MoD BoX
Installation & Owner's Manual

FOR TECHNICAL ASSISTANCE:

CONTACT YOUR LOCAL DISTRIBUTOR

For a list of distributors, visit the Merit Entertainment Web site

www.meritgames.com

Table of Contents

⚠ 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.

6. Clean only with a dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. 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 are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use the attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. 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 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.

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.

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.

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

Section 1: Unpacking & System Description

INTRODUCTION

The MoD BoX jukebox is part of a much larger system – the AMI Entertainment® network. This network is a digital platform that delivers music across the Internet to Jukeboxes anywhere.

The MoD BoX jukebox is an Internet-enabled jukebox that allows all the traditional functions of a jukebox backed by the power of the Internet. The Internet connectivity gives patrons more features, such as the ability to download "Music On Demand" songs when their song choice is not already on the jukebox.

MOD BOX JUKEBOX FEATURES

The major MoD BoX features are:

General Features:

- Sturdy construction and reliable design
- Conveniently located customer, operator, and service controls
- All major components are modular and easy to replace, if needed
- Computer-controlled digital music
- A 250-watt amplifier with dual 7-band equalizers
- Song reject
- 300 album and cover art capacity
- Unwanted music categories can be blocked
- Bill acceptance of $1, $5, $10, and $20
- 700-bill capacity bill acceptor
- Web-based management
- Attract mode
- "Music On Demand" song download
- Dynamic search capabilities
- No pause between plays
- Easy to change pricing

Service Features:

- All servicing can be done from the front of the jukebox
- Modular component construction for easy replacement
- Complete cash and play audit information
- Password protected Operator Web site
  - Access anytime and from anywhere
  - Track revenue and usage
  - Download new music and other content
  - Check system status

UNPACKING INSTRUCTIONS

This section contains information for unpacking the jukebox and installing it at a location. Save all tie-down hardware in case the MoD BoX must be moved to another location.

Exterior

1. Remove the shipping carton with care. Do not use shipping hooks or sharp tools that could damage the jukebox cabinet.

2. Remove the plastic bag that covers the jukebox.

3. Carefully inspect the interior and exterior of the jukebox to ensure that no damage occurred during transit.

   If damage is detected, the carrier who delivered the jukebox should be contacted immediately to examine it. Regardless of the exterior condition of the shipping cartons, the carrier should be called and notified of damage. Do not destroy packing material or boxes until the carrier's agent has examined them.

   Damage claims are your responsibility. Do not return damaged merchandise until after your claim has been established. The invoice amount for repair charges can then be collected from the carrier.

Doors

1. Locate the red bag in the coin return on the side of the cabinet. Remove the door key from the bag and unlock the top door. Turn the key to the right and press in on the door as you turn the key.

VISUAL INSPECTION

Check to be sure that all electrical plugs are completely seated into their receptacles.

HANDY CASE

Locate the Handy Case, the blue plastic envelope. The Handy Case contains a variety of items, including manuals, spare parts, and fuses. The monitor control module (to control vertical/horizontal controls and brightness/contrast controls) is also in the case, and should be plugged into the mating connector on the monitor should you need to adjust the monitor settings. Keep the Handy Case with the jukebox at all times for ready reference.

INSTALLATION INSTRUCTIONS

> ⚠ **CAUTION**
> MoD BoX must be solidly fastened to structural members within the supporting wall.
> MoD BoX weighs 130 pounds (50 kg); if it falls, it could cause damage or injury.

> ⚠ **CAUTION**
> Supplied fasteners (1-1/2" lag screws) are for wood wall stud construction. For other types of construction, installer must provide and use appropriate fasteners.

INSTALLING THE HANGER BRACKET

NOTE: It is recommended that all wall installations or removals be performed by two people for safety reasons.

NOTE: Before installing the MoD BoX on a wall, you should first install the hard drive.

1. PREFERRED METHOD*: At the installation location, use a level to mark a horizontal line that is exactly 64-3/8" (163.5 CM) off the floor. This will place the bottom of the MoD BoX at the recommended 38" (965 cm) above the floor. Refer to Figure 1-1.

2. Using the level, mark another horizontal line which is 17" (43.2 cm) below the first line.

3. Locate the wall stud locations on the horizontal lines. Drill 5/32" holes at the marks. Place the hanger against the wall and secure using the (4) 1/4" x 1-1/2" lag screws supplied.

    * In order to comply with the height requirements of ADA (Americans with Disabilities Act), this line must be no more than 55-3/8" (140.6 cm) from the floor.

16"

OPTIONAL
ANCHOR HOLE
TO LOCK
MOD BOX
TO BRACKET

HANGER
BRACKET

17"

64-3/8"

STUDS

FLOOR
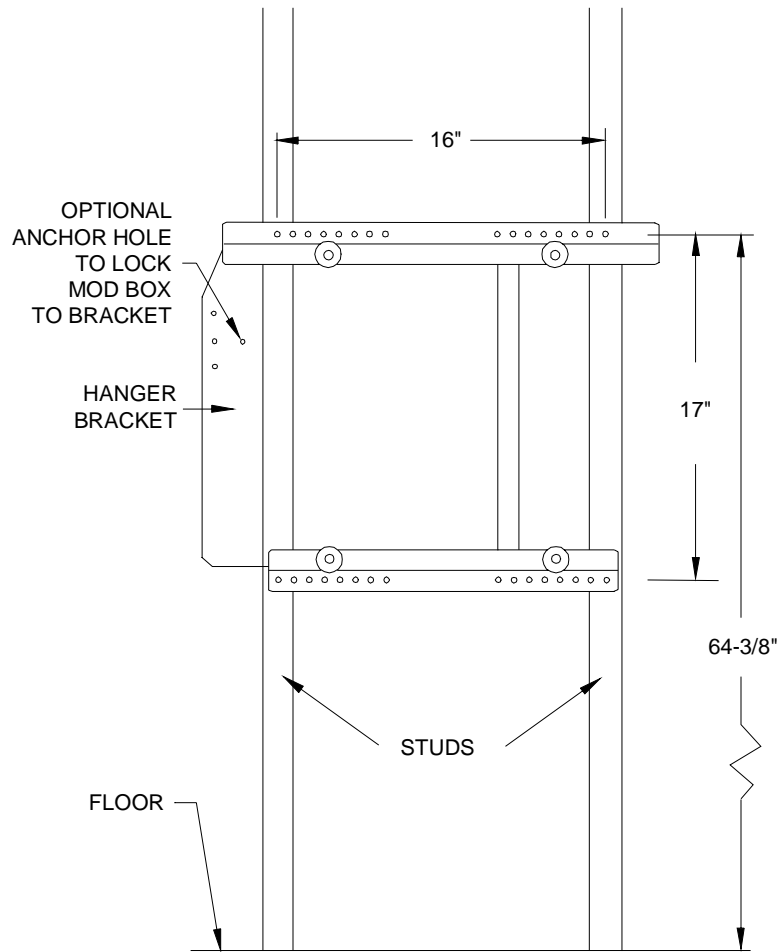
FIGURE 1-1 - INSTALLING THE HANGER BRACKET

HANGING THE MOD BOX ON A BRACKET

1. Before installing the MoD BoX on the bracket, make sure that:
   -The jukebox is turned off and unplugged.
   -The door is closed and locked.
   -All cabling that has to be routed to outside the jukebox (network, speaker, and power cables) is connected and routed through the rectangular access hole in the back of the jukebox.

2. To aid in installation, mark a horizontal line on the wall approximately 7" from the center of the upper studs on the bracket to the outside of each stud. As you lift MoD BoX to the Hanger Bracket, you will be able to line up the witness line molded into the cabinet with the line that you made on the wall. (see Figure 1-2).
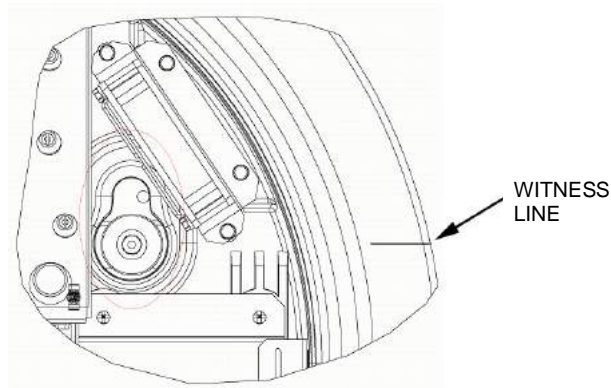
WITNESS LINE

FIGURE 1-2 - WITNESS LINE MOLDED INTO THE RIGHT UPPER SIDE OF THE CABINET (ONE ON EACH SIDE)

3. Push the MoD BoX against wall and lower it onto the studs (see Figure 1-3).

FIGURE 1-3 - MOD BOX LOWERED ON STUDS

4. Verify that the back panel is properly seated on the studs.

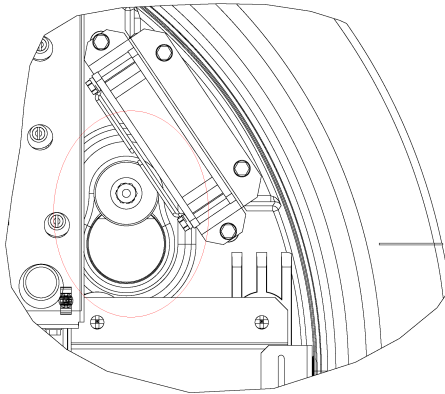5. Lock the MoD BoX onto the bracket with the provided 10-32 machine screw (see Figure 1-4).
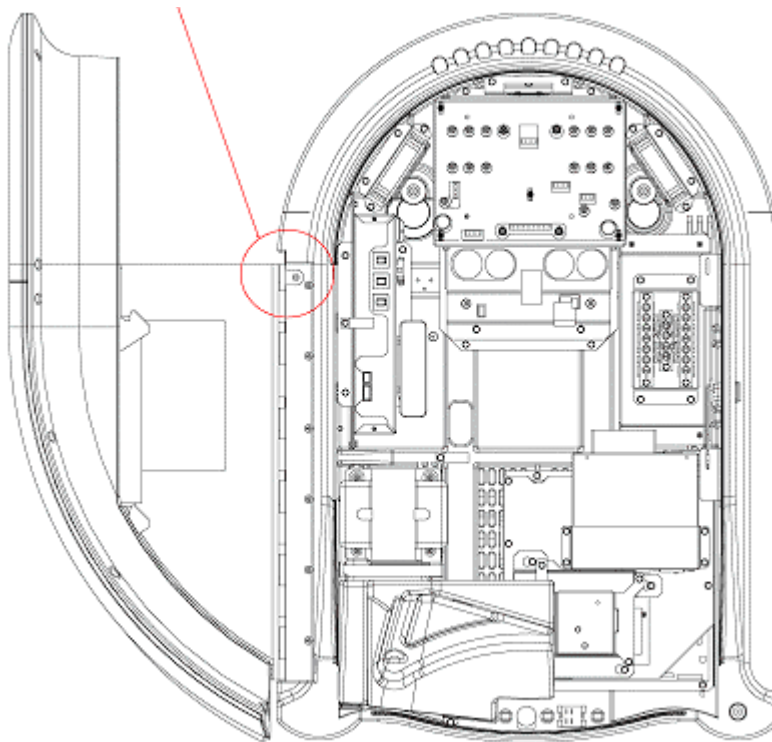
SCREW LOCATION
FOR LOCKING
MOD BOX TO BRACKET

FIGURE 1-4 - LOCKING THE MOD BOX TO THE BRACKET

MAJOR COMPONENTS OF THE MOD BOX

Figures 1-5 and 1-6 show the major components of the MoD BoX Jukebox. Take a minute to familiarize yourself with these components.

