

User's Manual

Wheel Set (for Disc Brake)



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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

- 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.
- **Check that the wheels are fastened securely before riding the bicycle. Using the axle release lever incorrectly may cause the wheel to fall off, etc. and lead to serious injury due to a fall or collision.**
- Use the appropriate air pressure indicated on the tire and rim. If the maximum pressures indicated on the tires and rims differ, be sure not to exceed the maximum pressure with the lower value. A higher pressure than indicated can cause a sudden puncture and/or sudden release of the tire, which can result in serious injury.

ROAD wheel set

WH-R9270-TL / WH-R8170-TL / WH-RS710-TL: Maximum pressure = 7.5 bar / 109 psi / 750 kPa

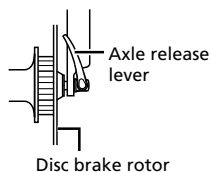
WH-R9170-TL / WH-RS770-TL: Maximum pressure = 8 bar / 116 psi / 800 kPa

WH-RS370-TL: Maximum pressure = 6.5 bar / 94 psi / 650 kPa

GRAVEL wheel set

WH-RX880-TL / WH-RX870-TL / WH-RX570-TL / WH-RX180-TL: Maximum pressure = 5 bar / 72 psi / 500 kPa

- Before riding the bicycle, check the wheels to make sure that there are no bent or loose spokes, dents, scratches or cracks on the rim surface. Do not use the wheel if any of these problems are found. The wheel may break, and you may fall. Check also that there is no carbon peeling or cracking.
- Do not use the ROAD wheel set on unpaved surfaces. The ROAD wheel set is designed for paved surfaces. If the wheels are used on unpaved surfaces, they may become bent or damaged, and accidents may result.
- Do not use the GRAVEL wheel set in harsh conditions such as on rough roads. Do not use for downhill bicycle riding or freeriding, etc. otherwise the wheel may become bent or otherwise damaged if it is subjected to a strong impact, and accidents may occur as a result.
- Do not use with rim brakes. These wheels are designed exclusively for use with disc brakes. Using these wheels with rim brakes could damage the rims and result in an accident that can lead to a serious injury or even death.
- Confirm that the axle release lever does not interfere with the disc brake rotor even when it is fully engaged. The axle release lever may interfere with the disc brake rotor if it is on the disc brake rotor side, which is unsafe. If the axle release lever interferes with the disc brake rotor, immediately stop use and contact the place of purchase or a distributor.



- Check how to use the axle release lever. Using the axle release lever incorrectly may cause the wheel to fall off, etc. and lead to serious injury.

- 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. Check that the brake system has cooled down sufficiently before attempting brake system maintenance.
- Do not 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.
- Read the disc brake manual carefully, and keep it in a safe place for later reference.
- For details on the E-THRU axle, refer to the E-THRU axle user's manual.
- The tires should be installed and removed by hand. If this is difficult, a resin tire lever for tubeless wheels may be used. In such cases, be sure to check that the rim surface has not been dented, scratched, or cracked as there is a risk of causing damage to the air seal between the tire and the rim, which would result in air leakage. For carbon rims, check that there is no carbon peeling or cracking, etc. Finally, make sure that there is no air leakage.

F12 (Front 12 mm Axle), R12 (Rear 12 mm Axle) Wheel (Thru Axle)

- This wheel can only be used in combination with the special front fork/frame and the through axle. If it is used in combination with any other front fork/frame or through axle, it may cause the wheel to become detached from the bicycle during riding and result in serious bodily injury.

CAUTION

- Note that a higher rim is more easily affected by the wind and makes riding unstable.
- **Bed-in period**
 - Disc brakes have a bed-in period, and the braking force will gradually increase as the bed-in period progresses. Make sure that you are aware of any such increases. Otherwise, you may lose control of the bicycle, fall, and be seriously injured. The same thing will happen when the brake pads or disc brake rotor are replaced.

