

# User Manual

## Gazelle with Shimano Steps E6100 and E5000-System



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**Warning** about potential injury, increased fall or other injury risk.



**Reference to potential damage to property or the environment.**



**Important supplementary information** or special information about the use of the bike.

# Congratulations on your Gazelle!

Congratulations on your Gazelle with the innovative Shimano Steps system. This bike provides you with assistance on the move by means of an innovative electric drive system. This will make your cycling a great deal more enjoyable when riding into headwinds and carrying your belongings. You can choose how much of a boost you would like. This manual will help you discover all the advantageous features of your bike and use them correctly as you wish.

**We strongly advise you to read through this manual attentively. This manual constitutes a supplement to the general user manual.**

This manual is written in general terms. This means that certain articles will apply to your bike while others will not.

You can download the general user manual from the [www.gazellebikes.co.uk/service-and-warranty/manuals/](http://www.gazellebikes.co.uk/service-and-warranty/manuals/) website.

# Safety

## General



Take care when children are around, especially if they are able to insert objects through apertures in the motor housing. There is a risk of a life-threatening electric shock.

If you think the bike is no longer safe to use, you must take it out of use at once, secure it against unintentional switching on or use, as the case may be, and make it available to the dealer for inspection. It is no longer safe to use if current-carrying components or the battery show visible signs of damage.

The walk assist function must only be used when wheeling the bike on foot. There is a risk of injury if the wheels on an e-bike are not in contact with the ground when using walk assist.



**Do not make any changes to your electric system or fit any other products to it aimed at increasing the power output from your electric system. As a rule you will shorten the service life of the system and risk damaging the Drive Unit (motor) and the e-bike. In addition there also the danger that you will void the warranty cover on the e-bike you have bought.**

Furthermore, as a result of inexpert work on the system you will jeopardise your safety and that of other road users which risks accidents caused by manipulations, high personal liability costs and potentially even the danger of criminal prosecution.

## Legal requirements



Like all cycles, the bike must comply with the requirements of the national highway code.

The legal requirements set out below are applicable to the bike:

- The motor may only be used to assist pedalling, i.e. it must only “help” when the bike user applies effort to the pedals him or herself.
- The average motor power must not exceed 250 W.
- As speed increases motor power must continue to drop progressively.
- The motor must stop at (approximately) 25 km/h.

See also the EC Declaration of Conformity included with your bike.

### Significance for the user



There is no obligation to wear a helmet. However, for your own safety we advise you not to cycle without a helmet.

A separate driving licence is not required for an electric bike. Insurance is not obligatory for an e-bike.

There is no age restriction on using an e-bike.

Cycling on cycle tracks is regulated in the same way as for conventional bikes.

These regulations apply to your bike when using it within the European Union. Other provisions may apply in countries outside the EU and in isolated cases in Europe as well. Before using your bike abroad be sure to make enquiries about which laws apply.

## Safety and warranty

 Read the Gazelle Safety and Warranty manual for all safety instructions and warranty conditions. You will be supplied with this manual included as standard with your bike and you can also access it digitally on our website ([www.gazellebikes.co.uk/service-and-warranty/manuals/](http://www.gazellebikes.co.uk/service-and-warranty/manuals/)).

## Waste disposal

The motor, display including control unit, battery, speed sensor, accessories and packaging must be recycled in an environmentally sound manner. Do not dispose of an e-bike or its components with household waste!

**For EU countries only:** Under European Directive 2012/19/EU electrical equipment which is no longer usable and under European Directive 2006/66/EC defective or spent accumulators and batteries must be collected separately and recycled in an environmentally sound manner.

The battery incorporated in the control computer may only be removed if it is needed to be disposed of. Opening the housing may irreparably damage the display.

Hand in batteries and displays which are no longer usable to an accredited cycle shop.

## Battery

 Remove the battery from the bike before working on the e-bike (e.g. assembly, maintenance, servicing the chain, etc.), transporting it by car or by air or storing it. There is a risk of injury in the event of accidentally activating the electric system.

- **Do not open** the battery. This risks a short circuit. Opening the battery renders any warranty claim null and void.
- **Protect the battery** against heat (e.g. against sustained exposure to strong sun-

light as well), fire and immersion in liquids. There is a risk of explosion.

- **Avoid touching the** battery with paper clips, coins, keys, nails, screws or any other small metal objects which could cause the contacts to short out. Short circuits between battery contacts can result in burns or fire. Damage arising in this way due to a short circuit will render any warranty claim null and void.

- **Improper use may** cause fluid to leak out of the battery. Avoid contact with it.

In the event of inadvertent contact wash off with water. If the fluid comes into contact with the eyes, you must seek medical assistance as well. Battery fluid which has leaked out may cause skin irritation and burns.

- **Fumes may be** released in the event of damage and/or improper use of the battery. Provide fresh air and seek medical help in the event of any complaints. These fumes may irritate the respiratory tract.

- **Use only genuine** Shimano Steps chargers to charge the battery. A fire risk cannot be ruled out if a charger is used which is not a genuine Shimano Steps unit.

- **Use the battery** only in combination with an e-bike with a genuine Shimano Steps motor. This is the only way to protect the battery against hazardous overloading.

- **Use only genuine** Shimano Steps batteries which have been approved by the manufacturer of your e-bike. Use of other batteries may result in injury and/or fire. • If other batteries are used no liability will be accepted by Shimano Steps and no warranty cover provided.

- **Keep the battery** out of children's reach.

 **Take care not to drop the battery when removing it from the bike. This can actually damage the battery housing irreparably.**

- **Batteries must not** be exposed to mechanical impact. This risks damaging the battery.
- **The bike operates** at low voltage (36 V). You must never attempt to use the bike with a power source other than the original battery that goes with it. You will find descriptions of approved batteries further on in this manual.

## Charger



Protect the charger from rain and moisture. In the event of water ingress into a charger there is a risk of electric shock.

- **Charge Shimano Steps** Lithium Ion batteries approved for e-bikes only. The battery voltage must match the voltage on the charger. Otherwise there is a fire and/or explosion risk.
- **Keep the charger** clean. Contamination may give rise to an electric shock hazard.
- **Check the charger**, cable and plug each time before they are used. Do not use the charger if you have noticed any damage. Do not open the charger yourself and have it repaired only by qualified technicians and only with genuine spare parts. Damaged chargers, cables and plugs increase the risk of an electric shock.
- **Do not use** the charger on a readily flammable surface (such as paper or fabric) or in a flammable environment. There is a fire risk to the heat generated in the charger during charging. Fumes may be released in the event of damage and/or improper use of the battery. Provide fresh air and seek medical help in the event of any complaints. These fumes may irritate the respiratory tract.
- **Keep children under** supervision. This will ensure that children do not play with the charger.

- **Children and persons** who, based on their physical, sensory or mental capabilities, their lack of experience and knowledge are not capable of using the charger safely, must not use this charger without supervision or instruction by a responsible person. Otherwise there is a risk of improper operation and/or physical injury.
- **On the underside** of the charger there is a brief outline of important safety instructions in English, French and Spanish, that reads as follows:
  - Observe the user manual in order to use the unit safely. Risk of electric shock.
  - Use only in a dry environment.
  - Charge Shimano Steps electric system batteries only. Other batteries may explode and cause injury.
  - Do not replace the mains lead. There is a fire and/or explosion risk.

## Motor



- Do not open the motor yourself. The motor is maintenance-free and must only be repaired by your Gazelle specialist and with genuine spare parts. This will guarantee that motor safety is maintained. Unauthorised opening of the motor will render any warranty claims null and void.
- **All components fitted** to the motor and other e-bike components (e.g. chain ring, chain ring pick-up, pedals) must only be replaced by components of identical construction or by components specially approved by the cycle manufacturer for your e-bike. This will protect the motor against overloading and damage.
- **Remove the battery** from the bike before working on the e-bike (e.g. assembly, maintenance, servicing the chain, etc.), transporting it by car or by air or storing it. There is a risk on injury in the event of accidentally activating the electric system.

- **The walk assist** function must only be used when wheeling the bike on foot. There is a risk of injury if the wheels on an e-bike are not in contact with the ground when using walk assist.

Use only genuine Shimano Steps batteries which have been approved by the manufacturer of your e-bike. Use of other batteries may result in injury and/or fire.

If other batteries are used no liability will be accepted by Shimano Steps and no warranty cover provided.

- **Do not make** any changes to your electric system or fit any other products to it aimed at increasing the power output from your e-bike. As a rule you will shorten the service life of the system and risk damaging the Drive Unit (motor) and the e-bike. In addition there also the danger that you will void the warranty cover on the e-bike you have bought. Furthermore, as a result of inexpert work on the system you will jeopardise your safety and that of other road users which risks accidents caused by manipulations, high personal liability costs and potentially even the danger of criminal prosecution.



The motor is intended exclusively for your e-bike drive and must not be used for any other purpose.

## Maintenance and repair



When carrying out settings, maintenance or cleaning jobs be aware that cables must not be pinched and/or kinked nor must they be damaged by sharp edges. Have all fitting and setting jobs carried out by your Gazelle specialist.



Observe operating and storage temperatures for e-bike components see further on in this manual. Protect the motor, display and battery against extreme

temperatures (e.g. under intense sunlight without adequate ventilation). These components (especially the battery) can be damaged by extreme temperatures.

## Transporting the bike

### Transporting the bike by car

If you intend to transport your bike using a cycle carrier, you will also need to ensure that the carrier is suitable for the added weight of the bike as well. You need to remove the battery when transporting an e-bike on a cycle carrier. Make sure that the bicycle does not obscure the car's compulsory lights.

### Transporting the bike by train

You can take your bike in trains displaying a bike sign.

If you have any questions you can contact the transporter.

### Transporting the bike by air



Your bike will generally be subject to the cycle provisions of the airline concerned. Batteries are covered by the law on hazardous goods transport. There are specific packaging and marking requirements to be observed for transport by commercial users or transport by third parties (e.g. air freight or a haulage company). For advice on this please contact a hazardous goods expert.

## Warranty and service life

A two-year warranty applies to the battery. Should a fault occur during this period, your Gazelle specialist will replace the battery. Normal ageing as well as wear and tear of the battery do not constitute a material deficiency.

Take care to ensure that the battery does not get too hot. Battery ageing increases sharply with temperatures above 40 °C. Being placed directly in the sun's rays can cause a battery to heat up considerably. Take care to ensure you do not leave the battery in a hot car and park your bike in the shade during bike rides. If you cannot avoid the heat, make sure you do not charge the battery at the same time.

A fully charged battery ages at an even higher rate at high temperatures than a partially charged one.

If you ride constantly using maximum motor power, your motor will always need a higher current. Higher currents cause the battery to age faster.

You can also increase the service life of your battery by using the assistance judiciously. Cycle using a low assistance setting. Lower discharge current draws will save your battery.

 Charge the battery to around 60% (3 to 4 charge indication LEDs lit), before storing it for a long time. Check charge status after 6 months. If just one charge indication LED is still lit you will need to recharge the battery again to around 60%.

 **If the battery is stored fully discharged for a long time, it may be damaged despite the low self-discharge rate and charge capacity may be substantially reduced.**

It is inadvisable to leave the battery connected to the charger for long periods.

The Shimano Steps mid-mounted motor is a durable and maintenance-free drive unit. It is nevertheless a wearing component which is covered by a two-year warranty. As a result

of the added performance, the wearing components such as the drive unit and brakes are subjected to higher loads than on a conventional bike. Components wear faster due to the effect of increased power.

