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BAFANG

BAFANG 3.5in eBike Display DPC18 User Manual

For BBS01B BBS02B BBSHD Mid Motor

1. INTRODUCTION

The BAFANG 3.5in eBike Display DPC18 is an advanced computer display designed to enhance your electric bicycle riding experience. It provides essential ride data, control over pedal assist levels, and additional convenient features. This display is specifically engineered for seamless integration with BAFANG BBS01B, BBS02B, and BBSHD mid-drive motors, utilizing the UART communication protocol.



Figure 1: BAFANG DPC18 Display on an eBike handlebar, showing current speed and battery level.

Key Features:

- **3.5-inch HD Screen:** Provides clear and easy-to-read data while riding.
- **Automatic Backlight:** Adjusts screen brightness automatically based on ambient light conditions for optimal visibility.
- **USB Output:** Features a USB port for convenient phone charging on the go.
- **IPX5 Waterproof Rating:** Ensures reliable performance in various weather conditions, from light sprinkles to moderate rain.
- **UART Protocol:** Designed for specific compatibility with BAFANG BBS series mid-drive motors.

2. COMPATIBILITY

The BAFANG DPC18 display is designed exclusively for BAFANG BBS01B, BBS02B, and BBSHD mid-drive motors that utilize the UART communication protocol. It is crucial to verify your motor's compatibility before installation. This display is **not** compatible with other motor types or BAFANG motors using the CAN protocol.

ATTENTION!!!



Figure 2: Visual guide for DPC18 display compatibility, highlighting the required UART 5-pin round connector and BAFANG BBS Series Motors.

Important Compatibility Check:

Ensure your motor's connector is a 5-pin female round type, indicating UART protocol. If your motor uses a 5-pin male triangular connector (CAN protocol) or is from a different brand/series (e.g., BAFANG Hub Motor, other BAFANG Mid Drive Motor not in the BBS series), this display will not function correctly.

Your browser does not support the video tag.

Video 1: This video explains why the BAFANG DPC18 display may not work with certain e-bike setups, focusing on connector types and motor compatibility (UART vs. CAN protocol).

3. INSTALLATION

Follow these steps to properly install your BAFANG DPC18 display on your e-bike handlebar:

- 1. Unpack Components:** Carefully remove the display unit, control pad, and mounting accessories from the packaging.
- 2. Loosen Screws:** Loosen all screws on the display's mounting bracket.

3. **Mount Display:** Position the display onto your e-bike handlebar. Ensure it is centered and at a comfortable viewing angle.
4. **Install Control Pad:** Attach the control pad to the handlebar, typically near the left grip, ensuring easy access to its buttons.
5. **Connect Cables:** Locate the display connector from your e-bike's wiring harness and connect it to the display's corresponding cable. Ensure a secure connection.
6. **Adjust Angle & Tighten:** Adjust the display and control pad to your preferred angle. Securely tighten all screws on both mounting brackets. Do not overtighten.
7. **Power On & Test:** Press the power button on the control pad to turn on the display and verify proper functionality.

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Video 2: This video provides a step-by-step guide for installing the BAFANG C18 Display on an e-bike handlebar, including unpacking, mounting, connecting cables, and initial power-on.

4. OPERATING INSTRUCTIONS

The DPC18 display features an intuitive control pad for easy operation. Familiarize yourself with the buttons and their functions:



Figure 3: Ergonomically designed control pad for the DPC18 display, showing button layout.

Button Functions:

- **Power Button:** Press and hold to turn the display ON/OFF.
- **‘+’ Button:** Increases Pedal Assist System (PAS) level.
- **‘-’ Button:** Decreases Pedal Assist System (PAS) level.
- **Light Button:** Toggles the e-bike's front lamp ON/OFF.
- **‘i’ (Info) Button:** Cycles through various display information (e.g., Trip, ODO, Max Speed, Avg Speed). Double-tap to enter Display Settings.

Adjusting PAS Levels:

The DPC18 display supports multiple PAS levels (e.g., 0-3, 0-5, 0-9) depending on your motor's configuration. Use the '+' and '-' buttons to adjust the level of motor assistance. Level 0 indicates no assistance.

Your browser does not support the video tag.

Video 3: This video demonstrates how to access and adjust various settings on the BAFANG C18 Display, including changing PAS levels and other display configurations.

Display Settings:

To access the display settings menu, double-tap the 'i' (Info) button. From this menu, you can configure various parameters such as:

- **Unit:** Switch between Imperial (MPH) and Metric (KM/H).
- **Brightness:** Adjust screen brightness.
- **Auto Off:** Set the time before the display automatically turns off due to inactivity.
- **MAX PAS:** Set the maximum pedal assist level (e.g., 3, 5, or 9).
- **Wheel Size:** Configure the wheel diameter for accurate speed and distance readings.
- **Speed Limit:** Adjust the maximum assisted speed.
- **Password:** Set or change a password for display access.

