

Please read this manual carefully!  
It contains important safety information

## Electric Go Karts Operation Instruction



Ride accompanied with adult

Note: please read this handbook carefully before riding for first time!

Assembled Empennage

See Page 6

## **Electric go karts**

The manual describes the safety and maintenance information of product. Please read the relevant warnings carefully before using this product, or it may cause injury or death.

Please keep this manual in safe place. Any rider should read it. When the product is transferred. The manual should be handed over to new owner.

All the information, images and descriptions in this manual are made according to the latest product. There are probably some differences in the manual due to product improvement or changes of production method. Yongkang Dingchang Industry & Trade Co., Ltd. Reserves the right at any time to make changes to the product without notice and no obligation to make same or similar changes for the products manufactured or sold before.

This product can not run on public or main roads, because this is dangerous and violates local traffic regulations, be sure to wear a helmet, goggles and protective clothing while riding.

Jan, 2015

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## **The main technical parameters of electric go karts**

### **I. The main technical parameters of kart**

1. Net weight:73kg
2. gross weight:87kg
3. Carrying capacity:60kg
4. maximum designed carrying capacity:65kg
5. maximum designed total weight:133kg

### **II. the main parameters of motor:**

1. motor type: DC, brush motor
2. rated continuous output power:  $P=1000W$  ( $2800 \pm 7.5\%rpm$ )
3. Rated speed:  $2800 \pm 7.5\%rpm$
4. Rated voltage:48V
5. rated output torque:2.8(N.m)

### **III. the main parameters of controller**

1. Input rated voltage:48V
2. Input voltage range:36~60V
3. No-load input current:  $\leq 115MA$
4. Maximum output current of Motor: $30 \pm 1A$
5. Under voltage protection value:  $42 \pm 0.5V$
6. Maximum conduction value:  $\geq 95\%$  (Provided that controller output current is less than 2A)
7. Starting voltage of for rest:  $\geq 1.4V$
8. Protection voltage of for rest :  $\leq 1.8V$

### **IV. The main parameters of charger**

1. input :100-240VAC, frequency 50/60Hz, input current 1.8A Mars
2. output:48V DC 1.5A

