



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

VIDEO TUTORIAL

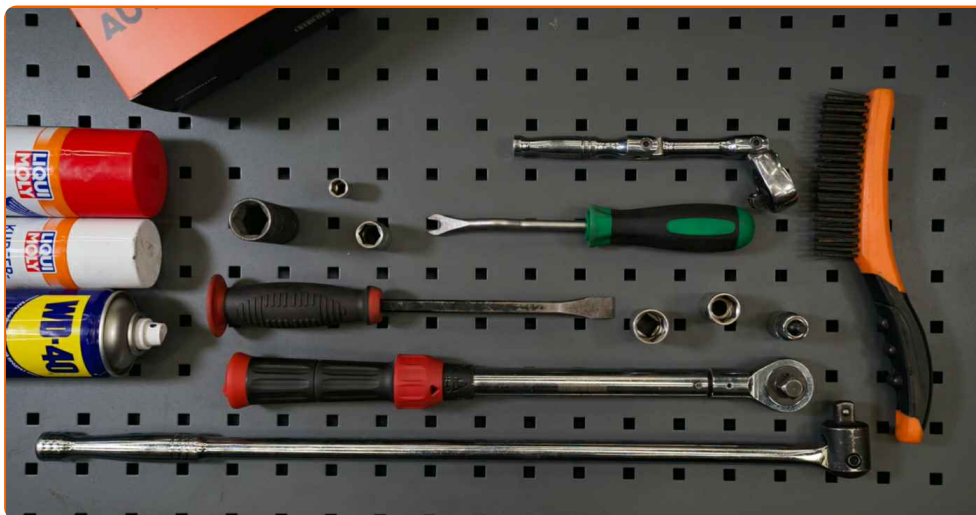
**i Important!**

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. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # 10
- Drive socket # 14
- Drive socket # 17
- Drive socket # 19
- HEX bit no.H6.
- Wheel impact socket #21
- Ratchet wrench
- Torque wrench
- Clip removal tool
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Wheel chock

[BUY TOOLS](#)

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

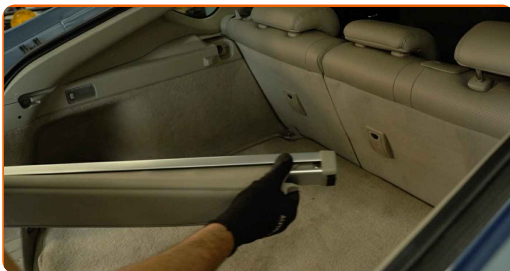
- Both shock struts of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the rear suspension.
- All work should be done with the engine stopped.

REPLACEMENT: SUSPENSION STRUT – TOYOTA PRIUS 2. RECOMMENDED SEQUENCE OF STEPS:

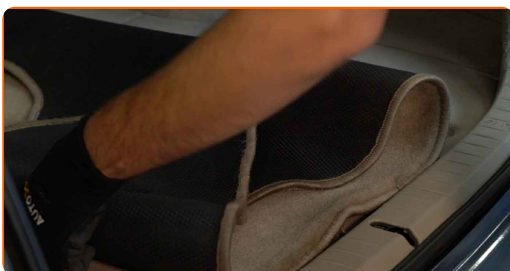
1 Open the boot lid.



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

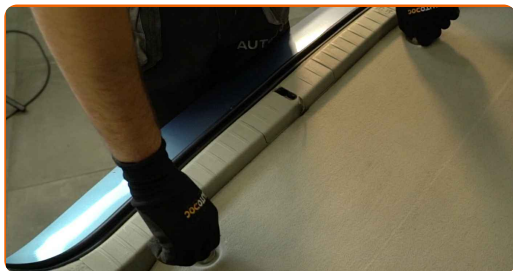


3 Raise the lower lining of the boot.



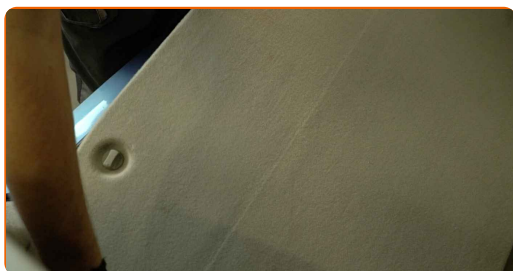
4

Remove the clips of the boot front lower lining. Use a clip removal tool.