# Bike configuration

With carrier battery





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.
- Use the product according to local laws and regulations.
- The Bluetooth® word mark and logos are registered trademarks owned by 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.

Be sure to observe the following in order to avoid burns or other injury from fluid leakages, overheating, fire or explosions.

## To ensure safety



### 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. 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

### To ensure safe riding

- Do not give too much of your attention to the cycle computer display while riding, otherwise accidents may result.
- 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 serious injury may result.
- 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.
- Check that the bicycle lights illuminate before riding at night.

### Using the product safely

- Be sure to remove the battery and charging cable before wiring or attaching parts to the bicycle. Otherwise, an electric shock may result.
- 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.
- When installing this product, be sure to follow the instructions given in the user's manual. Furthermore, it is recommended that you use only genuine Shimano parts at these times. If bolts and nuts are left loosened or the product is damaged, the bicycle may suddenly fall over and serious injury may result.
- Do not disassemble the product. Disassembling it may cause injury to persons.
- After reading the user's manual carefully, keep it in a safe place for later reference.

### 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.
- If the charging of the battery continues exceeds 2 hours after the prescribed charging time, immediately unplug the battery from the outlet to stop charging, and contact the place of purchase. Failure to do so may cause overheating, bursting, or ignition 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:  $-10^{\circ}\text{C}$  -  $50^{\circ}\text{C}$
  2. During charging:  $0^{\circ}\text{C}$  -  $40^{\circ}\text{C}$

### Cleaning

- The frequency of maintenance will vary depending on the riding conditions. Periodically clean the chain using an appropriate chain cleaner. 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.



## To ensure safe riding

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

## Using the product safely

- 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.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- 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.
- Store the battery in a safe place out of the reach of infants and pets.

## Cleaning

- If any malfunctions or other problems occur, contact the place of purchase.
- Never attempt to modify the system yourself, as it may cause problems with system operation.

## Note

## Using the product safely

- Be sure to install caps to any connectors which are not being used.
- For installation and adjustment of the product, consult a dealer.
- The Product is designed to be fully waterproof to withstand wet weather riding conditions. However, do not deliberately place them into water.
- Do not clean the bicycle in a high-pressure wash. If water gets into any of the components, operating problems or rusting may result.

- Do not turn the bicycle upside down. The cycle computer or the shifting switch may get damaged.
- 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 buildup of water or dirt in the connector where the battery will be connected.
- The use of a genuine Shimano battery is recommended. If using a battery from another manufacturer, make sure to carefully read the instruction manual for the battery before use.

## 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 PCs

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
- E-TUBE PROJECT: PC application
- Firmware: software inside each component

## Connection and communication with smartphones and tablets

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

## Cleaning

- The number found on the battery mount key is necessary when purchasing spare keys. Keep it in a safe place. There is a space to enter the key number on the back cover of this user's manual. Enter the key number for safekeeping and later reference.
- 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 the PC" 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.

### 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.

NOTE: 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.

## 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)**  
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)**  
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.		
<b>[OFF]</b>		
<ul style="list-style-type: none"> <li>• When you don't need power assistance</li> <li>• When you are concerned about remaining battery power</li> </ul>		
<b>[WALK]</b>		
<ul style="list-style-type: none"> <li>• When you walk while pushing the E-BIKE loaded with heavy baggage</li> <li>• When walking the E-BIKE out of an underground bicycle parking garage</li> </ul>		
* This mode may not be available in certain regions		

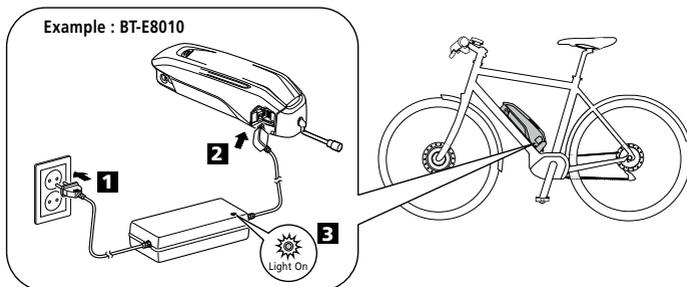
# Start your STEPS

## 1. Charge the battery.

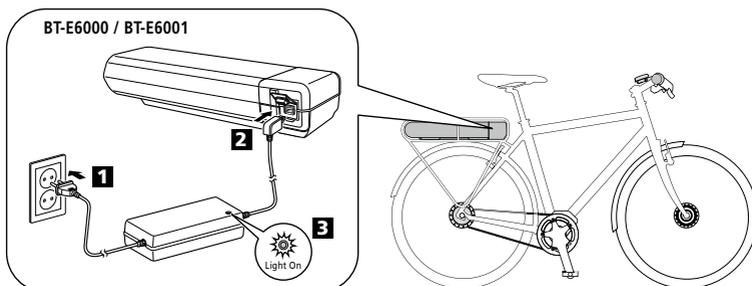
It is possible to charge the battery even while it is mounted on the bicycle.

For details, see "Charging the battery while installed on the bicycle."

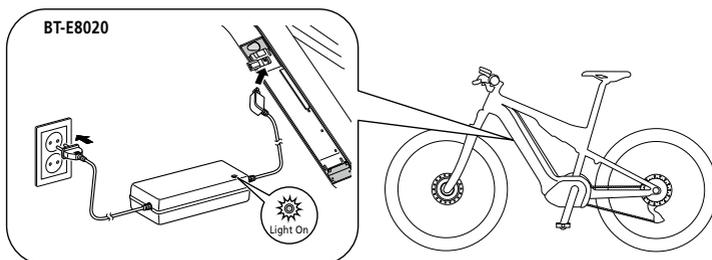
### <Down-tube mount type battery>



### <Rear carrier mount type battery>



### <Integrated battery>

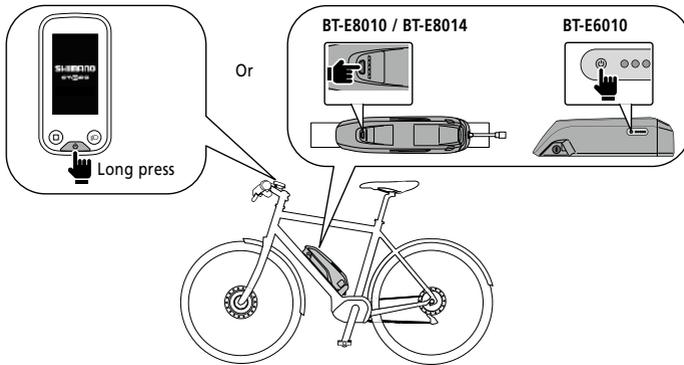


○ Lights up	Charging (Within 1 hour after the completion of charging)
☀ Flashing	Charging error

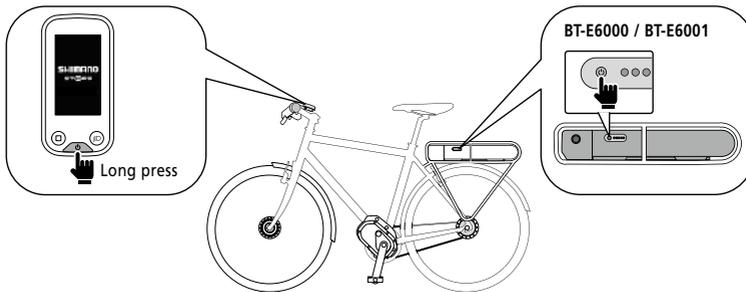
## 2. Turn on the power.

To turn off the power, repeat this procedure.

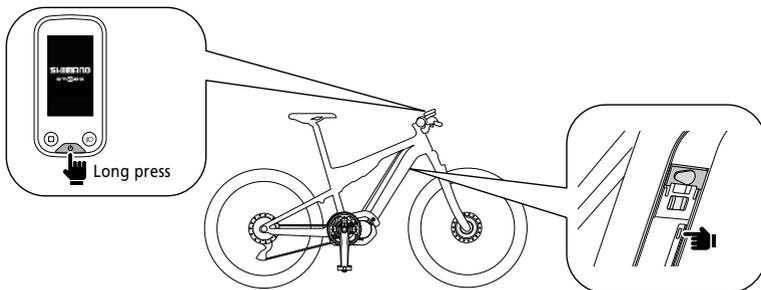
### <Down-tube mount type battery>



### <Rear carrier mount type battery>



### <Integrated battery>



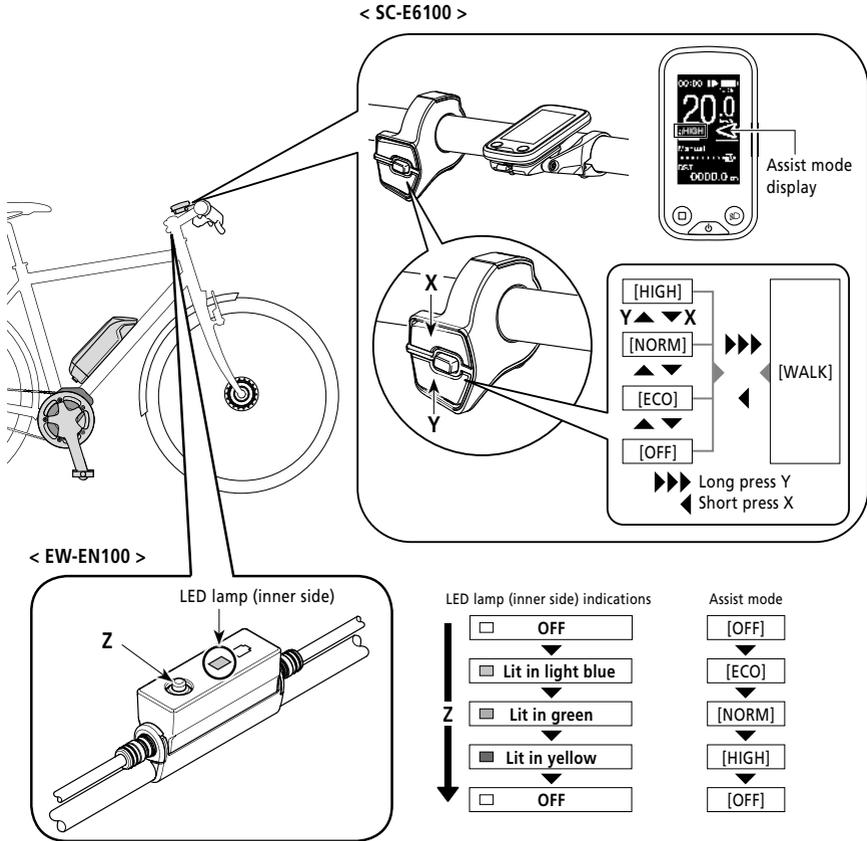
### NOTE

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

**3. Select your preferred assist mode.**

The bicycle is equipped with either SC-E6100 or EW-EN100.

\* When the power is turned on, assist mode is set to [OFF].



\* To change to the [WALK] assist mode, it is necessary to use the above assist switch.

**4. Ride the bicycle.**

Assist will start when you start pedaling.

