



OWNERS AND SERVICE MANUAL
INNOVATIVE CONCEPTS IN ENTERTAINMENT INC.

10123 MAIN STREET, CLARENCE, NY 14031

SERVICE: 1-716-759-0360

FAX: 1-716-759-0884

E-MAIL: service@icegame.com

WEBSITE: www.icegame.com

Table of Content

Safety and Warnings	4
<i>Getting started</i>	
Preparing the printer for the first time	
Loading paper	5
Installing Toner	6
AC Power Connections	7
Meter Location & Volume Adjustment	
 <i>Maintenance</i>	
Printer care	
Codes	8
Service call indicators	12
Toner replacement	13
Mirror care	19
 <i>Diagnostic - Repair - Trouble Shooting</i>	
Mirror Replacement	
Back	19
Side	20
Front Glass removal	21
Monitor removal	22
Printer removal	23
Cabinet fan removal	24
Power supply Adjustments	25
Monitor Adjustments	26
I/O board removal	
Marquee illumination	
Computer Recovery	27
Computer Date and Time	28
Front cabinet door illumination	29
 Spare list	30
Warranty	31

Revision 1.1 2-20-2012

SAFETY AND WARNINGS 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.

NOTE: THIS GAME IS INTENDED FOR INDOOR USE ONLY.

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 YOUR 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.

THE POWER SUPPLY IS NOT VOLTAGE ADJUSTABLE. TO OPERATE THE GAME AT VOLTAGES OTHER THAN THOSE IT WAS DESIGNED FOR. PLEASE CONTACT OUR SERVICE DEPARTMENT FOR VOLTAGE CONVERSION INFORMATION.

WARNING

DO NOT remove any of the components on the main board (e.g. compact flash and eproms) while the game is powered on. This may cause permanent damage to the parts and the main board. Removing any main board component part while powered on will void the warranty.

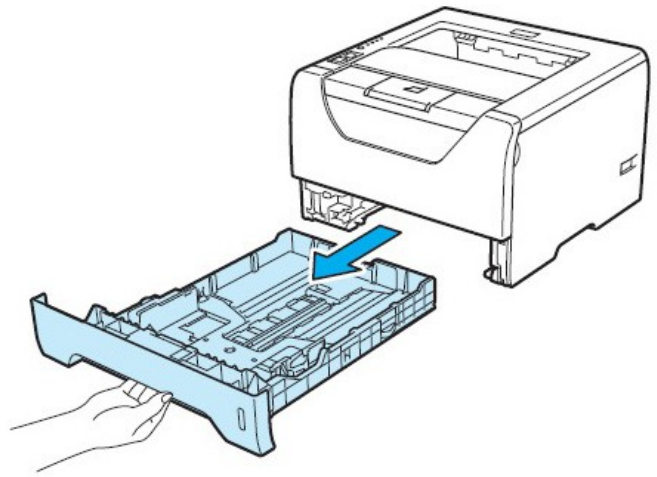
ALWAYS REMOVE POWER TO THE GAME, BEFORE ATTEMPTING ANY SERVICE, UNLESS NEEDED FOR SPECIFIC TESTING. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN SERIOUS INJURY TO YOURSELF OR OTHERS.

Getting Started

Loading paper

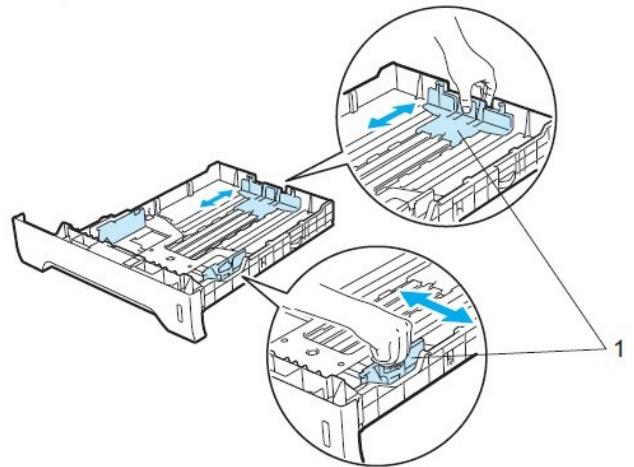
Step 1:

Pull the paper tray completely out of the printer.



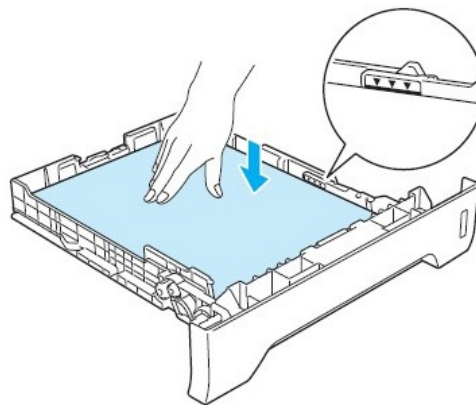
Step 2:

While pressing the blue paper-guide release lever (1), slide the paper guides to fit the paper size. Make sure that the guides are firmly in the slots.



Step 3:

Put paper in the tray and make sure that the paper is below the maximum paper mark (▼▼▼). The side to be printed on must be face down.



! IMPORTANT

Make sure the paper guides touch the sides of the paper so it will feed properly.

Step 4:

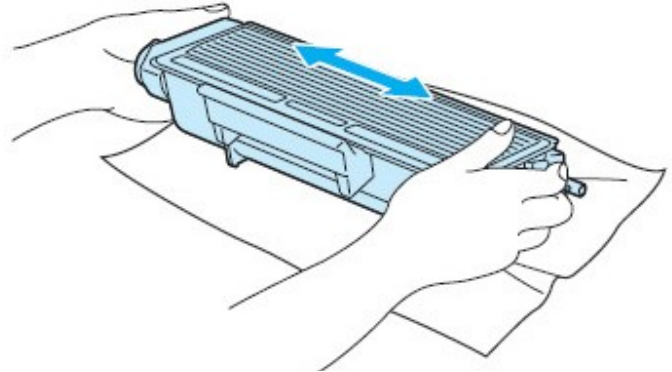
Put the paper tray firmly back in the printer. Make sure that it is completely inserted into the printer.

Getting Started, Part 2

Installing the Toner cartridge

Step 1:

Unpack the new toner cartridge. Gently shake it from side to side several times to distribute the toner evenly inside the cartridge



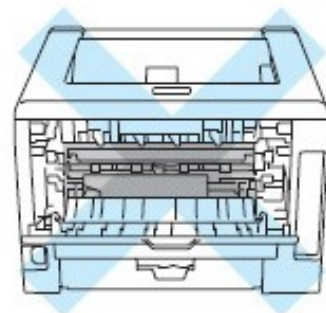
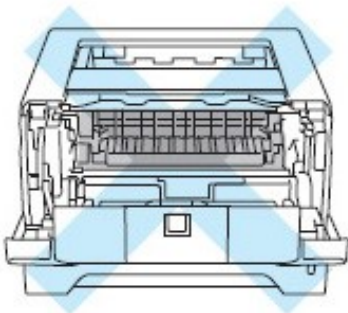
! IMPORTANT

Wait to unpack the toner cartridge until immediately before you put it in the printer. If toner cartridges are left unpacked for a long time the toner life will be shortened.

If an unpacked drum unit is put in direct sunlight or room light, the unit may be damaged.

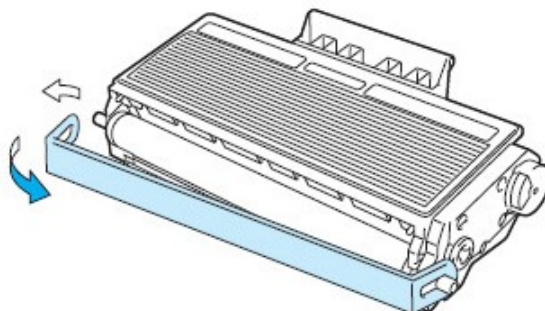
Step 2: CAUTION

Put the toner cartridge in the drum unit immediately after you have removed the protective cover. To prevent any degradation to the print quality, DO NOT touch the shaded parts shown in the illustrations.



