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BAFANG JJ US CAN 48V750W68MM-44T-DPC010

BAFANG 48V 750W Mid Drive Kit

BBS02B CAN Bus Electric Bike Conversion Kit with Dpc010 Display

Model: JJ US CAN 48V750W68MM-44T-DPC010

1. Product Overview

The BAFANG 48V 750W Mid Drive Kit is designed to convert standard bicycles into powerful electric bikes. This kit features a robust BBS02B CAN Bus mid-drive motor, offering enhanced stability and communication functions. It is compatible with most mountain bikes, road bikes, and commuter bikes, provided they have a 68-73mm bottom bracket and 33.5-36mm internal diameter. Please note: This kit is not suitable for carbon fiber frames or bikes with pedal brakes.

Figure 1.1: Overview of the BAFANG 48V 750W Mid Drive Kit components, including the motor, display, and various accessories.

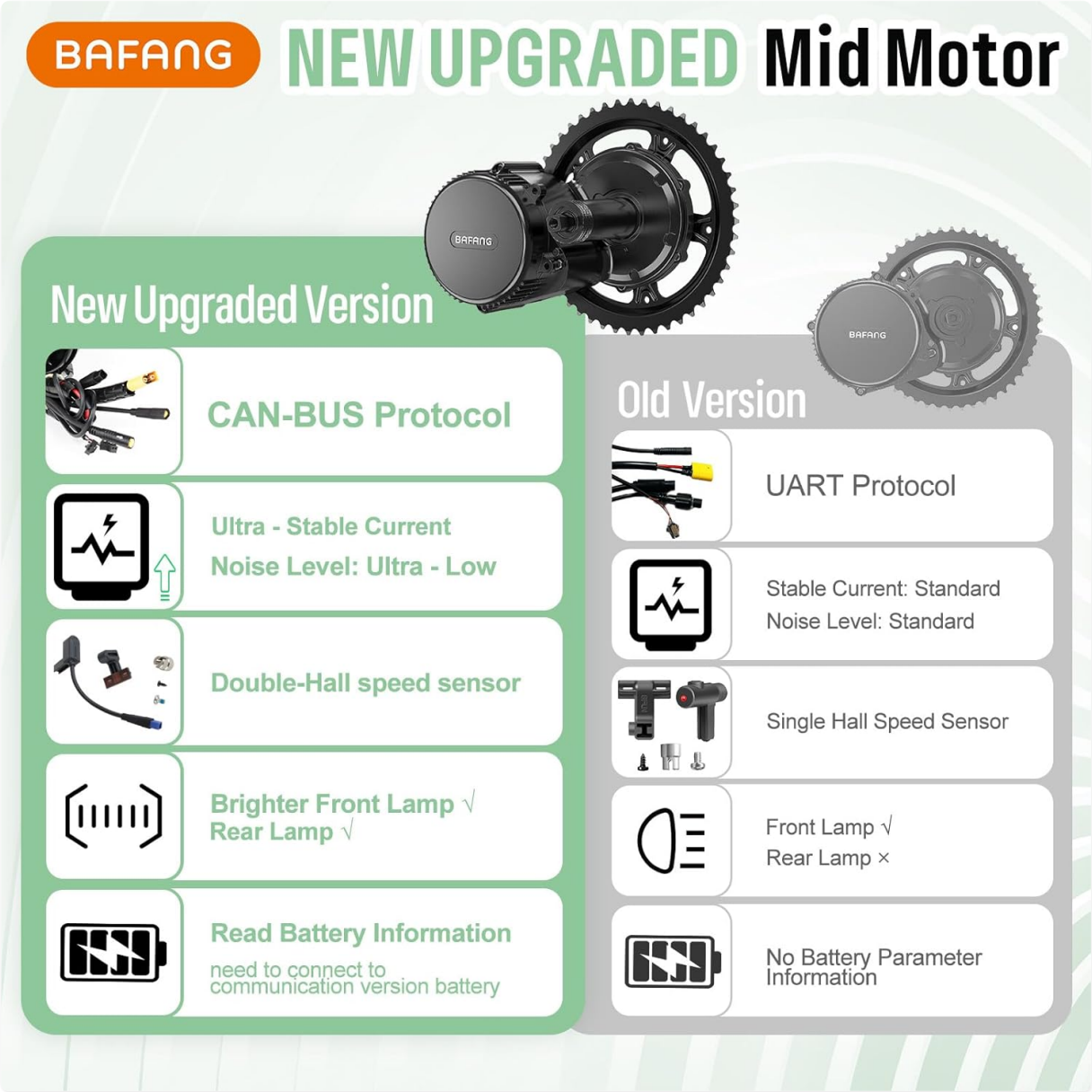

Figure 1.2: This image highlights the key upgrades of the new CAN-BUS protocol version compared to the older UART protocol, including ultra-stable current, ultra-low noise level, dual-Hall speed sensor, brighter lamp support, and battery information reading capabilities.

