

USERS GUIDE

K5242 LCD



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Preface

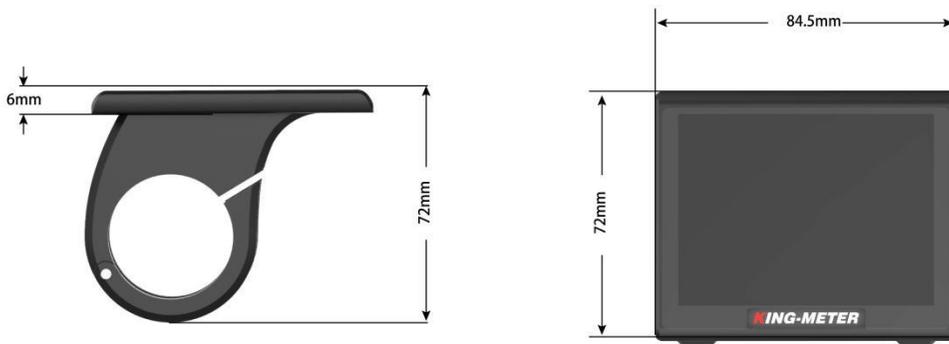
Dear user, to ensure better performance of your e-bike, please read through the K5242 product introduction carefully before using. We will use the most concise words to inform you of all the details (including the hardware installation, setting and normal operation use of the display) when using our display. Meanwhile, the introduction will also help you to solve possible confusion and barriers.

1. Appearance and Dimensions

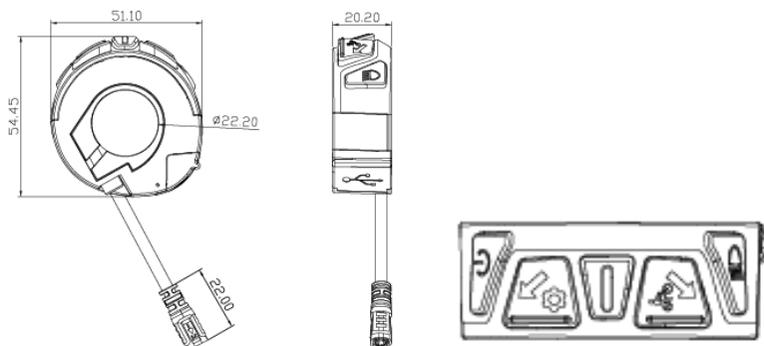
1.1 Material and Color

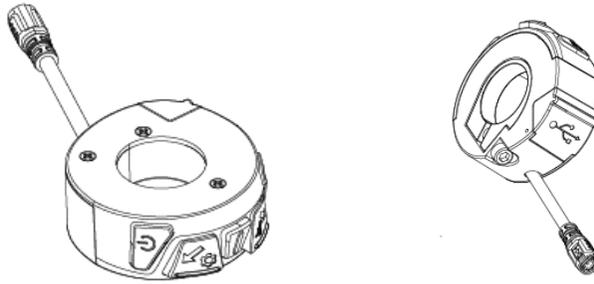
K5242 products are made of black and white PC. Under the temperature of -20 to 60°C, the shell material can ensure normal usage and good mechanical performance.

Dimension (unit: mm)



K5242 is equipped with special button. N5 button can be installed on the left side of the handlebar or on the right side of the handlebar. N5 button is connected with the bottom lead of k5242 display. Its dimension is as follows:





2. Function and Button Definition

2.1 Function description

K5242 provides you with a variety of function modes, to meet your riding needs.

Its functions are as follows:

- ◆ Battery capacity indication
- ◆ Speed indication
- ◆ Distance (including single trip distance and ODO display)
- ◆ Walk assist indication
- ◆ Backlight setting
- ◆ Error code indication
- ◆ Various setting parameters

2.2 Normal Display Content



K5242 Normal Display Interface

2.3 Button definitio

There are 5 buttons on K5242, In the following introduction,  is named as **【MODE】**。



is named as **【UP】** ,



is named as **【DOWN】** 。



is named as **【POWER ON】**

3.Note for Users

Be care of the safety use. Don't attempt to release the connector when battery is on power.



Try to avoid hitting.



Don't split the waterproof sticker to avoid affecting the waterproof performance.



Don't modify system parameters to avoid parameters disorder.



Make the display repaired when error code appears.

