

SHIMANO STOPS

SHIMANO Total Electric Power System

User's manual

E6100 Series

Original instructions

CONTENTS

IMPORTANT NOTICE	2
Important safety information	2
NOTICE	3
Regular inspections before riding the bicycle	5
Wireless system specifications	5
Booklet Structure	6
Features of SHIMANO STEPS	7
Assist mode	7
Preparation	8
Quick guide	8
Making walking and pushing the bicycle easy (walk assist)	12
Automatic and manual gear shifting	14
Names of parts	15
Specifications	16
Troubleshooting	17
Assist function	17
Lights	18
Other	18
Appendix	19
Junction [A] (EW-EN100)	19

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>).
- Use the product according to local laws and regulations.
- 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.

DANGER

Failure to follow the instructions will result in death or serious injury.

WARNING

Failure to follow the instructions could result in death or serious injury.

CAUTION

Failure to follow the instructions could cause personal injury or physical damage to equipment and surroundings.

Important safety information

- SC-E6100 contains Lithium-ion battery.

DANGER

Handling the battery

- Do not deform, modify, disassemble or apply solder directly to the battery. Doing so may cause leakage, overheating, bursting, or ignition of the battery.
- Do not leave the battery near sources of heat such as heaters. Doing so may cause bursting or ignition of the battery.

- Do not heat the battery or throw it into a fire. Doing so may cause bursting or ignition of the battery.
- Do not subject the battery to strong shocks or throw it. If this is not observed, overheating, bursting, or fire may occur.
- Do not place the battery into fresh water or sea water, and do not allow the battery terminals to get wet. Doing so may cause overheating, bursting, or ignition of the battery.
- Use the SHIMANO specified charger and observe the specified charging conditions when charging the specified battery. Not doing so may cause overheating, bursting, or ignition of the battery.

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.

Riding precautions

- Do not to pay excessive attention to the cycle computer display while riding. Doing so can cause an accident such as a fall.
- Check that the wheels are securely installed to the bicycle before commencing riding. If the wheels are not securely installed, the bicycle may fall over and cause serious injury.
- If riding a power-assisted bicycle, make sure that you are fully familiar with the starting-off characteristics of the bicycle before riding it on roads with several vehicle lanes and pedestrian footpaths. If the bicycle starts off suddenly, accidents may result.
- Ensure that head and tail lights can turn on before riding the bicycle.

Safety precautions

- Be sure to remove the battery and charging cable before wiring or attaching parts to the bicycle. Failure to do so may cause an electric shock.
- When charging the battery while it is installed on the bicycle, do not move the bicycle. The power plug for the battery charger may come loose and not be fully inserted into the electrical outlet, resulting in risk of fire.
- Do not touch the drive unit when it has been continuously used for a long period of time. The surface of the drive unit becomes hot and could cause burns.
- Periodically clean the chain using an appropriate chain cleaner. The frequency of maintenance will vary depending on the riding conditions.

- Do not use alkaline or acidic cleaning agents for removing rust under any circumstances. If such cleaning agents are used, they may damage the chain and serious injury may result.

- Be sure to follow the instructions provided in the manuals when installing the product. It is recommended that you use SHIMANO genuine parts. Loose nuts or bolts and product damage may cause a sudden accident such as a fall and lead to serious injury.

Handling the battery

- If any liquid leaking from the battery gets into your eyes, immediately wash the affected area thoroughly with clean water such as tap water without rubbing your eyes, and seek medical advice immediately. If this is not done, the battery liquid may damage your eyes.
- Do not recharge the battery in places with high humidity or outdoors. Doing so may result in electric shock.
- Do not insert or remove the plug while it is wet. If this is not observed, electric shocks may result. If there is water leaking out of the plug, dry it thoroughly before inserting it.
- Do not subject this product to extremely low air pressure. That can result in an explosion of the incorporated battery or the leakage of flammable liquid or gas from it. Transporting this product by air is not a problem.
- Observe all federal, state and local environmental regulations when disposing of this product, because it incorporates a battery. Disposal of this product into fire or a hot oven, or mechanically crushing or cutting of it, that can result in an explosion of the incorporated battery.
- If the battery does not become fully charged even 2 hours after the designated charging time, immediately unplug the battery from the outlet and contact the place of purchase. Doing otherwise may cause overheating, bursting, or ignition of the battery. Refer to the battery charger user's manual for the designated charging time of the battery.
- Do not use the battery if it has any noticeable scratches or other external damage. Doing so may cause bursting, overheating or problems with operation.
- The operating temperature ranges for the battery are given below. Do not use the battery in temperatures outside these ranges. If the battery is used or stored in temperatures outside these ranges, fire, injury or problems with operation may occur.
 1. During discharge: -10°C - 50°C
 2. During charging: 0°C - 40°C



Riding precautions

- Observe the instructions in the user's manual for the bicycle, in order to ride safely.

Safety precautions

- Never modify the system. Doing so may cause a system error.
- Periodically check the battery charger and adapter, particularly the cord, plug, and case, for any damage. If the charger or adapter is broken, do not use it until it has been repaired.
- Use the product under the supervision of someone responsible for safety, and only as instructed. Do not allow anyone (including children) with reduced physical, sensual, or mental capacity, or those without experience or knowledge, to use the product.
- Do not allow children to play near the product.

