

GUNAI GN21



<http://www.gunai.store/>

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1. Safety and Precaution

1.1 WARNING

1. Operating of an electric motorcycle carries inherent risks. Under specific circumstances, elements of the motorcycle might malfunction, not due to any flaw in their creation. The motorcycle, designed for movement, holds the potential for instances where control is relinquished, resulting in falls, accidents, or perilous scenarios that surpass the effectiveness of cautiousness, guidance, or skill. In the event of such occurrences, grave injuries or loss of life can ensue, irrespective of the utilization of protective gear and other safety measures. Undertake this ride activity with an understanding, **RIDE AT YOUR OWN RISK AND ALWAYS USE COMMON SENSE.**

2. The instruction user manual contains many warnings and cautions, user should concern the consequences of failing to inspect, maintain when use your electric motorcycle. We declare that users are injured or even death under warnings and reminders. We have repeatedly reminded each warning, and the responsibility is borne by the user.

3. Those who haven't read this user manual carefully in advance are not allowed to use this electric motorcycle.

4. Install all the parts of this electric motorcycle properly following this user manual, otherwise improper installation may lead to control failure, collision or crash. Turn the power off before installation, repair or maintenance. Install the parts appropriately, neither too loose nor too tight, otherwise it might cause damage or failure

1.2 Rider Use

- The recommend user age is 18 years or older. The rider that not fit the age should not attempt to ride this electric motorcycle. Age requirement: 18-50 years old. Tips for parents: as a parent or a guardian, you are responsible for your child's activities and safety. It is highly recommended that your child is kept away from the motorcycle.

- Persons with the following conditions shall be cautioned not to operate: Those with heart conditions, pregnant women, persons with head, back, or neck ailments, or prior surgeries to those areas of the body. Persons with any mental or physical conditions that may make them susceptible to injury or impair their physical dexterity or mental capabilities to recognize, understand, and perform all of the safety instructions and to be able to assume the hazards inherent in unit use Before ride,

please check the local laws or regulations which may affect the locations where the electric motorbike may be used.

- Before ride, please check the motorcycle status, ensure everything is safe then start the riding.

1.3 SAFE RIDING ATTIRE

- Require wear proper protective equipment:

 - Approved safety helmet (Always required wear helmet for all location);

 - Gloves;

 - Elbow & knees pads;

 - Long pants;

- Fasten shoes with laces and rubber soles. Refrain from riding without footwear or in open-toed shoes.

- It is recommended you wear goggles to keep your eyes away from contaminants, dust and insects. Please wear goggles with darker glasses in strong light and more transparent glasses in poor light.

- DO NOT ride in high-heeled shoes

1.4 Battery



WARNING: Do not store the battery in temperatures above 70°F (21°C) or below 32°F (0°C). Make sure to wash your hands after handling batteries as they contain chemical compounds.



WARNING: Do not dispose of batteries in a fire. The batteries may explode. Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.

The product contains lithium-ion (LFP) batteries that must be processed according to applicable local regulations concerning batteries. You should not discard the Lithium-Ion battery or the Lithium-Ion batteries in the trash. This product contains sealed, Lithium-Ion batteries and must be disposed of properly. For more information, contact your local recycling/reuse or hazardous waste center.

1.5 Prohibited Road Section

- DO NOT drive on the highway & motorway
- DO NOT drive on roads with slopes higher than 30°, and never risk passing the abrupt slope, uneven surface or other unfamiliar terrains
- DO NOT ride indoors or on surfaces that could become damaged such as carpet or flooring. It is prohibited that you practice outdoor until you have been sufficiently familiar with the operation methods of the motorcycle. The more times you practice, the safer you can ride in new circumstances. Please note the essentials of practice: what you need first is primary practice in an obstacle-free area (>10m×10m) to practice riding forward, making turns and stopping. Keep yourself relaxed while practicing. When you practice for the first time, it is recommended that you do this with the guidance of an experienced person or coach. Try to practice passing narrow areas, turning and stopping as your practice deepens. You are not allowed to ride on normal roads until you are able to control your motorcycle to pass a narrow area precisely and have simulated all types of terrains. You may have a different riding experience every time you have your electric motorcycle upgraded. Therefore, see to it that you practice in the same obstacle - free area as if you were a beginner for the first time you ride the motorcycle after upgrading.
- DO NOT ride on water, mud ice, bumpy, uneven, slick or rough surfaces. immerse the motorbike in water; electrical and drive components could be damaged by water or create other possible unsafe conditions.
- DO NOT ride in areas of limited visibility.
- DO NOT ride on the motor way or run a red light. Follow traffic rules and give way to pedestrians. Please respect the rights of the others who share the road or path with you, including motor cyclists, cyclists, pedestrians and other riders. Strengthen your awareness of self-protection while riding. Watch out for yourself, vehicles and pedestrians.

1.6 Overload

- DO NOT load over 150KG when using motorbike.

1.7 Inclement weather

- DO NOT ride in inclement weather such as rainy, wet, humid, dry, arid, frigid, foggy, windy, or stormy.
- DO NOT dip the battery and motorcycle frame into water, expose it to storms or ride in the rain for a long time. DO NOT clean the motorcycle with powerful water stream or a high-pressure water gun to avoid waterlog in the charging port. In the event that your motorcycle is exposed to storms for a long time, please stop using it immediately, wipe it with a piece of dry soft cloth, and contact after-sale service personnel. DO NOT do anything other than wiping the motorcycle in case of voided warranty due to any misconduct.

1.8 High temperature operation parts

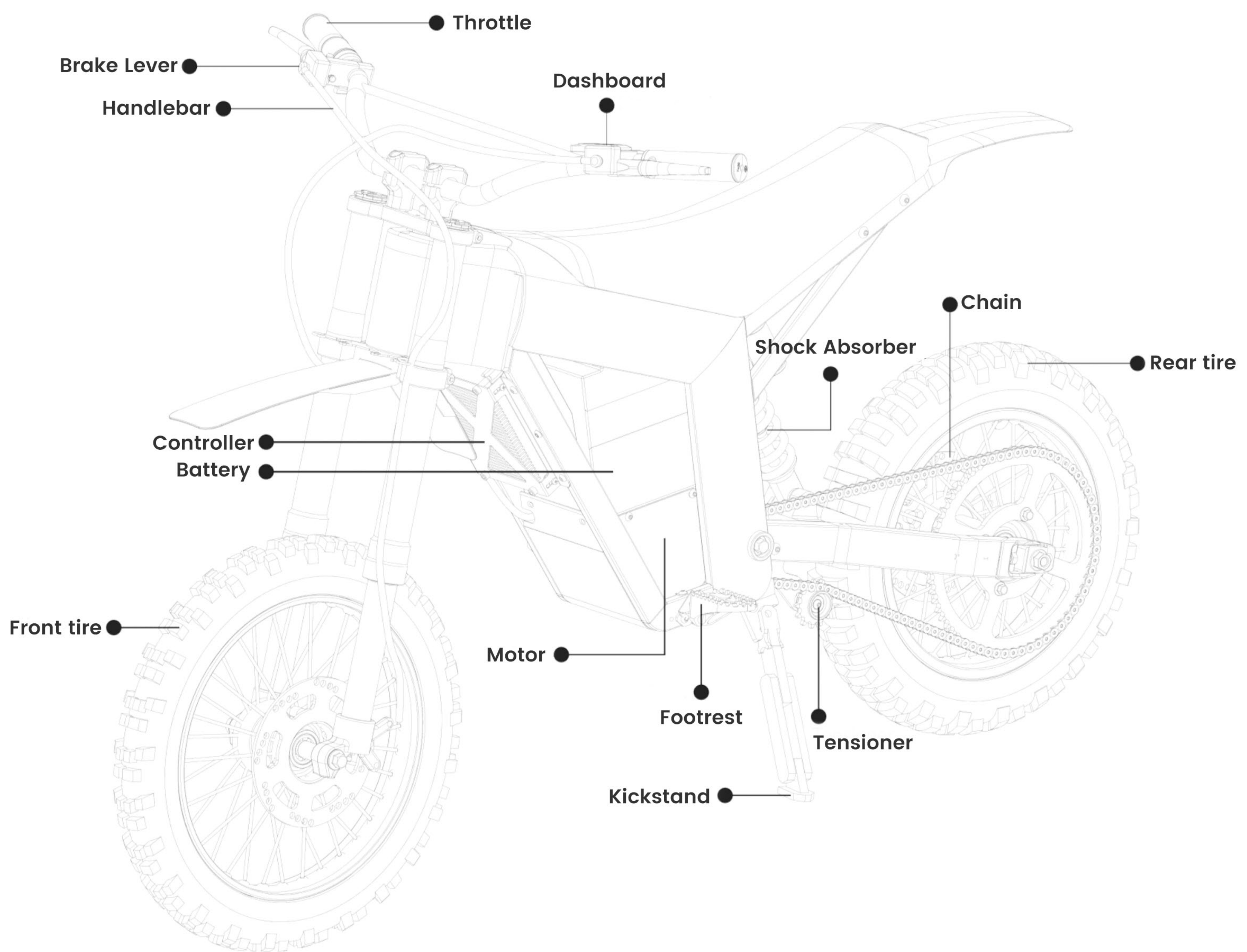
- DO NOT touch the motor or brakes on the motorbike when after use as these parts can become extremely hot and damage body skin.

