retrospec
K5304
LCD
Display

retrospec K5304 LCD Display User Guide

Contents

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Product Usage Instructions

- To troubleshoot various fault codes, follow these steps:
- Follow these guidelines for optimal product usage:
- Ensure proper cooling for the controller and motor.
- Regularly check all connections for abnormalities.

FAQ

- **Q:** What should I do if the display shows a “Brake error” code?
- **A:** Check the brake lever sensor connection and ensure proper lever movement. If the error persists when turning on the bike while holding the brake, release the brake to resolve the issue.

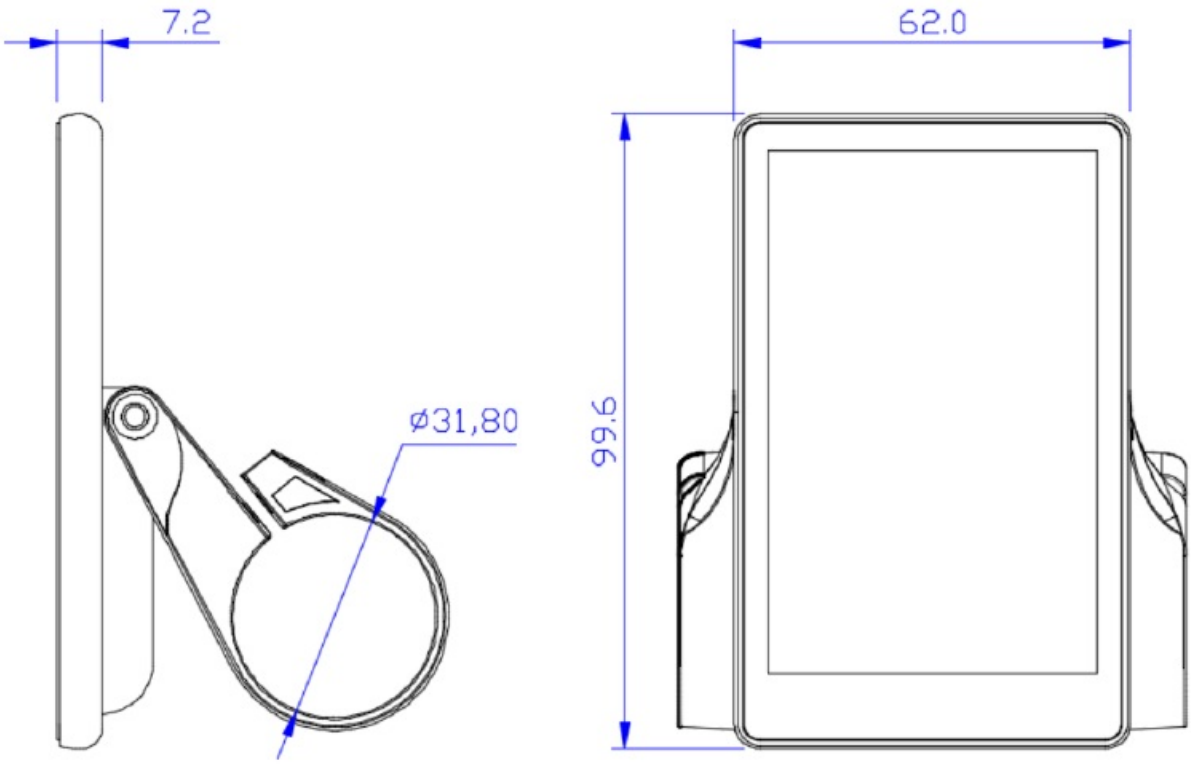
Introduction

- Dear users, in order to better operate your e-bike, please carefully read this manual for the K5304 LCD display equipped on your bike before use.

Dimensions

Material and color

- K5304 product housing is made of white and black PC materials.
- Figure and dimension drawing (unit: mm)



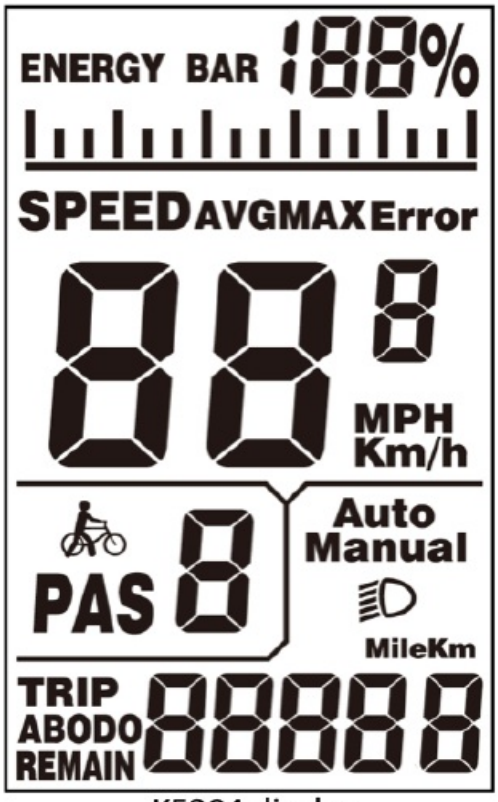
Function and button definition

Function description

K5304 provides you with a variety of functions and displays to meet your riding needs. K5304 displays:

- Battery capacity
- Speed (including real-time speed display, maximum speed display, and average speed display),
- Distance (including trip and ODO), 6KM/H
- The backlight turns on the Error code,
- Multiple setting parameters. Such as wheel diameter, speed limit, battery capacity setting,
- Various PAS level and power-assisted parameter settings, power on password settings, controller current limit setting, etc.

Display area



K5304 display

Button definition
The main body of the remote button cluster is made of PC material, and the buttons are made from soft silicone material. There are three buttons on the K5304 display.

1. Power on/ Mode button
2. Plus button
3. Minus button

For the remainder of this manual, the button will be represented by the text MODE. The button will be represented by the text UP and the button is replaced by the text DOWN.

User Reminder
Pay attention to safety during use.

1. Do not plug and unplug the display when it is powered on.
2. Avoid bumping the display as much as possible.

3. Avoid looking at buttons or displays for long periods while riding.
4. When the display cannot be used normally, it shall be sent for repair as soon as possible.

Installation instructions

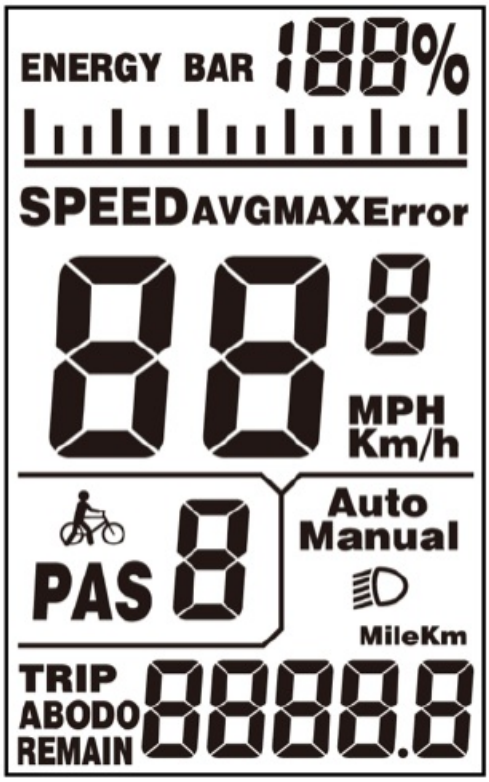
- This display will come fixed to the handlebars.
- With the bike off, you can adjust the angle of the display to allow for the best viewing angle while riding.

Operation Introduction

Power on/off

- First, make sure the battery is powered up. If it is not, simply press the power button by the charge indicator lights.
- This will wake the battery out of deep sleep mode. (You only need to press this button again if you want to put the battery back into deep sleep mode. This would be for storage over 2 week).
- Now hold down the MODE button, this will turn the bike on. Hold the MODE button down again to turn off the bike.
- If the e-bike is not used for more than 10 minutes, the display will power off automatically.

