



- Mount seal ring retainer ④ and slide it under the ring groove.
- Mount lock ring ⑤.



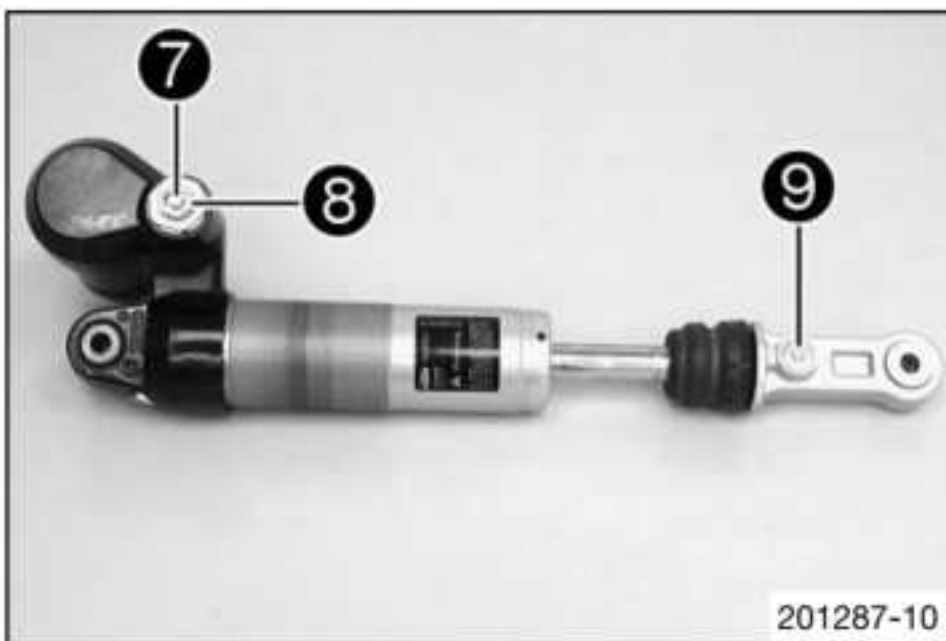
Info

Do not scratch the inside surface.

- Pull out the piston rod until the seal ring retainer is flush with the lock ring.



- Mount locking cap ⑥ of the damper cartridge.
- Bleed and fill the damper. (📖 p. 70)
- Fill the damper with nitrogen. (📖 p. 73)



Alternative 1

- Turn adjusting screw ⑦ clockwise with a screwdriver as far as the last perceptible click.
- Turn counterclockwise by the number of clicks corresponding to the shock absorber type.

Guideline

Low-speed compression damping	
Comfort	25 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks

- Turn adjusting screw ⑧ all the way clockwise with a socket wrench.
- Turn counterclockwise by the number of turns corresponding to the shock absorber type.

Guideline

High-speed compression damping	
Comfort	2 turns
Standard	1.5 turns
Sport	1 turn
Full payload	1 turn

- Turn adjusting screw ⑨ clockwise up to the last perceptible click.
- Turn counterclockwise by the number of clicks corresponding to the shock absorber type.

Guideline

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

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.

- Position adjusting screws 7, 8, and 9 in the location determined during disassembly.

Finishing work

- Install the spring. (📖 p. 74)

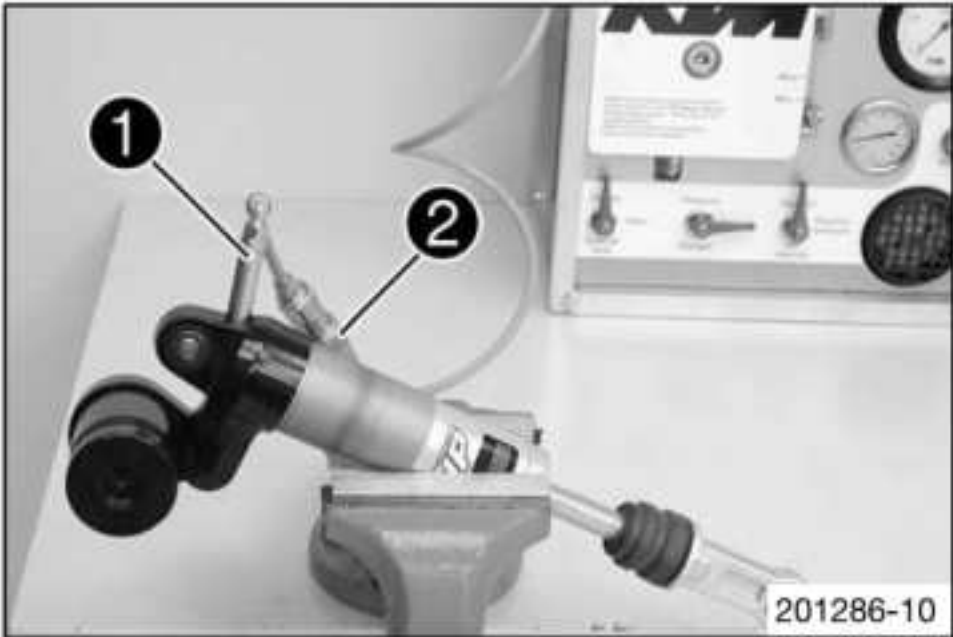
9.24 Bleeding and filling the damper



Info

Before working with the vacuum pump, carefully read the operating manual included with the vacuum pump.

Open the adjusters of the rebound and compression damping completely.



- Clamp the damper as shown.

Guideline

Use soft jaws.



Info

The filling port must be located at the highest position. The piston rod moves in and out during filling; do not immobilize it by holding it with your hand.

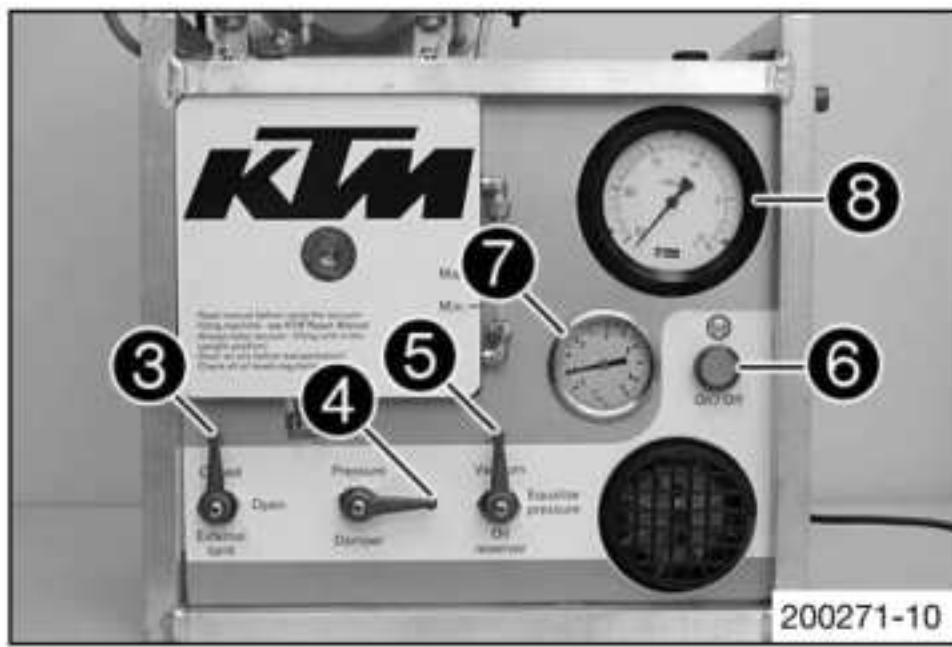
- Remove the screw from the filling port.
- Mount adapter 1 on the damper.



