

Model C500B-LCD Instructions



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ABOUT THE USER MANUAL

Dear users,

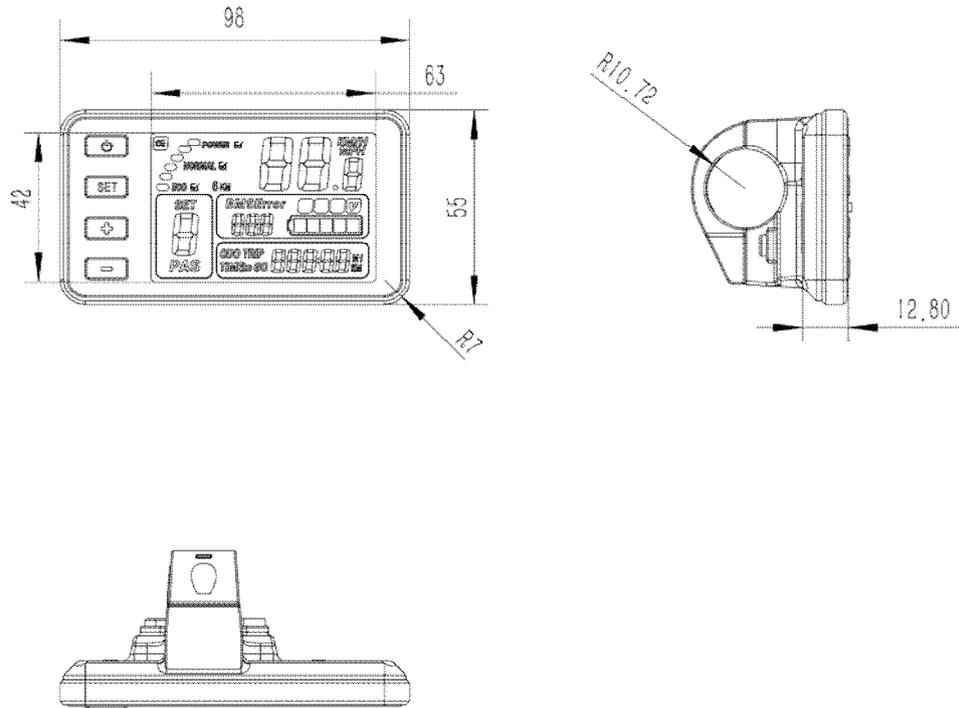
To ensure better performance of your e-bike, please read through the C500-LCD product introduction carefully before using it.

OUTLOOK AND SIZE

MATERIAL AND SIZE

C500B display is made of black ABS and the bracket is made of nylon material. Operating temperature of 0F to 120F.

Dimension figure (unit: mm)



BUTTON DEFINITION

C500B has four buttons including **ON/OFF**、**SET**、**UP** and **DOWN**.
 “ON/OFF” names to “

A diagram showing the mapping between button names and their physical locations on the device. On the left, the names ON/OFF, SET, UP, and DOWN are listed. Dotted lines connect these names to the corresponding buttons on the right: ON/OFF to the power icon button, SET to the button labeled SET, UP to the button labeled +, and DOWN to the button labeled -.

