



How to change rear  
suspension strut on  
**Lexus RX XU30** –  
replacement guide

## VIDEO TUTORIAL

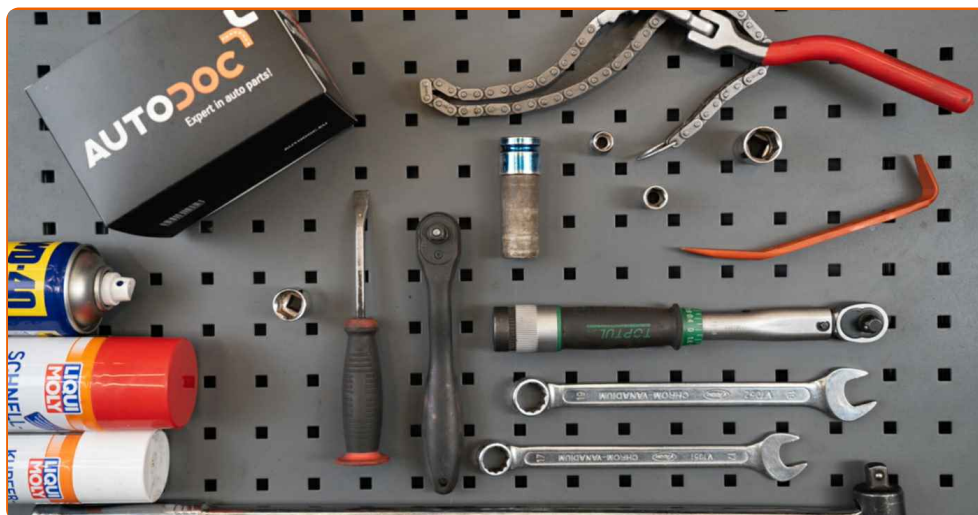
** Important!**

This replacement procedure can be used for:

LEXUS RX II (XU30) 3.5 AWD, LEXUS RX II (XU30) 330 AWD (MCU38)

The steps may slightly vary depending on the car design.

REPLACEMENT: SUSPENSION STRUT – LEXUS RX  
XU30. TOOLS YOU'LL 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: suspension strut – Lexus RX XU30. AUTODOC recommends:

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

## REPLACEMENT: SUSPENSION STRUT – LEXUS RX XU30. USE THE FOLLOWING PROCEDURE:

1

Open the boot lid.

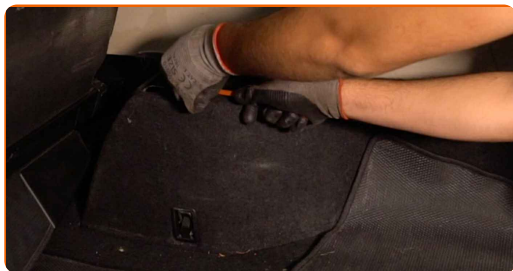


2

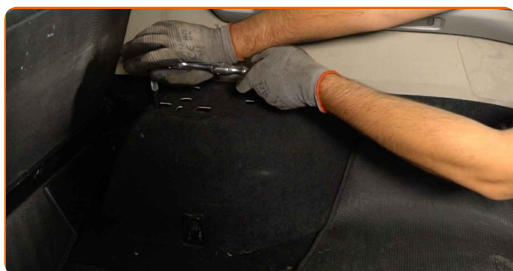
Move the folding shelf and detach it from the retainers. By doing this, you will get access to the side trim plastic panels.



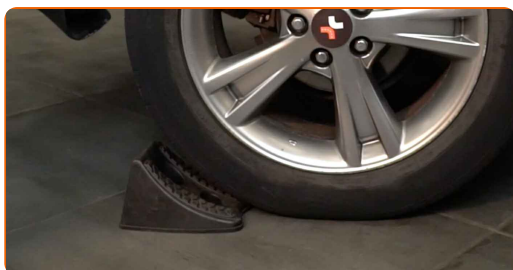
**3** Remove the suspension strut mount cap. Use a plastic trim tool.



