

# GE

ELECTRIC DIRT BIKE



# OWNER'S MANUAL

This Owner's Manual contains important safety information.

Read this Owner's Manual carefully before riding and keep it in a safe place after reading it.

The rider must have a valid driver's license.



# Introduction

Thank you for purchasing GREENGER G3 electric motorcycle. We wish you a safe and enjoyable ride on your future journey!

Read this Owner's Manual carefully before operating this vehicle and keep it in a safe place after reading it. It contains instructions on the vehicle's operation, troubleshooting and maintenance, as well as guidelines on how to safeguard yourself and others from trouble and injury.

It includes the latest product information at the time of printing. As our products are constantly being improved, there may be some differences between your vehicle and that described in this manual. Please refer to the actual product.

Unauthorized modifications to the vehicle are prohibited.

People who are 14 years of age or older are permitted to use this vehicle.

If you have any questions about the content of this manual, consult the authorized dealer from whom you purchased the vehicle.

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# 1. Important Information

## 1.1 Warning Symbols

Particularly important information is distinguished in this manual by the following symbols.

To ensure your safety and the safety of others, when the following symbols appear, be sure to read their contents carefully and follow the instructions.

 <b>DANGER</b>	Failure to follow the instructions will result in serious injury or death.
 <b>WARNING</b>	Failure to follow the instructions may result in serious injury or death.
 <b>CAUTION</b>	Failure to follow the instructions may result in injury.
 <b>NOTICE</b>	Special precautions are required to prevent damage to your vehicle or other property.

Your safety and the safety of others are very important. It is your responsibility as the owner to operate the vehicle safely and properly. Operation procedures related to the safety symbols and other information are provided in this manual to help you make the right decisions regarding safety.

The information is intended to alert you of potential hazards that may harm you or others.

Be sure to follow these instructions to safely operate and properly maintain your vehicle.

# Important Information

## 1.2 Vehicle Warning Labels

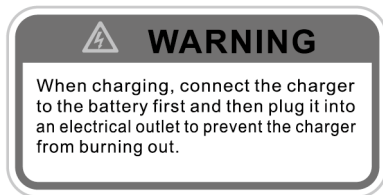
Read all warning labels on the vehicle carefully. These labels contain important safety information that must be observed while riding.



Chain/Tire pressure/Load warning label



Discharge port high-voltage warning label



Charging port warning label

# Important Information

## **WARNING**

- This vehicle is designed and manufactured for off-road use only. It does not conform to Federal Motor Vehicle Safety Standards, and operation on public streets, roads, or highways is illegal.
- Rider should wear full set protective apparel and gear to avoid physical injury.
- Rider should have off-road riding knowledge and skills, and beginners must ride under supervision and guidance of parents.
- To reduce risk of injury, we strongly recommend that you read the owner's manual before riding.

Safe riding warning label 1

## **NOTICE**

If you need to replace the battery, perform the following steps:

1. Turn off the vehicle.
2. Open the seat lock and remove the seat.
3. Remove the battery pressure plate and replace the battery.
4. Check that the battery is properly installed and energized.

Safe riding warning label 2



Safe riding warning label 3

## 1.3 Vehicle Information

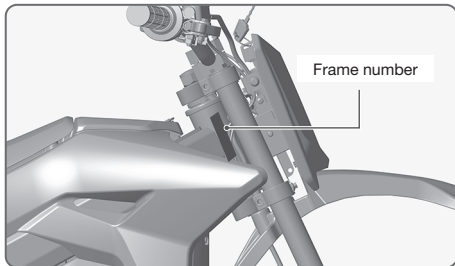
The frame number, product plate and motor number are unique identifications of your vehicle.

These are required when registering your vehicle. They may also be required by your dealer when ordering replacement parts.

Refer to the illustrations below to find the information on your vehicle.

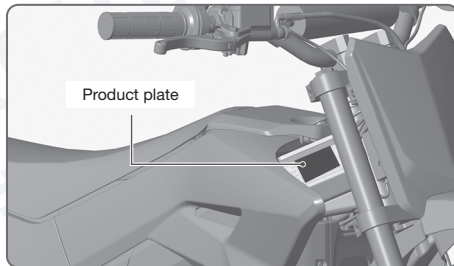
### ▼ Frame Number

The frame number is located on the right side of the steering column.



### ▼ Product Plate

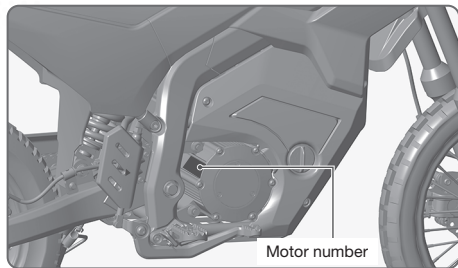
The product plate is located on the right side of the body and near the steering column.



## Important Information

### ▼ Motor Number

The motor number is located at the rear of the motor.





## 2. Safe Riding

### 2.1 Safety Guidelines

As the owner, you are responsible for operating the vehicle safely and properly. Each rider should be familiar with the following requirements before riding the vehicle.

- The rider should undergo proper training in safe riding techniques and obtain the relevant certification.
- Operate this vehicle in compliance with local traffic safety regulations. It is forbidden to operate this vehicle on public roads.
- Follow all warnings, instructions, and maintenance requirements provided in this manual.

#### ▼ Riding Equipments

Riding equipments are essential to ensure your safety and comfort. Be sure to select the appropriate certified riding equipments based on the actual weather and road conditions.

#### Helmet

Choose a helmet that meets national standards, is highly visible, and fits properly.



#### WARNING

A helmet must be worn at all times while riding. A full-face helmet with face shield is recommended.

#### Gloves

Full-finger leather gloves with abrasion resistance are recommended.

#### Boots

Wear protective boots that fit well without affecting your riding.

#### Clothing

Protective, highly visible, long-sleeved jacket and durable trousers for riding (or a motorcycle riding suit).

#### Rain Gear

When riding under rainy or wet conditions, it is recommended to wear a raincoat or waterproof riding suit. For long-distance riding, it is recommended to carry rain gear. Keeping the body dry improves the rider's comfort and helps maintain alertness, which can prevent accidents.

## ▼ Tips for Safe Riding

Make sure that you are physically fit and mentally focused before riding. Do not drink alcohol or take medication before or during riding.

- Ride cautiously and keeping your hands on the handlebars and feet on the footrests.
- Always pay attention to other vehicles around you, stay alert, and be prepared for emergency braking or evasive maneuvers.
- Accelerate and brake smoothly. Be aware of your surroundings before turning or changing lanes.
- Avoid riding while fatigued, as fatigue and inattention can impair your ability to use good judgement and ride safely.
- Keep your vehicle properly maintained and in good riding condition.
- The vehicle's braking performance may be reduced under wet conditions, such as slippery roads, so be sure to ride cautiously at lower speed.
- The braking distance will increase in rain or snow, so reduce speed and ride carefully. Whenever possible, avoid riding in bad weather such as heavy rain or strong wind.
- Do not ride through deep water when the water surface is higher than the center of the motor axle. Deep water may get into the motor and cause it to malfunction.

## ▼ If You are Involved in a Crash

Personal safety is your top priority. If you or anyone else has been injured, take time to assess the severity of the injuries and whether it is safe to continue riding.

Call for emergency assistance if necessary. Also follow local laws and regulations if another person or vehicle is involved in the crash.


If you decide to continue riding, turn off the power switch and evaluate the condition of your vehicle.

Check the power battery for damage, ensure all critical nuts and bolts are securely fastened, and inspect the handlebar, brakes and wheels. Ride slowly and cautiously.

After an accident, have your vehicle inspected and repaired by a qualified service facility as soon as possible. During transport, keep the following in mind:

- If your vehicle is extensively damaged in a crash, there may be a risk of electric shock. Do not touch any electrical components or their connecting wires.
- Avoid contact with the brake fluid. A serious crash may cause leakage of the brake fluid. Avoid contact of the brake fluid with your skin or eyes.

# Safe Riding

 <b>DANGER</b>	<ul style="list-style-type: none"><li>▶ This vehicle uses a high-voltage lithium battery. Improper handling during an accident may result in serious injury or death.</li><li>▶ In the event of an accident, follow the procedures and instructions described in this manual.</li></ul>
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## ▼ Power Battery

If the power battery emits an unusual odor, there may be a malfunction. Immediately park your vehicle in a safe outdoor location and away from flammable materials, turn off the power switch, and contact your authorized dealer as soon as possible.

→ For information on how to charge the battery, refer to page 37.

Do not attempt to disassemble or modify the battery.

