ELECTRICAL BICYCLE USER'S MANUAL

BİSAN MOTOSİKLET VE BİSİKLET SAN. VE TİC. A.Ş.

CONTENTS

PREFACE

Congratulations!

Enjoy your new electric bicycle to the fullest! The correct assembly and operation of your bicycle are essential for your riding pleasure. The Bisan customer service department is here to serve your satisfaction with the Bisan difference. If you have any questions or need assistance with assembly, parts, performance, or warranty processes, please contact our authorized service centers.
Happy riding!

Phone: 0 (232) 877 00 28

Customer Service: Monday - Friday 07:30-17:30 (Business Hours)

Other contact channels:

Website: www.bisan.com.tr

Email: info@bisan.com.tr

Address: Bisan Motorcycle and Bicycle Industry and Trade Inc.
Kemalpaşa OSB. Mah. İzmir-Ankara Asfaltı No: 83 Kemalpaşa/İZMİR

Please do not return this product to the dealer. When you need assistance, contact the nearest authorized service or Bisan customer service. You will need the serial number located under the bottom bracket and your invoice. For the location of the serial number on your bicycle, refer to Figure 4.1.

This manual is important for:

Understanding your new electric bicycle. By reading this guide before your first ride, you can achieve higher performance and an enjoyable riding experience. Your first ride is crucial. Ride your new bicycle in a safe environment, away from cars, other cyclists, and obstacles.

This guide contains vital safety information. It aims to be a comprehensive guide covering everything, including the assembly, usage, and maintenance of the bicycle.

The images used in the guide are representative images. Your bicycle may not have the same features.

A SPECIAL NOTE FOR PARENTS

As a parent or guardian, your child's safety is your responsibility. Are the dimensions of the bicycle your child is using appropriate? Understand motor vehicle, bicycle, and traffic laws, and safe riding techniques, and communicate them to your child while keeping them under control. As a parent, you must read this guide before allowing your child to ride a bicycle. Please ensure that your child always wears an approved bicycle helmet when riding a bicycle.

1 SAFETY

SAFETY WARNINGS

The following safety instructions and symbols will alert you to potential hazards. Ignoring these warnings can lead to damage to your bicycle, personal injury, or even death. This guide contains numerous warnings and alerts that must be followed.

Proper maintenance of the bicycle and ensuring that it operates correctly, especially the safe use of the braking systems, are the responsibility of an adult user or a parent who ensures that their children are properly educated.

The installation, adjustment, and removal of training wheels on children's bicycles should be performed by authorized service centers.

WARNING!

Indicates a danger or an unsafe practice that could result in serious injury or death. Failure to read, understand, and follow the safety information in this guide can lead to serious injury or death.

WARNING!

Indicates a potential hazard or unsafe practice.
Signifies minor injuries.

USER RESPONSIBILITY

WARNING!

Do not attach any type of electric motor or internal combustion engine to the bicycle. Modifying a bicycle in this way poses an extreme safety risk for the rider and can lead to a loss of control.

All individuals involved in assembling, using, and maintaining the bicycle must read and understand the safety warnings and usage instructions in this guide before riding the bicycle.

Proper maintenance of the bicycle and ensuring that it operates correctly are the responsibility of an adult user or a parent for a child. Doing so will reduce the risk of injury.

Always perform regular maintenance and checks on your bicycle. Prioritize the points to be considered in the Safety Check List at the end of this section before each use.

CAUTION!

A responsible adult should always supervise the bicycle's use by a child. You should ensure that:

The child is wearing appropriate protective clothing and using a bicycle helmet with a CE certification.

The child is sitting safely, and the bicycle's size is suitable for the child.

Riding Safety

WARNING!

Riding a bicycle in unsafe conditions (i.e., at night), riding in an unsafe manner, or disregarding traffic laws can lead to unexpected loss of control and result in serious injuries or death.

General Safety

• Learn all the features of the bicycle before riding. If available, test gear shifting, pedal straps, and brakes.

• Always ride in a straight line and never ride against traffic.

• Stay away from vehicle doors and do not pass too closely to them in case they open suddenly.

• Exercise extra caution when preparing for intersections for the passage of other vehicles.

• Maintain a comfortable stopping distance between yourself and all other drivers, vehicles, and objects. The safe braking distance depends on ideal weather conditions. Do not lock the brakes. When braking, always apply the rear brake first, then the front brake. The front brake is more powerful, and if applied first, you may lose control and fall.

• Do not use items that may restrict your hearing and vision (e.g., headphones).

• Wear appropriate clothing, choose reflective attire if possible, and avoid open-toed shoes.

• Always use the correct hand signals to indicate turning or stopping.

• Do not carry packages or passengers if they will affect the control of your bicycle.

• Obey traffic rules.

Road Conditions

• Be aware of road conditions. Focus on the road. Avoid potholes, gravel, wet roads, slippery surfaces, speed bumps, manhole covers, and other obstacles.

Rainy Weather:

• Always wear reflective clothing and use safety lights to increase visibility when cycling in rainy weather.

• Be very cautious when cycling in rainy weather.

• Ride at a slower speed. Gradually turn the handlebars when going around corners and avoid sudden braking.

• If you brake early, you will have a longer stopping distance.

• Surfaces like manhole grates, road markings, and train tracks will be more slippery when wet. Be careful.

Night Riding

Important! Riding a bicycle at night is not recommended. Consult the Traffic Law for night riding regulations.

• Make sure the bicycle is equipped with a complete set of reflectors.

• Use a white light at the front and a red light at the rear. Use flashing lights for better visibility.

• If you are using battery-operated lights, charge the batteries or replace them with new ones.

• Wear reflective and light-colored clothing. Use reflective clothing for increased visibility, and accompany it with safety lights.

• Only ride at night if necessary. Ride slowly and use well-lit streets that you know.

Climbing Technique

• If you still find it challenging in the lowest gear, you can pedal standing up. This way, you will get more power with each pedal stroke.

• When descending, use higher gears to prevent rapid pedaling.

• Once you have reached the desired speed, do not accelerate, or decelerate.

• Braking earlier than normal will require additional distance to stop, so apply the brakes gradually.

Cornering Technique

• Brake slightly before entering the turn and prepare to lean your body into the corner.

• Keep the inner pedal at 12 o'clock and lean it slightly in the direction you are turning your knee.

• Keep your other leg straight, do not pedal quickly or frequently.

• For sharp turns, reduce your riding speed and avoid sudden braking.

Safety Rules for Children Riding Bicycles

Ensure that children wear an appropriate helmet when riding bicycles.Do not ride on roads for motor vehicles or allow children to do so.
Avoid riding in areas with heavy traffic and keep children away from such areas.
Do not ride at night, and do not allow children to do so.
Obey all traffic laws, especially traffic signs and red lights.
Be aware of other motor vehicles near you.
Exercise extra caution when riding downhill. Slow down using the brakes and maintain control of the handlebars.
When riding downhill, never remove your hands from the handlebars or your feet from the pedals.

Pre-Ride Safety Checklist

It is essential to perform the following safety checks before every ride. Do not ride a bicycle that is not in proper working condition!

ACCESSORIES

- Reflectors are properly placed and not obscured.

Note: Your bicycle may not come equipped with reflectors from the manufacturer. (If your bicycle is not equipped with reflectors from the manufacturer, you can obtain them yourself.)

- All other connecting parts on the bicycle are properly and securely attached and in working order.

- The rider is wearing a properly fitted helmet and using protective clothing and laceless shoes.

BEARINGS

- All bearings are lubricated and have no restriction or play in their movement.

BRAKES

- Both front and rear brakes are functioning properly.
- Brake pads are within wear tolerances.
- Brake cables are lubricated, properly adjusted, and show no obvious signs of wear.
- Brake levers are lubricated and securely attached to the handlebar.

CHAIN

- The chain is lubricated, clean, and functions smoothly.

PEDALS, CRANKS, AND CRANK ARMS

- Pedals are securely attached to the crank arms.
- Crank arms are securely attached to the bottom bracket.

FRAME AND FORK

- The frame and fork are securely attached to each other.
- Quick-release levers are securely locked.

HANDLEBARS

- Handlebars and fork are properly aligned and securely gap-free.
- Handlebars are adjusted correctly concerning the fork and the direction of travel.
- Handlebar clamp bolt is firmly tightened.

