



How to change rear coil  
springs on **Lexus RX**  
**XU30** – replacement  
guide

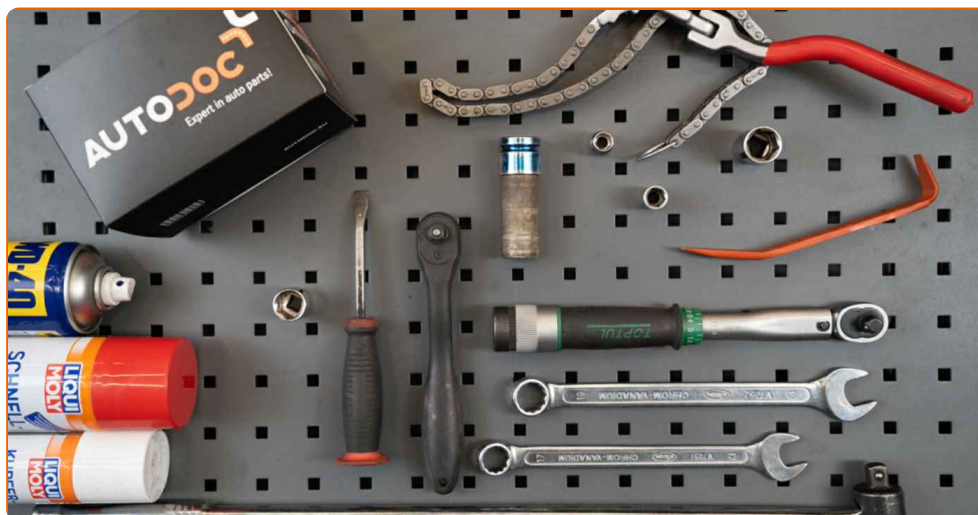
## VIDEO TUTORIAL

 **Important!**

This replacement procedure can be used for:  
LEXUS RX II (XU30) 330 (MCU38\_)

The steps may slightly vary depending on the car design.

**REPLACEMENT: COIL SPRINGS – LEXUS RX XU30.  
TOOLS YOU MIGHT NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #17
- Combination spanner #19
- Drive socket # 10
- Drive socket # 12
- Drive socket # 14
- Drive socket # 17
- Drive socket # 19
- Wheel impact socket #21
- Ratchet wrench
- Torque wrench
- Plastic trim tool
- Chain wrench
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Wheel chock

**BUY TOOLS**

### Replacement: coil springs – Lexus RX XU30. AUTODOC recommends:

- Both coil springs of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the rear suspension.
- All work should be done with the engine stopped.

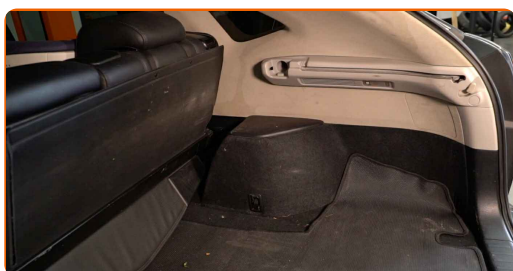
## REPLACEMENT: COIL SPRINGS – LEXUS RX XU30. TAKE THE FOLLOWING STEPS:

**1**

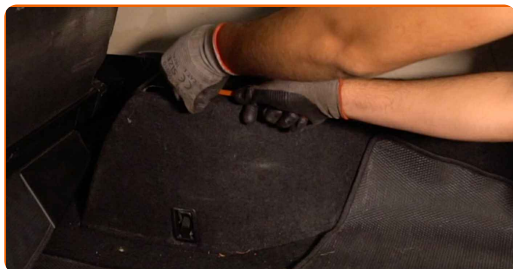
Open the boot lid.

