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> LIVALL PikaBoost 2 E-Bike Rear Wheel Conversion Kit User Manual

LIVALL Essential Edition

LIVALL PikaBoost 2 E-Bike Conversion Kit User Manual

Model: Essential Edition

1. INTRODUCTION

The LIVALL PikaBoost 2 is an innovative rear-wheel e-bike conversion kit designed to transform your standard bicycle into an electric one with ease. It features a 220Wh battery, integrated LED lighting, and app control for a seamless riding experience. This manual provides comprehensive instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and safety.



Figure 1: The LIVALL PikaBoost 2 E-Bike Conversion Kit installed on a bicycle.

2. PRODUCT OVERVIEW AND COMPONENTS

The PikaBoost 2 kit includes the main unit, a removable battery, a remote controller, and necessary installation

tools. Key features include a durable V-shape tire for excellent grip, a multi-layered Battery Management System (BMS) for safety, and smart connectivity via a dedicated app.



Figure 2: Included components of the PikaBoost 2 kit.

Compatibility Guide

Ensure your bicycle meets the following compatibility requirements before installation:

Compatibility Guide

Bike Models	most common hardtail bikes (mountain bikes, road bikes, hybrid bikes, folding bikes)		
Wheel Size	35.6–73.7 cm/14–29 inches		
Seat Tube	Size: round tube		
	Length: over 50 mm/1.97 inches		
	Diameter: 25–35 mm/0.98–1.38 inches		
Tire Width	V-shaped Tire 25–65 mm/ 1.0–2.6 inches	Road Tire 23–32 mm/ 0.9–1.3 inches	Mountain Tire 45–65 mm/ 1.8–2.6 inches

Notes: Not suitable for tricycles, wheelchairs, D-shaped seat tubes, carbon fiber seat posts, or rear-suspension bikes.

Figure 3: PikaBoost 2 compatibility specifications.

- **Bike Types:** Most common hardtail bikes (mountain bikes, road bikes, hybrid bikes, folding bikes).
- **Wheel Size:** 35.6-73.7 cm (14-29 inches).
- **Seat Tube Size:** Round tube, over 50mm (1.97 inches) length, 25-35mm (0.98-1.38 inches) diameter.
- **Tire Width:** V-shaped Tire: 25-65mm (1.0-2.6 inches); Road Tire: 23-32mm (0.9-1.3 inches); Mountain Tire: 45-65mm (1.8-2.6 inches).
- **Note:** Not suitable for tricycles, wheelchairs, D-shaped seat tubes, carbon fiber seat posts, or rear-suspension bikes.

3. SETUP AND INSTALLATION

The LIVALL PikaBoost 2 is designed for quick and secure installation without complex wiring. Follow these steps for proper setup:

1. **Attach the Main Unit:** Securely attach the PikaBoost 2 main unit to your bike's seatpost using the provided clamp. Ensure the unit is positioned so the drive wheel makes firm contact with the bicycle's

rear tire.

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Video 1: How to Easily Install and Remove PikaBoost 2. This video demonstrates the quick attachment and detachment process of the main unit to the bicycle's seatpost.

2. **Install the Remote Controller:** Attach the Bling Remote Controller to your handlebar using the rubber band. For the intelligent e-brake feature, stick the small magnet sensor onto your brake lever. This allows the system to automatically cut off motor power when braking.

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Video 2: How to Install the Remote Controller. This video guides you through attaching the remote and setting up the brake sensor.

3. **Download and Connect to App:** Download the LIVALL app from your device's app store. Connect the PikaBoost 2 to the app via Bluetooth.
4. **Initial Calibration:** Use the app for automatic installation and calibration. This ensures the unit is properly aligned and ready for use.

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Video 3: Firmware Upgrade Guide. This video shows how to connect the device to the app and perform a firmware upgrade, which is often part of initial setup and calibration.

5. **Firmware Update:** Check for and install any available firmware updates through the LIVALL app to ensure optimal performance and access to the latest features.

4. OPERATING INSTRUCTIONS

The PikaBoost 2 offers multiple riding modes and smart features controlled via the remote and the LIVALL app.

