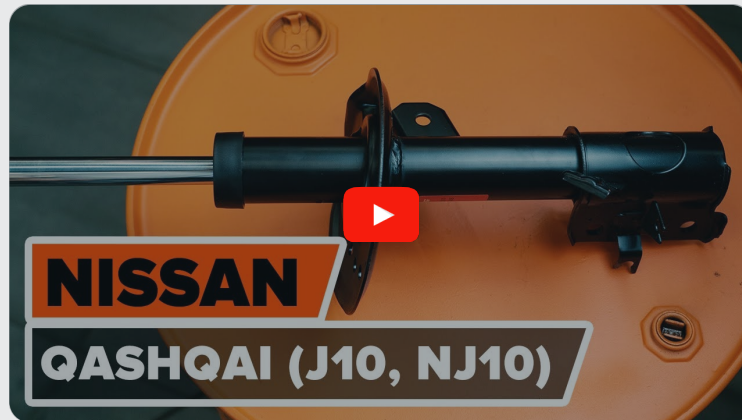




How to change front
suspension strut on
Nissan Qashqai J10 –
replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:

NISSAN Qashqai / Qashqai +2 I (J10, NJ10) 1.5 dCi, NISSAN Qashqai / Qashqai +2 I (J10, NJ10) 1.6, NISSAN Qashqai / Qashqai +2 I (J10, NJ10) 2.0, NISSAN Qashqai / Qashqai +2 I (J10, NJ10) 2.0 All-wheel Drive, NISSAN Qashqai / Qashqai +2 I (J10, NJ10) 1.6 dCi All-wheel Drive, NISSAN Qashqai / Qashqai +2 I (J10, NJ10) 1.6 dCi, NISSAN Qashqai / Qashqai +2 I (J10, NJ10) 2.0 dCi, NISSAN Qashqai / Qashqai +2 I (J10, NJ10) 2.0 dCi All-wheel Drive

The steps may slightly vary depending on the car design.

REPLACEMENT: SUSPENSION STRUT – NISSAN QASHQAI J10. TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #18
- HEX bit no.H6.
- Drive socket # 13
- Drive socket # 14
- Drive socket # 18
- Drive socket # 19
- Drive socket # 21
- Wheel impact socket #21
- Ratchet wrench
- Clip removal tool
- Universal puller
- Hammer
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

BUY TOOLS

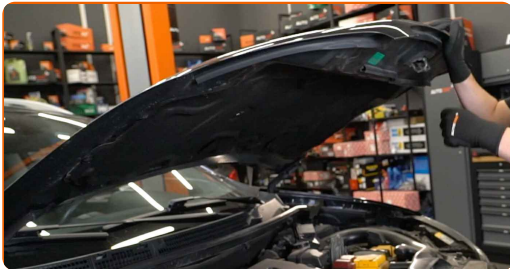
Replacement: suspension strut – Nissan Qashqai J10. AUTODOC recommends:

- 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.
- All work should be done with the engine stopped.

REPLACEMENT: SUSPENSION STRUT – NISSAN QASHQAI J10. RECOMMENDED SEQUENCE OF STEPS:

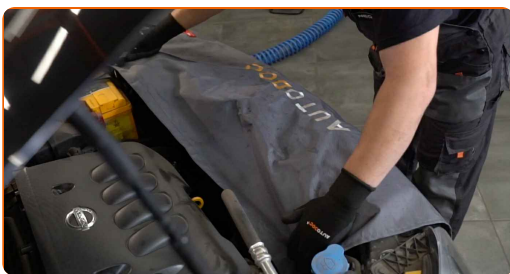
1

Open the bonnet.



2

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



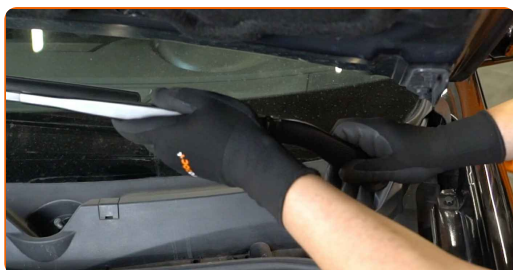
3 Remove the windscreen wiper arm nut covers. Use a clip removal tool.



