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FOREWORD

Congratulations on having this new kart.

We recommend that you read this owner's manual before you ride the kart. This manual contains the vehicle structure, operation instructions, safety information and some helpful suggestion. The manual has a special section concerning maintenance. To protect your investment, we strongly recommend you to keep your go-kart well maintained. In case of any problem on your Kart, please refer to the trouble-shooting section. We hope you enjoy riding of your vehicle, and we would appreciate feedback or comments from you.

Our company reserves all the right to revise and explain this manual, and we reserve the right to improve, without notice beforehand, the product after publishing this manual. Some pictures in this manual are sketch maps for reference. In case of any deviation from the material objects, please refer to the actual items.

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1. Performance, Technical Parameter and Structure of Go Kart

1.1 Performance and Specifications

| Model | GK1100-2 | Displace | ement | 1. 1L |
|-------------------|------------------------------------|------------------------|-------------|---|
| Length | 3250mm/128 in. | Bore×Stroke | | 65.5*78mm/2.6*3.1 in. |
| Width | 1900mm/75 in. | Compressio | n ratio | 9.0:1 |
| Height | 1500mm/59 in. | Rated p | ower | 15Kw/5200rpm / 20HP/5200rpm |
| Wheelbase | 2250mm/89 in. | Max. to | rque | 43.29N.m/2000r/min |
| Front wheel track | 1470mm/58 in. | Igniti | .on | CDI |
| Rear wheel track | 1620mm/64 in. | Lubrica | tion | Forced lubrication & Splash lubrication |
| Ground clearance | 220mm/8.7 in. | Star | t | Electronic |
| Max speed | ≤85km/h / 53mile/h | Gear sh | hift | 5+1 (REV) |
| Braking length | < 7m (30km/h) / < 23feet (18mie/h) | Gross weight | | 528kg/1164 lb |
| Climbing capacity | ≤35° | Construction | Front wheel | Rocker arm, independent suspension, |
| Net weight | 510kg/1124 lb | Suspension | Rear wheel | Oleo-pneumatic damping shock absorber |
| Loading capacity | 2Person or250kg/2Person or 551 lb | Pueles | Front wheel | Hydraulic disc brake, right foot |
| Fuel tankage | 20L | Dr ake | Rear wheel | control |
| Fuel type | RQ-93 (unleaded) | Τ | Front wheel | 25×8-12 |
| Engine oil type | SAE15W/40 SAE5W/30 | lyre | Rear wheel | 25×10-12 |
| Engine model | 4Cylinder, 4Stroke, Liquid Cooling | Т | Front wheel | 25 P.S.I. |
| Battery | 12V45Ah | Tyre pressure Rear whe | | 25 P.S.I. |
| Head light | 12V 55W | Rear light/Brake light | | 12V/10W/5W |
| Roof light | 12V 35W | Turn li | ght | 12V 10W |

1.2 Component location and structure



2. The use of Go Kart

2.1 Caution and Safety Note:

Read this owner's manual carefully and make sure you understand it completely before driving this kart.

People under age of eighteen are not allowed to drive this kart.

Please make sure to wear an approved motorcycle helmet and have the seat belt well fastened before driving the kart. Do not drive this kart at night. It's dangerous to drive on an unknown road. Keep a safe distance between your kart and other vehicles. Never risk drunken driving or drive the kart after taking medicine, which will endanger your driving and result in injury even death. Check fuel level before the kart is used. Never refuel the tank while the engine is hot or running. Spilled gasoline should be wiped off prior to starting the engine. Don't drive your kart indoors. Because exhaust contains a kind of tasteless, odorless and poisonous gas called carbon monoxide.

