LIVALL

PikaBoost
User Manual

Version: V1.0
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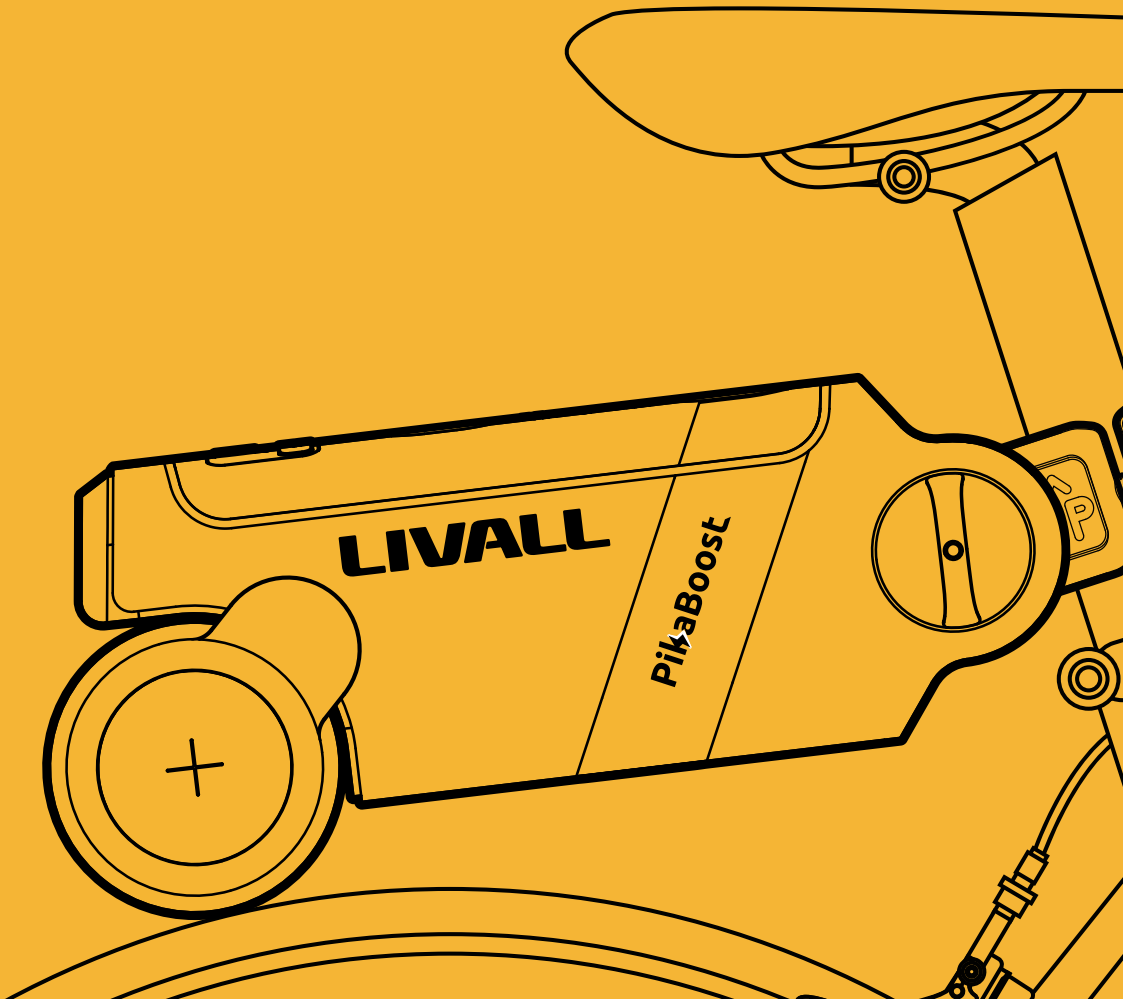

Nothing beats the joy of riding!

We want you to get out there and have fun.

But, first...

please read the manual.

If you have any more questions, check out our instructional videos or contact our support team via email.

Contact us for help here:
Website: www.livall.com , www.livall-pikaboost.com
Email: pikaboost@livall.com

Contents

This manual is not intended as a detailed user, service repair, or maintenance manual.
Please consult LIVALL technicians for service, repairs, or maintenance.


LIVALL
PikaBoost

Instructions for Use

This manual is not intended as a detailed user, service repair, or maintenance manual Please consult LIVALL technicians for service, repairs, or maintenance.

The Basics of Reading

• Whether you're new to cycling or an experienced rider, please take the time to read the Manual before using PikaBoost for your cycling adventures. You can scan the QR code on the first page of the Manual to watch the related instructional videos. These contents can be found in the "Support" section of livall.com or livall-PikaBoost.com. We will keep updating the content of this manual, so please always refer to the latest version for accurate information.

• If your PikaBoost will be used by children, it's really important to make sure they know all the safety information and how to operate it correctly. And don't forget, parents should always be there to supervise them and make sure they stay safe during their ride. Safety first!

Local Laws

The regulations regarding the use and operation of E-bike conversion kits may vary depending on the country, state/province, and city of residence. In many cases, the regulations for using E-bike conversion kits are the same as those for regular bicycles.

However, each jurisdiction may have laws regarding permits and regulations for E-bike conversion kits, areas where they can be ridden, minimum riding age, or required equipment (such as helmets).

Riders are responsible for understanding the local regulations for using such products and complying with them.

A Note About Warnings

• As you read this manual, you'll see gray warning boxes like this:

> ⚠ **WARNING!**
> Text in a gray box with the safety alert symbol will warn you about a situation or behavior that could cause severe injury or death.

• The reason for these warnings is that we don't want you – or your loved ones, or your kit – to get hurt. So please pay attention to the warnings. It's our way of letting you know we care about your safety.

On Your First Ride

• Please be VERY CAREFUL when using the PikaBoost for the first time on your bike, as it significantly increases the speed compared to a regular bicycle in AUTO cycling type. Before starting your first ride, make sure to switch off or put PikaBoost on standby mode and find an open space. Avoid pedaling hard as soon as you start with PikaBoost engaged, as the bike will continue to accelerate, potentially catching you off guard. However, after a few rides, you will begin to appreciate the thrilling cycling experience that PikaBoost provides.

*Note that this is a general manual. LIVALL reserves the right to make changes to products and designs. The products you own may not have the same style as the pictures shown in this manual.

Pre-ride Check List

Before Your Each Ride

Before starting your ride, perform a safety check on a flat surface away from traffic. If any part fails the safety check, have it inspected and repaired before using the PikaBoost.

Safety Check	Steps Involved
☐ Seat Post	• Check if the seat post is firmly locked.
☐ Bracket	• Check if the bracket is securely fastened to the bicycle seatpost and if there is any looseness or displacement. • Check if the orientation of the bracket aligned with the rear tire. • Check if the screws on the bracket have come loost.
☐ Locking Knob	• Check if the locking knob is fully tightened.
☐ Tire	• Check if the PikaBoost tire and the bicycle rear tire fit properly.
☐ Battery Case	• Check if the screws on the battery case have come off or are about to come off. • Check if the PikaBoost body cover is fully closed. • Check if the battery level is sufficient for this ride.
☐ Brake Controller	• Check if the brake controller is working properly. (By pressing the brake handle, check if the brake indicator lights up in blue and if the tail light respond with the corresponding flashing light.) • Check if the magnets installed on the rear brake handle and front brake handle (if any) are securely attached, and if the magnets are misaligned or detached. • Check if the installation position of the brake sensor can timely detect the magnets. • Check if the brake receiver can function properly and if it can switch between riding mode and standby mode smoothly.

⚠ WARNING!

Regularly inspecting and adjusting PikaBoost can effectively ensure your cycling safety.

Important Safety Information

This product is an e-bike conversion kit equipped with a removable lithium battery as a power source. Before using PikaBoost for cycling, please read and comply with the following instructions carefully.

- **PikaBoost Can't Protect you in an Accident**

When using PikaBoost for cycling, the most common injury is falling down, which could be due to not switching the riding mode of PikaBoost to standby mode when stopping. PikaBoost can not avoid being damaged after a fall. If you experience any collision, impact, or accident, please carefully check yourself for injuries, and then before using PikaBoost for cycling again, please contact LIVALL technicians for online guidance to thoroughly inspect your PikaBoost.

- **Know Your Limits**

If you attempt to use PikaBoost beyond your ability range while cycling, there may be a certain level of danger involved. Please understand your cycling skill level beforehand and refrain from using it beyond your personal capabilities.

- **Lifespan**

PikaBoost is not indestructible, and its parts will not last forever. The PikaBoost is made to withstand the stress of "normal" riding because those stress is well-known and understood.

However, we cannot predict the forces that might occur if you use your PikaBoost in competition, if you ride in extreme conditions, if it is involved in a crash, if it is used for rentals or commercial purposes, or if it is used in other ways that apply high stress of fatigue loads.

With damage, the life of any part can be drastically reduced and may fail without warning.
The safe life of a part is determined by its construction, materials, use, maintenance, rider weight, bicycle type, speed, terrain, and environment (humidity, salinity, temperature, etc.), so it is not possible to give an accurate timetable for replacement.

Any crack, scratch, or change of color in a high-stress area indicates the part (including the bracket and housing) has reached the end of its life and should be replaced. If you are not sure or you don't feel comfortable inspecting or repairing your PikaBoost, consult LIVALL technicians. Regular maintenance, frequent inspections, and frequent replacement of parts are necessary for safe use, high-performance PikaBoost.

⚠ WARNING!
PikaBoost is subjected to wear and high stress. Different materials and parts may react to wear or stress fatigue in different ways. If the design life of a part has been exceeded, it may suddenly fail.

- **Handle with Care**

PikaBoost components are especially vulnerable. The wiring, battery case, and brake controller of PikaBoost can be easily damaged if handled incorrectly.

- **Think Safety**

Stay tuned to your environment and avoid dangerous situations which are usually obvious (traffic, obstacles, drop-offs, and so on), but sometimes are not. Some of the high-risk stunts and jumps seen in magazines or videos are very dangerous, even skilled athletes get severe injuries when they crash (and they do crash).

Modifications to your PikaBoost can make it unsafe. Each part of your new PikaBoost has been carefully chosen and approved. The safety of accessory or replacement parts and especially how those parts attach and interface with other parts of the PikaBoost is not always apparent. For this reason, you should only replace parts with original equipment or parts that are approved. If you are not sure what parts are approved, ask LIVALL technicians.

Examples of modifications include this partial list:
- Physically altering existing parts (sanding, filing, drilling, etc.)
- Purchasing and using lithium batteries that have not been approved by LIVALL
- Adding a motor or engine
- Installing accessories
- Changing parts

⚠ WARNING!
Failure to compatibility, properly install, operate, and maintain any component or accessory can result in serious injury or death.

⚠ WARNING!
Changing the components with other than genuine replacement parts may compromise the safety of your PikaBoost and void the warranty. Check with LIVALL technicians/retailers before changing the components.

⚠ WARNING!
Any accessory or component attached to, on, or near a rotating wheel poses a risk of contacting or stopping the wheel, leading to a crash resulting in serious injury or death. Before every ride check to ensure that all such accessories and components of PikaBoost are securely mounted to your bicycle.