1.9 Minimize risk

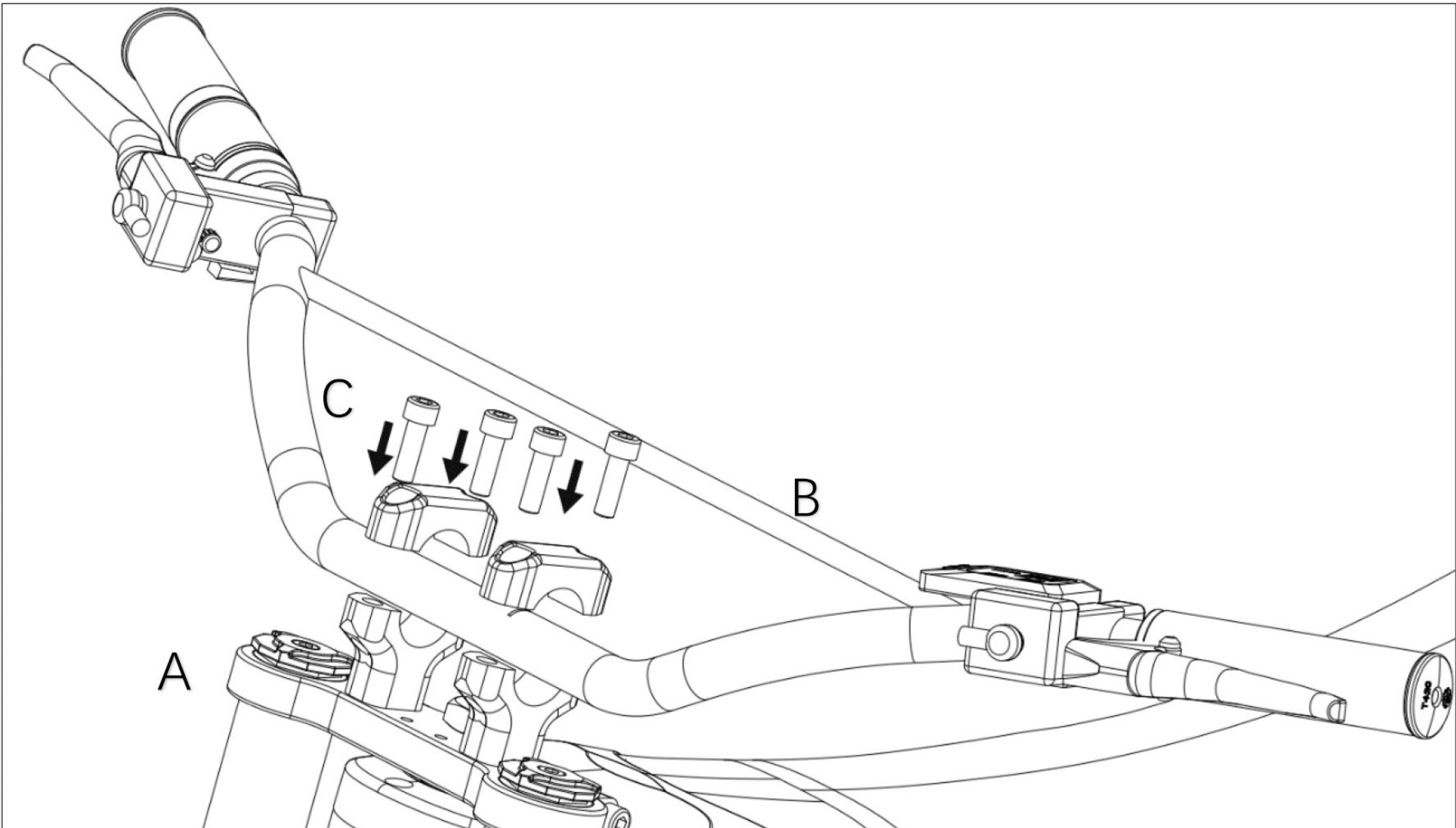
- To minimize your risk and make life endanger, always maintain a hold with both hands on the handlebars when user start riding, DO NOT doing any High-Risk Maneuver to increase the risk while riding
- DO NOT use your motorcycle as a cargo carrier
- When approaching or crossing an intersection, motor way, turning or passing by a door/gate, please slow down and give way to the pedestrians, bicycles and motor vehicles.
- DO NOT ride your motorcycle when you are sick or cannot fully comply with the instructions specified in this user manual, or after you take medicine or drink alcohol.
- Obey local traffic law and regulations which may affect the locations where the electric motorcycle may be used. You are obliged to be informed of and observe the laws of the place where you are located.

2. Assembly

Structural Diagram



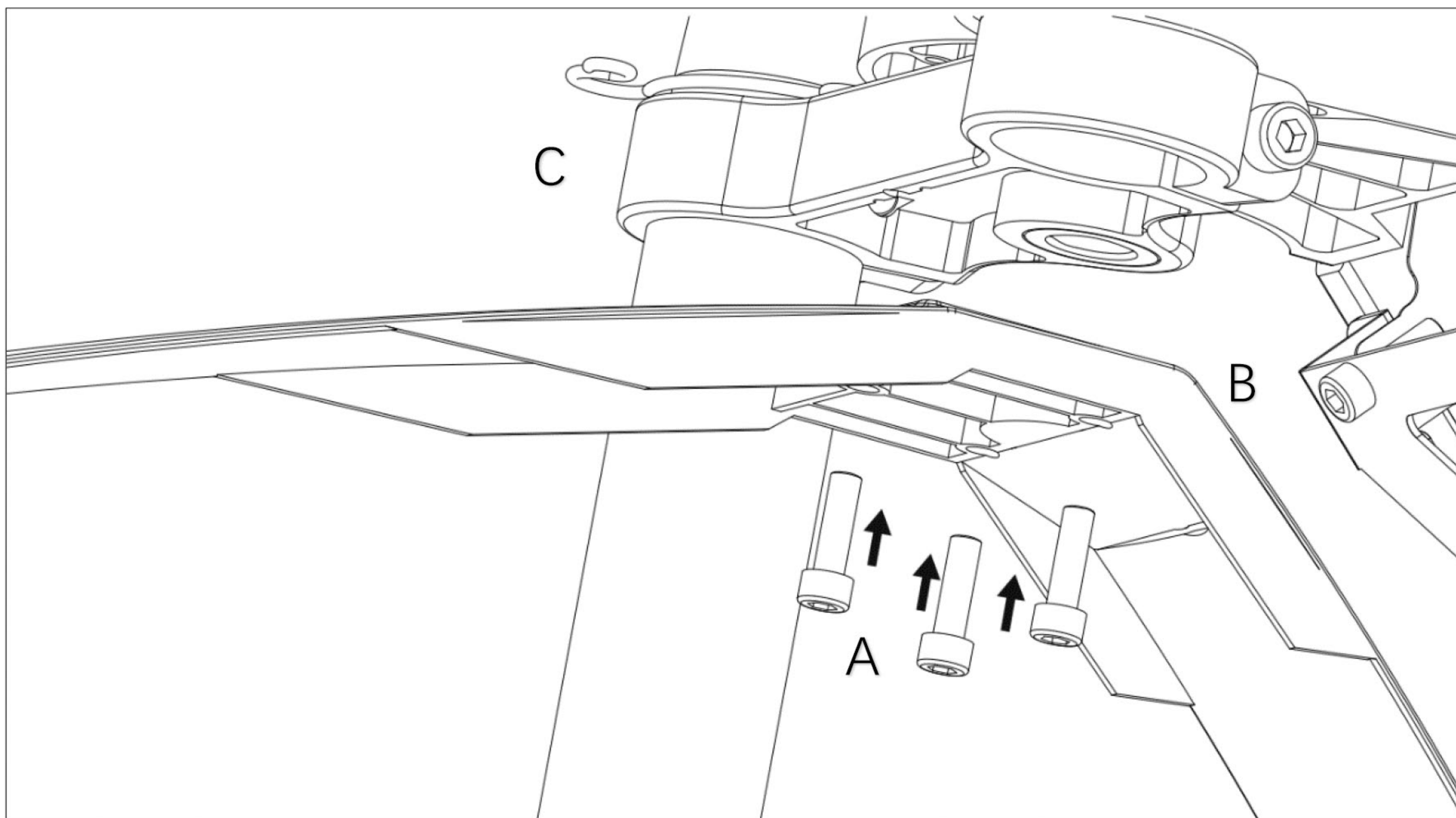
2.1 Handlebar assembly



A: Handlebar clamp;B: Handlebar;C: Screw (4)

Handlebar (B) vertically and horizontally onto the handlebar clamps(A),
Install and tighten 4 screws with 6mm hex wrench. Press and pull the handlebar after
installation, ensure the handlebar is tight by applying pressure, handlebars should
not move backwards or forwards.

