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› [BAIZIFU 250W Electric Bike Conversion Kit User Manual](#)

BAIZIFU HL-943I-206J

BAIZIFU 250W Electric Bike Conversion Kit User Manual

Model: HL-943I-206J

1. PRODUCT OVERVIEW

The BAIZIFU 250W Electric Bike Conversion Kit is designed to transform a standard bicycle into an electric bike. This kit includes a brushless motor and a controller, suitable for 36V to 48V lithium and lead-acid batteries. It offers an efficient and convenient way to enhance your cycling experience.

2. WHAT'S INCLUDED

- Electric Motor Unit
- Controller
- Throttle Grip
- Wiring Harness
- Mounting Hardware
- Charger (if specified in package)
- E-Bike Accessory Kit

3. COMPATIBILITY AND IMPORTANT NOTES

Before installation, please review the following compatibility requirements and notes:

- Suitable for 36V-48V lithium and lead-acid batteries.
- Not suitable for bicycles with wheels under 16 inches.
- Not compatible with 4.0 tires, tubeless tires, or solid tires.
- The final performance is influenced by the bicycle tire type and installation quality.
- If your bicycle tires are aged, replace them before installation to prevent excessive wear.
- Deep tread pattern tires may increase the risk of skidding in wet conditions.

Bicycle Frame Compatibility

Ensure your bicycle frame meets the following criteria for proper installation:

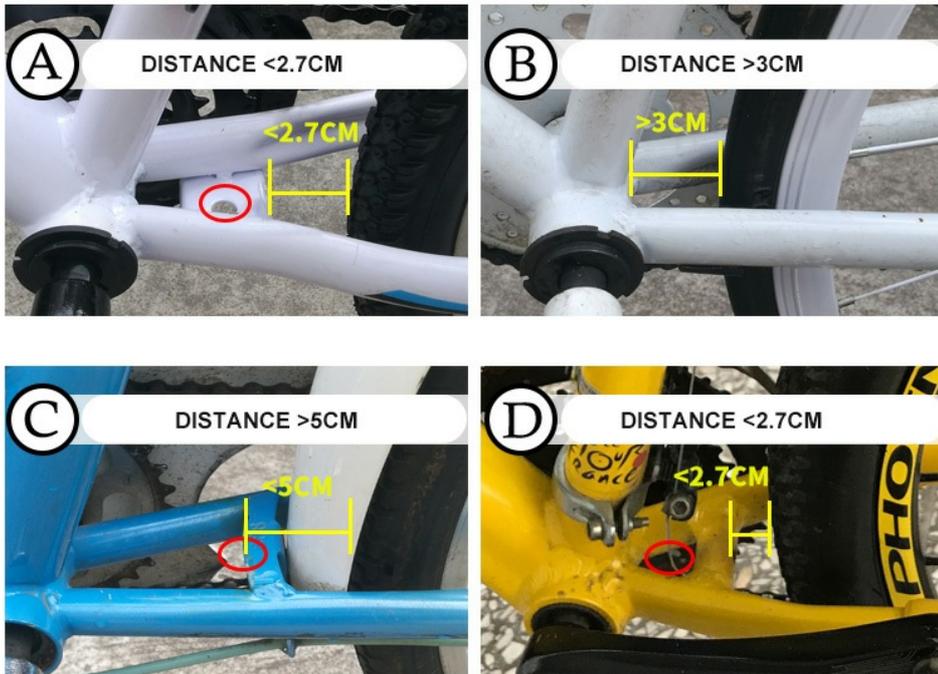


Image: Bicycle frame compatibility guide. Check the distances (A, B, C, D) on your frame to ensure proper fit.

Refer to the image above to confirm your bicycle's frame dimensions are suitable. A minimum gap of 2.7cm is generally required for mountain bikes, cycling road bikes, and commuter bikes. Bicycles over 16 inches with a back fork are generally suitable. Bicycles without a back fork, with a spring in the back fork, or without an installation location are not suitable. 4.0 snow tires are also not supported.

Tire Type Compatibility

The most suitable tires for this conversion kit are bald tires or obscure tires. If your bicycle has a quick-release screw washer that is higher than 2.8cm, it may need to be removed for proper installation.

