




# Junction [A]

## IMPORTANT NOTICE

- Contact the place of purchase or a distributor for information on installation, adjustment, and replacement 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 (<https://si.shimano.com>).
- 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, follow it for correct use, and store it so that it can be referenced at any time.**

The following instructions must be observed at all times in order to prevent personal injury and physical damage to equipment and surroundings. The instructions are classified according to the degree of danger or damage which may occur if the product is used incorrectly.

 <b>DANGER</b>	Failure to follow the instructions will result in death or serious injury.
 <b>WARNING</b>	Failure to follow the instructions could result in death or serious injury.
 <b>CAUTION</b>	Failure to follow the instructions could cause personal injury or physical damage to equipment and surroundings.

## Important safety information

### WARNING

- Do not disassemble or modify the product. This may cause the product to not operate correctly, and you may suddenly fall and be seriously injured.
- **When operating the shifting switch, be careful not to allow your fingers to be caught in the derailleur. The powerful motor which drives the electronic gear shifting derailleur will operate without stopping until the shifting position is reached.**

## Notice

- Be sure to attach dummy plugs to any unused E-TUBE ports.
- Do not keep connecting and disconnecting the small waterproof connector. It may impair the function.
- Be careful not to get water into the E-TUBE ports.
- 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 with a high-pressure washer. If water gets into any of the components, operating problems or rusting may result.
- Handle the components carefully, and avoid subjecting them to strong shock.
- Do not use the thinners or harsh solvents to clean the products. Such solvents may damage the surface.
- Contact the place of purchase for updates of the component 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.

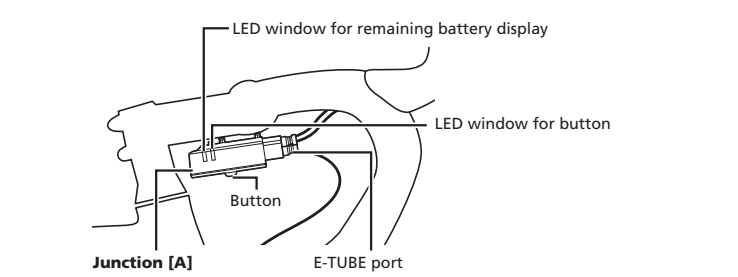
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## Regular inspections before riding the bicycle

Before riding the bicycle, check the following items. If any problems are found, consult your place of purchase or a distributor.

- Is junction [A] fully secured?
- Is there sufficient charge remaining in the battery?
- Is there any noticeable damage to the electric wires?

## Names of parts



## Connection method

### Bluetooth® LE connection

The firmware versions for Bluetooth® LE connection-compatible devices are shown below.

- BM-DN100 and BT-DN110: Ver. 4.2.3 or later
- EW-WU111 and EW-WU101: Ver. 4.1.1 or later

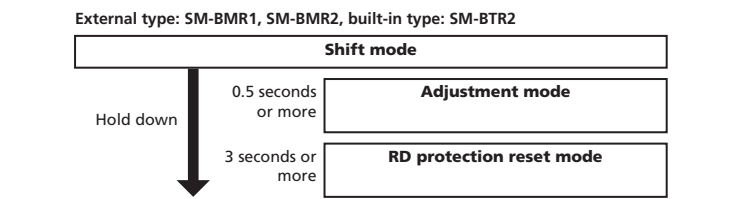
Before setting up a connection, turn on Bluetooth LE on the smartphone/tablet.

1. Start E-TUBE PROJECT and set it to listen for Bluetooth LE signals.
  2. Press the junction [A] button until the green LED and red LED start blinking alternately. The bicycle side is ready to connect. The unit name is displayed on the E-TUBE PROJECT screen.
- \* Release the mode switch or button as soon as the bicycle side is ready to be connected. If the mode switch or button is held down for any longer, a different mode will be activated.
3. Select the unit name displayed on screen.
- \* When disconnecting, cancel the Bluetooth LE connection from the smartphone/tablet. (The bicycle will switch from the connection mode to the normal operation mode.)