Handling the battery

- Do not leave the battery in a place exposed to direct sunlight, inside a vehicle on a hot day, or other hot places. This may result in battery leakage.
- If any leaked fluid gets on your skin or clothes, wash it off immediately with clean water. The leaked fluid may damage your skin.
- Keep away from children.

NOTICE

Safety precautions

- If any malfunctions or other problems occur, contact the place of purchase.
- Be sure to attach dummy plugs to any unused E-TUBE ports.
- For installation and adjustment of the product, consult a dealer.
- 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 corrosion may result.
- Do not turn the bicycle upside down. There is a risk of damage to the cycle computer and switch unit.

- Handle the product carefully, and avoid subjecting it to any strong shocks.
- Although the bicycle still functions as a normal bicycle even when the battery is removed, the light does not turn on if it is connected to the electric power system. Be aware that using the bicycle under these conditions will be considered non-observance of the road traffic laws in Germany.
- When charging the battery while it is mounted on the bicycle, be careful of the following:
 - When charging, make sure there is no water on the charging port or the charger plug.
 - Ensure that the battery is locked into the battery mount before charging.
 - Do not remove the battery from the battery mount while charging.
 - Do not ride with the charger mounted.
 - Close the charging port cap when not charging.
 - Stabilize the bicycle to ensure that it does not collapse during charging.

Handling the battery

- When you carry a power-assisted bicycle in a car, remove the battery from the bicycle and place the bicycle on a stable surface in the car.
- Before connecting the battery, make sure that there is no water collecting in the area where the battery will be connected (connector), and that it is not dirty.
- The use of a SHIMANO genuine battery is recommended. If using a battery from another manufacturer, make sure to carefully read the manual thoroughly before use.

About used batteries

Disposal information for countries outside the European Union



This symbol is only valid within the European Union. Follow local regulations when disposing of used batteries. If you are not sure, consult the place of purchase or a bicycle dealer.

Connection and communication with PC

A PC linkage device can be used to connect a PC to the bicycle (system or components), and E-TUBE PROJECT can be used to carry out tasks such as customizing single components or the whole system and updating firmware.

- PC linkage device: SM-PCE1/SM-PCE02
- E-TUBE PROJECT: PC application
- Firmware: software inside each component

Connection and communication with smartphone or tablet

It is possible to customize single components or the system, and update firmware, using E-TUBE PROJECT for smartphones/tablets after connecting the bicycle (system or components) to a smartphone or tablet via Bluetooth® LE.

- E-TUBE PROJECT: app for smartphones/tablets
- Firmware: software inside each component

Care and maintenance

- The number found on the battery mount key is necessary when purchasing spare keys. Keep it in a safe place.
- Contact the place of purchase for updates of the product software. The most up-to-date information is available on the SHIMANO website. For details, refer to the "Connection and communication with devices." section.
- Do not use thinner or other solvents to clean any of the products. As such substances may damage the surfaces.
- You should periodically wash the chainrings in a neutral detergent. In addition, cleaning the chain with neutral detergent and lubricating it can be an effective way of extending the useful life of the chainrings and the chain.
- Use a damp cloth, with the water well wrung out, when cleaning the battery and plastic cover.
- For any questions regarding handling and maintenance, contact the place of purchase.
- 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.

Assist

- If the settings are not correct, for instance if the chain tension is too tight, the proper assist force may not be obtained. If this happens, contact the place of purchase.

< DU-E6110 >

- This component is compatible with coaster brakes. If the crank is not installed in the correct position or the chain tension has not been correctly adjusted, contact the place of purchase, as there may not be proper assistance power.

Label

- Some of the important information contained in this user's manual is also indicated on the battery charger label.

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 distributor.

- Does the drive train perform gear shifting smoothly?
- Are the components fixed securely and free from damage?
- Are the components securely installed to the frame/handlebar/stem, etc.?
- Do any abnormal noises occur while riding?
- Is there sufficient charge remaining in the battery?

Please avoid wearing clothes that can get caught in the chain or wheel because it can lead to an accident.

FCC compliance information

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.

NOTICE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

■ Wireless system specifications

Model name	SC-E6100
Frequency band	2,402 - 2,480 MHz
Maximum high-frequency output	+4 dBm
Firmware version	4.0.0 or later

Booklet Structure

SHIMANO STEPS user's manuals are split among several booklets, as described below.

Be sure to read these user's manuals thoroughly before use, and follow them for correct use. Store the user's manuals so that they can be referenced at any time.

The latest user's manuals are available on our website (<https://si.shimano.com>).

- **SHIMANO STEPS user's manual (this document)**

This is the basic user's manual for SHIMANO STEPS. It contains the following content.

- SHIMANO STEPS quick guide
- How to operate assist bicycles that use flat handlebars, such as city, trekking, or MTB type bicycles
- Troubleshooting

- **SHIMANO STEPS user's manual for drop handlebar bicycles (separate booklet)**

This booklet describes how to operate assist bicycles that use a drop handlebar and are controlled using a dual control lever. This should be read along with the SHIMANO STEPS user's manual.

- **SHIMANO STEPS special battery and parts user's manual**

It contains the following content.

- How to charge and handle the SHIMANO STEPS special battery
- How to attach and remove the SHIMANO STEPS special battery to the bicycle
- How to use the satellite power button and satellite charging port
- How to read the battery LEDs when charging or during an error, and how to handle errors

- **SHIMANO STEPS cycle computer user's manual**

It contains details on the SHIMANO STEPS cycle computer. Refer to it for how to view the display and how to configure the settings.

