

## BAFANG eBIKE-KIT-G340-36V-250W-46T-C18-13Ah

# Bafang Electric Bike Conversion Kit User Manual

BRAND: BAFANG

Model: eBIKE-KIT-G340-36V-250W-46T-C18-13Ah

## PRODUCT OVERVIEW

The BAFANG BBS01B Electric Bike Conversion Kit transforms a standard bicycle into an e-bike, offering pedal-assist and throttle modes. This kit includes a powerful mid-drive motor, a C18 display, and a 36V 13Ah downtube battery, along with all necessary accessories for installation.

## Key Features

- BAFANG BBS01B 36V 250W mid-drive motor with 80NM torque.
- 3.5" Bafang C18 display with 9 levels of pedal assist and auto backlight.
- Includes all tools required for conversion.
- Wide compatibility for bicycles with 34-36mm diameter bottom brackets (68-73mm width), suitable for V-brake and disc brake (not backpedal brake), and chain drive (not belt drive).
- 36V 13Ah downtube battery with 30A BMS for overload, over-discharge, over-current, and short circuit protection, offering 800-1000 cycles.

## Product in Action

Your browser does not support the video tag.

Video: A brief demonstration of the Bafang mid-drive motor in use on an electric bicycle.

## WHAT'S INCLUDED

Your BAFANG Electric Bike Conversion Kit comes with the following components:



Image: Comprehensive view of all components included in the Bafang Electric Bike Conversion Kit.

- Mid-drive Motor (BBS01B 36V 250W)
- C18 Display
- 13Ah Downtube Battery
- E-Brake Levers
- 46T Chainring & Guard
- Speed Sensor
- Crank Arms
- 1T4 Cable
- Locking Nuts
- Front Lamp
- Thumb Throttle
- Wrench
- Gloves
- Cable Ties
- Crank Removal Tools

## COMPATIBILITY CHECK

Before installation, ensure your bicycle meets the following compatibility requirements:

### Does this motor work for my bike?

**Make sure your bike has a 68mm bottom bracket**

Dimension A: 200mm    Dimension B: 112mm  
Dimension C: 68mm    Dimension D: 159mm



Diagram showing the motor assembly with dimensions A, B, C, and D. Dimension A is the total length, B is the motor body length, C is the bottom bracket length, and D is the motor mounting bracket length.



68mm  
34.5mm

**See if the inner diameter of bottom bracket is 34.5mm**

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



Diagram showing the motor assembly with dimensions for sprocket clearance: 68mm, 34mm, 50mm, 67.5mm, 46mm, 93mm, and 185mm.



Close-up of the chain and sprocket with a red circle indicating clearance.



**NOT SUGGEST**

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

Image: Visual guide for checking bike frame and bottom bracket compatibility.

- **Bottom Bracket:** Must have a diameter between 34-36mm and a width between 68-73mm.
- **Brake Type:** Suitable for V-brake and disc brake systems. Not compatible with backpedal brakes.
- **Drivetrain:** Only suitable for chain drive systems. Not compatible with belt drive.
- **Frame Material:** Installation on carbon fiber frames is NOT suggested.

## INSTALLATION GUIDE

Follow these steps carefully to install your BAFANG mid-drive conversion kit. For a visual guide, please refer

to the official installation video below.

## Installation Video

Your browser does not support the video tag.

Video: Step-by-step installation guide for the Bafang e-bike conversion kit.

## Step-by-Step Instructions

1. **Remove Existing Components:** Carefully remove the chainring, crank arms, and bottom bracket from your bicycle.
2. **Install Chainring:** Attach the new chainring to the motor using the provided M5 bolts.
3. **Install Chain Guard:** Secure the chain guard using the supplied screws.
4. **Mount Motor:** Slide the motor assembly into the bottom bracket shell of your bike frame.
5. **Secure Motor:** Use the Y-shaped motor mount bracket on the left side to secure the motor.
6. **Install Crank Arms:** Attach the crank arms to the motor spindle.
7. **Install Chain:** Route and install the chain onto the new chainring and rear cassette.
8. **Connect Wiring Harness:** Connect the main wiring harness into the motor assembly.
9. **Connect Peripherals:** Connect the front lamp, speed sensor, and gear sensor (if applicable) to the main harness.
10. **Install Brake Levers:** Slide the brake levers onto the handlebar and tighten them securely.
11. **Install Thumb Throttle:** Install the thumb throttle onto the handlebar and tighten.
12. **Install Display:** Mount the C18 display to your handlebars and secure it.
13. **Install Battery Mount:** Securely install the battery mount onto your bike frame, typically on the downtube.
14. **Install Battery:** Slide the battery onto the installed battery mount until it clicks into place.





