



How to change front  
wheel bearing on  
**MERCEDES-BENZ CLS**  
**Shooting Brake (X218)** –  
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 CLS Shooting Brake (X218) CLS 350 (218.959), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 500 (218.973), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 63 AMG (218.974), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 250 CDI / BlueTEC / d (218.903, 218.904), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 350 CDI (218.923), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 63 AMG (218.975), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 220 BlueTEC / d (218.901), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 220 BlueTEC (218.901), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 350 BlueTEC / d (218.926), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 400 (218.965), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 400 (218.961)

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 (W211) E 270 CDI (211.016)

**REPLACEMENT: WHEEL BEARING – MERCEDES-BENZ  
CLS SHOOTING BRAKE (X218). 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 CLS Shooting Brake (X218).  
Tip from AUTODOC experts:

- Do not re-use the bearing assembly of your MERCEDES-BENZ CLS Shooting Brake (X218) 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 CLS Shooting Brake (X218) – should be done with the engine switched off.

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

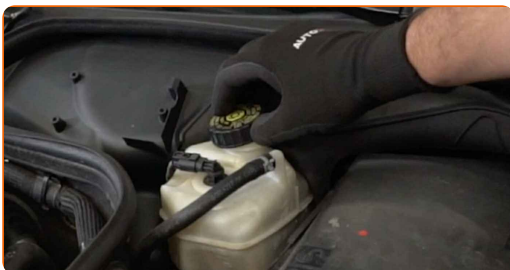
**1** Open the bonnet.

**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.

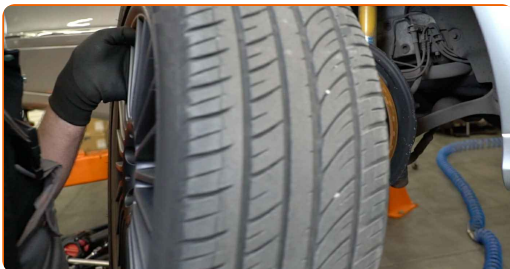
**7** Unscrew the wheel bolts.



**AUTODOC recommends:**

- Important! Hold the wheel while unscrewing the fastening bolts. MERCEDES-BENZ CLS Shooting Brake (X218)

**8** Remove the wheel.



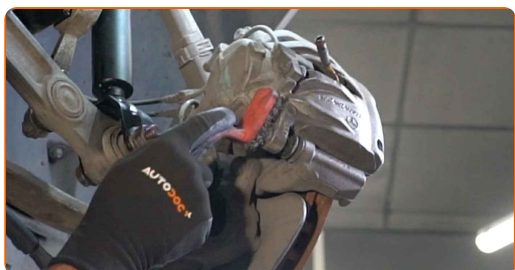
**9** Detach the connector of the brake pad wear sensor. Use round-nose pliers.



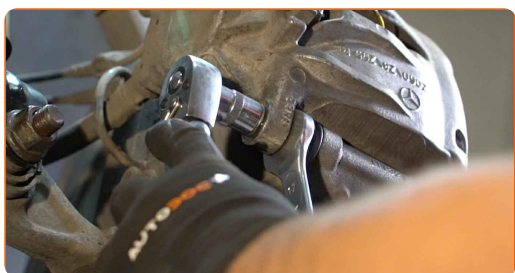
**10** Spread the brake pads. Use a crowbar.



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

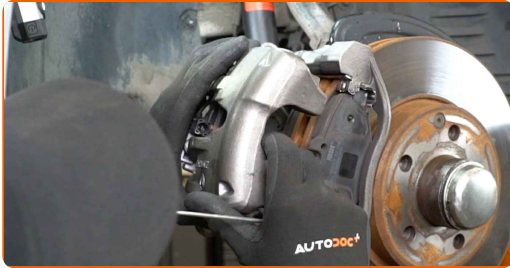


**12** Unscrew the brake caliper fastening. Use a combination spanner #17. Use a drive socket #13. Use a ratchet wrench.



**13**

Remove the brake caliper.



