

UPGRADED COLOURED LCD DISPLAY USER MANUL

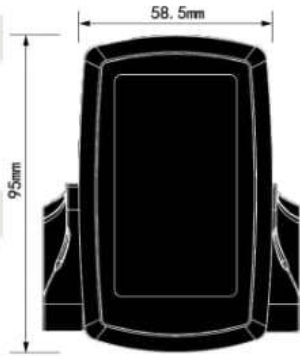


Fig 3-3 Front view dimension



Fig 3-4 Side view dimension

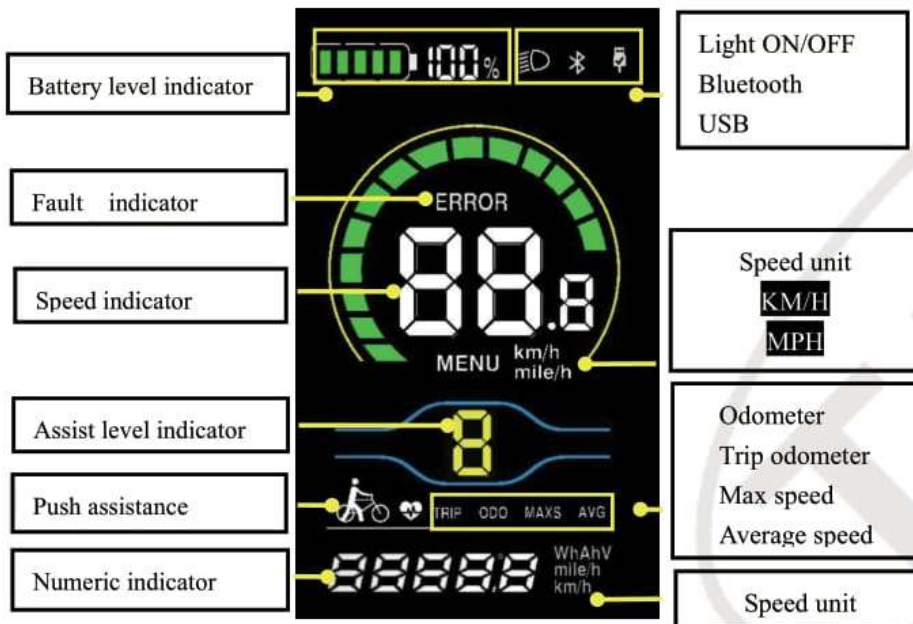
1. Functional overview and Functional area layout

4.1 Function overview






The YL80C-C display offers a variety of functions to suit your riding needs, including:

- Battery level indicator
- Motor power indication
- Pedal assist(PAS) level indicator
- Speed display (current speed, maximum speed, average speed)
- Mileage display (single mileage and total mileage)
- Push assistance control and indication
- Light ON/OFF
- Error code display
- USB connection indicator (optional)
- Heart rate indicator (optional)
- Bluetooth connection indicator (optional)
- Personalized parameter settings (e.g wheel diameter, speed limit, battery power setting and PAS parameter setting, password setting, controller current limiting setting, etc.)
- Factory default parameter recovery function

4.2 Functional areas





4.3 Button definitions

There are five buttons on the operating unit of display YL80C, i.e., the on/off button , plus button , minus button , headlight button  and switching button .


2. General operation

5.1 Power on/off

By pressing and holding the button , the display will start to work and the working power supply of the controller will be turned on. In the power-on state, by pressing the button , your e-bike will be powered off. In the power-off state, the display will no longer use the battery power, and its leakage current will be less than 1 uA.

1 If your e-bike is not used for more than 10 minutes, the display will be automatically powered off.

5.2 Display interface

After the display is turned on, the display will show the real-time speed (km/h) and the trip distance (km) by default. By pressing the button , the information displayed will be switched between the trip distance (km), ODO (km), maximum speed (km/h), average speed (km/h) and riding power.