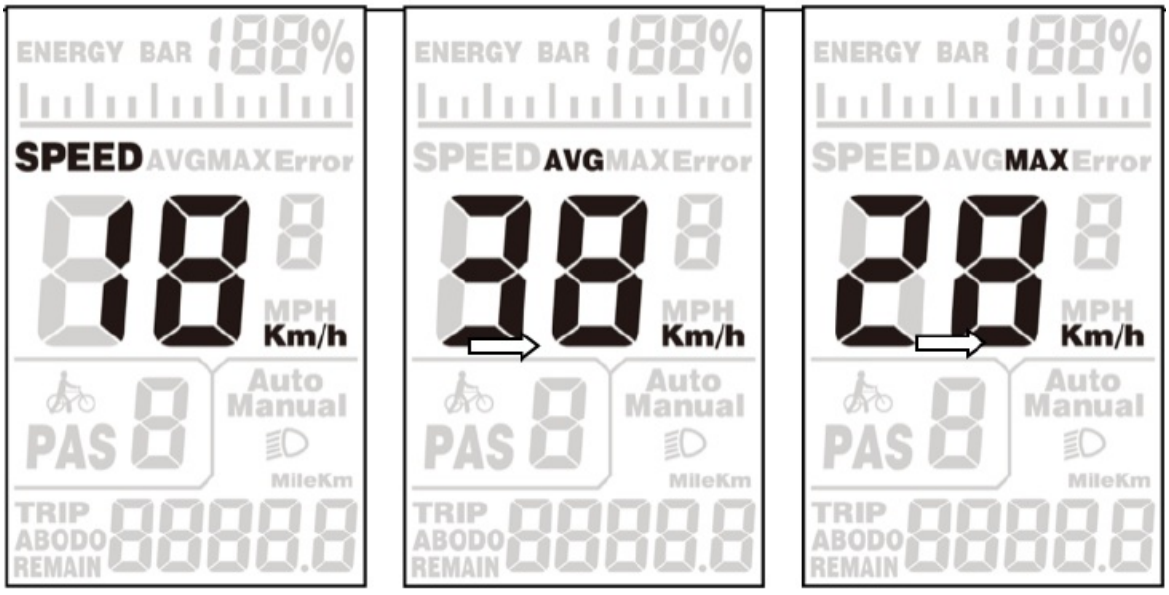
User interface



K5304 User interface

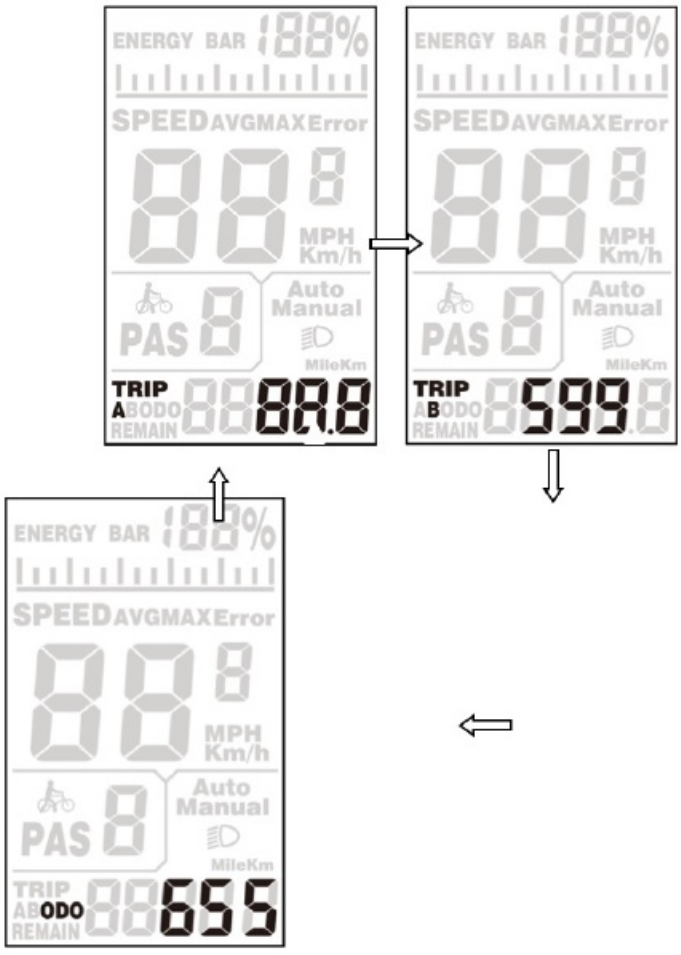
Speed

- Long press the [mode] button and the [UP] button to enter the speed switching interface, and speed (real-time speed), AVG (average speed), and max (maximum speed) are displayed respectively, as shown in the figure:



Trip/ODO

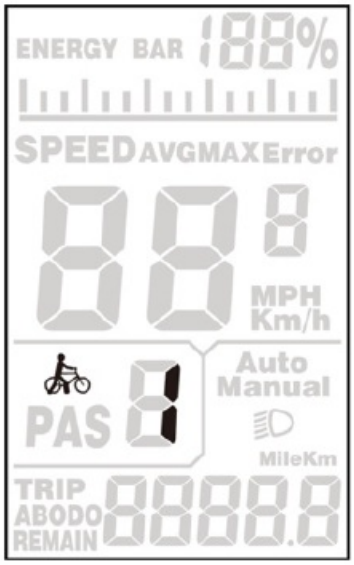
- Press the [model key to switch the mileage information, and the indication is: TRIP A (single trip) → TRIP B (single trip)→ ODO (cumulative mileage), as shown in the figure:



- To reset the trip distance, hold the [mode] and [down] buttons for 2 seconds at the same time with the bike on, and the Trip (single mileage) of the display will be cleared.

