



How to change track rod  
end on **Mazda 3 BK** –  
replacement guide

**VIDEO TUTORIAL**



**ⓘ Important!**

This replacement procedure can be used for:

MAZDA 5 (CW) 1.6 CD, MAZDA 5 (CW) 2.0, MAZDA 3 Saloon (BL) 1.6 MZR CD, MAZDA 3 Hatchback (BL) 1.6 MZR CD, MAZDA 3 Saloon (BL) 2.0, MAZDA 3 Hatchback (BK) 1.6, MAZDA 3 Hatchback (BK) 2.0, MAZDA 3 Saloon (BK) 2.0, MAZDA 3 Saloon (BK) 1.6 DI Turbo, MAZDA 3 Hatchback (BK) 1.6 DI Turbo, MAZDA 3 Hatchback (BK) 1.4, MAZDA 5 (CR19) 1.8, MAZDA 5 (CR19) 2.0, MAZDA 5 (CR19) 2.0 CD, MAZDA 3 Hatchback (BK) 2.3 MZR, (+ 32)

The steps may slightly vary depending on the car design.

REPLACEMENT: TRACK ROD END – MAZDA 3 BK.  
TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #24
- Drive socket # 14
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Vernier caliper
- Ball joint puller
- Nippers
- Wheel chock

**BUY TOOLS**

Replacement: track rod end – Mazda 3 BK. Tip from AUTODOC:

- Replace tie rod ends in pairs.
- The replacement procedure is identical for the right and left tie rod ends.
- Please note: all work on the car – Mazda 3 BK – should be done with the engine switched off.

**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

**1** Secure the wheels with chocks.



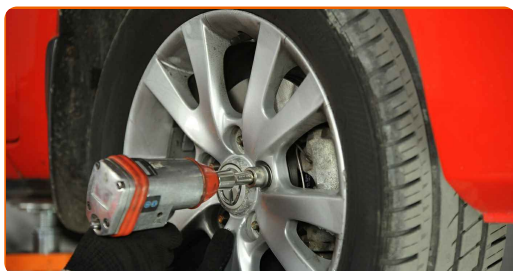
**2** Loosen the wheel mounting bolts. Use wheel impact socket #19.



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



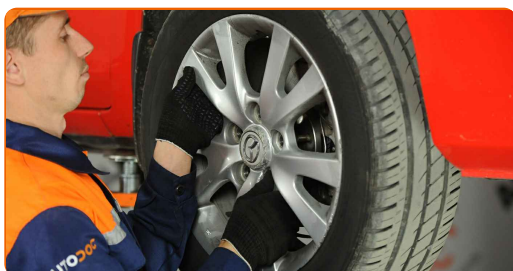
**4** Unscrew the wheel bolts.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
Mazda 3 BK

**5** Remove the wheel.

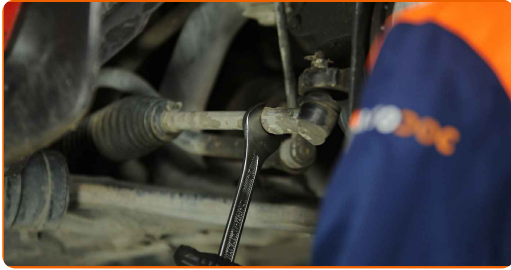


**6** When deinstalling, mark or measure the precise position of the ball joint on the track rod, or count the number of turns in order to prevent misalignment afterward. Use a vernier caliper.

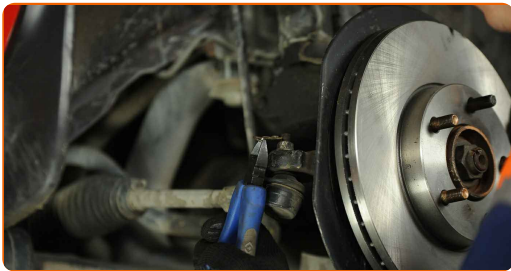


**7** Clean the lock nut that connects the tie rod to the tie rod end. Use a wire brush. Use WD-40 spray.

**8** Loosen the lock nut securing the tie rod end to the tie rod. Use a combination spanner #24.

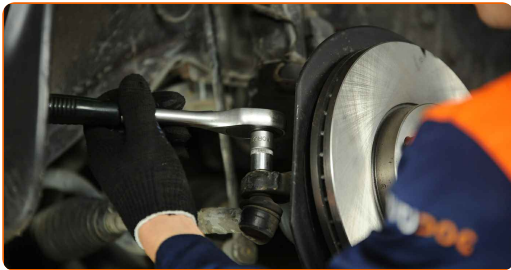


**9** Remove the cotter pin. Use nippers.

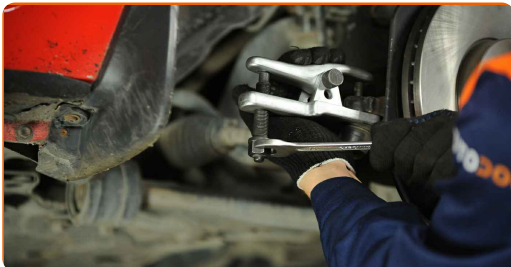


**10** Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.

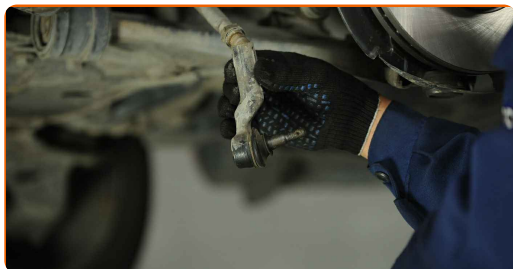
**11** Unscrew the end fastening nut to the steering knuckle. Use a drive socket #14. Use a ratchet wrench.



