



How to change track rod
end on **BMW E46** –
replacement guide

VIDEO TUTORIAL



i Important!

This replacement procedure can be used for:

BMW 3 Saloon (E46) 328i 2.8, BMW 3 Saloon (E46) 320d 2.0, BMW 3 Saloon (E46) 323i 2.5, BMW 3 Saloon (E46) 320i 2.0, BMW 3 Coupe (E46) 323Ci 2.5, BMW 3 Coupe (E46) 328Ci 2.8, BMW 3 Saloon (E46) 316i 1.9, BMW 3 Touring (E46) 320i 2.0, BMW 3 Coupe (E46) 320Ci 2.0, BMW 3 Coupe (E46) 318Ci 1.9, BMW 3 Touring (E46) 318i 1.9, BMW 3 Touring (E46) 328i 2.8, BMW 3 Touring (E46) 320d 2.0, BMW 3 Saloon (E46) 330d 2.9, BMW 3 Touring (E46) 330d 2.9, (+ 41)

The steps may slightly vary depending on the car design.

REPLACEMENT: TRACK ROD END – BMW E46. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #13
- Combination spanner #22
- Combination spanner #24
- Drive socket # 18
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Hammer
- Vernier caliper
- Ball joint puller
- Wheel chock

[BUY TOOLS](#)

Replacement: track rod end – BMW E46. AUTODOC experts recommend:

- 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 – BMW E46 – 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 #17.

3

Raise the front of the car and secure on supports.



4

Unscrew the wheel bolts.



Replacement: track rod end – BMW E46. Tip:

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

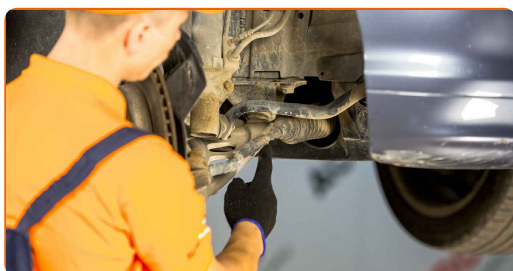
5

Remove the wheel.



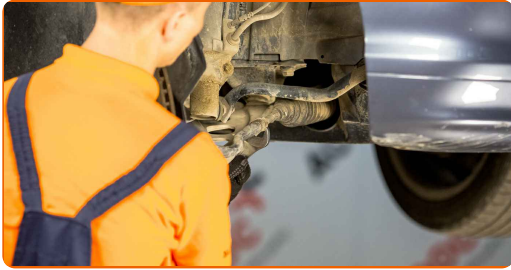
6

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.



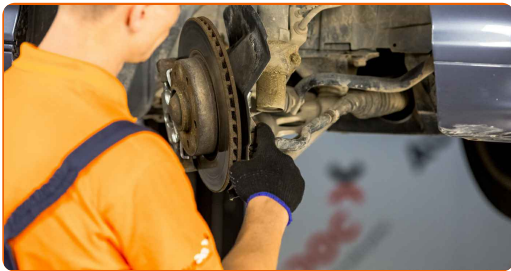
7

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



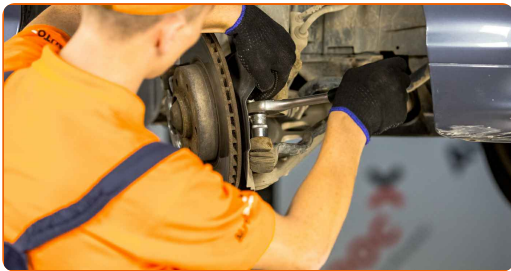
8

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



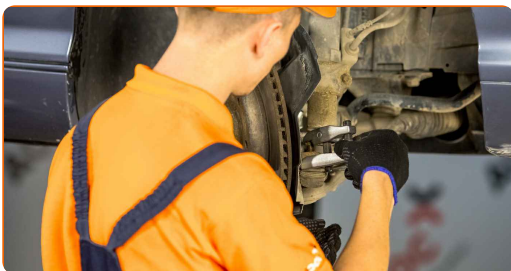
9

Unscrew the end fastening nut to the steering knuckle. Use a drive socket #18. Use a ratchet wrench.



