



Installation and Setup Guide

Aspire

V2007.1

PREFACE

Thanks for purchasing our disk brakes . This manual contains the important information of our products with installments, adjustments, and rides. For assuring/controlling the conditions of the disk brakes, we strongly recommend using standard tools and correct methods to install as the following process in this manual. Therefore, you can get a safer riding without braking problems owing to improper installments. Before installation, please read the safety information.

Safety Info.

• Before Installation

When you install any components of the disk brake, that install work should be done by a qualified technician and the proper tools. Improper installation could cause severe injuries.

• Recommended Fluids and Lubricants

Use only DOT4 or DOT5.1 brake fluid. The " ATE TYP 200" brake fluid is designated to Hygia hydraulic disk brakes. Do not use any petroleum-based lubricant (ex. mineral oil), as this will cause the rubber components to swell. When you want to clean the pads and rotors, use only isopropyl alcohol.

• Before the first Ride

New brakes, new rotors and brake pads must be run in by breaking at least 30 times from a speed of 30 km/h to achieve the maximum brake power. As you want to do that, take your bike to a safe place.

Although practicing your pedaling and braking skills frequently benefits your riding, don't do it in dangerous ways, it will cause accidents.

There are many factors affect the efficiency of the braking. Bleeding, filling, pads, rotor, tire....etc... If you feel misgivings, you can ask the experienced professors or internet access our website <http://www.hygia.com.tw> and post your question. We will give you the first-rate solutions.

• Before every Ride

Check carefully the following points before every ride.

- 1.The quick release skewers are mounted correctly and closed between your wheels to front fork ends (bosses)and rear ends.

2.The brake lever pressure is “o.k.”. It is mean when you pulling the lever and ensuring that full braking force is acheved before the lever touches the handlebar.

3.Make sure your rotors and pads have no oil and lubricants.




- **After every Ride**

Do not touch the rotor and the caliper immediately after use, until you can ascertain that they are not too hot to injure you.





Warranty

Any Hygia Disc Brake is giving a 2-year leak proof warranty on master cylinder bodies, hoses, and calipers form the date of purchase.

Accessories

Component	Rotor	Fitting bolts for rotor Torx® key T25	Fitting bolts for caliper Allen key 5
Quantity	1	6	4
Photo			

· Applicable Adapter To Fork & Seat Stay

Adapter	Photo	Rotor diameter/ Int.Standard Fork			Rotor diameter/ Seat Stay		
		160	180	203	160	180	203
I-160		v					
I-180			v		v		
I-203				v		v	
I-204							v



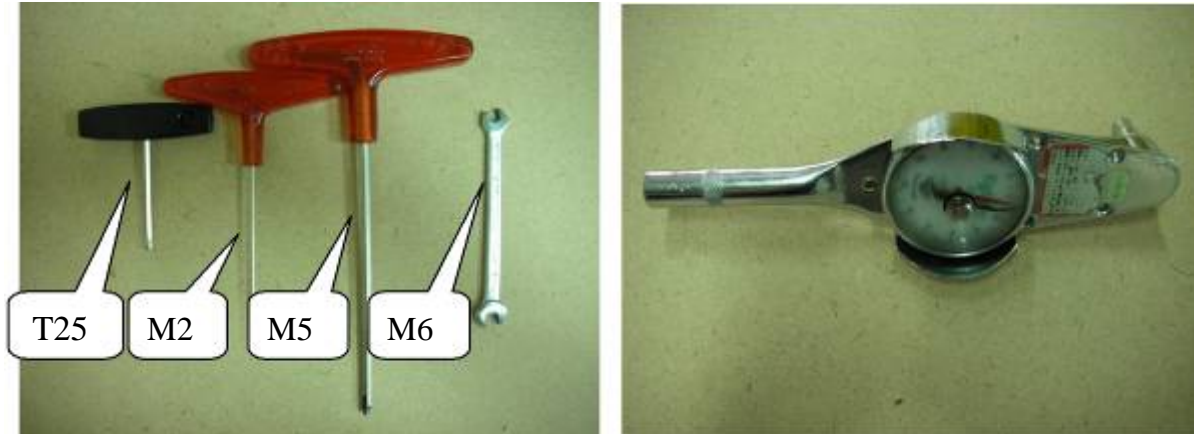
Int. Standard

Post Mount



Installation

• Tools & Accouterment Required



Wrenches & Torque wrench



Goggles & Gloves

(*If you have not the proper torque wrench, it could be replaced with a regular wrench temporarily.)

• Mounting the Rotor to the Hub

Using a Torx® T25 driver, tighten the fitting bolts on the hub with in a star pattern order. Torque the bolts to $5.65 \pm .55$ Nm (50 ± 5 in-lbs). Then, mount the wheel to the fork or frame.



