

[Manuals.plus](#) /

› [mGYDY](#) /

› mGYDY Bafang 810S LCD eBike Display User Manual

## mGYDY 810S

# mGYDY Bafang 810S LCD eBike Display User Manual

Model: 810S

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your mGYDY Bafang 810S LCD eBike Display. Please read this manual thoroughly before using the product to ensure proper function and safety.

## 2. SAFETY INFORMATION

- Always ensure the display is securely mounted before riding.
- Do not attempt to disassemble or modify the display. This may void the warranty and cause damage.
- Keep the display away from extreme temperatures and direct sunlight for prolonged periods.
- Ensure all connections are dry and properly sealed before use, especially in wet conditions.
- Pay attention to your surroundings while riding. Do not become overly distracted by the display.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Bafang 810S LCD Display
- 1 x Display Holder
- Gaskets for installation

## 4. PRODUCT OVERVIEW

The mGYDY Bafang 810S LCD eBike Display is designed to provide essential riding data and control for your Bafang mid-drive motor system. It features a color VA LCD screen for clear visibility in various lighting conditions.



**Image:** Overview of the Bafang 810S display showing various instrument features such as headlamps, speed loop, battery display, speed display, assist gear, fault prompt, walking mode, brake prompt, mileage mode, and mileage display.

### Key Features:

- **Color VA LCD:** Wide viewing angle, no flicker, high brightness for better visual effect under sunlight.
- **Independent Button:** Easy to operate interface.
- **Comprehensive Data Display:** Speed (Real-time, MAX, AVG), Mileage (Odometer, Trip distance, Riding Time), Battery indicator (5-level, Voltage percentage).
- **Adjustable Brightness:** Day and Night Mode with 5-level brightness adjustment (1: darkest; 5: brightest).
- **Assistant Level Control:** 3, 5, or 9 adjustable assist levels.
- **Walking Mode:** Provides assistance when walking alongside your e-bike.

- **Error Code Display:** Indicates system faults.
- **Waterproof Grade:** IP65, resistant to rain and splashing water.

## 5. SPECIFICATIONS

| Parameter             | Value                         |
|-----------------------|-------------------------------|
| Power Supply          | 24V/36V/48V/52V               |
| Rated Current         | 18mA/36V                      |
| Weight                | 145g                          |
| Support Levels Mode   | 0-9                           |
| Rated Power           | 1W                            |
| Maximum Power         | 5W                            |
| Communication Mode    | UART                          |
| Operating Temperature | -20°C 70°C                    |
| Storage Temperature   | -30°C 80°C                    |
| Waterproof Grade      | IP65                          |
| Storage Humidity      | 30%-70%                       |
| Material              | ABS                           |
| Handlebar Adaption    | φ22.2mm (0.87in)              |
| Display Wire Length   | 580mm (22.8in)                |
| Dimensions (H x W)    | 90mm (3.54in) x 55mm (2.16in) |
| Plug Type             | 5-pin Female                  |

BAFANG

## Product parameters

Liquid display, shows information of battery percentage, speed, mileage, etc.



|                         |                            |
|-------------------------|----------------------------|
| ○ Approval              | ○ Waterproof Grade         |
| ROHS                    | IP65                       |
| ○ Display Wire Length   | ○ Display Weight           |
| 580mm/22.8in            | 145g                       |
| ○ Handlebar Adaption    | ○ Communication Protocol   |
| 22.2mm                  | UART                       |
| ○ Working current about | ○ Shutdown leakage current |
| 50 mA                   | <1uA                       |
| ○ Power Supply          | ○ Service Temperature      |
| 24V/36V/48V/52V         | -20°C~+60°C                |

### Note:

There may be some deviation between the actual product and the picture, please refer to the actual product. The data is manually measured, and there may be an error of about 1mm. We apologize for any inconvenience caused.

**Image:** Detailed product parameters including dimensions, power supply, waterproof grade, and communication protocol.

## 6. SETUP AND INSTALLATION

### Compatibility Check:

The 810S display is designed for Bafang mid-drive motors (BBS01, BBS02, BBSHD) that use the **UART communication protocol** and a **5-pin female plug**. It is not compatible with CAN protocol motors or male plugs.