Step 3:

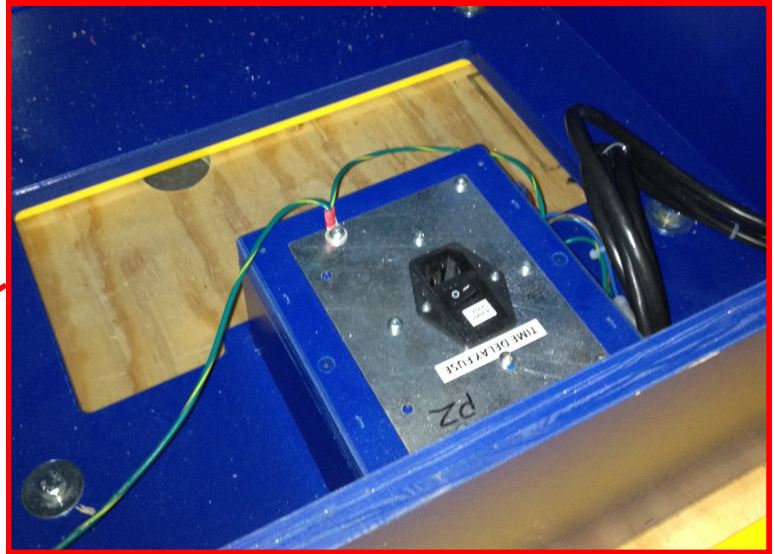
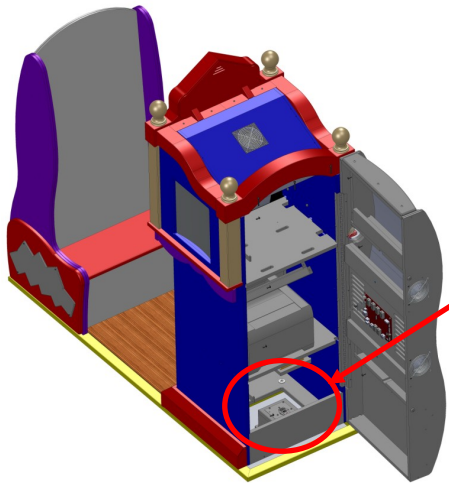
Pull off the protective cover.



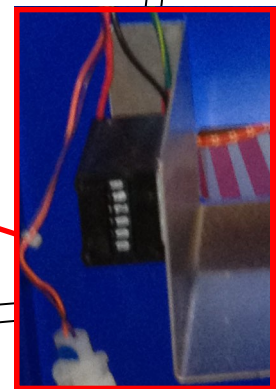
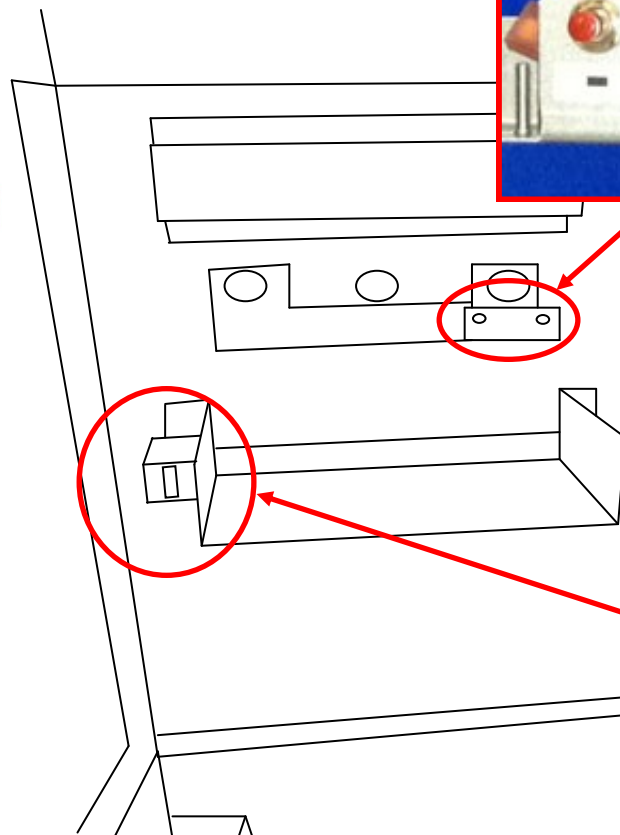
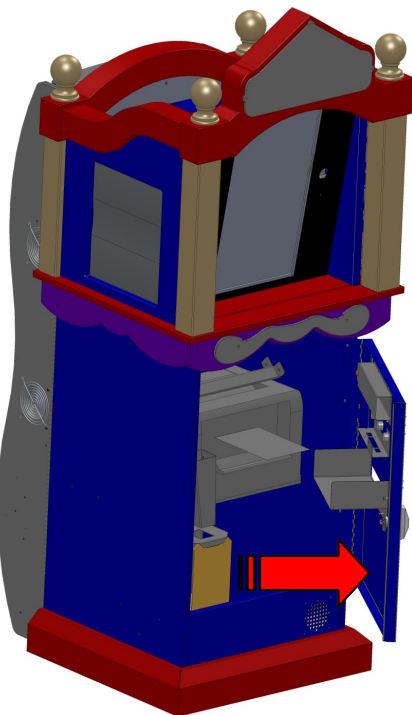
A/C Connection

Plugging in the AC power

This game is designed to use a floor AC power receptacle with at least 10 amps available. The AC power connection is located inside the cabinet and is accessed through the back door. Open the back door and locate the power module. Insert the AC power cord into the power module and then plug the other end through the bottom access hole to a AC power receptacle. Turn the AC power switch to "1" to power on the game.



Meter and Volume Locations



Printer Care

LED Codes and their meaning

There are five LEDs found on the printer. They are as follows:

Back Cover LED

This indicates when errors occur in the back of the printer.

Toner LED -

This indicates when the toner is low or at the end of its life.

Drum LED -

This indicates when the drum is nearing the end of its life.

Paper LED -

This indicates when the printer is in one of the following stats:

- A) No paper
- B) Paper jam
- C) Cover open

Status LED

This will flash depending on the printer status.



The LED indications shown in the table below are used in the next few illustrations.

	LED is off.
	The LED is dimmed.
or or	LED is on.
or or	LED is blinking.

Back Cover Toner Drum Paper Status **Sleep Mode**

The printer is in sleep mode. Pressing GO wakes up the printer from sleep mode to ready mode.

Back Cover Toner Drum Paper Status **Ready to print**

The printer is ready to print

Printer Care

LED Codes and their meaning (Cont)

- Back Cover
- Toner
- Drum
- Paper

Warming

The printer is warming up.

The status LED will turn on for 1 second and off for 1 second.



- Back Cover
- Toner
- Drum
- Paper

Receiving data :The status LED will turn on for .5 seconds and off for .5 seconds.

The printer is either receiving data from the computer, processing data in memory or printing the data.

Cooling down: The status LED will turn on for 1 second and off for 1 second.

The printer is cooling down. Wait for a few seconds until inside of the printer has cooled down.



- Back Cover
- Toner
- Drum
- Paper

Data remaining in memory

There is remaining print data in the printer memory. If the yellow Status LED is on for a long time and nothing has printed, press GO to print the remaining data in memory.



- Back Cover
- Toner
- Drum
- Paper

Toner Low : The status LED will turn on for 2 seconds and off for 3 seconds.

Indicates that the toner cartridge is near the end of life. Buy a new toner cartridge and have it ready for when Replace Toner is indicated.



- Back Cover
- Toner
- Drum
- Paper

Replace toner

Replace the toner cartridge with a new one.

Cartridge error

The drum unit assembly is not installed correctly. Take the drum unit out of the machine and put it back in.



No Toner

Open the front cover, install the toner cartridge.

- Back Cover
- Toner
- Drum
- Paper

Drum life will end soon

The drum unit is near the end of its life. It is recommended to obtain a new drum unit to replace the current one.

The drum LED will turn on for 2 seconds and off for 3 seconds.



