FREESKY X-6E

FREESKY Swift Horse Pro X-6E Electric Bike User Manual

Model: X-6E

1. Introduction

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your FREESKY Swift Horse Pro X-6E Electric Bike. Please read this manual thoroughly before your first ride to ensure proper usage and to maximize your riding experience. Retain this manual for future reference.



Image 1.1: The FREESKY Swift Horse Pro X-6E Electric Bike, featuring its robust design and integrated electrical system.

2. Safety Information

Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Familiarize yourself with local laws and regulations regarding electric bicycles before operation. This electric bike features a dual-certified safety system: the entire electrical system is UL 2849 certified by TÜV, and the Samsung cell battery pack is UL 2271 certified by TÜV SÜD.

2.1 Speed Unlocking Procedure

The Pedal-Assist System (PAS) mode is speed-limited by default for safety. To unlock the full 38 MPH in PAS mode, long press the "RIGHT" button on the control panel after powering on your e-bike. The throttle-only mode provides a maximum speed of 20 MPH.

3. Package Contents

Upon unpacking, verify that all components are present:

- FREESKY Swift Horse Pro X-6E Electric Bike (85% pre-assembled)
- Battery Charger
- User Manual (this document)
- Tool Kit for assembly
- Fender (if included with accessory kit)
- Rear Rack (if included with accessory kit)
- Riding Kit (phone holder, chain lock, bottle cage, rearview mirror, helmet, protective cover, air pump, cycling glasses, spare headlight, rear seat bag - if included with accessory kit)
- Unlocked Speed Controller (if included with accessory kit)
- Upgrade DNM Air Shock Absorber (if included with accessory kit)

Note: Accessory kits and upgraded shock absorbers may be shipped separately with individual tracking numbers.

4. Setup and Assembly

Your FREESKY Swift Horse Pro X-6E Electric Bike arrives 85% pre-assembled. The included tool kit contains the necessary items for completing the assembly. Follow the detailed instructions provided in the separate assembly guide for specific steps. Key assembly points include:

- **Handlebar Installation:** Secure the handlebars to the stem.
- **Front Wheel Installation:** Utilize the quick-release mechanism for easy setup.
- **Pedal Attachment:** Ensure pedals are correctly threaded and tightened.
- **Seat Post Adjustment:** Adjust the seat height for comfortable riding.
- **Accessory Installation:** Attach fenders, rear rack, and other accessories as desired.

The bike features Quick-Connect plugs for electrical components, reducing installation failures and simplifying maintenance.



Image 4.1: Quick-Connect plugs for electrical components and ergonomically designed curved handlebars for enhanced comfort.

5. Operating Instructions

5.1 Powering On/Off

To power on the bike, press and hold the power button on the control panel. To power off, press and hold the same button.

5.2 Intelligent Colorful Display

The bike is equipped with an HD colorful display, visible in sunlight, providing real-time information such as speed, mileage, battery status, PAS level, and error codes. Use the control buttons next to the display to navigate through settings and modes.



Image 5.1: The intelligent colorful display showing various riding metrics and the NFC unlock feature.

5.3 Riding Modes

The FREESKY Swift Horse Pro X-6E offers five riding modes:

- **Electric Mode:** Full power from the motor, no pedaling required (throttle only, up to 20 MPH).
- **Pedal-Assist System (PAS) Mode:** Motor provides assistance as you pedal. Adjustable levels of assistance. Can be unlocked to 38 MPH (see Section 2.1).
- **Cruise Mode:** Maintains a set speed without continuous throttle or pedaling input.
- **Manual Mode:** Operates as a traditional bicycle, relying solely on pedal power.
- **Walk Mode:** Provides low-speed motor assistance for walking the bike (e.g., uphill).

