

Main work

- Remove screws ❶.
- Take off the ABS sensor wheel and brake disc.
- Clean the contact surface of the brake disc.
- Position the new brake disc with the label facing outward.
- Position the ABS sensor wheel.
- Mount and tighten screws ❶.

Guideline

Screw, front brake disc	M6	14 Nm (10.3 lbf ft) Loctite®243™
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Finishing work

- Install the front wheel. (📖 p. 117)
- Remove the rear of the motorcycle from the wheel stand. (📖 p. 13)



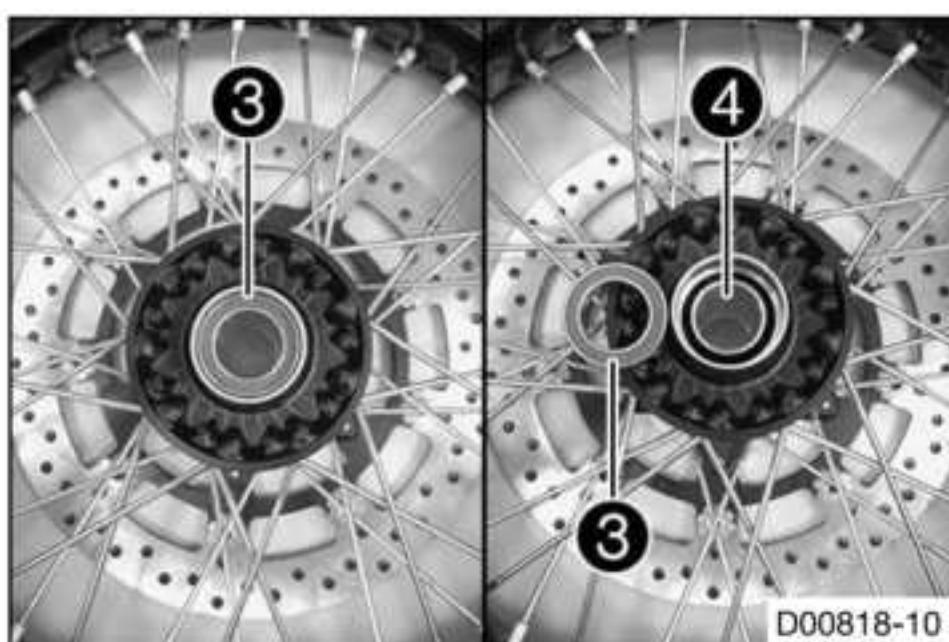
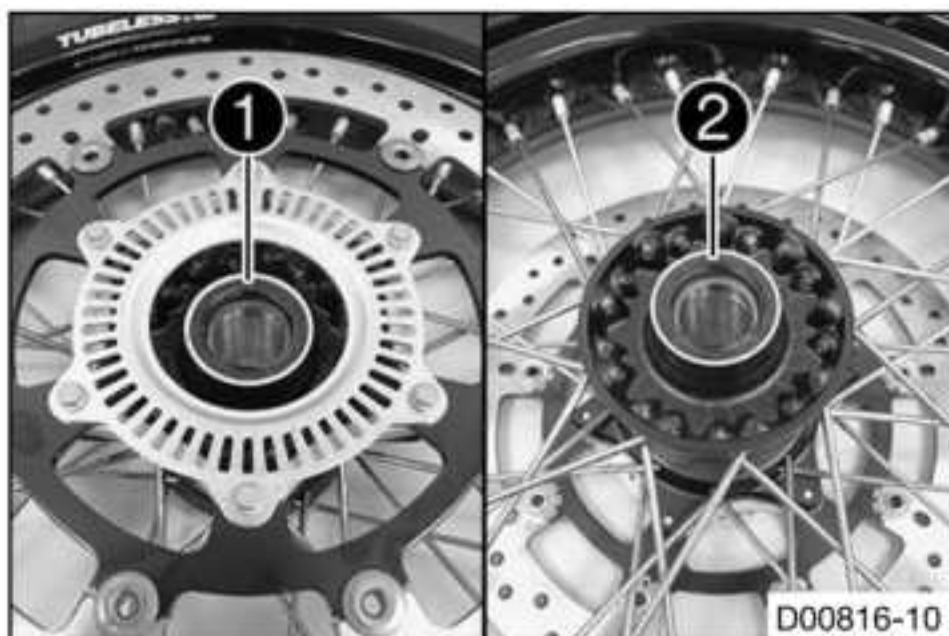
14.7.6 Changing the front wheel bearing

Preparatory work

- Raise the motorcycle with the rear lifting gear. (📖 p. 13)
- Lift the motorcycle with the front lifting gear. (📖 p. 13)
- Remove the front wheel. (📖 p. 115)

Main work

- Remove shaft seal rings ❶ and ❷.



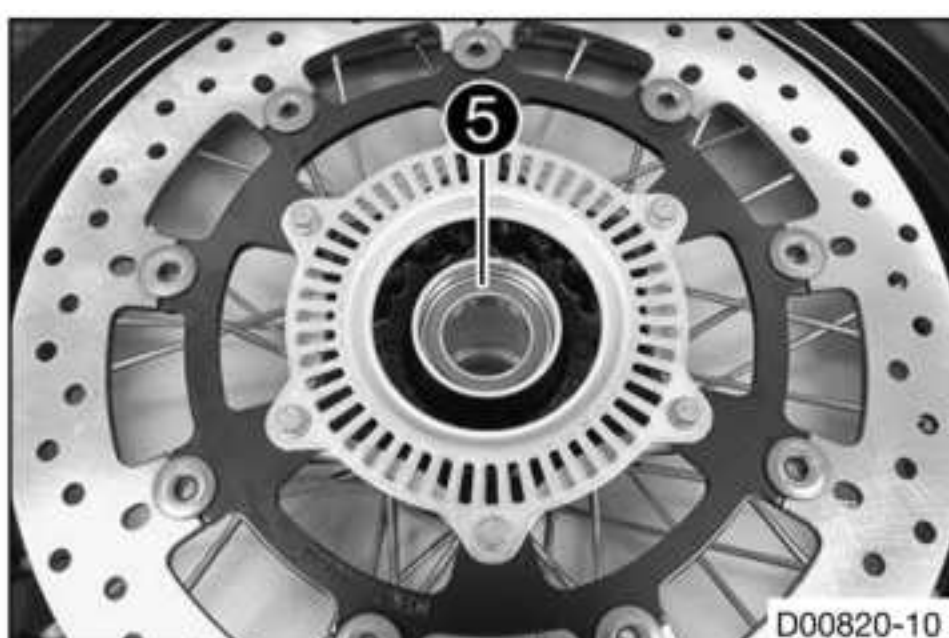
- Press out bearing ❸ using a suitable tool.



Info

Spacing tube ❹ can be pushed aside.

- Remove the spacing tube.

