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› Electric Bike S1 Pro User Manual

FHW S1 Pro, 800w 14" Tires

Electric Bike S1 Pro User Manual

Model: S1 Pro, 800w 14" Tires | Brand: FHW

1. INTRODUCTION

Welcome to the user manual for your new FHW S1 Pro Electric Bike. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your e-bike. Please read it thoroughly before your first ride to ensure optimal performance and safety.

The S1 Pro is an advanced electric bicycle designed for adults, featuring an 800W peak brushless motor, a 48V 20AH removable battery, and 14-inch tires. It offers a top speed of 21.5 MPH and a maximum range of 40 miles with pedal assist, making it suitable for various terrains and daily commutes.



Figure 1.1: The FHW S1 Pro Electric Bike, showcasing its compact and robust design.

2. SAFETY GUIDELINES

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

- **Wear a Helmet:** Always wear an approved bicycle helmet that fits properly.
- **Pre-Ride Check:** Before each ride, inspect brakes, tires, battery level, and ensure all quick releases are secure.
- **Obey Traffic Laws:** Follow all local traffic laws, signs, and regulations.
- **Visibility:** Use the integrated LED headlights and rear taillights, especially during low light conditions. Wear reflective clothing.
- **Weather Conditions:** Exercise caution when riding in wet or slippery conditions. The IP67 waterproof rating protects the bike from splashes, but it is not designed for submersion.
- **Weight Limit:** Do not exceed the maximum weight recommendation of 180 pounds.
- **Age Range:** This electric bike is designed for adult use.

Bright LED Light

Headlights and rear taillights will light your way.



Figure 2.1: Bright LED headlights and rear taillights enhance visibility for safer riding.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all the following components are included:

- FHW S1 Pro Electric Bike (main unit)
- User Manual
- Charger
- Remote Alarm (Car Lock Function)
- Front Basket
- Bike Lock
- Multi-Tool
- Folding Pedals
- Rear Footrest

4. ASSEMBLY & SETUP

The S1 Pro comes mostly pre-assembled. Follow these general steps for final setup:

1. **Unfold the Bike:** Carefully unfold the frame and secure the locking mechanisms. Ensure the handlebar stem is upright and locked into position.
2. **Install Pedals:** Attach the folding pedals to the crank arms. Note that pedals are typically left (L) and right (R) specific and thread in opposite directions.
3. **Install Front Basket:** Secure the front basket to the designated mounting points.
4. **Adjust Seat Height:** Adjust the seat post to a comfortable and safe riding height. Ensure the quick release is firmly tightened.
5. **Charge Battery:** Fully charge the battery before your first ride. Refer to the "Battery Management" section for details.
6. **Pre-Ride Inspection:** Perform a thorough safety check as outlined in Section 2.



Figure 4.1: The S1 Pro in its unfolded configuration, highlighting its readiness for quick setup.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

To power on the bike, insert the key into the ignition and turn it to the 'ON' position. The LCD display will illuminate. To power off, turn the key to the 'OFF' position.

5.2 Riding Modes

The S1 Pro offers three riding modes:

- **Pedal Mode (Off):** When the electric bicycle is turned off, it functions as a traditional bicycle, requiring pedal power.
- **Pedal Assist Mode (PAS):** When the electric bicycle is turned on, this mode provides motor assistance as you pedal. The level of assistance can be adjusted via the controls on the handlebar.
- **Full Electric Power Supply Mode:** When the electric bicycle is turned on, this mode allows for throttle-only operation without pedaling.



Figure 5.1: The handlebar controls and HD LCD display for easy operation and monitoring.

5.3 LCD Display

The HD LCD display provides vital information including speed, battery level, and trip distance. Familiarize yourself with the display readings before riding.

5.4 Braking

The S1 Pro is equipped with dual mechanical disc brakes for reliable stopping power. Apply both brake levers smoothly and evenly to slow down or stop. Avoid sudden, harsh braking, especially at high speeds or on slippery surfaces.

5.5 Folding Mechanism

The S1 Pro features a convenient folding design for easy storage and transport. To fold the bike, locate the folding latch on the main frame and handlebar stem. Follow the instructions in the quick start guide for proper folding and unfolding procedures. Ensure all latches are securely engaged before riding.