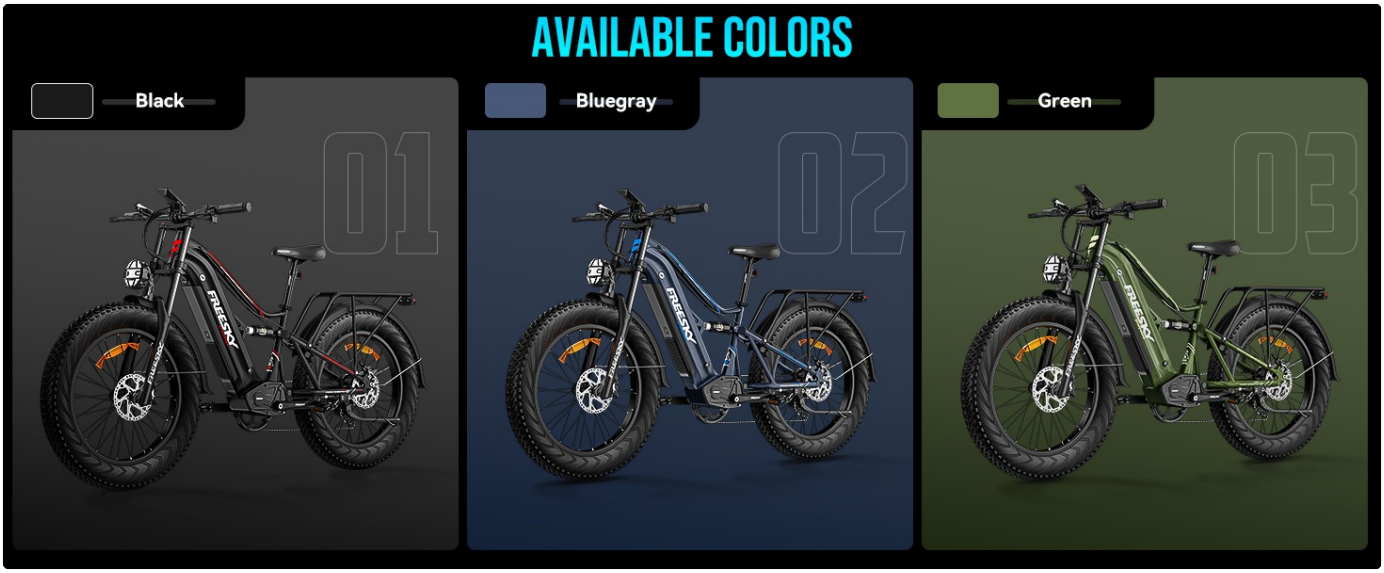


Image 5.2: The 26"x4" CST fat tires are suitable for various terrains, complementing the bike's multiple riding modes.

5.4 Shimano 7-Speed Gearing

The bike features a Shimano 7-speed gearing system. Use the shifter on the handlebar to change gears, allowing you to adapt to different terrains and optimize pedaling efficiency. Gears 1-3 are for relaxed riding, 4-5 for moderate speed, and 6-7 for faster

speeds.



Image 5.3: Detail of the Shimano 7-speed gearing system, designed for smooth gear transitions.

5.5 Braking System

The bike is equipped with dual 4-piston 180mm hydraulic disc brakes for reliable stopping power and enhanced safety. Regularly check brake lever feel and pad wear.

5.6 Lighting System

An integrated lighting system includes an 800-lumen headlight, turn signals, and brake lights, improving visibility and safety, especially during night rides. The system is IP65 water-resistant.

5.7 NFC Unlock

The innovative swipe-to-lock system allows secure activation using a key card or password, providing a keyless start option.

5.8 Charging

The bike features a Type-C charging port for convenient charging of the battery. Always use the provided charger. Ensure the charging port is clean and dry before connecting the charger.

6. Maintenance

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

6.1 Battery Care

The 48V 35Ah Samsung cell battery is designed for durability. To prolong battery life:

- Charge the battery fully before the first use.
- Avoid completely draining the battery.
- Store the bike and battery in a cool, dry place.
- Charge the battery at least once every two months if not in use.



