



How to change front  
wheel bearing on  
**MERCEDES-BENZ C-  
Class T-modell (S203)** –  
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 (S203) C 220 CDI (203.208), MERCEDES-BENZ C-Class T-modell (S203) C 200 Kompressor (203.245), MERCEDES-BENZ C-Class T-modell (S203) C 320 (203.264), MERCEDES-BENZ C-Class T-modell (S203) C 200 CDI (203.204), MERCEDES-BENZ C-Class T-modell (S203) C 220 CDI (203.206), MERCEDES-BENZ C-Class T-modell (S203) C 270 CDI (203.216), MERCEDES-BENZ C-Class T-modell (S203) C 180 (203.235), MERCEDES-BENZ C-Class T-modell (S203) C 240 (203.261), MERCEDES-BENZ C-Class T-modell (S203) C 32 AMG Kompressor (203.265), MERCEDES-BENZ C-Class T-modell (S203) C 200 CDI (203.204, 203.207), MERCEDES-BENZ C-Class T-modell (S203) C 180 Kompressor (203.246), MERCEDES-BENZ C-Class T-modell (S203) C 200 Kompressor (203.242), MERCEDES-BENZ C-Class T-modell (S203) C 240 4-matic (203.281), MERCEDES-BENZ C-Class T-modell (S203) C 320 4-matic (203.284), MERCEDES-BENZ C-Class T-modell (S203) C 30 CDI AMG (203.218), (+ 10)

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 C-Class Saloon (W203) C 240 (203.061)

**REPLACEMENT: WHEEL BEARING – MERCEDES-BENZ C-CLASS T-MODELL (S203). LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- All-purpose cleaning spray
- Copper grease
- Multipurpose grease
- Torque wrench
- Combination spanner #32
- HEX bit No.H5
- Drive socket # 12
- Drive socket # E12
- Drive socket # 18
- Torx bit T30
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Impact screwdriver
- Crow bar
- Round-nose pliers
- Bush and bearing driver set
- Hammer
- Rubber mallet
- Vice
- 3-Arm Gear Puller
- Telescoping magnet
- Wheel chock

**Buy tools**

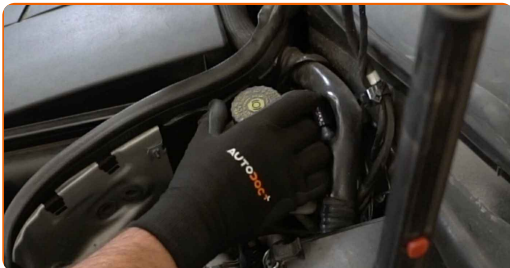
Replacement: wheel bearing – MERCEDES-BENZ C-Class T-modell (S203).  
AUTODOC experts recommend:

- Do not re-use the bearing assembly of your MERCEDES-BENZ C-Class T-modell (S203) car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- All work should be done with the engine stopped.

**REPLACEMENT: WHEEL BEARING – MERCEDES-BENZ C-CLASS T-MODELL (S203). USE THE FOLLOWING PROCEDURE:**

1

Open the bonnet. Unscrew the brake fluid reservoir cap.

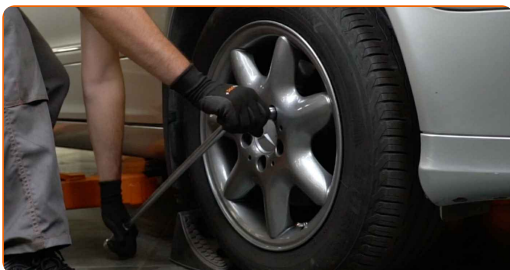


2

Secure the wheels with chocks.

3

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



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

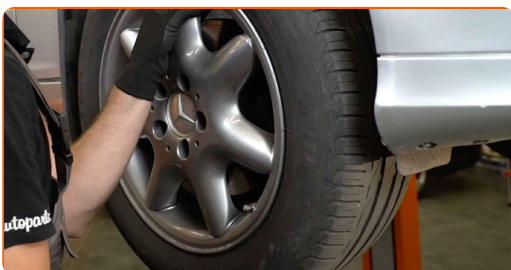
**5** Unscrew the wheel bolts.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
MERCEDES-BENZ C-Class T-modell (S203)

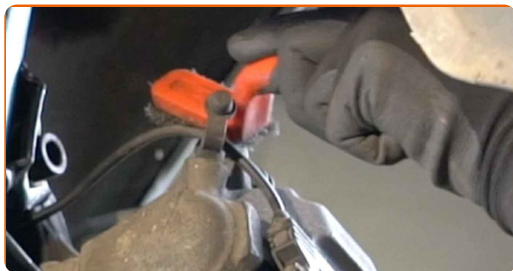
**6** Remove the wheel.