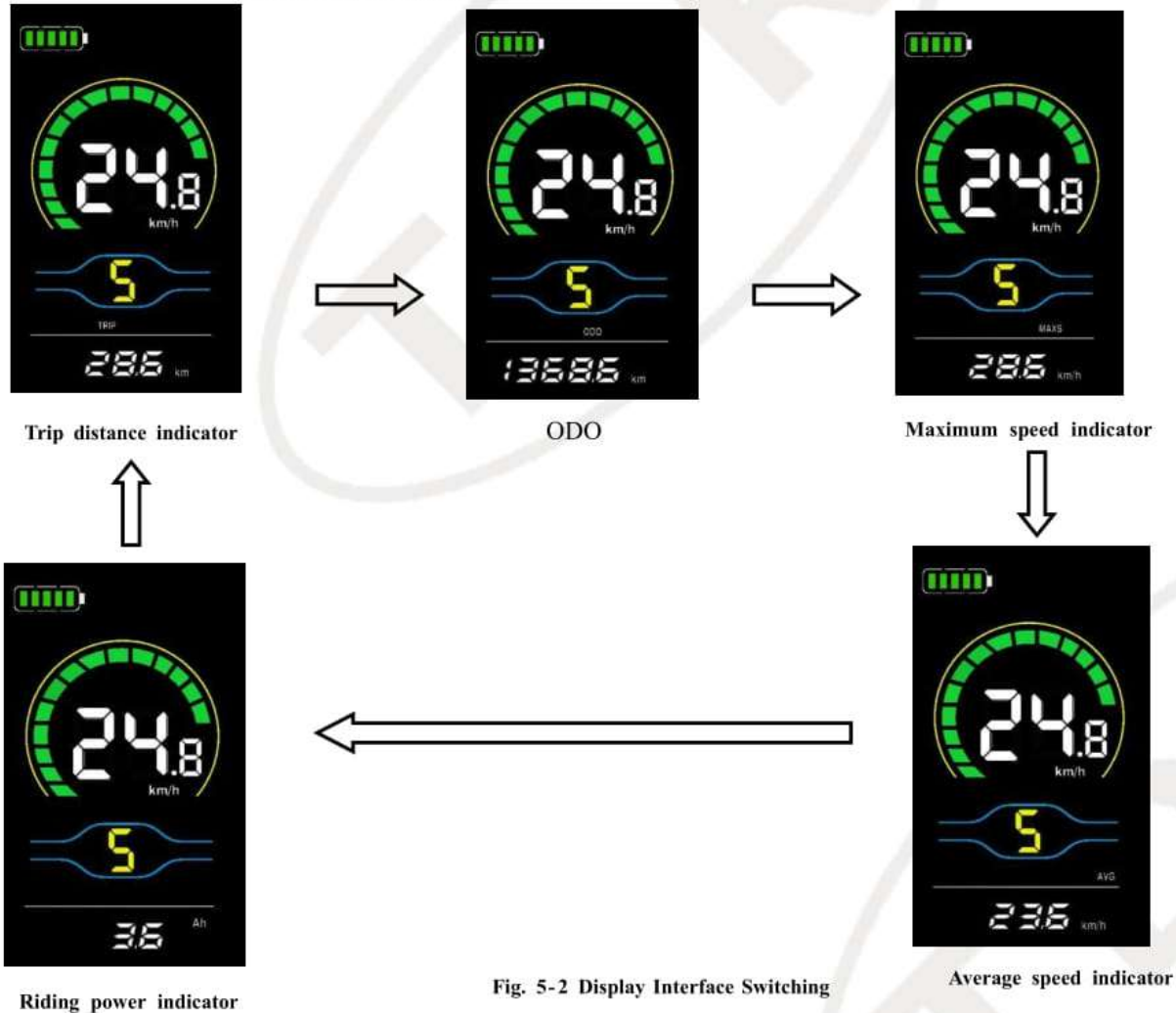







Fig. 5-2 Display Interface Switching

5.3 Push assistance


By pressing and holding the button  , the electric push assistance mode will be enabled. Your e-bike will run at the constant speed of 6km/h. The display will show  . By releasing the button  , your e-bike will immediately stop power output and return to the state before push assistance.

■ The push assistance function can only be used when you are pushing your e-bike. Please do not use it during riding.

5.4 Headlight on/off

By pressing the button  , the controller will turn on the headlights and the display backlight will turn dark; by pressing the button  again, the controller will turn off the headlights and the display backlight will resume the luminance.

5.5 Assist level selection

By pressing the button  , the e-bike assist level will be switched to change the motor output power.

5.6 Battery Display

The battery level indicator consists of five segments. When the battery is fully charged, the five segments will be all on. In case of undervoltage, the outline of the battery indicator will flash, which means the battery has to be charged immediately.

