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BAFANG DZ41

BAFANG DZ41 Ebike Display User Manual

For BAFANG CAN Protocol Mid-Drive Motors (M620, M600, M560, M510, M420)

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your BAFANG DZ41 Ebike Display. Please read this manual thoroughly before using the product to ensure proper function and safety. The DZ41 display is designed for electric bicycles equipped with specific BAFANG CAN protocol mid-drive motors.

Image 1.1: The BAFANG DZ41 Ebike Display, illustrating its compact design and clear digital interface for speed, pedal assist level, and

battery status.

2. Compatibility

The BAFANG DZ41 display is specifically designed for use with BAFANG CAN protocol mid-drive motors. It is compatible with the following BAFANG motor models:

- BAFANG BBS NEWEST (CAN Version)
- BAFANG M620
- BAFANG M600
- BAFANG M560
- BAFANG M510
- BAFANG M420

Important: This display is **not** compatible with BAFANG UART protocol motors or other brands' motors. Please verify your motor's protocol and connector type before installation.

Image 2.1: A visual guide illustrating the compatibility of the DZ41 display with various BAFANG mid-drive motors (CAN protocol) and highlighting incompatibility with UART protocol and other motor types. It also shows the distinct 5-pin male triangular CAN connector versus a 5-pin female round UART connector.

The display supports DC 24V, 36V, and 48V systems.

3. Setup and Installation

3.1. Pre-Installation Check

Before beginning installation, ensure your ebike's motor uses the CAN protocol and has a compatible 5-pin male triangular connector. The DZ41 display features a 5-pin male connector.

