
KING-METER

WH527-LCD

USER GUIDE



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1.Preface

Dear users,

To ensure better performance of your e-bike, please read through the WH-527 product introduction carefully before using. We will use the most concise words to inform you of all the details

（including the hardware installation, setting and normal operation use of the display） when using our display. Meanwhile, the introduction will also help you to solve the possible confusion and malfunctions.

2.Appearance and Dimension

2.1 Material and Color




WH-527 products are made of PC. Under the temperature of -20 to 60°C, the shell material can ensure normal usage and good mechanical performance. Real product and dimension figure.(unit: mm)

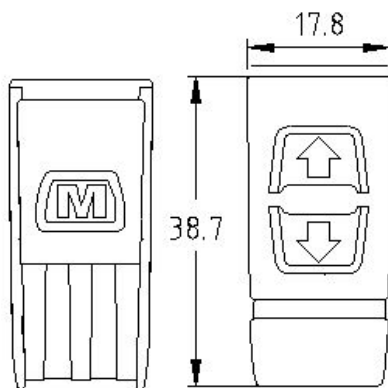
2.2 Dimension of Indication and installation

(unit: mm)



2.3 Button Definition and Material

WH-527 buttons are made of PC, the material of button was made of silicone rubber, BK, there are 3 buttons, it contain Power ON/OFF mode button,   



3. User attention items



Take care when using the display and do not connect/disconnect it with power on.



Try to avoid bumping or colliding the meter.



Do not release the waterproof sticker film attached on the display to avoid impairing its waterproof performance.



The parameters and settings of the meter are not expected to be modified by the user; otherwise, your riding experience will be affected.



The display should be delivered for repair as soon as possible in case of malfunction.

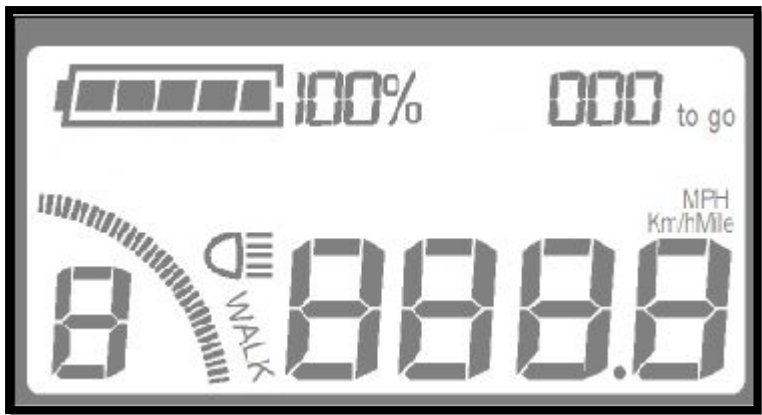
4.Function summary and Indication Area

4.1 User Setting Summary

WH-527 provides a wide range of functions and indicators to fit for users needs. The indicated contents are as follow:

- ◆ Percent of battery
- ◆ Speed Display (including real-time speed, average speed and max speed)
- ◆ Unit choice of British/Metric (MPH/Km/H, Mile/Km)
- ◆ Distance indication (Trip distance and total distance)
- ◆ Time indication of single riding
- ◆ PAS indication
- ◆ Backlight
- ◆ Consumption fat energy of single riding
- ◆ Fault error and character indication of electronic control system
- ◆ Various Parameters Setting, such as wheel size, speed-limited, and so on.

4.2 Area Indication



5. Interface Setting

When the e-bike power off , fix the display onto the handlebar and adjust to an appropriate visual angle. Tighten all the connectors.

6. Function Setting of Interface

6.1 Prepare for Power On

Ensure the connector joint fix before power on display, and power on the battery of e-bike.

6.2 Power on/off

Press **M** Button for 2-3 seconds then the display will work normally, and the controller will power on at the same time.

With display on, press **M** >2s, the display will shut down, the display will leave off battery, the leakage current of display on is less than $1\mu\text{A}$.

6.3 Battery Indication

When the battery is in high voltage the 5 level all light on, when the battery is in low voltage, battery frame will flash to notice that the battery needs to be recharged immediately.



