



**FOR
INDOOR
USE
ONLY**



OWNERS AND SERVICE MANUAL

INNOVATIVE CONCEPTS IN ENTERTAINMENT INC.

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FOREWORD

This Manual has been compiled to assist those whose task it is to operate and maintain the **KIDDIE COASTER™**. It is essential that all operating and maintenance staff responsible for the safe operation of the simulator completely understand and comply with information herein.

Further advice and field support is available from:

I.C.E. SERVICE DEPARTMENT
716-759-0360
NORMAL BUSINESS HOURS ARE:
MONDAY – FRIDAY, 8:00 AM TO 5:00 PM

Warnings:

Operation of the **KIDDIE COASTER™** without the proper electrical requirements will void the warranty.

OPERATION OF THIS EQUIPMENT IN A MANNER NOT SPECIFIED BY THE MANUFACTURER MAY RESULT IN THE PROTECTION DEVICES NOT AFFORDING THE LEVEL OF SAFETY NORMALLY PROVIDED.

ONLY TRAINED PERSONNEL ARE ALLOWED TO MAINTAIN THE SYSTEM.

THE KIDDIE COASTER™ IS A DYNAMIC MOTION SIMULATOR RIDE. ANYONE WHO IS PREGNANT OR THINK THEY MAY BE, ARE SUBJECT TO MOTION SICKNESS, HAVE BACK OR NECK PROBLEMS, OR UNDER THE INFLUENCE OF ALCOHOL OR DRUGS, HAVE EPILEPSY, HAS A HEART COMPLAINT, OR OTHER MEDICAL CONDITION, OR IS OF A NERVOUS DISPOSITION, SHOULD USE CAUTION WHEN USING THIS RIDE.

SMALL CHILDREN SHOULD BE SUPERVISED BY AN ADULT.

NOTICE

Except as may be otherwise provided by contract, this SERVICE MANUAL, including the drawings and specifications are the property of INNOVATIVE CONCEPTS in ENTERTAINMENT. They are issued in strict confidence and shall not be reproduced, copied or used as a basis for manufacture or sale of any apparatus.

INTRODUCTION

GAME FEATURES

Thank you for purchasing the new KIDDIE COASTER™ from I.C.E. This coaster utilizes all the technology of its predecessor. The coaster motion is limited to a “back and forth” motion. This unit was designed for children so a smoother motion is necessary.

Thick 1/8” metal panels and marine grade water resistant plywood make the game extremely durable. All metal surfaces are epoxy powder coated for excellent wear properties.

Both side panels of the coaster are covered with a back printed polycarbonate graphic. This adds a great look with a durable finish.

Cost was not the issue when selecting the drive motor, this is the heart and sole of the piece and needed to be “bullet proof”. Leeson and Hampton were the manufacturers selected.

Electronics and sounds are the state of the art in digital technology. Robust design ensures a long trouble free life for your game. The game is very flexible with its programming options to allow it to be tailored to most locations easily.

GAME PLAY

A person may begin his experience after he or she is seated securely inside the coaster. (THIS RIDE SHOULD NEVER BE RIDDEN WHILE STANDING. ARMS AND LEGS MUST REMAIN IN THE COASTER AT ALL TIMES) He or she may begin by inserting the appropriate number of credits.

Then the player must determine which coaster he or she would like to ride

If a player does not choose a coaster within 1 minute, he or she will lose their credits.

As the unit begins to move the player is advised to hold on to handle bar at all times. A PLAYER MUST NEVER TRY TO EXIT OR BOARD THE COASTER ONCE THE MOTION HAS STARTED.

NOTE : ALL PERSON NOT RIDING THE COASTER MUST REMAIN A SAFE DISTANCE AWAY.

INSTALLATION

BEFORE YOU BEGIN

WARNING: WHEN INSTALLING THIS GAME, A GROUNDED A.C. RECEPTACLE MUST BE USED. FAILURE TO DO SO COULD RESULT IN INJURY TO YOURSELF OR OTHERS. FAILURE TO USE A GROUNDED RECEPTACLE COULD ALSO CAUSE IMPROPER GAME OPERATION, OR DAMAGE TO THE ELECTRONICS

DO NOT DEFEAT OR REMOVE THE GROUNDING PRONG ON THE POWER CORD FOR THE SAME REASON AS GIVEN ABOVE. USING AN IMPROPERLY GROUNDED GAME COULD VOID YOUR WARRANTY.

