

# CROSSFIRE ECR3000



**READ THIS MANUAL CAREFULLY!  
IT CONTAINS IMPORTANT SAFETY INFORMATION**

## OWNER'S MANUAL



### **WARNING**

**THIS VEHICLE IS TO BE OPERATED BY USER OLDER  
THAN 16 YEARS OF AGE.  
NOT FOR CHILDREN.**

\* PLEASE READ THE MANUAL BEFORE OPERATION \*  
\* FOLLOW OUR WARNINGS \*

READ AND UNDERSTAND THIS ENTIRE MANUAL BEFORE USING!  
NOTE: MANUAL ILLUSTRATIONS ARE FOR DEMONSTRATION PURPOSES ONLY.  
ILLUSTRATIONS MAY NOT REFLECT EXACT APPEARANCE OF ACTUAL PRODUCT.  
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

## **INTRODUCTION**

Thank you for purchasing this product. This manual outlines the proper care and maintenance requirements for your vehicle. Following these instructions will ensure a long, trouble-free operating life of this vehicle and your satisfaction with it.

The owner's manual corresponds to the latest state of this vehicle at the time of printing. Slight deviations resulting from ongoing development and design, however, cannot be completely excluded. All specifications are non-binding. We reserve the right to modify or delete technical specifications, parts, designs, and other details without prior notice.

## **SAFETY WARNINGS**

This vehicle is NOT A TOY and is intended for use only in closed-off areas away from public road traffic.

This Vehicle is not suitable for novice riders and should be used by trained and experienced riders. Never permit children under age 16 to operate this vehicle. All children need to be assessed for their ability to ride safely. Adequate adult's supervision should be provided for all children allowed to ride.

### **WARNING:**

Riding this vehicle can be a dangerous activity. Certain conditions may cause the equipment to malfunction through no fault of the manufacturer. Like other vehicles, this mini dirt bike is designed to move, and it is therefore possible to lose control, fall off, and/or encounter dangerous situations that no amount of care, instruction, or expertise can completely avoid. If such incidents occur, you can be seriously injured or killed, even when using safety equipment and taking other precautions. **RIDE AT YOUR OWN RISK AND ALWAYS USE COMMON SENSE.**

This manual contains many warnings and cautions about the consequences of failing to maintain, inspect, or properly use your dirt bike. Because any incident can result in serious injury or even death, we do not repeat this warning each time such a possibility is mentioned.

## **APPROPRIATE RIDER USE AND PARENTAL SUPERVISION**

This manual contains important safety information and use tips to help you and your child operate and handle the mini dirt bike. Carefully read the manual in its entirety together with your child before letting your child ride it for the first time. The manual also contains important information on servicing the vehicle.

It is your responsibility to review the manual and make sure that all riders understand all warnings, cautions, instructions, and safety topics, and ensure that the riders can safely and responsibly use this product and protect your child from injury. We recommend that you periodically review and reinforce the information in this manual with your child, and that you inspect and maintain your children's vehicle to ensure their safety. **The recommended rider age of 16 years** is only an estimate and can be affected by the rider's size, weight, or skills. Any rider unable to fit comfortably on this vehicle should not attempt to ride it.

**It is essential to conduct technical training for your child before their first use. To get the train information, please get in touch with the dealer from whom you purchased the vehicle. Before your child completes the training, do not let your child use this vehicle.**

Children often underestimate or fail to recognize the dangerous situation. You should make it clear to your child that they should not, under any circumstances, operate the vehicle without supervision and that your child may only drive at speeds that are commensurate with the child's riding ability and other road conditions.

**A parent's decision to allow his or her child to ride this vehicle should be based on the child's maturity, skill, and ability to follow rules.**

Keep this product away from children younger than age 16, and remember that this product is intended

for use only by persons who are, at a minimum, completely comfortable and competent while operating the vehicle.

Do not exceed 90KG (**198lbs**) total weight on this vehicle. Rider weight does not necessarily mean a person's size is appropriate to fit or maintain control of this vehicle.

Do not touch the brake calipers and motor on your bike when in use, as they can become very hot.

## **ACCEPTABLE RIDING PRACTICES AND CONDITIONS**

**Always check and obey any local laws or regulations that may affect the locations where the vehicle may be used.**

Ride defensively. Watch out for potential objects that could catch your heel or force you to swerve suddenly or lose control. Be careful to avoid pedestrians, skaters, skateboards, scooters, bikes, children, or animals who may enter your path, and respect the rights and property of others.

This vehicle is meant to be used only in controlled environments free of potential traffic hazards and not on public streets or sidewalks. Do not ride your vehicle in any areas where pedestrians or product traffic is present.

Do not activate the speed control on the hand grip unless you are on the vehicle and in a safe, outdoor environment suitable for riding.

The vehicle was manufactured for performance and durability, but is not impervious to damage. Jumping or other aggressive riding can over-stress and damage any product, including this vehicle, and the rider assumes all risks associated with high-stress activity. Be careful and know your limitations. The risk of injury increases as the degree of riding difficulty increases. The rider assumes all risk associated with aggressive riding activities.

Maintain a hold on the handlebars at all times.

Never carry passengers or allow more than one person at a time to ride the vehicle.

Never use near steps or swimming pools.

Keep your fingers and other body parts away from the drive chain, steering system, and wheels, and all other moving components.

Never use headphones or a cell phone when riding.

Never hitch a ride with another vehicle.

Do not ride the vehicle in wet or icy weather, and never immerse the vehicle in water, as the electrical and drive components could be damaged by water or create other possibly unsafe conditions.

The vehicle is intended for use on flat, level ground without loose debris such as rocks or gravel. Wet, slick, bumpy, uneven, or rough surfaces may impair traction and contribute to possible accidents. Do not ride the vehicle in mud, ice, puddles, or water. Avoid excessive speed that can be associated with downhill rides. Never risk damaging surfaces, such as carpets or flooring, by using the vehicle indoors.

Do not ride at night or when visibility is limited.

### PROPER RIDING ATTIRE

Always wear proper protective equipment such as an approved safety helmet, elbow pads, and knee pads. A helmet may be legally required by local law or regulation in your area. A long-sleeved shirt, long pants, and gloves are recommended. Always wear athletic shoes, never drive barefoot or in sandals, and keep shoelaces tied and out of the way of the wheels, motor, and drive system.

### USING THE CHARGER

The charger supplier with the vehicle should be regularly examined for damage to the cord, plug, enclosure, and other parts, and in the event of such damage, the bike must not be charged until the charger has been repaired or replaced.

Use only with the recommended charger.

Use caution when charging.

The charger is not a toy. The charger must be operated by an adult.

Do not operate the charger near flammable materials.

Unplug the charger and disconnect from the bike when not in use.

Always disconnect from the charger before wiping down and cleaning the vehicle with liquid.

**FAILURE TO USE COMMON SENSE AND HEED THE ABOVE WARNINGS INCREASES THE RISK OF SERIOUS INJURY. USE WITH APPROPRIATE CAUTION AND SERIOUS ATTENTION TO SAFE OPERATION.**

### LOCATION OF WARNING STICKER



Sticker A

**⚠ WARNING**

Improper use of Vehicles can cause SEVERE INJURY OR DEATH



ALWAYS USE APPROVED HELMET AND PROTECTIVE GEAR



NEVER USE ON PUBLIC ROADS



NEVER CARRY PASSENGERS



NEVER USE WITH DRUGS OR ALCOHOL

**NEVER** operate:  
 without proper training or instruction.  
 at speeds too fast for your skills or the conditions.  
 on public roads - a collision can occur with another vehicle.  
 with a passenger - passengers affect balance and steering and increase risk of losing control.

Always:  
 use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.  
 avoid paved surfaces - pavement may seriously affect handling and control

LOCATE AND READ OWNER'S MANUAL.  
 FOLLOW ALL INSTRUCTIONS AND WARNINGS.

Sticker B

**⚠ WARNING**





**NEVER** operate this vehicle if you are under age 16  
 Adult supervision and instruction is required to operate this vehicle

Operating this ATV if you are under the age of 16 increases your chance of severe injury or death

Sticker C

**⚠ WARNING**

Improper tire pressure or overloading can cause loss of control.  
 Loss of control can result in severe injury or death.

