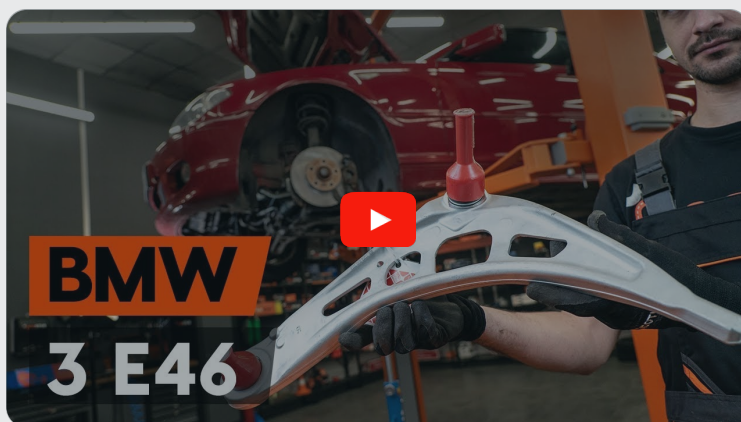




How to change front
lower arm on **BMW E46**
convertible –
replacement guide

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:

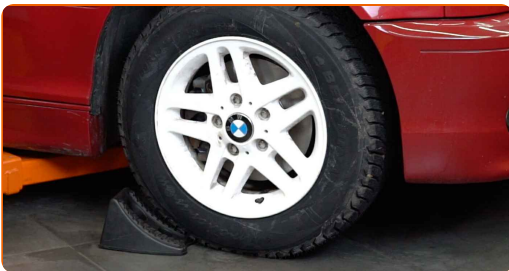
1

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.

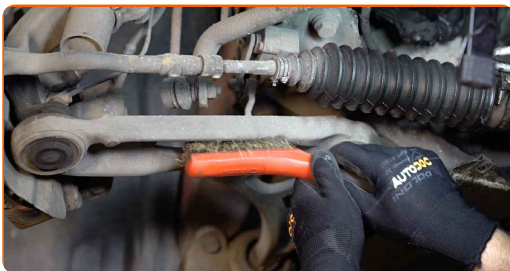


Please note!

- 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.