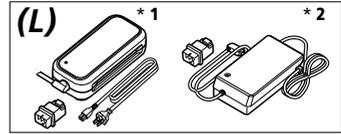
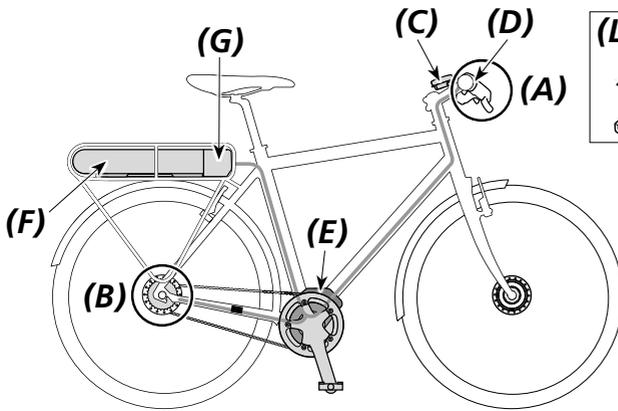
**CAUTION**

SHIMANO STEPS supports various brake systems. Before riding, please check the brake system of your bicycle and how to operate it beforehand.

**5. Turn off the power.**



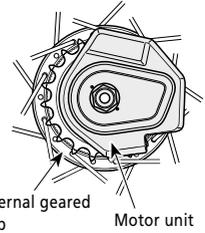
# Names of parts



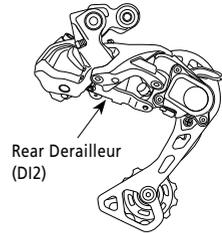
< For electronic gear shifting >

**(A)** Shifting switch • SW-E6010

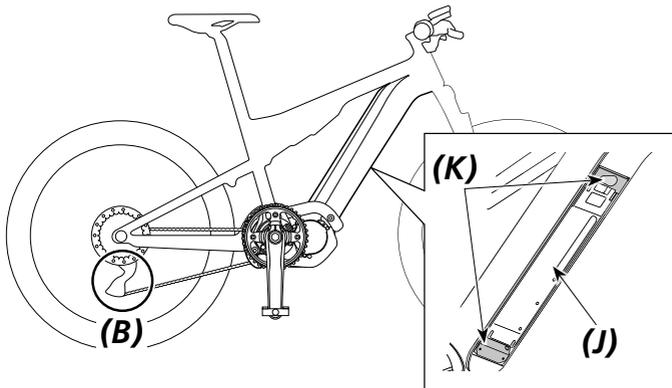
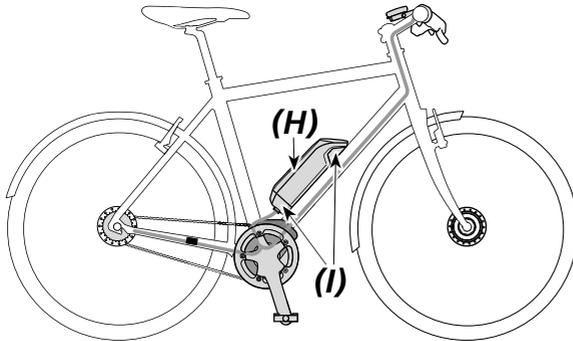
**(B)** Motor unit + Internal geared hub  
Rear Derailleur (D12)



Internal geared hub      Motor unit



Rear Derailleur (D12)



<b>(C)</b>	Cycle computer / Junction [A]	<ul style="list-style-type: none"> <li>• SC-E6100</li> <li>• EW-EN100</li> </ul>	<b>(H)</b>	Battery (down-tube mount type)	<ul style="list-style-type: none"> <li>• BT-E6010</li> <li>• BT-E8010<sup>*3</sup></li> <li>• BT-E8014</li> </ul>
<b>(D)</b>	Assist switch	<ul style="list-style-type: none"> <li>• SW-E6010</li> </ul>	<b>(I)</b>	Battery mount (down-tube mount type)	<ul style="list-style-type: none"> <li>• BM-E6010</li> <li>• BM-E8010</li> </ul>
<b>(E)</b>	Drive unit	<ul style="list-style-type: none"> <li>• DU-E6100</li> <li>• DU-E6110</li> </ul>	<b>(J)</b>	Battery (Integrated type)	<ul style="list-style-type: none"> <li>• BT-E8020</li> </ul>
<b>(F)</b>	Battery (rear carrier mount type)	<ul style="list-style-type: none"> <li>• BT-E6000</li> <li>• BT-E6001<sup>*3</sup></li> </ul>	<b>(K)</b>	Battery mount (Integrated type)	<ul style="list-style-type: none"> <li>• BM-E8020</li> </ul>
<b>(G)</b>	Battery mount (rear carrier mount type)	<ul style="list-style-type: none"> <li>• BM-E6000</li> </ul>	<b>(L)</b>	Battery charger * 1: EC-E6002 + SM-BCC1 * 2: EC-E6000	

\*3 If the firmware version of the drive unit is 3.2.6 or lower, the battery may not operate properly. Update the firmware version via E-TUBE PROJECT.

## Specifications

Operating temperature range: During discharge	-10 – 50°C	Battery type	Lithium ion battery
Operating temperature range: During charging	0 – 40°C	Nominal capacity	Refer to the user's manual for the battery. For the latest information on manuals, see the website ( <a href="http://si.shimano.com">http://si.shimano.com</a> ).
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	Refer to the user's manual for the battery. For the latest information on manuals, see the website ( <a href="http://si.shimano.com">http://si.shimano.com</a> ).	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.

## 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.

The use of a genuine SHIMANO battery is recommended. If using a battery from another manufacturer, make sure to carefully read the instruction manual for the battery before use.

### ■ Charging the battery

Charging time varies depending on the remaining capacity of the battery and the charger used. For the designated charging time, refer to the charger user manual.

#### DANGER

- Use the battery and charger combination specified by the company for charging and follow the charging conditions specified by the company. Not doing so may cause overheating, bursting, or ignition of the battery.

#### CAUTION

- When charging the battery while it is mounted on the bicycle, be careful not to trip over the charger cord or get anything caught on it. This may lead to injury or cause the bicycle to fall over, damaging the components.

#### NOTE

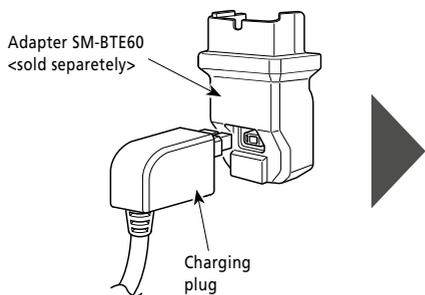
- When removing the battery charger power plug from the outlet or the charging plug from the battery, do not pull it out by the cord, or it causes breakage.
- If the bicycle is stored for an extended period of time immediately after purchase, you will need to charge the battery before using the bicycle. Once the battery is charged, it starts to deteriorate.
- Connect to E-TUBE PROJECT and click [Connection check] to confirm whether the battery in use is a genuine SHIMANO battery or another brand.
- Charge the batteries on a flat surface indoors.

## Charging the battery that removed from the bicycle

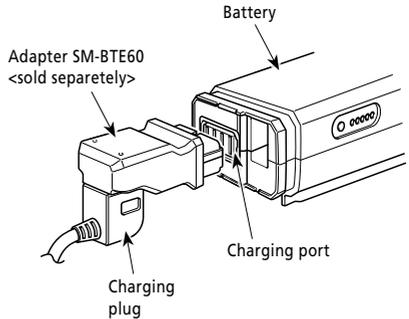
### BT-E6000/BT-E6001/BT-E6010

Adapter (SM-BTE60) is necessary to charge BT-E6000/BT-E6001/BT-E6010 when removed from the bicycle.

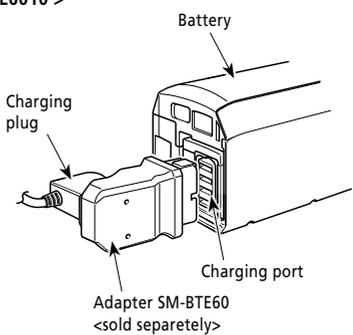
1. Attach the adapter to the charging plug.
2. Connect the charger's power plug to the outlet.
3. Connect the adapter to the battery's charging port.



### < BT-E6000/BT-E6001 >



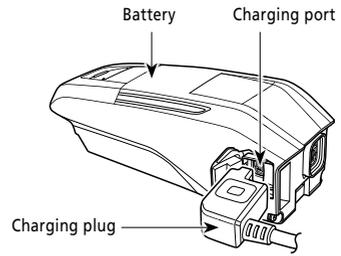
### < BT-E6010 >



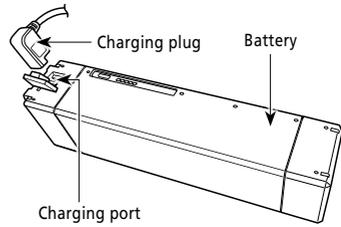
**BT-E8010/BT-E8014/BT-E8020**

- 1.** Connect the battery charger's power plug to the outlet.
- 2.** Connect the charging plug into the battery's charging port.

**< BT-E8010/BT-E8014 >**



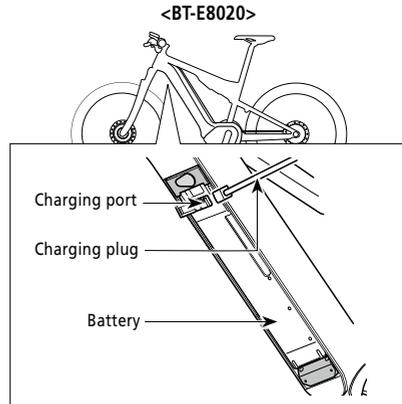
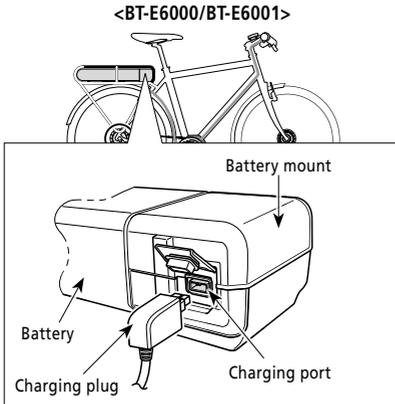
**< BT-E8020 >**



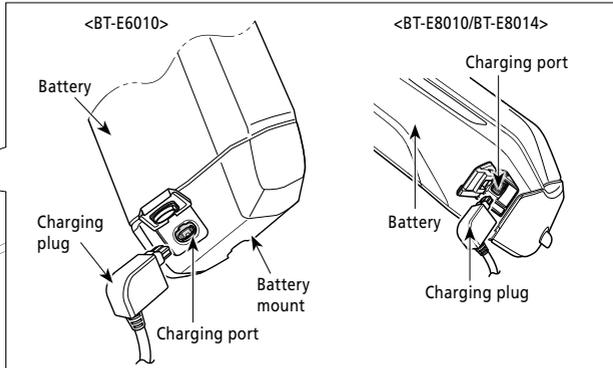
## Charging the battery while installed on the bicycle

- Place the battery charger on a stable surface such as the floor before charging.
- Stabilize the bicycle to ensure that it does not collapse during charging.

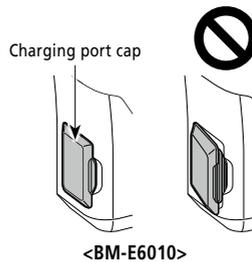
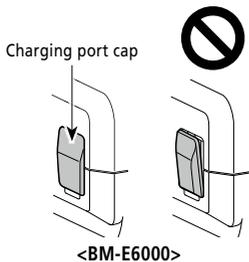
1. Connect the battery charger power plug to the outlet.
2. Connect the charging plug to the charging port on the battery mount or the battery.



