

## Mcezdy PG

# Mcezdy Ebike Display UART Protocol Recognizer & Programmer Set Instruction Manual

Model: PG

## INTRODUCTION

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This manual provides detailed instructions for the Mcezdy Ebike Display UART Protocol Recognizer & Programmer Set, Model PG. It covers product components, setup procedures, operational guidelines for protocol recognition and programming, troubleshooting common issues, and product specifications. Please read this manual thoroughly before using the device to ensure proper operation and to prevent damage.

## PRODUCT COMPONENTS

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The Mcezdy Ebike Display UART Protocol Recognizer & Programmer Set includes the following items:

- Recognizer Unit
- Programmer Unit
- Three-in-one adapter cable: SM6PIN, 5PIN, 6PIN
- Instrument pair wiring (SM-5PIN)
- USB cable (for power supply)



Image: Overview of the Mcezdý Ebike Display UART Protocol Recognizer & Programmer Set, showing the recognizer, programmer, various adapter cables, and USB power cable.



## Electric bicycle protocol programming kit:

1. Recognizer
2. programmer
3. Three-in-one adapter cable: SM6PIN、5PIN、6PIN
4. Instrument pair wiring (SM-5PIN)
5. USB cable (power supply)

Image: A visual representation of the kit's contents, highlighting the recognizer, programmer, three-in-one adapter cable, instrument pair wiring, and USB cable.

## SETUP AND INITIAL USE

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### 1. Protocol Recognition

The recognizer unit is used to identify the UART communication protocol of your e-bike display. It supports Protocol 2, 5s protocol, J protocol, and KDS protocol.

1. Connect the identifier (recognizer unit) to the instrument interface of your e-bike.
2. Tap the power switch on your e-bike.
3. The display on the recognizer will show the identified protocol information.

# Identification Protocol



Image: Diagram illustrating the connection of the recognizer to an e-bike display for protocol identification, showing the steps and supported UART protocols.

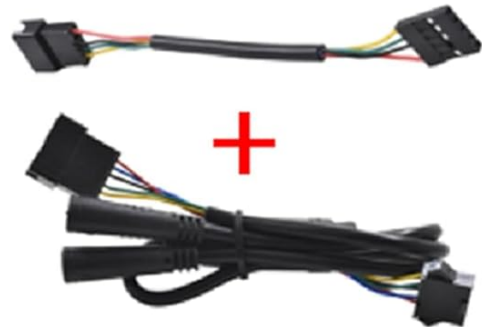
## 2. Programmer Setup

The programmer unit is used to change or update the communication protocol of compatible e-bike displays. It supports Protocol 2, 5s protocol, J protocol, and KDS protocol.

Applicable instruments include H6C-2, H6C, M5C-2, M5, M6C, M6H, M7C-2, P3C, P3H, P5C.

# Programmer Protocol

## Charging



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**Programming UART :**  
Protocol 2, 5s protocol,  
Jprotocol, KDS protocol

The applicable instruments include  
H6C-2, H6C, M5C-2, M5, M6C,  
M6H, M7C-2, P3C, P3H , P5C

For specific operations, please refer to the details



connect

Image: Visual guide for connecting the programmer unit and adapter cables to an e-bike display for protocol programming, listing compatible display models.

## OPERATING INSTRUCTIONS FOR THE PROGRAMMER

1. Connect the plug wires of the instrument (e-bike display) to the programmer.
2. Connect the USB cable to the programmer for power supply.
3. Press the **Model** key on the programmer to select the corresponding instrument model.
4. Press the **Software** key to select the required updated protocol software.
5. Press and hold the **plus key** and the **power key** on the instrument simultaneously. Then, click the power key of the instrument once to enter the flashing mode. The display will show a flashing indicator.
6. While the instrument is in flashing mode, press the **Ready** key on the programmer within 10 seconds to bind the programmer to the instrument in the upgrade state. If the Ready key is not pressed within 10 seconds, the instrument will automatically exit flashing mode.
7. Press the **Update** key to update the internal software of the instrument. The update process will take approximately 35 seconds. During this time, do not disconnect the device.

