

WINDHORSE F2

WINDHORSE Electric Bike F2 User Manual

MODEL: F2

Brand: WINDHORSE

Introduction	Safety Information	Setup & Assembly	Components Overview	Operating Instructions
	Maintenance	Troubleshooting	Specifications	Warranty & Support

1. INTRODUCTION

This manual provides essential information for the safe operation, assembly, and maintenance of your WINDHORSE F2 Electric Bike. Please read this manual thoroughly before your first ride and keep it for future reference. The WINDHORSE F2 is a 26-inch commuter e-bike designed for adults, featuring a 350W motor with a 750W peak, a 468WH removable battery offering up to 50 miles of range, and a top speed of 28 MPH. It includes a smart LED display, 7-speed gearing, front suspension, and dual disc brakes for a balanced riding experience.



Figure 1: WINDHORSE F2 Electric Bike (Charcoal)

2. SAFETY INFORMATION

Your safety is paramount. Always adhere to local traffic laws and regulations when operating the e-bike. Failure to follow safety guidelines may result in serious injury or property damage.

2.1 Pre-Ride Checklist

- **Brakes:** Ensure both front and rear brakes are functioning correctly.
- **Tires:** Check tire pressure before each ride. Refer to the tire sidewall for recommended PSI.
- **Battery:** Verify the battery is securely locked and sufficiently charged for your planned ride.
- **Lights & Reflectors:** Confirm headlights, taillights, and reflectors are clean and operational, especially for night riding.
- **Helmet:** Always wear a certified helmet.
- **Loose Parts:** Inspect for any loose bolts, nuts, or components.

2.2 Riding Safely

- Obey all traffic laws, signals, and signs.
- Use appropriate hand signals for turns and stops.
- Be aware of your surroundings and other road users.
- Avoid riding in adverse weather conditions (heavy rain, snow, ice).
- Do not operate the e-bike under the influence of alcohol or drugs.

2.3 Battery Safety

- Use only the charger provided by WINDHORSE.
- Do not expose the battery to extreme temperatures or direct sunlight for extended periods.
- Avoid puncturing, dropping, or damaging the battery.
- Keep the battery away from children and pets.

3. SETUP & ASSEMBLY

The WINDHORSE F2 Electric Bike arrives 85% pre-assembled. Follow these steps to complete the assembly process. For a visual guide, please refer to the assembly video below.

3.1 Assembly Steps

1. **Unpacking:** Carefully remove the bike and all components from the packaging. Retain packaging for potential future transport or returns.
2. **Handlebar Installation:** Loosen the screws on the front fork sleeve, remove the stem, insert it into the frame, and then reattach the handlebars. Tighten all screws to secure the stem and prevent shaking.
3. **Kickstand Attachment:** Loosen the two screws on the kickstand, attach it to the bike frame, and tighten the screws to fix it in place.
4. **Front Wheel Installation:** Before installing the front wheel, open the brake lever. Line up the fork with the axle at the center of the wheel. Install the safety hook, gasket, and nut in turn, then secure the quick-release lever.
5. **Front Fender & Headlight:** Install the front fender by removing the nut, washer, and bolt from the fork. Reattach the lower fender screws. Secure the headlight to the fender mount.
6. **Rear Rack & Taillight:** Loosen the four screws in the seat stay. Align the rear rack with the seat stay and tighten the screws. Assemble the taillight into the rear rack and screw the nuts. Use zip ties to secure any loose cables.
7. **Seat Post Insertion:** Insert the seat post into the frame and adjust to a comfortable height. Secure the quick-release clamp.
8. **Pedal Installation:** Install the pedals. Ensure the pedal marked "R" is on the right side (clockwise to tighten) and "L" on the left side (counter-clockwise to tighten).
9. **Cable Connections:** Locate the two sides of the same color headlight connector. Carefully align the internal pins and notches, and external arrows, then push firmly to connect. Repeat for any other disconnected cables.
10. **Battery Insertion:** Insert the battery into its compartment in the frame. Ensure it clicks securely into place.

3.2 Assembly Video Guide

Your browser does not support the video tag.

Video 1: Detailed assembly instructions for the WINDHORSE F2 Electric Bike.

4. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your WINDHORSE F2 Electric Bike:

- **Motor:** 350W motor with 750W peak power for efficient assistance.
- **Battery:** 36V 13Ah (468WH) removable, UL-certified, IP65 waterproof battery with anti-theft lock.
- **Display:** Smart LCD display to track speed, battery life, and Pedal Assist System (PAS) level.
- **Gears:** 7-speed Shimano gears for versatile riding conditions.
- **Brakes:** Dual disc brakes for reliable stopping power.
- **Suspension:** Front suspension fork for a smoother ride over varied terrain.
- **Tires:** 26-inch all-terrain tires for comfort and traction.
- **Lighting:** LED headlight, rear light, and reflectors for enhanced visibility.
- **Rear Rack:** Sturdy rear rack for carrying cargo up to 330 lbs.

