

RFN ARES RALLY PRO OWNER'S MANUAL

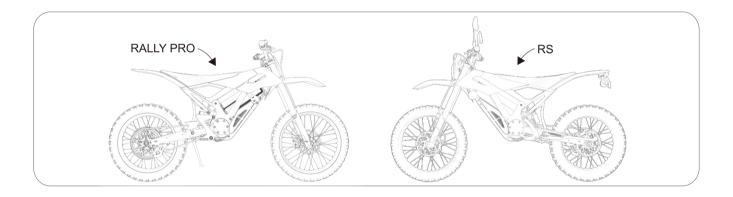
Original Instructions

1. Introduction

To all RFN owners:

Thank you for your trust to the RFN brand, we will accompany you to make exploration of the life as much as possible, look for unknown answers and wonderful off-road life.

This manual explains the correct and safe use of the vehicle and a simple inspection before using. Please read the operation instructions carefully. If you have any questions about the operation or maintenance of your vehicle, please contact an authorized dealer



1

Warning

It refers to a warning instruction to be abided by and failure of abiding by the warning may result in serious injury or death of the vehicle operator.

Caution

Warning refers to a special precaution to avoid damage to the vehicle and it indicated the important information in this manual.

Caution

Please always leave this manual to the next owner for maintenance/service records, even if the vehicle is sold out. This manual contains most of the information related to the vehicle. However, the manufacturer will continue to improve its product design and quality which may result in differences between the manual and the actual vehicle. If you have any questions about this, please consult your dealer.

Warning

The instructions in this User Manual are prepared for your own safety. Please read this User Manual carefully before operating the vehicle to ensure that you have a thorough understanding of how to operate and control. Only if you have an offcial driver's license and good training can you have the ability to safely drive this vehicle Otherwise, do not drive this vehicle to avoid injury.

Please maintain the vehicle in accordance with the prescribed vehicle maintenance interval so as to ensure the safety and prolong the service life of the vehicle.

*Products and specifications will be subject to change without separate notice

Safety depends, to a large extent, on riding skills.

The following requirements shall be abided by the driver:

The driver shall receive good driving training in all functions of the vehicle with the necessary technical instruction for off-road riding, as well as wear the protective gear for off-road equipment, and when driving, please do not drink alcohol.

Please read all maintenance instructions in the User Manual.

The vehicle shall only be repaired by an authorized dealer.

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Check the condition of the vehicle and its surroundings before starting so as to avoid accidents.

Do not lend the vehicle to a driver who is not fit to drive the vehicle.

Correct posture is important to maintain balance.

Grasp the handlebars with both hands, keep your upper body upright, and keep both feet on the pedals

Do not ride after drinking alcohol or taking drugs

Anti-armor

Please wear riding armor with protective features. off-road armor is required for driving this type of vehicle to prevent injury as much as possible.

Helmet

Your helmet constitutes the most important components of your protective gear. A well-tested helmet can prevent the driver from serious head injuries caused by accidents. Professional off-road helmets shall be worn properly.

Goggles

Ordinary glasses and sunglasses are not enough for providing adequate protection. Professional goggles for off-road helmets are required.

Off-road gloves

Professional off-road gloves with functions of joint protection and knuckle protection are required to reduce the degree of hand injury in the event of an accident

Boots

Professional, sturdy, high-top off-road boots are required to improve leg and foot protection and riding safety.

Clothing

Professional long sleeves and pants shall be wore to protect your arms and legs. The off-road suits and armor could provide better protection.

Modifications

Modifying or removing original parts from a vehicle that has not been approved by the manufacturer may make it less safe and cause serious injury. You are responsible for the consequences caused by such kind of modification and removal.

Caution for Load

Adding accessories or increasing the load can lead to changes in weight distribution, affecting steering and balance which easily lead to the traffc accidents.

Standard Load

Max Load Capacity <120 kg

When loading locates within this limit, please remember the followings: The center of gravity of work shall be kept as low as possible. Distribute the weight as evenly as possible to maintain balance.

Loads must be securely attached to the vehicle.

Do not hang the heavy or bulky objects on the handlebars or forks which may cause imbalance and slow steering response of the vehicle.

3. Safe Driving

Accessories

The manufacturer will only use the original accessories supplied by the manufacturer for your vehicle. Please contact an authorized dealer for this purpose. The manufacturer refuses to bear any and all responsibilities and duties for the accessories provided by third party and all of such responsibilities and duties shall be assumed by you.

When installing accessories, please remember the following:
Do not install any accessory or transport any load that obstructs or limits
ground clearance, suspension travel, steering, lighting, indicators or reflectors.
Accessories installed on handlebars or front wheel suspension may impair
the steering performance. Please keep the accessories to be installed as light
as possible.

Do not install any luggage rack that may affect the stability of the vehicle when facing the wind.

Electrical accessories have been installed by an authorized dealer to match the capacity of the electrical system.

Improper installation may result in loss of lighting, low motor power reduction and vehicle damage.

Other Safety Instructions

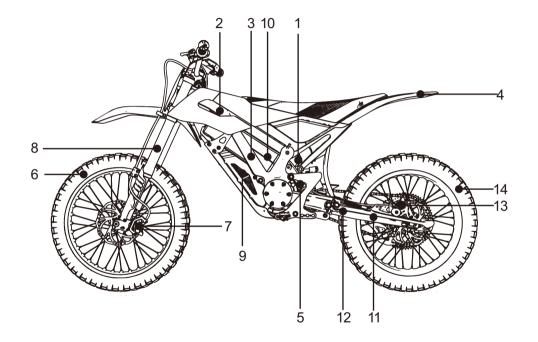
Drive slowly and brake carefully on wet roads or slick surfaces.

Safety Stickers

- 1. Warning stickers of driving behavior
- 2. Warning stickers of major switch
- 3. Warning stickers of battery
- 4. Warning stickers of air pressure
- 5. Warning stickers of use

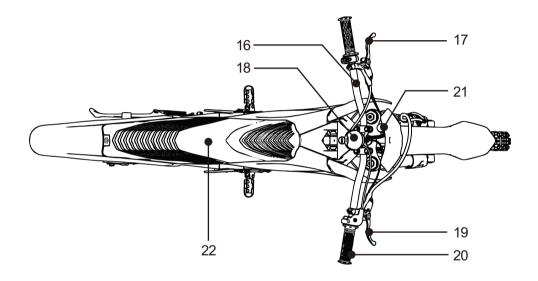
Left side view

- 1. Charging port
- 2.Battery fixing lock
- 3.Frame
- 4.Rear fender
- 5.Rear shock absorber
- 6.Front wheel
- 7.Front brake assy
- 8.Front suspension fork
- 9.Motor controller
- 10.Lithium battery pack
- 11.Side stand
- 12.Rear swing arm
- 13.Rear brake assy
- 14.Rear wheel



4. Description of Vehicle Parts

- <u>Top view</u> 16. Handlebar
- 17.Rear brake lever
- 18.Instrument panel 19. Front brake lever
- 20.Acceleration twist throttle
- 21.Master key switch
- 22.Seat



5. Manufacturer Information

Manufacturer

Name:Zhejiang Apollo Sports Technology Co., Ltd. Add:No.12-14 of Jinheng Second Road, Jinyanshan Industrial Zone, Quanxi Town, Wuyi County, Jinhua City, Zhejiang Province, China

Power Rating

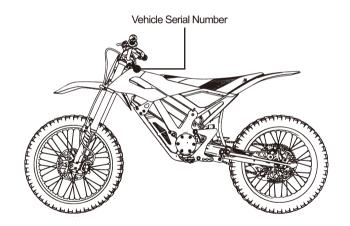
DC brushless motor Waterproof grade:IP67 Insulation grade:F Rated speed:2,200r/min Rated power:5KW Rated voltage:72V Code:10000-BEII-111Y Designed by AM

L08Y10T06N1000009

★ Vehicle Serial Number ★

Vehicle Serial Number

Please note that the vehicle serial number SN will be used when ordering spare parts from an authorized dealer or in the event of theft of the vehicle. It is engraved on the right side of the steering head tube of the frame.



