



How to change front coil  
springs 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

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The steps may slightly vary depending on the car design.

**REPLACEMENT: COIL SPRINGS – 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: coil springs – Nissan Qashqai J10. AUTODOC recommends:

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

## REPLACEMENT: COIL SPRINGS – 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.



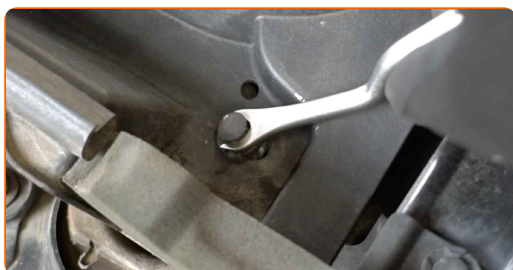
**4** Unscrew the fasteners of the windscreen wiper arms. Use a drive socket #14. Use a ratchet wrench.



**5** Remove the wiper arms. Use a universal puller.



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

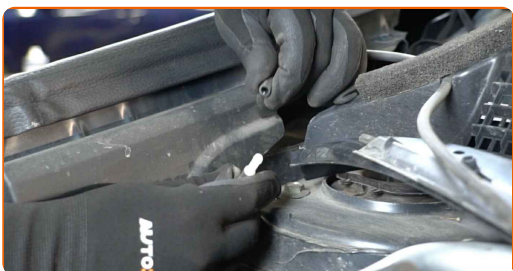


**7**

Raise up and remove the cowl grille.

**8**

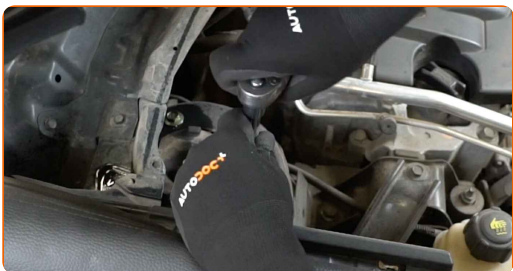
Detach the windscreen washer nozzle hose.

**9**

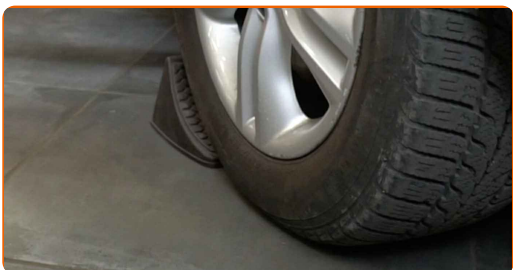
Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.

**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.



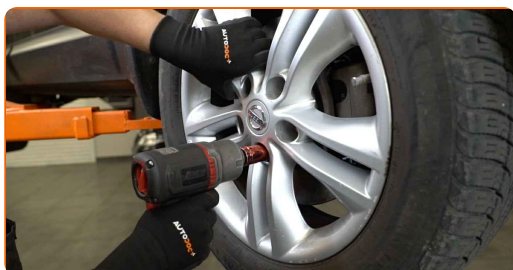
**12** Loosen the wheel mounting bolts. Use wheel impact socket #21.



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



**14** Unscrew the wheel bolts.



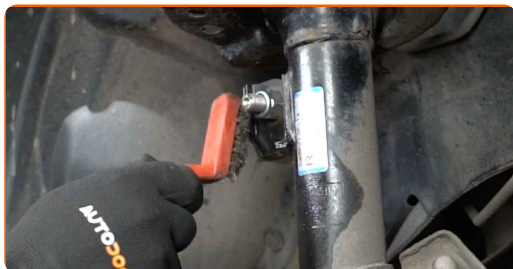
**Replacement: coil springs – Nissan Qashqai J10. Tip:**

- To avoid injury, hold up the wheel when unscrewing the bolts.

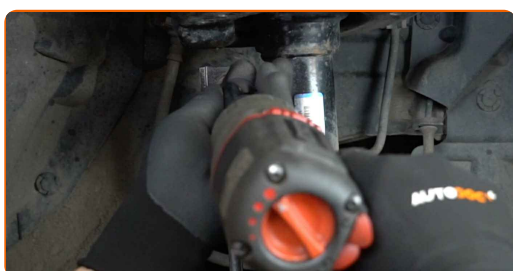
**15** Remove the wheel.