4 Unscrew the fasteners of the windscreen wiper arms. Use a drive socket #14. Use a ratchet wrench.



5 Remove the wiper arms. Use a universal puller.



6 Remove the clips of the plastic cowl grille. Use a clip removal tool.



7 Raise up and remove the cowl grille.

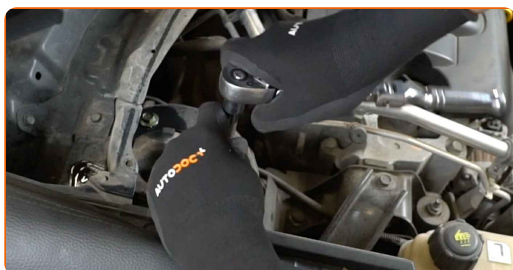


8 Detach the windscreen washer nozzle hose.

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



10 Loosen the upper fastener of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.



11 Secure the wheels with chocks.

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



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



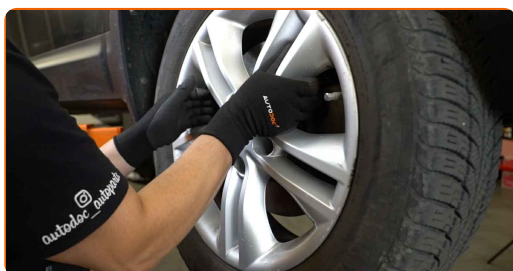
14 Unscrew the wheel bolts.



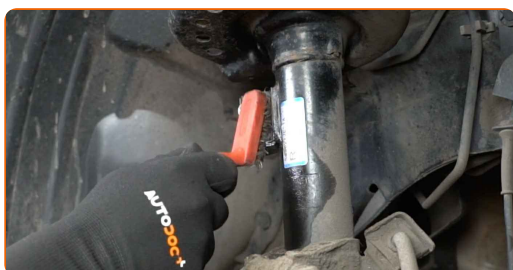
AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Nissan Qashqai J10

15 Remove the wheel.



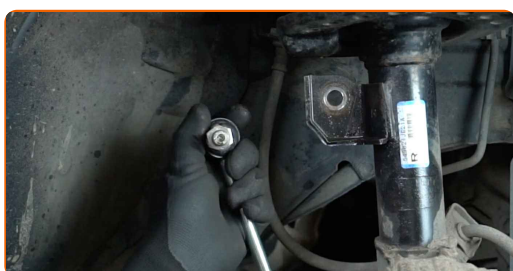
16 Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



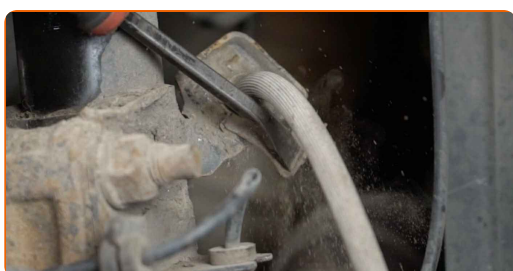
- 17 Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #19. Use a ratchet wrench.



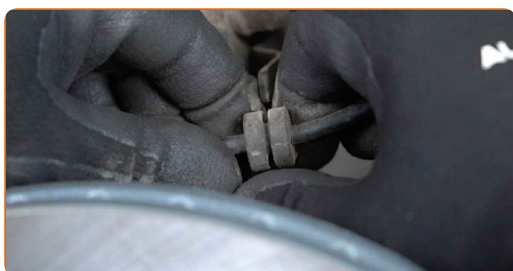
- 18 Remove the stabilizer rod.



