

## VIDEO TUTORIAL



### Important!

This replacement procedure can be used for:

BMW 7 (E65, E66, E67) 730d 3.0, BMW 5 Saloon (E60) 525i 2.5, BMW 7 (E65, E66, E67) 735i / Li 3.6, BMW 7 (E65, E66, E67) 745i / Li 4.4, BMW 7 (E65, E66, E67) 740d 3.9, BMW 7 (E65, E66, E67) 760i / Li 6.0, BMW 5 Saloon (E60) 520i 2.2, BMW 5 Saloon (E60) 530i 3.0, BMW 5 Saloon (E60) 530d 3.0, BMW 5 Saloon (E60) 545i 4.4, BMW 5 Touring (E61) 525i 2.5, BMW 5 Touring (E61) 545i 4.4, BMW 5 Touring (E61) 530d 3.0, BMW 6 Coupe (E63) 645Ci 4.4, BMW 6 Convertible (E64) 645Ci 4.4, (+ 44)

The steps may slightly vary depending on the car design.

## REPLACEMENT: TRACK ROD END – BMW E60. TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #23
- Combination spanner #24
- Drive socket # 21
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Adjustable wrench
- Hammer
- Vernier caliper
- Crow bar
- Wheel chock

**BUY TOOLS**

### Replacement: track rod end – BMW E60. Professionals recommend:

- Replace tie rod ends in pairs.
- The replacement procedure is identical for the right and left tie rod ends.
- All work should be done with the engine stopped.

## REPLACEMENT: TRACK ROD END – BMW E60. USE THE FOLLOWING PROCEDURE:

1

Secure the wheels with chocks.



2

Loosen the wheel mounting bolts. Use wheel impact socket #17.



3

Raise the front of the car and secure on supports.



4

Unscrew the wheel bolts.

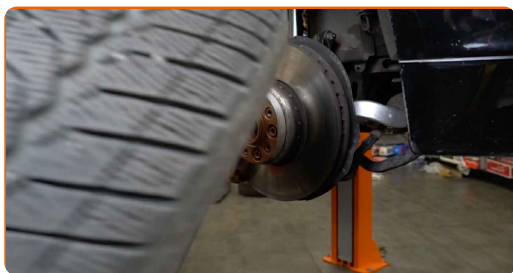


Replacement: track rod end – BMW E60. AUTODOC recommends:

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

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.



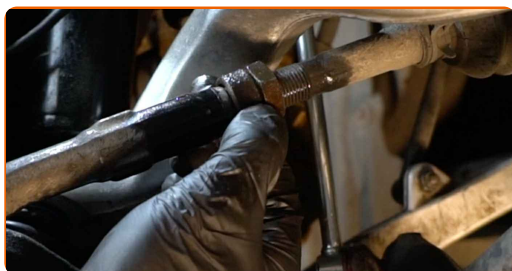
7

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



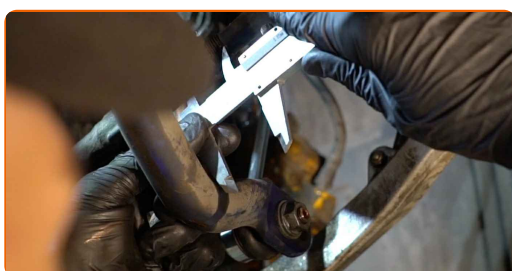
8

Pry off the clamp ring on the tie rod end. Use a crowbar. Use a hammer.



9

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.



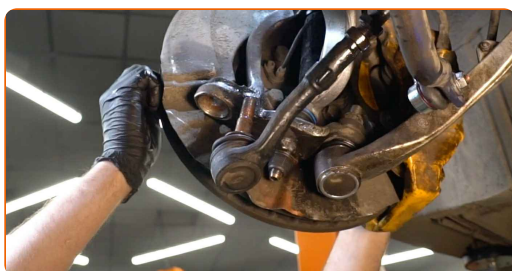
10

Unscrew the end fastening nut to the steering knuckle. Use a drive socket #21. Use a ratchet wrench.