4.1 Key Features Visuals



Figure 2: 750W Peak Brushless Motor

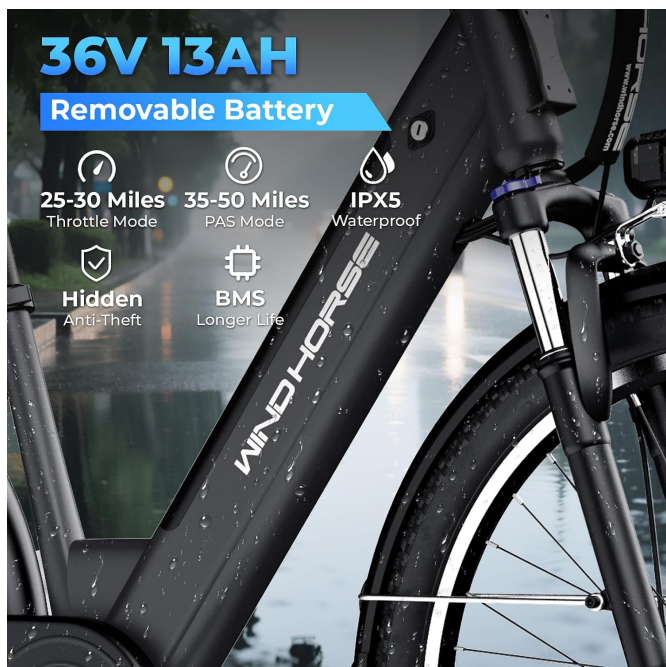


Figure 3: 36V 13Ah Removable Battery



Figure 4: Smart LCD Display



Figure 5: Front Fork Shock Absorption

4.2 Bicycle Detail Display Video

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Video 2: A detailed visual overview of the WINDHORSE F2 Electric Bike's features and components.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

To power on the e-bike, press and hold the power button on the smart LCD display. To power off, press and hold the same button.

5.2 Riding Modes

The WINDHORSE F2 offers 5 riding modes:

- **Throttle-Only Mode:** Provides power without pedaling, offering a range of 25-30 miles.
- **Pedal-Assist Mode (PAS):** Provides motor assistance while you pedal, offering a range of 35-50 miles. Adjust the assist level using the '+' and '-' buttons on the handlebar.
- **Cruise Control:** Activate by holding a steady speed for 10+ seconds. Braking cancels this mode.
- **Walk-Assist Mode:** Provides low-speed assistance for walking the bike.
- **Manual Pedaling:** Ride the bike like a traditional bicycle without any motor assistance.

5 Riding Modes



Figure 6: Overview of the 5 Riding Modes

5.3 Smart LCD Display

The LCD display shows important information such as current speed, battery level, and PAS level. Use the control buttons near the display to cycle through information or adjust settings.

5.4 Gear Shifting

The 7-speed Shimano gears allow you to adjust your pedaling effort to match terrain and speed. Use the shifter on the handlebar to change gears smoothly. Shift to lower gears for climbing hills and higher gears for flat terrain or downhill riding.

5.5 Braking

The dual disc brakes provide effective stopping power. Apply both front and rear brakes simultaneously for controlled and stable deceleration. Avoid sudden, hard braking, especially with the front brake, to prevent loss of control.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your WINDHORSE F2 Electric Bike.

- **Cleaning:** Clean your e-bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Chain Lubrication:** Lubricate the chain every 100-150 miles or after riding in wet conditions to ensure smooth gear changes and prevent rust.
- **Brake Inspection:** Periodically check brake pads for wear and brake cables for tension. Adjust or replace as needed.
- **Tire Care:** Maintain correct tire pressure. Inspect tires for cuts, punctures, or excessive wear.
- **Fasteners:** Regularly check all bolts, nuts, and quick-release levers to ensure they are securely tightened.
- **Battery Storage:** If storing the bike for an extended period, charge the battery to 50-70% and store it in a cool, dry place. Recharge every 1-2 months to prevent deep discharge.

7. TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
E-bike does not power on	Battery not charged or not properly inserted; loose electrical connection.	Charge battery; ensure battery is fully inserted and locked; check all cable connections.
Motor not providing assistance	PAS level set to 0; brake levers engaged; motor cable disconnected.	Increase PAS level; release brake levers; check motor cable connection.
Brakes feel spongy or ineffective	Worn brake pads; loose brake cable; air in hydraulic system (if applicable).	Inspect and replace brake pads; adjust brake cable tension; consult a bike mechanic for hydraulic systems.
Unusual noises during riding	Loose components; dry chain; misaligned gears.	Check all fasteners; lubricate chain; adjust derailleur or consult a mechanic.

8. SPECIFICATIONS

Detailed technical specifications for the WINDHORSE F2 Electric Bike:

Feature	Detail
Bike Type	Electric Bike
Age Range	Adult
Brand	WINDHORSE
Number of Speeds	7

Feature	Detail
Color	Charcoal
Wheel Size	26 Inches
Frame Material	Carbon Steel
Suspension Type	Front
Special Feature	LCD-Display
Included Components	User Manual
Size	Medium
Brake Style	Disc
Specific Uses For Product	Road
Item Weight	51 Pounds
Theme	Commuting Ebike
Style	Urban
Model Name	F2
Power Source	Battery
Wattage	500 watts
Year	2024
Assembly Required	Yes
Manufacturer	Dongguan Wind Horse New Energy Technology Limited
Frame Size	120
Material	Aluminum
Suggested Users	unisex-adult
Date First Available	July 25, 2025

SIZE INFORMATION



5'1"-6'6"

Rider Height



60.63 lbs

E-bike Weight



330 lbs

Max Load

42.13"



28.74"

31.5" - 37.4"

40.55"

66.93"

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question