



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

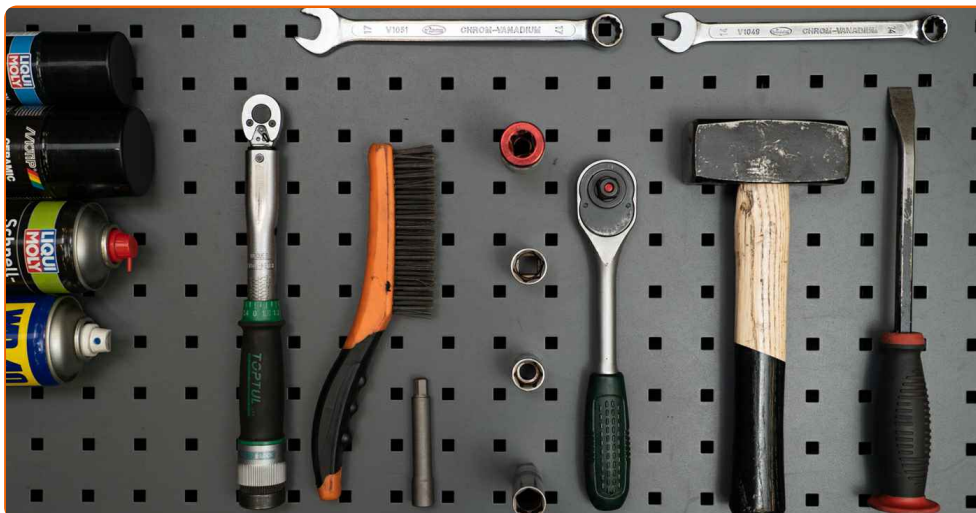
VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:
NISSAN X-Trail (T30) 2.0 4x4, NISSAN X-Trail (T30) 2.5 4x4

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 #14
- Combination spanner #17
- Drive socket # 17
- Drive socket # 19
- 17-mm strut nut socket
- D10-mm strut nut socket
- Wheel impact socket #21
- Ratchet wrench
- Hammer
- Hydraulic strut spring compressor
- Crow bar
- Hydraulic transmission jack
- Fender cover
- Wheel chock

BUY TOOLS

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

- 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 X Trail T30 – should be done with the engine switched off.

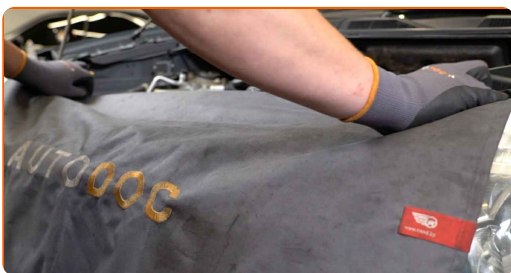
CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

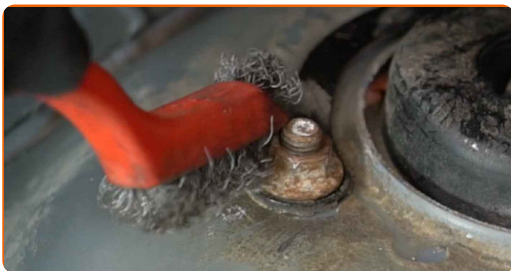
Open the bonnet.

**2**

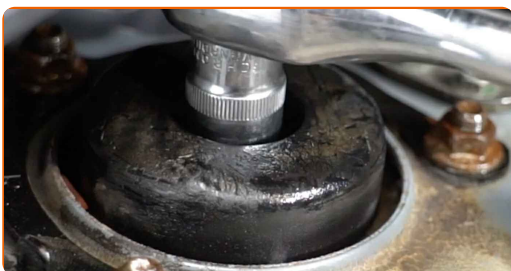
Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



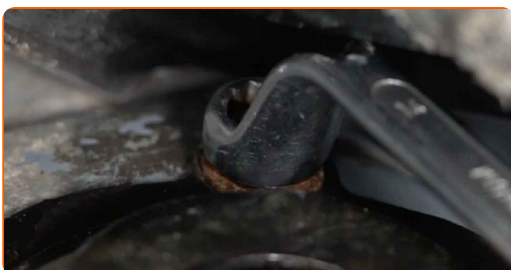
3 Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.



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 combination spanner #14.



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

- 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.

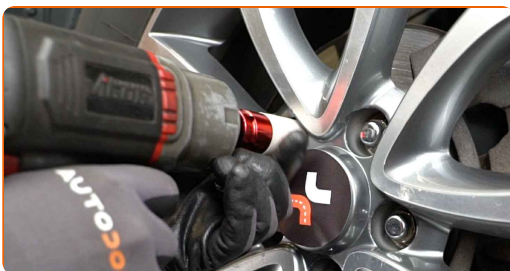


Replacement: coil springs – Nissan X Trail T30. Tip from AUTODOC:

- 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.



