

USER'S MANUAL

T91 Electrical GOKART
User's Manual

KANDI

Dual Motors | EPS

T91

PREFACE

Thank you for choosing Kandi blade electric go kart.

- ① This user's manual will provide the driver with information about safe operation instructions, maintenance and service.
- ② Fully understanding this manual, complying with all the instructions and understanding the necessary knowledge in this manual will provide you with a happy, interesting and safe driving.
- ③ For the driving and maintenance questions about this blade electric go kart, please contact your dealer or manufacturer.

User Notice!

Minors under the age of 16 or seniors over the age of 60 are not allowed to drive this blade electric go kart! Not all people have the strength, appropriate age, skill and judgment to drive this blade electric go kart.

Blade electric go karts are not toys, and they are dangerous when driving. Blade electric go karts are different from other vehicles, such as motorcycles and cars. Even during everyday driving, cornering and driving over obstacles can result in a crash or rollover.

Read this user or operator manual!

- ① Owners and all drivers of blade electric go karts should carefully read this manual from beginning to end.
- ② No one is allowed to drive this blade electric go kart without reading and understanding the user's manual.
- ③ This manual is an integral part of the blade electric go kart. Please always carry it with you. When the go cart is sold, this manual shall be delivered together.



This manual emphasizes particularly important information. Please note the following: This is a warning sign, which means pay attention! Stay alert! It's about your safety.



WARNING!

To emphasize important safety information, words with a "WARNING" sign have a special definition: It indicates a potential hazard that could result in **SEVERE INJURY** or **DEATH** to the driver/bystander and the maintenance and inspection personnel of blade electric go kart.



CAUTION!

To emphasize important safety information, words with a "CAUTION" sign have a special definition: It indicates that special precautions must be taken to avoid damage to the blade electric go karts.

Attention:

To emphasize important safety information, words with a "ATTENTION" sign have a special definition: It indicates critical information to make maintenance easier or more clearly understood.



WARNING! or CAUTION

- The first part will identify potential hazards;
- The second part describes what will happen if the warning or caution is ignored;
- The third part describes how to avoid risks.

The product information collected and published in this manual is the latest at the time of publication. However, due to the continuous improvement of the product and other changes, there may be some inconsistencies between your blade electric go kart and this manual. We reserve the right to change the product at any time without notice, and have no obligation to make the same or similar changes to the vehicles previously manufactured or sold.

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USER
MANUAL

IMPORTANT SAFETY LABELS



1



2



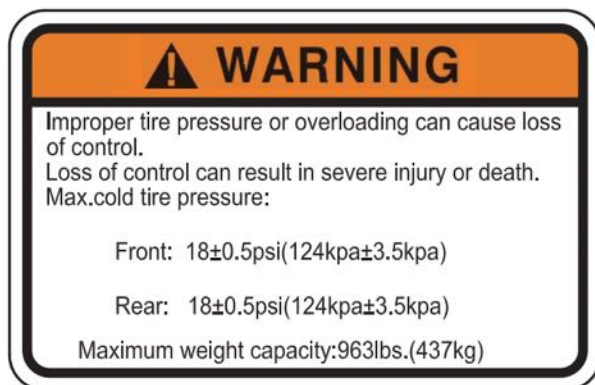
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10



WARNING

POTENTIAL HAZARD

Driving with improperly operating brakes.

WHAT CAN HAPPEN

You could lose braking ability, which could lead to an accident.

HOW TO AVOID THE HAZARD

Always check the brakes at the start of every ride. Do not operate the vehicle if you find any problem with the brakes. If a problem cannot be corrected by the adjustment procedures provided in this manual, have the vehicle inspected by an authorized dealer.

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WARNING

Never drive an electric Go Kart in water deeper than 8 inches. Do not drive fast through water.

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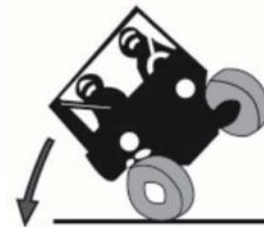


WARNING



- Passengers can be thrown off. This can cause serious injury or death.
- Never carry passengers in cargo box.

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WARNING

Rollover Hazard

This vehicle has been modified to change its off road performance.

Do not use this vehicle unless and until you know and understand all modifications. The modifications may change the way the vehicle handles, and improper or untrained use may result in severe injury or death. Modifications may include modified suspension and larger or more aggressive tires. If a lift kit is installed, wider tires, wheel spacers, or offset wheels are recommended.

- There may be an increase in the center of gravity.
- Braking distance/stopping distance may increase.
- Turning radius may decrease.
- The vehicle may become more likely to roll over.
- The driver may experience loss of control.

Be aware that rollover and handling risks increase when riding on uneven and unlevel terrain. In addition to the additional care required by the modifications, always follow the vehicle manufacturer's instructions for use and safety gear. Failure to wear recommended safety gear increases the danger of injury or death.

Never operate this vehicle under the age of 16, at excessive speed, on paved roads, or under the influence of drugs or alcohol. Never operate this vehicle with a passenger unless it is designed to carry a passenger. And inform any passenger of all modifications to the vehicle.

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SAFETY

1. Before starting the vehicle for the first time, you must read and understand the user's manual and relevant warning labels.
2. Do not modify this blade electric go kart in any way, which may make the car unsafe or violate the law.
3. Minors under the age of 16 are not allowed to drive this blade electric go kart.
4. The driver must wear motorcycle helmet with safety certification, goggles, gloves, long sleeve shirt and long pants, before driving this blade electric go kart.
5. This blade electric go kart is designed for one driver and one passenger, and it is not allowed to drive beyond the capacity.
6. Seat belts must be worn correctly, and ensure that the driver and the passenger fasten the seat belt before starting the blade electric go kart.
7. Do not drive this blade electric go kart on well-paved roads or public roads, which may cause the car to become unstable.
8. Pay attention to changes in terrain conditions when driving blade electric go kart. Drive slowly on unfamiliar terrain and be vigilant, otherwise accidents may occur.
9. Do not take drugs or alcohol before or during the operation of the blade electric go kart.
10. Please read the pre-check procedures in this manual carefully before driving.
11. Keep hands, arms, legs and feet inside the blade electric go kart at all times.
12. Do not drive a blade electric go kart in water deeper than 203mm (8 inches). Do not drive in fast-flowing water. Water can affect the braking performance of blade electric karts. After passing the water, check whether the braking performance is normal.

