



How to change front
wheel bearing on
Mercedes W210 –
replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:

MERCEDES-BENZ Saloon (W124) 260 E 2.6 (124.026), MERCEDES-BENZ Saloon (W124) 250 D 2.5 (124.125), MERCEDES-BENZ E-Class Saloon (W124) E 250 D (124.126, 124.129), MERCEDES-BENZ Saloon (W124) 250 2.5 Turbo diesel (124.128), MERCEDES-BENZ E-Class Saloon (W124) E 300 D (124.131), MERCEDES-BENZ E-Class Saloon (W124) E 280 (124.029), MERCEDES-BENZ E-Class Saloon (W124) E 420 (124.034), MERCEDES-BENZ E-Class Saloon (W124) E 500 (124.036), MERCEDES-BENZ Saloon (W124) 500 E 5.0 (124.036), MERCEDES-BENZ W124 Estate (S124) 230 TE 2.3 KAT (124.083), MERCEDES-BENZ W124 Estate (S124) 230 TE 2.3 (124.083), MERCEDES-BENZ W124 Estate (S124) 250 D 2.5 (124.185), MERCEDES-BENZ E-Class T-modell (S124) E 300 TD (124.191), MERCEDES-BENZ W124 Estate (S124) 260 TE 2.6 FGST., MERCEDES-BENZ W124 Estate (S124) 260 TE FGST. 2.6, (+ 132)

The steps may slightly vary depending on the car design.

REPLACEMENT: WHEEL BEARING – MERCEDES W210.
TOOLS YOU NEED:



- Wire brush
- Nylon cleaning brush
- WD-40 spray
- All-purpose cleaning spray
- Bearing grease
- Brake cleaner
- Ceramic grease
- Torque wrench
- Combination spanner #32
- Drive socket # 18
- HEX bit no.H5
- Torx bit T40
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Bush and bearing driver set
- Universal puller
- Crow bar
- Wheel chock

BUY TOOLS

Replacement: wheel bearing – Mercedes W210. AUTODOC recommends:

- Do not re-use the bearing assembly of your Mercedes W210 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- All work should be done with the engine stopped.

**REPLACEMENT: WHEEL BEARING – MERCEDES W210.
RECOMMENDED SEQUENCE OF STEPS:**

1 Open the bonnet.

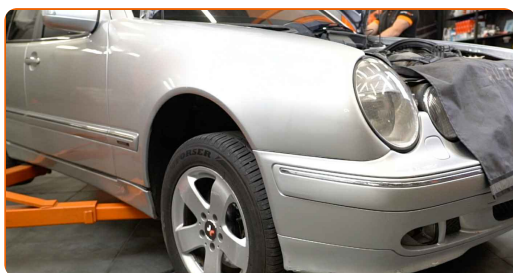
2 Unscrew the brake fluid reservoir cap.

3 Secure the wheels with chocks.

4 Loosen the wheel bolts. Use wheel impact socket #17. Use a tap wrench.



5 Raise the car.



Replacement: wheel bearing – Mercedes W210. AUTODOC experts recommend:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

6

Unscrew the wheel bolts.



AUTODOC recommends:

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

7

Remove the wheel.



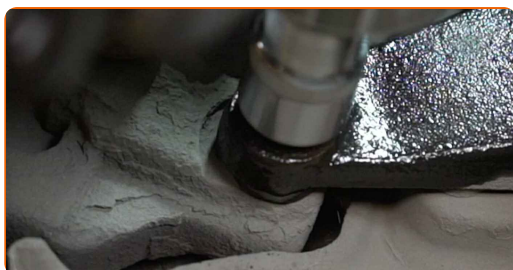
8 Spread the brake pads. Use a crowbar.



9 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.

