

VIDEO TUTORIAL



i Important!

This replacement procedure can be used for:

BMW 3 Touring (E91) 325i 3.0, BMW 3 Touring (E91) 318d 2.0, BMW 3 Saloon (E90) 318d 2.0, BMW 1 Coupe (E82) M, BMW X1 (E84) xDrive 28 i, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW 3 Saloon (E90) 320d xDrive 2.0, BMW X1 (E84) sDrive 20 i, BMW X1 (E84) xDrive 20 i, BMW 1 Coupe (E82) 118d 2.0, BMW 3 Coupe (E92) 318i 2.0, BMW 3 Convertible (E93) 318i 2.0, BMW 3 Convertible (E93) 325d 3.0, BMW 1 Hatchback (E81) 116i 1.6, (+ 136)

The steps may slightly vary depending on the car design.

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REPLACEMENT: FRONT LOWER ARM – BMW E90. 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 E90. AUTODOC recommends:

- The replacement procedure is identical for the left and right lower control arms.
- Please note: all work on the car BMW E90 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 E90

5 Remove the wheel.

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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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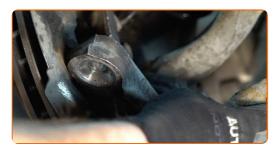




Unscrew the rear fastener connecting the control arm to the subframe. Use a combination spanner #18 (2 pieces).



- 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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Install a new arm.



Replacement: front lower arm – BMW E90. 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.



18 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 E90. 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 E90. 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 E90

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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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