For replacement information, contact the place of purchase or a bicycle dealer.

For safety, be sure to read this user’s manual thoroughly before use, and follow it for correct use.

**Important Safety Information**

- This hydraulic brake system has different braking characteristics from those of the rim brake type. Familiarize yourself sufficiently with the braking characteristics before use. If you ride the bicycle without becoming sufficiently familiar with the braking characteristics, braking may cause you to fall off the bicycle, potentially causing serious injury or a fatal accident.
- The braking force for a hydraulic brake system will increase along with the size of the disc brake rotor (140 mm/160 mm/180 mm/203 mm).
- Do not use a 203 mm disc brake rotor. This will excessively increase the braking force, which could cause you to lose control of the bicycle, fall, and be seriously injured.
- Only use a 160 mm disc brake rotor if you are unable to obtain sufficient braking force, such as when riding an electric assist bicycle or the rider is heavy. If you feel that the braking force is too high during the trial ride, stop using it and consult a place of purchase or a distributor. Otherwise, you may lose control of the bicycle, fall, and be seriously injured.
- If you feel that the braking force is too low, stop using it and consult a place of purchase or a distributor for the appropriate size of the disc brake rotor. Otherwise, you may lose control of the bicycle, fall, and be seriously injured.
- Please use extra caution to keep your fingers away from the rotating disc brake rotor. The disc brake rotor is sharp enough to inflict severe injury to your fingers if caught within the openings of moving rotor.
- The calipers and disc brake rotor will become hot when the brakes are operated, so do not touch them while riding or immediately after dismounting from the bicycle, otherwise you might get burned.
- Be careful not to allow any oil or grease to get onto the disc brake rotor and brake pads, otherwise the brakes may not work correctly.
- If any oil or grease gets on the pads, you should consult a dealer or an agency. There is the danger that the brakes may not work correctly.
- If noise occurs during brake operation, the pads may have been worn down to the usable limit. Check that the brake system temperature has been cooled down sufficiently, and then check that the thickness of each pad is 0.5 mm or more. Or, consult a dealer or an agency.
- If the disc brake rotor is cracked or deformed, immediately stop using the brakes and consult a dealer or an agency.
- If the disc brake rotor becomes worn down to a thickness of 1.5 mm, immediately stop using the brakes and consult the place of purchase or a distributor. The disc brake rotor may break, and you may fall off the bicycle. If using an ICE TECHNOLOGY disc brake rotor, immediately stop use if the aluminum surface appears on one side.
- Vapor lock may occur if the brakes are applied continuously. To relieve this condition, momentarily release the lever.
- The disc brake is not designed to work with the bicycle upside down. If the bicycle is turned upside down or on its side, the brake may not work correctly, and a serious accident could occur. Before riding the bicycle, be sure to operate the brake lever a few times to check that the brakes operate normally. If the brakes do not operate normally, stop using the brakes and consult a dealer or an agency.
- If you feel no resistance when depressing the brake lever, immediately stop using the brakes and consult a dealer or an agency.
- If fluid leaks occur, immediately stop using the brakes and consult a dealer or an agency.
- 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 a fall, which could lead to severe injury. Because each bicycle may handle differently, be sure to learn the proper braking technique (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 technique.
- If the front brake is applied too strongly, the wheel may lock and the bicycle may fall forward, and serious injury may result.
- Always make sure that the front and rear brakes are working correctly before you ride the bicycle.
- The required braking distance will be longer during wet weather. Reduce your speed and apply the brakes early and gently.
- If the road surface is wet, the tires will skid more easily. If the tires skid, you may fall off the bicycle. To avoid this, reduce your speed and apply the brakes early and gently.
- If noise occurs during brake operation, the pads may have been worn down to the usable limit. Check that the brake system temperature has been cooled down sufficiently, and then check that the thickness of each pad is 0.5 mm or more. Or, consult a dealer or an agency.
- If the brake oil is leaking, immediately stop using it and consult a place of purchase or a bicycle dealer. Otherwise, the lever may break, and braking may become disabled.
- After reading the user’s manual carefully, keep it in a safe place for later reference.

**CAUTION**

- **Cautions on the mineral oil**
  - Contact with eyes may result in irritation. In the event of eye contact, flush with fresh water and seek medical assistance immediately.
  - Contact with skin may cause a rash and discomfort. In the event of skin contact, wash with soap and water.
  - Inhalation of mineral oil mist or vapors may cause nausea. Cover nose and mouth with a respirator type mask and use in a well ventilated area. If mineral oil mist or vapor is inhaled, go immediately to an area with fresh air. Cover up with a blanket. Stay warm and stable and seek professional medical advice.

- **Burn-in period**
  - Disc brakes have a burn-in period, and the braking force will gradually increase as the burn-in period progresses. Make sure that you are aware of any such increases in braking force when using the brakes during the burn-in period. The same thing will happen when the brake pads or disc brake rotor are replaced.

**Notice**

- Be sure to keep turning the crank during the lever operation.
- When the bicycle wheel has been removed, it is recommended that pad spacers should be installed. Do not depress the brake lever while the wheel is removed. If the brake lever is depressed without the pad spacers installed, the pistons will protrude further than is normal. If that happens, consult a dealer.
- Use soapy water or a dry cloth when carrying out cleaning and maintenance of the brake system. Do not use commercially-available brake cleaners or silencing agents, as they can cause damage to parts such as seals.
- Read the user’s manuals for the front derailleur, rear derailleur, and brakes as well.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend SHIMANO lubricants and maintenance products.
- When using ST-RX810-LA, before riding the bicycle, confirm that the seat height will not impair the operation of the bicycle (even if the seat height has been adjusted within the adjustment range).

**WARNING**

- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
- Do not disassemble or alter this product.
Operation

Braking operation

Gear shifting operation

Be sure to keep turning the crank during the lever operation.

Caution on operation

Both lever ④ and lever ⑦ always return to the start position when they are released after shifting.

Do not push levers ④ and ⑦ simultaneously. When the levers are pushed simultaneously, the gears will not shift.

* Some models allow two-step gear shifting.

Operation of levers

<table>
<thead>
<tr>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
</table>

Shifts from smaller to larger sprocket

1. Operate the lever ④ in the direction indicated with the arrow
2. Adjust the height of the seat
3. Release the lever once the seat is at the appropriate height

Trimming (noise prevention mechanism) operation

If the front derailleur comes into contact with the chain and makes noise, perform the following operation to eliminate the noise.

![Diagram of trimming operation]