

E-Mangue C961 Display

E-Mangue C961 Ebike LCD Display User Manual

Model: C961 Display

Brand: E-Mangue

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your E-Mangue C961 LCD Display for e-bikes. Please read this manual carefully before using the product to ensure proper function and longevity.

1.1 Product Overview

The C961 LCD Display is designed to provide essential riding information for your electric bicycle. It features a clear LCD screen and intuitive controls, enhancing your e-biking experience.



Figure 1: E-Mangue C961 Ebike LCD Display. This image shows the main display unit, its integrated control buttons, and the attached 5-pin female connector cable.

1.2 Compatibility

Important: This display is only compatible with Bafang BBS01B, BBS02B, and BBSHD mid-drive motors that utilize the UART protocol. It is not compatible with CAN protocol motors or other motor brands.

The display is designed to be mounted on handlebars with a diameter of 22mm.



How can I confirm that your bike is compatible with this display?



Figure 2: Compatibility Diagram. This diagram shows that the C961 display requires a 5-pin male connector on the motor for proper connection. It explicitly states incompatibility with CAN protocol and 5-pin female motor connectors.



Figure 3: Motor Compatibility. This image clarifies that the C961 display is exclusively compatible with Bafang BBS series mid-drive motors and will not function with other Bafang motor types or motors from different brands.

2. SETUP AND INSTALLATION

2.1 Mounting the Display

1. Identify a suitable position on your handlebar (22mm diameter) for the C961 display.
2. Loosen the mounting screws on the display bracket.
3. Place the display on the handlebar and tighten the screws securely, ensuring the display is stable and visible.

2.2 Connecting the Display

The C961 display features a 5-pin female connector. This connector must be securely attached to the corresponding 5-pin male connector on your Bafang BBS series mid-drive motor's wiring harness.

1. Locate the motor's wiring harness connector.
2. Align the 5-pin female connector of the C961 display with the 5-pin male connector of the motor.
3. Push the connectors firmly together until they click into place, ensuring a secure and waterproof

connection.

4. Verify the connector size before purchase. The display's connector has a diameter of approximately 9mm.

Note: Before purchasing, please check the **size** of your bike **connector plug** and measure your plug diameter for compatibility.



Figure 4: Connector Dimension. This image highlights the 9mm diameter of the display's 5-pin female connector, which is crucial for ensuring compatibility with your motor's male connector.



Figure 5: Display to Motor Connection. This image illustrates the C961 display's 5-pin female connector properly connected to a Bafang BBS series mid-drive motor, demonstrating a typical installation.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

- To power on the display, press and hold the power button (usually marked with a power symbol) for a few seconds.
- To power off the display, press and hold the power button again until the screen turns off.

3.2 Display Indicators

The C961 display provides various real-time riding data. Refer to the diagram below for an overview of the display elements:

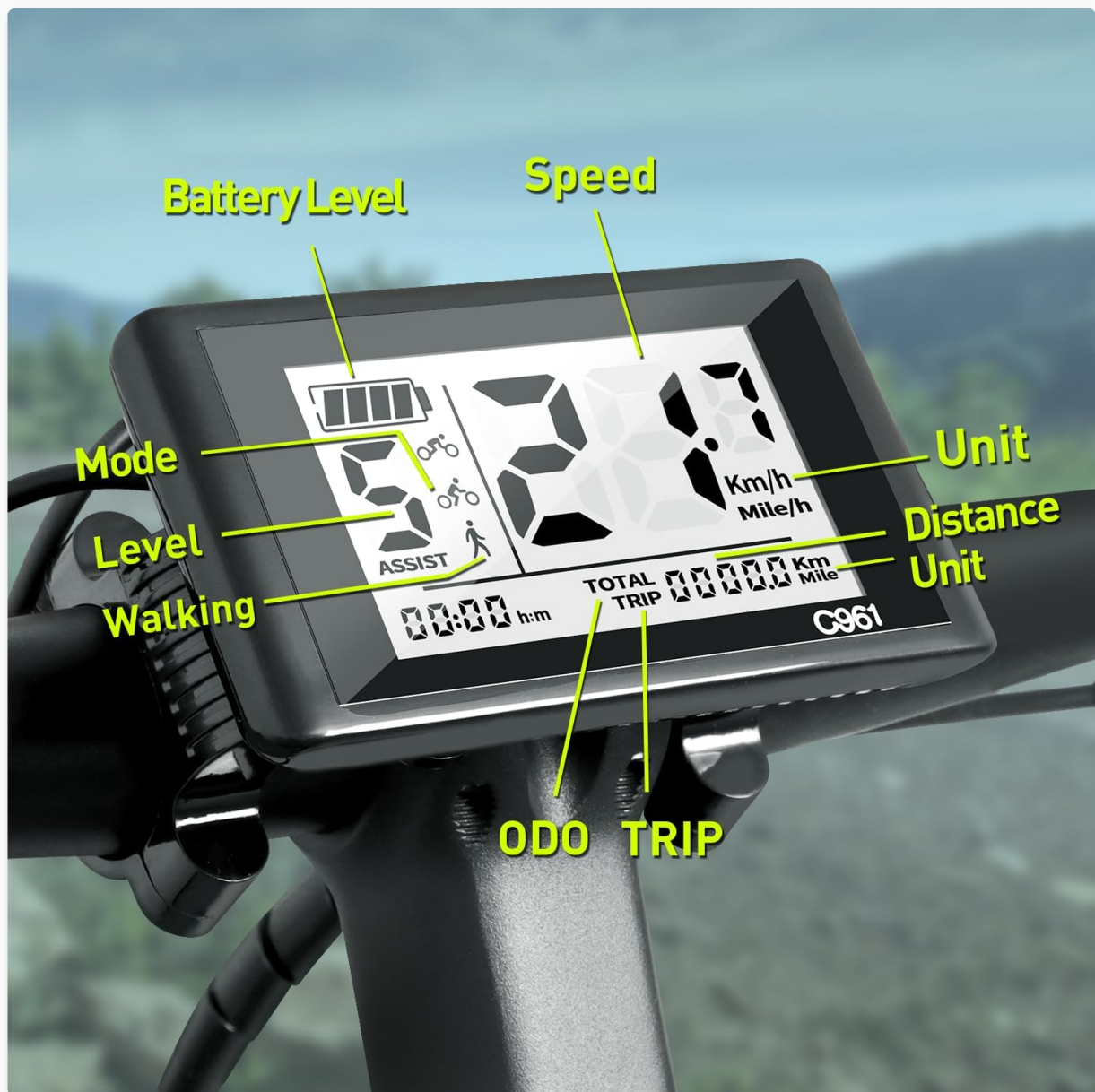


Figure 6: C961 Display Interface. This image labels the key information displayed on the screen, including battery charge, current speed, selected mode, pedal assist level, walking assist indicator, total odometer reading, trip distance, and speed/distance units.

- **Battery Level:** Indicates the remaining battery charge.
- **Speed:** Shows your current riding speed (Km/h or Mile/h).
- **Mode:** Displays the current riding mode.
- **Assist Level:** Shows the current pedal assist level.
- **Walking Assist:** Indicates if walking assist mode is active.
- **TOTAL (Odometer):** Displays the total distance traveled by the e-bike.
- **TRIP:** Shows the distance traveled during the current ride.
- **Unit:** Indicates the unit of speed and distance (Km/h or Mile/h).

3.3 Adjusting Pedal Assist Levels

The C961 display supports multiple pedal assist level settings. You can typically switch between 0-3, 0-5, or 0-9 assist levels, depending on your motor's configuration.

- Use the '+' and '-' buttons on the control unit to increase or decrease the pedal assist level.

- Level '0' typically means no motor assistance.

3.4 Backlight Brightness

The display features an automatic backlight adjustment function. The brightness range is from 1 to 8, and it will automatically adjust based on ambient light conditions for optimal visibility.

4. MAINTENANCE

To ensure the longevity and optimal performance of your C961 display, follow these maintenance guidelines:

- **Cleaning:** Wipe the display screen and housing with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the acrylic display window or ABS housing.
- **Waterproof Rating:** The display has an IP65 waterproof rating, meaning it is protected against dust ingress and low-pressure water jets from any direction. While it can withstand rain and splashes, avoid submerging the display in water.



Figure 7: IP65 Waterproof Rating. This image demonstrates the C961 display's resistance to water splashes, highlighting its IP65 protection level suitable for various weather conditions.

- **Operating Temperature:** The display is designed to operate in ambient temperatures ranging from -20°C to 80°C. Avoid exposing the display to extreme temperatures outside this range.
- **Storage:** When not in use for extended periods, store the e-bike and display in a dry, cool place away from direct sunlight.

5. TROUBLESHOOTING

If you encounter issues with your C961 display, refer to the error code table below for common problems and their definitions. If the issue persists, contact customer support.



Figure 8: Display Error Codes. This table provides a list of common error codes that may appear on the C961 display, along with their corresponding definitions, to assist in diagnosing issues.

Table 1: C961 Display Error Codes

Error Code	Definition
04	Throttle no homing
05	Throttle abnormality

Error Code	Definition
06	Low voltage protection
07	Over voltage protection
08	Hall sensor abnormality
09	Phase line abnormality
10	Controller overheat
11	Temperature sensor in controller abnormality
12	Current sensor abnormality
21	Speed sensor abnormality
22	Communication abnormality in BMS

6. SPECIFICATIONS

Table 2: C961 Display Technical Specifications

Feature	Detail
Brand	E-Mangue
Model Name	C961 Display
Color	Black
Display Type	LCD
Screen Size	2.7 Inches
Material	ABS housing, Acrylic display window
Item Weight	0.21 Kilograms
Connectivity Technology	Wired Connectivity (UART Protocol)
Sensor Type	Speed Sensor
International Protection Rating	IP65
Mounting Type	Handlebar Mount (22mm diameter)
Human Interface Input	Buttons
Operating Temperature	-20°C to 80°C
Package Dimensions (L x W x H)	4.72 x 3.23 x 2.99 inches
Product Dimensions (approx.)	105mm (L) x 58mm (H)
Cable Length (approx.)	500mm (main cable), 200mm (control unit cable)

Dimensions



Figure 9: C961 Display Dimensions. This technical drawing provides precise measurements for the display unit and its associated control unit, including overall length, height, and handlebar mounting diameter.

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The E-Mangue C961 LCD Display comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

7.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact E-Mangue customer support through the platform where you purchased the product. You can also visit the official E-Mangue store on Amazon for more information and contact options: [E-Mangue Amazon Store](#).