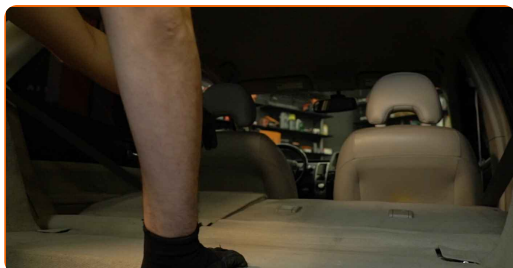
5

Remove the boot front lower lining.



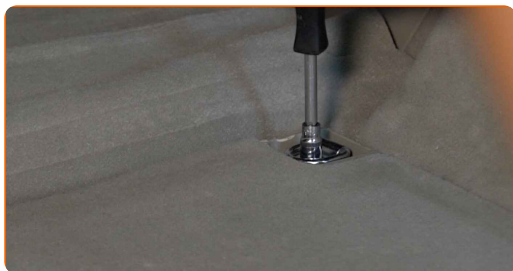
6

Fold down the backrests of the rear seats.



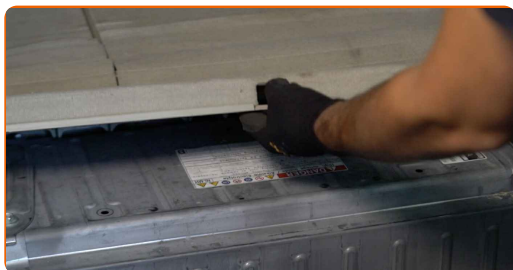
7

Unscrew the fastener of the central protective plastic panel. Use a drive socket #10. Use a ratchet wrench.



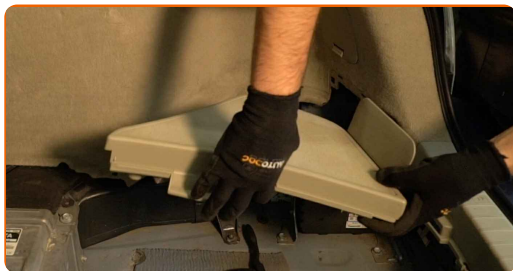
8

Lift up the central plastic cover (the battery cover).



9

Detach the boot side lining.

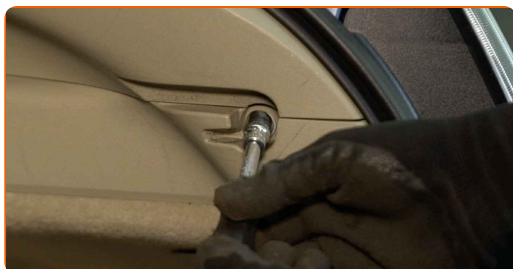


10

Remove the side plastic cover.

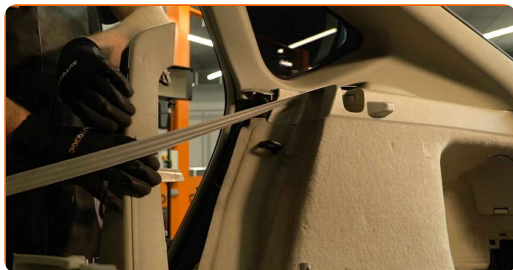
11

Unscrew the fasteners of the side plastic trim panel. Use a drive socket #10. Use a ratchet wrench.



12

Remove the seat belt trim cover.

