

System information Display



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

For replacement information, 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

- When using a system information display, combine it with one of the following units. External type: BM-DN100, Built-in type: BT-DN110
- Be sure to attach dummy plugs to any unused terminals. If water gets into any of the components, operating problems or rusting may result.
- 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.
- Disconnect Bluetooth LE when not using E-TUBE PROJECT for smartphones/tablets. Using the system information display without disconnecting Bluetooth LE may result in high battery power consumption.
- 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.

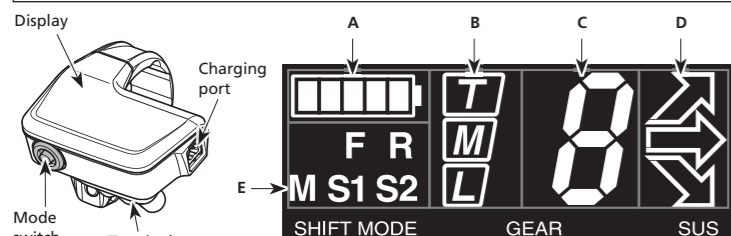
Regular inspections before riding the bicycle

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 system information display securely installed to the handlebar?
- Is there sufficient charge remaining in the battery?
- Is there any noticeable damage to the electric wires?
- Is the dummy plug attached to the terminal?

Names of parts

Some items may not be displayable or selectable depending on the connected components and software version. Consult a dealer regarding the usable items for the product you are using.

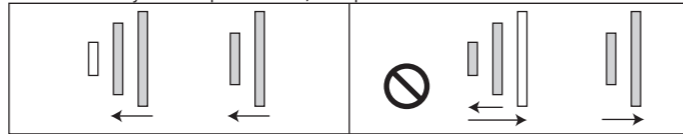


A	Battery level	D	Suspension setting
B	Front derailleur Gear position	E	Operation mode
C	Rear derailleur Gear position/RD Protection Reset mode		

A. Battery level

Display	Battery level	Display	Battery level
	81% - 100%		26% - 40%
	61% - 80%		1% - 25% *1*2*3
	41% - 60%		0% *3

- * 1 When the battery level becomes low, the operation of the suspensions is restricted to the unlocking direction. The operation of the rear suspension is restricted first, then the front suspension's is also restricted.
- * 2 When the battery level drops below 5%, the operation of the front derailleur is restricted.



- * 3 When the battery level decreases further, both the suspensions and derailleurs cease operating, with the derailleurs fixed at the last shifted position. The battery indicator blinks for 2 seconds at the time of input operation. We recommend early charging of the battery.

B. Front derailleur Gear position

The gear position of the front derailleur is displayed.

Display	Gear position
	Largest chainring
	Middle chainring
	Smallest chainring

* In the case of double specification, only the largest chainring and smallest chainring are displayed.

C. Rear derailleur Gear position/RD Protection Reset mode

Display	Details
Number	The gear position of the rear derailleur is displayed.
	RD Protection Reset will operate.

D. Suspension setting

Three types of front and rear suspension combinations can be configured.

Display	Details
	If the suspension settings are already configured, one of the settings can be selected from the screen indications.*1*2
	If the suspension settings are not configured, the suspensions are not connected, or the battery level is running low, the display will be blank.

- * 1 Suspension settings are configured in E-TUBE PROJECT. For details, consult a dealer or an agency.
- * 2 Depending on the type of suspension, settings may be factory configured at the time of shipment. Check the indications displayed on the system information display screen, and if the arrows are displayed, be sure to check the setting details.

E. Operation mode

The operation mode is displayed.

Display	Mode	Details
	Front derailleur/ Rear derailleur adjustment	Adjustment setting is done in this mode. For the setting procedure, contact a dealer or an agency.
	Manual shift	Gears are shifted manually in this mode.
	Shift mode 1	The shift mode set in E-TUBE PROJECT can be used. The initial setting for MTB is Synchronized shift 1. This setting mode is designed for riders with strong legs.
	Shift mode 2	The shift mode set in E-TUBE PROJECT can be used. The initial setting for MTB is Synchronized shift 2. This setting mode is designed for courses with considerable terrain variation.

Specifications

	SC-MT800	SC-M9051
Frequency band	2,402 - 2,480 MHz	
Maximum radio-frequency power	+4 dBm	
Firmware version	4.0.9 -	4.1.1 -

Functions

ANT connection

The system information display transmits the following three types of information to compatible cycle computers or receivers.

- Number of gears (front, rear)
- DI2 battery level
- 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.

Bluetooth® LE connection

E-TUBE PROJECT for smartphones/tablets may be used if a Bluetooth LE connection is established with a smartphone/tablet.

How to make connections

ANT connection

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

- Put the cycle computer into connection mode.
- When using an external battery
Check that the electric wires are connected to the system information display. Then, remove and remount the external battery.
When using a built-in battery
Check that the electric wires are connected to the system information display. Then, remove the electric wires from the system information display and reconnect them. (Connection transmission begins about 30 seconds after the battery is remounted or the electric wires are reconnected to the system information display.)
- This completes the connection process.

