Fahora

OWNER MANUAL FOR KD986

Product Model

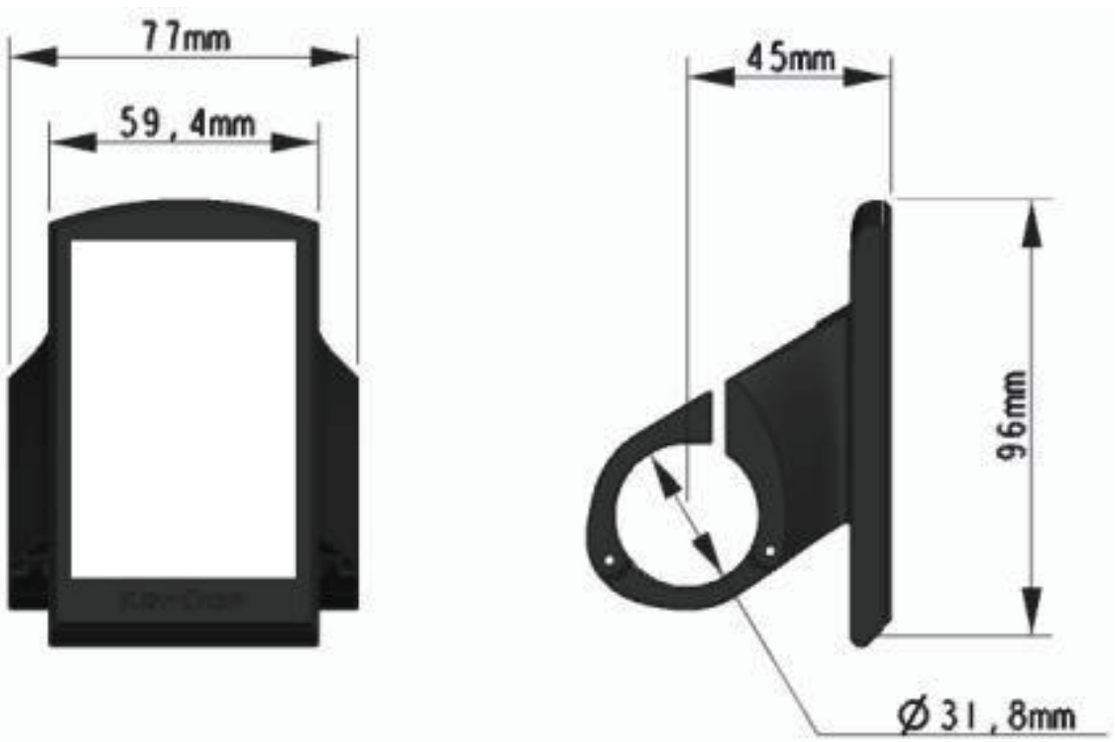
Smart Color LCD Display for E-bike
Model: KD986

