

# **OWNER'S MANUAL**

## **(YK200G-1)**

**WARNING:**

**THIS VEHICLE IS NOT DESIGNED FOR USE ON RENTAL TRACKS  
OR RACING**

Thank you for purchasing our GO-KART. We hope you will enjoy it. Before you start to operate the GO-KART, please read through this Owner's Manual carefully as it contains important safety and maintenance information. Failure to follow the warnings contained in this manual can result in serious injuries or death.

Be sure to follow the recommended maintenance schedule and service your GO-KART accordingly. Preventive maintenance is extremely important to the longevity of your GO-KART.

Beginners should seek instructions from your dealer or qualified instructors before and during initial use of the GO-KART. It is also recommended to practice in a large open area and familiar with operations of this GO-KART.

We hope you will have a pleasant experience with our products and thanks again for choosing our GO-KART.

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## **1. FOREWORD**

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### **FOREWORD**

Congratulations on the purchase of your GO-KART. We take pride in offering you this product engineered and manufactured to the highest performance and quality standards. We are sure that you will enjoy superior levels of performance, reliability, riding comfort, and safety.

This manual is provided to help the owner and operators of this GO-KART become familiar with the operating characteristic, and the many features offered on the GO-KART. The manual also covers information on the care and maintenance of your GO-KART.

Please read this manual carefully. The information contained in this Owner's Manual, the Warning Labels supplied with this product will help you to understand the safe use and maintenance of your GO-KART. Make sure that you understand and follow all Warnings and Instructions in this material.

If you did not receive any of the material listed above, please call your dealer and request to have them sent to you.

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Product and specifications are subject to change without notice.

## 1. FOREWORD

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### Important Safety Notice

- This vehicle is designed and manufactured for off-road use only. It is illegal to operate this vehicle on any public street, road, or highway. Such use is prohibited by law.
- Check the laws and regulations in force before choosing where to operate this vehicle. It is illegal to operate this vehicle on public lands where vehicles its size are prohibited.
- Never make any modifications to the engine, drive system, mechanical or electrical systems of your GO-KART. Never install aftermarket parts or accessories intended to increase the speed or power of your GO-KART.
- Failure to follow these warnings increases the possibility of accidents leading to **DEATH** or **SERIOUS INJURY!**
- Additionally, failure to follow these requirements will void the Warranty on your GO-KART.

#### NOTE

The addition and use of certain accessories including, (but not limited to) mowers, blades, sprayers, winches and windshields will change the handling characteristics and the performance of your GO-KART.

### Practice Responsible GO-KART Riding

Make sure that you understand and follow all local, state/province, and federal/national riding laws and requirements.

Remember.....Respect your vehicle, respect the environment and respect the property of others. You are responsible for your safety and the safety of others around you when you ride!

## 1. FOREWORD

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### **A GO-KART CAN BE HAZARDOUS TO OPERATE.**

A GO-KART handles differently from other vehicles including motorcycles, ATVs and Cars. A collision rollover can occur quickly, even during routine maneuvers such as turning and driving on hills or over obstacles, if you fail to take proper precautions.



#### **SERIOUS INJURY OR DEATH**

can result if you do not follow these instructions.

- Read this manual and all labels carefully and follow the operating procedures described.
- This vehicle is designed to carry the driver and one passenger. Never carry passengers in the cargo bed.
- Always be sure the driver and passenger are wearing seat belts.
- Never allow anyone who is not an adult to operate this GO-KART.
- Never permit a guest to operate this GO-KART unless the guest has read this manual and all product labels.
- The driver and passenger must wear approved off-road motorcycle -type helmets that fit properly. The driver and passenger should also wear eye protections (glasses or face shields), gloves, boots, long-sleeved shirts or jackets, and long pants.
- As with any off-road-capable vehicle, there is a risk of tip over or rollover under certain conditions. Uneven terrain or slopes which pitch the vehicle sideways, turning too fast or sharp, or a combination of conditions increase the risk of tip over.

If you are in a situation where the vehicle is tipping over, do not put your arm or/ and leg outside the vehicle, do not try to stop tipping with your arm or leg. You could be severely injured. You could suffer a crushed hand, arm, leg, or foot, if part of your body is caught underneath the vehicle.

You must keep your arms and legs inside the vehicle until it has stopped moving.

- Never consume alcohol or drugs before or while operating this GO-KART.
- Never operate at excessive speeds. Always travel at a speed which is proper for the terrain, visibility and operating conditions, and your experience.

## 1. FOREWORD

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- Never attempt wheelies, jumps or other stunts.
- Always inspect your GO-KART each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.
- Always keep hands, arms, feet, and legs inside the vehicle at all times during operation. Keep your feet on the floorboard. Never hold onto the enclosure except when using the handgrip inside the enclosure. Otherwise, your hand could be injured if it is caught between the enclosure and an obstacle outside the vehicle.
- Always keep both hands on the steering wheel when driving.
- Never wrap your thumbs and fingers around the steering wheel. This is particularly important when driving in rough terrain. The front wheels will move right and left as they respond to the terrain, and this movement will be felt in the steering wheel. A sudden jolt could wrench the steering wheel around, and your thumbs or fingers could be injured if they are in the way of the steering wheel spokes.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the GO-KART.
- Never operate on excessively rough, slippery or loose terrain.
- Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speed.
- Always have the GO-KART checked by an authorized dealer if it has been involved in an accident.
- Never operate GO-KART on hills too steep for the GO-KART or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills as described in this manual. Check the terrain carefully before you start up any hill. Never climb hills with excessively slippery or loose surfaces. Never open throttle suddenly or make sudden gear changes. Never go over the top of any hill at high speed.
- Always follow proper procedures for going down hills and for braking on hills as described in this manual. Check the terrain carefully before you start down any hill. Never go down a hill at high speed. Avoid going down a hill at an angle which would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.
- Always follow proper procedures for crossing the side of a hill as

## 1. FOREWORD

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described in this manual. Avoid hills with excessively slippery or loose surfaces. Never attempt to turn the GO-KART around on any hill. Avoid crossing the side of a steep hill if possible.

- Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual.
- Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be careful of skidding or sliding. On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.
- Avoid operating the GO-KART through deep or fast flowing water. Avoid water which exceeds the recommended maximum depth. Go slowly, carefully avoiding sudden movements, maintain a slow and steady forward motion, do not make sudden turns or stops, and do not make sudden throttle changes.
- Wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary apply them lightly several times to let friction dry out the pads.
- Always be sure there are no obstacles or people behind you when you operate in reverse. When it is safe to proceed in reverse, go slowly. Avoid turning at sharp angles in reverse.
- Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.
- Never modify A GO-KART through improper installation or use of accessories.
- Never exceed the stated load capacity. Cargo should be as far forward in the bed as possible, and distributed evenly from side to side. Be sure cargo is secured so that it cannot move around during operation. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer. Allow greater distance for braking.

## 2. UNDERSTANDING WARNINGS

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### ATTENTION:

This is an ADULT VEHICLE ONLY! Not a toy!  
READ AND UNDERSTAND WARNINGS AND OWNER'S MANUAL  
BEFORE OPERATION.



**KNOW YOUR VEHICLE BEFORE YOU BEGING RIDING!**

Read this manual thoroughly referring to the various areas which are being discussed on your machine. Operating this vehicle carries with it responsibilities for your personal safety, the safety of others, and the protection of our environment.

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**NOTE:** Illustrations used in this manual are for general representation only. Your model may differ.

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## 2. UNDERSTANDING WARNINGS

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### SAFETY ALERT

**WARNINGS** identify special instructions or procedures which, if not correctly followed, could result in personal injury, or loss of life. Read all **WARNINGS** in this manual carefully. Follow their instructions to remain safe.

The following precautionary signal words are used throughout this manual to convey the following messages:



This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury. Your safety is involved!



### **WARNING**

Indicates a potential hazard which could result in severe injury or death.



### **CAUTION**

Indicates a potential hazard which may result in minor personal injury or damage to the GO-KART.



### **CAUTION**

Indicates a situation that can result in damage to the machine.

### **NOTE**

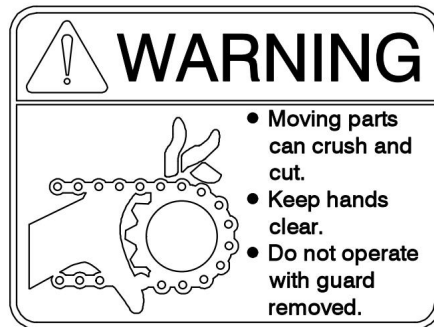
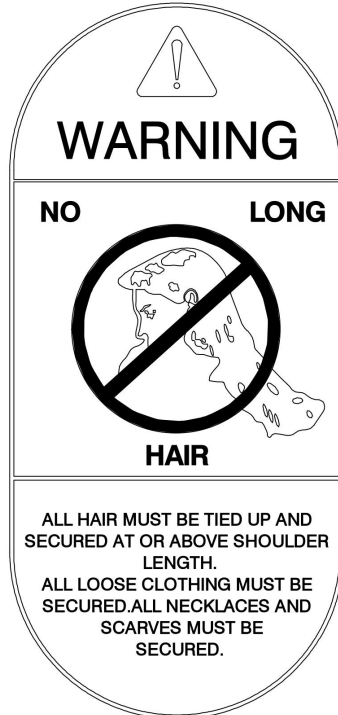
The word “NOTE” in this manual will alert you to key information or instructions.

### 3. SAFETY WARNING

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**NOTE:**

Warning decals have been placed on the vehicle for your protection. Read and follow the instructions on each decal carefully. In the event any decal becomes illegible or comes off, contact your dealer for a replacement.

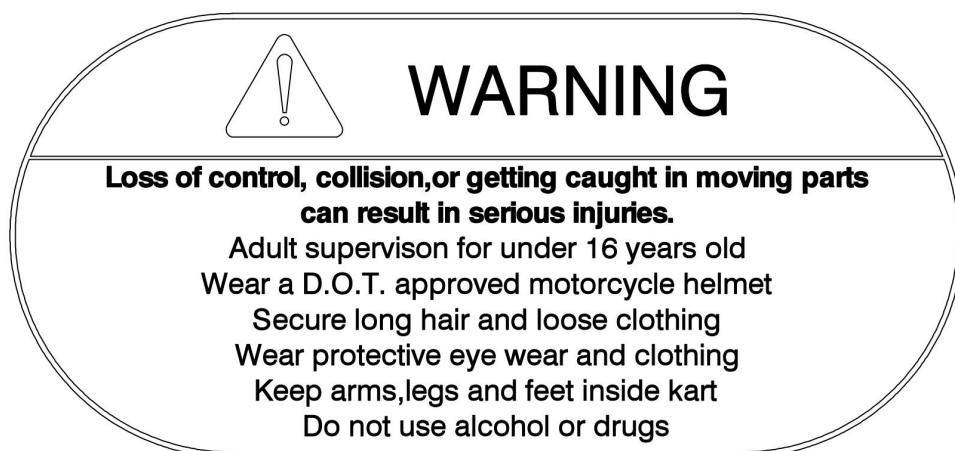
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### 3. SAFETY WARNING

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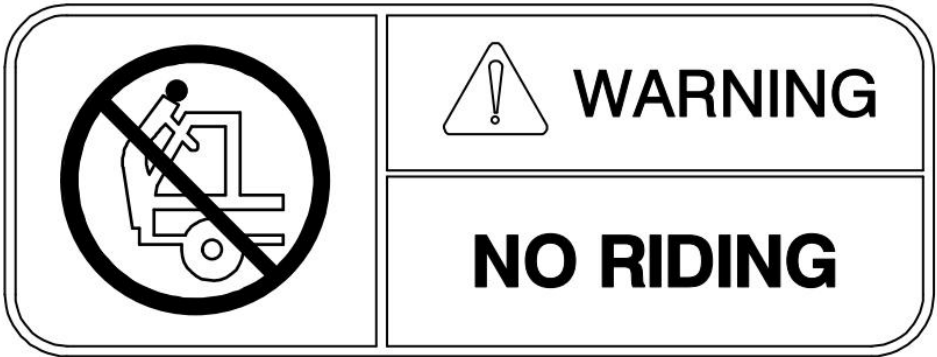
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**3. SAFETY WARNING**

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## 4. DAILY PRE-RIDE INSPECTION



### WARNING

You must inspect your GO-KART each time before riding to ensure it is in proper working order. If proper inspection is not done, severe injury or death could result.

Use the following checklist to verify your machine is in proper working order each time you ride.

### ITEM/ INSPECTION PROCEDURE

**1. Tire**— check condition and pressures.

**2. Fuel tank**— checking for leaking, fill the fuel tank to its proper level.

**3. All brakes**—check fluid level, check operation, adjustment (includes parking brake).

● Brake pedal

Check for correct brake pedal free play. If the brake pedal free play is incorrect, have an authorized dealer adjust it. Check the operation of the brake pedal. It should move smoothly and there should be a firm feeling when the brakes are applied. If not, have the vehicle inspected by your dealer.