⚠ WARNING!
In non-riding conditions, be sure to use the APP or brake controller to switch PikaBoost to standby mode to avoid triggering the PikaBoost motor and providing assistance to the bicycle while walking, which can result in serious injury or death.

New components or accessories could interfere with the operation of your PikaBoost use, including the power assistance level, brake sensitivity, and the tightness of the bracket. Always verify that any new product your purchase for your PikaBoost does not interfere with these functions.

⚠ WARNING!
If your PikaBoost's controls are impaired or compromised due to the use of incompatible bikes, accessories or components, the PikaBoost may stop unexpectedly, or you may lose control of your bicycle and crash, resulting in serious injury or death.

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If your PikaBoost's controls are impaired or compromised due to the use of incompatible bikes, accessories or components, the PikaBoost may stop unexpectedly, or you may lose control of your bicycle and crash, resulting in serious injury or death.

These include but are not limited to.
- An unauthorized or incorrectly mounted fender can cause the bike to stop suddenly.
- Mounting PikaBoost on an incompatible bicycle seat post (material, shape, and diameter) may cause the seat post to break.
- When using the assistance riding mode, installing PikaBoost on a rear tire with a smooth tread pattern may result in slippage.

⚠ WARNING!
Always take the battery case out of the PikaBoost and store it in a safe place when the PikaBoost is not in use. Unauthorized use of your PikaBoost by others may result in serious injury or death.

- **Important Battery Information**

PikaBoost is equipped with a battery case containing 18 lithium batteries. If you need to remove/install the battery cell, please read the battery case installation and removal instructions or related operation videos carefully before proceeding. Always be sure to follow the operation tutorial and video, and do not damage the internal circuit or battery cell packaging, as it may result in a short circuit, battery damage, or even fire or explosion. If the battery leaks or the wires are damaged, please stop using the battery case and consult LIVALL technicians for repair.

- **Charge the Battery Case**

The battery case is supplied partially charged. For best performance, fully charge the battery case before riding with your PikaBoost.

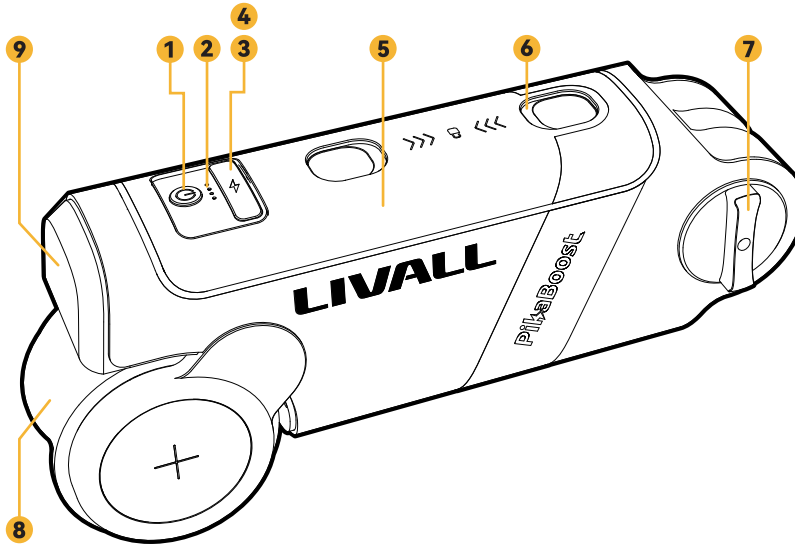
⚠ WARNING! Be safe. Follow these safety warnings when charging your battery:

- Charge the PikaBoost in a well-ventilated environment at a suitable temperature. Charging under intense sunlight, high-temperature conditions, or extremely cold environments is strictly prohibited.
- Before charging, ensure that the charging interface is free from water stains and foreign objects and that the power cable is not damaged.
- During the charging process, if there is any unusual smell or the charger's casing becomes overheated, please immediately stop charging and consult LIVALL technicians for repairs.
- During the charging process, always pay attention to the charging status and do not leave it unattended for a long time. After the charging is complete, the power indicator lights are all solid green, and the power supply should be disconnected in time. It is prohibited to connect the charger to an AC power source for a long time without charging.

Basic Information

Part Name

PikaBoost



1 Power Button
Power on/off for PikaBoost.

2 Power Indicator
Light up and display battery level after powering on.

3 USB-C Charging Port
Charge the PikaBoost

4 Port Cover

5 Housing Lid

6 Release Buckle
Use a two-finger press to open/lock the housing lid.

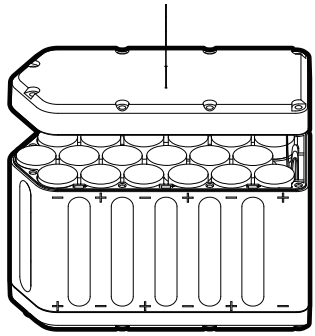
7 Locking Knob
Lock/unlock the PikaBoost when installing/dismantling the PikaBoost.

8 Tire

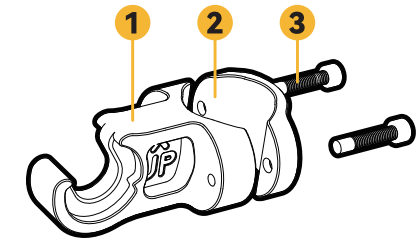
9 Tail Light
Display different lights when braking/cycling.

Battery Case

(Containing 18 batteries)



Bracket



1 Clamp **2** Unit **3** M5 Screw

Compatibility Parameter

- **Seat Post of the Bicycle**

  Compatible shapes: Round & D Shape

  Compatible diameter: Φ25.4~34.9mm

  Not compatible with carbon seat posts

- **The Rear Tire of the Bicycle**

  The tread pattern of the rear tire of a bicycle can affect the friction noise between the PikaBoost tire and the rear wheel of the bicycle.

A smooth rear bicycle tire reduces cycling noise.

Improve climbing performance by choosing tires with good grip.

⚠ WARNING!

When riding in assistance mode, if the tread of the bicycle tire is too smooth, the bike is prone to slipping during uphill climbs, posing a certain safety risk. To enhance the climbing performance of your bicycle, please choose a rear tire for PikaBoost that has an anti-slip effect.

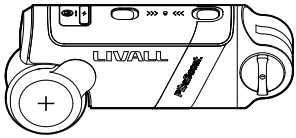
Specification

Weight	2.4kg/5.3lbs (battery not included)
Dimension	340*104*100mm
Top Speed	32km/h (can vary between contries)
Power	250W
Range	30km (can vary between riders, terrain, battery level, and additional payload)
Charging Port	Type-C
Waterproof Level	IP65

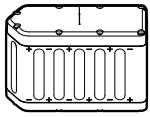
Package Content

Check that the package is complete and undamaged.

Your PikaBoost package contains the following items:



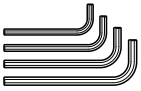
1. PikaBoost House



2. Battery Case

3. Clamp / Unit

4. small/ medium/ large M5 screws



5. M2.0 / M2.5 / M3.0 / M4.0 L-wrenches

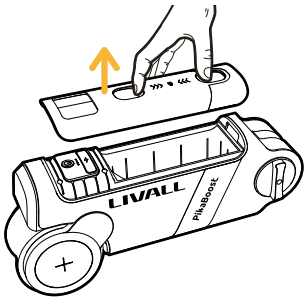
6. Type-C Cable

Preparation Work

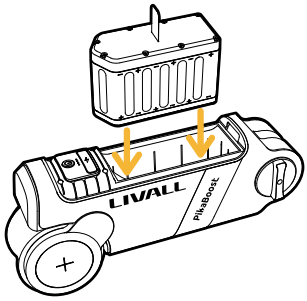
Put the Battery Case in the PikaBoost House

***Batteries are loaded in the battery case.**

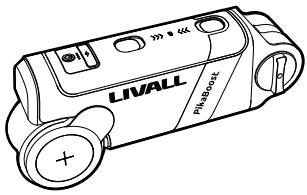
To install the battery cells into the battery case, please read the instructions (manual and video) related to the battery cells before installation. Install them strictly following the steps provided on the official website.



1. Press the buckle to open the house lid.

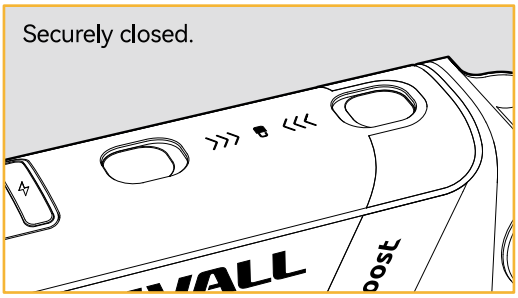


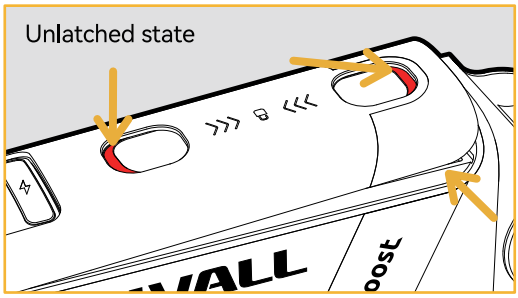
2. Put the battery case into the PikaBoost housing.



3. Cover back the house lid on the PikaBoost.

Check the tightness of the house lid:





Note:

1. Before riding, ensure that the house lid is fully closed. This prevents the lid from falling off on bumpy roads, which can cause water damage to the PikaBoost device on rainy days.
2. If water gets into the PikaBoost device, please take out the battery case immediately and dry the PikaBoost device and battery case before using. If the device does not turn on, consult LIVALL technicians for help.

Download LIVALL Riding APP

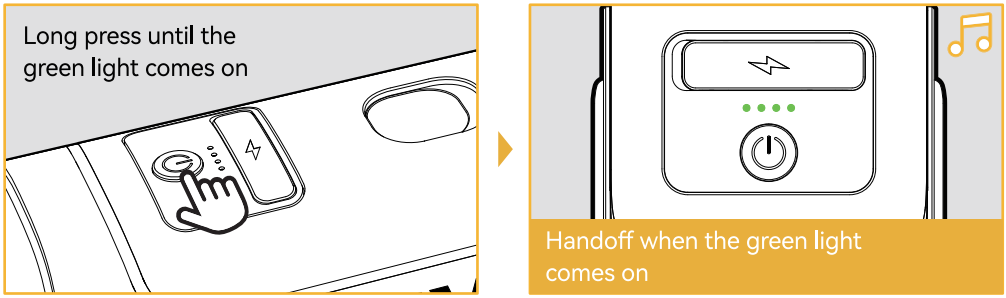
Scan the QR code to download the LIVALL Riding APP. You can also search for “LIVALL Riding" in APP Store/Google Play and download it.