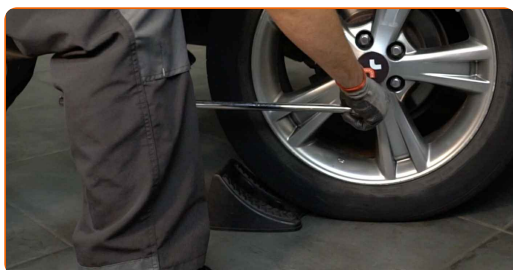
**4** Loosen the upper fastener of the shock strut mount. Use a drive socket #14. Use a ratchet wrench.



**5** Secure the wheels with chocks.



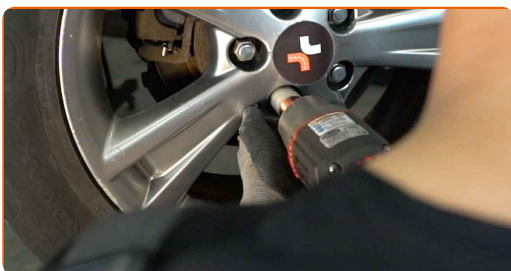
**6** Loosen the wheel mounting bolts. Use wheel impact socket #21.



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



**8** Unscrew the wheel bolts.



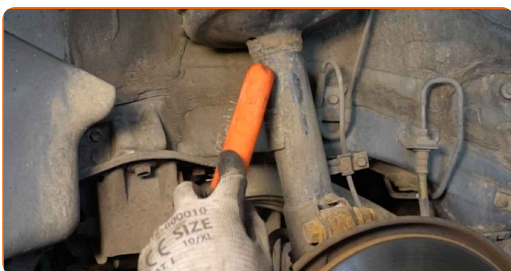
**Replacement: suspension strut – Lexus RX XU30. Tip:**

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

**9** Remove the wheel.

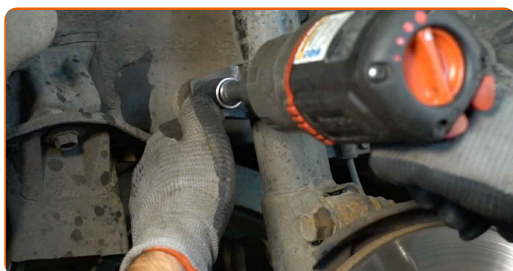


**10** Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



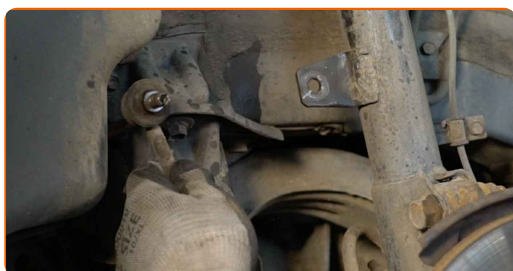
**11**

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



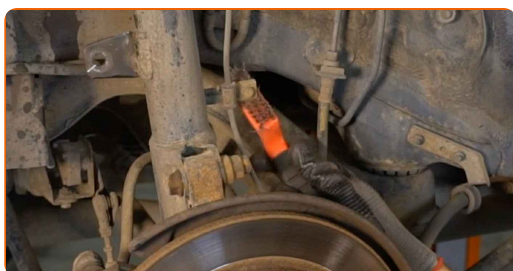
**12**

Remove the stabilizer rod.



