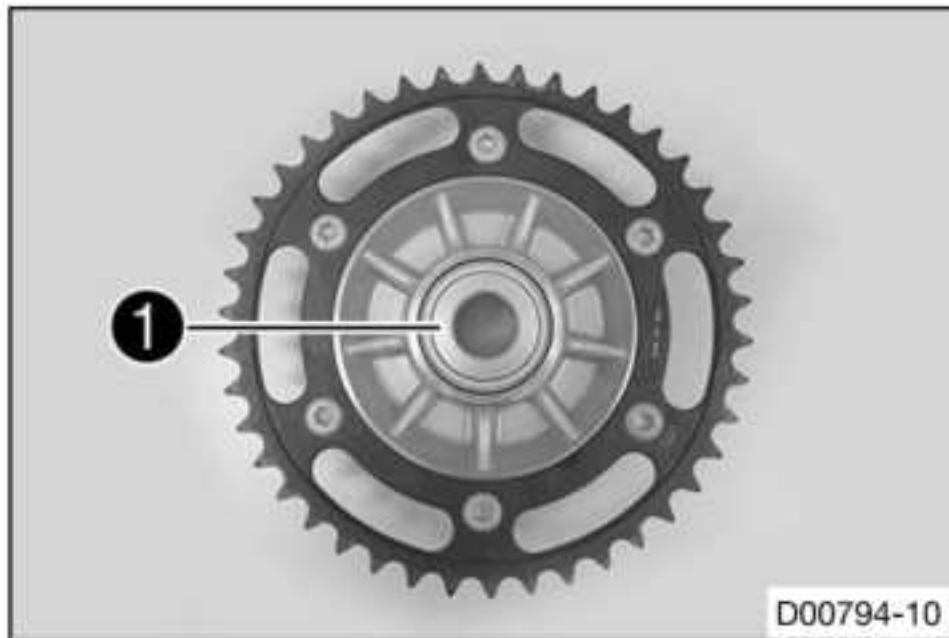


- Mount collar bushing ②.



- Mount spacer ① with washer.

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)

14.8.7 Changing the rear brake disc

Info

If the brake discs are changed, the brake linings must also be changed.

Preparatory work

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

Main work

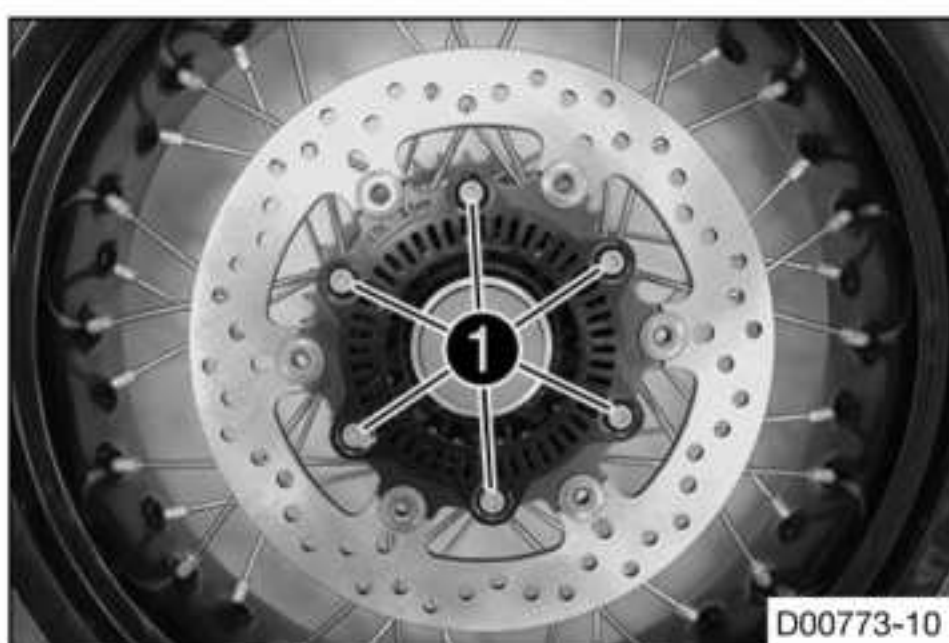
- Remove screws ①.
- Take off the ABS sensor wheel and brake disc.
- Clean the contact surface of the brake disc.
- Position the new brake disc with the label facing outward.
- Position the ABS sensor wheel.
- Mount and tighten screws ①.

Guideline


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



14.8.8 Checking the chain tension



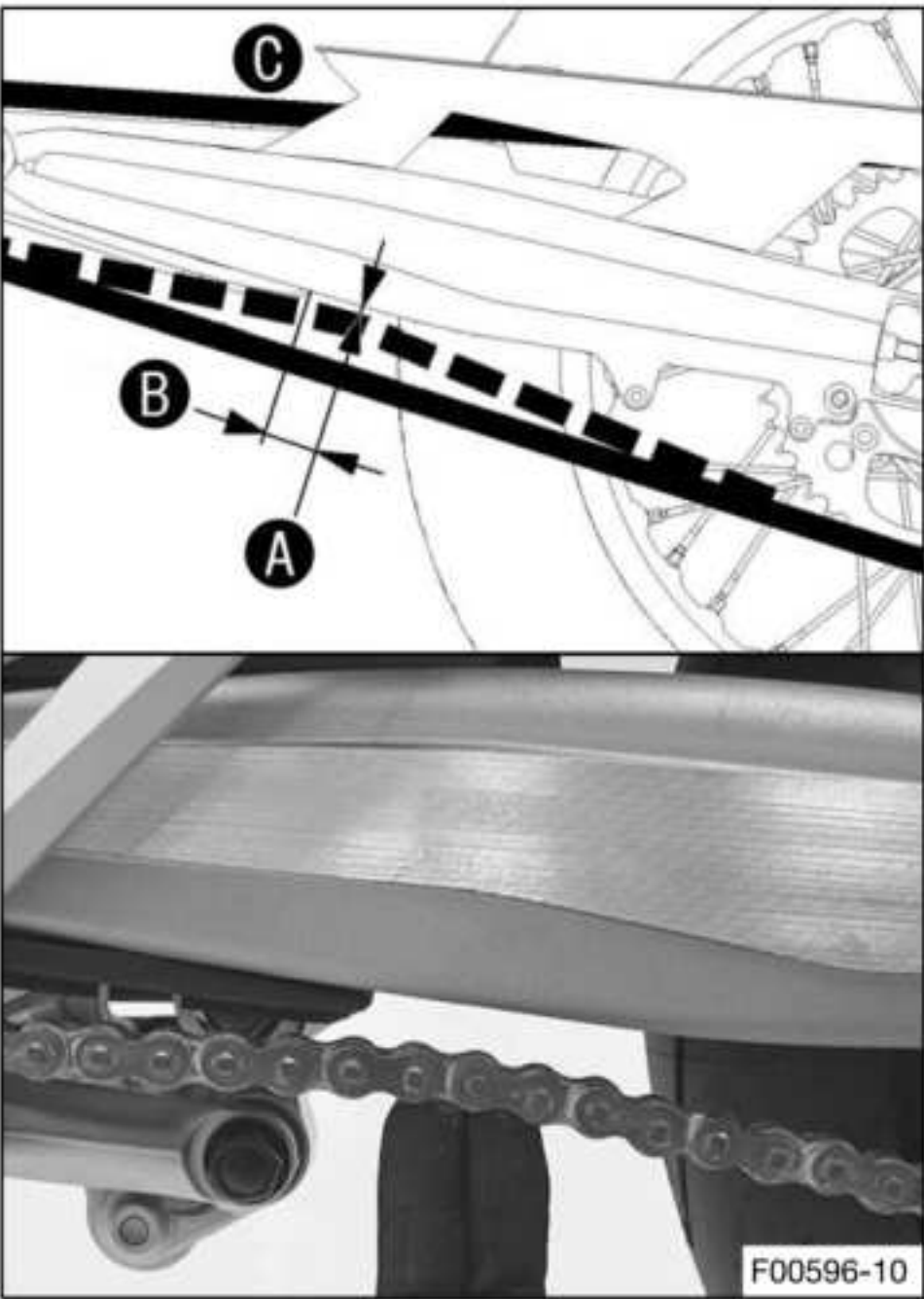
Warning

Danger of accidents Incorrect chain tension damages components and results in accidents.


