

Brompton Kit

EZ RIDER KIT

instruction manual



■ Contents

| | |
|--|-----|
| User precautions | 1 |
| Product introduction | 2/3 |
| Some tips about using system | 4 |
| Essential parts | 5/6 |
| What you need to know | 6 |
| Make sure your bike is suitable for conversion | 6 |
| Install tires | 7 |
| Install the V brake if you need | 7 |
| Install the PAS | 8 |
| Install the Brake sensor | 9 |
| Connect Wires | 9 |
| Install the bracket | 10 |
| Install the power system | 11 |
| Testing precautions | 12 |
| Finishing the job | 13 |

User precautions

We want you to enjoy your EZ-Rider Kit and ride it safely. Please read the following information carefully, even if you are an experienced rider, so you can familiarise yourself with this conversion kit before you ride your bike for the first time.

- The kit has lots of electric parts, do not dismantle any part of the system or allow it to be dropped.
- The electric parts are fine to use in the rain but please make sure the waterproof connectors are properly seated, do not submerge any part of the system underwater.
- The battery should not be left in a completely discharged state for extended periods of time, top up the charge to around 70% if you plan not to ride the bike for a while.
- Check all parts of the bike and conversion kit after the first few miles when a new kit has been fitted and get in the habit of checking the bike regularly to ensure it is safe to ride.
- Check tyre pressure and brakes before each ride.
- Always wear a helmet when riding an EZ-Rider equipped bicycle.
- Do not use a mobile phone whilst riding.
- Always adhere to local traffic regulations and be aware that other road users may underestimate the speed of an electrically assisted bicycle.
- Never use a battery charger that is not designed for use with EZ-Rider. This is extremely important to avoid a fire.

Product Introduction



System connector

Charging port

TFT Display Meter

Activate button


User precautions



Some tips about using system

--Press the activate button once and press the On/Off Switch one second to turn on the device.

--Press the On/Off switch three seconds to turn off the device.

-- The e-brake status icon means it is in braking and cut off battery's power. The power system will not be working when your e-bike is in e-brake status.

NOTE: If you don't press the brake levers, But you see the e-brake status icon on the display, it means the e-brake sensor installed is not at the correct position.

--Climb is the max power lever= 3 levers. Sport is the mid power lever= 2 levers. ECO is the power saving mode.

--Speed is the Real Time Speed and it is the MPH unit.

--Voltage is the battery's Real Time Voltage. **Note: Please charge the battery fully if it is not fully.**

--Wattage is the system Real Time Peak Wattage. **Note it is not the rated wattage. The EZ Rider Kit system is the 250w system which is the road legal.**

--Trip Mileage is one trip riding range.

--DOD mileage is the total riding range.







--Level down is the minus button from 3->2->1->0 gear position.

--Level Up is the plus button from 0->1->2->3 gears position.





--0 is the no power gear position.

Essential parts



36V 250W EZ Rider Kit for Brompton bike 16"

| | | |
|---|---|--|
|  |  |  |
| 74mm dropouts Motor wheel | Power system | Bracket part |
|  |  |  |
| Charger | PAS | Brake sensor |

Basic tools

| | |
|---|--|
|  |  |
| The tool to install tires | Tie-wraps |
|  |  |
| Allen key | Wrench |

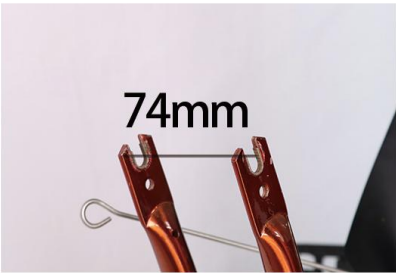
Options

| | |
|---|--|
|  |  |
| Throttle | Torque arm |

What you need to know



Q: How to confirm the wheel size correct?
A: The Brompton bike 16" tire size is 16* 1 3/8.



Q: What is the dropouts of the motor for Brompton bike?
A: It is 74mm dropouts.

