
CDC6 Specification

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1.About the user manual

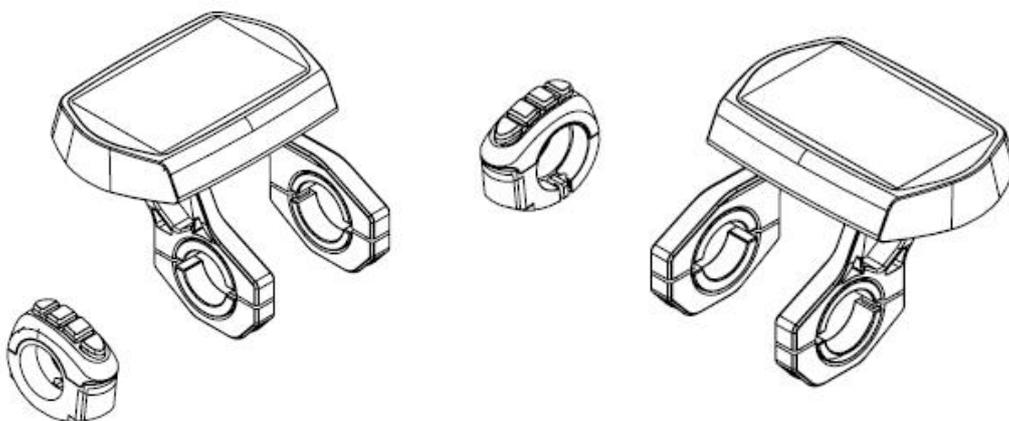
Dear users:

To ensure better operation of your ebike, please read through the CDC6 inspection carefully before using it. We will inform you of all the details, including the installation and setting of the hardware and normal operation of the display with the most concise words. Meanwhile, and help you to solve all the puzzles and obstacles.

2.Material and external dimensions

The CDC6 product is used with a 3.5-inch LCD screen and a light and beautiful button. The black with the texture of abrasive, the appearance is exquisite. The display interface is clear, the backlight is always bright, and it can be seen clearly in a ray of sunlight. It uses double PCB, ring of nylon material, ABS material of the shell, which allowed in - 20 °C to 60 °C temperature in normal use, and can guarantee the good mechanical properties.

Real product



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Figure 2-1

Dimension figure :(unit: mm)