Walk Assist Mode

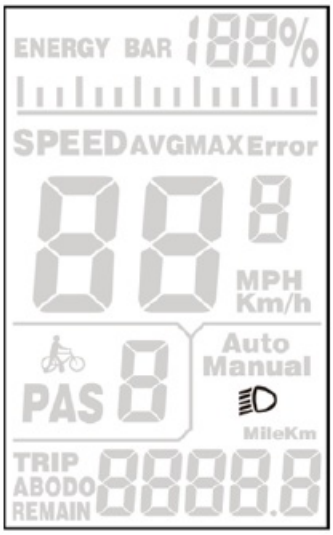
- When the display is turned on, hold the [DOWN] button for 3 seconds, and the e-bike will enter the state of walk assist mode.
- The e-bike travels at a constant speed of 6km/h. The screen will flash “WALK”.
- The walk assist mode function can only be used when the user pushes the e-bike. Do not use it when riding.



Walk interface

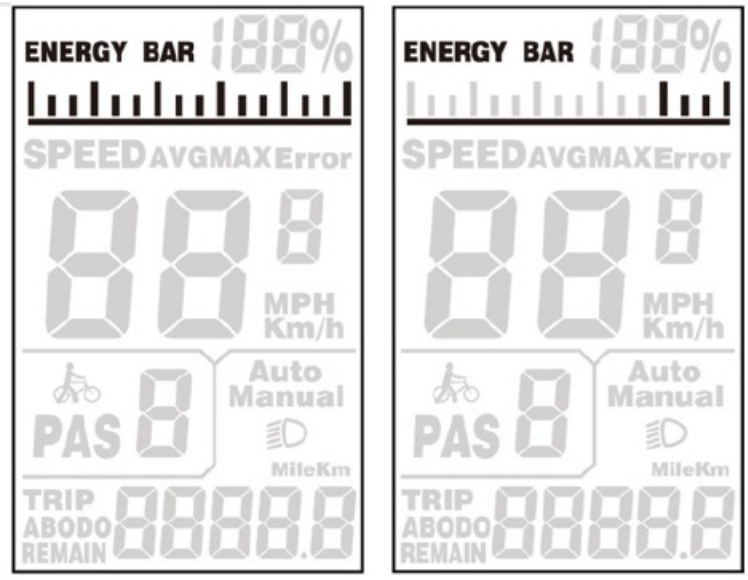
Lights On/Off

- Hold the [UP] button to turn the bike’s lights on.
- The icon appears, indicating that the lights have been turned on.
- Long press the [UP] button again to turn the lights off.



Headlight on interface

Battery indicator



- When the battery power is displayed as shown in the picture on the right, it indicates that the battery is under voltage. Please charge it in time!

Error Code

- When the e-bike electronic control system fails, the display will automatically display an ERROR code.
- For the definition of the detailed error code, see the list below.
- Only when the fault is eliminated, can exit the fault display interface, the e-bike will not continue to run after the fault occurs. See Appendix 1

Error code interface

User setting

Preparation before startup

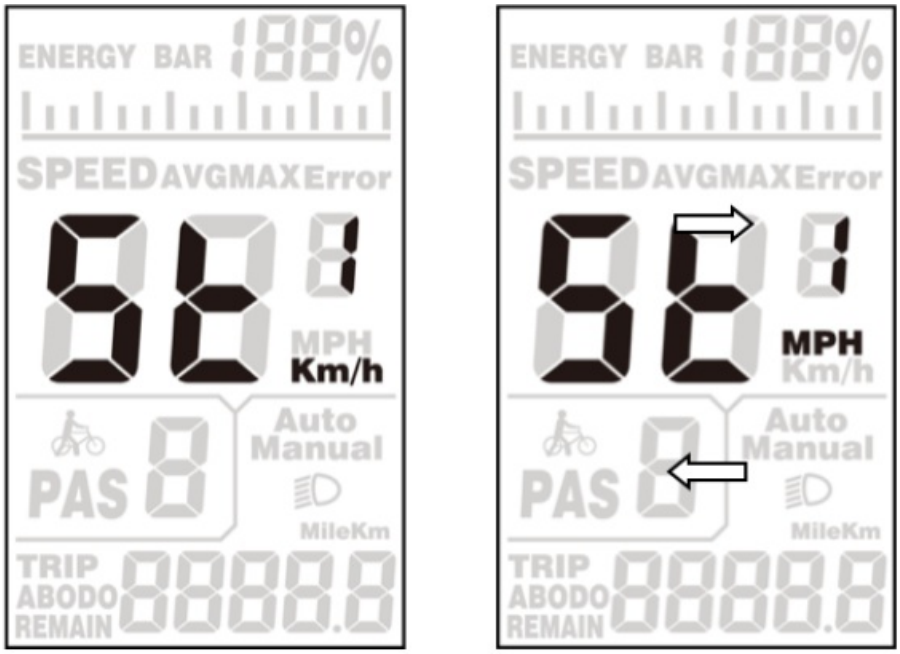
- Ensure that the connectors are firmly connected and turn on the power supply of the e-bike.

