



How to change front  
suspension strut on  
**Mercedes W245** –  
replacement guide

**VIDEO TUTORIAL**



** Important!**

This replacement procedure can be used for:

MERCEDES-BENZ A-Class (W169) E-CELL (169.090), MERCEDES-BENZ A-Class (W169) A 200 CDI (169.308, 169.008), MERCEDES-BENZ A-Class (W169) A 170 (169.032, 169.332), MERCEDES-BENZ A-Class (W169) A 150 (169.031, 169.331), MERCEDES-BENZ A-Class (W169) A 200 (169.033, 169.333), MERCEDES-BENZ A-Class (W169) A 160 CDI (169.006, 169.306), MERCEDES-BENZ A-Class (W169) A 180 CDI (169.007, 169.307), MERCEDES-BENZ A-Class (W169) A 200 CDI (169.008, 169.308), MERCEDES-BENZ B-Class (W245) B 180 CDI (245.207), MERCEDES-BENZ B-Class (W245) B 200 CDI (245.208), MERCEDES-BENZ B-Class (W245) B 170 (245.232), MERCEDES-BENZ B-Class (W245) B 200 TURBO (245.234), MERCEDES-BENZ B-Class (W245) B 150 (245.231), MERCEDES-BENZ A-Class (W169) A 200 TURBO (169.034, 169.334), MERCEDES-BENZ B-Class (W245) B 170 NGT (245.233), (+ 5)

The steps may slightly vary depending on the car design.

**REPLACEMENT: SUSPENSION STRUT – MERCEDES W245. TOOLS YOU MIGHT NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #16
- Combination spanner #21
- HEX bit no.H6.
- Drive socket # E12
- Drive socket # 21
- Drive socket # 22
- Wheel impact socket #H12
- Ratchet wrench
- Torque wrench
- Tap wrench
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

**BUY TOOLS**

Replacement: suspension strut – Mercedes W245. Professionals recommend:

- Both shock struts of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the front suspension.
- All work should be done with the engine stopped.

## REPLACEMENT: SUSPENSION STRUT – MERCEDES W245. RECOMMENDED SEQUENCE OF STEPS:

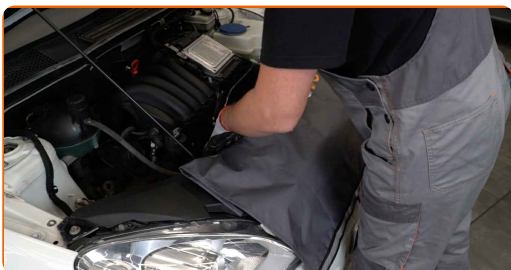
1

Open the bonnet.

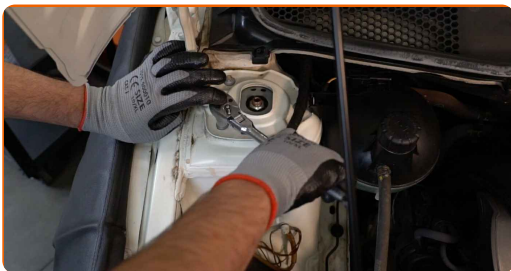


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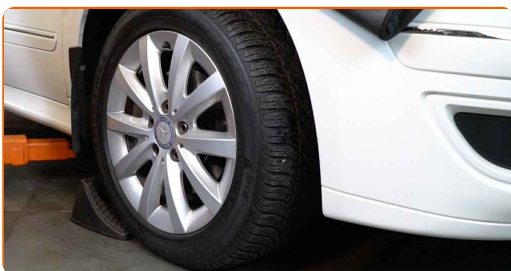
Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



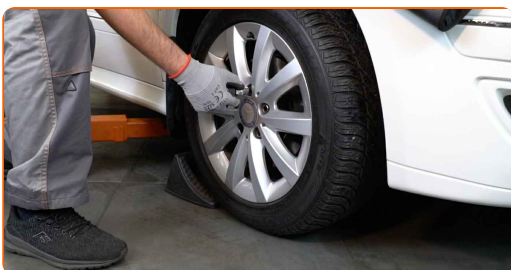
**3** Loosen the upper fastener of the shock strut mount. Use a drive socket #E12. Use a ratchet wrench.



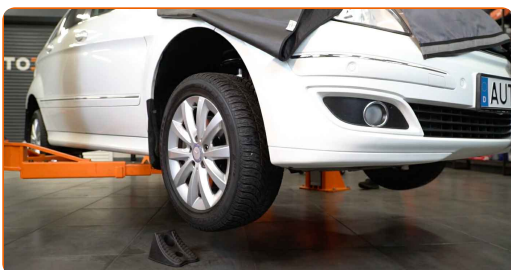
**4** Secure the wheels with chocks.



