



How to change rear
suspension strut 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) 2.5 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) 2.2 DCi, NISSAN X-TRAIL (T30) 2.2 DCi FWD

The steps may slightly vary depending on the car design.

REPLACEMENT: SUSPENSION STRUT – NISSAN X TRAIL T30. TOOLS YOU MIGHT 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: suspension strut – Nissan X Trail T30. Tip from AUTODOC:

- Both shock struts of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts 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.



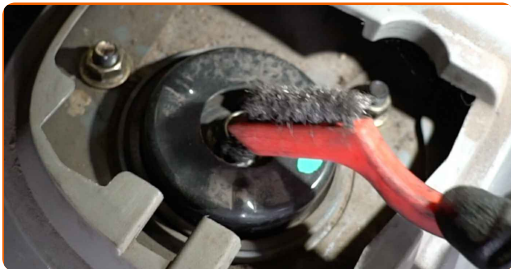
2

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



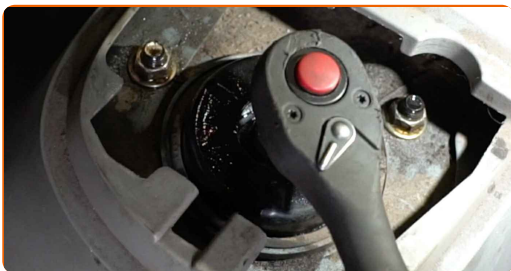
3

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: suspension strut – Nissan X Trail T30. Tip from AUTODOC:

- 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.

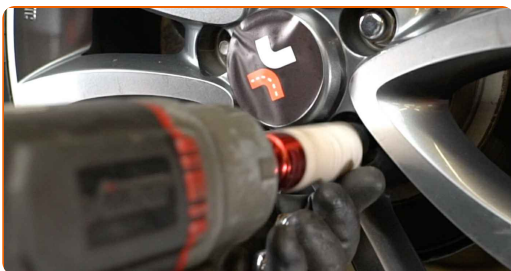


AUTODOC recommends:

- 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.

9

Unscrew the wheel bolts.

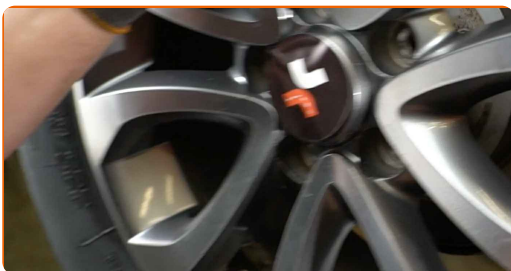


AUTODOC recommends:

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

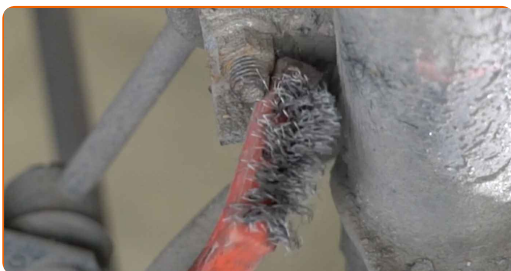
10

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.



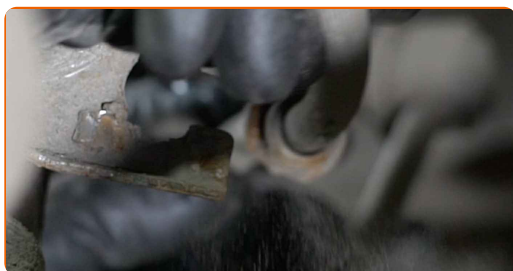
14

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



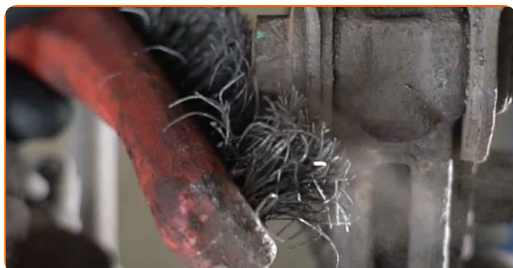
15

Detach the brake hose from the shock strut.