RIMS AND TIRES

- Rims are free from dirt or grease.
- Wheels are securely attached to the fork.
- Tires are inflated to the recommended pressure.
- Tires have an appropriate amount of tread, and there is no excessive wear.
- Performing these safety checks before each ride helps ensure that your bicycle is in proper working condition, reducing the risk of accidents or injuries

BATTERY

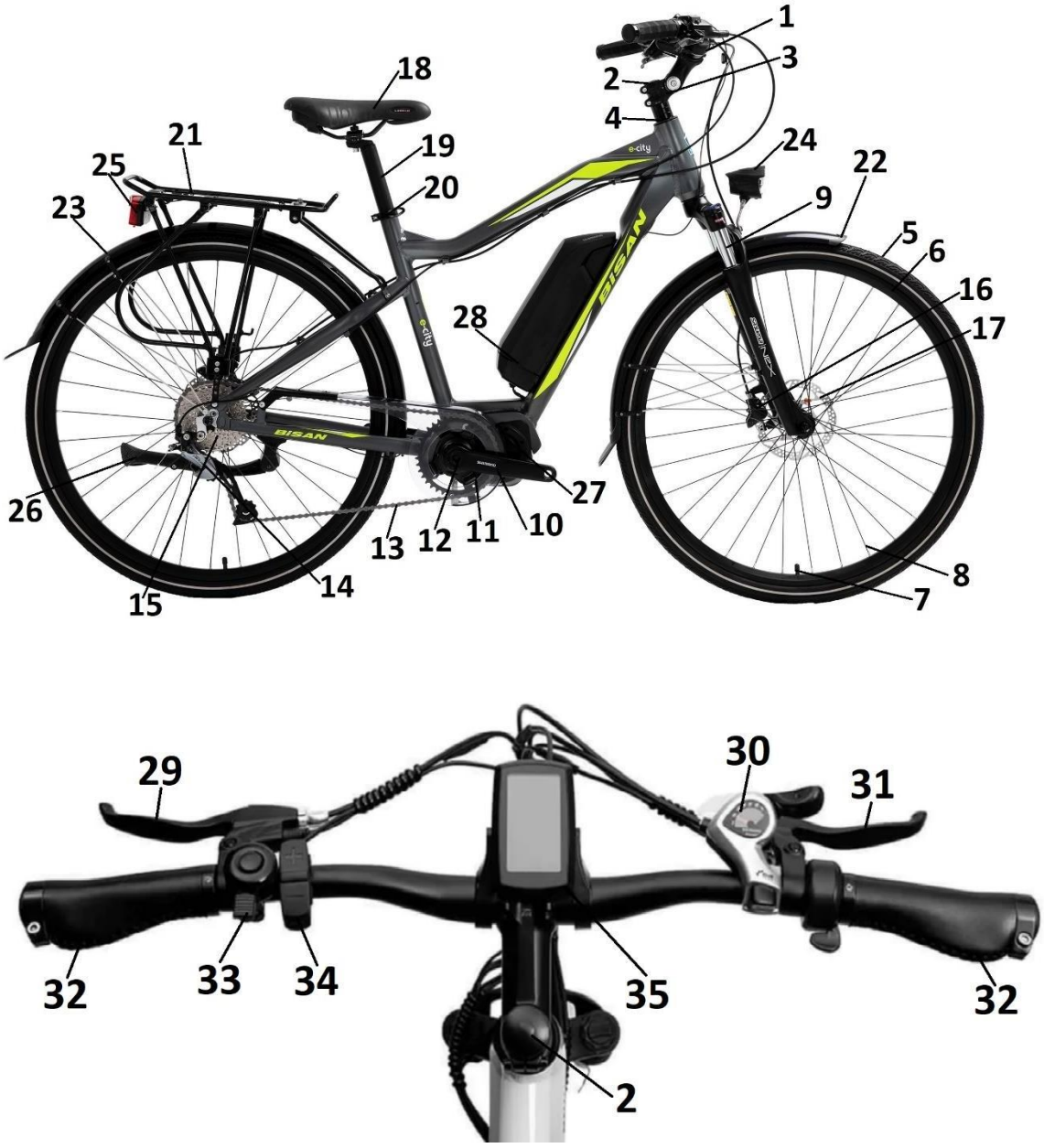
□ Is the battery level sufficient?

□ Is the battery installed correctly?

2. BİCYCLE PARTS

Part Name		Torc (N.m)	Part Name		Torc (N.m)	Part Name		Torc (N.m)
1	Handlebar		**14**	Rear Derailleur		**27**	Motor	
2	Stem Fixing Bolt	11-14	**15**	Cassette Sprocket		**28**	Battery	
3	Stem		**16**	Disc Brake Calliper		**29**	Front Brake Lever	
4	Head Set	20-30	**17**	Rotor		**30**	Shift Lever	
5	Tire		**18**	Saddle		**31**	Rear Brake Lever	6-8
6	Rim		**19**	Seat Post		**32**	Grip	
7	Tire Valve		**20**	Seat Clamp	6,5-8	**33**	Bell	
8	Spoke		**21**	Rear Carrier		**34**	Switch	
9	Front Fork		**22**	Front Fender		**35**	Display / Cycle Computer	
10	Crank Arm	35	**23**	Rear Fender				
11	Chainring	45	**24**	Front Light				
12	Crank Fixing Bolt	34	**25**	Rear Reflector				
13	Chain		**26**	Kickstand				

****BİSAN, üretmiş olduğu ürünlerde değişiklik yapma hakkını saklı tutar.**



**BİSAN reserves the right to make changes in the products it produces.

3 ASSEMBLY

WARNING!

Incorrect assembly of this product can result in serious injuries or death. Always follow the instructions in this guide, and check critical parts (wheels, seats, pedals, brakes, gear shifters, tires) before each use. If you have doubts or concerns about your experience with bikes or the correct assembly, repair, or maintenance of your bike, we recommend seeking the assistance of a bike expert. If your bike is already assembled, we recommend reading and performing the checks specified in this guide before riding.

Your new bicycle was assembled in the factory, adjusted, and then partially disassembled for transport. You may have already purchased the bicycle fully assembled and ready to ride, or it may have been partially disassembled in the shipping box. The following instructions are prepared to help you use your bicycle for years to come. For more information on lubricating, maintaining, and adjusting any area, please refer to the relevant sections in this guide. Please consult an authorized expert before riding.

Always leave the assembly, repair, and maintenance of the bicycle to authorized service centers. If you intervene within the warranty period and have the skill or experience, it will void the warranty.

REQUIRED TOOLS (Figure 3.1)

1- Torx screwdriver

2- 2mm, 2.5mm, 4mm, 5mm, 6mm, and 8mm Allen wrenches

3- 7mm, 8mm, 9mm, 10mm, 14mm, and 15mm open-end wrenches

4- Pliers with cable cutting capability

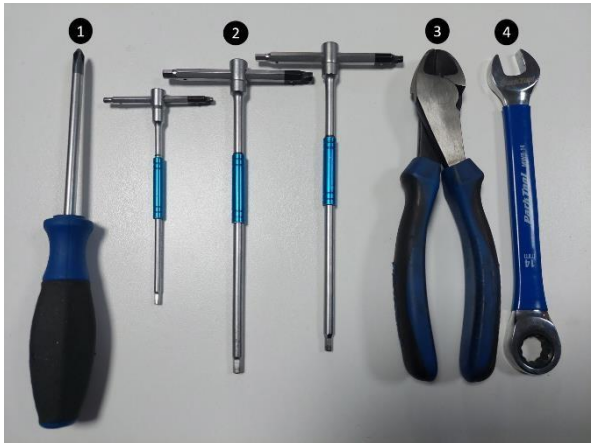


Figure 3.1

INITIAL SETUP

WARNING!

Opening the box outside of an authorized service center will void the warranty.

1. Open the cardboard box from the top and remove the bicycle. See Figure 3.2.

2. Remove the bicycle from its protective packaging. See Figure 3.3.

3. Detach the front wheel from the frame.

Important! Do not discard the packaging materials until the assembly is complete to ensure that essential parts are not accidentally thrown away.

Figure 3.2

HANDLEBAR INSTALLATION

WARNING!

Incorrect attachment of the handlebar can damage the frame and headset assembly. This can lead to a loss of control resulting in serious injuries or death.

Important! The minimum markings on the handlebar stem should not be visible above the upper part of the main stem.

Failure to properly tighten handlebar components can lead to a loss of control resulting in serious injuries or death.

Always check whether the handlebar moves and is securely fastened to the frame before riding.

There are two types of handlebar connections:

Sleeve-type connection

❶ Keep the front fork facing forward. See Figure 3.4

Place the handlebar assembly onto the headset. Make sure all brake and gear cables are running in a straight line.

Important! If the cables are bent, the gear and brake mechanism will not work properly.

❷ Place the stem of the handlebar onto the guide tube, and adjust the handlebar height until the rider feels comfortable and in control of the bike.

❸ Use an Allen wrench to tighten the stem binder bolt at the upper part of the Stem. Check the handlebar binder bolts to ensure they are properly tightened and that the handlebar is securely fixed in place.

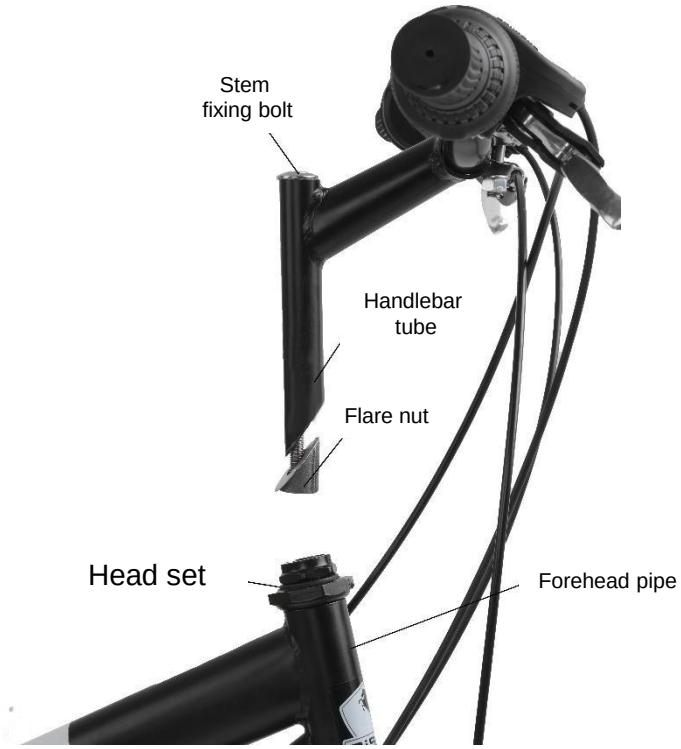


Figure 3.3

Bracket-type Connection

Important! Do not remove the bracket or lose any of its parts.

