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How to change front ball joint on MERCEDES-BENZ E-Class Saloon (W124) – 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 Saloon (W124) E 250 D (124.126, 124.129), MERCEDES-BENZ E-Class Saloon (W124) E 300 D (124.131), MERCEDES-BENZ E-Class Saloon (W124) E 200 (124.019), MERCEDES-BENZ E-Class Saloon (W124) E 220 (124.022), MERCEDES-BENZ E-Class Saloon (W124) E 280 (124.029), MERCEDES-BENZ E-Class Saloon (W124) E 320 (124.032), MERCEDES-BENZ E-Class Saloon (W124) E 320 (124.032), MERCEDES-BENZ E-Class Saloon (W124) E 420 (124.034), MERCEDES-BENZ E-Class Saloon (W124) E 500 (124.036), MERCEDES-BENZ E-Class Saloon (W124) E 250 Turbo-D (124.128), MERCEDES-BENZ E-Class Saloon (W124) E 300 Turbo-D 4-matic (124.333), MERCEDES-BENZ E-Class Saloon (W124) E 300 Turbo-D (124.133), MERCEDES-BENZ E-Class Saloon (W124) E 300 Turbo-D (124.133), MERCEDES-BENZ E-Class Saloon (W124) E 300 ME

The steps may slightly vary depending on the car design.

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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 190 (W201) 2.0 (201.023)

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## REPLACEMENT: BALL JOINT - MERCEDES-BENZ E-CLASS SALOON (W124). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Ceramic grease
- Torque wrench
- Combination spanner #13
- Combination spanner #19
- Combination spanner #22
- Drive socket # 13
- Drive socket # 19
- Drive socket # 22
- Wheel impact socket #17

- Ratchet wrench
- Tap wrench
- Hammer
- Flat chisel
- Crow bar
- Flat screwdriver
- Ball joint puller set
- Water pump pliers
- Strut spring compressor
- Hydraulic transmission jack
- Wheel chock

**Buy tools** 

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## Replacement: ball joint – MERCEDES-BENZ E-Class Saloon (W124). 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 SALOON (W124). USE THE FOLLOWING PROCEDURE:

- Secure the wheels with chocks.
- Loosen the wheel bolts. Use wheel impact socket #17. Use a tap wrench.



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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4 Unscrew the wheel bolts.



## Replacement: ball joint – MERCEDES-BENZ E-Class Saloon (W124). Tip:

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

Remove the wheel.



6 Support the control arm. Use a hydraulic transmission jack.



Install the coil spring compressor on the coil spring.



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### **AUTODOC** recommends:

- Use adapters and jaws of the appropriate size.
- The sping coils should be securely fixed with the coil spring compressor.
- Use high quality coil spring compressors.

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Compress the spring.



Replacement: ball joint – MERCEDES-BENZ E-Class Saloon (W124). AUTODOC recommends:

- Be careful. The compressed spring is powerful and can cause injury if it comes loose.
- 9

Clean the fasteners of the stabilizer bush brackets. Use a wire brush. Use WD-40 spray.



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Unscrew the fasteners of the stabilizer bush brackets. Use a combination spanner #13. Use a drive socket #13. Use a ratchet wrench.



11 Remove the fastening bolts.

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Remove the stabilizer bush brackets.



Detach the anti-roll bar from the suspension arms.



Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



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Make marks on the camber bolts.



Unscrew the front fastener of the control arm. Use a combination spanner #22. Use a drive socket #22. Use a ratchet wrench.



Unscrew the rear fastener of the control arm. Use a combination spanner #22. Use a drive socket #22. Use a ratchet wrench.



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Unscrew the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



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19 Remove the fastening bolt.



Disconnect the ball joint from the steering knuckle. Use a flat metal-working chisel. Use a hammer. Use a crowbar.



- Remove the support from under the control arm.
- Remove the coil spring together with the coil spring compressor.



Replacement: ball joint – MERCEDES-BENZ E-Class Saloon (W124). AUTODOC experts recommend:

• While the spring is compressed, do not do any operations on it.

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Clean the ball joint. Use all-purpose cleaning spray.



Remove the retaining ring from the ball joint boot. Use a flat screwdriver.



Remove the ball joint boot. Use a flat screwdriver.



Dismantle the ball joint. Use a ball joint puller set.



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Clean the ball joint mounting seat. Use a wire brush. Use all-purpose cleaning spray.



Install a new ball joint. Use a ball joint puller set.



Install the spring together with the compressor.



#### **AUTODOC** recommends:

• Make sure that the coil spring is correctly positioned in its mounting seats.

Connect the ball joint to the steering knuckle.

30



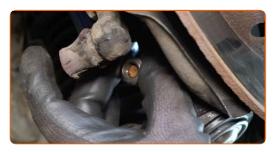
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- Support the control arm. Use a hydraulic transmission jack.
- 32 Install the fastening bolt.



Tighten the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #19. Use a drive socket #19. Use a torque wrench. Tighten it to 75 Nm torque.



Decompress the spring.

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Remove the coil spring compressor.



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For tightening the fasteners correctly, you have to jack up the suspension components to their working position.



- Adjust the position of the camber bolts according to the marks.
- Tighten the front fastener of the arm. Use a combination spanner #22. Use a drive socket #22. Use a torque wrench. Tighten it to 120 Nm torque.



Tighten the rear fastener of the control arm. Use a combination spanner #22. Use a drive socket #22. Use a torque wrench. Tighten it to 120 Nm torque.



Remove the support from under the control arm.



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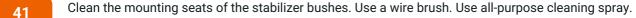






### **AUTODOC** recommends:

 Replacement: ball joint – MERCEDES-BENZ E-Class Saloon (W124). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.





Attach the anti-roll bar to the suspension arms. Use a crowbar.



Install the stabilizer bush brackets. Use water pump pliers.



Install the fastening bolts.

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Tighten the fasteners on the anti-roll bar bush brackets. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.



Clean the wheel rim mounting seat. Use a wire brush. Use all-purpose cleaning spray.



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



48 Install the wheel.



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### **AUTODOC** recommends:

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





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.



Remove the jacks and chocks.





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