



How to change front  
lower arm on **Mazda 3**  
**BK** – replacement guide

## VIDEO TUTORIAL

** Important!**

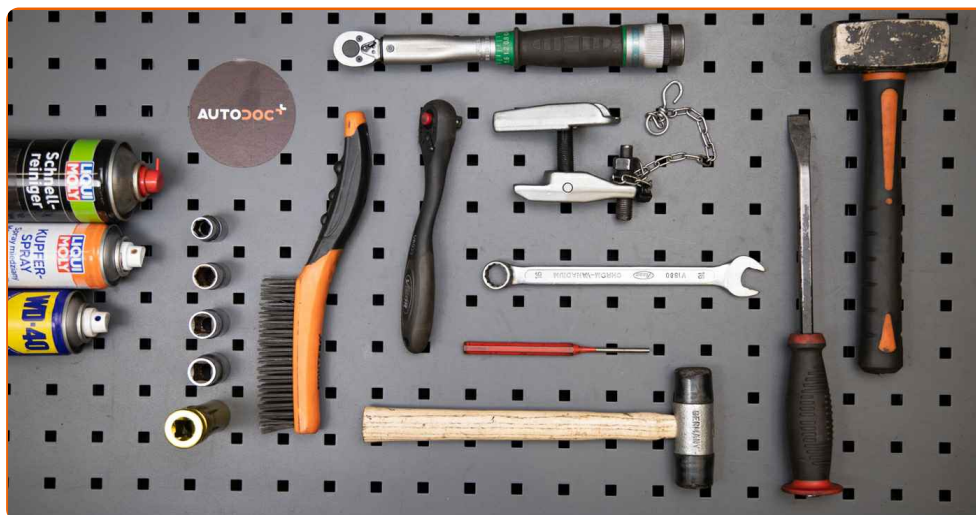
This replacement procedure can be used for:

MAZDA 5 (CW) 1.6 CD, MAZDA 5 (CW) 2.0, MAZDA 3 Hatchback (BK) 1.6, MAZDA 3 Hatchback (BK) 2.0, MAZDA 3 Saloon (BK) 2.0, MAZDA 3 Saloon (BK) 1.6 DI Turbo, MAZDA 3 Hatchback (BK) 1.6 DI Turbo, MAZDA 3 Hatchback (BK) 1.4, MAZDA 5 (CR19) 1.8, MAZDA 5 (CR19) 2.0, MAZDA 5 (CR19) 2.0 CD, MAZDA 3 Hatchback (BK) 2.3 MZR, MAZDA 3 Hatchback (BK) 2.3 DiSi Turbo MPS, MAZDA 3 Saloon (BK) 2.3, MAZDA 3 Hatchback (BK) 2.0 MZR-CD, (+ 3)

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The steps may slightly vary depending on the car design.

**REPLACEMENT: FRONT LOWER ARM – MAZDA 3 BK.  
TOOLS YOU MIGHT NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 12
- Drive socket # 14
- Drive socket # 17
- Drive socket # 18
- Combination spanner #16
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Ball joint puller
- Rubber mallet
- Crow bar
- Hammer
- Pin punch
- Hydraulic transmission jack
- Wheel chock

**BUY TOOLS**

Replacement: front lower arm – Mazda 3 BK. AUTODOC recommends:

- The replacement procedure is identical for the left and right lower control arms.
- Please note: all work on the car – Mazda 3 BK – should be done with the engine switched off.

**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

**1** Secure the wheels with chocks.



**2** Loosen the wheel mounting bolts. Use wheel impact socket #19.

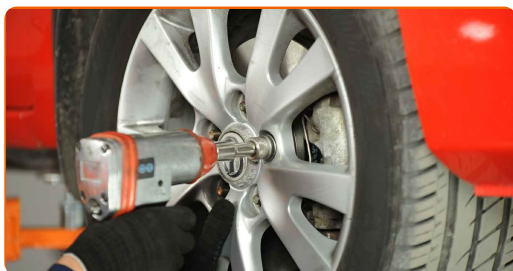


**3** Raise the front of the car and secure on supports.



4

Unscrew the wheel bolts.



Replacement: front lower arm – Mazda 3 BK. Tip:

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

5

Remove the wheel.

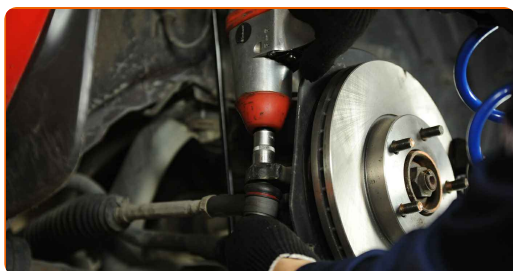


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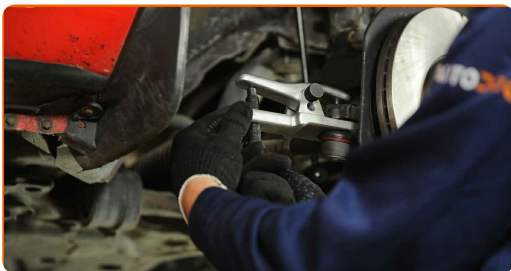
Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.

