Voilamart EBK-26I48V1KWFC

Voilamart 48V 1000W 26-inch Front Wheel Electric Bicycle Conversion Kit with LCD Display User Manual

Model: EBK-26I48V1KWFC

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Voilamart 48V 1000W 26-inch Front Wheel Electric Bicycle Conversion Kit. This kit is designed to transform a standard 26-inch pedal bicycle into an electric bicycle (e-bike).

The kit features a powerful brushless gearless hub motor, operating efficiently and quietly. It supports a maximum speed of 28 mph (45 km/h) and is compatible with 26-inch bicycles that have a 3.94-inch (100mm) front fork dropout spacing.

The Pedal Assist System (PAS) allows for three riding modes: Throttle, Pedal Assist, and Manual, offering flexibility and comfort for various riding conditions.

2. Safety Information

Please read all safety warnings and instructions carefully before installation and use. Failure to follow these instructions may result in serious injury or property damage.

- **Helmet Use:** Always wear a certified helmet when riding your e-bike.
- **Brake Function:** Ensure all brakes are properly installed and functioning before each ride. The brake levers include a motor power cut-off function for safety.
- **Road Legal Compliance:** By default, the kit is restricted to 750W and 24 mph (38 km/h) for road-legal use. For off-road use, the 1000W full power output (28 mph / 45 km/h) can be activated by disconnecting the blue cable. Always comply with local regulations regarding e-bike power and speed limits.
- **Battery Safety:** The battery is not included with this kit. Use a compatible 48V e-bike battery and follow the battery manufacturer's safety guidelines for charging, storage, and use.
- **Installation:** If you are unsure about any installation steps, seek assistance from a qualified bicycle mechanic.
- **Weight Limit:** Do not exceed the maximum load capacity of 440 lbs (200 kg).
- **Certification:** This product is CE and EN15194 approved, ensuring safety and quality standards.

3. Package Contents

Verify that all components listed below are present and undamaged upon opening the package.



Image: All components included in the Voilamart 26-inch Front Wheel Ebike Conversion Kit.

- 1x Brushless Gearless Motor Front Wheel (26-inch)
- 1x Intelligent Motor Controller
- 1x SW900 LCD Display
- 1x Pedal Assist Crank Sensor (PAS)
- 1x Cable Ties & Plastic Coil
- 1x Pair of Handle Bars (including Twist Throttle)
- 1x Controller Bag
- 1x Pair of Brake Handles
- 1x User Manual

4. Setup and Installation

This section outlines the general steps for installing your e-bike conversion kit. Detailed instructions are provided in the included manual. Ensure your bicycle is securely mounted on a stand before beginning installation.

Your browser does not support the video tag.

Video: General installation overview for a Bafang Hub Motor Conversion Kit. This video provides a visual guide to the conversion process, including wheel and component installation.

Your browser does not support the video tag.

Video: Another perspective on hub motor kit installation. This video demonstrates the assembly of various components of a hub motor kit onto a bicycle.

4.1. Front Wheel Installation

1. Remove your bicycle's existing front wheel.
2. Install the new 26-inch brushless gearless motor front wheel into the front fork dropout (ensure 100mm spacing). Secure it properly.