Core Computer
The Core Computer is the heart of the system and has a removable hard drive and a single board computer. The hard drive is the only storage in the system and retains: Windows XP Embedded Operating System software, all Application software, all music, and all setup and audit data. The single board computer converts music selections stored on the hard drive into a stereo signal for the systems audio components. It also connects to the Internet, the SVGA touch screen monitor, and to the other peripherals through the Communication Controller.

Touch Screen 15" LCD Monitor
All viewing, displaying, selecting, or entering is done through the Touch Screen Monitor. Some of the things it is used for are: viewing and making selections, displaying the selection playing, displaying pricing and credits, viewing and changing setup and audit data, and downloading "Music On Demand" selections.

System Power Supply
The system power supply produces +9 VDC, +12 VDC, +24 VDC, and has a relay to turn on/off the jukebox lights, touch screen monitor, and bill acceptor. It has an IEC 320 power inlet, two 6A circuit breakers, two 4A fuses, and a power switch for service/repair of the jukeboxes parts. The power switch removes power from all components except the Core Computer and the Router.

Transformer Assembly
Supplies power for the 250 Watt Digital Audio Amplifier and preamplifier, plus the system's DC power supply voltages +9 VDC, +12 VDC, and + 24 VDC.

Communication Controller
Connects the Core Computer serial RS-232 COM1 port to the serial RS-485 modules. This also includes the coin switch interface. Provides push buttons for service mode, touch screen calibration, and rejecting a song.

Router
This device provides the interface between the Core Computer and the broadband modem or satellite receiver. There is a one time configuration process to set this device for your particular Internet Service Provider (ISP). In addition to the port required for the Core Computer, there are three other ports provided for other devices.

Switch and Volume Control
This unit controls the main power to the jukebox. It contains the Selection Reject Switch, the Volume Control Switch, the core computer's reset switch, the router reset switch and the ON-OFF switch. This switch controls the power to the lights and touch screen. The amplifier, router and core computer are unaffected.

Preamplifier

The preamplifier is mounted on top of the amplifier. It receives the audio signals from the audio card in the core computer and amplifies and conditions these signals before sending them on to the power amplifier. It also provides connections for the paging kit, (part number KOV-106-000-06 - not included) and 7-band tone controls for each audio channel.

250-Watt Audio Digital Power Amplifier

The 2-channel audio digital power amplifier is rated 250 watts (125 per channel) RMS into an 8 ohm load. The full volume output voltage is 32 volts.

The amplifier is protected against overloads and short circuits. Continuous severe overloads or shorts may shut down the amplifier (or a channel) but will not damage it. If the overload is removed a signal will reset the amplifier when the next selection plays.

Output Transformers - MoD BoX Deluxe model only - available as a separate kit for standard model (part number KOV-106-000-05)

The output transformers "step up" the power amplifier's output voltage for 70-volt extension speakers. They also provide screw connections for selecting different power levels for extension speakers and allow the use of lower impedance speaker connections (4 ohms minimum).

Mars Bill Acceptor

The AE2611 bill acceptor with a 700-bill stacker operates off 120 VAC input power and outputs its pulsed credit signal to the Communication Controller.

Credit Card Reader

By installing this optional kit (part number KOV-106-000-04), your MoD BoX will accept Visa and MasterCard transactions for $5, $10 or $20 credits.

COMMUNICATION
CONTROLLER

KEY-HOLE SLOTS
FOR MOUNTING
BOX (4 PLACES)

AMPLIFIER ACCESSORY
BOARD (DELUXE ONLY)

AMPLIFIER &
PRE-AMPLIFIER

POWER SUPPLY

OUTPUT TRANSFORMER
(DELUXE ONLY)

ROUTER

ACCESS HOLE FOR
ROUTING POWER,
NETWORK & SPEAKER
WIRES OUTSIDE JUKEBOX

HARD DRIVE

CORE COMPUTER

POWER RESET SWITCH

ON-OFF SWITCH

ROUTER RESET SWITCH

POWER
TRANSFORMER

VOLUME CONTROL

SELECTION REJECT SWITCH

FIGURE 1-5 - MAJOR COMPONENTS

LOGO LIGHTING

TOUCH SCREEN AND FLAT PANEL LCD MONITOR

BILL ACCEPTOR AND STACKER

COIN ACCEPTOR
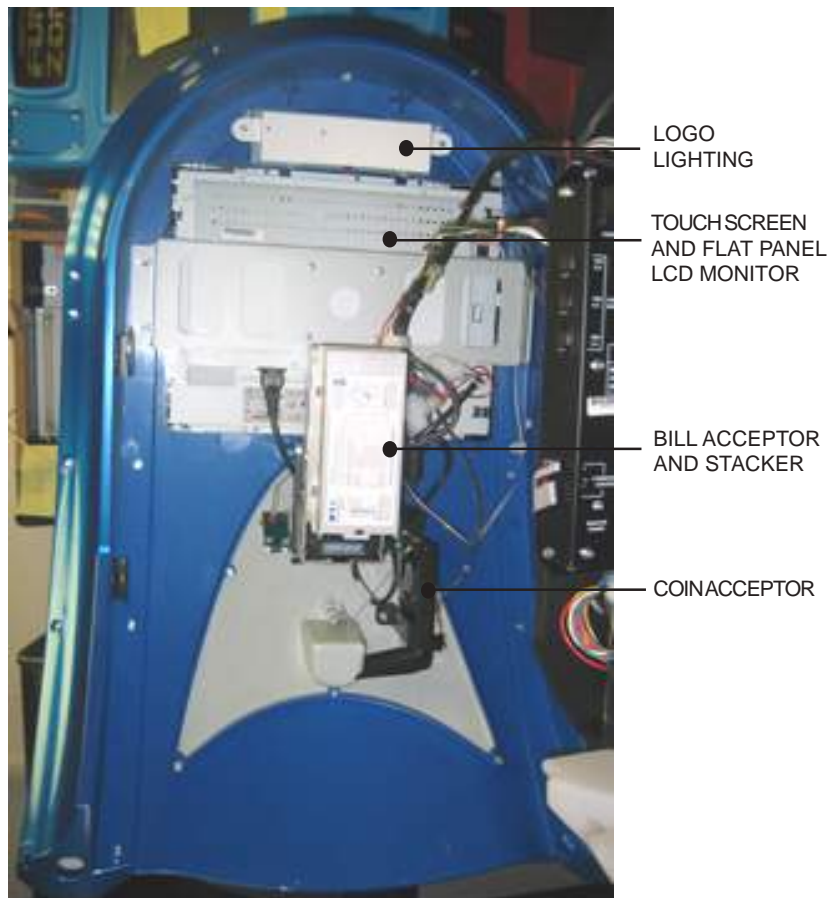
FIGURE 1-6 - MAJOR COMPONENTS

MOD BOX SPECIFICATIONS

GENERAL

Depth .... 13 in.

Width .... 24 in.

Height .... 36 in.

Power Requirements .... 120 VAC 60 Hz. 475 watts 4.8 amps

Pricing .... See Credit Pricing Screen, in the MoD BoX User Manual

Bill Acceptor .... Mars AE2611 w/700 Bill Stacker Accepts $1, $5, $10, & $20

Coin Acceptor .... Imonex - Accepts 25¢

Credit Card Reader .... Optional Kit - Magnetic Card Reader (KOV-106-000-04)

Touch Screen Monitor .... 15" LCD with ELO Saw touch screen

SOUND SYSTEM

Core Computer

    Type .... 16-bit Stereo

    Frequency Response .... 20 to 20,000 Hz.

    Channel Separation .... 90 dB @ 1,000 Hz.

    Output .... 0.7 V (approx. depending on the album)

Power Amplifier (Second 1000-watt Stereo Amplifier is Optional)

    250-Watt Stereo

    FTC Rating, 8-Ohm Loads @ .5% THD .... 250 watts RMS

    with Output Transformer

    (standard in MoD BoX Deluxe or available as a kit - part number KOV-106-000-05),

    FTC Rating, 70V Lines @ .5% THD (125 per ch) .... 250 watts RMS

Preamplifier

    Channels .... Two

    AVD Control Range .... 20 dB

    Tone control is accomplished through a 7-band equalizer

Selection System Capacity .... 300 Albums

Output Transformer (MoD BoX Deluxe model or available as a kit,

part number KOV-106-000-05) .... 70 V line for extension speakers

System Frequency Response .... 40 to 20,000 ±4 dB

FUSES AND CIRCUIT BREAKERS

System Power Supply

        120 VAC (Transformer Primary Only .... Two 6-amp Circuit Breakers

        24 VAC .... 4-amp Fuse

        +12 VDC .... 4-amp Fuse

LIGHTING

        LED .... Custom

POWER SYSTEM

Because of the way the MoD BoX operates, the Power Switch shown and described in Section 1 does not disconnect all power. Turning this switch OFF gives every outward appearance that the jukebox is off, but the amplifier system is left energized so that the paging system (if installed) still operates and the core computer is left on so that the dial-up modem kit (if installed) can still make its scheduled call(s) even if the jukebox is "turned off" for the day.

Therefore it is important to bear in mind that to completely disconnect all power you must either unplug the power cord at the wall, or if that is inconvenient it can be disconnected where it enters the jukebox at the Power Supply Board Assembly. See Figure 1-7.
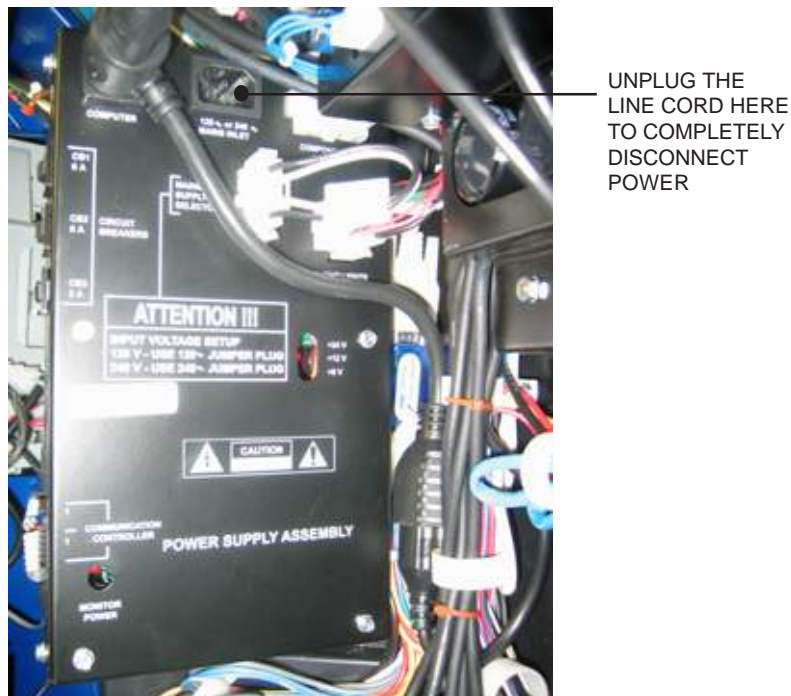
UNPLUG THE LINE CORD HERE TO COMPLETELY DISCONNECT POWER

FIGURE 1-7 - POWER SUPPLY BOARD ASSEMBLY

Section 2: Network

INTRODUCTION

In order to bring the AMI Entertainment® Network and the Internet to each location, a broadband connection or standard, modem dial-up connection must be installed at each site. Depending on the situation and availability, the line can be digital cable, wireless broadband, Digital Subscriber Line (DSL), or satellite providing fast Internet service.