If the chain is tensioned too much, the chain, engine sprocket, rear sprocket, transmission and rear wheel bearings wear more quickly. Some components may break if overloaded.

If the chain is too loose, the chain may fall off the engine sprocket or the rear sprocket. As a result, the rear wheel locks or the engine will be damaged.

- Check the chain tension regularly.
- Set the chain tension in accordance with the specification.



- Place the motorcycle onto the side stand.
- Shift the transmission to neutral position.
- Push the chain upward at a distance **B** from the chain sliding guard and determine chain tension **A**.



Info


Top chain section **C** must be taut.

Chain wear is not always even. Repeat this measurement at different chain positions.

Chain tension A	5 mm (0.2 in)
Distance B to chain sliding guard	30 mm (1.18 in)

- » If the chain tension does not meet the specification:
- Adjust the chain tension. (📖 p. 130)

14.8.9 Adjusting the chain tension



Warning

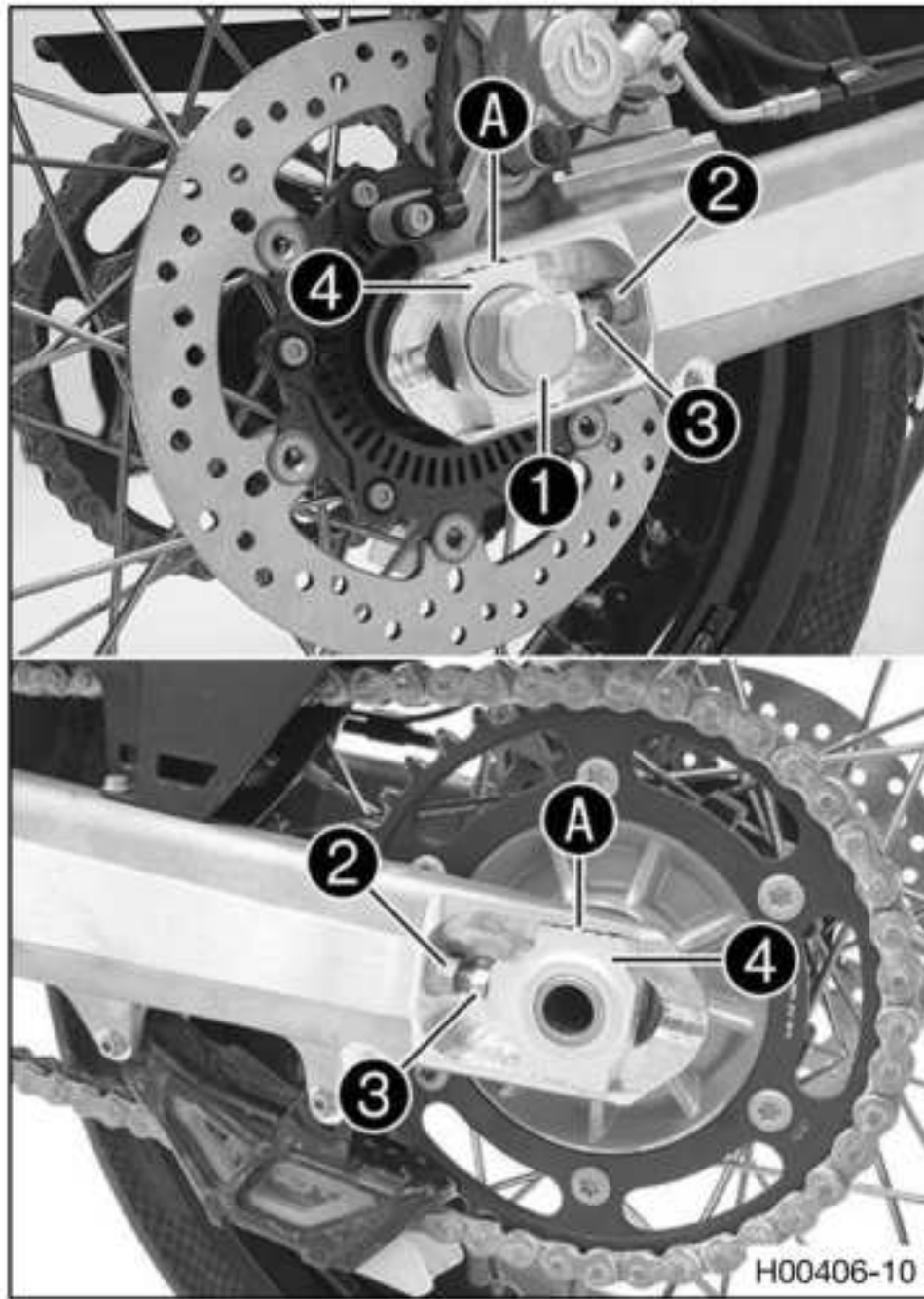
Danger of accidents Incorrect chain tension damages components and results in accidents.

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- Check the chain tension regularly.
- Set the chain tension in accordance with the specification.

- Preparatory work**
- Check the chain tension. (📖 p. 130)



Main work

- Loosen nut ①.
- Remove nuts ② on the left and right.
- Adjust the chain tension by turning adjusting screws ③ left and right.

Guideline

Chain tension	5 mm (0.2 in)
Turn the adjusting screws ③ on the left and right so that the markings on the left and right chain adjusters ④ are in the same position relative to the reference marks A. The rear wheel is then correctly aligned.	



