

VIDEO TUTORIAL



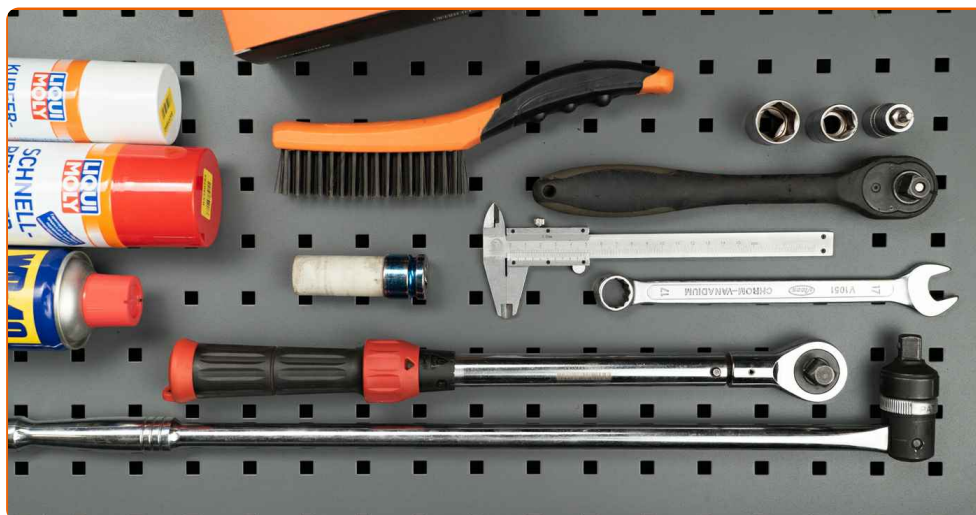
Important!

This replacement procedure can be used for:

BMW 3 Touring (E91) 325i 3.0, BMW 3 Touring (E91) 318d 2.0, BMW 3 Saloon (E90) 318d 2.0, BMW 1 Coupe (E82) M, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW Z4 Roadster (E89) sDrive 20 i, BMW Z4 Roadster (E89) sDrive 28 i, BMW X1 (E84) sDrive 20 i, BMW 1 Coupe (E82) 118d 2.0, BMW 3 Coupe (E92) 318i 2.0, BMW 3 Convertible (E93) 318i 2.0, BMW 3 Convertible (E93) 325d 3.0, BMW 1 Hatchback (E81) 116i 1.6, BMW 1 Hatchback (E81) 120d 2.0, (+ 109)

The steps may slightly vary depending on the car design.

REPLACEMENT: TRACK ROD END – BMW E92. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #17
- Drive socket # 17
- Drive socket # 21
- Torx bit T30
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Tap wrench
- Vernier caliper
- Wheel chock

BUY TOOLS

Replacement: track rod end – BMW E92. Tip from AUTODOC experts:

- 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.
- Please note: all work on the car – BMW E92 – 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.



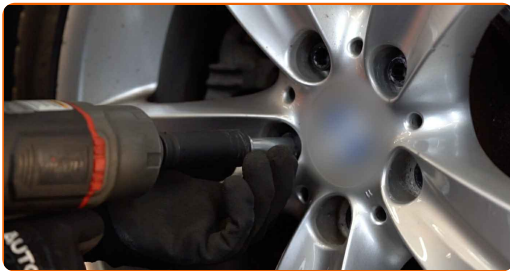
3

Raise the front of the car and secure on supports.



4

Unscrew the wheel bolts.



Replacement: track rod end – BMW E92. AUTODOC recommends:

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

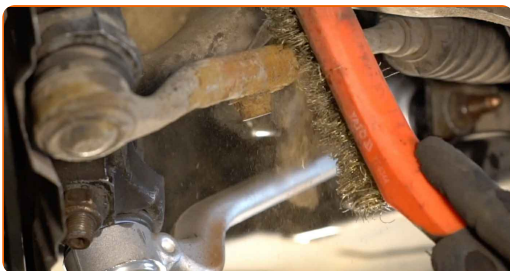
5

Remove the wheel.



6

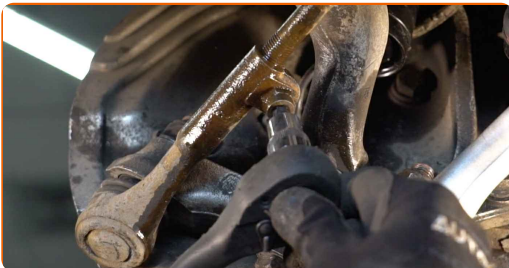
Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



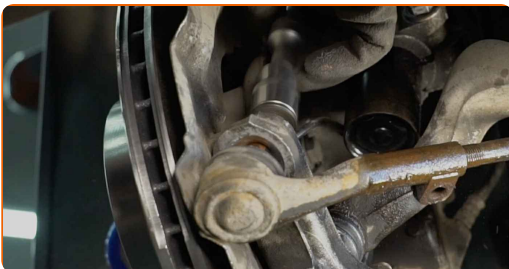
- 7 When deinstalling, mark or measure the precise position of the ball joint on the track rod, or count the number of turns in order to prevent misalignment afterward. Use a vernier caliper.



- 8 Unscrew the rod end fastening. Use Torx T30. Use a ratchet wrench.