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

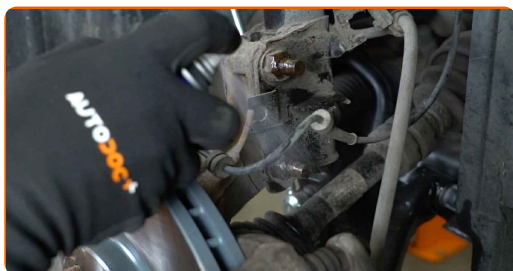


- 20 Detach the brake hose from the shock strut.



- 21 Disconnect the ABS sensor wiring.

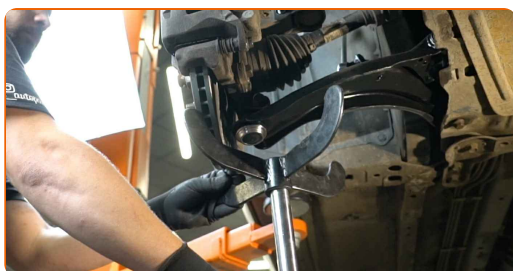
22 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



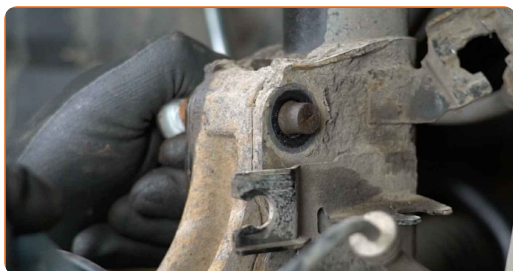
23 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #21. Use a ratchet wrench.



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

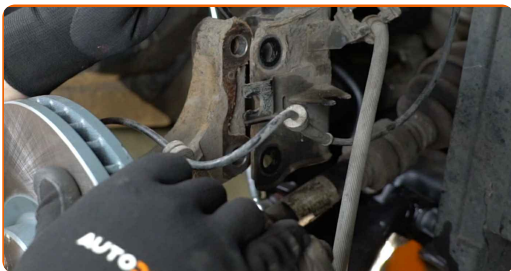


25 Remove the fastening bolts.



26

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



27

Remove the support from under the steering knuckle.

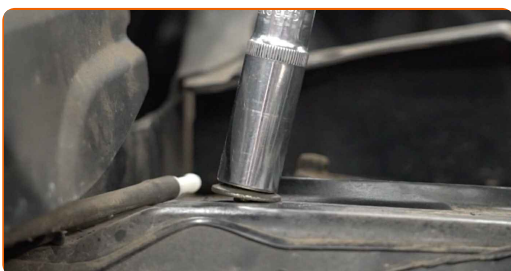


AUTODOC recommends:

- Replacement: suspension strut – Nissan Qashqai J10. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

28

Unscrew the top fastening of the shock strut mount.

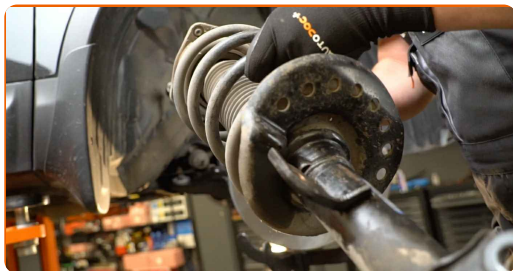


Replacement: suspension strut – Nissan Qashqai J10. Tip:

- To avoid injuries, hold the shock strut when undoing the fastening bolts.

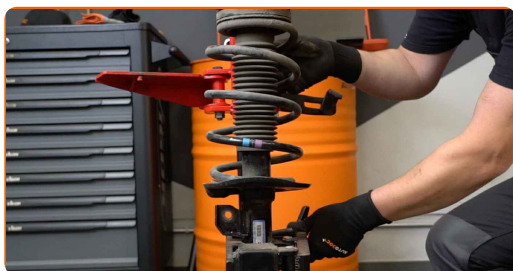
29

Remove the suspension strut.



30

Set the shock absorber strut on the spring compressor tool.



