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Voilamart 135mm Rear Wheel LCD

Voilamart 26IN Ebike Conversion Kit 48V 1500W User Manual

Model: 135mm Rear Wheel LCD

1. Introduction

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Voilamart 26IN Ebike Conversion Kit 48V 1500W. Please read this manual thoroughly before attempting installation or operation to ensure safe and efficient use of the product.



Image 1.1: Voilamart Electric Bicycle Conversion Kit overview.



Image 1.2: Highlighting the brushless motor's low consumption.

2. Safety Information

Always prioritize safety when installing and operating your e-bike conversion kit. Failure to follow safety guidelines can result in serious injury or damage to the product.

- Wear appropriate safety gear, including a helmet, eye protection, and gloves, during installation and riding.
- Ensure all connections are secure and waterproofed where necessary to prevent electrical shorts.
- Do not operate the kit in wet conditions unless all electrical components are properly sealed and protected.
- Regularly inspect your bike and the conversion kit for any loose parts, damaged wires, or signs of wear.
- Familiarize yourself with local regulations regarding e-bike power and speed limits. This kit can be restricted to 750W for road legality.
- Always test the brakes and throttle response in a safe, open area before riding in traffic.
- Keep children and pets away from the installation area.

3. What's Included

The Voilamart 26IN Ebike Conversion Kit includes the following components:

- 48V 1500W Hub Motor Wheel & Tubular Tire (26-inch)
- Ebike Controller & Controller Bag
- SW900 LCD Display Screen
- Twist Throttle
- Power-cut Brake Levers
- Pedal Assist System (PAS) Sensor
- 7-Speed Freewheel (for rear wheel kits)
- Wire Winding Pipe
- Nylon Cable Ties

Note: The e-bike battery is not included and must be purchased separately.



Image 3.1: All components included in the Voilamart Ebike Conversion Kit.



Image 3.2: Detailed view of kit components, including freewheel spacer.

4. Installation Guide

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

1. **Prepare Your Bike:** Remove the original rear wheel from your bicycle. Ensure your bike frame has a 135mm rear dropout spacing for compatibility.
2. **Install Hub Motor Wheel:** Fix the new hub motor wheel onto your bike's rear dropout. Ensure the motor cable is routed safely outside the wheel area. If applicable, install the 7-speed freewheel onto the hub motor.
3. **Handlebar Component Installation:** Remove the existing handlebar grips and brake levers. Install the SW900 LCD Display Meter, new e-bike brake handles (with power cut-off sensors), and the twist throttle grips onto the handlebar.
4. **PAS Sensor Installation:** Install the Pedal Assist System (PAS) sensor to the bottom bracket of your bike. Some PAS types may require removing the crank for proper installation.
5. **Controller Placement:** Securely fix the controller bag to your bike frame in a protected location.
6. **Wiring Connections:** Connect all wires between the various components (motor, LCD, throttle, brake levers, PAS) and the controller. Refer to the wiring diagram for correct connections.
7. **Battery Connection (Battery Not Included):** Connect the power cord between the controller and your separately purchased 48V e-bike battery. Verify all connections are secure before proceeding.
8. **Initial Test:** Power on the system and check if all components (motor, display, throttle, PAS) function normally.
9. **Cable Management:** Use the provided cable ties and wire winding pipe to neatly fix all wires, preventing them from interfering with riding or getting damaged.
10. **Final Controller Placement:** Place the controller inside the controller bag and secure it.



Image 4.1: Example diagram showing where each accessory is installed on a bicycle.

