

BAFANG G062

BAFANG G062 48V 750W Fat Tire Ebike Conversion Kit User Manual

Model: G062 | Brand: BAFANG

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BAFANG G062 48V 750W Fat Tire Ebike Conversion Kit. Please read this manual thoroughly before installation and use to ensure safe and correct operation.

2. PACKAGE CONTENTS

Before beginning installation, please verify that all components listed below are present and undamaged:

- Rear rim with BAFANG G062 48V 750W motor
- Display unit
- PAS (Pedal Assist System) sensor
- Thumb throttle
- Brake levers (cut-off sensored)
- Headlight
- Controller + Bag
- Wiring harness
- Mounting hardware
- User manual
- Battery (if selected)
- Cut-off Sensor Cables (if selected, for hydraulic brakes)

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Video: Unboxing and Installation Guide for the 20 Inch Fat Tire Ebike Conversion Kit. This video demonstrates the contents of the kit and provides a visual guide for the installation process.

3. SETUP AND INSTALLATION

3.1 Pre-Installation Checks

- **Hub Spacing:** Ensure your bicycle frame has a rear dropout spacing (Over-Lock-nut Dimension/O.L.D.) of 170-175 mm. The motor hub is 175 mm.
- **Tire Compatibility:** This kit requires a 20 × 4" tire (not included).
- **Sprocket Compatibility:** Compatible with cassette sprockets (not included).
- **Brake System:** Only works with disc brakes; rim brakes are not supported.

Please measure the rear dropout size of your bike as below

Rear dropout:

A:135mm(Standard Bike)

B:150-155mm(Standard Bike)

C:170mm-175mm(Fat Bike)

D:190mm(Fat Bike)

E:Other special



Image: Guide for measuring the rear dropout size of your bike frame. Ensure your frame's dropout is 170-175mm for fat bikes.

MOTOR DATA

Core Data

Position	Rear Motor
Wheel Diameter (Inch)	20"
Construction	Gear drive
n0 (Rpm)	420
Rated Power (W)	750
nT(Rpm)	370
Max Torque	80 N.m
Efficiency (%)	≥ 80
Color	Black
Weight (kg)	4.6
Noise Grade (dB)	<55
Operating Temperature	-20 - 45°C

Cassette Type



Fit Cassette Rear Flywheel



Installation Width/OLD
175mm

Mounting Parameters

Brake	Disc Brake
Installation Widths (mm / OLD)	170-175
Max. Housing Diameter (mm)	158.5
Cabling Route	Through Shaft, Left
Cable Length(mm), Connection	530 G10.3.5
Type	
Gearshift	Cassette
Spoke Specification	36H*12G



Tests & Certifications

Certifications	ROHS / CE
Salt Spray Test Standard(h)	96



Climbing 45°



Fast Response



Powerful



Balance Noise

Image: Detailed motor data including position (Rear Motor), wheel diameter (20"), rated power (750W), max torque (80 N.m), and installation width (175mm O.L.D.).

3.2 Handlebar Component Installation

1. Remove existing handlebar grips and brake levers.
2. Install the new cut-off sensed brake levers. If your bike has hydraulic brakes, use the provided cut-off sensor cables instead of replacing the entire lever.
3. Mount the thumb throttle next to the right brake lever.
4. Secure the display unit onto the handlebar in a comfortable viewing position.

3.3 PAS Sensor Installation

1. Remove the left crank arm from the bottom bracket.
2. Install the PAS sensor onto the bottom bracket spindle.
3. Reattach the left crank arm, ensuring it is securely tightened.

3.4 Rear Wheel Assembly

1. Remove the existing rear wheel from your bike.

2. Remove the freewheel from your existing wheel.
3. Install your disc rotor onto the BAFANG motor hub.
4. Attach your cassette sprocket (freewheel) onto the motor hub.
5. Install the 20 × 4" inner tube and outer tire onto the motor wheel hub.

3.5 Motor Wheel and Controller Installation

1. Mount the assembled motor wheel onto the rear dropouts of your bike frame. Tighten the mounting screws securely and adjust the chain tension properly.
2. Find a suitable position on your bike frame to install the controller box. Place the controller inside its bag and secure it with straps or screws.