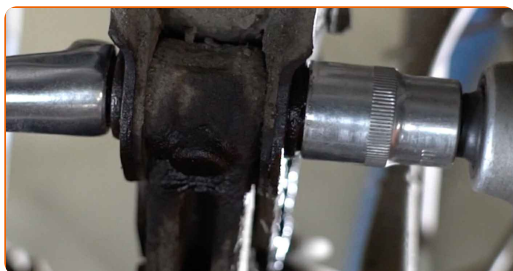
16

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.



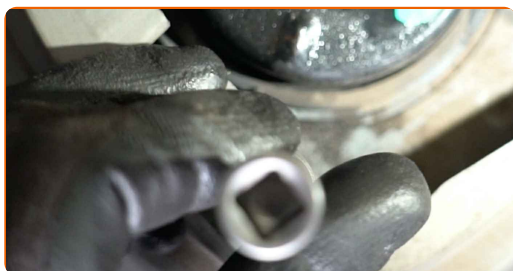
18

Support the rear knuckle. Use a hydraulic transmission jack.



19

Unscrew the upper fasteners of the shock strut.

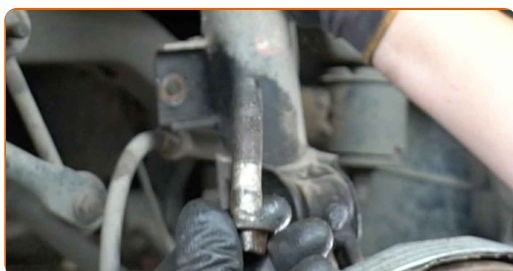


AUTODOC recommends:

- Important! Hold the suspension strut while unscrewing the fastening bolts.
Nissan X Trail T30

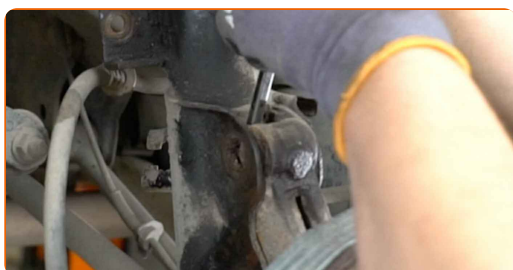
20

Remove the fastening bolts.



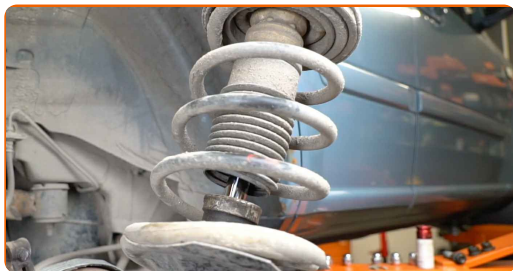
21

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

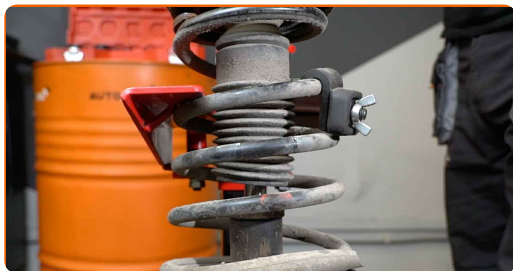
Set the suspension strut on the spring compressor tool.



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.

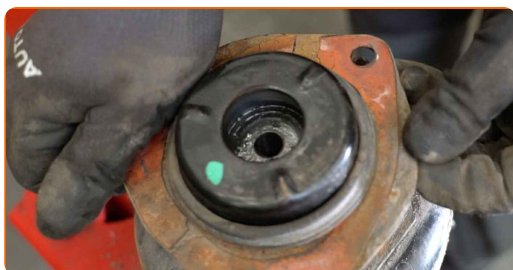
25 Compress the spring.