Low Voltage Flash

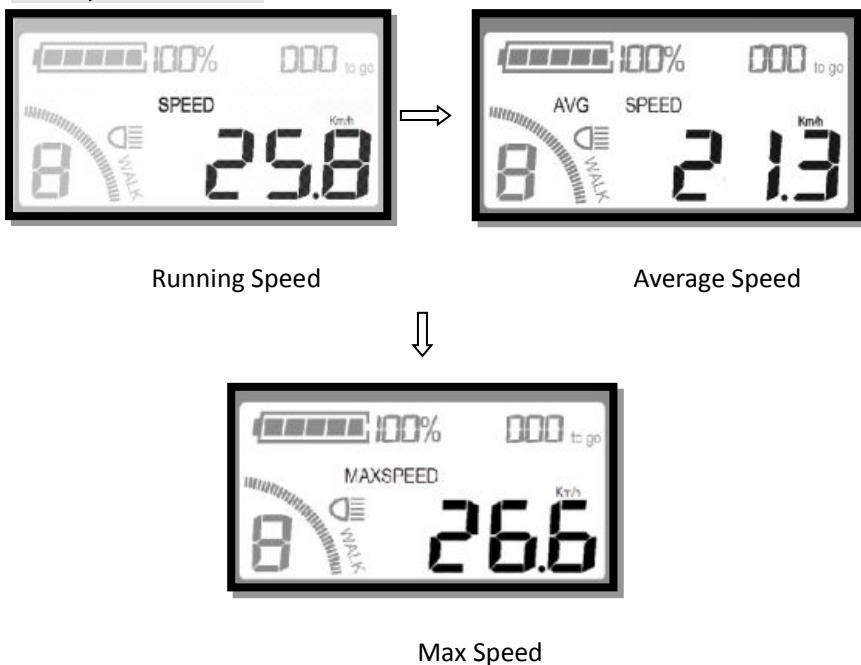
6.4 Enter into Setting

After starting up the display, default show is running speed. Press **M** to change the indicated information in sequence as below:

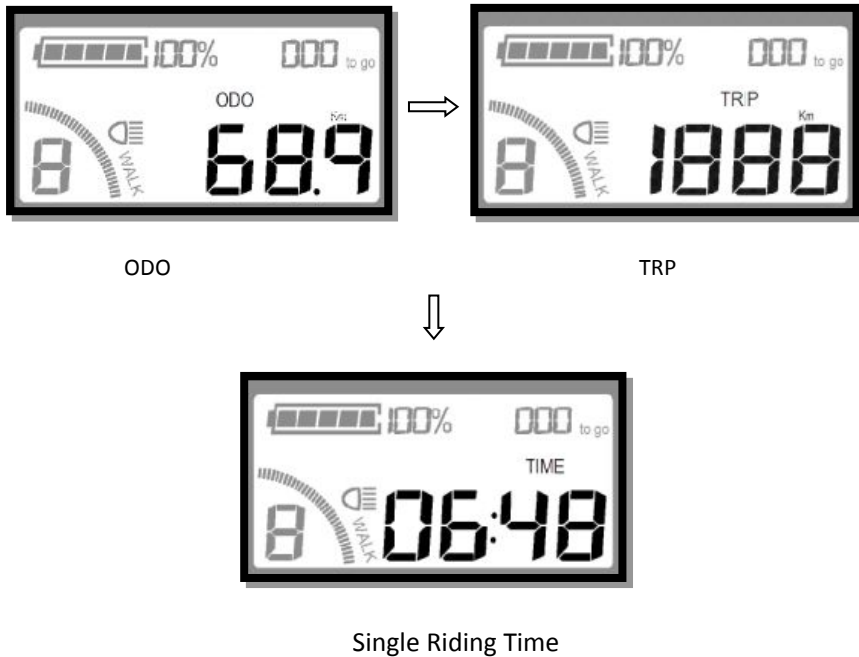
Running Speed (Km/h) → Average Speed (Km/h) → Max Speed (Km/h) (unit: Km/h)

Trip Distance (TRP) → Total Distance (ODO) → Single Riding Time (TIME)

6.4.1 Speed Indication

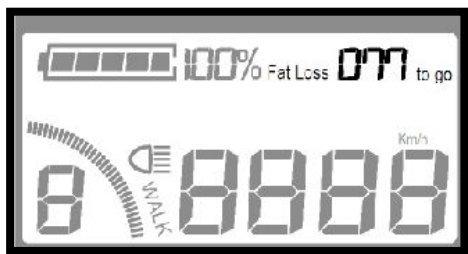


6.4.2 Distance and Time Indication



6.5 Consumption fat energy of single riding (J) Indication



With the display power on, the indication of riding distance and consumption fat energy. If no use e-bike more than 10 min, the indication will clear off.