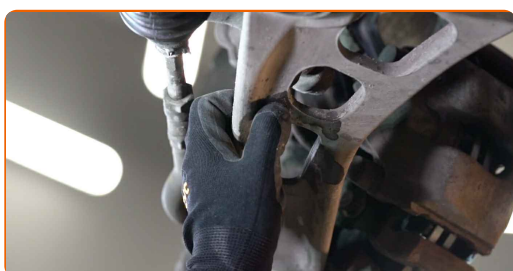
9

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



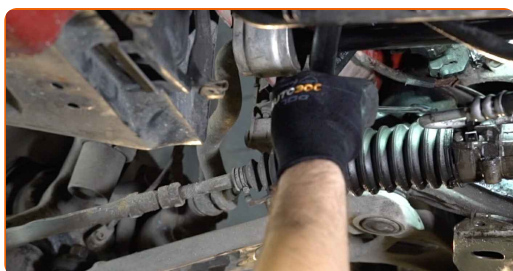
10

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



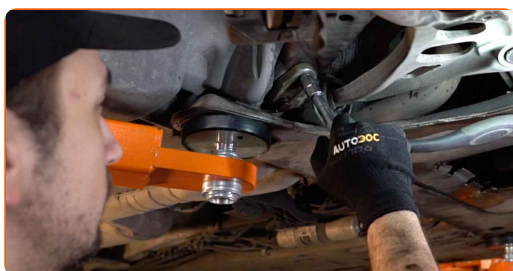
11

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

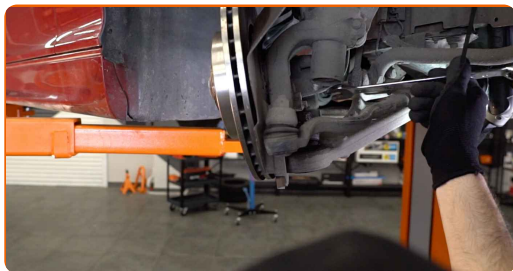


12

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



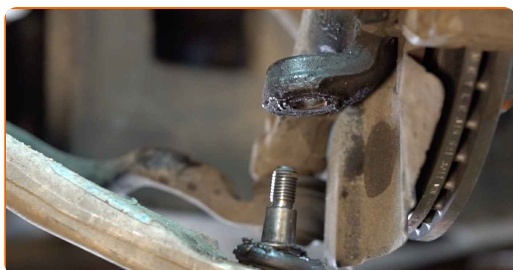
13 Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #19.



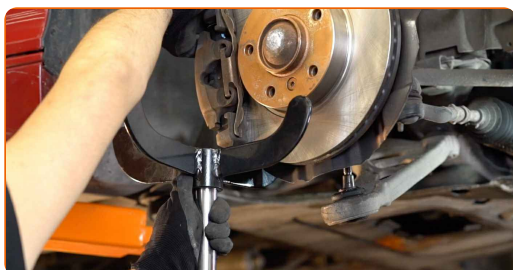
14 Disconnect the ball joint from the steering knuckle. Use a ball joint puller.



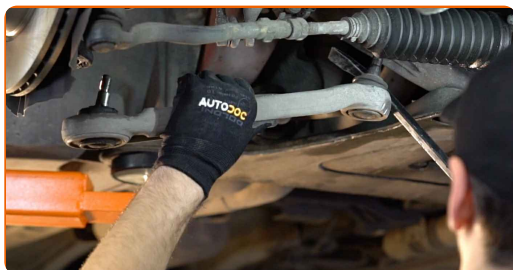
15 Disconnect the lower arm from the steering knuckle.



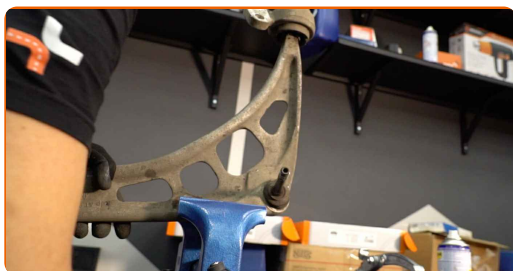
16 Prop up the steering knuckle. Use a hydraulic transmission jack.



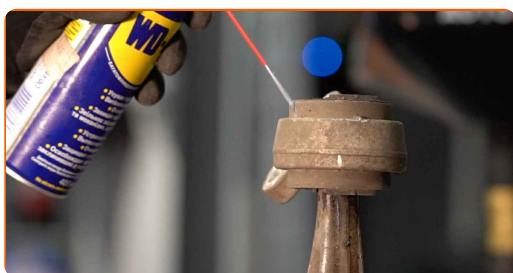
17 Remove the arm. Use a crowbar.



18 Grip the suspension control arm in a vice.



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



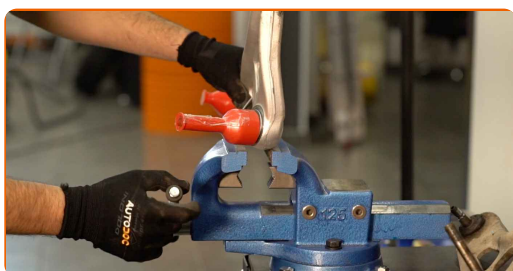
20 Remove the control arm bush. Use 3-Arm Gear Puller.