Cold tire pressure  

Front: 32 P.s.i operation pressure / Max load 300lbs  
 Rear: 32 P.s.i operation pressure / Max load 485lbs  
 Max. Loading capacity: 90kg

Sticker D



**⚠ CAUTION**

**Motor & Brake disc  
Hot surface.  
Do not touch.**



**WARNING**



**Moving parts can cause injury.  
Keep hands and objects clear during operation.**

Sticker E

**⊘ WARNING ⊘**

**NOTE THE FOLLOWING**

---

1. Adult supervision is required while charging.
2. There should be no flammable or explosive materials within 3 meters of the vehicle.
3. Please charge the vehicle after each use and then unplug once fully charged.
4. Charge every 1-3 months when not in use.
5. Only charge the vehicle with included charger.
6. Do not charge if the vehicle or charger gets wet.

Sticker F



## TECHNICAL SPECIFICATION SHEET

Motor type	3000W72V neodymium magnet DC BRUSHLESS motor
Peak power	8000W
Peak torque	10.3N.m
Battery	72V35AH ternary lithium battery
Charger input	84 V-6.0A
Charger output	84 V-6.0A
Non-load input current	≤115mA
Maximum motor current controller output	100A±1.5A
Transmission	Chain drive
Front suspension	Hydraulic inverted fork
Rear suspension	Mono shock
Tyre	Front 70/100-17" Max load 300lbs / rear 90/100-14", max load 485lbs,32 P.s.i operation pressure
Tyre optional	Front 70/100-19" Max load 320lbs / rear 90/100-16", max load 485lbs,32 P.s.i operation pressure
Brake system	Front and rear hydraulic disc brake
Rated loading capacity	90kg (198 lbs)
Speed 1	45kmph (28mph) (rider weight and terrain dependent)
Speed 2	65kmph (40mph) (rider weight and terrain dependent)
Speed 3	80kmph (50mph) (rider weight and terrain dependent)
Dry Weight (19/16 wheels)	73kg (161 lbs)
Dry Weight (17/14 wheels)	71kg (157 lbs)
Dimension (19/16 wheels)	1850x800x1130 mm (72.5 x 31.5 x 44.5 inches )
Dimension (17/14 wheels)	1800x800x1080 mm (71 x 31.5 x 42.5 inches )
Seat height (19/16 wheels)	845mm (33.3 inches)
Seat height (17/14 wheels)	800mm (31.5 inches)

Min. Ground Clearance (19/16 wheels)	335mm (13.2 inches)
Min. Ground Clearance (17/14 wheels)	290mm (11.4 inches)
Wheelbase	1240mm (48.8 inches)
Package carton size	1560x380x850mm

## PIN LOCATION:



PIN is stamped on an aluminum plate that is riveted to the steering column.  
**PIN means the Product Identification Number, which is unique for each unit.**

## BEFORE YOU BEGIN

Remove the contents from the box. Remove the foam separators that protect the components from damage during shipping. Inspect the contents of the box for scratches in the paint, dents, or kinked cables that may occur during shipping. Since the product was 85 percent assembled and packed at the factory, there should be no issues, even if the box has a few minor scratches or dents.

**MAKE SURE THE KEY SWITCH IS TURNED OFF BEFORE CONDUCTING ANY PROCEDURES.**

### **Estimated Assembly and Set-Up Time**

We recommend assembly by an adult with experience in motorbike or bicycle mechanics.  
Allow up to 30-40 minutes for assembly.  
Allow up to 8 hours for initial charge.

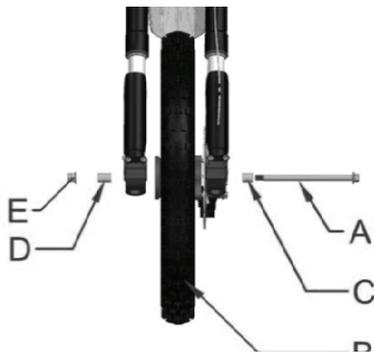
### **Required Tools**

Some tools may be supplied; however, we recommend using mechanics' grade tools. Use the supplied tools only as a last resort.

The list of tools required is as follows

- Open-end wrench M12-14, M13-15, M14-17, M17-19
- Hex Socket Screw with Thumb Head 5mm, 6mm

### Front wheel assembly:

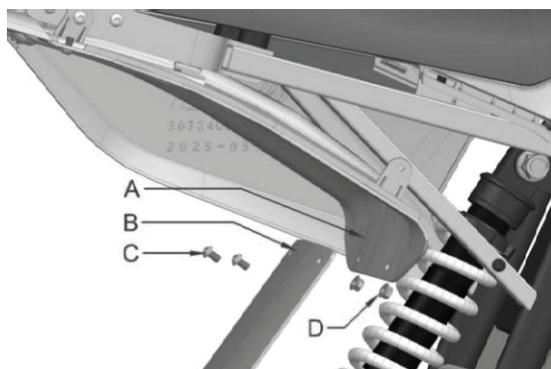


1. Pass the wheel axle (A) through the fork, press the axle sleeve (C) vertically onto the designated position of the axle.
2. Align the wheel hub central hole to the left sleeve (C), and insert the axle through the wheel (B).
3. Align the wheel hub central hole to the right sleeve (D), then pass the wheel axle through (D) and fork, screw the nut onto the wheel axle and tighten it with the open-end wrench.

Inspection: After the assembly is completed, check if the wheel is centered and spin the wheel to ensure it rotate smoothly without any jamming

- A: Wheel axle M15\*220\*1.5 x1
- B: Front Wheel x1
- C: Sleeve  $\phi 22 * \phi 15 * 29\text{mm}$  x1
- D: Sleeve  $\phi 22 * \phi 15 * 23\text{mm}$  x1
- E: Nut M14\*1.5

### Rear shock assembly:



1. Place the rear mudguard (B) at the predetermined installation position of the rear fender (A) to make sure the installation holes of both components is aligned.
2. Pass the screw (C) through the installation holes of both components, put the nut (D) on and tighten it

Inspection: Check whether the mudguards are firmly installed without any looseness and do not rub against the tires.

- A: Rear fender x1
- B: Rear mudguard x1
- C: Hex socket screw M6\*16 x2
- D: Nut M6 x2

## Front brake assembly:



1. Unscrew the bolt (D), place the brake caliper (A) in the appropriate position, and meanwhile align the caliper holder (C) with the installation holes of the fork.
2. Gently twist the bolt (D)--not fully tightened so that the brake caliper (A) can move slightly. Confirm the brake disc (B) has been tightened. Press the brake handle firmly, let the brake pads grip the disc to let the caliper automatically aligns to the position centered between the disc, use a tool to tighten the bolt (D).

Inspection: Manually rotate the wheel and check whether the brake disc rotates smoothly and listen if there is any friction sounds.

If there is any friction sounds, it indicates that the caliper still has a slight deviation. You need to loosen the bolts and repeat step 2 for fine-tuning.

After confirming everything is correct, repeatedly press and release the brake handle to check if the brake power is solid.