● Brake fluid leakage

Check to see if any brake fluid is leaking out of the pipe joints or the brake fluid reservoir. Apply the brakes firmly for one minute. If there is any leakage, have the vehicle inspected by an authorized dealer.

● Brake fluid level

Check the brake fluid level.

Add fluid if necessary.

● Brake operation

Test the brakes at slow speed after starting out to make sure they are working properly. If the brakes do not provide proper braking performance, inspect the brake system.

**4. Throttle/ Accelerator pedal**— check for free operation, closing and free play.

Check to see that the accelerator pedal operates correctly. It must operate smoothly and fully spring back to the idle position when be

## 4. DAILY PRE-RIDE INSPECTION

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released.

Have an authorized dealer repair as necessary for proper operation.

**5. Headlight / Taillight / Brake light**— check operation of all indicator lights and switches.

**6. Wheels**— check for tightness of wheel nuts and axle nuts; check for those axle nuts are secured by cotter pins.

Check balance/ damage/ run out. Have an authorized dealer repair/ replace if necessary.

Check bearing assemblies for looseness/damage. Have an authorized dealer replace if damaged.

**7. Air cleaner element**— check for dirt; clean or replace.

**8. Steering**— check for free operation noting any unusual looseness in any area.

Park on Horizontal ground. Turn the steering wheel right and left. Check for excessive free play, abnormal noises, or a rough feeling. Have an authorized dealer repair as necessary for proper operation.

**9. Loose parts**—visually inspect vehicle for any damaged components or loose nuts/bolts or fasteners.

Always check the tightness of chassis fittings and fasteners before a ride. Take the vehicle to your dealer for correct tightening torque.

**10. Operator's and passenger's helmets, goggles and clothing.**

**11. Seat belts**— Check for proper operation and belt wear.

Make sure that both seat belts are not frayed or damaged. The seat belt must move smoothly when pulled out and retract on its own when released. The latch plate should click securely into the buckle and release when the release button is pushed firmly. Clean off any dirt or mud which could affect operation. Have an authorized dealer repair as necessary for proper operation.

## 5. OPERATION WARNINGS

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### **WARNING**

#### **POTENTIAL HAZARD**

Improper handling of gasoline.

#### **WHAT CAN HAPPEN**

Gasoline can catch fire and you could be burned.

#### **HOW TO AVOID THE HAZARD**

Always turn off the engine when refueling. Do not refuel right after the engine has been running and is still very hot. Do not spill gasoline on the engine or exhaust pipe/muffler when refueling. Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of water heaters and clothes dryers.



### **WARNING**

#### **POTENTIAL HAZARD**

Checking the fuel system while smoking or near an open flame.

#### **WHAT CAN HAPPEN**

Fuel can ignite or explode, causing severe injury or property damage.

#### **HOW TO AVOID THE HAZARD**

Do not smoke when checking the fuel system. Make sure there are no open flames or sparks in the area, including pilot lights from water heaters or furnaces.

## 5. OPERATION WARNINGS

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### **WARNING**

#### **POTENTIAL HAZARD**

When transporting the vehicle in another vehicle, be sure it is kept in an upright position. Otherwise, fuel may leak out of fuel tank.

#### **WHAT CAN HAPPEN**

Gasoline is poisonous and can cause injuries.

#### **HOW TO AVOID THE HAZARD**

If you should swallow some gasoline or inhale a lot of gasoline vapor, or get some gasoline in your eyes, see your doctor immediately. If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes.



### **WARNING**

#### **POTENTIAL HAZARD**

Malfunction of the accelerator pedal.

#### **WHAT CAN HAPPEN**

The accelerator pedal could be hard to operate, making it difficult to speed up or slow down when you need to. This could cause an accident.

#### **HOW TO AVOID THE HAZARD**

Check the operation of the accelerator pedal before you start the engine. If it does not work smoothly, check for the cause. Correct the problem before operating the vehicle. Consult an authorized dealer if you can't find or solve the problem yourself.



### **WARNING**

#### **POTENTIAL HAZARD**

A loose seat.

#### **WHAT CAN HAPPEN**

The operator could lose control or the operator or passenger could fall if the seat is loose during operation.

#### **HOW TO AVOID THE HAZARD**

Make sure the seat is securely latched.



## 5. OPERATION WARNINGS

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### **WARNING**

#### **POTENTIAL HAZARD**

Not wearing the seat belt.

Wearing the seat belt improperly.

#### **WHAT CAN HAPPEN**

There is increased risk of being killed or seriously injured in an accident.

#### **HOW TO AVOID THE HAZARD**

Always wear your seat belt when riding in the vehicle.

Be sure the seat belt is close-fitting across your hips and chest and is latched securely.



### **WARNING**

#### **POTENTIAL HAZARD**

Try to stop the tipping vehicle with your arm or leg .

#### **WHAT CAN HAPPEN**

You could be severely injured. You could suffer a crushed hand, arm, leg, or foot.

#### **HOW TO AVOID THE HAZARD**

You must keep your arms and legs inside the vehicle until it has stopped moving.

As with any off-road-capable vehicle, there is a risk of tip over or rollover under certain conditions. Uneven terrain or slopes which pitch the vehicle sideways, turning too fast or sharp, or a combination of conditions increase the risk of tip over.

If you are in a situation where the vehicle is tipping over, do not put your arm or/ and leg outside the vehicle, do not try to stop tipping with your arm or leg. You could be severely injured. You could suffer a crushed hand, arm, leg, or foot, if part of your body is caught underneath the vehicle.

## 5. OPERATION WARNINGS



### WARNING

#### POTENTIAL HAZARD

Pinch points.

#### WHAT CAN HAPPEN

You or someone else could be pinched between the cargo bed and the frame when the bed is being lowered.

#### HOW TO AVOID THE HAZARD

Before closing the cargo bed, be sure others are standing away from the vehicle. Keep hands and fingers away from the pinch points between the bed and the frame.



### WARNING

#### POTENTIAL HAZARD

Overloading the cargo bed.

#### WHAT CAN HAPPEN

Could cause changes in vehicle handling which could lead to an accident.

#### HOW TO AVOID THE HAZARD

Never exceed the stated maximum load limit for this cargo bed.

Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo. Allow greater distance for braking.



### WARNING

#### POTENTIAL HAZARD

Carrying a passenger/ passengers in the cargo bed.

#### WHAT CAN HAPPEN

The passenger(s) could fall, be thrown out, or be struck by objects in the cargo bed.

#### HOW TO AVOID THE HAZARD

Never carry a passenger/ passengers in the cargo bed. This cargo bed is designed to carry cargo only.

## 5. OPERATION WARNINGS

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### **WARNING**

#### **POTENTIAL HAZARD**

Improper shock absorber adjustment.

#### **WHAT CAN HAPPEN**

Uneven adjustment can cause poor handling and loss of stability, which could lead to an accident.

#### **HOW TO AVOID THE HAZARD**

Always adjust the shock absorbers on the left and right side to the same setting.



### **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.



### **WARNING**

#### **POTENTIAL HAZARD**

Improper care when refueling.

#### **WHAT CAN HAPPEN**

Fuel can spill, which can cause a fire and severe injury. Fuel expands when it heats up. If the fuel tank is overfilled, fuel could spill out due to heat from the engine or the sun.

#### **HOW TO AVOID THE HAZARD**

Do not overfill the fuel tank. Be careful not to spill fuel, especially on the

## 5. OPERATION WARNINGS

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engine or exhaust pipe. Wipe up any spilled fuel immediately. Be sure the fuel tank cap is closed securely.



### **WARNING**

#### **POTENTIAL HAZARD**

Operating vehicle without being familiar with all controls.

#### **WHAT CAN HAPPEN**

Loss of control, which could cause an accident or injury.

#### **HOW TO AVOID THE HAZARD**

Read the Owner's Manual carefully. If there is a control or function you do not understand, ask our authorized dealer.



### **WARNING**

#### **POTENTIAL HAZARD**

Freezing control cables in cold weather.

#### **WHAT CAN HAPPEN**

You could be unable to control the vehicle, which could lead to an accident or collision.

#### **HOW TO AVOID THE HAZARD**

When riding in cold weather, always make sure all control cables work smoothly before you begin riding.



### **WARNING**

#### **POTENTIAL HAZARD**

Overloading this vehicle or carrying or towing cargo improperly.

#### **WHAT CAN HAPPEN**

Could cause changes in vehicle handling which could lead to an accident.

#### **HOW TO AVOID THE HAZARD**

Never exceed the stated load capacity for this vehicle.

Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.

## 5. OPERATION WARNINGS

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### **WARNING**

#### **POTENTIAL HAZARD**

Servicing an engine while it is running.

#### **WHAT CAN HAPPEN**

Moving parts can catch clothing or parts of the body, causing injury.

Electrical components can cause shocks or can start fires.

#### **HOW TO AVOID THE HAZARD**

Turn off the engine when performing maintenance unless otherwise specified.

Have an authorized dealer perform service if you are not familiar with vehicle service.



### **WARNING**

#### **POTENTIAL HAZARD**

Operating this vehicle with improper modifications.

#### **WHAT CAN HAPPEN**

Improper installation of accessories or modification of this vehicle may cause changes in handling which in some situations could lead to an accident.

#### **HOW TO AVOID THE HAZARD**

Never modify this vehicle through improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine parts or equivalent components designed for use on this vehicle and should be installed and used according to instructions. If you have questions, consult an authorized dealer.

## 5. OPERATION WARNINGS



### WARNING

#### POTENTIAL HAZARD

Using low flash point solvents or gasoline to clean the sponge material.

#### WHAT CAN HAPPEN

Low flash point solvents or gasoline can catch fire or explode.

#### HOW TO AVOID THE HAZARD

Use parts cleaning solvent to clean the sponge material.



### WARNING

#### POTENTIAL HAZARD

` Hot exhaust system.

#### WHAT CAN HAPPEN

Could injure the eyes. Could cause burns.

Could cause carbon monoxide poisoning, possibly leading to death.

Could start a fire.

#### HOW TO AVOID THE HAZARD

When cleaning the spark arrester: Always let the exhaust system cool prior to touching exhaust components.

Do not start the engine when cleaning the exhaust system.

## 5. OPERATION WARNINGS



### WARNING

#### POTENTIAL HAZARD

Operating with improperly serviced or adjusted brakes.

#### WHAT CAN HAPPEN

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

#### HOW TO AVOID THE HAZARD

After servicing:

- Make sure the brakes operate smoothly and that the brake pedal position is correct.
- Make sure the brakes do not drag.
- All air must be bled from the brake system.

Replacement of brake components requires professional knowledge. These procedures should be performed by an authorized dealer.



### WARNING

#### POTENTIAL HAZARD

Damaged control cables.

#### WHAT CAN HAPPEN

Corrosion can result when the outer covering of control cables becomes damaged. Cables can also become frayed or kinked. Operation of controls could be restricted, which could cause an accident or injury.

#### HOW TO AVOID THE HAZARD

Inspect cables frequently. Replace damaged cables.

## 5. OPERATION WARNINGS



### WARNING

#### POTENTIAL HAZARD

Failure to handle batteries or battery electrolyte carefully.

#### WHAT CAN HAPPEN

You could be poisoned. You could be severely burned by the sulfuric acid in battery electrolyte. Batteries produce explosive gases.

#### HOW TO AVOID THE HAZARD

Avoid contact with skin, eyes or clothing. Always shield eyes when working near batteries. Keep out of reach of children.

Antidote:

EXTERNAL: Flush with water.

INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Get prompt medical attention.

EYES: Flush with water for 15 minutes and get prompt medical attention.

Keep batteries away from sparks, flames, cigarettes or other sources of ignition. Ventilate when charging or using in a closed space.



### WARNING

#### POTENTIAL HAZARD

Using an improper fuse.

#### WHAT CAN HAPPEN

An improper fuse can cause damage to the electrical system, which could lead to a fire.

#### HOW TO AVOID THE HAZARD

Always use a fuse of the specified rating. Never use a material in place of the proper fuse.



## 5. OPERATION WARNINGS

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### **WARNING**

#### **POTENTIAL HAZARD**

A headlight bulb is hot when it is on and immediately after it is turned off.

#### **WHAT CAN HAPPEN**

You can be burned, or a fire could start if the bulb touches something flammable.

#### **HOW TO AVOID THE HAZARD**

Wait for the bulb to cool before touching or removing it.



### **WARNING**

#### **POTENTIAL HAZARD**

Operation with wet brakes after washing.

#### **WHAT CAN HAPPEN**

Wet brakes may have reduced stopping ability, increasing the chance of an accident.

#### **HOW TO AVOID THE HAZARD**

Test the brakes after washing. Apply the brakes several times at slow speeds to let friction dry out the linings.