6. Display and control devices

6.1 Main Switch Controls Power:



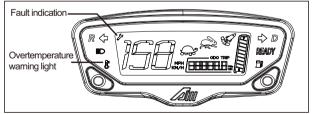
6.2 Power on Turn the key to "O" position The meter will light up, after retracting the side stand, "Ready" on meter lights up, it can be ridden normally.

Attention

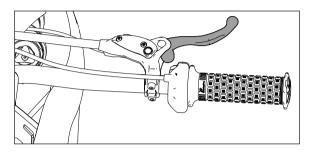
If the side stand is put down, it will not be able to unlock P gear for riding

- 6.3 Turn off Turn the key to "

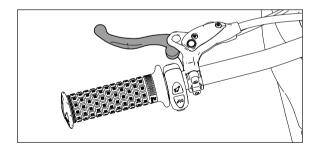
 All electrical systems are turned off
- 6.4 Fault Warning
 - 1. When a fault occurs, the speed will turn into a blinking fault code indicating the specific fault; The fault indicator blinks when a fault occurs.
 - 2. When the battery, motor and controller exceed the limit temperature, the overtemperature warning light will be on.



6.5 The brake lever for the front brakes is located on the right handlebar.

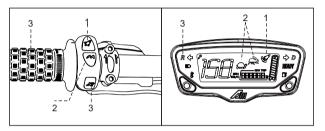


6.6 The brake lever for the rear brakes is located on the left handlebar. In case of applying the brakes, pull the lever toward the handlebars.



6.7 The button mechanism on the handlebars

- Rocket mode (1
- Tortoise/Rabbit mode switch (2
- R reverse (3



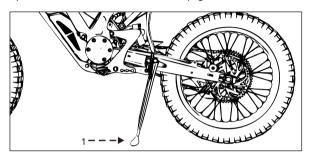
1.Rocket mode

The vehicle will run at peak power, and this mode will be maintained for 9s at a time. It will automatically enter the original mode after 9s.

- Switch between the tortoise mode and rabbit mode: click once to switch between tortoise mode and rabbit mode; when soc <20 %, it will automatically enter into the tortoise mode, rabbit mode and rocket mode will automatically prohibit triggering.
 - * The dynamic mark indicates the current status. If the indicator is on long, it indicates that the user can enter. If the indicator is off, it indicates that the user cannot enter.
- 3. Reverse: enter the reverse mode after long press 2 seconds when the vehicle is stationary, max speed <9km/H

6.8 Side stand

- Side stand(1) is located on the left side of the vehicle.
- Open the side stand to make the vehicle upright.

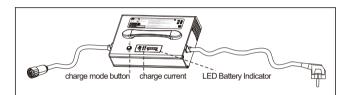


It's on the left side of the vehicle. Open the side stand to make the
vehicle upright. P gear cannot be unlocked when the side stand is open.
After the vehicle stands for three minutes, the vehicle enters P gear
without power output (hold the brake levers for 2s and unlock it to enter
forward gear)

6. Display and control devices

6.9 Battery Charger

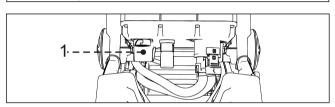
- The vehicle is equipped with the battery charger. If there is only one red indicator light left on the meter, please charge the vehicle immediately.
 - Only the factory-supplied charger could be used to charge the battery.
- There are two charging modes (corresponding to the relevant indicator lights), and the charging rate can be adjusted by pressing and holding the button on the charger for 2 seconds. The charging rate can be switched between 10A or 5A.



6.10 Charging Port

- The charging port (1) is located on the battery.
- The battery can be charged when it is mounted on or removed from the vehicle. It is recommended to cover the charging port dust cover when not charging to avoid foreign objects entering and damaging the charging port or corroding the charging port and other dangerous situations.

Note The indicator light has the function of status indication and fault indication.



Itom	Charging status	battery voltage	Indicator Status		
Iteili	Charging status	Charging current	illuicator status		
1	Empty load	Battery Unconnected	Fast charging indicator and Slow charging indicator flash		
2	Charging	between 5A and 10A (when the BMS specifies the charging current is less	d 10A (when the BMS specifies the charging current is less charging flash, the completed capacity indicator are often on; when the current switch button		
3	3 Battery fully charger		Fast charging indicator and Slow charging indicator goes off; All capacity indicators are often on		
		Battery under voltage or short -circuit (battery voltage is lower than 44V)	The 20% and 40% battery capacity indicator flickering faster		
4	error indication	Battery overvoltage (battery voltage is higher than 85V)	The 20% ,40% and 60% battery capacity indicator flickering faster		
4		Battery anti -connection or overheating alarm	The 20% ,40% , 60% and 80% battery capacity indicator flickering faster		
		Charger fault (power supply overvoltage, overcurrent, overheating)	The 20%,40% ,60% ,80% and 100% battery capacity indicator flickering faster		

6.11 Battery

• The battery is located under the battery cover.

Note: Please observe the warning on the battery, including: battery charging working temperature: 0~45°C, battery discharging working temperature: -20°C~55°C

- The battery with low remaining power shall be fully charged before placing it aside for a long time, it is recommended to charge the battery every 30 days when it is not in use, and the battery may enter into the hibernation mode due to low power for more than 90 days without use.
- After entering the hibernation mode, the battery can be activated by the charger: first plug in the charger, and then connect the charger to the main supply.



Warning!

- Do not disassemble or bump the battery.
- Do not leave the battery in an environment of which temperature fails to locate in the range of -25 ~ 70°C.
- Do not put the battery with unconnected or unsealed ports into liquids such as water, acid, alkali, salt water, etc.
- Please read the warning on the battery carefully before use.

- 6.12 The arc power indicator has 10 cells, each cell corresponds to 10% power, decreasing from right to left.
 - 1 cell: remaining 10% power, the charging indicator flashe, please charge it immediately.
 - 2 cells: remaining 20% power
 - 3 -10 cells: remaining 30% 100% power

Backlight switch button used to turn on/off the backlight of the instrument Speed and mileage unit switch button used to switch speed and mileage unit

Caution

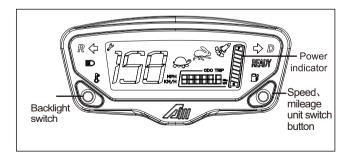
Please charge the battery on a regularly basis

Avoid completely using up the battery.

Do not turn on the battery while it is being charged in the vehicle.

Warning!

- If the battery power drops below 20%, the power will be limited and the vehicle will enter into the tortoise mode in a forced manner.
- Please charge the battery immediately if the power drops below 10%!
 Otherwise, it might cause irreparable damage.



6. Display and control devices

- 6.13 Operation on Charging the Battery
 - 1. Turn off the vehicle.
 - 2. Insert the charger plug into the battery.
 - 3. Insert the power plug into a 220 V socket.
 - 4. The charger indicator will operate while the battery is charging.
 - 5. When the battery is fully charged, the charger power indicator will be fully illuminated and the operating noise will be reduced.
 - 6. Disconnect the plug.



