



# Installation & Owner's Manual



U.S. and Canada; call toll-free: 1-877-ROC\_N\_ROL (1-877-762-6765)

E-Mail: <a href="mailto:support@amientertainment.com">support@amientertainment.com</a> Web: <a href="mailto:www.amietertainment.com">www.amietertainment.com</a>

#### **AMI NGX MINI JUKEBOX WARRANTY**

AMI extends the original operator of this equipment the following warranty:

All parts are guaranteed to be free of defects in material and workmanship for the specific periods listed. AMI agrees to repair or replace without charge during such period any part which proves defective upon examination by AMI. All costs of shipping a defective part to AMI's offices shall be borne by the original operator. AMI shall bear the shipping costs for the replacement of defective parts.

| Component                             | Warranty Period         | <u>Condition</u>                                     |
|---------------------------------------|-------------------------|--|
| · · · · · · · · · · · · · · · · · · · | (from date of shipment) |  |
| Electronic Circuit Boards             | 2 Years                 | Parts  |
| Core Computer Motherboard             | 1 Year                  | Parts  |
| Electrical & Mechanical               | 2 Years                 | Parts  |
| LCD Display                           | 1 Year                  | Parts  |
| Touch Screen Sensor                   | 1 Year                  | Parts  |
| Touch Screen Controller               | 1 Year                  | Parts  |
| Hard Drives                           | Life*                   | *Full Replacement by AMI, at no charge, for the life |
|                                       |                         | of the AMI Entertainment® contract.                  |

In the case of parts supplied to AMI as components, AMI extends the same warranty period as extended by the original manufacturer.

The above warranty applies provided that all parts of the product have been serviced properly as directed in the service manual, and provided the alleged defective part, upon examination by AMI, shall prove to be thus defective. Under no circumstances shall AMI be liable for any incidental, consequential or special damages, losses or expenses arising from or in connection with the use of, or the inability to use, the product for any purpose. AMI reserves the right to make any changes or improvements in its products without notice and obligation, and without being required to make corresponding changes or improvements in products theretofore manufactured or sold.

This warranty will not apply to any product or any part which has been subjected to any accident, abuse, or misuse.

AMI ENTERTAINMENT NETWORK, LLC EXTENDS NO WARRANTY, EXPRESSED OR IMPLIED, TO PURCHASERS OR USERS OF ITS PRODUCTS EXCEPT AS HEREIN SET FORTH, WHETHER BY OPERATION OF LAW OR OTHERWISE.

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### Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 8. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10. Only use the attachments/accessories specified by the manufacturer.
- 11. Use only with the bracket specified by the manufacturer or sold with the apparatus.
- 12. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance servicing instructions in the literature accompanying the jukebox.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

#### WARNING



To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. No objects filled with liquid, such as vases, shall be placed on the apparatus.

#### **AVERTISSEMENT**

Pour réduire le risque d'incendie ou un choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité. Aucun objet rempli de liquide, comme les vases, ne doit être placé sur l'appareil.

#### **CAUTION!**

#### RISK OF ELECTRIC SHOCK. DO NOT OPEN

DO NOT REMOVE ANY COVERS, GUARDS, OR SHIELDS. NO USER SERVICEABLE PARTS ARE INSIDE THIS JUKEBOX. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



#### ATTENTION!



RISQUE DE CHOC ÉLECTRIQUE. NE PAS OUVRIR

NE JAMAIS RETIRER LES COUVERCLES, GARDES, OU DES BOUCLIERS. AUCUNE PIÈCE RÉPARABLE DANS CE JUKEBOX. CONFIER L'ENTRETIEN DE PERSONNEL QUALIFIÉ.

# Section A -Jukebox Specifications

|   | NGX MINI   |
|---|--|
| Dimensions: Uncrated: Height Width Depth Crated: Height Width Depth | 31"<br>18.375"<br>8.5"<br>35"<br>22.5"<br>11.5"        |
| Weight:<br>Uncrated<br>Crated                                       | 75 lbs.<br>90 lbs.                                     |
| Amplifier:<br>Output Power:<br>(Standard)                           | 500 Wrms into 4 Ohm Load                               |
| Protection:   | Thermal and speaker overload Automatic, self resetting |
| Voltage:<br>Frequency:  | 115VAC<br>60Hz   |
| LCD:  | 19" flat screen  |
| Speakers:   | none   |

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# Section B - Placing the Wall-Mounted Jukebox on Location

- Location Power and Warnings
- Jukebox Power and Reset Switch
- Wall Mounting Instructions
- IR Remote Installation Instructions
- Testing the Unit

### **Location Power and Warnings**



The jukebox must have a clean source of properly-phased and grounded 115VAC power at 10 amps max. This MUST be provided 24 hours a day, 7 days a week. The outlet the jukebox is connected to must NOT be controlled by a switch, nor should the circuit breaker feeding it be shut off at night.



If the outlet is not properly phased, grounded, or is connected to an overloaded circuit, it must be corrected by a qualified electrician before using.

The main power distribution unit is the power supply. This device contains a combination main circuit breaker/power switch along with surge protection.

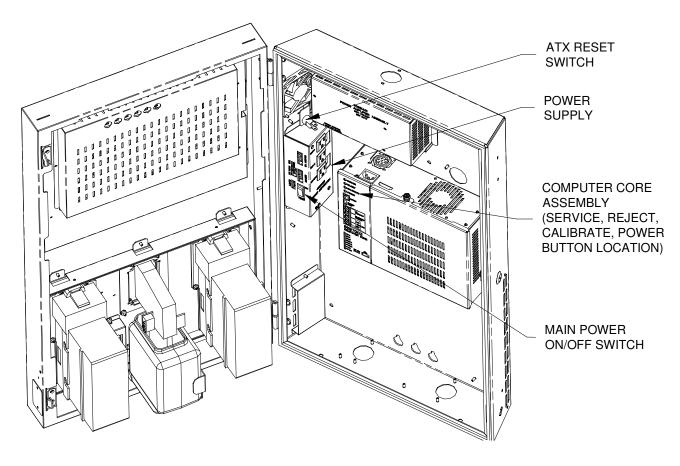


Figure 1-B – Inside View of Cabinet with Front Door Opened

#### Jukebox Power and Reset Switch

The NGX MINI jukebox is powered from a standard 115VAC wall plug using the provided power cord. Inside the jukebox, power is routed to a power distribution assembly located on the left-hand side of the cabinet (see *Figure 1-B*). This assembly includes a combination 15A circuit breaker/power ON/OFF switch. All other components in the jukebox are powered by plugging them into this power distribution assembly.

#### **Soft Power Down**

The Core Computer and other components in the jukebox should remain powered up at all times. However, there may be times when the jukebox needs to be turned off so that customers cannot insert money or make selections. The soft power down mode will give every outward appearance that the jukebox is off by turning off the lights, the LCD display, the bill acceptor(s), and the credit card reader; however, the Core Computer and other internal components remain powered up. There are multiple ways to enter and exit this soft power down mode:

- Core Computer Power Button The button labeled "POWER" on the Core Computer inside the jukebox (see Figure 1-B) is used to enter the soft power down mode. Push it again to exit the soft power down mode.
- IR Remote Control The button labeled "POWER" on the IR remote control transmitter will also toggle the soft power state just like the button described above.
- 6 Button Wired Volume Control This control can be modified to provide a POWER function. See Wired 6 Button Volume Control on page 13 for details.

#### **Computer Core**

The jukebox Computer Core can be powered off by pressing the "SERVICE" button on the Computer Core (see *Figure 1-B*), and then touching "Shutdown Jukebox" on the touchscreen. This will turn off the Computer Core and other components that get their power from the ATX power supply in the Computer Core. To restore power after turning off the ATX power supply, the jukebox must be rebooted. Reboot the jukebox by toggling off the main power ON/OFF switch (see *Figure 1-B*) and then toggling it back on, or by pushing the ATX Reset Switch (see "ATX Reset Switch").

#### **Hard Power Down**

When the jukebox power cord is unplugged or the main power ON/OFF switch is turned off (see *Figure 1-B*), the jukebox is in the hard power down state. All power is removed from all components in the jukebox.

#### ATX Reset Switch

There is a hidden ATX reset switch located inside the cabinet on the upper-left side just below the cooling fan (see *Figure 1-B*). It is accessible by either opening the jukebox door, or by inserting a paper clip, toothpick, or other long, thin object through the access hole on the left side of the jukebox.

 The ATX Reset Switch resets the Computer Core. This is like the reset switch on a PC. Pressing and releasing this switch will cause the computer main board to completely reboot. Use this switch only if the jukebox is completely non-responsive. Additionally, when the Computer Core has been powered down using the "Shutdown Jukebox" option in Service Mode, pushing this button will restart the computer.

### Wall Mounting Instructions

#### **Choosing the Location**

The jukebox must be mounted on a strong, flat wall. It is recommended that a sub panel made from 3/4" plywood or similar material be used and properly shimmed to provide a flat mounting surface. The jukebox should be visible and convenient to use. Do NOT install directly above a radiator or other source of heat. Be sure the speaker wires can be easily run to the unit.