<BT-E6010/BT-E8010/BT-E8014>



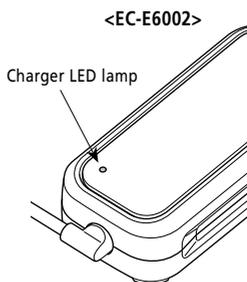
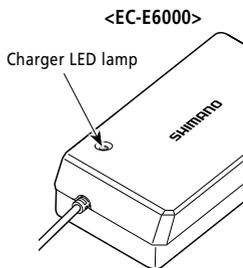
3. After charging, close the charging port cap securely.



## ■ Charger LED lamp

After charging has started, the LED lamp on the charger will light up.

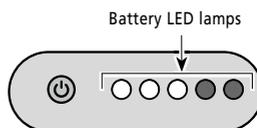
○ <b>Lit up</b>	Charging
⦿ <b>Blinking</b>	Charging error
● <b>Turned off</b>	Battery disconnected



## ■ Battery LED lamp

Use this to check the current charging status.

The shape of the battery LED lamp varies depending on the model number.



## Charging-in-progress indication

While battery is charging, the LED lamps on the battery light up.

LED lamp indication*1	Battery level
⦿ ● ● ● ●	0% - 20%
○ ⦿ ● ● ●	21% - 40%
○ ○ ⦿ ● ●	41% - 60%
○ ○ ○ ⦿ ●	61% - 80%
○ ○ ○ ○ ⦿	81% - 99%
○ ○ ○ ○ ○	100%

\*1 ● : Not lit ○ : Lit up ⦿ : Blinking

## Battery level indication

The current battery level can be checked by pressing the battery's power button.

LED lamp indication*1	Battery level
○ ○ ○ ○ ○	100% - 81%
○ ○ ○ ● ●	80% - 61%
○ ○ ● ● ●	60% - 41%
○ ● ● ● ●	40% - 21%
○ ● ● ● ●	20% - 1%
☀ ● ● ● ●	0% (When battery is not installed on bicycle)
● ● ● ● ●	0% (When battery is installed on bicycle) Power off / Shutdown

\*1 ● : Not lit ○ : Lit up ☀ : Blinking

### NOTE

When remaining battery capacity is low, system functions begin to shut off in the following order.

1. Power assistance (Assist mode automatically switches to [ECO] and then assistance shuts off. The switch to [ECO] occurs earlier if a battery-powered light is connected.)
2. Gear shifting
3. Light

## ■ Handling the battery

Charging can be carried out at any time regardless of the amount of charge remaining, but you should fully charge the battery at the following times. Be sure to use the special charger when recharging the battery at these times.

- The battery is not fully charged at the time of purchase. Before riding, be sure to charge the battery until it is fully charged.

If the battery has become fully spent, charge it as soon as possible. If you leave the battery without charging it, it will cause the battery to deteriorate.

- If the bicycle will not be ridden for a long period of time, store it away with approximately 70% battery capacity remaining. In addition, take care not to let the battery become completely empty by charging it every 6 months.

## ■ Installing and removing the battery

The battery is secured to the battery mount with the key.

The following description may not be applicable, as different types of keys are available.

### Installing

#### CAUTION

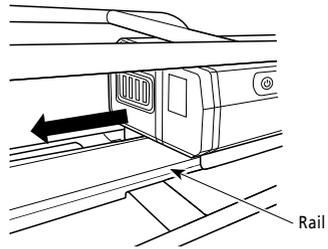
- Hold the battery firmly and be careful to prevent dropping when installing.
- Pay attention to the following to prevent the battery from falling while riding the bicycle:
  - Make sure the battery is locked securely on the battery mount.
  - Do not ride the bicycle with the key inserted.

#### NOTE

Before riding, make sure that the charging port cap is closed.

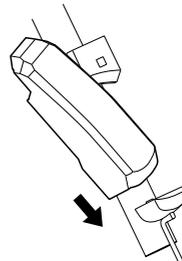
#### BT-E6000/BT-E6001

1. Insert the battery in the battery mount rail from behind.
  - Slide the battery forward, and then push it in firmly.
2. Remove the key.
  - Return the key to the locked position and then remove the key.



#### BT-E6010/BT-E8010/BT-E8014

1. Insert the battery from bottom side.
  - Align the indentation in the bottom of the battery with the protrusion on the battery mount.



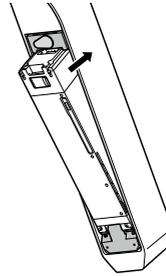
- 2.** Slide the battery.
  - Push in the battery until there is a click.
- 3.** Remove the key.
  - Return the key to the locked position and then remove the key.



### BT-E8020

This procedure is an example using a frame whose battery is removed/installed from below.

- 1.** Insert the battery from bottom side.
- 2.** Slide the battery.
  - Push in the battery until there is a click.



## Removing

### CAUTION

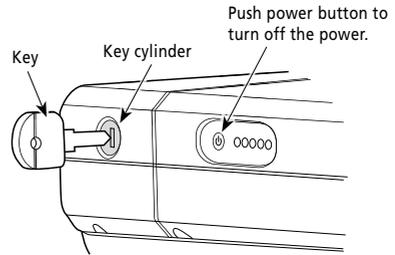
- Hold the battery firmly and be careful to prevent dropping when removing or carrying it.

#### BT-E6000/BT-E6001

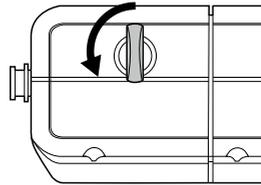
The position of the key does not affect the insertion of the battery. You can insert it regardless of the key position.

#### 1. Insert the Key.

Turn off the power, then insert the key into the key cylinder in the battery mount.

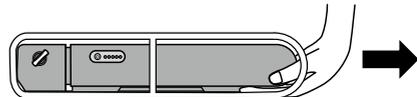


#### 2. Turn the key until you feel some resistance.



#### 3. Remove the battery carefully.

You can remove the battery only when the key is in the unlocked position.

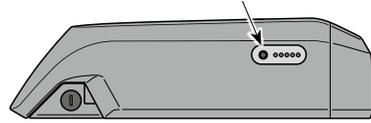


## BT-E6010/BT-E8010/BT-E8014

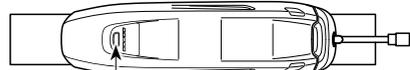
1. Insert the Key.  
Turn off the power, then insert the key into the key cylinder in the battery mount.

<BT-E6010>

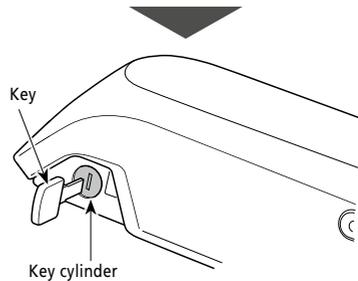
Push power button to turn off the power.



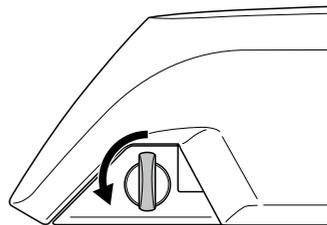
<BT-E8010/BT-E8014>



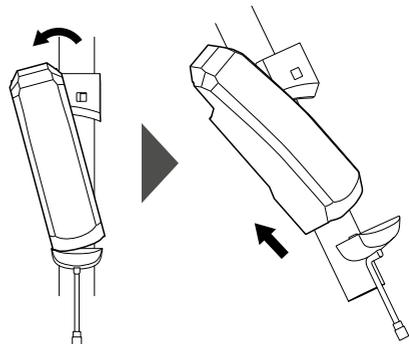
Push power button to turn off the power.



2. Turn the key until you feel some resistance.



3. Remove the battery
  - Slide the battery, then remove it carefully.
  - You can remove the battery only when the key is in the unlocked position.

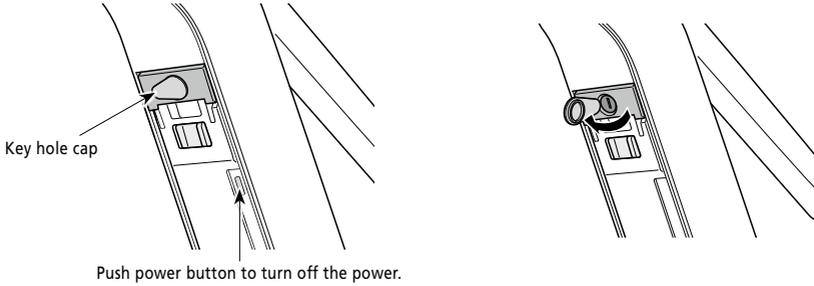


## BT-E8020

- This procedure is an example using a frame whose battery is removed/installed from below.
- If using a battery cover manufactured by another company, remove the battery cover before removing the battery.

### 1. Open the keyhole cap.

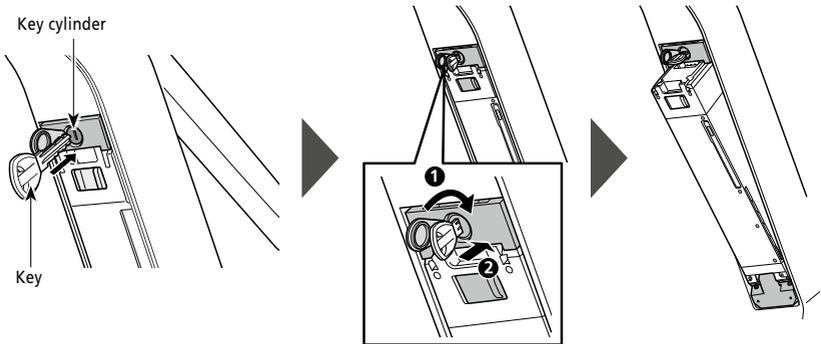
Turn off the power, then open the keyhole cap.



### 2. Unlock the battery.

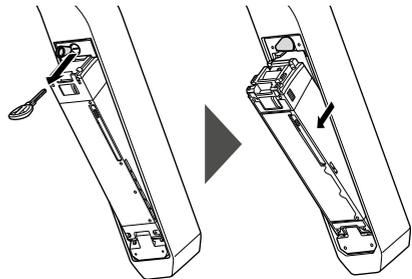
- (1) Insert the key into the key cylinder in the battery mount.
- (2) Turn the key.

The battery is unlocked. The plate spring holds the battery in place, preventing it from falling out.



### 3. Remove the battery.

- (1) Remove the key, then close the keyhole cap.
- (2) Remove the battery carefully.



## NOTE

Do not install or remove the battery with the key left inserted on the battery mount or the keyhole cap left open.  
The battery may be damaged if it comes into contact with the top (grip portion) of the key.

## ■ Installing and removing the cycle computer

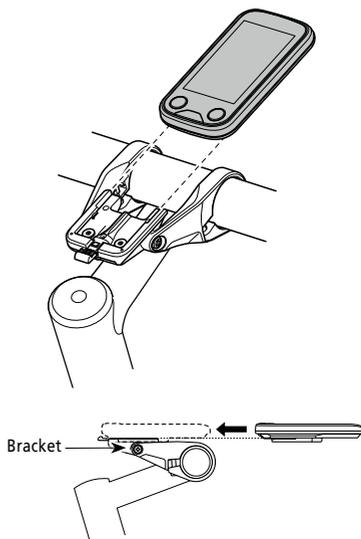
The cycle computer can also be secured to the bicycle so that it cannot be easily removed. Please contact your place of purchase for details.