❶ Keep the fork facing straight ahead.

❷ Remove the 4 screws on the steerer tube using an Allen wrench.

❸ Align the handlebar on the steerer tube.

❹ Tighten and secure the bolts.

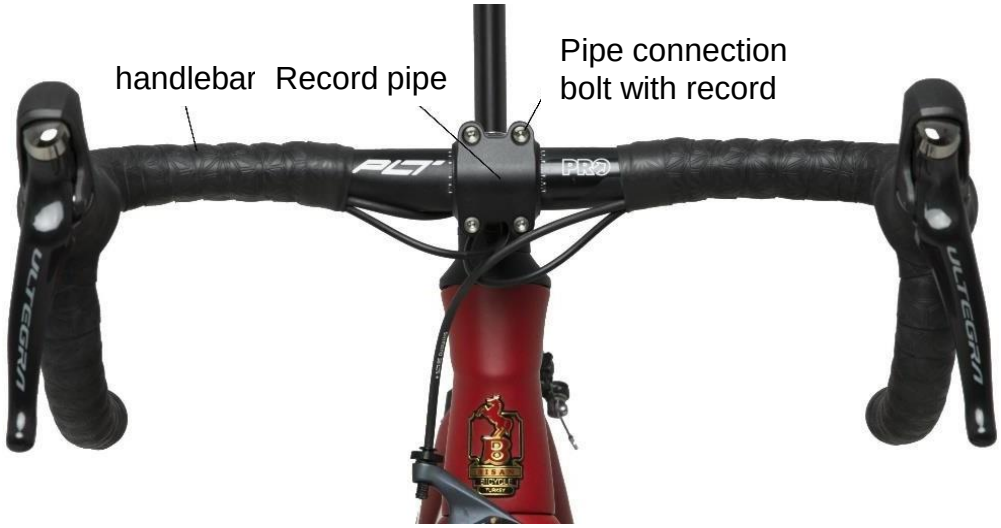


Figure 3.4

INSTALLING THE SADDLE

WARNING!

Incorrectly adjusted saddle height can affect the rider's balance. Unexpected loss of control to reach the handlebars and pedals can result in serious injury or death. Consider this when adjusting saddle height. Always make sure that the minimum marks on the saddle post are not visible above the saddle bracket. Ensure that the saddle bracket is tightened securely, and make sure the saddle does not move.

There are two types of saddle brackets: bolted and quick-release.

There are two types of seat posts: standard and micro-adjustable. They should be installed with the saddle rails centered and level.

TIGHTENING THE SADDLE BRACKET

❶ Use an Allen wrench to loosen the saddle bracket bolt and insert the seat post into the frame. See Figure 3.9.

❷ The saddle height should be adjusted to a position where the rider can control the bicycle and feel comfortable.

Important! Make sure the minimum marks on the seat post are not visible above the seat bracket.

❸ Tighten the saddle bracket bolt to secure the saddle in place.

❹ Check to ensure that the saddle is not moving.

Figure 3.5

How the Quick Release Saddle Bracket Works:

❶ Open the quick-release lever and insert the saddle post into the frame, as shown in Figure 3.10.

❷ Adjust the saddle height to a level that allows the rider to maintain control and ride comfortably.

Note: Make sure the minimum markings on the saddle post are not visible above the saddle bracket, as shown in Figure 1.2, Section 1: Saddle Height and Handlebar Reach.

❸ Close the saddle clamping bracket and secure the saddle in place. If the saddle is moving, open the saddle clamping bracket. With one hand on the adjustment nut and the other on the lever, tighten it by hand until you feel some resistance. You can also use the adjustment nut to remove any remaining slack.

❹ Try to close the saddle clamping bracket. If it closes easily, open it, tighten the adjustment nut further, and then close it. When closing the bracket, make sure the wheel is securely in place and that the saddle is firmly fixed.

Important: Always ensure the saddle is securely attached and that there is no movement.

Figure 3.6

Assembly of a Micro-Adjust Supported Saddle Post:

❶ Place the lower plate on the saddle support. Ensure that the holes in the lower plate align with the holes in the saddle post, as shown in Figure 3.11.

❷ Position the clamp on the hexagonal bolt and attach it directly through the hole in the saddle post and the lower plate.

❸ Insert the saddle rails into the grooves on the lower plate.

❹ Position the upper plate over the saddle rails. The hexagonal bolt should go through the hole in the upper plate.

❺ Attach the square nut onto the hexagonal bolt and tighten it securely.

❻ Insert the saddle post into the frame's hole and adjust the saddle height to a level that allows the rider to maintain control and ride comfortably.

Important: Make sure the minimum markings on the saddle post are not visible above the frame tube, as shown in Figure 1.2, Section 1: Saddle Height and Handlebar Reach.

Ⓖ Secure the saddle firmly to the frame.

Note: Refer to the previous instructions in the section.

❽ Ensure that the saddle is securely fastened.

Note: BİSAN Motorcycle and Bicycle Manufacturing and Trading Inc. has manufactured this bicycle model with the capacity to attach rear carriers, luggage racks, and/or child seats.

Figure 3.7

PEDAL INSTALLATION

WARNING!

Attaching the wrong pedal to a crank arm will cause irreversible damage to the pedal threads. Before installing the pedals, make sure to match the R and L labels on the pedal and crank arm. Please check to ensure that your pedals are correctly installed before your first ride.

It is crucial to properly adjust and check the tightness of the crankset before riding your bicycle.

❶ Match the pedal marked (R) with the right crank arm and the pedal marked (L) with the left crank arm. See Figure 3.12.

❷ Insert the threaded spindle of the pedal into the threaded hole on the crank arm.

❸ Turn the spindle slowly by hand in the correct direction. For the right-side pedal, turn clockwise; for the left-side pedal, turn counterclockwise. Important! If you encounter resistance, stop! The spindle may have been inserted at the wrong angle, which can damage the threads. Remove the pedal and repeat step (2).

❹ If the spindle enters the hole properly, tighten it by hand up to 15 mm. Use a wrench or pliers to fully tighten.

❺ Remove the dust covers and use a 15 mm wrench to tighten the crank axle nuts

Figure 3.8

4. OPERATION and USE

Support Mode Types

HIGH / BOOST	NORM (NORMAL) / TRAIL	ECO
Steep ramps	Slight ramp or flat road	Long distance driving on a flat road
When battery power is low, the support surface can be reduced to increase travel time.		
OFF		
It can be used when you don't need power support.		
It can be used when you are concerned about remaining battery power.		
WALK		
It can be used when walking your electric bike with heavy luggage.		
You can use your electric bike while walking by leaving the underground bicycle parking garage.		
*This mode may not be available in certain regions.		

Figure 4.1

Using the Bicycle

1- Charge the battery.

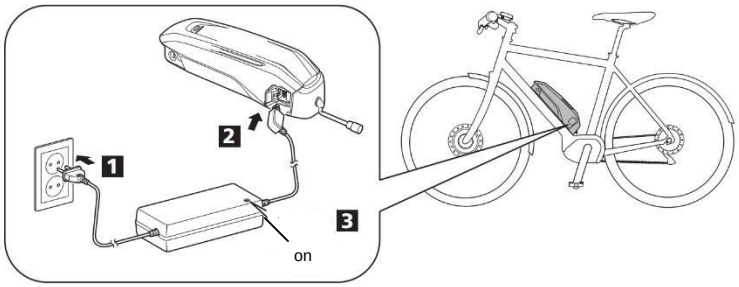


Figure 4.2 External type battery

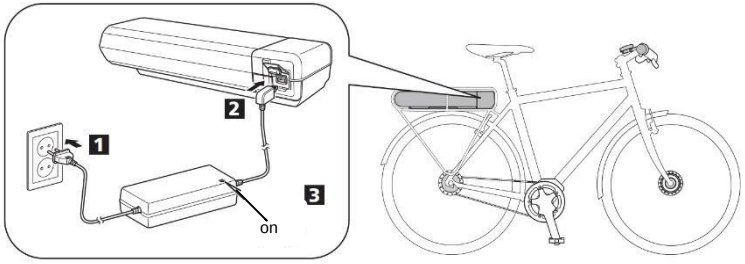


Figure 4.3 rear carrier type battery

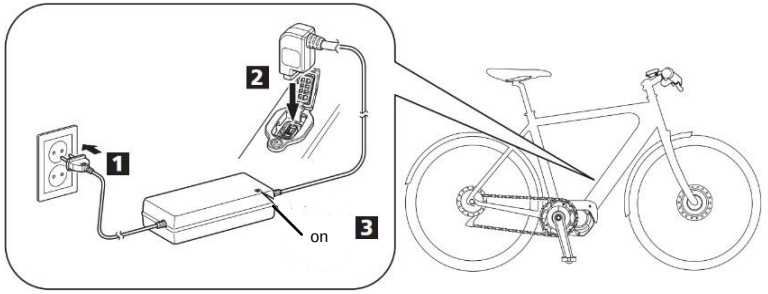


Figure 4.4 integrated type battery

The continuous illumination of the light indicates that it is charging, while blinking suggests a charging error.

*The battery can also be charged while attached to the bicycle.

