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SPEDWHEEL EY3

Minimotors EY3 Color LCD Display User Manual

For Electric Scooters: 52V, 60V, 72V, 84V Systems

PRODUCT OVERVIEW

The SPEDWHEEL Minimotors EY3 Color LCD Display is a crucial component for various electric scooters, providing essential ride information and control. This display is compatible with 52V, 60V, 72V, and 84V systems, making it suitable for models such as Dualtron Thunder II, Storm, Victor, DT Mini, and DTX. It integrates a throttle for comprehensive control.



Figure 1: Front view of the Minimotors EY3 Color LCD Display with integrated throttle and wiring harness.

SETUP AND INSTALLATION

This display unit is designed for easy installation on compatible electric scooters. Proper installation ensures optimal performance and safety.

Pre-Installation Checklist:

- Ensure the scooter's power is completely off.
- Verify the scooter's voltage system (52V, 60V, 72V, or 84V) matches the display's compatibility.
- Gather necessary tools (e.g., screwdrivers, wrenches).

Installation Steps:

1. **Remove Old Display (if applicable):** Carefully disconnect the wiring and unmount the existing display from the

handlebar.

2. **Mount the EY3 Display:** Position the EY3 display and throttle assembly on the handlebar. Secure it firmly using the provided mounting hardware.
3. **Connect Wiring:** Connect the display's wiring harness to the scooter's main wiring system. Ensure all connections are secure and correctly matched (refer to your scooter's wiring diagram if unsure). The wiring harness includes multiple colored wires for various functions.
4. **Secure Connections:** Use zip ties or cable management clips to neatly secure all cables, preventing them from interfering with steering or moving parts.
5. **Test Functionality:** After installation, turn on the scooter and verify that the display powers on, shows correct information, and the throttle responds as expected.



Figure 2: Close-up view of the multi-colored wiring harness for connecting the EY3 display to the scooter's electrical system.



Figure 3: Rear view of the EY3 display and throttle assembly, showing mounting points and cable routing.

OPERATING INSTRUCTIONS

The EY3 display provides real-time information and allows control over various scooter settings.

Basic Functions:

- **Power On/Off:** Typically controlled by a dedicated power button on the scooter or a long press on one of the display buttons.
- **Speed Display:** Shows current speed in real-time.
- **Battery Level:** Indicates remaining battery charge.
- **Odometer/Trip Meter:** Displays total distance traveled or distance for the current trip.

Button Functions:

The display features 'P' and 'M' buttons, along with potentially a third button, for navigating menus and adjusting settings.



Figure 4: Side view of the EY3 display, highlighting the 'P' (Program) and 'M' (Mode) buttons used for menu navigation and setting adjustments.

- **'M' Button (Mode):** Short press to cycle through display modes (e.g., Odometer, Trip, Voltage). Long press to enter/exit settings menu.
- **'P' Button (Program):** Used to adjust values within the settings menu or confirm selections.
- **Throttle:** The integrated thumb throttle controls the acceleration of the electric scooter.

Advanced Settings (P-Settings):

The EY3 display allows access to advanced settings (often referred to as P-settings) to customize scooter performance. Accessing these settings typically involves a specific button combination or sequence (e.g., long-pressing 'M' and 'P' simultaneously). Refer to your scooter's specific manual for detailed P-setting configurations.

- Common P-settings include wheel size, speed limit, cruise control, and motor power.
- **Caution:** Incorrect adjustment of P-settings can affect scooter performance, range, and safety. Proceed with care and consult official resources.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your EY3 display.

- **Cleaning:** Wipe the display screen and body with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the screen or plastic.
- **Water Exposure:** While designed for outdoor use, avoid direct high-pressure water jets. The display is resistant to light splashes but not fully waterproof.
- **Cable Inspection:** Periodically check the wiring harness for any signs of wear, fraying, or loose connections. Secure any loose cables.

- **Storage:** When not in use for extended periods, store the scooter and display in a dry, cool place away from direct sunlight.

TROUBLESHOOTING

This section addresses common issues you might encounter with your EY3 display.

Problem	Possible Cause	Solution
Display does not power on.	No power from scooter; loose wiring connection; faulty display.	Ensure scooter battery is charged and main power is on. Check all wiring connections for tightness. If issues persist, consult a qualified technician.
Incorrect speed reading.	Incorrect wheel size setting (P-setting).	Access P-settings and verify the wheel diameter setting matches your scooter's wheel size.
Throttle not responding.	Loose throttle connection; faulty throttle sensor.	Check the throttle's wiring connection to the display/controller. Ensure no physical obstruction to the throttle lever.
Display shows error code.	Specific system malfunction.	Refer to your scooter's main user manual for a list of error codes and their corresponding solutions.

SPECIFICATIONS

Feature	Detail
Model Number	EY3
Compatibility	52V, 60V, 72V, 84V Electric Scooters (e.g., Dualtron Thunder II, Storm, Victor, DT Mini, DTX)
Display Type	Color LCD
Integrated Control	Thumb Throttle
Color	Black
Product Dimensions	6"L x 3"W
Shape	Round (Display Unit)
Special Feature	Easy to Install
Item Weight	6.2 ounces
Indoor/Outdoor Usage	Outdoor

Feature	Detail
Batteries Required	No (Powered by scooter)
Manufacturer	SPEDWHEL
UPC	744612928085

WARRANTY AND SUPPORT

For warranty information and technical support regarding your SPEDWHEL Minimotors EY3 Color LCD Display, please refer to the documentation provided with your electric scooter or contact the manufacturer directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Manufacturer: SPEDWHEL

For further assistance, please visit the official SPEDWHEL website or contact their customer service department.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

