



How to change front  
strut mount on **Mazda 3**  
**BK** – replacement guide

## VIDEO TUTORIAL



### Important!

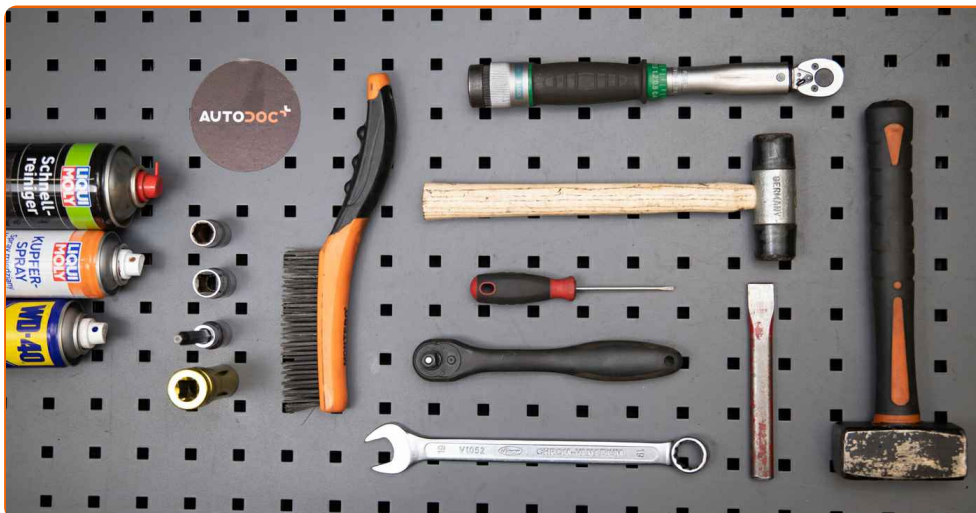
This replacement procedure can be used for:

MAZDA 3 Hatchback (BK) 1.6, MAZDA 3 Saloon (BK) 2.0, MAZDA 3 Saloon (BK) 1.6 DI Turbo, MAZDA 3 Hatchback (BK) 1.6 DI Turbo, MAZDA 3 Hatchback (BK) 1.4, MAZDA 3 Hatchback (BK) 2.3 MZR, MAZDA 3 Hatchback (BK) 2.3 MZR Sport, MAZDA 3 Hatchback (BK) 2.3 DiSi Turbo MPS, MAZDA 3 Hatchback (BK) 2.3 MPS Turbo, MAZDA 3 Saloon (BK) 2.3, MAZDA 3 Hatchback (BK) 2.0 MZR-CD, MAZDA 3 Saloon (BK) 2.0 MZR-CD

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The steps may slightly vary depending on the car design.

**REPLACEMENT: STRUT MOUNT – MAZDA 3 BK. TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 14
- Drive socket # 17
- Combination spanner #19
- HEX bit no.H6.
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Hydraulic strut spring compressor
- Flat Screwdriver
- Rubber mallet
- Flat chisel
- Hammer
- Fender cover
- Wheel chock

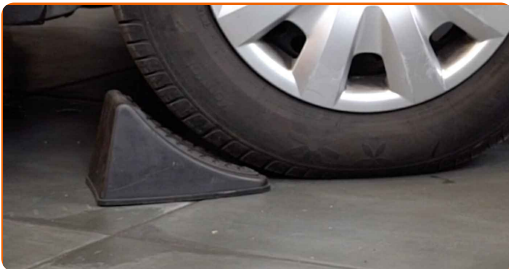
**BUY TOOLS**

Replacement: strut mount – Mazda 3 BK. AUTODOC recommends:

- The replacement procedure is identical for the mounts of the left and right shock struts of the front suspension.
- All mounts of the front shock struts should be replaced simultaneously.
- Please note: all work on the car – Mazda 3 BK – should be done with the engine switched off.

**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

**1** Secure the wheels with chocks.



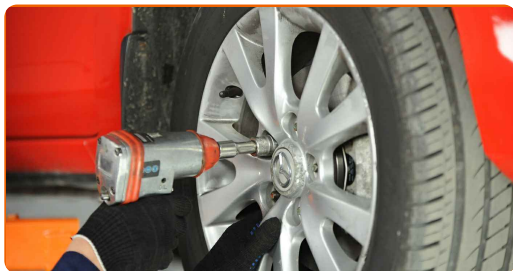
**2** Loosen the wheel mounting bolts. Use wheel impact socket #19.