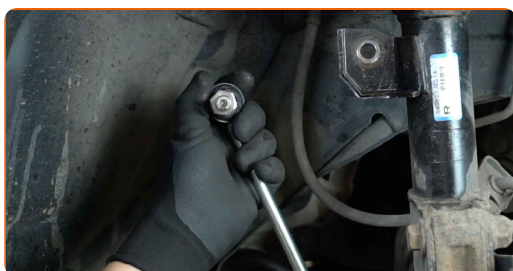
**16** Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



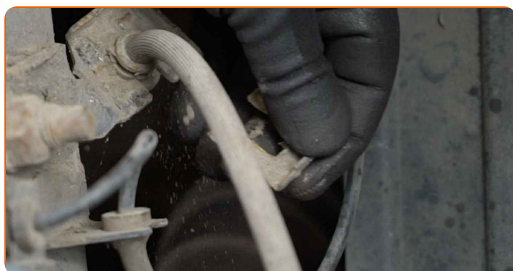
**17** Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #19. Use a ratchet wrench.



**18** Remove the stabilizer rod.

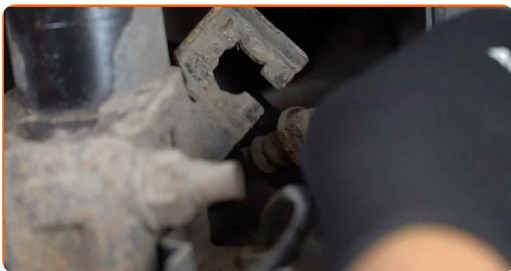


**19** Remove the fastener attaching the brake hose to the shock strut. Use a crowbar.

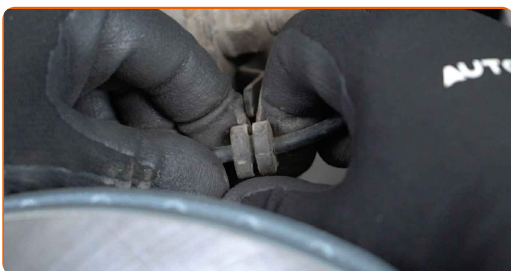




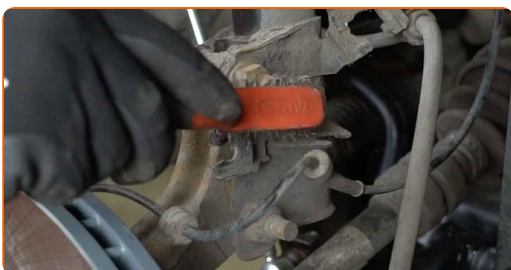
**20** Detach the brake hose from the shock strut.



**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.



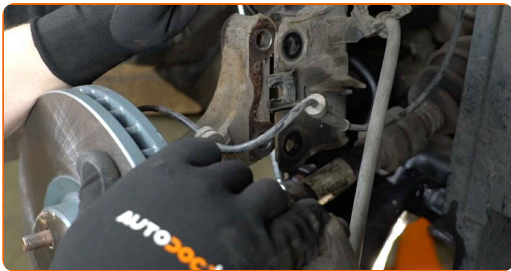
**25**

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.



**Replacement: coil springs – Nissan Qashqai J10. AUTODOC recommends:**

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

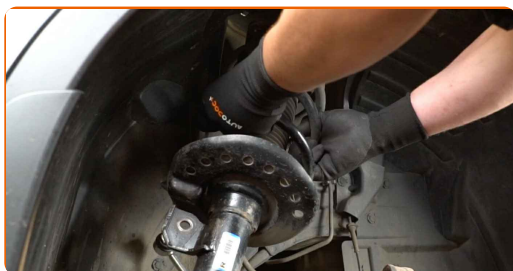
**28** Unscrew the top fastening of the shock strut mount.



Replacement: coil springs – Nissan Qashqai J10. Tip from AUTODOC:

- 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.

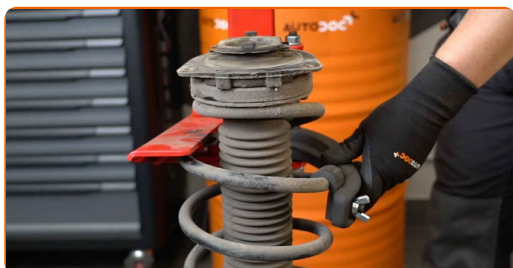


Replacement: coil springs – Nissan Qashqai J10. Tip:

- 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.

