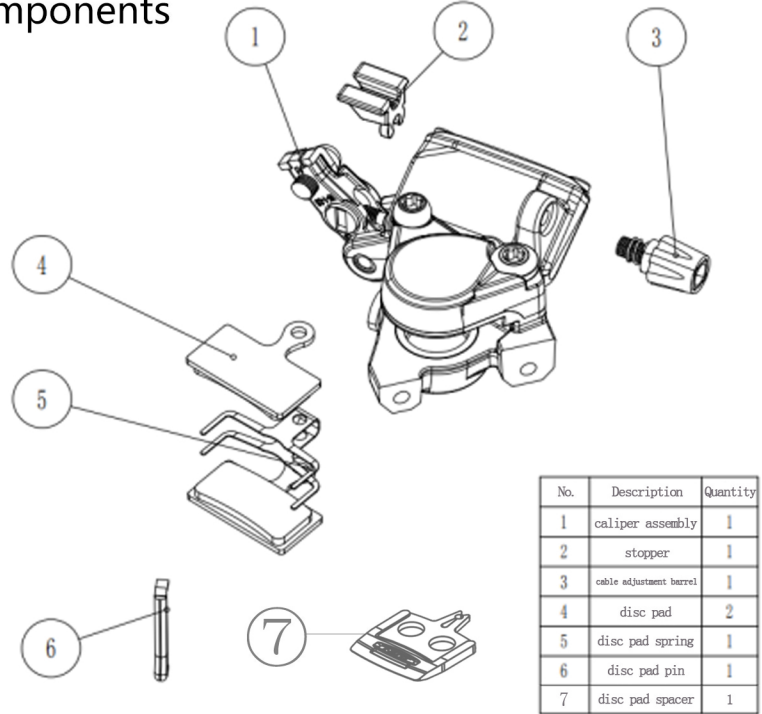


Installation instruction of W-1 linear pull hydraulic disc brake

\*Components



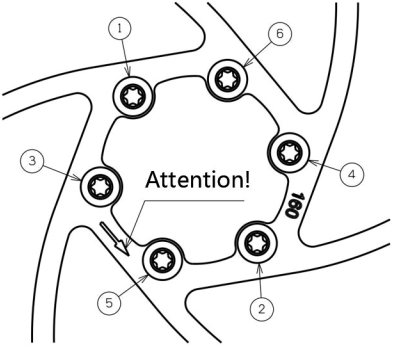
No.	Description	Quantity
1	caliper assembly	1
2	stopper	1
3	cable adjustment barrel	1
4	disc pad	2
5	disc pad spring	1
6	disc pad pin	1
7	disc pad spacer	1

Warning:  
Please be sure to follow the listed instructions to ensure safe operation of the hydraulic disc brake:  
1. Our disc brake is a complete sealed system, passing the high pressure test. Loosen any of the screws of the system is prohibited in case of oil leak and braking failure.  
②Do not use force to pry the pistons. Doing so may damage the pistons and thereby spill brake fluid over the reservoir. Disc brake rotor must be replaced with a new one if it is worn, cracked or deformed.  
2. Do not use the brakes with fluid leaking. If a brake fluid leak occurred, please stop riding and consult a dealer or an agency for service.  
3. Under normal riding condition, there will be slight wear on the rotor. As the number of braking times increases, the wear marks will become deeper. Please check the rotor in routine. The disc rotor should be replaced when it has been deformed or wear marks are too deep (thickness < 1.5 mm).  
4. Disc rotor will become hot when brakes are operated with force or for a long-period. Do not touch to avoid burning injury. In case of a braking adjustment is necessary, make sure all the braking components are cool enough.  
5. Please make sure to check whether the brake system can perform braking operations well before riding a bicycle.  
6. Brake rotor and pads must be kept clean and free from grease contamination, otherwise a brake failure may occur.  
7. A contaminated rotor should be cleaned by isopropyl alcohol while contaminated pads should be replaced.