## 5. OPERATION WARNINGS



### WARNING

#### POTENTIAL HAZARD

Operating/ riding this GO-KART without wearing an approved helmet, eye protection and protective clothing.

#### WHAT CAN HAPPEN

Operating/ riding without an approved helmet increases your chances of a severe head injury or death in the event of an accident.

Operating/ riding without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.

#### HOW TO AVOID THE HAZARD

Always wear an approved helmet which fits properly.

You should also wear: eye protection (goggles or face shield); gloves; boots; long-sleeved shirt or jacket; and long pants.



### WARNING

#### POTENTIAL HAZARD

Operating this GO-KART after consuming alcohol or drugs.

#### WHAT CAN HAPPEN

Could seriously affect your judgment.

Could cause you to react more slowly.

Could affect your balance and perception.

Could result in an accident.

#### HOW TO AVOID THE HAZARD

Never consume alcohol or drugs before or while driving this GO-KART.

## 5. OPERATION WARNINGS



### WARNING

#### POTENTIAL HAZARD

Operating this GO-KART at excessive speeds.

#### WHAT CAN HAPPEN

Increases your chances of losing control of the GO-KART, which can result in an accident.

#### HOW TO AVOID THE HAZARD

Always travel at a speed which is proper for the terrain, visibility and operating conditions; and your experience.



### WARNING

#### POTENTIAL HAZARD

Attempting wheelies, jumps and other stunts.

#### WHAT CAN HAPPEN

Increases the chance of an accident, including an overturn.

#### HOW TO AVOID THE HAZARD

Never attempt stunts, such as wheelies or jumps.



### WARNING

#### POTENTIAL HAZARD

Failure to inspect the GO-KART before operating.

Failure to properly maintain the GO-KART.

#### WHAT CAN HAPPEN

Increases the possibility of an accident or equipment damage.

#### HOW TO AVOID THE HAZARD

Always inspect your GO-KART each time you use it to make sure the GO-KART is in safe operating condition.

Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.

## 5. OPERATION WARNINGS



### WARNING

#### POTENTIAL HAZARD

Removing hands from steering wheel or feet from footrests during operation.

#### WHAT CAN HAPPEN

Removing even one hand or foot can reduce your ability to control the GO-KART or could cause you to lose your balance and fall off the GO-KART.

#### HOW TO AVOID THE HAZARD

Always keep both hands on the steering wheel and both feet on the footrests of your GO-KART during operation.



### WARNING

#### POTENTIAL HAZARD

Failure to use extra care when operating this GO-KART on unfamiliar terrain.

#### WHAT CAN HAPPEN

You can come upon hidden rocks, bumps, or holes, without enough time to react.

Could result in the GO-KART overturning or going out of control.

#### HOW TO AVOID THE HAZARD

Go slowly and be extra careful when operating on unfamiliar terrain.

Always be alert to changing terrain conditions when operating the GO-KART.



### WARNING

#### POTENTIAL HAZARD

Climbing hills improperly.

#### WHAT CAN HAPPEN

Could cause loss of control or cause GO-KART to overturn.

## 5. OPERATION WARNINGS

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### HOW TO AVOID THE HAZARD

Always follow proper procedures for climbing hills as described in the Owner's Manual.

Always check the terrain carefully before you start up any hill.

Never climb hills with excessively slippery or loose surfaces.

Never open the throttle suddenly. The GO-KART could flip over backwards.

Never go over the top of any hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.



### WARNING

#### POTENTIAL HAZARD

Turning improperly.

#### WHAT CAN HAPPEN

GO-KART could go out of control, causing a collision or overturn.

#### HOW TO AVOID THE HAZARD

Always follow proper procedures for turning as described in the Owner's Manual.

Practice turning at low speeds before attempting to turn at faster speeds.

Do not turn at excessive speed.



### WARNING

#### POTENTIAL HAZARD

Operating on excessively steep hills.

#### WHAT CAN HAPPEN

The vehicle can overturn more easily on extremely steep hills than on level surfaces or small hills.

#### HOW TO AVOID THE HAZARD

Never operate the GO-KART on hills too steep for the GO-KART or for your abilities.

Practice on smaller hills before attempting large hills.

Never operate GO-KART on hills steeper than 15%.

## 5. OPERATION WARNINGS

---



### **WARNING**

#### **POTENTIAL HAZARD**

Going down a hill improperly.

#### **WHAT CAN HAPPEN**

Could cause loss of control or cause GO-KART to overturn.

#### **HOW TO AVOID THE HAZARD**

Always follow proper procedures for going down hills as described in the Owner's Manual.

NOTE: A special technique is required when braking as you go downhill.

Always check the terrain carefully before you start down any hill.

Never go down a hill at high speed.

Avoid going down a hill at an angle which would cause the vehicle to lean sharply to one side.

Go straight down the hill where possible.



### **WARNING**

#### **POTENTIAL HAZARD**

Improperly crossing hills or turning on hills.

#### **WHAT CAN HAPPEN**

Could cause loss of control or cause GO-KART to overturn.

#### **HOW TO AVOID THE HAZARD**

Never attempt to turn the GO-KART around on any hill until you have mastered the turning technique as described in the Owner's Manual on level ground. Be very careful then turning on any hill.

Avoid crossing the side of a steep hill if possible.

#### **When crossing the side of a hill:**

Always follow proper procedures as described in the Owner's Manual.

Avoid hills with excessively slippery or loose surfaces.

## 5. OPERATION WARNINGS

---



### WARNING

#### POTENTIAL HAZARD

Stalling, rolling backwards or improperly dismounting while climbing a hill.

#### WHAT CAN HAPPEN

Could result in GO-KART overturning.

#### HOW TO AVOID THE HAZARD

Maintain steady speed when climbing a hill.

If you lose all forward speed:

Keep weight uphill.

Apply the brakes.

Lock parking brake after you are stopped.

If you begin rolling backwards:

Keep weight uphill; never apply engine power.

Apply the brake gradually.

When fully stopped, apply rear brake as well, and then lock parking brake.

Dismount on uphill side, or to either side if pointed straight uphill.



### WARNING

#### POTENTIAL HAZARD

Improperly operating over obstacles.

#### WHAT CAN HAPPEN

Could cause loss of control or a collision. Could cause the GO-KART to overturn.

#### HOW TO AVOID THE HAZARD

Before operating in a new area, check for obstacles.

Use extreme caution when riding over large obstacles, such as large rocks or fallen trees.

If you cannot avoid obstacles, always follow proper procedures as

## 5. OPERATION WARNINGS

---

described in the Owner's Manual.



### **WARNING**

#### **POTENTIAL HAZARD**

Skidding or sliding.

#### **WHAT CAN HAPPEN**

You may lose control of the GO-KART.

You may also regain traction unexpectedly, which may cause the GO-KART to overturn.

#### **HOW TO AVOID THE HAZARD**

On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.



### **WARNING**

#### **POTENTIAL HAZARD**

Operating this GO-KART through deep or fast flowing water.

#### **WHAT CAN HAPPEN**

Tires may float, causing loss of traction and loss of control, which could lead to an accident.

#### **HOW TO AVOID THE HAZARD**

Never operating the GO-KART through water which exceeds the recommended maximum depth in this manual.

Avoid operating the GO-KART through deep or fast flowing water. If you cannot avoid water, go slowly, balance your weight carefully avoiding sudden movement, maintain a slow and steady forward motion, do not make sudden turns or stops, and do not make sudden throttle changes. Remember that wet brakes may have reduced stopping ability.

Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the pads.



## 5. OPERATION WARNINGS

---



### **WARNING**

#### **POTENTIAL HAZARD**

Improperly operating in reverse.

#### **WHAT CAN HAPPEN**

You could hit an obstacle or person behind you, resulting in severe injury.

#### **HOW TO AVOID THE HAZARD**

When you select reverse gear, make sure there are no obstacles or people behind you. When it is safe to proceed, go slowly.



### **WARNING**

#### **POTENTIAL HAZARD**

Operating this GO-KART with improper tires, or with improper or uneven tire pressure.

#### **WHAT CAN HAPPEN**

Use of improper tires on this GO-KART, or operation of this GO-KART with improper or uneven tier pressure, may cause loss of control, and increases the risk of an accident.

#### **HOW TO AVOID THE HAZARD**

Always use the size and type ties specified in the Owner's Manual for this vehicle.

Always maintain proper tire pressure a described in the Owner's Manual.

Use proper pressures stated on the side wall of the tire when seating the tire beads. Higher pressures may cause the tire to burst. Inflate the tires very slowly and carefully. Fast inflation could cause the tire to burst.

## 5. OPERATION WARNINGS

---



### **WARNING**

#### **POTENTIAL HAZARD**

Riding on frozen lakes and rivers.

#### **WHAT CAN HAPPEN**

Severe injury or death can result if the GO-KART and /or the operator break through the ice.

#### **HOW TO AVOID THE HAZARD**

Never ride you GO-KART on a frozen body of water.



### **WARNING**

After a rollover or an accident, have a qualified service dealer check the complete machine including, but not limited to, brakes, throttle and steering for possible damage.



### **WARNING**

Safe operation of this rider active vehicle requires good judgment and physical skills. Persons with cognitive or physical disabilities who operate this vehicle have an increased risk of overturns and loss of control which could result in severe injury or death.

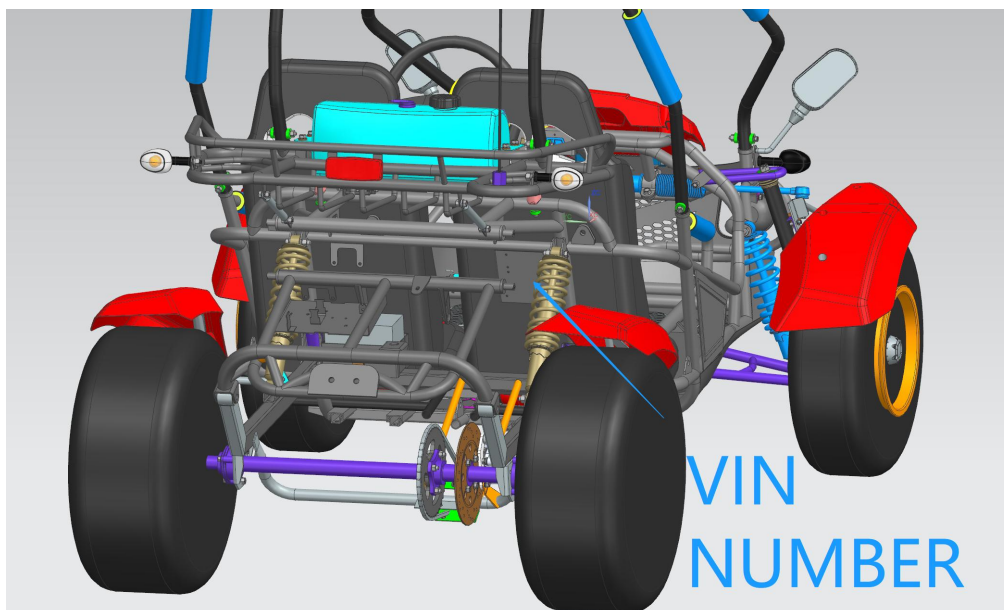


### **CAUTION**

Keep combustible materials away from exhaust system. Fire may result.

## 6. V.I.N. SERIAL NUMBER

---



Record these numbers from your GO-KART in the spaces provided.

Frame VIN

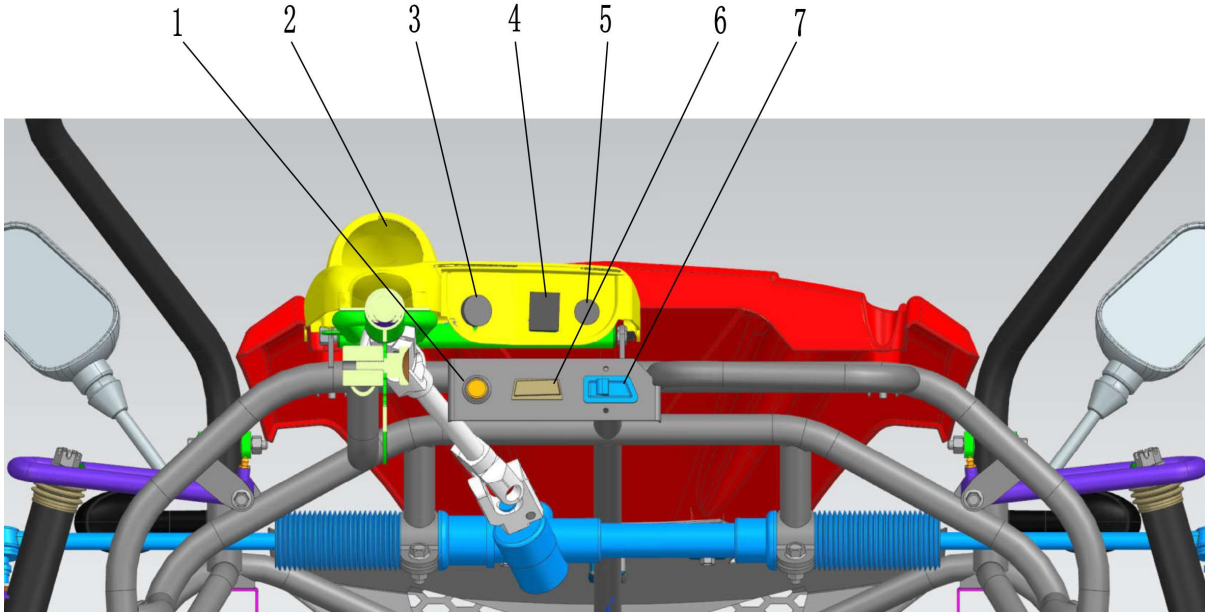
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The vehicle frame serial numbers are important for model identification when registering your vehicle, obtaining insurance or whenever replacement parts are required. In the event your vehicle were stolen these numbers are essential to the recovery and identification of your GO-KART.

