



How to change front  
suspension strut on  
**Toyota Prius 2** –  
replacement guide

## VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:  
TOYOTA Prius II Liftback (XW20) 1.5 (NHW2\_)

The steps may slightly vary depending on the car design.

**REPLACEMENT: SUSPENSION STRUT – TOYOTA PRIUS**  
**2. TOOLS YOU 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
- HEX bit no.H6.
- Wheel impact socket #21
- Ratchet wrench
- Torque wrench
- Tap wrench
- Crow bar
- Chain wrench
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

**BUY TOOLS**

### Replacement: suspension strut – Toyota Prius 2. Tip from AUTODOC:

- 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 – TOYOTA PRIUS 2. RECOMMENDED SEQUENCE OF STEPS:

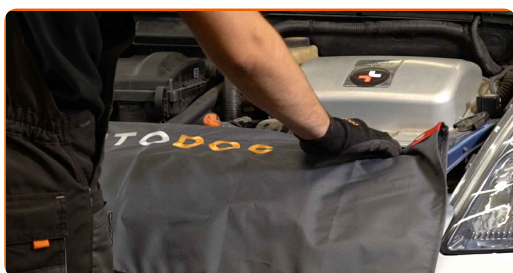
1

Open the bonnet.



2

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



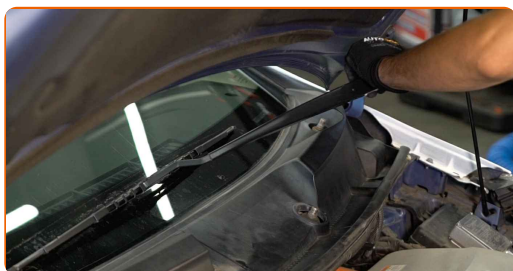
3

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



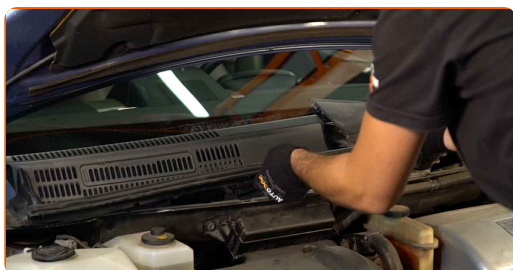
4

Remove the wiper arms.



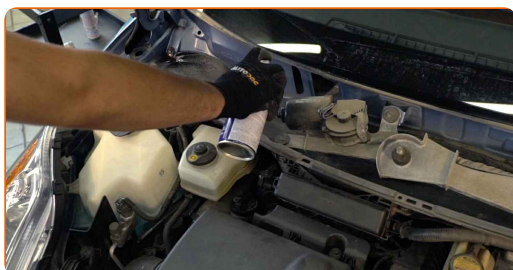
5

Remove the wiper arm covers.



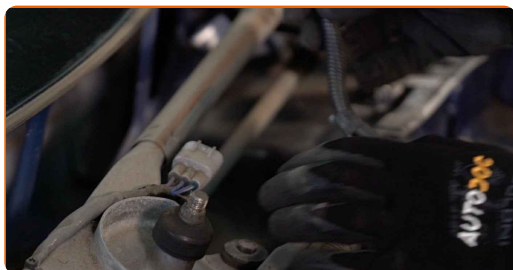
6

Treat the fasteners of the windscreen wiper linkage. Use WD-40 spray.

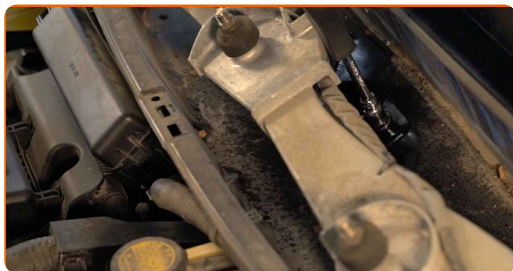


7

Detach the windscreen wiper connector.



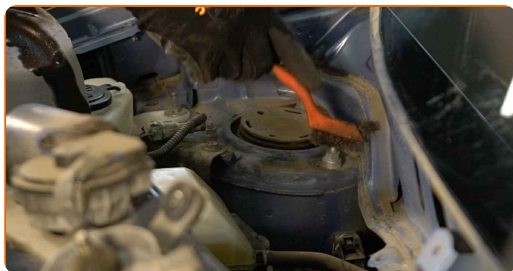
**8** Unscrew the fasteners of the windscreen wiper linkage panel. Use a drive socket #10. Use a ratchet wrench.



