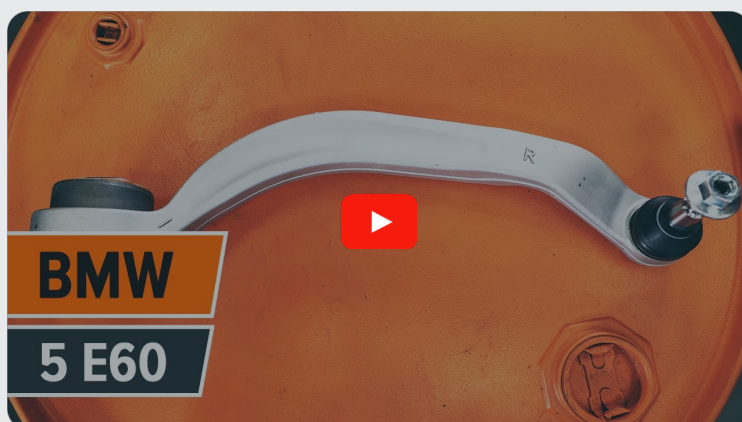




How to change rear  
lower arm on **BMW 6**  
**Coupe (E63)** –  
replacement guide

## SIMILAR VIDEO TUTORIAL



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

### Important!

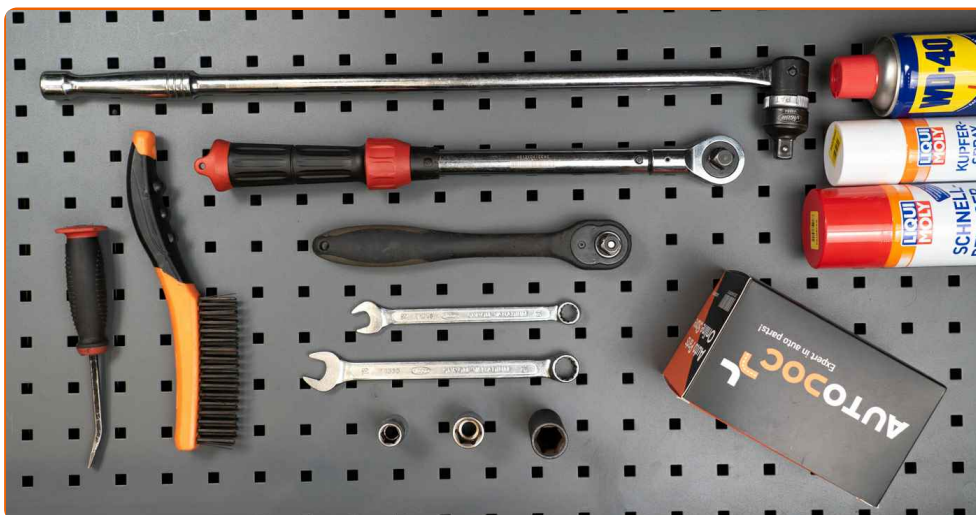
This replacement procedure can be used for:

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

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) 520d 2.0

REPLACEMENT: REAR LOWER ARM – BMW 6 COUPE (E63). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- Combination spanner #21
- Drive socket # 10
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Crow bar
- Hydraulic transmission jack
- Wheel chock

**Buy tools**

Replacement: rear lower arm – BMW 6 Coupe (E63). Tip from AUTODOC experts:

- The replacement procedure is identical for the right and left upper control arms.
- Please note: all work on the car – BMW 6 Coupe (E63) – should be done with the engine switched off.

**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

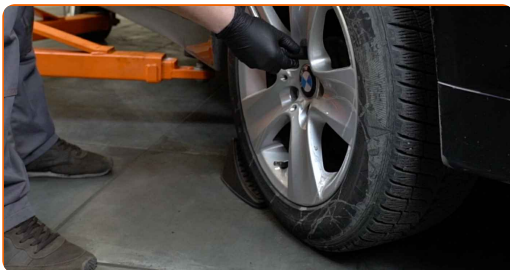
1

Secure the wheels with chocks.



2

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



3

Raise the rear of the car and secure on supports.

4

Unscrew the wheel bolts.



