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HAPPYRUN G50Pro

HAPPYRUN G50Pro Electric Bike User Manual

Model: G50Pro

1. INTRODUCTION

Thank you for choosing the HAPPYRUN G50Pro Electric Bike. This manual provides essential information for the safe assembly, operation, and maintenance of your new e-bike. Please read this manual thoroughly before your first ride and keep it for future reference.

The HAPPYRUN G50Pro is designed for adults, featuring a powerful 2000W peak brushless motor, a 48V 25Ah removable battery, and 20-inch fat tires suitable for various terrains. It includes a 7-speed Shimano transmission and hydraulic dual disc brakes for a reliable and controlled riding experience.

2. SAFETY INFORMATION

Always prioritize safety when operating your electric bike. Failure to follow safety guidelines may result in serious injury or damage to the bike.

- **Wear a Helmet:** Always wear an approved helmet when riding.
- **Pre-Ride Check:** Before each ride, check tire pressure, brake function, and ensure all fasteners are secure.
- **Obey Traffic Laws:** Follow all local traffic laws and regulations.
- **Visibility:** Use the headlight and taillight, especially during low-light conditions. Utilize turn signals when changing direction.
- **Weather Conditions:** Exercise caution when riding in wet or slippery conditions. Hydraulic brakes offer superior stopping power but require careful handling.
- **Weight Limit:** Do not exceed the maximum weight recommendation of 265 pounds.
- **Battery Safety:** Only use the provided charger. Do not attempt to modify the battery or charger.

3. PACKAGE CONTENTS

Upon unpacking, verify that all the following items are included:

- HAPPYRUN G50Pro Electric Bike (partially assembled)

- 48V 25Ah Removable Lithium-ion Battery
- Battery Charger (54.6V, 2A)
- Front Wheel with Disc Brake Rotor
- Pedals (folding type)
- Headlight Assembly
- Rear Brake Light and Turn Signal Assembly
- Kickstand
- Tool Kit (wrenches, Allen wrenches, socket)
- Tire Pump
- Combination Style Cable Bike Lock
- NFC Cards (for display unlock)
- User Manual

4. SETUP AND ASSEMBLY

The HAPPYRUN G50Pro comes partially assembled. Follow these steps to complete the assembly:

1. **Unpacking:** Carefully remove the bike and all components from the packaging. Retain the original box for one month in case of return.
2. **Install Front Wheel:** Attach the front wheel, ensuring the disc brake rotor is correctly aligned with the caliper. Secure the axle nuts.
3. **Install Pedals:** Attach the folding pedals to the crank arms. Note that pedals are typically marked 'L' for left and 'R' for right.
4. **Install Headlight:** Mount the headlight assembly to the front of the bike. Connect the wiring harness.
5. **Install Rear Light Assembly:** Attach the rear brake light and turn signal assembly to the rear fender. Connect the wiring.
6. **Install Display:** The digital display is typically found in the accessory box. Mount it securely to the handlebars and connect its wiring.
7. **Charge Battery:** Before first use, fully charge the 48V 25Ah battery using the provided 2A charger. This may take approximately 10-12 hours for a full charge from empty.
8. **Tire Pressure:** Inflate the 20" x 4" fat tires to the recommended pressure using the included tire pump. Check the sidewall of the tire for the correct PSI range.
9. **Final Check:** Double-check all bolts, nuts, and quick releases to ensure they are tightened and secure. Test the brakes, lights, and shifter before your first ride.



Image: Fully assembled HAPPYRUN G50Pro Electric Bike.

Dual Hydraulic Disc Brakes

0.1-second quick response. Superior braking in any condition. Enhance safety, stability, and control. Reduce braking distance by 40% compared to mechanical brakes.

Hydraulic Brake



Mechanical Brake



Image: Dimensions of the HAPPYRUN G50Pro Electric Bike.

5. COMPONENTS OVERVIEW

5.1 Motor

The G50Pro is equipped with a 2000W peak brushless hub motor, providing strong acceleration and climbing ability with 80N.m of torque.



Image: Illustration of the 2000W Peak Brushless Motor.

5.2 Battery

The bike features a removable 48V 25Ah lithium-ion battery, offering a range of up to 75+ miles with pedal assist. The removable design allows for convenient charging both on and off the bike.



Image: The 48V 25Ah removable lithium-ion battery.

5.3 Brakes

Equipped with dual hydraulic disc brakes, the G50Pro provides a 0.1-second quick response and reduces braking distance by 40% compared to mechanical brakes, enhancing safety and control.

