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› MACFOX X1S EL-R20S Electric Bike User Manual

## MACFOX EL-R20S

# MACFOX X1S Electric Bike User Manual

Model: EL-R20S

## 1. INTRODUCTION

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This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your MACFOX X1S electric bike. Please read this manual thoroughly before your first ride to ensure proper usage and to maximize your riding experience. The MACFOX X1S is designed for daily commuting and recreational riding, featuring a 750W peak power motor, 20"x4" fat tires, and dual hydraulic brakes.



Figure 1: MACFOX X1S Electric Bike (Black, Dual Batteries version).

## 2. SAFETY GUIDELINES

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Your safety is paramount. Adhere to the following guidelines:

- **Wear a Helmet:** Always wear a certified helmet and appropriate protective gear (gloves, knee pads, etc.) when riding.
- **Local Regulations:** Familiarize yourself with and obey all local traffic laws and regulations regarding electric bikes, including speed limits and licensing requirements. The MACFOX X1S has a maximum speed of 20 MPH, complying with Class-2 e-bike regulations.
- **Pre-Ride Check:** Before each ride, inspect the brakes, tire pressure, and ensure all bolts, especially the front axle bolts, are securely tightened.
- **UL 2849 Certification:** This electric bike is UL 2849 certified, indicating compliance with electrical system safety standards.
- **Environmental Conditions:** Exercise caution when riding in adverse weather conditions or on challenging terrain.

## 3. PACKAGE CONTENTS

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The MACFOX X1S electric bike package includes:

- MACFOX X1S Electric Bike (partially assembled)
- Battery (additional battery for dual battery version)
- Battery Charger
- User Manual
- Assembly Tools (basic)

**Note:** For the dual battery version, the electric bike and the additional battery are shipped separately in two packages. These packages may arrive at different times. Please ensure you receive both packages before beginning assembly.

## 4. ASSEMBLY

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The MACFOX X1S comes mostly pre-assembled. Final assembly primarily involves attaching the front wheel and handlebars.

### 4.1 Attaching the Front Wheel

1. Carefully remove the bike from its packaging.
2. Position the front fork to align with the front wheel.
3. Insert the front axle through the wheel hub and fork dropouts.
4. Secure the axle nuts firmly using the provided tools. Ensure the wheel spins freely and is centered.

### 4.2 Installing the Handlebars

1. Loosen the bolts on the handlebar stem.
2. Insert the handlebar into the stem, ensuring it is centered and aligned.
3. Tighten the stem bolts evenly and securely. Adjust the angle of the handlebars for comfortable riding.