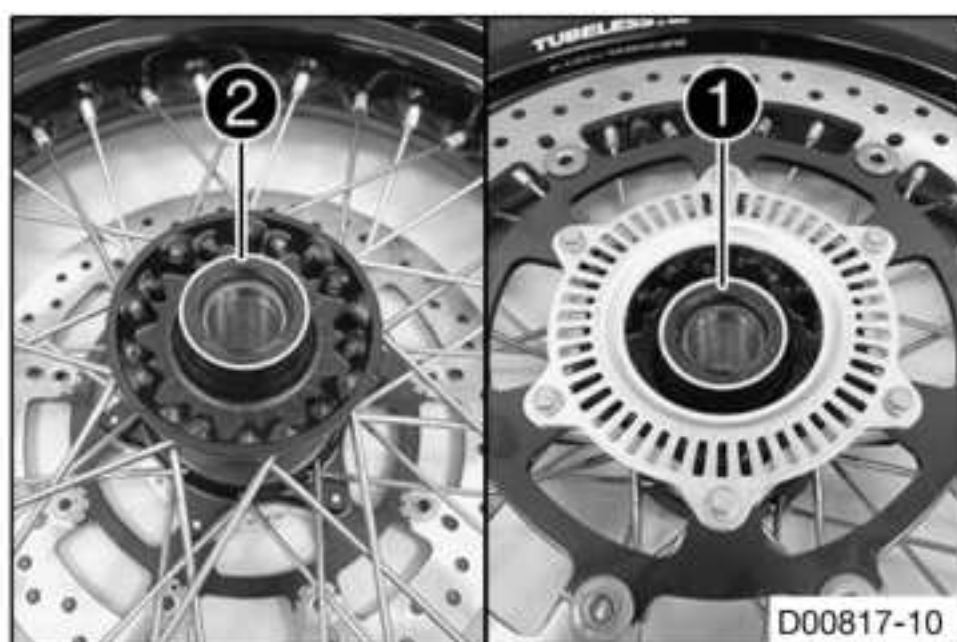
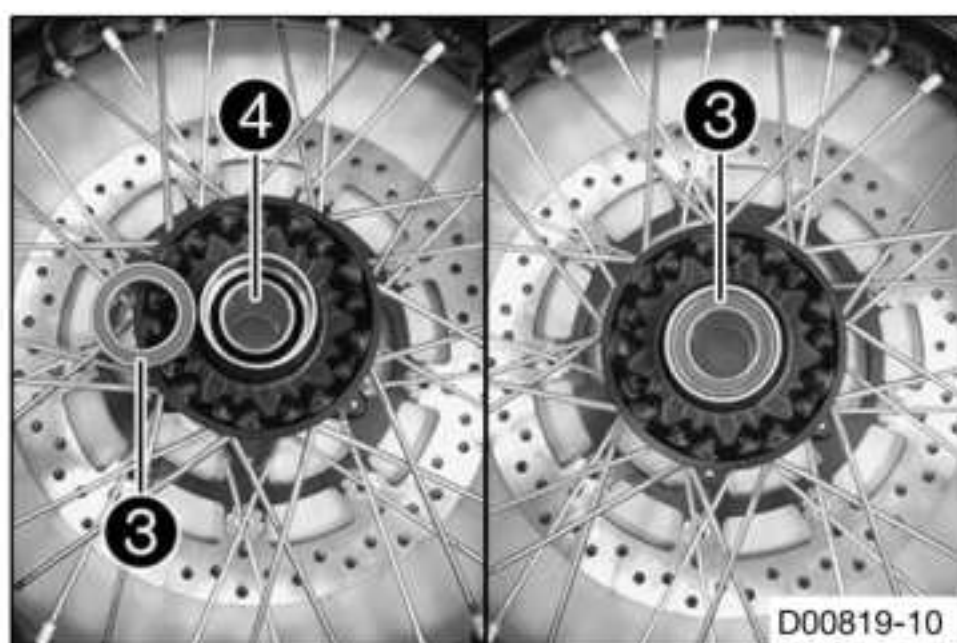


- Press out bearing ❺ using a suitable tool.
- Press in new bearing ❺ all the way using a suitable tool.



Info

Only press the bearing in via the outer bearing race otherwise the bearing will be damaged when it is pressed in.



- Clean, grease, and mount spacing tube ④.

Long-life grease (📖 p. 378)

- Press in new bearing ③ all the way using a suitable tool.

i Info

Only press the bearing in via the outer bearing race otherwise the bearing will be damaged when it is pressed in.

- Grease new shaft seal rings ② and ① and press in until they are flush.

Finishing work

- Install the front wheel. (📖 p. 117)
- Remove the rear of the motorcycle from the wheel stand. (📖 p. 13)

14.8 Rear wheel

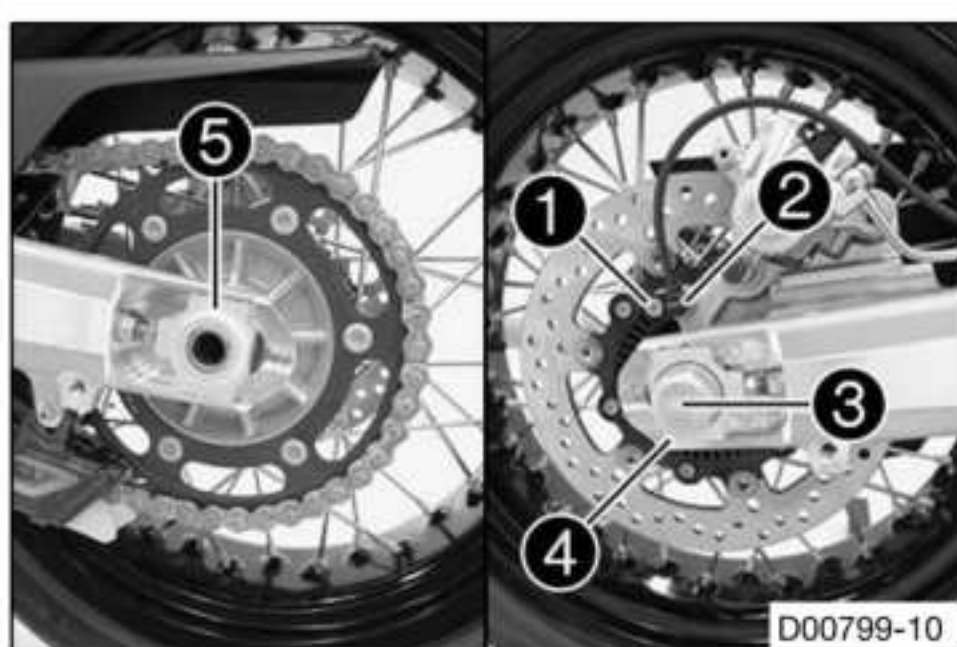
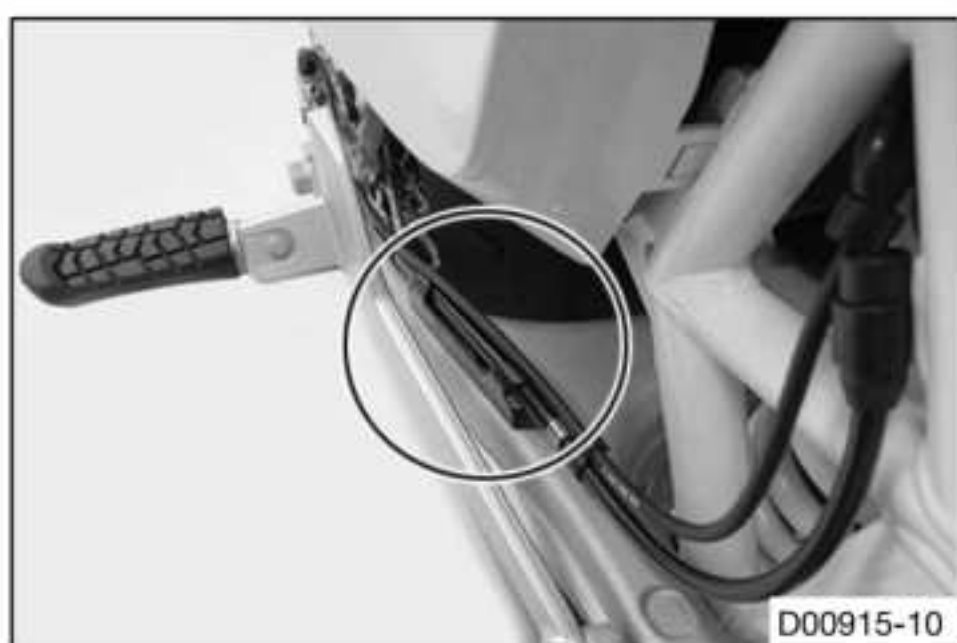
14.8.1 Removing the rear wheel using a work stand

Preparatory work

- Raise the motorcycle with the work stand. (📖 p. 14)

Main work

- Take the brake line out of the guide.