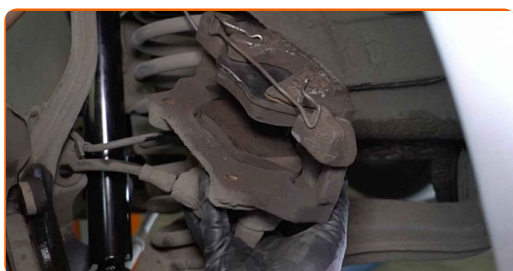


10 Unscrew the brake caliper bracket fasteners. Use a drive socket #18. Use a ratchet wrench.



11 Remove the fastening bolts.

12 Remove the brake caliper together with its bracket.

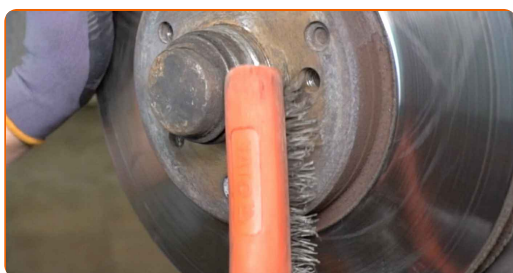


Replacement: wheel bearing – Mercedes W210. AUTODOC recommends:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.

13

Clean the brake disc fastener. Use a wire brush. Use WD-40 spray.

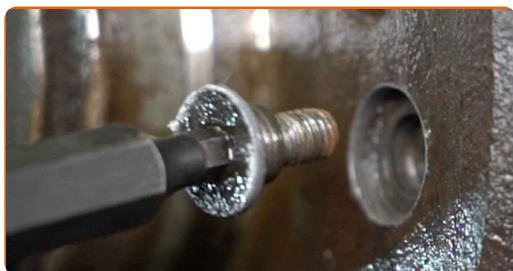


14

Unscrew the brake disc fasteners. Use HEX No.H5. Use a ratchet wrench.



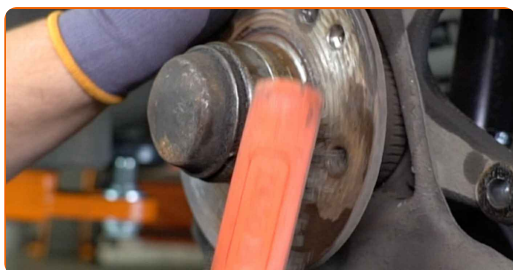
15 Remove the fastening bolt.



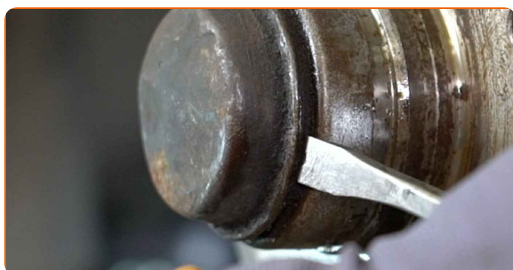
16 Remove the brake disc.



17 Clean the hub bearing protection cap. Use a wire brush. Use WD-40 spray.



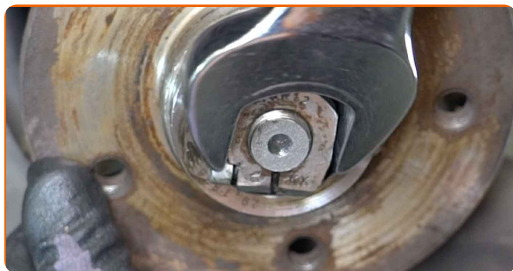
18 Remove the hub bearing cap. Use a crowbar.



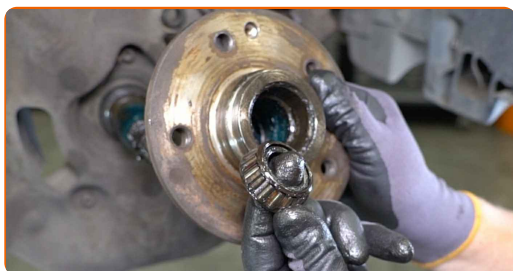
19 Loosen the wheel hub fastening nut screw. Use Torx T40. Use a ratchet wrench.