APP Pairing

To use the PikaBoost, open the LIVALL Riding APP, and pair it with the PikaBoost device before the first use. Follow these steps:

1.Turn on the PikaBoost

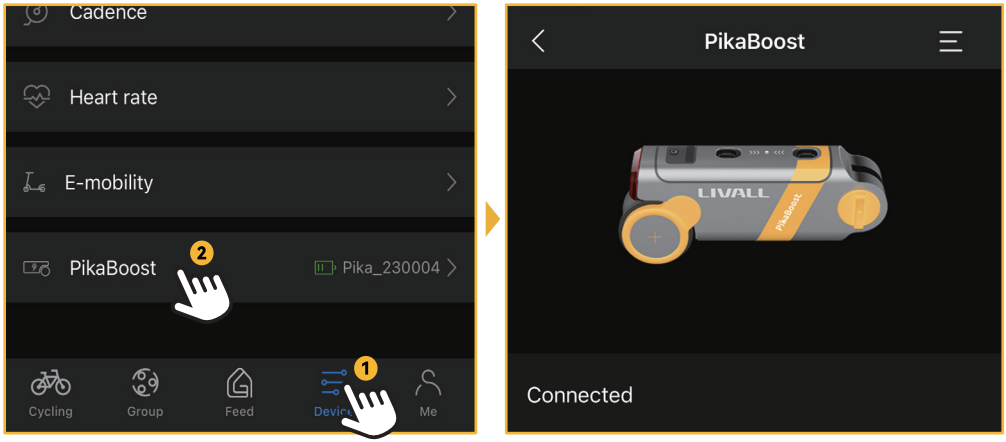
• Long press the power button on PikaBoost until the power indicator light turns solid green and a tone signal power on.



Note: If the power indicator light flashes green or no light after a 3-second hold indicates a low battery. Please charge the PikaBoost in time.

2.Open LIVALL Riding APP

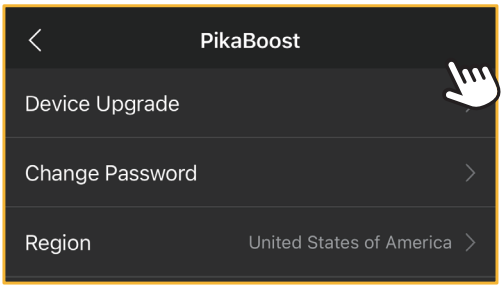
• On the APP page, click "Device" on the bottom menu bar, scroll down the page, click the "PikaBoost" button, and establish a connection by bringing the phone closer to the PikaBoost device.

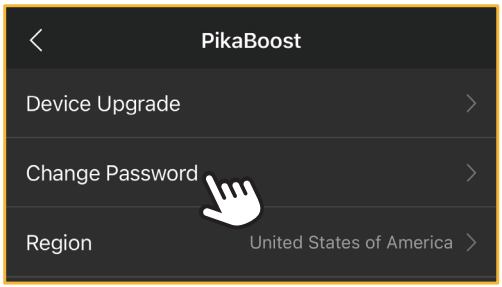


Note: Before connecting, make sure your phone's Bluetooth is turned on.

3.Change the connection password

- The default connection password is 000000 after the first APP connection. It is recommended to change the connection password of your PikaBoost to avoid unauthorized connections.

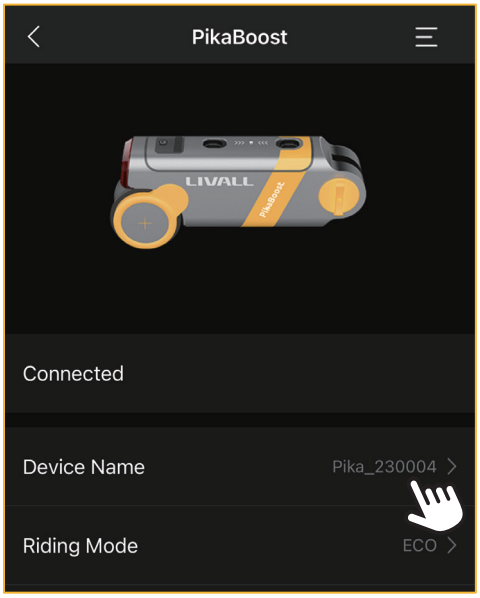




Note: If your forget the password, long press the power button on the PikaBoost for about 10 seconds. The device will reset to the default password, indicated by the flashing power indicator and tail light three times each.

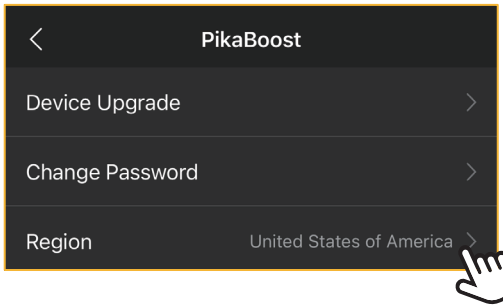
4.Change the device name

- It is recommended to rename your PikaBoost device on the APP to easily identify it among others.



5.Select Country/Region

- Before using the PikaBoost, please select your country/region in the APP.
  PikaBoost will provide you with the maximum speed limit and riding modes according to the country/region you select.



⚠ WARNING!

If you actual riding location is different from the selected country/region, your riding behavior may violate local traffic laws and regulations. The manufacturer, seller, and distributor are not responsible for any consequences arising from this.

First Installation of PikaBoost

Pick the Proper Screw Size

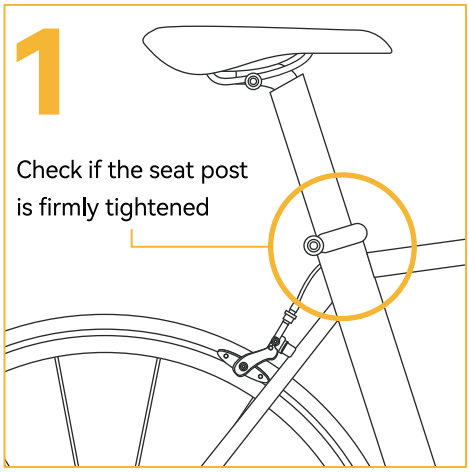
To install, pick the proper screw size for the bracket based on your bicycle seat post's diameter.

Small size
For seat post diameter
Φ25.4-27.2mm

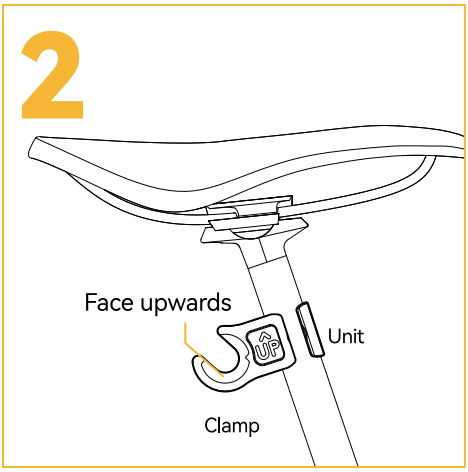
Medium size
For seat post diameter
Φ27.2-32mm

Large size
For seat post diameter
Φ32-34.9mm

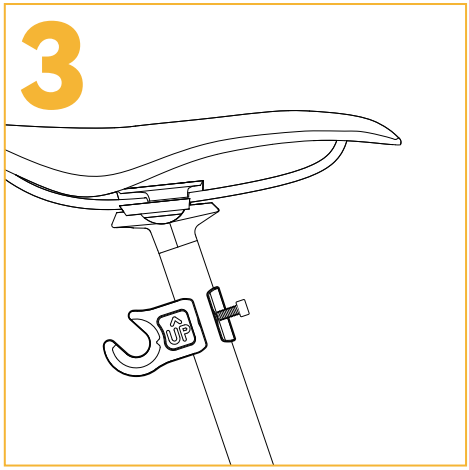
Install the Bracket to Seat Post



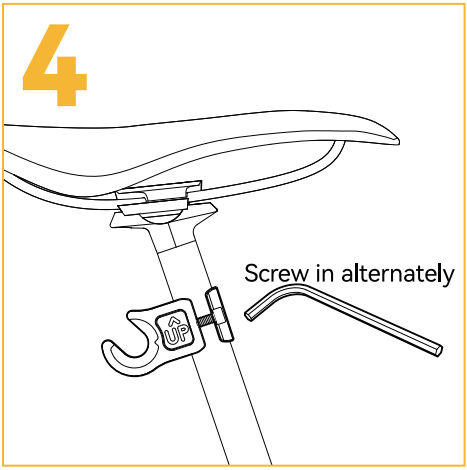
Prior to installing the PikaBoost, make sure the seat post lock is securely tightened for a safe attachment.



Attach the clamp and unit to the bike seat post, and ensure the clamp notch is facing upward.



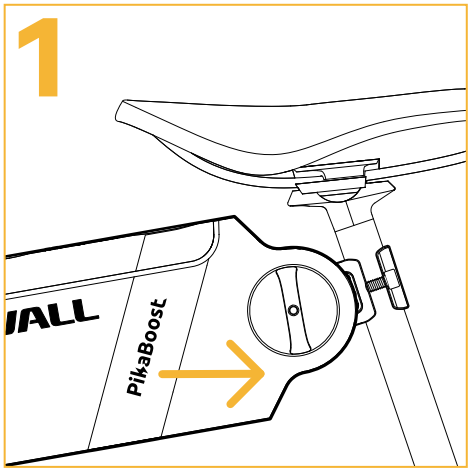
Insert the two chosen M5 screws into the screw holes of the Unit individually.



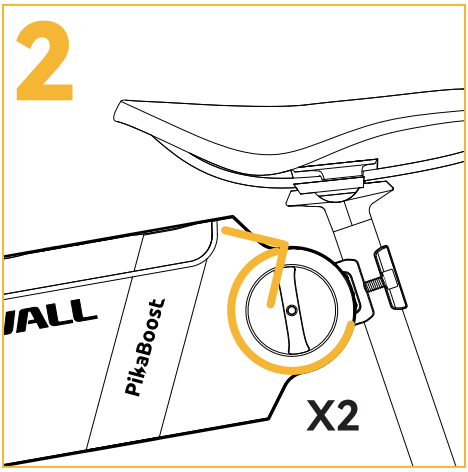
Use a wrench to tighten the screws, alternating between them for even distribution on the seat post. At this stage, don't lock the screw too tight, as you may re-adjust the angle later.

Note: If no bike/seat post replacement is needed, the bracket can be installed on the bike seat post without removing it.

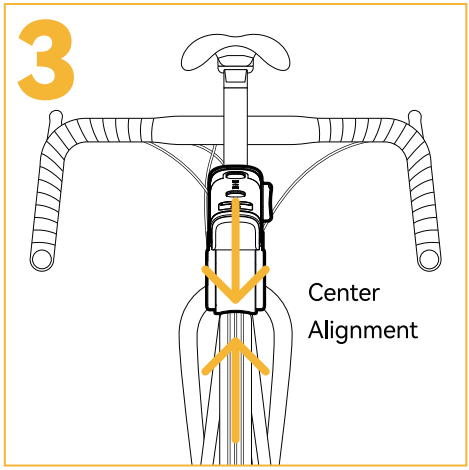
Snap the PikaBoost into the Bracket



Stand behind the bike's rear tire, a
nd snap the PikaBoost into the clamp.

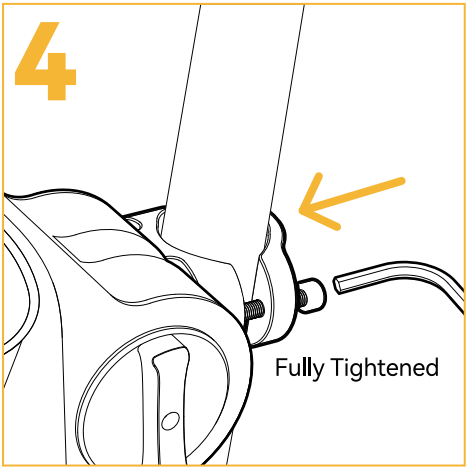


Twist the PikaBoost side knob clockwise for two turns to prevent it from falling off.



