

BAFANG BBS01B 36V 250W C18 Display Kit

BAFANG BBS01B Mid Drive Motor Kit (36V 250W) with C18 Display User Manual

Model: BBS01B 36V 250W C18 Display Kit

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your BAFANG BBS01B Mid Drive Motor Kit. This kit is designed to convert standard bicycles into electric bikes, offering enhanced performance and versatility. Please read this manual thoroughly before installation and use to ensure proper function and safety.

Product Overview

The BAFANG BBS01B Mid Drive Motor Kit is a robust and efficient solution for electric bicycle conversion. It features a powerful 36V 250W motor, a C18 display with 9 levels of pedal assist and automatic backlight, and a comprehensive set of components for a complete conversion.

Key features include:

- **Universal Compatibility:** Designed for mountain bikes, road bikes, and commuter bikes with a standard JIS 68mm bottom bracket (34mm lower bracket diameter).
- **Powerful Performance:** The 36V 250W motor delivers a maximum torque of up to 80 N.m and a top speed of 25 km/h, providing excellent climbing capability.
- **Three Driving Modes:** Offers pure electric mode, power-assisted mode, and manpower mode to suit various riding preferences and conditions.
- **Easy Installation:** The kit is designed for straightforward installation, allowing for quick conversion of your bicycle.

- User Manual (this document)

Note: Battery is not included in this kit.



Figure 2.1: Visual representation of the BAFANG Mid Drive Motor Kit and its included components.

3. SETUP AND INSTALLATION

3.1 Compatibility Check

Before beginning installation, ensure your bicycle is compatible with the BAFANG BBS01B Mid Drive Motor Kit.

- **Bottom Bracket:** Your bike must have a 68mm bottom bracket. The inner diameter of the bottom bracket should be approximately 33.5mm.
- **Frame Material:** It is not recommended to install this conversion kit onto a carbon fiber frame.
- **Sprocket Clearance:** Ensure that the chosen chainring size will not interfere with the chain stay of your bicycle frame.



We **DO NOT** suggest that you install this conversion kit onto a **CARBON FIBER FRAME**



Make sure your bike has a 68mm bottom bracket

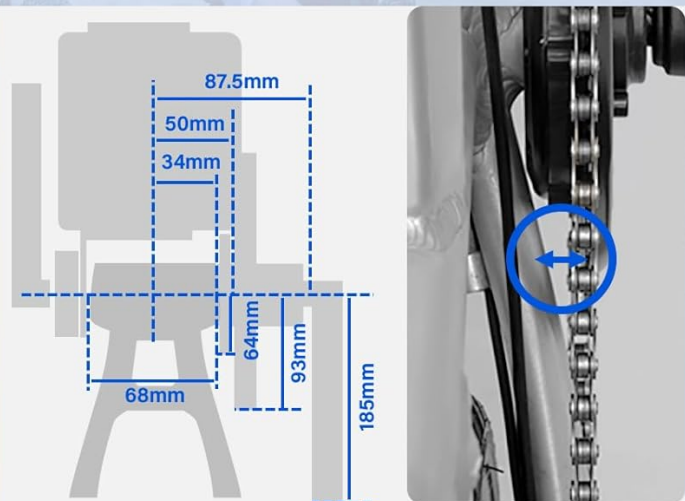
Dimension A: 215mm
Dimension C: 68mm

Dimension B: 123mm
Dimension D: 175mm

Does this motor work for my bike?