11

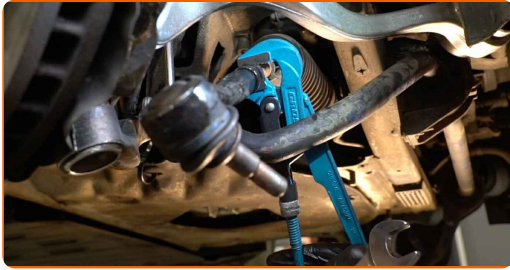
Disconnect the tie rod end from the steering knuckle.





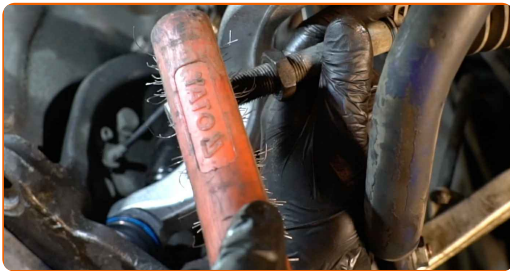
12

Screw the end out of the tie rod. Use a combination spanner #23. Use an adjustable wrench.



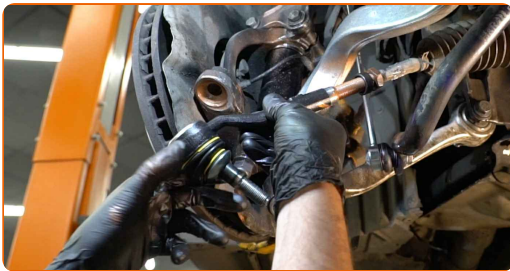
13

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



14

Screw on a new tie rod end.



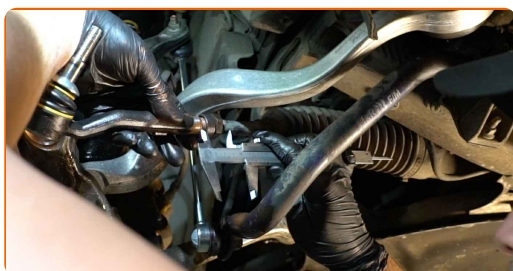
Replacement: track rod end – BMW E60. AUTODOC experts recommend:

- 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.

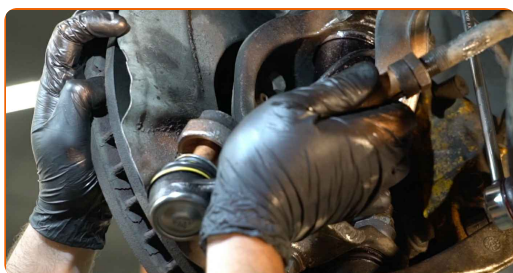
- 15 Push the clamp ring back into place on the tie rod end.



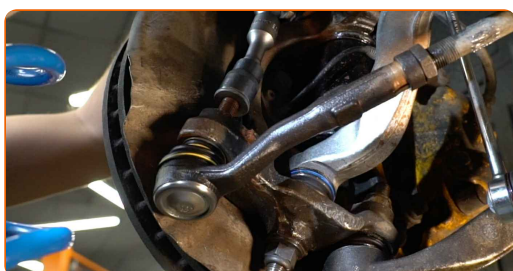
- 16 When deinstalling, mark or measure the precise position of the ball joint on the track rod, or count the number of turns in order to prevent misalignment afterward. Use a vernier caliper.



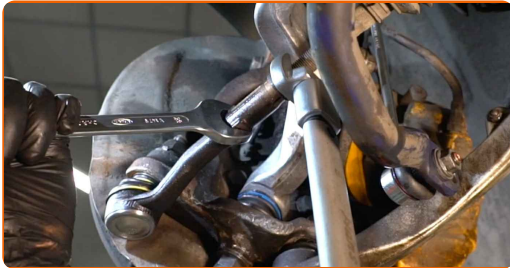
- 17 Connect the tie rod end to the steering knuckle.



