AMONIDA LH100

AMONIDA LH100 LCD Display Dual Drive Brushless Motor Controller Kit

User Manual

Introduction

This manual provides detailed instructions for the AMONIDA LH100 LCD Display Dual Drive Brushless Motor Controller Kit. This kit is designed for electric bicycles and scooters, offering stable and quiet control for dual motor systems. It includes two powerful brushless motor controllers and an LH100 LCD display unit.

The system allows for simultaneous control of two motors, enabling functions such as braking, reverse speed control, and various instrument displays. The LH100 LCD display is suitable for 22.5 mm (0.9 inch) handlebars and provides clear data visibility, even in low-light conditions, thanks to its backlight.

Image: The LH100 LCD display unit connected to one of the dual drive brushless motor controllers.

Setup and Installation

The AMONIDA Dual Drive Brushless Motor Controller Kit is designed for straightforward installation. The primary function is activated by connecting the display plug to the controller's instrument interface. For additional accessories, refer to the detailed wiring instructions below.

Component Overview

Image: Two AMONIDA dual drive brushless motor controllers, showing their robust aluminum casings and numerous wiring harnesses.

The kit includes two motor controllers and one LH100 LCD display. Each controller features multiple wiring harnesses for connecting to motors, power, and various control signals.

Wiring Connections

Carefully connect the wires according to the diagram and color codes provided. Ensure all connections are secure to prevent malfunction.

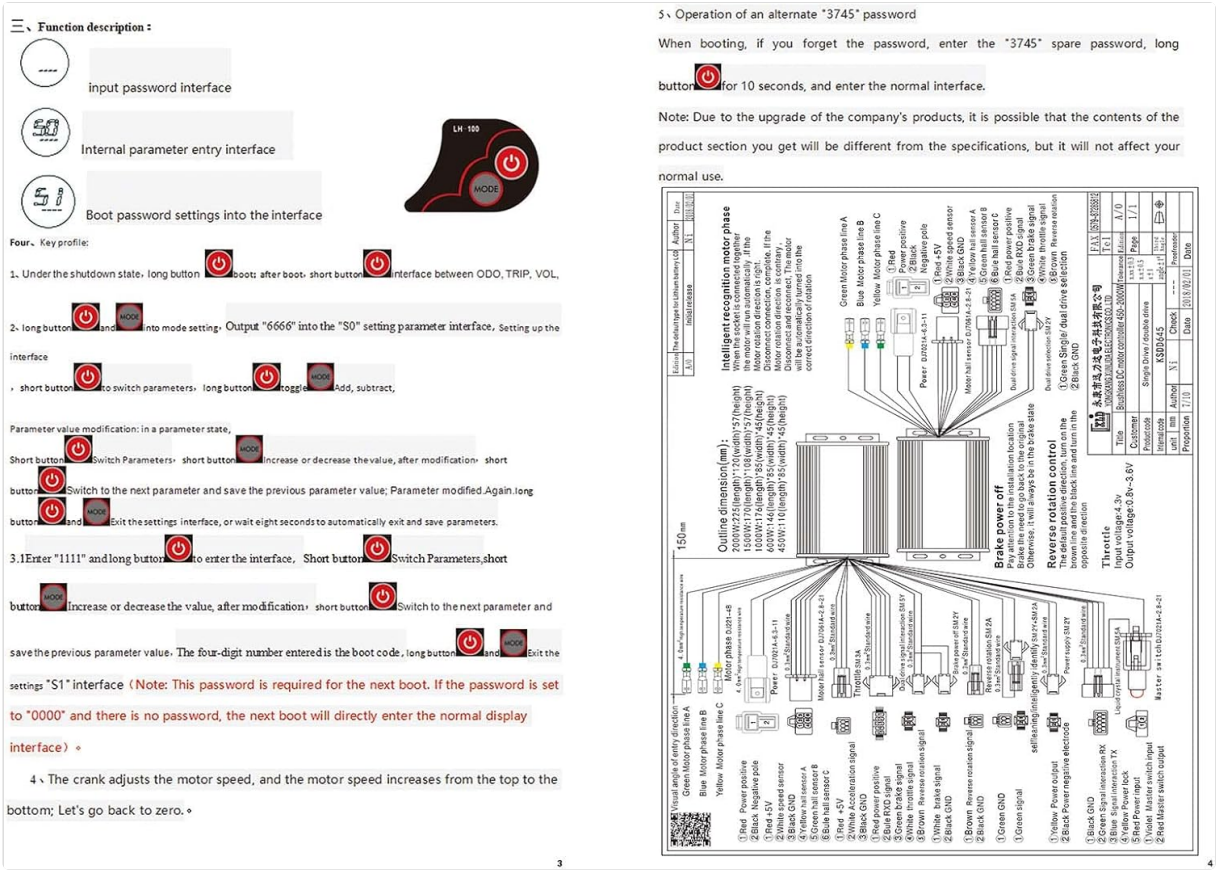

Image: A detailed diagram illustrating the wiring connections for the motor controllers and the LH100 LCD display, alongside instructions for display operation.

