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## CHAOZHU M615 MM G320.1000

# Instruction Manual

## CHAOZHU 8FUN M615 MM G320.1000 1000W MID DRIVE MOTOR KIT

Model: M615 MM G320.1000

### 1. Introduction and Product Overview

The CHAOZHU 8FUN M615 MM G320.1000 Mid Drive Motor Kit is designed to convert standard bicycles into electric-assisted bikes. This high-performance 1000W motor system operates on 48V or 52V power supplies, providing significant assistance for various riding conditions, from climbing steep hills to cruising on flat roads. Key features include:

- High-performance 1000W mid-drive motor system.
- Operates on 48V/52V power supply.
- Compatible with BBS03 and BBSHD systems.
- Fits standard bottom bracket sizes from 68-73mm.
- IPX5 waterproof rating for reliable performance in various weather conditions.
- Equipped with advanced protection mechanisms against overheating, overloading, and short circuits.



Image of the 8FUN M615 MM G320.1000 mid-drive motor kit, showing the motor unit with integrated chainring and the accompanying 800S display.



Image displaying all components included in the conversion kit: the mid-drive motor, thumb throttle, various cables, sprocket, display, and lock nuts.

## 2. Setup and Installation

The installation process for the CHAOZHU mid-drive motor kit is designed to be straightforward. Ensure you have the necessary tools before beginning.

### 2.1. Compatibility Check

This kit is designed to fit bicycles with a bottom bracket width of 68mm to 73mm. The inner diameter of the bottom bracket should not be less than 33.5mm. Extra washers and bolts are provided for 73mm bottom brackets.

# How do I know if this mid drive motor fits for my bike?

This mid drive motor designed to fit bike with a 68mm (2.68inch) or 73mm (2.87inch) wide bottom bracket. The inner diameter of the bracket should be not less than 33.5mm. We will send extra washers and bolts for 73mm bottom bracket.



Diagram illustrating how to measure a bicycle's bottom bracket for compatibility, showing the motor unit fitting 68mm and 73mm wide bottom brackets with an inner diameter not less than 33.5mm.

## 2.2. Components Included

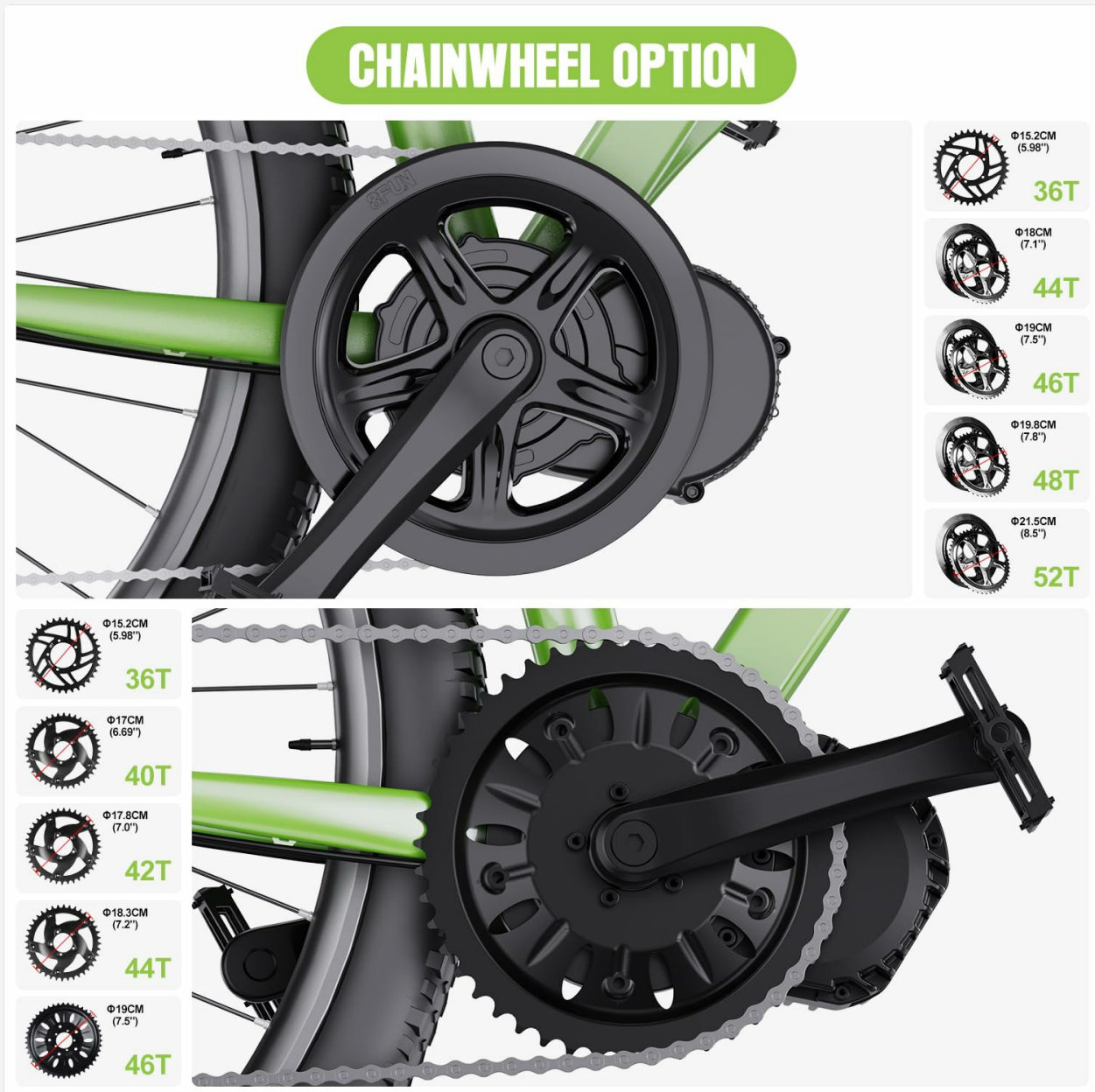
The complete kit includes:

- Mid-drive motor unit (8FUN M615 MM G320.1000)
- Thumb throttle
- Wiring cables
- Sprocket/Chainring (various options available)
- Display unit (e.g., 800S Display)
- Lock nuts and mounting hardware

## 2.3. Installation Steps (General Overview)

1. Remove existing crankset and bottom bracket from your bicycle.
2. Install the mid-drive motor unit into the bottom bracket shell. Ensure it is securely fastened using the provided lock nuts.
3. Attach the chainring to the motor unit. Refer to the chainwheel option guide for selection.

4. Install the cranks and pedals.
5. Mount the display unit and thumb throttle on the handlebars.
6. Connect all wiring cables from the motor, display, throttle, and battery (battery not included in this kit) according to the wiring diagram (refer to detailed instructions provided with the physical product).
7. Perform a functional check to ensure all components are working correctly before riding.



Visual guide to available chainwheel options for the mid-drive motor, including different tooth counts (36T, 44T, 46T, 48T, 52T) and their corresponding diameters.

### 3. Operating Instructions

Once installed, the CHAOZHU mid-drive motor kit offers various modes to enhance your cycling experience.

#### 3.1. Display Functions (800S Display)

The 800S display provides essential information and control over your e-bike system:

- **Speed Display:** Shows current riding speed.

- **Power Indicator:** Displays motor power output.
- **Mileage Indicator:** Tracks trip distance and total mileage.
- **Brake Indicator:** Alerts when brakes are applied.
- **PAS (Pedal Assist System) Levels:** Adjust the level of motor assistance (0-9 levels).
- **Headlight Power On:** Indicates if the headlight is active (if connected).
- **Error Codes:** Displays diagnostic error messages.
- **Battery Indicator:** Shows remaining battery charge.



Image showing the 800S display mounted on handlebars, with icons representing various functions: speed display, power indicator, mileage indicator, brake indicator, PAS levels, headlight power, error codes, and battery indicator.

### 3.2. Riding Modes

The BAFANG mid-drive system supports multiple riding modes:

- **Throttle Mode:** Provides power directly via the thumb throttle, useful for quick acceleration or climbing without pedaling.
- **PAS Mode (Pedal Assist System):** The motor provides assistance proportional to your pedaling effort, saving energy and extending range. Adjust the assist level via the display.
- **Normal Bike Mode:** The motor is off, and the bicycle functions as a traditional bike, relying solely on

pedal power.