Info

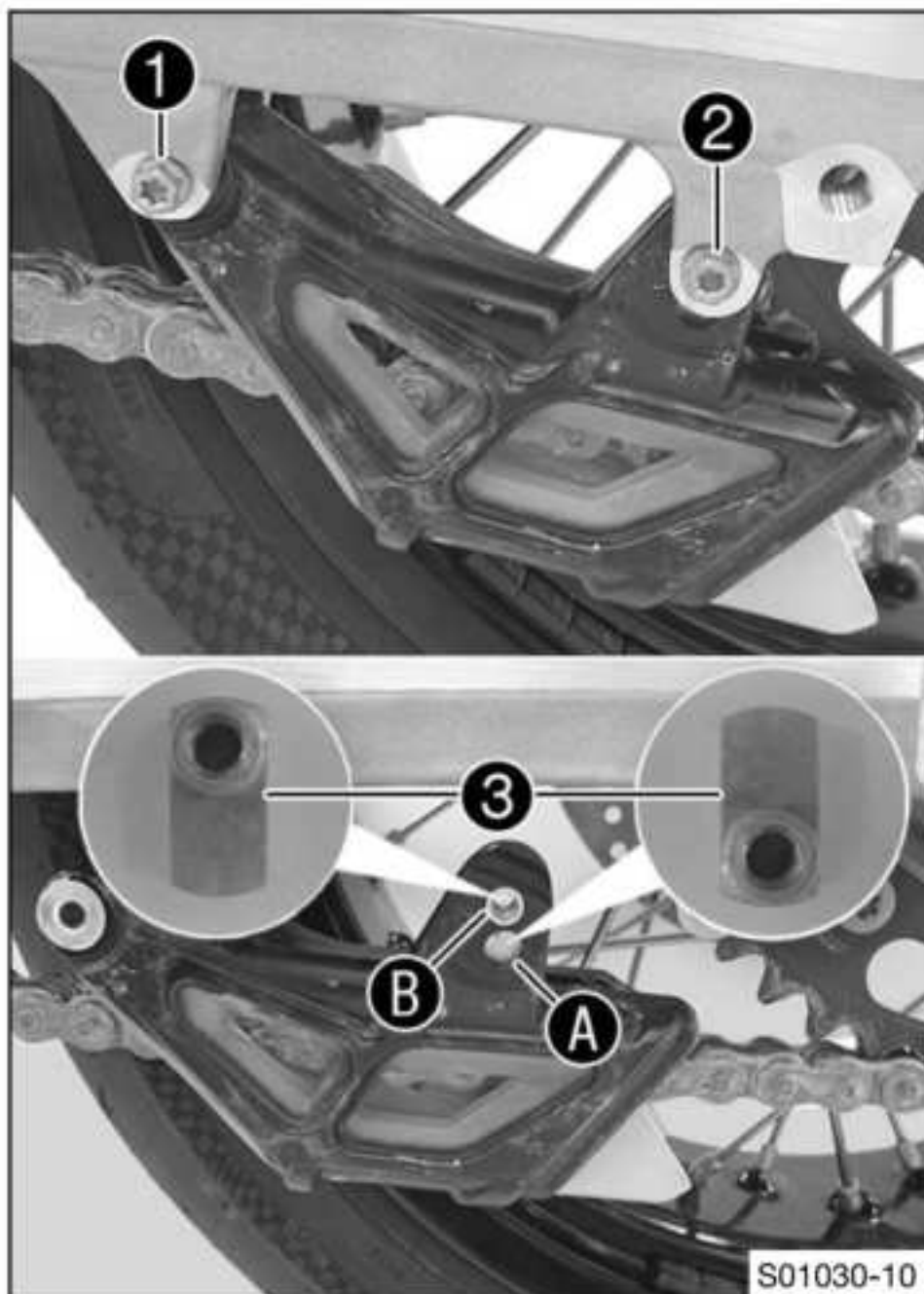
The top chain section must be taut.
Chain wear is not always even. Repeat this measurement at different chain positions.

- Tighten nuts ②.
- Make sure that chain adjusters ④ are fitted correctly on adjusting screws ③.
- Tighten nut ①.

Guideline

Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)
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14.8.10 Adjusting the chain guide



- Remove screws ① and ②. Take off the chain guide.

Condition

Number of teeth: ≤ 44 teeth

- Insert nut ③ in hole A. Position the chain guide.
- Mount and tighten screws ① and ②.

Guideline

Screw, chain guide	M6	8 Nm (5.9 lbf ft)
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Condition

Number of teeth: ≥ 45 teeth

- Insert nut ③ in hole B. Position the chain guide.
- Mount and tighten screws ① and ②.

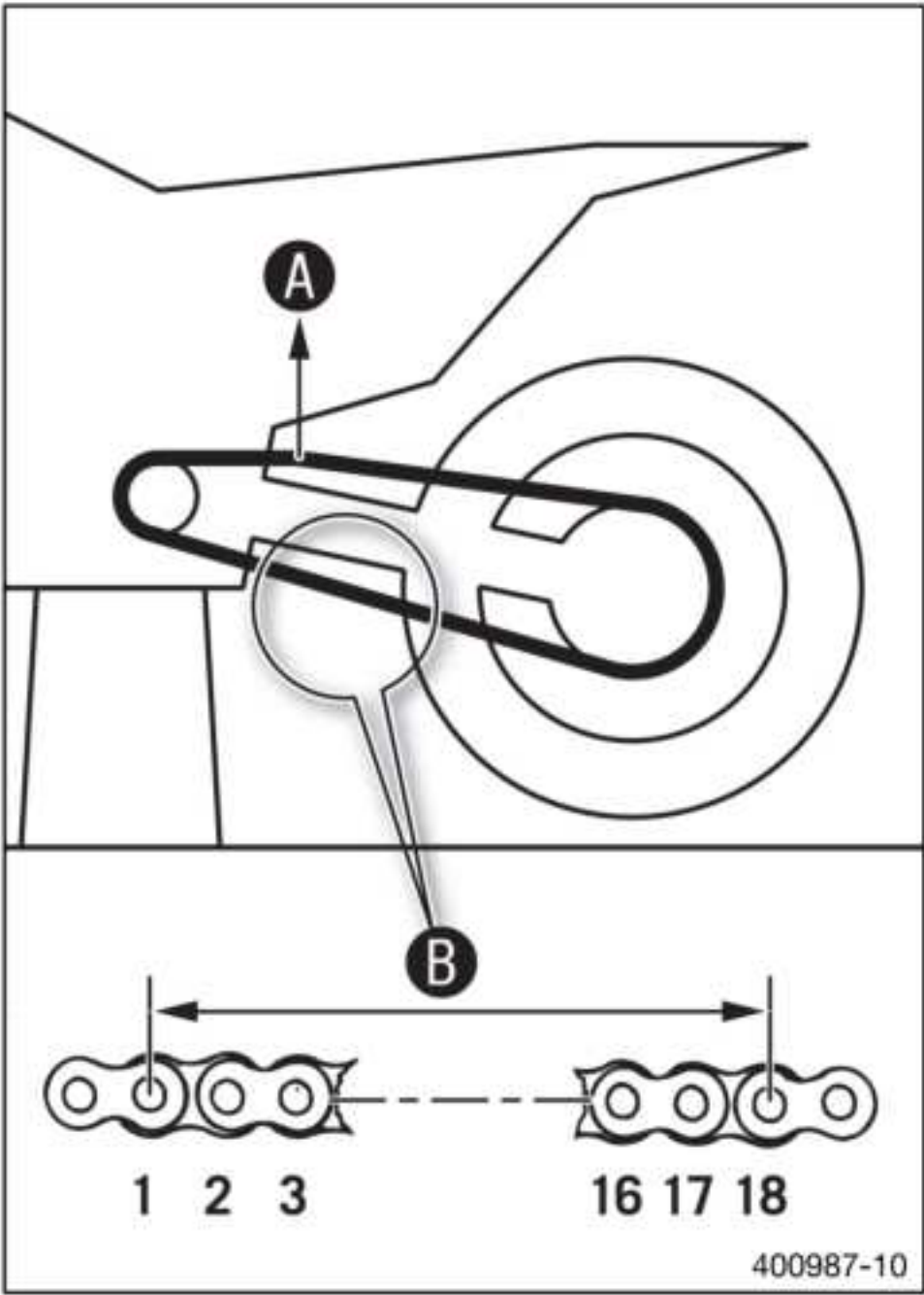
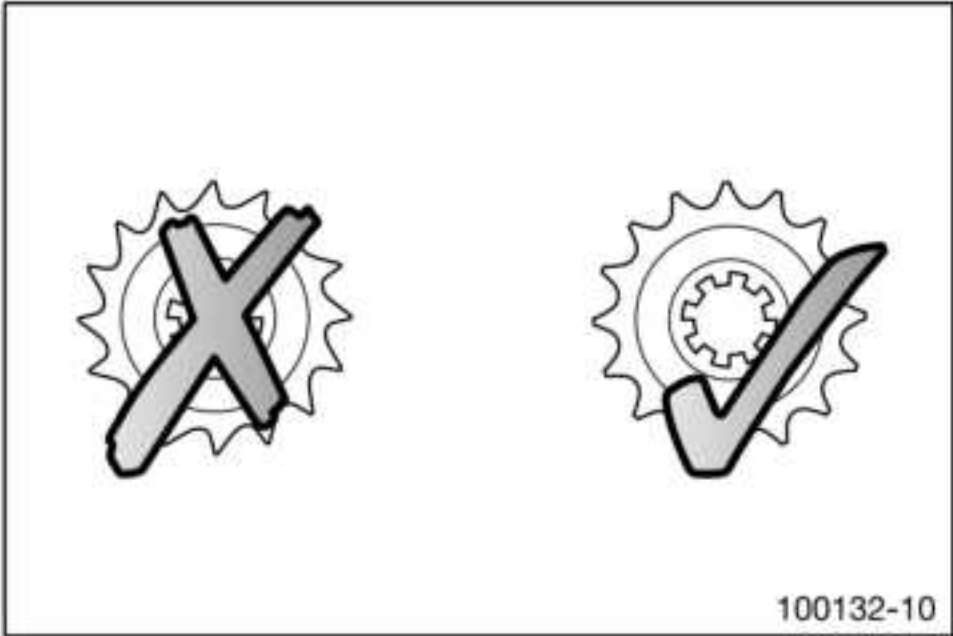
Guideline

