



How to change front  
lower arm on **BMW 5**  
**Touring (E39)** –  
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 5 Touring (E39) 520i 2.0, BMW 5 Touring (E39) 523i 2.5, BMW 5 Touring (E39) 528i 2.8, BMW 5 Touring (E39) 530d 3.0, BMW 5 Touring (E39) 525tds 2.5, BMW 5 Touring (E39) 520d 2.0, BMW 5 Touring (E39) 525d 2.5, BMW 5 Touring (E39) 520i 2.2, BMW 5 Touring (E39) 525i 2.5, BMW 5 Touring (E39) 530i 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 (E39) 520i 2.0

REPLACEMENT: FRONT LOWER ARM – BMW 5  
TOURING (E39). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- Drive socket # 16
- Drive socket # 18
- Drive socket # 22
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Ball joint puller
- Hydraulic transmission jack
- Wheel chock

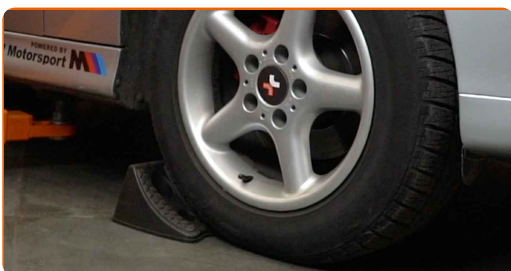
**Buy tools**

Replacement: front lower arm – BMW 5 Touring (E39). AUTODOC recommends:

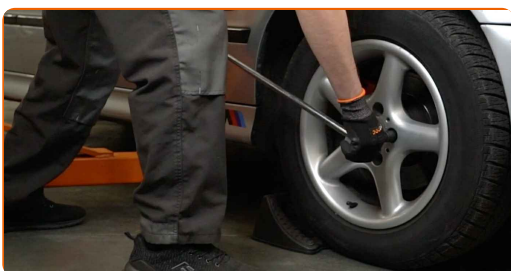
- The replacement procedure is identical for the left and right lower control arms.
- All work should be done with the engine stopped.

## REPLACEMENT: FRONT LOWER ARM – BMW 5 TOURING (E39). USE THE FOLLOWING PROCEDURE:

**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.

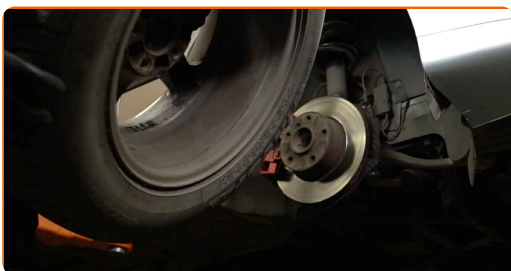
**4** Unscrew the wheel bolts.



Replacement: front lower arm – BMW 5 Touring (E39). Tip from AUTODOC:

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

**5** Remove the wheel.



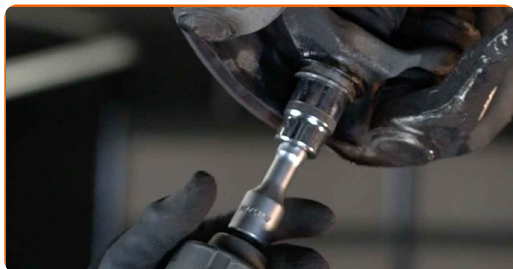
**6** Remove the control arm cover.



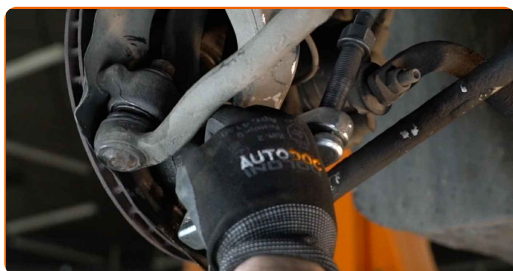
**7** Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



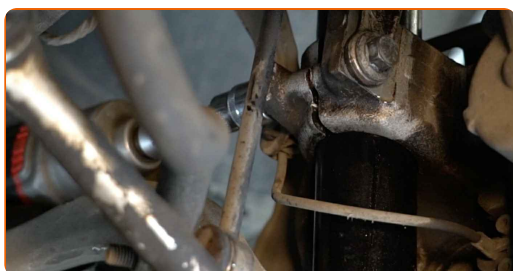
**8** Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #22. Use a ratchet wrench.



