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OWNERS AND SERVICE MANUAL

INNOVATIVE CONCEPTS IN ENTERTAINMENT INC.

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SAFETY PRECAUTIONS

IMPORTANT: FAILURE TO FOLLOW THESE DIRECTIONS CLOSELY COULD CAUSE SERIOUS DAMAGE TO YOUR CRANE.

WARNING: WHEN INSTALLING THIS CRANE, A 13 AMP GROUNDED SOCKET MUST BE USED. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY TO YOURSELF OR OTHERS. FAILURE TO USE A GROUNDED SOCKET COULD ALSO CAUSE IMPROPER CRANE OPERATION, OR DAMAGE TO THE ELECTRONICS.

USING AN IMPROPERLY GROUNDED GAME COULD VOID YOUR WARRANTY.

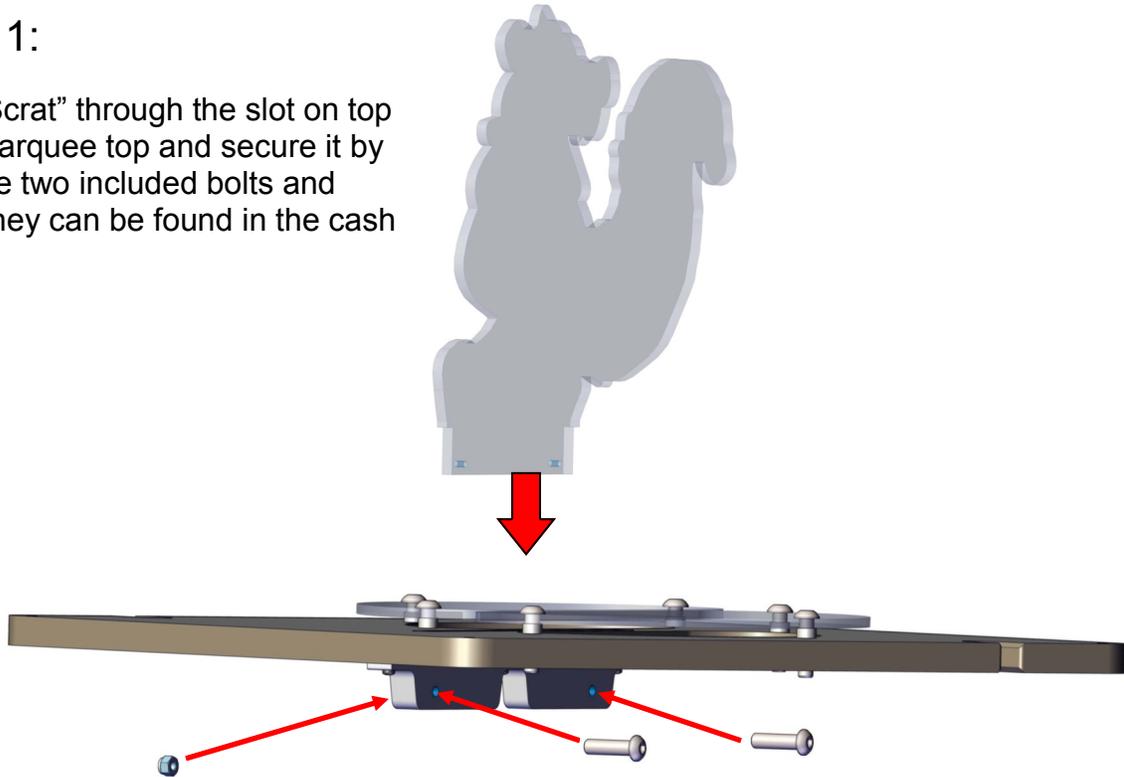
THIS GAME IS NOT SUITABLE FOR INSTALLATION IN AN AREA WHERE A WATER JET COULD BE USED.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance

Marquee Top Assembly

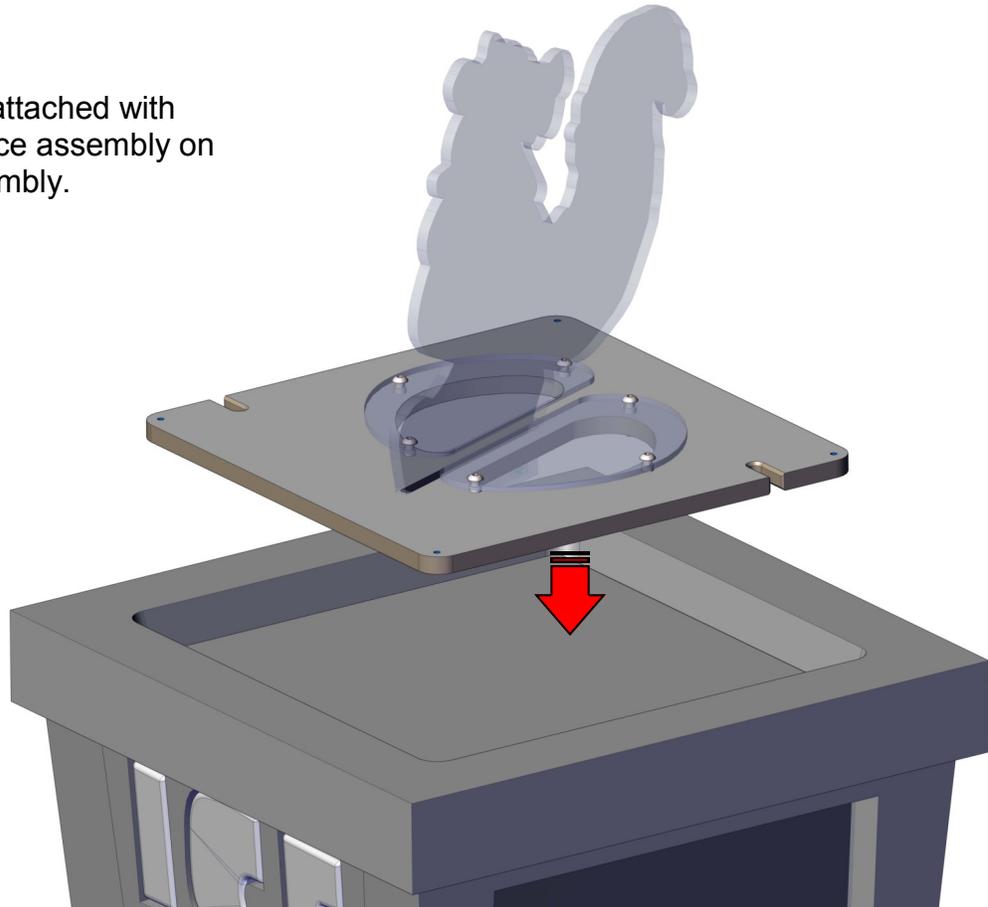
STEP 1:

Insert "Scrat" through the slot on top of the marquee top and secure it by using the two included bolts and nuts. They can be found in the cash box.



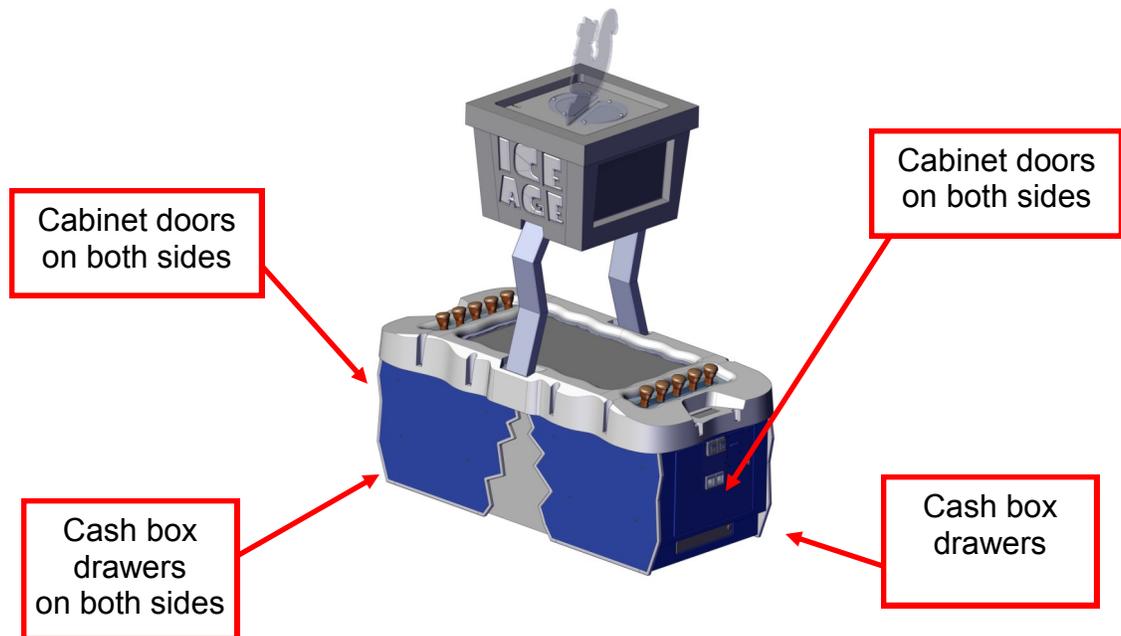
STEP 2:

The marquee top is attached with Hook and Loop. Place assembly on top of marquee assembly.