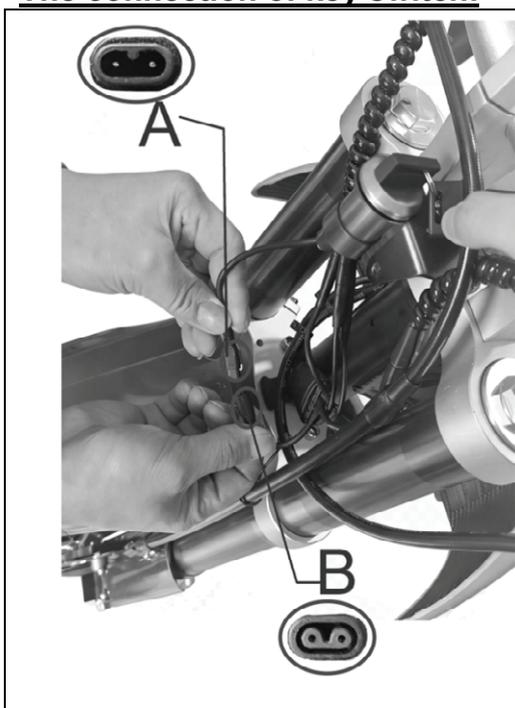
A: Brake caliper x1

B: Brake disc x1

C: Caliper holder x1

D: Bolt M6\*12 x2

## The connection of key switch:

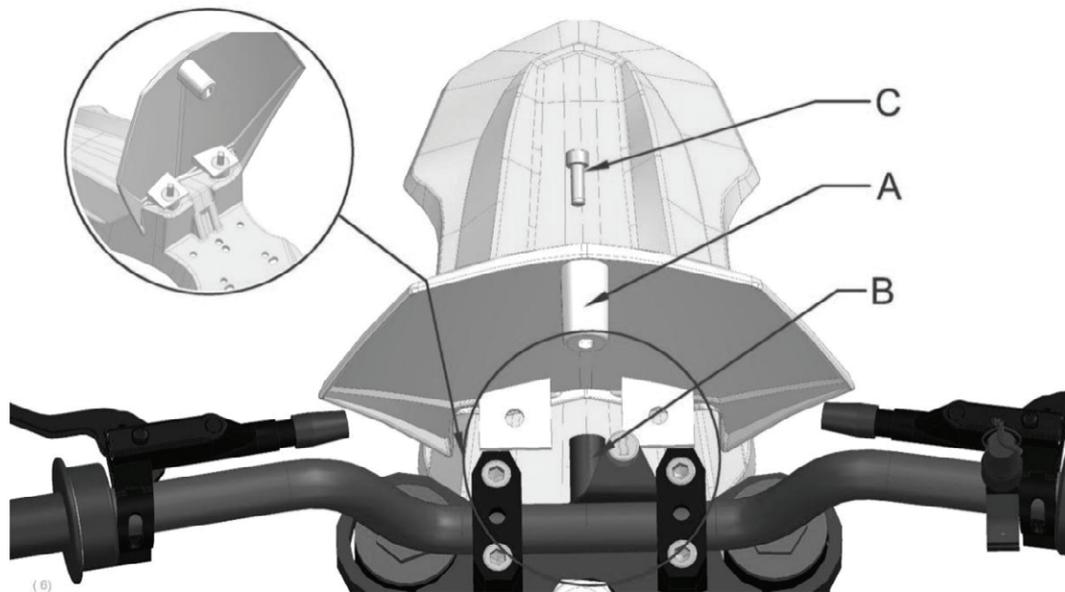


Before the assembly of number plate, Connect the wire end (A) leading to the key switch plug and the wire end (B) leading to the controller.

Note: DO NOT turn on the key switch until the connection is fully established.

Inspection: Restore battery power, insert the ignition key and switch in to ON position, and the LCD display lights up indicating that the vehicle is ready to drive.

### Number plate assembly:



1. Place the No. Plate (A) in the correct position to make sure the installation holes pass through vertically the 2 columns on the front mudguard(as shown in the circle in the picture).
2. Align the upper mounting hole of the No. Plate (A) with the installation hole of the key switch holding bracket (B). Insert the bolts through the No.plate hole and the threaded holes on the (B). Tighten it with a hex wrench.

A: Number plate x 1    B: Key switch holding bracket x1    C: Bolt M6\*12 x 1

### Front mudguard assembly:



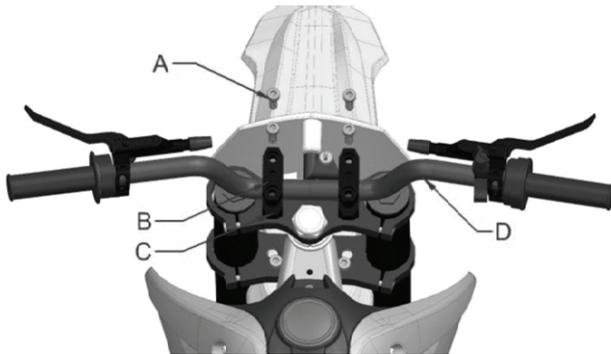
1. Align the mounting holes of the front mudguard (A) with the corresponding mounting holes at the bottom of the lower splintage.
2. Mounting on the 3 bolts and tighten them with a hex wrench.

Inspection: Check if the mudguard is exactly at the center of the front wheel and has no left or right offset.

A: Front mudguard x1  
B: Lower splintage x1  
C: Bolts x3

### Handlebar assembly:

**Caution:** Failure to properly adjust and tighten the bolts that affix the handlebar can cause you to lose control and crash.



1. Place the handlebar (D) in the arc-shaped groove of the handlebar holder (C) and adjust the angle and left-right symmetry of the handlebar.
2. Align the arc-shaped groove of the upper handlebar clamps (B) and place it over the handlebar. After ensuring that the interface between the upper clamps (B) and lower holder (C) are fully aligned, manually mounts on all the bolts (A) by passing the bolts through the clamps(B) and holders(C).
3. Use a hex wrench a tool to gradually tighten each bolt in a diagonal sequence.

Inspection: Try to rotate and shake the handlebars with both hands forcefully. The handlebars should be absolutely firm, without any displacement or loosening.

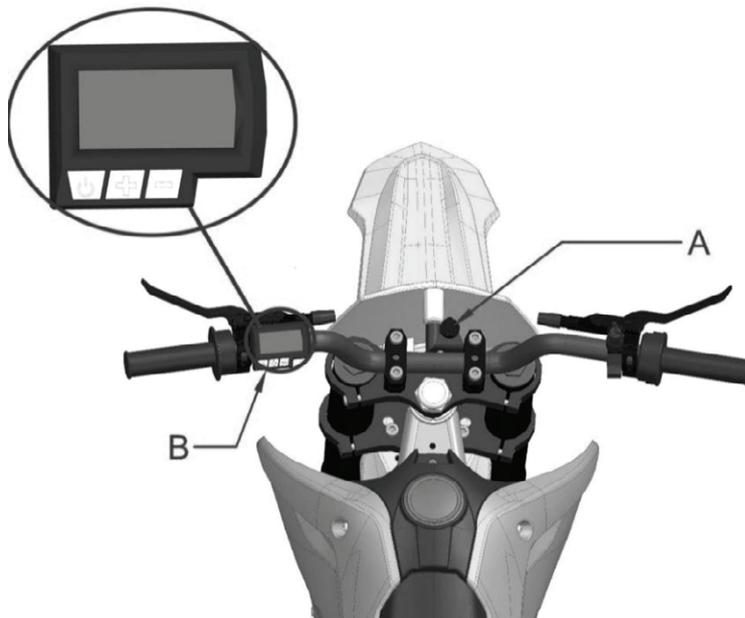
A: Bolt M8\*25 x4

B: Handlebar clamp x2

C: Handlebar holder x2

D: Handlebar x1

### Procedure to start the bike:

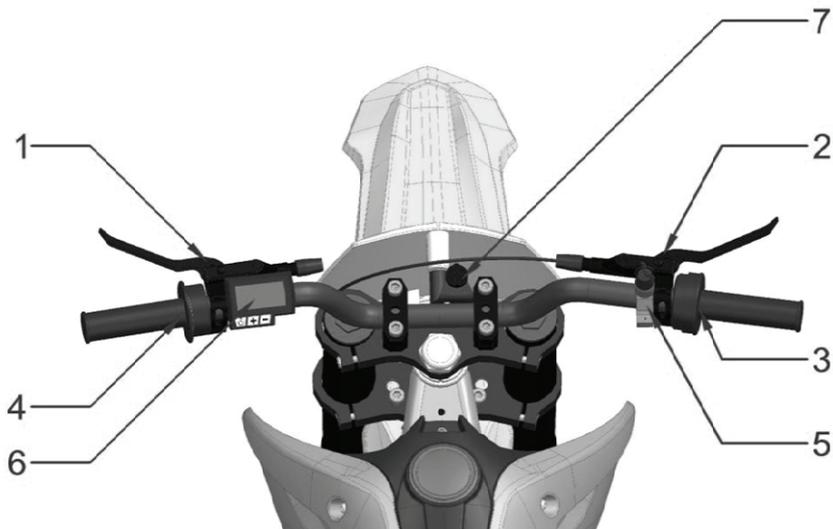


First, turn the key to open the lock of the key switch (A). Once the power connection is successful, first press the "+" or "-" button on the LCD display (B) to choose the speed mode (1/2/3), and then slowly twist the throttle; then the bike can be successfully started.

