





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:

BMW 3 Touring (E91) 325i 3.0, BMW 3 Touring (E91) 318d 2.0, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW 3 Touring (E91) 320i 2.0, BMW 3 Touring (E91) 325i 2.5, BMW 3 Touring (E91) 330i 3.0, BMW 3 Touring (E91) 320d 2.0, BMW 3 Touring (E91) 330d 3.0, BMW 3 Touring (E91) 325xi 2.5, BMW 3 Touring (E91) 335i 3.0, BMW 3 Touring (E91) 335d 3.0, BMW 3 Touring (E91) 325d 3.0, BMW 3 Touring (E91) 325i 2.5, BMW 3 Touring (E91) 316i 1.6, (+1)

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: BMW 3 Saloon (E90) 318i 2.0

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REPLACEMENT: TRACK ROD END – BMW 3 TOURING (E91). TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #21
- Drive socket # 16
- Torx bit T40

- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Vernier caliper
- Hammer
- Wheel chock

Buy tools

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Replacement: track rod end – BMW 3 Touring (E91). AUTODOC experts recommend:

- 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 3 Touring (E91) 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.

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Unscrew the wheel bolts.

4



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
 BMW 3 Touring (E91)
- Remove the wheel.



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



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Unscrew the end fastening nut to the steering knuckle. Use a combination spanner #21. Use Torx T40. Use a ratchet wrench.



Unscrew the rod end fastening. Use a drive socket #16. Use a ratchet wrench.



- Disconnect the tie rod end from the steering knuckle. Use a hammer.
- Spread the ears for the pinch bolt on the tie rod end. Use a flat screwdriver. Use a hammer.



Screw the end out of the tie rod.



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



Screw on a new tie rod end.



Replacement: track rod end – BMW 3 Touring (E91). Tip from AUTODOC experts:

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



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Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a combination spanner #21. Use Torx T40. Use a torque wrench. Tighten it to 165 nm torque.



AUTODOC recommends:

- Important! Be sure to use new fasteners.
- Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.



18

Tighten the rod end fastening. Use a drive socket #16. Use a torque wrench. Tighten it to 40 nm torque.



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



Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

 Replacement: track rod end – BMW 3 Touring (E91). After applying the spray, wait a few minutes.

21 In

Install the wheel.



AUTODOC recommends:

 Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW 3 Touring (E91)

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



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 3 Touring (E91). AUTODOC experts recommend:

· Check and adjust wheel alignment if necessary.

Remove the jacks and chocks.





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