



How to change rear anti  
roll bar links on **BMW 6**  
**Coupe (E63)** –  
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:

BMW 6 Coupe (E63) 645Ci 4.4, BMW 6 Coupe (E63) 630i 3.0, BMW 6 Coupe (E63) 650i 4.8, BMW 6 Coupe (E63) M, BMW 6 Coupe (E63) 635d 3.0, BMW 6 Coupe (E63) 630i 3.0 (N52B30A, N52B30B, N52B30BF)

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 5 Saloon (E60) 525d 2.5

REPLACEMENT: ANTI ROLL BAR LINKS – BMW 6 COUPE (E63). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #15
- Combination spanner #16
- Combination spanner #17
- Combination spanner #18
- Drive socket # 15
- Drive socket # 16
- HEX bit no.H6.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Wheel chock

**Buy tools**

Replacement: anti roll bar links – BMW 6 Coupe (E63). AUTODOC experts recommend:

- Replace the stabiliser links on BMW 6 Coupe (E63) in pairs.
- The replacement procedure is identical for both stabiliser links on the same axle.
- All work should be done with the engine stopped.

## REPLACEMENT: ANTI ROLL BAR LINKS – BMW 6 COUPE (E63). RECOMMENDED SEQUENCE OF STEPS:

1

Secure the wheels with chocks.



2

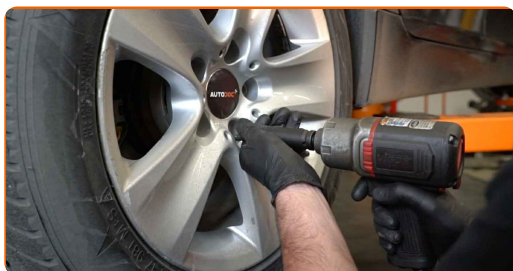
Loosen the wheel mounting bolts. Use wheel impact socket #17.



3

Raise the rear of the car and secure on supports.

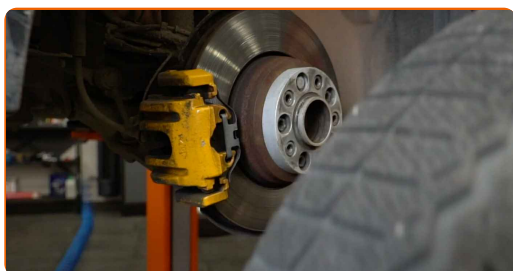
**4** Unscrew the wheel bolts.



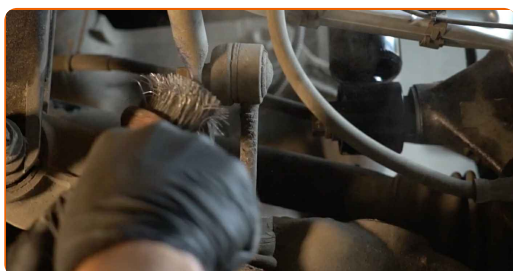
**AUTODOC recommends:**

- Important! Hold the wheel while unscrewing the fastening bolts. BMW 6 Coupe (E63)

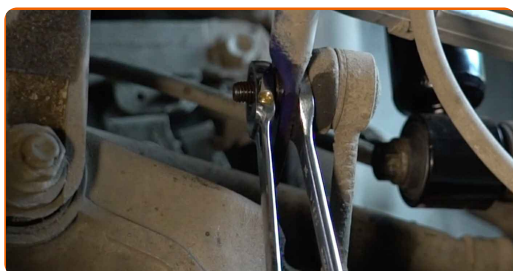
**5** Remove the wheel.



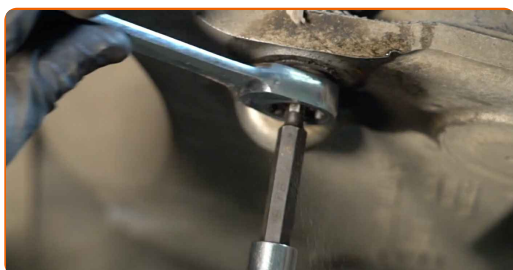
**6** Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



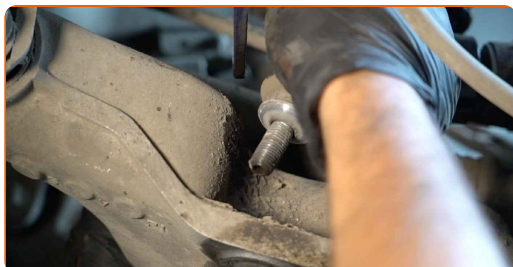
- 7** Unscrew the fastener connecting the stabilizer link to the stabilizer bar. Use a combination spanner #15. Use a combination spanner #16.



- 8** Unscrew the fastener connecting the stabilizer bar with the control arm. Use a combination spanner #18. Use HEX No.H6. Use a ratchet wrench.



- 9** Remove the stabilizer rod.

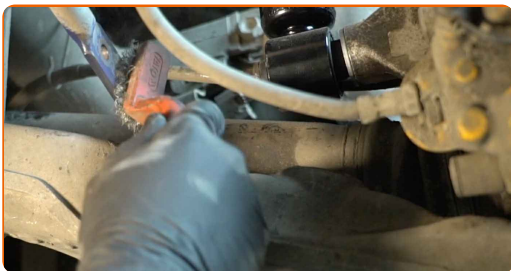


Replacement: anti roll bar links – BMW 6 Coupe (E63). Tip from AUTODOC experts:

- Examine stabiliser bushes. Replace them if needed.

