

[Manuals.plus](#) /

› [BAFANG](#) /

› BAFANG G0900 48V 750W Rear Wheel Electric Bicycle Conversion Kit User Manual

BAFANG G0900

BAFANG G0900 48V 750W Rear Wheel Electric Bicycle Conversion Kit

User Manual



Power Your Life

1. PRODUCT OVERVIEW

The BAFANG G0900 48V 750W Rear Wheel Electric Bicycle Conversion Kit is designed to transform a standard bicycle into an electric one, providing powerful and efficient assistance for various riding conditions. This kit includes all essential components for a complete conversion.

1.1 Package Contents

Upon unboxing, verify that all components listed below are present and in good condition:

- BAFANG H640 48V 750W Rear Hub Motor with Rim and Spokes
- DPC18 Display
- Controller
- Controller Unit Box
- Brake Levers (or Brake Sensors, if specified for hydraulic brakes)
- Thumb Throttle
- PAS Sensor
- Motor Extension Cable
- 1T4 Cable
- Headlight
- Stickers
- Plastic Straps
- User Manual (this document)



Figure 1.1: BAFANG G0900 Electric Bicycle Conversion Kit components including the rear hub motor, display, controller, brake levers, thumb throttle, PAS sensor, and cables.

PACKING LIST



Rear Hub Motor with Wheel

1PC



Display (optional)

1PC



Controller Box

1PC



Controller

1PC



Brake Lever

1Set



Thumb Throttle

1PC



1T4 Cable

1PC



Headlight

1PC



Sticker

1PC



Plastic Straps

1PC

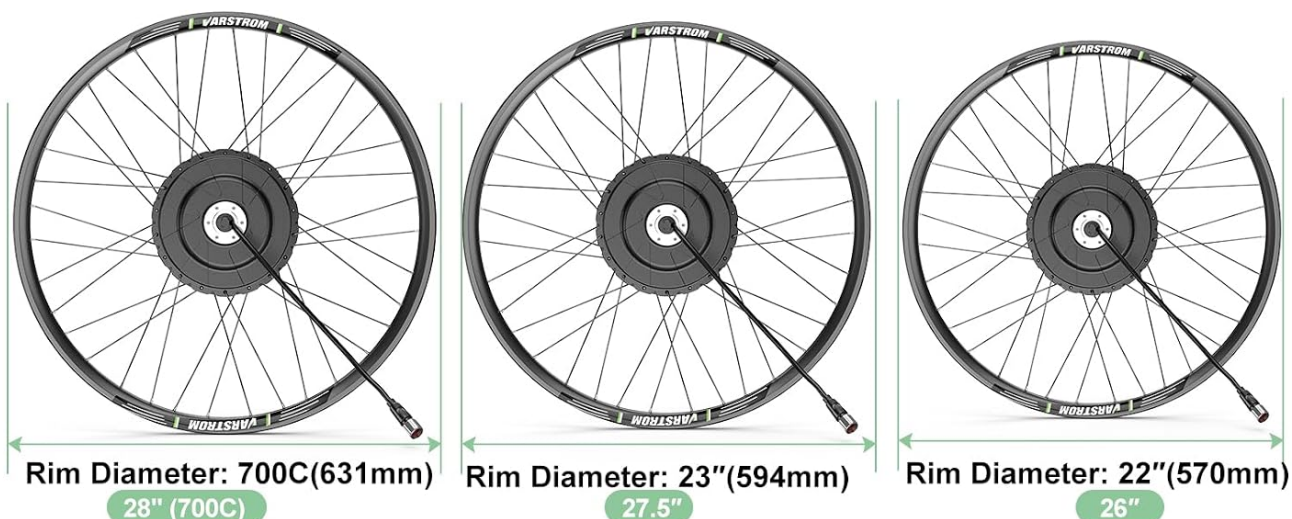
Figure 1.2: Packing list image showing all included components: Rear Hub Motor with Wheel, Display (optional), Controller Box, Controller, Brake Lever, Thumb Throttle, 1T4 Cable, Headlight, Sticker, and Plastic Straps.

2. COMPATIBILITY

Before installation, ensure your bicycle meets the following compatibility requirements:

- **Rear Dropout Width:** Your bicycle's rear dropout width must be between 135 mm and 142 mm.
- **Brake Type:** The kit is compatible with bicycles equipped with disc brakes.
- **Gear System:** Designed for bicycles with cassette-type gear systems (not freewheel). The motor supports up to 9-speed cassette systems.
- **Wheel Diameter:** The kit is available for 26", 27.5", 28", and 700C wheel diameters. Select the appropriate kit size for your bicycle.

