



How to change rear  
upper arm on **BMW 1  
Hatchback (E87)** –  
replacement guide

### SIMILAR VIDEO TUTORIAL



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

### Important!

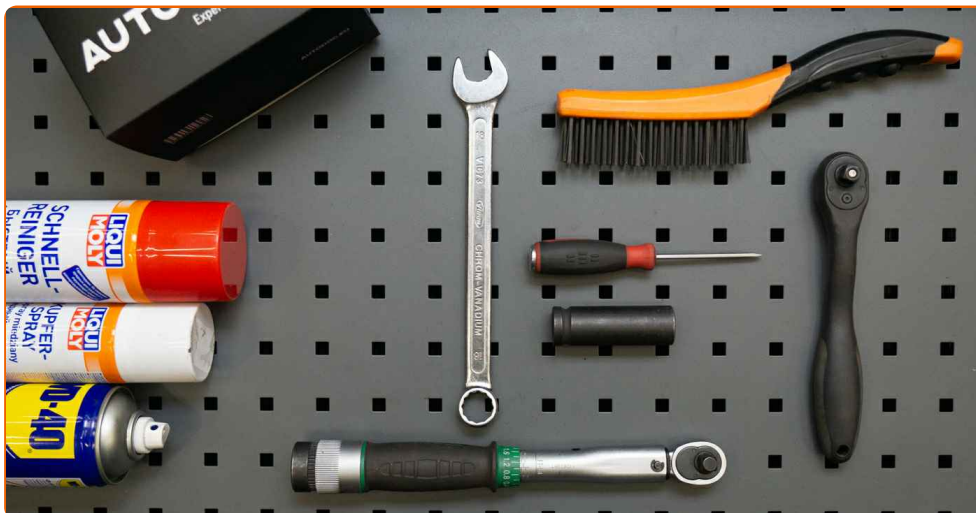
This replacement procedure can be used for:

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

REPLACEMENT: REAR UPPER ARM – BMW 1 HATCHBACK (E87). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- Drive socket # 18
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Tap wrench
- Flat Screwdriver
- Hydraulic transmission jack
- Wheel chock

**Buy tools**

Replacement: rear upper arm – BMW 1 Hatchback (E87). AUTODOC experts recommend:

- The replacement procedure is identical for the right and left upper 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:

1

Secure the wheels with chocks.



2

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



3

Raise the rear of the car and secure on supports.

4

Unscrew the wheel bolts.

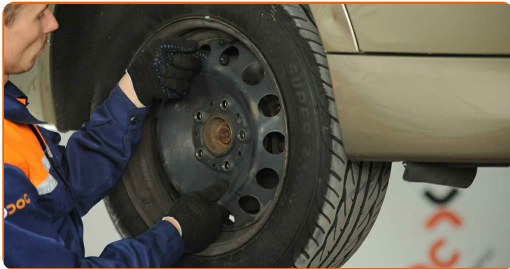


**AUTODOC recommends:**

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

**5**

Remove the wheel.



**6**

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

**7**

Unscrew the fastener connecting the control arm to the rear knuckle. Use a drive socket #18. Use a tap wrench. Use a ratchet wrench.

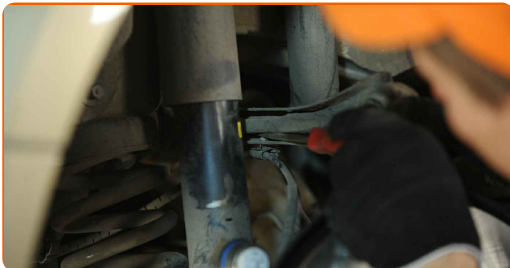


**8**

Remove the fastening bolt.

**9**

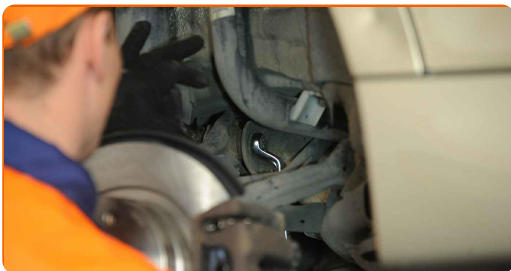
Detach the suspension arm from the rear knuckle.