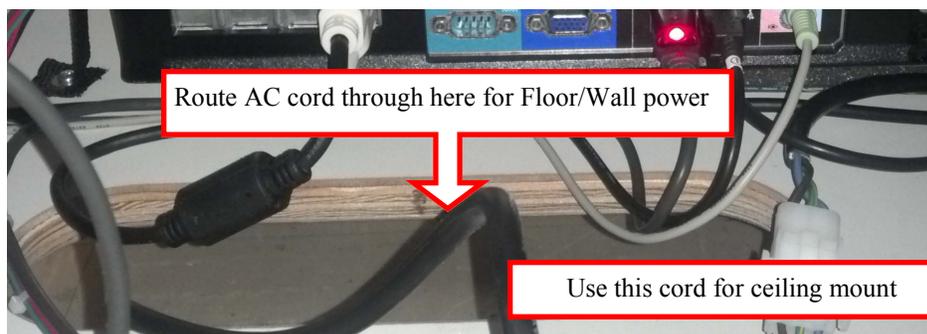
Cabinet Access

There are two cabinet doors located on either side of the game. This allows access to the game's electronics, coin mechanisms, and setup control buttons.

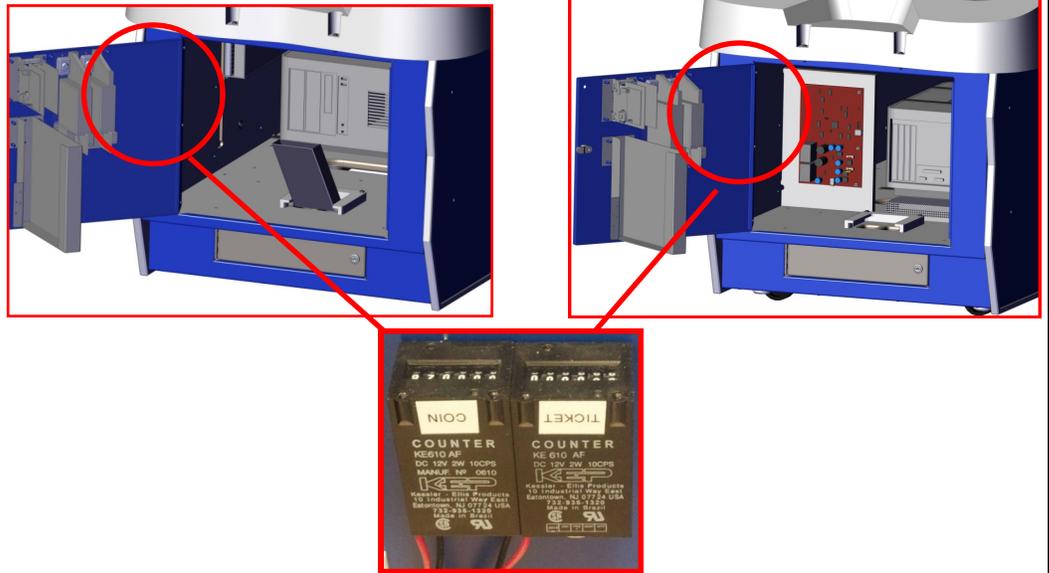


AC Power connections

Located inside the cabinet on one side is the AC power switch and two different options for incoming AC power cords. If your AC power receptacles are located in the ceiling use the AC power cord pre-mounted in the game. You will have to remove the marquee top to route the power cord to your AC receptacle. See section "Marquee illumination access". If your AC outlet is located on the floor or wall, use the provide AC cord found in your parts box and route it through the floor opening shown below.

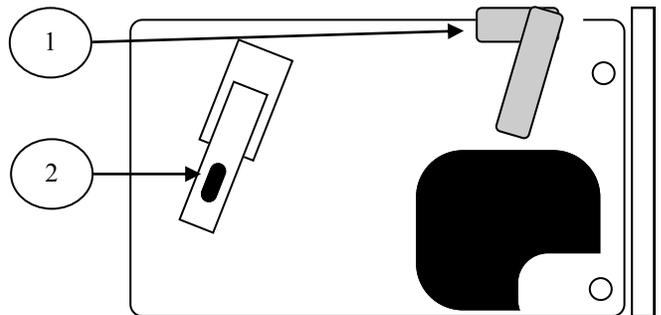


Meter Locations



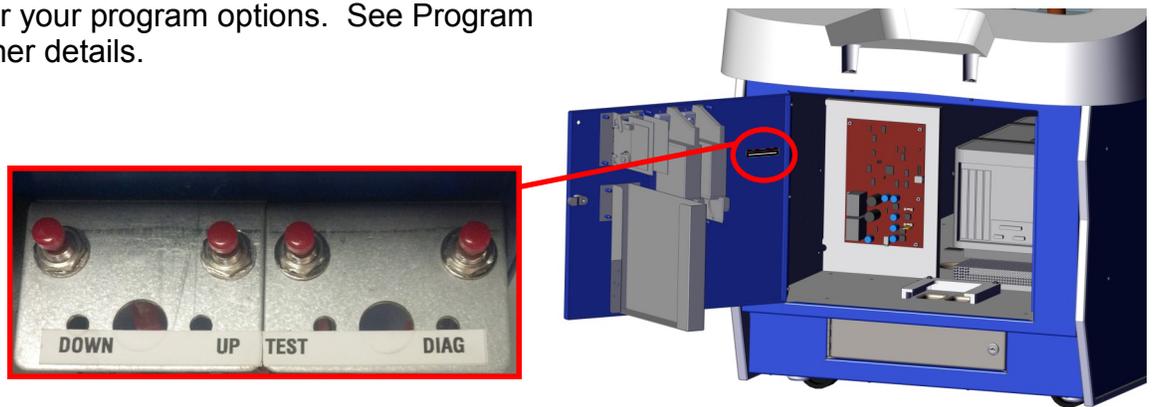
Loading Tickets

To load tickets, loosen the side bracket (labeled 2 below) so that you can move the bracket up or down. Moving the bracket up will decrease the width of a ticket and moving the bracket down will increase the ticket width. Tighten when adjusted for your ticket width. Now slide the ticket through the two guide plates until they reach the rollers. Lift the top level (labeled 1) up to disengage the rollers so that a ticket can be pushed through. Press the ticket advance button located on the backside of the dispenser to test the ticket function.



Volume and Diagnostics buttons

During game mode the Up and Down buttons will increase and lower the volume. The test button will issue a credit without adding a number to the coin meter. Pressing the "Diag" button will allow you to enter your program options. See Program options for further details.