# A

#### WARNING

The mounting of the jukebox on the wall should be done by a qualified installer familiar with wall construction and loading. The wall and installation hardware MUST be capable of supporting a 700 lb. load for the NGX MINI. Failure to follow these instructions could result in serious injury.

Tools and hardware required for normal installation into wood wall studs:

- Socket wrench with 3/8" and 7/16" sockets
- Level
- Pencil
- Punch or awl (to start the lag screws) and/or drill driver
- (4) 1/4" x 1-1/2" lag screws provided

#### **Mounting the Jukebox Cabinet**

- Remove the jukebox cabinet from its packing carton. Open the door, ensure all cables are detached from the door, and then lift the door off of the cabinet. Set the door aside for the moment.
- 2. Install a subpanel or locate a wall stud roughly in the center of where the jukebox will be mounted. See *Figure 2-B*.
- 3. Install the first ½" x ½" lag screw 65" up from the floor. If not using a subpanel, center the lag screw on a wall stud. This should be on the centerline of the jukebox. See *Figure 2-B*.
- 4. Hang the jukebox cabinet on this lag screw using one of the upper keyholes in the back of the jukebox cabinet (see *Figure 2-B*). Ensure the jukebox cabinet is level and mark the wall for the lower keyhole and the mounting holes in the top right and top left of the cabinet (See *Figure 2-B*).

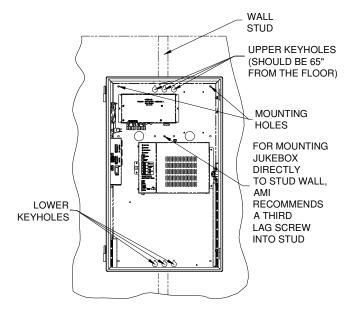


Figure 2-B - Inside View of the Cabinet

5. Remove the jukebox cabinet from the wall, drill pilot holes for the remaining lag screws, re-hang the jukebox cabinet and secure it to the wall using the additional lag screws provided.

**NOTE:** If the wall is concrete, cinder block, brick, or uses metal wall studs, then a subpanel with the appropriate fasteners must be used. At least 4" heavy-duty fasteners (one in each corner) must be employed. The fasteners and subpanel must be able to support a minimum 150 lbs. Do NOT use "press-in" anchors or any other "light" or "medium" duty fasteners. Consult a contractor experienced in the type of construction used if there is any doubt about the strength of the mounting devices.

 Prepare the external wiring. The power cord, speaker wiring, and Ethernet cable can be routed to enter the top or the bottom of the jukebox. Use the block-out plates and nuts to secure the wiring. 8. The front door is secured using slide hinges, which do not require tools to attach. To attach the front door, carefully lift the door, line up the hinge pins on the cabinet with the mating hinge barrels on the front door, and lower the door (see *Figure 3-B*).

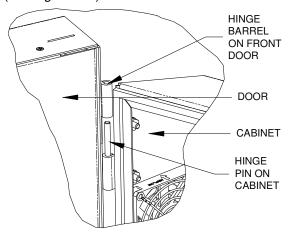


Figure 3-B - Detail View of Top Cabinet Hinge

- Locate the bundle of cables taped to the inside back of the cabinet. Route the cable bundle to the front door and into the cable clamp in the middle of the door near the door's hinge (see Figure 4-B). Connect the LCD power, VGA, and serial cables to the back of the LCD.
- Connect the free end of the credit card reader cable (coming from the USB port on the Computer Core) to the card reader. See Figure 4-B.
- 11. Connect the free end of the cable from the VCU jack on the Computer Core to the light interconnect board (see Figure 4-B).
- 12. Connect the free ends of the 15-pin cables from the cabinet and door together (see Figure 4-B).
- 13. Make sure all cables are dressed properly. Use the cable clamps in the jukebox to keep cables in place. Make sure nothing interferes with opening and closing the door.



LCD POWER CABLE

VGA CABLE

SERIAL CABLE

15-PIN CONNECTORS (FOR BILL, COIN, AND LIGHTS)

CABLE CLAMP USED TO ROUTE WIRES FROM CABINET TO DOOR

LIGHT CABLE CONNECTED BETWEEN LIGHTS INTERCONNECT BOARD AND "VCU" JACK

CREDIT CARD
CABLE
CONNECTED
BETWEEN CARD
READER AND
USB PORT

Figure 4-B – Inside View of NGX MINI Jukebox with Front Door Opened

#### IR Remote Control Installation Instructions

The Continental Video Jukebox comes with an IR remote (located in the Handy Pack). To install, plug the provided cable into the provided IR remote receiver (see *Figure 10-B*) and route the other end of the cable through one of the wire access holes in the cabinet. Connect the end of the cable into the port labeled "IR Receiver" on the Core Computer. Install the IR remote receiver above the jukebox, with a clear line of sight between the receiver and the handheld transmitter. Plug in and turn on the jukebox

and test the remote.

CABLE CONNECTED TO TOP OF RECEIVER

RECEIVER MUST BE INSTALLED WITH SENSORS FACING FRONT

Figure 10-B - IR Remote Receiver

#### Button Functionality on the IR Remote Transmitter

To enable or disable options on the IR remote, see "IR Remote Setup" in the *Network Setup, Jukebox Operation, Operator Setup Screens Manual.* 

#### **REJECT**

This button is used to cancel (or "reject") the selection currently playing, and cancels all (rejects all) selections in the queue if held down for four seconds. This functionality can be enabled and disabled through the software.

#### **POWER**

This button turns the lights, the LCD display, the bill acceptors, and the credit card reader ON/OFF. To turn them back on and resume normal operation, press the "POWER" button again.

#### **VOLUME**

The CH1+ and CH2+ buttons raise the volume. The CH1- and CH2- buttons lower the volume.

The **PLAY** button puts the jukebox in play mode.

The **PAUSE** button puts the jukebox in pause mode for a programmed amount of minutes or until the PLAY button is pushed.

The **AP OFF** and **AP ON** buttons turn any programmed Autoplay mode on/off.

The **FUTURE** button is used to give a remote credit.

The **VID SEL** button is used to enable and disable video selections on the jukebox.

#### Wired 6 Button Volume Control

The Continental Video Jukebox also comes with a small 6 button wired remote control. This control is designed to be mounted close to the jukebox and provides some basic functions.

#### INT.

These buttons change volume for Channels 1 & 2.

#### EXT.

These buttons change volume for Channels 3 & 4.

#### **CANCEL**

This button will cancel the selection currently playing.

#### MUTE

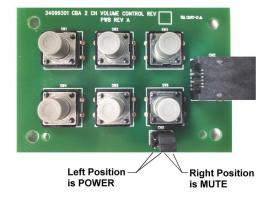
This button toggles the jukebox between PAUSE mode and PLAY mode.



The MUTE button on this remote can be repurposed to function as a POWER button.

Remove the back cover of the remote control then remove the circuit board. There are two shut jumpers located on the board. When these jumpers are both in the right hand position, the MUTE button functions as MUTE.

Move both shunt jumpers to the LEFT hand position to repurpose the MUTE button to function as a POWER button.



### Testing the Unit

#### **Initial Set Up**

When all of the network connections have been made, boot up the jukebox. The first time you turn on the jukebox with a new hard drive, you will see the Local Music Configuration Screen, which lists the available local music configurations that can be installed on the jukebox. You will be prompted to select one of the available lists. This selection can be changed at any time by pressing the SERVICE button on the Computer Core, and then touching System Setup -> Advanced Administration -> Local Music Configuration.

Touch the **View** button to display a dialog box listing all of the albums in the selected list. Some albums may appear grayed out; this means that some or all of the songs in the album are not currently stored on this jukebox. If a list with grayed albums is installed, the grayed albums will start being downloaded to the jukebox within 24 hours (as long as the jukebox is connected). If the jukebox becomes disconnected, any songs not yet downloaded will be unavailable to patrons.

Touch the **Install** button to display a dialog box prompting you to install the selected list. To install the selected list, touch the Install button at the bottom of the dialog box.

# Testing the Touchscreen, Bill and Coin Acceptor(s), and Credit Card Reader

**Touchscreen** – Every time a new hard drive is installed, the touchscreen should be calibrated.

Follow these steps to calibrate.

- 1. Press the "CALIBRATE" button on the Computer Core (see *Figure 1-B*) to launch the calibration program.
- 2. Close the jukebox door and make sure it is locked.
- Follow the directions on the screen, touching the center of the targets, and then touching different areas on the screen. If the cursor follows your movement, touch YES to exit.

#### Bill/Coin Acceptor(s) and Credit Card Reader -

(NOTE: Credit Card functionality requires a broadband Internet connection).