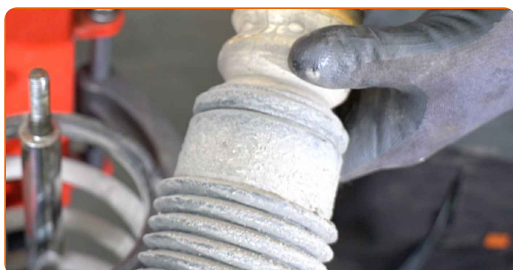
26 Remove the strut piston rod nut. Use a drive socket #17. Use a ratchet wrench.



27 Remove the top strut mount.



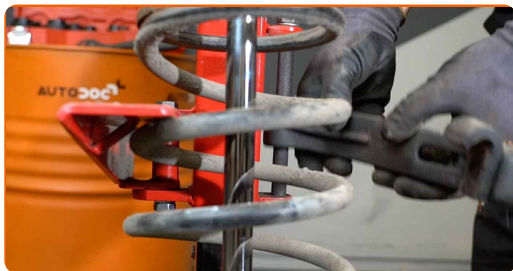
28 Remove the shock absorber dust cap and the bump stop.



AUTODOC recommends:

- Replacement: suspension strut – 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.



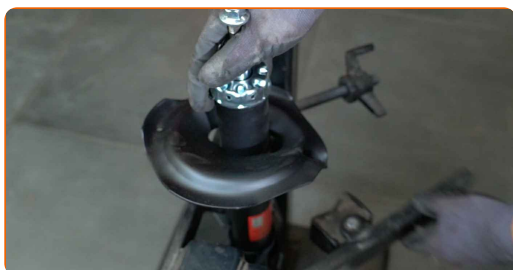
30 Remove the spring.



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



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



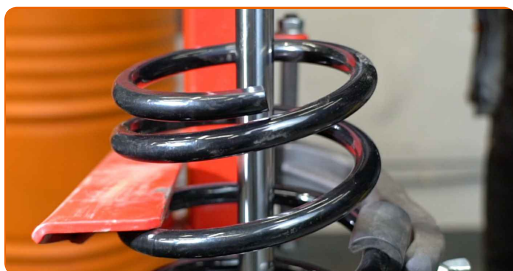
AUTODOC recommends:

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

33 Install the spring on the shock absorber.



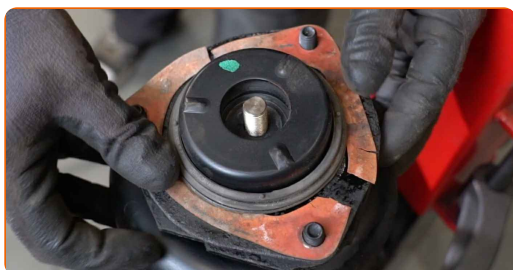
34 Compress the spring.



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



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

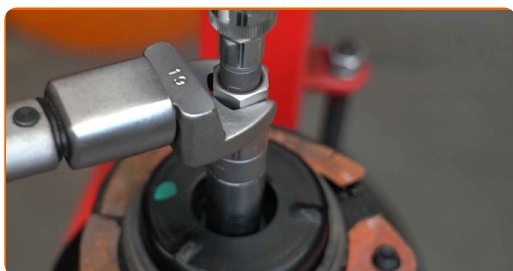


Replacement: suspension strut – Nissan X Trail T30. AUTODOC recommends:

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

37

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.

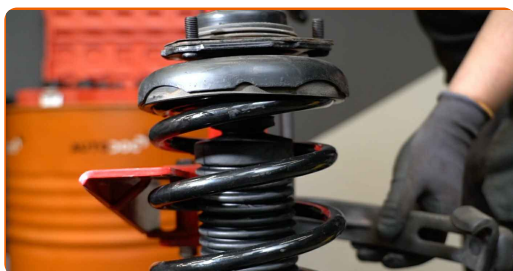


AUTODOC recommends:

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

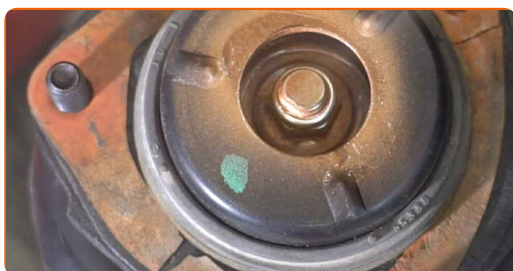
38

Decompress the spring.