**3** Raise the front of the car and secure on supports.



**4** Unscrew the wheel bolts.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
Mazda 3 BK

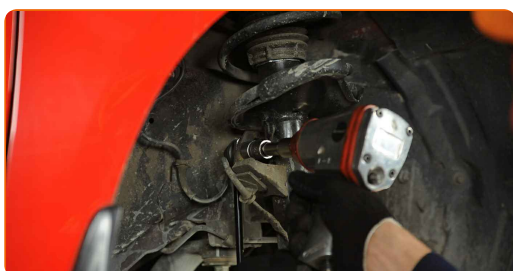
**5** Remove the wheel.



**6** Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



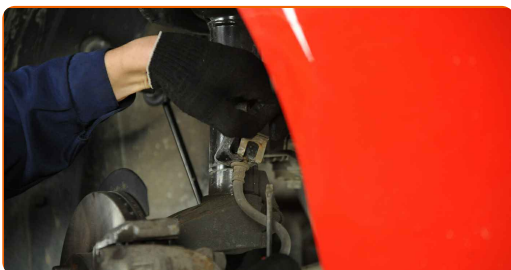
**7** Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a ratchet wrench.



**8** Remove the ABS wiring harness bracket.

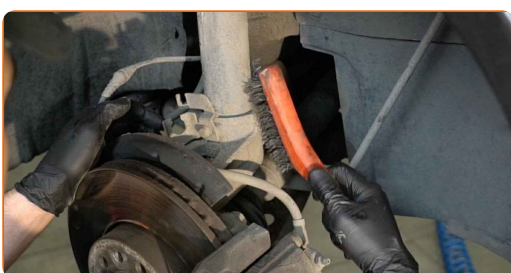
**9** Remove the stabilizer rod.

**10** Remove the fastener attaching the brake hose to the shock strut. Use a flat screwdriver.

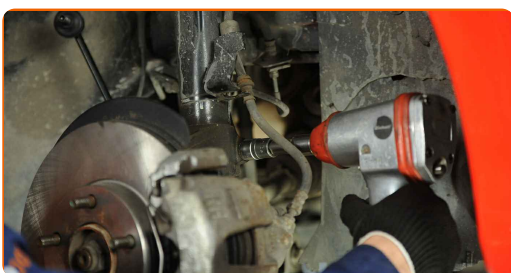


**11** Detach the brake hose from the shock strut.

**12** Clean the lower fastener connecting the suspension strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



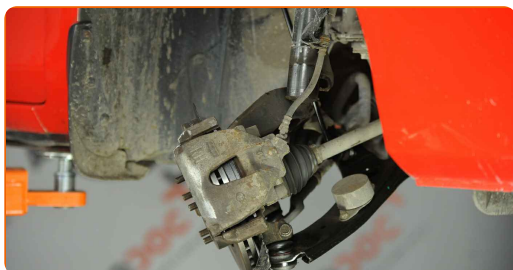
**13** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



**14** Remove the fastening bolt.

**15** Release the lower fastener connecting the shock strut to the steering knuckle. Use a flat metal-working chisel. Use a hammer.

**16** Disconnect the steering knuckle from the shock absorber strut. Use a rubber mallet.



**17** Lower the car.



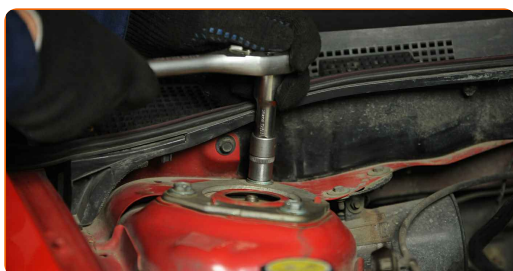
**18** Open the bonnet.



**19** Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

**20** Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.

**21** Unscrew the upper fasteners of the shock strut (3 pieces). Use a drive socket #14. Use a ratchet wrench.

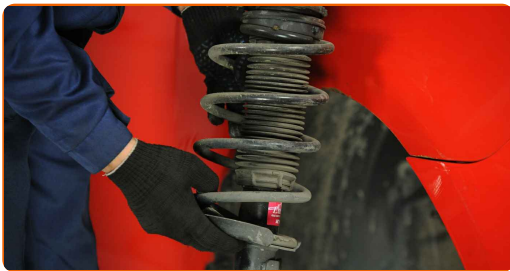


**AUTODOC recommends:**

- Important! Hold the suspension strut while unscrewing the fastening bolts.  
Mazda 3 BK

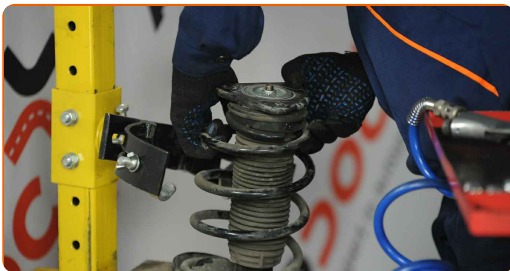
**22**

Remove the suspension strut.



