E-bike Display

User's Manual

KD718

Contents

Product name and model

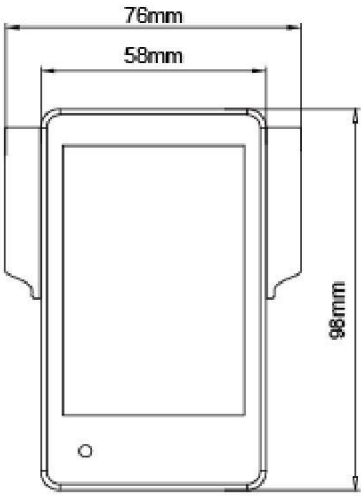
E-bike Intelligent LCD display
Model: KD718

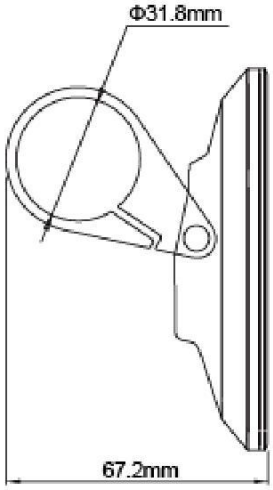
Specifications

- ●24V/36V/48V Power Supply
- ●Rated working current: 10mA
- ●The maximum working current: 30mA
- ●Off-state leakage current: <1μA
- ●Operating temperature: -20℃~ 60℃
- ●Storage temperature: -30℃~ 70℃

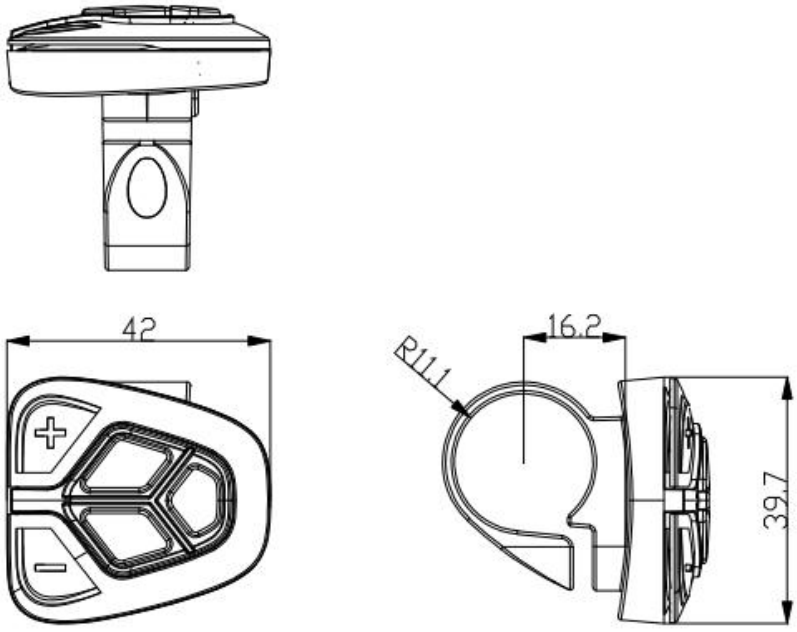
Appearance and Size

Product appearance and dimensional drawing (unit: mm)





Remote appearance and dimensional drawing (unit: mm)



Function Summary

KD718 has many functions to meet users' various cycling needs, the indicating contents are as follows:

- ●Battery and battery percentage
- ●Motor Power
- ●assist-level
- ●Speed indication (incl. current speed, Max. speed and Ave. speed)
- ●ODO and trip distance
- ●The push-assist function
- ●Trip time
- ●Backlight On/Off
- ●Error code indication
- ●Pedaling frequency indication (optional)
- ●USB connection indicator (optional)
- ●The remaining range indication (optional)
- ●Various Parameters Settings (*e.g., wheel size, speed-limited, battery level bar, assist level, controller limited current, password enable, etc.)*
- ●Recover Default Settings

General Operation

◆Switching the E-bike System On/Off

Press the power button to switch on the E-bike system and provide the power supply to the controller.