Specifications

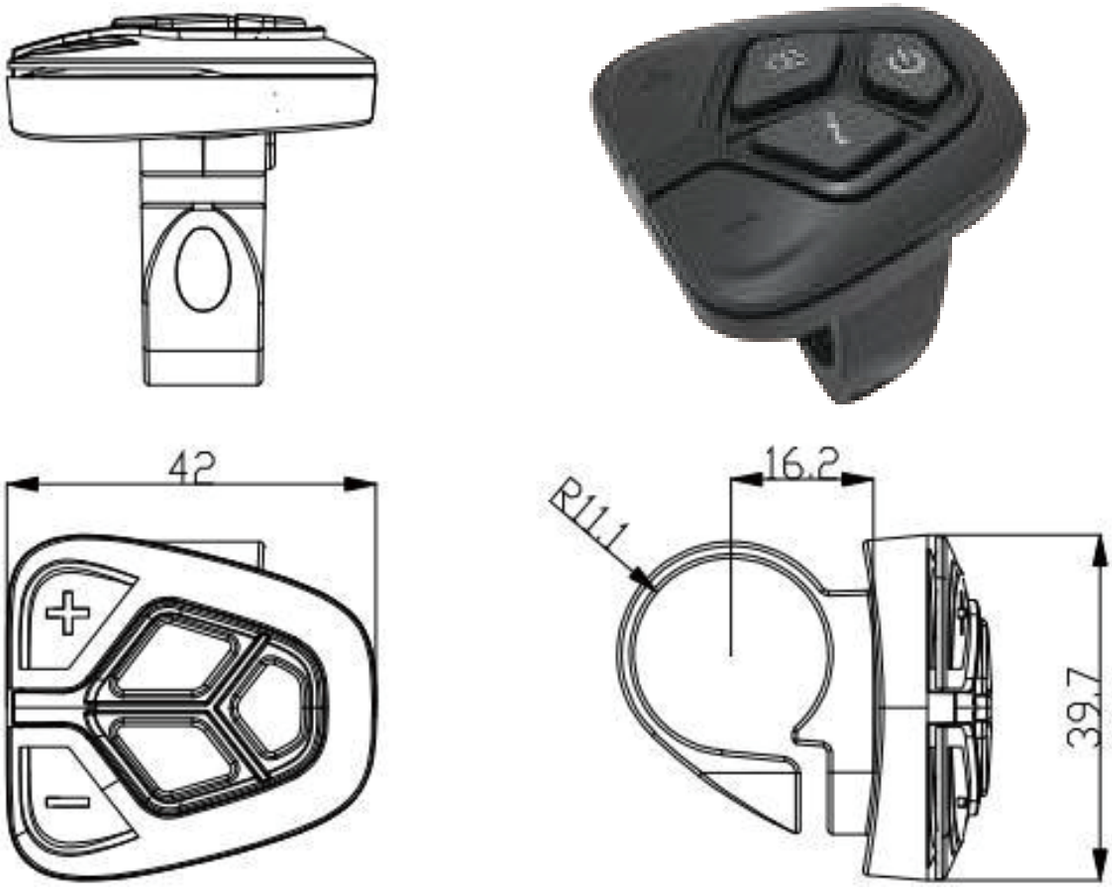
- *Power Supply: 24V/36V/48V*
- *Rated Working Current: 10mA*
- *Maximum Working Current: 30mA*
- *Shutdown Current Consumption: <1uA*
- *Operating Temperature: -20℃~ 60℃*
- *Storage Temperature: -30℃~ 70℃*

Appearance and Size

- *Display(unit: mm):*



Remote(unit: mm):



Function Summary

- *KD986 has various of functions to meet the owners' needs:*
- *Speed Indication (real-time speed/maximum speed/average speed)*
- *Mileage Indication (single trip mileage/odometer mileage)*
- *Trip Time Indication*
- *Push-assistance Function Indication*
- *Headlight Indication*
- *Assistance-level Indication*
- *Battery Percentage Indication*
- *Motor Power Indication*
- *USB Connection Indication*
- *Error Code Indication*
- *Parameter Settings (wheel diameter, speed limitation, assistance-level, etc.)*

General Operation

Switching On/Off

Press the power button to switch on the E-bike system and power supply. Hold the power button for 2s to switch off the E-bike system and power supply.

After switching off the E-bike system, the current consumption is less than 1uA.

If the E-bike isn't underused for more than 10 minutes, the display will switch off automatically.

Display Interface

The display will show the real-time speed and the single trip mileage after being turned on.

Pressing the "i" button to view more riding data scrolling as below: single trip mileage (km) →odometer mileage (km)→maximum speed (km/h)→average speed(km/h)→trip time (min)

Push-assistance Mode

Hold the "-" button for 2s to activate the push-assistance function and keep pressing the "-" button to use this function. The E-bike will work at a constant speed of 6 km/h under this mode and the screen will show "🚲". Release the "-" button to exit this mode.

Do not activate this mode while riding. It could only be used when pushing the E-bike.

Headlight

Hold the "🔦" button for 2s to turn on the headlight and the LCD luminance will automatically decrease.

Hold the "🔦" button for another 2s to turn off the headlight.