### Installing

1. Slide the cycle computer onto the bracket.
2. Insert the cycle computer securely until it clicks into place.

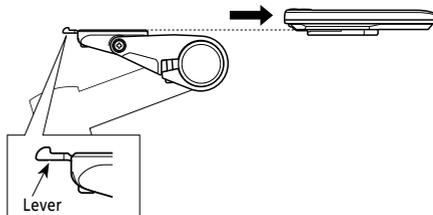
#### NOTE

If the cycle computer is not correctly installed, the assist function will not operate normally.



### Removing

1. Slide out the cycle computer.
  - Push the lever firmly to release the cycle computer.



## Operation

### ■ Turning the power ON / OFF

- The power cannot be turned on while charging.
- If the bicycle has not moved for over 10 minutes, the power will automatically turn off (automatic power off function).

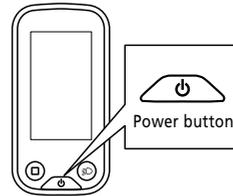
#### NOTE

Do not place your foot on the pedals when turning ON/OFF. This may cause a system error.

### Powering on using the cycle computer with the cycle computer

- If the built-in battery of the cycle computer isn't charged sufficiently, it will not power on.
- The built-in battery of the cycle computer only charges when the cycle computer screen is on.

1. Hold down the power button for 2 seconds.



### Powering on from the battery with the battery

It is possible to forcibly power off BT-E8010/BT-E8020 by holding down the power button for 6 seconds.

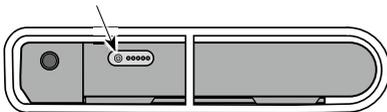
1. Press the power button on the battery. The LED lamps will light up indicating remaining battery capacity.

#### NOTE

When turning on the power, check that the battery is firmly attached to the battery mount.

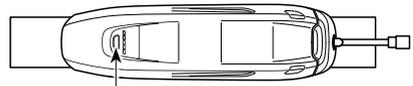
<BT-E6000/BT-E6001>

Power button



<BT-E8010/BT-E8014>

Power button



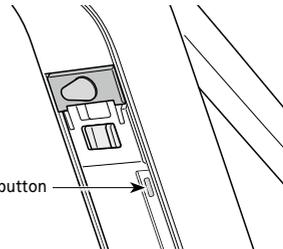
<BT-E6010>

Power button



<BT-E8020>

Power button



## Display when Power is ON

### SC-E6100

When the power is turned ON, a screen similar to that shown below is displayed, and then switches to the basic screen.

Normal startup



Battery level too low

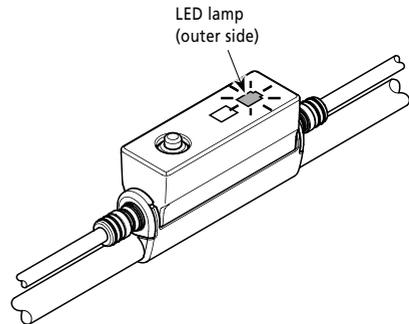


\* The level of the cycle computer's built-in battery is too low.

Turning the power ON with the cycle computer connected to the bicycle will charge the cycle computer's built-in battery.

### EW-EN100

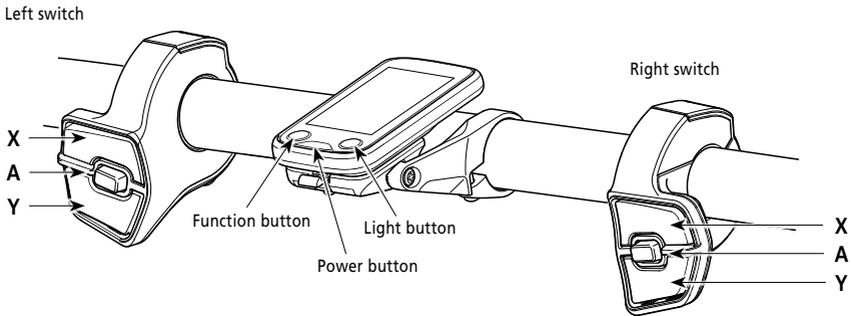
The LED lamp (outer side) turns ON.



## Basic operation

It is possible to change assigned functions for individual switches. For details, please consult with the dealer from which you purchased the product.

### Cycle computer (SC-E6100) and switch units (SW-E6010)



Left switch (default: for assistance)		Right switch (default: for electronic shifting)	
Assist-X	<b>At riding:</b> increase assistance. <b>At setting:</b> move the setting menu cursor, adjust settings, etc.	Shift-X	<b>At riding:</b> shift gears to increase pedal resistance.
Assist-Y	<b>At riding:</b> decrease assistance. <b>At setting:</b> move the setting menu cursor, adjust settings, etc.	Shift-Y	<b>At riding:</b> shift gears to decrease pedal resistance.
Assist-A	<b>At riding:</b> change the travel data display on the cycle computer. <b>At setting:</b> switch between the screens, confirm settings.	Shift-A	<b>At riding:</b> switch between automatic and manual gear shifting (for electronic internal geared hub).

Cycle computer (SC-E6100)			
Function button	<b>At riding:</b> change the travel data display on the cycle computer.	Light button	Turn the lights ON/OFF.
	<b>At setting:</b> switch between the screens, confirm settings.	Power button	Turn the power ON/OFF.

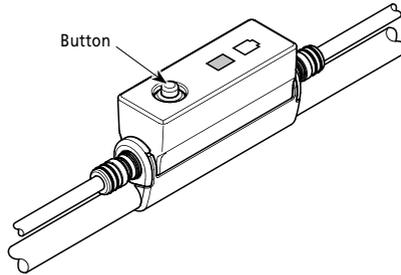
### NOTE

When the bicycle uses a rear derailleur, be sure to shift gears while pedaling.

## 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.



### Junction [A]

Button	Press: change the assist mode each time you press it. Press and hold (about 2 seconds): turn the light ON/OFF
--------	--

### NOTE

- To change to walk assist mode, a switch unit is required.
- The button does not recommend operating this unit while riding the bicycle. Please select your preferred assist mode before riding.
- For other functions assigned to the button, see "Setting (EW-EN100)."

## ■ Turning the light ON / OFF

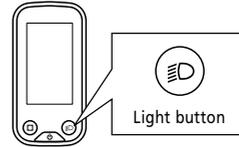
- If your bicycle has the lights connected to drive unit, the lights can operate from the cycle computer or junction [A].
- The light turns off in conjunction with the battery power. When the battery power is off, the light is off.

### SC-E6100

#### 1. Press the light button.

- Lights are turned on.
- To turning off the lights, push the button again.

\* When the battery powered light is not connected and [Backlight] is set to [MANUAL], pressing the light button turns the cycle computer's backlight on and off.



When the light is turned on



When the light is turned off

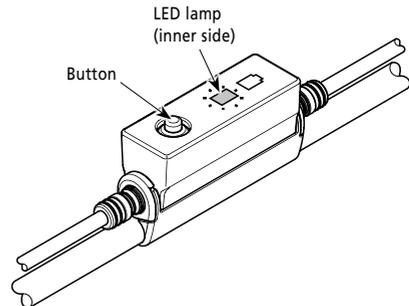


### EW-EN100

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 LED lamp (inner side) blinks green.



## ■ Basic status display

### SC-E6100

Displays the status of your bicycle and travel data.

The gear position is only displayed when using electronic gear shifting.

**(A)** Battery level indicator

**(B)** Gear position display

-  Current gear position
-  Start mode gear position\*
-  Shifting advice

This notifies you of the recommended timing at which to shift based on the bicycle riding conditions.

**(C)** Travel data display

**(D)** Gear shifting mode\*

Displays current gear shifting mode as [Auto] or [Manual].

**(E)** Assist gauge

Displays assistance level.

**(F)** Current assist mode

**(G)** Current speed

**(H)** Current time

**(I)** Light icon

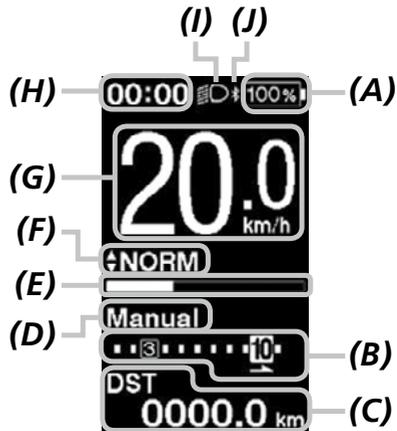
Indicates that the light connected to the drive unit is lit.

**(J)** Bluetooth® LE icon

Displayed when connected over Bluetooth LE.

\* Only for electronic gear shifting with internal geared hub.

< Basic screen of SC-E6100 >

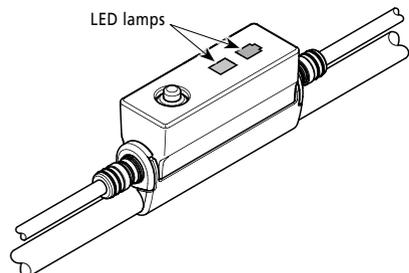


### EW-EN100

LED lamps indicate the following status.

- Current battery level
- Current assist mode

For details, see "Battery level indicator" and "Changing the assist mode".



## Battery level indicator

You can check the battery level while riding.

### SC-E6100

The battery level is shown as a number and icon.

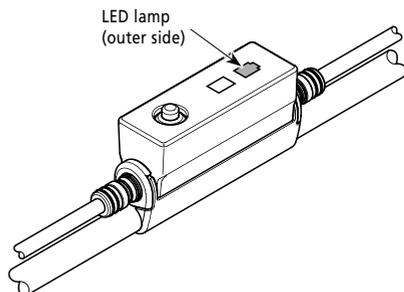
The display varies depending on the bicycle. You must connect to E-TUBE PROJECT to change this. Please contact a distributor for details.

Display	Battery level
	100%
↕	↕
	0%

### EW-EN100

While power is turned on, the outer side LED lamp indicates the battery level.

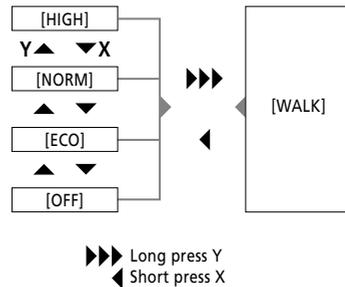
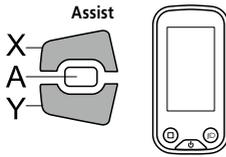
LED lamp (outer side) indication	Battery level
 (Lit in green)	100 to 21%
 (Lit in red)	20% or less
 (blink in red)	Only a few left



## ■ Changing the assist mode

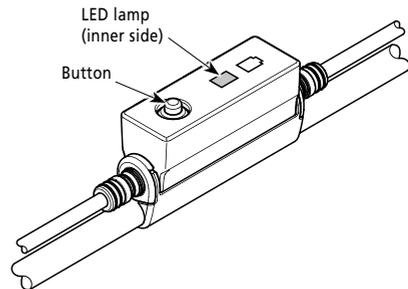
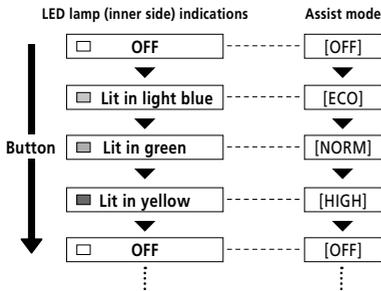
### Changing the assist mode with switch unit

1. Press Assist-X or Assist-Y.



### Changing the assist mode with EW-EN100

1. Press button.  
 Assist mode is changed each time you press it.  
 The LED lamp (inner side) indicates current assist mode.



