

**Mokart Indoor Karting  
"Go Kart"  
Non-Kiddie**

# **MOKART ONE**

## **OPERATIONAL MANUAL**

MoKart One is divided into four distinct areas:

The Garage Area  
The Track Area  
The Registration, Gear and Gallery Area  
The Administrative Areas

The only areas open to the public are the registration, gear and gallery areas. The track areas are open only to a limited number of drivers at a time. All other areas are for facility staff exclusively.

The following manual describes the facility's systems and their operation. It will be continually updated and improved as experience is gained and improvements made.

*opman.doc (2/2/98)*

### **The Garage Area**

The garage area is where all karts are maintained, serviced and fueled. All applicable fire codes and waste disposal regulations are to be followed at all times. The garage area is strictly off limits to the customer and is under the direct supervision of the full-time crew chief (Chief Mechanic).

### **Heating Ventilation and Air-conditioning System (HVAC)**

The HVAC is an integral part of the MoKart system. All controls are located in the Race Control Tower. The fresh air exchange unit must be on at all times during operation. The A/C fans must be on at all times during operation. The A/C heating/cooling compressors may be adjusted at any time to control inside temperature and humidity. If at any time any of the A/C, air exchange, or ventilation systems malfunction or lose power, karting operations must cease immediately until the problem is fixed. Warning lights for the fresh air unit and ventilation fans indicate immediately if one or the other is not functioning properly.

Exhaust gas will be monitored by meters on a regular basis during operations to ensure proper air quality at all times.

## **CONSTRUCTION OF THE TRACK**

### **Track Surface**

The track surface is important for safety, fun and image. The surface of the track must be as level as possible.

The main goal to the track surface is that the customer has a smooth ride in which he/she enjoys the feeling of power drifting around the corners. The slip grip surface will increase the driver's feeling of speed and increase the enjoyment of trying to master power drifting. This effect will also reduce the impact that may be caused when a speeding kart collides with a standing kart or when a kart slides into a barrier. The karts will be able to slide further. Caution should be taken that the track surface does not build up with rubber from the tires.

Race personnel must ensure that the course is clear of all objects at all times. The track will be properly cleaned and inspected on a daily basis prior to operations and if necessary during operations.

### **Circuit Layout**

The circuit layouts (attached) are designed to offer challenging driving to the customer. If most customers can master the track in a short while because the course layout has no difficult sections then customers will get bored.

The course layout should have the following dimensions:

- As wide as possible, minimal 15 feet and maximum 25 feet.
- The normal lap time should be no less than 18 seconds.
- The start/finish line should be placed so that the audience will have a view of the starting light.
- The entrance and exit to the pit lane must be located at points of the course where entrance to and/or exit from the pit area does not interfere (or as little as possible) with the traffic on the course.
- Customers or drivers are strictly prohibited from being on the track or crossing the track.
- Entrance to the pit area must be slow.

### **Barrier System**

Stacks of tires are placed on both sides of track. The stacks of tires are continually connected together so that the sides of the track are fully enclosed (with the exception of the entrance/exit to the pit area). There is no way that a driver can go through an opening in the form of a short cut or impossible for him/her to accidentally enter the track driving the wrong way.

The tire stack should at least be two tires high. The tires of each stack are fastened in at least four places. Nylon banding connects each individual tire stack. Plastic piping is bolted to each stack in two places with bolts, nuts and washers. The plastic pipe is normal watering piping which is 3 inches in diameter with a wall thickness of a fifth of an inch. The piping is positioned just above the floor to deflect any potential upward motion of a kart. Building support columns are cushioned with high density foam.

As built and tested the barriers can withstand the worst case crash scenario and not rip apart.

### Caution Light System and Timing System

The timing system cable or sensor is placed at the start/finish line. Yellow lights (or warning lights) are placed before each curve or combination of curves. The lights are visible to drivers on the track. All entrances to the track are controlled by traffic lights. All safety warning lights are controlled by the Race Control Tower.

All electrical cables in the track area for the track lighting system are professionally installed to ensure effective function and to ensure no danger for drivers or other customers. Regular inspection of the cables and timing system will take place to ensure no loose connections. Testing will be done daily to prevent damage and for repair.

### General Track Safety

Fire code regulations are to be observed at all times.

### Registration

The customer will purchase practice time at the registration desk. At this time identification is checked for age and the customer's name and address is recorded. Before any purchase is made **the customer must sign the Release and Waiver of Liability and Indemnity Agreement** form which once signed is good for the whole day. Management must ensure that all customers have signed the Release form before they drive. This is confirmed at each following step in the process; gear room and pit lane.

The registrar will assist the customer in orientating them to what the next procedures are ( where do they go from there, if they have to wait where and how will they be notified, where is the helmet rack, where is the training film etc.).

