



VITILAN EBIKE

Operation and maintenance manual



www.vitilanebike.com



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PLEASE NOTE:

This manual is not intended as a detailed user, service, repair or maintenance manual.
Please seek assistance from a qualified technician for service, repairs or maintenance.

IMPORTANCE

When using the electric bicycle, basic safety precautions should always be followed, including the following:

1. Read all instructions.
2. To protect against fire, electric shock and injury to persons, do not immerse cord, plugs, or e-bike in water or other liquid.
3. Close supervision is necessary when the e-bike is used by or near children.
4. Unplug from outlet when not in charging and before cleaning.
5. Do not operate the e-bike with a damaged cord or plug or after the e-bike malfunctions, or has been damaged in any manner. Take the e-bike to the nearest authorized service bike shop for examination, repair or adjustment.
6. The use of accessory attachments not recommended by the e-bike manufacturer may result in fire, electric shock or injury to persons.
7. Do waterproof when using on a rainy or snowy day.
8. Do not let cord hang over the edge of table or counter, or touch hot surfaces.
9. Do not place on or near a hot gas or electric burner, or a heated oven.
10. Always attach the plug to the battery first, then plug the cord into the wall outlet.
11. Do not use the bike for other than intended use.
12. Save these instructions.

***Note that this is a general manual. VITILAN reserves the right to make changes to products and designs. The e-bike you own may not be the same style as the pictures shown in this manual.**

MODEL: V3



Specifications

- MODEL: V3
- Frame Construction: Aluminum Alloy
- Wheelbase: 1117mm
- Gear Range: 7-speed type
- Tire Size: 20" (565mm)
- Climb Grade: 30 degree
- Max load: 150kg (330 lbs)
- Max Speed: 32mph(Actual speed depends on road conditions, weather, rider weight)
- Power: 750W
- Battery Capacity: 48V 13.4Ah
- Battery Charger Input Voltage: 110/220 volt AC
- Battery Operational Temperature: 0°to 40° Celsius (32°to 104°Fahrenheit)
- Battery Life: Approximately 500 complete charge/discharge cycles

Read This First: Safety and Compliance with the Law

Congratulations on your purchasing of your new e-bike. Your new e-bike is an excellent piece of personal transportation equipment that will give you good service for many years.

Before you start using your e-bike, we want you to be aware of a few important points. Please read this section carefully.

- **Observe Laws Regarding the Use of Battery-Operated Bicycles**

Your e-bike is designed and manufactured to meet safety requirements as a battery-operated bicycle. However, state and local laws governing the use of battery-operated bicycles on public roadways, parks, and other open areas may differ. Please check with your local authority before using your e-bike in public areas.

- **Observe Laws Regarding the Use of Bicycles**

Note that all laws regarding the use of bicycles in public areas, such as those mandating the use of helmets and the use of infant seats, will automatically apply for e-bikes. Check with your local authority on what restrictions might apply.

- **The Lithium-ion Battery of Your e-Bike**

Your e-bike is equipped with the latest battery technology. The lithium-ion battery is much lighter than lead- or nickel-based batteries that are being used in some older models.

- **Your First Ride**

Please be VERY CAREFUL when you are ready to get on your e-bike for the first time because that the e-bike moves significantly faster than a regular bicycle at active power-assisted mode. Take your e-bike to an area with a lot of open space before you start. Do not start pedaling hard as soon as you get on the e-bike (as you normally would be with a regular bicycle), as the e-bike will accelerate under pedal-assist mode and you may be unprepared for the sudden increase in speed. However, after a few times, you will enjoy using the pedal-assisted function.

Assembling Your New e-Bike

If you purchased your e-bike unassembled, please follow these instructions to assemble your e-bike under the guidance of an adult or a qualified technician. Assembly is quite easy as most of the parts are already assembled; you need only to put a few pieces together to complete the job.

For more information. Please refer to the following way:

Email: support@vitilanebike.com

Facebook: Vitilanebike

Instagram: Vitilanebike

Website: www.vitilanebike.com

Youtube: Vitilanebike

Twitter: Vitilanebike

Remove the battery





● Check that the Package is Complete and Undamaged

Your e-bike comes in a carton containing the following:

- ✧ The main body of the e-bike – consisting of the frame, the front and rear wheel, the gear and chain, the front and rear brake, the battery on the frame, the rear fender.

- ✧ The handlebar subassembly with the battery's keys that attached on it – the handlebar subassembly is not really separate, as it is connected to the main body by the brake cables and electrical wires. The handlebar also has the brake levers and gear control already assembled. Additionally, the handle also has an integrated control for the throttle mode power-assisted, a display panel.

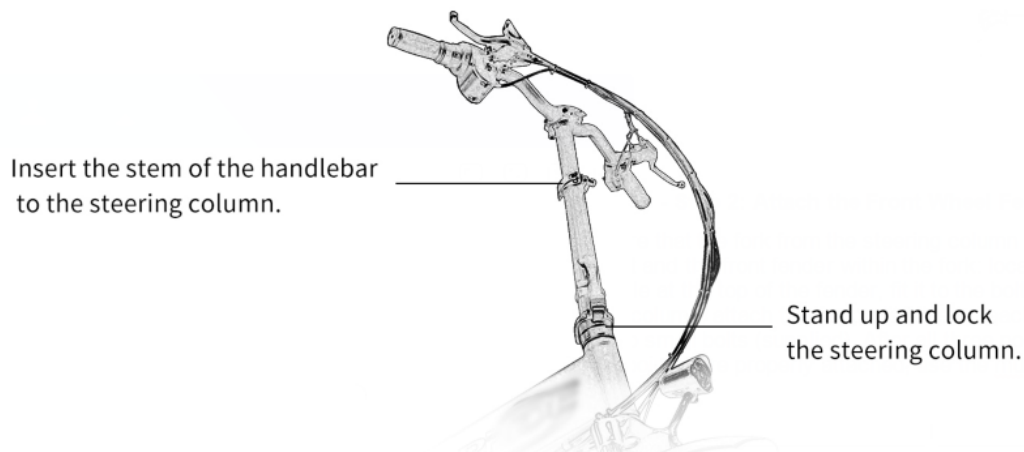
- ✧ The Seat – the seat is attached to its pedestal stem.

- ✧ Tools and other parts –tools, one charger, a pair of foot pedals and this manual, they are contained in a separate box.

- ✧ Before the bike leaves the factory, the tire pressure is about half as low. Before riding, check for adequate air pressure. Recommended air pressure for 20"x4.0" tires: **30 PSI**.

● Assembly - Step 1: Attach the handlebar subassembly

Stand the main body of the e-bike on the kickstand. Stand up and lock the steering column that is at the front of the main body frame, insert the stem of the handlebar subassembly into it. Make sure that the fork (that will hold the front wheel) is pointing forward, and orient the handlebar accordingly. Insert the stem all the way and tighten from the top using the quick lock.



● Assembly - Step 2: Installing the Seat and Pedals

Insert the pedestal stem of the seat into the seat column of the main body frame, use the built-in lever to tighten.

