

SW-NX10 HB-NX10

Hub Dynamo Switch

High-Powered
Hub Dynamo

Before use, read these instructions carefully, and follow them for correct use.

CAUTION

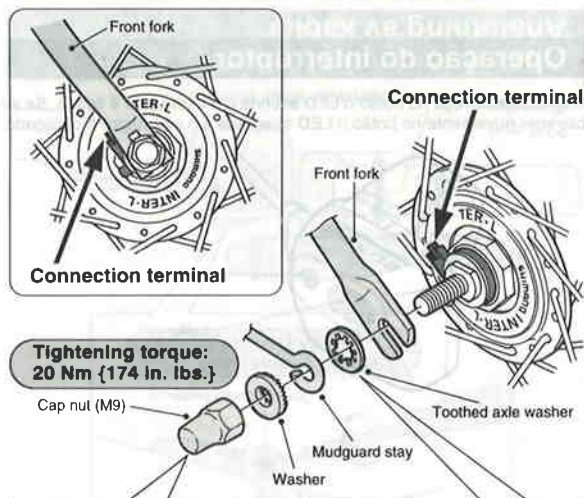
The hub dynamo generates an extremely high voltage. Never touch the connection terminal of the hub dynamo directly while riding the bicycle or while the wheel is spinning. Touching the dynamo terminal may cause an electric shock.

NOTE

- Install the hub dynamo to the front fork so that the side with the connection terminal is on the right when facing toward the front of the bicycle.
- Check that all connections (front light, taillight, ground and hub dynamo connection terminal) have been made securely before riding the bicycle with the hub dynamo installed.
- The hub dynamo only operates when the bicycle is moving at a speed of 2 mph (4 km/h) or higher, and therefore it will not operate at slower speeds such as when the bicycle is starting off. Moreover, the lights may flicker sometimes when the bicycle is moving at speeds between 2 – 6 mph (4 – 10 km/h).
- Replace the light bulbs as soon as possible if they become blown.
- Use a 6 V/2.4 W bulb for the front light and a 6 V/0.6 V bulb for the taillight.
- Do not disassemble the internal parts of the hub and switch.
- The SW-NX10 (switch) has a built-in voltage regulator which ensures that the voltages which are applied to the bulbs do not exceed the rated voltages, a feature which helps to extend the service lives of the bulbs. The above feature cannot be obtained if the HB-NX10 (hub dynamo) is used only by itself.
- This hub dynamo should only be used for wheels with diameters of between 400 – 700 mm.
- The hub dynamo will cause the turning of the wheel to become slightly heavier because of the magnet inside the hub.

Installation of the front wheel

Install the wheel so that the side with the hub dynamo connection terminal is on the right side when looking toward the front of the bicycle, and so that the hub connection terminal is aligned with the front fork. Do not force the connection terminal to turn after the cap nut has been tightened.

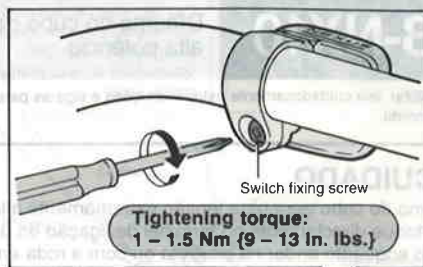


Note:
When tightening the cap nuts, be careful not to concentrate all of the effort for tightening and loosening the cap nut on one side of the wheel only, otherwise the hub axle may turn, which could excessively tighten or loosen the lock nuts.

Note:
Check that the toothed axle washer perforates the paint surface of the front fork. If the toothed axle washer is not perforating the paint surface, the light will not illuminate properly, so scrape away a small amount of paint from the front fork.

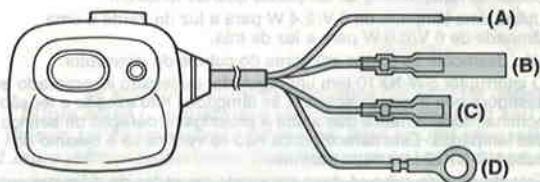
Installation of the switch

Install the switch to the left side of the handlebars. Make sure that the switch is not touching the brake lever bracket at this time.



Connection of the cables

Connect each of the cables securely as shown in the illustration below.

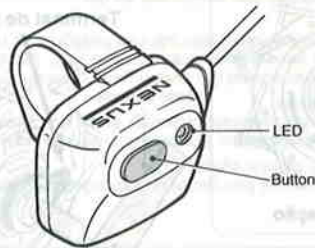


- (A) To base of front light
- (B) To taillight connection terminal
- (C) To hub dynamo connection terminal
- (D) To front light fixing screw (ground terminal)

It is recommended that a taillight with a stand light function be used to ensure safer riding by preventing flickering of the light.

Operating the switch

When the button is pressed, the LED illuminates and the switch turns on. If the button is pressed once more, the LED switches off and the switch turns off.



These service instructions explain how to use and maintain the Shimano bicycle parts which have been used on your new bicycle. For any questions regarding your bicycle or other matters which are not related to Shimano parts, please contact the place of purchase or the bicycle manufacturer.

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

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