

## BAFANG G0900 48V750W Rear Hub

# BAFANG G0900 48V 750W Rear Hub Motor Ebike Conversion Kit Instruction Manual

Brand: BAFANG | Model: G0900 48V750W Rear Hub

## 1. PRODUCT OVERVIEW

The BAFANG G0900 48V 750W Rear Hub Motor Kit is designed to convert standard bicycles into electric bikes, offering enhanced speed and torque. This kit is compatible with 26", 27.5", 700C (29er compatible) rear wheels and supports both V-brake and disc brake setups. It features a quiet, waterproof design and an intelligent Pedal Assist System (PAS) with 4 riding modes.

### Key Features:

- **Powerful Performance:** 48V 750W rear hub motor with 80N.m max torque and up to 45KM/H top speed.
- **Universal Compatibility:** Fits bikes with 135-142mm rear dropouts and 10-speed cassettes.
- **Quiet & Durable:** Operates at less than 55dB and is IPX5 waterproof.
- **Intelligent PAS:** Offers 4 riding modes for reduced fatigue.
- **Customizable Display Options:** Choose from various displays (500C, DPC18, P860ML, etc.) to monitor riding data.
- **Battery Flexibility:** Compatible with BAFANG 48V 13Ah/17.5Ah/19.2Ah/20Ah and 52V 20Ah batteries, or other compatible 48V batteries with an XT60 connector.

## 2. COMPONENT OVERVIEW AND PACKING LIST

This section details the main components of your BAFANG G0900 Rear Hub Motor Kit and the items included in the package.



**Image 2.1: Packing List.** This image displays the various components included in the BAFANG G0900 Rear Hub Motor Kit, such as the rear hub motor with wheel, optional display, controller box, controller, brake levers, thumb throttle, 1T4 cable, headlight, sticker, and plastic straps. Note that the battery is an optional purchase.



**Image 2.2: Component Diagram.** This diagram illustrates where each component of the conversion kit is typically installed on a bicycle frame, including the thumb throttle, display, brake lever, headlight, 1T4 cable, controller, controller box, pedal sensor, and rear cassette hub motor.

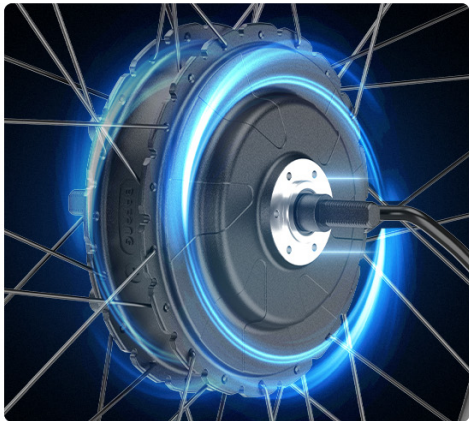
### 3. SETUP AND INSTALLATION


Follow these steps to correctly install your BAFANG G0900 Rear Hub Motor Kit. Professional installation is recommended if you are unfamiliar with bicycle mechanics.

### 3.1 Compatibility Check

Before installation, ensure your bicycle frame and wheel size are compatible with the kit.


## MOTOR SPECIFICATION






55MM  
109MM

Fit cassette flywheel





Cassette Type

● Type: Rear Hub	● Noise : <55 dB
● Rated Voltage : 48V	● Operating Temperature: -20°C ~ 45°C
● Rated Power : 750W	● Waterproof Rating :IPX5
● Maximum Torque : 80N.m	● Compatible Frame Spacing: 135-142MM
● Max Load Speed (26"): 45KM/h	● Controller Max Current :22A
● No-load Current : ≤2.5A	● Controller Rated Current :11A
● Rated Current : ≤22A	● Controller Rated Voltage: 48V
● Wheel Diameter : 26"/27.5"/700C	● Controller Low Voltage Protection: 39 ± 1V
● Freewheel Type: Cassette	● Controller Dimensions : L109mm x W 55mm x H 34mm

**Image 3.1: Compatibility Guide.** This image provides details on wheel sizes (26", 27.5", 700C/29er), dropout width (135-142mm), brake types (V-brake & Disc Brake), and suitable tire widths (1.5"-2.4"). It also highlights compatibility with cassette flywheels.

### 3.2 Motor Specifications

Understand the technical specifications of your hub motor.

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## 48V 750W REAR HUB MOTOR



80N.m  
Max Torque



45KM/H  
Top Speed



V Brake  
Brake



IPX5  
Waterproof

**Image 3.2: Motor Specifications.** This graphic details the G0900 rear hub motor's specifications, including 48V rated voltage, 750W rated power, 80N.m maximum torque, 45KM/H max load speed, IPX5 waterproof rating, and compatibility with 135-142mm frame spacing.

### 3.3 Installation Process

Refer to the following video for a visual guide on installing the BAFANG Hub Motor Conversion Kit.

**Video 3.1: Hub Motor Kit Installation.** This video provides a step-by-step guide on how to install the BAFANG hub motor kit onto a bicycle, covering the main components and their placement.

Another helpful video demonstrating the installation process for a BAFANG Hub Motor Conversion Kit:

**Video 3.2: Bafang Hub Motor Conversion Kit Overview.** This video showcases the BAFANG hub motor conversion kit,



including its components and a brief demonstration of the installation process and functionality.

