

BAFANG G060.750.DC

BAFANG RM G060.750.DC Ebike Rear Motor Hub User Manual

Model: G060.750.DC

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BAFANG RM G060.750.DC 48V 750W Brushless Gear Drive Cassette Ebike Rear Motor Hub. Please read this manual thoroughly before use to ensure safe and optimal performance.

2. SAFETY INFORMATION

- Always wear appropriate safety gear when working with electrical components.
- Ensure the power is disconnected before performing any installation or maintenance.
- Do not modify the motor or controller. Unauthorized modifications can lead to malfunction and void the warranty.
- Keep children and pets away from the work area.
- Refer to a qualified technician if you are unsure about any installation steps.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 PCS * 48V 750W Rear Hub Motor
- 1 PCS * 48V 750W Motor Controller
- 1 PCS * Controller Box
- 1 PCS * Display (optional)
- 1 PCS * 1T4 Cable
- 1 PCS * Motor Extension Cable
- 1 PCS * Thumb Throttle
- 1 PCS * PAS Sensor
- 1 PCS * Headlight

- 1 Pair * Brake Lever
- 1 PCS Rim with Spokes



Figure 3.1: Overview of the BAFANG 750W Rear Hub Motor Kit components, including the motor wheel, controller, display, cables, throttle, PAS sensor, headlight, and brake levers.

4. SPECIFICATIONS

Core Data

Parameter	Value
Position	Rear Motor
Wheel Diameter (Inch)	20/26
Construction	Gear drive
Rated Voltage (DCV)	48

Parameter	Value
Rated Power (W)	750
Max Torque	80 N.m
Efficiency (%)	≥ 80
Color	Black
Weight (kg)	4.6
Noise Grade (dB)	< 55
Operating Temperature	-20 - 45°C

Mounting Parameters

Parameter	Value
Brake	Disc Brake
Installation Widths (mm / OLD)	175
Max. Housing Diameter (mm)	158.5
Cabling Route	Through Shaft, Right
Cable Length(mm), Connection Type	250 G9.1
Gearshift	Cassette
Spoke Specification	36H*12G

Further Specifications

Parameter	Value
Speed Detection Signal (Pulses/Cycle)	6
Reduction Ratio	1:5
Magnet Poles (2P)	20

Tests & Certifications

Parameter	Value
IP Rating	IP 65
Certifications	ROHS / CE
Salt Spray Test Standard (h)	96

SPECIFICATIONS

Core Data

Position	Rear Motor
Wheel Diameter (Inch)	20/26
Construction	Gear drive
Rated Voltage (DCV)	36/43/48
n0 (Rpm)	325;245
Rated Power (W)	750
nT(Rpm)	290;205
Max Torque	80N.m
Efficiency (%)	≥ 80
Color	Black/Silver
Weight (kg)	4.6
Noise Grade (dB)	< 55
Operating Temperature	-20-45°C

Mounting Parameters

Brake	Disc Brake
Installation Widths (mm / OLD)	175
Max. Housing Diameter (mm)	158.5
Cabling Route	Through shaft,Right
Cable Length(mm), Connection	250 G9.1
Type	
Gearshift	Cassette
Spoke Specification	36H*12G

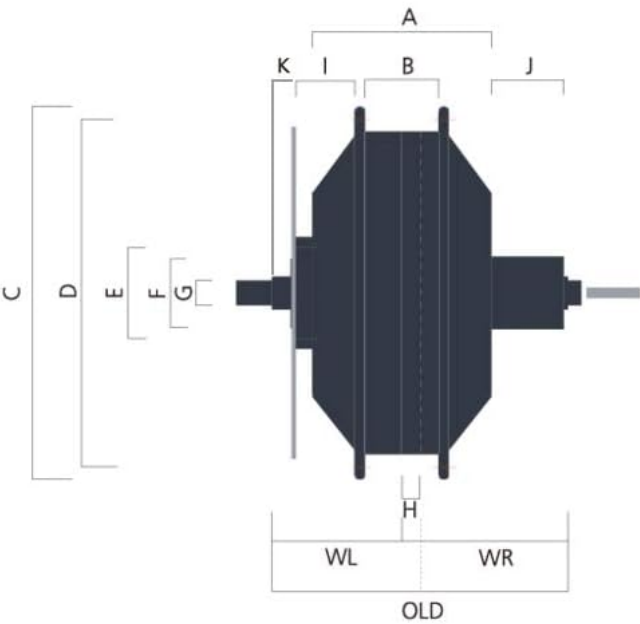
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DIMENSIONS