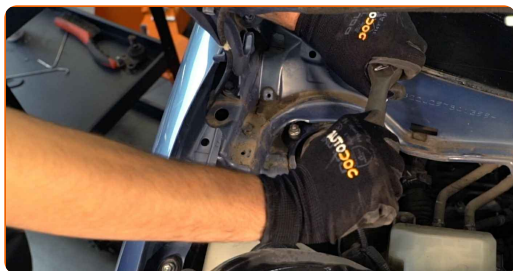
**9** Remove the panel assembled with the windscreen wiper linkage.



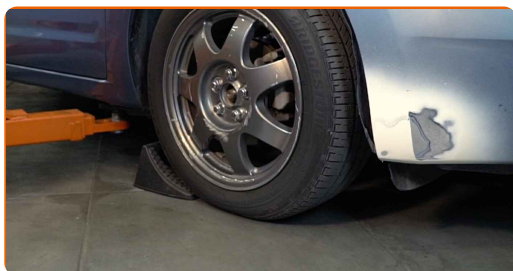
**10** Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.



**11** Loosen the upper fastener of the shock strut mount. Use a drive socket #12. Use a ratchet wrench.



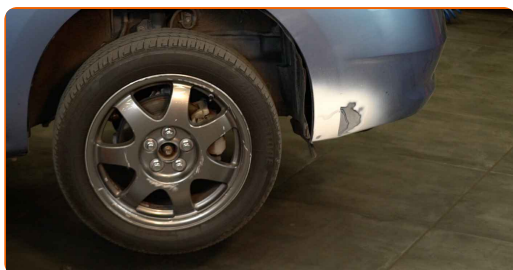
**12** Secure the wheels with chocks.



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



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



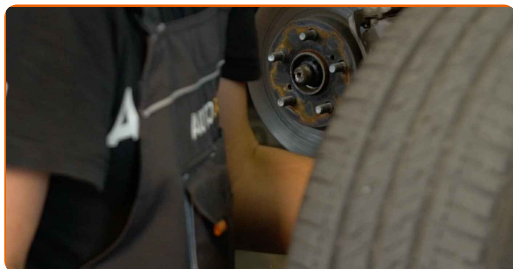
**15** Unscrew the wheel bolts.



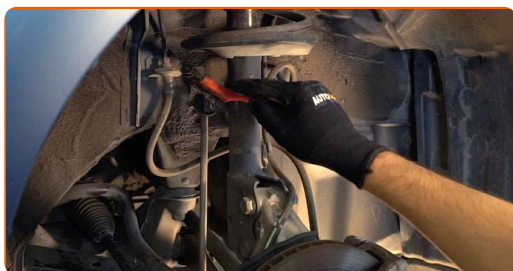
**Replacement: suspension strut – Toyota Prius 2. Tip:**

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

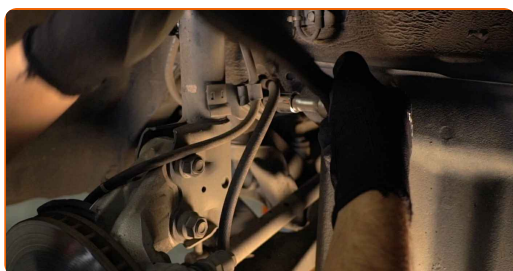
**16** Remove the wheel.



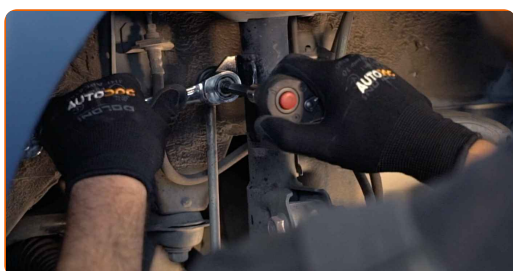
**17** Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



**18** Disconnect the wiring and the brake hose from the bracket on the shock strut. Use a drive socket #12. Use a ratchet wrench.