SIZE OPTION



Rim Size	28" (700C)	27.5"	26"
Brake Type	Disc Brake		
Suitable Tyre	1.5"-2.4"		

Installation Width / OLD 138mm
(Compatible with OLD 135-142mm)



Gear Shift: Cassette



Dropout:135mm

Axle Length 200mm

Figure 2.1: Diagram showing wheel size options (26, 27.5, 28/700C) with corresponding rim diameters, suitable tire width, and dropout dimensions (135-142mm) for the rear hub motor.

3. SETUP AND INSTALLATION

This electric bicycle conversion kit is designed for straightforward assembly. Follow the instructions carefully. If you encounter any difficulties, refer to the support section for assistance.

3.1 Component Installation Overview

The following diagram illustrates the typical placement of the kit components on a bicycle:



Figure 3.1: Diagram showing the placement of the BAFANG electric bicycle conversion kit components on a bicycle, including the thumb throttle, display, brake lever, headlight, 1T4 cable, controller, controller box, pedal sensor, and rear cassette hub motor.

3.2 Key Components and Connections

Familiarize yourself with the main components and their connections:

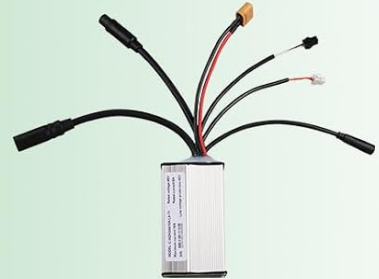
- **Controller:** The controller manages the power delivery to the motor. It has a 22A current rating, engineered for peak efficiency and optimal motor performance without excessive power consumption. Mount it securely, preferably within the provided controller box.
- **Brake Levers/Sensors:** The brake levers are included by default. If you wish to retain your existing hydraulic brakes or have an integrated brake lever and shifter, brake sensors can be provided instead. These sensors cut off motor power when brakes are applied, ensuring safety.
- **Thumb Throttle:** Install the thumb throttle on your handlebar. It provides on-demand power, enhancing comfort and control while reducing arm fatigue during extended rides.
- **PAS Sensor:** The Pedal Assist System (PAS) sensor detects your pedaling motion and provides motor assistance. There are two types:

- *Left Side PAS Sensor:* Recommended for bicycles featuring a 15mm or smaller square hole axis.
- *Right Side PAS Sensor with Big Hole:* Recommended for bicycles equipped with a hollow integrated or splined sprocket wheel.

The Left Side PAS Sensor is typically shipped by default. The Right Side PAS sensor is optional.

CONTROLLER

A 22A current rating is typically engineered for peak efficiency, ensuring optimal motor performance without excess power consumption



BREAK LEVERS OR BRAKE SENSORS



The brake lever will be included by default with your shipment. However, if you intend to retain your existing hydraulic brakes or have an integrated brake lever and shifter, you need a brake sensor instead.

THUMB THROTTLE

Ensure enhanced comfort and control, reducing arm fatigue and discomfort associated with finger operation, which is especially crucial during extended rides.



Figure 3.2: Images of the controller, brake levers/sensors, and thumb throttle components.

PAS SENSOR CONFIGURATION



Left Side PAS Sensor

For bicycles featuring a 15mm or smaller square hole axis, we recommend selecting the Left Side PAS Sensor



Right Side PAS Sensor with Big Hole

For bicycles equipped with a hollow integrated or splined sprocket wheel, we recommend the Right Side PAS Sensor with a larger hole

The Left Side PAS Sensor will be shipped by default.
Right Side PAS sensor is optional.

Figure 3.3: Diagram illustrating Left Side PAS Sensor and Right Side PAS Sensor with Big Hole configurations.

4. OPERATING INSTRUCTIONS

Once installed, the BAFANG G0900 kit provides a powerful and efficient riding experience. The DPC18 display is your primary interface for controlling and monitoring the system.

4.1 DPC18 Display Functions

The DPC18 display offers a range of features to enhance your e-bike experience:

- **Screen:** 3.5" TFT display for clear visibility.
- **Information Display:** Shows speed, battery level, trip distance, and other vital riding data.
- **Speed Limit:** Allows setting of a maximum speed limit.

- **Power Voltage & Percentage:** Displays real-time battery voltage and remaining power percentage.
- **USB Port:** Features a Type-C charging port for external devices.
- **Bluetooth:** The display supports Bluetooth connectivity for potential future features or app integration.
- **Security:** Includes options for two passwords for enhanced security.
- **Customization:** Adjustable themes and available in 8 languages.
- **Mileage Reset:** Option to reset trip mileage.