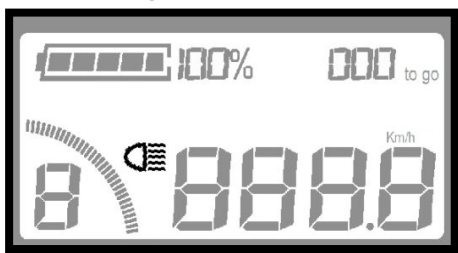


Fat Consumption Indication

6.6 Turn on the backlight



When the environment light is dark, can turn on the LCD backlight.

Press  >3s, turn on the backlight, and turn on the headlight by controller. Press  again >3s, can turn off the LCD backlight.

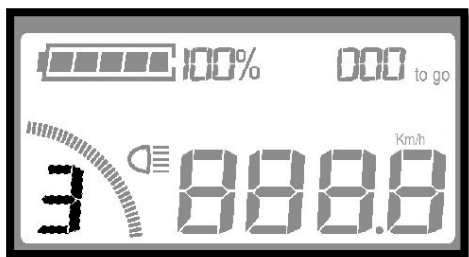


Turn on the backlight

6.7 Choice of PAS Level


Press  or  <2s, switch the PAS level, Change the motor output power. Default output power of the display: 0-6, level-1: the min

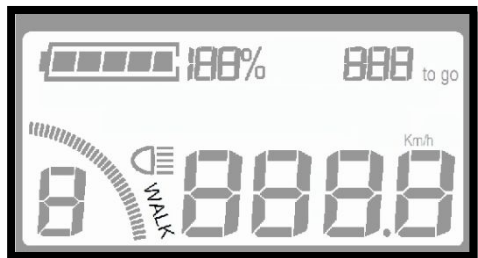
power; level-6: max power. The default value is level-1.



PAS Level Indication

6.8 Push Cruise Control

After press  >3s, enter the mode of power assistant walk. The e-bike will go on at a uniform speed of 6 Km/h. WALK shows on the screen.



Push Cruise Indication



“Push Cruise Control” function can only be used as pushing the e-bike by hands. Please don’t use this function when riding.

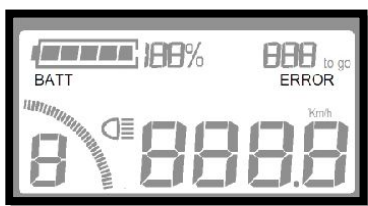
6.9 Error Code Indication

If there is something wrong with the electronic control system, the error code will appear automatically. Here is the two serials detail information of the error code:

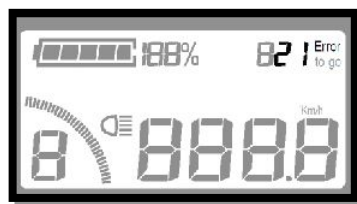
○ There are 5 serials character code fault which tell the user by which reasons, here is the detail information of the error code in **Table 1** attached.

○ **Other** fault indication by code, here is the detail information of the error code in **Table 1** attached.

The follow is the 1 error code indication in 2 mode:



Literal code







Digital code






Only after malfunctions are remedied will the error code exit. It is not possible to run defective e-bike.

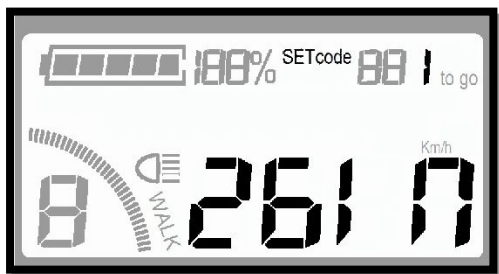
7.User Setting

With display on, press  and  together >2s, enter into normal setting, can choose mode by press  or , the follow is setting indication:

- ☐ SET code 1——wheel size
- ☐ SET code 2——limited speed
- ☐ SET code 3——brightness backlight
- ☐ SET code 4——switch setting of British(Mp)/Metric(Km)




7.1 Wheel Size Setting

When the interface indicate SET code 1, press  and  <2s, setting wheel size, and press  <2s to confirm the choice. Settable wheel size : 16、18、20、22、24、26、700C、28、29. For ensure the indication accuracy of speed and distance, the wheel size shown on display is 26 inch by default.

