

## VOLTVOGUE VV20-16

# VOLTVOGUE VV20-16 Electric Fat Tire E-Bike User Manual

Model: VV20-16

Brand: VOLTVOGUE

## 1. INTRODUCTION

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Thank you for choosing the VOLTVOGUE VV20-16 Electric Fat Tire E-Bike. This manual provides essential information for the safe assembly, operation, and maintenance of your new e-bike. Please read this manual thoroughly before your first ride and keep it for future reference.



Figure 1: The VOLTVOGUE VV20-16 Electric Fat Tire E-Bike, featuring its robust frame and fat tires.

## 2. SAFETY INFORMATION

Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Familiarize yourself with local e-bike regulations and traffic laws. Perform a pre-ride inspection before each use.

### 2.1 General Safety Guidelines

- Always wear a certified helmet.
- Ensure all components are securely fastened before riding.
- Do not ride under the influence of alcohol or drugs.
- Be aware of your surroundings and traffic.
- Maintain proper tire pressure as specified in the specifications section.

### 2.2 Battery Safety

- Use only the provided charger.
- Do not expose the battery to extreme temperatures or direct sunlight.

- Avoid puncturing or damaging the battery pack.
- Keep the battery away from children and pets.

### 3. PACKAGE CONTENTS

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Upon unboxing, verify that all items listed below are present:

- VOLTVOGUE VV20-16 E-Bike (partially assembled)
- Removable Battery
- Battery Charger
- User Manual (this document)
- Tool Kit
- Bike Lock
- Backseat (optional installation)

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Video 1: Overview of the Fat Tire Electric Bike, including unboxing and key features. This video is provided by the seller, Miaojinebike.

### 4. SETUP AND ASSEMBLY

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Your VOLTVOGUE VV20-16 E-Bike comes partially assembled. Follow these steps to complete the assembly:

1. **Install the Handlebar:** Secure the handlebar to the stem using the provided tools. Ensure it is centered and tightened properly.
2. **Install the Headlight:** Attach the headlight to the front fork and connect the wiring.
3. **Install the Front Wheel:** Carefully align the front wheel with the fork and secure it using the quick-release skewer or axle nuts. Ensure the brake rotor is correctly positioned within the caliper.
4. **Install the Seat Cushion:** Insert the seat post into the frame and adjust the height to your preference. Tighten the quick-release clamp.
5. **Install the Pedals:** Identify the left (L) and right (R) pedals. Thread the 'R' pedal clockwise into the right crank arm and the 'L' pedal counter-clockwise into the left crank arm. Tighten securely with a wrench.
6. **Attach the Backseat (Optional):** If desired, attach the backseat to the rear rack using the provided hardware.

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Video 2: Detailed installation guide for the ZNH Fat Tire Electric Mountain Bike, demonstrating handlebar, headlight, front wheel, seat, and pedal assembly. This video is provided by the seller, Miaojinebike.

### 5. OPERATING INSTRUCTIONS

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#### 5.1 Powering On/Off

To power on the e-bike, ensure the battery is securely installed and turned on (if it has a separate switch). Then, press and hold the 'M' (Mode) button on the handlebar display until the screen illuminates. To power off, press and hold the 'M' button again.

# Color LCD Display

Displays information such as power source, speed, mileage, operating mode, start mode, etc.



Figure 2: The color LCD display shows speed, mileage, battery level, and operating mode.

## 5.2 Speed Modes and Pedal Assist

The e-bike features multiple speed modes and pedal assist levels. Use the '+' and '-' buttons on the display to cycle through different assist levels (0-5). Level 0 provides no electric assistance, while Level 5 provides maximum assistance. The display will show your current speed, trip mileage, and battery status.



Figure 3: The e-bike supports multiple driving modes: Bicycle Mode (pedal only), Pedal Assist (PAS), and Pure Electric (throttle only).

### 5.3 Throttle Operation

For pure electric power, use the thumb throttle located on the handlebar. Gently press the throttle to engage the motor. Release the throttle to reduce speed or stop. Always be mindful of your speed and surroundings when using the throttle.

### 5.4 Shifting Gears

The e-bike is equipped with a 7-speed Shimano gear system. Use the gear shifter on the right handlebar to change gears, allowing you to adapt to various terrains and riding conditions. Shift to lower gears for climbing hills and higher gears for flat terrain or downhill riding.