3.6 Wiring Connections

Refer to the wiring diagram below for all electrical connections. Ensure all connectors are aligned correctly (arrow face to arrow) and securely fastened to prevent loose connections and water ingress.

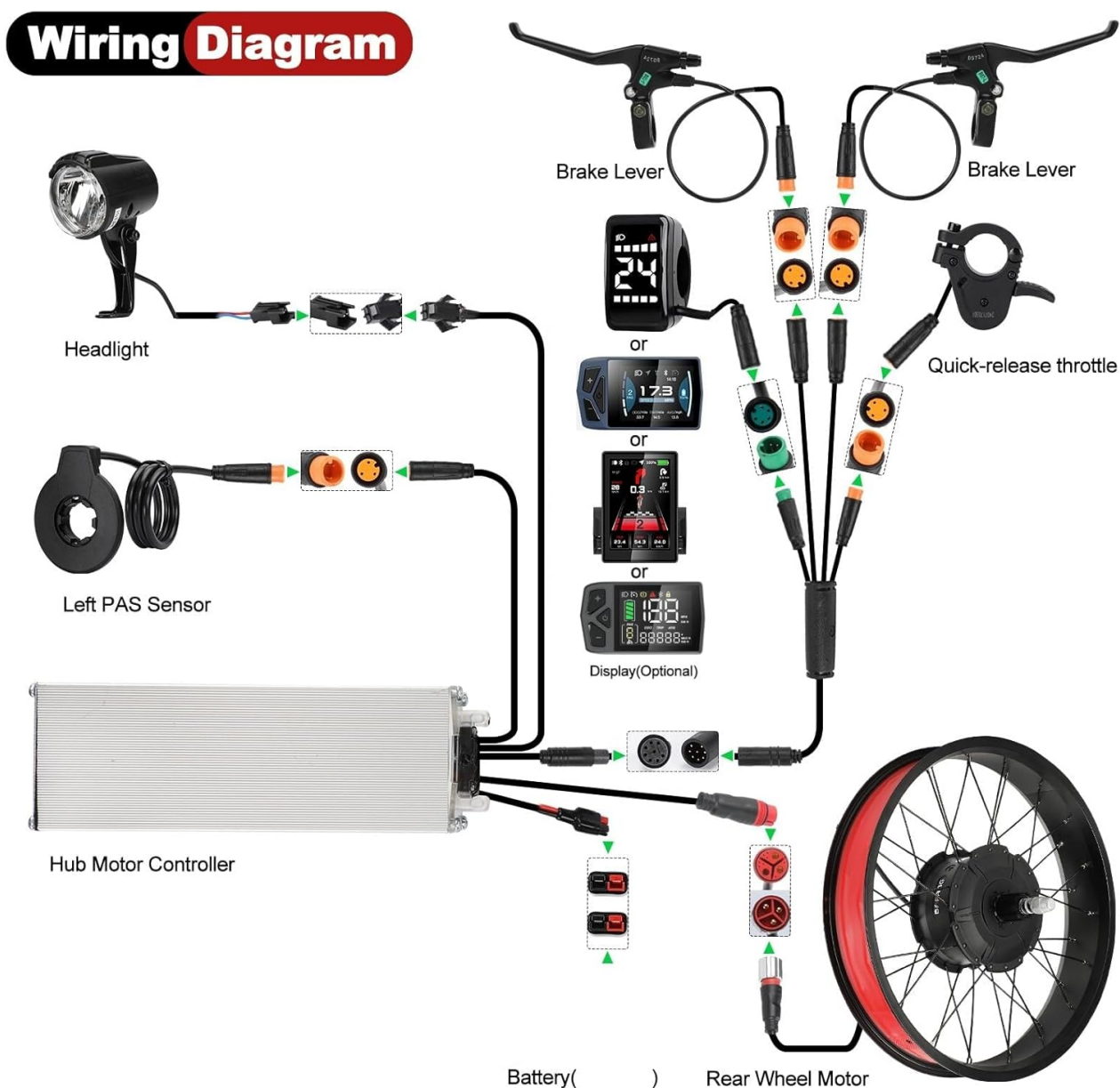


Image: Comprehensive wiring diagram illustrating connections between the hub motor controller, headlight, left-hand PAS sensor, display, brake levers, throttle, and rear wheel motor.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

To power on the system, press and hold the power button on the display unit. Repeat to power off.