Info

Hand-tighten only without using a tool.

- Connect adapter 1 to connector 2 of the vacuum pump.



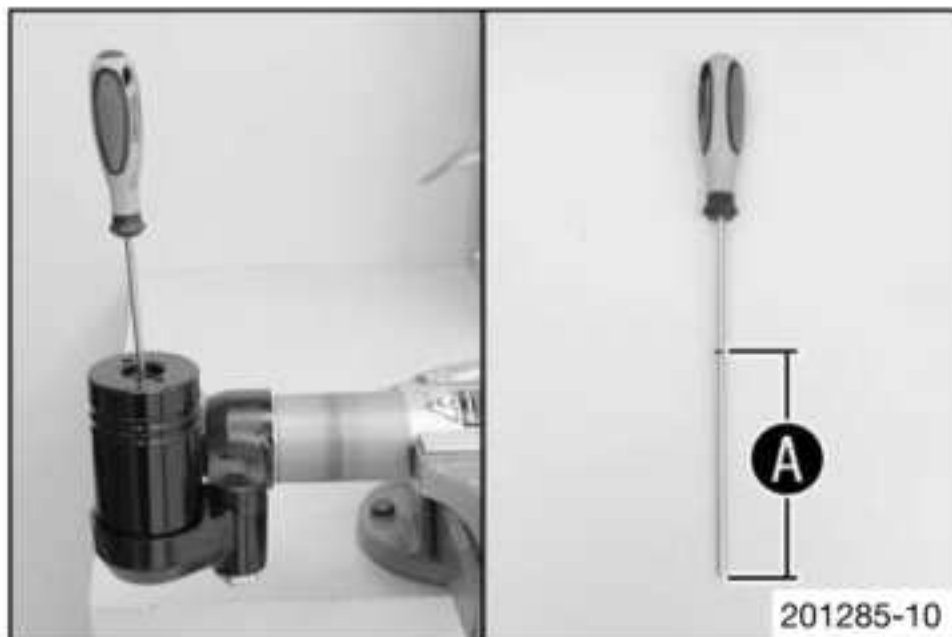
Vacuum pump (T1240S) (p. 397)

- Adjust the control lever as shown.
 - ✓ Control lever **External tank** ③ is set to **Closed**, **Damper** ④ is set to **Vacuum** and **Oil reservoir** ⑤ is set to **Vacuum**.
- Activate **On/Off** switch ⑥.
 - ✓ The suction process begins.
 - ✓ Pressure gauge ⑦ drops to the required value.

< 0 bar

- ✓ Vacuum gauge ⑧ drops to the required value.

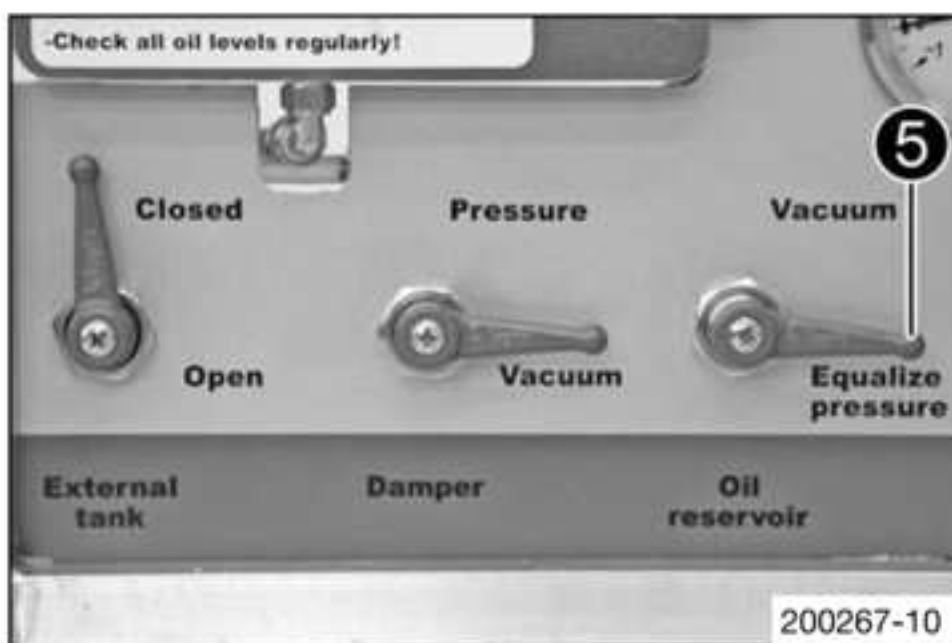
4 mbar



- Determine distance **A** between the floating piston and reservoir hole with the special tool.

Depth micrometer (T107S) (p. 396)

- ✓ The floating piston is located in the lowermost position.



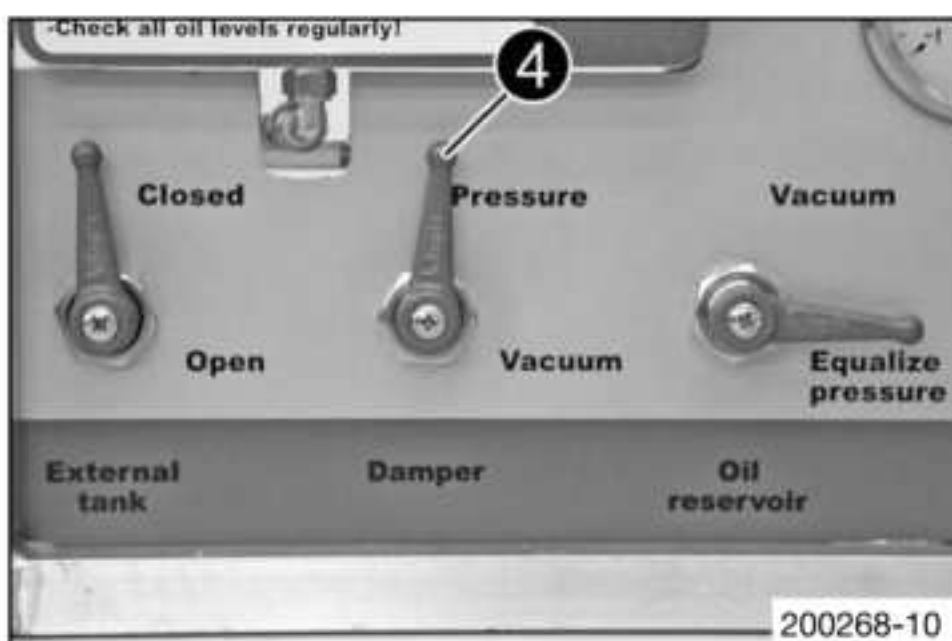
- When the vacuum gauge reaches the required value, turn control lever **Oil reservoir** ⑤ to **Equalize pressure**.

Guideline

4 mbar

- ✓ The pressure gauge increases to the required value.

0 bar



- When the pressure gauge reaches the specified value, turn control lever **Damper** ④ to **Pressure**.