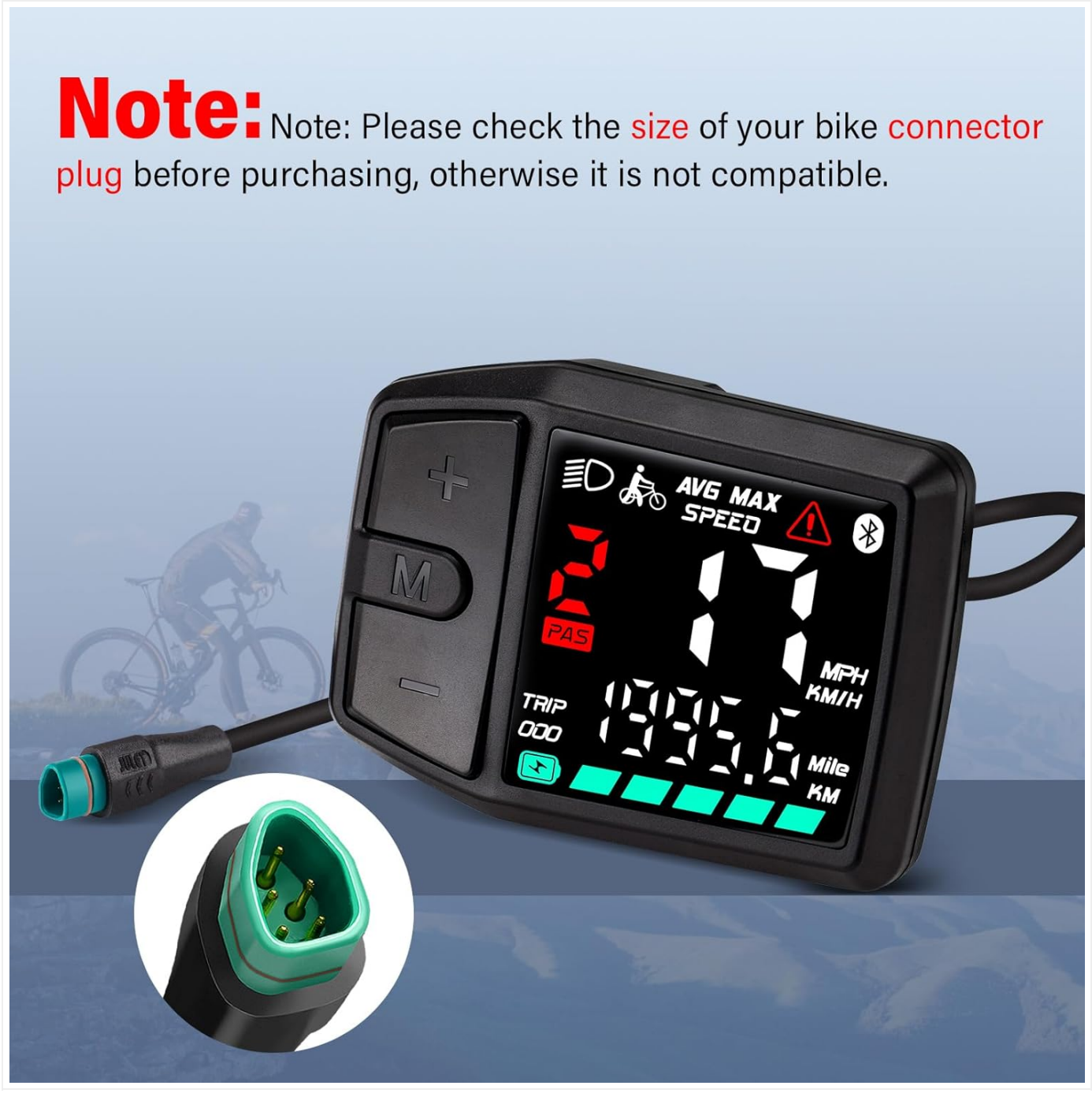


Image 3.1: A detailed view of the DZ41 display's 5-pin male triangular connector, emphasizing the importance of checking your bike's connector plug for compatibility before purchase.

3.2. Mounting the Display

The BAFANG DZ41 display is designed to be mounted on handlebars with a diameter of 22mm. Follow these steps:

1. Loosen the clamp screw on the display's mounting bracket.
2. Position the display on your handlebar in a location that provides clear visibility and easy access to the buttons.
3. Tighten the clamp screw securely, ensuring the display is stable and does not rotate. Do not overtighten.

Image 3.2: Technical drawing detailing the physical dimensions of the DZ41 display (66.5mm x 49.3mm) and its handlebar clamp (22.2mm diameter), along with cable lengths (24cm total, 21cm to connector).

3.3. Electrical Connection

Connect the 5-pin male triangular connector from the DZ41 display to the corresponding 5-pin female triangular connector on your ebike's wiring harness. Ensure the connection is firm and secure.

Image 3.3: A clear view of the 5-pin male connector extending from the DZ41 display, indicating its readiness for connection to the ebike's system.

4. Operating Instructions

4.1. Display Overview

The DZ41 display provides essential riding information on its 1.8-inch screen. Key indicators include:

- **Speed:** Current riding speed.
- **PAS Level:** Pedal Assist System level (0-9).
- **Battery Level:** Remaining battery charge.
- **TRIP:** Distance traveled for the current trip.
- **ODO:** Total odometer reading.
- **AVG MAX SPEED:** Average and maximum speed indicators.
- **Headlight Indicator:** Shows when headlights are active.
- **Warning Indicator:** Alerts to system issues.
- **Bluetooth Indicator:** (Note: This display is not Bluetooth-enabled despite the icon. Refer to compatibility section.)
- **Unit:** Speed unit (MPH/KMH).