Be careful

Charge the battery regularly

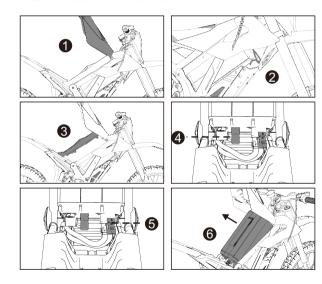
To avoid completely draining the battery charge

Do not turn on the battery while it is charging in the vehicle.

Warning!

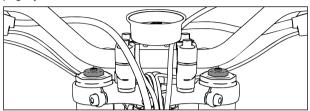
 Please note that never drain the battery until it is completely depleted, otherwise, it will permanently damage the battery. A damaged battery caused by over discharge due to improper operation cannot be repaired and must be replaced at the expense of user.

- 6.14 Remove the battery
 - Remove the cushion (1
 - Open the locking mechanism (2
 - Take off the battery cover (3
 - Unplug the communication plug (4
 - Unplug the power supply (5
 - Lift up the battery (6
- 6.15 Insert the battery
 - Insert the batteries in reverse order.

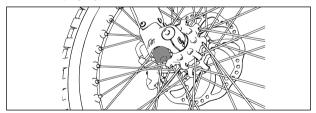


6.16 Front Shock Adjustment

• The knob above the front shock absorber is responsible for rebound damping adjustment



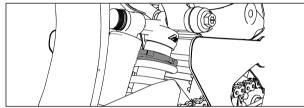
- * The rebound damping knob controls the damping during rebound. If theknob is turned clockwise, the shock rebound is slower. If the knob is turned counterclockwise, the shock rebound will be faster.
- The knob below the front shock absorber is responsible for the compression damping adjustment.



* The compression damping adjustment knob controls the damping during compression. If the knob is turned clockwise, the compression of the damper becomes stiffer. If the knob is turned counterclockwise, the compression of the shock becomes softer.

6.17 Adjusting the rear shock

- · Adjusting the rear shock preload
- To adjust the spring preload of the damper, please turn the adjusting knob on the top of the damper (1)
 - On the lower side of the damper is the rebound adjustment knob (2).
 - The adjustment knob for compression damping (3) is located at the top of the shock





- * The rebound damping knob controls the damping during rebound. If the knob is turned clockwise, the shock rebound is slower. If the knob is turned counterclockwise, the shock rebound will be faster.
- *The compression damping adjustment knob controls the damping during compression. If the knob is turned clockwise, the compression of the damper becomes stiffer. If the knob is turned counterclockwise, the compression of the shock becomes softer.

7. Inspection before riding

Caution

For your safety, please check the condition of your vehicle before each use so as to avoid safety incidents caused by vehicle failure.

Warning!

- If a part of the vehicle is found to be defective, do not ride the vehicle.
- The manufacturer does not provide any warranty for problems caused by negligence of authorized dealers or lack of care and maintenance of the vehicle user. The manufacturer does not provide any warranty for damage to the vehicle or safety accidents due to violation operation.

7.1 Check list before riding

Check list belore flame	
Items to be checked	Contents to be checked
	Carry out a check when the vehicle is at a standstill.
	When you squeeze the brake, you must not hold the brake lever all the way close to the handlebars.
Brake System	The braking system must work with a constant pressure. If it takes several repeated pull of the brake lever to achieve the required
Brake Oystern	braking force, contact an authorized dealer to inspect the brake system.
	Check the brake lines for fluid leaks.
	Check the brake pads. If the brake pads are worn to only 1 mm at any point, replace two pads
	Check whether the wheels are running properly.
Tire	Check whether the tires are damaged and the treads of tires are too shallow
	Check tire pressure and correct if necessary
Throttle	Check whether the function of the throttle is normal, and the rotation is smooth without jamming. Whether the return position is normal.
Side Stand	Check the operating status. If the vehicle power is on and the throttle lever is turned, the side stand must be folded.
Body and Hanging Device	Check whether the bolts, nuts and screws are tight
	Check the function of the shock absorbers by compressing them several times. Also check the front and rear shock absorbers for leaks and dirt.
Chassis	Apply the front brakes and push down on the handle several times to check whether the front shocks are working properly. Press the seat hard
	several times to check whether the rear shock absorber is working properly.
Display and Lighting	Check whether all lights on the display and vehicle are working properly. It is especially important in order to be noticeable to other traffic participants.
Battery	Make sure the battery is always fully charged before use.
Steering Check whether there are no faults and lubricate the steering pivot if necessary	
2.231119	

Warning!

 Before departure, please familiarize yourself with all of the control components of the vehicle and how to operate them Contact your dealer if you have any questions.

8.1 Starting

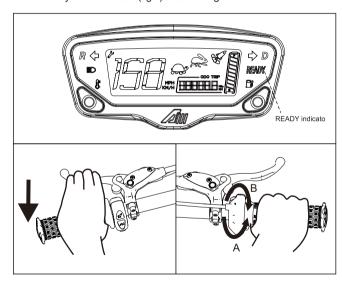
Turn the key to ' ? '

Caution

Make sure the battery is properly installed and fully charged.

8.2 Riding

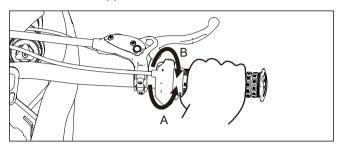
- 1. Retract the side stand
- 2. Sit on the seat.
- 3. Squeeze and hold the brake lever for more than 2 seconds and the meter shows ready status (Or take away the emergency power off switch for 2 seconds and put back after the "ready" lights up)
 - 4. Slowly turn the throttle (right) to start riding.



8. Riding operation

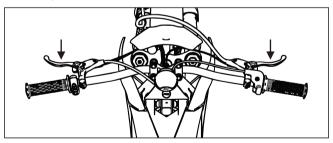
8.3 Throttle

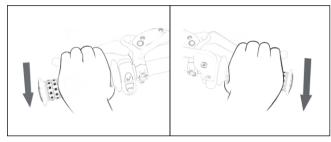
• To accelerate, turn the throttle to the direction (a); To decelerate, turn the throttle to the direction (b), and use the brake.



8.4 Braking

- Turn the throttle fully (b) with no tendency to continue accelerating.
- Use the front and rear brakes simultaneously and increase the braking force evenly





Rear Wheel Brakes

Front Wheel Brakes

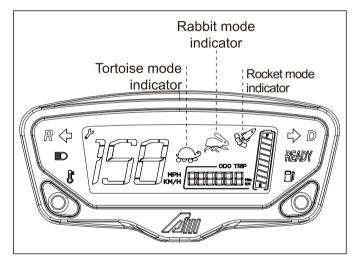
Warning!

- Avoid sudden or violent braking, which can cause the vehicle's tires to skirl
- Braking distances will be extended when braking is applied on slippery surfaces.
- Avoid traveling in bad weather such as heavy rain.
- Drive on dry roads. Slowly descend slopes
- Control the vehicle and avoid overheating the brakes

8.5 Selecting a riding mode

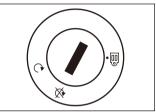
Use the Riding Mode button to select from three modes:

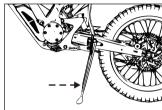
- Tortoise mode: In this mode, power delivery is limited under which the tortoise icon on the meter will flash
- Rabbit mode: In this mode, the available power is greater under which the rabbit icon on the meter will flash
- Rocket mode: Press the rocket button to turn on this mode. After turning on the mode, the maximum power output will last for 9 seconds under which the rocket icon on the meter will flash



8.6 Parking

- Turn off the main switch of the vehicle
- Put down the side stand.





Warning!