## ▼ Braking System

Observe the following guidelines:

- Avoid excessive emergency braking. Sudden braking may cause tires to slip and reduce the vehicle's stability. Reduce speed before turning.
- Exercise caution on low traction surfaces. The tires slip more easily on such surfaces and braking distances are longer.
- Repeated braking, such as when descending long, steep slopes can seriously overheat the brakes, reducing their effectiveness.
- For optimal braking performance, operate both the front and rear brakes together.

## ▼ Accessories and Modifications

Modifications to this vehicle are strictly prohibited.

Modifying your vehicle will also void your warranty and make your vehicle illegal to operate on roads.

The user alone shall be responsible for any quality issues or consequences resulting from unauthorized modifications.



**DANGER**

- ▶ Improper accessories or modifications may cause accidents and pose a risk of serious injury or death to you and others.
- ▶ Follow all instructions in this manual regarding accessories and modifications.

## ▼ Loading Guidelines

This vehicle is designed for one rider only. Do not carry any additional passenger to avoid accidents.

Maximum load capacity: 60 kg

Overloading affects your vehicle's handling, braking and stability. Avoid overloading and keep within specified load limits.

Always ride at a safe speed when carrying heavy loads.

Secure the load properly on the vehicle. Make sure the load does not shift side to side while riding, and adjust it if necessary.

Do not place any items near the motor.

Do not place any items near the handlebar, as they may interfere with handlebar operation.

Do not carry items that are excessively heavy or bulky.



**DANGER**

- ▶ Overloading, improper loading or carrying too many people may lead to accidents and cause serious injury or death.
- ▶ Follow the loading guidelines in this manual for safe loading.

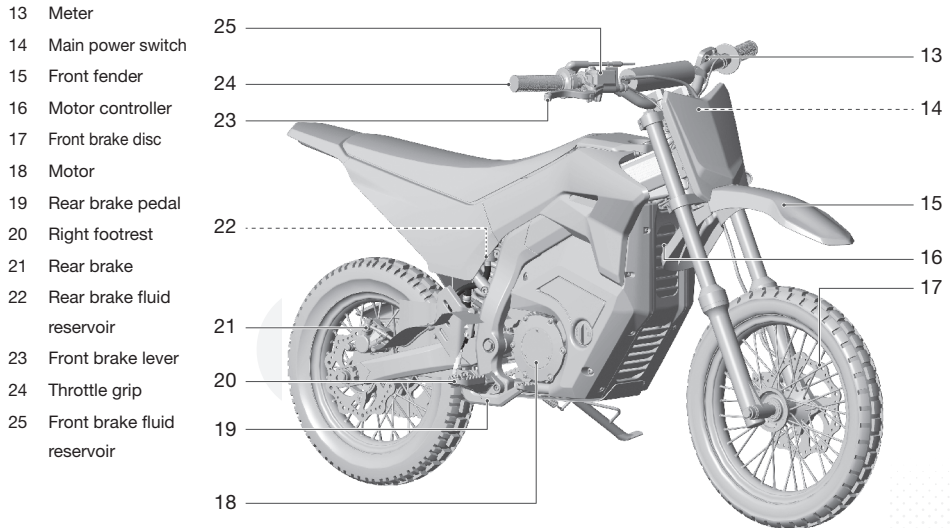
## 3. Vehicle Overview

### 3.1 Main Components

- 1 Start button
- 2 Seat
- 3 Seat lock
- 4 Rear shock absorber
- 5 Chain
- 6 Rear brake disc
- 7 Chain guard
- 8 Kickstand
- 9 Left footrest
- 10 Front brake
- 11 Lithium battery pack
- 12 Front shock absorber



## Vehicle Overview

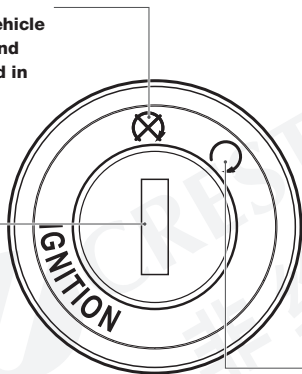


# Vehicle Overview

## 3.2 Main Power Switch

Insert the mechanical key and turn it to the “⊗” marked position, the vehicle power will be cut off, and the key can be removed in this state.

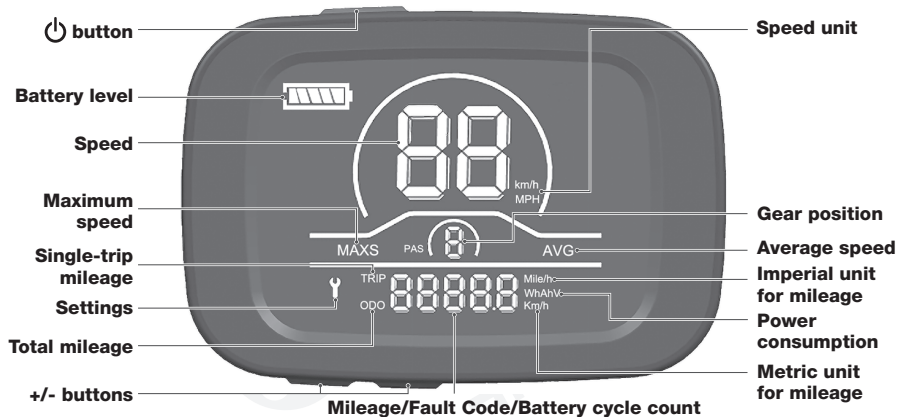
Keyhole



Insert the mechanical key and turn it to the “⊙” marked position, the vehicle power will be turned on, and the key cannot be removed in this state.

## 3.3 Meter

### ▼ Main Screen



### NOTICE

- ▶ When the vehicle is powered on, all the indicators will briefly light up and then turn off.
- ▶ If any of the above indicators fails to operate as described, contact your authorized dealer for troubleshooting.

# Vehicle Overview

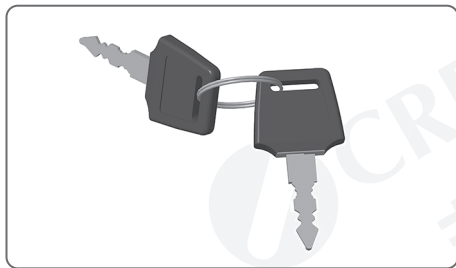
## 3.4 Mechanical Key

Your vehicle is equipped with two mechanical keys, which can be used to turn the vehicle power ON/OFF and unlock the seat.



### NOTICE

- ▶ Always carry a mechanical key with you when using the vehicle, and store it securely after use to prevent loss.
- ▶ If a key is lost, contact your authorized dealer.



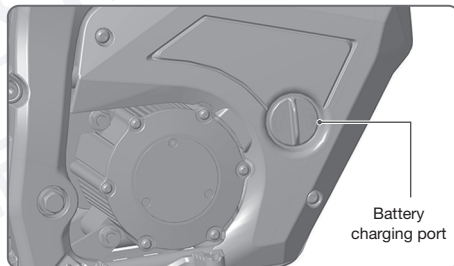
→ Use of Mechanical Key, refer to page 19

## 3.5 Charging Ports

### ▼ Battery Charging Port

The battery charging port is located on the right side of the vehicle (see illustration). Turn the charging port cover counterclockwise to open before use.

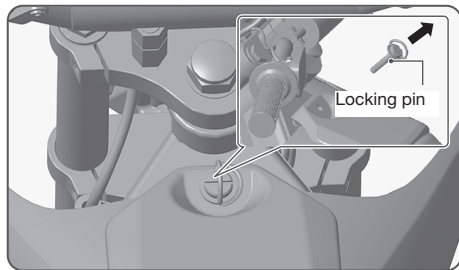
- For precautions regarding the use of the power battery, refer to page 32.
- For instructions on how to charge the power battery, refer to page 37.



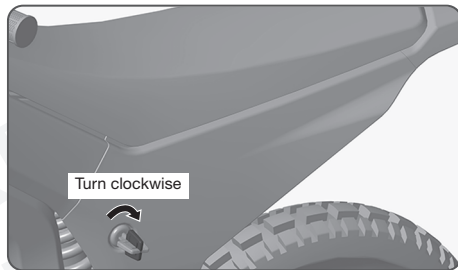
### 3.6 Seat

The seat lock is located on the left side of the vehicle. Open the seat as follows.

- 1 Unscrew and remove the locking pin on the front of the seat assembly.

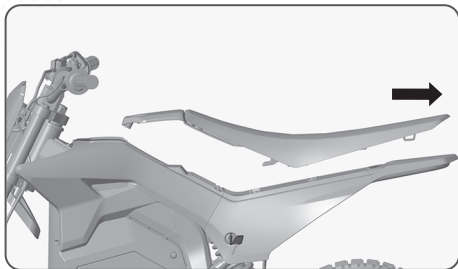


- 2 Insert the mechanical key into the seat lock. Turn it clockwise to unlock the seat.