**2**

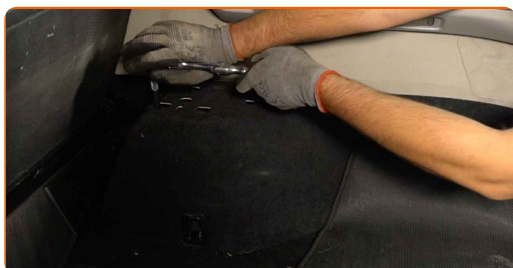
Move the folding shelf and detach it from the retainers. By doing this, you will get access to the side trim plastic panels.



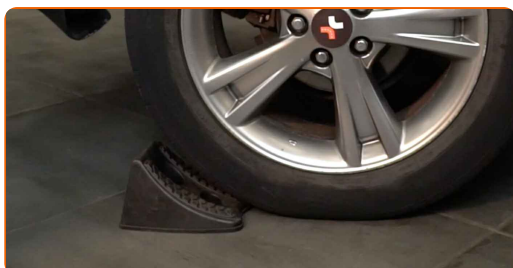
**3** Remove the suspension strut mount cap. Use a plastic trim tool.



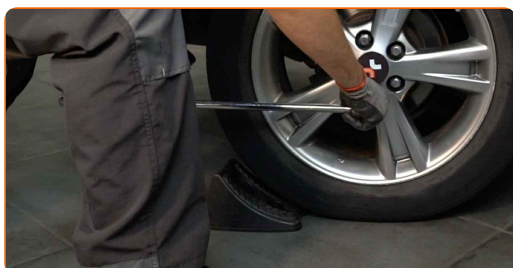
**4** Loosen the upper fastener of the shock strut mount. Use a drive socket #14. Use a ratchet wrench.



**5** Secure the wheels with chocks.



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



**7** Raise the rear of the car and secure on supports.



**8** Unscrew the wheel bolts.



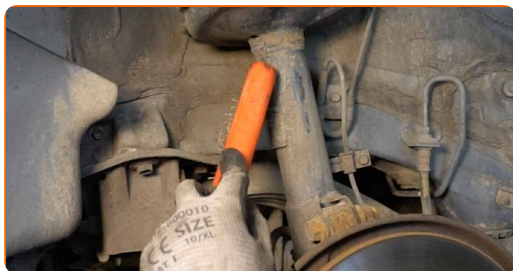
**AUTODOC recommends:**

- Important! Hold the wheel while unscrewing the fastening bolts. Lexus RX XU30

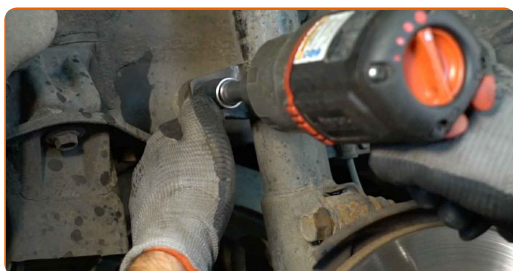
**9** Remove the wheel.



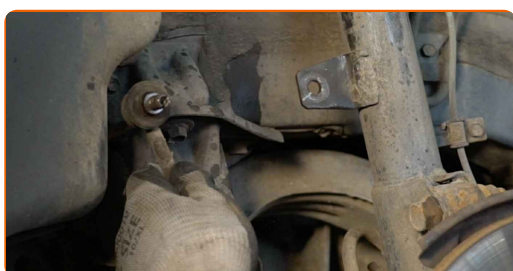
**10** Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



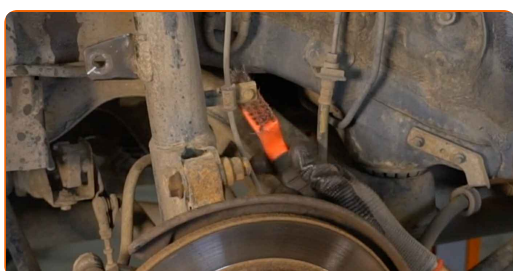
- 11** Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a ratchet wrench.



