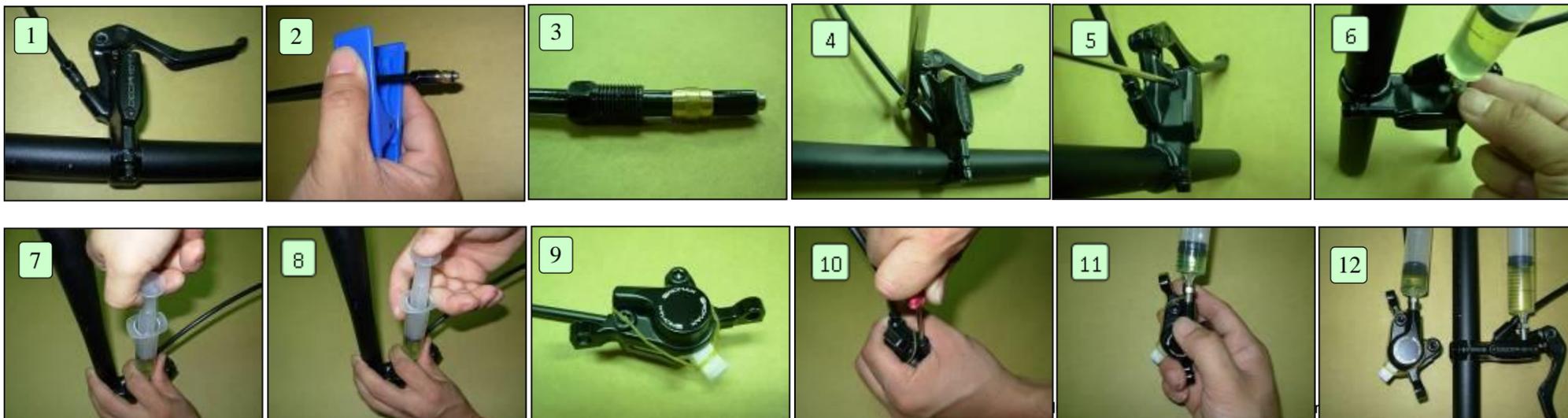


PROMAX DSK-913 HYDRAULIC DISC BRAKE MAINTENANCE



REPAIR AND MAINTENANCE

"PROMAX" hydraulic disc brake uses DOT.4 brake fluid. It is compatible with other brands of DOT.4. (But don't mixed use with different brands)

PRECAUTION:

- 1) Never use the brake fluid other than DOT.4 Series or add any mineral oil to "PROMAX" hydraulic disc brake. Otherwise, the rubber parts in the hydraulic system will be damaged and braking function may be lost.
- 2) After a certain period of application, the temperature resistance of the brake fluid will be decreased. For safety, it is recommended to change the brake fluid periodically about every 1 year.
- 3) DO NOT try to disassemble or modify the hydraulic disc brake in any way. Service on this product MUST be performed ONLY by qualified professional mechanics that are familiar with and understand the technical details of how this product works.

1. Brake hose cut-short process

Tools and Accessories Required:

- Clip ring x 1
 - Hose connector x 1
 - Hose bolt x 1
 - Hose cutter
 - Hose Wrench : 8mm
 - Tape Measure
 - Tissue Paper
- ※ Use PROMAX DC913 designated brake hose.

- 1) Place the bike in a steady standing position.
- 2) Loosen hose bolt completely with an 8mm hose wrench. Pull hose away from the lever bracket. Shake hose to make it easier to pull out if necessary. Take care to avoid the residual fluid leaking. Wipe and make it clean if the brake fluid leaks. [<Photo 1>](#)
- 3) Measure the hose length needed according to the size of front fork/frame with tape measure. Cut brake hose with hose cutter. [<Photo 2>](#)

NOTICE:

- a. Please reconfirm again that hose length is enough before cutting. The hose cannot be longer after cut-short.
- b. The cut end should be clean, flat and perpendicular to the hose itself.
- c. Do not depress the lever during the whole hose cutting process because it will let the brake fluid flow out or spurt.

- 4) Slide hose bolt over the hose first and clip ring second. [<Photo 3>](#)
- 5) Hold hose tight; push hose connector into the end of the hose.

NOTICE: Hose connector must be fully pressed into brake hose without gap or fluid leakage may occur and lead to the brake system failure.

- 6) Insert brake hose completely into the screw hole of lever bracket or caliper. Let clip ring slip into the screw hole. While pushing the brake hose, tighten the hose bolt. (locking torque 110~120 kg-cm) [<Photo 4>](#)
- 7) Add brake fluid according to the procedure of "Adding brake fluid".