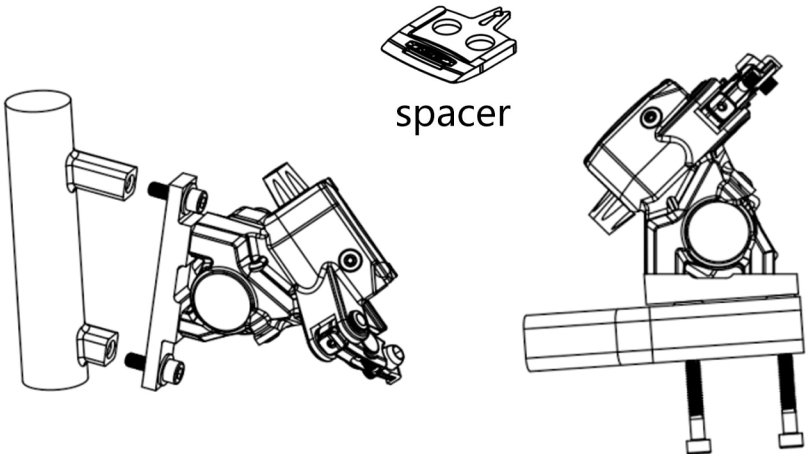
Cautions:  
1.As the disc brake pads are self-adjusting. Do not pull the brake lever before it is fully assembled. The more pulls on brake lever without the rotor in the caliper slot would lead to a more narrow space between disc pads. Thereby, the clearance would be too small to install disc pads. If the clearance is too small, please insert the plastic spacer between disc pads to increase gap and push them back to the original positions. (Be careful not to damage the material when pushing the disc pads by using spacer.)  
2.Do not touch the disc rotor by hand because the grease on hand would reduce the braking performance.  
3.It is highly recommended to use Jieke or SHIMANO mineral oil. Using other types of fluids may prevent the brakes from operating.  
4.Make sure to use only oil from a freshly-opened container, and do not re-use oil which has been drained from the bleed nipple. Old or reused oil may contain water, and thereby imposes a negative impacts on the braking performance.  
5.As the required braking distance will be longer during wet weather, please reduce your speed and apply the brakes early if necessary.  
6.Clean the rotor by using a dry cloth with isopropyl alcohol, soup water or a neutral detergent.

Cautions:  
--Handling mineral oil  
1. Contact with eyes may result in irritation. Please wear safety goggles to protect your eye.  
2. Contact with skins may result in irritation. Please wear gloves when handling.  
3. Inhalation of mineral oil mist or vapors may cause a discomfort. Please handle in a well-ventilated area.  
4. Do not drink mineral oil. It may cause vomiting or diarrhea.  
5. Keep out of reach of children.  
6. Do not cut, heat, weld or pressurize the oil container, as this may cause explosion or fire.  
  
--Emergency handling  
1. In the case of eye contact, flush with fresh water and seek medical assistance immediately.  
2. In the case of skin contact, wash well with soapy water.  
3. If mineral oil mist or vapor is inhaled, go to an area with fresh air, and stay warm with a blanket. Rest and seek medical assistance.

Disc rotor installation instruction (see the following figure):  
1.Attention! Make sure that the rotation arrow label on the rotor pointing in the same direction as the forward rotation of the wheel.  
2.Use T25 torque key and 6 rotor screws to tighten the disc rotor onto the disc hub.  
3.To ensure parallel alignment of rotor, all rotor screws should be tightened in a diagonal sequence (torque 50-60 kgf-cm).  
4.For safety, the rotor screws should be replaced after disassembly for 3-4 times as the Nylok will not function correctly.