Headlight On

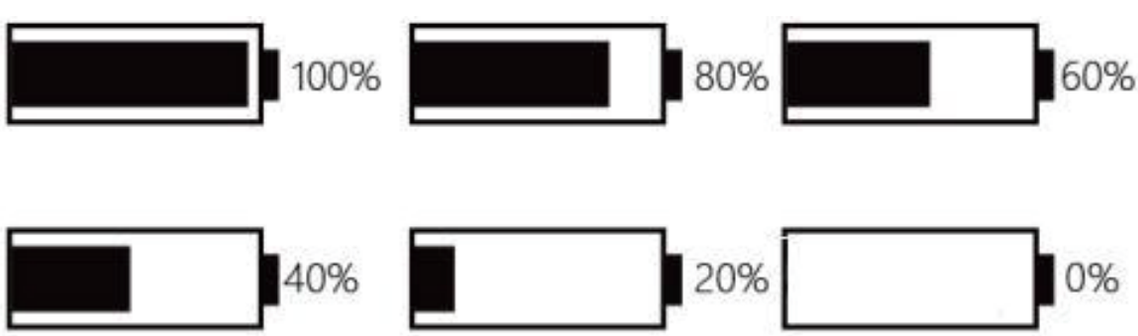
Assistance-level

Press the +/- button to switch the E-bike system assistance-level which will also change the motor output power. The default setting of assistance-level is “0-5”. “0” refers to no output power. “1” refers to the minimum output power while “5” refers to the maximum output power. The default value is “1” after turning on the display.

Assistance-level Indication

Battery Percentage Indication

The battery power/voltage shows in the five bars. 100% refers to the battery is fully charged and the battery voltage is on the highest level. While 0% refers to the battery needs to be charged immediately.



Battery Percentage Indication

Motor Power Indication

The motor power can be read on the interface.

Motor Power Indication

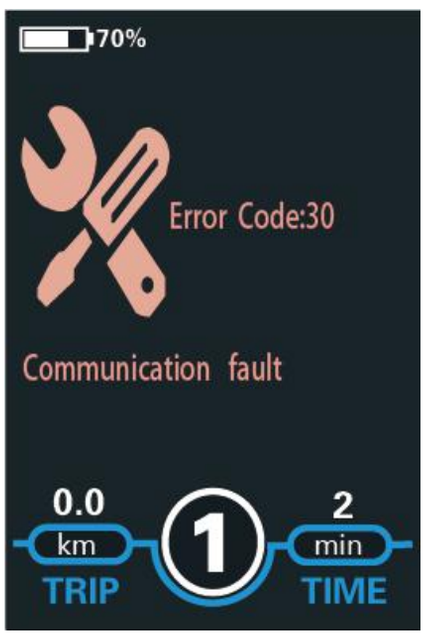
USB Connection Indication

Plug a USB external device into the display and the interface will show an indicator as below.

USB Connection Indication

Error Code Indication

Error code appears when the electronic control system of the E-bike fails. Every error code refers to a different component fault.
When there is an error code, please eliminate the fault in time or it can't work normally.

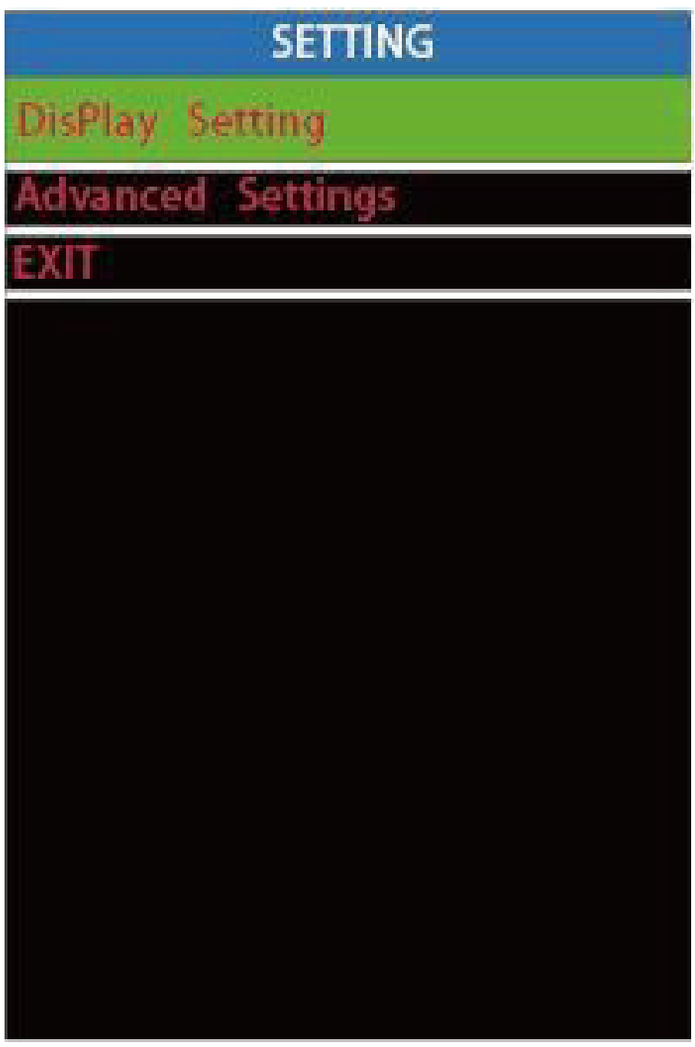


Error Code Indication

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

General Settings

After switching on the E-bike system and power supply, hold the “+” button and the “-” button together for 2s to enter the general settings menu. It includes Display Setting and Advanced settings.
All the settings should only be operated after the bike is parked