Replacement: suspension strut – Nissan Qashqai J10. AUTODOC experts recommend:

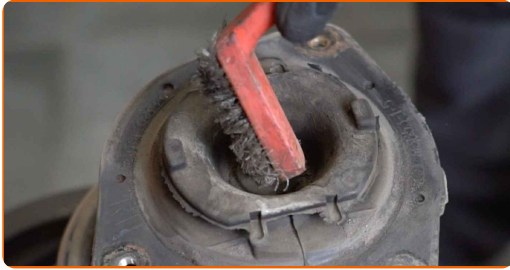
- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

31

Compress the spring.



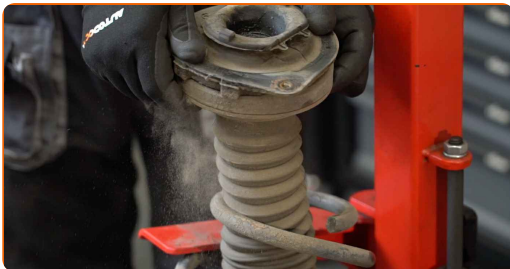
32 Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



33 Remove the strut piston rod nut. Use HEX No.H6. Use a drive socket #18. Use a ratchet wrench.



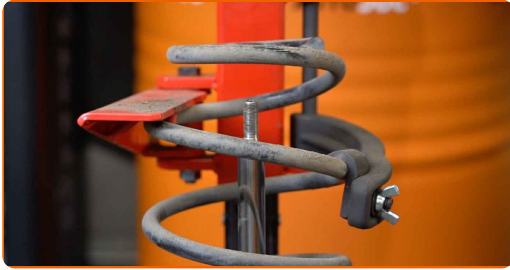
34 Remove the shock absorber mount, boot and bump stop.



AUTODOC recommends:

- Replacement: suspension strut – Nissan Qashqai J10. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

35 Release the coil spring.



36 Remove the spring.



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



Replacement: suspension strut – Nissan Qashqai J10. Tip from AUTODOC:

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

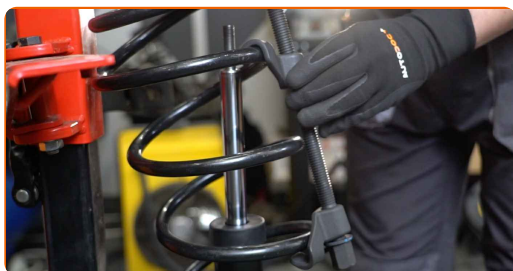
38 Install the new shock absorber on the hydraulic coil spring compressor.



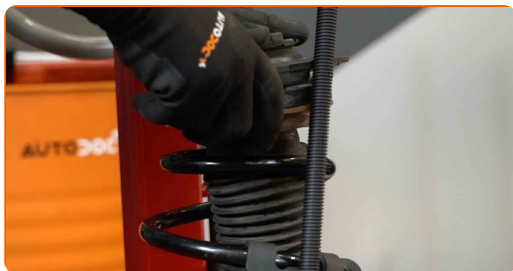
39 Install the spring on the shock absorber.



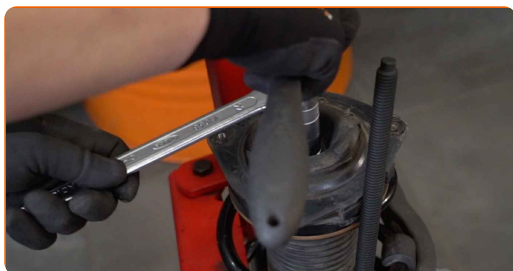
40 Compress the spring.



41 Install the mount, boot and bump stop onto a new shock absorber.



42 Tighten the shock strut piston rod nut. Use HEX No.H6. Use a drive socket #18. Use a torque wrench. Tighten it to 62 Nm torque.



Replacement: suspension strut – Nissan Qashqai J10. AUTODOC experts recommend:

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

43

Decompress the spring.



