



How to change track rod  
end on **VW Passat B5 GP**  
**Saloon (3BG, 3B3)** –  
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:

VW Passat B5 GP Saloon (3BG, 3B3) 1.6, VW Passat B5 GP Saloon (3BG, 3B3) 1.9 TDI, VW Passat B5 GP Saloon (3BG, 3B3) 2.3 V5, VW Passat B5 GP Saloon (3BG, 3B3) 2.0, VW Passat B5 GP Saloon (3BG, 3B3) 2.5 TDI, VW Passat B5 GP Saloon (3BG, 3B3) 1.8 T 20V, VW Passat B5 GP Saloon (3BG, 3B3) 2.8 4motion, VW Passat B5 GP Saloon (3BG, 3B3) 2.5 TDI 4motion, VW Passat B5 GP Saloon (3BG, 3B3) 1.9 TDI 4motion, VW Passat B5 GP Saloon (3BG, 3B3) 2.0 4motion, VW Passat B5 GP Saloon (3BG, 3B3) 2.3 V5 4motion, VW Passat B5 GP Saloon (3BG, 3B3) 4.0 W8 4motion, VW Passat B5 GP Saloon (3BG, 3B3) 2.0 TDI

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: VW Passat B5 GP Estate (3BG, 3B6) 1.9 TDI

**REPLACEMENT: TRACK ROD END – VW PASSAT B5 GP SALOON (3BG, 3B3). TOOLS YOU MIGHT NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- Combination spanner #22
- Drive socket # 13
- Drive socket # 15
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Hammer
- Flat chisel
- Vernier caliper
- Wheel chock

**Buy tools**

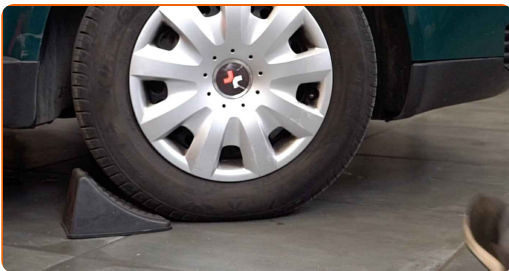
Replacement: track rod end – VW Passat B5 GP Saloon (3BG, 3B3). AUTODOC experts recommend:

- 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 – VW Passat B5 GP Saloon (3BG, 3B3) – 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 – VW Passat B5 GP Saloon (3BG, 3B3). Tip:

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

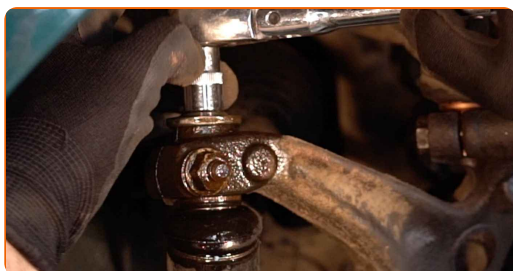
**5** Remove the wheel.



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



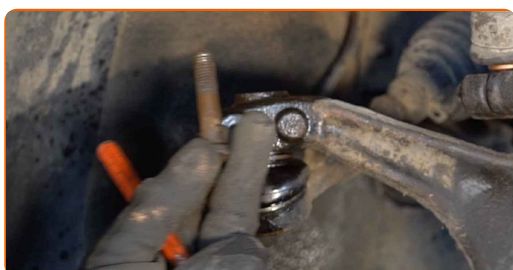
**7** Unscrew the end fastening nut to the steering knuckle. Use a drive socket #13. Use a ratchet wrench.



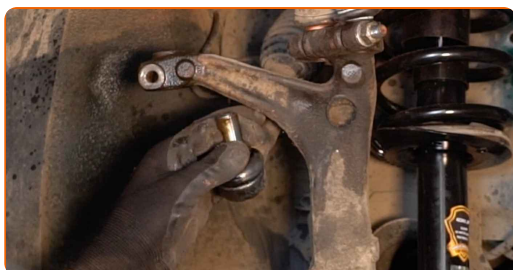
**8** Unscrew the end fastening nut to the steering knuckle. Use a drive socket #15. Use a ratchet wrench.



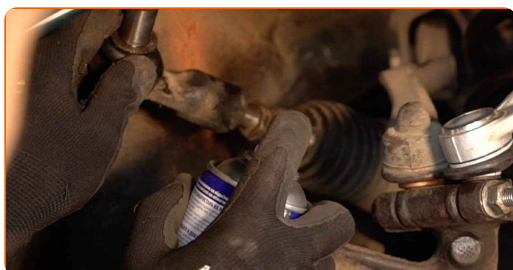
**9** Remove the fastening bolt.



