



How to change front
wheel bearing on **Nissan**
X Trail T30 – replacement
guide

VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:

NISSAN Almera Tino (V10) 1.8, NISSAN Almera Tino (V10) 2.0, NISSAN Almera Tino (V10) 2.2 dCi, NISSAN X-Trail (T30) 2.0 4x4, NISSAN X-Trail (T30) 2.2 Di 4x4, NISSAN Primera Saloon (P12) 1.8, NISSAN Primera Saloon (P12) 2.0, NISSAN Primera Saloon (P12) 2.2 Di, NISSAN Primera Hatchback (P12) 1.8, NISSAN Primera Hatchback (P12) 2.0, NISSAN Primera Hatchback (P12) 2.2 Di, NISSAN Primera Saloon (P12) 1.9 dCi, NISSAN Primera Hatchback (P12) 1.9 dCi, NISSAN X-Trail (T30) 2.2 dCi 4x4, NISSAN X-Trail (T30) 2.0, (+ 6)

The steps may slightly vary depending on the car design.

REPLACEMENT: WHEEL BEARING – 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
- Combination spanner #22
- Drive socket # 10
- Drive socket # 19
- Drive socket # 22
- Drive socket # 32
- Wheel impact socket #21
- Bush and bearing driver set
- Bearing separator
- Ball joint puller
- Ratchet wrench
- Circlip pliers
- Flat Screwdriver
- Tap wrench
- Crow bar
- Wheel chock

BUY TOOLS

AUTODOC recommends:

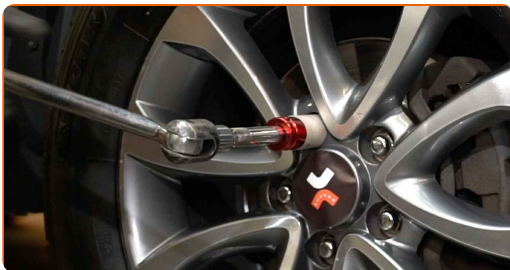
- Do not re-use the bearing assembly of your Nissan X Trail T30 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – Nissan X Trail T30 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the bonnet. Unscrew the brake fluid reservoir cap.

2 Secure the wheels with chocks.

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



4 Raise the car.



Replacement: wheel bearing – Nissan X Trail T30. 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.

5

Unscrew the wheel bolts.

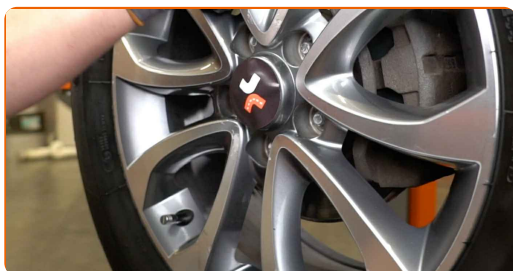


AUTODOC recommends:

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

6

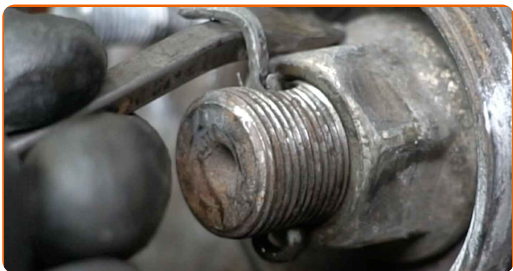
Remove the wheel.



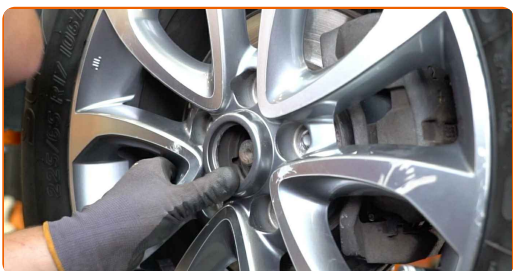
7

Clean the fastener of the driveshaft. Use a wire brush. Use WD-40 spray.

8 Remove the cotter pin. Use a crowbar.



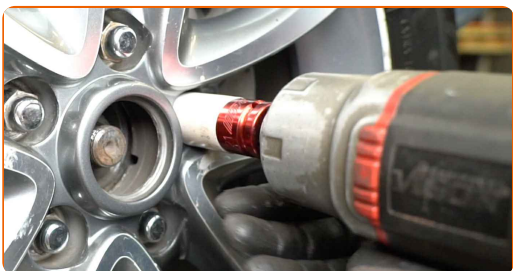
9 Install the wheel.