2- Turn on the power.

You can repeat this procedure to turn it off.

The power CANNOT be turned on during the charging process.

The automatic power OFF function will activate when the bicycle has been idle for 10 minutes.

NOTE: Do NOT place your feet on the pedals when turning the power ON or OFF.

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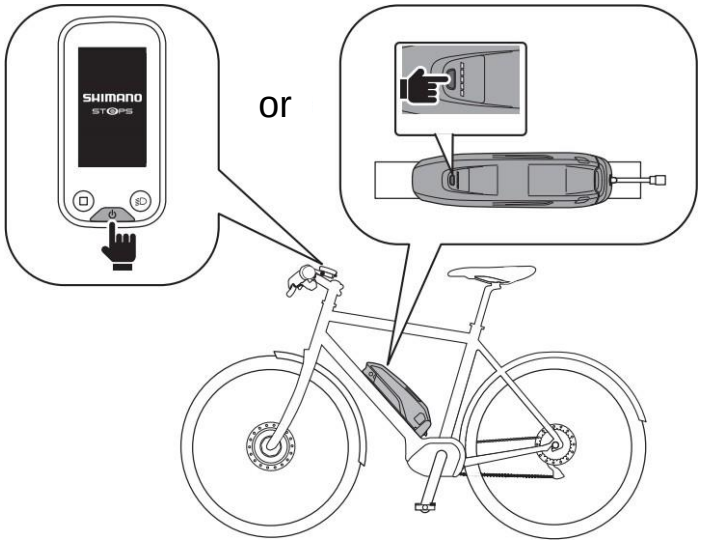


Figure 4.5 External type battery

*Digital displays may vary from model to model.

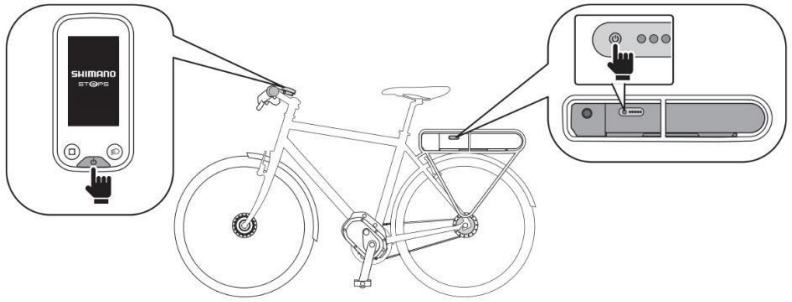


Figure 4.6 carrier type battery

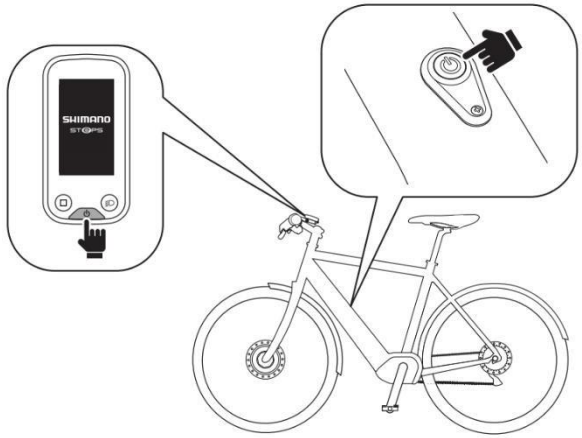


Figure 4.4 integrated type battery

*The location of the power button may vary depending on the bicycle's design.

3. Select the assistance mode. Figure 4.8

* When you TURN THE POWER ON, regardless of the assistance mode you chose when you last turned it OFF, the assistance mode will be reset to [OFF].

4. Get on the bicycle and start pedaling. Assistance will begin as soon as you start pedaling.
5. When you reach your destination, TURN OFF the power and park your bicycle.

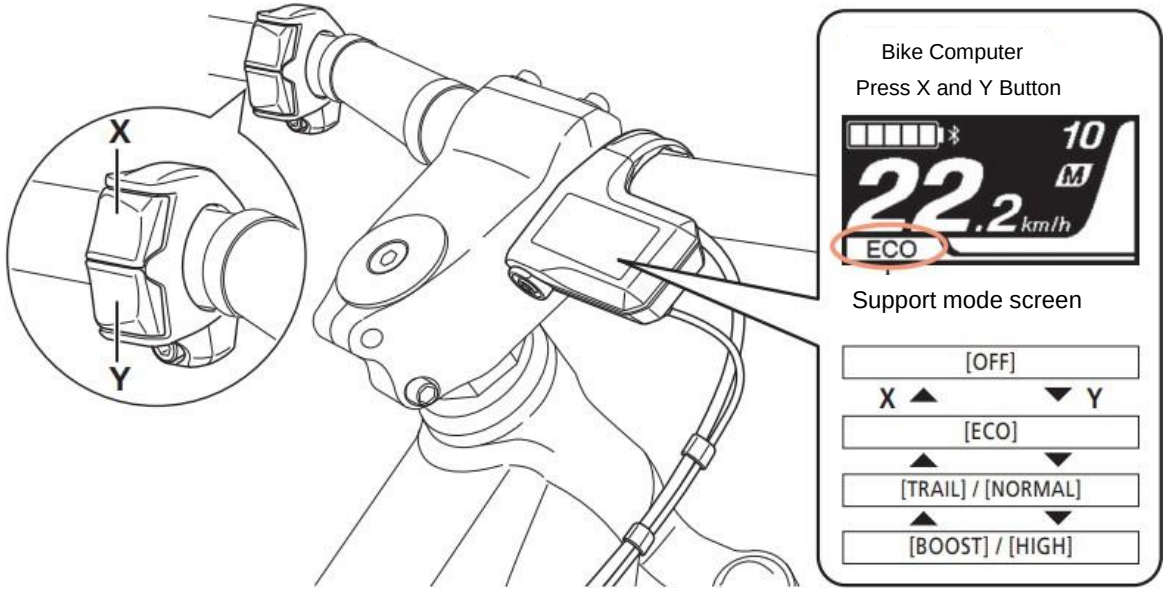


Figure 4.8

Installation and Removal of the Bicycle Computer

The bicycle computer can be securely fixed to the bicycle, making it not easily removable.

Installation

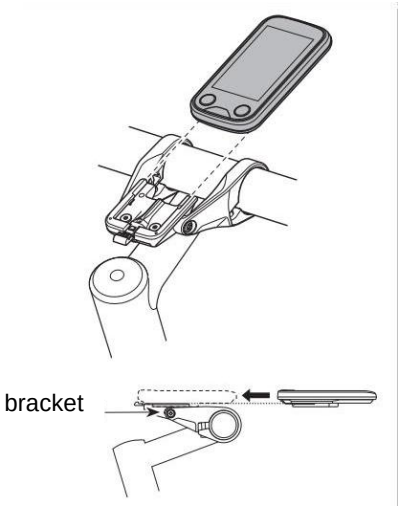


Figure 4.9 fitting process

1. Slide the bicycle computer onto the bracket. See Figure 4.9.
2. Place the bicycle computer securely, ensuring it locks into place.

* If the bicycle computer is not correctly installed, the support will not work correctly.

Removal

1. Slide the bicycle computer outward. See Figure 4.10.

* Push the lever firmly to release the bicycle computer.

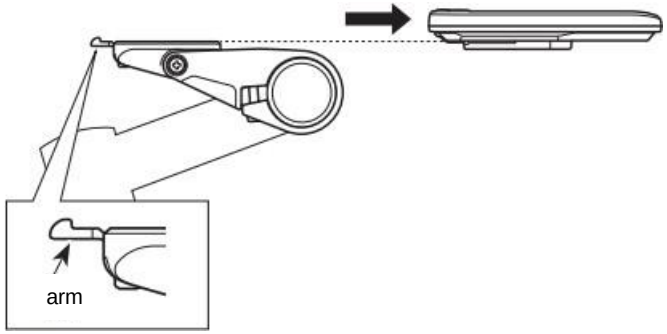


Figure 4.10 subtraction

Walking Support

This function may not be available on bicycles without a support button.

Stand still and switch to walking support mode by pressing and holding the button (Y button) located under the support button until it reaches the state below.
Bicycle computer: [WALK] is displayed. See Figure 4.11.

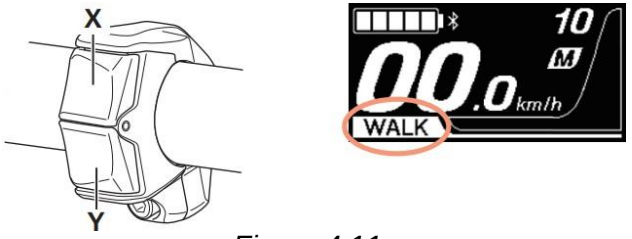


Figure 4.11

*After switching to walking support mode, if nothing is done for one minute, it will return to the selected support mode before the change.

2. Carefully push the bicycle by pressing the same button again. If you release the Y button, the support will stop.

Warnıng!

The walking support function operates at a maximum speed of 6 km/h.
Be cautious: the bicycle will move when the buttons are operated.

3. Exit the walking support mode. Press the button (X button) located at the top of the support button (on the left side of the handlebar).

Figure 4.12

Main Status Screen

(A) Battery charge indicator

(B) Maintenance warning This icon indicates that maintenance is required. If this symbol is displayed, contact the place of purchase or your bicycle dealer.