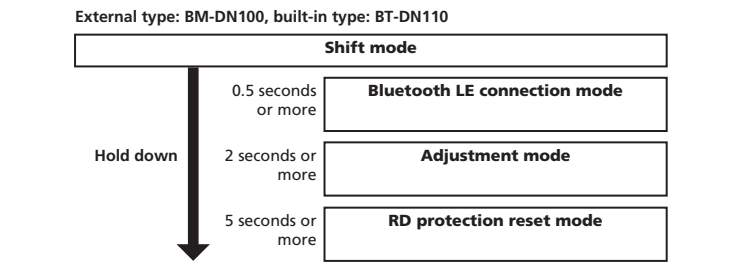
## How to operate

### ■ Switching operation modes

Operation differs depending on the combined unit.









To end adjustment mode or RD protection reset mode, press for 0.5 seconds or more.  
For the setting procedure, contact your place of purchase or a distributor.



To end adjustment mode or RD protection reset mode, press for 0.5 seconds or more.  
For the setting procedure, contact your place of purchase or a distributor.

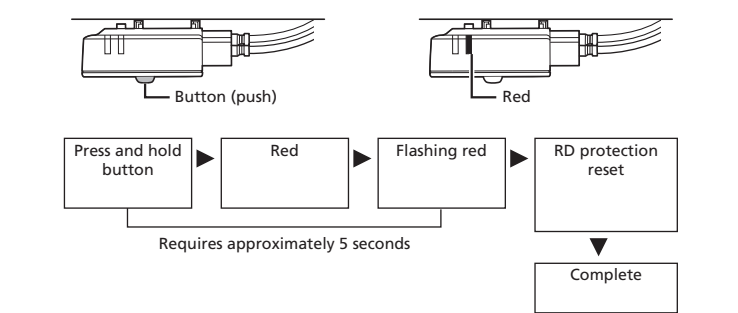
### ■ Selecting / confirming the shift mode

Double click the button to switch the shift mode.  
The LED changes as shown in the figure below each time the shift mode switches. To confirm the current shift mode, continue to hold a shifting switch connected to junction [A] for 0.5 seconds or more. After the junction [A] LED window displays the battery level, the LED window will show the current shift mode, as shown in the figure below.

LED display when selecting / confirming shift mode			
<b>Manual shift</b>	 	Remaining battery display LED:	Green (2 seconds)
		Button LED:	Red (2 seconds)
<b>Shift mode 1</b>	 	Remaining battery display LED:	Flashing green (twice)
		Button LED:	Flashing red (twice)
<b>Shift mode 2</b>	 	Remaining battery display LED:	Flashing green (3 times)
		Button LED:	Flashing red (3 times)

### ■ About the RD protection function

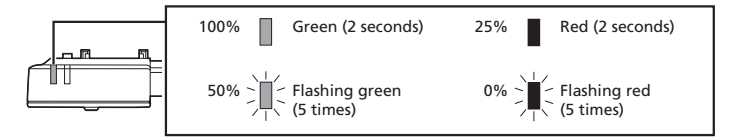
- \* Rotate the front chainwheel while restoring operation after the RD protection function has activated.
- In order to protect the system when the bicycle falls and is subjected to a strong impact, the RD protection function will activate and momentarily sever the connection between the motor and the link, impairing the proper function of the rear derailleur. When this happens, hold the junction [A] button down 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. When recovery cannot be performed via button operations, it may be possible by hand. Check with the place of purchase in advance.



When the button LED is lit red, the rear derailleur will not shift. Press the button until the button LED turns off.

### ■ Checking the battery level display

Press and hold a shifting switch connected to junction [A] for 0.5 seconds or more. The LED window for showing the remaining battery display will illuminate according to the figure below. After that, the current shift mode is displayed.



- \* When the battery level is low, the front derailleur stops operating first, then the rear derailleur. When the battery is completely drained, the derailleurs are fixed at the last gear position. It is recommended to charge the battery as soon as possible when the battery indicator lights red.



**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

**MADISON (A DIVISION OF H.YOUNG (OPERATIONS) LTD)**  
Roebuck Way, Knowlhill, Milton Keynes, Buckinghamshire, MK5 8HL, United Kingdom

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