CDC6PRO Specification

Cloud drive intelligent technology Co.,Ltd

Contents

1.About the user manual

Dear users：

To ensure better performance of your ebike, please read through the CDC6PRO 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

The CDC6PRO products use the 3.5-inch LCD screen with a light and beautiful button, double side printed board , nylon buckle and ABS material shell. Under the temperature ranging from -20℃ to 60℃, the shell material can ensure the good mechanical performance of the products.

Real product

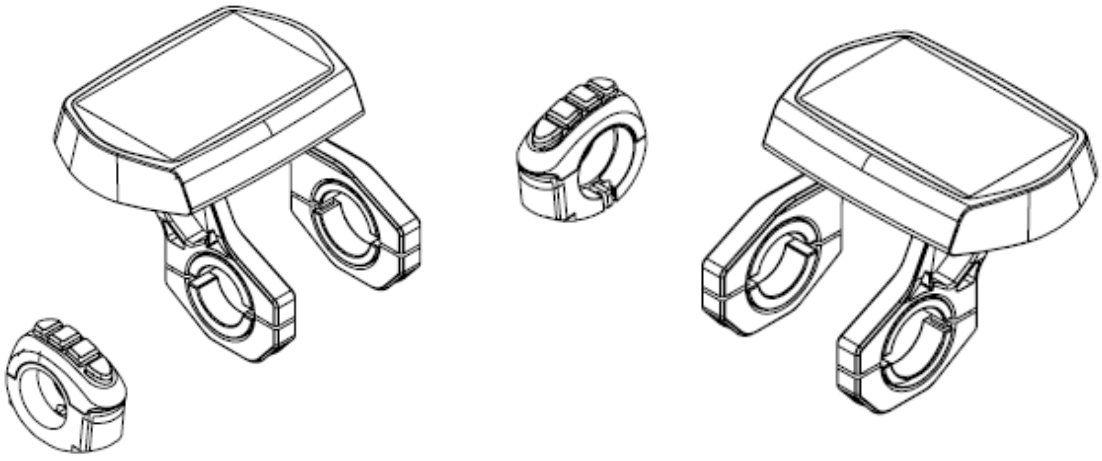
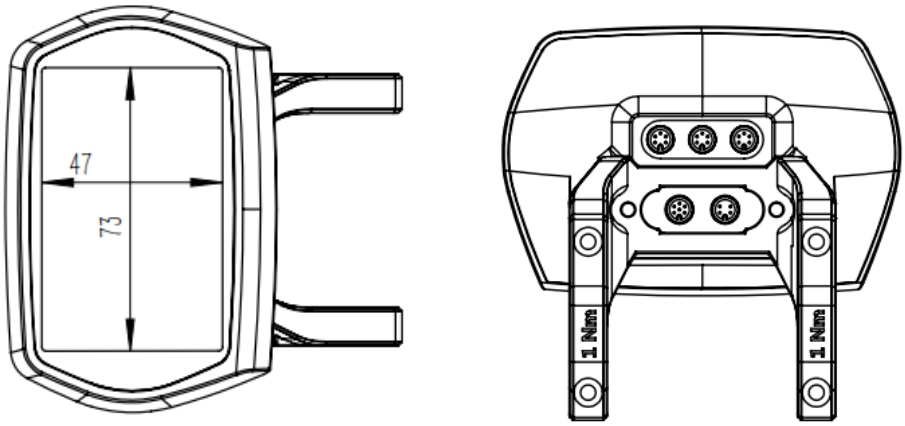


Figure 2-1

Dimension figure :(unit: mm) The diameter of conventional bracket is 31.8mm; If there is a need, we can provide two kinds of diameter changing sleeve, 22.2mm and 25.4mm, to adapt to different sizes of handlebar.