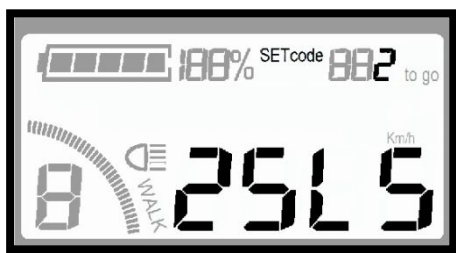


Wheel size shown by default

7.2 Speed Limit Setting




When the interface indicate SET code 2, press  and  <2s, switch low or high speed, and press  <2s to confirm the choice.

The default max speed for riding is 25Km/h as delivery. To change this value, you can set the max speed for riding, LS represents speed limit. The optional range of max speed setting value: 12Km/h to 40Km/h.

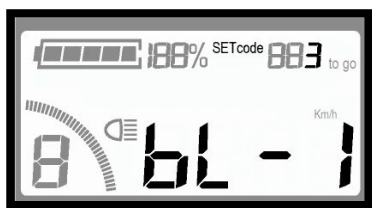


Speed limit setting

7.3 Backlight




When the interface indicate SET code 3, press  and  <2s, switch the backlight level, and press  <2s to confirm the choice.

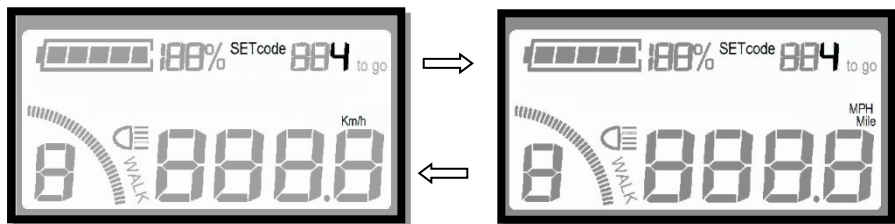
BL represents backlight, the settable level is 1L-3L, 1 represents min dark, 2 represents standard bright, 3 represents max bright. Default level as delivery: 1L.



Backlight level



7.4 Switch Metric (Km) and British (Mp) Unit

When the interface indicate SET code 3, press  and 
<2s, switch Metric (Km) and British (Mp) unit, and press 
<2s to confirm the choice.



Switch Metric (Km) and British (Mp) unit

7.5 Exit Setting

At the state of setting, press  <2s, it will confirm the input and save the setting. press  >3s, it will cancel operation and exit setting, the current setting data will not save.



If there is not any operation in one minute, the display will exit the setting mode automatically.

8.FAQ

Q: Why the display is not able to start up?

A: Check the connector between display and controller.

Q: How to deal with the error code?

A: Fix it to the maintenance place immediately.

9.Barcode

The barcode of display divide into two lines.

The first line: WH527000001. WH527 represents the product name; 000001 represents the product serial number. The second line: 12 06 3 101801. 1206 represents the delivery date is the sixth week of 2012; 3 represents voltage parameter (2-24V, 3-36V, 4-48V); 1 represents sample product; 01 represents the hardware version of display, and 1801 represents the software version of display.



10.Warranty

1 Warranty information

1. For any faults caused by product oneself quality problems during normal use, we will be responsible for limited warranty within the warranty period.
2. The warranty period is 24 months as delivery.

2 The following case was not at the scope of warranty

1. The housing is opened.
2. The connector is damaged.
3. The housing is scratched or damaged as delivery.
4. The cable is scratched or breakage.
5. Any failure or damage caused by force majeure (such as fires、earthquakes、 etc.) or natural disasters (such as thunder etc.)
6. Expired warranty

11.Wires

Wire sequence of standard plug connectors



To controller

The end on display

For joint

Table: The wires sequence of standard connector

Wires sequence	Wires color	Function
1	Red (VCC)	Power line of display
2	Blue (K)	Power control line of the controller
3	Black (GND)	Ground of display
4	Green (RX)	Data receive line of display
5	Yellow (TX)	Data transmission line of display

Note: some wire use the water-proof connector, so the users can not see the colors of the enclosed wires.

12.Version

This Users Guide is prepared for general-purpose software (V1.0) of Tianjin King-Meter Electronic Co., Ltd. The version of software used on some bikes may be slightly different, which should depend on the actual version in use.

Attached Table 1: Definition of error code

Error Code	Definition
21	Current abnormality
22	Throttle abnormality
23	Missing phase on motor
24	Motor Hall signal abnormality
25	Brake abnormality
30	Controller communication abnormality
BATT	Battery abnormality
Controller	Controller abnormality
Display	Display abnormality
Sensor	Sensor abnormality
Motor	Motor abnormality