



How to change front  
strut mount on  
**Mercedes W168** –  
replacement guide

## VIDEO TUTORIAL



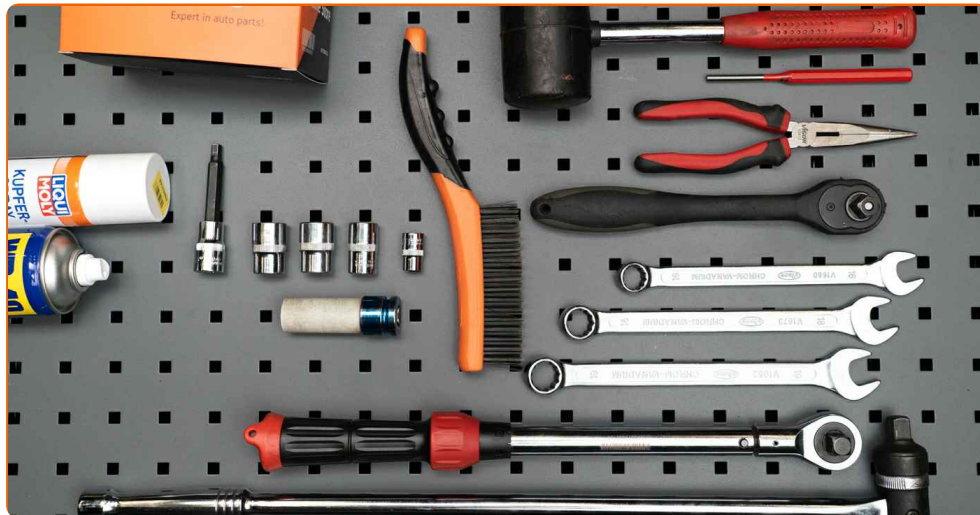
### **ⓘ Important!**

This replacement procedure can be used for:

MERCEDES-BENZ A-Class (W168) A 140 (168.031, 168.131), MERCEDES-BENZ A-Class (W168) A 160 CDI (168.007), MERCEDES-BENZ A-Class (W168) A 170 CDI (168.008), MERCEDES-BENZ A-Class (W168) A 190 (168.032, 168.132), MERCEDES-BENZ A-Class (W168) A 160 CDI (168.006), MERCEDES-BENZ A-Class (W168) A 170 CDI (168.009, 168.109), MERCEDES-BENZ A-Class (W168) A 210 (168.035, 168.135)

The steps may slightly vary depending on the car design.

REPLACEMENT: STRUT MOUNT – MERCEDES W168.  
LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # E12
- Drive socket # 16
- Drive socket # 18
- Drive socket # 19
- HEX bit No.H7.
- Combination spanner #16
- Combination spanner #18
- Combination spanner #19
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Tap wrench
- Pin punch
- Rubber mallet
- Pliers
- Hydraulic transmission jack
- Hydraulic strut spring compressor
- Fender cover
- Wheel chock

**BUY TOOLS**

Replacement: strut mount – Mercedes W168. Tip:

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

**REPLACEMENT: STRUT MOUNT – MERCEDES W168.  
RECOMMENDED SEQUENCE OF STEPS:**

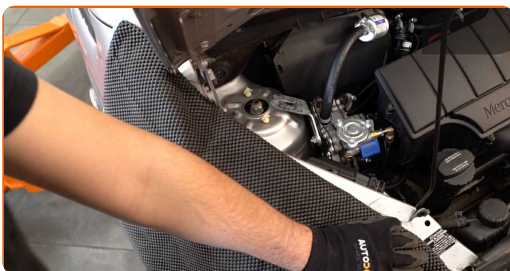
1

Open the bonnet.

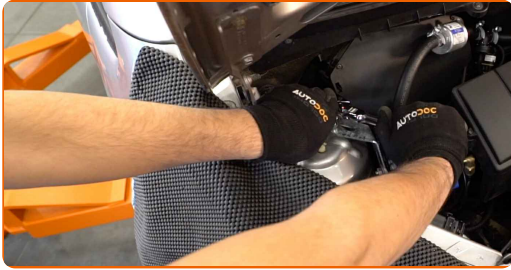


2

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



3 Loosen the upper fastener of the shock strut mount. Use a drive socket #E12. Use a ratchet wrench.



4 Secure the wheels with chocks.



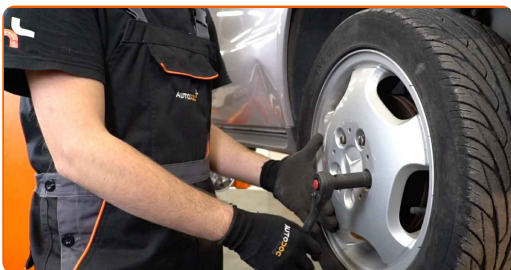
5 Loosen the wheel mounting bolts. Use wheel impact socket #17.



