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› Instruction Manual for SPEDWHEEL Kugoo Kirin Kukirin M5 Pro Electric Scooter Controller

SPEDWHEEL M5 Pro

Instruction Manual for SPEDWHEEL Kugoo Kirin Kukirin M5 Pro Electric Scooter Controller

Model: M5 Pro

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your new SPEDWHEEL Controller for Kugoo Kirin Kukirin M5 Pro Electric Scooter. Please read this manual thoroughly before installation and use to ensure proper function and safety.

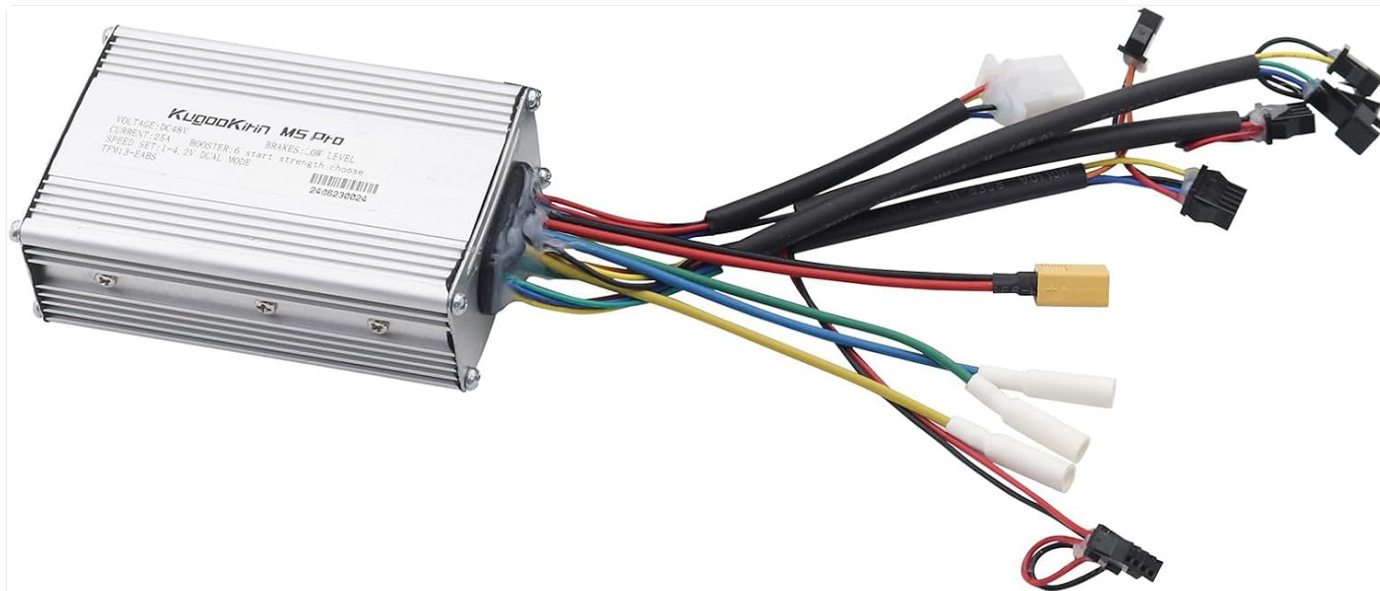


Image 1: The SPEDWHEEL Kugoo Kirin Kukirin M5 Pro Electric Scooter Controller, showing its metallic casing and numerous colored wires extending from one end, each with a specific connector.

SAFETY PRECAUTIONS

- Always disconnect the scooter's battery before performing any installation or maintenance.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- If you are unsure about any step, consult a qualified technician.
- Keep the controller dry and away from extreme temperatures.

SETUP AND INSTALLATION

The controller is a critical component of your electric scooter's electrical system. Proper installation is essential for safe and reliable operation.

