

BAFANG 48V1000W Rear Hub Motor Kit

BAFANG 48V1000W Rear Hub Motor Kit User Manual

Comprehensive guide for the BAFANG 48V1000W Rear Hub Motor Kit, designed for snow and fat tire ebike conversions.

1. PRODUCT OVERVIEW

This section provides a detailed overview of the BAFANG 48V1000W Rear Hub Motor Kit, highlighting its key features and components.



Image 1.1: Complete BAFANG 48V1000W Rear Hub Motor Kit showing the motor, display, battery (optional), controller, and various cables.

Key Features:

- **Powerful Performance:** Experience unmatched speed and torque with the BAFANG 48V 1000W Rear Hub Motor Kit, designed for both Electric Bike Conversion Kit enthusiasts and daily riders. Boasting 85N.m max torque and 45KM/H top speeds, this Rear Wheel-mounted motor delivers thrilling acceleration while maintaining a quiet (55dB) and waterproof (IPX6) design. Bafang's trusted reputation ensures reliability for every adventure.
- **Wide Compatibility:** Engineered specifically for 20"/ 26" fat tire bikes, this Ebike Conversion Kit thrives in extreme conditions like snow and sand. The Rear Wheel assembly requires a 175mm rear dropout width and pairs seamlessly with disc brake systems (V-brakes not supported). For optimal performance, ensure your bike features a cassette-style rear hub rather than a freewheel setup. This precision fit guarantees straightforward installation and dependable operation across challenging terrains.
- **Effortless Installation & Complete Components:** Upgrade your ride in minutes with this BAFANG Rear Hub Motor Kit included in our Electric Bike Conversion Kit. The kit includes everything needed for a seamless Rear Wheel swap, from cables to controllers, ensuring a hassle-free one-stop solution for enhanced cycling performance.

- **Customizable Display Options:** Tailor your riding experience with premium displays compatible with this BAFANG Rear Hub Motor Kit. Choose from 500C, DPC18, P860ML, and more to monitor speed, battery, and PAS levels. Each display integrates seamlessly with the Rear Wheel motor, providing real-time data for smarter, safer rides.
- **Personalize Your Battery Selection:** The BAFANG Hub motor is not limited to BAFANG batteries, it is compatible with the 48V 13Ah/17.5Ah/19.2Ah/20Ah and 52V 20Ah electric bike batteries we provide (if you choose the "without battery" option, your shipment will not include a battery); please make sure you prepare a compatible 48V battery in advance. The motor will be equipped with a male XT60 connector, so please make sure your battery connector is compatible with this motor.



H550

RM G062.1000.DC



Rated Power 1000W

Max Speed 45KM/h

Max Torque 85N.m

Weight 4.9Kg

Image 1.2: Detailed view of the BAFANG H550 motor, highlighting its rated power, max speed, max torque, and weight.

2. SPECIFICATIONS

Detailed technical specifications for the BAFANG 48V1000W Rear Hub Motor Kit.

Attribute	Value
Motor Model	BAFANG RM G062.1000.DC
Rated Voltage	48V
Rated Power	1000W
Max Torque	85 N.m
Position	Rear Fat Tire Wheel
Wheel Diameter	20"/26"
Construction	Brushless Gear Motor
Efficiency	≥80%
Noise Grade	55 dB
Operating Temperature	-20-45 °C
Rear OLD (Dropout Width)	175mm
Brake Style Compatibility	Disc (V-brakes not supported)
Drivetrain Compatibility	Cassette (Freewheel not supported)
Model Name	48V1000W Rear Hub Motor Kit
Part Number	US JJ G062 48V1000W Fat Rear DZ

H550 48V1000W



Model	RM G062.1000.DC
Position	Rear Wheel
Rated Power	1000W
Rated Voltage	48V
Max Speed	About 45KM/H
Max Torque	85N.M
OLD	175mm
Spoke Specifications	36H*12G
Noise Grade	<55dB
Waterproof Grade	IPX6
Efficiency	>80%
Operation Temperature	-20°C - 45°C
Brake Type	Disc Brake
Motor Weight	About 4.9kg
Certification	CE / ROHS / UL