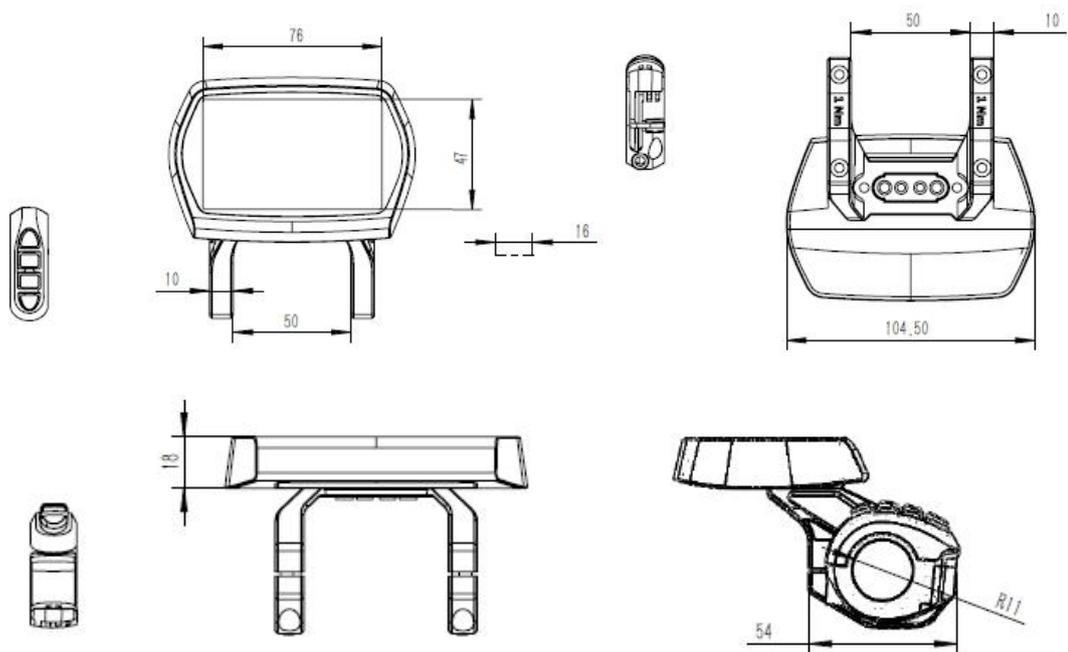


Figure 2-2

3.Function summary

CDC6 is a Multifunctional display that integrated 3.5 inch LCD. The same display can match 24V, 36V, 48V battery. At the same time integrated 24V, 36V and 48V headlamps 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.CDC6 function Summary (Figure in 3-1)

- ◆ Total distance indicator
- ◆ Riding distance indicator
- ◆ Current speed indicator
- ◆ Car lamp display
- ◆ PAS level selection
- ◆ Battery residual capacity indicator
- ◆ Error code definition
- ◆ Kilometers or miles
- ◆ Wheel diameter selection
- ◆ USB charging function
- ◆ Bluetooth function (customer requirement customization)
- ◆ 6Km/h implementation function