To hold the power button for 2s, the E-bike system will be switched off .The E-bike system no longer use the battery power.

When E-bike system is switched off, the leakage current is less than 1 μA.

■When the E-bike is parked for more than 10 minutes, the E-bike system will be switched off automatically.

◆Display Interface

After you switch on the E-bike system, the display will show current Speed and Trip Distance by default.

Press "i" button and show more riding data as follows:

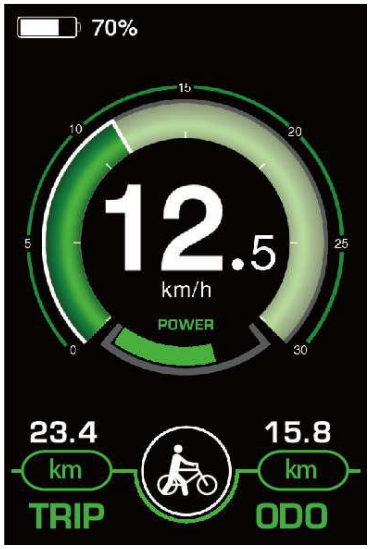
Trip Distance (Km) →Total Distance (Km) →Max. Speed (Km/h) → Ave. Speed (Km/h) →Trip Time (Min.).

Display interface

◆Switching Push-assist Mode On/Off

To activate the push-assist function, press and hold the "-" button. After 2 seconds, E-bike is activated to go at a uniform speed of 6 Km/h while the screen displays

The push-assist function is switched off as soon as you release the "-" button. The E-bike system stops the power output immediately.



Push-assist Mode

■Push-assist function may only be used when pushing the E-bike. Be aware of danger of injury when bike wheels do not have ground contact while using the push-assist function.

◆Switching the Lighting On/Off

To switch on E-bike headlight, hold the “” button for 2s. The display backlight brightness is automatically reduced. Likewise, press the “” button for 2sagain, the bike light can be switched off and display backlight recover its brightness.

Switching the Lighting On/Off Interface

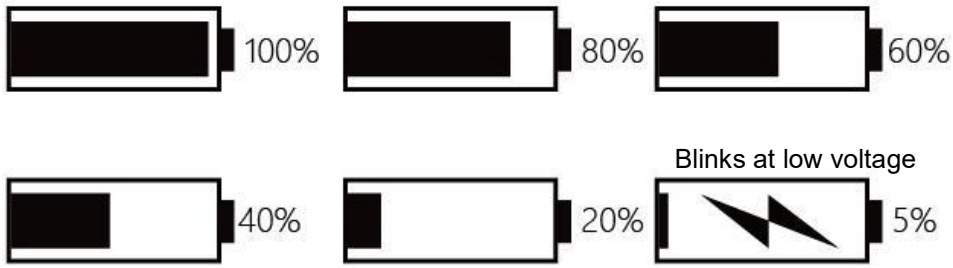
◆Assist Level Selection

Press "+" or "-" button to change the E-bike system assist level and change the motor output power, The default assist level ranges from level “0”to level “5”, The output power is zero on Level “0”. Level “1” is the minimum power. Level “5” is the maximum power. When you reach “5”, press the "+" button again, the interface still shows “5”, and blinks at“5”to indicate the power maximum. After the power downshift reaches “0”, press the "-" button again, the interface still shows “0”and blinks at “0” to indicate the power minimum. The default value is level “1”.

Assist Level Change Interface

◆Battery Indicator

The five battery bars represent the capacity of the battery. The five battery bars are bright when the battery is in high voltage. When the battery is in low voltage, battery frame will blink at the frequency of 1HZ to give a notice that the battery needs to be recharged immediately.



Battery Indicator

◆Motor Power Indicator

The motor power can be seen via the interface below.