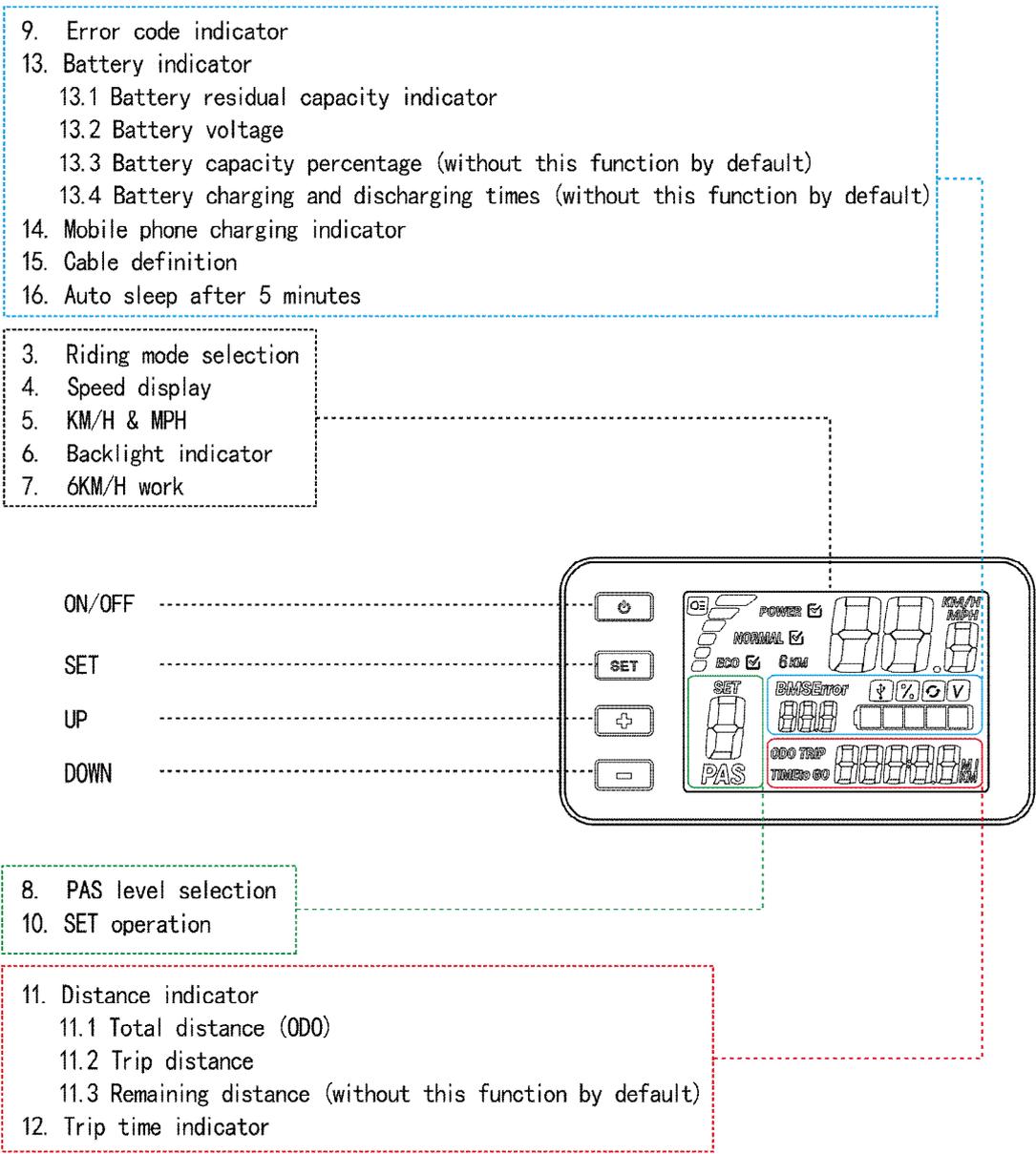
FUNCTION SUMMARY

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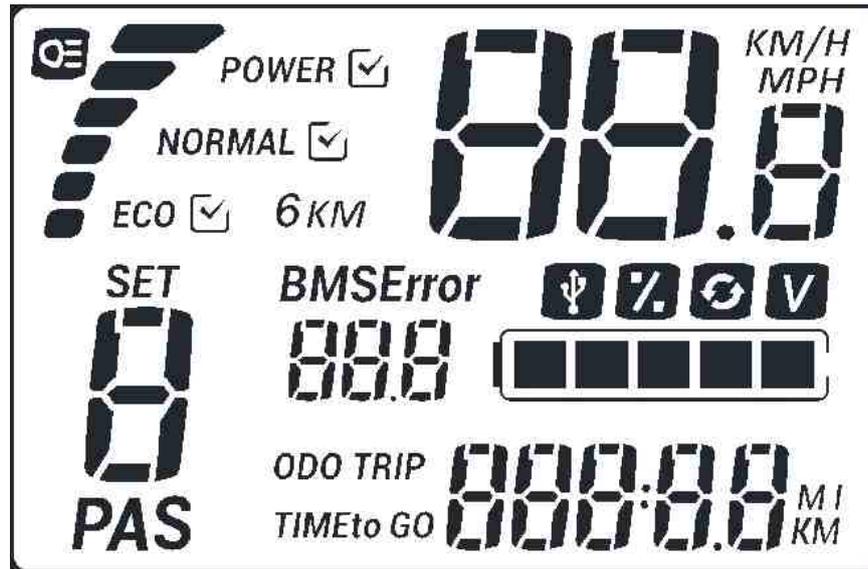
C500B provides a wide range of functions and indicators to fit the users' needs. The indicated contents are as below.

