



M3 Off-Road Electric Mini Bike User Manual



Tutorial Video

www.frpmoto.com
csr@frpmoto.com
833-970-3777 (Toll Free)
M-F 8am-5pm PST



Got Question?
Ask Us on WhatsApp

SAVE THESE INSTRUCTIONS

Keep this manual. It contains safety warnings, precautions, assembly, operation, inspection, maintenance and cleaning procedures.

This owner's manual contains important information. Each rider of the mini bike must read this owner's manual thoroughly before riding the mini bike for the first time and must always follow all of the instructions outlined in this manual. This manual must remain with the vehicle if the vehicle is transferred to a new owner. Do not discard this owner's manual as it must be reviewed by each rider prior to his or her operation of the vehicle. If a minor is operating the vehicle, it is the responsibility of the minor's guardian to ensure that the minor understands the information contained in this manual. This manual contains the latest product information available before printing. Due to product improvements or production changes, there could be discrepancies between the information contained in this owner's manual and actual product specifications, the distributor reserves the right to make changes to its products at any time without notice and without obligation to make the same or similar changes to any vehicle previously built or sold.

SAFETY DISCLAIMER



This product shall only be used safely and properly. Before operation, users must carefully read all operating instructions, safety notices and warnings, and ensure the product is operated in a suitable environment.

Prior to each use, users shall inspect the product personally and verify that all components including screws, fasteners, structural parts and electrical components are securely fastened, properly adjusted and functioning normally.

Appropriate safety gear must be worn while riding, including a DOT-certified helmet, goggles, riding boots, gloves and protective clothing to reduce potential risk of injury. Professional off-road riding equipment is highly recommended.

Before operating the vehicle, read and fully understand all warnings, product specifications and safety labels contained in this manual.

SAFETY DISCLAIMER



Make sure you fully understand the performance and functions of the vehicle before use, and possess the riding skills required to handle the vehicle's performance capabilities.

This vehicle is equipped with an automatic wheelie function. You must master basic riding skills before activating this function, and it may only be used within enclosed, flat, open professional venues.

Minors must be under continuous adult supervision when using this product.

The company shall not be liable for any personal injury, property damage, or any other direct, indirect, incidental or consequential losses arising from improper use, unauthorized modification, failure to pre-inspect the product or disregard of safety regulations. All risks caused by improper use shall be borne solely by the user.

⚠ IMPORTANT



Please read before using this product.
READ THIS FIRST!

It is the rider's responsibility to be familiar with and fully comply with all Applicable laws, regulations and provisions governing the operation of this vehicle. Local regulations vary by jurisdiction. FRP dealers shall not be liable for any costs incurred in complying with relevant laws and regulations, nor shall they be responsible for vehicle damage or personal injury resulting from the owner's or operator's failure to abide by Applicable laws and regulations.

» **Vehicle Operation Laws:** It is illegal to operate this off-road vehicle on public streets, roads, and highways. It is illegal to operate this vehicle under the influence of drugs or alcohol, even on private property. Other vehicle operation laws might Apply in your area.

» **Vehicle Title & Registration Laws:** You may be required to Apply for license plates and/or complete vehicle registration for your new mini bike with one or more state and municipal government agencies.

You are solely responsible for completing licensing and/or registration procedures for the mini bike and covering all associated costs. Please safely retain documents containing the serial numbers of the mini mini bike's motor and battery, as well as your purchase invoice. These documents may be required when Applying for vehicle licensing or registration.

» **Vehicle Modification Laws:** To ensure vehicle safety, regulatory compliance and maintain valid warranty, all unauthorized vehicle modifications are prohibited. Certain modifications may render the vehicle non-compliant with Applicable federal, state and local laws, compromise vehicle safety and reliability, and result in warranty voidance.

» **Vehicle Maintenance Laws:** Observe lithium battery disposal and recycling regulations. Used lithium batteries are hazardous waste. Do not dispose of them with household waste. Return to an authorized local battery recycling location.

⚠ CAUTION PROHIBITED ITEMS

WARNING: Never allow children under the age of 16 to ride the mini bike. The mini bike is designed for riders who are 16 or older.

WARNING: Never allow unsupervised or unqualified minors to ride the bike. If the operator of the mini bike is a minor, the rider's guardian is responsible 1) for ensuring that the rider meets the physical and developmental levels necessary to safely ride the bike and 2) for supervising the minor while he or she is riding the mini bike.

WARNING: Always wear protective safety gear while riding the mini bike. Protective safety gear includes but is not limited to, a Department of Transportation-Approved full-face mini bike helmet with a chin strap, goggles, boots, gloves, long riding pants with hip and knee pads, and a long-sleeved riding jersey with elbow, chest, and shoulder pads.

WARNING: Always secure hair while riding the mini bike. Loose hair has the potential to get caught in the mini bike. Always keep your hair tightly secured while operating the bike.

WARNING: Never operate the bike under the influence of alcohol or drugs. The use of alcohol and/or drugs will impair the rider's ability to safely operate the mini bike.

WARNING: Never operate the mini bike with a passenger. The mini bike is designed for one rider at a time.

WARNING: This product is designed for OFF-ROAD use only. Do not ride this vehicle on any public roads, streets, highways, or public rights-of-ways. Operation on public roadways violates local, state, and federal laws and regulations. Riding on public roads may result in dangerous accidents, serious personal injury, property damage, and legal penalties or fines. All public-road operation is prohibited.

WARNING: Never ride the mini bike alone. Because unexpected situations can occur, always ride with others / within reach of assistance and other people who can provide assistance in case of a problem.

WARNING: Never ride the mini bike if it is not in proper riding condition. Always inspect your mini bike before you ride to ensure that it is in proper riding condition. If you have any indication that your mini bike is not running correctly, stop riding immediately. stop riding immediately; do not continue riding.

WARNING: Always exercise good judgment while riding the mini bike. It is the responsibility of the operator of the mini bike to use sound judgment in the operation and use of the vehicle. Ride within your skill level at comfortable speeds. Be cautious of potential hazards and difficult terrain. Exercise extra caution in muddy or wet riding conditions. Always keep both hands and feet on the handlebars and foot pegs. Do not brake or accelerate while turning.

CAUTION PROHIBITED ITEMS

WARNING: Never modify the mini bike or attach after-market accessories.

Modifications and after-market accessories reduce the rider's ability to control and ride the mini bike safely. We are not liable for any damage or injury caused by any after-market accessory.

WARNING: Always perform the necessary maintenance on the vehicle.

Failure to perform necessary maintenance on the vehicle could result in harm or fatal injury to the operator or others.

WARNING: Always exercise caution while servicing the mini bike.

Maintenance work involves exposure to power sources and other hazardous and flammable materials. Fully recognize the risk of injury during servicing, operate in a proper and prudent manner, and wear required protective equipment. Keep away from open flames and water sources. Disconnect the vehicle from the power supply before carrying out any maintenance.

WARNING: Only use the original charger for charging.

