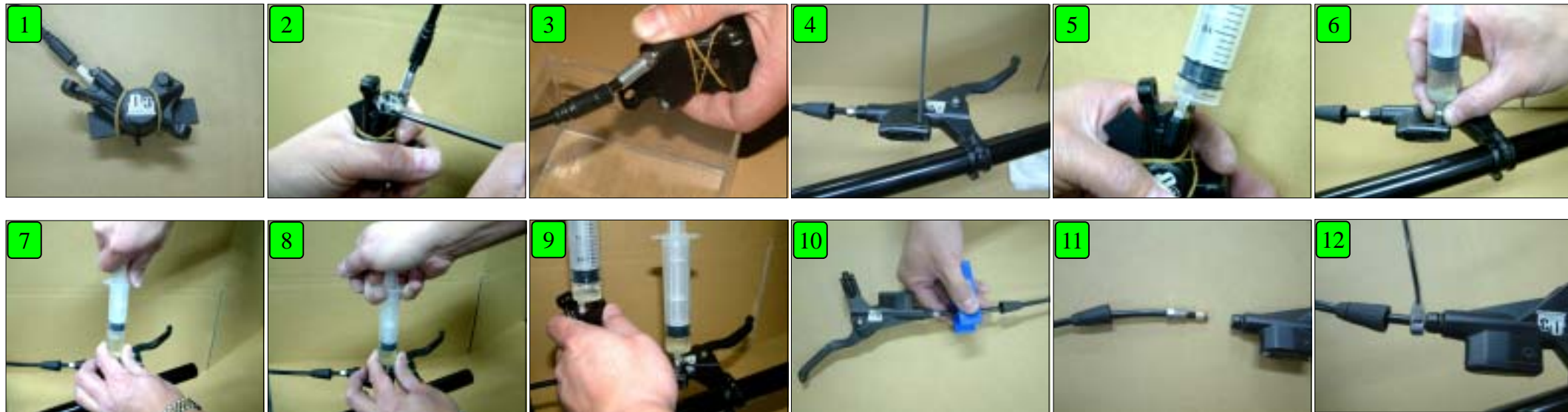


PROMAX DSK-905 DISC BRAKE MAINTENANCE MANUAL



REPAIR AND MAINTENANCE

"Promax " hydraulic disc brake uses CCI DOT#4 brake fluid. It is compatible with other brands of DOT4. (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 oil seal 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 necessary to change the brake fluid periodically about every 2 years.

1. The change of brake fluid:

Tools and Accessories Required:

- empty can for changed fluid
- fresh brake fluid, 25 cc
- open wrench, 8mm
- Allen wrench 3 & 4mm
- 20cc injector, M5 & M7
- plate, 2.6mm thick

- 1) Place the bike in a steady standing position.
- 2) Disassemble the caliper from the fork or frame, insert 2.6mm plate between two pads. <Photo 1>
- 3) Loose the lever bracket with a 4mm Allen wrench. Turn the lever bracket till the fluid filling hole on the side of the oil reservoir is upward and tight the lever bracket.
- 4) Disassemble the drain bolt on the caliper with an 8 mm open wrench. Align drain hole with an empty can and depress brake lever several times to drain the first step brake fluid. Disassemble the fluid filling bolt on the side of the oil reservoir with a 3mm Allen wrench and depress brake lever several times again to drain all of the brake fluid. Dispose of the changed fluid properly and clear all residual brake fluid. <Photo 2,3,4>

(Check the o-ring on the fluid filling bolt is still good or not. If it is damaged, change a new one)

- 5) Lock the M7 injector into drain hole of caliper by hand. Suck 25cc fresh brake fluid into M5 injector and lock into fluid filling hole of lever bracket by hand. <Photo 5,6>

6) Begin to inject brake fluid:

- a) Put caliper at the lowest position. Pull M7 injector first to suck the air inside caliper out till brake fluid flows about 10cc into the M7 injector and then slightly pull M5 injector to suck the air inside lever bracket out and go on with pressing M5 injector to inject brake fluid. Repeat press-pull loop on M5 injector several times to inject fluid and eliminate all the air inside. <Photo 7,8>

NOTICE: 1. When installing injector, turn the steel screw. Do not turn the plastic part of the injector or the plastic joint may be breaking. <Photo 6>

2. If the air bubbles come out very fast it is possible that the sealing of the injector is not good. Please make the injector tighter (or use a 8mm open wrench).