Motor Power Indication Interface

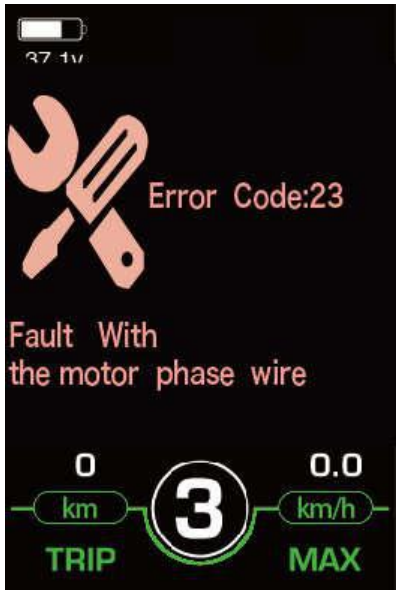
◆USB connection indication (optional)

When a USB external device is inserted into the display, the USB connection indication is shown as follows:

USB Connection Indication Interface

◆Error Code Indication

The components of the E-bike system are continuously and automatically monitored. When an error is detected, the respective error code is indicated in text indication area. Refer to detailed definition of the error code in **Attached list 1**.



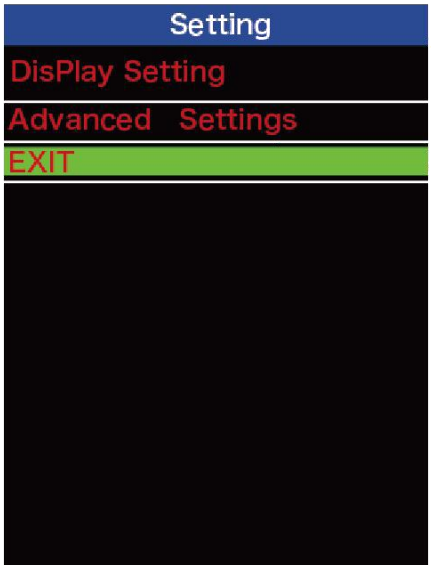
Error Code Indication

■Make the display repaired when an error code appears. Or else, you will not be able to ride the bike normally.

General Settings (DisPlay Setting)

Press the power button to switch on the display.

To access general settings (DisPlay Setting), hold both the “+” button and the “-” button simultaneously for 2s.



Setting interface

■All the Settings are operated in the case of a parked E-bike.

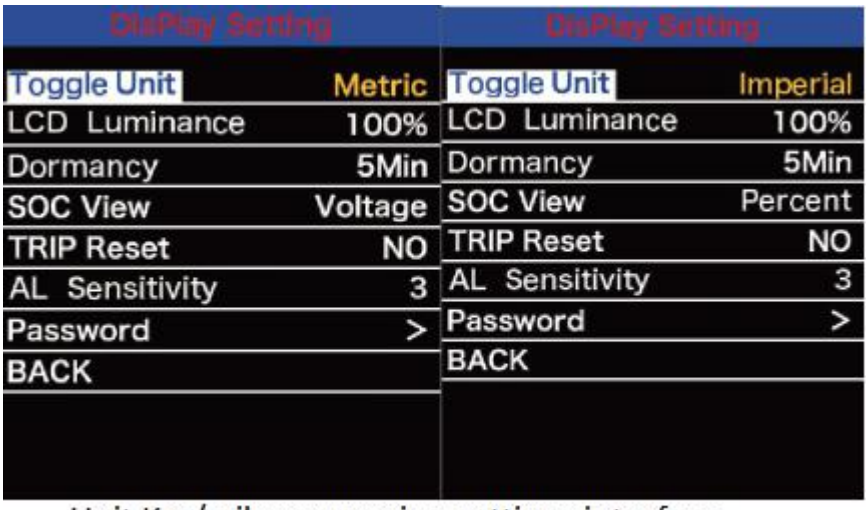
◆Unit km/mile Conversion

Toggle Unit represents unit settings.

To convert unit, press the "+" button or the "-" button to choose the desired setting item, and then press the "i" button to confirm.

