



Rear Freehub



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 them for correct use.

Important Safety Information

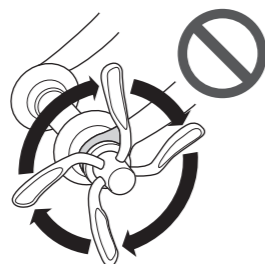
Guidelines that require replacement, contact the place of purchase or a bicycle dealer.

WARNING

- Check that the wheels are fastened securely before riding the bicycle. Using the quick release lever incorrectly may cause the wheel to fall off, etc. and lead to serious injury due to a fall.
- After reading the user's manual carefully, keep it in a safe place for later reference.

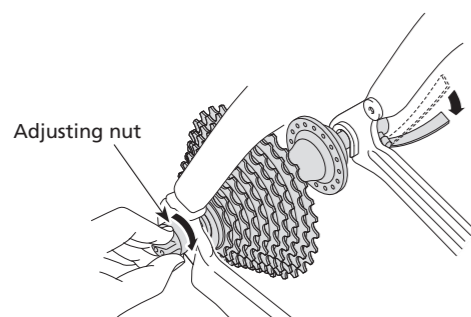
CAUTION

- Never fasten a wheel to a frame by rotating the quick release lever as shown in the diagram on the right. Simply rotating the lever in a circular motion will not fasten the wheel to the frame. Detachment of the wheel as a result of improper hub installation can result in serious bodily injury.



Note

- Do not apply any oil to the inside of the hub. Otherwise, the grease will flow out.
- If the quick release lever can be easily pushed to the CLOSE position, this means the clamping strength is insufficient. Return the quick release lever to the position perpendicular to the bicycle frame and again turn the adjusting nut clockwise to increase the clamping strength. Push the quick release lever back to the CLOSE position.



- If the clamping strength is adjusted too strong and the quick release lever cannot be pushed to the CLOSE position, turn the adjusting nut in a counter-clockwise direction to reduce the clamping strength. When doing this, do not fully release the adjuster nut. Turn it 1/8 of a revolution, and then try to push the lever to CLOSE, **to set the maximum clamping strength with which you can push the quick release lever to the CLOSE position.**



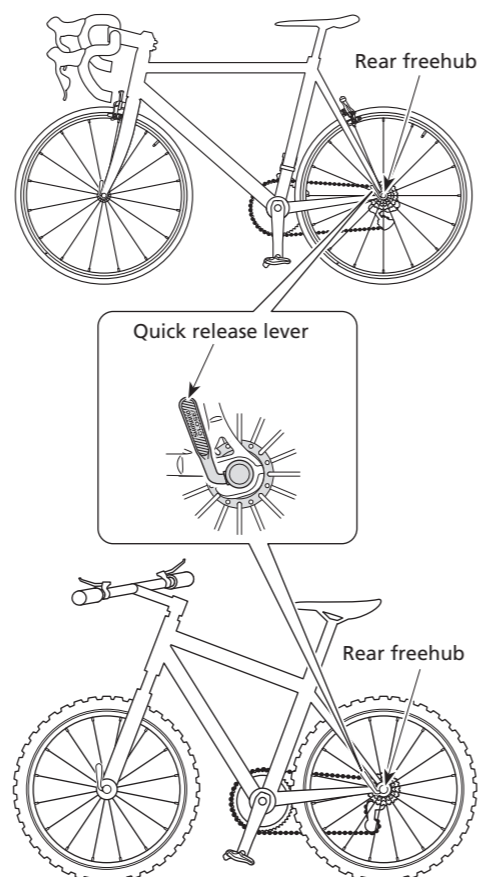
- Use a neutral detergent when cleaning hubs. Other cleaners may damage the hubs. Do not clean any areas that have been instructed not to be cleaned.
- Do not clean the hub areas with a high-pressure wash. Water may get inside the hubs, which can degrade performance.
- Products are not guaranteed against 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 with the following items, contact the place of purchase or a bicycle dealer.

- Are the wheels fixed?
- Do the wheels rotate smoothly?
- Are there any abnormal noises?

Names of parts

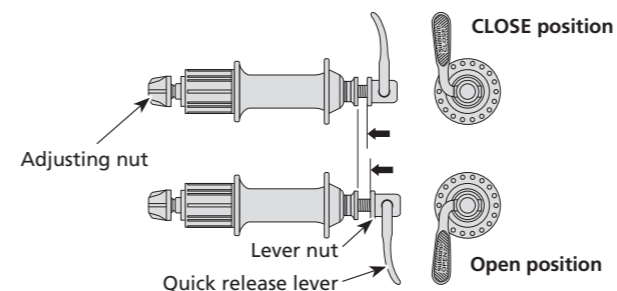


What is a Quick Release?