• Make sure that the vehicle is parked on a stable and level ground

• The safety and condition of your vehicle are influenced by the proper maintenance, regular inspections, adjustments and lubrication. In the following pages, you will refer to the corresponding instructions. Maintenance information can help you with preventive maintenance and minor repairs. However, some maintenance operations require special tools.

Warning!

- Do not perform any maintenance work that you are not familiar with or that could affect the warranty service
- Changes to your vehicle that are not authorized by the manufacturer may result in changes to the vehicle's performance and affect safe driving. If the customer makes such changes without the manufacturer's authorization, the warranty claim would be invalid.
- Make sure the tires are at room temperature when checking tire pressure. Please check the tire pressure before each trip to ensure that the tire pressure is at a normal level

Caution

Maintenance work must be done by authorized professional distributors

9.1 Tires

• For optimal performance, durability and safe operation of your tires, please refer to the following tire instructions.

Tire pressure

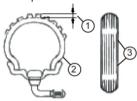
Tire pressure must be checked before each trip and corrected if necessary. Check tire pressure on a regular basis.

Tire Pressure				
Front Tire	1. 8Bar			
Rear Tire	1. 8Bar			

Warning!

 Do not overload your vehicle. The higher the load on the vehicle, the higher the pressure when the tires rotate and the higher the resistance of the tires, brakes and steering. This can lead to damage or accidents. A reasonable weight distribution on your vehicle is important for your safety!

- Tire Inspection
- 1.Tread depth inspection
- 2. Tire sidewall inspection
- 3. Tire wear warning line inspection



Warning!

- Please check the wear of your tires before each trip. If you find that your tires have reached the tire wear warning line, please contact a professional to replace with new tires immediately.
- This is necessary for your safety

Caution

The values we give are technical and may differ from the legal requirements in your area.

Minimum tire tread depth

Front and rear: >3 mm

Warning!

- Tire wear may affect the stability of the vehicle.
- Do not continue riding if the tires are worn to the limit or if they are damaged. It is the responsibility of the dealer to check the condition of the tires when selling the vehicle and when performing maintenance work on the vehicle.

Size of tires/rims

Front

Rim: 1. 6x19 Tire: 70/100-19

Rear

Rim: 1.85x18 Tire: 90/100-18

*In order to ensure the best performance, durability and safe operation of the vehicle, please operate the rim in question according to the following instructions

*Check the rims for cracks and deformation before every ride. Have damaged rims replaced by an authorized dealer. Do not make any repairs to the rims yourself. A deformed or broken rim must be replaced.

9.2 Braking System

1. Brake Tie Rods

Caution

Please check the front and rear brake lever to ensure that they are working effectively.

Make sure that the brake system provides suffcient braking power.

If abnormalities are found, please contact an authorized dealer to check the brake system

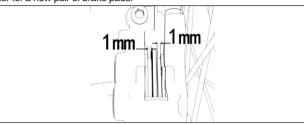
Warning!

- If you pull the brake lever and find that the braking effect is reduced by a soft feel. This is due to water or air entering the braking system, which will result in braking power reducing and can lead to loss of control.
 - If this is found, please contact an authorized dealer immediately!

2. Brake Pads

- The front and rear brake pads must be checked before each journey and according to the maintenance table
- Brake Pad Inspection

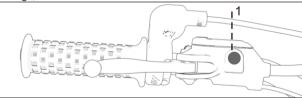
If the brake pads are worn to a thickness of 1mm, contact an authorized dealer for a new pair of brake pads.



3. Brake Fluid DOT4

If you encountered problems with your brakes, please contact an authorized dealer. Brake fluid can only be checked and replaced by that dealer.

Please ensure that the brake fluid is always filled with (1) the brake fluid viewing window and that the brake fluid is clear. If there is any abnormality (reduced brake fluid, turbidity), please contact the authorized dealer in time and change;



- 9.3 Lubricating the brake levers
- The turning points of the brake levers of the front and rear brakes must be lubricated on a regular basis.
 - Turning points of the brake lever
- 9.4 Side stand

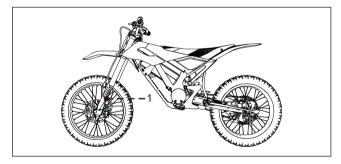
Caution Check the side stand on a regular basis Lubricate the metal friction surfaces of the side brackets on a regular basis

Warning!

• If the side stand do not fold smoothly, please contact an authorized dealer.

9.5 Suspension components

- The suspension components (front shock absorber and rear shock absorber) must be checked briefly before each trip and repaired the same if necessary. The shock absorber must be smooth and shake-free.
 Otherwise, please ask an authorized dealer to check the vehicle.
- · Check the shock absorbers
 - 1. Park the vehicle horizontally and upright
 - 2. Check the running surface (1) for scratches, damage and oil leaks.
- 3. Using the front brake, push the handle down several times to check if the front shock absorber is working properly.
- 4. Press the seat hard several times to check whether the shock absorber is working properly or not.



Warning!

- Before riding, please check that the front shock and shock guard will not interfere with the tires and brake system, which may lead to a safety accident.
- If this is found, please contact an authorized dealer immediately.

9.6 Steering Bearing Inspection

- 1. Place the vehicle on the lift and remove the front wheels
- 2. Lift the front shock and try to wiggle it back and forth.
- 3. If a wobble frame condition is detected, contact your dealer to have the steering system checked.

Warning!

- Please check the steering bearing regularly. A worn or loose steering head bearing is dangerous.
- Please maintain and lubricate the steering bearings regularly, and replace them if necessary.

9.7 Wheel bearings

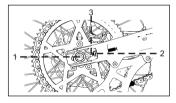
The wheel bearings of the wheels must be checked according to the service chart

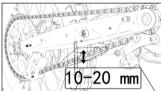
Caution

If you find a play function on the wheel, or if the wheel does not turn easily, please check whether the wheel bearing is authorized dealer.

9.8 Chain Tension

- Incorrect chain tension can damage the chain discs, bearings, sprockets
 or the chain itself. In the worst case, the chain may break or jump over the
 sprockets, which might lead to traffic accidents. Adjustment to the chain
 tension shall follow:
 - 1. Loosen the axle nut (1)
 - 2. Loosen the lock nut (2)
 - 3. Turn the adjusting screw (3) to set the correct tension.
- 4. When there is no load on the vehicle, the chain tension should be 5-10mm (4)
 - 5. Tighten in reverse order.
- Tightening torque Rear axle nut(1)8 5 - 9 5 Nm





9.9 Battery

- The vehicle is equipped with a maintenance-free battery
- Never open the battery, which would be dangerous and would permanently and severely damage the battery. Please ensure that the battery is kept out of other hazardous environments such as open flames or cigarettes, and that there is adequate ventilation.
- When charging the battery indoors, make sure that the battery is always placed in a safe place.
- Charging the battery
 For information on charging the battery, see the chapter "Instruments and Operation".

9.10 Fuses

- If the vehicle's instrument panel does not work after the circuit breaker and main switch are turned on, it may be caused by a blown fuse.
- · Replace the fuse
 - 1. Turn off the circuit breaker and disconnect the battery.
- 2. Open the white and transparent fuse holder front of the battery, and replace the fuse.
 - Glass tube fuse 10A
 - 3. Check the function of the electrical components.
- If the fuse breaks again, contact your dealer to check the electrical system.

10. Trouble shooting

- Although your vehicle has been thoroughly checked before delivery, problems may also occur during operation.
- If your vehicle needs to be repaired, please contact an authorized dealer who has the necessary tools, expertise and experience to properly repair your vehicle. Please use genuine factory parts for repairs. Replicas may look similar, but are often of lower quality and can cause more serious damage.