A: Ignition key switch

B: LCD display

**HAND DRIVE CONTROLS:**



1. Rear brake lever

2. Front brake lever

3. Throttle

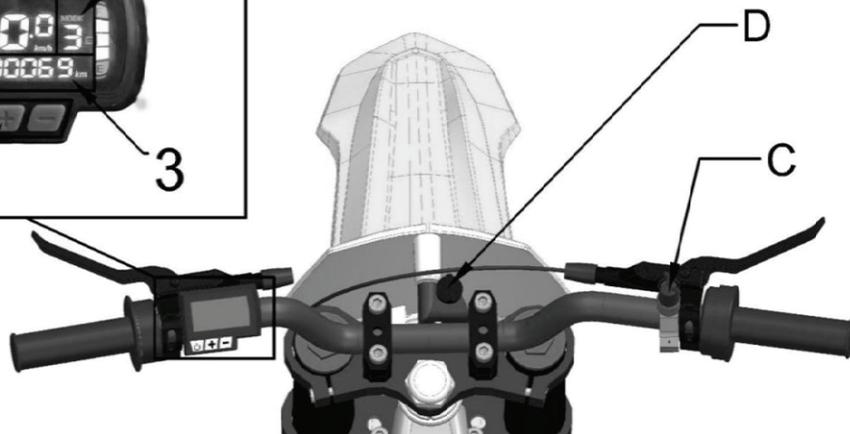
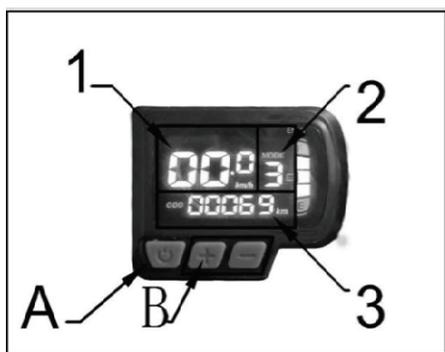
4. Left grip

5. Emergency kill switch

6. LCD display

7. Ignition key switch

**LCD display instruction:**



### **LCD display content:**

- 1: Speed data
- 2: Bike Mode (P/1/2/3/)
- 3: Riding data (Riding time/ Battery Voltage/ Single ride distance/ Total ride distance)

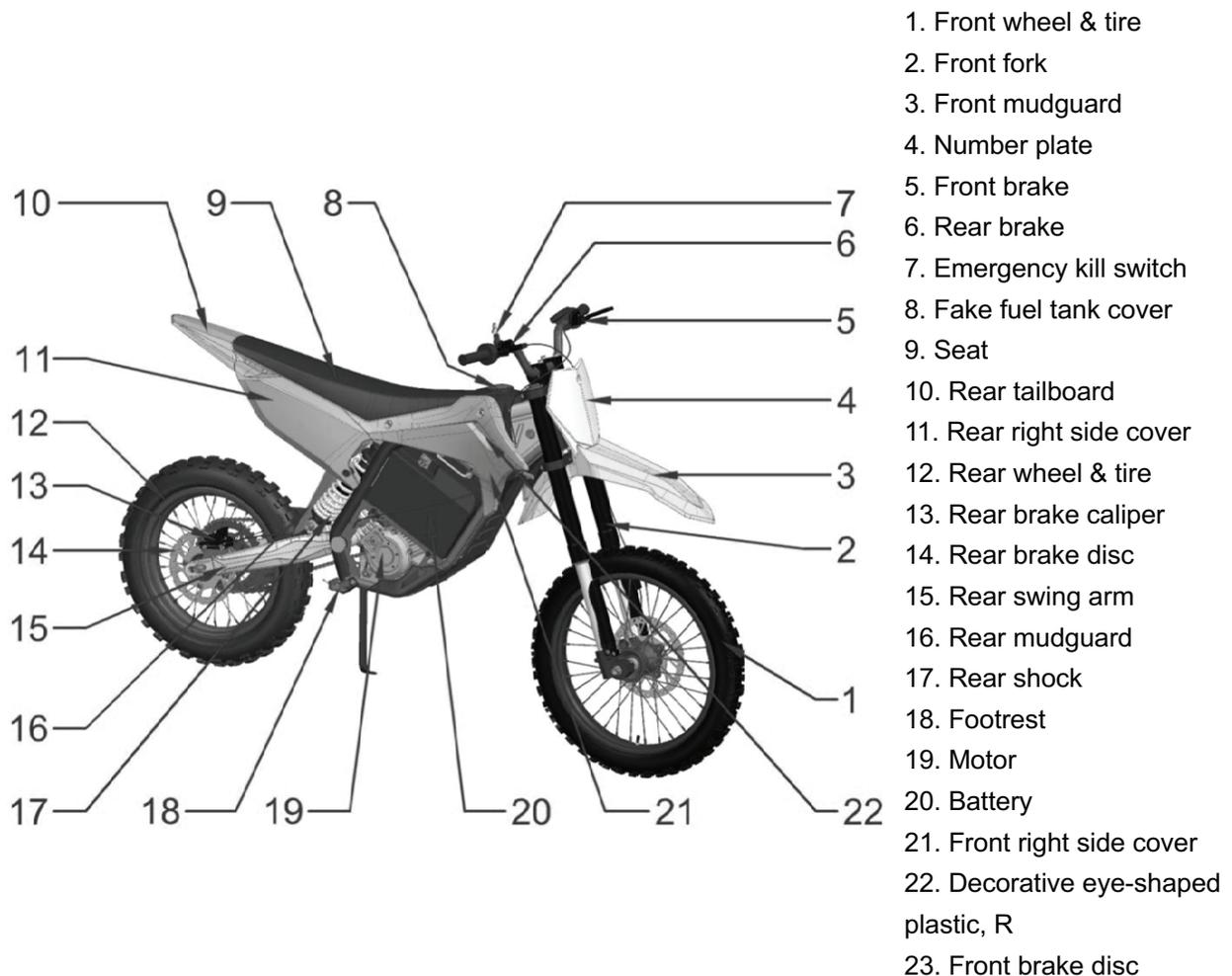
### **LCD display button instruction:**

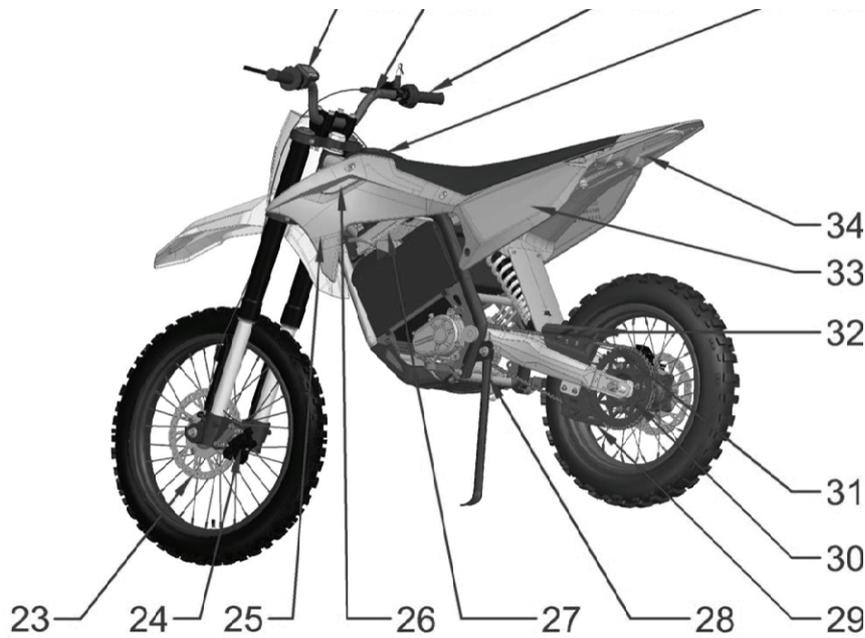
- A: Data view button
- B: Mode selector button (P/1/2/3)

### **Operation instruction:**

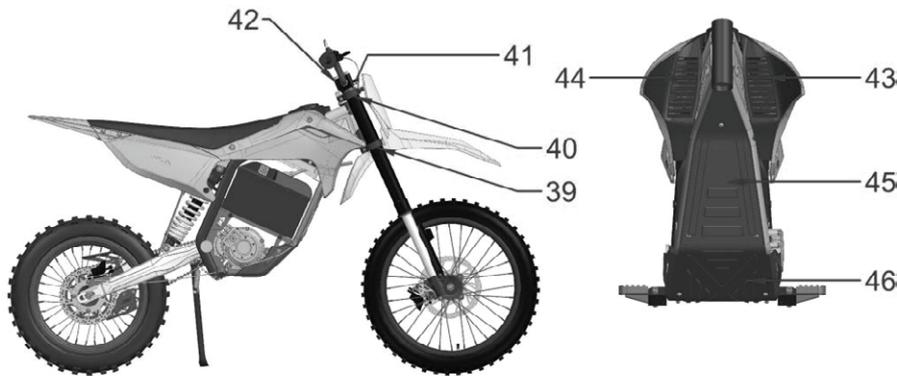
1. Rotate the ignition key switch (D) to power on the bike while the mode display (2) shows the bike mode **P** (parking).
2. By pressing the mode selector button (B) to unlock the parking status and choose the speed mode 1/2/3 (2), then the bike is ready to go.
3. By pressing the data view button, you can switch to view the riding data (3).
4. In an emergency, pull out the emergency kill switch (C), and the display will show P, which means the bike is back to the parking status. You can restart the bike by re-connection of kill switch and pressing the mode selector button to unlock the parking status and choose the speed mode 1/2/3.