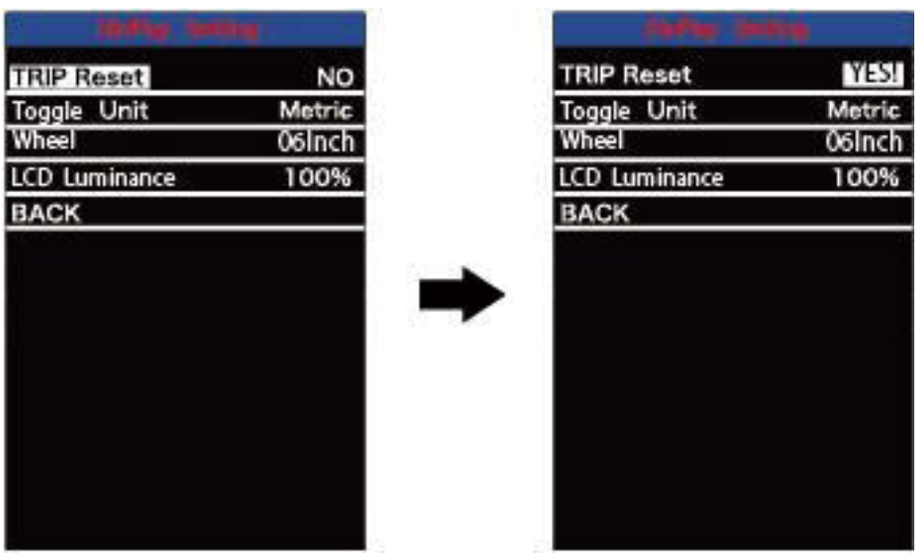


General Settings

Display settings:

Single Trip Distance Clearance

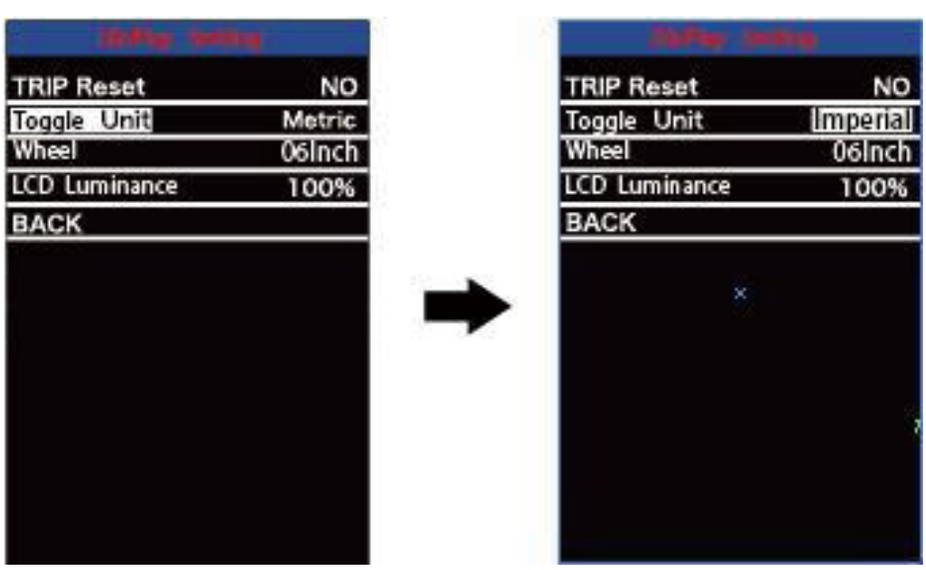
To clear trip distance, press the +/- button to select “Yes” or “No”.
“Yes” refers to clear a single ride distance. “No” refers to not clear a single ride distance. “No” is the default setting.
Press the “i” button to save the modified setting.