To store a changed setting, press the "i" button and move to other setting items.

The default value is "Metric(km)".



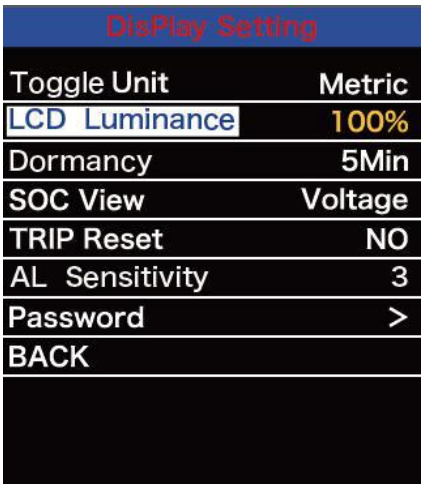
Unit Km/mile conversion settings interface

◆Backlight Brightness Settings

LCD Luminance represents backlight brightness. 100% is the highest brightness. The less the percentage is, the lower the backlight brightness is.

To modify the backlight brightness, press the “+” button or the “-” button to choose the desired percentage.

To store a changed setting, press the “i” button to or long press i button and exit the general settings.



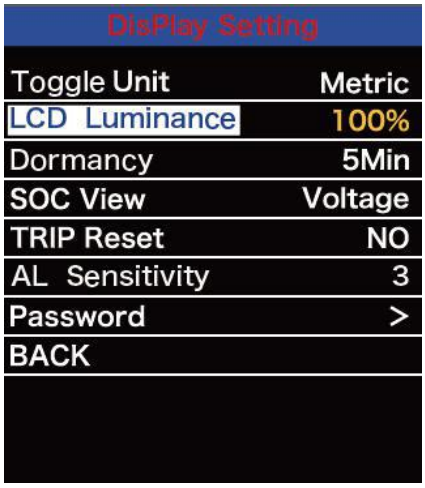
Backlight Brightness Settings Interface

◆Auto-off Time Settings

Dormancy represents display auto-off time settings.

To change display automatic shutdown time, press Dormancy and press “+” button or “-” button to choose the desired duration. The default auto-off time is 5 minutes.

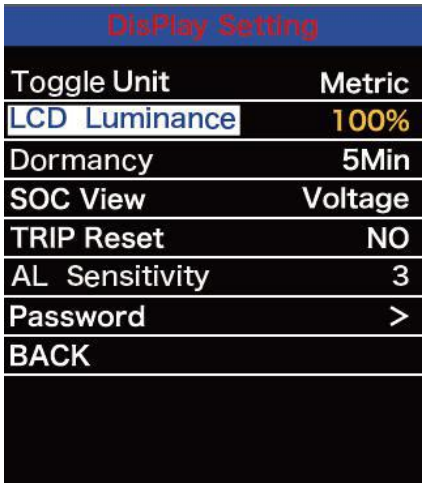
To store a changed setting, press the “i” button to or long press i button and exit the general settings.



Auto shutdown time settings

◆SOC View Settings

SOC view represents 2 view methods of remaining battery capacity. One is by the percentage and the other one is by the Voltage value. Press SOC view and press UP/DOWN button to choose the view method. The default view method is by the percentage.



