FREESKY FREESKY

FREESKY Step-Thru Commuter Electric Bike Instruction Manual

Model: FREESKY

Setup Operating Maintenance Troubleshooting Specifications Warranty & Support

Introduction

Welcome to the FREESKY electric bike user manual. This guide provides essential information for the assembly, operation, maintenance, and troubleshooting of your new FREESKY Step-Thru Commuter Electric Bike. Please read this manual thoroughly before your first ride to ensure safe and optimal performance.



Figure 1: FREESKY Step-Thru Commuter Electric Bike (Black Classic model)

1. Setup and Assembly

Your FREESKY electric bike comes partially assembled. Follow these steps carefully to complete the setup.

1.1 Unboxing and Parts Checklist

Carefully remove all components from the packaging. Verify that all parts listed below are present. Refer to the included manual for a detailed parts list.

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Video 1: Unboxing and Parts Overview (0:04 - 0:24 in video)

- Main Bike Frame (partially assembled)
- Front Wheel
- Handlebar Assembly
- Pedals (Left and Right)

- Saddle and Seat Post
- Front Fender and Headlight
- Battery and Charger
- Tool Kit (Hex wrenches, open-end spanners)
- User Manual

1.2 Handlebar Installation and Positioning

Attach the handlebar to the stem and adjust its position for comfortable riding. Use the 4mm hexagonal screw wrench to remove the bolts, position the handlebar, and then tighten the bolts securely.

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Video 2: Handlebar Installation (0:31 - 1:21 in video)

1.3 Front Wheel Installation

Install the front wheel, ensuring the brake rotor aligns correctly with the caliper. First, remove the protective iron bar from the fork using a #13 open-end spanner. Then, remove the protective pad from the brake caliper. Install the quick release lever with the bolt and spring of the front wheel screws. Carefully align the brake rotor into the caliper and insert the quick release skewer through the wheel hub and fork. Tighten the nuts securely using a 15mm wrench.

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Video 3: Front Wheel Installation (1:22 - 2:37 in video)

1.4 Front Lights & Fenders Installation

Attach the front fender and headlight. Secure the fender to the fork using the provided bolts and the 4mm hexagonal screw wrench. Connect the headlight cable to the main wiring harness, ensuring a secure connection.

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Video 4: Front Lights & Fenders Installation (2:38 - 3:39 in video)

1.5 Adjust the Saddle Scale

Adjust the saddle height for comfortable pedaling. Open the seat clamp, adjust the seat post to the desired height (ensure it's within the minimum/maximum insertion marks), and then tighten the bolts and retract the seat clamp firmly.

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Video 5: Saddle Adjustment (3:40 - 3:55 in video)

1.6 Pedal Installation

Install the pedals. Note that the left (L) and right (R) pedals are distinct. The right pedal (R) tightens clockwise, and the left pedal (L) tightens counter-clockwise. Use the 15mm wrench to tighten the pedals securely.

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Video 6: Pedal Installation (3:56 - 4:50 in video)

2. Operating Your FREESKY Ebike

2.1 Powering On/Off and Display

To power on the bike, insert the key and push up the button to remove the battery. Turn on the bottom battery switch and press the top button to confirm that the light is on. Then, hold the power button on the handlebar for 3 seconds to turn on the display. You can also enter code 1212 or use the NFC card to open the display. To power off, long press or short

press the main card on the black card area, or long press the red secondary card until the screen recognizes "01" then short press to turn off the display.

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Video 7: Powering On/Off and Display Operation (0:00 - 1:10 in video)

Before riding, set the gear to 0 at the first time of powering on to prevent accidentally touching the throttle. The HD color LCD shows real-time speed, battery level, and mileage. The built-in NFC system enables one-tap anti-theft locking. A Type-C charging port is available for your phone.

2.2 Riding Modes and Controls

Your FREESKY ebike features 5 riding modes:

- **Electric Mode:** Full throttle, no pedaling required.
- **Pedal-assist Mode:** Motor assists your pedaling. Adjust assistance levels with "+" and "-" buttons.
- **Cruise Mode:** Hold the thumb throttle for about 10 seconds until the cruise sign shows, then release the throttle to enter cruise mode. Press the throttle button again or squeeze the brakes to disengage.
- **Manual Mode:** Ride like a traditional bicycle without motor assistance.
- **Walk Mode:** Press and hold the "-" button until the bicycle logo appears on the display, then release the "-" button to activate walk mode (low speed assistance for walking alongside the bike).