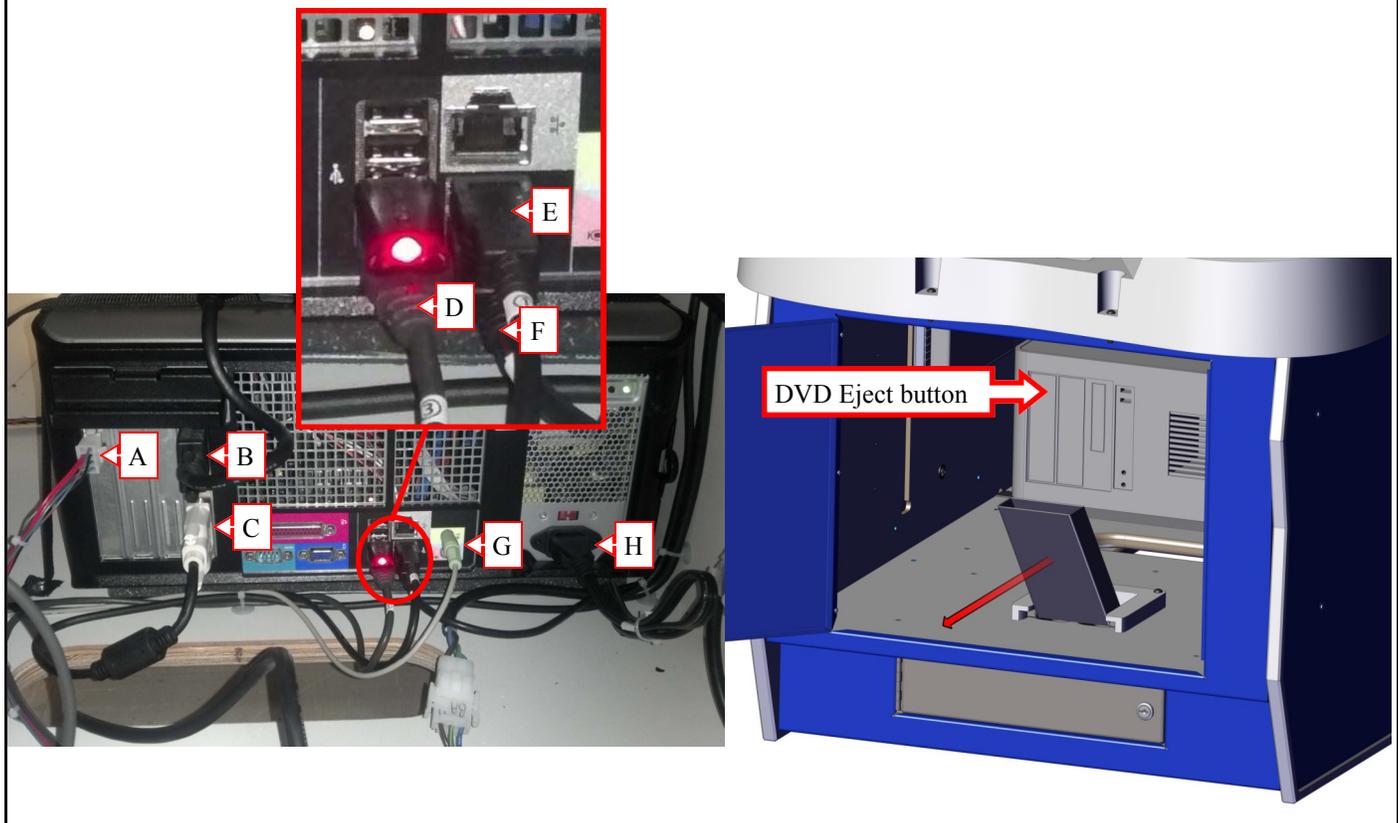


Computer Front Access - Hard drive recover procedure

In the event that the computer's hard drive becomes corrupt you can simply run the restore disk included with your game. Open the cabinet door from which you turned the cabinet's AC power on. Even though the computer's DVD drive is in a horizontal position the computer doesn't have to be removed in order to perform the restore process. With the cabinet's AC turned on, press the eject button located on the DVD drive. Place the DVD with the label facing towards the left (or to the top of the computer case itself). Push gently on the DVD drive tray and the DVD tray will close. Press and hold the PC's power button until the PC turns off. Press the power button again to turn the PC back on. The restore process is automatic and will begin on its own. When the restore disk is finished, it will eject the disk and inform you to cycle power.

To remove the computer, you will first need to access the other side in order to unplug the cables that connect to the computer. Disconnect all connections shown below labeled A through H. D,E,F are USB connections and have can be plugged into any USB port available in any order. B is the video for the marquee monitors. C is for the main monitor. G is for sound and H is for power. A connects to your I/O board for power and watchdog feature.

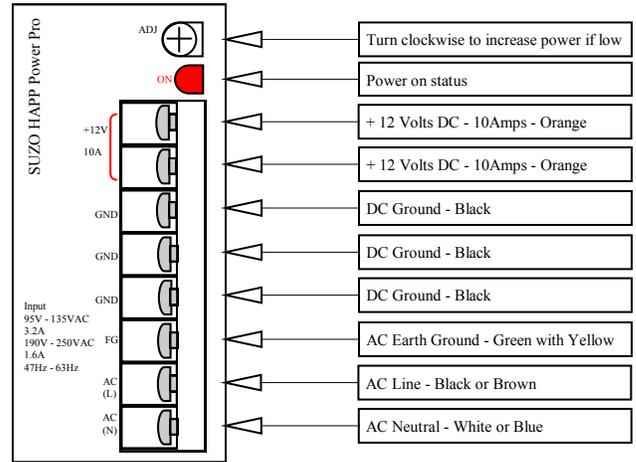
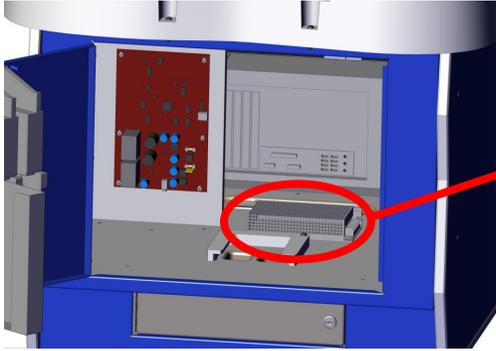
Remove the coin chute by sliding the coin out as shown below in the direction of the arrow. Release the straps that hold the computer to the cabinet. To do so, press the tabs located on the side of the strap to unbuckle them. The pc can now slide out the side that you removed the coin funnel from.



TROUBLESHOOTING

Power supply

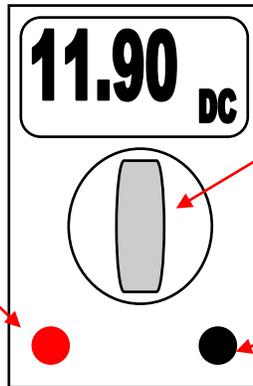
The power supply used for cabinet power is a IA2010. It has only +12 volts of DC power at 10 Amps.



Checking DC Voltages

+12 Volt Test with Volt meter set to DC voltage.
Voltage range can be plus or minus 5%.

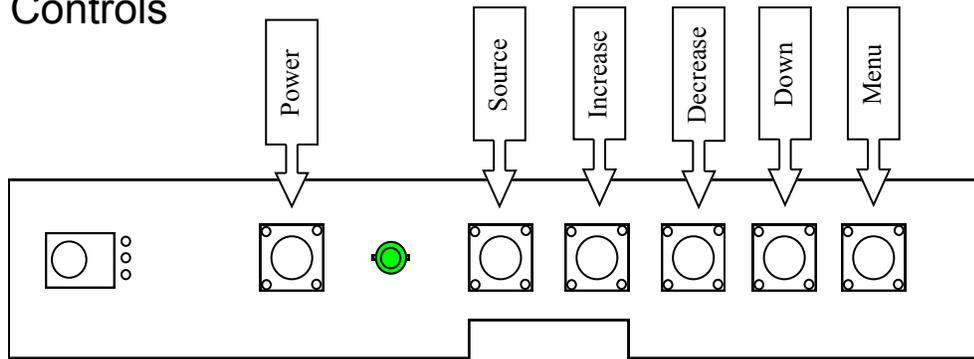
Positive Probe:
Connect to +12V on power supply
(orange wire to power supply)