**Replacement: wheel bearing – MERCEDES-BENZ CLS Shooting Brake (X218).**  
**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 CLS Shooting Brake (X218).  
After applying the spray, wait a few minutes.

**15**

Install the brake caliper wind back tool.



**16**

Remove the brake pads.

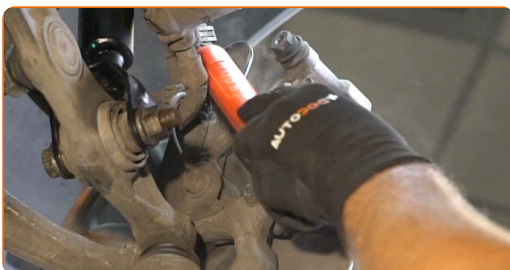


**17**

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.



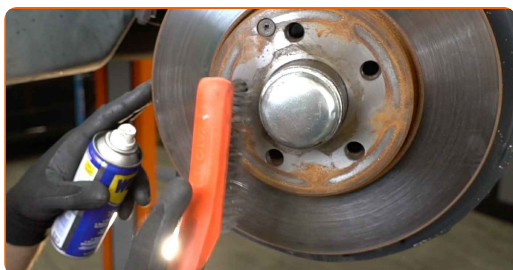
20

Remove the caliper bracket.



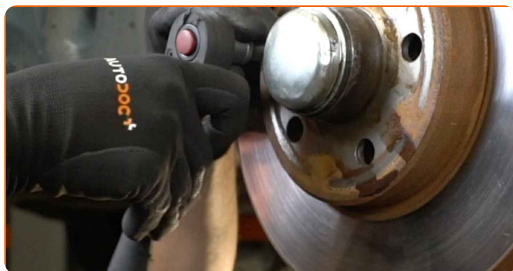
21

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.



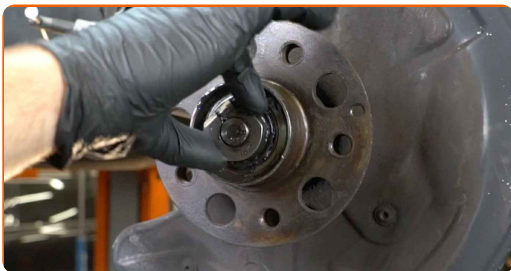
Replacement: wheel bearing – MERCEDES-BENZ CLS Shooting Brake (X218).  
Tip from AUTODOC experts:

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

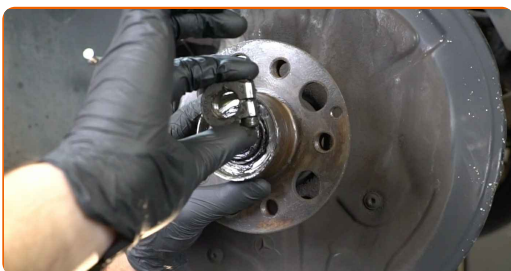
**25** Loosen the wheel hub fastening nut screw. Use HEX No.H5. Use a ratchet wrench.



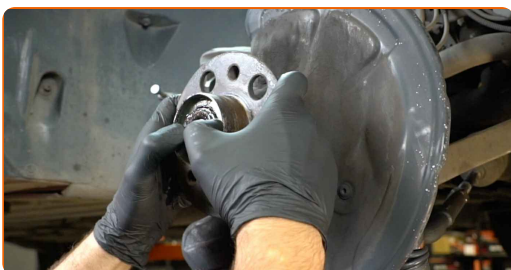
26 Unscrew the hub nut.



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.



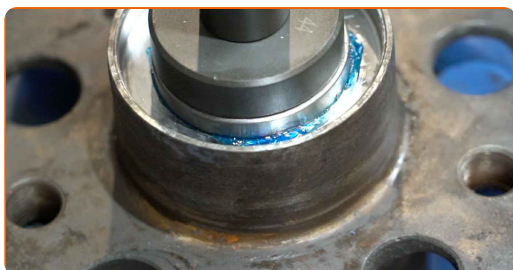
37

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.

