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BAFANG C020 Display

BAFANG C020 Ebike Display User Manual

Model: C020 Display | Brand: BAFANG

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BAFANG C020 Ebike Display. The C020 display is designed to provide essential riding data and control for your ebike, ensuring a safe and informed riding experience. Please read this manual thoroughly before using the product.



Image: The BAFANG C020 Ebike Display, showing its sleek design and how it appears when mounted on bicycle handlebars, displaying speed and trip information.

2. COMPATIBILITY

The BAFANG C020 Ebike Display is specifically designed for compatibility with certain BAFANG mid-drive motors and communication protocols. Ensuring correct compatibility is crucial for proper function.

- **Motor Compatibility:** This display is compatible with BAFANG BBS motor NEWEST (CAN version), M620, M600, M560, M510, and M420 mid-drive motors. It is NOT compatible with other motor types or older BBS motors using UART protocol.
- **Protocol:** The C020 display operates on the CAN protocol. It is NOT compatible with UART protocol systems.
- **Voltage:** Compatible with DC 36V, 43V, and 48V systems.
- **Connector:** Features a 5-pin male triangular connector. Please verify your bike's connector shape before purchase.

ATTENTION!!!



CAN PROTOCOL
5 Pin Male Triangular



UART PROTOCOL
5 Pin Female Round



Other BAFANG Mid Drive Motor

M200 M300 M400 M410 M420 M500
M560 M510 M600 M620 M800 M820



BAFANG BBS Motor NEWEST (CAN Version)

BAFANG BBS Series Motor (UART Version)



Other Brand Motor

H400



Other BAFANG Hub Motor



Image: A visual guide illustrating the compatibility of the C020 display with BAFANG CAN protocol motors (M620, M600, M560, M510, M420) and highlighting the required 5-pin male triangular connector, differentiating it from incompatible UART protocol and other motor types.

Connector from Display End



Image: A detailed view of the 5-pin male connector extending from the BAFANG C020 display, emphasizing its unique triangular shape for proper identification and compatibility verification.

3. SETUP AND INSTALLATION

Follow these steps to properly install your BAFANG C020 Ebike Display on your bicycle.

3.1 Package Contents

Upon opening the package, ensure all components are present:

- BAFANG C020 Display Unit
- Remote Control Unit (pre-connected via cable)
- Mounting Brackets for Display (with screws)
- Handlebar Reducers/Gaskets (2 pairs)
- Rubber Gasket for Remote Control

3.2 Mounting the Display

1. **Choose Location:** Select a suitable position on your handlebars for the display. The display is designed for handlebars with a diameter of 22 mm or 31.8 mm.
2. **Attach Brackets:** Place the display's mounting brackets around the handlebar. If your handlebar diameter is smaller, use the provided handlebar reducers (gaskets) to ensure a snug fit. The reducers allow fitting from a maximum of 3.7 cm down to 2 cm diameter.

3. **Secure Display:** Close the brackets and secure the display unit firmly using the supplied screws. Ensure the display is oriented correctly for optimal viewing.

3.3 Mounting the Remote Control

1. **Position Remote:** Position the remote control unit on your handlebar, typically near your thumb for easy access.
2. **Secure Remote:** Use the small circular bracket and screw to secure the remote control. A rubber gasket is provided to prevent slipping and rotation.
3. **Cable Management:** The remote control is pre-connected to the display via a cable. Route this cable neatly along your handlebars and frame, securing it with cable ties if necessary, to prevent interference with steering or other bike components.

Note: Please check the **size** of your bike **connector plug** before purchasing, otherwise it is not compatible.



Image: A technical diagram detailing the dimensions of the BAFANG C020 display (58.4mm width, 98.4mm length, 86mm screen diagonal) and its remote control, along with compatible handlebar diameters (22.2mm/31.8mm) for mounting.

4. OPERATING INSTRUCTIONS

The BAFANG C020 display provides clear, real-time information and control over your ebike's functions.

4.1 Display Overview

The 3.4-inch LCD screen offers high contrast for easy readability, even in bright conditions. Key information displayed includes:

- Battery Level Indicator
- Current Speed (km/h or mph)
- Pedal Assist System (PAS) Level
- Trip Distance (TRIP)
- Odometer (ODO)
- Maximum Speed (MAX)
- Average Speed (AVG)
- Riding Time (TIME)
- Auto Head Lamp Indicator
- Walk Assist Mode Indicator

Color LCD Screen

Ultra-high contrast ratio, clear data



Image: A clear depiction of the BAFANG C020's color LCD screen, highlighting the various data points and indicators such as current speed, battery level, pedal assist mode, trip distance, and other riding metrics.

4.2 Pedal Assist Levels (PAS)

The display allows you to select from 5 pedal assist levels, providing varying degrees of motor assistance:

- **0:** No assist
- **1 (ECO):** Minimal assist, maximum range
- **2 (TOUR):** Moderate assist for comfortable cruising
- **3 (SPORT):** Stronger assist for varied terrain
- **4 (SPORT+):** High assist for challenging conditions
- **5 (BOOST):** Maximum assist for steep climbs or quick acceleration

Use the buttons on the remote control to cycle through these assist levels. The remote control typically includes buttons for power on/off and navigation within the display's menu.

5 ECO/TOUR/SPORT/SPORT+/BOOST PEDAL ASSISTED LEVELS



Image: The BAFANG C020 display illustrating the five distinct pedal assist levels (ECO, TOUR, SPORT, SPORT+, BOOST) and the accompanying remote control unit used for adjusting these settings.