6 Raise the front of the car and secure on supports.



7 Unscrew the wheel bolts.



Replacement: strut mount – Mercedes W168. AUTODOC recommends:

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

8

Remove the wheel.



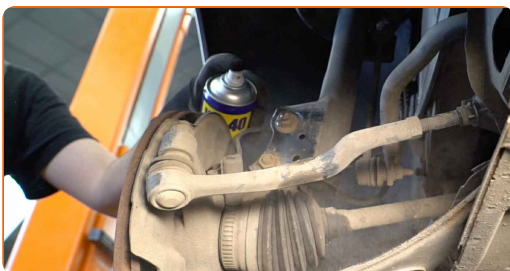
9.1

Clean the fasteners connecting the stabiliser link to the shock strut, and those connecting the shock strut to the steering knuckle. Use a wire brush.

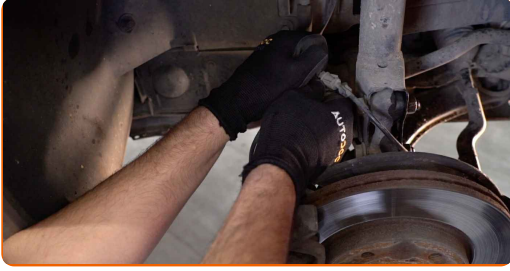


9.2

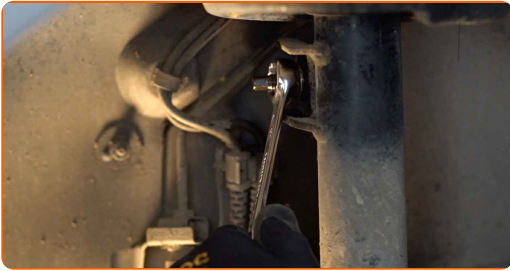
Use WD-40 spray.



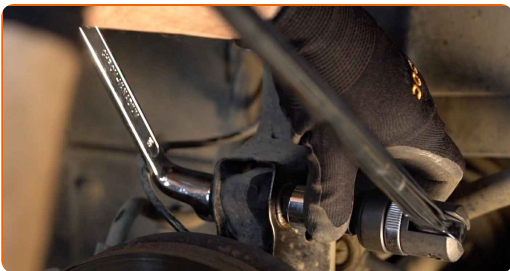
**10** Disconnect the wiring and the brake hose from the bracket on the shock strut.



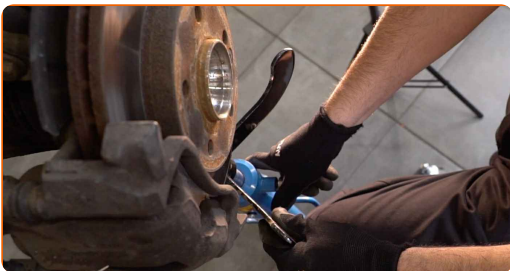
**11** Unscrew the nut and remove the stabilizer rod from the shock strut. Use a combination spanner #16.



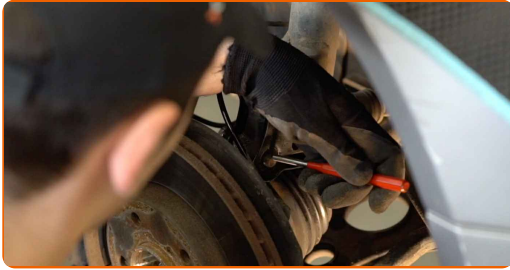
**12** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #18. Use a combination spanner #18. Use a ratchet wrench. Use a tap wrench.



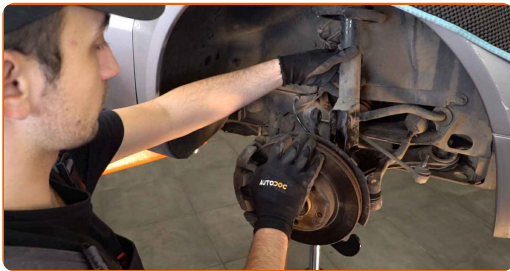
**13** Prop up the steering knuckle. Use a hydraulic transmission jack.



