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How to change rear coil springs on **Mazda 3 BK** – replacement guide



VIDEO TUTORIAL



(i) 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

The steps may slightly vary depending on the car design.



REPLACEMENT: COIL SPRINGS – MAZDA 3 BK. TOOLS YOU MIGHT NEED:

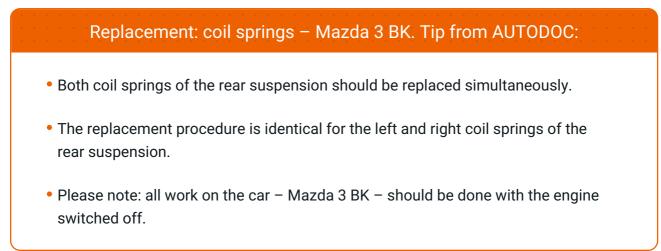


- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #17
- Drive socket # 17
- HEX bit no.H6.

- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Crow bar
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

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CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:



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.



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Unscrew the wheel bolts.



AUTODOC recommends:

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



Remove the wheel.



6

7

Clean the control arm fasteners. Use a wire brush. Use WD-40 spray.

Unscrew the fastener connecting the control arm to the rear knuckle. Use a drive socket #17. Use a ratchet wrench.







Support the arm. Use a hydraulic transmission jack.



9

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

10

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



11

Remove the fastening bolts (2 pieces).

Detach the lower part of the shock absorber.

13

12

Unscrew the fastener connecting the stabilizer link to the control arm. Use a combination spanner #17. Use HEX No.H6. Use a ratchet wrench.





Remove the fastening bolt.



15

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.

16

Pull down the suspension control arm. Use a crowbar.

17

Remove the spring.



18

Remove the rubber spring spacer.



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Install the rubber spacer on the new coil spring.



20

Install the spring.



Replacement: coil springs - Mazda 3 BK. Professionals recommend:

• Make sure that the coil spring is correctly positioned in its mounting seats.



Support the arm. Use a hydraulic transmission jack.





Install the fastening bolt. Use a crowbar.



23

Tighten the fastener connecting the suspension arm to the rear knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 75 Nm torque.



24

Attach the lower part of the shock absorber.

25

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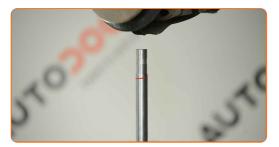
Install the fastening bolt.

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



27

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.



28

Install the fastener connecting the stabiliser link to the control arm and tighten it. Use a combination spanner #17. Use HEX No.H6. Use a torque wrench. Tighten it to 52 Nm torque.



Treat the shock absorber fasteners. Treat all joints of the arm. Treat all joints of the stabiliser link. Use copper grease.

30

29

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



31

Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

 Replacement: coil springs – Mazda 3 BK. After applying the spray, wait a few minutes.



Install the wheel.



AUTODOC recommends:

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



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



34

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.



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Remove the jacks and chocks.





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