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> Jasion RetroVolt Pro Electric Bike User Manual

## Jasion RetroVolt Pro

# Jasion RetroVolt Pro Electric Bike User Manual

Model: RetroVolt Pro

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, assembly, and maintenance of your Jasion RetroVolt Pro Electric Bike. Please read this manual thoroughly before your first ride and retain it for future reference.



Image 1.1: The Jasion RetroVolt Pro Electric Bike, showcasing its design and fat tires.

## 2. SAFETY INFORMATION

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Operating an electric bike requires attention to safety. Always wear a helmet and appropriate safety gear. Adhere to all local traffic laws and regulations.

- **Pre-Ride Check:** Before each ride, inspect brakes, tire pressure, battery charge, and ensure all components are securely fastened.
- **Visibility:** Use the integrated lighting system, especially during low-light conditions. Consider wearing reflective clothing.
- **Weather Conditions:** Exercise caution when riding in wet or slippery conditions. Hydraulic disc brakes offer improved performance in such environments, but reduced traction remains a factor.
- **Weight Limit:** Do not exceed the maximum load capacity of 330 lbs (150 kg).
- **Age Range:** This electric bike is designed for adult use.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package before beginning assembly.

- Jasion RetroVolt Pro Electric Bike Frame
- 52V 20Ah Removable Battery
- Battery Charger (3A)
- Cargo Rack
- User Manual (this document)
- Assembly Tools (if included)

## 4. SETUP AND ASSEMBLY

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The Jasion RetroVolt Pro requires some assembly. Follow these general steps. For detailed visual instructions, refer to the assembly guide provided separately or on the official Jasion website.

1. **Unpacking:** Carefully remove all components from the packaging.
2. **Handlebar Installation:** Attach the handlebars to the stem, ensuring they are centered and tightened securely.
3. **Front Wheel Attachment:** Install the front wheel, ensuring the quick-release skewer or axle nuts are properly secured. Verify brake rotor alignment.
4. **Pedal Installation:** Attach the pedals. Note that pedals are typically marked 'L' for left and 'R' for right. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise.
5. **Seat Post Adjustment:** Insert the seat post and adjust the seat height for comfortable riding. Secure the quick-release lever.
6. **Battery Installation:** Insert the fully charged battery into its compartment and ensure it locks securely.
7. **Final Inspection:** Double-check all bolts, nuts, and quick releases for tightness. Ensure tires are inflated to the recommended pressure.



