## **Discovery E8200**

# Discovery E8200 Electric Trekking Bike User Manual

Model: E8200 | Brand: Discovery

#### INTRODUCTION

Welcome to the user manual for your new Discovery E8200 Electric Trekking Bike. This manual provides essential information for the safe and efficient operation, assembly, maintenance, and troubleshooting of your bicycle. Please read this manual thoroughly before your first ride and keep it for future reference.

The Discovery E8200 is an assisted pedaling trekking bike featuring 28-inch wheels, a cushioned front fork, mechanical disc brakes, and a Shimano 7-speed derailleur. It is equipped with a 250W rear wheel motor and a 36V 10.4Ah (374.4 Wh) battery, offering up to 70 km of range and a maximum assisted speed of 25 km/h. The bike includes 6 levels of assistance controlled via an LCD screen on the handlebar, along with a 6 km/h walk-assist function.



Figure 1: Side view of the Discovery E8200 Electric Trekking Bike, showcasing its frame, wheels, and integrated battery.

#### SAFETY INFORMATION

- · Always wear a helmet that meets safety standards.
- · Ensure all components, especially brakes, tires, and quick releases, are in good working order before each ride.
- Familiarize yourself with local traffic laws and regulations regarding electric bicycles.
- . Do not ride under the influence of alcohol or drugs.
- Be visible: Use lights and reflective gear, especially when riding in low light conditions.
- Maintain a safe distance from other vehicles and pedestrians.
- · Avoid riding in extreme weather conditions.
- Do not modify the electrical system or motor of the bicycle.
- · Keep hands and feet clear of moving parts, especially the chain and gears.
- The battery should only be charged using the original charger provided.

# SETUP AND INITIAL ASSEMBLY

Your Discovery E8200 bike may require some assembly upon arrival. Follow these steps carefully:

- 1. **Unpacking:** Carefully remove the bicycle and all components from the packaging. Retain packaging for potential future transport or returns.
- 2. **Handlebar Installation:** Attach the handlebar to the stem. Ensure it is centered and the bolts are tightened securely. Adjust the angle for comfortable riding.
- 3. **Seat Post and Saddle:** Insert the seat post into the frame and adjust the saddle height to ensure your feet can comfortably touch the ground when stopped, or for optimal pedaling efficiency. Tighten the quick-release lever or bolt.
- 4. **Pedal Attachment:** Identify the left (L) and right (R) pedals. The left pedal has a reverse thread. Apply a small amount of grease to the threads and screw them into the crank arms. Tighten firmly with a wrench.
- 5. **Front Wheel Installation (if detached):** If the front wheel is not pre-installed, align the disc brake rotor with the caliper and insert the axle into the fork dropouts. Secure with the quick-release skewer or axle nuts.
- 6. Tire Inflation: Inflate both tires to the recommended pressure indicated on the tire sidewall.
- 7. **Initial Battery Charge:** Before your first ride, fully charge the battery. Connect the charger to the battery port and then to a power outlet. The indicator light on the charger will change when fully charged.
- 8. **Brake Check:** Test both front and rear brakes to ensure they engage properly and stop the bike effectively. Adjust if necessary.
- 9. General Inspection: Double-check all bolts, nuts, and quick releases to ensure they are tight and secure.



Figure 2: Front view of the bike, useful for handlebar and front wheel assembly.

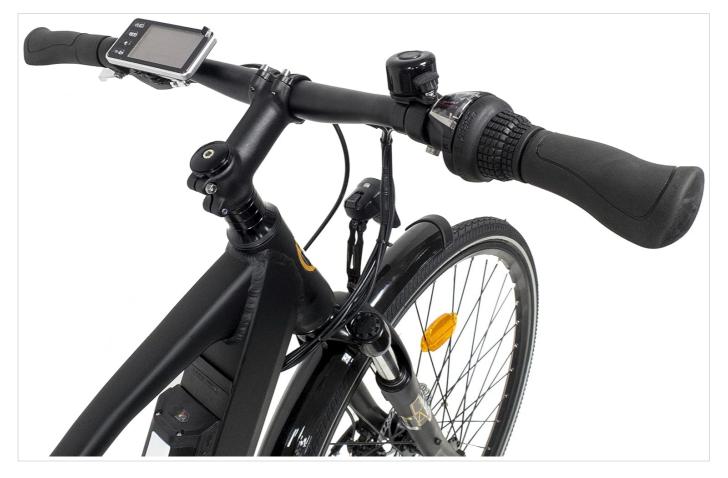


Figure 3: Detailed view of the handlebar, showing the display unit and controls for initial setup.