HAVE A QUALIFIED ELECTRICIAN CHECK YOU'RE A.C. RECEPTACLE TO BE SURE THE GROUND IS FUNCTIONING PROPERLY.

THIS GAME IS DESIGNED TO DISSIPATE STATIC ELECTRICITY THROUGH THE GROUNDING PLANE OF THE GAME. IF THE A.C. GROUND DOES NOT WORK, THE GAME COULD DISCHARGE STATIC ELECTRICITY THROUGH THE GAME CIRCUITRY, WHICH COULD CAUSE DAMAGE.

5. BE SURE THE COASTER IS IN AN AREA CLEAR OF ALL OTHER OBSTACLES. I.C.E. RECOMMENDS THAT NOTHING SHOULD BE CLOSER THAN 10 FEET TO THE COASTER.

TO OPERATE THE GAME AT VOLTAGES OTHER THAN THOSE IT WAS DESIGNED FOR, PLEASE CONTACT OUR SERVICE DEPARTMENT FOR VOLTAGE CONVERSION INFORMATION.

IF YOU HAVE ANY QUESTIONS OR COMMENTS REGARDING INSTALLATION OR PROPER FUNCTION OF THE GAME, PLEASE CONTACT OUR SERVICE DEPARTMENT AT:

PHONE: 1-716-759-0360
FAX: 1-716-759-0884
E-MAIL: service@icegame.com

INSTALLATION

The game comes ready to play with just a few simple things to keep in mind:

1. When installing the game, be sure you use a grounded A.C. outlet. If necessary, have it checked to be sure the ground is good.
2. Make sure the game is level after installation. It is necessary to make sure the game is level so the game will work properly.
3. The plug comes from under the ride, once the ride is plugged in, turn the illuminated switch to the "ON" position. See the figure below.
4. It is advised to test the DBV and coin mechanisms before opening the unit for use.

PROGRAMMING OPTIONS

INTRODUCTION

This section will describe in detail each of the programming options and how they work.

PLEASE READ THIS SECTION THOROUGHLY BEFORE CALLING OUR SERVICE DEPARTMENT. MOST QUESTIONS REGARDING SET-UP AND OPERATION WILL BE FULLY EXPLAINED HERE.

HOW TO USE THE PROGRAMMING OPTIONS

CREDIT SETUP

Turn off game and then back on.

When the DVD player reaches the "PLEASE STANDBY" screen, enter the code using the buttons inside the coin door. The code is printed on a decal placed near the buttons. Press the "2" button to enter Set-Up. The "1" button exits Set-Up.

Press the "1" button to select Credits Set-Up or the "2" button to select Free Play Set-Up. In the Credits Set-Up screen you can select the number of credits needed per ride. In the Free Play screen you can select the option of unlimited rides.

Once a selection is made you will be asked to press the "STOP" to return to main menu. Press the "1" button to select Normal Operation.

TV Setup

1. Connect video and audio cables from DVD to the inputs on the back of the TV.
2. Using the TV remote, press the "POWER" button, located in the upper right corner of the remote, to turn on the TV. You may have point the remote down through the glass for the TV to sense the remote.
3. Press the "INPUT" button located under the "POWER" button to change the video input.
4. You should now see the playing DVD or the DVD on screen commands if the DVD is connected and on. The TV will remain blue if there is no active input.
5. This completes the TV setup. The volume can be raised or lowered using the remote volume control buttons.

DVD Setup

Connect the yellow video cable to the "VIDEO 1" connector, located in the group of connectors labeled "LINE OUT" on the back of the DVD.

Connect the red audio cable to the "R FRONT" connector, located in the group of connectors labeled "5.1CH OUTPUT" on the back of the DVD.

Connect the white audio cable to the "L FRONT" connector, located in the group of connectors labeled "5.1CH OUTPUT" on the back of the DVD.

Connect the black RCA cable from the black box to the "CENTER" connector, located in the group of connectors labeled "5.1CH OUTPUT" on the back of the DVD.

Do not connect the black 1/8" plug from the black box until the DVD setup is complete.

Turn on DVD player by pushing in the "POWER" button on the front of the player. You should see the DVD display on the TV screen.

Using the DVD remote, press the "DISPLAY" button located in the left bottom corner of the remote. The Control Menu appears.