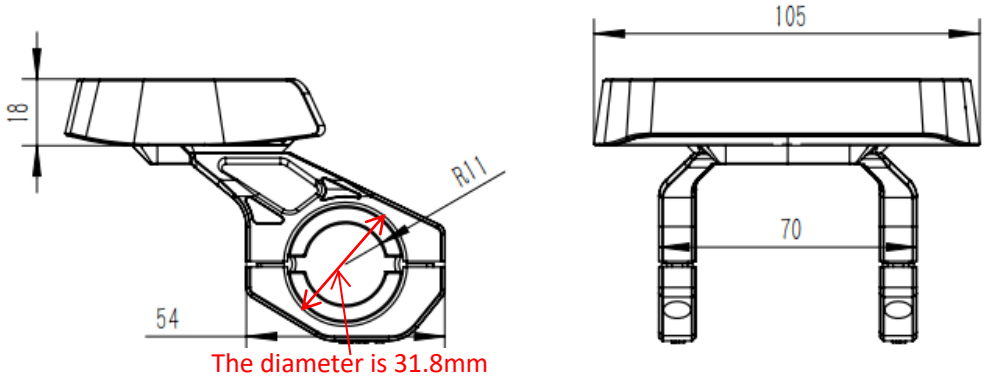


Figure 2-2

3.Function summary

CDC6PRO is a Multifunctional display that integrates 3.5 inch LCD. The one display can match 24V/36V/48V battery. At the same time it integrates 24V, 36V and 48V front lights switch function. With another CDBL_C product of our company will greatly simplify the handlebar cable. The default sleep time of the display is 10min. CDC6PRO function Summary (figure in 3-1)

- Total distance indication
- Riding distance indication
- Current speed indication
- Car lamp display
- PAS level selection
- Battery residual capacity indication
- Error code definition
- Kilometers or miles
- Wheel diameter selection

