



How to change front ball  
joint on **MERCEDES-  
BENZ C-Class T-modell  
(S202)** – replacement  
guide

### SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

### Important!

This replacement procedure can be used for:

MERCEDES-BENZ C-Class T-modell (S202) C 180 T (202.078), MERCEDES-BENZ C-Class T-modell (S202) C 200 T (202.080), MERCEDES-BENZ C-Class T-modell (S202) C 220 T D (202.182), MERCEDES-BENZ C-Class T-modell (S202) C 250 T Turbo-D (202.188), MERCEDES-BENZ C-Class T-modell (S202) C 230 T (202.083), MERCEDES-BENZ C-Class T-modell (S202) C 200 T D (202.180), MERCEDES-BENZ C-Class T-modell (S202) C 230 T Kompressor (202.085), MERCEDES-BENZ C-Class T-modell (S202) C 240 T (202.086), MERCEDES-BENZ C-Class T-modell (S202) C 280 T (202.089), MERCEDES-BENZ C-Class T-modell (S202) C 220 T CDI (202.193), MERCEDES-BENZ C-Class T-modell (S202) C 200 T Kompressor (202.082), MERCEDES-BENZ C-Class T-modell (S202) C 200 T CDI (202.194), MERCEDES-BENZ C-Class T-modell (S202) C 43 AMG (202.093), MERCEDES-BENZ C-Class T-modell (S202) C 180 T (202.081), MERCEDES-BENZ C-Class T-modell (S202) C 200 T Kompressor (202.087), (+ 1)

The steps may slightly vary depending on the car design.

Please note that this tutorial was created based on the replacement procedure for this car part on a car with a similar design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ E-Class Saloon (W210) E 270 CDI (210.016)

**REPLACEMENT: BALL JOINT – MERCEDES-BENZ C-CLASS T-MODELL (S202). 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-BENZ C-Class T-modell (S202). 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-BENZ C-CLASS T-MODELL (S202). 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.

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Unscrew the wheel bolts.

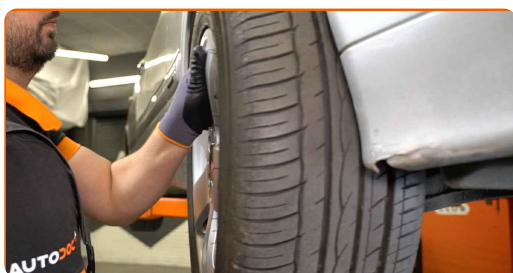


Replacement: ball joint – MERCEDES-BENZ C-Class T-modell (S202). Tip:

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

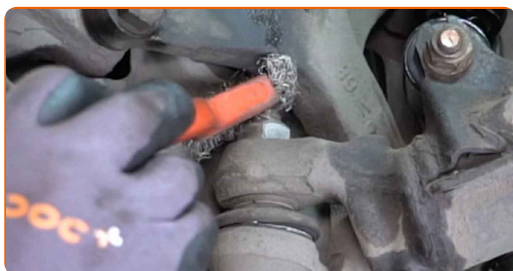
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Remove the wheel.

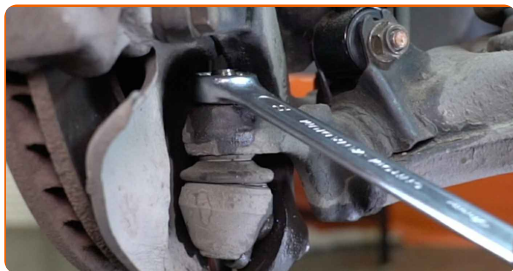


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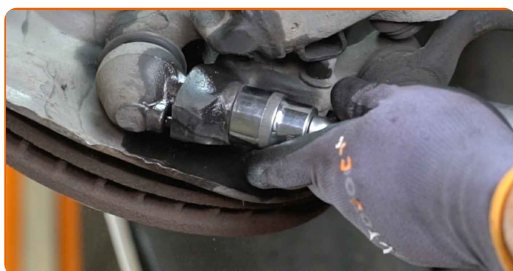
Clean the ball joint fasteners. Use a wire brush. Use WD-40 spray.