10

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



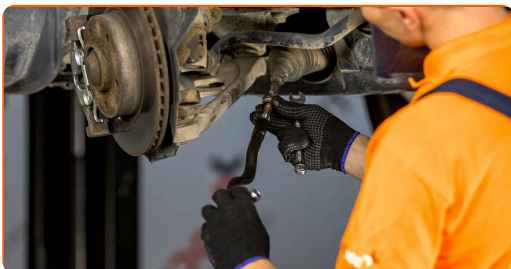
11

Screw the end out of the tie rod. Use a combination spanner #13. Use a combination spanner #22.



12

Screw on a new tie rod end.

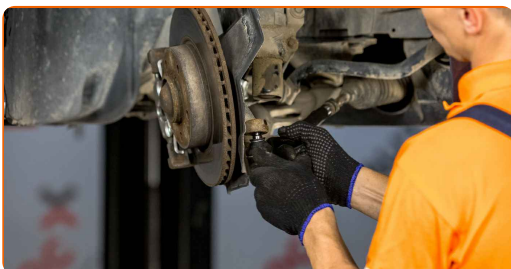


Replacement: track rod end – BMW E46. AUTODOC recommends:

- 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.

13

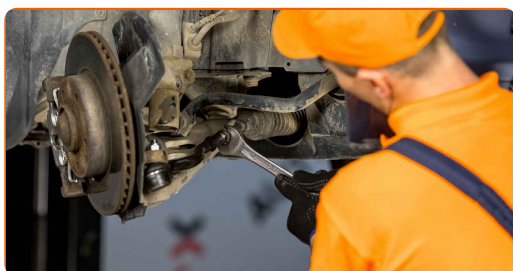
Connect the tie rod end to the steering knuckle.



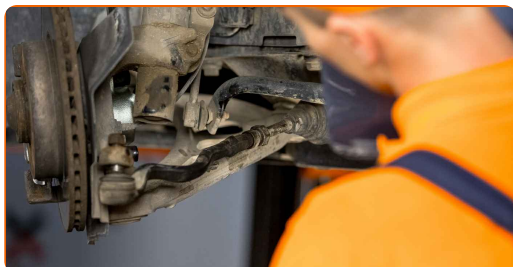
- 14 Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #18. Use a torque wrench. Tighten it to 65 nm torque.



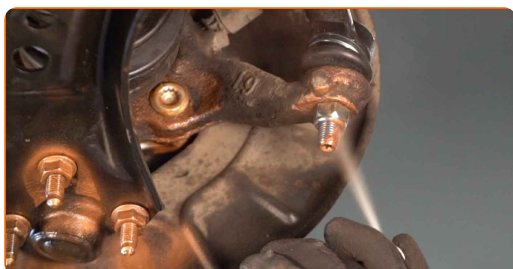
- 15 Tighten the tie rod end locknut. Use a combination spanner #24. Use a torque wrench. Tighten it to 55 nm torque.



- 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.

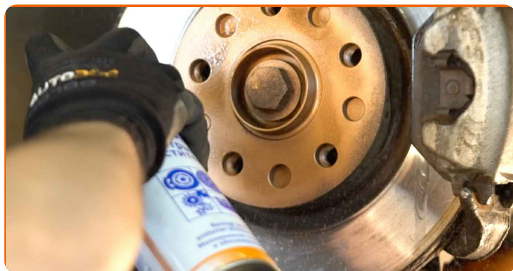


- 17 Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.



18

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



19

Clean the brake disk surface. Use a brake cleaner.



Replacement: track rod end – BMW E46. Tip from AUTODOC:

- After applying the spray, wait a few minutes.

20

Install the wheel.



AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. BMW E46

21

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



22

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 E46. Tip from AUTODOC experts:

- Check and adjust wheel alignment if necessary.

23

Remove the jacks and chocks.



WELL DONE! 

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