



DISPLAY 500

USER MANUAL

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1.About the user manual

Dear users,

To ensure better performance of your ebike, please read through the 500 instruction carefully before using it. We will inform you of all the details, including the installation and function setting of the display with the most concise words. Meanwhile, the specification will also help you to solve possible malfunction.

2.Material and external dimensions

500 products use the LCD screen, double side printed board , nylon buckle, ABS material shell. Under the temperature ranging from -20°C to 60°C, the shell material can ensure the good mechanical performance of the products.

Real product and dimension figure :(unit: mm)

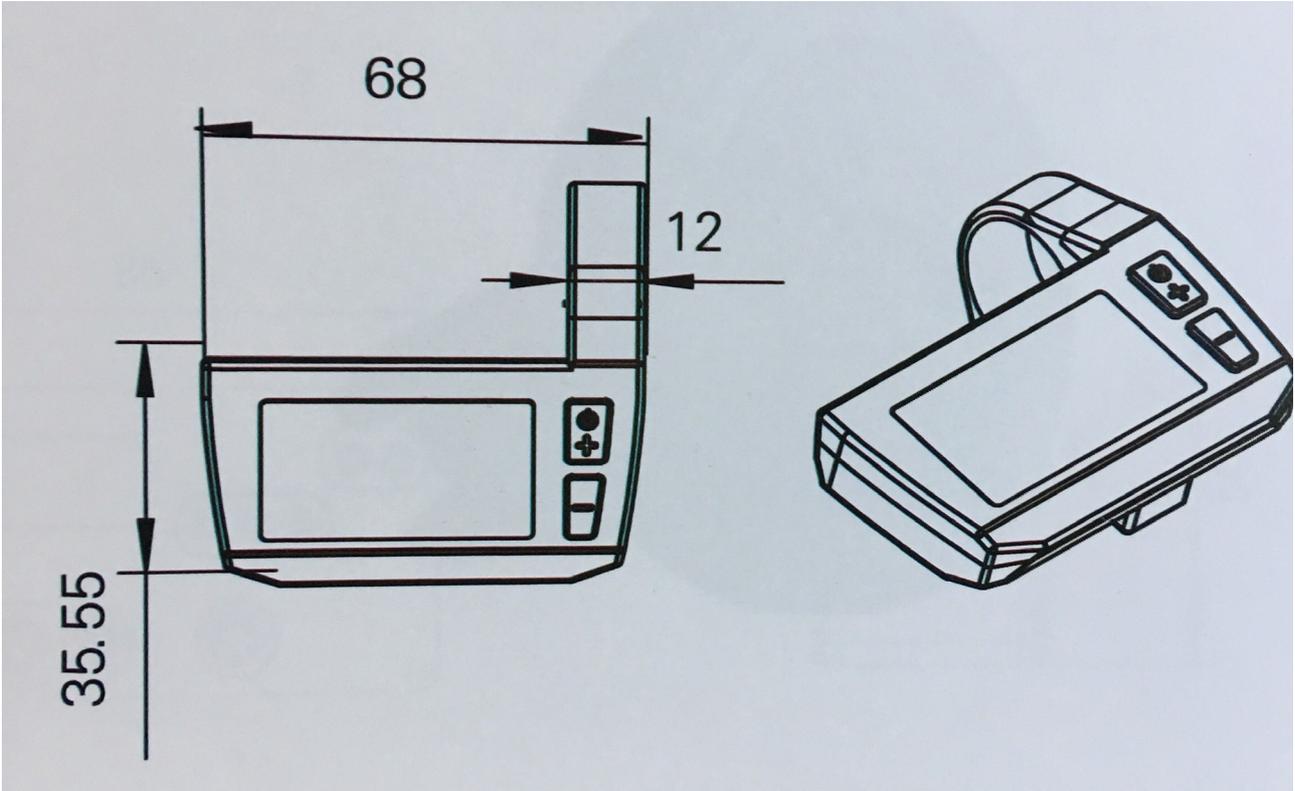


Figure 2

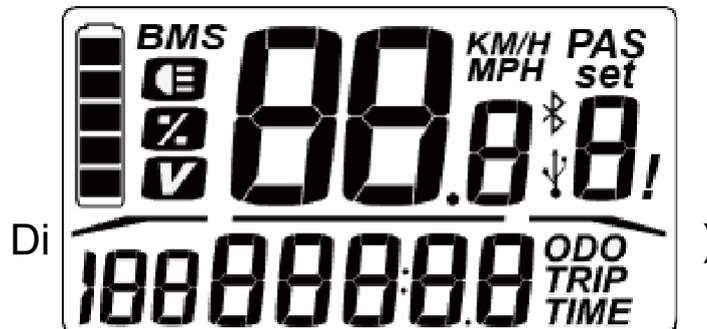
3. Function summary

500 is a Multifunctional display.