Press the Up/Down buttons to select SETUP (toolbox icon). The options for "SETUP" appear.

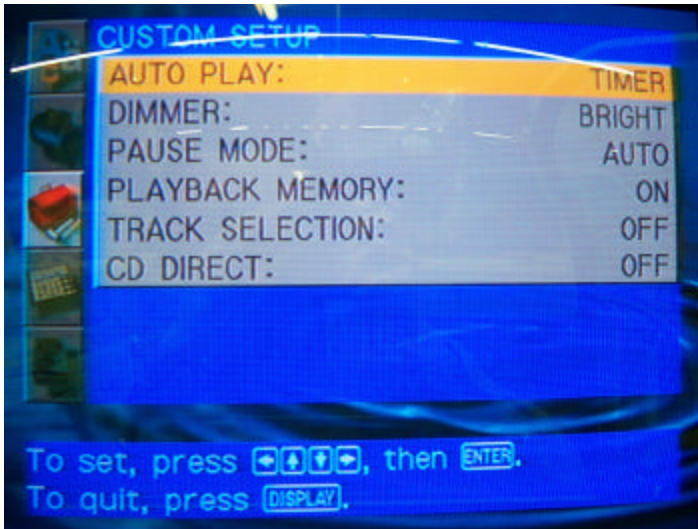
Press the Up/Down buttons to select "CUSTOM", then press ENTER. The Setup Display appears.

Press the Up/Down buttons to select "CUSTOM SETUP", then press ENTER. The Custom Setup Display appears.



PROGRAMMING OPTIONS

Press the Up/Down buttons to select "AUTO PLAY", then press ENTER. The settings for Auto Play appear.



Press the Up/Down buttons to select "TIMER", then press ENTER. Press the Left button to return to the Setup Display.

Press the Up/Down buttons to select "AUDIO SETUP", then press ENTER. The settings for Audio Setup appear.

Press the Up/Down buttons to select "DIGITAL OUT", then press ENTER. Press the Up/Down buttons to select "ON", then press ENTER.

Press the Up/Down buttons to select "DOLBY DIGITAL", then press ENTER. Press the Up/Down buttons to select "DOLBY DIGITAL", then press ENTER to select it as the setting.

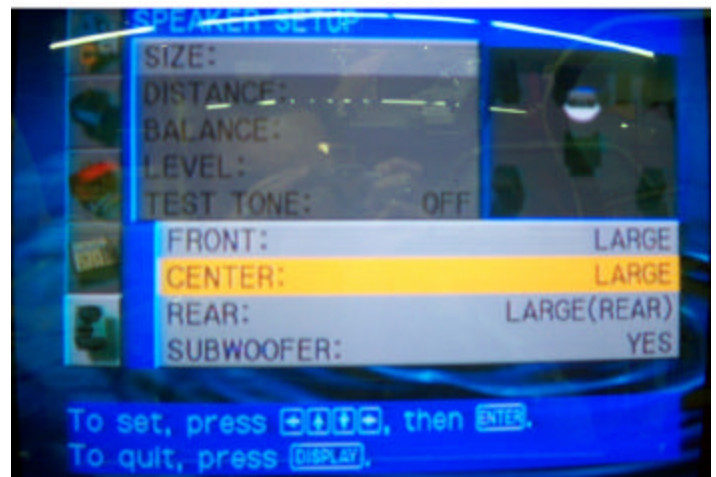


Press the Up/Down buttons to select "DTS", then press ENTER. Press the Up/Down buttons to select "DTS", then press ENTER to select it as the setting. Press the Left button to return to the Setup Display.



Press the Up/Down buttons to select "SPEAKER SETUP", then press ENTER.

Press the Up/Down buttons to select "SIZE", then press ENTER. Set all speakers to Large.



Press the DISPLAY button twice to exit the setup screens and complete the DVD setup process.

Connect the black 1/8" plug from the black box to the jack located near the power cord on the back of the DVD.

MAINTENANCE

GENERAL MAINTENANCE

This game has been designed to be as trouble and maintenance free as possible.

With this in mind, the only basics are to keep the game clean. Below are the main areas to take care of with specific directions.

BASE BELLOWS

The bellows is made from PVC and vinyl and may be cleaned with Windex or soapy water. Over time the bellows may begin to crack or rip. At this point the bellows **MUST** be replaced.