ADAPTED MODELS

The most suitable tires are bald tires and obscure tires



Here is higher than 2.8cm, need to remove the quickrelease screw washer



Image: Examples of adapted bicycle models and suitable tire types, including a note about removing a quick-release screw washer if it's too high.

4. SETUP AND INSTALLATION

Follow these steps carefully for proper installation of your electric bike conversion kit.

Installation Steps Overview

BE CAREFUL WHEN INSTALLING



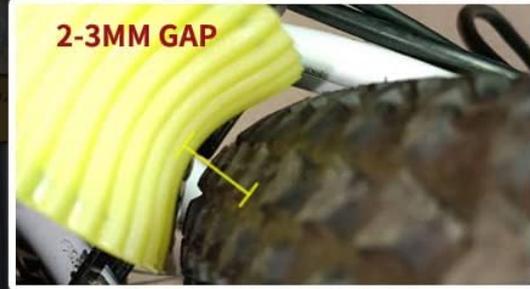
THE CLUTCH SWITCH IS TURNED ON, IN A BOOST STATE



THE FRICTION WHEEL BITES THE TIRE TIGHTLY



THE CLUTCH SWITCH IS RELEASED AND IS IN A NON-ASSIST STATE



THE DISTANCE BETWEEN THE FRICTION WHEEL AND THE TIRE IS 2-3MM

4.0 TIRES, TUBELESS TIRES, AND SOLID TIRES ARE NOT SUPPORTED. CAN NOT BE INSTALLED UNDER GENERAL 16 INCHES.

Image: Visual guide showing the main installation steps, from preparing accessories to tightening screws and ensuring proper clutch line rotation.

1. **Prepare:** Gather your bicycle and all kit accessories.
2. **Clutch Switch:** Pull the clutch switch to the snap position.
3. **Install Baffle Plate:** Install the fixed baffle plate and insert the quick screw into the fixed baffle.
4. **Friction Wheel Gap:** Ensure the distance between the friction wheel and the tire is 2-3mm.
5. **Rotate and Tighten:** Rotate and tighten the screws securely.
6. **Clutch Line:** When installing and turning the clutch line, ensure it is rotated in a large arc to prevent damage.

Important Installation Considerations

INSTALLATION STEPS



Image: Close-up views illustrating the clutch switch in ON (boost) and released (non-assist) states, and the required 2-3mm gap between the friction wheel and the tire.

- The clutch switch, when turned ON, engages the boost state.
- Ensure the friction wheel bites the tire tightly when engaged.
- When the clutch switch is released, the system is in a non-assist state.
- Maintain a 2-3mm gap between the friction wheel and the tire for optimal performance and to prevent wear.

Controller Wiring

Proper wiring of the controller is crucial for the kit's functionality. Refer to the diagram and video below for guidance.

Other controllers on the market are not compatible with our motors and are easy to break down