- Press the brake caliper onto the brake disc by hand in order to push back the brake piston.
- Remove screw ① and pull wheel speed sensor ② out of the hole.
- Remove nut ③. Remove chain adjuster ④.
- Pull out wheel spindle ⑤ to the point where the chain adjuster is no longer in contact with the adjusting screw.



- Push the rear wheel forward as far as possible and take the chain off the rear sprocket.



Info

Cover the components to protect them against damage.

- Hold the rear wheel and remove the wheel spindle.



Warning

Danger of accidents Reduced braking effect caused by damaged brake discs.

- Always lay the wheel down in such a way that the brake discs are not damaged.

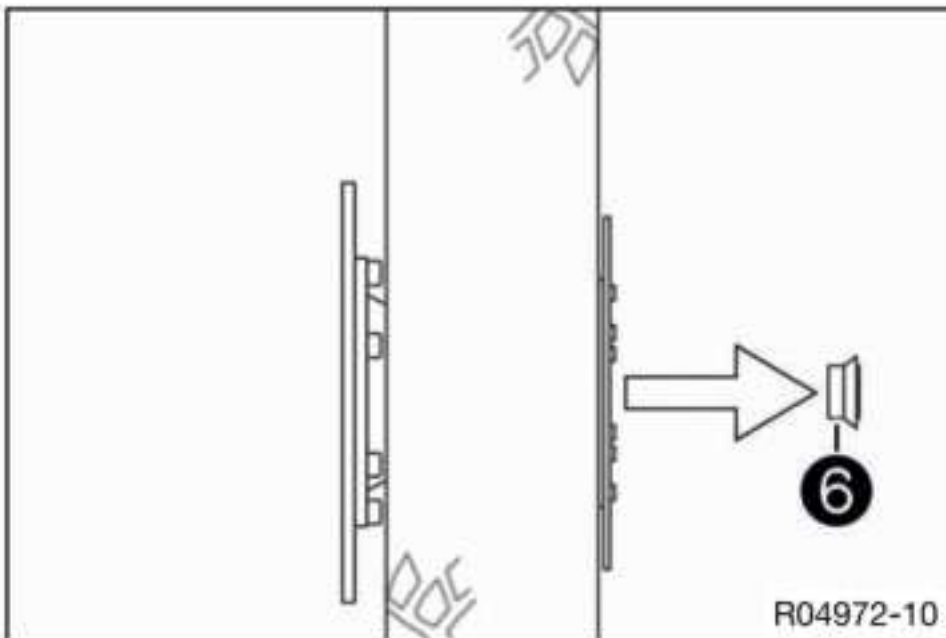
- Take the rear wheel out of the link fork.



Info

Do not operate the foot brake when the rear wheel is removed.

- Remove spacer ⑥.



14.8.2 Removing the rear wheel

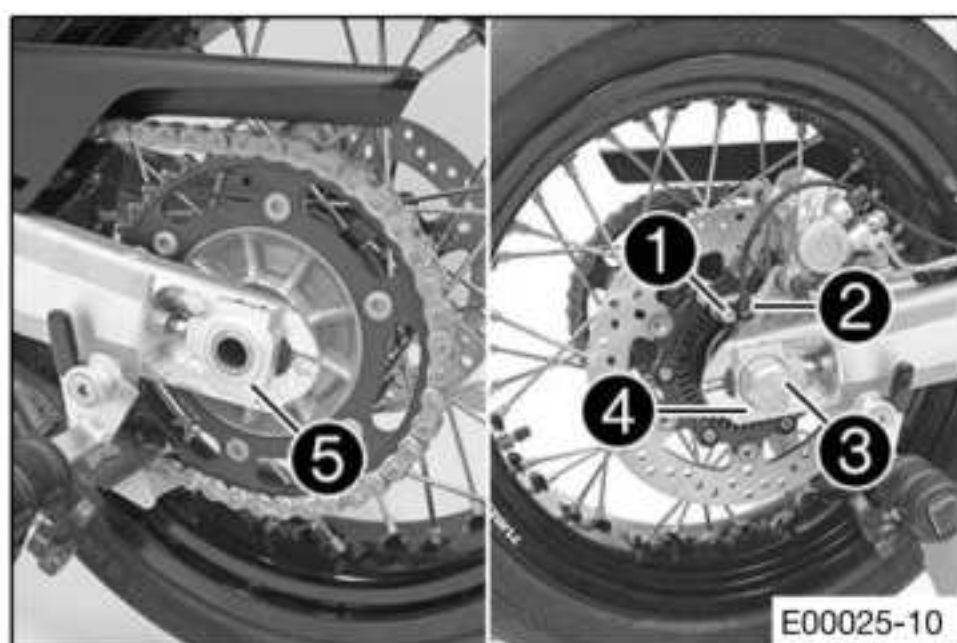
Preparatory work

- Raise the motorcycle with the rear lifting gear. (p. 13)

Main work

- Take the brake line out of the guide.





- Press the brake caliper onto the brake disc by hand in order to push back the brake piston.
- Remove screw ① and pull wheel speed sensor ② out of the hole.
- Remove nut ③. Remove chain adjuster ④.
- Pull out wheel spindle ⑤ to the point where the chain adjuster is no longer in contact with the adjusting screw.



- Push the rear wheel forward as far as possible and take the chain off the rear sprocket.



Info

Cover the components to protect them against damage.

- Hold the rear wheel and remove the wheel spindle.



Warning

Danger of accidents Damaged brake discs reduce the braking effect.

- Always lay the wheel down in such a way that the brake disc is not damaged.

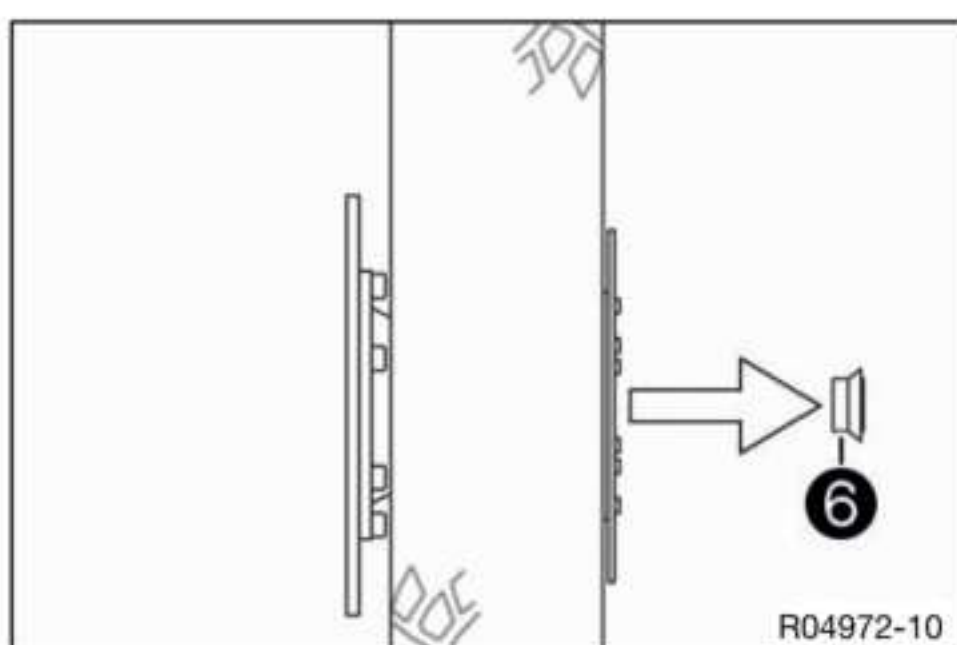
- Take the rear wheel out of the link fork.



