

## Cyrusher Ranger 2.0 White (ranger 007)

# Cyrusher Ranger 2.0 White Electric Bicycle User Manual

Model: Ranger 2.0 (ranger 007) | Brand: Cyrusher

## 1. INTRODUCTION

Welcome to the user manual for your new Cyrusher Ranger 2.0 White Electric Bicycle. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your e-bike. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.

### Safety Guidelines

- Always wear a helmet and appropriate safety gear when riding.
- Familiarize yourself with local laws and regulations regarding electric bicycles.
- Perform a pre-ride inspection before each use, checking brakes, tires, and battery level.
- Do not operate the e-bike under the influence of alcohol or drugs.
- Avoid riding in adverse weather conditions or on excessively rough terrain if you are not experienced.

## 2. PRODUCT COMPONENTS OVERVIEW

Understand the key components of your Cyrusher Ranger 2.0 electric bicycle.

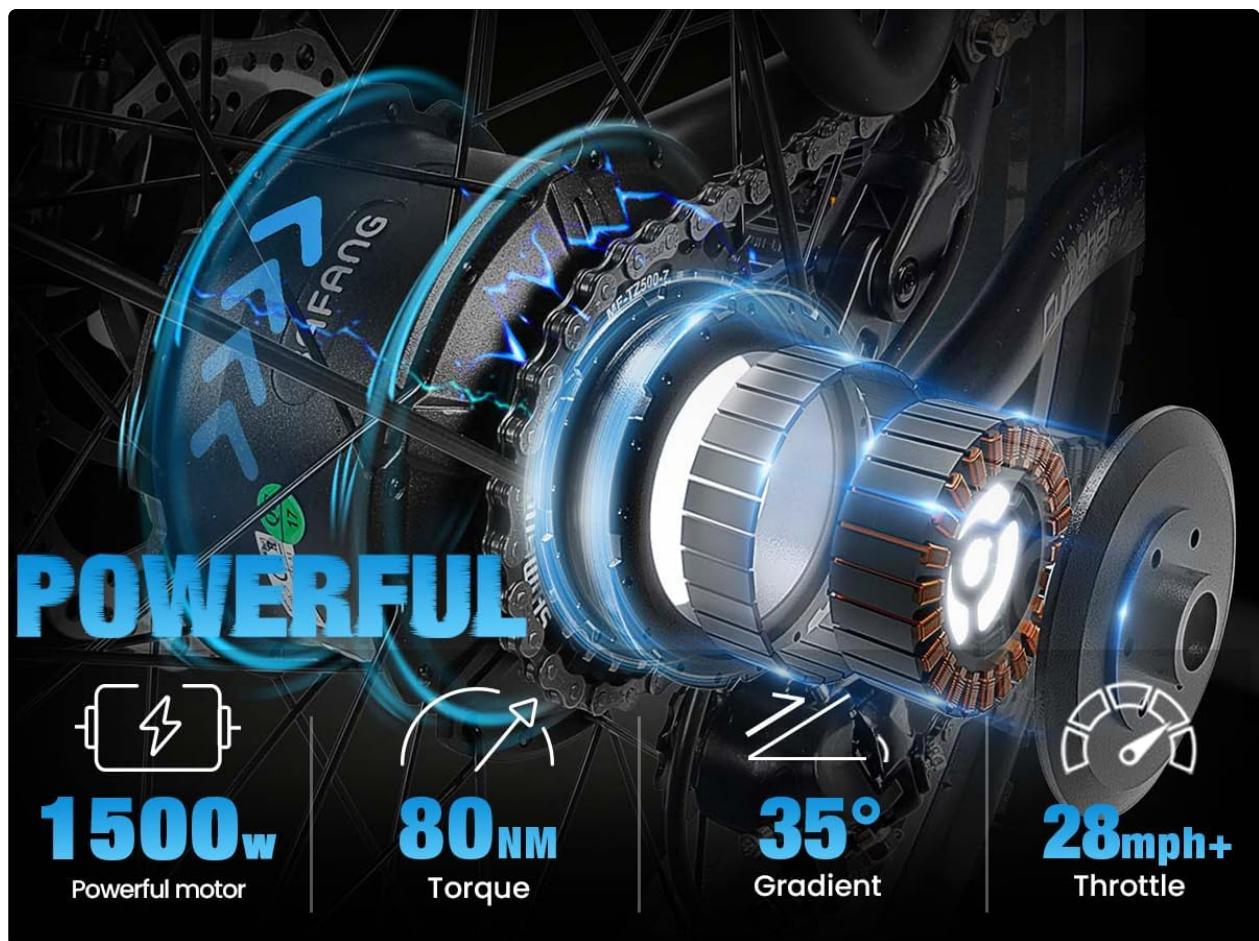


Overview of the Cyrusher Ranger 2.0 electric bicycle with key components labeled, including handlebar, frame, motor fork, pedals, rim, crank set, and kickstand.