NO.	Symptom	Error code on the display	Reason	Troubleshooting method
			1.kickstand switch fault	1.Pls remove the kickstand switch or change it
1	When the bike is powered on , the "ready "light doesn't activate		2.brake switch fault	2.Pls remove the brake switch or change it
	light doesn't activate		3. The emergency switch is damaged or the key is not in place	3.Pls put the emergency switch back or change it
			1.battery fault	1.Pls check the cable or change the battery
	The biles is a surround on and a stire to the	1.10	2.controller fault	2.Pls reconnect and tighten the place have been repaired
2		1. 20 2. 30	3.motor fault	3.Pls reconnect and tighten the place have been repaired
		2.50	4.Throttle fault or cannot return back	4.Pls check the connector and cable of throttle or change throttle
			5.Brake power off switch is damaged	5.Pls check the brake lever and brake switch
		1.The display only shows	1. When the battery capacity is lower than 20%, will enter into the turtle mode	1.Pls charge the battery fully
		two grids of battery power 2. 11 21	2.The battery temperature is higher than 60 or lower than 0	2.Pls wait for the resume of temperature
3		3. 21	3.The controller temperature is higher than 90	3.Pls wait for the temperature is lower than the limit value
	0,000 10 10 10 10 10 10 10 10 10 10 10 10	4. 31	4.The motor temperature is higher than 120	4.Pls wait for the temperature is lower than the limit value
		5. 50	5.The throttle fault	5.The maintenance center change the throttle controller
			The tire pressure is insufficient	1.Pls make sure the tire pressure is appropriate
			2.Not Charge the battery fully or charger fault	2.Pls charge the battery fully or check if the charger plug connect well or not
4	Insufficient mileage of a single charge		The brake adjustment is not ok , the driving resistance is excessive.	3.Pls adjust the brake assay again
			4.The battery is aged or damaged	4.Pls change the battery
			5. There are too many uphill, headwind, frequent acceleration and deceleration, heavy load	5.lt is normal to reduce the mileage in this certain environment
			Battery undervoltage (lower than 44V) or output short circuit	1.Restore the voltage above 56V or replace the battery
		1.Two lights are flashing	2.Battery overvoltage (higher than 85V)	2.Reduce the voltage to less than 84V or replace the battery
5	2 Three lights are flashing 3. The positive and negative terminals of the battery are connected back	3.The positive and negative terminals of the battery are connected back or the battery is overheating	Check the connection plug and wait for the battery temperature to drop below the limit value.	
		4.Five lights are flashing	4.Charger fault	Wait until the temperature of the charger is lower than the limit value or replace the charger
			5.The charger plug falls off or the connection is loose	5.Check whether the charging input and output plugs are connected properly
6	Noise of plastic body in driving		The tightness of the chain is not reasonable	Adjust the tightness of the chain
7	Other Fault	When you meet a fault that cannot be removed under the above guidance or a fa cannot be determined.		If have these situation, please contact the supplier or the maintenance station. On not open the above parts without authorization, otherwise you will lose the
7	Oliei Fault		2.The damage of motor, controller, charger and battery	warranty commitment of the company.

11.1 Cleaning the vehicle

- Regular and proper cleaning of your vehicle will extend its life of service
- Preparation
 - 1. Wait until the motor cools down.
 - 2. Close all covers and electrical connections to prevent from water.
- Do not use gasoline, rust remover, brake disc cleaner, etc. to clean
 plastic parts and painted parts, as this will cause them to deteriorate and be
 damaged Clean the vehicle as soon as possible after it has been driven in
 an environment containing salt.

Caution

It is best to clean the vehicle only with water and mild detergents or special cleaners provided by the professional dealers. Acidic cleaners are prohibited from cleaning the vehicle. If such acidic cleaner are used accidentally, please clean the area immediately to avoid damage to the vehicle. Then, use a dry towel or sponge to dry the vehicle.

Please always follow the care and cleaning instructions provided by the manufacturer

Safety

Do not use high-pressure water guns or steam cleaners to clean the vehicle. This may cause water to enter bearings or electrical components, such as connections, switches or lighting, and may cause damage to brake pads, seals, paint or other parts.

Caution

Salt is of extreme corrosion

Therefore, these cleaning instructions shall be abided by: wait for the motor to be cooled, as well as use water and a mild detergent. Clean all metals and then treat parts with rust inhibiting spray, including inscriptions and nickel plated parts

Clean the dirt with warm water, a mild detergent and a soft, clean sponge. Then rinse thoroughly with clean water. Use a small brush to clean hard-to-reach areas.

11.2 After cleaning

In order to avoid rusting, we recommend the use of a suitable care product

Warning!

 Make sure that no cleaning agents and lubricants are left on the brake discs, which may cause the brake system to fail while the vehicle is in motion and cause safety accidents. If the brake system is contaminated with such substances, please remove them before use

11. Cleaning and storage

- 11.3 Store the vehicle for a long time (two weeks and more)
 - · Clean the vehicle.
- 1. Remove the battery from the vehicle. Follow the instructions in the chapter "Instruments and controls".
- 2. Check or adjust the tire pressure and lift the vehicle off the ground so that all wheels are not in contact with the ground. If this is not possible, rotate the tires every month to avoid damage caused by partial stress on the tires over time.

Warning!

 If you are not familiar with the battery, please contact a specialist dealer.

Caution

Always keep the battery charged. Storing a depleted battery will cause permanent damage to the battery

11.4 Battery Storage

- If the vehicle has not been used for more than one month, remove the battery from the vehicle, charge it, and store it in a dry place at 0-40° C. If the battery is stored for more than two months, check the battery level at least once a month and recharge the battery, if necessary.
- If store the battery for a long time, keep the battery cool and dry, and charge the battery for 2 hours every 3 months;
- Charge the battery before reinstallation.
- After installation, make sure the battery cables are properly connected.

Warning!

- Store the vehicle in a well-ventilated area. High humidity air can cause rust and corrosion. If you are not familiar with the battery, please contact a specialist dealer.
- 11.5 Short-term storage of the vehicle (within two weeks) Store the vehicle in a cool, dry place, protected by a tarpaulin if necessary

Battery					
Capacity:					
Cells:	LG Premium 21700 lithium cells				
Features: Removable, can be charged when installed in bike or separately.					
Voltage (nominal):	74V				
3 ()	Brake modes				
Brake mode 1:	Freewheel, no motor brake				
Brake mode 2:	Motor brake with energy regeneration				
	Brakes				
Disc:	Stainless steel, 210mm diameter, 2.0mm thickness				
Туре:	Mountain bike disc brakes, two piston calipers, alloy levers. Hand lever for front- and rear brake.				
	Charging				
0-100%:	3 hours				
0-80%:	2 hours				
Туре:	Variable voltage External charger for 100V-240V outlets				
	Controller				
Features:	Best-in-class power density and state-of-the-art motor control algorithms.				
	Drivetrain				
Chain:	420 chain with DX				
Electric motor:	Interior permanent magnet motor				
Front sprocket:	13 teeth				
Nominal power:	5 kW				
Peak power:	12.5 kW**				
Rear sprocket:	58 teeth				
Torque (motor axle):	60N·m				
Torque (wheel):	270N·m				
Type:	Direct drive, chain				
	Dimensions				
Fork angle:	24°				
Ground clearence:	320mm - 12.60"				
Offset:	15mm in triple clamps, 43mm in forks				
Seat height:	860mm - 33.86"				
Trail:	111mm - 4.37"				
Wheel base:	1330mm - 52.36"				
	Fenders & Bodywork				
Material:	PP/ABS plastic				