## 7. CONTROL AND PARTS FUNCTIONS

### ELECTRICAL SWITCHES

#### Switch On Panel



1. Spotlight switch    2. Meter    3. Main Switch    4. Light Switch    5. Engine Stop Switch    6. Horn Switch    7. Turn Signal Switch

1. Spotlight switch -- Turn the spotlight on or off  
 2. Meter -- Display speed and light indication  
 3. Main Switch

Functions of the respective switch positions are as follows:

ON: All electrical circuits are supplied with power.

OFF: All electrical circuits are switched off. The key can be removed in this position.

START: The electric starter is engaged by turning and holding the key in this position. Release the key when the engine starts.



#### CAUTION

Do not operate the electric starter continuously for more than 5 seconds, or starter damage could occur. Wait at least 5 seconds between each operation of the electric starter to let it cool.

Do not turn the key to the "START" position with the engine running, or damage to

## 7. CONTROL AND PARTS FUNCTIONS

the electric starter can result.

4. Light Switch -- Turn the Light on or off
5. Engine Stop Switch --Stop the Engine
6. Horn Switch -- Turn the horn on or off
7. Turn Signal Switch -- For left and right turn signals work (optional)

### LCD METER



1. Left turn indication
2. Headlamp indicator
3. R Gear indicator
4. N Gear indicator
5. Tachometer
6. Speedometer
7. Right turn indication
8. Odometer
9. EFI fault indication
10. Gear indication
11. Fuel volume alarm

## 7. CONTROL AND PARTS FUNCTIONS

---



### CAUTION

Be sure the engine is on and the headlights are turned off before using the accessory socket, otherwise you may drain the battery.

When you are done using an accessory, unplug it, and cover the socket with the cap. Be careful not to flood this accessory socket when washing your GO-KART.

### ACCELERATOR PEDAL

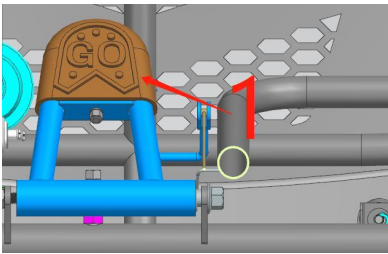


### WARNING

Before starting the engine, check the accelerator pedal to be sure it is operating smoothly.

Make sure the accelerator pedal fully returns to the idle position as soon as it is released.

---



#### 1. Accelerator pedal

Press the accelerator pedal down to increase engine speed. Spring pressure returns the pedal to the rest position when released. Always check that the accelerator pedal returns normally before starting the engine.



### WARNING

#### POTENTIAL HAZARD

Malfunction of the accelerator pedal.

#### WHAT CAN HAPPEN

The accelerator pedal could be hard to operate, making it difficult to speed up or slow down when you need to. This could cause an accident.

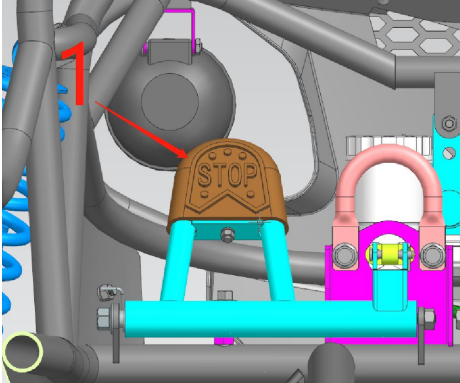
#### HOW TO AVOID THE HAZARD

Check the operation of the accelerator pedal before you start the engine. If it does not work smoothly, check for the cause. Correct the problem before operating the vehicle. Consult the authorized dealer if you can't find or solve the problem yourself.

## 7. CONTROL AND PARTS FUNCTIONS

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### BRAKE PEDAL



1.Brake pedal

Press the brake pedal to slow or stop the vehicle.



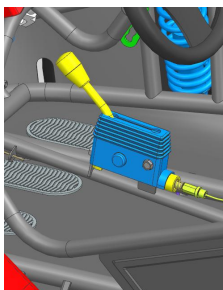
### WARNING

Never operate the GO-KART with a spongy feeling brake pedal. Operating the GO-KART with a spongy brake pedal can result in loss of braking. Loss of braking could cause an accident.

---

### PARKING BRAKE LEVER

The parking brake lever is located at the left hand of the steering wheel . It will help hold the vehicle from moving while parked. To set the parking brake, pull the lever up completely. The parking indicator light will come on if the main switch is on. To release the parking brake, pull up on the lever, press the release button, and then push the lever all the way down. Be sure to fully release the parking brake before starting out. Failure to do so may result in poor performance and premature wearing of the parking brake and V-belt.

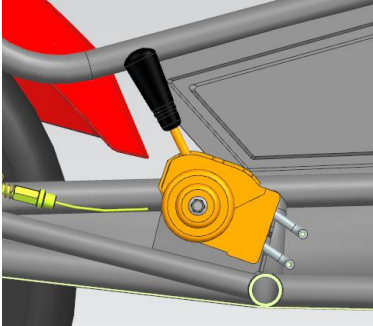


Parking brake lever

## 7. CONTROL AND PARTS FUNCTIONS

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### AUTOMATIC TRANSMISSION GEAR SELECTOR OPERATION



The transmission gear selector is located at the right side of the steering wheel. The transmission selector lever has four positions: H drive; L drive; neutral; reverse.



#### CAUTION

To change gears, stop the vehicle and with the engine idling, move the lever to the desired gear. Shifting gears with the engine speed above idle or while the vehicle is moving could cause transmission damage.

Always place the transmission in gear with the parking brake locked whenever the vehicle is left unattended.

Maintaining shift linkage adjustment is important to assure proper transmission function. Should you experience any shifting problem see your dealer.



#### WARNING

##### POTENTIAL HAZARD

A loose seat.

##### WHAT CAN HAPPEN

The operator could lose control.

The operator or a passenger could fall if the seat is loose during operation.

##### HOW TO AVOID THE HAZARD

Make sure the seat is securely latched.

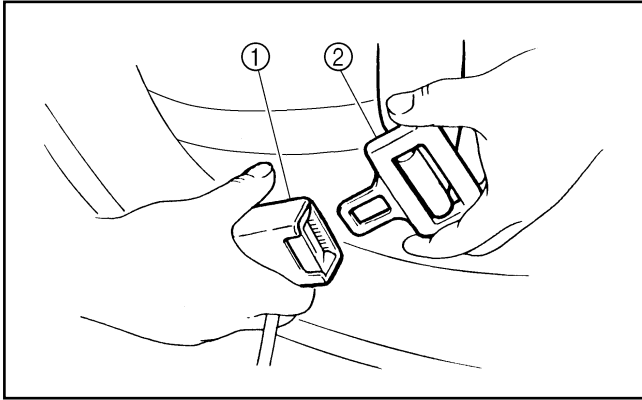
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## 7. CONTROL AND PARTS FUNCTIONS

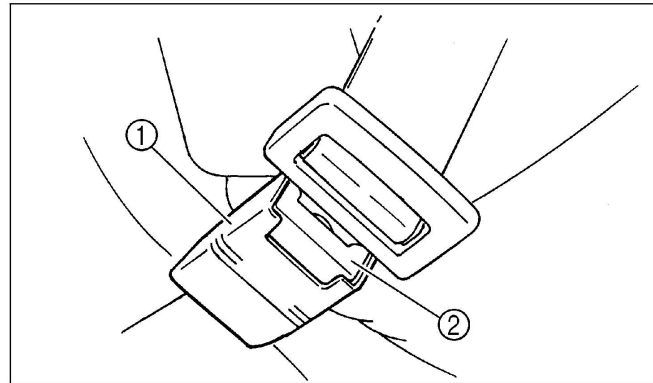
### SEAT BELTS

This vehicle is equipped with five-point seat belts for both the operator and passenger. Always wear the seat belt while riding in the vehicle.



- 1. Buckle
- 2. Latch plate

- 1. Buckle
- 2. Release button



**To Wear The Seat Belt Properly**, do the following:

1. Hold the latch plate as you pull the belt across your lap and chest. Make sure the belt is not twisted and is not caught on any portion of the vehicle, your clothing, or any equipment you are carrying.
2. Push the latch plate into the buckle until it clicks. Pull up on the latch plate to make sure it is secure.
3. Put the lap portion of the belt low on your hips. Push down on the buckle end of the belt as you pull up on the shoulder part so the belt is snug across your hips.
4. Position the shoulder belt over your shoulder and across your chest. The shoulder belt should fit against your chest. If it is loose, pull the belt out all the way and then let it retract.

**To Release The Buckle**, firmly press the release button.

## 7. CONTROL AND PARTS FUNCTIONS

---



### WARNING

#### POTENTIAL HAZARD

Not wearing the seat belt.

Wear the seat belt improperly.

#### WHAT CAN HAPPEN

There is increased risk of being killed or seriously injured in an accident.

#### HOW TO AVOID THE HAZARD

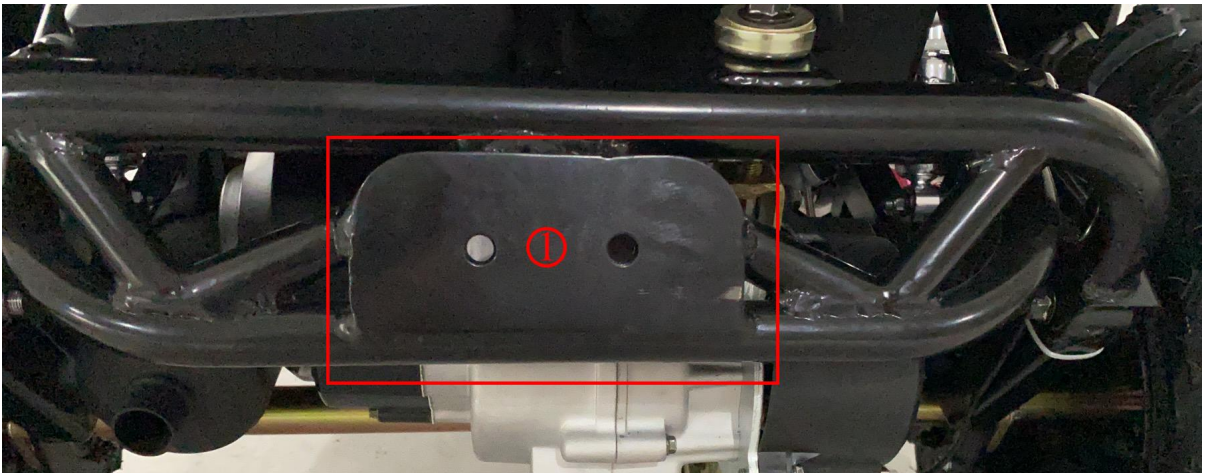
Always wear your seat belt when riding in the vehicle.

Be sure the seat belt is close-fitting across your hips and chest and is latched securely.

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### TRAILER HITCH BRACKET



#### ① Trailer hitch bracket

This vehicle is equipped with a receiver bracket for a standard trailer hitch.

## 7. CONTROL AND PARTS FUNCTIONS

---

### FUEL AND OIL SYSTEM



#### WARNING

Gasoline is highly flammable and explosive under certain conditions.

- Always exercise extreme caution whenever handling gasoline.
  - Always refuel with the engine stopped and outdoors or in a well ventilated area.
  - Do not smoke or allow open flames or sparks in or near the area where refueling is performed or where gasoline is stored.
  - Do not over fill the tank. Do not fill the tank neck.
  - If you get gasoline on your skin or clothing, immediately wash it off with soap and water and change clothing.
  - Never start the engine or let it run in an enclosed area. Gasoline powered engine exhaust fumes are poisonous and can cause loss of consciousness and death in a short time.
- 



#### WARNING

The engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects or other reproductive harm.

---

### Recommended Fuel: Unleaded Gasoline Only



#### CAUTION

Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston rings, as well as to the exhaust system.