General Wiring Color Codes:

- **Red:** Power Positive
- **Black:** Ground (GND)
- **Green:** Motor Phase A
- **Yellow:** Motor Phase B
- **Blue:** Motor Phase C

Specific Control Connections:

- **Brake Power Off:** Connect the white wire for brake signal functionality.
- **Reverse Rotation Control:** Connect the brown wire for reverse signal functionality.

The system includes an intelligent identification line for motor phase, operating direction (positive/negative), and battery type. Once this identification line is disconnected after initial setup, the system will operate normally, controlling both motors for rotation, braking, and reverse at the same speed.

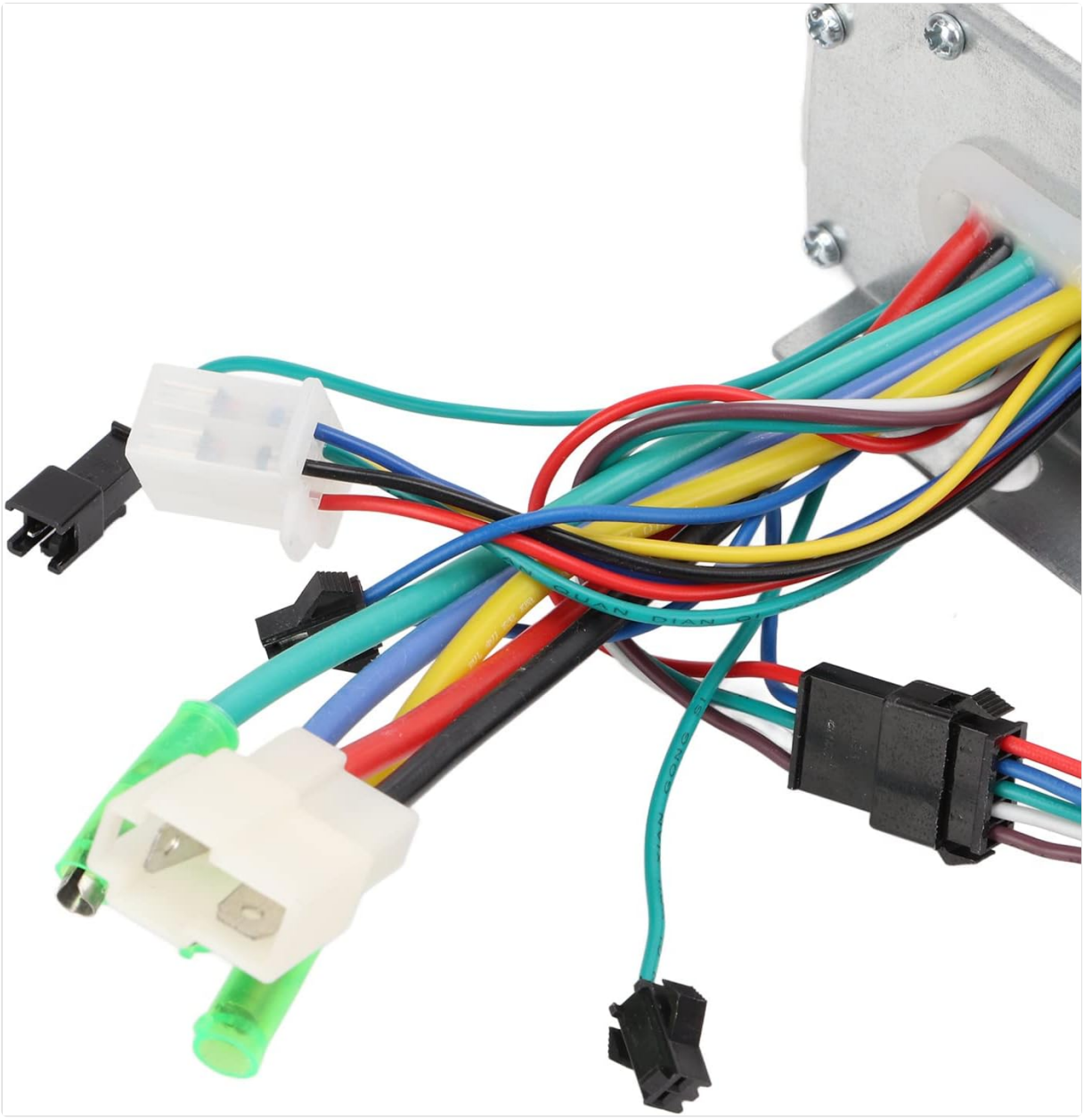

Image: A close-up view of the multiple connectors and colored wires extending from one of the motor controllers, illustrating the complexity of the wiring harness.