DPC18 DISPLAY



Screen : 3.5" TFT



Speed Limit : ✓



Power Voltage : ✓



Power Percentage : ✓



Handlebar Diameter :
22.2mm/ 25.4mm/ 31.8mm



USB Port:



Bluetooth:



Password :
1919



Language : English

Figure 4.1: Close-up of the DPC18 display mounted on a bicycle handlebar, showing speed, battery level, and trip information. Inset image shows the display unit and control buttons.

4.2 Riding Modes

The BAFANG G0900 kit supports multiple riding modes:

- **Pedal Assist Mode (PAS):** Provides motor assistance based on your pedaling input. The level of assistance can typically be adjusted via the display.
- **Electric Throttle Mode:** Use the thumb throttle for on-demand power without pedaling.

- **Walk Assist Mode:** Provides low-speed assistance for walking the bike, useful when pushing it uphill or through crowded areas.



BAFANG

-  **80N.m**
Max Torque
-  **45KM/H**
Top Speed
-  **IP65**
Waterproof

MOTOR SPECIFICATIONS

-  Electric Throttle Mode
-  Pedal assist mode
-  Walk Assist Mode

Figure 4.2: Diagram illustrating BAFANG hub motor specifications and icons for Electric Throttle Mode, Pedal Assist Mode, and Walk Assist Mode.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your BAFANG electric bicycle conversion kit. While the BAFANG hub motor is known for low maintenance, general e-bike care is essential.

- **Cleaning:** Keep the motor, controller, and display clean. Use a damp cloth to wipe down components. Avoid high-pressure washing directly on electrical parts.
- **Connections:** Periodically check all electrical connections for tightness and corrosion. Ensure cables are not pinched or damaged.

- **Brakes:** Ensure your bicycle's brakes are functioning correctly, as they are crucial for safety, especially with the added power of the motor.
- **Tires:** Maintain proper tire pressure for efficiency and safety.
- **General Bicycle Maintenance:** Continue with regular maintenance of your bicycle's mechanical components (chain, gears, bearings, etc.) as you would with a non-electric bike.
- **Storage:** When storing the e-bike for extended periods, especially in cold conditions, ensure the battery (if applicable, not included with this kit) is stored at a partial charge and in a temperate environment.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For complex problems, contact customer support.

- **No Power to Motor:**
 - Check all cable connections, especially the main power cable from the battery (not included) to the controller and motor.
 - Ensure the display is powered on and showing battery level.
 - Verify that brake levers are not engaged, as they cut motor power.
- **PAS Not Working:**
 - Check the PAS sensor's alignment and ensure it is securely mounted and clean.
 - Verify the PAS sensor cable connection to the controller.
- **Display Not Turning On:**
 - Check the main power connection to the display.
 - Ensure the battery (if applicable) is charged and properly connected.
- **Unusual Noises from Motor:**
 - Inspect the motor for any loose components or obstructions.
 - If noises persist, discontinue use and contact support.

7. SPECIFICATIONS

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

Feature	Specification
Rated Voltage	48 V
Rated Power	750 W
Maximum Torque	80 N.m
Position	Rear Cassette Wheel

Feature	Specification
Wheel Diameters Supported	26", 27.5", 28", 700C
Construction	Gear Drive
Efficiency	≥ 80%
Noise Level	< 55 dB
Operating Temperature	-20 to 45 °C
Max Speed (approx.)	Up to 45 km/h
Waterproof Rating	IP65
Material	Metal
Color	Black
Display Type	DPC18 (3.5" TFT)



BAFANG

-  **80N.m**
Max Torque
-  **45KM/H**
Top Speed
-  **IP65**
Waterproof

MOTOR SPECIFICATIONS

-  Electric Throttle Mode
-  Pedal assist mode
-  Walk Assist Mode

Figure 7.1: Diagram illustrating BAFANG hub motor specifications: 80 N.m Max Torque, 45 KM/H Top Speed, and IP65 Waterproof rating.

8. WARRANTY AND SUPPORT

BAFANG is committed to providing high-quality products and excellent customer service.

8.1 Warranty Information

The BAFANG G0900 Rear Wheel Motor comes with an **18-month warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

Our dedicated support team is available to assist you with any questions regarding installation, operation, or

troubleshooting. We offer local technical support in Poland and France to ensure a pleasant customer experience. For assistance, please contact us through the Amazon messaging system or refer to the contact information provided with your purchase. When contacting support, please provide your order number and a detailed description of the issue. We are also open to customizing orders to meet specific needs. Clear communication is key to ensuring your satisfaction.

© 2024 BAFANG. All rights reserved.
This manual is subject to change without notice.

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