DESCRIPTION OF COMPONENTS FUNCTION



Induction key

When the induction key (1) is taken to the induction coil induction area (2), as shown in Figure (3), a "beep" sound is heard, indicating successful information induction confirmation.



One click start switch

After successful confirmation of the induction key, press the brake pedal, press the one button start switch, the entire vehicle is powered on, and the vehicle starts self checking. The self checking ends, and the central control screen displays "READY", indicating that the vehicle is in a drivable state. Press the brake pedal again, press the one button start switch, the entire vehicle is powered off, and the vehicle cannot move.

Attention: Ensure that the entire vehicle is powered off after the driver leaves.





Electronic shifter

When the entire vehicle is powered on, step on the brake pedal and rotate the gear knob at the same time, "D" represents forward gear, "R" represents reverse gear, "N" represents neutral. When parking, turn the gear knob to "N" position.



Light switch

When the entire vehicle is powered on and the light switch is in the  state, the front strip LED lamp will turn on. When the switch is in the  state, both the front and top strip LED lights of the vehicle light up. When the switch is in the middle position, both the front and top strip LED lights do not light up.

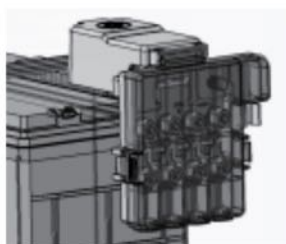


Winch switch

When the entire vehicle is powered on, press "IN", and the winch cable is retracted; Press "OUT" and the winch cable extends

Note:

Before the winch cable is extended, ensure that the winch clutch knob is in the "FREESPOOL" state; Before retracting the cable, make sure that the clutch knob is in the "ENGAGE" state.



Fuse box

The vehicle is equipped with two fuse boxes: one installed on the 12V battery and the other under the instrument panel in front of the passenger seat.

Fuse function and fuse specification on the storage battery: Fuse function and fuse specification under instrument panel in front of passenger seat.

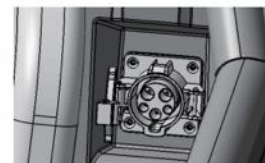
Elec winch	Power Light	EPS	DC-DC
100A	40A	40A	100A

Battery MCU	Display	OBD	T-BOX	Horn Light		Brake	EPS	Battery MCU	Winch
电池 电控	显示屏	OBD	T-BOX	喇叭 灯光		制动	EPS	电池 电控	绞盘
5A	5A	5A	10A	15A		10A	10A	10A	10A



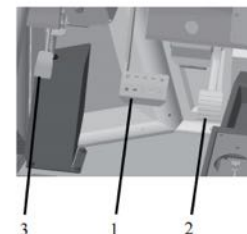
Note

When the fuse needs to be replaced, the same specification and model must be used.



Charging socket

The charging socket conforms to SAE-J1772 and is located at the left rear side of the driver's seat. When charging is required, pull the latch of the charging socket cover to expose the charging socket.



Brake pedal

Step down the brake pedal (1) can decelerate and stop the blade electric go kart.

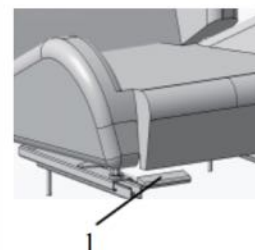
Attention: Check the braking status before driving.

Accelerator pedal

Step down the accelerator pedal (2) will increase the motor speed and promote the vehicle to move.

Parking brake pedal

Press the parking brake pedal (3) to the bottom with your left foot to activate the parking function. Use your left foot to forcefully step on the pedal and quickly lift it, and the pedal will then lift and release the parking status.



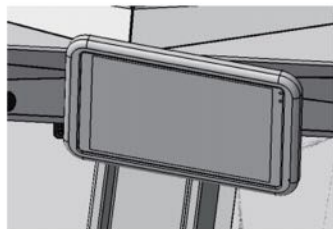
Seat adjustment

Both the driver seat and the passenger seat have the functions of forward and backward adjustment and backrest angle adjustment. The lock lever handle (1) for seat forward and backward adjustment is located under the seat. Just pull it up and the seat can move forward or backward. The angle adjuster (2) for backrest angle adjustment is located at the side of the seat. When adjusting the backrest angle, just pull the wrench of the adjuster.

Note:

Before driving a blade electric go kart, make sure the seat is in a proper position.





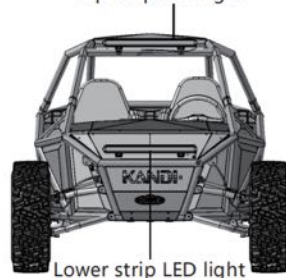
PAD

PAD is located in the front area of the instrument panel, and has the functions of displaying vehicle speed, mileage, battery SOC status, charging status, relevant fault information and fault codes.

Note:

See the following chapters for the display instructions of the PAD.

Top strip LED light



Lower strip LED light

Upper and lower strip LED lights

It contains 21 LEDs, and can adjust the high and low beam lights by toggling the light switch.

Low beam: the lower strip LED lights up;

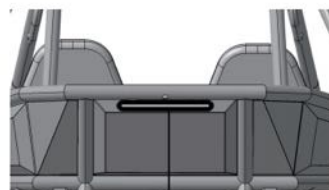
High beam: Both the upper and lower long LED lights light up.

Rear combination lamp

When the vehicle is in moving state, the outer circle of the rear combination light will turn red;

When the vehicle is in braking state, the outer ring of the rear combination light illuminates with a bright red light;

When reversing in 'R' gear, a white light illuminates in the middle of the rear combination light.



Rear combination lamp

PAD DISPLAY INSTRUCTIONS



Main interface (home page)

1. Front strip LED lamp

Turn on the front strip LED light to light up the icon ;

2. Front and top strip LED lights

When the front and top strip LED lights are turned on at the same time, the icon is lit ;

3. READY light

When the vehicle is in a driving state, light up READY lamp .