Which of these technologies a site will use may depend on its geographic location and availability. The final line installation procedure will be slightly different for each technology. Prior to jukebox installation, the Operator will need to coordinate with the target establishment to select an optimum location for the line and to place an order with the broadband supplier that services that area.

NOTE:
Starting with Software Version 2.4.0 and above, the AMI Entertainment® Network can be accessed by jukeboxes using a standard modem dial-up connection. Contact your local distributor for information on dial-up connectivity kits for Jukeboxes.

Where to Install the Designated Line and Router

With any broadband installation, additional equipment will have to be installed in the location. For a cable or DSL installation there will be a cable or DSL modem. For a satellite installation there will be a satellite receiver. This equipment should be placed in a secure area at the site. Preferably the modem/receiver would NOT be installed inside the Jukebox.

> **NOTE:** The line will look like a standard wall jack in the location, no matter which technology is employed.

Internet Wiring

The Internet line can be installed in any of the following:

· An indoor telephone closet (preferably on the same floor as the Jukebox)

· An indoor utility closet (preferably on the same floor as the Jukebox)

· Closet or office where other sound equipment is located

· Behind the bar

· Next to a utility switch box in a back room

DO NOT install the line:

· Behind the Jukebox

· In a place where it is extremely difficult to route or replace a cable

· In a high traffic area where the Internet cable could be accidentally or maliciously disconnected

Router

In order to make the installation process for the Operator as easy and smooth as possible, a router is included with your Jukebox. The Jukebox is shipped with a D-Link model wireless router.

The router can be relocated:

· Next to the designated line

· Next to other sound equipment in a closet, office, or behind the bar (avoid area where liquids might be spilled)

· Any location close to and between the jukebox and the broadband modem or satellite receiver

DO NOT install the router:

· Where customers have access to it

· In an area where electronic components could be damaged

· Far from and/or with physical obstacles between it and the jukebox (on another floor, through doorways with closed doors, etc.)

Router/Modem Power

Each AMI-powered jukebox is equipped with a special power outlet designed to supply 120VAC for the Router and your modem. The outlet is controlled by the jukebox core computer so that in the event the Internet connection is lost it can automatically cycle the power off and back on in an effort to allow those devices to re-establish the Internet connection. In addition, there is a push button switch provided so that you can perform a manual reset at any time.

This outlet should be used to supply the router and, if possible, the modem itself. This provides the maximum flexibility and capability with respect to keeping your jukebox on-line at all times.

If you decide to power the site's modem via this outlet, two 120V extension cords are provided with your jukebox. To make such a connection, disconnect the router's power supply from its factory position, plug the 6" "Liberator" cord into the outlet and then connect the router's supply and the 6 ft. extension cord into the two newly-created outlets. See Figure 2-1.
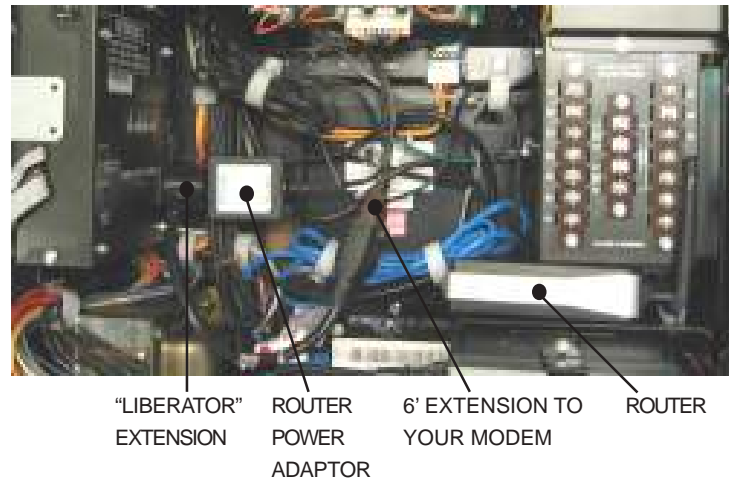

"LIBERATOR" ROUTER   6' EXTENSION TO   ROUTER
EXTENSION   POWER   YOUR MODEM
               ADAPTOR

FIGURE 2-1 - ROUTER & ROUTER/MODEM POWER OUTLET

The Router

Introduction

The D-Link Router supplied with your jukebox provides two functions. It is the connecting point for the network in the location, and it distributes the Internet from the modem to the jukebox and other devices. The connections between the router and the jukebox and other broadband equipment will be the same for all types of Internet technology. The D-Link model WBR-1310 router also includes Wireless capability. A wireless configuration has been preset into the router before it was installed in the jukebox. The preset configuration will allow a Merit countertop game machine to find and connect to the Internet without any configuration changes at the countertop game or the D-Link router.

FIGURE 2-2 - FRONT VIEW OF D-LINK ROUTER

1. **Power LED** - A solid light indicates a proper connection to the power supply.
2. **Status LED** - A blinking light indicates that the router is ready.
3. **WAN LED** - A solid light indicates connection on the WAN port (connection to the broadband equipment). This LED blinks during periods of data transmission.
4. **WLAN LED** - A solid light indicates that the wireless segment is ready. This LED blinks during wireless data transmission.
5. **Local Network LEDs** - (LAN Ports 1-4). A solid light indicates connection on to an Ethernet-enabled device (the jukebox). The LED flickers when the corresponding port is sending or receiving data.
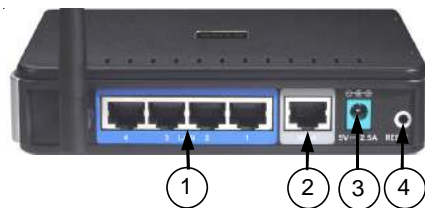

FIGURE 2-3 - REAR VIEW OF THE D-LINK ROUTER

1. **Local Area Network Ports (1-4)** - These are LAN port sockets (CAT5 Ethernet RJ-45 Cable). Connect the jukebox to one of these ports.
2. **WAN Port** - This is where you connect the broadband equipment.
3. **Power Input** - Connect one end of the included power adapter into the power port and the other end into a power outlet.
4. **Hardware Reset** - Used to restore the router to its factory default settings.

Ethernet Cable Pin Out and Instructions

Part of the jukebox installation process requires making a custom Ethernet cable, as the cable length will be unique for each location. This cable will be run between the jukebox and router. This customization will save costly cable and result in a neater installation process.

To install the cable you will need:
- Category 5 UTP cable (eight-conductor data cable with 4 pairs unshielded twisted wires)
- RJ-45 plugs and a Telco crimping tool
- Cable testing device (optional but recommended)

Refer to the following directions to make a "straight through" cable where pin 1 on one end corresponds to pin 1 on the other end.

1. Cut back 1" of the outer, plastic covering to reveal 4 twisted pairs and some insulation material. If you partially cut some of the wires, cut them all off and start over. Each pair is a solid color wire twisted with a striped white and same color wire.

2. Cut out the insulation material to the bottom of the removed plastic.

3. Untwist each pair no more than 1 cm and lay them flat together pinched between your fingers in the same order as shown in Figure 2-4.

4. Hold the 8 wires together and cut them at the top to make them all the same length. The length of the wires should be slightly shorter than the length of the connector so that the cut plastic just fits inside the connector.

5. Hold the RJ-45 Ethernet plug head in your other hand with the hook faced down. Slide the wires into the connector head. Make sure that the wires stay in the correct order and fit into their own slots. All wires must hit the end of the plug.

6. Slide the connector head into the RJ-45 crimping tool and squeeze down hard. Look at the side of the plug and check that the metal contacts went into the wires. If not, squeeze down again.

7. Repeat the above steps for the other end (same pin out scheme).

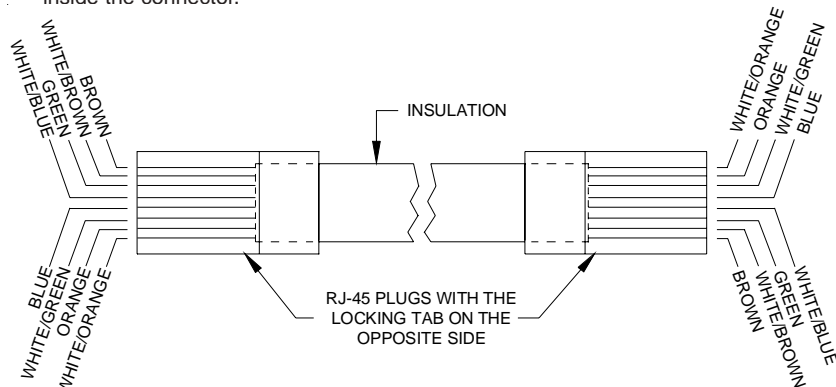8. Use the cable testing device to ensure that the cable was built correctly.

FIGURE 2-4 - ETHERNET CABLE

Installing the Router

Description

After the broadband installer has completed the installation and testing process, you will be ready to connect the router.

If you choose to leave the router in the jukebox, simply route an Ethernet cable from the modem or other broadband source into the rear of the jukebox and connect it to the WAN port on the router.

If you decide to relocate the router outside the jukebox, follow the steps below:

1. **Select a Location**
   Please see the 'Where to Install the Designated Line and Router' in section 2 for suggested locations.

2. **Mount or Place the Router**
   The best place to install the router is on a shelf or a ledge. If this is not possible, the box can be mounted to a wall. The underside of the box has two holes about 4-1/4" apart on a diagonal. Be sure that you can view the front of the box (non-plug side) where the signal lights are located.

3. **Connections**
   Connect a straight through CAT5 cable from the router port labeled WAN (see Figure 2-3) to the output jack of the broadband equipment. If the provided cable is not long enough, you can purchase a longer one or make your own.

4. **Power on the Router**
   Connect the AC power adapter to the back of the router labeled 5V-2.5A. Connect the other end to the power outlet in the jukebox (see "Router/Modem Power" in section 2). Use an extension cord if necessary. Different lights may flash on the router, but should settle to 2 green lights labeled Power and WAN.

5. **Connect Router to Jukebox**
   Connect a straight through CAT 5 cable from the router port labeled 1 to the Ethernet jack on the core computer inside the jukebox. See previous page for more information about constructing and installing this cable.

Programming the Router

Introduction

The broadband installer should have left a document describing specific information required to connect to the Internet Service Provider (ISP). This document may have included a User Name and Password and/or several IP addresses. An IP address is a number used to identify an address on the Internet. This information will be used to program the router.

The software in the jukebox provides access to the router setup screens so that a laptop or other computer is not required for setting up the router.

FIGURE 2-5 - ROUTER SETUP SCREEN

Description

Be sure the broadband equipment and the router are powered up and the proper status LEDs on all equipment are lit. Power up the jukebox and wait for the User Interface to appear. Open the jukebox and press the SERVICE button on the Communication Controller board to enter the Service Mode. Touch the Hardware Setup button then touch **Router Setup**. The screen should look like Figure 2-5. If you get a "Page Not Found" error screen, see **Troubleshooting** for suggestions.