Non-original chargers may cause irreversible damage to the battery and pose risks including battery swelling, fire and other hazardous conditions.

WARNING: Keep batteries and chargers out of reach of children.

High voltage from the battery and hot surfaces of the charger pose injury hazards.

COMPLIANCE STATEMENT

FCC COMPLIANCE STATEMENT FCC ID: 2A12O-M1131OT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference;
- (2) This device must accept any interference received, including interference that may cause undesired operation.

 **WARNING:** Changes or modifications not expressly Approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio technician for help.

California Proposition 65 Warning

WARNING

This product can expose you to chemicals including ****Lead****, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.



TABLE OF CONTENTS

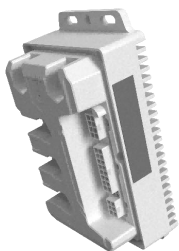
IMPORTANT LABEL LOCATIONS	1
1 VEHICLE INTRODUCTION	3
1.1 Technical Specification	3
1.2 Mini Parts Description	4
2 BEFORE STARTING	7
3 FAST INSTALLATION	8
3.1 Install Handlebar & Headlight	8
3.2 Install Seat	8
3.3 Install Tail Bag	9
3.4 Install Front Wheel	9
3.5 Install Front Brake Caliper	10
3.6 Install Fender	11
3.7 Install the Left Brake Lever and Display	11
3.8 Install Number Plate	12
3.9 Connect the Battery Power Supply	12
4 COMPONENT INTRODUCTION	13
4.1 Display	13
4.2 Custom Horn System	15
4.3 Tail Bag	15
5 FUNCTION INTRODUCTION	17
5.1 Display Setting Functions	17
5.1.1 Power ON & OFF	17
5.1.2 Startup Password Setting	17
5.1.3 Display Brightness Adjustment	18
5.1.4 Vehicle Standby Time Setting	19
5.2 Brake Control Introduction	19
5.3 Light Introduction	20
5.4 Kickstand Power Cut-off	20

TABLE OF CONTENTS

5.5 Phone Charger (USB / Type-C)	21
5.6 Gear Mode Introduction	21
5.7 Auto Wheelie Function Introduction	24
5.8 App Introduction	26
6 BATTERY PRECAUTIONS	27
6.1 Charging Specifications	27
6.2 Discharge & Riding Specifications	27
6.3 Storage Requirements	28
6.4 Disassembly, Physical Protection & Wading Rules	29
6.5 Safety Warnings & Fault Handling	30
6.6 Battery Disposal & Replacement	31
6.7 Additional Transportation & Storage Tips	30
7 PREPARING FOR USE	32
7.1 Inspecting Your Mini Bike	32
7.2 Starting the Mini Bike	33
8 MAINTENANCE & CARE	36
8.1 Periodic Maintenance	36
8.2 Battery Pack	37
8.3 Brake System	37
8.4 Wheels and Tires	40
8.5 Drive Chain	40
9 TROUBLESHOOTING	42
9.1 Electric Mini Bike Troubleshooting	42
9.2 Electric Mini Bike Safety Precautions	42
9.3 Electric Vehicle with NMC Lithium-Ion Battery -Fire Response Procedures	42
9.4 System Warning Messages	44
MORE INFORMATION FROM FRP	46
BARCODE INFORMATION RETENTION	47

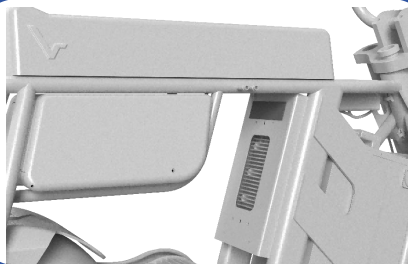
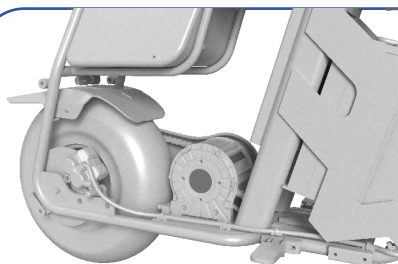
IMPORTANT LABEL LOCATIONS

Battery Pack Specifications
& Warning Labels



Controller Labels

Motor S/N



Frame Nameplate

IMPORTANT LABEL LOCATIONS

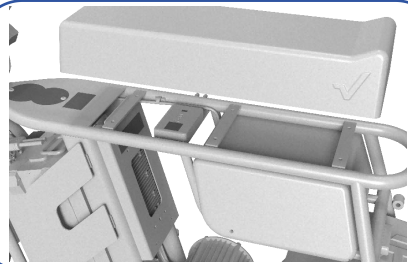
Riding Warning Labels



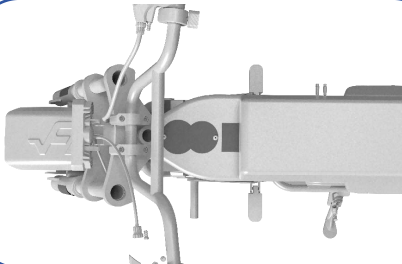
Tire & Chain Labels



IOT Labels & IMEI



365-Day Warranty
Activation Code





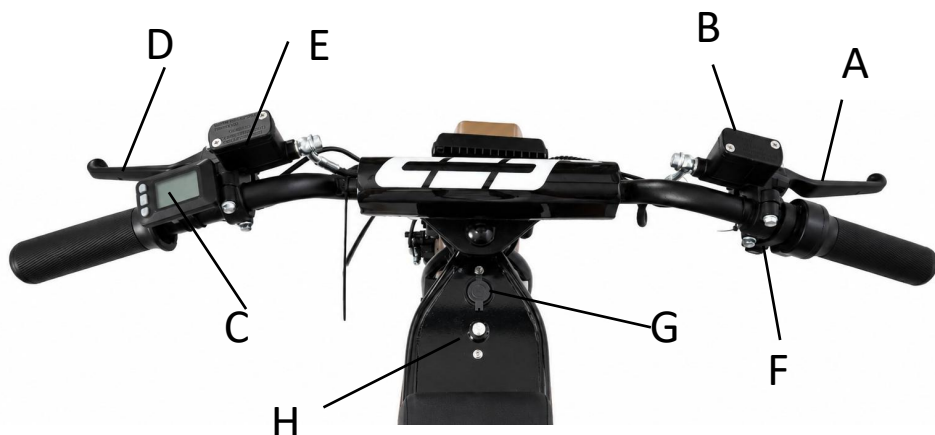
VEHICLE INTRODUCTION

1.1 Technical Specification

Model	FRP M3
Configuration	FRP M3 Gen.1
Overall Dimensions	53.1 × 10.6 × 35.4 in
Minimum Ground Clearance	4.92 in
Seat Height	25.98 in
Curb Weight	121 lbs
Maximum Load Capacity	210 lbs
Front Tire Specification	145/70-6
Rear Tire Specification	145/70-6
Auxiliary Functions	Auto Wheelie + Custom Horn
Wheelbase	38.58 in
Front Fork Travel	40 mm
Powertrain System	PMSM+FOC Control
Rated Power	3kw
Peak Power	4.1kw
Maximum Speed	55 mph
Driving Range	35 miles
Battery Type	NCM Ternary Lithium-ion Battery 57.6V 23.4Ah
Charging Time	3A-9h / 5A-6h
Power Modes	1st Gear / 2nd Gear / 3rd Gear Wheelie / Wheelie Pro