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



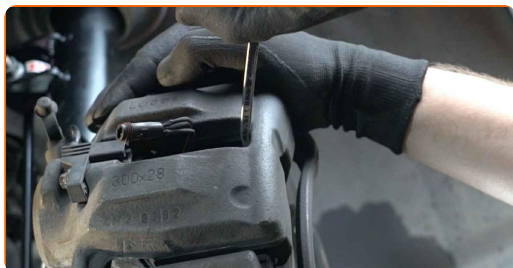
**8** Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.



**9** Unscrew the brake caliper fastening. Use a drive socket #12. Use a ratchet wrench.



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



**11** Remove the brake caliper.



Replacement: wheel bearing – MERCEDES-BENZ C-Class T-modell (S203).  
Professionals recommend:

- 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.

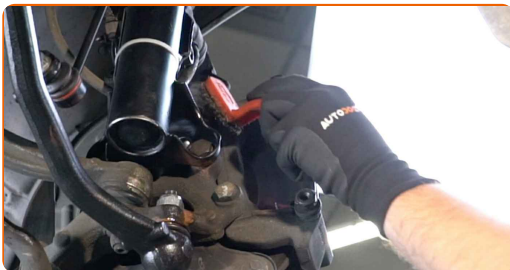
12

Remove the brake pads.



13

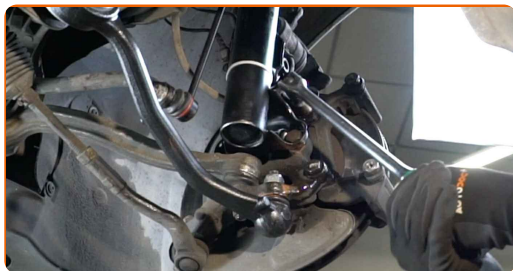
Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.





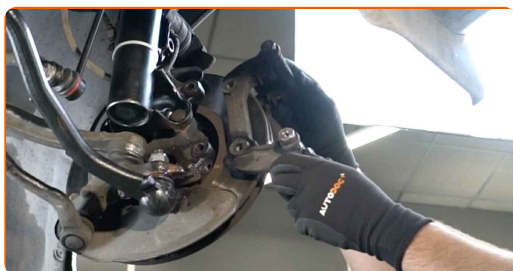
14

Unscrew the caliper bracket fastening. Use a drive socket #18. Use a tap wrench. Use a ratchet wrench.



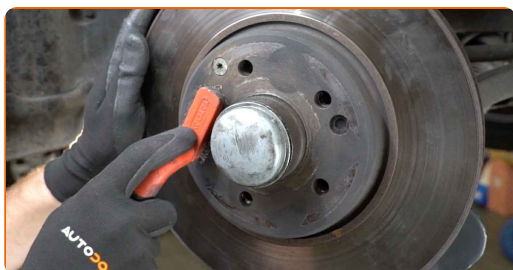
15

Remove the caliper bracket.



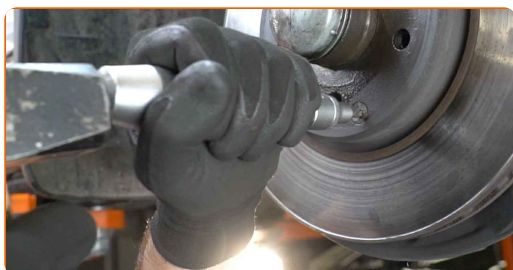
16

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



17

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



**18** Remove the brake disc.



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



Replacement: wheel bearing – MERCEDES-BENZ C-Class T-modell (S203). Tip from AUTODOC:

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

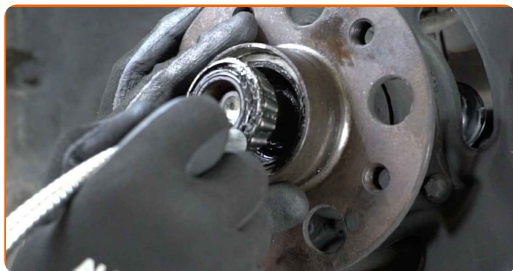
**20** Loosen the wheel hub fastening nut screw. Use HEX No.H5. Use a ratchet wrench.