## Vehicle Overview

- 3 Remove the seat assembly by pulling the seat toward the rear of the vehicle.



When installing the seat, first insert the hooks on the seat into the corresponding fixing clip on the body. Then, press the seat until it locks, and finally insert and tighten the locking pin.

After installing the seat, make sure that the seat is locked securely in position by pulling it up lightly.



### NOTICE

Don't forget to remove the key after installing the seat.

## 3.7 Brake Lever

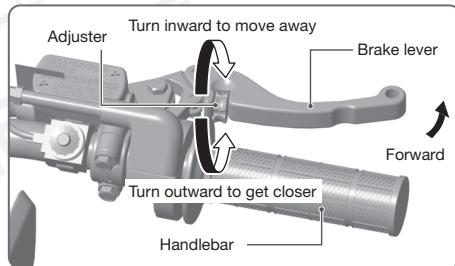
You can adjust the distance between the brake lever and the handlebar.

### ▼ How to Adjust

Turn the adjuster outward to bring the brake lever closer to the handlebar.

Turn the adjuster inward to bring the brake lever further away from the handlebar.


After adjustment, confirm that the brake lever is functioning properly before riding.





## 4. Operating Guidelines

### 4.1 Meter Settings

This vehicle is equipped with a multi-function meter, you can view and understand various information and status of the vehicle through the meter screen, and use the  button and "+/-" buttons on the meter to make various settings.

When the vehicle is powered on and the meter lights up, you can perform relevant setting operations.

→ For instructions on how to start the vehicle, refer to page 28

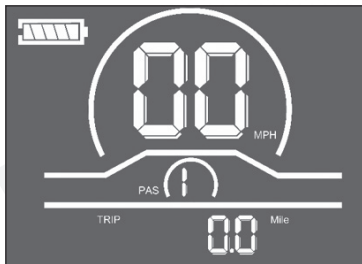
#### ▼ Meter Screen Introduction

After you use the power switch to turn on the vehicle, the meter displays "OP", and the vehicle enters standby mode.



Standby mode screen

On standby mode screen, press the start button, the meter displays "00", and the vehicle enters the riding mode.



Riding mode screen

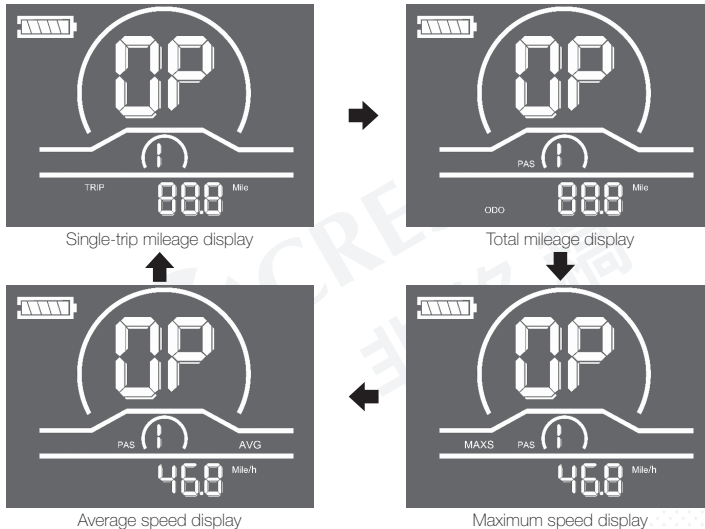


#### NOTICE

In the riding mode, if the vehicle is parked for more than 10 seconds, it will enter standby mode. To restore the riding mode, press the start button again.



## 4.1.1. Information Display Switching

After the vehicle is powered on and the meter becomes active, the meter will display the instantaneous speed (MPH) and single-trip mileage (Mile) by default. Repeatedly and briefly press the  button to switch the display between single-trip mileage, total mileage, maximum speed and average speed.



# Operating Guidelines

## 4.1.2. Gear Position Adjustment

- 1 After the vehicle is powered on and the meter becomes active, press the “” button for more than 2 seconds to enter the gear position adjustment screen.
- 2 Briefly press the “+” or “-” button to switch between 1st gear, 2nd gear and 3rd gear.
- 3 After selecting the desired gear position, briefly press the “” button to save settings and exit.



Gear position adjustment screen

## 4.1.3. Fault Code Display

When a malfunction occurs in the vehicle electronic control system, a fault code will be automatically displayed on the meter. The fault code will be displayed in the mileage information segment in the format E0\*\*.

After a malfunction occurs, the vehicle may not operate properly. Therefore, when a fault code appears on the meter, resolve the issue immediately.



Fault codes display screen



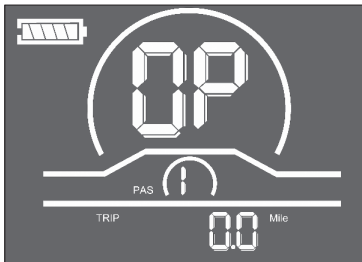
### NOTICE

In the normal power-on state, the meter displays 1st gear by default.

## Operating Guidelines

### 4.1.4. Single-trip Mileage Reset

- 1 Make sure that the vehicle is stationary.
- 2 After the vehicle is powered on and the meter becomes active, the meter displays "OP", and the vehicle enters standby mode.
- 3 Press the "⏻" button and "-" button simultaneously and hold for more than 2 seconds.
- 4 The single-trip mileage will be reset to "0.0".



### 4.1.5. Meter Backlight Adjustment

- 1 Make sure that the vehicle is stationary.
- 2 After the vehicle is powered on and the meter becomes active, the meter displays "OP", and the vehicle enters standby mode.
- 3 Press and hold the "+" button for more than 2 seconds to adjust the meter backlight.



#### NOTICE

There are only two backlight levels: "bright" and "dark". Each time the above operation is performed, the meter backlight will toggle between "bright" and "dark".

## Operating Guidelines

### 4.1.6. Checking Battery Cycle Count

After the vehicle is powered on and the meter becomes active, briefly press the "-" button to check the battery cycle count.

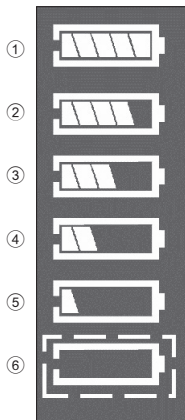


### 4.1.7. Display Unit Switching

The default display units of the meter information are imperial. To switch to metric units, follow the steps below.

- 1 Make sure that the vehicle is stationary.
- 2 After the vehicle is powered on and the meter becomes active, the meter displays "OP", and the vehicle enters standby mode.
- 3 Briefly press the "+" button to toggle the displayed information between imperial and metric units.

## 4.1.8. Battery Level Display



The vehicle's meter features an intuitive five-segment battery power display, allowing you to easily check the current battery level.

When the battery is fully charged, all five segments of the display will light up.

As the battery is used, the number of segments that light up will gradually decrease. You can judge the remaining battery level based on the number of segments that are still on.

When the battery level is low, the frame of the power display will flash to remind you that the vehicle's battery needs to be charged immediately to prevent it from shutting down.

Battery power display	Description	Battery power display	Description
①	Battery level 81% - 100%	④	Battery level 11% - 40%
②	Battery level 61% - 80%	⑤	Battery level 5% - 20%
③	Battery level 41% - 60%	⑥	Battery level < 5%



### NOTICE

To ensure the proper operation of the vehicle and extend the service life of the battery, be sure to charge the vehicle immediately when the power indicator light starts flashing.

## 5. Riding Guidelines


### 5.1 Pre-Ride Check

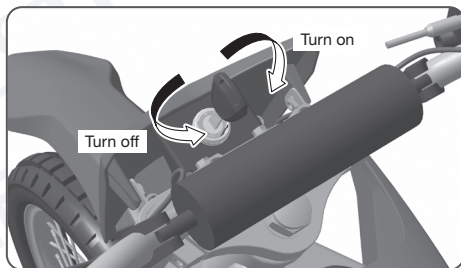
Check the following items every time before you ride your vehicle to ensure that it is in safe working condition.

Always follow the check items, maintenance procedures, and maintenance schedule specified in this manual (refer to page 41).

<b>Battery level</b>	Check the remaining level of the power battery, and recharge it if necessary.	Page 17
<b>Meter</b>	Check for any damage or dirt, and see if any fault codes appear when the meter lights up.	Page 17
<b>Brake pedal</b>	Check if the braking operates smoothly.	Page 15
<b>Handlebar</b>	Check if it operates smoothly in all steering positions.	--
<b>Brake lever</b>	Check if the braking operates smoothly.	Page 30
<b>Front and rear brakes</b>	Check the brake fluid level and brake pad wear.	Page 45-46
<b>Tires</b>	Check the tire condition and tread. Inflate or deflate if necessary.	Page 42
<b>Throttle grip</b>	Check if it operates smoothly.	Page 47

### 5.2 Starting

- 1 Firmly hold the brake lever, press down on the brake pedal, and retract the kickstand.
- 2 After getting on the vehicle from the left side, support your body with one foot to prevent falling over, and keep the rear brake engaged.
- 3 Insert the mechanical key into the main power switch and turn it to the “” position to power on the vehicle.