Turn to DC voltage check

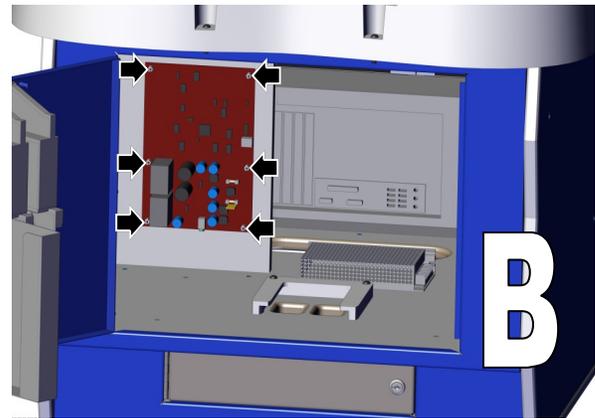
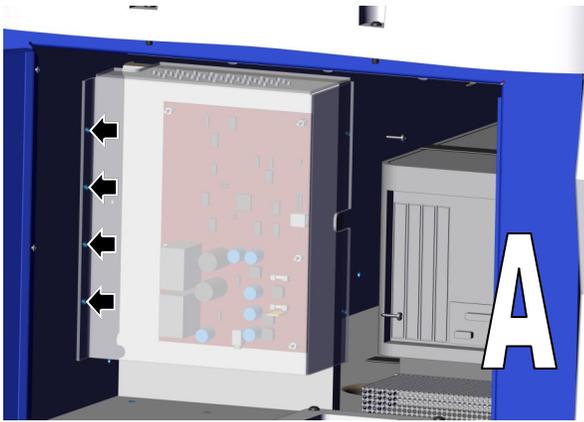
Ground Probe:
Connect to GND on power supply
(Black wire to power supply)

Main Monitor: Controls

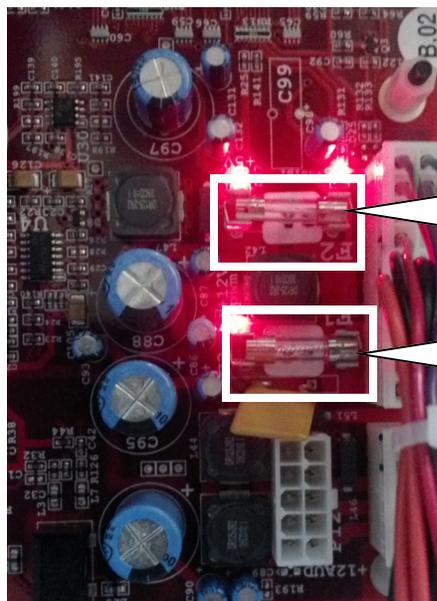


Game I/O removal

In the event you need to replace the I/O board, open the side of the cabinet where the I/O board is mounted. Remove the four screws holding the plastic cover over the I/O board. See Picture A below. Disconnect all harnessing to the I/O board. Remove the 6 plastic standoffs that hold the I/O board. See picture B below. Assembly in reverse.



Normal operation of the I/O board should show three LED's on. This indicates that the Fuses are good and no faults are presenting in the +12 and +5 volt lines. If a LED is not on and you have checked for the proper operation of the +12 volt main power supply found on page 13, check F1 and F2 fuses. F1 fuse should be a 7Amp fast blow while F2 fuse should be a 3 amp fast blow fuse. You will have to remove the plastic shield in order to test the fuses. If the fuses are found to be open, locate the short or failed device before replacing the fuse. Check all wiring for any that could be pinched, cut, or broken.

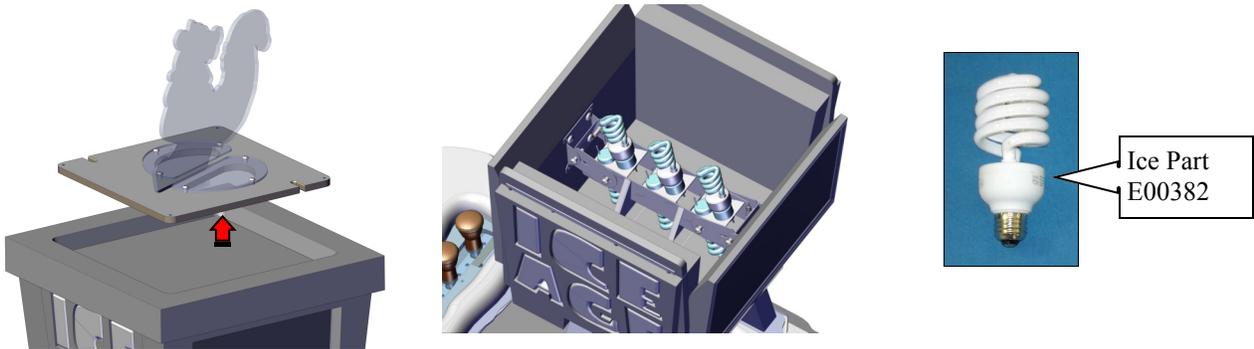


F2 : 3 AMP

F1 : 7 AMP

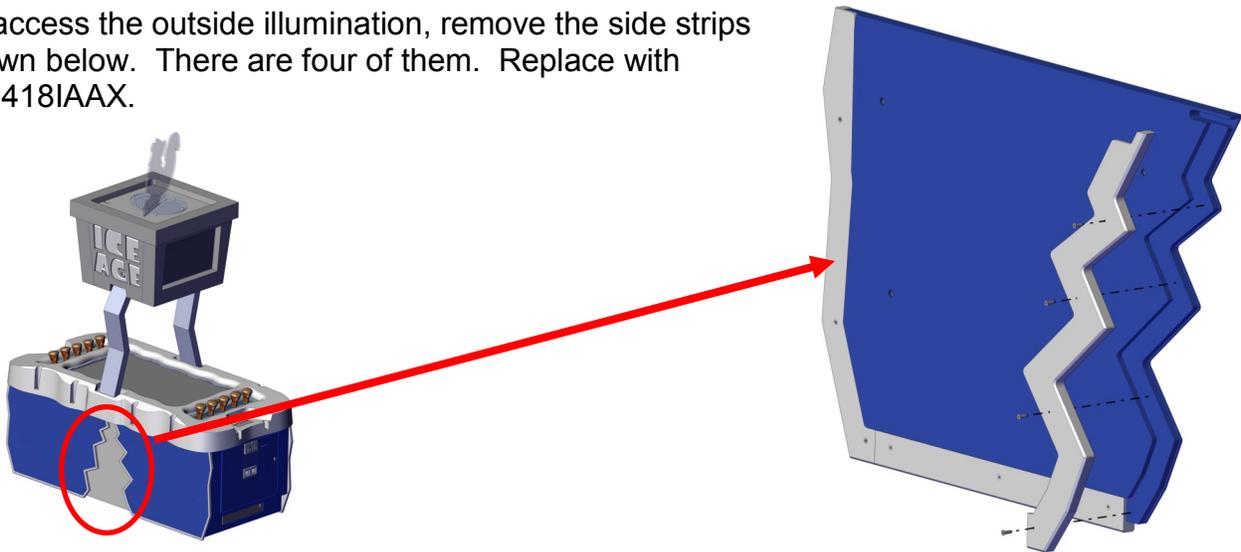
Marquee illumination: bulb replacement

The upper marquee is illuminated by 6 curly bulbs. Remove the top marquee cover by lifting up the top marquee cover. Replace the defective bulb and reattach the marquee cover.



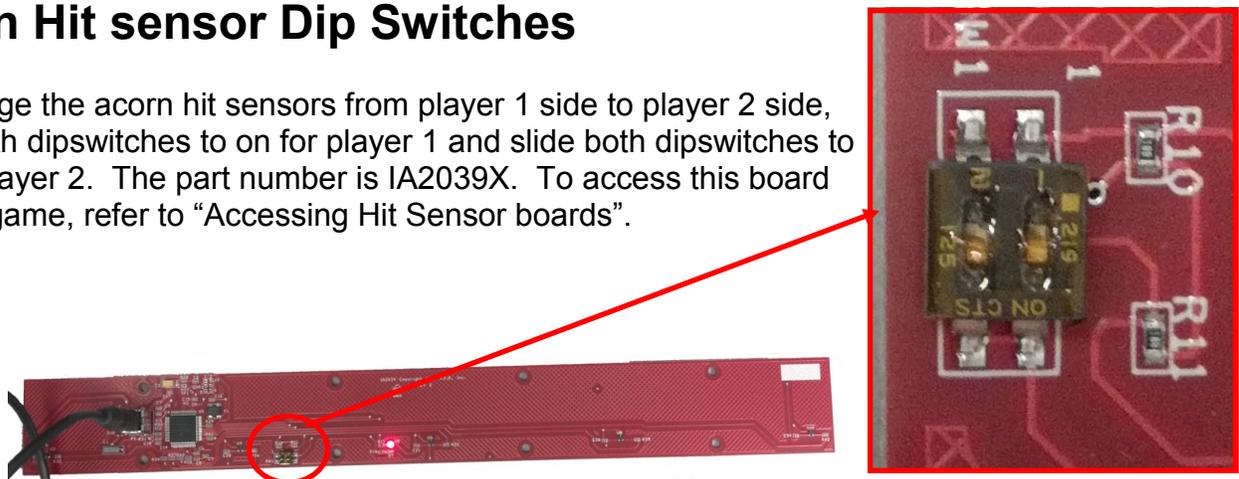
Outside Cabinet illumination: LED Strip replacement

To access the outside illumination, remove the side strips shown below. There are four of them. Replace with E00418IAAX.