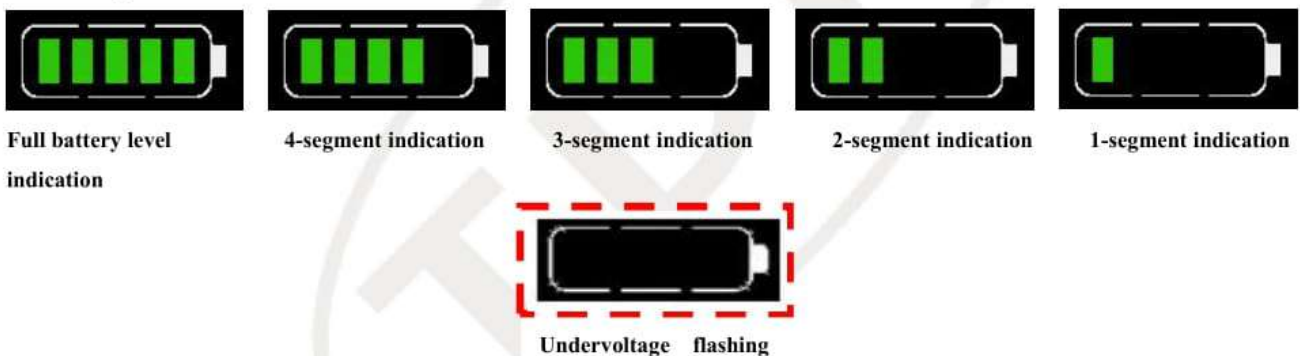


Fig. 5-6 Battery Level Indicator Interface

5.7 Motor power indication

The output power of the motor can be known through the meter. The display method is as shown in the figure below.



5.8 Error code display

When the electric control system of the electric vehicle fails, the instrument will automatically display the error code. For the definition of the detailed error code, please refer to **Appendix 1**.

■ When the error code appears on the display, please troubleshoot the problem in time, the electric bicycle will not be able to drive normally after the problem occurs.

3. General setting

■ Each setting needs to be done with the bicycle stationary.

The personalized parameter setting procedure is as follows:

When the display is ON and the speed shows 0,

- (1) Press and hold **+** **-** simultaneously for more than 2 seconds to enter the personalized parameter setting interface.
- (2) Press **+** / **-** to toggle between the personalized parameter setting interface, and press **i** to enter the parameter changing state.
- (3) Press **+** / **-** to select the parameter, long press **+** for addition operation, long press **-** for subtraction operation.
- (4) Press **i** to save the parameter settings and return to the personalized parameter setting interface.
- (5) Long Press **i** to save the parameter settings and exit the personalized parameter setting interface.

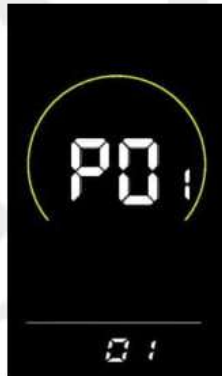
The following options are available on the personalized parameter setting interface:

6.1 Backlight luminance setting

P01 is the backlight brightness setting option, parameters 01, 02, 03 can be set to indicate the backlight brightness, 01 is the darkest, 02 is the standard brightness, and 03 is the brightest.

Press the button **i** to enter the parameter modification interface. Press the button **+** / **-** for parameter selection.

Press the button **i** to save the parameter and return to the selection interface of general setting options.



6.2 Metric/imperial system setting

P02 refers to the metric/imperial system setting option. 00 represents the metric system, and 01 represents the imperial system.

Press the button **i** to enter the parameter modification interface. Press the button **+** / **-** for parameter selection. Press the button **i** to save the parameter and return to the selection interface of general setting options.

6.3 Rated voltage setting

P03 refers to the rated voltage setting option. Available values include: 36V and 48V.

Press the button **i** to enter the parameter modification interface. Press the button **+** / **-** for parameter selection. Press the button **i** to save the parameter and return to the selection interface of general setting options.

6.4 Cruise function setting

P04 refers to the cruise function setting option. 00 represents off, and 01 represents on.

Press the button **i** to enter the parameter modification interface. Press the button **+** / **-** for parameter selection. Press the button **i** to save the parameter and return to the selection interface of general setting options.