Operating Instructions

The LH100 LCD display provides clear operational data and allows for quick control via its buttons. The backlight ensures visibility in various lighting conditions.

Image: A close-up of the LH100 LCD display unit, showing the screen, power button, and mode button.

Basic Operation

1. **Power On/Off:** In the shutdown state, press and hold the **Power** button to boot the system.
2. **Display Interface Switching:** After booting, a short press of the **Power** button will cycle through ODO (Odometer), TRIP (Trip Distance), and VOL (Voltage) displays.
3. **Motor Speed Control:** The throttle (referred to as 'crank' in some translations) adjusts the motor speed. Increasing the throttle will increase motor speed.

Parameter Settings

To access and modify system parameters:

1. **Enter Mode Setting:** Press and hold the **Power** button to enter mode setting. The display will show '6666' to indicate entry into the 'S0' setting parameter interface.
2. **Navigate Parameters:** Short press the **Power** button to switch between parameters.
3. **Adjust Values:** Use the **Up/Down Arrows** to increase or decrease the parameter value.
4. **Save and Exit:** After modifying a parameter, short press the **Power** button to switch to the next parameter and save the previous value. To exit the settings interface, press and hold the **Power** button again, or wait eight seconds for automatic exit and parameter saving.

Advanced Settings (S1 Interface)

To access the 'S1' interface for advanced settings:

1. **Enter S1 Interface:** Enter '1111' as the boot code, then press and hold the**Power** button to enter the 'S1' interface.
2. **Navigate and Adjust:** Use short presses of the**Power** button to switch parameters and the **Up/Down Arrows** to adjust values.
3. **Save and Exit:** After modification, short press the **Power** button to switch to the next parameter and save the previous value. Press and hold the **Power** button to exit the 'S1' settings interface.

Note: *The password '1111' is required for the next boot to access the S1 interface. If the password is set to '0000', the system will directly enter the normal display interface on subsequent boots without requiring a password.*

Maintenance

The AMONIDA motor controller kit is constructed from durable aluminum alloy and ABS materials, ensuring good toughness and waterproof performance for internal circuit protection. Regular maintenance helps ensure longevity and optimal performance.

- **Cleaning:** Periodically wipe down the controllers and display with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Connection Check:** Regularly inspect all wiring connections for tightness and signs of wear or corrosion. Ensure all plugs are fully seated.
- **Environmental Protection:** While the controllers offer waterproof performance, avoid prolonged exposure to extreme moisture or submersion.

Troubleshooting

This section addresses common issues you might encounter with your AMONIDA controller kit.

Forgotten Password

If you forget the password for accessing the display settings:

- During boot-up, enter the spare password '3745'.
- Press and hold the **Power** button for 10 seconds.
- The system should then enter the normal operating interface.

System Malfunction

If the system is not operating as expected:

- Verify all wiring connections are correct and secure. Refer to the 'Wiring Connections' section.
- Check the battery voltage displayed on the LH100 LCD to ensure adequate power supply.
- Ensure the intelligent identification line has been properly used during initial setup and then disconnected for normal operation.

Note: *Due to ongoing product upgrades, minor differences may exist between the manual content and the actual product. These differences typically do not affect normal use.*

Specifications

Product Type	Dual Drive Electric Bicycle/Scooter Controller Kit
Brand	AMONIDA
Model	LH100 (LCD Display)
Power	1000W
Current Limit	38A
Voltage	36V / 48V (Universal)
Material	Aluminum Alloy + ABS
Weight	Approx. 1600g (56.4oz)
Controller Case Size	Approx. 18.2 x 8.5 x 4.5 cm (7.2 x 3.3 x 1.8 in)

Image: Two motor controllers shown with their approximate dimensions: 18.2 cm (7.2 in) length, 8.5 cm (3.3 in) width, and 4.5 cm (1.8 in) height.

Warranty and Support

Specific warranty information for the AMONIDA LH100 LCD Display Dual Drive Brushless Motor Controller Kit is not provided in this manual. Please refer to your purchase documentation or contact the retailer/manufacturer directly for warranty details and technical support.