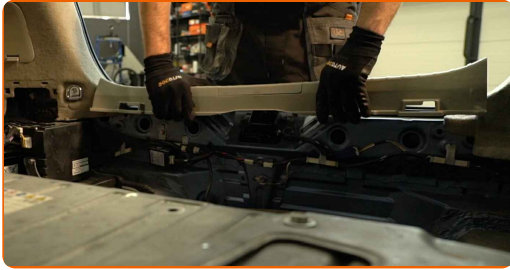


13

Unscrew the fasteners of the side plastic trim panel. Use a drive socket #10. Use a ratchet wrench.



14 Remove the plastic door sill plate.



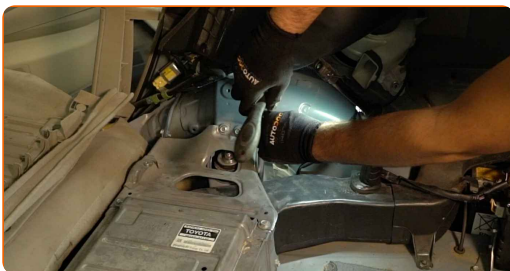
15 Unscrew the fastener and remove the boot side sound insulation. Use a drive socket #10. Use a ratchet wrench.



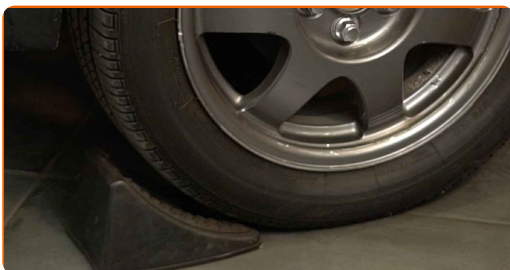
16 Detach the heater air hose.



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



18 Secure the wheels with chocks.



19

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



20

Raise the rear of the car and secure on supports.



21

Unscrew the wheel bolts.

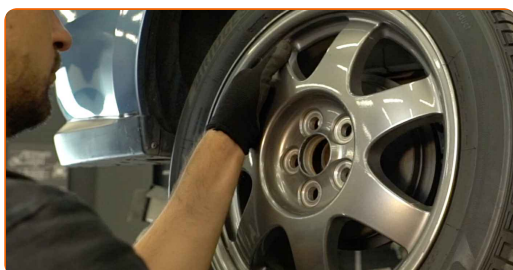


AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
Toyota Prius 2

22

Remove the wheel.



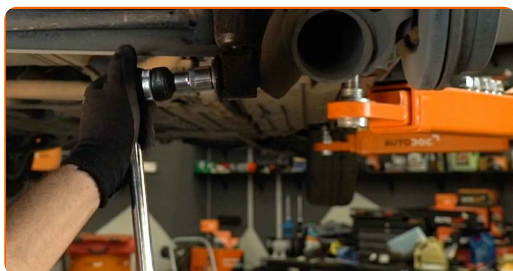
23

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



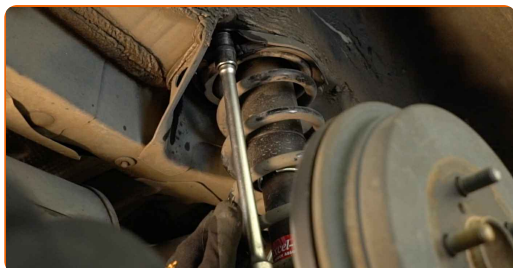
24

Unscrew the lower fastener of the shock absorber strut. Use a drive socket #19. Use a ratchet wrench.



25

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



26

Remove the suspension strut. Use a crowbar.



27

Set the shock absorber strut on the spring compressor tool.