	Frame			
Build:	6082 aluminium - extruded, forged and CNC machined			
	Front suspension			
Travel:	200mm			
Туре:	Upside-down air forks featuring 43mm stanchion tubes for extra rigidity and strength, specially developed for RFN.Double shoulder adjustable front damper, 14-step adjustable damping			
	Handlebar			
Interface:	31.8mm			
Material:	Steel			
Rise:	22mm			
Width:	760mm			
	Rear suspension			
Туре:	240nm shock with RFN internals and spring. Used with linkage for optimal performance. Compression damping 9 segments / rebound damping 15 segments adjustable + Spring preload adjustable			
	Regulatory			
Classification:	off-road			
License:	None / USA, CE / EU			
Ride modes				
Ride mode 1:	Tortoise mode: The ultimate mode energy conservation exploration. Limited to 25 km/h with 3.5hrs battery range			
Ride mode 2:	Rabbit mode: Enduro or active trail riding. 1-2 h riding time			
Ride mode 3:	Rocket mode: Track and race mode, maximal torque and speed, riding time up to 1h			
Ride mode 4:	Reverse mode: Limited to 9 km/h			
	Speed & Range			
Range:	Trail/Enduro riding: 3.5 hours			
Top speed:	70km/h / 43.5 mph			
	Weight			
Battery:	15 kg			
Dry:	68 kg			
Max. load:	120kg (Not have bike & battery)			
	Wheels & Tires			
Hubs:	Forged and CNC aluminium RFN hubs with 20mm axle			
Rims:	F 19"/ R 18" (Motorcycle standard) re-inforced, triple chamber, 7050 aluminium			
Tires:	F: CST CM721 70/100-19 off-road , R: CST CM722 90/100-18 off-road			

13. Guarantee and warranty

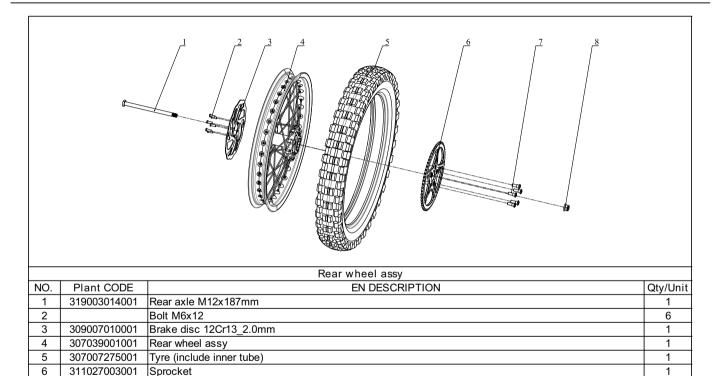
Before using the vehicle, read the operating instructions carefully to familiarize yourself with the operation of the vehicle. The operating, care and maintenance instructions provided in the operating manual must be followed to maintain warranty and claim conditions. Compliance with the operating, care and maintenance instructions will be conductive to significantly increasing the service life of the vehicle.

The vehicle is guaranteed to be free from defects in material and manufacture of critical components for a period of 24 months (limited warranty) or the legally applicable warranty period as from the date of first handover to the final customer (see after-sales service and warranty coverage form for details). Repairs may only be carried out in our authorized and specialized workshops. No warranty or guarantee may be claimed in case of damage caused by handling, operation or disregard of the operating, care and maintenance instructions. Warranties or guarantees may only be given if any damage is reported directly to the seller or to our authorized professional workshop. Claims made under warranty only entitle the customer to have the defect remedied. No compensation will be granted for direct and consequential damages. No warranty or guarantee claims may be made for neglected vehicles. Therefore, please observe the following instructions.

The vehicle body and trim parts must be cleaned of dirt on a regular basis. Do not use high-pressure cleaners, strong water sprays, sharp, aggressive or abrasive cleaners. This can permanently damage the surface and paint work and promote the formation of rust. Please always use gentle care products. Your professional dealer will be happy to advise you. Please treat aluminum parts with a refined finish (chrome plated, anodized or other refined finish) with the appropriate care product to prevent oxidation. Please always protect frames and metal parts from corrosion with proper corrosion protection.

Vehicles that are permanently parked outside must be covered with protective tarps to prevent weathering of painted parts and cracking of seats and other plastic parts.

No guarantees or warranties can be required if the vehicle is used in any competition

