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› [BAFANG](#) /

› [BAFANG BBS02 Mid Drive Ebike Conversion Kit User Manual](#)

BAFANG BBS 48V 750W+500C+T44

BAFANG BBS02 Mid Drive Ebike Conversion Kit User Manual

Model: BBS 48V 750W+500C+T44

INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your BAFANG BBS02 48V 750W Mid Drive Ebike Conversion Kit. Please read this manual thoroughly before attempting any installation or operation to ensure safe and optimal performance of your e-bike system.

PRODUCT OVERVIEW

The BAFANG BBS02 mid-drive motor kit is designed to convert a standard bicycle into a powerful electric bicycle. It offers a robust and reliable motor with various features to enhance your riding experience.

Key Components

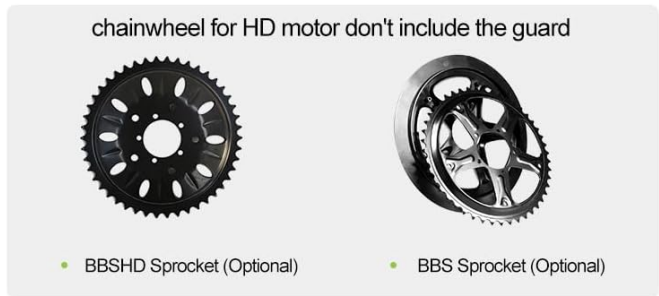
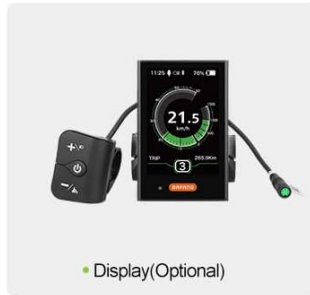
The kit typically includes the following main components:

- BAFANG Mid-drive motor (BBS02B 48V 750W)
- LCD Display (e.g., 500C, DPC010.CB, DPC080.C, VD03, VD618, P860ML)
- Chainring Wheel (e.g., 44T, optional 36T, 42T, 46T, 52T)
- Crank Arms
- Thumb Throttle
- Brake Levers or Hydraulic Brake Sensor Cables
- Speed Sensor
- 1T4 Wire Harness
- Locknuts and Wrench
- Ebike Headlight (in default kits)
- Optional Battery (not included in this specific kit)



Figure 1: BAFANG BBS02 Mid Drive Motor Kit, showing the main motor unit and various included accessories.

PACKING LIST



Free Gift

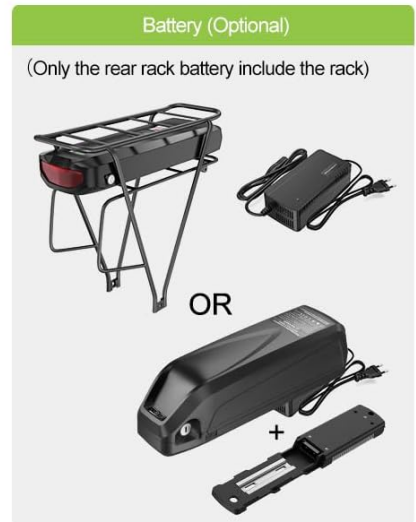
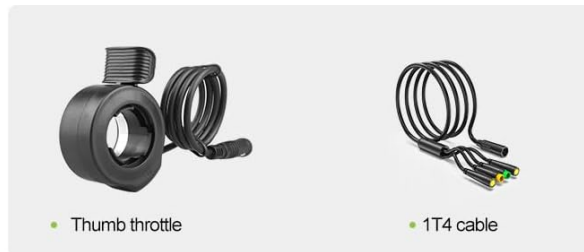
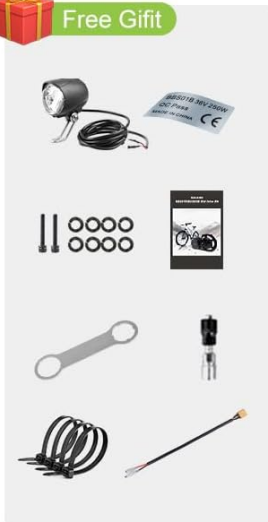


Figure 2: Detailed packing list of the BAFANG BBS02 kit, illustrating all included components such as the motor, display, chainring, cranks, and wiring.

Features

- **Powerful Motor:** The 750W motor provides up to 100-160 N.m of torque, suitable for climbing and reaching speeds over 25mph.
- **Multiple Riding Modes:** Supports E-bike (throttle), Pedal Assisted (PAS), and Push Assist modes.
- **Upgraded BBS02B Motor:** Features a slow start function for smoother acceleration and speed changes based on throttle pressure.
- **Integrated Design:** Mid-drive motor integrates seamlessly with your bike's frame, preserving original aesthetics and providing optimal power transfer.
- **IPX5 Waterproof Rating:** Ensures durability and reliability in various weather conditions.



