

# Wireless Unit



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

- **When the shifting switch is operated, the motor which drives the rear derailleur will operate to the shifting position without stopping, so be careful not to get your fingers caught.**
- After reading the user's manual carefully, keep it in a safe place for later reference.

### Note

- This is a small waterproof connector. Do not repeat connecting and disconnecting it. It may impair the function.
- The components are designed to be fully waterproofed to 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 any strong shocks.
- Contact the place of purchase for updates of the product software. The most up-to-date information is available on the Shimano website.
- Do not use thinners or similar substances to clean the products. Such substances may damage the surfaces.
- Be careful not to let water get into the terminal.

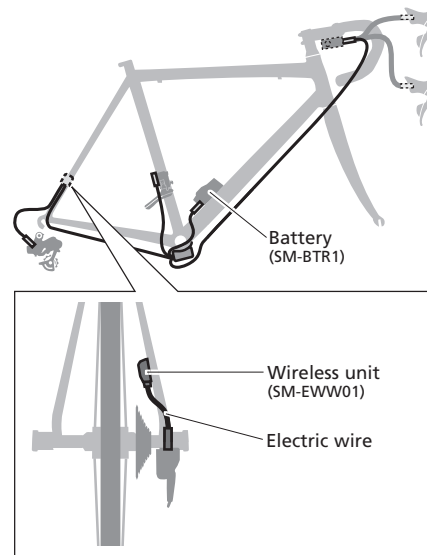
- Store in a safe place out of the reach of small children to avoid letting them swallow by mistake.
- 2.4GHz digital wireless system  
2.4GHz-frequency digital wireless technology, which is the same technology used for wireless LAN.  
However, in a very rare occasions, objects and places may generate strong electromagnetic, waves and interference, which may result in incorrect measurement.  
\* Television, PC, radios, motors/engines, or in car and trains.  
\* Railroad crossings and near railway tracks, around television transmitting stations and radar bases.  
\* Other wireless computers or digitally controlled light.
- 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 the wireless unit securely installed to the frame?
- Is there sufficient charge remaining in the battery?
- Is there any noticeable damage to the electric wires?

## Names of parts



## Functions

The wireless unit transmits the following three types of information to compatible cycle computers or receivers.

- 1) Number of gears (front, rear)
- 2) Di2 battery level (External type: SM-BTR1, Built-in type: SM-BTR2)
- 3) Adjustment mode information

For information on which of the above types of information is to be displayed, refer to the manual for your cycle computer or receiver.

\* The latest functions can be checked by updating the software via E-tube Project. For details, consult the place of purchase.

## How to conduct pairing

To conduct pairing, the cycle computer needs to be in pairing mode. For information on how to put the cycle computer into pairing mode, refer to the manual for the cycle computer.

- 1) Put the cycle computer into pairing mode.
- 2) **When using an external battery**  
Check that the electric wires are connected to the wireless unit. Then, remove and remount the external battery.  
**When using a built-in battery**  
Check that the electric wires are connected to the wireless unit. Then, remove the electric wires (two wires) from the wireless unit and reconnect them.  
(Pairing communication is conducted for a few tens of seconds after the battery is remounted or the electric wires are reconnected to the wireless unit.)
- 3) This completes the pairing process.

Check on the cycle computer to see if pairing has succeeded. If pairing cannot be performed in the way described above, refer to the manual for your cycle computer. For information on how to show the number of gears or the Di2 battery level, refer to the manual for the cycle computer.

## SHIMANO

SHIMANO AMERICAN CORPORATION  
One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-5003

SHIMANO EUROPE B.V.  
Industrieweg 24, 8071 CT Nunspeet, The Netherlands Phone: +31-341-272222

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

Please note: specifications are subject to change for improvement without notice. (English)  
© Nov. 2014 by Shimano Inc. HTR