



How to change rear
shock absorbers on
TOYOTA RAV 4 IV
(ZSA4_, ALA4_) –
replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

Important!

This replacement procedure can be used for:

TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.0 4WD, TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.0 D (ALA40_), TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.0 4WD (ZSA44_), TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.2 D 4WD (ALA49), TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.0 (ZSA42), TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.5 4WD (ASA44), TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.0 D 4WD (ALA41_), TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.5, TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.5 4WD, TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.5 Hybrid 4WD, TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.0 D-4D (WWA42_), TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.5 (ASA42), TOYOTA RAV 4 IV (ZSA4_, ALA4_) 2.5 Hybrid (AVA42_)

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: TOYOTA RAV 4 III (ACA3_, ACE_, ALA3_, GSA3_, ZSA3_) 2.4 (ACA33)

REPLACEMENT: SHOCK ABSORBERS – TOYOTA RAV 4 IV (ZSA4_, ALA4_). TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Copper grease
- Combination spanner #17
- Drive socket # 12
- Drive socket # 17
- Wheel impact socket #21
- Ratchet wrench
- Torque wrench
- Tap wrench
- Crow bar
- Hydraulic transmission jack
- Wheel chock

Buy tools

Replacement: shock absorbers – TOYOTA RAV 4 IV (ZSA4_, ALA4_).
AUTODOC recommends:

- Both shock absorbers of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock absorbers of the rear suspension.
- Replacement: shock absorbers – TOYOTA RAV 4 IV (ZSA4_, ALA4_). Use the following procedure:

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Secure the wheels with chocks.

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



3 Raise the rear of the car and secure on supports.

4 Unscrew the wheel bolts.

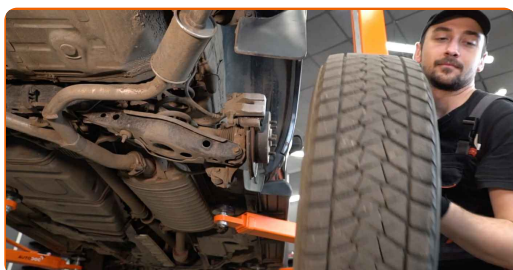


AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. TOYOTA RAV 4 IV (ZSA4_, ALA4_)

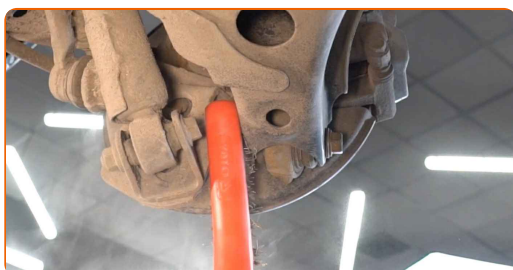
5

Remove the wheel.



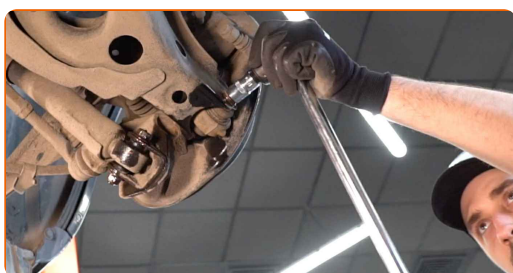
6

Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



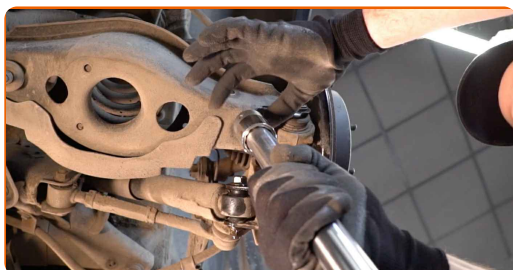
7

Unscrew the rear transverse arm fastener to the stub axle. Use a drive socket #17. Use a tap wrench.



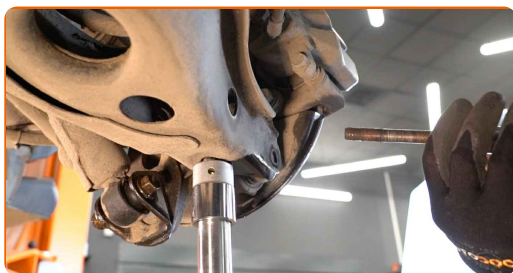
8

Support the arm. Use a hydraulic transmission jack.