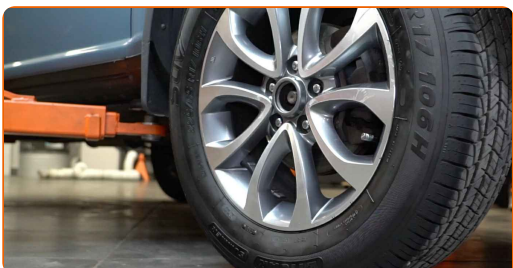
AUTODOC recommends:

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

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

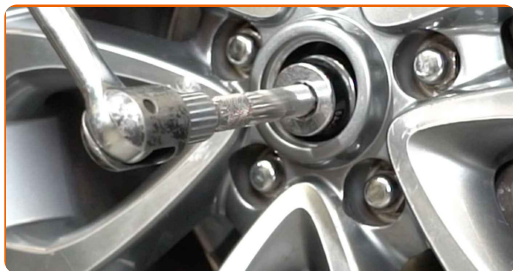


11 Lower the car.



12

Loosen the fastener of the driveshaft. Use a drive socket #32. Use a tap wrench.



13

Raise the car.

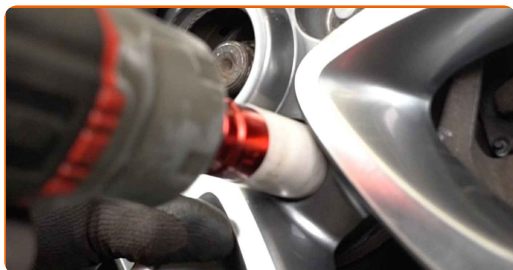


Replacement: wheel bearing – Nissan X Trail T30. AUTODOC experts recommend:

- 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.

14

Unscrew the wheel bolts.

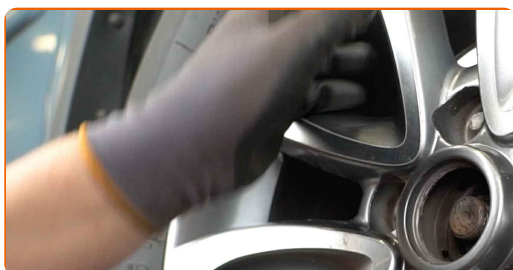


AUTODOC recommends:

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

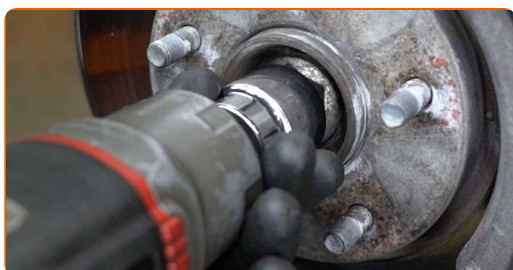
15

Remove the wheel.



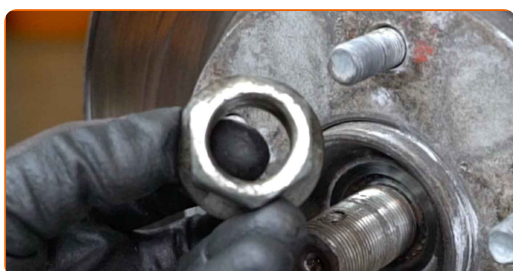
16

Unscrew the fastener connecting the drive shaft to the wheel hub. Use a drive socket #32. Use a ratchet wrench.



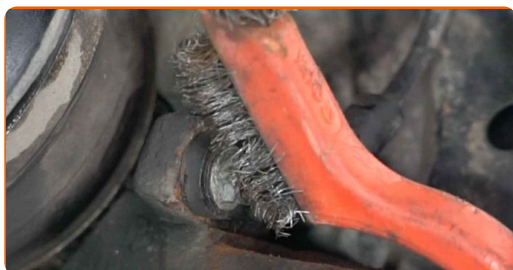
17

Remove the fastening nut.



18

Clean the ABS sensor fastener. Use a wire brush. Use WD-40 spray.