## Walk assist mode

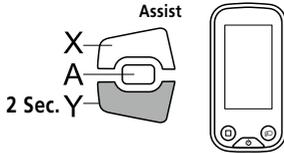
- This mode may not be available in certain regions.
- The walk assist function can operate at a maximum of 6 km/h. The assistance level and speed vary with the gear position.

### Switch to walk assist mode

1. Press and hold Assist-Y (about 2 seconds) until the following occurs.

SC-E6100: [WALK] is displayed on the screen

EW-EN100: LED lamp (inner side) lights up blue



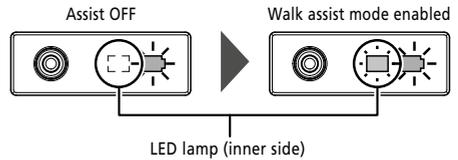
#### NOTE

A warning tone will sound while switching is in progress if it is not possible to switch to [WALK] mode because the current speed is not [0 km/h] or there is pressure on the pedals etc.

< SC-E6100 >



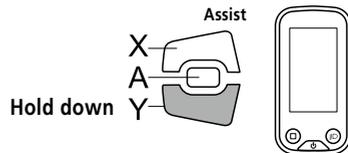
< EW-EN100 >



### Operation of walk assist function

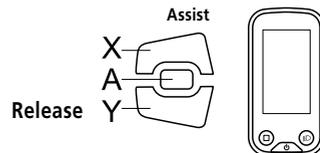
1. While in walk assist mode, press and hold down Assist-Y.

- Start the walk assist function.
- If Assist-Y is not operated for over 1 minute, the assist mode will change to [OFF].
- If the switch unit is connected to EW-EN100, the LED lamp (inner side) blinks blue when the above operation is performed.

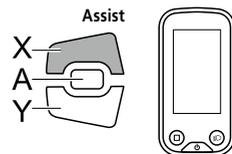


2. Hold the handlebar and push the bicycle carefully.

3. To stop the walk assist function, release Assist-Y.

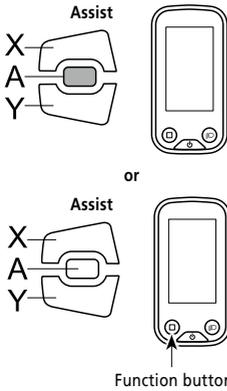


4. To exit the walk assist mode, press the Assist-X button.

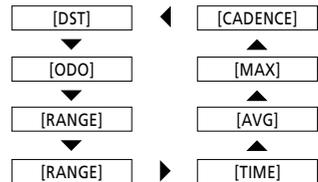


## ■ Switching the travel data display (SC-E6100)

1. The type of travel data displayed changes each time you press Assist-A or the cycle computer's function button.



Display item	Description
[DST]	Traveling distance *1
[ODO]	Cumulative distance
[RANGE]	Travelable distance *2
[RANGE]	Travelable distance for each assist mode *2 *3 *4
[TIME]	Travelable time *4
[AVG]	Average speed *4
[MAX]	Maximum speed *4
[CADENCE]	Your crank rotation speed *4



\*1 When [DST] is displayed, press Assist-A for 2 seconds to reset the all travel data.

\*2 Travelable distance figures are approximations to be used for reference purposes only.

\*3 This data is displayed as follows. Gear shifting mode and gear position are not displayed.

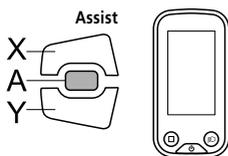
<b>RANGE</b>	
<b>HIGH</b>	<b>61 km</b>
<b>NORM</b>	<b>77 km</b>
<b>ECO</b>	<b>97 km</b>

\*4 Optional item: You can configure the display settings in E-TUBE PROJECT. For details, refer to the "Connection and communication with devices".

## Clearing the traveling distance

You can clear the traveling distance in the main screen. When the traveling distance is cleared, [TIME] (travelable time), [AVG] (average speed), [MAX] (maximum speed) are also cleared.

1. Press Assist-A to change the travel data display to [DST].



2. Press and hold down Assist-A until the value below the [DST] display blinks.



3. Press Assist-A again.

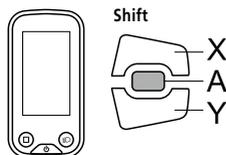
- Travel data is cleared.
- The [DST] value stops blinking and the screen takes resets to the basic screen after being left alone for 5 seconds.

## Switch the gear shifting mode

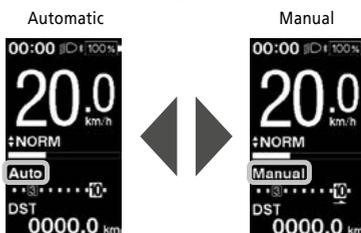
This function is only for electronic gear shifting by internal geared hub.

1. Press Shift-A at the basic screen.

Each press switches between [Manual] and [Auto].



< SC-E6100 >

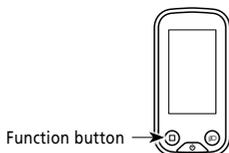


[Auto]	Automatically shift gears according to the pedal load.
[Manual]	Manually operate the gear-shift mechanism for electronic gear shifting.

# Setting menu (SC-E6100)

## ■ Launching

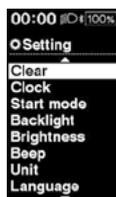
1. Stop your bicycle.
2. Press and hold the function button.  
When the display changes to the setting screen, release the button.



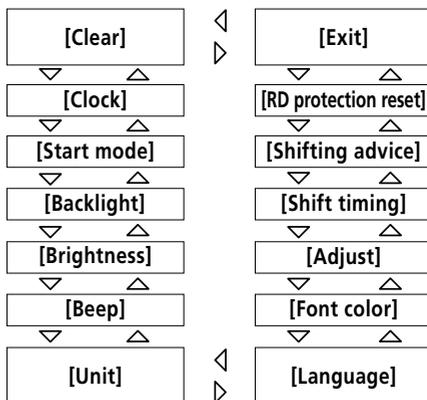
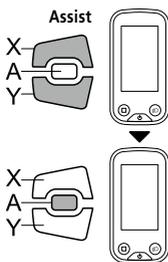
< Basic screen >



< Setting menu screen >



3. Select the menu item.
  - (1) Press Assist-X or Assist-Y to move the cursor on setting menu.
  - (2) Press Assist-A.
 The display changes to the selected menu item.



Configurable items	Details
[Clear]	Reset the traveling distance or the setting values.
[Clock]	Set the current time.
[Start mode] <sup>*1</sup>	Set the start gear.
[Backlight]	Configure the display backlight.
[Brightness]	Set the display brightness.
[Beep]	Turning the beep sound ON/OFF.
[Unit]	Select between km and miles.
[Language]	Set the display language.
[Font color]	Select the display character color between black and white.
[Adjust] <sup>*2</sup>	Adjust the electronic gear shifting unit
[Shift timing]	Adjust the shift timing
[Shifting advice]	Turning the shifting advice ON/OFF
[RD protection reset] <sup>*3</sup>	Activating RD protection reset
[Exit]	Return to the main screen.

\* 1 Only for electronic shifting with internal geared hub

\* 2 Only for electronic shifting

\* 3 Only for electronic shifting with rear derailleur

## ■ Clear

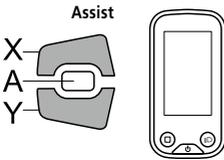
Reset the traveling distance or the setting values.

When the [DST] (traveling distance) is cleared, [TIME] (travelable time), [AVG] (average speed) and [MAX] (maximum speed ) are also cleared.

### 1. Enter the [Clear] menu.

- (1) Launch the setting menu.
- (2) Press Assist-X or Assist-Y to select [Clear], then press Assist-A.

### 2. Press Assist-X or Assist-Y to select what you want to reset.



Configurable items	Details
[Exit]	Return to setting menu.
[DST]	Reset the traveling distance
[Default]	Reset the setting values of the cycle computer.

Items and default values reset by [Default] are as follows:

- [Backlight]: ON
- [Beep]: ON
- [Unit]: km
- [Language]: English
- [Brightness]: 3
- [Font color]: White

### 3. Press Assist- A to reset the selected item.

- \* The screen will automatically return to the setting menu screen.

## ■ Clock

Sets the current time. First set "hour" then "minute".

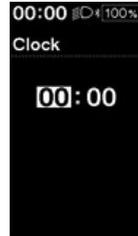
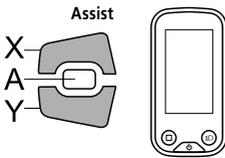
In step 2 and 4 in below procedure, you can change the values quickly by holding down Assist-X or Assist-Y.

### 1. Enter the [Clock] menu.

- (1) Launch the setting menu.
- (2) Press Assist-X or Assist-Y to select [Clock], then press Assist-A.

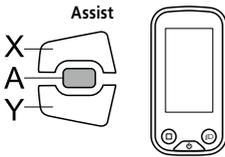
### 2. Press Assist-X or Assist-Y to adjust the time.

- Press Assist-X to increase the value.
- Press Assist-Y to decrease the value.



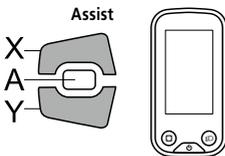
### 3. Press Assist-A to confirm the setting.

The cursor moves to minutes value.



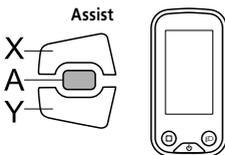
### 4. Press Assist-X or Assist-Y to adjust the minutes value.

- Press Assist-X to increase the value.
- Press Assist-Y to decrease the value.



### 5. Press Assist-A to confirm the setting.

\* The screen will automatically return to the setting menu screen.

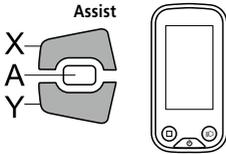


## ■ Start mode

Set the start gear of the start mode function.

It is possible to have the gear automatically shifted to the number set here when you start moving from a standstill.

1. Enter the [Start mode] menu.
  - (1) Launch the setting menu.
  - (2) Press Assist-X or Assist-Y to select [Clock], then press Assist-A.
2. Press Assist-X or Assist-Y to move the cursor to the item you want to configure.

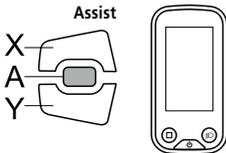


Configurable items	Details
[OFF]	No setting
[1 - 11]	1-11-speed *

\* The setting will vary depending on the bicycle derailleur.

3. Press Assist-A to confirm the setting.

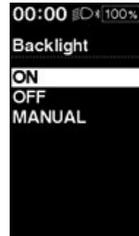
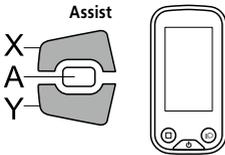
\* The screen will automatically return to the setting menu screen.