To change a value in the router, first touch the text box on the router setup view that is to be changed. This sets the focus to that text box. Touch keys on the keyboard displayed at the bottom of the screen to enter new data.

> **NOTE:**
> For security purposes several of the router configuration pages have been disabled including the Setup Wizard and the HELP page. Full access to all router configuration pages is still available but a laptop computer or other computer device will have to be used. If the router is configured using a different computer and the Administrator password is changed or the default IP address of the router is changed, you will no longer be able to use the jukebox software to access and program the router.

Procedure

Generally, all router setup can be done from just one router setup screen. Use the scroll bar on the left side of the Router Setup Screen to scroll down to **Manual Configure** and select it by touching it. Then, scroll down to **Internet Connection Type** and touch the drop down menu to select your Internet connection type.

Chances are your configuration will be one of the three primary router setup configurations: Dynamic IP, PPPoE, or Static IP. Your specific type of configuration will require different information, all of which your broadband installer should have left at the location after installing the broadband line.

Dynamic IP – (Used by most cable modems) See Figure 2-6.

FIGURE 2-6 - DYNAMIC IP ADDRESS EXAMPLE SCREEN

> **NOTE:**
>
> ✓ The jukebox screen will only show a small portion of the router setup screen. To see the bottom portion of the screen, use the scroll bar on the right side of the screen.

Comcast (formerly AT&T Broadband Internet)

Look over your Broadband Internet paperwork for the "Adapter Address" or "MAC Address" and copy it down. If you do not find it, do the following: Go back to the Main Menu and choose **Diagnostics** then choose **System Information**. Look for the MAC Address and copy down the number. The MAC Address will be six two digit numbers where the digits can be 0-9 and A-F.

After you have the address, go to the Router Setup screen and select the Radio Button next to Dynamic IP Address. Then find "MAC Address". Touch the first box for the first two digit number. Type in the first two digits then touch the next box to type in the next two digits. When all six pairs of numbers for the MAC Address have been entered, touch the **Save Settings** button.

Cox

Look on your Cox paperwork or call Cox and find out what your "Domain Name" is. After you have the Domain Name, go to the Router Setup Screen and choose Dynamic IP then find "Host Name". Touch the text box then type in the Domain Name from your paperwork. Touch the **Save Settings** button.

Time Warner Roadrunner

Look on your Time Warner paperwork or call them to find out what the "Domain Name" is. After you have the Domain Name, go to the Router Setup Screen and choose Dynamic IP then find "Host Name". Touch the text box then type in the Domain Name from your paperwork. Touch the **Save Settings** button.

NOTE:
A select few Time Warner's register the MAC Address. If this is so, do the following: Go back to the Jukebox Main Menu screen and choose **Diagnostics** then choose **System Information**. Look for the MAC Address and copy down the number. The MAC Address will be six two digit numbers where the digits can be 0-9 and A-F. After you have the MAC Address, go back to the Router Setup screen and find "MAC Address". Touch the first box for the first two digit number. Type in the MAC Address digits. Be sure to enter all six pairs of numbers. Touch the **Save Settings** button.

PPPoE - (Used by many DSL modems) See Figure 2-7.

Ameritech
Bell South
Earthlink
PacBell
SBC
Verizon East (formerly Bell Atlantic)

Look on your broadband provider paperwork or call them to find out what the "User Name" and "Password" is. After you have the User Name and Password, go to the Router Setup Screen and select the PPPoE from the drop down list. Touch the box next to User Name and type in the User Name. Touch the box next to Password and type in the password. Touch the box next to Retype Password and type in the password again. Touch the **Save Settings** button and you are ready to go!

FIGURE 2-7 - PPPoE EXAMPLE SCREEN

Static IP

Look on your broadband provider paperwork or call them to find out what the "IP Address" and "Subnet Mask" is. They may also require you to enter other numbers as shown on this configuration Screen. After you have this information, go to the Router Setup screen and select Static IP from the drop down list. Touch the box next to IP Address and type in the IP Address. Touch each box and enter the information as received from your broadband provider. Touch the **Save Settings** button and you are ready to go!

FIGURE 2-8 - STATIC IP EXAMPLE SCREEN

NOTE:
There are many different broadband Internet providers and not all of the possible setup schemes have been presented here. Please refer to your provider's installation documents to determine the proper router setup for your installation.

Section 3: Installing Hard Drive and Testing

INSTALLING THE HARD DRIVE

CAUTION
Hard drives are extremely sensitive to physical mishandling. Always keep the hard drives protected from accidental falls, banging, dust, or liquids.

WARNING
Never install or remove a hard drive when the unit is powered on. As an extra precaution, always unplug the power cord at the power supply before removing or installing the hard drive.

The following steps describe how to install a hard drive in the jukebox.

1. Unlock the jukebox and open the front door. Unplug the line cord at the wall or at the power supply as described above.

2. Locate the plastic bag taped to the computer containing 2 metal hard drive brackets, 4 screws and 2 thumbscrews. Using the 4 screws, secure the brackets to the hard drive as shown in Figure 3-1. Use the holes in the bracket that are furthest from the connector side of the hard drive.

3. Attach the power and IDE cables to the hard drive as shown in Figure 3-2. Make sure both headers are firmly seated.

4. Install the hard drive as shown in Figure 3-3 and secure it with the 2 thumbscrews. Be sure the IDE cable doesn't interfere with any other motherboard components.

5. Close the front door and plug in and turn on the jukebox.

SCREWS
SECURING HARD
DRIVE BRACKETS

UNUSED
HOLES

CONNECTOR
SIDE OF
HARD DRIVE

FIGURE 3-1 - BRACKETS SECURED TO HARD DRIVE

POWER
CABLE

RED STRIPE
ON THIS SIDE
OF THE IDE
CABLE

FIGURE 3-2 - POWER AND IDE CABLES ATTACHED TO HARD DRIVE

THUMBSCREWS
SECURING HARD
DRIVE BRACKETS
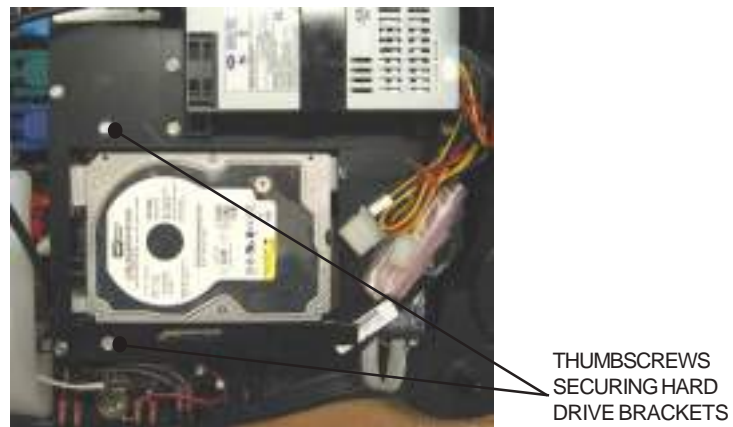
FIGURE 3-3 - TWO THUMBSCREWS SECURING HARD DRIVE

TESTING THE UNIT

Once the jukebox is powered on and the user interface is running (see Figure 3-7), try the following procedures before moving and installing the unit at the venue:

Peripherals

TOUCH SCREEN

> **NOTE:**
> Every time a new hard drive is installed, the touch screen should be calibrated.

The following procedure describes how to calibrate the touch screen:

1. Press the "Calibrate" button on the Communication Controller (see Figure 3-4). Press the button in once to launch the calibration program. This will override the application while the program runs. See Figure 3-5 for a picture of the calibration program interface.

2. Close the jukebox top door and make sure it is locked.

3. Follow the directions on the screen, touching the center of the targets, then touching "YES".
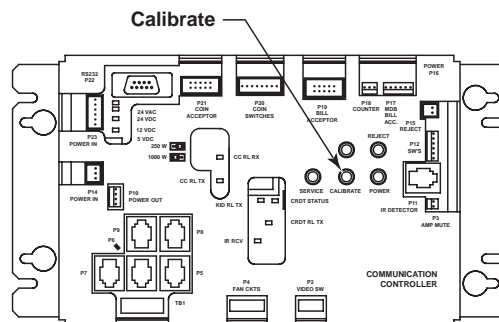
FIGURE 3-4 - COMMUNICATION
CONTROLLER - CALIBRATE LOCATION
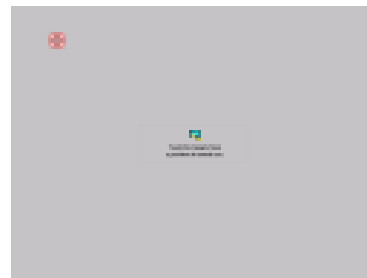
FIGURE 3-5 - CALIBRATION
SCREEN

BILL ACCEPTOR

Insert a dollar bill in the jukebox and check that the increment in credits available corresponds with the pricing scheme for the jukebox.

AUDIO TEST

Connect a pair of speakers as described in Section 4.

Play a local music selection by following the procedure below.

Browse through album covers on the local jukebox by touching the red arrow keys on either side of the panel showing the album covers. To view the songs on an album, touch the album and the song list will appear. Scroll down or up with the double arrows to view all songs on the album. Make a song selection by touching the song title. Confirm your selection by touching the "YES" box. The song will be selected as long as there is at least 1 credit under "Credits" in the top right-hand corner of the screen.

FIGURE 3-6 - JUKEBOX USER INTERFACE

MUSIC SELECTION AND PRICING

See the included *"MoD BoX User Manual"* to understand how to use all of the features associated with the User Interface.

The local music selection and pricing were pre-configured for each hard drive.

> ✓ **NOTE FOR OPERATORS PRETESTING THE JUKEBOX IN THEIR OWN FACILITIES:**
> Any features in the application associated with the network – such as the "Music On Demand" feature, which accesses all songs in the AMI Entertainment® music library, will not work unless the jukebox is connected to the Internet. See Section 2 for setup information.

Connection Rules

The first time you boot up the MoD BoX with your hard drive, a 60-day grace period will begin. If at the end of these 60 days your jukebox has not connected to the AMI Entertainment® Network to validate it's licenses, the computer will cease to operate.

After the jukebox has made it's initial connection to the AMI Entertainment® Network, it must continue to connect at least once every 7 days to validate it's licenses or it will cease to operate.

Section 4: Sound System Setup

INTRODUCTION

See Section 2 if you have any questions about setting up the Network, or consult the included *"MoD BoX User Manual"* for questions about jukebox operation.

Extension Speaker Operation

To avoid a poor-sounding jukebox, care must be taken when adding extension speakers. Two requirements must be met:

1. Speakers must be wired so that the power consumed does not exceed the amplifier power rating.
2. All speakers must be connected with the correct polarity.

70-Volt Speakers

To avoid prohibitive cable losses on long speaker lines (over 100 feet), use 70 V speakers. This can only be done if you add the Output Transformer (standard in the Deluxe model, or available as a kit, part number KOV-106-000-05). The power level in the 70 V speakers is set at each speaker. 250 watts is provided for 70 V speakers by A1, A2 connections on the audio output transformer assembly. Refer to the **Speaker Connection Guide** on pages 38-40 to make the desired speaker connections for models with the output transformer.