20" Motor Wheel

Diameter: About 420mm (16.54")
Spokes: 132/134mm 12G
Fit For 4.0 Fat Tire



26" Motor Wheel

Diameter: About 573mm (22.56")
Spokes: 223/224mm 12G
Fit For 4.0 Fat Tire

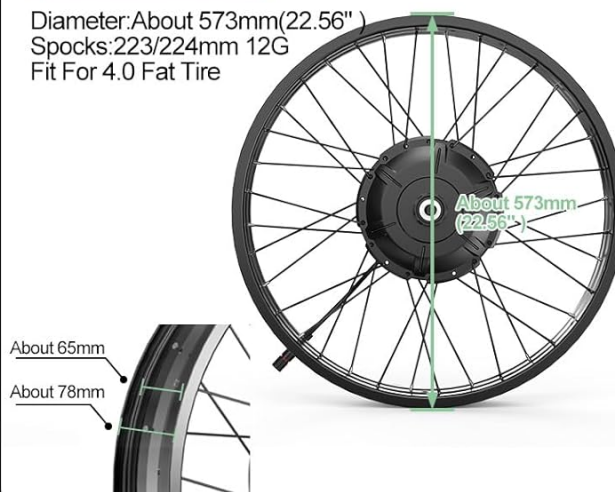


Image 2.1: Technical drawing showing the dimensions of the BAFANG H550 motor and compatible 20" and 26" fat tire wheel sizes.

3. SETUP AND INSTALLATION

This section outlines the general steps for setting up and installing your BAFANG 48V1000W Rear Hub Motor Kit. For detailed instructions, please refer to the specific installation guide provided with your kit.

Pre-Installation Checks:

- Ensure your bike's rear dropout width is 175mm.
- Confirm your bike uses disc brakes (V-brakes are not supported).
- Verify your bike's rear hub is cassette-style, not freewheel.
- Prepare a compatible 48V or 52V battery with an XT60 male connector if not purchased with the kit.

Installation Steps (Overview):

1. Remove your bike's existing rear wheel.
2. Install the BAFANG rear hub motor wheel into the rear dropout, ensuring proper alignment.
3. Mount the controller box securely on your bike frame.
4. Connect the motor extension cable to the controller.
5. Install the display unit on your handlebars and connect it to the 1T4 cable.
6. Attach the thumb throttle and brake levers/sensors to the handlebars and connect them to the 1T4 cable.
7. Install the Left PAS Sensor and Right Big PAS Sensor and connect them.
8. Connect the headlight (if included) to the system.
9. Connect your compatible battery to the controller.
10. Secure all cables neatly using zip ties.