**21** Make a mark on the hub nut.

**22** Unscrew the hub nut.

**23** Remove the fastening nut.

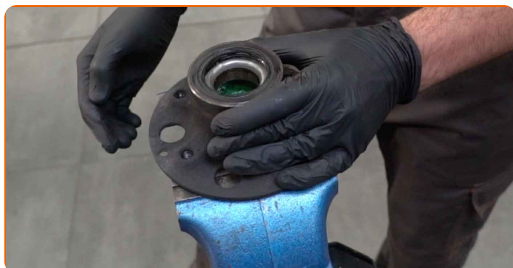
24 Remove the wheel hub bearing. Use a telescoping magnet.



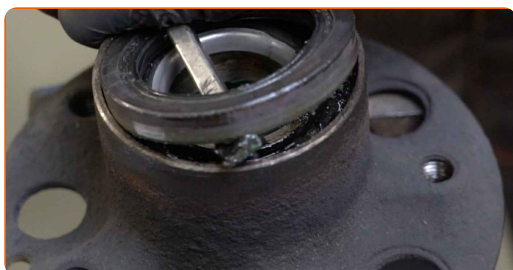
25 Remove the wheel hub together with the bearing.



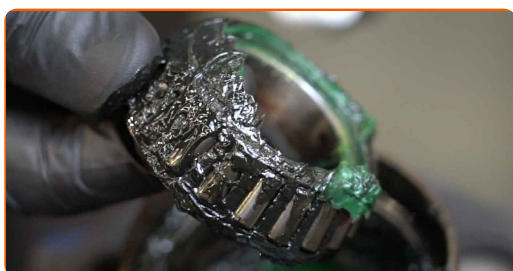
26 Grip the wheel hub together with the bearing in a vice.



27 Remove the old O-ring. Use a crowbar.



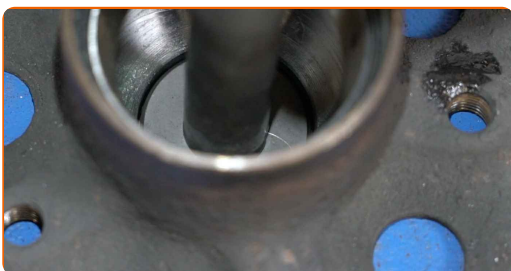
28 Remove the wheel hub bearing.



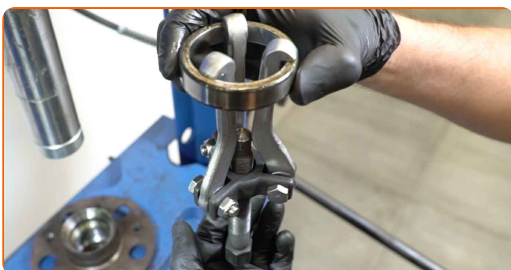
**29** Loosen the vice and remove the hub.



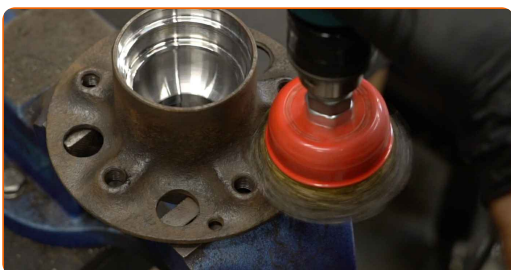
**30** Pull the bearing inner race out of the wheel hub. Use a bush and bearing driver set.



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



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



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



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



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



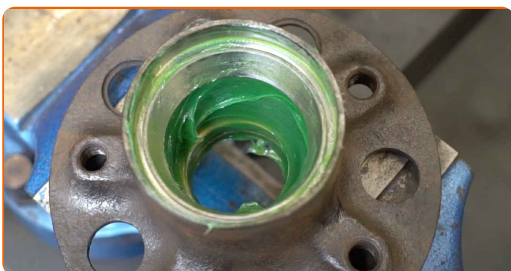
**36** Install the inner race of the wheel bearing into the hub. Use a bush and bearing driver set.



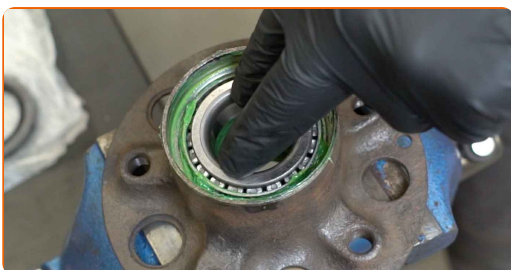
**37** Place the hub in the vice.



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



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



**40** Release the vice and take out the wheel hub together with the bearing.



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

42

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



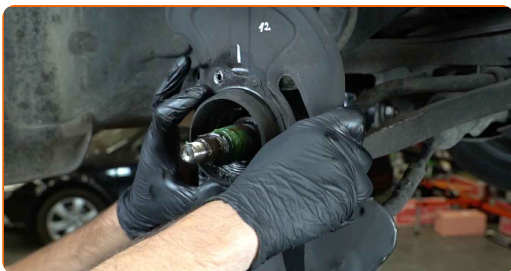
43

Unscrew the fasteners of the brake disc cover. Use a drive socket #E12. Use a ratchet wrench.