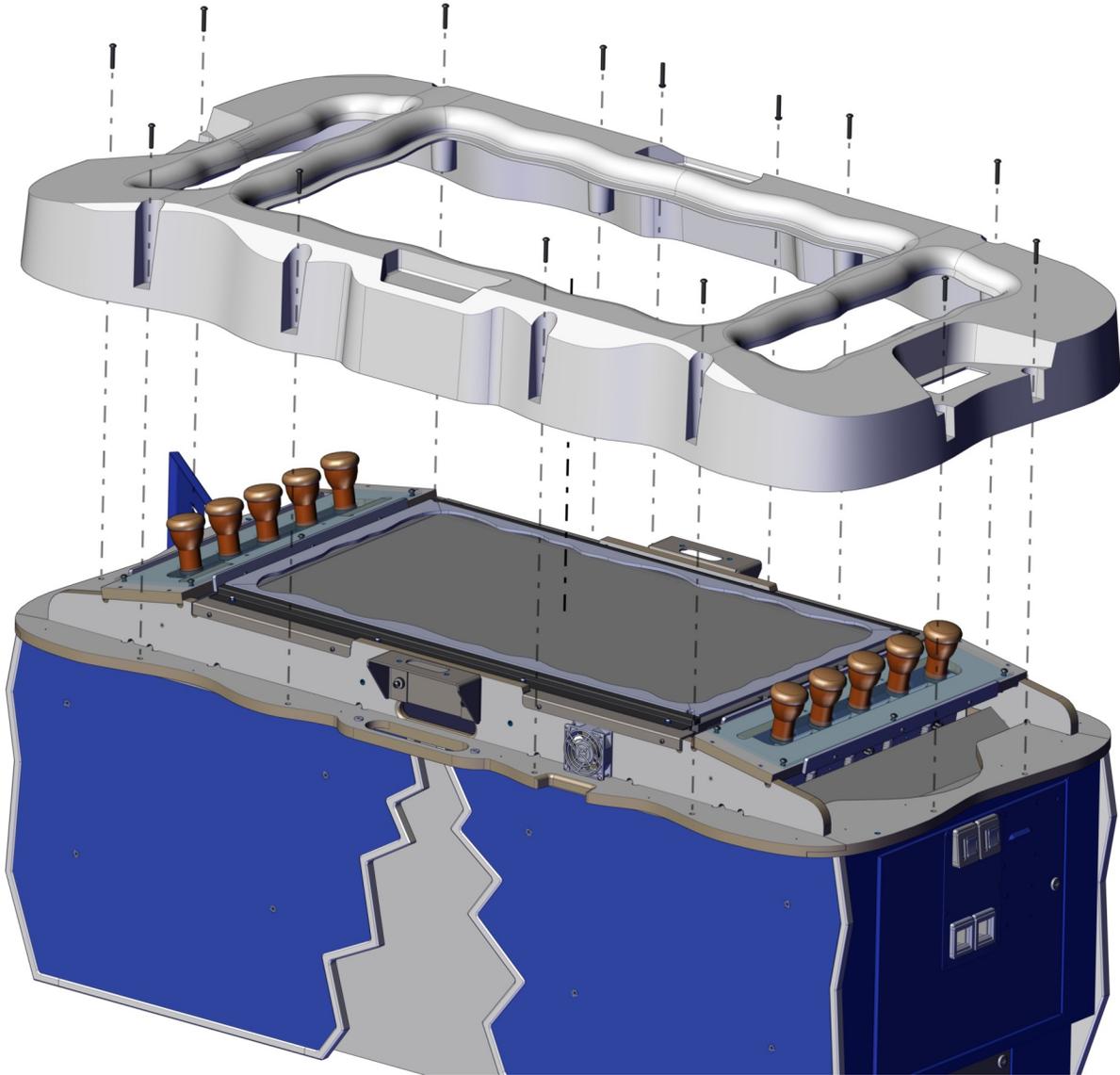
Acorn Hit sensor Dip Switches

To change the acorn hit sensors from player 1 side to player 2 side, slide both dipswitches to on for player 1 and slide both dipswitches to off for player 2. The part number is IA2039X. To access this board in your game, refer to "Accessing Hit Sensor boards".



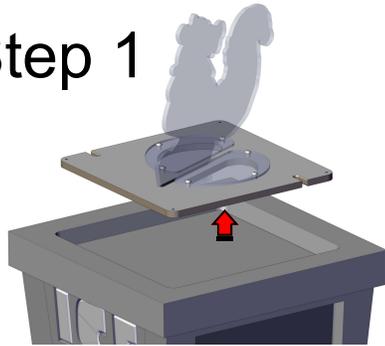
Cover top removal

To access the Acorn assemblies, Cabinet fans, or replace the main monitor, remove the screws shown below and carefully lift the plastic cover off the top of the cabinet. You will have to remove the top Marquee assembly first. Refer to the section “Marquee Assembly Removal” for further details.

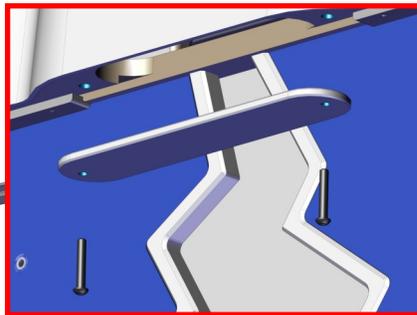
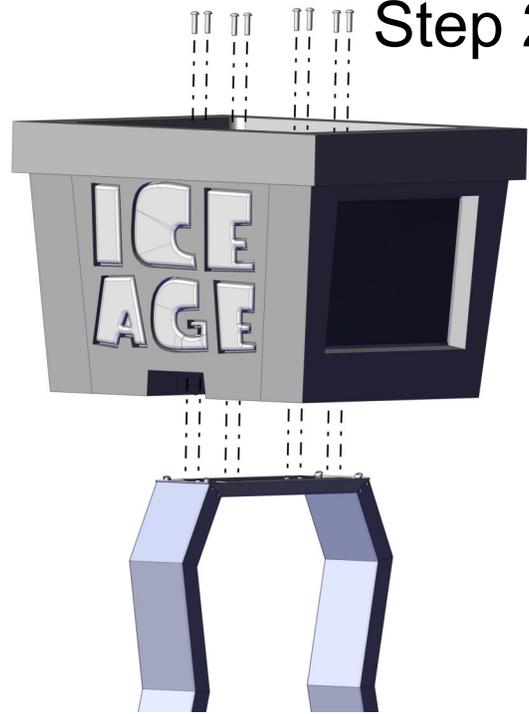


