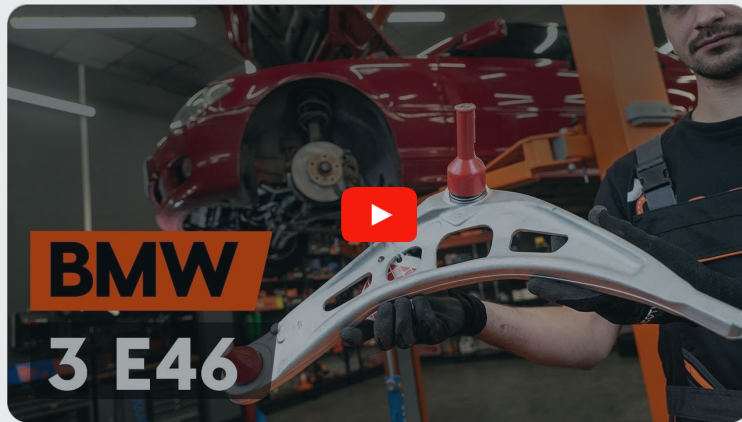


## VIDEO TUTORIAL



### Important!

This replacement procedure can be used for:

BMW 3 Saloon (E46) 318i 1.9, BMW 3 Saloon (E46) 328i 2.8, BMW 3 Saloon (E46) 320d 2.0, BMW 3 Saloon (E46) 323i 2.5, BMW 3 Saloon (E46) 320i 2.0, BMW 3 Coupe (E46) 323Ci 2.5, BMW 3 Coupe (E46) 328Ci 2.8, BMW 3 Saloon (E46) 316i 1.9, BMW 3 Touring (E46) 320i 2.0, BMW 3 Coupe (E46) 320Ci 2.0, BMW 3 Coupe (E46) 318Ci 1.9, BMW 3 Touring (E46) 318i 1.9, BMW 3 Touring (E46) 328i 2.8, BMW 3 Touring (E46) 320d 2.0, BMW 3 Saloon (E46) 330d 2.9, (+ 43)

The steps may slightly vary depending on the car design.

## REPLACEMENT: FRONT LOWER ARM – BMW E46 CONVERTIBLE. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Combination spanner #18
- Combination spanner #19
- Combination spanner #21
- Drive socket # 13
- Drive socket # 18
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Ball joint puller
- 3-Arm Gear Puller
- Phillips screwdriver
- Crow bar
- Rubber mallet
- Vice
- Hydraulic transmission jack
- Wheel chock

**BUY TOOLS**

### Replacement: front lower arm – BMW E46 convertible. Professionals recommend:

- The replacement procedure is identical for the left and right lower control arms.
- Replacement of the independent suspension lower arm in some cars requires a part of the outlet piping of the additional heater to be removed.
- All work should be done with the engine stopped.

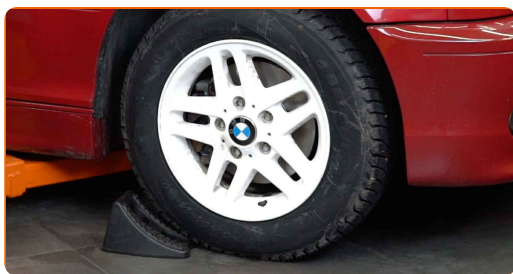
## REPLACEMENT: FRONT LOWER ARM – BMW E46 CONVERTIBLE. RECOMMENDED SEQUENCE OF STEPS:

**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.



### AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. BMW E46 convertible

5

Remove the wheel.



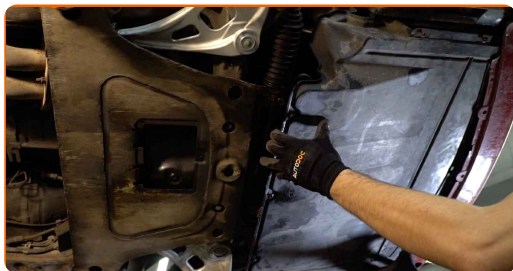
6

Unscrew the fasteners of the lower sound insulation. Use a Phillips screwdriver.



7

Remove the lower sound insulation.

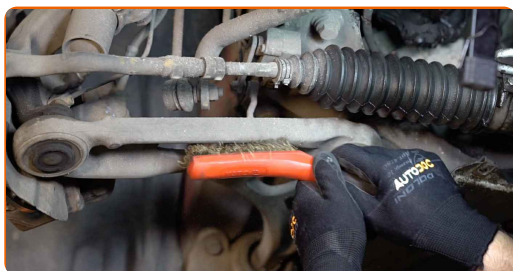


Please note!

- Some cars are not equipped with the lower sound insulation.

8

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



Replacement: front lower arm – BMW E46 convertible. Tip:

- After applying the spray, wait a few minutes.
- Wear protective goggles.

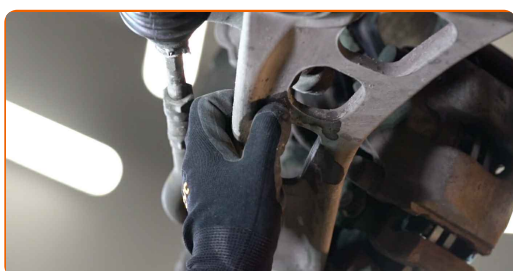
9

Loosen the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #19.



