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GLRDRD CT20

DRVETION CT20 Electric Folding Bike User Manual

Model: CT20

1. Introduction

Thank you for choosing the DRVETION CT20 Electric Folding Bike. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your new electric bicycle. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.

The DRVETION CT20 is designed for adults, featuring a powerful motor, long-range battery, and robust construction for a comfortable and efficient riding experience in various urban and off-road conditions.

2. Safety Information

Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Adhere to all local traffic laws and regulations. Familiarize yourself with the bike's controls and features before riding in traffic.

2.1 General Safety Precautions

- Always perform a pre-ride inspection, checking brakes, tire pressure, and battery level.
- Do not ride under the influence of alcohol or drugs.
- Be aware of your surroundings and potential hazards.
- Avoid riding in extreme weather conditions.
- Ensure all quick releases and fasteners are securely tightened before each ride.

2.2 Battery Safety

- Use only the charger provided by DRVETION.
- Do not expose the battery to extreme temperatures or direct sunlight for prolonged periods.
- Do not puncture, drop, or disassemble the battery pack.
- Charge the battery in a well-ventilated area, away from flammable materials.

3. Product Overview

The DRVETION CT20 Electric Folding Bike combines power, durability, and convenience. Key features include:

- **750W Upgraded Powerful Motor:** Equipped with a 750W brushless motor, offering high performance, low noise, and low energy consumption. Maximum peak power reaches 850-900W.
- **48V 15Ah Detachable Lithium Battery:** Features brand-name cells, supporting over 3,000 charging cycles with a typical lifespan of 1,000 cycles. Includes a power lock function.
- **Premium Brand Components:** Includes a 7-speed transmission system for versatile riding across different terrains.
- **20×4.0-Inch Wide Tires:** Puncture-resistant wide tires for enhanced stability and comfort on various surfaces like sand, snow, or uneven terrain.
- **Three Riding Modes:** Electric assist mode (70-100 km range), pure electric mode (40-60 km range), and manual mode.



Figure 3.1: Overview of the DRVETION CT20 Electric Folding Bike. This image shows the overall design of the bike, highlighting its folding mechanism and fat tires.

4. Setup

Your DRVETION CT20 Electric Folding Bike comes partially assembled. Follow these steps for initial setup:

1. **Unpacking:** Carefully remove the bike and all accessories from the packaging. Retain packaging for future transport or storage.
2. **Unfolding the Frame:** Release the frame latch and unfold the bike until the frame locks into place. Ensure the latch is securely fastened.
3. **Handlebar Setup:** Adjust the handlebar stem to your desired height and angle. Tighten all quick releases and bolts securely.
4. **Pedal Installation:** Identify left (L) and right (R) pedals. Screw them into the crank arms. Note that the left pedal is reverse-threaded. Tighten firmly with a wrench.
5. **Seat Post Adjustment:** Insert the seat post and adjust the saddle height for comfortable pedaling. Ensure the quick release is tightened.
6. **Battery Installation & Charging:** Insert the battery into its compartment and lock it. Fully charge the battery before your first ride. The battery can be charged directly on the bike or removed for charging.
7. **Tire Inflation:** Inflate tires to the recommended pressure indicated on the tire sidewall.
8. **Brake Check:** Test both front and rear brakes to ensure they engage properly and stop the bike effectively.

5. Operating Instructions

5.1 Powering On/Off

- To power on, press and hold the power button on the display panel.
- To power off, press and hold the power button again until the display turns off.

5.2 Riding Modes

The DRVETION CT20 offers three distinct riding modes:

1. **Manual Mode (Pedal Only):** Ride the bike like a traditional bicycle without motor assistance. Use the 7-speed transmission system to adjust gear ratios.
2. **Electric Assist Mode (Pedal-Assist):** The motor provides assistance as you pedal. Adjust the assist level (usually 1-5) via the display panel. This mode offers a range of 70-100 kilometers depending on terrain, rider weight, and assist level.

3. **Pure Electric Mode (Throttle Only):** Engage the throttle to propel the bike without pedaling. This mode offers a range of 40-60 kilometers. Use this mode cautiously and be aware of local regulations regarding throttle use.

5.3 Gear Shifting

The 7-speed transmission system allows you to adapt to various terrains. Shift gears smoothly by pedaling lightly while operating the shifter. Lower gears are for climbing hills, and higher gears are for flat terrain and higher speeds.

5.4 Braking

Apply both front and rear brakes simultaneously for effective and safe stopping. Practice braking in a safe, open area before riding in traffic.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your DRVETION CT20 Electric Folding Bike.

6.1 Routine Checks

- **Tires:** Check tire pressure before each ride. Inspect for wear, cuts, or punctures.
- **Brakes:** Ensure brake levers are firm and responsive. Check brake pads for wear and replace if necessary.
- **Chain:** Keep the chain clean and lubricated. Check for proper tension.
- **Bolts & Fasteners:** Periodically check and tighten all bolts, nuts, and quick releases, especially on the folding mechanisms.
- **Battery:** Keep battery terminals clean. Store the battery in a cool, dry place when not in use for extended periods. Charge it every 1-2 months even if not used.

6.2 Cleaning

Clean your bike regularly with a damp cloth and mild detergent. Avoid using high-pressure washers directly on electrical components or bearings.

7. Troubleshooting

This section addresses common issues you might encounter with your electric bike.

Problem	Possible Cause	Solution
Motor not assisting	Battery low/dead; Power not on; Loose connection; Brake lever sensor engaged.	Charge battery; Turn on power; Check all cables; Ensure brake levers are fully released.
Short battery range	Under-inflated tires; Frequent use of throttle; Riding uphill; Cold weather.	Inflate tires to recommended pressure; Use pedal assist more; Avoid steep hills; Battery performance decreases in cold.
Brakes squealing	Dirty brake pads/rotors; Worn brake pads; Misaligned calipers.	Clean pads/rotors; Replace worn pads; Adjust caliper alignment.
Gears not shifting smoothly	Dirty/dry chain; Derailleur out of adjustment; Bent hanger.	Clean and lubricate chain; Adjust derailleur; Consult a bike mechanic for bent hanger.

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

8. Specifications

Feature	Detail
Motor	750W Brushless Motor (Peak 850-900W)
Battery	48V 15Ah/20Ah Detachable Lithium Battery
Tires	20 x 4.0-inch Puncture-Resistant Fat Tires
Transmission	7-Speed System
Max Speed	Up to 28 MPH (45 km/h)
Electric Assist Range	70-100 kilometers (43-62 miles)
Pure Electric Range	40-60 kilometers (25-37 miles)
ASIN	B0DR8MVBLB
Date First Available	December 23, 2024

9. Warranty and Support

9.1 Warranty Information

DRVETION provides the following warranty for your electric bike:

- **Electrical Parts (Battery, Motor, Controller, Frame):** 12 months warranty.
- **Basic Parts (Instrument, Front Fork, Speed Regulating Ring, Handle, Crank Gear, Charger, Throttle, Front Axle, Rear Axle, Flywheel, Chain):** 6 months warranty.
- **Freewheel:** 3 months warranty.
- **Front and Rear Lights, Pedals, Tires, Brakes, Consumables:** 1 month warranty.

Note: Tires and brakes are wearing parts and are not covered by the warranty beyond the initial 1-month period for manufacturing defects.

9.2 Customer Support

For technical support, warranty claims, or any questions regarding your DRVETION CT20 Electric Folding Bike, please contact our customer service team. Refer to your purchase documentation for contact details or visit the official GLRDRD/DRVETION website.

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