

## SIMILAR VIDEO TUTORIAL



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

### **Important!**

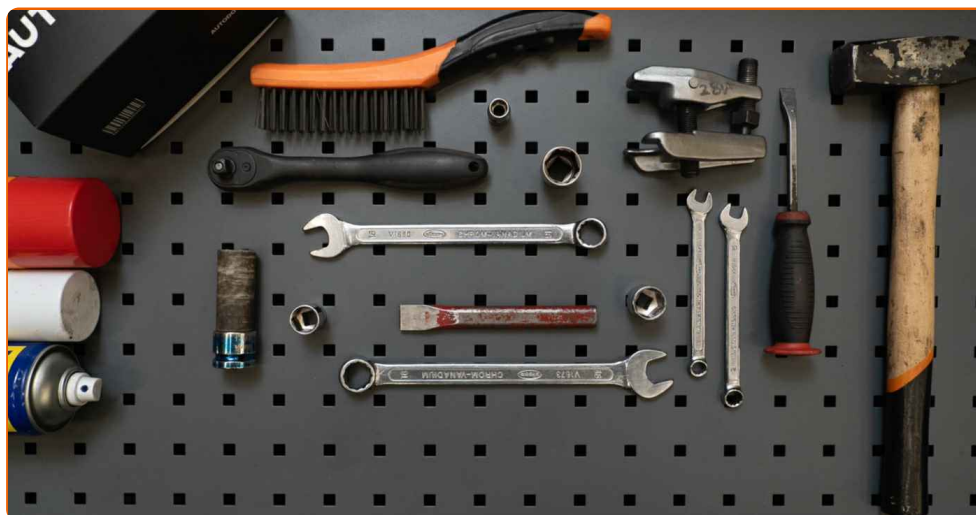
This replacement procedure can be used for:

BMW 5 Touring (E61) 525i 2.5, BMW 5 Touring (E61) 545i 4.4, BMW 5 Touring (E61) 530d 3.0, BMW 5 Touring (E61) 525d 2.5, BMW 5 Touring (E61) 535d 3.0, BMW 5 Touring (E61) 530i 3.0, BMW 5 Touring (E61) 523i 2.5, BMW 5 Touring (E61) 550i 4.8, BMW 5 Touring (E61) 530xd 3.0, BMW 5 Touring (E61) 525xi 2.5, BMW 5 Touring (E61) 530xi 3.0, BMW 5 Touring (E61) 520d 2.0, BMW 5 Touring (E61) 525d 3.0, BMW 5 Touring (E61) 525i 3.0, BMW 5 Touring (E61) 525xi 3.0, (+ 10)

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: FRONT LOWER ARM – BMW 5 TOURING (E61). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #9
- Combination spanner #10
- Combination spanner #16
- Combination spanner #18
- Drive socket # 10
- Drive socket # 16
- Drive socket # 18
- Drive socket # 21
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat chisel
- Hammer
- Ball joint puller
- Hydraulic transmission jack
- Wheel chock

**Buy tools**

### Replacement: front lower arm – BMW 5 Touring (E61). AUTODOC recommends:

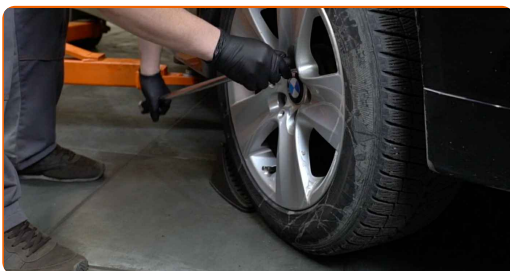
- The replacement procedure is identical for the left and right lower control arms.
- All work should be done with the engine stopped.