Use 91 octane or higher gasoline.

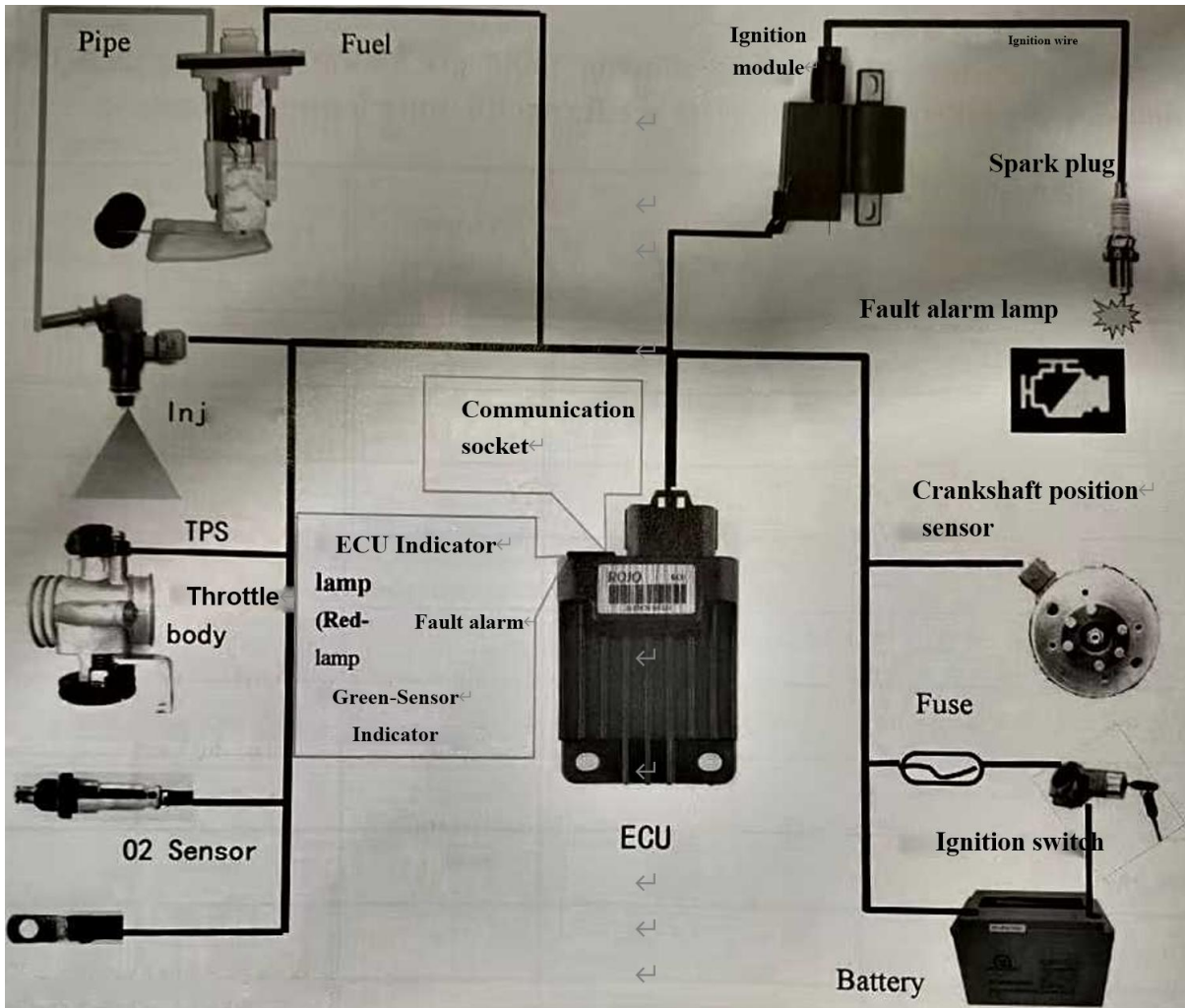
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### Fuel filter

The filter should be replaced by your dealer every 100 hours of operation or annually. Do not attempt to clean the fuel filter.

## 7. CONTROL AND PARTS FUNCTIONS

### EFI SYSTEM



The functions of the EFI are fuel injection management and ignition management, that achieved by the following parts:

- 1、ECU(Electronic control unit), undertakes the task of receiving signals from sensors, making control strategies, and outputting the control signals.    」
- 2、Fuel supply device, composed of fuel pump, pipe and injector The fuel pump is installed in the tank, it pressurizes the fuel to 2.5 bar. The injector is installed in the engine intake pipe, it performs fuel injection timing and amount.
- 3、Ignition device, composed of ignition module, ignition wire and spark plug. The

## **7. CONTROL AND PARTS FUNCTIONS**

ignition module contains DC capacitor igniter and ignition coil, it boosts the 12V battery voltage to more than 15 000 V and transfers it to the spark plug to produce spark discharge.

### **4、Sensors, including:**

(1) O<sub>2</sub> sensor, mounted on the exhaust pipe, its function is detecting the oxygen concentration in the exhaust gas and achieves closed-loop regulation of the fuel mixture concentration. It outputs alternating signal from 0V to 0.9V when in closed-loop regulation state.

(2) Cooler temperature sensor, is installed on the engine cylinder head, it is used to measure the engine temperature. It can affect added fuel injection amount in start-up conditions.

(3) Crankshaft position sensor (TPS), is integrated in the magnetic motor, is used to measure crankshaft

angle signal, which is the time base for injection and ignition timing control.

(4) Throttle position sensor, which is used to measure the throttle valve rotation angle.

### **5、Others, including:**

(1) Throttle body, which controls the intake air amount through the throttle line.

(2) Fault alarm lamp, installed on the dashboard, is used for fault alarm.

(3) Battery, ignition switch and fuse, they undertake the task of power supply to the EFI system.

## 7. CONTROL AND PARTS FUNCTIONS

---

### ANNEX1 DESCRIPTION OF THE FLASHING CODE

flashing code	Fault source~	Fault information	Troubleshooting
2	Idle valve(Note: Applies only to types with idle valves installed)	Open or short circuit	Check the connector, measure the resistance between the idle valve electrodes, If circuit open or shot fault occurs, replace the idle valve.
3	Electromagnetic interference	The ECU is reset by interference	Check according these steps: Whether the spark plug or spark plug cap is with resistance? Whether the connection location of signal ground has been changed? whether the rectifier is
4	Crankshaft position sensor	Open circuit error, or the signal is disturbed	Is the connector is well connected? Is the distance between the wiring harness and the ignition wire is more than 2 cm? Is the spark plug and spark plug cap with resistance?
5	Battery voltage	Voltage is more than 15.6V 15.6V	Replace the rectifier (Note: It must be full wave tvne)
6	O2 Sensor	Oxygen heating circuit is open or short; Oxygen signal is abnormal	Check the O2 sensor connector. If the problem cannot be resolved, try replacing

## 7. CONTROL AND PARTS FUNCTIONS

7	Cooler temperature sensor	The signal is over reasonable range	Check the connector, or replace the sensor
8	Injector	Open or short circuit	Check the connector, try replacing the injector
9	Pump	Open or short circuit	Check the connector, try replacing the fuel pump
10	Ignition output	Open circuit	Check the connector, try replacing the ignition module
11	Throttle position sensor	Throttle calibration error, or TPS output is over reasonable range	Turn on the key switch, re-calibration throttle: Quickly pull the throttle to maximum opening and then release, repeat more than two times. If the problem is not resolved, try replacing the TPS.
12	ECU	Software failure	Firstly eliminate interference factors just as indicated by code 3, then replace the ECU
13	Intake air temperature	The signal is over reasonable range	Replace ECU

If the Fault alarm lamp light, you can pull the throttle twice in one second to make the system into flashing code mode. The code is described in the following table

## 7. CONTROL AND PARTS FUNCTIONS

---

### ANNEX2 DESCRIPTION OF THE ECU INDICATOR LAMP

ECU indicator lamp, located on the ECU

Color	Name	Normal Performance	Abnormal Performance and Notice	Troubleshooting method
Green	sensor indicator lamp	In stop condition, it indicates throttle position. The lamp lights when the throttle is in the maximum or minimum	If the lamp can, t light in the two limit position, throttle calibration error occurs	Re-calibration throttle opening by quickly pull the throttle to maximum opening and then release, repeat more than two times.
		In start condition, it indicates crankshaft	Keep off when start the motor	Check the corresponding connectors, wiring harness
		Indicates the O2 sensor signal when the engine is in closed-loop adjustment, it lights 1-3 times per second after the engine is warming up.	keep off, indicating no O2 signal received	Check the sensor connector, wiring harness , if the fault remains , try replacing the O2 sensor



## 7. CONTROL AND PARTS FUNCTIONS

---

Red	Fault alarm lamp	Same with the fault alarm lamp on the dash board.	If it is always on, pull the throttle twice in one second to make the system into flashing mode.	Refer to Annex 1 "Description of the flashing code"
			If unstable light and dark during engine operation, ECU is likely to get interfered	Eliminate the interference factors referring to flashing code 3 in the Annex 1

## 8. STARTING THE ENGINE

---

### Procedure for Starting a Cold Engine



#### WARNING

Never run an engine in an enclosed area. Carbon monoxide exhaust gas is poisonous and can cause severe injury or death. Always start engines outdoors.



#### WARNING

#### POTENTIAL HAZARD

Freezing control cables in cold weather.

#### WHAT CAN HAPPEN

You could be unable to control the vehicle, which could lead to an accident or collision.

#### HOW TO AVOID THE HAZARD

When riding in cold weather, always make sure all control cables work smoothly before you begin riding.



#### CAUTION

You must allow your vehicle adequate warm up time before operating or engine damage could result.

---

1. Apply the brake.
2. Shift the drive select lever into the neutral position.

**NOTE:** When the drive select lever is in the neutral position, the neutral indicator light should come on. If the neutral indicator light does not come on, ask a dealer to inspect the electric circuit.

The engine can be started in any gear if the brake is applied. However, it is recommended to shift into neutral before starting the engine.

3. With your foot off the accelerator pedal, start the engine by turning the key to "START".

**NOTE:** If the engine fails to start, release the key, and then try starting again. Wait a few seconds before the next attempt. Each cranking

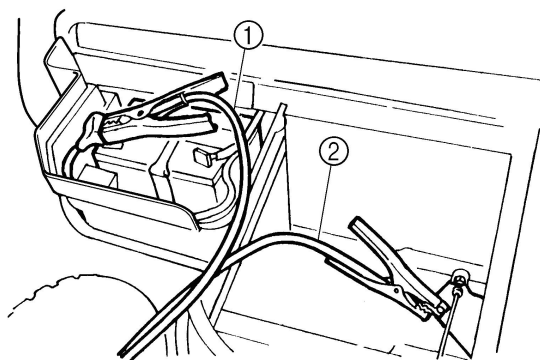
## 8. STARTING THE ENGINE

should be as short as possible to preserve battery energy. Do not crank the engine more than 5 seconds on each attempt.

### Jump-starting

Jump-starting the vehicle should be avoided. The battery should be removed and charged instead. However, if the vehicle must be jump started, proceed as follows.

1. Turn the key to "OFF".
2. Open the hood.
3. Using a charged 12 V battery, connect the positive lead of the jumper cable to the positive terminal of the battery in the vehicle and the other end of the positive lead to the positive terminal of the charged battery.



1. Jumper cable positive lead      2. Jumper cable negative lead

5. Connect the negative lead of the jumper cable to the negative terminal of the charged battery and the other end of the negative lead to an unpainted metal surface of the vehicle.
6. Start the engine.
7. After the engine starts, disconnect the negative lead of the jumper

## 8. STARTING THE ENGINE

---

cable from the vehicle and charged battery, and then disconnect the positive lead of the jumper cable from the charged battery and the battery in the vehicle.

8. Close the hood.



### **WARNING**

If the hood latches are hooked improperly, or the latches and their attachments cannot work properly, the front hood can come off during operation, striking the driver or passenger and causing serious personal injury.

---

## 9. VEHICLE BREAK-IN PERIOD

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The break-in period for your new GO-KART is defined as the first 50 hours of operation. No single action on your part is as important as a proper break-in period. Careful treatment of new engine will result in more efficient performance and longer life for the engine. Perform the following procedures carefully.



### CAUTION

Do not operate at full throttle or high speeds for extended periods during the break-in period. Excessive heat can build up and cause damage to close fitted engine parts.

---

1. Fill fuel tank.
2. Check oil reservoir level indicated on dipstick. Add oil if necessary.
3. Drive slowly at first. Select an area which is open and will give you room to familiarize yourself with vehicle operation and handling.
4. Vary the throttle positions. Do not operate at sustained idle.
5. Perform regular checks on fluid levels, controls and all important areas on the vehicle as outlined earlier on the daily pre-ride inspection checklist found in "4.daily pre-ride inspection".
6. Don't pull loads.
7. Break-in oil and filter. Change at 20 hours or 500 miles/800km.