Single Trip Distance Clearance

Metric/Imperial Unit Conversion

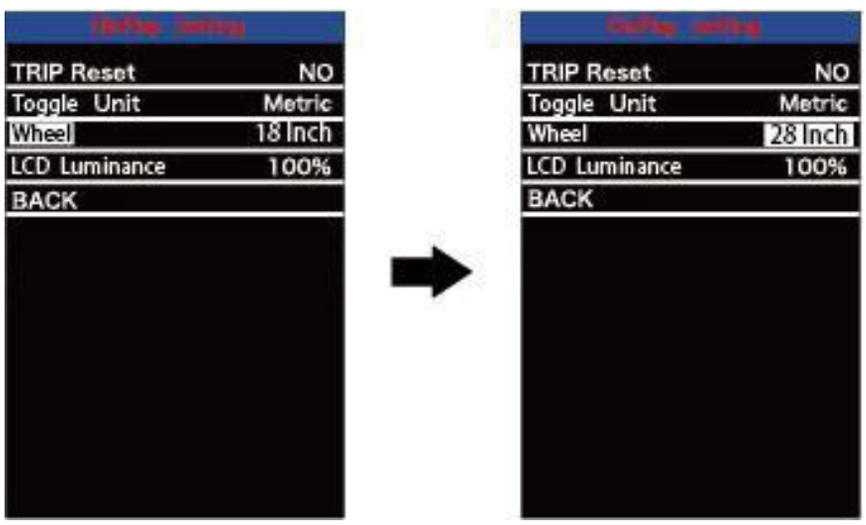
Toggle Unit refers to unit conversion. Press the +/- button to to switch the unit. The default setting is "metric system (km)".
Press the “i” button to save the modified setting.



Unit Conversion

Wheel Diameter Settings

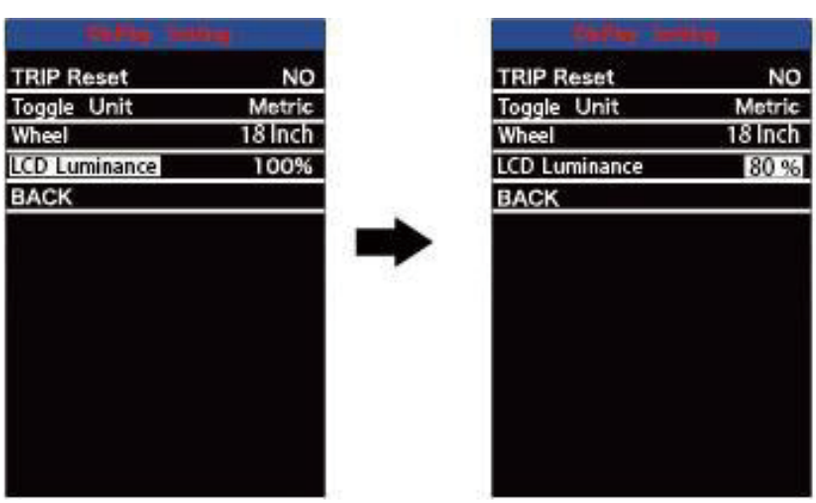
Wheel refers to wheel diameter settings. Press the +/- button to increase or decrease the wheel diameter. The default value is 28 inch.
Press the “i” button to save the modified setting.



Wheel Diameter Settings

LCD Luminance Setting

LCD Luminance refers to the brightness of the screen. 100% is the brightest, lower percentage equals to lower brightness. Press the +/- button to change the screen brightness.
Pressthe "i" button to save the modified setting.



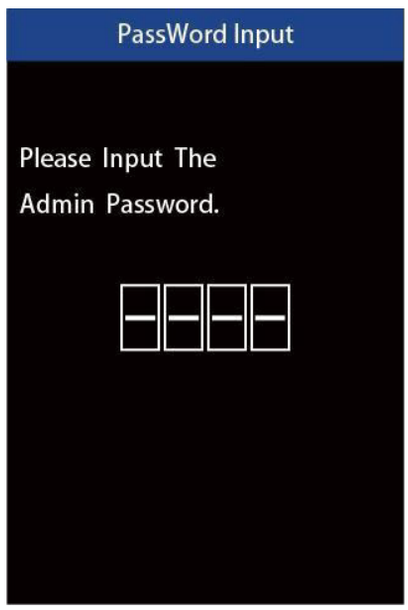
LCD Luminance Setting

Advanced settings:

Use the correct password to enter the advanced settings interface.

The default password is 1212. Press the +/- button to switch the number.