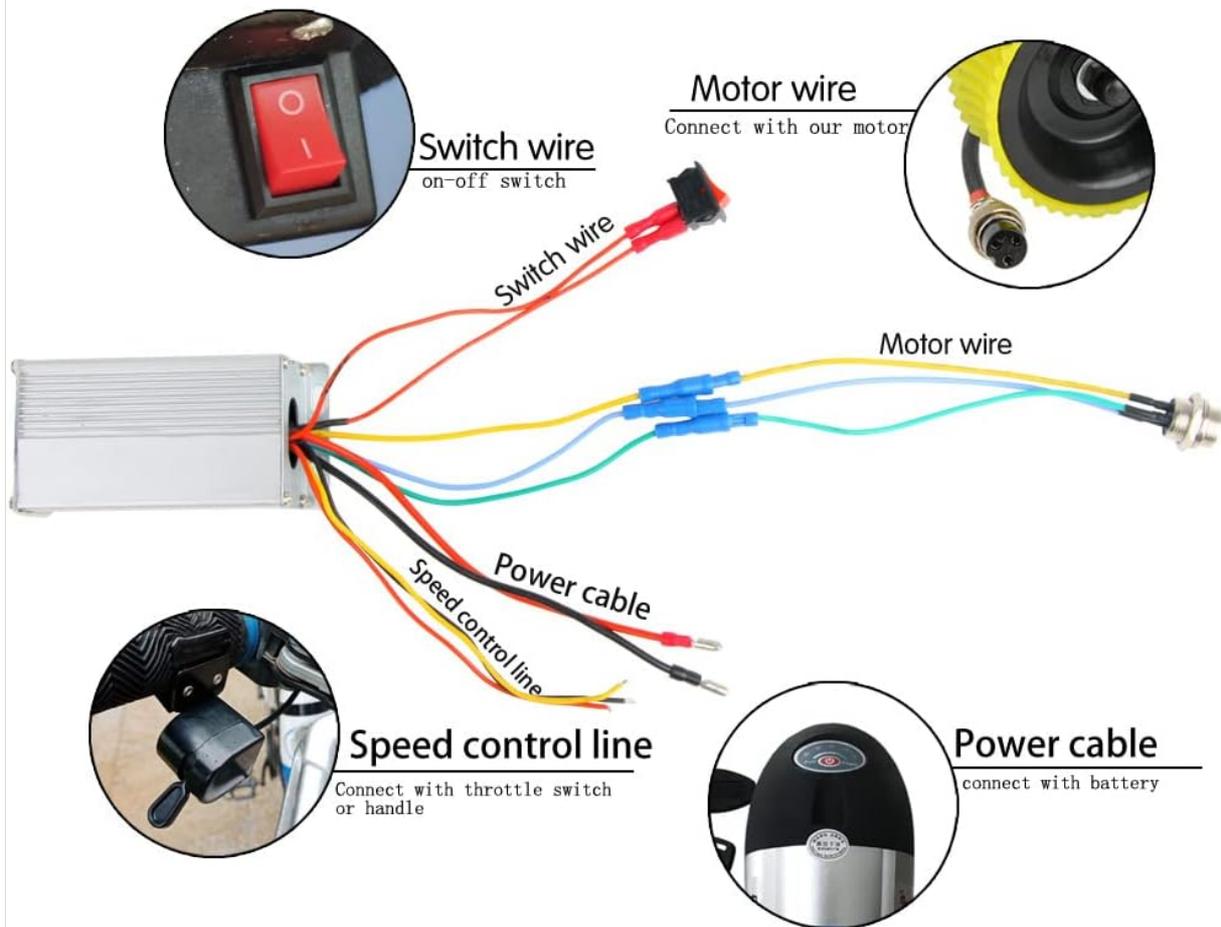


Image: Detailed wiring diagram for the controller, illustrating connections for the motor wire, power cable, on-off switch wire, and speed control line (throttle switch/handle).

Your browser does not support the video tag.

Video: Demonstrates how to connect the brushless motor and controller to power. This video is provided by Baizifu.

Note: Only use the provided controller with the BAIZIFU motor. Other controllers may not be compatible and could lead to malfunctions or damage.

5. OPERATING INSTRUCTIONS

Once installed, operate your electric bike by engaging the clutch switch for motor assistance. The motor provides power to assist your pedaling. Always ensure the friction wheel is properly engaged with the tire for effective power transfer.

Safety Precautions

- Always wear a helmet and appropriate safety gear when riding.
- Be aware of your surroundings and obey all traffic laws.
- Exercise caution when riding in wet conditions, especially with deep tread pattern tires, as they may skid easily.
- Regularly check all connections and mounting hardware to ensure they are secure.

6. MAINTENANCE

To ensure the longevity and optimal performance of your BAIZIFU Electric Bike Conversion Kit, follow these maintenance guidelines:

- **Tire Condition:** Regularly inspect your bicycle tires for wear and tear. Replace severely aged tires before using the kit to prevent damage to the friction wheel and ensure safe operation.
- **Friction Wheel:** Keep the friction wheel clean and free from debris to maintain good contact with the tire.
- **Connections:** Periodically check all electrical connections and mechanical fasteners for tightness.
- **Battery Care:** Follow the manufacturer's instructions for your specific 36V-48V battery for charging, storage, and general care.
- **Cleaning:** Clean the motor and controller units with a damp cloth. Avoid using high-pressure water jets directly on electrical components.

