trail T30. Tip from AUTODOC:

- 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.

9

Unscrew the wheel bolts.

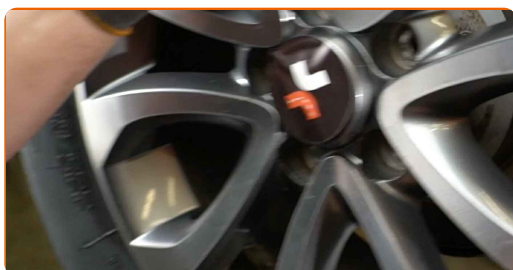


AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
Nissan X Trail T30

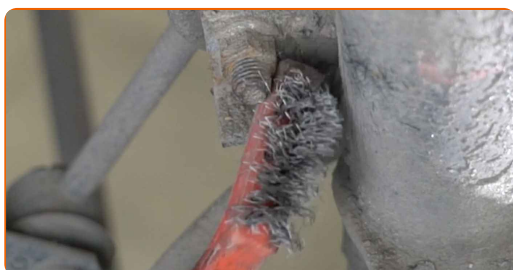
10

Remove the wheel.



11

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



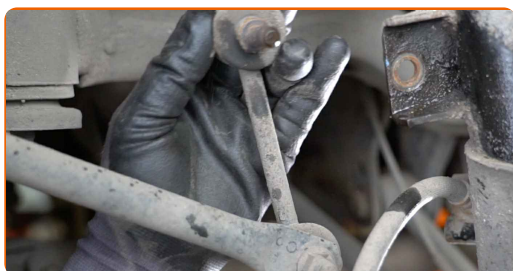
12

Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #14. Use a ratchet wrench.



13

Remove the stabilizer rod.



14

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



15

Detach the brake hose from the shock strut.



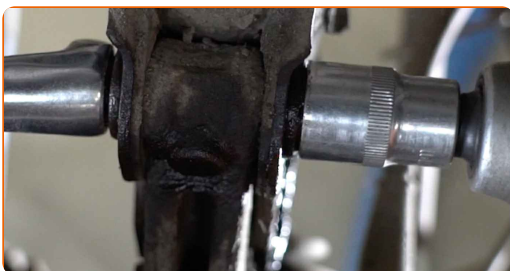
16

Clean the fastener that connects the suspension strut to the stub axle. Use a wire brush. Use WD-40 spray.



17

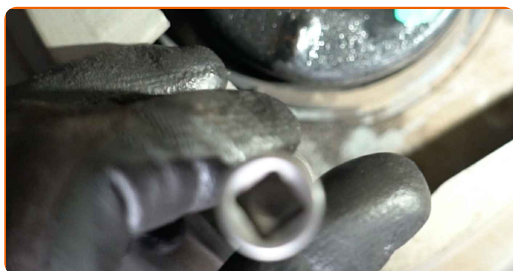
Unscrew the fastener that connects the suspension strut to the rear knuckle. Use a combination spanner #17. Use a drive socket #19. Use a ratchet wrench.



18 Support the rear knuckle. Use a hydraulic transmission jack.



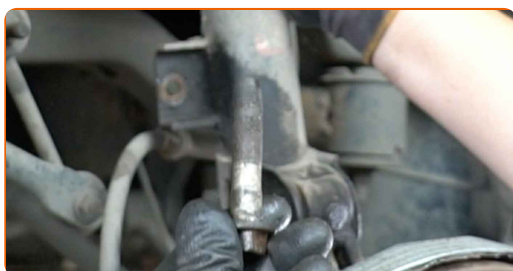
19 Unscrew the upper fasteners of the shock strut.



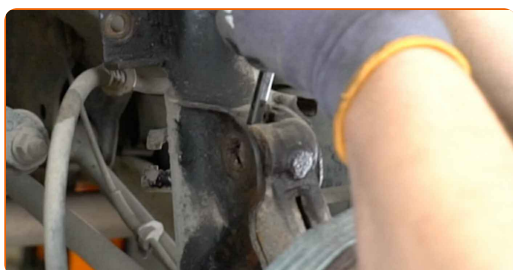
AUTODOC recommends:

- Nissan X Trail T30 – To avoid injury, hold the shock absorber while unscrewing the fastening bolts.