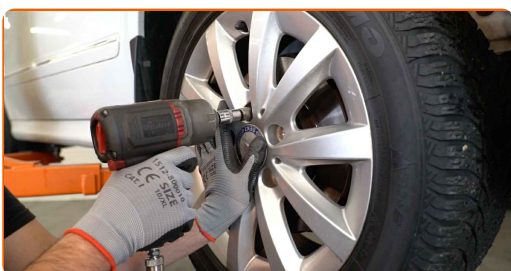
**5** Loosen the wheel mounting bolts. Use wheel impact socket #H12.



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



**7** Unscrew the wheel bolts.

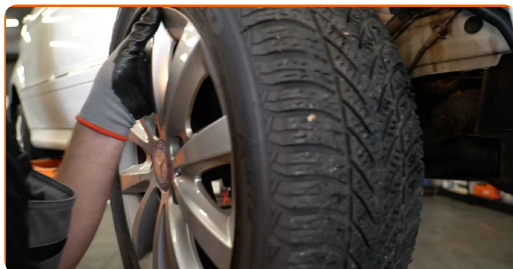


AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Mercedes W245

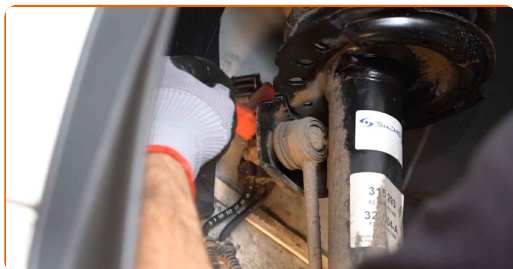
8

Remove the wheel.



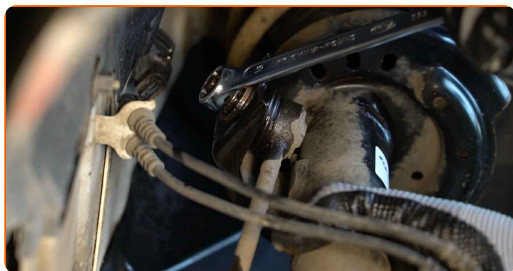
9

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



10

Unscrew the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #16.



11

Remove the stabilizer rod.



12

Disconnect the ABS sensor wiring. Disconnect the brake pad wear sensor plug.

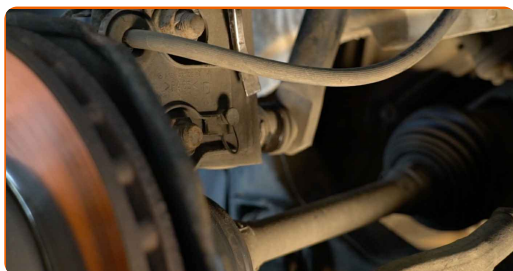


Replacement: suspension strut – Mercedes W245. Tip from AUTODOC:

- Some cars are not equipped with the brake pad wear sensor.

13

Disconnect the brake hose mounting bracket. Use a crowbar.



14

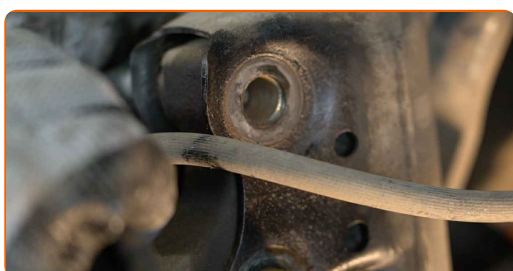
Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



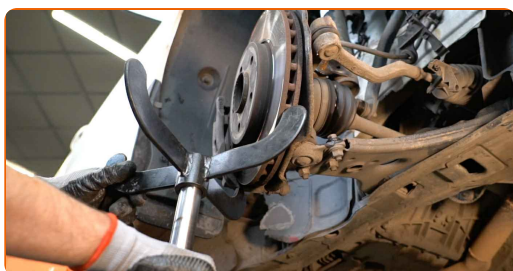
- 15** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a tap wrench.



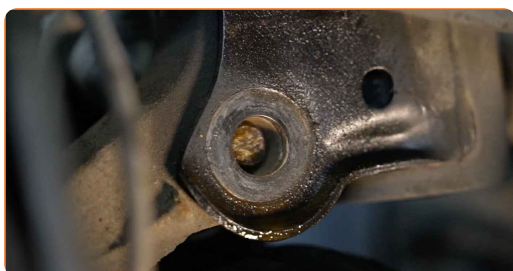
- 16** Remove the fastening bolt.



