

Manuals.plus /
› XINMEILAN /
› XINMEILAN 72V 50A Minimotors Electric Scooter Controller User Manual

XINMEILAN XML-SHL-108469MK

XINMEILAN 72V 50A Minimotors Electric Scooter Controller User Manual

Model: XML-SHL-108469MK | Brand: XINMEILAN

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your XINMEILAN 72V 50A Minimotors Front and Rear Dual Drive Controller. This controller is designed as a replacement control module for Kaabo Wolf King GT/Pro electric scooters. It is crucial to read and understand all instructions before proceeding with installation or use to ensure safe and proper functionality.

The controller is a 72V 50A micro motor front and rear dual drive unit, intended for replacing damaged original components. It is not recommended for retrofitting other vehicle models.

IMPORTANT SAFETY INFORMATION

- **Professional Installation Recommended:** Due to the complexity of electric scooter systems and high voltage components, installation by a qualified professional is strongly recommended to prevent damage to the product or personal injury.
- **Compatibility:** This controller is specifically designed for Kaabo Wolf King GT/Pro models. Using it with other scooter models may lead to malfunction or damage.
- **Voltage and Amperage:** Ensure your scooter's battery and motor system are compatible with a 72V 50A controller. Incorrect voltage or amperage can cause severe damage.
- **Power Disconnection:** Always disconnect the scooter's battery power before attempting any installation, maintenance, or repair work.
- **Wiring:** Pay close attention to wiring diagrams and ensure all connections are secure and correctly polarized. Loose or incorrect connections can cause short circuits or component failure.
- **Environmental Conditions:** Avoid exposing the controller to extreme temperatures, moisture, or corrosive substances.

PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and undamaged.

- XINMEILAN 72V 50A Minimotors Electric Scooter Controller (as depicted in the main product image)

