

Dual Control Lever

For time trial bar / shifting switch on top of aero bar



User's manuals in other languages are available at : <http://si.shimano.com>

IMPORTANT NOTICE


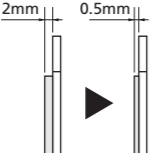
- Contact the place of purchase or a bicycle dealer for information on installation and adjustment of the products which are not found in the user's manual. A dealer's manual for professional and experienced bicycle mechanics is available on our website (<http://si.shimano.com>).
- Do not disassemble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

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

Important Safety Information

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

⚠ WARNING

- When the shifting switch is operated, the motor which drives the front derailleur will operate to the shifting position without stopping, so be careful not to get your fingers caught.
- 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.
- Do not use 203 mm and 180 mm disc brake rotors. The braking force increases excessively and gets out of control.
- The 160 mm disc brake rotors provide a higher braking force than the 140 mm disc brake rotors. Make sure that you completely understand the braking characteristics before using the brakes.
- Please make sure 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; do not touch them while riding or immediately after dismounting from the bicycle, otherwise you may 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 does get on the pads, you should consult a dealer or an agency. There is danger that the brakes may work incorrectly.
- If noise occurs during brake operation, the pads may have been worn down to where they are unusable. 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 a dealer or an agency. The disc brake rotor may break, and you may fall off the bicycle. For an Ice-Technologies rotor, if the aluminum surface becomes visible, immediately stop using the brakes as well.
- Vapor lock may occur if the brakes are applied continuously. To solve this problem, momentarily release the lever.

Vapor lock occurs when the oil inside the brake system becomes heated, which causes the water or air bubbles inside the brake system to expand. This can then result in a sudden increase in the brake lever stroke.

- The disc brake is not designed to work when the bicycle is 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 sufficiently understand the operation of the bicycle 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 owners 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.
- 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 contact with eye, wash with water and seek medical attention immediately.
- Contact with skin may cause a rash and discomfort. In the event of contact with skin, wash well 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.

Note:

- Be sure to rotate the crank when carrying out any operations which are related to gear shifting.
- The components are designed to be fully waterproof and withstand wet weather riding conditions; however, do not deliberately place them into water.
- Do not clean the bicycle in a high-pressure car wash. If water gets into any of the components, operating problems or rusting may result.
- Handle the products carefully, and avoid subjecting them to strong shock.
- Be careful not to let water get into the terminal.
- Do not use thinners or similar substances to clean the products. Such substances may damage the surfaces.
- In the case of carbon levers, wash them with a soft cloth. Be sure to use a neutral detergent. Otherwise, the material may brake down and be damaged.
- Avoid leaving the carbon levers in places where high temperatures are present. Also, keep them far away from fire.
- 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 dealer.
- Use soapy water and a dry cloth when cleaning and carrying out maintenance of the brake system. Do not use commercially-available brake cleansers or silencing agents, as they can cause damage to parts such as seals.
- Contact the place of purchase for updates of the product software. The most up-to-date information is available on the Shimano website.
- Also read the manuals for the brake and other equipment to be connected.
- 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.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

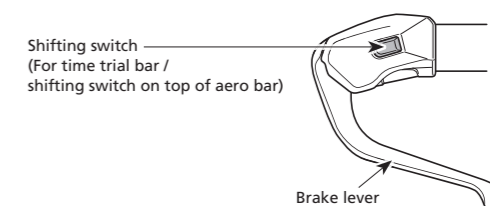
- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Regular inspections before riding the bicycle

Before riding the bicycle, check the following items. If any problems are found with the following items, contact the place of purchase or a bicycle dealer.

- Is the brake oil leaking?
- Do the front and rear brakes work correctly?
- Does the brake lever have sufficient freeplay?
- Does each pad have a thickness of 0.5 mm or more?
- Is the disc brake rotor cracked or deformed?
- Does gear shifting occur when the shifting switches are operated?
- Are the levers securely installed to the handlebar?
- Do any abnormal noises occur during operation?

Names of parts



Operation

Gear shifting operation

Be sure to rotate the crank when carrying out any operations which are related to gear shifting.

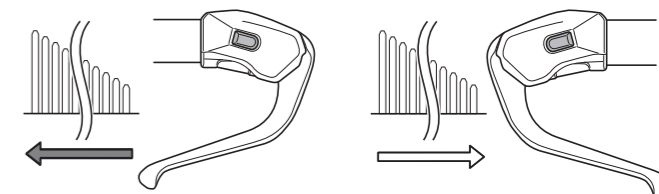
Shifting switch operation (Initial settings)

< Shifting switch (Left lever) >

The chain moves from a small rear sprocket to a larger rear sprocket.

< Shifting switch (Right lever) >

The chain moves from a large rear sprocket to a smaller rear sprocket.



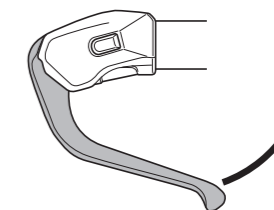
Actual behavior may differ depending on the connected components and software version.

It is possible to switch the shifting assignments (shifting up and shifting down) of the shifting switches (on left and right levers) and change multi shift mode settings.

* Contact the place of purchase for details on changing the shifting switches.

Braking operation

This product is equipped with a reach adjustment function. For further details and adjustments, consult the place of purchase.



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