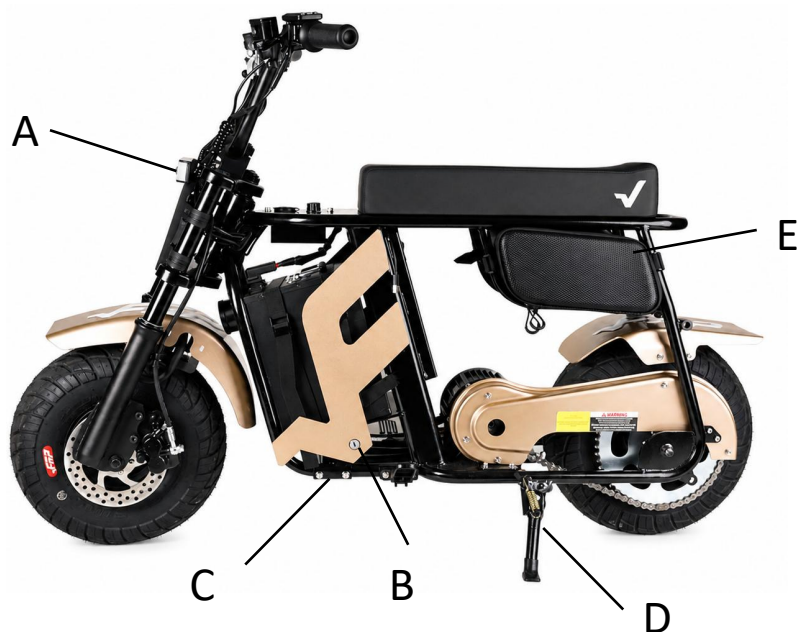
VEHICLE INTRODUCTION

1.2 Mini Parts Description



- A. Rear Brake Lever
- B. Rear Master Cylinder
- C. Display
- D. Front Brake Lever
- E. Front Master Cylinder
- F. Horn Button
- G. Phone Charging Port
- H. Tone Selection Knob

VEHICLE INTRODUCTION



A. Front Light

B. Battery compartment cover lock cylinder

C. Footpeg / Stunt Bar Mounting Holes

D. Kickstand

E. Tail Bag

VEHICLE INTRODUCTION



A. Front Suspension

B. Battery

C. Motor Controller

D. Motor

E. Motor Stop Pin

F. IOT

BEFORE STARTING

Please unpack the contents of the box. Remove the foam separators that are intended to safeguard the components during transportation. Thoroughly examine the contents of the box for any signs of paint scratches, dents, or cables that may have been bent during shipping.

It is important to note that since the Mini Bike is 85 percent assembled and carefully packaged at the factory, minor blemishes or dents on the box should not pose any concerns.

Before getting started, it is crucial to ensure that the package encompasses all the necessary components.



Prior to performing any maintenance procedures, it is imperative to ensure the battery is disconnected.

Estimated installation time: 30 minutes for an adult.



From left to right, they are the Front axle, front wheel, seat, front fender, Tail Bag, charger, Number plate.

FAST INSTALLATION

3.1 Install Handlebar & Headlight



1. Remove the protective wrapping from the handlebar to expose the handlebar clamp. Remove the four supplied hex socket bolts from the tool kit.
2. Remove the headlight from the rear tail bag. Position the headlight below the upper triple clamp, then place the handlebar and handlebar clamp on top of the upper triple clamp.
3. Insert the four bolts upward through the headlight bracket and the upper triple clamp, then thread them into the threaded holes in the handlebar clamp.
4. Tighten the four bolts evenly with the appropriate tool. Make sure the handlebar is securely fixed and does not move.

3.2 Install Seat



1. Take out the tail bag pre-stowed at the rear of the frame.
2. Place the seat on top of the frame with the logo side facing rearward. Align the reserved mounting holes on the seat with the holes on the frame.
3. Secure the seat firmly using the seat screws included in the tool kit.

FAST INSTALLATION

3.3 Install Tail Bag



1. Insert the tail bag from the side following the contour of the frame tubing.
2. There are 2 sets of hook-and-loop fasteners on both the front and rear sides of the tail bag for fixation. Adjust the position of the tail bag so that the four hook-and-loop fasteners can be secured to the four vertical bars.
3. Route each of the four hook-and-loop fasteners around the frame tubing, pass through the buckles on the opposite side, and press firmly to fasten.



3.4 Install Front Wheel



FAST INSTALLATION

1. Lift the vehicle out of the carton and place it on the workbench so that the front wheel hangs free.
2. Use tools to remove the pre-installed support bracket beneath the front fork.
3. Take the front wheel out of the packaging. Pay attention to the orientation of the front brake disc. The brake disc should be on the same side as the kickstand.
4. Take the front axle from the tool kit. Starting from the side without the brake disc, pass the axle sequentially through one side of the front fork, the long spacer, the front wheel, the short spacer, and the other side of the front fork. Tighten the nut securely with tools.
5. Rotate the front wheel and confirm there is no abnormal binding or noise.

3.5 Install Front Brake Caliper



1. Remove the spacer between the brake pads of the front brake caliper.
2. Reposition the caliper and insert the front brake disc between the brake pads.
3. Secure the caliper firmly to the front fork with tools.

FAST INSTALLATION

3.6 Install Fender



1. Place the front fender between the front forks and above the front fork bridge. Align the mounting holes of the fender bracket and the front fender.
2. Secure the front fender tightly with the supplied bolts.
3. Gently shake the front fender by hand to confirm it is firmly installed and free of interference with other components.

3.7 Install the Left Brake Lever and Display



1. Loosen the bolts on the display and left brake lever, then install them onto the left side of the handlebar in sequence.
2. From left to right, the components should be arranged as shown: handlebar grip, display, and brake lever.
3. Adjust the position and angle of the handlebar components for comfortable operation, then tighten all bolts securely with the appropriate tools.

FAST INSTALLATION

3.8 Install Number plate

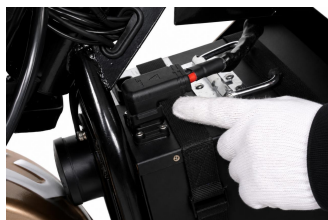


1. Organize the wiring harness routed at the front fork.
2. Mount the supplied number plates on both sides of the front fork.
3. Route cable ties through the holes of the number plates, wrap around the shock absorbers and secure. Trim off excess cable tie length.
4. Fasten all four mounting holes in sequence, then adjust the overall position to center the number plates.