2. Setup and Installation

Proper installation is crucial for optimal performance and safety. Please follow these steps carefully. Refer to the provided video for visual guidance.

Your browser does not support the video tag.

Video 2.1: Official BAFANG BBS Mid Drive Motor Installation Video. This video provides a step-by-step guide for installing the mid-drive motor and associated components on a bicycle frame.

2.1. Compatibility Check

Before beginning installation, ensure your bike's bottom bracket length is 68-73mm and the internal diameter is between 33.5-36mm. This kit is designed for standard bicycle frames and is not compatible with carbon fiber frames or bikes with pedal brakes.

Figure 2.1.1: Detailed guide on how to check if the BAFANG mid-drive motor fits your bike's bottom bracket and to ensure chainring clearance. It also specifies incompatible frame types.

2.2. Component Identification

Familiarize yourself with all components included in your kit. The package typically includes the BAFANG 48V 750W CAN Bus BBS02B ebike conversion kit, ebike display (Dpc010), sprocket (44T default), Dual Hall speed sensor and magnet, mechanical brake lever or brake sensor, crank, 1T4 EB-BUS cable, thumb throttle, locking nut, installation tool, and headlight.

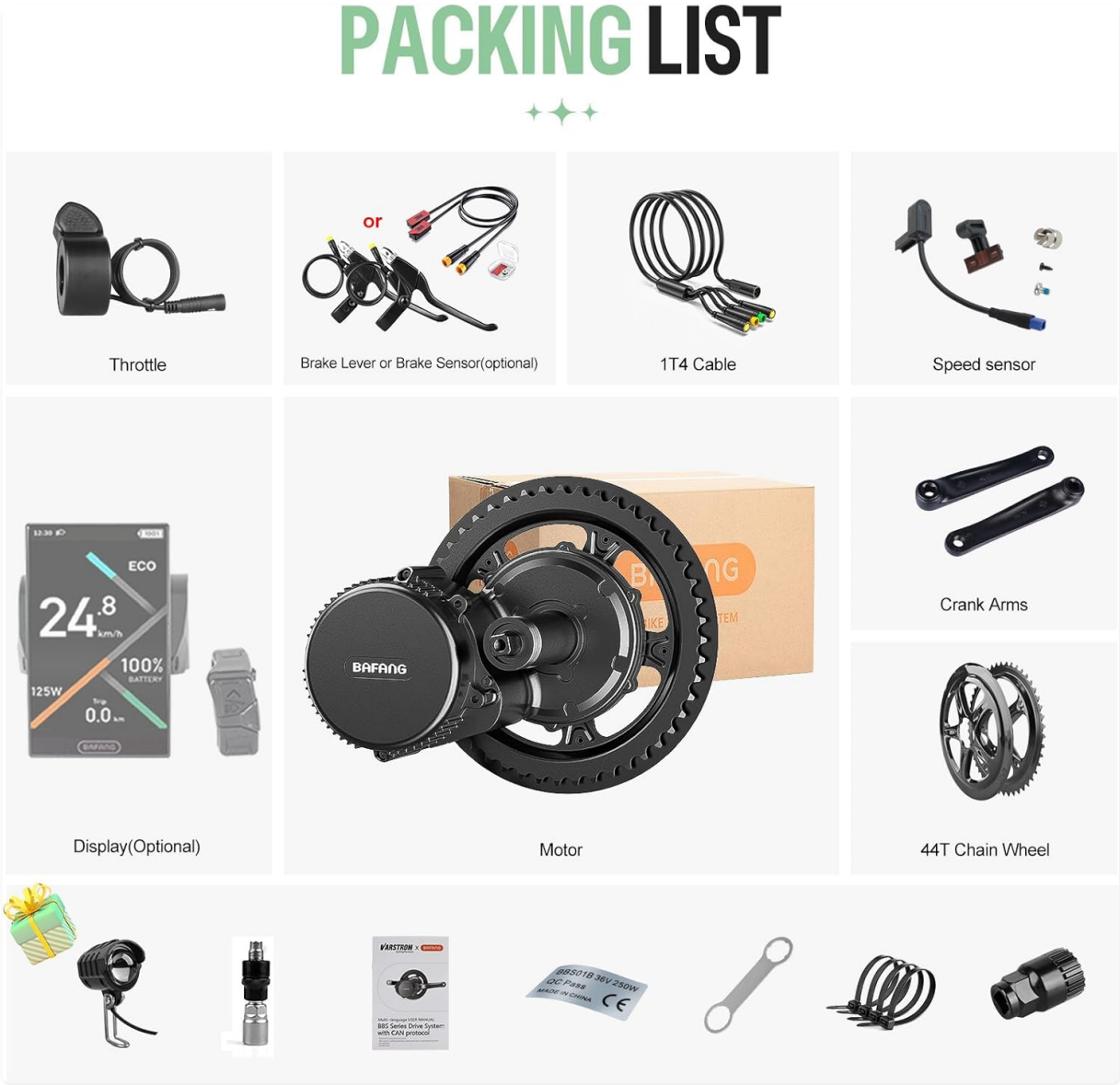

Figure 2.2.1: A visual representation of the typical packing list for the BAFANG Mid Drive Kit, showing all included components such as the motor, display, throttle, brake levers, and various cables and tools.

2.3. Crankset Removal

