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ONEBOT S7

ONEBOT S7 Electric Folding Bicycle User Manual

Model: S7

Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and care of your ONEBOT S7 Electric Folding Bicycle. Please read this manual thoroughly before using the bicycle to ensure proper understanding of its features and functions. Retain this manual for future reference.

Setup and Initial Assembly

The ONEBOT S7 Electric Folding Bicycle arrives approximately 97% pre-assembled. Basic assembly steps are required to prepare the bicycle for use. A charger, bicycle pump, and front & rear fenders are included.
It is recommended to have the e-bike assembled by a professional at a bicycle shop. Additionally, have the bike serviced after one month of use to ensure all components are correctly set and calibrated.



Image: The ONEBOT S7 Electric Folding Bicycle in its unfolded state, ready for use. This image provides a general overview of the bicycle's appearance.

Key Components

Magnesium Alloy Frame

The bicycle features an integrated molded magnesium alloy frame. This material is approximately 35% lighter than aluminum alloy for the same volume, offering high strength, corrosion resistance, and oxidation resistance without welded connections.



Image: Close-up view of the ONEBOT S7's magnesium alloy frame, highlighting its design and material properties.

Rear Shock Absorber

The ONEBOT S7 is equipped with a rear shock absorber to enhance riding comfort by absorbing impacts from uneven surfaces.



Image: Detailed view of the soft rear suspension system on the ONEBOT S7, designed for improved ride comfort.

Removable Battery

The lithium-ion battery is concealed within the magnesium alloy frame and is removable and lockable with a key. This design ensures battery security and allows for convenient off-bike charging.

Motor and Braking System

The bicycle features a 36V 250W motor and a dual disc braking system (front and rear) for reliable stopping power.



Image: Close-up of the rear wheel, showing the motor housing and the disc brake mechanism.



Image: Detailed view of the rear disc brake caliper and rotor, indicating the braking system components.

Operating Instructions

Folding and Unfolding

The ONEBOT S7 is designed for quick folding in approximately 10 seconds. Built-in magnets help secure the bicycle in its folded position. This feature facilitates easy storage and transport.



Image: The ONEBOT S7 in its folded configuration, illustrating its compact size for storage and transport. Key dimensions for the folded state are also shown.

Battery Charging

To charge the battery, remove it from the frame or connect the charger directly to the bicycle. The full charge time is approximately 3 hours using the provided 100-240V input, 42V 2.0A output charger.

LCD Display and Riding Modes

The bicycle is equipped with an LCD display that shows current speed, distance traveled, pedal assist level, and battery life. There are 3 riding modes available to customize your ride performance. The twisting hand throttle allows for electric-only propulsion.

Adjusting Seat Height

The seat height is adjustable from 800mm to 910mm to accommodate different rider heights.

Maintenance

Regular maintenance is crucial for the longevity and safe operation of your ONEBOT S7. This includes:

- **Tire Pressure:** Regularly check and maintain appropriate tire pressure for the 16*1.95 inflatable tires.
- **Brake System:** Inspect the front and rear disc brakes for wear and proper function. Adjust or replace brake pads as needed.
- **Battery Care:** Avoid fully discharging the battery frequently. Store the bicycle in a cool, dry place when not in use for extended periods.
- **General Cleaning:** Keep the bicycle clean, especially after riding in wet or dirty conditions. Avoid using high-pressure water jets directly on electrical components.
- **Professional Servicing:** As mentioned in the setup, a professional service after the first month of use is recommended to ensure all components are correctly adjusted.

Troubleshooting

This section provides general guidance for common issues. For complex problems, contact customer support or a professional bicycle technician.

- **Bicycle Not Powering On:** Ensure the battery is fully charged and correctly inserted. Check all connections.
- **Reduced Range:** This can be due to low tire pressure, riding against strong winds, frequent use of high-assist modes, or aging battery. Ensure proper tire inflation and consider riding in lower assist modes.
- **Brakes Squealing:** This may indicate dirty brake pads or rotors, or worn pads. Clean the braking surfaces or replace pads if necessary.
- **Unusual Noises:** Inspect for loose components, especially around the wheels, pedals, and folding mechanisms. Tighten any loose parts.

Technical Specifications



Image: Diagram illustrating the unfolded dimensions, net weight, maximum speed, and maximum mileage of the ONEBOT S7 Electric Folding Bicycle.

Feature	Specification
Unfolded Dimensions (L*W*H)	1360mm * 600mm * 1120mm
Folded Dimensions (L*W*H)	800mm * 420mm * 750mm
Seat Height	800-910mm (adjustable)
Wheelbase	950mm
Net Weight (incl. battery)	18.2 kg (40.1 lbs)
Frame Material	Magnesium Alloy Die Casting
Tyres	16 * 1.95 Inflatable
Motor	36V 250W

Battery	36V 5.2Ah (280 Watt Hours)
Full Charge Time	3 Hours
Charger Input/Output	100-240V input, 42V 2.0A output
Controller	3-level speed
Sensor	Speed sensor
Max Speed	25 km/h (15.5 MPH)
Max Mileage	50 km (30 miles)
Max Load	120 kg (264.55 lbs)
Climbing Angle	15°
Brake System	Front and Rear Disc
Suspension Type	Rear
Included Accessories	Charger, Bicycle Pump, Front & Rear Fenders, Lock, Tool Kit

Warranty Information

The ONEBOT S7 Electric Folding Bicycle comes with the following warranty:

- **1 Year Warranty:** Applies to all electronic parts, including the battery, motor, controller, display, and lights.
- **1 Year Warranty:** Applies to the bicycle frame.

This warranty covers manufacturing defects. Parts that wear due to normal use, such as tires, brake pads, and chains, are not included in the warranty. However, these wear parts may be replaced on a case-by-case basis within the first 3 months from the purchase date if a defect is identified.

Customer Support

For any questions, concerns, or assistance regarding your ONEBOT S7 Electric Folding Bicycle, please contact our customer service team. We are committed to providing comprehensive support.

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