Printer Care

LED Codes and their meaning (Cont)

- Back Cover
- Toner
- Drum
- Paper

Replace drum

Replace the drum with a new one.



Status

- Back Cover
- Toner
- Drum
- Paper

No Paper

Put paper in the tray. Press GO to clear error.



Status

- Back Cover
- Toner
- Drum
- Paper

No tray : The paper tray was not detected, install it, or ensure it is inserted correctly.

Paper Jam: The paper LED will turn on for .5 seconds and off for .5 seconds. Clear the paper jam. If the printer does not start printing, press GO.



Status

- Back Cover
- Toner
- Drum
- Paper

Paper Jam (back cover)

Clear the paper jam. The back cover LED will turn on for .5 seconds and off for .05 seconds.



Status

- Back Cover
- Toner
- Drum
- Paper

Fuser cover is open:

Back cover LED will turn on for .5 seconds and off for .5 seconds.

Close the fuser cover which can be found behind the back cover of the printer.



Status

- Back Cover
- Toner
- Drum
- Paper

Drum error

The corona wire needs to be cleaned.

If your LED's still shows the same error indication after you have cleaned the corona wire, replace the drum unit with a new one.



Status

Printer Care

LED Codes and their meaning (Cont)



Back
Cover

Front cover is open



Toner

Close the front cover of the printer.



Drum

Too many trays



Paper

Maximum number of optional trays is two. Remove additional trays.



Status

Buffer error

Check cable connection between the pc and printer.

Memory full

The printer memory is full and the printer cannot print full pages of a document.

Print overrun

A print overrun occurred and the printer cannot print full pages of a document.

Download full

The download buffer of the printer is full. Add more memory to the printer.

Font full

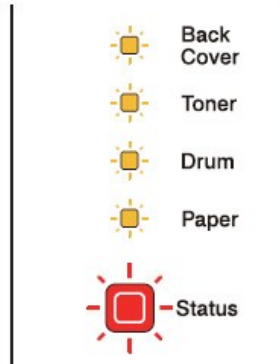
The font memory are is full. Delete fonts or add more memory to the printer.

Printer Care

LED Codes and their meaning (Cont)

Service call indications

If there is an error that cannot be cleared by the user, the printer will show that a service call is needed by lighting up all the LEDs as shown below.



If you see the service call indication shown above, turn off the power switch, and then turn it back on and try to print again.

If the error is not cleared after turning the power switch off and then back on, press **Go** and **Job Cancel** together, the LEDs will light up as shown in the table below to identify the error.

LED error indication

LEDs	Fuser unit failure ¹	Main PCB failure	Laser unit failure	Main motor failure	High voltage failure	DIMM error	FAN Failure
Back Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Toner	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Drum	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Status	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

¹ If this error occurs, turn off the printer power switch, wait a few seconds, and then turn it on again. Leave the printer for 15 minutes with the power on. If the error occurs again, call your dealer or Brother Customer Service.

Printer Care

Toner replacement

Toner cartridge

The life of the original toner cartridge that came with the printer may be either a standard ¹ or high yield toner cartridge ², and depends on the model and country you bought the printer in.

¹ Standard toner cartridges print approximately 3,000 A4 or Letter-size single-sided pages. Approx. cartridge yield is declared in accordance with ISO/IEC 19752.

² High yield toner cartridges print approximately 8,000 A4 or Letter-size single-sided pages. Approx. cartridge yield is declared in accordance with ISO/IEC 19752.

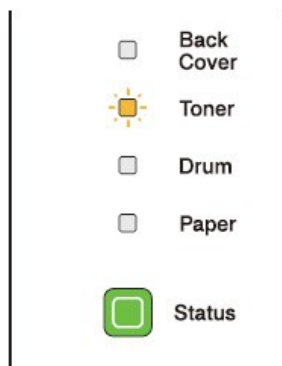


Note

- The amount of toner used varies according to what is printed on the page and the print density setting.
 - If you change the print density setting for lighter or darker printing, the amount of toner used will change.
 - Wait to unpack the toner cartridge until immediately before you put it into the printer.
-

Toner Low message

The **Toner LED** will turn on for 2 seconds and off for 3 seconds and repeats this pattern.



If the LED shows this message, the toner cartridge is near the end of its life. Buy a new toner cartridge and have it ready before you get a Replace Toner message. To replace the toner cartridge, see *Replacing the toner cartridge* on page 95.



Note

The **Toner LED** will blink continuously if the toner cartridge is near the end of its life.

Printer Care

Toner replacement

Replace Toner message

The printer will stop printing until you replace the toner cartridge with a new one.

<input type="checkbox"/>	Back Cover
<input checked="" type="checkbox"/>	Toner
<input type="checkbox"/>	Drum
<input type="checkbox"/>	Paper
<input checked="" type="checkbox"/>	Status

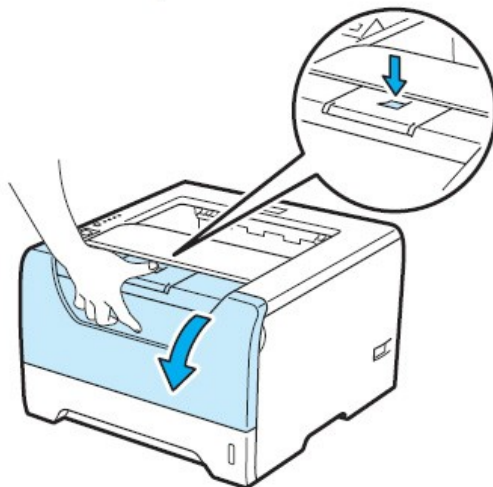
Replacing the toner cartridge



Note

- To ensure high quality printing, we recommend that you use only genuine Brother toner cartridges. When you want to buy toner cartridges, call your dealer.
- We recommend that you clean the printer when you replace the toner cartridge. See *Cleaning* on page 106.

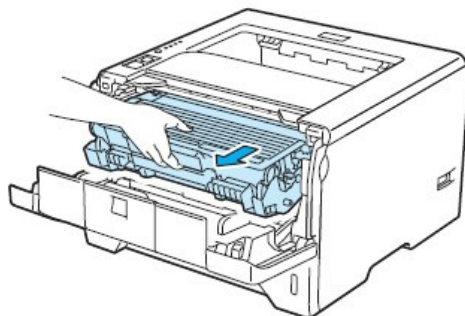
- 1 Make sure that the printer is turned on. Open the front cover.



Printer Care

Toner replacement

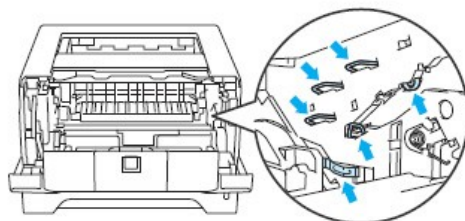
- 2 Take out the drum unit and toner cartridge assembly.



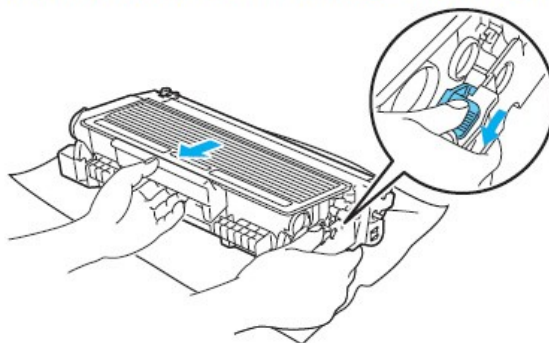
! IMPORTANT

We recommend that you put the drum unit and toner cartridge assembly on a piece of disposable paper or cloth in case you accidentally spill or scatter toner.

To prevent damage to the printer caused by static electricity, DO NOT touch the electrodes shown in the illustration.



- 3 Push down the blue lock lever and take the toner cartridge out of the drum unit.



Printer Care

Toner replacement

! WARNING

DO NOT put a toner cartridge into a fire. It could explode, resulting in injuries.

