

1.1 Changing the piston of the hand brake cylinder



Warning

Skin irritation Brake fluid causes skin irritation.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



Note

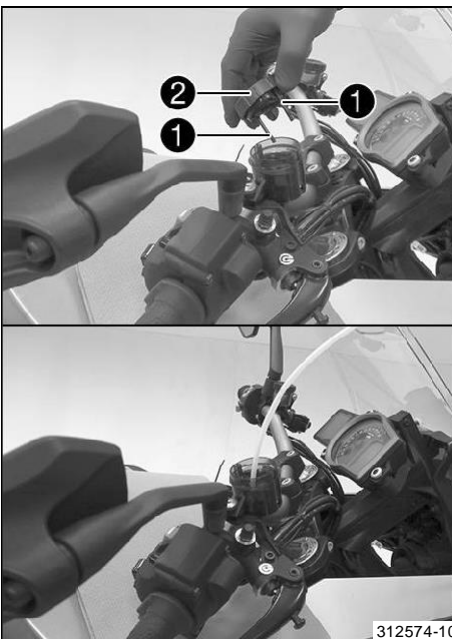
Environmental hazard Hazardous substances cause environmental damage.

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



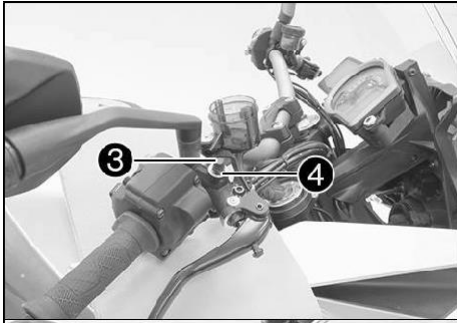
Info

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint!
Use only clean brake fluid from a sealed container.



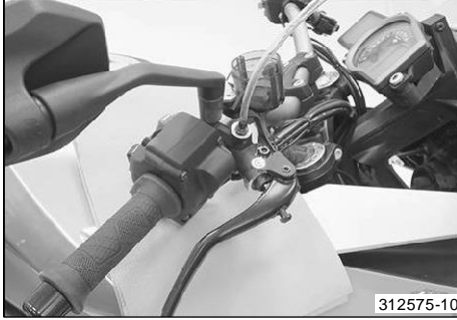
- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Cover painted parts.
- Remove screws **1**.
- Take off cover **2** with the membrane.
- Extract the old brake fluid out of the brake fluid reservoir using a syringe.

Syringe (50329050000)

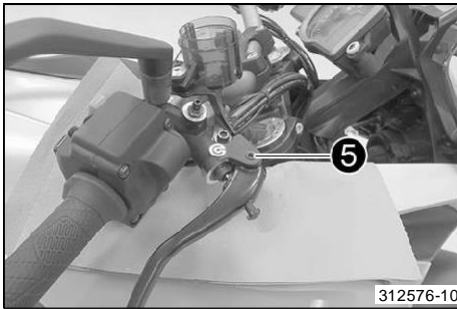


- Pull off protection cap **3** of the bleeder screw.
- Open bleeder screw **4** by approx. one half turn.
- Extract old brake fluid with a syringe.

Syringe (50329050000)

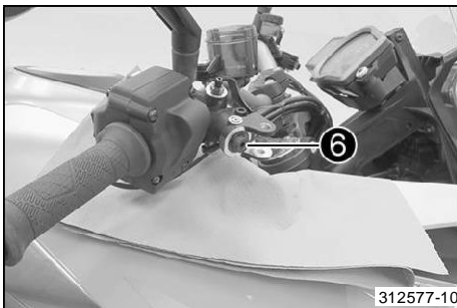


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- Remove fitting **5**.
- Take off hand brake lever.



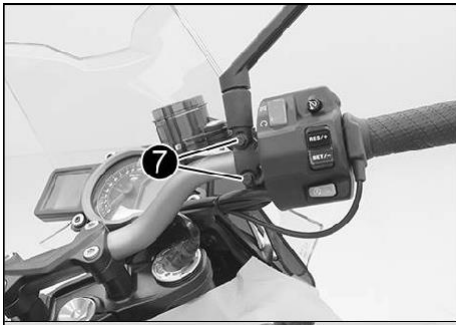
312577-10

- Remove sealing cup **6**.



