

#### 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 Hatchback (E87) 116i 1.6, BMW 1 Hatchback (E87) 116i 2.0, BMW 1
Hatchback (E87) 118i 2.0, BMW 1 Hatchback (E87) 120i 2.0, BMW 1 Hatchback (E87) 130i 3.0, BMW 1 Hatchback (E87) 116d 2.0, BMW 1 Hatchback (E87) 118d 2.0, BMW 1 Hatchback (E87) 120d 2.0, BMW 1 Hatchback (E87) 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: FRONT LOWER ARM – BMW 1 HATCHBACK (E87). TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- Combination spanner #21
- Torx bit T30

- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Hammer
- Hydraulic transmission jack
- Wheel chock

**Buy tools** 

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## Replacement: front lower arm – BMW 1 Hatchback (E87). AUTODOC recommends:

- The replacement procedure is identical for the left and right lower control arms.
- Please note: all work on the car BMW 1 Hatchback (E87) should be done with the engine switched off.

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

Secure the wheels with chocks.



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



- Raise the front of the car and secure on supports.
- 4 Unscrew the wheel bolts.



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#### **AUTODOC** recommends:

Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
 BMW 1 Hatchback (E87)

5 Remove the wheel.

8



Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



Unscrew the fastener connecting the ball joint of the front control arm to the steering knuckle. Use a combination spanner #21. Use Torx T30. Use a ratchet wrench.



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

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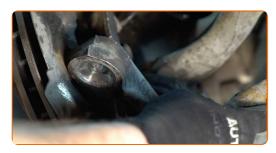




Unscrew the rear fastener connecting the control arm to the subframe. Use a combination spanner #18 (2 pieces).



- Remove the rear fastener of the control arm. Use a hammer.
- Disconnect the lower arm from the steering knuckle. Use a hammer.



Remove the arm.

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



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14 Install a new arm.



Replacement: front lower arm – BMW 1 Hatchback (E87). Professionals recommend:

- During the installation process, use only new bolts and nuts.
- Do not damage the ball joint cover.
- Connect the lower arm to the steering knuckle.
- Screw in the fastener connecting the ball joint of the front control arm to the steering knuckle. Use a combination spanner #21. Use Torx T30. Use a torque wrench. Tighten it to 165 Nm torque.



Treat the fasteners of the ball joint. Use copper grease.



Install the rear fastener of the control arm.

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Screw the rear fastener connecting the control arm to the subframe. Use a combination spanner #18 (2 pieces).



20 Prop up the steering knuckle. Use a hydraulic transmission jack.



Tighten the rear fastener of the control arm. Use a combination spanner #18 (2 pieces). Use a torque wrench. Tighten it to 68 Nm torque.+90°



#### **AUTODOC** recommends:

• Important! Be sure to use new fasteners.

Treat all joints of the arm. Use copper grease.



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Remove the support from under the steering knuckle.



#### AUTODOC recommends:

 Replacement: front lower arm – BMW 1 Hatchback (E87). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

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



Clean the brake disk surface. Use a brake cleaner.

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#### **AUTODOC** recommends:

 Replacement: front lower arm – BMW 1 Hatchback (E87). After applying the spray, wait a few minutes.

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Install the wheel.



## AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. BMW 1 Hatchback (E87)
- 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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