

Wuxi Truckrun Motor Co.,LTD

CA01 LCD Display
User Manual

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Thanks For Using Truckrun Products

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About The User Manual

Dear users, please drive the electric bicycle safely. The display is one of the components for you to operate the electric bicycle and master the riding state. Please read the instruction manual carefully before using it. Knowing its materials, installation, setup, adjustment, maintenance and normal use of the display is very important, I wish you a pleasant trip.

For your driving safety, please stop before you do the display settings.

Main Material and IP Standard

The product cover is made of black / white PC1414 material, the display screen is made of acrylic white transparent, the button is made of silicone rubber, the display cover needs be operated in the temperature of -25°C for 80°C to ensure its mechanical strength.

Ingress protection: IP65.

Settings

User settings are divided into normal settings and advanced settings.

Normal setting items: km/mile, speed limit, back light brightness.

Advanced setting items: wheel diameter, automatic power off time, total gear level.

The general setting items can be set directly by the user; the advanced setting items are generally set before leaving the factory and cannot be modified at will, otherwise it will affect the speed measurement accuracy and riding status.

Display Content

The contents in the display are: power display, riding mode, riding speed, riding single range, cycling total range, electronic control system error code, are as shown below:

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Button Definition

The display is equipped with a dedicated one-piece key, 3 keys are installed on the left side of the display, the shape and location of which are as follows:



In the following instructions, the top button is replaced by "MODE" , the middle button by "+", and the bottom button by "-".

Preparation

Make sure the display is firmly connected with the controller and turn on the power of the electric vehicle.

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Power on and Power off

Press the "MODE" button long enough to power on. Same way long Press "MODE" key to turn the system off.

Recommendation: If you do not use an electric car for more than 4 hours, please take the battery off the electric vehicle and store it properly.

Kilometer/Mile Setting

After power on, hold the '+' and '-' keys at the same time. After 2 seconds, you will enter the general settings. First set the KM / Mi Unit. Short press the '+' or '-' key to switch km / Mi . The setting interface is as below:



Backlight Settings

After selecting the KM/ Mile System, short press "MODE" key to enter the backlight brightness settings, Short Press "+" key to increase backlight brightness, Short Press "-" key to reduce back light brightness. Setting range: 1-8.The setting interface is as below:

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Automatic Power off Setting

After selecting the backlight brightness, press the “MODE” key to enter the automatic power off time setting. Press the “+” button to increase the automatic power off time. Press the “-” button to reduce the automatic power off time. Setting range: 0-60; unit: minute. When the bike does not have any action within the set time range, the display will automatically shut down and cut off the display itself and the controller power. The setting interface is as below:



Note: If the automatic power-off time is set to 0, it means that the power will not be cut off automatically, it must be shut down manually.

Total Level Setting

After setting the automatic power off time, short press the "MODE" key to enter the gear

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levels settings, short press the " + " key to increase the level, short press the "-" key to reduce



.The range: 2-9. After selecting the total number of gear, short press the "MODE" key to exit the advanced settings, the display will automatically save the settings parameters. The setting interface is as below:

Attention : 0 gear is not included in the total number of gears.If the gear level is 5 the actual gear is 0,1,2,3,4,5.

After set the parameter,the display needs to restart to take the settings in effect.

Wheel Size Setting

After setting the gear,shortly click " MODE " to enter the wheel size setting.click "+" to add wheel size and click "-" to reduce wheel size.The range of the wheel size is from 8-32. Unit:inch. Setting interface is shown as below.



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Speed Limit Setting

After setting the right wheel size,shortly click “MODE” to enter speed limit setting.Click “+” to increase the speed limits and click” -” to reduce speed limit. Range of speed limit: 15kmh to 50Km/H(10-32Mile/H). Setting interface is as below:



Attention: When the running speed of the bicycle beyond the limit.The motor output power continues decline. For the sake of safety,please keep speed limit below 25km/h.