## WARNING

- ▶ To avoid the danger of the vehicle moving unexpectedly, release the brakes only after you get on the vehicle and are ready to ride.
- ▶ Observe traffic regulations, and do not ride after drinking alcohol or taking medication.
- ▶ When a child is alone in the vehicle, be sure to turn off the vehicle's power and remove the key to prevent any dangerous operation.

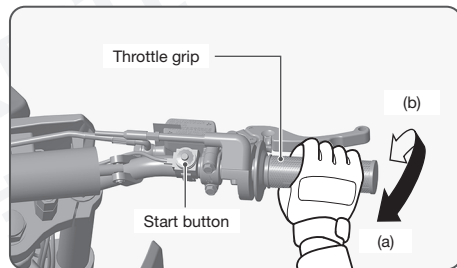
## 5.3 Riding

Before riding, check the traffic around you.

Make sure that the surrounding conditions are safe for riding, press the start button, confirm that the meter enters the driving mode screen, and then slowly rotate the throttle grip to start riding.

Acceleration: Turn the throttle grip in direction (a).

Deceleration: Turn the throttle grip in direction (b).



## WARNING

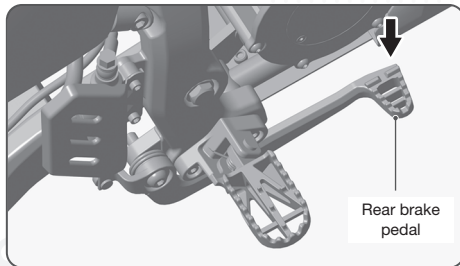
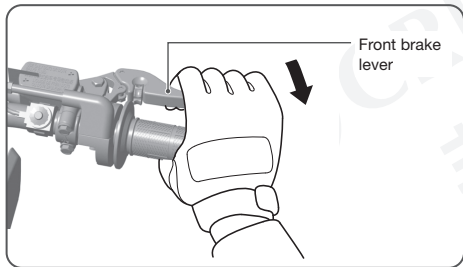
Do not turn the throttle grip rapidly to avoid sudden acceleration, which may result in an accident.

# Riding Guidelines

## 5.4 Braking

When approaching a turn or coming to a stop, reduce speed and begin braking in advance.

Be mindful of vehicles and pedestrians around you. Return the throttle grip to its initial position, and then squeeze the front brake lever and press down on the rear brake pedal, first slowly then gradually faster.



### WARNING

- ▶ Avoid excessive force or emergency braking (especially when the vehicle is leaning to make a turn), as this may cause slipping or turn over.
- ▶ Braking on wet roads may cause slipping and result in danger. reduce speed and ride cautiously.
- ▶ Repeated braking, such as when descending long, steep slopes can seriously overheat the brakes, reducing their effectiveness.
- ▶ For safety, operate both front and rear brakes together, and use the brakes intermittently to reduce speed.

### 5.5 Parking

Park the vehicle on a solid, flat surface using the kickstand.

If you must park on a slight incline or loose surface, ensure that the vehicle is stable, and prevent it from moving or tipping over.

- 1 Turn off the vehicle.
- 2 Lower the kickstand and gently lean the vehicle to the left until its weight rests on the kickstand.
- 3 Turn the handlebar all the way to the left. After confirming that your surroundings are safe, get off the vehicle from the left side.



#### NOTICE

- ▶ Do not park the vehicle in a location that could obstruct traffic.
- ▶ Make sure that the power is turned off before leaving the vehicle. Carry the mechanical key with you to prevent others from operating the vehicle.



## 6. Battery and Charging

### 6.1 Power Battery

This model is equipped with a power battery, which is located at the front of the frame (refer to page 14).



#### WARNING

Do not attempt to disassemble or modify the power battery.

With repeated charging and discharging, the battery capacity will decrease.

When the battery capacity decreases, the distance that you can ride will gradually decrease, even if the power level displayed is full (fully charged).

The discharging performance will gradually decline depending on your riding conditions and the vehicle life.

The vehicle's mileage may decrease when operated in extreme hot or cold conditions.

If the vehicle will be stored for an extended period, use the official charger to charge the battery every three months, keeping the battery level between 40% and 60%.

If the battery is completely discharged due to prolonged storage and the vehicle cannot be started, connect the charger to recharge the battery for at least 30 minutes before trying to start the vehicle again.

Do not wait until the battery is fully discharged before charging. It may greatly affect the battery life.



#### DANGER

- ▶ Improper use of the power battery may result in electric shock or fire, which may lead to serious injury or death.
- ▶ Do not attempt to disassemble the used battery. It should be recycled and handled by a professional recycling service.

## 6.2 Battery Removal and Installation

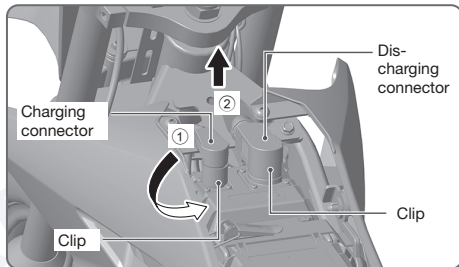
This model uses a high-voltage lithium battery. Follow the relevant safety precautions and proceed with the steps below.

Contact your authorized dealer if you have any questions during the removal and installation process.

### ▼ Battery Removal

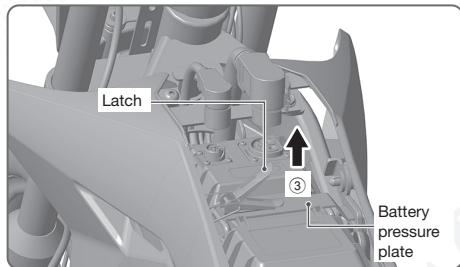
- 1 Make sure the vehicle is completely powered off.  
For instructions on how to turn off the vehicle, refer to page 16.
- 2 Open the seat (refer to page 19).

- 3 Turn the clip under the charging and discharging connectors counterclockwise to unlock ①, and then lift upward ② to remove the charging and discharging connectors.

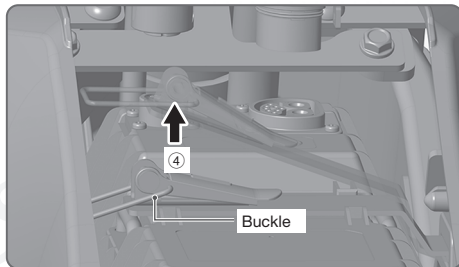


## Battery and Charging

- 4 Lift the latch ③ on the battery pressure plate.

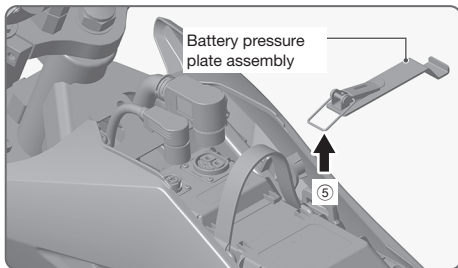


- 5 Release the buckle on the side of the battery pressure plate and lift up the battery pressure plate ④.

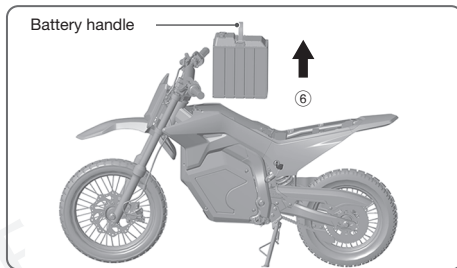


# Battery and Charging

- 6 Remove the battery pressure plate assembly ⑤.



- 7 Hold the battery handle and lift up to remove the battery ⑥.



## ▼ Battery Installation

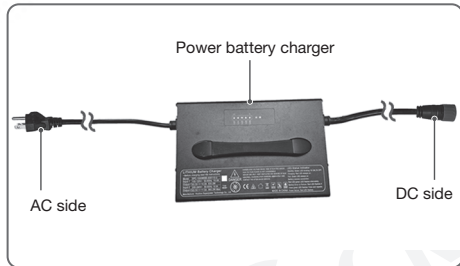
Install the battery in the reverse order, connect the connectors and install the seat.

Turn on the vehicle power and check if the electrical system is functioning properly.

# Battery and Charging

## 6.3 Charger

Store the power battery charger in a place away from direct sunlight and rain.