Remove the existing crankset from your bicycle. This typically involves removing the left crank arm using a crank arm puller, then removing the chainwheel and the bottom bracket. Ensure the bottom bracket shell is clean and free of debris before proceeding.

2.4. Mid-Drive Motor Installation

Attach the 44T chainwheel (or your preferred size) to the BAFANG motor. Carefully insert the motor into the bottom bracket shell. Secure the motor using the provided Y-shaped motor mount bracket and locking nuts. Ensure all bolts are tightened securely to prevent movement during operation.

2.5. Display and Controls Mounting

Mount the Dpc010 display and other controls (thumb throttle, brake levers/sensors) onto the handlebar. The Dpc010 display offers a 4-inch IPS screen with advanced features like password protection, brightness settings, PAS level adjustment, and real-time speed/battery graphic. It also supports the BAFANG GO+ APP for parameter modification.

Figure 2.5.1: Features of the DPC010 LCD display, including screen size, advanced password, brightness settings, PAS levels, holder size, and adjustable motor/ride parameters via APP or Display.

Figure 2.5.2: Illustrates the intelligent connection with the BAFANG GO+ App, allowing users to generate routes, adjust motor and ride parameters, and view battery information directly from their smartphone or the display.

2.6. Wiring and Cable Management

Connect all cables according to the wiring diagram. Use the provided zip ties to neatly secure cables along the bike frame, ensuring they do not interfere with moving parts or pose a safety hazard. The kit includes a 1T4 EB-BUS cable for connecting the motor with brake levers, display, and thumb throttle.