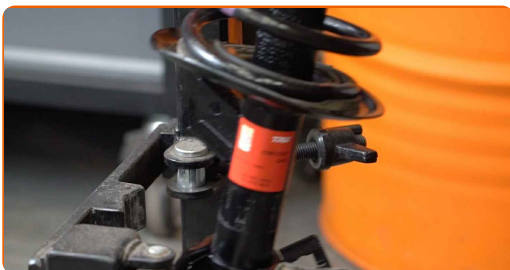
44

Treat the shock strut rod. Use copper grease.



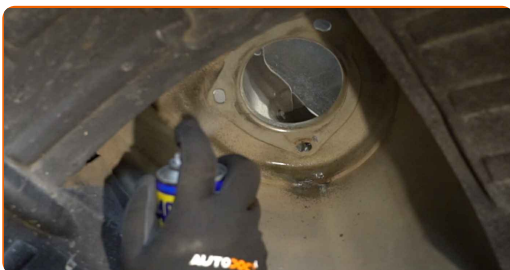
45

Remove the assembled shock strut.

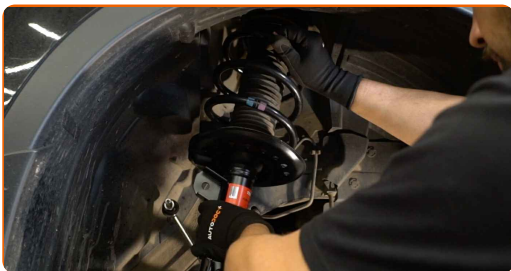


46

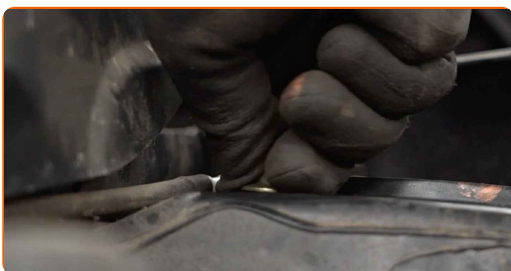
Treat the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



47 Install the shock strut into the wheel arch.



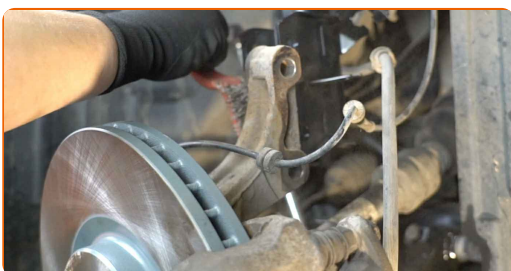
48 Screw the top fastening of the shock strut mount. Do not tighten it.



AUTODOC recommends:

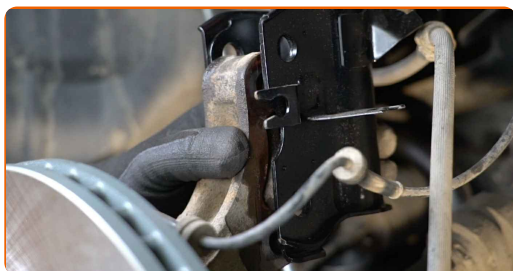
- Important! Hold the suspension strut while screwing in the fastening bolts.
Nissan Qashqai J10

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

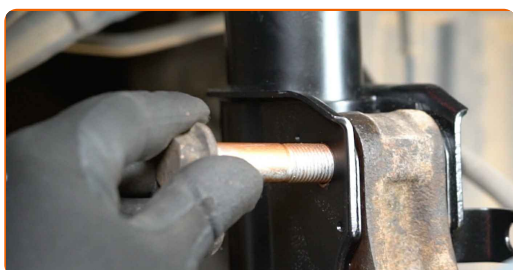


50 Prop up the steering knuckle. Use a hydraulic transmission jack.

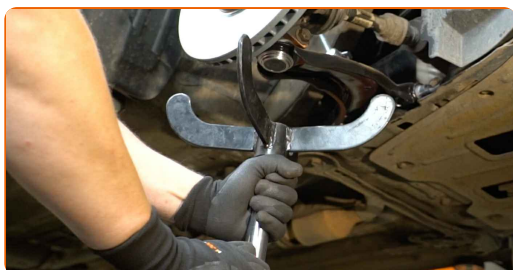
51 Fix the shock absorber strut on the steering knuckle.