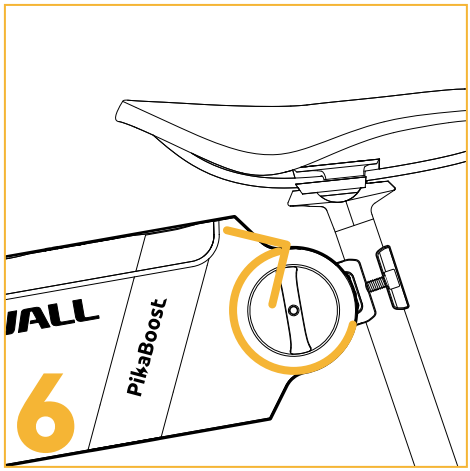
Stand behind the bike's rear tire, and check the installation position of the PikaBoost.

Note: Adjust the bracket if the PikaBoost tire is not aligned with the bicycle's rear tire.



Use the wrench to tighten the screws on the unit until the bracket is firmly secured.

In the APP, click on the "Device Lock" button on the PikaBoost page. Wait for the motor sound to stop, and the locking process is complete.



Continue to tighten the knob clockwise to increase the fit between PikaBoost and the bicycle rear wheel.

Check the Fit Between the PikaBoost and the Bicycle

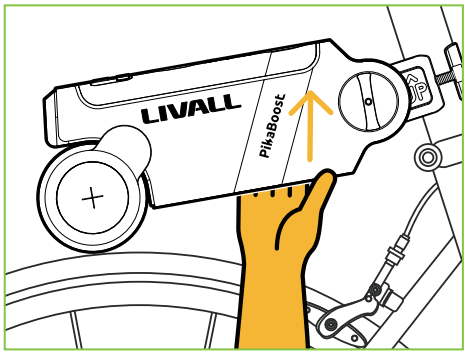
Once the PikaBoost is fully secured on the bicycle's rear tire,
it is necessary to check the fit of the PikaBoost tire and rear tire of the bicycle to ensure safe riding.

Principle:

The higher the fit between the PikaBoost tire and the rear tire of the bicycle,
the greater the friction force and the better the assisting effect.

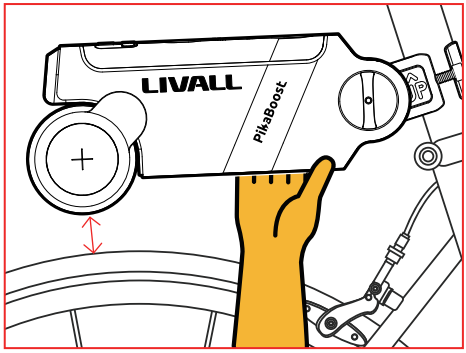
Checking method:

Hold the middle bottom of the PikaBoost house with your hand,
then lift it upwards.



Proper fit

When lifting the PikaBoost upwards, the rear bicycle tire lifts up with it, indicating a successful installation.



Insufficient fit

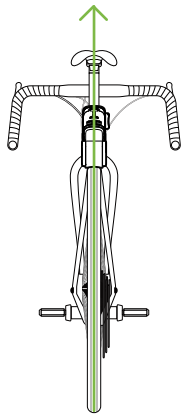
When lifting the PikaBoost upwards, the rear bicycle tire does not lift together, the installation requires adjustment. Twist the PikaBoost side knob clockwise until both tires be lifted off the ground together.

Calibration

Calibrate the PikaBoost for appropriate assistance on different road sections before the first ride is required.

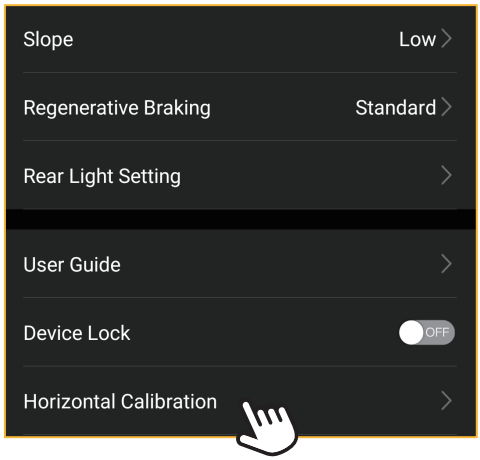
- **Calibration method:**

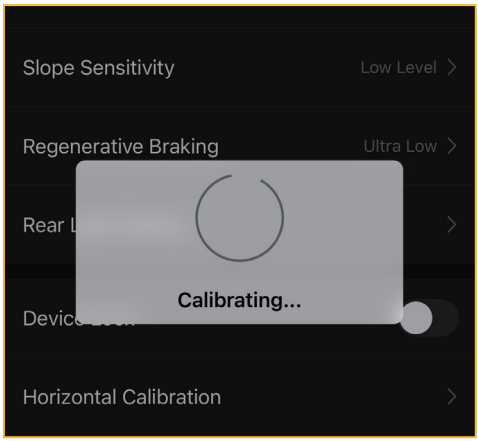
1. Part the bicycle on a spacious flat surface, and ensure it remains upright.



Note:
Do not tilt the bike during calibration.

2. In the APP, click on the "Horizontal Calibration" button on the PikaBoost page, and the calibration starts.





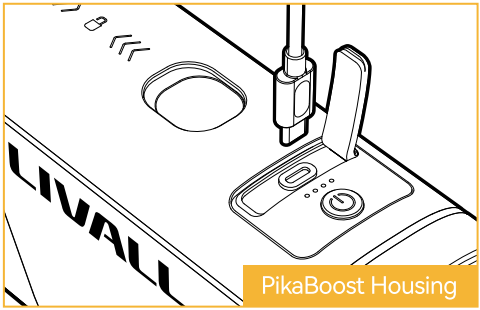
Note: No need to recalibrate the PikaBoost unless there are changes in seat height, bracket installation position or bike replacement.

Recharging and Power Supply via PikaBoost

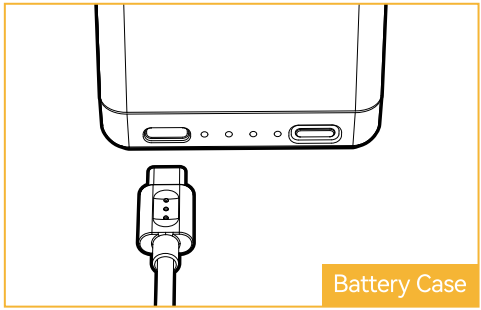
Recharging the PikaBoost

The provided battery case is shipped with only a partial charge. Do remember to chargeyour PikaBoost on your first ride for optimal performance.

Plug the provided Type-C cable into the Type-C port on the PikaBoost house/battery case and the charger (self-supplied), then plug the charger into an outlet to start charging.

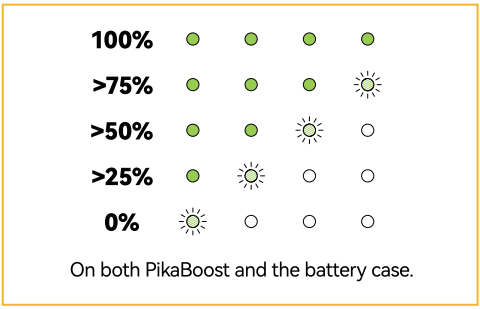


Via charging port on PikaBoost house.



Via charging port on battery case.

When charging starts, the power indicator displays the following states:



On both PikaBoost and the battery case.

Power Supply with PikaBoost

The PikaBoost serves as a mobile power source to power your other devices and the brake controller.

Plug the provided Type-C cable into the Type-C port on the PikaBoost house/battery case and the charging port of the device that needs to be charged.

When the power supply starts, the power indicator displays the following states:

If the power indicator is blinking or not lighting up when supplying power, it indicates that the battery is running low.

Please stop the power supply action and recharge the PikaBoost in time to prevent the battery from draining.

1. Press the button on PikaBoost/battery case to check the battery level.

2. During a ride, if the PikaBoost battery drops below 20%, the motor will sound a low battery alarm every 5 seconds.

⚠ WARNING!

1. If the PikaBoost battery is running low, it should be fully charged and then stored in a well-ventilated and dry place. This can prevent the battery from becoming ineffective due to prolonged battery drainage.

2. If the PikaBoost is left unused for a long period of time, the battery case needs to be recharged every three months. This can prevent the battery from becoming ineffective due to prolonged leakage.

Selection and Switching of the Riding Modes

Select the Riding Modes

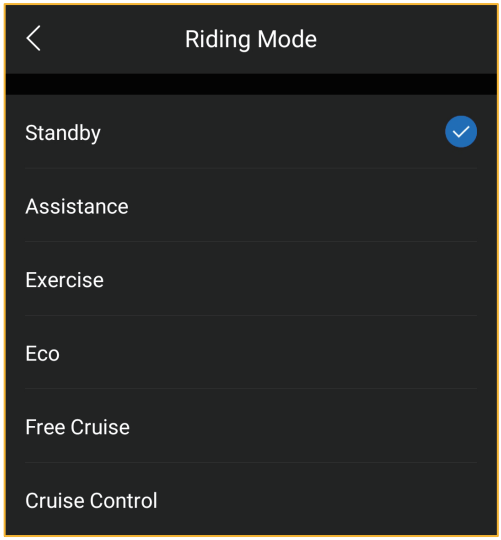
The PikaBoost's ride types can be categorized into two types, Smart Assist Ride and Auto Assist Ride.

Smart Assist Ride

Standby mode, assistance mode, and exercise mode are included in the smart assist ride, which can be selected or switched via the APP.

1. Standby mode

The PikaBoost doesn't engage in assisting the bike or creating resistance.



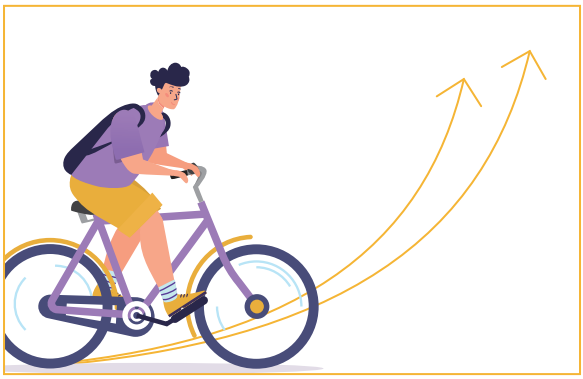
⚠ WARNING!

When in a non-riding state such as walking with the bicycle, it is important to switch the PikaBoost from riding mode to standby mode using the Brake Controller or APP. This will avoid the risk of serious injury or death if the PikaBoost starts the motor to provide assistance to the bike during walking.

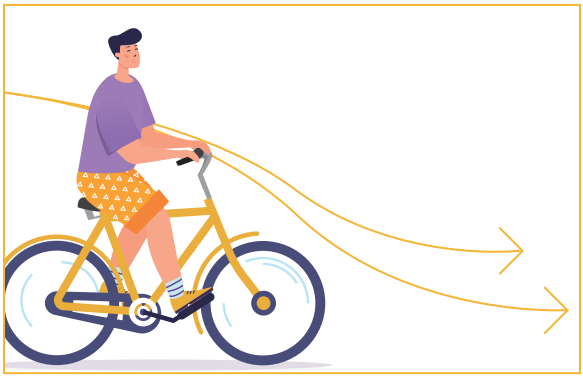
2.Assistance mode

Assistance is only provided during pedaling.

