

Internal Geared Hub



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.

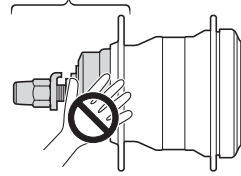
WARNING

- 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.
- Check that the wheels are fastened securely before riding the bicycle. If the wheels are loose in any way, they may come off the bicycle and cause serious injury.
- After reading the user's manual carefully, keep it in a safe place for later reference.

CAUTION

- Be sure to shift the shifting lever one gear at a time (one or two gears at a time for an 11-speed hub). Reduce the force being applied to the pedals at this time. If you try to force operation of the shifting lever or perform multi-shifting while the pedals are being turned strongly, your feet may come off the pedals and the bicycle may fall over, which could result in serious injury. Using the shifting lever to suddenly shift may also cause the outer casing to spring out of the shifting lever. This does not affect functionality because it will return to the original position after shifting.
- Avoid continuous application of the coaster brake when riding down long slopes, as this will cause the internal brake parts to become very hot, and this may weaken braking performance.
- Spin the wheel and check the braking ability of the brake.
- If the brake is used frequently, the area around the brake may become hot. Do not touch the area around the brake for at least 30 minutes after riding the bicycle.

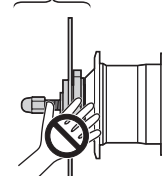
Coaster brake section



Roller brake section



Disc brake section



- If using a hydraulic disc brake, vapor lock may occur if the brakes are applied continuously. To relieve this condition, momentarily release the lever.

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

Note

- A noise is generated by the gear-shifting structure in the internal geared hub. If you experience an abnormal noise, either consult with the place of purchase or refer to the dealer's manual.
- Maintenance for an 11-speed hub
 - 1) The oil port bolt on the hub shell is used to replace oil. Never loosen it unless you are replacing oil. Oil could leak and spray.
 - 2) In order to maintain proper performance, it is recommended that you contact the place of purchase or a bicycle dealer to carry out maintenance such as internal oil replacement after riding 1,000 km from the start of use and after that, about once every two years (or once about every 5,000 km if the bicycle is used very frequently).
- Maintenance for other hubs
 - 1) In order to maintain proper performance, it is recommended that you ask the place where you purchased the bicycle or your nearest Pro shop to carry out maintenance such as greasing the internal hub about once every two years starting from the first time of use (or once about every 5,000 km if the bicycle is used very frequently). Furthermore, it is recommended that you use the Shimano internal hub grease or lubrication kit when carrying out maintenance. If the special grease or lubrication kit is not used, problems may occur such as the gear shifting not working correctly.
- The internal hub is not completely waterproof. Avoid using the hub in places where water might get inside and do not use high-pressure water to clean the hub, otherwise the internal mechanism may rust.
- The chainrings should be periodically washed with a neutral detergent. In addition, cleaning the chain with neutral detergent and lubricating it can be an effective way of extending the life of the chainrings and the chain.
- If the chain has started skipping, replace the gears and the chain at a dealer or an agency.
- Never place your foot on the bell crank. Otherwise, gear shifting may not function properly.
- Stop pedaling or reduce the force being applied to the pedals when shifting the gears. This allows for smooth gear shifting.
- Practice gear shifting often.
- 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

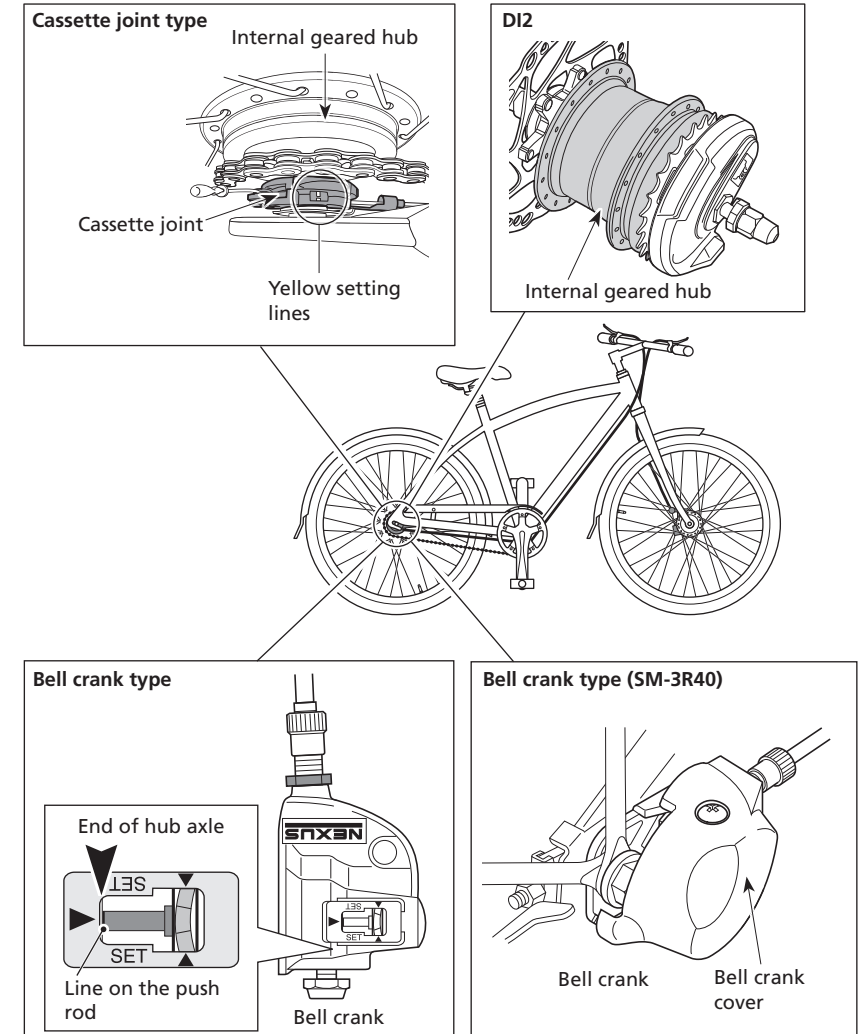
Before riding the bicycle, check the following items. If any problems are found with the following items, contact the place of purchase or a bicycle dealer.

- Is gear shifting carried out smoothly?
- Are the setting lines of the cassette joint in the correct position?
- Is the bell crank push rod in the correct position?
- Is there any noticeable damage to the electric wires?
- Do any abnormal noises occur during operation?

* For information on how to inspect the shifting cable adjustment (position of the setting lines, position of the push rod), refer to the user's manual for the shifting lever.

Names of parts

The components may differ depending on the specifications of the internal geared hub used.



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Please note: specifications are subject to change for improvement without notice. (English)
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