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Mcezdy M5-5-Pin

Mcezdy M5-5-Pin Ebike Display User Manual

Model: M5-5-Pin | Brand: Mcezdy

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Mcezdy M5-5-Pin Ebike Display. Designed to enhance your cycling experience, this advanced LCD display offers real-time data and control over your electric bicycle's functions. Please read this manual thoroughly before use to ensure proper functionality and safety.

2. Safety Information

- Always ensure the display is securely mounted and all connections are firm before riding.
- Do not attempt to open or modify the display unit, as this may void the warranty and cause damage.
- Avoid exposing the display to extreme temperatures or direct sunlight for prolonged periods.
- Regularly check the display for any signs of damage or wear. Replace if necessary.
- Ensure your ebike's controller is compatible with the UART No. 2 protocol and the 5-Pin connector of this M5-5-Pin model. Incompatibility can lead to malfunction.

3. Product Overview

The Mcezdy M5-5-Pin Ebike Display is a robust cycling computer designed for durability and comprehensive data display. It features an aluminum alloy frame, tempered glass screen, and a user-friendly interface.

3.1 Key Features

- **Real-time Data Display:** Provides immediate access to speed, battery level, PAS level, and mileage.
- **Durable Construction:** Crafted with a rugged ABS and PC housing, aluminum alloy frame, and tempered glass screen for enhanced longevity.
- **Wide Voltage Compatibility:** Supports 24V, 36V, 48V, and 60V ebike battery systems.
- **Personalized Control:** Includes features like walk-assist mode, cruise control, real-time trip tracking, total

mileage, voltage display, and adjustable bike parameters (wheel diameter, speed limits).

- **IPX65 Waterproof Rating:** Offers protection against water splashes, suitable for various weather conditions.

3.2 Components

Figure 1: Mcezdy M5-5-Pin Ebike Display. This image shows the front view of the Mcezdy M5-5-Pin Ebike Display, highlighting its clear LCD screen and compact design.

The M5-5-Pin Ebike Display package includes:

- Mcezdy M5-5-Pin LCD Display Unit
- Control Keypad
- Mounting Bracket
- 5-Pin Waterproof Cable (JL-F-Z509AG)
- User's Manual (this document)
- Fault Code Description (separate document or section)

4. Compatibility

Important: This M5 ebike display operates using the UART No. 2 protocol. It is only compatible with ebike controllers that utilize the same UART No. 2 protocol. Additionally, ensure your ebike controller is compatible with the 5-Pin connector of this M5-5-Pin model.

Figure 2: Compatibility Check. This image emphasizes the critical need to verify your ebike's compatibility with the UART No. 2 Protocol before installing the M5 display.

To determine your ebike's communication protocol:

1. Consult your ebike's user manual or technical documentation.
2. Examine your current ebike display for protocol information.
3. Contact your ebike manufacturer for specific details regarding communication protocols.

Figure 3: Connector Types. This image illustrates various connector types, highlighting the importance of selecting the correct 5-Pin connector for the M5-5-Pin model to ensure proper connection with your ebike's system.

5. Setup and Installation

The Mcezdy M5-5-Pin Ebike Display is designed for straightforward installation. Follow these steps carefully:

5.1 Mounting the Display

1. Identify a suitable position on your ebike's handlebar. The flexible bracket accommodates handlebar sizes of 22.2mm, 25.4mm, and 31.8mm.
2. Loosen the screws on the mounting bracket.
3. Place the bracket around the handlebar and tighten the screws until the display is securely fixed and does not rotate freely.
4. Adjust the angle of the display for optimal viewing.

Figure 4: Handlebar Compatibility. This image demonstrates the display mounted on a handlebar, illustrating its compatibility with various handlebar diameters (22.2mm, 25.4mm, 31.8mm) for a secure fit.

5.2 Connecting the Cables

The display comes with a 5-pin waterproof cable (JL-F-Z509AG) with an exposed cable length of 1800mm.

1. Locate the corresponding 5-pin connector on your ebike's controller or wiring harness.
2. Align the pins carefully and firmly push the display's connector into the ebike's connector until it clicks into place. Ensure a secure, waterproof connection.
3. Route the cable neatly along your ebike frame, securing it with cable ties to prevent snagging or damage.

Figure 5: 5-Pin Waterproof Connector. A close-up view of the 5-pin waterproof connector, illustrating the connection point for the ebike display.

6. Operating Instructions

The Mcezdy M5-5-Pin display provides various functions accessible via its integrated keypad.

6.1 Power On/Off

- To power on the display, press and hold the power button on the keypad for a few seconds.
- To power off, press and hold the power button again until the display turns off.

Figure 6: Advanced LCD Display and Keypad. This image shows the advanced color LCD display alongside its dedicated keypad, designed for easy adjustment of display settings and control of ebike functions.

6.2 Display Information

The display provides the following information:

- **Speed:** Current riding speed.
- **Energy Bar/Battery Level:** Indicates remaining battery charge.
- **PAS (Pedal Assist System) Level:** Shows the current level of motor assistance.
- **Voltage (VOL):** Displays the current battery voltage.
- **ODO (Odometer):** Total accumulated mileage.
- **Trip Distance:** Distance covered in the current ride.
- **Headlight Indicator:** Shows if the ebike's headlight is active.