Low Impedance Speakers

Low impedance speakers (8-ohm or higher) can be used when the connecting cable is less than 100 feet.

8-Ohm Speakers (Parallel Connections)

No more than one 8-ohm speaker should be connected to a speaker line. If several 16-ohm speakers are to be used, each speaker should have its own line. The loss in 100 feet of 18 gauge zipcord feeding an 8-ohm speaker is 15%.

SOUND SYSTEM SETUP

Acoustical Compensation (Equalizer Tone Controls)

The preamplifier contains seven tone controls on each channel to compensate for room acoustics in various locations. These controls are on the amplifier chassis. The sound level at which the jukebox will be operated and the room furnishings determine the settings of these controls.

A room with carpet and drapery is a soft or highly absorbent location. A crowded room is also highly absorbent. These locations require greater emphasis of high frequencies.

A room with paneled walls and a bare or tiled floor is a hard, nonabsorbent location, which requires greater low frequency emphasis.

Regardless of the room acoustics, the high and low frequency characteristics of your speakers can influence the equalizer settings as much or more than the room acoustics.

What The Equalizer Does

The equalizer controls the tone for seven specific tone ranges. The frequency for each range is printed next to each equalizer control.

IMPORTANT
Each of these controls can limit the maximum volume for its range by as much as 75%. This means that if a control is set to minimum, that the maximum power available for that range is only about 32 watts. If all of the graphic equalizer controls are set to minimum, then the jukebox will produce no more than approximately 32 watts of its 125 watt capacity per channel.

Equalizer Settings

These equalizers work equally well for stereo and mono sound and may be used with single and dual volume controls.

The settings will give a good sound for a room with the matching acoustics (highly absorbent, moderately absorbent, nonabsorbent). Set the right and left channel equalizer controls to the positions that match the room described (or most closely described). These settings may be just right, or they may not sound 100% right to you. If the sound is not satisfactory, make small changes in the settings until the sound is just the way you want it.

If the Room or Speaker System Requires a Trade-Off

The equalizer limits the volume of all of the audio frequencies. Therefore, to achieve the best sound for a specific room or set of speakers, you may find that most of the graphic equalizer controls need to be turned down. In this situation, the overall jukebox volume may not be adequate. If you find that you have this situation, increase each graphic equalizer control slightly until the jukebox produces the required volume.

Procedures for Adjustment

Select one of the Room Acoustics that most closely matches the acoustics of your room and follow the instructions for that room type. If your room is an average or moderately absorbent room, or you like the sound of the jukebox, you can use the factory settings just the way they are.

> **NOTE:**
> The maximum volume setting is obtained when all controls are turned full counterclockwise. Refer to Figure 4-1 for a view of the preamplifier.
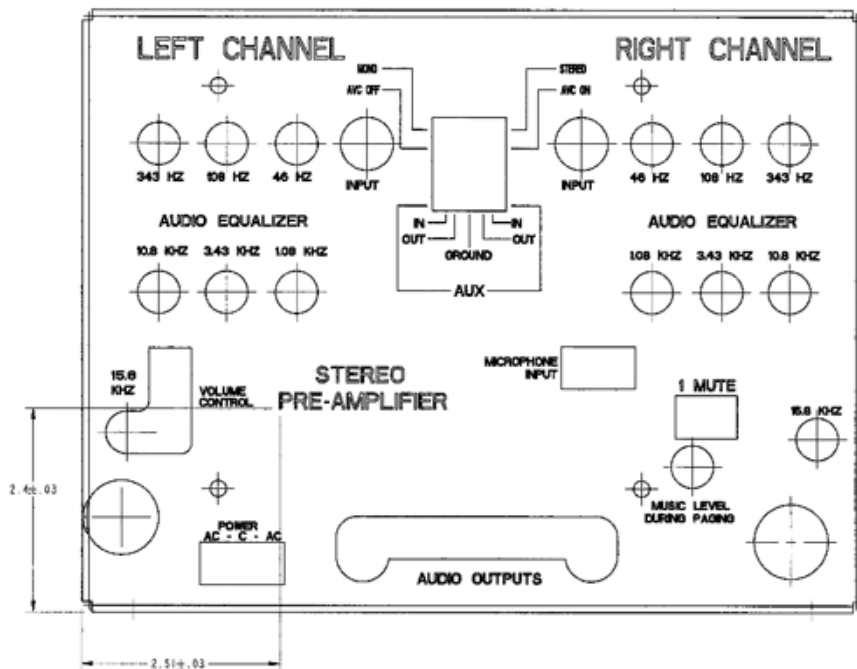
FIGURE 4-1 - VIEW OF PREAMPLIFIER

Soft and Highly Absorbent Rooms

Rooms with carpet and drapery are considered to be "soft and highly absorbent."

1. Turn all seven right channel and seven left channel graphic equalizer controls fully counterclockwise.

2. Turn the 46 and the 108 Hz controls to the position midway between the maximum and the minimum position. Leave all of the other controls turned all the way counter-clockwise.

3. Play a selection and turn the controls slightly (no more than 1/8 of a turn at a time) until the sound is acceptable. Be sure that the jukebox volume is adequate. If the volume is not adequate, turn each control up (counterclockwise) slightly until the volume is satisfactory.

Average or Moderately Absorbent Rooms

These are the factory settings.

1. Turn all seven right channel and seven left channel graphic equalizer controls fully counterclockwise.

2. Play a selection and turn the controls slightly (no more than 1/8 of a turn at a time) until the sound is acceptable. Be sure that the jukebox volume is adequate. If the volume is not adequate, you will need to turn each control up (counterclockwise) slightly until the volume is satisfactory.

Hard or Non-Absorbent Rooms

Rooms that are paneled and have bare or tiled floors are considered to be "hard or nonabsor-bent."

1. Turn all seven right channel and seven left channel graphic equalizer controls fully counterclockwise.

2. Turn the 15.8 kHz control all the way clockwise.

3. Turn the 10.8 kHz control to the position midway between the maximum and mini-mum position. Leave the 46 Hz, 108 Hz, 343 Hz, 1.08 kHz, and 3.43 kHz controls turned all the way counterclockwise.

4. Play a selection and turn the controls slightly (no more than 1/8 of a turn at a time) until the sound is acceptable. Be sure that the jukebox volume is adequate. If the volume is not adequate, you will need to turn each control up (counterclockwise) slightly until the volume is satisfactory.

PAGING

Paging kits (part numbers KOV-106-000-06, -09, or -10) are available to provide this function. They include a handheld microphone, an interface assembly and certain kits include 50 ft. of cable which connects at J15 of the preamplifier. The interface includes a microphone volume control adjustment and the system works with a control on the preamp - "Music Level During Paging" - to provide the location the ability to customize paging according to their own preferences.
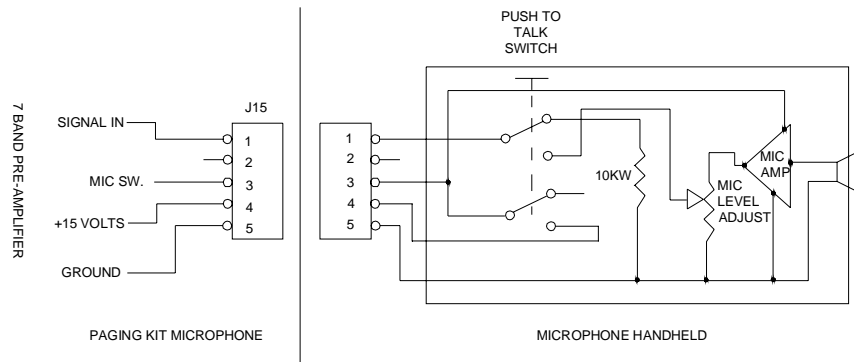
SPEAKER SYNOPSIS

250 Watts of RMS Power per Amplifier or 125 Watts per Channel

The maximum load per channel is 125 watts.

The generic speaker wiring diagrams cover 2 to 8 speakers. Diagram 1 has a 2-speaker layout. If you only want the 2-speaker layout, then the maximum output of each speaker would have to be rated 8 ohms and capable of 150 watts.

Question: Why a 150 watt rating on the speaker?
Answer: Safety factor/life of speaker

These speakers are expensive, providing a lot of sound in a localized area which does not necessarily optimize the room sound.

A better way to distribute the sound is by adding more speakers. Diagram 2 has a layout of 4 speakers at 4 ohms each and only having a rating of 75 watts each, which includes a safety factor. The expense factor should now be less for each speaker.

For a really big room, Diagram 3 may be the best scenario. Diagram 3 shows a series/parallel hookup with up to 8 speakers. The advantage is the ratings are 8 ohms at only 35 to 40 watts each. Thus giving you a lot of sound at a reasonable price. To ensure the speakers work correctly, the 2 wired in series should be of the same make and model. Different models wired in series will not give equal outputs, and the frequency response may degrade sound quality.

SPEAKER RATING EACH 8 OHMS @ 150 WATTS

250 Watt Amplifier

CH2

CH1

Speakers
Right Channel

Speakers
Left Channel
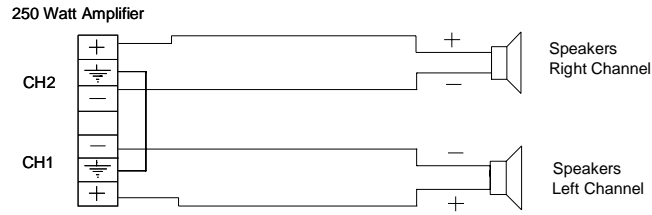
DIAGRAM 1

SERIES CONNECTIONS
SPEAKER RATINGS EACH 4 OHMS @ 75 WATTS

250 Watt Amplifier

CH2

CH1

Speakers
Right Channel

Speakers
Left Channel
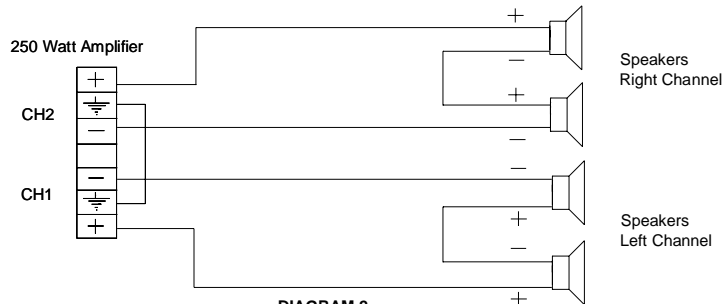
DIAGRAM 2

NOTE: FOR BEST SOUND, SPEAKERS
WIRED IN SERIES SHOULD BE OF THE
SAME MAKE AND MODEL.