4.Installation Instruction

When the e-bike is powered off, you can insert the connector of display and the corresponding connector of controller to complete the installation, and adjust the display to a suitable angle.

5.User Settings

5.1 On / Off

Long press "**MODE**" button then the display will work normally, and the controller will power on at the same time.

With the display on, long press "MODE" button, the display will shut down, the display will leave off battery, the leakage current of display on is less than 1μA. The startup logo is shown as follow:



If the e-bike is not used for more than 10 minutes, the display will automatically shut down.

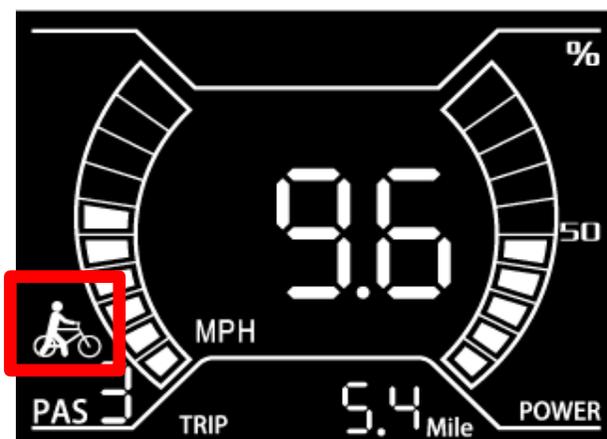
5.2 User interface



Normal display interface

5.3 Walk assist Mode

Press and hold "DOWN" button for 2 seconds to enter the Walk assist mode. The E-bike will travel at a constant speed of 6km/h.

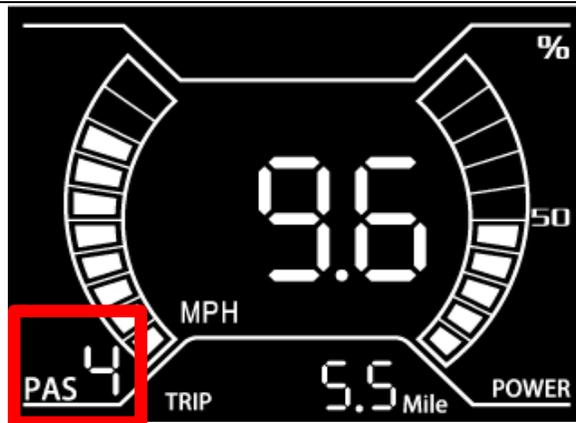


Walk assist mode interface

Walk Assist function can only be used as pushing the e-bike by hands. Please don't use this function when riding.

5.4 PAS Level Selection

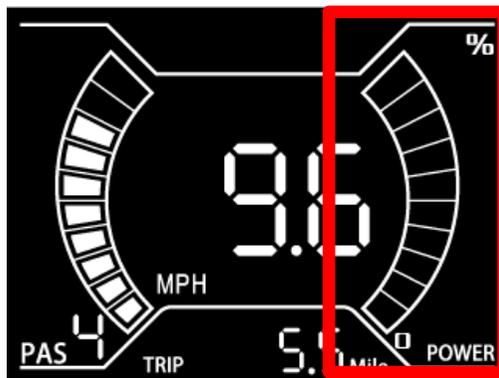
Short press the "UP" or "DOWN" button to switch the PAS level. The default range of PAS level is 0-5 levels



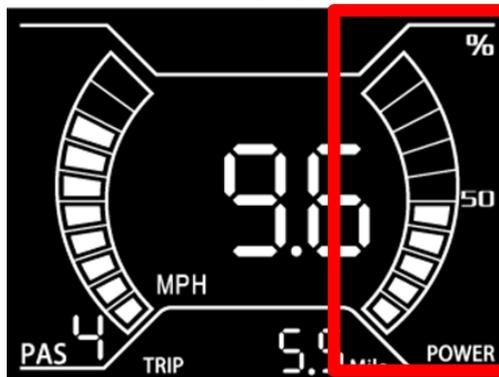
PAS level switch indication

5.5 Battery capacity indication

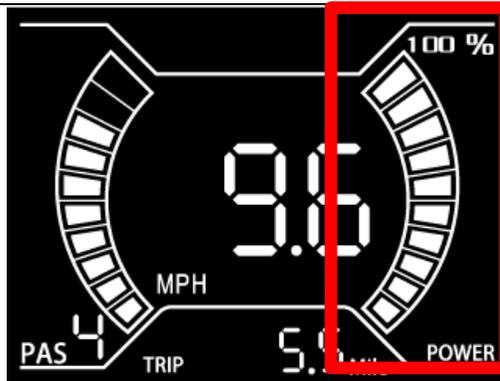
The battery power is shown as a percentage bar. When the battery is fully charged, the power bar shows 100%. Each cell mean 10% battery capacity.