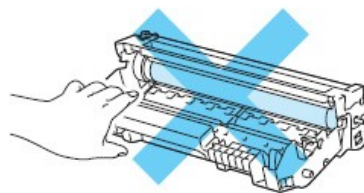
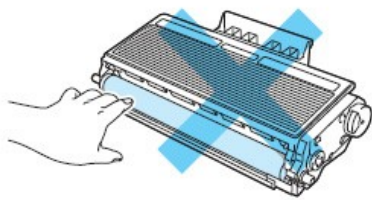
DO NOT use flammable substances, any type of spray or organic solvent/liquids that contains alcohol or ammonia to clean the inside or outside of the printer. Doing this may cause a fire or electrical shock. See *Cleaning* on page 106 for how to clean the printer.

Be careful not to inhale toner.

! IMPORTANT

Handle the toner cartridge carefully. If toner scatters on your hands or clothes, wipe or wash it off with cold water at once.

To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations.



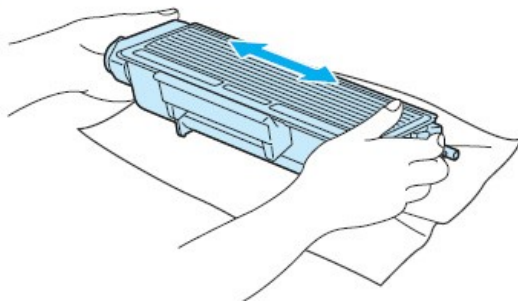
Note

- Be sure to seal up the toner cartridge tightly in a bag so that toner powder does not spill out of the cartridge.
- Go to <http://www.brother-usa.com/environment/> for instructions on how to return the used toner cartridge to the brother collection program. If you choose not to return your used toner cartridge, please discard the used toner cartridge according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office.

Printer Care

Toner replacement

- 4 Unpack the new toner cartridge. Gently shake it from side to side several times to distribute the toner evenly inside the cartridge.



! IMPORTANT

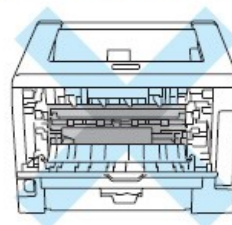
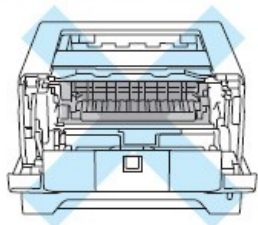
Wait to unpack the toner cartridge until immediately before you put it in the printer. If toner cartridges are left unpacked for a long time the toner life will be shortened.

If an unpacked drum unit is put in direct sunlight or room light, the unit may be damaged.

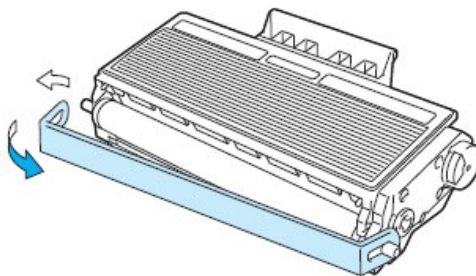
! CAUTION



Put the toner cartridge in the drum unit immediately after you have removed the protective cover. To prevent any degradation to the print quality, DO NOT touch the shaded parts shown in the illustrations.



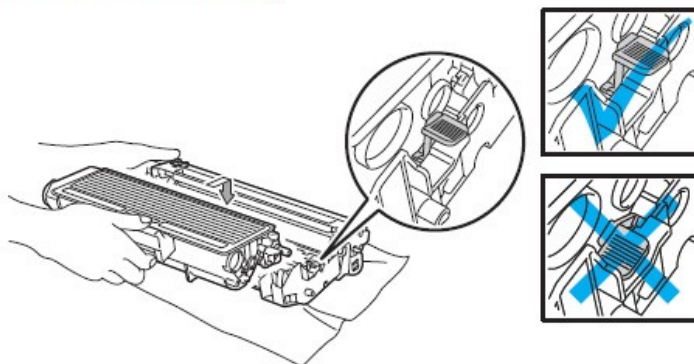
- 5 Pull off the protective cover.



Printer Care

Toner replacement

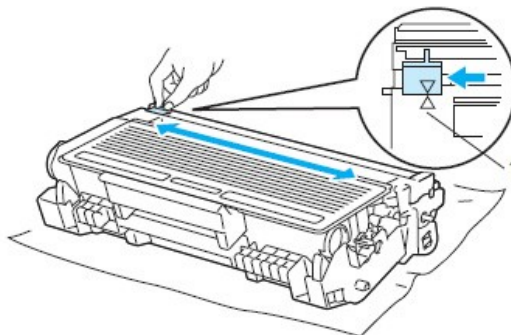
- Put the new toner cartridge firmly into the drum unit until you hear it lock into place. If you put it in properly, the lock lever will lift automatically.



Note

Make sure that you put in the toner cartridge properly or it may separate from the drum unit.

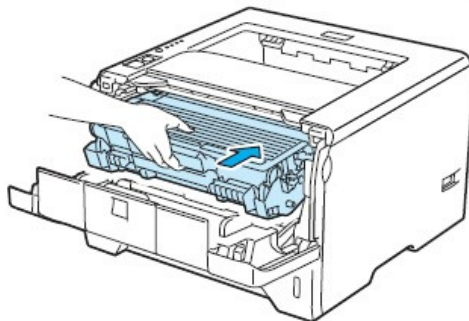
- Clean the primary corona wire inside the drum unit by gently sliding the blue tab from right to left and left to right several times.



Note

Be sure to return the tab to the home position (▲) (1). If you do not, printed pages may have a vertical stripe.

- Put the drum unit and toner cartridge assembly back in the printer. Close the front cover.



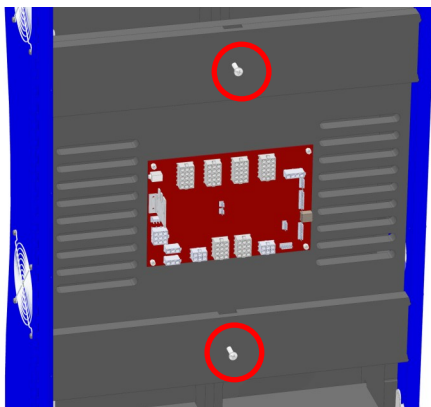
Note

DO NOT turn off the printer power switch or open the front cover until the **Status LED** lights up.

Mirror Care

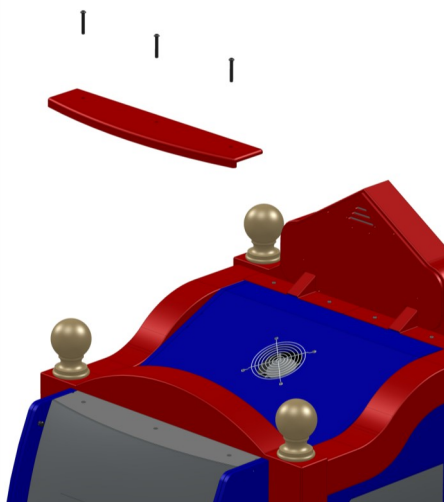
The mirrors on this game is made of plastic. The mirrors should only be cleaned with a non-ammonia glass cleaner. The use of ammonia cleaner will fog the plastic finish of the mirrors and void any warranty of the material.

Mirror Replacement - Back Mirror



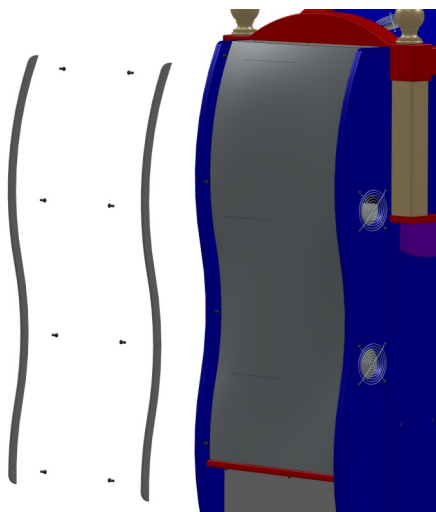
Step 1:

Open the back door of the game and locate the I/O board. Located above and below the I/O board are two bolts. Loosen them but **do not remove them**.