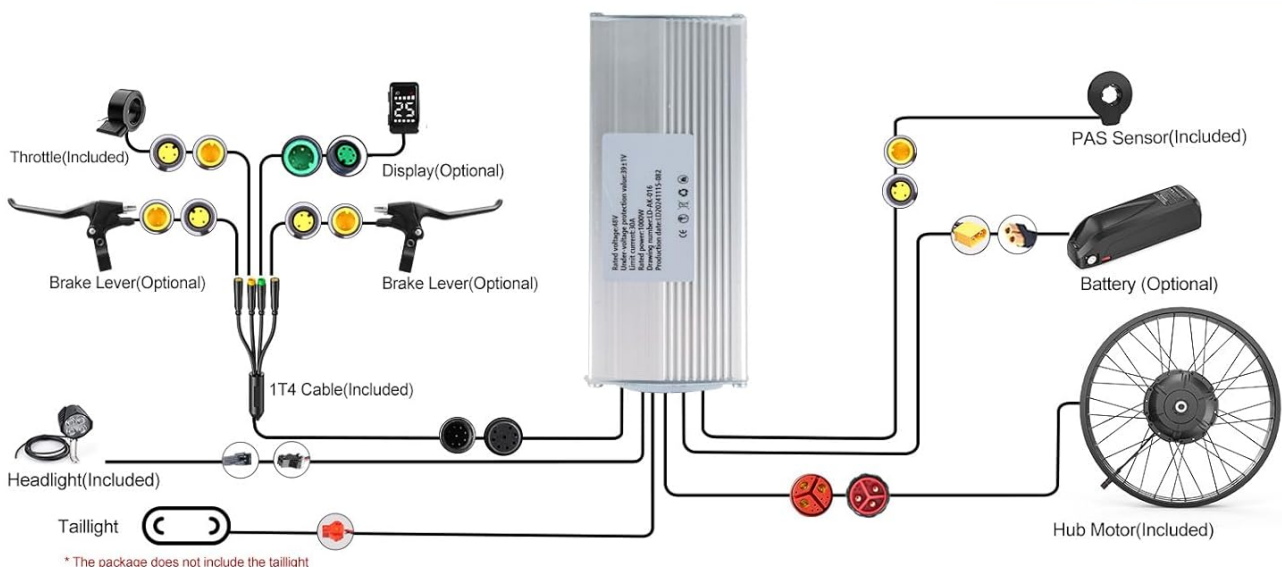
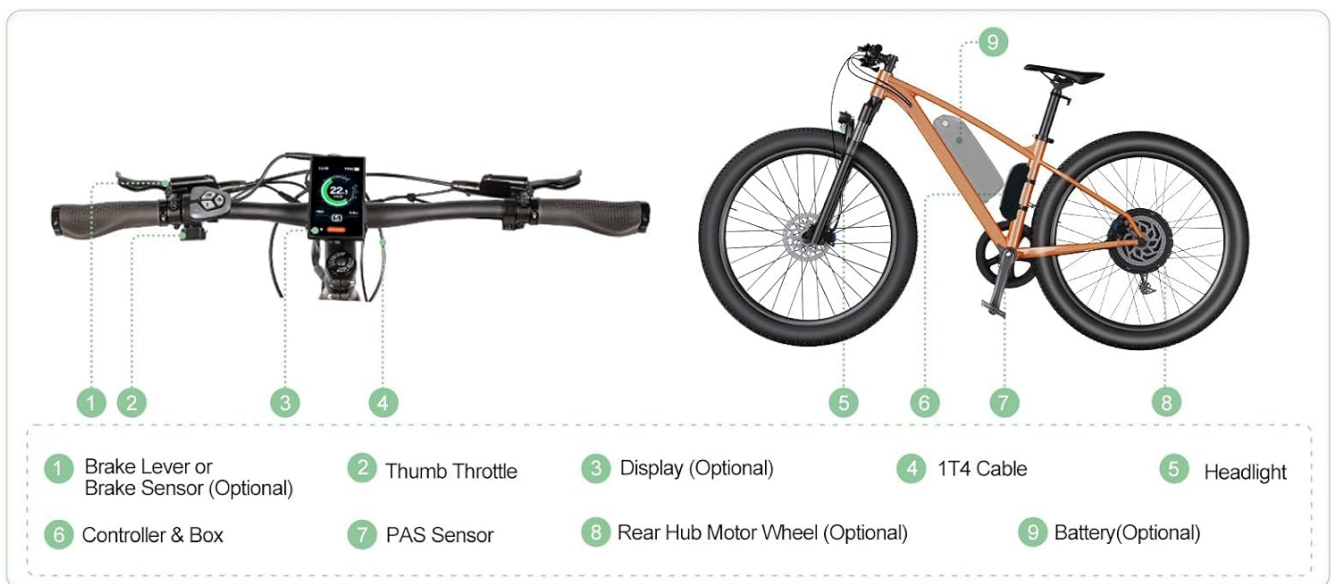


Image 3.1: Diagram illustrating the components and their connections for the BAFANG 48V1000W Rear Hub Motor Kit installation.

EKD01 Bluetooth Display



Screen: 2.4" TFT
 Handlebar Diameter: 22.2mm / 25.4mm
 Operating Voltage: 24V/36V/48V/52V
 USB Port: ✓ Type C
 Language: English, French, German, Spanish, Italian, Polish, Dutch, Czech

Speed Limit: ✓
 Battery Voltage: ✓
 Battery Percentage: ✓
 Bluetooth: ✓
 Boot Password: ✓
 Light Sensor: ✗

DPC18 Display



Screen: 3.5" TFT
 Handlebar Diameter(mm): 22.2 / 25.4 / 31.8
 Operating Voltage: 24V/36V/48V
 USB Port: ✓
 Language: English

Speed Limit: ✓
 Battery Voltage: ✓
 Battery Percentage: ✓
 Bluetooth: ✗
 Boot Password: ✓
 Light Sensor: ✓

P860C Display



Screen: 3.5" IPS
 Handlebar Diameter(mm): 22.2 / 25.4 / 31.8
 Operating Voltage: 24V/36V/48V/52V
 USB Port: ✓
 Language: English, French, German, Spanish, Italian, Czech

Speed Limit: ✓
 Battery Voltage: ✓
 Battery Percentage: ✓
 Bluetooth: ✗
 Boot Password: ✓
 Light Sensor: ✓

DZ40 Display



Screen: 1.68" IPS
 Handlebar Diameter(mm): 22.2
 Operating Voltage: 24V/36V/48V/52V
 USB Port: ✗
 Language: English