Info

Do not operate the foot brake when the rear wheel is removed.

- Remove spacer ⑥.



14.8.3 Removing the rear wheel using a work stand



Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

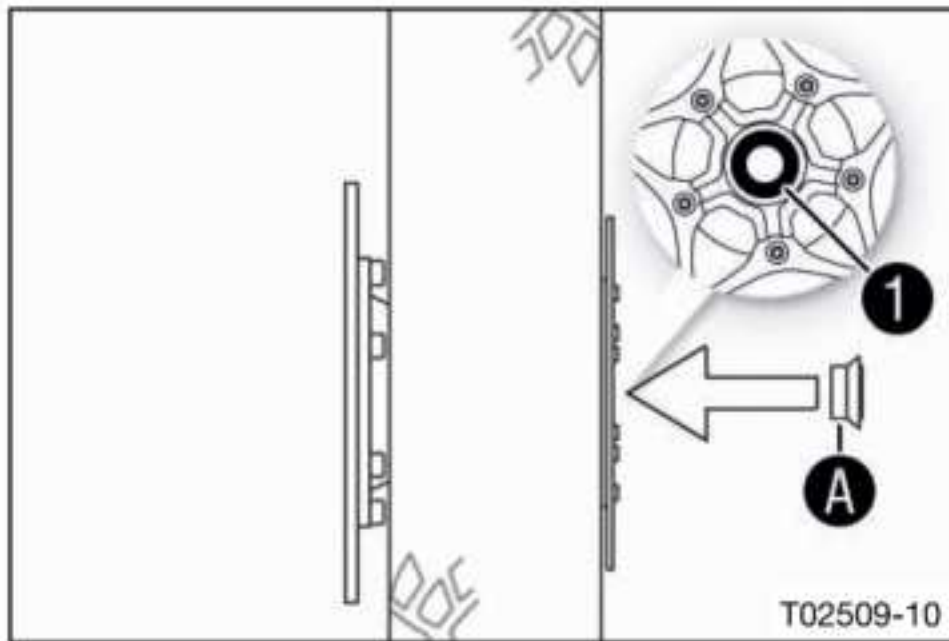
- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.



Warning

Danger of accidents There is no braking effect to start with at the rear brake after installing the rear wheel.

- Actuate the foot brake several times before going on a ride until you can feel a firm pressure point.



Main work

- Check the rear hub damping rubber pieces. (p. 136)
- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the rear wheel bearing. (p. 126)
- Remove spacer ①.
- Clean and grease shaft seal ring ② and contact surface of the spacer.

Long-life grease (p. 378)
- Insert the spacer.
- Clean and grease the thread of the wheel spindle and nut ③.

Long-life grease (p. 378)
- Mount the damping rubber and rear sprocket carrier in the rear wheel.
- Position the rear wheel.
 - ✓ The brake linings are correctly positioned.



- Push the rear wheel forward as far as possible and lay the chain on the rear sprocket.
- Mount wheel spindle and chain adjuster ④. Mount nut ③, but do not tighten it yet.
- Make sure that chain adjusters ④ are fitted correctly on the adjusting screws.

Guideline

In order for the rear wheel to be correctly aligned, the markings on the left and right chain adjusters must be in the same position relative to reference markings A.

Info

Mount left and right chain adjusters ④ in the same position.

- Tighten nut ③.

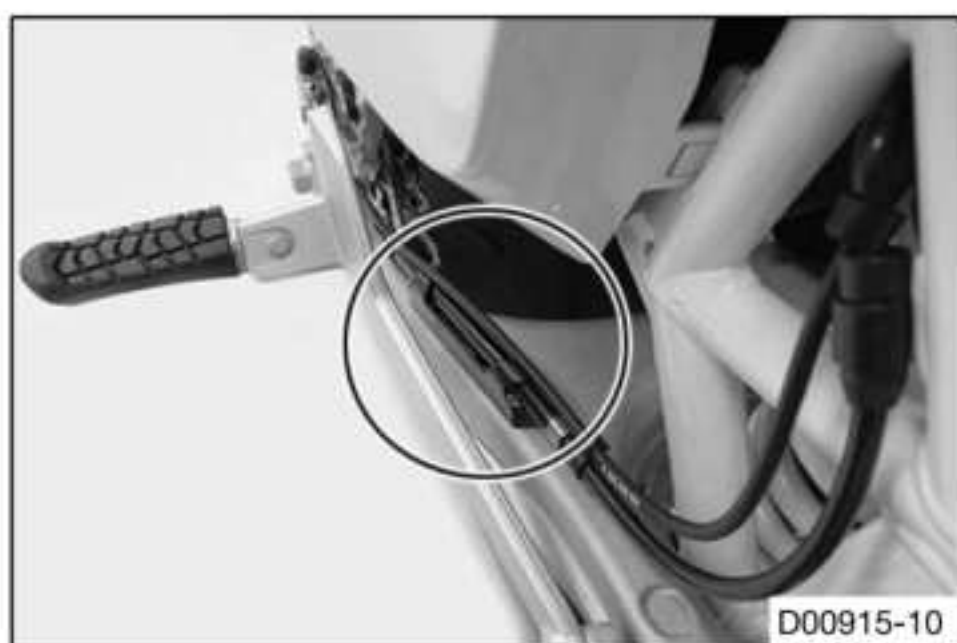
Guideline

Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)
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- Position wheel speed sensor ⑤ in the hole.
- Mount and tighten screw ⑥.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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- Position the brake line in the guide.
- Operate the foot brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point.

Finishing work

- Remove the motorcycle from the work stand. (📖 p. 15)
- Check the chain tension. (📖 p. 130)

14.8.4 Installing the rear wheel



Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.



Warning

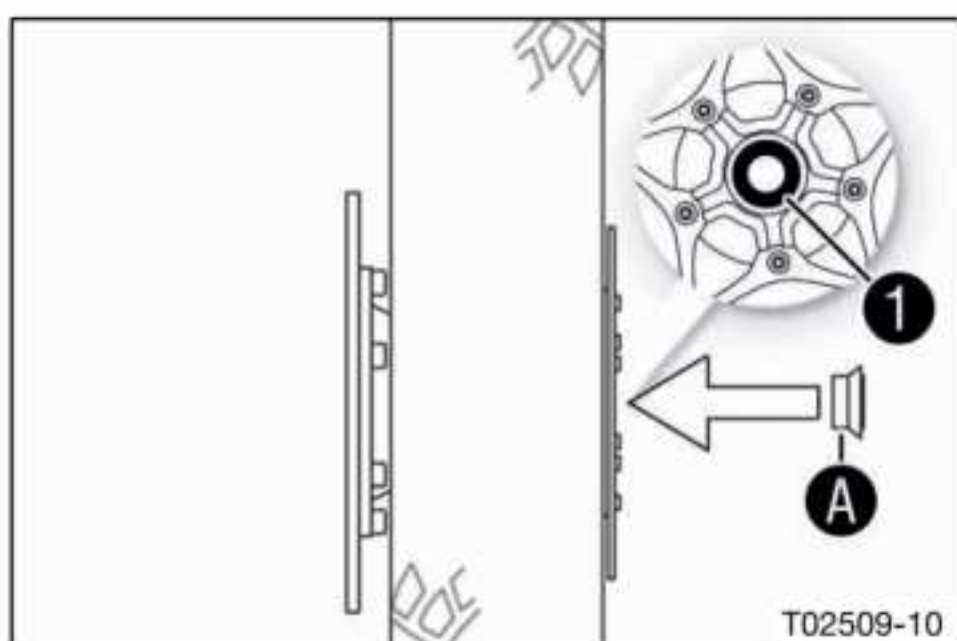
Danger of accidents There is no braking effect to start with at the rear brake after installing the rear wheel.