0% battery capacity



50% battery capacity

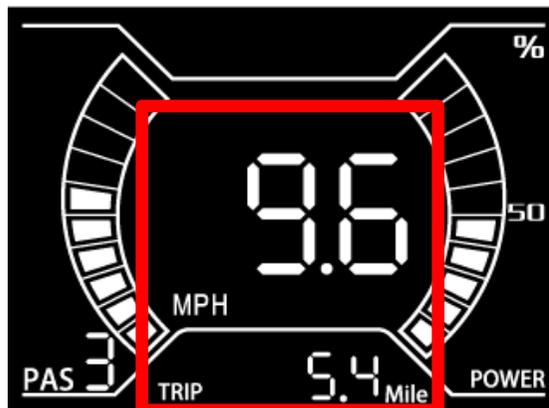


100% battery capacity

5.6 Speed/Single trip distance/ODO

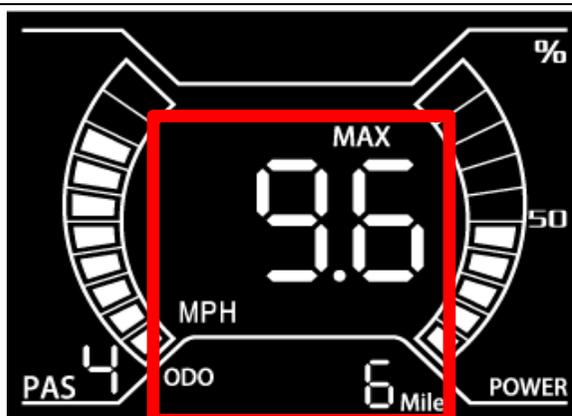
5.6.1 Real time speed, Single trip distance (TRIP) indication interface

After the display is powered on, the display indicates the real-time speed and single trip distance interface by default. When the speed is zero, press [mode] and [down] simultaneously for 2 seconds, and the current single trip distance will be cleared. The single mileage will not be cleared after the display is shut down and restarted.



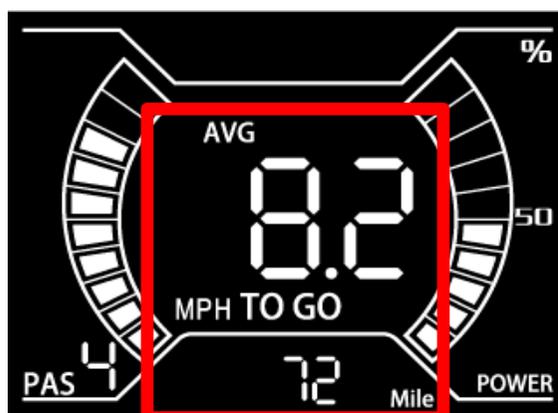
5.6.2 Max speed, ODO indication interface

After the display powered on, short press the [mode] button in the default interface of the display to switch the interface to the maximum speed and ODO interface. The maximum speed refers to the maximum speed during this ride, and the ODO is the total mileage of the e-bike.



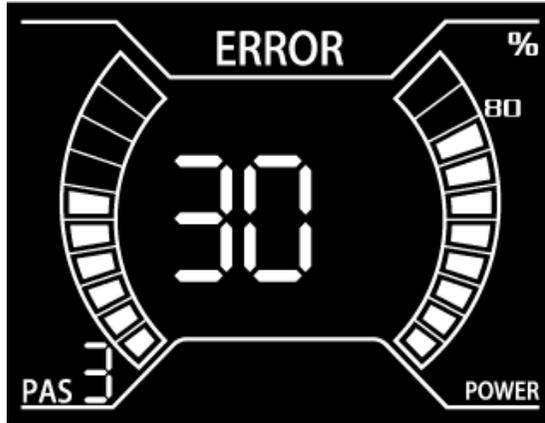
5.6.3 Average speed, remaining range (TO GO) indication interface

In the maximum speed and ODO display interface, briefly press the [mode] button again to switch to the average speed and remaining range display interface. The average speed represents the average speed during this ride, and the remaining range represents the remaining mileage that the e-bike can still ride.