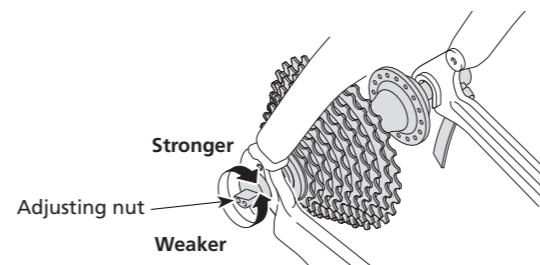
It is a mechanism that uses a single quick release lever operation on the hub to enable the wheel to be easily installed and removed.

Quick Release function

When the quick release lever is brought to the closed position, the lever nut moves inward. The force of this clamps the wheel to the frame and holds the wheel securely in place.



The clamping strength is adjusted by turning the adjusting nut. When the nut is turned in a clockwise direction, the clamping strength increases, and when the nut is turned in a counter-clockwise direction, the clamping strength decreases.



Suitable dimensions of the rear end

Be sure to use only rear end widths with suitable dimensions.

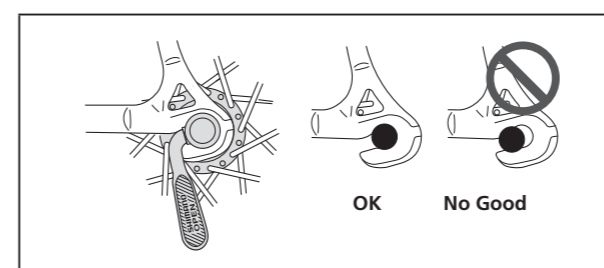
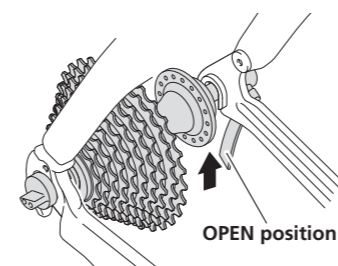


Can not use fork thicknesses less than 5 mm.
(Dura-Ace, 600 Ultegra: not less than 6 mm.)

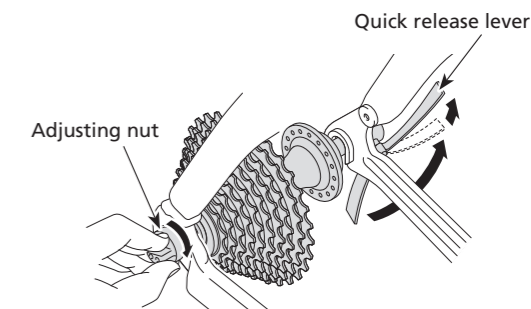
Operation

How to fasten this quick release hub

1. Move the quick release lever to the OPEN position and set the wheel so it firmly touches the interior of the rear end (See sketch below).

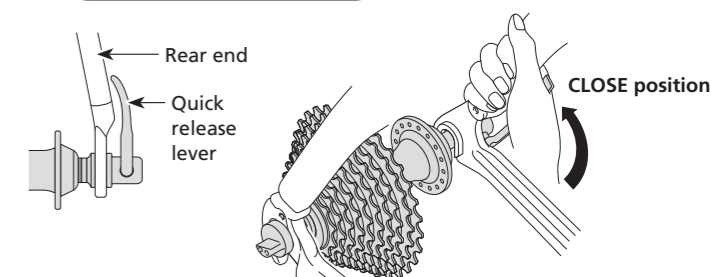


2. Open and close the quick release lever with your right hand while gradually tightening the adjusting nut with your left hand in the clockwise direction. Continue tightening the nut until you feel resistance with your hand at the point when the lever is parallel to the hub (as indicated by the dotted position in the diagram on the right).



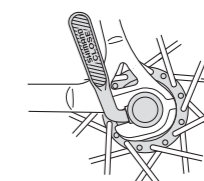
3. Grip the rear end with your fingers and use the palm of your hand to close the quick release lever with as much strength as possible. When closed, the quick release lever must be in the "CLOSE" position shown below in the diagram on the right. The side of the lever with the inscription "CLOSE" must be facing away from the bicycle, and the lever should be parallel to the rear end as shown below in the diagram on the left.

Tightening torque:
5 -7.5 N·m {43 -65 in. lbs.}



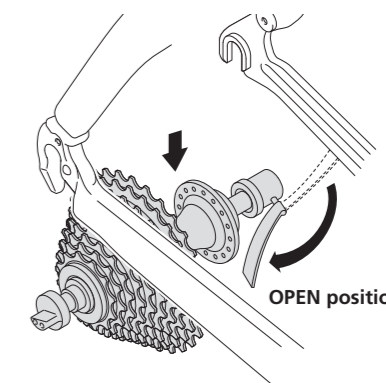
Positioning of the quick release lever

For safety, the quick release lever should be along the bicycle frame when in the CLOSE position.



Removing the wheel

Move the quick release lever from the CLOSE position to the OPEN position. And then remove the wheel.



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