2.2 Front fender assembly



A:Screw (3);B:Front fender;C: Triple clamp

Front fender (B) vertically and horizontally onto the Triple clamp (C). Install and
tighten 3 screws with 5mm hex wrench cross and fix the front fender. Press and
pull the front fender after installation, ensure the front fender is tight by applying
pressure, front fender should not move backwards or forwards.

2.3 Front Wheel assembly

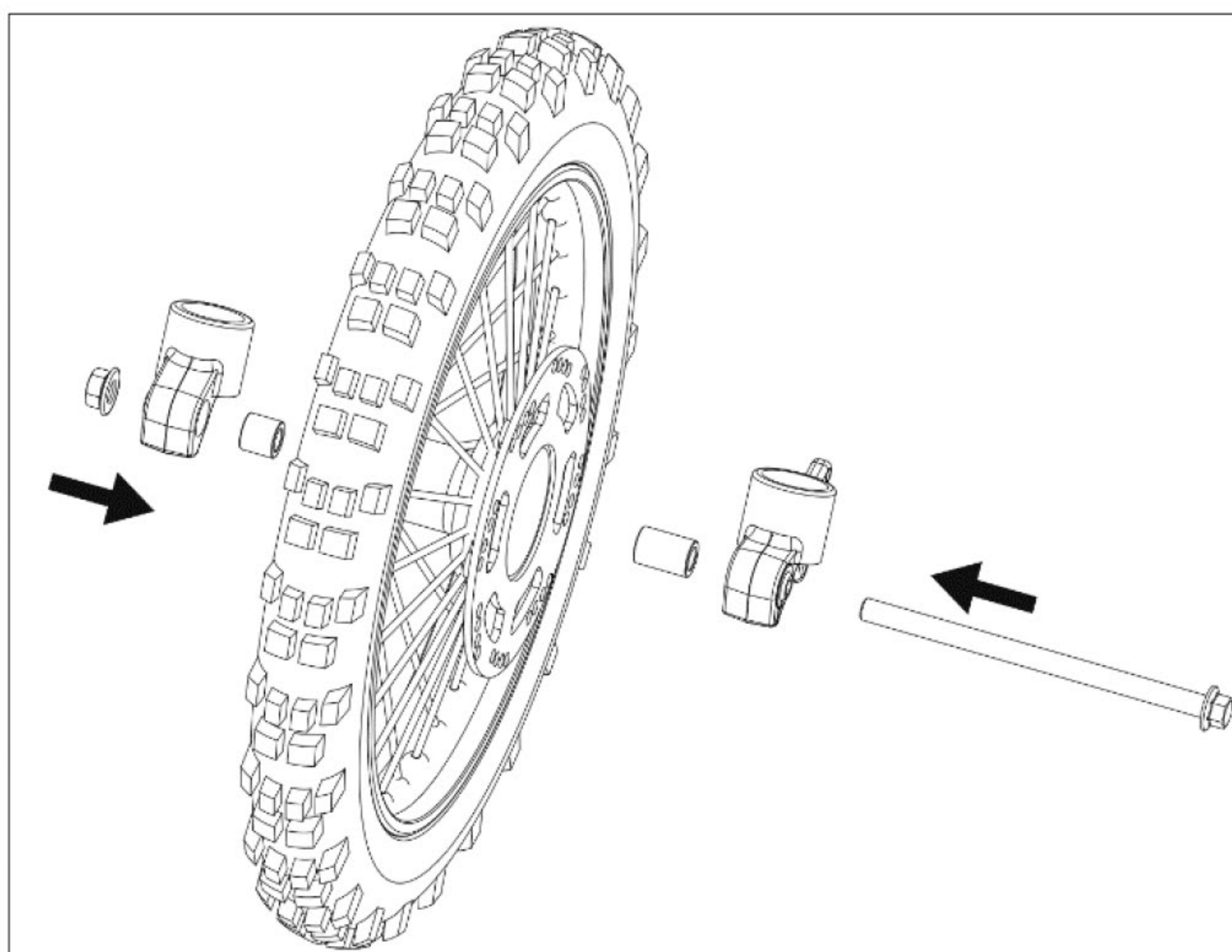


Figure 2.3.1

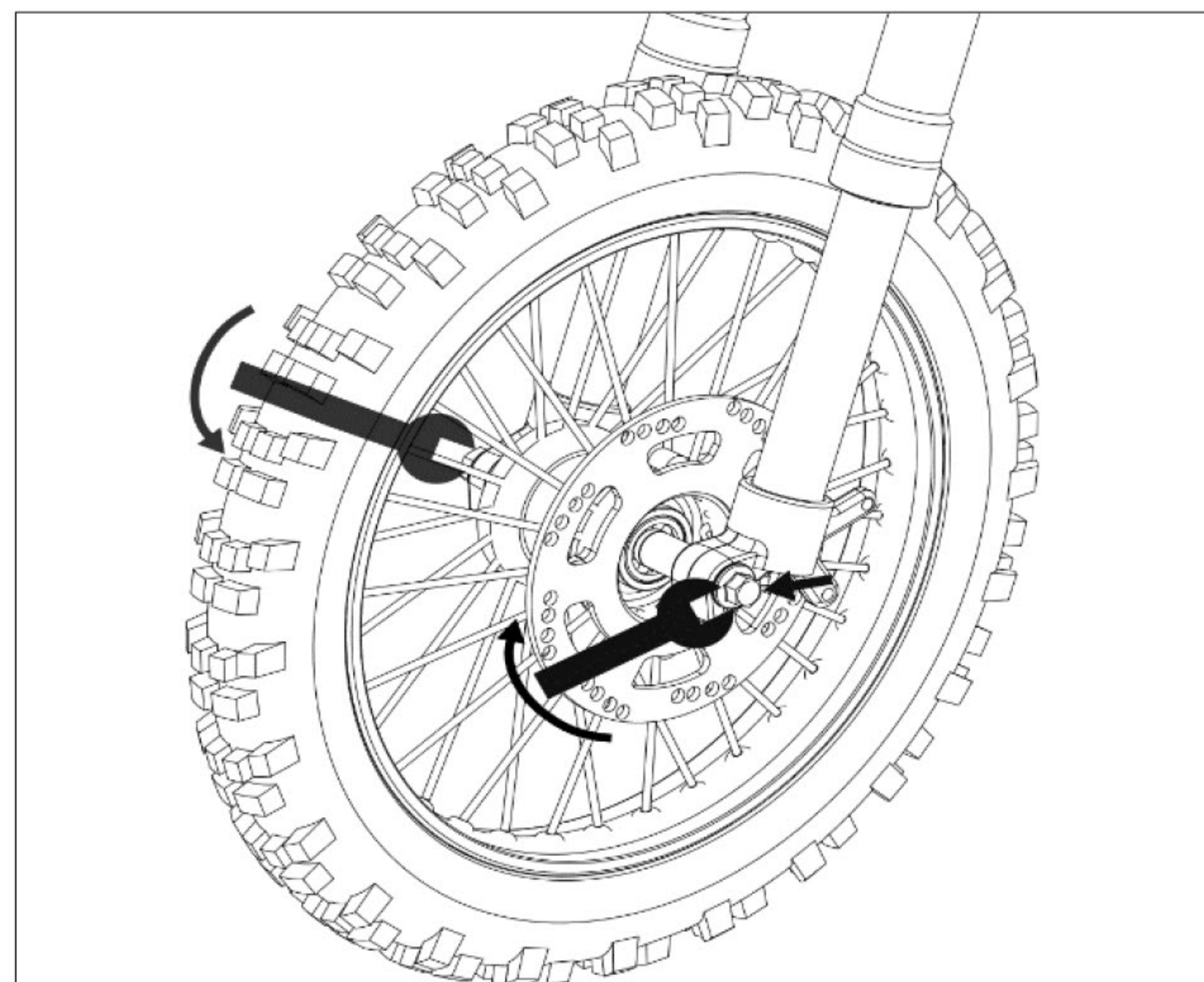
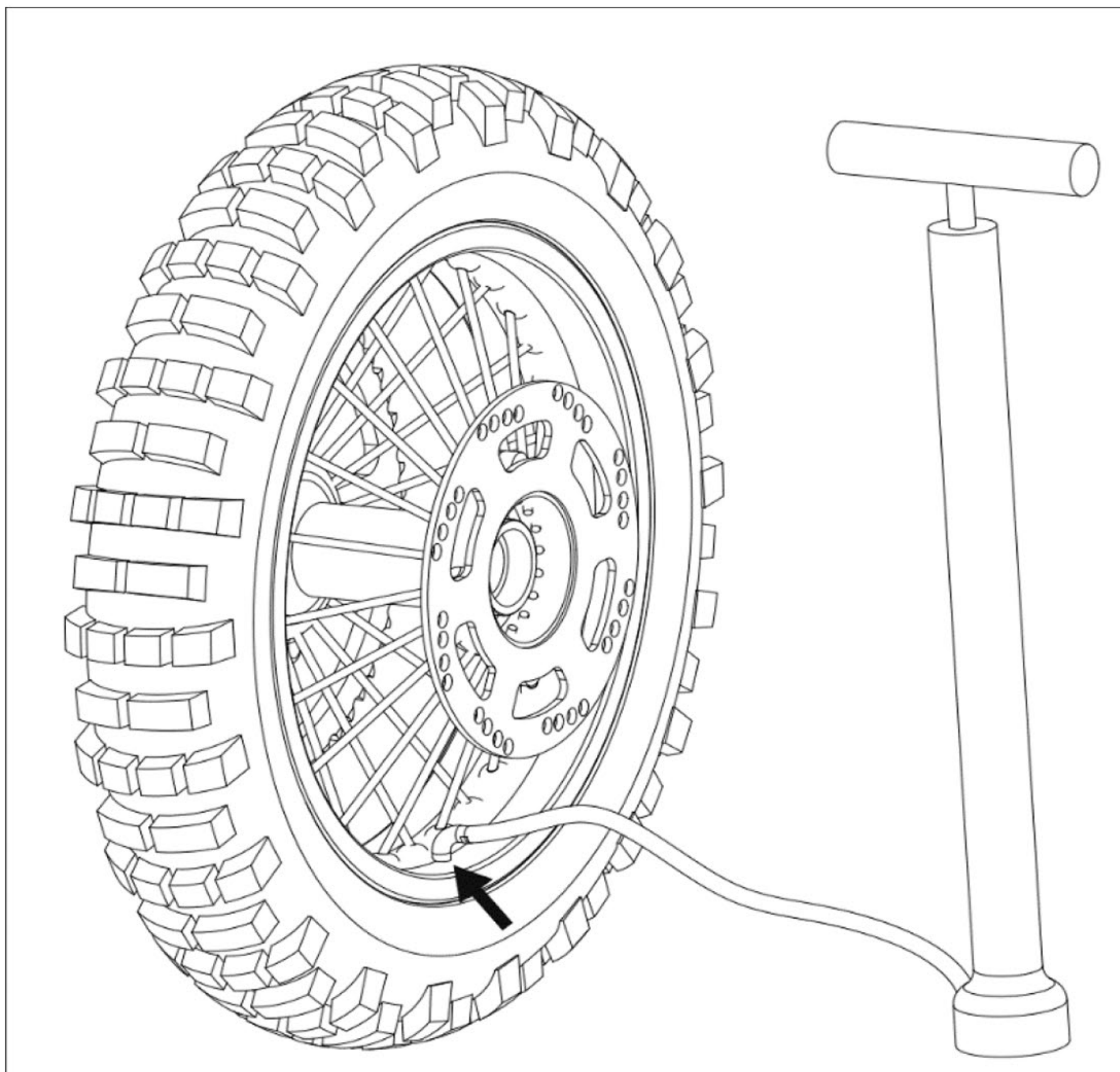