CABINET

The cabinet plastic and decals can be cleaned with soapy water or spray furniture polish. **DO NOT** use any alcohol or petroleum based cleaners as they could damage the plastic or printed parts.

COIN MECHANISMS

The coin mechanisms should be cleaned periodically, as they will accumulate dirt, which will cause the coins to stick.

Remove the coin mech and clean them in a dish detergent solution and a stiff brush. Dry thoroughly and re-install.

DBV

The DBV requires little to no maintenance. An occasional cleaning and blow off with an air nozzle is all that's required.

MONITOR AND GLASS

The monitor glass can be easily removed for the best results. A standard glass cleaner may be used to clean the glass and the monitor.

LUBRICATION

There is very little maintenance to the coaster. The DC drive motor requires no lubrication. After several years with excessive use the brushes may need to be replaced. Once a year or sooner depending on usage, the reducer bearing will require some grease.

SCHEDULED MAINTENANCE

MONTHLY MAINTENANCE

In order to keep your **KIDDIE COASTER™** running smoothly for many years, you will have to perform maintenance in the following areas at least once each month, or every 1000 plays. Follow the simple instructions on this page.

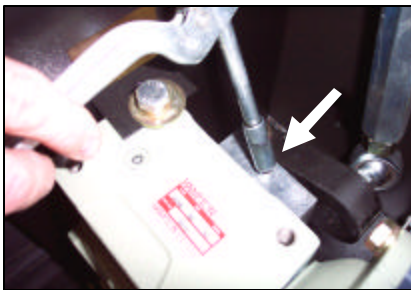
MAKE SURE GAME IS UNPLUGGED BEFORE BEGINNING ANY OF THESE PROCEDURES.

The first three areas are found in the lower front cabinet of the machine, (SEAT SIDE.)

1. Open front cabinet by removing 3 bolts.
2. Carefully pull cabinet cover down.

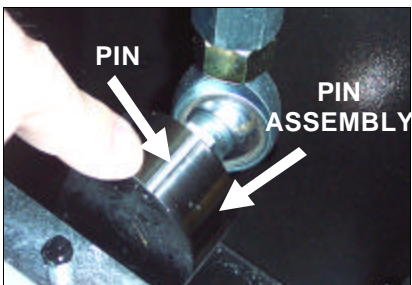
Grease Bearing Block

1. Using a multipurpose grease, apply 3 pumps to the bearing block as shown below.



Clean Pin Assembly

1. Raise seat by turning motor wheel, (on right side), by hand until the pin assembly is visible. (with pin in the 12 o'clock position.)
2. Clean Pin Assembly with Rubbing Alcohol. (DO NOT USE SOAP AND WATER.)



3. If rust or dirt appears on the Pin Assembly, this may cause the game to malfunction. Use a Black Permanent Ink Marker to paint Pin Assembly, DO NOT PAINT THE PIN. The pin must stand out as silver from the assembly, which should be black.

4. Lower the seat by turning the motor wheel in the opposite direction by hand, until the Pin Assembly is returned to the two o'clock position.

Wipe Off Opto Sensors

1. With a clean cloth, gently wipe off Opto Sensors very carefully, as shown below. (The Opto Sensor is located to the right of the Pin Assembly.)

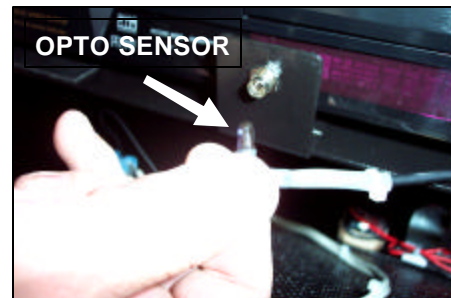


2. Once you have finished maintenance on the previous three items, you must close the cabinet cover and replace the 3 bolts, tightening them to secure the cover.

The fourth area is located in the upper rear portion of the game. (Back of Video Monitor).

Clean DVD Player Opto Sensor

1. Open rear of machine by removing 3 bolts.
2. Lift up cabinet panel, laying it on top of video monitor section of game.
3. Remove Opto Sensor from bracket as shown below.



4. With a clean cloth, gently wipe off Opto Sensor very carefully, as shown above. Be especially careful not to snap Opto Sensor.
5. Replace Opto Sensor into bracket.
6. Close panel and re-secure with 3 bolts.