2.2 Instrument and control

- (1) Major control switches are located on the right side of the steering wheel.(Fig 4)
- (2) Light switch is located on the right side of steering wheel. Horn button is located on the right side of steering wheel (Fig 4)
- (3) Fuel tank

Fuel tank is located above the engine and close to the rear carrier of the kart. Turn the lid counterclockwise to open and then refuel. The tank capacity is 20L. (Fig 5)

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Fig 4



Fig 5

(4) Brake pedal (Fig 6)

Brake pedal is underneath the right side of steering wheel. It controls the front and rear brake discs, operated by right foot. When you release your foot from the brake pedal, it will automatically return to its normal position.
Brake pedal
Brake pedal
Accelerator pedal

Clutch pedal

Gear shift leaver

- (5) Clutch pedal (Fig 6)Clutch pedal is underneath the left side of steering wheel, and controlled by left foot.
- (6) Accelerator pedal (Fig 6)

Accelerator pedal is located to the right side of the brake pedal and controlled by right foot.

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- (7) Gear shifting (Fig 7)
- (8) The gear shift lever controls velocity of the kart (Fig 7)



Fig 6

Fig 7

- (9) Gear box: 5 forward shifts +1 reverse shift (Fig 8)
- (10) The seat back lock lever is underneath the seat, pull up the lever to adjust the seat, when satisfied, release the lever to lock the position.; seat location adjuster is in the inner side of the seat, pull up to adjust , when satisfied, release the lever to lock.
 (Fig 9, Fig 10)
- (11) Steering side rod

Front wheel alignment can be accomplished Steering by actual use of steering side rod. (The angle of inner obliquity is 1°, normally no need to adjust) (Fig 11)



Seat location adjuster



Fig 10

Steering side rod

Fig 9

Gear box

Seat back lock switch



Fig 11

2.3 Before riding

Please check all the following items before driving.

| Items | Purpose |
|----------|--|
| Steering | (1) Turning Smoothly (2) No obstacle (3) No clearance |
| Brake | (1) Travel length of pedal is proper (2) No slippery. |
| Tyre | (1) Proper pressure (3) No crack or cut. |
| Fuel | Keep enough fuel for intended driving distance |
| Light | Check all the lamps – headlights, tail lamps, stop lamps, turn lights etc. |
| Oil | Check if the oil is enough |
| Battery | Check the electrolyte lever, fill some if necessary |

2.4 Basic operation guide

Driving this Go Kart is the same as driving a car.

2.5 Grinding in

Proper grinding-in of a new kart is very important to prolong the life span of the vehicle and achieve its best performance. During your driving of the first 600 miles, limit the driving speed as suggested below to avoid early damage of parts due to high driving speed

| Gear steps | Max. speed |
|------------|------------|
| 1 | 6 miles/h |
| 2 | 12 miles/h |
| 3 | 21 miles/h |
| 4 | 34 miles/h |
| 5 | 40 miles/h |

2.6 Circuit diagram:



3. Go Kart Maintenance

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3.1 Engine maintenance

- (1) #93 or above unleaded gasoline is recommended.Note: using unleaded gasoline can extend the life of engine.
- (2) A. How to choose lubricating oil

User should choose proper type of engine oil according to the local temperature.

Use SF SAE15W/40 oil in environment temperature above -20 C

Use SF SAE5W/30 oil in environment temperature below -20 C

B. Oil Level: The level of engine oil should be between upper scale and lower scale.



C. Changing Oil: Unscrew the oil drain bolt to let out old oil ; screw down the bolt when all the old oil is let out before new oil is filled in. (Fig 13)

Oil drain bolt

Oil filling port

- D. Oil Filling: Oil should be filled through filling port. After oil filling, let the engine run in idle for 3-5minutes and then check the oil level; add enough if it's inadequate(Fig 14)
 - E. Gear oil 85W/90 API/GL-4 GL-5 are recommended for gearbox ; the amount required is 2 L; and the oil level should be between upper scale and 13



Upper scale Lower scale



lower scale.

- (3) Cooling liquid
 - A. Cooling system of the engine must be filled with adequate cooling liquid. The freezing point of the cooling liquid should be 9°F lower than the freezing point of the applied area.





Auxiliary tank

 B. After 5-minute running of the engine, stop it and wait for 15 minutes before you inspect the cooling water level. If it is still not enough, add more cooling water to the limit line.

