



How to change front  
wheel bearing on  
**MERCEDES-BENZ E-  
Class T-modell (S212)** –  
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 E-Class T-modell (S212) E 350 (212.256), MERCEDES-BENZ E-Class T-modell (S212) E 63 AMG (212.274), MERCEDES-BENZ E-Class T-modell (S212) E 350 CDI (212.223), MERCEDES-BENZ E-Class T-modell (S212) E 500 (212.273), MERCEDES-BENZ E-Class T-modell (S212) E 350 (212.259), MERCEDES-BENZ E-Class T-modell (S212) E 300 (212.255), MERCEDES-BENZ E-Class T-modell (S212) E 200 CDI / BlueTEC (212.205, 212.206), MERCEDES-BENZ E-Class T-modell (S212) E 220 CDI / BlueTEC (212.202, 212.201), MERCEDES-BENZ E-Class T-modell (S212) E 250 CDI / BlueTEC (212.203, 212.204), MERCEDES-BENZ E-Class T-modell (S212) E 350 CDI (212.225), MERCEDES-BENZ E-Class T-modell (S212) E 200 CGI (212.248), MERCEDES-BENZ E-Class T-modell (S212) E 250 CGI (212.247), MERCEDES-BENZ E-Class T-modell (S212) E 350 CGI (212.257), MERCEDES-BENZ E-Class T-modell (S212) E 500 (212.272), MERCEDES-BENZ E-Class T-modell (S212) E 63 AMG (212.277), (+ 14)

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 (W211) E 270 CDI (211.016)

**REPLACEMENT: WHEEL BEARING – MERCEDES-BENZ E-CLASS T-MODELL (S212). LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- Nylon cleaning brush
- WD-40 spray
- Brake cleaner
- All-purpose cleaning spray
- Copper grease
- Multipurpose grease
- Torque wrench
- Combination spanner #17
- Combination spanner #32
- HEX bit No.H5
- Drive socket # 13
- Drive socket # 21
- Torx bit T30
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Impact screwdriver
- Bush and bearing driver set
- Brake caliper wind back tool
- Hammer
- Rubber mallet
- Round-nose pliers
- Crow bar
- 3-Arm Gear Puller
- Wheel chock

**Buy tools**

Replacement: wheel bearing – MERCEDES-BENZ E-Class T-modell (S212). Tip from AUTODOC experts:

- Do not re-use the bearing assembly of your MERCEDES-BENZ E-Class T-modell (S212) car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – MERCEDES-BENZ E-Class T-modell (S212) – should be done with the engine switched off.

**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

**1** Open the bonnet.

**2** Connect the service equipment and switch the SBC system to service mode.

Please note!

- Some vehicles may not have the SBC system.

**3** Unscrew the brake fluid reservoir cap.



**4** Secure the wheels with chocks.

**5** Loosen the wheel mounting bolts. Use wheel impact socket #17.



**6** Raise the front of the car and secure on supports.

**7** Unscrew the wheel bolts.



**AUTODOC recommends:**

- Important! Hold the wheel while unscrewing the fastening bolts. MERCEDES-BENZ E-Class T-modell (S212)

**8** Remove the wheel.



**9** Detach the connector of the brake pad wear sensor. Use round-nose pliers.



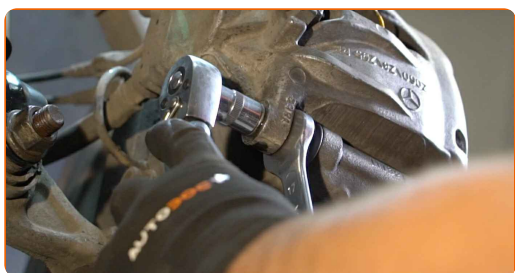
**10** Spread the brake pads. Use a crowbar.



**11** Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.



**12** Unscrew the brake caliper fastening. Use a combination spanner #17. Use a drive socket #13. Use a ratchet wrench.



**13**

Remove the brake caliper.



**Replacement: wheel bearing – MERCEDES-BENZ E-Class T-modell (S212). Tip:**

- 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.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

**14**

Treat the brake caliper piston. Use a nylon cleaning brush. Use a brake cleaner.