## 10. RIDING WEAR

---

### SAFE RIDING WEAR

Always wear clothing suitable to the type of riding you are doing. GO-KART riding requires special protective clothing which will make you feel more comfortable and reduce chances of injury.

#### 1. Helmet

Your helmet is the most important piece of protective gear for safe riding. A helmet can prevent a severe head injury.

Select an approved off-road motorcycle -type helmets that fit properly.

#### 2. Eye Protection

A pair of goggles or helmet face should offer the best protection for your eyes.

#### 3. Gloves (off-road style)

#### 4. Boots

A pair of strong over the calf type boots with heels, such as motocross boots.

#### 5. Clothing

To protect your body, long sleeves and pants should always be worn. Riding pants with kneepads, a jersey and shoulder pads provide the best protection.

## 10. RIDING WEAR

---



### WARNING

#### **POTENTIAL HAZARD**

Operate this vehicle without wearing an approved motorcycle helmet, eye protection, and protective clothing.

#### **WHAT CAN HAPPEN**

Operating without an approved motorcycle helmet increases your chances of a severe head injury or death in the event of an accident. Operating without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.

#### **HOW TO AVOID THE HAZARD**

Always wear an approved motorcycle helmet that fits properly. You should also wear: eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket long pants.

---

# 11. CARRYING LOADS

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## CARRYING LOADS

Cargo or a trailer can change the stability and handling of a vehicle. You must use common sense and good judgment when carrying cargo or towing a trailer. Keep the following points in mind:

- Never exceed the weight limits shown. An overloaded vehicle can be unstable.

**MAXIMUM LOADING LIMIT**

Cargo bed: 50 kg (110lb)

Trailer hitch:

Pulling load (total weight of trailer and cargo): 200 kgf (440 lbf)

Tongue weight (vertical weight on trailer hitch point): 11 kgf (24 lbf)

- Load cargo in the cargo bed as close to the center of the vehicle as possible and tie it down using the cargo hooks equipped on the cargo bed.
- Tie down cargo securely in the trailer. Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- Drive more slowly than you would without a load. The more weight you carry, the slower you should go. Although conditions vary, it is good practice not to exceed low range whenever you are carrying heavier loads or when towing a trailer.
- Allow more braking distance. A heavier vehicle takes longer to stop.
- Avoid making sharp turns unless at very slow speeds.



## 11. CARRYING LOADS

---

- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the vehicle.



### **WARNING**

#### **POTENTIAL HAZARD**

Overloading this vehicle or carrying or towing cargo improperly.

#### **WHAT CAN HAPPEN**

Could cause changes in vehicle handling which could lead to an accident.

#### **HOW TO AVOID THE HAZARD**

Never exceed the stated load capacity for this vehicle. Cargo should be properly distributed and securely attached. Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.

---



### **WARNING**

#### **POTENTIAL HAZARD**

Carry a passenger in the cargo bed.

#### **WHAT CAN HAPPEN**

The passenger could fall or be struck by objects in the cargo bed.

#### **HOW TO AVOID THE HAZARD**

Never carry a passenger in the cargo bed. The cargo bed is designed to carry cargo only.

---

## 12. BATTERY

---



### WARNING

Whenever removing the battery, disconnect the negative (black) cable first. When reinstalling the battery, connect the negative (black) cable last. Otherwise, an explosive situation could result causing serious injury or death.

---



### WARNING

Battery electrolyte is poisonous. It contains sulfuric acid. Serious burns can result from contact with skin, eyes or clothing. Antidote:

**External:** Flush with water.

**Internal:** Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

**Eyes:** Flush with water for 15 minutes and get prompt medical attention. Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc. away. Ventilate when charging or using in an enclosed space. Always shield eyes when working near batteries. **KEEP OUT OF REACH OF CHILDREN.**

---

### Battery Removal

1. Disconnect hold down straps holding the electrical box and battery on position.
2. Disconnect the black (negative) battery cable first.
3. Disconnect the red (positive) battery cable next.
4. Lift the battery out of the GO-KART, being careful not to tip it sideways and spill electrolyte.



### CAUTION

If electrolyte spills, immediately wash it off with a solution of one tablespoon baking soda and one cup water to prevent damage to the GO-KART.

---

## 12. BATTERY

---

### Battery Installation and Connections



#### WARNING

To avoid the possibility of explosion, always connect battery cables in the order specified. Red (positive) cable first; black (negative) cable last. An exploding battery can cause serious injury or death.

---



#### WARNING

Battery terminals and connections should be kept free of corrosion. If cleaning is necessary, remove the corrosion with a stiff wire brush. Wash with a solution of one tablespoon baking soda and one cup water. Rinse well with tap water and dry off with clean rags. Coat the terminals with dielectric grease or petroleum jelly. Be careful not to allow cleaning solution or tap water into the battery.

---

1. Set the battery in its holder.
2. First connect and tighten the red (positive) cable.
3. Second connect and tighten the black (negative) cable.
4. Reinstall battery cover and attach the hold down strap.
5. Verify that cables are properly routed.

#### NOTE:

- When your GO-KART is placed in storage for one month or more, the battery should be removed, charged to proper level, and stored in a cool dry place.
- Before reusing, take the battery to your dealer for testing and recharging.

Power plug leads may need to be bent down so that battery cover may be installed.

- When installing a new battery, make certain it is fully charged prior to its initial use. Using a new battery that has not been fully charged can damage the battery resulting in a shorter life of the battery. It can also hinder vehicle performance.

## 12. BATTERY

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### CAUTION

Your GO-KART is equipped with a 9Ah Battery. This may not be sufficient to provide power for optional equipment. When installing optional equipment please upgrade your battery as necessary. See your dealer for the proper battery.

## 13. EXHAUST SYSTEM

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### SYSTEM REGULATION

#### TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED!

**CAUTION:** Exhaust system components are very hot during and after use of GO-KART.

- Do not touch exhaust system components. Serious burns can result.
- Be especially careful when traveling through tall grass. The potential for fire exists

### Spark Arrestor

The exhaust pipe must be periodically purged of accumulated carbon as follows:

1. Remove the arrestor screw ① located on the bottom of the muffler, pull out the arrestor (the mesh) ②.
2. Clean the arrestor or replace it.



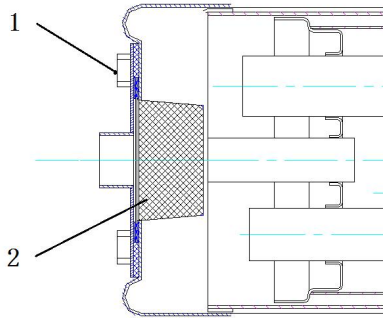
### WARNING

When cleaning the spark arrestor, you must follow the safe guards listed below to avoid serious injury.

- Do not perform this operation immediately after the engine has been run because the exhaust system becomes very hot.
  - Keep combustible materials away from exhaust system. Fire may result.
-

## 13. EXHAUST SYSTEM

---



### Catalyst

There is catalyst inside the muffler on all models .



### WARNING

The engine rpm limiter will work at 7500rpm, this may cause excessive fuel to build in the exhaust, and ignited by the catalyst in the muffler, MAY RESULT IN THE MUFFLERS OVERHEATING AND FIRE RISK.

Always reduce throttle when the engine reach top rpm, avoid the engine popping.

---



### WARNING

The engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects or other reproductive harm.

---

## 14. MAINTENANCE



### CAUTION

#### Plan of Maintenance for GO-KART

To keep the performance good, the motorcycle should be checked and maintained at certain interval. The meanings of capital in following table are:

I: Inspection, including check, clean, lubricate, refuel, repair or replacing if necessary.

A: Inspection, adjusting if necessary    C: Cleaning    R: Replacing    L: Lubricate

Items \ Maintenance period	Odometer (km)						Everyday check before riding
	75 0	300 0	600 0	900 0	1200 0	1500 0	
**Re-seating Valve		I	I	I	I	I	
**Spark Plug		I	R	I	R	I	
**Fuel System		I	I	I	I	I	
*Engine Oil	R	R	R	R	R	R	I
*Valve Gap		A	A	A	A	A	
*Idle Speed		A	A	A	A	A	
*Engine Bolt		I	I	I	I	I	
*Gear Oil		R	R	R	R	R	
*Fuel Filter		R	R	R	R	R	
*Air Cleaner		C	R	C	R	C	
*Drive Belt		IL	IL	IL	IL	IL	
*Cooling System		I	I	I	I	I	
Engine Mount		I	I	I	I	I	
Fuel Line		I	I	I	I	I	
Throttle Operation		I	I	I	I	I	
Brake Shoes/Pad Wear		I	I	I	I	I	
Brake System		I	I	I	I	I	
Brake Light Switch		I	I	I	I	I	
Brake Liquid		I	I	I	I	I	
Clutch		I	I	I	I	I	
Suspension		I	I	I	I	I	
Nuts, Bolts, Fasteners		I	I	I	I	I	
Wheel/Tyre		I	I	I	I	I	
Steering System		I	I	I	I	I	

# 14. MAINTENANCE

## PERIODIC MAINTENANCE RECORD

Use the following chart to record periodic maintenance work:

Maintenance Interval Performed	Servicing Date	Servicing Dealer or Person	Remarks
First 5 Hrs			
10 Hrs			
15 Hrs			
20 Hrs			
25 Hrs			
50 Hrs			
75 Hrs			
100 Hrs			



## 14. MAINTENANCE

The following items should be checked occasionally for tightness; or if they have been loosened for maintenance service.

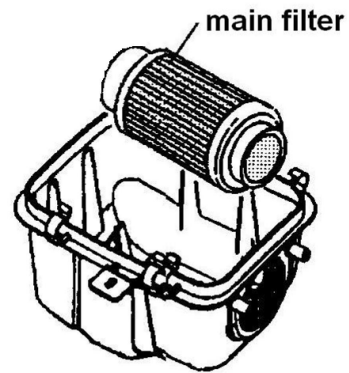
### WHEEL NUT TORQUE SPECIFICATIONS

Bolt Size	Specification	
M10X1.25	50Ft.Lbs	69N.m

**NOTE: All nuts that have a cotter pin installed must be serviced by an authorized Dealer.**

### AIR FILTER SERVICE

1. Lift the cargo bed. (See 7. CONTROL AND PARTS FUNCTIONS in this manual for bed lifting and lowering.)
2. Remove the screws and remove Cover.
3. Loosen clamp and remove Filter.
4. Reinstall pre-filter over main filter. Replace main filter as required.
5. Reinstall filter into air box and tighten clamp. Do not over tighten clamp or filter damage may occur.



## STEERING

### Steering Inspection

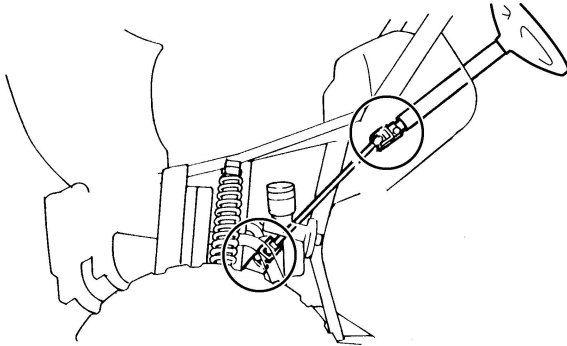
The steering assembly of the machine should be checked periodically for loose nuts and bolts, worn tie rod ends, worn boots, and damage. Checking routing of all cables, hoses, and wiring to be sure the steering mechanism is not restricted or limited. If any found, have your dealer repair them before riding your vehicle.

The steering assembly should be also checked periodically for free operation, steering should move freely through entire range of travel without binding. Park on level ground. Turn the steering wheel right and left. Check for excessive free play, abnormal noises, or a rough feeling. Have an authorized dealer repair as necessary for proper operation.

## 14. MAINTENANCE

Lubricate the pivoting parts.

Recommended lubricant:  
Lithium-soap-based grease



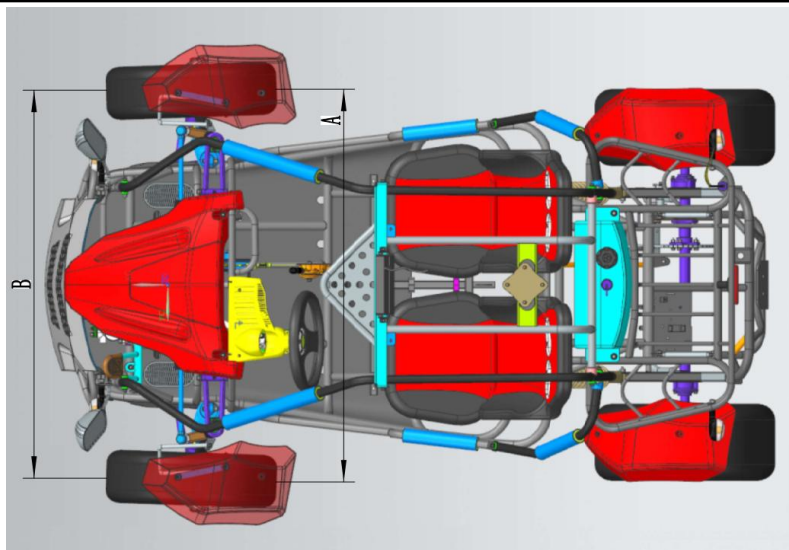
### TOE ALIGNMENT CHECK



#### WARNING

Do not attempt to adjust the tie rod for toe alignment. Severe injury or death can result from improper adjustment.