Guideline

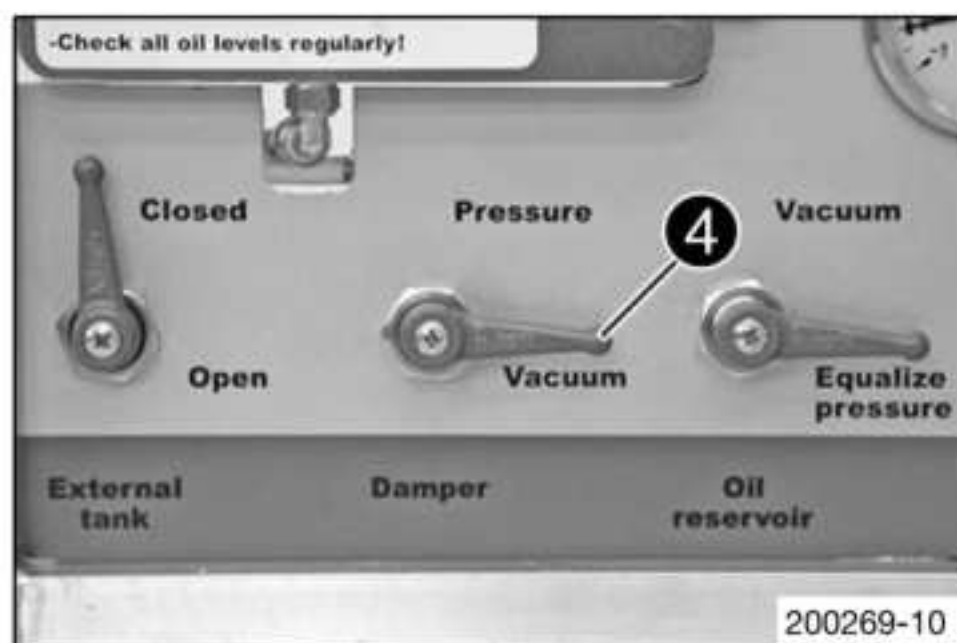
0 bar

- ✓ Oil is pumped into the damper.

- ✓ The pressure gauge increases to the required value.

3 bar

9 SHOCK ABSORBER, LINK FORK



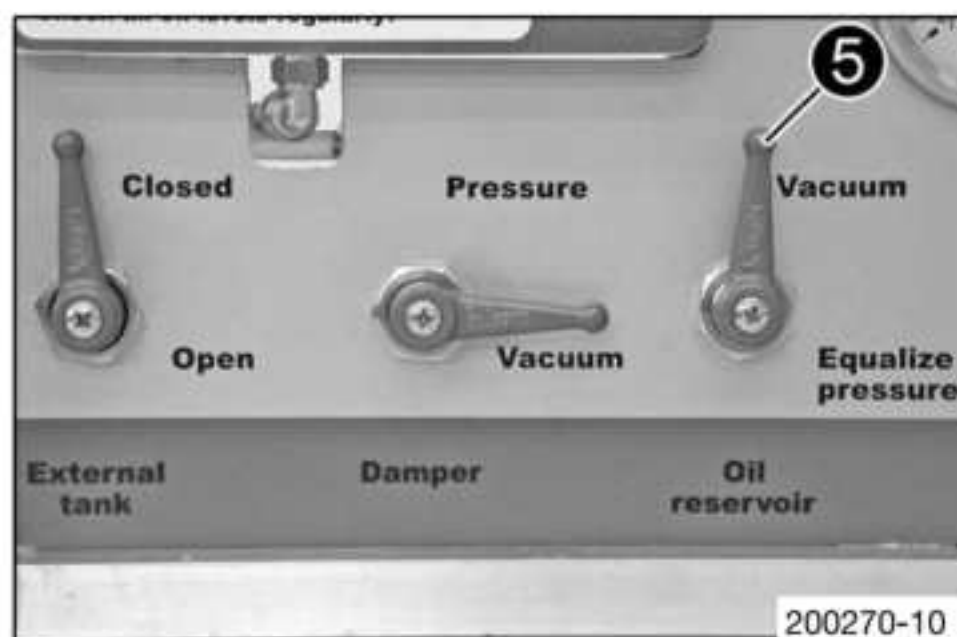
- When the pressure gauge reaches the specified value, turn control lever **Damper 4** to **Vacuum**.

Guideline

3 bar

- ✓ The pressure gauge drops to the required value.

0 bar



- When the pressure gauge reaches the specified value, turn control lever **Oil reservoir 5** to **Vacuum**.

Guideline

0 bar

- ✓ The vacuum gauge drops to the required value.

4 mbar



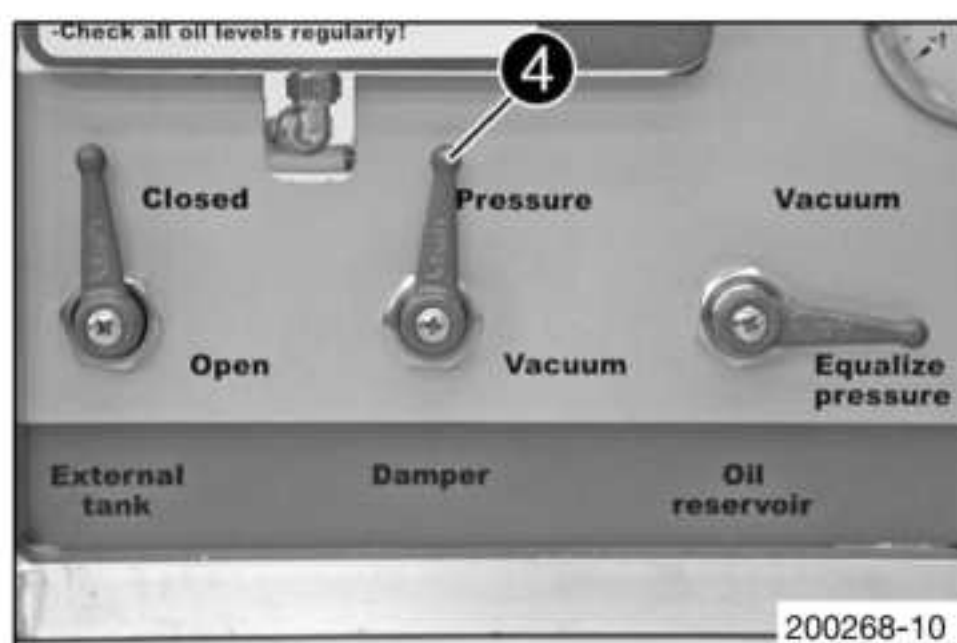
- When the vacuum gauge reaches the required value, turn control lever **Oil reservoir 5** to **Equalize Pressure**.

Guideline

4 mbar

- ✓ The pressure gauge drops to the required value.

0 bar



- When the pressure gauge reaches the specified value, turn control lever **Damper 4** to **Pressure**.