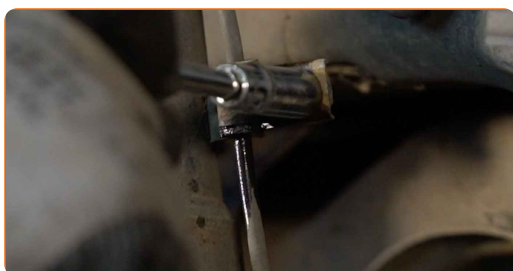
- 12** Remove the stabilizer rod.



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



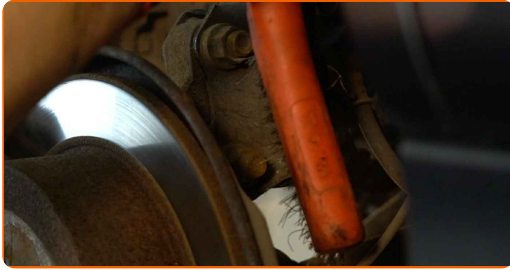
- 14** Unscrew the ABS sensor fastener. Use a drive socket #10. Use a ratchet wrench.





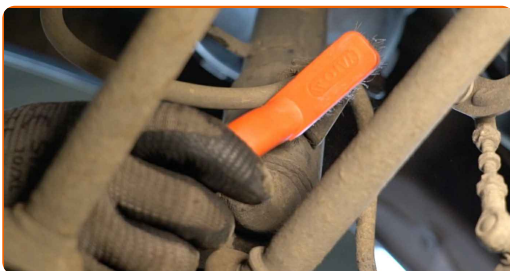
**15**

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



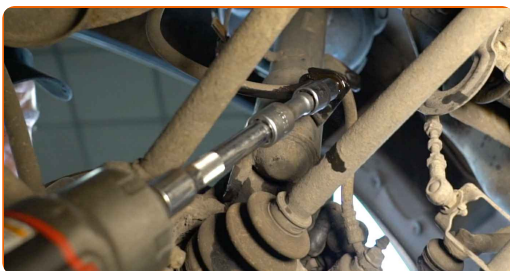
**16**

Clean the fastener of the bracket that connects the brake hose to the shock strut. Use a wire brush. Use WD-40 spray.



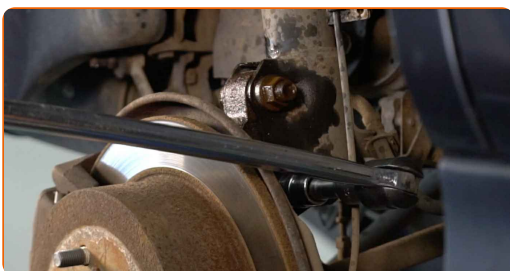
**17**

Unscrew the brake hose fastening bracket from the shock strut. Use a drive socket #12. Use a ratchet wrench.



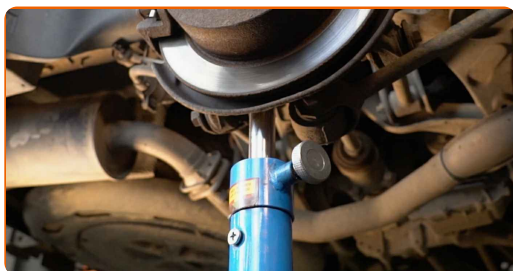
**18**

Loosen the fastener that connects the suspension strut to the rear knuckle. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



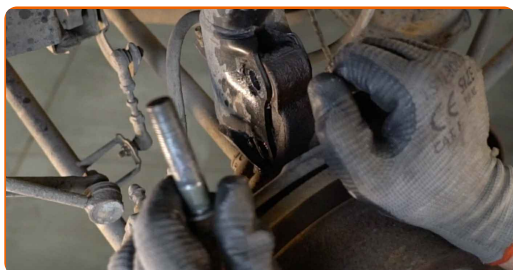


**19** Support the stub axle. Use a hydraulic transmission jack.

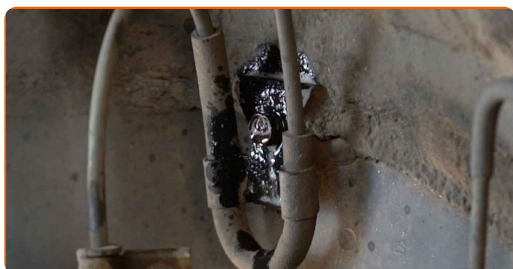


**20** Unscrew the fastener that connects the suspension strut to the rear knuckle. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.