The thumb throttle increases speed as you press down. The bike is equipped with a Shimano 7-speed shifter. Use the shifter while riding; do not adjust it when the ebike stops.

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Video 8: Shifting PAS Levels (1:30 - 2:20 in video)

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Video 9: Thumb Throttle and Cruise Control (1:55 - 2:50 in video)

The bike is equipped with an 800-lumen headlight, turn and brake lights, reflectors, and a horn for safety. Press the horn button to activate the horn. Squeezing the brake levers will activate the brake lights.

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Video 10: Horn and Brake Light Demonstration (1:19 - 1:30 in video)

3. Maintenance

Regular maintenance ensures the longevity and safe operation of your ebike.

3.1 Battery Charging

The 48V 25Ah Samsung cell battery can be charged directly on the bike or removed for charging. A red light on the charger indicates charging, and a green light indicates a full charge. Charging typically takes 6-8 hours with the 54V 3A charger. The battery is UL2271 certified for safety.



Figure 2: 48V 25Ah Samsung Cell Battery

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Video 11: Battery Charging (3:20 - 4:03 in video)

3.2 Tire Pressure

Maintain proper tire pressure for optimal performance and safety. The 20"x4" fat tires are designed for all-terrain use. Check tire pressure before each ride and inflate to the recommended PSI found on the tire sidewall.

