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› WINDHORSE V8 PRO Electric Bike User Manual

## WINDHORSE V8 Pro

# WINDHORSE V8 PRO Electric Bike User Manual

Model: V8 Pro

## 1. INTRODUCTION

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Welcome to the WINDHORSE V8 PRO Electric Bike user manual. This guide provides essential information for the safe operation, maintenance, and optimal performance of your new electric bicycle. The V8 PRO is designed for both urban commuting and off-road adventures, featuring a powerful 750W gear hub motor, a 48V 16.6AH battery, 20-inch fat tires, dual suspension, and a Shimano 7-speed gear system. Please read this manual thoroughly before your first ride to ensure a safe and enjoyable experience.



Figure 1.1: WINDHORSE V8 PRO Electric Bike with phone holder, helmet, and reflective vest.

## 2. SAFETY INFORMATION

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Your safety is paramount. Always adhere to the following guidelines:

- **Wear a Helmet:** Always wear a certified bicycle helmet that fits properly.
- **Check Brakes:** Before each ride, ensure both front and rear brakes are functioning correctly.
- **Tire Pressure:** Maintain correct tire pressure as indicated on the tire sidewall.
- **Local Laws:** Familiarize yourself with and obey all local traffic laws and regulations regarding electric bicycles.
- **Visibility:** Use the integrated headlight and wear reflective clothing, especially when riding at night or in low-light conditions.
- **Weather Conditions:** Exercise caution when riding in wet or slippery conditions. Braking distance increases

significantly.

- **Weight Limit:** Do not exceed the maximum weight capacity specified for the bike.
- **Pre-Ride Inspection:** Perform a quick check of all bolts, quick releases, and components before every ride.

### 3. PRODUCT COMPONENTS OVERVIEW

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The WINDHORSE V8 PRO is equipped with high-quality components designed for durability and performance.

- **750W Gear Hub Motor:** Provides powerful assistance for various terrains.
- **48V 16.6AH Lithium Battery:** Removable for convenient charging and extended range.
- **20" x 4" Fat Tires:** Offers enhanced grip and stability on diverse surfaces.
- **Dual Suspension System:** Front fork and rear shock absorbers for a comfortable ride.
- **Shimano 7-Speed Gear System:** Allows for versatile pedaling and speed control.
- **Dual Disc Brakes:** Provides reliable stopping power in all conditions.
- **LCD Display Panel:** Shows speed, battery level, distance, and power mode.
- **Carbon Alloy Frame:** Lightweight yet robust construction.



Figure 3.1: The V8 PRO Electric Bike showcasing its integrated LCD display.

## 4. SETUP AND FIRST USE

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Follow these steps to prepare your WINDHORSE V8 PRO for its first ride:

1. **Unboxing:** Carefully remove all components from the packaging. Retain packaging for future transport or storage.
2. **Assembly:** The V8 PRO comes mostly pre-assembled. Attach the front wheel, handlebars, pedals, and seat post as per the included assembly guide. Ensure all bolts are tightened securely.
3. **Battery Charging:** Fully charge the battery before first use. The battery can be charged on or off the bike. Connect the charger to the battery port and then to a power outlet. The indicator light on the charger will change when fully charged.
4. **Tire Inflation:** Inflate tires to the recommended pressure (typically 20-30 PSI for fat tires), indicated on the tire

sidewall.

5. **Brake Adjustment:** Ensure brake levers are firm and engage smoothly. Adjust cable tension if necessary.
6. **Seat and Handlebar Adjustment:** Adjust the seat height and handlebar angle for a comfortable and ergonomic riding position.

**48V 15.6AH**  
**Large Capacity**

UL LISTED

V8 PRO  
WINDHORSE

40 MILES  
Electric Mode

65 MILES  
Pedal-assist Mode

7-8 HOURS  
Fast Charge

IPX5  
Waterproof

Figure 4.1: The 48V 16.6AH lithium battery, highlighting its capacity and charging convenience.

## 5. OPERATING INSTRUCTIONS

Understanding how to operate your V8 PRO will enhance your riding experience.

### 5.1 Powering On/Off and LCD Display

To power on the bike, press and hold the power button on the LCD display. The display will illuminate, showing current speed, battery level, distance, and pedal-assist level. To power off, press and hold the power button again.

# UPGRADED LCD DISPLAY

Any riding data, such as speed, riding time, mileage, and remaining power, can be displayed for your grasp



Figure 5.1: The upgraded LCD display provides real-time riding data.

## 5.2 Pedal-Assist and Throttle Modes

- **Pedal-Assist (PAS):** The V8 PRO offers multiple levels of pedal assistance. Use the '+' and '-' buttons on the display to cycle through assistance levels (typically 1-5). Higher levels provide more motor assistance.
- **Throttle:** For full electric power without pedaling, engage the thumb throttle. The throttle provides instant acceleration up to the maximum speed allowed by the current pedal-assist level or full speed if no pedal-assist is selected.