5.7 Error code

When the e-bike electronic control system fails, the display will automatically indicate the error code. For the definition of detailed error codes, see appendix 1.

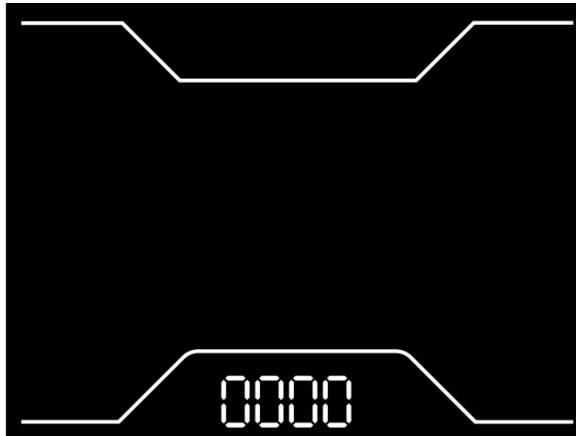


Error Code indicator

The fault can only be exited when the fault is eliminated, and the E-bike cannot continue to drive after a fault occurs.

6. User Settings

When the speed is zero, press the [up] button for two seconds to enter the setting interface. You need to input the password 1801, short press [mode] to enter the setting item, and short press [mode] to switch the setting interface in the setting.



Input password interface



6.1 Wheel Size Setting

Short press “MODE” button to enter the setting option. The settable values are: 20, 22, 24, 26, 700C, 28 and 29 inch. Select the corresponding wheel diameter of the E-bike through “UP” and “DOWN” button to ensure the accuracy of the speed display and mileage display. Long press “MODE” button to

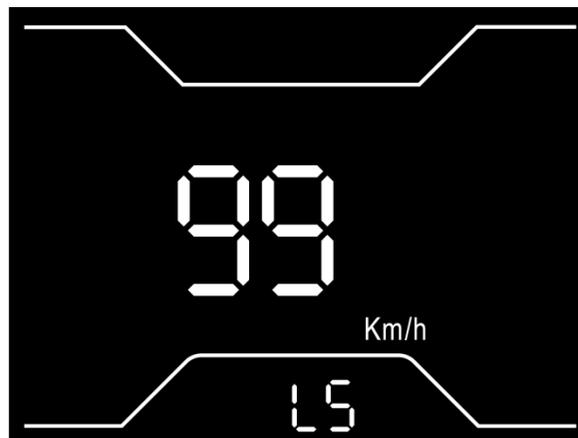
return to the setting list interface.



Wheel size setting interface

6.2 Speed Limit Setting

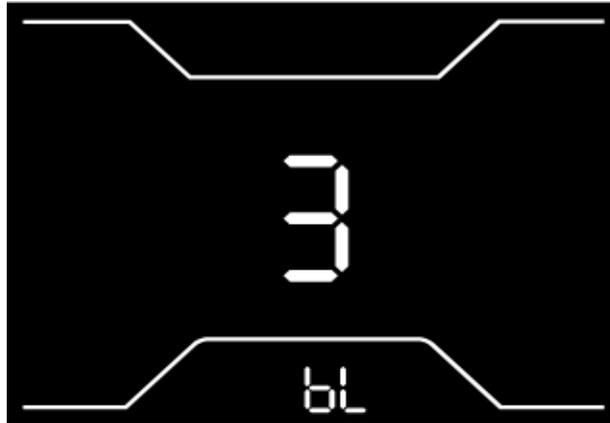
Speed limit setting. The settable values are: no speed limit, 8km/h-45km/h. Select the required speed limit value through [up] and [down], 99 means no speed limit, and the display defaults to no speed limit. Long press [mode] to save the settings and return to the main interface.