- 1. Press the "SERVICE" button on the Computer Core to enter Service Mode.
- 2. Touch the **Diagnostics** button.
- 3. Touch Credit Device Tests.
- 4. To test the bill acceptor(s), insert a \$1, \$5, \$10, and \$20 bill (into each bill acceptor, if the jukebox

- has two) and check the screen to make sure proper credit is awarded.
- To test the coin acceptor, deposit U.S. quarters into the coin slot and verify proper credit is awarded.
- 6. To test the credit card reader, swipe a valid credit card and check that the screen displays the last four digits of the credit card.
- When finished, touch the **Back** button to return to the Main Menu.

#### **Testing the Network**

Enter Service Mode by pressing and releasing the "SERVICE" button on the Computer Core. To test the network:

- Touch the System Setup button on screen and then touch Advanced Administration.
- On the Advanced Administration Screen, touch Configure Server. Then touch the Test Connection button. This test confirms the jukebox can connect to AMI's server ("Server Found"), and authenticate a connection with AMI's server ("Connected").
- If the connection is successful, you will see "Yes" next to "Server Found" and "Connected". If the connection fails, you will see "No". If the connection fails, check the settings on the Network Information Screen (Diagnostics -> Network Information). This screen will allow you to check the IP Configuration and run LAN and WAN tests.

#### **Testing the Audio**

**NOTE**: For operators pre-testing the jukebox in their own facility, any features in the application associated with the network will not work unless the jukebox is connected to the Internet.

- If the jukebox is not in Service Mode, press the "SERVICE" button on the Computer Core to enter Service Mode.
- Add one (or more) credits to play a song and test the audio. Touch Cash Management and then touch Credit Management.
- Touch the box under "Credits" and a pop-up box will display.
- 4. Touch Clear to remove the "0" from the box.
- 5. Touch 1 (or more) and then touch Update.
- 6. Touch Save on the Credit Management Screen.
- 7. Touch Exit Service Mode.
- 8. After connecting speakers to the jukebox (see section C), play a local music selection to test the audio.

### **Lighting Controller**

The NGX MINI lighting assembly can be programmed for several different modes of operation. By default, the lighting assembly is set to slowly cycle through six different colors with a slow transition between each color.

To change the mode, open the main door of the jukebox. The lighting assembly will swing open with the door. Use a Philips screwdriver and remove the LED controller cover from the back right side of the lighting assembly. This exposes the LED controller.

There are two blue pots on the board marked **BRIGHT** and **SPEED**. These are used to set the brightness of the LEDs and adjust the speed of color changes for the two-color cycling modes.

The four position DIP switch is used to set the operating mode of the controller. Use the following table to set the mode.

| SW1 | SW2 | SW3 | SW4 | Mode   |  |  |
|-----|-----|-----|-----|--|--|--|
| OFF | OFF | OFF | OFF | Cycle – slow transition through colors (default) |  |  |
| OFF | ON  | OFF | OFF | Blue   |  |  |
| OFF | OFF | ON  | OFF | Cyan   |  |  |
| OFF | ON  | ON  | OFF | Green  |  |  |
| OFF | OFF | OFF | ON  | Cycle – quick transition through colors          |  |  |
| OFF | ON  | OFF | ON  | Yellow   |  |  |
| OFF | OFF | ON  | ON  | Magenta  |  |  |
| OFF | ON  | ON  | ON  | Red  |  |  |
| ON  | OFF | OFF | OFF | White  |  |  |



### Section C -Sound System Set Up

- Extension Speaker Operation
- Selecting Speaker Power
- Speaker Connection Diagrams

### Sound System Set Up

The NGX MINI jukebox sound system is powered by an ICEpower 250ASX2 Class 2 power amplifier manufactured by Bang & Olufsen. Speaker terminals are provided to connect extension speakers directly to the amplifier. An Audio Output Transformer Kit (part number 22180806) is available if your installation uses 70 volt speakers or you need to connect extension speakers using various power taps.

#### **Extension Speaker Operation**

To avoid poor sound quality, care must be taken when adding extension speakers. The following requirements must be met:

- Speakers connected to the amplifier must be wired so the power consumed by the extension speakers does not exceed the amplifier power rating of 250 watts per channel.
- Complete the Extension Speaker Worksheet (*Table 1-1*) for each channel and verify it does not exceed the 250 watt amplifier channel rating. After wiring the speakers, perform the Amplifier Overload Check immediately following *Table 1-1*.
- All speakers must be connected with the correct polarity (see Figure 1-A).
- Do not bridge output channels.

#### **Low Impedance Speakers**

Low impedance speakers (16, 8, or 4-ohm) can be used when the connecting cable is less than 100 feet. Keep the following two things in mind when wiring your speakers:

- 1. No more than one 4-ohm speaker should be connected to a speaker line. If several 4-ohm speakers are to be used, each speaker should have its own line.
- 2. The loss in 100 feet of 18-gauge zip-cord feeding on an 8-ohm speaker is 15%. The loss for two 8-ohm speakers is 30%.

### **Selecting Speaker Power**

#### **General Instructions**

This section will lead you through the power and speaker selection process. This process consists of three major steps and several smaller steps. The major steps are:

- 1. Identify the extension speakers and compute the speaker power for speakers connected directly across the amplifier.
- 2. Make the extension speaker connections.
- 3. Perform an amplifier overload check (see instructions immediately following *Table 1-1*).

#### **Selection Procedures**

- Use a pencil (you may want to revise your figures) to fill in the Extension Speaker Worksheet on the following pages.
- Use the *Table 1-1* Worksheet to help you calculate the amount of power consumed by the extension speakers.
- An extension speaker RMS power rating should be at least 10% higher than the power it will consume at maximum jukebox volume.

| When RMS power to speaker at maximum jukebox volume is: | Then recommended RMS power rating of speaker is: |
|---|--|
| 240 watts   | 300 watts  |
| 120 watts   | 150 watts  |
| 60 watts  | 75 watts   |
| 30 watts  | 40 watts   |

# Table 1-1 – Extension Speaker Worksheet Sheet 1

#### Extension Speakers Connected to Amplifier Channel + and – terminals

Place the quantity of speakers in the blank under **Qty** and multiply the quantity times the power consumption. Place your results in the blank under **Total**.

|  | Qt             | у                                | Total |       |  |
|--|----------------|----------------------------------|-------|-------|--|
|  | CH 1           | CH 2                             | CH 1  | CH 2  |  |
| Two 8-ohm speakers in series: (30 watts to each speaker) |                | at 60 watts per series =         |       | watts |  |
| Two 4-ohm speakers in series: (60 watts to each speaker) |                | at 120 watts per series =        |       | watts |  |
| 8-ohm speakers:  |                | at 120 watts each =              |       | watts |  |
| 4-ohm speakers:  |                | at 240 watts each =              |       | watts |  |
|  | Total Load, su | um Total columns for CH1 and CH2 |       | watts |  |

#### **Amplifier Overload Check**

Check that the amplifier is not overloaded by performing the following steps:

- 1. Make sure that the extension speakers are connected to the amplifier terminals properly (Channel 1 + and Channel 2 + -).
- 2. If the red OVERLOAD LED is always lit, the amplifier is overloaded and will shut down. You must perform Step 3.
- 3. Do this step only if the OVERLOAD LED came on as described in Step 2.
  - Find the source of the overload (shorted speaker wires, shorted speaker, too many speakers connected).
  - After you fix the short, disconnect a few speakers to reduce the wattage. Repeat Step 2.
  - If no overload is detected, reconnect the disconnected speakers (ensure you do not have too many speakers, use Table 1-1). Repeat step 2.

# NOTE: SPEAKER WATTAGE SHOWN IS RATING OF SPEAKER

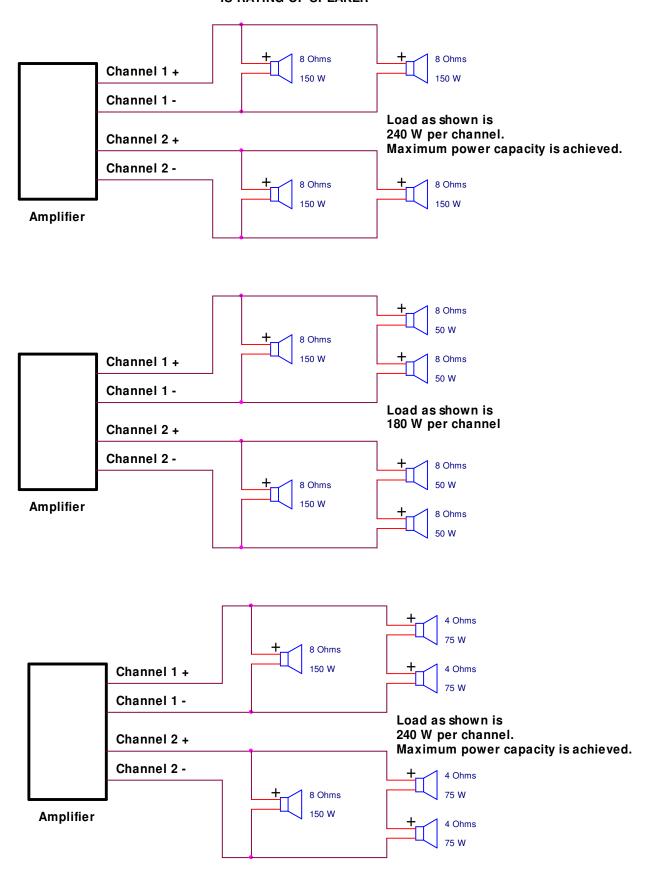
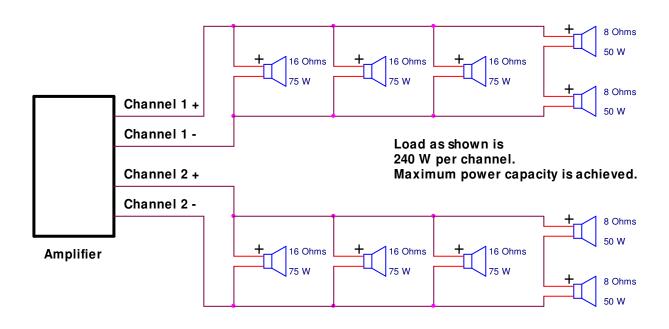