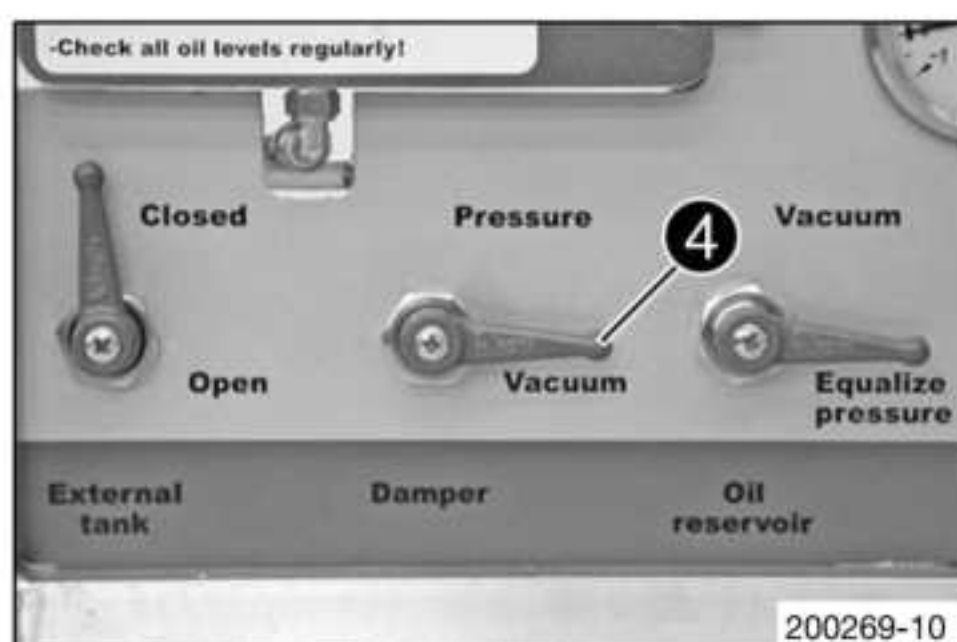
Guideline

0 bar

- ✓ Oil is pumped into the damper.

- ✓ The pressure gauge increases to the required value.

3 bar



- When the pressure gauge reaches the specified value, turn control lever **Damper 4** to **Vacuum**.

Guideline

3 bar

- ✓ The pressure gauge drops to the required value.

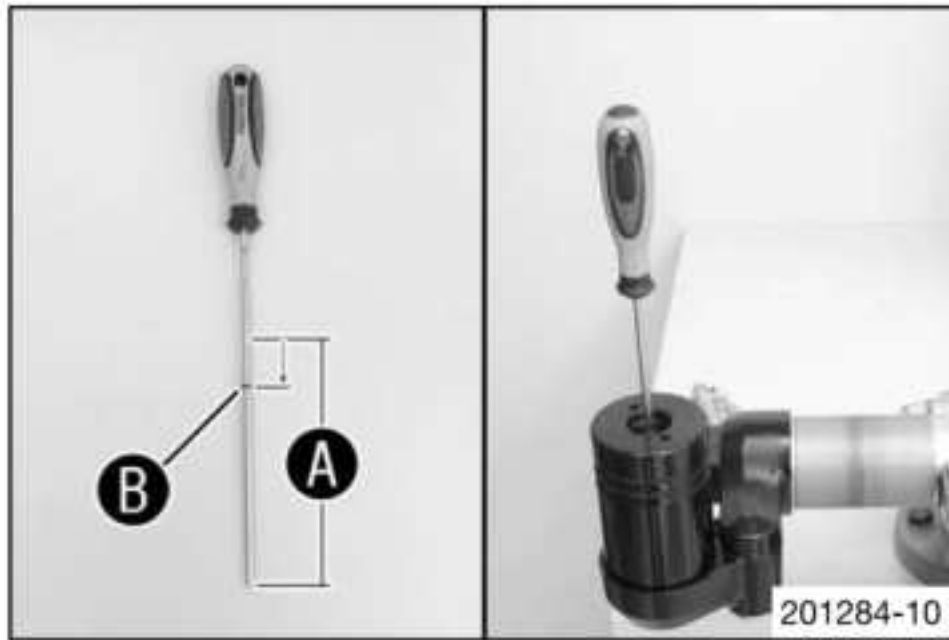
0 bar

- When the pressure gauge reaches the required value, activate the **On/Off** switch.

Guideline

0 bar

- ✓ The vacuum pump is switched off.



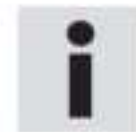
- Slide O-ring **B** to the end of the special tool by the specified value (distance **A** minus specified value).

Guideline

10 mm

Depth micrometer (T107S) (p. 396)

- Slide the floating piston into the reservoir to the shortened position using the special tool.



Info

The floating piston must be positioned at exactly this point when the piston rod is fully extended, otherwise damage will occur during compression of the shock absorber.

- Remove the special tool.
- Remove adapter **1** from connector **2** of the vacuum pump.



Info

Hold the damper so that the filling port is at the highest point.

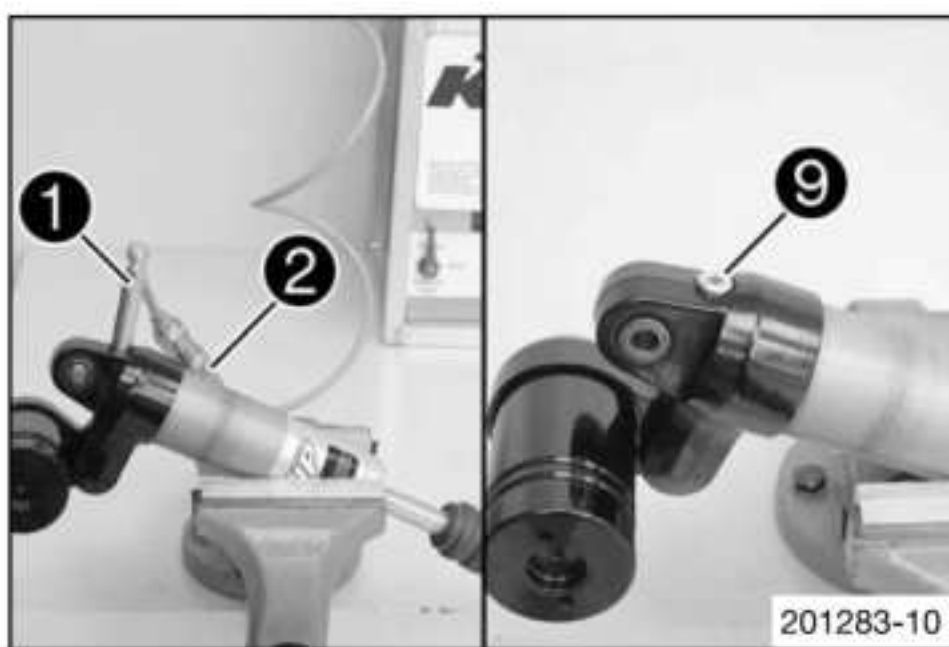
- Remove the adapter.
- Mount and tighten screw **9**.