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



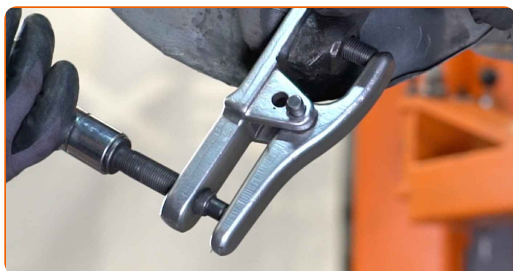
**8** Unscrew the fastener connecting the ball joint to the suspension control arm. Use a drive socket #22. Use a ratchet wrench.



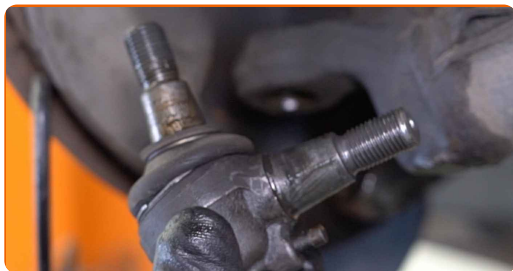
**9** Disconnect the ball joint from the control arm. Use a ball joint puller.



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



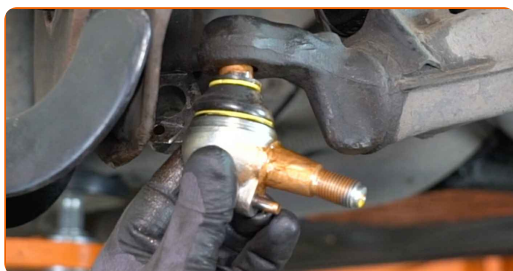
**11** Remove the ball joint.



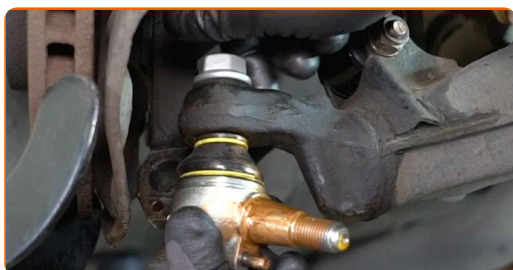
**12** Support the steering knuckle. Use a hydraulic transmission jack.

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

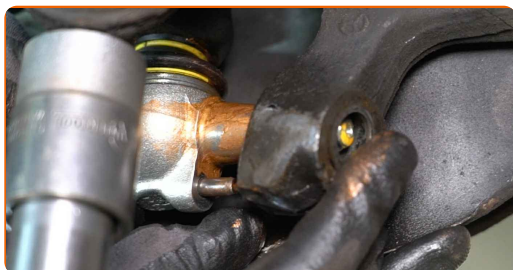
**14** Install a new ball joint.



**15** Attach the ball joint to the control arm.

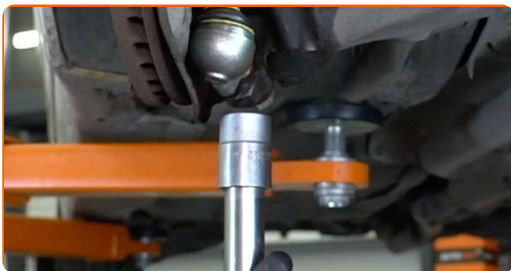


**16** Connect the ball joint to the steering knuckle.





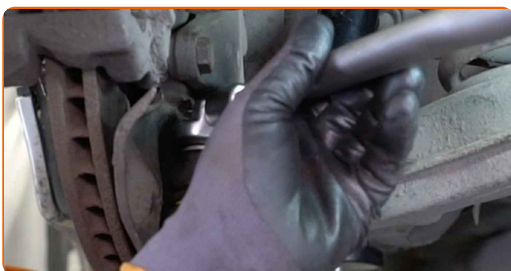
**17** Remove the support from under the steering knuckle.