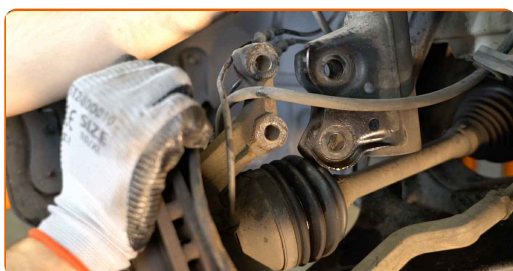
- 17** Prop up the steering knuckle. Use a hydraulic transmission jack.



- 18** Remove the fastening bolt.



- 19** Disconnect the steering knuckle from the shock absorber strut.





**20** Unscrew the top fastening of the shock strut mount.

**Replacement: suspension strut – Mercedes W245. AUTODOC recommends:**

- To avoid injuries, hold the shock strut when undoing the fastening bolts.

**21** Remove the suspension strut.



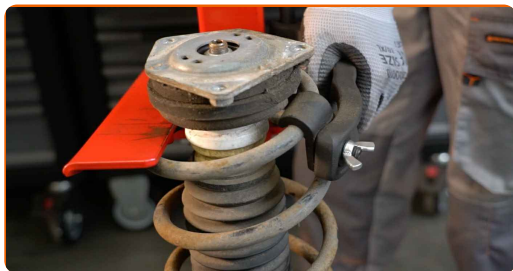
**22** Set the shock absorber strut on the spring compressor tool.



**Replacement: suspension strut – Mercedes W245. Tip:**

- 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.

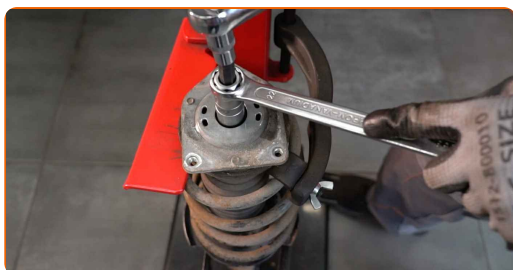
**23** Compress the spring.



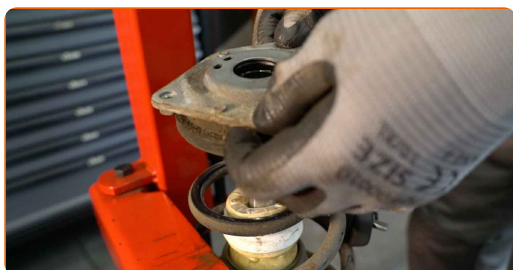
**24** Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



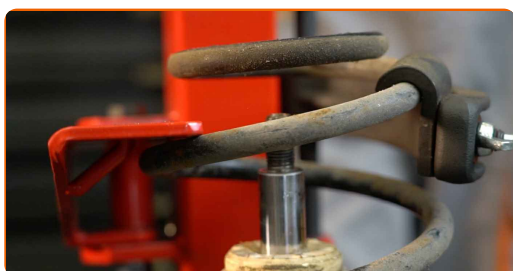
**25** Remove the strut piston rod nut. Use HEX No.H6. Use a drive socket #21. Use a ratchet wrench.



**26** Remove the top strut mount.

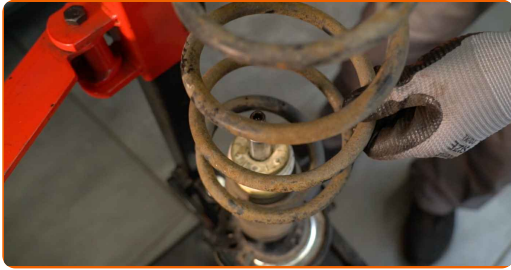


**27** Release the coil spring.



**28**

Remove the spring.



**29**

Remove the shock absorber dust cap and the bump stop.



**AUTODOC recommends:**

- Replacement: suspension strut – Mercedes W245. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

**30**

Remove the old shock absorber from the hydraulic coil spring compressor.



**Replacement: suspension strut – Mercedes W245. AUTODOC experts recommend:**

- Before installing a new shock absorber you should pump it manually 3-5 times.

**31**

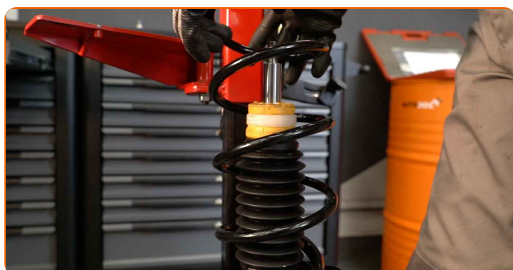
Install the new shock absorber on the hydraulic coil spring compressor.