7. TROUBLESHOOTING

If you encounter issues with your electric bike conversion kit, consider the following common troubleshooting steps:

- **No Power:**
 - Check if the battery is charged and properly connected.
 - Verify all wiring connections are secure, especially the power cable to the controller and battery.
 - Ensure the on-off switch is in the 'ON' position.
- **Motor Not Engaging:**
 - Confirm the clutch switch is fully engaged.
 - Check the gap between the friction wheel and the tire (should be 2-3mm). Adjust if necessary.
 - Inspect the friction wheel for wear or damage.
- **Intermittent Power:**
 - Examine all wiring for loose connections or damage.
 - Ensure the battery has a stable charge.
- **Unusual Noises:**
 - Check for any foreign objects caught in the motor or friction wheel.
 - Ensure all mounting hardware is tight.

If these steps do not resolve the issue, please contact customer support for further assistance.

8. SPECIFICATIONS

Detailed technical specifications for the BAIZIFU Electric Bike Conversion Kit:

Feature	Specification
Brand	BAIZIFU
Model Number	HL-9431-206J
Voltage	36-48 Volts
Horsepower	250 Watts

Feature	Specification
Product Dimensions (Motor Unit)	16cm x 13cm x 8cm (6.3" x 5.1" x 3.1")
Controller Dimensions	9cm x 5cm x 3cm (3.54" x 1.96" x 1.18")
Material	Aluminum
Item Weight	2.73 Kilograms
UPC	781044582379
Waterproof (Controller)	Yes
Overheating Protection (Controller)	Yes