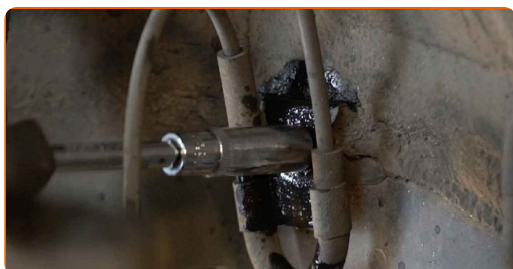
**21** Remove the fastening bolts.



**22** Clean the ABS sensor fastener. Use WD-40 spray.



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



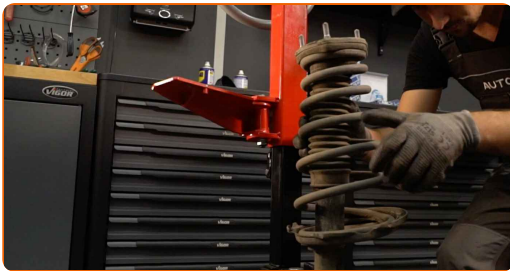
**24** Unscrew the top fastening of the shock strut mount. Use a drive socket #14. Use a ratchet wrench.



**25** Remove the suspension strut.



**26** Set the shock absorber strut on the spring compressor tool.



**Replacement: coil springs – Lexus RX XU30. Professionals 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.

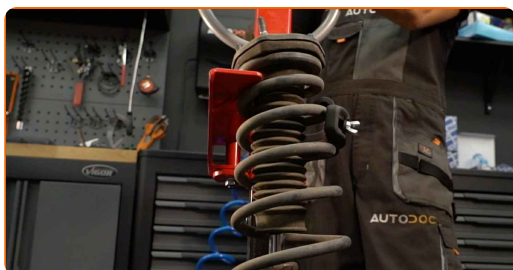
**27** Compress the spring.



**28** Remove the strut piston rod nut. Use a chain wrench. Use a drive socket #19. Use a ratchet wrench.



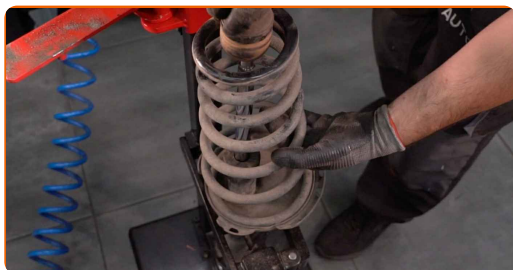
**29** Release the coil spring.



**30** Remove the top strut mount.



**31** Remove the shock absorber dust cap and the bump stop.

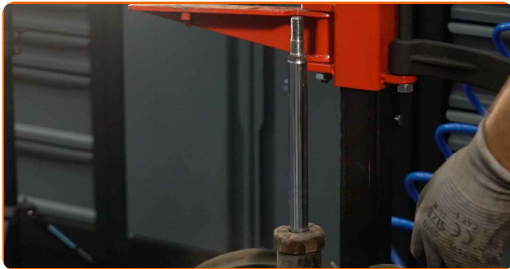


**AUTODOC recommends:**

- Replacement: coil springs – Lexus RX XU30. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

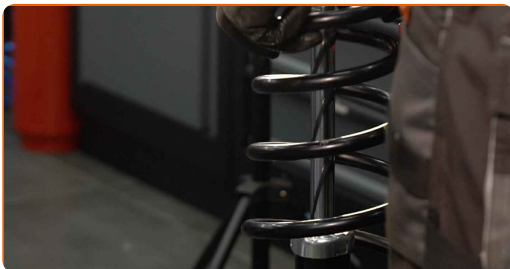
**32**

Remove the spring.