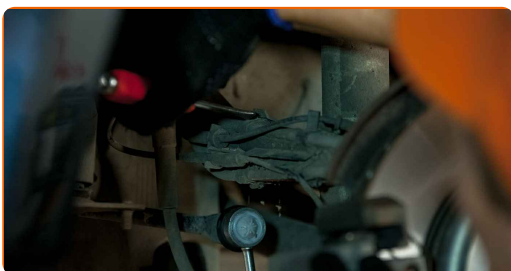
Replacement: rear lower arm – BMW 6 Coupe (E63). Tip:

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

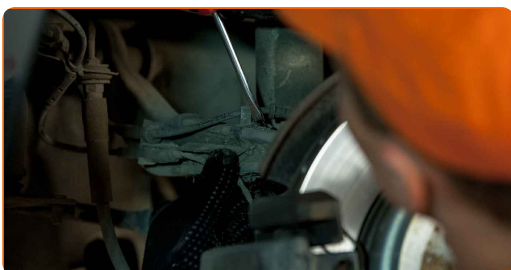
**5** Remove the wheel.



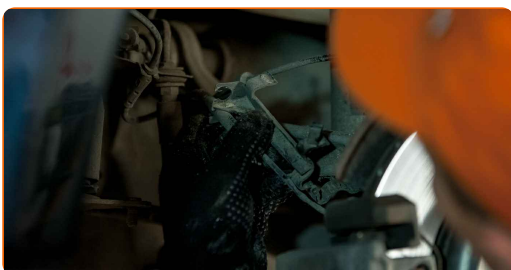
**6** Disconnect the ABS sensor wiring. Use a flat screwdriver.



**7** Disconnect the brake pad wear sensor cable. Use a flat screwdriver.



**8** Remove the mounting bracket of the ABS sensor wiring from the upper arm. Use a flat screwdriver.

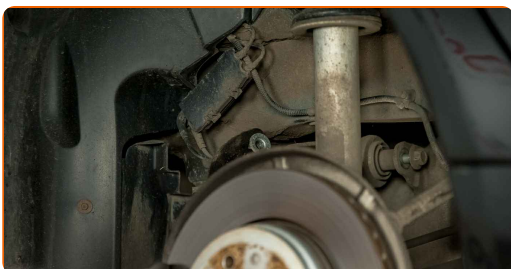


**9** Clean all joints of the arm. Use a wire brush. Use WD-40 spray.

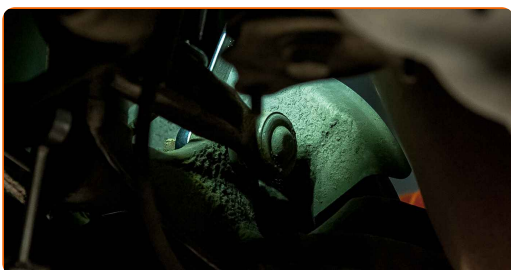
**10** Unscrew the front arm fastener. Use a combination spanner #18 (2 pieces).



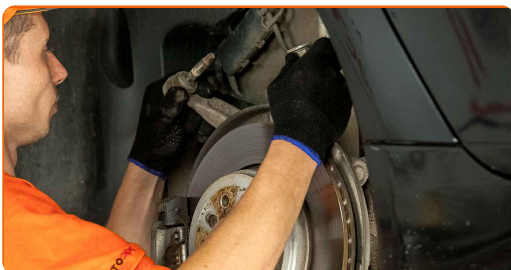
**11** Remove the front fastener of the control arm. Use a crowbar. Use a flat screwdriver.



**12** Unscrew the fastener connecting the control arm to the rear knuckle. Use a combination spanner #21. Use a drive socket #10. Use a ratchet wrench.



**13** Detach the suspension arm from the rear knuckle.

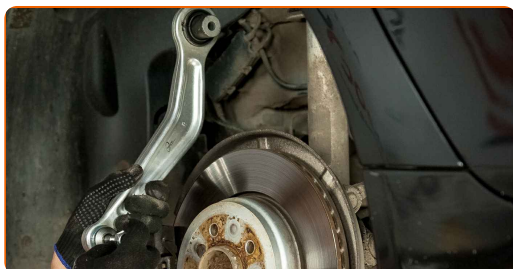


**14** Remove the arm.



**15** Clean the mounting seats and the thread of the suspension arm. Use a wire brush. Use WD-40 spray.

**16** Install a new arm.

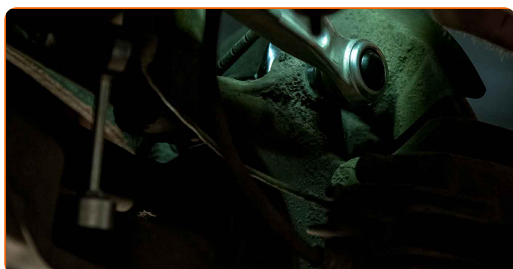


Replacement: rear lower arm – BMW 6 Coupe (E63). AUTODOC recommends:

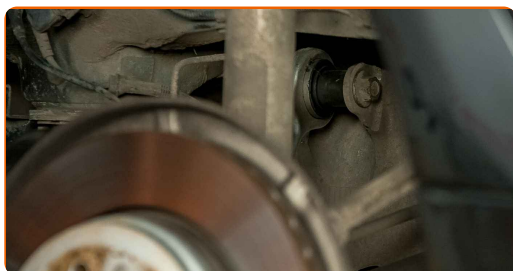
- During the installation process, use only new bolts and nuts.
- Do not damage the ball joint cover.

**17** Attach the suspension arm to the rear knuckle.

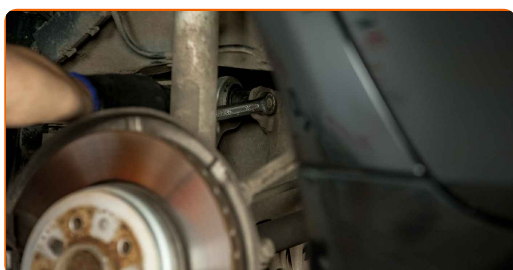
**18** Tighten the fastener connecting the suspension arm to the rear knuckle. Use a combination spanner #21. Use a drive socket #10. Use a torque wrench. Tighten it to 165 Nm torque.



**19** Install the front fastener of the arm.



**20** Screw the front arm fastener. Use a combination spanner #18 (2 pieces).



**21** Support the stub axle. Use a hydraulic transmission jack.

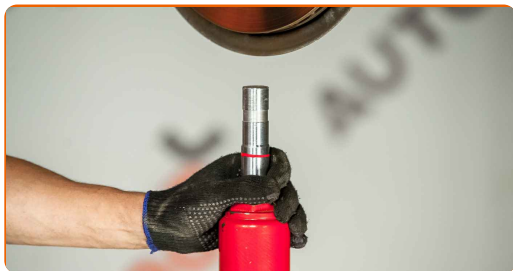


**22** Tighten the front fastener connecting the control arm to the subframe. Use a combination spanner #18 (2 pieces). Use a torque wrench. Tighten it to 100 Nm torque.





**23** Remove the support from under the stub axle.



**AUTODOC recommends:**

- Replacement: rear lower arm – BMW 6 Coupe (E63). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

**24** Install the mounting bracket of the ABS sensor wiring onto the upper arm.



**25** Connect the brake pad wear sensor cable.

**26** Connect the ABS sensor wiring.



**27** Treat all joints of the arm. Use copper grease.



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



**29** Clean the brake disk surface. Use a brake cleaner.



Replacement: rear lower arm – BMW 6 Coupe (E63). AUTODOC experts recommend:

- After applying the spray, wait a few minutes.

**30** Install the wheel.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW 6 Coupe (E63)

**31**

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



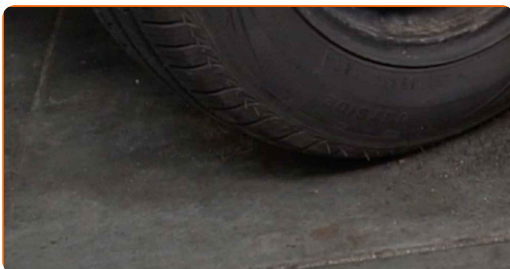
**32**

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.



**33**

Remove the jacks and chocks.



**WELL DONE!** 

**VIEW MORE TUTORIALS**

# AUTODOC – TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE

**AUTODOC MOBILE APP: GREAT DEALS AND CONVENIENT SHOPPING**



**+ AUTODOC**

GET IT ON  
**Google Play**

Download on the  
**App Store**

**Download**

**A GREAT SELECTION OF SPARE PARTS FOR YOUR CAR**

**CONTROL ARM: A WIDE SELECTION**

## **DISCLAIMER:**

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AutoDoc shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AutoDoc shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AutoDoc shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AutoDoc strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.

© Copyright 2023 – All the contents of this website, in particular texts, photographs and graphics, are protected by copyright. All rights, including reproduction, publication, editing and translation rights, are reserved by Autodoc SE.