### **V. The Main parameters of battery**

- 1.. Size: 181x76x167mm
2. Model plumbic acid power battery 12V12AH 4 batteries

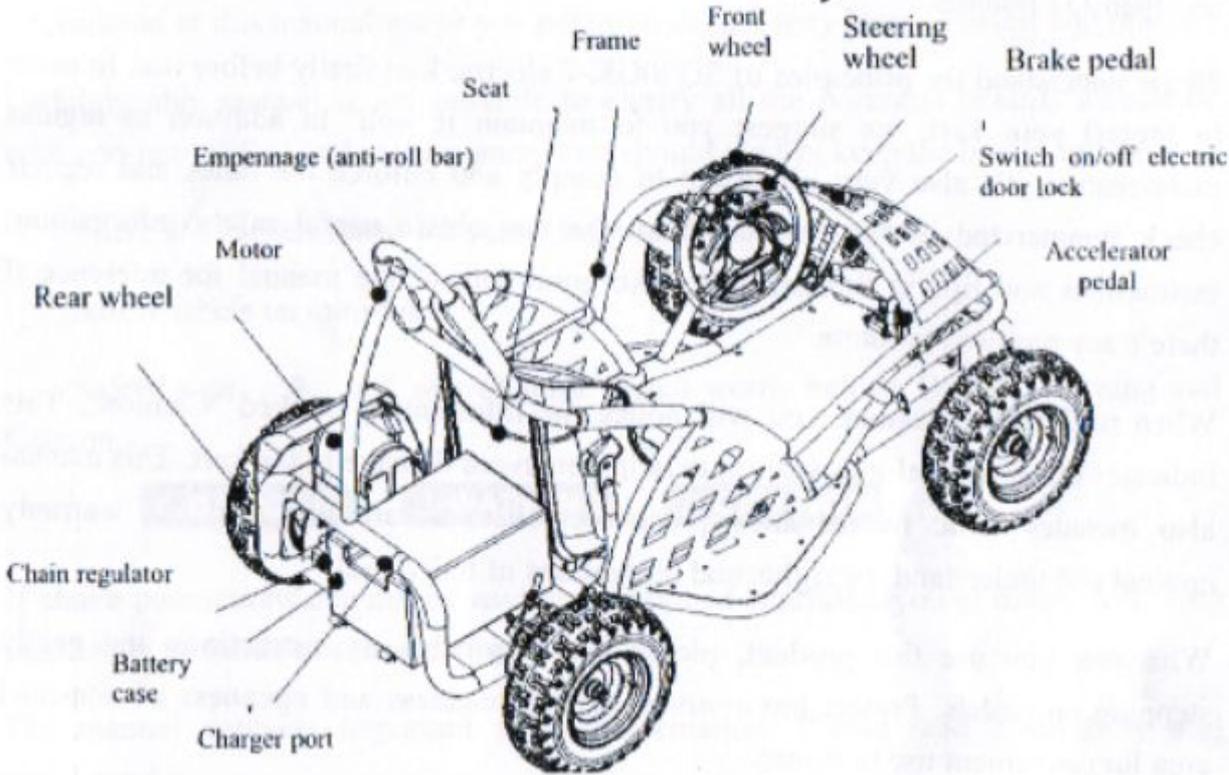


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**Name of each part**



## **Introduction**

Thank you for choosing our company electric go kart

As a recreational vehicle, our electric go kart is only for non-road and single ride. This mini electric bicycle is suitable for the young inexperienced riders with weight less than 132 pounds.

Please understand the principles of our electric go kart firstly before use. In order to protect your go kart, we suggest you to maintain it well, in addition to regular maintenance, it's also very important to comply and enforce the notes and regular check summarized in this manual, you also can obtain useful safety information, instructions and tips in this manual, take good care of manual for reference if there's any problem in future.

When reading the manual, you will notice the information marked "Caution". This indicates this is critical information to help you avoid damage to the kart, this manual also includes basic maintenance procedures. Please carefully read the warranty content and understand the rights and obligations of individual.

Whenever you use this product, please use reasonably as instructions and gently stepping on pedals. Protect environment, keep cleanness and openness of non-road area for convenient use in future.

## Important safety information

Your personal or potential safety in using this vehicle is our greatest concern. Safe operation is the most responsibility and can not be ignored.

Manual describes the safe operation procedures and warning signs in detail, the information in this manual warns you potential danger may harm yourself and others.

Certainly, this manual is not possible to clarify all the potential hazards associated with non-road riding and maintenance. You should always keep the best judgment.

There are various forms for safety information, including:

Safety labels on mini-bike

Safety sign  and one of three signal words below: danger, warning and

**Caution:**



If above instructions can not be read and complied carefully, you or others would be possible to be killed or seriously injured.

The manual contains important safety information. Please read it carefully and understand it.

## Important safety information

Safety first, any electric products has inherent risks, there's no exception for mini electric bikes, carefully read the following warnings to avoid hurting yourself, others and go kart

### Rule 1 DANGER

User guide contains valuable and important safety information to ensure your personal safety and avoid your bike damaged due to negligence, please read carefully and understand the relevant content. If you have any question

### Rule 2 DANGER

#### **Adult supervision**

Electric products are not toys. Children are forbidden to use this product alone. Children under age of 13 are not allowed to use . all children have to be accompanied by parents. 13-year-old age is just an estimated limit . riding is also affected by weight. height ,driving ability and other factors, parents should make decision if your child can ride or not after considering comprehensively his/her driving level.

### Rule 3 DANGER

#### **At one's own risk and common sense**

When using electric products, any accident is likely to cause serious injury even death.. avoid riding in front or back out of sight, not drive where there are other vehicles, avoid riding too fast. Speed should be kept in permitted range. Always comply with local traffic laws and regulations, prohibit riding within the banned range.

