



How to change front ball
joint on **MERCEDES-
BENZ E-Class T-modell
(S211)** – replacement
guide

SIMILAR VIDEO TUTORIAL



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

i Important!

This replacement procedure can be used for:

MERCEDES-BENZ E-Class T-modell (S211) E 240 T 4-matic (211.280), MERCEDES-BENZ E-Class T-modell (S211) E 320 T 4-matic (211.282), MERCEDES-BENZ E-Class T-modell (S211) E 500 T 4-matic (211.283), MERCEDES-BENZ E-Class T-modell (S211) E 280 T CDI 4-matic (211.284), MERCEDES-BENZ E-Class T-modell (S211) E 500 T 4-matic (211.290)

The steps may slightly vary depending on the car 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 E-CLASS T-MODELL (S211). 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 E-Class T-modell (S211). 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 E-CLASS T-MODELL (S211). 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.

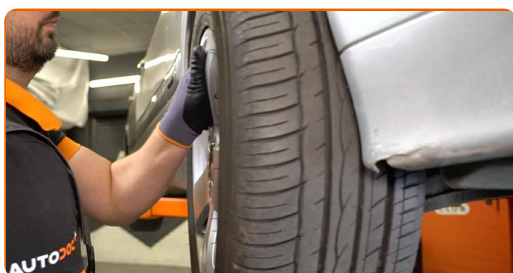


Replacement: ball joint – MERCEDES-BENZ E-Class T-modell (S211). Tip:

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

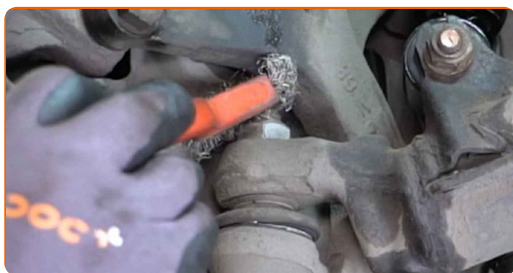
5

Remove the wheel.

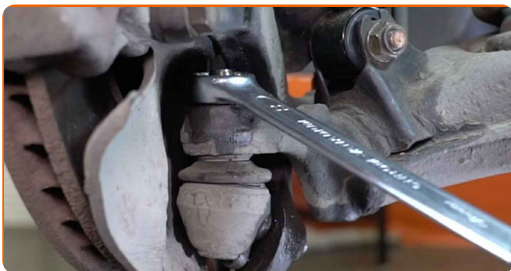


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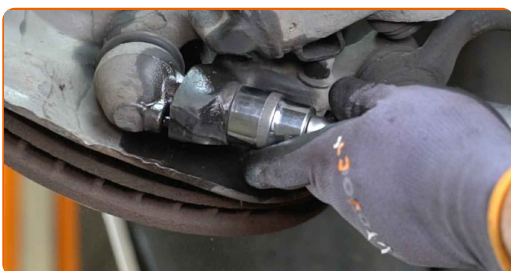
Clean the ball joint fasteners. Use a wire brush. Use WD-40 spray.



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.



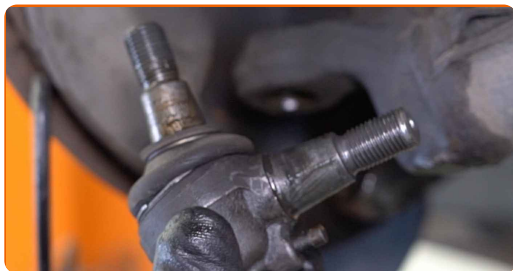
9 Disconnect the ball joint from the control arm. Use a ball joint puller.



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



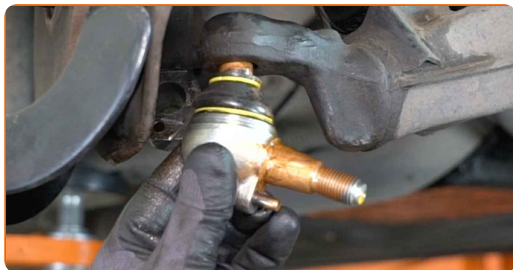
11 Remove the ball joint.



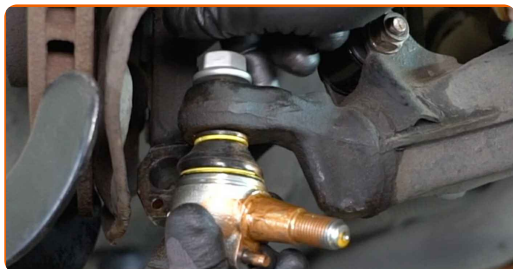
12 Support the steering knuckle. Use a hydraulic transmission jack.

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

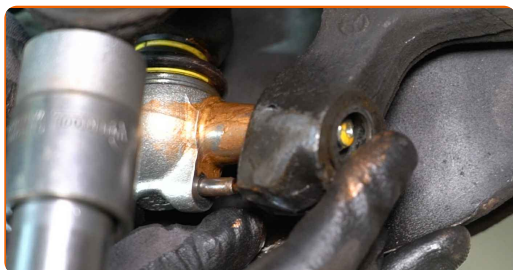
14 Install a new ball joint.