Figure 3: Comparison highlighting the new upgraded BBS02B motor's features, including slow start function and improved throttle response.



Figure 4: Illustration of the BAFANG Mid Drive System, showcasing its IPX5 waterproof rating, easy installation, and various riding modes: Throttle, PAS, and Normal Bike.

COMPATIBILITY

The BAFANG BBS02B Mid Drive Kit is designed for bicycles with a standard 68-73mm bottom bracket length and 34-36mm internal diameter. Ensure your bike's chainstay provides sufficient clearance for the chainring.

- **Bottom Bracket:** Compatible with 68-73mm length and 34-36mm internal diameter.
- **Chainring Clearance:** Verify that the chosen chainring size will not interfere with your bike's chainstay.
- **Brake Compatibility:** The kit comes with brake levers or hydraulic brake sensor cables. Ensure compatibility with your existing brake system (mechanical disc brakes, rim V brake, or hydraulic disc brake).



Figure 5: Guide for measuring your bike's bottom bracket size (68-73mm length, 34-36mm internal diameter) and checking chainring clearance for compatibility.

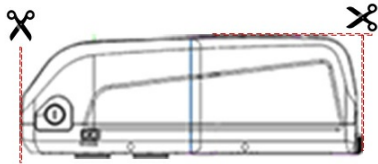
IF THE DOWNTUBE SHARK BATTERY CAN FIT WITH MY BIKE?

- 1 Easy to find this file on the product page, please download it

Product guides and documents

Size Guide(PDF) 

- 2 Cut off testing cutouts



- 3 Use the testing cutouts to check the compatibility.



Figure 6: Information on brake compatibility, showing different brake types and indicating which are suitable for the kit's brake levers or sensors.

SETUP AND INSTALLATION

Installation of the BAFANG BBS02 kit involves mounting the motor to the bottom bracket, installing the chainring and cranks, and connecting the electrical components. A detailed installation video and instruction manual are available to guide you through the process.

General Steps:

1. Remove existing bottom bracket and crankset from your bicycle.
2. Install the BAFANG mid-drive motor into the bottom bracket shell.
3. Secure the motor with the provided locknuts and wrench.
4. Attach the chainring and crank arms to the motor spindle.
5. Mount the LCD display on the handlebars.
6. Install the thumb throttle and brake levers/sensors.
7. Mount the speed sensor on the rear wheel and magnet on a spoke.
8. Connect all electrical components using the 1T4 wire harness and other cables. Ensure all connections are secure and waterproof.
9. Install the ebike headlight.
10. If using an optional battery, mount it securely to your bike frame (e.g., downtube or rear rack).



Figure 7: Comprehensive wiring diagram for the BAFANG BBS02 kit, showing connections for the motor, display, throttle, brakes, and other accessories.



Figure 8: Diagram illustrating the IP65 waterproof wiring system, emphasizing secure and sealed connections for enhanced durability and safety.

Your browser does not support the video tag.

Video 1: An official video from the seller demonstrating the BAFANG BBS motor in various riding scenarios, highlighting its performance and integration with a bicycle. This video provides a visual overview of the motor's capabilities.

OPERATING INSTRUCTIONS

The BAFANG BBS02 kit offers versatile riding modes and a user-friendly display for controlling your e-bike.

Riding Modes:

- **E-bike Mode (Throttle):** Provides power directly via the thumb throttle, allowing you to ride without pedaling.
- **Pedal Assisted (PAS) Mode:** The motor provides assistance as you pedal. You can adjust the assistance level (e.g., 0-9 levels) via the display.
- **Push Assist Mode:** Provides low-speed assistance for walking the bike.
- **Normal Bike Mode:** The motor is off, and the bike functions as a regular bicycle.



750W(Peak 1152W) Powerful Motor

Equipped with 750W High-Torque Motor, with a top speed of 45KM/H making climbing easier, effortlessly conquer off-road challenges. Provide you with an awesome riding experience.

 40-45KM/H Max Speed:	 100N.m Max Torque:	 4.3KG Weight:
 40° Climbing angle:	 IPX5 Waterproof:	

Figure 9: Visual representation of the different riding modes (Rapid Climb Ebike Mode, Save Effort Pedal Assistance Mode, Exercise Mode Bike Mode) and their suitability for various terrains.