## REPLACEMENT: FRONT LOWER ARM – BMW 5 TOURING (E61). 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.

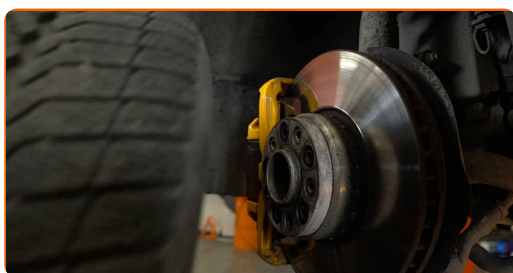


Replacement: front lower arm – BMW 5 Touring (E61). Tip:

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

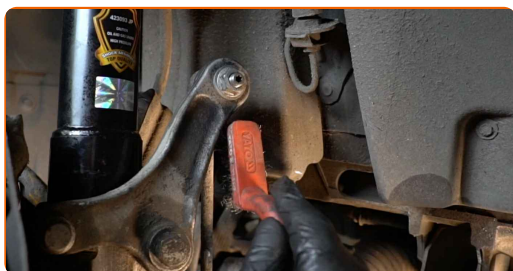
5

Remove the wheel.



6

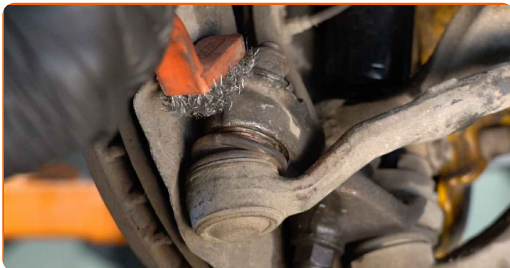
Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



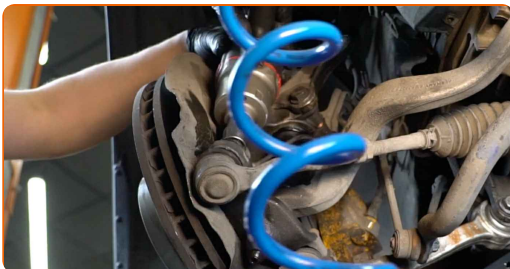
- 7 Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #16. Use a ratchet wrench.



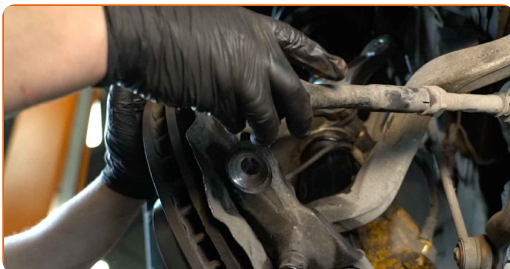
- 8 Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



- 9 Unscrew the end fastening nut to the steering knuckle. Use a drive socket #21. Use a ratchet wrench.



- 10 Disconnect the tie rod end from the steering knuckle.



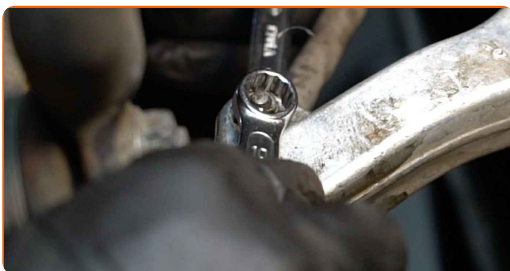
11

Clean the fasteners of the headlight levelling sensor. Use a wire brush. Use WD-40 spray.



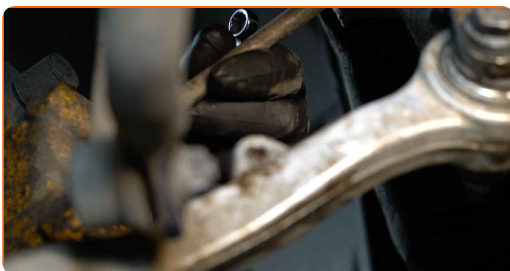
12

Unscrew the fasteners of the headlight levelling sensor. Use a combination spanner #9. Use a combination spanner #10.



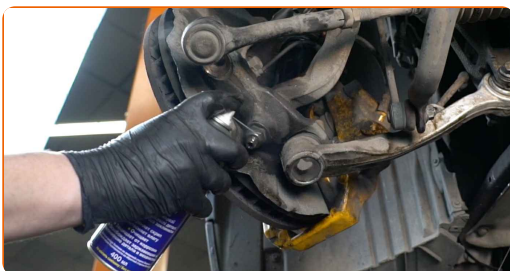
13

Disconnect the headlight levelling sensor.