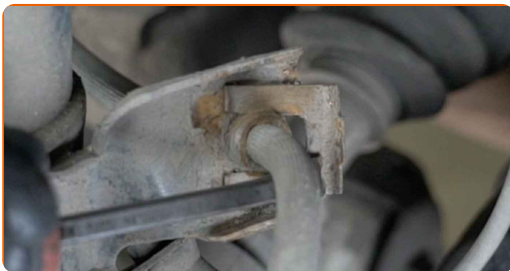
AUTODOC recommends:

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

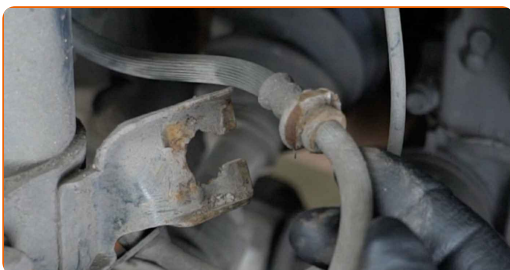
10 Remove the wheel.



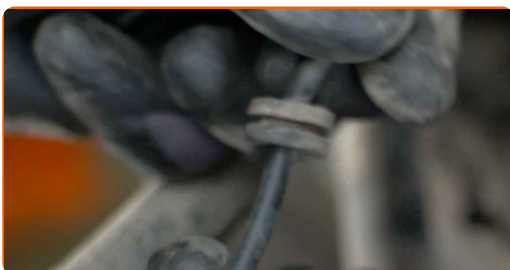
11 Remove the fastener attaching the brake hose to the shock strut. Use a crowbar. Use a hammer.



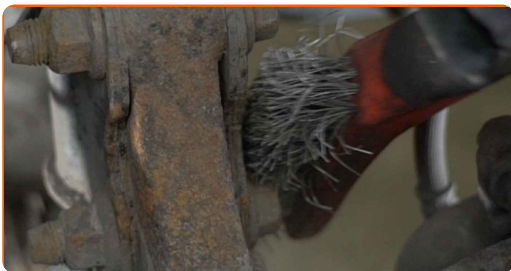
12 Detach the brake hose from the shock strut.



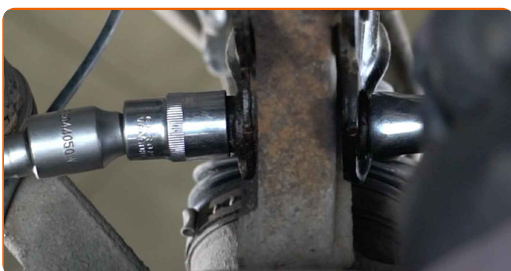
13 Disconnect the ABS sensor wiring.



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



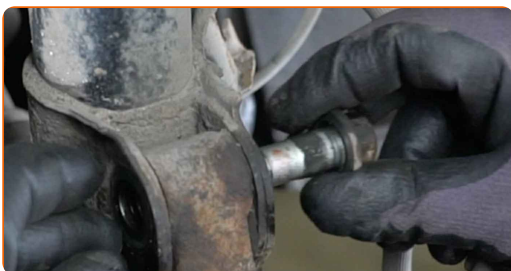
15 Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #19. Use a ratchet wrench.



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



17 Remove the fastening bolts.



18 Disconnect the steering knuckle from the shock absorber strut. Use a crowbar.



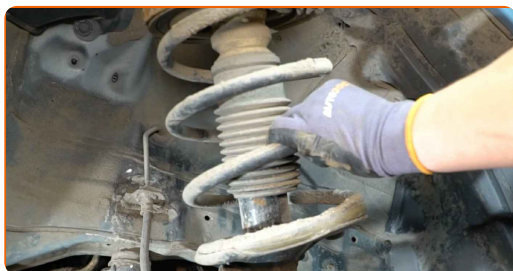
19 Unscrew the upper fasteners of the shock strut.



AUTODOC recommends:

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

20 Remove the suspension strut.



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

22

Set the suspension strut on the spring compressor tool.

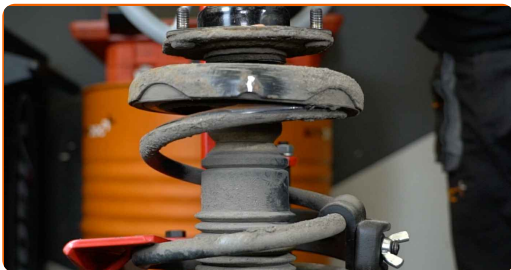


Replacement: coil springs – Nissan X Trail T30. Tip:

- 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.

