

SAMEBIKE M20

SAMEBIKE Peak Electric Dirt Bike

INSTRUCTION MANUAL

1. Product Overview

The SAMEBIKE M20 electric dirt bike is designed for adults seeking a light, fast, simple, and safe means of transportation. It combines the robust features of a motorcycle with the convenience of an electric bicycle, making it suitable for various terrains including snow, sand, mountains, and city roads.

This model is equipped with powerful dual motors, each providing 2000W peak power and 70Nm torque, totaling 4000W for strong climbing ability and a top speed of 37 mph. It features two large capacity 48V 18Ah detachable lithium-ion batteries, offering a total capacity of 36Ah, which translates to a range of 68-80 miles in all-electric mode and 100-136 miles in pedal-assisted mode.

The M20 ensures a comfortable and safe ride with its full suspension system, including a front hydraulic double shoulder shock lockable fork and a 650lb FASTACE rear hydraulic + coil shock. Dual hydraulic disc brakes provide quick and smooth stopping power. Additional features include a multi-functional LCD color display, a USB charging port, mudguards, and an electronic horn.



Figure 1: The SAMEBIKE M20 Electric Dirt Bike, showcasing its robust design and forest green finish.

2000W POWERFUL MOTOR



37 MPH
TOP SPEED



4000 W
PEAK POWER



40°
GRADEABILITY

Figure 2: Illustration of the 2000W powerful motor, highlighting its capability for high speed and strong climbing ability.



Figure 3: Depiction of the dual 48V 36AH battery system, emphasizing its large capacity for extended range.

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Video 1: An introductory video showcasing the SAMEBIKE M20 Vintage Electric Bicycle, highlighting its design and features.

2. Setup & Assembly

The SAMEBIKE M20 electric bike arrives 85% pre-installed. The remaining assembly steps are straightforward and can be completed by following the instructions below or by watching the provided installation video.

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Video 2: Detailed installation guide for the SAMEBIKE M20-I vintage electric bike, covering unpacking and assembly steps.

2.1 Unpacking

Carefully open the packaging and remove all components. Ensure all parts listed in the user manual are present. The

main components typically include:

- User Manual
- Power Charger
- Front Fender
- Quick Release Lever
- Tool Kit
- Pedals (Left and Right)
- Headlight
- Front Tire (pre-installed on fork)

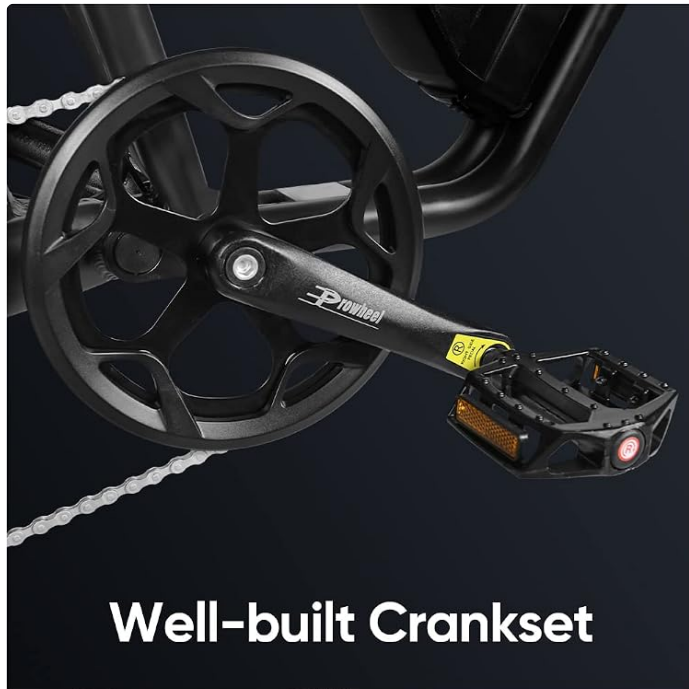


Figure 4: Diagram illustrating the main components of the SAMEBIKE M20 electric bike.

2.2 Adjust Handlebar and Stem

Loosen the bolts on the handlebar stem using the provided Allen wrench. Position the handlebar to your desired riding angle and ensure it is centered. Tighten the bolts securely to prevent movement during operation.

2.3 Assemble Front Fender

Attach the front fender to the front fork using the provided screws and tools. Ensure it is securely fastened and aligned with the wheel to prevent splashing.

2.4 Install Front Wheel

Carefully lift the front of the bike. Align the front wheel with the fork dropouts, ensuring the brake rotor slides correctly into the brake caliper. Insert the quick release skewer through the wheel hub and tighten it securely. Double-check that the wheel spins freely and the brake operates correctly.

Four-piston Hydraulic Brakes

Shorter braking distance more sensitive and safer

4-piston Hydraulic Brake





Sensitive Braking



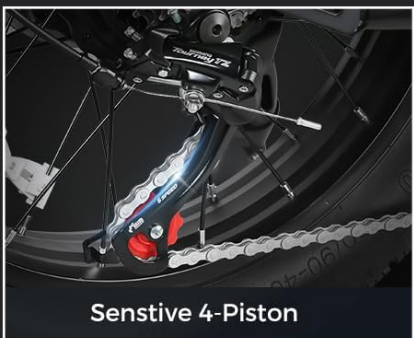
Less Hand Fatigue

Normal Hydraulic Brake



Manchanical Brake





Sensitive 4-Piston



180mm*3.0T Brake Pads

Figure 5: Close-up of the four-piston hydraulic brakes, essential for safe and responsive stopping.

