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Voilamart EBV-48V2000WFCTW

Voilamart 26x4.0 Fat Tire Ebike Conversion Kit User Manual

Model: EBV-48V2000WFCTW

1. Introduction

Thank you for choosing the Voilamart 26x4.0 Fat Tire Electric Bicycle Conversion Kit. This kit is designed to transform your standard pedal bicycle into a powerful electric bike, offering enhanced mobility and performance. This manual provides comprehensive instructions for the safe and correct installation, operation, and maintenance of your new conversion kit. Please read this manual thoroughly before beginning installation or operation to ensure proper function and safety.

2. Safety Information

- Always wear a helmet and appropriate safety gear when riding an electric bicycle.
- Ensure all connections are secure and waterproofed before riding, especially in wet conditions.
- Do not operate the kit if any components are damaged or malfunctioning.
- The system requires a 48 Volt electrokinetic cell battery with a nominal capacity not less than 14.5Ah (battery not included). Use only compatible batteries.
- Be aware of local regulations regarding electric bicycle power limits. The kit is restricted to 750W and 38km/h (24mph) by default for road-legal use.
- The brake levers include a motor power cut-off function. Ensure they are correctly installed and functioning to safely disengage the motor.
- Avoid exposing the controller and display to extreme temperatures or direct sunlight for prolonged periods.

3. Package Contents

Verify that all components listed below are present in your package:

- 1x Brushless Gearless Motor Front Wheel for Fat Tire (26 x 4.0 inch)
- 1x Intelligent Motor Controller
- 1x SW900 LCD Gauge Monitor
- 1x Cable Ties & Plastic Coil
- 1x Pair of Handle Bars (included Thumb Throttle)
- 1x Pair of Brake Handles
- 1x Yellow Junction Box Wire Hub

- 1x Manual (this document)



Image: All components included in the Voilamart 26x4.0 Fat Tire Ebike Conversion Kit. This includes the front hub motor wheel, controller, LCD display, throttle, brake levers, and wiring accessories.

4. Setup and Installation

Follow these steps to install your Voilamart Ebike Conversion Kit. Professional installation is recommended if you are unfamiliar with bicycle mechanics.

4.1 Front Wheel Installation

1. Remove your bicycle's existing front wheel.
2. Install the new Voilamart front hub motor wheel into the front fork dropout. Ensure the dropout width is 135mm.
3. Secure the wheel using the provided M14 nuts. Ensure the wheel is centered and spins freely without rubbing.

4.2 Controller and Wiring

1. Mount the intelligent motor controller in a secure, protected location on your bike frame, such as in a controller bag (not included).
2. Connect the motor cable from the front wheel to the controller.
3. Connect the battery cable (battery not included) to the controller. Ensure correct polarity.
4. Install the thumb throttle on the handlebar and connect its cable to the controller.
5. Replace your existing brake levers with the provided brake handles. Connect their cables to the controller. These levers cut off motor power when activated.
6. Install the SW900 LCD Gauge Monitor on the handlebar and connect its cable to the controller.
7. Install the Pedal Assist System (PAS) sensor on the crank. Ensure it is properly aligned with the magnets. Connect its cable to the controller.
8. Use cable ties and the plastic coil to neatly manage and secure all wiring, preventing interference with moving parts.



Image: An example diagram showing the placement and connection points for the various accessories of the ebike conversion kit on a bicycle frame.

Your browser does not support the video tag.

Video: This video demonstrates the installation process for the Voilamart Ebike Conversion Kit components, including the motor wheel, controller, display, and sensors.

5. Operating Instructions

5.1 SW900 LCD Gauge Monitor

The SW900 LCD monitor displays essential riding information:

- **Battery Power:** Indicates remaining battery charge.
- **Riding Speed:** Current speed in km/h or mph.
- **PAS Level:** Shows the current level of pedal assist (0-5).
- **Mileage:** Total distance traveled (Odometer) and trip distance.
- **Wattmeter:** Displays real-time power output.
- **Error Codes:** In case of a system issue, an error code will be displayed to help diagnose the problem.



Image: Close-up view of the SW900 LCD control panel, highlighting its various indicators such as battery life, speed, odometer, PAS level, and wattmeter.