Gear display

1. When gear D has no signal, its display is the same as that of other gears;

2. When the gear D signal is valid, it will be highlighted and amplified; When N gear and R gear are valid, the effect shall refer to D gear;



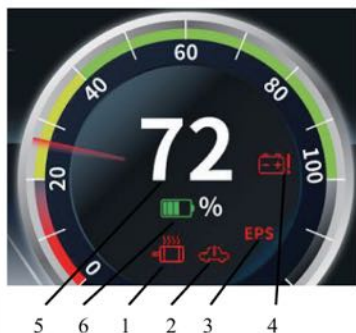
Left instrument panel display

1. Parking display






When the parking brake pedal is pressed, icon is displayed .

2. Vehicle speed display

3. According to the collected data, the vehicle speed (value) is displayed in real time, and the pointer indicates in real time. The maximum range of the instrument is 80mph .



Right instrument panel display

1. Display when the motor is overheated ;
2. Display in case of system fault ;
3. Display when EPS has fault ;
4. Display when the power battery is under voltage ;
5. According to the collected data, the SOC (value) is displayed in real time, and the pointer indicates in real time ;

6. Battery level and charging display



When the battery symbol is displayed in red, it indicates that the battery level is below 20%;



When the battery symbol is displayed in yellow, it indicates that the battery level is below 40%;



When the battery symbol is displayed in green, it indicates that the battery level is not less than 40%. When the battery displays red, yellow and green colors in cycle, it indicates that it is in a charging state.



Middle position display

12hour system display, real-time display of the current time.

Bottom position display

1. Remaining mileage display

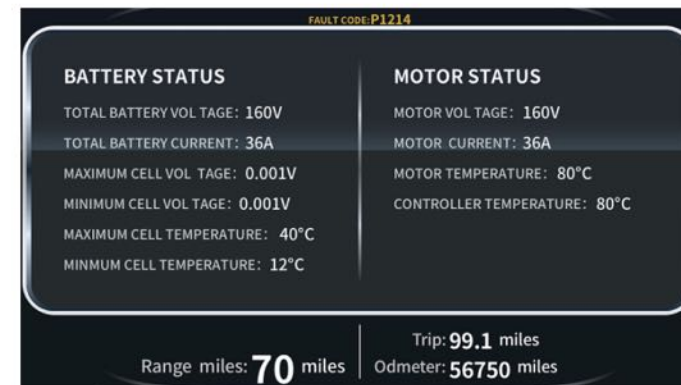
Display the remaining mileage of the vehicle in real time.

2. Display of subtotal mileage

Real time display of subtotal mileage.

3. Total mileage display

Real time display of total mileage.



1. Battery status

BATTERY STATUS

TOTAL BATTERY VOL TAGE: 160V
TOTAL BATTERY CURRENT: 36A
MAXIMUM CELL VOL TAGE: 0.001V
MINIMUM CELL VOL TAGE: 0.001V
MAXIMUM CELL TEMPERATURE: 40°C
MINMUM CELL TEMPERATURE: 12°C

Real time display of total battery voltage;
Real time display of total battery current;
Real time display of the maximum cell voltage;
Real time display of the minimum cell voltage;
Real time display of the maximum cell temperature;
Real time display of the minimum cell temperature;

2. Motor status

MOTOR STATUS

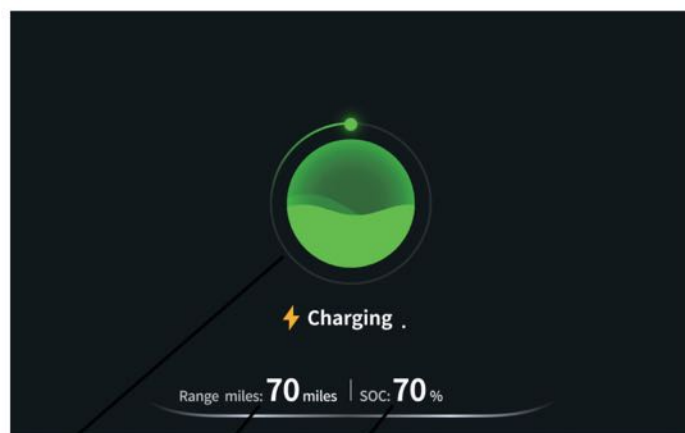
MOTOR VOL TAGE: 160V
MOTOR CURRENT: 36A
MOTOR TEMPERATURE: 80°C
CONTROLLER TEMPERATURE: 80°C

Real time display of motor bus voltage;
Real time display of motor bus current;
Real time display of motor temperature;
Real time display of controller temperature;

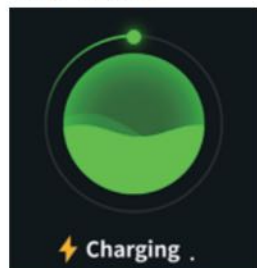
3. Fault code

FAULT CODE: P1214

Real time display of fault code;



1. 充电状态



Plug in the charging gun and it is currently charging, and it will automatically switch to the charging interface and display the charging status;

2. 剩余里程

Range miles: **70 miles**

Display the remaining range mileage of the vehicle.

3. SOC

SOC: **70 %**

Display the vehicle SOC status.

RUNNING IN



In order to give full play to the vehicle performance in the future, extend the service life, and enhance the reliability and economy of the blade electric go kart, during initial use, the vehicle operation shall follow the following instructions:

1. Within the first 500km, do not step on the accelerator pedal violently to start but run at an appropriate speed;
2. Within the first 300km, avoid emergency braking and step on the brake to the end (except in case of emergency);
3. Do not run at a fixed speed for a long time during driving. Change the speed appropriately to fully run in the moving parts.
4. The power battery cannot be deeply discharged. After the battery is discharged, please charge it in time.

Attention:

Before driving, please ensure that the parking pedal is released in place to avoid damaging the brake pads. The front and rear gearbox gear oil must be filled and replaced according to the requirements of this manual; When replacing the fuse, be sure to check whether the rated current of the new fuse is correct. It is forbidden to step on the accelerator pedal violently to avoid shortening the service life of the motor and controller.