**32**

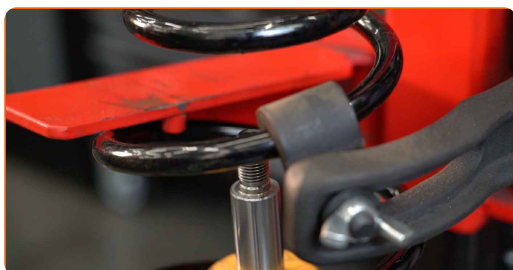
Install the dust sleeve and the bump stop on the new shock absorber.

**33**

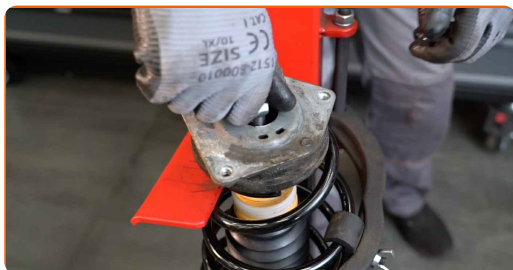
Install the spring on the shock absorber.

**34**

Compress the spring.

**35**

Install the upper strut mount and the strut mount bearing.



- 36 Tighten the shock strut piston rod nut. Use a drive socket #22. Use HEX No.H6. Use a torque wrench. Tighten it to 60 Nm torque.

Replacement: suspension strut – Mercedes W245. Tip from AUTODOC experts:

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

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



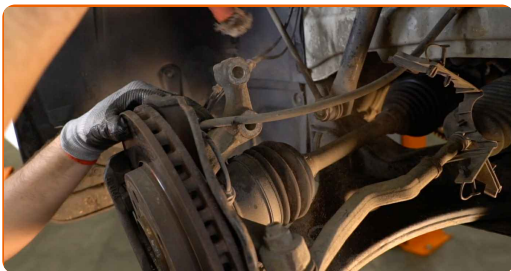
- 38 Decompress the spring.



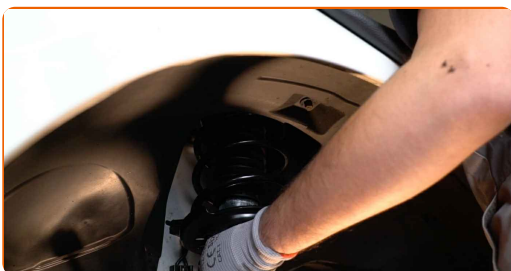
- 39 Remove the assembled shock strut.



**40** Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



**41** Install the shock strut into the wheel arch.



**42** Screw the top fastening of the shock strut mount. Do not tighten it.

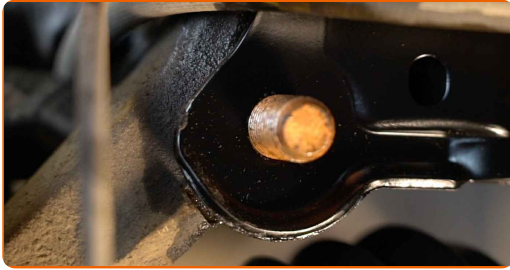
**AUTODOC recommends:**

- Important! Hold the suspension strut while screwing in the fastening bolts.  
Mercedes W245

**43** Fix the shock absorber strut on the steering knuckle.



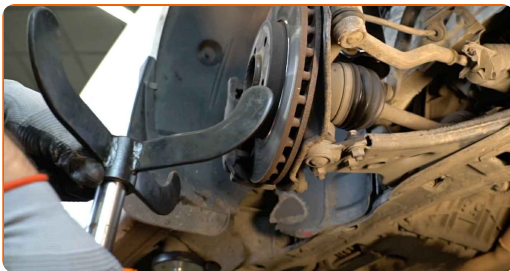
**44** Install the fastening bolts.



**45** Screw in the fastener that connects the shock strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a ratchet wrench.



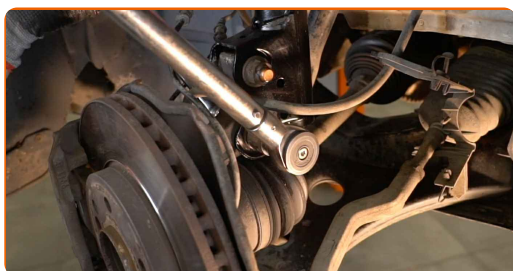
**46** Remove the support from under the steering knuckle.