## ■ Backlight

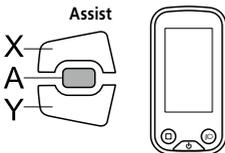
Configure the display backlight.

1. Enter the [Backlight] menu.
  - (1) Launch the setting menu.
  - (2) Press Assist-X or Assist-Y to select [Backlight], then press Assist-A.
2. Press Assist-X or Assist-Y to move the cursor to the item you want to configure.



Configurable items	Details
[ON]	Always turned on
[OFF]	Always turned off
[MANUAL]	Turns on and off in conjunction with the battery-powered light

3. Press Assist-A to confirm the setting.
  - \* The screen will automatically return to the setting menu screen.

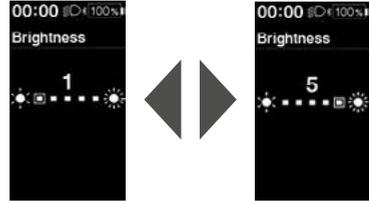
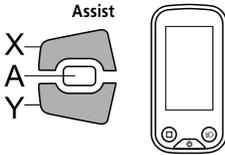


## ■ Brightness

Set the display brightness.

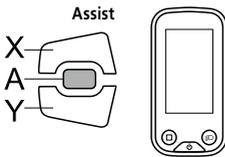
1. Enter the [Brightness] menu.
  - (1) Launch the setting menu.
  - (2) Press Assist-X or Assist-Y to select [Brightness], then press Assist-A.
2. Press Assist-X or Assist-Y to adjust the brightness.

Brightness can be adjusted to one of five levels.



3. Press Assist-A to confirm the setting.

\* The screen will automatically return to the setting menu screen.

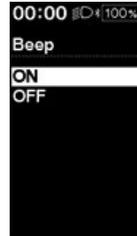
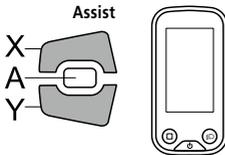


## ■ Beep

Turn the beep sound ON/OFF.

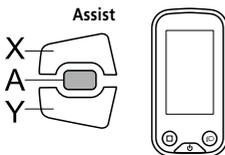
Even when [Beep] is set to [OFF], a beep will sound when there is a misoperation, system error, etc.

1. Enter the [Beep] menu.
  - (1) Launch the setting menu.
  - (2) Press Assist-X or Assist-Y to select [Beep], then press Assist-A.
2. Press Assist-X or Assist-Y to move the cursor to the item you want to configure.



Configurable items	Details
[ON]	Enable beeps
[OFF]	Disable beeps

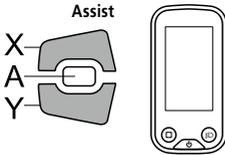
3. Press Assist-A to confirm the setting.
  - \* The screen will automatically return to the setting menu screen.



## ■ Unit

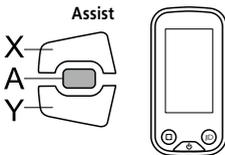
Toggle between kilometers and miles.

1. Enter the [Unit] menu.
  - (1) Launch the setting menu.
  - (2) Press Assist-X or Assist-Y to select [Unit], then press Assist-A.
2. Press Assist-X or Assist-Y to move the cursor to the item you want to configure.



Configurable items	Details
[km]	Displayed in km
[mile]	Displayed in miles

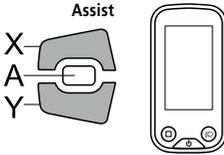
3. Press Assist-A to confirm the setting.  
\* The screen will automatically return to the setting menu screen.



## ■ Language

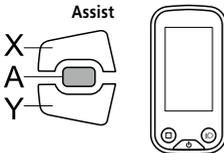
Set the display language.

1. Enter the [Language] menu.
  - (1) Launch the setting menu.
  - (2) Press Assist-X or Assist-Y to select [Language], then press Assist-A.
2. Press Assist-X or Assist-Y to move the cursor to the item you want to configure.



Configurable items
[English]
[Français]
[Deutsch]
[Nederlands]
[Italiano]
[Español]

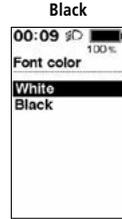
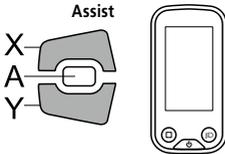
3. Press Assist-A to confirm the setting.  
\* The screen will automatically return to the setting menu screen.



## ■ Font color

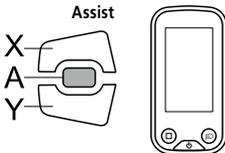
Toggle the font character color between black and white.

1. Enter the [Font color] menu.
  - (1) Launch the setting menu.
  - (2) Press Assist-X or Assist-Y to select [Font color], then press Assist-A.
2. Press Assist-X or Assist-Y to move the cursor to the item you want to configure.



Configurable items
[White]
[Black]

3. Press Assist-A to confirm the setting.  
\* The screen will automatically return to the setting menu screen.



## ■ Adjust

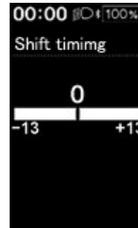
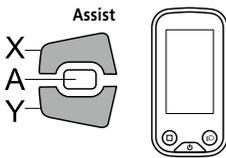
If you need to adjust the rear shifting unit, contact the place of purchase.

## ■ Shift timing

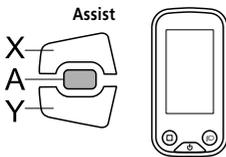
Adjust the shift timing of the automatic shift mode.

This setting is used when shifting advice is displayed during manual shift mode.

1. Enter the [Shift timing] menu.
  - (1) Launch the setting menu.
  - (2) Press Assist-X or Assist-Y to select [Shift timing], then press Assist-A.
2. Press Assist-X or Assist-Y to adjust the values.
  - Pressing Assist-X to increase the value adjusts shift timing to make pedaling easier.
  - Pressing Assist-Y to decrease the value adjusts shift timing to make pedaling harder.



3. Press Assist-A to confirm the setting.
  - \* The screen will automatically return to the setting menu screen.

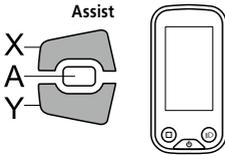


## ■ Shifting advice

Turn the shifting advice function ON/OFF.

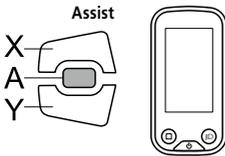
If turned [ON], this notifies you of the recommended timing at which to shift based on the bicycle riding conditions during manual shifting mode.

1. Enter the [Shifting advice] menu.
  - (1) Launch the setting menu.
  - (2) Press Assist-X or Assist-Y to select [Shifting advice], then press Assist-A.
2. Press Assist-X or Assist-Y to move the cursor to the item you want to configure.



Configurable items	Details
[ON]	Enable the shifting advice function
[OFF]	Disable the shifting advice function

3. Press Assist-A to confirm the setting.  
\* The screen will automatically return to the setting menu screen.

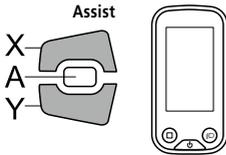


## ■ RD protection reset

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

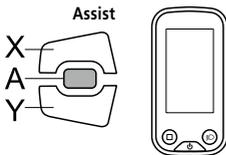
Executing “RD Protection Reset” restores the connection between the motor and the link, as well as the function of the rear derailleur.

1. Enter the [RD protection reset] menu.
  - (1) Launch the setting menu.
  - (2) Press Assist-X or Assist-Y to select [RD protection reset], then press Assist-A.
2. Press Assist-X or Assist-Y to select [OK].



Configurable items	Details
[OK]	Execute the “RD protection reset”.
[Cancel]	Cancel and return to setting menu.

3. Press Assist-A.



4. Rotate the crankarm.  
Connection of motor and the link is restored.

## ■ Exit

Return to the main screen.

1. Launch the setting menu.
2. Press Assist-X or Assist-Y to select [Exit], then press Assist-A.  
\* The screen will automatically return to the setting menu screen.

## Settings (EW-EN100)

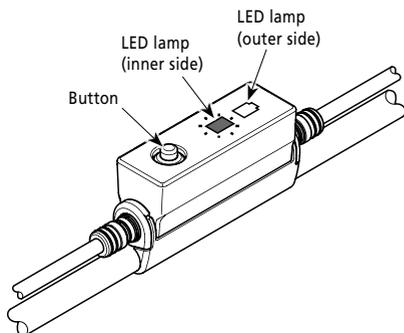
The setting function can not be used while riding the bicycle.

### ■ RD protection reset

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

Executing "RD Protection Reset" restores the connection between the motor and the link, as well as the function of the rear derailleur.

1. Press and hold the button (about 8 second) until the LED lamps respond as shown in the table on the right.



RD protection reset.	
LED lamp (inner side)	LED lamp (outer side)
 Blinks red	 OFF

2. Rotate the crankarm.  
Connection of motor and the link is restored.

### ■ Adjust

You can adjust gear shifting only when using an electronic gear shifting unit.  
If you need to adjust the derailleur, contact the place of purchase.

## Drive unit setting data backup function

The data saved to the drive unit is usually backed up automatically. However, performing the following operations will cause a message to appear asking whether or not you want to update the backup data.

- Reinstalling the cycle computer on a bicycle with different settings.
- Changing the drive unit settings for an E-TUBE PROJECT.

## Connection and communication with devices

The system can be configured and firmware can be updated when the bicycle is connected to a device (PC/tablet).

You need E-TUBE PROJECT to configure SHIMANO STEPS and update firmware.

Download an E-TUBE PROJECT from the support website (<http://e-tubeproject.shimano.com>).

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

- Connecting to devices is not possible while charging.
- You need SM-PCE1 and SM-JC40 / JC41 to connect SHIMANO STEPS to a PC.
- Firmware is subject to change without notice.  
If necessary, contact the place of purchase.

## About wireless functions

### Functions

The latest functions can be checked by updating the software via E-TUBE PROJECT. For details, consult the place of purchase.

### ANT connection

The wireless unit transmits all the information from the main screen of the cycle computer.

### Bluetooth® LE connection

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

### How to make a connection

To make a connection, the device connected to SC-E6100 or EW-EN100 needs to be in connection mode. For information on how to switch the device to connection mode, refer to the manual for the device.

### 2.4 GHz digital wireless system

2.4 GHz-frequency digital wireless technology is the same technology used for wireless LAN communication.

However, on very rare occasions, the following and places may generate strong electromagnetic waves and interference, which may result in incorrect measurements.

- When near televisions, computers, radios and motors/engines, or when riding in car and trains.
- When near railroad crossings or railway tracks, and around television transmitting stations and radar bases.
- Around other wireless computers or digitally controlled light.

### Specifications for wireless system

Model no.	SC-E6100	EW-EN100
Frequency band	2402–2480 MHz	2402–2480 MHz
Maximum radio-frequency power	+4 dBm	+4 dBm
Firmware version	4.0.0	4.0.0

## Errors and remedies

### ■ Battery LED lamp error indications

System errors and similar warnings are indicated by the battery LED lamps through various lighting patterns.

