



How to change track rod  
end on **FIAT Doblo  
Estate (119\_, 223\_)** –  
replacement guide

### SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

#### **Important!**

This replacement procedure can be used for:

FIAT Doblo Estate (119\_, 223\_) 1.2, FIAT Doblo Estate (119\_, 223\_) 1.9 D, FIAT Doblo Estate (119\_, 223\_) 1.9 JTD, FIAT Doblo Estate (119\_, 223\_) 1.6 16V, FIAT Doblo Estate (119\_, 223\_) 1.3 D Multijet, FIAT Doblo Estate (119\_, 223\_) 1.9 D Multijet, FIAT Doblo Estate (119\_, 223\_) 1.4, FIAT Doblo Estate (119\_, 223\_) 1.6 Natural Power, FIAT Doblo Estate (119\_, 223\_) 1.6, FIAT Doblo Estate (119\_, 223\_) 1.3 JTD, FIAT Doblo Estate (119\_, 223\_) 1.3 JTD 16V, FIAT Doblo Estate (119\_, 223\_) 1.6 Natural Power (223AXD1A)

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: FIAT Doblo Cargo (223\_) 1.3 D Multijet

REPLACEMENT: TRACK ROD END – FIAT DOBLO ESTATE (119\_, 223\_). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # 17
- Combination spanner #22
- Wheel impact socket #17
- Torque wrench
- Tap wrench
- Ball joint puller
- Vernier caliper
- Wheel chock

**Buy tools**

Replacement: track rod end – FIAT Doblo Estate (119\_, 223\_). AUTODOC recommends:

- 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.
- All work should be done with the engine stopped.

## REPLACEMENT: TRACK ROD END – FIAT DOBLO ESTATE (119\_, 223\_). RECOMMENDED SEQUENCE OF STEPS:

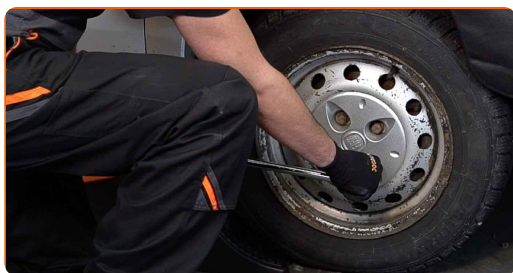
1

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.

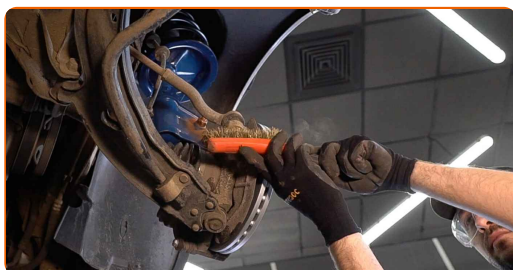
**AUTODOC recommends:**

- Important! Hold the wheel while unscrewing the fastening bolts. FIAT Doblo Estate (119\_, 223\_)

**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.

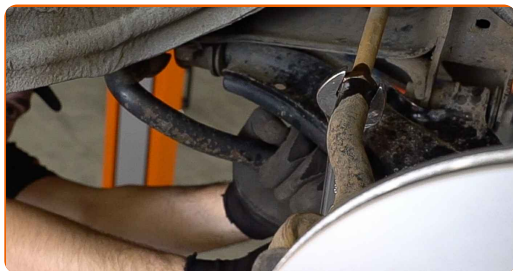


**7** When deinstalling, mark or measure the precise position of the ball joint on the track rod, or count the number of turns in order to prevent misalignment afterward. Use a vernier caliper.



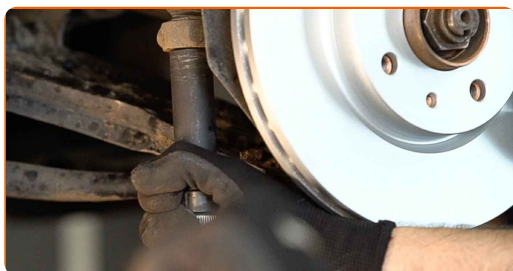
8

Loosen the lock nut securing the tie rod end to the tie rod. Use a combination spanner #22.



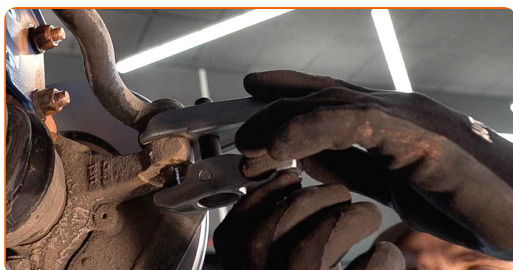
9

Unscrew the end fastening nut to the steering knuckle. Use a drive socket #17. Use a tap wrench.



