

XINMEILAN XML-SHL-108469MK

XINMEILAN Electric Scooter Controller Instruction Manual

Model: XML-SHL-108469MK

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the XINMEILAN 60V 30A/1200Wx2 Electric Scooter Controller. This specific model is designed as a replacement control module part for the Kaabo Wolf Warrior 11 electric scooter, specifically for the rear dual drive system without Hall sensors.

It is crucial to understand that this controller is intended for replacing damaged original components and is not recommended for retrofitting other scooter models. Due to the complexity of the electrical system, professional installation is strongly advised.

2. SAFETY INFORMATION

- **Professional Installation:** The installation of this controller involves complex electrical wiring. To prevent damage to the product, the scooter, or personal injury, installation should only be performed by qualified and experienced professionals.
- **Power Disconnection:** Always ensure the scooter's power supply is completely disconnected before attempting any installation, inspection, or maintenance.
- **Correct Model Application:** This controller is specifically designed for the Kaabo Wolf Warrior 11 rear dual drive system (60V 30A/1200Wx2, without Hall). Using it with incompatible models or for front controller replacement may lead to malfunction or damage.
- **Avoid Modifications:** Do not attempt to modify the controller or its wiring. Unauthorized modifications can void warranties and create safety hazards.
- **Environmental Conditions:** Protect the controller from water, excessive moisture, extreme temperatures, and direct sunlight.

3. PRODUCT OVERVIEW

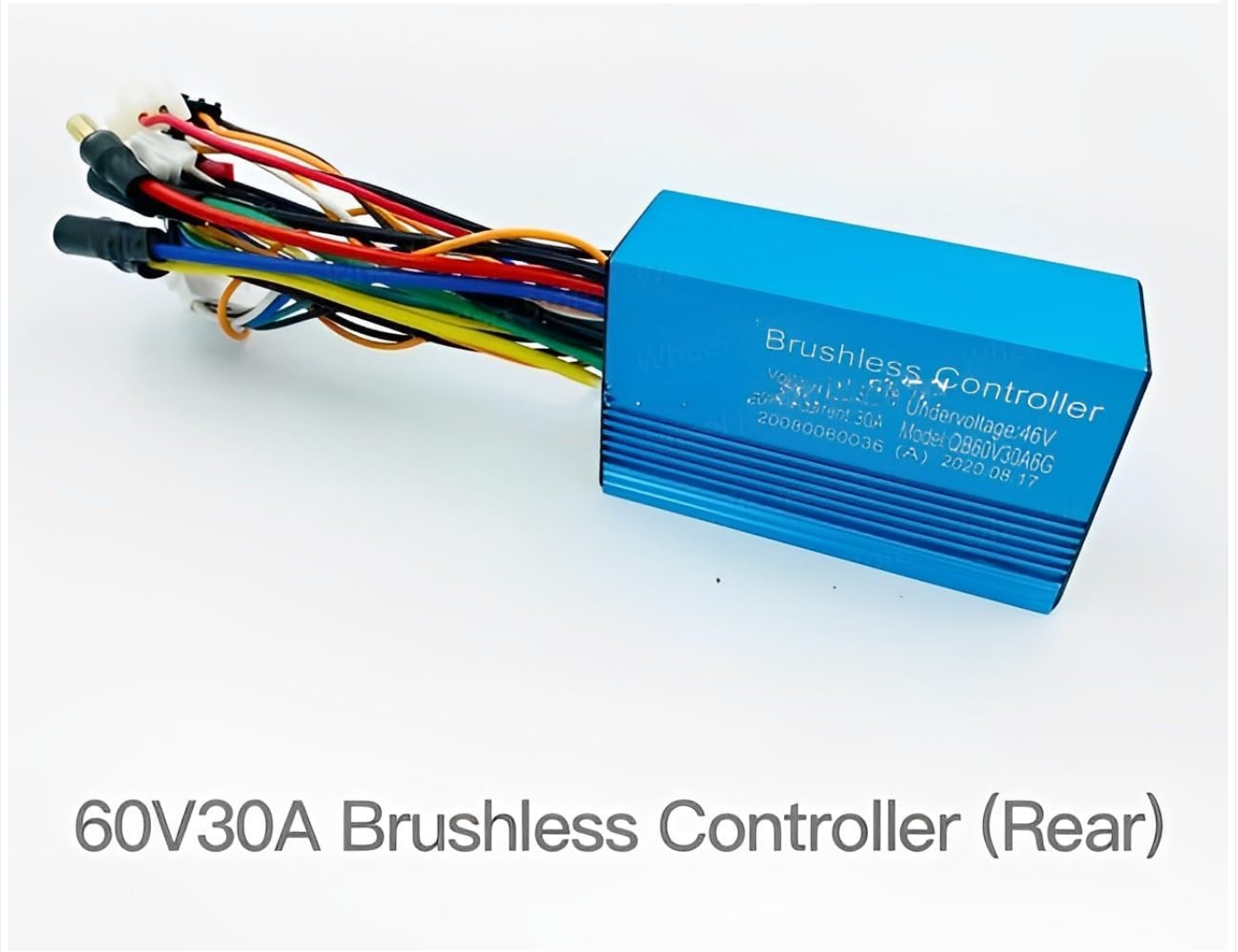
The XINMEILAN 60V 30A Brushless Controller is a critical component for managing the power delivery to the electric motor in compatible scooters. This specific variant is designed for the rear wheel drive system of the Kaabo Wolf Warrior 11.