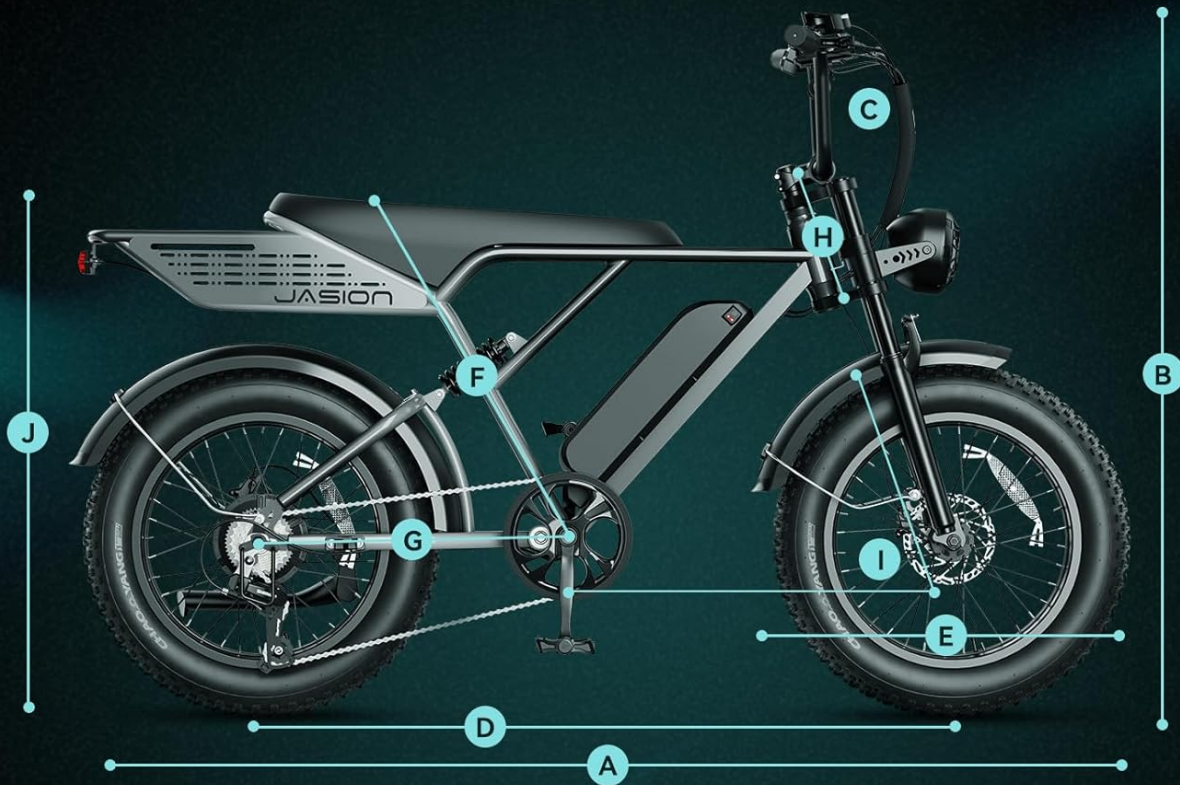
**37KG**  
Bicycle Weight



**5'3"-6'2"**  
Rider Height



**330 LBS**  
Load Capacity



A - Total Length: 1700mm  
 B - Handlebar Height: 1100mm  
 C - Handlebar Length: 730mm  
 D - Wheelbase: 1080mm  
 E - Wheel Diameter: 580mm

F - Minimum Seat Height: 620mm  
 G - Chain Stay Length: 500mm  
 H - Head Tube Length: 150mm  
 I - Head Angle: 730mm  
 J - Standover Height: 830mm

Image 4.1: Diagram illustrating the dimensions and load capacity of the Jasion RetroVolt Pro Electric Bike. Bicycle weight is 37kg, rider height range is 5'3" to 6'2", and load capacity is 330 lbs.

## 5. OPERATING INSTRUCTIONS

### 5.1 Powering On/Off and Display

To power on the bike, ensure the battery is installed and switched on, then press and hold the power button on the handlebar display. The full-color central display provides information such as speed, battery level, riding mode, and trip data.



Image 5.1: The LCD display showing speed (38 MPH) and battery level, along with icons for Throttle Mode, PAS Mode, Cruise Mode, Walking Mode, and Pedaling Mode.

## 5.2 Riding Modes

The RetroVolt Pro offers multiple riding modes for varied experiences:

- **Pedaling Mode:** Standard bicycle operation without electric assistance.
- **Pedal-Assist System (PAS) Mode:** The motor provides assistance as you pedal. Levels of assistance can typically be adjusted via the display controls. PAS 1 mode offers the longest range, up to 90 miles.
- **Throttle Mode:** Engage the throttle for electric power without pedaling.
- **Cruise Mode:** Maintains a set speed without continuous throttle input.
- **Walking Mode:** Provides low-speed assistance to help push the bike when walking alongside it.

## 5.3 Battery Operation and Charging

The bike is equipped with a 52V 20Ah removable battery, offering a range of up to 90 miles in PAS 1 mode.

- **Removal:** The battery can be removed for charging or security. Refer to the bike's frame for the specific release mechanism.
- **Charging:** Use the provided 3A charger. A full charge typically takes approximately 5 hours. Charge the battery in a well-ventilated area, away from flammable materials.
- **Battery Management System (BMS):** The battery features an intelligent thermal management system with overcharge and discharge protection, and is IP65 waterproof.

# Upgraded High-Capacity Battery

# 1040WH

## IP65

(WATERPROOF)

|               |                  |
|---------------|------------------|
| Retrovolt Pro | <b>80Miles</b> ⚡ |
| 52V 20AH      |                  |
| Others        | <b>60Miles</b>   |
| 48V 12.5AH    |                  |

Image 5.2: Illustration of the 52V 20Ah battery, highlighting its 1040WH capacity and IP65 waterproof rating. It also shows a comparison of range with other batteries.

## 5.4 Braking System

The RetroVolt Pro features dual hydraulic disc brakes for enhanced stopping power and control. These brakes provide responsive and reliable performance, especially in wet conditions, and significantly reduce stopping distances compared to mechanical brakes.