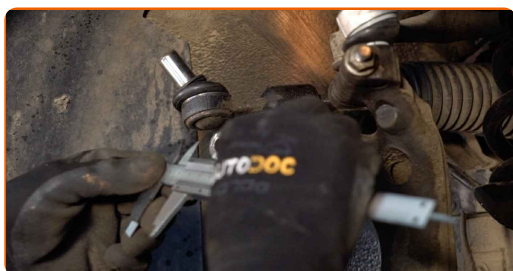
**10** Disconnect the tie rod end from the steering knuckle. Use a flat metal-working chisel. Use a hammer.



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



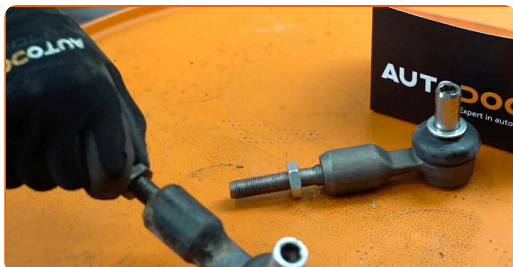
- 12 When deinstalling, mark or measure the precise position of the ball joint on the track rod, or count the number of turns in order to prevent misalignment afterward. Use a vernier caliper.



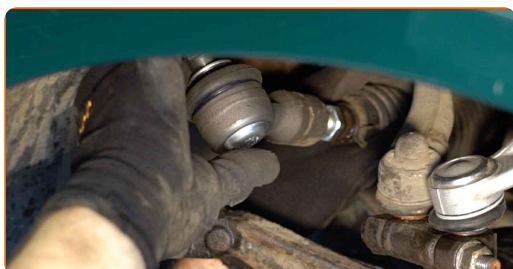
- 13 Loosen the lock nut securing the tie rod end to the tie rod. Use a combination spanner #18. Use a combination spanner #22.



- 14 Screw the end out of the tie rod.



- 15 Screw on a new tie rod end.



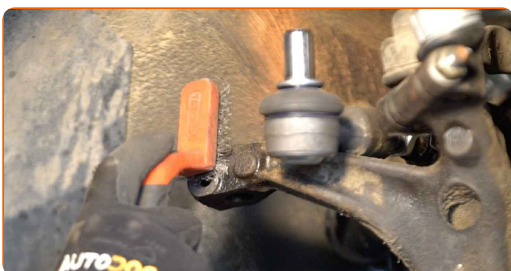
Replacement: track rod end – VW Passat B5 GP Saloon (3BG, 3B3). AUTODOC recommends:

- 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.

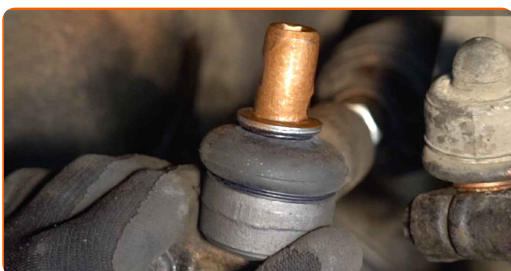
**16** When deinstalling, mark or measure the precise position of the ball joint on the track rod, or count the number of turns in order to prevent misalignment afterward. Use a vernier caliper.



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

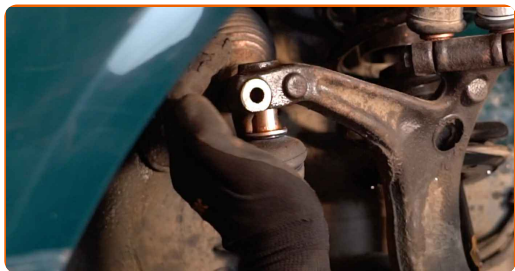


**18** Treat the threaded part of the tie rod. Use copper grease.

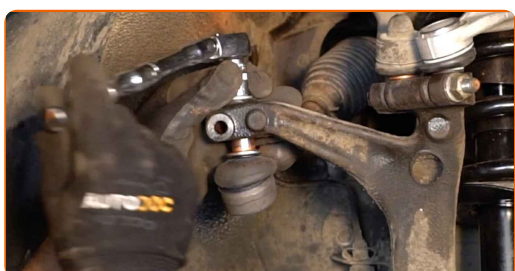




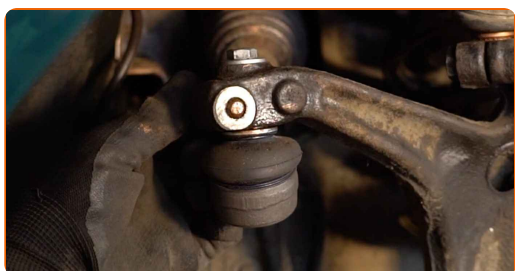
**19** Connect the tie rod end to the steering knuckle.