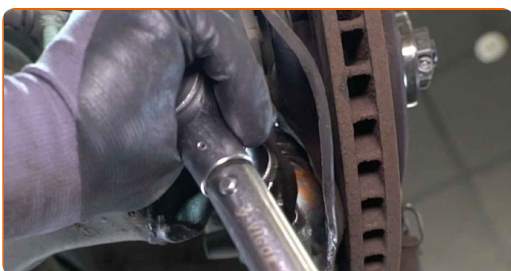
**AUTODOC recommends:**

- Replacement: ball joint – MERCEDES-BENZ C-Class T-modell (S202). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

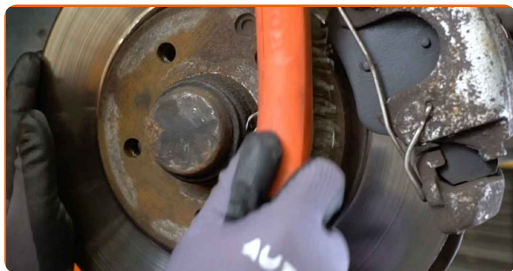
**18** Tighten the ball joint fastener. Use a combination spanner #22. Use a torque wrench. Tighten it to 105 Nm torque.



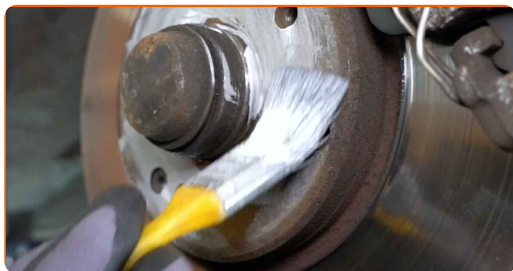
**19** Tighten the fastener connecting the ball joint to the steering knuckle. Use a drive socket #21. Use a torque wrench. Tighten it to 105 Nm torque.



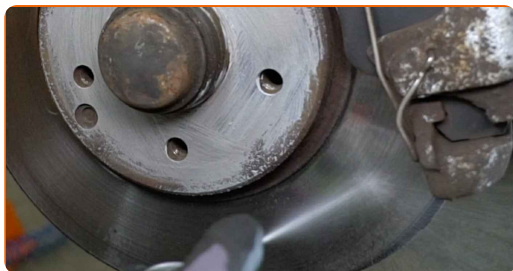
**20** Clean the wheel rim mounting seat. Use a wire brush.



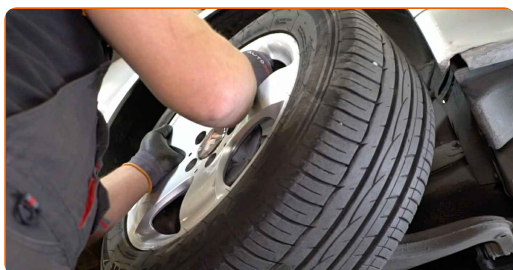
**21** Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



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



**23** Install the wheel.

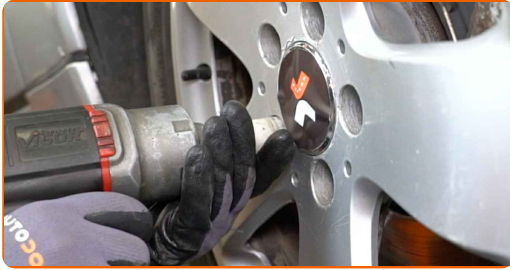


Replacement: ball joint – MERCEDES-BENZ C-Class T-modell (S202). Tip from AUTODOC experts:

- 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.



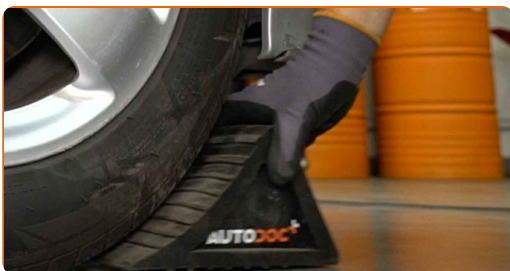
25

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.



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Remove the jacks and chocks.



**WELL DONE!** 

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