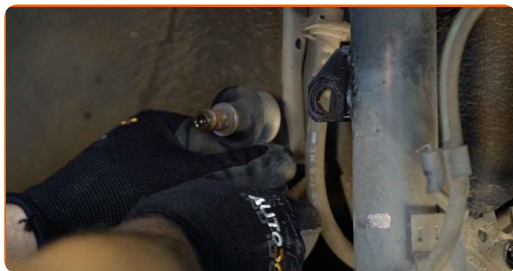
**19** Unscrew the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #17. Use HEX No.H6. Use a ratchet wrench.





20

Remove the stabilizer rod.

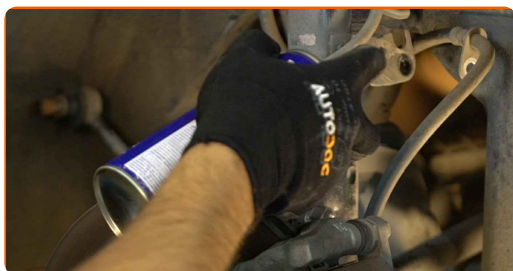


Replacement: suspension strut – Toyota Prius 2. AUTODOC recommends:

- Examine stabiliser bushes. Replace them if needed.

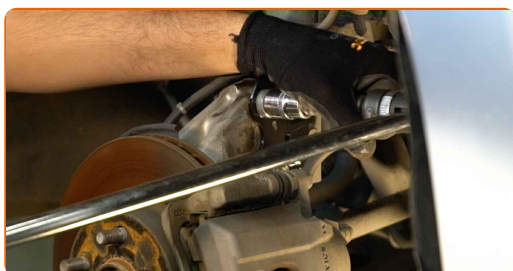
21

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

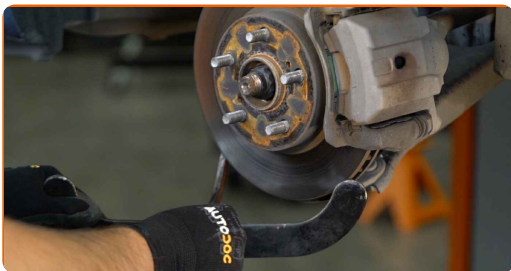


22

Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #19. Use a drive socket #19. Use a tap wrench.



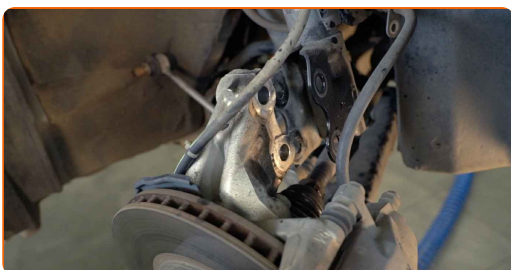
**23** Prop up the steering knuckle. Use a hydraulic transmission jack.



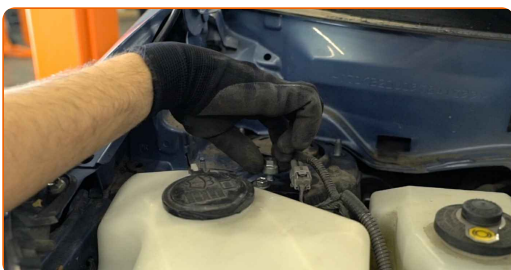
**24** Remove the fastening bolts.



**25** Disconnect the steering knuckle from the shock absorber strut.



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

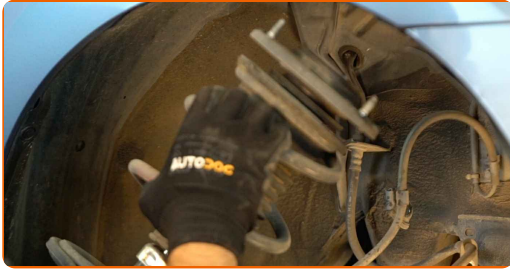


**AUTODOC recommends:**

- Important! Hold the suspension strut while unscrewing the fastening bolts.  
Toyota Prius 2

27

Remove the suspension strut.



28

Set the shock absorber strut on the spring compressor tool.



**Replacement: suspension strut – Toyota Prius 2. Tip from AUTODOC experts:**

- 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.

29

Compress the spring.



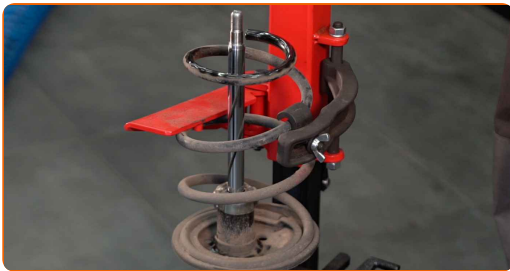
**30** Remove the shock strut mount cap. Use a crowbar.