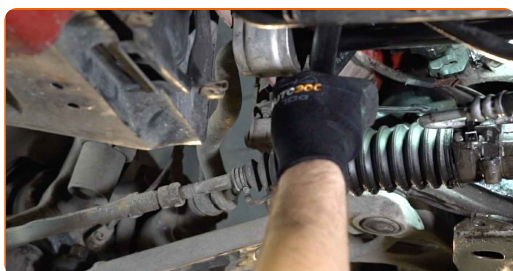
10

Detach the fastener connecting the suspension level sensor to the suspension control arm. Use a drive socket #13. Use a ratchet wrench.



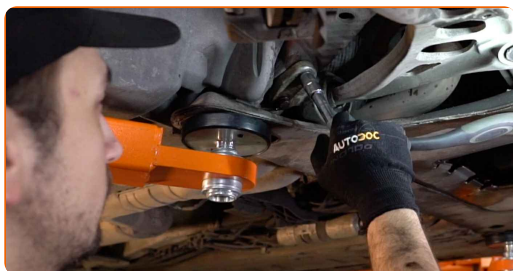
11

Unscrew the arm fastening from the subframe. Use a combination spanner #21.



12

Unscrew the rear arm fastening. Use a drive socket #18. Use a combination spanner #18. Use a ratchet wrench.





13

Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #19.



14

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



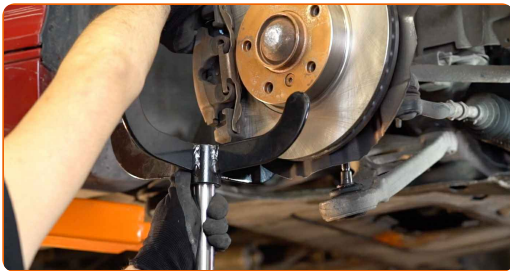
15

Disconnect the lower arm from the steering knuckle.



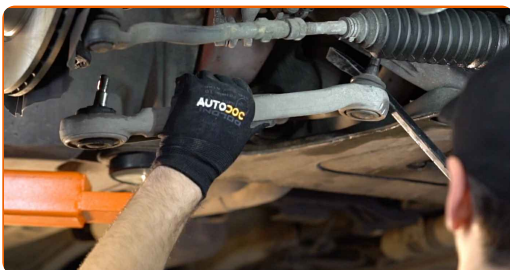
16

Prop up the steering knuckle. Use a hydraulic transmission jack.

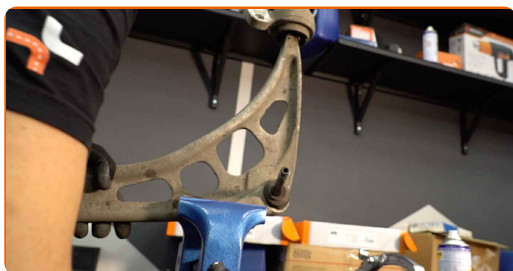


17

Remove the arm. Use a crowbar.



18 Grip the suspension control arm in a vice.



19 Treat the control arm bush. Use WD-40 spray.



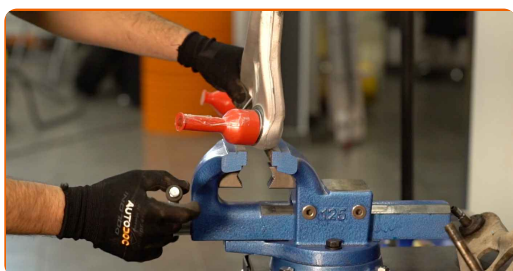
20 Remove the control arm bush. Use 3-Arm Gear Puller.



21 Loosen the vice and remove the control arm.



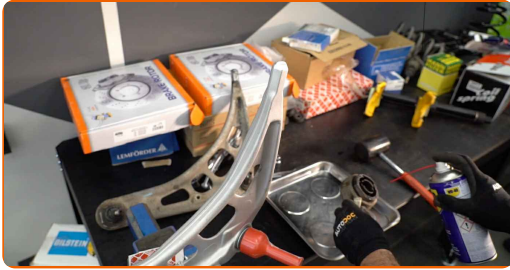
22 Grip the new control arm in a vice.





23

Treat the mounting seat of the control arm bush. Use WD-40 spray.



24

Install the control arm bush to its mounting seat. Use a rubber mallet.



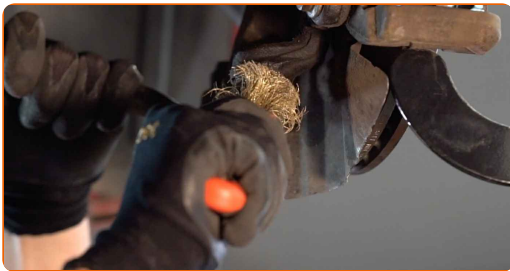
25

Loosen the vice and remove the control arm.



26

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



27

Install a new arm.

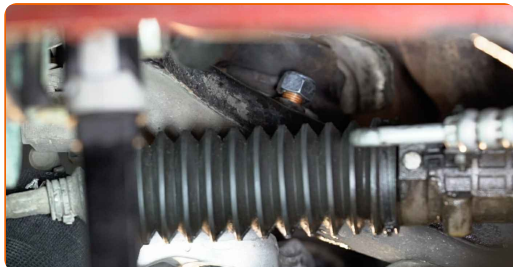


Replacement: front lower arm – BMW E46 convertible. Tip from AUTODOC experts:

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

28

Install the control arm fasteners.



29

Screw the fastener connecting the control arm to the subframe. Use a combination spanner #21.