CHECK BEFORE DRIVING

It is very important to check the condition of the blade electric go kart before driving.

The pre driving checklist will help you reduce the probability of injury or trouble caused by mechanical or electrical problems. Ensure that the vehicle is in good working condition before driving.

Warning!

- It may be dangerous if your blade electric go kart is not inspected and maintained.
- Failure to follow the pre driving inspection procedure may cause the blade electric go kart to lose control, resulting in accident or damage to the vehicle.
- Be sure to check and confirm before driving.

Warning!

- It is dangerous to carry more than one passenger on this blade electric go kart;
- When carrying more than one passenger, the vehicle may lose control and cause severe injury or passenger death;
- This blade electric go kart is specially designed for one operator and one passenger. Carrying more than one passenger is strictly forbidden.

Checklist

Check item	Inspection focus
Steering wheel	<ul style="list-style-type: none"> •Smooth rotation •No stagnation or looseness
Tire	<ul style="list-style-type: none"> •Proper tire pressure •Proper tread depth •The rubber has no cracks
Braking	<ul style="list-style-type: none"> •Correct liquid level •No leakage of hydraulic pipeline. •No abnormal wear of brake pads. •The brake pedal can return to normal position after stepped down.
Accelerator	<ul style="list-style-type: none"> •Accelerator pedal can return to normal position after stepped down.
One click start switch	<ul style="list-style-type: none"> •Can start the go kart normally.
Shifter	<ul style="list-style-type: none"> •Flexible gear switch
Lighting	<ul style="list-style-type: none"> •Front and top strip LED lights and brake lights can work normally.
PAD	<ul style="list-style-type: none"> •Display normally after starting the vehicle
Power	<ul style="list-style-type: none"> •After starting the vehicle, sufficient SOC power is displayed on the central control panel.
Ordinary situation	<ul style="list-style-type: none"> •Tighten all bolts and nuts

Warning!

- Driving a blade electric go kart on a paved road can be dangerous.
- Operation on paved ground, including parking lots, sidewalks, driveways and streets, may lead to loss of control and severe personal injury or death. The tire of this blade electric go kart is designed for off-road use only, and the paved road will seriously affect the handling and control.
- Avoid driving a blade electric go kart on the road. If you have to cross the paved road, please drive slowly and do not turn or brake suddenly.

Warning!

- It is dangerous to drive this blade electric go kart on any public road or highway.
- If you drive on a public road or highway, you may collide with another vehicle, resulting in severe injury or death.
- Do not drive on highways or expressways.

Warning!

- It may be dangerous to operate a blade electric go kart in an irresponsible manner, including jumping or other stunts.
- Jumping or other stunts may cause the blade electric go kart to lose control, resulting in severe injury or death.
- Don't try special effects, such as jumping.

Warning!

- Driving a blade electric go kart on the mountains can be dangerous.
- When driving a blade electric go kart on a mountain, vehicle overturns may happen when traversing, driving up the mountain or driving down the mountain. Any accident on the mountain can result in severe injury or death.
- Do not drive blade electric go karts on steep mountains.

HELMETS, EYE PROTECTIVE GEAR AND PROTECTIVE CLOTHING

When driving a blade electric go kart, you must wear a helmet, good eye protective gear and protective clothing correctly.

A motorcycle helmet with safety certification must be worn. The helmet helps prevent serious head injury in the event of an accident. Helmet is the most important safety equipment that you must wear. Consult your motorcycle dealer for the appropriate helmet size and model.

Always wear eye protective gear, such as a face shield or goggles, when driving a blade electric go kart. When driving a blade electric go kart, any of the following may hit the eyes: dust, sticks, rocks, debris, bugs, etc. Therefore, it is necessary to properly wear eye protective gear while driving.

Wear protective clothing: long-sleeved shirt, gloves, trousers, ankle boots. When driving a blade electric kart, the driver's body is exposed, and wearing protective clothing can help protect the operator from injury.

Warning!

- It is dangerous to drive a blade electric go kart without wearing a helmet, eye protective gear and protective clothing correctly.
- Driving a blade electric go kart without a helmet will increase the probability of severe head injury or death in an accident.
- Driving a blade electric go kart without eye protective gear devices (such as face shield or goggles) may cause severe injury in the event of an accident.
- Driving a blade electric go kart without protective clothing (ankle boots, trousers, gloves, long sleeved shirt) may cause severe injury to the driver.
- When driving a blade electric go kart, you must wear a helmet, goggles, long sleeved shirt, ankle boots and gloves.

SEAT BELT

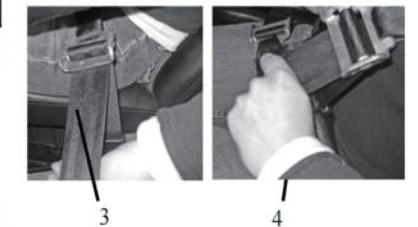
Warning!

- Driving or riding a blade electric go kart without wearing a seat belt can be dangerous.
- It is dangerous for the driver and passenger to drive or ride a blade electric go kart without a seat belt, which increases the probability of injury or death in the event of an accident.
- It is prohibited to drive or ride a blade electric go kart without wearing a seat belt.

Drivers and passengers are prohibited from starting up the blade electric go kart without wearing seat belts.

To connect the seat belt strap, sit correctly on the seat and pass your right and left arms through the shoulder strap (1) on the corresponding side. After the shoulder belt is in place, buckle the belt (2) and tighten it by pulling the loose end (3) away from the buckle. Continue to pull the loose end (4) to the bottom of the blade electric go kart to tighten the shoulder strap.

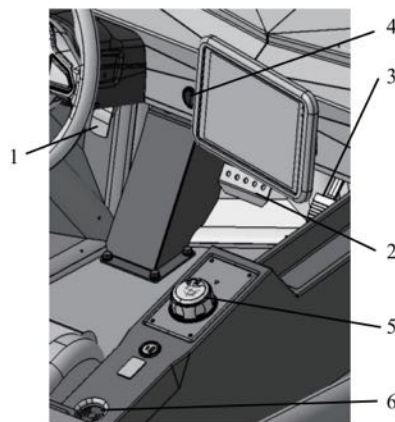
If there is no passenger in the passenger seat, make sure the passenger seat belt is safely locked (5).