**33**

Install the spring on the shock absorber.

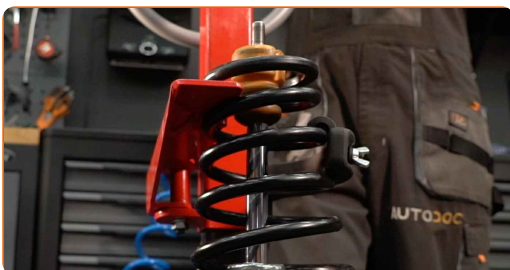


**34**

Install the boot and a bump stop onto the shock absorber.

**35**

Compress the spring.



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



**37** Tighten the shock strut piston rod nut. Use a chain wrench. Use a drive socket #19. Use a torque wrench. Tighten it to 60 Nm torque.



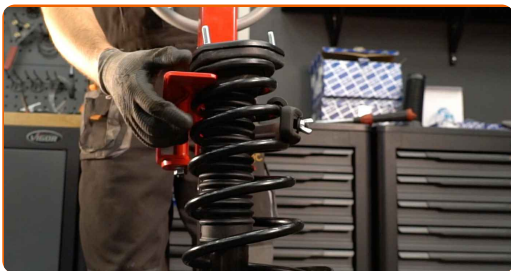
**Replacement: coil springs – Lexus RX XU30. Tip from AUTODOC:**

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

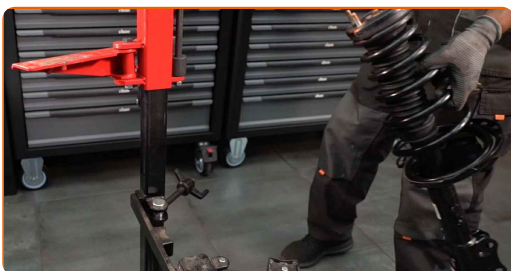
**38** Treat the shock strut rod. Use copper grease.



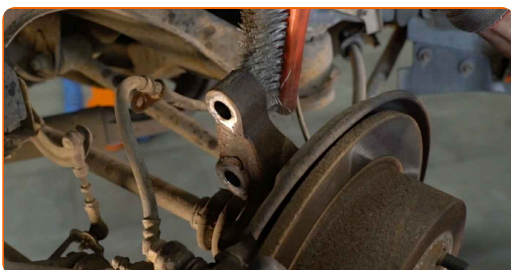
**39** Decompress the spring.



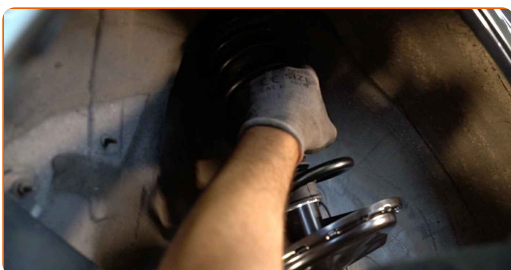
**40** Remove the assembled shock strut.



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



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



**43** Screw the top fastening of the shock strut mount. Use a drive socket #14. Do not tighten it.



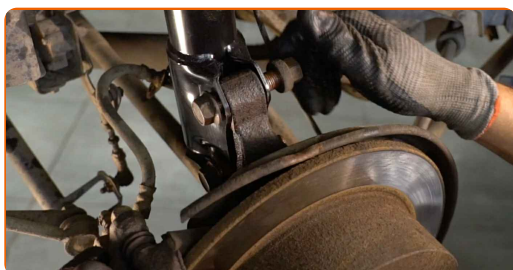


**AUTODOC recommends:**

- Lexus RX XU30 – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

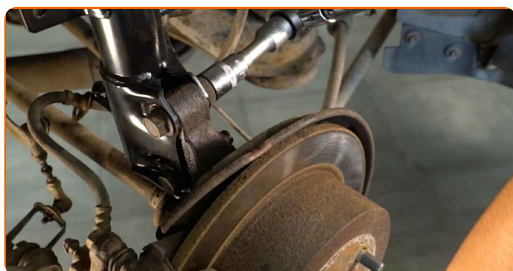
**44**

Install the fastening bolts.