Figure 1-C

# NOTE: SPEAKER WATTAGE SHOWN IS RATING OF SPEAKER



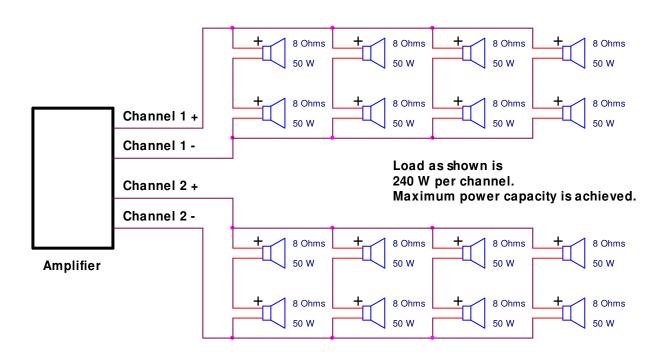


Figure 1-C (continued)

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### Section D -Service & Maintenance

• Recommended Routine Maintenance

#### Recommended Routine Maintenance

Heat is the biggest enemy of electronic components. Proper maintenance is essential for maximum earnings and reliability.

It is very important to keep all cooling fans clean. Once dust and dirt is visible on a cooling fan, the airflow is reduced by at least 25%. There are several cooling fans in the cabinet (see *Figure 1-D*).

#### Recommended preventative maintenance

#### **Routine Service**

The following steps take about 3 minutes and should be performed at each collection.

- Check the CPU fan from the "Health Status" Screen.
- 2. Ensure the cabinet fan on the upper-left side of the cabinet is blowing air out and the fan looks clean. See *Figure 1-D*.
- Be sure that nothing is resting on top of the unit or otherwise blocking the airflow around the machine.

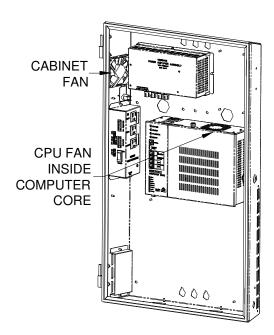


Figure 1-D - Inside View of Cabinet

#### Collecting from the Bill Acceptor

- 1. Unlock and open the front door.
- To remove the bill stacker, slide the tab on the back of the bill acceptor towards the front door and push the stacker forward and then upward.
- 3. Open the side door on the bill stacker to remove the cash.

- 4. Slide the bill stacker back on the bill acceptor. Be sure the green light is on (for MEI, make sure the green lights/arrows are flashing).
- 5. Close and lock the jukebox door.

#### **Minor Service**

Perform these steps a minimum of every 3 months if operating more than 14 hours per day, operating where smoking is allowed, or operating in a dusty environment. Perform these steps a minimum of every 6 months if operated less than 14 hours per day and in a very clean environment. You will need a new, soft 2" paintbrush\*.

- 1. Gently brush\* dirt from the cabinet cooling fan. Verify fan operation.
- 2. Brush\* dirt from the amplifier fan. Verify fan operation.
- 3. Check the operation of the CPU fan from the "Health Status" Screen.
- 4. Listen to the CPU fan for excessive noise or vibration.
- 5. Clean the bill acceptor with an approved cleaning card.
- 6. Clean the credit card reader with an approved cleaning card.
- 7. Clean and calibrate the touchscreen (see the next page for calibration instructions).

#### Cleaning the Touchscreen

Any standard glass cleaner can be used to clean the touchscreen. Always spray the glass cleaner on the cloth or towel and not directly on the touchscreen. Glass cleaner sprayed directly on the screen could possibly leak inside and cause damage.

#### **Cleaning the Door Panel**

The door panel is made of polycarbonate. We recommend cleaning with a mild cleaner and a soft cloth to avoid scratching the surface.

#### **Annual Service**

The following steps should be performed every year in addition to everything in the minor service section.

- 1. Vacuum the interior of the cabinet and fans.
- 2. Inspect the power cord for fraying or damage.
- 3. Check the power ground.
- 4. Check all LAN connections and wiring.
- 5. Listen to all speakers to make sure they are operating correctly.

Scheduled maintenance always costs less time and money than an unscheduled breakdown.

#### Calibrating the Touchscreen

Every time a new hard drive is installed, the touchscreen should be calibrated. Follow these steps to calibrate.

1. Press the "CALIBRATE" button on the Computer Core (see *Figure 2-D*) to launch the calibration program (see *Figure 3-D*).

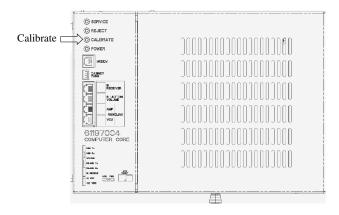


Figure 2-D - Computer Core



Figure 3-D - Calibration Screen

- 2. Close the jukebox door and make sure it is locked.
- Follow the directions on the screen, touching the center of the targets, and then touching different areas on the screen. If the cursor follows your movement, touch YES to exit.

#### **Hard Drive Replacement**

- 1. Turn off and unplug the jukebox.
- 2. Loosen the thumbscrew securing the cover on the Computer Core and slide it off (see *Figure 4-D*).

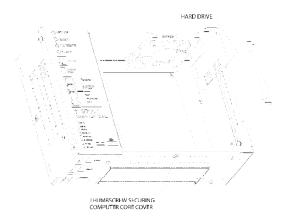


Figure 4-D - Computer Core

- 3. Carefully slide the hard drive tray out of the assembly as far as cabling will allow.
- 4. Disconnect the SATA power and data cables from the drive.
- 5. Connect the SATA power and data cables to the new hard drive.
- Slide the hard drive back into the assembly. Make sure not to pinch any cables while doing so.
- 7. Replace the Computer Core cover and secure it with the existing thumbscrew.

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## Section E -Troubleshooting

- LED Indicators
- Troubleshooting Chart
- Connection Diagrams

#### LED Indicators

The LEDs are described below to help you isolate a problem.

#### **COMPUTER CORE ASSEMBLY (61197002)**

**USB Tx LED** – It should be flashing, indicating good communication between the motherboard and the I/O board.

**USB Rx LED** – It should be flashing, indicating good communication between the motherboard and the I/O board.

**STATUS LED** – Flashes three times on power up, but otherwise it should be off.

**RS485 Tx LED** – It should be flashing, indicating good communication between the I/O board and Rowelink devices such as the Amplifier and Volume Control Units.

**RS485 Rx LED** – It should be flashing, indicating good communication between the I/O board and Rowelink devices such as the Amplifier and Volume Control Units.

**IR RECEIVER LED** – Flashes when an IR signal is received.

**+5VDC** – Indicates this voltage from the ATX power supply is present.

+12VDC – Indicates this voltage from the ATX power supply is present.

**HDD LED (RED)** – Flashes when the motherboard is accessing data on the hard drive.

PWR LED (GREEN) – When lit, indicates the power supply in the core computer assembly is on.

#### POWER SUPPLY ASSEMBLY (40991404)

**POWER (Green)** – When lit, indicates power is applied to the Amplifier.

**STATUS (Red)** – Indicates the status of the Preamplifier/Amplifier, normally on.

**COM (Green)** – Quick flashes indicate communication with the Core Computer is OK.

**MUTE (Red)** – Indicates the mute status of the Amplifier (On = muted, Off = not muted)

**OVERCURRENT** – When lit, indicates the Amplifier is overloaded. Verify speaker load and ensure there are no shorted speaker wires.

**THERMAL** – When lit, indicates the Amplifier is overheating. Be sure the cabinet fan(s) are working, the filters are clean, and nothing is blocking air flow through the cabinet.

#### Preamplifier STATUS - normal operation

The STATUS LED is used to indicate the status of the preamplifier. Under normal conditions the STATUS LED will flash once on power up, stay off for a second, and then turn back on and stay on. If either of the two microphone inputs become active, either by activation of the SENSE line or by the Voice Activation Circuits, the STATUS LED will blink on and off at a 150ms rate until the microphone circuits become inactive.