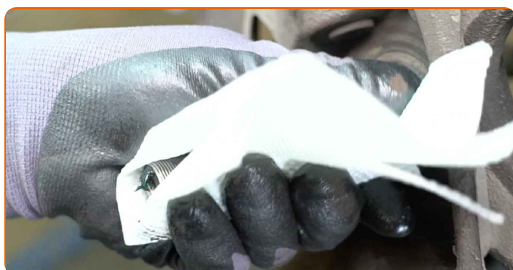
20 Unscrew the hub nut. Use a combination spanner #32.



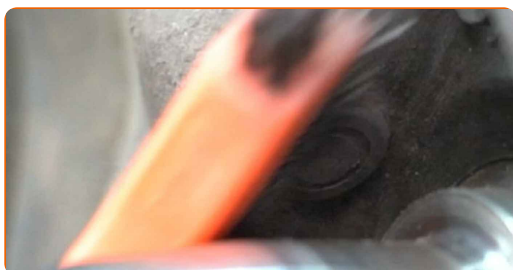
21 Remove the wheel hub together with the bearing.



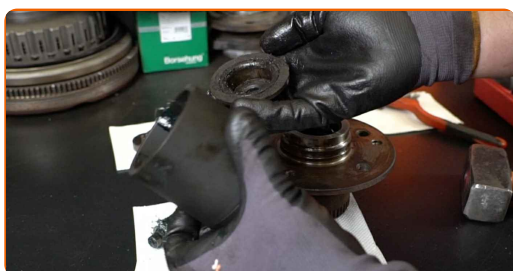
22 Clean the wheel stub axle. Use all-purpose cleaning spray.



23 Clean the ABS sensor. Use a nylon cleaning brush. Use all-purpose cleaning spray.



24 Remove elements of the bearings from the wheel hub. Use a bush and bearing driver set.



25 Dismantle the outer rings of the wheel bearings. Use a bush and bearing driver set. Use a universal puller.



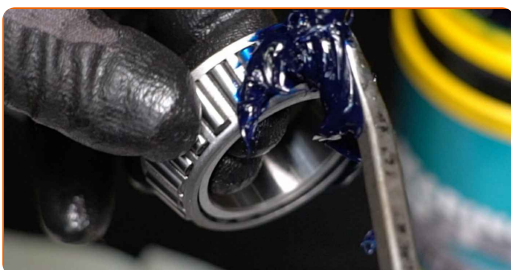
26 Clean the mounting seats of the wheel bearings. Use all-purpose cleaning spray.



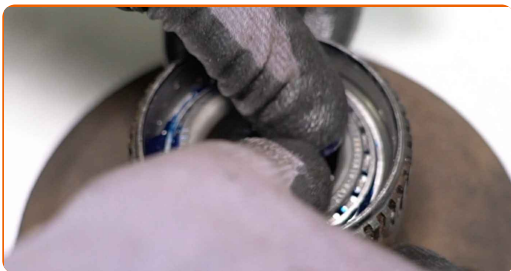
27 Install the outer rings of the new wheel bearings. Use a bush and bearing driver set.



28 Treat the wheel bearings. Use bearing grease.



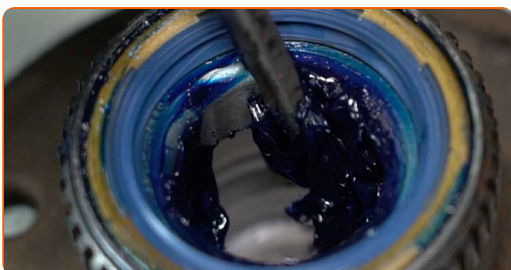
29 Reinstall the elements of the bearings in the wheel hub.



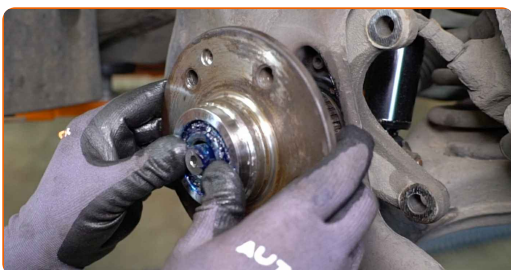
30 Install the wheel bearing oil seal. Use a bush and bearing driver set.