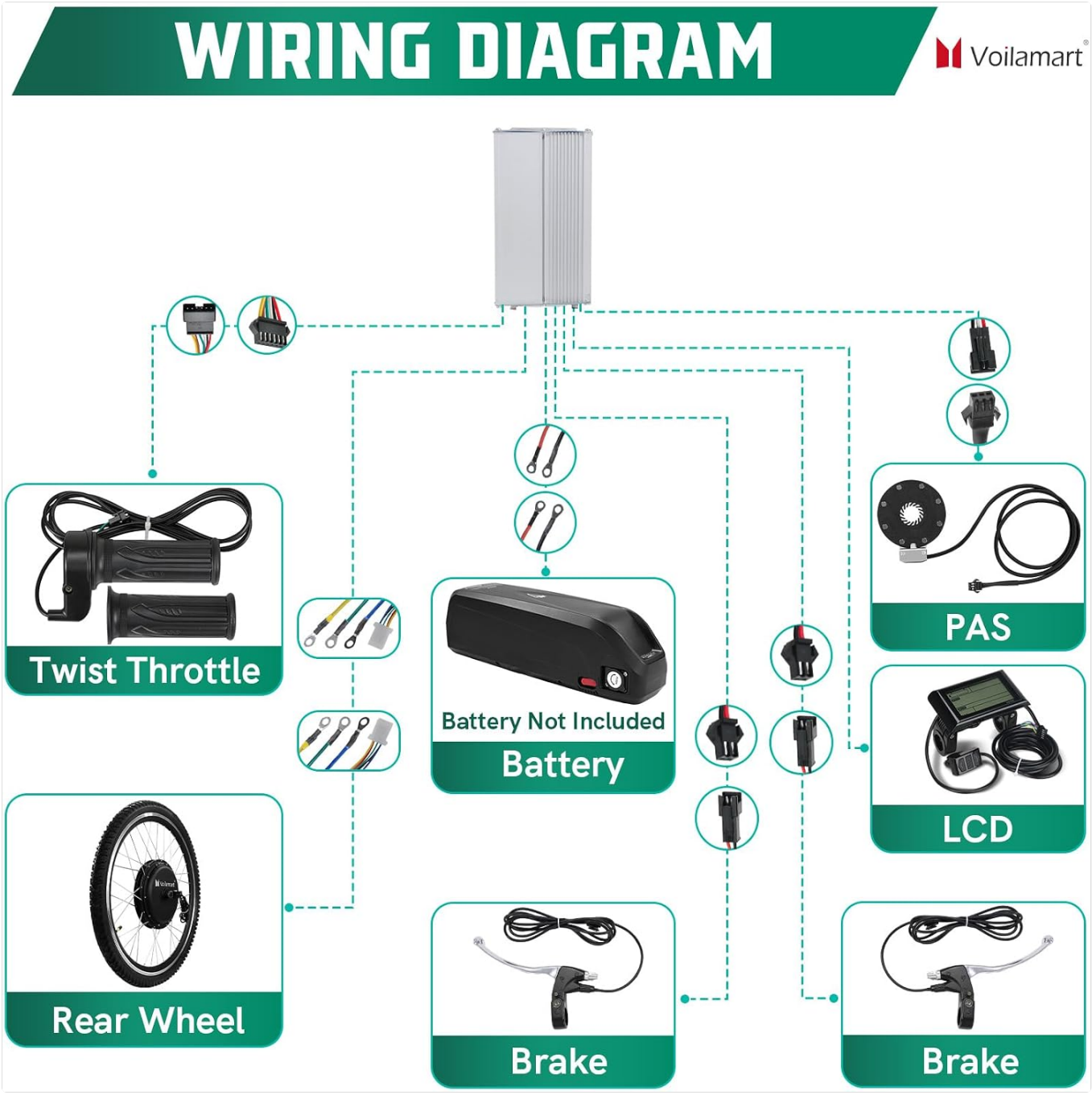


Image 4.2: Detailed wiring diagram for connecting all components to the controller.



Image 4.3: The rear hub motor wheel correctly installed on a bicycle frame.

Installation Video Guide

Your browser does not support the video tag.

Video 4.1: A detailed video guide demonstrating the installation process of the e-bike conversion kit. (Duration: 6:06)

5. Operating Instructions

This section details how to operate your e-bike conversion kit, including using the LCD display, throttle, and Pedal Assist System (PAS).

5.1 SW900 LCD Display

The SW900 LCD display provides essential riding information and allows you to control various settings.



Image 5.1: The SW900 LCD display unit, showing speed, battery, and PAS level.



Image 5.2: Features of the SW900 LCD Control Panel, including large screen, battery life indicator, odometer, speedometer, PAS level, and wattmeter.