4.2. Component Mounting

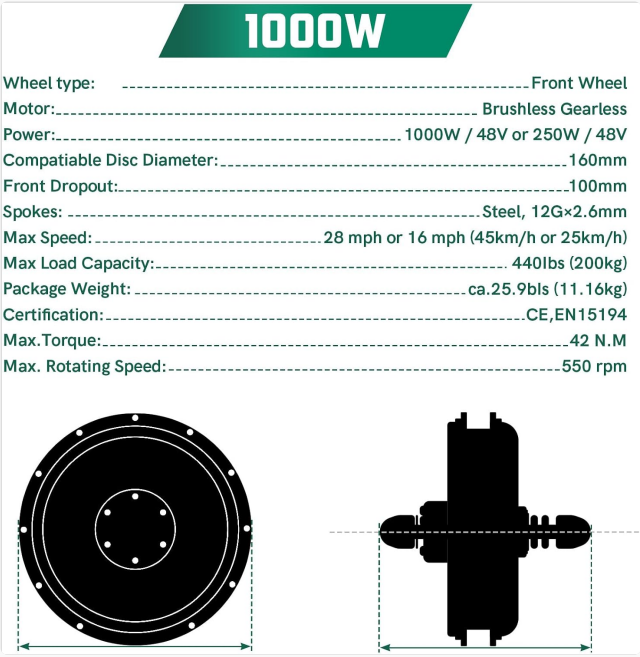


Image: Example diagram for accessory installation, showing placement of battery (optional), controller bag, LCD, twist throttle, brake handles, PAS, controller, and wiring.



Image: Detailed view of the intelligent motor controller and its connections, including LCD, PAS, brake levers, and twist throttle.

- Mount the intelligent motor controller, ideally in the provided controller bag, to a secure location on your bike frame.
- Install the twist throttle and brake handles onto your handlebars. Ensure the brake handles are positioned for comfortable and safe operation.
- Attach the SW900 LCD display to your handlebars in a visible and accessible position.
- Install the Pedal Assist Crank Sensor (PAS) on your bicycle's crank arm.

4.3. Wiring Connections

Carefully connect all wires according to the provided wiring diagram in the detailed manual. Ensure all connections are secure and waterproof where necessary.

- Connect the motor cable from the front wheel to the controller.
- Connect the LCD display, twist throttle, brake handles, and PAS sensor to the intelligent motor controller.
- Connect your 48V e-bike battery (not included) to the intelligent motor controller.
- Use the provided cable ties and plastic coil to neatly manage and protect all wiring.

4.4. Power Output Adjustment (Optional)

The kit is set to 750W by default for road-legal compliance. To switch to 1000W full power output for off-road use, locate and disconnect the designated blue cable from the controller. Reconnect the blue cable to revert to 750W mode.

5. Operating Instructions

Once installed and powered, your e-bike conversion kit offers enhanced riding capabilities.

5.1. LCD Monitor (SW900)



Image: The SW900 LCD Control Panel, showing various metrics like speed, battery level, and PAS level.

The SW900 LCD monitor provides essential riding information at a glance:

- **Riding Speed:** Displays current speed.
- **Battery Level:** Indicates remaining battery charge.
- **PAS Level:** Shows the current level of pedal assistance.
- Other information may include odometer, trip distance, and wattage output.

5.2. Riding Modes

The Pedal Assist System (PAS) allows you to choose from three distinct riding modes:

- **Throttle Mode:** Engage the twist throttle on the handlebars to control speed directly, without pedaling.
- **Pedal Assist (PAS) Mode:** The motor provides assistance as you pedal. Use the LCD display to select your desired PAS level (typically 1-5), with higher levels offering more assistance.
- **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 e-bike conversion kit.

- **General Cleaning:** Keep the motor, controller, and display clean and free from dirt and debris. Use a damp cloth; avoid high-pressure washing directly on electrical components.
- **Wiring Inspection:** Periodically check all electrical connections for tightness and signs of wear or damage. Ensure cables are securely routed and protected.
- **Tire Pressure:** Maintain correct tire pressure as recommended by the tire manufacturer.
- **Brake Check:** Regularly inspect brake pads and cables. Ensure the brake levers activate the motor cut-off function.
- **Motor Hub:** The brushless gearless motor is designed for durability. Avoid submerging the motor in water.
- **Battery Care:** Follow the battery manufacturer's instructions for charging, storage, and maintenance.

7. Troubleshooting

This section addresses common issues you might encounter with your e-bike conversion kit.

Problem	Possible Cause	Solution
Motor not engaging / No power	Low battery charge, loose electrical connections, brake lever engaged, blue cable disconnected (if expecting 1000W)	Check battery charge, ensure all connections are secure, release brake levers, check blue cable connection for desired power output.
Inconsistent pedal assist	PAS sensor misalignment or damage	Inspect PAS sensor for proper alignment and ensure it is clean.
LCD display not working	Loose connection to controller, power issue	Check LCD cable connection to the controller. Ensure battery is charged and connected.
Motor making unusual noise	Loose components, internal motor issue	Check for any loose parts. If noise persists, contact customer service.

