



How to change front ball
joint on **Mercedes W210**
– replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:

MERCEDES-BENZ C-Class Saloon (W202) C 200 D (202.120), MERCEDES-BENZ C-Class Saloon (W202) C 220 D (202.121), MERCEDES-BENZ C-Class Saloon (W202) C 180 (202.018), MERCEDES-BENZ C-Class Saloon (W202) C 280 (202.028), MERCEDES-BENZ C-Class Saloon (W202) C 200 (202.020), MERCEDES-BENZ C-Class Saloon (W202) C 36 AMG (202.028), MERCEDES-BENZ E-Class Saloon (W210) E 220 D (210.004), MERCEDES-BENZ E-Class Saloon (W210) E 250 D (210.010), MERCEDES-BENZ E-Class Saloon (W210) E 200 (210.035), MERCEDES-BENZ E-Class Saloon (W210) E 300 D (210.020), MERCEDES-BENZ E-Class Saloon (W210) E 230 (210.037), MERCEDES-BENZ E-Class Saloon (W210) E 320 (210.055), MERCEDES-BENZ C-Class Saloon (W202) C 230 Kompressor (202.024), MERCEDES-BENZ C-Class Saloon (W202) C 250 Turbo-D (202.128), MERCEDES-BENZ E-Class Saloon (W210) E 290 Turbo-D (210.017), (+ 110)

The steps may slightly vary depending on the car design.

**REPLACEMENT: BALL JOINT – MERCEDES W210.
TOOLS YOU MIGHT NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Ceramic grease
- Torque wrench
- Combination spanner #22
- Drive socket # 21
- Drive socket # 22
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Ball joint puller
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

Replacement: ball joint – Mercedes W210. Tip from AUTODOC:

- The replacement procedure is identical for the left and right ball joints.
- All work should be done with the engine stopped.

REPLACEMENT: BALL JOINT – MERCEDES W210. RECOMMENDED SEQUENCE OF STEPS:

1 Secure the wheels with chocks.

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



3 Raise the car.



AUTODOC recommends:

- 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.

4

Unscrew the wheel bolts.

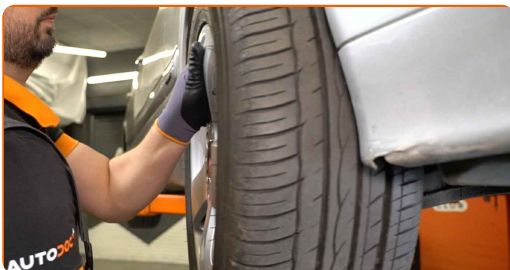


Replacement: ball joint – Mercedes W210. Tip:

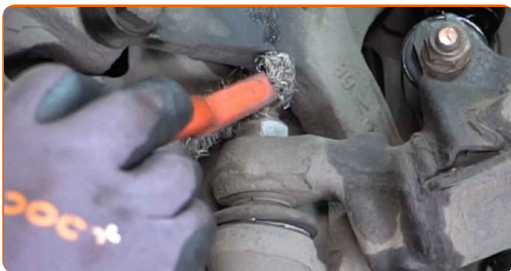
- To avoid injury, hold up the wheel when unscrewing the bolts.

5

Remove the wheel.



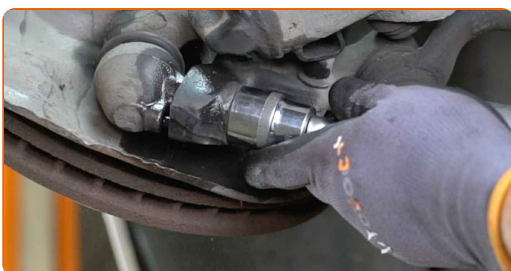
6 Clean the ball joint fasteners. Use a wire brush. Use WD-40 spray.



7 Unscrew the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #22.



8 Unscrew the fastener connecting the ball joint to the suspension control arm. Use a drive socket #22. Use a ratchet wrench.



9 Disconnect the ball joint from the control arm. Use a ball joint puller.



10 Disconnect the ball joint from the steering knuckle. Use a ball joint puller.



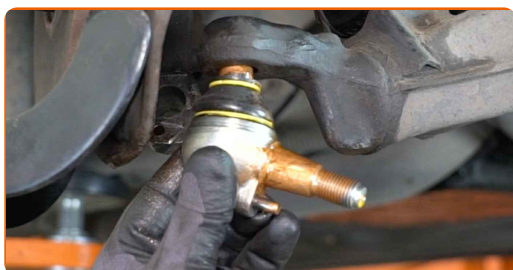
11 Remove the ball joint.



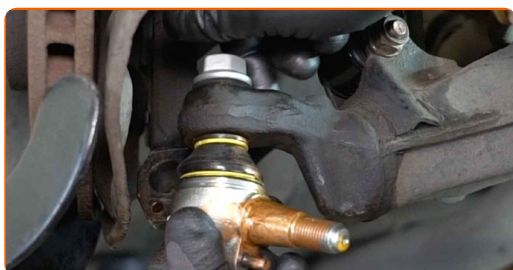
12 Support the steering knuckle. Use a hydraulic transmission jack.