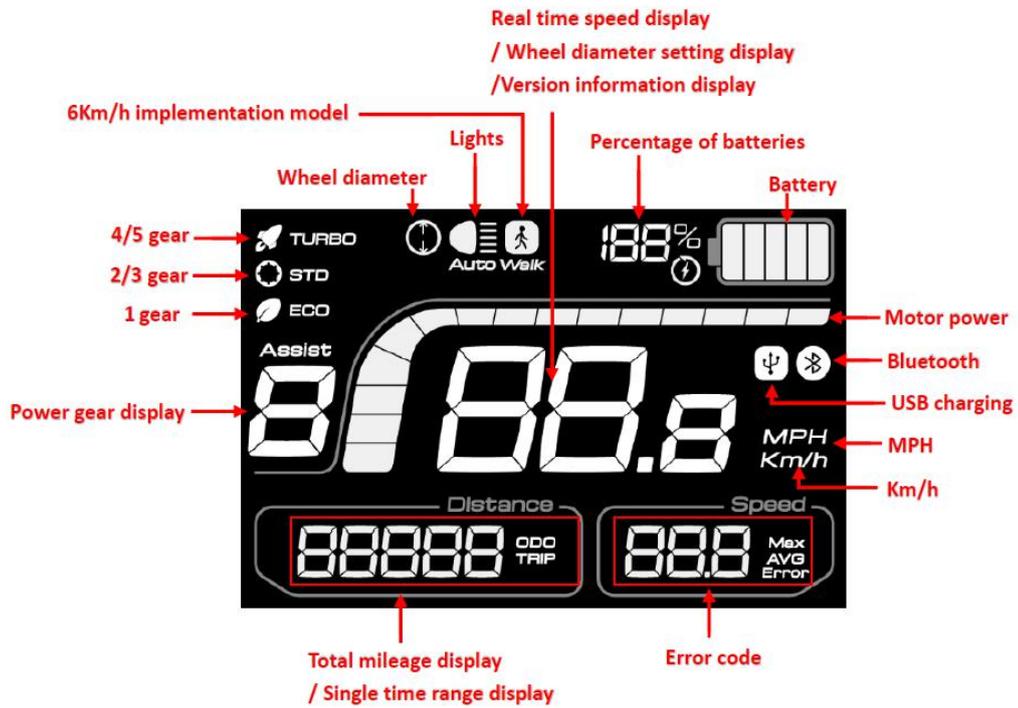


Figure 3-1

Display all

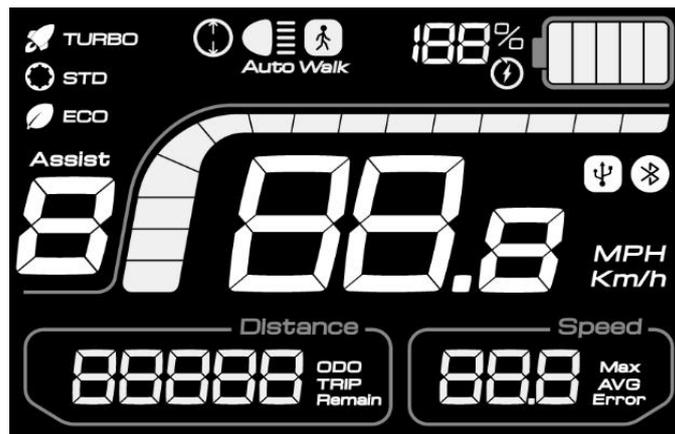


Figure 3-2

Normal viewing area (A backlight often lights up)

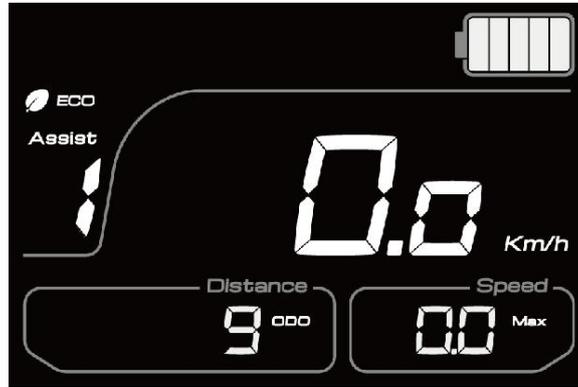


Figure 3-3

4.Button definition

CDC6 has four buttons including SET 、 UP、 DOWN and ON/OFF.

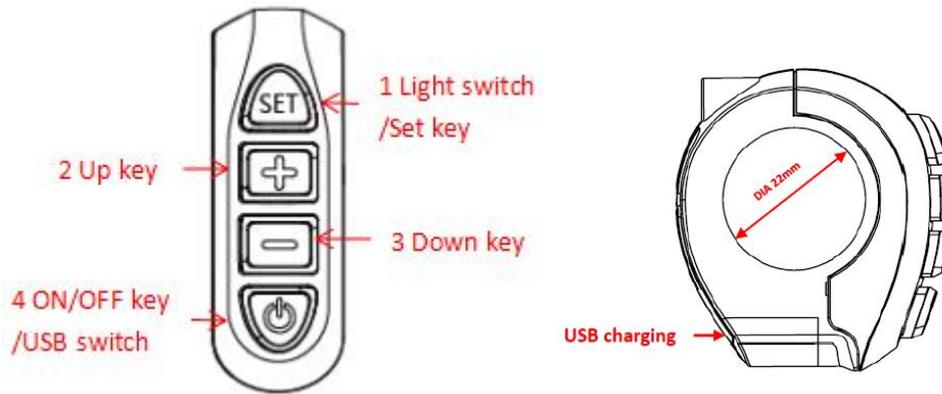


Figure 4

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 complete the installation.



Insert the buckle into the vehicle



Tighten the screws to complete the installation.

6.Normal Operation

(1) Display on/off

After touching  button,

the display starts to work and provides circuit board

analog circuit working power. In the boot state, clicking  button for 3 seconds

will switch off the display . In the shutdown state, the display no longer uses the

battery power, and its leakage current is less than $2\mu\text{A}$. The operation process is shown in figure 6-1:



Figure 6-1

(2) Turn on/off of headlights

In the state of power on, click  button to turn on the light, and then clicking  button again, the headlights are closed. The operation process is shown in figure 6-2 :(the lights are on)



Figure 6-2

(3)Opening/closing of USB charging function.

In the state of power-on, click  button to set up the USB charging function, and then click  button again, the USB charging function is closed. Pressing  key for a while will enter the setting mode, and can set the wheel speed and other information.

The operation process is shown in figure 6-3 : (USB open state)



Figure 6-3

(4) Assisted selection and 6Km/h implementation mode.

