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DUOTTS F26

DUOTTS F26 Electric Mountain Bike User Manual

Model: F26

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your DUOTTS F26 Electric Mountain Bike. Please read this manual thoroughly before your first ride and keep it for future reference.

The DUOTTS F26 is a robust electric mountain bike designed for various terrains, featuring dual motors for powerful performance, a large capacity removable battery, 26x4 inch fat tires, and a hydraulic brake system for enhanced safety and control.

2. SAFETY INFORMATION

Always prioritize safety when operating your e-bike. Failure to follow safety guidelines can result in serious injury or damage to the bike.

- **Wear a Helmet:** Always wear an approved bicycle helmet that fits properly.
- **Pre-Ride Check:** Before each ride, check tire pressure, brake function, battery charge, and ensure all quick releases and fasteners are secure.
- **Obey Traffic Laws:** Follow all local traffic laws, regulations, and signs.
- **Be Visible:** Use lights and reflective gear, especially when riding at dawn, dusk, or night.
- **Weather Conditions:** Exercise caution in wet or slippery conditions. Braking distance increases significantly.
- **Weight Limit:** Do not exceed the maximum load capacity of 150 kg (330 lbs).
- **Battery Safety:** Do not attempt to open or modify the battery pack. Charge the battery only with the provided charger in a well-ventilated area.

3. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your DUOTTS F26 e-bike:



Figure 3.1: Overall view of the DUOTTS F26 Electric Mountain Bike. This image shows the complete bike with its fat tires, frame, seat, handlebars, and integrated components.



Figure 3.2: Illustration of the dual motor system. The DUOTTS F26 features powerful motors on both the front and rear wheels, providing enhanced traction and climbing ability.



Figure 3.3: The 48V 18Ah large capacity removable battery. This battery is integrated into the frame and can be easily removed for charging or security.

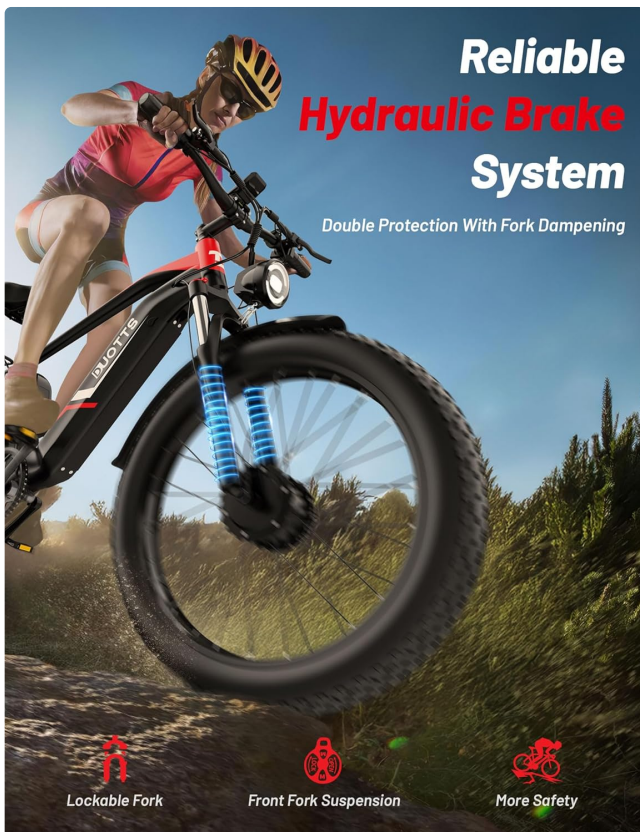


Figure 3.4: The reliable hydraulic brake system. This system provides strong and consistent stopping power, crucial for all-terrain riding.



Figure 3.5: The colorful LCD display. This display provides real-time information such as speed, battery level, and pedal assist mode.