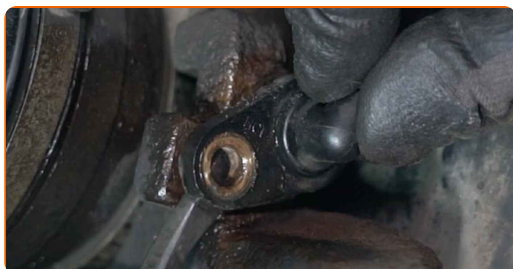


19 Unscrew the ABS sensor fastener. Use a drive socket #10. Use a ratchet wrench.



20 Remove the fastening bolt.

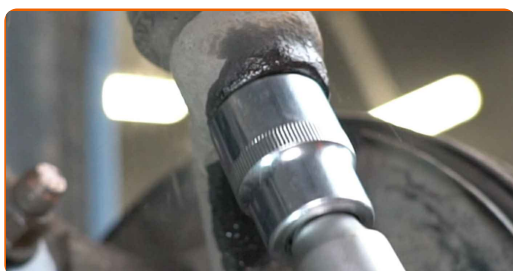
21 Disconnect the ABS sensor. Use a crowbar.



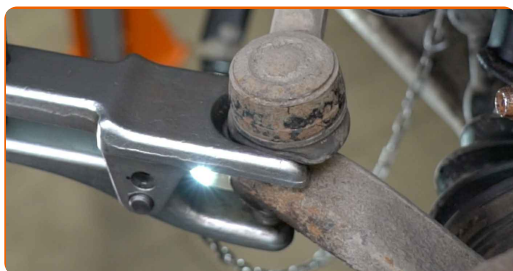
22 Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



23 Unscrew the end fastening nut to the steering knuckle. Use a drive socket #22. Use a ratchet wrench.



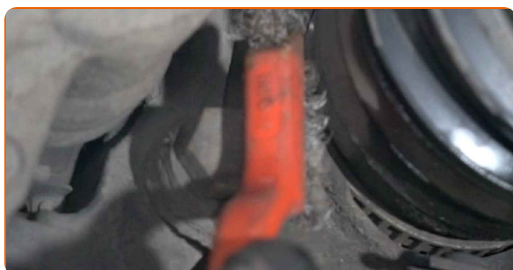
24 Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



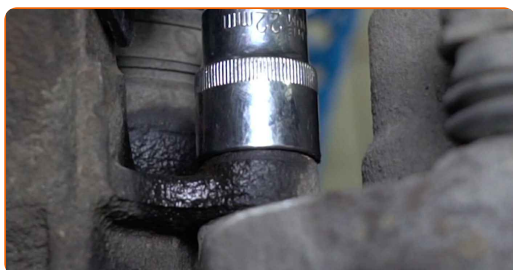
25 Spread the brake pads. Use a crowbar.



26 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.

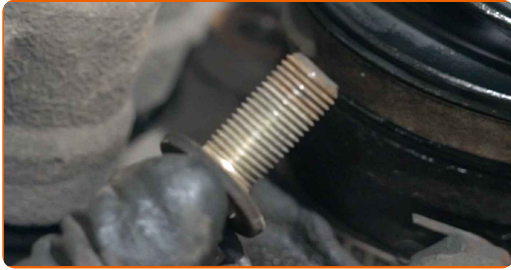


27 Unscrew the brake caliper bracket fasteners. Use a drive socket #22. Use a ratchet wrench.



28

Remove the fastening bolts.



29

Remove the brake caliper together with its bracket.



Replacement: wheel bearing – Nissan X Trail T30. AUTODOC recommends:

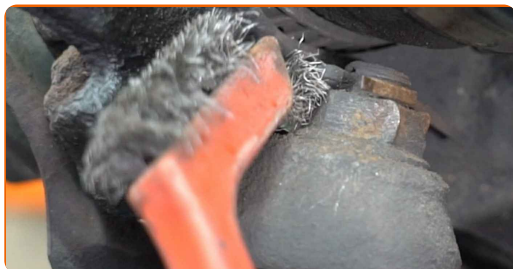
- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.

30

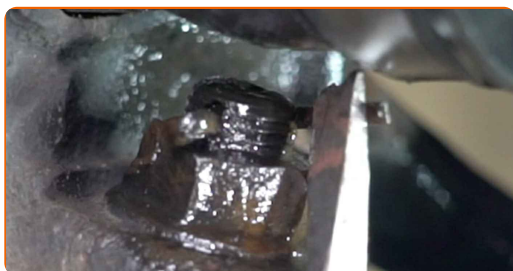
Remove the brake disc.



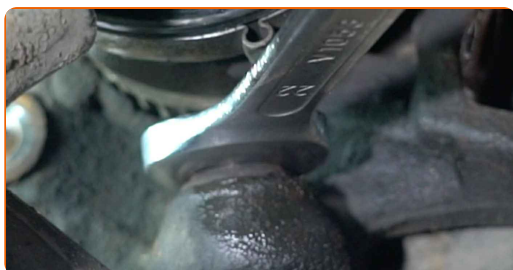
31 Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.