### **MAIN PARTS:**





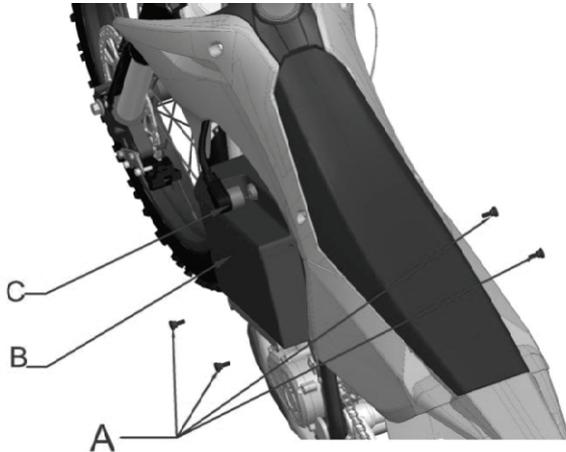
- 24. Front brake caliper
- 25. Front left side cover
- 26. Decorative eye-shaped plastic, L
- 27. Controller
- 28. Side stand
- 29. Lower chain cover
- 30. Sprocket
- 31. Chain
- 32. Upper chain cover
- 33. Rear side cover, L
- 34. Rear rack



- 39. Lower splintage
- 40. Upper splintage
- 41. Ignition key switch
- 42. Handlebar bracket
- 43. Air deflector, L
- 44. Air deflector, R
- 45. Frame front cover
- 46. Frame bottom cover

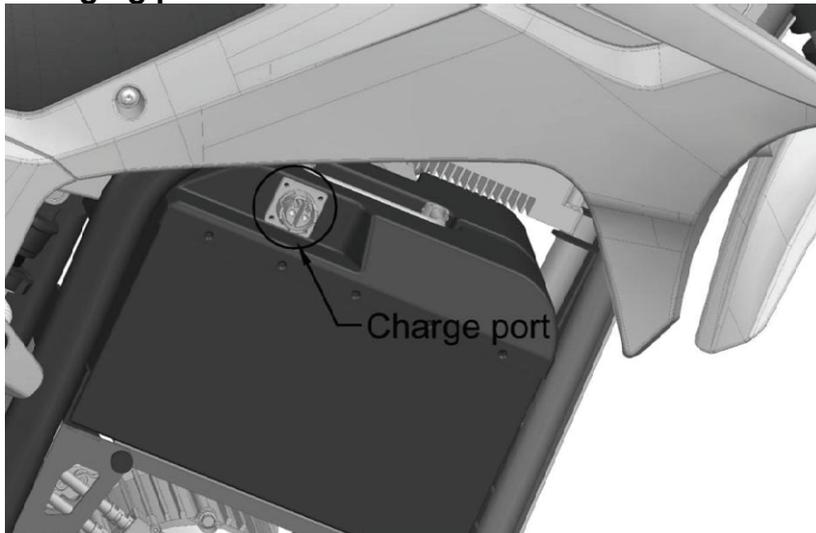
## Instructions regarding battery handling and charging

### Remove and assembly of battery case:



1. Rotate anticlockwise the lock ring (blue color) on the power supply socket (C) and pull out the plug..
2. Loosen the 4pcs screws (A) on both side of battery holder, then slowly and carefully move out the battery case (B) .
3. Install the battery case by the reverse procedure.

### Charging port location:



The charging port is on the right side of the battery case (as shown in the above picture)

### Charging the Battery

Your electric motorcycle may not have a fully charged battery; therefore, it is a good idea to charge the battery prior to use.

- Initial charge time: 3-4 hours, depending on the level of depletion
- Average battery life: 1500 charge/discharge cycles.
- Recharge time: *Always* remember to turn the power switch off and recharge for at least 6 hours after each use. When the vehicle is not in regular use, recharge the battery at least once a month until normal use is resumed. If you have left the power switch on or your product has not been charged for a long period of time, the battery may reach a stage at which it will no longer hold a charge.

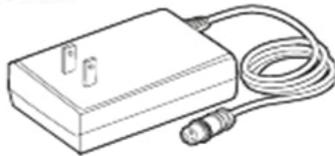
**NOTE:** Chargers have built-in overcharge protection to prevent the battery from being overcharged. The charger will get warm during use; this is normal for some charges and is no cause for concern. If your charger does not get warm during use, it does not mean that it is not working.

**WARNING:** Rechargeable batteries are only to be charged under adult supervision. Always disconnect your electric motorbike from the charger before cleaning with liquid.

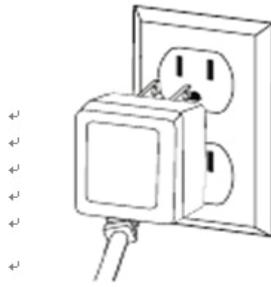
The charger has a small window with an LED to indicate the charge status. Red LED means the battery is charging, and Green LED means the battery is fully charged. Chargers have built-in over-charge protection to prevent the battery from being overcharged.

**Be sure to properly align the groove on the charger input port with the corresponding socket on the vehicle and tighten the threads; otherwise, no charging action will occur.**

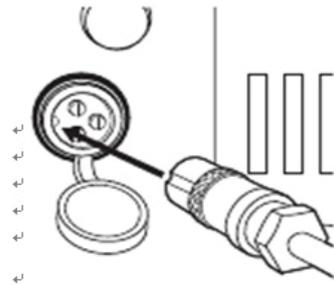
Charger



**Note:** Make sure power is turned OFF when unit is not in use. If the power switch is left on for an extended period of time, the battery may reach a stage at which it will no longer hold a charge.



1 Plug the charger into a wall outlet. If the lights on charger do not light up, check the power to the outlet. If necessary, try a different outlet.



2 Turn power **OFF** before charging. Plug the charger into the charger port to charge unit.

## **WARNING! Fire Risk!**

### **Charge battery with care!**

- Always disconnect the charger timely once charging is completed.
- Never charge a hot battery. Let cool down for 1 - 2 hours as required before recharging! Charging a hot battery will cause battery damage or fire!
- Never charge indoors! Never charge batteries unsupervised. Never charge in an internal hallway that is your emergency escape!
- Charge the battery outdoors, on non - flammable, weather protected surface! here must be no flammable materials within 3m during charging!
- Always re - charge a fully depleted battery within 12 hours after use!
- Strictly charge and use the battery between 5°C - 40°C air temperature!
- Only charge the battery with the original supplied charger. Never charge with any other chargers!
- Always disconnect the charger timely after the battery is fully charged!
- Adult charging only! Never charger unsupervised!
- Recharge after each use! Avoid storing a discharged battery for weeks!
- Always keep the charge-socket closed. Water or foreign objects will cause damage or fire!
- Long term storage: charge to 50%, then every 4 weeks for 15 minutes to avoid damage!
- Align charge plug and charge socket. Forcing the plug into the socket cause damage or fire!
- Read and adhere to all instructions in the user manual and on the battery!

### **Handle battery with care!**

- Adult charging only!

- Avoid direct sunlight! Keep away from heat sources and fire!
- Never expose the battery to water!
- Never expose the batteries to severe vibration or shock!
- Never stress or shock the battery casing.
- Never short circuit the connectors!
- Ensure connectors are in good condition, are dry and not soiled!
- Never attempt to open, modify or repair the battery!
- Always remove the battery before washing the bike!
- Clean battery casing with dry cloth as required!

### **Store and transport battery with care!**

- Never store the battery below 0°C or at a temperature higher than 40°C!
- Long term storage at 15 - 25°C: charge every 4 weeks for 15 minutes. This will avoid self discharge and damages!
- Never store the battery inside a vehicle (cars, etc.), especially when it is exposed to sunlight and reaches more 40°C!
- Never transport the battery together with metal objects, such as tools, hairpins, necklaces, or watches, etc.!
- Never transport the battery attached to your body, for example in backpacks!

