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Cloudpower X7

Electric Scooter Controller Set User Manual

Model: X7 Controller Set

1. Introduction and Overview

This manual provides essential information for the installation, operation, and maintenance of your Cloudpower 36V 20A Electric Scooter Motor Controller and Display Panel Set, specifically designed for the X7 scooter model.

Important Safety Notice: It is illegal to ride electric scooters on public roads, pavements, or cycle paths in many regions. This product is intended only for use on private land with the owner's explicit permission.

Key Features:

- **Compatibility:** Perfectly suited for HX for X7 electric scooters, ensuring seamless integration and optimal performance.
- **High Performance Control:** Delivers stable speed regulation and responsive handling with sensitive braking and direction control for a smooth riding experience.
- **Advanced Protection System:** Features excellent heat dissipation to prevent internal circuits from thermal overload, extending component lifespan.
- **Quality Construction:** Crafted from durable and lightweight aluminum alloy, designed for reliability and long-lasting use.
- **Easy Installation:** The complete package includes all necessary components for a straightforward upgrade or replacement.

2. Product Components

The Cloudpower Electric Scooter Controller Set includes the following components:

- 1 x Controller Unit
- 1 x Dashboard Display Panel
- 1 x Connecting Line



Figure 2.1: Overview of the Cloudpower Electric Scooter Controller Set, showing the main controller unit, the display panel with its wiring, and the connecting cable.



Figure 2.2: Detailed view of the dashboard display panel, highlighting its digital readout and connection points.



Figure 2.3: The main controller unit with its approximate dimensions (134mm length, 49mm height, 128mm main body length) for reference during installation.

3. Specifications

Attribute	Detail
Product Name	36V 20A Electric Scooter Motor Controller and Display Panel Set for HX for X7
Brand	Cloudpower
Model Compatibility	X7 Scooter
Material	Aluminium Alloy
Color	Silver / Black
Voltage	36V
Current	20A
Approximate Weight (Set)	260g (0.57 lbs)

Attribute	Detail
Approximate Package Size	18 x 8 x 8 cm (7.09 x 3.15 x 3.15 inches)
Item Dimensions (Controller)	Approx. 134mm x 49mm x 128mm (5.28 x 1.93 x 5.04 inches)
UPC	716709885960
Part Number	9LDPHR5811YFD65RAO3J7SK

4. Setup and Installation

This section provides general guidance for installing the controller set. Due to variations in scooter models and configurations, it is highly recommended to consult your scooter's original service manual or a qualified technician for specific wiring diagrams and procedures.

4.1 Pre-Installation Checklist:

- Ensure the scooter's power is completely off and the battery is disconnected.
- Gather necessary tools (screwdrivers, wire cutters/strippers, electrical tape, multimeter).
- Familiarize yourself with the existing controller's wiring and the new controller's connection points.
- Confirm the new controller set is compatible with your specific X7 scooter model.

4.2 Installation Steps (General):

1. **Access the Controller Compartment:** Locate and open the compartment where the existing scooter controller is housed. This usually involves removing screws or panels.
2. **Disconnect Old Controller:** Carefully disconnect all wires from the old controller. Take photos or make notes of the wiring configuration for reference.
3. **Mount New Controller:** Securely mount the new Cloudpower controller unit in the designated compartment. Ensure it is stable and has adequate space for ventilation.
4. **Connect Wiring:** Connect the motor, battery, display panel, and other peripheral wires to the new controller. Pay close attention to polarity and correct pin assignments. The connecting line provided facilitates the connection between the controller and the dashboard.
5. **Install Dashboard Display:** Mount the new dashboard display panel in its intended location on the scooter's handlebars or dashboard. Connect its wiring to the main controller via the provided connecting line.
6. **Secure and Test:** Once all connections are made, carefully secure any loose wires. Before closing the compartment, reconnect the battery and perform a preliminary power-on test to ensure basic functionality (e.g., display lights up, motor responds).
7. **Final Assembly:** If the preliminary test is successful, reassemble the scooter's panels and covers.



Figure 4.1: Illustrative image showing the controller set in context with an electric scooter, indicating where the components would typically be installed.

5. Operating Instructions

Once the controller set is correctly installed, operating your X7 scooter will largely follow its original operational procedures, with the new controller providing enhanced performance and reliability.

5.1 Basic Operation:

- **Power On/Off:** Use the designated power button on the dashboard display to turn the scooter on or off. The display will illuminate upon power-on.
- **Speed Control:** Utilize the throttle mechanism (e.g., thumb throttle, twist grip) to control the scooter's speed. The new controller provides stable and sensitive speed regulation.

- **Braking:** Apply the scooter's brake levers for responsive and effective braking. The controller assists in sensitive control of braking.
- **Display Information:** The dashboard display will show relevant information such as speed, battery level, and possibly riding mode, depending on your scooter's capabilities.

5.2 Riding Safely:

- Always wear appropriate safety gear, including a helmet.
- Operate the scooter only on private property with permission.
- Be aware of your surroundings and potential hazards.
- Avoid sudden acceleration or braking, especially at high speeds.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your Cloudpower controller set and your electric scooter.

- **Regular Inspection:** Periodically check all electrical connections to ensure they are secure and free from corrosion.
- **Cleanliness:** Keep the controller and display panel clean and free from dust, dirt, and moisture. Use a soft, dry cloth for cleaning. Avoid using harsh chemicals or excessive water.
- **Heat Dissipation:** Ensure the controller's housing is not obstructed, allowing for proper heat dissipation. The aluminum alloy construction is designed for efficient cooling.
- **Environmental Protection:** Avoid exposing the controller set to extreme temperatures, direct sunlight for prolonged periods, or heavy rain. While the unit is robust, protecting it from harsh elements will extend its life.
- **Battery Health:** Maintain your scooter's battery according to its manufacturer's guidelines, as a healthy battery contributes to the controller's stable operation.

7. Troubleshooting

This section addresses common issues you might encounter. For complex problems, it is advisable to seek assistance from a qualified technician.

Problem	Possible Cause	Solution
Scooter does not power on.	Battery low or disconnected; loose power connection to controller; faulty display panel.	Charge battery; check battery connections; verify all power cables to controller and display are secure.
Motor not responding or erratic.	Loose motor phase wires; hall sensor issue; throttle malfunction; controller fault.	Check motor connections; inspect throttle wiring; ensure controller is receiving proper signals.
Display not working or showing incorrect information.	Loose connecting line; damaged display panel; controller communication issue.	Verify the connecting line between controller and display is firmly seated; inspect display for physical damage.

Problem	Possible Cause	Solution
Overheating of controller.	Poor ventilation; excessive load; internal short.	Ensure controller compartment has adequate airflow; reduce load if consistently overheating; consult technician if problem persists.

8. Warranty and Support

Cloudpower products are manufactured to high-quality standards. For specific warranty information regarding your Electric Scooter Controller Set, please refer to the warranty card included with your purchase or contact your retailer.

For technical support, installation queries, or troubleshooting assistance beyond this manual, please contact Cloudpower customer service or your authorized dealer. When contacting support, please have your product model (X7 Controller Set) and UPC (716709885960) ready.

Manufacturer: Cloudpower

Model Name: X7

Part Number: 9LDPHR5811YFD65RAO3J7SK

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