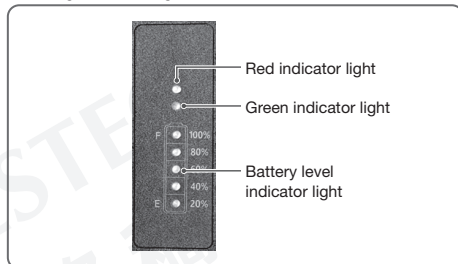


### ▼ Charger Specifications

Input voltage	100~240 V
Input voltage frequency	50-60 HZ
Maximum charging voltage	DC83.5 V
Maximum input current	AC230 V, 6 A
Output current	83.5 V 11 A

### ▼ Charger Indicator Lights

When charging the battery, you can check the charging status by the charger indicator lights.



Indicator lights status	Charger/Battery status
Green light flashes/Red light off	AC side connected, DC side disconnected
Red light solid on/Green light off	1. Battery activated 2. Charging status
Green light solid on/Red light off	Fully charged
Red light flashes/Green light flashes	Battery malfunction
Battery level indicator light on + flashing	Charging



If the charger or battery malfunctions, stop charging immediately and take the vehicle and charger to a designated service center for inspection, repair, or replacement of parts.

## 6.4 How to Charge

### ▼ Charging Environment

Charge the vehicle in a well-ventilated, dry and shaded place where it is legally allowed.

Ambient temperature: 0°C - 45°C



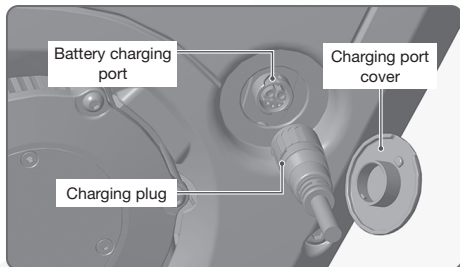
**DANGER**

- ▶ Never charge the battery in a damp or dewy location, or in areas with flammable or explosive materials, volatile flammable gases, or excessive dust.
- ▶ Do not allow non-professionals to disassemble the internal structure of the battery to prevent accidents.

### ▼ Charging Method

- On-board Charging

Always use the battery charger provided with this vehicle to charge the power battery.

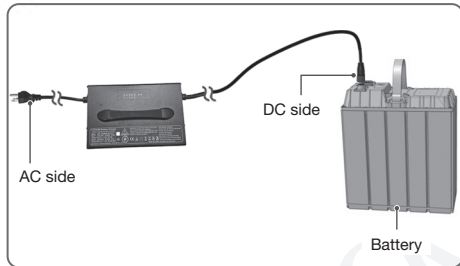


When charging, the vehicle power should be turned off. Connect the charger to the vehicle's charging port before plugging it into an electrical outlet.

# Battery and Charging

- Off-board Charging

Make sure that the vehicle power is off and remove the battery (refer to page 33).



When charging, connect the charger to the battery's charging port, and then connect the other end to the electrical outlet. When the battery is fully charged, disconnect the power immediately, then reinstall the battery and power on the vehicle to confirm that the battery is working properly.

## ▼ Charging Time

Charging a fully discharged power battery takes about 4 hours. The charging time may be longer at higher or lower ambient temperatures. Do not charge for more than 12 hours to prevent reducing the battery's service life.

## ▼ Precautions for Charging

- When charging, insert the plug into the vehicle's charging port first, then into the power outlet. A "pop" sound may be heard, which is not a malfunction.
- To stop charging, unplug from the power outlet first, then from the vehicle's charging port.
- The charger is dedicated to this vehicle and should not be used for other vehicles to avoid damage.
- The charger outputs direct current (DC), indicated by "+" and "-" polarities. Ensure the correct polarity when connecting.
- The charger must not be immersed in water. If the plug or charger has been immersed in water, stop using it immediately.
- Keep the charger away from explosive gases and avoid flames or sparks while in use.
- The charger generates heat while operating. Make sure it has proper ventilation and avoid placing it on sofas or other flammable objects.

## Battery and Charging

- The output voltage of the charger exceeds DC 72 V. Use it in a safe manner, and do not open the charger if you are not a professional to avoid electric shocks or failures.
- The charger is fan-cooled and may produce some noise (sound of airflow from the rotating fan blades), which is not a malfunction.
- If the charger or power outlet is damaged or deformed, or the power cord is frayed, stop using and have it replaced by a professional.
- Do not charge the vehicle while it is covered. Make sure there is proper ventilation around the vehicle.
- Do not charge in places where there is risk of lightning.
- Do not overload a power outlet with too many power cords.
- Do not plug or unplug the charger by pulling the cable.
- Do not repeatedly charge the battery after it is fully charged.
- Read this manual carefully before use. If there are any abnormalities with the indicator lights or the charger casing is overheating, stop charging immediately and have it inspected by a professional.
- If the power supply is damaged or the charging system malfunctions, take the vehicle to a designated service center for repair or replacement.



### WARNING

**In the event of a fire involving the vehicle or battery, follow these guidelines:**

- ▶ If smoke is emitted from the power battery, move away from the vehicle immediately, contact the fire department, and prepare to extinguish any fire.
- ▶ Use an ABC dry powder extinguisher or an electrical fire extinguisher to put out the fire. If the fire is out of control, contact the fire department.
- ▶ After extinguishing the fire, contact your authorized dealer to handle the disposal of the battery. Do not attempt to handle it.
- ▶ Depending on the location of the fire, the vehicle's power may still be on. Make sure to cut off the power after extinguishing the fire.

## 7. Maintenance

Keeping your vehicle in good condition is crucial for your safety, the safety of properties, and the prevention of accidents.

It is the owner's responsibility to perform maintenance. Be sure to inspect your vehicle before each ride (refer to page 28) and perform the periodic checks specified in the maintenance schedule.



### WARNING

- ▶ Riding the vehicle without proper maintenance or proper troubleshooting may result in serious accidents, leading to injury or death.
- ▶ Be sure to follow the inspection and maintenance recommendations provided in this manual.

## 7.1 Maintenance Schedule

### Regular Maintenance Work

No.	Maintenance items	Maintenance interval						
		Pre-ride check	Mileage (km)	150 (first time)	1000	2000	3000	4000
			Time (months)	1 (first time)	6	12	18	24
1	Battery level	●						
2	Operation of throttle grip*	●				●		●
3	Brake fluid*	●		●	●	●	●	●
4	Drive chain	●	Lubricate if necessary	●	●	●	●	●
5	Brake pads	●			●	●	●	●
6	Brake system	●		●	●	●	●	●
7	Kickstand	●				●		●
8	Suspension*					●		●
9	Nuts, bolts, fasteners*			●		●		●
10	Wheels/Tires*	●		●	●	●	●	●
11	Steering stem bearings*			●		●		●

\* We recommend service by your authorized dealer, unless you have the necessary tools and are mechanically skilled.

# Maintenance

## 7.2 Motor, Controller

The controller of the electric motorcycle is a key component of the vehicle that controls the motor's start, operation and other functions.

Follow the rules below:

- Do not modify the motor by yourself, doing so can easily lead to fire or accidents.
- Do not ride the vehicle in water, and do not allow the water level to exceed the height of the rear wheel axle.
- Frequently check the motor's fastening condition. If any screws are found to be loose, have them tightened by a service technician immediately.



### NOTICE

If your vehicle has been parked for a long time in the rain without protection, inspect the controller and motor for any signs of water ingress before riding. If water is found in the controller or motor, it is recommended that you do not use the vehicle for some time until the water has disappeared.

## 7.3 Tires

To operate your vehicle safely, select the correct type and size of tires, and make sure the tires are in good working condition with adequate tread depth and proper tire pressure.



### WARNING

- ▶ Using excessively worn or incorrectly pressurized tires can lead to accidents, resulting in serious injury or even death.
- ▶ Follow the tire pressure and maintenance instructions provided in this manual.

### ▼ Checking the Tire Pressure

Check the tire pressure with a gauge at least once a month, or whenever you feel the air pressure is low, while the tires are cold. Adjust the tire pressure according to your weight and the road conditions.

Maximum front tire pressure (cold): 32 psi  
Maximum rear tire pressure (cold): 36 psi

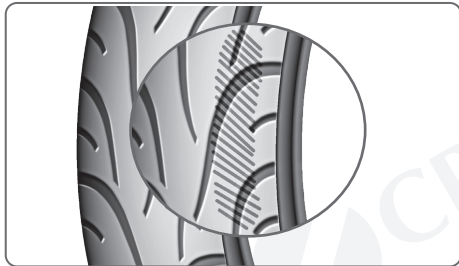
Overinflated tires will give you a bumpy ride, are often damaged by poor road conditions and may lead to uneven tire wear.

Make sure that the valve cap is securely tightened. If necessary, replace the valve cap with a new one.