Step 2:

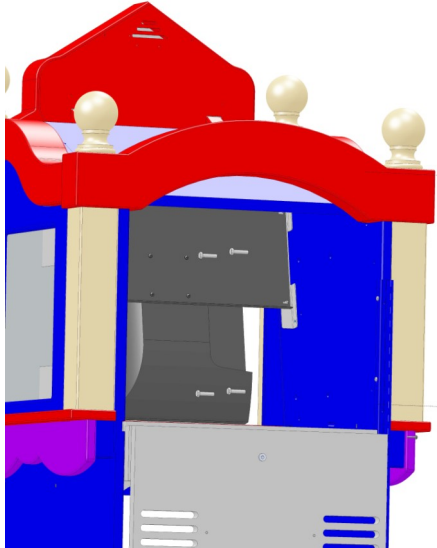
Close the back door and remove the three bolts that hold the top bracket onto the back door.



Step 3:

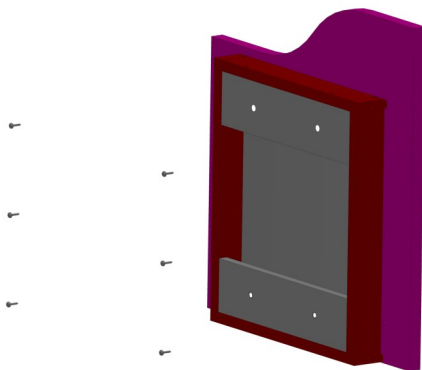
Remove the back side braces by removing four bolts on each side. The mirror sits in a groove at the bottom.

Mirror Replacement - Side Mirror



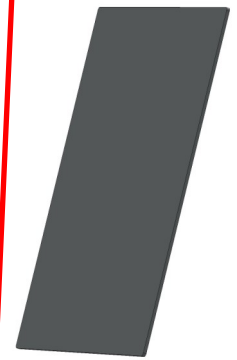
Step 1:

Open the back door and remove the four bolts that hold the side panel onto the cabinet.



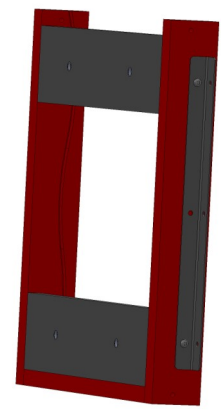
Step 2:

Remove the six screws that hold the side plastic bezel of the side panel.

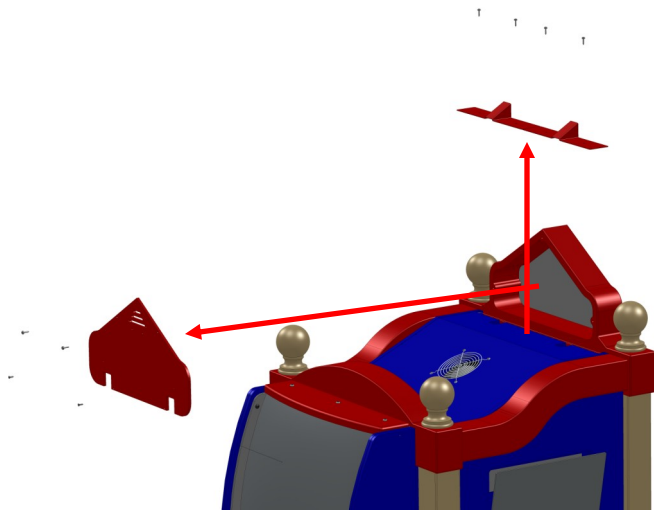


Step 3:

Remove the two screws at the top plastic shown by the small arrows then remove the plastic top. The mirror can slide up and out.

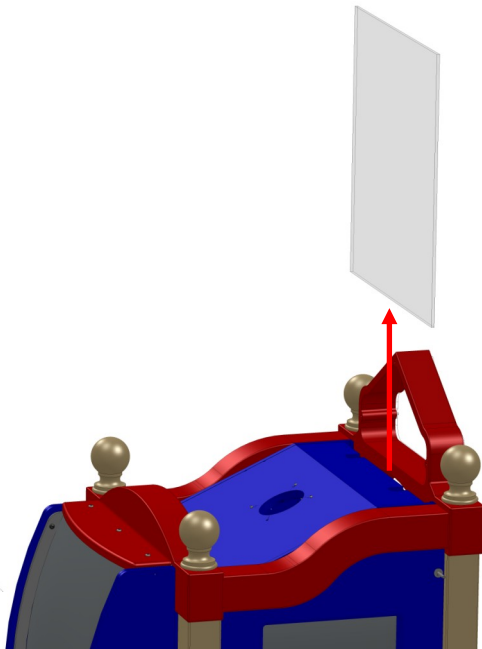


Front Glass Removal



Step 1:

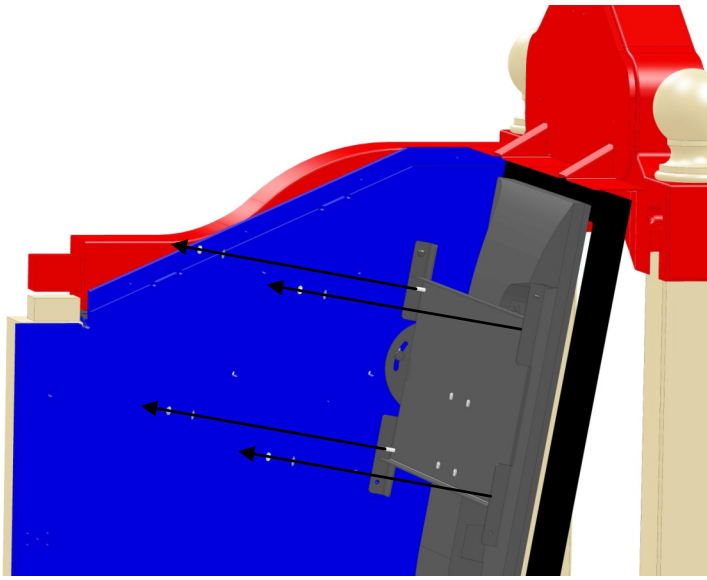
Remove both the top bracket and marquee back panel. To remove the top bracket, remove the four screws shown on the left. To remove the marquee back, remove the four mounting screws.



Step 2:

The mirror is removed by pushing the mirror straight up through the slot that is between the front cabinet and marquee.

Monitor removal

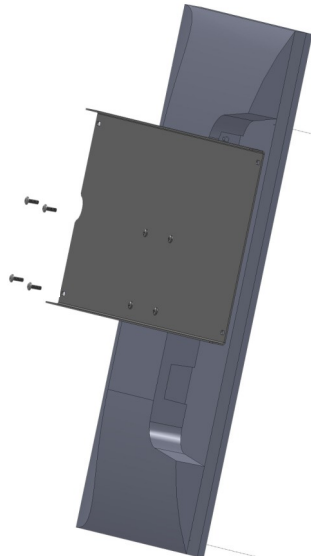
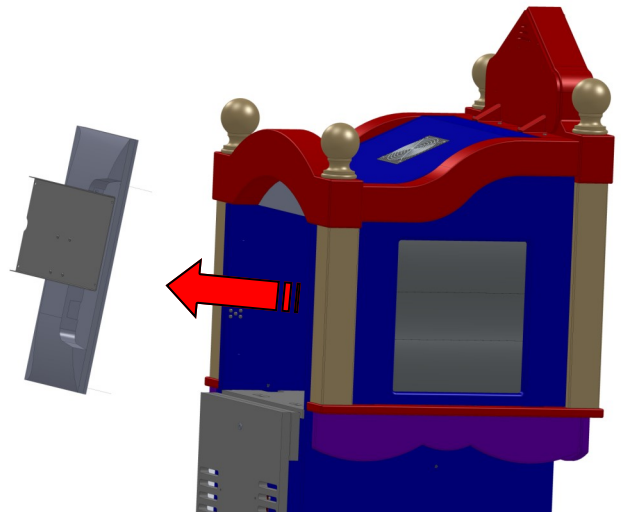


Step 1:

Open the back door and remove the four nuts that hold the monitor mounting assembly plate to the cabinet. The picture shows one side of the cabinet missing for clarity.

