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› XINMEILAN GT-72V50A Front (B) Electric Scooter Controller User Manual

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XINMEILAN GT-72V50A Front (B) Electric Scooter Controller User Manual

Model: GT-72V50A Front (B) | Brand: XINMEILAN

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the XINMEILAN GT-72V50A Front (B) 72V 50A TFT Instrument Sine Wave Controller. This controller is specifically designed as a replacement control module part for the Kaabo Wolf King GT electric scooter. It is intended for replacing damaged or old components and is not recommended for retrofitting other vehicle models. Please read this manual thoroughly before attempting any installation or operation.



Image 1.1: Front view of the XINMEILAN GT-72V50A Front (B) Electric Scooter Controller with various wiring harnesses.

2. SAFETY INFORMATION

Warning: Electrical components can be dangerous. Improper installation or handling can lead to serious injury, electric shock, or damage to the product and scooter. Always observe the following safety precautions:

- Ensure the scooter's power is completely off and the battery is disconnected before beginning any installation or

maintenance.

- Wear appropriate personal protective equipment (PPE), including insulated gloves and eye protection.
- Do not attempt installation if you are not familiar with electrical systems or scooter repair. Professional installation is highly recommended.
- Avoid contact with water or moisture. This controller is not waterproof.
- Do not modify the controller or its wiring.
- Verify all connections are secure and correct before restoring power.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and undamaged. The package should contain:

- One (1) XINMEILAN GT-72V50A Front (B) Electric Scooter Controller

Note: Additional tools or components required for installation (e.g., wiring connectors, mounting hardware) are not included and must be sourced separately.

4. SETUP AND INSTALLATION

Important: Installation of this controller requires specialized knowledge of electric scooter electrical systems. **It is strongly recommended that installation be performed by qualified professionals.** Incorrect installation can lead to severe damage to the scooter, the controller, or personal injury.

This controller is designed as a direct replacement for the original control module in the Kaabo Wolf King GT electric scooter. It is not intended for custom builds or modifications to other scooter models.

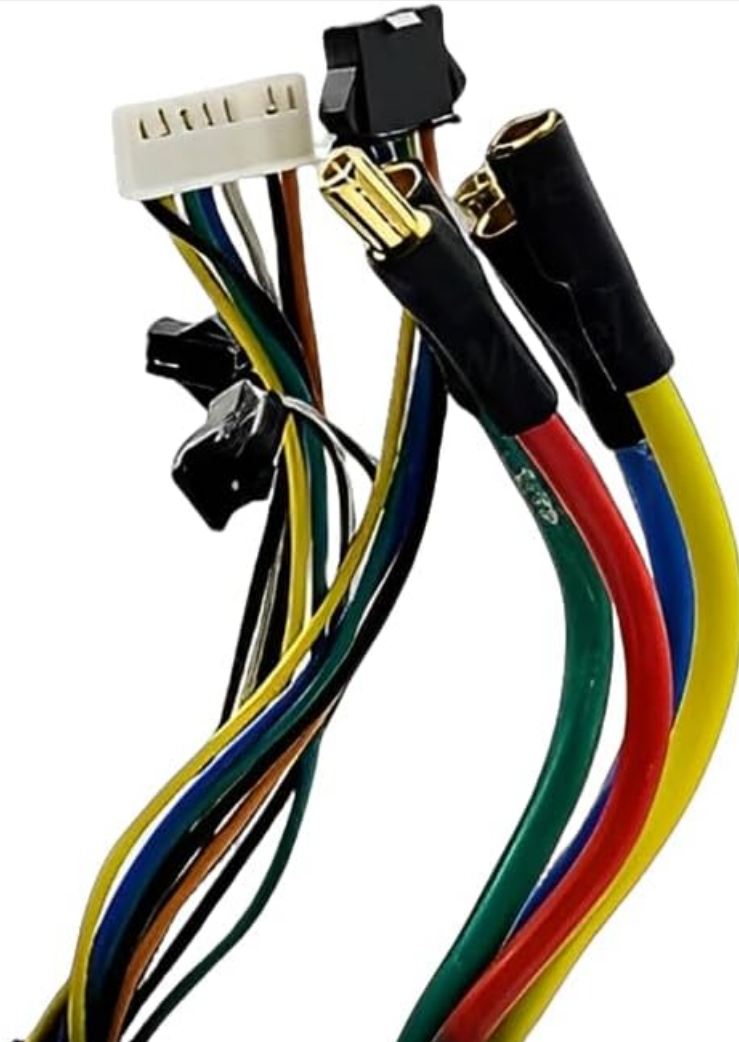




Image 4.1: Side view of the controller, showing the heat sink fins and wiring connections.