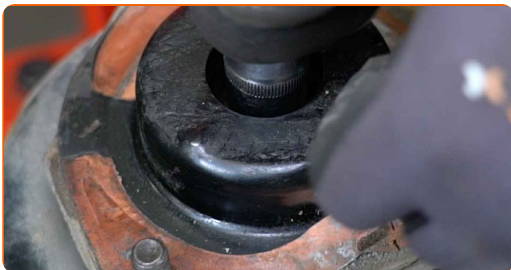
23

Compress the spring.



24

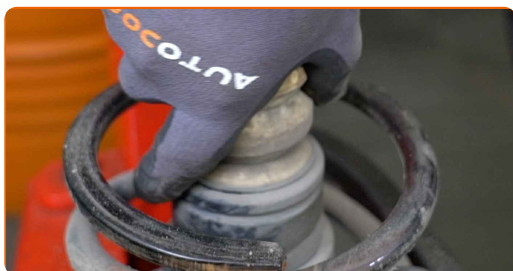
Remove the strut piston rod nut. Use a drive socket #17. Use a ratchet wrench.



25 Remove the top strut mount.



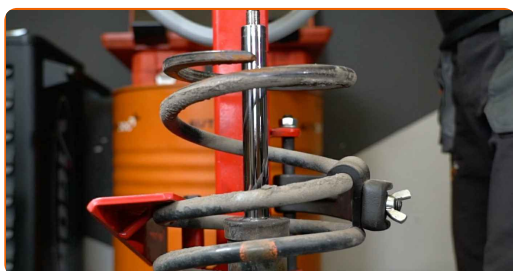
26 Remove the shock absorber dust cap and the bump stop.



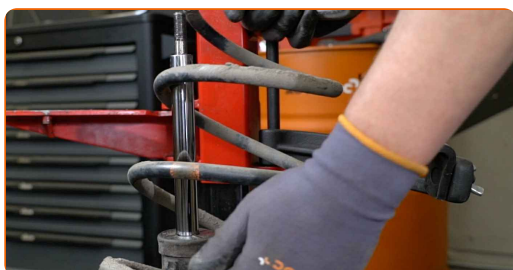
AUTODOC recommends:

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

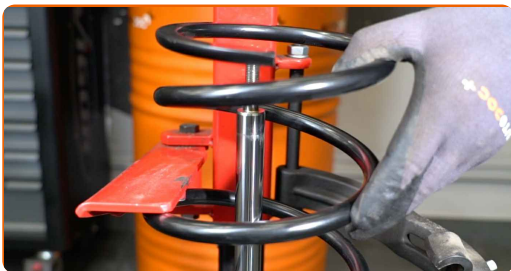
27 Release the coil spring.



28 Remove the spring.



29 Install the spring on the shock absorber.



30 Compress the spring.



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



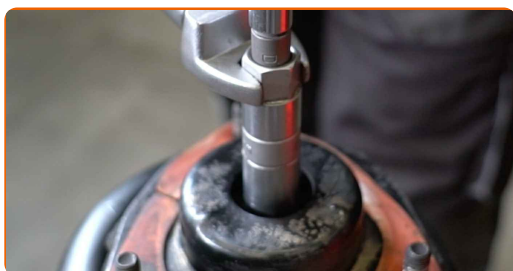
32 Install the upper strut mount and the strut mount bearing.



AUTODOC recommends:

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

- 33** 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.



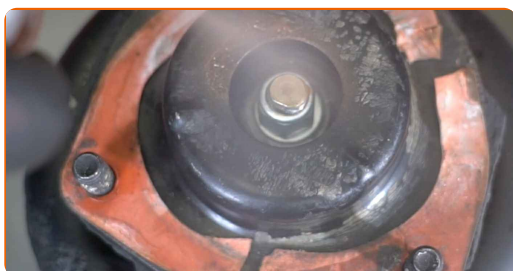
Replacement: coil springs – Nissan X Trail T30. Professionals recommend:

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

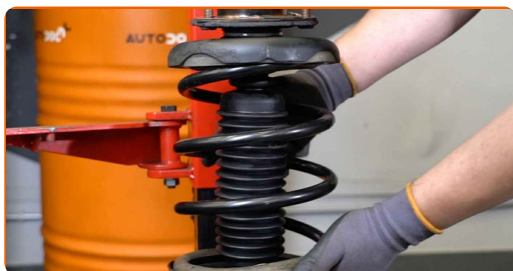
- 34** Decompress the spring.



