

#### 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 3 Touring (E91) 325i 3.0, BMW 3 Touring (E91) 318d 2.0, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW 3 Touring (E91) 320i 2.0, BMW 3 Touring (E91) 325i 2.5, BMW 3 Touring (E91) 330i 3.0, BMW 3 Touring (E91) 320d 2.0, BMW 3 Touring (E91) 330d 3.0, BMW 3 Touring (E91) 325xi 2.5, BMW 3 Touring (E91) 330xi 3.0, BMW 3 Touring (E91) 330xd 3.0, BMW 3 Touring (E91) 335i 3.0, BMW 3 Touring (E91) 325d 3.0, (+ 11)

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 3 TOURING (E91). 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 3 Touring (E91). AUTODOC recommends:

- The replacement procedure is identical for the left and right lower control arms.
- Please note: all work on the car BMW 3 Touring (E91) 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 3 Touring (E91)



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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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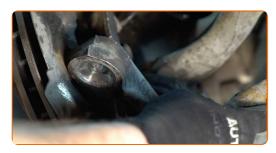




Unscrew the rear fastener connecting the control arm to the subframe. Use a combination spanner #18 (2 pieces).



- 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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14 Install a new arm.



# Replacement: front lower arm – BMW 3 Touring (E91). 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.



17 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 3 Touring (E91). 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 3 Touring (E91). After applying the spray, wait a few minutes.

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26 Install the wheel.

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# AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. BMW 3 Touring (E91)
- 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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