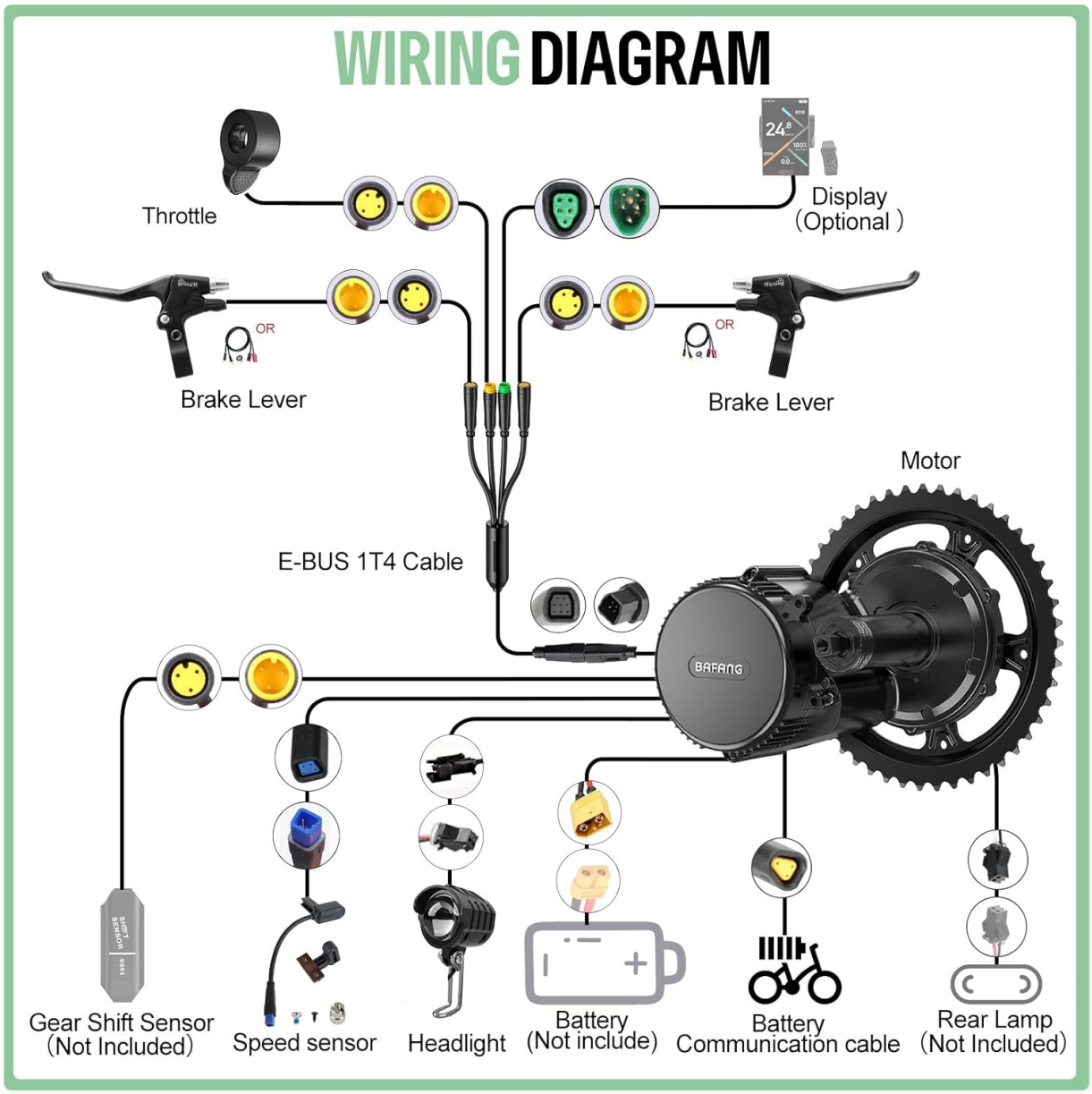

Figure 2.6.1: A comprehensive wiring diagram showing how to connect all components of the BAFANG Mid Drive Kit, including the motor, display, throttle, brake levers, speed sensor, and battery connections.

2.7. Speed Sensor and Brake Sensor Installation

Install the Dual Hall speed sensor and magnet. Ensure a distance of 5-8mm between the sensor and the magnet for accurate readings. If using mechanical brake levers, the kit provides replacements with motor inhibitors that cut off motor power when activated. Alternatively, brake sensors can be installed on hydraulic brakes to achieve the same motor cut-off function.

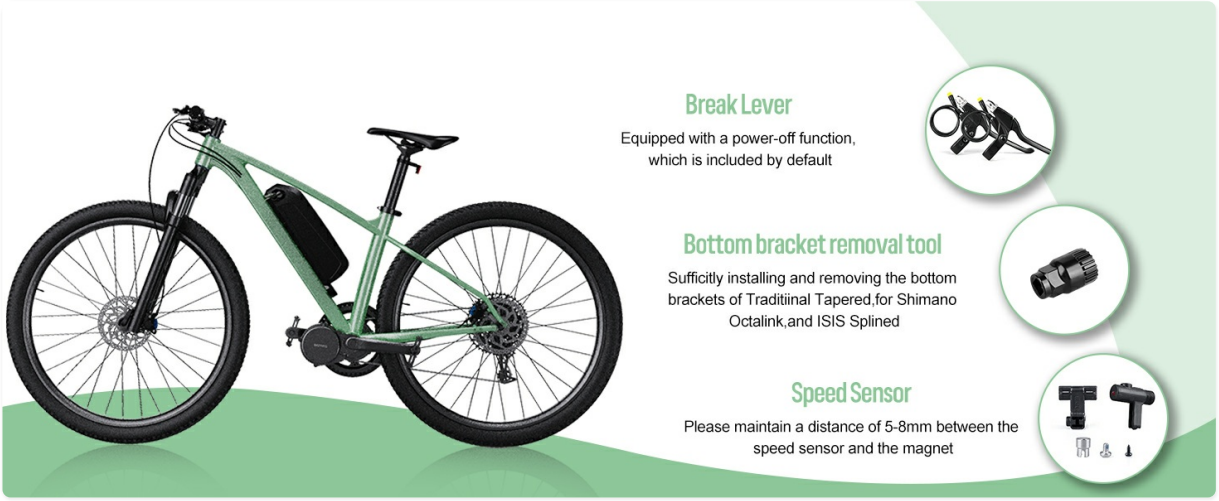

Figure 2.7.1: Illustrates the brake lever (with power-off function), bottom bracket removal tool, and speed sensor included in the kit. The speed sensor requires a 5-8mm distance from the magnet for proper function.