**23**

Set the shock absorber strut on the spring compressor tool.



**Replacement: strut mount – Mazda 3 BK. AUTODOC experts recommend:**

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

**24**

Compress the spring.



**25** Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



**26** Remove the strut piston rod nut. Use a combination spanner #19. Use HEX No.H6. Use a ratchet wrench.



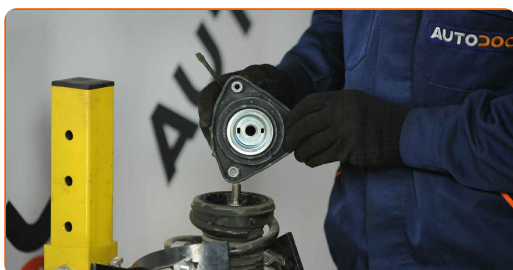
**27** Remove the top strut mount. Use a flat screwdriver.



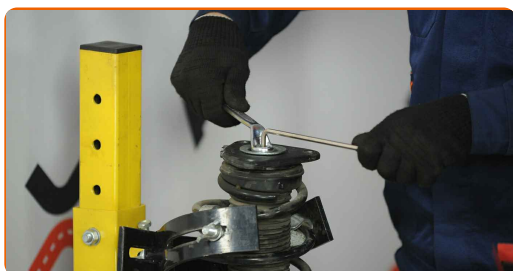
**Replacement: strut mount – Mazda 3 BK. AUTODOC recommends:**

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

**28** Install a new top shock strut mount.



- 29 Tighten the shock strut piston rod nut. Use a combination spanner #19. Use HEX No.H6. Use a torque wrench. Tighten it to 60 Nm torque.



**Replacement: strut mount – Mazda 3 BK. Tip:**

- Check to make sure the spring is positioned correctly. Avoid its misalignment.

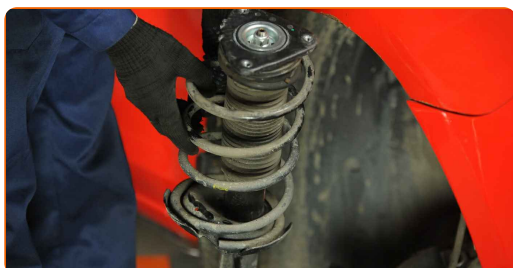
- 30 Decompress the spring.

- 31 Treat the shock strut rod. Use copper grease.

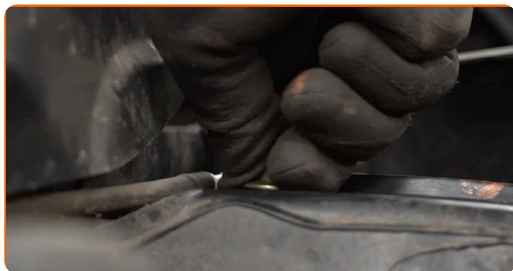


- 32 Remove the assembled shock strut.

- 33 Install the shock strut into the wheel arch.



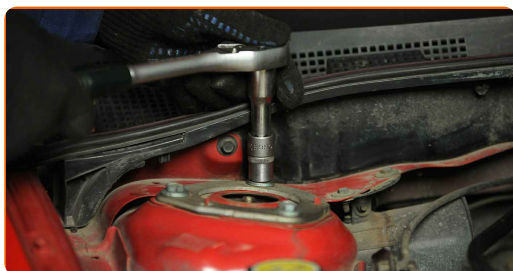
**34** Secure the upper fasteners of the shock strut (3 pieces).



**AUTODOC recommends:**

- Mazda 3 BK – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

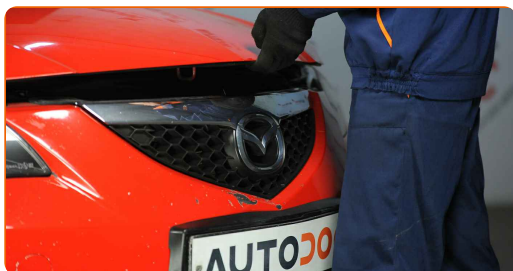
**35** Tighten the upper fasteners of the shock strut (3 pieces). Use a drive socket #14. Use a torque wrench. Tighten it to 30 Nm torque.



**36** Treat the fasteners of the shock strut mount. Use copper grease.

**37** Remove the fender protection cover.

**38** Close the hood.



**39** Raise the front of the car and secure on supports.



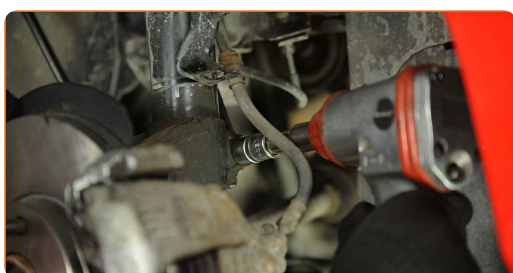
**40** Fix the shock absorber strut on the steering knuckle. Use a rubber mallet.