# Dual Hydraulic Brake



**2x** Hydraulic Brake



**40%** Braking Distance

Braking Efficiency

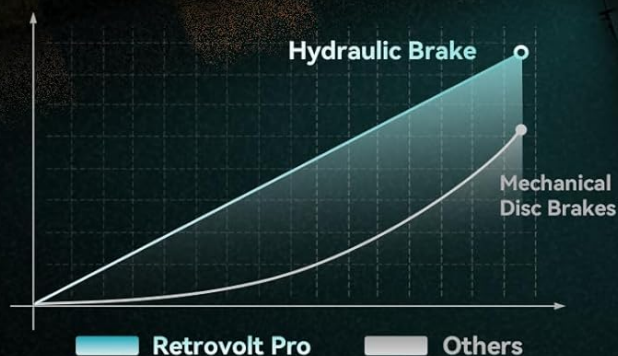


Image 5.3: Close-up of the dual hydraulic brake system, emphasizing its improved braking efficiency and reduced stopping distance compared to mechanical disc brakes.

## 5.5 Lighting System

The bike is equipped with an upgraded lighting system for safety and visibility. This includes a 600-lumen adjustable front light, brake lights, and turn lights.

# Upgrad Lighting System

600 Lumens

Before

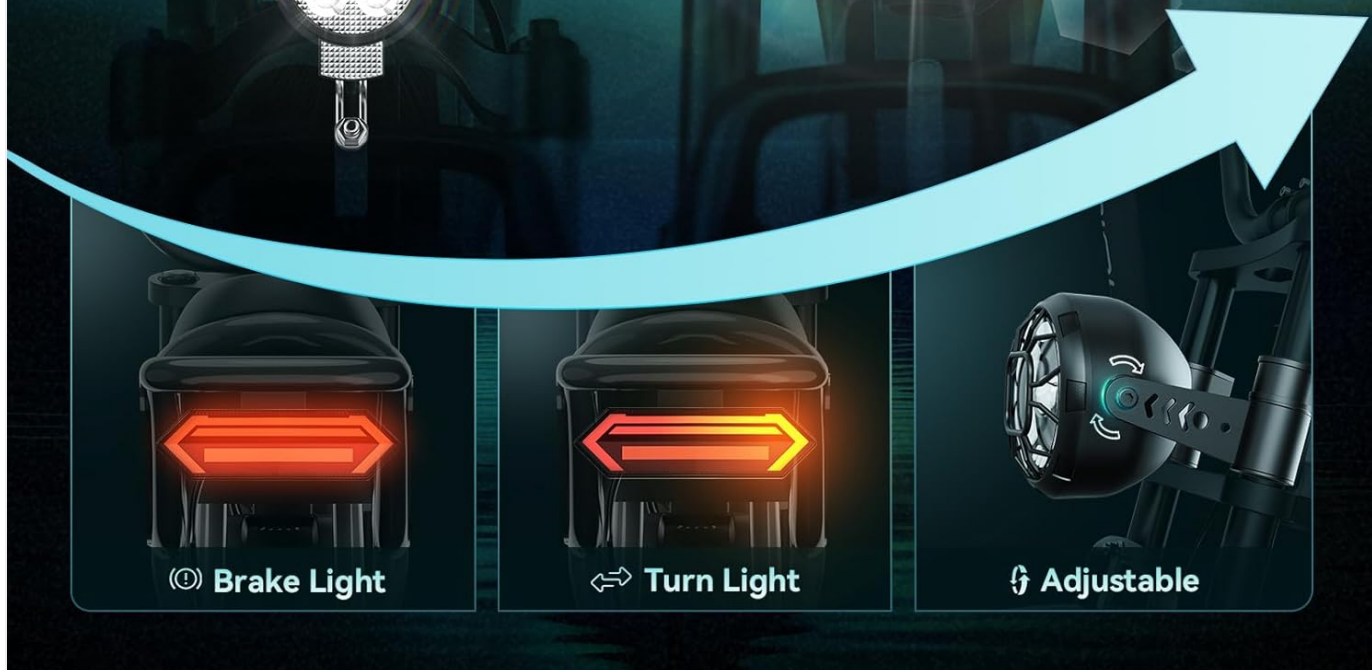


Image 5.4: Depiction of the upgraded lighting system, showing the 600-lumen front light, brake light functionality, and turn signal functionality.