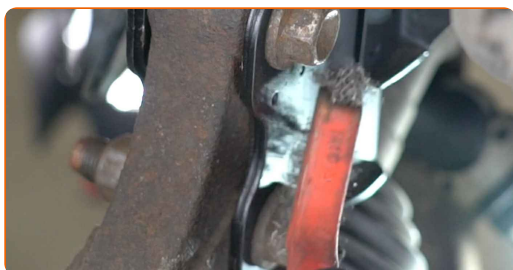
32 Remove the cotter pin that secures the fastener connecting the ball joint to the steering knuckle. Use a crowbar.



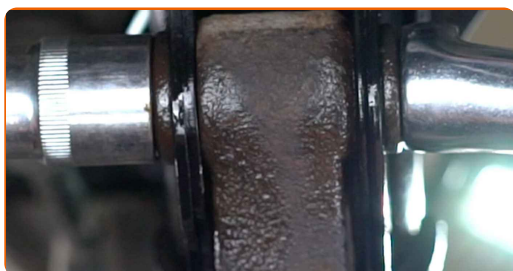
33 Loosen the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #22.



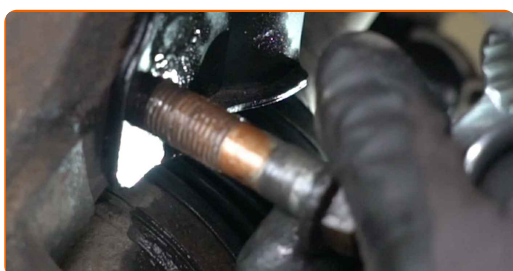
34 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



- 35** 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.



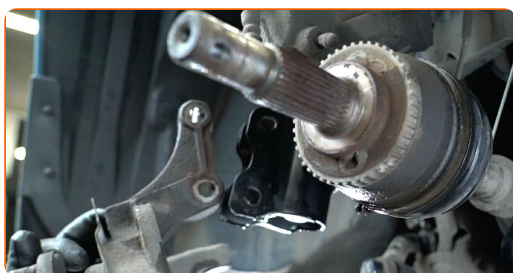
- 36** Remove the fastening bolts.



- 37** Disconnect the steering knuckle from the shock absorber strut.



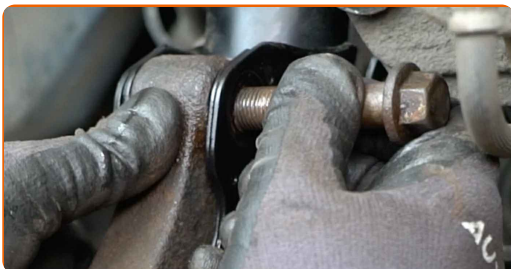
- 38** Detach the driveshaft from the steering knuckle.



Replacement: wheel bearing – Nissan X Trail T30. Tip:

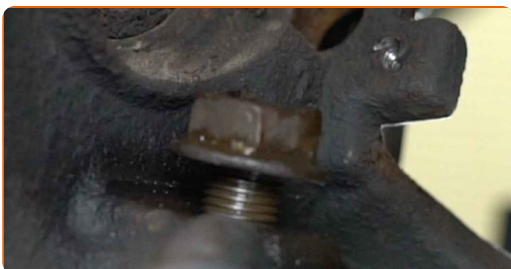
- Make sure that the drive shaft is not unloaded (when the car is jacked).

