



UM-07X0A-005

User's Manual




Dual Control Lever for Hydraulic Disc Brake

IMPORTANT NOTICE

- Contact the place of purchase or a distributor for information on installation, adjustment, and replacement of the products which are not found in the user's manual. A dealer's manual for professional and experienced bicycle mechanics is available on our website (<https://si.shimano.com>).

For safety, be sure to read this “user's manual” thoroughly before use, follow it for correct use, and store it so that it can be referenced at any time.

The following instructions must be observed at all times in order to prevent personal injury and physical damage to equipment and surroundings. The instructions are classified according to the degree of danger or damage which may occur if the product is used incorrectly.

 DANGER	Failure to follow the instructions will result in death or serious injury.
 WARNING	Failure to follow the instructions could result in death or serious injury.
 CAUTION	Failure to follow the instructions could cause personal injury or physical damage to equipment and surroundings.

Important safety information

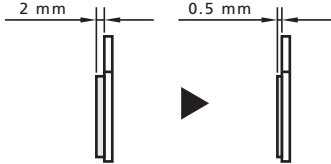
WARNING

- Because each bicycle may handle slightly differently depending on the model, be sure to learn the proper braking technique (including brake lever pressure and bicycle control characteristics) and operation of your bicycle. Improper use of your bicycle's brake system may result in a loss of control or a fall, which could lead to severe injury.
- Do not disassemble or modify the product. This may cause the product to not operate correctly, and you may suddenly fall and be seriously injured.
- This hydraulic brake system has different braking characteristics from those of the rim brake type, demonstrating relatively high braking force at the beginning of braking (higher than the rim brake type); familiarize yourself sufficiently with the braking characteristics before using it. 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 180 mm disc brake rotor if you are unable to obtain sufficient braking force with a 160 mm disc brake rotor upon a trial ride, such as when riding an electronic assist road bicycle or if the rider is heavy. Otherwise, you may lose control of the bicycle, fall, and be seriously injured.
 - If you feel that the braking force is too high or too low, stop use and consult a place of purchase or a distributor. Accidents or falls may occur due to losing control of the bicycle, possibly resulting in serious injury.

- 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.



- Do not touch the calipers or disc brake rotor while riding or immediately after dismounting from the bicycle. The calipers and disc brake rotor will become hot when the brakes are operated, so you may get burned if you touch them.
- Be careful not to allow any oil or grease to get onto the disc brake rotor and brake pads. Riding the bicycle with oil or grease on the disc brake rotor and brake pads may prevent the brakes from operating and result in serious injury due to a fall or collision.
- Check the thickness of the brake pads and do not use them if they have a thickness of 0.5 mm or less. Doing so may prevent the brakes from operating and result in serious injury.



- Do not use the disc brake rotor if it is cracked or deformed. The disc brake rotor may break, and result in serious injury due to a fall. Replace the disc brake rotor with a new one.
- Do not use the disc brake rotor if its thickness is 1.5 mm or less. Also do not use it if the aluminum surface becomes visible. The disc brake rotor may break, and result in serious injury due to a fall. Replace the disc brake rotor with a new one.
- Do not continuously apply the brakes. Doing so may cause a sudden increase in the brake lever stroke, preventing the brakes from operating and resulting in serious injury.
- Do not use the brakes with fluid leaking. Doing so may prevent the brakes from operating and result in serious injury.
- Do not apply the front brake too strongly. If you do so, the front wheel may lock and the bicycle may fall forward, and serious injury may result.
- Because the required braking distance will be longer during wet weather, reduce your speed and apply the brakes early and gently. You may fall or collide and be seriously injured.
- A wet road surface may cause tires to lose traction; therefore, to avoid this, reduce your speed and apply the brakes early and gently. If the tires lose traction, you may fall and be seriously injured.