Step 2:

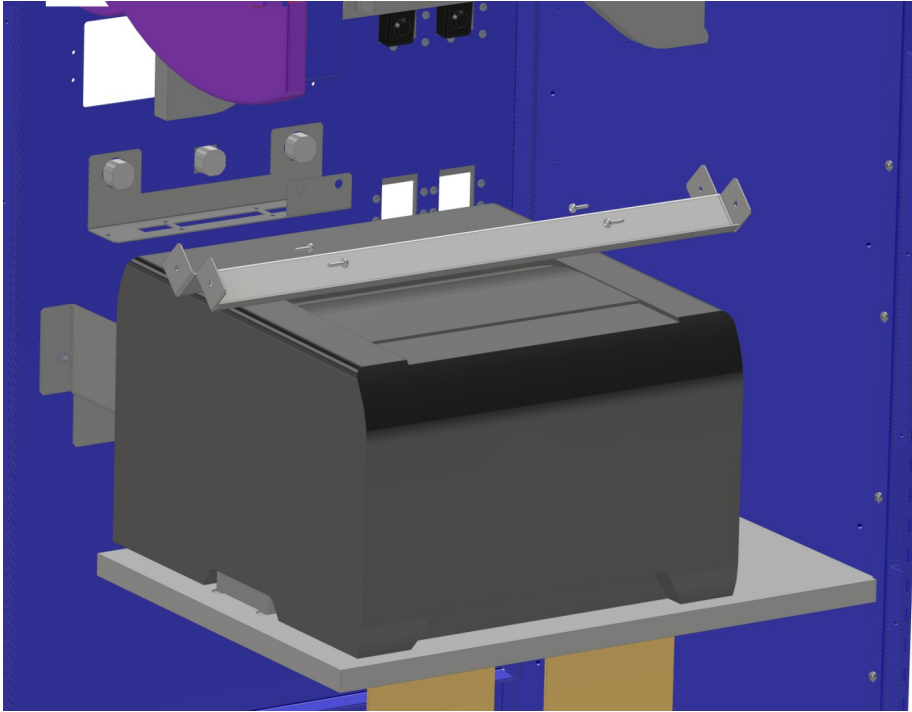
Disconnect the monitor input cable and AC power cord to the monitor and remove the monitor assembly out the back.



Step 3:

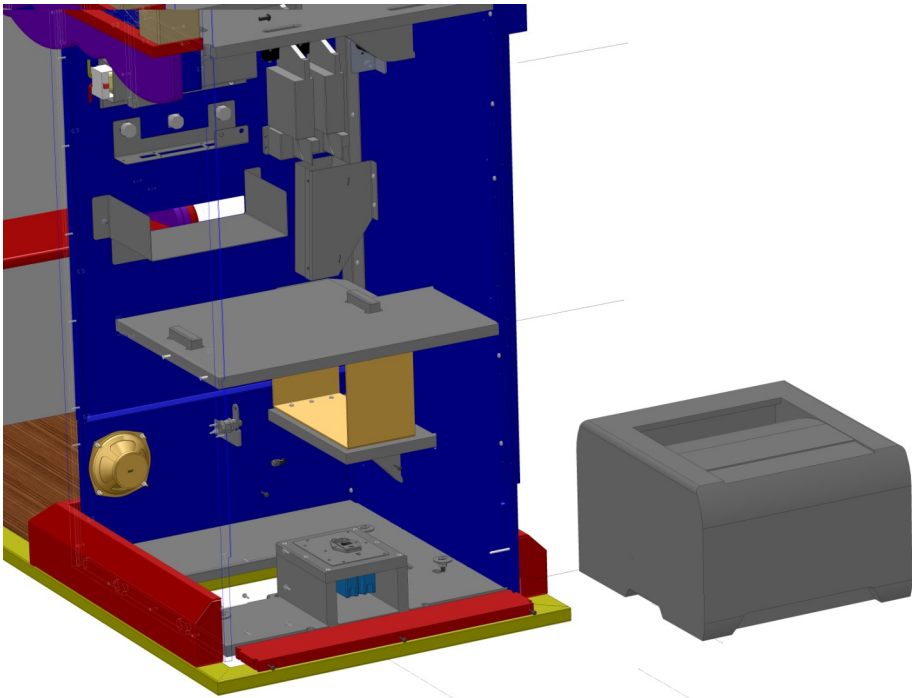
Remove the four bolts that hold the bracket to the monitor .

Printer removal



Step 1:

Open the back door and remove the four screws that hold the mounting bracket that secures the printer to the printer shelf. Disconnect the USB cable and power connector to the printer.

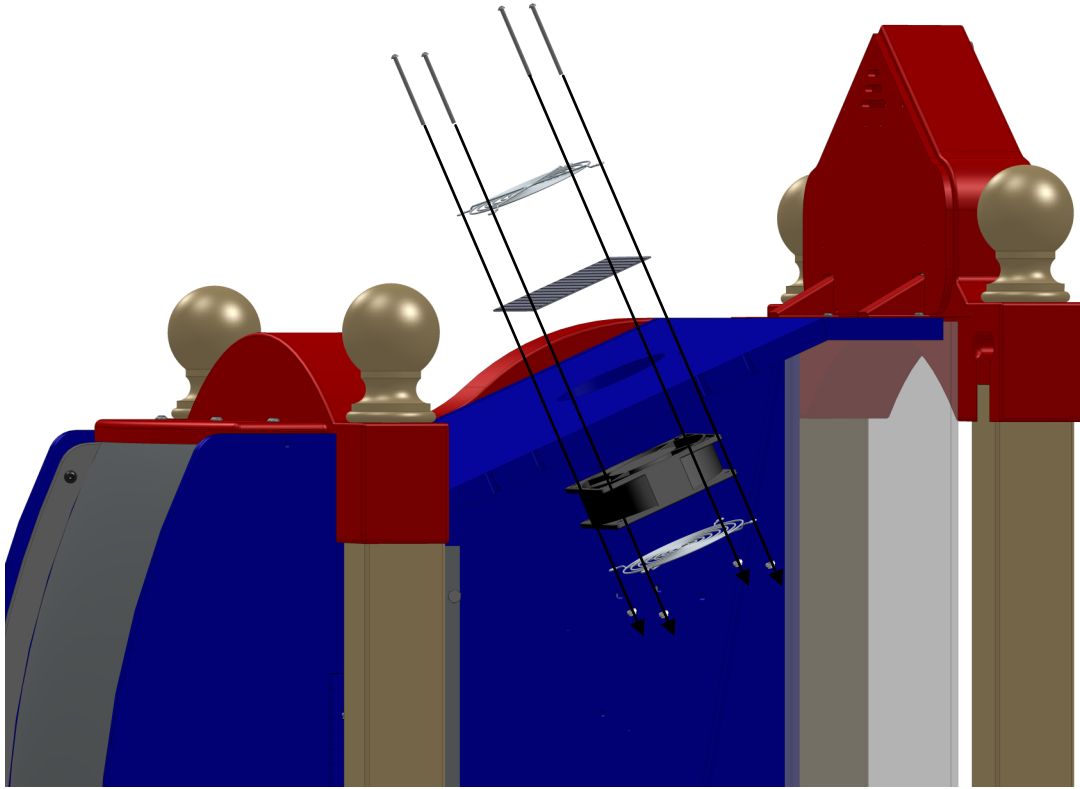


Step 2:

Lift the printer up and over the cleats to remove it from the cabinet.

Central Cabinet Cooling Fan Removal

Open the back door and disconnect the AC power connector to the fan. Use a socket to secure the nut from spinning and remove the four mounting bolts from the top of the cabinet. The fan is removed from inside the cabinet and comes out the back.