## ▼ Visually Inspect of Tires

### Checking for Damage

Check the tire for cuts, cracks, exposed fabric or tire cords, or nails or other foreign matter stuck in the sidewalls or tread. Also check the tire sidewalls for any bulges or swelling.

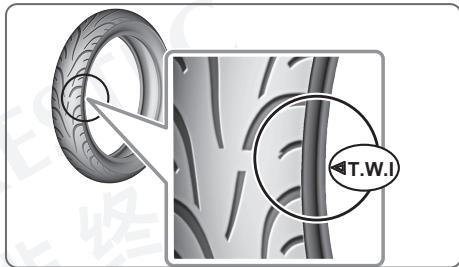


### Checking Tread Depth

Check the tread wear indicators.

If they become visible, replace the tires immediately.

Minimum tread depth: 2 mm



### WARNING

Riding with severely worn tires will reduce the riding performance of the vehicle and may cause accidents.

# Maintenance

## ▼ Tire Replacement

If the inner tube of a tire is punctured or damaged, you should have it replaced as soon as possible. Repaired tires, which do not perform as well as new ones, may rupture during riding. If you have to use a patched inner tube or use sealant to temporarily repair the inner tube, ride at a lower speed and with caution. Replace the tire before your next ride.

Follow the rules below:

- Use the recommended tires or their equivalents of the same size, construction, speed rating, and load range.
- Do not overload. Riding with an overloaded vehicle may cause accidents.
- All wheels and brake-related parts (including tires) should be replaced by a technician with professional skills and experience.



### WARNING

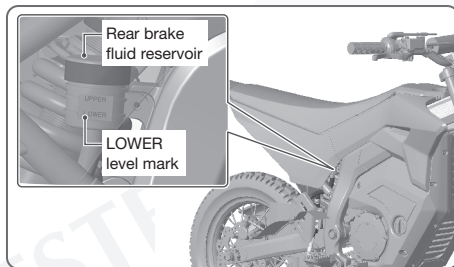
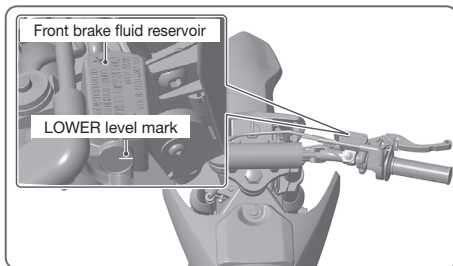
- ▶ Installing improper tires may affect the handling and stability of the vehicle, leading to accidents and causing serious injury or even death.
- ▶ Always use the size and type of tires recommended in this manual. (Refer to page 60)

## 7.4 Brake Fluid

Turn the handlebar. When the brake fluid level is flush with the marked line, check if the fluid level is above the lower level mark.

If the brake fluid level in the front or rear brake fluid reservoir is below the lower level mark, have the vehicle inspected by your authorized dealer.

Recommended brake fluid grade: DOT3 or DOT4



### **DANGER**

Failure to replenish the brake fluid immediately may cause brake performance to deteriorate or even failure, resulting in serious injury or death.



### **NOTICE**

Brake fluid can damage plastic and painted surfaces. If any fluid spills over, wipe it off immediately and clean thoroughly.

# Maintenance

## 7.5 Brake Pads and Brake Discs

Check the condition of the wear indicators on the front and rear brake pads.

If the brake pads are worn to the bottom of the wear indicators, the pads need to be replaced.

Brake pad wear limit: 1 mm

Check the wear condition of the front and rear brake discs.

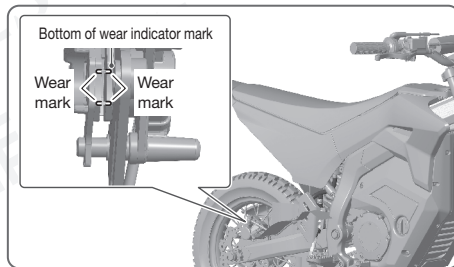
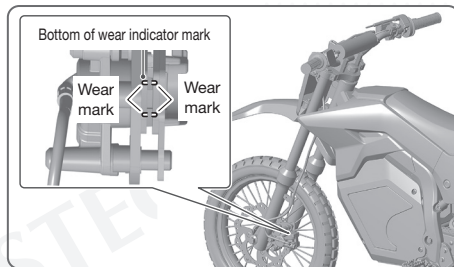
If the brake discs are worn to the thickness specified by the manufacturer, the discs need to be replaced.

Brake disc wear limit: 2.2 mm



### WARNING

Failure to replace the brake discs in time may result in extended braking distance or brake failure, which may cause accidents or injury.

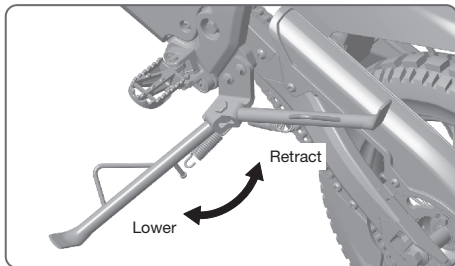


## 7.6 Kickstand

Check that the kickstand operates smoothly. If the kickstand is stiff or makes abnormal noise, clean the pivot area and lubricate the pivot bolt with clean grease.

Check the spring for damage or loss of tension.

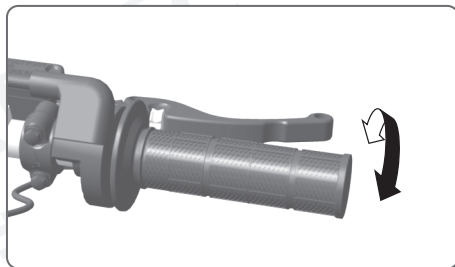
Check the kickstand for deformation or crack, if any, have it repaired at an authorized service center in time.



## 7.7 Throttle Grip

With the power turned off, check that the throttle grip can be rotated smoothly between the fully-closed and fully-open positions, and returns automatically without being stuck.

If the throttle grip does not operate smoothly or return to its initial position automatically, have it inspected by your authorized dealer.



# Maintenance

## 7.8 Chain

Check and adjust the chain tension.

Loosen the rear axle nut and adjust the chain slack by loosening or tightening the adjusting nut.

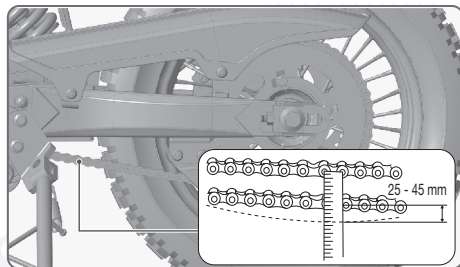
While adjusting the chain, keep the front and rear sprockets aligned to prevent chain wear caused by improper adjustment. After adjustment, re-tighten the rear axle nut and tighten the screw fastening nut.

Standard chain slack: 25 - 45 mm



### WARNING

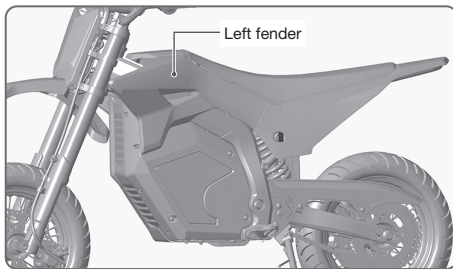
A chain that is too slack or too tight can cause chain slip or breakage, posing a safety risk. Have the chain inspected and adjusted regularly at an authorized service center.



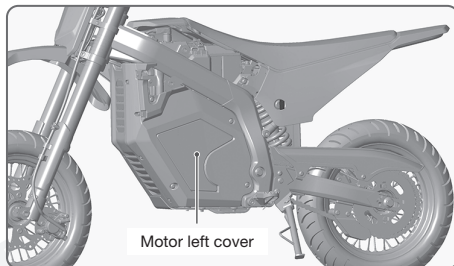
## 7.9 Motor Reduction Gearbox

Follow the steps below to replace the gear oil in the motor reduction gearbox.

- 1 Remove the left fender of the vehicle.

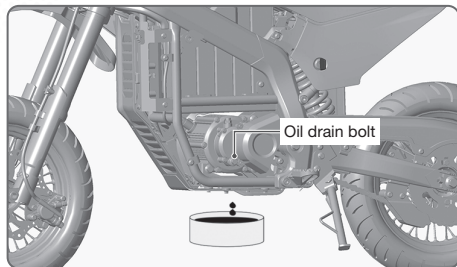


- 2 Remove the motor left cover.