Figure 2.3.2

1.Follow Figure 2.3.1, Install front axle and hardware through front wheel.

2.Follow Figure 2.3.2,Ensure that safety washer tabs are inserted into fork leg hole and tighten axle hardware securely with a 14mm and 17mm wrench.

2.4 Tire Inflation



Tool Required: Air/tire Pump

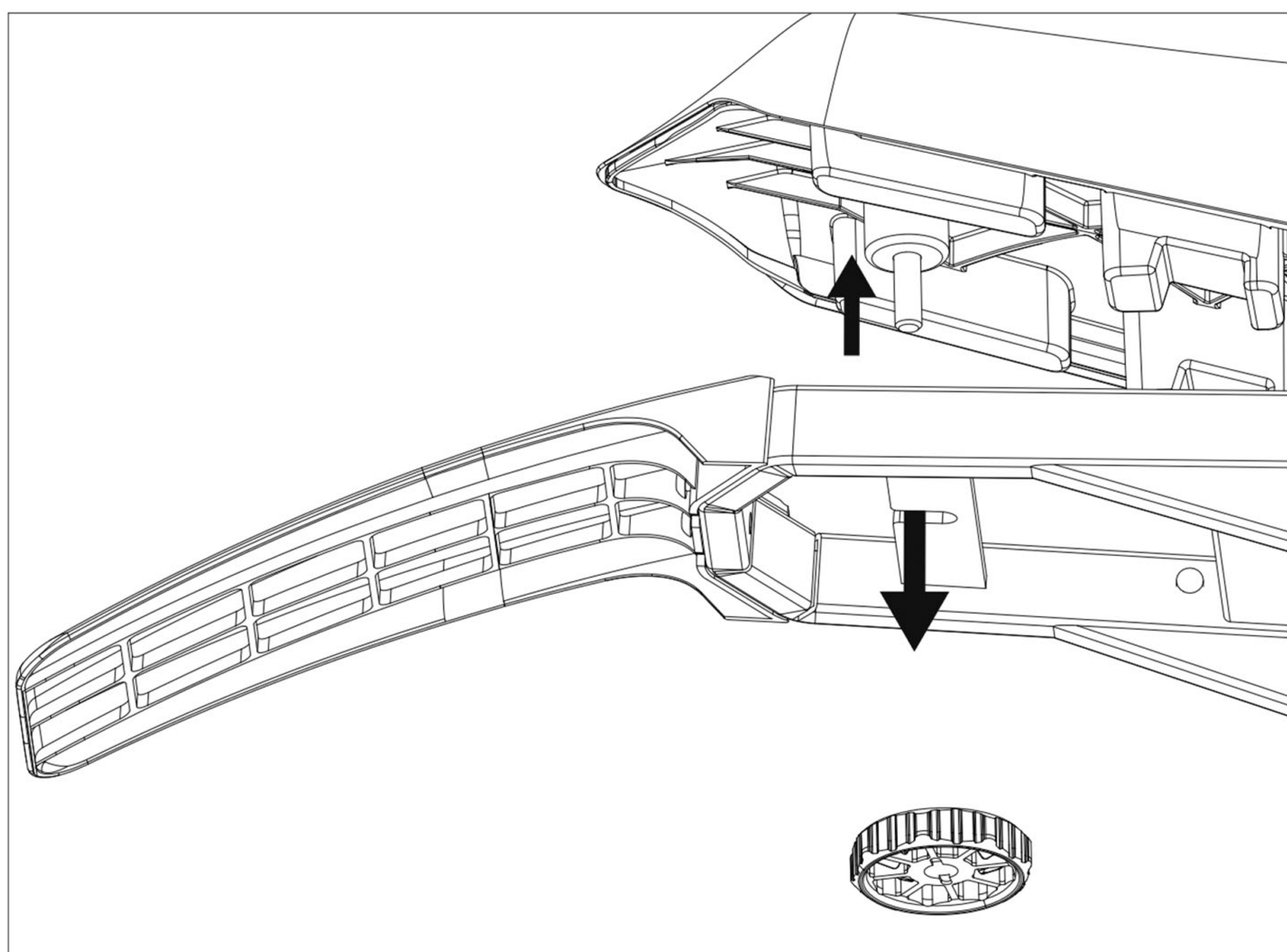
Tire is inflated to the maximum PSI prior to shipping however some air pressure maybe lost between the manufacture date and your purchase date. Using a hand pump with a Schrader-type valve and pressure gauge inflate the tires. It is not recommended to use pressurized system similar to the ones found at gas stations as these are designed to inflate automobile tires that have much higher air capacity volumes.

⚠ WARNING: ENSURE REAR TIRE IS AT THE CORRECT PSI BEFORE RIDING THE MOTORBIKE.