See if the inner diameter of bottom bracket is **33.5mm**



Make sure the sprocket will not hit chain stay of your bike

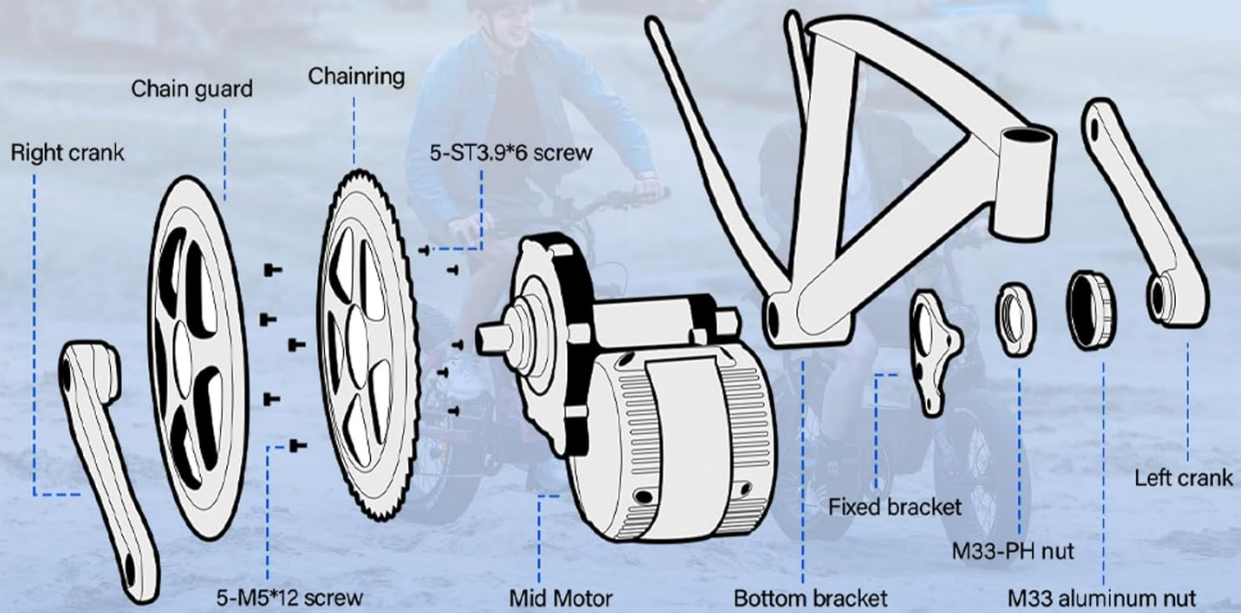
Figure 3.1: Diagrams illustrating how to measure your bicycle's bottom bracket (68mm width, 33.5mm inner diameter) and check for adequate sprocket clearance to ensure compatibility with the BAFANG motor.

3.2 Motor Installation Steps

Follow these steps to install the BAFANG mid drive motor onto your bicycle:

1. Remove your bicycle's existing bottom bracket, cranks, and chainring.
2. Insert the BAFANG mid motor into the bottom bracket shell.
3. Secure the motor with the fixed bracket, M33-PH nut, and M33 aluminum nut.
4. Install the chainring and chain guard onto the motor spindle, securing them with the provided screws.
5. Attach the right and left cranks to the motor spindle.

BAFAG MOTOR INSTALLATION



Mounting fittings

Figure 3.2: An exploded diagram showing the individual components and their assembly order for installing the BAFANG mid drive motor onto a bicycle frame.

3.3 Wiring Diagram

Connect the various components to the motor using the provided 1T4 cable and individual connectors. Ensure all connections are secure and correctly oriented.

- Connect the **Display** to the main wiring harness.
- Connect the **Brake Levers** (e-Brakes) to the main wiring harness.
- Connect the **Thumb Throttle** to the main wiring harness.
- Connect the **Speed Sensor** to the motor. Ensure the sensor is mounted correctly to detect wheel rotation.
- Connect the **Front Lamp** (if included or purchased separately) to the designated port.
- Connect your **Battery** (not included) to the motor's power input.