SERIES/PARALLEL CONNECTIONS
8 OHMS SPEAKERS EACH RATED AT 30 TO 40 WATTS

250 Watt Amplifier

CH2

CH1

Speakers
Right Channel

Speakers
Left Channel
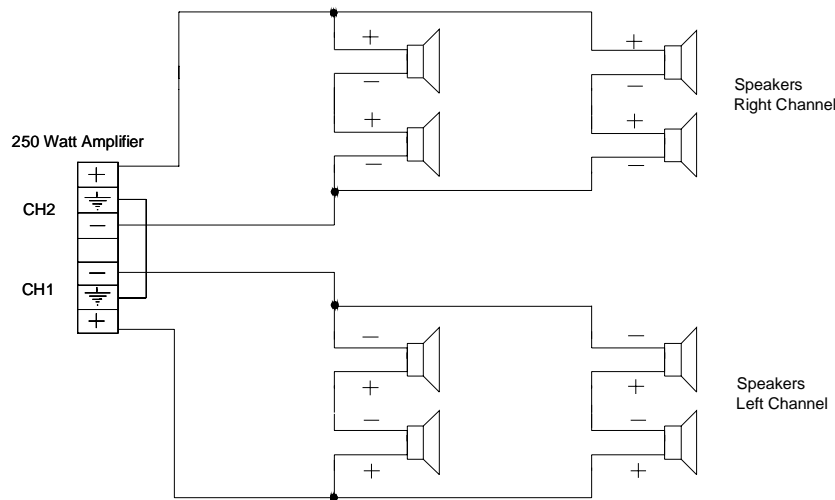
DIAGRAM 3

NOTE: FOR BEST SOUND, SPEAKERS
WIRED IN SERIES SHOULD BE OF THE
SAME MAKE AND MODEL.

**CONNECTIONS FOR EITHER
4 OHMS SPEAKERS OR 8 OHM SPEAKERS**

250 Watt Amp

CH2 GND

+

−

NC

4 Ohm = 64 Watts
8 Ohm = 32 Watts
Per Speaker

CH1 GND

−

+

8/4 Ohm

8/4 Ohm

8/4 Ohm

8/4 Ohm

Speakers
Right
Channel

Speakers
Left
Channel
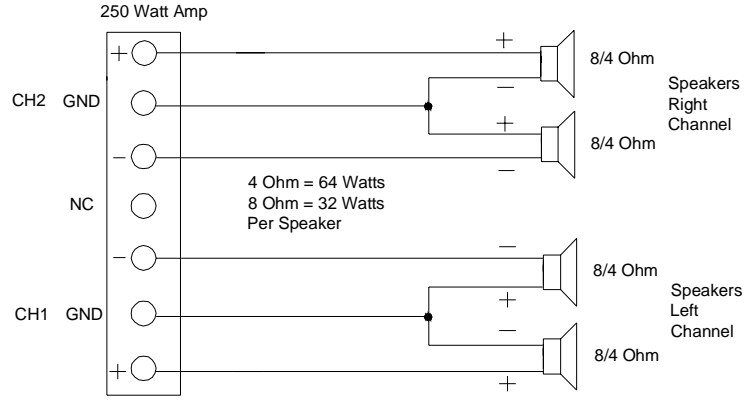
DIAGRAM 4

NOTE: FOR BEST SOUND
SPEAKERS WIRED IN SERIES
SHOULD BE OF THE SAME
MAKE AND MODEL.

**PARALLEL CONNECTIONS
FOR 8 OHM SPEAKERS**

250 Watt Amp

+

CH2 GND

−

NC

CH1 GND

−

+

Speakers
Right
Channel

Four 8 Ohm Speakers
@ 32 Watts each
per channel

Speakers
Left
Channel
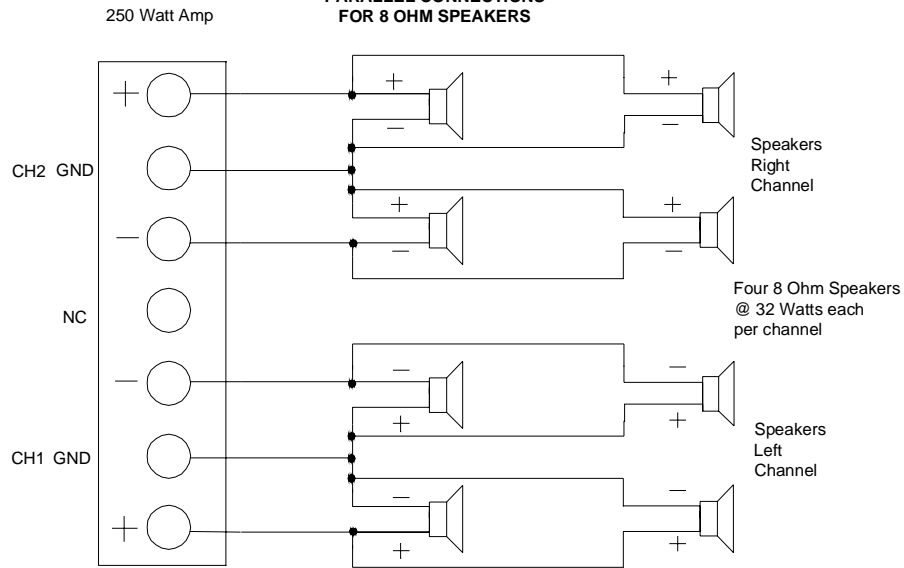
DIAGRAM 5

NOTE: FOR BEST SOUND
SPEAKERS WIRED IN SERIES
SHOULD BE OF THE SAME
MAKE AND MODEL.

SPEAKER CONNECTION GUIDE
for MoD BoX Deluxe

The output transformer (standard in MoD BoX Deluxe models, or available as a separate kit, part number KOV-106-000-05), provides various power taps for the easy connection of all types and power ratings of speakers. It provides a convenient way to balance and adjust output power levels to different listening zones and can be used to drive 70-ohm speakers.

Use the following guide and diagrams 6-10 to make the desired speaker connections. Be careful to use the correct speaker polarities.

AUDIO DISTRIBUTION OUTPUT TRANSFORMER

Taps	Speaker Impedance	Power	Voltage
E1 to E7	8 Ohms	125 Watts	31.6 V RMS
E1 to E6	8 Ohms	62.5 Watts	22.4 V RMS
E1 to E6	4 Ohms	125 Watts	22.4 V RMS
E1 to E5	8 Ohms	31 Watts	15.8 V RMS
E1 to E5	4 Ohms	62.5 Watts	15.8 V RMS
E1 to E4	8 Ohms	8 Watts	8 V RMS
E1 to E4	4 Ohms	16 Watts	8 V RMS
E1 to E3	8 Ohms	2 Watts	4 V RMS
E1 to E3	4 Ohms	4 Watts	4 V RMS
E1 to E2	8 Ohms	0.5 Watts	2 V RMS
E1 to E2	4 Ohms	1 Watt	2 V RMS

Speaker Power Calculation Sample

Tap E1 to E5 equals 15.8 Volts, which you square (15.8 x 15.8 = 249.64). Now divide 249.64 by 4, which represents the impedance of a 4-ohm speaker. The answer is 62.41, which is in watts. Remember you must not exceed 125 Watts.

Multiple Speaker Impedance Sample Calculation

If you wire two 8-ohm speakers in parallel, the simple formula is 8 x 8 = 64 divided by 8 + 8 = 16
(64 / 16 = 4 Ohms). Now you decide to add a third 8-ohm speaker in parallel with the above two. Just take your 4-ohm answer times the new 8-ohm speaker (4 x 8 = 32 divided by 4 + 8 = 12) (32 / 12 = 2.66 Ohms).

Total output power per channel 125 watts max.

SAMPLE SPEAKER CONNECTIONS
FOR DELUXE MODELS

8 Ohm Speakers Output 31 Watts per speaker

4 Ohm Speakers Output 31 Watts per speaker

4 Ohm Speakers Output 15.6 Watts per speaker

DIAGRAM 6

DIAGRAM 7

DIAGRAM 8

4 Ohm Speakers Output 62.5 Watts per speaker

8 Ohm Speakers Output 62.5 Watts per speaker

4 Ohm Speakers Output 62.5 Watts per speaker

Note:
By using more speakers sound coverage is distributed around a room without localized high sound areas that one or two speakers would generate.

DO NOT BRIDGE AMPLIFIER CHANNELS

Each Speaker Output -- 125 Watts Each

Speaker - CH2

Speaker - CH1

Two 8-Ohm Speakers each rated at a min. of 150 Watts each.

E1 –
E7+
E1 –
E7+

250 watts

Amplifier

DIAGRAM 9

Speakers - CH2

Speakers - CH1

Four 8-Ohm Speakers each rated at a min. of 75 Watts each.
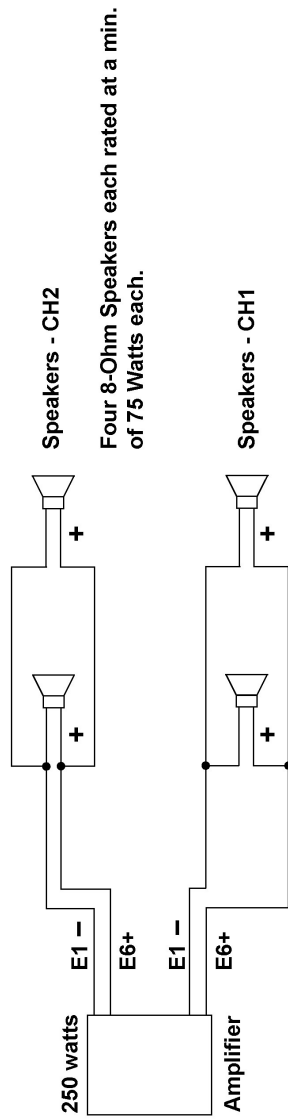
Each Speaker Output -- 62.5 Watts Each (125 Watts per pair)

E1 –
E6+
E1 –
E6+

250 watts

Amplifier

DIAGRAM 10

DUAL VOLUME CONTROL 4-WIRE

W
B
R
G

W
B
R
G

Dual Remote Volume and Cancel Control

SHORTING
LINK

W
CH1 VOLUME W.V.
CH2 VOLUME V
COMMON B
CANCEL O

TERMINAL BLOCK FOR PRIMARY AMPLIFIER
(PART OF CONTROL PANEL)
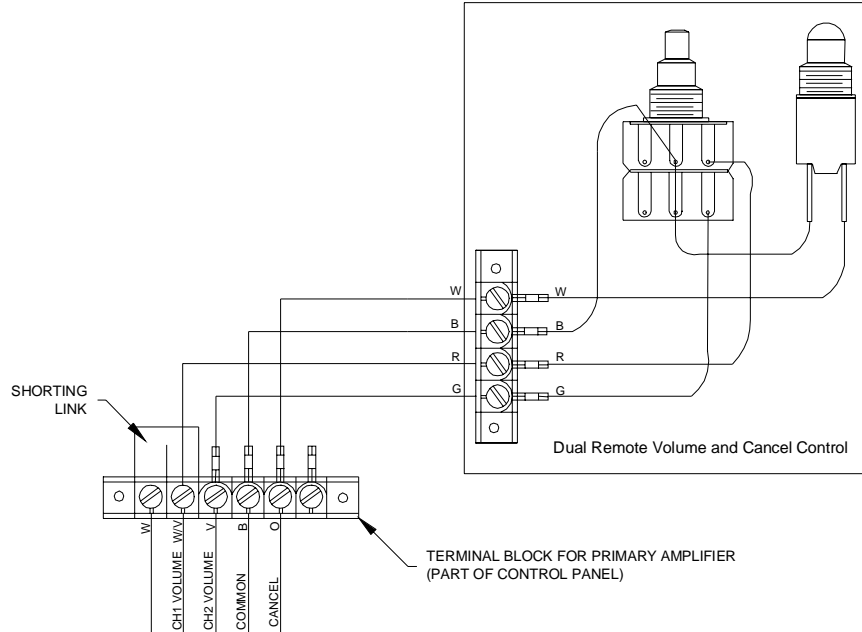
SINGLE VOLUME CONTROL 3-WIRE