2.5 Charging and Remove battery

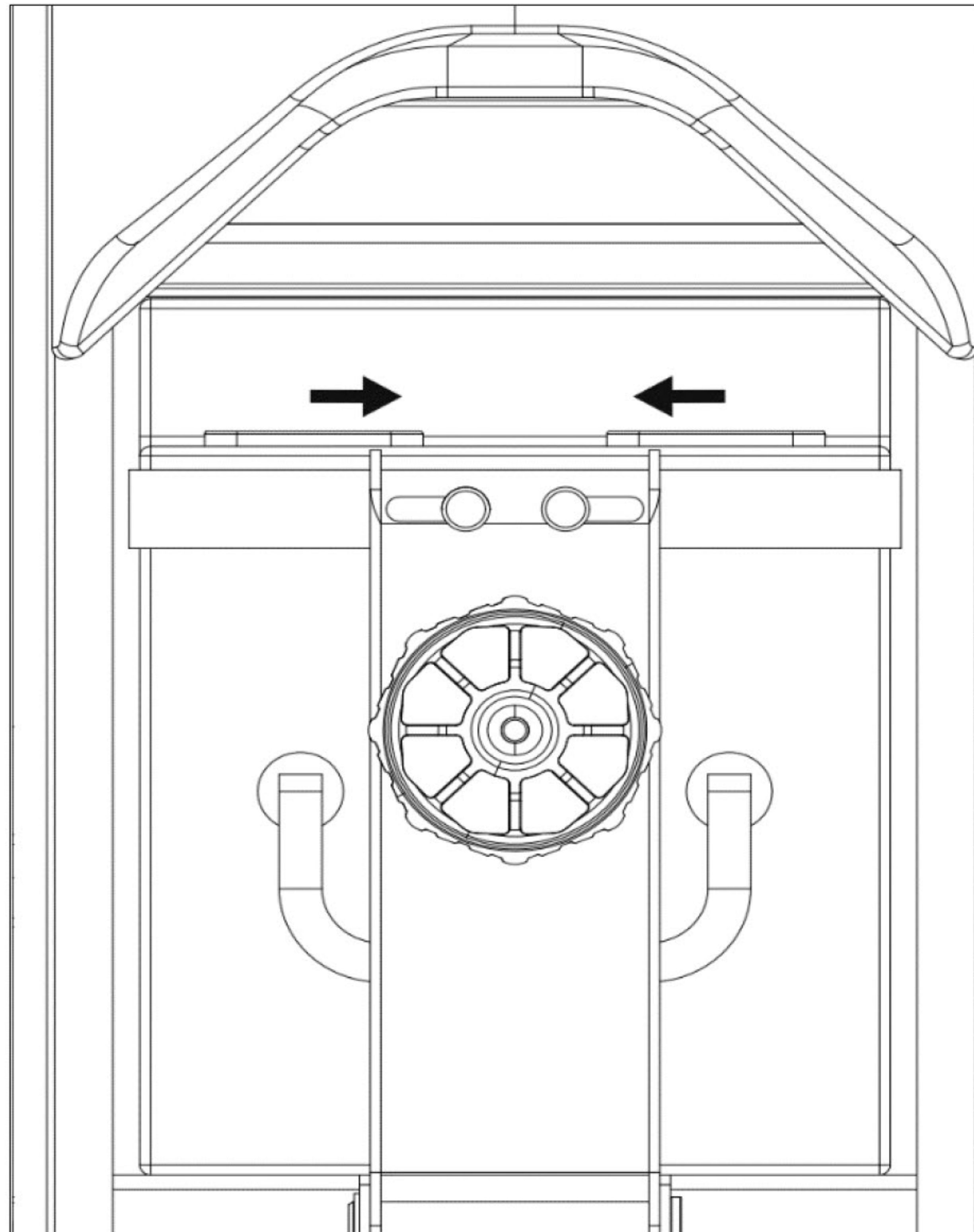
The battery for this product is removeable battery, to remove the battery please follow the following steps

2.5.1 Unlock the tail lock



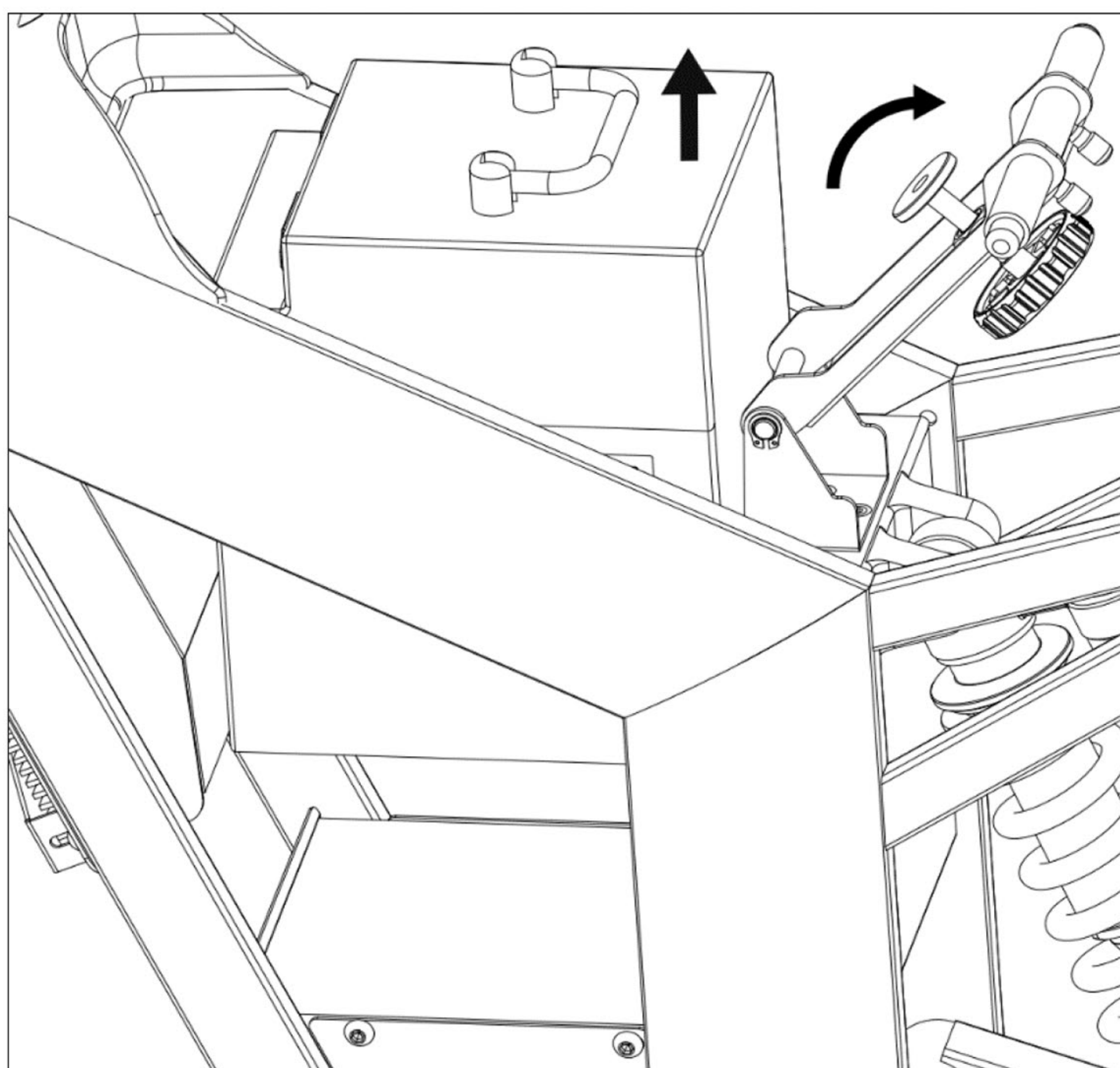
Spin the rotating tail lock, after spinning pull out the lock and remove the seat from body frame

2.5.2 Unlock the battery compartment



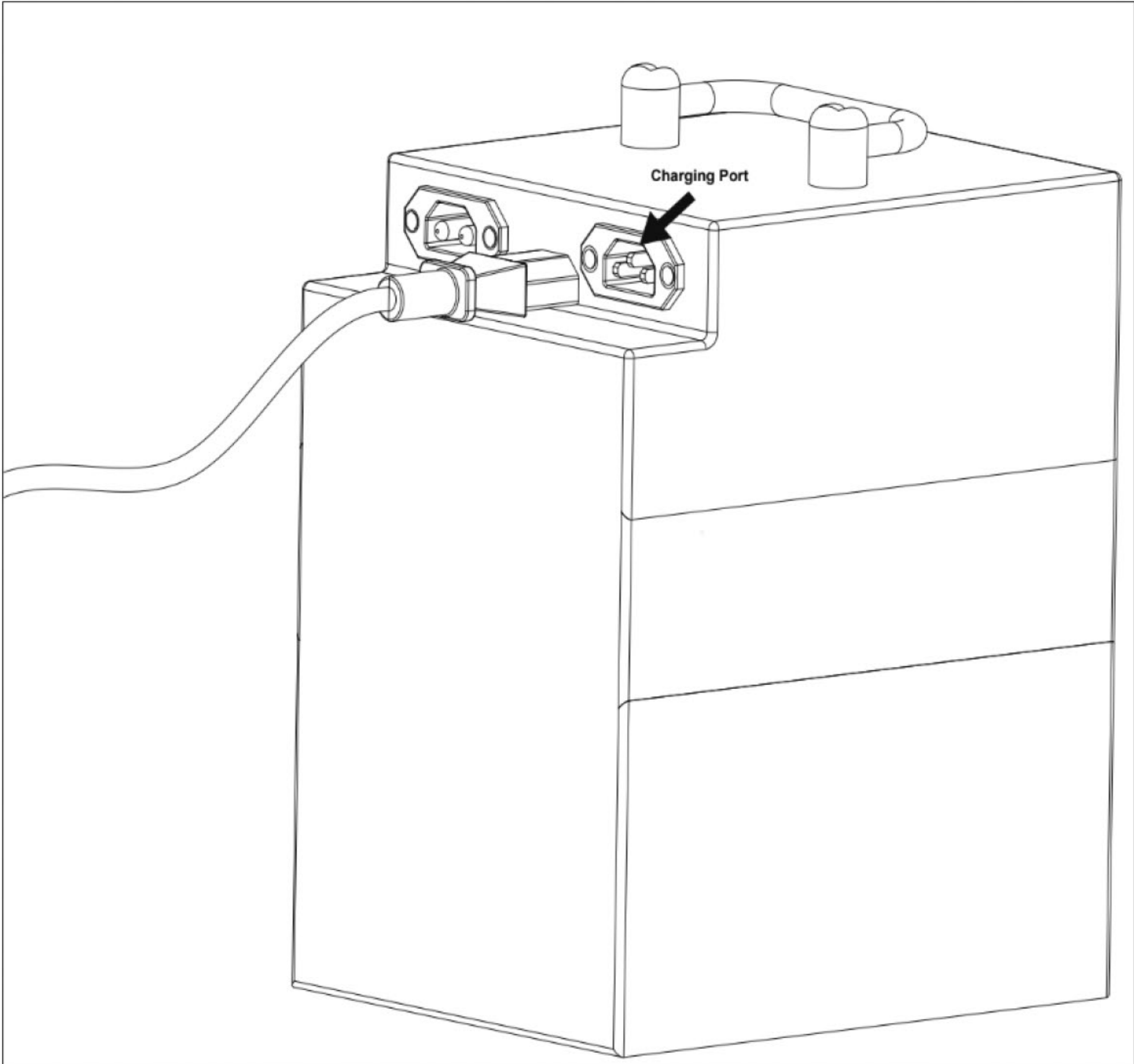
Press the locks of the battery compartment toward the center on both sides to open the battery compartment (the rotating lock in the center of the battery compartment is used to fix the battery and prevent shaking during riding. When closing the battery compartment, please tighten the rotating lock in the middle ensure no gap to secure the battery compartment)

