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How to change rear coil springs on **BMW 1 Convertible (E88)** – 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: BMW 1 Convertible (E88) 120i 2.0, BMW 1 Convertible (E88) 125i 3.0, BMW 1 Convertible (E88) 118i 2.0, BMW 1 Convertible (E88) 120d 2.0, BMW 1 Convertible (E88) 118d 2.0, BMW 1 Convertible (E88) 123d 2.0

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: BMW 3 Saloon (E90) 318i 2.0

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## REPLACEMENT: COIL SPRINGS – BMW 1 CONVERTIBLE (E88). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #21
- Drive socket # E12
- Drive socket # 21

- Wheel impact socket #17
- Ratchet wrench
- Flat Screwdriver
- Crow bar
- Hydraulic transmission jack
- Wheel chock

**Buy tools** 

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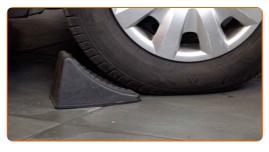
### Replacement: coil springs – BMW 1 Convertible (E88). AUTODOC experts recommend:

- 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 BMW 1 Convertible (E88) should be done
  with the engine switched off.

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

1 Secure the wh

Secure the wheels with chocks.



Loosen the wheel mounting bolts. Use wheel impact socket #17.



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.
   BMW 1 Convertible (E88)
- 5 Remove the wheel.

6



Support the stub axle. Use a hydraulic transmission jack.



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

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8 Unscrew the lower fastener of the shock absorber. Use a drive socket #E12. Use a ratchet wrench.



- Glean 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 combination spanner #21. Use a drive socket #21. Use a ratchet wrench.



- Remove the fastening bolt. Use a flat screwdriver.
  - Remove the support from under the stub axle.



#### **AUTODOC** recommends:

• Replacement: coil springs – BMW 1 Convertible (E88). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

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- Pull down the suspension control arm. Use a crowbar.
- Remove the spring.



Clean the coil spring mounting seats. Use a wire brush. Use WD-40 spray.



- Pull down the suspension control arm. Use a crowbar.
- 17 Install the spring.



Replacement: coil springs – BMW 1 Convertible (E88). Tip from AUTODOC experts:

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

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Support the stub axle. Use a hydraulic transmission jack.



Tighten the lower fastener of the shock absorber. Use a drive socket #E12. Use a torque wrench. Tighten it to 47 Nm torque.



- Treat the shock absorber fasteners. Use copper grease.
- 21 Install the fastening bolt. Use a flat screwdriver.
- Tighten the fastener connecting the suspension arm to the rear knuckle. Use a combination spanner #21. Use a drive socket #21. Use a torque wrench. Tighten it to 100 Nm torque.



Treat the rear knuckle fasteners. Use copper grease.

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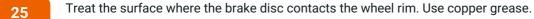




Remove the support from under the stub axle.

#### **AUTODOC** recommends:

 BMW 1 Convertible (E88) – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.





Clean the brake disk surface. Use a brake cleaner.



#### **AUTODOC** recommends:

 Replacement: coil springs – BMW 1 Convertible (E88). After applying the spray, wait a few minutes.







27 Install the wheel.



#### **AUTODOC** recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW 1 Convertible (E88)
- Screw in the wheel bolts. Use wheel impact socket #17.



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 120 Nm torque.



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Remove the jacks and chocks.







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