Speed limit setting interface

6.3 Backlight Brightness Setting

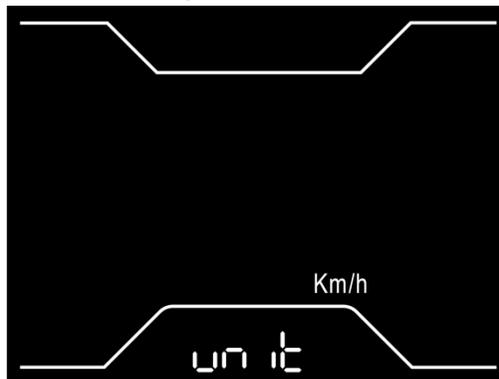
Short press "MODE" button to enter the setting option. The setting options: 1, 2 and 3 indicates the backlight brightness, 1 is the darkest, 2 is standard brightness, 3 is the brightest. The default value is 3. Long press "MODE" button to return to the setting list interface.



Backlight brightness setting interface

6.4 Display Unit Setting

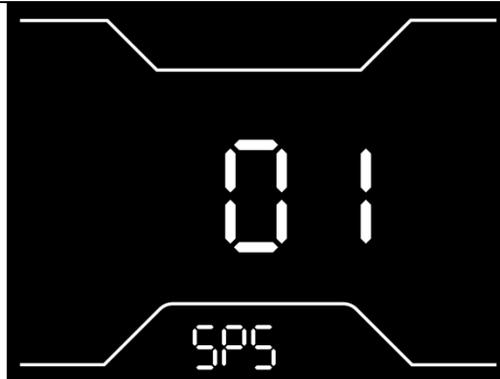
Short press “**MODE**” button to enter the setting option. The setting parameters are Km/h and Mile/h. The default Km/h unit is metric. Km/h or Mile/h can be selected by pressing “**UP**” and “**DOWN**” button. Km/h means the unit is metric system, and Mile/h means the unit is Imperial system. Long press “**MODE**” button to return to the setting list interface.



Display unit setting interface

6.5 Speed sensor magnetic stone number setting

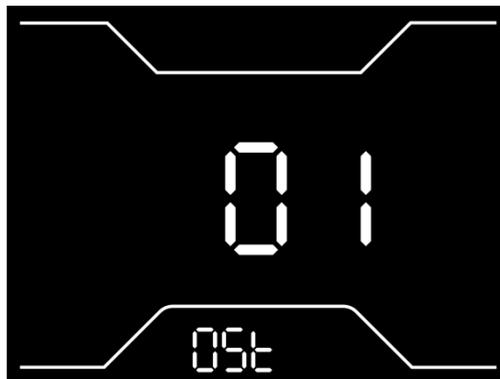
Speed measuring magnetic stone number setting interface, the setting parameters can be 0-99. The default value of 1 indicates that the number of external speed measuring magnets is 1. The number of magnetic steels can be selected by pressing the [up] key and the [down] key. Long press [mode] to save the settings and return to the main interface.



Speed sensor magnetic stone number setting interface

6.6 Zero start setting

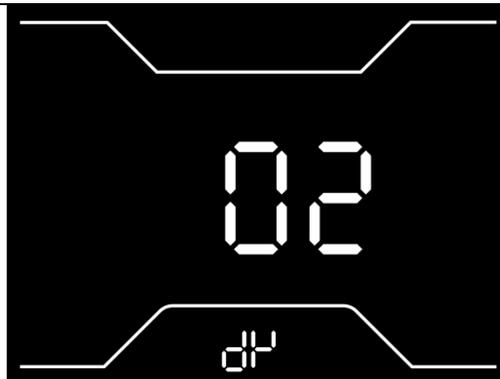
Zero start setting interface. The setting parameters can be 0 and 1. The default 1 indicates non-zero startup. 0 and 1 can be selected by pressing the [up] key and the [down] button. 0 means zero start of the e-bike, 1 means non-zero start of the e-bike. Long press [mode] to save the settings and return to the main interface.



Zero Start setting interface

6.7 Driver Mode Setting

Short press “MODE” button to enter the setting interface. The setting options are 0, 1 and 2. Press “UP/DOWN” button to select 0, 1 and 2 to adjust the three riding assist modes, 0 indicates only PAS assist mode, 1 indicates only throttle mode, 2 indicates coexistence of two assisted mode. Press “UP/DOWN” button to select value. Default setting is 2. Long press “MODE” button to confirm and return to the setting selection interface.