9

Remove the fastening bolt.



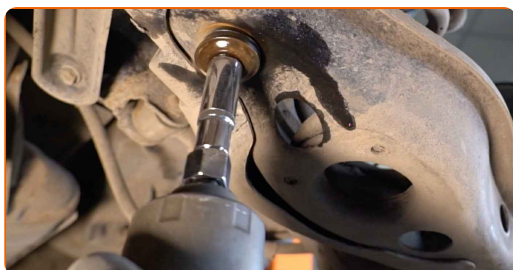
10

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



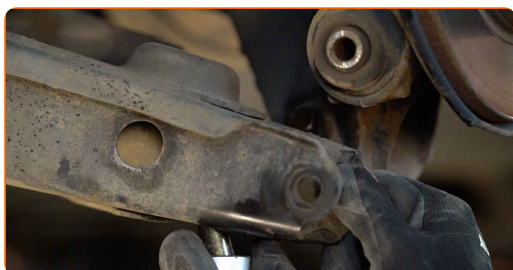
11

Unscrew the fastener connecting the stabilizer bar with the control arm. Use a drive socket #17.



12

Remove the support from under the arm.

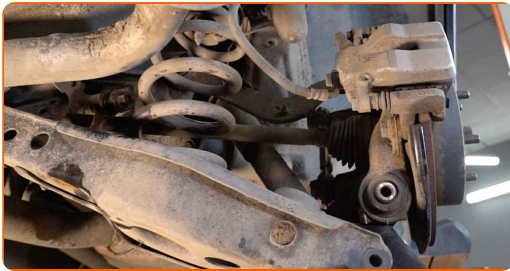


Replacement: shock absorbers – TOYOTA RAV 4 IV (ZSA4_, ALA4_). Tip from AUTODOC experts:

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

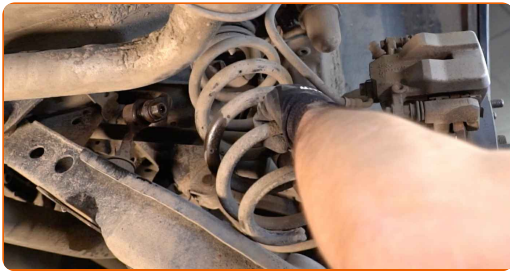
13

Detach the suspension arm from the rear knuckle.



14

Remove the spring.



Replacement: shock absorbers – TOYOTA RAV 4 IV (ZSA4_, ALA4_). Tip:

- Inspect the rubber mounts of the suspension spring. Replace if necessary.

15

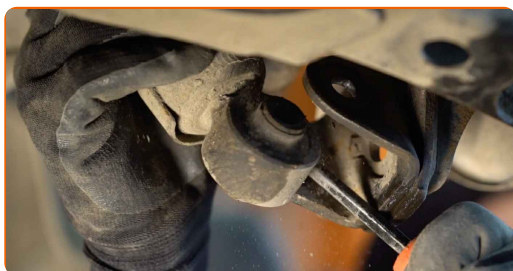
Unscrew the lower fastener of the shock absorber. Use a combination spanner #17. Use a drive socket #17.



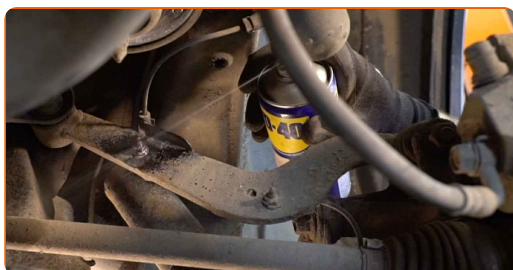
16 Pull down the suspension control arm. Remove the fastening bolt.



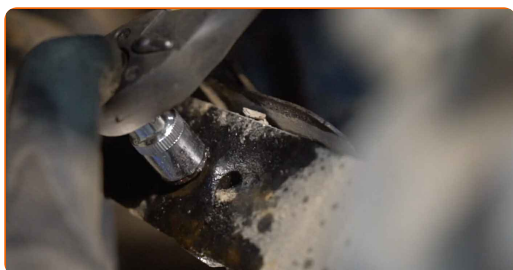
17 Detach the lower part of the shock absorber. Use a crowbar.