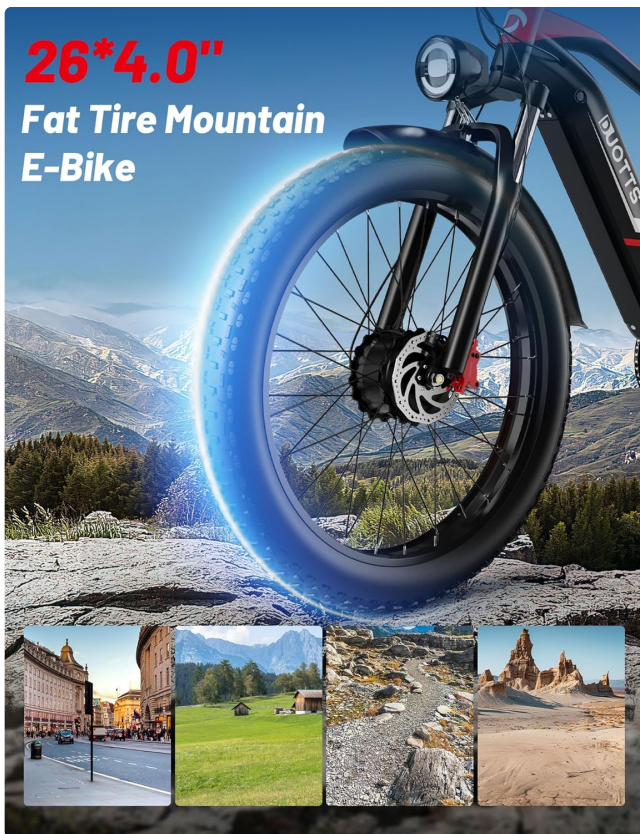


Figure 3.6: The 26x4.0 inch fat tires. These wide tires provide excellent grip and stability on various surfaces, including sand, snow, and rough trails.

4. SETUP AND ASSEMBLY

Your DUOTTS F26 e-bike comes 90% pre-assembled. Follow these steps to complete the setup:

1. **Unpacking:** Carefully remove the bike and all components from the packaging. Retain the packaging for future transport or storage.
2. **Handlebar Installation:** Attach the handlebars to the stem, ensuring they are centered and tightened securely.
3. **Front Wheel Installation:** Install the front wheel, ensuring the brake rotor is correctly aligned with the caliper and the quick release or axle nuts are tightened.
4. **Pedal Installation:** Identify the left (L) and right (R) pedals. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise. Ensure they are fully tightened.
5. **Seat Post Adjustment:** Insert the seat post into the frame and adjust the seat height for comfortable riding. Ensure the quick release lever is securely closed.
6. **Battery Installation & Charging:** Insert the battery into its compartment. Ensure it clicks into place. Before your first ride, fully charge the battery using the provided charger. The charging time is approximately 6-8 hours.
7. **Tire Inflation:** Inflate the tires to the recommended pressure, typically indicated on the tire sidewall. For fat tires, pressure can vary significantly based on terrain (e.g., lower pressure for soft terrain like sand/snow, higher for pavement).
8. **Brake Check:** Test both front and rear brakes to ensure they engage properly and stop the bike effectively.

5. OPERATING INSTRUCTIONS

Understanding how to operate your DUOTTS F26 will enhance your riding experience.

5.1 Powering On/Off

- To power on the bike, press and hold the power button on the LCD display for a few seconds.
- To power off, press and hold the power button again until the display turns off.

5.2 LCD Display Functions

The colorful LCD display provides vital information:

- **Speed:** Current riding speed.
- **Battery Level:** Indicates remaining battery charge.
- **Pedal Assist Level:** Shows the current level of motor assistance (0-5).
- **Odometer/Trip Distance:** Total distance ridden or distance for the current trip.
- **Headlight Indicator:** Shows if the integrated LED headlight is on.

