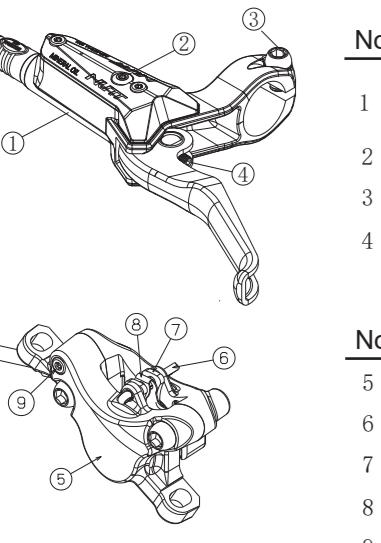




## Y-2 HYDRAULIC DISC BRAKE

congratulations-your new bicycle has been fitted with the powerful, low-maintenance hydraulic NUTT disc brakes! please read these user instructions carefully before you use your NUTT product. Always observe and follow all instructions in user.

### SECTION 1 : GENERAL WARNING



No.	Des	Qty
1	Brake handlebars assembly	1
2	Bleed screw	1
3	Clamp screw	1
4	Push rod	1

No.	Des	Qty
5	Caliper assembly	1
6	Disc pad pin	1
7	Disc pad	2
8	Disc pad spring	1
9	Bleed screw	1

### STANDARD FITTINGS

1.Y-2 caliper is compatible with MANITOU front forks with a distance between mounting of 74.2mm. It can be converted to international standards by using our front or rear adaptor brackets.

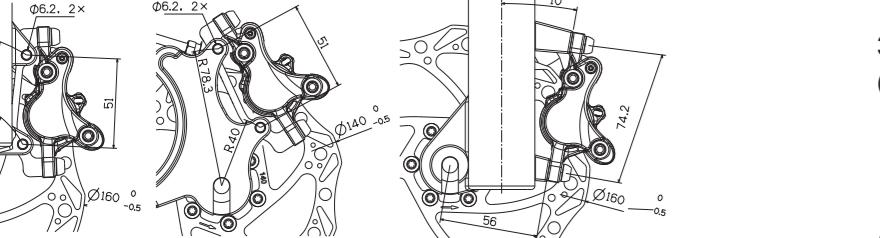
2.Mounting bolts: M6 x 18mm (incl. washer) x 4 pcs.

3.Disc rotor: 160 for the front and 140 for the rear; using adaptor brackets, it can be 180 for the front and 160 for the rear or 203 for the front and 180 for the rear.

### RELATED MOUNTING SPECIFICATIONS

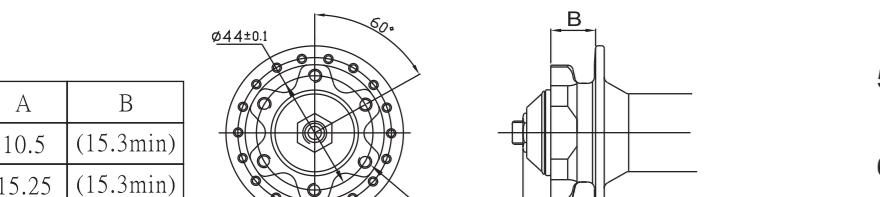
#### 1.Specifications of front fork and rear dropout

Y-2 is compatible to International Standard and MANITOU front forks, see drawings below:



#### 2.Hub

The specifications of the hubs for Y-2 disc brake system is the same as international standards, see drawings below:



### 3.Caliper

Y-2 caliper is completely sealed, and has been tested to take high pressure. DO NOT loosen any screw/bolt on the caliper (the bleed screw can be loosened only when changing brake fluid); otherwise it could cause leaking and consequently no braking.  
\*Warning: No brake fluid leaking is allowed. Riding should be stopped at once when there is leaking. Repairing should be performed by qualified dealers!

### 4.Rotor

Y-2 rotor specifications are 160 x 1.8mm (thickness) for front, 140 x 1.8mm for rear. They can be 180 x 1.8mm for front, 160 x 1.8mm for rear or 203 x 1.8mm for front, 180 x 1.8mm for rear when using adaptor brackets.