## 5.6 Motor and Performance

The RetroVolt Pro features a high-performance motor with a peak output of 2000W, allowing for a top speed of 38 MPH. An integrated temperature control system prevents overheating and extends motor life. The bike also features a 7-speed precision gear system for optimal control and effortless riding.

# High-Torque Stabilized Motor

# 2000W

Peak



**120**  
N.M



**1S**  
Start



**38**  
MPH



**45°**  
Up Slope

Image 5.5: Diagram of the high-torque stabilized 2000W peak motor, indicating 120 N.M torque, 1-second start, 38 MPH top speed, and 45-degree climbing capability.

## 5.7 Suspension and Tires

Equipped with a dual suspension system and 20-inch x 4-inch fat tires, the RetroVolt Pro provides a comfortable ride across various terrains, reducing bumpiness by 70% and increasing stability by 80%.



Image 5.6: Illustration of the all-terrain 20" x 4" fat tires and dual suspension, highlighting 80% durability and 70% reduction in bumpiness.

## 5.8 Functional Design

The bike features a versatile rear rack that supports loads up to 330 lbs, suitable for cargo or an additional passenger seat.

# Functional Design



Image 5.7: Details of the functional design, including the 330 lbs maximum load capacity, passenger seating option, cargo carrying capability, and front seat extension.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Jasion RetroVolt Pro.

- **Cleaning:** Clean the bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Tires:** Check tire pressure before each ride. Inspect tires for wear and damage.
- **Brakes:** Regularly check brake pads for wear and ensure brake levers provide firm and responsive stopping power. Adjust or replace as necessary.
- **Chain:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent wear.
- **Battery Care:** Store the battery in a cool, dry place. If storing for extended periods, charge it to 50-70% and recharge every 1-2 months.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases for tightness.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, please contact customer support.

| Problem                | Possible Cause  | Solution   |
|------------------------|---|--|
| Bike does not power on | Battery not charged, battery not properly seated, power button not pressed correctly. | Ensure battery is fully charged and securely installed. Press and hold the power button firmly.                                  |
| Motor not assisting    | PAS level too low, throttle not engaged, brake levers engaged, motor error.           | Increase PAS level. Ensure throttle is fully engaged. Check if brake levers are fully released. Consult display for error codes. |
| Brakes feel weak       | Worn brake pads, air in hydraulic line, misaligned calipers.                          | Inspect and replace brake pads if worn. Seek professional service for hydraulic system bleeding or caliper alignment.            |
| Reduced battery range  | Riding in high-assist modes, low tire pressure, heavy loads, cold weather.            | Ride in lower PAS modes. Maintain correct tire pressure. Reduce load. Battery performance can be affected by cold temperatures.  |

## 8. SPECIFICATIONS

| Feature            | Detail  |
|--------------------|---|
| Model Name         | Jasion RetroVolt Pro                            |
| Bike Type          | Electric Bike                                   |
| Motor              | 2000W Peak                                      |
| Top Speed          | 38 MPH  |
| Battery            | 52V 20Ah (1040WH), Removable                    |
| Max Range          | Up to 90 miles (PAS 1 mode)                     |
| Brakes             | Dual Hydraulic Disc Brakes                      |
| Tires              | 20" x 4" Fat Tires                              |
| Suspension         | Dual Suspension                                 |
| Frame Material     | High Carbon Steel                               |
| Number of Speeds   | 7   |
| Load Capacity      | 330 LBS (150 kg)                                |
| Bicycle Weight     | 37 KG   |
| Rider Height Range | 5'3" - 6'2"                                     |
| Special Features   | Digital Display, Durable, Headlight, Cargo Rack |
| Waterproof Rating  | IP65 (Battery)                                  |

## 9. WARRANTY AND SUPPORT

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### 9.1 Warranty Information

The Jasion RetroVolt Pro Electric Bike comes with a 12-month warranty. Please refer to the warranty card included with your purchase or the official Jasion website for full terms and conditions.

### 9.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact Jasion customer support:

- **Phone:** 1 (888) 825-6366 (9am-6pm, Mon-Fri. EST)
- **Email:** [support@jasionbike.com](mailto:support@jasionbike.com)
- **Website:** Visit the official Jasion website for FAQs and additional resources.



Image 9.1: Customer service details including 12-month warranty, phone number, and email support information.