Notice

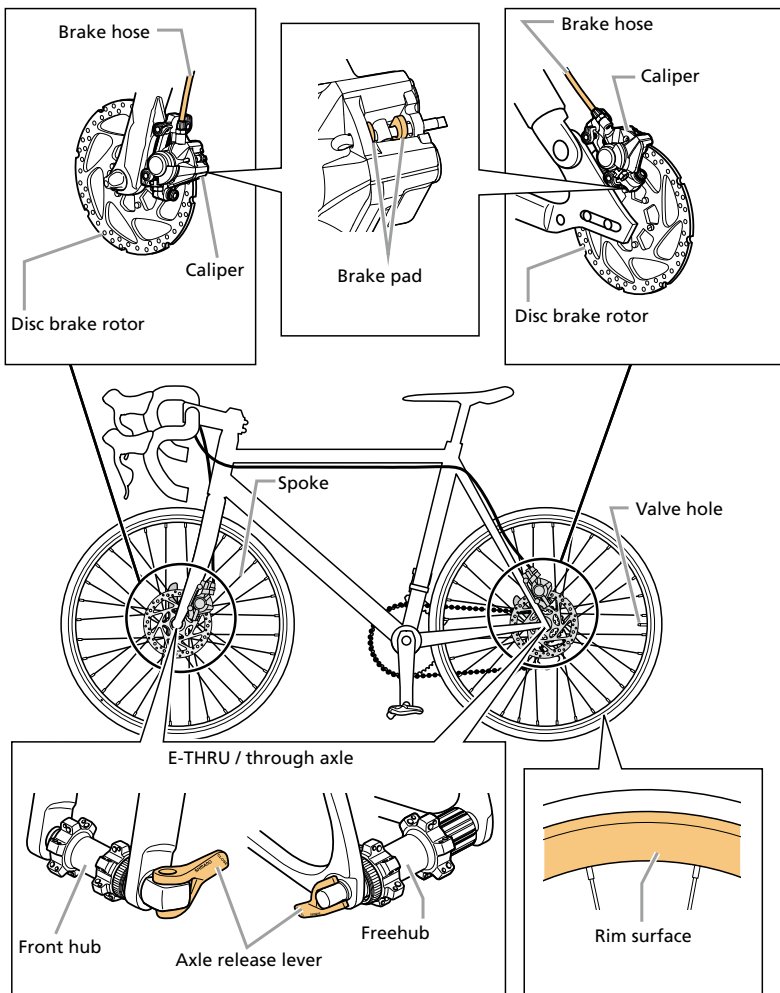
- For the use of the supplied nipple wrench tool, contact your place of purchase or a distributor for their assistance.
- Special nipple wrenches are available as optional accessories.
- Do not oil the internal parts of the hub. Otherwise, the grease will flow out.
- It is recommended that you ask a place of purchase to adjust the spoke tensions if there is any deviation in the spokes and after the first 1,000 km of riding.
- Do not clean the hub areas with a high-pressure wash. Water may get inside the hubs, which can degrade performance.
- Use a neutral detergent when cleaning wheels. Other cleaners may damage the wheels. Do not clean any areas that have been instructed not to be cleaned.
- Do not forcibly scrub wheel stickers, painted parts, or printed parts. This may peel off the stickers or damage the paint or printing.
- Be sure to also read the manual for the disc brakes.
- 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.

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 the spokes broken or loose?
- Is the rim surface dented, damaged, or cracked?
- Are the wheels secure?
- Are there any signs of brake oil leakage?
- Do the pads have a thickness of 0.5 mm or more?
- Is the disc brake rotor cracked or deformed?
- Is it hard to rotate the wheels?
- Is abnormal noise emitted from the wheels?

Names of parts



SHIMANO

SHIMANO NORTH AMERICA BICYCLE, INC.
One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003

SHIMANO EUROPE B.V.
High Tech Campus 92, 5656 AG Eindhoven, The Netherlands Phone: +31-402-612222
Only EU General Contact : contactshimano@shimano-eu.com

SHIMANO INC.
3-77 Oimatsu-cho, Sakai-ku, Sakai City, Osaka 590-8577, Japan