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



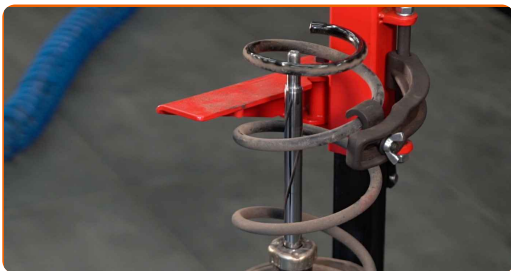
**32** Remove the shock absorber mount, boot and bump stop. Use a crowbar.



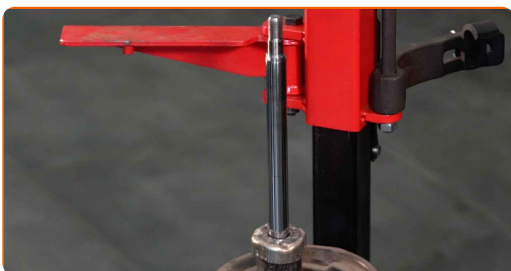
**Replacement: suspension strut – Toyota Prius 2. AUTODOC recommends:**

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

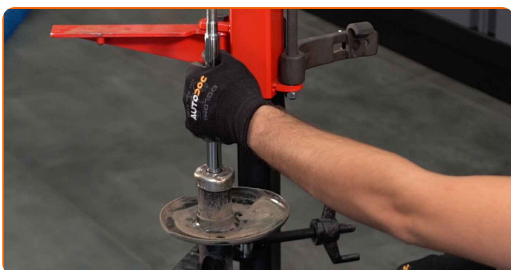
**33** Release the coil spring.



**34** Remove the spring.



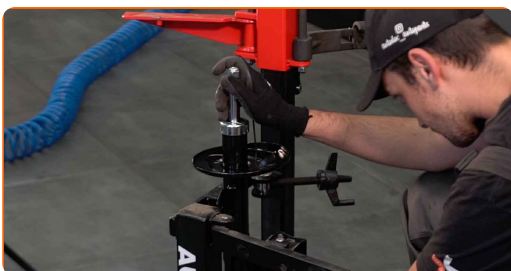
**35** Remove the old shock absorber from the hydraulic coil spring compressor.



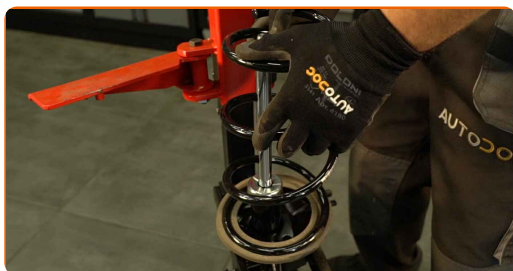
**Replacement: suspension strut – Toyota Prius 2. Professionals recommend:**

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

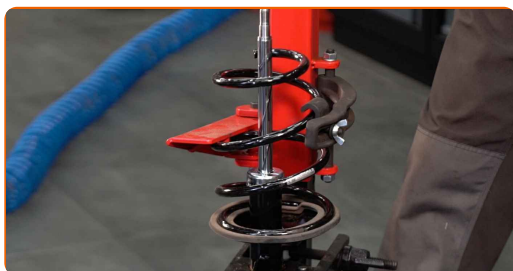
**36** Install the new shock absorber on the hydraulic coil spring compressor.



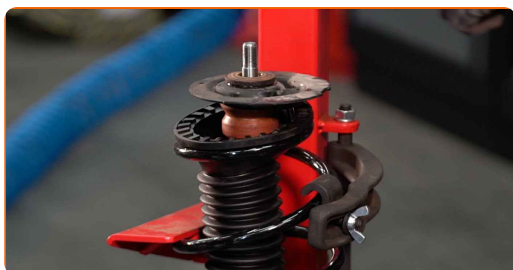
**37** Install the spring on the shock absorber.



**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 a drive socket #19. Use a chain wrench. Use a torque wrench. Tighten it to 47 Nm torque.