2.5.3 Remove battery



Open the battery compartment, disconnect the power cable and take out the removeable battery

2.5.4 Charging



Take out the battery from battery compartment, the charger corresponds the charging port (the 3 pin Socket) to charge battery, approximate 7-8hrs get full power (0-100%)

DO NOT charge when the slot/socket is wet.Charge the motorbike with correct power supply.While charging, keep children, pet or inflammables away from the motorbike.



WARNING: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

3.0 Specification & Parameter Table

Product Specification

Project	Content	Parameter
Basic information	Brand	GUNAI
	Model	GN21
	Weight (Include battery)	47.7KG

Riding Requirements	Age	13-50
	Max load	150KG
Main Specification	Rate Power	1200W
	Peak Power	3000W
	Range (Battery fully charged)	40KM
	Seat Height	70cm
	Wheelbase	21.5cm
	Minimum Ground clearance	104cm
	Climbing ability	30°
	N.W.	47.7KG
	G.W.	56KG
Battery	Battery type	Li-ion battery
	Capacity	21Ah
	Input Charing voltage	AC 110V-230V/50-60Hz
	Charing time	7-8hrs
	Nominal voltage	48V
Motor	Motor type	Brushless Motor
	Motor rate power	1200W

Motor	Motor maximum Rotating speed	3500RPM
	Rate voltage	48V
Temperature	Applicable temperature	32°F~86°F
	Applicable temperature for storing battery	(Most applicable temperature range for storing battery is 68°F~45°F)
Size	Product Size	1520*790*1000mm
	Package size	1370*300*1010mm

Note: The value of the cruising range will vary greatly due to different test environments. The range test is the actual measured data of the product when the rider weighs 70kg, the ambient temperature is 25°C, and the speed is 20km/h.

GUNAI is committed to continuously improving product performance. Product specifications and manual content may be changed in the future without prior notice. Please understand! If the icons, pictures, etc. in the manual are different from the actual product. Please refer to the actual product.

4.0 Start and Operation

4.1 Pre-ride inspection

Before riding, always check the following hardware, for your safety

– Brake Lever

Check whether the braking system works flexibly and make sure that the power is cut off when braking. ensure the brakes are working properly, have the appropriate tension,the brakes can react in time and stop the tires from running.

– Throttle

Make sure that before throttle is twisted that you are in an open and safe area to ride, you are balanced on the motorbike and have both hands on the handlebar controls.

- Tire

Check whether the wheels rotate well and whether tire pressure is in a normal range. Make sure your rear tire is at the correct PSI before riding the motorcycle

- Battery

Check whether the battery has been fully charged. Make sure the power switch is turn off whenever the motorcycle is not in use. Never store the product in freezing or extremely high temperatures (our recommended temperature is (68°F (20°C) - 45°F (7°C))). The extreme temperatures will permanently damage the battery. In the event of low battery, the motorcycle may not run at a high speed continuously as expected. You may charge it for better riding experience.

- Frame & Fork

Always inspect your motorbike before you ride. Check for cracks, broken worn or loose components which should be repaired or replaced before you ride

- Dashboard (Display)

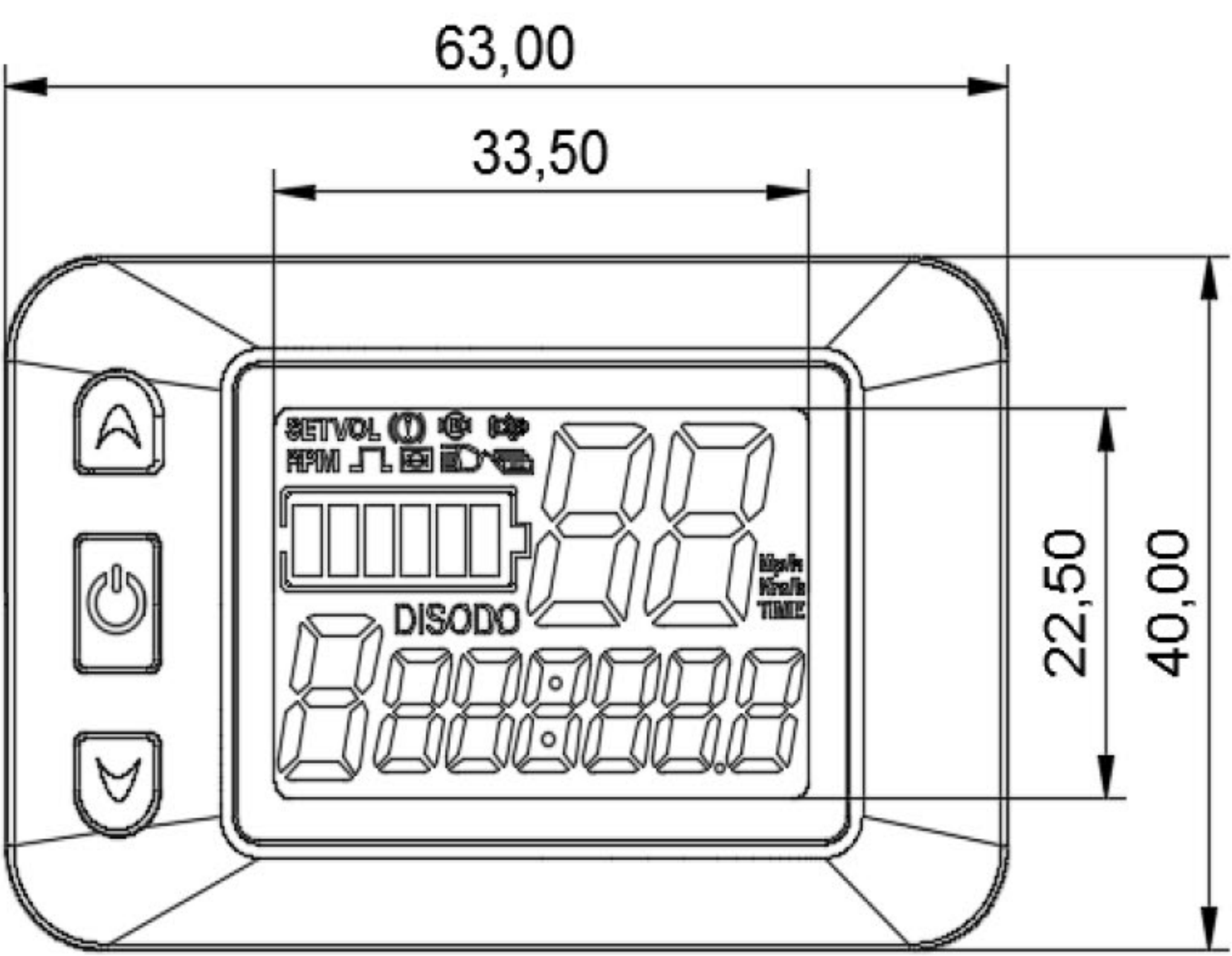
Make sure dashboard can display image whenever turn on the switch, check the power remaining and no error indicator shows on the dashboard

