WBP-Z8

Electric Bike Speed Booster Kit User Manual

48V 350W



Read this manual thoroughly before using, especially the safety warnings to evade risks.

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Disclaimer

Thank you for purchasing this product!

Improper operation may cause useless or even damage. We Strongly recommend you reading this manual carefully before using this product and strictly follow the prescribed operating procedures. We are not responsible for any liability reason arising from the misuse of this product, including but not limited to liability for direct or indirect loss or damage, and we do not assume any liability for unauthorized modifications for the product. We reserve the right to change product design, appearance, performance and usage requirements without prior notice to the buyer.

Please kindly note that this product is an electric assist device designed to enhance riding efficiency and noiseless running, suitable for regular bicycles and mountain bikes that are used on commuting and short journey, which doesn’t stand for replacing human power completely. Also, we suggest installing and using the device under adults’ supervision for users under 18 years old.

1. Product Features

1) Powerful BLDC Motor: This Electric Bike Speed Booster kit features 48V 350W brushless and gearless hub motor for efficiency improvement and quiet running which can convert your bicycle to electric bike and reach the maximum riding speed easily over 40%, applicable for regular bicycles and mountain bikes that are used on commuting and short journey. It transforms hill climbing be a breeze.

2) Durable & Convenient: The aluminum alloy frame enables it to be durable and stable. Driving system without moving chains or gears can be anti-friction. Also, thumb governor with 3 indicators is designed for displaying battery status to avoid stopping working caused by low battery suddenly.

3) Direction Adjustable: The clutch direction can be adjusted, and the motor movement direction can be adjusted.

4) Easy to Be Assembled: This booster kit includes necessary components for installation, so it's easy to assemble all the parts together for converting ordinary bicycles to electric bikes.

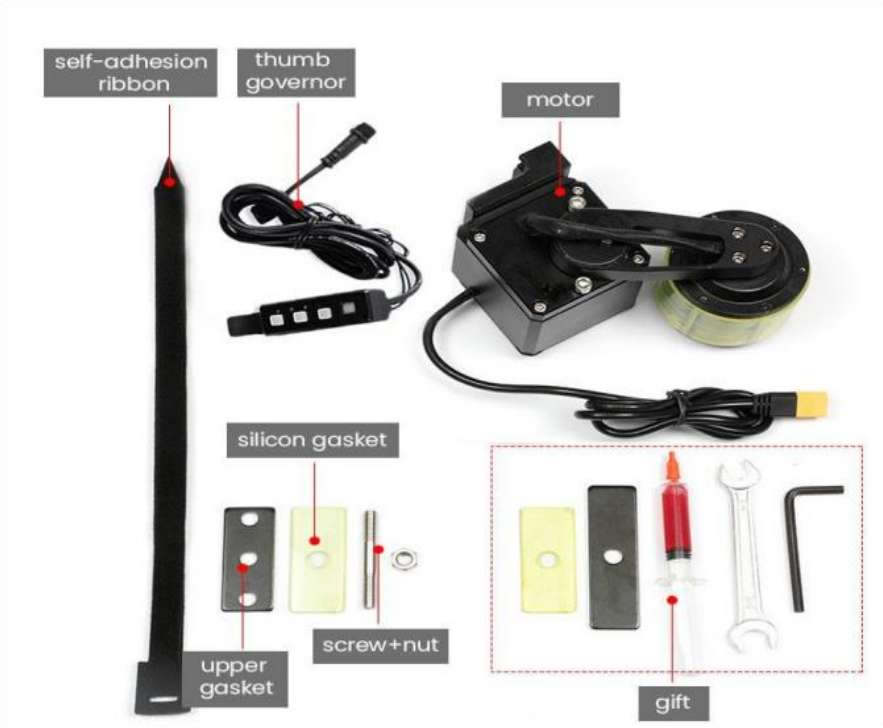
5) Support multiple installation methods, customers can connect the battery (48V with 15A discharge current) to work directly. Users can select battery capacities per different riding range requirements.