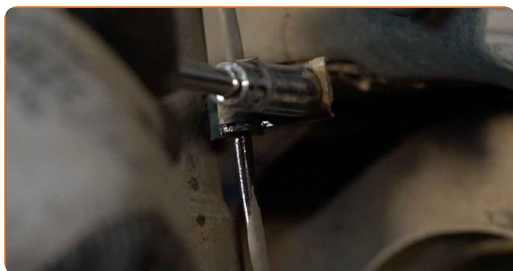
**13**

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

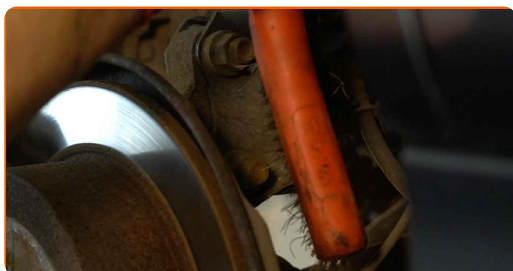


**14**

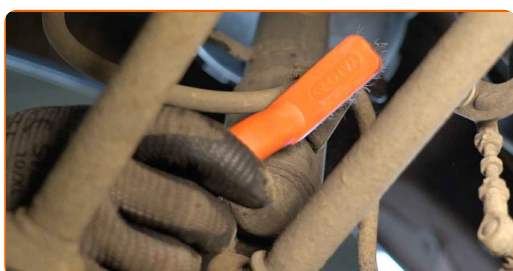
Unscrew the ABS sensor fastener. Use a drive socket #10. Use a ratchet wrench.



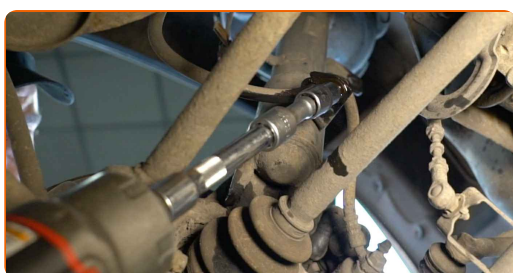
**15** Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



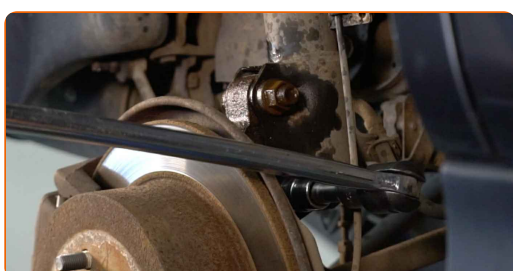
**16** Clean the fastener of the bracket that connects the brake hose to the shock strut. Use a wire brush. Use WD-40 spray.



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

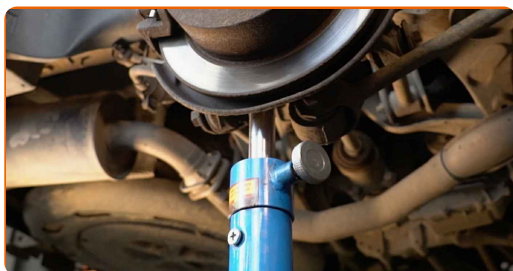


**18** Loosen the fastener that connects the suspension strut to the rear knuckle. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



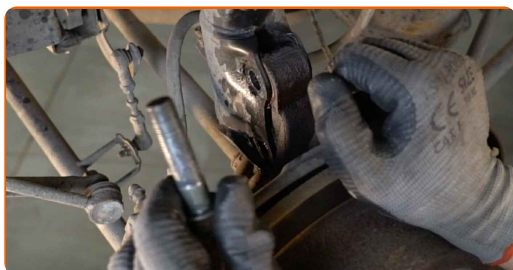


**19** Support the stub axle. Use a hydraulic transmission jack.

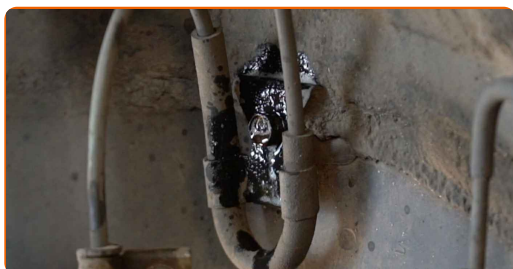


**20** Unscrew the fastener that connects the suspension strut to the rear knuckle. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.

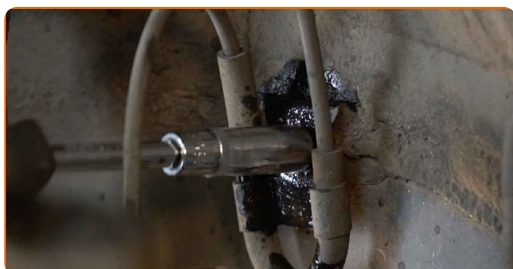
**21** Remove the fastening bolts.