Contact your dealer. He/she has the training and tools to Make these adjustment.



The front wheels should be “toe-in” from 1/8” to 1/4”. To check for alignment, measure distance A and B between the centerline of the

## 14. MAINTENANCE

wheels. The proper toe-in dimension A should be  $1/8'' - 1/4''$  greater than dimension B.

### BRAKES

#### Front brake

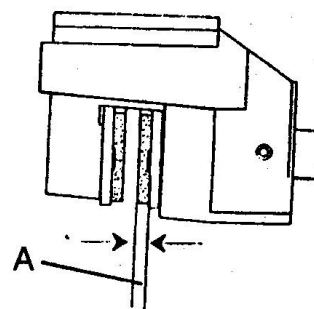


#### WARNING

Once a bottle of brake fluid is opened, use what is necessary and discard the rest. Do not store or use a partial bottle of brake fluid. Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. This causes the boiling temperature of the brake fluid to drop, which can lead to early brake fade and the possibility of serious injury.

The front brake is hydraulic disc brakes which is depressing the brake pedal. These brakes are self-adjusting and require no adjustment. The following checks are recommended to keep the brake system in good operating condition. How often they need checking depends upon the type of driving that has been done.

- Keep fluid level in the master cylinder reservoirs as described see "7.Control and part functions". Normal functioning of the diaphragm is to extend into the reservoir as fluid level drops. If the fluid level is low and the diaphragm is not extended, a leak is indicated and the diaphragm should be replaced. Always fill the reservoir as indicated whenever the cover is loosened or removed to insure proper diaphragm operation. Use DOT 3 brake fluid.
- Check brake system for fluid leaks.
- Check brake for excessive travel or spongy feel.
- Check friction pads for wear, damage and loosened.
- Check security and surface condition of the disc.
- Pads should be changed when friction material is worn to  $3/64''$  (1mm). (A)



#### Rear Brake

## 14. MAINTENANCE

- The rear brake is a hydraulic disc type brake which is activated by the same pedal which activates the front brake system is self-adjusting and requires no maintenance other than periodic checks of the pads for wear
- Pads should be changed when the friction material is worn to 3/64"(1mm).
- Inspect the brake disc and pad wear surface for excessive wear.

### Checking the brake fluid level

Insufficient brake fluid may let air enter the brake system, possibly causing the brakes to become ineffective. Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage. The brake fluid reservoir is located under the hood.



- When checking the fluid level, make sure the top of the brake fluid reservoir is level.
- Use only the recommended quality brake fluid. Otherwise, the rubber seals may deteriorate, causing leakage and poor braking performance.

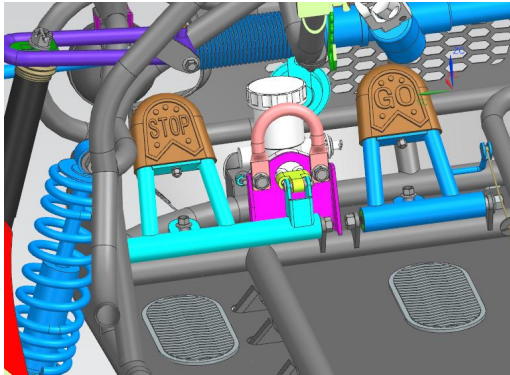
Recommended brake fluid: DOT 3
--------------------------------

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance.
- Be careful that water does not enter the brake fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- Have an authorized dealer inspect the brake system if the brake fluid level goes down.

### Brake pedal and accelerator pedal lubrication

## 14. MAINTENANCE

Lubricate the pivoting parts.



Recommended lubricant:  
Lithium-soap-based grease  
(all-purpose grease)

### PARKING BRAKE

#### Checking

Although the parking brake has been adjusted at the factory, the brake should be checked for proper operation. The mechanical brake must be maintained to be fully functional.

1. With the engine off, apply the parking brake lever and attempt to move the GO-KART.
2. If the rear wheels are locked, it is adjusted properly.
3. If the wheels are not locked, it must be adjusted.
4. The maximum free play is equal to one click of the parking brake lever. If necessary, adjust the free play as follows.

#### Adjusting

**To adjust (set up) the mechanical parking brake, use the following procedure.**

**Note:** The adjusting on the caliper is for the wear out of the pads.

1. With the engine off, loosen the adjuster on the lever.
2. Loosen the jam nut of the adjuster on the caliper.
3. Turn the adjuster (bolt) CW (clockwise) by hand till the pad touch the brake disc, turn the adjuster bolt CCW (counterclockwise) by 1/4 to one turn for 10 to 20mm free play at the end of the parking lever.
4. Tighten the jam nuts securely against the adjusters.
5. Make sure the rear wheels turns freely without dragging.
6. Turn the adjuster (the one on the lever) and apply the lever. While adjusting, it is important you apply the lever back and forth for operation, free play and the locking of the parking position.
7. Make sure the rear wheels turns freely without dragging and parking brake works properly.

## 14. MAINTENANCE

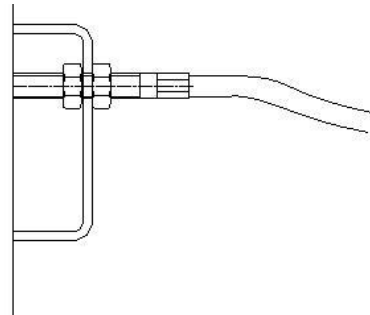


### CAUTION

Don't over tighten the adjustor. The maximum free play is equal to one click of the parking brake lever.

8. Field test for parking. It must be capable of holding the laden GO-KART stationary on an 18% up and down gradient.

A temporary adjusting can also be done to the brake cable on the parking lever side by turn the adjuster (nut) directly. But the adjust range is limited. Always do the **procedure 1 to 8** when necessary.



### Parking Brake Indicator (light) Switch Adjustment

The parking indicator switch, which is activated by the parking lever, is properly adjusted when the indicator light comes on just before braking takes effect. If necessary, adjust the parking indicator switch as follows.

1. Open the hood. (See 7. CONTROL AND PARTS FUNCTIONS in this manual for hood opening and closing procedures.)
2. Turn the adjusting nut in or out to make the light come on properly, then lock the lock nut .  
(all-purpose grease)

### rattle Free Play Inspection

1. Apply the parking brake.

## 14. MAINTENANCE

2. Put gear in Neutral position.
3. Start the engine, and warm it up thoroughly.
4. Measure the distance the throttle pedal moves before the engine begins to pick up seep.
5. Throttle free play should be 1/16" to 1/8" (1.5-3mm).

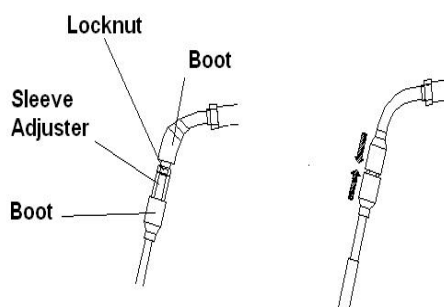
### Throttle Free Play Adjustment

Throttle cable free play is adjusted at the cable, under the passenger seat.

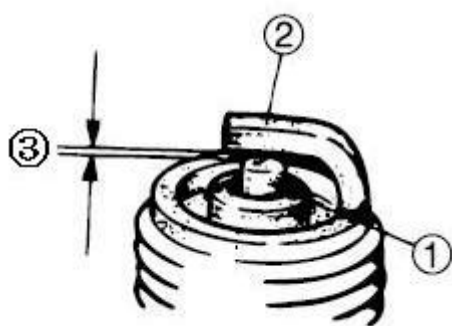
1. Slide the boots off. Loosen adjuster locknut.
2. Turn adjuster until 1/16" to 1/8" (1.5 to 3mm) free play is achieved at the throttle pedal.

**NOTE:** While adjusting free play, it is important you flip the throttle pedal back and forth.

3. Tighten locknut and slide boots over cable adjuster.



## SPARK PLUGS



Standard spark plug

A7TC

③ Gap: 0.6-0.8mm

Inspect:

- Insulator ①  
Abnormal color: Replace.  
Normal color is a medium-To-light tan color.
- Electrode ②  
Wear/damage: Replace. Clean:
- Spark plug (with spark plug cleaner or wire brush) Measure: Spark plug gap ③ Out of specification: Adjust gap.

### Spark Plug Removal and Replacement



**WARNING**

## 14. MAINTENANCE

Never attempt to remove a spark plug while the engine is warm. The exhaust system or engine could burn you causing severe injury.

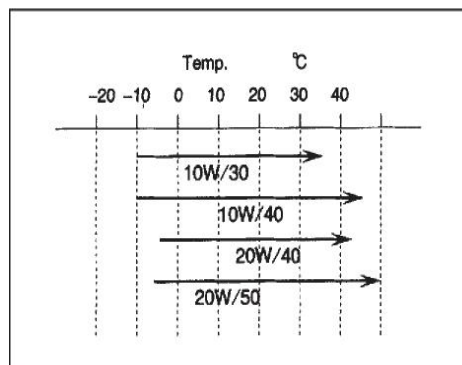
- Remove the spark plug by rotating counterclockwise.
- Reverse the procedure for spark plug installation.
- Torque to 17ft.lbs (23N.m).

### OIL AND FILTER CHANGE

#### Recommended Engine Oil

Refer to the chart for selection of the oils suited to the atmospheric temperature.

API Standard: API SG grade.



#### CAUTION

- Be sure no foreign material enters the crankcase.
- Do not put in any chemical additives or use oils with a grade of CD or higher.
- Be sure not to use oils labeled "ENERGY CONSERVING II" or higher. Engine oil also lubricates the clutch and additives could cause clutch slippage.

The recommended oil change interval is 30 hours, or every 3 months, whichever comes first. Suggested break in oil change is at 20 hours, or one month, whichever comes first. Severe use operation requires more frequent service. Severe use includes continuous duty in dusty or wet conditions, and cold weather riding.

**NOTE:** Severe use cold weather riding is all riding below 10°F(-12°C), and riding between 10°F(-12°C) and 30°F(0°C) when most trips are slow speed and less than 5 mph (8km/h). Be sure to change the oil filter whenever changing oil.



#### CAUTION



## 14. MAINTENANCE

Oil may be hot. Do not allow hot oil to come into contact with skin as severe burns may result.

### Engine Oil Level Inspection

1. Place vehicle on a level surface;
2. Start the engine and let it warm up for a few minutes;
3. Turn off the engine.

#### NOTE:

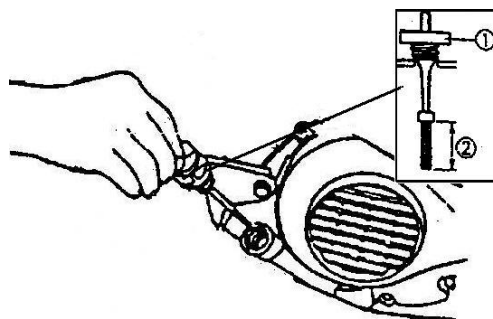
Wait a few minutes until the oil settles before inspecting the oil level.

4. Inspect: (Do not thread dipstick in).

#### ●Engine oil level

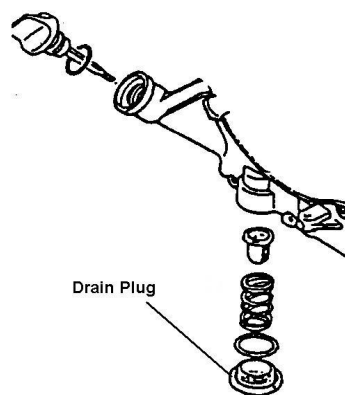
Oil level should be between maximum and minimum marks "2"

Oil level is below the minimum mark, Add oil up to the proper level.



### Engine Oil Replacement

1. Place vehicle on a level surface;
2. Run engine two or three minutes until warm, Stop engine;
3. Clean area around drain plug;
4. Place a drain pan beneath engine crankcase.
5. Remove:
  - Oil filler plug
  - Drain plug
  - Compression spring
  - Oil strainer
  - O-ring
6. Allow oil to drain completely;
7. Install:
  - O-ring , New
  - Compression spring
  - Oil strainer , New, if necessary
  - Drain plug , and torque to 32N.m;
8. Use the funnel, Fill Crank case with 1.4L engine oil, refer to **Recommended Engine Oil**;
9. Check the oil level. refer to **Engine Oil Level Inspection**;



## 14. MAINTENANCE

10. Reinstall the Oil filler plug.

### Transmission Lubrication



#### CAUTION

Be sure no foreign material enters the transmission case.

