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How to change rear coil springs on MAZDA 3

Hatchback (BK) – replacement guide







SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

i Important!

This replacement procedure can be used for:
MAZDA 3 Hatchback (BK) 1.6, MAZDA 3 Hatchback (BK) 2.0, MAZDA 3 Hatchback
(BK) 1.6 DI Turbo, MAZDA 3 Hatchback (BK) 1.4

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: MAZDA 3 Saloon (BK) 1.6

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REPLACEMENT: COIL SPRINGS – MAZDA 3 HATCHBACK (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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Replacement: coil springs – MAZDA 3 Hatchback (BK). Tip from AUTODOC:

- Both coil springs of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the rear suspension.
- Please note: all work on the car MAZDA 3 Hatchback (BK) should be done
 with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Secure the wheels with chocks.

3



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



Raise the rear of the car and secure on supports.

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4 Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
 MAZDA 3 Hatchback (BK)
- Remove the wheel.



- 6 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.



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8 Support the arm. Use a hydraulic transmission jack.



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

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Remove the support from under the arm.



AUTODOC recommends:

- Replacement: shock absorbers MAZDA 3 Hatchback (BK). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.
- Pull down the suspension control arm. Use a crowbar.
- 17 Remove the spring.



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 Hatchback (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.

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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.



- Attach the lower part of the shock absorber.
- 25 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.



Remove the support from under the arm.



AUTODOC recommends:

 Replacement: shock absorbers – MAZDA 3 Hatchback (BK). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

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



Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

 Replacement: coil springs – MAZDA 3 Hatchback (BK). After applying the spray, wait a few minutes.

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Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. MAZDA 3 Hatchback (BK)
- 33 Screw in the wheel bolts. Use wheel impact socket #19.



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.





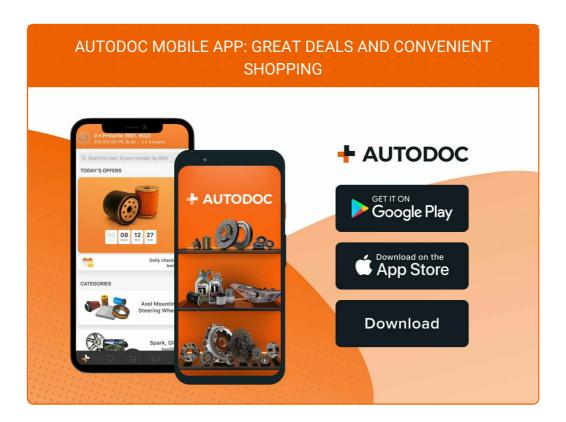
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