Speed Limit: ✓
 Battery Voltage: ✗
 Battery Percentage: ✓
 Bluetooth: ✗
 Boot Password: ✗
 Light Sensor: ✗

DM03 Display



Screen: 1.3" OLED
 Handlebar Diameter(mm): 22.2
 Operating Voltage: 24V/36V/48V/52V
 USB Port: ✗
 Language: English

Speed Limit: ✓
 Battery Voltage: ✓
 Battery Percentage: ✓
 Bluetooth: ✗
 Boot Password: ✓
 Light Sensor: ✗

500C Display



Screen: 2.2" IPS
 Handlebar Diameter(mm): 22.2
 Operating Voltage: 24V/36V/48V/52V
 USB Port: ✗
 Language: English

Speed Limit: ✓
 Battery Voltage: ✓
 Battery Percentage: ✓
 Bluetooth: ✗
 Boot Password: ✓
 Light Sensor: ✗

800S Display



Screen: 2.8" LCD
 Handlebar Diameter(mm): 22.2 / 25.4 / 31.8
 Operating Voltage: 24V/36V/48V/52V
 USB Port: ✗
 Language: English

Speed Limit: ✓
 Battery Voltage: ✗
 Battery Percentage: ✗
 Bluetooth: ✗
 Boot Password: ✗
 Light Sensor: ✗

Image 3.2: Various display options compatible with the BAFANG motor kit, including EKD01, DPC18, P860C, DZ40, DM03, 500C, and 800S.

4. OPERATING INSTRUCTIONS

Once installed, operating your BAFANG ebike conversion kit is straightforward. This section covers basic operation.

Powering On/Off:

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

Display Functions:

Your chosen display (e.g., 500C, DPC18, P860ML) will show key information:

- **Speed:** Current riding speed.
- **Battery Level:** Indicates remaining battery charge.
- **PAS Level:** Pedal Assist System level (0-5 or similar, depending on display). Adjust using the up/down buttons.
- **Odometer/Trip Distance:** Tracks total distance or current trip distance.

Riding Modes:

- **Pedal Assist System (PAS):** Provides motor assistance as you pedal. Adjust the PAS level to control the amount of assistance. Higher levels provide more power.
- **Throttle:** Use the thumb throttle for instant power without pedaling. This is useful for starting from a stop or for quick bursts of speed.

Always ensure you are familiar with local ebike regulations regarding speed and power limits.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your BAFANG 48V1000W Rear Hub Motor Kit.

- **Cleaning:** Keep the motor, controller, and electrical connections clean and free from dirt and debris. Use a damp cloth; avoid high-pressure washing directly on electrical components.
- **Connections:** Periodically check all electrical connections to ensure they are secure and free from corrosion.
- **Cables:** Inspect cables for any signs of wear, fraying, or damage. Replace damaged cables immediately.
- **Motor:** The motor is a sealed unit and generally requires no internal maintenance. Ensure the wheel spokes are properly tensioned.
- **Battery Care:** Follow the battery manufacturer's guidelines for charging, storage, and maintenance to maximize battery life. Avoid fully discharging the battery.
- **General Bike Maintenance:** Continue regular maintenance of your bicycle's mechanical components, including brakes, chain, and tires.

6. TROUBLESHOOTING

This section provides general troubleshooting tips for common issues. If you encounter problems not listed here or require further assistance, please contact BAFANG customer support.

Common Issues:

- **Motor Not Engaging/No Power:**
 - Check if the battery is fully charged and properly connected.
 - Ensure all electrical connections are secure.
 - Verify the display is powered on and showing no error codes.
 - Check the PAS sensor and throttle connections.
- **Display Not Turning On:**

- Confirm the battery is connected and has sufficient charge.
- Check the main power cable from the battery to the controller and from the controller to the display.
- **Intermittent Power/Assistance:**
 - Inspect all wiring for loose connections or damage.
 - Ensure the PAS sensor is correctly installed and aligned.

For more complex issues or error codes displayed on your unit, consult the specific display manual or contact BAFANG support.

7. WARRANTY AND SUPPORT

BAFANG is committed to providing high-quality products and excellent customer service.

Warranty Information:

Your BAFANG 48V1000W Rear Hub Motor Kit comes with a warranty:

- **Return Policy:** 30 days from purchase.
- **Repair or Replace:** 365 days from purchase.

Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, warranty claims, or any other inquiries, please contact BAFANG customer support through the retailer where you purchased the product or visit the official BAFANG website.

You can also visit the [BAFANG Store on Amazon](#) for more information and product resources.