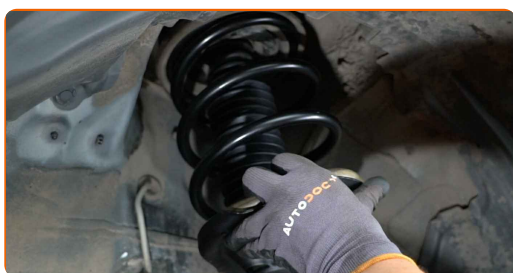
- 35** Treat the shock strut rod. Use copper grease.



36 Remove the assembled shock strut.



37 Install the shock strut into the wheel arch.

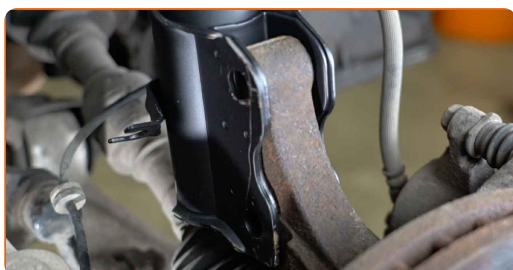


38 Secure the upper fasteners of the shock strut. Use a combination spanner #14. Do not tighten it.

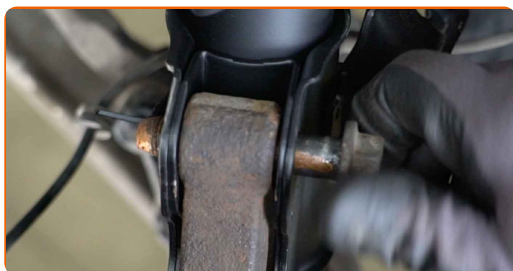
AUTODOC recommends:

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

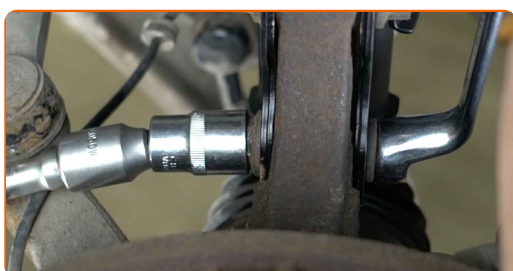
39 Fix the shock absorber strut on the steering knuckle.



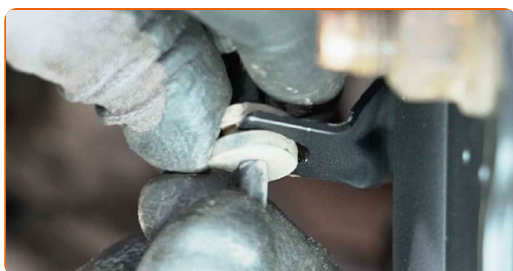
40 Install the fastening bolts.



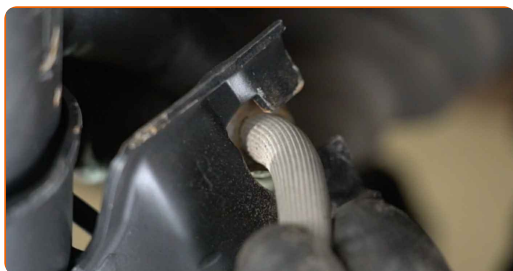
41 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #19. Use a torque wrench. Tighten it to 140 Nm torque.



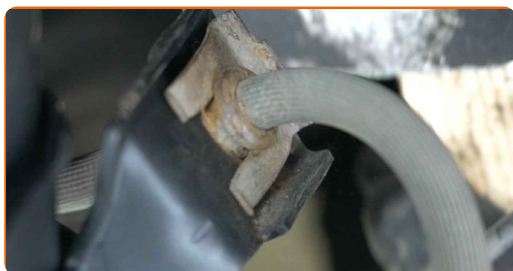
42 Connect the ABS sensor wiring.



43 Attach the brake hose to the suspension strut.

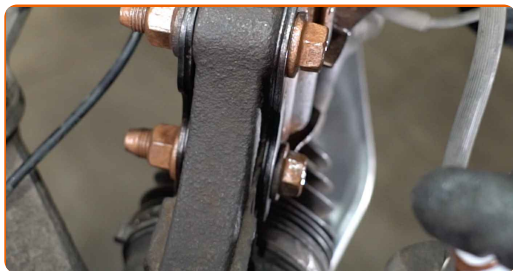


44 Install the brake hose retaining clip. Use a hammer.



45

Treat the fastener that connects the suspension strut to the steering knuckle. Use copper grease.