Error indication type	Indication condition	Lighting pattern *1	Recovery
System error	Communication error with the bicycle system		Make sure that the cable is not loose or improperly connected. If the situation does not improve, contact the place of purchase.
Temperature protection	If the temperature exceeds the guaranteed operating range, the battery output is turned off.		Leave the battery in a cool place away from direct sunlight until the internal temperature of the battery decreases sufficiently. If the situation does not improve, contact the place of purchase.
Security authentication error	This is displayed if a genuine drive unit is not connected. This is displayed if any of the cables are disconnected.		Connect a genuine battery and drive unit. Check the condition of the cables. If the situation does not improve, contact the place of purchase.
Charging error	This is displayed if an error occurs during charging.		Remove the charger from the battery and press the power button, if an error appears contact an agency.
Battery malfunction	Electrical failure inside the battery		Connect the charger to the battery and then remove the charger. Press the power button with only the battery connected. If an error appears with only the battery connected, contact the place of purchase.

\*1 ● : Not lit ○ : Lit up  : Blinking

## ■ Error messages on the cycle computer

### Warnings

This disappears if the error is fixed.



Code	Display preconditions	Operational restrictions while warning is displayed	Remedy
W010	The temperature of the drive unit is high.	The level of assistance may decrease.	Stop using the assist function until the temperature of the drive unit drops. If the situation does not improve, contact the place of purchase.
W011	The traveling speed cannot be detected.	The maximum speed up to which power assistance is provided may decrease. (Power assistance is provided up to 25 km/h in top gear.)	Check that the speed sensor is properly installed. If the situation does not improve, contact the place of purchase.
W030	Two or more assist switches are connected to the system.	Gear shifting is not available for electronic derailleurs.	Change the assist switch to the gear shifting switch, or connect only one assist switch and turn on the power again. If the situation does not improve, contact the place of purchase.
W032	An electronic derailleur may have been installed in place of a mechanical derailleur.	Power assistance provided in [WALK] mode may be lower than usual. * The walk assist mode function may not be available in certain regions.	Reinstall the derailleur for which the system is configured to support. If the situation does not improve, contact the place of purchase.
-	A communication error between the drive unit and the motor unit was detected.	Gear shifting is not available for electronic derailleurs.	Check that the cable is properly connected between the drive unit and the motor unit. If the situation does not improve, contact the place of purchase.

## Error

If an error message is displayed on the entire screen, follow one of the procedures below to reset the display.

- Press the power button of the battery.
- Remove the battery from the battery mount.

### NOTE

If resetting the battery power does not solve the problem or the same problem occurs frequently, contact the place of purchase.

<SC-E6100>



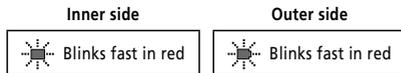
Code	Display preconditions	Operational restriction when an error is being displayed	Remedy
E010	A system error was detected.	Power assistance is not provided during riding.	Press the power button of the battery to turn it on again. If the situation does not improve, contact the place of purchase.
E013	An anomaly was detected in the drive unit's firmware.	Power assistance is not provided during riding.	Contact the place of purchase or bicycle dealer.
E014	The speed sensor may have been installed in the wrong position.	Power assistance is not provided during riding.	Contact the place of purchase or bicycle dealer.
E020	A communication error between the battery and drive unit was detected.	Power assistance is not provided during riding.	Check that the cable between the drive unit and battery is properly connected. If the situation does not improve, contact the place of purchase.
E021	Battery connected to drive unit conforms with system standards but is not supported.	Power assistance is not provided during riding.	Contact your place of purchase or a local bicycle dealer for assistance.
E022	Battery connected to drive unit does not conform with system standards.	Power assistance is not provided during riding.	Contact your place of purchase or a local bicycle dealer for assistance.
E030	The installed shifting component differs from the component configured in the system.	Power assistance is not provided during riding.	Contact your place of purchase or a local bicycle dealer for assistance.

Code	Display preconditions	Operational restriction when an error is being displayed	Remedy
E033	The current firmware is not compatible with this system.	Power assistance is not provided during riding.	Connect to E-TUBE PROJECT, then update the firmware for all units to the latest version.
E043	Part of the cycle computer's firmware may be damaged.	Power assistance is not provided during riding.	Contact the place of purchase or bicycle dealer.

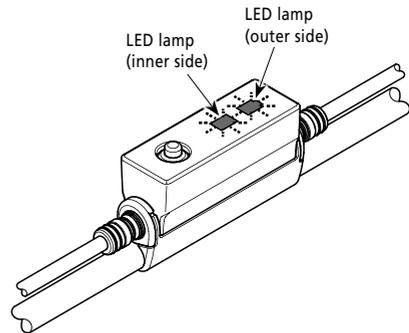
## ■ Error indications (EW-EN100)

If an error occurs, both LEDs of the EW-EN100 blink rapidly at the same time as shown below.

### LED lamps indications



If the above occurs, immediately turn off the power then consult the place of purchase or a bicycle dealer.



## ■ Troubleshooting

### Assist function

Symptom	Cause / Possibility	Remedy
Assistance is not being provided.	Is the battery sufficiently charged?	Check the battery charge. If the battery is nearly spent, recharge it.
	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 (DU-E6100/DU-E6110), cycle computer (SC-E6100) or assist switch (SW-E6010) 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. Assistance is not provided at speeds of 25 km/h or more.
Assistance is not being provided.	Are you pedaling?	The bicycle is not a motorbike, so you need to operate the pedals.
	Is the assist mode set to [OFF]?	Set the assist mode to [HIGH]. If you still do not feel that assistance is being given, contact the place of purchase.
	Is the system power ON?	If you have performed the steps below and still do not feel the assistance, contact the place of purchase. Press and hold the cycle computer power button for 2 seconds, or press the battery power button to turn the power ON.
Assist traveling distance is too short.	The traveling distance may become shorter depending on road conditions, the gear position and whether the light are ON or OFF.	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.

Symptom	Cause / Possibility	Remedy
Pedaling is stiff.	Are the tires inflated to a sufficient pressure?	Use a pump to add air.
	Is the assist mode set to [OFF]?	Set the assist mode to [HIGH]. If you still do not feel that assistance is being given, contact the place of purchase.
	The battery may be running low.	After charging the battery well, check the level of assistance again. If you still do not feel that assistance is being given, contact the place of purchase.
	Did you turn on the power with your foot placed on the pedal?	Turn on the power again without putting pressure on the pedal. If you still do not feel that assistance is being given, contact the place of purchase.

### Battery

Symptom	Cause / Possibility	Remedy
All the five battery level indicators stay on.	The firmware version of the drive unit may be out-of-date.	Consult the place of purchase and check the firmware version.
The battery quickly loses its charge.	The battery may be at the end of its service life.	Replace the battery with a new one.
The battery cannot be recharged.	Is the power plug of the charger securely inserted into the electrical outlet?	Disconnect and then reconnect the power plug of the charger, and then repeat the recharging operation. If the battery still cannot be recharged, contact the place of purchase.
	Is the recharging plug of the charger securely inserted into the battery?	Disconnect and then reconnect the recharging plug of the charger, and then repeat the recharging operation. If the battery still cannot be recharged, contact the place of purchase.
	Is the charging adapter securely connected to the charging plug, or to the battery charging port?	Securely connect the charging adapter to the charging plug or to the battery charging port, and charge again. If the battery still does not charge, consult a dealer.
	Is the connecting terminal for the battery charger, charging adapter, or battery dirty?	Wipe the connection terminals with a dry cloth to clean them, and then repeat the recharging operation. If the battery still cannot be recharged, contact the place of purchase.
The battery does not start recharging when the charger is connected.	The battery may be at the end of its service life.	Replace the battery with a new one.
The battery and charger are becoming hot.	The temperature of the battery or charger may exceed the operating temperature range.	Stop recharging, wait for a while and then recharge again. If the battery is too hot to touch, it may indicate a problem with the battery. Contact the place of purchase.

Symptom	Cause / Possibility	Remedy
The charger is warm.	If the charger is being used continuously to charge batteries, it may become warm.	Wait a while before using the charger again.
The LED on the charger does not illuminate.	Is the recharging plug of the charger securely inserted into the battery?	Check the connection for any foreign objects before reinserting the charging connector. If there is no change, contact the place of purchase.
	Is the battery fully charged?	If the battery is fully charged, the LED on the battery charger turns off, but this is not a malfunction. Disconnect and then reconnect the power plug of the charger, and then repeat the recharging operation. If the LED on the charger still does not illuminate, contact the place of purchase.
The battery cannot be removed.		Contact the place of purchase.
The battery cannot be inserted.		Contact the place of purchase.
Fluid is coming out from the battery.		Contact the place of purchase.
An abnormal odor can be detected.		Stop using the battery immediately and contact the place of purchase.
Smoke is coming out from the battery.		Stop using the battery immediately and contact the place of purchase.
The replaced battery does not work.	The firmware of the drive unit may not be compatible with the battery.	Contact the place of purchase to inquire about compatibility.

### 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.

## Cycle computer

Symptom	Cause / Possibility	Remedy
The cycle computer is not displayed when you push the battery power button.	The amount of battery charge may be insufficient.	Recharge the battery, and then turn the power on once more.
	Is the power turned on?	Hold down the power button to turn on the power.
	Is the battery charging?	The power cannot be turned on while the battery is mounted on the bicycle and being charged. Stop charging.
	Is the cycle computer correctly installed to the bracket?	Install the cycle computer correctly while referring to "Installing and removing the cycle computer".
	Is the electric wire connector correctly installed?	Check to see if the connector of the electric wire connecting the motor unit to drive unit is not disconnected. If you are not sure, contact the place of purchase.
	A component that the system cannot identify may be connected.	Contact the place of purchase.
The system does not start up when you press and hold the cycle computer power button for 2 seconds.	Did you use the cycle computer in, or expose it to, low temperatures for an extended period?	The cycle computer may become unable to turn on if used in, or exposed to, low temperatures for an extended period. Turn it on by pressing the power button on the battery. If it still does not turn on, consult a dealer.
	Is the cycle computer correctly installed to the bracket?	Install the cycle computer correctly while referring to "Installing and removing the cycle computer".
The gear position is not displayed.	The gear position is only displayed when the electronic gear shifting unit is installed.	Check if the electric wire connector is disconnected. If you are not sure, contact the place of purchase.
Can the beep be turned off.		Change the setting. Refer to "Beep".
Can the backlight be turned off.		Change the setting. Refer to "Backlight".
The setting menu cannot be launched while riding the bicycle.	The product is designed so that if it detects that the bicycle is being ridden, the Setting menu cannot be launched. This is not a sign of an abnormality.	Stop the bicycle and then make the settings.

Other

Symptom	Cause / Possibility	Remedy
When pressing the switch, two beeps sound, and the switch cannot be operated.	Operation of the switch being pressed has been disabled.	It is not a sign of a malfunction.
Three beeps sound.	An error or warning is occurring.	This occurs when a warning or error is displayed on the cycle computer. Refer to the section "Error messages on the cycle computer" and follow the instructions provided for the appropriate code.
When using a electronic gear shifting mode, 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 the computer control.	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.	<b>For mechanical gear shifting</b> Adjust the cable tension. For details, refer to the Service Instructions for the derailleur. <b>For powered gear shifting</b> Contact the place of purchase.
When you stop the bicycle, the gear does not shift to the position preset in the start mode.	You may have been pressing the pedals too strongly.	If you press the pedals lightly, the gear shifts more easily.

**\* 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

# SHIMANO

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

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