AUTODOC recommends:

- Replacement: wheel bearing – MERCEDES-BENZ E-Class T-modell (S212). After applying the spray, wait a few minutes.

15

Install the brake caliper wind back tool.



16

Remove the brake pads.

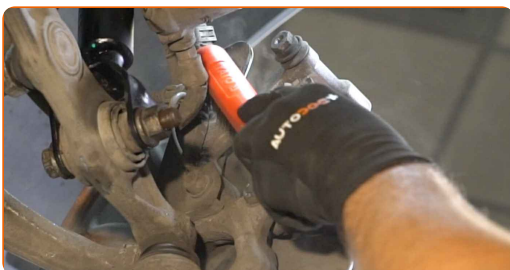


17

Disconnect the brake pads wear sensor.

18

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



19

Unscrew the caliper bracket fastening. Use a drive socket #21. Use a tap wrench. Use a ratchet wrench.



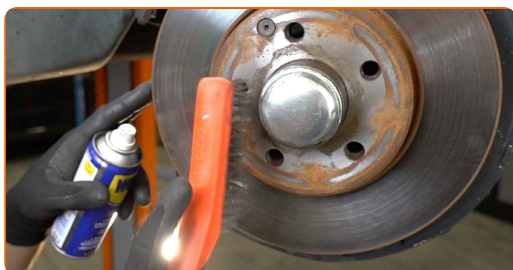
20

Remove the caliper bracket.



21

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



22

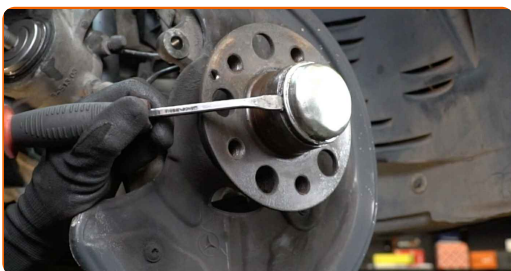
Unscrew the brake disc fastening. Use Torx T30. Use an impact screwdriver.



**23** Remove the brake disc.



**24** Remove the wheel hub nut cap. Use a crowbar. Use a hammer.



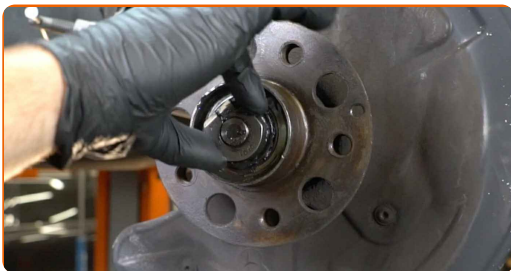
Replacement: wheel bearing – MERCEDES-BENZ E-Class T-modell (S212). Tip from AUTODOC experts:

- In some cars, the wheel hub nut is not protected with a cap.

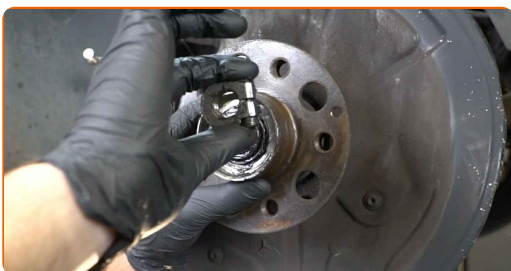
**25** Loosen the wheel hub fastening nut screw. Use HEX No.H5. Use a ratchet wrench.



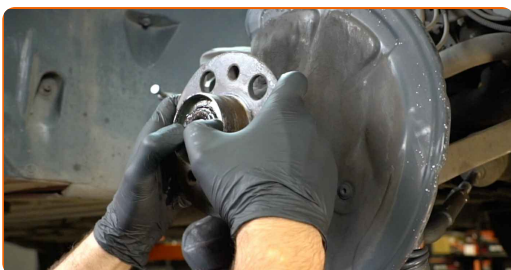
26 Unscrew the hub nut.