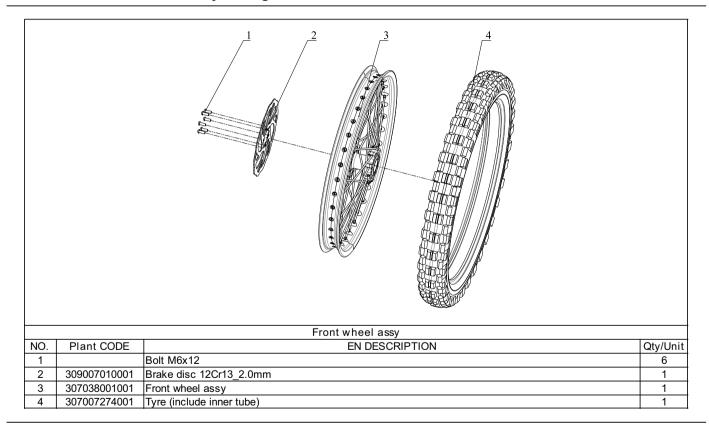


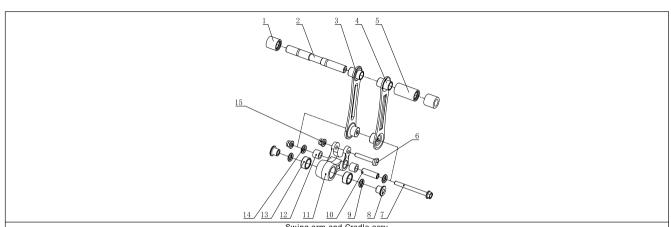
403030001001

404005009001

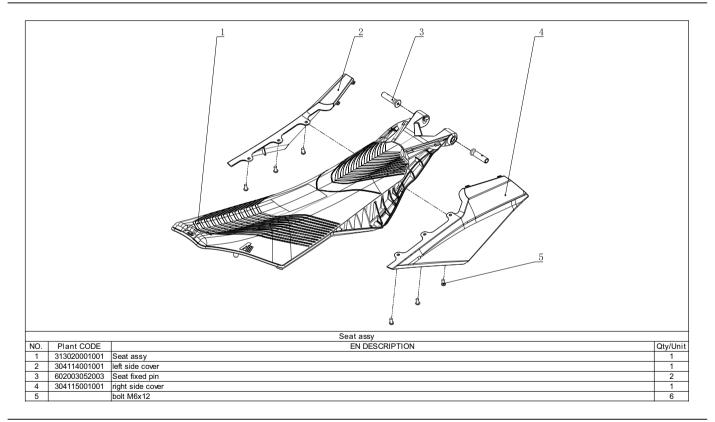
Bolt M8x25

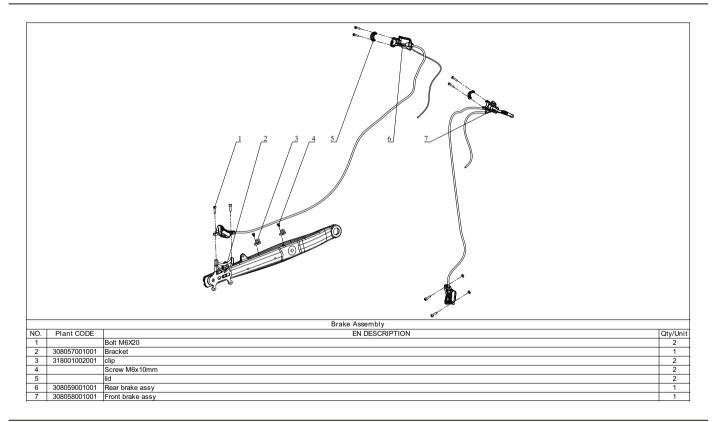
nut M12X1.25

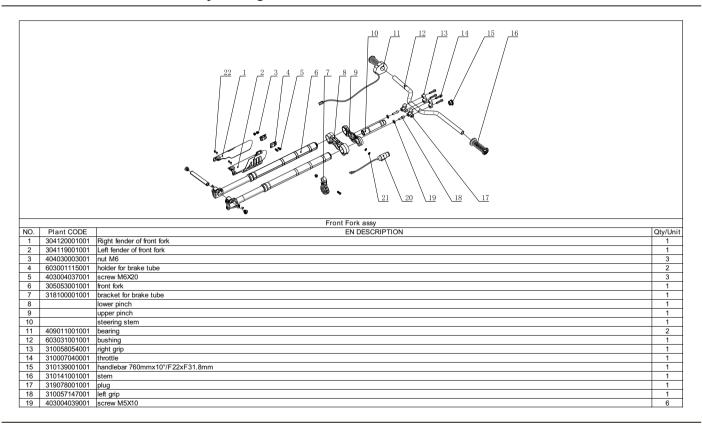


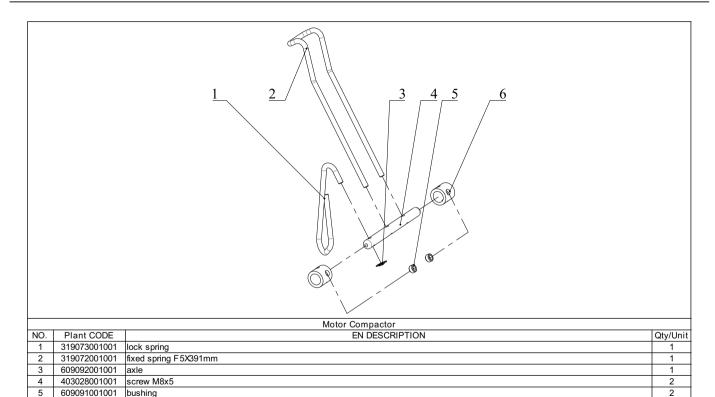


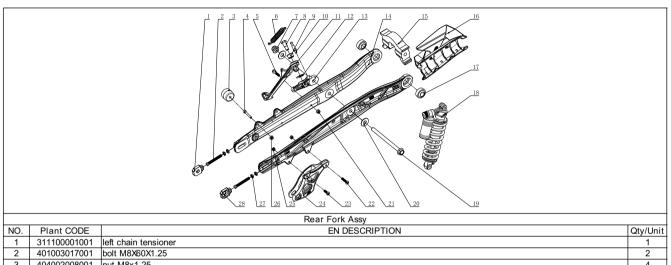
NO. Plant CODE EN DESCRIPTION Qt 1 305055001001 Nylon sleeve F16xF26x24.5 2 603027001001 spacer 8X 16X150mm 3 305055001002 Left swing arm assy 4 305057001002 Right swing arm assy 5 305055001001 Nylon sleeve F16xF26x51 6 401012001001 Bolt M8X1.25x85mm 7 401010004001 Bolt M8X1.25x85mm 8 319075002001 sealing ring F19x3.55mm 9 603028001001 spacer 10 603029001001 spacer 11 306008004001 Cradle 12 409009001001 bearing 13 409009002001 bearing 14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover 16 4040300002001 Nut M8x1.25			Swing arm and Cradle assy	
2 603027001001 spacer 8X 16X150mm 3 305052002002 Left swing arm assy 4 305055001001 Right swing arm assy 5 305055001001 Nylon sleeve F16xF26x51 6 401012001001 Bolt M8X1.25X50mm 7 401010004001 Bolt M8X1.25x85mm 8 319075002001 sealing ring F19x3.55mm 9 603028001001 spacer 10 603029001001 spacer 11 306008004001 Cradle 12 409009001001 bearing 13 409009002001 bearing 14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover	NO.	Plant CODE	EN DESCRIPTION	Qty/Unit
3 305052002002 Left swing arm assy 4 305057001002 Right swing arm assy 5 305055001001 Nylon sleeve F16xF26x51 6 401012001001 Bolt M8X1.25x50mm 7 401010004001 Bolt M8X1.25x85mm 8 319075002001 sealing ring F19x3.55mm 9 603028001001 spacer 10 603029001001 spacer 11 306008004001 Cradle 12 409009001001 bearing 13 409009002001 bearing 14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover	1	305056001001	Nylon sleeve F16xF26x24.5	2
4 305057001002 Right swing arm assy 5 305055001001 Nylon sleeve F16xF26x51 6 401012001001 Bolt M8X1.25x50mm 7 401010004001 Bolt M8X1.25x85mm 8 319075002001 sealing ring F19x3.55mm 9 603028001001 spacer 10 60302901001 spacer 11 306008004001 Cradle 12 409009001001 bearing 13 409009002001 bearing 14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover	2	603027001001	spacer 8X 16X150mm	1
5 305055001001 Nylon sleeve F16xF26x51 6 401012001001 Bolt M8X1.25X50mm 7 40101004001 Bolt M8X1.25X55mm 8 319075002001 sealing ring F19x3.55mm 9 603028001001 spacer 10 603029001001 spacer 11 306008004001 Cradle 12 409009002001 bearing 13 409009002001 bearing 14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover	3	305052002002	Left swing arm assy	1
6 401012001001 Bolt M8X1.25X50mm 7 401010004001 Bolt M8X1.25X85mm 8 319075002001 sealing ring F 19x3.55mm 9 603028001001 spacer 10 603029001001 spacer 11 306008004001 Cradle 12 409009001001 bearing 13 409009002001 bearing 14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover	4	305057001002	Right swing arm assy	1
7 401010004001 Bolt M8x1.25x85mm 8 319075002001 sealing ring F19x3.55mm 9 603028001001 spacer 10 603029001001 spacer 11 306008004001 Cradle 12 409009001001 bearing 13 409009002001 bearing 14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover	5	305055001001	Nylon sleeve F16xF26x51	2
8 319075002001 sealing ring F19x3.55mm 9 603028001001 spacer 10 603029001001 spacer 11 306008004001 Cradle 12 40900901001 bearing 13 409009002001 bealing ring F10x3.55mm 15 603030001001 Cradle Cover	6	401012001001	Bolt M8X1.25X50mm	1
9 603028001001 spacer 10 603029001001 spacer 11 306008004001 Cradle 12 409009001001 bearing 13 409009002001 bearing 14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover	7	401010004001	Bolt M8x1.25x85mm	1
10 603029001001 spacer 11 306008004001 Cradle 12 409009002001 bearing 13 409009002001 bearing 14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover	8	319075002001	sealing ring F19x3.55mm	1
11 306008004001 Cradle 12 409009001001 bearing 13 40900902001 bearing 14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover	9	603028001001	spacer	2
12 40900901001 bearing 13 40900902001 bearing 14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover	10	603029001001	spacer	2
13 409009002001 bearing 14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover	11	306008004001	Cradle	2
14 319075003001 sealing ring F10x3.55mm 15 603030001001 Cradle Cover	12	409009001001	bearing	2
15 603030001001 Cradle Cover	13	409009002001	bearing	2
	14			2
16 404030002001 Nut M8x1.25	15	603030001001	Cradle Cover	1
	16	404030002001	Nut M8x1.25	2