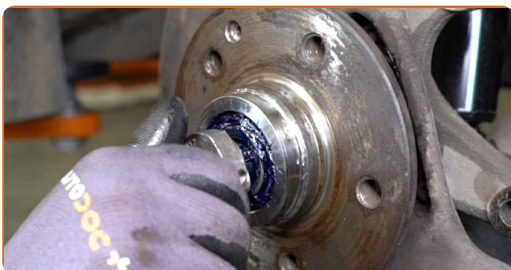
31 Treat the stub axle. Use bearing grease.



32 Reinstall the hub together with the new bearings.

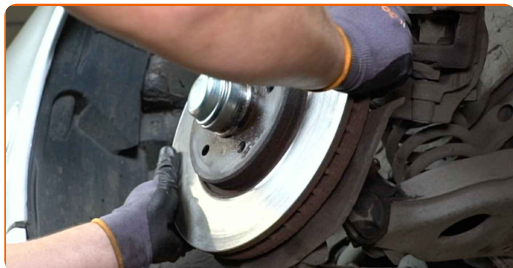


33 Screw on the hub nut.

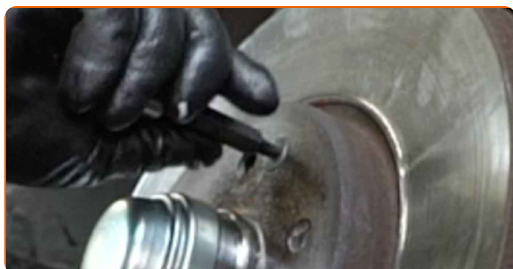


34 Treat the hub where it contacts the brake disk. Use ceramic grease.

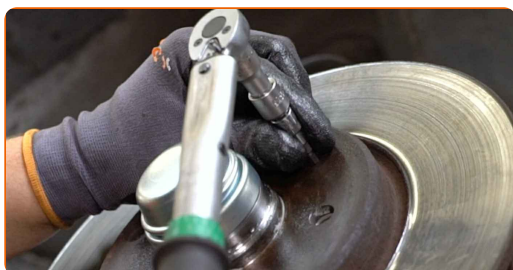
35 Install the brake disc.



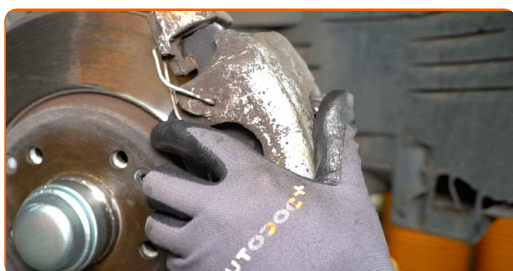
36 Install the fastening bolt.



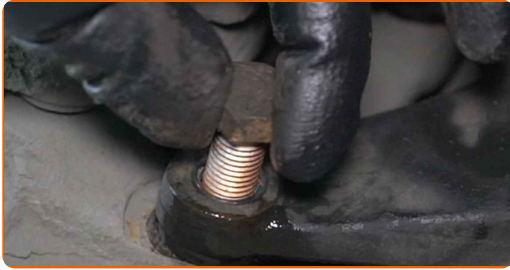
37 Tighten the brake disc fasteners. Use HEX No.H5. Use a torque wrench. Tighten it to 10 Nm torque.



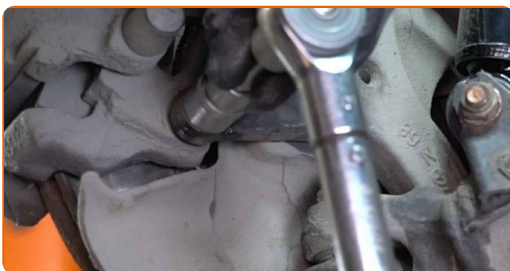
38 Install the brake caliper together with its bracket.