(C) Gear position display Current gear position Starting mode gear position

*1 Gear shift advice

*2 Informs you about the recommended timing for gear shifting based on the riding conditions.

(D) Trip information display

(E) Gear shift mode13 Displays the current gear shift mode as [Auto] or [Manual].

(F) Support indicator Displays the support level.

(G) Current support mode

(H) Current speed*4

(I) Current time

(J) Lamp icon
Indicates that the drive unit's lamp is on.

(K) Bluetooth® LE icon

Displayed when connected via Bluetooth LE.

*1 Only for electronic gear shifting with hub gear unit.

*2 Only for electronic gear shifting mode set to [Manual].

*3 For rear derailleur models, [Manual] will always be displayed.

*4 In the SC-E7000 model, the trip information displayed in this location can be modified.

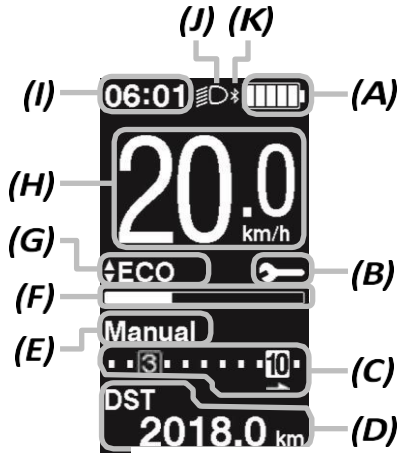


Figure 4.13

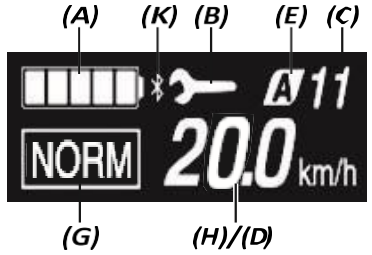


Figure 4.14

*** The features mentioned above may vary depending on the product you purchased. Not all features may be available on the product you have purchased.

Turning On/Off the Light

If your bike is equipped with lights connected to the drive unit, the lights can be operated from the bicycle computer or via a connection [A].
The light will turn off based on the battery power. When the battery power is turned off, the light will go off.

For Digital Display Models:

1. Press the light button. See Figure 4.15.
The lights will turn on.

To turn off the lights, press the button again.

If the battery-powered light is not connected and [Backlight] is set to [MANUAL], pressing the light button will turn on and off the backlight of the bicycle computer.

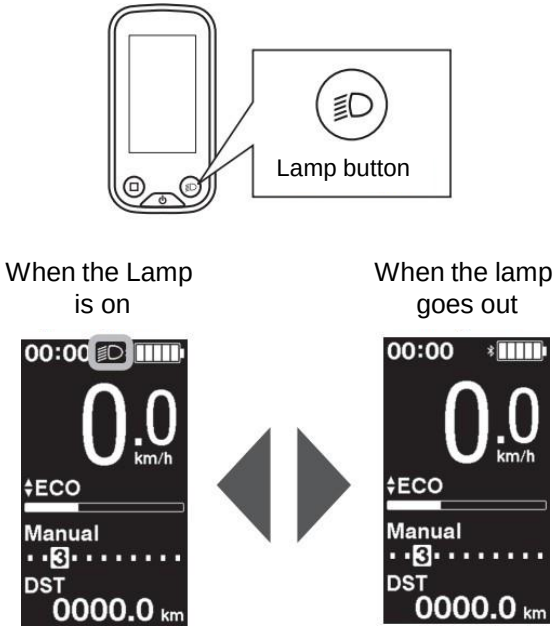


Figure 4.15

Unit - Km/Mi Button

This feature allows you to switch between kilometers and miles units.

1. Enter the [Unit] menu. See Figure 4.17.

Initiate the settings menu.

Press Support-X or Support-Y, select the [Unit] option, and then press Support-A or the function button. See Figure 4.16.

2. Press Support-X or Support-Y to move the cursor to the item you want to configure.

3. Press Support-A or the function button to confirm the setting.

*The screen will automatically return to the settings menu screen.

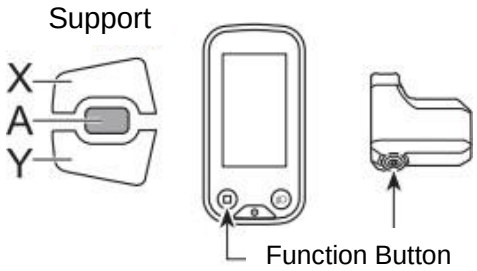


Figure 4.16

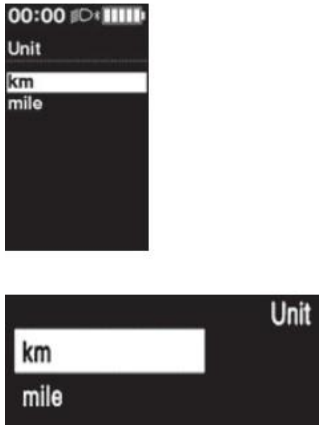


Figure 4.17

*F2 (Vinka) Model Specific

To turn the electric bike on and off, press and hold the POWER button on the electric bike for 1 second.

If the E-Folding bike is parked for 15 minutes, the system will automatically shut down.

Turning Support Mode On/Off

Support mode levels are changed by pressing the DOWN and UP buttons. The default support level ranges from "OFF" level to "5" level, where the output power is zero at the "OFF" level. Level "1" is minimum power, and level "5" is maximum power.

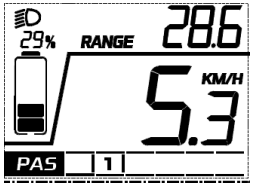


Figure 4.18

Turning the Headlight On/Off

To turn on the headlight, press the light button briefly. The lighting icon will appear on the screen, and the panel's light will automatically dim. Pressing the light button again will turn off the headlight, the lighting icon will disappear, and the screen will return to its previous brightness setting.

Display Settings

To access display settings, press and hold the MODE button and the DOWN button simultaneously. You can navigate between settings using the DOWN/UP buttons. When you reach a setting you want to change, press the MODE button briefly. The display will flash. Use the arrow buttons to set the desired value, and to save and exit, press and hold the MODE button. To exit the settings menu and return to the normal screen, press and hold the MODE button.

Turning On/Off the Walking Mode

To activate the walking mode, press the MODE button briefly, and then continuously press the DOWN button. The " " icon will appear on the screen, and while you keep the DOWN button pressed, the electric bike will move at a speed between 3-6 km/h. When you release the DOWN button, the walking assistance function will turn off.

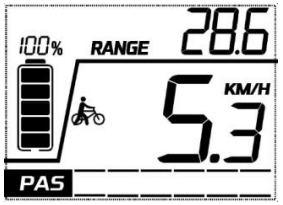


Figure 4.19

Error Code Display

The components of the electric bike system are continuously and automatically monitored. When an error is detected, the relevant error code is displayed in the panel area. In such a situation, please contact your nearest service center.

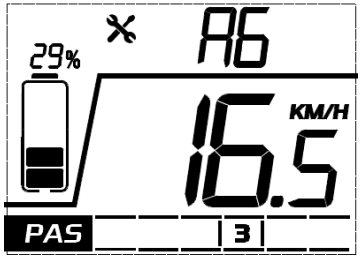


Figure 4.20

Speed Limit Information

The speed limit value is shown for informational purposes only and cannot be changed.

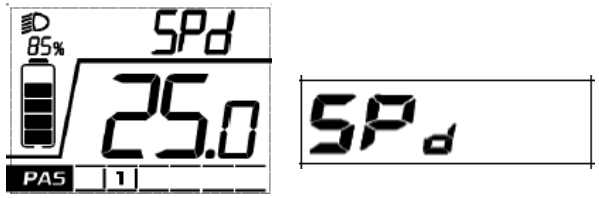


Figure 4.20

Screen Brightness

The BLG interface allows you to adjust the background brightness. You can make adjustments from Level 1 to 5. Level 1 is the dimmest, Level 5 is the brightest, but the standard setting is Level 3 (factory default). Use the DOWN/UP buttons to change the brightness level. Press and hold the POWER button to save the settings and exit the menu.

Figure 4.21

Wheel Size Settings

DIR represents the wheel diameter. The measurement is for informational purposes only and cannot be changed. You can return to the main screen by pressing and holding the MODE button.

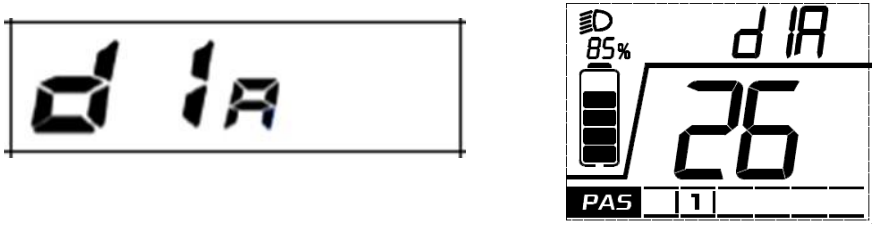


Figure 4.22

Unit Setting

The UNT interface allows you to switch between the metric and imperial measurement systems. Press the MODE button briefly to open the unit change screen. Use the UP/DOWN buttons to make your selection. Press and hold the MODE button to save the changes and return to the main settings screen.