Make sure your bike is suitable for conversion

The EZ Rider Kit for Brompton bike is a 74mm dropouts motor and 16*1 3/8 wheel.

- 74mm dropouts
- 16*1 3/8 wheel.
- Rim Brake.

--The motor's cable is on the left side of bike! !

■ Install tires



Motor wheel display



Remove and install tires

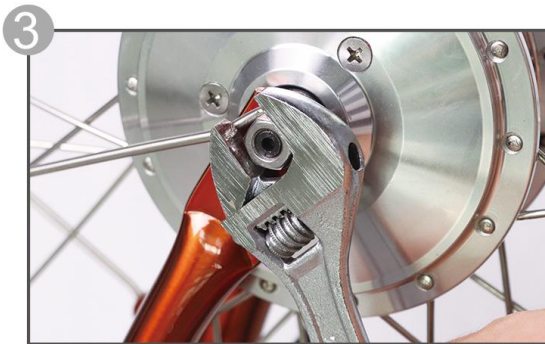
■ Install the V brake if you need



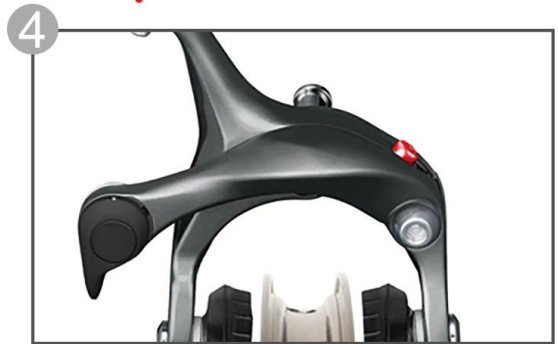
Release the V brake



Place the tire and install the V brake
(Note: The motor's cable is on the left side of bike) !



Tighten the screws, the motor wire spring must be inside the shaft

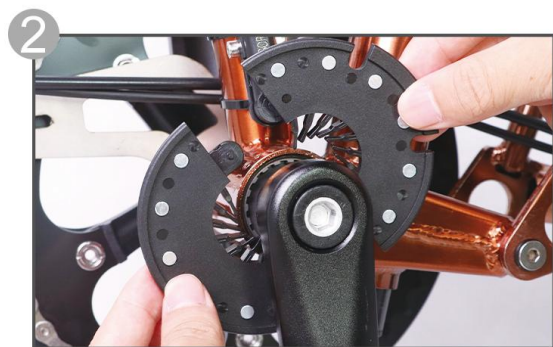


The correct position for the brake arms is where the rim is equidistant between both pads

■ Install the PAS



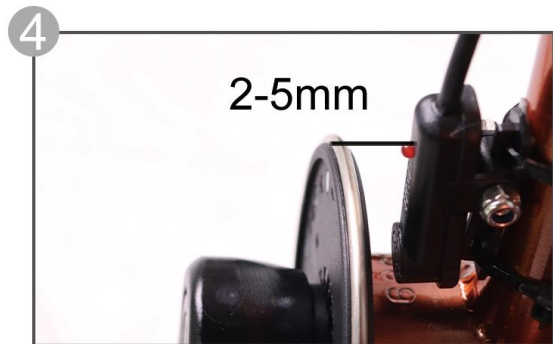
Install PAS sensor



Install the D12L PAS pad



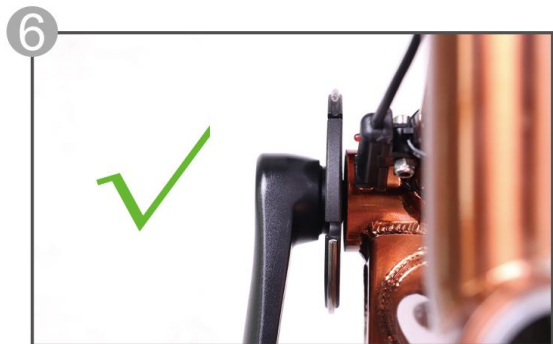
Install the retainer ring to fix the D12L PAS plate