- To speed up, the assistance increases as the pedaling frequency is accelerated.



- To slow down, the assistance decreases as the pedaling frequency is reduced.



Note:

The assistance mode is set as the default mode for the first ride.

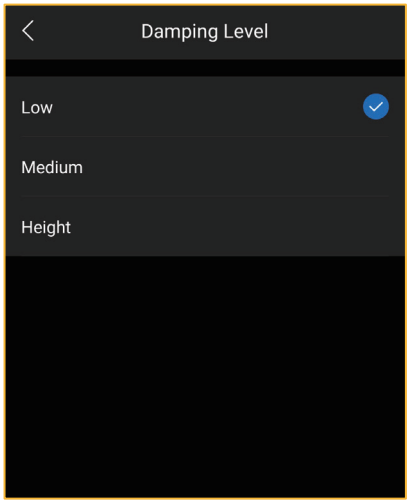
The riding mode will default to the mode last used for each ride.

3. Exercise mode

PikaBoost doesn't assist your cycling, only adds resistance while converting kinetic energy into electricxqal energy.

Adjust damping level

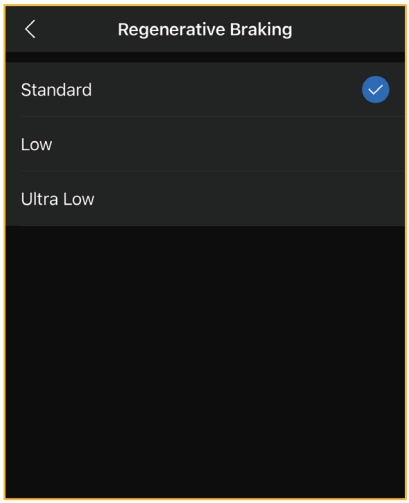
The damping level can be set on the APP to adjust the resistance added to the bike: low(low resistance is provided), medium(normal resistance is provided), and high (high resistance is provided).



Note: It is recommended to test every resistance level in an open place to select a suitable level according to your ability to achieve a reasonable workout effect.

Adjust Regenerative Braking

The level of regenerative braking can be set on the APP. PikaBoost will convert the extra kinetic energy into electrical energy according to the regenerative level you set on the APP.



Auto Assist Ride

There are three riding modes available under the auto assist ride: ECO mode, Free Cruise mode, and Cruise Control mode. It is necessary to mount the paired remote controller before riding for using the riding modes of auto assist ride. After mounting the remote controller, you can switch the riding modes via the APP or remote controller.

Note:

1.ECO mode is available in all countries/regions. It is necessary to mount the remote controller and press the brake to activate the remote controller before every use.

2.Free Cruise and Cruise Control are only available in countries/regions that support automatic riding without pedaling. Be sure to select the correct country/region according to your location and understand local transportation laws before use.

⚠ WARNING!
When in a non-riding state such as walking with the bicycle, it is important to switch the PikaBoost from riding mode to standby mode using the Brake Controller or APP. This will avoid the risk of serious injury or death if the PikaBoost starts the motor to provide assistance to the bike during walking.

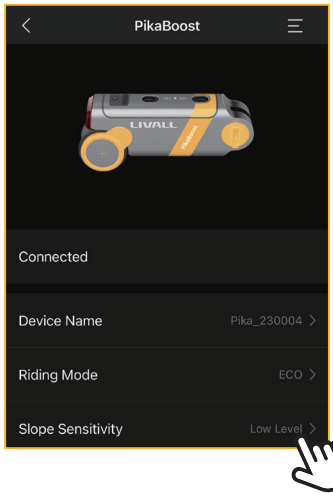
1. ECO mode

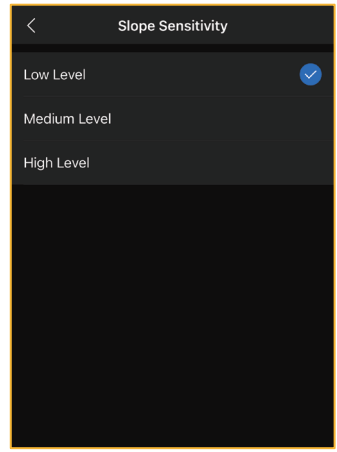
During riding, PikaBoost powers your bike when detecting uphill roads.t

- No support or resistance on flat roads.
- Extra kinetic energy is converted to electrical energy during downhill roads.

Slope sensitivity can be set on the APP.

- PikaBoost provides assistance to your bike during uphill roads and adjusts the lowest detectable slope according to the slope sensitivity set on the APP.
- Higher slope sensitivity leads to a smaller detectable slope, and the PikaBoost will be more sensitive to the slope with more timely assistance.





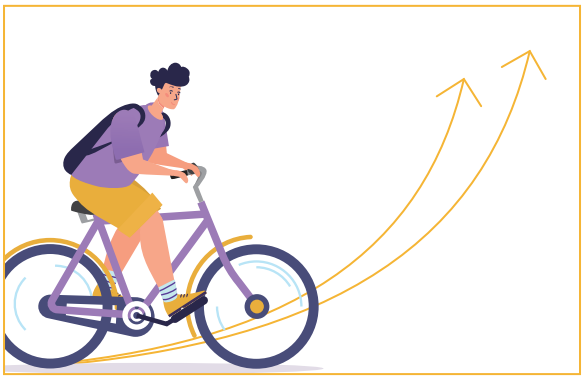
Low slope sensitivity: assistance will be provided on a relative big slope.

High slope sensitivity: assistance can be provided on a small slope.

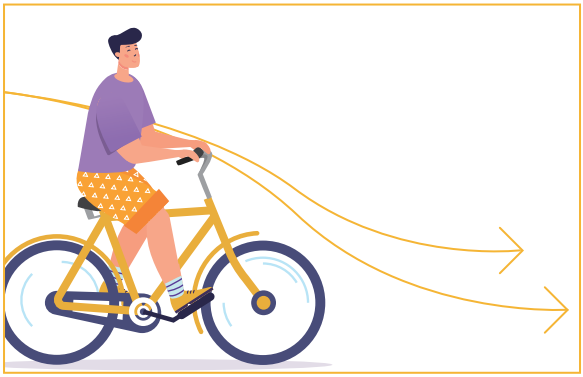
2.Free Cruise

When PikaBoost detects a ride, it powers your bike and maintain the current speed, allowing you to enjoy riding at your current speed without pedaling.

• To speed up, the assistance increases as the pedaling frequency is accelerated.



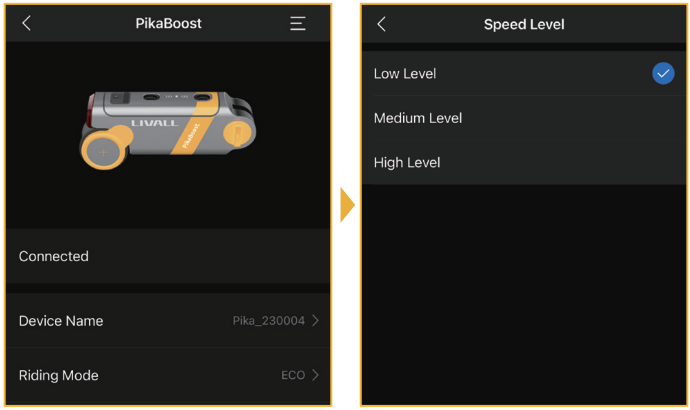
• Press the brake if you need to slow down, and PikaBoost stops powering your bike after the brake sensor detects the brake action. Then PikaBoost provides corresponding assistance to maintain riding according to the reduced speed.



Extra kinetic energy is converted to electrical energy during downhill roads and the regenerative level can be set on the APP.

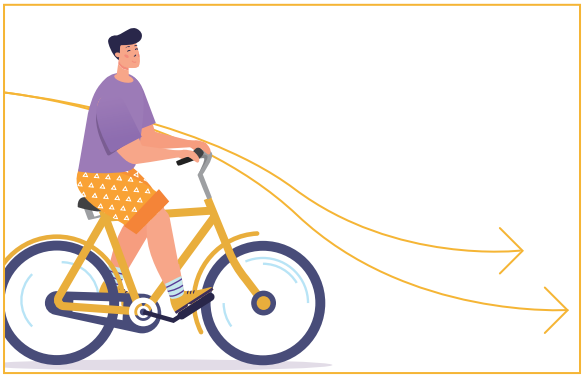
3. Cruise Control

Before use, it is necessary to set up the speed level on the APP.
When PikaBoost detects a ride, it begins to power your bike and increases assistance rate gradually until it reaches the preset speed level and maintain this speed for riding.



It is recommended to test every speed level in an open place and select a suitable level.

• Press the brake if you need to slow down, and PikaBoost stops powering your bike after the brake sensor detects the brake action. Then PikaBoost provides corresponding assistance to maintain riding according to the reduced speed.



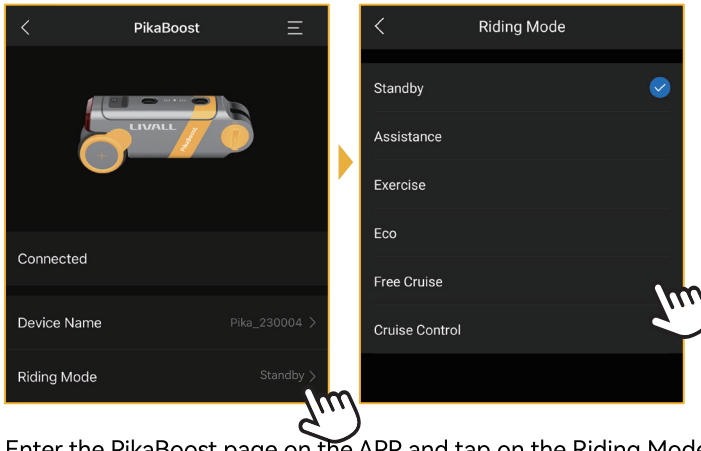
• To speed up, the assistance increases as the pedaling frequency is accelerated until the speed reaches the preset level and then PikaBoost maintains this speed for riding.

Extra kinetic energy is converted to electrical energy during downhill roads and the regenerative level can be set on the APP.

⚠ WARNING!
When in a non-riding state such as walking with the bicycle, it is important to switch the PikaBoost from riding mode to standby mode using the Brake Controller or APP. This will avoid the risk of serious injury or death if the PikaBoost starts the motor to provide assistance to the bike during walking.

Switch the Riding Modes

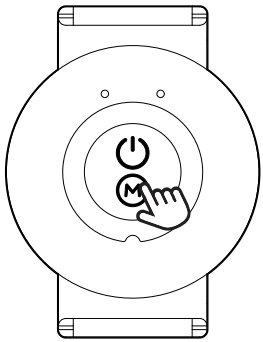
1. Switch the riding modes via the APP



Enter the PikaBoost page on the APP and tap on the Riding Mode to select one.