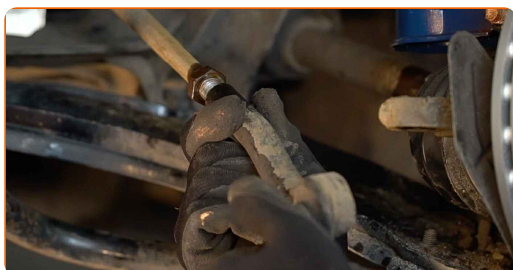
10

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



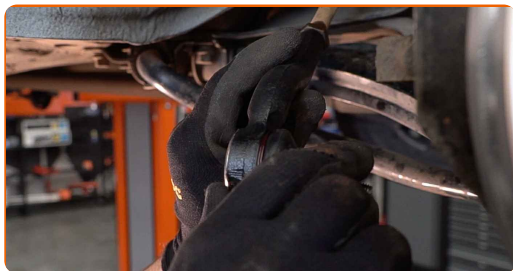
11

Screw the end out of the tie rod.



12

Screw on a new tie rod end.



Replacement: track rod end – FIAT Doblo Estate (119\_, 223\_). 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.

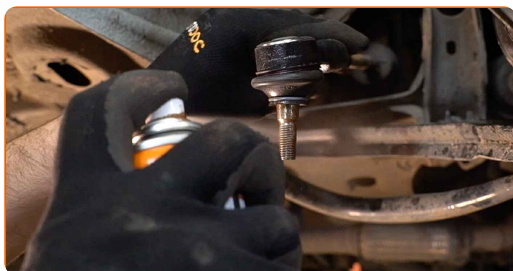
13

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

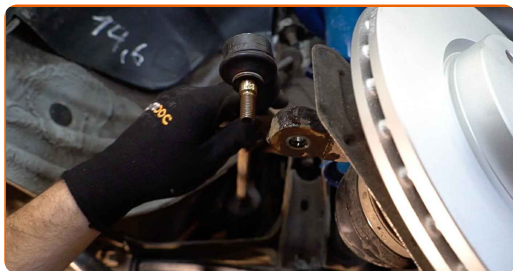


14

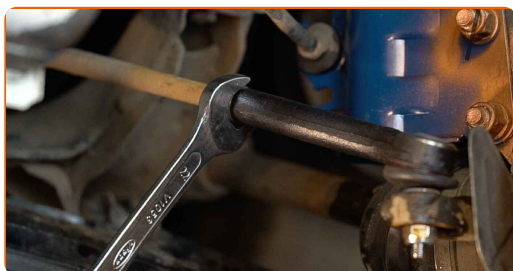
Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.



**15** Connect the tie rod end to the steering knuckle. Use a drive socket #17.



**16** Screw on the tie rod end jam nut. Use a combination spanner #22.



**17** Tighten the tie rod end locknut. Use a combination spanner #22. Use a torque wrench. Tighten it to 85 nm torque.

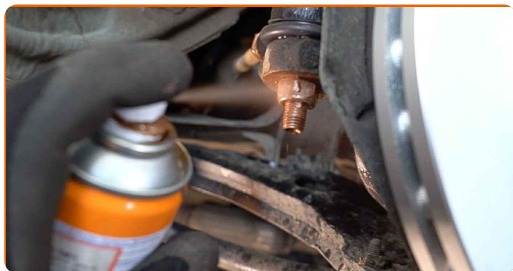


**18** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 49 nm torque.





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



**20** Clean the wheel rim mounting seat. Use a wire brush.

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



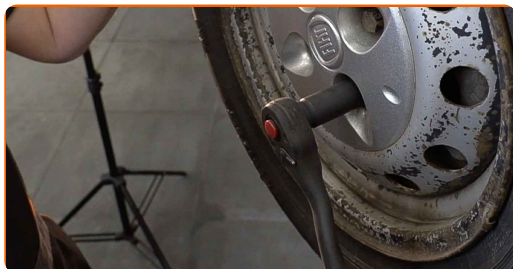
**22** Install the wheel.



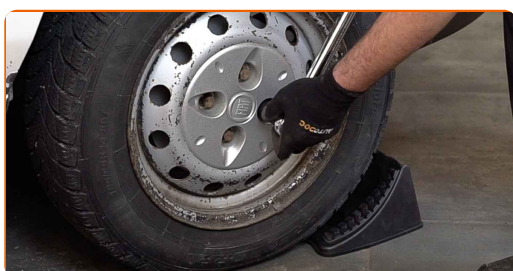
Replacement: track rod end – FIAT Doblo Estate (119\_, 223\_). Tip from AUTODOC:

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

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



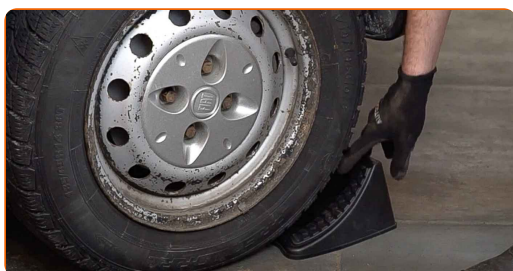
**24** Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 98 nm torque.



Replacement: track rod end – FIAT Doblo Estate (119\_, 223\_). Professionals recommend:

- Check and adjust wheel alignment if necessary.

**25** Remove the jacks and chocks.



**WELL DONE!** 

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