39 Fix the shock absorber strut on the steering knuckle.

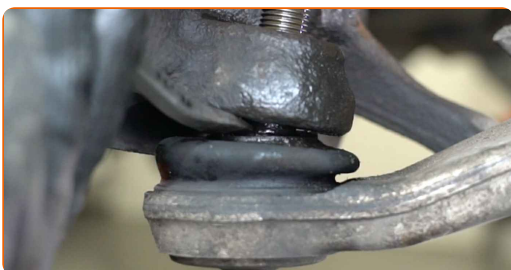


40 Install the fastening bolts.

41 Unscrew the ball joint fastening to the steering knuckle.



42 Disconnect the ball joint from the steering knuckle. Use a ball joint puller.

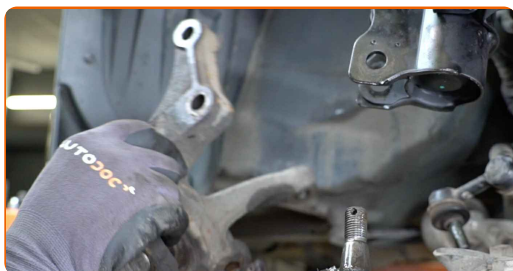


43 Remove the fastening bolts.

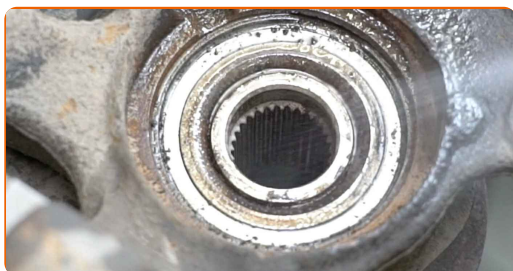
44 Disconnect the steering knuckle from the shock absorber strut.



45 Remove the steering knuckle together with the wheel hub.



46 Clean the wheel hub bearing retaining ring. Use a wire brush. Use WD-40 spray.



47 Remove the wheel hub bearing retaining ring. Use a flat screwdriver.



48 Remove the hub from the steering knuckle. Bush and bearing driver set.



49 Clean the wheel hub bearing retaining ring. Use a wire brush. Use WD-40 spray.



50 Remove the wheel hub bearing retaining ring. Use a flat screwdriver.



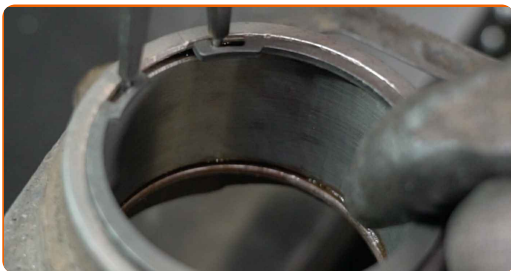
51 Press out the wheel hub bearing. Bush and bearing driver set.



52 Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.



53 Install the wheel hub bearing retaining ring. Use circlip pliers.



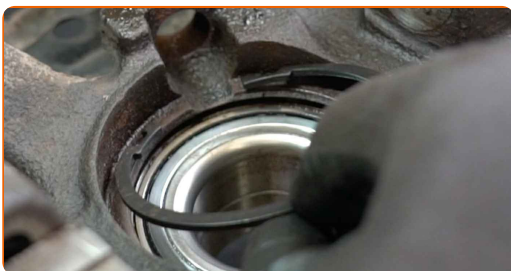
54 Press-fit the new bearing into the steering knuckle. Use a bush and bearing driver set.



Replacement: wheel bearing – Nissan X Trail T30. Tip from AUTODOC:

- Check to make sure the wheel hub bearing is positioned correctly. Avoid its misalignment.

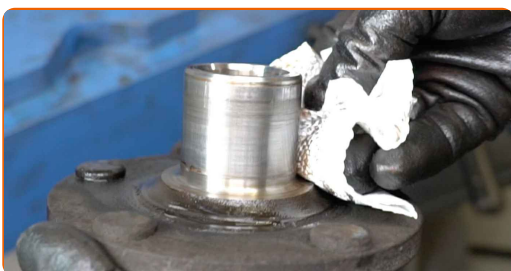
55 Install the wheel hub bearing retaining ring. Use circlip pliers.



- 56 Dismantle the inner bearing race that is remaining on the hub. Use a bush and bearing driver set. Use a bearing separator.



- 57 Clean the wheel hub mounting seat. Use a wire brush. Use WD-40 spray.



- 58 Install the wheel hub on the steering knuckle. Use a bush and bearing driver set.



Replacement: wheel bearing – Nissan X Trail T30. Professionals recommend:

- Check to make sure the wheel hub bearing is positioned correctly. Avoid its misalignment.

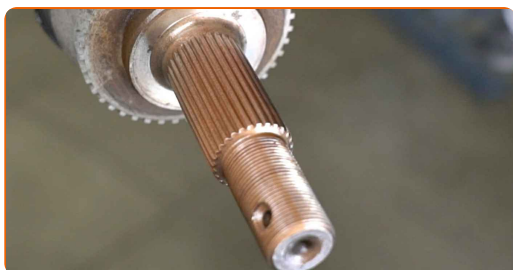
59 Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



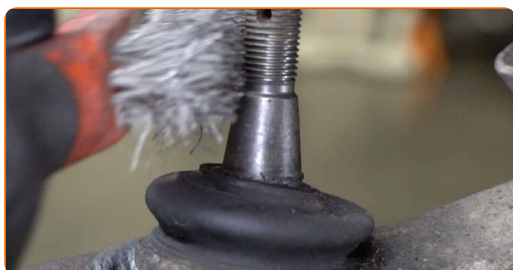
60 Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.