52 Install the fastening bolts.



53 Remove the support from under the steering knuckle.



Replacement: suspension strut – Nissan Qashqai J10. Professionals recommend:

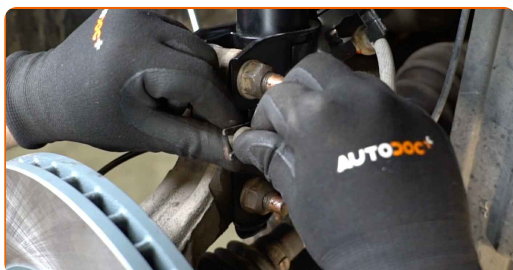
- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

- 54 Screw in the fastener that connects the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #21. Use a ratchet wrench.

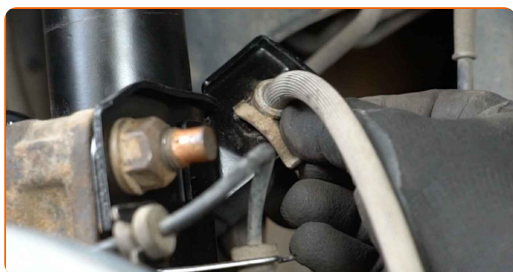


- 55 Connect the ABS sensor wiring.

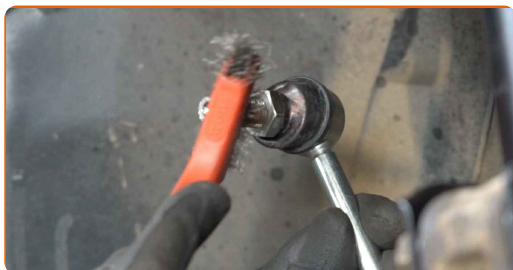
- 56 Fasten the brake hose on the strut.



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



- 58 Clean the mounting seats of the stabiliser link. Use a wire brush. Use WD-40 spray.



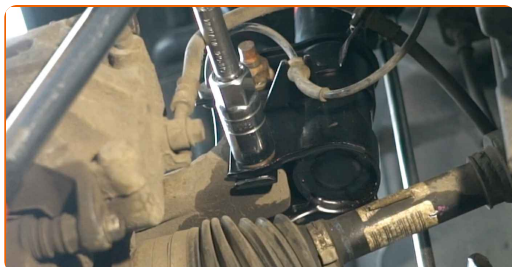
59 Install the transverse stabilizer link.



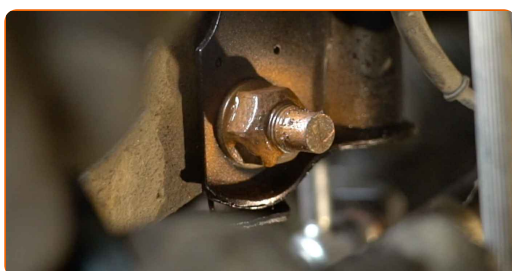
60 Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #19. Use a torque wrench. Tighten it to 65 Nm torque.



61 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #21. Use a torque wrench. Tighten it to 168 Nm torque.



62 Treat the shock strut fasteners. Treat all joints of the stabiliser link. Use copper grease.



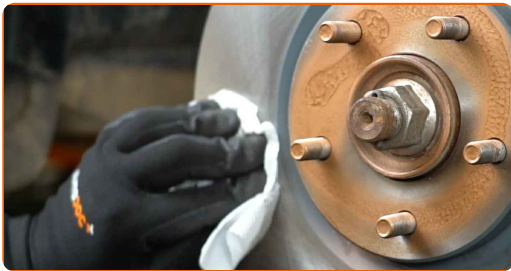
63

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



64

Clean the brake disk surface. Use a brake cleaner.