Marquee Assembly Removal

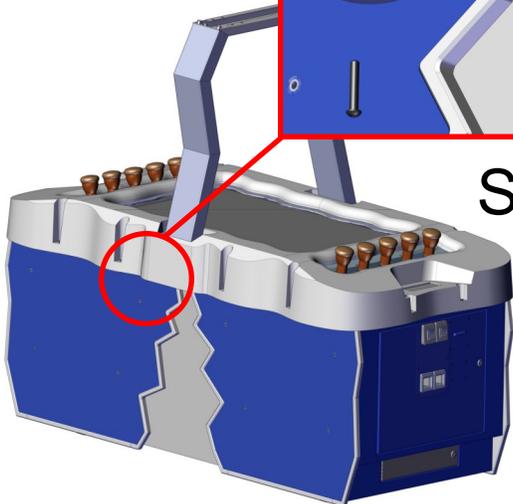
Step 1



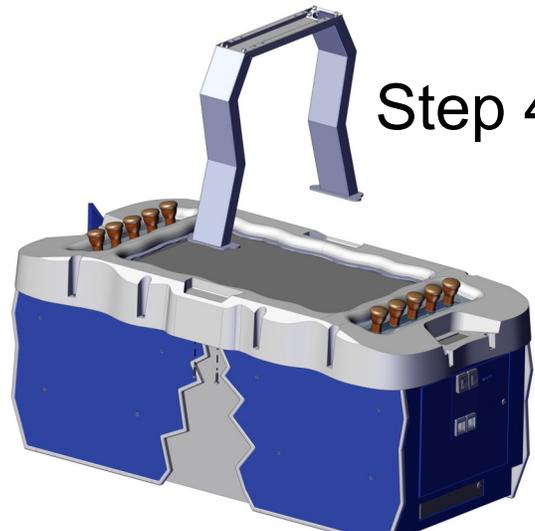
Step 2



Step 3



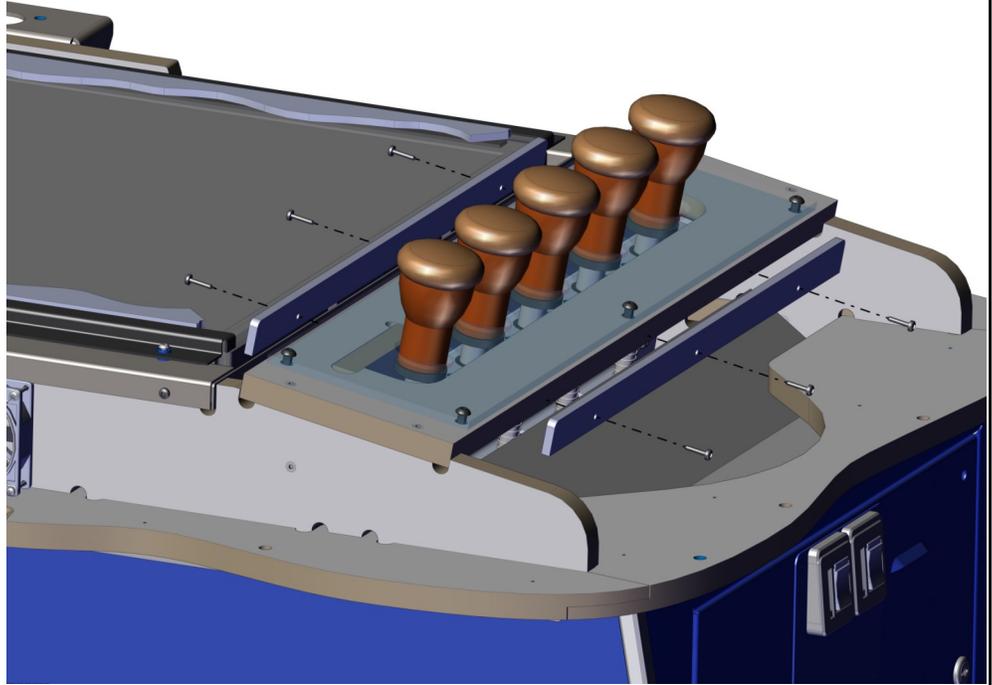
Step 4



Acorn Blue LED Strip replacement

To access the Acorn LED strips you will need to first refer to the section on how to remove marquee assembly and then refer to the section on how to remove the top cover.

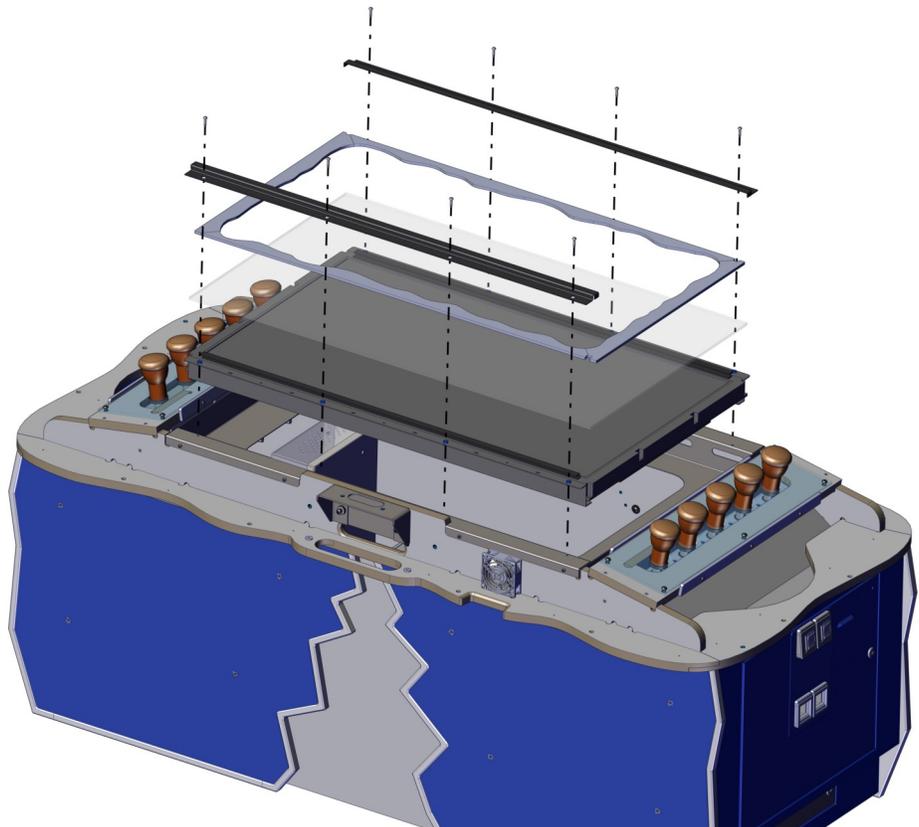
Once removed, refer to the picture to remove the LED strips. Replace with part number E00414IAX.



42" LCD Main Display replacement

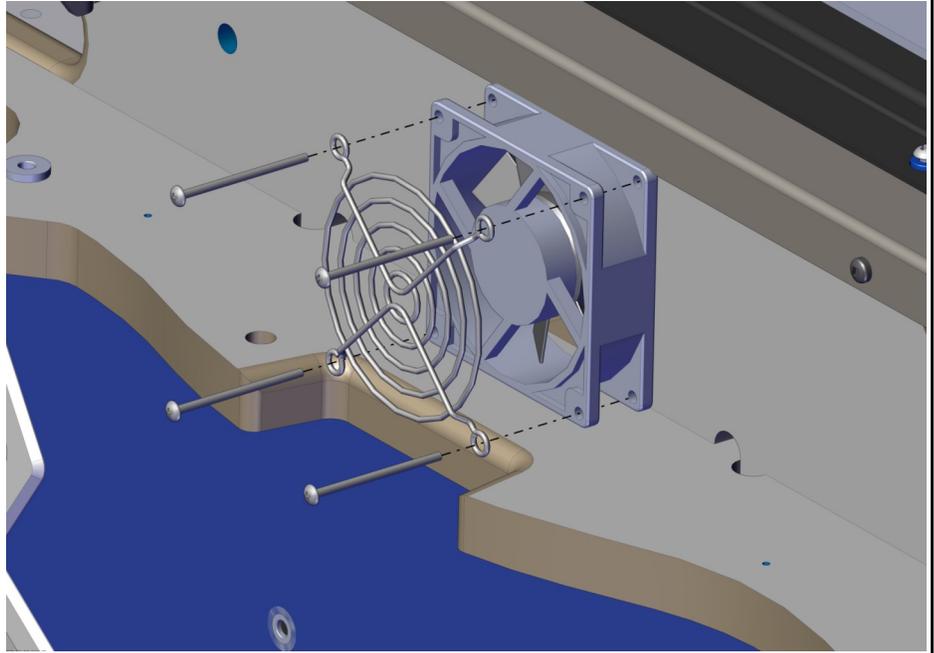
To remove the monitor you will need to first refer to the section on how to remove marquee assembly and then refer to the section on how to remove the top cover.

Once removed, refer to the picture to remove the monitor. Replace with part number MON42LCD.