Guideline

Filling port screw

M10x1

14 Nm (10.3 lbf ft)



9.25 Filling the damper with nitrogen

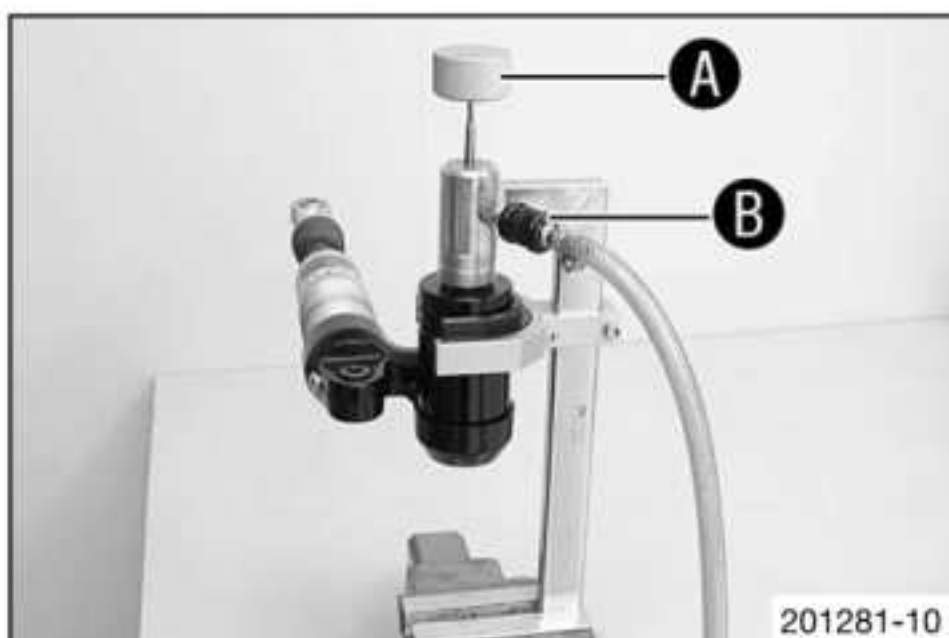


- Screw in screw **1** by approx. 2 rotations but do not tighten.



Info

The piston rod is fully extended.



- Clamp special tool in the vise.

Filling tool (T170S1) (p. 399)

- Connect the special tool to the pressure regulator of the filling cylinder.

Filling gas - nitrogen

- Adjust pressure regulator.

Guideline

Gas pressure

10 bar (145 psi)

- Position the damper in the special tool.

- ✓ The hexagonal part of the tap handle **A** engages in the hexagon socket of the filling port screw.
- Open filler tap **B**.
- Fill the damper for at least 15 seconds.

Guideline

Gas pressure	10 bar (145 psi)
--------------	------------------



Info
Watch the pressure regulator dial.
Make sure that the damper is filled to the specified pressure.

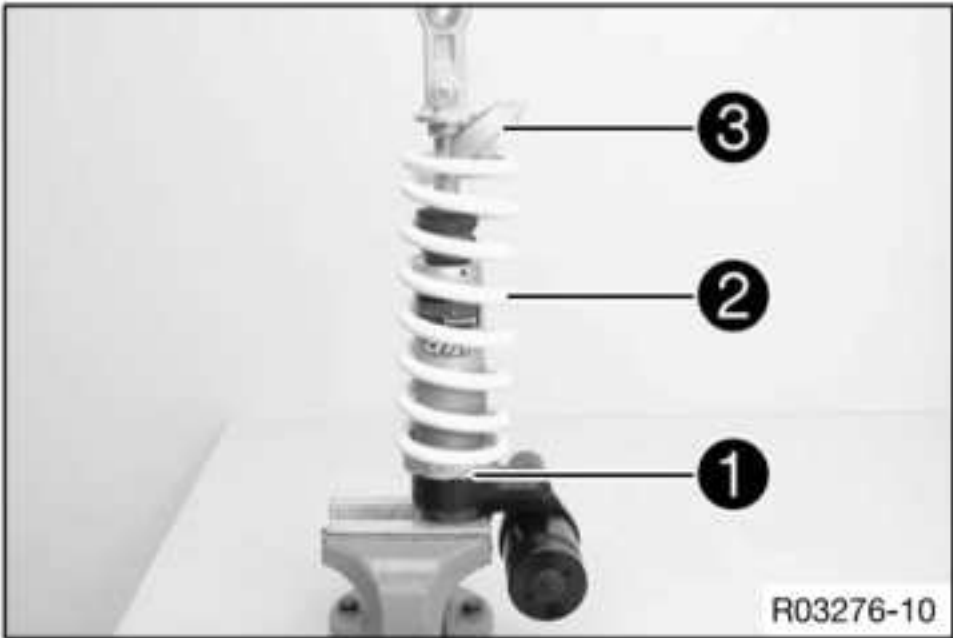
- Close the filling port screw using tap handle **A**.
- Close spigot **B** and take the damper out of the special tool.
- Tighten the filling port screw.

Guideline

Screw, reservoir filling port	M5	3 Nm (2.2 lbf ft)
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- Mount the rubber cap of the reservoir.

9.26 Installing the spring



- Clamp the damper in the bench vise.
- Guideline
- Use soft jaws.
- Mount adjusting ring **1** and turn it all the way down.
 - ✓ The collar faces the spring.
 - Measure the overall spring length while the spring is not under tension.
 - Mount spring **2**.

Guideline

Spring rate	
Medium (standard)	75 N/mm (428 lb/in)
Hard	80 N/mm (457 lb/in)

- Mount spring retainer **3**.
- ✓ The open end is opposite the spring end.

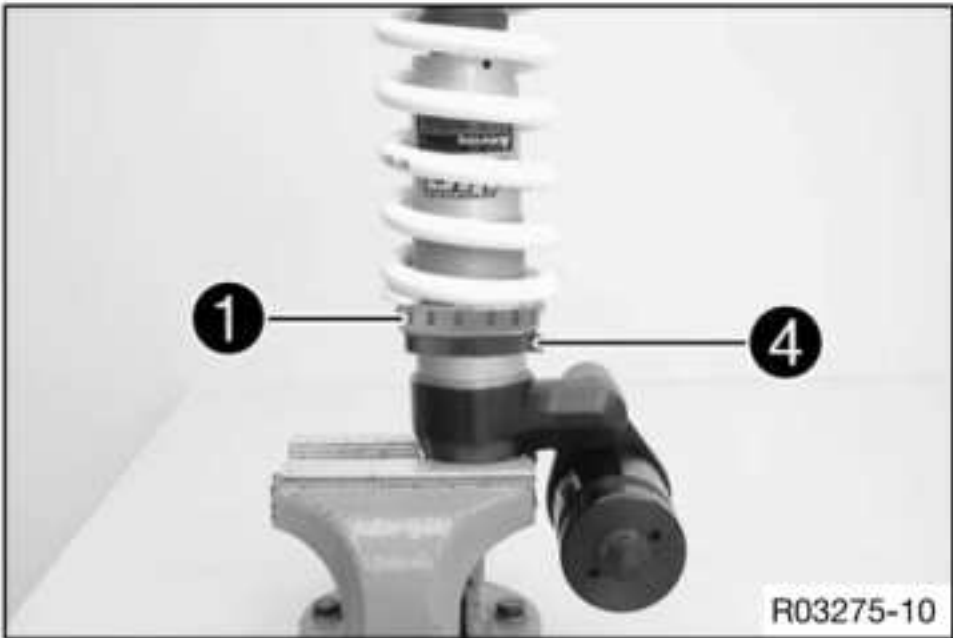
Alternative 1

- Tighten the spring by turning adjusting ring **1** to the specified measurement.

Guideline

Spring preload	21 mm (0.83 in)
----------------	-----------------

Hook wrench (T106S) (📖 p. 396)



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.

- Adjust the spring to the value determined when it was removed by turning adjusting ring **1**.

Hook wrench (T106S) (📖 p. 396)

- Tighten screw **4**.

9.27 Checking the link fork



- Check the link fork for damage, cracking, and deformation.
 - » If the link fork exhibits damage, cracking, or deformation:
 - Change the link fork.



Info

Always replace a damaged link fork. Husqvarna Motorcycles does not permit repairing link forks.