- **Switch unit user's manual**

This is the assist switch and shifting switch user's manual. It describes switch unit operations.

Features of SHIMANO STEPS

- **Lightweight, compact design**
 - **Silent, smooth ride**
 - **High shifting performance system (In the case of electronic gear shifting)**
This system uses accurate sensors to enable shifting gears by providing the most appropriate level of power assistance carefully adjusted by computer controls.
 - **Full Automatic Shifting (In the case of electronic 8/5-speed gear shifting with internal geared hub)**
The sensors detect riding conditions, whether you are riding up a hill against the wind, or on flat ground with no wind; the automatic gear shifting system uses computer controls to make your ride more pleasant.
 - **Start mode (In the case of electronic gear shifting with internal geared hub)**
This function allows automatic shifting down to a preset gear when you stop the bicycle such as at traffic lights so that you can start traveling at a light gear.
* If, while the bicycle is stopped, you shift to a gear lower than the set gear, the system will not automatically shift up.
 - **Coaster brake compatible (DU-E6110)**
Smoothly provides sufficient control power.
 - **Light off road**
Sporty, provides powerful assistance. Can only be used when set by the manufacturer of the completed bicycle.
 - **Walk assistance function (Walk assist mode)**
* The Walk assist mode function may not available in certain regions.
- * Some of the functions listed above can only be used once the firmware has been updated. If this is the case, consult the place of purchase, and carry out the firmware updates.

Assist mode

You can select a SHIMANO STEPS assist mode for each particular application.

[HIGH]	[NORM] (Normal)	[ECO]
		
Steep uphill slopes.	Gentle slope or level ground.	Long distance riding on level ground.
When the battery level is running low, the level of assistance is lowered to increase the traveling range.		
[OFF]		
<ul style="list-style-type: none"> • When you don't need power assistance • When you are concerned about remaining battery power 		
[WALK] *1		
<ul style="list-style-type: none"> • When you walk while pushing the E-BIKE loaded with heavy baggage • When walking the E-BIKE out of an underground bicycle parking garage <p>* This mode may not be available in certain regions</p>		

*1 Depending on the region of use, you may not be able to select it due to the laws of the region.

Preparation

You cannot use the battery immediately after shipment.

The battery can be used after charging it with the designated charger.

Be sure to charge it before use. The battery can be used when the LED on it lights up.

Please read the SHIMANO STEPS special battery and parts user's manual for how to charge and handle the battery.

Quick guide

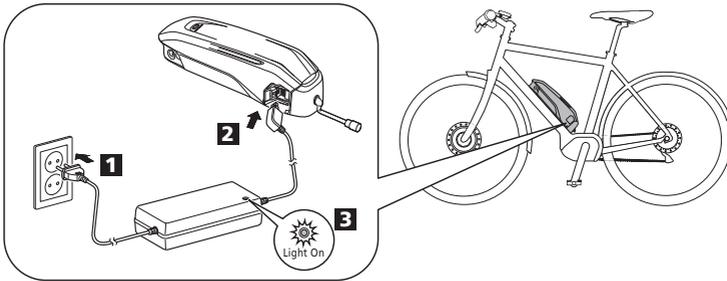
This section explains how to handle an assist bicycle that has had SHIMANO STEPS installed.



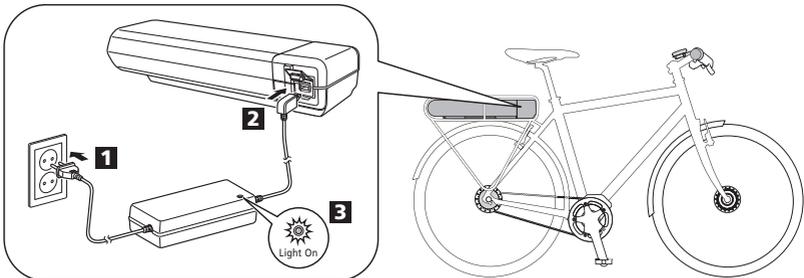
Depending on the assist bicycle used, the installed battery, cycle computer, and switch unit may differ from what is listed here. Please view the "SHIMANO STEPS special battery and parts user's manual" and the "SHIMANO STEPS cycle computer user's manual" as well.