4.2 Pedal Assist System (PAS)

The PAS function provides motor assistance as you pedal. Use the '+' and '-' buttons on the display to adjust the assist level (typically 0-5 or 0-9, depending on display model). Higher levels provide more assistance.

4.3 Thumb Throttle

The thumb throttle allows for on-demand power without pedaling. Gently press the throttle to engage the motor. Release to disengage. Both PAS and throttle functions can be used simultaneously or independently.

4.4 Display Functions

The display provides essential riding information:

- **Speed Indicator:** Shows current speed (KM/H or MPH).
- **Battery Value/Percent:** Indicates remaining battery charge.
- **PAS Level:** Shows the current pedal assist level.
- **TRIP/ODO:** Displays trip distance and total odometer reading.
- **Walk Assistance:** Provides low-speed assistance for walking the bike.
- **Error Code:** Alerts to system malfunctions.

Display



DZ40

Screen Type: WDT

Battery Percent: X

Pedal Level: 0-5

Screen Size: 1.6"

TRIP/ODO/AVG: X

Brightness: X

USB-C Charge: X

Mounting Size: Φ 22.2mm

Battery Voltage: X

AUTO-OFF: X

Bluetooth & APP: X

Light Sensor: X

GPS: X



L02

Screen Type: LED

Battery Percent: X

Pedal Level: 0-9

Screen Size: 2.4"

TRIP/ODO/AVG: ✓

Brightness: X

USB-C Charge: X

Mounting Size: Φ 22.2-28.6mm

Battery Voltage: X

AUTO-OFF: ✓

Bluetooth & APP: ✓

Light Sensor: X

GPS: X



B02

Screen Type: IPS

Battery Percent: ✓

Pedal Level: 0-9

Screen Size: 2.4"

TRIP/ODO/AVG: ✓

Brightness: ✓

USB-C Charge: ✓

Mounting Size: Φ 22.2-28.6mm

Battery Voltage: ✓

AUTO-OFF: ✓

Bluetooth & APP: ✓

Light Sensor: ✓

GPS: ✓



K5351

Screen Type: TFT

Battery Percent: ✓

Pedal Level: 0-9

Screen Size: 3.5"

TRIP/ODO/AVG: ✓

Brightness: ✓

USB-C Charge: ✓

Mounting Size: Φ 22.2-31.8mm

Battery Voltage: ✓

AUTO-OFF: ✓

Bluetooth & APP: X

Light Sensor: X

GPS: X



B04

Screen Type: IPS

Battery Percent: ✓

Pedal Level: 0-9

Screen Size: 3.5"

TRIP/ODO/AVG: ✓

Brightness: ✓

USB-C Charge: ✓

Mounting Size: Φ 22.2-31.8mm

Battery Voltage: ✓

AUTO-OFF: ✓

Bluetooth & APP: ✓

Light Sensor: ✓

GPS: ✓

Image: Overview of different display models (DZ40, L02, B02, K5351, B04) and their screen types, sizes, mounting sizes, and features like battery percentage, USB-C charge, Bluetooth, APP, and GPS.



Image: Close-up of a 3.5" TFT HD large screen display, highlighting speed indicator, WATT, speed value (KMH or MPH), error code, PAS level, walk assistance, trip distance, and ODO.

5. MAINTENANCE

5.1 General Care

Regularly inspect all electrical connections for tightness and signs of wear. Keep the motor, controller, and display clean and dry. Avoid high-pressure washing directly on electrical components.

5.2 Battery Recommendations

For optimal performance, a 48V 10-20Ah battery with a BMS (Battery Management System) of $\geq 30A$ is recommended. Ensure the battery is charged according to its manufacturer's instructions.