1. **Preparation:** Ensure the scooter is powered off and the battery is disconnected. Access the area where the old controller is located or where the new controller will be installed.
2. **Identify Connections:** Carefully identify each wire and its corresponding connector on the new controller. Common connections include:
 - **Battery Power (Thick Red/Black):** Connects to the main battery terminals.
 - **Motor Phase Wires (Thick Yellow/Green/Blue):** Connects to the motor's phase wires.
 - **Hall Sensor Wires (Thin Red/Black/Yellow/Green/Blue):** Connects to the motor's Hall sensors.
 - **Throttle (Usually 3-wire connector):** Connects to the throttle assembly.
 - **Brake Levers (Usually 2-wire connectors):** Connects to the brake cut-off switches.
 - **Display/Meter (Multi-pin connector):** Connects to the scooter's display unit.
 - **Lights/Horn (Various connectors):** Connects to auxiliary components.
3. **Disconnect Old Controller (if replacing):** Carefully disconnect each wire from the old controller, noting its position and function. Take photos if necessary for reference.
4. **Connect New Controller:** Connect the wires from the scooter to the corresponding ports on the new SPEDWHEEL controller. Ensure each connection is firm and correctly seated. Pay close attention to polarity for power connections.
5. **Secure Controller:** Mount the controller securely within the scooter's frame or designated compartment. Ensure it is protected from water and physical damage.
6. **Initial Test:** Reconnect the battery. Power on the scooter and perform a basic function test. Check throttle response, brake cut-off, and display functionality. If any issues arise, immediately disconnect power and re-check all connections.