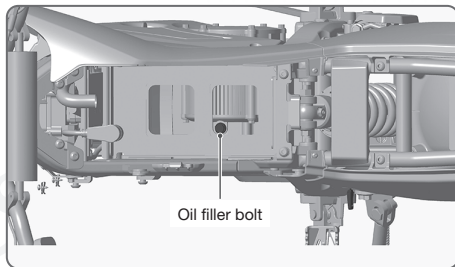
# Maintenance

- 3 Place an oil pan under the motor to collect the gear oil, then remove the oil drain bolt of the motor reduction gearbox to drain the gear oil.



- 4 After all the gear oil has drained, reinstall the oil drain bolt and clean the area around the bolt.

- 5 Remove the battery (see page 33), and look from top to bottom to locate the oil filler bolt of the motor reduction gearbox.



- 6 Remove the oil filler bolt and add 60 ml of gear oil (85W90 GL-5).
- 7 After refilling, reinstall the oil filler bolt and clean the area around the bolt.
- 8 Reinstall the cover that was removed.



## NOTICE

After reinstalling the oil drain bolt and adding gear oil, make sure there is no oil leakage from the reduction gearbox.



## 8. Troubleshooting

### 8.1 Troubleshooting of Common Malfunctions

No.	Items	Cause	Troubleshooting Methods
1	The vehicle cannot be started	<ol style="list-style-type: none"><li>1. The battery plug is not connected properly</li><li>2. The battery is over-discharged</li></ol>	<ol style="list-style-type: none"><li>1. Check if the plug is properly connected</li><li>2. Activate the battery</li></ol>
2	The vehicle cannot be ridden after powering on.	<ol style="list-style-type: none"><li>1. Low battery level</li><li>2. The start button is not pressed</li><li>3. Brake lever not returning properly or brake pedal malfunction</li></ol>	<ol style="list-style-type: none"><li>1. Charge the battery immediately</li><li>2. Press the start button</li><li>3. Check the brake lever or brake pedal</li></ol>
3	Insufficient power during riding or reduced mileage	<ol style="list-style-type: none"><li>1. Low tire pressure</li><li>2. Low battery level</li><li>3. Severe overload</li><li>4. Poor braking performance</li><li>5. Battery aging</li><li>6. The motor/controller/battery temperature is too high</li><li>7. The operating ambient temperature of battery is too low or too high</li></ol>	<ol style="list-style-type: none"><li>1. Inflate the tires to the recommended pressure</li><li>2. Charge the battery immediately</li><li>3. Use the vehicle within the recommended load capacity</li><li>4. Check the brake system and replace the brake pads regularly</li><li>5. Replace the battery</li><li>6. Wait for accumulated heat to dissipate before riding</li><li>7. Ride at the recommended ambient temperature</li></ol>
4	Cannot charge	<ol style="list-style-type: none"><li>1. The original charger was not used</li><li>2. Charger plug is disconnected or loose</li><li>3. Battery is over-discharged</li></ol>	<ol style="list-style-type: none"><li>1. Use the dedicated charger for charging</li><li>2. Ensure the charger plug is securely connected to the battery</li><li>3. Activate the battery</li></ol>
5	Others	Fault codes appears on the meter	Refer to the List of Fault Codes for solutions

## 8.2 List of Fault Codes

When a vehicle malfunction occurs, a fault code will be displayed on the meter (refer to page 24).

Fault Code	Name of malfunction	Description of malfunction	Solution
101	Total voltage is too high	When the total voltage is higher than 84.6 V, the battery enters the protected state and fault code 101 is triggered	It can be restored after being installed on the vehicle and used
102	Total voltage is too low	When the total voltage is lower than 56 V, the battery enters the protected state and fault code 102 is triggered	It can be restored after being charged with the charger
103	Cell voltage is too high	When the single-cell voltage is higher than 4230 mv, the battery enters the protected state and fault code 103 is triggered	It can be restored after being installed on the vehicle and used
104	Cell voltage is too low	When the single-cell voltage is lower than 2800 mv, the battery enters the protected state and fault code 104 is triggered	It can be restored after being charged with the charger
105	Cell voltage difference is too large	When the single-cell voltage difference is larger than 500 mv, the battery enters the protected state and fault code 105 is triggered	Have it repaired by your dealer
106	Charging temperature is too high	When the charging temperature is higher than 54°C, charging is forbidden, the battery enters the protected state and fault code 106 is triggered	Stop charging and restore after the temperature drops
107	Charging temperature is too low	When the charging temperature is lower than 0°C, charging is forbidden, the battery enters the protected state and fault code 107 is triggered	Stop charging, use the battery and charge after the temperature rises
109	Discharging temperature is too high	When the discharging temperature is higher than 70°C, the battery enters the protected state and fault code 109 is triggered	Restore after the battery temperature drops
110	Discharging temperature is too low	When the discharging temperature is lower than -20°C, the battery enters the protected state and fault code 110 is triggered	Place it in an environment in which the ambient temperature is between -15°C and 30°C
113	Excessive discharging current	When the discharging current is over 95 A, the battery enters the protected state and fault code 113 is triggered	Reinstall. If the problem persists, contact the dealer.
114	Excessive charging current	When the charging current is over 20 A, the battery enters the protected state and fault code 114 is triggered	Disconnect the charger from the power outlet and then reconnect

Fault Code	Name of malfunction	Description of malfunction	Solution
115	Primary over-discharge	When the total voltage is lower than 56 V, the battery enters the protected state and fault code 115 is triggered	It can be restored after being charged with the charger
116	Cell disconnection	When the single-cell voltage is 0 V, the battery enters the protected state and fault code 116 is triggered	Have it repaired by your dealer
117	Charging MOS damaged	When the charging MOS is damaged, charging is not possible, the battery enters the protected state and fault code 117 is triggered	Have it repaired by your dealer
118	Discharging MOS damaged	When the discharging MOS is damaged, charging is not possible, the battery enters the protected state and fault code 118 is triggered	Have it repaired by your dealer
119	Cell temperature sensor damaged	When the cell temperature sensor is damaged, the battery enters the protected state and fault code 119 is triggered	Have it repaired by your dealer
120	Charging MOS overheated	When the charging MOS temperature is higher than 100°C, the battery enters the protected state and fault code 120 is triggered	Stop charging and wait for the temperature to drop
121	Discharging MOS overheated	When the discharging MOS temperature is higher than 100°C, the battery enters the protected state and fault code 121 is triggered	Stop discharging and wait for the temperature to drop
122	Protection IC error	When error occurs in the battery IC control, the battery enters the protected state and fault code 122 is triggered	Have it repaired by your dealer
141	Phase loss in motor	The system shuts down and switches to P mode; phase loss in the motor is detected every time the power is turned on; the motor shakes during riding; the meter displays fault code 141, the buzzer rings 9 times in a row, and repeats ringing after an interval of 2s	Contact the dealer to determine whether the three-phase lines are disconnected. Do not perform test while the power is turned on.
142	Motor temperature signal disconnected	The system shuts down and switches to P mode; the meter displays fault code 142, the buzzer rings 11 times in a row, and repeats ringing after an interval of 2s	Contact the dealer to determine whether the motor temperature signal line is disconnected. Replace the wire harness if the cause cannot be determined. If the problem cannot be solved by replacing with new wiring harness, the motor temperature resistor may be broken.

Fault Code	Name of malfunction	Description of malfunction	Solution
143	Controller over-current	The system shuts down and switches to P mode; the meter displays fault code 143, the buzzer rings 2 times in a row, and repeats ringing after an interval of 2s	Turn on the power again to clear the fault. If the malfunction persists, contact the dealer
144	Controller overheated	The load is reduced when the controller temperature reaches 90°C (the meter displays fault code 144); when the temperature reaches 100°C, the system shuts down and switches to P mode (the meter displays fault code 144, the buzzer rings 6 times in a row, and repeats ringing after an interval of 2s)	Turn off the power and wait for more than 2 minutes. Turn on the power again to clear the fault. If the malfunction persists, contact the dealer
145	Meter communication failure	When the meter displays fault code 145 or is damaged, the system switches to P mode. At this time, the controller is in Mode 3 by default (P mode needs to be released). You can still push the button to start and ride normally.	Contact the dealer to determine whether the meter CAN line is disconnected. If the meter is damaged, replace with new one
146	Current sensor malfunction	The system shuts down and switches to P mode; the meter displays fault code 146, the buzzer rings 12 times in a row, and repeats ringing after an interval of 2s	Turn on the power again to clear the fault. If the malfunction persists, contact the dealer
147	Speed sensor malfunction	The system shuts down and switches to P mode; the meter displays fault code 147, the buzzer rings 1 time, and repeats ringing after an interval of 2s	Turn on the power again to clear the fault. If the malfunction persists, contact the dealer
148	Battery under-voltage	When the bus voltage remains below 61V for 3s, the system shuts down and switches to P mode; the meter displays fault code 148, the buzzer rings 5 times in a row, and repeats ringing after an interval of 2s	Turn on the power again and if the bus voltage exceeds 62 V, the fault will be cleared. Charge the battery immediately. If the malfunction persists, contact the dealer
149	Controller over-voltage	The system shuts down and switches to P mode; the meter displays fault code 149, the buzzer rings 4 times in a row, and repeats ringing after an interval of 2s	Turn on the power again to clear the fault. If the malfunction persists, contact the dealer