### Rule 4 DANGER

#### **Riding on public roads is prohibited.**

The kart is only used for non-highway. Riding on public roads or near motor vehicles is prohibited

## Rule 5



### **RIDE SMART**

Two or more people riding one bike is prohibited. Always keep your hands on Handlebars. Wearing headphones or using cell phone in riding is forbidden. Fingers and other parts of body should be away from the moving parts, such as drive chain and sprocket, which may cause injury. It's not allowed to jump off the bike on slope or near stairs, ride near pond or fountain. Related riding clothes should be kept wearing, including gloves, knee pad, anti-skid shoes, helmet and goggles specified by DOT. Keep clothes and shoelaces away from the moving parts of bike, like drive chain and sprocket.

Personal injury or death would be caused if above rules and warnings are not complied with. Use cautiously and pay attention to surrounding environment, practice techniques of safe riding.

If you have agreed your child to ride this kart, please keep following in mind:

- Helmet has to be worn by child.
- Child's safety is your responsibility and can be ignored.
- Do not let your child try to ride if he /she is not ready for it.
- You have to accompany your child when he/she is riding.
- Proper repair and maintenance are the key factors of safety ride.
- There are three speed for this kart, please adjust the proper speed for your child.



### **Caution:**

Electric go-cart performance would be affected if components which are not produced by us are adapted or added on the kart. It is strongly recommended not to remove original equipment or change the design or operation of vehicle.

## Initial setting

### Step 1. Electric go kart unpacking.

Following item are contained:

1. electric go kart
2. tool bags
3. manual
4. battery charger

If you have found all items above ,please go step 2.

### Step2 Assembly handlebars.

Electric go kart is fully assembled,which makes bike easy to ride. The only part which needs to be assembled manually is the anti-roll bar. All cables and control components have been connected to the bike,so it is not difficult to assembly anti-roll bar:

1. After unpacking, find anti-roll bar. Fix bolt in mounting hole with three ends.
2. Dis-assembly three bolts, position anti-roll bars behind the seats at the top of the frame.
3. Insert bolt up through the frame pole to the joint on the head of anti-roll bar, and tighten all three bolts.
4. Fasten all three bolts to 12-15.lbs.



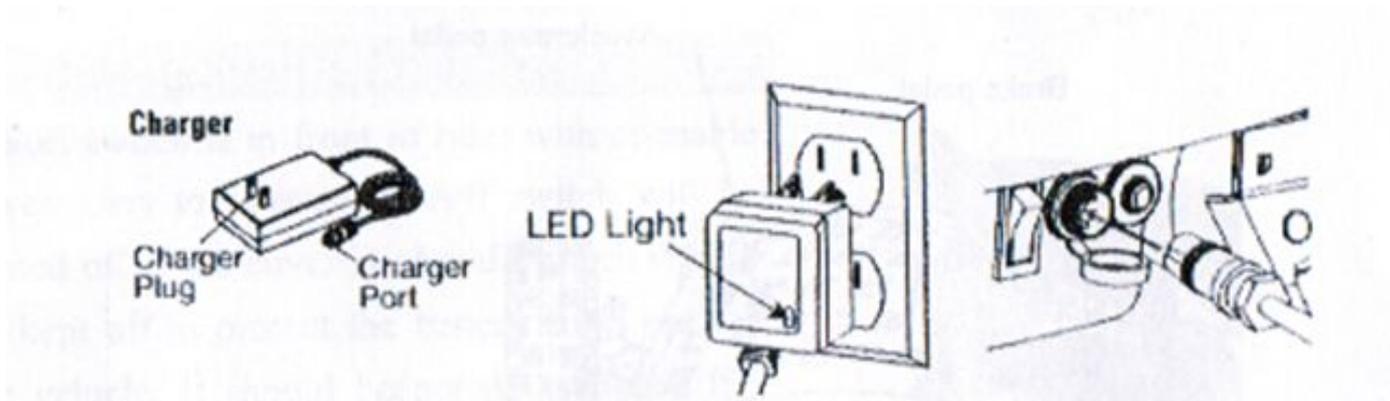
**DANGER**

The anti-roll bar has to be installed, which will affect the safety of rider.