**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.



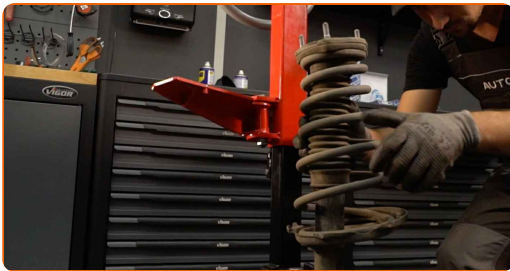
**25**

Remove the suspension strut.



**26**

Set the shock absorber strut on the spring compressor tool.



**Replacement: suspension strut – Lexus RX XU30. 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.

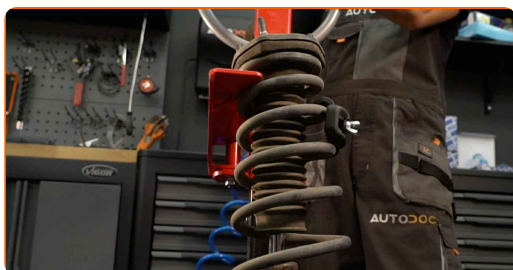
**27** Compress the spring.



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



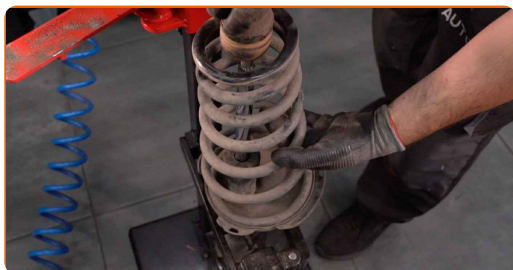
**29** Release the coil spring.



**30** Remove the top strut mount.



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

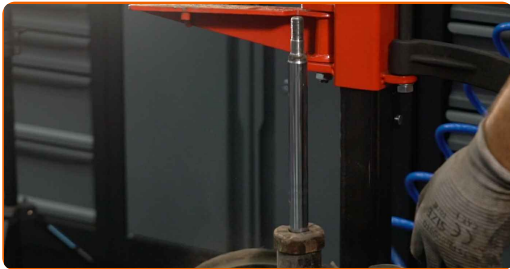


**AUTODOC recommends:**

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

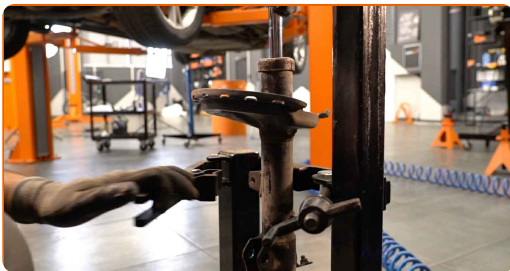
**32**

Remove the spring.



**33**

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



**Replacement: suspension strut – Lexus RX XU30. Tip from AUTODOC:**

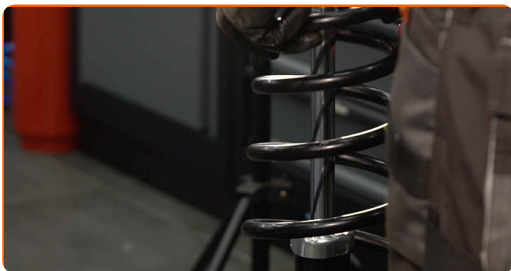
- Before installing a new shock absorber you should pump it manually 3-5 times.