In the state of power-off, click  and  button at the same time to switch the power of the power-assisted gear, and change the output power of the motor. The default output power range of the display is 0-5 level, which is adjustable. 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 indication interface

When the ebike is riding, the circuit board transmits the speed value monitored by the speed monitoring device to the display screen for display. When the speed sensor works, it will sent the speed signal to controller, which will adjust the motor speed, and feedback it to the display at the same time. The display indicates: current speed, total distance, single distance, power-assisted level, power, error code, motor power information and other modes.

TCurrent speed units can be displayed in kilometers and miles, which can be set in the setting modes (See chapter 7 for details). The actual display speed is only shown in one unit. It is impossible to show two units simultaneously. As shown in figure 6-5 :(figure 6-5 is only for illustration)



Figure 6-5

The total distance is shown in figure 6-6:

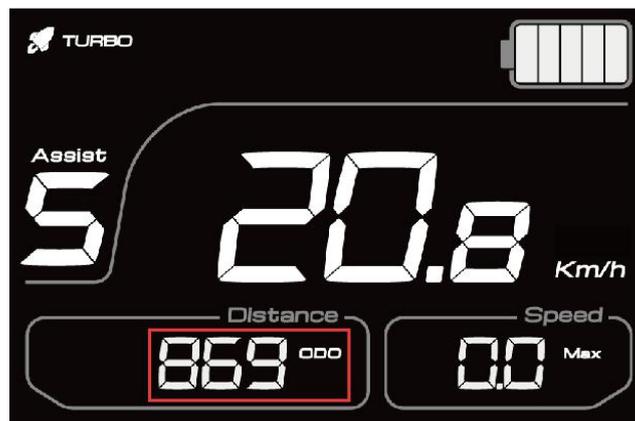


Figure 6-6

The single distance is shown in figure 6-7:

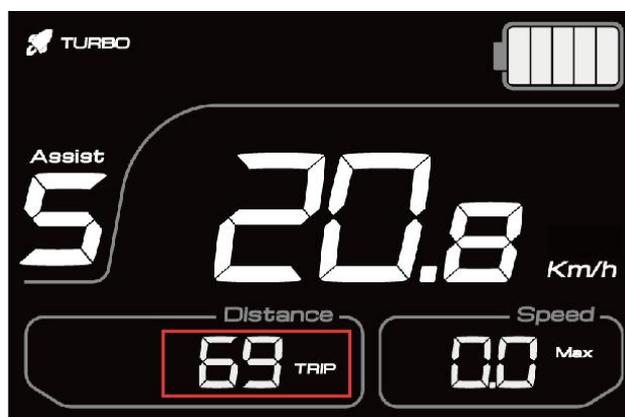


Figure 6-7

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)Electricity display

When the battery's power is full, the five parts are all bright; when the battery is under voltage, the last one flashes and needs to be recharged immediately. As shown in figure 6-10:

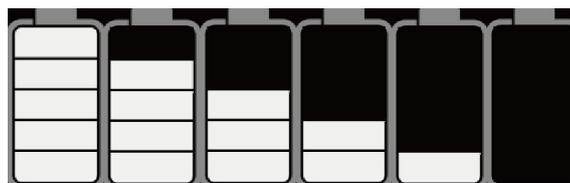


Figure 6-10

(7)Error code display.

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 display error code is shown in figure 6-11:

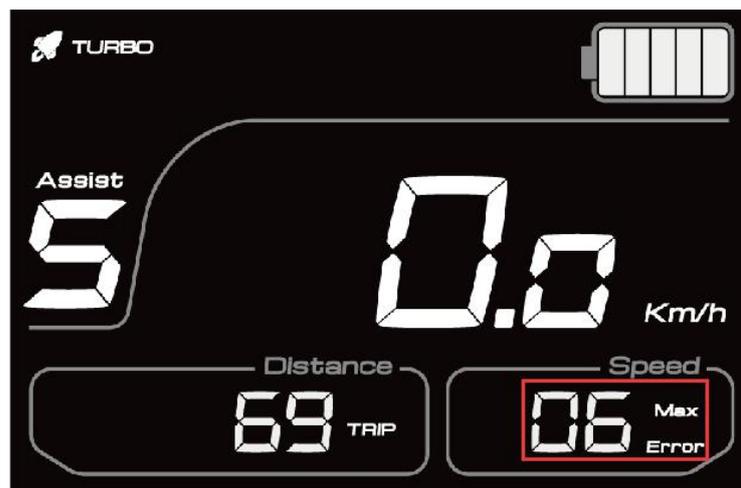


Figure 6-11

(8) Motor power display

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

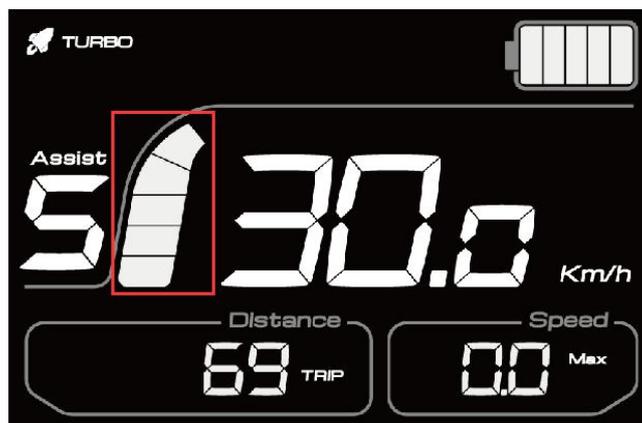


Figure 6-12

7.General setting

(1) Wheel diameter selection

Long pressing  key will enter the wheel diameter setting interface, with the following wheel diameter selection. As shown in figure7-1:

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 7-1

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By clicking  or  button ,select the corresponding wheel diameter of the ebike to ensure the accuracy of meter speed and mileage display. If no operation is performed for up to 10 seconds, the dashboard will automatically exit the wheel diameter setting interface, and the factory default wheel diameter is 24C. The wheel diameter setting is shown in figure 7-2 :(the wheel diameter in the figure is 24C)

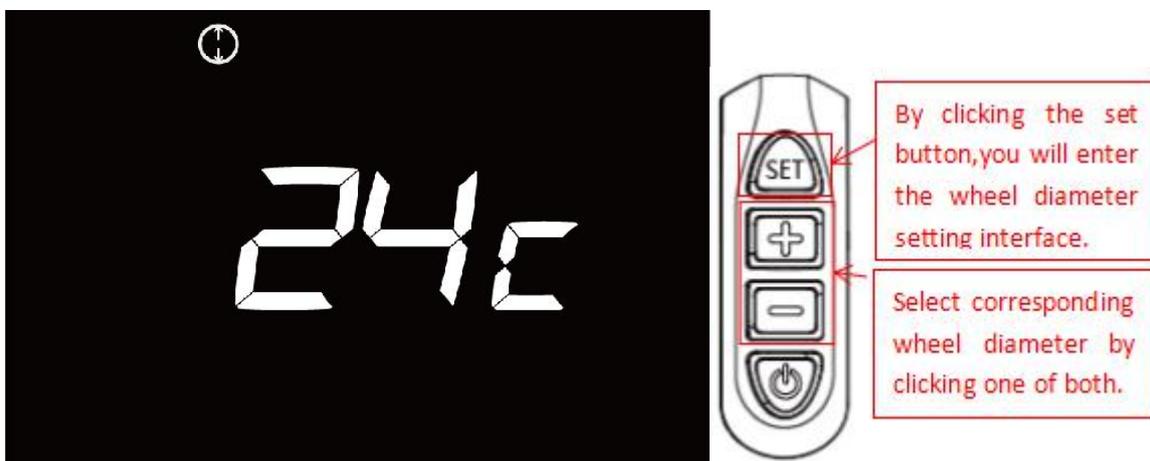


Figure 7-2

(2)Speed unit setting

After clicking  key, the first step is to enter the wheel diameter setting interface, and then press  button to enter the setting interface of the speed unit. And then, the unit will be switched by  or  key. If there is no operation in 10 seconds, the dashboard will automatically exit the speed setting interface. The unit switching settings are shown in figure 7-3:

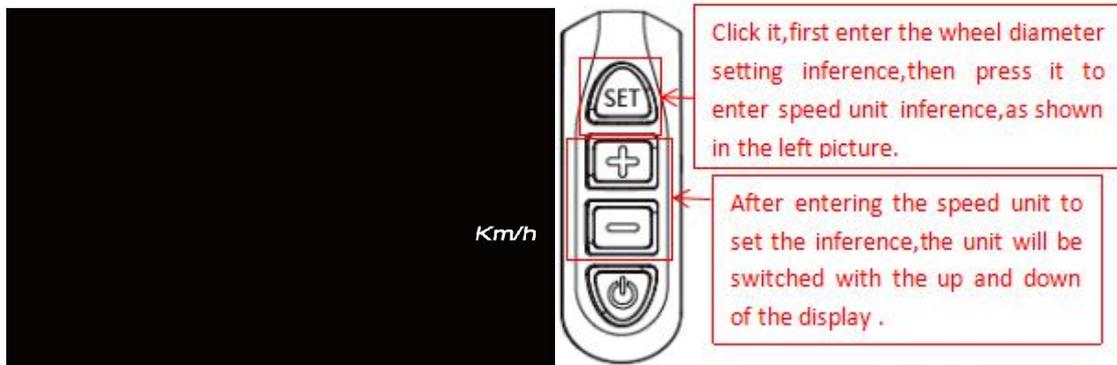


Figure 7-3

(3)Version information

After finishing the speed unit setting, click  key and you can see version information of display. After viewing, no operation is required within 10 seconds, and the dashboard will automatically exit the version interface. The version information is shown in figure 7-4 :(the current version is U2.1)

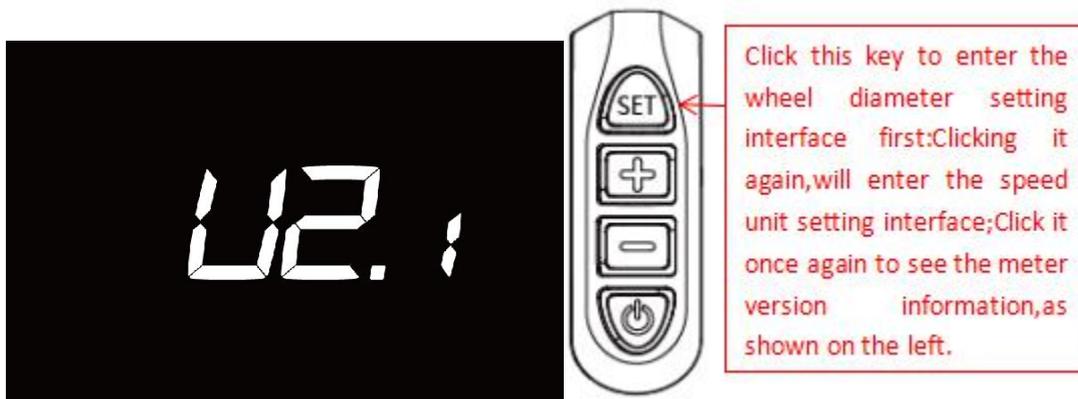


Figure 7-4

This display is the use of manual Shanghai Cloud Drive Intelligent Technology Co., Ltd. general software version (CDC6 version) operating instructions. The software version of the display used on the part of the bike may be different from the specification. Using versions of the actual version shall prevail.

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

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natural disasters (lightening etc.)

(6) Beyond Warranty period.

Schedule: 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.

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6	<p>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.</p>
7	<p>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.</p>
8	<p>The controller is broken.</p>
A/10	<p>The display and the controller have communication problems , the yellow cable is not connected.</p>
D/13	<p>The controller program is wrong or the 5V is wrong, check whether the brake signal short with 5V.</p>

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F/15	The display and the controller have communication problems, the green cable is not connected, or the communication protocol doesn't match.
<p>If there is something wrong with the 5 cables between the controller and display:</p> <p>(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.</p> <p>(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.</p> <p>The error code explanation is based on the correct system from</p> <p>Cloud drive intelligent technology Co.,Ltd</p>	