W
B
R

W
B
R

B

Remote Control and Cancel Control

SHORTING
LINK

W
CH1 VOLUME W.V.
CH2 VOLUME V
COMMON B
CANCEL O

TERMINAL BLOCK FOR PRIMARY AMPLIFIER
(PART OF CONTROL PANEL)
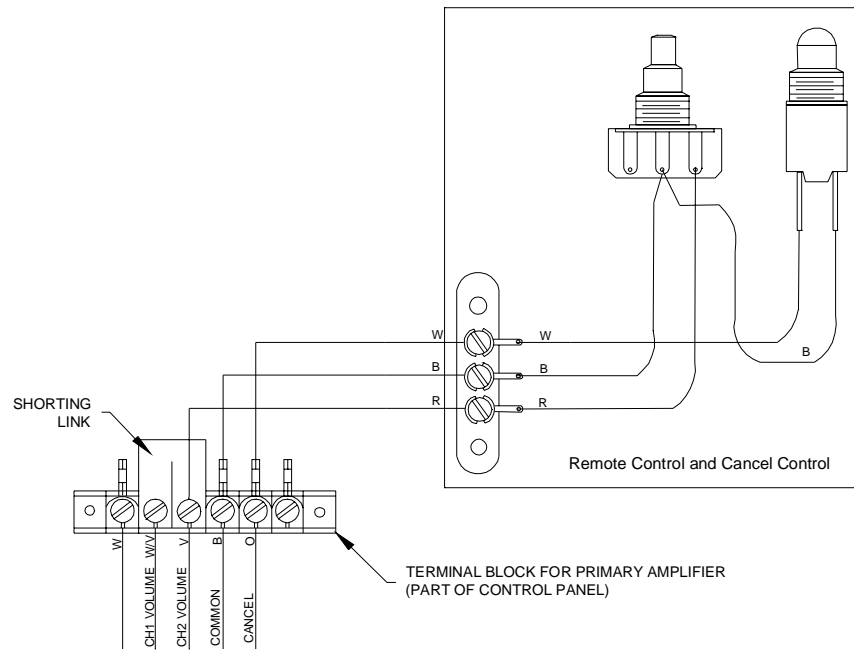
Section 5: Perimeter Lighting Controller

If your MoD BoX includes the optional perimeter lighting on the door, there are operational adjustments and pattern options that can be used. This section describes the available options and explains how to program these options using the Lighting Controller that is mounted on the back of the monitor (see Figure 5.1).

There are two push button switches on the LED Controller. One switch controls the "PATTERN", and the other switch controls the "BRIGHTNESS ".

The "PATTERN" option has 5 different settings. Push and release the "PATTERN" push button to move between the settings. The settings are:

    #1. BRIGHTNESS CONTROL (Light is on and remains at a constant level)

    #2. FLASHES ON AND OFF AT THE PRESET BRIGHTNESS (See below)

    #3. FLASHES ON AND OFF AT FULL BRIGHTNESS

    #4. REPEATING FADE IN AND OUT AT: PRESET... OFF... PRESET BRIGHTNESS (See below)

    #5. REPEATING FADE IN AND OUT AT: FULL... OFF... FULL BRIGHTNESS

Pushing the "PATTERN" push button again repeats the sequence from #1.

The BRIGHTNESS option presets the brightness at a level lower than the maximum brightness possible. If your jukebox is in a location where full brightness is too high, preset the brightness to a lower level and choose either PATTERN #1, #2 or #4.

To change the preset maximum brightness, proceed as follows:

    Push and release the "PATTERN" push button until the light is steady (not fading or blinking). This is PATTERN #1. Next, press and hold the "BRIGHTNESS" push button: the light output will either increase or decrease toward the maximum or minimum level. Hold the push button until the brightness level is at either maximum or minimum - then release it. Press and hold the "BRIGHTNESS" push button after reaching either endpoint to change the brightness in the opposite direction. Regardless of which direction the brightness is changing, when the desired maximum brightness is reached, release the push button and that level will be used as the PRESET brightness.

    Now use the PATTERN push button to choose the desired operating PATTERN.

    You may leave the PATTERN at the #1 setting for a steady light level.

LIGHTING
CONTROLLER   BRIGHTNESS   PATTERN
                  CONTROL   CONTROL
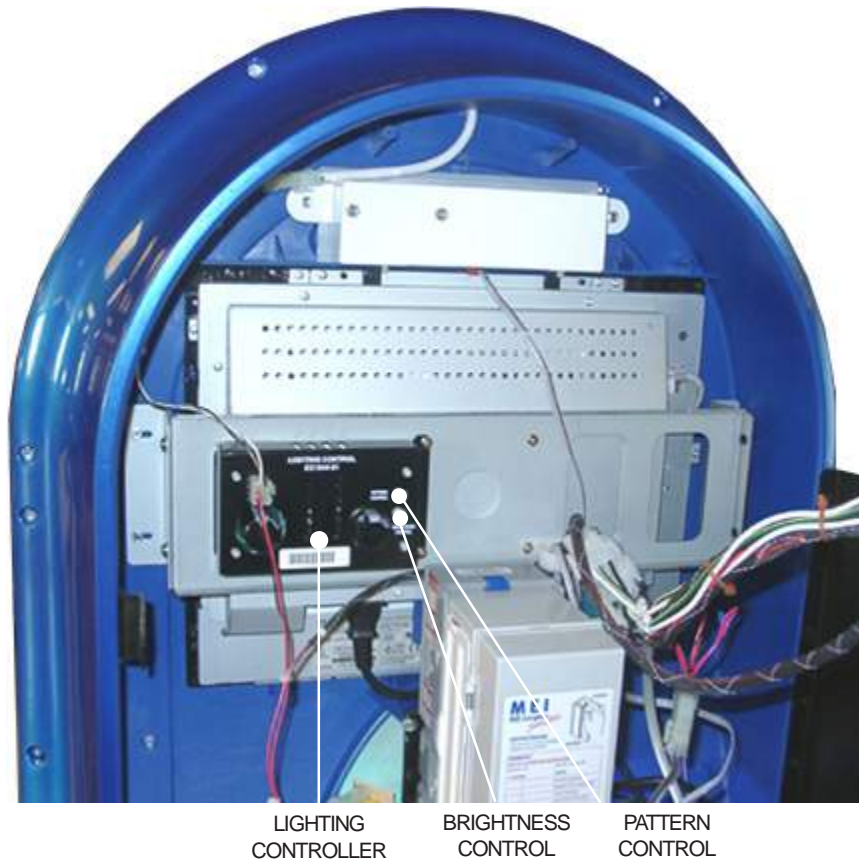
FIGURE 5-1 - LIGHTING CONTROLLER ON MOD BOX DOOR

Section 6: Routine Service

INTRODUCTION

Routine and preventative maintenance is to be performed on your normal periodic service call. This section discusses how to collect money, perform the cash audit, and do preventive maintenance procedures. Setup features such as Background Music, Free Play, etc. and statistics collection, such as Collection and Popularity Reports, are done at the jukebox. Certain tasks are done by using the AMI Entertainment Web site via the Internet. Log in to www.amientertainment.net and following the on-screen instructions to add/delete local music, view the current status of your jukebox(es) and view revenue and popularity statistics. The User ID and a Password is obtained when the Operators Contract is signed.

PREVENTIVE MAINTENANCE

Preventive maintenance should be performed at regular intervals. At every visit, the exterior should be cleaned and the touch screen should be re-calibrated. Every 3-4 months, the interior should be cleaned.

Exterior

Part	Procedure
Touch Screen	Clean with household glass cleaner and paper towel or clean cloth. *CAUTION: <u>DO NOT SPRAY CLEANER ON THE TOUCH SCREEN.</u> SPRAY CLEANER ON THE TOWEL, THEN CLEAN THE TOUCH SCREEN.* After cleaning the touch screen it may not respond to touch for a few seconds.
Cabinet and Lens	Cloth moistened in water with any mild cleaning product.
Calibration	Please see the following procedure.

Touch Screen Calibration

The following procedure describes how to calibrate the touch screen:

1. Power on the MoD BoX jukebox and boot up the application.
2. Open the front door of the jukebox.
3. Locate the "**Calibrate**" button on the Communication Controller (see Figure 3-6).
   Press the button once to launch the calibration program. This will override the application while the program runs. See the screen display below.
4. Close the front door and make sure it locks.
5. Follow the directions on the screen, touching the center of the targets, then touching "**YES**".
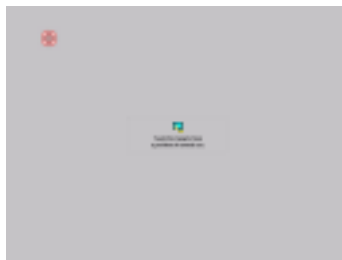
FIGURE 6-1 - CALIBRATION SCREEN

Section 7: Troubleshooting

INTRODUCTION

The MoD BoX Jukebox incorporates several modules which plug in for rapid service. The most likely cause of jukebox problems are:

1. Continuous or intermittent opens in a harness. The cause can be wiring, a terminal, or a bad terminal crimp.

    • Check that all plugs are firmly seated.

    • Check that connector pins are not bent, broken, or pushed through the back of connectors when mated.

2. A defective module. Troubleshooting procedures are directed at module replacement, not repair.

A summary of the functions for each of the jukebox's replaceable modules is in Section 1.

The troubleshooting topics presented in this section are:

• The MoD BoX's LED's are described and can help you isolate a problem.

• Wiring diagrams (see Figures 7-2 through 7-5) to help you isolate the problem to a harness or a module.

• Modular Troubleshooting Charts that list the Trouble, Symptom, and Probable Cause.

MOD BOX LED'S

POWER SUPPLY BOARD

+9 V LED
Should be on. On when +9 VDC is available at the Power Supply.

+12 V LED
Should be on. On when +12 VDC is available at the Power Supply.

+24 V LED
Should be on. On when +24 VDC is available at the Power Supply.

VALID IR LED (optional) (mounted remotely)
On POWER UP (+9 VDC applied to the COMMUNICATION CONTROLLER via the POWER SUPPLY) this LED flashes 3 times. It also flashes when a <u>VALID</u> IR Remote signal is seen.

COMMUNICATION CONTROLLER

5 VDC, 12 VDC, 24 VDC, and 24 VAC LED's
Should be on. On when there is power to the COMMUNICATION CONTROLLER.

IR RCV LED
Flashes whenever any IR signal is seen by the IR RCVR (optional). May flash due to ambient light.

KID RL TX LED
Should be flashing **. Flashes when the COMMUNICATION CONTROLLER sends an RL signal back to CORE COMPUTER. Rate is approximately ten times per second.

CC RL RX LED
Should be flashing**. Flashes when COMMUNICATION CONTROLLER receives a RL signal from one of the RS-485 bus devices. Appears almost continuously on (rate is more than 20 times per second).

CC RL TX LED
Should be flashing **. Flashes when Communication Master Commands are sent from the Computer Core. Appears almost continuously on (rate is more than 20 times per second).

CRDT RL TX LED
Should be flashing **. Flashes when the COMMUNICATION CONTROLLER sends a RL signal back to the CORE COMPUTER. Rate is approximately once per second.

CRDT STATUS LED
Will flash when a coin is inserted and the CRDT RL TX LED is flashing. May or may not flash when coin is inserted if the CRDT RL TX LED is not flashing.