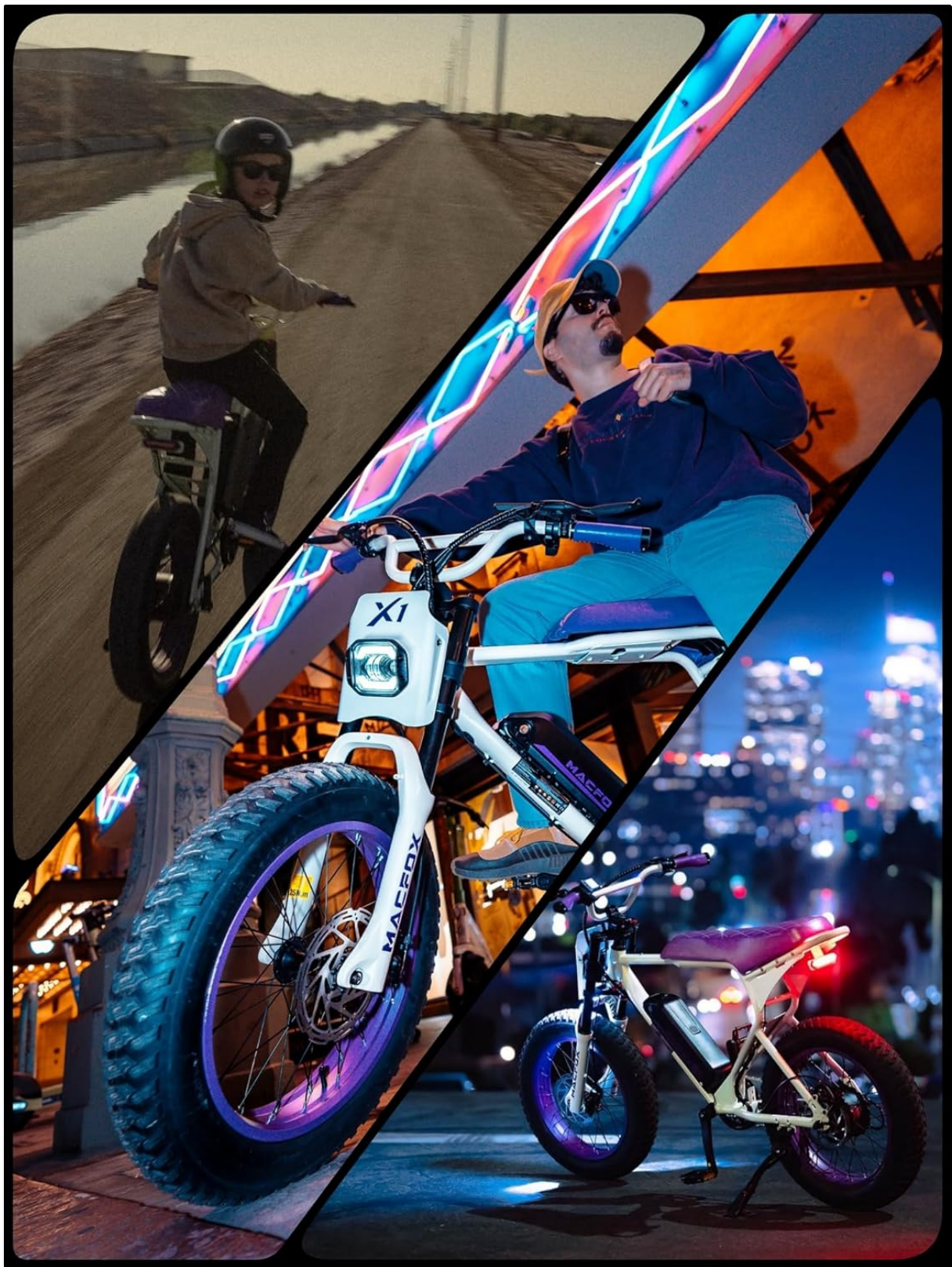


Figure 2: View of the front wheel and handlebar area, illustrating components involved in initial assembly.

## 5. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your MACFOX X1S electric bike:

- **Motor:** 750W peak power brushless motor, providing robust assistance.
- **Battery:** 13Ah battery with UL 2271 certification, offering a range of 28-56 miles (PAS1).
- **Tires:** 20" x 4.0" fat tires designed for stability and traction on various terrains.
- **Brakes:** Dual hydraulic brakes for reliable stopping power.

- **Frame:** Reinforced high-carbon steel frame for durability.
- **Suspension:** Spring front fork for improved ride comfort.
- **Display:** Handlebar-mounted display showing speed, battery level, and mode.

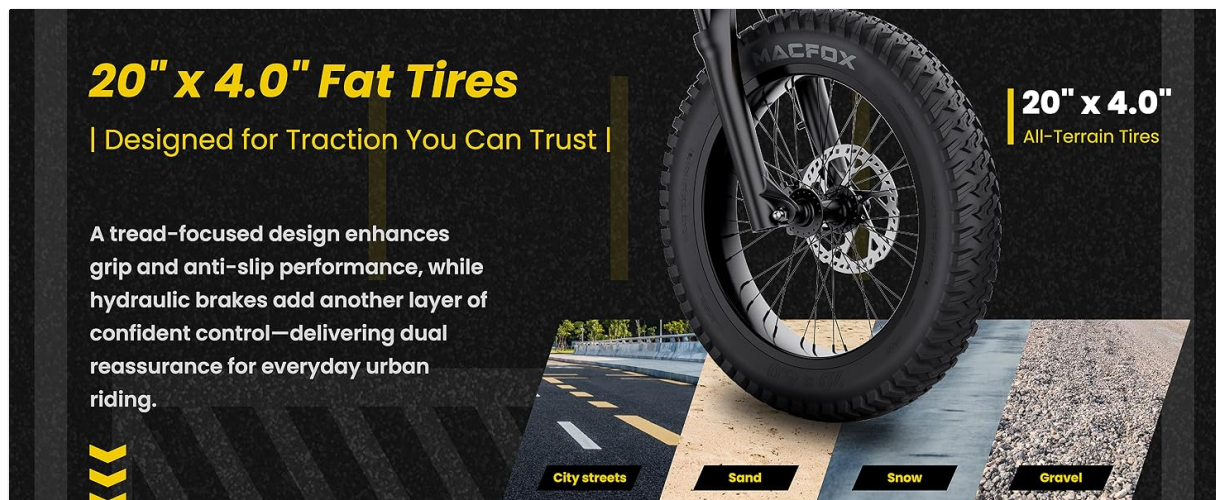


Figure 3: The 20" x 4.0" fat tires provide enhanced grip and stability.



Figure 4: The UL 2271 certified 13Ah battery ensures reliable power and safety.



Figure 5: The 750W peak power motor delivers strong performance for various terrains.