Image: Detailed wiring diagram for connecting all components of the Bafang kit.

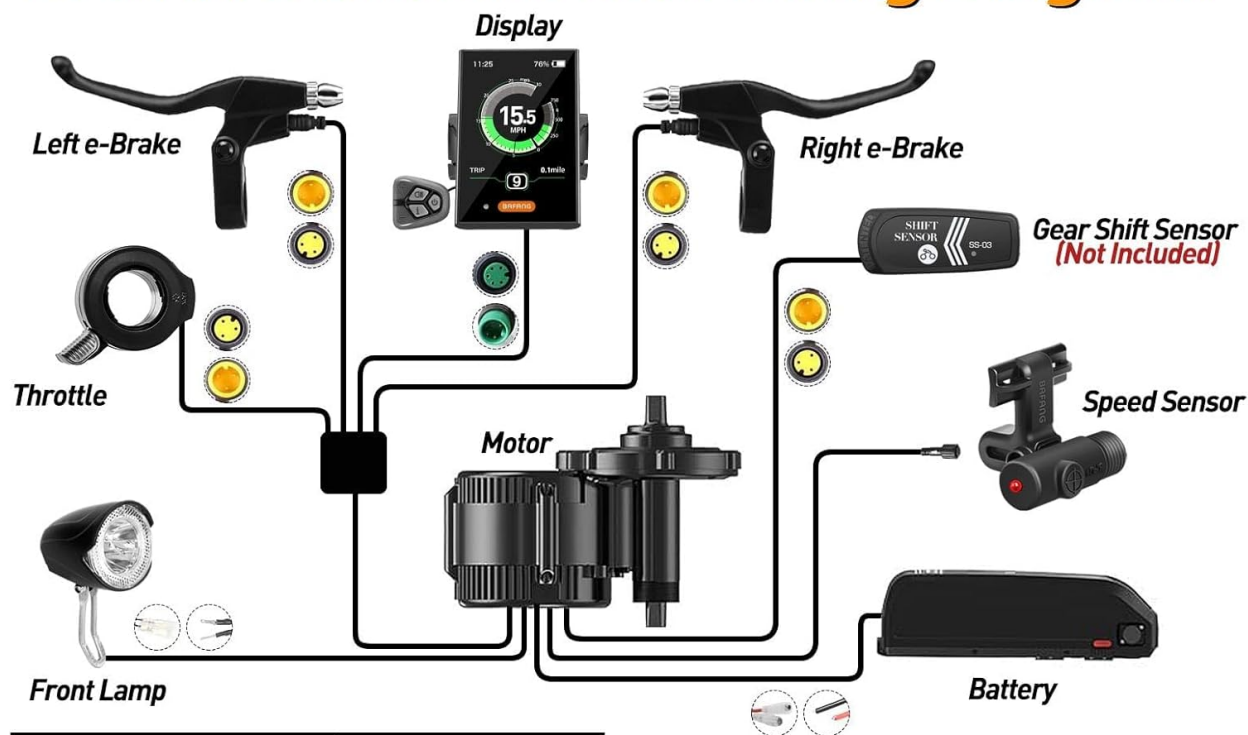
## OPERATING INSTRUCTIONS

Once installed, power on your e-bike and familiarize yourself with the C18 display and pedal assist functions.

### Power On and System Check

Press and hold the power button on the C18 display to turn on the system. The display will show battery level, speed, and pedal assist level.