27 Remove the fastening nut.



28 Remove the hub and the bearing together, since they are a sealed unit.



29 Clean the wheel hub mounting seat. Use all-purpose cleaning spray.



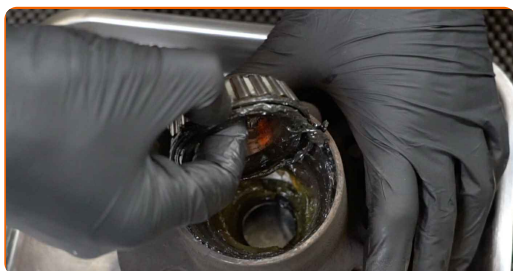
30 Remove the wheel hub bearing.



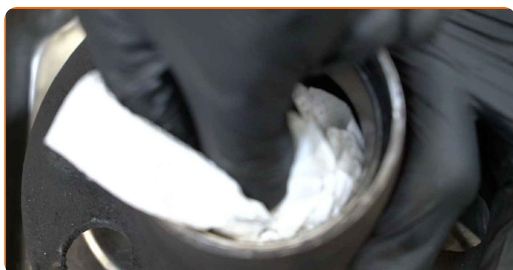
**31** Remove the old O-ring. Use a crowbar.



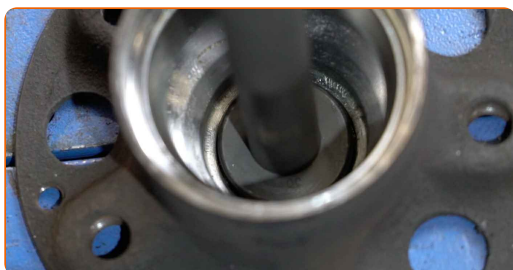
**32** Remove the wheel hub bearing.



**33** Clean the hub bearing mounting seat.



**34** Pull the bearing inner race out of the wheel hub. Use a bush and bearing driver set.



**35** Pull the bearing inner race out of the wheel hub. Use 3-Arm Gear Puller. Use a bush and bearing driver set.





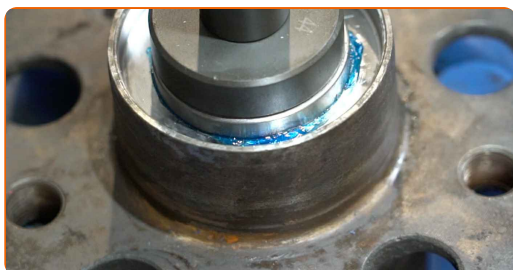
**36** Clean the hub. Use a wire brush. Use all-purpose cleaning spray.



**37** Treat the mounting seat of the bearing assembly. Use a multipurpose grease.



**38** Install the inner race of the wheel bearing into the hub. Use a bush and bearing driver set.



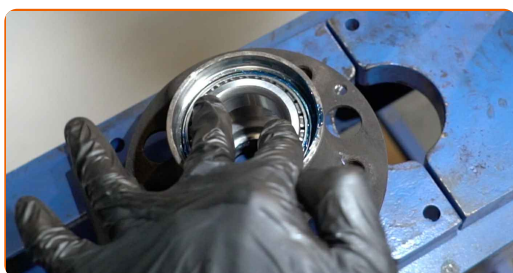
**39** Install the inner race of the wheel bearing into the hub. Use a bush and bearing driver set.



**40** Treat the mounting seat of the bearing assembly. Use a multipurpose grease.



**41** Install a new wheel hub bearing.



**42** Treat the mounting seat of the bearing assembly. Use a multipurpose grease.



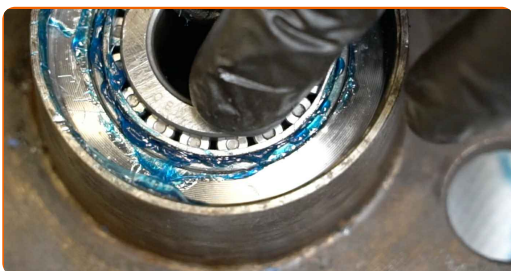
**43** Install the new O-ring. Use a bush and bearing driver set.



**44** Treat the mounting seat of the bearing assembly. Use a multipurpose grease.



**45** Install a new wheel hub bearing.



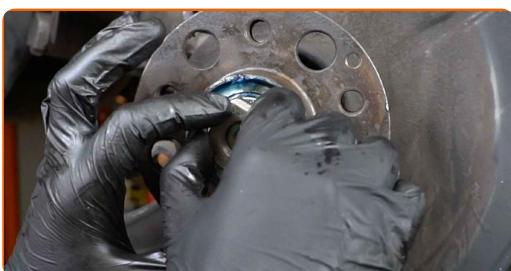
**46** Treat the mounting seat of the bearing assembly. Use a multipurpose grease.