EBIKE Bike Frame Battery



BMS
Protection



Drop
Protection

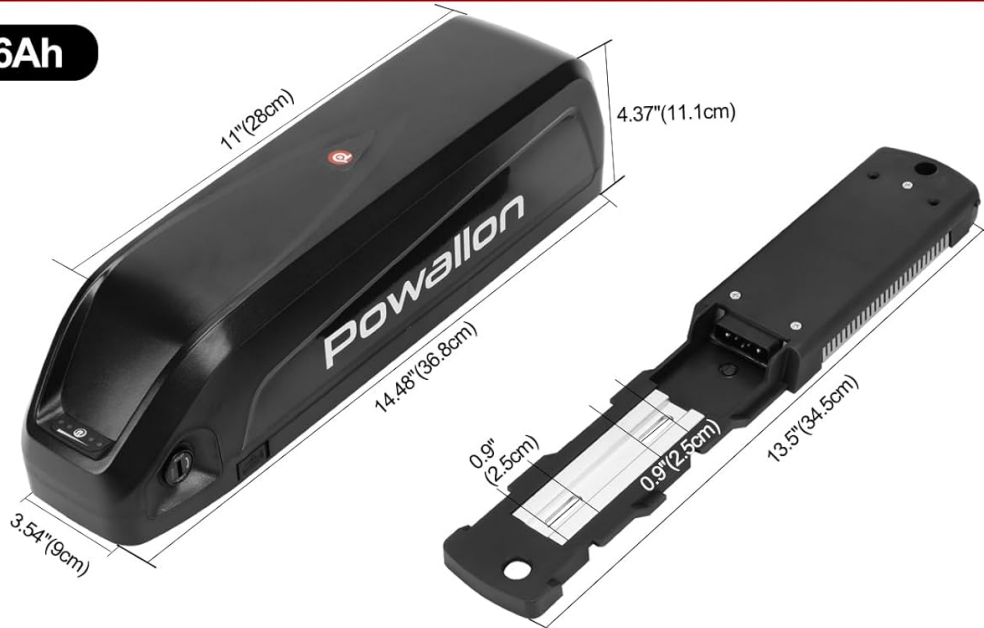


Waterproof
Dustproof



Cycle life
1000+ (time)

48V 16Ah



Matchable Motor(MAX)	Weight	BMS Current	Configuration
48V 1500W	11LBS/5KG	30A	18650 -13S5P
Capacity	Power	Charger	Full Charge Time
48V 16Ah	768Wh	54.6V/3A	6-7Hours
Apply Controller	MAX Charge Current	Max Constant Discharge Current	Peak Current Protection
54.6V (Current ≤ 30A)	5A	35A	50A

Image: Specifications for a 48V 16Ah Ebike Frame Battery, including BMS protection, drop protection, waterproof/dustproof features, 1000+ cycle life, 768Wh power, 30A BMS current, and 6-7 hours full charge time.