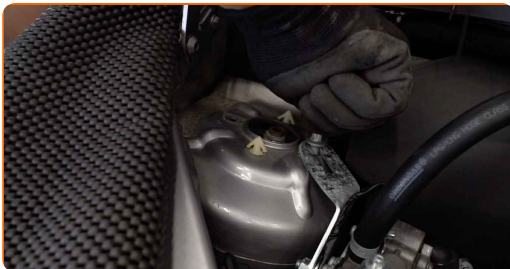
14 Remove the fastening bolts. Use a hammer. Use a pin punch.



15 Disconnect the steering knuckle from the shock absorber strut.



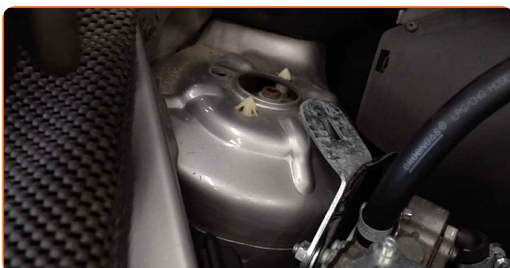
16 Unscrew the upper fastening of the shock absorber strut. Use a drive socket #E12.



**AUTODOC recommends:**

- Important! Hold the suspension strut while unscrewing the fastening bolts.  
Mercedes W168

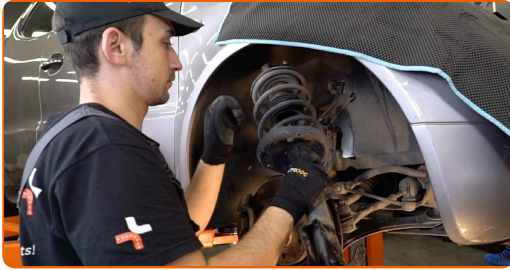
17 Release the plastic strut mount retainers. Use pliers.





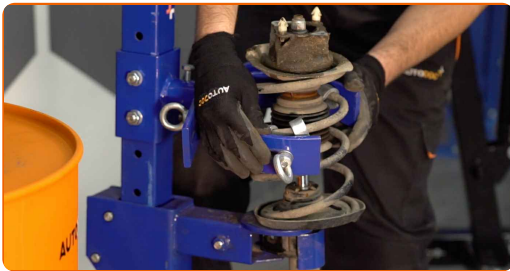
18

Remove the suspension strut.



19

Set the shock absorber strut on the spring compressor tool.

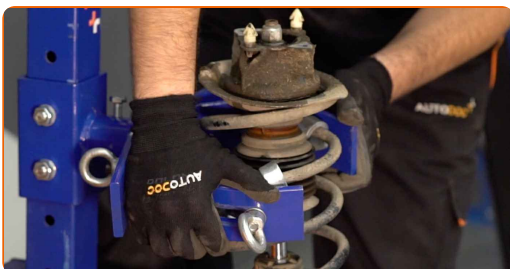


Replacement: strut mount – Mercedes W168. Professionals recommend:

- 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.

20

Compress the spring.



21

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



22

Remove the strut piston rod nut. Use a combination spanner #19. Use HEX No.H7. Use a ratchet wrench.



23

Remove the shock absorber mount, boot and bump stop.



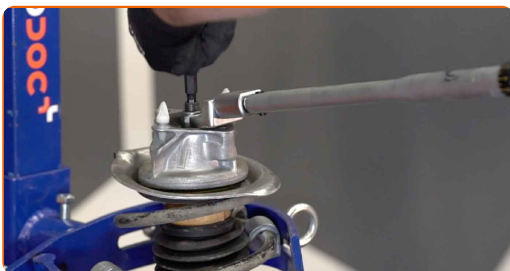
Replacement: strut mount – Mercedes W168. Tip from AUTODOC experts:

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

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



25 Tighten the shock strut piston rod nut. Use a drive socket #19. Use HEX No.H7. Use a torque wrench. Tighten it to 60 Nm torque.



Replacement: strut mount – Mercedes W168. Tip from AUTODOC:

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

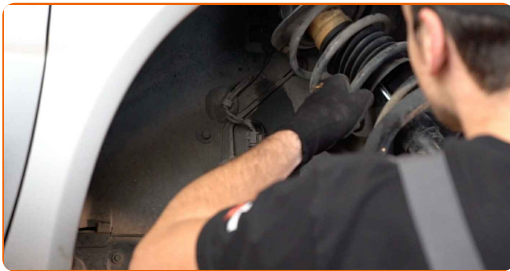
26 Decompress the spring.