Attach a pedal on each side of the crank, note the distinction between left pedal and right pedal, tighten with the multi-tools.

Note the distinction: the installation of the left and right pedals



Inflate the tires to proper pressure.

At this point, your e-bike is a completely functional bicycle, although without any battery operated to function as yet. Check all tightening points to make sure. Take a short ride. Adjust the height of the handlebar, and the height and the tilt of the seat, if necessary, for maximum comfort.

● **Assembly - Step 3: Charging the Battery**

Take out the charger from the box, attached the power cord and insert that to any wall outlet. Insert the plug at the end of the smaller cable into the charging terminal of the battery and start charging. The charging terminal is on the side of the battery opposite to a hole on the side of the frame. The LED on the charger glows RED while charging and glows GREEN when charging is complete. The battery should be turned OFF while being charged. When the LED on the charger turns Green, disconnect the charging cord and cover the charging terminal with the rubber cap. If a battery is installed on the e-bike and turned ON, the display panel will show the charge level of the battery when the bike turned ON.

You are now ready to start using your e-bike.

Operating Your New e-Bike

The method to turn on the bike is:

- I. Twist the battery lock counterclockwise to the end to turn on the battery;
- II. Press power button on the left handle bar until the display lights on;
- III. Ride on the bike and twist the throttle bar or pedal the bike, the bike will move, you can change the power level with control buttons, level 1 is the slowest and level 5 is the fastest, level 0 is human model.

Your e-bike is driven by a motor embedded in the hub of the rear wheel. The motor is powered by a battery. The amount of power delivered to the motor, and hence the accelerating force on the e-bike, is controlled by you in a way according to the power-assisted mode or full power mode you choose.

You can configure the e-bike to operate in the pedal-assist-only-mode or the full power mode (should check against local laws to ensure full power mode is permitted) where you can also use the hand throttle to deliver power to the motor.

● Your First Ride

(Reprinted from the Safety and Compliance with the Law section)

Please be VERY CAREFUL when you are ready to get on your e-bike for the first time because the e-bike moves significantly faster than a regular bicycle at active power-assisted mode. Take your e-bike to an area with a lot of open space before you start. Do not start pedaling hard as soon as you get on the e-bike (as you normally would do with a regular bicycle), as the e-bike will accelerate under pedal-assist mode and you may be unprepared for the sudden increase in speed. However, after a few times, you will enjoy using the pedal-assisted function.

● Pedal-Assisted

You must turn on the battery to use the e-bike in pedal-assisted mode.

In the pedal-assisted mode, power assist is triggered when you pedal forward, and power assist stops when you stop pedaling, sometime would be delay. In other words, power assist happens as long as you pedal. You don't need to pedal hard. All you need is to apply a light force to the pedals continuously to maintain the current flow. When you apply one of the brakes, power assist will automatically stop, allowing the e-bike to slow down and stop. Power assist will turn itself off when the e-bike has reached the maximum speed that the power level you choose.

You should use the gear shifter at the handlebar to set the gears appropriately according to road conditions and pedal, as usual, you will find that you need to exert a lot less effort and the e-bike travels faster and at a more steady speed.

- **Cruise Control**

Cruise Control will be triggered when you holding thumb throttle for 8 seconds, and it will be released by braking/pedaling or throttling.

- **Thumb throttle Control**

In the hand throttle mode, amount of power assist is determined by the throttle switch controlled by your left hand. You control the throttle by twisting it from its resting position, the farther the throttle switch is from its resting position, the more power is delivered to the motor to accelerate the e-bike. When you want to slow down, you simply release the throttle and let it return to its resting position, and simultaneously apply the brakes if necessary.

You do not need to pedal the e-bike if you use the hand throttle. However, you can pedal while commanding power assist. If you do pedal to help the movement, you conserve energy and the charge in the battery will last longer.

- **Charging Your e-Bike Battery**

Your e-bike battery is a lithium-ion battery. Lithium-ion battery requires specially designed chargers. You should never charge your battery with a substitute charger that is not designed for this use. Use of an unsuitable charger to charge a lithium-ion battery will result in overheating, fire or even explosion. Ensure charger voltage is consistent with battery voltage. If your charger is lost or damaged, contact your dealer to order a replacement.

Charge your battery while the e-bike is not in use. You should turn off the battery before you charge it. You may charge your battery while it is mounted on the e-bike, or after it has been removed from the e-bike.

Do not place either the charger or the battery near flammable substances while charging is taking place. Charging should not be done in the vicinity of infants and small children. It is also prudent to remove valuable objects from the immediate vicinity of the battery while it is being charged. Don't charge in unattended condition for a long time. For the safety of you and your family, it is recommended not to charge in the middle of the night.

In order to maintain battery life, do not charge until the battery completely discharged, it is recommended to start charging when the power is less than 20 percent. If the battery will not be used for an extended period of time, charge it fully and recharge it every month. If not used for several months, the battery may be completely self-discharge and unable to charge.

The length of charging time depends on the level of charge the battery still holds. If a battery is completely discharged, it will take about 6 hours to be fully recharged. When a battery is fully charged, the LED on the charger will transition from RED to GREEN. At this point, you should disconnect the charger. Do not leave the charger

connected to the battery for a very long period of time after charging is complete.
(Leaving it connected for an overnight charging is OK.)

It is normal for the charger and the battery to be slightly hot while charging is on-going.

● **Removing the Battery from the e-Bike**

The battery is an important and costly part of the e-bike. It is designed to be locked into position with a key to preventing theft. You can take further precaution by removing the battery while the e-bike is parked unattended. You may also have a need to remove the battery from the e-bike to recharge it at a location where you cannot park your e-bike.

The method to remove the battery is:

- I. Open the cap of the charging port and fold the bike;
- II. Insert the key into the battery, hold pressing the key a bit until twist clockwise to the end (Note: You can't remove the battery until the lock bar withdraws into the battery completely);
- III. Slip off the battery, the battery is quite heavy and you should take care not to drop it.

● **Maximizing the Riding Range**

Many factors affect the rate of use of the electrical energy and the riding range.

- ✧ You should fully charge the battery before a long journey.
- ✧ Rough road conditions and hilly terrain will consume more energy.
- ✧ Frequent change of speed will consume more energy.
- ✧ Carrying more weight on the e-bike will consume more energy.
- ✧ Keeping the tires properly inflated and keeping the e-bike clean and well lubricated will save energy.
- ✧ Making sure that both wheels move freely when brakes are not applied will save energy. You should check brake adjustments frequently.
- ✧ Pedaling as you ride will consume less electrical energy and increase the riding range.
- ✧ When the battery is turned off, your e-bike functions as a regular bicycle. If you embark on a very long journey, you might want to turn off the battery for long stretches where the road is level or downhill and pedal the e-bike as a regular bicycle so that you can conserve electrical energy stored in the battery.