8. After the update is completed, the instrument will automatically shut down.

## Instructions for using the programmer



- ① **Connect the plug wires of the instrument**
- ② **Connect the USB cable to power on the PG burner**
- ③ **Press the Model key to switch to the corresponding instrument model**
- ④ **Press the Software key to switch to the required updated protocol software**
- ⑤ **Press and hold the plus key and the power key on the instrument simultaneously, then click the power key of the instrument once to enter the flashing mode, and the display will appear on the instrument. Then press the "Ready" key on the PG burner to bind the PG burner to the instrument in the upgrade state. After the instrument enters the flashing mode, you need to press the Ready key on the PG burner within 10 seconds; otherwise, the instrument will automatically exit the flashing mode.**
- ⑥ **Press the Update key to update the internal software of the instrument**  
**On this interface, you just need to wait. The update will be completed in about 35 seconds. After the update is completed, the instrument will automatically shut down.**

Image: Step-by-step guide on the programmer's display, detailing the sequence of button presses and actions required for successful protocol programming.

# Programmer Operation Process

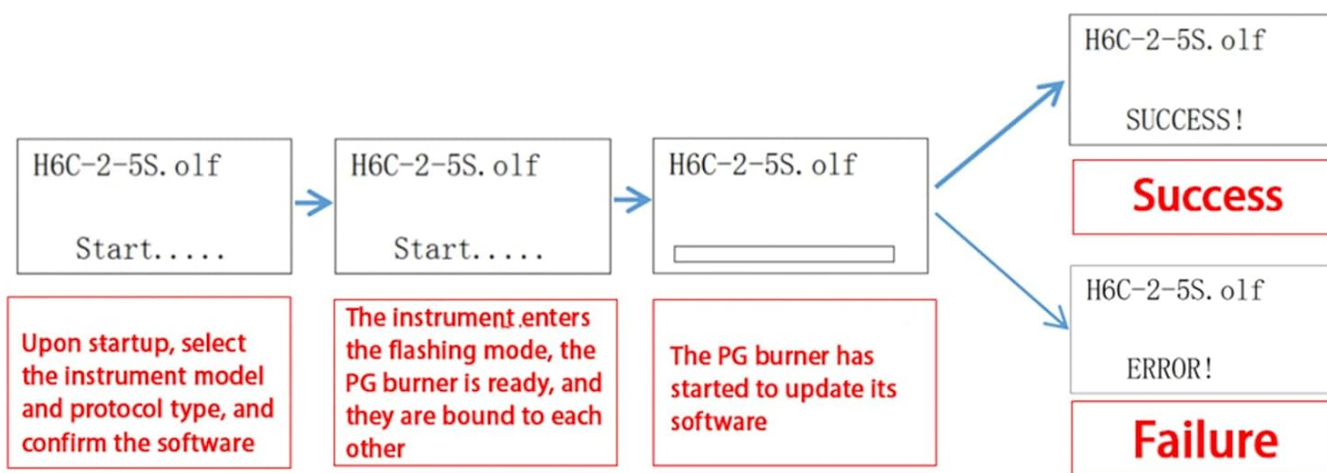
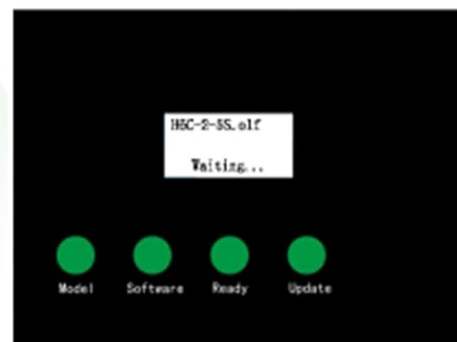


Image: Flowchart illustrating the programmer operation process, from selecting the model and software to the update success or failure outcomes.

## MAINTENANCE

- Keep the device clean and dry. Avoid exposure to moisture or extreme temperatures.
- Store the components in a safe place to prevent physical damage.
- Do not attempt to disassemble or repair the device yourself. Refer to qualified personnel for service.
- Use only the provided cables and accessories.

## TROUBLESHOOTING

### Common Issues and Solutions:

- **Issue:** Protocol not recognized by the identifier.

**Solution:** Ensure the identifier is correctly connected to the e-bike instrument interface and the e-bike is powered on. Verify that the e-bike's protocol is one of the supported types (Protocol 2, 5s protocol, J protocol, KDS protocol).

- **Issue:** Programmer fails to bind or update.