27 Remove the assembled shock strut.



28 Install the shock strut into the wheel arch.



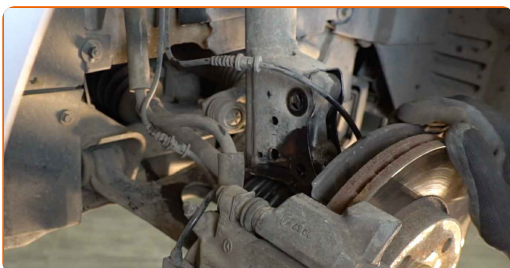
29 Secure the upper fasteners of the shock strut. Use a drive socket #E12. Use a ratchet wrench. Do not tighten it.



**AUTODOC recommends:**

- Mercedes W168 – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

30 Fix the shock absorber strut on the steering knuckle.



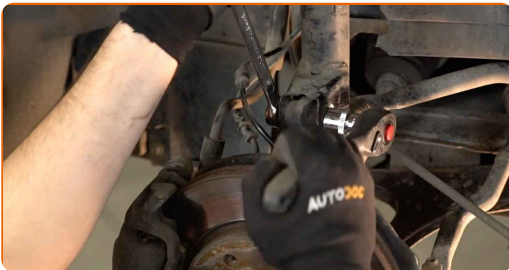
31

Install the new steering knuckle bolts.



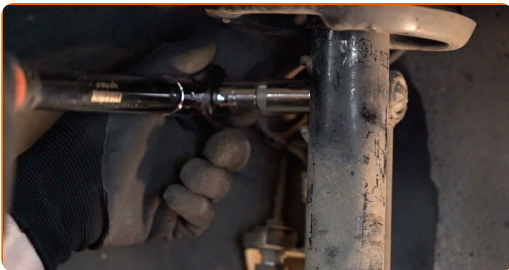
32

Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #18. Use a combination spanner #18. Use a torque wrench. Tighten it to 100 Nm torque.



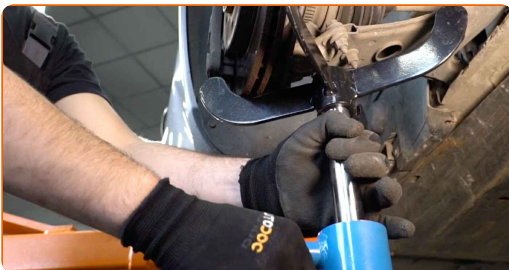
33

Secure the stabilizer link on the suspension strut. Use a drive socket #16. Use a torque wrench. Tighten it to 45 Nm torque.



34

Remove the support from under the steering knuckle.



AUTODOC recommends:

- Replacement: strut mount – Mercedes W168. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

35

Connect the fastener of the ABS sensor cable to the shock absorber strut. Fasten the brake hose on the strut.



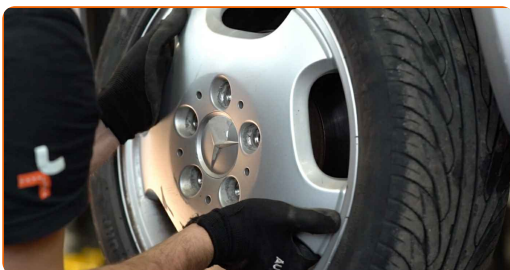
36

Clean the wheel rim mounting seat. Use a wire brush. Treat the contacting surface. Use copper grease.



37

Install the wheel.



Replacement: strut mount – Mercedes W168. AUTODOC experts recommend:

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

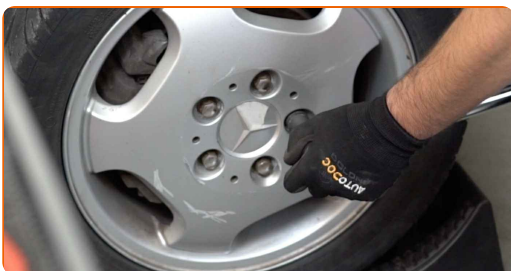
38 Screw in the wheel bolts. Use wheel impact socket #17.



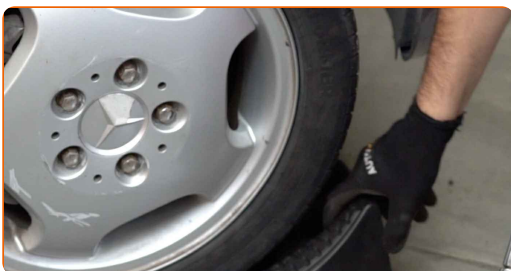
39 Tighten the shock strut top mount. Use a drive socket #E12. Use a torque wrench. Tighten it to 40 Nm torque.



40 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 110 Nm torque.



41 Remove the jacks and chocks.



42 Remove the fender protection cover.



43

Close the hood.



**WELL DONE!** 

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