CAUTION

■ Cautions on SHIMANO genuine mineral oil

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

■ Bed-in period

- Disc brakes have a bed-in period, and the braking force will gradually increase as the bed-in period progresses. Accidents or falls may occur due to losing control of the bicycle, possibly resulting in serious injury. (The same thing will happen when the brake pads or disc brake rotor are replaced.)

Notice

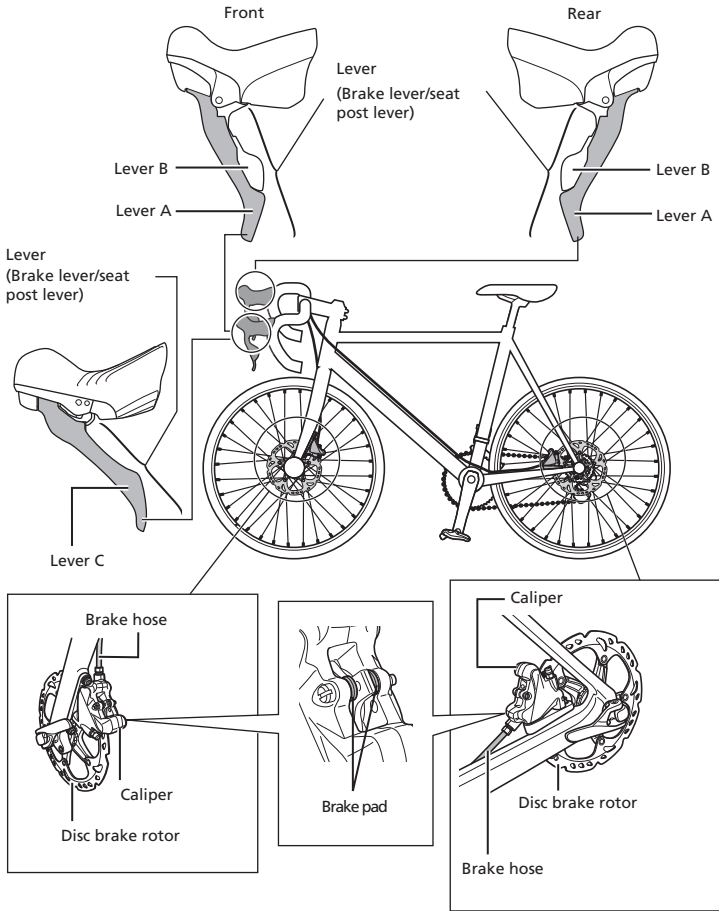
- To prevent noise and ensure the best performance, perform the bed-in procedure after replacing the brake pads or disc brake rotor.
- In the case of carbon levers, wash them with a soft cloth using a neutral detergent. Otherwise, the material may be damaged and lose strength.
- Avoid leaving the carbon levers in places where high temperatures are present. Also keep them well away from fire.
- Be sure to keep turning the crank during lever operation.
- When the bicycle wheel has been removed, it is recommended that pad spacers are 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 normal. If that happens, consult a place of purchase.
- Use soapy water and a dry cloth when cleaning and carrying out maintenance of the brake system. Do not use commercially available brake cleaners or silencing agents. Such substances can cause damage to parts such as seals.
- Also read the user's manuals for the front derailleur, rear derailleur, and brake.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- 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).
- For maximum performance we highly recommend SHIMANO lubricants and maintenance products.

Regular inspections before riding the bicycle

Before riding the bicycle, check the following items. If any problems are found, consult your place of purchase or a distributor.

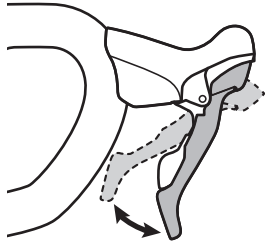
- Are there any signs of brake oil leakage?
- Do the front and rear brakes work correctly?
- Is gear shifting carried out smoothly?
- Do the pads have a thickness of 0.5 mm or more?
- Is the disc brake rotor cracked or deformed?
- Are the levers securely installed to the handlebar?
- Are there signs of cracks or peeling on the levers?
- Do any abnormal noises occur during operation?
- Can the seat post height be adjusted smoothly? (When using ST-RX810-LA)

Names of parts



How to operate

■ Operating the brakes



■ Gear shifting operations

Be sure to keep turning the crank during lever operation.