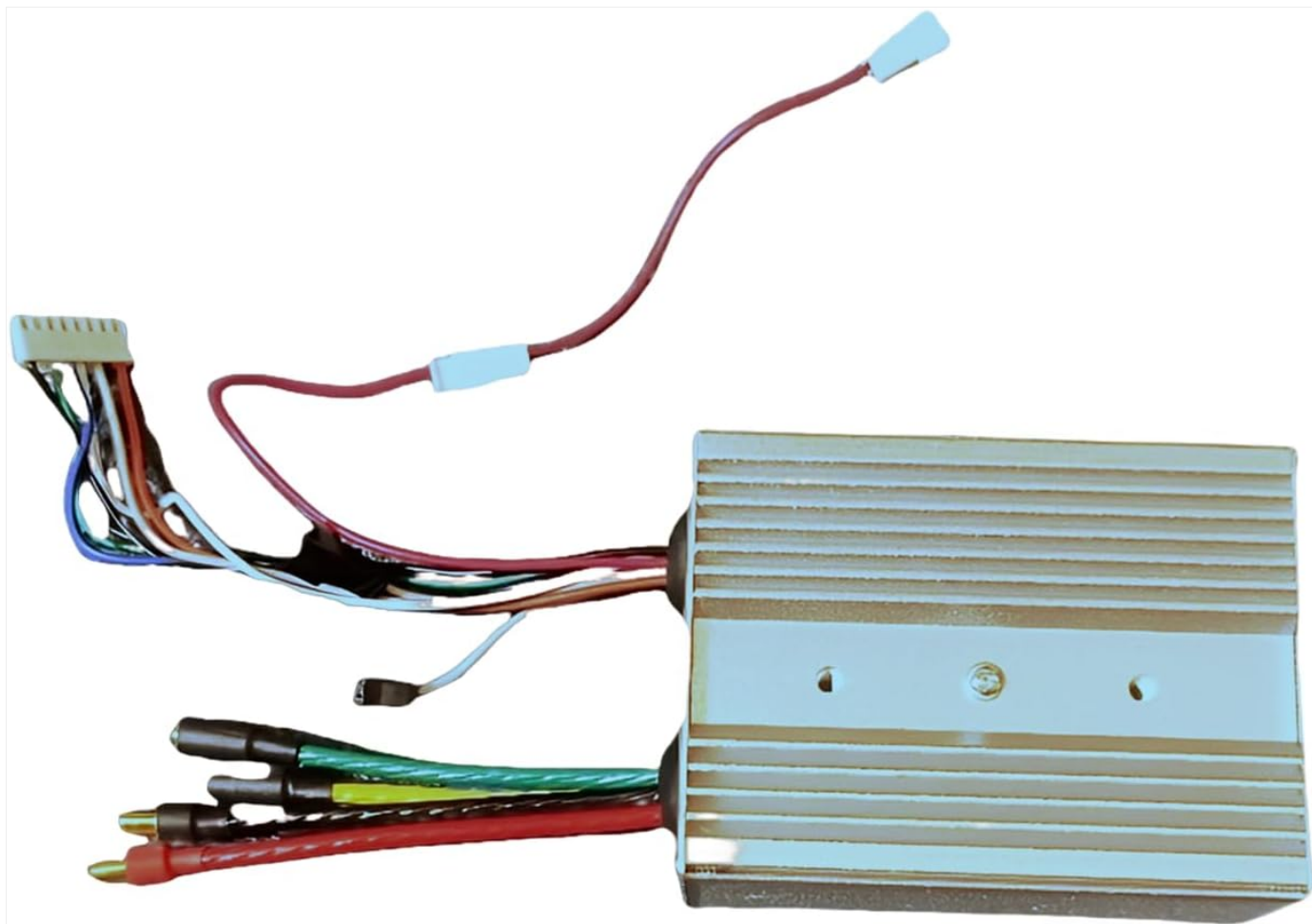


Figure 1: The XINMEILAN 72V 50A Minimotors Electric Scooter Controller, showing the main unit and connected wiring harness.

SETUP AND INSTALLATION

Warning: Installation should only be performed by individuals with appropriate technical knowledge and experience in electric scooter electronics. Incorrect installation can lead to serious injury or damage to the scooter and controller.

1. **Preparation:** Ensure the electric scooter is turned off and the battery is completely disconnected before beginning any work. Secure the scooter to prevent accidental movement.
2. **Locate Existing Controller:** Identify the current controller unit on your Kaabo Wolf King GT/Pro. Note its mounting position and how all wires are connected. Taking photos of the existing setup can be helpful.
3. **Disconnect Old Controller:** Carefully disconnect all wiring from the old controller. This typically includes power cables (battery), motor phase wires, hall sensor wires, throttle, brake sensors, display, and other accessory connections.
4. **Remove Old Controller:** Unmount the old controller from its housing.
5. **Install New Controller:** Mount the new XINMEILAN 72V 50A controller in the same location. Ensure it is securely fastened and protected from vibrations and moisture.
6. **Connect Wiring:** Connect all wires to the new controller. Match the connections precisely to the original setup.
 - **Power Cables:** Connect the main battery positive and negative cables. Ensure correct polarity.
 - **Motor Phase Wires:** Connect the three thick motor phase wires (usually green, blue, yellow).
 - **Hall Sensor Wires:** Connect the smaller hall sensor wires.
 - **Throttle, Brake, Display, etc.:** Connect all remaining signal and accessory wires according to the scooter's wiring diagram.
7. **Initial Check:** Before reconnecting the battery, double-check all connections for security and correctness. Ensure no bare wires are exposed or touching.

8. **Reconnect Battery:** Carefully reconnect the scooter's battery.
9. **Test Functionality:** Turn on the scooter and perform a low-speed test in a safe, open area. Check throttle response, brake functionality, and display readings. Listen for any unusual noises.