Replacement: suspension strut – Toyota Prius 2. AUTODOC experts recommend:

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

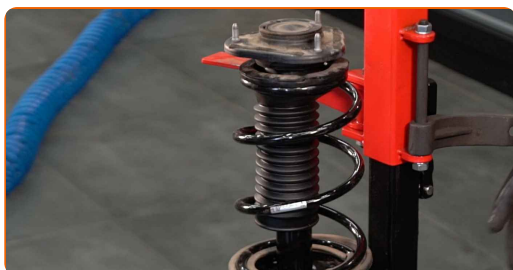
**41** Treat the shock strut rod. Use copper grease.



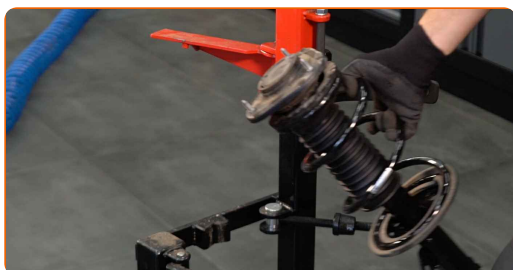
**42** Install the shock strut mount cap.



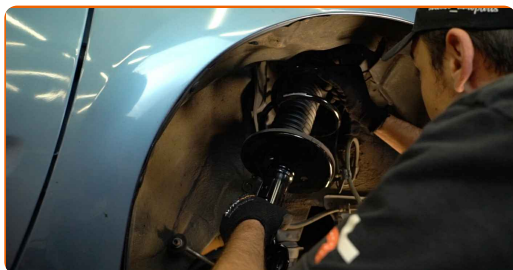
**43** Decompress the spring.



**44** Remove the assembled shock strut.



**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:**

- Important! Hold the suspension strut while screwing in the fastening bolts.  
Toyota Prius 2

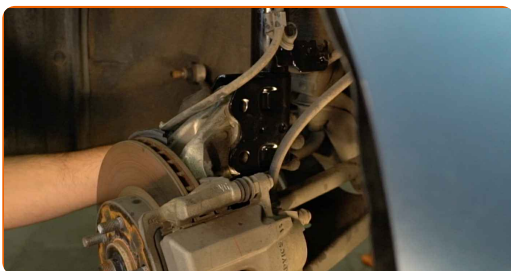
47

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



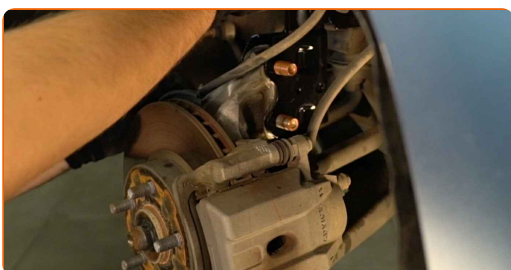
48

Fix the shock absorber strut on the steering knuckle.



49

Install the fastening bolts.





**50**

Remove the support from under the steering knuckle.

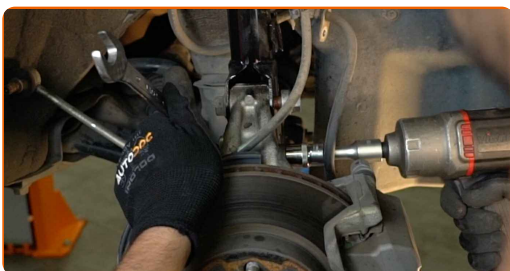


**AUTODOC recommends:**

- Toyota Prius 2 – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

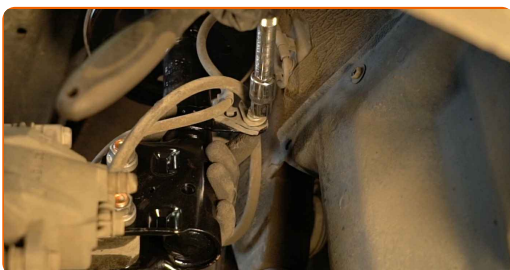
**51**

Screw in the fastener that connects the shock strut to the steering knuckle. Use a combination spanner #19. Use a drive socket #19.