#### Preamplifier STATUS - error conditions

The STATUS LED is used to indicate possible faults on the preamplifier board. During power up, the preamplifier runs a self test. If a fault is detected, the STATUS LED is used to indicate what may be wrong. The LED will repeat a pattern of a specific number of blinks.

The blink pattern is 500ms on, 500ms off and then one to seven quick 100ms on blinks, three seconds off. The blinking pattern will repeat until the preamplifier is reset or power is turned off.

| Number of blinks | Problem Description                               |  |  |  |
|------------------|---|--|--|--|
| 1                | Digital Audio Processor did not come out of RESET |  |  |  |
| 2                | Digital Audio Processor COM error                 |  |  |  |
| 3                | EEPROM COM error                                  |  |  |  |
| 4                | Digital Audio Processor memory load error         |  |  |  |
| 5                | EEPROM data error                                 |  |  |  |
| 6                | Digital Potentiometer COM error in Mic circuit    |  |  |  |
| 7                | I <sup>2</sup> C SDA line is stuck low            |  |  |  |

If the DAP fails during normal operation, after power up the STATUS led will start to blink one second on, two seconds off, continuously until power is cycled or until the DAP failure goes away.

### **Troubleshooting Charts**

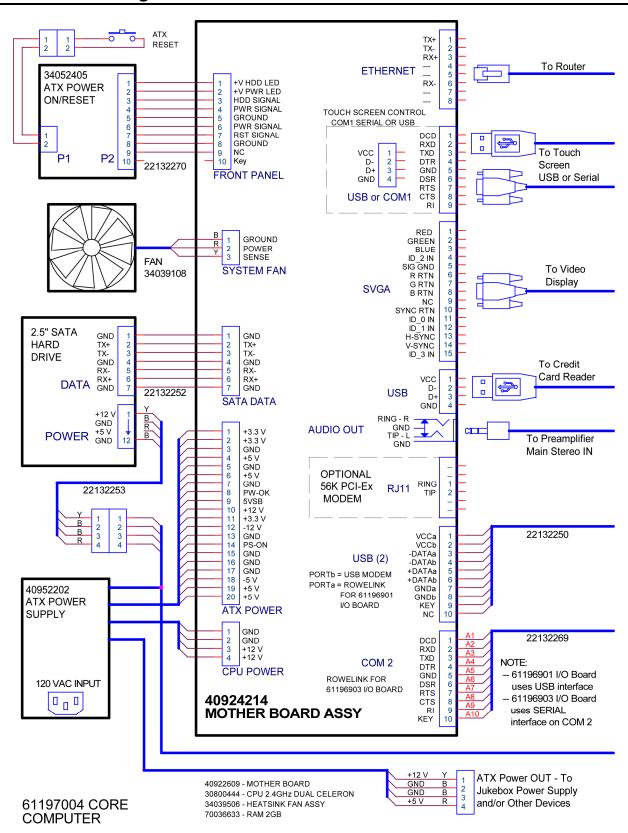
The best way to isolate a problem is to determine its cause. The following charts should help to narrow down which module is failing and whether it can be fixed or it needs to be replaced.

Start with finding the "Problem" column that relates the closest to the problem you are experiencing and then match it to the closest "Symptom". There can be many "Probable Causes" listed for each Symptom. The Probable Causes are listed in decreasing order of probability.

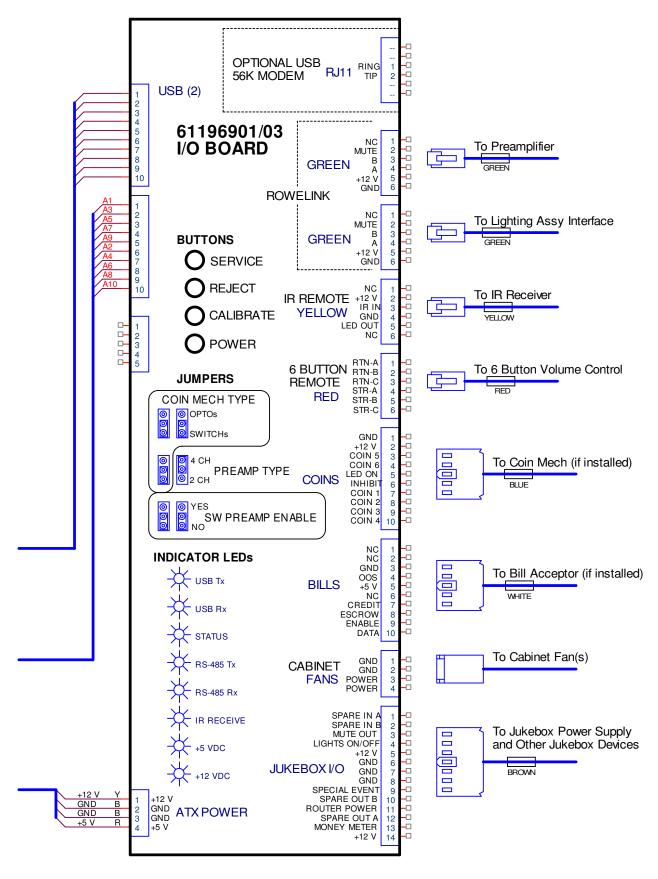
| PROBLEM  | SYMPTOM  | PROBABLE CAUSE  |
|--|--|---|
| The Windows operating system does not boot up.                           | At the first boot up screen,<br>"Detecting IDE Primary<br>Master" reports "None".              | <ol> <li>There is no hard drive in the Computer Core.</li> <li>The plugs are not completely seated in the hard drive.</li> <li>The data cable or power cable has come loose from<br/>the motherboard or hard drive.</li> </ol>  |
|  | The boot up process stops<br>at "DISK BOOT FAILURE,<br>INSERT SYSTEM DISK<br>AND PRESS ENTER." | <ol> <li>There is no hard drive in the Computer Core.</li> <li>The data cable or power cable has come loose from<br/>the motherboard or hard drive.</li> <li>The hard drive is faulty.</li> </ol>   |
| The LCD<br>screen stays<br>dark when<br>the jukebox<br>is powered<br>up. | The PWR LED on the Computer Core does not light.   | <ol> <li>The plug is not completely inserted into the outlet.</li> <li>The wall circuit is not "hot".</li> <li>The ON/OFF switch on the power supply is in the OFF position.</li> <li>The ATX power supply in the Computer Core is faulty.</li> </ol>   |
| up.  | The LEDs on the Computer Core come on, but the screen stays dark.                              | <ol> <li>The power plug to the display is not seated completely.</li> <li>The power distribution assembly is defective.</li> <li>The LCD is faulty.</li> </ol>  |
| The LCD<br>briefly shows<br>"NO CABLE"<br>or "NO<br>VIDEO<br>SIGNAL".    | The computer fan is on and all system's LEDs and lights are normal.                            | <ol> <li>The video cable wiring is not seated completely.</li> <li>The LCD is defective.</li> <li>The Computer Core is defective.</li> </ol>  |
| The touchscreen does not work.   | The application boots up, but the touchscreen does not respond to touch.                       | <ol> <li>The USB cable is not seated completely at the LCD or<br/>at the Computer Core.</li> <li>The touchscreen is not calibrated.</li> <li>The touchscreen is defective.</li> </ol>   |
| The touchscreen will not   | Nothing happens after pressing the calibration button.   | <ol> <li>The I/O interface board in the Computer Core is faulty.</li> <li>The hard drive is faulty.</li> <li>The Computer Core is faulty.</li> </ol>  |
| calibrate.   | The calibration program runs, but will not respond to touch.                                   | <ol> <li>The USB cable plug is not fully seated at the LCD or at the Computer Core.</li> <li>The touchscreen controller is faulty.</li> <li>The touchscreen sensor (glass) is faulty.</li> <li>The motherboard in the Computer Core has failed.</li> </ol>  |
| No music<br>from<br>jukebox.   | No sound from jukebox, although the application reports "Now Playinga New Song."               | <ol> <li>Volume control is turned all the way down.</li> <li>The audio mode input routing or muting is configured incorrectly.</li> <li>Audio cables are disconnected or loose from the Computer Core or the preamplifier.</li> <li>Volume control is broken.</li> <li>The amplifier is overloaded and shutdown.</li> </ol> |
|  | No sound from jukebox and the application doesn't appear to be playing the song selected.      | There are no more credits available for play.     Reject song was activated.  |