Switch Gear and Assisting Mode

Switch gear: click “+” to add gear level and “-” to reduce gear level.

Enter and exit assisting mode: keep motor on ,hold on “-” button for 2 seconds to enter pushing assistance mode. Release “-” button it will back to cycling gear level.

Turn on/ off Rear light

Keep motor power on,hold “+” 2 seconds to turn on the rear light and hold ” +” 2 seconds again to turn off the light.If the bicycle is installed with a headlight,it will be turned on/off with the rear light.

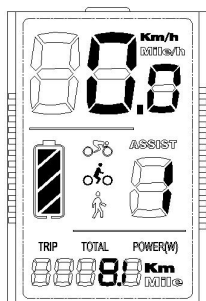
Single Riding Range Clearance

Keep motor on,hold the “MODE” and “-” for 2 seconds at the same time to clear the Riding range.

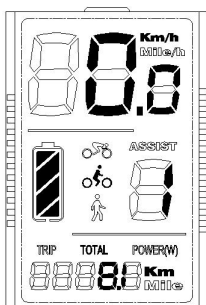
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Switch of Single Range and Total Running Range

Keep motor on, click “MODE” button to switch the single running range and total running range. The interface of single running range is shown as below:

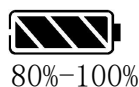
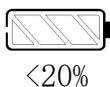


The interface of total running range show as below:



Battery Status

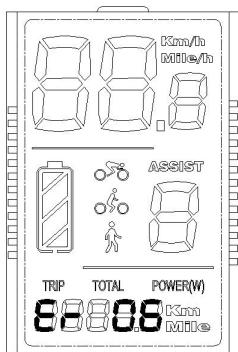
The remaining battery capacity and corresponding capacity are as follows:



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Error Code Display

When the electric control system of e-bike meets problems, The display will show the Error code. The definition of error code shows in the table below and the display interface is shown as below:



No.	Code	Failure Causes	No.	Code	Failure Causes
1	04	Throttle out of position	7	10	Motor high temperature failure
2	05	Throttle failure	8	11	Temperature sensor failure
3	06	Low voltage protection	9	12	electric current sensor failure
4	07	Over voltage protection	10	21	Speed sensor failure
5	08	Hall signal failure	11	22	Battery communication failure
6	09	Phase cable failure	12	30	Display communication failure

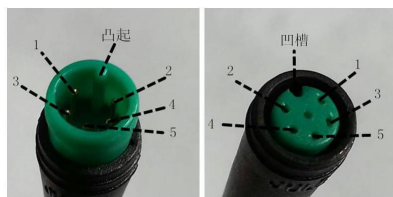
Attention : Only after solved the failure, the display will exit the error code interface.

Please cut off the power when you meet the failure and wait for trouble being solved before you ride.

Cable connectors images:

Standard connector

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Integrated cable connector Connector from display side

Cable pin No.	Colour	Function
1	Black (GND)	Ground wire of display
2	Red (PKEY)	Power control cable of controller
3	Green(CH)	Data receiving cable of display
4	Yellow(CL)	Data transmission cable of display
5	Blue (KEY)	Power cable of display

Some of the products are using waterproof connector, You may not see the colour of the small wires inside

Attention

Please pay attention to the safety in the use of the e-bike, avoid display bumping.

Q&A

Q: Why can't the display be turned on?

A: Please check if all the connectors are connected properly and check if the battery switch is on.

Q: How to handle the display failure code.

A: Please refer the error code to solve the corresponding failure. If the failure can not be handled by yourself, please go to the maintenance station to fix it in time.

Quality Commitment and Warranty Coverage

The warranty period is limited for any failure caused by quality problem under normal use. Situation as follows are not covered by warranty:

1. After the display leaves the factory, the display cover is scratched or damaged.

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2. The display cable is scratched or broken.
3. Failures and damages caused by force majeure, including fire, flood, earthquake, and lighting strikes.
4. Expired the warranty period(18month from the date of delivery)