Riding Modes

Switch between 4 modes using the app or remote controller to suit your riding style:

- **Standby Status:** The unit is ready but not providing assistance.
- **Assist Mode:** Provides power assistance to make pedaling easier, ideal for general riding and hills.
- **Cruise Mode:** Maintains a set speed, allowing for effortless cruising on flat surfaces.
- **Workout Mode:** Increases resistance for a more challenging workout, while also regenerating battery power.

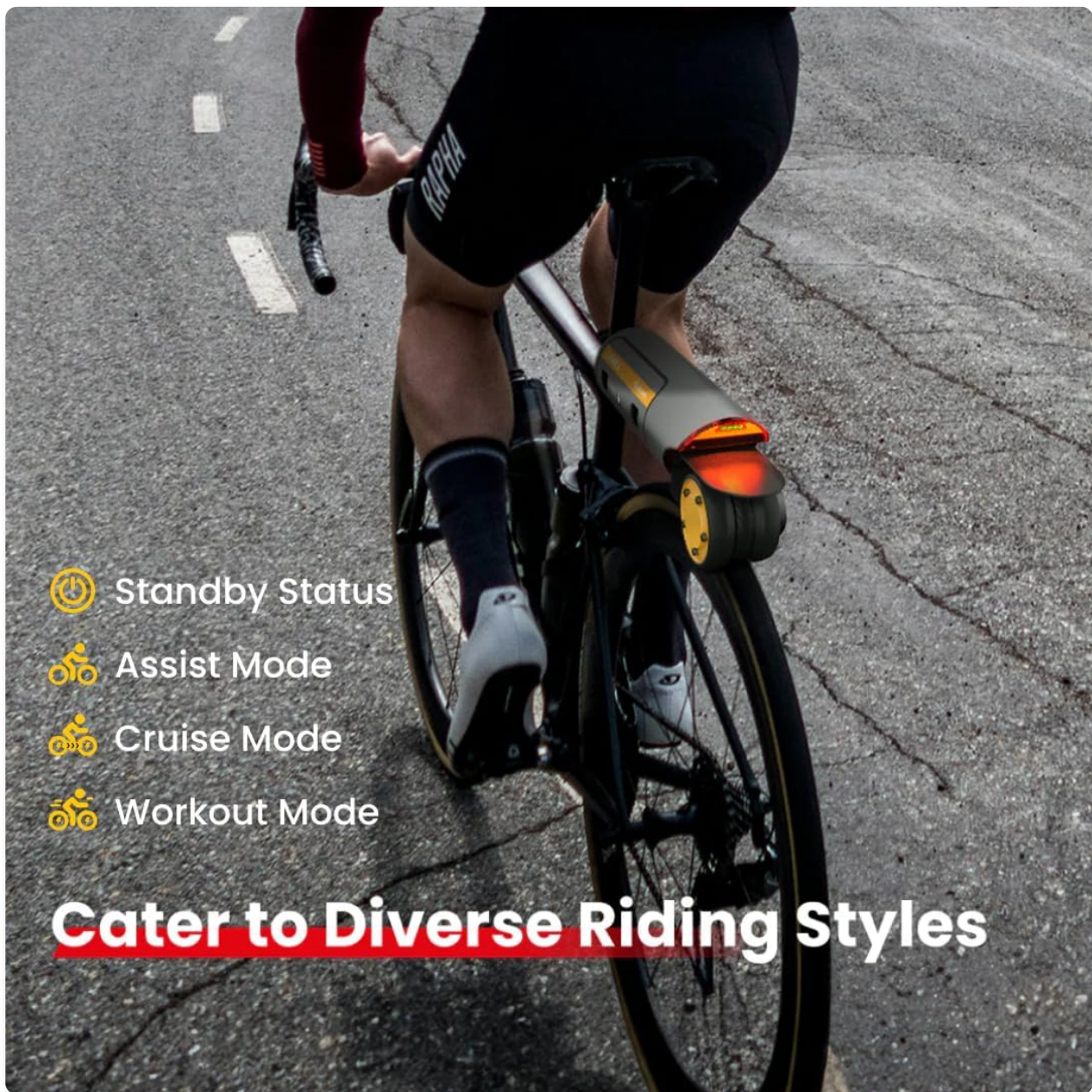


Figure 4: PikaBoost 2 modes cater to diverse riding styles.