1. Charge the battery.

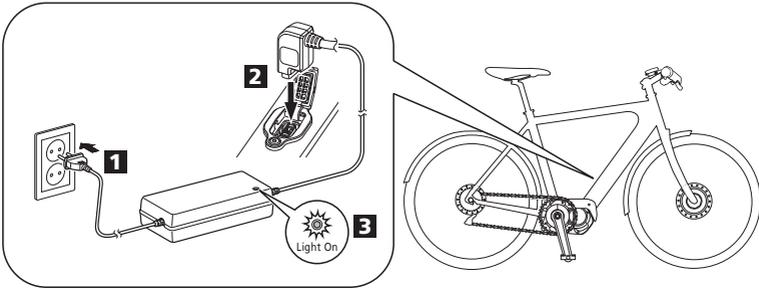
Example of external type battery



Example of rear carrier mount type battery



Example of integrated battery

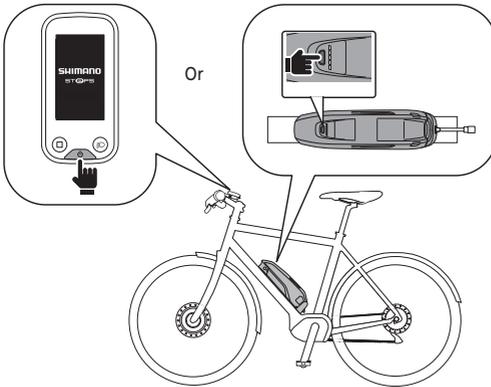


 Lights up	Charging
 Flashing	Charging error

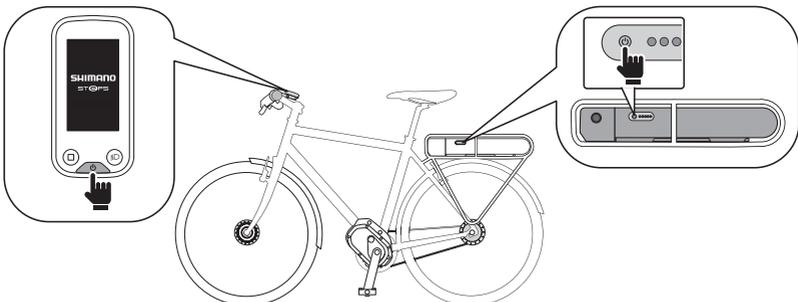
2. Turn on the power.

To turn off the power, repeat this procedure.

Example of external type battery

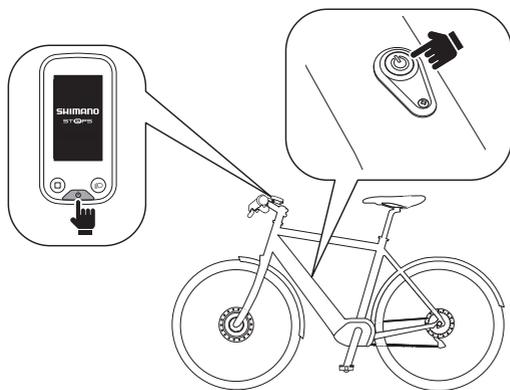


Example of rear carrier mount type battery



Example of integrated battery

* The location of the power button differs depending on the assist bicycle. For details, refer to the manual for the assist bicycle. The figure below shows an example with the SHIMANO satellite system ON/OFF switch.

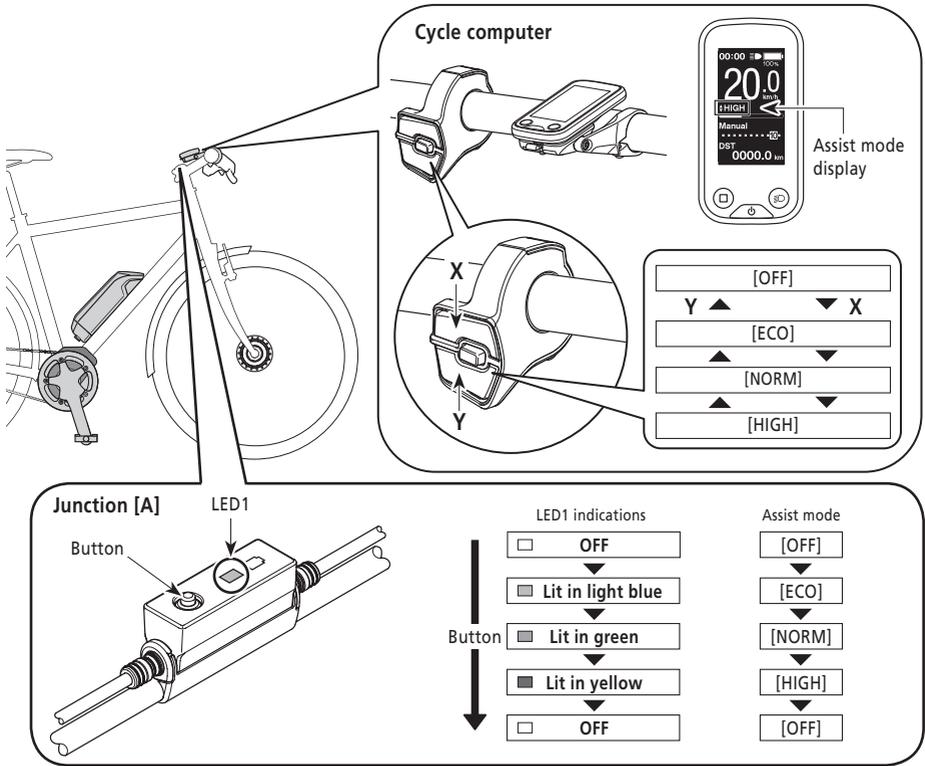


NOTICE

When turning the power ON/OFF, do not place your foot on the pedal.

3. Select assist mode.

* If you turn the power ON, assist mode is reset to [OFF] regardless of the assist mode that you had selected before you last turned the power OFF.



4. Get on the bicycle and start riding.

Assist will start when you start pedaling.