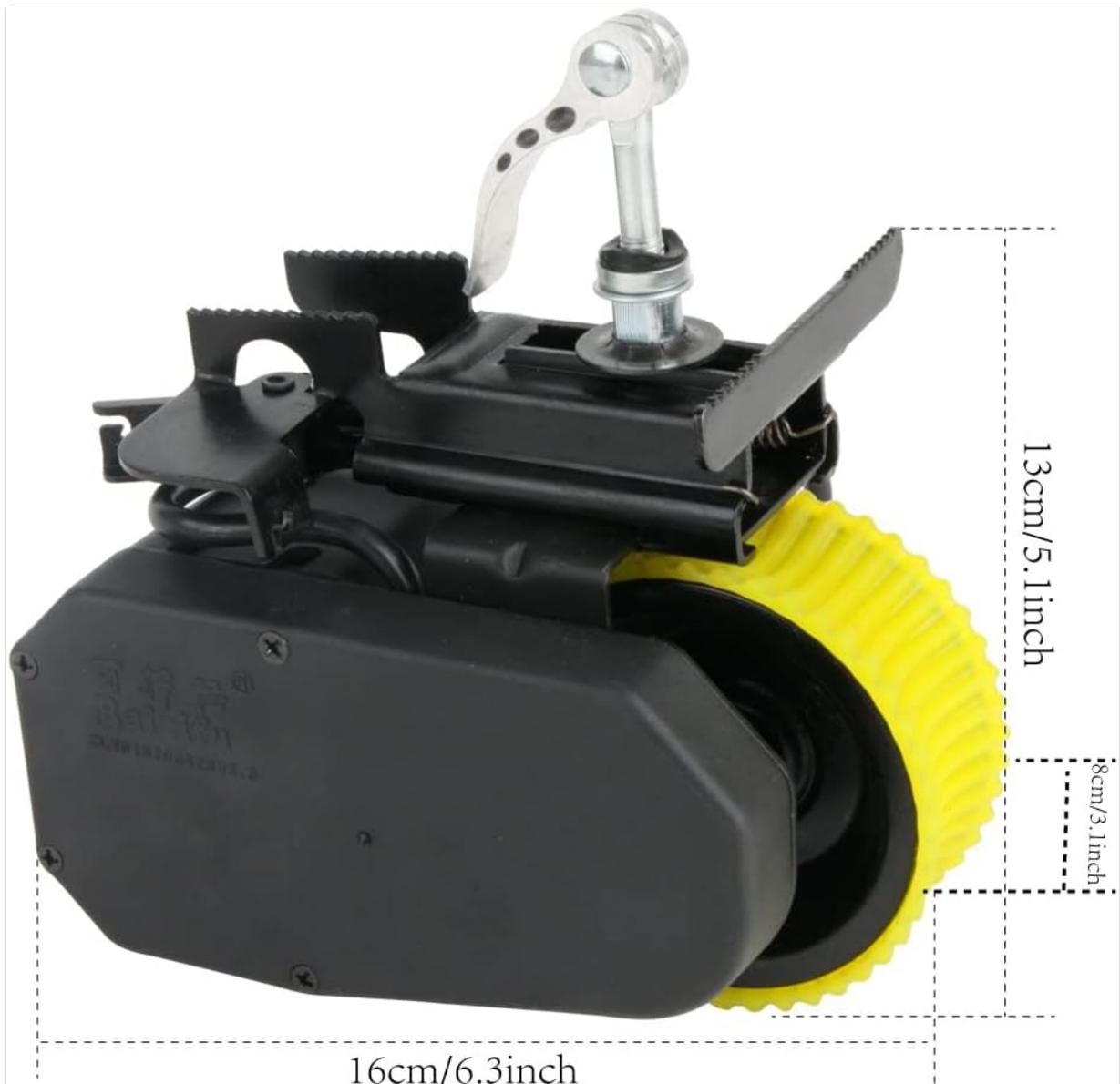


Image: Detailed dimensions of the electric bike motor unit, showing length, width, and height measurements.

Motor Controller			
Voltage supported	36V/48V	Is it waterproof?	YES
Power supported	150-300Watts	Overheating protection	YES

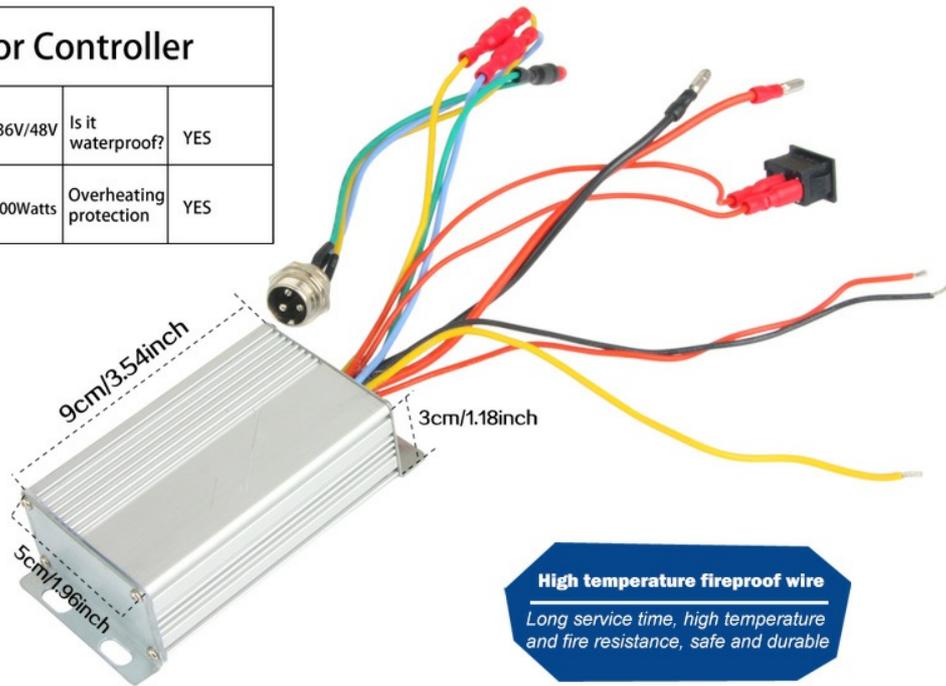


Image: Table showing controller specifications including voltage, power, waterproof status, and overheating protection, along with its dimensions.

9. WARRANTY AND SUPPORT

For any questions, technical assistance, or support regarding your BAIZIFU Electric Bike Conversion Kit, please contact our customer service. We are committed to providing timely responses and solutions to ensure your satisfaction.