DRIVING A BLADE ELECTRIC GO KART

Startup

1. Check and confirm that the gear shift knob (5) is in neutral position (middle position of "N" gear), and the parking brake pedal (1) is in the parking state;
2. Sit in the driver's seat, release the parking brake pedal (1), place the inductive key card (7) on the inductive label (6) to sense and hear a "beep" sound;
3. After pressing and holding the brake pedal (2), press the one button start switch (4) to power on the vehicle. Note: When the vehicle is powered off, it is also necessary to press and hold the brake pedal (2) before pressing the one button start switch (4).
4. Wait for the "READY" indicator light on the central control screen to light up.



Warning!

- It is dangerous to drive blade electric go kart at excessive speed;
- Drive over the speed limit of a blade electric kart will increase the probability of losing control, which may result in severe injury or death;
- Always drive at a speed appropriate to the terrain, operating conditions, driver skill and driver experience, and be sure to understand the terrain before driving.

Start driving

1. After the vehicle starts up, press the brake pedal (2), turn the gear shift knob (5) to the "D" forward position, and release the brake pedal (2).
2. Step down the accelerator pedal (3) until the blade electric go kart moves.
3. Drive the blade electric go kart slowly until you are fully familiar with the handling characteristics of the vehicle.

Driving up the mountain

1. Before attempting a climb, stop and assess the mountain situation. Make sure the mountain is not too steep and the terrain is not loose and there are no obstacles.
2. During the climbing process, approach the mountain top at a stable speed.
3. After the front wheel has crossed the mountain top, you can release the accelerator pedal properly and slow down the speed to prevent the whole vehicle from flying up and landing heavily, causing damage to the driver and the vehicle.

Maximum safe climbing slope: 30%

If it is determined that the blade electric go kart cannot reach the top of the mountain:

1. Do not try to turn around and travel down the mountain during operation, which may cause the blade electric go kart to roll down the mountain.
2. Step on the brake to control the speed, and slowly reverse the blade electric go kart down the hill.

Or:

1. Step on the brake to prevent the blade electric go kart from rolling backwards.
2. If you feel unable to park the go kart safely on the mountain, please step on the parking pedal while stepping on the brake.
3. Release the brake pedal and carefully get off the blade electric go kart when the vehicle is parked reliably on the slope.
4. Check the surrounding environment, and leave the ramp site quickly when safety is ensured, and seek help.

Driving down the mountain

When driving a blade electric go kart down the mountain, follow the instructions below.

1. Before attempting to drive down the mountain, stop and assess your surroundings to make sure the mountain is not too steep, the terrain is not loose or slippery, and there are no obstructions.
2. Control the speed when driving down the mountain, and do not drive too quickly, otherwise, stepping on the brakes when the speed is too fast will easily cause the blade electric kart to lose control and overturn.

Warning!

- Driving a blade electric go kart through steep or loose hillsides is dangerous;
- Crossing steep or loose hillsides may cause the blade electric go kart to lose control or overturn, causing damage to personnel and vehicles;
- Do not drive the vehicle crossing steep or loose slopes, and do not drive climbing slopes over 30%; Before driving up a steep slope, you must practise and train on a small slope.

Slip or slide

In some cases, you may slip or slide even if you do not step on the brake pedal. Regain control by following the driving techniques listed below.

When the front wheels start to slip or slide:

To restore traction, release the accelerator pedal, do not step on the brake pedal.

When the rear wheels start to slip or slide:

In order to restore traction, release the accelerator pedal and brake pedal until the control of the blade electric go kart is realized and the go kart turns into a sideslip.

Driving cross waters

Driving over water is dangerous, especially when the vehicle moves too fast. Make sure that the water you are driving cross is shallow and the depth is no more than 203mm (8 inches).

Before crossing any water area, you should check the terrain to ensure the safety of the water area. Do not try to enter if you don't know the terrain or water area. Please pay attention to protecting the environment and don't enter protected waters such as rivers.

If the blade electric go kart is used in muddy, wet or sandy environment, the brakes need to be checked, cleaned and replaced frequently. Check the brake of blade electric go-kart regularly, and clean or replace it according to the maintenance requirements.

Warning!

- It is dangerous to brake hard on slippery road.
- Stepping on the brake hard on a slippery road will cause the wheels to lock, and the blade electric go kart will lose control, overturn or slide into some objects, which may cause severe injury or death.
- Lightly step the brake on slippery road.

Warning!

- Slipping or sliding blade electric go karts are dangerous;
- Slipping or sliding may cause the blade electric go kart to slide into some objects or suddenly turn over, which may cause severe injury or death;
- Avoid slipping or sliding. Make sure the tires are under control when driving.

Warning!

- When driving an electric go kart, fail to release the parking brake is dangerous.
- During operation, when the parking brake is enabled, the wheels may lock and the electric go kart may lose control. This may lead to serious injury or death.
- Only when the use the electric go kart stops completely, can the driver use the parking brake pedal.

Warning!

- It is dangerous to drive a blade electric go kart in in waters where water speed is too fast or deep water; Deep water or fast flowing water may cause the all terrain vehicle to lose traction, cause the vehicle to lose control, and cause severe injury or death.
- Do not drive a blade electric go kart in water more than 203mm (8 inches) deep. Do not drive a blade electric go kart in fast flowing water.
- The braking force may be weakened after water passing, so the braking performance should be checked in time. On the premise of safety, the brake can be dried out from friction by braking several times.

Warning!

- Driving a blade electric go kart with wet or frozen brakes can be dangerous.
- Wet or frozen brakes will increase the braking distance of the vehicle, which may cause loss of control, severe injury or death.
- Check the brakes according to the procedures in this manual before each driving.

Warning!

- Before starting the blade electric go kart in cold weather, make sure that the wheels can move freely.