Driver Mode Setting interface

6.8 PAS Power Sensitivity Setting

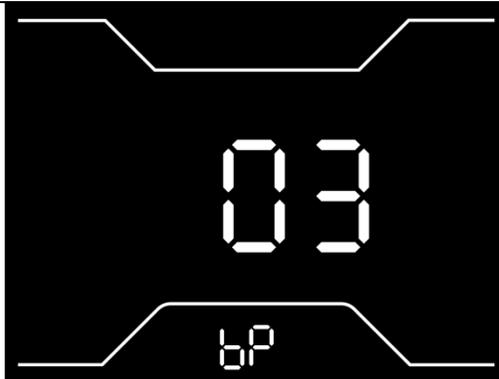
Short press “**MODE**” button to enter the setting interface. The setting range is 3 to 24. 3 is the highest sensitivity, 24 is the lowest. Press “**UP/DOWN**” button to select sensitivity value, Default setting is 3. Long press “**MODE**” button to confirm and return to the setting selection interface.



PAS Power Sensitivity Setting

6.9 PAS power start strength setting

Short press “**MODE**” button to enter the setting interface. The setting range is 0 to 5. Press “**UP/DOWN**” button to select start strength value, Default setting is 3. Long press “**MODE**” button to confirm and return to the setting selection interface.



PAS power start strength setting interface

6.10 Controller current limit setting

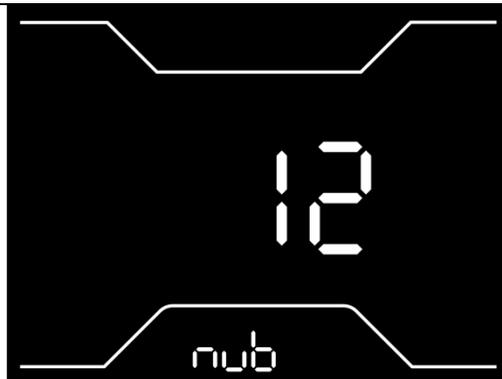
In the controller current limiting setting interface, the default value of 20 indicates that the current limiting value is 20A. Setting parameters can be 1A-30A. Press [up] and [down] to select 1a-30a. Long press [mode] to save the settings and return to the main interface.



Controller current limit setting

6.11 Pas Magnetic Number Setting

Short press “**MODE**” button to enter the setting interface. The setting range is 5/8/12. It should be set according to the number of magnets disk that installed on the E-bike. Press “**UP/DOWN**” button to select value, Default setting is 12. Long press “**MODE**” button to confirm and return to the setting selection interface.



PAS Magnetic Number setting interface

7. USB charging function

A USB interface with charging function is installed under the N5 button. This interface provides charging power for the mobile phone, and the output current is 500mA. When the display is turned off, connect the data cable of the mobile phone to the display and the mobile phone. After the display is turned on, the mobile phone will display charging; If the display is turned off at this time, the phone will stop charging. When the display is turned on, press and hold the [mode] and [up] keys and the [down] keys at the same time. After pressing and holding for a period of time, the instrument starts to charge the mobile phone. In any state, unplug the phone and the charging will be automatically terminated.

8. Preparation Before Startup

Please read the instruction carefully before using the display.

9. FAQ

Q: Why can't turn on the display?

A: Please check whether the battery is turned on or the leakage lead wire is broken

Q: How to deal with the error code display?

A: Contact the e-bike maintenance station in time.

10. Quality Assurance and Warranty Scope

I, Warranty Information:

- 1, King-Meter will be responsible for all faults arising during normal operation that are caused by a quality defect.
- 2, The warranty time is 24 months from the day the display leaves the factory.

II, The following are not covered by warranty:

- 1, Shell opened.
- 2, Connector damaged.
- 3, After display out of factory, the shell is scratched or damaged.
- 4, Lead wire of display scratch or break.
- 5, The fault or damage is caused by the force majeure (such as fire, earthquake, etc.) or natural disasters (such as lightning, flooding, etc.)
- 6, Product exceeded warranty period.

Appendix 1: Error Code Definition

Error code	Definition	Solution
03	PAS sensor abnormal	Check whether the power sensor cable is in good condition
04	Throttle abnormal	Check whether the throttle is restored to the initial state
09	Motor phase failure	Check whether the outgoing cable of phase line is in good condition; Check whether the motor phase cable is well connected with the controller
08	Motor Hall signal	No Hall controller: check whether the phase line outgoing line is in good condition

	abnormal	With Hall controller: check whether the hall outlet is in good condition
30	Communication abnormal	Check whether the display and controller are well connected
06	Undervoltage protection	Check battery voltage
05	Controller abnormal	Check whether the controller cable pins' sequence match.