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



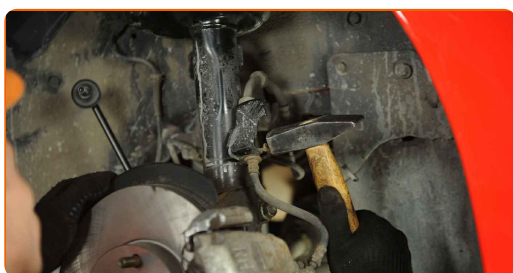
**42** Install the fastening bolt.

**43** Tighten the lower fastening of the shock absorber. Use a drive socket #17. Use a torque wrench. Tighten it to 70 Nm torque.



**44** Fasten the brake hose on the strut.

**45** Install the brake hose retaining clip. Use a rubber mallet.



**46** Remove the support from under the steering knuckle.



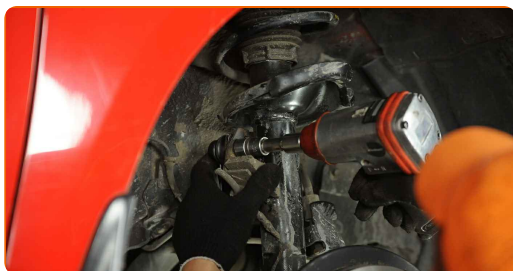
**AUTODOC recommends:**

- Replacement: strut mount – Mazda 3 BK. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

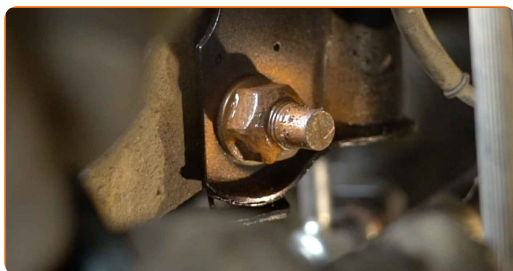
**47** Install the transverse stabilizer link.

**48** Install the ABS wiring harness bracket.

**49** Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a torque wrench. Tighten it to 50 Nm torque.

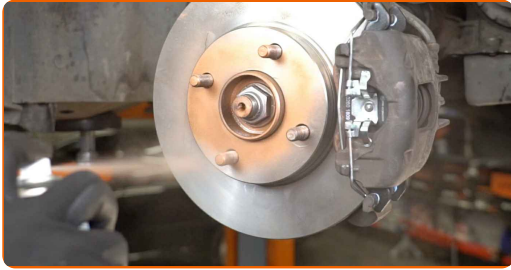


**50** Treat the shock strut fasteners. Treat all joints of the stabiliser link. Use copper grease.



**51**

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



**52**

Clean the brake disk surface. Use a brake cleaner.

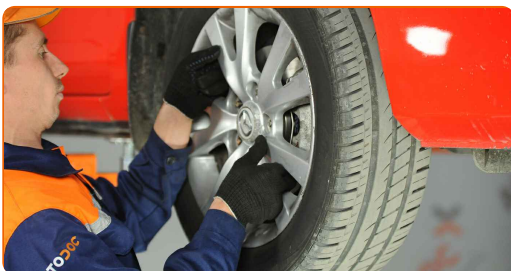


**AUTODOC recommends:**

- Replacement: strut mount – Mazda 3 BK. After applying the spray, wait a few minutes.

**53**

Install the wheel.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Mazda 3 BK

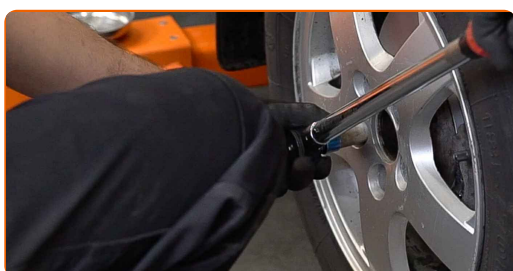
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Screw in the wheel bolts. Use wheel impact socket #19.



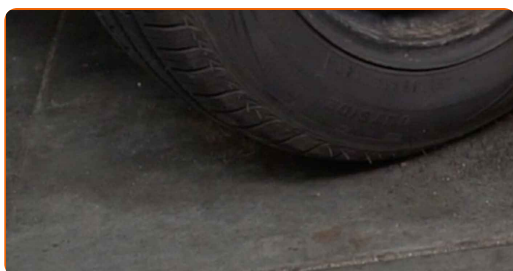
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Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #19. Use a torque wrench. Tighten it to 118 nm torque.



56

Remove the jacks and chocks.



**WELL DONE!** 

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