

BAFANG BBS01 BBS02 BBSHD Crank Arm

BAFANG 170mm Crank Arm User Manual

For BBS01, BBS02, and BBSHD Electric Bicycle Conversion Kits

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your BAFANG 170mm Aluminum Alloy Crank Arms. Please read this manual thoroughly before installation and retain it for future reference. Incorrect installation or maintenance can lead to product damage or personal injury.

Safety Information

- Always wear appropriate safety gear when working on bicycles.
- Ensure all tools are in good condition and used correctly.
- If you are unsure about any step, consult a professional bicycle mechanic.
- Keep small parts away from children.

2. PRODUCT OVERVIEW

The BAFANG 170mm Crank Arms are designed as replacement or upgrade components for electric bicycle conversion kits, specifically compatible with BBS01, BBS02, and BBSHD systems. Manufactured from high-quality aluminum alloy, these crank arms offer durability and reliable performance.

Key Features

- **Material:** High-quality Aluminum Alloy.
- **Length:** 170mm hole spacing, 210mm total length.
- **Spindle Interface:** Available in Diamond Interface and Square Interface.
- **Compatibility:** Designed for BAFANG BBS01, BBS02, and BBSHD electric bicycle conversion kits.

Package Contents

- 1 Pair of BAFANG 170mm Crank Arms (Left and Right)
- 2 x Screws for installation



Image 2.1: Top view of the BAFANG 170mm Aluminum Alloy Crank Arms, showing the spindle interface and pedal threads.

3. SETUP AND INSTALLATION

Careful installation is crucial for the safety and performance of your bicycle. Ensure you have the correct tools, including a crank puller and a wrench for the pedal threads.

Compatibility Check

- **Spindle Interface:** Verify the interface type of your existing bottom bracket or motor spindle (Diamond or Square) matches the new crank arms. Both left and right crank arms must have the same hole type.
- **Hole Spacing:** Confirm that the 170mm hole spacing length is compatible with your current setup. The total length of each crank arm is 210mm.
- **Pedal Thread Size:** The pedal threads are standard 9/16 inch. Ensure your pedals are compatible.



Image 3.1: Angled view of the BAFANG crank arms, highlighting the spindle connection point.

Installation Steps

1. **Remove Old Crank Arms:** Use a crank puller tool to carefully remove your existing crank arms from the bicycle's bottom bracket or motor spindle.
2. **Clean Spindle:** Clean the spindle of the bottom bracket or motor to ensure a secure fit.
3. **Identify Left and Right:** The new crank arms are marked 'L' for left and 'R' for right. Install the 'L' crank arm on the non-drive side and the 'R' crank arm on the drive side.
4. **Install New Crank Arms:** Slide the appropriate crank arm onto its respective spindle. Ensure it is fully seated.
5. **Secure Crank Arms:** Use the provided screws to secure the crank arms to the spindle. Tighten them firmly, but do not overtighten, to prevent stripping threads.
6. **Install Pedals:** Thread your pedals into the new crank arms. Remember that the left pedal has a left-hand thread (tightens counter-clockwise), and the right pedal has a right-hand thread (tightens clockwise). Apply a small amount of grease to the pedal threads before installation to prevent seizing.



Image 3.2: Bottom view of the BAFANG crank arms, showing the pedal thread and the 'L' marking for the left crank arm.

4. OPERATING AND USAGE

Once installed, the crank arms function as the connection point between your pedals and the bicycle's drivetrain. Proper usage involves regular riding and awareness of any unusual sounds or feelings.

- Ensure pedals are always securely tightened before each ride.
- Avoid excessive force or impact on the crank arms, which can lead to bending or damage.
- If you notice any looseness in the crank arms or pedals during a ride, stop immediately and inspect the components.

5. MAINTENANCE

Regular maintenance extends the lifespan of your crank arms and ensures safe operation.

- **Cleaning:** Periodically clean the crank arms with a mild detergent and water. Avoid harsh chemicals that could damage the finish.
- **Inspection:** Regularly inspect the crank arms for any signs of cracks, bends, or wear, especially around the spindle interface and pedal threads.
- **Tightness Check:** Check the tightness of the crank arm fixing bolts and pedal threads periodically, especially after the first few rides.
- **Bottom Bracket Life:** If you frequently replace crank arms, be aware that the bottom bracket's lifespan may be limited. It is recommended to replace the bottom bracket after approximately two crank arm replacements to ensure optimal performance and prevent premature wear.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your crank arms.

Issue: Crank arm feels loose or wobbly.

- **Solution:** Check the tightness of the crank arm fixing bolt. If it continues to loosen, inspect the spindle interface for wear or damage. Ensure the crank arm is fully seated on the spindle.

Issue: Pedals are difficult to install or feel loose.

- **Solution:** Ensure you are threading the pedals correctly (left pedal is reverse threaded). Apply grease to threads. If threads are stripped, the crank arm may need replacement.

Issue: Crank arm does not fit the bicycle.

- **Solution:** Re-verify the spindle interface type (Diamond vs. Square) and the hole spacing (170mm) against your bicycle's requirements. Some exercise bikes or specific e-bike models may have unique dimensions.

7. SPECIFICATIONS

Feature	Specification
Brand	BAFANG
Model Compatibility	BBS01, BBS02, BBSHD Electric Bicycle Conversion Kits
Material	Aluminum Alloy
Hole Spacing Length	170mm
Total Length	210mm
Spindle Interface Modes	Diamond Interface, Square Interface
Pedal Thread Size	9/16 inch
Item Weight	0.45 Kilograms (for the pair)
Included Components	A pair of crank arms, 2 screws
Country of Origin	China

8. WARRANTY AND SUPPORT

BAFANG products are manufactured to high standards. For specific warranty details, please refer to the product packaging or contact your retailer. Keep your proof of purchase for any warranty claims.

Customer Support

For technical assistance or inquiries regarding your BAFANG crank arms, please contact the retailer where the product was purchased. They can provide guidance or direct you to the appropriate support channels.