**10**

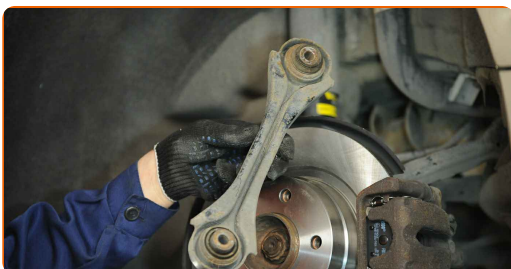
Disconnect the ABS sensor wiring. Use a flat screwdriver.

**11** Unscrew the arm fastening to the beam. Use a combination spanner #18 (2 pieces).

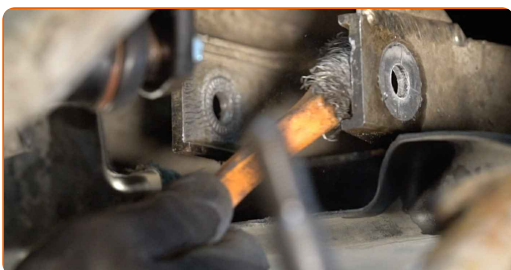


**12** Remove the rear fastener of the control arm.

**13** Remove the rear upper arm.



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



**15** Mount the rear upper arm.



Replacement: rear upper arm – BMW 1 Hatchback (E87). AUTODOC experts recommend:

- During the installation process, use only new bolts and nuts.

**16** Install the rear fastener of the control arm.

**17** Tighten the arm fastening to the beam. Use a combination spanner #18 (2 pieces). Use a torque wrench. Tighten it to 100 Nm torque.



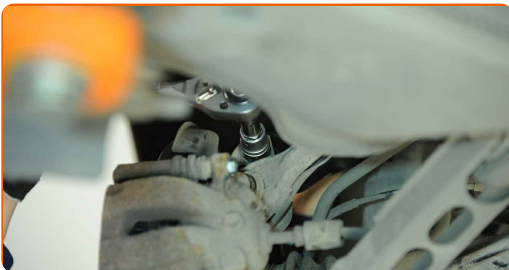
AUTODOC recommends:

- Important! Be sure to use new fasteners.

**18** Attach the suspension arm to the rear knuckle.

**19** Install the fastening bolt.

**20** Screw in the fastener that connects the control arm to the rear knuckle. Use a drive socket #18. Use a ratchet wrench.



**21** Support the stub axle. Use a hydraulic transmission jack.



**22** Tighten the control arm fastener to the stub axle. Use a drive socket #18. Use a tap wrench. Use a torque wrench. Tighten it to 100 nm torque.

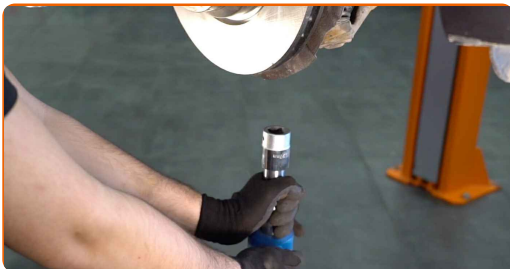
**AUTODOC recommends:**

- Important! Be sure to use new fasteners.

**23** Connect the ABS sensor wiring.



**24** Remove the support from under the stub axle.





**AUTODOC recommends:**

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

**25**

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



**26**

Clean the brake disk surface. Use a brake cleaner.

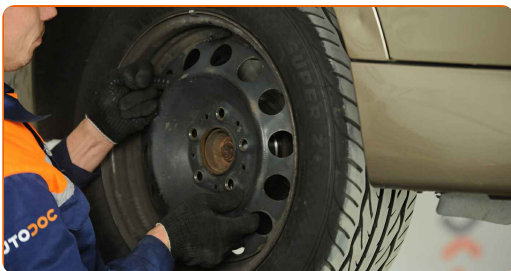


**AUTODOC recommends:**

- Replacement: rear upper arm – BMW 1 Hatchback (E87). 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 Hatchback (E87)

**28**

Screw in the wheel bolts. Use wheel impact socket #17.



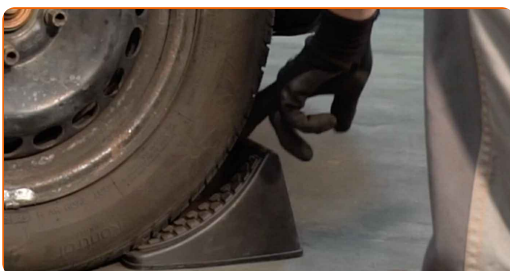
**29**

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.



**30**

Remove the jacks and chocks.



**WELL DONE!** 

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