3. Please hold the outer body of injector and act the piston of injector to prevent plastic part breaking during pressing and pulling injector. <Photo 7,8>

4. Please leave at least a little fluid inside injector and avoid air in the injector getting into brake system again during pressing and pulling injector.

5. The duration of pulling is about 5 seconds and pressing is about 3 seconds.

- b) Act a slight press on the M5 injector. Move caliper to the same height (or higher) of fluid filling hole and remove M7 injector. Securely tighten the drain bolt back into caliper. (tightening torque 120 kg-cm) <Photo 9,2>

NOTICE: If the caliper is lower than the fluid filling hole, the fluid will flow out by gravity while opening the injector.

- c) Repeat press-pull loop on M5 injector several times till no air bubbles appear and then act a slight press on the M5 injector. Remove 2.6mm plate between two pads and push the two pads back to the widest position.

- d) Wait about 5 seconds. Remove M5 injector and tighten back the fluid filling bolt. (tightening torque 20~40 kg-cm) <Photo 4>

- e) Clean caliper, lever bracket and brake hose with a wet towel.

- 7) Reassemble caliper onto the fork or frame and adjust lever bracket to preferred position.

8) Braking pressure built-up test:

Depress brake lever several times. The holding feeling should become stiff, it means the braking system is ready for service. If not, being depressed brake lever many times, it means there is still some air existed inside the braking system. Do the process of "Adding brake fluid" as shown below.

2. Adding brake fluid:

Tools and Accessories Required:

- empty can for changed fluid
- fresh brake fluid, 10 cc
- Allen wrench 3 & 4mm
- 20cc injector, M5
- plate, 2.6mm thick

- 1) Place the bike in a steady standing position.
- 2) Disassemble the caliper from the fork or frame, insert 2.6mm plate between two pads. <Photo 1>
- 3) Loose the lever bracket with a 4mm Allen wrench. Turn the lever bracket till the fluid filling hole on the side of the oil reservoir is upward and tight the lever bracket.
- 4) Disassemble the fluid filling bolt on the side of the oil reservoir with a 3mm Allen wrench, Suck about 10cc fresh brake fluid into M5 injector and lock into fluid filling hole by hand. Slightly pull M5 injector to suck the air inside lever bracket out and go on with pressing M5 injector to inject brake fluid. <Photo 4,6,7,8>
(Check the o-ring on the fluid filling bolt is still good or not. If it is damaged, change a new one)
- 5) What follows according to process "6), c)" and the rest of "The change of brake fluid".

3. Brake hose cut-short process:

Tools and Accessories Required:

- Clip ring x 1
- Hose connector x 1
- Hose bolt x 1
- Hose cutter x 1
- O-ring x 1
- Tools required for changing fluid

Use PROMAX DC905 designated brake hose

- 1) Place the bike in a steady standing position.
- 2) Pull dust cap away from lever bracket. Disassemble lever bracket from bike.
- 3) Cut brake hose according to preferred length which is refer to the dimension of fork or frame with hose cutter. <Photo 10>
NOTICE: The length you measure should be from caliper side because only lever bracket end of brake hose can be reassembled by the user.
- 4) Remove the remained brake hose left on lever bracket with a 8mm open wrench. Remove the o-ring on the hose connector.
(It is recommended to use a special open wrench for tube bolt.)
- 5) Insert Hose bolt first and clip ring second. The smaller end of clip ring must be inward (face hose bolt). <Photo 11>
- 6) Press hose connector into brake hose and apply o-ring on the hose connector. <Photo 11>
PRECAUTION: Connector must be fully pressed into brake hose or fluid leakage may occur and lead to brake failure.
- 7) Insert brake hose into the screw hole of lever bracket. Let clip ring drop into the screw hole. While pushing the brake hose, tighten the hose bolt. (tightening torque 100~120 kg-cm) <Photo 12>
- 8) Pull dust cap back to the assembly position.
- 9) Add brake fluid according to the procedure of "Adding brake fluid".