- **Power On/Off:** Press and hold the power button on the display to turn the system on or off.
- **Information Display:** The display shows current speed, battery level, Pedal Assist System (PAS) level, odometer, trip distance, and wattage output.
- **Settings:** Use the buttons on the display to navigate through settings, adjust PAS levels, and switch between different information views. Refer to the SW900 manual for advanced settings.

5.2 Riding Modes

The kit supports three riding modes:

- **Throttle Mode:** Use the twist throttle to control motor power directly, similar to a motorcycle.
- **Pedal Assist System (PAS) Mode:** The motor provides assistance as you pedal. The level of assistance can be adjusted via the LCD display.
- **Manual Mode:** Ride the bike like a traditional bicycle without any motor assistance.

5.3 Speed Restriction (Road Legal Mode)

The kit is restricted to 750W and a maximum speed of 24mph (38km/h) by default to comply with road legal regulations in many areas. To switch to the full 1500W power output for off-road use (reaching up to 34mph or 55km/h), disconnect the blue cable from the controller. Reconnect the blue cable to revert to the restricted mode.



Image 5.3: The e-bike conversion kit is suitable for commuting.



Image 5.4: The e-bike conversion kit is suitable for outdoor riding.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your e-bike conversion kit.

- **Cleanliness:** Keep the motor, controller, and display clean. Use a damp cloth to wipe surfaces; avoid direct water spray on electrical components.
- **Connections:** Periodically check all electrical connections for tightness and corrosion. Ensure waterproof connections remain sealed.
- **Tire Pressure:** Maintain correct tire pressure as specified on the tire sidewall.
- **Brakes:** Inspect brake pads and rotors for wear. Ensure brake levers activate the motor cut-off function correctly.
- **Spokes:** Check spoke tension regularly, especially after initial rides, to ensure the wheel remains true.
- **Battery Care:** Follow the manufacturer's instructions for your specific e-bike battery regarding charging, storage, and

discharge cycles.

- **General Bike Maintenance:** Continue with regular bicycle maintenance, including chain lubrication, gear adjustments, and frame inspection.

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	• Battery not connected or low charge • Loose electrical connections • Brake levers engaged (motor cut-off) • Controller error	• Check battery connection and charge level. • Inspect all wiring for secure connections. • Ensure brake levers are fully disengaged. • Check LCD for error codes; consult SW900 manual.
PAS not working	• PAS sensor incorrectly installed or damaged • PAS level set to zero on LCD • Loose PAS sensor connection	• Verify PAS sensor alignment and connection. • Increase PAS level on the LCD display. • Check PAS wiring to the controller.
Throttle not responding	• Loose throttle connection • Throttle unit damaged	• Check throttle wiring to the controller. • If still unresponsive, the throttle may need replacement.
Motor making unusual noise	• Loose spokes • Internal motor issue	• Check and tighten spokes. • Contact customer support if noise persists.

8. Specifications

Technical specifications for the Voilamart 26IN Ebike Conversion Kit 48V 1500W.

Feature	Detail
Model Name	135mm Rear Wheel LCD
Motor Type	Brushless Gearless Hub Motor
Rated Power	1500W (48V) / 750W (Restricted Mode)
Max Speed	34mph (55km/h) / 24mph (38km/h) Restricted
Max Torque	65 N.m
Max Rotational Speed	850 rpm
Wheel Size	26 Inches
Rear Dropout Spacing	135mm

Feature	Detail
Max Load Capacity	551 lbs (250 kg)
Brake Style Compatibility	Caliper, Cantilever, Disc, Linear Pull (6-bolt braking disc, 44mm diagonal hole distance)
Included Display	SW900 LCD Display Screen
Certification	CE, EN15194 approved
Item Weight	13.5 Kilograms (approx. 29.7 lbs)