- USB charging function
- 6Km/h implementation function

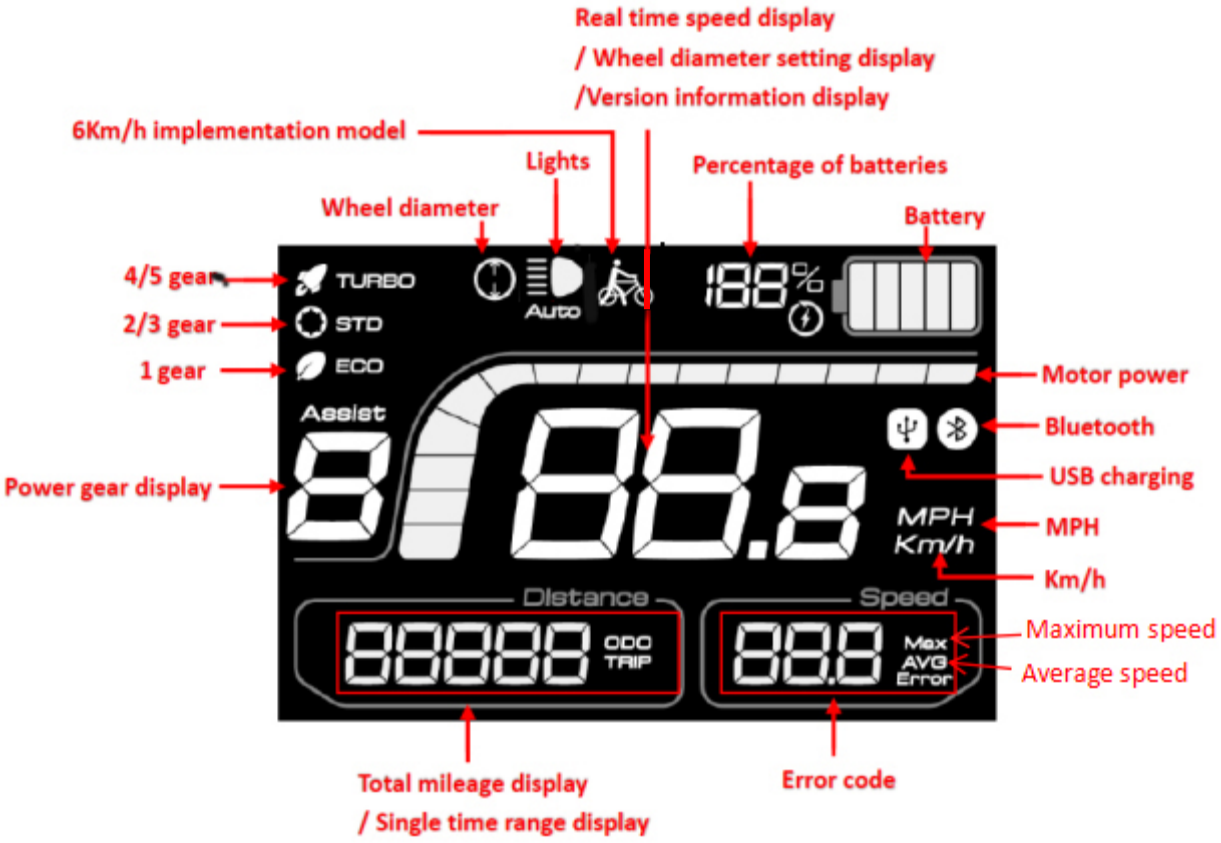


Figure 3-1

Display all

Figure 3-2

Display during use(The backlight is always bright)

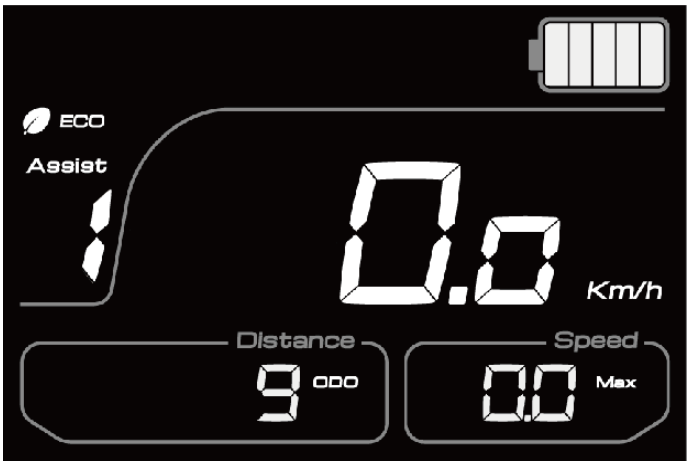


Figure 3-3

4.Button and terminal definitions

(1)Button definition

CDC6PRO has four buttons including SET, UP, DOWN and ON/OFF.

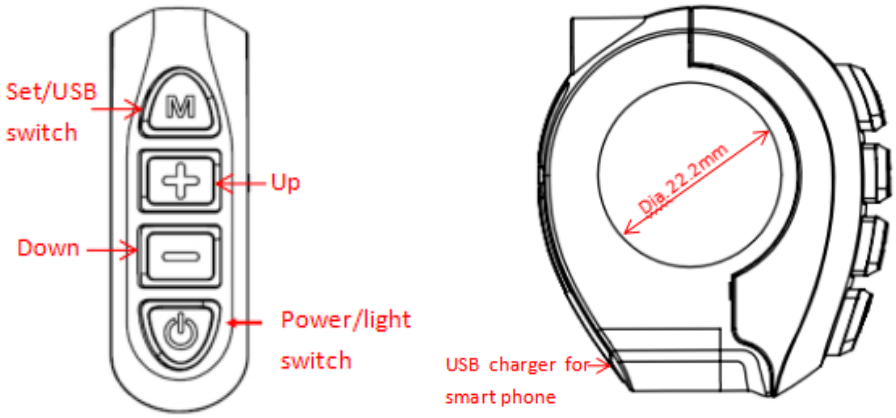


Figure 4-1

(2) Terminal definition

There are five JULET waterproof terminals in the back of the display, including three F39-5pin male terminals, one F39-4pin male terminal and one F39-6pin male

terminal. Please note that the extension cable with F39-5pin female terminal is welding with 2pin light cable or brake cable, or 3pin throttle cable. If you use the F39-5pin female terminal welding with 5pin cable, it may cause failure, which is not covered by warranty. As shown in figure 4-2.

