



How to change track rod  
end on **TOYOTA RAV4 IV**  
**Off-Road (XA40)** –  
replacement guide

### SIMILAR VIDEO TUTORIAL



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

#### **i Important!**

This replacement procedure can be used for:

TOYOTA RAV4 IV Off-Road (XA40) 2.0 D (ALA40\_), TOYOTA RAV4 IV Off-Road (XA40) 2.0 4WD (ZSA44\_), TOYOTA RAV4 IV Off-Road (XA40) 2.2 D 4WD (ALA49), TOYOTA RAV4 IV Off-Road (XA40) 2.0 D 4WD (ALA41\_), TOYOTA RAV4 IV Off-Road (XA40) 2.5 Hybrid (AVA42\_, AVA44\_), TOYOTA RAV4 IV Off-Road (XA40) 2.5 Hybrid 4WD (AVA44\_), TOYOTA RAV4 IV Off-Road (XA40) 2.0 D-4D (WWA42\_)

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 RAV4 III Off-Road (XA30) 2.4 (ACA33)

REPLACEMENT: TRACK ROD END – TOYOTA RAV4 IV  
OFF-ROAD (XA40). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Combination spanner #21
- Combination spanner #22
- Drive socket # 17
- Wheel impact socket #21
- Ratchet wrench
- Torque wrench
- Tap wrench
- Flat Screwdriver
- Round-nose pliers
- Vernier caliper
- Crow bar
- Rubber mallet
- Ball joint puller
- Wheel chock

**Buy tools**

Replacement: track rod end – TOYOTA RAV4 IV Off-Road (XA40). Tip:

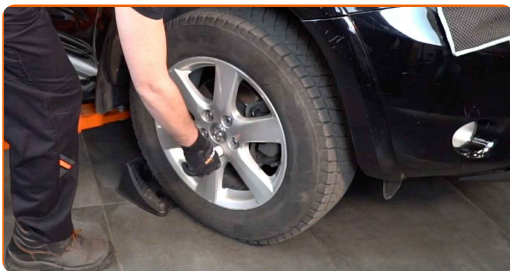
- Replace tie rod ends in pairs.
- The replacement procedure is identical for the right and left tie rod ends.
- During the installation process, use only new bolts and nuts.
- All work should be done with the engine stopped.

**REPLACEMENT: TRACK ROD END – TOYOTA RAV4 IV OFF-ROAD (XA40). USE THE FOLLOWING PROCEDURE:**

**1** Secure the wheels with chocks.



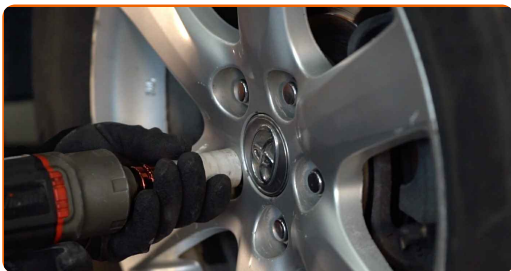
**2** Loosen the wheel mounting bolts. Use wheel impact socket #21.



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

4

Unscrew the wheel bolts.

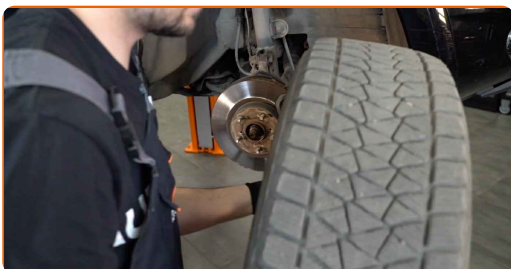


**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
TOYOTA RAV4 IV Off-Road (XA40)

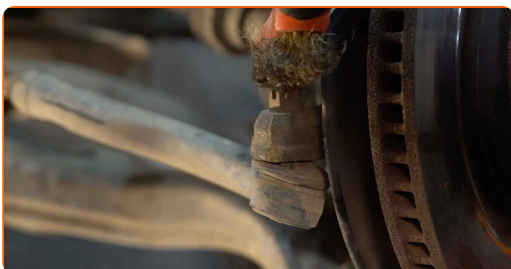
5

Remove the wheel.