### 3.4 Wiring Connections

Ensure all electrical connections are made securely according to the diagram.



**Image 3.3: Connection Instruction.** This diagram illustrates the proper wiring connections for the hub motor kit, showing how the display, brake sensors/levers, throttle, PAS sensor, battery, headlight, and wheel hub motor connect to the controller and controller box.

## 4. OPERATING INSTRUCTIONS

Once installed, your ebike is ready for operation. Familiarize yourself with the display and riding modes.

### 4.1 Display Options and Functions

The kit supports various display models, each offering different features for monitoring your ride.



**Image 4.1: DPC18 Display.** This image highlights the features and dimensions of the DPC18 display, including its 3.5" LCD screen, USB port, and various parameters like speed limit, voltage, and PAS levels.



**Image 4.2: EKD01 Display.** This image details the EKD01 display, featuring a 2.4" TFT-LCD screen, USB Type-C port, and options for speed limit, voltage, and PAS levels, along with Bluetooth connectivity.



**Image 4.3: 500C Display.** This image presents the 500C display, which includes a 2.2" IPS screen, adjustable brightness, and monitoring for speed, voltage, and PAS levels.



**Image 4.4: DZ40 Display.** This image shows the DZ40 display, a compact unit with a 1.9" LCD screen, displaying speed, voltage, and PAS levels. It is IP65 waterproof.

## 4.2 Riding Modes

- **Pedal Assist System (PAS):** Provides motor assistance based on your pedaling input. Adjust the assist level via the display.
- **Throttle Mode:** Allows for motor-only propulsion without pedaling, controlled by the thumb throttle.
- **Walk Assist Mode:** Provides low-speed assistance for pushing the bike, useful for inclines or walking alongside.

## 5. BATTERY INFORMATION

The BAFANG G0900 hub motor is compatible with various 48V and 52V batteries. Ensure your chosen battery has an XT60 connector for compatibility.



**Image 5.1: Battery Parameters (Shark Battery).** This image displays specifications for 48V 13Ah and 48V 17.5Ah Shark batteries, including Watt-hours, battery cells, BMS, charge voltage, size, weight, USB port availability, cycle life, and protection functions.



**Image 5.2: Additional Battery Parameters.** This image provides specifications for 48V 19.2Ah Shark, 48V 20Ah VoltzX, and 48V 17.5Ah Rear Rack batteries, detailing their Watt-hours, battery cells, BMS, charge voltage, size, weight, USB port availability, cycle life, and protection functions.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your BAFANG ebike conversion kit.

- **Battery Care:** Charge the battery regularly, even when not in use, to maintain its health. Avoid fully discharging the battery. Store in a cool, dry place.
- **Motor Inspection:** Periodically check the motor for any loose connections, unusual noises, or physical damage. Keep the motor clean from dirt and debris.
- **Cable Management:** Ensure all cables are securely fastened and not rubbing against moving parts or sharp edges. Replace any frayed or damaged cables immediately.
- **Brake System:** Regularly inspect brake levers and cables/hoses. Ensure the motor inhibitor sensors are functioning correctly to cut power when brakes are applied.
- **General Bicycle Maintenance:** Continue with standard bicycle maintenance, including tire pressure checks, chain lubrication, and gear adjustments.

## 7. TROUBLESHOOTING

If you encounter issues with your BAFANG ebike kit, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
Motor not assisting	Loose cable connection, low battery, PAS sensor issue, brake lever engaged.	Check all connections, charge battery, inspect PAS sensor, ensure brake levers are not stuck.
Display not turning on	Loose power cable, battery off/low, damaged display.	Check display power cable, ensure battery is on and charged, contact support if damaged.
Reduced range/power	Undercharged battery, aging battery, incorrect PAS level.	Fully charge battery, consider battery replacement if old, adjust PAS level.
Unusual motor noise	Loose motor mounting, internal motor issue.	Check motor mounting bolts, contact support for internal issues.

For specific error codes displayed on your unit, consult the display's individual user manual or contact BAFANG customer support.

## 8. SPECIFICATIONS

Detailed technical specifications for the BAFANG G0900 48V 750W Rear Hub Motor Kit.

Specification	Detail
Brand	BAFANG
Model Number	US JJ G0900 48V750W Rear Hub DZ
Motor Type	Rear Hub Motor
Rated Voltage	48 Volts
Rated Power	750 Watts
Max Torque	80 N.m
Max Speed	45 KM/H (28 Miles per Hour)
Noise Level	< 55 dB
Waterproof Rating	IPX5
Compatible Wheel Sizes	26", 27.5", 700C (29er Compatible)
Rear Dropout Spacing	135-142mm
Brake Compatibility	V-brake / Disc Brake
Freewheel Type	Cassette
Operating Temperature	-20°C ~ 45°C
Suggested Users	Unisex-adult
Color	Black

## 9. WARRANTY AND SUPPORT

BAFANG stands behind the quality of its products. Please review the warranty information below.

- **Warranty Period:** 30 days for returns, 365 days for repair or replacement.
- **Contact Support:** For any technical assistance, troubleshooting beyond this manual, or warranty claims, please contact BAFANG customer service through the retailer where you purchased the kit.
- **Online Resources:** Visit the official BAFANG website or the retailer's support page for additional resources, FAQs, and updated information.

