



How to change front
lower arm on **BMW X3**
E83 – replacement guide

VIDEO TUTORIAL



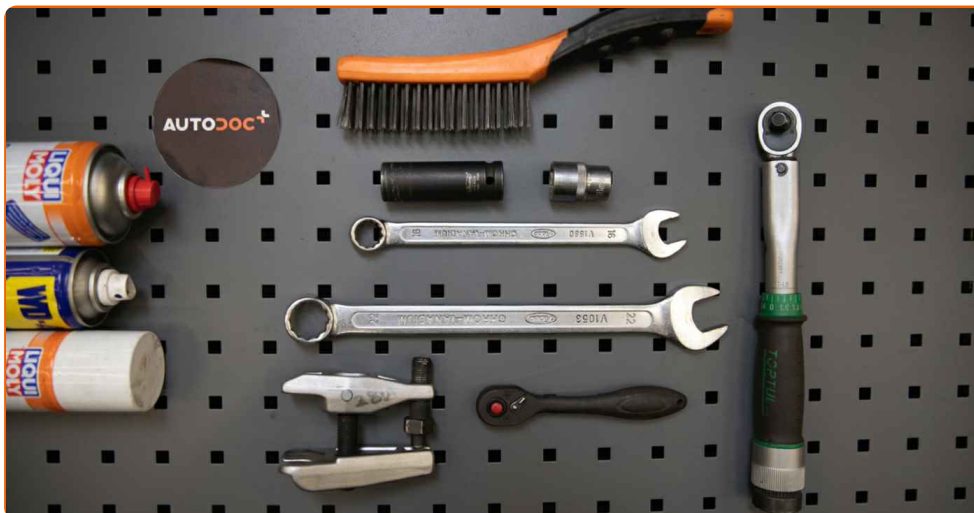
i Important!

This replacement procedure can be used for:

BMW X3 (E83) xDrive 20 d, BMW X3 (E83) xDrive 30 d, BMW X3 (E83) 3.0 i xDrive, BMW X3 (E83) 3.0 d, BMW X3 (E83) 2.0 d, BMW X3 (E83) 2.0 i, BMW X3 (E83) 3.0 si, BMW X3 (E83) 2.5 si, BMW X3 (E83) 3.0 sd, BMW X3 (E83) xDrive 20 i, BMW X3 (E83) xDrive 25 i, BMW X3 (E83) xDrive 30 i, BMW X3 (E83) xDrive 18 d, BMW X3 (E83) xDrive 35 d, BMW X3 (E83) 2.5 si xDrive

The steps may slightly vary depending on the car design.

REPLACEMENT: FRONT LOWER ARM – BMW X3 E83. TOOLS YOU MIGHT NEED:



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

BUY TOOLS

Replacement: front lower arm – BMW X3 E83. AUTODOC experts recommend:

- 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 X3 E83. 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.

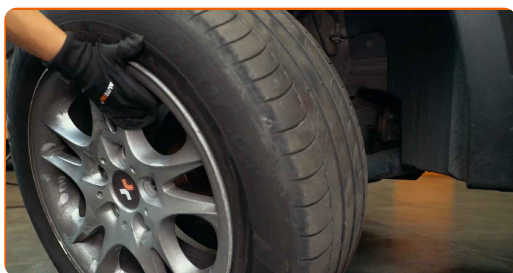


AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
BMW X3 E83

5

Remove the wheel.



6

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

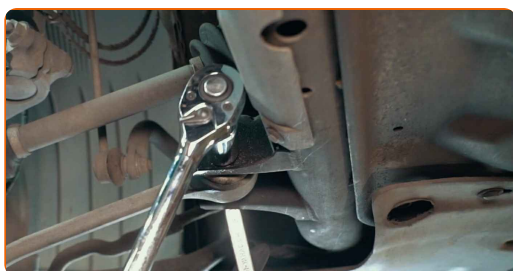


AUTODOC recommends:

- Replacement: front lower arm – BMW X3 E83. After applying the spray, wait a few minutes.

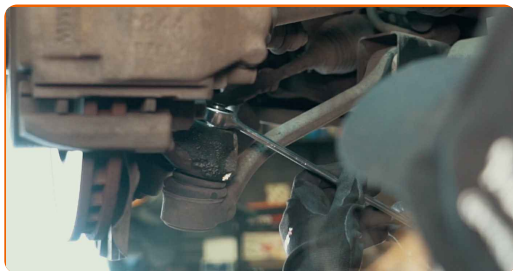
7

Unscrew the fastener connecting the control arm to the subframe. Use a combination spanner #16. Use a drive socket #18. Use a ratchet wrench.



8

Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #22.



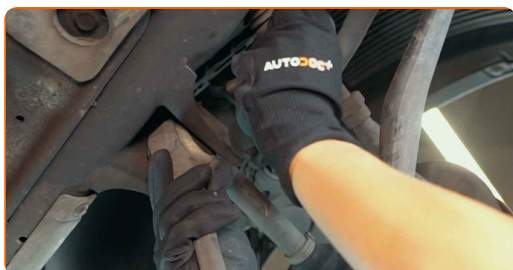
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Disconnect the ball joint from the steering knuckle. Use a ball joint puller.