# BAFANG Mid Drive Kit Wiring Diagram



MAIN HARNESS CONNECTION			
Connection Number	Display Connection	Wire Colors	
1	P+	Brown	
2	PL	Orange	
3	RxD	Green	
4	Brake Signal	White	
5	TxD	Yellow	
6	+5 volts	Red	
7	Throttle Signal	Blue	
8	Ground	Black	

THROTTLE HARNESS CONNECTION			
Connection Number	Throttle Connection	Wire Colors	
6	+5 volts	Red	
7	Throttle Signal	Blue	
8	Ground	Black	

DISPLAY HARNESS CONNECTION			
Connection Number	Display Connection	Wire Colors	
1	P+	Brown	
2	PL	Orange	
3	RxD	Green	
4	TxD	Yellow	
5	Ground	Black	

BRAKE HARNESS CONNECTION			
Connection Number	Brake Connection	Wire Colors	
4	Brake Signal	White	
6	+5 Volts	Red	
8	Ground	Black	

Image: The Bafang C18 display, showing key ride information.

## Pedal Assist Modes

The C18 display offers 9 levels of pedal assist. Use the up/down buttons to adjust the assist level. Higher levels provide more motor assistance.

- **Pure Throttle Mode:** Engage the thumb throttle for motor power without pedaling.
- **Pedal Assist Mode:** The motor provides assistance as you pedal, with 9 adjustable levels.
- **Walk Assist Mode:** Provides low-speed assistance for walking the bike.
- **Manual Mode:** Ride the bike without any motor assistance.

# BAFANG Mittelmotor

Rated Power

**36v 250w**

Max. Speed

**25KM/H**

Max. Torque

**80NM**

Weight

**3,8KG**



Pure Throttle Mode



Pedal Assist Mode



Walk Assist Mode



Manual Mode



Image: Bafang motor specifications and available riding modes.

## MAINTENANCE

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

### Battery Care

- Charge the battery regularly, even when not in use, to maintain its health.
- Avoid fully discharging the battery.
- Store the battery in a cool, dry place.
- The built-in 30A BMS protects against overcharge, over-discharge, over-current, and short circuits.

### Motor and Drivetrain

- Keep the chain and chainring clean and lubricated.

- Periodically check all bolts and connections for tightness.
- Ensure the speed sensor is clean and properly aligned.

### General Inspection

- Regularly inspect all wiring for any signs of wear or damage.
- Check brake functionality and adjust as needed.
- Keep the display clean and protected from harsh weather.

## TROUBLESHOOTING

If you encounter issues with your BAFANG e-bike kit, refer to the common problems and solutions below.

### Common Issues

**Motor not turning on / No power:**

- Check battery charge level.
- Ensure all electrical connections are secure, especially the main wiring harness to the motor and battery.
- Verify the display is properly connected and powered on.
- Inspect for any visible damage to cables or connectors.

**Chain skipping:**

- Ensure the chainring is correctly installed and tightened.
- Check chain tension and condition; a worn chain may need replacement.
- Verify the chain guard is not interfering with chain movement.

**Motor not assisting / inconsistent power:**

- Check the pedal assist level on the C18 display.
- Ensure the speed sensor is clean, properly mounted, and its magnet is correctly aligned with the sensor.
- Verify the throttle connection if using throttle mode.

## SPECIFICATIONS

Feature	Detail
Brand	BAFANG
Model Name	G340
Part Number	eBIKE-KIT-G340-36V-250W-46T-C18-13Ah



Feature	Detail
Motor Type	Mid-drive (BBS01B)
Motor Power	36V 250W
Max Torque	80NM
Battery Capacity	13Ah (36V)
Battery BMS	Built-in 30A BMS
Display	3.5" Bafang C18 Display
Pedal Assist Levels	9 Levels
Item Weight	6.6 Kilograms (Kit)
Bottom Bracket Compatibility	34-36mm diameter, 68-73mm width
Brake Compatibility	V-brake, Disc brake (not backpedal)
Drivetrain Compatibility	Chain drive only

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact BAFANG customer service directly. Protection plans may also be available for extended coverage.