5.2 Power Modes (750W / 2000W)

Your intelligent motor controller allows you to switch between two power modes:

- **Road-Legal Mode (750W / 48V):** Restricted to 750W power output and a maximum speed of 38 km/h (24 mph). This is the default setting for compliance with most road regulations.
- **Off-Road Full Power Mode (2000W / 48V):** Provides the full 2000W power output with a maximum speed of 65 km/h (40 mph). To activate this mode, disconnect the blue switch wire embedded in the controller. Reconnect the blue wire to return to road-legal mode.

Warning: *Always be aware of local laws and regulations regarding electric bicycle power and speed limits. Use the 2000W mode only in designated off-road areas where permitted.*

5.3 Riding Modes (Throttle / PAS / Manual)

The kit supports three riding modes:

- **Throttle Mode:** Use the thumb throttle to control motor power directly, without pedaling.
- **Pedal Assist System (PAS) Mode:** The motor provides assistance as you pedal. The level of assistance can be adjusted via the LCD monitor (typically 0-5 levels).
- **Manual Mode:** Ride the bicycle like a traditional bike, without any motor assistance.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your ebike conversion kit.

- **Cleaning:** Keep the motor, controller, and display clean. Use a damp cloth; avoid high-pressure washing directly on electrical components.
- **Connections:** Periodically check all electrical connections for tightness and signs of corrosion. Ensure waterproof seals are intact.
- **Brakes:** Regularly inspect brake pads and cables. Ensure the brake levers' motor cut-off function is working correctly.
- **Tires:** Maintain correct tire pressure for optimal performance and safety. Inspect tires for wear and damage.
- **Spokes:** Check spoke tension regularly, especially after initial rides, to ensure wheel integrity.
- **Battery (User-Supplied):** Follow the manufacturer's guidelines for charging, storage, and care of your 48V battery.

7. Troubleshooting

If you encounter issues, refer to the SW900 LCD monitor for error codes. Common issues and solutions are listed below:

Problem	Possible Cause	Solution
Motor not engaging	Low battery, loose connections, brake levers engaged, PAS sensor issue, controller fault.	Check battery charge. Inspect all wiring connections. Ensure brake levers are fully released. Check PAS sensor alignment. Consult LCD error code.
LCD display not turning on	No power from battery, loose display cable, damaged display.	Verify battery connection and charge. Check display cable connection to controller.
Inconsistent power output	Loose motor or battery connections, PAS sensor misalignment, controller issue.	Check all main power connections. Realign PAS sensor.
Error code on LCD	Specific system fault.	Refer to the LCD manual (if provided separately) for specific error code meanings and troubleshooting steps. If unavailable, contact customer support with the error code.

If you cannot resolve an issue, please contact Voilamart customer service.

8. Specifications

Key technical specifications for the Voilamart 26x4.0 Fat Tire Ebike Conversion Kit:

- **Wheel Type:** Front
- **Motor:** 48V 2000W Brushless Gearless Hub Motor
- **Dropout:** 135mm
- **Rim:** Alloy double wall
- **Spokes:** Steel, 12G x 2.6mm (36 spokes)

- **Wheel Size:** 26 x 4.0 inch
- **Wheel Axle:** Length 170mm x Dia 10mm
- **Max Load Capacity:** 250kg (551 lb)
- **Net Weight (Kit):** Approximately 10kg (22lb)
- **Power Cord Length:** 138cm
- **Road-Legal Mode (Default):** 750W / 48V, Torque: 45 N.M, Max speed: 38 km/h (24 mph)
- **Off-Road Full Power Mode:** 2000W / 48V, Torque: 52 N.M, Max speed: 65 km/h (40 mph)
- **Material:** Aluminum (controller, rim)