**AUTODOC recommends:**

- Replacement: suspension strut – Mercedes W245. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

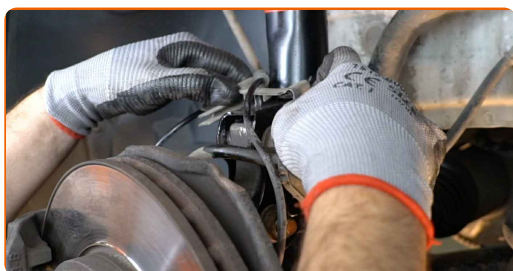
- 47 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a torque wrench. Tighten it to 120 Nm torque.+90°



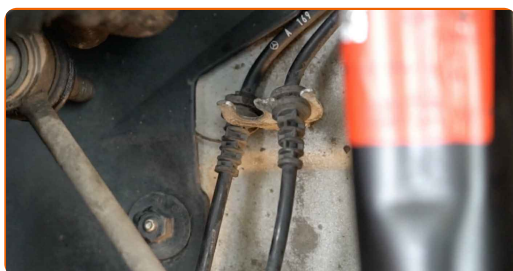
**AUTODOC recommends:**

- Important! Be sure to use new fasteners.

- 48 Secure the brake hose fastening bracket.



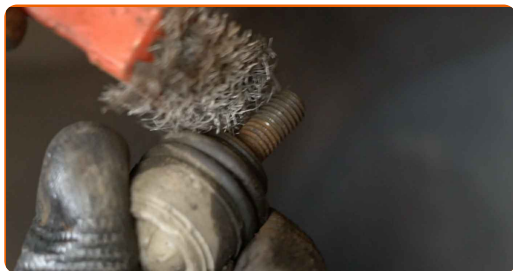
- 49 Connect the ABS sensor wiring.



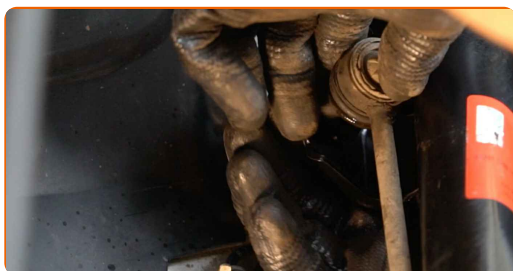
- 50 Connect the brake pad wear sensor plug.



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



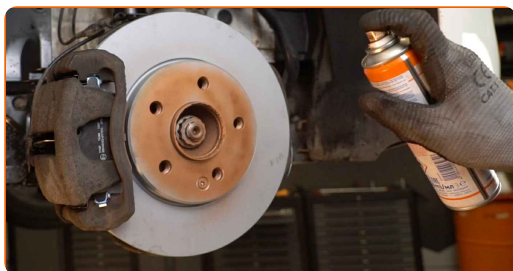
**52** Install the transverse stabilizer link.



**53** Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #16. Use a torque wrench. Tighten it to 60 Nm torque.



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



55

Clean the brake disk surface. Use a brake cleaner.



Replacement: suspension strut – Mercedes W245. AUTODOC recommends:

- After applying the spray, wait a few minutes.

56

Treat the shock strut fasteners. Use copper grease.

57

Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Mercedes W245

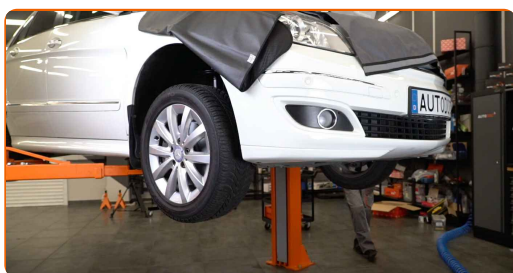
58

Screw in the wheel bolts. Use wheel impact socket #H12.



59

Lower the car and working in a cross order, tighten the wheel bolts.



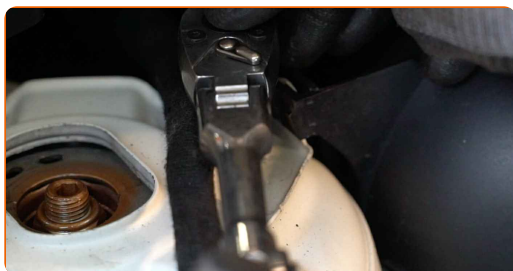
60

Use wheel impact socket #H12. Use a torque wrench. Tighten it to 130 Nm torque.



61

Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #E12. Use a torque wrench. Tighten it to 20 Nm torque.+45°



**AUTODOC recommends:**

- Important! Be sure to use new fasteners.

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

**63** Remove the fender protection cover.



**64** Close the hood.



**65** Remove the jacks and chocks.



**WELL DONE!** 

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