**Step 3 Battery charging to ensure that the toggle switch on electric box is turned off.**

Charging port is located under the seat on the right side (as show in the picture on the right ), the position of the black protective cap. There is a circular connector with three contact points below protective cap.Note that there is a small rack at the bottom of connector.

There is a three-hole plug on round head of the charger line which exactly matches the connector slot.Insert the plug firmly into the connector.

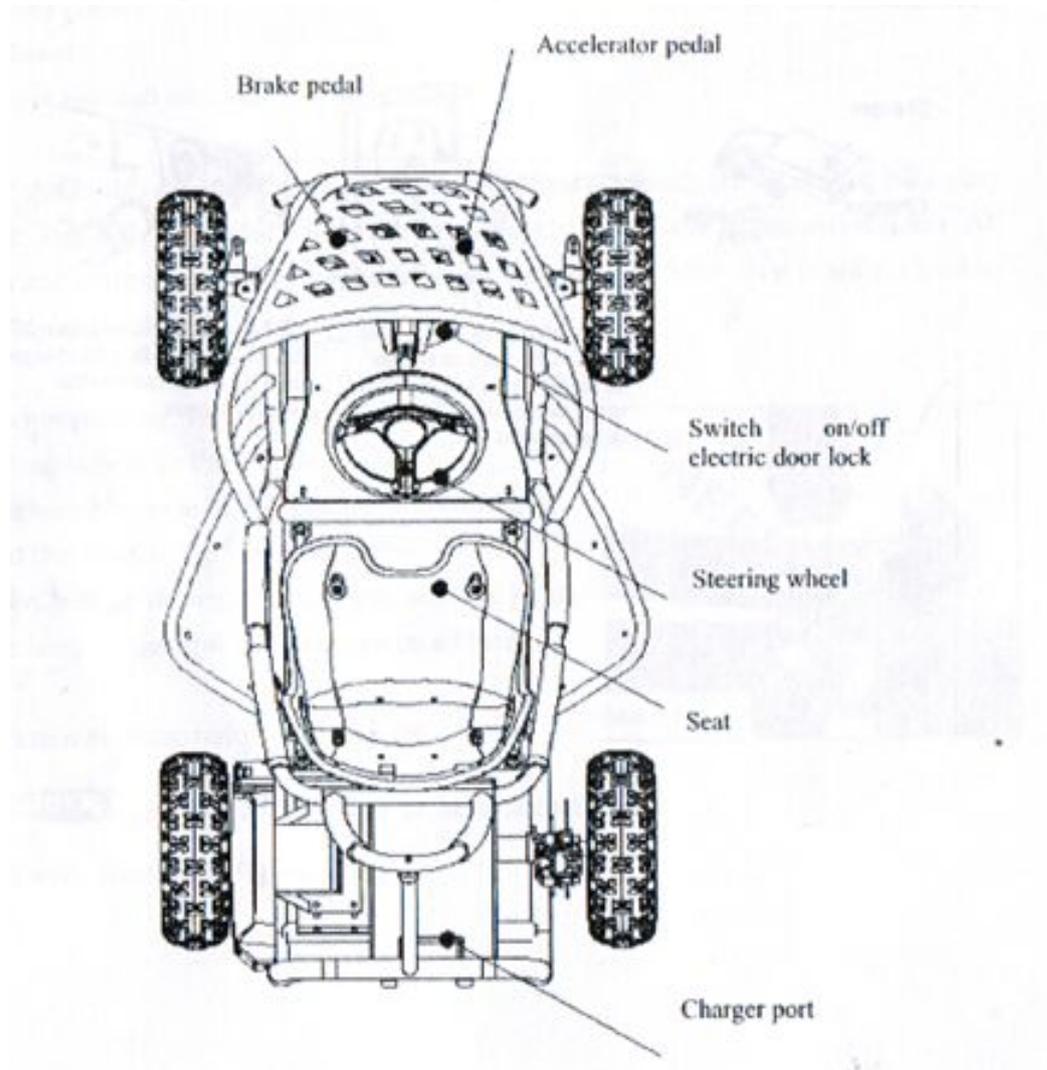


1.Plug the charger into a wall outlet.If the lights on charger do not light up,check the power to the outlet. If necessary, try a different outlet.

