



General Safety Information

⚠ WARNING – To avoid serious injuries:

- **Brake operation** Improper use of your bicycle's brake system may result in a loss of control or an accident, which could lead to a severe injury. Because each bicycle may handle differently, be sure to learn the proper braking technique (including brake lever pressure and bicycle control characteristics) for your bicycle. Consult your bicycle dealer and the bicycle's owners manual, and practice your riding and braking technique.
- **Front brakes** Brakes designed for use as rear brakes should not be used as front brakes.
- **Shimano parts** Obtain and read the service instructions carefully prior to installing the parts. Loose, worn, or damaged parts may cause serious injury to the rider. We strongly recommend only using genuine Shimano replacement parts.

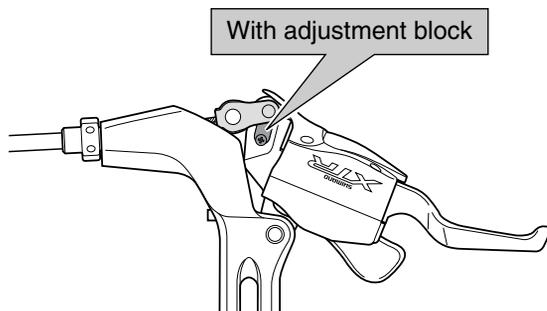
Shimano BR-M960 Safety Information

⚠ WARNING – To avoid serious injuries:

- The M960 brake system is equipped with an adjustment block in the wire hooking unit of the ST-M960 brake lever which allows the rider to change the relationship between the brake input and output. If the adjustment block is removed, the braking force will be dramatically increased, so that a high level of braking performance can be achieved from only a small amount of lever movement. Accordingly, normal braking operation may cause a greater-than-expected amount of braking force to be applied, which could make the bicycle fall forward, causing serious injury to the rider. To avoid this, please read the following instructions thoroughly before removing the adjustment block.

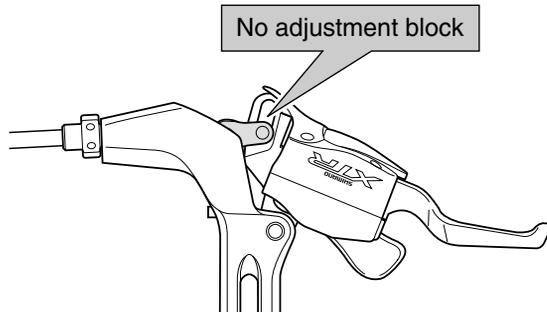
After removing the adjustment block, make sure that you are completely used to the new braking characteristics before riding the bicycle, otherwise the bicycle might fall forward if you have to apply the brakes suddenly, such as when a vehicle appears.

- 1) Without adjustment block removed (standard specifications for shipment)



2) With adjustment block removed

An ample degree of braking force can be obtained from a small amount of brake lever input, to provide a high level of brake performance. However, if the brakes are operated suddenly, there is the danger that the bicycle may fall forward. After removing the adjustment block, first ride the bicycle at a speed of less than 6 mph (10 km/h) while applying the brakes repeatedly in order to get a feel for the difference in braking characteristics before riding at higher speeds. Beginners should be particularly careful.



- Use the **BR-M960 V-Brake with SERVO WAVE ACTION** and adjustable V-Brake-compatible levers such as the **ST-M960/ST-M952/BL-M950 brake levers**.

NOTE:

- By using these parts as a set, the optimum efficiency of the Multi-Condition Brake System can be realized.
- Parts such as the brake shoes are not guaranteed against wear of deterioration in the quality of their materials.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.
- For any questions regarding methods of handling or maintenance, please contact the place of purchase.

SI-8CL0A

Multi-Condition Brake System

Before use, read these instructions carefully, and follow them for correct use.

Technical Service Instructions

Multi-Condition Brake System

By providing superior wet weather braking performance (control and modulation), braking performance will not vary in a multitude of conditions when using this brake system.