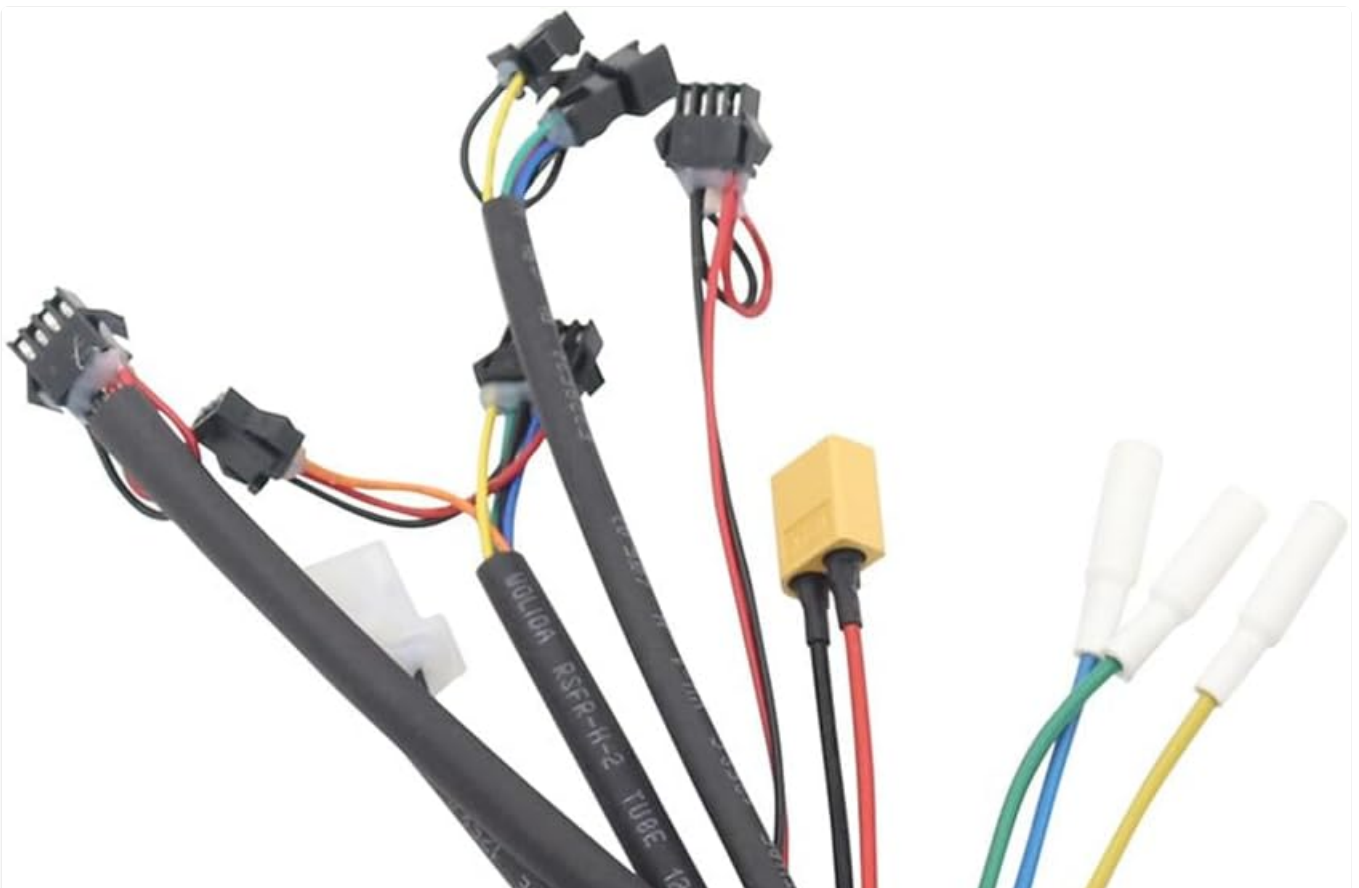




Image 2: A detailed view of the SPEDWHEEL controller, highlighting the product label with voltage and current specifications, and the organized arrangement of its various output wires.

OPERATING PRINCIPLES

The controller acts as the brain of your electric scooter, converting battery power into motor movement based on user input (throttle, brakes) and sensor data. It manages power delivery, speed control, and various safety features.

- **Throttle Control:** The controller interprets the throttle signal to regulate the power sent to the motor, controlling acceleration and speed.
- **Brake Cut-off:** When the brake levers are engaged, the controller immediately cuts power to the motor, enhancing safety.
- **Battery Management:** It monitors battery voltage to prevent over-discharge and protect the battery.
- **Error Detection:** The controller can detect certain faults within the system and may display error codes on the

scooter's display (if equipped).

MAINTENANCE

Minimal maintenance is required for the controller itself, but proper care ensures its longevity.

- **Keep Dry:** Protect the controller from water and excessive moisture. While some controllers have water resistance, prolonged exposure can cause damage.
- **Clean Connections:** Periodically inspect all wire connections for corrosion or looseness. Clean with a dry cloth if necessary.
- **Avoid Physical Damage:** Ensure the controller is securely mounted and not subject to vibrations or impacts.
- **Temperature:** Avoid operating or storing the scooter in extreme temperatures, which can affect electronic components.

TROUBLESHOOTING

If you experience issues with your scooter after controller installation, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Scooter does not power on.	Loose battery connection, dead battery, faulty power switch.	Check battery connections. Ensure battery is charged. Test power switch.
Motor not responding to throttle.	Loose throttle connection, faulty throttle, brake lever engaged, motor Hall sensor issue.	Check throttle and brake lever connections. Ensure brake levers are not stuck.
Motor runs intermittently or with jerks.	Loose motor phase wires or Hall sensor wires.	Inspect and secure all motor connections.
Display not working or showing error codes.	Loose display connection, incompatible display, internal controller fault.	Check display cable connection. Refer to scooter's display manual for error codes.

If troubleshooting steps do not resolve the issue, it may indicate a more complex problem or a faulty component. Contact customer support for further assistance.

SPECIFICATIONS

Below are the key specifications for the SPEDWHEL Kugoo Kirin Kukirin M5 Pro Electric Scooter Controller:

- **Brand:** SPEDWHEL
- **Model:** M5 Pro
- **Color:** BLACK
- **Item Weight:** 4.8 ounces
- **Package Dimensions:** 4 x 3 x 2 inches
- **Country of Origin:** China
- **UPC:** 761850191187
- **Fit Type:** Vehicle Specific Fit (Kugoo Kirin Kukirin M5 Pro Electric Scooter)