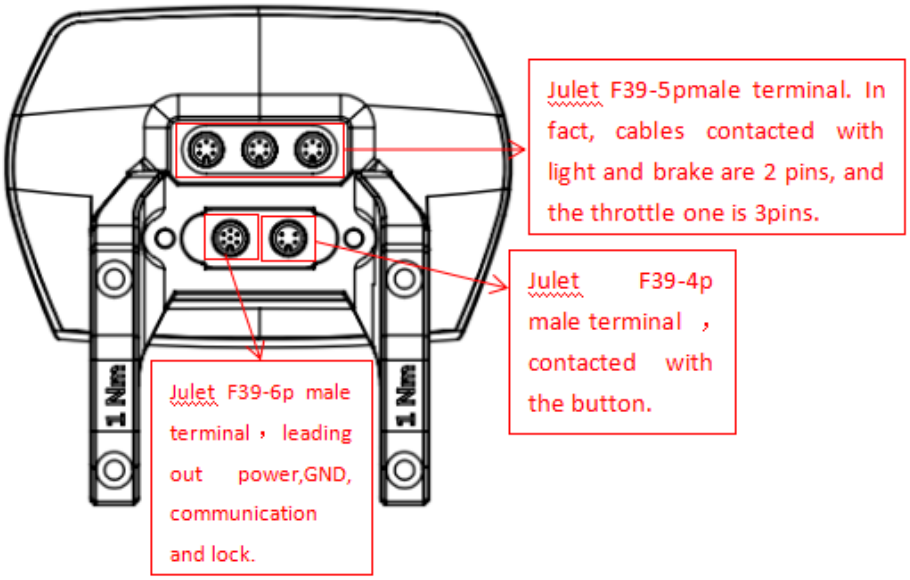
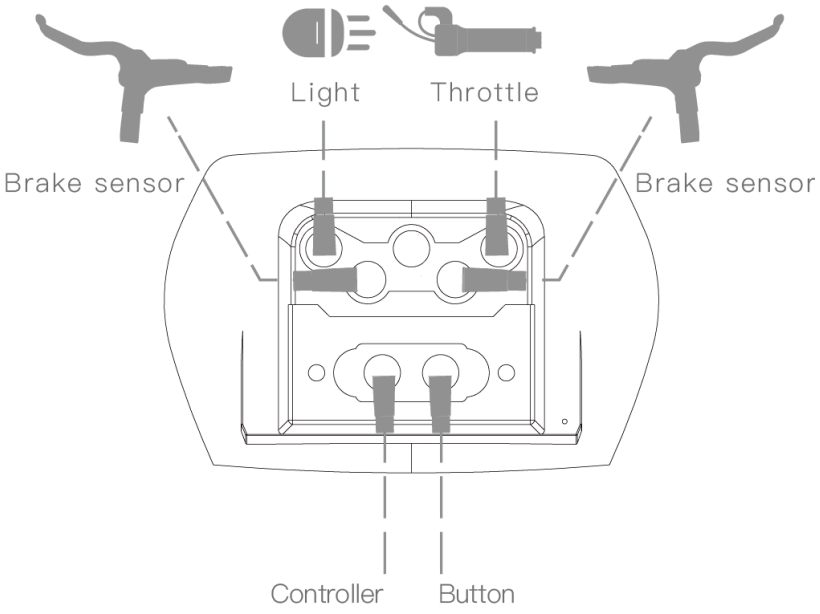


Figure 4-2



5.Installation instructions

The display and button will be fixed on the handlebar, and then adjust the angle of view, and the button will be installed in the easily controlled position. Tighten the screws to finish the installation.