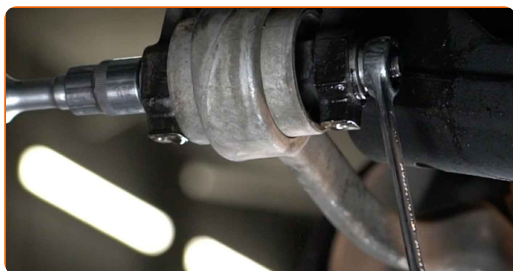
**9** Disconnect the ball joint from the steering knuckle. Use a ball joint puller.



**10** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #16. Use a ratchet wrench.



**11** Unscrew the front arm fastener. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



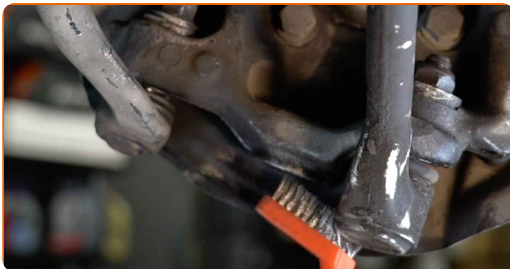
**12** Remove the front fastener of the control arm.



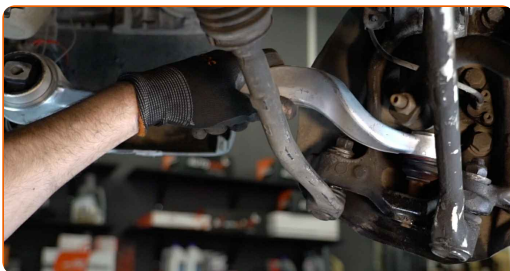
**13** Remove the arm.



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



**15** Install a new arm.

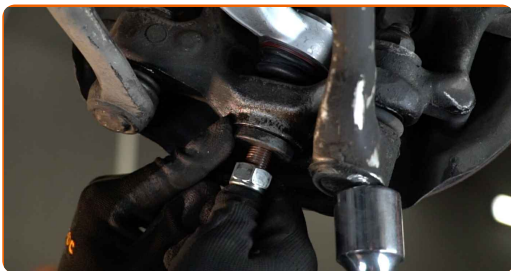


**AUTODOC recommends:**

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



**16** Connect the ball joint to the steering knuckle.



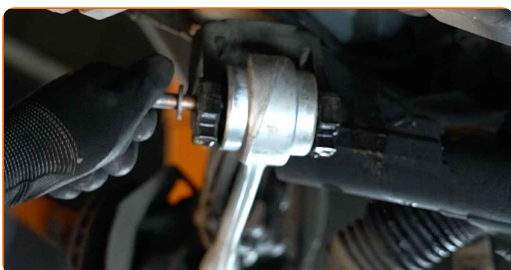
**17** Screw the fasteners of the ball joint. Use a drive socket #22. Use a ratchet wrench.