# **OPERATING INSTRUCTIONS**

Understanding your bike's controls and features will enhance your riding experience.

# 1. Powering On/Off and LCD Display

The LCD display on your handlebar controls the electric assist system.

- Power On: Press and hold the power button on the display for a few seconds until the screen illuminates.
- Power Off: Press and hold the power button again until the screen turns off.
- **Display Information:** The LCD shows current speed, battery level, assistance level (PAS), trip distance, and total odometer.
- Assistance Levels: Use the '+' and '-' buttons to cycle through the 6 levels of pedal assistance. Level 1 provides minimal assist, while Level 6 provides maximum assist.
- Walk-Assist Function: Press and hold the '-' button (or a dedicated walk-assist button if present) to activate the 6 km/h walk-assist mode, useful for pushing the bike uphill or through pedestrian areas.



Figure 4: Detailed view of the LCD display, showing battery, speed, and pedal assist level indicators.

# 2. Gear Shifting (Shimano 7-Speed)

Your bike is equipped with a Shimano 7-speed derailleur system.

- Use the shifter on the right handlebar to change gears.
- Shift to a lower gear (larger cog) for easier pedaling on inclines.
- Shift to a higher gear (smaller cog) for faster speeds on flat terrain or downhill.
- Always pedal lightly when shifting gears to ensure smooth transitions and prevent damage to the drivetrain.



Figure 5: Rear view of the bike, highlighting the Shimano 7-speed derailleur and rear rack.

# 3. Braking System (Mechanical Disc Brakes)

The Discovery E8200 features mechanical disc brakes for reliable stopping power.

- The right brake lever controls the rear brake, and the left brake lever controls the front brake.
- Apply both brakes simultaneously for effective and controlled stopping.
- Avoid sudden, hard braking with only the front brake, especially at high speeds, as this can lead to loss of control.
- Brake performance may be reduced in wet conditions. Ride cautiously.



Figure 6: Rear disc brake and motor assembly.



Figure 7: Front disc brake assembly.

# **M**AINTENANCE

#### Battery Care:

- o Charge the battery fully after each ride, or at least once a month if not in use, to maintain battery health.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not completely drain the battery regularly, as this can reduce its lifespan.
- **Tire Pressure:** Check tire pressure before each ride and inflate to the recommended PSI (pounds per square inch) found on the tire sidewall.
- **Brakes:** Regularly inspect brake pads for wear and replace them when necessary. Ensure brake levers have proper tension and the brakes engage smoothly.
- Chain and Drivetrain: Keep the chain clean and lubricated. Periodically check for chain stretch and wear on the gears.
- **Bolts and Fasteners:** Periodically check all bolts, nuts, and quick releases for tightness. Loose components can be dangerous.
- Cleaning: Clean your bike regularly with a damp cloth and mild soap. Avoid using high-pressure washers directly on electrical components.
- **Professional Service:** For complex repairs or adjustments, especially involving the motor or electrical system, consult a qualified bicycle mechanic.

## **T**ROUBLESHOOTING

This section addresses common issues you might encounter with your Discovery E8200.

Problem	Possible Cause	Solution
Motor not assisting / No power	Battery low or not charged; Power button not pressed; Loose electrical connection; System error.	Charge battery fully; Ensure display is powered on; Check all visible cable connections; Consult manual for error codes or contact support.
Battery not charging	Charger not connected properly; Faulty charger or battery; Power outlet issue.	Ensure secure connection; Try a different power outlet; Contact support for charger/battery replacement.
Brakes squealing or not effective	Dirty brake pads/rotors; Worn brake pads; Misaligned caliper; Loose cable.	Clean pads/rotors with disc brake cleaner; Replace worn pads; Adjust caliper alignment; Tighten brake cable.
Gears not shifting smoothly	Dirty or unlubricated chain; Derailleur out of adjustment; Bent hanger.	Clean and lubricate chain; Adjust derailleur limit screws and cable tension; Consult a bike mechanic for bent hanger.
Unusual noises from bike	Loose components; Dry bearings; Something rubbing.	Inspect all parts for looseness; Lubricate moving parts; Identify and remove rubbing objects.