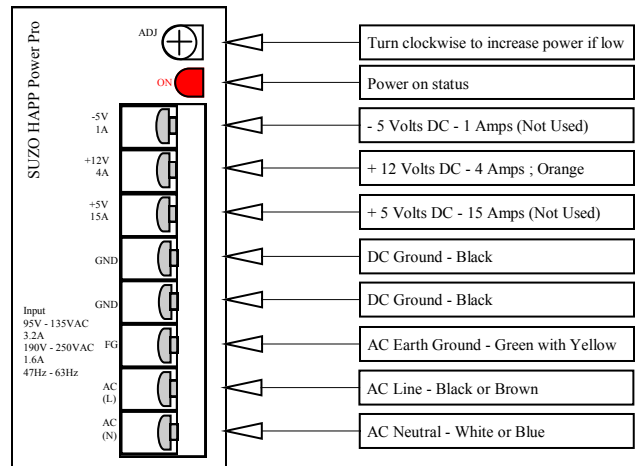
TROUBLESHOOTING

Power supply

The power supply is a ICE part number UC2010. Only the +12 volt output is used.

Orange wires are +12 volts of DC.

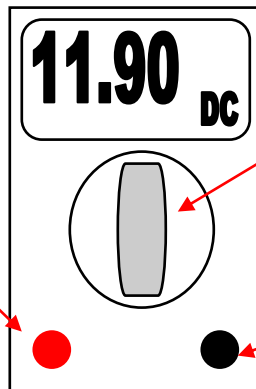
Black wires are grounds.



Checking DC Voltages

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

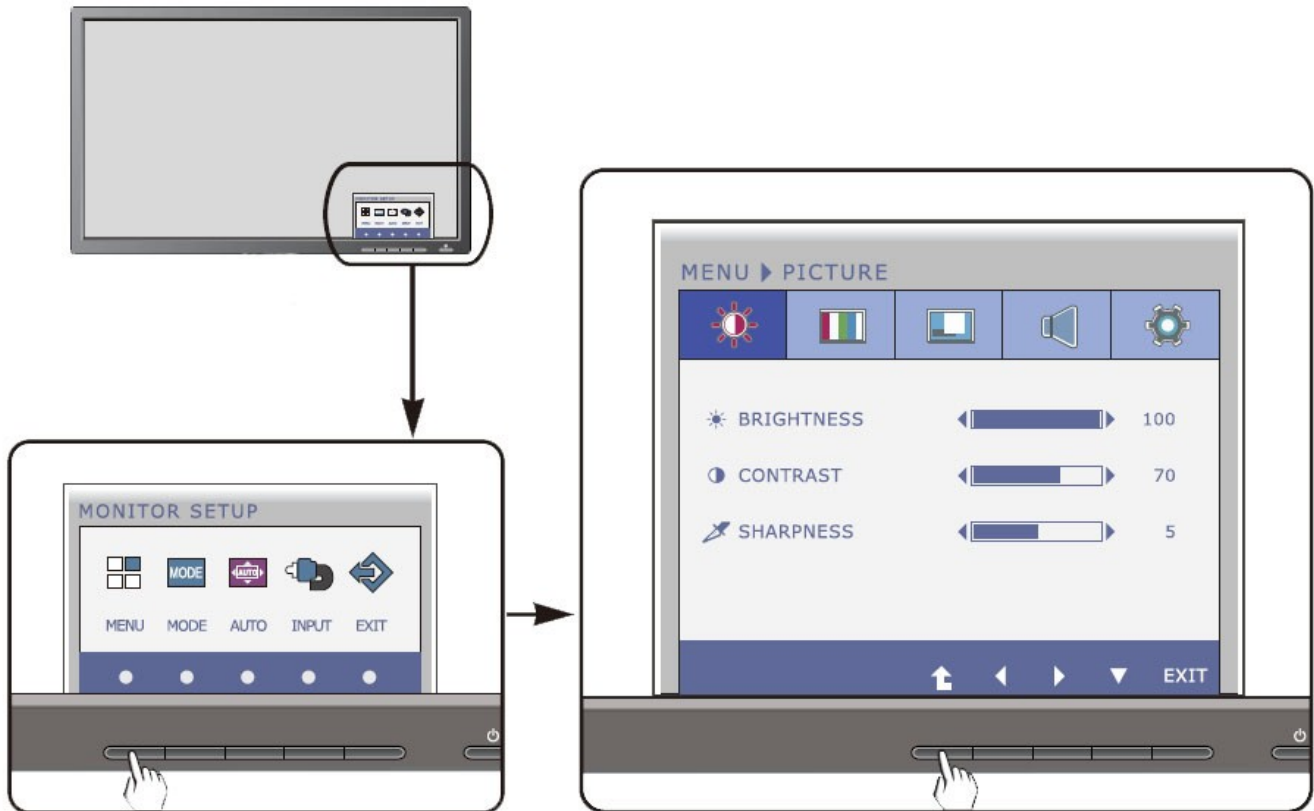
Positive Probe:
Connect to +12V on power supply
(orange wire to power supply)



Turn to DC voltage check

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

Monitor Adjustments



Step 1

Press the discretionary button, then the main menu of the OSD appears.

Step 2

To access a control, use the corresponding buttons.

Step 3

Use the left and right arrow buttons to adjust the image to the desired level.

Step 4

Use the Enter button to select other sub-menu items.

Step 5

Press the exit button to exit the osd.

Computer recovery

Step 1: Open the back door and plug in the keyboard.

Step 2: Turn power on to the game.

Step 3: Press the eject button on the DVD drive.

Step 4: Turn power off on the game, wait 10 seconds, then turn the power back on.

Step 5: Follow the on screen instructions.

Step 6: When prompted, eject the disk and disconnect the keyboard.

Step 7: Turn power off on the game, wait 10 seconds, then turn the power back on.

Computer - Setting the Time & Date

Step 1: Disconnect the USB cable to the computer from the I/O board

Step 2: Connect a keyboard and mouse.

Step 3: Turn off the game, wait 10 seconds, then turn the game back on.

Step 4: When it has loaded to the desktop, left click on the clock located at the top right corner.

Step 5: Change the date and time.

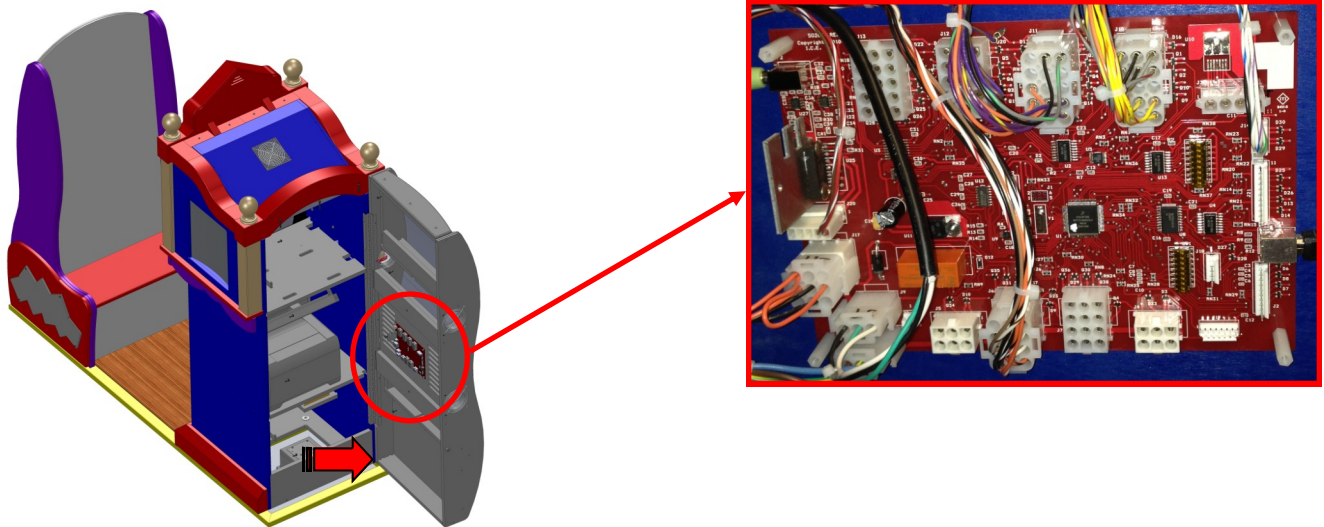
Step 6: Connect the USB cable from the I/O board back into the computer.

