

## INSTRUCTION FOR REPLACING THE BRAKE AND CLUTCH MASTER CYLINDER



### **Advice for use**

These products are only to be installed by qualified technicians.  
Ensure that the master cylinder is operating correctly before use.

These parts are intended for exclusive racing use on closed tracks. Their usage on public highways and roads may be forbidden.

### **Correct procedure for replacement of old master cylinder**

Before starting to disassemble the O.E. master cylinder, remove parts of the bike that may interfere or are liable to suffer damage from brake fluid such as fairing panels, mudguards etc.

Have plenty of cloth or paper towels ready to absorb spilled brake fluid and water to wash fluid away.

#### ➤ **Disassembly**

Remove the micro switch and wiring if present on the old master cylinder.

Attach a clear pipe to one caliper bleed nipple and place the other end in a jar, open the bleed nipple & pump the brake lever until fluid stops coming through, close the bleed nipple.

Remove the brake line banjo bolt.

**Warning:** while doing this, protect with a cloth parts of the bike that might come in contact with brake fluid.

If necessary, remove the brake fluid reservoir mount leaving it connected to the master cylinder tube.

Unscrew the O.E. master cylinder mounting bolts and remove the whole master cylinder assembly from the handlebar.

**Note:** disassembly processes should be performed very carefully making sure that brake fluid does not damage parts of the vehicle (eg. painted parts, plastics, rubber parts).

Clean any spilled brake fluid.

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## ➤ Assembly

Mount the Accossato master cylinder on the handlebar & partially tighten the 2 x M6 bolts (1).

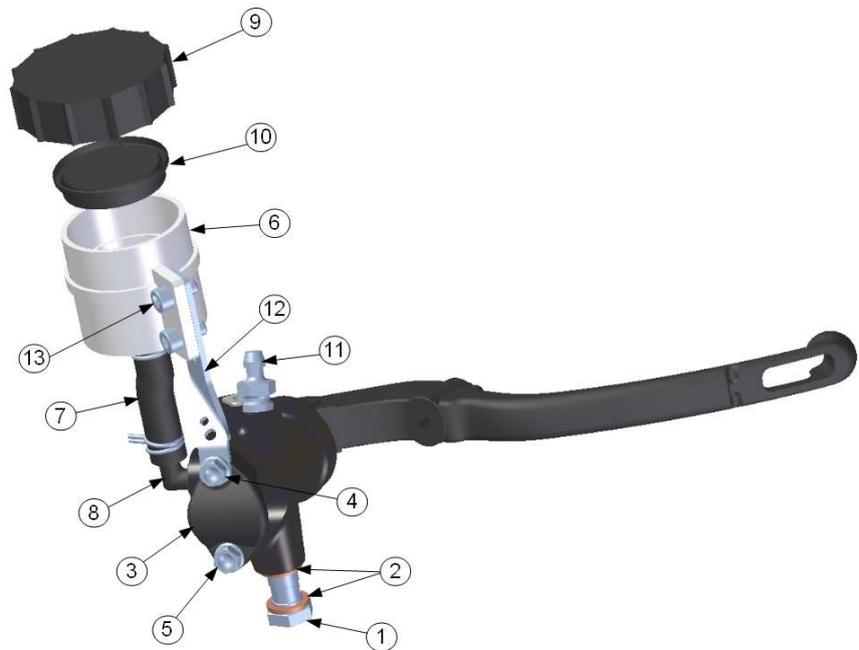
Offer up the brake line/s to the new master cylinder (depending on the type of O.E. master cylinder it may be necessary to obtain new lines suitable for a radial master cylinder. Loosely attach the brake line/s using new copper washers (2) and an M10x 1.00 banjo bolt (1) or Accossato pressure brake light switch IRDOSTOP if needed.

Attach the O.E. reservoir if suitable or Accossato reservoir kit.

If using the Accossato kit, attach the mounting bracket using the uppermost M6 bolt (4) & lightly tighten. Measure & cut a suitable length of pipe included in KITVG and join to the reservoir & master cylinder with the supplied clips.