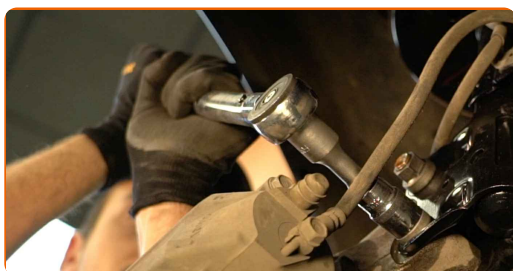


**52**

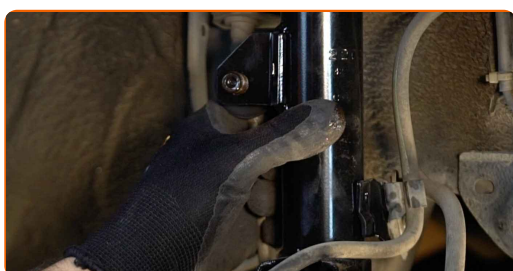
Fasten the brake hose on the strut. Connect the fastener of the ABS sensor cable to the shock absorber strut. Use a drive socket #12. Use a ratchet wrench.



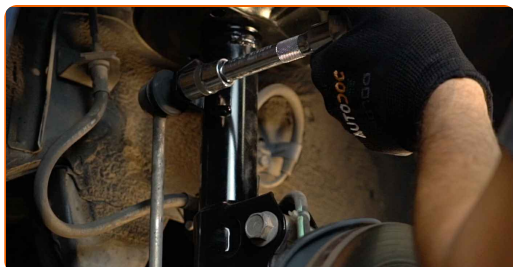
- 53** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #19. Use a torque wrench. Tighten it to 153 Nm torque.



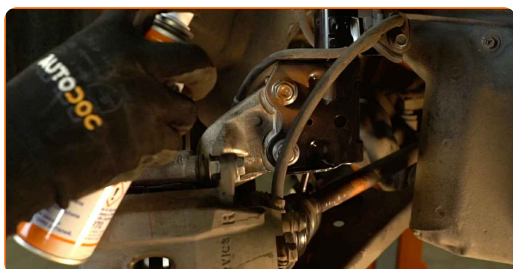
- 54** Install the transverse stabilizer link.



- 55** Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a torque wrench. Tighten it to 74 Nm torque.



- 56** Treat the shock strut fasteners. Use copper grease.



57

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



58

Clean the brake disk surface. Use a brake cleaner.

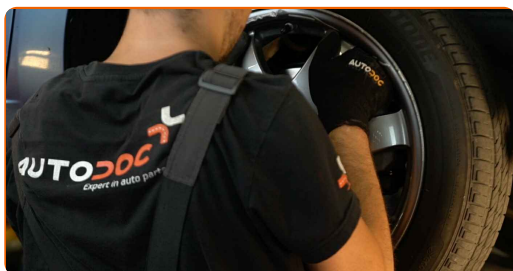


Replacement: suspension strut – Toyota Prius 2. AUTODOC recommends:

- After applying the spray, wait a few minutes.

59

Install the wheel.



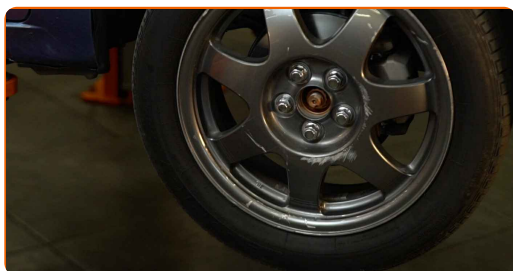
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Toyota Prius 2

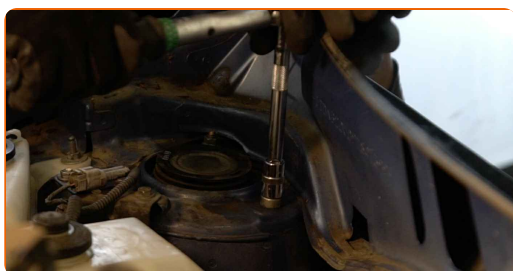
**60** Screw in the wheel bolts. Use wheel impact socket #21.



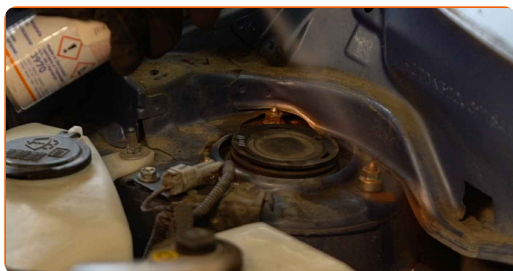
**61** Lower the car.