1. ON/OFF
2. Current display
3. Riding mode selection - Optional Not Available On All Bikes
4. Speed display
5. KM/H & MPH
6. Backlight indicator
7. 6KM/H work
8. PAS level selection
9. Error code indicator
10. SET operation
11. Distance indicator
 - 11.1 Total distance (ODO)
 - 11.2 Trip distance
 - 11.3 Remaining distance (**without this function by default**)
12. Trip time indicator
13. Battery indicator

- 13.1 Battery residual capacity indicator
- 13.2 Battery voltage
- 13.3 Battery capacity percentage (**without this function by default**)
- 13.4 Battery charging and discharging times (**without this function by default**)
- 14. Mobile phone charging indicator
- 15. Cable definition
- 16. Auto sleep after 5 minutes

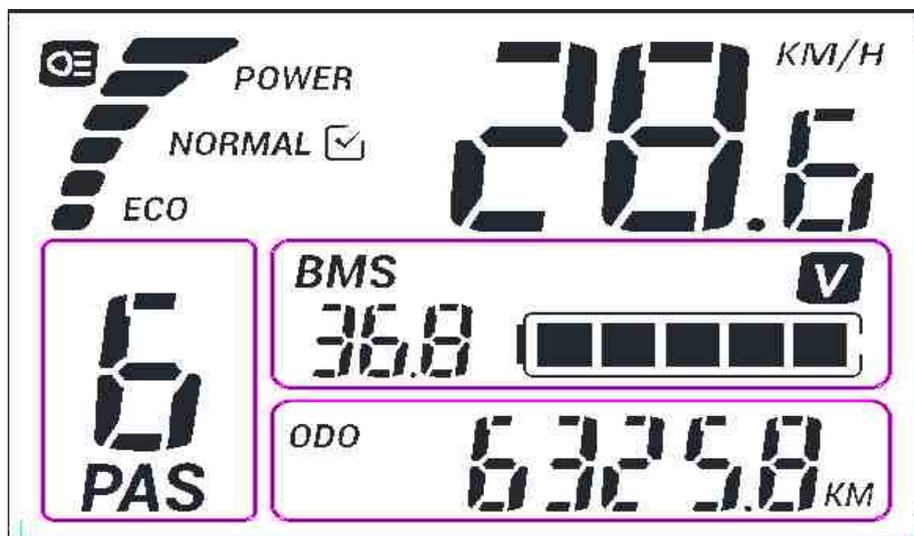


FULL VIEW AREA



NORMAL VIEW AREA

With the display on, the default display are riding speed, ODO, PAS level, battery indicator as show in fig below. Press **SET** to switch the display information. In turn shows: ODO, trip distance and trip time.



NORMAL OPERATION

1. ON/OFF

Hold **ON/OFF** and start the display. The display will provide power for the controller. Hold **ON/OFF** again can open the backlight. With display on, press **ON/OFF** for 3 seconds to turn off the power. With the display off, there is no battery consumption battery power. The leakage current is no more than 2 μ A.

※ The panel will go to sleep when the speed is 0 km/h for 5 minutes.

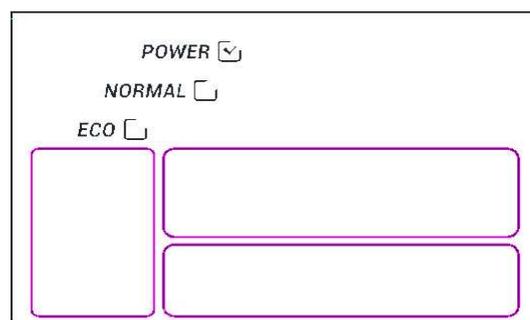
2. CURRENT DISPLAY

That represents the discharging current of the controller currently, each mark is 2A, six segments is ≥ 12 A.



3. RIDING MODE SELECTION- Optional Not Available On All Bikes

There are three modes for riding with arrow selection, including POWER, NORMAL and ECO. The default option is NORMAL.



4. SPEED DISPLAY

The speed display is as below, and user can select KM/H or MPH in SET4.

