**SERVICE INSTRUCTIONS**

**WARNING**
- It is important to completely understand the operation of your bicycle's brake system. Improper use of your bicycle's brake system may result in a loss of control or an accident, which could lead to severe injury. Because each bicycle may handle differently, be sure to learn the proper braking techniques (including brake lever pressure and bicycle control characteristics) and operation of your bicycle. This can be done by consulting your professional bicycle dealer and the bicycle’s owner's manual, and by practicing your riding and braking techniques.

**CAUTION**
1. A forceful main brake system cannot be used with mountain bikes. Furthermore, when using this brake system with other kinds of brakes, avoid continuous application of the front brakes when riding down long slopes, as this will cause the internal brake parts to become very hot, and this may weaken braking performance. It may also cause a reduction in the amount of brake grease inside the brake, and this can lead to problems such as abnormal or sudden braking.

The design of the Shimano Inter-M brake system has been carried out based on standards such as ISO 4210 and DIN 79102-2. These standards specify the performance for an overall weight of 100 kg. If the overall weight exceeds 100 kg, the brake force provided by the system may be insufficient for correct braking, and durability of the system may also be reduced.

2. The front Inter-M brake system should only be installed to the left side of a bicycle which is 26" or larger. If it is used on a bicycle which is smaller than 26", the braking force may be too great, which could cause accidents.

3. In order to get the best performance from the Shimano front Inter-M brake, be sure to use Shimano brake cables and brake levers as a set. (Refer to the product line-up.) 

4. The R indicates the mode position for Zone 1 and Zone 2. The C indicates the mode position for Zone 3 and Zone 4. The C.R mode position is not used in the Shimano Inter-M brake system.

5. The HB indicates for which types the brake is intended for use.

6. The SI indicates the size of the front brake unit. (SI-22V0G refers to the brake unit and HB-NX50-NT/BR-IM41-F refers to the brake cable set.)

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

8. Use a wheel with 3x or 4x spoke lacing. Wheels with radial lacing cannot be used because the spokes and the wheel can be damaged when applying the brakes and brake noise can be generated.

9. The front Inter-M brake is different from conventional brake systems. The brake arm is filled with grease, which may cause the turning of the wheel to be slightly heavier than usual, particularly in cold weather.

10. The front Inter-M brake has a built-in power modulator which controls the braking force applied to the hub. This is operated by the generation of the power modulator when the brake is applied, but this is not a sign of a malfunction.

11. If you apply the front Inter-M brake strongly while the bicycle is stopped and then shake the wheel, you will notice that there is a small amount of play in the brake. This is normal, and will not cause any problems.

12. To check the amount of looseness in the head parts, grasp the middle of the handlebar and one of the front forks as shown in the illustration, and then move the head parts back and forth in the directions indicated by the arrows.

13. Move the brake arms so that they give a small amount of play if you apply the brakes fully and shake the wheel as described above, this will make it more difficult to check the looseness in the head parts.

14. For maximum performance we highly recommend Shimano lubricants and maintenance products.

**SERVICE INSTRUCTIONS**

**Front Inter-M Brake System**

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

**Before use**

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

2. Obtain and read the service instructions carefully before use.

3. Tighten the brake arm fixing nut.

4. Adjust the brake cable fixing bolt unit.

5. Install the inner cable fixing bolt unit.

6. Before using the brake system, be sure to carry out the following steps:

- Ensure that the wheel is securely attached.
- Check the brake lever position.
- Check the brake cable tension.
- Check the brake pad clearance.
- Check the brake regenerative force.

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

8. If the brake cable becomes rusted, braking performance will suffer. If this happens, replace the brake cable with a genuine Shimano brake cable and re-check the braking performance.

9. The BR-IM41-F front brake unit and HB-NX50-NT/BR-IM41-F front hub unit should never be disassembled. If they are disassembled, malfunctions and damage to the front brake unit and front hub unit could result.

10. Consult the place of purchase for details on assembly and disassembly.

11. Use the BR-IM41-F front brake unit in conjunction with a nut-type brake.”