

- Lubricate the upper edge of the piston rod.

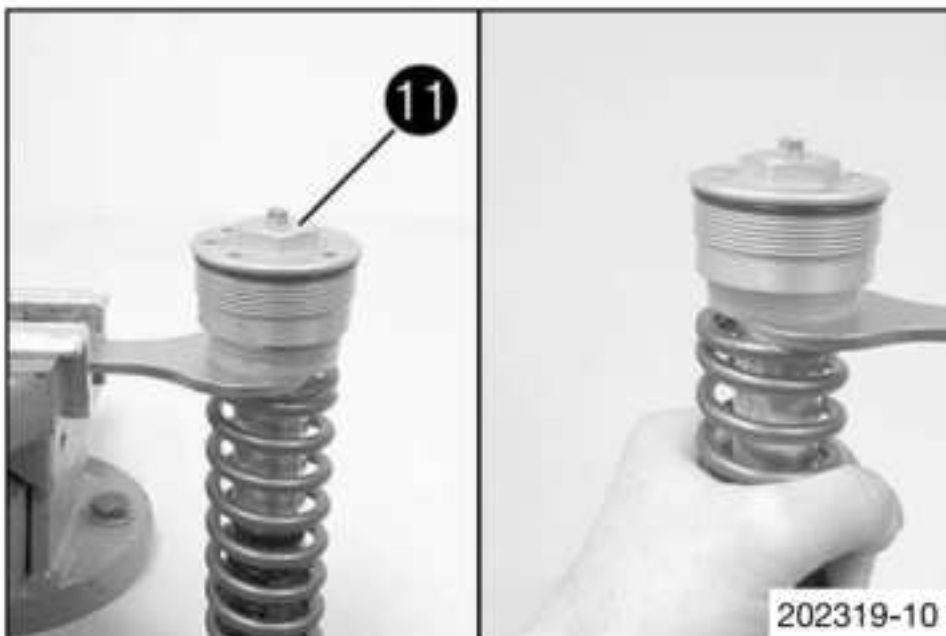
Lubricant (T158) (📖 p. 378)

- Mount the Preload Adjuster 11 with the preload spacers onto the piston rod.



## Info

The Preload Adjuster must be screwed to the stop before the piston rod starts to turn. If the thread on the piston rod is tight, it must be held to keep it from turning. If the Preload Adjuster is not screwed on all the way to the stop, the rebound damping adjustment will not work correctly.



- Tighten the Preload Adjuster 11.

## Guideline

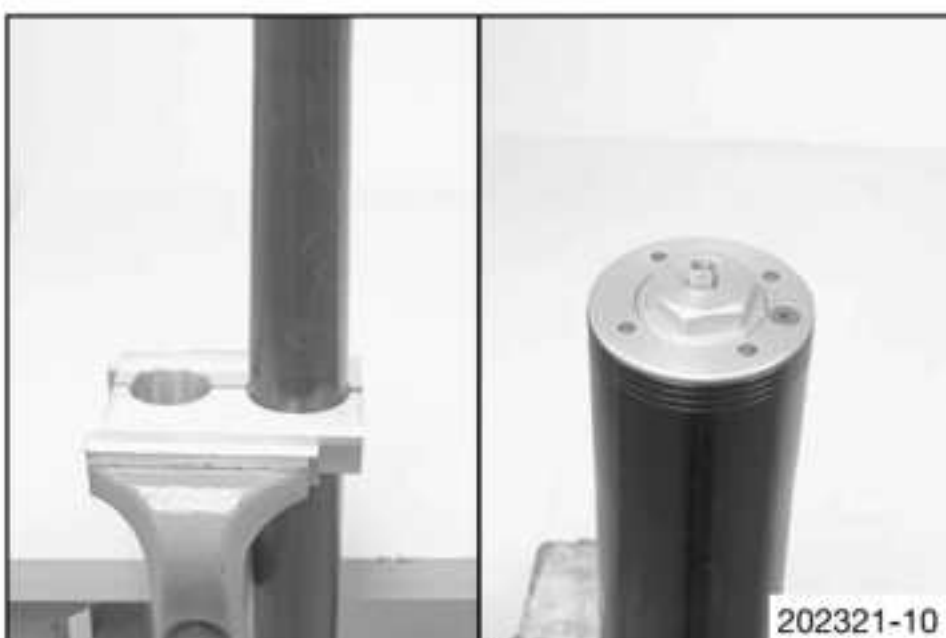
Nut, piston rod on screw cover	M12x1	25 Nm (18.4 lbf ft)
--------------------------------	-------	---------------------

- Release the special tool. Pull the spring downward. Remove the special tool.



- Clamp the fork vertically.
- Fill with fork oil.

Fork oil per fork leg	640 ml (21.64 fl. oz.)	Fork oil (SAE 4) (48601166S1) (📖 p. 377)
-----------------------	---------------------------	--



- Push the outside fork tube upwards.
- Clamp the fork in the area of the lower triple clamp.

Clamping stand (T1403S) (📖 p. 398)

- Lubricate O-ring of the Preload Adjuster.

Lubricant (T14034) (📖 p. 378)

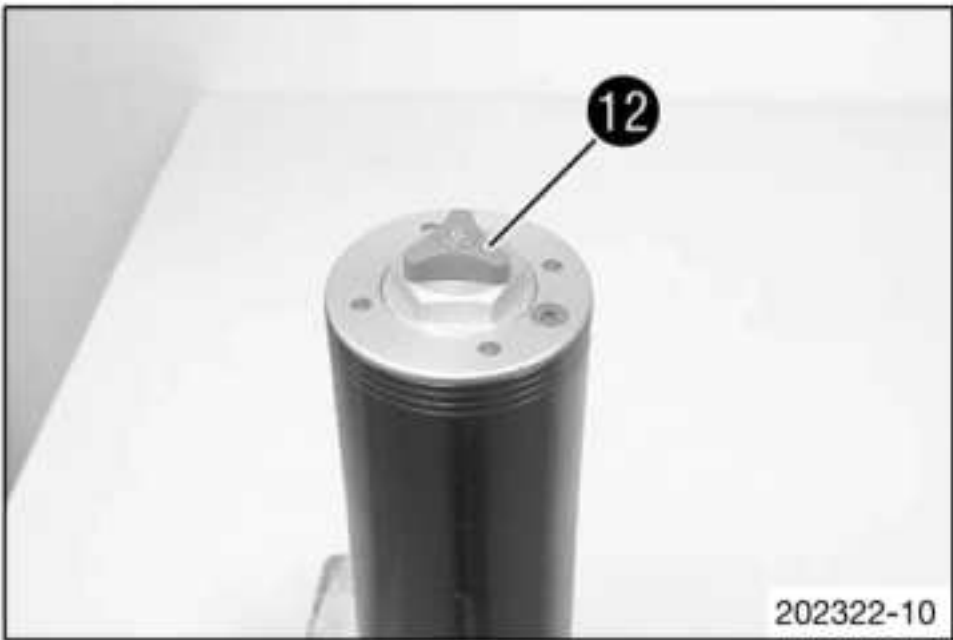
- Mount and tighten the Preload Adjuster.

## Guideline

Screw cap on the outside fork tube	M47x1.5	40 Nm (29.5 lbf ft)
------------------------------------	---------	---------------------

Pin wrench (T103) (📖 p. 396)

# 6 FORK, TRIPLE CLAMP



- Mount adjuster 12; mount and tighten the screw.

