



How to change rear  
shock absorbers on  
**Mazda 3 BK** –  
replacement guide

## VIDEO TUTORIAL



### Important!

This replacement procedure can be used for:

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 3 Hatchback (BK) 2.3 MPS Turbo, MAZDA 3 Hatchback (BK) 2.0 MZR-CD, MAZDA 3 Saloon (BK) 2.0 MZR-CD, MAZDA 3 Hatchback (BK) 1.6 MZ-CD

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The steps may slightly vary depending on the car design.

REPLACEMENT: SHOCK ABSORBERS – MAZDA 3 BK.  
TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #13
- Drive socket # 12
- Drive socket # 17
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Adjustable wrench
- Hydraulic transmission jack
- Wheel chock

**BUY TOOLS**

Replacement: shock absorbers – Mazda 3 BK. AUTODOC recommends:

- Both shock absorbers of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock absorbers of the rear suspension.
- All work should be done with the engine stopped.

**REPLACEMENT: SHOCK ABSORBERS – MAZDA 3 BK. USE THE FOLLOWING PROCEDURE:**

**1** Secure the wheels with chocks.



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



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



**4** Unscrew the wheel bolts.



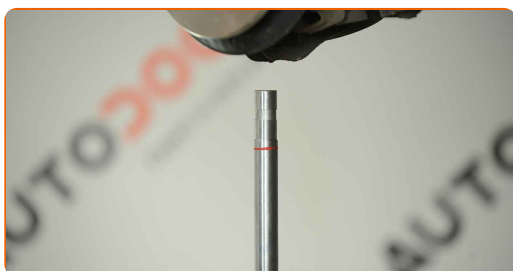
**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
Mazda 3 BK

**5** Remove the wheel.



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



**7** Clean the shock absorber fasteners. Use a wire brush. Use WD-40 spray.

8

Unscrew the lower fastener of the shock absorber. Use a drive socket #17. Use a ratchet wrench.



9

Remove the fastening bolt.

10

Remove the support from under the arm.



**AUTODOC recommends:**

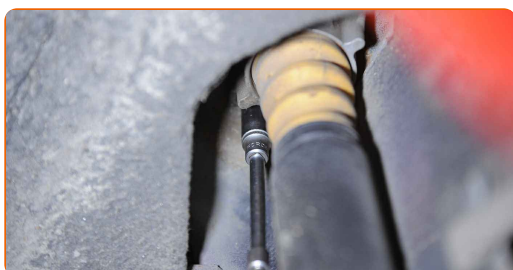
- Replacement: shock absorbers – Mazda 3 BK. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

11

Detach the lower part of the shock absorber.

12

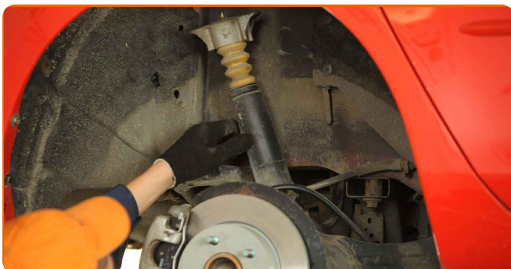
Unscrew the upper fastener of the shock absorber. Use a drive socket #12. Use a ratchet wrench.



Replacement: shock absorbers – Mazda 3 BK. AUTODOC recommends:

- To avoid injuries, hold the shock absorber when undoing the fastening bolts.

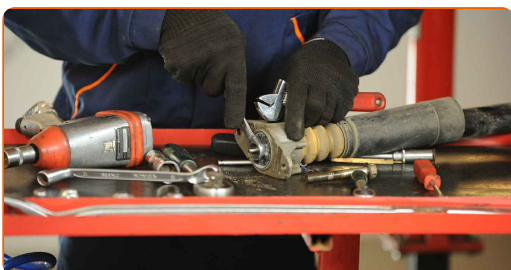
**13** Remove the shock absorber.



**14** Clean the fasteners of the shock absorber upper mount. Use a wire brush. Use WD-40 spray.



**15** Unscrew the shock absorber mount fasteners. Use a combination spanner #13. Use an adjustable wrench.



**16** Remove the shock absorber mount, dust boot, and bump stop.





Replacement: shock absorbers – Mazda 3 BK. AUTODOC experts recommend:

- Before installing a new shock absorber you should pump it manually 3-5 times.