2.Turn go-cart power switch OFF before charging. Plug the charger into the charger port on the electric go-cart.

## Operation controls

Operate accelerator, brake and other controlling parts of this mini electric bike without looking. Please learn carefully the following diagram and be familiar with the function and position of each control parts.



## Operation control

Electric go kart can be operated as long as some key parts are under control. The locations and operation information of these key parts are as follow.

### 1. On/Off switch 2. Accelerator 3. Brake

#### On/Off Switch

On/off switch is in front of rider with openable cover, easy to operate. On/off switch will be turned off if the cover is closed. Switch should be kept off to protect the battery if no use for vehicle. It should be noted that when the switch is turned on, charging indicator will be on.



#### Accelerator

Accelerator provides power for the vehicle to go forward. As the twist grip mechanism is adopted, the power and speed are changeable.



**DANGER**

**Accelerator should be turned slowly to avoid sudden speed up when you rotate accelerator.**

#### Brake

Electric go kart is provide disc brake at rear wheel. The brake is operated manually, on the left handlebar. Carefully press the handlebar with increasing force until vehicle stops.



**DANGER**

**If brake too fast, the vehicle will slip and be out of control.**

## Before Riding

Once the kart is fully charged, disconnect the plug on the wall, put the charger in safe place.

### Checklist before ride

1. Have you read and fully understood all content of manual?
2. Have you noticed and understood the security information about the kart?
3. Do you know the location of operating components and how the kart is operated by those components?
4. Are you healthy both physically and mentally?
  - 1) Do you drink and take drugs?
  - 2) Do you wear the helmet specified by DOT?
  - 3) Do you wear goggles?
  - 4) Do you wear anti-skid shoes and protective clothes?

### Other suggestions about protective clothes

- 1) Gloves can protect your hands.
- 2) Anti-skid shoes can protect your ankles.
- 3) Wear pants with pads for knee and waist.
- 4) Wear sport shirts with elbow pads for knee and waist.



**Children are not allowed to ride without helmet, which can significantly reduce the probability and severity of head injuries. Motorcycle helmet specified by DOT is one of the most important parts in security measures. Choose a suitable and comfortable one and wear it. Distributor will help you choose the most suitable and high-quality helmet for you .**

## **Before Riding**

Please make sure that both you and kart are ready before riding. The following is checklist before ride. Every time before ride, be sure to check the following items.

### **Checklist before ride**

- 1. Check tire pressure, ensuring tire pressure at 15-20 psi.**
- 2. Check whether the rim is bent or damaged.**
- 3. Check the battery power.**
- 4. Check whether the drive chain needs lubrication or fixed?**
- 5. Check whether brake parts can work normally?**
- 6. Check if all screws, nuts and other parts are loose.**
- 7. Check if accelerator can be rotated freely and automatically positioned after release.**
- 8. Ensure steering wheel is flexible turned.**
- 9. For there are three speed for this kart, so choose the proper speed for yourself before riding, especially child.**



**Crash accidents or even serious injury or death can be caused if improper maintenance is made. Be sure to check the kart before ride, ensuring kart is in good condition to make full use of electric go kart.**

## Basic operation

The power of electric go-cart is 1000 watts with voltage 48V. The power can not be underestimated to prevent harm.

### Step One: Turn on the power

The kart is equipped with power lock switch, which is convenient to operate for owners. The switch can cut off all power. Turn on the switch, the power will be connected.