General Installation Guidelines (for professionals):

1. **Disconnect Power:** Ensure the scooter's battery is disconnected and all power is off.
2. **Access Old Controller:** Carefully locate and remove the existing controller from the scooter, noting all wire connections.
3. **Match Connections:** Connect the new XINMEILAN GT-72V50A Front (B) controller to the scooter's wiring harness. Pay close attention to matching all wires (motor phases, Hall sensors, power, ignition, brake, throttle, TFT instrument, etc.) according to the scooter's wiring diagram.
4. **Secure Mounting:** Mount the new controller securely in the designated location, ensuring proper ventilation and protection from physical damage.
5. **Verify Connections:** Double-check all connections for tightness and correctness. Ensure no wires are pinched or exposed.
6. **Reconnect Power:** Carefully reconnect the scooter's battery.
7. **Initial Test:** Perform a low-speed test in a safe environment to confirm proper function of the motor, brakes, throttle, and TFT display.

Note: This controller is specifically for the "Front (B)" position in a dual-drive Kaabo Wolf King GT setup. Ensure you have selected the correct controller for your needs (Front or Rear).

5. OPERATING INSTRUCTIONS

The XINMEILAN GT-72V50A Front (B) controller functions as the brain of your electric scooter's propulsion system. Once correctly installed, it manages the power delivery to the motor and communicates with the TFT instrument display.

Suitable for Use in TFT Instrument Vehicles



Image 5.1: Example of a TFT instrument display, compatible with this controller.

- **Power On:** Turn on your electric scooter using its standard power switch. The controller will initialize and establish communication with the TFT instrument.
- **Throttle Control:** The controller translates input from the throttle into motor speed and power. Apply throttle smoothly for controlled acceleration.
- **Braking:** The controller integrates with the scooter's braking system, often providing regenerative braking or cutting motor power when brakes are applied.
- **TFT Instrument Communication:** The controller sends data such as speed, battery level, and error codes to the TFT display for real-time monitoring.
- **Sine Wave Technology:** This controller utilizes sine wave technology for smoother, quieter motor operation and improved efficiency compared to square wave controllers.

Refer to your Kaabo Wolf King GT's original user manual for specific operating procedures related to the scooter itself and its TFT display functions.

6. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your controller. Always disconnect power before performing any maintenance.

- **Keep Clean:** Periodically inspect the controller for dirt, dust, or debris accumulation. Gently clean the exterior with a dry, soft cloth. Do not use liquids or solvents.
- **Avoid Moisture:** Protect the controller from water, rain, and excessive humidity. Moisture can cause short circuits and damage.
- **Inspect Connections:** Regularly check all wiring connections for signs of corrosion, looseness, or damage. Ensure they are secure.
- **Temperature Management:** Ensure the controller is mounted in a location that allows for adequate airflow to prevent overheating, especially during prolonged or high-power operation.
- **Physical Damage:** Avoid impacts or physical damage to the controller housing.

7. TROUBLESHOOTING

If you experience issues with your scooter after controller installation, consider the following basic troubleshooting steps. For complex issues, consult a professional technician.

- **No Power/Scooter Not Turning On:**
 - Check battery connection and charge level.
 - Verify all power connections to the controller are secure.
 - Ensure the scooter's ignition/power switch is functioning correctly.
- **Motor Not Responding/Erratic Behavior:**
 - Check all motor phase wire connections (usually thicker wires).
 - Check Hall sensor wire connections (usually thinner wires).
 - Verify throttle connection and function.
 - Look for error codes on the TFT instrument display and consult the scooter's manual for their meaning.
- **TFT Instrument Not Displaying:**
 - Check the communication wire connection between the controller and the TFT display.
 - Ensure the display itself is receiving power.
- **Overheating:**
 - Ensure the controller has adequate ventilation.
 - Avoid prolonged high-load operation if overheating occurs.

If troubleshooting does not resolve the issue, seek assistance from a qualified electric scooter repair specialist.

8. SPECIFICATIONS

Feature	Specification
Brand	XINMEILAN
Model	GT-72V50A Front (B)
Voltage	72V
Current Limit	50A
Controller Type	Sine Wave
Compatibility	Kaabo Wolf King GT (Front Motor)
Instrument Type	TFT Automotive
Manufacturer Part Number	XML-SHL-108469MK

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, return policies, or technical support, please contact the seller or manufacturer directly. Keep your purchase receipt or proof of purchase for warranty claims.

Manufacturer: XML-SHL

Brand: XINMEILAN

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

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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