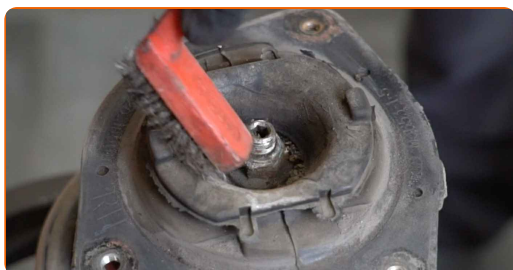
31

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.

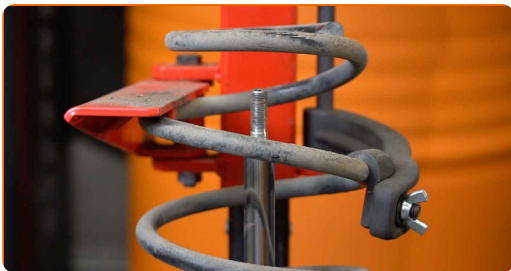


Replacement: coil springs – Nissan Qashqai J10. AUTODOC experts recommend:

- Thoroughly examine the shock absorber mount, dust boot, bump stop. Replace them if necessary.

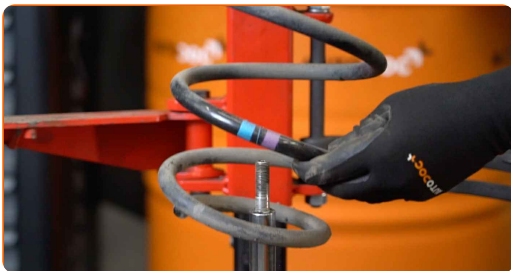
**35**

Release the coil spring.



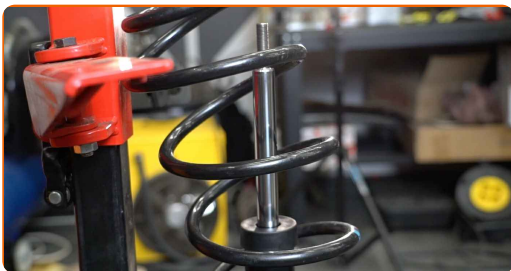
**36**

Remove the spring.



**37**

Install the spring on the shock absorber.



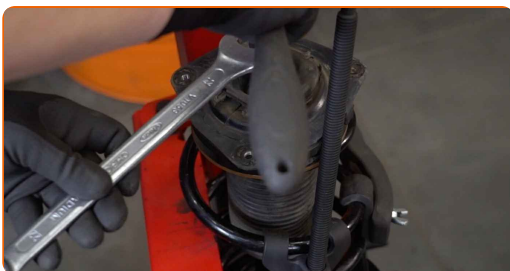
**38** Compress the spring.



**39** Install the mount, the boot and the bump stop on the shock absorber.



**40** 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: coil springs – Nissan Qashqai J10. Professionals recommend:

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

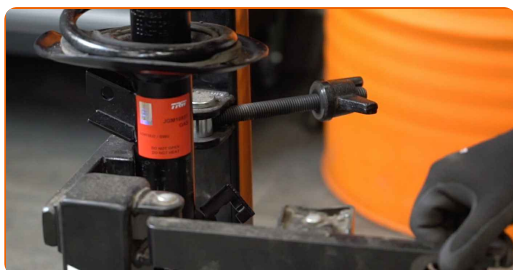
**41** Decompress the spring.



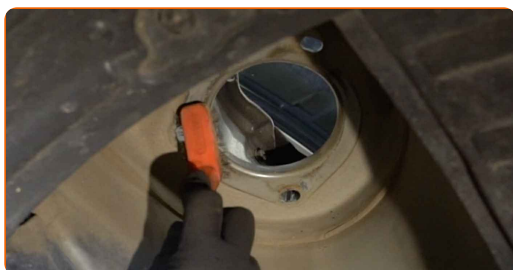
**42** Treat the shock strut rod. Use copper grease.