**34**

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

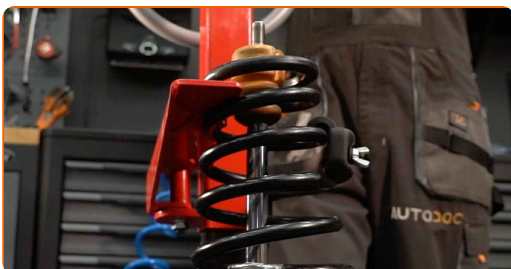


**35** Install the spring on the shock absorber.



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

**37** Compress the spring.



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



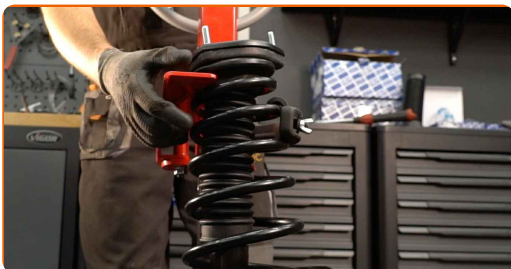
**39** Tighten the shock strut piston rod nut. Use a chain wrench. Use a drive socket #19. Use a torque wrench. Tighten it to 60 Nm torque.



Replacement: suspension strut – Lexus RX XU30. Tip from AUTODOC experts:

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

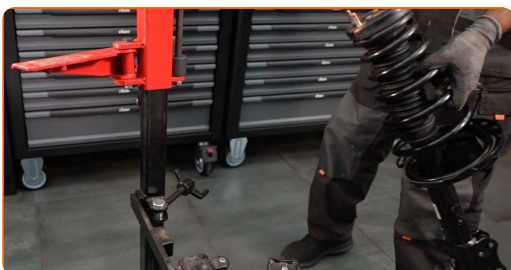
**40** Decompress the spring.



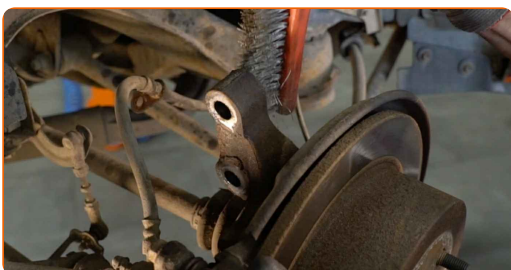
**41** Treat the shock strut rod. Use copper grease.



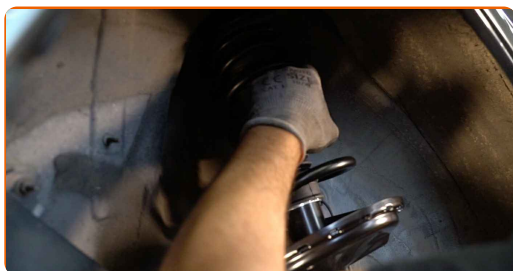
**42** Remove the assembled shock strut.



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



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



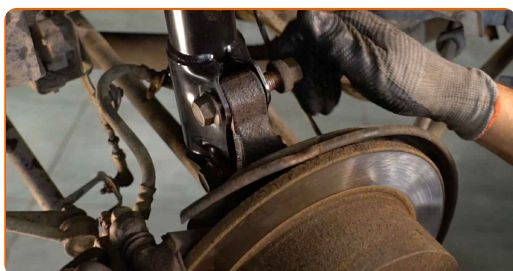
**45** Screw the top fastening of the shock strut mount. Use a drive socket #14. Do not tighten it.



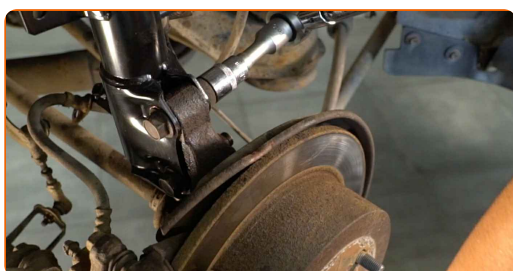
**AUTODOC recommends:**

- Important! Hold the suspension strut while screwing in the fastening bolts. Lexus RX XU30