13 Clean the ball joint mounting seat. Use a wire brush.

14 Install a new ball joint.

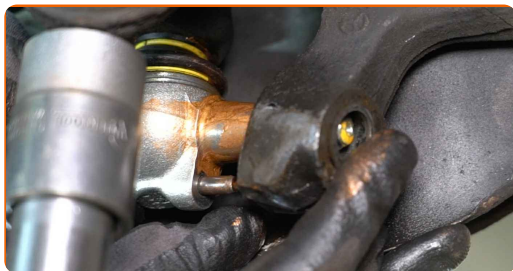


15 Attach the ball joint to the control arm.



16

Connect the ball joint to the steering knuckle.



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Remove the support from under the steering knuckle.

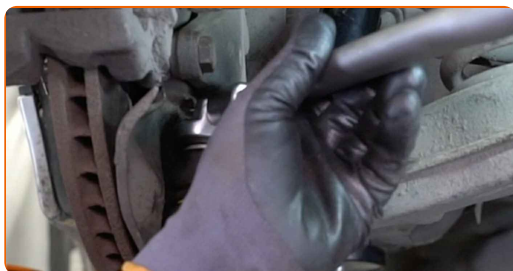


AUTODOC recommends:

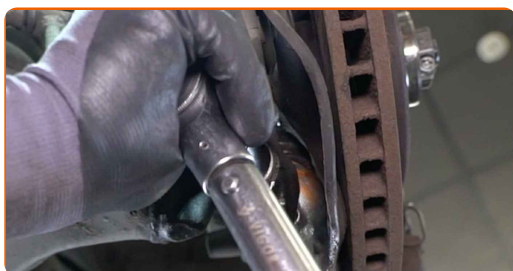
- Replacement: ball joint – Mercedes W210. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

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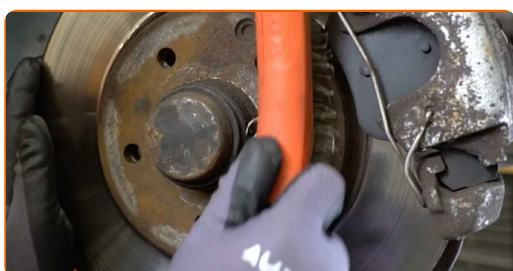
Tighten the ball joint fastener. Use a combination spanner #22. Use a torque wrench. Tighten it to 105 Nm torque.



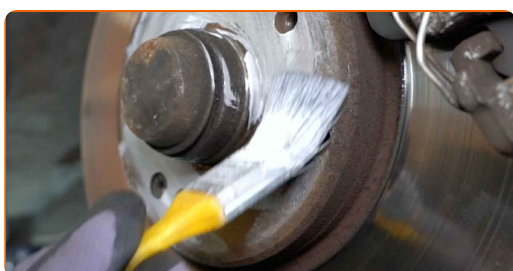
- 19** Tighten the fastener connecting the ball joint to the steering knuckle. Use a drive socket #21. Use a torque wrench. Tighten it to 105 Nm torque.



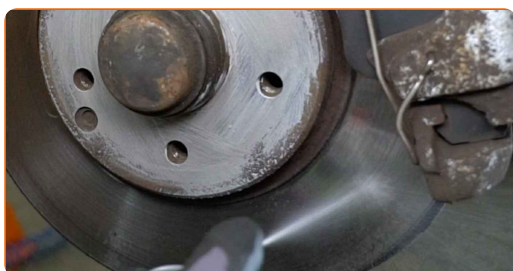
- 20** Clean the wheel rim mounting seat. Use a wire brush.



- 21** Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



- 22** Clean the brake disk surface. Use a brake cleaner.



- 23** Install the wheel.

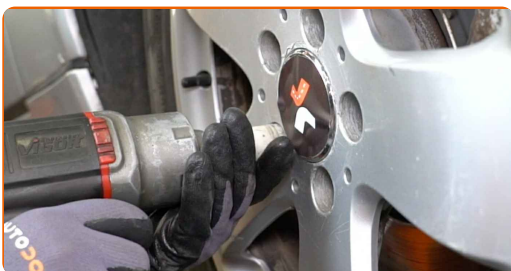


Replacement: ball joint – Mercedes W210. Tip from AUTODOC experts:

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

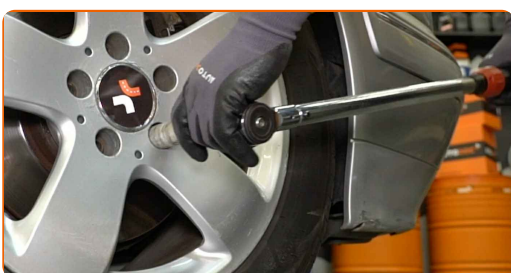
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Screw in the wheel bolts. Use wheel impact socket #17. Use a ratchet wrench.



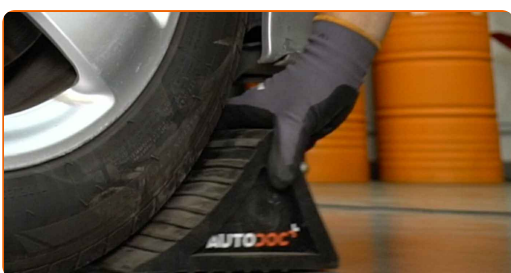
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Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



26

Remove the jacks and chocks.



WELL DONE! 

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