Maintain a certain distance between PAS and PAS sensors



This is not correct because the signal is not continuous. The motor will not work well



This is the correct

■ Install the Brake sensor



Install magnetic discs



Install brake sensor

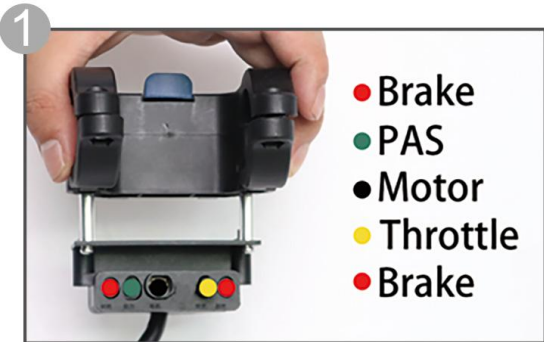


The magnet and sensor installed as close as possible



This is incorrect, the magnet and sensor are too far apart

■ Connect Wires

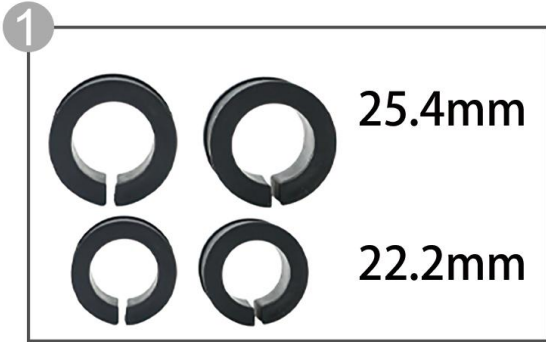


Bracket display



Display of bracket wiring

■ Install the bracket



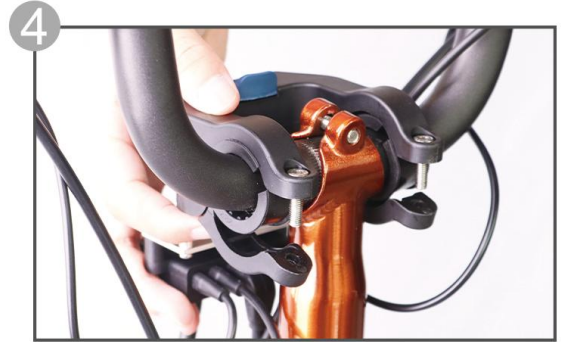
Rubbers



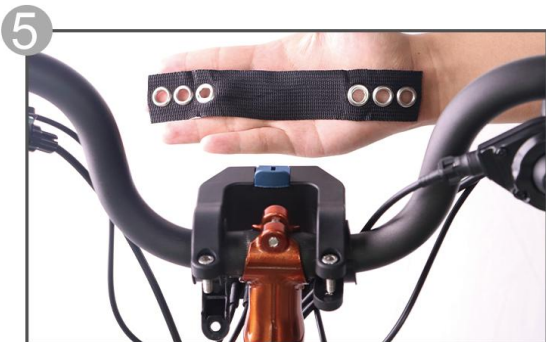
Please don't install rubber if your handlebar is 31.8mm