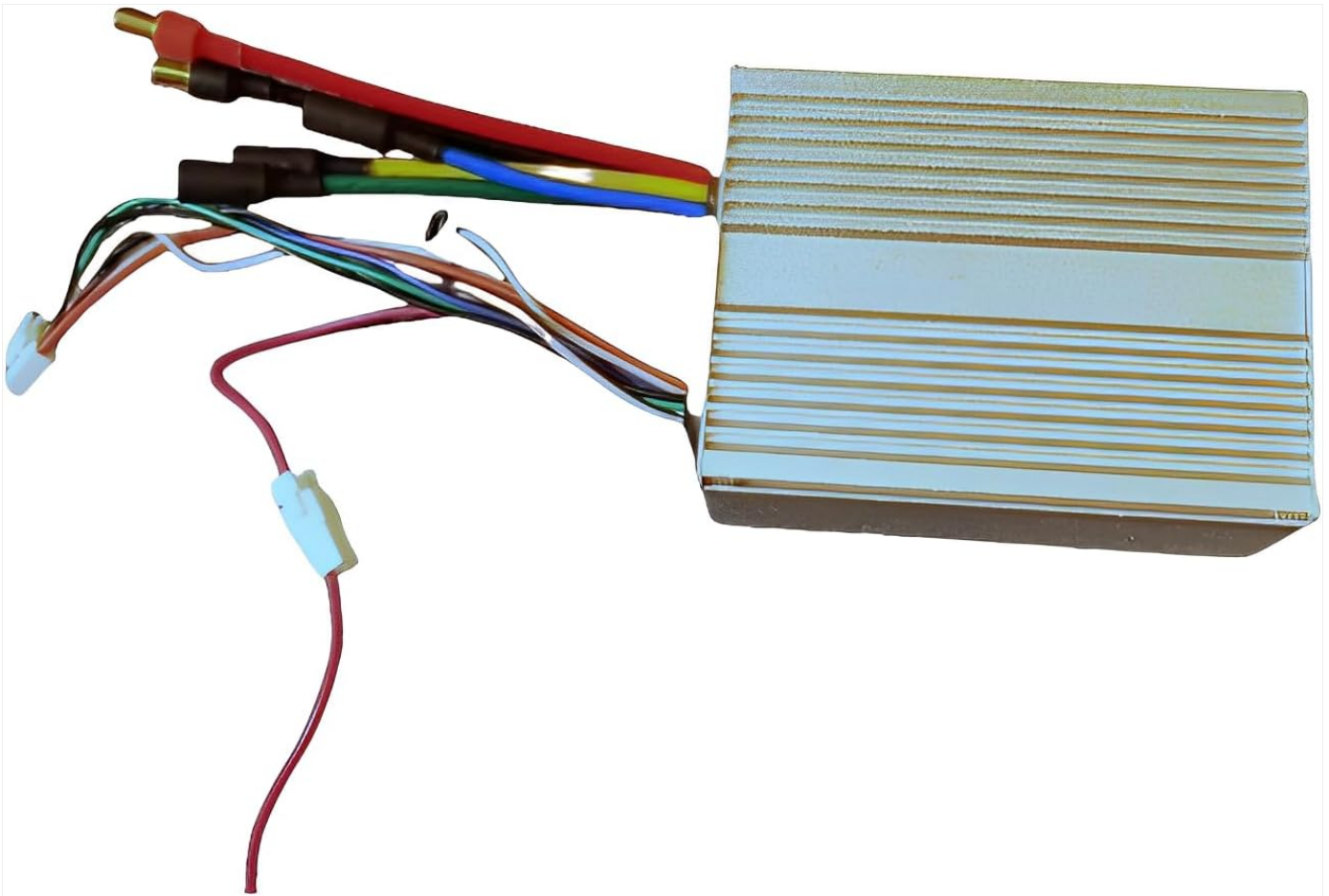


Figure 2: A closer view of the controller's wiring harness, illustrating the various connections for power, motor, and control signals.

