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› Atyhao S866 Controller LCD Display Kit User Manual

Atyhao S866

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Model: S866

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Atyhao S866 Controller LCD Display Kit. This kit is designed for converting lithium battery-powered bicycles or scooters into electric riding vehicles, typically suitable for 1000W motors. The controller provides stable speed and sensitive control over braking and direction changes, while the S866 LCD display offers clear status and data readouts.

SETUP AND INSTALLATION

Carefully follow these steps for proper installation of the S866 Controller LCD Display Kit.

Component Overview and Wiring Diagram

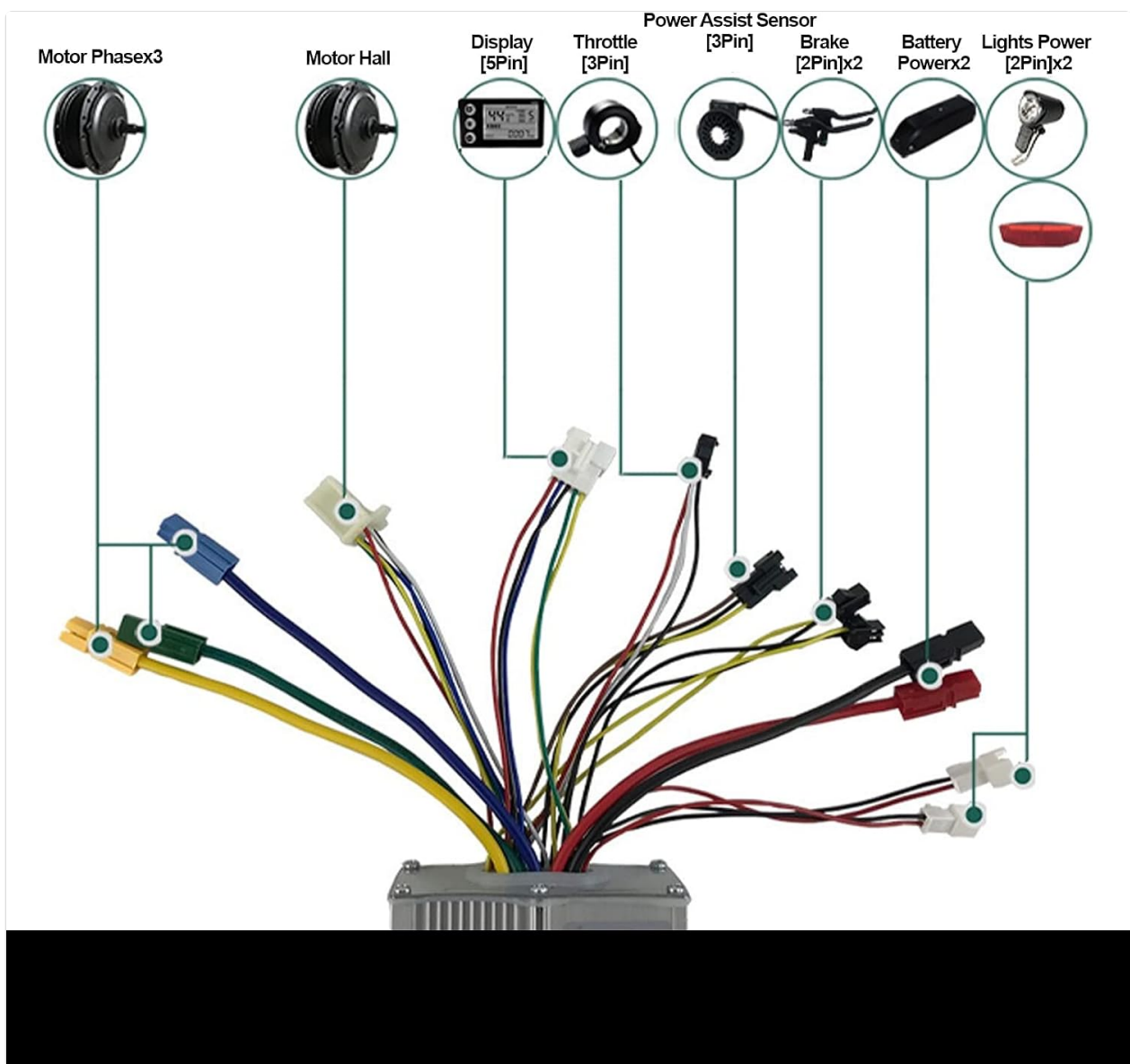


Figure 1: Wiring diagram illustrating the connections between the S866 controller and various electric scooter components. This diagram shows the motor phase wires, motor hall sensor, S866 display, throttle, power assist sensor, brake levers, battery power, and lights power connections.