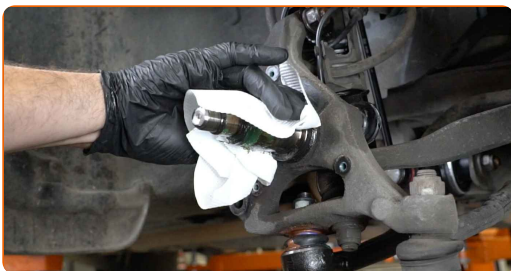
44

Remove the brake disc cover.



45

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



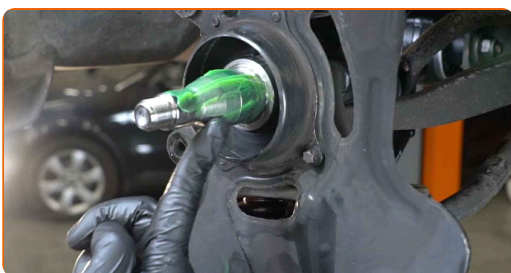
**46** Install the brake disc cover.



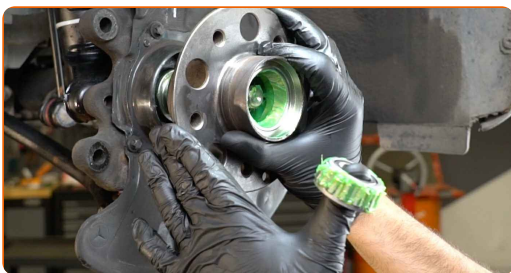
**47** Screw in the fasteners of the brake disc cover. Use a drive socket #E12. Use a torque wrench. Tighten it to 11 Nm torque.



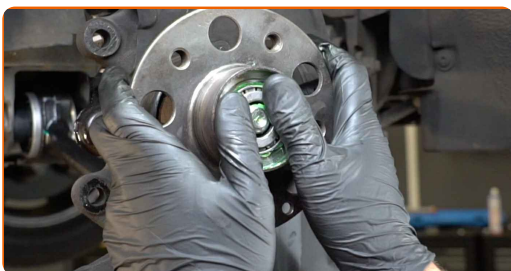
**48** Treat the mounting seat of the bearing assembly. Use a multipurpose grease.



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



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





**51** Install the fastening nut.



Replacement: wheel bearing – MERCEDES-BENZ C-Class T-modell (S203). Tip:

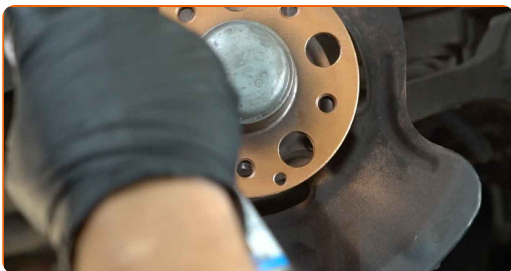
- Insert the hub nut according to the mark.

**52** Screw on the hub nut.

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



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



**55** Install the brake disc.



**56** Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 9 Nm torque.



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



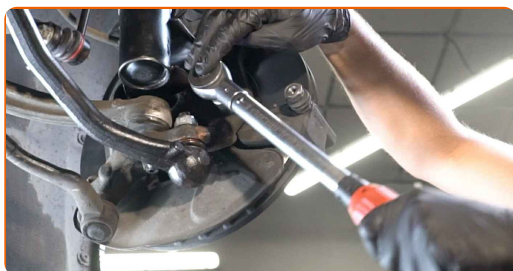
**AUTODOC recommends:**

- Replacement: wheel bearing – MERCEDES-BENZ C-Class T-modell (S203). After applying the spray, wait a few minutes.

**58** Install the brake caliper bracket.



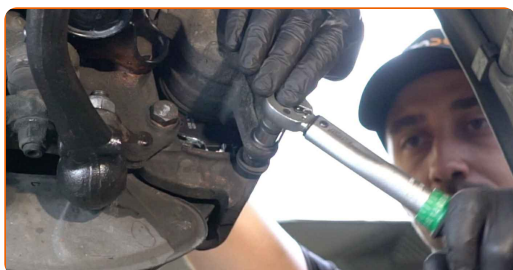
**59** Tighten the brake caliper bracket. Use a drive socket #18. Use a torque wrench. Tighten it to 115 Nm torque.