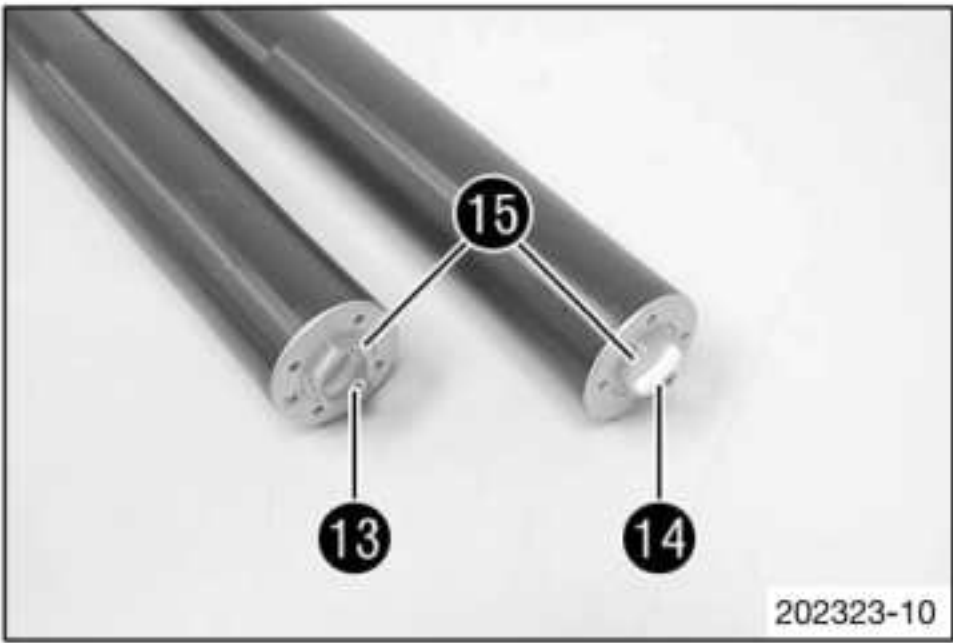
Guideline

Adapter	M4x0.5	1.5 Nm (1.11 lbf ft)
---------	--------	----------------------



### Info

Compression damping side: white adjuster, axle clamp marked **L**.  
Rebound damping side: red adjuster, axle clamp marked **R**.



### Alternative 1

- Turn the adjusting screw of rebound 13 and the adjusting screw of compression damping 14 clockwise as far as possible.
- Turn counterclockwise by the number of clicks corresponding to the fork type.

Guideline

Rebound damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks
Compression damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks

- Turn spring preload 15 clockwise all the way.
- Turn counterclockwise by the number of rotations corresponding to the fork type.

Guideline

Spring preload - Preload Adjuster	
Comfort	2 turns
Standard	5 turns
Sport	5 turns
Full payload	8 turns



## Alternative 2



### Warning

**Danger of accident** Modifications to the suspension setting may seriously alter the handling characteristic.

Extreme modifications to the suspension setting may cause a serious deterioration in the handling characteristic and overload components.

- Only make adjustments within the recommended range.
- Ride slowly to start with after making adjustments to get the feel of the new handling characteristic.

- Turn the adjusting screws to the position they were in before removing.



## 6.11 Checking steering head bearing play



### Warning

**Danger of accidents** Incorrect steering head bearing play impairs the handling characteristic and damages components.

- Correct incorrect steering head bearing play immediately.



### Info

If the vehicle is operated for a lengthy period with play in the steering head bearing, the bearings and the bearing seats in the frame can become damaged over time.

### Preparatory work

- Raise the motorcycle with the work stand. (📖 p. 14)
- Place a load on rear of vehicle.
- ✓ The front wheel is not in contact with the ground.

### Main work

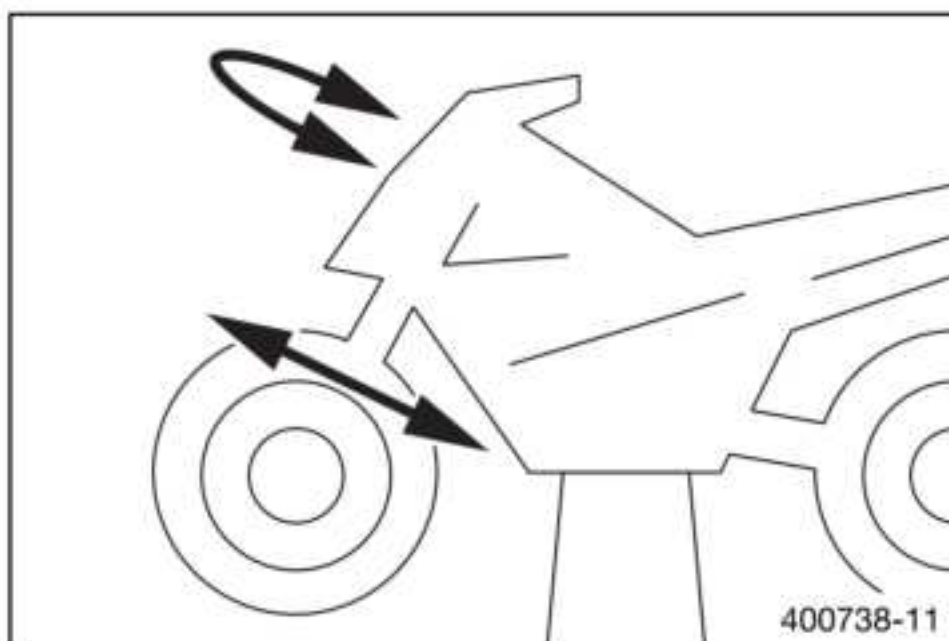
- Move the handlebar to the straight-ahead position. Move the fork legs to and fro in the direction of travel.

Play should not be detectable on the steering head bearing.

- » If there is detectable play:
  - Adjust steering head bearing play. (📖 p. 32)
- Move the handlebar to and fro over the entire steering range.

It must be possible to move the handlebar easily over the entire steering range. There should be no detectable detent positions.

- » If detent positions are detected:
  - Adjust steering head bearing play. (📖 p. 32)
  - Check the steering head bearing and change if necessary.



Finishing work

- Remove the load from the rear of the vehicle.
- Remove the motorcycle from the work stand. (📖 p. 15)

6.12 Adjusting steering head bearing play

Preparatory work

- Raise the motorcycle with the work stand. (📖 p. 14)
- Place a load on rear of the vehicle.
- ✓ The front wheel is not in contact with the ground.

Main work  
(EU)

- Loosen screws ❶. Remove screw ❷.
- Loosen and retighten screw ❸.

Guideline

Screw, top steering head	M20x1.5	12 Nm (8.9 lbf ft)
--------------------------	---------	--------------------

- Using a plastic hammer, tap lightly on the upper triple clamp to avoid stresses.
- Tighten screws ❶.