Dimension A	97mm
Dimension B	68mm
Dimension C	Φ 158.5mm
Dimension D	Φ 145mm
Dimension E	Φ 44mm
Dimension F	Φ 33mm
Dimension G	2-M12 x 1.25-6g
Dimension H	2.7mm
Dimension I	26.5mm
Dimension J	43.5mm
Dimension K	15.25
Dimension WL	84.6
Dimension WR	90.4mm
Dimension OLD	175mm

Figure 4.1: Technical specifications and dimensional drawing of the BAFANG G060.750.DC motor.

Wheel Size



	20"	26"
Applicable Tyre	20"x4.0"	26"x4.0"
Rims Width	80MM	80MM

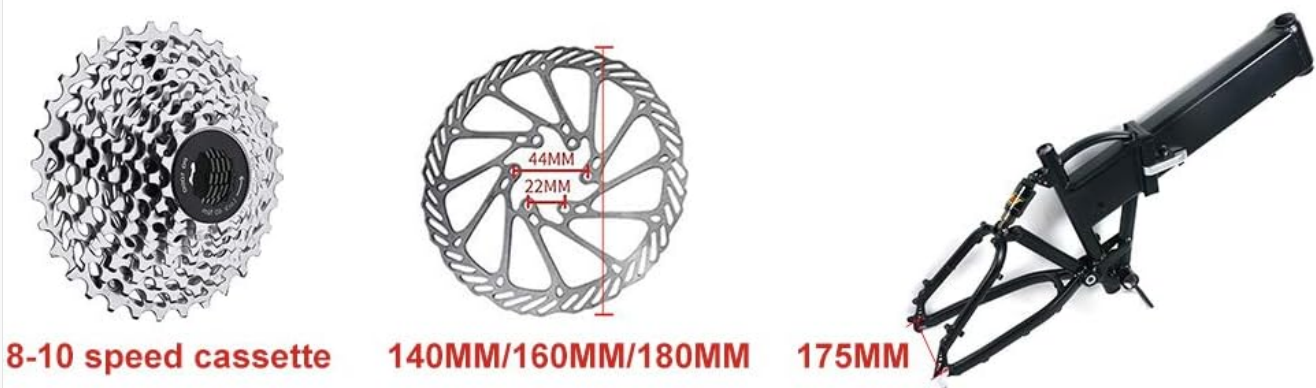


Figure 4.2: Wheel size compatibility for 20-inch and 26-inch tires, showing applicable tire sizes and rim widths. Also displays compatible cassette and disc brake rotor sizes.

5. SETUP AND INSTALLATION

This section outlines the general steps for installing the BAFANG rear hub motor kit. Professional installation is recommended.

5.1 Motor Wheel Installation

1. Ensure your bicycle's rear dropout width is 175mm to accommodate the motor.
2. Remove your existing rear wheel.
3. Install the cassette onto the motor hub.
4. Mount the disc brake rotor onto the motor hub.
5. Carefully place the BAFANG motor wheel into the rear dropouts, ensuring the axle is fully seated.
6. Secure the wheel with the provided nuts and washers.

5.2 Controller and Wiring

The controller manages the power delivery to the motor. It should be mounted in a secure, protected location, such as the provided controller box.



Figure 5.1: BAFANG motor controller with labeled connection points for battery, LED light, Double Hall Sensor, Hub Motor, and 9 Pin Cable.

1. Mount the controller box to your bike frame.
2. Connect the motor cable to the controller. Ensure the 9-pin cable is securely connected to avoid error codes.
3. Connect the battery cable to the controller.
4. Connect the display, throttle, PAS sensor, headlight, and brake levers to the 1T4 cable, then connect the 1T4 cable to the controller.



Figure 5.2: Comprehensive wiring diagram illustrating connections between the motor, controller, battery, display, throttle, PAS sensor, headlight, and brake levers.

5.3 Display Installation

Mount the display (if included) on your handlebars in a position that is easy to view while riding.

B750C COLOR DISPLAY

0-5, 1-3, 0-3, 1-9, 0-9, 1-5 Level



KM/Mile
Selection



Single
Mileage



Total
Mileage



Brightness



Auto OFF



Brake Tips



Figure 5.3: BAFANG B750C color display showing various functions like KM/Mile selection, single mileage, total mileage, brightness, auto-off, and brake tips. Also indicates compatibility with iOS and Android systems.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

To power on the system, press and hold the power button on the display. To power off, press and hold the power button again.