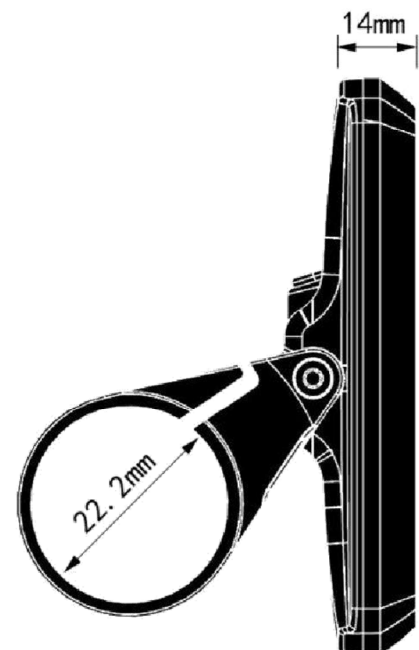
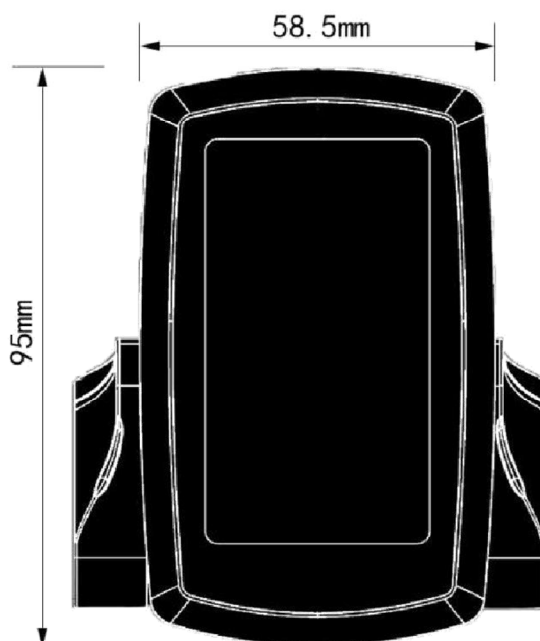
Intelligent Liquid Crystal Instrument

Specification Parameters:

- Model: YL80C.
- 24V/36V/48V power supply
- Rated working current of instrument 10mA
- The maximum working current of the instrument is 30mA
- Shutdown leakage current < 1uA
- The operating current supplied to the controller is 50mA

Note: The parameters of the display have been set by default before leaving the factory. It is not recommended to change any parameters. If the operation is wrong, the display will be abnormal. You may need to restore the default factory settings. Thanks for your understanding.

Physical Drawing and Dimensional Drawing (unit: mm)



Functional Overview and Functional Area Distribution

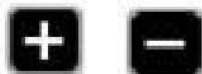
◆ Function Overview

- Electricity Display
- Motor power indication
- Boost gear adjustment and indication
- Speed display (including real-time speed, maximum speed and average speed)
- Mileage display (including single mileage and total mileage)
- Assist in implementing control and display
- Backlight control and display
- Error Code Display
- USB Connection Indication (Option)
- Heart Rate Display (Option)
- A number of parameter settings (e.g. Wheel diameter, speed limit, battery power setting and assistance parameter setting, startup password setting, controller current limit setting, etc.)
- Default parameter recovery function

◆ Functional Area Distribution



◆ Button Definition



There are five keys on the corresponding operation unit of YL80C instrument, of which the keys are replaced by the words "UP" and "DOWN" respectively in the following instructions.

General Operations

◆ Power On/Off

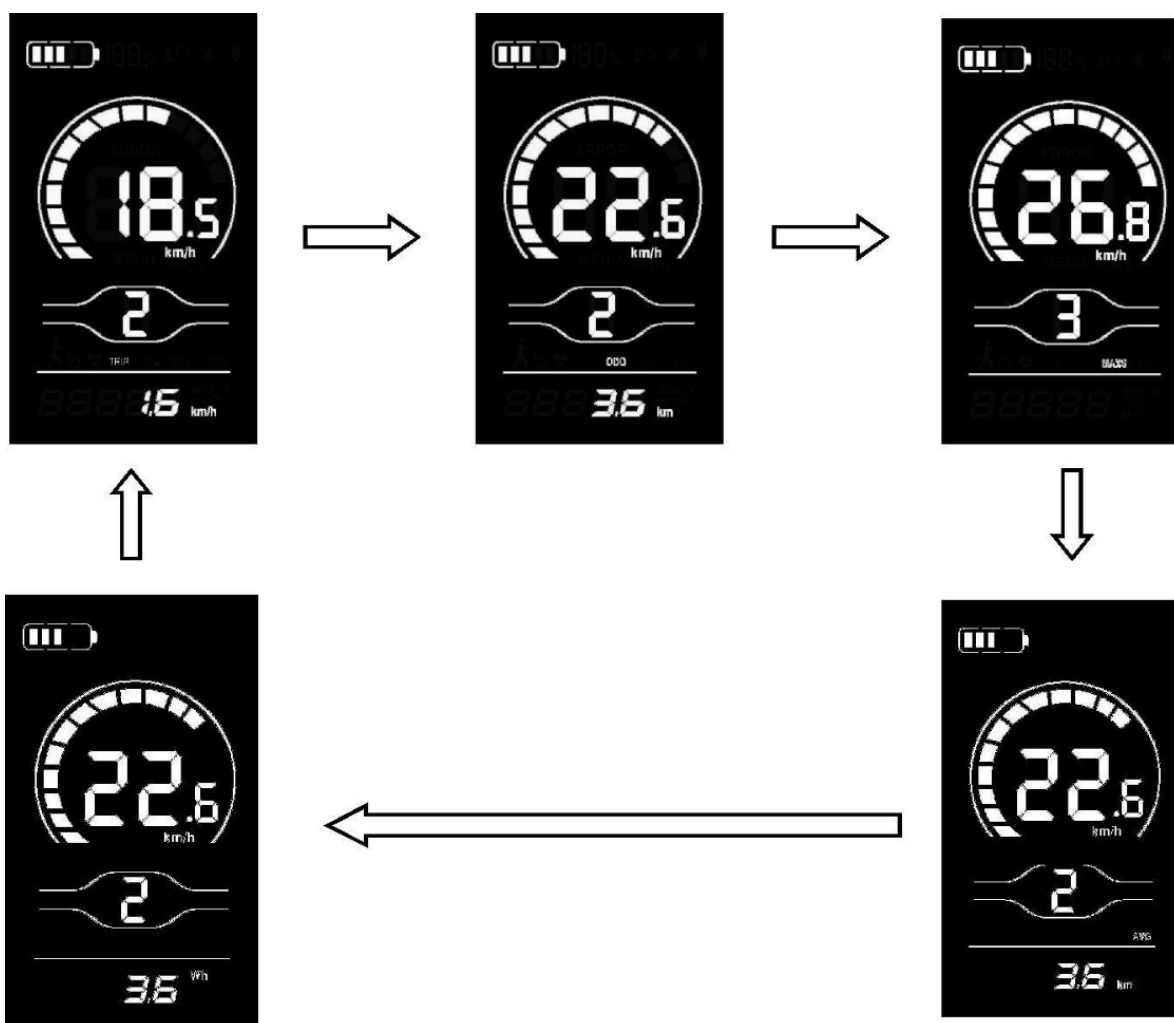


After pressing the key for a long time, the instrument starts to work and turns on the working power supply of the controller. In the startup state, the electric vehicle can be turned off by pressing the key for a short time. In the shutdown state, the instrument no longer uses the battery power supply, and the leakage current of the instrument is less than 1uA.

