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> SAMEBIKE CY20 Electric Bicycle User Manual

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SAMEBIKE CY20 Electric Bicycle User Manual

Model: CY20 | Brand: SAMEBIKE

1. INTRODUCTION

Welcome to the SAMEBIKE CY20 Electric Bicycle user manual. This guide provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your new electric bicycle. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.

2. SAFETY INFORMATION

- Always wear a helmet and appropriate safety gear when riding.
- Familiarize yourself with local traffic laws and regulations for electric bicycles.
- Perform a pre-ride inspection before each use, checking brakes, tires, and battery level.
- Do not ride under the influence of alcohol or drugs.
- Avoid riding in adverse weather conditions or on slippery surfaces.
- Ensure the battery is securely locked in place before riding.
- Do not modify the bicycle's electrical system or components.

3. PRODUCT OVERVIEW

The SAMEBIKE CY20 is a 20-inch folding electric bicycle designed for versatility and convenience. It features a robust frame, fat tires, and a powerful electric assist system.

3.1 Key Components



Figure 3.1: Overview of the SAMEBIKE CY20 Electric Bicycle with key components labeled, including the headlight, suspension fork, disc brake, pedal, crankset, motor, flywheel, tail light, rear seat cushion, battery, saddle, folding clasp, display, and brake handle.

3.2 Motor and Performance



Figure 3.2: Illustration of the electric motor system, highlighting the 250W rated power brushless motor, a rated speed of 25 km/h, and 35NM of torque for efficient power delivery.

3.3 Removable Lithium-ion Battery

36V 12AH Lithium-Ion Battery

Upgraded 468Wh Large Capacity Battery Supply Longer Riding



Figure 3.3: The 36V 12Ah (432Wh) removable lithium-ion battery, designed for extended riding range and featuring protection against overcharge, over-discharge, high temperature, overcurrent, and short circuits.

3.4 Handlebar Controls and LCD Display



Figure 3.4: The handlebar features a colorful LCD screen providing real-time e-bike status, including gear, speed, mileage, and battery level. It also includes controls for lights and horn, a 7-speed mechanical shifter, a thumb throttle, and a convenient USB charging port.

3.5 Suspension and Braking



Figure 3.5: The bike is equipped with a front suspension fork for a comfortable ride on various terrains, and dual disc brakes for reliable stopping power.

3.6 Lighting System



Figure 3.6: High brightness LED headlights and tail lights ensure visibility and safety during night riding.

3.7 Folding Design



Figure 3.7: The bicycle features a convenient folding design, allowing for compact storage and easy transport in a car trunk or on public transport.

4. SETUP

Your SAMEBIKE CY20 electric bicycle comes 90% pre-assembled. Follow these steps for final assembly and initial preparation:

1. **Unpacking:** Carefully remove the bicycle from its packaging. Retain packaging for future transport or storage.
2. **Unfolding:** Release the folding clasp and unfold the frame until it locks into place. Secure the handlebar stem in its upright position.
3. **Handlebar Adjustment:** Adjust the handlebar height and angle for a comfortable riding position. Ensure all quick releases are tightened securely.
4. **Seat Post Installation:** Insert the seat post into the frame and adjust the saddle height. Ensure the quick release is firmly closed.
5. **Pedal Installation:** Identify the left (L) and right (R) pedals. Thread the pedals into the crank arms by hand, then tighten firmly with a wrench. Note that the left pedal has a reverse thread.
6. **Initial Battery Charge:** Before your first ride, fully charge the battery. Connect the charger to the battery charging port and then to a power outlet. The indicator light on the charger will change when fully charged.
7. **Tire Inflation:** Inflate tires to the recommended pressure indicated on the tire sidewall.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- To power on the bicycle, press and hold the power button on the LCD display.
- To power off, press and hold the power button again.

5.2 Riding Modes

The SAMEBIKE CY20 offers three riding modes:

1. **Pedal Mode (Normal Bicycle):** Ride the bicycle like a traditional bike without electric assistance.
2. **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. Adjust the assist level using the controls on the handlebar. Higher levels provide more assistance.
3. **Electric Mode (Throttle):** Use the thumb throttle to engage the motor without pedaling. This mode provides full electric power.

5.3 Gear Shifting

The bicycle is equipped with a 7-speed mechanical shifter. Use the shifter on the right handlebar to change gears according to terrain and desired speed. Shift gears smoothly to avoid strain on the drivetrain.

5.4 Braking

The SAMEBIKE CY20 features dual disc brakes. Apply both brake levers gently and evenly to slow down or stop. Avoid sudden, hard braking, especially at high speeds, to maintain control.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your electric bicycle.

- **Battery Care:**
 - Charge the battery regularly, even if not in use, to maintain its health.
 - Avoid completely draining the battery.
 - Store the battery in a cool, dry place when not in use, ideally between 20% and 80% charge.
 - Do not expose the battery to extreme temperatures.

- **Tires:** Check tire pressure before each ride and inflate to the recommended PSI. Inspect tires for wear, cuts, or punctures.
- **Brakes:** Regularly check brake pads for wear and ensure brake levers operate smoothly. Adjust brake cables as needed to maintain proper stopping power.
- **Chain and Drivetrain:** Keep the chain clean and lubricated. Inspect gears for wear or damage.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases to ensure they are tight and secure.
- **Cleaning:** Clean the bicycle with a damp cloth. Avoid using high-pressure washers directly on electrical components.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Bicycle does not power on.	Battery not charged, battery not properly seated, power button not pressed correctly.	Ensure battery is fully charged and securely installed. Press and hold the power button firmly.
Motor not assisting.	Pedal assist level too low, battery low, motor connection issue, brake lever engaged.	Increase pedal assist level. Check battery charge. Ensure no brake levers are squeezed. Inspect motor connections.
Brakes feel weak.	Worn brake pads, loose brake cable, air in hydraulic system (if applicable).	Inspect and replace brake pads if worn. Adjust brake cable tension. If issue persists, consult a professional.
Gears are not shifting smoothly.	Derailleur out of adjustment, dirty/dry chain, bent hanger.	Clean and lubricate the chain. Adjust derailleur. If problem persists, seek professional assistance.

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

8. SPECIFICATIONS

Feature	Detail
Model Name	CY20
Brand	SAMEBIKE
Bike Type	Electric Bicycle, Folding
Wheel Size	20 Inches
Tire Type	Fat Tire (20*2.35 inch)
Battery	36V 12Ah Lithium-ion (432 Wh)
Motor Power	250W Brushless Motor
Max Speed	25 km/h (Rated)

Feature	Detail
Torque	35 NM
Range	60-110 KM (depending on assist level, terrain, rider weight)
Gears	7-Speed (Trigger Shifter)
Braking System	Dual Disc Brakes
Suspension	Front Suspension Fork
Special Features	Folding, Portable, Removable Battery, LCD Display, LED Lights
Wheel Material	Steel Alloy
Included Components	Vegetable basket, bell, reflectors

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The SAMEBIKE CY20 Electric Bicycle comes with a **1-year limited warranty**. This warranty covers manufacturing defects in materials and workmanship. Please refer to the warranty card included with your purchase for full terms and conditions. Keep your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact SAMEBIKE customer support. Contact information can typically be found on the manufacturer's website or through your point of purchase.