6.2 Pedal Assist System (PAS)

The PAS sensor detects your pedaling motion and provides motor assistance. You can typically adjust the assist level using the display controls.

6.3 Throttle Operation

The thumb throttle provides on-demand power. Gently press the throttle to engage the motor. Release to disengage.

6.4 Display Functions

The display provides real-time information and allows you to configure settings. Common functions include:

- **Speed:** Current riding speed.
- **Battery Level:** Indication of remaining battery charge.
- **Assist Level:** Adjustable power assistance levels (e.g., 0-5).
- **Mileage:** Single trip and total mileage.
- **Headlight Control:** Turn the headlight on/off.

7. MAINTENANCE

- **Regular Cleaning:** Keep the motor, controller, and connections clean and free of dirt and debris.
- **Cable Inspection:** Periodically check all cables and connectors for wear, damage, or loose connections.
- **Fastener Check:** Ensure all mounting bolts and nuts are tight, especially for the motor and controller.
- **Battery Care:** Follow the battery manufacturer's instructions for charging and storage.
- **Professional Service:** For complex issues or internal motor maintenance, consult a qualified ebike technician.


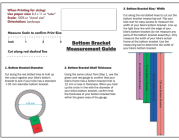




8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Motor not engaging	Low battery; Loose connections; PAS sensor issue; Brake lever sensor engaged.	Charge battery; Check all cable connections (especially the 9-pin motor cable); Inspect PAS sensor for damage/alignment; Ensure brake levers are fully released.
Display not turning on	Battery not connected; Faulty display cable; Dead battery.	Check battery connection; Inspect display cable for damage; Charge or replace battery.
Error code 09	9-pin cable connection issue.	Ensure the 9-pin motor cable is fully and securely plugged in.
Reduced power/range	Battery degradation; Incorrect assist level; Overloaded bike.	Consider battery replacement; Adjust assist level; Reduce load on bike.

9. WARRANTY AND SUPPORT

BAFANG products are designed for durability and performance. For warranty information, please refer to the specific terms provided at the time of purchase or contact your retailer. For technical support, please reach out to your authorized BAFANG dealer or the point of purchase.

Keep your purchase receipt as proof of purchase for warranty claims.

 <p>TECHNICAL SPECIFICATION RM G020.250.DC</p>	<p>Bafang RM G020.250.DC Technical Specification</p> <p>Detailed technical specifications for the Bafang RM G020.250.DC rear-drive electric bike motor, including performance parameters, dimensions, features, and warranty information.</p>
	<p>Bafang Bottom Bracket Measurement Guide for BBS02/BBSHD E-bike Mid-Drives</p> <p>Download and print this Bafang measurement guide to accurately determine your bicycle's bottom bracket diameter, shell thickness, and width. Essential for ensuring proper fitment of Bafang BBS02 (750W) and BBSHD (1000W) mid-drive motors. Includes printable template and instructions.</p>
	<p>BAFANG HD Drive System Dealer Manual</p> <p>Comprehensive dealer manual for the BAFANG HD Drive System, covering installation, technical specifications, operation, and troubleshooting for the MM G32.1000 drive unit and DP C10.UART display.</p>
	<p>Bafang Mid-Drive Ebike Programming Guide: Enhance Performance</p> <p>Learn how to reprogram your Bafang mid-drive ebike system for improved usability and performance. This comprehensive guide covers necessary hardware, software, configuration tool instructions, and detailed explanations of all settings for Bafang BBS02 and BBSHD motors.</p>
	<p>Bafang E-Bike Drive Systems Workbook 2024</p> <p>Comprehensive guide to Bafang's e-bike drive systems, including motors, gear hubs, HMLs, batteries, sensors, controllers, and accessories. Features Bafang GO+ and Bafang IOT smart connectivity solutions, and the BESST Pro service tool.</p>
	<p>BAFANG BBS01/BBS02 Mid-Drive E-bike Motor Installation Manual eMax eBikes</p> <p>Comprehensive installation manual for the BAFANG BBS01 and BBS02 mid-drive electric bike motor kits. Includes technical specifications, assembly steps, wiring diagrams, and warranty information from eMax eBikes.</p>