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isinwheel M10 Pro

isinwheel M10 Pro Electric Bike User Manual

This manual provides detailed instructions for the setup, operation, and maintenance of your isinwheel M10 Pro Electric Bike.

1. INTRODUCTION

The isinwheel M10 Pro is a versatile electric bike designed for both urban commuting and off-road adventures. Featuring a powerful motor, fat tires, and a robust frame, it offers a balanced riding experience. This manual will guide you through the essential steps to ensure safe and optimal use of your electric bike.



Image 1.1: The isinwheel M10 Pro Electric Bike, showcasing its robust design and fat tires.

2. KEY FEATURES

- **Compact Design:** 20-inch electric mountain bike offering agile handling.
- **All-Terrain Fat Tires:** 20 x 4.0 inch tires for stability and traction on various surfaces.
- **Powerful Motor:** 750W nominal (1000W peak) hub motor for efficient power delivery.
- **Removable Battery:** 10.4Ah battery with BMS for extended range and protection.
- **7-Speed Drivetrain:** Shimano 7-speed gears for adaptable riding.
- **Front Suspension:** Absorbs shocks for a smoother ride.
- **Dual Disc Brakes:** Provides reliable stopping power in diverse conditions.
- **Integrated Lighting:** 6.6W headlight and taillight for visibility.
- **USB Charging Port:** Convenient port for charging mobile devices.
- **Adjustable Handlebar Stem:** Allows customization for rider height and comfort.

3. ASSEMBLY AND SETUP

3.1 Initial Assembly

The isinwheel M10 Pro arrives approximately 90% pre-assembled. Tools and a manual are included for the final steps. Follow the instructions provided in the included manual for detailed assembly steps.

3.2 Adjusting Handlebar and Seat Height

For optimal comfort and control, adjust the handlebar and seat to your preferred height. The handlebar stem is adjustable to accommodate various rider heights. The seat post can also be adjusted to ensure proper leg extension while pedaling.

Adjustable Handlebar Angle and Seat Height

Recommended Height: **5'3"-6'3"**

Model Height: **173CM**

Load Capacity: **MAX 330 LBS**

Bicycle Weight: **61.7LBS**



Image 3.1: Illustration of adjustable handlebar angle and seat height, showing recommended height ranges and dimensions.

3.3 Quick Release Front Wheel

The front wheel features a quick-release mechanism, allowing for easy removal without tools. This is beneficial for transport or maintenance. To remove, open the quick-release lever, loosen the nut on the opposite side, and carefully lift the wheel from the fork.

4. OPERATING YOUR ELECTRIC BIKE

4.1 LCD Display

The bike is equipped with an LCD display that shows essential riding information, including speed (MPH), battery level, odometer/trip distance, and pedal assist level. Use the '+' and '-' buttons to adjust the pedal assist level.



Image 4.1: Close-up of the LCD display showing speed, battery, and pedal assist level, alongside the integrated USB charging port.

4.2 Pedal Assist and Throttle

The M10 Pro offers 5 levels of pedal assist. Select your desired level using the display controls. The bike also features a half-twist throttle for power on demand, allowing you to accelerate without pedaling.

4.3 Headlight and Horn

Activate the integrated 6.6W headlight for improved visibility during low-light conditions. The bike also includes a horn for alerting others to your presence. Both controls are conveniently located on the handlebar.

4.4 USB Phone Charging Port

A built-in USB port allows you to charge your phone or other small electronic devices while riding, ensuring you stay connected.

Charge on the Go

The display intelligently shows speed, battery bar, and ODO/TRIP, while the built-in USB port keeps phone battery anxiety at bay



Image 4.2: A hand plugging a USB cable into the charging port located near the display on the handlebar.

5. BATTERY INFORMATION

The isinwheel M10 Pro is powered by a 36V 10.4Ah removable and lockable battery. It features a Battery Management System (BMS) for overcharge protection, enhancing safety and battery longevity. A full charge typically takes 3-4 hours.

Removable Battery

36V 10.4AH | Removable | Lockable



Image 5.1: A person demonstrating the removal of the lockable battery from the bike frame.

6. DRIVETRAIN AND BRAKES

6.1 Motor and Gearing

The bike features a 750W nominal (1000W peak) brushless hub motor, providing 65 Nm of motor torque for efficient climbing and acceleration. It is paired with a Shimano 7-speed drivetrain, including a Shimano Tourney TZ derailleur, allowing you to adapt to various terrains and riding conditions.