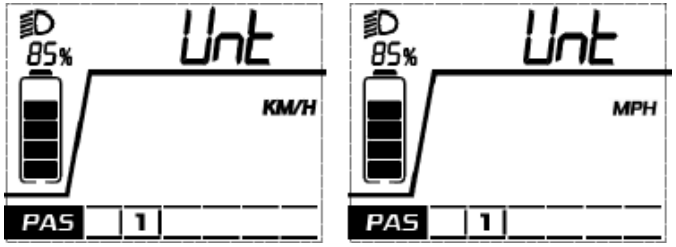


Figure 4.23

TRIP Reset Function

To reset the TRIP indicator, while in TRIP mode, press and hold the UP and DOWN buttons for more than 1 second.

Driver and Display Software Version

CLS displays the software version of the driver, and dPS shows the software version of the display screen. Both parameters are not changeable.

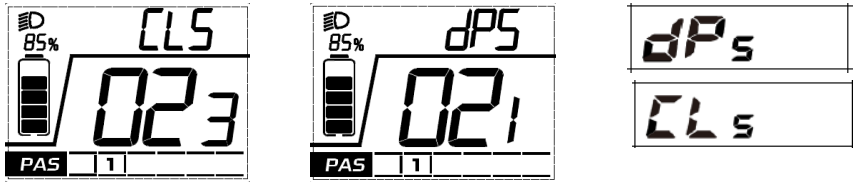
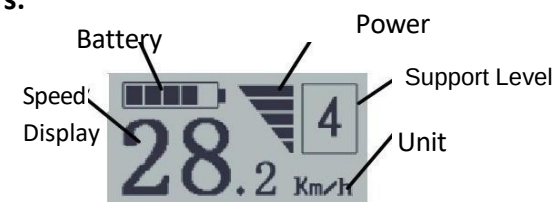


Figure 4.24

*E-Folding F2 (Bafang) Model Specific

The digital display features three buttons represented by the following functions: Mode, Up, and Down buttons.

Display Indicators:



Turning the Electric Bike On/Off

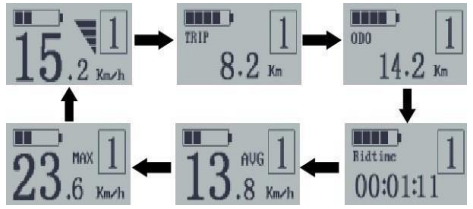
To turn the electric bike on or off, press and hold the POWER button on the e-bike for 2 seconds. If the E-Folding F2 model remains parked for more than 10 minutes, the system will automatically shut down.

Display Interface

After activating the E-Bike system, the display will show the Riding Speed. While riding, you can change the displayed information by pressing the MODE button as follows:

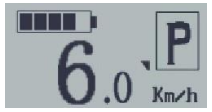
Riding Speed (Km/h) + Travel Distance (Km) + Travel Time (Hours) + Average Speed (Km/h) + Max Speed (Km/h).

Each display will be shown for 2 seconds, then automatically return to the Riding Speed interface. If the speed is 0 Km/h, the Total Distance circulation interface will be added.



Activating/Deactivating Walking Mode

To activate the walking mode, press the DOWN button for 2 seconds. The bicycle will continue at a speed of 6 km/h, and at the same time, "P" will appear on the screen. When you release the DOWN button, the walking mode function will be deactivated.



*Please note that the walking mode can only be used when pushing the bicycle. Using the walking mode when the bicycle's wheels are not in contact with the ground can pose a risk of injury.

Turning On/Off the Lights

To turn on the bicycle's headlight, press the UP button for 2 seconds. Similarly, if the UP button is pressed for 2 seconds again, the lights will turn off.

Selecting Support Level

Support level settings indicate the motor's output power. The default level is "1". The default power varies from level "0" to level "5". At level "0", the output power is zero. Level "1" represents the minimum power, while level "5" is the maximum power.

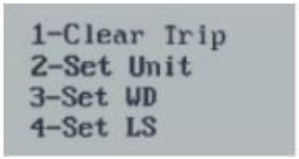
Power Indicator

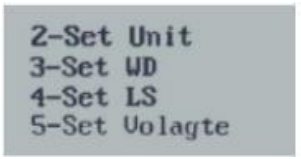
The motor's output power can be displayed on the screen.

.

General Settings

After the bicycle system is turned on, access the general settings menu by pressing the UP and DOWN buttons simultaneously for 2 seconds. Press the UP or DOWN button to select the content, and press the MODE button to confirm the settings.





Clearing Trip Distance

Clearing the trip distance means erasing a single trip's distance. To delete this value, press the UP or DOWN button to select YES or NO. The default setting is NO. If you select YES, press the MODE button to confirm the choice. "OK" will be displayed on the screen, and you will return to the general selection settings interface. Otherwise, the screen will directly return to the general selection settings interface.

5. BATTERY

Charging the Battery Installed on the Bicycle

Charge the battery using the battery charger placed on the ground or another stable surface. Ensure that the bicycle is securely positioned to prevent it from tipping over during charging.

1. Plug the charger into an electrical outlet.
2. Connect the charger plug to the battery socket or the charging port on the battery.
3. After charging, securely close the charging port cover.

BATTERY	Charging Time from 0% Battery Level			
	EC-E6000	EC-E6002	EC-E8004	
			100-127 V AC	220-240 V AC
BT-E6000 BT-E6010 BT-E8014	About 4 hours	Approximately 6.5 hours	About 3.5 hours	About 3 hours
BT-E6001 BT-E8010 BT-E8020 BT-E8035 BT-E8035-L	About 5 hours	Approximately 7.5 hours	About 4.5 hours	About 4 hours
BT-E8016 BT-E8036	Approximately 5.5 Hours	About 10 hours 12 minutes	About 5 hours 40 minutes	About 4 hours 48 minutes

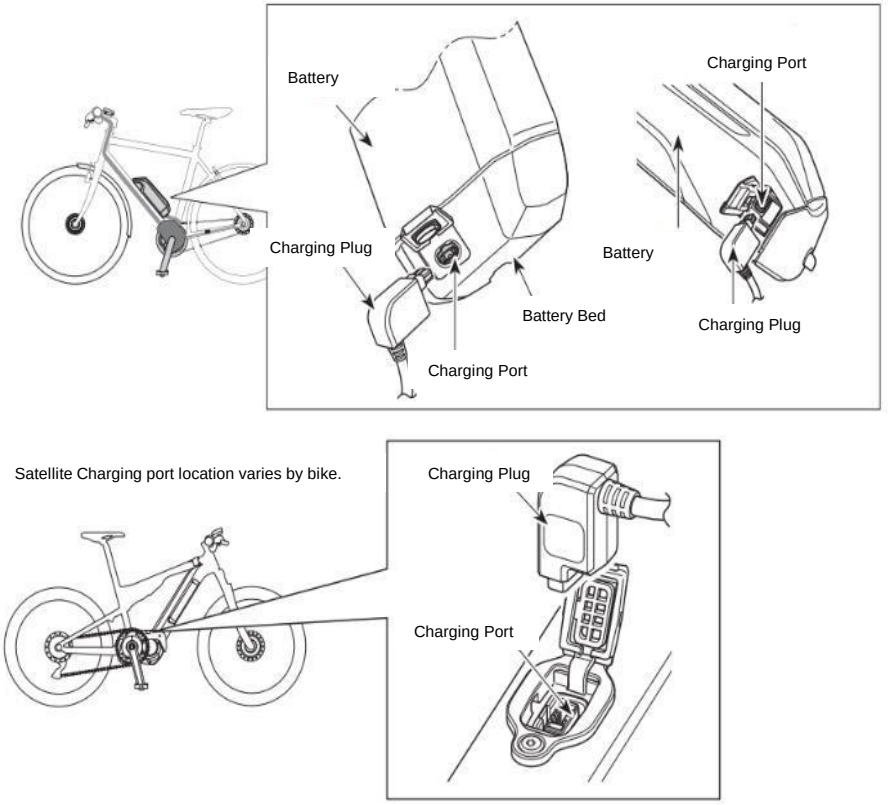


Figure 5.1

Charge Indicator LED on Charger

Once the charging process begins, the LED light on the battery charger will illuminate.

*Please note that the LED light on the charger does not turn off immediately upon completing the charge.

To check the charging status, refer to the LED light on the battery itself.

When Solid	Charging
When Flashing	Not Charging Something Wrong
When Off	• Battery removed • Fully Charged • After flashing for more then an hour

Proper Battery Usage

The charging process can be carried out at any time, regardless of the remaining battery level. Ensure that you are using the specified battery charger.

When you purchase the product, you need to charge its battery. Before riding your bike, don't forget to check that the battery is fully charged.

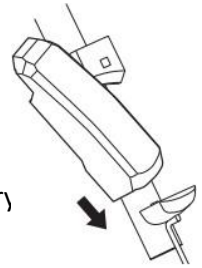
If the battery is completely depleted, recharge it as soon as possible.

If the bike won't be ridden for an extended period, store it with the battery at approximately 70% charge.

Screen	Battery Level
	%100 - 81
	%80 – 61
	%60 - 41
	%40 - 21
	%20 - 1
	%0

Installing the Battery

Harici Monte Tipi

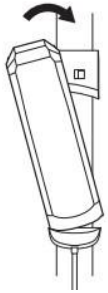


1. Insert the battery from below. Figure 5.2

• Align the concave part at the bottom of the battery with the convex part of the battery socket, and then insert the battery.

2. Slide the battery.

• Push the battery until you hear a "click."



WARNING!

During assembly, securely hold the battery, being careful not to drop it. Otherwise, components may fall, leading to breakage or injury.