**45**

Tighten the fastener that connects the suspension strut to the rear knuckle. Use a drive socket #19. Use a torque wrench. Tighten it to 180 Nm torque.



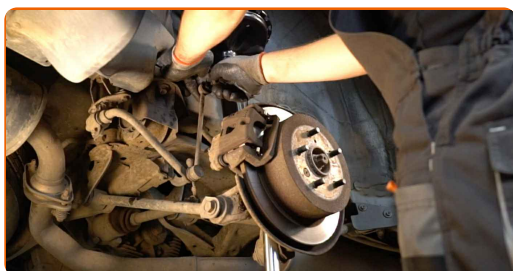
**46**

Screw in the ABS sensor fastener. Use a drive socket #10. Use a ratchet wrench.



**47**

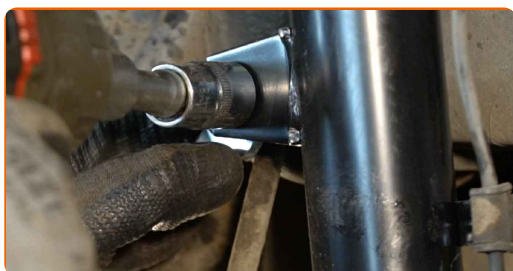
Install the transverse stabilizer link.





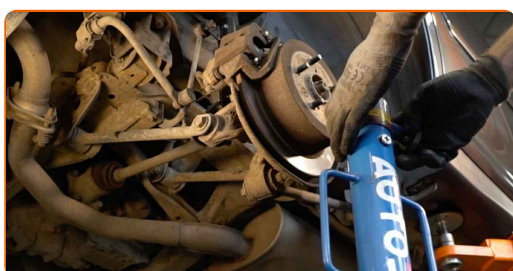
48

Tighten the stabiliser link fastener. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.



49

Remove the support from under the stub axle.

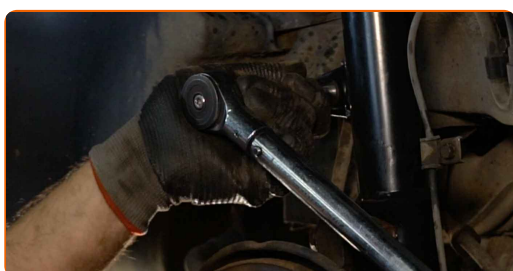


Replacement: coil springs – Lexus RX XU30. AUTODOC experts recommend:

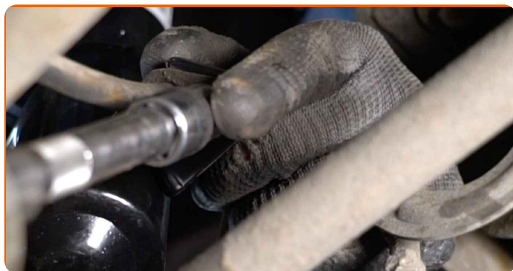
- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

50

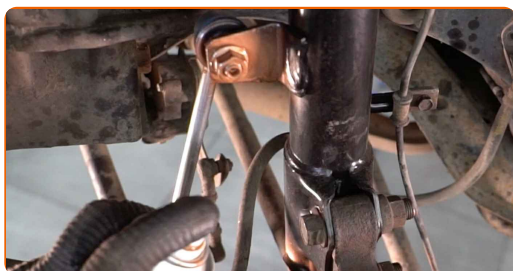
Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a torque wrench. Tighten it to 39 Nm torque.