8. Specifications

Detailed technical specifications for the Voilamart 48V 1000W 26-inch Front Wheel Electric Bicycle Conversion Kit.



Image: Close-up of the brushless gearless motor, highlighting its 1000W power, 440lbs max load, and 28mph max speed.



Image: Size information for the 26-inch front wheel, detailing front dropout (100mm), tire width (1.97 inches), and axial length (6.89 inches).



Image: A table providing key specifications for the 1000W kit, including wheel type, motor, power, max speed, and certifications.

Feature	Specification
Brand	Voilamart
Model Name	EBK-26I48V1KWFC
Bike Type	Electric Bike Conversion Kit
Motor Type	Brushless Gearless Hub Motor
Wattage	1000W (48V) / 750W (Road-legal default)
Voltage	48 Volts
Wheel Size	26 Inches
Front Dropout	3.94 inches (100mm)
Max Speed	28 mph (45 km/h) / 24 mph (38 km/h) (Road-legal)
Max Load Capacity	440 lbs (200 kg)
Electric Assist Type	PAS and Throttle
Certification	CE, EN15194
Item Weight	22 Pounds (Kit components)
Wheel Material	Aluminum
Brake Style Compatibility	Linear Pull (Levers included, compatible with Dual Disc Brake systems)

9. Warranty and Support

Voilamart is committed to providing quality products and customer satisfaction.

9.1. Warranty Information

This product comes with a 6-month warranty provided by Voilamart. Please retain your proof of purchase for warranty claims.

9.2. Customer Support

For any technical questions, assistance with assembly, or other inquiries, Voilamart offers 7x24 hour customer service.

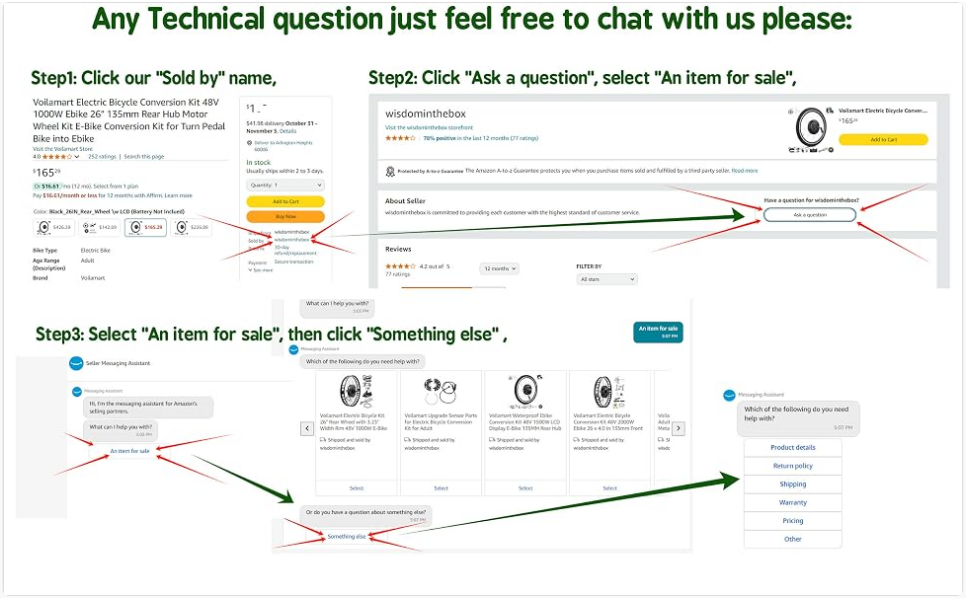


Image: Guide on how to contact the seller for technical support through the Amazon platform.

You can typically contact customer service through the platform where you purchased the product by navigating to your order history and selecting the option to contact the seller.

© 2023 Voilamart. All rights reserved.

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