Controller Wire Color Definitions

Identify each wire by its color and function for correct connection:

- **Yellow, Green, Blue Single Big Wire:** Motor Phase Wires
- **Black-Blue-Green-Yellow Double Row Six-wire Port:** Motor Hall Sensor Wires
- **Red and Black Single Big Line:** Power Line (Battery Connection)
- **Red, Blue, Black, Green and Yellow Single-row Five-wire Port:** Instrument Line (Display Connection)
- **Black and Yellow Lines (two):** Power-off Brake Handle Lines
- **Red and Black Lines:** Throttle Dial Line
- **Brown-Black-Yellow Line:** Power Sensor Line (Pedal Assist Sensor)
- **Black and Red Lines (two):** Headlight Lines

Ensure all connections are secure and match the corresponding components on your electric scooter or bicycle. Incorrect wiring can cause damage to the controller or other components.

OPERATING INSTRUCTIONS

The S866 LCD display provides comprehensive information and control settings for your electric vehicle.

Display Functions



Figure 2: A close-up view of the S866 LCD display, highlighting its buttons for navigation and the screen area where various parameters are shown.

- **Speed Display:** Shows current speed (Speed), average speed (Avg), and maximum speed (Max). Unit can be Mp/h or Km/h.
- **Battery Indicator:** Displays the current battery level and remaining power.
- **Fault Indicator:** Alerts to system errors.
- **Total Mileage (ODO):** Records the total distance traveled.
- **Single Mileage (TRIP):** Records the distance for the current trip.
- **Single Boot Time (TIME):** Shows the duration of the current operation.
- **Battery Voltage (VOL):** Displays the current battery voltage.
- **DST:** Indicates battery life.

The speed information is derived from the motor's Hall sensor and transmitted to the display via the controller.

Control Setting Functions

The S866 display allows for customization of various operational parameters:

- **Power Switch Control:** Turns the system on/off.
- **Wheel Diameter Setting:** Adjust for accurate speed and distance readings.
- **Idle Speed Automatic Sleep Time Setting:** Configures the time before the display enters sleep mode due to inactivity.
- **Backlight Brightness Setting:** Adjusts the display's backlight intensity.
- **Startup Mode Setting:** Defines how the motor starts (e.g., pedal assist, throttle).
- **Drive Mode Setting:** Selects different power assist levels or drive modes.
- **Voltage Level Setting:** Configures the operating voltage (DC 24V, 36V, 48V, 60V compatible).
- **Controller Limit Value Setting:** Sets parameters for the controller's operation limits.

Refer to the specific button combinations on the display for accessing and adjusting these settings. Typically, long-pressing certain buttons or combinations will enter the settings menu.



Brushless motor controller can provide stable speed
And sensitive control of braking and direction changes

Shell is made of metal with groove design
Has good heat dissipation function
Protect the internal circuit to avoid thermal overload

Figure 3: The S866 LCD display integrated onto bicycle handlebars, providing real-time speed and battery status during operation.

MAINTENANCE

To ensure the longevity and optimal performance of your Atyhao S866 Controller LCD Display Kit, follow these general maintenance guidelines:

- **Regular Cleaning:** Keep the display and controller free from dust and dirt. Use a soft, dry cloth for cleaning. Avoid abrasive cleaners or solvents.
- **Inspect Wiring:** Periodically check all wire connections for looseness or damage. Ensure wires are not pinched or exposed.
- **Environmental Protection:** While the display is rainproof, avoid prolonged exposure to heavy rain or submersion in water. The controller shell is designed for heat dissipation; ensure it is not obstructed.
- **Battery Care:** Follow the manufacturer's guidelines for your electric scooter's battery charging and storage to prevent issues that could affect the controller's performance.

TROUBLESHOOTING

If you encounter issues with your S866 Controller LCD Display Kit, consider the following common troubleshooting steps:

- **Display Not Powering On:**
 - Check the main power connection from the battery to the controller.
 - Verify the display's connection to the controller (Instrument Line).
 - Ensure the battery is charged.
- **Motor Not Responding:**
 - Check motor phase wires and motor hall sensor wires for secure connections.
 - Verify the throttle dial line connection.
 - Check for any fault indicators on the display.
- **Inaccurate Speed Reading:**
 - Ensure the wheel diameter setting in the display's control functions is correct for your wheel size.
 - Check the motor's Hall sensor connection.
- **Brakes Not Cutting Power:**
 - Verify the power-off brake handle lines are correctly connected and functioning.

For persistent issues, consult a qualified technician or contact customer support.