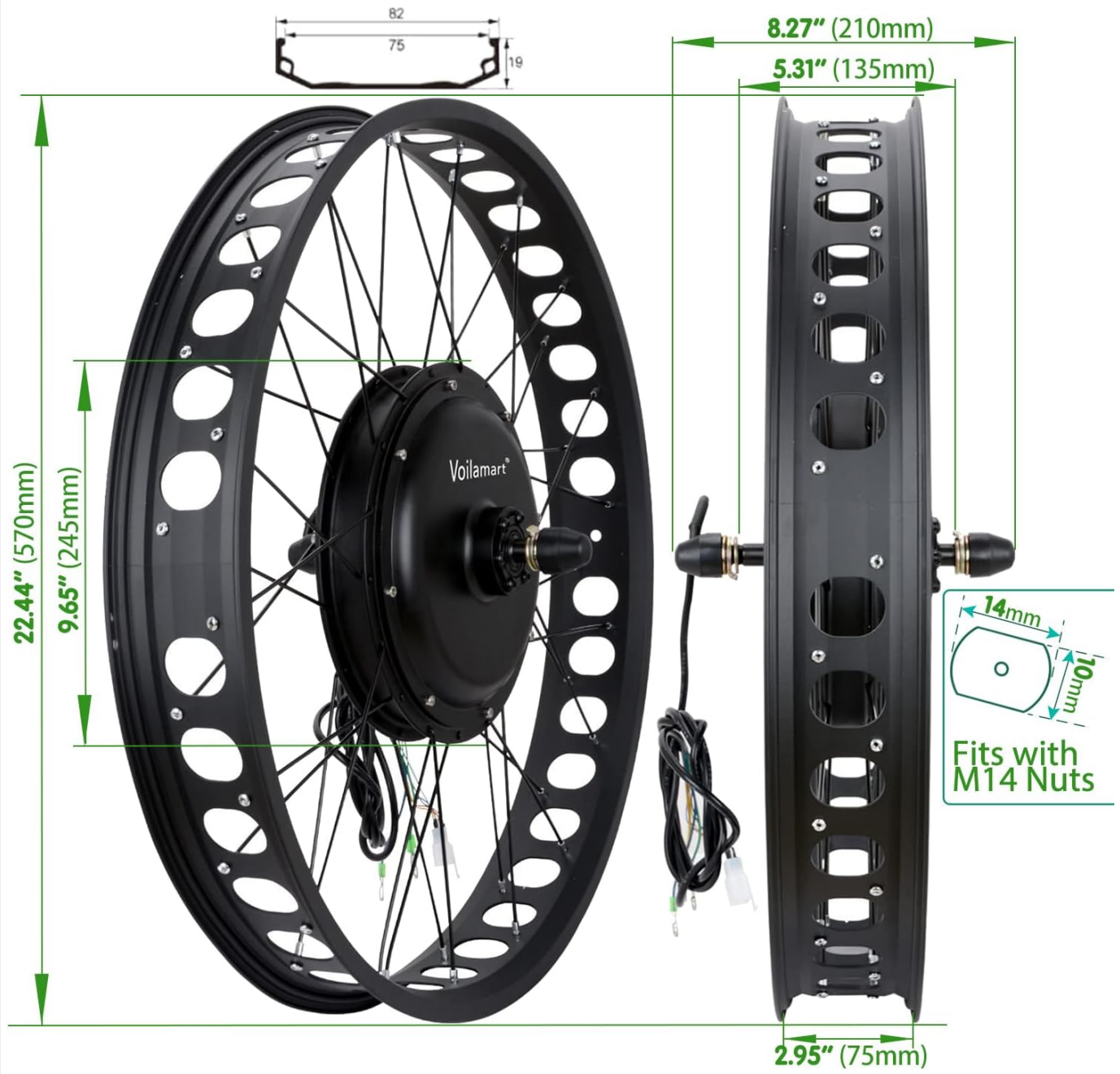


Image: Detailed diagram showing the dimensions of the Voilamart 26x4.0 front hub motor wheel, including wheel diameter, rim width, and dropout measurements.

9. Warranty and Support

Warranty: This Voilamart product comes with a 6-month warranty. The warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase.

Support: For any issues, questions, or warranty claims, please contact Voilamart customer service. When contacting support, please provide your product model number (EBV-48V2000WFCTW), a detailed description of the issue, and any relevant photos or error codes displayed on the LCD monitor. This will help us assist you more efficiently.
Voilamart customer service is available 7 days a week, 24 hours a day.

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