# BAFANG MID DRIVE SYSTEM



IPX5 Waterproof



Easy Install

**BAFANG**

BAFANG Designed

• BBS01B BBS02B



• BBSHD



**THROTTLE MODE**

Rapid Climb



**PAS MODE**

Save Effort



**NORMAL BIKE**

Exercise Mode

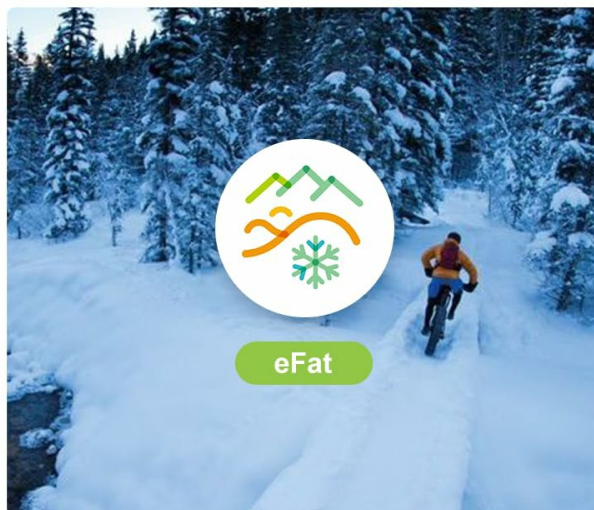
Infographic highlighting key features of the BAFANG mid-drive system: IPX5 waterproof rating, easy installation, and different riding modes (Throttle Mode, PAS Mode, Normal Bike Mode).

## 3.3. Applications

This motor kit is suitable for upgrading various types of bicycles:

- eMTB (electric mountain bike)
- eRoad (electric road bike)
- eCargo (electric cargo bike)
- eFat (electric fat bike)

Designed for upgrading standard cargo bikes to convenient eMTB , eCargo ,eFat and for cost-effective eSpeed bikes.



Illustrations depicting various bicycle types that can be upgraded with the motor kit: eMTB (electric mountain bike), eRoad (electric road bike), eCargo (electric cargo bike), and eFat (electric fat bike).

## 4. Maintenance

Proper maintenance ensures the longevity and optimal performance of your mid-drive motor kit.

- **Regular Cleaning:** Keep the motor unit and connections clean from dirt and debris. Use a damp cloth; avoid high-pressure washing directly on electrical components.
- **Cable Inspection:** Periodically check all cables and connectors for wear, damage, or loose connections. Ensure they are securely plugged in.
- **Fastener Check:** Verify that all mounting bolts and lock nuts are tight, especially those securing the motor to the bottom bracket.
- **Chain and Drivetrain:** Maintain your bicycle's chain and drivetrain (sprocket, derailleur) as you would on a regular bike. Keep the chain lubricated and clean.
- **Storage:** When not in use for extended periods, store the bike in a dry, temperate environment. If using a removable battery, store it separately according to its manufacturer's guidelines.

- **Protection Mechanisms:** The motor is equipped with internal protection against overheating, overloading, and short circuits. If the motor stops unexpectedly, check for error codes on the display and allow it to cool down if overheating is indicated.

## 5. Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Motor not providing assist	Low battery; Loose cable connection; PAS level set to 0; Brake lever sensor engaged.	Charge battery; Check all electrical connections; Increase PAS level on display; Ensure brake levers are fully released.
Display not turning on	Battery not connected or dead; Loose display cable; Faulty display.	Check battery connection and charge; Reconnect display cable firmly; Contact support if issue persists.
Unusual noises from motor	Loose mounting bolts; Debris in motor housing; Internal component issue.	Check and tighten all mounting bolts; Inspect for external debris; If noise persists, seek professional assistance.
Motor cuts out during ride	Overheating; Overload protection activated; Low battery.	Allow motor to cool down; Reduce load/assist level; Check battery charge.

For persistent issues or problems not listed here, please contact customer support.

## 6. Specifications

- **Motor Type:** Mid-drive motor
- **Model:** 8FUN M615 MM G320.1000
- **Rated Power:** 1000W
- **Voltage Compatibility:** 48V / 52V
- **Bottom Bracket Compatibility:** 68-73mm (width), ≥33.5mm (inner diameter)
- **System Compatibility:** BBS03, BBSHD
- **Waterproof Rating:** IPX5
- **Included Components:** Motor, thumb throttle, cables, sprocket, display (e.g., 800S), lock nuts.
- **Package Dimensions:** Approximately 16 x 12 x 8 inches
- **Package Weight:** Approximately 12 Pounds
- **Manufacturer:** CHAOZHU

## **7. Warranty and Support**

For information regarding product warranty, please refer to the warranty card included with your purchase or contact CHAOZHU customer service directly. Keep your proof of purchase for any warranty claims.

### **7.1. Customer Support**

If you have any questions, require technical assistance, or need to report an issue, please contact CHAOZHU customer support through the retailer where you purchased the product or via the contact information provided on the official CHAOZHU website.