SPECIFICATIONS

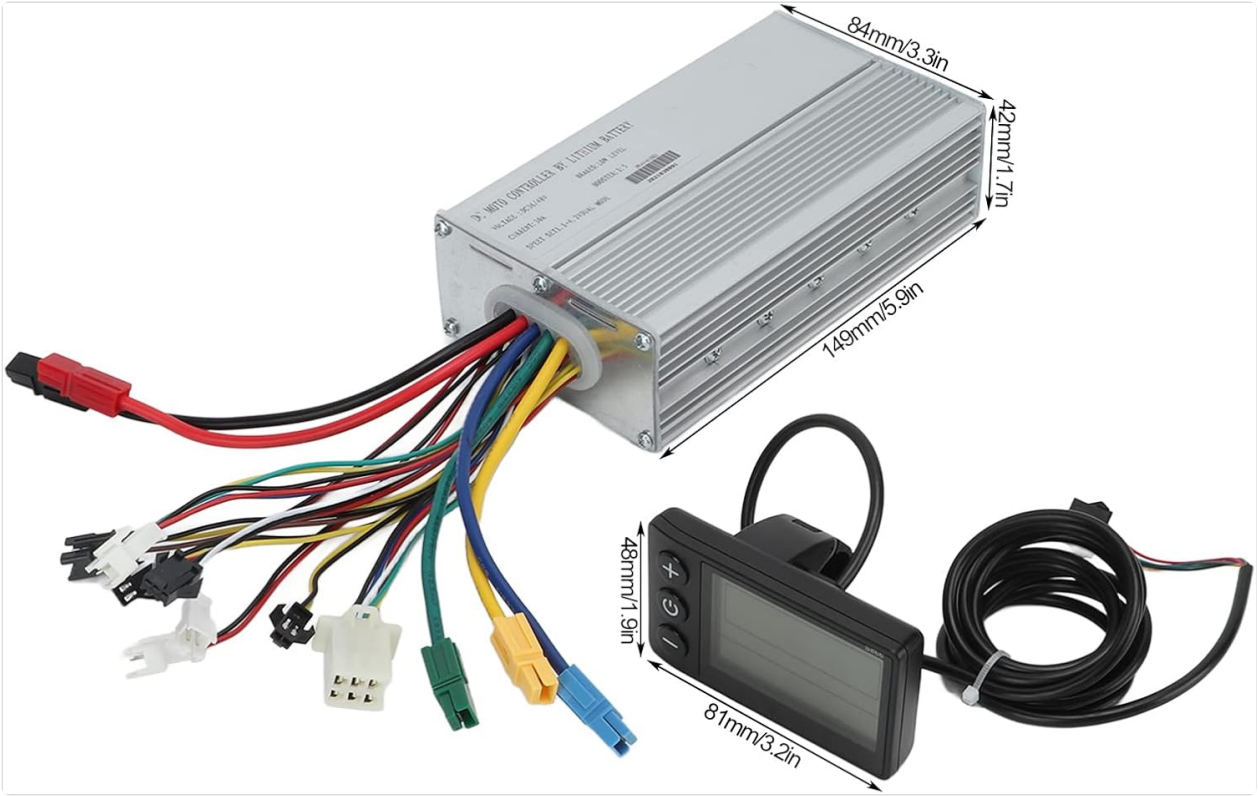


Figure 4: Dimensions of the S866 controller (149x84x42mm) and LCD display (81x48mm).

Feature	Detail
Item Type	S866 LCD Instrument and Controller Kit

Material	Aluminum Alloy (Controller) + ABS Plastic (Display)
Controller Rated Voltage	DC 36V/48V
Controller Maximum Current	30A
Controller Speed Setting	1-4.2V
Controller Brake Input	Low Level
Applicable Motor Power	1000W
Controller Box Size	Approx. 149x84x42mm / 5.9x3.3x1.7in
Meter Size	Approx. 81x48mm / 3.2x1.9in
Meter Working Voltage	DC 24V, 36V, 48V, 60V Compatible (selectable)
Communication Protocol	UART
Package Weight	Approx. 714g / 25.2oz

WARRANTY INFORMATION

Specific warranty details for the Atyhao S866 Controller LCD Display Kit are typically provided at the point of purchase or within the product packaging. Please retain your proof of purchase for any warranty claims. General warranty terms usually cover manufacturing defects for a limited period from the date of purchase. Damage resulting from improper installation, misuse, or unauthorized modifications is not covered. For information regarding extended protection plans, please refer to the options available from your retailer.

CUSTOMER SUPPORT

For technical assistance, troubleshooting, or further inquiries regarding your Atyhao S866 Controller LCD Display Kit, please contact Atyhao customer support through their official channels. You can visit the official Atyhao store for more product information and support resources:[Atyhao Store](#)