Screw, chain guide	M6	8 Nm (5.9 lbf ft)
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14.8.11 Checking the chain, rear sprocket, engine sprocket, and chain guide

Preparatory work

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



Main work

- Shift the transmission into neutral.
- Check the rear sprocket and engine sprocket for wear.
 - » If the rear sprocket or engine sprocket is worn:
 - Change the drivetrain kit. (📖 p. 137)

i Info
The engine sprocket, rear sprocket and chain should always be replaced together.

- Pull on the top section of the chain with the specified weight **A**.

Guideline

Weight of chain wear measurement	15 kg (33 lb.)
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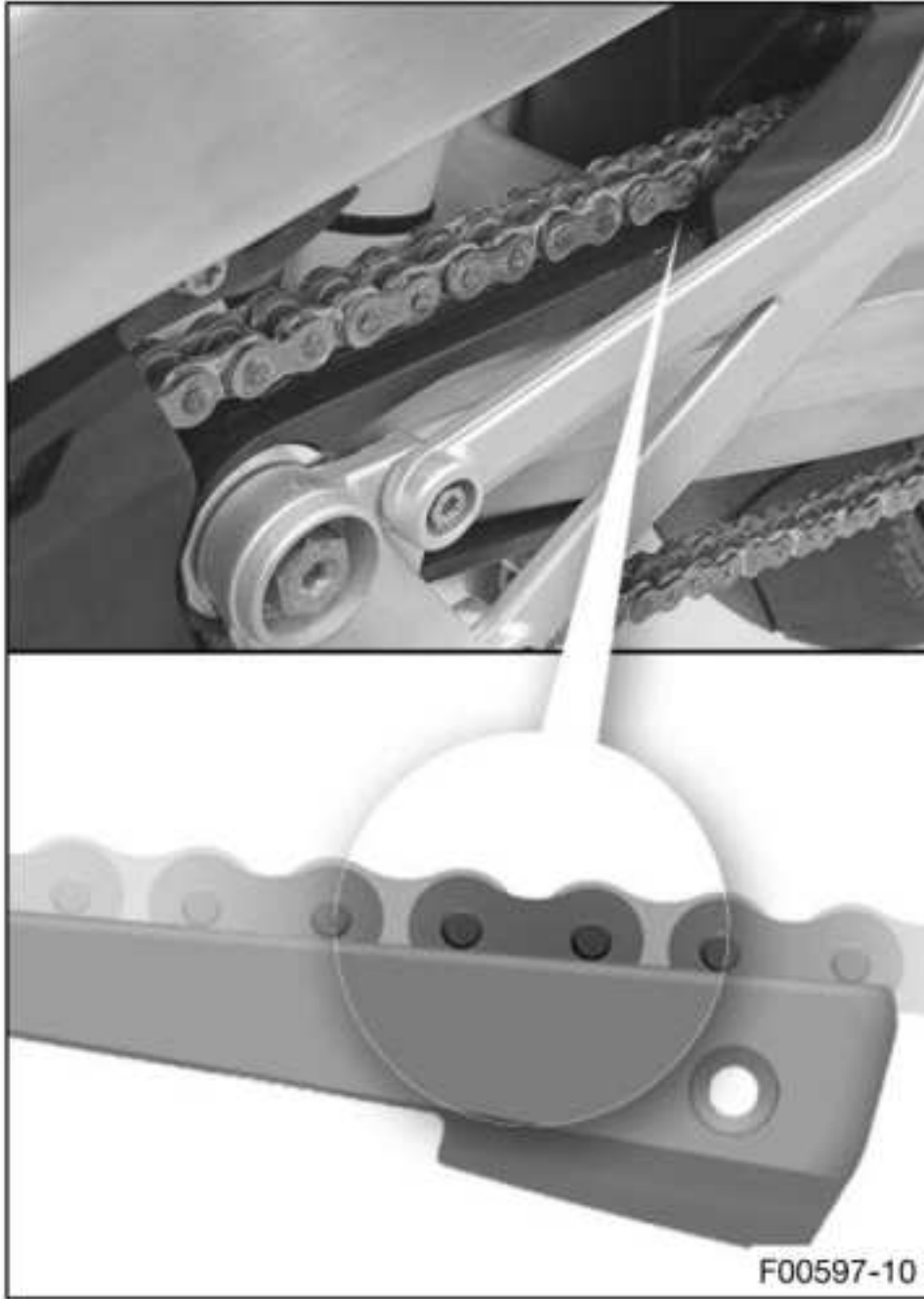
- Measure distance **B** of 18 chain rollers in the lower chain section.

i Info
Chain wear is not always even, so you should repeat this measurement at different chain positions.

Maximum distance B from 18 chain rollers at the longest chain section	272 mm (10.71 in)
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- » If distance **B** is greater than the specified measurement:
 - Change the drivetrain kit. (📖 p. 137)