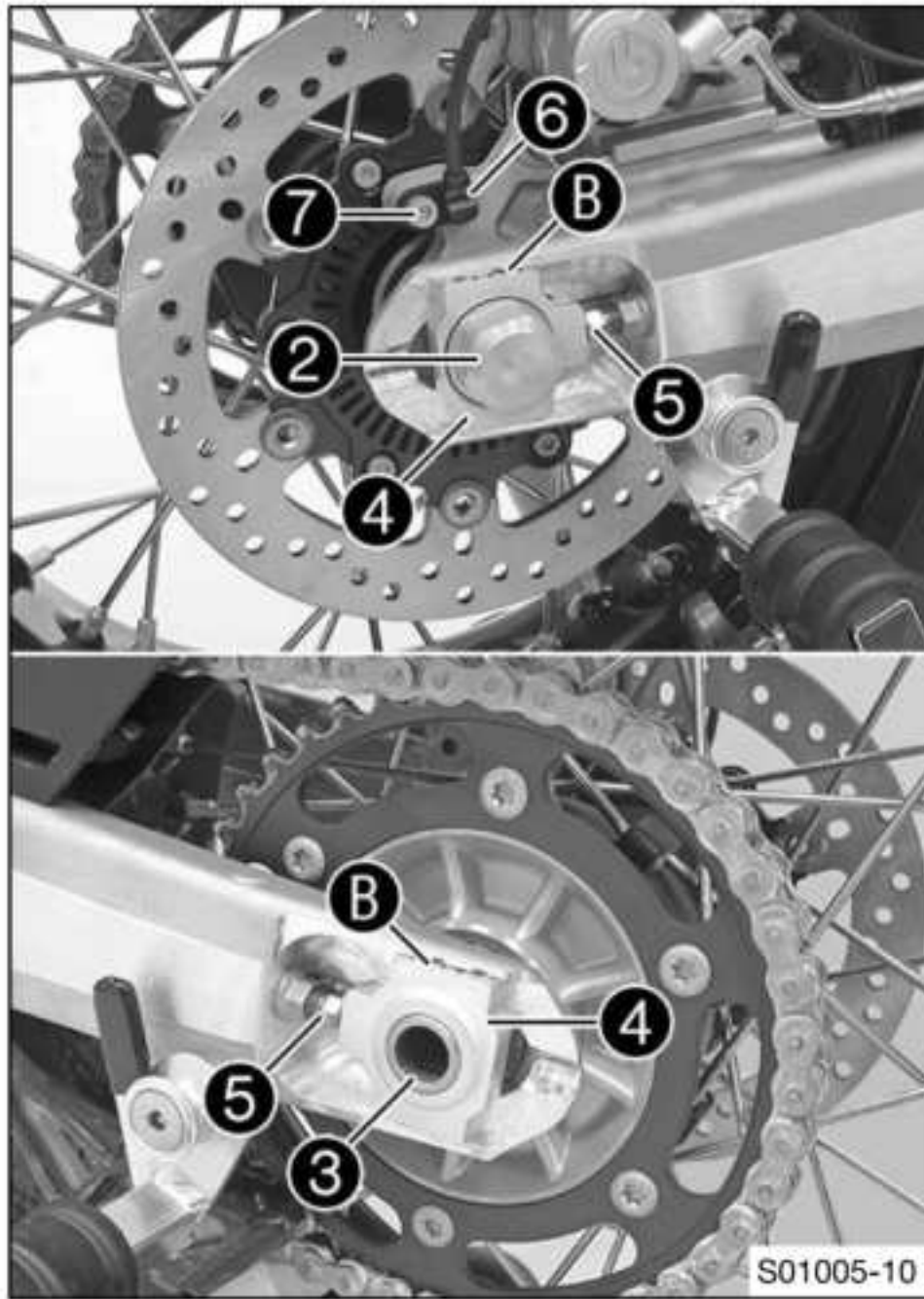
- Actuate the foot brake several times before going on a ride until you can feel a firm pressure point.

Main work

- Check the rear hub damping rubber pieces. (📖 p. 136)
- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the rear wheel bearing. (📖 p. 126)
- Clean and grease shaft seal ring **1** and contact surface **A** of the spacer.

Long-life grease (📖 p. 378)
- Insert the spacer.





- Clean and grease the thread of the wheel spindle and nut ②.
Long-life grease (📖 p. 378)
- Clean and grease the wheel spindle.
Long-life grease (📖 p. 378)
- Mount the damping rubber and rear sprocket carrier in the rear wheel.
- Position the rear wheel.
✓ The brake linings are correctly positioned.
- Push the rear wheel forward as far as possible and lay the chain on the rear sprocket.
- Mount wheel spindle ③ and chain adjuster ④. Mount nut ②, but do not tighten it yet.
- Make sure that chain adjusters ④ are fitted correctly on adjusting screws ⑤.

Guideline

In order for the rear wheel to be correctly aligned, the markings on the left and right chain adjusters must be in the same position relative to reference markings B.



Info

Mount left and right chain adjusters ④ in the same position.

- Tighten nut ②.

Guideline

Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)
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- Position wheel speed sensor ⑥ in the hole.
- Mount and tighten screw ⑦.

Guideline

Screw, wheel speed sensor	M6	6 Nm (4.4 lbf ft)
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- Position the brake line in the guide.
- Operate the foot brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point.



Finishing work

- Remove the rear of the motorcycle from the wheel stand.
(📖 p. 13)
- Check the chain tension. (📖 p. 130)

