

Pomya Pomyazgfc28bn46

G51 Electric Bike LCD Display User Manual

Model: G51 (Pomyazgfc28bn46)

1. INTRODUCTION

The Pomya G51 Electric Bike LCD Display is a versatile and essential component for electric bicycles and scooters, designed to provide clear, real-time data for an enhanced riding experience. This display serves as a speedometer, controller interface, and information panel, making it easier to monitor your vehicle's status. Constructed from durable ABS material, the G51 display is lightweight yet robust, ensuring reliable performance across a wide temperature range. Its intuitive interface and 5-pin connector facilitate straightforward installation and operation.



Figure 1.1: Front view of the G51 Electric Bike LCD Display. This image shows the display screen with numerical readouts for current speed (CUR), odometer (ODO), and graphical indicators for power and assist level. Three physical buttons (+, M, -) are visible on the left side of the unit.

2. SPECIFICATIONS

Feature	Detail
Item Type	Electric Bike LCD Display
Material	ABS
Model Name	Pomyazgfc28bn46 (G51)
Connector Type	5 Pin Connector
Operating Temperature	-20°C to 60°C
Compatible Handlebar Diameter	2.2 cm
Package Weight	84 Grams
Dimensions (L x W x H)	3.94 x 2.36 x 2.36 inches

3. SETUP AND INSTALLATION

The G51 LCD Display is designed for quick and easy installation on most electric bicycles and scooters with 2.2cm handlebars. Follow these steps for proper setup:

- Mounting the Display:** Securely attach the display unit to your electric bike's 2.2cm handlebar using the integrated clamp. Ensure it is positioned for optimal visibility and accessibility while riding.
- Connecting the 5-Pin Cable:** Locate the 5-pin connector cable extending from the display unit. Connect this cable to the corresponding port on your electric bike's controller system. Ensure the connection is firm and secure.
- Wiring Diagram (5-Pin Connector):**
 - Blue wire:** Ignition lock
 - Red wire:** Power positive (+)
 - Green wire:** Communicating receive (RX)
 - Black wire:** Power negative (-)
 - Yellow wire:** Communicating transmit (TX)

***Note:** Always ensure power is off before making any electrical connections. Incorrect wiring can damage the display or the bike's electrical system.*



Figure 3.1: Side view of the G51 LCD Display, highlighting the integrated mounting clamp and the 5-pin connector cable. The green-tipped connector is clearly visible, ready for connection to the bike's electrical system.

4. OPERATING INSTRUCTIONS

Once installed and connected, the G51 LCD Display provides essential riding information and control. Familiarize yourself with the display layout and button functions:

4.1 Display Layout



Figure 4.1: Close-up view of the G51 LCD Display screen. The screen clearly shows "CUR" (current speed) at 28.9 Km/h, "ODO" (odometer) at 00000 Km, a battery "POWER" indicator, and an "ASSIST" level bar graph. The "G51" model designation is visible in the top right corner.

- **CUR (Current Speed):** Displays your real-time riding speed, typically in Km/h.
- **ODO (Odometer):** Shows the total accumulated distance traveled by the vehicle.
- **POWER:** Indicates the current battery charge level.
- **ASSIST:** Displays the current level of pedal assist or motor power output.
- **G51:** Model identifier.

4.2 Button Functions

- **'+' Button:** Typically used to increase values, such as assist level, or navigate upwards in menus.
- **'M' Button (Mode/Menu):** Used to cycle through different display modes (e.g., Trip Distance, Max Speed, Average Speed, etc., if supported) or to enter/exit settings menus.
- **'-' Button:** Typically used to decrease values, such as assist level, or navigate downwards in menus.

Specific button functionalities may vary slightly depending on the bike's controller and firmware. Refer to your electric bike's main manual for detailed operational modes.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your G51 LCD Display.

- **Cleaning:** Wipe the display screen and casing with a soft, damp cloth. Do not use abrasive cleaners, solvents, or excessive water, as these can damage the screen or internal components.
- **Environmental Protection:** While the display is designed for outdoor use, avoid prolonged exposure to direct sunlight, extreme temperatures, or heavy rain. If riding in wet conditions, ensure the display is securely mounted and connections are tight.
- **Connection Check:** Periodically inspect the 5-pin connector and cable for any signs of wear, corrosion, or damage. Ensure the connection remains secure to prevent intermittent functionality.

- **Storage:** If storing your electric bike for an extended period, ensure the display is clean and dry. Store in a cool, dry place away from direct sunlight.

6. TROUBLESHOOTING

If you encounter issues with your G51 LCD Display, refer to the following common problems and solutions:

- **Display Not Turning On:**
 - Check if the electric bike's main power is on.
 - Verify that the 5-pin connector is securely plugged into the controller.
 - Inspect the wiring for any visible damage or loose connections, especially the red (power positive) and black (power negative) wires.
 - Ensure the ignition lock wire (blue) is correctly connected and engaged, if applicable to your system.
- **Incorrect Speed/Odometer Readings:**
 - This display relies on signals from your bike's controller. Ensure the speed sensor on your bike is clean and properly aligned.
 - Check the green (RX) and yellow (TX) communication wires for secure connections.
 - If the issue persists, it may indicate a problem with the bike's speed sensor or controller, not the display itself.
- **Buttons Not Responding:**
 - Ensure the display is powered on.
 - Check for any physical obstructions or debris around the buttons.
 - If the display is wet, allow it to dry completely.

For issues not covered here, or if troubleshooting steps do not resolve the problem, please contact customer support.

7. WARRANTY AND SUPPORT

The Pomya G51 Electric Bike LCD Display comes with a **90-day manufacturer warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover:

- Damage caused by improper installation or unauthorized modification.
- Damage due to misuse, abuse, neglect, or accident.
- Damage from natural disasters or external causes.
- Normal wear and tear.

For warranty claims or technical support, please contact Pomya customer service through your original point of purchase or visit the official Pomya store online. Please have your product model name (Pomyazgfc28bn46) and purchase details ready when contacting support.

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