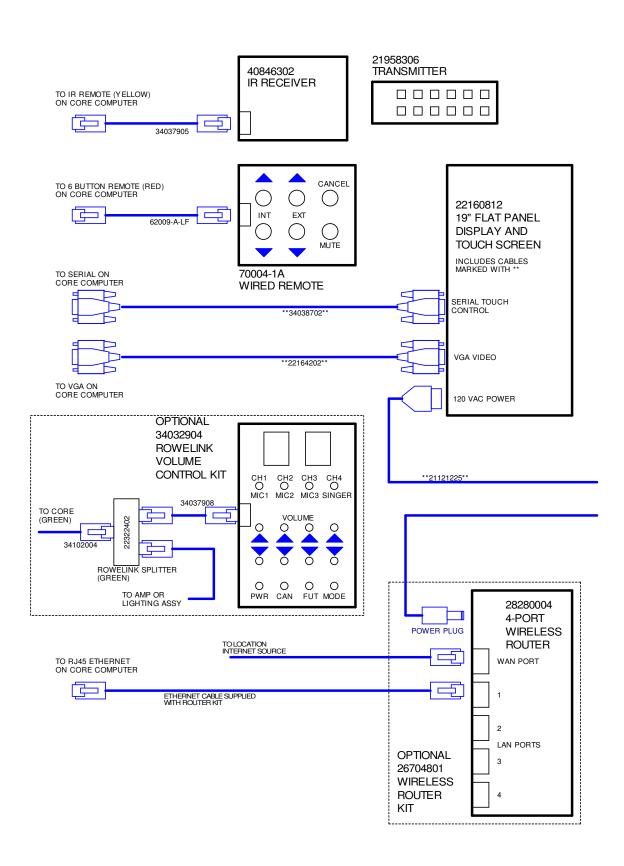
| PROBLEM  | SYMPTOM   | PROBABLE CAUSE   |
|--|---|--|
| Machine is locked up during normal runtime.                      | Bill acceptor is taking money but credits are not accumulating, the touchscreen is not responsive, and I/O board LEDs are not flashing. | The Computer Core is locked up. Reboot it by pressing and releasing the ATX Reset Switch. If the Computer Core does not boot up, perform a complete Power Down and Power Up.   |
| The bill acceptor does not work.                                 | Lights on the bill acceptor are lit, but the bill acceptor will not accept a bill.  The lights on the bill acceptor are not flashing.   | <ol> <li>The bill acceptor bill box is full.</li> <li>The bill box was not re-installed on the bill acceptor correctly.</li> <li>There is a jammed bill in the device.</li> <li>The plugs are not inserted securely at the acceptor.</li> <li>The bill acceptor is defective.</li> <li>The cable is damaged at the acceptor.</li> <li>The jukebox has disabled the bill acceptor. Put the jukebox into normal operating mode.</li> </ol> |
| Location<br>network line<br>not installed<br>in the<br>location. | There is no designated broadband line installed in the location.  | <ol> <li>The bill acceptor is defective.</li> <li>The inside wiring installation appointment was not scheduled.</li> <li>The inside wiring installation has not occurred.</li> <li>The line was not installed in the pre-selected location.</li> <li>The line (jack) was not labeled by the technician.</li> </ol>   |
| Router does not work.  | When the power supply is connected to the router, nothing happens.  | <ol> <li>The AC power plug is not fully inserted in the receptacle<br/>on the back of the router.</li> <li>Router reset circuit in power distribution assembly is<br/>defective.</li> </ol>  |
|  | The "Link/Act #" light (on the front of the router) does not light up when an Ethernet cable is plugged in the respective port.         | The cable is loose at the Computer Core or router.     The jukebox is not powered on.     The Ethernet port is defective.  |
|  | The WAN light does not light up.  | <ol> <li>The broadband connection is not plugged into the WAN port.</li> <li>The cable modem or DSL modem is not powered on.</li> </ol>  |
| The "Music<br>On<br>Demand"<br>feature does<br>not work.         | The feature has never worked in the location before.  | <ol> <li>There is no Ethernet cable connection between the router and the jukebox.</li> <li>The Ethernet cable is not fully seated in the port on the Computer Core or in the back of the router.</li> <li>The connection is loose between the installed line and the router.</li> <li>The cable is bad.</li> <li>The Internet line is down.</li> <li>The hard drive trigger code was not entered.</li> </ol>                            |
|  | The feature did work at one time, but is no longer available.   | <ol> <li>The connection has become loose between the router and the jukebox.</li> <li>The connection has become loose between the installed line (jack) and the router.</li> <li>All the lights on the front of the router are ON.</li> <li>The router was shut off or lost power.</li> <li>The Internet service provider (ISP) is down.</li> <li>The AMI Entertainment server is down.</li> </ol>                                       |

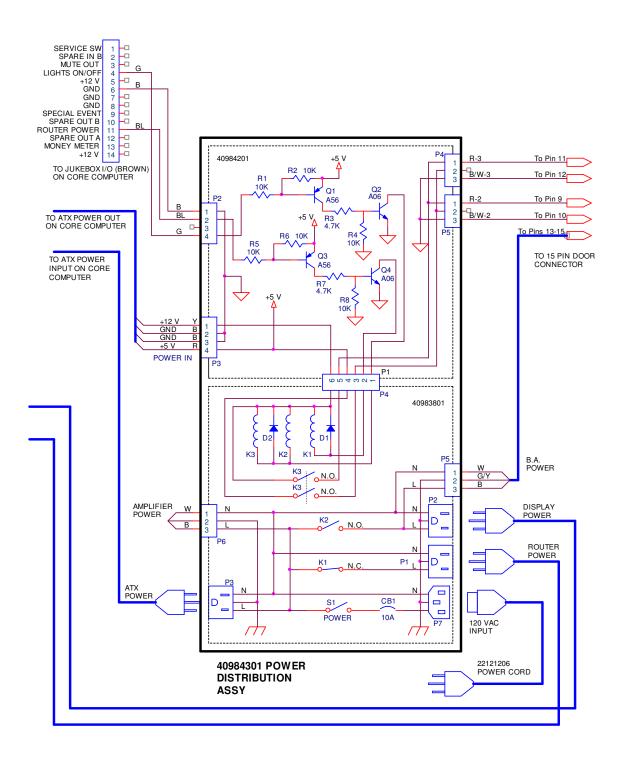
### **Connection Diagrams**

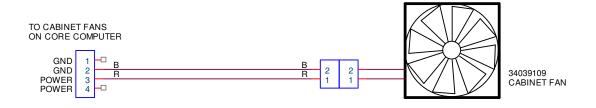


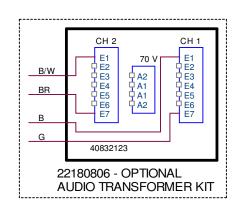
NGX MINI COMPUTER CORE SCHEMATIC (PAGE 1)

