

BURCHDA RX80

BURCHDA RX80pro AWD Electric Fat Tire Bike User Manual

Model: RX80

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, assembly, and maintenance of your BURCHDA RX80pro AWD Electric Fat Tire Bike. Please read this manual thoroughly before your first ride and retain it for future reference.

2. SAFETY INFORMATION

Always prioritize safety when operating your electric bicycle. Failure to follow safety guidelines can result in serious injury or damage to the product.

- Always wear a helmet and appropriate safety gear.
- Familiarize yourself with local traffic laws and regulations for electric bicycles.
- Perform a pre-ride inspection before each use, checking brakes, tire pressure, and battery level.
- Do not operate the bike under the influence of alcohol or drugs.
- Be aware of your surroundings and ride defensively.
- Avoid riding in extreme weather conditions or on excessively slippery surfaces.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all components are present:

- BURCHDA RX80pro Electric Fat Tire Bike (90% pre-assembled)
- Battery Charger
- Assembly Tools
- User Manual
- Fenders
- Basket

- Rear Rack

4. SETUP AND ASSEMBLY

Your BURCHDA RX80pro bike arrives approximately 90% pre-assembled. The remaining assembly steps are straightforward and can be completed using the included tools and instructions.

1. **Unpacking:** Carefully remove the bike and all components from the packaging.
2. **Handlebar Installation:** Attach and secure the handlebars to the stem.
3. **Front Wheel Installation:** Install the front wheel, ensuring it is properly aligned and secured.
4. **Pedal Installation:** Attach the pedals. Note that pedals are typically marked 'L' for left and 'R' for right, and the left pedal has a reverse thread.
5. **Seat Post and Saddle:** Insert the seat post with the saddle attached into the frame and adjust to a comfortable height.
6. **Accessory Installation:** Install the fenders, basket, and rear rack as desired.
7. **Brake Adjustment:** **Crucially, inspect and adjust the hydraulic disc brakes. Ensure brake pads do not rub and provide firm, responsive stopping power.**
8. **Tire Inflation:** Inflate tires to the recommended pressure indicated on the tire sidewall.



Figure 4.1: The BURCHDA RX80pro Electric Fat Tire Bike with included accessories. The bike is largely pre-assembled, requiring minimal final setup.



Figure 4.2: An assembled BURCHDA RX80pro bike, ready for use. Final adjustments like seat height and brake checks are essential before riding.

5. COMPONENTS OVERVIEW

The BURCHDA RX80pro is equipped with advanced features for enhanced performance and rider comfort.

- **Dual Motor System:** Features front and rear drive systems, allowing for switchable front-wheel drive, rear-wheel drive, or all-wheel drive (AWD) modes. Each motor provides up to 95 N-m of torque.
- **7-Speed Transmission:** A Shimano 7-speed gear system provides versatile shifting for various terrains.
- **48V 20Ah Removable Battery:** Integrated, waterproof, and dustproof lithium-ion battery for extended range.
- **Hydraulic Disc Brakes:** Front and rear hydraulic disc brakes with motor power cut-off for rapid and stable stopping.
- **Dual Shock Absorption System:** Gold Double Shoulder Speed Shock front fork and a Soft-Tail rear suspension for a comfortable ride over varied terrain.
- **Yolin Color LCD Display:** Provides real-time information including total mileage, battery level, current speed, and assist levels (1-5).
- **26" x 4.0 Fat Tires:** Large tires designed for improved grip and traction on challenging surfaces like sand, snow, or

mountain trails.



Figure 5.1: Rear view of the bike, highlighting the rear motor, disc brake, and suspension system.



Figure 5.2: The integrated 48V 20Ah lithium-ion battery, designed for water and dust resistance, enhancing range and stability.

Color LCD display

Multi functional display, everything in control



Battery
level

KM/h
MPH

Unit
switching



Cruise
control



IP65
waterproof



Error code
display



Figure 5.3: The Yolin Color LCD display, showing battery level, speed, and other ride data. It is IP65 waterproof.



Hydraulic brake

Fast braking response, comfortable braking feel,
and short braking distance

Figure 5.4: The hydraulic disc brake system, providing fast and stable braking with a motor power cut-off function.



Figure 5.5: The dual shock absorption system, featuring a front fork with 114mm travel and a rear soft-tail suspension for enhanced comfort.



Figure 5.6: The Shimano 7-speed transmission system, allowing for smooth gear changes across various riding conditions.

6. OPERATING INSTRUCTIONS

Understand the various modes and controls to maximize your riding experience.