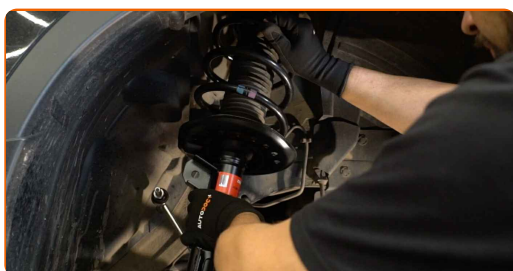
**43** Remove the assembled shock strut.



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

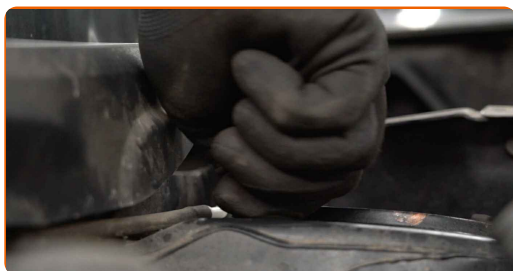


**45** Install the shock strut into the wheel arch.



46

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

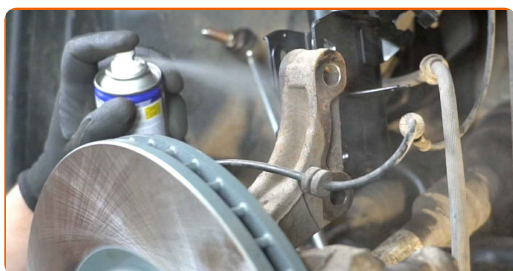


**AUTODOC recommends:**

- Nissan Qashqai J10 – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

47

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

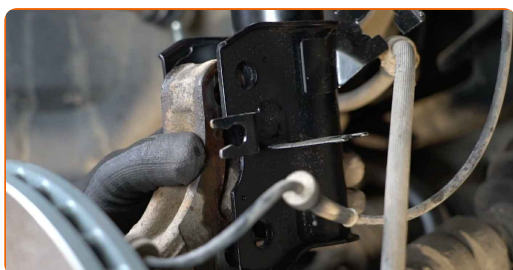


48

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

49

Fix the shock absorber strut on the steering knuckle.

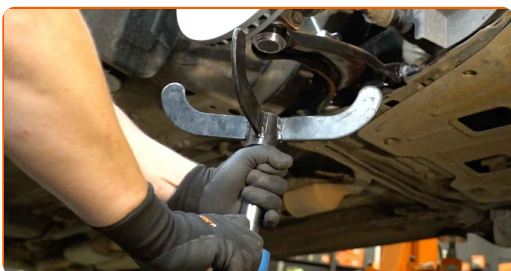




**50** Install the fastening bolts.



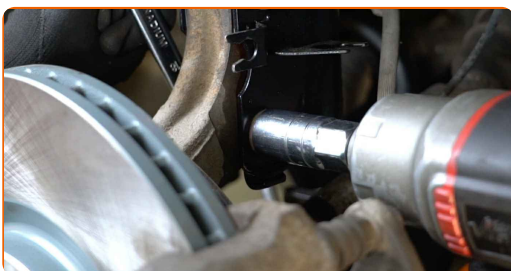
**51** Remove the support from under the steering knuckle.



**AUTODOC recommends:**

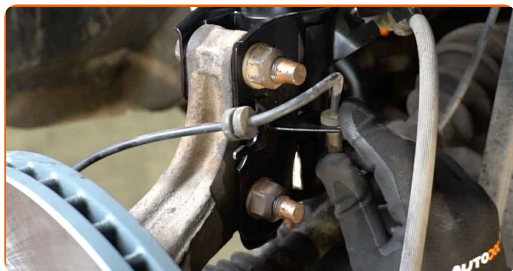
- Nissan Qashqai J10 – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

**52** 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.



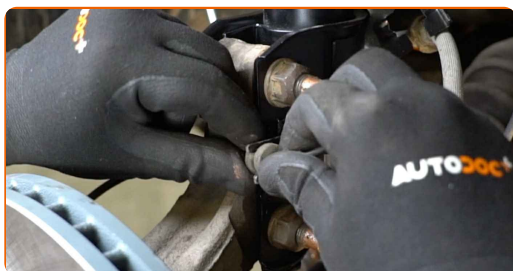
53

Connect the ABS sensor wiring.