500 function Summary(Figure 3-1)

- ◆ Kilometers or miles scale selection
- ◆ Current speed indication
- ◆ Rotational informations: Total distance indication, Riding distance indication, Time (Hours:Minutes)
 - ◆ Backlight indication (switch backlight)
 - ◆ PAS level selection, Error code definition
 - ◆ Battery capacity indication

Figure 3-1



Display during use(without backlight) (figure 3-3)

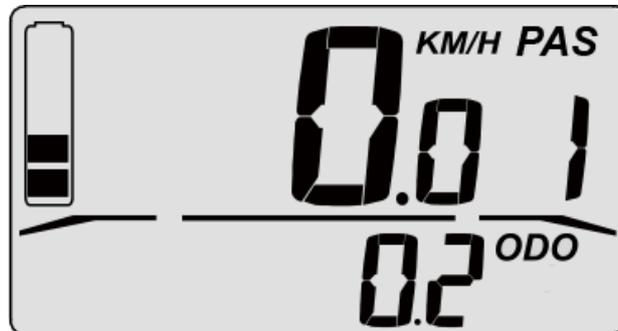


Figure 3-3

Display during use(with backlight) (figure 3-4)

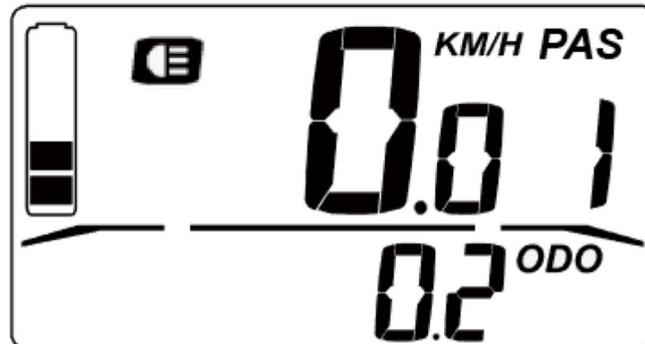


Figure 3-4

The display could be the left and right hand type according with bike manufacturer choice.

4. Button function

500 has two buttons including ON/OFF/UP and SET/DOWN. (figure 4)

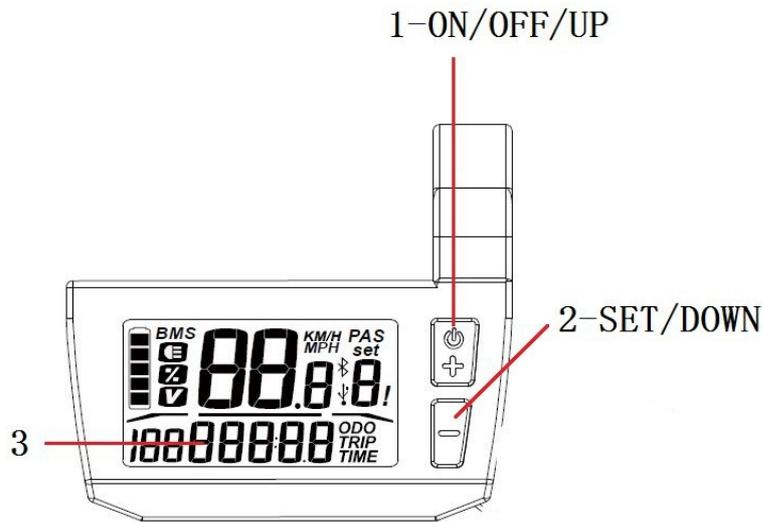


Figure 4

Pressing the ON/OFF/UP button for 3 seconds you can turn the system on

Once the system is ON, pressing shortly the UP button means to shift to higher assistance levels.

Pressing the UP button for 3 seconds shut the system off.

Pressing the SET/DOWN button shortly means to shift to lower assistance levels.

Pressing the SET/DOWN button for more than 5 seconds you can use the 6Km/h function if you are in 0 assistance level.

Pressing UP and DOWN buttons together, shortly, you can light up display and bicycle lights if they are connected to the electrical system.

Pressing UP and DOWN buttons together, for more than 10 seconds, you will access programming area with sensitive data under password.

Password is given to manufacturers only.

5. Normal operation

To switch on the system first you have to switch on the battery. Then you can operate the commands on the display through buttons.

The system will start in 0 assistance mode. It means that the system will not start if you push the pedals. To start to have assistance you have to select manually the 1 or the upper assistance mode.

(1) On/off function



Clicking  button, the display starts to work and provides the power to the system.