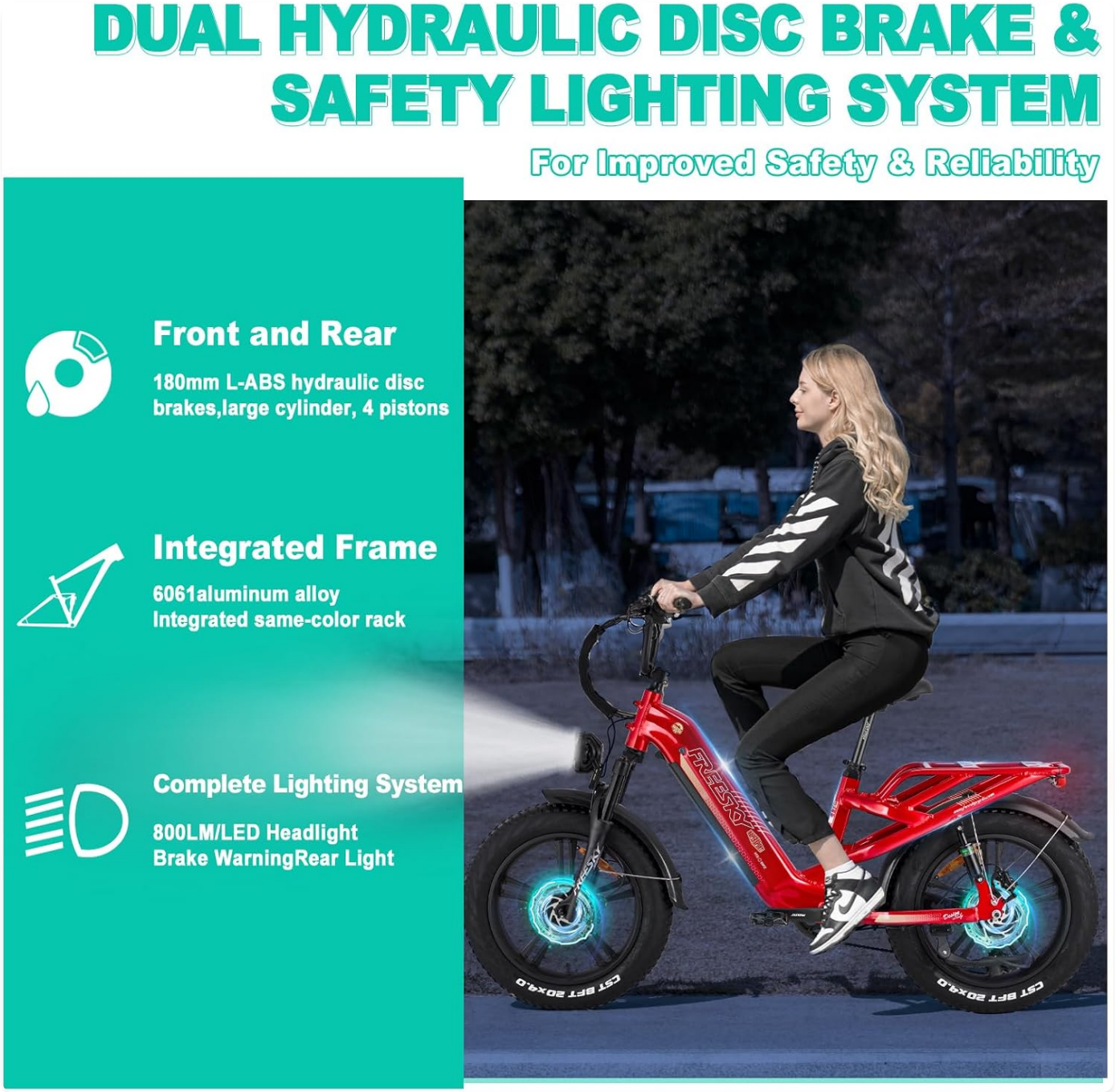


Figure 3: 20x4 Fat Tires for All-Terrain

3.3 Brake System

The bike is equipped with 4-piston hydraulic brakes (180mm rotors) for stable stops. Regularly inspect brake pads and rotors for wear and tear. Ensure brake levers are responsive and provide adequate stopping power.



Figure 4: Dual Hydraulic Disc Brakes

3.4 Full Suspension System

The full suspension system includes a hydraulic front fork and dual rear spring coil shock absorbers, absorbing 85% of bumps. Regularly check the suspension components for proper function and cleanliness.



Figure 5: Full Suspension System

4. Troubleshooting

This section covers common issues and their solutions. For complex problems, please contact customer support.

Problem	Possible Cause	Solution
Bike does not power on	Battery not inserted correctly, battery switch off, low battery, display not activated.	Ensure battery is fully inserted and locked. Turn on battery switch. Charge battery. Activate display using power button or NFC card.
Motor not assisting	PAS level is 0, throttle not engaged, brake levers engaged, motor cable loose.	Increase PAS level. Ensure throttle is fully pressed. Release brake levers. Check motor cable connections.

Problem	Possible Cause	Solution
Display shows "ERROR"	System malfunction or sensor error.	Refer to the specific error code on the display for detailed troubleshooting in the full manual. Try restarting the bike. If persistent, contact customer support.
Brakes feel weak	Worn brake pads, air in hydraulic line, misaligned caliper.	Inspect and replace brake pads if worn. Bleed hydraulic brakes (professional service recommended). Adjust caliper alignment.

5. Product Specifications

Feature	Detail
Bike Type	Electric Bike, Step-Thru Commuter
Motor	750W / Peak 1200W Brushless Motor, 100NM Torque
Max Speed	28-32 MPH (Pedal Assist Mode)
Battery	48V 25Ah Samsung Cell Battery (UL 2271 Certified)
Max Range	60-105 Miles (Pedal Assist Mode)
Charging Time	6-8 Hours (with 54V 3A charger)
Frame Material	6061 Aluminum Alloy
Wheel Size	20 Inches (20"x4" Fat Tires)
Suspension	Dual (Hydraulic Front Fork + Rear Spring Coil Shock Absorber)
Brakes	4-Piston Hydraulic Disc Brakes (180mm rotors)
Gears	7-Speed Shimano
Display	HD Color LCD with NFC System
Lighting	800-Lumen Headlight, Turn & Brake Lights, Reflectors
Recommended Rider Height	5'1" to 5'11"
Max Load Capacity	300 LBS

6. Warranty and Support

FREESKY provides a professional warranty on every electric bike:

- **18-month warranty:** Motor, Battery, and Controller.
- **12-month warranty:** All other parts.

For any questions or support, please contact FREESKY customer service. Ensure you register your product to activate your warranty.

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