### Gear

Following registration the customer proceeds to the gear room and is issued protective overalls, a clean cotton balaclava (head sock) and optional gloves. He is instructed how to put the gear on and to watch the instructional video.

### Instructional Video

While the customer is waiting in the waiting area and putting on his gear, he/she must watch the instructional video tape. It is important that all customers that are waiting are able to view the tape. The gear room staff will check that the tape is always running.

### Helmets

Helmets are ordered and clearly marked on the rack according to various sizes. The rack and helmets will be cleaned on a daily basis. Helmets are issued at the pit entrance at the time that the customer is assigned a kart. Customers are instructed to return the helmet to the rack following their run and how to properly use the helmet.

All helmets are inspected for damage or missing parts once a day. The helmets are to be disinfected on a regular bases. The normal life of a helmet should be 6 months. The customers must have the feeling that the helmet is almost new.

### Pit Area

Waiting in the pit area is strictly prohibited.

The pit area is to be entered only under the explicit direction of the MoKart pit staff.

Smoking is strictly prohibited.

The risk of an accident in the pit area is very high due to the fact that karts are entering and leaving this area. Therefore, there should be as few as possible persons in the pit area at all times.

## SAFETY MEASURES

### All customers must wear a helmet

Special attention will be given to new customers advising them on the right size of helmet and the customer will be instructed on how to fasten and unfasten the helmet. Pit staff must inspect all customers before they drive out to ensure that the helmet is properly fastened and visor is down.

### Smoking is Strictly Prohibited in the Pit Area

Signs are posted that inform all customers of this rule.

### Drive Slowly in Pit Area

The pit area is one of the highest risk areas for injury to occur and therefore this rule must be enforced at all times.

### Race Control Supervisor has the right to Disqualify

The decision of the race control is definitive and irrevocable. Race Control has the authority in cases of serious forms of negligence of the rules or misconduct (such as reckless driving) to stop a driver by remote control on an individual kart basis or all of them on a given track at once. Race Control has the right to eliminate drivers who are either having difficulty due to inexperience or when it is observed that there is a question of a kart mechanical problem. In these cases, a customer has no claim for the reimbursement of fees.

### Rules of the Race Track and Flag Signals

When a person purchases a ticket or participates in any driving event he/she is to understand, accept and adhere to the following information, explanations and rules.

**If you have any questions please feel free to ask any of the MoKart staff.**

The participant of a driving event to include all training is fully under his/her own responsibility.

Driving a kart is only permitted once a person has signed a Release and Waiver of Liability and Indemnity Agreement form. The person signing exempts MoKart One, L.C., the operator and the employees of any liability.

**This form of motor sport and entertainment is great fun and is full of fascination but it also involves dangers that each person must be aware of.**

The track layout, barriers and traffic signal systems are built with safety in mind. All risks can be reduced as long as all participants adhere to the rules and regulations as well as drive in a safe manner. For these reasons the track rules and regulations must be adhered to at all times. The operator of the track or designated personnel have the right to take disciplinary actions against offenders. Disciplinary actions will be enforced for more serious offenses and reckless behavior in which the offender may be directed to leave the premises.

### Rules:

1. Each participant must have signed an **Exemption of Liability** form, purchased practice time and viewed the instructional video tape prior to being permitted to drive.
2. All participants must wear a protective **helmet** which is free of charge.
3. **Protective overalls** must be worn giving protection from soiled or damaged personal clothing. In the case that personal clothing is soiled or damaged, the operators cannot be held liable.
4. It is strictly prohibited for a driver to step onto the track or to step out of the kart while on the track.
5. **A driver must always be prepared to slow down or stop** when necessary in time and without endangering or hindering other drivers. Beginners should always start slowly to get a feeling for handling the kart before driving faster. Whether a beginner or experienced, all drivers must drive at a speed in which they are always in full control of the kart.
6. The track personnel have the right to disqualify or remove a driver at any time.
7. The track is to be driven as designated in only one direction.
8. It is forbidden to hinder, cut off or bump other karts on the track. Unless otherwise directed, parking or stopping on the track is not allowed.
9. Drivers are forbidden to drive under the influence of alcohol or drugs.
10. If a technical problem is discovered on the kart or if there is any other problem the driver should drive immediately into the pit. The driver should raise his/her arm on track signaling other drivers that there is a problem. If it is not possible for the driver to reach the pit and he/she comes to a stop they are to remain seated until track personnel gives further directions.
11. **The motor will be started by track personnel only.**

## Explanation of Flagging and Traffic Lights

<b>green</b> Flag / Light	Free to drive or Start
<b>yellow</b> Flag / Light	Warning be prepared to slow down and/or to stop. Passing not allowed Stay slow until the danger area is past
<b>Red</b> flag / Light	End of training Enter the pit stop immediately
<b>Blue</b> Flag	A driver is directly behind allow driver to pass
<b>Furled Black</b> Flag Pointed at offender and Furled	Warning of penalty reckless behavior
<b>Waived Black</b> Flag	Report to the pits immediately

**Directions from track personnel must be followed at all times.**

### Miscellaneous

A maintenance record will be kept on all karts and motors. All are numbered to ensure regular control for required oil change and other service and maintenance. Testing lap times should be dated and registered to insure equal preparation among all karts..