Install rubber bands



The bracket is installed on the handlebar

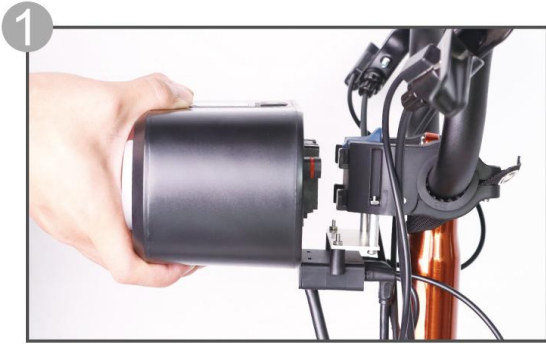


Fixed strap display



Tighten the screws

■ Install the bracket



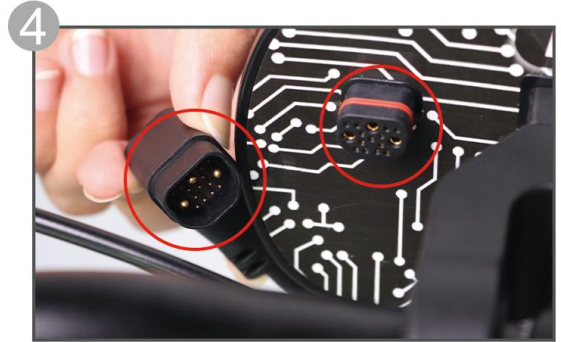
1 Install the power system



2 Snap the parts marked in the red circle together



3 Controller battery wiring hole



4 Connect the two parts marked in red together



5 Connection completed



6 Turn on the controller system

■ Testing precautions

1) Check list before power on.


- The motor 's cable is on the left side of the bike.
- The motor wire spring is located inside the axle because this spring protect the cable not be cut.
- The bike brake is adjusted in the correct position.
- The motor wheel is spinning forward freewheel when turn it by hand.

Note: Pay attention to disk-cutting fingers when the motor is spinning. !

- The motor nuts are tightened.
- The bracket part is tightened.

Note: The bolts of bracket part can't be over -tightened! !

2) The check list when power on.

- Press the activate button once and press the On/Off Switch one second to turn on the device.
- Check the voltage which fully voltage is around 41-42v, minimum voltage is around 30-31v.
- Check if any errors code. Note: The error7 means not connected the motor, error6 means low battery voltage.
- Press brake levers to check the e-brake status icon.  It will not have this icon if you don't install the e-brake sensor.
NOTE: If you don't press the brake levers, But you see the e-brake status icon is on the display, it means the e-brake sensor installed is not at the correct position.
- Check the mileage, it may have some mileage because we will test it before shipping.

■ Finishing the fight

Checklist: (Turn off the battery)

- a. Wheel is secured in place. Tighten the nuts enough.
- b. The motor's cable is not against the disk, screws or nuts when spinning.
- c. Wheel has no loose parts.
- d. All components on the handlebar have been secured tightly.
- e. You are comfortable with the throttle, brakes, etc.
- f. The handlebar is able to rotate freely.
- g. The mechanical brakes work properly.

Maintenance

We recommend to have the spoke tension of the rear wheel and the torque of all screws checked by a qualified dealer after the first 200km (125 miles).

In order to ensure extended use of the propulsion system, all plug-in contacts of the system should be checked every two to three months and cleaned with a soft and dry brush, if necessary. It must be ensured that no dirt or humidity penetrates the battery docking station when the battery is removed.

Clean

CAUTION: Never use a high pressure washer or a garden hose to clean the propulsion system. The force of a water jet could damage the electrical components of the propulsion system. We recommend a soft sponge or a soft brush to clean the bicycle, Use a moist rag to clean the battery docking station. Always use very little water, and keep water away from the electrical contacts, Check the plug-in connections for moisture after cleaning and let these dry, if necessary, before using the bicycle.

Notice

Water damage to the battery/Improperly caring for the battery.

The battery warranty does not include damage from power surges, use of improper charger, improper maintenance or other such misuse, or normal wear, our battery packs are water resistant and fine in the rain but should NEVER be submerged in liquid.

Batteries need to be stored fully charged and kept in a cool dry environment They should be charged immediately after every use and never stored for long periods of time empty of without maintenance charging.

Limited warranty does not cover or apply to the following: Normal wear and tear: any damage, failure and/or loss caused by accident, misuse, neglect, abuse and/or failure to follow instructions or warning as stated on the manual.

The image features a white background with decorative elements. In the top-right and bottom-left corners, there are two parallel diagonal lines. The outer line is a dark grey color, and the inner line is a lighter, medium grey color. The text "MAKE CYCLING EASIER" is centered in the middle of the page.

MAKE CYCLING EASIER