5. Turn the power OFF and park your bicycle when you arrive at your destination.

■ Making walking and pushing the bicycle easy (walk assist)

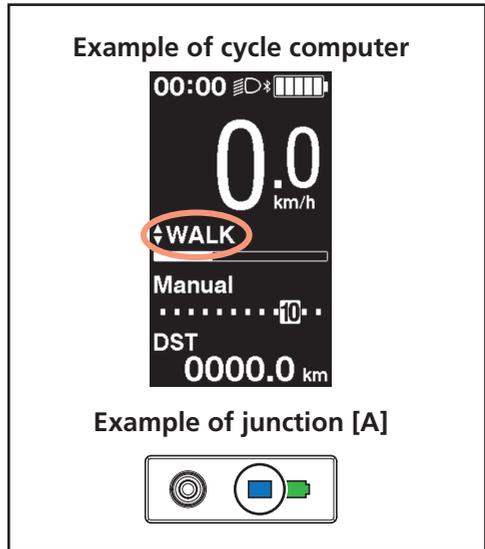
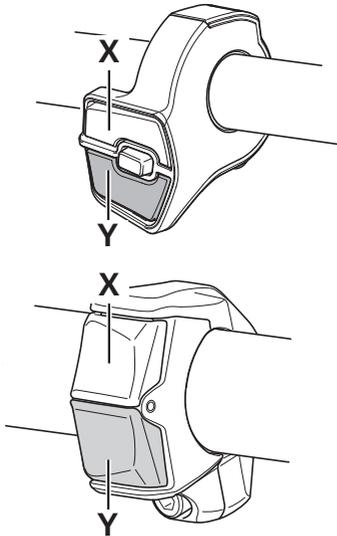
SHIMANO STEPS has a function where assist works even when you are walking and pushing the assist bicycle.

- Depending on the region of use, you may not be able to use it due to the laws of the region. In this case, the operations described here are disabled.
- This function cannot be used with bicycles that do not have assist switch installed.

1. Stop and switch to walk assist mode.

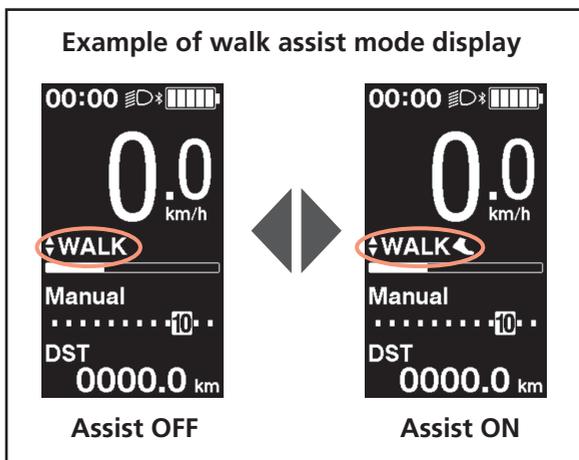
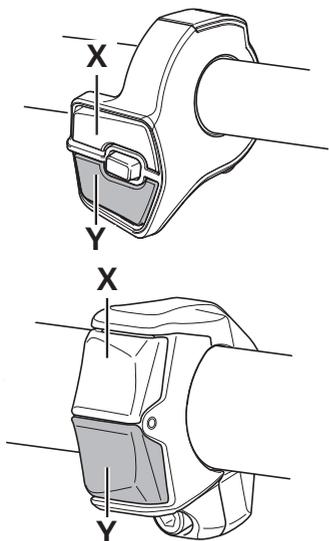
Hold down the button (Y button) on the lower side of the assist switch (left side of the handle) until it reaches the following state.

- Cycle computer: [WALK] is displayed
- Junction [A]: LED on the button side lights up in blue



- If nothing is done for one minute after switching to walk assist mode, it will switch back to the assist mode that was selected before switching.

2. Push the bicycle carefully while pressing the same button again.
If you let go of the Y button, the assist stops.



NOTICE

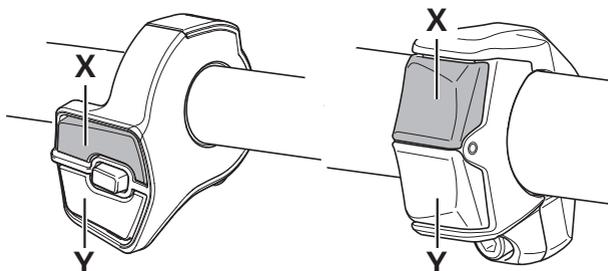
Walk assist operates at a maximum of 6 km/h. Be careful because the bicycle starts moving just by button operations.



- In case of electronic gear shifting, the assistance of walk assist and speed are controlled by the current gear position.

3. Exit walk assist mode.

Press the button (X button) on the upper side of the assist switch (left side of the handle).



■ Automatic and manual gear shifting

Depending on the assist bicycle used, you may be able to switch between automatic and manual gear shifting.

- Automatic gear shifting: Automatically shifts gears based on the riding conditions.
- Manual gear shifting: This refers to standard electronic gear shifting. Gears are shifted by operating the shifting switch.

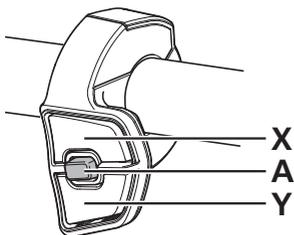
1. Switch between automatic and manual gear shifting.

The shifting switch (right side of the handle) is operated as follows, depending on the type.

