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**HALLOMOTOR DPC18 CAN**

# HALLOMOTOR DPC18 CAN Canbus Color Display User Manual

Model: DPC18 CAN

## 1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the HALLOMOTOR DPC18 CAN Canbus Color Display. This display is designed for use with Bafang mid-drive electric bicycle motors that utilize the CAN protocol, including models such as M500, M600, M510, M560, M800, and M820. It offers a vibrant color screen for monitoring essential riding data and controlling motor settings. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your display.

## 2. Product Overview

The DPC18 CAN display enhances your electric bike experience by providing real-time information and control.

- **CAN Protocol Compatibility:** Specifically designed for Bafang M500, M600, M510, M560, M800, and M820 mid-drive motors using CAN protocol communication.
- **Color Display:** Features a vibrant color screen for clear visibility of speed, battery level, distance, and other motor settings.
- **Plug and Play Connection:** Equipped with a standard triangle plug for secure and straightforward integration with compatible motors.
- **USB Charging Port:** Includes a USB charging port for convenience.
- **Enhanced User Experience:** Serves as an upgrade or replacement for standard monochrome displays, offering more detailed information and control.

Image: The DPC18 CAN display unit, remote control, and mounting accessories included in the package.

## 3. Package Contents

Verify that all items are present in the package:

- DPC18 CAN Canbus Color Display Unit
- Remote Control Unit
- Mounting Bracket and Screws
- Bell

## 4. Setup and Installation

Follow these steps to properly install your DPC18 CAN display:

1. **Mounting the Display:**

Attach the display mounting bracket to your bicycle's handlebars. The DPC18 CAN display uses a stem mount type. Secure the display unit into the bracket. Ensure the display is positioned for optimal visibility and does not obstruct steering or other controls.

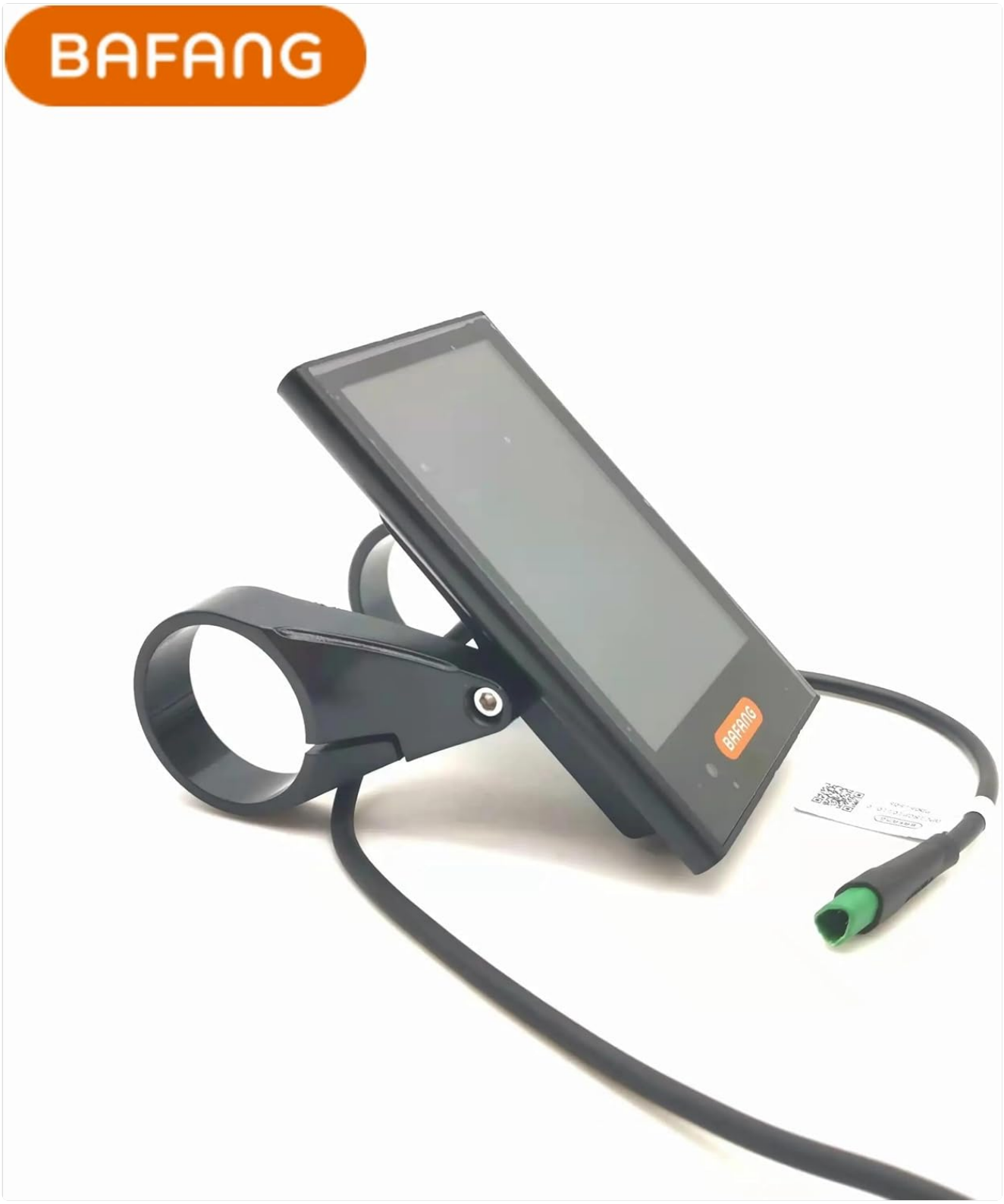


Image: Side view of the DPC18 CAN display showing its mounting position on bicycle handlebars.