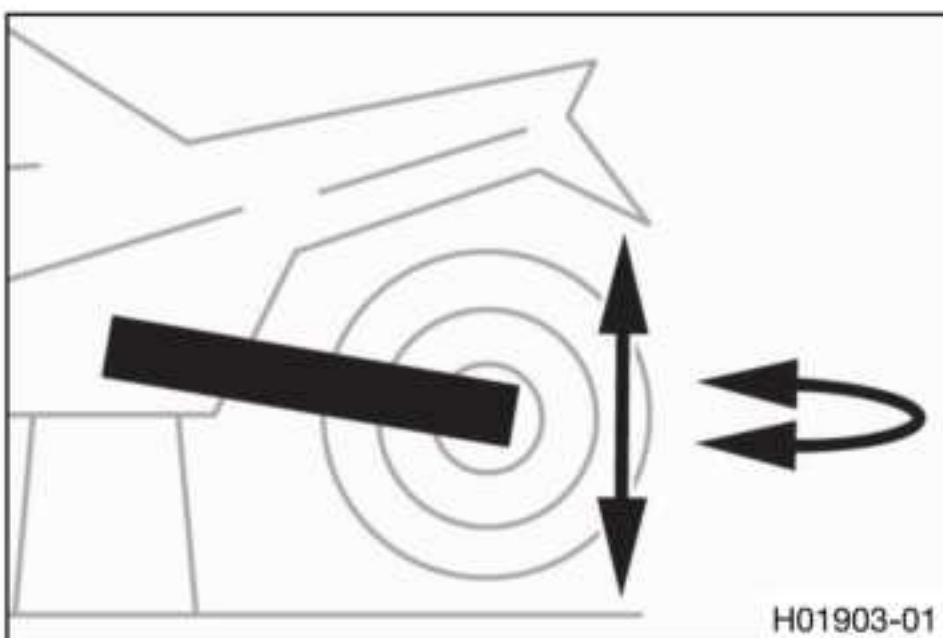
9.28 Checking the fork bearing for play

Preparatory work

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

Main work

- Move the link fork up and down.
 - » If there is detectable play:
 - Change the fork bearing. (📖 p. 78)
- Move the link fork from one side to the other.
 - » If there is detectable play:
 - Change the fork bearing. (📖 p. 78)



Finishing work

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

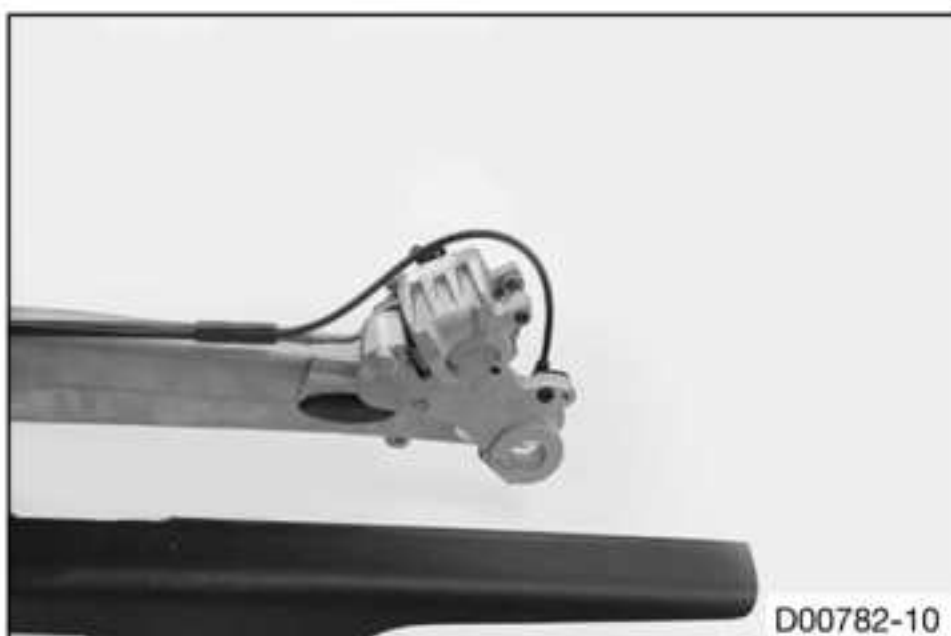
9.29 Removing the link fork

Preparatory work

- Raise the motorcycle with the work stand. (📖 p. 14)
- Remove the rear wheel using a work stand. (📖 p. 120)

Main work

- Take the brake line out of the guide.

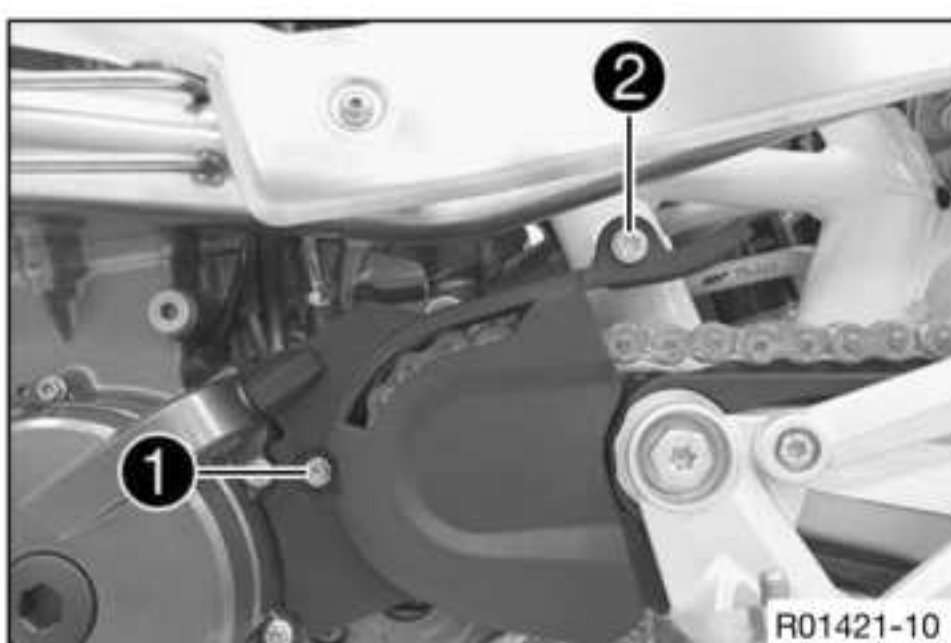


- Take the brake caliper out of the guide and hang it to the side.



Info

Cover the components to protect them against damage.



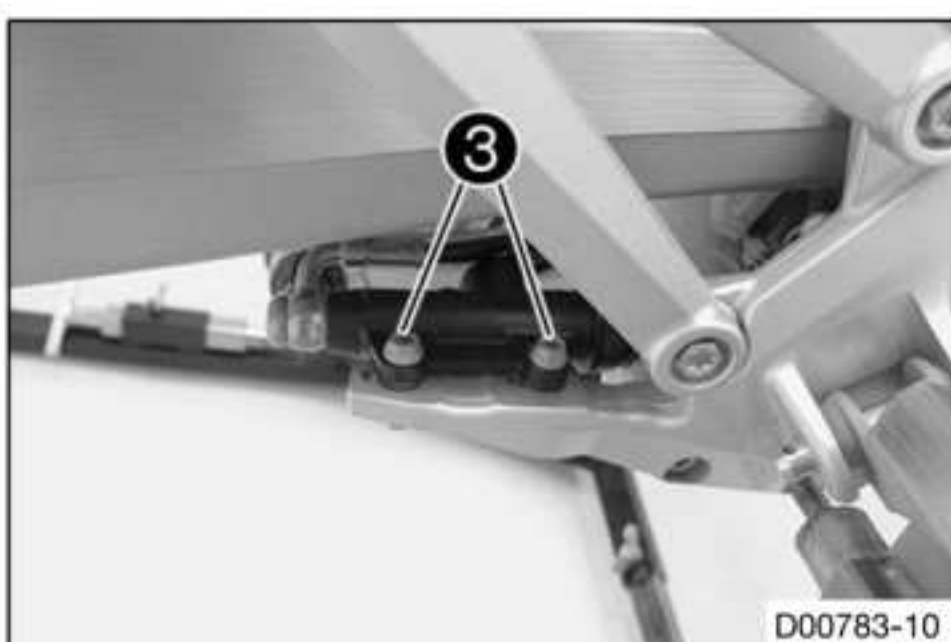
- Remove screws ❶ and ❷.
- Take off the engine sprocket cover.
- Open the chain. (📖 p. 134)



Info

Cover the components to protect them against damage.