5.3 Riding Modes

The DUOTTS F26 offers three riding modes:

- **Pure Electric Mode:** Engage the throttle (if equipped) to ride without pedaling. The motor provides all propulsion.

- **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. Use the '+' and '-' buttons on the handlebar to adjust the assist level (1-5). Higher levels provide more power.
- **Manual Mode:** Ride the bike like a traditional bicycle, without any motor assistance.

5.4 Gear Shifting

The bike is equipped with a 7-speed professional transmission system. Use the gear shifters on the handlebar to change gears according to terrain and desired effort. Shift to lower gears for climbing and higher gears for flat terrain or downhill riding.

5.5 Braking

The hydraulic disc brakes provide powerful and reliable stopping. Apply both front and rear brakes simultaneously for optimal stopping power and control. Avoid sudden, hard braking, especially on loose surfaces.



Figure 5.1: The DUOTTIS F26 is designed for diverse terrains, including shallow water crossings, thanks to its robust construction and fat tires. Exercise caution and avoid deep water.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your DUOTTS F26 e-bike.

- **Cleaning:** Clean your bike regularly with a damp cloth and mild soap. Avoid high-pressure washing directly on electrical components.
- **Battery Care:**
 - Charge the battery after each ride, or at least once a month if not in use.
 - Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
 - Do not fully discharge the battery frequently.
- **Tires:** Check tire pressure before each ride. Inspect tires for wear, cuts, or embedded objects.
- **Brakes:** Regularly check brake pads for wear and brake levers for proper tension. If brakes feel spongy or ineffective, have them inspected by a qualified technician.
- **Chain:** Keep the chain clean and lubricated to ensure smooth shifting and prevent rust.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases to ensure they are tightened to the correct torque specifications.
- **Suspension:** Inspect the front suspension fork for proper function and cleanliness.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your DUOTTS F26 e-bike.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged; Battery not properly seated; Loose electrical connection; Power button malfunction.	Charge battery; Ensure battery is fully inserted; Check all visible connections; Contact support if issue persists.
Motor not assisting	Pedal Assist System (PAS) level is 0; Brake levers engaged; Motor connection loose; Controller issue.	Increase PAS level; Ensure brake levers are fully released; Check motor cable connection; Contact support.
Brakes feel weak or spongy	Worn brake pads; Air in hydraulic line; Misaligned caliper.	Inspect and replace brake pads; Bleed hydraulic system (professional recommended); Adjust caliper alignment.
Gears not shifting smoothly	Dirty or dry chain; Derailleur out of adjustment; Bent hanger.	Clean and lubricate chain; Adjust derailleur (refer to specific derailleur manual); Inspect hanger for damage.
Tire loses air quickly	Puncture; Loose valve stem; Damaged tube/tire.	Inspect tire for punctures and repair/replace tube; Tighten valve stem; Replace damaged tire/tube.

For issues not listed here or if solutions do not resolve the problem, please contact DUOTTS customer support.

8. SPECIFICATIONS

Key technical specifications for the DUOTTS F26 Electric Mountain Bike:

Feature	Specification
Bike Type	Mountain Bike, Freeride Bike
Brake Type	Disc (Hydraulic)
Color	Black and Red
Dimensions (L*W*H)	193 x 72 x 118 cm
Frame Size	26 Inches
Material Type	Aluminum Alloy
Suspension	Full Suspension
Included Components	Charger
Brand	DUOTTS
Model Number	F26
Model Name	Duotts F26
Model Year	2025
Assembly Required	No (90% pre-assembled)
Battery Capacity	48V 18Ah (approx. 960 Wh)
Estimated Range	40-99 km (25-62 miles) in assist mode
Max Load Capacity	150 kg (330 lbs)
Recommended Rider Height	5.6 ft - 6.6 ft

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your purchase or visit the official DUOTTS website. If you require technical assistance, have questions about operation, or need to order replacement parts, please contact DUOTTS customer support through the details provided on the product packaging or the brand's official channels.