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Bonnlo 1000W(Front)

Bonnlo PEXMOR 48V 1000W 26-inch Front Wheel Electric Bike Conversion Kit Instruction Manual

Model: 1000W(Front)

1. Product Overview

This manual provides detailed instructions for the installation, operation, and maintenance of your Bonnlo PEXMOR 48V 1000W 26-inch Front Wheel Electric Bike Conversion Kit. This kit is designed to transform a standard 26-inch bicycle into an electric bicycle, offering enhanced power and riding modes.

Key Features:

- **Powerful Brushless Motor:** Features a 48V 1000W brushless hub motor for efficient and quiet operation, reaching speeds up to 36 mph (58 km/h). Compatible with 26-inch bicycle frames with 100mm/3.93" front dropout spacing.
- **Pedal Assist System (PAS):** Offers three riding modes: Throttle, PAS, and Manual, allowing for versatile riding experiences and reduced fatigue on long trips.
- **Upgrade 3 Modes Controller:** Motor operates under both Hall effect and non-Hall effect, extending the life of the electric bicycle. The controller is a sine wave type, known for high efficiency and low noise.
- **Safe & Durable Design:** Includes brake levers that cut power during braking for safety and energy conservation. CE certification ensures quality. A 'Torque Arm' is included for stable motor wheel operation. The aluminum alloy frame supports up to 220 lbs.
- **Easy Control & Installation:** Equipped with a twist throttle with battery indicator for convenient speed control and battery monitoring. Installation tools and detailed instructions are provided.

2. Setup and Installation

2.1 Unpacking and Component Overview

Carefully unpack all components from the box. Verify that all parts listed in the packing list are present and undamaged before proceeding with installation.



Figure 2.1: All components of the Bonnlo PEXMOR Electric Bike Conversion Kit, including the hub motor wheel, controller, throttle, brake levers, and accessories.



Figure 2.2: Diagram illustrating the complete conversion kit contents, including hub motor wheel, pedal assist sensor, twist throttle with battery display, cable ties, brake levers, controller, controller bag, spoke key, torque arm, extension & transfer cables, and user manual.

Battery is not included.

2.2 Pre-installation Preparation and Checks

Before beginning installation, ensure you have the necessary tools and understand the process. The following video demonstrates initial preparation steps.

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Video 2.1: Step 1 - Pre-installation Preparation and Checks. This video guides you through unpacking the kit and identifying all components, including the motor wheel, controller, PAS sensor, throttle, and brake levers.

2.3 Motor Wheel Installation

This section covers the removal of your existing bicycle wheel and the installation of the new hub motor wheel. Ensure your bicycle's fork dropout size is compatible (100mm/3.93" for front wheel kits).



Figure 2.3: Applicable Fork Dropout Size. Front fork dropout is 3.93 inches (100mm) with a notch width of 3/8 inches (10mm). Rear fork dropout is 5.12 inches (135mm).

The following video demonstrates the process of removing the original wheel and installing the motor wheel.

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Video 2.2: Step 2 - Removal and Replacement of Motor Wheel. This video details how to remove the existing bicycle wheel, transfer components like the disc brake and freewheel, and install the new hub motor wheel.

2.4 PAS Sensor Installation

The Pedal Assist System (PAS) sensor is crucial for enabling pedal-assisted riding. Install it carefully according to the instructions.

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Video 2.3: Installation and Precaution of PAS. This video demonstrates the correct installation of the Pedal Assist System sensor, emphasizing proper orientation and ensuring a gap between the PAS and the disc.

2.5 Controller and Wiring

The controller manages the power distribution and riding modes. Ensure all connections are secure and correctly wired.



Figure 2.4: Upgrade 3 Modes Controller. This diagram shows the various connections for the controller, including phase for motor, brake lever, Hall sensor, throttle with battery indicator, headlight, negative terminal of battery, and positive terminal of battery.

Note: The kit is designed for bicycles with a freewheel gearshift. It is not compatible with cassette gearshifts.