Image 6.1: Internal view of the 48V 35Ah Samsung battery cells, UL2271 certified for safety.

6.2 Tires

Maintain proper tire pressure for the 26"x4" fat tires. Refer to the tire sidewall for recommended pressure ranges. Inspect tires regularly for wear and damage.

6.3 Brakes

Check brake pads for wear and replace them when necessary. Ensure brake levers are responsive and provide adequate stopping power. Adjust brake cables or hydraulic fluid levels as needed.

6.4 Suspension

The full suspension system, including the double crown fork and rear air shock absorber, requires periodic inspection. Keep suspension components clean and lubricated. Check for any leaks or damage to the air shock absorber.



Image 6.2: The full suspension system, featuring a lockable double crown fork and a rear air shock absorber for improved ride comfort.

6.5 General Cleaning

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

7. Troubleshooting

If you encounter issues with your FREESKY Swift Horse Pro X-6E, refer to the following common troubleshooting tips. For more complex problems, contact customer support.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not properly seated; power button issue.	Ensure battery is fully charged and securely installed. Press and hold power button firmly.
Motor not assisting	PAS level set to 0; loose motor cable; brake lever sensor engaged.	Increase PAS level on display. Check motor cable connections. Ensure brake levers are not engaged.
Brakes feel weak	Worn brake pads; air in hydraulic system; misaligned calipers.	Inspect and replace brake pads. Consult a bike mechanic for hydraulic system bleeding or caliper adjustment.
Display shows error code	System malfunction.	Refer to the display's specific error code manual (if provided) or contact customer support with the error code.

8. Specifications

Detailed technical specifications for the FREESKY Swift Horse Pro X-6E Electric Bike:

Feature	Specification
Model Name	Swift Horse Pro
Model Number	X-6E
Motor	BAFANG 3500W Peak (140Nm Torque)
Battery	48V 35Ah Samsung Cells (UL 2271 Certified), 1440 Watt Hours
Max Speed	Up to 38 MPH (PAS, unlocked), 20 MPH (Throttle only)
Range	85-140 Miles (depending on conditions and riding mode)
Tires	CST 26" x 4" Fat Tires
Frame Material	6061 Aluminum
Suspension	Full Suspension (Double Crown Fork, Rear Air Shock Absorber)
Brakes	Dual 4-Piston 180mm Hydraulic Disc Brakes
Gearing	Shimano 7-Speed
Display	HD Colorful LCD Display with NFC Unlock
Lighting	Integrated 800 Lumen Headlight, Turn Signals, Brake Lights
Max Load Capacity	400 lbs
Recommended Rider Height	5'3" to 6'8" (155 cm minimum)

Feature	Specification
Certifications	UL 2849 (Electrical System), UL 2271 (Battery Pack) by TÜV SÜD
Included Components	Charger, Manual, Tool Kit