### Transmission Oil Changing Procedure

1. Remove transmission drain plug located on the bottom and drain the oil. Catch and discard used oil properly.
2. Clean and reinstall the drain plug torque to 14 ft.lbs. (20Nm)
3. Add the correct amount of SAE 80W/90GL5 Lubricant until oil reaches the bottom of the filler hole
4. Check for leaks.

## WHEELS AND TIRES



#### WARNING

Operating your GO-KART with worn tires, improperly inflated tires, non-standard tires or improperly installed tire will affect vehicle handling which could cause an accident resulting in serious injury or death. Follow the safeguards listed below to prevent this type of situation.

### Important Safeguards

- Maintain proper tire pressure according to charts below. Improper tire inflation may affect GO-KART maneuverability.
- Do not use improper tires. The use of non-standard size or type tires may affect GO-KART handling.
- Make certain the wheels are installed properly.
- If wheels are improperly installed it could affect vehicle handling and tire wear.

Tire Pressure

## 14. MAINTENANCE

front	rear
48kPa/7SI	48kPa/7PSI

### Wheel Removal Procedure

1. Stop the engine, place the transmission in gear and lock the parking brake.
2. Loosen the wheel nuts slightly.
3. Elevate the side of the vehicle by placing a suitable stand under the footrest frame.
4. Remove the wheel nuts and remove the wheel.

### Wheel Installation

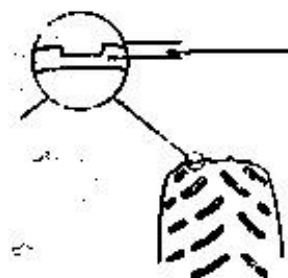
1. With the transmission in gear and the parking brake locked, place the wheel in the correct position on the wheel hub. Be sure the valve stem is toward the outside and rotation arrows on the tire point toward forward rotation.
2. Attach the wheel nuts tighten them.
3. Lower the vehicle to the ground.
4. Securely tighten the wheel nuts according to the chart found in **"14.MAINTENANCE/ Wheel Nut Torque"**.

### Tire Inspection

When replacing a tire always use original equipment size and type.

### Tire Tread Depth

Always replace tires when tread depth is worn to 1/8" (3mm) or less. Please refer to your Owner's Manual for tire specifications.



## CLEANING YOUR GO-KART

Keeping your GO-KART clean will extend the life of various

## 14. MAINTENANCE

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components.

### Washing

Never use a high pressure type car wash system, it can damage to the wheel bearings, transmission seals, body panels, brakes and warning labels, and water might enter the engine or exhaust system.

The best and safest way to clean your GO-KART is with a garden hose and a pail of mild soap water. Use a professional type washing mitten, cleaning the upper body first and lower parts last. Rinse with water frequently and dry with a cloth to prevent water spots.

**NOTE:** If warning labels are damaged, contact your dealer for replacement.

### Waxing

Your GO-KART can be waxed with any non-abrasive automotive paste wax. Avoid the use of harsh cleaners since they can scratch the body finish.



### CAUTION

Certain products, including insect repellants and chemicals, will damage plastic surfaces. Care must be taken when using these products.

---

### STORAGE TIPS



### CAUTION

Do not start the engine during the storage period. This will disturb the protective film created by fogging.

**Cleaning**——Clean the GO-KART thoroughly.

**Fuel**——drain the carburetor bowl completely.

**Oil Add and Filter Change**——Stop the engine and change oil and filter.

**Air Filter/Air Box**——Inspect and clean or replace the pre-cleaner and air filter. Clean the air box and the sediment tube.

**Inspect All Fluid Levels**——Inspect the following fluid levels and change if necessary: transmission; brake fluid (change every two years or as required if fluid looks dark or contaminated).

## 14. MAINTENANCE

**Fog the Engine**——Spray a light oil into the cylinder through the spark plug hole.

**Check and Lubricate Cables/Grease**——Inspect all cables and lubricate.

**Battery Maintenance**——Remove the battery and add electrolyte as required to the proper level. Do not use tap water which may contain minerals that reduce battery life. Apply Dielectric Grease to the terminal bolts and terminals. Charge the battery.

**Storage Area/Covers**——Set tire pressure and safely support the GO-KART with the tires 1-2”(25-50mm) off the ground. Be sure the storage area is well ventilated. Cover the machine with a GO-KART cover.

**NOTE:** Do not use plastic or coated materials. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

### TRANSPORTING

Whenever the GO-KART is to be transported the following measures should be taken.

1. Turn off the engine and remove the key.
2. Be certain the fuel cap, oil cap, and seat are installed correctly.
3. Always tie the frame of the GO-KART to the transporting with securely using suitable straps or rope.
4. Always place the transmission in gear and lock the parking brake.

## 15. TROUBLESHOOTING

---

### LOW BATTERY

Possible Cause	Solutions
Starting a faulty engine for long time.	See "8.STARTING THE ENGINE" And check the fuel/air/ ignition/ compression system.
Let the main switch (key) on while parking the GO-KART.	When stopping the engine, turn off the main switch (key) off at once.



### WARNING

This GO-KART equipped with an electric start system. If the battery is under charging, the GO-KART will not run.

### NOTE:

The following troubleshooting does not cover all the possible causes of troubles. It should be helpful, however, as a guide to troubleshooting. Refer to the relative procedure in this manual for inspection, adjustment and replacement of parts. Adjustment and replacement must be done by your dealer.

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## 15. TROUBLESHOOTING

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### STARTING FAILURE/ HARD STARTING

#### FUEL SYSTEM

##### Fuel tank

- Empty
- Clogged fuel tank breather hole
- Fuel pump is clogged
- Deteriorated fuel or fuel containing water or foreign material

##### Electric fuel injection

- ECU failure or wiring faulty element
- Improper air cleaner setting
- Throttle position sensor failure
- EFI relay does not work

##### Air cleaner

- Clogged air cleaner
- Nozzle clogging or failure

#### COMPRESSION SYSTEM

##### Cylinder and cylinder head

- Loose spark plug valve clearance
- Loose cylinder head
- Broken cylinder head gasket valve and vale
- Broken cylinder gasket
- Worn, damaged or seized cylinder

##### Piston and Piston ring

- Worn piston
- Worn fatigued or broken piston ring

##### Valve system

- Improperly adjusted
- Improperly sealed valve
- Improperly contacted seat
- Improper valve timing
- Broken valve spring
- Seized valve

## 15. TROUBLESHOOTING

---

- Seized piston ring
  - Seized or damaged piston
- 

### IGNITION SYSTEM

#### Battery

- Improperly charged battery
- Faulty battery

#### Fuse

key

- Burnt out, improper connection

#### Spark plug

- Improper plug gap
- Worn electrodes
- Wire between terminals broken
- Improper heat range
- Faulty spark plug cap

#### Ignition coil

- Broken or shorted primary/secondary coil
- Faulty high tension cord
- Broken ignition coil body

#### Ignition system

- Faulty ignition unit
- Faulty pick up coil
  - Broken magneto woodruff

#### Switch

- Faulty main switch
- Faulty brake switch

#### Wiring

- Loose battery terminal
  - Loose coupler connection
  - Improperly grounded
  - Broken wire-harness
- 

### POOR IDLE SPEED PERFORMANCE

#### EFI

- Loose or clogged pilot jet element
- Trigger coil gap inappropriate
- Ignition loop cable failure
- Improperly adjusted idle speed

#### Air cleaner

- Clogged air cleaner

#### Ignition system

- Faulty spark plug
- Faulty high tension cord



## 15. TROUBLESHOOTING

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- |  |                       |
|--|-----------------------|
| (Pilot screw), (Throttle stop screw)         | •Faulty ignition unit |
| •Improperly adjusted throttle cable          | •Faulty pick up coil  |
| • Intake pressure temperature sensor failure | •Faulty ignition coil |

### Auto choke

- Faulty starter plunger
- Improper wax operation

### Valve system

- Improperly adjusted
  - valve clearance
- 

## POOR MIDDLE AND HIGH SPEED PERFORMANCE

### EFI

- Improperly adjusted fuel level element
- Clogged main nozzle
- Clogged or loose pilot jet

### Air cleaner

- Clogged air cleaner
- 

## POOR SPEED PERFORMANCE

### Ignition system

- Dirty spark plug
- Improper heat range
- Faulty ignition unit
- Faulty pick up coil

### Fuel system

- Clogged fuel tank breather hole clearance
- Clogged air cleaner element and valve seat

### Compression system

- Worn cylinder
- Worn or seized piston ring
- Cylinder head gasket broken
- Cylinder gasket broken
- Carbon deposit buildup
- Improper adjusted valve
- Improper contacted valve

## 15. TROUBLESHOOTING

---

- Clogged jet
- Improperly adjusted fuel level

### SLIPPING

over Oil level)

- Faulty valve timing

### Clutch

- Refer to "CLUTCH

/DRAGGING" section

### Engine oil

- Improper oil level (low or

### Ignition system

- Faulty spark plug
- Faulty high tension cord
- Faulty ignition unit
- Faulty pick up coil
- Faulty ignition coil

### Valve system

- Improperly adjusted valve

clearance

### OVER HEATING

#### Ignition system

- Improperly spark plug gap
- Improper spark plug heat rang
- Faulty ignition unit

#### Fuel system

- Improper EFI setting
- Improper fuel level adjustment
- Clogged air cleaner element

### OVER-COOLING

#### Cooling system

- Faulty thermostat
- Faulty thermo-switch

## 15. TROUBLESHOOTING

---

### Compression system

- Heavy carbon deposit build-up
- Improperly adjusted valve timing
- Improperly adjusted valve clearance

### Engine oil

- Incorrect engine oil level
- Improper engine oil quality (High viscosity)
- Low engine oil quality

### Brakes

- Dragging brake

### FAULTY CLUTCH

#### WHEN ENGINE RUN, GO-KART DOES NOT RUN

#### V-belt

#### POOR SPEED

#### PERFORMANCE

- Worn/bent/slipping

#### V-belt

- Worn
- Oil V-belt

#### Cam, slider

- Worn/damaged

#### Compression spring

- Damaged

#### Roller weight

- Worn/improper operation  
primary/secondary/sheave
- Worn

#### Gears

- Damaged

### CLUTCH SLIPPING

#### Clutch weight spring

#### Position

- Worn/loose

#### Clutch shoe

- Worn/ damaged

#### Primary sliding sheave

### CVT SYSTEM

#### Incorrect Primary Clutch

- Incorrect engine mount  
(see 13. CVT system)

## 15. TROUBLESHOOTING

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- Seized

### POOR STARTING BRAKING

#### PERFORMANCE

##### V-belt

- Slipping/oily V-belt

##### Primary sliding sheave

- Improper operation
- Damaged

##### compressing spring

- Worn/loose

##### Secondary sliding sheave

- Improper operation
- Worn guide pin grove
- Worn guide pin

##### Clutch shoe

- Worn/ bent

### FAULTY BRAKE POOR

#### EFFECT

- Worn front hub bearing
- Worn brake pad
- Worn brake disc
- Air in brake fluid
- Leaking brake fluid
- Faulty master cylinder kit
- Faulty caliper seal kit
- Loose union bolt
- Broken brake hose
- Oil or greasy brake pad
- Oil or greasy brake disc

## 16. SPECIFICATION

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Dimensions & Capacities		
L X W X H	2250x1600x1550mm	88.6x 63 x61 in
Wheel Base	1530mm	60.2 in
Ground Clearance	152mm	6 in
Fuel capacity	8.5 L	2.25 US gal
Dry Weight	220 kg	485 lb
Cargo Bed Maximum load limit	50 kg	110 lb
Load Capacity (Combined Rider& Payload)	200kg	441 lb
Drive System		
Drive System	CVT	
Front Tire	AT21x7-10 / AT19×7-8	
Rear Tire	AT22x10-10	
Tire Pressure(front)	100 kPa	14 PSI
Tire Pressure(rear)	100 kPa	14 PSI
Brake System		
Brake	Front Brake	Dual Hydraulic Disc
	Rear Brake	Single Hydraulic Disc
	Operation	Foot
Parking Brake	Single Hydraulic Disc	
Suspension		
Front	Double A-arm	
Rear	Trailing-Arm	
shock absorber	Coil spring/oil damper	

Engine	
Engine Type	4Stroke, Single Cylinder, SOHC
Bore x Stroke	61mmx57.8mm
Displacement	168.9cc

## 16. SPECIFICATION

Starter System	Electric Starter
Engine Cooling	Wind-Cooled
Ignitions	EFI

17. WIRING DIAGRAM