6

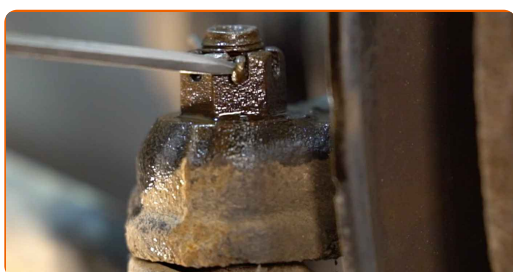
Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



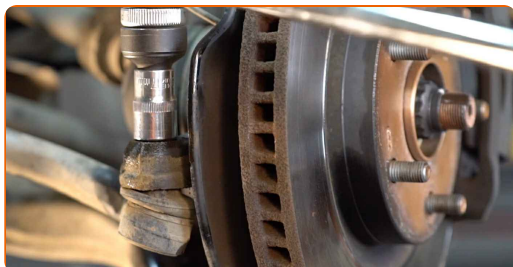
- 7 When deinstalling, mark or measure the precise position of the ball joint on the track rod, or count the number of turns in order to prevent misalignment afterward. Use a vernier caliper.



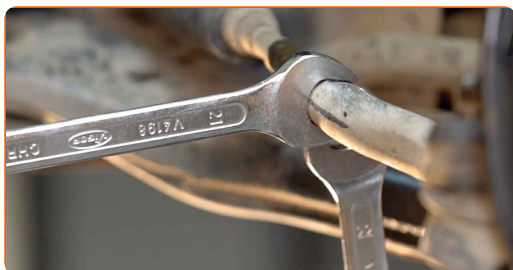
- 8 Remove the cotter pin fixing the tie rod end fastening. Use a flat screwdriver. Use round-nose pliers. Use a crowbar.



- 9 Unscrew the end fastening nut to the steering knuckle. Use a drive socket #17. Use a tap wrench.

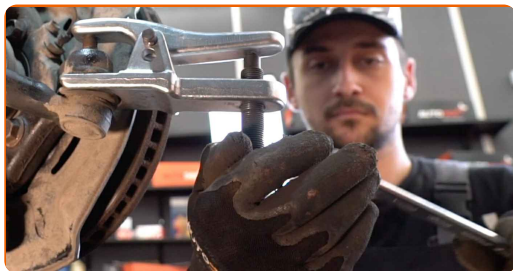


- 10 Loosen the lock nut securing the tie rod end to the tie rod. Use a combination spanner #21. Use a combination spanner #22.

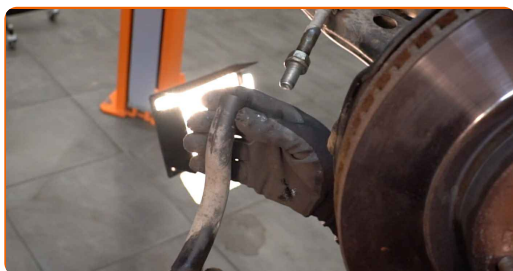


**11**

Disconnect the tie rod end from the steering knuckle. Use a ball joint puller. Use a rubber mallet.

**12**

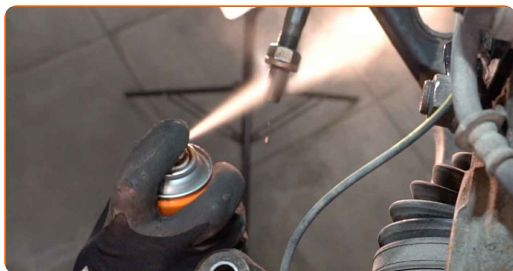
Screw the end out of the tie rod.