Figure 7: Key Metrics Display. This image highlights the various metrics displayed on the M5 screen, including battery level, speed, PAS level, and odometer, providing comprehensive ride information.

6.3 Adjusting Settings and Modes

Use the buttons on the keypad to navigate and adjust settings:

- **Changing PAS Level:** Press the **+** or **-** buttons to increase or decrease the pedal assist level.

- **Walk-Assist Mode:** Typically activated by holding down the **-** button. This provides low-speed assistance for walking the ebike.
- **Cruise Control:** Refer to your ebike's controller manual for specific activation of cruise control, often initiated by holding a specific button on the display or keypad.
- **Accessing Parameter Settings:** To modify advanced parameters such as wheel diameter or speed limits, a specific sequence of button presses (e.g., holding **+** and **-** simultaneously) is usually required. Consult the "Fault Code Description" or a more detailed technical manual for your ebike's controller for exact procedures.

7. Maintenance

Proper maintenance ensures the longevity and optimal performance of your Mcezdy M5-5-Pin Ebike Display.

- **Cleaning:** Wipe the display screen and body with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the screen or housing.
- **Inspection:** Periodically check all cable connections for tightness and signs of wear or corrosion. Ensure the mounting bracket remains secure.
- **Water Exposure:** While the display is IPX65 waterproof, avoid submerging it in water or exposing it to high-pressure water jets. Dry any moisture promptly.
- **Storage:** When not in use for extended periods, store the ebike and display in a cool, dry place away from direct sunlight.

Figure 8: IP65 Waterproofing. This image illustrates the display's IP65 waterproof rating, indicating its resistance to water splashes and suitability for various outdoor conditions.

8. Troubleshooting

If you encounter issues with your Mcezdy M5-5-Pin Ebike Display, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display does not power on.	Loose cable connection. Ebike battery is dead or low. Incompatible protocol. Damaged display or cable.	Check all connections, especially the 5-pin connector, ensuring they are secure. Charge your ebike battery. Verify your ebike controller uses UART No. 2 protocol. Contact customer support if damage is suspected.
Display shows incorrect speed/mileage.	Incorrect wheel diameter setting. Speed sensor malfunction.	Access parameter settings to adjust wheel diameter. Inspect the speed sensor for damage or misalignment.
Ebike motor does not respond.	Incompatible protocol. Loose connection to controller. Controller malfunction.	Confirm UART No. 2 protocol compatibility. Ensure all connections are secure. Consult your ebike's controller manual or a qualified technician.

For specific fault codes, please refer to the included "Fault Code Description" document or contact Mcezdy customer support.

9. Specifications

Feature	Detail
Brand	Mcezdy
Model Name	M5-5-Pin
Display Type	LCD
Connectivity Technology	UART No. 2 (Wired)
Sensor Type	Electric Speed Sensor
Operating Voltage	DC 24V, 36V, 48V, 60V
International Protection Rating	IPX65
Mounting Type	Handlebar Mount (22.2mm, 25.4mm, 31.8mm)
Human Interface Input	Buttons

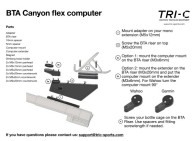
Feature	Detail
Material	ABS, PC, Aluminum Alloy Frame, Tempered Glass
Cable Length Exposed	1800mm (5-pin waterproof cable)
Item Package Dimensions	5 x 4.02 x 3.35 inches
Package Weight	0.21 Kilograms

Figure 9: Detailed Product Specifications. This image provides a visual summary of the display's dimensions, cable length, compatible models, and operating voltage.

10. Warranty and Support

The Mcezdy M5-5-Pin Ebike Display comes with a**1-Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
For warranty claims, technical support, or any questions not covered in this manual, please contact Mcezdy customer service through the retailer where the product was purchased or visit the official Mcezdy website.
Please retain your proof of purchase for warranty validation.

Related Documents - M5-5-Pin

	LCD-M5 Hand Control Panel Operation Instruction Manual This manual provides operation instructions for the LCD-M5 Hand Control Panel, covering its features, functions, settings, and troubleshooting for e-bike systems.
	KETELES M5 LCD Display User Manual A comprehensive guide to the KETELES M5 LCD display for electric bikes. This manual covers exterior parameters, operating voltage, functions, display details, error codes, settings, and key operations. Learn how to configure and use your M5 display effectively.
	Mark-10 Series 5 Digital Force Gauges Quick Start Guide Quick start guide for Mark-10 Series 5 Digital Force Gauges, covering setup, included items, power, and software downloads. Learn about force and torque measurement.
	BS CONNECTOR M12 Female/Male Back Mount Socket (Solder, Screw M16*1.5/PG9) Technical Specifications Comprehensive technical details for BS CONNECTOR M12 Female and Male Back Mount Sockets, covering product parameters, electrical specifications, dimensional drawings, and wire color definitions for M16*1.5/PG9 connectors.
	AOSTIRMOTOR G350 Ebike Manual: Display, Maintenance & FAQ Comprehensive manual for the AOSTIRMOTOR G350 electric bike, covering M5 LCD display functions, settings, motor maintenance, and frequently asked questions. Learn about speed limits, PAS settings, error codes, and more.
	TRI-C BTA Flex Computer and Light Mounts: Assembly Guide Detailed assembly instructions and parts list for TRI-C BTA Canyon flex computer, BTA Canyon flex light, and BTA Flex Set Slim mounts. Includes diagrams and specifications.