Figure 3.1: XINMEILAN 60V 30A Brushless Controller. This image shows the blue rectangular controller unit with multiple colored wires emerging from one end, ready for connection.

Key Features:

- Designed for 60V 30A/1200Wx2 electric scooter systems.
- Specifically compatible with Kaabo Wolf Warrior 11 (rear dual drive, no Hall).
- Brushless controller technology for efficient motor management.
- Intended for direct replacement of damaged original rear controller parts.



60V30A Brushless Controller (Rear)

Figure 3.2: XINMEILAN 60V 30A Brushless Controller (Rear). This image displays the blue controller unit with its wiring, similar to Figure 3.1, but includes a text overlay confirming it is the "60V30A Brushless Controller (Rear)".

4. SETUP AND INSTALLATION

The installation of the XINMEILAN Electric Scooter Controller is a precise procedure that requires technical expertise. It is strongly recommended that this task be performed by a certified electric scooter technician or a professional with extensive experience in scooter electronics.

General Installation Guidelines (for Professionals):

1. **Preparation:** Ensure the scooter is turned off and the battery is disconnected. Access the existing controller compartment, typically located within the scooter's deck.
2. **Identification:** Carefully identify all existing wiring connections to the old controller, including motor phase wires, battery power, throttle, brake, display, and other accessory connections. It is advisable to photograph the existing setup for reference.
3. **Removal of Old Controller:** Disconnect all wires from the old controller, noting their positions and functions. Remove the

old controller from its mounting.

4. **Installation of New Controller:** Mount the new XINMEILAN controller securely in the designated compartment.
5. **Wiring Connections:** Connect the wires from the scooter to the new controller according to the scooter's wiring diagram and the controller's specifications. Pay close attention to polarity and correct wire pairing (e.g., motor phase wires, Hall sensor wires if applicable, battery input, throttle, brake signals). *Note: This controller is specified as "without Hall", so Hall sensor connections will not be present or used.*
6. **Secure Connections:** Ensure all connections are tight and properly insulated to prevent short circuits or loose contacts.
7. **Testing:** Before fully reassembling the scooter, perform preliminary tests to ensure the controller functions correctly. This typically involves reconnecting the battery and checking basic motor response, throttle input, and brake cut-off.
8. **Reassembly:** Once confirmed operational, carefully reassemble the scooter's components.