Check on the cycle computer to see if connection was successful.

If a connection cannot be made 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.

Bluetooth® LE connection

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

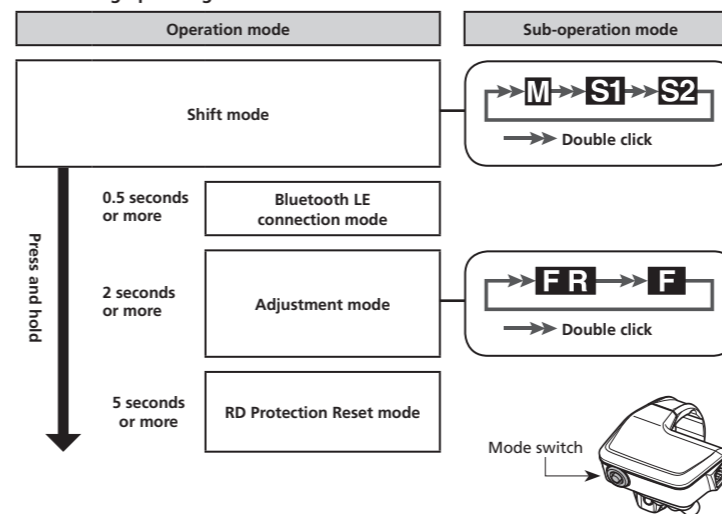
- Open E-TUBE PROJECT and set it to listen for Bluetooth LE signals.
- Press the mode switch until "C" appears on the display. The cycle computer will begin signal transmission. The unit name displays in E-TUBE PROJECT.
Release the mode switch or button as soon as the unit on the bicycle begins signal transmission. If the mode switch or button is held down for any longer, a different mode will be activated.



- 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.)

How to operate

Switching operating modes

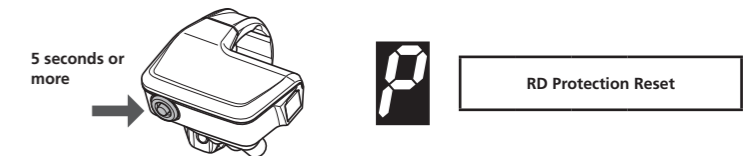


To end Adjustment mode or RD Protection Reset mode, press for 0.5 seconds or more. For the setting procedure, contact a dealer or an agency.

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 from falls etc., the RD Protection function will operate when the rear derailleur is subjected to a strong impact. The connection between the motor and the link is momentarily severed so that the rear derailleur will no longer operate. If this happens, press the mode switch 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 switch operation, manual operation is also possible. Consult with a distributor in advance.



Synchronized shift setting (only compatible with XTR DI2 and XT DI2)

Front gear position changes according to rear gear position. The initial settings for MTB are as shown in the tables. These settings can be changed in E-TUBE PROJECT. For details, consult a dealer or an agency.

<Triple specification>

Shift mode 1

CS	Smallest chainring	Middle chainring	Largest chainring
1	↓	↑	↑
2	↓	↑	↑
3	↓	↑	↑
4	↓	↑	↑
5	↓	↑	↑
6	↓	↑	↑
7	↓	↑	↑
8	↓	↑	↑
9	↓	↑	↑
10	↓	↑	↑
11	↓	↑	↑

Shift mode 2

CS	Smallest chainring	Middle chainring	Largest chainring
1	↓	↑	↑
2	↓	↑	↑
3	↓	↑	↑
4	↓	↑	↑
5	↓	↑	↑
6	↓	↑	↑
7	↓	↑	↑
8	↓	↑	↑
9	↓	↑	↑
10	↓	↑	↑
11	↓	↑	↑

<Double specification>

Shift mode 1

CS	Smallest chainring	Largest chainring
1	↓	↑
2	↓	↑
3	↓	↑
4	↓	↑
5	↓	↑
6	↓	↑
7	↓	↑
8	↓	↑
9	↓	↑
10	↓	↑
11	↓	↑

Shift mode 2

CS	Smallest chainring	Largest chainring
1	↓	↑
2	↓	↑
3	↓	↑
4	↓	↑
5	↓	↑
6	↓	↑
7	↓	↑
8	↓	↑
9	↓	↑
10	↓	↑
11	↓	↑

→ Upshifting → Downshifting

About the beep

Beeps are set to sound in the following situations during gear operation.

Beep sounds	Situation
One short beep	Indicates that the gear shifting limit has been reached. (When the chain is on the highest gear for both front and rear or lowest gear for both front and rear)
Two short beeps	Indicates that the front gears are being shifted in shift mode. These beeps sound the next time the front gears are shifted.
One long beep	Indicates that the front derailleur cannot be shifted when the battery is running low. Blinking continues for 2 seconds after the sound has stopped. (Only one beep sounds when the gears are shifted) Indicates that there is an error with the suspension. All suspension mode arrows blink and continue to blink for 2 seconds after the sound has stopped.

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