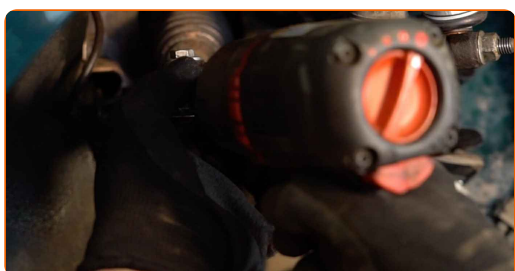
**20** Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #13. Use a ratchet wrench.



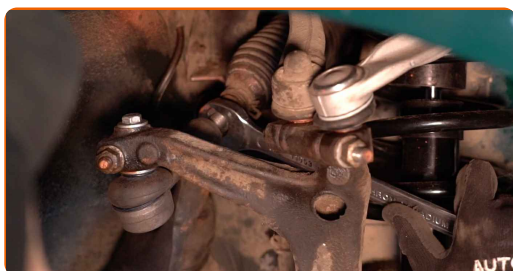
**21** Install the fastening bolt.



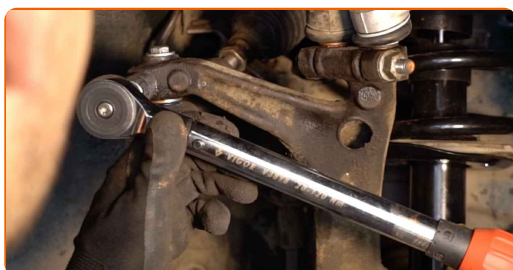
**22** Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #15. Use a ratchet wrench.



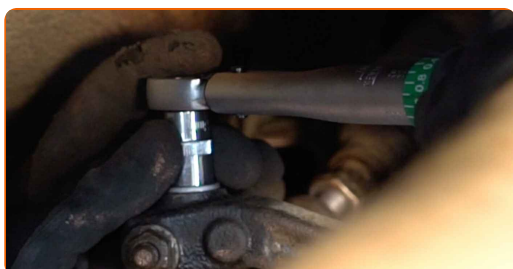
- 23** Tighten the tie rod end locknut. Use a combination spanner #18. Use a combination spanner #22. Use a torque wrench. Tighten it to 40 nm torque.



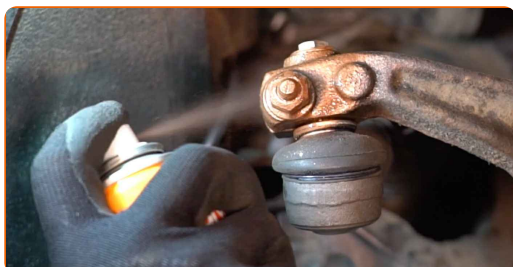
- 24** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #15. Use a torque wrench. Tighten it to 45 nm torque.



- 25** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #13. Use a torque wrench. Tighten it to 7 nm torque.

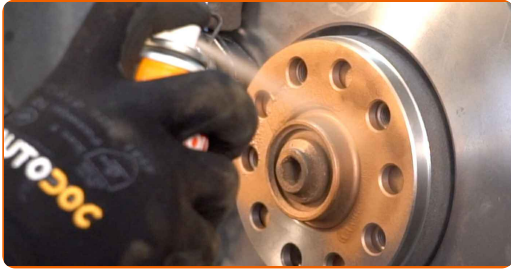


- 26** Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.



**27**

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



**28**

Clean the brake disk surface. Use a brake cleaner.

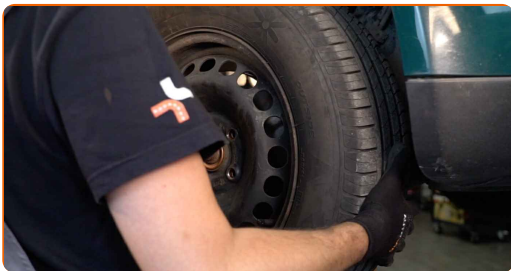


**AUTODOC recommends:**

- Replacement: track rod end – VW Passat B5 GP Saloon (3BG, 3B3). After applying the spray, wait a few minutes.

**29**

Install the wheel.



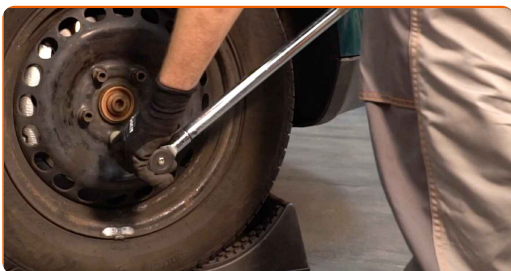
**Replacement: track rod end – VW Passat B5 GP Saloon (3BG, 3B3).  
Professionals recommend:**

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

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



**31** 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 – VW Passat B5 GP Saloon (3BG, 3B3). Tip from AUTODOC experts:

- Check and adjust wheel alignment if necessary.

**32** Remove the jacks and chocks.



**WELL DONE!** 

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