QUICK TROUBLESHOOTING

GAME WILL NOT TAKE OR ADD MONEY CORRECTLY:

- Micro switch not working or returning properly. Check and repair or replace as necessary.
- Bad Harnessing or connector. Check w/ohm meter and repair as necessary.
- Game programming set incorrectly. Check programming option and re-program if necessary.
- Bad Main P.C. Board. Check and repair or replace as necessary.

COASTER WILL NOT MOVE / COASTER MOTION IS NOT IN SYNC WITH VIDEO:

- Home sensor is not adjusted to proper distance or faulty. Adjust or replace
- Motor sensor is not adjusted to proper distance or faulty. Adjust or replace
- Motor reflector is not spinning.
- DVD player is not playing. Reset programming or replace
- Bad DVD. Replace
- Motion is turned off. Turn circuit breaker on (side of black box)
- Faulty wiring or connections. Check with meter.
- Striped gearbox. Replace
- Bad motor or brushes. Replace

COASTER HAS NO VIDEO:

- TV is not set to video. See programming
- DVD player is not playing or programmed properly. See programming or replace DVD player
- DVD is bad. Replace
- Loose connection. Check connections
- Game is not turned on or plugged in.

GAME REPAIR

WARNING: ALWAYS REMOVE POWER TO THE GAME BEFORE ATTEMPTING ANY SERVICE, UNLESS NEEDED FOR SPECIFIC TESTING.

FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN SERIOUS INJURY TO YOURSELF OR OTHERS.

OPERATIONAL BACKGROUND

The KIDDIE COASTER™ game has been manufactured with modular design in mind. Almost everything in the game can be EASILY removed for servicing. This makes it much easier for the repairman as he / she can work in a quieter less distracting environment away from the Game Room floor.

Coin and low ticket sensing are done with conventional micro switches. In all areas of critical importance, optical sensors were developed specifically, and optimized for their particular application.

All P.C. Boards are made of premium quality board material and use time proven components to assure you of the most reliable designs possible.

We have put forth our best efforts and tested this game extensively to assure the best possible performance under the widest variety of operating conditions. We are ALWAYS however interested in our customers input for product improvement. If you have any questions or comments please feel free to contact our service department.

I.C.E. SERVICE DEPARTMENT 716-759-0360

NORMAL BUSINESS HOURS ARE:
MONDAY – FRIDAY, 8:00 AM TO 5:00 PM

TROUBLESHOOTING PHILOSOPHY

To find problems with the game, always first check what should be obvious. See that the game is plugged in, and that all of the fuses on the game are good. This includes the fuse that is located INSIDE the power module.

Next, check to see that all of the connectors are firmly seated and that none of the wires have been pulled out of them. This will help you to know if you have a problem with a specific component, or maybe a problem with either the wiring or the Main P.C. Board.

Use extreme caution when using probes or voltmeters if the game is powered up. If doing continuity checks, it is important to disconnect the harnessing at both ends, as attached they may yield erroneous results.

If a P.C. Board is suspected as the cause of a problem, check to see that all of the components on the board are firmly attached. Pay special attention to any socketed devices.

If light bulbs are suspected, swap them with one that is known to work to narrow the problem down to either a bulb or P.C. Board.

GAME REPAIR

MECHANICAL REPAIR

MOTOR / HOME SENSOR REPLACEMENT

- 1) Unplug the coaster before any internal work is done.
- 2) Remove the 5/32 Allen screws in the back of the seat.
- 3) Using a knife remove the hot melt glue covering the screw.
- 4) A number 2 Phillips screw driver will be needed to remove the sensor. (note: take extra care removing this screw because it is thread locked)
- 5) Remove all zip ties this hold the wires together.
- 6) Unplug the sensor harness from the black electronic box in the front of the coaster.
- 7) It is very important that the spacing remains the same.