Info

Do not damage the sealing cup.



- Loosen screws 7.
- Lift up the brake assembly slightly.

i **Info**
When doing so, make sure the hand brake cylinder points upwards so that air cannot find its way into the brake line.

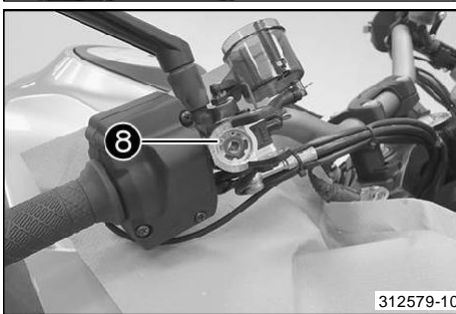
- Tighten screws 7 hand-tight.



312578-10

- Remove lock ring 8.

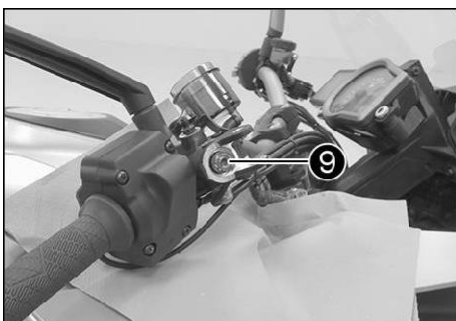
i **Info**
The piston is spring loaded.
Make sure that the piston does not fall out of the hand brake cylinder.



312579-10

- Remove piston 9.

i **Info**
Place a container underneath as brake fluid will run out in most cases.



312580-10

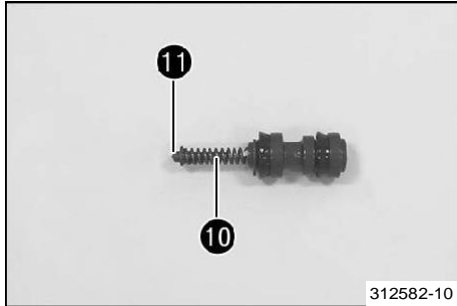


- Thoroughly oil new piston **9** with assembly fluid.

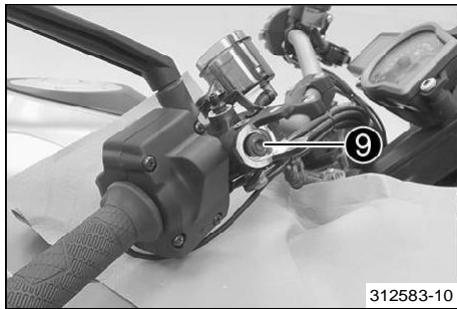


Info

Assembly fluid is included in the kit.



- Mount spring **10** and push rod **11**.

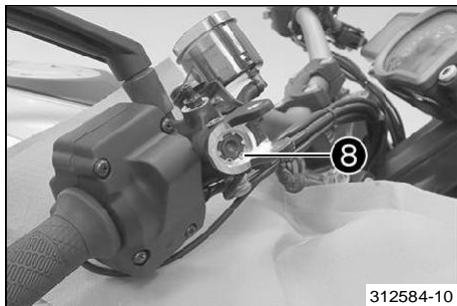


- Mount piston **9**.



Info

Ensure that the sealing cups are not damaged.

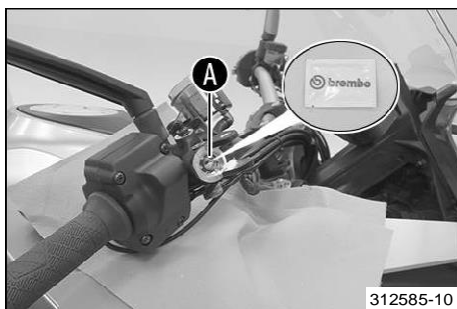


- Press piston into the hand brake cylinder.
- Mount lock ring **8**.



Info

Check that the lock ring is correctly seated.

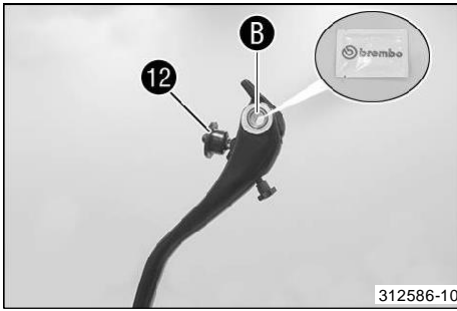


- Grease piston in the **A** area.