3.9 Connect the battery power supply

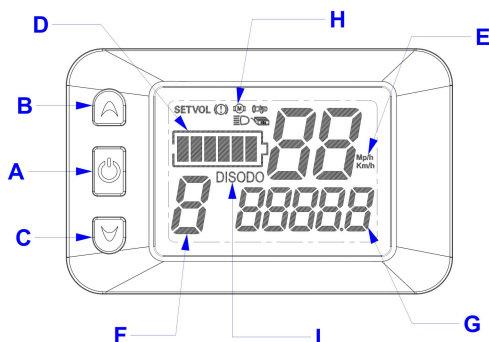


1. Remove the protective rubber boot from the battery discharge port.
2. Insert the discharge cable plug into the battery discharge port; pay attention to the pins inside the plug.
3. Push the plug fully in until the latch of the battery discharge port engages securely.



COMPONENT INTRODUCTION

4.1 Display



Display Content Introduction

D: Battery level indicator with a total of 6 bars. The battery bars will flash when the battery is depleted.

E: Speed display. Default unit is MPH; the unit can be changed to Km/h via the App.

F: Gear indicator: Shows the current vehicle gear status. The vehicle is equipped with P gear, 1st gear to 5th gear.

G: Variable parameter display (ODO is shown by default). You may press the button to switch between trip mileage and real-time battery voltage.

COMPONENT INTRODUCTION

Corresponding fault codes will Appear when vehicle faults occur.)

- H: Electrical component status indicators (brake indicator, motor fault indicator, controller fault indicator, throttle fault indicator, headlight ON status indicator)
- I: Explanation for content shown at position G: TRIP (Trip Mileage), ODO (Odometer / Total Mileage)

Button Function Introduction

- A: Power / Confirm Button: Power ON/OFF, parameter adjustment, confirmation
- B: UP Button: Upshift, headlight switch, parameter adjustment
- C: DOWN Button: Downshift, parameter adjustment

COMPONENT INTRODUCTION

4.2 Custom Horn System



A: Horn Button: Press to activate the horn.

B: Tone Selection Knob: Three tones are pre-set at the factory. Rotate the knob to positions 1, 2 or 3 to select.

C: USB port for custom tone flashing. Connect via USB to replace the three preset tones with custom audio.

4.3 Tail Bag



COMPONENT INTRODUCTION

Vehicle-mounted mode: Follow the assembly steps above to install the tail bag into the vehicle-mounted state.

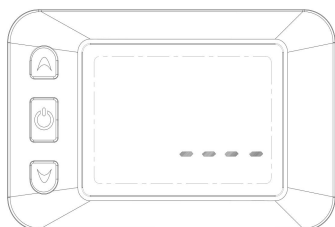
Backpack mode:

Remove the tail bag from the frame, take out the shoulder straps stored inside the bag, attach them to the hooks on the tail bag to switch to backpack mode.

FUNCTION INTRODUCTION

5.1 Display Setting Functions

5.1.1 Power ON & OFF

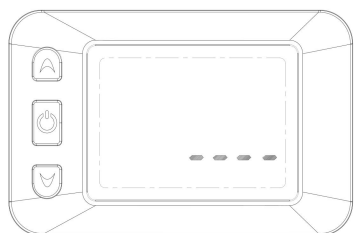


1. Power ON: Press and hold the power button until the password input screen Appears on the instrument. Enter the default password "1111" (use UP/DOWN buttons to select digits, press the power button

to confirm each digit and move to the next position). After entering the password, press and hold the power button; the main interface will load, and power-on is completed.

2. Power OFF: After the vehicle comes to a complete stop, press and hold the instrument power button until the display turns off to finish powering off.

5.1.2 Startup Password Setting



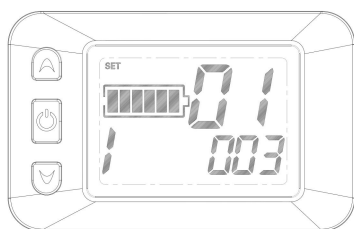
1. With the instrument powered on, press and hold the UP and DOWN buttons simultaneously until the setup menu Appears.
2. After entering the setup menu, press and hold the Power and UP buttons

FUNCTION INTRODUCTION

simultaneously to enter the password setting interface. See figure.

3. Enter the 4-digit password using the UP, DOWN and Confirm buttons. Press and hold the UP and Power buttons to save settings, and the instrument will exit the password setting interface.
4. Wait 5–10 seconds for the instrument to return to the main interface. Password reset is completed.

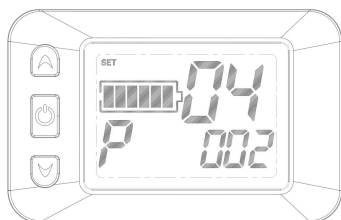
5.1.3 Display Brightness Adjustment



1. With the instrument powered on, press and hold the UP and DOWN buttons simultaneously until the setup menu Appears.
2. Short press the power button to select item 01. See figure.
3. Short press the UP/DOWN buttons to switch among three preset brightness levels (001 – 60% brightness, 002 – 80% brightness, 003 – 100% brightness). Wait 5–10 seconds for the instrument to return to the main interface. Brightness adjustment is completed.
4. After selecting the desired brightness, leave the buttons untouched for 5–10 seconds. The instrument will automatically exit the setup menu and complete brightness configuration.

FUNCTION INTRODUCTION

5.1.4 Vehicle Standby Time Setting



1. With the instrument powered on, press and hold the UP and DOWN buttons simultaneously until the setup menu Appears.
2. Short press the power button to select item 04. See figure.
3. Short press the UP/DOWN buttons to adjust the standby time (range: 0–60 min).
4. After selecting the desired time, leave the buttons untouched for 5–10 seconds. The instrument will automatically exit the setup menu and complete standby time configuration.

5.2 Brake Control Introduction

1. The vehicle is equipped with front and rear Dual-piston Hydraulic Brakes.
2. The left hand controls the rear brake, and the right hand controls the front brake.
3. Both left and right brakes feature power cut-off function (the motor will cut off power when braking), and braking will simultaneously activate high-brightness brake lights.

FUNCTION INTRODUCTION

5.3 Light Introduction

1. The vehicle is equipped with a headlight and taillight. The headlight only has one constant-on mode. The taillight works as running light (constant illumination) and brake light (high brightness). The taillight cannot be controlled separately from the headlight.
2. When the instrument is powered on, press and hold the UP button on the instrument to turn on the headlight and taillight, and the headlight icon will display on the instrument. Press and hold the UP button again to turn off the lights.
3. The headlight will generate heat during prolonged operation, with an estimated maximum temperature of 55° C. Do not touch it.

5.4 kickstand Power Cut-off

1. The vehicle is equipped with kickstand power cut-off function. When the kickstand is lowered to the ground, the vehicle enters P gear by default and cannot start even if shifting gears.
2. After retracting the kickstand, the vehicle automatically exits P gear.