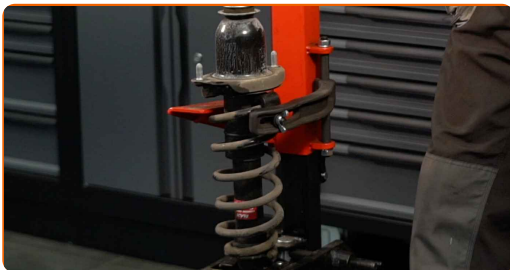


Replacement: suspension strut – Toyota Prius 2. AUTODOC recommends:

- 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.

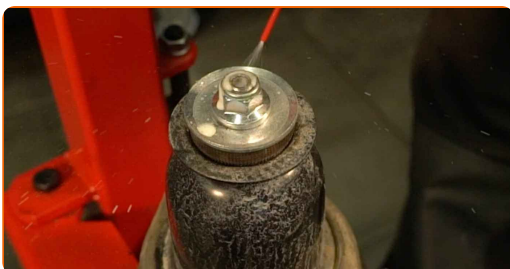
28

Compress the spring.



29

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



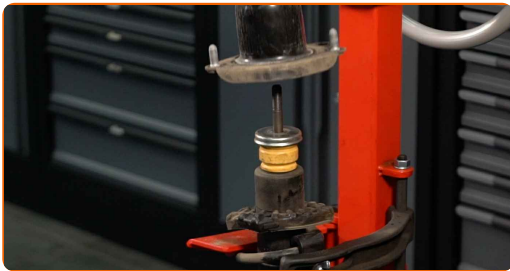
30

Remove the strut piston rod nut. Use a drive socket #17. Use HEX No.H6. Use a ratchet wrench.



31

Remove the top strut mount.



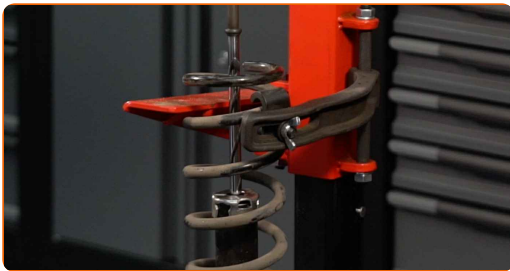
32

Remove the shock absorber dust cap and the bump stop.



33

Release the coil spring.



34

Remove the spring.



35

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



AUTODOC recommends:

- Replacement: suspension strut – Toyota Prius 2. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.
- Before installing a new shock absorber you should pump it manually 3-5 times.

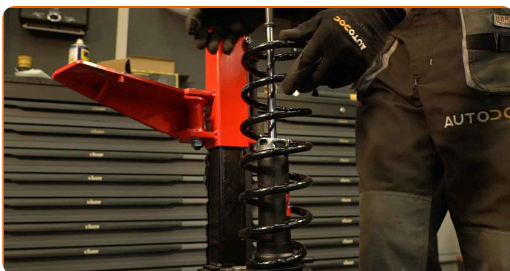
36

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



37

Install the spring on the shock absorber.



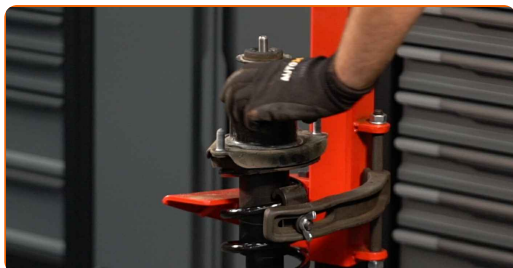
38 Compress the spring.



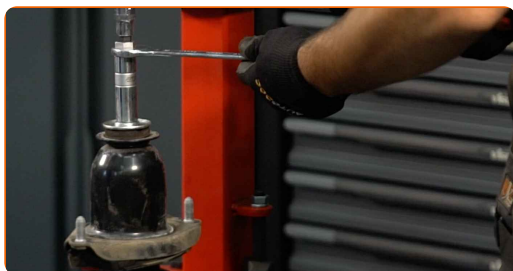
39 Install the dust sleeve and the bump stop on the new shock absorber.



