

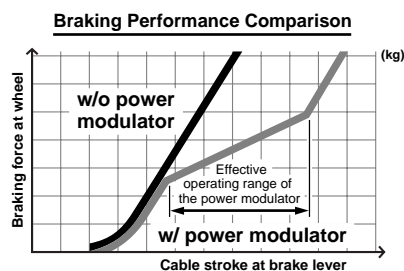
General Safety Information

⚠ 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.

⚠ CAUTION – To avoid serious injuries:

Power modulator The power modulator is a device that makes it easier to control braking by increasing the cable stroke at the brake lever within a certain constant range of braking force. If the effective operating range of the power modulator will be exceeded, the lever stroke and the brake will operate as a normal V-brake (sensitive and powerful). In that case, the brakes may operate more powerfully than intended and may cause the wheel to lock up. Therefore it is essential that you fully understand and test the performance of the power modulator before use. **The power modulator is not equipped with a function to prevent the wheel from locking up.**



Shimano BR-M430/BR-M420 Safety Information

⚠ WARNING – To avoid serious injuries:

- Use the SB-C055 (2-finger brake levers)/ST-C051/BL-M420 V-brake compatible levers with BR-M430/BR-M420 V-brakes. If using the SB-C055 (4-finger brake levers)/ST-C050/BL-C101-L brake levers, use the SM-PM40 power modulator with the V-brakes. If the power modulator is not used, it may cause excessive braking force to be applied when the brake lever is operated, or result in an uneven cable stroke which can cause braking force to be insufficient, which in turn could result in dangerous accidents.
 - The SB-C055 (4-finger brake levers)/ST-C050/BL-C101-L brake levers are equipped with a mode switching mechanism to make them compatible with V-brakes with power modulator and cantilever brakes and roller brakes.
- If the incorrect mode is selected it may cause either excessive or insufficient braking force to occur, which could result in dangerous accidents. Be sure to select the mode in accordance with the instructions given in the table below.**

| Mode position | Applicable brake |
|---|--|
| <p>V position</p> <p>The V indicates the mode position for compatibility with V-brakes with power modulator.</p> | <ul style="list-style-type: none"> V-brakes (BR-M430/BR-M420) with SM-PM40 power modulator attached |
| <p>C/R position</p> <p>The C indicates the mode position for compatibility with cantilever brakes. The R indicates the mode position for compatibility with roller brakes.</p> | <ul style="list-style-type: none"> Cantilever brakes Roller brakes |

NOTE:

- Parts such as the brake shoes are not guaranteed against wear or 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-B700D

Brake System

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

Technical Service Instructions

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

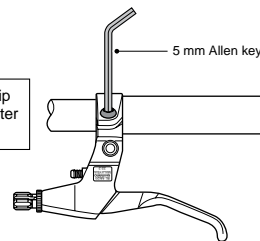
| | | |
|-------------|--|--|
| Brake lever | SB-C055 (2-finger) / ST-C051 / BL-M420 | SB-C055 (4-finger) / ST-C050 / BL-C101-L |
| V-brake | BR-M430 / BR-M420 | BR-M430 / BR-M420 with SM-PM40 |
| Brake cable | SHIMANO SYSTEM | |

Installation of the brake lever

Use a 5 mm Allen key to install the brake lever.

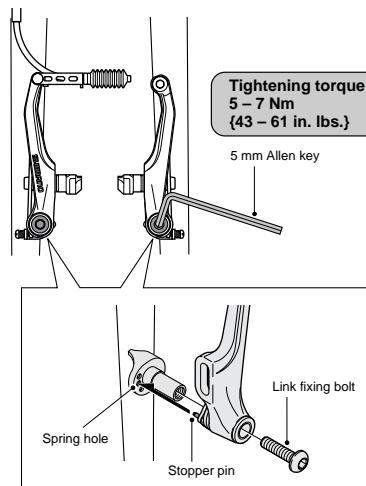
Tightening torque:
6 – 8 Nm {52 – 69 in. lbs.}

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

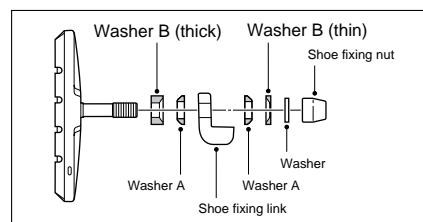
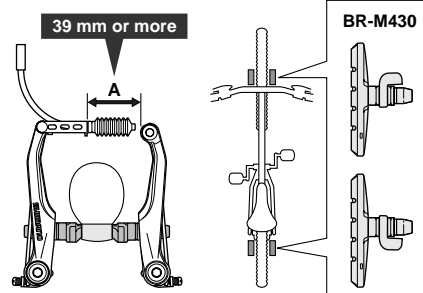


Installation of the V-brake

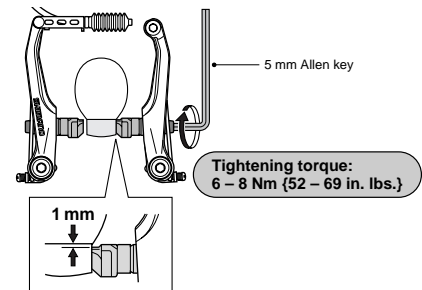
- Insert the stopper pin of the brake body into the center spring hole in the frame mounting boss, and then secure the brake body to the frame with the link fixing bolt.



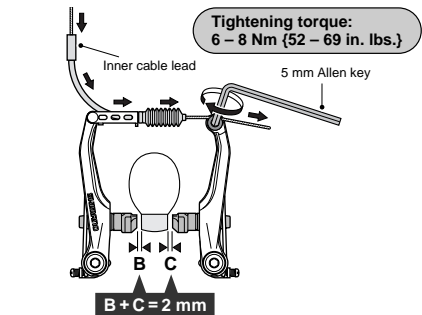
- While holding the shoe against the rim, adjust the amount of shoe protrusion by changing over the washer B (thick or thin) so that dimension A is kept at 39 mm or more. (This also applies if the SM-PM40 power modulator is being used.)



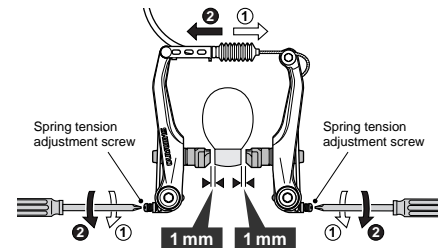
- While holding the shoe against the rim, tighten the shoe fixing nut.



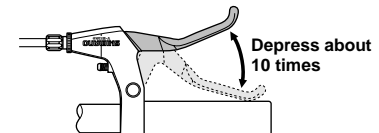
- Pass the inner cable through the inner cable lead, and after setting so that the total of the clearances between the left and right shoes and the rim is 2 mm, tighten the cable fixing bolt.



- Adjust the balance with the spring tension adjustment screws.

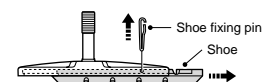


- Depress the brake lever about 10 times as far as the grip and check that everything is operating correctly and that the shoe clearance is correct before using the brakes.

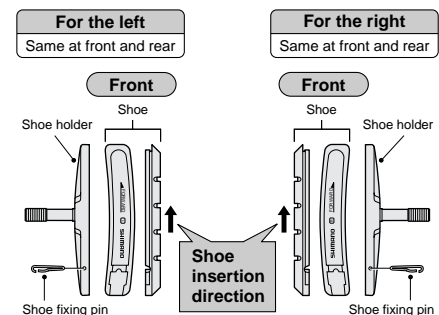


Replacement of the cartridge shoe (BR-M430)

- 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.



- 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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