2.5 Assemble Headlight

Mount the headlight to the designated bracket on the front fork or handlebar. Connect the headlight cable to the corresponding port on the bike's wiring harness. Ensure all connections are secure.

2.6 Install Pedals

Identify the left ("L") and right ("R") pedals. The "R" pedal is installed on the crank with the chainring, and the "L" pedal is opposite to the crankset. Screw the pedals into their respective crank arms. The right pedal tightens clockwise, and the left pedal tightens counter-clockwise. Use a wrench to ensure they are firmly secured to prevent loosening during riding.

3. Operating Instructions

Familiarize yourself with the bike's controls and functions before your first ride.

3.1 Powering On/Off

To power on the bike, long press the "POWER" button on the control panel. The LCD display will illuminate. To power off, long press the "POWER" button again.



Figure 6: The intelligent color display showing various controls and indicators such as thumb throttle, headlight, hydraulic brake lever, electronic horn, non-slip grip, and Shimano 7-speed shifter.

3.2 Adjusting PAS Level

Use the "+" or "-" buttons on the control panel to switch between different Pedal Assist System (PAS) levels. Higher PAS levels provide more motor assistance.

3.3 Headlight Operation

Long press the "LIGHT" button to turn the headlight on or off.

3.4 Assist Pushing Mode

Long press the "-" button to turn on/off the Assist pushing mode, which provides low-speed assistance for walking the bike.

3.5 Pure Electric Mode

Press and hold the thumb throttle to engage the pure electric mode, allowing the bike to move without pedaling.

3.6 Brake Light Function

Press either brake lever, and the rear brake light will automatically illuminate, signaling your braking action to others.

3.7 Setting Display Password

The 81F display allows for password protection. Refer to the video below for detailed instructions on how to set or reset the password.

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Video 3: Instructions on how to set the password for the 81F display on your SAMEBIKE electric bike.

3.8 Removing Speed Limit

For advanced users and in areas where legally permitted, the speed limit can be adjusted. Follow the instructions in the video below carefully.

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Video 4: A guide demonstrating how to remove the speed limit on your SAMEBIKE electric bike.

4. Maintenance

Regular maintenance ensures the longevity and optimal performance of your SAMEBIKE M20.

4.1 Battery Removal and Charging

The dual 48V 18Ah batteries are detachable for convenient charging. Use the provided key to unlock and remove the battery. Connect the power charger to the battery and a power outlet. The indicator light on the charger will show the charging status (red for charging, green for fully charged).

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Video 5: Demonstrates the process of removing and charging the battery for the SAMEBIKE M20 electric bike.

4.2 General Care

- **Cleaning:** Regularly clean the bike with a damp cloth. Avoid high-pressure water jets directly on electrical components.
- **Tire Pressure:** Check tire pressure before each ride. Maintain recommended pressure (20 PSI / 140 kPa / 1.4 BAR) for optimal performance and safety.

- **Brake Checks:** Periodically inspect brake pads for wear and ensure brake levers provide firm and responsive braking. Adjust or replace as needed.
- **Chain Lubrication:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **Fastener Inspection:** Check all bolts and fasteners regularly to ensure they are tight, especially after off-road riding.

5. Troubleshooting

This section addresses common issues you might encounter with your SAMEBIKE M20. For more complex problems, please contact customer support.

Problem	Possible Cause	Solution
Bike does not power on	Battery is low or not properly seated; power button not pressed long enough.	Charge the battery fully. Ensure the battery is securely locked in place. Long press the power button.
Motor not engaging in PAS mode	PAS level is 0; loose motor cable connection; brake lever engaged.	Increase PAS level using "+" button. Check motor cable connections. Ensure brake levers are fully released.
Display shows error code	Sensor malfunction; wiring issue.	Refer to the user manual for specific error code meanings. Check all visible wiring connections. If persistent, contact support.
Cannot unlock display (password issue)	Incorrect password entered; forgotten password.	Carefully re-enter the password. If forgotten, refer to Video 3 in the Operating Instructions section for password reset steps.
Brakes feel spongy or ineffective	Worn brake pads; air in hydraulic lines; loose caliper.	Inspect and replace worn brake pads. If hydraulic, bleeding may be required (professional service recommended). Tighten caliper bolts.

6. Specifications

Feature	Detail
Bike Type	Electric Bike
Age Range (Description)	Adult
Brand	SAMEBIKE
Model Name	M20
Number of Speeds	7
Color	Forest Green

Feature	Detail
Wheel Size	20 Inches
Frame Material	Aluminum
Suspension Type	Dual
Special Feature	LCD-Display
Included Components	Horn
Brake Style	Disc
Power Source	Battery
Wattage	4000W (Peak)
Lithium Battery Energy Content	864 Watt Hours (per battery, total 1728Wh)
Maximum Weight Recommendation	330 lbs
Assembly Required	Yes (85% pre-assembled)

6.1 Size Guide

Brand Size	Rider Height (in)	Wheel Size (in)	Weight Capacity (lb)
20 inches	66 - 86	20	330



Figure 7: Detailed dimensions of the SAMEBIKE M20, including bike height, seat height, wheelbase, and total length, along with recommended rider height and max load capacity.

7. Warranty & Support

The SAMEBIKE M20 Electric Dirt Bike comes with a **1 Year Limited Warranty**. For any questions, technical assistance, or warranty claims, please contact SAMEBIKE customer support. Contact information can typically be found in the included user manual or on the official SAMEBIKE website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question