Adjust the master cylinder to the required position on the handlebar & equally tighten the 2 x M6 bolts (4 - 5) then torque to 10 Nm MAX, ensuring the brake lines remain in correct alignment.

Tighten the banjo bolt (1) or pressure brake light switch to a tightening torque of 23-26 N/m



## ➤ Bleeding

It may be necessary to have a 2nd person to assist with the bleeding operation.

Once the master cylinder is installed, fill the reservoir with fresh clean brake fluid (**DOT 4 Accossato oil recommended**)

**Warning:** verify that the original brake fluid is compatible with the new fluid being used otherwise the brake lines & calipers must be completely drained & flushed through before bleeding commences.

To assist removing air from the master cylinder/reservoir ensure the reservoir is as high as possible by placing the bike on its side stand or leaning it to the left & turning the handlebars fully left.

Remove the rubber cap from the master cylinder bleed nipple and attach a rubber hose (preferably transparent so you can see the passage of the liquid and air).

**Warning:** collect the liquid into a suitable container for disposal.

**Warning:** during bleeding, the brake fluid level in the reservoir should be watched & topped up as necessary.

1- Gently pump the lever a few times then hold it pulled in to the handlebar.

2- Loosen the bleed nipple without releasing the lever.

3- After a few seconds, close the bleed nipple.

4- Release the lever.

Repeat steps 1 to 4 many times.

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Remove the tube from the bleed nipple and tighten same to a torque of **8-10 N/m**.

Clean the nipple with a cloth and cover it with the rubber cap.

It may also be necessary to do the bleeding operation on the brake caliper/s.

Tighten the caliper bleed nipple/s to manufacturers specification.

During the bleeding process, with closed bleed nipple, the lever feel should become increasingly hard and fewer bubbles should emerge from the master cylinder. Repeat until clear brake fluid flows from the caliper bleed nipples with NO air bubbles.

After performing this procedure, it is necessary to restore brake fluid level to the MAX mark.

Using a damp cloth clean the parts of motorcycle that came in contact with brake fluid.

Check the whole braking system carefully for leaks.

Dispose of the old brake fluid in accordance with applicable law.

## ➤ Warranty general conditions

### 1. Exceptions

ACCOSSATO warranty cannot be applied on:

- a) Products used for motorcycle competitions of any kind
- b) Products used on rented vehicles
- c) Products with damage due to accidents, neglect or overload.
- d) Damages caused by atmospheric agents or oxidation during use.
- e) Damages that customer knew at delivery time.
- f) Products disassembled, modified or repaired by non-authorized persons external to ACCOSSATO system.
- g) Defects caused by improper use

### 2. Customer duties

2.1 In order to keep the present warranty efficient, customer must:

- a) show sale receipt and date proving product purchase
- b) inform ACCOSSATO about damages within 7 days from their first appearance
- c) Adhere to instructions and warnings provided by ACCOSSATO.

In case of not accordance to point 1.1 the present warranty default.

### 3. Responsibilities

3.1 ACCOSSATO guarantee its products only when used for their purpose and not for any other usage.

Products damaged by improper use or modified by third parties will not be warranted by ACCOSSATO.

3.2 ACCOSSATO is not responsible in case of damages to persons or things caused by its whole products or during their use.

3.3 Defectiveness or delays in repair processes or in replacements by ACCOSSATO do not entail any compensation request nor extension of warranty.

3.4 ACCOSSATO reserve the possibility to modify or enhance its products, without modifying its products already sold.

3.5 In case of controversies will be competent the Turin Court. This warranty is in conformity with Italian laws.

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## **4. Use of racing products not homologated**

4.1 Assembly of not homologated racing products could influence on the conformity of the motorcycle. It could violate the ordinary law.

4.2 Referring to racing products:

- customer must verify their conformity to homologation and traffic laws concerning to the country in which are used.
- Accosato is not responsible for violation of law by customers.

## **5. Duration warranty:**

24 months to purchasing

## **The contents of the box**

Complete master cylinder unit.

The master cylinder is supplied without brake fluid.