40 Install the upper strut mount and the strut mount bearing.



41 Tighten the shock strut piston rod nut. Use a drive socket #17. Use HEX No.H6. Use a torque wrench. Tighten it to 56 Nm torque.



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

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

42 Treat the shock strut rod. Use copper grease.



43 Decompress the spring.



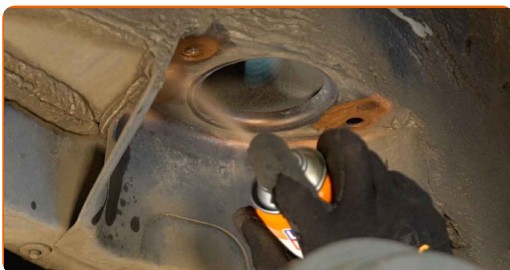
44 Remove the assembled shock strut.



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

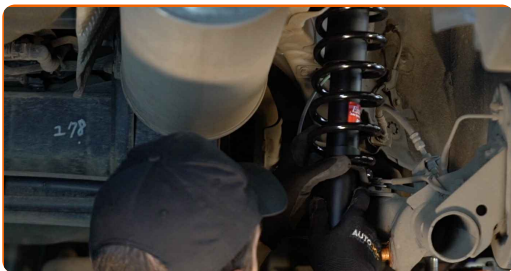


46 Treat the mounting seats of the shock strut. Use copper grease.



47

Install the shock strut into the wheel arch.



48

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

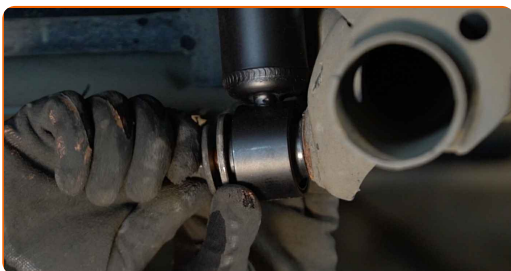


AUTODOC recommends:

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

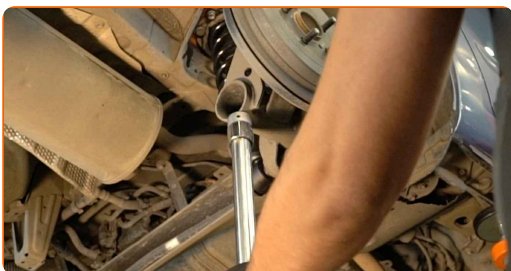
49

Screw in the lower fastener of the shock strut.

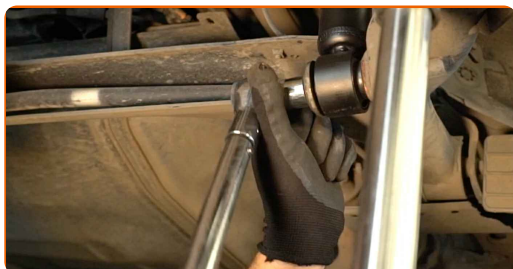


50

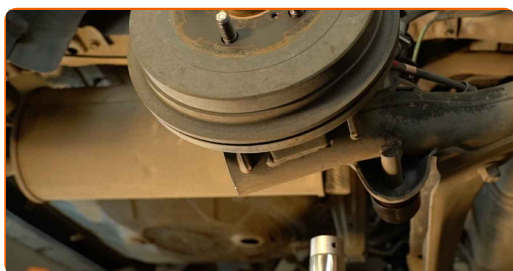
Support the rear suspension beam. Use a hydraulic transmission jack.



- 51** Tighten the lower fastening of the shock absorber. Use a drive socket #19. Use a torque wrench. Tighten it to 80 Nm torque.



- 52** Remove the mounting from under the rear axle beam.



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

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

- 53** Install the wheel.