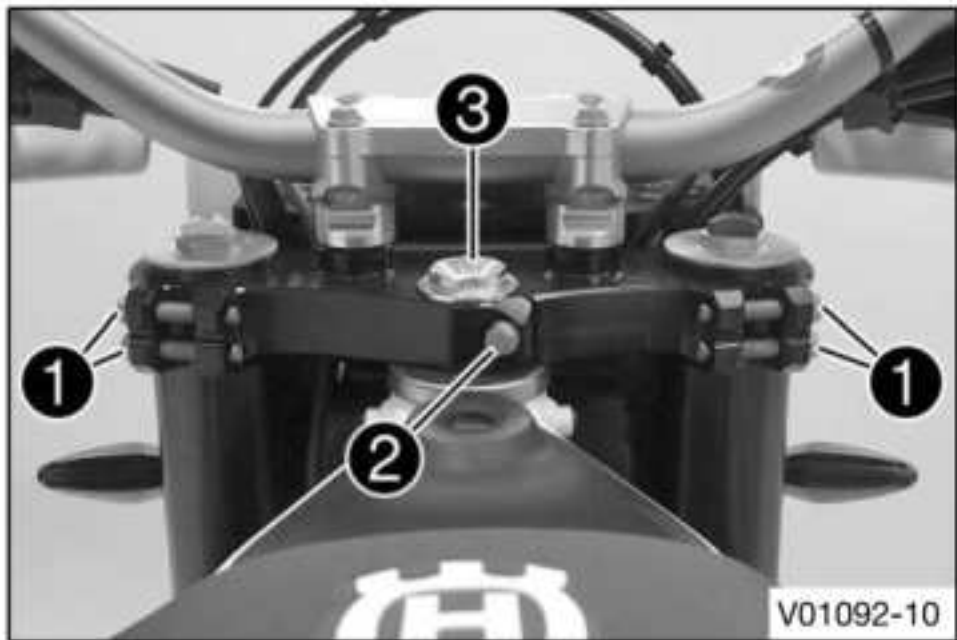
Guideline

Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)
-------------------------	----	---------------------

- Mount and tighten screw ❷.

Guideline

Screw, steering stem	M8	20 Nm (14.8 lbf ft) Loctite®243™
----------------------	----	-------------------------------------



(US)

- Loosen screws ❶. Remove screw ❷.
- Loosen and retighten screw ❸.

Guideline

Screw, top steering head	M20x1.5	12 Nm (8.9 lbf ft)
--------------------------	---------	--------------------

- Using a plastic hammer, tap lightly on the upper triple clamp to avoid stresses.
- Tighten screws ❶.

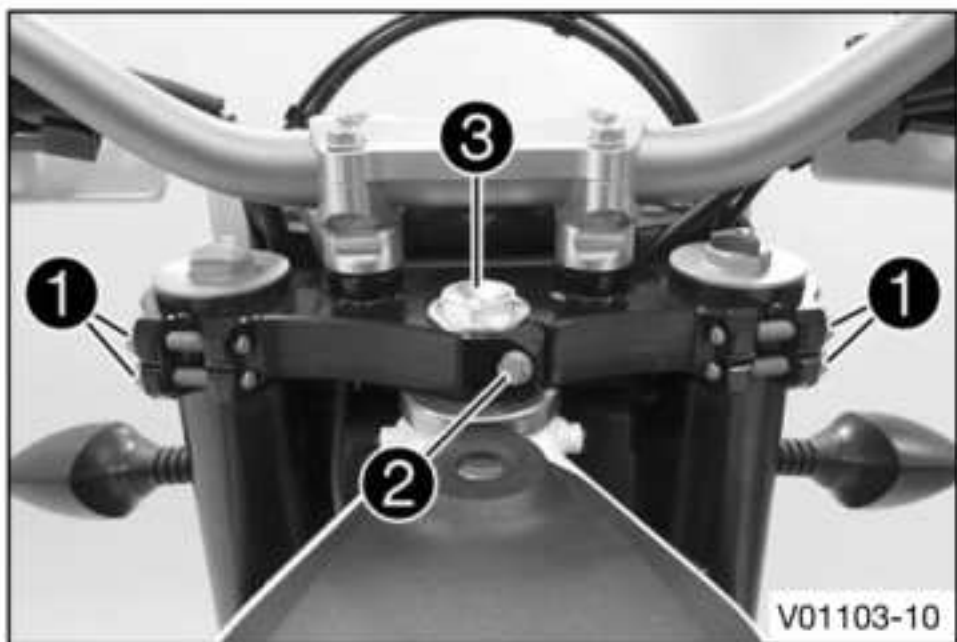
Guideline

Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)
-------------------------	----	---------------------

- Mount and tighten screw ❷.

Guideline

Screw, steering stem	M8	20 Nm (14.8 lbf ft) Loctite®243™
----------------------	----	-------------------------------------



Finishing work

- Check steering head bearing play. (📖 p. 31)
- Remove the load from the rear of the vehicle.



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

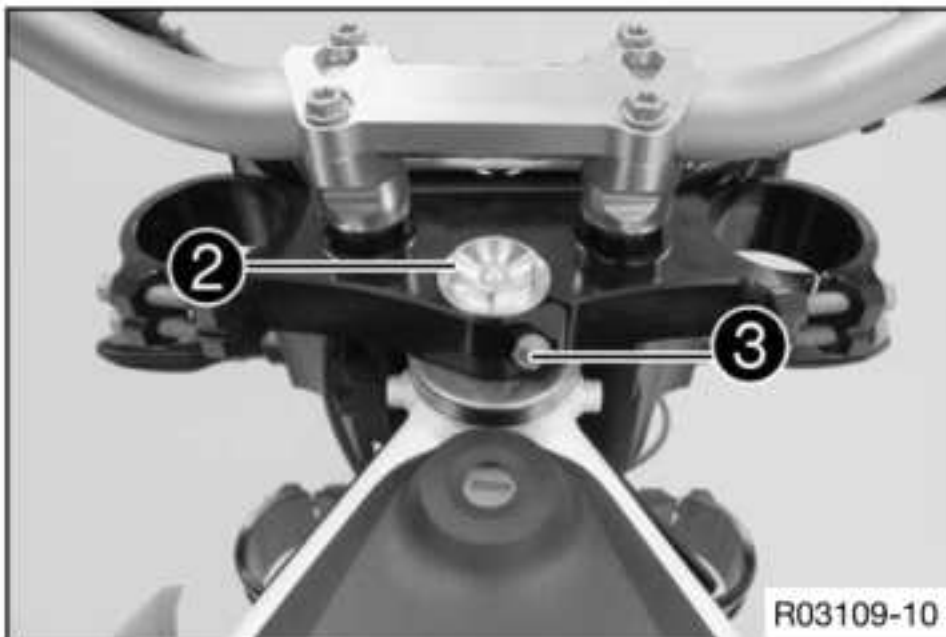
## 6.13 Removing the lower triple clamp

### Preparatory work

- Remove the headlight mask with the headlight. (📖 p. 170)
- Remove front fender. (📖 p. 109)
- Raise the motorcycle with the work stand. (📖 p. 14)
- Place a load on rear of the vehicle.
- ✓ The front wheel is not in contact with the ground.
- Remove front wheel using a work stand. (📖 p. 114)
- Remove the fork legs. (📖 p. 20)

### Main work

- Remove screws ①.



- Remove screw ②.
- Remove screw ③.
- Pull off the upper triple clamp with the handlebar and hang to the front.