2. Switch the riding modes via the remote controller

After mounting the paired remote controller to the handlebar, you can switch the riding modes by single pressing or double pressing the button on the remote controller.



- Single press:
  switch between standby mode and current riding mode
- Double press:
  switch between available riding modes

  Note: The available riding modes vary between countries.

Note: Please refer to the content of Installation and Usage of the PikaBoost for detailed instructions.

Installation and Usage of the Remote Controller

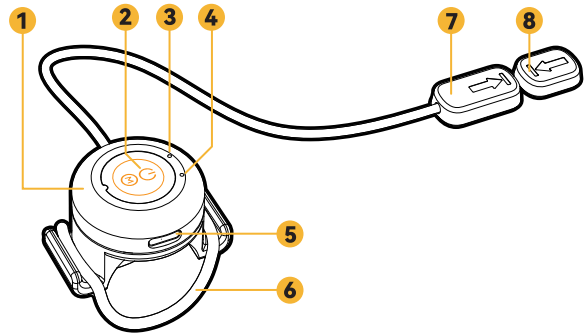
Installation of the Remote Controller

If your country/region supports auto assist ride type, you can enjoy automatic riding after mounting the remote controller to the bike handlebar and matching it with your PikaBoost.

Functioning Principle

After successfully mounting the remote controller to the handlebar near the rear brake and the brake is pressed, the brake sensor keeps its distance from the magnet, so the sensor fails to detect the magnetic field and the receiver detects the braking signal, which will be transmitted to the matched PikaBoost to stop assistance. When you enjoy riding without pressing the brake, the brake sensor and the magnet stick together, thus the receiver detects the signal of normal riding and the PikaBoost provides assistance to the bike. Please install the remote controlleraccording to this principle.

Part name



1 Receiver
Detect braking signal

2 Button
Power on/off, switch the riding modes

3 Charging Indicator
Display the battery status:
turning green when charging;
green light off when completing charging;
turning red for low battery.

4 Brake Indicator
Turn blue when braking

5 USB-C Charging Port

6 Rubber Band

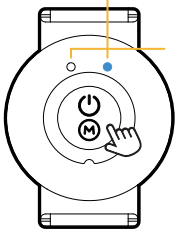
7 Sensor

8 Magnet

Matching Method

For the first use of the remote controller, you need to match the PikaBoost with the remote controller via the APP to ensure normal use.

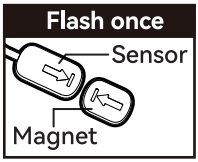
1 Power on the remote controller.



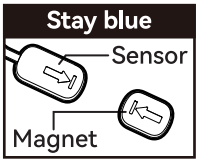
Long press to power on

Power indicator:
No light

Brake indicator:

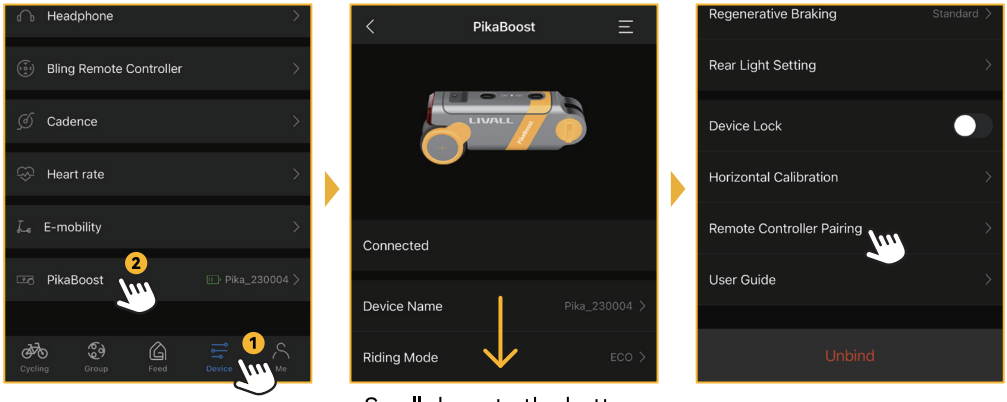


When the brake sensor sticks with the magnet, the power indicator is off and the brake indicator flashes once and then go out.



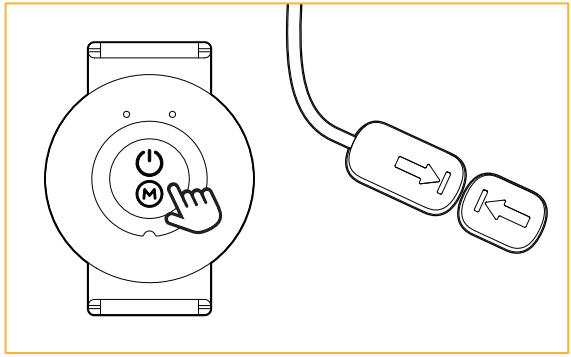
When the brake sensor keeps away from the magnet,
the power indicator is off and the brake indicator keeps blue.

2 Open the APP, enter the PikaBoost page, and tap Remote Controller Pairing.

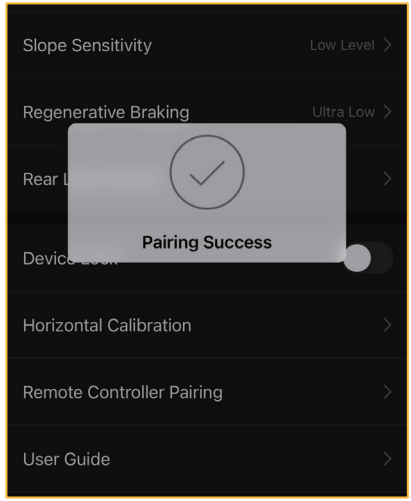


Scroll down to the bottom

3 Click the button on the receiver to begin the matching. Please ensure the brake sensor and the magnet stick together during the pairing process.

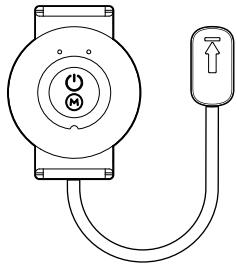


4 Pairing Success pops out after pairing.



Mounting Method

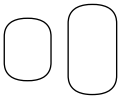
Your package contains the following items:



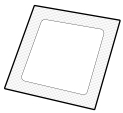
Receiver & Brake Sensor

Magnet

Rubber Band

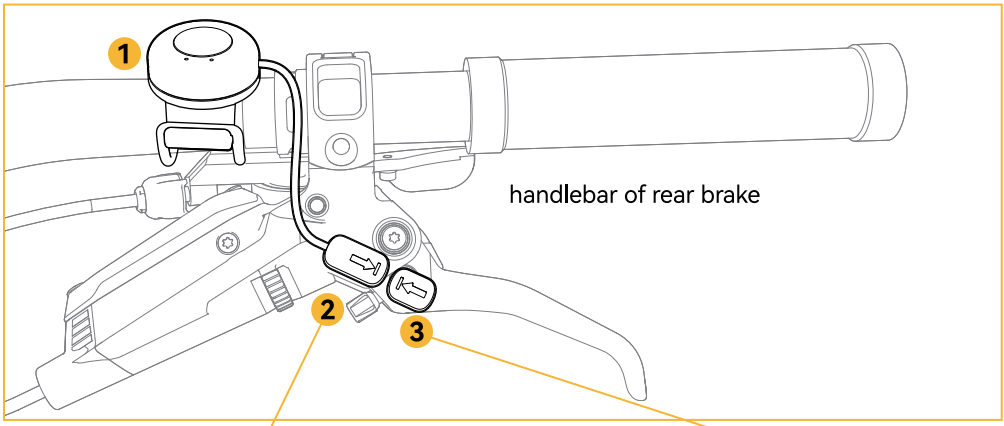


3M sticky pads



Wiper

1 Mount the receiver to the handlebar next to the rear brake with a supplied rubber band.



2 Peel off the sticky adhesive pads at the back of the sensor and attach it to the brake lever.

3 Peel off the sticky adhesive pads at the back of the magnet and attach it to the brake handle.

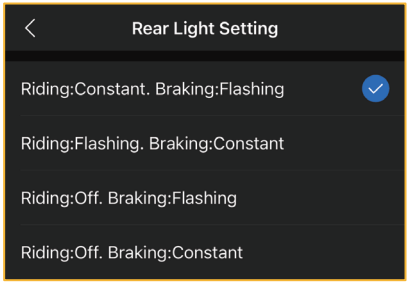
Note: Find a suitable place to attach the brake sensor and magnet as the style of the handlebar differs.

⚠ WARNING!
Before each ride, be sure to check the fixed situation of the brake sensor and magnet.
If they are loosened, refix them to a suitable place, or it may exist a potential danger during riding.

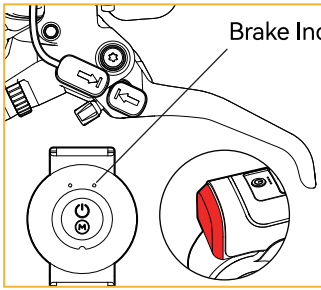
Check the Mounting Position

It is necessary to check whether the mounting position is the best one after attaching the remote controller to the handlebar. If the position is not sensitive enough to detect the brake signal, you need to adjust the position of the brake sensor and magnet until it reaches the most sensitive position.

Checking method:
Press the brake repeatedly and watch the lighting of the brake indicator and tail light.

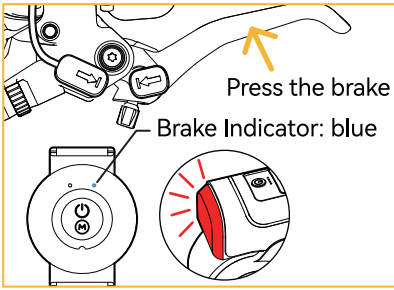


* Steadily on when riding and flash when braking is the default setting.



The optimum installation position when no braking:

No light on the brake indicator on the receiver and the tail light keeps red



The optimum installation position when pressing the brake:

The brake indicator on the receiver turns blue and the tail light flashes.

Note:

1. After mounting the remote controller to the handlebar, please charge the remote controller via the PikaBoost rather than removing it for charging.

2. Before every ride, be sure to power on the remote controller if you need to use auto assist ride. Then press the brake to activate the remote controller. Please check the situation of the remote controller and confirm the optimal position of the remote controller.

3. As the stickiness of the sticky adhesive pad will gradually deteriorate with use. For your riding safety, please replace the adhesive pad on the back of sensor and magnet in time. If the supplied 3M sticky pads are used up, you can purchase double sided tape by yourself, and the 3M strong adhesive is recommended.

Usage

After successfully mounting the paired remote controller to the handlebar, you can switch the riding modes by single pressing or double-pressing the button on the remote controller.