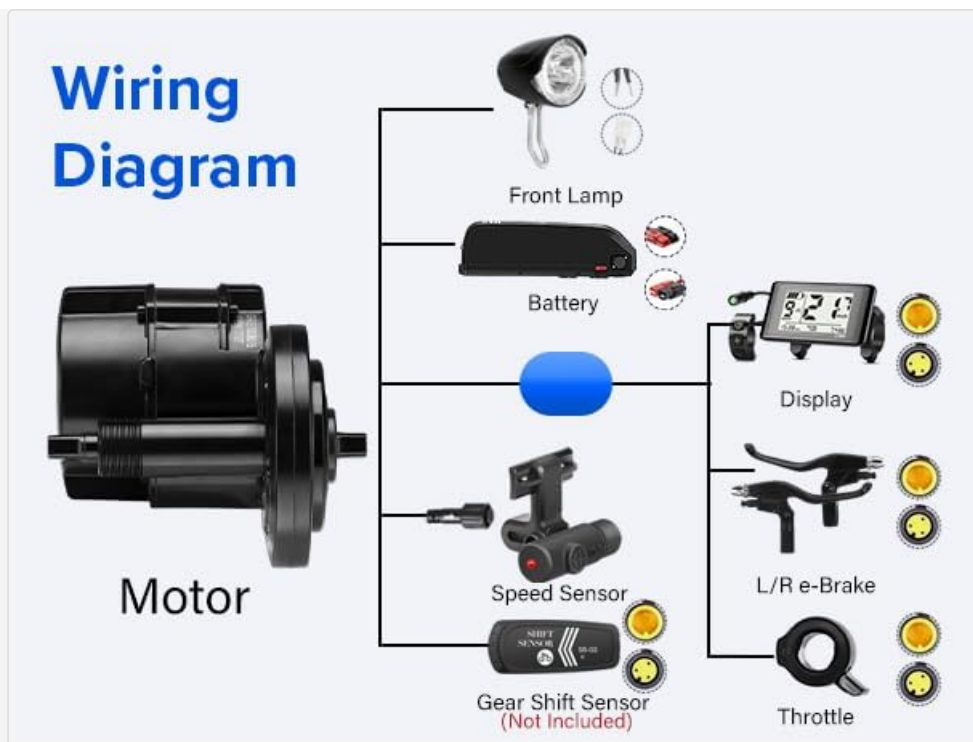


Figure 3.3: A detailed wiring diagram illustrating the connections between the BAFANG mid drive motor, battery, display, speed sensor, e-brakes, throttle, and front lamp.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

To power on the system, press and hold the power button on the C18 display. To power off, press and hold the power button again.

4.2 C18 Display Functions

The C18 display provides real-time information and control over your e-bike system:

- **Speed Indication:** Displays current speed.
- **Battery Level:** Shows remaining battery charge.
- **Pedal Assist Level (PAS):** Adjust between 9 levels of pedal assistance using the '+' and '-' buttons.
- **Trip Distance:** Tracks current trip distance.
- **Automatic Backlight:** The display features an automatic backlight for visibility in varying light conditions.

4.3 Driving Modes

The BAFANG mid drive motor supports three primary driving modes:

- **Pure Electric Mode:** Engage the thumb throttle to propel the bike without pedaling.
- **Power-Assisted Mode:** Select a pedal assist level (1-9) on the C18 display. The motor will provide assistance proportional to your pedaling effort.
- **Manpower Mode:** Ride the bicycle without any motor assistance, similar to a traditional bicycle.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your BAFANG mid drive motor kit.

- **Motor Casing:** Keep the motor casing clean and free from dirt and debris. Avoid using high-pressure water jets directly on the motor.
- **Electrical Connections:** Periodically check all electrical connections for tightness and corrosion. Ensure cables are not pinched or damaged.
- **Chain and Drivetrain:** Maintain your bicycle's chain and drivetrain (chainring, cassette, derailleur) as you would a regular bike. Keep the chain lubricated and clean.
- **Display and Controls:** Clean the display screen with a soft, damp cloth. Ensure buttons on the display and throttle operate smoothly.
- **Battery Care:** Follow the manufacturer's instructions for your specific e-bike battery (not included with this kit) regarding charging, storage, and maintenance.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your BAFANG mid drive motor kit.

Motor Not Powering On

- **Check Battery:** Ensure the battery is fully charged and properly connected to the motor.
- **Check Connections:** Verify all electrical connections, especially the main power cable from the battery to the motor, are secure.
- **Display Connection:** Ensure the C18 display is correctly connected and functioning.