### Info

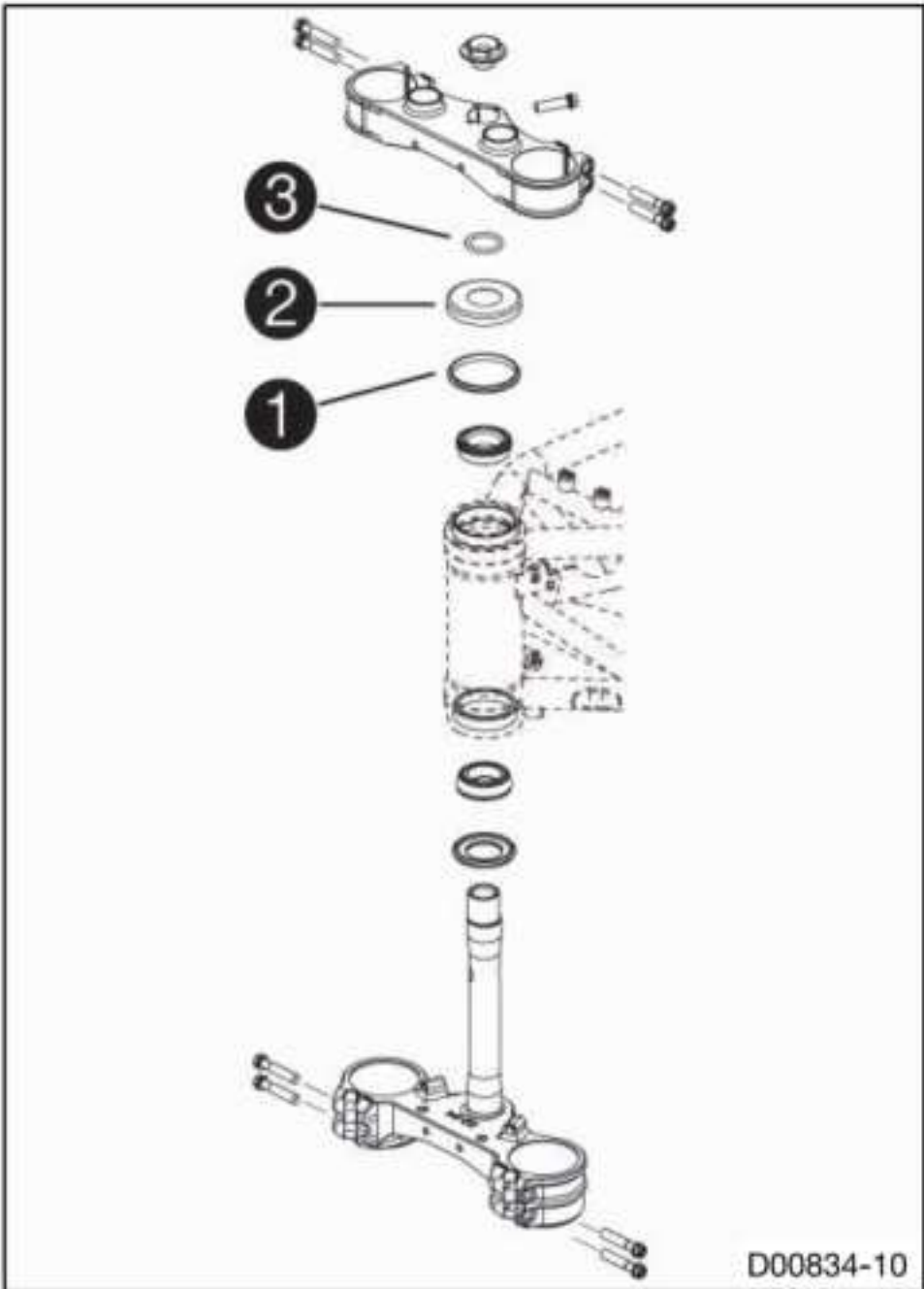
Cover the components to protect them against damage.  
Do not kink the cables and lines.



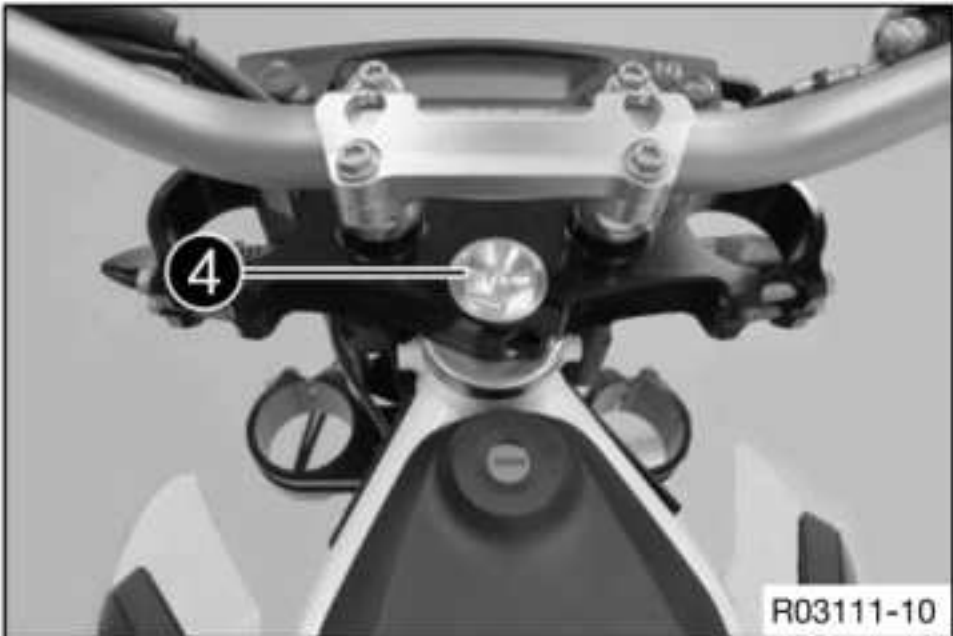
- Remove O-ring ④. Remove protective ring ⑤.
- Take off the lower triple clamp with the steering stem.
- Remove the upper steering head bearing.



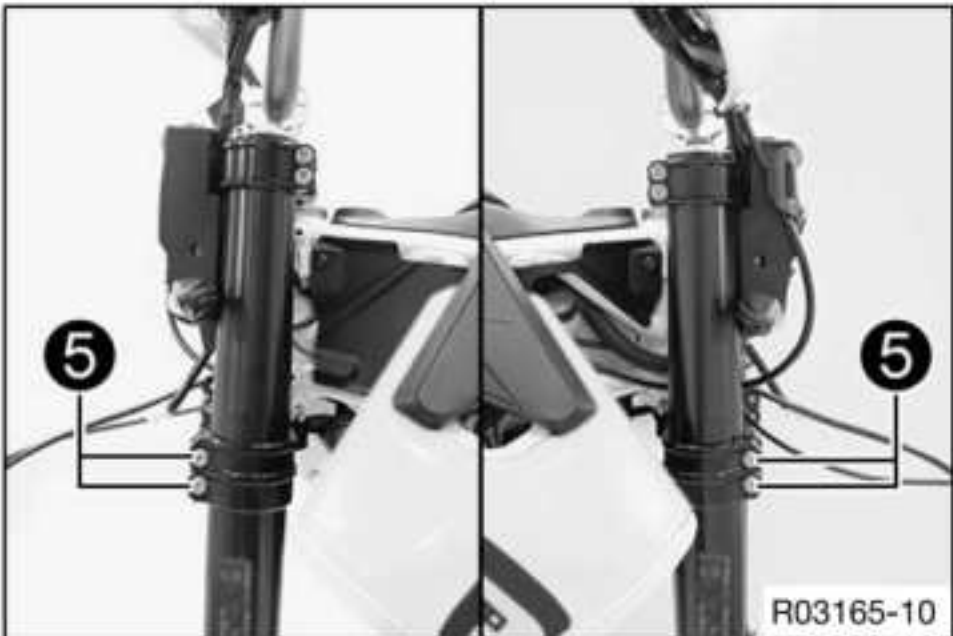
6.14 Installing the lower triple clamp



- Main work**
- Clean the bearing and sealing elements, check for damage, and grease.
- High viscosity grease (📖 p. 378)
- Insert the lower triple clamp with the steering stem. Mount the upper steering head bearing.
  - Check whether upper steering head seal 1 is correctly positioned.
  - Slide on protective ring 2 and O-ring 3.