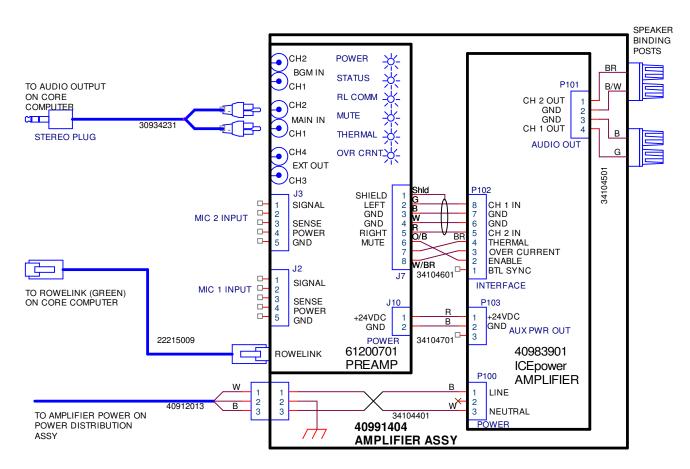


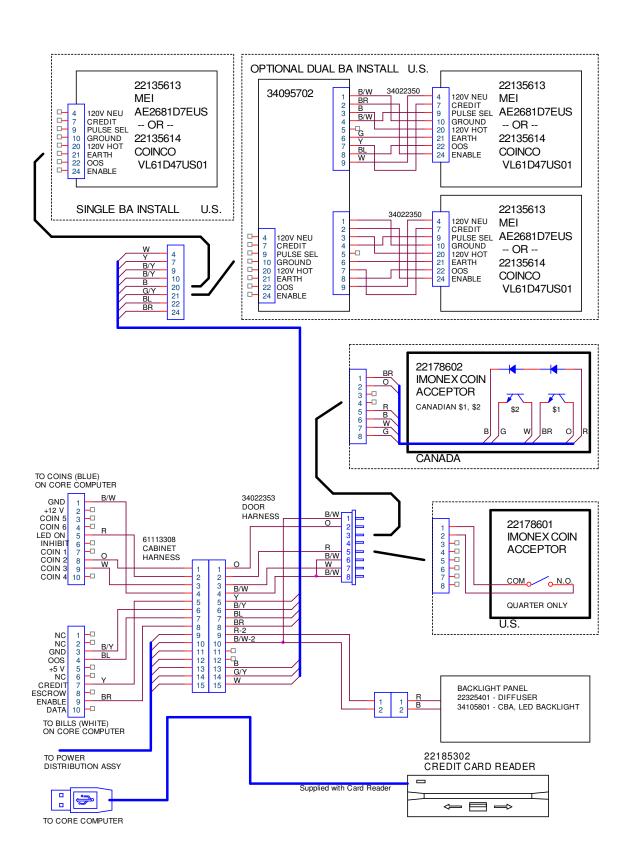












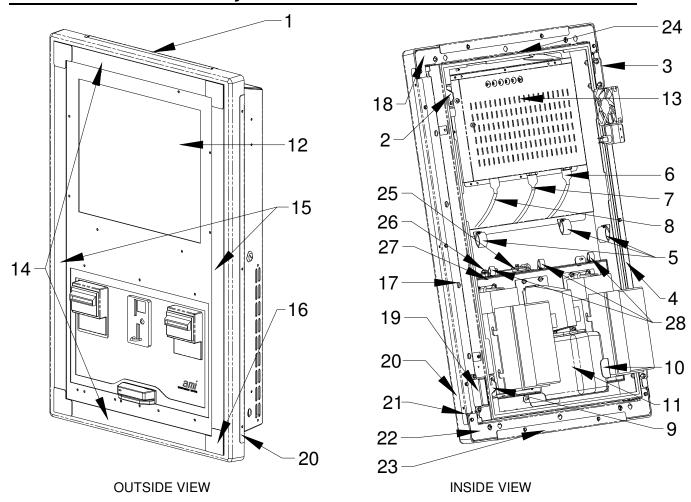
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### Section F -Parts Catalog

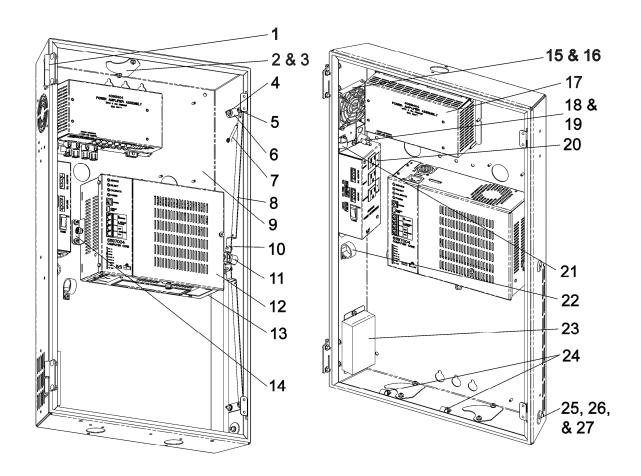
- Front Door/LCD Assembly
- Inside Cabinet
- Currency Components
- Electronic Components
  - Computer Core
  - Power Supply
  - Amplifier Assembly
- Accessories

## Front Door/LCD Assembly



| Ref. | Qty. | Part #   | Description             | Ref. | Qty. | Part #   | Description               |
|------|------|----------|-------------------------|------|------|----------|---------------------------|
| 1    | 1    | 61199702 | Door Assembly           | 11   | 1    | 40990301 | Coin Container            |
| 2    | 1    | 34103701 | Top Front Door Catch    | 12   | 1    | 61205001 | Flatscreen LCD            |
| 3    | 2    | 22323002 | Female Hinge            | 13   | 1    | 61205050 | Touchscreen               |
| 4    |      | 00710206 | Foam Rubber Gasket      | 13a  | 1    | 61205051 | Touchscreen Controller    |
| 5    | 3    | 70093403 | Cable Clamp             | 13b  | 1    | 61205053 | A-to-D Board              |
| 6    | 1    | 34038702 | Serial Cable            | 13c  | 1    | 61205054 | LCD Panel                 |
| 7    | 1    | 22164202 | VGA Cable               | 13d  | 1    | 61205055 | Monitor Gasket            |
| 8    | 1    | 21121225 | Power Cord              | 13e  | 1    | 61205052 | Monitor Power Supply      |
| 9    | 1    | 34103702 | Bottom Front Door Catch |      | 1    | 22323901 | Connector Block-Out Plate |
| 10   | 1    | 40992401 | Coin Box Retainer       |      |      |          |                           |

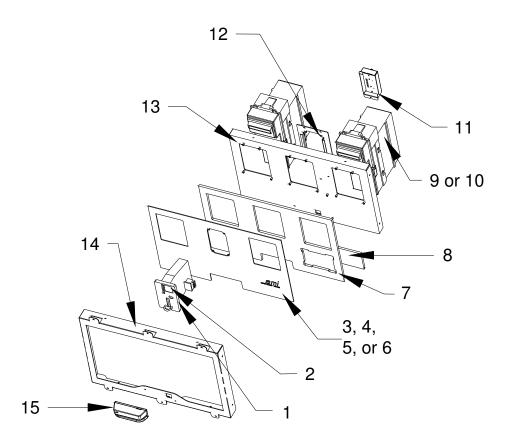
| Ref. | Qty. | Part #   | Description                                  | Ref.   | Qty. | Part #    | Description               |
|------|------|----------|--|--|------|-----------|---------------------------|
|      | 1    | 61200109 | Lighting Assembly (includes all parts below) | 22   | 1    | 40990614  | Bottom Bracket            |
| 14   | 2    | 34103805 | Horizontal Bezel Plate                       | 23   | 2    | 34105001  | Diffuser Clamp Bracket    |
| 15   | 2    | 40990706 | Vertical Bezel Plate                         | 24   | 1    | 22326302  | LED Strip                 |
| 16   | 4    | 22323503 | Corner Bezel Plate                           |  | 1    | HW8889-01 | Self-Adhesive Cable Clamp |
| 17   | 2    | 61200217 | Vertical Bracket                             | Shown for reference, not included in light assembly: |      |           |                           |
| 18   | 1    | 40990612 | Top Bracket                                  | 25   | 1    | 41010701  | LED Control CBA           |
| 19   | 1    | 22327701 | Harness Cover                                | 26   | 1    | 34102201  | Light Interconnect CBA    |
| 20   | 1    | 61200007 | Diffuser                                     | 27   | 1    | 22327801  | LED Mounting Bracket      |
| 21   | 2    | 34104907 | Diffuser Clamp Bracket                       | 28   | 3    | 70093402  | Cable Clamp               |



**INSIDE CABINET** 

| Ref. | Qty. | Part #   | Description            | Ref. | Qty. | Part #       | Description              |
|------|------|----------|------------------------|------|------|--------------|--------------------------|
| 1    | 2    | 22323001 | Male Hinge             | 17   | 1    | 40991404     | 500-Watt Amplifier Assy. |
| 2    | 3    | 34103501 | Cord Hole Cover        | 18   | 1    | 22320601     | Reset Bracket            |
| 3    | 2    | 22324201 | 8-32 Finger Nut        | 19   | 1    | 21581801     | Push Button Switch       |
| 4    | 6    | 25156904 | Shoulder Washer        | 20   | 1    | 40984301     | Power Supply Assembly    |
| 5    | 1    | 70091702 | Solder Lug             | 21   | 1    | 70093402     | Cable Clamp              |
| 6    | 2    | 22323101 | Cabinet Latch          | 22   | 2    | 70093403     | Cable Clamp              |
| 7    | 1    | 21256201 | Tension Spring         | 23   | 1    | 34103603     | Short Baffle             |
| 8    | 2    | 34100601 | Lock Actuator          | 24   | 2    | 70093401     | Cable Clamp              |
| 9    | 1    | 61199502 | Cabinet                | 25   | 2    | 70120926     | Washer                   |
| 10a  | 1    | 34024501 | Lock Bolt              | 26   | 1    | 87844400     | #10-32 Keps Hex Nut      |
| 10b  | 2    | 80443006 | #8-32 x 3/8 Hex WHMS   | 27   | 1    | 89974808     | #10-32 x ½ Carriage Bolt |
| 11   | 1    | 70163215 | Cylinder Lock          |      | ompo | nents not sh | own in assembly above:   |
| 12   | 1    | 61197004 | Computer Core Assembly |      | 1    | 61113308     | Main Harness             |
| 13   | 1    | 22321601 | Right Mounting Bracket |      | 1    | 21121240     | Power Cord               |
| 14   | 1    | 22321701 | Left Mounting Bracket  |      | 1    | 34053003     | Air Filter               |
| 15   | 1    | 34039109 | Fan with Connector     |      | 1    | 34053004     | Air Filter               |
| 16   | 1    | 21895503 | Fan Finger Guard       |      | •    |              |                          |