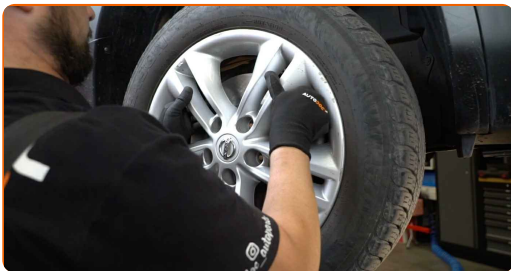


AUTODOC recommends:

- Replacement: suspension strut – Nissan Qashqai J10. After applying the spray, wait a few minutes.

65

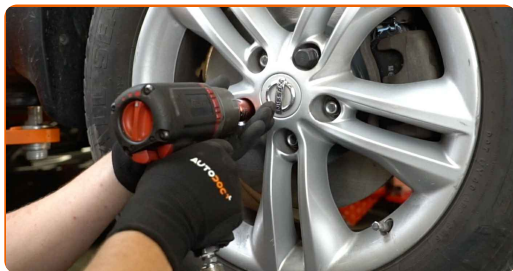
Install the wheel.



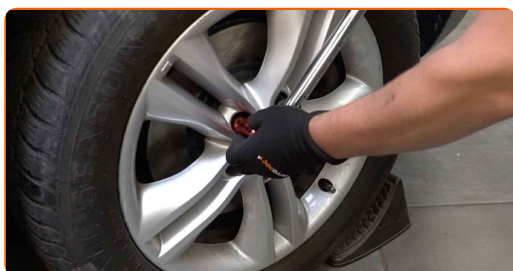
Replacement: suspension strut – Nissan Qashqai J10. AUTODOC experts recommend:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

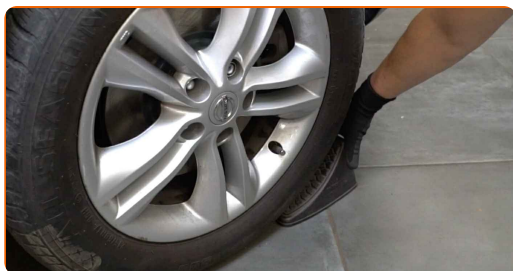
66 Screw in the wheel bolts. Use wheel impact socket #21.



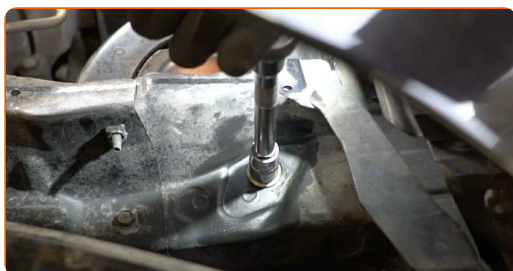
67 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #21. Use a torque wrench. Tighten it to 112 Nm torque.



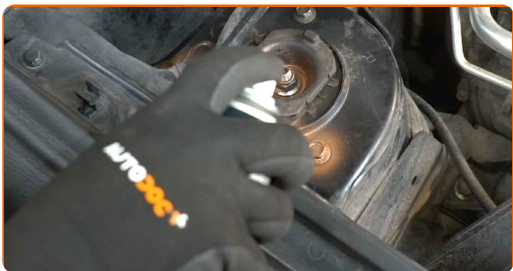
68 Remove the jacks and chocks.