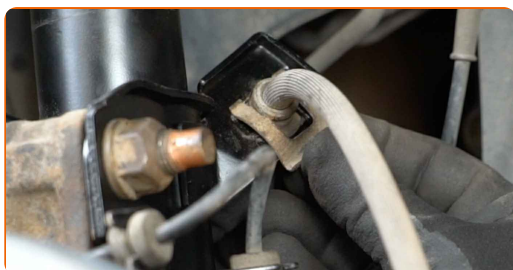
54

Fasten the brake hose on the strut.



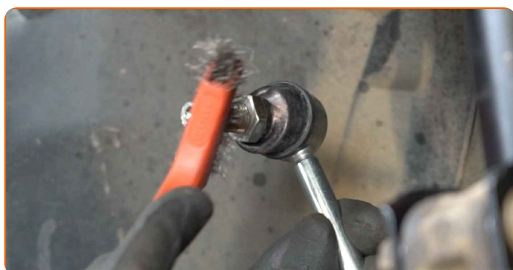
55

Install the brake hose retaining clip. Use a hammer.



56

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



57

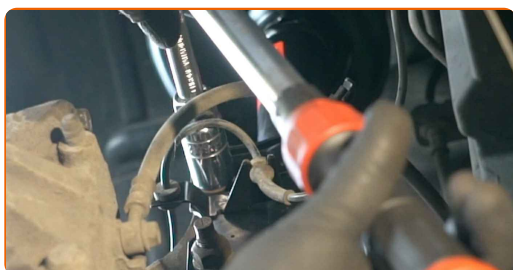
Install the transverse stabilizer link.



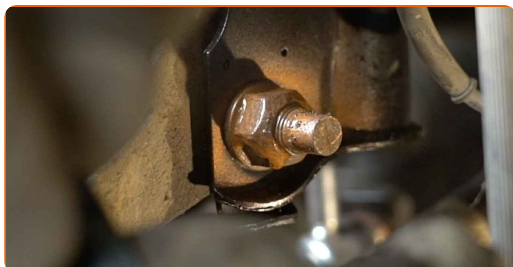
- 58 Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #19. Use a torque wrench. Tighten it to 65 Nm torque.



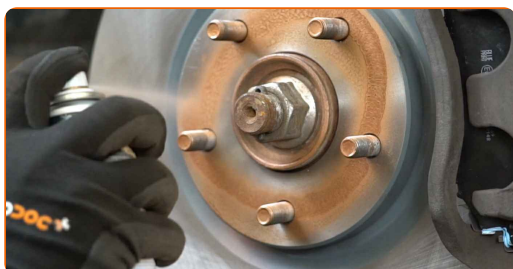
- 59 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #21. Use a torque wrench. Tighten it to 168 Nm torque.



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

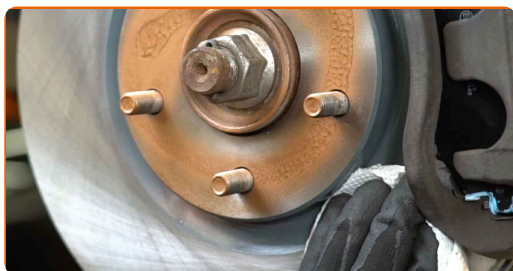


- 61 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



62

Clean the brake disk surface. Use a brake cleaner.



Replacement: coil springs – Nissan Qashqai J10. Tip:

- After applying the spray, wait a few minutes.

63

Install the wheel.



AUTODOC recommends:

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

64

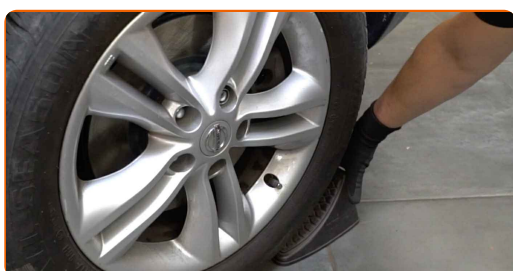
Screw in the wheel bolts. Use wheel impact socket #21.



**65** 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.



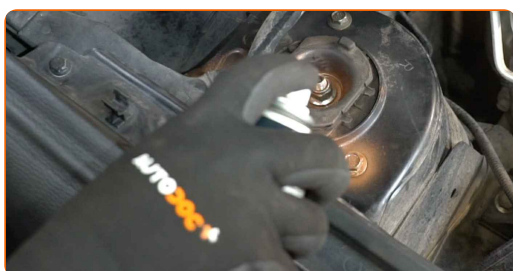
**66** Remove the jacks and chocks.