# DOES IT FIT MY E-BIKE?

## BAFANG 810S DISPLAY



UART PROTOCOL  
5Pin Female



CAN PROTOCOL  
5Pin Male



BAFANG BBS  
SERIES MOTOR



BAFANG  
HUB MOTOR



INCOMPATIBLE CAN  
PROTOCOL MOTOR

**Image:** Visual guide for checking compatibility with UART protocol 5-pin female connectors and Bafang BBS series or hub motors. Incompatible with CAN protocol motors.

### Installation Steps:

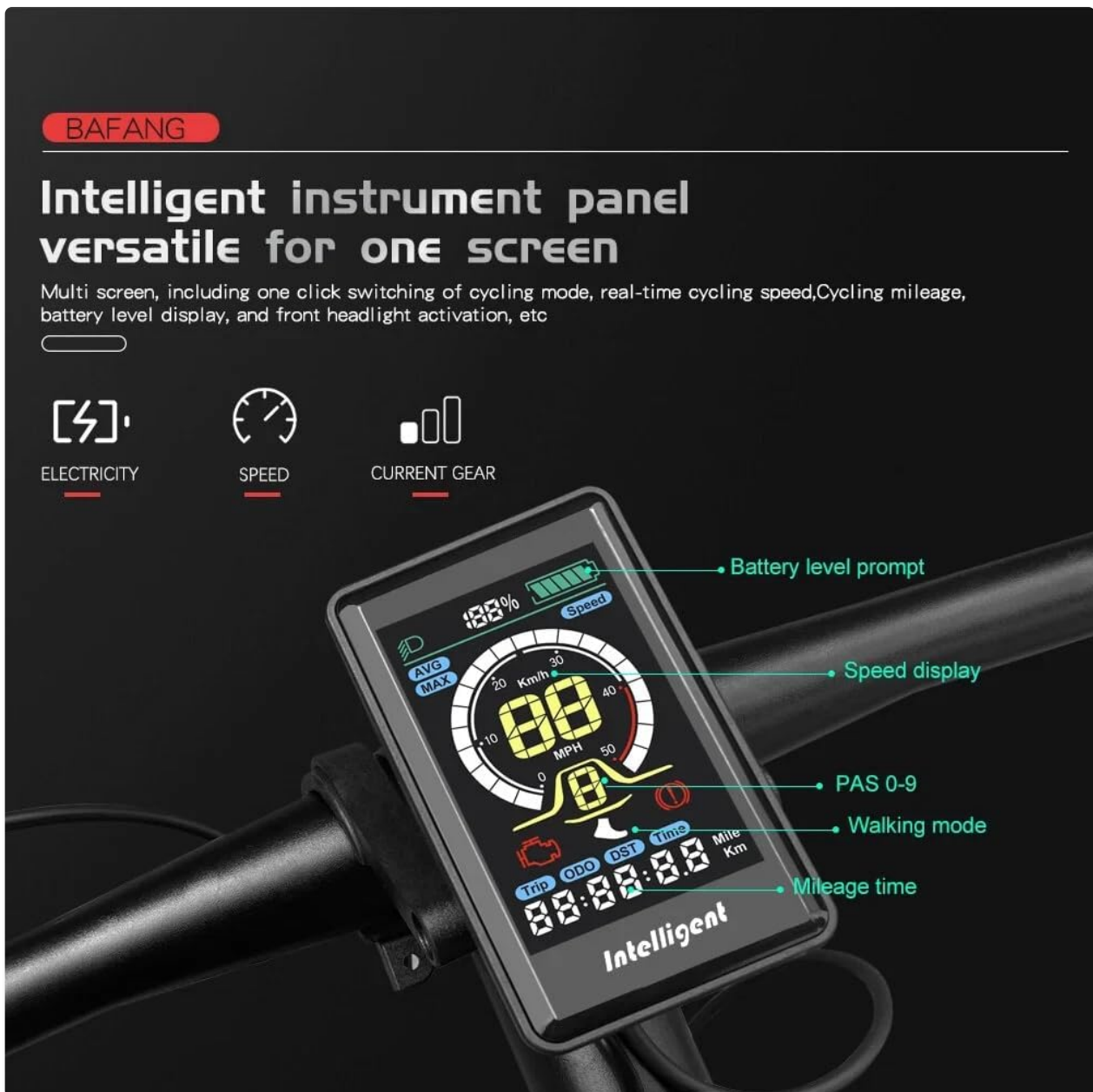
1. **Mount the Display:** Install the 810S display holder on the left side of your e-bike's handlebar. The holder is designed for handlebars with a diameter of  $\phi 22.2\text{mm}$  (0.87in). Secure it firmly using the provided gaskets and screws.
2. **Connect the Cable:** Carefully connect the 5-pin female plug of the display to the corresponding 5-pin male plug on your e-bike's wiring harness. Ensure the connection is secure and fully seated.
3. **Cable Management:** Route the display cable neatly along the handlebar and frame, securing it with cable ties to prevent interference with moving parts.
4. **Initial Power-On:** After installation, power on your e-bike to verify the display functions correctly.