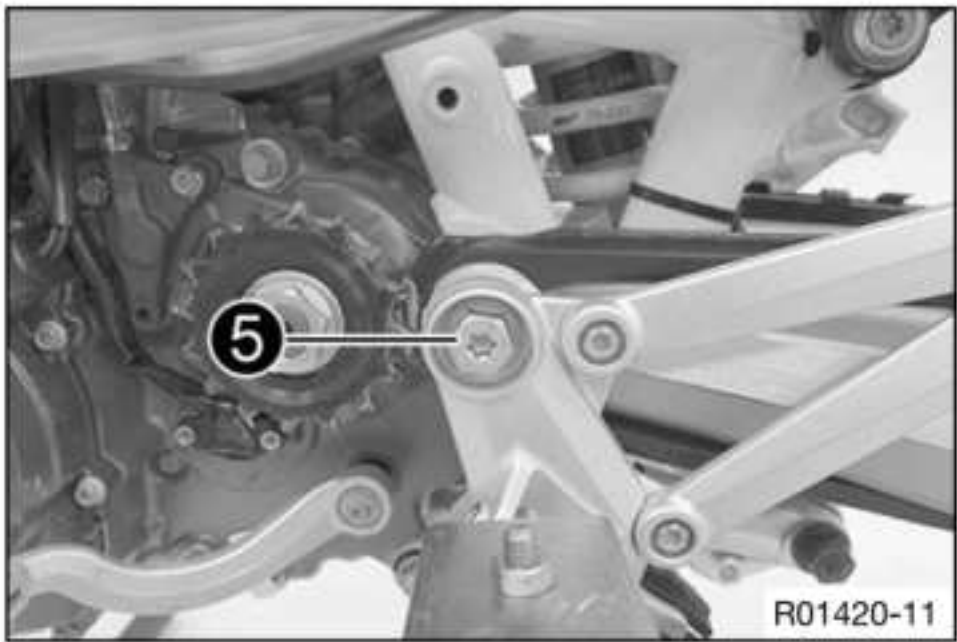
- Take off the chain.



- Remove fittings ❸.
- Hang the foot brake cylinder to the side.

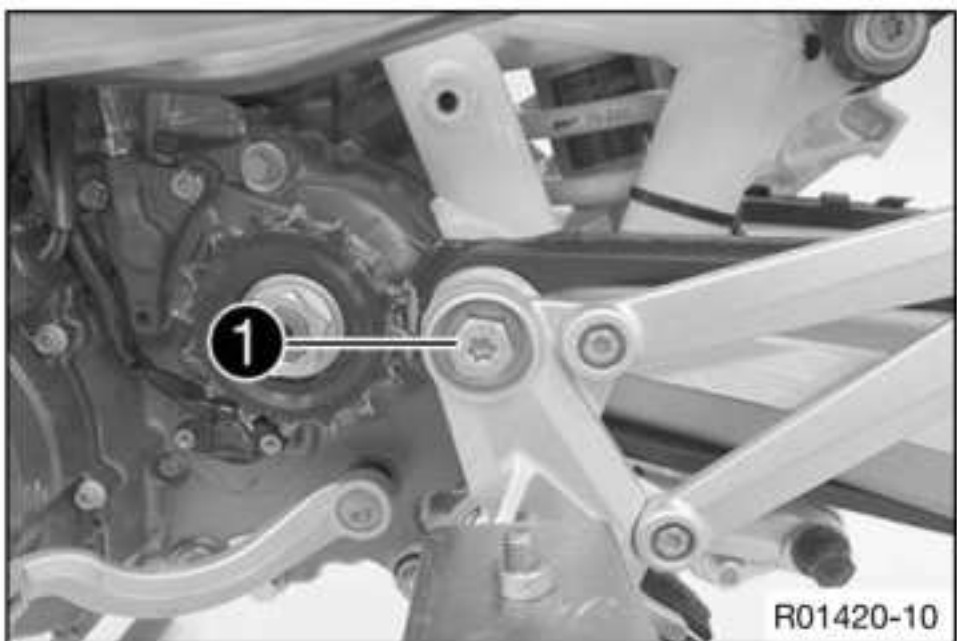


- Remove fitting 4.
- Lower the link fork.



- Remove screw 5.
- Remove the fork pivot.
- Take off the link fork.

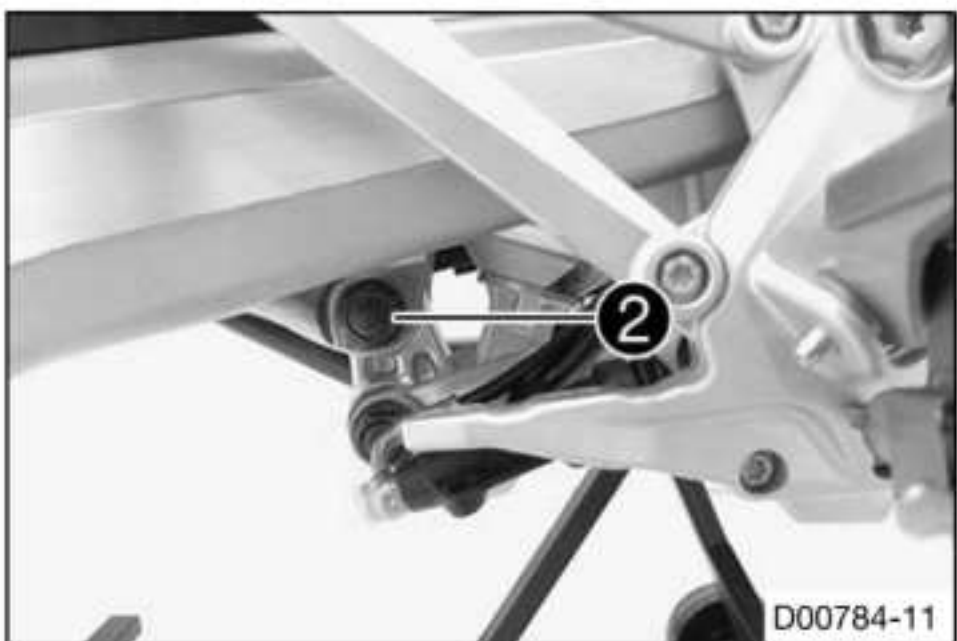
9.30 Installing the link fork



- Main work**
- Position the link fork.
 - Mount the fork pivot.
 - Mount and tighten screw 1.

