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› [BAFANG C18 LCD Display for 8fun Mid Motor, Electric Bike Display for BBS02B, BBS-HD Mid Motor, Electric Bike Conversion Kit with UART Protocol - 5 Pin Female Connector User Manual](#)

BAFANG US JJ DPC18-UART Display

BAFANG C18 LCD Display User Manual

Model: US JJ DPC18-UART Display | Brand: BAFANG

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your BAFANG C18 LCD Display. The BAFANG C18 LCD Display is designed for BAFANG mid-motors using the UART communication protocol, offering clear and comprehensive riding data for an enhanced electric bike experience.

The display features a 3.5-inch TFT color screen and an external 5-key keyboard, housed in a durable PC shell with a hardened PMMA LCD display. It is waterproof and dustproof with an IP65 rating, ensuring reliability in various conditions.

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.
- Avoid exposing the display to extreme temperatures outside its operating range (-20°C to 45°C).
- While the display is IP65 rated for water and dust resistance, avoid submerging it in water or using high-pressure water jets directly on it.
- Keep the screen clean and free from obstructions to ensure clear visibility of riding data.
- Always prioritize road safety. Do not operate the display or adjust settings while riding in traffic.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- BAFANG C18 LCD Display Unit
- External 5-key Keyboard
- Mounting Brackets (for screen and keyboard)
- Connecting Cables

4. SETUP AND INSTALLATION

4.1 Compatibility

The BAFANG C18 LCD Display is compatible only with BAFANG motors that utilize the UART communication protocol versions 5.0 to 5.8. It is designed for BAFANG BBS series mid-motors and BAFANG Hub Motors. Please ensure your motor uses a 5-pin female round UART protocol connector.

UNIVERSAL COMPATIBILITY



UART PROTOCOL
5 Pin Female Round



CAN PROTOCOL
5 Pin Male Triangular



- M215 MMG340.250.C
- M315 MM G340.250.C
- M315 MM G340.350.C
- M315 MM G340.500.C
- M315 MM G340.750.C
- M615 MM G320.1000.C

BAFANG BBS Series Motor



Other Brand Motor



- RM G020.36V 250w.DC
- RM G020.48V 500w.DC
- FM G020.500.D
- RM G0F0.48V 750w.DC
- RM G060.48V 750w.DC
- RM G062.48V 1000w.DC
- RM G0900.48V 750w.DC

BAFANG Hub Motor



- M620 MMG510.750.C
- M620 MMG510.1000.C
- M225 MM G341.250.C
- M325 MM G341.500.C
- M625 MM G321.750.C
- M625 MM G321.750.C
- M625 MM G321.1000.C
- M625 MM G321.1000.C

Other BAFANG Mid Drive Motor

! We would send message to confirm the order detail with you, please notice your amazon inbox

Figure 4.1: Compatibility Overview. This image illustrates the compatible UART protocol (5-pin female round) for BAFANG BBS Series and Hub Motors, and incompatible CAN protocol (5-pin male triangular) for other brands and certain BAFANG mid-drive motors.

4.2 Mounting the Display and Keyboard

The display screen bracket is suitable for handlebar diameters of Ø22.2 mm, Ø25.4 mm, and Ø31.8 mm. The keyboard bracket is designed for Ø22.2 mm handlebars.

1. Select an appropriate position on your handlebar for the display unit, ensuring it does not obstruct your view or interfere with braking/shifting.
2. Attach the display bracket to the handlebar and secure it firmly using the provided screws.
3. Slide the display unit onto the bracket until it clicks into place.
4. Mount the 5-key external keyboard near the display, in a position that allows for easy access with your thumb while riding.