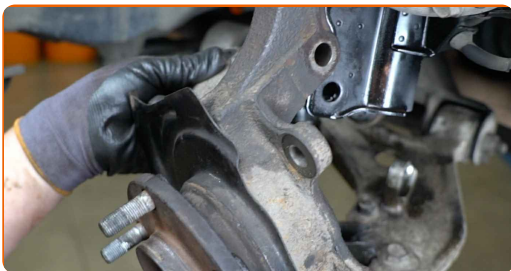
61 Treat the splines of the driveshaft CV joint. Use copper grease.



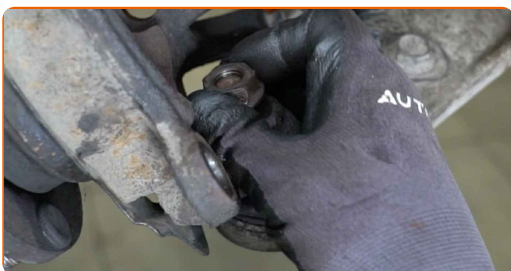
62 Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.



63 Install the steering knuckle assembled with the wheel hub.



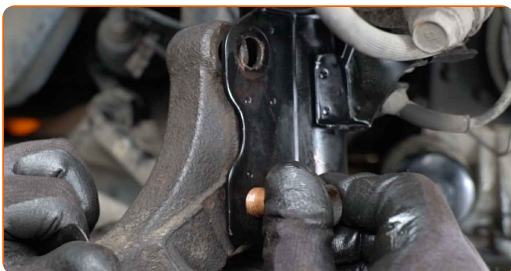
64 Connect the ball joint to the steering knuckle.



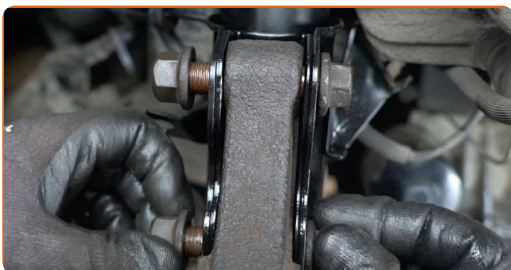
65 Install the drive shaft.



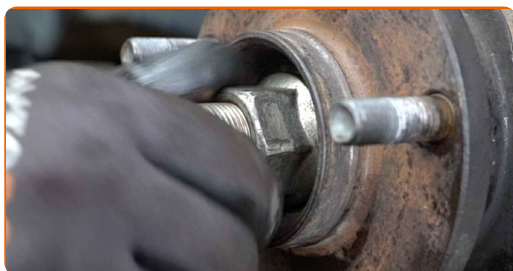
66 Fix the shock absorber strut on the steering knuckle.



67 Install the fastening bolts.



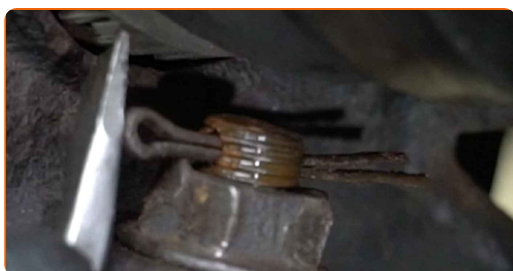
68 Install the fastening nut.



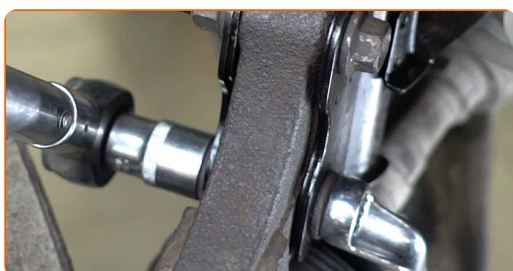
69 Tighten the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #22. Use a torque wrench. Tighten it to 77 Nm torque.



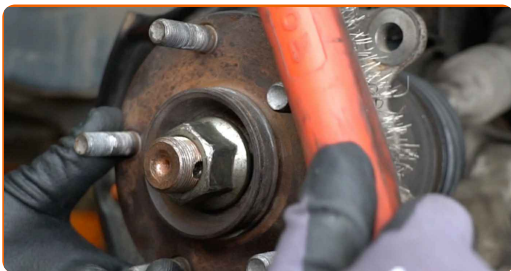
70 Install the cotter pin that secures the fastener connecting the ball joint to the steering knuckle. Use a crowbar.