Press the "i" button to confirm each number.



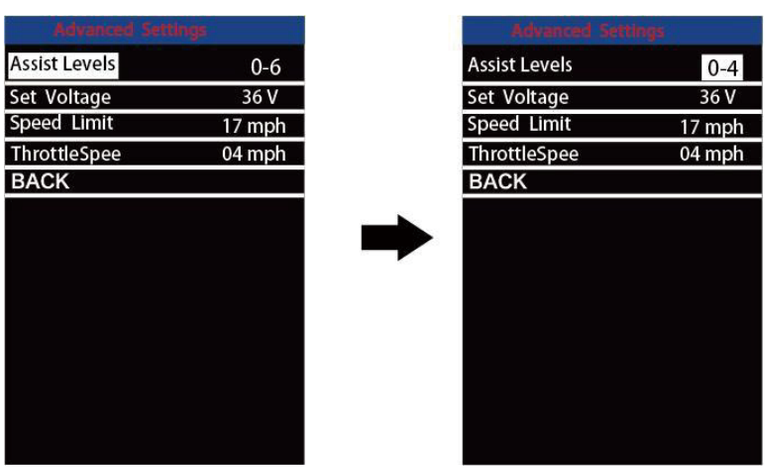
Password Input

Assistance-level Setting

There are 8 different modes of assistance-level: 0-2, 1-2, 0-4, 1-4, 0-6, 1-6, 0-8, 1-8. The default value is 0-6.

Press the +/- button to switch the assistance-level mode.

Press the “i” button to save the modified setting.



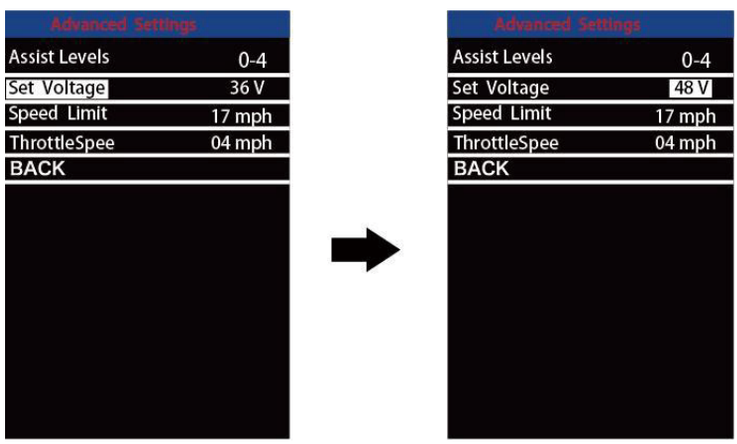
Assistance-level Setting

Voltage Setting for Battery Bars

Set Voltage refers to the battery power bars setting. The rated voltage can be switched to 36 volts or 48 volts . The default voltage is 48 volts.

The voltage value of each bar can be set. For example, VOL 1 refers to the voltage value of the first bar which is set as 41.5 volts.

Press the +/- button to change the default value and press the "i" button to confirm and enter the setting for next bar. After all five voltage values are set, press the "i" key to save the modified setting.



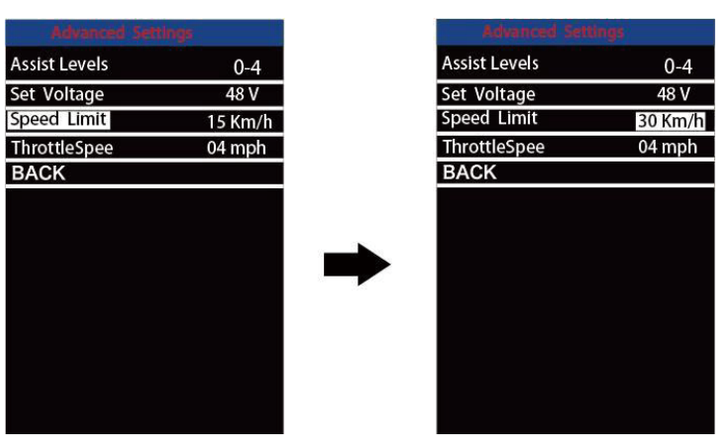
Voltage Setting

Speed Limitation Setting

Speed Limit refers to the max speed limit setting. The max speed limit is ranged from 15km/h to 99.9 km/h.The default max speed limit is 27km/h..

When the real-time speed is higher than the max speed limit, the electric bicycle system will automatically shut down.