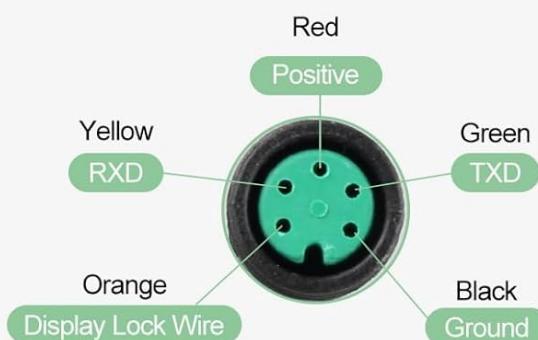
4.3 Wiring Connections

Connect the display to your BAFANG motor system using the provided 5-pin female connector. Ensure the connection is secure and the wires are not pinched.

CABLE PARAMETERS

- This image shows the wiring diagram of the display cable coming from the 1T4 cable.
- Please confirm with the seller of motor that if your cable is with the same wiring diagram.
- Attention: If the wiring diagram is different, the display will not work.

Female 5 Pins Our Display Connector



Male 5 Pins Our EB1T4 Connector

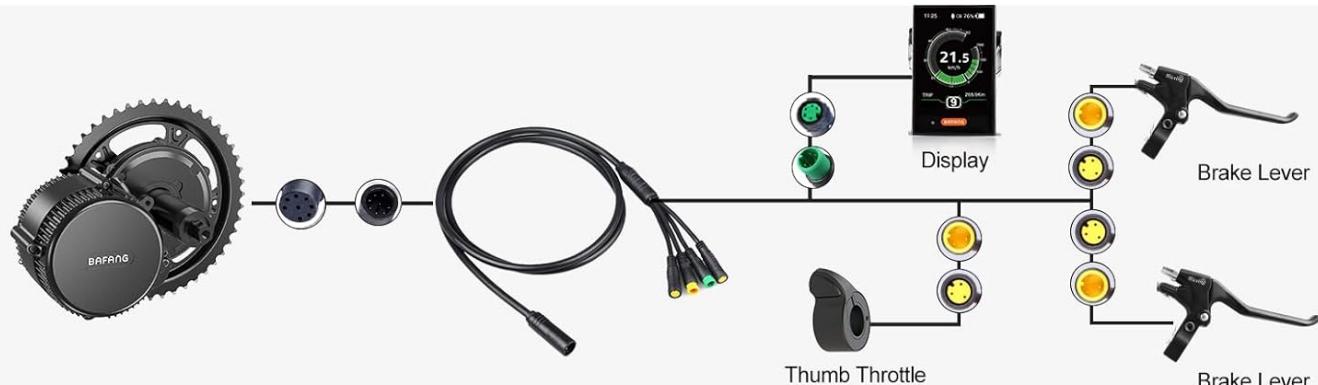


Figure 4.2: Cable Parameters and Wiring Diagram. This image details the pinout for the 5-pin female display connector (Red: Positive, Yellow: RXD, Green: TXD, Orange: Display Lock Wire, Black: Ground) and the corresponding male EB1T4 connector. It also provides a schematic of the display's connection to the motor, brake levers, and thumb throttle.

Important: Confirm that your motor's cable wiring diagram matches the one shown. If the wiring diagram is different, the display will not function correctly.

5. OPERATING THE DISPLAY

5.1 Display Overview

The 3.5-inch TFT color screen provides a clear and comprehensive view of your riding data. The external 5-key keyboard allows for easy navigation and control.



Figure 5.1: Multifunction LCD Display. This image highlights the various data points displayed on the BAFANG C18 screen, including time, battery level, headlight status, current speed, power/current output, total mileage, PAS level, speed scale, and trip mileage. It also shows the USB charging capability.

5.2 Key Functions

- **Power Button:** Press and hold to turn the display ON/OFF.
- **Up/Down Buttons (+/-):** Adjust the Pedal Assist System (PAS) level (0-3, 0-5, or 0-9, depending on configuration). These buttons may also navigate menu options.
- **Mode/Info Button (i):** Cycle through different display modes (e.g., Trip Distance, Odometer, Max Speed, Average Speed, Energy Consumption, Calories).
- **Light Button:** Turn the bike's headlights ON/OFF (if connected and supported).