FUNCTION INTRODUCTION

5.5 Phone Charger (USB / Type-C)

1. A phone charger is supplied as standard with the vehicle, featuring USB and Type-C charging ports.
2. The charger is fitted with a touch-sensitive power switch. Tap to turn it on or off; a blue indicator light illuminates when powered on.
3. Total charging specification: 15W, 3A. Power will be shared between ports when both are in use, resulting in reduced charging power.

5.6 Gear Mode Introduction

1. This vehicle is equipped with multiple gears, including P gear and gears 1 to 5.
2. P gear is the parking gear that locks motor rotation. The vehicle will enter P gear under the following conditions: the kickstand is lowered, no operation for 30 seconds after startup, and immediately after power-on. Methods to exit P gear (in priority order): retract the kickstand, squeeze the brake lever, shift up a gear.

FUNCTION INTRODUCTION

3. Gears 1–3 are speed control gears, detailed descriptions as follows:

Gear Display on Instrument	App Gear Mode	Max Speed/mph	Remarks
Gears 1	ECO	15	The above speed data are measured under ideal conditions. Actual riding speed will be affected by gradient, load, battery power and other factors, resulting in actual speed higher or lower than the calibrated value.
Gears 2	DYNAMIC	30	
Gears 3	SPORT	55	



Warning

1. The vehicle is capable of high speeds. Before riding, check that all fasteners and connections are secure, the frame welds are free of cracks or deformation, and the tire pressure is correct (20–28 PSI). Make sure the brakes and throttle operate properly and that the vehicle is in safe operating condition. Do not ride the vehicle if any fault or abnormal condition is found.
2. Riders must be at least 16 years old. Always wear a DOT-compliant helmet and full protective gear while riding. Ride only under adult supervision and in a suitable open area intended for riding.

FUNCTION INTRODUCTION

4. Gears 4–5 are auto wheelie gears, detailed descriptions as follows:

Gear Display on Instrument	App Gear Mode	Max Speed for Normal Riding/mph	Max Speed under Wheelie Mode/mph
Gears 4	Wheelie	10	20
Gears 5	Wheelie Pro		
The riding speed of the two gears is identical. The main difference is that Gear 5 features a more aggressive torque curve than Gear 4.			



Warning

When using these two gears, avoid excessive throttle input which may cause sudden acceleration or crash.

FUNCTION INTRODUCTION

5.7 Auto Wheelie Function Introduction

1. This vehicle is factory-equipped with auto wheelie mode (Gear 4 and Gear 5).
2. Procedures to perform auto wheelie:
 - ① Wear a DOT-approved helmet and full protective gear.
Practice only in professional open venues with a companion on site to prevent accidents
 - ② Inspect all vehicle components to confirm they are in normal condition before riding.
 - ③ Sit slightly rearward compared to your normal riding position, then shift to Gear 4 or Gear 5.
 - ④ Place both feet on the ground, twist the throttle grip, and pull the handlebars upward simultaneously. You will feel resistance holding the front wheel up once it reaches a certain angle.
 - ⑤ When the front wheel lifts and you feel supporting resistance, you have reached the balance point. You may slowly lift your feet off the ground and adjust your body posture to maintain balance.
 - ⑥ Lean your body forward slightly to increase speed gradually. The factory-set maximum speed under wheelie mode is 20 MPH.
 - ⑦ Three ways to exit wheelie mode:

FUNCTION INTRODUCTION

- a. Excessively forward leaning; the system will exit wheelie if you keep leaning forward after reaching 20 MPH.
- b. Squeeze the Front brake lever to exit wheelie mode.
- c. Release the throttle grip back to zero position to exit wheelie immediately.

Important Notes

1. The wheelie balance angle is steplessly adjustable from 30° to 45° , controlled by throttle travel (half throttle to full throttle determines the wheelie balance angle).
2. Keep the throttle grip partially open throughout the wheelie; the system will exit wheelie mode if throttle returns to zero.
3. Be prepared for impact when the front wheel drops to the ground after exiting wheelie. Do not twist the throttle unexpectedly, otherwise sudden uncontrolled acceleration may occur.
4. Never squeeze the rear brake during wheelie, which will cause the front wheel to drop sharply.
5. It is recommended to release the throttle and squeeze the front brake lever simultaneously when exiting wheelie, to stabilize landing and stop the vehicle safely.

FUNCTION INTRODUCTION

5.8 App Introduction

This vehicle is equipped with a dedicated mobile App. Multiple extra vehicle functions can be unlocked via the App, including gear adjustment, custom speed limit for Gear 3, vehicle positioning, remote power on/off, riding records and more. New functions will be continuously launched through subsequent updates.

iOS Version

Search for **FRP – Electric Ride Controller** on the App Store to download.

Android Version

Search for **FRP – Electric Ride Controller** on the Google Play Store to download.



Scan this QR code to view the
video tutorial



Battery Precautions

6.1 Charging Specifications

1. Only use the original dedicated charger supplied by the manufacturer. Do not use any unmatched third-party chargers.
2. Charge the battery only when ambient temperature ranges from 3°C to 45°C. Low temperature will activate low-temperature charging prohibition protection; high temperature will trigger over-temperature power cut-off.
3. Standard charging sequence: Connect the charger plug to the battery charging port first, then plug the charger into mains power. To stop charging: Unplug the mains power supply first, then disconnect the charger from the battery.
4. Do not leave the battery unattended for long-term overcharging. Disconnect the charger promptly once fully charged.

6.2 Discharge & Riding Specifications

1. Avoid discharging the battery under prolonged direct sunlight. Excessively high temperature will automatically cut off power output. Resume use only after the battery cools down to a safe range (intensive riding will raise battery temperature).
2. Do not ride at full throttle continuously, carry heavy loads or climb steep slopes for long periods, which will generate excessive heat from continuous high current discharge.



Battery Precautions

3. Never fully drain the battery to deep discharge. Long-term low SOC will drastically reduce cycle life (standard cycle life ≥ 500 cycles).
4. Do not insert foreign objects into the discharge port, which may damage the battery pack.
5. The discharge port is automatically disabled during charging, so the vehicle cannot be driven while charging. This is a normal protective design.
6. Available capacity and riding range decrease when discharging at low temperatures. This is a normal chemical characteristic of lithium-ion batteries, not a product fault.

6.3 Storage Requirements

1. Store the battery in a cool, dry and well-ventilated area (ambient temperature: $10\sim 25^{\circ}\text{C}$, humidity: $60\pm 25\%$ RH). Keep away from direct sunlight and enclosed high-temperature compartments.
2. For long-term vehicle or battery storage, maintain the state of charge (SOC) at $20\%\sim 40\%$. Recharge the battery every months to prevent cell damage caused by over-discharge.
3. Remove the battery for separate storage if the vehicle will not be used for a long time, to avoid parasitic power drain from vehicle wiring.



Battery Precautions

4. Do not store in damp or watery environments to avoid short circuits caused by condensation on terminals. Ambient humidity shall not exceed 90% RH; no water droplets are allowed on the battery casing and ports.