**62** Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #12. Use a torque wrench. Tighten it to 39 Nm torque.



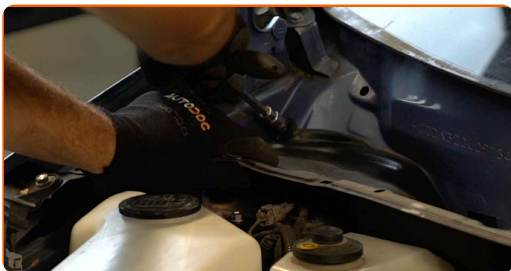
**63** Treat the fasteners of the shock strut mount. Use copper grease.



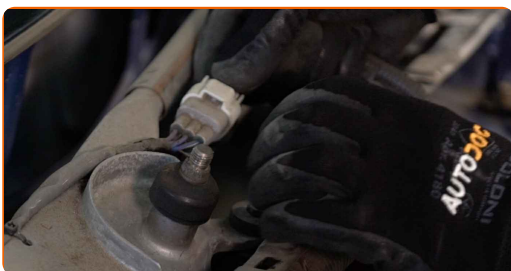
**64** Install the panel assembled with the windscreen wiper linkage.



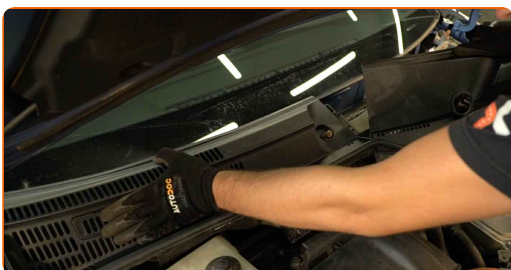
**65** Screw in the fasteners of the windscreen wiper linkage panel. Use a drive socket #10. Use a ratchet wrench.



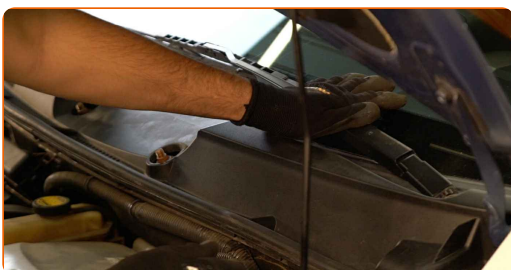
**66** Attach the windscreen wiper connector.



**67** Install the wiper arm covers.



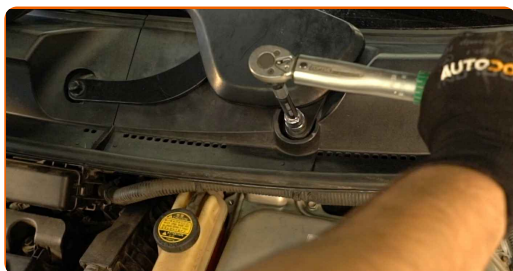
**68** Reinstall the wiper arms.



**Replacement: suspension strut – Toyota Prius 2. Tip:**

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

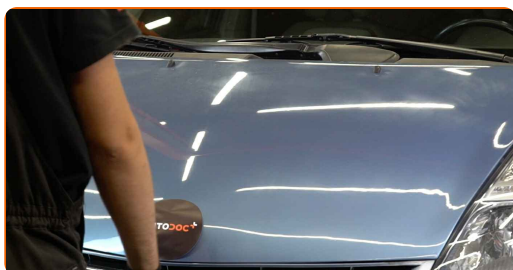
**69** Tighten the fasteners of the wiper arms. Use a drive socket #14. Use a torque wrench. Tighten it to 21 Nm torque.



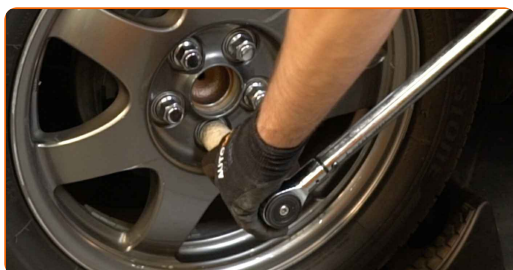
**70** Remove the fender protection cover.



**71** Close the hood.



**72** Tighten the wheel bolts using a criss-cross pattern. Use a torque wrench. Tighten it to 103 Nm torque.



73

Remove the jacks and chocks.



**WELL DONE!** 

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