2. Safety Guidelines

1. For first time application, the new device may slip, it can be solved in a few minutes.
2. Unauthorized modifications are prohibited.
3. DO NOT use this product on rainy days or on water-wading roads. DO NOT immerse the motor in water.
4. DO NOT ride purely on electric power for a long time when climbing uphills. Pedal while assisting is better.
5. Wear a helmet and other riding protective qualified gears. Avoid dangerous maneuvers.
6. Please turn the speed governor slowly for the first time. Avoid sudden acceleration causing accidents such as falling.

Charging Tips:
Please charge in open areas. DO NOT charge for a long time. If there is heating or other abnormal phenomenon during riding or charging, please immediately place the battery in an open and unmanned place.

3. Product Introduction



P1

Power Requirements:

Voltage: 48V

Discharge current: ≥ 15A

Power Output Port: XT60 female connector.

4. Installation Steps

4.1.Step 1: Unbox and Test the Device

1. Open the battery pack and check if there is any debris or damage.
2. Connect the motor, governor and the battery.(as P2)
3. Check the indicator light status.
4. Slowly press the governor to drive the motor and clutch.
5. Disconnect the power and the governor connectors (Note: please disconnect the power connector first).



Power On/Off Button

P2

4.2.Step 2: Install the Booster

1. Put the booster wheel below the bicycle pedal with a gap of 10-40mm between the booster wheel and the bicycle wheel.(as P3)



P3

2. Adjust the slider and firm the installation.



P4

3. Fix and tighten all the screws, gaskets with the wrench.



P5

4.3.Step 3: Install the Thumb Governor

1. Select the mounting gaskets: the short one for handle frame; the longer one for the handle).
2. Use a screw to fix one end of the setting-up gasket in the governor.



P6

3. Place the governor to the handlebar/handle and adjust the direction, and tighten the gasket with thumb governor’s external opening.



P7

4. Disconnect the magnetic switch from the magnet, and fix it at the brake fracture to make the magnet close to the switch and fixed on the handle. The same steps for left and right installation as P8.



P8

5. Connect the governor with the motor.

4.4.Step 4: Install the Battery Pack

5.2AH/9AH battery pack installation: Fix the self-adhesive tape of the battery pack on the handle frame and the longitudinal beam/crossbar of the bicycle and connect it with the power cable.(as P9, P10)



P9



P10

4.5.Step 5: Wiring

1. Connect the booster with the thumb governor and tighten the screws as P11.



P11

2. Connect the battery power with the motor as P12.



P12

3. Bind the wires neatly with straps.

5. Functions

5.1.Thumb Governor



P13

Thumb Governor: Press it to accelerate.

Power On/Off Switch: Long press to turn on/off.

Gear +: Press to shift up (Gear range:0-5, max: 5).

Gear -: Press to shift down

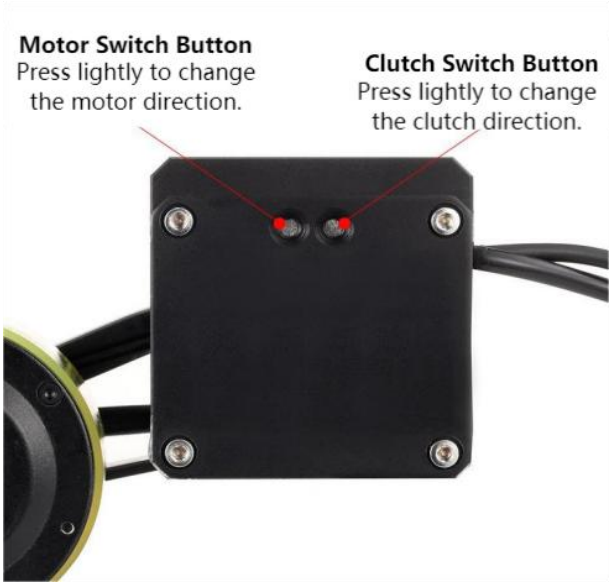
Release Gear: Press the thumb governor or brake's magnetic induction switch. Release the gear when detected disconnection.

LED Indicator: Indicate the battery power.

