

BAFANG C961 DP C01.UART

Bafang C961 DP C01.UART Display User Manual

For BBS01, BBS02, and BBSHD Mid Drive Electric Motor Kits

INTRODUCTION

The BAFANG C961 DP C01.UART Display is a high-contrast LCD unit designed to provide essential information for your Bafang mid-drive electric motor kit. It offers clear readability even in direct sunlight and features an intuitive user interface for easy operation. This display is compatible with the Bus system RS 232 and is built to withstand environmental elements, complying with IP 65 protection class for resistance against contact, water, and dirt ingress.

Key functions include:

- Multiple Power Levels settings (Mode)
- Remaining Battery Capacity indication
- Speed display (Current, Maximum, Average)
- Distance and Odometer (Trip, Total)
- Real-time clock display
- Assist walking function (slow speed motor assist)
- Backlight control
- Error code display for system diagnostics



Image: The Bafang C961 display unit with its wired handlebar controller, showcasing the main components of the system.

SETUP AND INSTALLATION

Proper installation ensures optimal performance and longevity of your Bafang C961 display. This display is designed for use with Bafang BBS01, BBS02, and BBSHD mid-drive motor kits.

1. Mounting the Display

Mount the C961 display securely on your bicycle's handlebars. Ensure it is positioned for easy viewing while riding and does not obstruct other controls. The display typically mounts using a clamp system that attaches to the handlebar.



Image: Rear view of the Bafang C961 display, illustrating the mounting brackets and screw points for handlebar attachment.

2. Connecting the Controller

The handlebar controller connects to the display via a dedicated cable. Mount the controller next to your grip for convenient access to its buttons. The controller features a 5-pin waterproof plug for a secure and reliable connection to the main motor system.



Image: A close-up of the Bafang C961 handlebar controller, showing the power, plus, and minus buttons.

3. Electrical Connection

Connect the display's main cable to the corresponding port on your Bafang mid-drive motor system. This connection is typically a 5-pin waterproof plug. Ensure the connection is firm and the protective cap is used if the plug is exposed.



Image: A detailed view of the 5-pin waterproof connector used for the Bafang C961 display, highlighting its robust design.

Note on Battery Compatibility: The display works with 36V, 48V, and 52V batteries. However, the battery level indicator will be most accurate when used with a 48V battery. 36V batteries also work perfectly.

OPERATING INSTRUCTIONS

The Bafang C961 display provides a clear and intuitive interface for controlling your electric bike's functions.

1. Powering On/Off

- To turn on the display, press and hold the power button (⏻) on the handlebar controller.
- To turn off the display, press and hold the power button (⏻) again until the screen shuts down.



Image: The Bafang C961 display powered on, showing battery level, assist level, current speed (0.0 Km/h), time (08:40 h:m), trip distance (43.7 Km), and the C961 model designation.

2. Adjusting Assist Levels

The display allows for multiple power level settings, typically ranging from 0-3, 0-5, or 0-9, depending on your system's configuration. Use the + and - buttons on the controller to increase or decrease the pedal assist level.

- Press + to increase the assist level.
- Press - to decrease the assist level.

3. Displaying Information

The C961 display cycles through various information screens. Short presses of the power button (⏻) or another designated button (if available) may switch between different data views such as current speed, max speed, average speed, trip distance, and total odometer.

4. Backlight Control

To turn on the C961's backlight screen, press and hold the power button (⏻). Repeat the action to turn it off.

5. Assist Walking Function

This function provides slow-speed motor assist, useful when walking the bike. Consult your specific motor kit manual for activation details, as it often involves holding a specific button (e.g., the - button) for a few seconds.

MAINTENANCE

To ensure the longevity and proper functioning of your Bafang C961 display, follow these maintenance guidelines:

- **Cleaning:** Wipe the display screen and body with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the acrylic material or electronic components.
- **Protection:** The display is rated IP 65 for protection against dust and water splashes. While it is robust, avoid submerging the display in water or exposing it to high-pressure water jets.
- **Connections:** Periodically check all cable connections, especially the 5-pin waterproof plug, to ensure they are secure and free from dirt or corrosion.
- **Storage:** When not in use for extended periods, store the bicycle and display in a dry, temperate environment to prevent damage from extreme temperatures or humidity.

TROUBLESHOOTING

The C961 display is designed to be reliable, but should an issue arise, the display can provide error codes to assist in diagnosis.

- **Error Codes:** If something goes wrong with the system, an error code will flash on the display. Refer to your Bafang motor kit's comprehensive manual for a list of specific error codes and their corresponding solutions. Common issues might include sensor malfunctions, communication errors, or motor faults.
- **Display Not Powering On:**
 - Check battery charge level.
 - Ensure all electrical connections, especially the 5-pin plug, are firmly seated.
 - Verify the power button on the controller is functioning correctly.
- **Inaccurate Battery Level:**
 - Ensure your battery voltage matches the display's optimal setting (48V for best accuracy). While 36V and 52V batteries work, the indicator may be less precise.
- **No Speed Reading:**
 - Check the speed sensor and its magnet on the wheel for proper alignment and function.
 - Inspect the speed sensor cable for damage or loose connections.

For persistent issues, it is recommended to consult a qualified electric bike technician or contact Bafang customer support.

SPECIFICATIONS

Feature	Detail
Model	C961 DP C01.UART
Compatibility	Bafang BBS01, BBS02, BBSHD Mid Drive Motor Kits
Display Type	High-contrast LCD
Communication Protocol	RS 232 Bus system
Connector Type	5-Pin Waterproof Plug
Protection Class	IP 65 (Dust tight, protected against water jets)
Material	Acrylic (Outer Material)
Item Weight	180 Grams (0.18 Kilograms)

Recommended Voltage	36V, 48V, 52V (48V for accurate battery indicator)
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WARRANTY AND SUPPORT

Information regarding specific warranty terms for the Bafang C961 DP C01.UART Display is typically provided by the retailer or Bafang directly at the time of purchase. Please retain your proof of purchase for any warranty claims.

For technical support, troubleshooting beyond the scope of this manual, or inquiries about replacement parts, please contact your authorized Bafang dealer or visit the official Bafang website for support resources.

OFFICIAL PRODUCT VIDEOS

No official product videos from the seller are available for this product at this time.