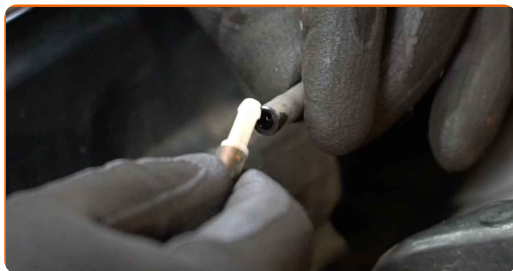
**67** Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 15 nm torque.



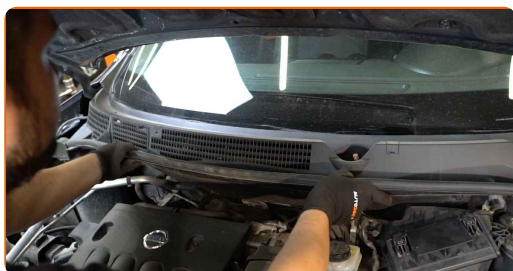
**68** Treat the fasteners of the shock strut mount. Use copper grease.



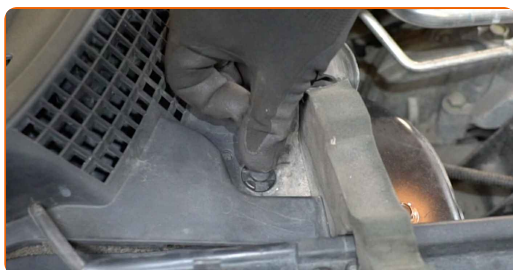
**69** Attach the windscreen washer nozzle hose.



**70** Install and secure the cowl grille.



**71** Install the fasteners of the wiper plastic cowl grille.



**72** Reinstall the wiper arms.



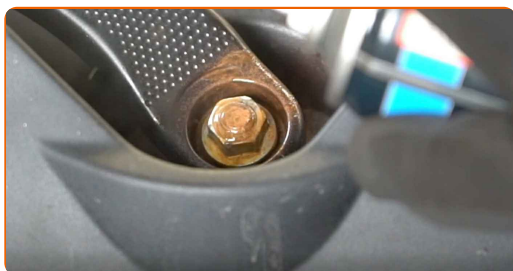
Replacement: coil springs – Nissan Qashqai J10. AUTODOC recommends:

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

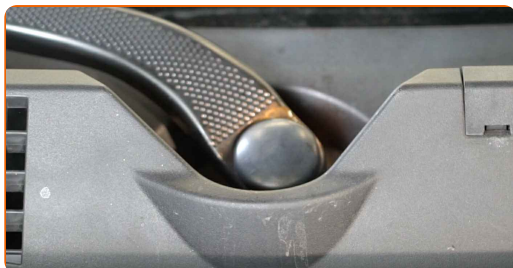
**73** Tighten the fasteners of the wiper arms. Use a drive socket #14. Use a torque wrench. Tighten it to 28 Nm torque.



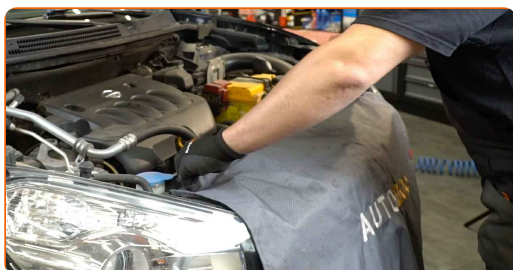
**74** Treat the wiper arm fasteners. Use copper grease.



**75** Install the nut covers of the windscreen wiper arms.

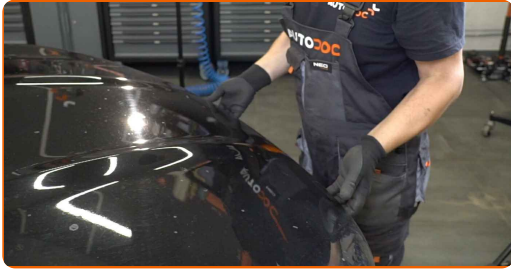


**76** Remove the fender protection cover.



77

Close the hood.



**WELL DONE!** 

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