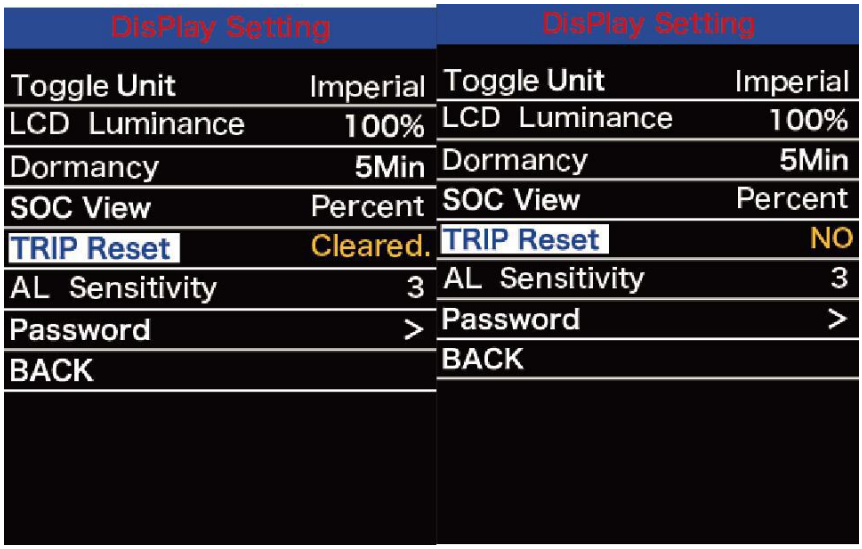
SOC view settings

◆Trip Distance Clearance

Trip Reset represents trip distance clearance setting.

To clear trip distance, press “+” button or “-” button to select Yes or No. Yes represents clearing a single ride distance. No represents not clearing a single ride distance.

To store a changed setting, press “i” button.

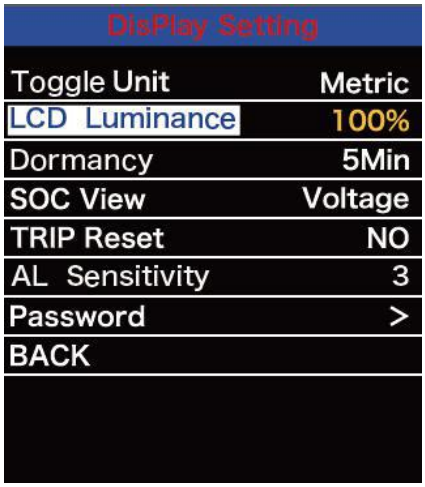


Trip Distance Clearance Settings Interface

◆AL sensitivity

AL sensitivity represents Ambient Light Sensor settings. The sensitivity value ranges from 1 to 5. The default value is 3. It can help with adjusting the screen brightness as per the ambient light conditions automatically. When you ride the bike at night or in a place where there is a lack of light, the display backlight and bike headlight will be turned on automatically.

Press AL sensitivity and press **UP/DOWN** button to choose the desired sensitivity value.



AL sensitivity settings

◆Power-on Password Settings

Password on the screen means power-on password settings. The default password is 1212.

After accessing the power-on password settings, Press '**+/-**' button to choose 'Password' and press **i** to confirm. Press the "+"or the "-"button to modify the values and then press "i" button to confirm digit one by one until the correct 4-digit password is completed, and then press "i" button to access power-on password enable settings interface, otherwise stay still in the password input state.

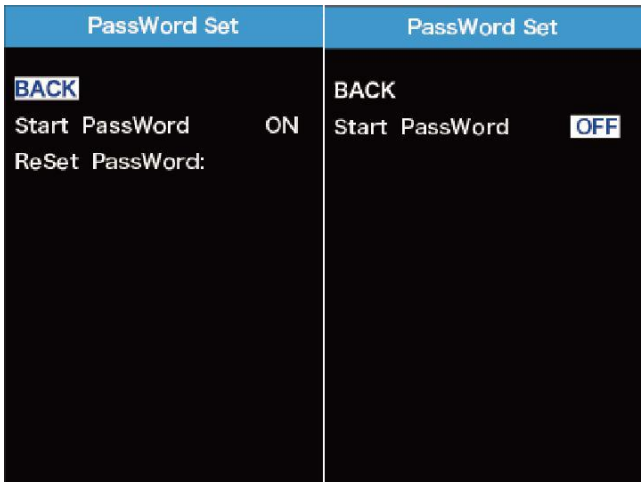
Enter Password Interface

◆**Power-on Password Disable/Enable/Change**

To change power-on password enable/disable settings, press “+” or “-” button to select. Disable means not require a power-on password. Enable means a power-on password is required.