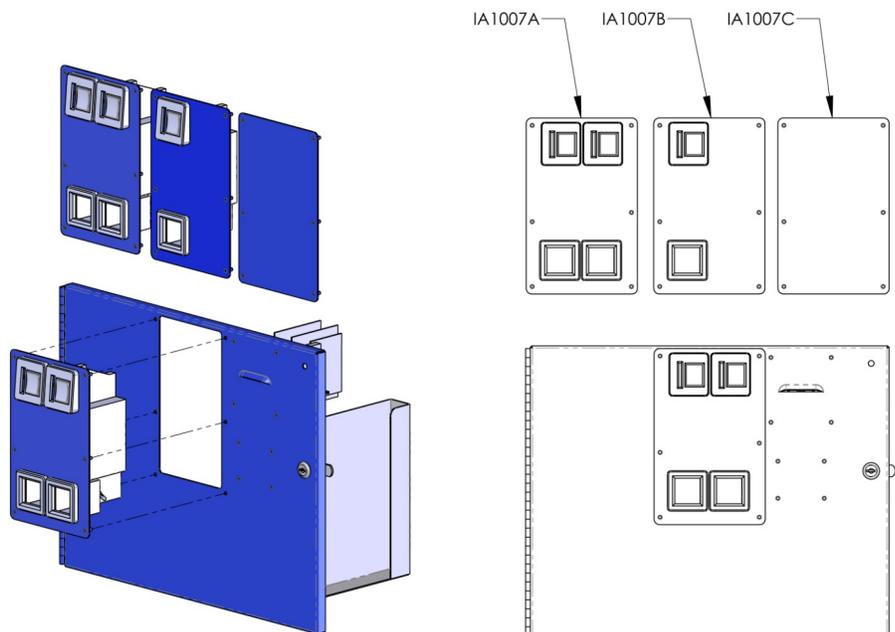
Cabinet Cooling Fans replacement

To replace the cooling fans you will need to first refer to the section on how to remove marquee assembly and then refer to the section on how to remove the top cover. Once removed, refer to the picture to remove the Fan Assembly. There is one on each side. Replace with part number IA2364X.



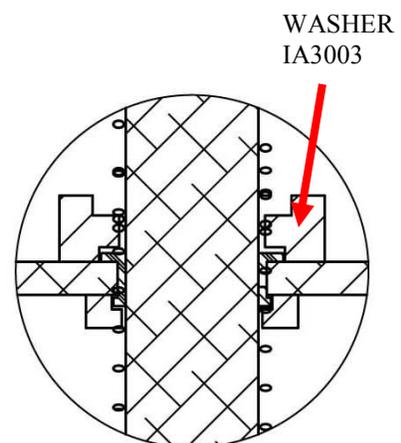
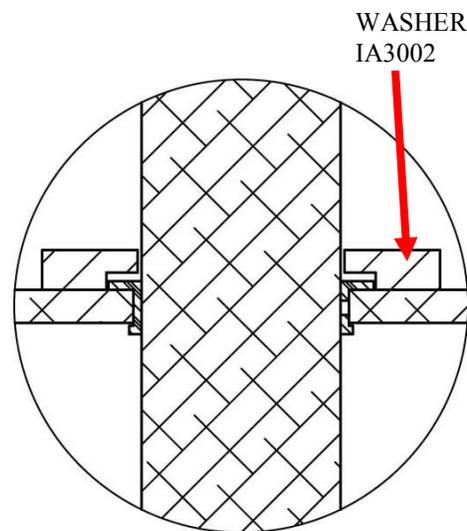
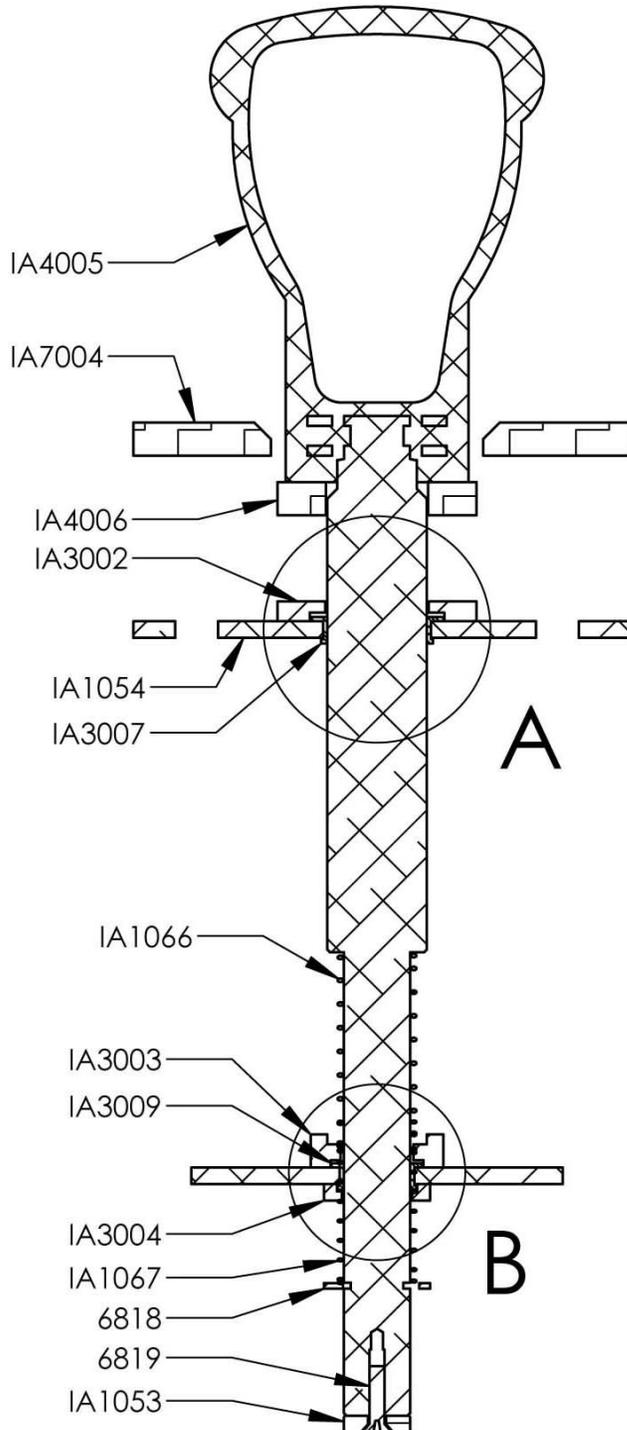
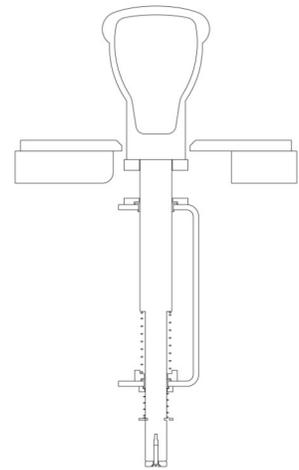
Coin Door Option

There are three different types of coin doors that can be installed with your game. Double entry, single entry, and blank (used for card swipe locations).