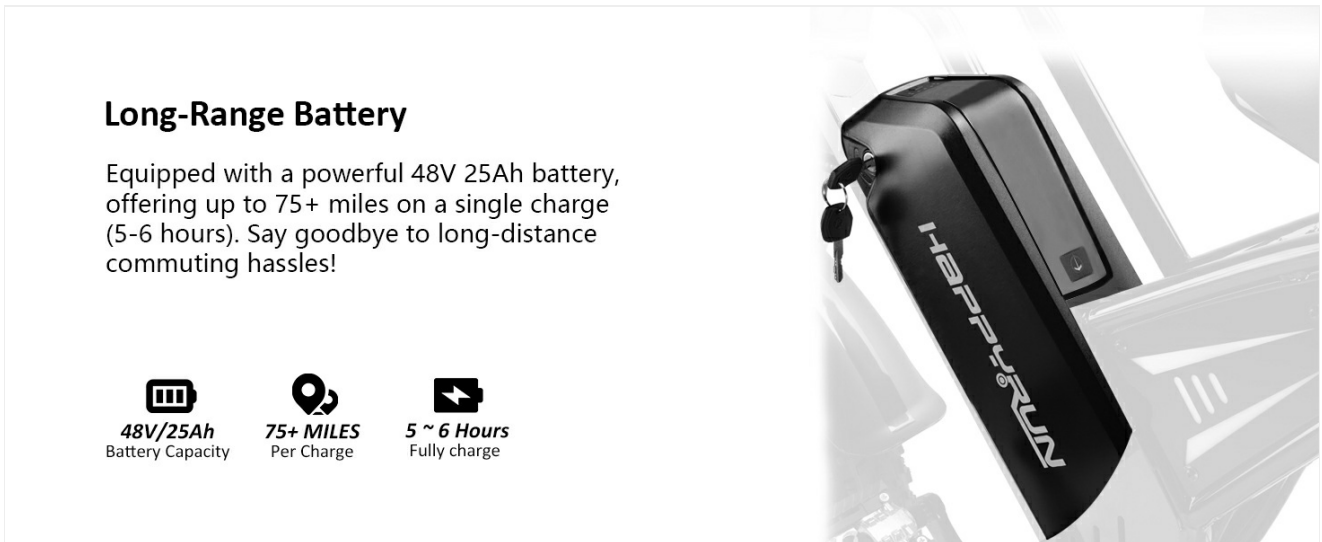


Image: Diagram illustrating dual hydraulic disc brakes.

5.4 Display and Controls

The handlebar features an LED digital display showing speed, battery level, and other ride data. Controls for the headlight, turn signals, and horn are conveniently located on the left grip. The 7-speed Shimano shifter and twist throttle are on the right grip.

2000W Peak Brushless Motor

Equipped with a powerful brushless motor and high torque, it can reach speeds up to 35 mph, giving you a more efficient and thrilling ride.



Image: Overview of the handlebar controls and LED digital display.

5.5 Suspension and Tires

The bike is equipped with a full suspension system, including front fork shock absorbers and a seat shock absorber, combined with 20" x 4" fat tires to smooth out bumps on various terrains.



7-Speed Gear System

Easily switch gears to tackle any terrain, giving you a smooth and adaptable ride.

Twist Throttle Design

Feel the thrill of motorcycle-style acceleration with the easy-to-use twist throttle.

Image: Detail of the front fork shock absorption system.

5.6 Seat

The G50Pro features an ergonomic saddle design with high-density foam, providing comfort for both long and short rides. It is also waterproof.

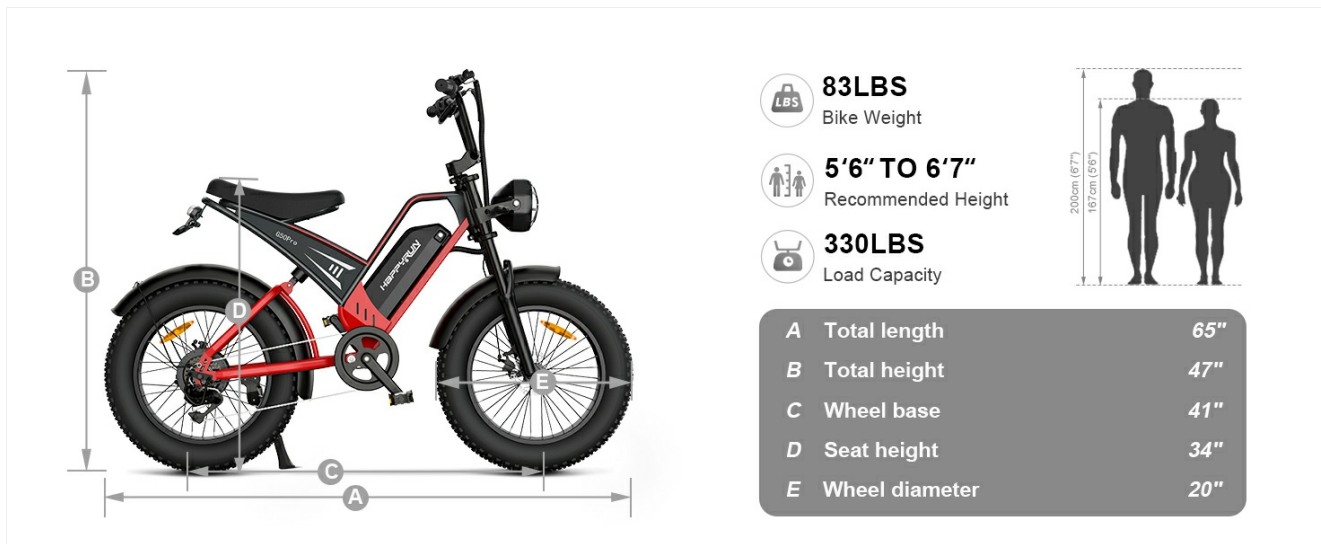


Image: Close-up of the comfortable and waterproof ergonomic saddle.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