## **SPECIFICATIONS**

Feature	Detail
Model	Discovery E8200
Bike Type	Electric Trekking Bike

Feature	Detail
Frame Material	Aluminum
Wheel Size	28 Inches
Color	Matte Black
Motor Power	250 W (Rear Wheel Motor)
Battery	36 V 10.4 Ah (374.4 Wh) Lithium-ion
Max Assisted Range	Up to 70 km (43 miles)
Max Assisted Speed	25 km/h (15.5 mph)
Assistance Levels	6 levels, controlled via LCD display
Gears	Shimano 7-speed derailleur
Brakes	Mechanical Disc Brakes (Front & Rear)
Suspension	Front Fork Suspension
Included Components	Bicycle, Battery, Charger

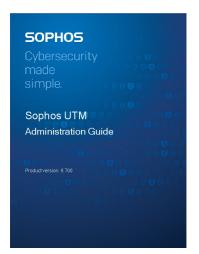
## WARRANTY AND SUPPORT

For information regarding your product's warranty, please refer to the warranty card or documentation included with your purchase. Warranty terms and conditions may vary.

If you encounter issues not covered in the troubleshooting section or require further assistance, please contact the retailer or manufacturer's customer support. Have your model number (E8200) and purchase details ready when contacting support.

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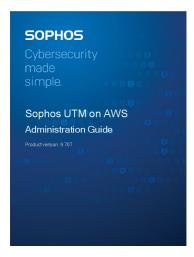
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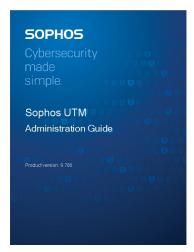
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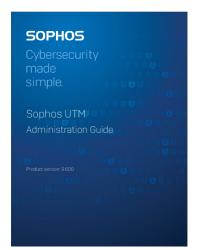


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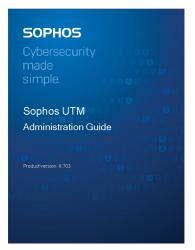


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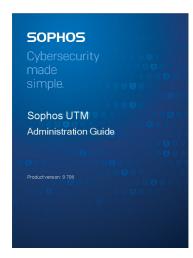
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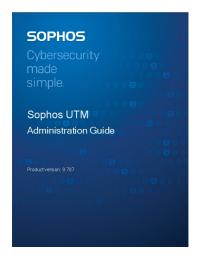
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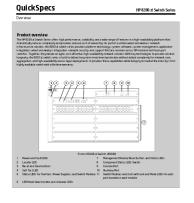


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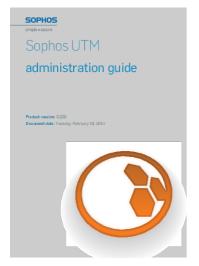


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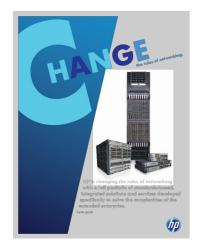
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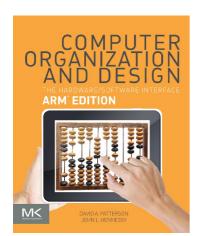


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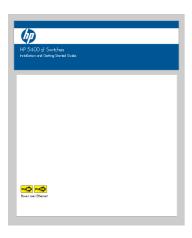


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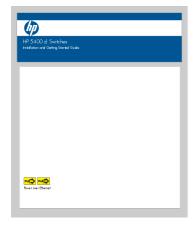


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HP 5400 zl Switches Installation and Getting Started Guide Power over Ethernet HP 5400 zl Switche ... J9536A, J9537A, J9549A, J9550A, J9547A, J9548A, J9637A \* For use with HP Networking Switch Series **E8200** only conforms to the following Product Specifications and Regulations: EMC: Class A EN 55022:...

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#### HP 5400 zl Switches Installation and Getting Started Guide

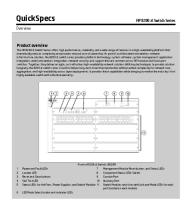
This guide provides comprehensive instructions for installing and getting started with HP 5400 zl switches, covering setup, configuration, and troubleshooting for high-speed networking.

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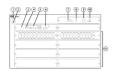
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