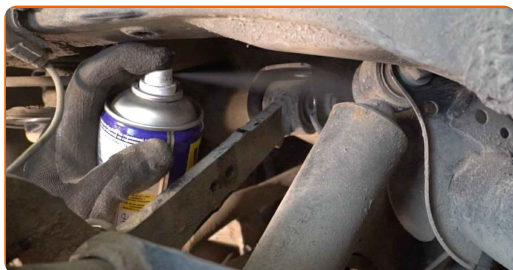
18 Clean the fastener of the ABS sensor bracket. Use WD-40 spray.



19 Unscrew the ABS cable holder. Use a drive socket #12. Use a ratchet wrench.



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



21

Unscrew the upper fastener of the shock absorber. Use a combination spanner #17 (2 pieces).



22

Remove the fastening bolt.

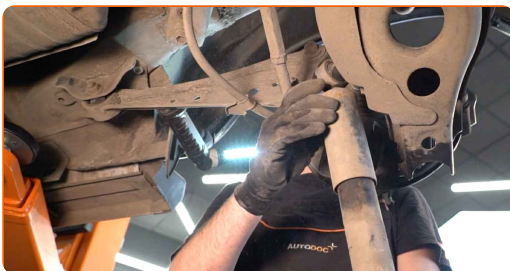


Replacement: shock absorbers – TOYOTA RAV 4 IV (ZSA4_, ALA4_). Tip from AUTODOC experts:

- To avoid injuries, hold the shock absorber when undoing the fastening bolts.

23

Remove the shock absorber.



24

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

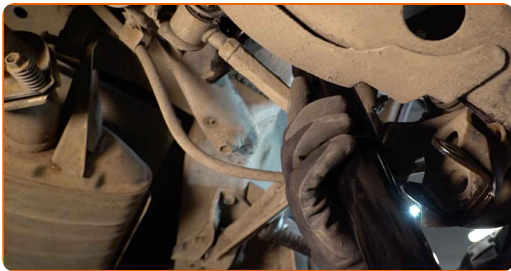


Replacement: shock absorbers – TOYOTA RAV 4 IV (ZSA4_, ALA4_). Tip from AUTODOC:

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

25

Place the shock absorber in the wheel arch and fasten it.

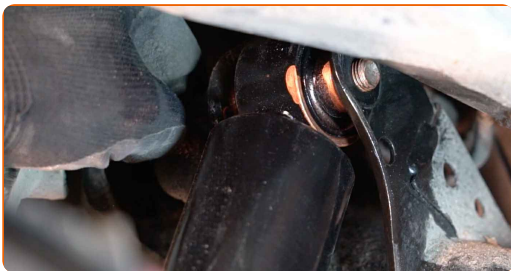


AUTODOC recommends:

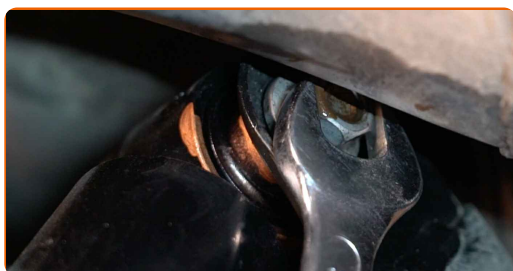
- Important! Hold the shock absorber while screwing in the fastening bolts.
TOYOTA RAV 4 IV (ZSA4_, ALA4_)

26

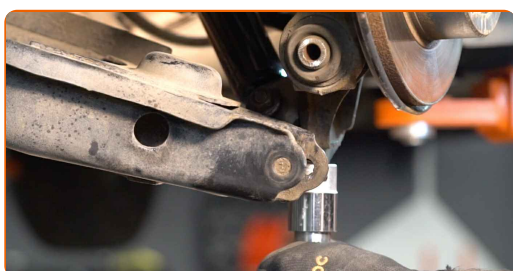
Install the fastening bolts.



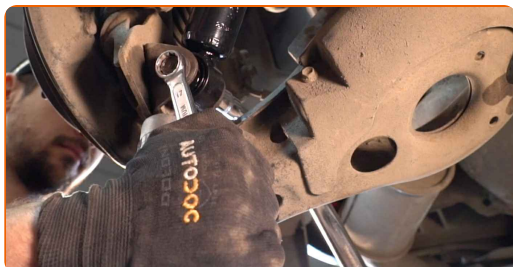
- 27** Tighten the top shock absorber fastening. Use a combination spanner #17 (2 pieces). Use a torque wrench. Tighten it to 80 Nm torque.