## 7. OPERATING INSTRUCTIONS

The 810S display features an intuitive interface with an independent button for navigation and settings.

### Display Functions:

- **Speed Indicator:** Shows real-time speed, maximum speed (MAX), and average speed (AVG).
- **Mileage Indicator:** Displays Odometer (total distance), Trip distance, and Riding Time.
- **Battery Indicator:** Provides a 5-level power indicator and voltage percentage for accurate battery status.
- **Assistant Level:** Adjust pedal assist levels from 0-9 (or 3/5/9 depending on configuration).
- **Headlight Control:** Activate or deactivate your e-bike's headlight (if connected).
- **Walking Mode:** Engage for low-speed assistance when pushing the bike.
- **Error Code:** Displays codes if a system fault is detected.



**Image:** The intelligent instrument panel displaying electricity, speed, current gear, battery level prompt, speed display, PAS levels, walking mode, and mileage time.

## Settings Adjustment:

- **Brightness Setting:** Toggle between Day and Night modes. Adjust brightness through 5 levels (1 being darkest, 5 brightest) to suit ambient light conditions.
- **Metric / Imperial:** Set units according to your preference (Km/h or Mph, Km or Miles).
- **Power-on Password:** Configure a password for added security (refer to your e-bike controller manual for specific instructions if applicable).



**Image:** Illustration of the display's brightness adjustment feature, showing optimal visibility in both day and night conditions.

## 8. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your 810S display.

- **Cleaning:** Use a soft, damp cloth to clean the display screen. Avoid abrasive cleaners or solvents that could damage the screen or casing.
- **Water Resistance:** The display has an IP65 waterproof rating, meaning it is protected against dust and low-pressure water jets. While it can withstand rain and splashes, avoid submerging it in water or exposing it to high-pressure washing.
- **Storage:** When not in use for extended periods, store the e-bike and display in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Connection Check:** Periodically check the cable connection for any signs of wear or corrosion. Ensure it remains securely plugged in.

BAFANG

## IP65 level strong waterproof

It can resist rainstorm or strong water splashing and calmly cope with severe weather



**Image:** The Bafang 810S display demonstrating its IP65 waterproof capability, showing it can resist rain and water splashing.

## 9. TROUBLESHOOTING

If you encounter issues with your 810S display, refer to the following common troubleshooting tips:

- **Display Not Turning On:**

- Check if the e-bike battery is charged and turned on.
- Verify that the 5-pin cable connection between the display and the controller is secure and undamaged.

- **No Speed/Mileage Data:**

- Ensure the speed sensor on your e-bike is properly installed and aligned.
- Check for any loose connections to the speed sensor.

- **Error Code Displayed:**

- Note down the error code. Refer to your Bafang motor or controller manual for specific error code meanings and solutions.

- Often, turning the e-bike off and on again can clear temporary errors.

- **Inaccurate Readings:**

- Ensure the wheel circumference setting in the display's advanced settings (if accessible) matches your e-bike's wheel size.

If problems persist, contact the seller or a qualified e-bike technician for assistance.

---

## 10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your proof of purchase for warranty claims.

---