20 Remove the fastening bolts.

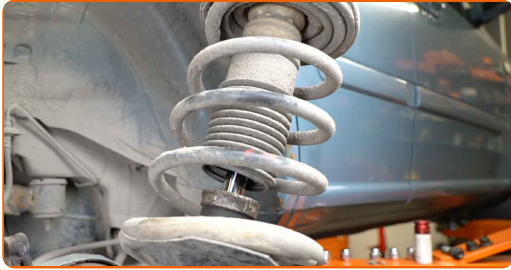


21 Detach the shock absorber from the rear knuckle. Use a crowbar.



22

Remove the suspension strut.



23

Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



24

Set the suspension strut on the spring compressor tool.

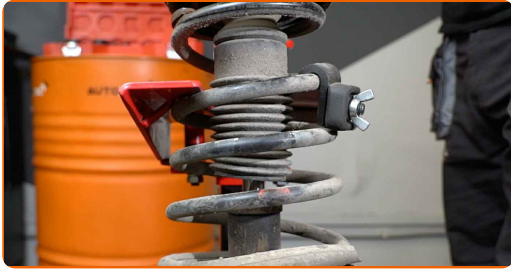


AUTODOC recommends:

- 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.

25

Compress the spring.



26

Remove the strut piston rod nut. Use a drive socket #17. Use a ratchet wrench.



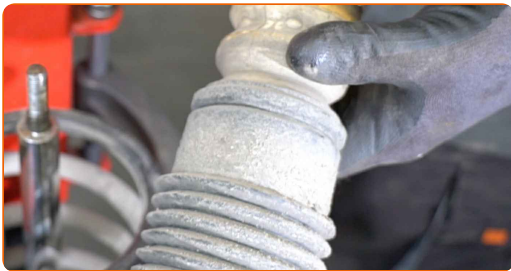
27

Remove the top strut mount.



28

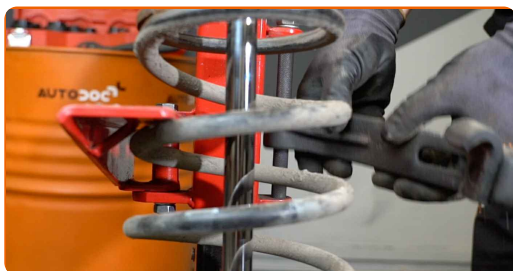
Remove the shock absorber dust cap and the bump stop.



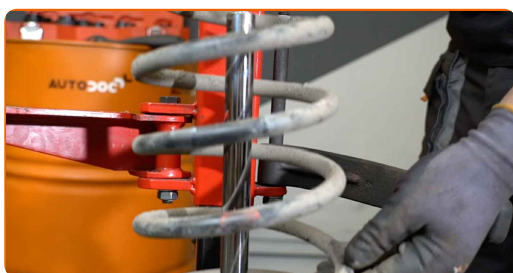
AUTODOC recommends:

- Replacement: coil springs – Nissan X Trail T30. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

29 Release the coil spring.



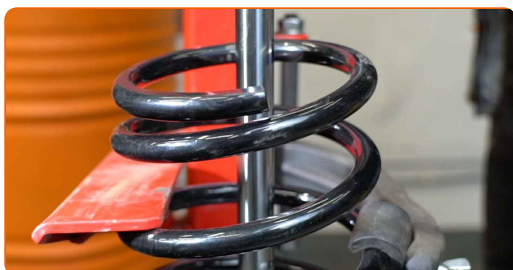
30 Remove the spring.



31 Install the spring on the shock absorber.



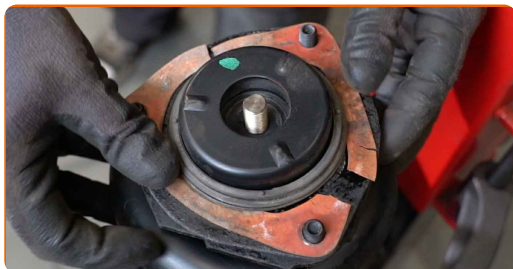
32 Compress the spring.



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



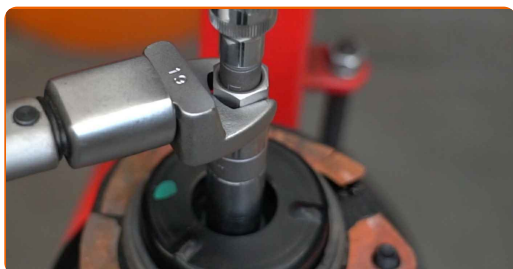
34 Install the upper strut mount and the strut mount bearing.



Replacement: coil springs – Nissan X Trail T30. AUTODOC recommends:

- Make sure that the suspension strut is installed in the correct position, according to the markings.