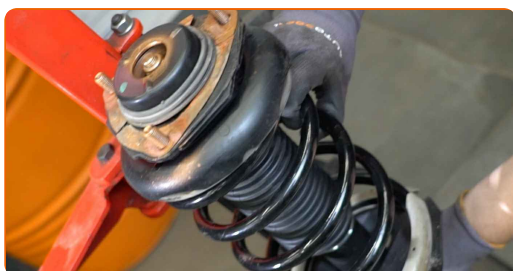
39

Treat the shock strut rod. Use copper grease.

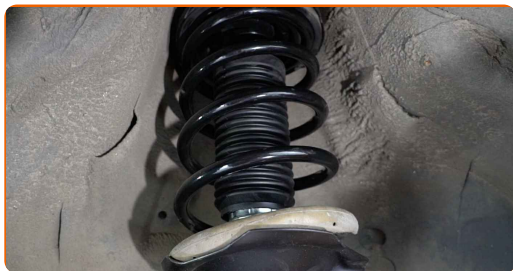


40

Remove the assembled shock strut.



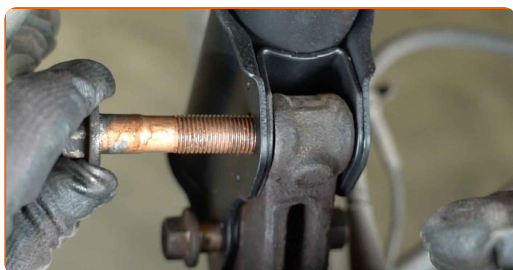
41 Install the shock strut into the wheel arch.



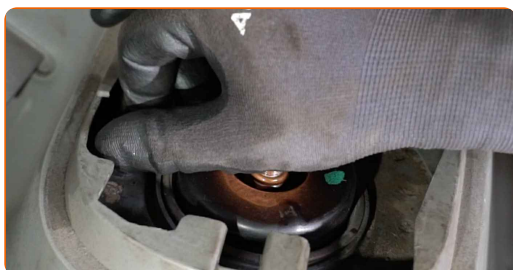
42 Attach the shock absorber to the rear knuckle.



43 Install the fastening bolts.



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



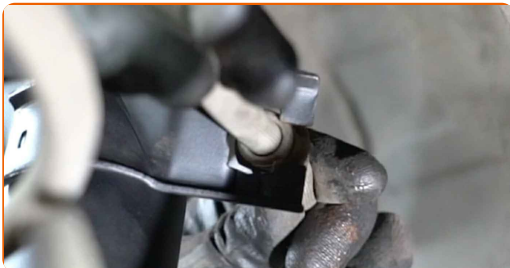
AUTODOC recommends:

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

- 45 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.



- 46 Attach the brake hose to the suspension strut.



- 47 Install the brake hose retaining clip. Use a hammer.



- 48 Remove the support from under the rear knuckle.

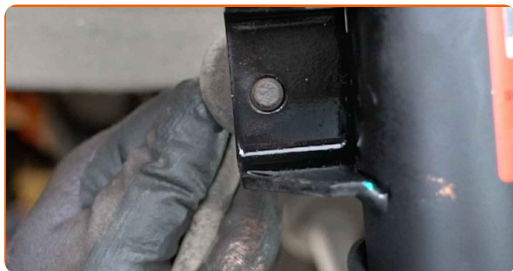


AUTODOC recommends:

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

49

Install the transverse stabilizer link.