**47** Install the new wheel hub together with the bearing.



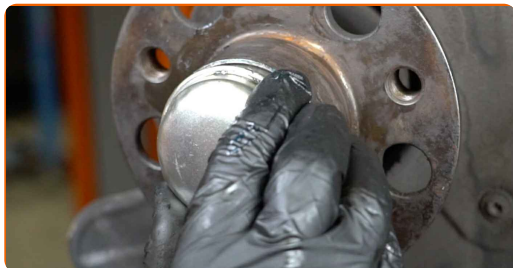
**48** Install the fastening nut.



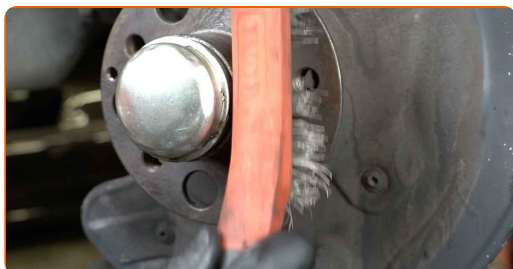


**49** Screw on the hub nut.

**50** Install the cap of the hub nut.



**51** Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



**52** Install the brake disc.



**53** Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 8 Nm torque.



54

Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.

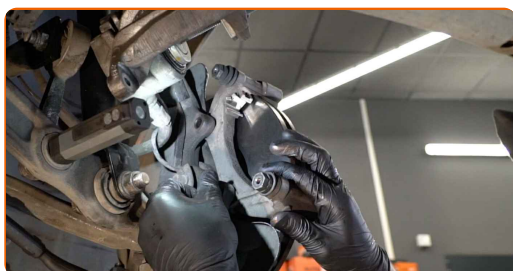


**AUTODOC recommends:**

- Replacement: wheel bearing – MERCEDES-BENZ E-Class T-modell (S212). After applying the spray, wait a few minutes.

55

Install the brake caliper bracket.



56

Tighten the brake caliper bracket. Use a drive socket #21. Use a torque wrench. Tighten it to 115 Nm torque.

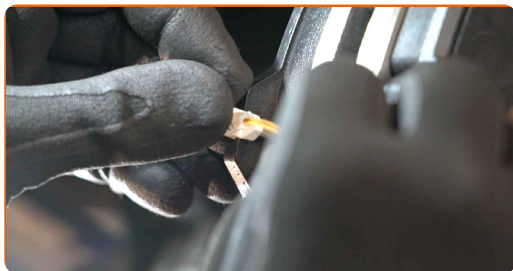


57

Install the brake pads.



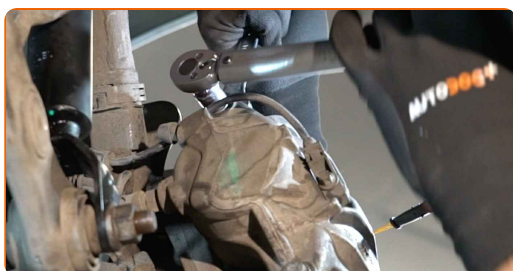
**58** Connect the brake pads wear sensor.



**59** Press in the brake caliper piston. Use brake caliper wind back tool.



**60** Install the brake caliper and fix it. Use a combination spanner #17. Use a drive socket #13. Use a torque wrench. Tighten it to 35 Nm torque.



**61** Attach the connector of the brake pad wear sensor.



**62** Remove the wheel hub nut cap.



**63**

Install the wheel.



**AUTODOC recommends:**

- Important! Hold the wheel while screwing in the fastening bolts. MERCEDES-BENZ E-Class T-modell (S212)

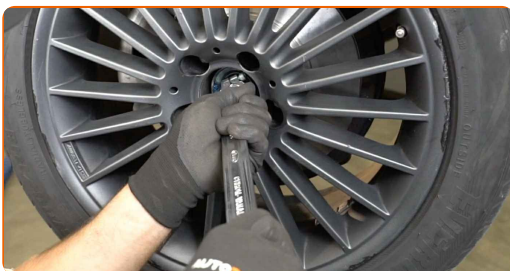
**64**

Screw in the wheel bolts. Use wheel impact socket #17.