Figure 6: The reinforced high-carbon steel frame provides a stable and durable foundation.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Powering On/Off

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

### 6.2 Understanding the Display

The handlebar-mounted display shows critical riding information:

- **Speed:** Current riding speed.
- **Battery Level:** Indicates remaining battery charge.
- **PAS Level:** Shows the current Pedal Assist System level.
- **Odometer/Trip:** Displays total distance or current trip distance.

### 6.3 Pedal Assist System (PAS)

The PAS provides motor assistance as you pedal. Use the '+' and '-' buttons on the display to adjust the assist level:

- **Mode 1:** Up to 10 MPH (lowest assistance, maximum range).
- **Mode 2:** Up to 15 MPH (medium assistance).
- **Mode 3:** Up to 20 MPH (highest assistance, maximum speed).

### 6.4 Throttle Operation

The twist grip throttle allows you to engage the motor without pedaling. Twist the throttle gently to accelerate. Release the throttle to disengage motor power.

### 6.5 Braking System

The MACFOX X1S is equipped with dual hydraulic brakes. Apply both brake levers simultaneously for effective and controlled stopping. Avoid sudden, hard braking, especially at high speeds or on loose surfaces.

### 6.6 Riding Tips

- Start in a lower PAS mode until you are comfortable with the bike's power.
- Maintain a safe distance from other vehicles and pedestrians.
- Be aware of your surroundings and anticipate potential hazards.

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Video 1: This video demonstrates the MACFOX X1S electric bike in various riding scenarios, showcasing its features and maneuverability.

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Video 2: This video illustrates the MACFOX X1S in a commuting environment, highlighting its suitability for daily travel.

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Video 3: This video shows the MACFOX X1S being ridden in an urban setting, demonstrating its performance and handling.

## 7. BATTERY MANAGEMENT

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### 7.1 Charging the Battery

- Always use the original charger provided with your MACFOX X1S.
- Connect the charger to the battery charging port, then plug it into a standard wall outlet.
- The charger indicator light will typically show red during charging and turn green when fully charged.
- Do not overcharge the battery. Disconnect the charger once charging is complete.

### 7.2 Battery Range

The battery provides a range of 28-56 miles on PAS1, depending on factors such as rider weight, terrain, assist level, and weather conditions.

### 7.3 Battery Care and Storage

- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for an extended period, charge the battery to approximately 50-60% every 2-3 months to maintain its health.

## 8. MAINTENANCE

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

- **Tire Pressure:** Check tire pressure regularly. For 20"x4" fat tires, refer to the recommended pressure on the tire sidewall.
- **Brake Inspection:** Periodically check brake pads for wear and brake levers for proper function. Ensure hydraulic lines are free from damage.
- **Bolt Tightness:** Regularly inspect and tighten all bolts, especially those on the front axle, handlebars, and seat post, to prevent loosening during rides.
- **Cleaning:** Clean the bike with a damp cloth and mild soap. Avoid using high-pressure washers directly on electrical components.
- **Chain Lubrication:** Keep the chain clean and lubricated for smooth operation.

## 9. TROUBLESHOOTING

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This section addresses common issues you might encounter.

### 9.1 Loose Front Axle Bolts

If the front wheel feels loose, immediately stop riding. Inspect the front axle bolts and tighten them securely using appropriate tools. Regular pre-ride checks can prevent this issue.

## 9.2 Motor Not Functioning

If the motor is not providing assistance, check the following:

- Ensure the battery is charged and properly seated.
- Verify all electrical connections are secure.
- Check the display for any error codes.

If the issue persists, contact customer support for assistance.

## 9.3 Reduced Range

If you experience a significant reduction in battery range, consider the following:

- Tire pressure: Underinflated tires can reduce efficiency.
- Riding conditions: Uphill riding, strong headwinds, or frequent stops/starts consume more power.
- PAS level: Higher assist levels deplete the battery faster.
- Battery age: Battery capacity naturally degrades over time.

## 10. SPECIFICATIONS

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Feature	Specification
Model Name	EL-R20S
Bike Type	Electric Bike
Age Range	Adults
Brand	MACFOX
Motor Power	750W Peak
Max Speed	20 MPH (Class-2)
Battery	13Ah (UL 2271 Certified)
Range (PAS1)	28-56 Miles
Wheel Size	20 Inches
Tire Width	4 Inches (Fat Tires)
Frame Material	High Carbon Steel
Suspension Type	Spring Front Fork
Brake Style	Dual Hydraulic Brakes
Number of Speeds	3 (PAS Levels)
Total Length	64.5"
Handlebar Height	38.3"

Feature	Specification
Wheelbase	42.1"
Seat Height	33"
Seat Length	24"
Manufacturer	E-Link Technology Co., Ltd