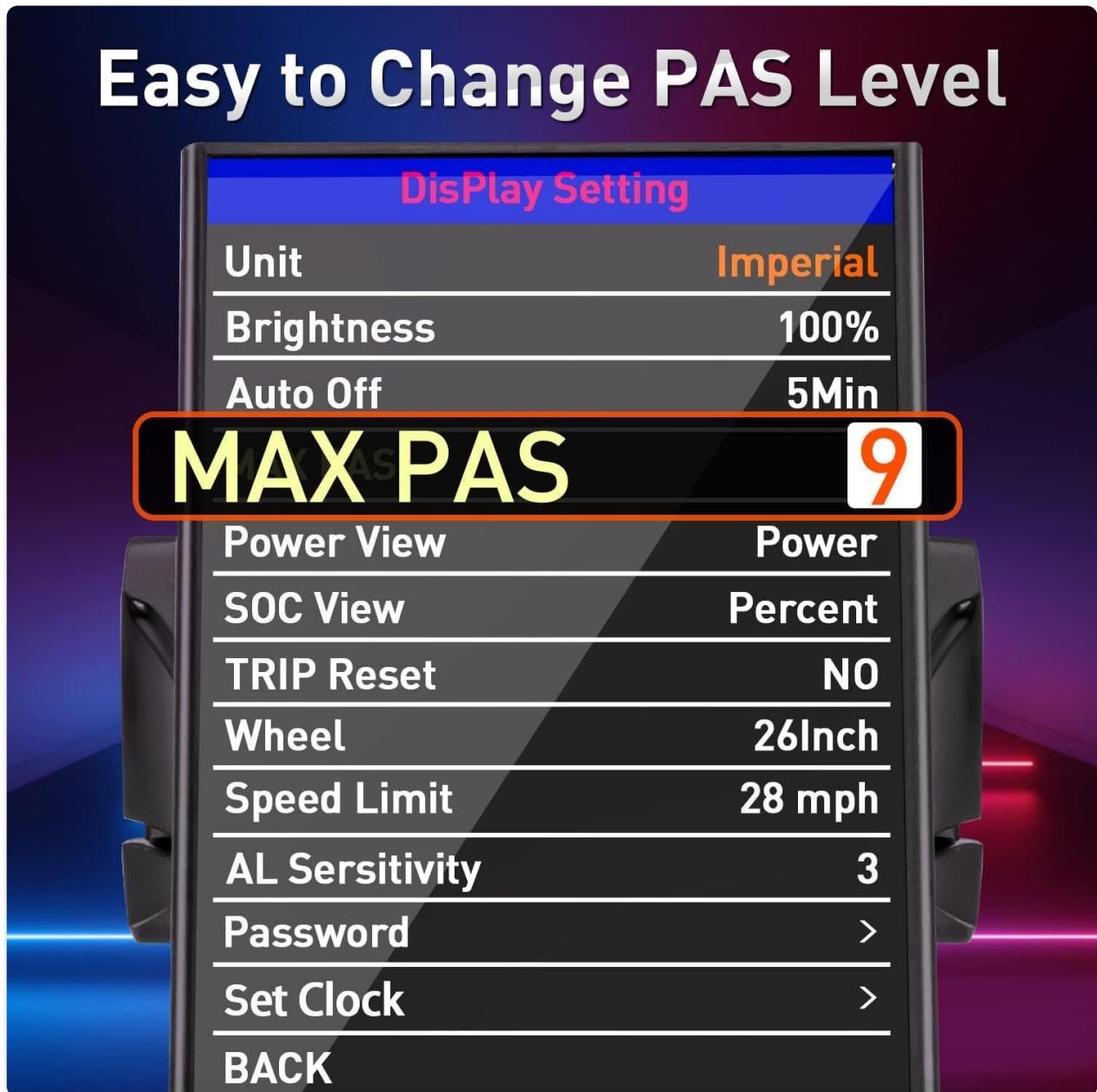


Figure 4: The 'DisPlay Setting' menu on the DPC18 display, allowing customization of various operational parameters.

USB Charging Port:

The display includes a built-in USB charging port (5V/0.5A output) located on the underside. This allows you to charge your smartphone or other small electronic devices while riding.



Figure 5: The USB charging port on the BAFANG DPC18 display for convenient device charging.

5. MAINTENANCE

To ensure the longevity and optimal performance of your BAFANG DPC18 display, follow these maintenance guidelines:

- **Regular Cleaning:** Wipe the display screen and body with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the screen or casing.
- **Protect from Extreme Conditions:** While the display is IPX5 waterproof, prolonged exposure to heavy rain or submersion is not recommended. Avoid extreme temperatures.
- **Secure Mounting:** Periodically check that the display and control pad are securely mounted to the handlebar. Tighten screws if necessary, but do not overtighten.
- **Cable Inspection:** Inspect all cables and connectors for any signs of wear, damage, or corrosion. Ensure connections are clean and dry.
- **Software Updates:** Check the official BAFANG website or contact support for any available firmware updates that may improve performance or add new features.