Each morning all the karts will go through a major inspection and all damage repaired prior to that kart being used.

The garage area and the pit area will be kept clean and orderly with daily cleaning. There will be no garbage or oil on the floors.

The mechanics will always be dressed in clean overalls.

The audience area must be cleaned daily and the entire track at least once a week. All TV monitors, computers, etc. will be cleaned daily. The helmets are to be washed, polished and disinfected weekly. The visor of the helmet will be cleaned with glass cleaner daily.

The driver overalls will be cleaned after each individual use.

### **MoKart tracks must operate by the following criteria:**

Each driver will be inspected for safety prior to leaving the pit area:

Helmet is properly on and fastened.

Long scarves and loose clothing must be removed.

Long hair must be put inside the balaclava or tucked inside the overalls.

Proper shoes (no sandals or open toed shoes allowed).

If required, the pedal extension should be installed.

All participants will be reminded to remember their kart number so they can see what their lap time is on the scoreboard. Once they have finished their ride they are to return to the waiting area and not stand around in the pit area. They can receive a print out of the laps upon request to the pit staff.

Once all customers who are finished driving have entered the pit area, exited the karts and left the pit area, then the next group will be given a green light and directed out onto the track. The new group should be directed out onto the track in single file to avoid any tight premature stop and go from unfamiliar or inexperienced drivers that could cause an accident even before they are on the track.

**Attention: Motors must be off at all times. Only when a person is sitting in the karts will the motor be started.**

Leaving the motor on while a customer is getting in or out of the kart can be dangerous. The danger can occur when a customer accidentally presses on the gas pedal causing the kart to accelerate uncontrolled and may cause injury and damage.

### **Procedures for Practice Sessions**

During a practice session an employee in race control observes the karts in operation and the timing system. When an accident or a spin out occurs the employee will turn on the warning lights in that area of the track. Other participants are to drive slowly and are not allowed to pass. Any participant that breaks the track rules either in the way that he drives (intentionally bumping or blocking) or any other misbehavior - will be given a black flag directing he/her into the pit area or have his/her engine automatically shut off. In the penalty pit area the offender will be given a warning. The offender is to be treated friendly but in clear demonstration that other customers are aware that the rules will be enforced and deter them from being too reckless.

Any persons engaged in minor pushing or misbehavior be warned with the warning flag.

In the case of intentional ramming it is very important to act immediately with the enforcement of a penalty or removal from the track.

In the case that the track barriers are damaged, the practice session will be halted until the damage has been repaired. If a kart has a mechanical problem the customer will either receive a reserve kart or a replacement of his practice session.

A driver will not receive a refund or continuation of his practice session when kart damage is due to an accident caused by the driver. The driver will not be responsible to pay for damages to the kart. The race control employee will end the practice session with the checked flag and turn on all warning lights on the track. He/she will then print out the lap times for the customers and give to the pit staff.

One employee will flag the drivers from the track directing them to slowly drive into the pit area. In the pits the motors will be immediately shut off. These customers are to be directed as soon as possible to return their helmets to the rack, and return to the gear room to change out of their overalls or go to registration to pay for additional practice sessions.

In order to ensure customer satisfaction, it is important that all customers be treated equally.

### **Special Treatment for Beginners**

When a beginner is getting into the kart for the first time there is a greater risk that he/she may make mistakes and even endanger others unintentionally. Special care should be taken to make the nervous beginner feel comfortable and to provide additional support in orientating him/herself to the kart. Beginners should be treated friendly but must be reminded that this is not a crash course but rather a race course where ramming or reckless driving will be penalized. "You can drive as fast as you wish but not at the risk of injuring others or yourself".

In extreme cases of dangerous driving, a person should not be allowed to drive or in the worst case will be forbidden to enter the premises.

### **Personnel Requirements during Operation**

During **high** occupancy times:

- 2 employees for Registration
- 2 employees for Gear Room
- 2 employees for Race Control
- 2 employees for the Pit Area
- 2 employees for the Track Area

During **middle to low** occupancy times:

- 1 employee for Registration
- 1 employee for Gear Room
- 1 employee for Race Control
- 1 employee for the Pit Area
- 1 employee for the Track Area