5.3 Features and Functions

- **Automatic Light Sensing:** The display can automatically adjust its backlight brightness based on ambient light conditions.
- **5-Level Backlight:** Manually adjust the screen brightness for optimal visibility in various lighting environments.
- **USB Charging Port:** A convenient USB port is integrated for charging external devices like smartphones.

- **PAS Level Selection:** Supports various pedal assist level modes (0-3, 0-5, 0-9) without separate ECO and Sport modes.
- **Real-time Data Display:** Shows motor riding output power (W), output current (A), remaining mileage range, and estimated energy consumption (calories).



Figure 5.2: High-tech Display Features. This image highlights key features such as adjustable PAS levels (0-9), versatile holder sizes for different handlebar diameters, the 2.7-inch LCD screen, 1-5 brightness settings, and the integrated USB charging port.

6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to wipe the display screen and body. Do not use abrasive cleaners, solvents, or high-pressure water.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion.
- **Storage:** When storing your e-bike for extended periods, especially in cold conditions, it is advisable to remove the display and store it in a dry, room-temperature environment.
- **Impact Protection:** While durable, avoid dropping the display or subjecting it to strong impacts.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display does not power on.	Loose cable connection, low battery, incompatible motor.	Check all connections. Ensure the e-bike battery is charged. Verify motor compatibility (UART protocol).
No data displayed (speed, PAS level).	Sensor issue, communication error.	Check motor and speed sensor connections. Restart the system.
Screen is dim or unreadable.	Backlight setting, direct sunlight.	Adjust backlight brightness. Move to a shaded area if in direct sunlight.
USB charging not working.	Cable issue, device incompatibility.	Try a different USB cable and device. Ensure the display is powered on.

If you encounter issues not listed here or if the problem persists, please contact BAFANG customer support for assistance.

8. SPECIFICATIONS

PRODUCT SPECIFICATION



• Connector:	5PIN Female	• Size:	L96mm * W62mm
• Protocol:	UART	• Holer:	φ22.2mm/25.4mm/31.8mm
• Screen:	3.5" LCD Screen	• Cable Length:	233mm
• Voltage:	36V / 43V / 48V	• Waterproof:	IP65
• PAS Level:	0-3,0-5,0-9 Optional	• Rated Operating Current:	10mA
• Advanced password:	1919	• Max. Output Current:	30mA
• Speed Limited:	10km/h ~ 60km/h	• Operating Temperature:	-20°C ~ 45°C
• Brightness:	1-5 Optional	• Storage Temperature:	-30°C ~ 70°C
• USB Port:	Yes	• Light-sensitive:	Yes

Figure 8.1: Product Specifications. This image provides a visual representation of the display's dimensions and a detailed table of its technical specifications.

Parameter	Value
Rated Voltage	36V/43V/48V DC
Rated Current	10mA
Maximum Operating Current	30mA
Leak Current (Power Off)	≤1uA
Operating Current Supplied to Controller	50mA
Operating Temperature	-20°C ~ 45°C
Storage Temperature	-30°C ~ 70°C

Parameter	Value
IP Level	IP65
Storage Humidity	30%-70%
Screen Type	3.5-inch TFT Color Screen
Connector Type	5 Pin Female Connector (UART Protocol)
Handlebar Clamp Diameter	Ø22.2/25.4/31.8 mm (Screen), Ø22.2 mm (Keyboard)
Cable Length	233mm

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The BAFANG C18 LCD Display comes with a warranty of 30 days for returns and 365 days for repair or replacement. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact BAFANG customer support. Refer to the official BAFANG website or your purchase documentation for contact details.

You can also visit the official BAFANG Store on Amazon for more information and support resources: [BAFANG Amazon Store](#).