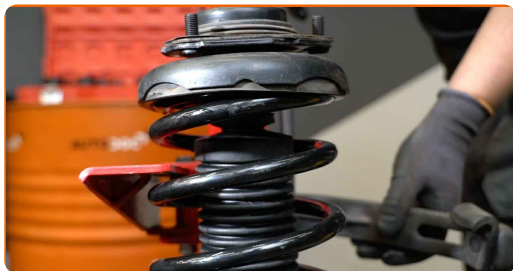
35 Tighten the shock strut piston rod nut. Use a 17-mm strut nut socket. Use a D10-mm strut nut socket. Use a torque wrench. Tighten it to 60 nm torque.



AUTODOC recommends:

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

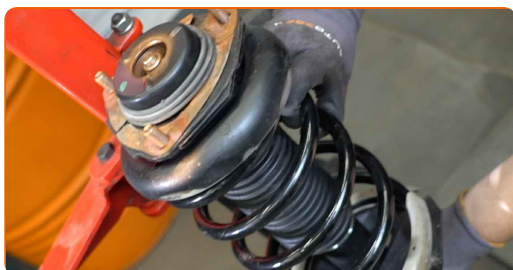
36 Decompress the spring.



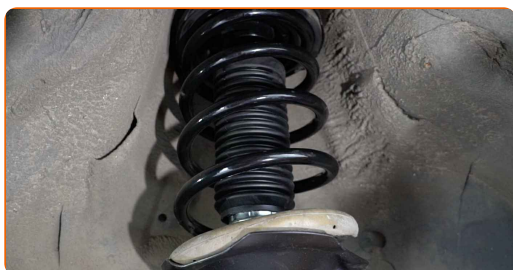
37 Treat the shock strut rod. Use copper grease.



38 Remove the assembled shock strut.



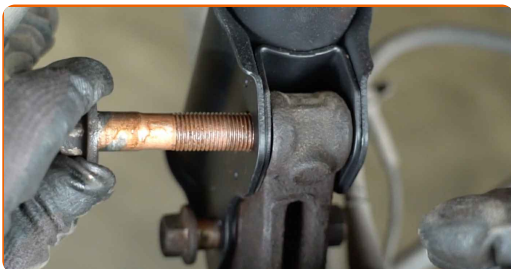
39 Install the shock strut into the wheel arch.



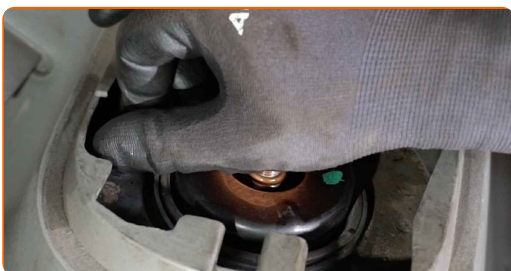
40 Attach the shock absorber to the rear knuckle.



41 Install the fastening bolts.



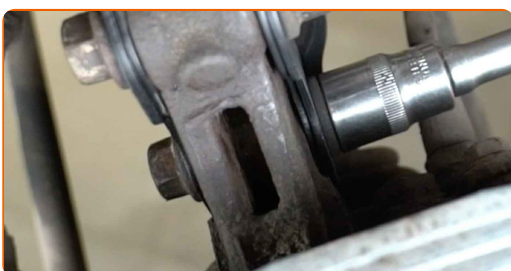
42 Secure the upper fasteners of the shock strut. Do not tighten it. Use a drive socket #14. Use a ratchet wrench.



AUTODOC recommends:

- Nissan X Trail T30 – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

43 Tighten the fastener that connects the suspension strut to the rear knuckle. Use a combination spanner #17. Use a drive socket #19. Use a torque wrench. Tighten it to 140 Nm torque.



44 Attach the brake hose to the suspension strut.



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



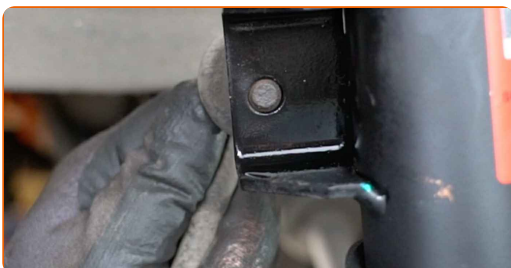
46 Remove the support from under the rear knuckle.