General setting

- Press and hold the [model button to power on the display. In the power-on state, press and hold the [up] and [down] buttons for 2 seconds at the same time, and the display enters the setting state.

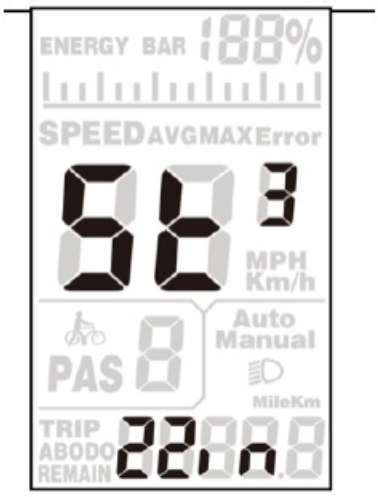
Metric and Imperial Setting

- Enter the setting state, ST' means imperial system selection, short press the [UP]/[DOWN] button to switch between metric units (Km) and imperial units (Mph).
- Short press the [MODE] button to confirm the setting, and then enter the ST setting interface.



Metric/Imperial conversion setting interface

Wheel size setting
Your bike will come with a display programmed to the correct size. Should you need to reset it, this is how. Short press the [UP]/[DOWN] button to select the wheel diameter corresponding to the bike wheel to ensure the accuracy of the speed display and distance display. The settable values are 16, 18, 20, 22, 24, 26, 28, 700C, 28. Short press@MODE button to confirm and enter the real-time speed display.



Wheel size setting interface

Exit settings

- In the setting state, long press the OMODED button (more than 2 seconds) to confirm to save the current setting and exit the current setting state.
- If no operation is performed within one minute, the display will automatically exit the setting state.

Class 2/Class 3 Selection

- NOTICE-Before selecting 28MPH Class 3 E-Bike settings, check local regulations regarding the use of Class 3 E-bikes. They are usually different from Class 2 E-Bike laws. It is also important to check with your insurance provider regarding the use and coverage of Class 3 E-Bikes.
- Press and hold the [UP] and [DOWN] buttons at the same time for 2 seconds to enter the general setting interface. Then simultaneously press [MODE] and [UP] buttons for 2 seconds to enter the class selection interface.
- “C 2” is shown identifying Class 2 (20MPH top speed) parameters that are in use. Use [UP] to select C 3 (Class 3 parameters of 28MPH top speed and 20MPH throttle speed). Use the [DOWNito go back to C2 parameters. After entering the 4-digit password 2453, short press the [MODE] button to confirm. Long press [MODE] to exit.

Class 2/3 Interface

Version
This user manual is for a general-purpose UART-5S protocol software (version V1.0). Some versions of the e-bike LCD may have slight differences, which should depend on the actual use version.

10--Over Voltage –Check battery, Controller and All connections
11--Under Voltage—Check battery, Controller and All connections
12--Speed Feedback Fault—Check motor connection and Controller
13—Overtemperature--Controller or Motor—Let system cool and Check connections
14--Voltage Fault—Check battery and Connections
15--Abnormal Output—Check all connections
16--CPU Fault CPU—Check controller and All connections
17--Runaway Protection—Check battery and All connections
18--Assistance sensor Fault—Check PAS or Torque sensor and connections
19--Speed sensor Fault—Check motor and connections
20--Communication Fault—Check all connections, Display and Controller
21--Over current or MOSFET Fault (Controller)—Check Controller and All Connections
22--Throttle Fault—Check Throttle connections
23--Phase Fault (motor)—Check motor and Connection
24--Hall Fault—Check motor and Connection
25--Brake error—Check brake lever sensor connection and lever movement. Willalso display if holding brake while turning bike on (let go of brake if this happens and it should go away).
30--Controller communication fault—Check Controller and All connections
31--Battery communication fault—Check battery, Controller and Connections
32--Controller and battery communication fault Check battery, Controller and Connections

Documents / Resources

	retrospec K5304 LCD Display [pdf] User Guide K5304, K5304 LCD Display, LCD Display, Display

References

- User Manual