Image 6.1: Close-up of the rear wheel, highlighting the hub motor and Shimano 7-speed gears.

6.2 Dual Disc Brakes

For reliable stopping power, the M10 Pro is equipped with mechanical disc brakes on both the front and rear wheels. These brakes utilize 160mm rotors and are designed to perform effectively in all weather conditions.



Image 6.2: Visual representation of the mechanical disc brakes and the integrated headlight and taillight for safety.

7. TIRES AND SUSPENSION

7.1 All-Terrain Fat Tires

The 20 x 4.0 inch fat tires provide enhanced traction and stability, making the bike suitable for various terrains including city roads, gravel, sand, and trails. The knobby tread pattern ensures grip, while the tire volume offers additional cushioning.

All-Terrain Ultimate Fat Tire

20"×4.0" Fat Tire — Unstoppable traction, ultra-wide stability and puncture-proof durability



Image 7.1: The M10 Pro electric bike being ridden across different terrains, highlighting its all-terrain fat tires.

7.2 Front Suspension Fork

A front suspension fork is integrated into the bike's design to absorb impacts and vibrations from uneven surfaces, contributing to a more comfortable and controlled ride.

Front Fork Suspension

Providing comfort for a smoother ride



Image 7.2: A rider on the M10 Pro, illustrating the front suspension absorbing an impact from a bump.

8. SPECIFICATIONS

Feature	Detail
Bike Type	Electric Bike

Feature	Detail
Model	M10 Pro
Brand	isinwheel
Motor	750W Nominal (1000W Peak) Brushless Hub Motor, 65 Nm Torque
Battery	36V 10.4Ah Removable, Lockable, BMS Protection
Charge Time	3-4 Hours
Max Speed	22 MPH
Claimed Range	38-55 Miles
Tires	20 x 4.0 Inch Fat Tires (Aozin branded)
Gearing	Shimano 7-Speed with Tourney TZ Derailleur
Brakes	Mechanical Disc Brakes (Fiel branded, 160mm rotors)
Suspension	Front Suspension Fork
Display	LCD (Speed, Battery, Odometer, PAS Level)
Special Features	USB Phone Charge Port, Adjustable Handlebar Stem, Integrated Headlight/Taillight, Horn
Frame Material	Alloy Steel
Item Weight	61.7 Pounds
Load Capacity	MAX 330 LBS
Recommended Rider Height	5'3" - 6'3"

9. MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your isinwheel M10 Pro Electric Bike.

- **Tire Pressure:** Check tire pressure before each ride. Refer to the tire sidewall for recommended PSI.
- **Brake Inspection:** Regularly inspect brake pads and rotors for wear. Ensure brake levers engage smoothly and provide adequate stopping power.
- **Chain Lubrication:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent wear.
- **Battery Care:** Charge the battery regularly, even when not in use, to maintain its health. Avoid fully discharging the battery. Store the battery in a cool, dry place.
- **Fastener Checks:** Periodically check all bolts and fasteners for tightness, especially on critical components like handlebars, wheels, and seat post.
- **General Cleaning:** Clean your bike regularly with a damp cloth. Avoid using high-pressure water jets directly on electrical components.

10. TROUBLESHOOTING

This section addresses common issues you might encounter with your electric bike.

- **Bike Not Turning On:** Check if the battery is properly inserted and charged. Ensure the power button on the battery and display are pressed.
- **Motor Not Assisting:** Verify the pedal assist level on the display is not set to '0'. Check if the brake levers are fully released, as they may cut power to the motor.
- **Reduced Range:** This can be due to low tire pressure, riding in high pedal assist/throttle modes, heavy loads, or cold weather. Ensure proper tire inflation and consider lower assist levels for longer range.
- **Brake Squeal:** Clean rotors and pads. If the issue persists, brake pads may need replacement or adjustment.
- **Unusual Noises:** Inspect the chain, gears, and wheels for any obstructions or loose components.

For issues not covered here, please contact customer support.

11. WARRANTY AND SUPPORT

The isinwheel M10 Pro Electric Bike is covered by a 1-year warranty. For any parts, repairs, or technical assistance, please reach out to our dedicated customer support team. Timely responses and replacement parts are available to ensure your satisfaction.

For support, please refer to the contact information provided with your purchase documentation or visit the official isinwheel website.