6.5 PAS level setting

P05 is the Pedal assist (PAS) level setting. The available Pedal assist level settings are: 0~3, 1~3, 0~5, 1~5.

Press the button **i** to enter the parameter modification interface. Press the button **+**/**-** for parameter selection. Press the button **i** to save the parameter and return to the selection interface of general setting options.

6.6 Wheel diameter setting

P06 is the wheel diameter setting. The adjustable wheel diameter range is: 1~50inch.

Press **i**, to enter the parameter changing state. Press the **+** / **-** to select the parameter and press **i** to save the parameter setting and return to the personalized parameter setting interface

6.7 Number of speed sensor magnets setting

P07 is the speed sensor magnet number setting. The adjustable speed sensor magnet number range is: 1 ~ 100 pcs.

Press **i** to enter the parameter changing state. Press the **+**/**-** to select the parameter and press **i** to save the parameter setting and return to the personalized parameter setting interface

6.8 Speed Limit Setting

P08 is the speed limit setting. The adjustable speed limit range is: 1~100km/h.

Press **i** to enter the parameter changing state. Press the **+**/**-** to select the parameter and press to save the parameter setting and return to the personalized parameter setting interface.

6.9 Start-up setting

P09 is the start-up setting. The display can choose the following start modes: 00→zero start, 01→non-zero start

Press **i** to enter the parameter changing state. Press the **+**/**i** to select the parameter and press to save the parameter setting and return to the personalized parameter setting interface.

6.10 Drive mode setting

P10 is the drive mode setting option. 00 represents power assisted drive, 01 represents electric drive, and 02 represents power assisted electric coexistence

Press **i** to enter the parameter changing state. Press **+** the **-** to select the parameter and press **i** to save the parameter setting and return to the personalized parameter setting interface.

6.11 Pedal assist sensitivity setting

P11 is the pedal assist sensitivity setting, The adjustable range is: 01~24

Press **i** to enter the parameter changing state. Press the **+** / **-** to select the parameter and press **i** to save the parameter setting and return to the personalized parameter setting interface

6.12 Pedal assist strength setting

P12 is the Pedal assist strength setting, The adjustable range is 0 ~ 05

Press **i** to enter the parameter changing state. Press the **+**/**-** to select the parameter and press **i** to save the parameter setting and return to the personalized parameter setting interface

6.13 Type setting of magnetic steel discs for power assist

P13 is the number of pedal assist sensor magnets setting. Three types of magnetic can be selected: 5, 8 and 12 pcs

Press **i** to enter the parameter changing state. Press the **+**/**-** to select the parameter and press **i** to save the

parameter setting and return to the personalized parameter setting interface.

6.14 Controller Current Limit Setting

P14 is the controller current limit setting. The adjustable range is: 1~50A.

Press **i** to enter the parameter changing state. Press the **+** / **-** to select the parameter and press **i** to save the parameter setting and return to the personalized parameter setting interface.

6.15 Battery under voltage value setting

P15 is the battery under voltage setting.

Press **i** to enter the parameter changing state. Press the **+** / **-** to select the parameter and press **i** to save the parameter setting and return to the personalized parameter setting interface.

6.16 Total mileage reset setting

P16 is the total mileage reset setting option, press and hold **+** for 5 seconds to reset 0D0 (total mileage).

6.17 Power-on password setting (optional function)

P17 is the power-on password setting. The power-on password is not activated by default but users can activate it from setting PSd-y. The factory default password is 1212. Users can set other four-digit password. Please keep the password in mind after changing it, otherwise you will not be able to use the display.

Press **i** to enter the parameter changing state. Press the **+** / **-** to select the parameter. Press **i** to save the parameter setting and return to the personalized parameter setting interface.

Schedule 1: Error code definition table

YL-02 (LKLS) protocol error code:		
Error code	State meaning	Process mode
Error05	Brake failure	Whether the brake is in place; replace the brake lever
Error06	Battery undervoltage	Battery charging required
Error07	Motor failure	Check for loose power cables
Error08	Handlebar failure	Check whether the handle is in place; check the link of the handle, if it is normal, you need to replace the handle
Error09	Controller failure	Check controller hall connections
Error10	Communication reception failure	Check if the meter cable is connected
Error11	Communication sending failure	Check if the meter cable is connected