

XINMEILAN EB02-UART

XINMEILAN EB02-UART Electric Bicycle Display User Manual

MODEL: EB02-UART

1. Introduction

Thank you for choosing the XINMEILAN EB02-UART Electric Bicycle Display. This manual provides essential information for the proper installation, operation, and maintenance of your new display unit. Please read this manual thoroughly before use to ensure optimal performance and safety. This display is specifically designed for Bafang mid-mounted motors utilizing the UART communication protocol.

2. Safety Information

- Always ensure the electric bicycle's power is off before installing or removing the display.
- Do not attempt to open or modify the display unit. This may void the warranty and cause damage.
- Keep the display unit away from extreme temperatures, direct sunlight, and moisture.
- Regularly check all connections to ensure they are secure.
- Operate your electric bicycle responsibly and in accordance with local traffic laws.

3. Package Contents

Please verify that all items are present in your package:

- EB02 Display Screen: 1 unit

4. Product Overview

The XINMEILAN EB02-UART display is a central interface for your electric bicycle, providing real-time data and control over various functions. It features a clear LCD screen and intuitive buttons for easy navigation.



Image 1: The XINMEILAN EB02-UART Electric Bicycle Display unit, showing its screen and control buttons.

This display unit is compatible with Bafang mid-mounted motors that use the UART communication protocol. It is essential to confirm your motor's protocol before installation.

UART version



UART version



**Compatible
models**

BBS01

BBS02

BBS03

G340

BBS01B

BBS02B

BBSHD

G320



Image 2: The EB02-UART display showing compatibility with Bafang BBS01, BBS02, BBS03, G340, BBS01B, BBS02B, BBSHD, and G320 motors.

The EB02-UART display uses a 5-pin female connector for connection to your motor's wiring harness.



Image 3: Detail of the UART Protocol 5-pin female connector used by the EB02-UART display.

5. Installation and Setup

- Mounting the Display:** Securely attach the display unit to your bicycle's handlebars using the provided mounting clips and screws. Ensure it is positioned for clear visibility and easy access to buttons without obstructing your view or controls.
- Connecting to the Motor:** Locate the corresponding UART connector on your Bafang mid-mounted motor's wiring harness. Carefully align the 5-pin female connector of the EB02-UART display with the motor's male connector and push firmly until it clicks into place. Ensure the connection is secure and waterproof.
- Cable Management:** Route the display cable along the bicycle frame, securing it with cable ties to prevent snagging or damage.
- Initial Power On:** After installation, turn on your electric bicycle's main power. The display should illuminate and show initial readings.

6. Operating Instructions

The EB02-UART display provides various functions to enhance your riding experience.

- **Power On/Off:** Press and hold the power button (usually marked with a power symbol) to turn the display on or off.
- **Changing Assist Levels:** Use the '+' and '-' buttons to increase or decrease the motor's pedal assist level. The current level will be shown on the screen.
- **Displaying Information:** Press the 'TRIP' or 'MODE' button (button labels may vary slightly) to cycle through different information displays such as current speed, average speed, maximum speed, trip distance, odometer (total distance), battery level, and time.
- **Headlight Control:** Some displays allow control of the bicycle's headlights. Refer to your specific display's button layout for this function.
- **Walk Assist Mode:** If available, press and hold the '-' button (or a dedicated walk assist button) to activate walk assist, which provides low-speed motor assistance for pushing the bike.

7. Maintenance

- **Cleaning:** Wipe the display screen and casing with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, store the display in a dry, cool place, away from direct sunlight.
- **Connection Check:** Periodically inspect the cable connections for any signs of wear or damage. Ensure they remain securely fastened.
- **Water Exposure:** While the display is designed to be weather-resistant, avoid submerging it in water or exposing it to heavy rain for prolonged periods.

8. Troubleshooting

- **Display Not Turning On:**
 - Check if the main battery of the electric bicycle is charged and turned on.
 - Verify that the display cable is securely connected to the motor's wiring harness.
 - Inspect the cable for any visible damage.
- **Incorrect Speed/Distance Readings:**
 - Ensure the wheel size setting in the display's menu (if applicable) matches your bicycle's wheel size.
 - Check the speed sensor and its magnet for proper alignment and function.
- **Motor Not Responding to Display:**
 - Confirm that your motor uses the UART protocol. This display is not compatible with CAN protocol motors.
 - Ensure all connections are firm.
 - Restart the system by turning the bicycle's power off and then on again.

9. Specifications

Feature	Specification
Model	EB02-UART
Communication Protocol	UART

Compatible Motors	Bafang Mid-Mounted Motors (BBS01, BBS02, M560, M600, etc. with UART protocol)
Connector Type	5-pin Female
Material	Plastic
Product Dimensions	6"L x 4"W x 1"H (Approximate)
Item Weight	9.6 ounces (Approximate)
Display Type	LCD
Included Components	Display Unit, Control Panel, Mounting Clips, Mounting Screws

10. Warranty and Support

For warranty information or technical support, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase. Do not attempt to repair the unit yourself, as this may void the warranty.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question