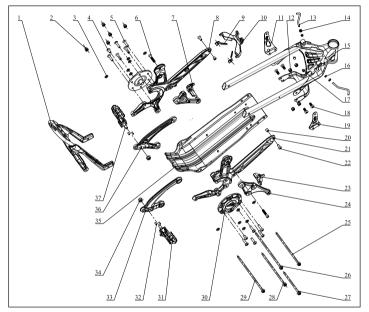


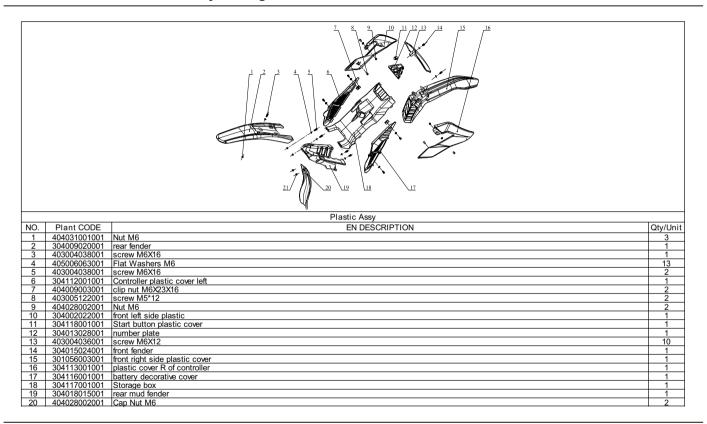


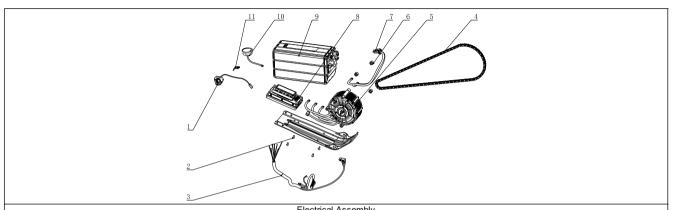


NO.	Plant CODE	EN DESCRIPTION	Qty/Unit
1	311100001001	left chain tensioner	1
2	401003017001	bolt M8X60X1.25	2
3	404002008001	nut M8x1.25	4
4	306037001001	right part of the rear swing arm	2
5	404005009001	nut M12X1.25	1
6	319077002001	spacer M12x32x2	2
7	409010001001	bearing	2
8	401011001001	bolt M12x1.25x170mm	1
9	305054001001	rear shock absorber	1
10	311101001001	right chain tensioner	1
11	404027001001	nut M6	2
12	301062001001	chain guide	1
13	403004040001	screw M6X20	1
14	403004041001	screw M6X30	1

Frame Assy				
NO.	Plant CODE	EN DESCRIPTION	Qty/Unit	
1	606023001001	606023001001 Subframe assembly		
3	404028001001	Triple Clamp Top Nut	5	
	319077001001	Washers	12	
4	403029002001	screw M8x1.25x16mm	2	
5	403029001001	screw M8X1.25X30mm	10	
6	401006004001	bolt M8x1.25x40mm	2	
7	603001113001	battery mount seat left	1	
8	601001479001	Left side beam of motor	1	
9	609094001002	Rubber fixing sheet	2	
10	319076001001	Cushioned rubber sleeve	1	
11	404029001001	Hexagon lock nuts with metal inserts M8x1.25	4	
12	303001456001	frame	1	
13	403029003001	screw M8x1.25x20mm	4	
14	404026001001	Nut M8	2	
15	601001480001	Right side beam of motor	1	
16	403029002001	screw M8x1.25x16mm	2	
17	603001114001	battery mount seat right	1	
18	603001112001	Shock mount seat	2	
19	401010001001	bolt M8X1.25X205mm	1	
20 21	401010002001	bolt M8X1.25X230mm	1	
21	401010003001 bolt M8X1.25X135mm		1	
22	401010001001	bolt M8X1.25X205mm	1	
23	401010002001	bolt M8X1.25X230mm	1	
24	601001478001	rear fork mount seat	2	
25	606009010001	Footrest right	1	
26	407008005001	locating pin	4	
27	606010006001	Footrest bracket right	1	
28	404005008001	nut	2	
29	609088002001	Motor guard	1	
30	606010005001	Footrest bracket left	1	
31	606009011001	Footrest right	1	
34	601001420003	Front side plastic fixing bracket	2	
35	404025001001	nut M6	2	
36	319016031001	Rubber gasket	2 2	
37	404028002001	Triple Clamp Top Nut M6	2	







		Electrical Assembly	
NO.	Plant CODE	EN DESCRIPTION	Qty/Unit
1	315135001001	emergency power off switch	1
2	310140001001	throttle cable	1
3	315090001001	Three- mode button switch	1
4	315136001001	Pull Wire Hall Governor	1
5	401008001001	bolt M6X14	4
6	315134001001	wiring harness assembly	1
7	311011278001	chain	1
8	315031039001	motor	1
9	609093001001	Motor spacer F8xF20x14.5mm	3
10	315137001001	DC output line	1
11	315021374001	Brushless Controller	1
12	315006025001	lithium battery	1
13	315063004001	power switch	1
14	601019007002	Dispaly bracket	1
15	317001700001	display	1

15. Maintenance guideline

Important information

Maintenance shall be subject to time or kilometers, whichever earlier.

Warning!

- Please carry out suitable maintenance work on the vehicle.
- The warranty can only be granted if the vehicle has been maintained according to this plan

Caution

The vehicle must be continuously checked for rust. The owner is personally responsible for rust prevention

The inspection frequency must be observed, otherwise the warranty will be invalid.		1st 185 Miles	2nd 620 Miles	Every 1000 KM		
component	activity	(300KM) or 3 Months	(1000KM) or 6 Months	or 12 Months	Every 3000KM	Every 2 years
display switch	Check	Check	Check			
electric system	Check	Check	Check	Check		
battery	Check	Check	Check	Check		
front-wheel bearing	Check and replace	Check	Check		Check	
rim	Check and replace	Check	Check	Check		
brake system	Check and replace	Check	Check		replace	
braking line	Check				Check	
brake disc	Check, clean and replace	Check	Check		clean	
braking fluid	Check and replace	Check	Check		Check	replace
brake pads	Check and replace	Check	Check	replace	replace	
chain, rear sprocket	Check, clean and replace	Check and clean	Check and clean		replace	
front shock absorber	Check and clean	Check	Check		Check and clean	
rear shock absorber	Check and clean	Check	Check		Check and clean	
steering bearing	Check	Check	Check		Check	
side stand	Check, clean and lubricate					
tight of all visible screws and nuts	Check	Check	Check		Check	

When the vehicle is handed over, the customer and the vehicle data must be completed.

Maintenance No.1	Maintenance No.2	Maintenance No.3
Current mileage:	Current mileage:	Current mileage:
Date:	Date:	Date:
Dealer stamp/signature	Dealer stamp/signature	Dealer stamp/signature
Maintenance No.4	Maintenance No.5	Maintenance No.6
Current mileage:	Current mileage:	Current mileage:
Date:	Date:	Date:
Dealer stamp/signature	Dealer stamp/signature	Dealer stamp/signature
Maintenance No.7	Maintenance No.8	Maintenance No.9
Current mileage:	Current mileage:	Current mileage:
Date:	Date:	Date:
Dealer stamp/signature	Dealer stamp/signature	Dealer stamp/signature
	·	
SERIAL NUMBER:	NAME OF THE CUSTOMER:	
MODEL:	SIGNATURE OF THE CUSTOMER:	



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