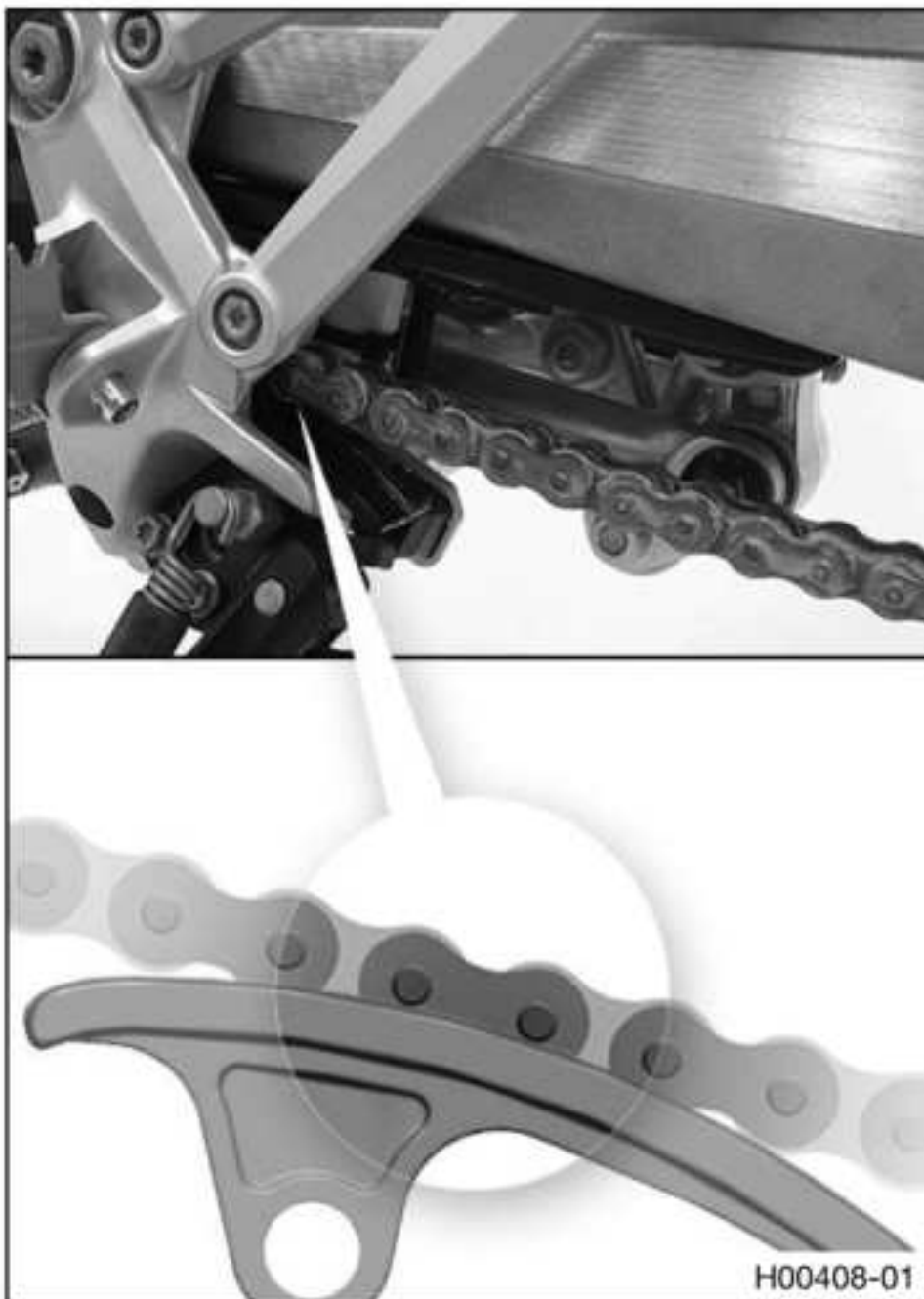
i Info
When a new chain is mounted, the rear sprocket and engine sprocket should also be changed.
New chains wear out faster on an old, worn rear sprocket or engine sprocket.



- Check the chain sliding guard for wear.
 - » If the lower edge of the chain pins is in line with, or below, the chain sliding guard:
 - Replace the chain sliding guard.
- Check that the chain sliding guard is firmly seated.
 - » If the chain sliding guard is loose:
 - Tighten the screws on the chain sliding guard.

Guideline

Screw, chain sliding guard	M6	8 Nm (5.9 lbf ft) Loctite® 243™
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- Check the chain sliding piece for wear.
 - » If the lower edge of the chain pins is in line with or below the chain sliding piece:
 - Change the chain sliding piece.
- Check that the chain sliding piece is firmly seated.
 - » If the chain sliding piece is loose:
 - Tighten the screw on the chain sliding piece.

Guideline

Screw, chain sliding piece	M8	15 Nm (11.1 lbf ft)
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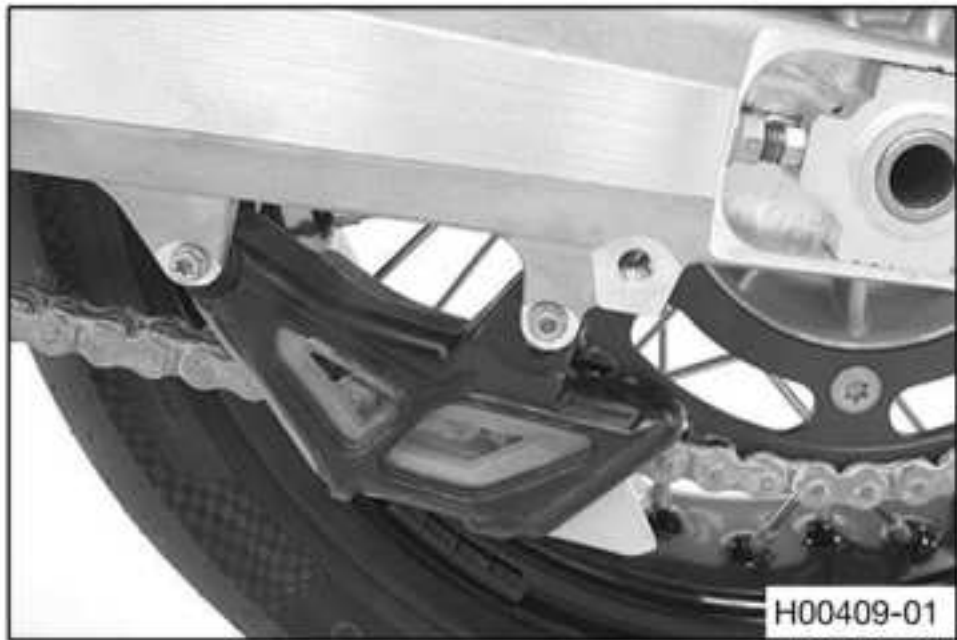
- Check the chain guide for wear.



Info

Wear can be seen on the front of the chain guide.

- » If the light part of the chain guide is worn:
 - Change the chain guide.



- Check that the chain guide is firmly seated.
 - » If the chain guide is loose:
 - Tighten the screws on the chain guide.

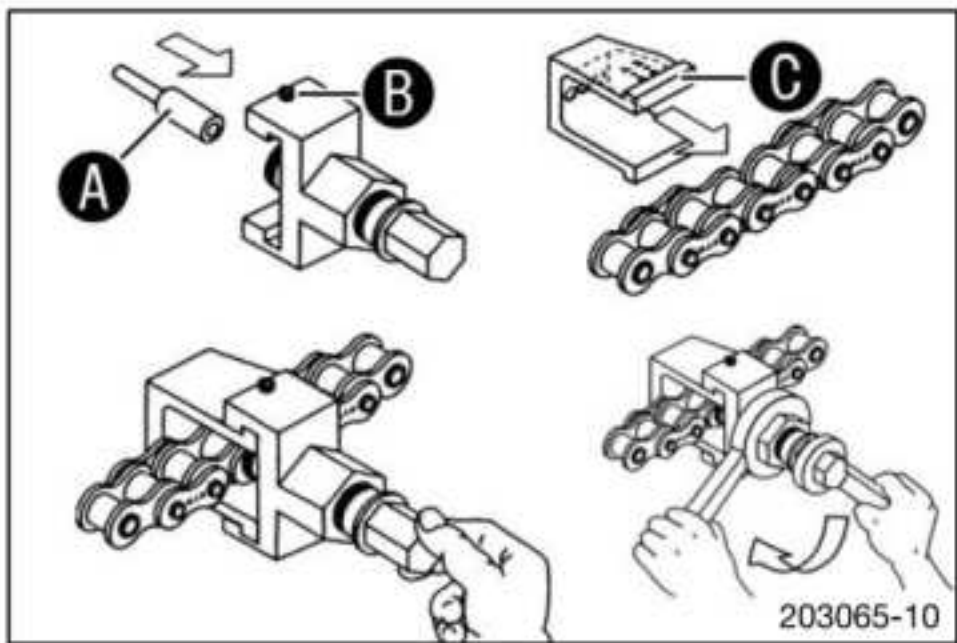
Guideline

Screw, chain guide	M6	8 Nm (5.9 lbf ft)
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Finishing work

- Remove the rear of the motorcycle from the wheel stand. (p. 13)