Caution on operation:

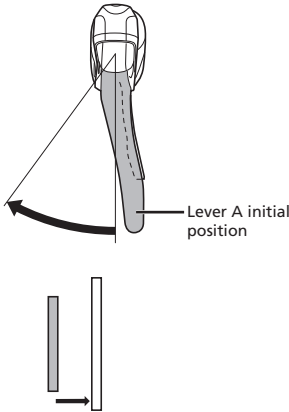
After gear shifting is completed, both levers A and B return to their initial position.

Do not push levers A and B at the same time. Gear shifting is not performed if the levers are pushed at the same time.

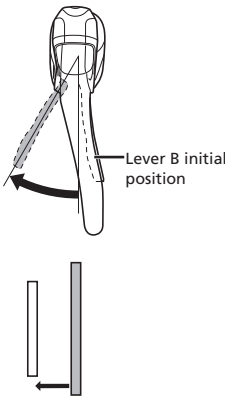
* Some models have two-step gear shifting.

■ Left hand lever operation

<Shifts to a larger chainring>

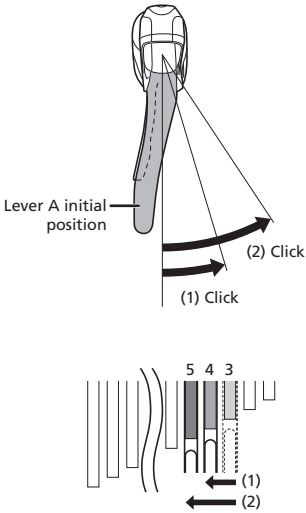


<Shifts to a smaller chainring>

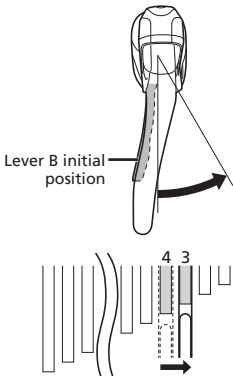


■ Right hand lever operation

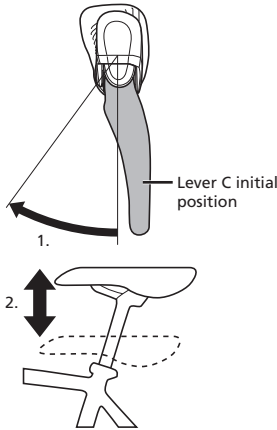
<Shifts to a larger sprocket>



<Shifts to a smaller sprocket>



■ ST-RX810-LA operation



1. Operate lever C 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 operation (noise prevention mechanism)

When noise occurs due to the front derailleur contacting the chain, perform the following operation.

Chain position	Trimming operation	Chain position	Trimming operation
	Lever operation		Lever operation
<div>Largest chainring</div> <div>High limit sprocket</div>	<div>Lever A</div> <div>Click</div> <div>(Make contact)</div>	<div>Largest chainring</div> <div>Low limit sprocket</div>	<div>Lever B</div> <div>Click</div> <div>(Make contact)</div>
<div>Smallest chainring</div> <div>High limit sprocket</div>		<div>Smallest chainring</div> <div>Low limit sprocket</div>	

How to perform bed-in

- To optimize the performance of the brake pads and disc brake rotor, perform the bed-in procedure as explained in the steps below:
1. Ride your bicycle in a flat and safe area without obstacles and accelerate to a moderate speed.
 2. Operate the brake lever until you slow down to walking speed.
Do this only with one brake lever at a time. Be careful when performing this procedure. Always operate your brake lever with moderation, especially when you bed in the front brake.
 3. Repeat steps 1 and 2 for at least 20 times for both the front and rear brakes.
While repeating the process, the brake force will increase.

SHIMANO

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