- If the electric vehicle is not used for more than 10 minutes, the instrument will automatically shut down.

◆ Display Interface Switching

After the instrument is turned on, the instrument displays the real-time speed and total mileage (km) by default. Press the "I" key briefly to display information switching between real-time speed (km/h), single mileage (km), total mileage (km), maximum speed (km/h), average speed (km/h) and riding power.



◆ Assist in Implementation

Press the **DOWN** button for a long time, and the electric vehicle enters the electric assistance pushing state. Electric vehicles run at a constant speed of 6 km/h. At the same time, the screen shows.



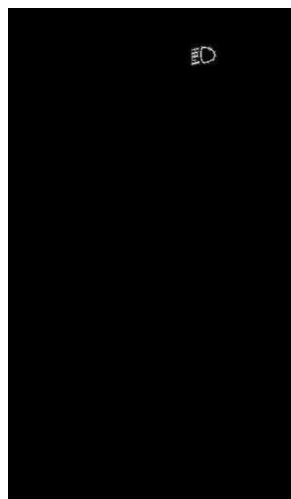
Release the **DOWN** button and the electric vehicle will immediately stop power output and return to the state before the push.



- The boosting function can only be used when the user pushes the electric vehicle, and should not be used in the riding state.

◆ Turn the Backlight On/Off

Press the headlight key briefly to dim the backlight of the instrument and notify the controller to turn on the headlight at the same time. When the external light is insufficient or driving at night, the headlights of the whole vehicle can be turned on. Press the headlight key again, the instrument backlight turns on and the controller is notified to turn off the headlight.



◆ Boost Gear Selection

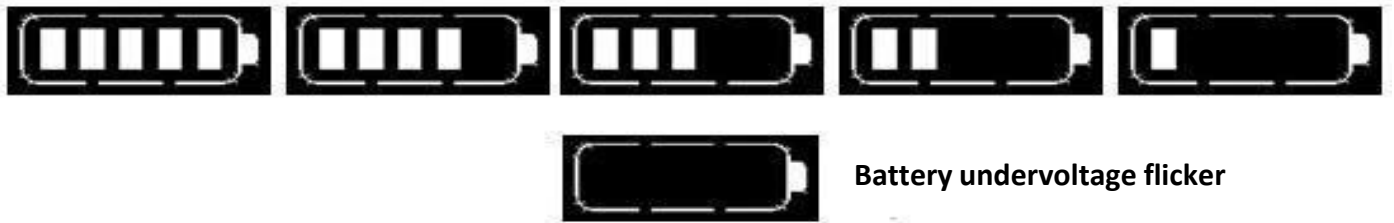
Press the **UP/DOWN** button briefly to switch the assist gear of the electric vehicle, thus changing the output power of the motor. The default output power range of the instrument is 0-5 gears, 0 gears are 0 power output, 1 gears are the lowest power,

and 5 gears are the highest power. When the 5rd gear is reached, press the **UP** button briefly again, and the interface will still display 5. The number 5 will remain unchanged, which is the highest grade. After the power downshift reaches gear 0, press the **DOWN** button briefly again, and the interface still displays 0. The number 0 remains unchanged, which is the lowest gear. The default gear for instrument startup is 1st gear.



◆ Electricity Display

The five-segment display of battery power shows that when the battery voltage is high, the five-segment LCD is on, and when the battery is under-voltage, the outer frame of the battery flashes at a frequency of 1HZ, indicating the need to charge immediately.



◆ Motor Power Indication

The output power of the motor can be known through the instrument. The display mode is shown in the following figure.



◆ Error Code Display

When the electric control system of the electric vehicle fails, the instrument will automatically display the error code. See Table 1 for the definition of the detailed error code.



- When there is an error code in the display interface, please troubleshoot the fault in time. After the fault occurs, the electric vehicle will not run normally.

General Settings

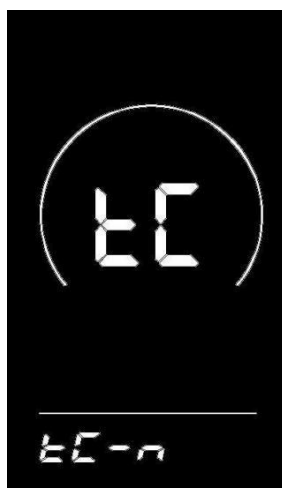
Press the key  for a long time to start the machine. In the startup state, when the vehicle is stationary, press and hold the **UP + DOWN** key for more than 2 seconds at the same time, and the instrument enters the normal setting state.

- Each setting item needs to be made with the vehicle stationary.

◆ Single Mileage Clear

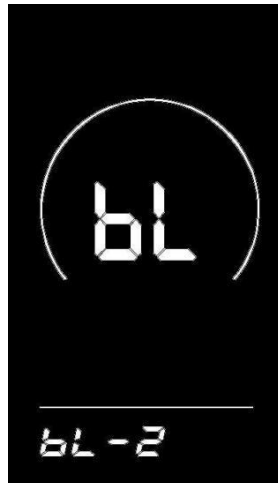
TC stands for clearing the single mileage. **Y/N** can be selected through the **UP/DOWN** key, and “**Y**” means clearing the mileage of a single ride. “**N**” means a single ride that is not cleared

Line mileage. Press the “**i**” key briefly to confirm and enter the backlight brightness setting state.



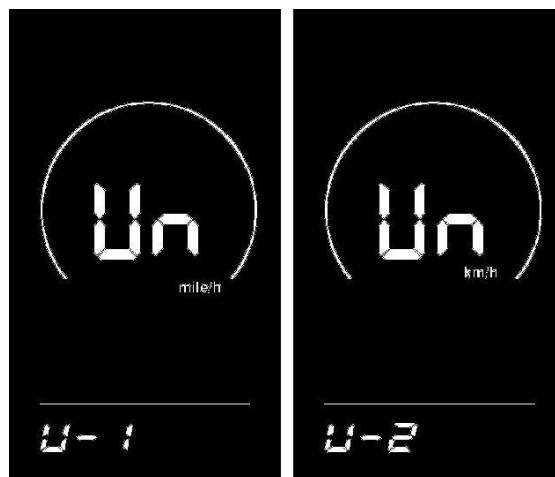
◆ Backlight Brightness

BL stands for backlight. Parameters 1, 2, 3 can be set to indicate backlight brightness, 1 is the darkest, 2 is the standard brightness, and 3 is the brightest. The default value of the instrument factory is 1. The backlight brightness parameter can be changed through the **UP/DOWN** key. Press the "i" key for a short time to confirm and enter the metric-imperial unit conversion setting state, and press the "i" key for a long time to confirm and exit the normal setting state.