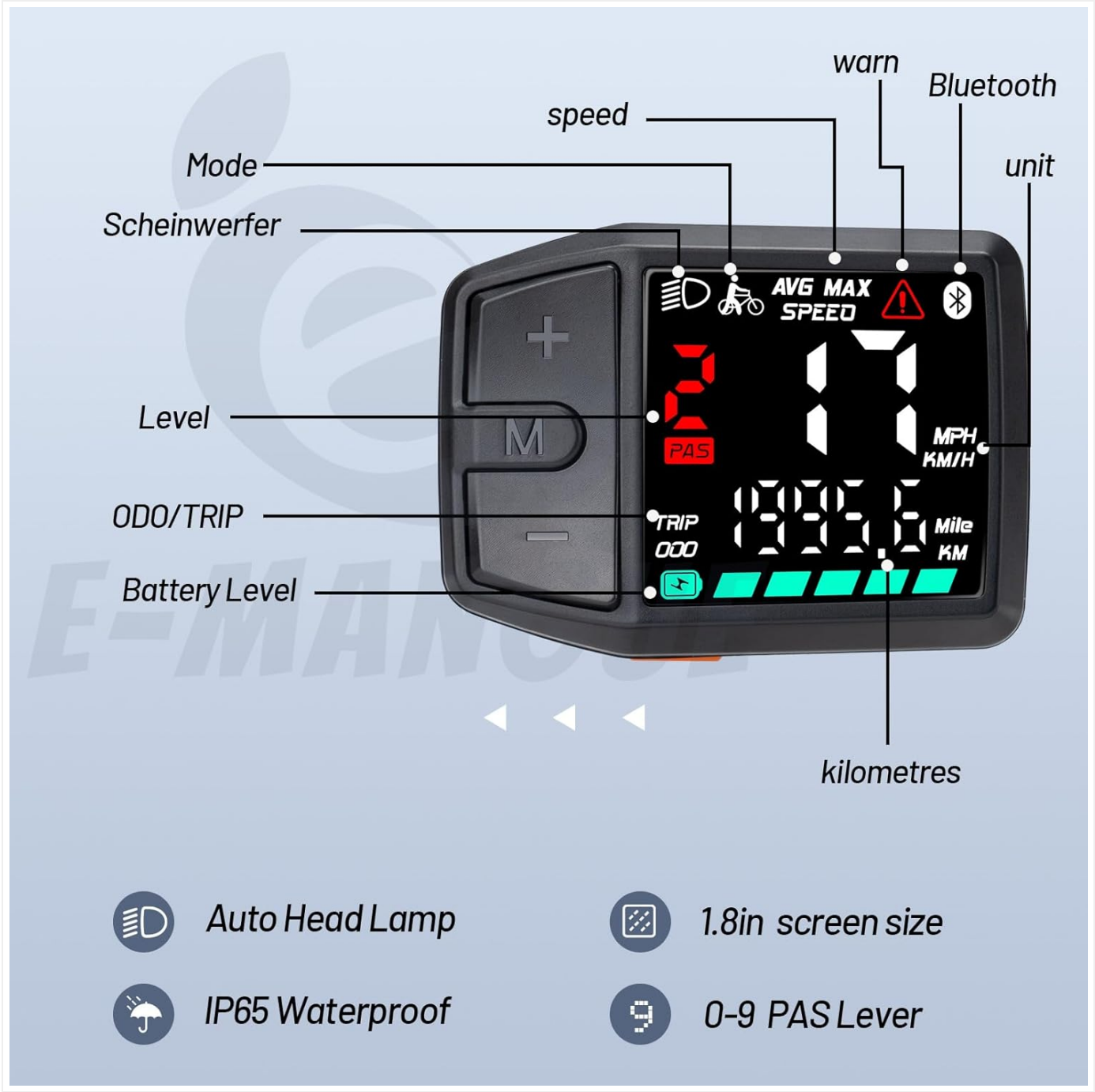


Image 4.1: A comprehensive diagram labeling each element of the DZ41 display, including Mode, Headlight, Level, ODO/TRIP, Battery Level, Speed, Warning, Bluetooth icon, and Unit (MPH/KMH).

4.2. Button Functions

The display features three buttons: '+', '-', and 'M' (Mode).

- **Power On/Off:** Press and hold the 'M' button to power the display on or off.
- **Adjust PAS Level:** Use the '+' and '-' buttons to increase or decrease the pedal assist level (0-9). Level 0 provides no motor assistance.
- **Cycle Display Modes:** Press the 'M' button briefly to cycle through different display information, such as TRIP distance and ODO (total distance).
- **Headlight Control:** Double-press the '+' button to turn the headlights on or off.