Step 7: Turn off game, wait 10 seconds, then turn the game back on.

Step 8: Game will load normally, disconnect the keyboard and mouse at this time.

I/O board replacement

Open the back door to access the I/O board. Unplug all connectors from the I/O board. Each wire connector has a labeled to indicate where it plugs into the I/O board's connectors. Remove the four plastic standoffs found at each corner to remove the I/O board from the cabinet. Reassemble in reverse order.



Marquee illumination

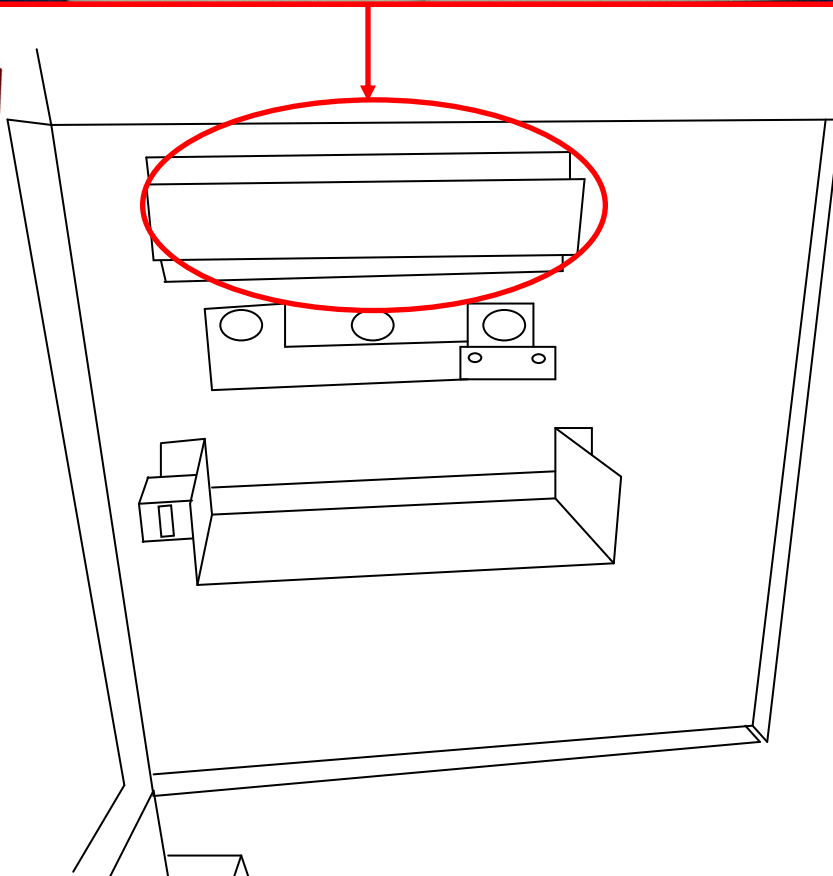
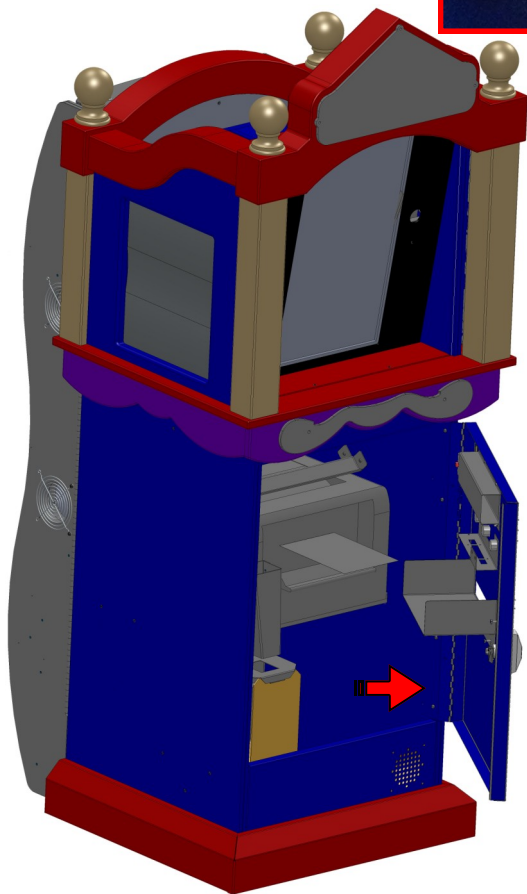
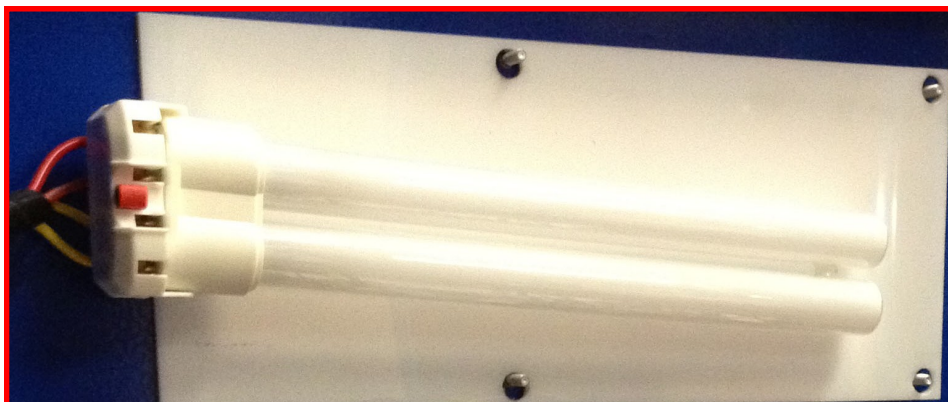
To access the PLL bulbs located in the marquee, remove the 3 bolts that hold the marquee graphic panel to the cabinet. Their location is shown with the arrows below.

WARNING
To Reduce The Risk Of Fire
Use 18 Watt PL-L Bulbs



Door Illumination

Open the front door and remove the metal enclosure to access the PLL bulb that illuminates the player face for the camera to see clearly.



WARNING
To Reduce The Risk Of Fire
Use 18 Watt PL-L Bulbs

Spare Parts List

Mechanical spares:

176	Coin mech (.984/.950)
201	T-molding Chrome 25/32"
CG5014	T Handle lock 8839
PZ3006	Seat mirror
PZ3032	Rear door mirror
PZ3033	Left & Right mirror
PZ3027	Monitor glass
5006	Cash box for over/under door
PZ1034	Paper Tray
PZ1035	Paper Guide

Electronic spares:

2007	Speaker (4" 8 ohm speaker)
E02289	Red push button (volume)
8453	Bulb PL-L 18W/41
BA2000KB	USB keyboard
CG2027	Power cord 9' 10"
E00414PZX	Blue 9 LED strip assembly
MON23LG	Monitor
PZ2090X	Restore Disc
HD2364	120VAC fan for cabinet
PH2000M	USB mouse
PZ2000X	Fun House computer
PZ2001	Printer
PZ2004	Blue square button
PZ2005	Orange square button
PZ2006	Red square button
PZ2007X	10 amp power module assembly
E02259	10 amp fuse, slow blow type
PC20224	12V counter meter
PZ8384X	Ballast assembly work horse 5
SG2034X	USB I/O
UC2010	Power supply
WC2005	Oval yellow button

Graphics decals:

PZ7000	Cabinet left side decal
PZ7001	Cabinet right side decal
PZ7002	Left side seat decal
PZ7003	Right side seat decal
PZ7005	Cabinet front decal
PZ7006	Cabinet lower decal
PZ7007	Cabinet kick plate cover mat
PZ7008	Monitor Plaque mat
PZ7009	Camera test grid
PZ7010	Bezel
PZ7011	Seat back decal



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.

Innovative Concepts in Entertainment

10123 Main St.

Clarence, NY 14031

Phone #: (716) - 759 – 0360

Fax #: (716) – 759 – 0884

www.icegame.com