- Position the upper triple clamp with the handlebar.
- Mount screw 4 but do not tighten yet.



- Position the fork legs in the triple clamps.

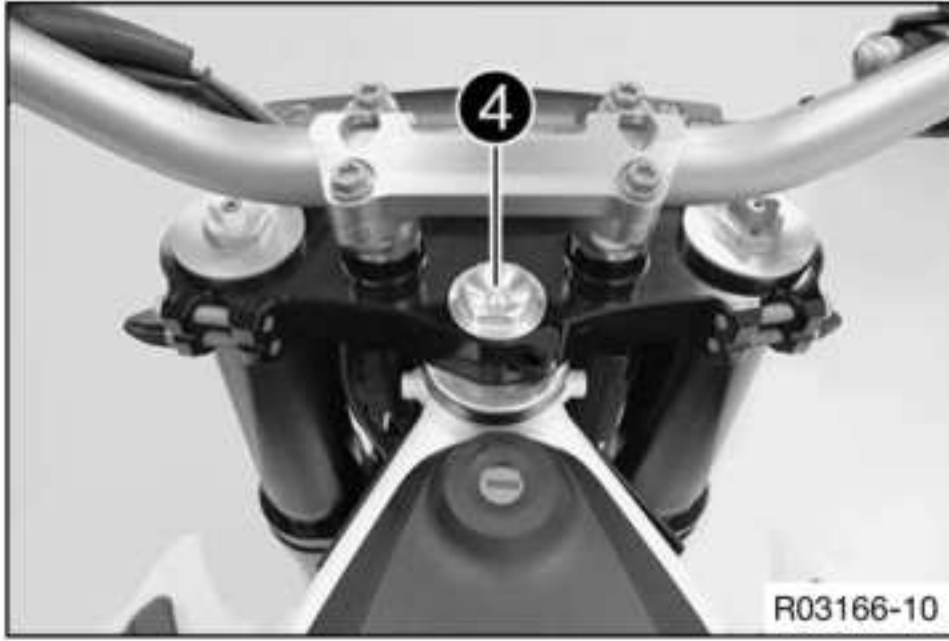
i

**Info**

Grooves are milled into the side of the upper end of the fork legs. The second milled groove (from the top) must be flush with the top edge of the upper triple clamp.

- Tighten screws 5.

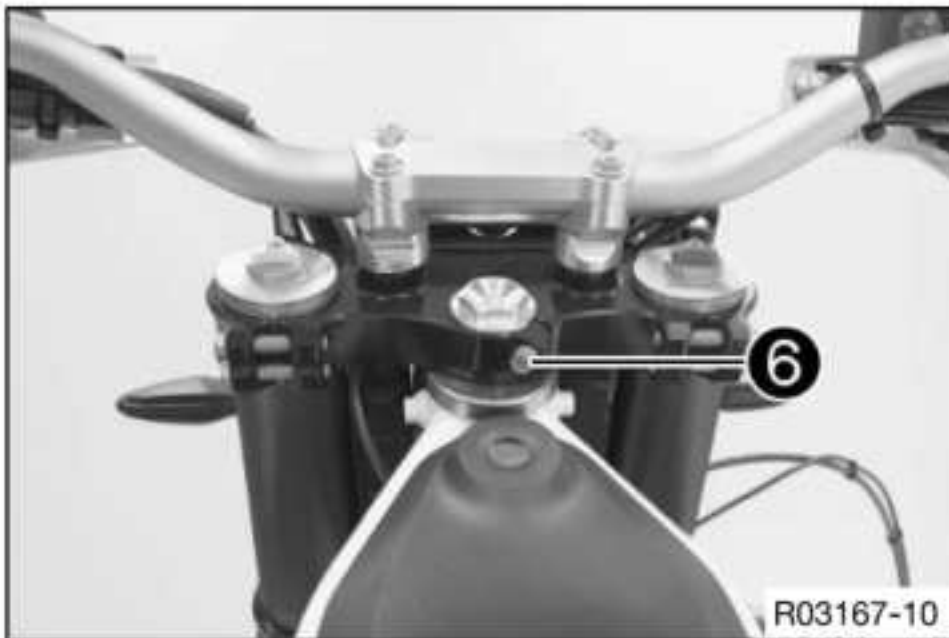
Guideline		
Screw, bottom triple clamp	M8	12 Nm (8.9 lbf ft)



- Tighten screw 4.

Guideline

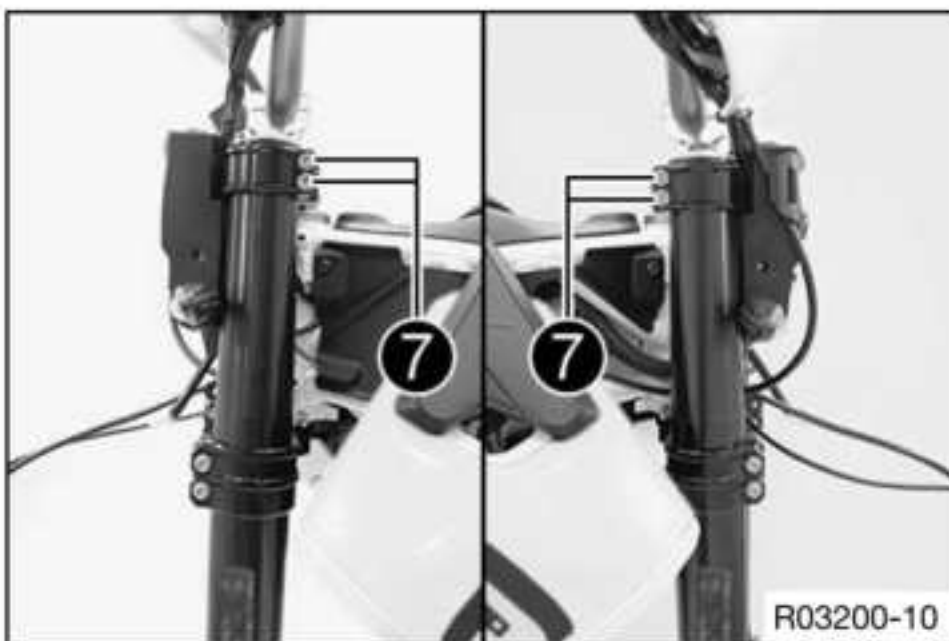
Screw, top steering head	M20x1.5	12 Nm (8.9 lbf ft)
--------------------------	---------	--------------------



- Mount and tighten screw 6.