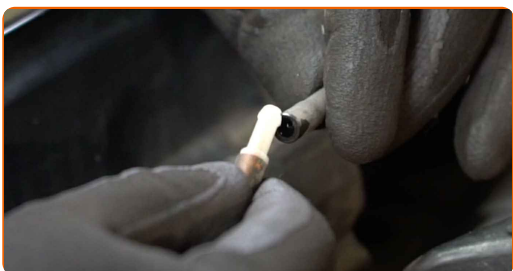
69 Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 15 nm torque.



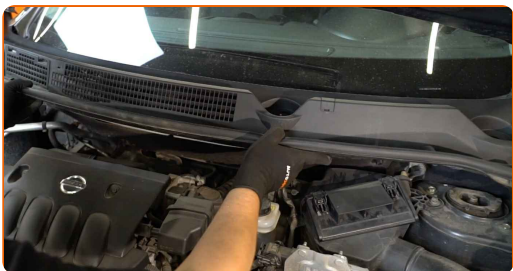
70 Treat the fasteners of the shock strut mount. Use copper grease.



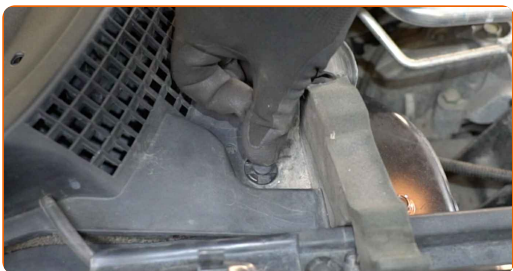
71 Attach the windscreen washer nozzle hose.



72 Install and secure the cowl grille.



73 Install the fasteners of the wiper plastic cowl grille.



74 Reinstall the wiper arms.



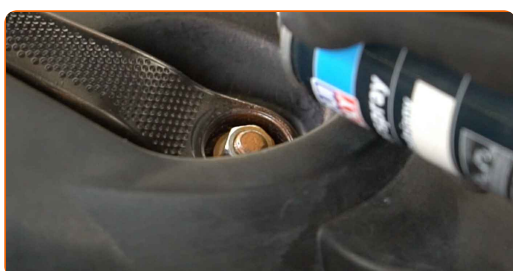
Replacement: suspension strut – Nissan Qashqai J10. AUTODOC recommends:

- Make sure not to mix up the wiper arms on the driver's and passenger's sides.

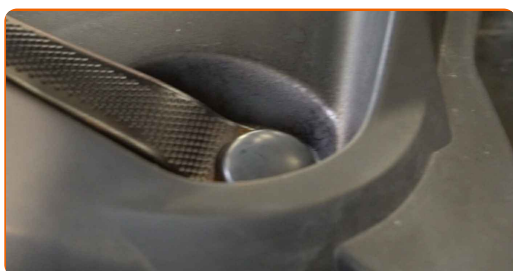
75 Tighten the fasteners of the wiper arms. Use a drive socket #14. Use a torque wrench. Tighten it to 28 Nm torque.



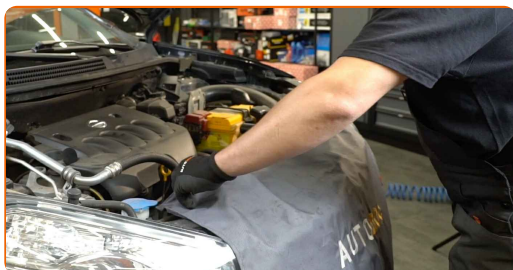
76 Treat the wiper arm fasteners. Use copper grease.



77 Install the nut covers of the windscreen wiper arms.

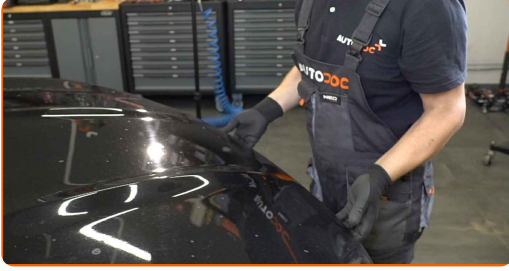


78 Remove the fender protection cover.



79

Close the hood.



WELL DONE! 

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