### **Check battery regularly!**

Never ignore battery damages including but not limited to: not charging, not holding charge, odors, smoke, unusual heat, swelling/deformation, 'pop' noises, damaged casing, missing components, exiting liquids, connector corrosion or damaged sealing! If you detect any battery damages, stop using immediately! Relocate the battery into a safe location and away from flammable materials (if safe doing so) and contact your retailer immediately!

Never charge a damaged battery!

### **Battery disposal**



CONTAINS SEALED NON-SPILLABLE LITHIUM BATTERIES.  
BATTERIES MUST BE RECYCLED

**Disposal:** Your products use sealed lithium batteries, which must be recycled or disposed of in an environmentally sound manner. Do not dispose of a lithium battery in a fire. The battery may be burned or explode. Do not dispose of a lithium battery in your regular household trash. The incineration, land filling, or mixing of lithium batteries with household waste is prohibited by law in most areas. Return exhausted batteries to a federal or state-approved lithium battery recycle authority or a local seller of automotive batteries.

## INFLATING THE TIRES



**NOTE:** The tires are inflated when shipped, but they invariably lose some pressure between the point of manufacturing and your purchase. Always inflate the tires to the correct PSI before first time use.

**Please read the specification sheet to get the information on tire pressure.**

Using a bicycle-style tire pump to inflate the tire to the PSI indicated on the sidewall of the tire.

**Note:** The pressurized air supplies found at gasoline stations are designed to inflate high-volume automobile tires. If you decide to use such an air supply to inflate your tires, first make sure the pressure gauge is working, then use very short bursts to inflate to the correct PSI. If you inadvertently over-inflate the tire, release the excess pressure immediately.

### **WARNING!**

Improper tire pressure or overload can cause loss of control, crash or damage!

Cold Tire Pressures:

Front: min 12.0 - max 32.0 PSI

Rear: min 12.0 - max 40.0 PSI

Maximum Rider Weight: 90kg

### **Important information of use guider for the tire user guide**

**Note:** The Tire is the only contact between the vehicle to the road; the safety of various driving activities depends on the small area of the tire where contact with the road. Therefore, it is very important to keep the tires in good condition at all times and use the correct size and standard tire to replace the old ones.

#### **Guide:**

##### **Tire assembly and disassembly**

It is strongly recommended that the tire assembly and disassembly be done by an authorized technician with the necessary skills.

##### **Tire inflating pressure**

It is very important to keep the tire at the proper pressure and check the tire pressure before use. The inflation should be done while the tire is cold.

##### **Tire maintenance**

Tire tread depth should be checked regularly. (Shallower tread means less grip of the tire). You must stop using the vehicle if the tire is pierced, disassemble the tire, and check it carefully. Tire maintenance should be done by an authorized technician. The tire should be replaced immediately when it is distorted or damaged.

##### **Tire replacement**

It is important to use the correct size and standard tire as per our specification (see details in the technical specification sheet)

Don't use the used tire if you are not sure of its previous service condition.

### **Tire aging**

Tire aging is unavoidable, even if the tire is not ever used or just used only a few times. Tire aging is mainly reflected in the cracked section on the side of the tire and the tire tread; sometimes, the tire is distorted as well. The used and aged tire should be checked and confirmed if it is ok to use again by an authorized technician.

## **SAFETY REMINDERS**

### **PRE-RIDE CHECKLIST**

#### **Loose Parts**

Check and secure all fasteners before every ride. Make sure the steering stem clamp bolts and handlebar bolts are locked properly in place. There should not be any unusual rattles or sounds from loose parts or broken components. If you are not sure, ask an experienced mechanic to check.

#### **Brake**

Check the brake for proper function. When you squeeze the lever, the brake should provide positive braking action.

#### **Frame, Fork, and Handlebars**

Check for cracks or broken connections. Although broken frames are rare, an aggressive driver can bash into a curb or wall and wreck and bend, or break a frame. Get in the habit of inspecting yours regularly.

#### **Tire Inflation**

Periodically inspect the tires for excess wear, and regularly check the tire pressure and re-inflate as necessary. If you get a flat tire, the inner tube can be patched, or a new tube can be purchased from an authorized repair shop.

#### **Safety Gear**

Always wear proper protective equipment such as an approved safety helmet, elbow pads, and knee pads. Always wear shoes (lace-up shoes with rubber soles), never drive barefoot or in sandals, and keep shoelaces tied and out of the way of the wheels, motor, and drive system.

### **ATTENTION**

We recommend checking all tightened parts after the first time use. Special attention should be paid to the following parts:

- Footrest
- Handlebar
- Engine sprockets (Racing version only)
- Fork and rear shock
- Engine bolts and nuts
- Rear sprocket
- Wheel

### **REPAIR AND MAINTENANCE:**

#### **Chain maintenance and adjustment:**

1. Always keep the chain lubricated to reduce chain wear and ensure a longer chain life.
2. Check the drive chain periodically and follow the next steps to adjust the chain to make it work properly.

Step 1. Place the vehicle steadily on the ground. Cover the ground with newspapers or oil-absorbing

mats to prevent dirt from getting on it.

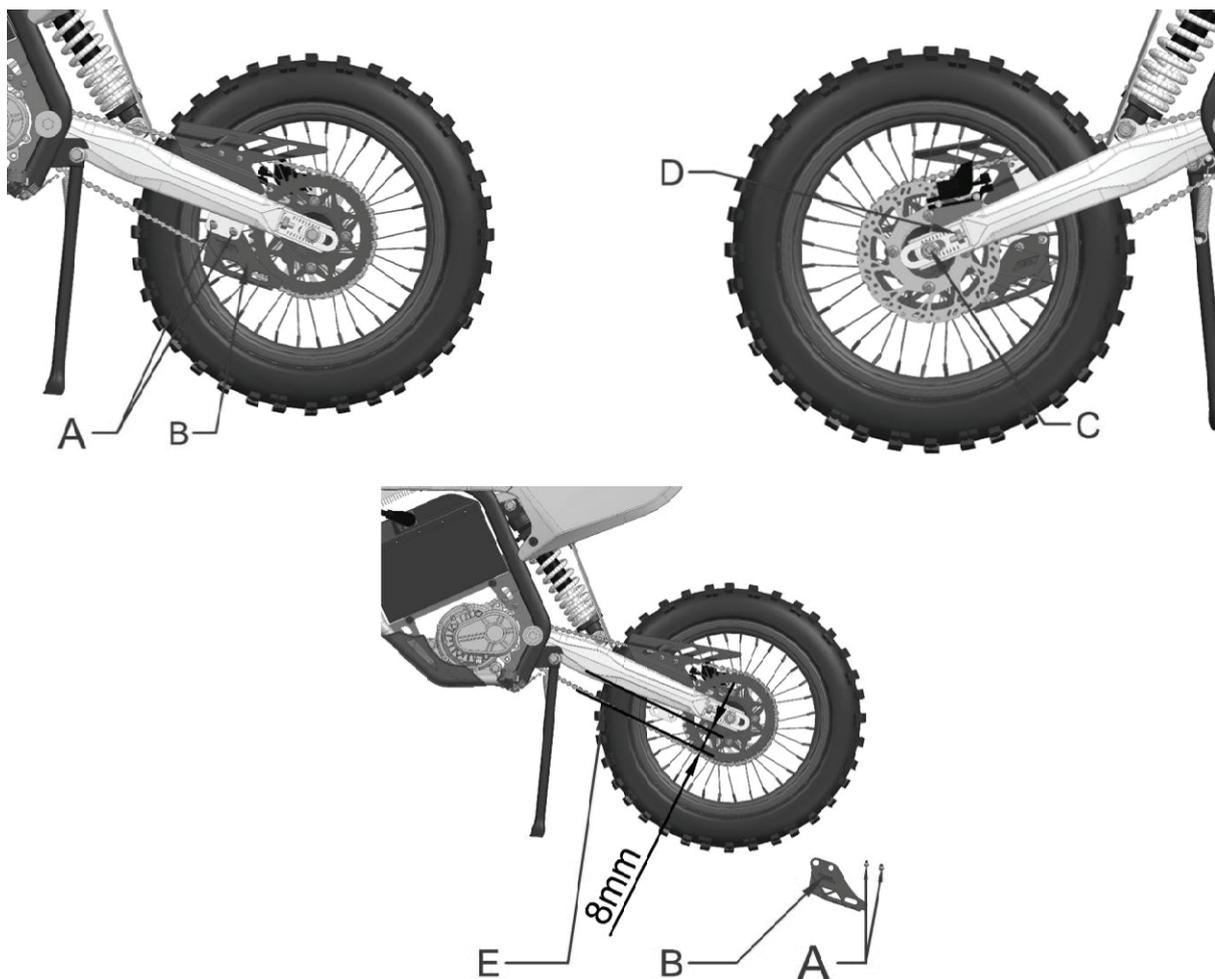
Step 2. Use a cleaning agent or a scrub brush to clean the gaps in the chain. After cleaning, dry it with a dry towel to prevent the chain from rusting.