Brake check

After starting the vehicle, drive at a slow speed (walking speed), use the brakes on flat ground, and check the braking ability of blade electric go kart. Make sure the front and rear brakes work properly. If the front, rear or both brakes fail, move the blade electric go kart to a warm place to thaw. After thawing, re-check whether it can work normally. If it still can't work normally, please take the blade electric go kart to the designated maintenance center for maintenance. Never try to drive a blade electric go kart whose brakes don't work properly.

Preventive maintenance in cold weather is very important. When used in cold weather, snow, mud, water or ice may freeze the brake pedal and accelerator pedal mechanism of blade electric go kart. You can brake several times to ensure that the brake disc and friction plate are kept dry. A protective cover can be used to cover the blade electric go kart to prevent snow accumulation.

Driving in cold weather

Check the following items before driving:

1. The brake pedal, accelerator pedal and parking pedal should be checked before driving in cold weather. Ice and snow may cause them to freeze. Check the connection mechanism of the brake pedal, accelerator pedal, and parking pedal to ensure they are working properly. If the mechanism is frozen, please move the blade electric go kart to a warm area until they are thawed and can work normally.

2. Tire freezing

Check whether the tires of blade electric go karts are frozen on the ground. If they are frozen, inject warm water around the tires to thaw.

Loading guide

The weight of the driver, passengers and cargo shall not exceed the maximum load capacity of the blade electric go kart. The maximum load capacity of the blade electric go kart shall be subject to the actual model (see the technical parameter sheet for details).

The maximum load capacity of the cargo box is 100kg (220lb). Ensure that the loaded goods are well secured and reliable, and loose goods may become dangerous goods. The weight of the goods shall be evenly distributed to a lower position to avoid adverse effects caused by the high center of gravity.

Ensure that carrying goods / accessories does not interfere with any control of the blade electric go kart.

Do not load heavy or overweight goods.

Slow down when carrying goods. Goods will have an adverse impact on high-speed driving.

When loading goods, enough braking distance shall be maintained. The greater the weight of the blade electric go kart is, the longer the braking distance will be.

After sales parts

When purchasing accessories, please purchase genuine accessories from official channels. Because we cannot guarantee the quality, safety and applicability of accessories in the market. Purchasing of improper parts may cause abnormal operation of the blade electric go kart, resulting in vehicle damage and personal injury. If you have any questions, please contact your local dealer.

Warning!

- It is dangerous to drive any electric go kart that has been modified or added with accessories.
- Modifying the electric go kart, including adding accessories, may have a negative impact on the handling of the electric go kart, thus causing severe injury or death.
- Never modify blade electric go karts.
- Please follow the relevant instructions in the user's manual/service manual, and only use genuine accessories.

MAINTENANCE

Warning!

- If the blade electric go kart is not maintained, it is dangerous;
- If the blade electric go kart is not properly maintained, it may lead to accidents;
- Always implement the maintenance recommendations of blade electric go karts listed in this manual.

Warning!

- If the blade electric go kart is not maintained, the front and rear axles and components of the blade electric go kart may be damaged;
- Always maintain the blade electric go kart according to the maintenance procedures listed in this manual;
- If you drive in a wet, muddy or dusty environment, the maintenance work needs to be carried out more frequently.

Warning!

- Failure to use original parts may damage the blade electric go kart;
- The parts with poor quality will lead to the failure of the blade electric go kart and reduce the service life of the blade electric go kart;
- Do not use components that are incompatible with the original assembly.

Your blade electric go kart can be maintained by an after-sales dealer or a designated repair shop.

Please carry out maintenance according to the maintenance procedures and schedule listed in this manual, which is very important to the safety of drivers and passengers and the service life of blade electric go karts. When it is used under harsh conditions, such as wet, muddy and dusty environment, it should be maintained more frequently.

Maintenance Table

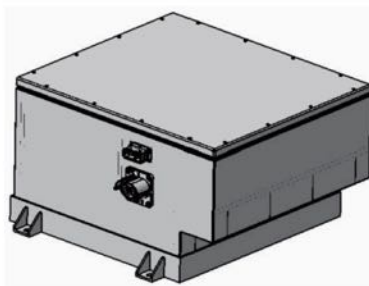
Note: I = inspection and cleaning, adjustment; if replacement or lubrication is necessary, R= replace, T = tighten.

Maintenance of power battery

The power battery used in this model consists of 2 boxes of lithium battery packs connected in series.

1.Charging time: about 14 hours (120V)

2.Maintain the power battery (fully charged) at least once a month!



Item	The first month	Every 3 months	Every 6 months	/	/
	First 1000km	Every 3000km	Every 6000km		
Gearbox oil	I	I	R		
Brake	I	I	-		
Braking pipe	Check the brake fluid level before driving each time. If it is too low, check whether the brake pads are worn and whether the brake pipes are leaking. Replace the brake fluid every 2 years or 20000km.				
Brake fluid	I	I	-		
Parking brake	I	I	-		
Tire	I	I	-		
Steering wheel	I	I	-		
Front shock absorber	I	I	-		
Rear shock absorber	I	I	-		
Auxiliary battery	I	I	-		
Power battery	I	I	-		
	Check the electrolyte level of the auxiliary battery once a month. Fully charge the power battery once a month.				
Chassis nuts and bolts	T	I	T		

Charging method and precautions

1. Open the cover plate of the charging port, align the direction, and connect the plug of the power cord with the charging socket.

2. Connect the plug at the other end of the power cord to the 120V household power supply.

3. When the charging gun is working, the charging indicator on the PAD will light up. After the battery is fully charged, the charging gun will stop working and the charging indicator will go out.

4. After charging, unplug the plug connected to the 120V household power supply. Then unplug the plug connected with the charging socket on the car. Push the charging port cover back to the original position.



Safety Specification for charging battery pack by charging gun

1. The charging standard power supply voltage is 120V. The charging socket shall be installed by a professional electrician. If it is installed outdoors, please make sure that the charging line and charging gun are moisture-proof and waterproof to avoid power leakage.

2. Please use a dedicated line to charge the vehicle, that is, a charging dedicated line (similar to the dedicated line for household air conditioning) is led out from the standard household or unit power socket. It is recommended to use a copper core wire with a wire diameter of 4 mm² or more.