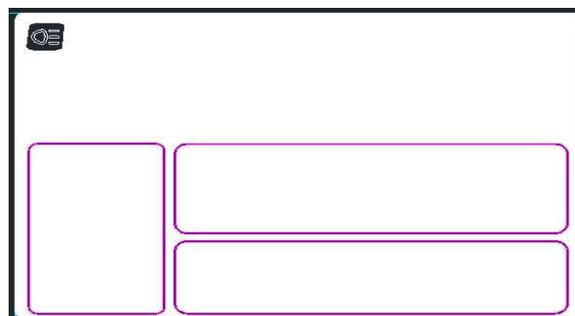


5. KM/H & MPH

Select KM/H or MPH for the speed and mileage, display will be to the currently selected units display.

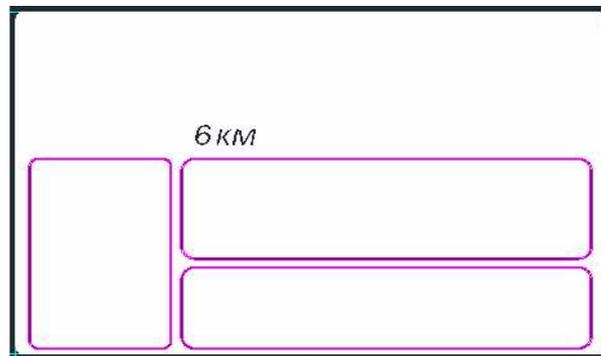
6. BACKLIGHT INDICATOR

With the power on, click the **ON/OFF** and turn on the backlight. Click it again and turn off the backlight.



7. 6KM/H Walking Cruise Control

Hold the DOWN(-) for 2 seconds to get in 6km walking mode to work, and when you release the button the walking mode will stop. The display is as below.



8. PAS LEVEL SELECTION

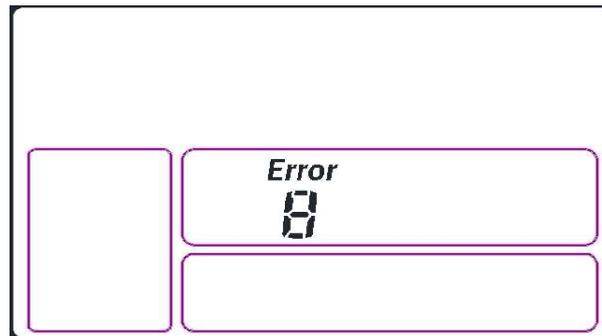
Click UP or DOWN to change the stages and output power ratio, the default mode is mode 6 and its output power range from level 1 to level 5. The default value is level 1.



9. ERROR CODE INDICATOR

If there is something wrong with the electronic control system, the display will flash at 1 HZ and show the error code automatically. See the

last page **Error code table** for details.



※ Display will return to normal only after problem is fixed.

10. SET OPERATION

Hold the **SET** for 2 seconds and enter into the setting interface, then the display will flash at 1 HZ. Click the **SET** to cycle from 0 to 4 setting interface, press **UP** or **DOWN** to select the wanted parameter, and hold the **SET** for 1 second to exit.

10.1: SET1: RESET TRIP DISTANCE TO 0

Click the **DOWN** to reset the trip distance.

10.2: SET2: MAX SPEED LIMITED SETTING

The max speed is 25 km/h for the default, user can modify the value of max speed, when the riding speed exceeds the set value, the controller will stop supplying power to the e-bike, in order to ensure the safety of rider.

※ The max speed value range from 20 km/h to 40 km/h. The max speed displays in speed display area.

10.3: SET3: WHEEL DIAMETER SETTING

Select the suitable value to ensure the accuracy of display with speed and mileage.

10.4: SET4: KM/H & MPH

Select MPH or KMH for the speed and mileage, display will be the currently selected units.

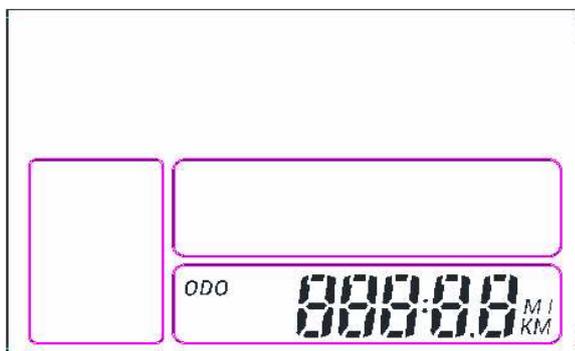
※ Press **UP** or **DOWN** to select parameter, Hold **SET** for 1 second to save and exit.