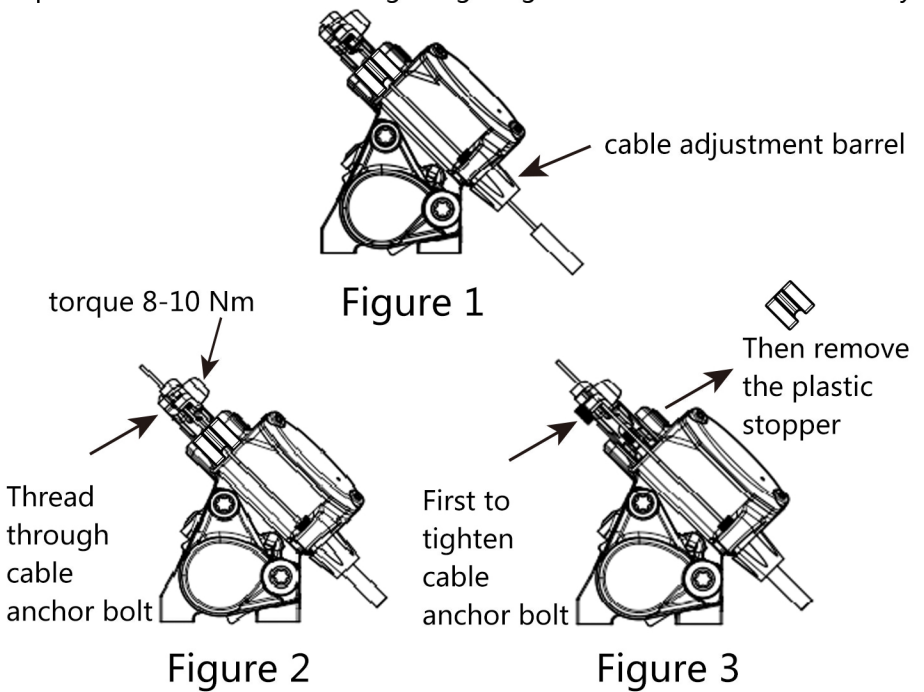


Caliper installation instructions (see the following figures):  
The mount adapter is designed for international-standard, please select the specific adapter for front caliper (F) or rear caliper (R) according to the rotor size, and use appropriate tools for installation.  
1.Remove the spacer and select a suitable caliper mount adapter according to the rotor size. Install the caliper on the adapter with the two included M5×16 hexagon bolts. They have been fixed before shipment.  
2.Install the caliper onto the front fork or rear dropout by using two M5×L bolts (L is short for "Long", will vary depending on models and front or rear) and washers (leave enough slack so that the caliper can still move).



Installation of caliper onto front fork      Installation of caliper onto rear dropout

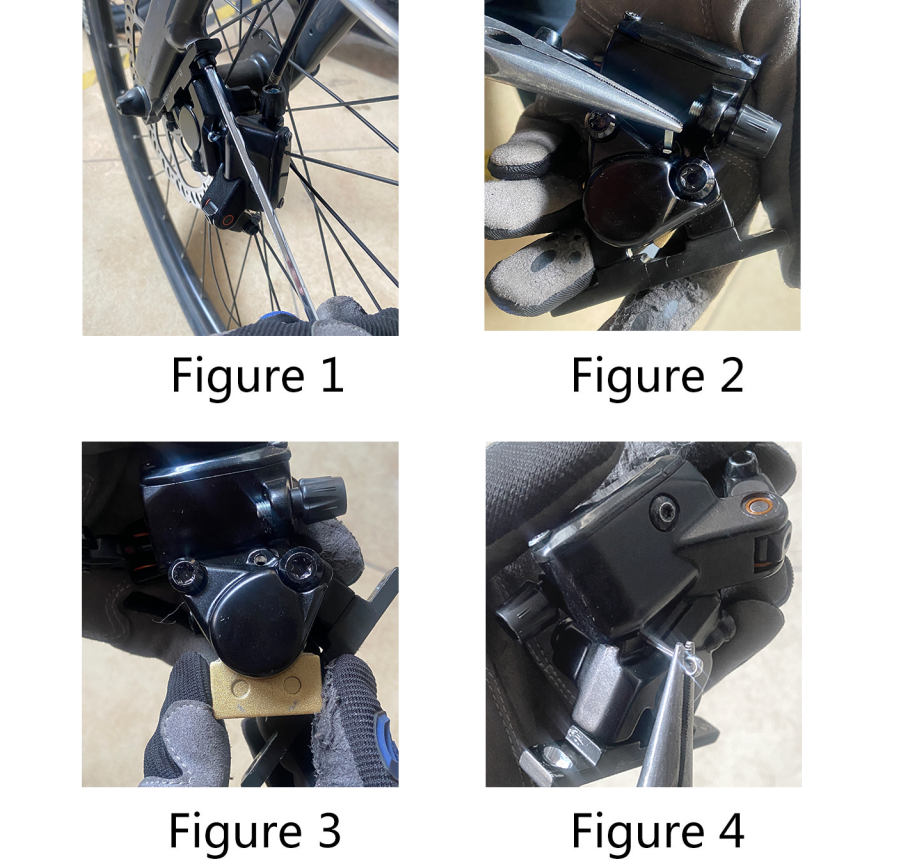
Brake inner cable installation instructions:  
1.Thread the brake inner cable through the adjustment barrel on the caliper (see Figure 1)  
2.Continue to thread the inner cable through the cable anchor bolt on the caliper (see Figure 2)  
3.The plastic stopper can only be removed after pulling the inner cable and tightening tighten cable anchor bolt before taking plastic spacer away  
The plastic stopper is used to prevent pulling and moving the tie rod forward when the brake cable is overtightening. If that happened, the internal fluid compensating port would be blocked, and thereby the brake system would lose its automatic compensation function when the brake pad wear (torque 8-10 Nm)  
Warning: Make sure no more than 20 mm excess cable beyond anchor bolt to prevent the inner cable from getting caught into the disc rotor accidentally.