Info

Grease is included in the kit.

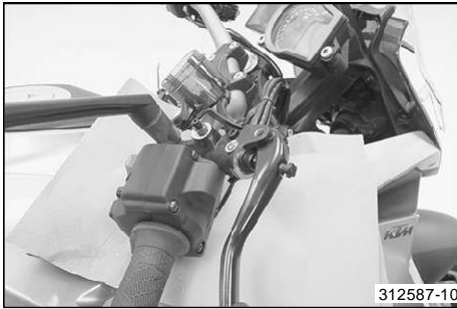


- Mount new sealing cup **12** on the push rod of the hand brake lever.

i **Info**
Do not damage the sealing cup.

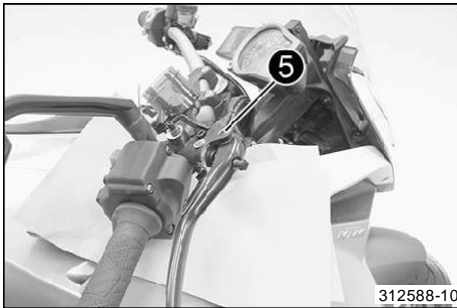
- Grease hand brake lever in the **B** area.

i **Info**
Grease is included in the kit.



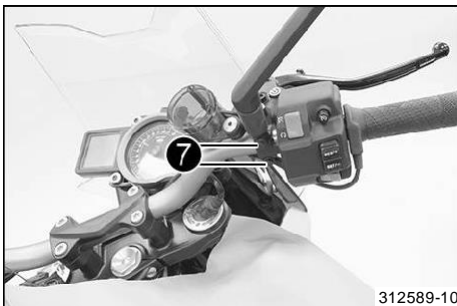
- Position hand brake lever.
- Mount sealing cup in the hand brake cylinder.

i **Info**
Do not damage the sealing cup.
Ensure that the sealing cup is correctly seated.



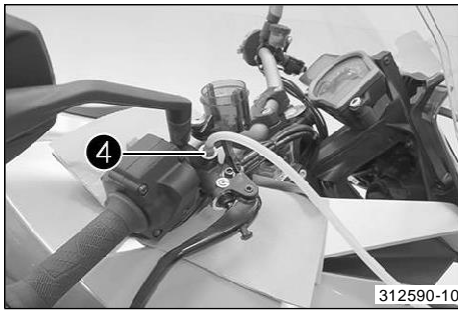
- Mount and tighten fitting **5**.

Hand brake lever fitting	M6	10 Nm (7.4 lbf ft)
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- Loosen screws **7**.
- Position brake assembly.
- Mount and tighten screws **7**.

Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)
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- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Fill with new brake fluid.

Brake fluid DOT 4 / DOT 5.1

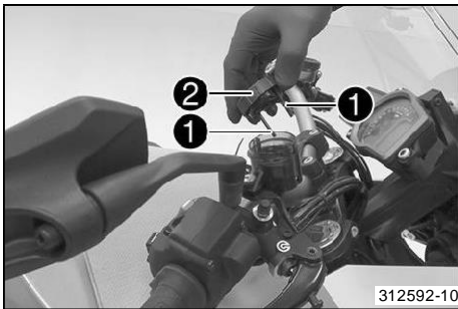
- Bleed the front brake system using a pneumatic or vacuum type brake bleeding device.



Info

Follow the instructions in the Owner's Manual of the bleeding device.

- Connect the bleeding device.
- Operate the bleeding device until fresh brake fluid emerges from the hose of the devices bleeder bottle without bubbles.
- Disconnect the bleeding device when finished with the bleeding process.
- Tighten the bleeder screws.
- Mount protection cap of the bleeder screws.



- Correct the brake fluid to the **MAX** marking.

Brake fluid DOT 4 / DOT 5.1

- Position cover **2** with the membrane. Mount and tighten screws **1**.



Info

Clean up overflowed or spilled brake fluid immediately with water.

- Check the hand brake lever for a firm pressure point.

Finishing work

- Confirm solid brake pressure and carry out a test ride of the motorcycle.