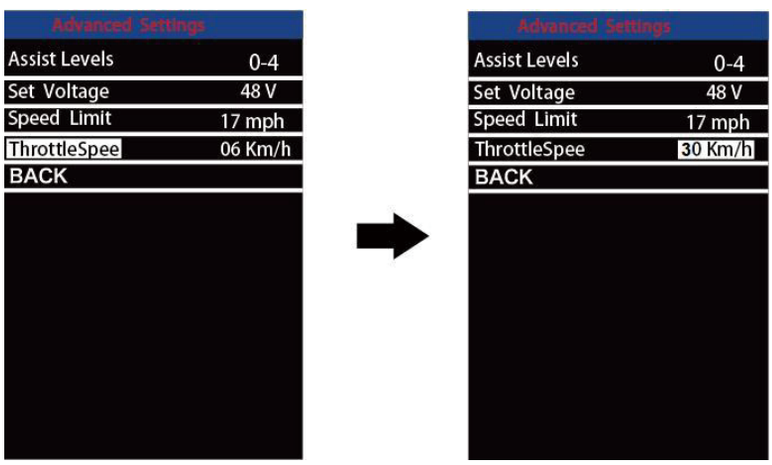
Press the +/- button to increase or decrease the value.
Press the "i" button to save the modified setting.



Speed Limitation Setting

Throttle Speed Limitation Setting

Throttle speed refers to the max speed limit setting of the throttle. There are four options: 6/25/30/99.9 (km/h). The default speed limit of the throttle is 6km/h which means the speed isn't able to surpass 6km/h when using the throttle.
Press the +/- button to switch the value.
Press the "i" button to save the modified setting.



Throttle Speed Limitation Setting

If there is no operations in one minute, the display will exit the setting page.

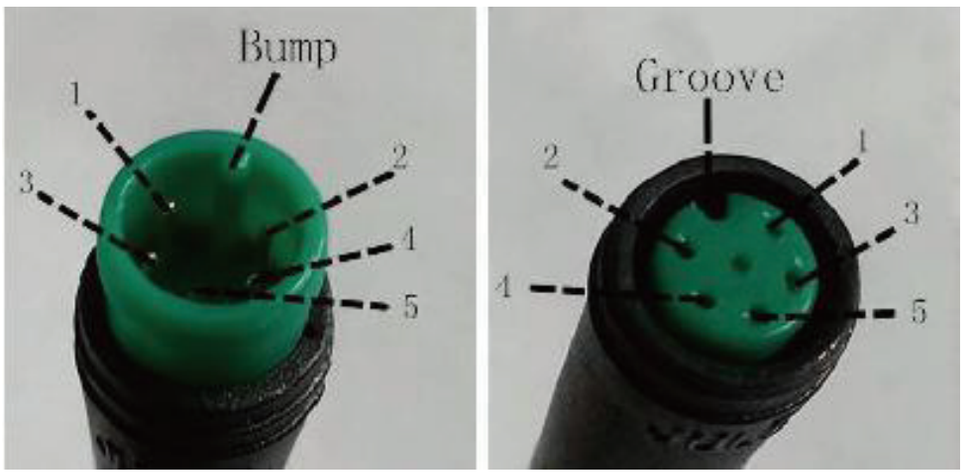
Quality Assurance and Warranty Scope

- *A limited warranty is valid for product quality faults under normal use.*
- *The warranty of the display is valid for 24 months since it is shipped.*

The following conditions are not covered by the warranty:

- *The housing of the display is opened*
- *The connectors are destroyed*
- *The housing is scratched or damaged after it is shipped.*
- *The external wire of the display is scratched or damaged.*
- *Fault or damage caused by force majeure or natural disaster. (such as fire, earthquake,lightning strike, etc.)*
- *The product is beyond warranty period.*

Connection Layout



Pin Sequence Table

pin	Color	Function
1	Red（VCC）	+
2	Blue（K）	Controller power
3	Black（GND）	-
4	Green（RX）	Data acceptance
5	Yellow（TX）	Data trans

Some wires were covered by water-proof connectors and the color is invisible.

Cautions

Due to safety concerns, do not plug or unplug the display when it is powered on.

Avoid bumping the display.
Be careful to modify the parameter settings, or normal riding may not be guaranteed.
Get the display fixed on time when it is unable to work.

This operating instruction is a general version. Some versions of the display software may vary from the specifications, which depends on the actual version.