Riding Modes	Power Button	**Beep from Brake Controller:** For countries/regions that support automatic assistance	**Beep from Brake Controller:** For countries/regions that do not support automatic assistance
Standby	Single press	“Beep” for two seconds in low frequency	“Beep” for two seconds in low frequency
Assistance	Double press	A "beep" in high frequency	A "beep" in high frequency
Exercise		Two "beep" in high frequency	Two "beep" in high frequency
ECO		Three "beep" in high frequency	Three "beep" in high frequency
Free Cruise		Four "beep" in high frequency	Unavailable
Cruise Control		Five "beep" in high frequency	Unavailable

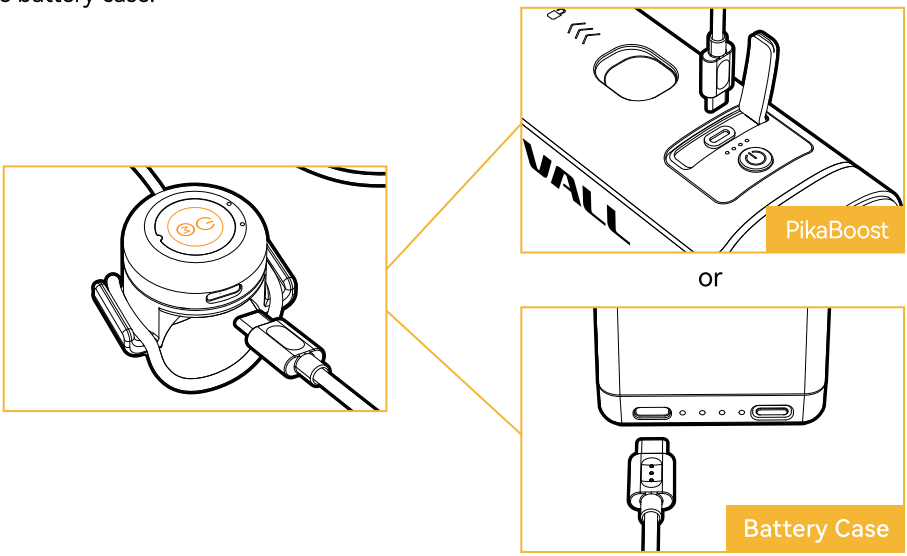
Note: If you need to use ECO mode, free cruise mode, and cruise control mode, please make sure you have mounted the paired remote controller to the handlebar in advance, and activate the remote controller by pressing the brakebefore every ride to ensure normal use and safe riding.

⚠ WARNING!
When in a non-riding state such as walking with the bicycle, it is important to switch the PikaBoost from riding mode to standby mode using the Brake Controller or APP. This will avoid the risk of serious injury or death if the PikaBoost starts the motor to provide assistance to the bike during walking.

Charge the Remote Controller

When the battery is in low battery, the charging indicator turns red. Please charge the remote controller asap.If the remote controller has been mounted to the handlebar, it is recommended to charge it via the PikaBoost or a power bank, rather than dismantling it from the handlebar for charging.

Insert the supplied Type-C charging cable into the USB-C port on the receiver and the PikaBoost or the battery case.



Specifications of the Remote Controller

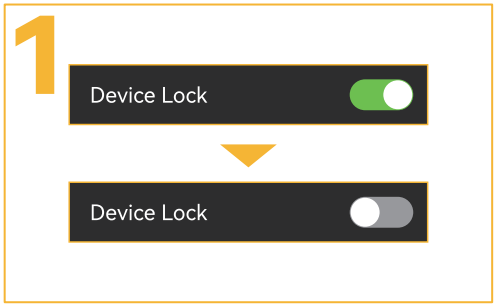
Wireless Transmission Protocol	2.4G RF
Charging Port	Type-C
Charging Hour	2.5h
Supported Charging Voltage	5V

Notes After Riding

After riding, you can take down the PikaBoost from the rear tire or just take out the battery case from the PikaBoost if you park your bike outside.

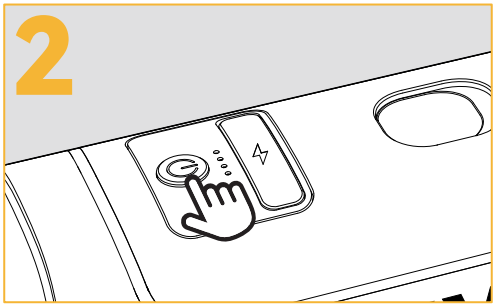
Take Down the PikaBoost from the Rear Tire

Unlock the device lock on the APP by taping the Device Lock on the PikaBoost page.



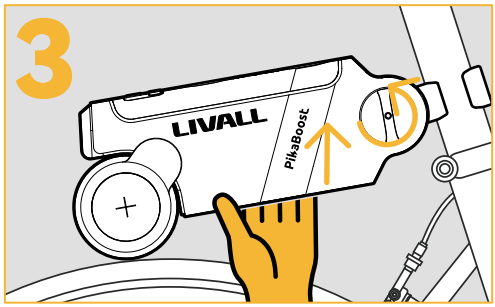
Note: It is successfully unclocked after the motor sounds.

Power off the PikaBoost.
Long press the power button on the Pika-Boost until the power indicators go out.



Note: Be sure to remove the PikaBoost when it is powered off.

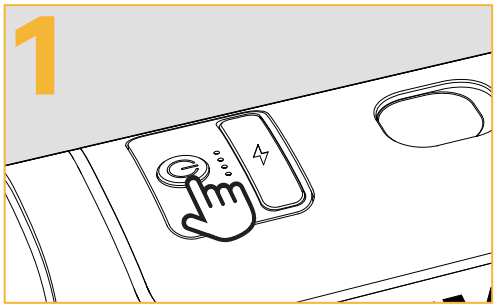
Twist the knob anticlockwise to take down the PikaBoost.



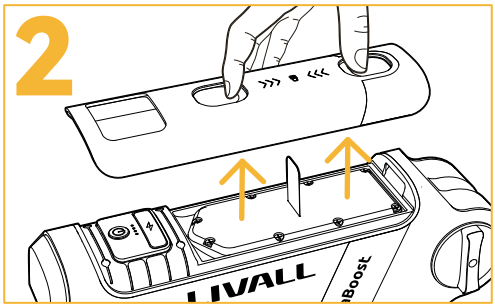
Note: To avoid dropping off during the dismantling process, it is recommended to hold the bottom of the PikaBoost with one hand and twist the knob with another hand.

Take Out the Battery Case from the PikaBoost

Power off the PikaBoost. Long press the power button on the PikaBoost until the power indicators go out.

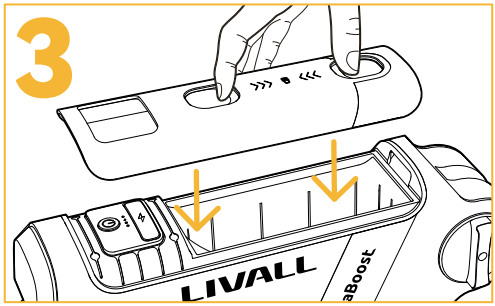


Open the body lid and take out the battery case from the housing.



Note: Be sure to remove the battery case when the PikaBoost is powered off.

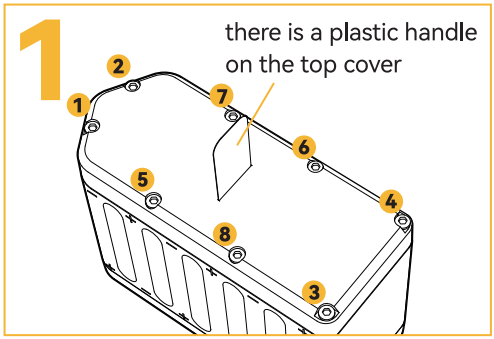
Cover the body lid.



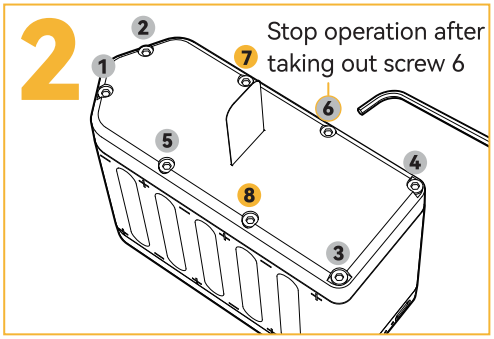
Installation and Disassembly of the Battery Cells

Dismantling of Battery Cells

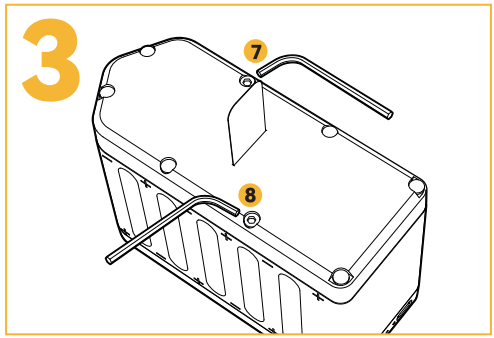
If you need to dismantle/replace the battery cells due to battery aging, airline check-in restrictions, filling an empty battery compartment or other circumstances, please be sure to strictly follow the steps below, or watch the instruction videos on our website.



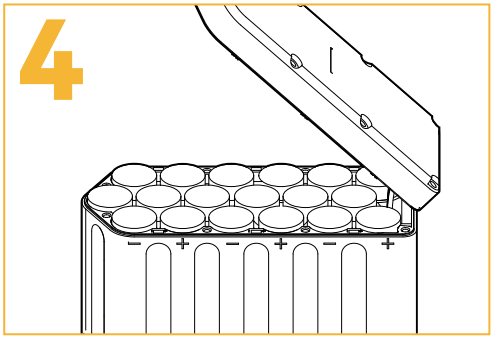
Place the battery case in the direction in the image and look over the number.



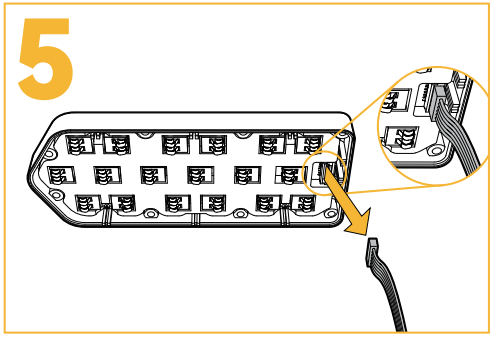
Take out the screws with a wrench according to the sequence. Please stop for a while after unscrewing the screw 6.



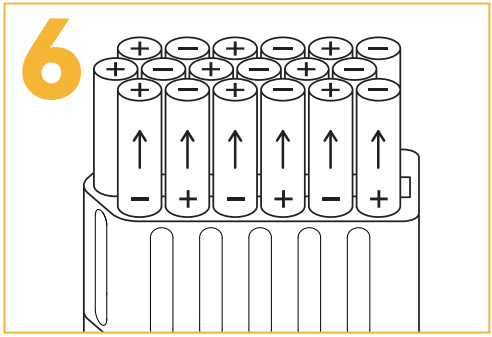
When only screw 7 & 8 are left, take turns in loosening them alternately and take out them together. Do not take out one of the screws separately.



Turn up the lid head until you can see the flat cable connected between the case and the lid. Please do not lift up the battery lid directly as it may cause damage to the flat cable. Also, do not mislocate the lid on the case to avoid a short circuit.

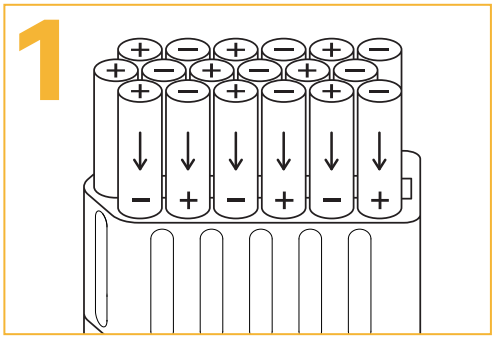


Unplug the flat cable connected to the lid and take out the whole battery lid.