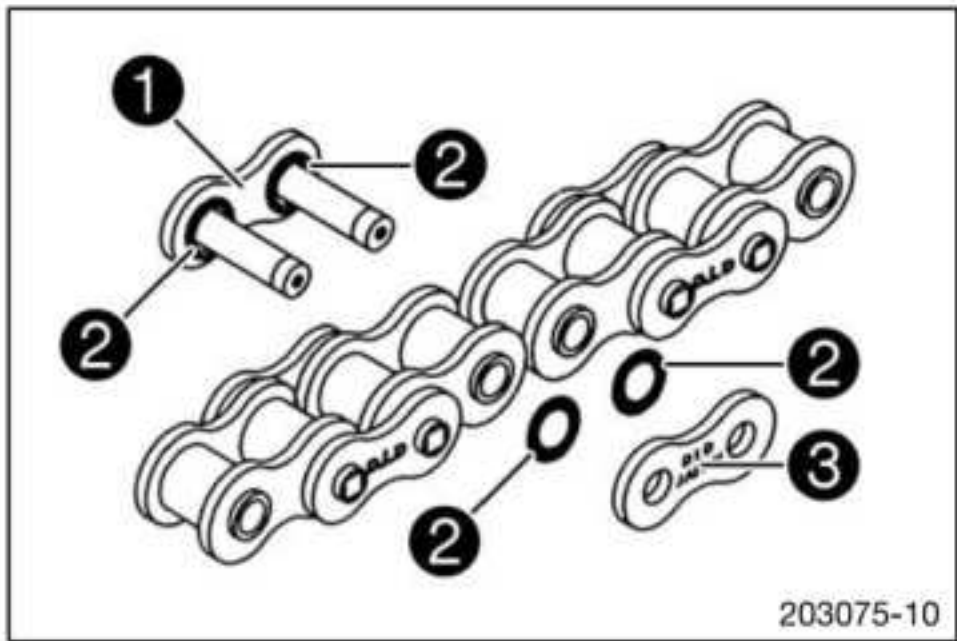
14.8.12 Opening the chain



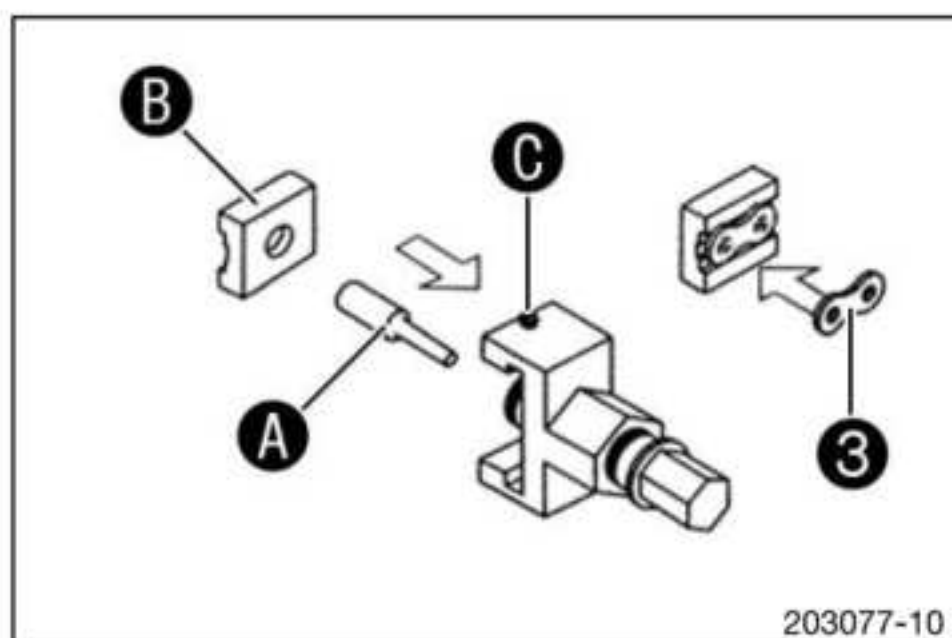
- Mount press drift **A** with the larger diameter in the spindle of the special tool. Turn the spindle counterclockwise.

Chain rivet tool (60029020000) (p. 385)
- Make the connecting link of the chain accessible. Fret the riveting point.
- Position the special tool with the press drift on one of the 2 pins of the connecting link of the chain.
 - ✓ Locking screw **B** points upwards.
- Position retaining clamp **C** of the special tool on the chain from the rear.
 - ✓ Markings **A** and **B** point upwards.
- Slide retaining clamp **C** of the special tool into the pressing tool.
 - ✓ The arrow of marking **A** points to locking screw **B**.
- Screw the locking screw hand-tight as far as it will go.
 - ✓ The retaining clamp is fixed.
- Hold the special tool and screw in the spindle.
 - ✓ The chain pin is pressed out through the retaining clamp drill hole.
- Unscrew the locking screw and remove the special tool.
- Repeat the process on the second pin of the chain link.

14.8.13 Riveting the chain



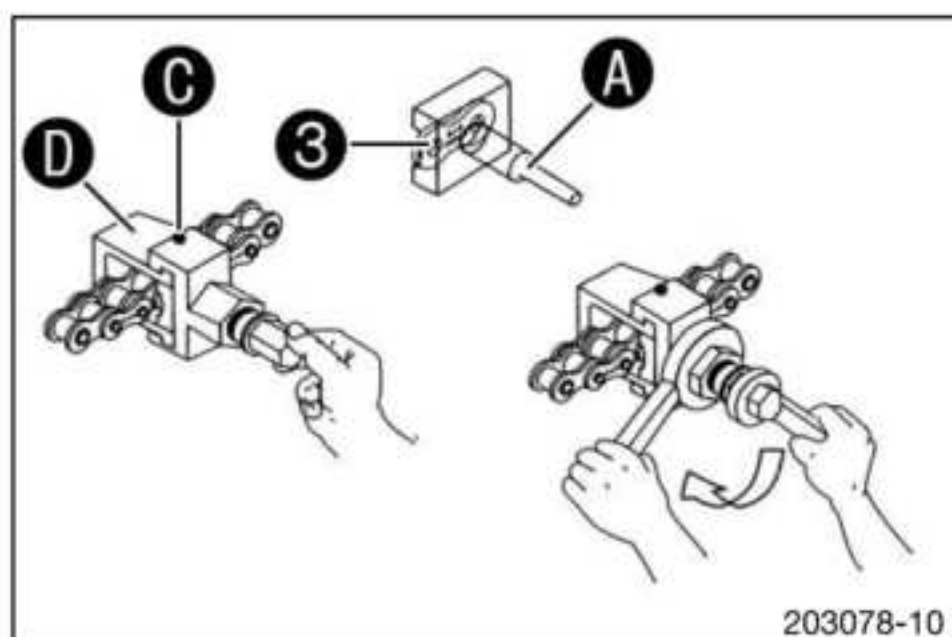
- Grease new connecting link **1** and position an X-ring **2** on each pin.
- Connect the chain ends with a connecting link.
- Position another X-ring **2** on each pin.



- Mount press drift **A** with the smaller diameter in the spindle of the special tool. Turn the spindle counterclockwise.

Chain rivet tool (60029020000) (p. 385)

- Position press plate **B** of the special tool on the press drift.
- Position chain joint plate **3** in the press plate.



- Position the special tool on the chain.
 - ✓ Locking screw **C** points upwards.
- Position retaining clamp **D** of the special tool on the chain from the rear.
 - ✓ Markings **A** and **B** point upwards.
- Slide retaining clamp **D** of the special tool into the pressing tool.
 - ✓ The arrow of marking **A** points to locking screw **C**.
- Screw the locking screw hand-tight as far as it will go.
 - ✓ The retaining clamp is fixed.
- Hold the special tool and screw in the spindle.
 - ✓ Press drift **A** of the special tool presses against the center of the chain joint plate **3**.
 - ✓ The chain joint plate is pressed on.
- Unscrew the locking screw and remove the special tool.
- Rivet the two pins of the connecting link with special tool.