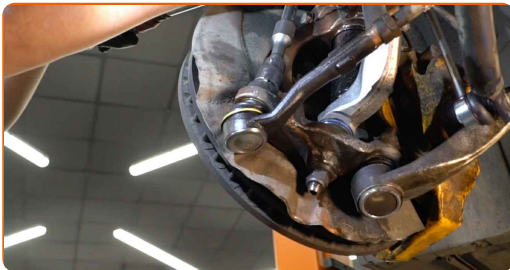
- 18 Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #21. Use a ratchet wrench.



- 19** Tighten the tie rod end locknut. Use a combination spanner #23. Use a combination spanner #24. Use a torque wrench. Tighten it to 51 nm torque.



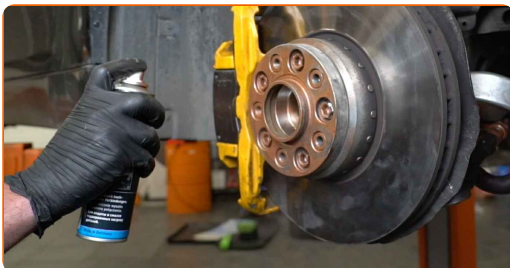
- 20** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #21. Use a torque wrench. Tighten it to 165 nm torque.



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



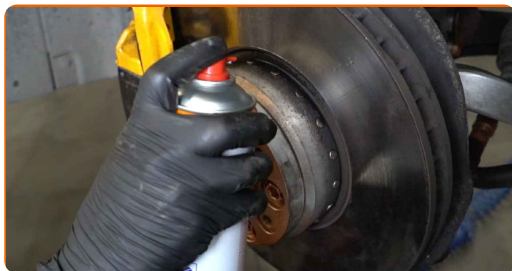
- 22** Treat the surface where the brake disc contacts the wheel rim. Use copper grease.





23

Clean the brake disk surface. Use a brake cleaner.

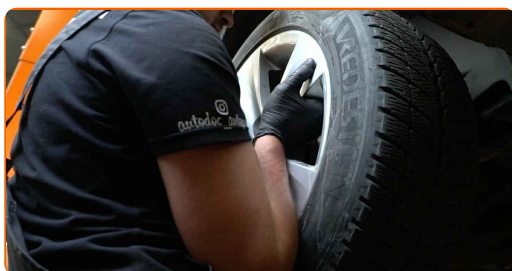


### AUTODOC recommends:

- Replacement: track rod end – BMW E60. After applying the spray, wait a few minutes.

24

Install the wheel.

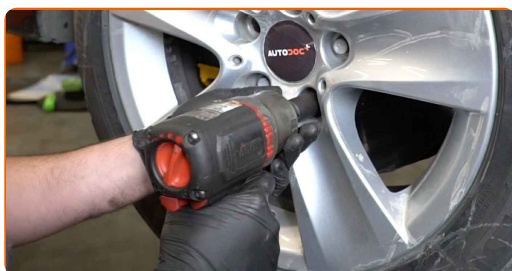


### Replacement: track rod end – BMW E60. Tip:

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

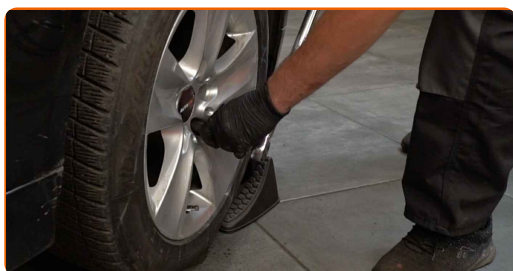
25

Screw in the wheel bolts. Use wheel impact socket #17.



26

Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 nm torque.

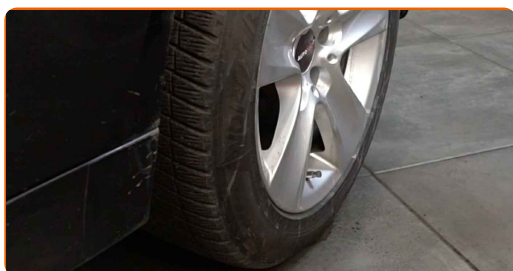


Replacement: track rod end – BMW E60. Tip from AUTODOC experts:

- Check and adjust wheel alignment if necessary.

27

Remove the jacks and chocks.



**WELL DONE!** 👍

**VIEW MORE TUTORIALS**