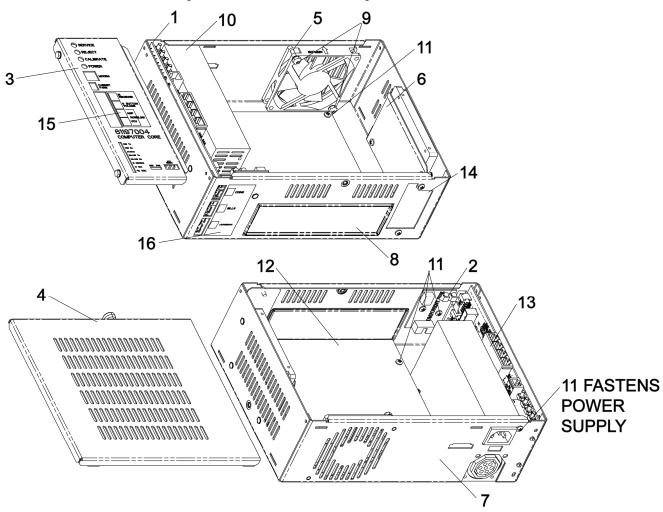
# **Currency Components**



| Ref | Qty | Part#    | Description                      | Ref. | Qty. | Part#     | Description                   |
|-----|-----|----------|----------------------------------|------|------|-----------|-------------------------------|
| 1   | 1   | 22178601 | Coin Acceptor                    | 9    | 1-2  | 22135614  | Coinco Bill Acceptor          |
| 2   | 1   | 22151005 | Coin Inlet Decal                 | 10   | 1-2  | 22135613  | MEI Bill Acceptor             |
| 3   | 1   | 40990001 | Bill/Credit Graphic Panel        | 11   | 1    | 34100002  | Dual Bill Circuit Board Assy. |
| 4   | 1   | 40990101 | Bill/Credit/Coin Graphic Panel   | 12   | 1    | 34105101  | Coin Mech Plate               |
| 5   | 1   | 40990201 | 2 Bill/Credit/Coin Graphic Panel | 13   | 1    | 61199203  | Inner Door Panel              |
| 6   | 1   | 40990401 | 2 Bill/Credit Graphic Panel      | 14   | 1    | 61199204  | Outer Door Panel              |
| 7   | 1   | 40991101 | Lighting Panel Backer            | 15a  | 1    | 22185350  | Credit Card Reader            |
| 8a  | 1   | 22325404 | Light Panel (AMI)                | 15b  | 1    | PM0725-01 | Credit Card Reader Label      |
| 8b  | 1   | 34105804 | CBA Backlight LED                | 15c  | 2    | 28277903  | #M3x16 PPHMS                  |

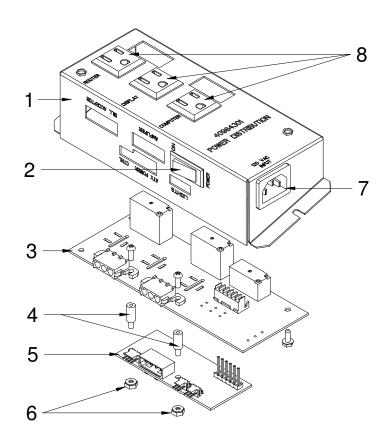
### **Electronic Components**

## Computer Core Assembly 61197004



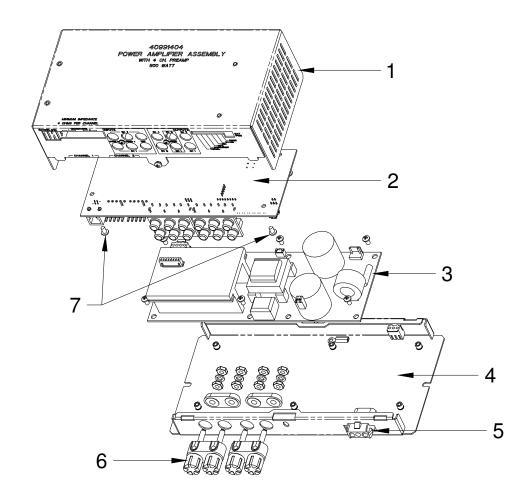
| Ref. | Qty. | Part #   | Description                   | Ref.                       | Qty. | Part #   | Description                  |
|------|------|----------|-------------------------------|----------------------------|------|----------|------------------------------|
| 1    | 1    | 22137302 | Guide – Card                  | 13                         | 1    | 61196903 | CBA – I/O Interface          |
| 2    | 1    | 34052405 | CBA – Power On/Reset          | 14                         | 1    | 22328802 | Bracket – PCI Modem Blockout |
| 3    | 1    | 34101103 | Cover – Small                 | 15                         | 1    | 22167704 | Label – Computer Connections |
| 4    | 1    | 40983503 | Cover - Top                   | 16                         | 1    | 22167705 | Label – Jukebox Connections  |
| 5    | 1    | 34039110 | Fan – Chassis Cooling w/Tach  | Components not shown above |      |          | s not shown above            |
| 6    | 1    | 34101201 | Bracket – Hard Drive Mounting |                            | 1    | 22132269 | Harness Assy – Com I/O       |
| 7    | 1    | 91197103 | Housing – Core Computer       |                            | 1    | 22132270 | Harness Assy – Power         |
| 9    | 2    | 87842300 | Nut - #6-32 Keps Hex          |                            | 1    | 22132252 | Cable – SATA Data            |
| 10   | 1    | 40955205 | Power Supply                  |                            |      |          |                              |
| 11   | 14   | 80352304 | #6-32x1/4 PPHMS               | Ref                        | 1    | 22219001 | Hard Drive – 320GB System,   |
| 12   | 1    | 40924214 | Single Bd Computer Assy       | Ref                        | 1    | 22219002 | Hard Drive – 320GB Canada    |

# Power Supply Assembly 40984301



| Ref. | Qty. | Part #   | Description         | Ref. | Qty. | Part#    | Description                   |
|------|------|----------|---------------------|------|------|----------|-------------------------------|
| 1    | 1    | 40984401 | Power Supply Cover  | 5    | 1    | 40984201 | Low Voltage Power Control CBA |
| 2    | 1    | 30785706 | Rocker Switch       | 6    | 2    | 87842300 | #6-32 Keps Hex Nut            |
| 3    | 1    | 40983801 | Power Control CBA   | 7    | 1    | 22118705 | Power Inlet                   |
| 4    | 2    | 71300091 | PC Support Standoff | 8    | 3    | 21375905 | Convenience Outlet            |

# Amplifier Assembly 40991404



| Ref. | Qty. | Part#    | Description                | Ref.                        | Qty. | Part#    | Description                |
|------|------|----------|----------------------------|-----------------------------|------|----------|----------------------------|
| 1    | 1    | 61200305 | Amplifier Cover            | 7                           | 2    | 89281606 | #4-24 x 3/8 Pan Head Screw |
| 2    | 1    | 61200706 | 4-Channel Preamplifier CBA | Components not shown above: |      |          |                            |
| 3    | 1    | 40983901 | 500-Watt Amplifier         |                             | 1    | 34104601 | Audio In Harness           |
| 4    | 1    | 61200401 | Amplifier Base             |                             | 1    | 34104501 | Audio Out Harness          |
| 5    | 1    | 34104401 | Amp Power Harness          |                             | 1    | 34104701 | Preamplifier Power Harness |
| 6    | 2    | 34104201 | Dual Binding Post          |                             |      |          |                            |

### Accessories

| Part Number  | Description   |  |  |  |  |
|--------------|---|--|--|--|--|
| 22118916     | Handy Pack (contains the following):                      |  |  |  |  |
| 21958306     | IR Transmitter  |  |  |  |  |
| 40846302     | IR Receiver   |  |  |  |  |
| 34037905     | IR Receiver Cable   |  |  |  |  |
| 21121216     | Power Cord  |  |  |  |  |
| 70004-1A     | 2-Channel Remote Control                                  |  |  |  |  |
| 62009-A-LF   | Remote Control Cable                                      |  |  |  |  |
| 34024502     | Lock Bolt (Ace Lock)                                      |  |  |  |  |
| 22324601     | Cable Retainer Bracket                                    |  |  |  |  |
|              |   |  |  |  |  |
| 22200862     | Small Parts Kit (contains the following):                 |  |  |  |  |
| 89986124 (4) | Screw, Lag 1/4 x 1-1/2" Hex Head                          |  |  |  |  |
| ST-11327 (2) | #8 x 1 1/2" Phillips Pan Head Screws for 2-Channel Remote |  |  |  |  |
|              |   |  |  |  |  |

| Optional Kits |   |
|---------------|---|
| 26704801      | Kit – Router, Wireless  |
| 22180806      | Kit – Output Transformers   |
| 22178504      | Kit – Modem, Internal PCI-Ex                                      |
| 26682503      | Kit – Money Meter   |
| 26681501      | Kit – Special Event Switch  |
| 02468         | Kit – Wireless, RF Remote Control                                 |
| 26679501      | Kit – Paging with Cable   |
| 26679502      | Kit – Paging w/o Cable  |
| 26679701      | Kit – 2nd Bill Acceptor (parts only - Bill Acceptor not included) |
| 26679702      | Kit – 2nd Bill Acceptor (includes CoinCo Bill Acceptor)           |
| 26679703      | Kit – 2nd Bill Acceptor (includes MEI Bill Acceptor)              |
| 26695501      | Kit – NGX Video   |
| 26695402      | Kit – Video Marquee ,NGX Mini                                     |