14

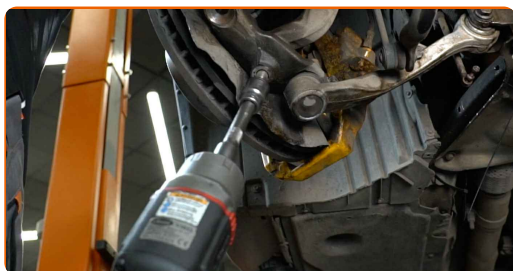
Clean all joints of the arm. Use a wire brush. Use WD-40 spray.





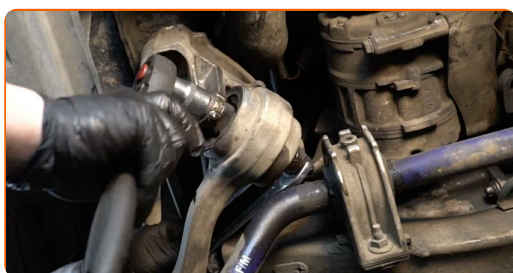
15

Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #21. Use a ratchet wrench.



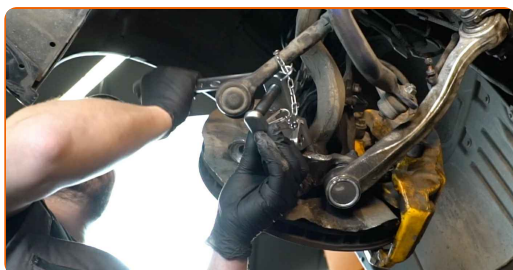
16

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



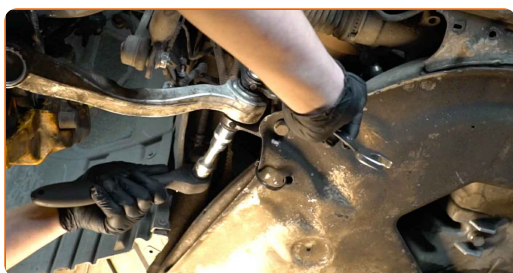
17

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

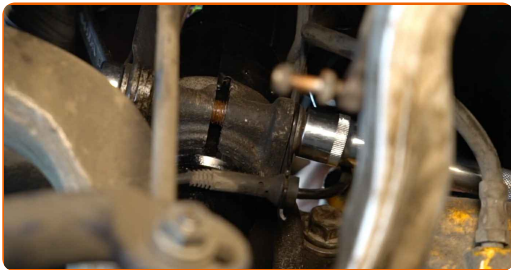


18

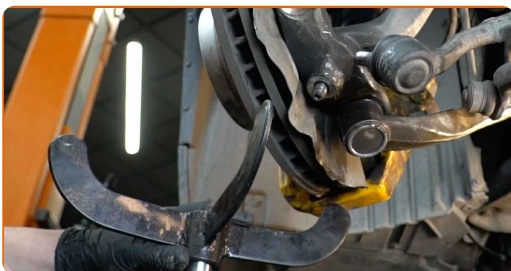
Unscrew the rear fastener connecting the control arm to the subframe. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



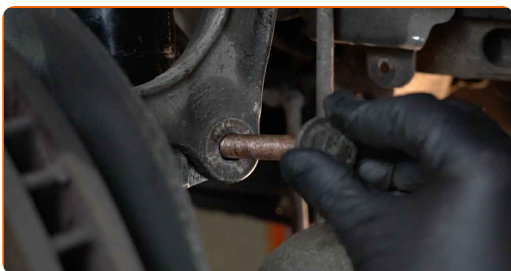
- 19** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



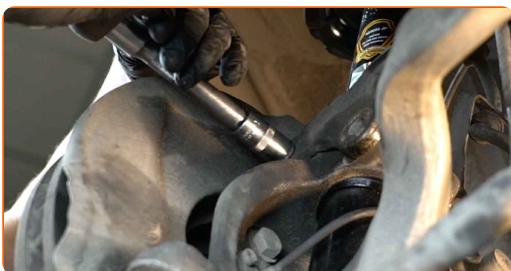
- 20** Prop up the steering knuckle. Use a hydraulic transmission jack.