LCD Display:

The LCD display provides essential information and allows you to customize settings. Common features include:

- Real-time speed (KM/H or MPH)
- Battery power indicator
- PAS level selection (0-9 levels)
- Trip distance and total mileage
- Ride time
- Error codes
- Headlight indicator
- USB charging port (on some models)
- Automatic light sensor (on some models)

WHY CHOOSE US?

NEW UPGRADED BBS02B MOTOR

NEW

Gently Start



Slow Start Function



Speed Changes Based on Throttle Pressure



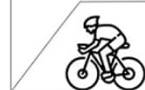
Speed Limit Applies To



Old version

OLD

Quick Start



No Slow Start Function



Same Speed



Speed Limit Applies To



Quieter Ride Experience



Stable Current Output



Stronger Power Burst



Communication Battery Compatible



Smooth Torque Feeling



Enhanced Function Stability



Reduced After-Sales Issues

Figure 10: Close-up of the LCD display interface, showing speed, battery level, PAS level, trip information, and other indicators.



1000W(Peak 1440W) Powerful Motor

Equipped with 1000W High-Torque Motor, with a top speed of 50KM/H making climbing easier,effortlessly conquer off-road challenges.Provide you with an awesome riding experience.

**45-50KM//H**
Max Speed:

**160N.m**
Max Torque:

**5.6KG**
Weight:

**45°**
Climbing angle:

**IPX5**
Waterproof:

Figure 11: Overview of various high-tech ebike display options, detailing screen size, holder compatibility, PAS levels, and additional features like navigation and USB charging.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your BAFANG e-bike conversion kit.

- **Cleaning:** Keep the motor and electrical components clean. Use a damp cloth; avoid high-pressure washing directly on electrical parts.
- **Connections:** Periodically check all electrical connections for tightness and corrosion. Ensure waterproof seals are intact.
- **Chain and Gearing:** Lubricate the chain regularly and inspect the chainring and rear sprockets for wear.
- **Brakes:** Inspect brake pads and cables/hoses regularly. Adjust or replace as needed for safe operation.
- **Battery (if applicable):** Follow the battery manufacturer's guidelines for charging and storage. Avoid fully discharging the battery.

TROUBLESHOOTING

If you encounter issues with your BAFANG e-bike kit, refer to the following common troubleshooting tips. For complex problems, contact customer support.

Problem	Possible Cause	Solution
Motor not assisting	Loose electrical connection, low battery, display error code.	Check all cable connections. Charge battery. Refer to display manual for error code meaning.
Display not turning on	Loose power cable, battery off/dead.	Ensure main power cable is connected. Check battery power and turn it on.
Inconsistent power delivery	Speed sensor misalignment, loose magnet.	Verify speed sensor and magnet alignment and ensure they are secure.
Noise from motor	Loose motor mounting, internal issue.	Check motor mounting bolts for tightness. If noise persists, contact support.

SPECIFICATIONS

Specification	Value
Brand	BAFANG
Model Name	M315 MM G340.750.C
Voltage	48 Volts
Horsepower	750 Watts
Material	Aluminum
Item Weight	6 Kilograms
UPC	649383341128
Part Number	BBS 48V 750W+500C+T44
Style	Bafang mid drive
Grip Type	BAFANG Thumb Throttle
Bottom Bracket Compatibility	68-73mm (length), 34-36mm (internal diameter)

Smart Digital Display

The image shows a comparison between the Bafang Smart Digital Display and a traditional black display. The Smart Display is shown in various views, including a close-up of the screen displaying speed (28.4 km/h), time (11:30), and battery level (100%). It is mounted on a handlebar. The traditional black display is shown on the right, displaying speed (0.0 km/h) and battery level (3.00). A large yellow 'VS' graphic separates the two displays. A 'Switchable' label with a double-headed arrow indicates the transition between the two displays.

- Color screens with backlight settings for clear visibility.
- Adjustable speed limits to suit various terrains.
- Dual interface themes for customizable display.
- Nine PAS level for versatile speed adjustments
- USB charging port for emergency smartphone charging
- Automatic light sensor activates headlight in dark environment.

- Unattractive black display.
- Fixed to 3-5 adjustable PAS levels
- Subpar water resistance.
- Inadequate visibility under sunlight.
- Limited functions, poor user experience

Figure 12: Detailed specifications for the 750W motor, including max speed, max torque, climbing angle, weight, and IPX5 waterproof rating.

WARRANTY AND SUPPORT

BAFANG provides support for its products to ensure customer satisfaction.

- Warranty:** One month return service. For any quality problems within one year, technical support and maintenance are available through the North American after-sales service center.
- User Guide (PDF):** A detailed user guide in PDF format is available for download.[Download User Guide \(PDF\)](#)
- Service Center:** Local warehouses and service points are available in US/UK/CA/EU for technical support and maintenance.