Guideline

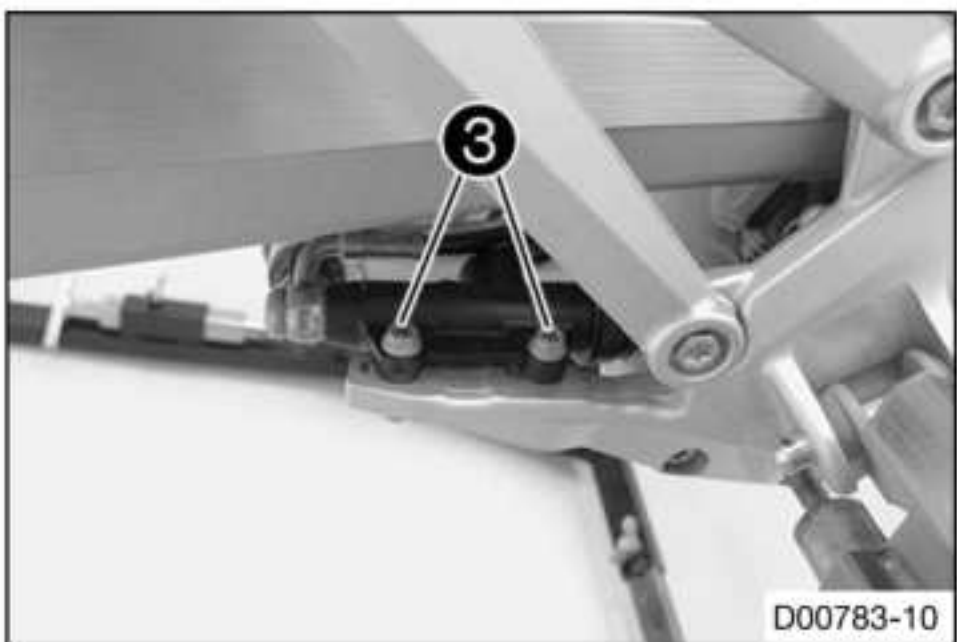
Screw, swingarm pivot	M12	80 Nm (59 lbf ft)
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- Lift the link fork.
- Mount and tighten fitting 2.

Guideline

Nut, angle lever to link fork	M14x1.5	100 Nm (73.8 lbf ft)
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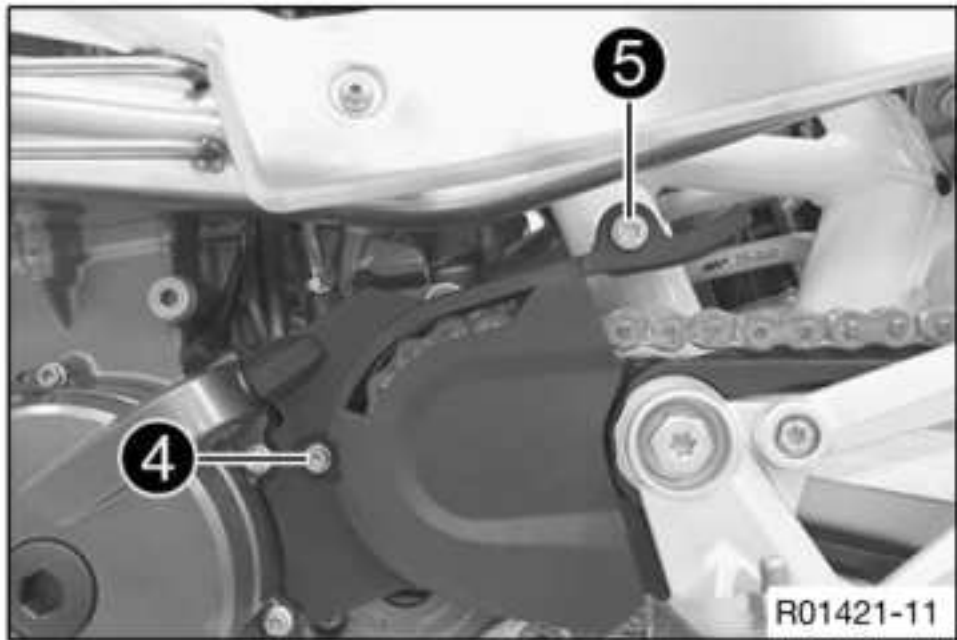


- Position the foot brake cylinder.
- Mount and tighten fittings 3.

Guideline

Screw connection, foot brake cylinder	M6	10 Nm (7.4 lbf ft)
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9 SHOCK ABSORBER, LINK FORK



- Mount the chain.
- Rivet the chain. (📖 p. 134)
- Position the engine sprocket cover.
- Mount and tighten screw 4.

Guideline

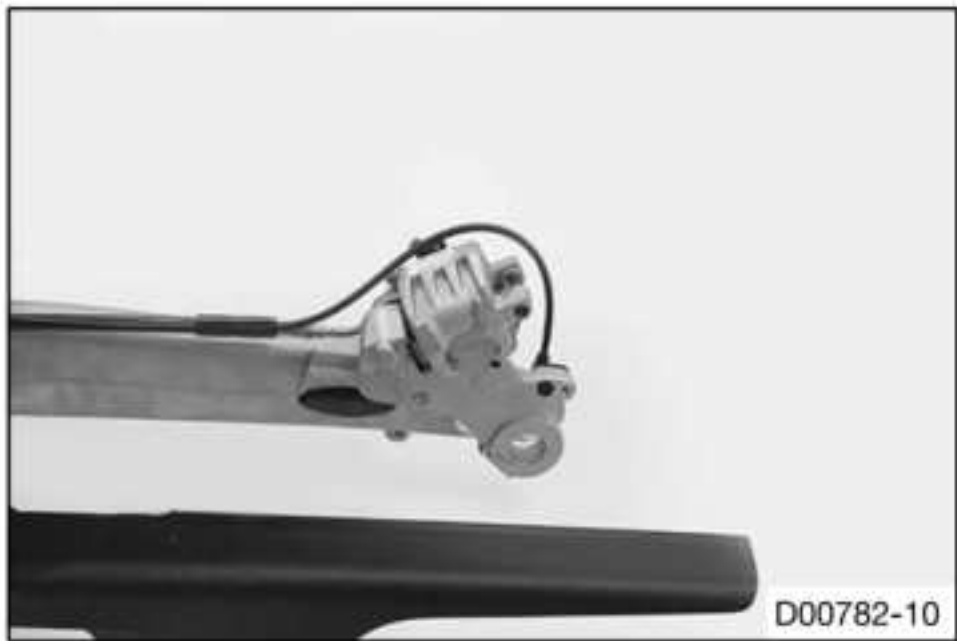
Screw, clutch slave cylinder	M6x40	10 Nm (7.4 lbf ft) Loctite®243™
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- Mount and tighten screw 5.

Guideline

Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)
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- Position the brake caliper in the guide.



- Position the brake line in the guide.

Finishing work

- Install the rear wheel using a work stand. (📖 p. 122)
- Remove the motorcycle from the work stand. (📖 p. 15)
- Check the chain tension. (📖 p. 130)
- Check the free travel of the foot brake lever. (📖 p. 161)

9.31 Changing the fork bearing

Preparatory work

- Raise the motorcycle with the work stand. (📖 p. 14)
- Remove the rear wheel using a work stand. (📖 p. 120)
- Remove the link fork. (📖 p. 76)