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How to change rear strut mount on **BMW 3 Saloon** (**E90**) – 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 3 Saloon (E90) 320i 2.0, BMW 3 Saloon (E90) 325i 2.5, BMW 3 Saloon (E90) 330i 3.0, BMW 3 Saloon (E90) 320d 2.0, BMW 3 Saloon (E90) 318i 2.0, BMW 3 Saloon (E90) 318d 2.0, BMW 3 Saloon (E90) 330d 3.0, BMW 3 Saloon (E90) 320si 2.0, BMW 3 Saloon (E90) 335i 3.0, BMW 3 Saloon (E90) 335d 3.0, BMW 3 Saloon (E90) 325d 3.0, BMW 3 Saloon (E90) 325i 3.0, BMW 3 Saloon (E90) 316i 1.6, BMW 3 Saloon (E90) 323i 2.5, BMW 3 Saloon (E90) 330d xDrive 3.0, (+6)

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 1 Coupe (E82) 125i 3.0

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# REPLACEMENT: STRUT MOUNT – BMW 3 SALOON (E90). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 14
- Drive socket # 16
- Torx bit T40
- Wheel impact socket #17

- Ratchet wrench
- Torque wrench
- Shock absorber socket #DD6
- Phillips screwdriver
- Clip removal tool
- Hydraulic transmission jack
- Wheel chock

**Buy tools** 

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## Replacement: strut mount – BMW 3 Saloon (E90). AUTODOC experts recommend:

- The replacement procedure is identical for the mounts of the right and left shock absorbers of the rear suspension.
- Both mounts of the rear shock struts should be replaced simultaneously.
- Be sure to replace all self-locking nuts and bolts during installation.
- All work should be done with the engine stopped.

# REPLACEMENT: STRUT MOUNT – BMW 3 SALOON (E90). USE THE FOLLOWING PROCEDURE:

- Open the boot lid.
- Fold down the backrests of the rear seats.
- Raise the lower lining of the boot.



Unscrew the fastener of the central protective plastic panel. Use a Phillips screwdriver. Use a clip removal tool. Use Torx T40. Use a ratchet wrench.



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5 Remove the central protective plastic panel.



Unscrew the fastener of the boot side lining. Use a clip removal tool. Use Torx T40. Use a ratchet wrench.



Detach the boot side lining.

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Remove the mount cap from the shock absorber upper fastener.



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Loosen the upper fastener of the shock absorber. Use a shock absorber socket DDNº6. Use a drive socket #16. Use a ratchet wrench.



Secure the wheels with chocks.



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



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



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### Replacement: strut mount – BMW 3 Saloon (E90). Tip:

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

14 Remove the wheel.



Clean the shock absorber fasteners. Use a wire brush. Use WD-40 spray.



Unscrew the lower fastener of the shock absorber. Use a drive socket #14. Use a ratchet wrench.



Unscrew the upper fastener of the shock absorber.



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#### **AUTODOC** recommends:

• Important! Hold the shock absorber while unscrewing the fastening bolts. BMW 3 Saloon (E90)

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Remove the shock absorber.



Remove the shock absorber mount, boot and bump stop.



Replacement: strut mount – BMW 3 Saloon (E90). AUTODOC experts recommend:

 Examine the shock absorber dust cap and the bump stop. Replace them if necessary.

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Install the new mount, boot, and bump stop on the shock absorber.



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Clean the shock absorber mounting seats. Use a wire brush. Use WD-40 spray.



Place the shock absorber in the wheel arch and secure it.



#### **AUTODOC** recommends:

- BMW 3 Saloon (E90) To avoid injury, hold the shock absorber while screwing in the fastening bolts.
- Support the stub axle. Use a hydraulic transmission jack.



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Screw in the lower fastener of the shock absorber. Use a drive socket #14. Use a ratchet wrench.



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Remove the support from under the stub axle.



#### AUTODOC recommends:

- Replacement: strut mount BMW 3 Saloon (E90). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.
- Tighten the top shock absorber fastening. Use a shock absorber socket DDNº6. Use a drive socket #16. Use a torque wrench. Tighten it to 27 Nm torque.



Treat the shock absorber fasteners. Use copper grease.



Install the mount cap on the shock absorber upper fastener.



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Tighten the lower fastener of the shock absorber. Use a drive socket #14. Use a torque wrench. Tighten it to 60 Nm torque.



- Treat the shock absorber fasteners. Treat all joints of the arm. Use copper grease.
- Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



Clean the brake disk surface. Use a brake cleaner.



Replacement: strut mount – BMW 3 Saloon (E90). Tip from AUTODOC:

• After applying the spray, wait a few minutes.

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33 Install the wheel.

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### Replacement: strut mount – BMW 3 Saloon (E90). Tip from AUTODOC experts:

• To avoid injury, hold up the wheel when screwing in the fastening bolts.

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.



Attach the side lining of the boot.



Screw in the fastener of the boot side lining. Use Torx T40. Use a ratchet wrench.



Install the central protective plastic panel.



Screw in the fastener of the central protective plastic panel. Use a Phillips screwdriver. Use Torx T40. Use a ratchet wrench.



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Put down the lower lining of the boot.



- Return the seat to its original position.
- Close the lid of the luggage compartment.



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