Insert the buckle into the vehicle

Tighten the screws to finish the installation

6.Normal Operation

(1) Display on/off

By clicking button, the display starts to work. You can hold button for 3 seconds to turn off the display. The display is no longer cost the battery power. The leakage current is less than 2μA. The operation process is shown in figure 6-1:

Figure 6-1

(2) Turn on/off the front lights

When the display is power on, click button to turn on the lights. Then clicking button again, the front lights are closed. The operation process is shown in figure 6-2: (The lights are open)

Figure 6-2

(3)Opening/closing of USB charging function

When the display is power-on, click SET button to set up the USB charging function. Then clicking SET button again, the USB charging function is closed. The operation process is shown in figure 6-3: (The USB charging function is open)

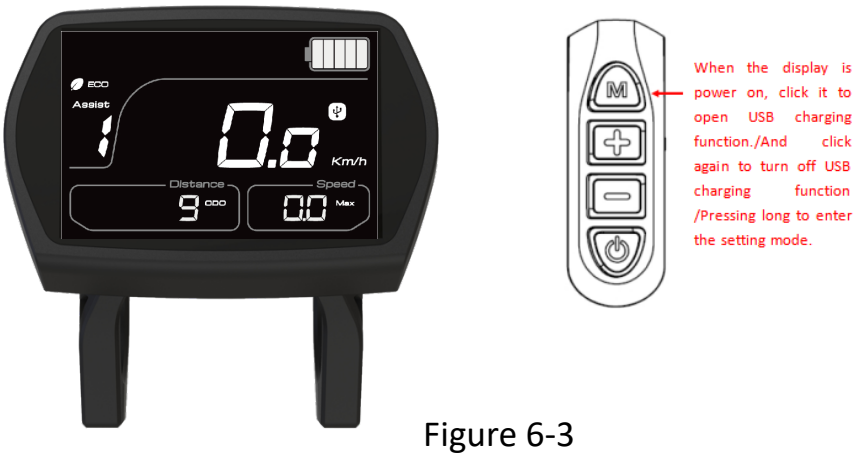


Figure 6-3

(4) PAS level selection and 6Km/h implementation mode

When the display is power on, you can 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 1 when you power on the display, which you can adjust from 0 to 5. The long pressing − key will enter the implementation mode of 6Km/h. The operation process is shown in figure 6-4: (6Km/h implementation mode)

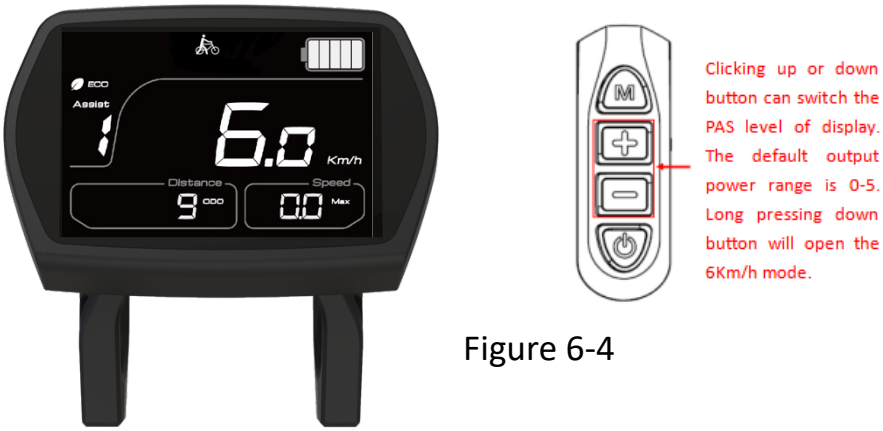


Figure 6-4

(5)Display interface

The display will show: current speed, total distance, single distance, power-assisted level, power, error code, motor power information and other modes.

The current speed is shown in figure 6-5

Figure 6-5

The total distance is shown in figure 6-6

Figure 6-6

The single distance is shown in figure 6-7

Figure 6-7

Pedal assistance level (level 3 in below figure) is shown in figure 6-8

Figure 6-8

The battery power (the current remaining power is 3) is shown in figure 6-9

Figure 6-9

(6)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 6-10

Figure 6-10

(7)Error code indication

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. The error code is shown in figure 6-11.