6.1 Riding Modes

The bike offers three distinct riding modes:

- **Pure Electric Mode:** The motor provides full power without pedal assistance. Control speed using the throttle.
- **Pedal Assist Mode:** The motor provides assistance as you pedal. The level of assistance can be adjusted via the display.
- **Manual Mode:** Ride the bike like a traditional bicycle, using only pedal power. The electric system is disengaged.

6.2 Display Functions

The Yolin color LCD display provides critical ride information:

- **Total Mileage:** Displays the total distance traveled.
- **Battery Level:** Indicates the remaining battery charge.
- **Current Speed:** Shows your real-time speed.
- **Assist Levels (1-5):** Allows you to select the desired level of motor assistance in Pedal Assist Mode.

Buttons located near the left grip control the electric mode and power assist levels.

6.3 Shifting Gears

Use the 7-speed Shimano shifter to change gears according to terrain and desired speed. Shift smoothly to avoid strain on the drivetrain.

6.4 Braking System

The hydraulic disc brakes are equipped with a motor cut-off function. When the brake levers are engaged, power to the motor is immediately cut, ensuring quick and safe stopping. Apply both brakes simultaneously for optimal stopping power.

7. BATTERY INFORMATION

The BURCHDA RX80pro is powered by a 48V 20Ah lithium-ion battery, designed for durability and performance.

- **Capacity:** 48V 20Ah, providing an estimated range of approximately 50 kilometers on a single charge.
- **Removable Design:** The battery is removable for convenient charging and storage.
- **Protection:** Integrated housing ensures water and dust resistance (IP56 rating).
- **Charging:** Use only the provided charger. Connect the charger to the battery, then to a power outlet. The charging indicator will show charging status.
- **Range Variation:** Actual battery range may vary based on factors such as rider weight, speed, temperature, wind, tire pressure, terrain, and incline.

8. MAINTENANCE

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

- **Brakes:** Regularly inspect brake pads for wear and replace them as needed. Check brake fluid levels and ensure proper function of hydraulic lines.
- **Tires:** Maintain correct tire pressure as indicated on the tire sidewall. Inspect tires for wear, punctures, or damage.
- **Chain and Drivetrain:** Keep the chain clean and lubricated. Check for wear on the chain, cogs, and derailleur.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases to ensure they are securely tightened.
- **Battery Care:** Store the battery in a cool, dry place. Avoid fully discharging the battery for extended periods. Charge regularly, even if not in use.
- **Cleaning:** Clean the bike with a damp cloth. Avoid using high-pressure washers directly on electrical components.

9. TROUBLESHOOTING

This section addresses common issues you might encounter.

- **Bike Not Powering On:** Check if the battery is properly seated and charged. Ensure all electrical connections are secure.
- **Motor Not Assisting:** Verify that the pedal assist level is set above zero on the display. Check if the brake levers are fully released, as they cut motor power.

- **Brakes Squealing or Ineffective:** Inspect brake pads for wear or contamination. Adjust brake calipers if necessary. Consult a professional if issues persist.
- **Display Not Working:** Check battery connection and ensure the display cable is securely connected.
- **Unusual Noises:** Stop riding immediately and inspect the source of the noise. Check for loose components, rubbing parts, or drivetrain issues.

For complex issues, it is recommended to contact customer support or a qualified bicycle mechanic.

10. SPECIFICATIONS

Feature	Specification
Brand	BURCHDA
Model Number	RX80
Age Range	Adult
Bike Type	Fat Tire, Mountain Bike
Frame Material	Aluminum
Wheel Size	26 Inches
Tire Size	26" x 4.0
Number of Speeds	7
Suspension Type	Full Suspension (Dual Shock)
Brakes	Hydraulic Disc
Power Source	Electric Motor
Battery	48V 20Ah Lithium-ion
Motor Torque	2 x 95 N·m (Dual Motor)
Waterproof Rating	IP56
Special Features	Digital Display, Odometer, Multiple Speed Modes
Recommended Use	Gravel, Snow, Trail
Included Components	Fenders, Basket, Rear Rack

11. WARRANTY AND SUPPORT

BURCHDA provides the following warranty for the RX80pro Electric Fat Tire Bike:

- **Frame:** 1-year warranty
- **Motor:** 6-month warranty
- **Battery:** 6-month warranty

If you have any questions or require assistance with your product, please do not hesitate to contact BURCHDA customer support. Refer to your purchase documentation for specific contact details.

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