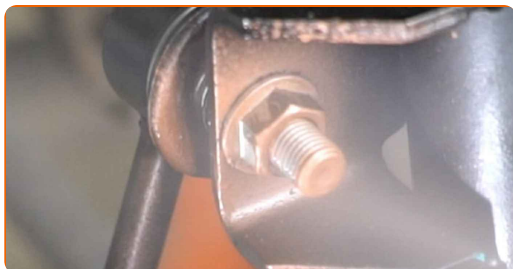
50

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.



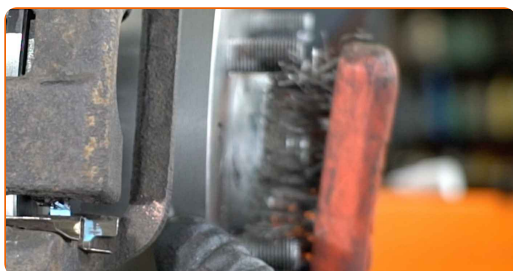
51

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



52

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



53

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



54

Clean the brake disk surface. Use a brake cleaner.

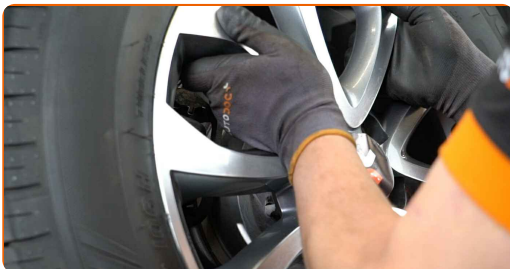


AUTODOC recommends:

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

55

Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Nissan X Trail T30

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



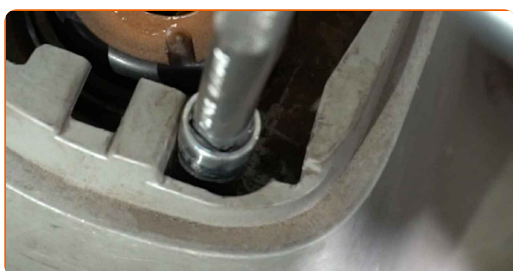
57 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #21. Use a torque wrench. Tighten it to 118 Nm torque.



58 Remove the jacks and chocks.

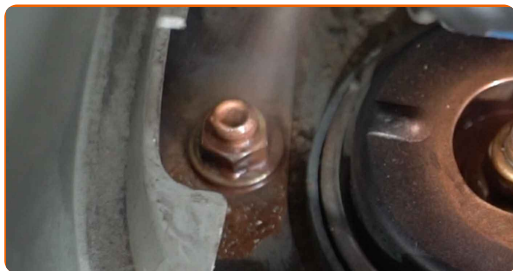


59 Tighten the upper fasteners of the shock strut. Use a drive socket #14. Use a torque wrench. Tighten it to 45 Nm torque.



60

Treat the shock strut fasteners. Use copper grease.

**61**

Install the cover of the boot side lining.

**62**

Close the lid of the luggage compartment.



WELL DONE! 

VIEW MORE TUTORIALS

AUTODOC – TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE

AUTODOC MOBILE APP: GREAT DEALS AND CONVENIENT SHOPPING



+ AUTODOC

GET IT ON
Google Play

Download on the
App Store

Download

A GREAT SELECTION OF SPARE PARTS FOR YOUR CAR

BUY SPARE PARTS FOR NISSAN

SHOCK ABSORBERS: A WIDE SELECTION

CHOOSE CAR PARTS FOR NISSAN X TRAIL T30

SHOCK ABSORBERS FOR NISSAN: BUY NOW

**SHOCK ABSORBERS FOR NISSAN X TRAIL T30: THE BEST
DEALS & OFFERS**

DISCLAIMER:

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AUTODOC shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AUTODOC shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AUTODOC shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AUTODOC strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.

© Copyright 2023 – All the contents of this website, in particular texts, photographs and graphics, are protected by copyright. All rights, including reproduction, publication, editing and translation rights, are reserved by AUTODOC SE.