Your browser does not support the video tag.

Video 5.1: An official demonstration of the S1 Pro 800W Folding Electric Bike, showcasing its features and folding capability.



Figure 5.2: The S1 Pro in action, demonstrating its suitability for various riding environments.

6. BATTERY MANAGEMENT

The S1 Pro is powered by a 48V 20AH removable battery, offering a substantial range.

- **Charging:** Use only the provided charger. Connect the charger to the bike's charging port or directly to the removed battery. A full charge typically takes 5 hours.
- **Battery Care:** Avoid completely draining the battery. Store the battery in a cool, dry place when not in use. For long-term storage, charge the battery to about 50-70% every 1-2 months.
- **Range:** Expect up to 31 miles on pure electric mode and over 40 miles with pedal assist, depending on terrain, rider weight, and riding style.



Figure 6.1: The 48V 20AH battery, highlighting its capacity and integrated BMS for safety.

7. MAINTENANCE

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

- **Tires:** Maintain proper tire pressure (refer to tire sidewall for recommended PSI). Regularly check for wear and punctures. The 14-inch armored tires are designed for durability.
- **Brakes:** Inspect brake pads for wear and brake cables for tension. Adjust or replace as needed.
- **Chain:** Keep the chain clean and lubricated to ensure smooth operation and prevent rust.
- **Fasteners:** Periodically check and tighten all bolts, nuts, and quick releases.
- **Cleaning:** Clean the bike with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Suspension:** The dual suspension system (hydraulic rear shock absorbers and dual front suspension) requires minimal maintenance but should be checked for proper function.

Hydraulic rear shock absorbers

Super shock absorption for greater comfort and durability



Figure 7.1: Hydraulic rear shock absorbers provide enhanced comfort and durability.

Dual Front Suspension

Embrace the bumps and provide comfortable riding experience even in unfalt road



Figure 7.2: Dual front suspension designed to absorb bumps for a comfortable ride.

8. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Bike does not power on.	Battery not charged, battery not properly seated, key not in 'ON' position.	Charge battery, ensure battery is securely installed, turn key to 'ON'.
Motor not assisting.	Low battery, wrong riding mode selected, loose motor connection.	Check battery level, switch to Pedal Assist or Full Electric mode, inspect motor cable connections.
Brakes feel weak.	Worn brake pads, loose brake cables.	Inspect and replace brake pads if worn, adjust brake cable tension.

Problem	Possible Cause	Solution
Unusual noises during ride.	Loose components, dry chain, foreign object.	Check all fasteners, lubricate chain, inspect for debris.

If you encounter issues not listed here or require further assistance, please contact customer support.

9. SPECIFICATIONS

Feature	Detail
Bike Type	Electric Bike
Model Name	S1 PRO
Motor	800W Peak Brushless Motor
Top Speed	21.5 MPH (3-speed adjustable)
Battery	48V 20AH Removable Battery (960 Watt Hours)
Max Range	31 miles (pure electric), 40+ miles (with PAS)
Charging Time	Approx. 5 hours
Tires	14 Inches All-Terrain Armored Tires
Frame Material	High Carbon Steel
Suspension Type	Dual (Hydraulic Rear Shock Absorbers, Dual Front Suspension)
Brake Style	Dual Mechanical Disc Brakes
Max Weight Recommendation	180 Pounds
Item Weight	68 Pounds
Waterproof Rating	IP67



Figure 9.1: The powerful 800W brushless motor and its performance capabilities.



Figure 9.2: The 14-inch all-terrain tires are designed for diverse riding conditions.

10. WARRANTY & SUPPORT

Your FHW S1 Pro Electric Bike comes with a **1-year warranty** on all critical components (3 months on accessories). For any questions, technical assistance, or warranty claims, please contact our customer support team:

Customer Support: 24/7 availability

Technical Callback: 1-on-1 technical support available

Service Centers: 2 Authorized US Service Centers

Phone: +1-518-614-6355

Email: service@tomofree.com



Figure 10.1: Dedicated customer support is available to assist you.