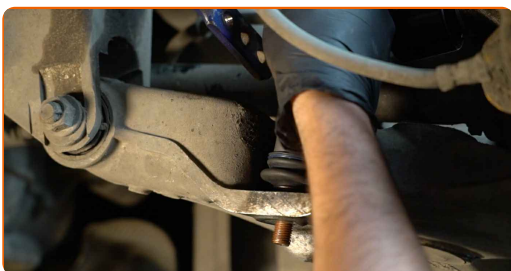
10

Clean the mounting seats of the stabiliser link. Use a wire brush. Use WD-40 spray.



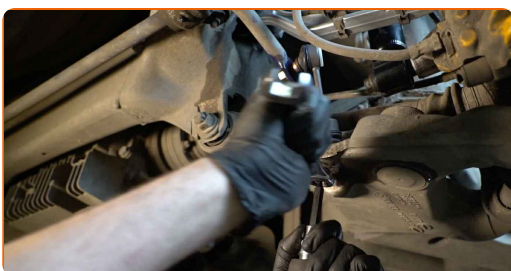
11

Install the transverse stabilizer link.



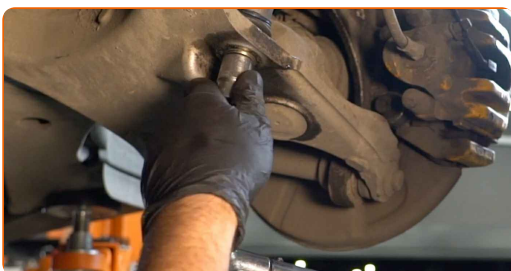
12

Tighten the stabiliser link fastener. Use a combination spanner #15. Use a combination spanner #17. Use a combination spanner #18. Use HEX No.H6. Use a ratchet wrench.



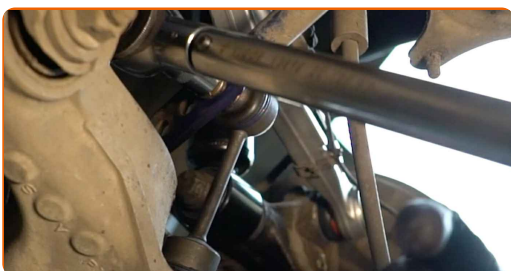
13

Tighten the fastener connecting the stabilizer bar with the control arm. Use a drive socket #18. Use a torque wrench. Tighten it to 100 Nm torque.

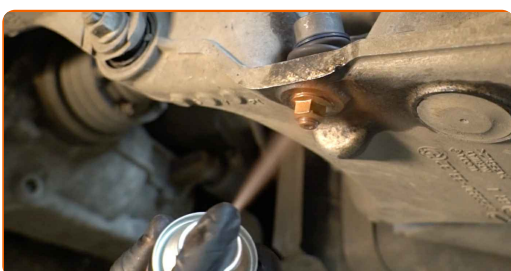




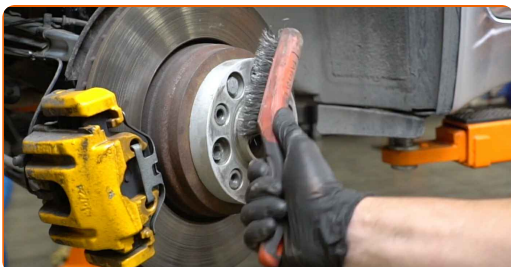
- 14 Tighten the fastener connecting the stabilizer link to the stabilizer bar. Use a drive socket #16. Use a torque wrench. Tighten it to 65 Nm torque.



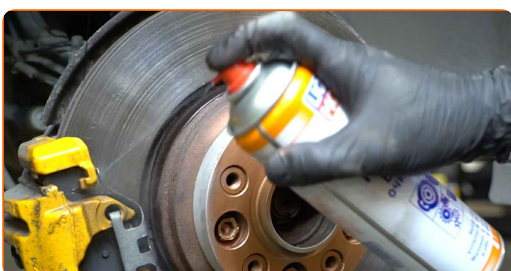
- 15 Treat all joints of the stabiliser link. Use copper grease.



- 16 Clean the wheel rim mounting seat. Use a wire brush. Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



- 17 Clean the brake disk surface. Use a brake cleaner.





**AUTODOC recommends:**

- Replacement: anti roll bar links – BMW 6 Coupe (E63). After applying the spray, wait a few minutes.

**18**

Install the wheel.



**Replacement: anti roll bar links – BMW 6 Coupe (E63). AUTODOC experts recommend:**

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

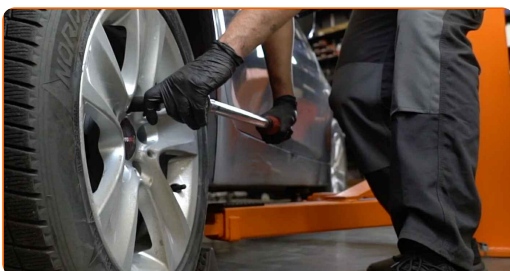
**19**

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



**20**

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.



21

Remove the jacks and chocks.



**WELL DONE!** 

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