- **Mounting the Caliper to the Fork or Frame**

1. Loose the bolts between the caliper and the adapter, but leave them loose enough so that caliper can move on its slots.



2. Mount the adapter to the fork or frame using fitting bolts(M6x1.0/18 mm) for Allen key 5 and keep “up” upward. Torque the bolts to 12.4Nm (110 in-lbs) For post mount forks, you need longer (M6x1.0/22 mm)bolts for installation. For that fork, torque the fitting bolts to 9.0 ± 0.55 Nm (80± 5 in-lbs)



- **Mounting the lever to the handle bar**

1. Loose the screws on the clamp.
2. Hitch the master cylinder body to the handlebar with a Torx® T25 driver. Torque the bolts to 4 Nm (34 in-lbs). The gaps between the clamp and the bottom of the master cylinder body should be alike to avoid injuries with the master cylinder body.



- **Adjust the Pads to Optimum**

1. Locked the caliper fitting bolts then loosen them counterclockwise with 1~1.5 loops.
2. Squeeze the lever several times to push the pads to optimum position. When the lever feel very stable, clench the lever and tighten the bolts. Torque the bolts to 6Nm (51 in-lbs).



As you try to rotate the wheel to test the brake, do not worry the slight friction between the rotor and the pads. A slight drag noise is natural during the pads run in period. The drag will disappear gradually after using.

- **Adjust the Interval between Lever and Grip**

You can adjust the interval to fit to your palm by screw the bolt at the lever. But there is a very important notice you have to know----Keep the end of the piston and the plant of the master cylinder on the same datum.

Protruding or denting overmuch will cause the cylinder leak or loss the brake effect.

When it is protruding or denting, you can screw the push rod with a 2mm Allen key to keep them on the same datum.



Maintenance

• Brake Pad Change

1. Loosen the fitting bolts of the caliper with a 5mm Allen key and remove the caliper from the adapter and the rotor.
2. Remove the brake pads with following steps:
 - A. Loosen the bolt at the left side and push the rod out with a 2mm Allen key.
 - C. Remove the brake pads.
 - D. Clean the pistons and surrounding area.
 - E. Using the box-end of a 6 mm wrench, push the caliper pistons back until the bottom, while be careful not to bend the pistons.
3. Install the new pads, and then install the caliper on the adapter and the rotor. Squeeze the lever several times, and then follow the steps that “adjust the pads to optimum”.

When you finish the installment, do not forget to run in the brakes at safe place.



Always check the brake fluid in the reservoir tank, when you feel the brake is not enough brake power or no pressure point after confirming that hydraulic system of the brake is no leak. If you have confirmed, please go by the following steps to check the brake fluid.

• Adding the Brake Fluid

1. Loosen the screws on the clamp by a Torx® T25 driver and turn the master cylinder body to keep the reservoir tank is horizontal and skyward. Then tight the screws if only the body is stable.

2. Open the cover by a 2 mm Allen key and check whether the fluid is poor or addled.

If it is not addled, add the fluid to the tank. Close the cover, and then press the cover with your thumb and Squeeze the lever several times. If you feel the brake is enough brake power, tight the cover with the screws.

Torque the screws to 0.7-1 Nm (6-9 in-lb). **Caution: Do not forget the seal under the cover and install it carefully.**

If adding the fluid still could not improve the brake power. You need to bleed the fluid.

3. Losse the screws and adjust the master cylinder body to the proper position, then tight them.



When you open the reservoir tank cover and find the fluid have been addled or adding the fluid could not improve the brake power. You have to bleed the new fluid for banishing the addled fluid and air form the hydraulic system.

• **Bleeding Brake Fluid.**

For bleeding a HYGIA Aspire/Gemini series disk brake, you will need the disk brake service kit to make you more efficiently and cleanly.

Service Kit	Syringe with Plastic Hose
Photo	

1. Open the reservoir tank cover like adding brake fluid processes.
2. Take a plate to load the oil drip from the master cylinder body.
3. Take another short and bigger hose to link with the bleeding hose.
4. Loosen the caliper bleed screw for one loop with a box/open end 6mm wrench.
5. Fill the syringe 3/4 full with fresh DOT 4 or 5.1 brake fluid, and get all the air out of the fluid in the syringe.



6. Connect the syringe and the caliper bleed screw. Gently push the syringe plunger with your thumb and squeeze the lever.
7. Repeat step 5-6 until no more air bubbles come out of the bleeding reservoir cover.
8. Keep the hose of the syringe connected with the caliper bleed screw, and tightens the screw. Torque should be only to seal the opening of the caliper.



Caution: Do not troque over! It will damage the opening of the caliper.

9. Remove the hose with the syringe、 the bottle and the reservoir cover. Then check the fluid in the reservoir tank if it is enough or not.
10. Install the original reservoir cover and squeeze the lever several times. Check the brake power again. Then, adjust the master cylinder body to optimum angle.