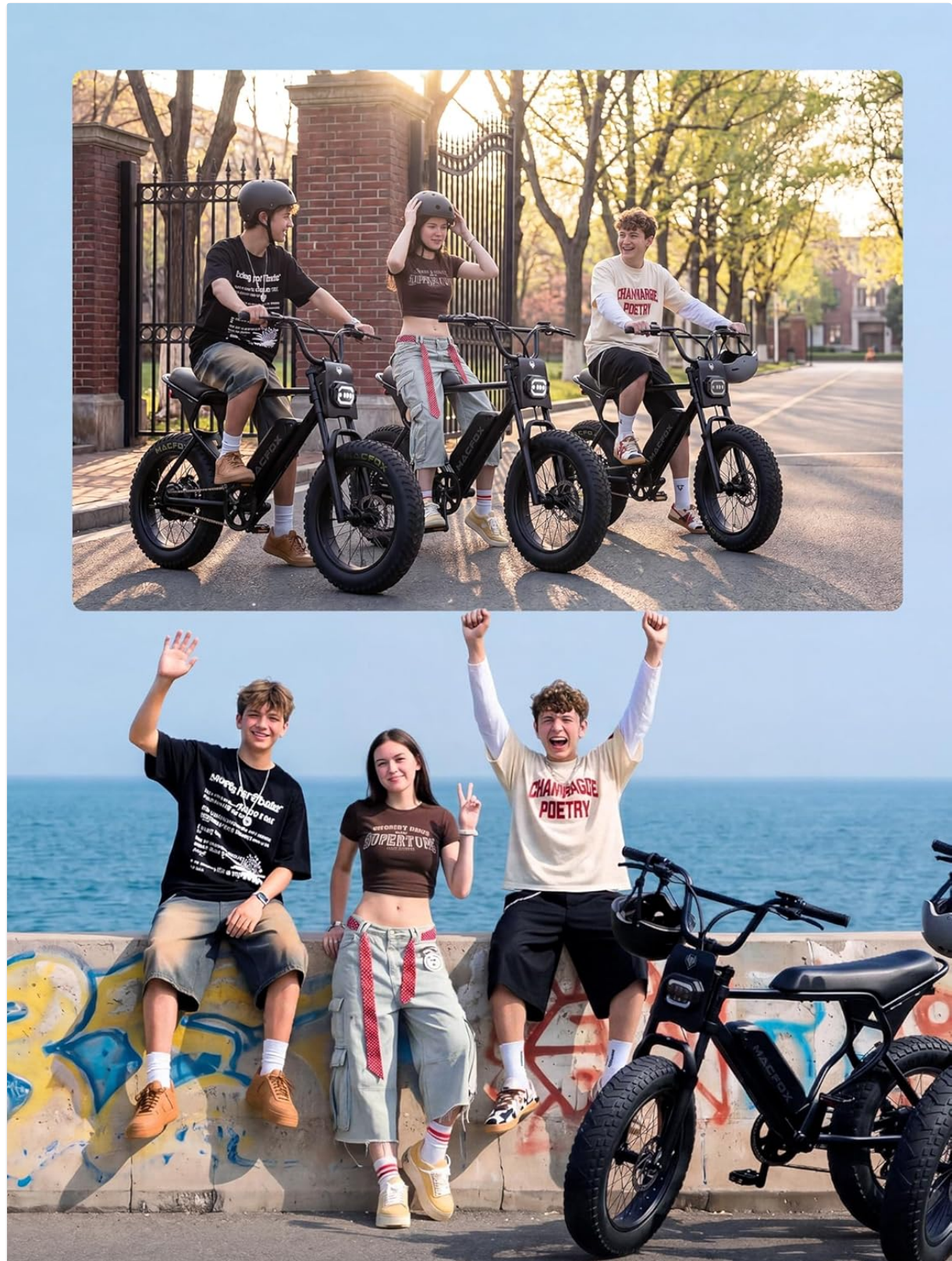


Figure 7: Key dimensions of the MACFOX X1S electric bike.

## **11. WARRANTY AND SUPPORT**

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### **11.1 Warranty Information**

MACFOX offers a one-year warranty on key parts against non-human damage. For warranty claims, please provide video and pictures of the issue for technical analysis.

### **11.2 Returns and Exchanges**

The return or exchange window is within one month from the date the order is generated. If the return is not due to product quality, the customer is responsible for return logistics costs. Returns or exchanges require the original packaging; please retain the original box.

### **11.3 Customer Support**

For any questions, technical assistance, or warranty claims, please contact MACFOX customer support. Refer to your purchase documentation for specific contact details or visit the official MACFOX store on Amazon.