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Fig 16

3.2 PERIODICAL MAINTENANCE

The maintenance intervals in the following table are based on average riding conditions. Unusual condition requires more frequent service.

| Time | Initial service | Monthly | Quarterly | Yearly |
|------------------------|-------------------|---------|-----------|--------|
| of service | (First week) | | | |
| Items | | | | |
| Tyre pressure/wear | Ι | Ι | | |
| Brake performance | Ι | Ι | | |
| Tightness of fasteners | Ι | Ι | | |
| Air cleaner | (C or R)/200miles | | | |
| Carburetor | Ι | А | | С |
| Spark plug | | | С, А | |

| Engine oil | | Ι | R | |
|-----------------------|--------------|------------|--------------------|-----------------|
| Gear box oil | | Ι | R | |
| Oil filter screen | | | С | |
| Chassis | | C, I | L | |
| Fuel switch/Fuel tank | | Ι | | С |
| Battery | | | Ι | |
| Valve clearance of | | | А | |
| engine | | | | |
| Control cables | | Ι | | |
| Cooling liquid | | Ι | | R |
| Note: A: To adjust; | C: To clean; | I: To insp | ect, clean or repl | ace if necessar |

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L: To lubricate; R: To replace.

Oil gauge

The following are some instructions on periodical check:

1). Lubricating oil check (Fig 18)

Check the oil gauge. Make sure there is enough lubricating oil; the capacity is 4.5L. (Engine 2.5L, Transmission: 2L).

2.) Fuel tank check

Check for enough fuel in the fuel tank. The fuel tank capacity is 20L.RQ93 unleaded gasoline is recommended. Do not fill too much fuel, or the fuel may overflow and cause a fire.

Fig 18

3.) Tire pressure check

Check if the tire pressure is normal. The recommended tire pressure is 200kpa; Check if there are any metal fragments or nails stuck in the tire; if so, remove them immediately. Check if there is any crack or severe tear on the tire, replace the tire if necessary.

4.) Battery check

The normal voltage should be above 12.8V; Keep the terminals clean and the connections tight. ; If the voltage is below the normal condition, remove the battery to recharge

5.) Chassis check

After cleaning the chassis, inspect the body, front and rear suspensions, rocker arm, rear axle and fasteners and check if there is any weld failure, crack or loose connections. Clutch master cylinder

6.) Brake system check

The brake pedal must have proper length of travel. Length of travel is the distance from brake pedal's idle position to its working position, and it is about 15-25mm.

Periodically inspect the thickness of the brake disc. It should be replaced in case of any wear of over 1mm.

Periodically inspect the level of the brake fluid in the oil cup. When the brake fluid is below the required level, fill new DOT4 brake fluid.







Always keep the brake discs and the brake pads clean.

Fig 20

7) Maintenance guide

Repair should be done by professional service center, unless the owner possesses repair expertise and a complete set of repairing tools. Stop the engine before repairing the kart.

WARNING: If your kart has experienced a collision or overturn, please carefully inspect each part of the kart, such as the frame, suspension and steering device; Driving damaged kart is forbidden as it will endanger yourself.

3.3 Required torque for tightening the bolts and nuts:

| number | Item | Required torque | |
|--------|----------------------|-----------------|----------|
| | | N. M | Kgf m |
| 1 | Front swing arm bolt | 50~60 | 5~6 |
| 2 | Rear swing arm bolt | 95~105 | 9.5~10.5 |
| 3 | Rear swing arm nut | 95~105 | 9.5~10.5 |

| 4 | Nuts at front and rear hub | 65~75 | 6.5~7.5 |
|---|----------------------------|-------|---------|
| 5 | Nuts at front and rear rim | 65~75 | 6.5~7.5 |

4. Trouble Shooting

(1) Engine does not start, or suddenly stops during driving, first inspect electrical circuit status , then

| Troubles | Causes | Solutions |
|------------------------|------------------------------------|-------------------------------|
| Engine suddenly stops. | (1) Spark short circuit. | (1) Clean or replace |
| | (2) Carbon accumulation on spark | (2) Remove accumulated carbon |
| | plug. | |
| | (3) Ignition coil is damaged. | (3) Replace. |
| | (4) Piston seized in the cylinder. | (4) Repair |

check for enough fuel in the fuel tank, and then perform following inspections.