4. The three hole socket with rated current $\geq 16A$ shall be selected and reliably grounded. The power line of the charging socket must be installed with a corresponding type of circuit breaker (air switch) with leakage protection function to ensure charging safety. When charging the vehicle, please do not use other high-power electrical equipment on the same line.

4. The charging time of 100 km electric energy of vehicle power battery is about 14 hours (120V). The charging completion time of the power battery changes due to the charging power, remaining power, vehicle service time, ambient temperature and other conditions. After the battery is fully charged, the vehicle will automatically stop charging, and the charging indicator of the power battery on the instrument will go out.

5. The charging location shall be a place with fire-fighting facilities and good ventilation. At the same time, smoking or storage of power supply is forbidden at the charging place. It is forbidden to charge at a place where inflammables are stacked

6. Looseness of the charging plug, oxidation of the contact surface and other problems will cause the plug to become hot. If the plug is hot for too long, it will lead to short circuit or poor contact of the plug. If abnormal conditions are found at each connection point of the power line, it should be repaired or replaced in time to avoid poor contact and electric spark.

7. When charging, children are not allowed to play nearby.

8. It is forbidden to use this series of battery packs in series or in parallel with other models or types of battery packs. In case of any abnormal situation of the battery pack, the professional technician shall be notified in time for inspection. To avoid danger, it is forbidden to disassemble the lithium battery without authorization.

9. In case of any abnormal situation of the battery pack, the professional technician shall be notified in time for inspection. To avoid danger, it is forbidden to disassemble the lithium battery without authorization.

10. If there is smoke, smell or spark during charging, please immediately cut off the power supply and contact the local service station.

Storage battery installation and maintenance

Installation:

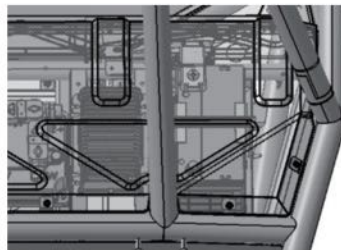
1. The storage battery is maintenance free and its specification is 12V-45AH.
2. The battery is located between the seat and the cargo box. Remove the electrical device cover, and you can see the position of the battery.
3. Connect the red wire of the harness to the positive (+) side of the battery, connect the black wire to the negative (-) side of the battery, and tighten the fixing bolts to ensure reliable connection.

Maintenance:

1. Check whether the storage battery is fixed properly on the vehicle and whether the shell surface is bruised;
2. Whether the battery cable is reliably connected and whether there is ash layer at the exhaust hole;
3. Check the charging condition and quality status through the electric eye on the battery. Green means qualified, black means power loss, and white means the battery is damaged and needs to be replaced.

Recharge:

1. If the vehicle is not used for a long time or the charging system has fault, when the load voltage of the storage battery is lower than 10V and the no-load voltage is lower than 12.4V, it must be recharged;
2. The red wire (clip) must be connected to the positive (+) side of the battery, and the black wire (clip) must be connected to the negative (-) side the battery.
3. The charging room shall be well ventilated and free of flames and inflammables;
4. Sufficient power standard: the electric eye (1) is green.



Warning!

- If the correct charging method is not implemented, battery charging may be dangerous;
- When charging the battery, the battery will emit explosive gas. Please keep away from sparks and open flames;
- Be sure to connect the charger to the battery before the charger is turned on, so as to prevent sparks when the battery clip is fixed to the battery;
- Before disconnecting the battery from the charger, be sure to unplug the charger to avoid sparks when removing the terminal clip from the battery.



1

Reducer gear oil

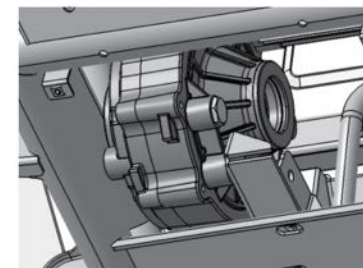
The blade electric go kart is delivered from the factory with a proper amount of qualified gear oil. Please determine the oil replacement period according to the maintenance plan.

The gear oil level can only be checked by draining oil and replacing with the correct oil type and quantity.

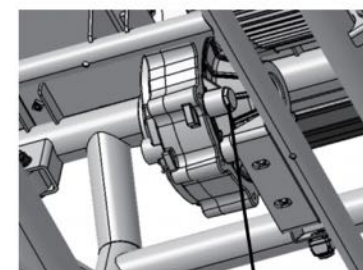
1. Find and remove the oil drain bolt (1) of the front reducer located at the front of the vehicle;
2. Find and remove the rear reducer oil drain bolt (2) located at the rear of the vehicle;
3. Drain the reducer gear oil in a suitable container, and then reinstall the oil drain bolt.

Note: Waste oil must be treated in a special waste oil recycling station to avoid environmental pollution.

4. Front reducer gear oil filling volume: 500ml, rear reducer gear oil filling volume: 500ml
5. Gear oil specification: 75W-90/GL-4.



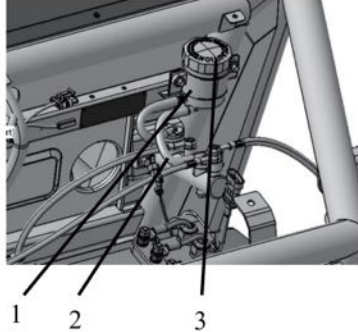
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2

Warning!

- It is dangerous if you fail to check the brakes before each driving;
- Before each driving, please check the brakes according to the "pre-driving checklist" to ensure that the procedures specified in the maintenance plan are strictly followed.



Brake

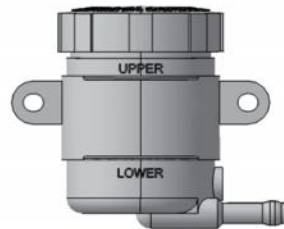
The blade electric go kart is equipped with front and rear hydraulic disc brakes.

Inspection of brake fluid

Check the brake fluid level (1) of the front and rear brakes. If the fluid level is below the mark, check the brake hose (2) for leaks or cracks.