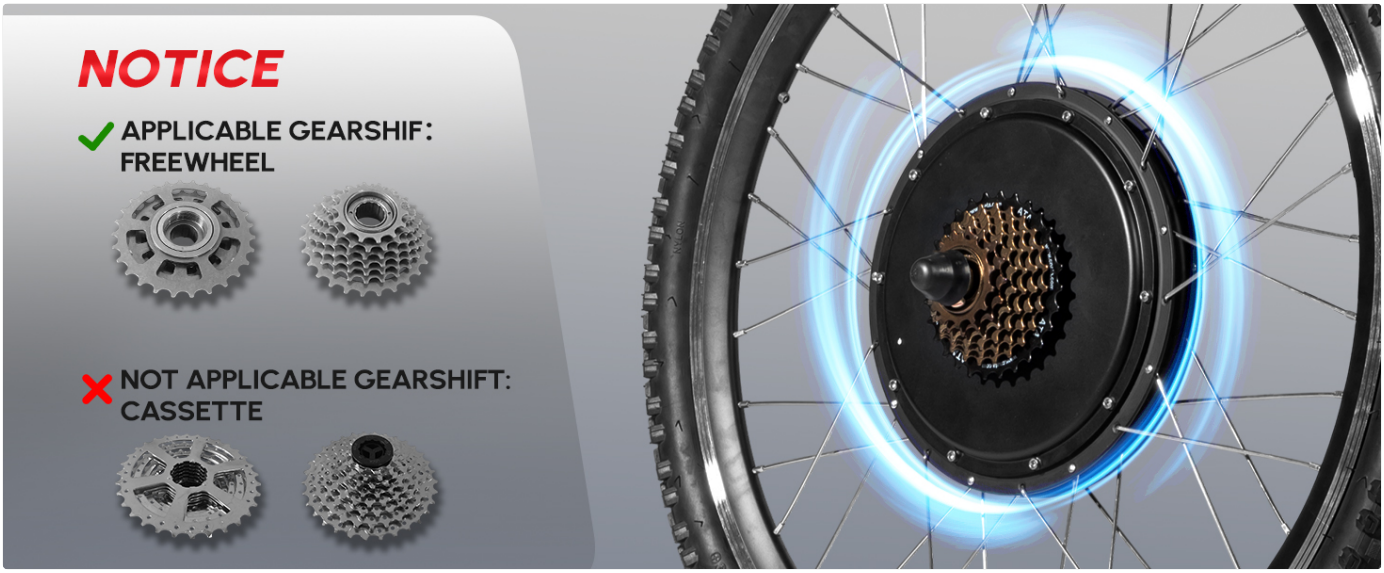


Figure 2.5: Gearshift Compatibility. The kit is compatible with freewheel gearshifts but not with cassette gearshifts.

3. Operating Instructions

3.1 Riding Modes

Your e-bike conversion kit offers three distinct riding modes:

- **Throttle Mode:** Provides power directly via the twist throttle, similar to a motorcycle.
- **Pedal Assist System (PAS) Mode:** The motor provides assistance as you pedal, making riding easier.
- **Manual Mode:** Ride the bicycle like a traditional bike without motor assistance.



Figure 3.1: Illustration of the three riding modes: Throttle, PAS (Pedal Assist System), and Manual.

3.2 Twist Throttle and Battery Indicator

The twist throttle allows for easy speed control, and the integrated battery indicator helps monitor your power levels.



Figure 3.2: Battery Display & Twist Throttle. This component allows for convenient speed control and monitoring of battery life.

3.3 Digital Display and Controls

The digital display provides essential information during your ride, such as speed, battery level, and PAS level. The following video demonstrates the display in action.

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Video 3.1: Hub Motor Kit Display. This video showcases the digital display unit, highlighting its various functions including speed, battery level, and PAS level indication during operation.

4. Maintenance

Regular maintenance ensures the longevity and safe operation of your electric bike conversion kit. While specific maintenance schedules are not provided in this manual, general guidelines include:

- **Regular Checks:** Periodically inspect all electrical connections for tightness and corrosion.
- **Tire Pressure:** Maintain recommended tire pressure for optimal performance and safety.

- **Brake System:** Ensure brake levers and pads are in good working condition. The brake levers are designed to cut motor power when engaged.
- **Cleaning:** Keep the motor, controller, and battery clean and free from dirt and moisture.
- **Chain Lubrication:** Lubricate the bicycle chain regularly to ensure smooth operation.

5. Troubleshooting

This section provides general guidance for common issues. For more complex problems, please contact customer support.

- **Motor Not Engaging:** Check all electrical connections, especially to the battery and controller. Ensure the battery is charged. Verify the PAS sensor is correctly installed and aligned.
- **Inconsistent Power:** Inspect wiring for any damage or loose connections. Check the throttle for proper function.
- **Brakes Not Functioning:** Ensure brake cables are properly tensioned and the brake levers are correctly installed to activate the motor cut-off switch.
- **Display Issues:** If the display is not showing information or is flickering, check its connection to the controller.

6. Specifications

Detailed technical specifications for the Bonnlo PEXMOR 48V 1000W Front Wheel Electric Bike Conversion Kit.

Feature	Specification
Brand	Bonnlo
Model Name	1000W(Front)
Material	Aluminum
Color	Black
Wheel Size	26 Inches
Rim Width	20 Inches
Maximum Weight Recommendation	220 Pounds
Motor Type	48V 1000W Brushless Hub Motor
Max Speed	36 mph (58 km/h)
Front Dropout Spacing	100mm / 3.93 inches
Included Components	Tool Kit

PEXMOR					
Motor	48V 1000W	48V 1000W	48V 1200W	48V 1200W	48V 1500W
Wheel Type	Front	Rear	Front	Rear	Rear
Compatible Tire Size	26"*1.95"	26"*1.95"	26"*1.95"	26"*1.95"	26"*1.95"
Motor Rotating Speed	460rpm	460rpm	470rpm	470rpm	480rpm
Motor Torque	27NM	27NM	33NM	33NM	35NM
Motor Efficiency	83.5%	83.5%	83.6%	83.6%	83.3%
Motor Net Weight	5.8KG	5.85KG	6.1KG	6.15KG	6.75KG
Weight Capacity	100KG	100KG	110KG	110KG	120KG
Climbing	8°	8°	9°	9°	9°
Recommended Battery	48V 13AH/18AH	48V 13AH/18AH	48V18AH/20AH	48V18AH/20AH	48V18AH/20AH
Compatible BMS Current	>30A	>30A	>35A	>35A	>35/40A

Figure 6.1: Motor Specifications Comparison. This table provides detailed specifications for different motor variants, including motor type, wheel type, compatible tire size, motor rotating speed, motor torque, motor efficiency, motor net weight, weight capacity, climbing angle, recommended battery, and compatible BMS current.



Figure 6.2: 48V 1000W Brushless Hub Motor. This image highlights the internal components and key specifications of the 1000W motor, including 27Nm motor torque, 1000W controller power, 4760 RPM motor rotating speed, 83.5% motor efficiency, and 8° climbing angle.

7. Warranty and Support

For warranty information, please refer to the documentation included with your purchase or contact the seller directly. The manufacturer, Bonnlo, is committed to providing quality products and support.

For technical support or any inquiries regarding your product, please contact Bonnlo customer service. Keep your purchase receipt and product model information handy for faster assistance.

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