**Solution:**

- Ensure all cables are securely connected.
- Confirm the e-bike instrument is in flashing mode (step 5 of operating instructions).
- Press the **Ready** key on the programmer within the 10-second window after the instrument enters flashing mode.

- Verify that the instrument model is compatible with the programmer (H6C-2, H6C, M5C-2, M5, M6C, M6H, M7C-2, P3C, P3H, P5C).
- Ensure the correct software protocol is selected on the programmer.
- **Issue:** Error Code E10 (PG).

**Solution:** While the manual mentions troubleshooting Error Code E10, specific details for this error are not provided in the product description. Generally, error codes indicate a communication issue or an unsupported configuration. Recheck all connections, ensure compatibility, and retry the process. If the issue persists, contact customer support.

## SPECIFICATIONS

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Feature	Detail
Brand	Mcezdy
Model Name	PG
Color	Black
Material	Plastic
Display Type	LCD
Recognizer Supported UART Protocols	Protocol 2, 5s protocol, J protocol, KDS protocol
Programmer Supported UART Protocols	Protocol 2, 5s protocol, J protocol, KDS protocol
Applicable Instruments (Programmer)	H6C-2, H6C, M5C-2, M5, M6C, M6H, M7C-2, P3C, P3H, P5C
Included Components	Recognizer, Programmer, 3-in-1 adapter cable (SM6PIN, 5PIN, 6PIN), Instrument pair wiring (SM-5PIN), USB cable (power supply)
Item Package Dimensions	1 x 1 x 1 inches
Package Weight	1.6 ounces

## WARRANTY AND SUPPORT

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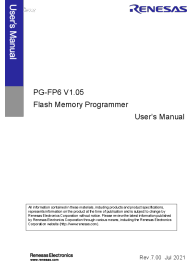




### Warranty Information:

The Mcezdy Ebike Display UART Protocol Recognizer & Programmer Set comes with a **1-Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or improper installation.

### Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Mcezdy customer support. Refer to the product packaging or the official Mcezdy website for the most current contact information. You can also visit the [Mcezdy Store on Amazon](#) for additional product information and support resources.

## Related Documents - PG

	<p><a href="#">Renesas PG-FP6 V1.05 Flash Memory Programmer User's Manual</a></p> <p>User's Manual for the Renesas PG-FP6 Flash Memory Programmer. This guide provides comprehensive instructions on installation, operation, commands, and safety precautions for programming Renesas MCUs, supporting development and mass production environments.</p>
	<p><a href="#">Casper SC Series Air Conditioner Error Code Guide</a></p> <p>A comprehensive guide to understanding and troubleshooting error codes for Casper SC Series air conditioning units, detailing common error indicators, their causes, and step-by-step repair procedures for issues like sensor malfunctions, motor errors, and system protections.</p>
	<p><a href="#">PG RTSP: Real-Time Streaming Protocol Explained</a></p> <p>Learn about the PG RTSP protocol, its description, and how to format Real-time monitoring code stream URLs with examples for IP cameras.</p>
	<p><a href="#">Power HD Servo Program Box: Usage Instructions and Parameter Guide</a></p> <p>Comprehensive guide to using the Power HD servo program box, including connection, setup, parameter adjustment, and troubleshooting for programmable servos. Learn to optimize your RC servo performance with detailed instructions.</p>
	<p><a href="#">Ambiq Apollo4 Family SoC Programmer's Guide - Technical Manual</a></p> <p>Official programmer's guide for Ambiq's Apollo4 family of ultra-low power SoCs (Apollo4, Apollo4 Blue, Apollo4 Plus, Apollo4 Blue Plus). This technical manual details SoC architecture, memory, clocks, peripherals, power management, and programming interfaces for embedded system developers.</p>



Understanding and Performing MIPI®  
D-PHY Physical Layer, CSI and DSI  
Protocol Layer Testing

Application Note

TEKTRONIX



[Understanding and Performing MIPI D-PHY, CSI, and DSI Protocol Layer Testing](#)

This application note from Tektronix details the testing methodologies for MIPI D-PHY physical layer, CSI-2, and DSI protocol layers, essential for modern mobile device development. It covers electrical challenges, signal integrity, oscilloscope selection, and automated testing solutions, aiding engineers in validating high-speed mobile interfaces.