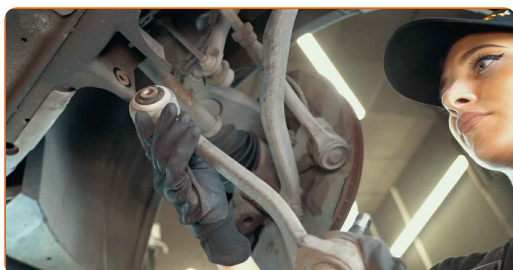
10

Remove the fastening bolt.



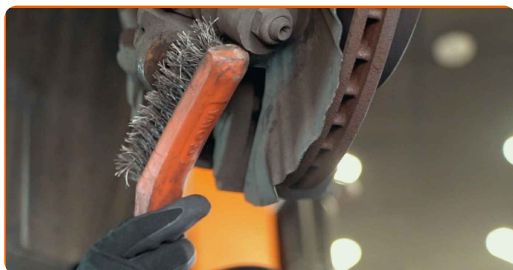
11

Remove the arm.



12

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



13

Install a new arm.

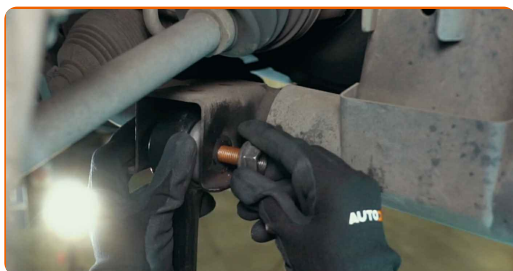


Replacement: front lower arm – BMW X3 E83. Professionals recommend:

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

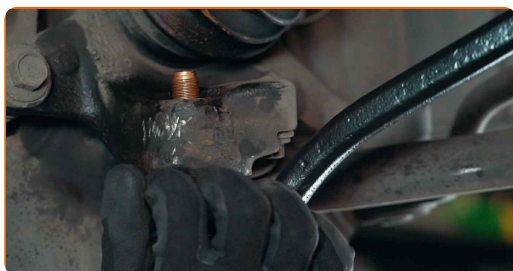
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Install the fastening bolt.



15

Connect the ball joint to the steering knuckle.



16

Screw the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #22.



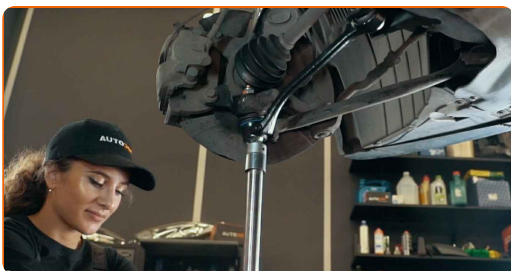
17

Screw the fastener connecting the control arm to the subframe. Use a combination spanner #16. Use a drive socket #18. Use a ratchet wrench.



18

Support the arm. Use a hydraulic transmission jack.



19

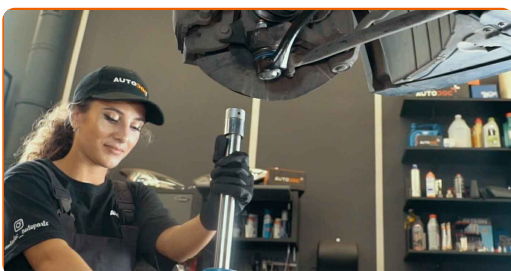
Tighten the fasteners connecting the control arm and the subframe. Use a combination spanner #16. Use a drive socket #18. Use a torque wrench. Tighten it to 110 Nm torque.



- 20** Tighten the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #22. Use a torque wrench. Tighten it to 60 Nm torque.



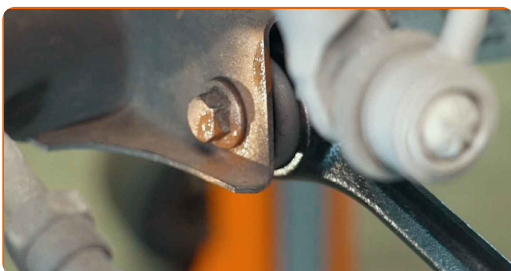
- 21** Remove the support from under the arm.



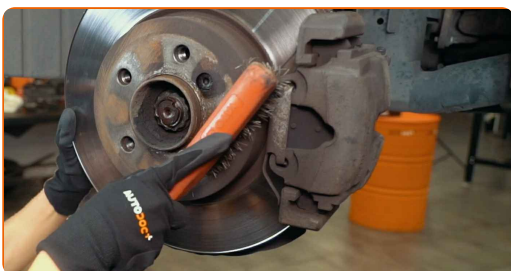
AUTODOC recommends:

- BMW X3 E83 – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

- 22** Treat all joints of the arm. Use copper grease.



- 23** Clean the wheel rim mounting seat. Use a wire brush.



24

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



25

Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: front lower arm – BMW X3 E83. After applying the spray, wait a few minutes.

26

Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW X3 E83

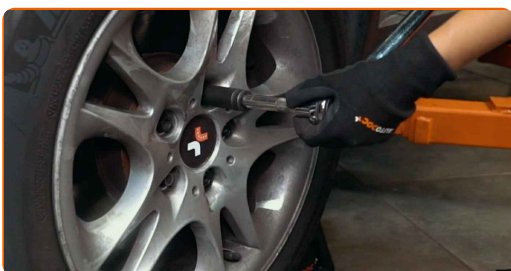
27

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



28

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 140 Nm torque.



29

Remove the jacks and chocks.



WELL DONE! 

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