## 5.3 Shimano 7-Speed Gear System

The Shimano 7-speed derailleur allows you to adjust your pedaling effort to match terrain and desired speed. Use the shifter on the handlebar to change gears. Shift to lower gears (1-3) for easier pedaling uphill or starting, and higher gears (5-7) for faster speeds on flat terrain.

# SHIMANO 7-SPEED

## Professional Ride



Figure 5.2: The Shimano 7-speed system provides versatile gearing for various riding conditions.

### 5.4 Braking

The V8 PRO is equipped with dual disc brakes for superior stopping power. Apply both front and rear brakes simultaneously for effective and controlled stopping. Avoid sudden, hard braking, especially with the front brake, to prevent skidding.

# DUAL DISC BRAKES

Enhancing Riders with a Safer, More Stable Riding Experience



**160**mm  
Dual Disc Brakes



*Figure 5.3: Dual disc brakes enhance rider safety and control.*

## 5.5 All-Terrain Capability

The 20-inch fat tires and dual suspension system allow the V8 PRO to handle various terrains, from city roads to snow and sand. Adjust your speed and riding style according to the surface conditions.

# 20" X 4" FAT TIRE

## All Terrain Explosion-proof



Figure 5.4: The 20" x 4" fat tires are designed for all-terrain performance.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your electric bike.

- **Battery Care:** Store the battery in a cool, dry place. Charge it regularly, even if not in use, to maintain battery health. Avoid fully discharging the battery.
- **Cleaning:** Clean the bike regularly with a damp cloth. Avoid using high-pressure washers directly on electrical components.
- **Chain Lubrication:** Lubricate the chain every few rides, especially after riding in wet or dusty conditions.
- **Brake Inspection:** Check brake pads for wear and replace them when necessary. Ensure brake cables are not frayed and are properly tensioned.
- **Tire Inspection:** Regularly check tires for punctures, cuts, or excessive wear. Maintain correct tire pressure.

- **Bolt Check:** Periodically check and tighten all bolts and fasteners, especially on critical components like handlebars, wheels, and seat post.
- **Suspension:** Inspect the suspension components for any damage or leaks. Keep them clean.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your WINDHORSE V8 PRO.

| Problem                     | Possible Cause  | Solution  |
|-----------------------------|---|---|
| Bike does not power on      | Battery not charged; Battery not properly seated; Loose electrical connection             | Charge battery; Ensure battery is fully inserted; Check all visible connections.                      |
| Motor not assisting         | Pedal-assist level too low; Brake lever engaged; Motor connection loose                   | Increase PAS level; Release brake levers; Check motor cable connection.                               |
| Brakes squealing or weak    | Brake pads worn; Disc rotor dirty; Cable tension incorrect                                | Inspect/replace pads; Clean rotor with disc brake cleaner; Adjust cable tension.                      |
| Gears not shifting smoothly | Derailleur misaligned; Cable stretched; Chain dirty/dry                                   | Adjust derailleur; Adjust shifter cable tension; Clean and lubricate chain.                           |
| Reduced range               | Battery not fully charged; Riding in high assist mode; Low tire pressure; Headwinds/hills | Fully charge battery; Use lower assist modes; Inflate tires to correct pressure; Adjust riding style. |

## 8. SPECIFICATIONS

Key technical specifications for the WINDHORSE V8 PRO Electric Bike:

| Feature   | Detail                             |
|-----------|------------------------------------|
| Model     | V8 Pro                             |
| Motor     | 750W Gear Hub Motor (1500W Peak)   |
| Battery   | 48V 16.6AH Lithium Ion (removable) |
| Max Speed | Up to 50 KM/H (31 MPH)             |

| Feature             | Detail   |
|---------------------|--|
| Max Range           | Up to 45 KM (Electric Mode), 65 KM (Pedal-assist Mode) |
| Tires               | 20" x 4" All-Terrain Fat Tires                         |
| Suspension          | Dual Suspension (Front & Rear)                         |
| Gears               | Shimano 7-Speed  |
| Brakes              | Dual Disc Brakes (160mm)                               |
| Frame Material      | Carbon Alloy   |
| Display             | LCD Digital Display                                    |
| Charging Time       | 7-8 Hours (Fast Charge)                                |
| Waterproof Rating   | IPX5   |
| Included Components | Pump, Reflectors, Tool Kit                             |

# 1500W Peak Powerful Motor



Figure 8.1: The V8 PRO features a powerful 1500W peak motor for high performance.

# DUAL SHOCK ABSORPTION

Better Shock Absorption, More Comfortable Ride

 **100mm**  
Travel



Figure 8.2: Advanced dual suspension system provides 100mm travel for a comfortable ride.

## 9. WARRANTY AND SUPPORT

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For warranty information, please refer to the warranty card included with your purchase or contact WINDHORSE official store directly. Keep your proof of purchase for any warranty claims.

### Customer Support:

For technical assistance, spare parts, or any inquiries not covered in this manual, please contact WINDHORSE customer support through the official channels provided at the time of purchase or on the WINDHORSE official store website.