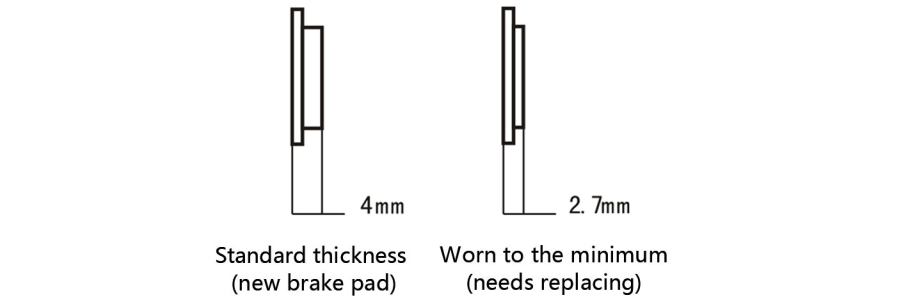
Brake pad adjustment:  
1.Pay attention to the cable adjustment barrels on both brake calipers and brake levers, as they are only used to adjust cable to right position. Do not overtighten the cable to move the tie rod!  
2.Pull brake lever 5-8 times and hold the brake lever (the caliper will self-align on the rotor), then tighten each M5×L bolt, alternating between the two to ensure alignment (torque 60±5kgf-cm).  
3.Release the lever and check that the pads are aligned equally and the wheel spins freely. If there exists interference between rotor and pads, loosen the M5×L bolts and repeat the previous procedure.

Brake pad replacement:  
This brake caliper is designed to automatically adjust the clearance between the disc brake rotor and pads when the pads wear. As a result, no need to worry about the brake pad adjustment. However, if the lever operation becomes gradually loose or braking noise occurs from rotor, please stop riding and replace the pads.

Warning:  
Brake pads must be kept clean and free from grease contamination, otherwise there is a risk that brake will fail. When the pads become contaminated with oil or grease, they must be replaced.  
1.Remove the fixing bolts with 5mm hex wrench, loosen the cable anchor bolt and remove the cable. -See Figure 1  
2.Use needle-nose pliers and other tools to straighten the tail hooks of the cotter pins. Pull out the cotton pin. -See Figure 2  
3.Remove the old pads, install the new pads and push pistons back into position. -See Figure 3  
Re-attach the cotton pin and restore the hook at the end back to 90 degree. -See Figure 4  
4.Follow the caliper installation instruction, reinstall the calipers back to the frame.



Notices about brake pads (see details in the following figures):  
1.New disc brake pads have a 10-30 cycle break-in period to achieve optimal pad seating and performance. Make sure that you are aware that the braking force will gradually increase as the break-in period progresses. During the break-in period, be careful not to ride at high speed and keep a safe braking distance.  
2.It is normal that there may be braking noise during wet weather. The noise will disappear after the disc pads become dry.  
3.Before each riding, please make sure to check the thickness of the brake pads. When the wear of the brake pads exceeds 0.8 mm, pad replacement is recommended. When the total thickness of the worn brake pad is less than 2.7 mm, the pads must be replaced to ensure safety.



Disc brake rotor interferes with the brake pads	
Possible causes	Trouble-shooting
Brake pads or disc brake rotor are not aligned in right position	Re-adjusting the position of the brake pads or disc brake caliper
Disc brake rotor is cracked or deformed	Replacing rotor
Insufficient braking force or brake failure	
Possible causes	Trouble-shooting
Brake pads become contaminated with oil or grease	Use clean cloth with isopropyl alcohol to clean the contaminated rotor and replace the brake pads
Disc brake rotor becomes contaminated with oil or grease	Use clean cloth with isopropyl alcohol to clean the contaminated rotor and replace the brake pads

Product warranty  
1.During the warranty period, if damage occurs under normal use according to the instruction and operation manual, our company will provide professional after-sale service, but there are exceptions; the warranty last 18 months from the sale of the disc brake (specifically starting from the manufacturing date mark on the caliper), but the brake pads are not warranted. If damage is caused by the following listed reasons, it will not be covered by the warranty during the warranty period. However, the company is still happy to serve you by charging parts and service fees.  
2. The followings are not covered by the warranty:  
-Fail to perform proper maintenance according to the manual  
-Arbitrary disassembly and assembly or not using original parts  
-Damage caused by collision due to external force  
-Abnormal or improper use  
-Damage occurs due to force majeure  
-Selfy-modified or repaired by dealers unauthorized by the company

System maintenance  
To achieve an optimal operation of the Jieke disc brake system for a long period, make sure to conduct the following checks.  
1. Pre-riding  
Before each ride, make sure to check whether the disc brake system can perform normal braking operations.  
①.Brake pad installation and replacement:  
Please check the thickness of the brake pads and make sure they reach the lower limit. Remove the brake pads and measure their thickness. If the thickness of pads is less than 2.7 mm, the pads must be replaced.  
2. post-riding  
①.Rotor cleaning: If there is any dirt or debris between the disc brake caliper and the brake rotor, please clean them off after riding. Do not allow any oil or grease to get onto the disc brake rotor and brake pads.  
②.Tighten screws: Check whether the screws are tight and maintain the original tightening torque.

If the products wear out naturally under normal use, they are not covered by the warranty. Due to product improvement, some specifications are subject to change without notice.

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