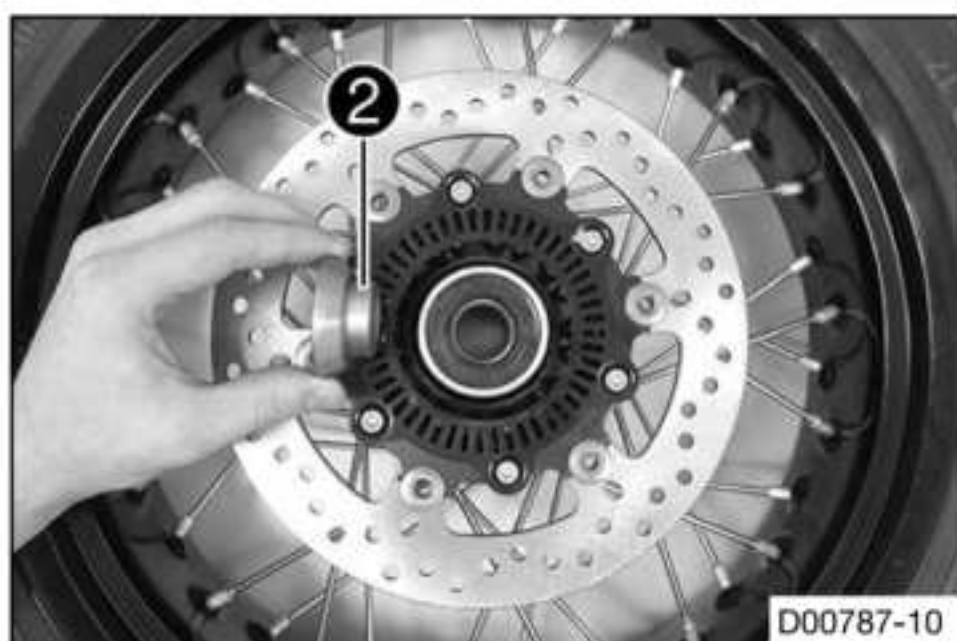
14.8.5 Changing the rear wheel bearing

Preparatory work

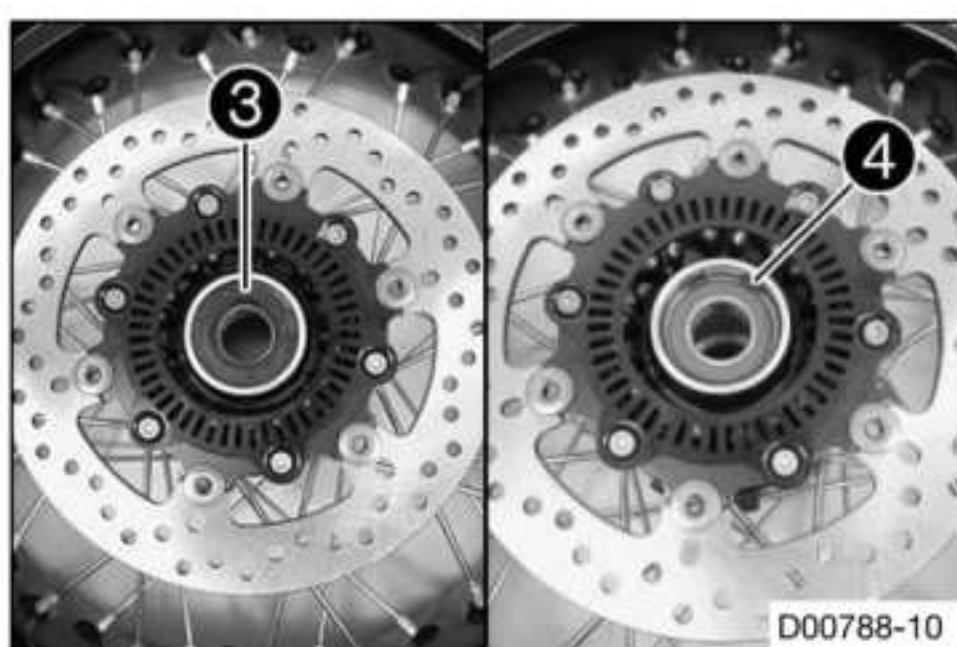
- Raise the motorcycle with the rear lifting gear. (📖 p. 13)
- Remove the rear wheel. (📖 p. 121)

Main work

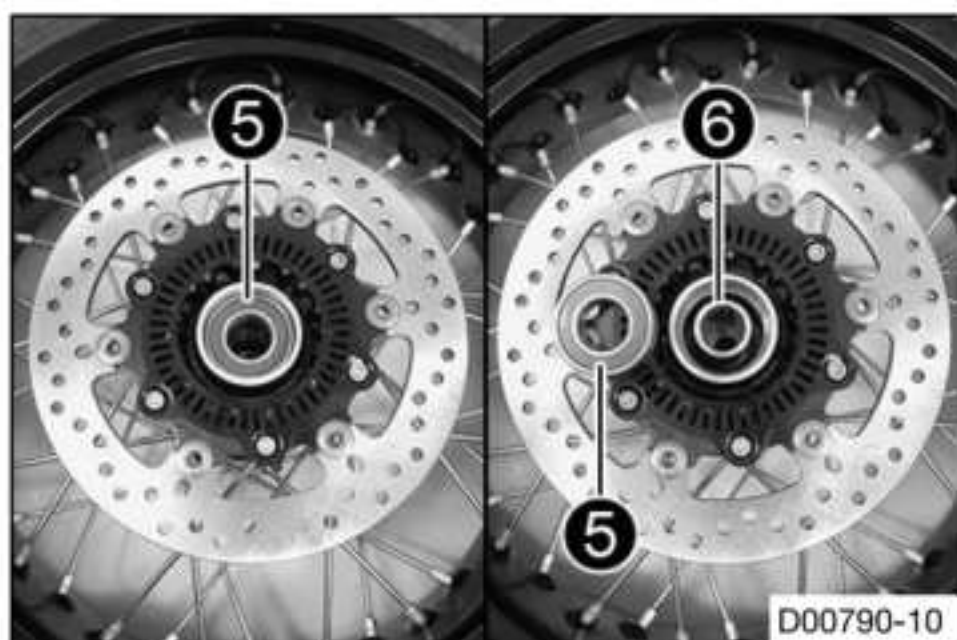
- Remove rear sprocket carrier ❶.



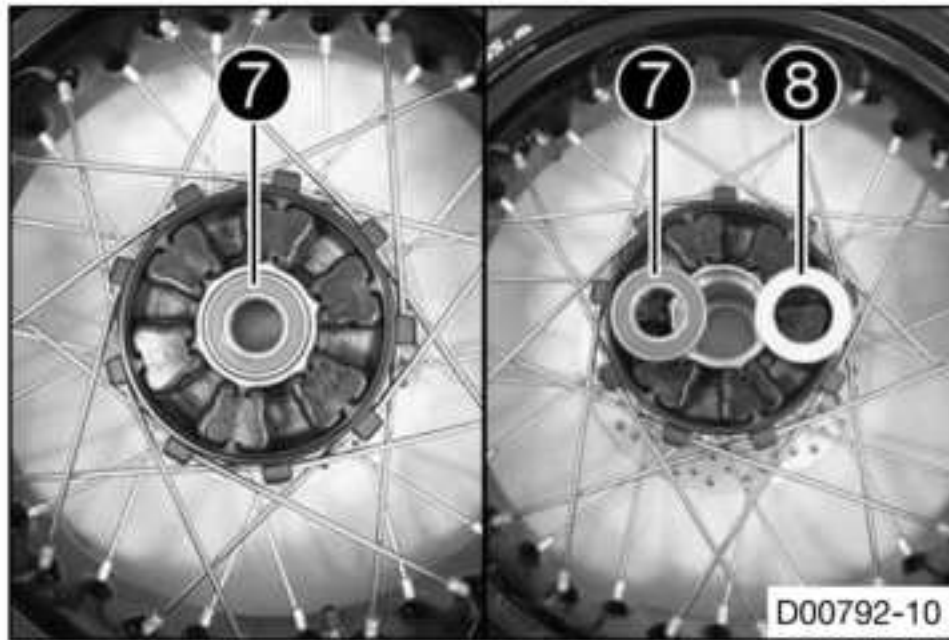
- Remove spacer ❷.