In order to realize the best performance, we recommend that the following combination be used.

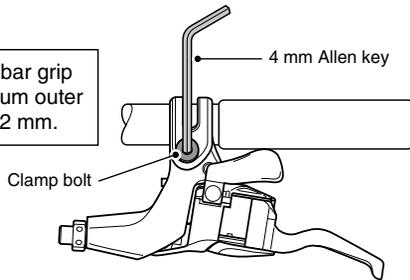
Series	XTR
Brake lever	ST-M960
V-Brake	BR-M960
Brake cable	

Installation of the brake lever

Use a 4 mm Allen key to install the brake lever. Insert the 4 mm Allen key so that it goes as far into the head of the bolt as possible at this time.

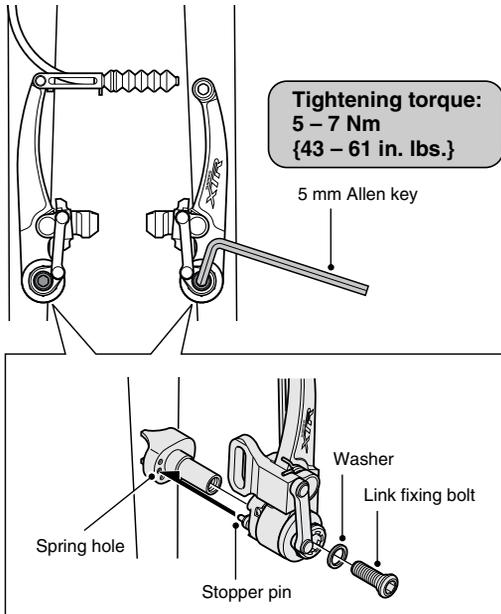
Tightening torque:
6 – 8 Nm {52 – 69 in. lbs.}

Use a handlebar grip with a maximum outer diameter of 32 mm.

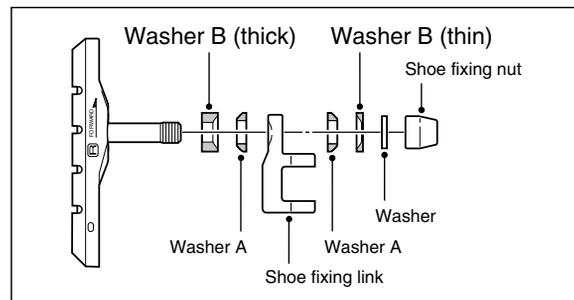
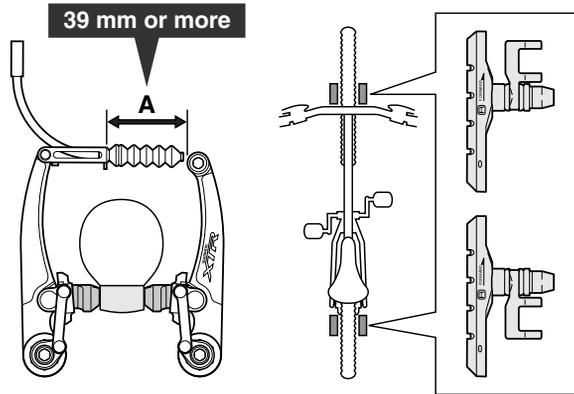


Installation of the V-Brake

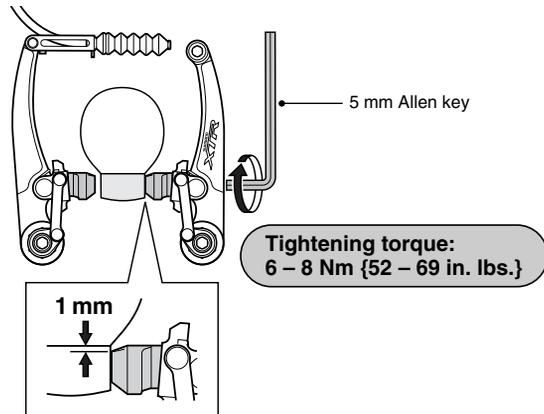
1. Insert the stopper pin of the brake body into the center spring hole in the frame mounting boss, and then secure the brake body to the frame with the link fixing bolt.