Figure 6-11

(8) Motor power indication

The controller will feedback the motor power to the display, so that the display can show it in real time. The riding power is shown in figure 6-12

Figure 6-12

7. General setting

(1)Speed unit setting

Long pressing SET button will enter the speed unit setting interface. The unit will be switched by clicking + or − button. If there's no operation in 10s, the dashboard will automatically exit the speed setting interface, as shown in figure 7-1

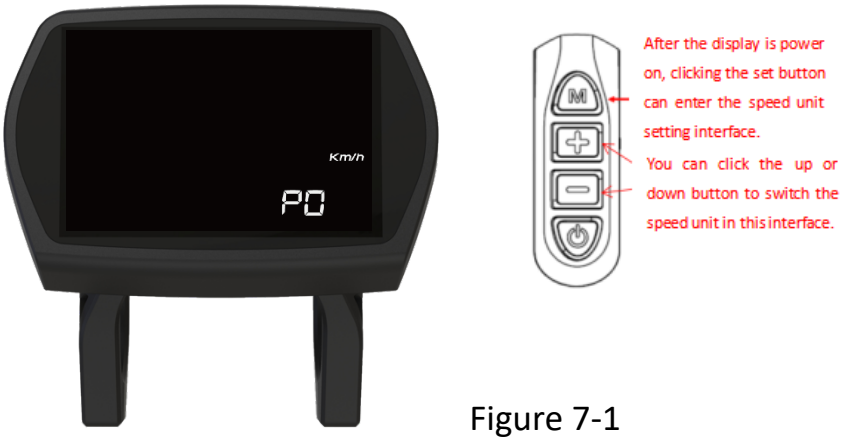


Figure 7-1

(2) Wheel diameter selection

After setting the speed unit, clicking 

key will enter the the password entry interface. Entering the default password 1919, will enter the wheel diameter setting interface, with the following wheel diameter parameter selection,shown in figure7-2

轮径值
12寸（957mm）
16寸（1272mm）
18寸（1350mm）
20寸（1590mm）
22寸（1770mm）
24寸（1948mm）
26寸（2072mm）
27寸（2210mm）
28寸（2260mm）
29寸（2313mm）

Figure 7-2

By clicking  or  button, you can select the corresponding wheel diameter to ensure the accuracy of meter speed and distance indication. The factory default wheel diameter is 28C. The wheel diameter setting is shown in figure 7-3: (the wheel diameter in the figure is 28C)

Figure 7-3

(3) Voltage information

After finishing the wheel diameter setting, click SET button, it will show the voltage of your display. It can match the voltage of 24V/33V/36V/ 48V/52V, as shown in figure 7-4 : (the default voltage value is 28V)

Figure 7-4

(4)Version information

After finishing the speed unit setting,click SET key, it will enter into the software version information interface. We can better identify the system state by reading the software version to find out the original source code to better serve you. The version information is shown in figure 7-5: (the current version is U1.7)

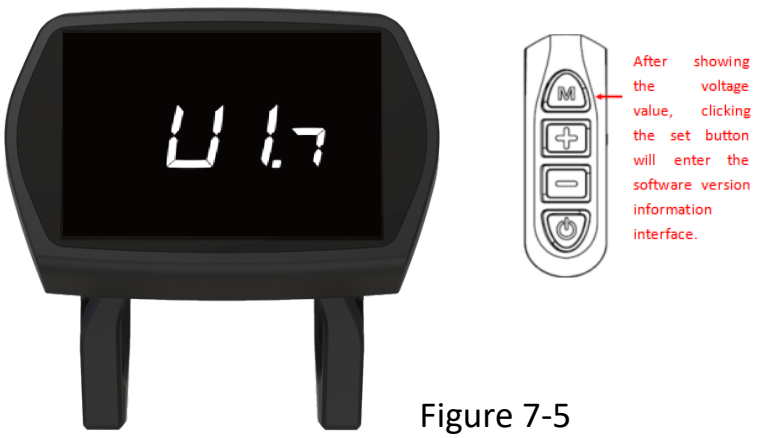


Figure 7-5

8.Cable outlet define

CDC6PRO is the multifunctional LCD display which has the 6 pin terminal outlet define, the use of 24V/36V/48V battery voltage supply, followed by the power of the positive, ground, weak lock, communications R, communications T, brake. Wiring mode is shown in figure 8-1.