**In case of nobody on the kart, do not rotate the accelerator. Or the kart will initiatively move forward which may cause great danger.**

**Turn off the switch, the kart will slowly stop. It should be noted that the key should be removed from kart after turning off the switch.**

### Step Two:adjust speed

The kart have three speed , and can be adjusted by three speed switch key in the left of the steering wheel. Please choose the proper speed by yourself , and it is better to start with the lowest speed.

### Step Three :Backwards and Forward

Choose the direction of kart by a steering switch ,which next to the three speed switch . F means forwards. R is Reverse. N is Neutral.

### Step Four:Accelerator Slowly

When the switch has been turned on and there's a person on kart, keep hands on steering wheel and feed on brakes and accelerator,slowly step accelerator, you'll feel the kart begins to move forward. After the kart get power, then slowly speed up .

### Step Five :Braking

The kart is equipped with disc braked at rear wheel. To use it you must press handlebar gently until it works. Be careful in using the brakes because the kart will slip or be out of control if brake too quickly.

## **Basic operation**

### **Step four: stop**

It's best to park kart on a smooth and plane ground to prevent damage caused by accidentally overturned. Turn off switch and the cover. And if you do not to drive the kart in recent time ,please pull off the battery connect to protect the battery.

**Note:** pay attention to protect the kart avoiding the damage by weather factors. Although electric system is covered, but it may not be waterproof. So be sure to pay attention to rain damage caused by weather.

If the kart is not properly kept, our company will not provide warranty service.

## Repair and maintenance

As electric bicycles, maintenance cost of the kart is relatively low. However, proper maintenance keeps the kart in good safety performance, the following are the parts which need maintenance periodically.

Not exposed to the rain and snow.



it is extremely important that the kart should always be kept indoor, not exposed to the rain and snow. Electric system is not sealed. Water can cause damage to the power system.

The kart which was wet is not covered by warranty.

### **Tension of drive chain**

The drive chain transfers the power from motor to rear wheels, in order to ensure the normal work, it must be lubricated and tensioned at all times.

Check the tension of the drive chain by vertical movement of half distance between sprockets, the vertical slack of more than 1/2 inch is not allowed between drive chains. The drive chain is likely to fall if slack in riding.

**To adjust the tension of drive chain, below steps should be followed:**

1. Ensure the kart parks on smooth ground with a single support.
2. Loosen the spindle nut on both side of rear wheel with a wrench of 15mm.
3. After spindle nut loosened, rotate the tensioner bolt clockwise beside sprocket with a wrench of 10mm. and then repeat the action to the tensioner bolt on the other side of sprocket.
4. Check the tension of drive chain



## Repair and maintenance

### **Tension of drive chain**

Check if the tension reaches ideal level. If not, repeat steps 3 and 4 until requirement has been met.

5. Tighten axle bolt to 15 foot-pounds.

Note: To loosen the drive chain tension , follow the above steps, except this step that loose the tensioner bolt clockwise .

### **Lubrication of drive chain**

The drive chain of the vehicle should be often lubricated to prevent excessive wear. Below steps should be followed:

1. Park the kart on smooth ground.
2. rear wheel 1-2 inches off the ground.
3. when turning the rear wheels , wipe off the dust from chain with clean colth.
4. Turn rear wheel again, spray lubricant to all chains and ensure all chains are covered. You can use any spray lubricant, household oil such as 3-in-1 oil or specialized lubricant for bicycle chain, But WD-40 lubricant is not recommended, because it will dilute and remove the lubricating oil on the chains.

### **Lubricating chains**

Note; The chains must be completely lubricated, but not too much, because it will absorb dust and grit and damage the chains.

## Repair and maintenance

If you feel the brake is soft, or step very hard to get the braking force, you can adjust the brakes.