Be cautious to prevent the battery from falling during the ride. Confirm that the battery is securely locked into the battery socket.

Do not ride the bicycle with the key inserted.

Before riding the bicycle, check if the charge port cap is closed.If you have more sections to translate or need further assistance, feel free to let me know.

Integrated Mount Type

1. To install the battery from the bottom, use the procedure below. Figure 5.3

- Insert the battery from the bottom.
- Slide the battery firmly until you hear a "click."

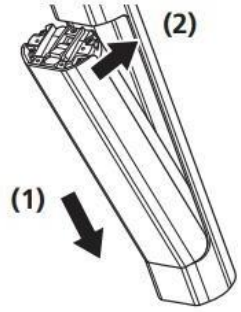


Figure 5.3

*After pushing the battery in, pull it towards yourself to ensure it locks securely in place.

Removing the Battery

When removing or carrying the battery, hold it securely, being careful not to drop it. Otherwise, components may fall, leading to breakage or injuries.

External Mount Type

1. Insert the key. To TURN OFF the power, press the power button, and then insert the key into the key cylinder in the battery compartment. See Figure 5.5.

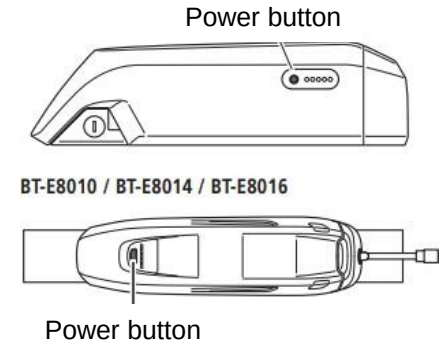


Figure 5.4

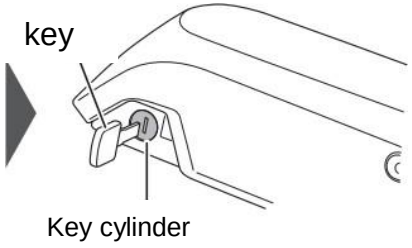


Figure 5.5

2. Unlock the battery. Turn the key until you feel it engage. See Figure 5.6.

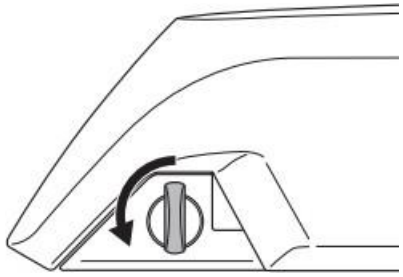


Figure 5.6

3. Remove the battery. See Figure 5.7.

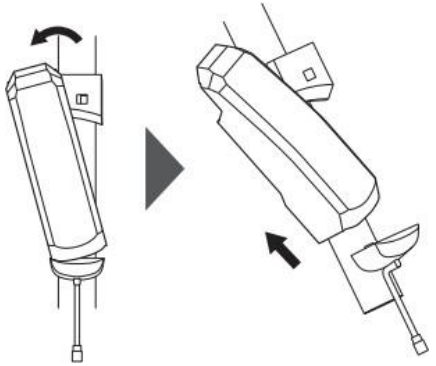


Figure 5.7

Integrated Mount Type

1. TURN OFF the power. If there is a keyhole on the head tube, open it. See Figure 5.8.
*The location and operation of the power button may vary based on the bike's design.

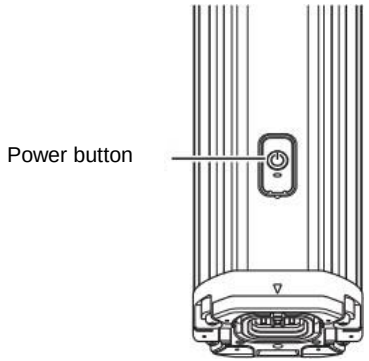


Figure 5.8

2. Unlock the battery. See Figure 5.9.

- Insert the key into the key cylinder in the battery compartment.
- Support the battery with your hand and turn the key clockwise.

The battery lock will release. The double-latch plate holds the battery in place and prevents it from falling. If the battery does not release in the designated position, turn the key to remove the battery manually.

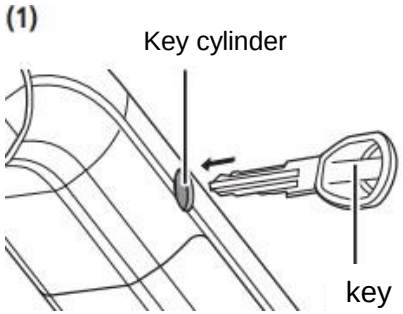


Figure 5.9

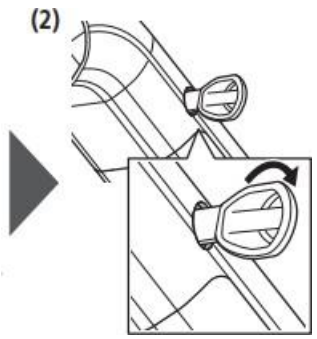


Figure 5.10

3. Remove the battery. Support the battery with your hand and push it while pressing the double-latch plate. See Figure 5.11.

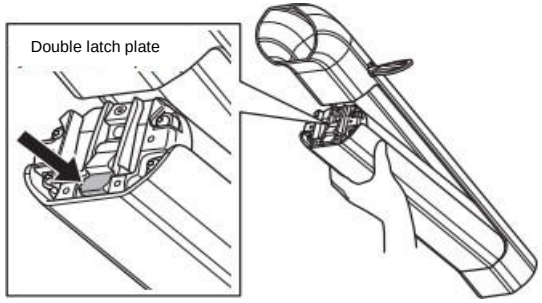


Figure 5.11

6. ERROR CODES

Warning Codes for Shimano Battery Models

Code	Screen prerequisites	Operation restrictions when displaying an alert	Solution
W011	Travel speed cannot be detected.	The maximum speed at which power assist is provided may be reduced. (Power assist is available up to 25 km/h on the top gear. provided.)	Contact your dealer or local bike shop for support to check the following: ・The speed sensor is installed in the wrong position. ・Dislocation of the magnet in the disc brake rotor.
W013	Initialization of the torque sensor did not complete successfully.	Power support may be lower than normal.	Lift your foot off the pedal and turn the power back on by pressing the battery power button.
W020	If the temperature exceeds the guaranteed operating range, the battery power output is switched off.	System functions will not start.	If it exceeds the temperature at which discharge is possible, leave the battery in a cool place out of direct sunlight until the internal temperature drops sufficiently. If below the temperature at which discharge is possible, keep the battery indoors until its internal temperature is at an appropriate temperature.
W032	The mechanical gear shifter may have been replaced by an electronic gear shifter.	The power support provided in [WALK] mode may be lower than normal. * The walking assist mode function may not be available in certain regions.	Reinstall the switcher that the system is configured to support.

Error Codes for Shimano Battery Models

Code	Screen prerequisites	Operation restrictions when displaying an alert	Solution
E010	A system error has been detected.	No power assistance is provided while driving.	Press the battery power button to turn the power back on.
E013	An anomaly has been detected in the firmware of the drive unit.	No power assistance is provided while driving.	Contact your place of purchase or bicycle dealer.
E014	The speed sensor may be installed in the wrong place.	No power assistance is provided while driving.	Contact your place of purchase or bicycle dealer.
E020	A communication error was detected between the battery and the drive unit.	No power assistance is provided while driving.	Check that the cable between the drive unit and the battery is properly connected.
E021	Battery connected to the drive unit, system standards but is not supported.	No power assistance is provided while driving.	Press the battery power button to turn the power back on.
E022	The battery connected to the drive unit does not meet system standards.	System functions will not start.	Press the battery power button to turn the power back on.
E023	Electrical fault inside the battery.	System functions will not start.	Use the battery power button to turn the power OFF and then turn the power ON again.
E024	Communication failure with the cycling system.	System functions will not start.	Make sure that the cable is not loose or improperly connected.
E025	Displayed when an original drive unit is not connected. Displayed if any of the cables are disconnected.	System functions will not start.	Connect an original battery and drive unit. Check the condition of the cables.
E030	The gearshift component installed differs from the component configured in the system.	No power assistance is provided while driving.	Contact your place of purchase or local bike dealer for support.
E043	The bike computer firmware may be partially damaged.	No power assistance is provided while driving.	Contact your place of purchase or bicycle dealer.