Guideline

Screw, steering stem	M8	20 Nm (14.8 lbf ft) <b>Loctite®243™</b>
----------------------	----	--



- Using a plastic hammer, tap lightly on the upper triple clamp to avoid stresses.
- Tighten screws 7.

Guideline

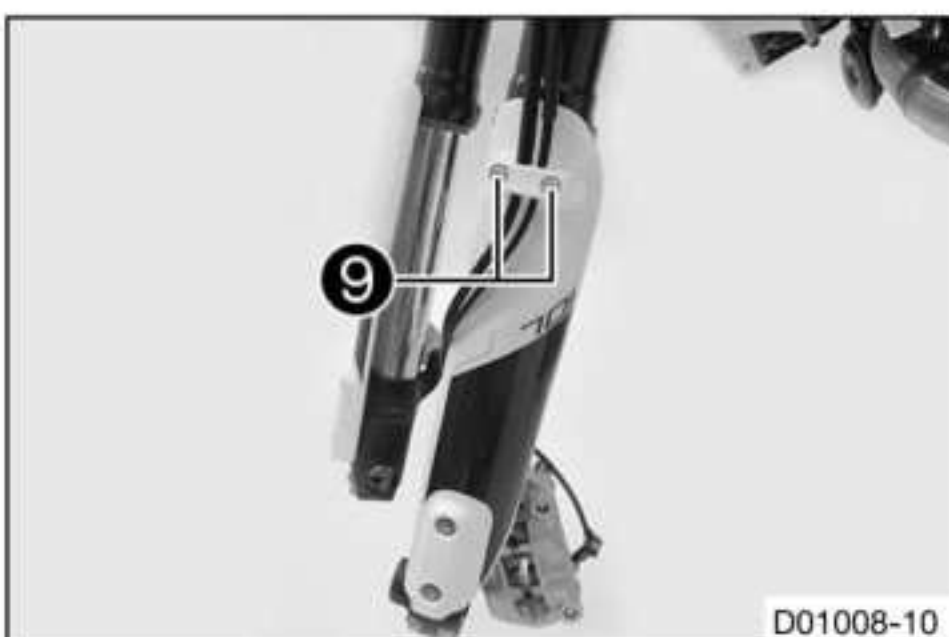
Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)
-------------------------	----	---------------------



- Mount and tighten screws 8.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
---------------------------	----	--------------------



- Position the brake line, wiring harness, and clamp. Mount and tighten screws 9.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
---------------------------	----	--------------------

## Finishing work

- Install front fender. (📖 p. 109)
- Install the headlight mask with the headlight. (📖 p. 171)
- Install the front wheel using a work stand. (📖 p. 116)



- Check that the wiring harness, throttle cables, and brake and clutch lines can move freely and are routed correctly.
- Check steering head bearing play. (📖 p. 31)
- Remove the load from the rear of the vehicle.
- Remove the motorcycle from the work stand. (📖 p. 15)
- Check the headlight setting. (📖 p. 169)

## 6.15 Changing the steering head bearing

### Preparatory work

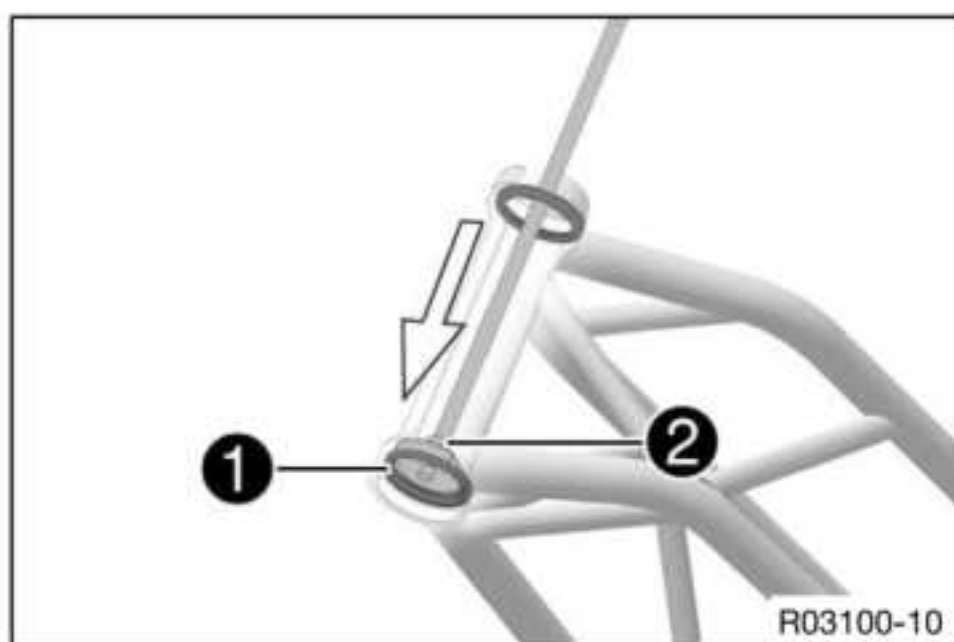
- Remove the headlight mask with the headlight. (📖 p. 170)
- Remove front fender. (📖 p. 109)
- Raise the motorcycle with the work stand. (📖 p. 14)
- Place a load on rear of the vehicle.
- ✓ The front wheel is not in contact with the ground.
- Remove front wheel using a work stand. (📖 p. 114)
- Remove the fork legs. (📖 p. 20)
- Remove the lower triple clamp. (📖 p. 33)

### Main work

- Remove lower bearing ring ❶ with special tool ❷.

Tool bracket (58429089000) (📖 p. 383)
---------------------------------------

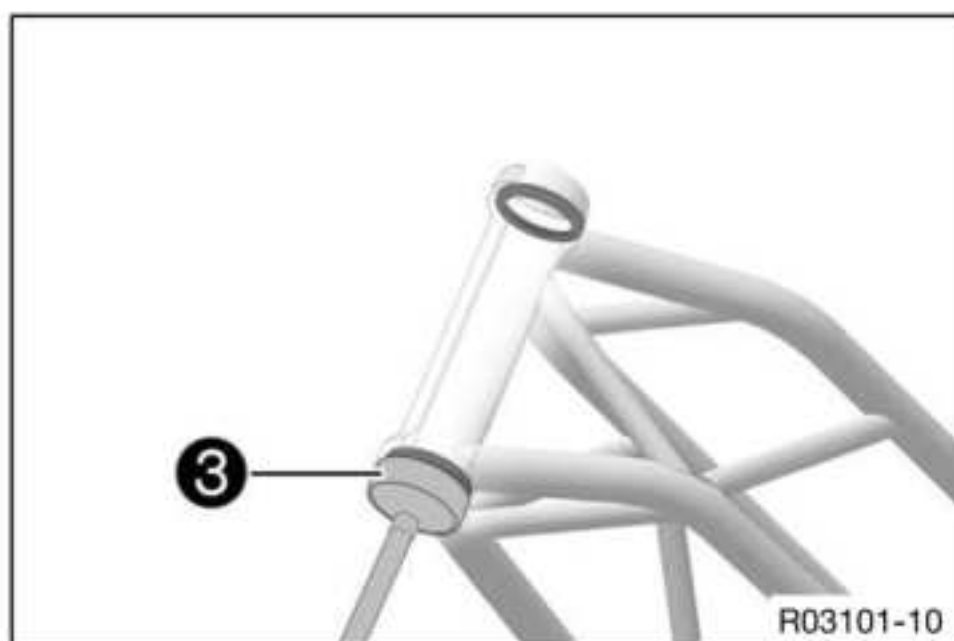
Pressing tool (58429092000) (📖 p. 383)
--



- Press the new bearing ring up to the stop with special tool ❸.