- 21** Remove the fastening bolt.



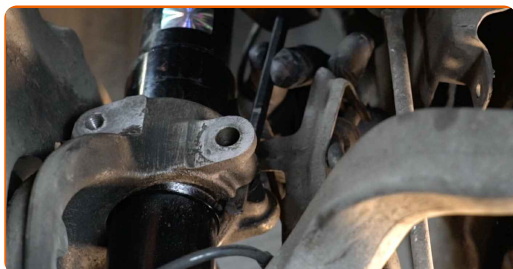
- 22** Unscrew the fastener of the stabiliser link bracket. Use a drive socket #16. Use a ratchet wrench.





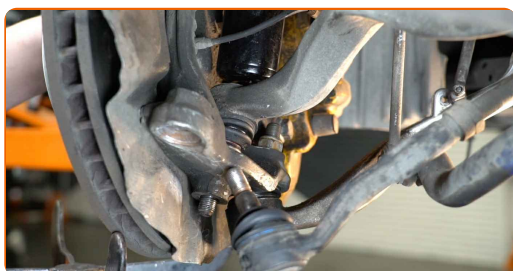
23

Release the lower fastener connecting the shock strut to the steering knuckle. Use a flat metal-working chisel. Use a hammer.



24

Lower the hydraulic transmission jack by 10-15 cm.

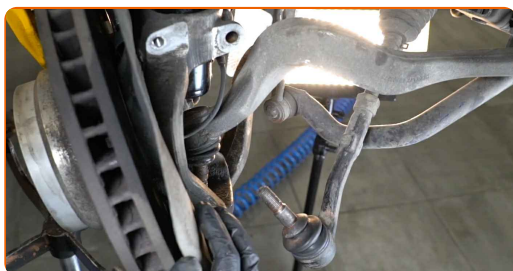


### AUTODOC recommends:

- Replacement: front lower arm – BMW 5 Touring (E61). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

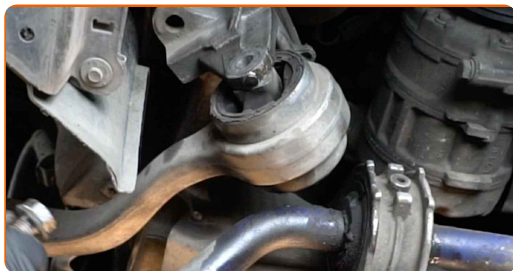
25

Disconnect the lower arm from the steering knuckle.



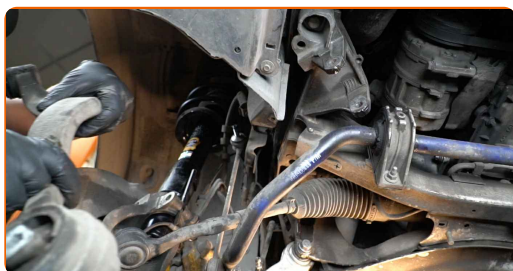
26

Remove the fastening bolt.



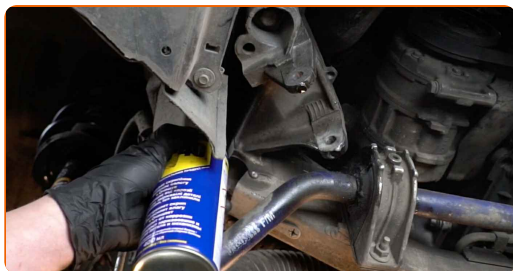
27

Remove the arm.



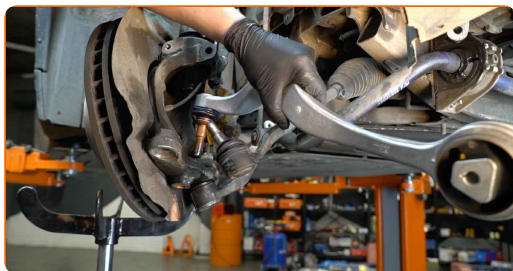
28

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



29

Install a new arm.



### AUTODOC recommends:

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