App Control and Connectivity

The LIVALL app provides advanced control and monitoring features:

- Automatic installation and calibration.
- Adaptation to local traffic regulations.
- Switching between all 4 modes.
- Over-The-Air (OTA) updates for firmware.
- Ability to create groups with friends for shared rides.
- Remote troubleshooting functions.

5. BATTERY AND CHARGING

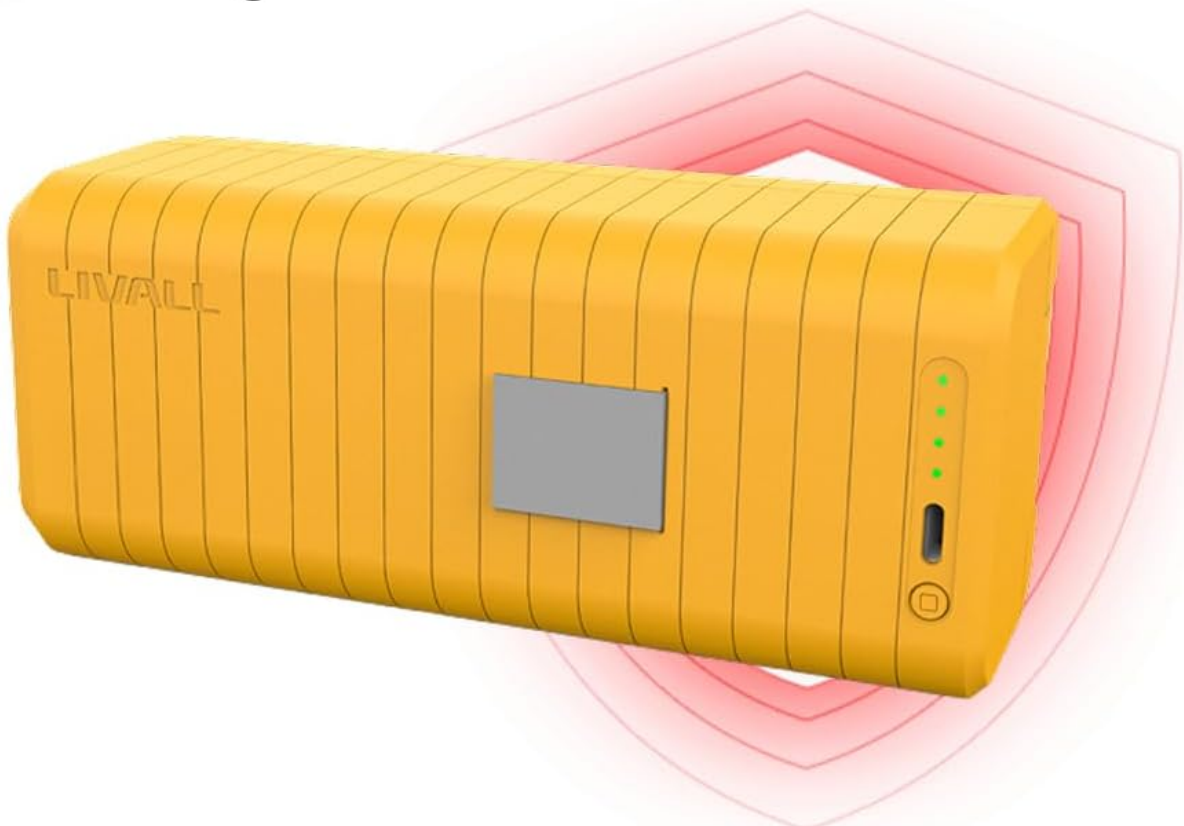
The PikaBoost 2 is equipped with a durable, long-lasting battery and versatile charging options.

- **Battery Models:** Available in 220Wh (up to 70km/43 miles range) and 158Wh (up to 50km/31 miles range) models under ideal conditions.
- **Battery Management System (BMS):** Features a multi-layered BMS for enhanced safety and longevity.
- **Charging Options:** Charge the PikaBoost 2 via the tail port or remove the battery for separate charging. Supports dual-way fast charging.
- **Power Bank Functionality:** The battery can also function as a power bank to charge your devices on the go.
- **Charge Level Indicator:** An external indicator shows the current charge level.