Tool bracket (58429089000) (📖 p. 383)
---------------------------------------

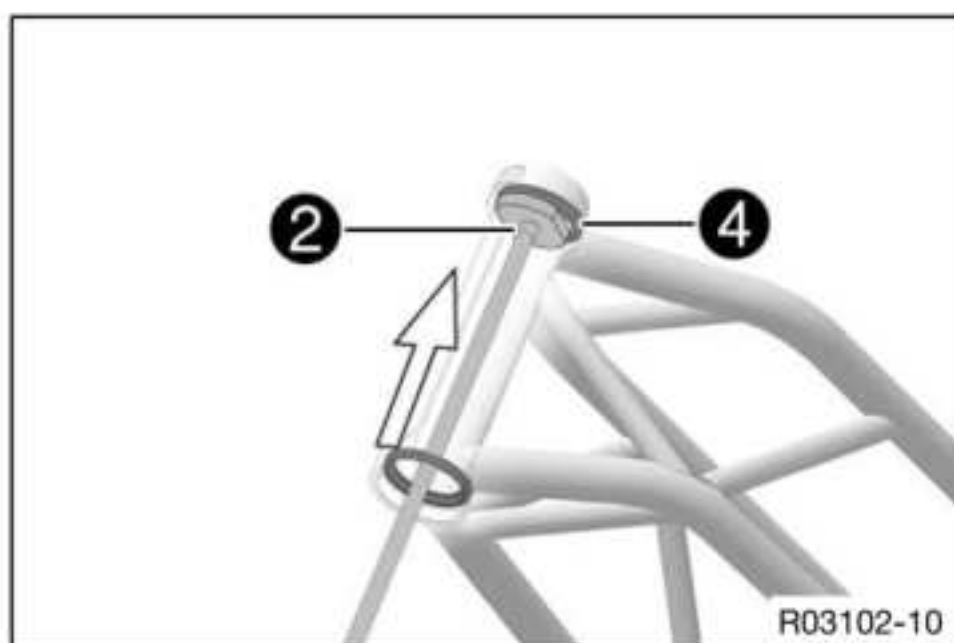
Pressing tool (58429091000) (📖 p. 383)
--



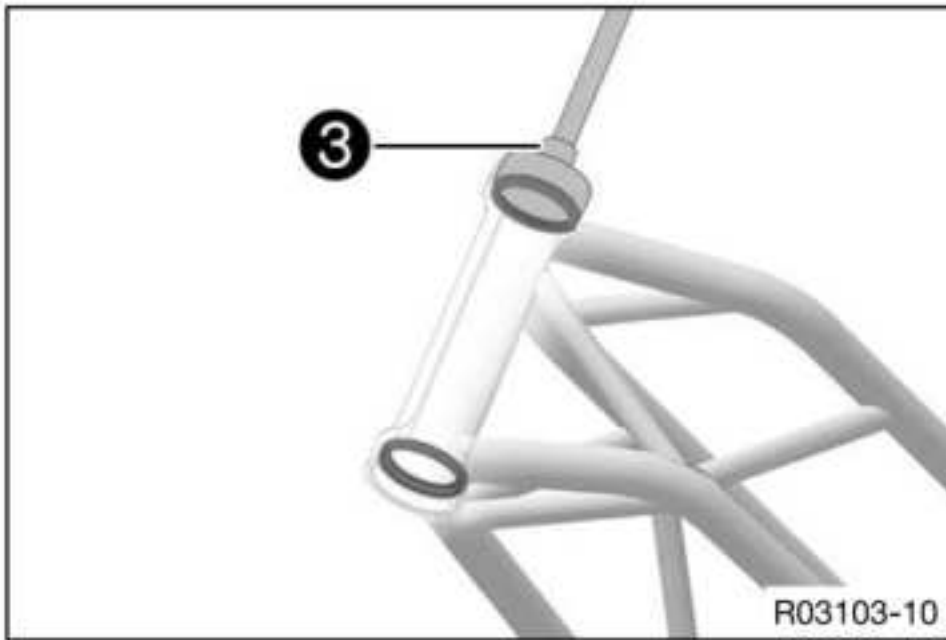
- Remove upper bearing ring ❹ with special tool ❷.

Tool bracket (58429089000) (📖 p. 383)
---------------------------------------

Pressing tool (58429092000) (📖 p. 383)
--



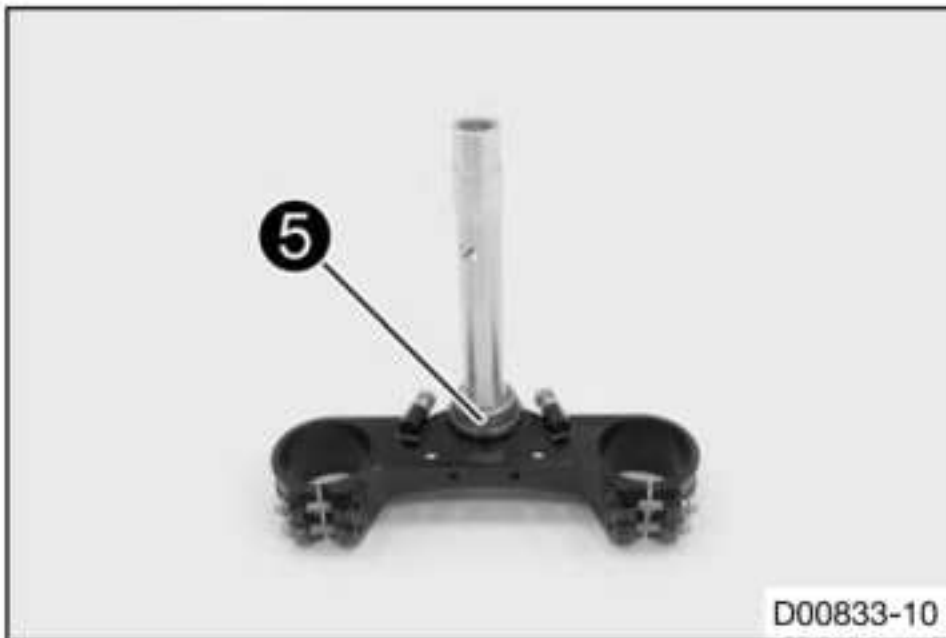




- Press the new bearing ring up to the stop with special tool **3**.