AUTODOC recommends:

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

54

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



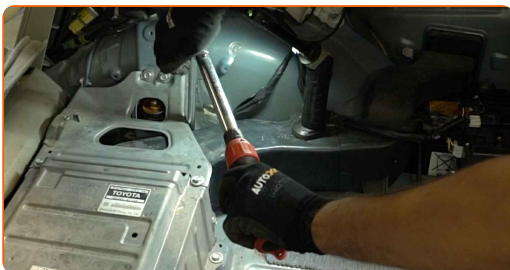
55

Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 103 Nm torque.



56

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.



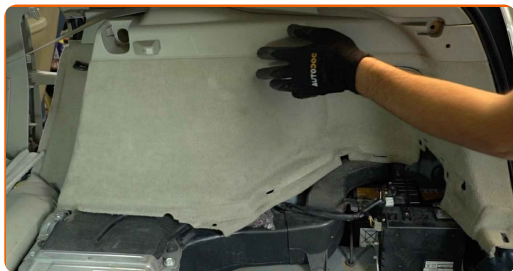
57

Install the heater air hose.



58

Install the boot side sound insulation and screw in its fasteners.



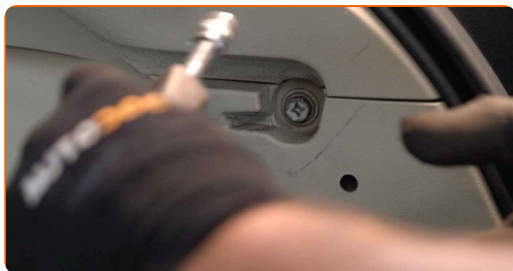
59

Use a drive socket #10. Use a ratchet wrench.



60

Screw in the fastener of the boot side lining. Use a drive socket #10. Use a ratchet wrench.

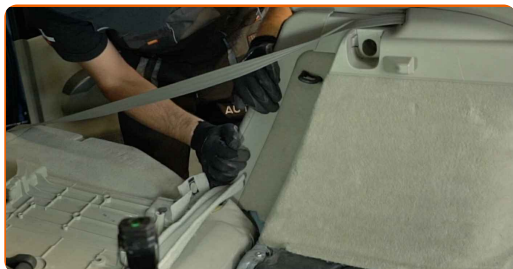


61

Screw the fasteners of the side plastic trim panel. Use a drive socket #10. Use a ratchet wrench.

62

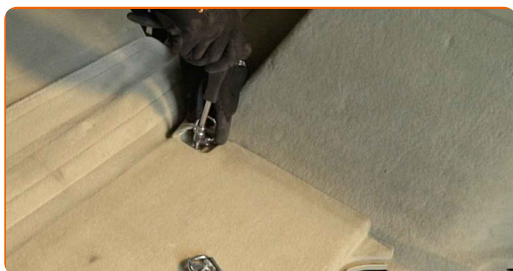
Install the seat belt trim cover.



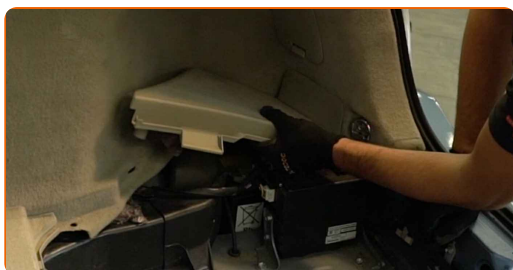
63 Install the central protective plastic panel.



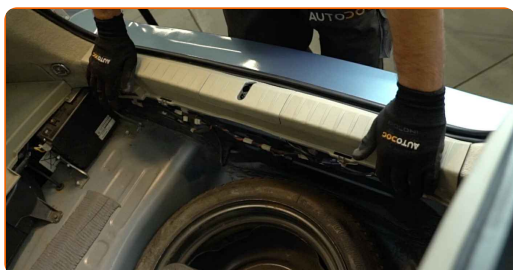
64 Screw in the fastener of the central protective plastic panel. Use a drive socket #10. Use a ratchet wrench.