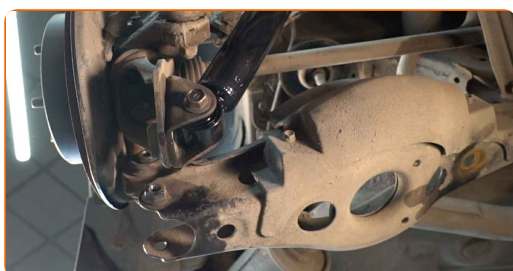
- 28** Support the stub axle. Use a hydraulic transmission jack.



- 29** Tighten the lower fastener of the shock absorber. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 80 Nm torque.



- 30** Remove the support from under the stub axle.



AUTODOC recommends:

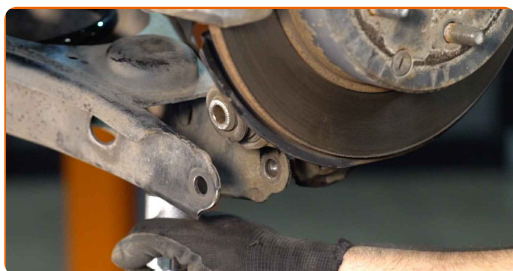
- Replacement: shock absorbers – TOYOTA RAV 4 IV (ZSA4_, ALA4_). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

31

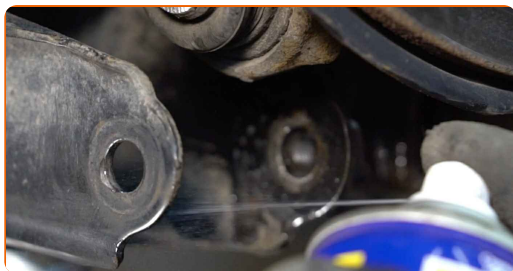
Install the coil spring together with the rubber mounts into the mounting seats.

**32**

Support the arm. Use a hydraulic transmission jack.

**33**

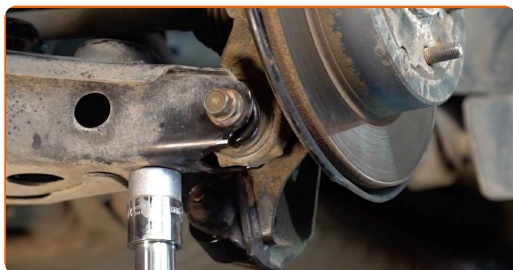
Clean the mounting seats and the thread of the suspension arm. Use a wire brush. Use WD-40 spray.

**34**

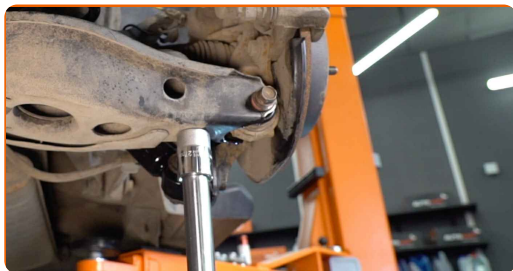
Attach the suspension arm to the rear knuckle.

**35**

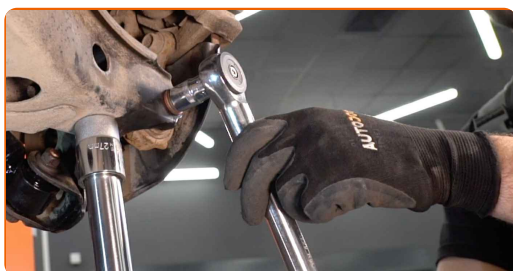
Install the fastening bolt. Use a crowbar.



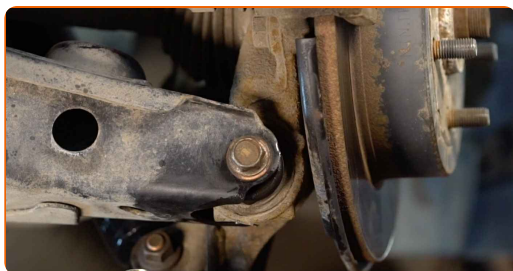
36 Raise the hydraulic transmission jack by 10-15 cm.



37 Tighten the control arm fastener to the stub axle. Use a drive socket #17. Use a torque wrench. Tighten it to 90 Nm torque.