6. TROUBLESHOOTING

If you encounter issues with your BAFANG DPC18 display, consider the following common troubleshooting steps:

Display Not Powering On:

- **Check Power Button:** Ensure you are pressing and holding the power button for a sufficient duration (typically 2-3 seconds).
- **Battery Level:** Verify that your e-bike's main battery has sufficient charge.
- **Cable Connections:** Inspect all cable connections, especially the main power cable to the display, for looseness or damage. Reconnect securely.

Display Not Showing Correct Data / No Motor Assistance:

- **Compatibility:** Re-verify that your motor is a BAFANG BBS series mid-drive motor and uses the UART protocol (5-pin round connector). This is the most common reason for non-functionality.
- **Sensor Issues:** Ensure the speed sensor is properly installed and aligned.
- **Display Settings:** Check the wheel size setting in the display menu to ensure it matches your e-bike's wheel size.
- **Error Codes:** If the display shows an error code, consult the BAFANG error code list (often found in the motor's manual or online resources) for specific diagnostic information.

Screen Brightness Issues:

- **Automatic Backlight:** The display has an automatic backlight feature. Ensure it's not in a very dark or very bright environment that might affect its auto-adjustment.
- **Manual Adjustment:** Access the 'Display Setting' menu to manually adjust the brightness level.

7. SPECIFICATIONS

Feature	Specification
Brand	BAFANG
Model Name	DPC18
Screen Size	3.5 Inches
Display Type	LCD
Color	BLACK
Connectivity Technology	UART Protocol
Compatible Motors	BAFANG BBS01B, BBS02B, BBSHD Mid Motors
International Protection Rating	IPX5
USB Output	5V/0.5A for Phone Charging
Human Interface Input	Buttons

Feature	Specification
Mounting Type	Handlebar Mount
Adaptive Voltage	36V/43V/48V

8. WARRANTY & SUPPORT

Warranty Information:

The BAFANG DPC18 eBike 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.

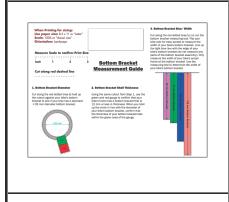
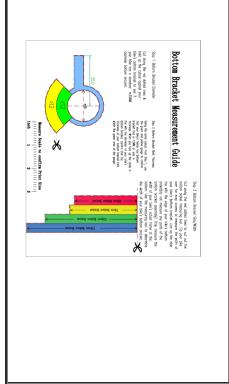
Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please contact BAFANG customer support through their official website or the retailer from whom you purchased the product. Provide your product model number (DPC18) and a detailed description of the issue to facilitate faster service.

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Related Documents -

 <p>USER MANUAL BBS Series Drive System When using a mid-drive system, please make sure to comply with the local laws and regulations. Please read the manual carefully before use. For more information, please visit www.bafang.com</p>	<p>Bafang BBS Series Drive System User Manual Comprehensive user manual for the Bafang BBS Series Drive System, covering installation, operation, maintenance, and troubleshooting for e-bike conversion kits.</p>
 <p>USER GUIDANCE MANUAL BBS Series Drive System Thank you for using our product. Please make sure to comply with the local laws and regulations.</p>	<p>Bafang BBS Series Drive System User Guidance Manual Comprehensive user manual for Bafang BBS Series mid-drive eBike conversion kits, detailing models like M215, M315, M615, controller specifications, installation tools, maintenance, and safety precautions. Features Varstrom partnership.</p>
 <p>Bafang Mid-Drive Ebike Programming Guide: Enhance Performance Learn how to reprogram your Bafang mid-drive ebike system for improved usability and performance. This comprehensive guide covers necessary hardware, software, configuration tool instructions, and detailed explanations of all settings for Bafang BBS02 and BBSHD motors.</p>	

	<p>BAFANG DPC18 Smart Display User Manual</p> <p>Comprehensive user manual for the BAFANG DPC18 Smart Display, covering operation, settings, technical specifications, and error codes for e-bike systems.</p>
	<p>Bafang Bottom Bracket Measurement Guide for BBS02/BBSHD E-bike Mid-Drives</p> <p>Download and print this Bafang measurement guide to accurately determine your bicycle's bottom bracket diameter, shell thickness, and width. Essential for ensuring proper fitment of Bafang BBS02 (750W) and BBSHD (1000W) mid-drive motors. Includes printable template and instructions.</p>
	<p>Bicycle Bottom Bracket Measurement Guide</p> <p>A comprehensive guide to accurately measure your bicycle's bottom bracket diameter, shell thickness, and width using a printable gauge.</p>