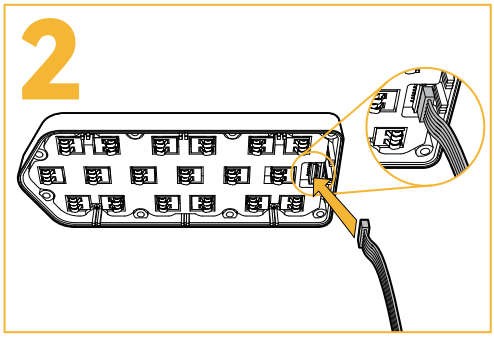


Hold and put aside the battery cells gently and slightly.

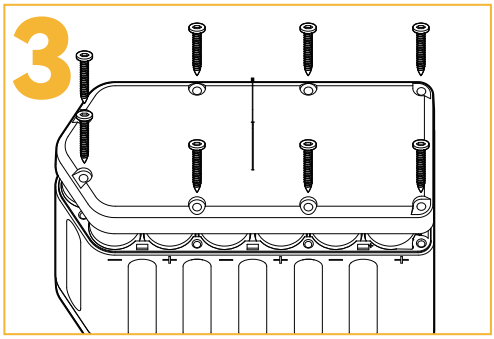
Install the Battery Cells



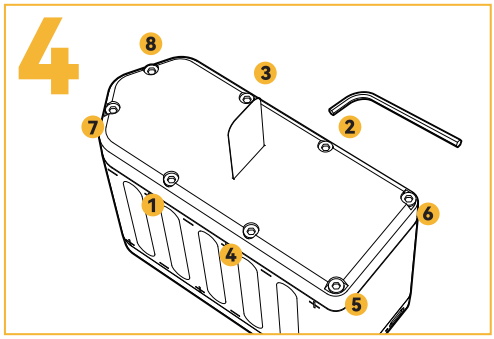
Put the battery cells into the battery compartment in strict accordance with the battery direction in the picture. Please pay attention to the distribution of the positive and negative poles of the battery cells. If the battery cells are mounted in the wrong direction, it will cause a short circuit or even fire and explosion.



Insert the flat cable at the tail of the battery compartment into the socket inside the battery lid and fix it. Please check the fixed status of the flat cable to avoid poor contact caused by loose cables. Then stuff the excess cable into the battery case.

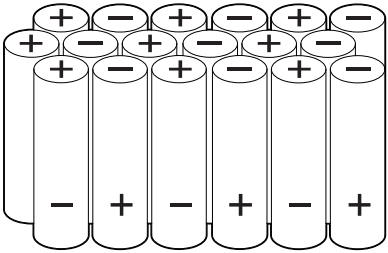


Align the battery lid with the battery case. Cover the lid on the case. Then put the screws into the screw holes to avoid battery dislocation and short circuits caused by battery lid movement.



Press the battery lid with your hand, and alternately tighten the screw 1 & 2. Then fully tighten the other screws according to the sequence in the image.

Selection and Storage of Battery Cells



Voltage: 3.7V
Capacity: 3000mAh
Size: 18x65mm

1. There are various types of lithium batteries available in the market, each with its own variations in quality, performance, and safety. Considering the importance of safety and reliability when it comes to using batteries, it is recommended to directly contact LIVALL for purchasing battery cells for PikaBoost. LIVALL possesses the expertise to provide suitable channels and purchasing advice for lithium batteries.

2. Dispose of waste battery cells in accordance with local regulations. Do not dispose of them as household waste. If so, it may arouse environmental pollution and even fire and explosions.

[redacted]

4. If you need to separate the battery cells due to the restriction of air transportation, please use the plastic storage box to separate the battery cells and avoid contact with metal.

[redacted]

Battery Specifications

Battery Pack

Capacity	199.8Wh，9000mAh
Type	18650 Lithium Battery
Weight	1.12kg/2.47lbs
Dimension	57.6×137.9×89.6mm
Voltage	22.2V
Charging Hour	2.6h（20V/4A 80W）
Charging Port	Type-C
USB-C Input	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/4A，80W max
USB-C Output	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3A，60W max
Supported Charger	QC2.0/QC3.0/QC3+, FCP, AFC, SCP and PD2.0/PD3.0

Battery Cells

Supported capacity	3000mAh
Supported voltage	3.7V
Type	18650 Lithium Battery (Power Battery)
Dimension	18x65mm

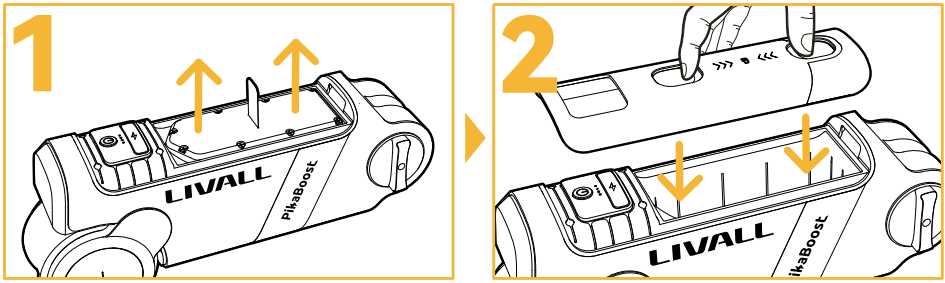
Note:
Considering the importance of safety and reliability when it comes to using batteries, it is recommended to directly contact LIVALL for purchasing battery cells or recommendations.

Please change the 18 battery cells in the same voltage, capacity, and brand at a time.

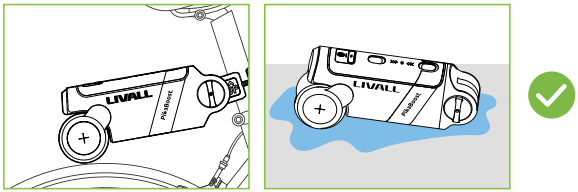
Maintenance

Wet your PikaBoost with a dampened sponge or soft brush, then wipe the body with soapy water or water.

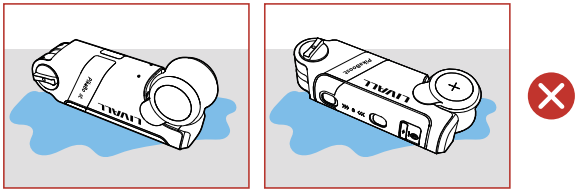
1. Before the cleaning, please take out the battery compartment from the PikaBoost housing, and cover the house lid on the PikaBoost. Please check the tightness of the house lid and port cover to make sure the water would not flow into the house.



2. During watering, please keep the PikaBoost upright on a surface or on the bike.



Do not upend or keep it flat.



Note: Do not use high-pressure water streams to clean your e-bike, as water might seep inside the motor or the wiring compartment and cause rusting of electrical parts or short circuits.

⚠ WARNING!
Keep the electronic components inside your PikaBoost away from water.

Safety Information

1. Keep the product dry. Do not use the product in places with dust, moisture, or dirt to avoid internal circuit malfunctions.

2. Do not use this product during thunderstorms. Thunderstorms may cause equipment malfunctions or motor hazards.

3. Do not use the PikaBoost to supply power when rainy riding. Dry your USB-C charging port before charging if there are water stains.

4. Use this product within the charging temperature range of 0°C-40°C and the discharging temperature range of -10°C to 40°C. Store the device and its accessories within the temperature range of -10°C to 40°C. Extreme temperatures may cause equipment malfunctions.

5. When charging the device, the power socket should be installed near the device and easily accessible. When charging is complete or not needed, please disconnect the charger from the device and unplug it from the power socket.

6. If the device needs to be charged via a USB port, make sure the USB port has the USB-IF logo and meets the relevant specifications of USB-IF.

7. Keep the device and battery away from sources of fire, high temperatures, and direct sunlight.

8. Do not throw the battery into the fire. Do not disassemble, drop, crush, or modify the battery. Do not insert foreign objects or puncture the battery.

9. Do not immerse the battery in water or other liquids. Avoid external impacts, pressure, or severe collisions on the battery to prevent leakage, overheating, fire, or explosion.

10. Dispose of the device, battery, and other accessories according to local regulations. Do not treat them as household waste. Improper disposal of batteries may lead to explosions.

11. The device and its accessories may contain small parts. Please keep them out of the reach of children. Children may accidentally damage the device and its accessories or swallow small parts, leading to choking or other dangers.

Warranty Policy

1. Basic Information

• For product malfunctions, please contact LIVALL customer support directly. For more details, visit livall.com or livall-pikaboost.com,or email pikaboost@livall.com.
• The warranty period of the product is subject to the warranty period announced by LIVALL on the official website.

2. Warranty Regulations

• The warranty period for the product starts from the shipping date plus the grace period.
• Repaired products continue to enjoy warranty services within the warranty period. If the warranty period is less than three months from the end, the replaced parts have a three-month warranty from the date of replacement. Replaced parts belong to the manufacturer, and appropriate costs may be charged when necessary.

3. Non-warranty Regulations

• Non-hardware-based technical problems.
• Products without the LIVALL logo. Non-LIVALL accessories or user-replaced accessories which have not been purchased from LIVALL or a LIVALL authorized seller.
• Cleanliness or regular maintenance of the product.
• Consumable materials (such as natural consumption, wear and tear, and aging of the housing, plug-in parts, and battery cells), malfunction or damage caused by incorrect installation, operation (such as mixing battery cells when replacing them, etc.), or use in an operating environment other than that specified for the product (such as excessively high or low temperature, excessive humidity or dryness, high altitude, unstable voltage or current, etc.).
• Damage caused by accident, abuse (including exceeding the working load), or improper use.
• Damage caused by improper storage (such as rodent damage, and liquid infiltration).
• Malfunctions or damage caused by unauthorized disassembly and repair, unauthorized modification, or abuse.
• Damage caused by repairs not performed by a LIVALL-authorized repair center.

Statement of Removable & Replaceable Lithium Battery

This product is equipped with a battery pack containing 18 lithium battery cells. To ensure safety and performance, please note the following:

1.Do not individually remove and charge the lithium batteries from the battery pack. If the lithium batteries are charged separately and used with different charging voltages, these batteries should not be used together in the same battery pack, as it may cause circuit malfunctions, and even fire or explosion.

2.Follow the charging method provided in the online manual strictly on the LIVALL official website for charging the batteries.

3.Improper battery replacement may result in an explosion, and the batteries contain a small amount of hazardous substances. If you need to replace the battery cells, please replace all 18 cells to ensure consistent voltage.

4.There are various types of lithium batteries available in the market, each with its own variations in quality, performance, and safety. Considering the importance of safety and reliability when it comes to using batteries, it is recommended to directly contact LIVALL for purchasing battery cells for PikaBoost. LIVALL possesses the expertise to provide suitable channels and purchasing advice for lithium batteries.

5.For inquiries pertaining to product installation, lithium battery replacement and safety, as well as device repairs concerning the PikaBoost, we recommend seeking guidance from LIVALL technicians. Their expertise enables them to offer accurate insights on the proper usage, maintenance, and safety measures associated with lithium batteries.

Contact us

Website: www.livall-pikaboost.com; www.livall.com
E-mail: pikaboost@livall.com