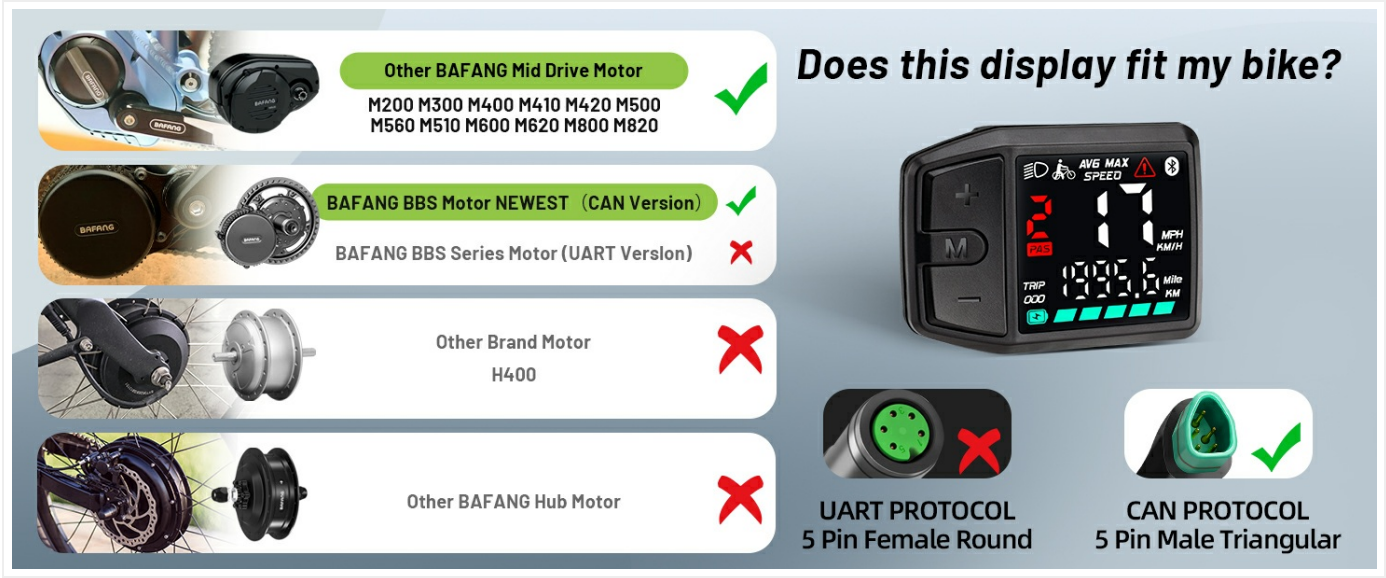


Image 4.2: The DZ41 display mounted on a handlebar, showing a hand interacting with the '+' and 'M' buttons, illustrating the simple and intuitive control interface.

Image 4.3: The DZ41 display clearly showing "PAS 9", indicating the highest pedal assist level, demonstrating the range of assistance available.

5. Maintenance and Care

5.1. Cleaning

Clean the display regularly with a soft, damp cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the screen or casing. Ensure the display is off before cleaning.

5.2. Water Resistance

The DZ41 display has an IP65 waterproof rating, meaning it is protected against dust ingress and low-pressure water jets from any direction. It can function reliably in light to moderate rain. However, it is not designed for submersion in water or exposure to high-pressure water streams.

Image 5.1: A visual representation of the DZ41 display's IP65 waterproof capability, showing it resisting water splashes.

5.3. Material Durability

The display is constructed from durable ABS plastic and metal components, designed for longevity and resilience in various riding conditions.

6. Troubleshooting

6.1. Display Not Powering On

- **Check Connections:** Ensure the 5-pin connector is securely plugged into the ebike's wiring harness.
- **Battery Level:** Verify that your ebike's battery has sufficient charge.
- **Power Button:** Confirm you are pressing and holding the 'M' button for a few seconds to power on.

6.2. Incorrect Readings or No Motor Assistance

- **Compatibility:** Re-verify that your motor is a BAFANG CAN protocol mid-drive motor. The display will not function with UART protocol motors or other brands.
- **Sensor Issues:** If speed or PAS levels are incorrect, check for any loose or damaged motor sensors.
- **Error Codes:** If a warning indicator is present, consult your ebike's motor manual for specific error code interpretations.

6.3. Display Screen Issues

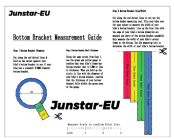
- **Visibility:** The display features high brightness for outdoor visibility. If visibility is poor, ensure the screen is clean and free from glare.
- **Damage:** If the screen is physically damaged or shows persistent anomalies, contact customer support.

7. Specifications

Feature	Detail
Model Number	DZ41
Compatibility	BAFANG CAN Protocol Mid-Drive Motors (M620, M600, M560, M510, M420, BBS NEWEST CAN Version)

Feature	Detail
Connector Type	5-pin Male Triangular
Voltage	DC 24V / 36V / 48V
Display Type	LCD, LED
Screen Size	1.8 inches (22 mm)
PAS Levels	0-3 / 0-5 / 0-9 (Configurable)
Waterproof Rating	IP65
Material	ABS Plastic, Metal
Mounting Diameter	22 mm
Dimensions (Display)	Approx. 66.5mm x 49.3mm
Weight	200 grams
Package Contents	1x BAFANG DZ41 Display

Related Documents - DZ41

	Bafang E-Bike Drive Systems Workbook 2024 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.
	BAFANG 2021 Workbook: Comprehensive E-Bike Systems and Components Guide 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.
	BAFANG M510 Mid Motor User Manual and Installation Guide Comprehensive user manual for the BAFANG M510 Mid Motor, covering specifications, installation procedures, maintenance, and troubleshooting for electric bicycles.
	Bafang Electric Bike Conversion Kit: Jumbo Shark & G80 Battery Mount Modification Guide This guide provides printable templates and instructions for modifying battery mounts for Bafang electric bike conversion kits, specifically for Jumbo Shark mounts used with G80 and other compatible Hailong batteries.

	[BAFANG DP C10.UART E-bike Display User Manual and Specifications] Comprehensive user manual for the BAFANG DP C10.UART display unit, covering its specifications, features, button operations, display information, settings configuration, and error code troubleshooting for electric bicycles.
	[BAFANG M560 (MM G5300.500/750.C) Dealer Manual] Comprehensive dealer manual for the BAFANG M560 e-bike drive unit, covering installation, operation, and maintenance for models MM G5300.500 and MM G5300.750.C. Includes technical specifications and safety guidelines.