**65**

Adjust the wheel bearing. Use a combination spanner #32.



**Replacement: wheel bearing – MERCEDES-BENZ E-Class T-modell (S212).  
AUTODOC experts recommend:**

- Do not apply excessive force when tightening the wheel hub nut. This can damage the tapered roller bearings.

**66** Loosen the wheel mounting bolts. Use wheel impact socket #17.

**67** Unscrew the wheel bolts.



**AUTODOC recommends:**

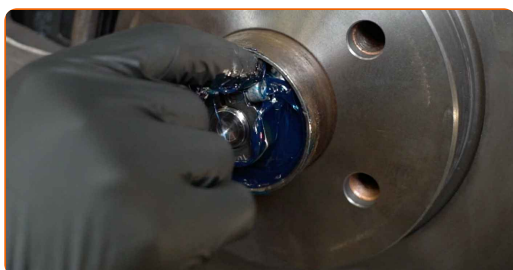
- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
MERCEDES-BENZ E-Class T-modell (S212)

**68** Remove the wheel.

**69** Screw in the wheel hub fastening nut screw. Use HEX No.H5. Use a ratchet wrench.

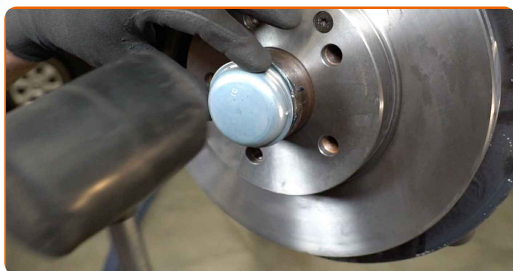


**70** Treat the wheel hub bearing. Use a multipurpose grease.





**71** Install the cap of the hub nut. Use a rubber mallet.



**72** Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



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



**AUTODOC recommends:**

- Replacement: wheel bearing – MERCEDES-BENZ E-Class T-modell (S212). After applying the spray, wait a few minutes.

**74** Install the wheel.



**AUTODOC recommends:**

- **Warning!** To avoid injury, hold the wheel while screwing in the fastening bolts on the car. MERCEDES-BENZ E-Class T-modell (S212)

**75**

Screw in the wheel bolts. Use wheel impact socket #17.



**76**

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 130 Nm torque.



**77**

Remove the jacks and chocks.



**78**

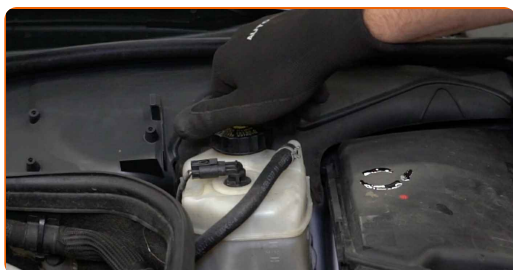
Switch the SBC system to operating mode and disconnect the service equipment.

Replacement: wheel bearing – MERCEDES-BENZ E-Class T-modell (S212). Tip from AUTODOC:

- Check the brake fluid level in the expansion tank and refill if necessary.

79

Tighten the brake fluid reservoir cap.



80

Close the hood.

**WELL DONE!** 

[VIEW MORE TUTORIALS](#)



# AUTODOC – TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE

**AUTODOC MOBILE APP: GREAT DEALS AND CONVENIENT SHOPPING**



**+ AUTODOC**

GET IT ON  
**Google Play**

 Download on the  
**App Store**

**Download**

**A GREAT SELECTION OF SPARE PARTS FOR YOUR CAR**

**WHEEL BEARING: A WIDE SELECTION**

## **DISCLAIMER:**

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AUTODOC shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AUTODOC shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AUTODOC shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AUTODOC strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.

© Copyright 2022 – All the contents of this website, in particular texts, photographs and graphics, are protected by copyright. All rights, including reproduction, publication, editing and translation rights, are reserved by AUTODOC GmbH.