WARNING : The "hose bolt", "clip ring" and "hose connector" must be tightened enough. Or it will cause hose loose and fluid bleeding, which will lead to brake system failure and rider injury.

2. Adding brake fluid / Air bubbles removal

Tools and Accessories Required:

- Empty can for fresh fluid
- Fresh DOT.4 brake fluid, 10 cc
- Allen wrench : 3 mm&4mm
- 20cc injector M5
- Tissue Paper

- 1) Place the bike in a steady standing position.
- 2) Loosen lever bracket with a 4mm Allen wrench. Turn the lever bracket till the fluid-filling hole beside the oil reservoir is upright and tighten the lever bracket.
- 3) Remove the fluid-filling bolt with a 3mm Allen wrench. Suck about 10cc fresh brake fluid into M5 injector and exhaust the air inside. Lock into fluid-filling hole by hand. [<Photo 5,6>](#)
(Check the o-ring on the bolt is still good or not. If it is damaged, change a new one)

continuing pressing the plunger to add brake fluid. Repeat press-pull loop several times until there is no bubble coming out. [<Photo 7,8>](#)

NOTICE:

- a. Make sure that the injector is fully locked into fluid-filling hole and sealed. If there are continuous air bubbles coming up while pulling the plunger of the injector, lock the injector tighter (or use an 8mm open wrench).
 - b. When installing injector, turn the steel screw. Do not turn the plastic part of the injector or the plastic joint may be broken.
 - c. Hold the outer body of injector and actuate the plunger of injector to prevent plastic part breaking during pressing and pulling injector. [<Photo 7,8>](#)
- 5) Before removing the injector, press slightly the plunger to make the reservoir is under positive pressure. Then remove the injector. If the screw hole is not full of fluid, you may need to repeat step 4.
 - 6) Tighten the fluid-filling bolt. (locking torque 20~30 kg-cm) Clean lever bracket with wet tissue paper.
 - 7) Depress brake lever several times. If the brake feeling is stiff, it means the brake is ready for service. Adjust lever bracket to preferred angle. If not, there must be some air inside the brake system. Redo step 3 to 6.

3. Brake fluid replacement

Tools and Accessories Required:

- 2 empty cans for fresh & used fluid
- Fresh DOT.4 brake fluid, 25 cc
- Torx wrench, T10
- Allen wrench 3, 4, 5mm
- Minus screw driver
- 20cc injector, M5 x 2
- Spacer, 10.5mm thick

- 1) Place the bike in a steady standing position.
- 2) Loosen lever bracket with a 4mm Allen wrench. Turn the lever bracket till the fluid-filling hole beside the oil reservoir is upright and tighten the lever bracket.
- 3) Remove the caliper from the fork/frame, leaving the adapter on the fork/frame.
- 4) Insert a "minus screw driver" into the gap of brake pads, push brake pads back to the end. Remove brake pads and pad spring. (See the instruction for "Pad Removal") Clean pad recess of caliper.
- 5) Insert 10.8mm spacer into pad recess and lock it with a rubber band. [<Photo 9>](#)
- 6) Remove the drain bolt on the caliper with T10 Torx wrench. Lock empty M5 injector into the drain hole. [<Photo 10,11>](#) (Check the o-ring on the bolt is still good or not. If it is damaged, change a new one)
- 7) Remove the fluid-filling bolt on lever bracket with a 3mm Allen wrench. Suck fresh brake fluid fully into another M5 injector (about 25C.C.) and exhaust the air inside. Lock into fluid-filling hole by hand.
- 8) Push the plunger of injector on lever bracket side to add fresh brake fluid into the brake system till there is only a little brake fluid left in the injector. (About 5C.C.) Do not let the air inside injector get into the brake system. Simultaneously, the used fluid will come out from caliper and get into another injector.
- 9) Move caliper to about the same height position as lever bracket and remove caliper side injector. [<Photo 12>](#) Tighten the drain bolt back. (locking torque 20~30 kg-cm)
Dispose of the used brake fluid in injector properly.
- 10) Bleeding the air per "Adding brake fluid" Step 4 to 7.
- 11) Remove 10.8mm spacer from caliper. Clean caliper and brake hose with wet tissue paper. Reassemble brake pads and pad spring. (See the instruction for "Pad Removal")
- 12) Reassemble caliper back to the fork/frame and adjust lever bracket to preferred angle.

WARNING:

- a. Every bolt should be fastened to the correct torque during the operation. Strongly recommend using a torque wrench to assemble all parts.
- b. DOT.4 brake fluid will corrode the painting. If the brake fluid gets on the lever bracket or caliper, clean it with wet tissue paper immediately.
- c. DOT.4 brake fluid is harmful to your skin and eyes. Do wear appropriate work clothes, glove and goggles during working.