

# Junction (A) (EW-RS910)



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.
- The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by SHIMANO INC. is under license. Other trademarks and trade names are those of their respective owners.

**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 front 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

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

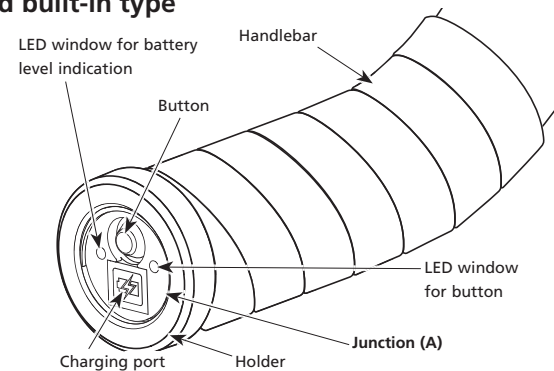
## Regular inspections before riding the bicycle

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.

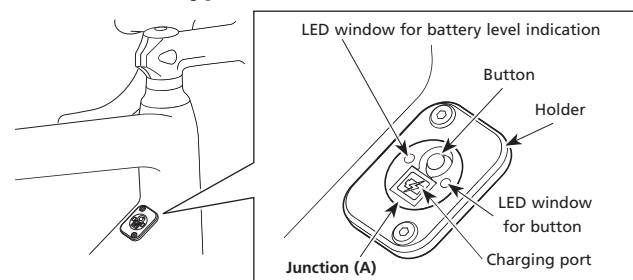
- Is junction (A) secured in place?
- Is there sufficient charge remaining in the battery?
- Is there any noticeable damage to the electric wires?

## Names of parts

### Bar end built-in type



### Frame built-in type



## How to make connections

### Bluetooth® LE connection

Before setting up a connection, turn on Bluetooth LE on the smartphone/tablet.

- 1) Open E-TUBE PROJECT and set it to listen for Bluetooth LE signals.
- 2) Press the button on junction (A) until the green LED and red LED begin to blink alternately. The unit will begin signal transmission. The unit name displays in E-TUBE PROJECT.
- 3) Select the unit name displayed on screen.

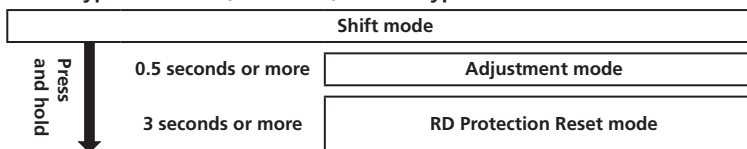
\* To disconnect, cancel the Bluetooth LE connection from the smartphone/tablet. (The cycle computer will exit connection mode and return to regular operation mode.)

## Operation

### Switching operating modes

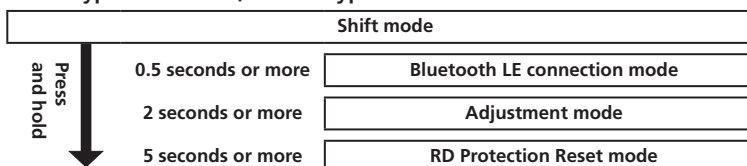
The available operation modes differ depending on the unit combined with junction (A).

**External type: SM-BMR1, SM-BMR2, Built-in type: SM-BTR2**



To end Adjustment mode or RD Protection Reset mode, press for 0.5 seconds or more. For the setting procedure, contact a dealer or an agency.

**External type: BM-DN100, Built-in type: BT-DN110**



To end Adjustment mode or RD Protection Reset mode, press for 0.5 seconds or more. For the setting procedure, contact a dealer or an agency.

### Shift mode selection

A double click of the mode switch changes the shift modes as follows.

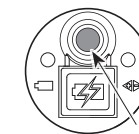
Each time the shift mode is changed, the LEDs change as in the illustrations below.

|                             |   |
|-----------------------------|---|
| <b>Manual shift</b>         | LED for battery level indication: Illuminates green (for 2 seconds) |
|                             | LED for button: Illuminates red (for 2 seconds)                     |
| <b>Synchronized shift 1</b> | LED for battery level indication: Blinks green (2 times)            |
|                             | LED for button: Blinks red (2 times)                                |
| <b>Synchronized shift 2</b> | LED for battery level indication: Blinks green (3 times)            |
|                             | LED for button: Blinks red (3 times)                                |

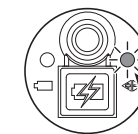
### About the RD Protection function

\* Rotate the front chainwheel while restoring operation after the RD Protection function has been activated.

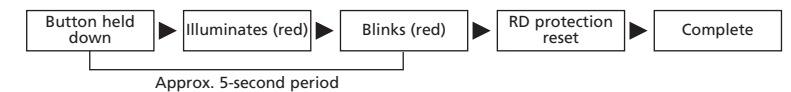
If the bicycle receives a strong impact, the RD Protection function operates and the connection between the motor and the link is momentarily severed so that the rear derailleur will no longer operate. This is done in order to protect the system at times such as if the bicycle falls over. If this happens, press the button on junction (A) for 5 seconds or more. This will restore the connection between the motor and the link and clear the RD Protection function for the rear derailleur. If recovery cannot be performed through button operation, manual operation is also possible. Consult with a distributor in advance.



Button (push)



Illuminates (red)



When the red LED on junction (A) is illuminated, the rear derailleur cannot shift gears. Press the button until the red LED turns off.

### How to check battery level

Press and hold either shifting switch for 0.5 seconds or more.

The state of the LED for battery level indication will change to one of the below. After indicating the battery level, the LED will indicate the current shift mode.

| Battery indicator |   |                                   |
|-------------------|---|-----------------------------------|
| 100 %             | ● | Illuminates green (for 2 seconds) |
| 50 %              | ☀ | Blinks green (5 times)            |
| 25 %              | ● | Illuminates red (for 2 seconds)   |
| 0 %               | ☀ | Blinks red (5 times)              |

\* When the battery charge is low, first the front derailleur will stop operating, and then the rear derailleur will stop operating. When the battery is fully spent, the derailleur will stop at the positions where they were last shifted to. If the battery indicator is illuminated red, it is recommended that you recharge the battery as soon as possible.

## 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 3-77 Oimatsu-cho, Sakai-ku, Sakai-shi, Osaka 590-8577, Japan  
Please note: specifications are subject to change for improvement without notice. (English)  
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