4.3 Menu Navigation and Settings

The display features a menu system for accessing additional settings and information. While specific navigation details may vary slightly, common functions include:

- Resetting trip data
- Changing units (km/h to mph)
- Adjusting backlight brightness
- Accessing diagnostic information

Refer to the on-screen prompts and use the remote control buttons to navigate the menu. Some advanced settings may require specific button combinations or sequences.

5. MAINTENANCE

Proper care and maintenance will extend the lifespan of your BAFANG C020 Ebike Display.

5.1 Cleaning

Wipe the display screen and housing with a soft, damp cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the screen or casing.

5.2 Water Resistance

The BAFANG C020 display has an **IP66 waterproof rating**. This means it is protected against powerful water jets and can withstand light to moderate rain, allowing for riding in various weather conditions. However, it is not designed for submersion in water. Avoid high-pressure washing directly onto the display.

Specifications



Image: The BAFANG C020 display shown with water droplets, visually representing its IP66 waterproof rating, indicating its resilience against water splashes and rain.

5.3 Storage

When not in use for extended periods, store your ebike and display in a dry, cool place, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your BAFANG C020 Ebike Display.

Problem	Possible Cause	Solution
Display does not power on.	Loose cable connection. Low or depleted ebike battery. Incompatible motor or protocol.	Check all cable connections, especially the 5-pin male connector, ensuring they are securely seated. Charge your ebike battery. Verify that your ebike motor is a compatible BAFANG CAN protocol model (M620, M600, M560, M510, M420).
Incorrect speed or distance readings.	Improper wheel circumference setting. Speed sensor issue.	Access the display menu to verify and adjust the wheel circumference setting according to your tire size. Check the speed sensor and its magnet for proper alignment and cleanliness.
Pedal assist not working or inconsistent.	PAS level set to 0. Loose motor or PAS sensor connection.	Ensure the PAS level is set to 1 or higher using the remote control. Inspect all motor and PAS sensor connections for security.
Display shows lower than expected motor power (specific to some setups).	Incompatibility with specific ebike controller/motor firmware.	While the display accurately reports power, some specific ebike models (e.g., certain Fischer pedelecs) may experience a perceived reduction in maximum power output when paired with this display compared to their original display. This is often due to the ebike's controller firmware rather than a display malfunction. Consult your ebike manufacturer or a qualified ebike technician for potential firmware updates or compatibility advice.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact BAFANG customer support or a certified ebike technician.

7. SPECIFICATIONS

Feature	Detail
Brand	BAFANG
Model Name	C020 Display
Screen Size	3.4 Inches
Display Type	Color LCD Screen
Communication Protocol	CAN Protocol (5-Pin Male Triangular Connector)
Compatible Motors	BAFANG BBS NEWEST (CAN version), M620, M600, M560, M510, M420 mid-drive motors
Voltage Compatibility	DC 36V / 43V / 48V
PAS Levels	0-5 (ECO/TOUR/SPORT/SPORT+/BOOST)
Waterproof Rating	IP66
Shell Material	ABS
Panel Material	Aluminum Silicon Glass
Item Weight	0.23 Kilograms
Mounting Type	Handlebar Mount (22mm / 31.8mm diameter)
Included Components	Display unit, remote control

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The BAFANG C020 Ebike Display comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and material flaws under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

8.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your BAFANG C020 Ebike Display, please contact BAFANG customer support through their official website or the retailer from whom you purchased the product. Please have your purchase receipt and product model information ready when contacting support. You can visit the official BAFANG store for more information:[BAFANG Store on Amazon](#)

Related Documents - C020 Display

	<p>Bafang E-Bike Drive Systems Workbook 2024</p> <p>Comprehensive guide to Bafang's e-bike drive systems, including motors, gear hubs, HMIs, batteries, sensors, controllers, and accessories. Features Bafang GO+ and Bafang IOT smart connectivity solutions, and the BESST Pro service tool.</p>
	<p>BAFANG 2021 Workbook: Comprehensive E-Bike Systems and Components Guide</p> <p>Explore BAFANG's 2021 Workbook detailing a wide range of e-bike drive systems, motors, batteries, controllers, and accessories for various applications including eMTB, eRoad, eCity, and eCargo.</p>
	<p>BAFANG M510 Mid Motor User Manual and Installation Guide</p> <p>Comprehensive user manual for the BAFANG M510 Mid Motor, covering specifications, installation procedures, maintenance, and troubleshooting for electric bicycles.</p>
	<p>BAFANG BBS01/BBS02 Mid-Drive E-bike Motor Installation Manual eMax eBikes</p> <p>Comprehensive installation manual for the BAFANG BBS01 and BBS02 mid-drive electric bike motor kits. Includes technical specifications, assembly steps, wiring diagrams, and warranty information from eMax eBikes.</p>
	<p>Bafang M510 Mid Drive Motor User Manual</p> <p>User manual for the Bafang M510 mid-drive motor, covering introduction, specifications, surface details, storage information, and maintenance guidelines.</p>



[Bafang E-Bike Drive Systems Workbook 2025](#)

Comprehensive workbook detailing Bafang's 2025 e-bike drive systems, including motors, HMIs, batteries, sensors, controllers, and accessories for various e-bike types like MTB, Road, City, Tour, Cargo, and Fat.