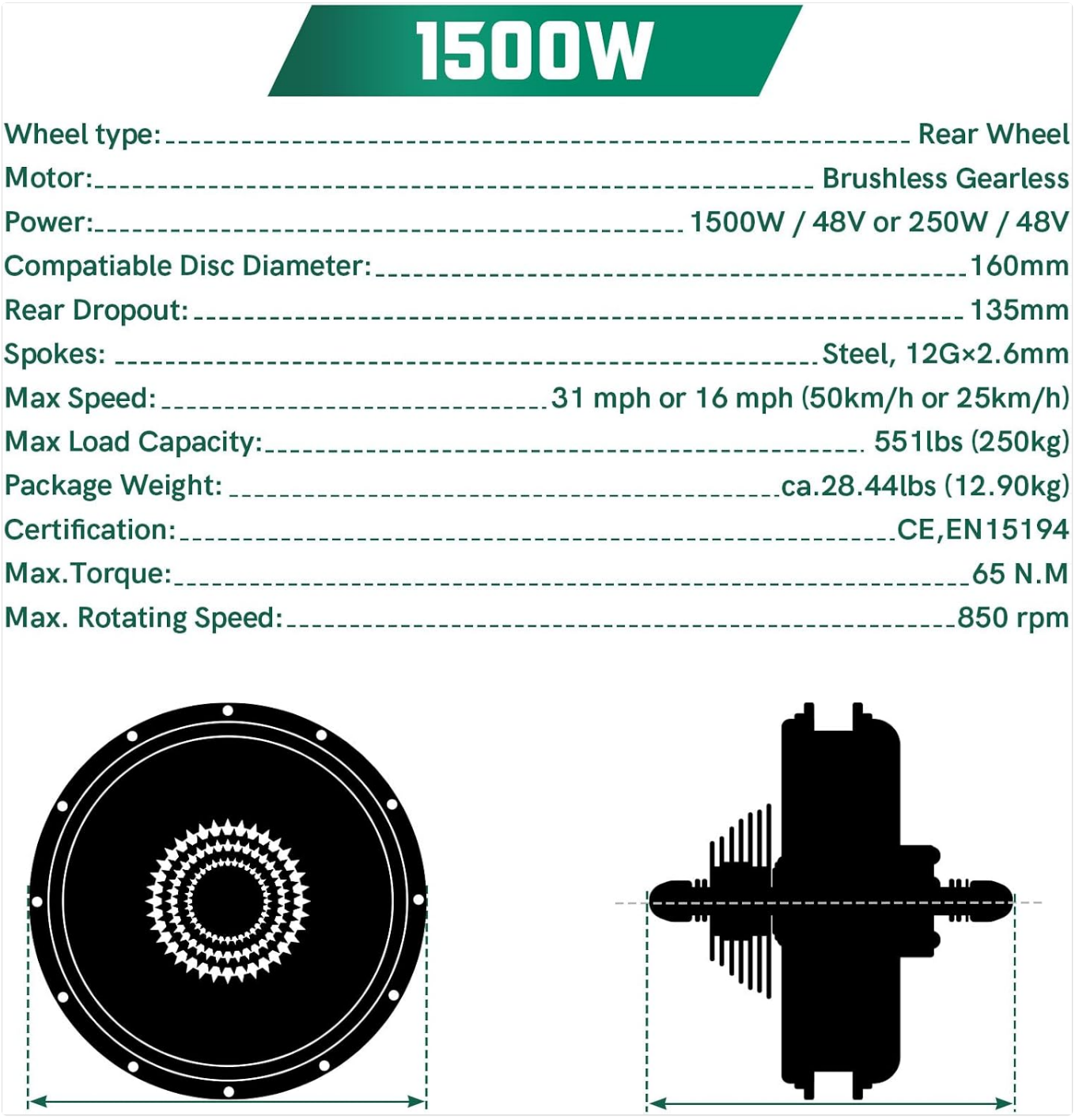


Image 8.1: Visual representation of key specifications for the conversion kit.



Image 8.2: Detailed view of the 1500W brushless gearless motor, highlighting its internal structure and performance metrics.