46

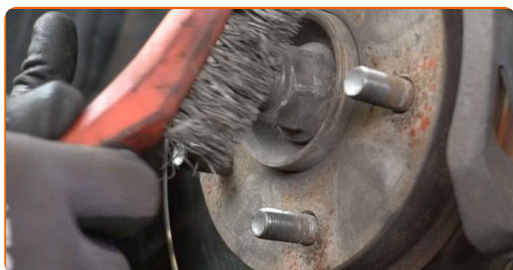
Remove the support from under the steering knuckle.

AUTODOC recommends:

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

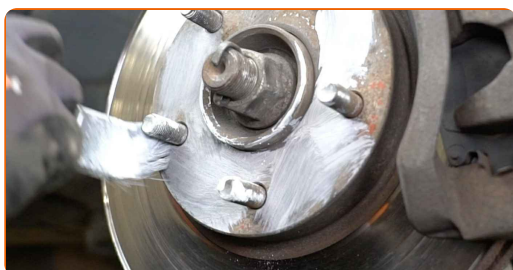
47

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



48

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



49

Clean the brake disk surface. Use a brake cleaner.

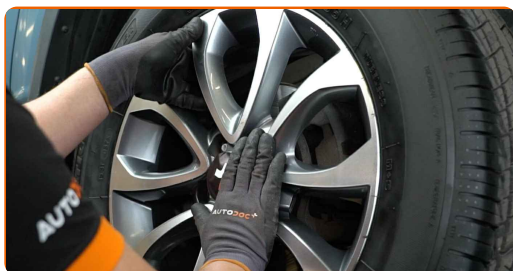


AUTODOC recommends:

- After applying the spray, wait a few minutes.

50

Install the wheel.

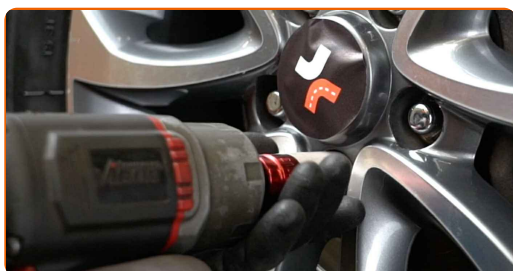


AUTODOC recommends:

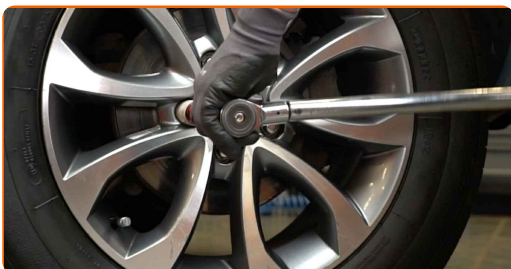
- Important! Hold the wheel while screwing in the fastening bolts. Nissan X Trail T30

51

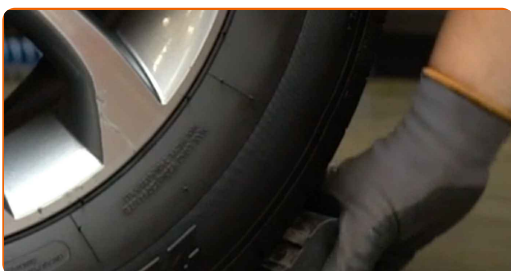
Screw in the wheel bolts. Use wheel impact socket #21.



52 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.



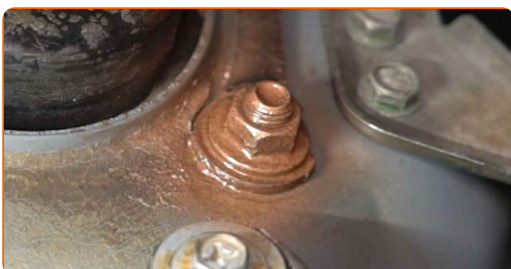
53 Remove the jacks and chocks.



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



55 Treat the shock strut fasteners. Use copper grease.



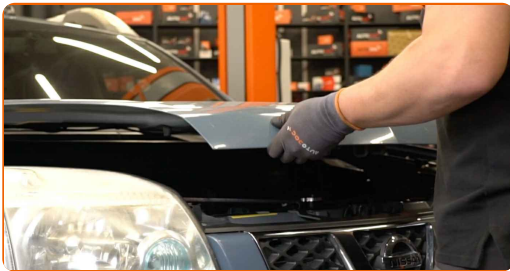
56

Remove the fender protection cover.



57

Close the hood.



WELL DONE! 

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