To power on the bike, press the 'S' button on the handlebar controls. The display will illuminate. To fully unlock the bike for riding, tap one of the provided NFC cards on the designated NFC area of the display. To power off, press and hold the 'S' button.

6.2 Riding Modes

The G50Pro offers three pedal-assist levels and a throttle-on-demand mode. Use the 'M' button on the display to cycle through pedal-assist levels (1-3). Level 1 provides minimal assistance, while Level 3 provides maximum assistance. The twist throttle allows for electric power without pedaling.

6.3 Shifting Gears

The 7-speed Shimano transmission allows you to adjust your pedaling effort to match terrain and speed. Use the thumb shifter on the right handlebar to change gears. Shift to lower gears for climbing hills and higher gears for flat terrain or downhill riding.

6.4 Lights and Signals

The headlight and taillight can be activated via the controls on the left handlebar. The headlight features a dual-beam design for improved visibility. Use the left/right turn indicator buttons to signal turns. The display will show an indication when turn signals are active.

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Video: Overview of the HAPPYRUN G50Pro Electric Bike features and controls.

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Video: A user demonstrating the HAPPYRUN G50Pro Electric Bike's features.

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Video: A brief display of the HAPPYRUN G50Pro Electric Bike's functionality.

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Video: Demonstration of the HAPPYRUN G50Pro Electric Bike in action.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your HAPPYRUN G50Pro.

- **Battery Care:** Charge the battery regularly, even if not in use, to maintain its health. Avoid completely draining the battery. Store in a cool, dry place.
- **Tire Pressure:** Check tire pressure weekly. Proper inflation improves ride quality and prevents punctures.
- **Brakes:** Inspect brake pads and rotors for wear. Adjust or replace as needed. Ensure brake levers are responsive.
- **Chain:** Keep the chain clean and lubricated to ensure smooth shifting and prevent rust.
- **Fasteners:** Periodically check all bolts and nuts for tightness, especially on critical components like wheels, handlebars, and seat.
- **Cleaning:** Clean the bike with a damp cloth. Avoid using high-pressure water jets directly on electrical components.

8. TROUBLESHOOTING

If you encounter issues with your HAPPYRUN G50Pro, refer to the following common problems and solutions:

- **Bike Not Powering On:** Ensure the battery is fully charged and properly seated. Check if the NFC card has been used to unlock the display after pressing the 'S' button.
- **Motor Not Assisting:** Verify the pedal-assist level is set above 0. Check battery charge. Ensure all electrical connections are secure.
- **Brakes Squealing:** This can be normal for new disc brakes. If persistent, clean rotors and pads, or have them inspected by a professional.
- **Shifting Issues:** Check if the derailleur is bent or if the cable tension needs adjustment. Lubricate the chain.
- **Short Battery Range:** Ensure the battery is fully charged. Riding in higher pedal-assist levels, using the throttle frequently, or riding against strong winds can reduce range.

9. SPECIFICATIONS

| Feature | Specification |
|----------------|---|
| Bike Type | Electric Bike |
| Motor | 2000W Peak Brushless Hub Motor |
| Battery | 48V 25Ah Removable Lithium-ion |
| Max Speed | Up to 35 MPH |
| Max Range | 75+ Miles (Pedal Assist) |
| Charging Time | 5-6 Hours (with 2A charger, approx. 10-12 hours from empty) |
| Transmission | 7-Speed Shimano Derailleur |
| Tires | 20" x 4" Fat Tires |
| Brakes | Dual Hydraulic Disc Brakes |
| Frame Material | Aluminum / Carbon Steel |

| Feature | Specification |
|--------------------------|---|
| Suspension | Full Suspension (Dual) |
| Max Load Capacity | 265 Pounds |
| Bike Weight | 83 Pounds |
| Recommended Rider Height | 5'6" to 6'7" |
| Special Features | Digital Display, NFC Unlock, Headlight, Taillight, Turn Signals |

10. WARRANTY AND SUPPORT

HAPPYRUN offers a **1-Year Warranty** against manufacturer defects. For any queries or support needs, please contact our customer service team. We aim to respond within 24 hours.

For further assistance, please refer to the contact information provided with your purchase or visit the official HAPPYRUN website.