21 Loosen the vice and remove the control arm.

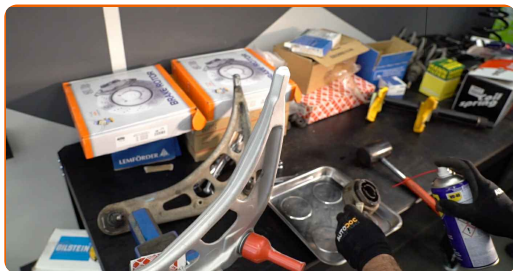


22 Grip the new control arm in a vice.

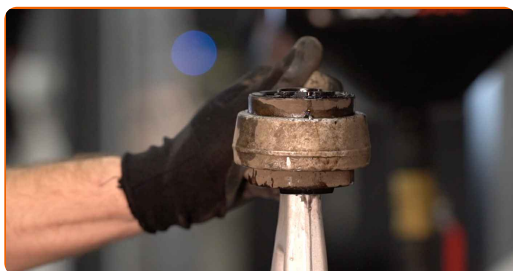


23

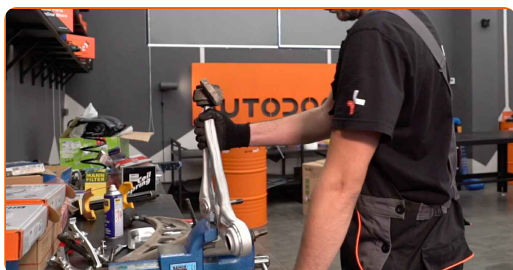
Treat the mounting seat of the control arm bush. Use WD-40 spray.

**24**

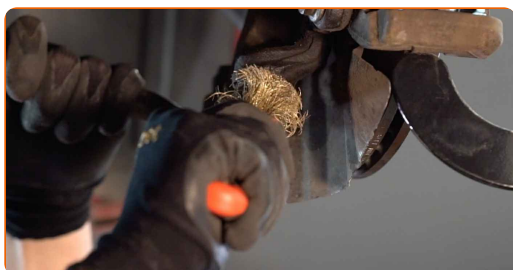
Install the control arm bush to its mounting seat. Use a rubber mallet.

**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.

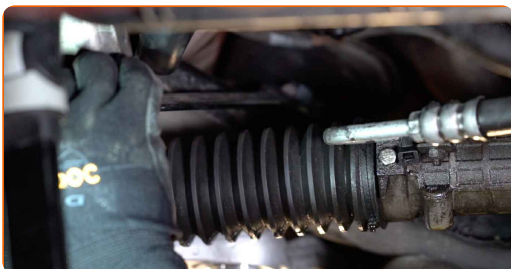
28

Install the control arm fasteners.



29

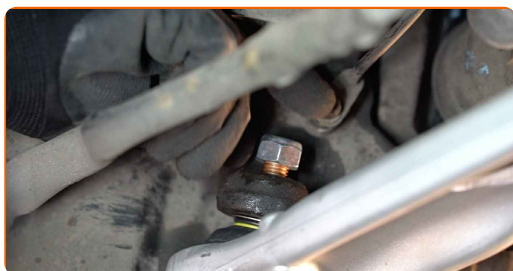
Screw the fastener connecting the control arm to the subframe. Use a combination spanner #21.



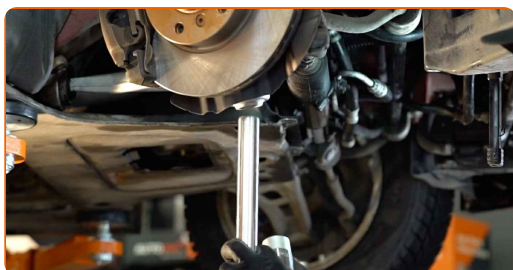
30 Screw the rear arm fastener. Use a drive socket #18. Use a combination spanner #18. Use a ratchet wrench.



31 Insert the ball joint into the steering knuckle and fix it with a new nut.



32 Remove the support from under the steering knuckle.



AUTODOC recommends:

- Replacement: front lower arm – BMW E46 convertible. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

33 Support the arm. Use a hydraulic transmission jack.



34 Tighten the arm fastening to the subframe. Use a combination spanner #21. Use a torque wrench. Tighten it to 90 nm torque.