# Troubleshooting

Fault Code	Name of malfunction	Description of malfunction	Solution
150	Motor overheat	The load is reduced when the motor temperature reaches 120°C (the meter displays fault code 150); when the temperature reaches 130°C, the system shuts down and switches to P mode (the meter displays fault code 150, the buzzer rings 7 times in a row, and repeats ringing after an interval of 2s)	Turn off the power and wait for more than 2 minutes. Turn on the power again to clear the fault. If the malfunction persists, contact the dealer
151	Throttle grip failure	The system shuts down and switches to P mode; the meter displays fault code 151, the buzzer rings 3 times in a row, and repeats ringing after an interval of 2s	Contact the dealer to determine whether the throttle signal line is disconnected. Replace the throttle converter or wire harness if the problem cannot be solved
152	Battery communication failure	The system shuts down and switches to P mode; the meter displays fault code 152, the buzzer rings 14 times in a row, and repeats ringing after an interval of 2s	Contact the dealer to determine whether the battery CAN line is disconnected
153	Motor stalling	The motor output shaft stalls for more than 2s, the meter displays fault code 153, and the fault is automatically cleared after 3s	Fully release the throttle to restore. If the malfunction persists, contact the dealer
154	MOS transistor failure	The system shuts down and switches to P mode; the meter displays fault code 154, the buzzer rings 8 times in a row, and repeats ringing after an interval of 2s	Turn on the power again to clear the fault. If the malfunction persists, contact the dealer to replace the controller
155	Controller temperature sensor failure	The system shuts down and switches to P mode; the meter displays fault code 155, the buzzer rings 10 times in a row, and repeats ringing after an interval of 2s	Contact the dealer to replace the controller or wire harness
156	Controller 12 V power supply failure	The system shuts down and switches to P mode; the meter displays fault code 156, the buzzer rings 13 times in a row, and repeats ringing after an interval of 2s	Contact the dealer to replace the controller or wire harness



## 9. Other Information

### 9.1 Caring for Your Vehicle

Regular cleaning and polishing help to ensure the long service life of your vehicle. A clean vehicle makes it easier to find potential faults.

After riding, allow the motor, brakes and other high-temperature parts to cool down before cleaning.



- ▶ Do not use high-pressure cleaners to clean the vehicle, as it may damage the moving parts or electrical components.
- ▶ Water adversely affects braking effectiveness. After cleaning the brakes, ride at low speed and apply the brakes intermittently to help dry the brakes.
- ▶ Do not clean the lithium battery or battery terminals with water or detergents.
- ▶ Do not clean the area under the seat with water, as this may cause a short circuit in the electrical components.
- ▶ Do not wax the tires, brakes or matte finishes.
- ▶ Wash your vehicle with cold water immediately after riding on roads with high content of salt spray or near the sea. Do not use warm water, as it may accelerate the chemical reactions with salt and increase corrosion.

### 9.2 Storing Your Vehicle

If you store the vehicle outdoors for an extended period of time, use a motorcycle cover to protect the entire vehicle.

If you intend to store the vehicle for an extended period of time, follow these guidelines:

- To prevent deterioration of the performance of the power battery, store your vehicle in a dry, well-ventilated, and shaded place.
- Check the battery level at least once every two months and recharge as necessary.
- After rain, remove the motorcycle cover to keep the vehicle dry.

### 9.3 Transporting Your Vehicle

If you need to transport your vehicle, use a dedicated motorcycle trailer, or a flatbed truck or trailer equipped with a loading platform, lifting platform and tie-downs.

When towing the vehicle, do not allow the wheels to touch the ground.



- ▶ Towing the vehicle may seriously damage its drive train.
- ▶ If you need to move the vehicle manually, make sure to wear protective gloves. Take care to prevent your body parts from being pinched by the vehicle components during transport, especially by the wheel hub, front and rear brakes.

#### ▼ Environmental Protection

Use environmental-friendly cleaning agents.

We recommend using biodegradable detergents when washing your vehicle. Avoid cleaning agents that contain chlorofluorocarbons, which may damage the atmospheric ozone layer.

#### ▼ Recycle Wastes

This vehicle uses lithium battery, which can harm the environment if not properly disposed of or discarded. If your vehicle requires replacement of battery or accessories, or is ready for disposal, contact your authorized dealer.

#### ▼ Waste Liquid Disposal

Dispose of waste liquids (such as used brake fluid) properly to avoid environmental pollution.

## 10. Specifications

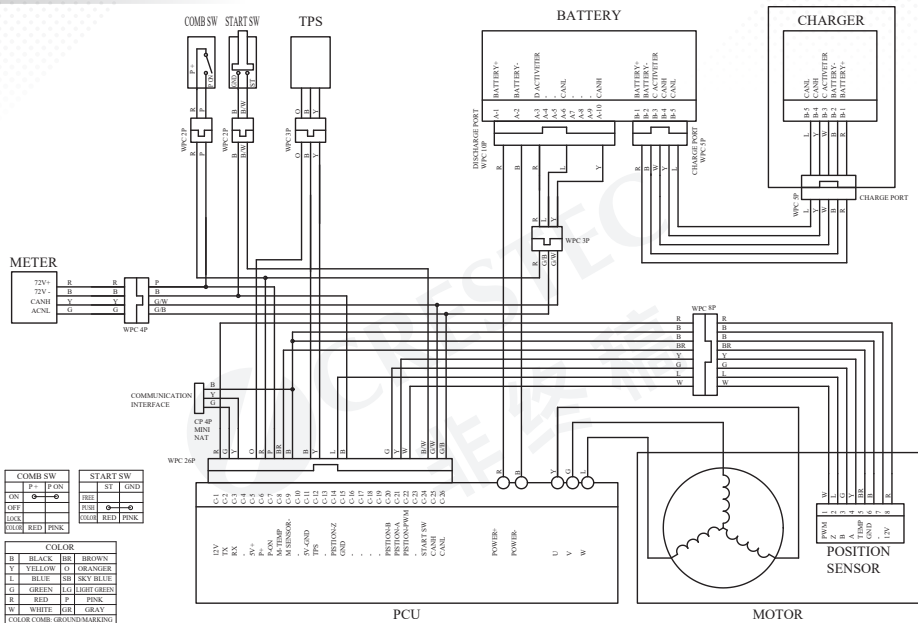
### ▼ General Specifications

Drive Unit	
Electric Motor	72 V- PMSM motor with inner rotor
Rated Power	3.0 kw/5200 rpm
Peak Power	6.0 kw/5700 rpm
Torque	Rated: 5.5 Nm; Max.: 37 Nm
Max. Motor Speed	5700 rpm
Final Drive	1:6.68
Max. Speed	46 mph (75km/h)
Drive Mode	1st gear: 15 mph (24 km/h), 2nd gear: 30 mph (48 km/h), 3rd gear: 46 mph (75 km/h)
Max. range	55 km (50 km/h)      Acceleration: 5.69 s (0 ~ 50 km/h)
Cooling System	Air Cooled
Battery	Lithium-Ion, Weight: 16 Kg
Battery Size (L x W x H)	250 x 125 x 285 mm
Capacity/Energy	35 Ah/2520 Wh
Charging Power	1000 W/11 A
Charging Input	6A@100 ~ 240 V (AC)
Charger Line Voltage	100 - 240 V/50-60 Hz
Charging Time 100%	4h
Charging Time 80%	3h

## Specifications

Chassis	
Vehicle Size (L x W x H)	1550 x 750 x 947 mm
Wheel Base	1070 mm
Handlebar Height	910 mm
Seat Height	685 mm
Ground Clearance	210 mm
Steering Head Angle	45°
Frame	Aluminum Double Girder Double-Cradle-Type
Handlebar	Aluminum ø22 mm
Rake (Caster Angel)	25°
Trail	46 mm
Front Suspension	Hydraulic Fork ø33 mm, Length 650 mm
Rear Suspension	DNM Adjustability, Length 270 mm
Suspension Travel, Front/Rear	122 mm/155 mm
Front Brake	Disc Brake ø220 mm
Rear Brake	Disc Brake ø190 mm
Front Rims	J14*1.4
Rear Rims	J12*1.85
Front Tires	70/100-14
Rear Tires	80/100-12
Chain	428H
Net Weight	154 lbs (70 kg)
Max. load	132 lbs (60 kg)

# 11. Electrical Schematic





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# GREENGER

Owner's Manual