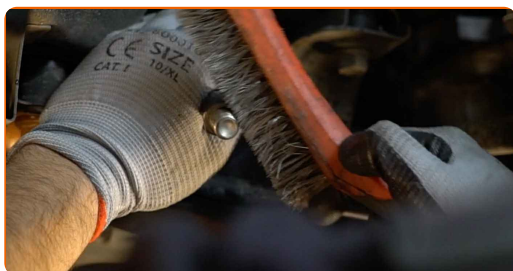
**12** Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



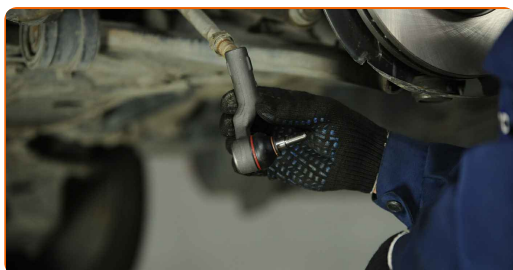
**13** Screw the end out of the tie rod.



**14** Clean the mounting seats of the tie rod end. Use a wire brush. Use WD-40 spray.



**15** Screw on a new tie rod end.



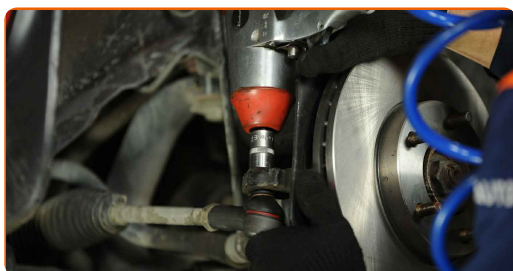
**Replacement: track rod end – Mazda 3 BK. Tip from AUTODOC:**

- 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

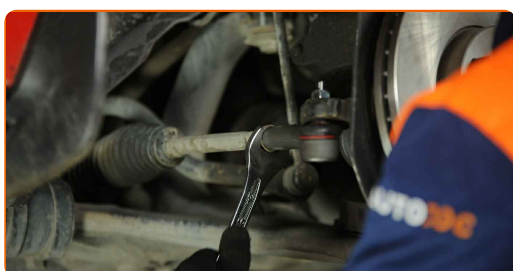
**16** Connect the tie rod end to the steering knuckle.



- 17 Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #14. Use a torque wrench. Tighten it to 40 nm torque.

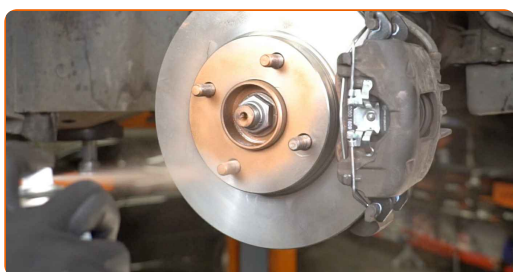


- 18 Tighten the tie rod end locknut. Use a combination spanner #24. Use a torque wrench. Tighten it to 80 nm torque.

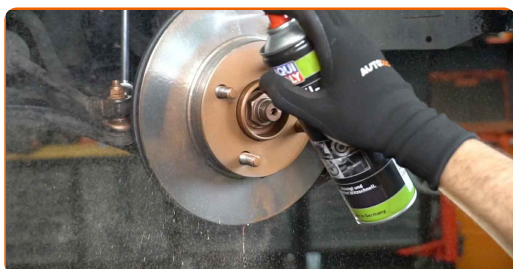


- 19 Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.

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



- 21 Clean the brake disk surface. Use a brake cleaner.





**AUTODOC recommends:**

- Replacement: track rod end – Mazda 3 BK. After applying the spray, wait a few minutes.

**22**

Install the wheel.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Mazda 3 BK

**23**

Screw in the wheel bolts. Use wheel impact socket #19.



**24**

Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #19. Use a torque wrench. Tighten it to 118 nm torque.

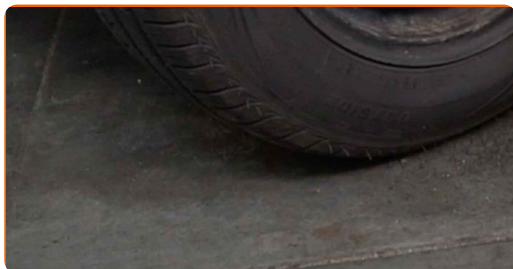


Replacement: track rod end – Mazda 3 BK. Tip from AUTODOC experts:

- Check and adjust wheel alignment if necessary.

25

Remove the jacks and chocks.



**WELL DONE!** 

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