3. Operating Instructions

3.1. Powering On/Off

To power on the system, press and hold the power button on the Dpc010 display. To power off, press and hold the same button. The display will show a "HELLO" message upon startup.

3.2. Riding Modes

The BAFANG mid-drive system supports multiple riding modes:

- **Pure Electric Mode:** Utilizes only the motor for propulsion via the thumb throttle.
- **Pedal Assisted Mode (PAS):** Provides motor assistance based on your pedaling input. The level of assistance can be adjusted via the display.
- **Walking Assisted Mode:** Provides low-speed assistance for walking the bike.
- **Physical Riding Mode:** The motor is disengaged, and the bike operates like a standard bicycle.

Figure 3.2.1: Visual representation of the BAFANG CAN-BUS Mid Drive Motor highlighting its various connectors and supported riding modes: Pure Electric, Pedal Assisted, Walking Assisted, and Physical Riding.

3.3. Display Navigation

Use the buttons on the display to navigate through different screens, view ride data (speed, distance, battery level), and adjust settings such as PAS levels, maximum speed, and power output for each support level. The Dpc010 display allows for parameter modification directly on the display or via the BAFANG GO+ APP.

Figure 3.3.1: A comparison table of various BAFANG displays, including EKD01, DPC010, DPC080, VD03, VD618, VD61, and P860ML, detailing their screen size, battery indicator, holder size, speed limit, compatible voltage, light sensation, PAS level, and USB port availability.

4. Maintenance

Regular maintenance ensures the longevity and safe operation of your BAFANG Mid Drive Kit.

- **General Cleaning:** Keep the motor, battery, and display clean. Use a damp cloth to wipe down surfaces. Avoid high-pressure washing directly on electrical components.
- **Battery Care:** Store the battery in a cool, dry place. Avoid extreme temperatures. Charge the battery regularly, even when not in use, to maintain its health.
- **Motor and Drivetrain:** Periodically check the motor mounting bolts for tightness. Keep the chain and gears clean and lubricated. Inspect the chainring for wear.
- **Cables and Connections:** Regularly inspect all cables and connectors for any signs of wear, damage, or loose connections. Ensure they are securely fastened to the frame.
- **Brakes:** Check brake pads for wear and ensure brake levers/sensors are functioning correctly, cutting off motor power when applied.

5. Troubleshooting

This section addresses common issues you might encounter with your BAFANG Mid Drive Kit.

- **No Power to Display/Motor:**
  - Check battery connection and ensure it is fully charged.
  - Verify all cable connections are secure, especially the 1T4 EB-BUS cable.
- **Motor Not Assisting:**
  - Ensure PAS level is set above 0 on the display.
  - Check the speed sensor and magnet alignment (5-8mm gap). The sensor's LED should blink when the magnet passes.
  - Verify brake levers/sensors are not engaged, as they cut off motor power.
- **Display Error Codes:**
  The Dpc010 display may show error codes. Refer to the comprehensive BAFANG display manual (not included here) for specific error code meanings and troubleshooting steps. Common issues often relate to sensor disconnections or motor communication problems.
- **Unusual Noises from Motor:**
  - Check for loose mounting bolts on the motor.
  - Inspect the chainring and chain for proper alignment and lubrication.

If issues persist, please contact BAFANG customer support for assistance.

6. Specifications

Feature	Specification
Brand	BAFANG
Model	BBS02B CAN Bus
Power	48V 750W
Torque	120N.m
Bottom Bracket Compatibility	68-73mm length, 33.5-36mm internal diameter
Display	Dpc010 Display (4" IPS Screen)
Chainwheel	44T (default)
Material	Aluminum
Color	Black
Item Package Dimensions	12.4 x 11 x 9.6 inches
Package Weight	12 Pounds

7. Warranty and Support

7.1. Warranty Information

The BAFANG 48V 750W Mid Drive Kit comes with a 30-day return policy and a 365-day repair or replace

warranty. Please retain your proof of purchase for warranty claims.

7.2. Customer Support

BAFANG provides professional technical support to assist you with any questions or issues. For timely and personalized support, please follow these steps:

1. Log in to your Amazon account.
2. Navigate to 'Account & Lists' → 'Orders'.
3. Locate your order for the BAFANG Mid Drive Kit.
4. Click 'Get Help with Order'.
5. Enter your message detailing the issue.
6. Send Email.

We are committed to providing excellent customer service and ensuring a worry-free experience after your purchase.

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