6.4 Disassembly, Physical Protection & Wading Rules

1. Use the key to unlock the battery compartment for disassembly and installation. The battery is secured with hook-and-loop straps. Handle gently; do not drop, impact or pierce the battery casing.
2. The discharge connector fits tightly. Hold the plug body to unplug it; do not pull the wires directly. Watch out for sharp frame edges to avoid hand injury during operation.
3. The battery has basic water resistance, but shall not be submerged for a long time or sprayed with high-pressure water directly on charge/discharge ports. Fully dry all terminals before charging or riding after wading.
4. Keep metal terminals of charge and discharge ports clean without dust, mud or rust. Only wipe with a dry soft cloth; do not rinse ports with water or detergent.



Battery Precautions

5. Do not disassemble or modify the battery pack, BMS circuit board or cells. Connecting multiple battery packs in series or parallel for capacity expansion is prohibited, as this design is not supported per the specification sheet.

6.5 Safety Warnings & Fault Handling

1. The battery is equipped with multi-layer safety protection (overcharge, overdischarge, overcurrent, short-circuit, high/low temperature protection). Do not expose the battery to ultra-high static environments, which may disable safety devices and lead to overheating, swelling, fire or explosion hazards.
2. Keep the battery away from open fire and flammable materials. Never dispose of the battery by incineration.
3. Leaked electrolyte is corrosive to skin and clothing. If electrolyte contacts skin, rinse thoroughly with plenty of running water and seek medical attention if irritation occurs.
4. Stop using the battery immediately, disconnect all wires, move it to an open outdoor area and contact after-sales service if any of the following abnormalities occur. Do not continue charging or riding:
 - Swollen or deformed battery casing;
 - Abnormally hot casing with pungent odor;
 - Smoke or liquid leakage from ports.



Battery Precautions

5. Only adults are allowed to operate the battery. Keep it out of reach of children and pets. Minors shall not disassemble or charge the battery without adult supervision.

6.6 Battery Disposal & Replacement

1. Internal cells will degrade naturally over time even if stored idle, leading to gradual capacity loss. Replace the battery if the riding range drops sharply after a full standard charge, indicating cell aging.
2. Waste lithium-ion batteries cannot be discarded as domestic garbage. Dispose of them at designated professional lithium battery recycling stations in accordance with local environmental regulations.

6.7 Additional Transportation & Storage Tips

1. Do not invert battery cartons or stack more than 7 layers during transit and handling. The maximum ambient temperature during transportation shall not exceed 65°C.
2. Do not transport or store batteries together with strong acids, strong alkalis or flammable goods.

PREPARING FOR USE

7.1 Inspecting Your Mini Bike

Before operating the electric vehicle, inspect the following items to guarantee the vehicle is in normal condition.

1. **Battery Pack:** Check the battery level indicator on the instrument to ensure sufficient power for your riding range. Actual riding range varies due to different operating environments, so the displayed battery power is for reference only. We recommend fully charging the battery pack before use.
2. **Chain:** Check chain tension and wear condition. Adjust or replace the chain if necessary. Please refer to the corresponding chapter of the manual.
3. **Brakes:** Squeeze the brake lever and push the front and rear wheels to check if they lock up completely. The brakes should fully lock the wheels when actuated.
4. **Throttle Grip:** With the vehicle powered off, twist and release the throttle grip to verify smooth operation and full automatic return to zero position.
5. **Tires:** Check tire pressure and tread depth of both front and rear tires. Measure pressure when tires are cold and maintain the specified tire pressure. (20-28PSI) Inspect the outer tires for damage and abnormal wear; refer to the relevant manual section. Replace tires immediately when tread wears down to the tread wear indicators.

PREPARING FOR USE



Warning

Improper tire pressure is the leading cause of tire failure, which may result in severe tire blowout, tread separation or loss of vehicle control, and further lead to personal injury. Inspect tires regularly to maintain proper tire pressure.

Electrical System : Check that the headlight, Taillight, Display and horn work properly.

7.2 Starting the Mini Bike

Startup Operation

1. Long press the instrument power button, enter the startup password, then long press the power button to confirm power-on.
2. Check the battery level displayed on the instrument and confirm no fault codes Appear.
3. Make sure there are no obstacles around the vehicle, then retract the kickstand to exit P parking gear.
4. Shift up via the instrument, twist the throttle grip to ride normally.

Braking System

1. Brake levers are arranged on both sides of the handlebar.
2. Squeeze the left brake lever to activate the rear brake.
3. Squeeze the right brake lever to activate the front brake.

PREPARING FOR USE

Warning

1. Sudden heavy force Applied to brakes will lock the wheels. This may cause loss of control of the electric mini bike, resulting in serious injury or death.
2. Apply brakes gradually with moderate force to slow the mini bike smoothly without wheel lock-up. This electric mini bike delivers high power output; it is highly recommended to practice repeatedly to master safe emergency stopping skills.

Parking Steps

1. Return the throttle grip to zero position.
2. Lower the side kickstand to support the vehicle upright.

Notes

After each ride, check the remaining battery power and charge the battery in a timely manner. Store the battery pack with state of charge maintained between 20% and 40%.

PREPARING FOR USE

Vehicle Safety Configurations

1. The vehicle will automatically shift into P parking gear after 30 seconds of stationary inactivity. Squeeze the brake lever to exit P gear.
2. The vehicle stays in P gear if the side kickstand is lowered. Retract the kickstand to release P gear.
3. The Display will power off automatically after 10 minutes of stationary inactivity.

MAINTENANCE & CARE

8.1 Periodic Maintenance

Carry out maintenance on the electric mini bike as scheduled to maintain safe and reliable performance. The following maintenance schedule specifies maintenance intervals and relevant precautions. If you lack sufficient experience, skills and tools, please visit a nearby professional repair shop for service. The user shall be solely responsible for component damage or riding accidents caused by improper maintenance, disassembly and assembly.

The maintenance intervals in this schedule are based on regular riding on paved roads. More frequent maintenance of certain components is required if you often ride in humid, dusty environments or off-road conditions. Regardless of mileage, it is recommended to service the electric mini bike at least every 6 months.

It is recommended to check bolt tightness before every off-pavement ride.

MAINTENANCE & CARE

8.2 Battery Pack

1. The battery pack is a lithium-ion system. No routine maintenance is required, but intermittent charging is necessary. For long-term storage, charge the battery pack to Approximately 20%~40% state of charge. Check the remaining power every month; recharge the pack if the charge level drops below 30% to prevent loss of activity, performance degradation and permanent damage.
2. Keep the battery pack away from excessive heat. Do not store it in high-temperature areas or under direct sunlight. When idle for extended periods, store the battery pack within an ambient temperature range of 10° C ~ 25° C.
3. Dispose of the battery pack in accordance with local regulations. Deliver waste batteries to professional recycling facilities; do not discard them casually.