◆ Conversion of Imperial and Metric Units

U for units, 1 for imperial system and 2 for metric system. Speed and mileage units can be converted through **UP/DOWN** key, short press "i" key to confirm, long press "i" key to confirm and exit the normal setting state. The default unit of the instrument is metric.

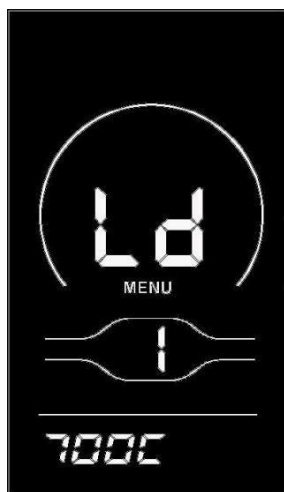


General Parameter Settings

Press and hold the **UP + DOWN** key for more than 2 seconds At the same time to enter the normal setting state. Press and hold the **DOWN + i** key for more than 2 seconds at the same time to enter the wheel diameter setting interface.

◆ Wheel Diameter Settings

Ld represents the wheel diameter and can be set at 8-26, 700C, 28-30. Select the corresponding wheel diameter of the vehicle through **UP/DOWN** key to ensure the accuracy of instrument speed display and mileage display. The default wheel diameter value of the instrument factory is 26inch. Press the "i" key briefly to enter the speed limit setting interface.



◆ Speed Limit Settings

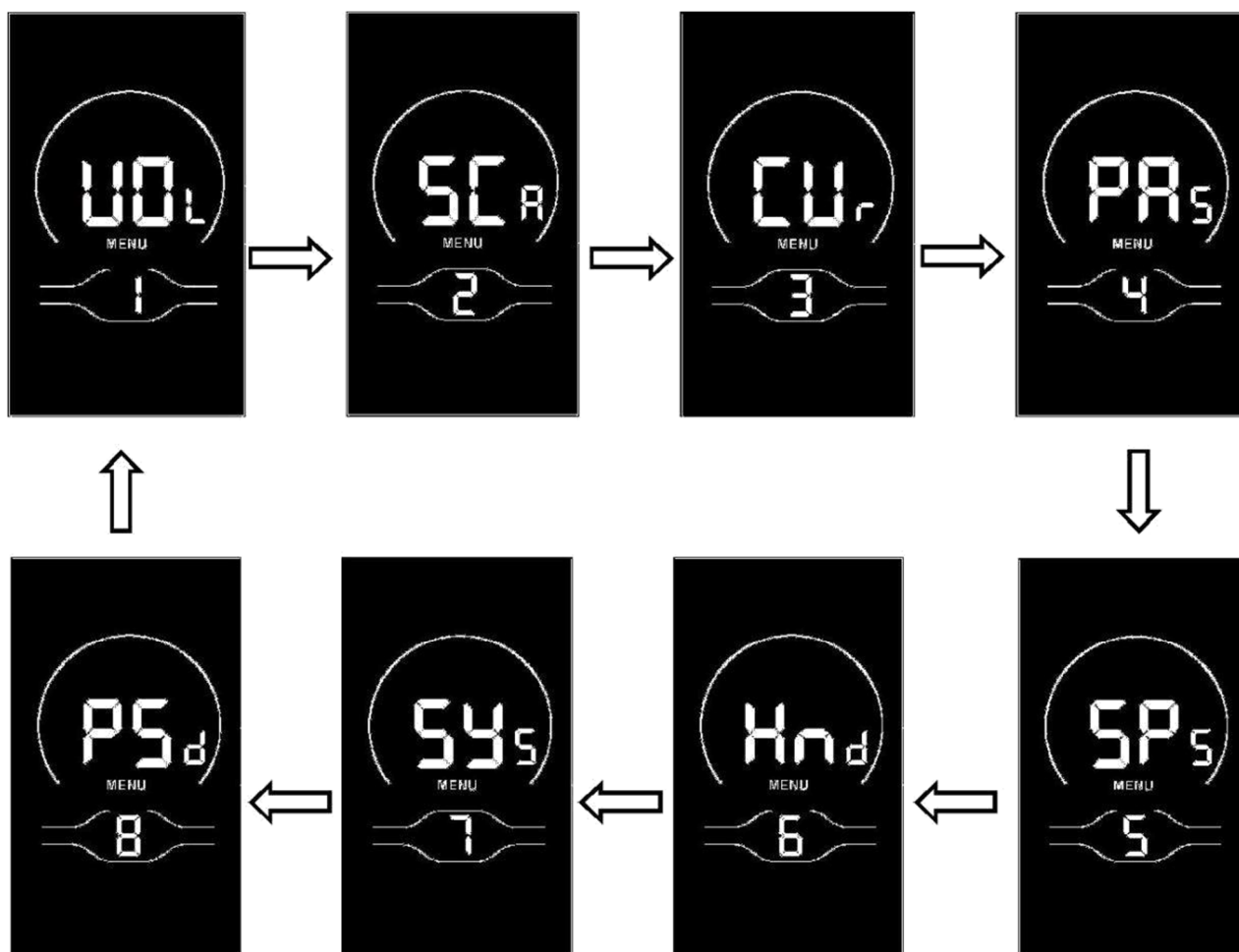
The default value of the highest riding speed of the instrument leaving the factory is 50Km/h. Changing this value can set the highest riding speed of the electric vehicle. When the electric power exceeds the set value, the controller will stop supplying power to the motor to protect the riding safety. LS indicates the speed limit. The optional range of the maximum speed setting value is between 12Km/h and 50Km/h, which can be added/subtracted through **UP/DOWN** key. Press the "i" key for a long time to confirm and exit the setting state



Personalization

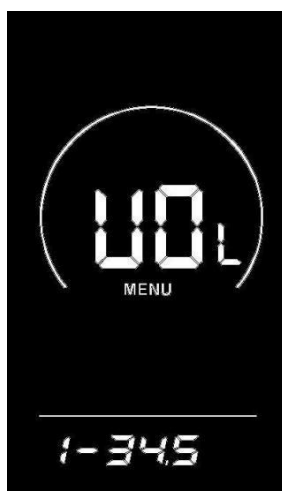
In order to meet the personalized use requirements of customers, personalized settings are set up, including the battery power setting, power parameter setting, current limit value setting, power sensor setting, speed sensor setting, handle function setting, system setting and startup password setting of the instrument, with a total of eight settings. At the same time, press and hold the **UP + DOWN** key for more than 2 seconds to lift it to enter the normal setting state; Press and hold the **UP + DOWN** key again for more than 2 seconds at the same time to enter the instrument personalization item selection interface;

Select the content to be set through **UP/DOWN**, and press "i" to enter the corresponding setting interface.



◆ Battery Charge Setting

VOL represents voltage and requires 1 to 5 voltage values to be input one by one. Take the first electric quantity value as an example: "1" in the screen represents the first voltage and "34.5" is the first electric quantity value. Add/subtract settings are made through **UP/DOWN** key, press "i" key briefly to confirm and enter the next electric quantity setting interface; After the 5 electric quantity values are set, press the "i" key for a long time to confirm and return to the instrument setting item selection interface.