Step 3. Align the oil nozzle of the chain oil with the rollers of the chain, and slowly turn the crank in the reverse direction. At each connection point of the rollers, drip a small amount of oil. Usually, one drop per link is enough, no more. Continue turning the crank for a full circle to ensure that the entire chain is lubricated.

Step 4. Wait for a few minutes for the oil to penetrate into the rollers. Wrap the chain with a clean, dry towel, turn the crank, and vigorously wipe off all the excess oil stains on the outside of the chain.

**Check:** The exterior of the chain should be relatively dry. Excess oil will only attract dust and gravel, forming a grinding paste that accelerates the wear of the chain and the gear.

**Maintenance frequency:** Clean and oil the chain after each ride on rainy days or in muddy conditions. In normal dry conditions, perform maintenance every 100-200 kilometers of riding or when you feel dryness in the transmission system.



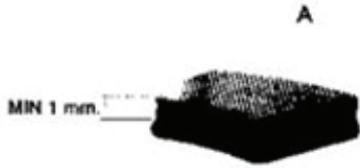
**Step 1:** Loosen the screw (A) with the 4mm hex wrench and remove the lower chain cover (B).

**Step 2:** Loosen the wheel axle (C) with a 14mm and 17mm open-end wrench, adjust the chain guider (D) to make the chain tension at the proper status (8mm up-down clearance)

**Step 3:** Make sure the wheel is aligned, then fasten the wheel axle (C) and reinstall the lower chain cover (B)

### **Brake pads check and replacement:**

To check the wear of front and rear brake pads **A**, simply inspect the brake calipers as shown in the picture below.



The Thickness of the lining on the ends of the four pads should never be less than 1mm.

Should the lining be thinner, immediately replace the brake pads.

**We recommend having the brake pads replaced by an authorized dealer.**

### **Warning:**

The brake is capable of causing the electric bike to skid the tire throwing an unsuspecting rider. Practice in an open area free from obstacles until you are familiar with the brake function. Avoid skidding to stop, as this can cause you to lose control or damage the rear tire.

### **Testing the Brakes**

To use the brake, squeeze the lever to increase the pressure on the brake. The brake lever is fitted with a cable adjuster to compensate for cable stretch and/or to fine-tune the lever movement to brake engagement. If the brake is not engaging properly, follow the instructions for adjusting the brakes.

### **Chain and sprocket**

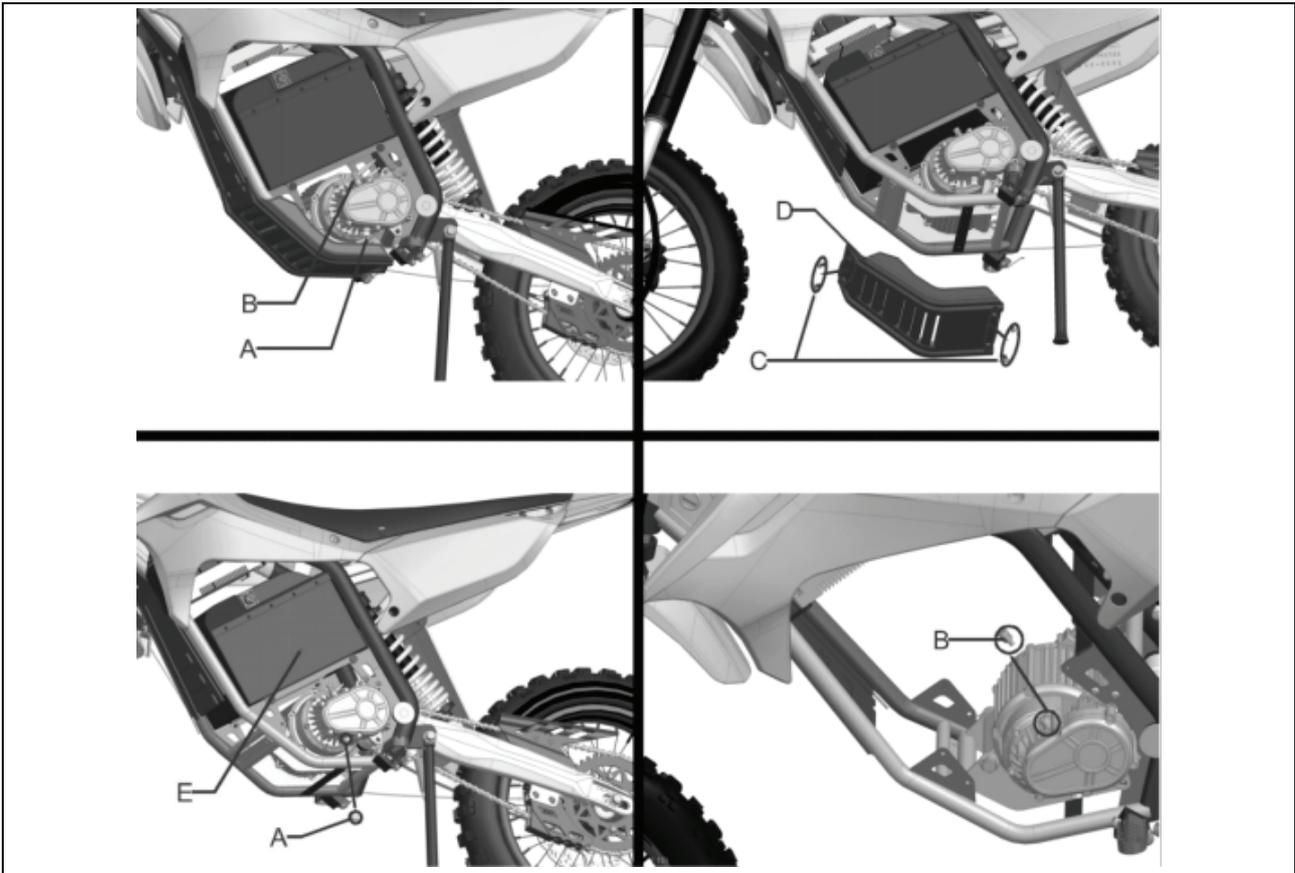
The chain will typically have a “loose spot” and a “tight spot” corresponding with a particular sprocket rotational position. This is normal and common to all chain-driven products due to the run-out tolerance of the free wheel and sprocket. The chain should be adjusted to the ideal tension with the chain in the tightest spot.

Proper chain alignment must be maintained. The wheel must not be skewed. If the chain is noisy or rough-running, check the lubrication, tension, and alignment of sprockets, in that order.

### **Warning:**

**To avoid a pinch or injury, keep fingers away from moving sprockets and the chain.**

## Motor gear box maintenance:



Required tools: Oil collection container, Wrench (torque wrench), Hexagonal socket wrench, Oil injector (Syringe type injector or squeeze bottle).

Protective tools: Gloves, Goggles

Auxiliary tool: Towel

50ML machine oil (model: L-CKC100)

1. Park the vehicle on a flat surface and set up the side stand to ensure the stability of vehicle.
2. Use an hex socket wrench to unscrew the bolts (C) onto the frame bottom cover (D), and then remove the frame bottom cover (D).
3. Place the oil collection container directly beneath the oil drain screw (A), use a wrench to loosen(A), before (A) is completely loosened ,hold (A) with your hand and then quickly remove it to allow the oil flowing into the collection container,make sure the used oil is completely drain out.
4. Tighten the oil drain screw, remove the battery (E) --- (NOTE:following the above-mentioned steps for battery removal above).
5. Unscrew the oil injection screw (B), use an oil injector to slowly inject the new gear oil. When the oil just starts to overflow from the injection hole, it indicates that the oil has been added to the standard position. Then quickly tighten the oil injection screw (B).
6. Inspection: Let the vehicle idle or drive at a low speed for a certain distance, check for any leaks at the oil drain screw (A) and the oil injection screw (B). After confirming there are no leaks, you can use it normally.