8.3 Brake System

1. **Brake System Bleeding:** Brake bleeding must be performed at a professional repair shop.
2. **Brake Fluid Level Inspection:** Check the brake fluid level via the sight window on the master cylinder reservoir. Top up brake fluid immediately if the fluid level falls below one-third of the sight window. Clean dust from the reservoir cap before opening to avoid contaminating the brake fluid.

MAINTENANCE & CARE

M3 Electric mini bike Maintenance Schedule				
Inspection Items	Every Ride	Every 300 miles or 3 Months	Every 1500 miles or 6 Months	Every 3000 miles or 12 Months
Tire pressure & tire wear condition	○			
Brake pad wear status	○	○	○	
Brake disc wear status	○	○	○	
Drive chain	○	○	○	⚙️
Front & rear sprocket wear condition			○	
Battery pack remaining power	○			
Instrument fault codes	○			
Brake fluid			○	⚙️
Lighting system	○			
Bolt tightness	○			○
Frame bearings			○	
○ Inspect & Maintain ⚙️ Replace				

MAINTENANCE & CARE

Notes

Low fluid level may indicate worn brake pads or hydraulic system leakage. Inspect brake pad wear and check the hydraulic system for leaks.

Only use fresh DOT4 brake fluid from sealed containers.

Brake Fluid Topping Procedure:

- ① Unscrew the two bolts on the reservoir cap and remove the cap and reservoir gasket.
- ② Add fresh DOT4 brake fluid.
- ③ Inspect the cap seal to confirm no wear or damage and ensure proper seating.
- ④ Reinstall and fasten the reservoir cap bolts.

3. Brake Disc Inspection

- ① Check brake disc thickness regularly. The minimum allowable thickness is 3 mm.
- ② Inspect brake pads at the intervals specified in the maintenance schedule. Replace the brake pads once the friction material on the pads is worn away. If brake pads are damaged, they must be replaced regardless of remaining thickness.

MAINTENANCE & CARE

Notes

When using a new brake system or new brake pads, braking performance may be weak initially. Run-in the brake pads and brake disc at low speed in a safe area to ensure the brake system delivers normal braking force.

8.4 Wheels and Tires

1. Inspect wheels for the following conditions:

- ① Rim deformation or cracks
- ② Impact marks on the rim
- ③ Cuts and cracks on the tread or tire sidewall
- ④ Tire bulges
- ⑤ Uneven tread wear
- ⑥ Uneven height of tire mounting line

If any of the above conditions are found, replace the wheel or tire immediately.

8.5 Drive Chain

- 1. Keep the drive chain clean.
- 2. Inspect the chain for wear, tension and lubrication status.
- 3. Park the vehicle steadily. Move the chain up and down by hand and verify the vertical deflection is within the recommended range: 15–25 mm.

MAINTENANCE & CARE

4. Chain Adjustment Procedure

- ① Power off the vehicle and place it on a service stand.
- ② Remove the chain guard.
- ③ Loosen the four motor mounting bolts.
- ④ Turn the motor adjuster stopper bolts with tools to shift the motor forward.
- ⑤ Once proper chain tension is achieved, adjust the two stopper bolts to the identical length.
- ⑥ Retighten the motor mounting bolts and reinstall the chain guard.

TROUBLESHOOTING

9.1 Electric mini bike Troubleshooting

Every electric mini bike undergoes strict quality inspection before delivery. Technical issues may still occur even after inspection. The following content serves as guidance to help you identify faults and perform maintenance by yourself when possible. If you are unable to resolve the mini bike problem, contact the manufacturer's after-sales service.

9.2 Electric mini bike Safety Precautions

1. This electric mini bike contains high-voltage components. Take proper precautions during operation. High voltage from these components is hazardous and may cause burns, electric shock or serious personal injury. Always follow the safety instructions labeled on vehicle components. Do not touch, attempt to remove or replace any high-voltage parts, cables or connectors.
2. In the event of a vehicle crash, do not touch any high-voltage cable terminals or components connected to such cables.

9.3 Electric Vehicle with NMC Lithium-Ion Battery -Fire Response Procedures

1. If a fire occurs indoors:

- ① Evacuate the building immediately and call emergency services.
- ② Do not attempt to move the vehicle or remove the battery.
- ③ If safe to do so, close the door to the affected area when leaving.

TROUBLESHOOTING

- ④ Stay away from smoke and fumes. Do not re-enter the building until emergency personnel confirm it is safe.
- ⑤ Warn emergency responders that the vehicle contains an NMC lithium-ion battery.

2. If a fire occurs outdoors:

- ① Move to a safe distance immediately, keep others away, and stay upwind of smoke and fumes.
- ② Call emergency services and inform them that an NMC lithium-ion battery is involved.
- ③ Do not touch, move, open, puncture, or remove the battery.
- ④ If trained to do so and it is safe, use a large and continuous supply of water from a safe distance to cool the battery. Do not open the battery pack to apply water.
- ⑤ Be aware that the battery may reignite even after visible flames are extinguished.
- ⑥ Keep the damaged vehicle isolated from buildings, vehicles, and combustible materials until it has been inspected and handled by qualified personnel.
- ⑦ Do not ride, charge, transport, store, or reuse a battery that has been involved in a fire.

TROUBLESHOOTING

9.4 System Warning Messages

When the vehicle detects a fault, the corresponding fault code will be displayed on the instrument. Refer to the fault code table to check possible causes and solutions.

Error Code	Code	Description	Troubleshooting	Disposal
	E00	Normal Status	Fault occurred during previous operation and has been repaired	Restart and ride
	E06	Undervoltage Fault	Battery low voltage	Charge the battery before riding
	E07	Motor Fault	① Loose motor wire connector ② Motor failure	Please contact customer service
	E08	Throttle Fault	① Throttle not returned to original position before power- on ② Loose connector ③ Damaged throttle	Please contact customer service
	E09	Controller Fault	Damaged controller	Please contact customer service

TROUBLESHOOTING

Error Code	Code	Description	Troubleshooting	Disposal
	E10	Communication Receive Fault	① Loose connector ② Damaged controller ③ Damaged display power supply ④ Short- circuit of other 5V devices on controller side causing controller downtime	Please contact customer service
	E11	Communication Transmit Fault	① Loose connector ② Damaged controller ③ Damaged display power supply ④ Short- circuit of other 5V devices on controller side causing controller downtime	Please contact customer service
	Hot	Over- temperature Fault	Excessively high temperature of motor or controller	Leave stationary for 30 minutes, restart after temperature drops

Important Notice

****Contact Information****

If you encounter any issues during use, please cease operation immediately and refer to the manual or contact our customer service team.

- Customer Service: **833-970-3777 (Toll Free)**
- Email: **csr@frpmoto.com**

Thank you for choosing our product. We wish you a delightful user experience!