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

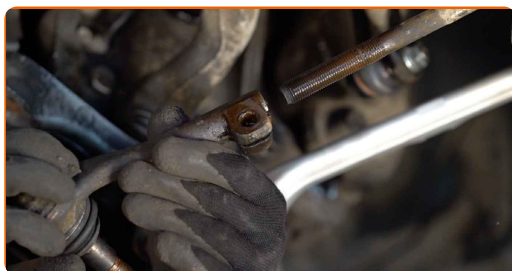


- 10 Disconnect the tie rod end from the steering knuckle.



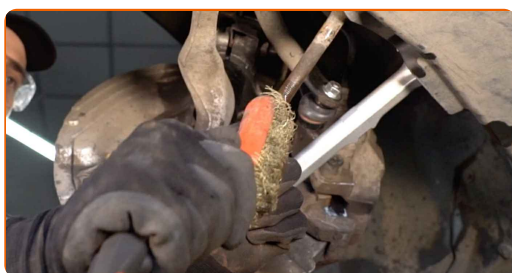
11

Screw the end out of the tie rod. Use a combination spanner #17.



12

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



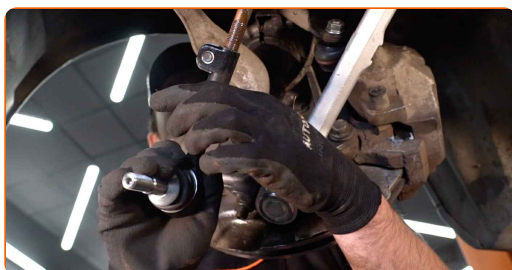
13

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



14

Screw on a new tie rod end.



Replacement: track rod end – BMW E92. Tip:

- 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.

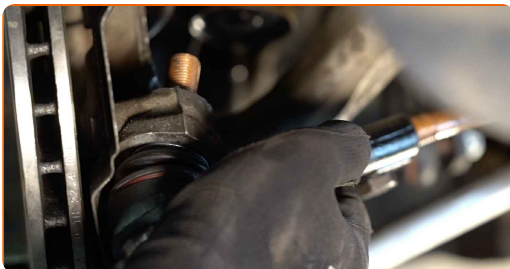
- 15** When deinstalling, mark or measure the precise position of the ball joint on the track rod, or count the number of turns in order to prevent misalignment afterward. Use a vernier caliper.



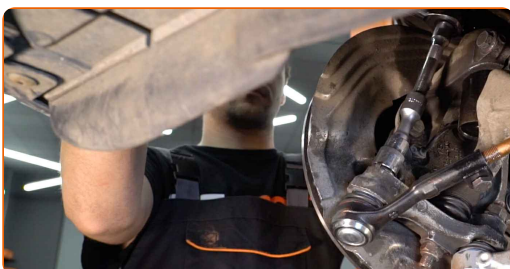
- 16** Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.



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



- 18** 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 80 nm torque.



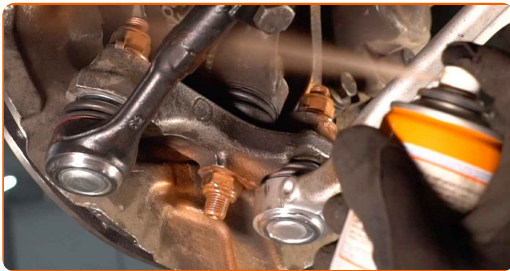
19

Tighten the rod end fastening. Use a drive socket #17. Use a torque wrench. Tighten it to 40 nm torque.



20

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



21

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



22

Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: track rod end – BMW E92. After applying the spray, wait a few minutes.

23

Install the wheel.

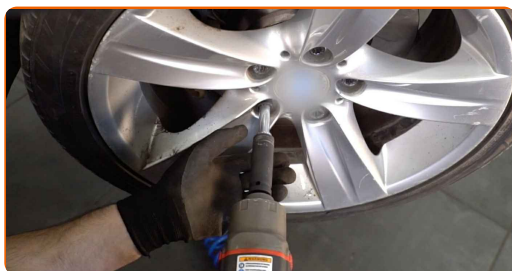


Replacement: track rod end – BMW E92. Tip from AUTODOC:

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

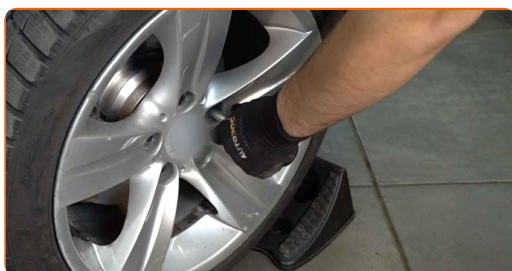
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Screw in the wheel bolts. Use wheel impact socket #17.



25

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

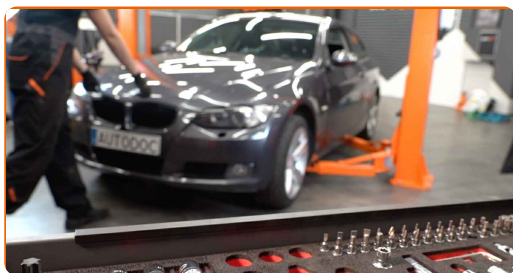


Replacement: track rod end – BMW E92. Tip:

- Check and adjust wheel alignment if necessary.

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Remove the jacks and chocks.



WELL DONE! 

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