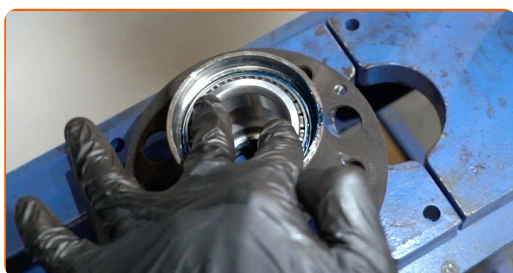




**40** Treat the mounting seat of the bearing assembly. Use a multipurpose grease.



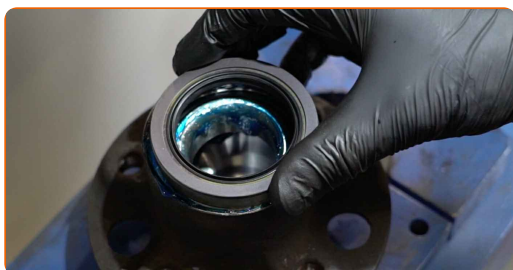
**41** Install a new wheel hub bearing.



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



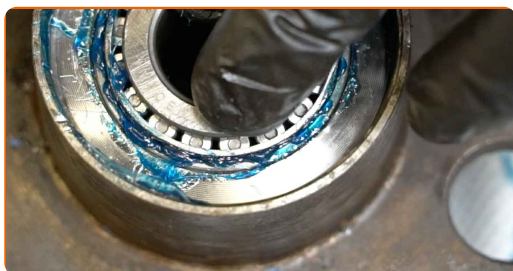
**43** Install the new O-ring. Use a bush and bearing driver set.



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



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



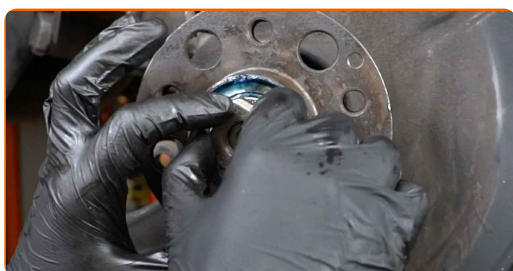
**46** Treat the mounting seat of the bearing assembly. Use a multipurpose grease.



**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.

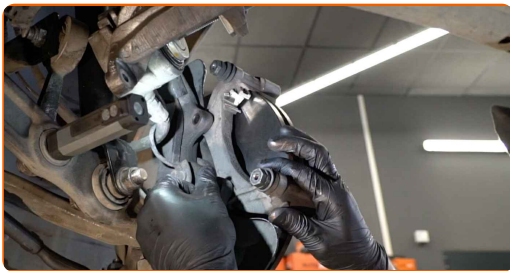


**AUTODOC recommends:**

- Replacement: wheel bearing – MERCEDES-BENZ CLS Shooting Brake (X218).  
After applying the spray, wait a few minutes.

**55**

Install the brake caliper bracket.



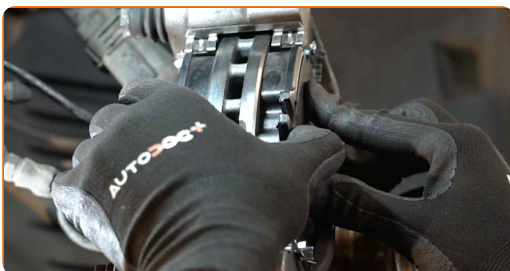
**56**

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

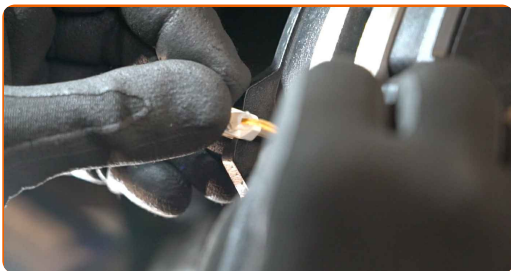


**57**

Install the brake pads.