Chain rivet tool (60029020000) (p. 385)

14.8.14 Cleaning the chain



Warning

Danger of accidents Lubricants on the tires reduces the road grip.

- Remove lubricants from the tires using a suitable cleaning agent.



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.



Note

Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

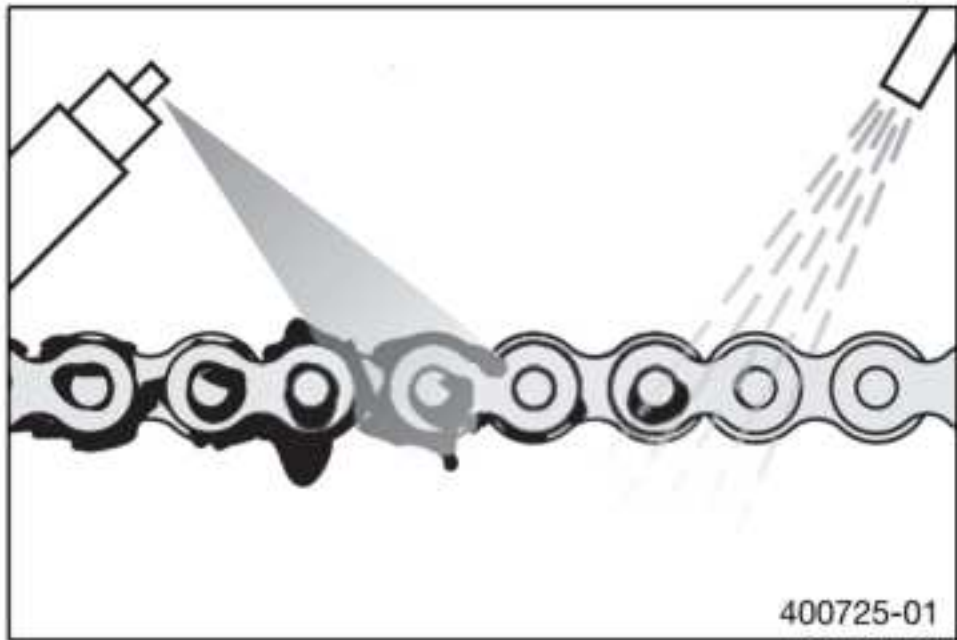


Info

The service life of the chain depends largely on its maintenance.

Preparatory work

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



Main work

- Rinse off loose dirt with a soft jet of water.
- Remove old grease residue with chain cleaner.

Chain cleaner (📖 p. 378)

- After drying, apply chain spray.

Street chain spray (📖 p. 379)

Finishing work

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

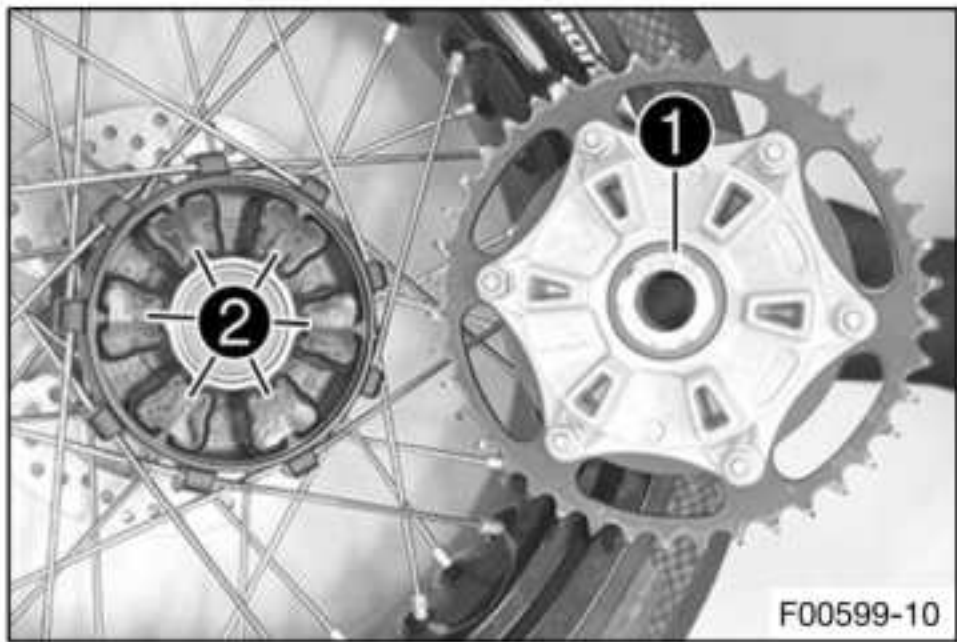
14.8.15 Checking the rear hub damping rubber pieces

i Info

The engine power is transmitted from the rear sprocket to the rear wheel via the 6 damping rubber pieces. They eventually wear out during operation. If the damping rubber pieces are not changed in time, the rear sprocket carrier and the rear hub will be damaged.

Preparatory work

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



Main work

- Check bearing ①.
 - » If the bearing is damaged or worn:
 - Change the bearing of the rear sprocket carrier. (📖 p. 128)
- Check the damping rubber pieces ② of the rear hub for damage and wear.
 - » If the damping rubber pieces of the rear hub are damaged or worn:
 - Change all the damping rubber pieces of the rear hub.
- Lay the rear wheel on a workbench with the rear sprocket facing upwards and insert the wheel spindle in the hub.
- To check play A, hold the rear wheel tight and try to turn the rear sprocket with your hand.



i Info

Measure the play on the outside of the rear sprocket.

Play of damping rubber pieces on rear wheel	≤ 5 mm (≤ 0.2 in)
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- » If clearance A is larger than the specified value:
 - Change all the damping rubber pieces of the rear hub.

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)