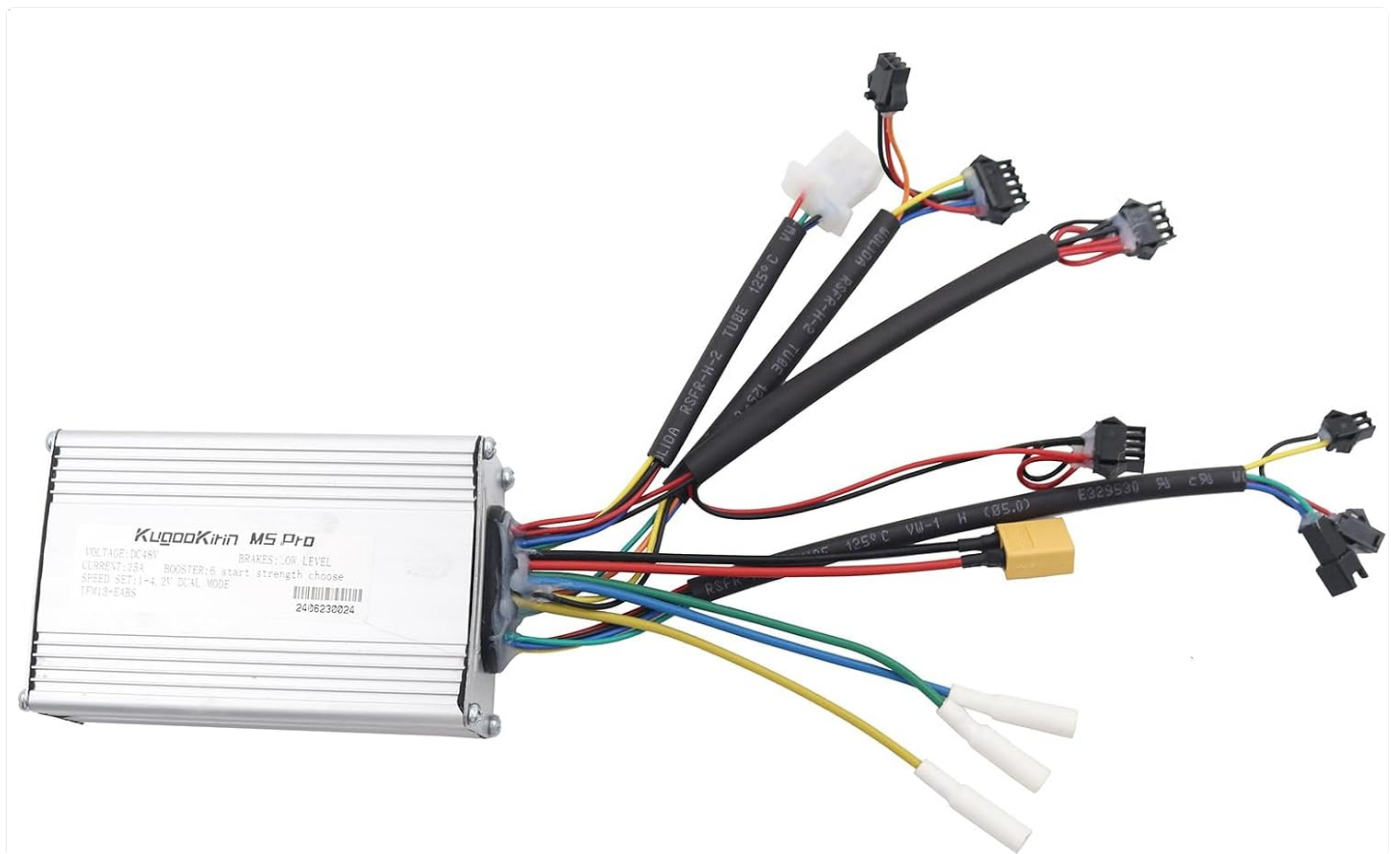


Image 3: The SPEDWHEEL controller from a slightly different angle, emphasizing the array of connectors at the end of its wires, designed for integration into the scooter's electrical system.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your SPEDWHEEL controller, please refer to the seller's return policy or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

Seller: hulixia
Manufacturer: SPEDWHEEL

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