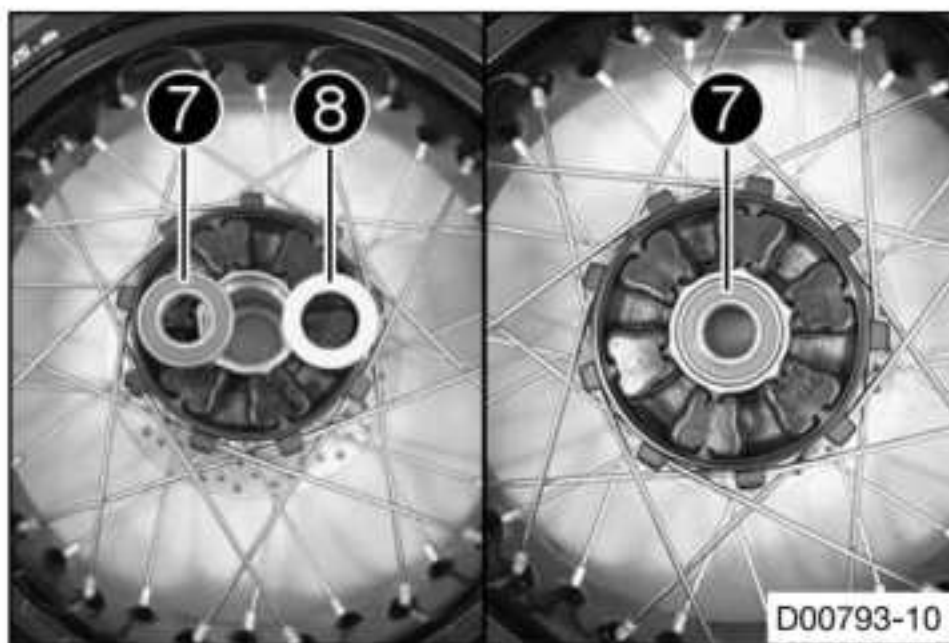
- Remove shaft seal ring ❸.
- Remove lock ring ❹.



- Using a suitable tool, press bearing ❺ out from the inside to the outside.
- Remove spacing tube ❻.



- Using a suitable tool, press bearing **7** out from the inside to the outside.
- Remove spacer washer **8**.

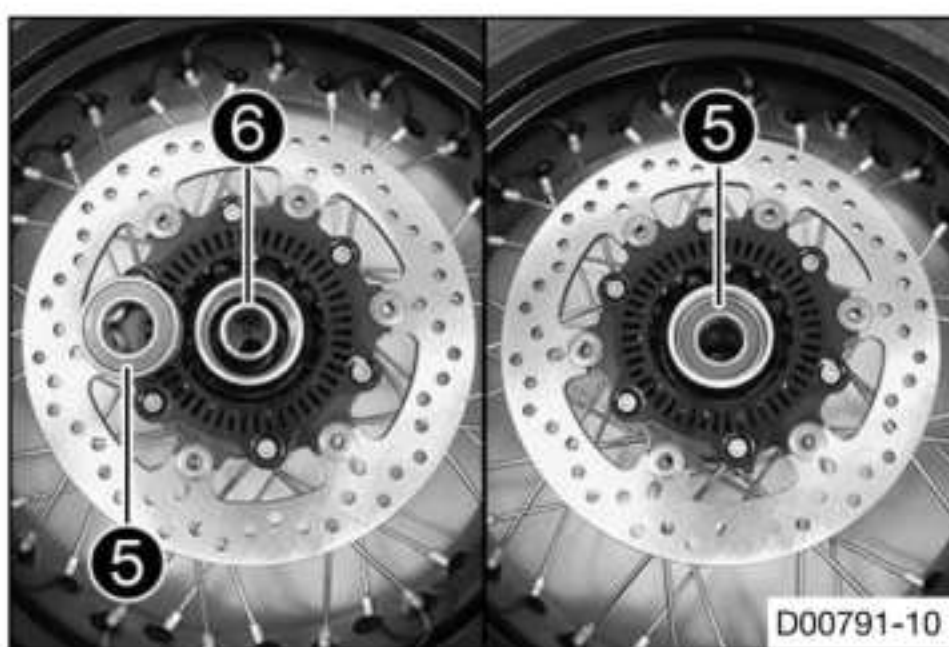


- Check spacer washer **8** for damage and wear.
 - » If the spacer washer is damaged or worn:
 - Replace the spacer washer.
- Position spacer washer **8**.
- Press new bearing **7** all the way in from the outside to the inside.



Info

Only press the bearing in via the outer bearing race otherwise the bearing will be damaged when it is pressed in.

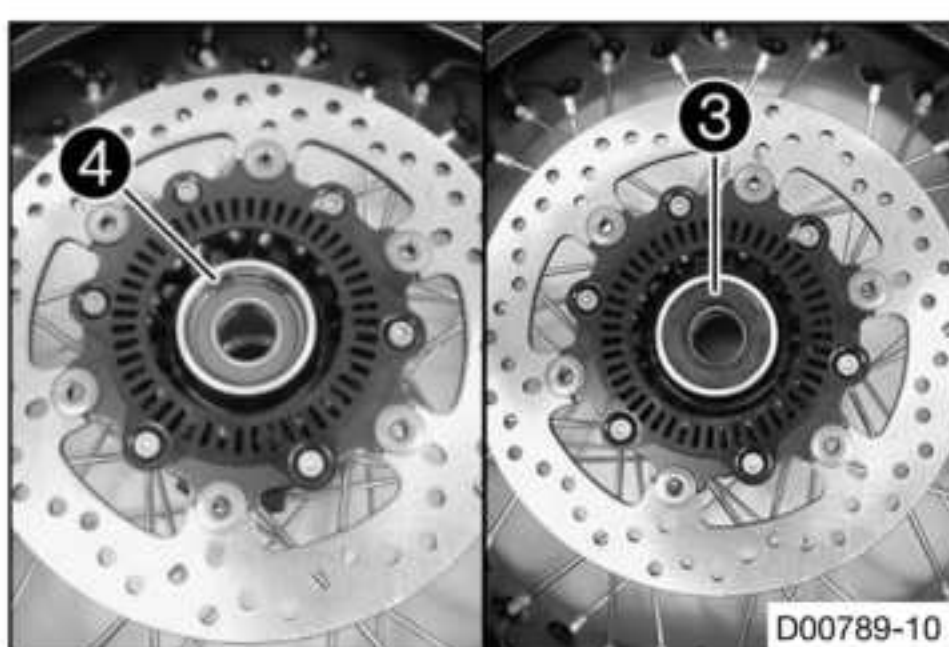


- Clean, grease, and mount spacing tube **6**.
- Long-life grease (📖 p. 378)
- Press new bearing **5** all the way in from the outside to the inside.

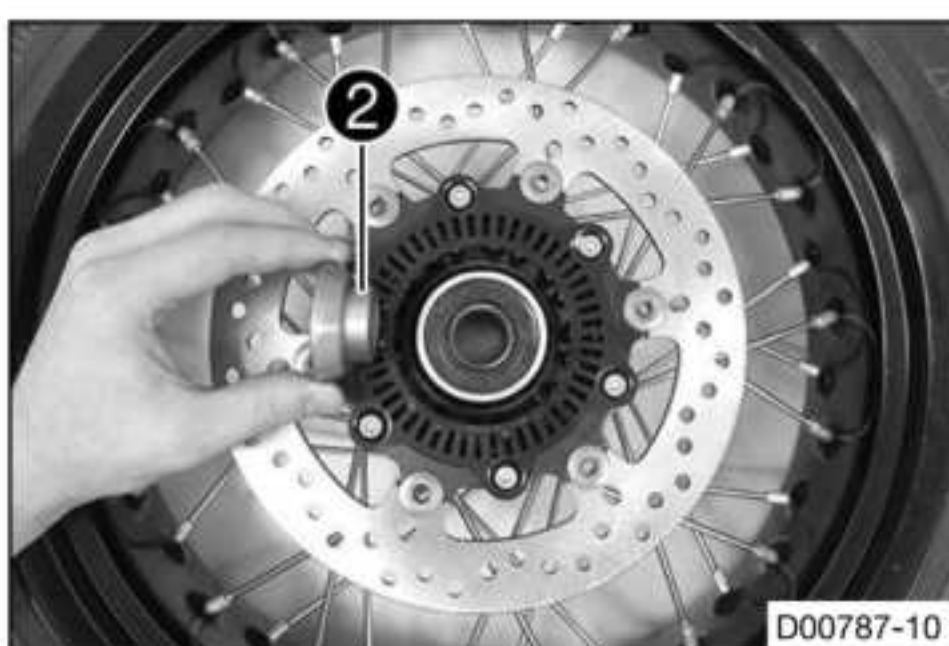


Info

Only press the bearing in via the outer bearing race otherwise the bearing will be damaged when it is pressed in.