35 Lower the hydraulic transmission jack by 10-15 cm.



Replacement: front lower arm – BMW E46 convertible. AUTODOC recommends:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

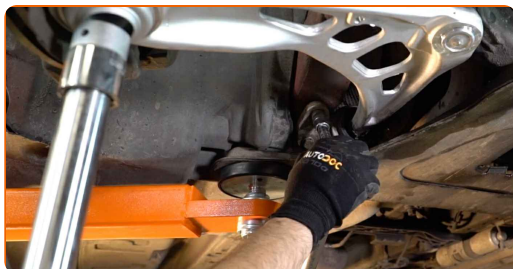
36 Support the arm. Use a hydraulic transmission jack.



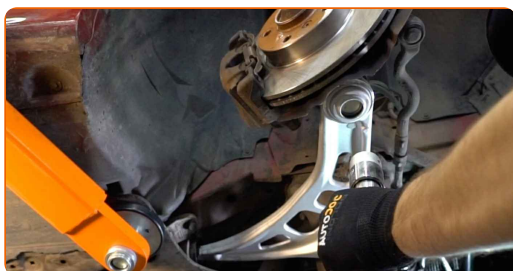
37 Tighten the ball joint fastening nut. Use a combination spanner #19. Use a torque wrench. Tighten it to 65 nm torque.



38 Tighten the rear fastener of the control arm. Use a drive socket #18. Use a combination spanner #18. Use a torque wrench. Tighten it to 59 nm torque.



39 Remove the support from under the arm.

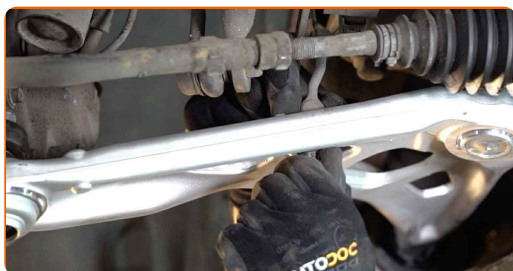


AUTODOC recommends:

- BMW E46 convertible – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

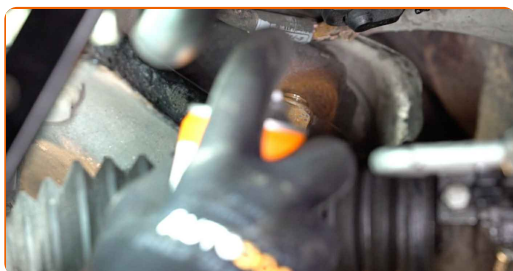
40

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



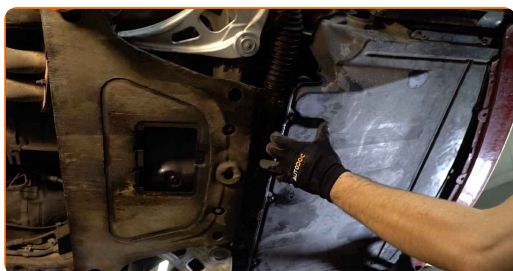
41

Treat all joints of the arm. Use copper grease.



42

Install the lower sound insulation.



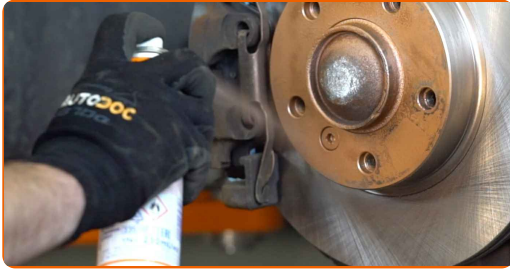
43

Screw in the fasteners of the lower sound insulation. Use a Phillips screwdriver.



44

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



45

Install the wheel.



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

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

46

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



- 47** Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 120 nm torque.



- 48** Remove the jacks and chocks.



WELL DONE! 

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