◆ Assist Parameter Setting (Option)

Boost Gear Selection

Eight modes are provided in the booster gear selection: 0-3, 1-3, 0-5, 1-5, 0-7, 1-7, 0-9, 1-9; Through **UP/DOWN** switching, press the "i" key briefly to confirm and enter the assistance proportion value setting interface in the corresponding mode. The instrument default mode is 0-5.



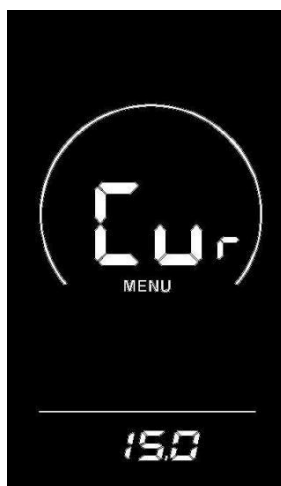
◆ Assist Proportion Value Setting

By setting the value of the assistance ratio, the speed of each gear can be adjusted to meet the needs of different riders. Take 1st gear as an example, "45-55%" is the range of 1st gear assistance ratio, and "50%" is the default value of 1st gear, which is a settable value. Add/subtract settings are made through **UP/DOWN** key. Press "i" key briefly to confirm and enter the next assistance ratio setting, up to 9 can be set. After the setting is completed, press "i" key long to confirm and return to the instrument setting item selection interface. Please refer to Schedule 2 for details.



◆ Current Limit Value Setting (Option)

CUR represents current limit, which can be set in the range of 7.0-25.0 A, and the maximum current value of the controller can be changed through **UP/DOWN** key. Press the "i" key for a long time to confirm and return to the instrument setting item selection interface.



◆ Boost Sensor Settings (Option)

Direction Setting of Assist Sensor

PAS stands for the booster sensor, and **run-F/b** is displayed on the screen. **run-F** stands for the forward direction and **run-b** stands for the reverse direction; Through the **UP/DOWN** key, press the "i" key briefly to confirm and enter the sensitivity setting of the power sensor. The factory default value of the instrument is forward.



◆ Assist Sensor Sensitivity Setting

SCN is displayed on the screen, which represents the sensitivity of the booster sensor. The setting range is 2-9, where 2 indicates the highest sensitivity and 9 indicates the lowest sensitivity; Add/subtract settings through **UP/DOWN** key, press "i" key briefly to confirm and enter the power sensor proportional parameter setting interface. The factory default value of the instrument is 2.



◆ Setting of Magnetic Steel Number of Helper Disk

N-Represents the number of magnetic steels on the booster disk. The corresponding number of magnetic steels on the booster disk can be selected through the **UP/DOWN** key. Press the "i" key briefly to confirm and enter the booster sensor setting interface. The default number of disk magnets is 12.



◆ Speed Sensor Settings (Option)

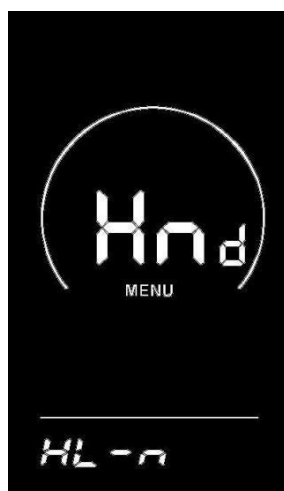
SPS represents a speed sensor, which can be set according to the number of magnetic heads installed on the wheels of the electric vehicle, with a setting range of 1-15; Modify by pressing **UP/DOWN** key for a short time, press "i" key for a long time to confirm and return to the instrument setting item selection interface. The factory default value of the instrument is 1.



◆ Turn Band Function Settings (Options)

Turn Handle Assisted Push Enable Setting

Hnd means the rotary handle, **HL** means the rotary handle assists in pushing, **HL-N** means the rotary handle has no assist in pushing function, and **HL-Y** means the rotary handle has assist in pushing function. When the rotary handle is turned, the instrument enters the assist in pushing mode; You can switch **Y/N** through **UP/DOWN** key, press "i" key briefly to confirm, if **N** is selected, you will enter the turning handle gear enable setting interface; Otherwise, return to the instrument setting item selection interface. The factory default value of the instrument is **N**.



◆ Rotary Handle Gear Enable Setting

HF-Y means that the rotating handle is divided into gears, **HF-N** means that the rotating handle is not divided into gears. If the rotating handle is selected to be divided into gears, it means that when the rotating handle is rotated, the maximum speed can only reach the corresponding speed corresponding to the gear displayed on the instrument. If the rotating handle is selected not to be divided into gears, it means that when rotating the rotating handle, it is not limited by the gears displayed on the instrument and can reach the rated maximum speed. **Y/N** can be set through the **UP/DOWN** key, and the "i" key is briefly pressed to confirm and return to the enabling setting interface for the rotary handle to assist in pushing. Press the "i" key for a long time to confirm and return to the instrument setting item selection interface. The factory default value of the instrument is **N**.

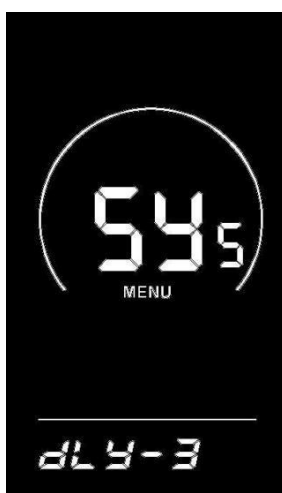


◆ System Settings (Options)

Electricity Delay Time Setting

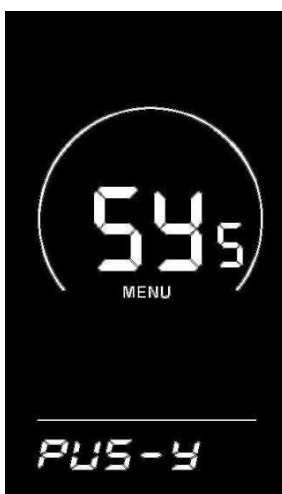
dLY represents the power delay time, and the power delay time of 3/6/12s can be selected through **UP/DOWN** key.

Press the "i" key briefly to confirm and enter the maximum speed limit setting interface. The instrument factory defaults to 3s.



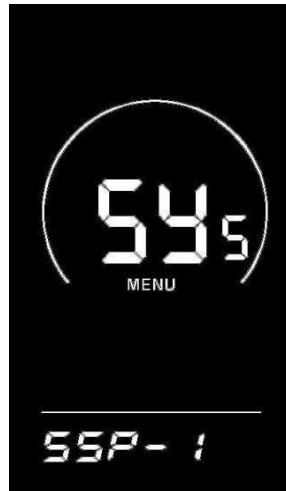
◆ Key Assisted Push Enable Settings

PUS represents the push enable of the key, **Y/N** can be switched through the **UP/DOWN** key, **Y** represents the enable, and **N** represents the non-enable; Press the "i" key briefly to confirm and enter the assist push speed setting. The factory default value of the instrument is **Y**.