Disclaimer: This section provides general guidance. Specific wiring diagrams for the Kaabo Wolf Warrior 11 and the XINMEILAN controller are essential for correct installation. Consult the scooter's service manual or a qualified technician.

5. OPERATING INSTRUCTIONS

The XINMEILAN controller operates as an integral part of the electric scooter's propulsion system. Once correctly installed, its function is largely automatic, translating user inputs (throttle, brakes) into motor commands.

Normal Operation:

- Ensure the scooter's battery is adequately charged.
- Turn on the scooter's main power switch.
- The controller will manage power delivery to the rear motor based on throttle input.
- Brake levers will signal the controller to cut power to the motor and activate regenerative braking (if supported by the scooter's system).
- The controller also manages over-current, under-voltage, and over-temperature protections for the motor and battery.

No direct user interaction with the controller itself is required during normal operation. All controls are managed via the scooter's existing interface (throttle, display, brake levers).

6. MAINTENANCE

The XINMEILAN controller is designed for durability and typically requires minimal maintenance. However, periodic checks can help ensure its longevity and optimal performance.

Recommended Maintenance Practices:

- **Keep Clean and Dry:** Ensure the controller compartment remains free from dust, dirt, and moisture. Water ingress can severely damage electronic components.
- **Inspect Wiring:** Periodically (e.g., every 6 months or after significant mileage) have a professional inspect all wiring connections for signs of wear, corrosion, or looseness.
- **Check for Overheating:** While operating, the controller may generate heat. Ensure adequate ventilation within the scooter's compartment. If the controller feels excessively hot to the touch after a ride, consult a professional.
- **Avoid Physical Damage:** Protect the scooter from impacts that could damage the controller or its internal components.

Note: Any internal maintenance or repair should only be performed by authorized service personnel. Opening the controller casing will void any potential warranty.

7. TROUBLESHOOTING

If you experience issues with your electric scooter after controller installation, consider the following common troubleshooting steps. Due to the complexity of the system, professional diagnosis is often necessary.

Symptom	Possible Cause	Recommended Action
Scooter does not power on.	Battery issues, loose power connection, faulty main switch, controller failure.	Check battery charge. Verify all power connections to the controller are secure. Consult a professional.
Motor not responding to throttle.	Loose throttle connection, faulty throttle, motor phase wire issue, controller malfunction.	Check throttle wiring. Inspect motor phase wire connections. Professional diagnosis recommended.
Motor runs intermittently or roughly.	Loose motor connections, partial controller failure, motor issues.	Verify all motor connections. Seek professional assistance for diagnosis.
Brakes not cutting motor power.	Faulty brake sensor/lever, loose brake signal wire, controller issue.	Check brake lever connections. Ensure brake sensors are functioning. Consult a professional.

Important: Do not attempt complex electrical repairs yourself unless you are a qualified professional. Incorrect troubleshooting or repair can lead to further damage or safety risks.

8. SPECIFICATIONS

Attribute	Detail
Brand	XINMEILAN
Model Number	XML-SHL-108469MK
Compatible Scooter Model	Kaabo Wolf Warrior 11 (Rear Dual Drive, No Hall)
Voltage	60V
Current	30A
Power (Max)	1200W x 2 (for dual drive system)
Controller Type	Brushless, No Hall Sensor
Exterior	Smooth surface
UPC	741960367184
Manufacturer	XML-SHL

9. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please contact the seller or manufacturer directly. It is recommended to retain your proof of purchase for any warranty claims.

Given the specialized nature of this product and the recommendation for professional installation, any issues arising from improper installation may not be covered under warranty. Always ensure installation is performed by a qualified technician.

Seller: xinmeilan

For further assistance, please visit the product page on Amazon or contact the seller through the Amazon platform.

© 2024 XINMEILAN. All rights reserved.

This manual is for informational purposes only. Specifications are subject to change without notice.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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