EBIKE Down-tube Battery



BMS
Protection



Drop
Protection

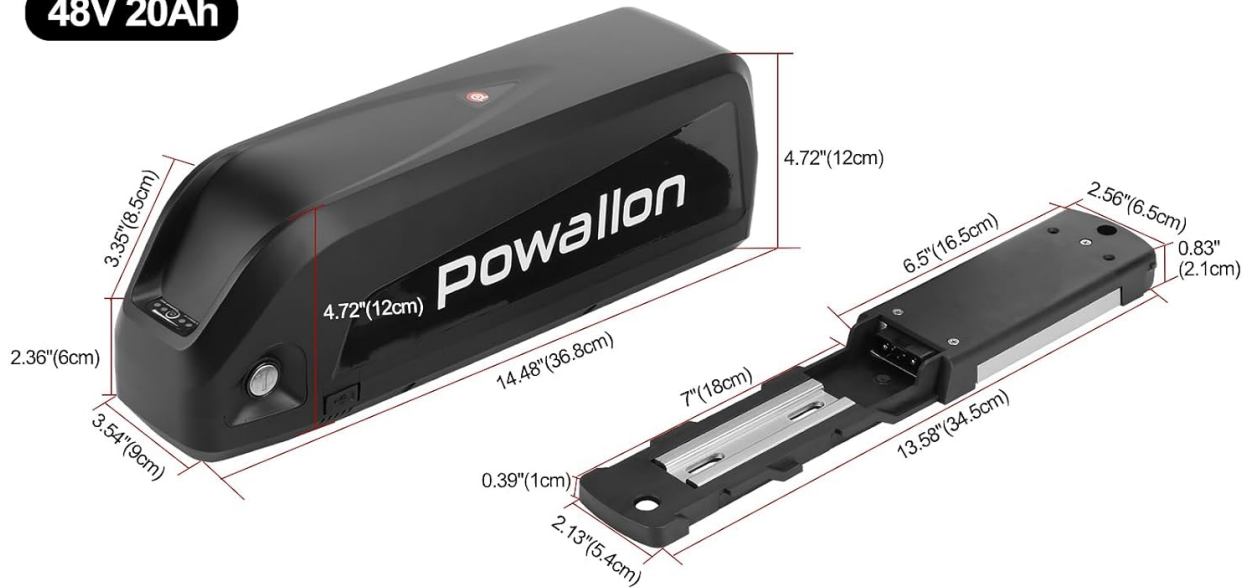


Waterproof
Dustproof



Cycle life
1000 (time)

48V 20Ah



Matchable Motor(MAX)	Weight	BMS Current	Configuration
48V 1500W	10.8LB/4.9KG	30A	21700 -13S4P
Capacity	Power	Charger	Full Charge Time
48V 20Ah	960Wh	54.6V/3A	6-7Hours
Apply Controller	MAX Charge Current	Max Constant Discharge Current	Peak Current Protection
48V (Current ≤ 30A)	5A	30A	50A

Image: Specifications for a 48V 20Ah Ebike Down-tube Battery, including BMS protection, drop protection, waterproof/dustproof features, 1000+ cycle life, 960Wh power, 30A BMS current, and 6-7 hours full charge time.

EBIKE Bike Frame Battery



BMS
Protection



Drop
Protection



Waterproof
Dustproof



Cycle life
1000 (time)

48V 20Ah



Matchable Motor(MAX)	Weight	BMS Current	Configuration
48V 1500W	11.7LB / 5.3KG	30A	21700 -13S4P
Capacity	Power	Charger	Full Charge Time
48V 20Ah	960Wh	54.6V/3A	7Hours
Apply Controller	MAX Charge Current	Max Constant Discharge Current	Peak Current Protection
48V (Current ≤ 30A)	4A	30A	60A

Image: Specifications for a 48V 20Ah Ebike Bike Frame Battery (bag type), including BMS protection, drop protection, waterproof/dustproof features, 1000+ cycle life, 960Wh power, 30A BMS current, and 7 hours full charge time.

5.3 Brake System

Regularly check the disc brakes for wear and proper function. Ensure brake levers are responsive and cables are not frayed. Adjust as necessary.

5.4 Chain

Keep the bicycle chain clean and lubricated. Periodically check for proper tension and adjust if it is too loose or too tight.

6. TROUBLESHOOTING

If you encounter issues with your ebike conversion kit, please follow these general troubleshooting steps:

- **No Power:** Check all electrical connections, especially the battery connection and main power cable.

Ensure the battery is charged.

- **Motor Not Engaging:** Verify that the display is on and showing a PAS level. Check throttle and PAS sensor connections. Ensure brake levers are not engaged, as they cut off motor power.
- **Error Codes:** Refer to your display's specific manual for interpretation of any displayed error codes.
- **Intermittent Power:** Inspect all wiring for loose connections or damage.

If problems persist, please contact customer support for further assistance.

7. SPECIFICATIONS

Feature	Specification
Motor	BAFANG G062 48V 750W (brushless geared)
Max Torque	80 N.m
Max Speed	28 mph (adjustable via display)
Hub Spacing (O.L.D.)	175 mm
Hub Type	Freehub - compatible with cassette sprocket
Compatible Tire Size	20 × 4" (not included)
Compatible Sprocket	Cassette (not included)
Brake Style	Disc (rim brake not supported)
Electric Assist Type	PAS and Throttle
Recommended Battery	48V 10-20Ah battery, BMS ≥ 30A (not included)

8. WARRANTY AND SUPPORT

8.1 Warranty Information

This BAFANG G062 Ebike Conversion Kit comes with a **1 Year Limited Warranty**. Please note that this warranty excludes the battery, if purchased separately or from a third party. For specific warranty terms and conditions, refer to your purchase documentation.

8.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact the seller or BAFANG customer support directly. Have your product model and purchase information ready when contacting support.