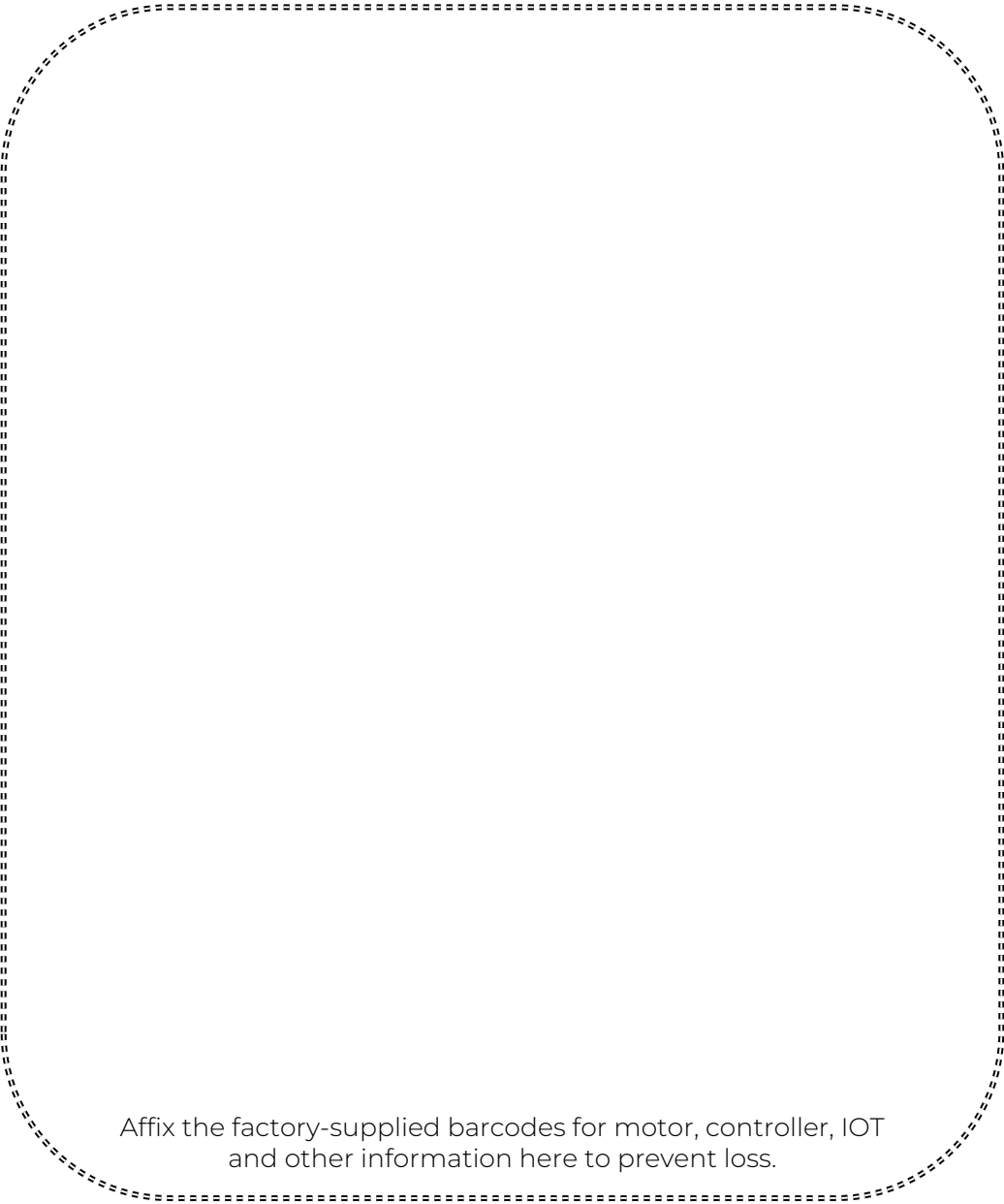


Check Out More
Information From
FRP



Scan the QR Code
Within 7 Days
to Activate Your 365-
Day Warranty

BARCODE INFORMATION RETENTION



Affix the factory-supplied barcodes for motor, controller, IOT
and other information here to prevent loss.

AFTER-SALES SERVICE GUARANTEE

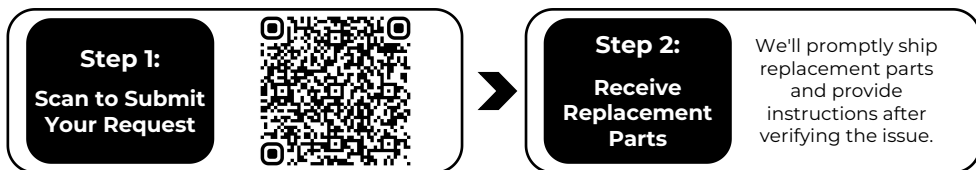
THANK YOU FOR CHOOSING FRP.

We stand behind every purchase with our comprehensive after-sales service guarantee. Your satisfaction is our priority, and we are committed to providing you with continued support long after your purchase.

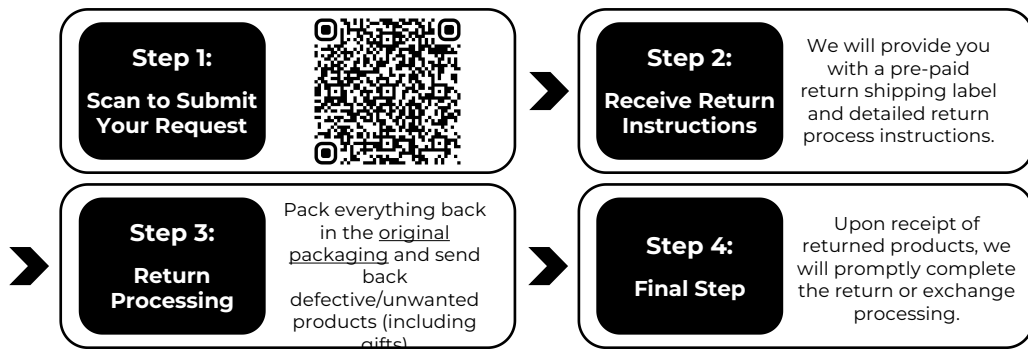
REPLACE/RETURN PROCESS

If you need to address an issue with your purchase, please consider these options:

1. **For Defective or Damaged Parts:** We offer **FREE** repair and replacement of damaged or defective components within warranty period. Please follow these steps:



2. If a return is still needed, please follow these steps:



TERMS AND CONDITIONS

1. **Return Policy:** Complete returns require all purchased items and complimentary gifts to be returned together in their entirety.

2. **Exchange Policy:** For product exchanges, complimentary gifts must be retained by the customer. Only the primary purchased item(s) are eligible for exchange.

3. All returned merchandise must be in original packaging and condition as received. The Company shall not be liable for damages resulting from inadequate packaging or unauthorized shipping methods during the return process.

RETURN REGISTRATION

Reason: ☐ Return ☐ Exchange

Name: _____ **Order Number:** _____

Contact Phone: _____

Email: _____



Do not dispose of batteries
with household waste.

Please recycle separately.

Made in China

Manual Version:V2.0