11. DISTANCE INDICATOR

With the display on, press **SET** to switch the display information, in turn shows: ODO, trip distance.

11.1 ODO

The ODO records the driving mileage, the accumulated value cannot be cleared.



11.2 Trip distance

Trip distance is reset by hand in the **SET 1 interface**. (when the riding mileage ≥ 500 km, it will be resetted automatically. The value will be accumulated without resetting.)

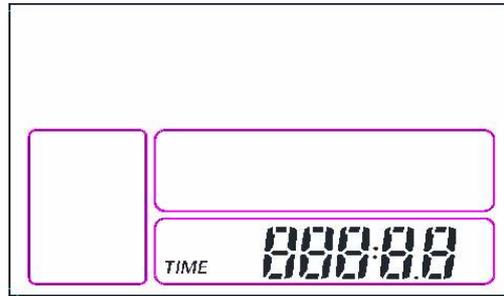


11.3 Remaining distance (the default is no)

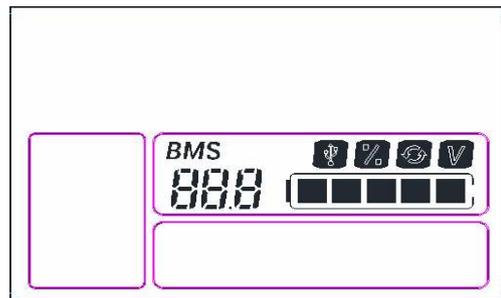
This function need to be customized.

12. TRIP TIME INDICATOR

The riding time parameter is automatically reset after shut down.



13. BATTERY INDICATOR



13.1 Battery residual capacity indicator

The battery indicator has five segments, each segment represent 20% battery capacity. When the battery capacity is full, the five battery segments are all lit. In low battery, the outside edge of the battery frame will flash. It indicates that the battery is severely low and needs to be recharged immediately.



Low battery flash

13.2 Battery voltage

Displays the current voltage of the battery.

13.3 Battery capacity percentage (without this function by default)

Display the percentage of battery capacity. This function needs customization.

13.4 Battery charging and discharging times (without this function by default)

This function needs customization.

※ The panel display the voltage default.

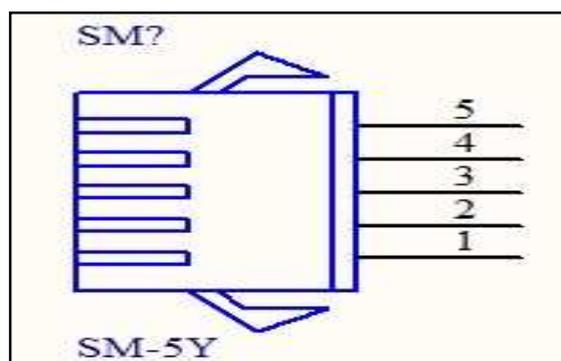
14. MOBILE PHONE CHARGING INDICATOR

Press **UP** and **SET** for 2s and the USB icon will light.



15. CABLE DEFINITION

- 1 Red: Battery +
- 2 Blue: Weak lock
- 3 Black: Battery-
- 4 Green: UART-RECEIVE (RXD)
- 5 White: UART- SEND (TXD)



16. AUTO SLEEP AFTER 5 MINUTES

When the riding speed is 0 km/h for 5 minutes, the system will go to sleep automatically.

QUALITY & WARRANTY

QUALITY & WARRANTY:

The warranty period of 12 months from date of purchase for materials and workmanship.

. OTHER ITEMS:

The following items are not covered in the warranty scope

-
1. Damage due to accident.
 2. The damage caused by wrong installation or operation.
 3. Forced disaster (such as fire, earthquake, etc.) or natural disasters like lightning, etc.
 4. Beyond Warranty period.

ERROR CODE TABLE

The error code corresponds with the fault definition.

Error code	definition
0	normal
1	Current error or MOS damaged
2	Throttle error(Start detection)
3	motor no phase position
4	Hall error
5	Brake error(Start detection)
6	Under voltage
7	Motor stalling
8	communication controller receiving error
9	communication display receiving error