39 Install the fastening bolts.



40 Tighten the brake caliper bracket fasteners. Use a drive socket #18. Use a torque wrench. Tighten it to 115 Nm torque.



41 Install the wheel.



AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. Mercedes W210

42 Screw in the wheel bolts. Use wheel impact socket #17. Use a ratchet wrench.



43

Adjust the axial clearance by tightening the adjusting nut. Use a combination spanner #32.



AUTODOC recommends:

- See your car's repair manual for exact adjustment instructions.

44

Spin the wheel to distribute the new grease evenly on the wheel bearings.



45

Unscrew the wheel bolts.



Replacement: wheel bearing – Mercedes W210. Tip from AUTODOC:

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

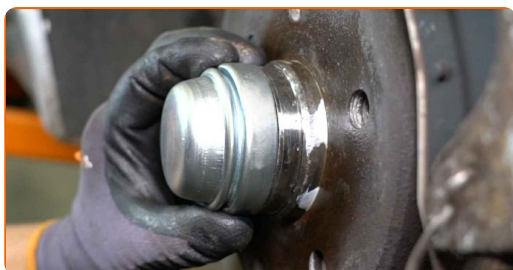
46 Remove the wheel.



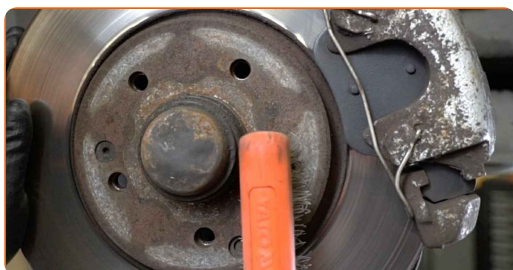
47 Tighten the screw of the wheel hub fastening nut. Use Torx T40. Use a torque wrench. Tighten it to 11 Nm torque.



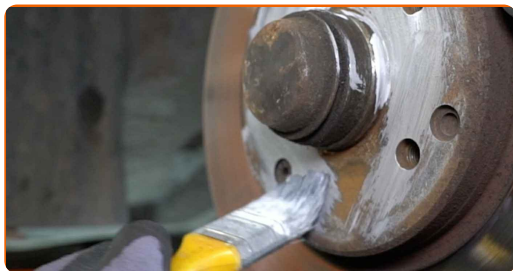
48 Install the hub bearing cap. Use a bush and bearing driver set.



49 Clean the wheel rim mounting seat. Use a wire brush.



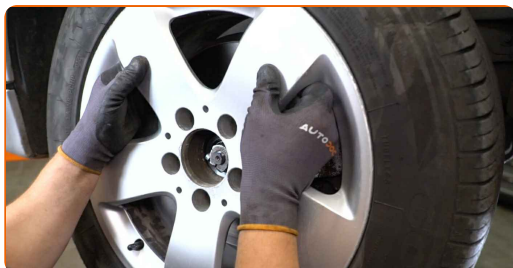
50 Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



51 Clean the brake disk surface. Use a brake cleaner.



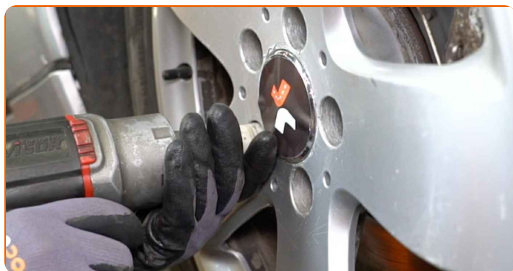
52 Install the wheel.



Replacement: wheel bearing – Mercedes W210. Tip:

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

53 Screw in the wheel bolts. Use wheel impact socket #17. Use a ratchet wrench.



- 54 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 110 Nm torque.



- 55 Remove the jacks and chocks.



- 56 Tighten the brake fluid reservoir cap.

- 57 Close the bonnet.

WELL DONE! 

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