Adjust the brakes to increase braking force:

1. Park the kart on flat ground, turn off the engine, find the brake master cylinder on the left side of seat on the frame.
2. Remove the cotter pin on the axle pin of brake master cylinder; take out the fork of pedal arm from the brake master cylinder arm.
3. Loosen the adjustment nut, rotate brake arm fork backward(anticlockwise)
4. Install fork arm to brake master cylinder, and insert the axle pin.
5. Test braking to see if it's properly adjusted, if brakes work smoothly, brake friction block does not touch the brake pads; otherwise it will lead to braking dragging and wear of brake friction block
6. If you still feel brake is soft, repeat step 2 to 5.
7. Once brake is properly adjusted, replace the cotter pin.



Note : Do not drive if brakes do not work properly. If you are unable to adjust and repair brakes, you may need to replace the brake friction block.

## Repair and maintenance

### **Check tire pressure**

It's very important to check tire pressure before Ride. Low tire pressure can result in that the Vehicle is not operated properly and out of control.

To check the tire pressure, gas bar must be placed inside each wheel rim and remove black plastic cover. Use tire pressure gauge to check , ensuring tire pressure is at least 15 pounds but not more than 20 pounds.

### **Remove battery**

The battery of the kart is removable and replaceable. The procedures below have to be followed if you want to remove the battery.

1. Open plastic battery box by removing the screws on battery box,
2. Unlock the rubber belt which fixes battery.
3. Remove the terminal by unplugging the cradle. Remove negative terminal first.

**WARNING:** Do not touch the negative cable connecting positive cable. This may cause a fire.

4. Disconnect wiring and terminals, then you can remove the battery. **WARNING:** lead-acid batteries are used in the kart and it must be handled carefully. Send used batteries to the place selling the batteries of electric vehicles. Batteries can not be handled as household waste, not incinerated, which may cause an explosion.

**WARNING:** if the battery leaks, do not touch it, because the leaking is corrosive, toxic and dangerous. If skin or eyes contact the battery, rinse with cold water for at least 15 minutes and immediately go to hospital for treatment.

**WARNING:** new and old batteries can not be mixed to use. Do not mix alkaline, standard or rechargeable batteries; use only the specialized batteries of our company.

## Guidance for failure handling

Problems	Possible reasons	Solutions
Kart can not ride	Battery is not fully charged or bad wiring connections	It should be charged 12 hours at least before first ride, and 8 hours at least for non-first use. Check all battery connection wiring Check fuse, change blown fuse according to page 16 and page 17 of this manual. Make sure the wall outlet works. The kart stops suddenly in traveling.
The kart stops suddenly in traveling	Fuse burn-out power switch damage	Keep motor off for 20 minutes, then change blown fuse according to page 15 and page 16 of this manual
Power shortage	Brake line tight battery not fully charged Tires not fully aerated. If battery can not be fully changed, it must be replaced.Uneven terrain Overloaded .	Adjust brake according to instructions on page 16 of this manual. Charge at least 8 hours Aerate tires according to instructions on page 17 of this manual. Drive on smooth road Rider's weight not exceeding 100 pounds One person only
Charger becomes hot when charging	Normal	None operation is needed. Charger will get some temperature in charging.
Kart can not be stopped	Brake can not be adjusted	Adjust brake according to instructions on page 16 of this manual
Kart squeaks in traveling	Chains need lubrication and adjustment	Lubricate the chains as maintenance section of manual

## Registration sheet

Name: \_\_\_\_\_ Age: \_\_\_\_\_

Address : \_\_\_\_\_

City(state): \_\_\_\_\_ post code: \_\_\_\_\_

Email: \_\_\_\_\_

Telephone number of home: \_\_\_\_\_

Telephone number of office: \_\_\_\_\_

Purchase date: \_\_\_\_\_ purchase place: \_\_\_\_\_

Identifying number of vehicle: \_\_\_\_\_

Gender: \_\_\_\_\_ occupation: \_\_\_\_\_

Is this your first time to buy our products? \_\_\_\_\_

Did you use similar products before? \_\_\_\_\_

How do you know our products ? \_\_\_\_\_