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How to change front lower arm on **BMW Z4 Roadster (E89)** – 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 Z4 Roadster (E89) sDrive 20 i, BMW Z4 Roadster (E89) sDrive 28 i, BMW Z4 Roadster (E89) sDrive 23 i, BMW Z4 Roadster (E89) sDrive 30 i, BMW Z4 Roadster (E89) sDrive 35 i, BMW Z4 Roadster (E89) sDrive 35 is, BMW Z4 Roadster (E89) sDrive 18 i

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 Coupe (E92) 330i 3.0

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REPLACEMENT: FRONT LOWER ARM – BMW Z4 ROADSTER (E89). TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- Drive socket # 21

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

Buy tools

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Replacement: front lower arm – BMW Z4 Roadster (E89). AUTODOC recommends:

- The replacement procedure is identical for the left and right lower control arms.
- All work should be done with the engine stopped.

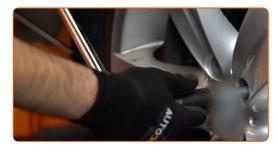
REPLACEMENT: FRONT LOWER ARM – BMW Z4 ROADSTER (E89). USE THE FOLLOWING PROCEDURE:

1

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.

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4

Unscrew the wheel bolts.



Replacement: front lower arm – BMW Z4 Roadster (E89). Tip from AUTODOC:

• To avoid injury, hold up the wheel when unscrewing the bolts.

5

Remove the wheel.



6

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



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AUTODOC recommends:

- Replacement: front lower arm BMW Z4 Roadster (E89). After applying the spray, wait a few minutes.
- Wear protective goggles.
- Unscrew the arm fastening to the beam. Use a combination spanner #18 (2 pieces).



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



9

Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #21. Use a tap wrench.



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10 Remove the support from under the steering knuckle.



Replacement: front lower arm – BMW Z4 Roadster (E89). Professionals recommend:

• Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

Disconnect the lower arm from the steering knuckle.



Unscrew the end fastening nut to the steering knuckle. Use a drive socket #21.



12

13

Disconnect the tie rod end from the steering knuckle.



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14 Remove the fastening bolt.



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



17 Install a new arm.



Replacement: front lower arm – BMW Z4 Roadster (E89). AUTODOC experts recommend:

- During the installation process, use only new bolts and nuts.
- Do not damage the ball joint cover.

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18 Install the fastening bolt.



Connect the lower arm to the steering knuckle.



Screw the fastener connecting the ball joint to the steering knuckle. Use a drive socket #21.



Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.



Connect the tie rod end to the steering knuckle.



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Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #21. Use a torque wrench. Tighten it to 80 nm torque.



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



Tighten the arm fastening to the beam. 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.
- Remove the support from under the steering knuckle.



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AUTODOC recommends:

• Replacement: front lower arm – BMW Z4 Roadster (E89). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.





Treat all joints of the arm. Use copper grease.

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



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Clean the brake disk surface. Use a brake cleaner.



Replacement: front lower arm – BMW Z4 Roadster (E89). Tip from AUTODOC experts:

• After applying the spray, wait a few minutes.

31

Install the wheel.



AUTODOC recommends:

• Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW Z4 Roadster (E89)

32

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



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Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 120 nm torque.



34

Remove the jacks and chocks.



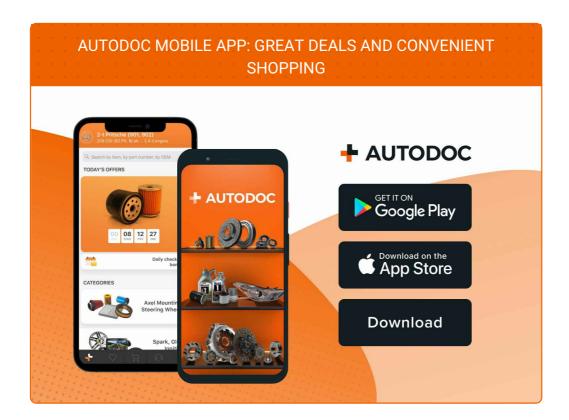
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