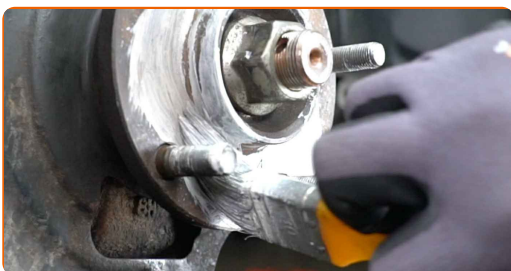
71 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #19. Use a torque wrench. Tighten it to 140 Nm torque.



72 Clean the hub. Use a wire brush.



73 Treat the contacting surface. Use ceramic grease.



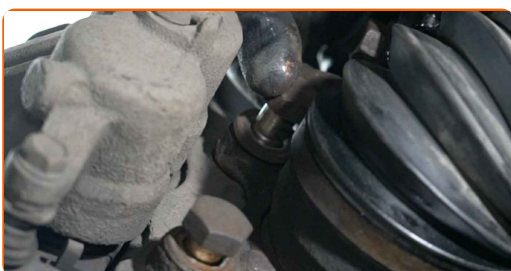
74 Install the brake disc.



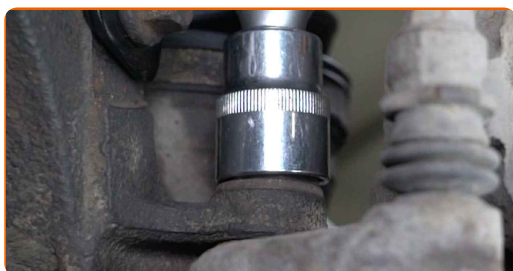
75 Install the brake caliper together with its bracket.



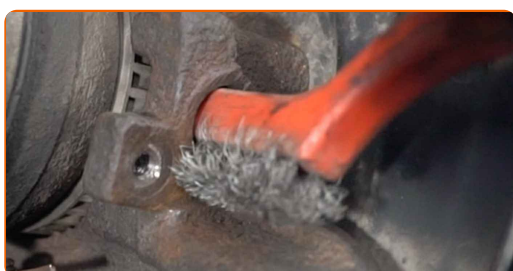
76 Install the fastening bolts.



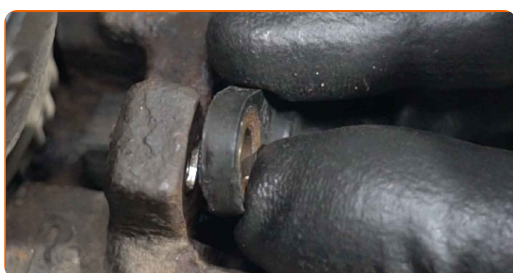
- 77** Tighten the brake caliper bracket fasteners. Use a drive socket #22. Use a torque wrench. Tighten it to 148 Nm torque.



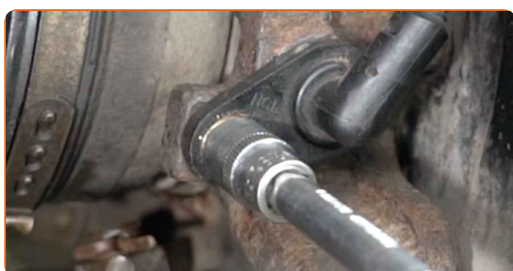
- 78** Clean the ABS sensor mounting seat. Use a wire brush. Use WD-40 spray.



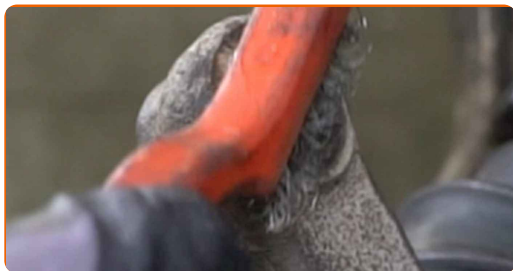
- 79** Connect the ABS sensor.



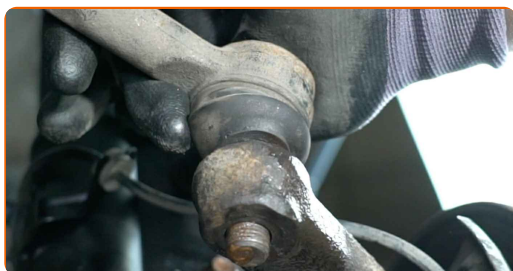
- 80** Tighten the fastener that connects the ABS sensor to the steering knuckle. Use a drive socket #10. Use a torque wrench. Tighten it to 9 Nm torque.