2. **Connecting the Cables:**

   Locate the main cable from the DPC18 CAN display. Connect the 5-pin female triangle plug from the display to the corresponding male triangle plug on your Bafang mid-drive motor system. Ensure the connection is firm and secure. The display also features a USB charging port, visible from the rear of the unit.

Image: Rear view of the DPC18 CAN display, highlighting the cable connections and the integrated USB charging port.

3. **Mounting the Remote Control:**

   Mount the remote control unit on your handlebars in a position that is easily accessible with your thumb while riding. Connect its cable to the appropriate port on the main display cable or motor system, if applicable.

Image: Close-up of the DPC18 CAN remote control, showing the power, mode, and assist level buttons.

4. **Initial Power On:**

   After all connections are made, power on your e-bike system. The DPC18 CAN display should illuminate and show the initial startup screen. If it does not, refer to the troubleshooting section.

## 5. Operating Instructions

The DPC18 CAN display provides intuitive control over your e-bike's functions.

### 5.1. Basic Functions

- **Power On/Off:** Press and hold the power button on the remote control to turn the display on or off.
- **Assist Level Adjustment:** Use the '+' and '-' buttons on the remote control to increase or decrease the pedal assist level. The display supports PAS levels 0-9 (or 0-5-ECO depending on variant).
- **Information Display:** The color screen shows current speed, maximum speed, average speed, trip distance, total distance (odometer), battery charge level, and error codes.
- **Mode Button:** Press the 'i' (information) button to cycle through different display modes, showing various riding data.
- **Walk Assist:** Press and hold the '-' button to activate walk assist mode (if supported by your motor).
- **Headlight Control:** Press the headlight button (often integrated with the power button or a separate button) to turn your e-bike's lights on or off.

### 5.2. Settings Menu

Access the settings menu to customize display parameters and motor behavior. Specific access methods may vary;

typically, it involves a combination of button presses (e.g., holding 'i' and '+' simultaneously). The display itself may also feature touchscreen input for navigation.

- **Wheel Diameter:** Set the correct wheel diameter for accurate speed and distance readings.
- **Speed Unit:** Switch between kilometers per hour (km/h) and miles per hour (mph).
- **Battery Voltage:** Configure the battery voltage to ensure accurate battery level indication.
- **Backlight Brightness:** Adjust the display's backlight intensity.
- **Password Protection:** Set a password for display access (if available).
- **Error Code Display:** View any active error codes from the motor system.

*Refer to your Bafang motor's specific documentation for advanced motor parameter settings accessible via the display.*

## 6. Maintenance

Proper care ensures the longevity and optimal performance of your DPC18 CAN display.

- **Cleaning:** Wipe the display screen and body with a soft, damp cloth. Avoid using abrasive cleaners or solvents, which can damage the screen or casing.
- **Water Exposure:** The display is designed to be weather-resistant, but avoid submerging it in water or exposing it to high-pressure water jets. Ensure the USB port cover is securely closed when not in use.
- **Cable Inspection:** Periodically check all cables and connectors for signs of wear, damage, or loose connections. Ensure the triangle plug is always securely seated.
- **Storage:** When storing your e-bike for extended periods, especially in cold conditions, it is advisable to remove the battery and store it separately according to its manufacturer's instructions.

## 7. Troubleshooting

If you encounter issues with your DPC18 CAN display, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Display does not power on. | Loose cable connection, low battery, or system fault. | Check all cable connections, especially the main triangle plug. Ensure the e-bike battery is charged and properly connected. |
| Incorrect speed or distance readings. | Incorrect wheel diameter setting. | Access the settings menu and verify the wheel diameter setting matches your bicycle's wheel size. |
| Motor not responding to assist level changes. | Communication error, motor fault, or incorrect PAS setting. | Check motor connections. Ensure the display is set to a non-zero assist level. Restart the system. If the problem persists, consult your motor's manual or a qualified technician. |
| Display shows an error code. | System malfunction detected by the motor controller. | Note the error code and refer to your Bafang motor's manual for specific definitions and troubleshooting steps. |

If these steps do not resolve the issue, contact HALLOMOTOR customer support or a certified e-bike technician.

## 8. Specifications

| Feature | Detail |
|---|---|
| Model Name | DPC18 CAN |
| Display Type | Color Display |
| Connectivity Technology | CAN Protocol |
| Display Connector | 5 Pins Female (Triangle Plug) |
| Compatible Motors | Bafang M400 G330 G360 G510 M620 M420 M500 M600 M800 M560 M820 G332 G520 G521 G530 (CAN Protocol) |
| Human Interface Input | Touchscreen (Display), Buttons (Remote Control) |
| Mounting Type | Stem Mount |
| Material | Aluminum (Casing) |
| Included Components | Display, Remote Control, Mounting Hardware, Bell |
| USB Charging Port | Yes |

## 9. Warranty and Support

The HALLOMOTOR DPC18 CAN display comes with a 1-year warranty. For warranty claims or technical support, please contact your retailer or HALLOMOTOR customer service.
Additional protection plans may be available for purchase:

- **2-Year Protection Plan:** Available for a one-time payment.
- **Complete Protect:** A monthly subscription plan covering eligible past and future purchases.

For detailed information on protection plans, please refer to the terms and conditions provided at the time of purchase.

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