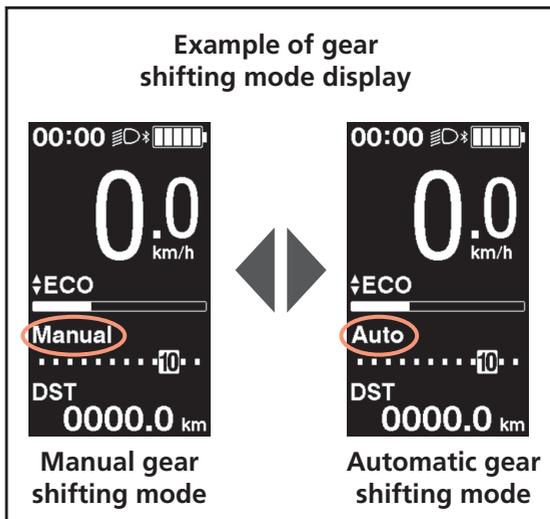
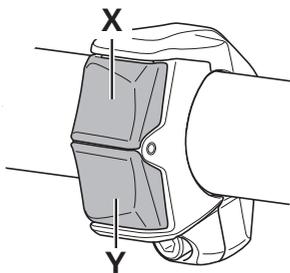
Shifting changes from automatic to manual gear shifting and back again with each operation.

- 3-switch type shifting switch: Press button-A
- 2-switch type shifting switch: Press button-X and button-Y together

3-switch type
shifting switch example

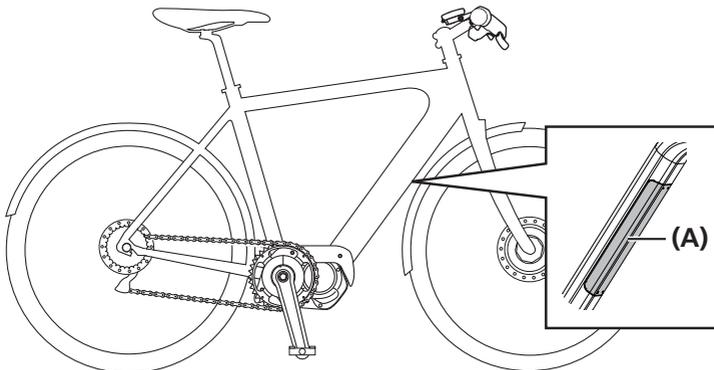
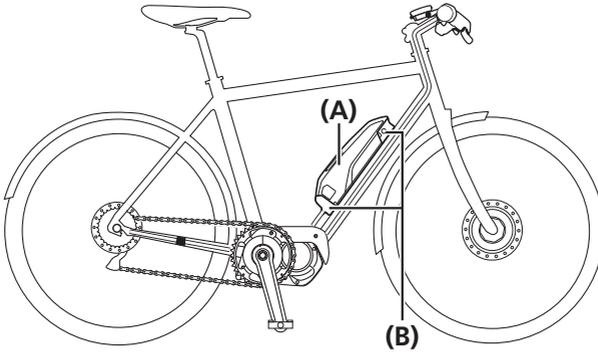
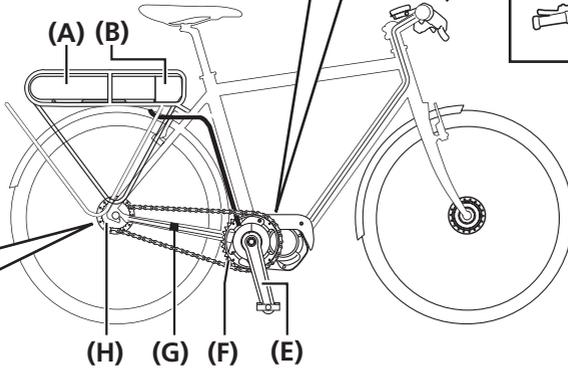
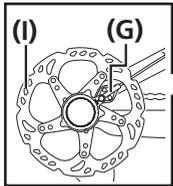
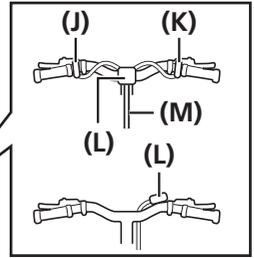
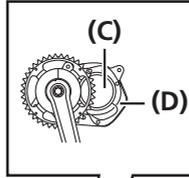
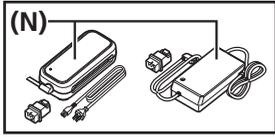


2-switch type
shifting switch example



- Depending on the cycle computer, [Auto] is displayed when in automatic gear shifting mode, and [Manual] is displayed when in manual gear shifting mode.

Names of parts



(A)	Battery *1	(B)	Battery mount *2
(C)	Drive unit	(D)	Drive unit cover
(E)	Crank arm	(F)	Chainring unit
(G)	Speed sensor *3	(H)	Shifting unit *4
(I)	Disc brake rotor	(J)	Switch unit (assist switch)
(K)	Switch unit (shifting switch) or shifting lever	(L)	Cycle computer or junction [A]
(M)	Electric wire	(N)	Battery charger

*1 Depending on the assist bicycle, the battery may be installed at a location different from the position specified in the figure.

*2 The battery mount of the built-in type battery is attached inside the frame.

*3 It is attached to one of the two locations specified in the figure.

*4 Electronic gear shifting: DI2 rear derailleur or motor unit + DI2 internal geared hub
 Mechanical gear shifting: rear derailleur or internal geared hub

Specifications

Operating temperature range: During discharge	-10 – 50°C	Battery type	Lithium ion battery
Operating temperature range: During charging	0 – 40°C	Nominal capacity	Please read the SHIMANO STEPS special battery and parts user's manual.
Storage temperature	-20 – 70°C	Rated voltage	36 V DC
Storage temperature (Battery)	-20 – 60°C	Drive unit type	Midship
Charging voltage	100 – 240 V AC	Motor type	Brush-less DC
Charging time	Please read the SHIMANO STEPS special battery and parts user's manual.	Rated drive unit power	250 W

* The maximum speed for which power assistance is provided is set by the manufacturer and is conditional on where the bicycle is to be used.