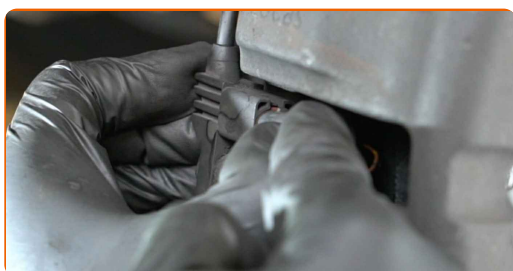
**60** Install the brake pads.



**61** Install the brake caliper and fix it. Use a drive socket #12. Use a torque wrench. Tighten it to 25 Nm torque.



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



63

Remove the wheel hub nut cap.



64

Install the wheel.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. MERCEDES-BENZ C-Class T-modell (S203)

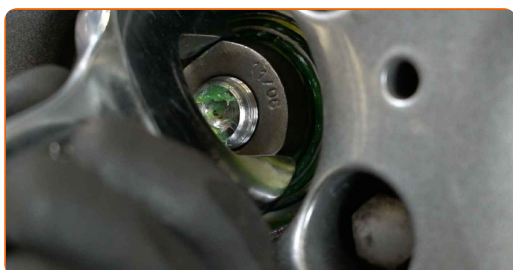
65

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



66

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



Replacement: wheel bearing – MERCEDES-BENZ C-Class T-modell (S203).  
AUTODOC experts recommend:

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

67

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



68

Unscrew the wheel bolts.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
MERCEDES-BENZ C-Class T-modell (S203)

69

Remove the wheel.



70

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



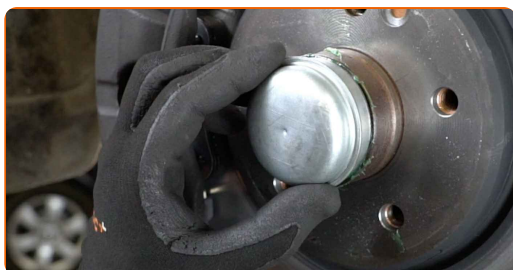
71

Treat the wheel hub bearing. Use a multipurpose grease.



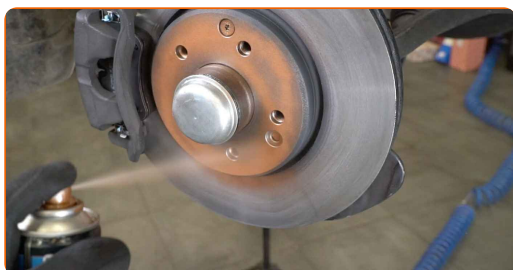
72

Install the cap of the hub nut. Use a rubber mallet. Use a crowbar.



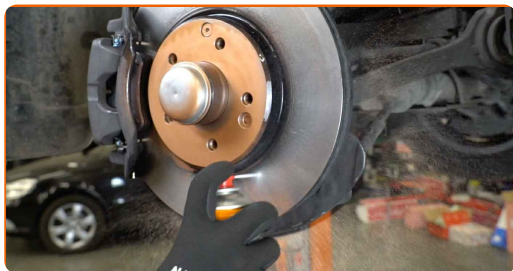
73

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



74

Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: wheel bearing – MERCEDES-BENZ C-Class T-modell (S203). After applying the spray, wait a few minutes.

75

Install the wheel.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. MERCEDES-BENZ C-Class T-modell (S203)

76

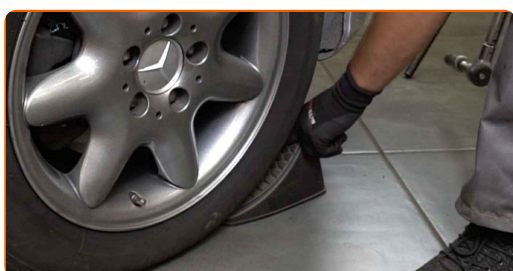
Screw in the wheel bolts. Use wheel impact socket #17.



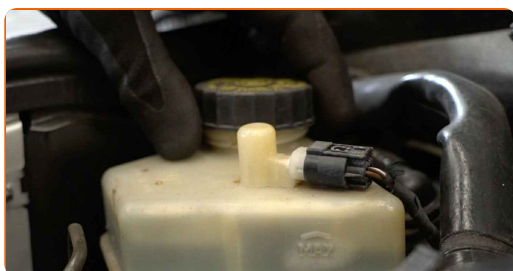
**77** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



**78** Remove the jacks and chocks.



**79** Tighten the brake fluid reservoir cap. Close the hood.



**WELL DONE!** 

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