◆ Slow Start Settings

SSP stands for slow start, with an adjustable range of 1-4, and 4 stands for the slowest. You can select through the **UP/DOWN** key, press the "i" key for a long time to confirm and exit the setting. Instrument factory default 1.



◆ Boot Password Settings

Press the "i" key to enter the password setting state, and the screen prompts "P2" to indicate the boot password. Press the "i" key to shift, add/subtract the input value through the **UP/DOWN** key, and press the "i" key to confirm after the 4- digit password is input. If the password is correct, enter the boot password enable setting interface, otherwise stay in the password input state. The default boot password is 1212.



◆ Boot Password Enable

After inputting the password, enter the password enable interface, and select **Y/N** through the **UP/DOWN** key. **Y** indicates that the boot password is required and **N** indicates that the boot password is not required.

Press the "i" key briefly to confirm. If **Y** is selected, press the "i" key briefly to enter the password modification state, otherwise exit the password setting and return to the instrument setting item selection interface.

The default of instrument factory is **N**.



◆ Switch-on Password Modification

The instrument displays P3. Press the "i" key briefly to shift, and add/subtract the input value through the **UP/DOWN** key. After modification, press the "i" key for a long time to save and confirm, and exit the setting interface. Restarting the instrument will display P1, 0000, and the instrument will not work normally until the correct password is entered.



◆ Exit Settings

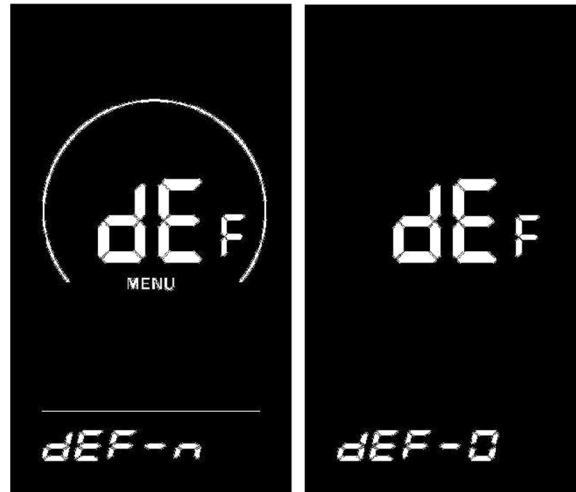
In the setting state, pressing the "i" key briefly (within 2 seconds) is to confirm the input and save the current setting; Press the "i" key for more than 2 seconds to confirm the saving of the current setting and exit the current setting state; Press the **DOWN** key for more than 2 seconds to cancel the current operation and exit the setting, and do not save the current setting data.

■ No operation is carried out within one minute, and the instrument automatically exits the setting state.

◆ Restore Default Settings

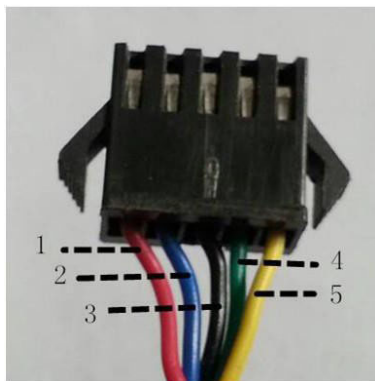
dEF stands for restoring the default parameters, Press and hold the **UP + i** key for more than 2 seconds at the same time under the normal display interface, You can enter the interface of restoring default parameters. Switch **Y/N** through **UP/DOWN** key. **Y** indicates that the default parameters need to be restored and **N** indicates that the default parameters do not need to be restored. If **Y** is selected, the instrument will

automatically start restoring the default settings and display **dEF-00** after pressing the "i" key for more than 2 seconds for confirmation. After restoring the default, it will automatically exit and return to the normal display interface.

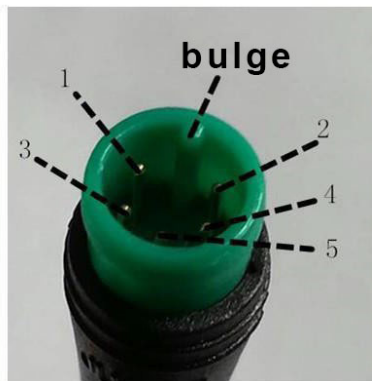


◆ Lead Connection Diagram

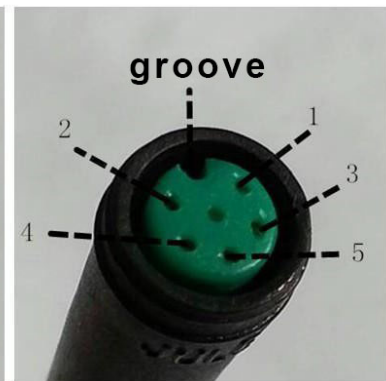
Standard connector wire sequence



Connecting end
with Controller



Instrument Outlet End



Switch Wiring

Table: Standard Connector Line Sequence Table

Line	Color	Functions
1	Red (VCC)	+
2	Blue(Kp)	Lock
3	Black(GND)	-
4	Green(RX)	RX
5	Yellow(TX)	TX

■ The leads of some products use waterproof connectors, and users cannot see the color of the leads in the wiring harness.

◆ Precautions

- ◆ Pay attention to safety during use, and do not plug and unplug the instrument under the condition of power supply.
- ◆ Try to avoid bumping on the instrument.
- ◆ Regarding the background parameter setting of the instrument, please do not change it at will, otherwise normal riding cannot be guaranteed.
- ◆ When the instrument cannot be used normally, it should be sent for repair as soon as possible.

Schedule 1: Error Code Definition Table

Error Code	Definition
21	Current Abnormality
22	Throttle Abnormality
23	Motor Abnormality
24	Motor Hall Signal Abnormality
25	Brake Abnormality
30	Communication Abnormality

Schedule 2: Boost Gear Proportion Default Value Table

Level Level selection	1	2	3	4	5	6	7	8	9
0-3/1-3	50%	74%	92%	—	—	—	—	—	—
0-5/ 1-5	20%	40%	60%	80%	100%	—	—	—	—
0-7/ 1-7	40%	50%	60%	70%	80%	90%	96%	—	—
0-9/ 1-9	25%	34%	43%	52%	61%	70%	79%	88%	96%

The parameters are for reference only, the actual default parameters are subject to the default settings of the display parameters. Depends on the factory settings of the display.

Care and Maintenance for Your New e-Bike

You should, in general, take care of your e-bike the way you would with a regular bicycle by keeping it dry, clean and the moving parts well lubricated. You should also avoid parking your e-bike in exposed areas whenever possible.

You should check the effectiveness of the brakes before each use.

● For your e-Bike, you should also take note of the following:

- ✧ Your e-bike is designed for regular country road use for a single person. Using your e-bike for extreme maneuvers, such as extreme off-road use, jumping, or carrying the excessive load will damage the e-bike and could cause serious injury.
- ✧ Do not use high-pressure water streams to clean your e-bike, as water might seep inside the motor or the wiring compartment and cause rusting of electrical parts or short circuits.
- ✧ Avoid parking your e-bike outside when there is rain or snow. At the end of a trip where there was rain or snow, bring the e-bike inside and use a clean, dry towel to eliminate any wetness.
- ✧ Be sure you do not lose both keys and remote controls. If you lost one key, you should immediately make a copy as a back-up. If you lost both keys, you will be unable to remove the battery from the e-bike. If you lost both remote controls, you can't turn on the bike.