Tool bracket (58429089000) (📖 p. 383)

Pressing tool (58429091000) (📖 p. 383)



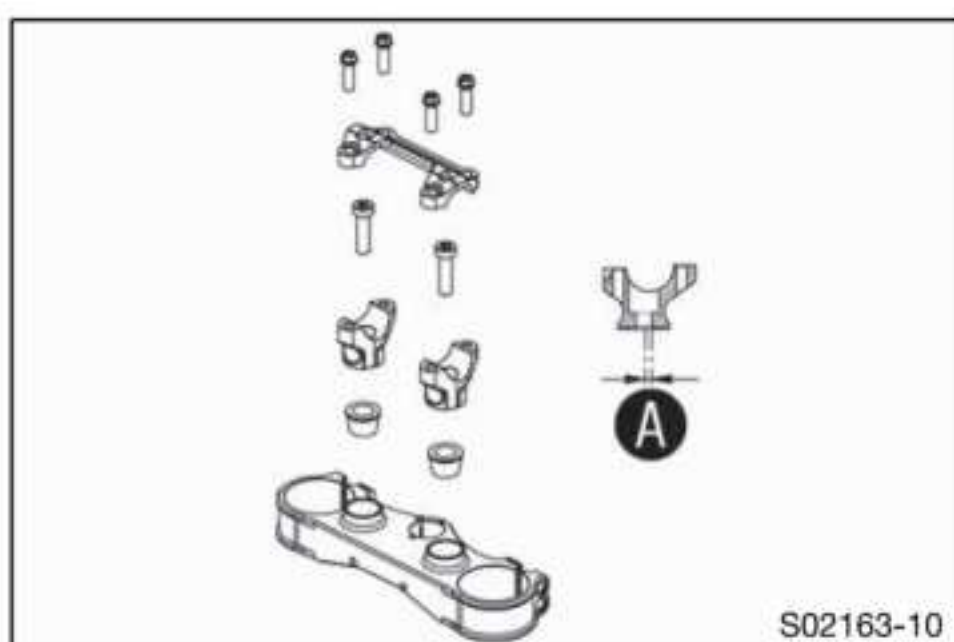
- Remove lower steering head bearing **5**.
- Remove the seal ring.
- Grease and mount the new seal ring.
- Press on the new bearing with a suitable tube as far as it will go.

## Finishing work

- Install the lower triple clamp. (📖 p. 34)
- Install front fender. (📖 p. 109)
- Install the headlight mask with the headlight. (📖 p. 171)
- Install the front wheel using a work stand. (📖 p. 116)
- Check that the wiring harness, throttle cables, and brake and clutch lines can move freely and are routed correctly.
- Check steering head bearing play. (📖 p. 31)
- Remove the load from the rear of the vehicle.
- Remove the motorcycle from the work stand. (📖 p. 15)
- Check the headlight setting. (📖 p. 169)

# 7 HANDLEBAR, CONTROLS

## 7.1 Handlebar position



The holes on the handlebar support are placed at a distance of **A** from the center.

Hole distance <b>A</b>	3.5 mm (0.138 in)
------------------------	-------------------

The handlebar can be mounted in 2 different positions. This allows the handlebar to be mounted in the most comfortable position for the rider.

## 7.2 Adjusting the handlebar position

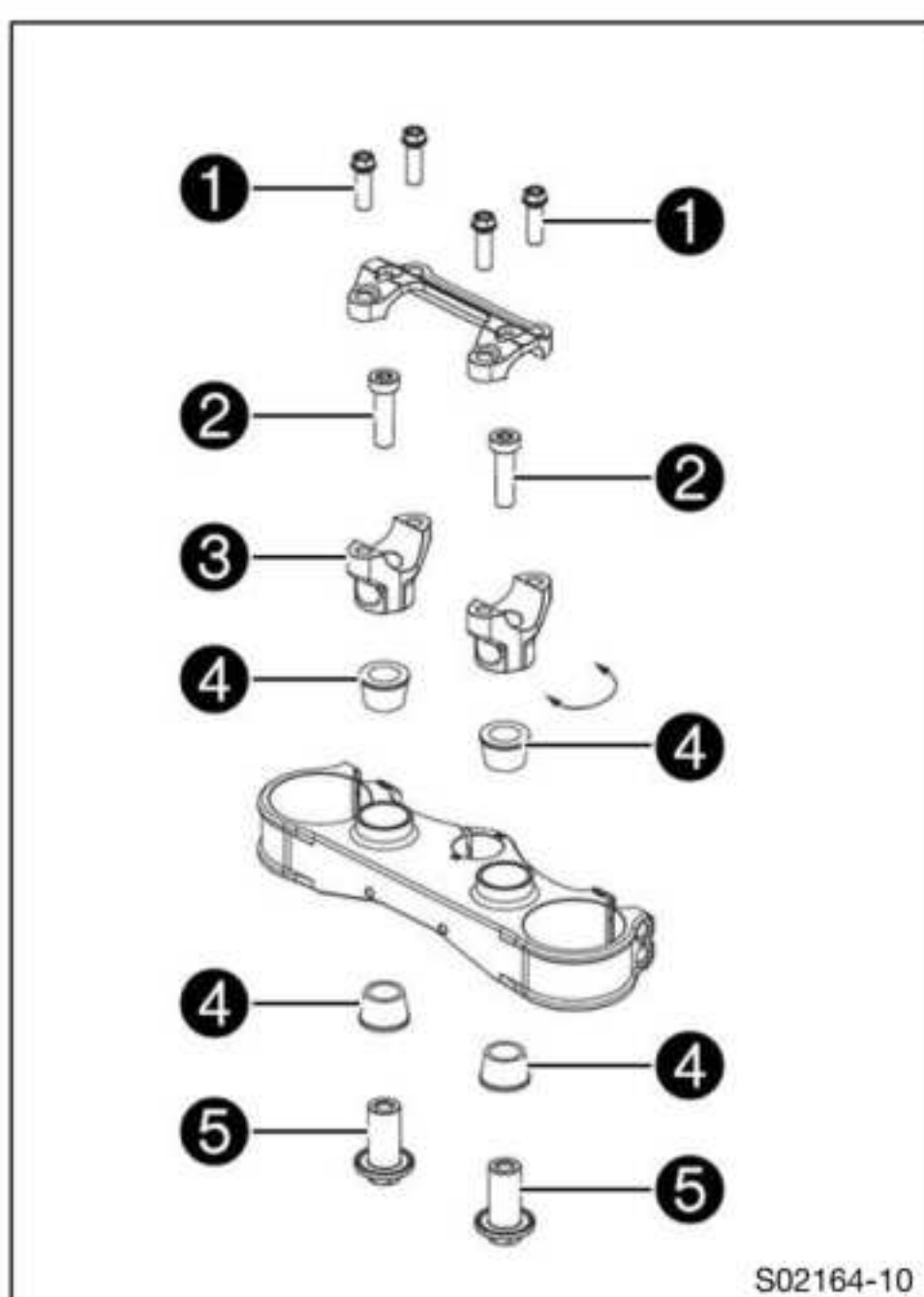


### Warning

**Danger of accidents** A repaired handlebar poses a safety risk.

If the handlebar is bent or straightened, the material becomes fatigued. The handlebar may break as a result.

- Change the handlebar if the handlebar is damaged or bent.



- Remove screws **1**. Take off the handlebar clamp. Remove the handlebar and lay it to one side.



### Info

Cover the components to protect them against damage.

Do not kink the cables and lines.

- Remove screws **2**. Remove handlebar support **3**.
- Position rubber bushings **4** and push through nuts **5** from below.
- Place the handlebar support in the required position.



### Info

The handlebar supports are longer and higher on one side.

Position the left and right handlebar supports evenly.

- Mount and tighten screws **2**.

### Guideline

Screw, handlebar support	M10	45 Nm (33.2 lbf ft) <b>Loctite®243™</b>
--------------------------	-----	--

- Position the handlebar.



### Info

Make sure the cables and wiring are positioned correctly.

- Position the handlebar clamp.
- Mount screws **1** but do not tighten yet.