38 Remove the support from under the arm.



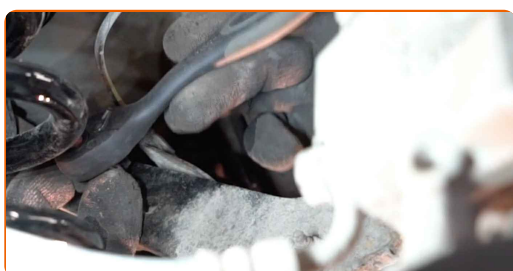
Replacement: shock absorbers – TOYOTA RAV 4 IV (ZSA4_, ALA4_).
AUTODOC experts recommend:

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

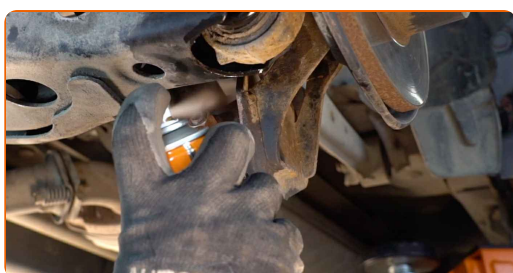
- 39 Tighten the fastener connecting the stabilizer bar with the control arm. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 30 Nm torque.



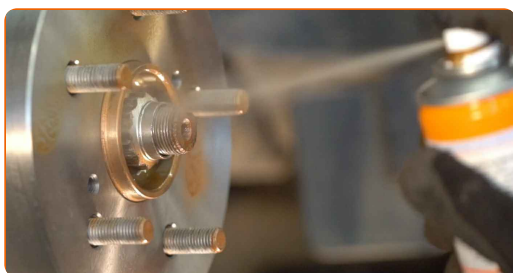
- 40 Tighten the ABS cable holder. Use a drive socket #12. Use a ratchet wrench.



- 41 Treat all joints of the arm. Use copper grease.

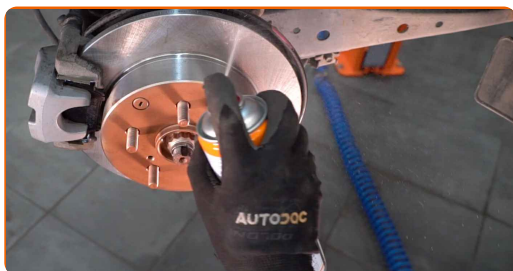


- 42 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



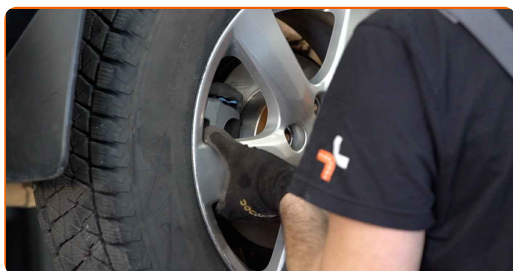
43

Clean the brake disk surface. Use all-purpose cleaning spray.



44

Install the wheel.



Replacement: shock absorbers – TOYOTA RAV 4 IV (ZSA4_, ALA4_).
Professionals recommend:

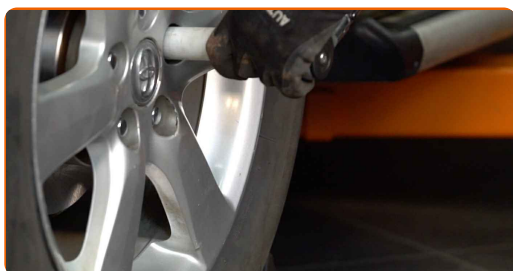
- To avoid injury, hold up the wheel when screwing in the fastening bolts.

45

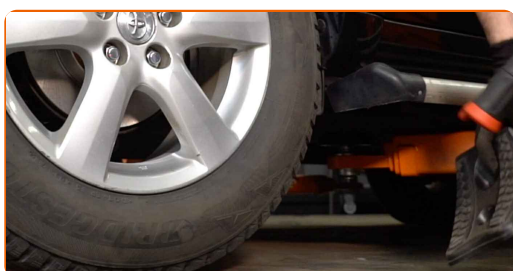
Screw in the wheel bolts. Use wheel impact socket #21.



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



47 Remove the jacks and chocks.



WELL DONE! 

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