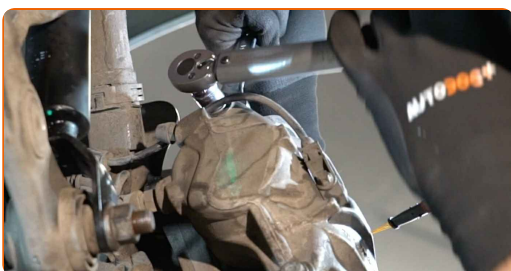
**58** Connect the brake pads wear sensor.



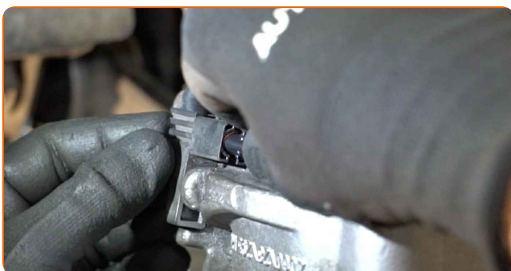
**59** Press in the brake caliper piston. Use brake caliper wind back tool.



**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.

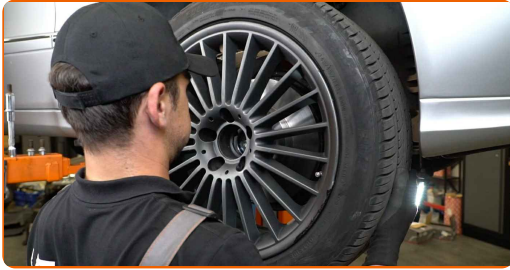


**62** Remove the wheel hub nut cap.



**63**

Install the wheel.



**AUTODOC recommends:**

- Important! Hold the wheel while screwing in the fastening bolts. MERCEDES-BENZ CLS Shooting Brake (X218)

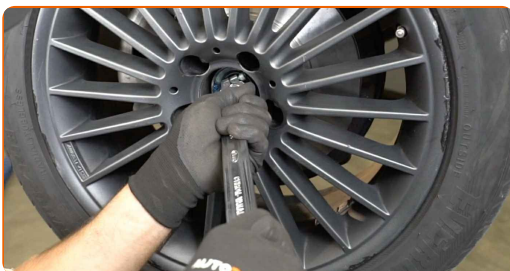
**64**

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 CLS Shooting Brake (X218).  
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.

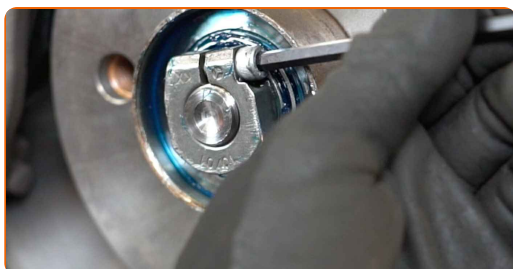


**AUTODOC recommends:**

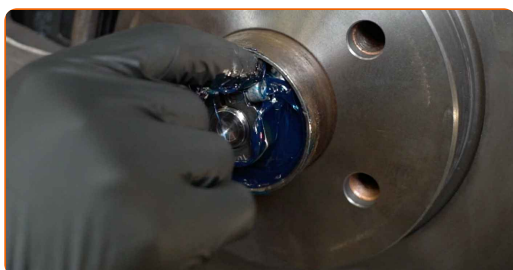
- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
MERCEDES-BENZ CLS Shooting Brake (X218)

**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.



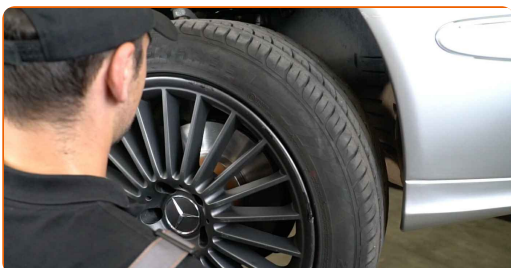
**73** Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: wheel bearing – MERCEDES-BENZ CLS Shooting Brake (X218).  
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 CLS Shooting Brake (X218)

**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 CLS Shooting Brake (X218).  
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!** 

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