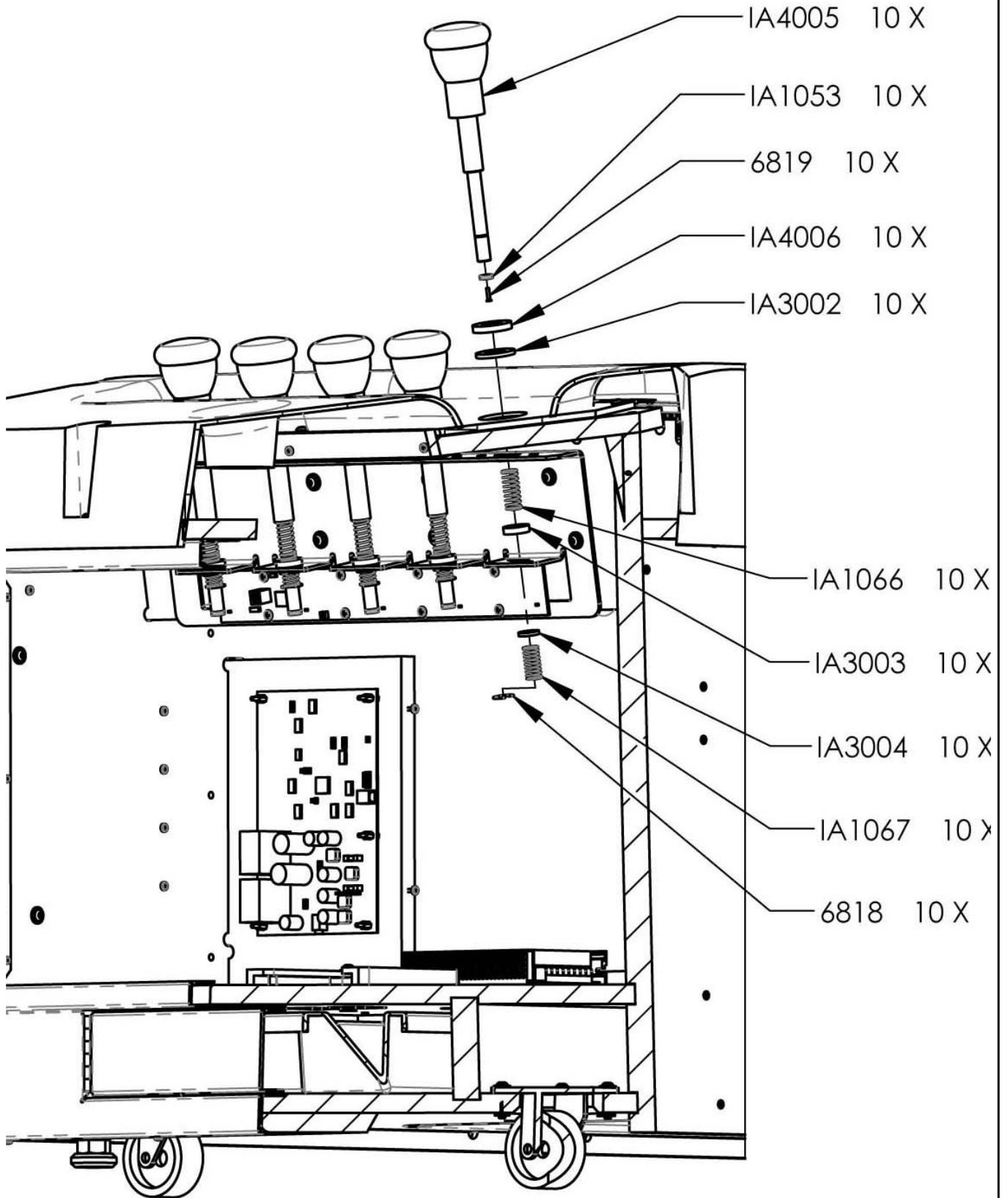


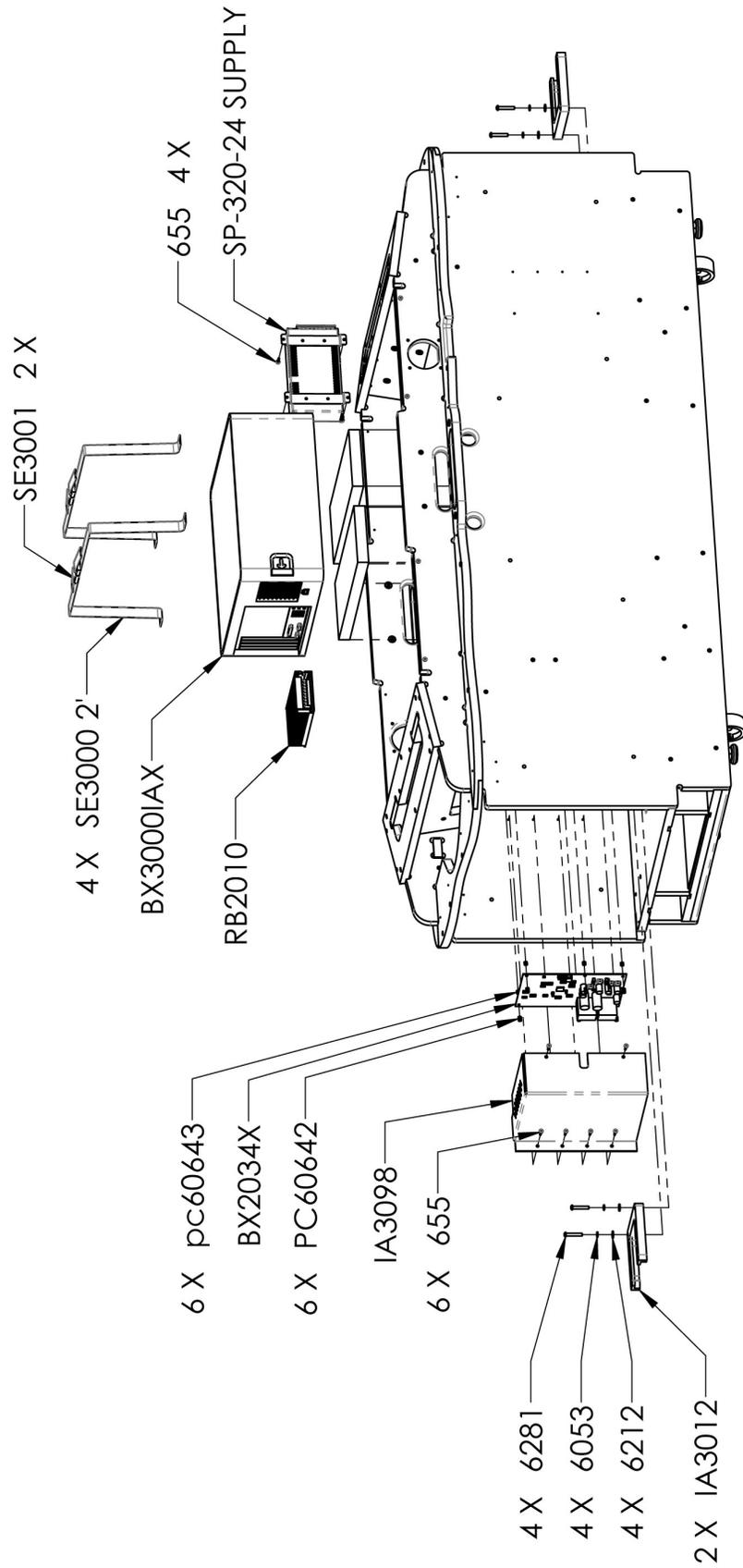
Acorn Assemblies

It is important when working with the acorns that the proper washers are used in the correct places as they protect the bearings from being damaged over time when continually being hit with the mallet.



Acorn Assemblies





Spares:

AR2007	Speaker (6x9)
E00382	Bulb CF 27W
IA7030	Scrat marquee top
MON22LG	Marquee monitor 22" LG wide DVI
BX2000IAX	Ice Age computer w/power adaptor
BX2034X	Rio I/O board
E00474	DVI-D M/M 6' cable
E00599	6' USB A/B cable
E00613	HD15 VGA to 2 HD15 VGA adaptor (for marquee)
5014	45 lock
HH5005CL	Ticket Dispenser
IA1012-P802	Coin funnel
IA1053	Acorn magnet
IA1066	Upper spring
IA1067	Lower spring
IA2010	+12vdc 10 amp power supply
IA2014	Dongle
IA2039X	Hall effect sensor (hit sensor). Dips determine player.
IA2364X	DC fan assembly
IA2090X	Restore Disk for Ice Age
IA3028	Monitor cover glass
IA4010X	Mallet
MON42LCD	42" LCD monitor
PH2007X	6 Amp power mod
E00418IAAX	Crack LED lighting strip
E00418IAX	Under Snow Lighting
E004141IAX	Blue Acorn LED strips
CC3012	Bottom Coin drawer

Graphics

IA7000	Side decal Left
IA7001	Side Decal Right
IA7004	Playfield Panel
IA7005	Coin Door Decal
IA7006	Cash Box Door Decal
IA7007	Coin Mech Plate Decal
IA7030	Scrat (Squirrel)
IA7036	Inside Letter "A"



WARRANTY POLICY

I.C.E. Inc warrants all components in new machines to be free of defects in materials and workmanship for the period listed below:

- 180 days on Main PCB's, Computers & Motors
- 1 year on all LCD monitor panels
- 90 days on all other electronic and mechanical components
- 30 days on all I.C.E. repairs and parts purchases

I.C.E. Inc shall not be obligated to furnish a warranty request under the following conditions:

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

Products will only be covered under warranty by obtaining an I.C.E. authorized RMA #. To obtain an RMA # please provide I.C.E. tech support with the game serial # or original I.C.E. invoice # and a detailed description of the failure or fault symptoms.

I.C.E. Inc will assume no liability whatsoever for costs associated with labor or travel time to replace defective parts. All defective warranty covered components will be replaced with new or factory refurbished components equal to OEM specifications.

I.C.E. Inc will cover domestic UPS ground, or comparable shipping costs during the warranty period. International or expedited shipments are available for an additional charge. To obtain credit defective parts must be returned to I.C.E. Inc, at the customer's expense, within 30 days. After 30 days a 15% re-stocking fee will apply to all returns.

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

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