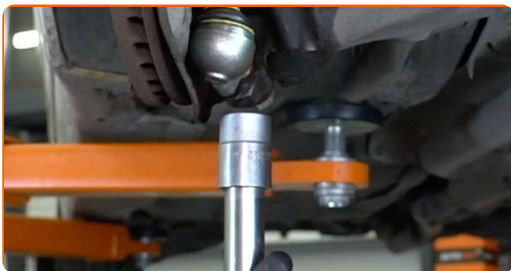
15 Attach the ball joint to the control arm.



16 Connect the ball joint to the steering knuckle.



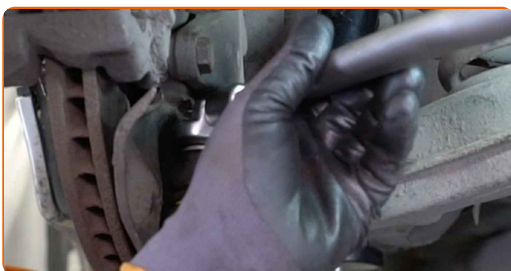
17 Remove the support from under the steering knuckle.



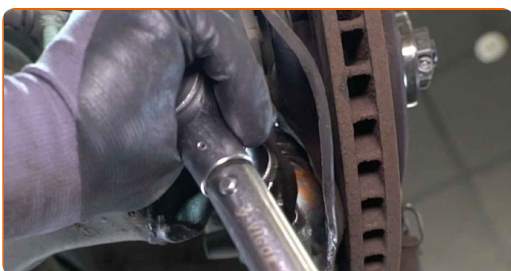
AUTODOC recommends:

- Replacement: ball joint – MERCEDES-BENZ E-Class T-modell (S211). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

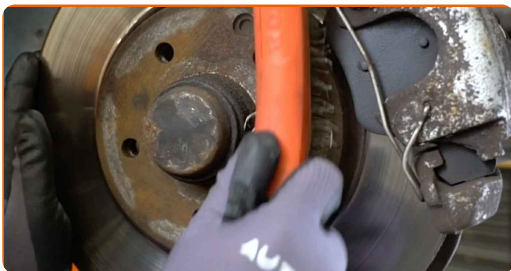
18 Tighten the ball joint fastener. Use a combination spanner #22. Use a torque wrench. Tighten it to 105 Nm torque.



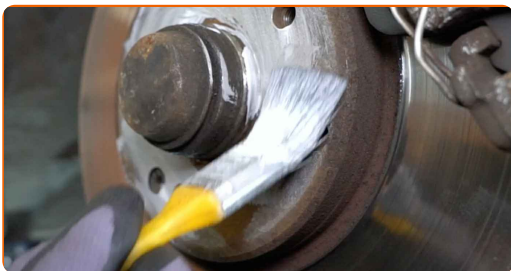
19 Tighten the fastener connecting the ball joint to the steering knuckle. Use a drive socket #21. Use a torque wrench. Tighten it to 105 Nm torque.



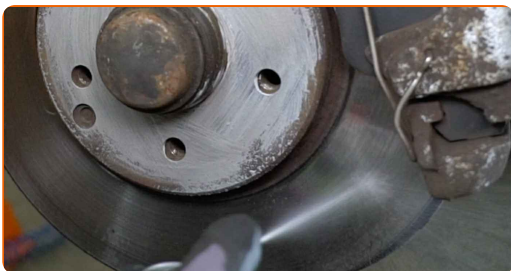
20 Clean the wheel rim mounting seat. Use a wire brush.



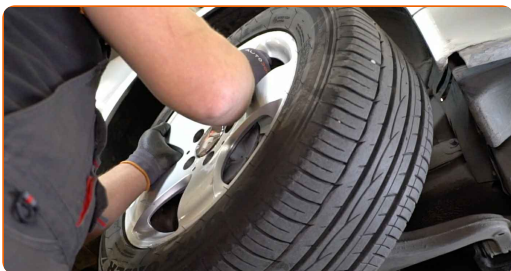
21 Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



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



23 Install the wheel.

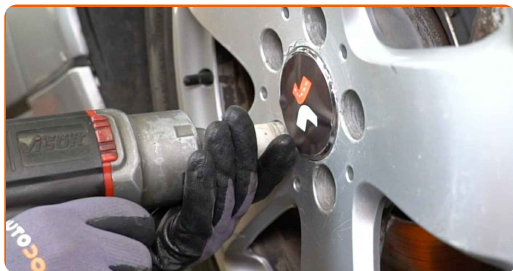


Replacement: ball joint – MERCEDES-BENZ E-Class T-modell (S211). Tip from AUTODOC experts:

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

24

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



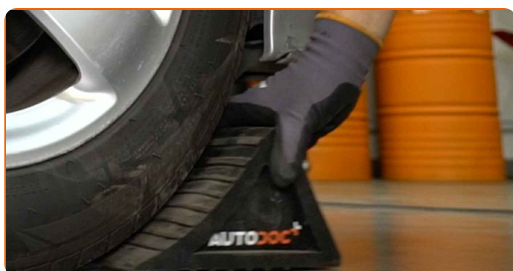
25

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.



26

Remove the jacks and chocks.



WELL DONE! 

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BALL JOINT: A WIDE SELECTION

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