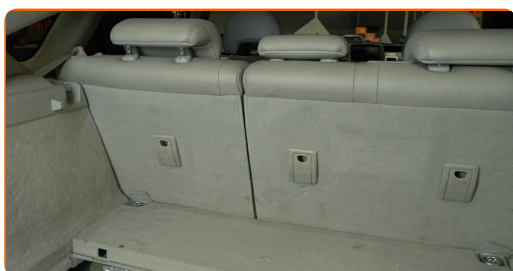
65 Attach the side lining of the boot.



66 Install the plastic door sill plate.

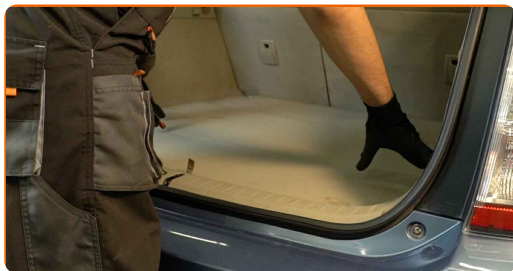


67 Return the seat to its original position.



68

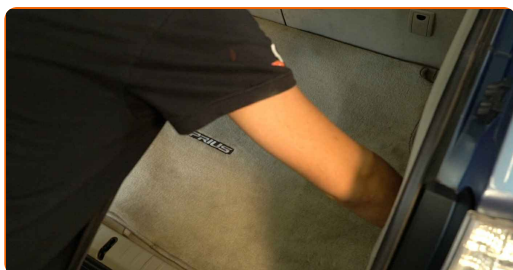
Install the boot front lower lining.

**69**

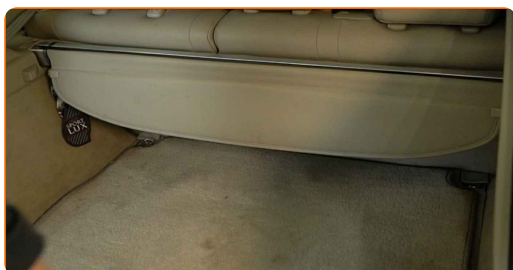
Install the clips of the boot front lower lining.

**70**

Put down the lower lining of the boot.

**71**

Install the folding shelf to its mounting seat.

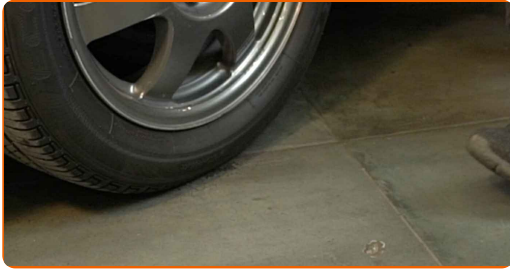
**72**

Close the lid of the luggage compartment.



73

Remove the jacks and chocks.



WELL DONE! 

VIEW MORE TUTORIALS

AUTODOC – TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE

AUTODOC MOBILE APP: GREAT DEALS AND CONVENIENT SHOPPING



+ AUTODOC

GET IT ON
 **Google Play**

 **Download on the App Store**

Download

A GREAT SELECTION OF SPARE PARTS FOR YOUR CAR

BUY SPARE PARTS FOR TOYOTA

SHOCK ABSORBERS: A WIDE SELECTION

CHOOSE CAR PARTS FOR TOYOTA PRIUS 2

SHOCK ABSORBERS FOR TOYOTA: BUY NOW

**SHOCK ABSORBERS FOR TOYOTA PRIUS 2: THE BEST
DEALS & OFFERS**

DISCLAIMER:

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AUTODOC shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AUTODOC shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AUTODOC shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AUTODOC strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.

© Copyright 2022 – All the contents of this website, in particular texts, photographs and graphics, are protected by copyright. All rights, including reproduction, publication, editing and translation rights, are reserved by AUTODOC GmbH.