**46** Install the fastening bolts.



**47** 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.



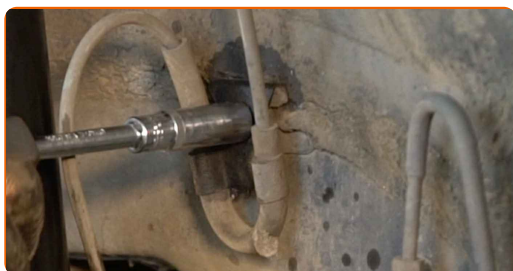
48

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



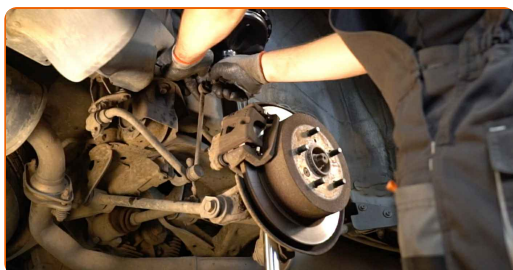
49

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



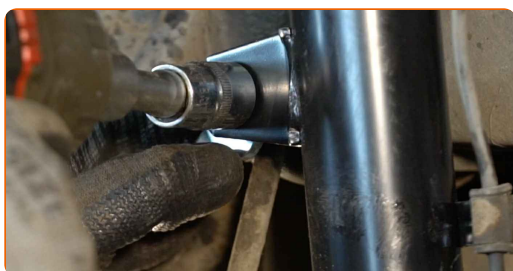
50

Install the transverse stabilizer link.



51

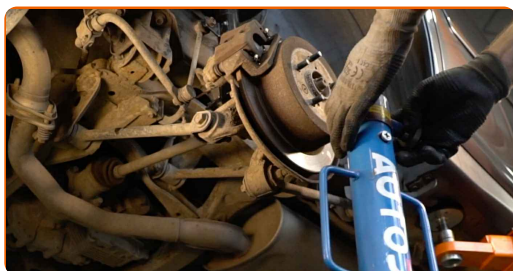
Tighten the stabiliser link fastener. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.





52

Remove the support from under the stub axle.

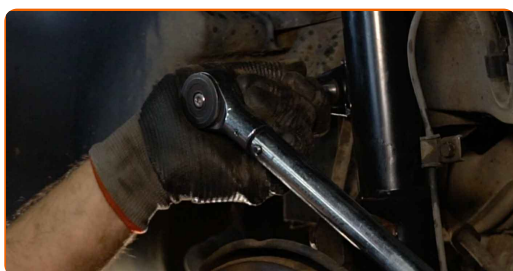


**AUTODOC recommends:**

- Replacement: suspension strut – Lexus RX XU30. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

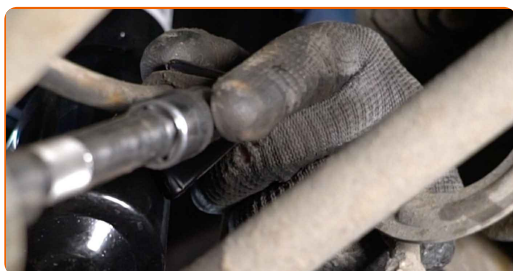
53

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.

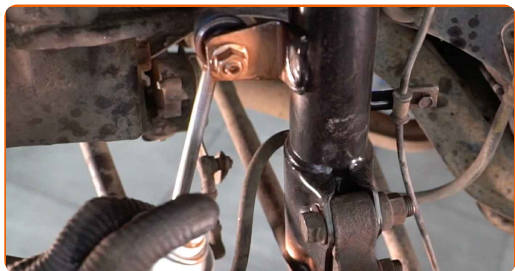


54

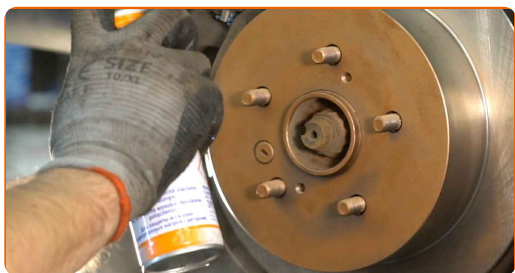
Tighten the brake hose fastening bracket to the shock strut. Use a drive socket #12. Use a ratchet wrench.