- Mount lock ring **4**.
 - ✓ The lock ring engages audibly.
- Grease new shaft seal ring **3** and press it in until it is flush.



- Insert spacer **2**.



- Ensure that the damping rubber pieces are correctly seated.
- Mount rear sprocket carriers 1.

Finishing work

- Install the rear wheel. (p. 124)
- Remove the rear of the motorcycle from the wheel stand. (p. 13)
- Check the chain tension. (p. 130)

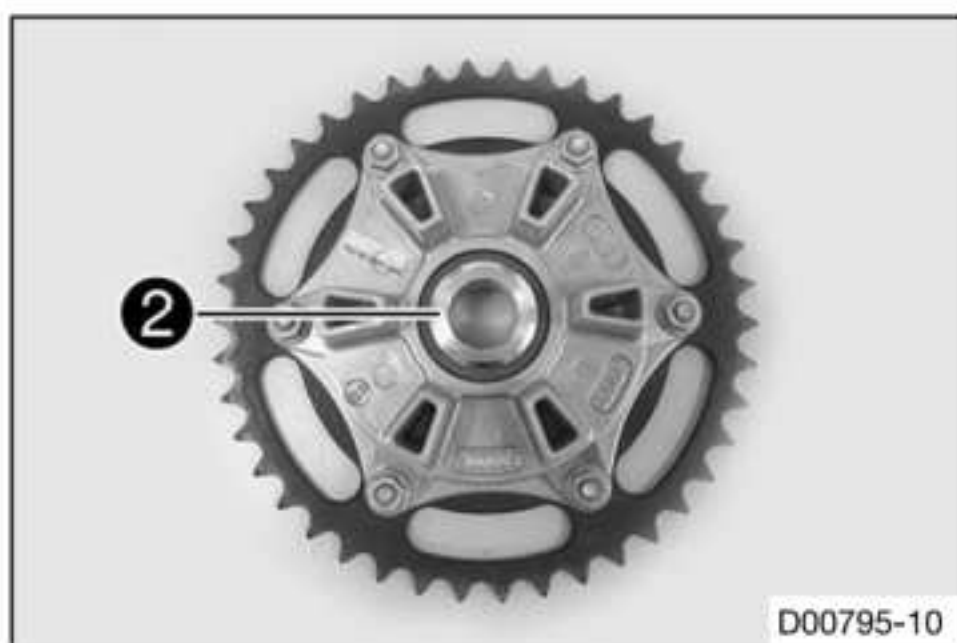
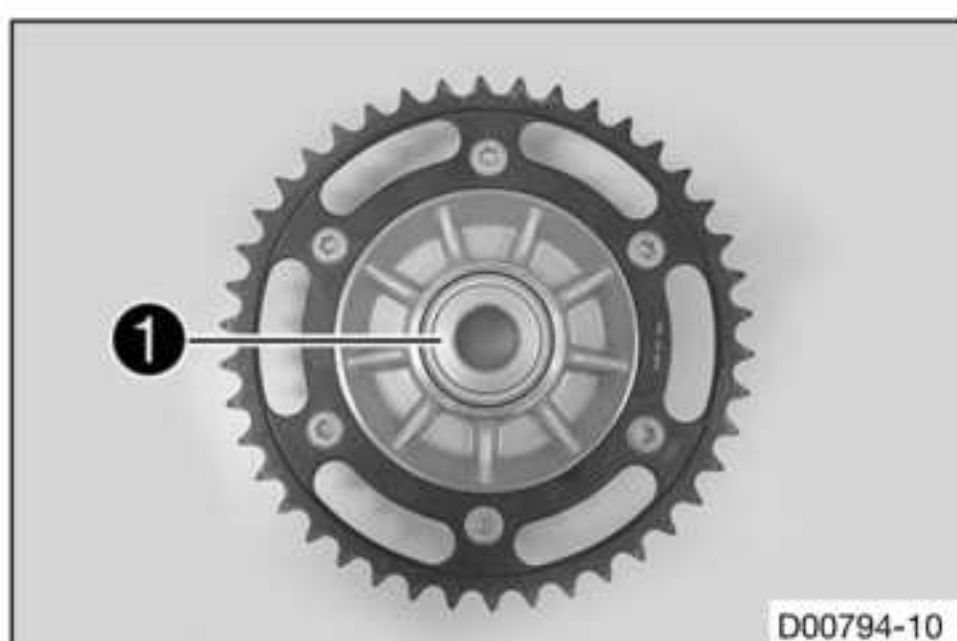
14.8.6 Changing the bearing of the rear sprocket carrier

Preparatory work

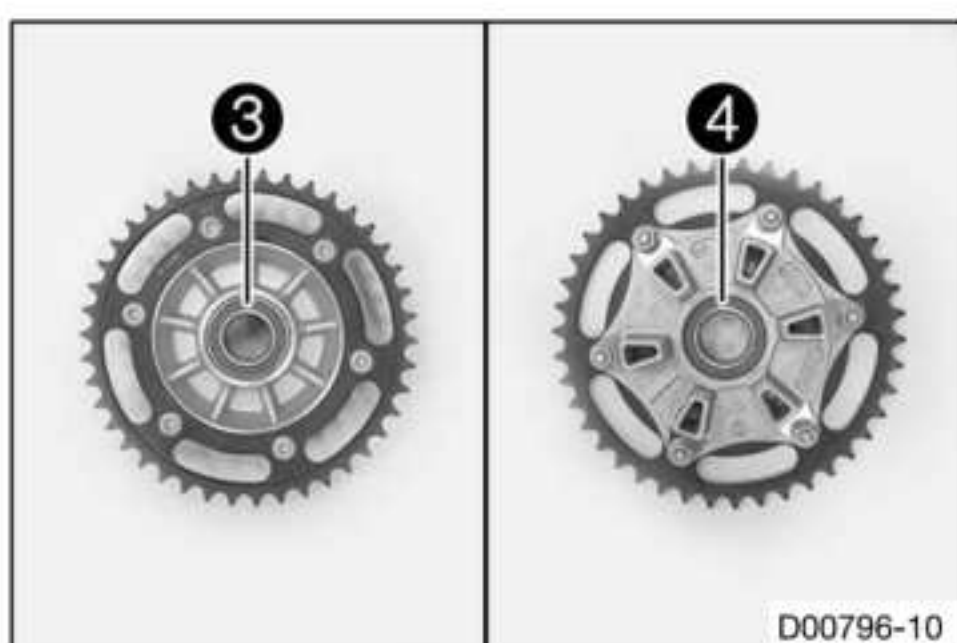
- Raise the motorcycle with the rear lifting gear. (p. 13)
- Remove the rear wheel. (p. 121)

Main work

- Remove spacer 1 with washer.



- Remove collar bushing 2.



- Using a suitable tool, press bearings 3 and 4 out from the inside to the outside.
- Press in new bearings 4 and 3 from the outside all the way to the inside.



Info

Only press the bearings in using the outer bearing race; otherwise, the bearings will be damaged when they are pressed in.