**IF YOU HAVE ANY QUESTIONS OR
COMMENTS, PLEASE CONTACT OUR
SERVICE DEPARTMENT AT:**

**716-759-0360
MON. THRU FRI. 8AM - 5PM EST**

PARTS LISTING

MECHANICAL PARTS

CK4001	BELLOWS (LOWER SKIRTING)
CK4002	HANDLE BAR CUSHION
CK1066	TIE ROD END
CK2008A	GEARBOX (HAMPTON)

ELECTRONIC / ELECTRICAL

CK2039HX	PCBA OPTO HOME SENSOR ASSEMBLY
CK2039FX	PCBA OPTO FAN SENSOR ASSEMBLY
CK2008X	LEESON MOTOR ASSEMBLY
CK1003X	MAIN PCB BOX
CK2015X	DVD PLAYER
CK2002X	TRANSFORMER
8522	15 AMP ILLUMINATED CIRCUIT BREAKER
8521	20 AMP CIRCUIT BREAKER
CK2012	12 VDC POWER SUPPLY
MON19TV	MONITOR (19" JVC)
TS2005	BUTTON, LARGE SQUARE 54-0004-31
CK1030X	PROGRAMMING BUTTONS
CK9001	SERVICE MANUAL

DECALS AND GRAPHICS

CK7001	CABINET (LEFT FRONT)
CK7002	CABINET (LEFT REAR)
CK7003	CABINET (RIGHT FRONT)
CK7004	CABINET (RIGHT REAR)
CK7005	REAR LIGHTS & LICENSE PLATE
CK7006	BUTTON DECAL (BLUE STREAK)
CK7007	BUTTON DECAL (GEMINI)
CK7127	MARQUEE

Warranty

I.C.E warrants all components in the **KIDDIE COASTER™** game to be free of defects in materials and workmanship for a period of 90 days from the date of purchase. Furthermore, all MAIN P.C. BOARDS are warranted for 180 days.

This warranty does not cover items damaged due to normal wear and tear, subjected to abuse, improperly assembled by the end user, modified, repaired, or operated in a fashion other than that described in the service manual.

If your **KIDDIE COASTER™** game fails to conform to the above-mentioned warranty, I.C.E.'s sole responsibility shall be at its discretion to repair or replace any defective component with a new or remanufactured component of equal to or greater O.E.M. specification.

I.C.E. will assume no liability whatsoever, for costs associated with labor to replace defective parts, or travel time associated therein.

I.C.E.'s obligation will be to ship free of charge, replacement parts by U.P.S. Ground, U.S. mail, or other comparable shipping means. Any express mail or overnight shipping expense is at the cost of the purchaser.

Products will be covered under warranty only when:

- The serial number of the game with the defective parts is given.
- The serial number of the defective part, if applicable, is given.
- Defective parts are returned to I.C.E., shipping pre-paid, in a timely fashion, if requested by I.C.E.
- A copy of the sales receipt is available as proof of purchase upon request of I.C.E.

I.C.E. distributors are independent, privately owned and operated. In their judgment, they may sell parts or accessories other than those manufactured by I.C.E. We cannot be responsible for the quality, suitability, or safety of any non-I.C.E. part, or any modification, including labor, which is performed by such a distributor.



WARRANTY

ICE Inc warrants that all of its products will be free from defects in material and workmanship.

When placing a warranty request, please be prepared to provide the following information:

- Serial Number of Game or Bill of Sale
- Machine Type
- A Detailed Description of the Equipment Fault Symptoms

ICE product, including Cromptons, Sam's Billiards, Uniana and Bell Fruit is warranted as follows:

- 180 days on the Main PCB and Computers
- 90 days on all other components (i.e. DBV's, Ticket Dispensers, etc)
- 30 days on repaired items
- 3 years on all Crane Harnessing
- 9 Months on Printers

ICE Inc shall not be obligated to furnish a warranty request under the following conditions:

- Equipment has been subjected to unwarranted stress through abuse or neglect
- Equipment has been damaged as a result of arbitrary repair/modification attempts
- Equipment that has failed through normal wear and tear

ICE Inc will assume no liability whatsoever for costs associated with labor to replace defective parts or travel time associated therein.

All defective warranty covered components will be replaced with new or factory refurbished components equal to OEM specifications. ICE Inc will cover all UPS ground, or comparable shipping means, freight costs during the warranty period. Expedited shipments are available for an additional charge.

Defective parts are returned to ICE Inc, at the customer's expense, in a timely fashion.

ICE distributors are independent, privately owned and operated. In their judgment, they may sell parts and/or accessories other than those manufactured by ICE Inc. We cannot be responsible for the quality, suitability or safety of any non-ICE part, modification (including labor) that is performed by such a distributor.

I.C.E. Parts/Service Dept.
Innovative Concepts in Entertainment
10123 Main St.
Clarence, NY 14031
Phone #: (716) - 759 - 0360
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