AUTODOC recommends:

- Replacement: coil springs – Nissan X Trail T30. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

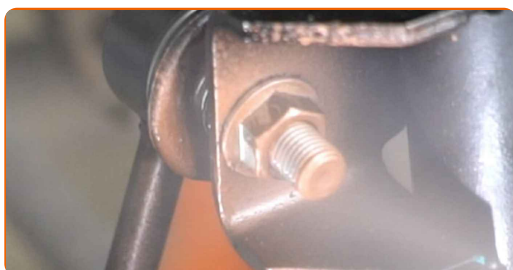
47 Install the transverse stabilizer link.



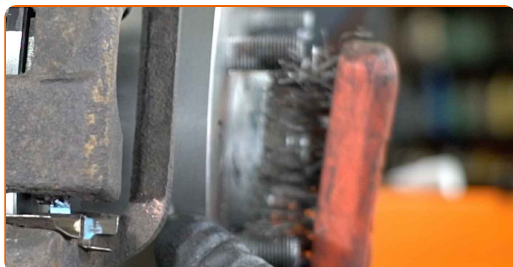
- 48 Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #14. Use a torque wrench. Tighten it to 42 Nm torque.



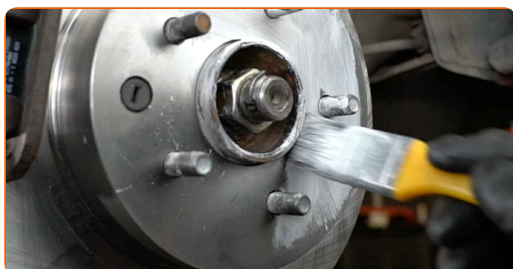
- 49 Treat the fastener that connects the sway bar link to the suspension strut. Treat the shock strut fasteners. Use copper grease.



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



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



52

Clean the brake disk surface. Use a brake cleaner.

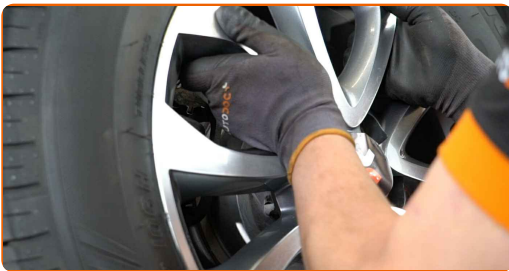


AUTODOC recommends:

- Replacement: coil springs – Nissan X Trail T30. After applying the spray, wait a few minutes.

53

Install the wheel.



AUTODOC recommends:

- Nissan X Trail T30 – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

54

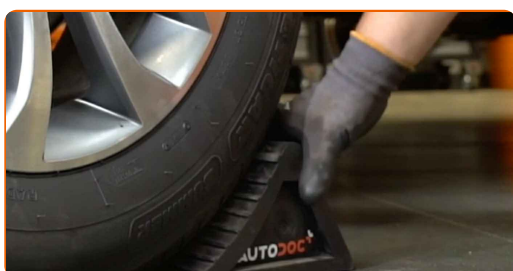
Screw in the wheel bolts. Use wheel impact socket #21.



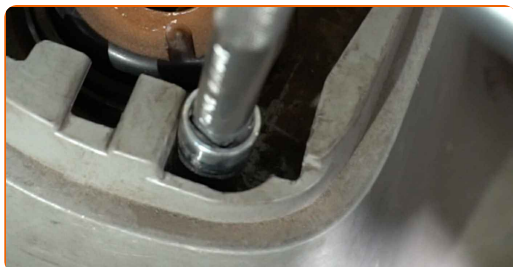
- 55** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #21. Use a torque wrench. Tighten it to 118 Nm torque.



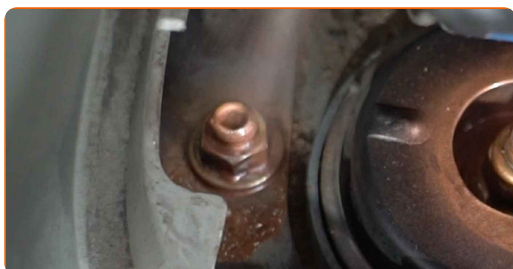
- 56** Remove the jacks and chocks.



- 57** Tighten the upper fasteners of the shock strut. Use a drive socket #14. Use a torque wrench. Tighten it to 45 Nm torque.



- 58** Treat the shock strut fasteners. Use copper grease.



59

Install the cover of the boot side lining.



60

Close the lid of the luggage compartment.



WELL DONE! 

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