## Key Features and Components:

- **Frame:** Constructed entirely from durable aluminum alloy, reducing weight to 40.6 kg while supporting a maximum load of 150 kg.
- **Motor:** Equipped with a powerful 1500W motor, delivering 80Nm of torque, capable of handling gradients up to 35 degrees and reaching speeds of 28mph+ with throttle.





Detailed view of the powerful 1500W motor and its specifications.

- **Battery:** Features a 52V 20Ah battery, providing a maximum range of up to 80 miles on a single charge. This significantly extends range compared to 48V 10Ah or 36V 10Ah batteries.





Illustration of the 52V 20Ah battery and its impressive 80-mile range.

- **Suspension:** High-performance suspension system with damping adjustment (hard/soft) and suspension lockout (ON/OFF). Includes a robust motorcycle fork and air shock absorber for a comfortable ride on various terrains.



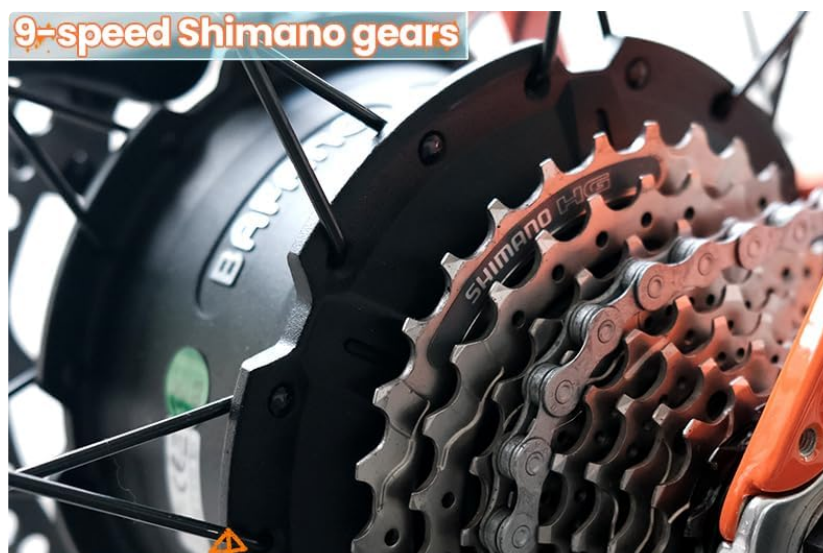
Close-up of the advanced suspension system, highlighting the motorcycle fork and air shock absorber.

- **Brakes:** Equipped with 4-Piston Hydraulic Disc Brakes (Tektro) for superior stopping power. Brake rotors are 203x2.3mm, offering enhanced performance over 180x1.8mm systems.



Detailed view of the Tektro 4-Piston Hydraulic Disc Brake system, emphasizing its components and improved braking distance.

- **Gears:** Features a 9-speed Shimano gear system for smooth and efficient shifting across different terrains.



**Cassette  
 Shifter**





Close-up of the 9-speed Shimano cassette and shifter.

- **Display:** A bright LCD screen provides clear visibility of riding data, including speed, battery level, trip distance, riding time, and total distance traveled. It also shows the 5 levels of pedal assistance.



The vibrant LCD display showing various riding metrics and assistance levels.

- **Lighting:** High-brightness LED headlights illuminate a wide area for optimal visibility. The taillight features a highly visible warning design, recognizable even from a distance, effectively reducing the risk of rear-end collisions. Turn signals are also integrated.



Details of the e-bike's lighting system, including the large headlight and integrated turn signals.

- **Torque Sensor:** Features a high-performance torque sensor. The 5-level assist system accurately detects the force applied to the pedals for a natural riding experience, unlike simpler speed sensors.



Comparison illustrating the advanced torque sensor for natural pedal assist.

### 3. INITIAL SETUP

#### Assembly

Your Cyrusher Ranger 2.0 may arrive partially assembled. Follow these general steps for final assembly:

1. Carefully unbox all components and remove packaging materials.
2. Attach the front wheel, ensuring the quick-release skewer is properly secured.
3. Install the handlebars, aligning them correctly and tightening all bolts.
4. Attach the pedals, noting that the left pedal (L) and right pedal (R) have different threads.
5. Adjust the seat post height for a comfortable riding position.
6. Perform a thorough check of all bolts and connections to ensure they are tight and secure.

#### Battery Installation and First Charge

The battery is integrated into the frame and is removable for charging. Ensure the battery is fully charged before your first ride.