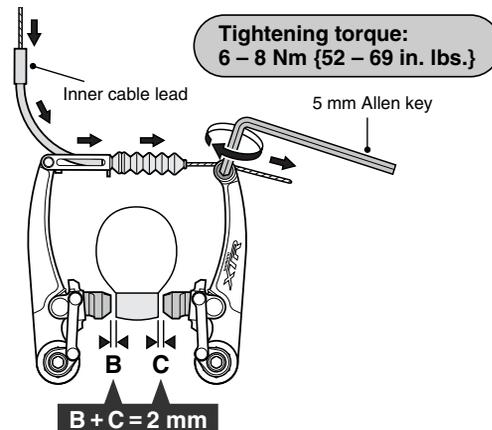
2. While holding the shoe against the rim, adjust the amount of shoe protrusion by changing over the washer B (thick or thin) so that dimension A is kept at 39 mm or more.



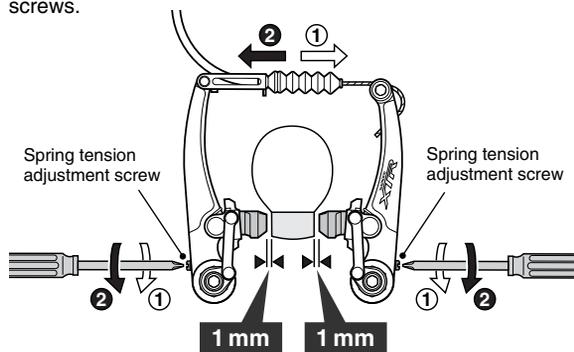
3. While holding the shoe against the rim, tighten the shoe fixing nut.



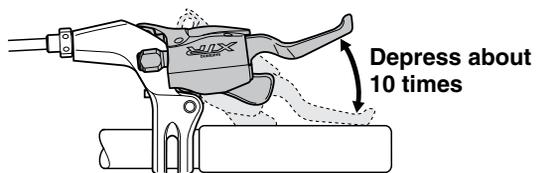
4. Pass the inner cable through the inner cable lead, and after setting so that the total of the clearances between the left and right shoes and the rim is 2 mm, tighten the cable fixing bolt.



- Adjust the balance with the spring tension adjustment screws.

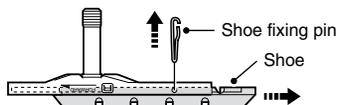


- Depress the brake lever about 10 times as far as the grip and check that everything is operating correctly and that the shoe clearance is correct before using the brakes.



Replacement of the cartridge shoe

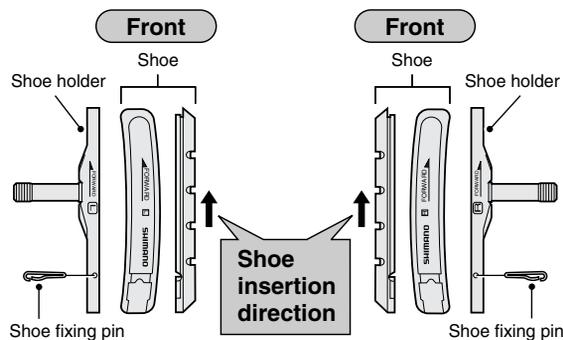
- Remove the shoe fixing pin, and then slide the shoe along the groove to remove it from the shoe holder.



- There are two different types of shoe and shoe holder to be used in the left and right positions respectively. Slide the new shoes into the grooves on the shoe holders while taking note of the correct directions and pin hole positions.

For the left
Same at front and rear

For the right
Same at front and rear



- Insertion of shoe fixing pin is very critical to keep shoe properly fixed in place.

Please note: Specifications are subject to change for improvement without notice. (English)

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