You can hold  button for 3 seconds to turn off the system power. The display is no longer asking power from battery and the leakage current is less than $2\mu\text{A}$.



When you press the  button for more than 5 seconds, there will be 1.3V-3.5V signal sent to the controller, it can push the ebike reaching 6km/h. This function can be used in two occasions:

- a) the rider doesn't want to push hard on pedals at start.
- b) The rider is not on the bike and wants to push the bike, while walking, without any effort.

Both kinds of use will affect the mileage of the bike since the system will use power provided by the battery.

(2) Display interface

Display will show the current speed of the ebike, total distance, trip distance, pedal assistance level, battery capacity.

Current speed is shown in figure 5-1.

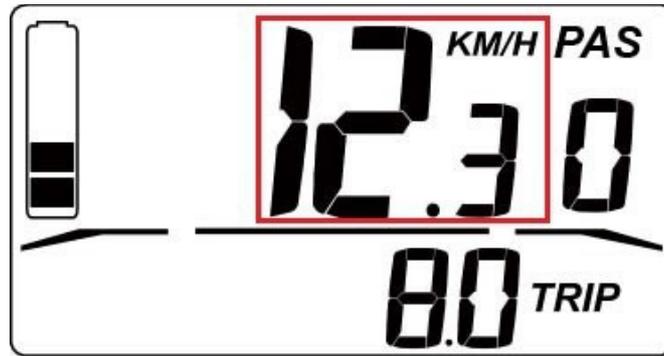


Figure 5-1

Distance is shown in figure 5-2 as ODO, Distance from the last Switch On is showed as TRIP.



Figure 5-2

Pedal assistance level is shown in figure 5-3.

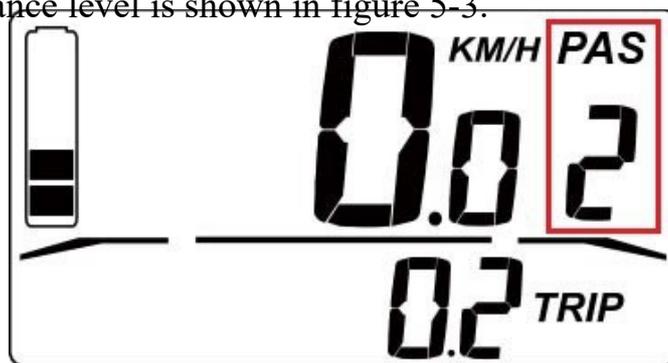


Figure 5-3

Battery capacity is shown in figure 5-4.(The remaining power 2 out 5,it means 40% of the battery capacity is remained)

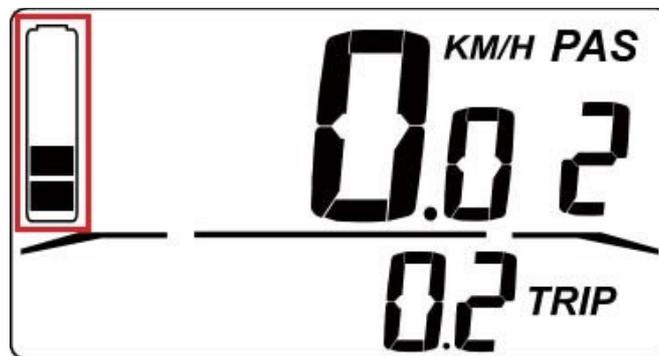


Figure 5-4

(3) Turn on (off) backlight

Clicking  button together with , and after the display initializing for 3s ,

the light starts to work. Holding the two buttons for 3 seconds once the lights are On , the backlight is turned off . If a front and/or a rear light is attached to the e-bike system of the bike the back light functions will be applied also to the connected lights.



You can hold button for 5S to turn off the power of the system.

(4) PAS level selection

When the display is power on , you can shortly click  or  button to adjust the PAS level which will change the output power of the motor. The PAS level is normally set at level 0 when you power on the display , you can adjust it from 0 to 5 ,the operation process is shown in figure 5-5.

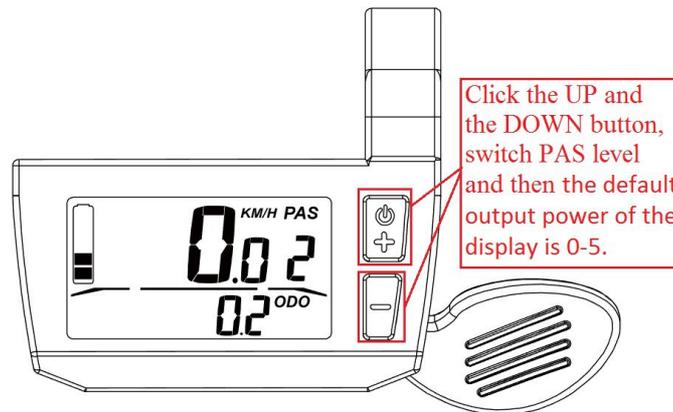


Figure 5-5

(5) Battery indication

There will be five bars shown on the screen if the battery capacity is very high enough. The less bars will show on the screen if the capacity of the battery is less. When the battery is almost dead, the last bar will flash. You need to charge the battery immediately. As shown in figure 5-6.