\*Warning : 1. Under normal riding condition, there will be slight wear on the rotor, wear will be greater after more braking. Therefore it is required to check the wear on rotor regularly (Thickness1.5) . The disc rotor should be changed when it has been deformed or thickness 2. After a long time and or intensive braking, the temperature of the rotor becomes high. Do not touch the rotor.

### SECTION 2 : INSTALLATION & ADJUSTMENT

#### □ ASSEMBLY

\*Warning: As the brake pads are self-adjusting. DO NOT pull the brake lever before it is fully assembled with the rotor in the caliper slot. The more pulls on brake lever without the rotor in the caliper slot makes the gap between brake pads becomes too narrow. If the brake pad space is too small, insert spacer between brake pads to increase gap and push them back to attain the ideal gap.

1.Use the 6 rotor screws (T25 Torquekey, Torque 50-60 kgf-cm) to tighten the disc rotor onto the disc hub.

\* Caution:  
(1). Wear gloves first to avoid contamination to rotor by bare hands.  
(2). The 6 rotor screws must be tightened before riding.  
(3). The 6 rotor screws should be tightened in a diagonal sequence.  
(4). The 6 rotor screws should be replaced after disassembly for 3-4 times as the Nylock will not function correctly.  
(5). Use cleaning naphtha to remove contamination on rotor.  
(6). Do not allow any oil or grease to get onto the rotor. If the rotors become contaminated, please use cleaning naphtha to clean.

2. Assemble the wheel on to the front fork or rear dropout and then tighten the screws.

3. Assemble the caliper on to the front fork or rear dropout :

(1). International standard front fork :  
\*Tighten the front or rear adaptor bracket onto the front fork or dropout. (Use 2 pcs M6x18 mm bolts, Torque 905 kgf-cm).  
\*Mount the caliper to the adaptor bracket with 2pcs M6x18 bolts  
(Do not tighten the bolts, so that the caliper can move freely on the bracket).  
(2). MANITOU fork :  
Mount the caliper to the MANITOU fork with 2 pcs M6 x 18 bolts.  
(Do not tighten the bolts, so that the caliper can move freely on bracket)  
4. Pull the brake lever to make the brake pads clamp to the disc rotor.  
(Torque 30-35 kgf-cm).

5. Pump brake lever 5-8 times then pump and hold brake lever. And then alternatively gradually tighten the M6 screws. (Torque 905 kgf-cm)

6. Spin the wheel to make sure the disc rotor is clear to brake pads. If it is not clear then slack the bolts and redo step V above.

7.To adjust reach of brake lever's push rod, use 2mm Allen key to adjust reach. (Clockwise for larger angle; Anti-clockwise for smaller angle.)

8.Test riding:  
Braking force on the first 10-30 pulls is not as powerful.  
\*Warning: No brake fluid leaking is allowed. Riding should be stopped at once when there is leaking. Repairing should be performed by qualified dealers!

### SECTION 3 : REMOVING THE PADS

#### □ Maintenance

##### 1.Brake pad replacement:

Y-2 hydraulic caliper is designed with self-adjustment brake pad function, No pad adjustment is required before the brake pads are worn out. It is required to stop riding and change new brake pads when the brake lever needs to be pulled with a large travel to stop the bike or there is noise between the brake pads and rotor.  
\*Warning: Keep the brake pads free from oil or grease; otherwise braking function may fail.

(1). Remove the brake pad pin.

(2). Remove used brake pads and use flat screw driver to push caliper pistons fully back. See Picture 1  
(3). Place new brake pads with brake pad spring in position, insert brake pad pin through the hose on caliper. Bend the open end of pin to keep the pin from moving out. See Picture 2  
(4). Spin the wheel and make sure it is clear between the rotor and brake pads. If it doesn't clear, redo the step VI in Assembly as above.