E Folding F2 (For VINKA System) Model Specific Error Codes

Error Code	Error Name	Status	Description	Recommendations to the User
90	Torque Zero Error	Engine does not start	Torque sensor problem	Turn the pedals backwards Turn the electrical system off and on again Contact authorized service
11	Torque Out of Range	Engine does not start	Torque sensor problem	Turn the electrical system off and on again Contact authorized service
92	Torque Sensor Error	Cadence mode passing through	Torque sensor problem	Contact authorized service
13	Shift Sensor Error	It just gives an error	Shift sensor problem	Contact authorized service
15	Speed Sensor Error	It just gives an error	Speed sensor problem	Check the settings of the speed sensor and steel magnet Contact authorized service
18	Cadence Error	Engine does not start	Cadence sensor problem	Contact authorized service
20	Pcb High Temperature Warning	Low motor output	Engine high temperature	Lower the support level Contact authorized service
A1	Pcb High Temperature Error	Engine does not start	Engine overheating	Turn off the power and allow the engine to cool down Contact authorized service
9	Pcb Sensor Error	Low motor output	Heat sensor problem	Contact authorized service
25	Engine High Temperature Warning	Low motor output	Engine high temperature	Lower the support level Contact authorized service
A6	Engine High Temperature Error	Engine does not start	Engine overheating	Turn off the power and allow the engine to cool down Contact authorized service
A7	Software Error	Engine does not start	Motor internal software error	Turn the electrical system off and on again Contact authorized service
80	Communication Loss	Engine does not start	Engine communication problem	Turn the electrical system off and on again Check the connection between the engine and the instrument display Contact authorized service

Error Code	Error Name	Status	Description	Recommendations to the User
32	LORA Communication Loss	Engine does not start	Lora communication problem	Turn the electrical system off and on again Contact authorized service
1	Communication CRC Error	Engine not running	Engine communication problem	Turn the electrical system off and on again Contact authorized service
40	Engine EST Error	Engine does not start	Engine problem	Turn the electrical system off and on again Contact authorized service
41	Motor Over Peak Current	Engine not running	Engine problem	Turn the electrical system off and on again Contact authorized service
C2	Motor Low Phase	Engine not running	Engine problem	Turn the electrical system off and on again Contact authorized service
43	Motor DC Current Overload	Engine not running	Engine problem	Turn the electrical system off and on again Contact authorized service
D0	Battery High Voltage	Engine does not start	Battery problem	Turn the electrical system off and on again Check that the battery is connected properly Contact authorized service
51	Battery Low Voltage	Engine not running	Battery problem	Turn the electrical system off and on again Charge the battery Contact authorized service
52	Battery Overcurrent	Engine not running	Engine problem	Turn the electrical system off and on again Contact authorized service
E0	Battery Version Error	Engine not running	Battery problem	Turn the electrical system off and on again Contact authorized service
E5	Instrument Display Version Error	Engine does not start	Instrument Display problem	Turn the electrical system off and on again Contact authorized service

E Folding F2 (For Bafang System) Model Specific Error Codes

Error Code	Status	Description	Recommendations to the User
21	Current Problem	Accelerator pedal or pedal assist does not work/operates erratically	The brain must be replaced
23	Engine Problem	Motor Phase Problem: The motor cable is not properly installed or the motor cable is damaged	Engine must be replaced
24	Pedal Sensor Problem	Pedal Sensor Problem: If the cable coming out of the motor is bent or the cable is damaged	Motor or motor sensor must be replaced
25	Brake Problem	The power cable from the brake lever is not fully seated or the cable is damaged	Repair the cables connected to the brake lever or replace the brake lever
26	Low Voltage	• The display screen may be incorrectly set to 48 V. • The battery may not be charged.	• The system must be changed to 36 V. • Check indicator voltage setting and battery voltage
30	Communication Problem	Brain failure or bent equipment	Check the instrument display and wiring. If the problem is not solved, the brain must be changed

7. TROUBLESHOOTING GUIDE

In Support Function Related Situations;

Symptom	Cause / Possibility	Solution
Support is not provided.	Is the battery sufficiently charged?	Check the battery charge. If the battery is low, charge it.
	Are you driving for long periods of time in summer on long-distance ramps or carrying a heavy load? The battery may have overheated.	Turn off the power, wait a while and check again.
	The drive unit, bicycle computer or assist button may be incorrectly connected, or one or more of them may be there might be a problem with too much of it.	Contact the authorized service center.
	Is the speed too high?	Check the instrument display. At speeds of 25 km/h and above, support is not provided.
Support is not provided.	Do you pedal?	A bicycle is not a motorcycle, you have to turn the pedals.
	Is the support mode set to [OFF]?	Set the support mode to [HIGH]. If you still think that the support function is not working, contact an authorized service center.
	Is system power ON?	If you have done the following and still do not feel the support, contact an authorized service center. **SC-E7000:** Press the battery power button to turn the power ON. **SC-E6100:** Press and hold the cycling computer power button or press the battery power button to turn the power ON.
Support travel distance is very short.	Depending on road conditions and gear position, the travel distance may be shorter.	Check the battery charge. If the battery is low, charge it.
	Battery performance drops in winter.	This is not a sign of a problem.
	The battery is a consumable. Repeated charging and prolonged use will cause battery degradation (loss of performance).	If the distance traveled on a single charge is too short, replace the battery with a new one.
The pedals are hard.	Are the tires inflated to adequate pressure?	Press the air using a pump.
	Is the support mode set to [OFF]?	Set the support mode to [HIGH]. If you still think that the support function is not working, contact an authorized service center.
	The battery may be weak.	After thoroughly charging the battery, check the boost level again. If you still think that the boost function is not working, contact an authorized service center.
	Was your foot on the pedal when you turned on the power?	Turn the power back on without putting pressure on the pedal. If you still think that the assist function is not working, contact your dealer.

In Battery Related Situations;

Symptom	Cause / Possibility	Solution
All five battery charge indicators remain on.	The firmware version of the drive unit may be out of date.	Consult an authorized service and check the firmware version.
The battery is draining fast.	The battery may have reached the end of its useful life.	Replace the battery with a new one.
The battery cannot be charged.	Is the charger plug securely inserted into the power outlet?	Unplug the charger from the socket, plug it back in and then repeat the charging process. If the battery is still If not, contact the authorized service center.
	Is the charging plug of the charger securely connected to the battery?	Unplug the charging plug of the charger from the socket, plug it back in and then repeat the charging process. If the battery still cannot be charged, contact an authorized service center.
	Is the charging adapter securely connected to the charging plug or battery charging port?	Connect the charging adapter securely to the charging plug or battery charging port and charge again. If the battery still does not charge, contact an authorized service center.
	Is the connection terminal for the battery charger, charging adapter or battery dirty?	Wipe the connection terminals clean with a dry cloth and then repeat the charging process. If the battery still cannot be charged, contact the authorized service center. Get on with it.
Charging does not start when the charger is connected to the battery.	The battery may have reached the end of its useful life.	Replace the battery with a new one.
The battery and charger are getting hot.	The temperature of the battery or charger may have exceeded the operating temperature range.	Stop charging, wait for a while and charge again. If the battery is too hot to touch, there may be a problem with the battery.
The charger is hot.	If the charger is used continuously to charge the batteries, it may become hot.	Wait a while before using the charger again.

In Battery Related Situations;

Symptom	Cause / Possibility	Solution
The LED on the charger is not lit.	Is the charging plug of the charger securely connected to the battery?	Before reconnecting the charging connector, check the connection for any foreign objects. If there is no change, contact authorized service.
	Is the battery fully charged?	If the battery is fully charged, the LED on the battery charger will go out, but this is not a malfunction. Unplug the charger from the socket, plug it back in and then continue charging. Repeat. If the LED on the charger is still not lit, contact an authorized service center.
Battery cannot be removed/inserted		Contact the authorized service center.
The battery is leaking.		Contact the authorized service center.
An abnormal odor may be detected.		Stop using the battery immediately and contact authorized service.
The newly installed battery is not working.	The firmware of the drive unit may not be compatible with the battery.	Contact the authorized service center to find out the compatibility status.

In Cycling Computer Related Situations;

Symptom	Cause / Possibility	Solution
When you press the battery power button The cycling computer is not displayed.	The battery charge may be insufficient.	Charge the battery and then turn the power on once more.
	Is the power on?	Press and hold the power button to turn on the power.
	Is the battery charging?	The power cannot be turned on while the battery is attached to the bicycle and charging. Stop charging.
	Is the bike computer correctly attached to the bracket?	Install the bike computer correctly, referring to the section "Installing and removing the bike computer".
	Is the power cable connector inserted correctly?	Check the connector of the electrical cable connecting the motor unit to the drive unit and remove it that it does not come out. If you are not sure, contact the authorized contact the service.
	A component that the system cannot identify may be connected.	Contact the authorized service center.
< SC-E6100 > Bicycle computer power button the system doesn't work when you hold it down.	Have you exposed the cycling computer to low temperatures for a long time?	If the cycling computer is used at low temperatures for a long period of time, the power may not turn on. Power on the battery button to turn it on. If the power still does not turn on, press the authorized contact the service.
	Is the bike computer correctly attached to the bracket?	Install the bike computer correctly, referring to the section "Installing and removing the bike computer".
Gear position is not displayed.	The gear position is only displayed when the electronic gearshift unit is fitted.	The power cable connector can be dislodged check that it does not come out. If you are not sure, contact an authorized service center.
Can the beep be turned off?		Change the setting. Refer to "[Beep] "Beep" setting".
The setup menu cannot be started while riding the bike.	This product is designed to prevent the Setup menu from starting if it detects cycling. This is not an indication of an abnormality.	Stop the bike and adjust the settings.

In Other Cases;

Symptom	Cause / Possibility	Solution
Two "beeps" are heard when pressing the button and the button cannot be operated.	The function of the button pressed is disabled.	This is not a sign of malfunction.
Three beeps are heard.	An error or warning is given.	This occurs when a warning or error is displayed on the bicycle computer. See the section "Error messages on the bicycle computer" and refer to the Follow the instructions.
There is a noise after shifting gears.		Contact your dealer.
A noise is heard coming from the rear wheel during normal driving.	The gearshift setting may not have been adjusted correctly.	**For mechanical gear shifting** Adjust the cable tension.
When you stop the bike, the gear, does not switch to the set position in initialization mode.	You may have pressed the pedals too hard.	If you press the pedals lightly, the gear changes more easily.