Gear box maintenance period: The first maintenance is after 1000 km, and thereafter it is every 2000

km. The amount of oil added each time is approximately 50 ml.

Note:

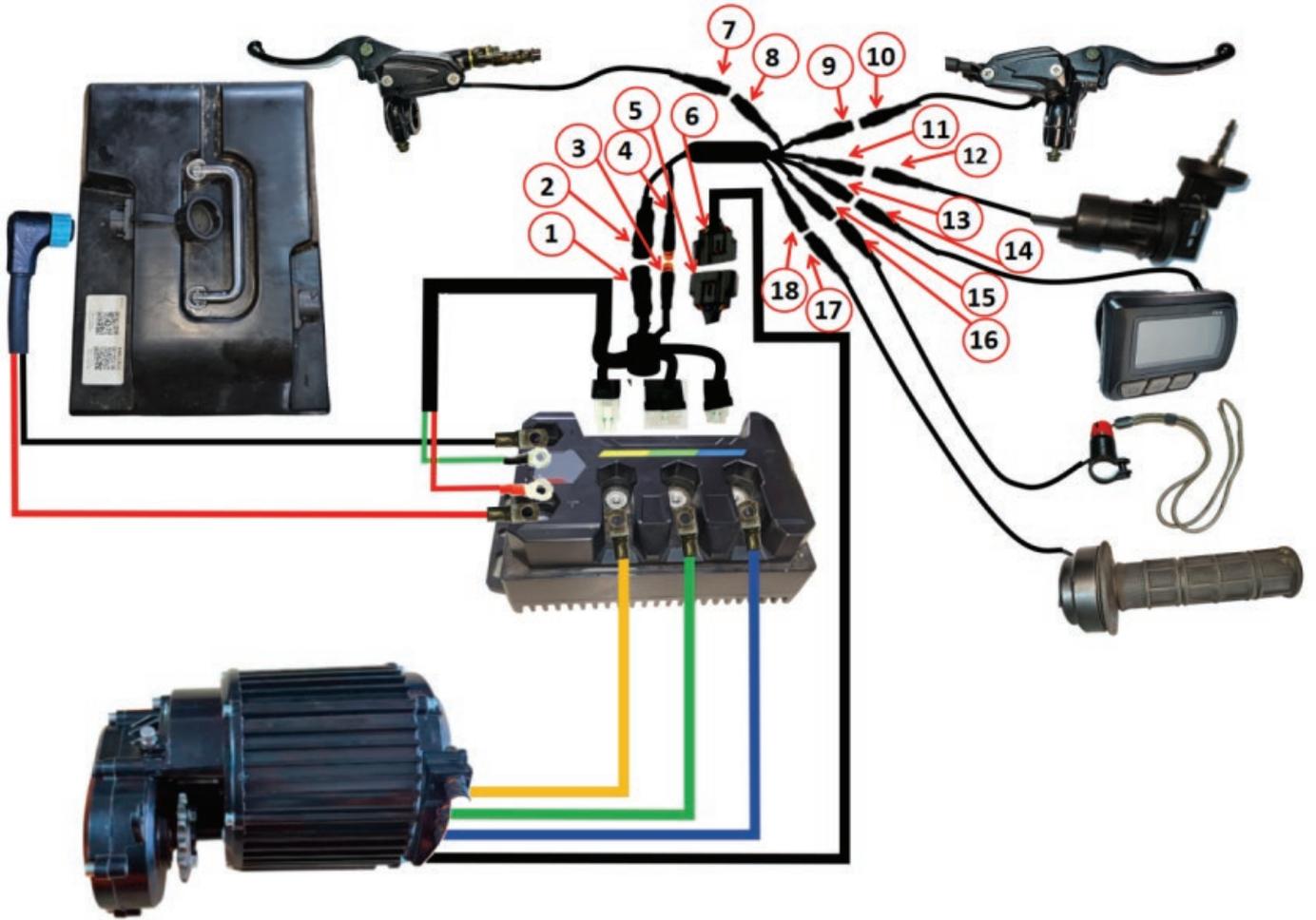
1. Only the specified oil should be used. The gear box would be damaged if the wrong type of oil is used.
3. Collect the used oil and send it to the authorized waste oil recycling center.

## **TROUBLESHOOTING GUIDE**

<b>Problem</b>	<b>Possible cause</b>	<b>Solution</b>
The vehicle does not run.	Undercharged battery.	Charge the battery. A new battery should have been charged for at least 12 hours before using the vehicle for the first time and up to 8 hours after each subsequent use.
		Check all connectors. Make sure the charger connector is tightly plugged into the charging port and that the charger is plugged into the wall.
		Make sure the power flow to the wall outlet is on.
	The charger is not working.	You may check to see if your charger is working by using a volt meter or asking the authorized service center to test your charger for you.
The vehicle was running, but suddenly stopped.	Loose wires or connectors.	Check all wires and connectors to make sure they are tight.
	Burned-out fuse.	The fuse will burn out and automatically shut off the power if the motor is overloaded.
		An excessive overload could cause the motor to overheat. Refer to replacing the fuse instructions of this manual. Correct the conditions that caused the fuse to burn out and avoid repeatedly burning out the fuse.
Motor or electrical switch damage.	Contact the authorized service center for diagnosis and repair.	
Short run time of less than 15 minutes per charge	Undercharged battery	Charge the battery. A new battery should have been charged for at least 12 hours before using the vehicle for the first time and up to 8 hours after each subsequent use.
		Check all wires and connectors. Make sure the battery connector is tightly plugged into the charger connector and that the charger is plugged into the wall.
		Make sure the power flow to the wall outlet is on.

	The battery is old and will not accept a full charge.	Even with proper care, a rechargeable battery does not last forever. Average battery life is 1 to 2 years, depending on vehicle use and conditions. Replace only with a replacement battery.
	The brakes are not adjusted properly.	Refer to brake adjustment instructions.
The vehicle runs Sluggishly.	Driving conditions are too stressful.	Use only on solid, flat, clean, and dry Surfaces such as pavement or level ground.
	Tires are not properly inflated.	The tires are inflated when shipped, but they invariably will lose some pressure between the point of manufacturing and your purchase. Refer to the tire instructions to properly inflate the tires.
	The vehicle is overloaded.	Make sure you do not overload the vehicle by allowing more than one rider at a time, exceeding the maximum weight limit, going up too steep a hill, or towing objects behind the vehicle. If the vehicle is overheated, the temperature circuit protector will slow the motor down and, if the condition continues, will shut off power to the motor. Correct the driving conditions that caused the overheating, wait 5-10 minutes, and then resume riding. Avoid repeatedly overheating the unit.
Sometimes the vehicle doesn't run, but other times it does.	Loose wires or connectors	Check all wires around the motors and all connectors to make sure they are tight.
	Motor or electrical Switch damage.	Contact the authorized service center for diagnosis and repair.
The charger gets warm during use.	Normal response to Charger use	No action required. This is normal for some Chargers and is no cause for concern. If your charger does not get warm during use, it does not mean that it is not working properly.
The vehicle does not stop when applying the brakes.	The brakes are not adjusted properly.	Refer to brake instructions to properly adjust the Brakes.
The vehicle makes loud noises or grinding sounds	The chain is too dry	Apply a lubricant to the chain.

# CIRCUIT DIAGRAM:



1	2	3	4	5	6	7	8	9
Function Summary	Function Summary	Throttle	Throttle	Controller	Controller	Brake	Brake	Brake
7P/Socket	7P/Plug	3P/Socket	3P/Plug	8P/Socket	8P/Plug	2P/Plug	2P/Socket	2P/Socket
								
10	11	12	13	14	15	16	17	18
Brake	Ignition Switch	Ignition Switch	Display	Display	Kill Switch	Kill Switch	Throttle	Throttle
2P/Plug	2P/Socket	2P/Plug	4P/Socket	4P/Plug	2P/Plug	2P/Socket	3P/Plug	3P/Socket
								



Please read the owner's manual before riding.



Never operate this vehicle if you are under age 16.



Never use the vehicle on a public road. OFF-ROAD use only.



Never ride with a passenger.



Always use an approved helmet and protective gear.



NEVER use with drugs or alcohol.



Cold tire pressure.