7

Unscrew the end fastening nut to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



**8** Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.

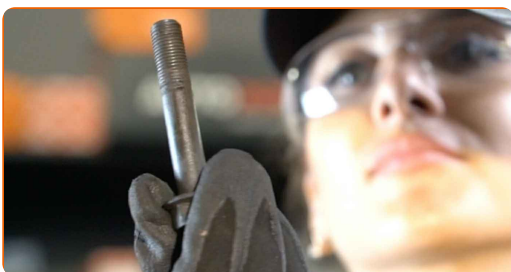


**9** Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.

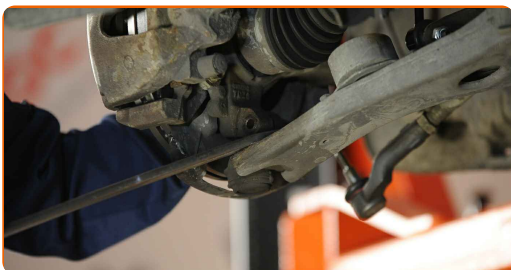
**10** Unscrew the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #16. Use a drive socket #14. Use a ratchet wrench.



**11** Remove the fastening bolt.



**12** Disconnect the lower arm from the steering knuckle. Use a rubber mallet. Use a crowbar.



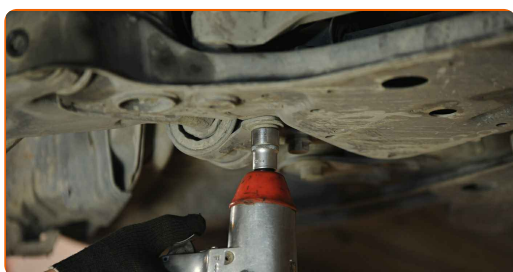
**13** Clean the fasteners connecting the control arm to the subframe. Use a wire brush. Use WD-40 spray.

**14** Unscrew the front arm fastener. Use a drive socket #18. Use a ratchet wrench.



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

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



**17** Remove the rear fastener of the control arm.

**18** Remove the arm.

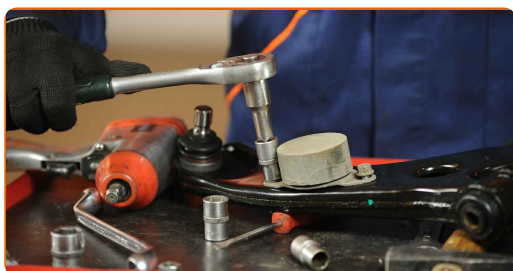


**19** Unscrew the fasteners and remove the bump stop from the front independent suspension lower control arm. Use a drive socket #12. Use a ratchet wrench.

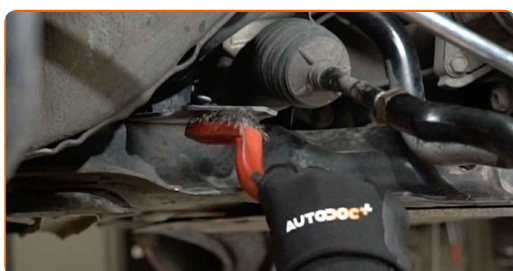




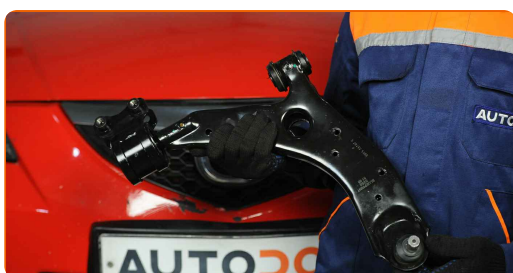
- 20** Install and fix the bump stop onto the new control arm. Use a drive socket #12. Use a torque wrench. Tighten it to 19 nm torque.



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



- 22** Install a new arm.



**AUTODOC recommends:**

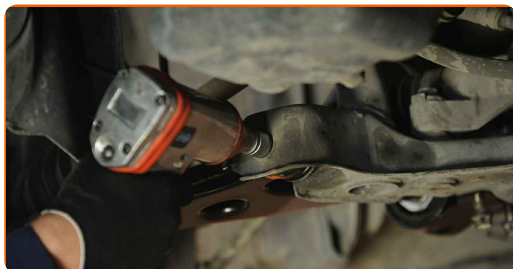
- During the installation process, use only new bolts and nuts.
- Do not damage the ball joint cover.

- 23** Install the front fastener of the arm.

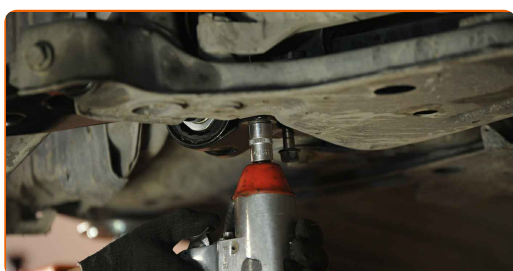
- 24** Install the rear fastener of the control arm.