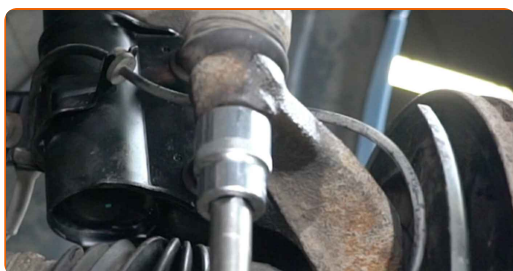
81 Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



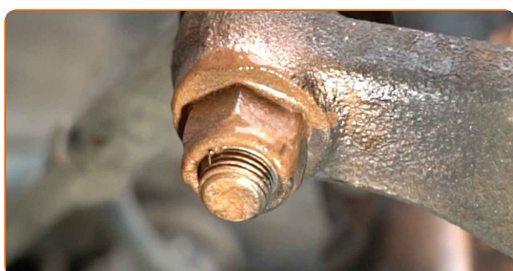
82 Connect the tie rod end to the steering knuckle.



83 Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #22. Use a torque wrench. Tighten it to 48 Nm torque.



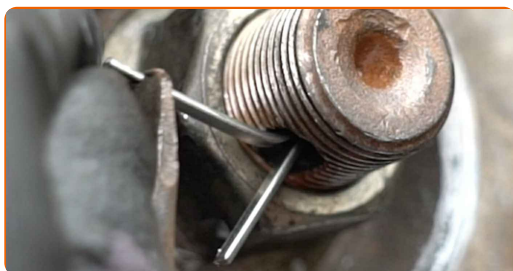
84 Treat the shock strut fasteners. Treat the fastener connecting the tie rod end to the steering knuckle. Treat the ball joint fastener. Use copper grease.



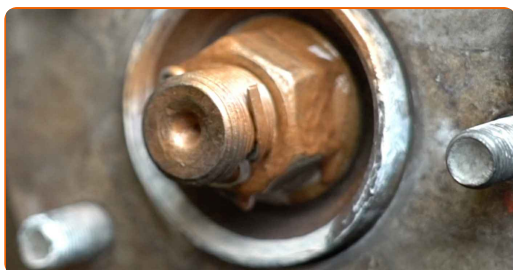
85 Tighten the CV axle fastener. Use a drive socket #32. Use a torque wrench. Tighten it to 294 Nm torque.



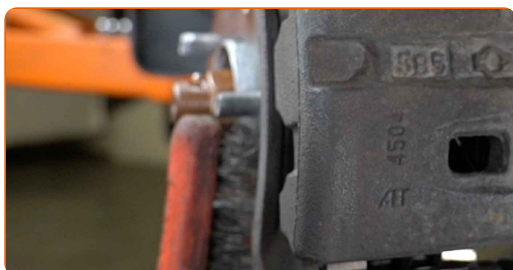
86 Install the cotter pin. Use a crowbar.



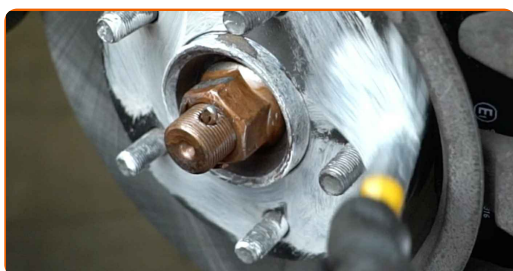
87 Treat the CV axle fastener. Use copper grease.



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



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



90

Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

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

91

Install the wheel.



AUTODOC recommends:

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

92

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



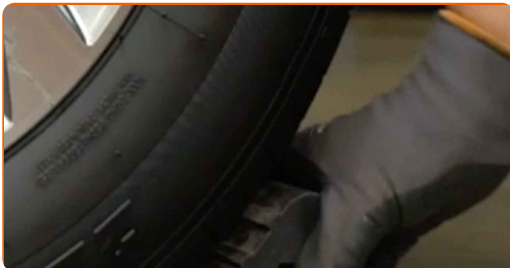
93

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.



94

Remove the jacks and chocks.



Replacement: wheel bearing – Nissan X Trail T30. AUTODOC experts recommend:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.
- Check the brake fluid level in the expansion tank and refill if necessary.

95

Tighten the brake fluid reservoir cap. Close the hood.

WELL DONE! 

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