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› VOLTCOGUE Electric ebike VV20 Instruction Manual

VOLTCOGUE VV20

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Model: VV20

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1. INTRODUCTION

Thank you for choosing the VOLTCOGUE Electric ebike Model VV20. This manual provides essential information for the safe assembly, operation, and maintenance of your ebike. Please read it thoroughly before your first ride and keep it for future reference.

The VOLTCOGUE VV20 is a full-suspension electric bicycle designed for various terrains, featuring a powerful 750W motor (1500W peak), a 48V 20Ah (960Wh) removable battery, and 20-inch all-terrain fat tires. It offers a top speed of 31 MPH and a range of 40-70 miles per charge.

2. SETUP AND ASSEMBLY

Your VOLTCOGUE VV20 ebike comes 90% pre-assembled. Follow these steps for final assembly and initial setup.

2.1 Unboxing and Parts Identification

Carefully remove the ebike and all components from the packaging. Verify that all included components are present: backseat, battery, charger, user manual, tool kit, and lock.

Video: Unboxing and initial assembly steps for an electric dirt bike. This video demonstrates cutting packing straps, removing protective materials, and identifying accessories and tools.

2.2 Handlebar Installation

Attach the handlebars to the stem using the provided tools. Ensure they are centered and tightened securely.

2.3 Front Wheel Installation

Install the front wheel, ensuring the brake rotor is correctly aligned with the caliper. Insert the skewer into the hub, place the springs, hand-tighten the adjusting nut, and close the quick-release lever. Secure the front fender.

2.4 Headlight Installation

Mount the front headlight to the designated bracket on the front fork. Connect the headlight cable securely.



Image: Close-up of the ebike handlebars showing the LCD display, start button, speed controls, horn, turn signal control, headlight switch, phone holder, front brake, throttle, and derailleur shifter.

2.5 Pedal Installation

Identify the 'L' (left) and 'R' (right) markings on the pedals and crank arms. Thread the pedals into their respective crank arms and tighten them firmly with a wrench.

2.6 Tire Inflation

Inflate both tires to the recommended pressure indicated on the tire sidewall. The 20-inch fat tires are designed for various conditions.

2.7 Battery Installation and Initial Charging

Insert the 48V 20Ah removable battery into its compartment and lock it with the key. Connect the charger to the ebike's charging port and then to a power outlet. The charging time is approximately 6 hours. Ensure the battery is fully charged before your first ride.



Image: Illustration of the 960 Wh large capacity battery, highlighting its 40-70 miles long range, 48V 20Ah capacity, and 6-8 hours fast charge time.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

To power on the ebike, turn the key in the battery lock to the 'ON' position and then press the power button on the handlebar display. To power off, reverse the process.

3.2 Display Functions

The large smart LCD display shows all parameters and functions, including mileage, current speed, power remaining, startup mode, cruise status, and riding mode.



Image: Detailed view of the ebike's smart LCD display, illustrating various metrics and modes for rider information.

3.3 Speed Modes and Pedal Assist

The ebike features 5 speed levels, with speeds ranging from 6 MPH to 31 MPH. The speed range of each gear can be customized via an app. Utilize the 7-speed gears and famous brand derailleur for smooth speed switching.

3.4 Smart Cruise Control

The cruise control function activates after riding at a steady speed for 8 seconds. This allows for comfortable and effortless riding. Any acceleration or braking operation will deactivate this function.

3.5 Lights and Horn

The ebike is equipped with bright LED headlights for enhanced visibility and turn signals for safer cycling. A horn is also integrated for alerting others.



Image: Close-up of the large LED headlights, emphasizing their brightness and the inclusion of turn signals for improved safety.

3.6 Riding Modes

The VOLTVOGUE VV20 supports multiple riding modes: Bicycle Mode (pedal-only), Pedal Assist (PAS), and Pure Electric (throttle assist).



Image: The ebike is shown in different environments, illustrating its multi-terrain capability on city roads, mountain roads, sandy roads, and snow roads.

4. MAINTENANCE

4.1 General Care

Regularly inspect your ebike for any loose parts, worn tires, or damaged components. Keep the ebike clean and dry. Lubricate the chain periodically.

4.2 Battery Care

To prolong battery life, avoid fully discharging the battery. Charge it regularly, even if not in use for extended periods. Store the battery in a cool, dry place. The battery is removable for convenient indoor or outdoor charging.

4.3 Brake System

Periodically check the dual disc brakes for proper function and wear. Adjust as necessary to ensure optimal stopping power.

4.4 Suspension System

The ebike features advanced full suspension with four shock absorbers (front and rear). Regularly inspect the suspension components for any damage or leaks. This system effectively filters vibrations for a comfortable ride across various road conditions.



Image: Illustration highlighting the four shock absorbers on the ebike, located at both the front and rear for enhanced comfort and stability.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your VOLTVOGUE VV20 ebike.

5.1 Power Issues

- **Ebike not turning on:** Ensure the battery is properly installed and locked, and fully charged. Check the power button on the display and the battery's 'ON' switch.
- **Motor not engaging:** Verify that the pedal assist level is set correctly and the throttle is engaged. Check all cable connections for looseness.

5.2 Braking Issues

- **Brakes feel weak:** Inspect brake pads for wear and replace if necessary. Check brake cables for proper tension and adjustment.
- **Squealing brakes:** Clean brake rotors and pads. Ensure proper alignment of the brake caliper.

5.3 Tire Issues

- **Flat tire:** Inspect the tire for punctures and repair or replace the inner tube. Ensure proper tire pressure is maintained.

5.4 Assembly Difficulties

If you encounter difficulties during assembly, refer to the assembly video or contact customer support. Ensure all bolts and connections are tightened according to the instructions.

6. SPECIFICATIONS



Image: Visual representation of the ebike's key dimensions, including overall length, seat height, and handlebar height.

Feature	Detail
Bike Type	Electric Bike
Brand	VOLTVOGUE
Model Name	VV20

Motor	750W (Peak 1500W) Brushless Motor
Top Speed	31 MPH (50 KM/H)
Battery	48V 20Ah (960Wh) Removable Lithium Battery
Range	40-70 Miles per charge
Charging Time	Approx. 6-8 Hours
Wheel Size	20 Inches
Tires	20-Inch All-Terrain Fat Tires (Wheel Width: 3.99 Inches)
Suspension Type	Dual (Four shock absorbers front and rear)
Brake Style	Dual Disc Brake
Number of Speeds	7-speed gears (Shimano Derailleur)
Frame Material	Stainless Steel
Item Weight	88 Pounds
Maximum Weight Recommendation	330 Pounds
Special Features	Back Seat, Dual Suspension, Headlight, Multi-Speed, Smart Cruise Control
Included Components	Backseat, Battery, Charger, User Manual, Tool Kit, Lock

7. WARRANTY & SUPPORT

The VOLTVOGUE VV20 ebike comes with a 1-year guarantee on the electric motor, battery, and charger. For any questions or support regarding your 20-inch fat tire electric bike, please feel free to contact us.