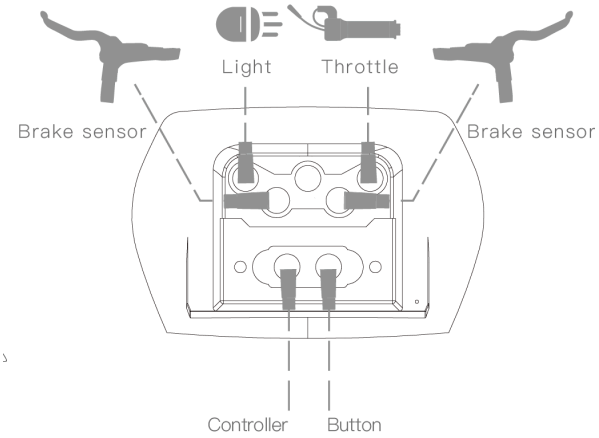


Figure 8-1

The display can match our special product the light bracket CDLB1, matching the light CD-Shiny40, as shown in figure 8-2.

Figure 8-2

Cloud drive intelligent system wiring diagram： CDC6PRO+ CDBL_C+ CDD4+ CD_2H18. As shown in the Figure 8-3：

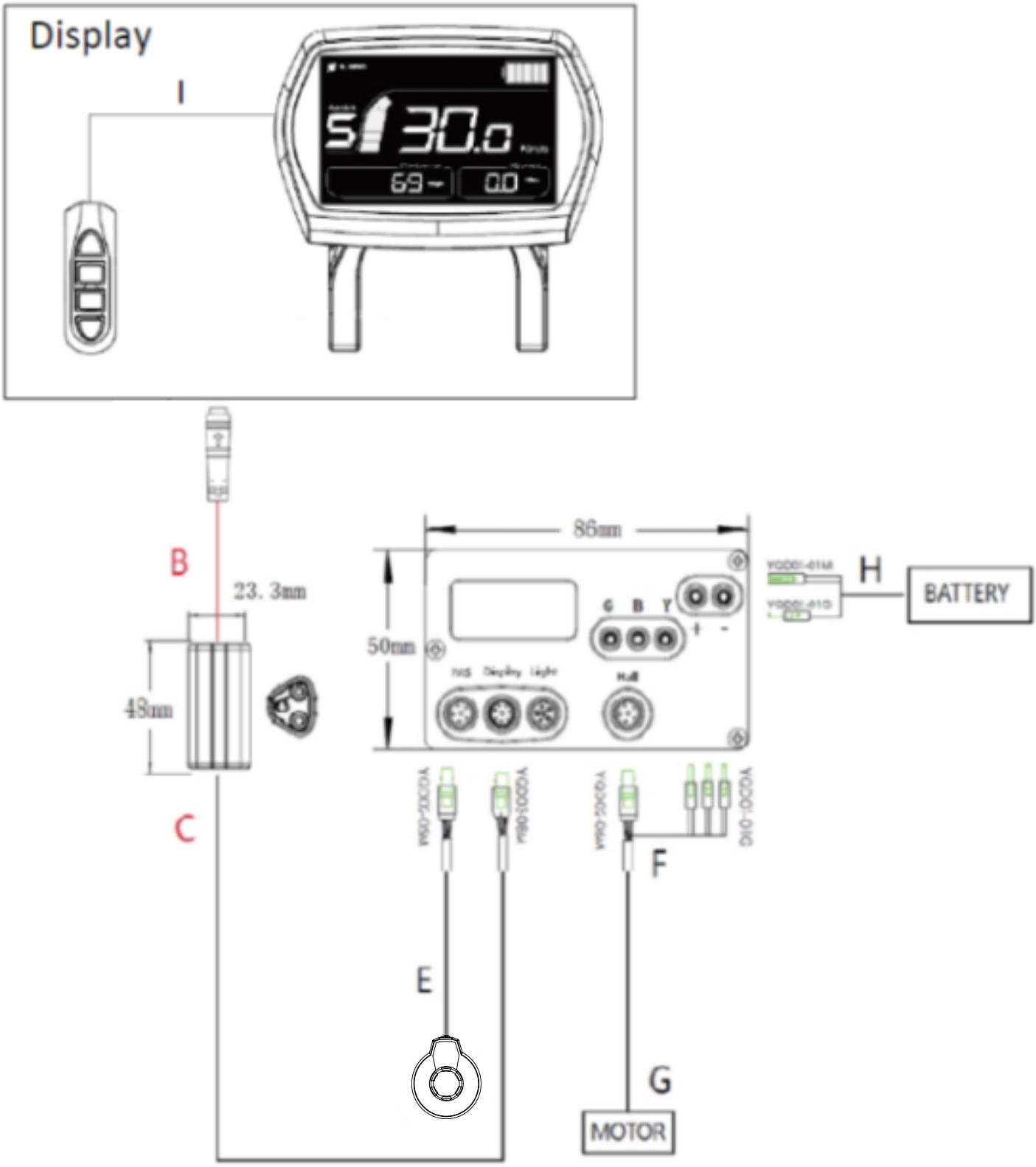

Display
I
30.0
69
0.0
B
23. 3mm
48mm
C
86mm
50mm
G B Y
H
BATTERY
E
F
G
MOTOR

Figure 8-3

9.Q&A

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

A：Check the connector that between display and controller.

Q：How to deal with the error code?

A：Fix it to the maintenance place immediately. If it cannot be resolved, you can go to the electric vehicle repair points repair it in a timely manner.

10.Quality assurance and warranty scope

Warranty

（1）Under warranty, our company will shoulder the responsibility to provide limited warranty to any faults caused by the quality of the product under normal use.

（2）The warranty period lasts for 18 months since the date of purchase.

Other items

The following items does not belong to warranty scope

（1）Disassembly or modification without authorization.

（2）Malfunction or damage caused by the misuse or improper installation and debugging by the users or the third party.

（3）Shell scratch or breakage after leaving the factory.

（4）Wiring scratch or breakage.

（5）Malfunction or damage caused by the force majored (fire, earthquake etc.)

or natural disasters (lightening etc.)

（6）Beyond Warranty period.

Error code definition table

error code	definition
2	Over current protection is checked by the controller. Check whether the connectors of three-phase power cable and the hall signal connectors are badly connected . There is something wrong with the controller or motor if the problem is still present after reconnect the connectors.