### 5.5 Braking

The e-bike features dual disc brakes for reliable stopping power. Apply both front and rear brakes simultaneously for optimal control and shorter stopping distances. Avoid sudden, hard braking, especially at high speeds, to prevent skidding.



Figure 4: Key safety features include bright LED headlights, responsive brake lights, and reliable disc brakes for enhanced control.

## 5.6 Lights and Horn

Activate the LED headlight for improved visibility during low-light conditions or night riding. The e-bike also includes turn signals and a horn for communication with other road users. Use these features to enhance your safety and awareness.



Figure 5: Large LED headlights provide a bright and wide field of vision, complemented by turn signals for safer cycling.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your e-bike.

### 6.1 Cleaning

Clean your e-bike regularly with a damp cloth and mild soap. Avoid high-pressure washing directly on electrical components.

### 6.2 Tire Care

Check tire pressure before each ride. The recommended pressure is typically indicated on the tire sidewall. Inspect tires for wear, punctures, or damage.

# 16"x4.0" FAT TIRE Applicable Roads



Figure 6: The 16"x4.0" fat tires are designed for various terrains, including city roads, mountain trails, sandy paths, and snow.

## 6.3 Brake Inspection

Regularly inspect brake pads and rotors for wear. Ensure brake levers are responsive and cables are not frayed. Adjust or replace components as needed.

## 6.4 Chain Lubrication

Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust. Apply a suitable bicycle chain lubricant periodically.

## 6.5 Battery Charging and Storage

Charge the battery fully after each ride. For long-term storage, charge the battery to 50-70% and store it in a cool, dry place. Avoid completely draining the battery.

# 748Wh Removable lithium-ion battery



Figure 7: The e-bike features a 748Wh removable lithium-ion battery for convenient charging and extended range.

## Large LED headlights

Provides a bright and wide field of vision



Turn signals for safer cycling



Figure 8: The 48V 15.6Ah removable lithium battery is IPX4 waterproof and includes a Battery Management System (BMS) for safety and performance, offering 2000 cycle charges and charge protection.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
E-bike does not power on	Battery not charged or not properly installed.	Ensure battery is fully charged and securely locked into place. Check battery switch.
Motor not assisting	Pedal assist level is 0 or motor cable is disconnected.	Increase pedal assist level using '+' button. Check motor cable connections.
Brakes feel weak	Worn brake pads or loose brake cables.	Inspect brake pads for wear and replace if necessary. Adjust brake cable tension.
Unusual noises during ride	Loose components, dry chain, or tire rubbing.	Check all bolts and fasteners. Lubricate chain. Inspect tire clearance.

## 8. SPECIFICATIONS

- **Bike Type:** Electric Bike
- **Age Range:** Adult
- **Brand:** VOLTVOGUE
- **Model Number:** VV20-16
- **Motor:** Peak 1500W Brushless Motor
- **Top Speed:** 25/31 MPH (depending on mode/conditions)
- **Battery:** 48V 748Wh Removable Lithium Battery (IPX4 Waterproof, BMS Intelligent System, 2000 Cycle Charging, Charge Protection)
- **Range:** 40-70 Miles (depending on assist level and terrain)
- **Tires:** 16-Inch All-Terrain Fat Tires
- **Suspension Type:** Dual Full Suspension (Multi Damping System)
- **Brake Style:** Disc Brakes (Front and Rear)
- **Number of Speeds:** 7 (Shimano)
- **Frame Material:** Stainless Steel
- **Color:** Black
- **Special Features:** LED Headlight, Brake Lights, Turn Signals, Horn, Color LCD Display
- **Recommended Height:** 4'11" - 6'3"
- **Maximum Load:** 330 lbs



Figure 9: The e-bike is powered by an 800W powerful brushless motor with a peak output of 1500W, offering a max speed of 25MPH, 30-degree climbing ability, and a 330 lbs max load capacity.

# MULTI DAMPING SYSTEM



Figure 10: The multi-damping system provides full suspension for a comfortable ride across varied terrains.



Figure 11: E-bike dimensions are 59.45 inches long, 28.54 inches wide (handlebar), and 43.31 inches high. Recommended for riders 4'11" to 6'3" and up to 330 lbs.

## 9. WARRANTY AND SUPPORT

The VOLTVOGUE VV20-16 E-Bike comes with a 2-year warranty. For warranty claims, technical support, or any questions regarding your e-bike, please contact VOLTVOGUE customer service through your retailer or the official brand website.