**25** Screw the front arm fastener. Use a drive socket #18. Use a ratchet wrench.



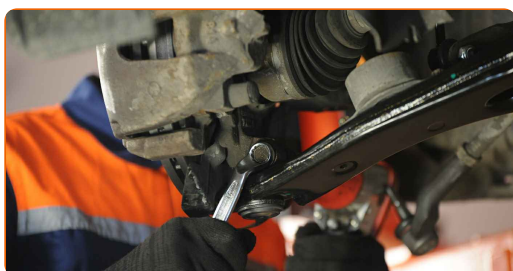
**26** Tighten the rear fastener of the control arm. Use a drive socket #18. Use a torque wrench. Tighten it to 86 nm torque.



**27** Connect the ball joint to the steering knuckle. Use a rubber mallet.

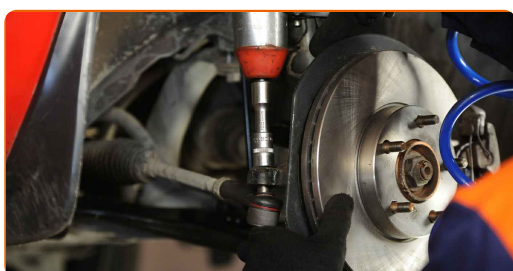
**28** Install the fastening bolt. Use a pin punch. Use a hammer.

**29** Tighten the ball joint fastener. Use a combination spanner #16. Use a drive socket #14. Use a torque wrench. Tighten it to 55 Nm torque.

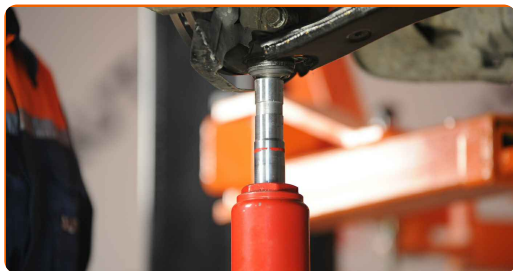


**30** Connect the tie rod end to the steering knuckle.

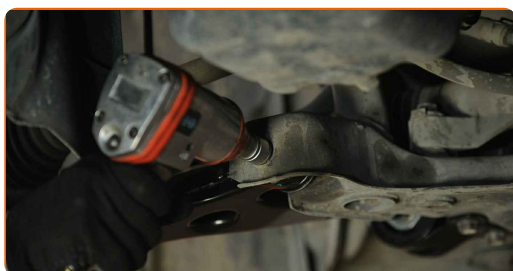
**31** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 40 nm torque.



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



**33** Tighten the front fastener connecting the control arm to the subframe. Use a drive socket #18. Use a torque wrench. Tighten it to 130 nm torque.



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



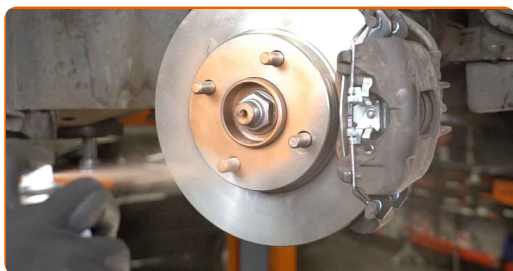
**AUTODOC recommends:**

- Replacement: front lower arm – Mazda 3 BK. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

**35** Treat all joints of the arm. Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.

36

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



37

Clean the brake disc surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: rear lower arm – Mazda 3 BK. After applying the spray, wait a few minutes.

38

Install the wheel.

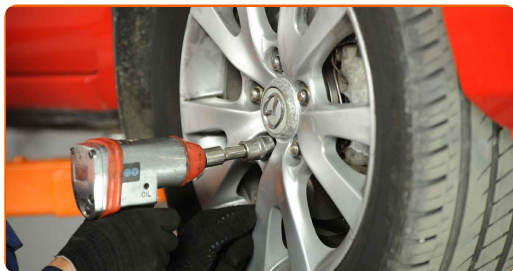


**Replacement: front lower arm – Mazda 3 BK. Tip:**

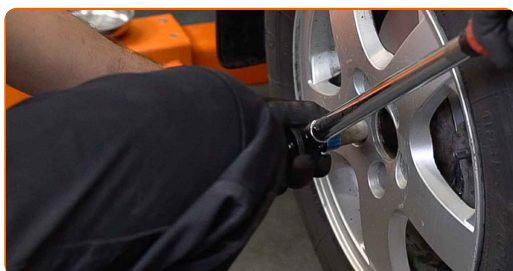
- To avoid injury, hold up the wheel when screwing in the fastening bolts.

**39**

Screw in the wheel bolts. Use wheel impact socket #19.

**40**

Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #19. Use a torque wrench. Tighten it to 118 nm torque.

**41**

Remove the jacks and chocks.



**WELL DONE!** 

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