If select Enable，press the “i” button and then access power-on password modify interface, otherwise exit the power-on password settings interface.

The default value is Enable Password.



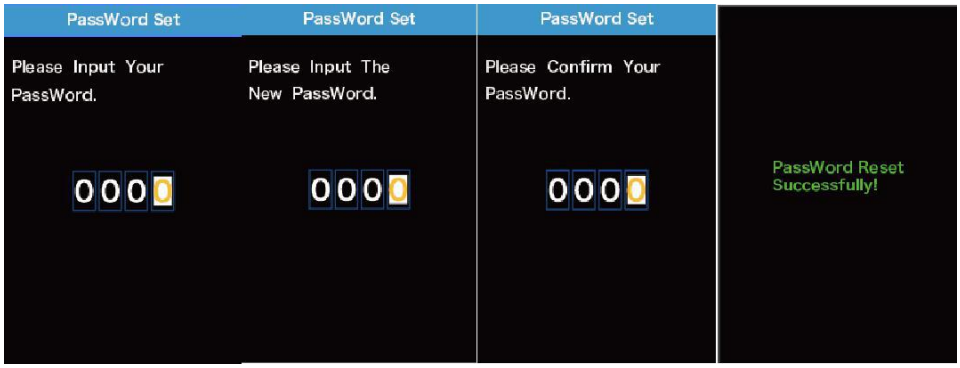
Set Password Interface

◆**Power-on Password Modify**

When the display shows Password Set，Enter Password 0000, to set new power-on password, press the “+” or the “-” button to modify the value and then press the “i” button to confirm digit one by one until the new 4-digit password is completed.

To store the new power-on password, hold the “i” button for 2s and then exit settings.

When switching the E-bike system on next time, the display will show 0000, please input the new password to power on.



Password Change Interface

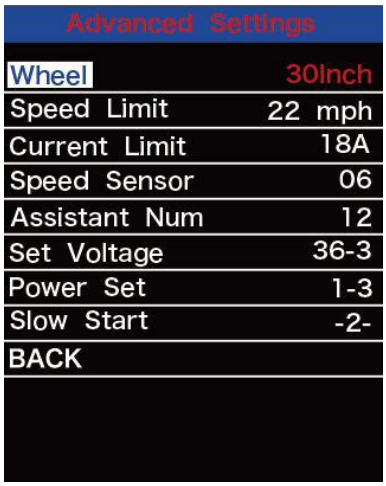
Advanced Settings

After General Settings (DisPlay Setting) is done, Press Back to return Setting page.

Press **UP/DOWN** button to choose Advanced Settings and press “i” button to enter Advanced Settings page.

◆Wheel Diameter Settings

Wheel represents wheel diameter settings. To change basic settings, press the “+” or the “-” button to increase or decrease until the desired value is displayed. The default value is 26 inch. To store a changed setting, press the “i” button to confirm and "OK" prompts for operation completed.



Wheel Diameter Settings Interface

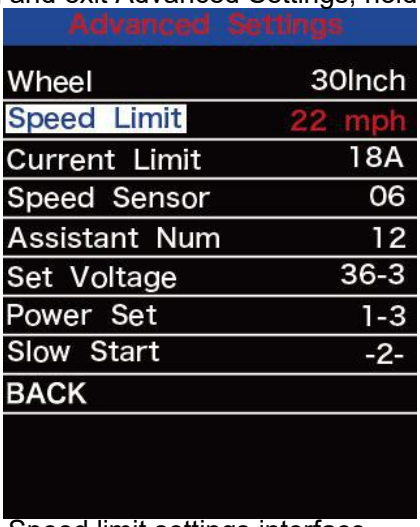
◆Speed-limit Settings

The default value is 25Km/h.

Speed Limit represents the limited speed settings. When the current speed is faster than speed limit, the E-bike system will be switched off automatically. Speed limit range is 12Km/h to 40Km/h.

To change basic settings, press the “+” or the “-” button to increase or decrease until the desired value is displayed. Press the “i” button to confirm, display "OK" words prompt operation is completed.