No Pedal Assist

- **PAS Level:** Confirm that a pedal assist level (1-9) is selected on the C18 display.
- **Speed Sensor:** Check if the speed sensor is correctly installed and aligned to detect wheel rotation. A loose or misaligned sensor can prevent pedal assist.
- **Brake Levers:** Ensure the e-brake levers are not engaged, as they cut off motor power when activated.

Motor Making Unusual Noises

- **Loose Components:** Check for any loose mounting bolts or components around the motor and bottom bracket.
- **Chainring/Chain:** Inspect the chainring and chain for wear or misalignment.
- If unusual noises persist, discontinue use and contact customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	BAFANG
Model Name	UART Version Bafang Motor
Voltage	36 Volts
Horsepower	250 Watts
Max Torque	80 N.m
Max Speed	25 km/h

Feature	Specification
Item Weight	6.8 Kilograms
Bottom Bracket Compatibility	68mm (JIS Standard)
Display Type	C18 Display (9 levels pedal assist, automatic backlight)
UPC	783779999040
Part Number	36V-250W Motor Kit 46T -C18

Dimensions / Size				
Motor model	250W/350W	500W	750W	1000W
A	200mm	200mm	200mm	215mm
B	112mm	112mm	112mm	123mm
C	68mm	68mm	68mm	68mm
D	159mm	159mm	159mm	175mm
Voltage	36V	36V48V	48V	48V
Max torque	80N.m	100N.m	160N.m	160N.m
Maximum speed	25km/h	25km/h	25km/h	25km/h
Bracket bottom length	68mm	68mm	68mm	68mm

Figure 7.1: Detailed dimensions and specifications for various BAFANG mid drive motor models, including the 250W/350W variant.

8. WARRANTY AND SUPPORT

Warranty Information

Please refer to the warranty card included with your product for specific warranty terms and conditions. Generally,

BAFANG products are covered against manufacturing defects for a specified period from the date of purchase.

Customer Support

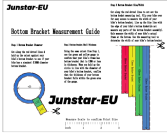

If you have any questions, require technical assistance, or find any parts missing from your kit, please contact BAFANG customer support. Provide your product model and purchase details for efficient service. For support, please visit the official BAFANG website or contact your retailer.



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Related Documents - BBS01B 36V 250W C18 Display Kit

<div><div>BAFANG BBS01/BBS02 Installation Manual</div><div></div><div>Prepared for Customers of eMax eBikes, Australia</div></div>	<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>
<div><div>BAFANG</div><div></div><div>TECHNICAL SPECIFICATION RM G020.250.DC</div></div>	<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>
<div><div>7 DEALER MANUAL FOR DP C18.CAN</div><div></div><div>CONTENT</div><div><ul style="list-style-type: none">1. Introduction2. Installation3. Operation4. Settings5. Troubleshooting6. Maintenance7. Warranty</div></div>	<p>Bafang DP C18.CAN Display Dealer Manual</p> <p>This manual provides comprehensive instructions for dealers on the installation, operation, and settings of the Bafang DP C18.CAN display for e-bikes.</p>
<div><div>7 USER MANUAL FOR DP C18.CAN</div><div></div><div>CONTENT</div><div><ul style="list-style-type: none">1. Introduction2. Installation3. Operation4. Settings5. Troubleshooting6. Maintenance7. Warranty</div></div>	<p>Bafang DP C18.CAN Display User Manual</p> <p>Comprehensive user manual for the Bafang DP C18.CAN e-bike display, detailing its features, operation, settings, and troubleshooting for optimal use.</p>

 <p>Junstar-EU Battery Bracket Measurement Guide</p>	<p>Bafang Electric Bike Conversion Kit: Jumbo Shark & G80 Battery Mount Modification Guide</p> <p>This guide provides printable templates and instructions for modifying battery mounts for Bafang electric bike conversion kits, specifically for Jumbo Shark mounts used with G80 and other compatible Hailong batteries.</p>
 <p>BAFANG USER MANUAL BBS Series Drive System</p>	<p>Bafang BBS Series Drive System User Manual</p> <p>Comprehensive user manual for the Bafang BBS Series Drive System, covering installation, operation, maintenance, and troubleshooting for e-bike conversion kits.</p>