#### \*Caution:

1. Braking force on the first 10-30 pulls is not as powerful (New brake pads need to be bedded in). Do not ride at high speed when doing test riding, keep a safe distance.  
2. It is normal that there might be braking noise in the wet. The noise will disappear after the brake pads become dry.  
3. Before riding the bicycle, please check the thickness of the brake pads. When the wear of the brake pads exceeds 0.8 mm the replacement of the pad is recommended. When the total thickness of the worn brake pad is less than 2.7 mm, the pads must be replaced to ensure the safety riding

### SECTION 4 : BLEED THE SYSTEM

#### 1.When to bleed

(1)When the amount of oil in the reservoir tank is noticeably insufficient or the brake pads are worn out, and the brake handle feels loose.

(2)It is recommended to change the oil when it becomes noticeably discolored.  
(1)Jieke (NUTT) hydraulic disc brakes use mineral oil. It is recommended to use NUTT or SHIMANO mineral oil for bleeding. Use other mineral oil may reduce braking performance.

4.Pull the brake lever to make the brake pads clamp to the disc rotor.  
(Torque 30-35 kgf-cm).

5.Pump brake lever 5-8 times then pump and hold brake lever. And then alternatively gradually tighten the M6 screws. (Torque 905 kgf-cm)

6.Spin the wheel to make sure the disc rotor is clear to brake pads. If it is not clear then slack the bolts and redo step V above.

7. Make sure your work area is well ventilated. Inhaling the fumes from the mineral oil may be harmful to your health if you feel dizziness or nausea or any discomfort from inhalation of mineral oil fumes seek medical attention.

(1). Tools required:  
-Empty container( for used fluid)  
-Mineral oil (30cc)  
-T10 torque key  
-Cleaning naphtha and cleaning cloth  
-Bleed kit

(2).Connect the syringes to plastic tubes and connect the adaptors to the other end of plastic tubes.  
(3). Remove the bleed screw on caliper using a T10 torque wrench. See picture 3  
(4).Keep mineral oil away from children  
(5).Do not cut or puncture the mineral oil container avoid excessive heat or pressure which may cause the mineral oil to explode or catch fire

(6).Do not cut or puncture the mineral oil container avoid excessive heat or pressure which may cause the mineral oil to explode or catch fire  
(7).Please deal with it according to the laws of your country  
(8).Please keep it under normal room temperature and in dark place  
(9).Keep it out of direct sunlight

#### \*Caution

1.Under normal circumstances, Turnable S joint is in a locked state and cannot be rotated for adjustment. If you find that Turnable S joint can rotate, immediately lock the piston screw. Check whether the braking is normal. If it is found that the brakes cannot be applied properly, please stop cycling immediately and consult your dealer or agent.

2.For the HD brake installed with oil pipe Turnable S joint, it is recommended that the user tighten Turnable S joint screw with a tool once a month (locking torque 60-70kgf-cm) to avoid occurrence due to loose union screws. The phenomenon of oil leakage.

#### \*Caution

1.Hydraulic disc brake is not designed to work with the bicycle turned upside down. The brake may not work correctly and serious accident could occur if the bicycle turns upside down, be sure to operate the brake lever a few times to check the brake operation normally.

2.Keep the bicycle handlebar straight when the bicycle is turned upside down, because the bicycle may handle slightly differently depending on the use of the oil pipe to protect the environment.

3. Adjust the angle of Turnable S joint:  
(1) Use a T27 ring wrench to loosen Turnable S joint screw counter clockwise. Just loosen it slightly (less than 1/4 turn), please do not unscrew

(2).After adjusting Turnable S joint to the appropriate position, use the T27 ring wrench turn the wrench clockwise to tighten Turnable S joint screw (Locking torque 60-70kgf-cm)

#### Photograph4

Tighten Turnable S joint screw (locking torque 60-70kgf-cm)



Photograph4

4. Connect the syringe to the adaptors to the other end of plastic tubes.

5. Remove the bleed screw on caliper using a T10 torque wrench. See picture 3

6. Keep mineral oil away from children

7. Do not cut or puncture the mineral oil container avoid excessive heat or pressure which may cause the mineral oil to explode or catch fire

8. Please deal with it according to the laws of your country

9. Please keep it under normal room temperature and in dark place

10. Keep it out of direct sunlight

11. If fluid leaks occur, stop immediately and make appropriate repairs

12. Tighten the screws

13. Check whether the screws are loose and maintain the original tightening torque.

14. If the screw is found, please contact a qualified dealer.

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