Troubleshooting

NOTICE

The following notifications will occur when a malfunction occurs with the assist bicycle.

- Beep sounds and error messages on the cycle computer
- Battery LED error indications

Perform the appropriate actions after viewing the "SHIMANO STEPS cycle computer user's manual" and the "SHIMANO STEPS special battery and parts user's manual".

■ Assist function

Symptom	Cause / Possibility	Remedy
Assistance is not being provided.	Is the battery sufficiently charged?	Check the battery level and if it is low, charge the battery.
	Are you riding on long slopes in summer weather or riding for a long time carrying a heavy load? The battery may be overheating.	Turn off the power, wait for a while and then check once more.
	The drive unit, cycle computer or assist switch may be connected incorrectly or there may be a problem with one or more of them.	Contact the place of purchase.
	Is the speed too high?	Check the Cycle Computer display. Assist will not occur if the speed is above the bicycle manufacturer's setting value.
	Are you pedaling?	The bicycle is not a motorbike, so you need to operate the pedals.
	Is the assist mode set to [OFF]?	Set assist mode to a mode other than [OFF]. If you still do not feel that assistance is being given, contact the place of purchase.
	Is the system power ON?	If you do not feel the assist after performing the following, contact the place of purchase. Press the power switch on the cycle computer or the battery power button to turn the power back ON.

Symptom	Cause / Possibility	Remedy
Assist traveling distance is too short.	The traveling distance may become shorter depending on road conditions, the gear position and total light usage time.	Check the battery charge. If the battery is nearly spent, recharge it.
	The battery characteristics will drop during winter weather.	This is not a sign of a problem.
	The battery is a consumable part. Repeated recharging and long periods of use will cause the battery to deteriorate (lose its performance).	If the distance that can be traveled on a single charge is very short, replace the battery with a new one.
	Is the battery fully charged?	If the distance that can be traveled when the battery is fully charged has decreased, the battery may have degraded. Replace the battery with a new one.
Pedaling is stiff.	Are the tires inflated to a sufficient pressure?	Inflate the tire with a bicycle pump.
	Is the assist mode set to [OFF]?	Set the assist mode to a mode other than [OFF]. If you still do not feel the assist, contact the place of purchase.
	The battery may be running low.	Check the assistance again after sufficiently charging the battery. If you still do not feel the assist, contact the place of purchase.

■ Lights

Symptom	Cause / Possibility	Remedy
The front light or the tail light does not illuminate even when the switch is pressed.	The E-TUBE PROJECT settings may be wrong.	Contact the place of purchase.

■ Other

Symptom	Cause / Possibility	Remedy
When using an electronic gear shifting, I feel that the level of assistance weakens when the gears shift.	This occurs because the level of assistance is being adjusted to the optimum level by computer.	It is not a sign of a malfunction.
Sound occurs after gear shifting.		Contact the place of purchase.
A noise can be heard from the rear wheel during normal riding.	Gear shifting adjustment may not have been carried out correctly.	Contact the place of purchase.

Appendix

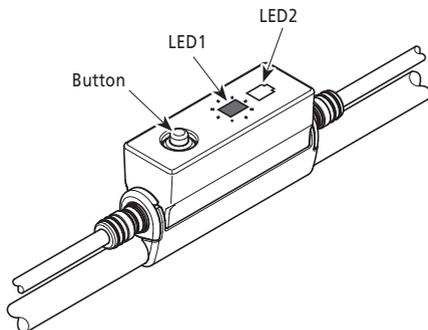
■ Junction [A] (EW-EN100)

EW-EN100 is used instead of cycle computer.

It is attached to the brake outer casing or brake hose and located near the handle bar.

- It is not recommended to operate the button on EW-EN100 while riding. Please select your preferred assist mode before riding.

Name of parts



Junction [A]

Button	<ul style="list-style-type: none">• Press: change the assist mode each time you press it.• Press and hold (about 2 seconds): turn the light ON/OFF• Press and hold (about 8 seconds): change to RD protection reset mode
LED1	Indicates current assist mode.
LED2	Indicates current battery level.

LED1 indications

Status	Indications
OFF	Assist mode: [OFF]
Lit in light blue	Assist mode: [ECO]
Lit in green	Assist mode: [NORM]
Lit in yellow	Assist mode: [HIGH]
Lit in blue	Assist mode: [WALK]
Blinks green	When the light turned on

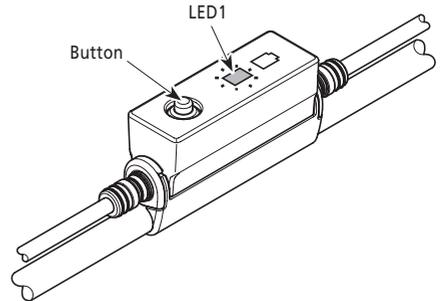
LED2 indications

Status	Indications
OFF	When the power turned OFF
Lit in green	Battery level: 100 – 21%
Lit in red	Battery level: 20% or less
Blinks red	Battery level: nearly empty