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



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

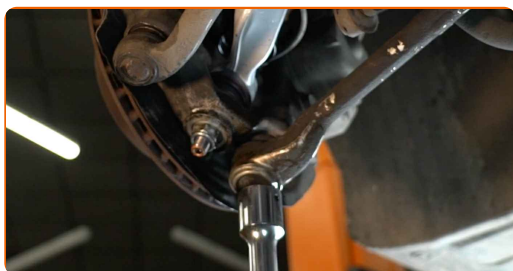




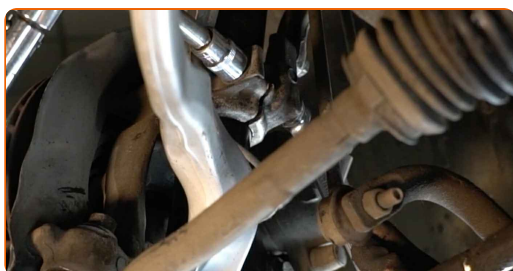
**20** Screw the front arm fastener. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



**21** Support the arm. Use a hydraulic transmission jack.



**22** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #16. Use a torque wrench. Tighten it to 81 Nm torque.



**23** Tighten the front fastener connecting the control arm to the subframe. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 110 Nm torque.



**24** Tighten the fasteners of the ball joint. Use a drive socket #22. Use a torque wrench. Tighten it to 80 nm torque.



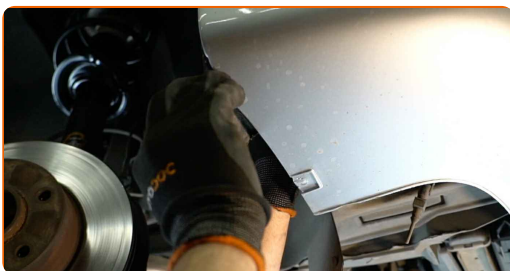
**25** Remove the support from under the arm.



**AUTODOC recommends:**

- Replacement: front lower arm – BMW 5 Touring (E39). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

**26** Install the control arm cover.



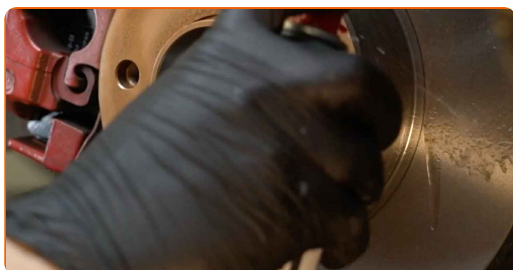
**27** Treat all joints of the arm. Treat the shock strut fasteners. Use copper grease.



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



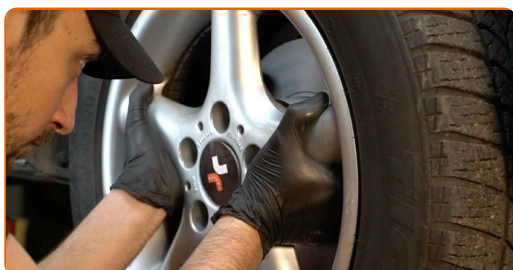
**29** Clean the brake disk surface. Use a brake cleaner.



Replacement: front lower arm – BMW 5 Touring (E39). AUTODOC recommends:

- After applying the spray, wait a few minutes.

**30** Install the wheel.

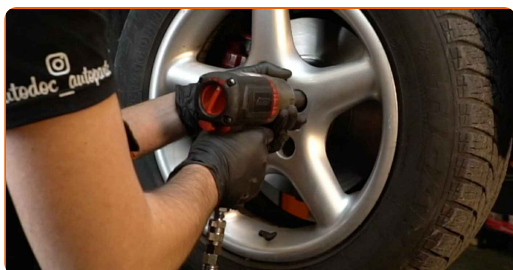


Replacement: front lower arm – BMW 5 Touring (E39). Professionals recommend:

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

31

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



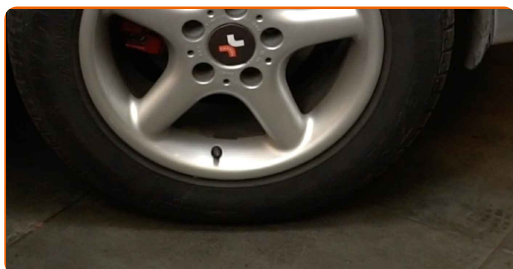
32

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.