- Locate the battery compartment and insert the battery securely until it clicks into place.
- Connect the charger to the charging port on the battery or directly on the bike.
- Plug the charger into a standard wall outlet. The indicator light on the charger will show charging status (usually red for charging, green for fully charged).
- Allow the battery to charge completely. This may take several hours for the initial charge.
- Once fully charged, disconnect the charger.

### 4. OPERATING YOUR E-BIKE

#### Power On/Off

To power on the e-bike, press and hold the power button on the LCD display. To power off, press and hold the same button until the display turns off.

## LCD Display Functions

The bright LCD screen provides real-time riding information:

- **Speed:** Current riding speed.
- **Battery Level:** Indicates remaining battery charge.
- **PAS Level:** Shows the current pedal assist level (1-5). Adjust using the '+' and '-' buttons.
- **Trip Distance:** Distance covered during the current ride.
- **Riding Time:** Duration of the current ride.
- **Total Distance:** Odometer reading.

## Pedal Assist System (PAS) and Throttle Usage

The Ranger 2.0 offers both pedal assist and throttle modes:

- **Pedal Assist:** Select your desired assist level (1-5) using the display controls. The motor will provide assistance as you pedal, based on the torque applied.
- **Throttle:** Use the thumb throttle for instant power without pedaling. This is ideal for quick acceleration or maintaining speed without effort.

## Gear Shifting

The 9-speed Shimano gear system allows you to adjust your pedaling effort to suit different terrains and speeds. Use the shifter on the handlebar to change gears smoothly. Shift down for climbing hills and up for flat terrain or descents.

## Braking System Operation

The 4-Piston Hydraulic Disc Brakes provide powerful and reliable stopping. Apply both brake levers simultaneously for optimal braking performance. Avoid sudden, hard braking, especially at high speeds, to maintain control.

Official video demonstrating the Cyrusher Ranger 2.0 in various off-road riding conditions, showcasing its capabilities and performance.

# 5. MAINTENANCE AND CARE

## Regular Checks

- **Tires:** Check tire pressure before each ride. Refer to the tire sidewall for recommended PSI. Inspect for wear and punctures.
- **Brakes:** Regularly check brake pad wear and ensure brake levers engage smoothly and effectively. Adjust as needed.
- **Chain:** Keep the chain clean and lubricated to ensure smooth shifting and prevent premature wear.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases for tightness.

## Cleaning

Clean your e-bike regularly with a damp cloth and mild soap. Avoid using high-pressure washers directly on



electrical components or bearings.

### Battery Care and Storage

- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for extended periods, charge the battery to approximately 50-70% and recharge every 1-2 months to prevent deep discharge.
- Use only the original charger provided with your e-bike.

## 6. TROUBLESHOOTING GUIDE

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
E-bike does not power on	Battery not installed correctly or discharged. Loose electrical connection.	Ensure battery is fully inserted and charged. Check all visible cable connections.
Motor not assisting	PAS level set to 0. Brake levers engaged. Motor cable disconnected.	Increase PAS level on display. Release brake levers. Check motor cable connection.
Brakes feel weak or spongy	Worn brake pads. Air in hydraulic lines.	Inspect and replace brake pads if worn. Consult a professional for hydraulic brake bleeding.
Gears are not shifting smoothly	Dirty or unlubricated chain. Derailleur out of adjustment.	Clean and lubricate the chain. Adjust derailleur limits and cable tension.

## 7. TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	Cyrusher
Model Name	Ranger 2.0 (ranger 007)
Color	White
Motor	1500W
Torque	80Nm
Battery	52V 20Ah

Specification	Detail
Max Range	Up to 80 miles (pedal-assist mode)
Max Speed	28mph+ (throttle)
Frame Material	Aluminum Alloy
Weight	40.6 kg
Maximum Load	150 kg
Brakes	4-Piston Hydraulic Disc (Tektro)
Gears	9-speed Shimano
Suspension	High-performance, Motorcycle Fork, Air Shock Absorber
Special Feature	Weatherproof
Country of Origin	China



Detailed size chart for the Cyrusher Ranger 2.0, including dimensions like top tube length, seat height, wheelbase, and recommended rider height (170-200 cm).

## 8. WARRANTY AND SUPPORT

### Warranty Information

Your Cyrusher Ranger 2.0 electric bicycle comes with a **1-year warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

For potential returns, please keep the original packaging for 30 days from the date of receipt.

### Customer Support

For technical assistance, warranty claims, or any other inquiries, please contact Cyrusher customer support through



their official website or the contact information provided with your purchase. Always provide your model number (ranger 007) and purchase details when seeking support.