Figure 5-6

(6)Error code definition

When the ebike drive system fails, it will stop working ,and the display will show the error code on the screen automatically. The error code will not stop showing on the screen until the problem is solved. The reason for the error is shown in the attachment of error code definition table.

Display error code is shown in figure 5-7.

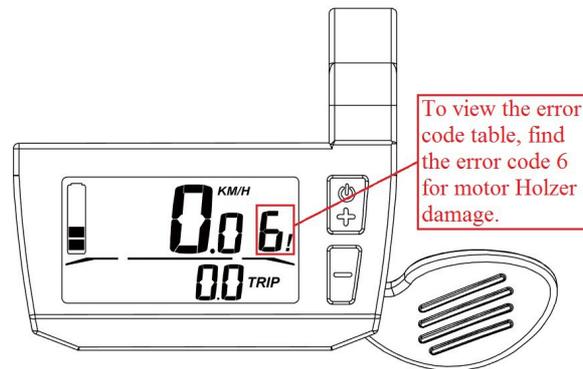


Figure 5-7

6. General setting

(1) Speed unit setting, km/h and mph switching

When the display is power on, you can hold  buttons for 10s to enter into the speed unit settings interface. You can change the speed unit to kilometers or miles

by clicking  or  button.(It will return to the main operation interface if you doesn't click any button in 5s). As shown in figure 7-1 (Default setting is km/h if there is no special requirement)

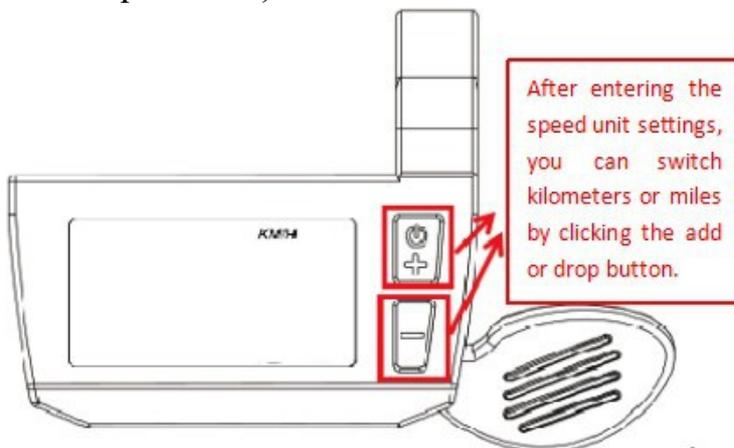


Figure 6-1

7. Maintenance

The 500 display and related electrical Kit do not require special maintenance from the user.

It is maintenance free for the final user except periodical cleaning from mud or dust.

Battery of the system should be charged once the display show that it is at lower level or when the system shut off because out of current.

Charge periodically (at least every 2 weeks) the battery.

Keep the battery at least 50% charged when the bike will be left for long time not used. Batteries that will remain not charged at the lowest level for long time may loose performances or even die.

Use a proper battery charger to charge the battery. For a 36V lithium battery a charger with following specifications is required:

- Max 42V output charging tension
- Min 2A max 4A output charging current.
- 100/240Vac input voltage.
- Costant Current/Costant Voltage functioning system (specific for Lithium batteries). Plug the charger to a Vac socket compliant with the voltage and morphology of the charger itself to charge the battery.

Use a matching connector to connect charger to battery. Do not try to modify a not matching one to connect the battery.

If the user warn a problem during the ride of the bike, it is important to bring the vehicle to a service center.

Before any maintenance operation please be sure that the power of the system is off.

Periodically check that bolts, tightenings and electrical connections are not loose.

Periodically proceed with cleaning of installed electrical components with a wet towel and not with high pressure water.

WARNINGS

- Do not use the electrical system in a dangerous or not intended use
- Do not expose the electrical system to heavy rain or snow
- Pay attention to use correct connector matching if connector removal is required
- On connectors there are indications about correct plug in position. Please do not force connectors during the matching.
- If you want to wash electrical components, please use a wet towel once the system is off.
- Charge at least every 2 weeks your battery with appropriate charger.
- Charge your e-bike with the system switched off and in a dry place.
- This instruction has been translated from the original documentation written in Mandarin Chinese. All cares to be compliant with original meaning have been taken.