● Special Care for the Battery and the Charger

- ✧ Use only the supplied charger to charge your battery. Do not use an unauthorized substitute. If your charger is lost or damaged, contact your dealer to order a replacement.
 - ✧ Do not open or alter the battery or the battery charger.
 - ✧ Do not place the battery near fire or corrosive substances. Do not immerse in water or other liquids.
 - ✧ Avoid subjecting the battery from high temperatures, such as directly under the hot sun, for prolonged periods of time.
 - ✧ Do not connect (short circuit) the two poles of the battery.
 - ✧ After much use, your battery's charge holding capacity will decrease. If you find that your battery does not hold sufficient charge even for short trips, you should contact your dealer to order a replacement. Under normal use, the battery will undergo 500 charging and discharging cycles.
 - ✧ If the battery will not be used for an extended period of time, charge it fully and recharge it every month. Store it in a cool place.
- ² Your e-bike battery is engineered with precision for high capacity and long useful life. We do not recommend that you use it to power other electrical devices. Improper use of the battery will damage the battery and shorten its useful life and may cause a fire or an explosion.

Safety

These safety precautions are provided for your benefit to protect you and those around you. Please read and follow them carefully to avoid unnecessary injury, damage to the product, or damage to other property.

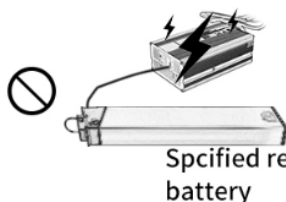
Battery

⚠ CAUTION

- Do not throw the battery into a fire. Do not overheat the battery.



- Do not connect the battery to other appliances other than your battery.



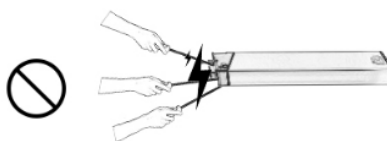
- Use only the specified charger to charge the battery.



- Do not take apart or modify the battery.



- Do not connect positive and negative terminals by using metallic objects.



(Electrolyte leakage, overheating and/or rupture may result in this type of abuse.)

Battery Charger

⚠ CAUTION

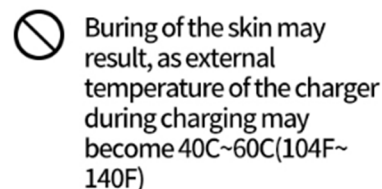
- Do not take apart or modify the charger



- Do not subject the charger to shocks, e.g. by dropping. Keep the charger away from water

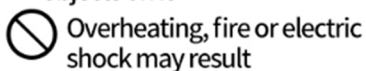


- Do not touch the charger with your skin for long periods during charging

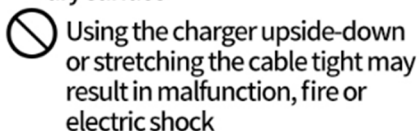


Overheating, fire or electric shock may result

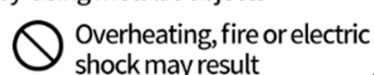
- Do not cover the charger or place objects on it



- Place the charger firmly on a flat dry surface



- Do not short-circuit the terminals by using metallic objects



⚠ WARNING

- Keep the battery away from water. Pouring water on the battery may result in short-circuit, overheating or permanent damage of the battery.
- Do not submerge the battery. Soaking the battery in water may cause irreparable damage.

⚠ WARNING

- Do not apply pressure to the cable or the plug.
 - ⊘ Placing the cable tightened between a wall and a window frame, or placing heavy objects on the cord or the plug may result in electric shock or fire.
- Be sure to insert the plug securely into a wall socket.
 - ⊘ Electric shock and overheating may result, causing fire.
- Do not touch the plug with wet hands.
 - ⊘ Electric shock may result.
- Keep out of reach of children or pets.
 - ⊘ Electric shock or injury may result.
- Do not attempt to use another maker or model's charger to charge the battery.
 - ⊘ Overheating, fire or electric shock may result.
- Do not use the charging plug and/or the power source Plug when they are dirty, wet or dusty.
 - ⊘ Insulation failure due to moisture absorbed in the dust may result, causing fire.

Pull out the power source plug and clean it with a dry cloth.
- To remove a cable from a socket, pull the plug, not the cable.
 - ⊘ Always pull the charging cable gently.
- Do not rotate the pedals when charging the battery while it is mounted on the bicycle.
 - ⊘ The cord may twist around the pedal or the crank, and the damage to the plug may result, causing electric shock or fire.
- Do not apply voltage over the rated value to the charger.
 - ⊘ Do not use sockets, correctors and other wiring devices with a power source other than standard rated voltage (AC110-240 volts) power supply.
 - Overheating, fire or electric shock may result.
- Do not use damaged components such as charge case, power cord, plug etc.
 - Electric short, short-circuit or fire may result.

Trouble Shooting

As one or more causes of failure might lead to the failure phenomenon, you should find out the true cause(s) and then take the appropriate solution(s) to rectify the problem. In case of doubt, please consult a qualified technician for service, repairs or maintenance.

Failure Phenomena	Causes of Failure	Solutions
Can't turn on the e-bike	- Battery is off - The Battery is out of power - Battery aging or damaged - Poor contact of display line - Failure of controller - Failure of switch	- Turn on the battery - Fully charge the battery - Replace the battery - Reconnect the display - Replace the controller - Replace the switch
- Pedal assist doesn't work - Gear doesn't work well - Brake doesn't work well - Display doesn't light on	- Failure of speed sensor - Rear derailleur mismatch - Brake caliper mismatch - Brake Disc is bent - Poor contact of display line	- replace speed sensor - Adjust rear derailleur - Adjust brake caliper or disc - Reconnect the display line
- Can't adjust the speed - Speed is less than 10km/h	- Battery's voltage is too low - Throttle governing bar is damaged - Poor contact of the controlling line - Spring failure or being locked	- Fully charge the battery - Replace the throttle governing bar - Replace the spring
e-Bike's mileage is obviously inadequate after fully charged	- Inadequate tire pressure - Failure of charger - The battery cannot be fully charged - Failure of controller - Battery aging or battery damaged - e-Bike has not been well assembled - Too much upgrade road - Strong wind - Bad road - Overweight - Too many braking times - Temperature is too low	- Inflate tire with appropriate air pressure - Repair the charger - Examine and repair the controller - Replace the controller - Replace the battery - Re-adjust the e-Bike - Boost the e-Bike by manpower - Warm the battery above 0°C (32°F)
Wheel hub stop running after switching on the power	- The connection of battery is loosen. - Poor contact of controlling line - The connection of wheel hub is loose or damaged - The protective board of the battery is broken	- Re-connect the battery - Replace the connection line - Replace the battery's protective board with a new one



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