4.2 Pre-ride instruction

Before riding, always check the following, for your safety

- Start Gear always on Gear 1 (ECO mode), this product has 3 Gears, user can switch the gear through the button on dashboard. For your safety, DO NOT start ride motorcycle with HIGH GEAR and HIGH SPEED
- The kickstand must be lift up whenever motorcycle in use
- Always wear protective helmet whenever motorcycle in use
- Obey local traffic law and regulations which may affect the locations where the electric motorcycle may be used. You are obliged to be informed of and observe the laws of the place where you are located

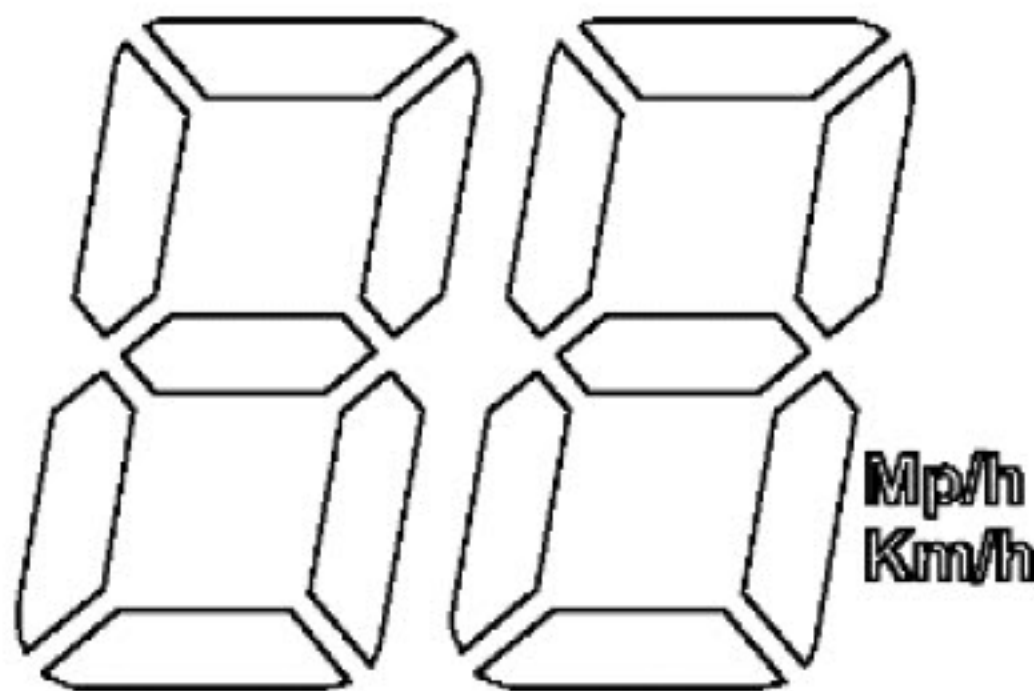
4.3 Display Overview



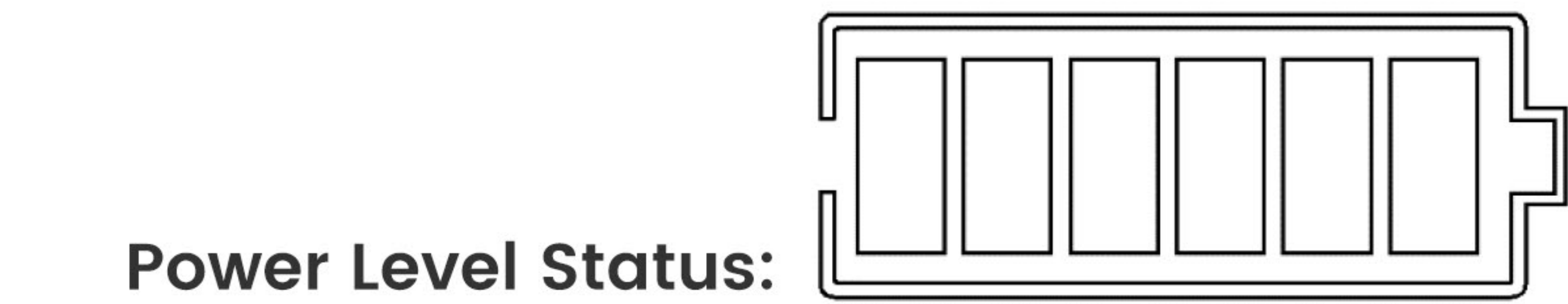
Display functions:

1. Speed

Speed Area:

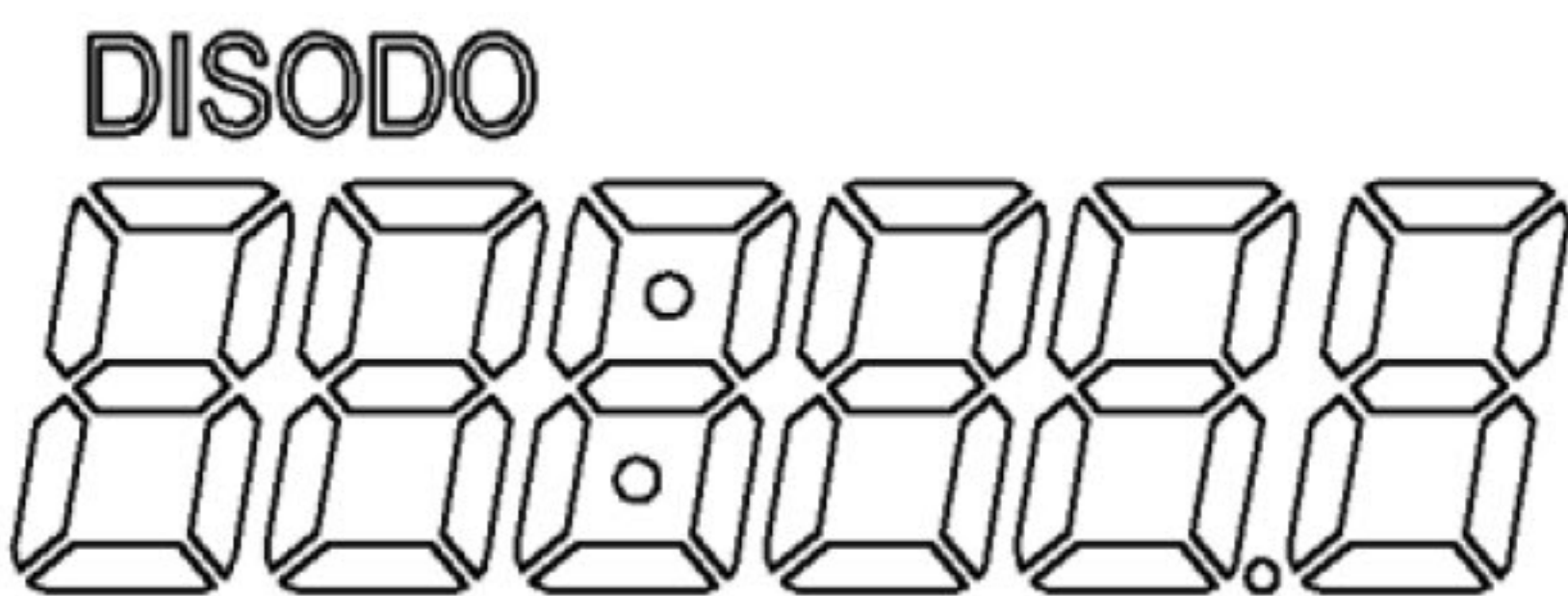


2. Battery Indicator



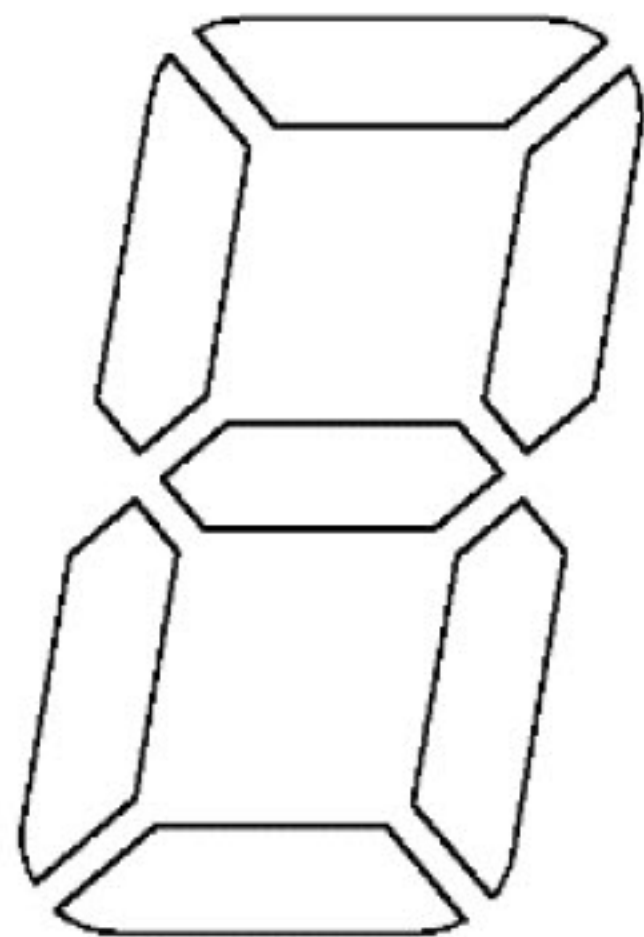
3. Total Mileage:

- Single Round Mileage DIS; Total Mileage ODO, (Unit: mile; km):

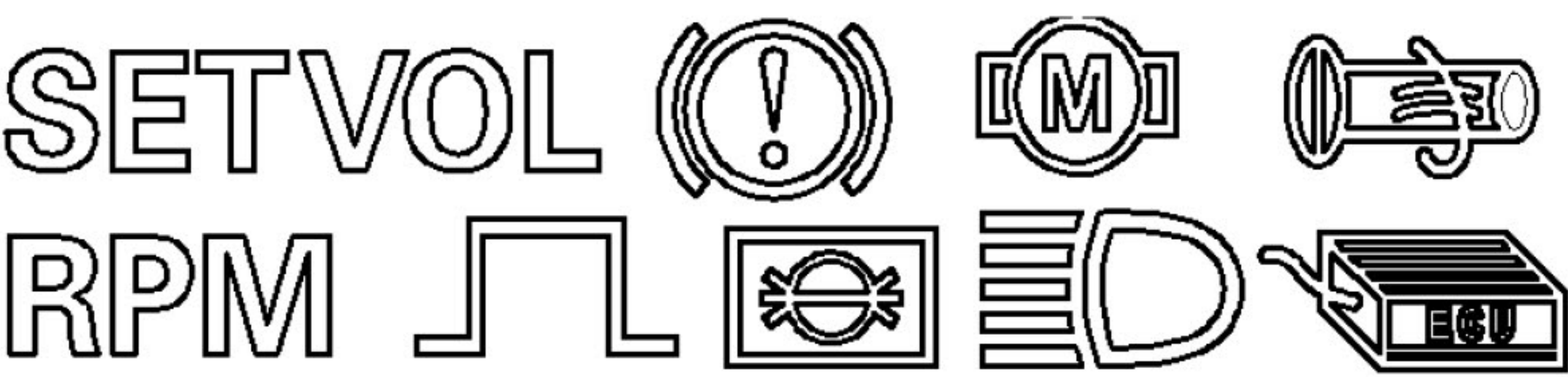


4. Gears:

Gear indicator:




5. Status Prompt:



SET Setting mode; VOL Current voltage;

 Braking prompt;  Motor fault;

 Throttle fault;  wheel diameter;

 Headlight;  Controller fault;

6. Up and down button can switch the Gear mode and other status mode

5.0 Maintenance

- Battery: Only use the supplied battery. If battery is discontinued to use immediately and replace with a GUNAI TM electric motorcycle supplied and recommended battery
- Battery Charger: Only use the supplied battery charger. If battery is discontinued to use immediately and replace with a GUNAI TM electric motorcycle supplied and recommended battery charger
- Wheels: Wheels and drive system components are subject to normal deterioration or wear. It is the responsibility of the user to systematically inspect wheels for excessive wear and to appropriately adjust and replace drive train components as necessary.
- Replacement Parts: Most of the common replacement parts are available for purchase with GUNAI distributors

6.0 Trouble Shooting

Problem	Possible Cause	Solution
Motorcycle will not start and run	1. Battery is not fully charged 2. Wire or cable are loose or unplugged	1. Fully charge the battery. First charge should be 12 hours and up to 8–9 hours for recharges 2. Check to all cable are tightly plugged into the controller
Motorcycle cannot run normally the time is short	1. Battery requires charging 2. Battery will not accept full charge 3. Rear tire is not properly inflated	1. Fully charge the battery. First charge should be 12 hours and up to 8–9 hours for recharges 2. Make sure power flow to the wall outlet is on. Battery may need to be replaced Even with proper care; rechargeable batteries do not last forever. The average rechargeable battery life is 1 to 2 years depending on motorbike conditions and use. 3. Check the tire is at the correct PSI, if it is not, inflate the tire before riding
Motorcycle cannot run normally the short trip distance	1. Battery requires charging 2. Battery will not accept full charge	1. Fully charge the battery. First charge should be 12 hours and up to 8–9 hours for recharges 2. Make sure power flow to the wall outlet is on. Battery may need to be replaced Even with proper care; rechargeable batteries do not last forever. The average rechargeable battery life is 1 to 2 years depending on motorbike conditions and use.

	<div>3. Rear tire is not properly inflated</div> <div>4. Continuous riding at a high speed.</div> <div>5. Frequent uphill riding or riding against wind, frequent brake, heavy load.</div>	<div>3. Check the tire is at the correct PSI, if it is not, inflate the tire before riding</div> <div>4. Ride at an intermediate speed.</div> <div>5. Avoid frequent braking, startup or heavy load.</div>
<div>Motorbike runs sluggishly</div>	<div>1. Brakes are not correctly adjusted</div> <div>2. Motorcycle is overloaded</div> <div>3. Frequent uphill riding or riding against wind, frequent brake, heavy load.</div> <div>4. Rear tire is not properly inflated</div>	<div>1. Adjust appropriate tension, the brakes can react in time</div> <div>2. Never load over 80KG when using motorcycle</div> <div>3. Avoid frequent braking, startup or heavy load.</div> <div>4. Check the tire is at the correct PSI, if it is not, inflate the tire before riding</div>
<div>Motorbike makes grinding or loud noises when motor is running.</div>	<div>1. Chain is dry</div> <div>2. Motorbike is overloaded</div>	<div>1. Apply a lubricant to the chain.</div>

Note :

1. Major parts of motorcycle such as battery unit, motors, charger, and controller, these parts have been labeled before delivery. Note that those major parts without labels are not covered by warranty.

7.0 Warranty

The following circumstances are not in the scope of free after-sale service:

1. Consumables and quick-wear parts are not covered by warranty: (tires and tubes, the whole set of braking system, plastic parts, brake cable, and cover, etc.);

- 2. Warranted parts that are beyond the warranty period;
- 3. Damages caused by users for not strictly complying with the instructions.
- 4. Damages or quality issues due to accidental impact, crash, and contact with corrosive substance;
- 5. Purchase invoice is inconsistent with the warranty card.
- 6. Parts damaged by unauthorized disassembly or modification, or cases where technical evaluation and analysis cannot be conducted since the initial fault conditions are destroyed due to such unauthorized disassembly or modification.
- 7. By no means should appearance issues be the basis for exchange or warranty once the motorcycle is sold. Please check the appearance and confirm surface quality carefully in the purchase.
- 8. Damages caused by modifications without the prior consent of our company or our authorized sales and service center.

Warranty periods for major parts of the portable electric motorcycle:

Part Name	Warranty Period	Exception	Note
Frame Structure	12 Month	Damage by strong deliberate impact	Replacement out of the warranty period will be charged at cost price
Li-ion Battery	12 Month	According to the degree of battery degradation, avoid charging at low temperature to keep the battery degradation too low. Please refer to the available capacity for long-term charging at the following temperature: 14°F is about 70% of available capacity, 32°F is about 80% of available capacity, 70°F is about 90-95% usable capacity Replacement warranty service will be provided if the voltage is abnormal, cannot be charged, and the capacity detected by the discharge meter is less than 70% of the available capacity	Replacement out of the warranty period will be charged at cost price

Controller	12 Month	Warranty will be provided if performance failure or quality issues occur due to product reasons and cannot be repaired.	Replacement out of the warranty period will be charged at cost price
Motor	12 Month	Coil burning, phase loss, demagnetization, short circuit, open circuit, abnormal noise, damage to the hub due to material damage, deformation, fracture, etc.	Replacement out of the warranty period will be charged at cost price
Dashboard (Display)	6 Month	Warranty will be provided if performance failure or quality issues occur due to product reasons and cannot be repaired.	Replacement out of the warranty period will be charged at cost price
Brake handle, disc brake, Throttle, brake, plastic part, tire, LED lights, mud fender, chain, tire, inner tube, screw, bearing, shock absorber, and other quick-wear parts.		Quick-wear parts are not covered by warranty	Replacement of parts that are not covered by warranty will be charged at cost price

The manufacturer warranties this product to be free of manufacturing defects for a period of 90 days from the date of purchase. This Limited Warranty does not cover normal wear and tear, tires, cables, or any damage, failure or loss caused by improper assembly, maintenance, storage or use of GUNAI GN21

The manufacturer is not liable for incidental or consequential loss or damage due directly or indirectly to the use of this product. GUNAI does not offer an extended warranty

This Limited Warranty will be void if the product is ever

- used in a manner other than for entertainment or transportation
- modified in any way
- used or rental