✓ Dual Protection

✓ Charging Protection

✓ Discharge Protection



*80% capacity retained after 1,000 cycles for both 158Wh & 220Wh batteries.

*Battery Compliance standards: UL227/UL2580 (US)

Figure 5: PikaBoost 2 battery with dual protection features.

Important Note: Use a 65W USB-C charger for optimal charging. The product only comes with the cable; the charger block must be purchased separately.

6. SAFETY FEATURES

The PikaBoost 2 incorporates several features to enhance rider safety:


- **Automatic Motor Shut-off:** The motor automatically shuts off if the PikaBoost gyroscope detects a tilt

over 30°.

- **SOS Alert:** If the tilt exceeds 60°, an SOS alert is triggered, reducing injury risk on slippery roads or sharp turns.
- **Bright LED Rear Light:** Integrated bright LED rear light for improved visibility.
- **Durable Tire:** The V-shape tire offers excellent grip and lasts for 3,000 to 5,000 km.

Multilayer Protection

 Durable Tire

 Replaceable Battery

 Bright LED Rear Light

 SOS Alert



Figure 6: Multilayer protection features of the PikaBoost 2.

7. MAINTENANCE

To ensure the longevity and optimal performance of your PikaBoost 2, regular maintenance is recommended:

- **Clean the Unit:** Regularly wipe down the main unit and drive wheel to remove dirt and debris.
- **Check Tire Contact:** Periodically inspect the contact between the PikaBoost 2 drive wheel and your bicycle's rear tire to ensure proper friction and prevent slippage.
- **Battery Care:** Store the battery in a cool, dry place. Avoid extreme temperatures. If not used for extended periods, charge the battery to about 50% every few months.
- **Firmware Updates:** Keep the device firmware updated via the LIVALL app to benefit from performance improvements and bug fixes.

- **Remote Controller:** Ensure the remote controller is securely mounted and its battery is functional.

8. TROUBLESHOOTING

Here are some common issues and their potential solutions:

Issue	Possible Cause	Solution
Unit not turning on/off reliably.	Software glitch, battery issue, or improper power button use.	Ensure you press the power button to turn off the unit after riding. If issues persist, remove and re-install the battery, then try turning it on again. Check for app settings like 'Auto Off'.
Motor assistance is weak or inconsistent.	Insufficient tire contact, low battery, or calibration issue.	Ensure the PikaBoost 2 drive wheel has firm contact with your bike's tire. Check battery level. Re-calibrate the unit via the LIVALL app.
Rear light not working or flashing inconsistently.	App settings, firmware issue, or physical damage.	Check the rear light settings in the LIVALL app. Ensure firmware is up to date. If the issue persists, contact customer support.
Difficulty pairing with phone via Bluetooth.	Bluetooth interference, unit not in pairing mode, or app issue.	Ensure Bluetooth is enabled on your phone and the PikaBoost 2 is powered on. Try unbinding and re-pairing the device in the app. Keep your phone close to the unit during pairing.
Battery not fully charging or showing incorrect charge level.	Charger issue, battery degradation, or charging port problem.	Ensure you are using a 65W USB-C charger. Try a different charger or cable. If the battery is old, it may need replacement.
Unit adds noise or vibration during operation.	Tire tread type, improper installation, or unit malfunction.	Flatter tire treads may reduce noise. Ensure the unit is securely installed and calibrated. If excessive, contact customer support.

9. SPECIFICATIONS

Feature	Detail
Model Name	Essential Edition
Brand	LIVALL
Bike Type	Electric Bike (Conversion Kit)
Age Range (Description)	Adult

Feature	Detail
Number of Speeds	1
Color	Dark Gray
Frame Material	Aluminium alloy
Suspension Type	Rigid
Special Feature	Portable, Power Assist
Included Components	Tool Kit
Item Package Dimensions L x W x H	17.24 x 7.6 x 5.2 inches
Package Weight	8.8 Pounds
UPC	199284230699
Manufacturer	LIVALL

10. WARRANTY AND SUPPORT

The LIVALL PikaBoost 2 comes with a **1-Year Warranty Protection**. For any issues, technical support, or warranty claims, please contact LIVALL customer service. Refer to the official LIVALL website or the quick guide for contact information.