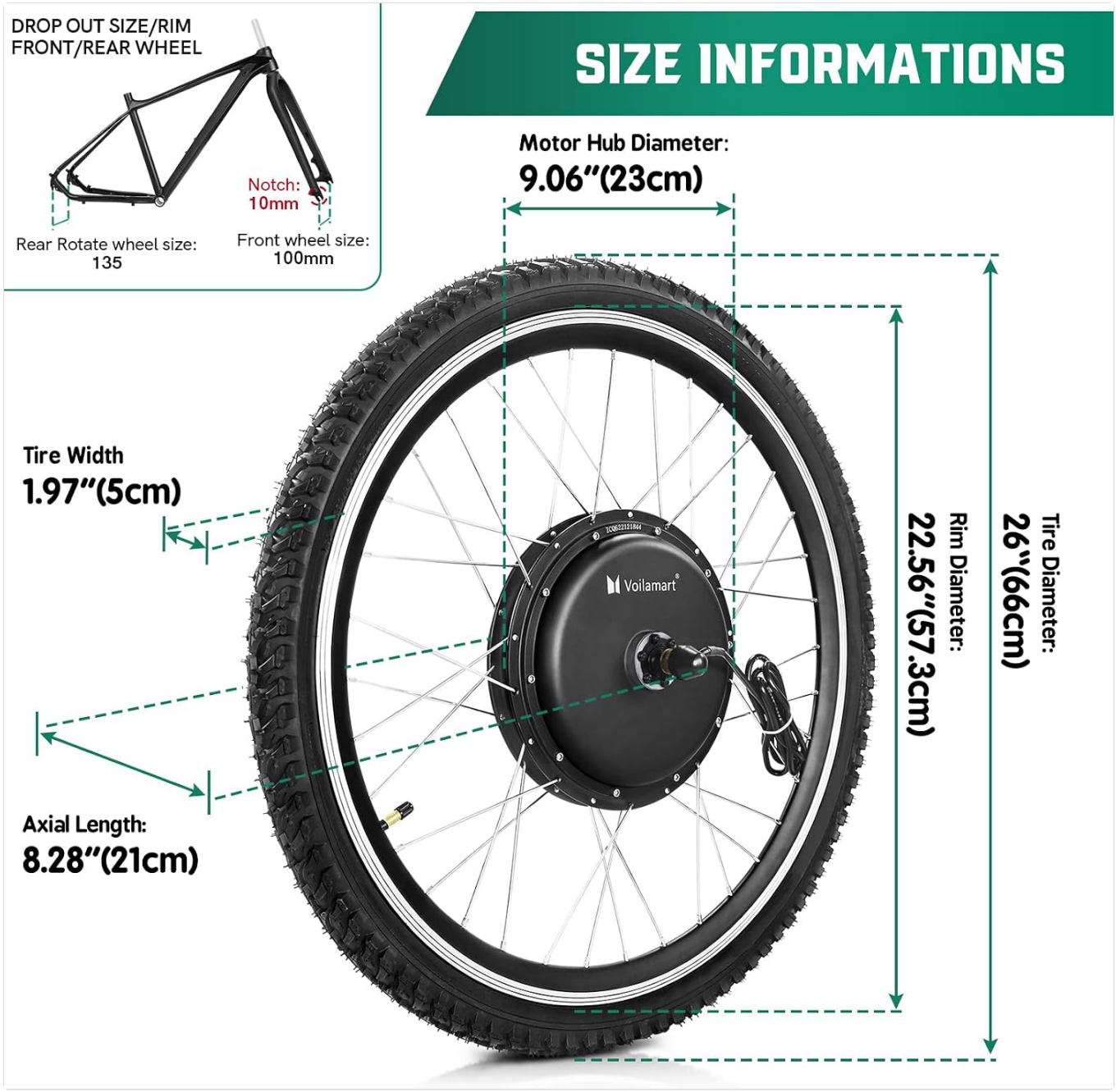


Image 8.3: Diagram illustrating the dimensions of the 26-inch wheel, including tire width, rim diameter, and axial length.



Image 8.4: Diagram showing the motor hub diameter and compatibility with 6-bolt braking discs (44mm diagonal hole distance).

9. Warranty and Support

9.1 Warranty Information

The Voilamart 26IN Ebike Conversion Kit comes with a **6 Months Warranty** provided by Voilamart. This warranty covers manufacturing defects and material flaws under normal use. Please retain your proof of purchase for warranty claims.
The warranty does not cover:

- Damage caused by improper installation or assembly.
- Damage due to misuse, neglect, accidents, or unauthorized modifications.
- Normal wear and tear of components.
- Damage from external factors such as extreme weather or road conditions.

9.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact Voilamart customer service. Detailed assembly instructions and video support are available to assist you. Voilamart offers 7x24H customer service.
Please have your product model number (135mm Rear Wheel LCD) and purchase details ready when contacting support.

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