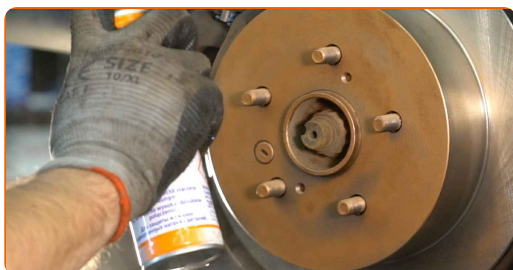
**51** Tighten the brake hose fastening bracket to the shock strut. Use a drive socket #12. Use a ratchet wrench.



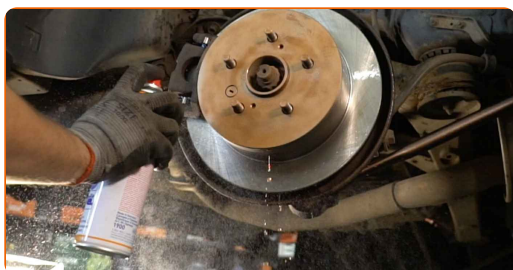
**52** Treat the shock strut fasteners. Use copper grease.



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



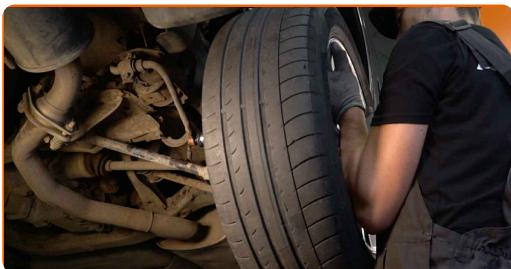
**54** Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: coil springs – Lexus RX XU30. After applying the spray, wait a few minutes.

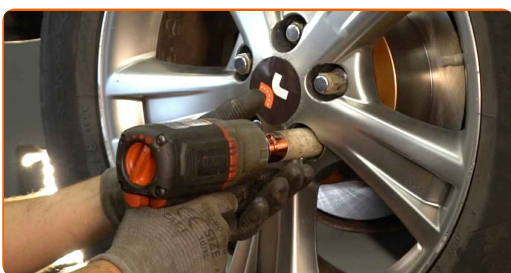
**55** Install the wheel.



Replacement: coil springs – Lexus RX XU30. Tip:

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

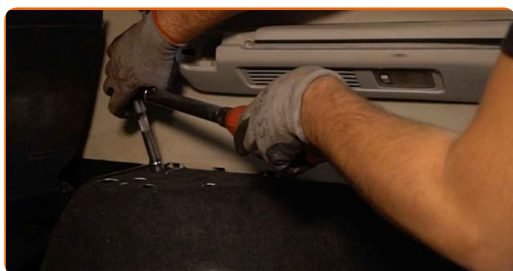
**56** Screw in the wheel bolts. Use wheel impact socket #21.



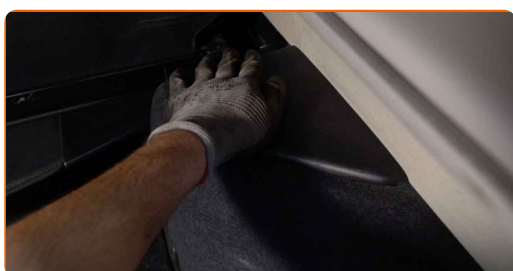
**57** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #21. Use a torque wrench. Tighten it to 103 nm torque.



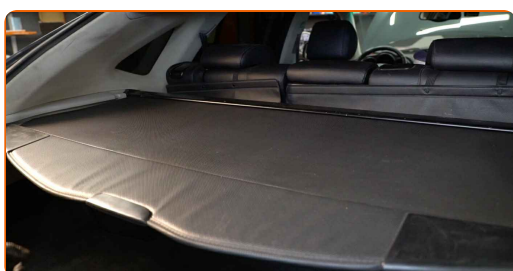
- 58 Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #14. Use a torque wrench. Tighten it to 55 Nm torque.



- 59 Install the suspension strut mount cap.



- 60 Install the folding shelf to its mounting seat.



- 61 Close the lid of the luggage compartment.



62

Remove the jacks and chocks.



**WELL DONE!** 

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