3	The controller can't properly drive the motor : Check whether the connectors of three-phase power cable and the hall signal and the power supply connectors are badly connected .Or there is not enough power to drive the system than 2S, such as climbing or the wheel is stuck . There is something wrong with the controller or motor if the problem is still present after reconnect the connectors.
4	Battery voltage is too low to protect, under voltage protection.
5	After the system power on , check whether the brake is working properly.If the brake signal is less than 0.75V for very a long time, there is something wrong with the brake.

6	Check whether the hall commutation signal of the motor is faulty or not. Check the connector of the motor's hall signal cable is disconnected or not. The hall of motor maybe broken if the problem is still present after reconnect the connectors.
7	After the system power on, check whether the throttle is out of control or the throttle signal is less than 0.75V ,or customer turns the throttle before the system works, the error can be solved after throttle is reset.
8	The controller is broken.
A/10	The display and the controller have communication problems , the yellow cable is not connected.
D/13	The controller program is wrong or the 5V is wrong, check whether the brake signal short with 5V.

F/15	The display and the controller have communication problems, the green cable is not connected, or the communication protocol doesn't match.

If there is something wrong with the 5 cables between the controller and display:

(1)If the display can't power on and there is no display on the screen, the reasons may be: the power supply connector between controller and battery is not connected well or there is something wrong with the cable (the red, black ,blue cable of any 1 cables) between display and controller.

(2)If the display is turned on, but after working 3 seconds stop working. The reasons may be: the connection (the green, yellow cable) between the display and the controller is open circuit.

The error code explanation is based on the correct system from

Cloud drive intelligent technology Co.,Ltd