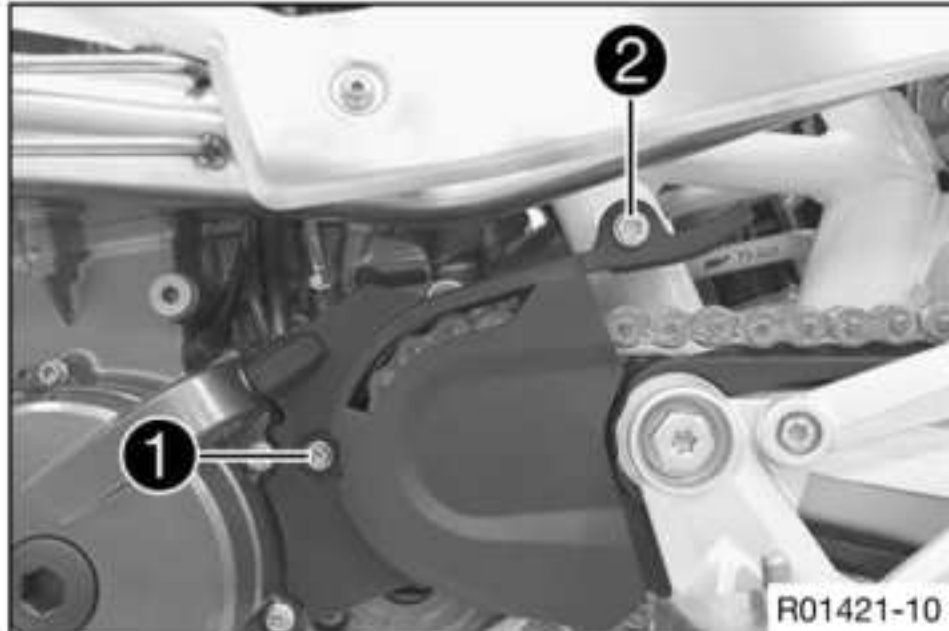
14.8.16 Changing the drivetrain kit

Preparatory work

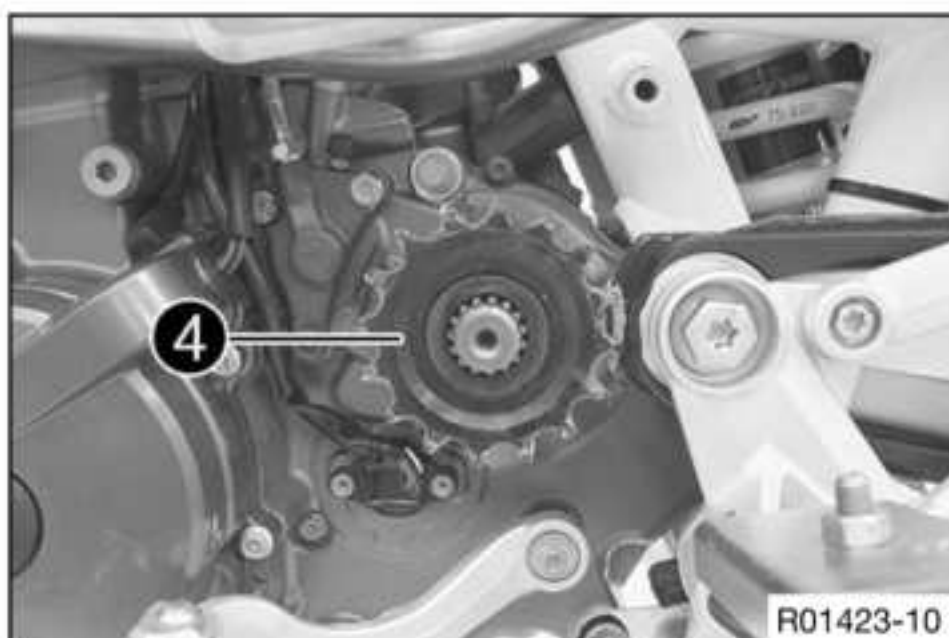
- Raise the motorcycle with the work stand. (📖 p. 14)

Main work

- Remove screws ① and ②.
- Take off the engine sprocket cover.



- Bend up lock washer ③.
- Have an assistant operate the rear brake.
- Remove the nut with the lock washer.
- Remove the rear wheel using a work stand. (📖 p. 120)



- Open the chain. (📖 p. 134)



Info

Cover the components to protect them against damage.

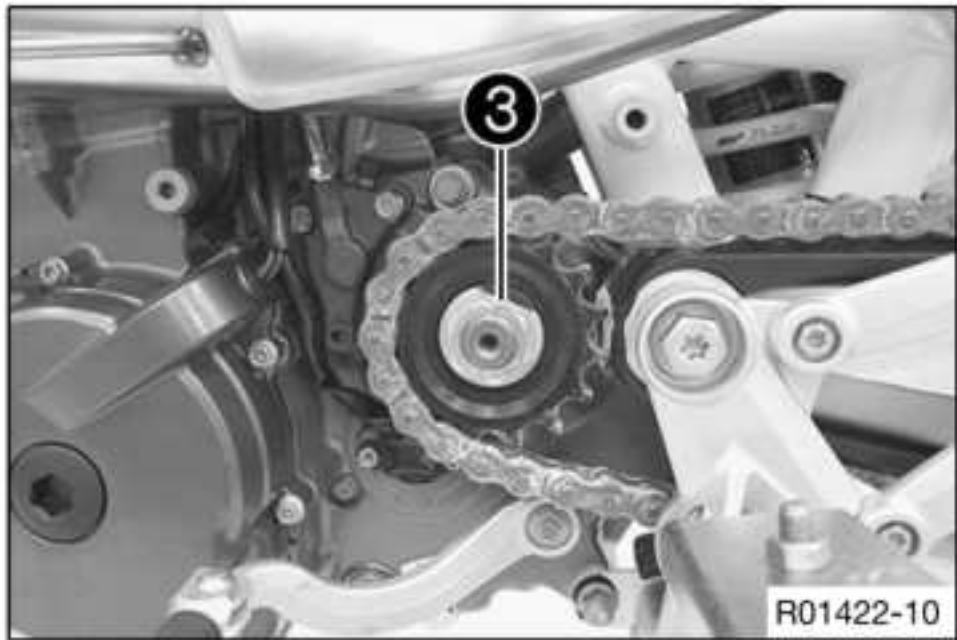
- Remove engine sprocket ④.
- Slide new engine sprocket ④ onto the main shaft.
- Mount the new chain.
- Rivet the chain. (📖 p. 134)
- Remove fittings ⑤. Take off the rear sprocket.
- Position the new rear sprocket. Mount and tighten the fittings.

Guideline

Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft) Loctite®2701™
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- Install the rear wheel using a work stand. (📖 p. 122)



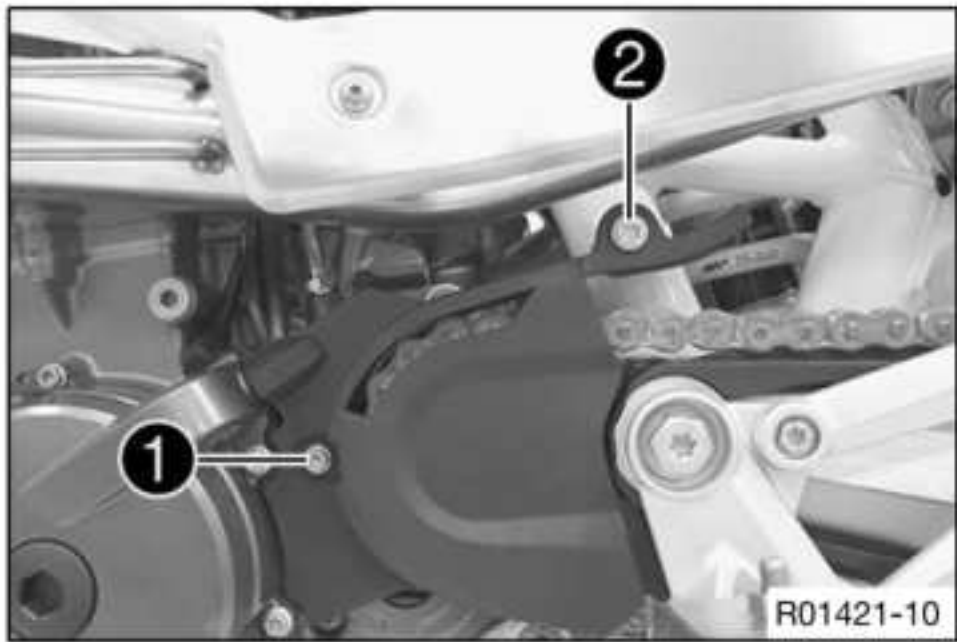


- Have an assistant operate the rear brake.
- Mount and tighten nut with new lock washer ③.

Guideline

Nut, engine sprocket	M20x1.5	80 Nm (59 lbf ft) Loctite®243™
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- Secure the nut with the lock washer.



- Position the engine sprocket cover.
- Mount and tighten screw ①.

Guideline

Screw, clutch slave cylinder	M6x40	10 Nm (7.4 lbf ft) Loctite®243™
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- Mount and tighten screw ②.

Guideline

Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)
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Finishing work

- Remove the motorcycle from the work stand. (📖 p. 15)