Brake&Power Off: Fix the magnetic switch and magnet on the left and right handlebar of the brake respectively for check the brake and shutdown.

5.2.Direction Switch Settings

Motor Direction Switch: Press the motor switch button to change the motor rotation direction.
Clutch Direction Switch: Press the clutch switch button to change the clutch direction.



P14

5.3.Battery & Charging Tips

Charging: Use the original charger to connect to the battery charging port. The red light on indicates that it is charging(as P15), and the green light on indicates fully charged or disconnected.(as P16)



P15



P16

Notes:
1. Connect the charger to the battery before plugging into the power.
2. Avoid long-term unused and discharged.
3. Store in dry, ventilated areas. Keep away from extreme temperatures or fire.
4. Proper use and maintenance can lengthen the battery life span.

Battery Specifications:

Capacity	9AH	5. 2AH
Voltage	48V	48V
Endurance	55-60 km（with assist booster kit) 40-45 km(purely on electric power)	35-40 km（with assist booster kit） 25-30 km(purely on electric power)
Charging Time	3-4 hours	2-3 hours

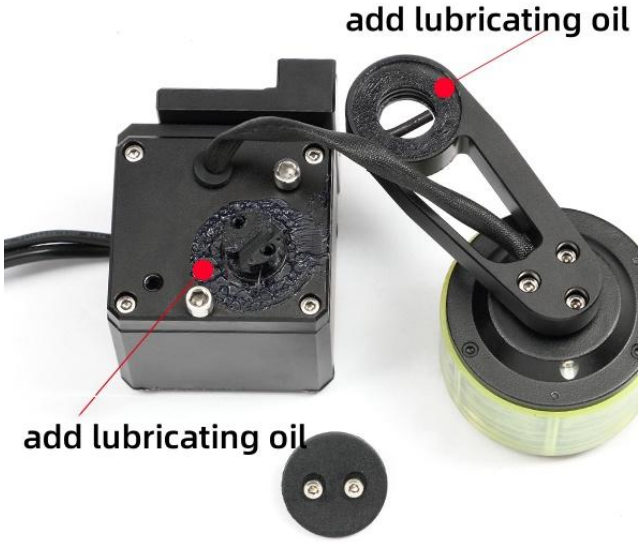
Compatible Power Supplies:
Voltage: 48V
Discharge Current: ≥15A
Capacity: ≥5AH (adjust based on needs)
Port: XT60 female connector

6. Maintenance

Note: Ensure the power is off before maintenance.

6.1.Regular Maintenance

1. The crankshaft needs disassemble, clean and lubricate every six months or if there is too much dust.



P17

2.If the motor has been running for half a year, immersed in water or exposed

to the rain for a long time, please remove the screws on the motor end cover and use the needle to add lubricating oil to the motor.



P18

6.2.Battery Maintenance:

1. Maintain 50% charge when long-term unused, charge and discharge every 2-3 months.
2. DO NOT store in low temperature ≤0°C for a long time.
3. DO NOT store in high temperature environments. DO NOT burn it on fire for explosion risks.

6.3.Charger Inspection:

Regularly check the charger plug, wire and housing to ensure there is no damage.

7. After-Sales Service

1. Within 7 days from the date of receipt, if any damage is found during the pre-installation test, the consumer can return the product under the premise that the packaging and the appearance is complete.
2. After 7 days from the date of receipt, for the non-human-induced damage, the warranty period is six months for the product and three months for the battery.
3. For the human-induced damage , please contact the official after-sales service of Dongguan WBP Technology Co., Ltd.
4. After-sales E-mail：wbp_service@163.com
5. Welcome to visit our company official website：www.wbptech.com

Out of warranty:

1. Human-induced damage and collisions.
2. Force majeure factor damage.
3. Water ingress damage.
4. Disassemble and DIY the kit without authorization.
5. Unauthorized modification of components.
6. No valid purchase certificate for the product, and the user information cannot be verified.
7. Damage caused by improper packaging when returning.
8. Any damage caused by improper using, maintaining or adjusting in accordance with the user manual.
9. Failure and damage not due to design, manufacturing, quality and other problems of the product.