| Engine runs more and | (1) Fuel dust clogs. | (1) Clean |
|----------------------------|--------------------------------------|------------------------|
| more slowly, until finally | (2) Cylinder head blows or gasket is | (2) Tighten or replace |
| stops running. | damaged. | |
| | | |
| | | |
| | | |
| | | |

(.2) Engine difficult to start

| Troubles | Causes | Solutions |
|----------------------------|--------------------------------------|----------------------|
| Fuel fail to flow into the | (1) Fuel screen clogged | (1) Clean and wash |
| carburetor. | (2) Fuel pipeline clogged. | (2) Clean and purge. |
| | (3) Fuel in the fuel tank exhausted. | (3) Refuel. |
| | (4) Fuel valve clogged. | (4) Clean and purge |
| Inspection finds the spark | (1) Spark plug damaged. | (1) Replace. |
| is weak. | (2) The clearance adjustment of the | (2) Adjust. |
| | spark plug is improper. | |
| | (3) CDI components have defects. | (3) Replace |

| | (4) The ignition coil is damaged. | (4) Replace |
|----------------------------|-------------------------------------|------------------------|
| Spark plug fails to create | (1) Spark plug is damaged. | (1) Replace. |
| spark. | (2) Spark plug is dirty or wet or | (2) Clean |
| | shorted out. | |
| | (3) The clearance adjustment of the | (3) Adjust. |
| | spark plug is improper. | |
| | (4) CDI components have defects. | (4) Replace |
| | (5) The ignition switch is damaged. | (5) Replace |
| | (6) The ignition switch has bad | |
| | contact. | (6) Replace |
| | (7) Electrical wire is damaged. | |
| | | (7) Repair or replace. |

| The cylinder | (1) Too much wear on the cylinder or | (1) Repair or replace. |
|-------------------------|--------------------------------------|------------------------|
| compression pressure is | piston ring. | |
| too low. | (2) Piston ring gets stuck | (2) Repair |
| | (3) Cylinder head gasket is damaged. | (3) Replace |
| | (4) Spark plug is loose. | |
| | | (4) Properly tighten |
| | | |
| | | |
| | | |
| | | |

(3) Abnormal sound from Engine

| Troubles | Causes | Solutions |
|--------------------------|--------------------------------|------------------------------------|
| It is noisier as the rpm | (1) Too much clearance between | (1) Repair the cylinder or replace |
| increases. | piston and cylinder. | it. |
| | (2) Piston ring is too loose. | |

| | (3) Too much wear at the crank | (2) Replace |
|--------------------------|---------------------------------------|----------------------|
| | bearing | (3) Replace |
| (4) Braking is bad | | |
| Trouble | Causes | Solutions |
| Braking is not effective | (1) Excessive wear at the brake pads. | (1) Replace |
| | (2) Brake pads are dirty. | |
| | (3) Brake disc wears or stained with | (2) Clean. |
| | oil. | (3) Clean or replace |
| | (4) Too much idle travel | |
| | (5) There is air in the hydraulic | (4) Adjust |
| | braking oil hose. | (5) Eliminate air |

(5) Fuel consumption is too much

| Troubles | Causes | Solving methods |
|----------|--------|-----------------|
|----------|--------|-----------------|

| Fuel consuming too | (1) Carburetor adjustment is not | (1) Adjust the carburetor |
|--------------------|--------------------------------------|---|
| much | proper | |
| | (2) Fuel pipeline leakage | (2) Find the repair the leakage |
| | (3) Carburetor float dose not work | (3) Repair or replace |
| | (4) Brakes drag | (4) Adjust until brakes move smoothly. |
| | (5) Tyre pressure is not enough | (5) Inflate the tire to its prescribed pressure |
| | (6) Engine works improperly | (6) Inspect the engine |
| | (7) Too much dirt in the air cleaner | (7) Maintain the air cleaner, and |
| | and cause it clogging and too thick | clear the dirt and dust, or |
| | mixed air | replace the filter |
| | | |

5. VIN

Product identification number:

Please take down the frame number and engine number for reference. The frame number is stamped on right frame at the back of the kart.