Turning the light ON / OFF

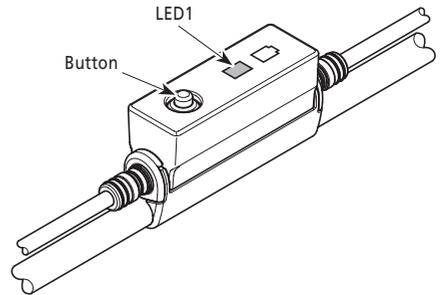
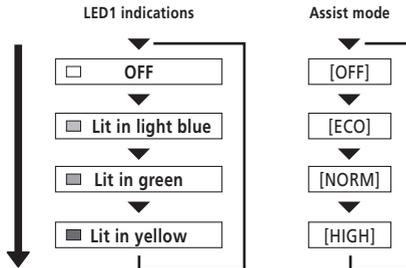
You cannot turn the light off while riding the bicycle.

1. Press and hold (about 2 seconds) the button until the lights turn ON/OFF.
The LED1 blinks green.



Changing the assist mode

1. Press button.
Assist mode is changed each time you press it.
The LED1 indicates current assist mode.



Wireless connection

This product has a wireless communication function.

2.4 GHz frequency digital wireless technology is the same thing as a wireless LAN. In rare instances, strong electromagnetic waves or electromagnetic interference due to the following locations or devices may impact communication.

- TVs, PCs, radios, motors/engines, or inside vehicles or trains
- Near railroad crossings and tracks, television transmitter stations, and radar stations
- Other wireless computers or digital control lights

ANT connection

The information displayed by the LED can be sent to an external device that supports ANT connections.

When the main power is turned ON for SHIMANO STEPS, communication can be received at any time. Refer to the manual of the external device, switch the external device to connection mode, and then connect it.

Bluetooth® LE connection

The information displayed by the LED can be sent to an external device that Bluetooth® LE connections.

E-TUBE PROJECT for smartphones/tablets may be used if a Bluetooth® LE connection is established with a smartphone/tablet. E-TUBE RIDE can be used to check traveling data on a smartphone connected over Bluetooth® LE.

Communication can only be received under the following conditions. Refer to the manual of the external device, switch the external device to connection mode, and then connect it.

- Within 30 seconds of the main power for SHIMANO STEPS turning ON
- Within 30 seconds of operating any button/switch other than the SHIMANO STEPS power switch

Wireless system specifications

Model name	EW-EN100
Frequency band	2,402 - 2,480 MHz
Maximum high-frequency output	+4 dBm
Firmware version	4.0.0 or later

E-TUBE PROJECT

E-TUBE PROJECT is needed to change the setting of the SHIMANO STEPS and to update firmware.

Download E-TUBE PROJECT from our support website (<https://e-tubeproject.shimano.com>).

For information on how to install E-TUBE PROJECT, check the support website.

NOTICE

Do not connect to a device while the battery is being charged.



- Firmware is subject to change without notice.

Items configurable in E-TUBE PROJECT

The items that can be set differ according to the assist bicycle. Refer to the help manual for E-TUBE PROJECT for details.

- The functions assigned to each operation switch can be changed.
- The settings that can be configured from this product can also be configured from E-TUBE PROJECT.

Recovering from the RD protection function

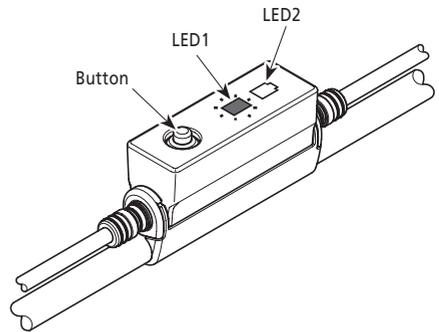
In order to protect the system from falls etc., the RD Protection function will operate when the rear derailleur is subjected to a strong impact. The connection between the motor and the link will be momentarily severed so that the rear derailleur can no longer operate.

When RD Protection Reset is run, it will restore the connection between the motor and the link, and recover the rear derailleur from RD Protection.



- This function is enabled for electronic gear shifting rear derailleur models only.

- 1.** Hold the button down (for roughly eight seconds) until LED1 flashes red.
Once LED1 is flashing, release the button. When only LED1 is flashing red, the system is in the RD protection reset mode.
- 2.** Rotate the crankarm.
Connection of motor and the link is restored.



Gear shifting adjustment with the electronic gear shifting unit

If gear shifting feels abnormal, contact the place of purchase.

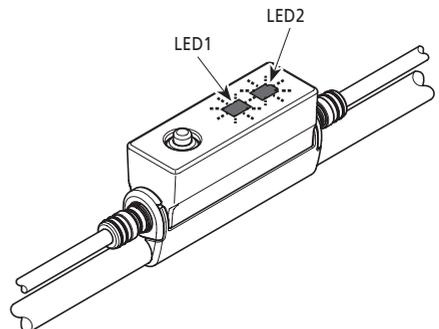
Error indications

When an error occurs, the two LEDs on EW-EN100 will quickly flash red at the same time.

If this occurs, follow one of the procedures below to reset the indication.

- Press the battery power switch to turn the power OFF.
- Remove the battery from the mount.

If the situation does not improve even after turning the power back ON, contact your place of purchase or the distributor.



*** Key number**

The number that is attached to the key is needed in case you need to purchase spare keys.
Make a note of the number in the following box and keep it in a safe place.

Key number

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

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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

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

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