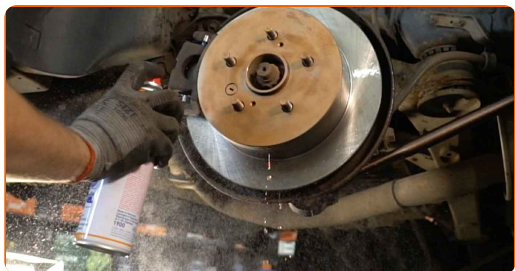
**55** Treat the shock strut fasteners. Use copper grease.



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



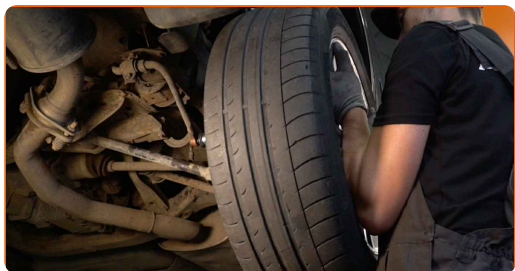
**57** Clean the brake disk surface. Use a brake cleaner.



Replacement: suspension strut – Lexus RX XU30. AUTODOC recommends:

- After applying the spray, wait a few minutes.

**58** Install the wheel.

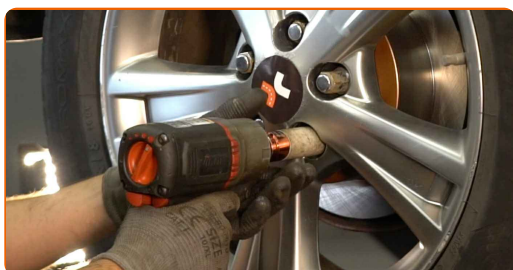


**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Lexus RX XU30

**59**

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



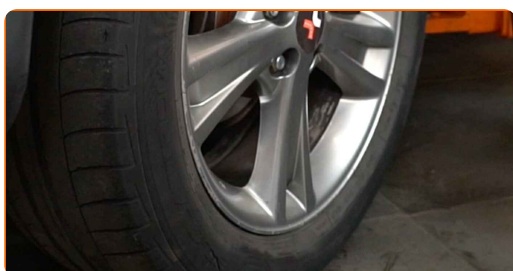
**60**

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.



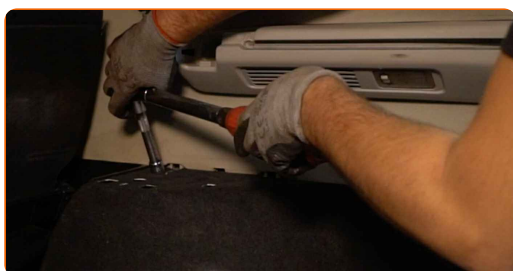
**61**

Remove the jacks and chocks.

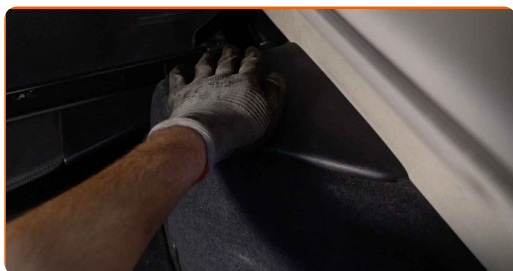


**62**

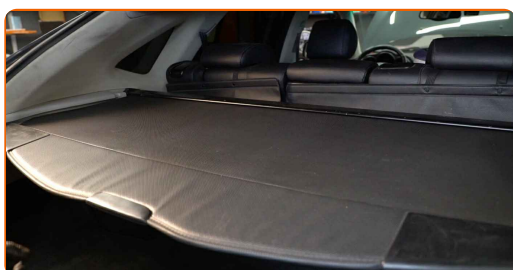
Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #14. Use a torque wrench. Tighten it to 55 Nm torque.



**63** Install the suspension strut mount cap.



**64** Install the folding shelf to its mounting seat.



**65** Close the lid of the luggage compartment.



**WELL DONE!** 

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