If there is no leakage, please charge qualified brake fluid to the appropriate position in time and check whether the brake pads are excessively worn. If the brake pads are worn, replace them in time.

To add brake fluid, remove the cover (3) and use standard brake fluid. Please use standard brake fluid (DOT3 or DOT4).



Tire

Check the tires before each driving / riding, including the following items:

1. Check for cracks or air leaks.
2. Check the tread depth. If the pattern depth is less than 4 mm (0.16 in.), replace the tire.
3. Check the tire pressure. Incorrect tire pressure will affect handling, handling comfort, steering, tire life and traction. Always check the tire pressure before driving

Maximum cold tire pressure:

Front tire: $18 \pm 0.5\text{psi}$ ($124 \pm 3.5\text{Kpa}$)

Rear tire: $18 \pm 0.5\text{psi}$ ($124 \pm 3.5\text{Kpa}$)

Tire size:

Front tire: AT30×10R14

Rear tire: AT30×10R14



Minimum tread depth

4mm



Warning!

- Driving a blade electric go kart with worn tires is dangerous;
- Driving a blade electric go kart with worn tires will reduce the traction, resulting in accidents;
- Do not use tires with tread depth less than 4mm to drive a blade electric go kart.

Warning!

- It is dangerous to drive a blade electric go kart with improper tire size or air pressure.
- Driving a blade electric go kart with inappropriate tire size or air pressure may lead to loss of control and accidents.
- Do not drive a blade electric go kart with improper tire size or pressure.

Tire replacement

Be sure to replace the tires of the model and size listed in this manual.

When replacing tires, be sure to use the right tools. Using the wrong tool may damage the fixing nut and rim.

Tires should preferably be replaced by an approved service center. The service center has the correct equipment and expertise to replace the tire without damage.

The punctured / cut tire needs to be repaired in a professional repair shop or a designated service center. Replace the tire if it cannot be repaired.

Storage

If the blade electric go kart is idle for a long time, it needs proper storage and maintenance.

1. Thoroughly clean the blade electric go kart, and then coat plastic and painted parts with non abrasive wax car wax.

Note:

When cleaning, be careful not to directly wash the power battery, electrical devices, high and low voltage cables and their connectors with water.

2. Take out the storage battery and clean the battery case and terminal with soap and water. Store the battery in a cool and dark place. Recharge the battery at least once a month during storage.

3. Keep the tire pressure normal.

4. If possible, the blade electric go kart can be parked in the shed or garage to prevent dust and water. If the blade electric go kart must be stored outdoors, please cover the blade electric go kart with a good waterproof cover.

Resume use

1. Thoroughly clean the blade electric go kart.

Note:

When cleaning, be careful not to directly wash the power battery, electrical devices, high and low voltage cables and their connectors with water.

2. Replace the gearbox oil according to the requirements of this manual.

3. Charge the power battery according to the requirements of this manual.

4. Recharge the storage battery and install it according to the requirements of this manual.

5. Check the user's manual and follow the pre drive inspection procedure.

6. Start the vehicle according to the starting procedures in this manual.

Cleaning

1. Clean the mud and dirt of blade electric go-kart with water pipe under low water pressure.

2. Use sponge, soft rag or brush, and mild detergent or car soap to clean the blade electric go kart. Do not use any cleaning materials that may scratch the blade electric go kart.

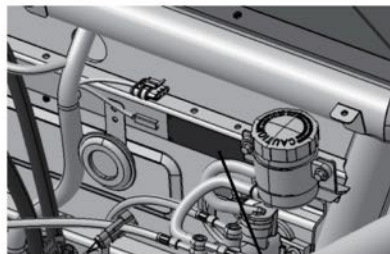
Note:

When cleaning, be careful not to directly wash the power battery, electrical devices, high and low voltage cables and their connectors with water..

TORQUE SPECIFICATION

Fastener thread specification	Torque(ft.lbs)	Torque(N·m)
M5 bolts and nuts	3.3 - 4.4	4.5 - 6
M6 bolts and nuts	5.9 - 8.8	8 - 12
M8 bolts and nuts	13.3 - 18.5	18 - 25
M10 bolts and nuts	27.3 - 43.5	37 - 59
M12 bolts and nuts	36.9 - 44.3	50-60
M4 screw	1.8 - 2.5	2.5-3.4
M5 screw	2.6 - 3.7	3.5 - 5
M12 wheel nut	76 ± 7	103 ± 10
M24 halfshaft nut	199 ± 7	270 ± 10

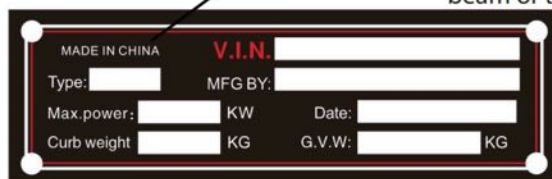
VEHICLE IDENTIFICATION NUMBER (VIN) AND NAMEPLATE POSITION



The vehicle identification number (VIN) is needed when you need parts, service center help or register your blade electric go kart.

The 17digit vehicle identification code is located on the vehicle's factory nameplate (1).

The vehicle nameplate (1) is located on the left side of the upper cross-beam of the cowl panel.



TECHNICAL PARAMETER

Item			T91
Size	Length	mm	3420
	Width	mm	1780
	Height	mm	1555
	Wheelbase	mm	2630
	Front track	mm	1536
	Rear track	mm	1536
	Minimum ground clearance	mm	310
Total mass	Total weight	kg	810
	Front weight	kg	370
	Rear weight	kg	440
Maximum total mass		kg	1090
Front wheel toe-in		mm	5±3(Left and right difference≤2)
Maximum vehicle speed		mph	50
Maximum climbing gradient		%	30
Maximum driving range (40km/h constant speed method)		km	≥80
Maximum system power		kw	40
Maximum torque of the system		N·m	230
Driving Type			4WD
Tire specification			AT30×10 R 14
Brake Type	Front		Disc
	Rear		Disc
Suspension type	Front		Double wishbone independent suspension
	Rear		Double wishbone independent suspension
Steering gear type			Electric Power Steering (EPS)