**13**

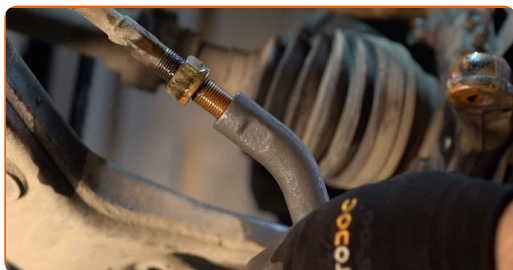
Clean the mounting seats of the tie rod end. Use a wire brush.

**14**

Treat the mounting seats of the tie rod end. Use copper grease.

**15**

Screw on a new tie rod end.

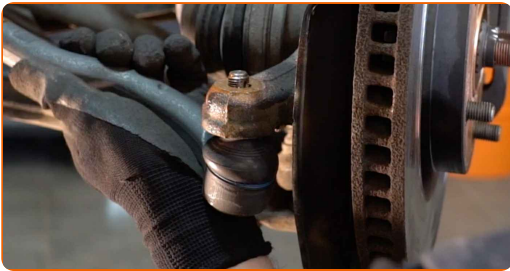


Replacement: track rod end – TOYOTA RAV4 IV Off-Road (XA40). AUTODOC recommends:

- While installing the steering rod end remember to make the same number of turns or to leave the same length of thread showing as per your measurements.

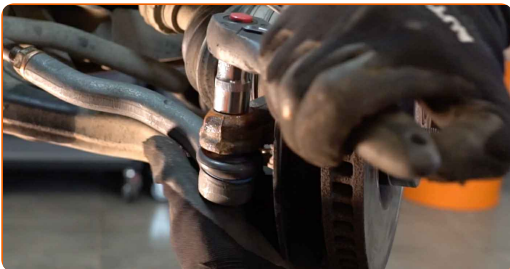
16

Connect the tie rod end to the steering knuckle.



17

Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



18

Tighten the tie rod end locknut. Use a combination spanner #21. Use a combination spanner #22. Use a torque wrench. Tighten it to 88 nm torque.

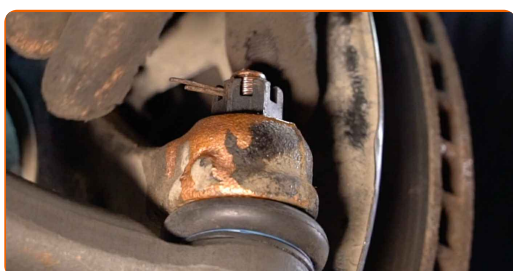




- 19 Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 49 nm torque.



- 20 Install the cotter pin fixing the tie rod end fastening.



- 21 Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.

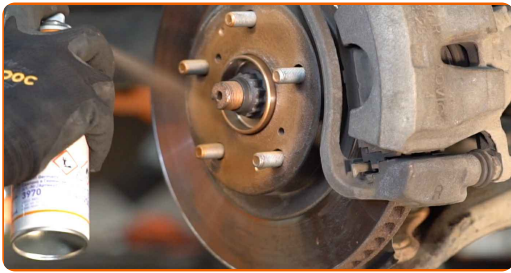


- 22 Clean the wheel rim mounting seat. Use a wire brush.



23

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



24

Install the wheel.

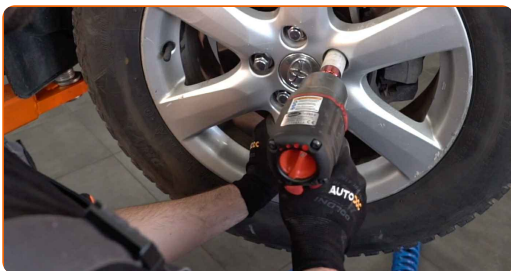


Replacement: track rod end – TOYOTA RAV4 IV Off-Road (XA40). AUTODOC experts recommend:

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

25

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



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



Replacement: track rod end – TOYOTA RAV4 IV Off-Road (XA40).  
Professionals recommend:

- Check and adjust wheel alignment if necessary.

- 27** Remove the jacks and chocks.



**WELL DONE!** 

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**TRACK ROD END: A WIDE SELECTION**

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