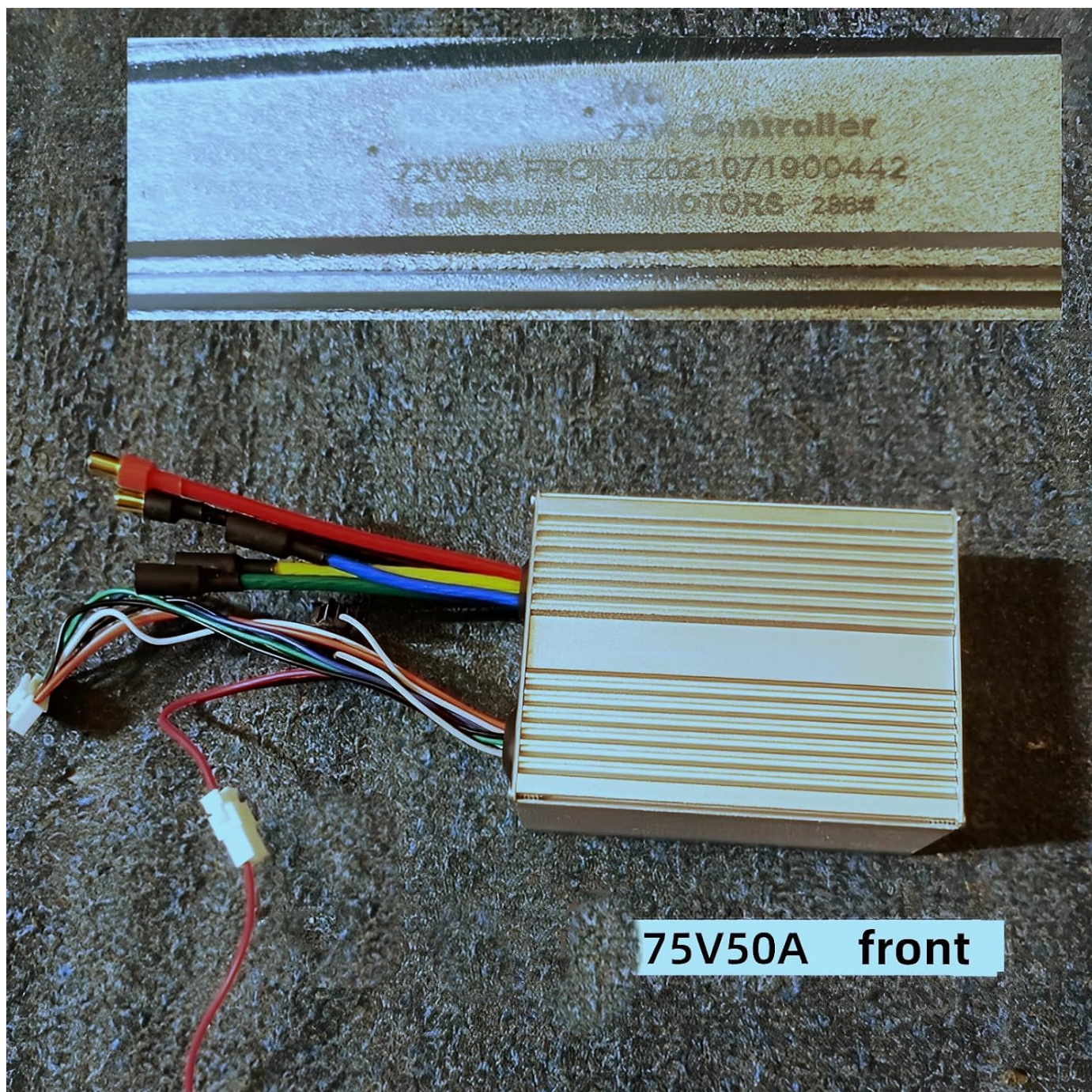


Figure 3: Detail of the controller's label, indicating "72V Controller" and model specifics, essential for verification.

OPERATING INSTRUCTIONS

Once correctly installed, the XINMEILAN 72V 50A controller will manage the power delivery from your scooter's battery to the motors, based on your throttle input and other control signals (e.g., brake levers, display settings). The controller operates automatically to provide smooth acceleration and efficient power usage.

- **Power On/Off:** Use your scooter's main power switch to turn the system on or off.
- **Throttle Control:** The controller translates your throttle input into motor power. Apply throttle smoothly for controlled acceleration.
- **Braking:** The controller integrates with your scooter's braking system, potentially offering regenerative braking or cutting motor power upon brake activation.
- **Display Integration:** The controller communicates with your scooter's display to show speed, battery level, and other operational parameters.

MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your controller.

- **Regular Inspection:** Periodically inspect the controller and its wiring for any signs of wear, damage, or loose connections.
- **Cleanliness:** Keep the controller free from dust, dirt, and debris. Use a soft, dry cloth for cleaning. Avoid using liquids directly on the controller.
- **Moisture Protection:** Ensure the controller remains dry. If it gets wet, allow it to dry completely before operating the scooter.
- **Temperature Management:** Ensure adequate airflow around the controller, especially during prolonged use, to prevent overheating.

TROUBLESHOOTING

If you encounter issues with your controller, refer to the following common troubleshooting steps. For complex problems, consult a professional technician.

- **No Power:**
 - Check battery connection and charge level.
 - Verify main power switch is on.
 - Inspect power cables for damage or loose connections.
- **Motor Not Responding:**
 - Check throttle connection and functionality.
 - Inspect motor phase wires and hall sensor wires for secure connections.
 - Ensure brake levers are not engaged (some scooters cut power when brakes are applied).
- **Erratic Behavior:**
 - Check all wiring for loose connections or signs of short circuits.
 - Ensure the controller is not exposed to excessive heat or moisture.
- **Error Codes on Display:** Refer to your scooter's specific display manual for interpretation of error codes.

SPECIFICATIONS

Feature	Specification
Brand	XINMEILAN
Model	XML-SHL-108469MK
Voltage	72V
Amperage	50A
Compatibility	Kaabo Wolf King GT/Pro (Front and Rear Dual Drive)
Operating Temperature	Up to 60 Degrees Celsius
Display Type Support	LCD or LED
UPC	741960367238

Feature	Specification
ASIN	B0DP2LR2GB

WARRANTY INFORMATION

This XINMEILAN controller comes with a **1-year warranty** from the date of purchase. The warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, misuse, accidents, unauthorized modifications, or normal wear and tear. Please retain your proof of purchase for warranty claims.

SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact the seller or manufacturer directly. When contacting support, please have your product model number (XML-SHL-108469MK) and proof of purchase readily available.
Manufacturer: XML-SHL

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.

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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

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