17

Install the mount, dust boot, and bump stop on a new shock absorber.



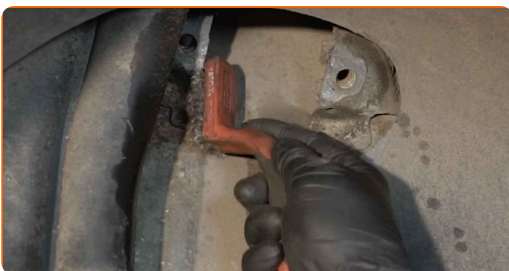
18

Tighten the shock absorber mount fasteners. Use a combination spanner #13. Use an adjustable wrench. Use a torque wrench. Tighten it to 25 nm torque.



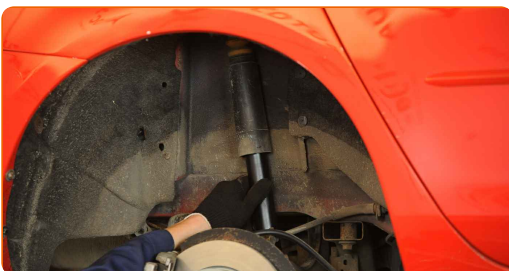
19

Clean the shock absorber mounting seats. Use a wire brush. Use WD-40 spray.



20

Place the shock absorber in the wheel arch and fasten it.



AUTODOC recommends:

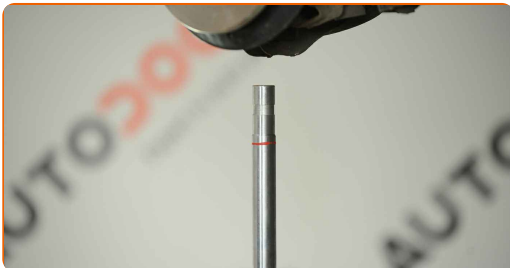


- 21 Tighten the top shock absorber fastening. Use a drive socket #12. Use a torque wrench. Tighten it to 25 Nm torque.



- 22 Attach the lower part of the shock absorber.

- 23 Support the arm. Use a hydraulic transmission jack.



- 24 Install the fastening bolt.

- 25 Tighten the lower fastener of the shock absorber. Use a drive socket #17. Use a torque wrench. Tighten it to 76 Nm torque.



- 26 Remove the support from under the arm.

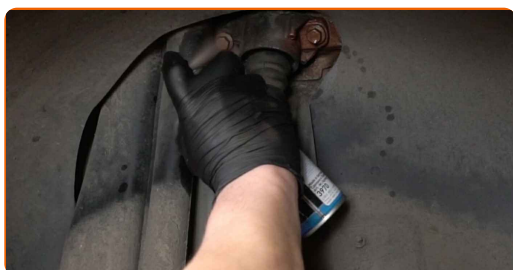


**AUTODOC recommends:**

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

**27**

Treat the shock absorber fasteners. Use copper grease.



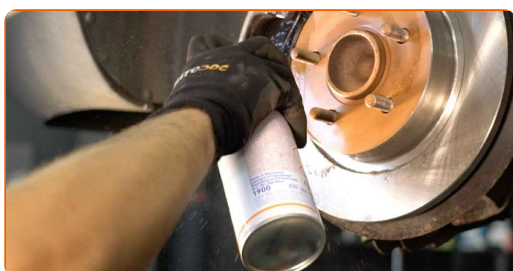
**28**

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



**29**

Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: shock absorbers – Mazda 3 BK. After applying the spray, wait a few minutes.

**30** Install the wheel.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Mazda 3 BK

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

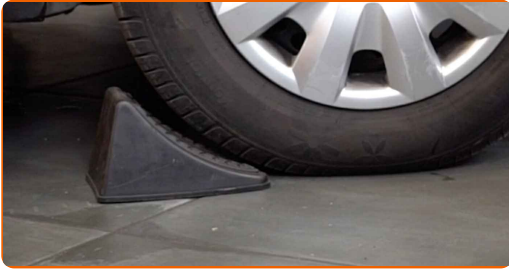


**32** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #19. Use a torque wrench. Tighten it to 118 nm torque.



33

Remove the jacks and chocks.



**WELL DONE!** 

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