To store a changed setting and exit Advanced Settings, hold the “i” button for 2s.



Speed limit settings interface

◆Battery Info.

Press **Battery info** for more information and status of the battery you are currently using.

◆Error Code

Press **Error code** for detailed information of errors in the list.

◆Exit Settings

In the settings state, press the “i” button (short than 2s) is to confirm the input. Hold the “i” button (for more than 2s) is to store the settings, and then exit the current settings. Hold the “-” button is to cancel the operating but not storing settings data, and then return to previous menu.

■If there is no operations in one minute; the display will exit the settings state.

Quality Assurance and Warranty Scope

I. Warranty

（1）The warranty will be valid only for products used in normal usage conditions.

（2）The warranty is valid for 24 months after the shipment or delivery to customers

II. The following cases do not belong to our warranty scope.

1、The display is demolished.

2、The damage of the display is caused by wrong installation or operation.

3、Shell of the display is broken when the display is out of the factory.

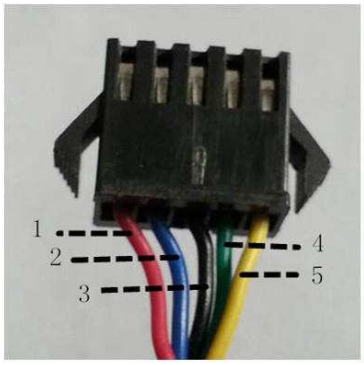
4、Wire of the display is broken.

5、The fault or damage of the display is caused by the force majeure (e.g., fire, earthquake, etc.).

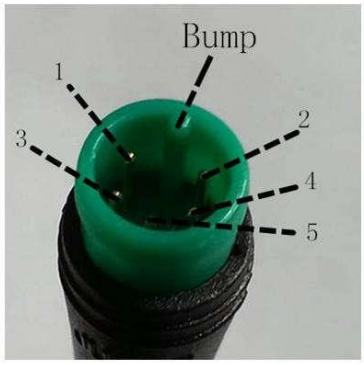
6、Beyond Warranty period.

Connection Layout

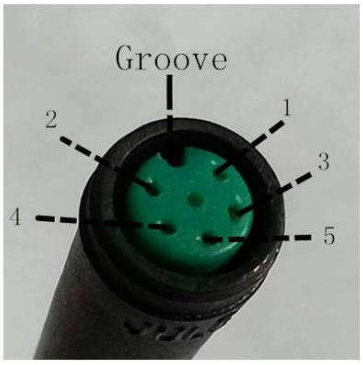
Connector wire sequence



Connector to controller



Display end



Connection wire end to display end

wire sequence table

Wire	Color	Function
1	Red（VCC）	+
2	Blue（K）	Lock
3	Black（GND）	-
4	Green（RX）	RX
5	Yellow（TX）	TX

■Some products have wire connection with water-proof connectors; users can't see the color of wires in the harness.

Warnings:

1. Use the display with caution. Don't attempt to release or link the connector when battery is on power.
2. Try to avoid hitting the display.
3. Don't modify system parameters to avoid parameter disorder.
4. Make the display repaired when error code appears.

THIS MANUAL INSTRUCTION IS A GENERAL-PURPOSE VERSION.SOME OF THE VERSIONS FOR THE DISPLAY SOFTWARE WILL BE DIFFERENT FROM SPECIFICATION TO SPECIFICATION. PLEASE ALWAYS REFER TO AN ACTUAL VERSION

Attached list 1：Error code definition

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

Attached list 2：PAS ratio default value table

Level / PAS Level mode	1	2	3	4	5	6	7	8	9
0-3/1-3	50%	74%	92%	—	—	—	—	—	—
0-5/ 1-5	50%	61%	73%	85%	96%	—	—	—	—
0-7/ 1-7	40%	50%	60%	70%	80%	90%	96%	—	—
0-9/ 1-9	25%	34%	43%	52%	61%	70%	79%	88%	96%