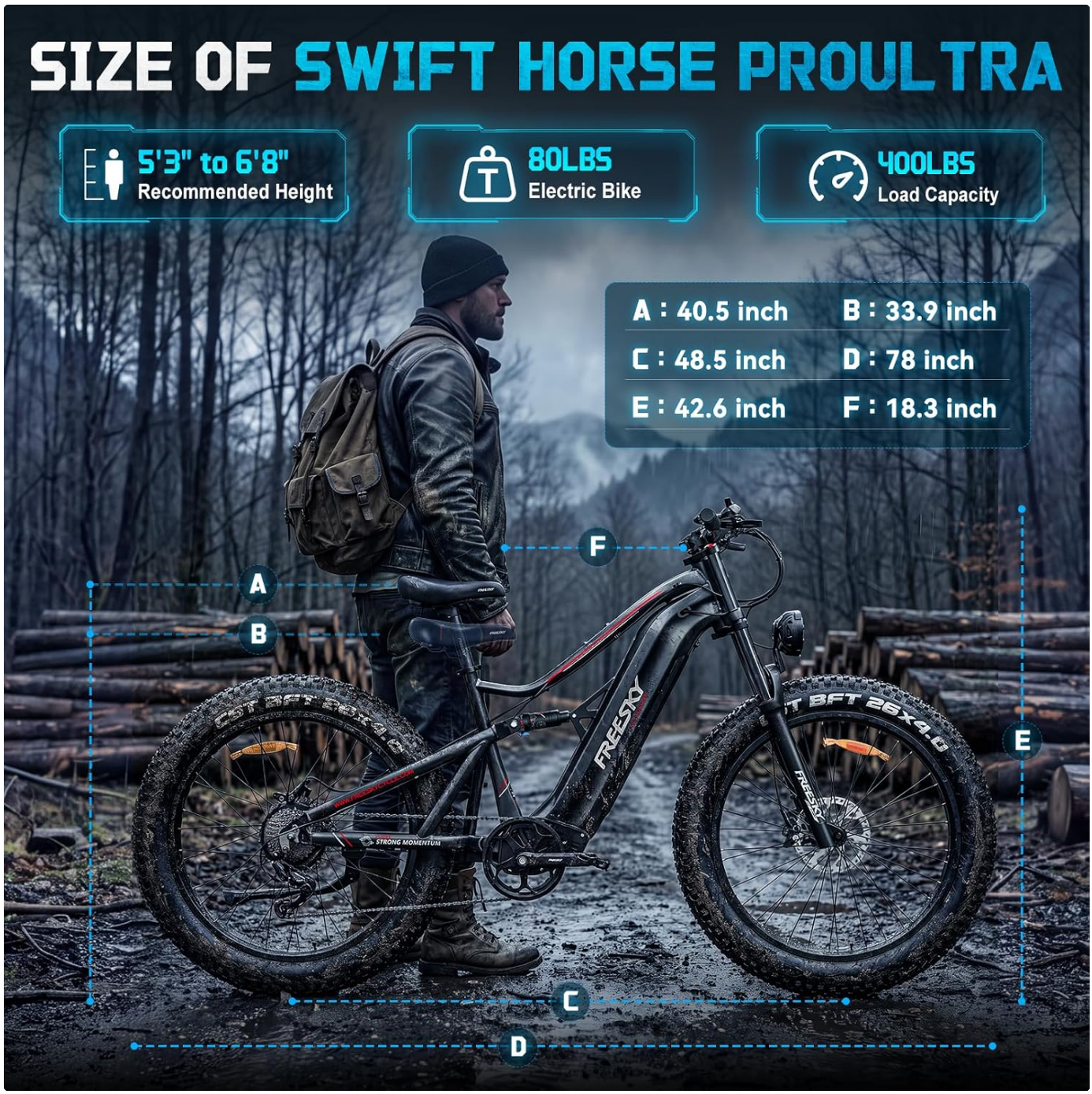


Image 8.1: Detailed size chart for the FREESKY Swift Horse Pro X-6E Electric Bike, including key dimensions.

9. Warranty and Support

FREESKY stands behind the quality of its products. The Swift Horse Pro X-6E Electric Bike is rigorously tested and UL-certified by TÜV SÜD.

9.1 Warranty Coverage

- **24-Month Warranty:** Covers the motor, battery, controller, and frame.

- **12-Month Warranty:** Covers all other parts.

Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and does not cover damage due to misuse, accidents, or normal wear and tear.



Image 9.1: UL2849 certification for the FREESKY Swift Horse Pro X-6E, ensuring electrical system safety.

9.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact FREESKY customer support. Our team provides end-to-end support from pre-sales advice to after-sales service.
Manufacturer Contact Information: Guangzhouyanshankejiyouxiangongsi

Ask a question about this manual

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

you@example.com

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