** When the COMPUTER CORE ASSEMBLY is powered up, then it may take several minutes for the LED's to start flashing.

COMPUTER CORE ASSEMBLY

+5 V LED (GREEN)

This should be lit whenever the jukebox is connected to 120 VAC service.

HDD LED (RED)

This LED should be lit only when the hard drive is being accessed by the computer.

HDD LED

+5 V LED
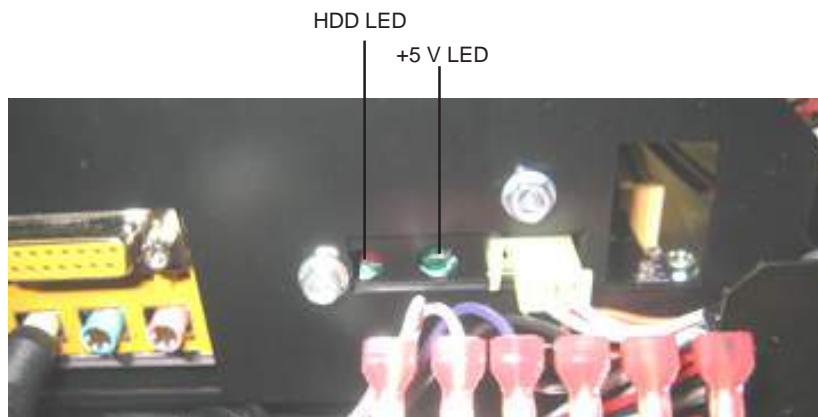
FIGURE 7-1 - HDD AND +5 VOLT LEDS

SEQUENCE OF OPERATION

Step 1: Power on the jukebox

- With the System Power Supply power switch in the ON position, plug the AC power from the back of the jukebox into a standard, grounded wall outlet.
- If the CC does not automatically start to boot-up, press the power reset button in once and release.

Step 2: The operating system automatically begins to boot. The following is viewed on the monitor:
Low-level hardware checks
Windows XP Embedded Operating System Loads
The AMI Entertainment® Software Application Loads

Step 3: The user interface (see Figure 3-7) is viewed on the monitor. No music is in the queue, no selections are available and the amplifier is muted.

Step 4: Customer provides a form of payment. **"Credit"** displays a value greater than 0.
For cash:
- Bill Acceptor takes the money
- Acceptor outputs pulse(s) to the Controller (no escrow)
- Communication Controller sends money information to the computer via the RS-485 bus.
- Computer increases the credits accordingly
- **"Credit"** is changed on the application (monitor)

Step 5: Customer makes a song selection
For local music:
- Customer touches album name, song name, and confirmation to make selection
- Touch screen sends selection information to the computer
- The song is placed into queue and 1 credit will decrement
For downloadable music:
- Customer touches song name to make selection
- Touch screen sends selection information to the computer
- Application prompts customer to approve that the selection will cost 1 extra credit
- 2 credits removed and song is placed in queue
- Computer begins to download song from Internet to the local drive
- The download may take 3-5 minutes depending on network traffic and the number of downloaded songs selected before hand

Step 6: Selection is played
- Computer sends a message to the Communication Controller to un-mute the amplifier.
- Song is located on the local computer hard drive, and played. Use the Volume Control to adjust volume.

CONNECTION DIAGRAMS

FIGURE 7-2 - COMMUNICATION CONTROLLER WIRING DIAGRAM

FIGURE 7-3 - COMPUTER WIRING

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POWER TRANSFORMER

32 VAC   32 VAC   20 VAC 20 VAC   20 VAC   12 VAC 12 VAC

115 VAC   115 VAC

B   B/G B/R   B/Y

Turns voltages in
PHONO LIGHTS
connector ON/OFF

S/Y   S/Y

TO AMP ASSEMBLY
POWER CONNECTORS
J1 & J13

SYSTEM POWER SUPPLY

TO BOTTOM LEAD OF PRIMARY # 2
TO TOP LEAD OF PRIMARY # 2
TO BOTTOM LEAD OF PRIMARY # 1
TO TOP LEAD OF PRIMARY # 1
LINE (120 ~)
NEUTRAL

*R/Y   CB2   6A
*BR/W

CB1   6A

120 VAC JUMPER ASSY

LINE (120 ~)
COMPUTER

N   L
120 V, 60 ~ Mains Inlet
(Power Cord)

CB3   3A

P4

TO ROUTER POWER
SWITCHBOX

TO COMPUTER POWER
INLET

CBA-SYSTEM

+12 VDC

PWR
SUPPLY

4.7k

Stripe
+12V FILTERED
+12 V COMMON
+24 VP DC
+24V COMMON
24 VAC FUSED
24 VAC

Stripe
+9 VDC
+9 COM
ON/OFF CTRL

4.7k

4.7k

+9 VDC
+12 VDC
+24 VPDC

Harness

PHONO LIGHTS

*W   AC COMMON
GROUND
120VAC

+12V DC
+12V COMMON
+5V DC
+5V COMMON

TO BILL
ACCEPTOR
& DISPLAY

LOGO
BACKLIGHT

BILL ACCEPTOR
LIGHT

STANDARD
BILL ACCEPTOR
LIGHT

OPTIONAL

BILL ACCEPTOR
LIGHT AND LED
POWER CONTROL

PROG

BRITE

LED CONTROLLER

TO
CABINET
FANS

TO COMMUNICATIONS
CONTROLLER
CONNECTOR P14

TO COMMUNICATIONS
CONTROLLER
CONNECTOR P23

FROM COMMUNICATIONS
CONTROLLER
CONNECTOR P17

+24PVDC
+24VDC SWITCHED
+24VDC
GND
CONTROL

LED ROPE LIGHT

FIGURE 7-4 - POWER WIRING

PM0599-06   MOD BOX INSTALLATION & OWNER'S MANUAL   52

AUDIO DISTRIBUTION TRANSFORMER KIT   KOV-106-000-05
(Optional)

OUTPUT TRANSFORMER ASSEMBLY

Remove cover to access two 4 A fuses located on
CBA-OUTPUT RESISTORS. A blown fuse is indicated by low
audio level and can be caused by a short circuit in
speaker wiring or speaker loads greater than 125 watts.

CH 1 (left)   A1 A2 A1 A2   CH 2 (right)

CHANNEL 1 (left)   CHANNEL 2 (right)
E1 E2 E3 E4 E5 E6 E7   E1 E2 E3 E4 E5 E6 E7

B/W   BR   B   G

Harness

(To Amp J2)

SPEAKER TERMINAL
BLOCK ASSEMBLY

CH 1 (left)   CH 2 (right)

FROM COMPUTER
AUDIO OUT

FROM
COMMUNICATIONS
CONTROLLER
CONNECTOR P3

TO COMMUNICATIONS
CONTROLLER
P15

JUMPER PLUG

J7   J3
MIC INPUT   JUMPERS   J9   J10

O/B

J8
MUTE

CANCEL

VOLUME

7 BAND PREAMP

AUDIO IN CH 1   AUDIO IN CH 2
LEFT   RIGHT

J2
OUTPUT

250 WATT
AMPLIFIER

CH 1 OUT (L) J11   J4   CH 1 IN (L)
CH 2 OUT (R) J12   J3   CH 2 IN (R)

J6
VOLUME CTRL

J13
POWER
40 Vac CT

J1
POWER
32 Vac 32 Vac

AUDIO AMPLIFIER ASSEMBLY

FROM POWER
TRANSFORMER

FIGURE 7-5 - AMPLIFIER ASSEMBLY

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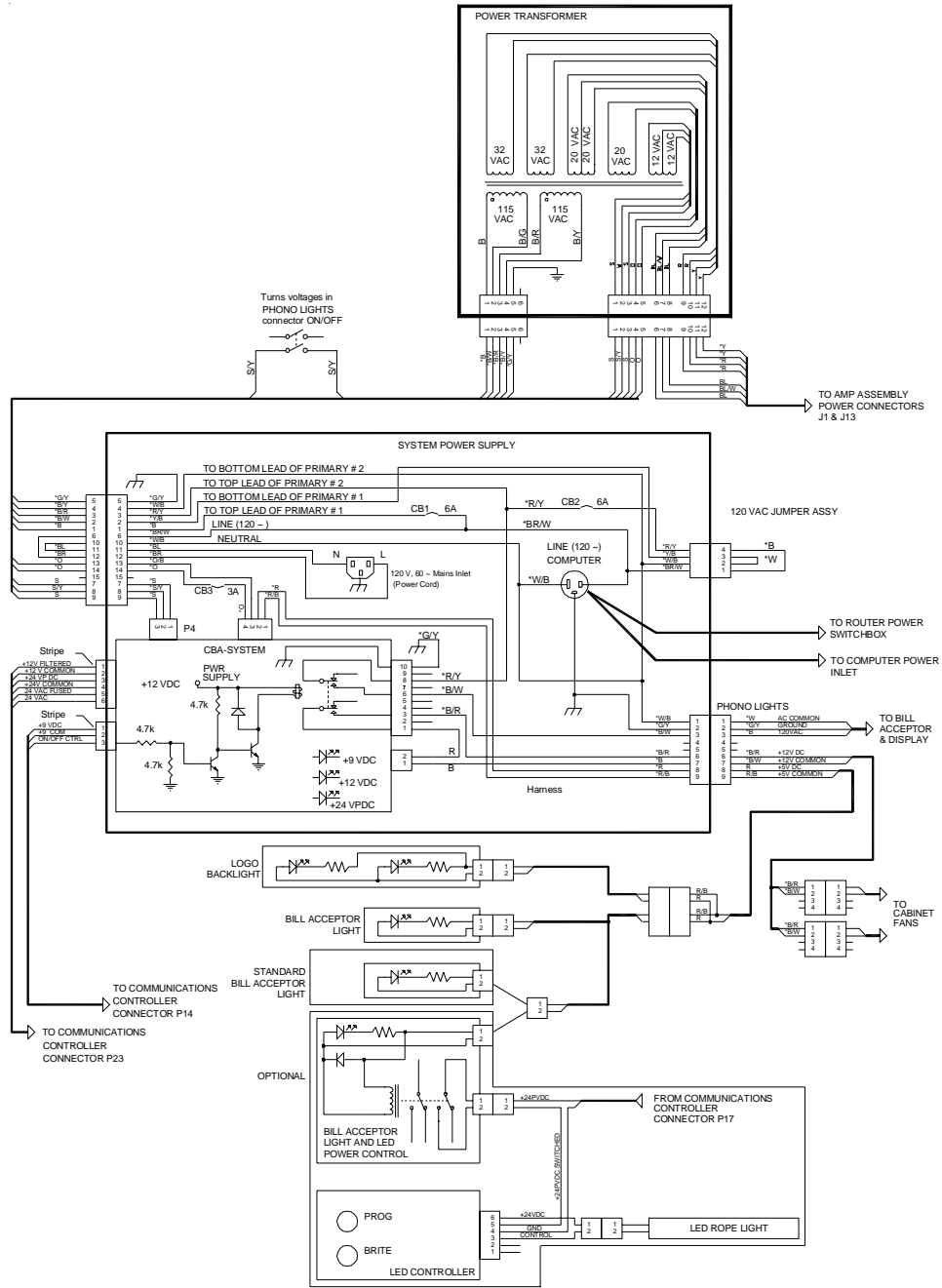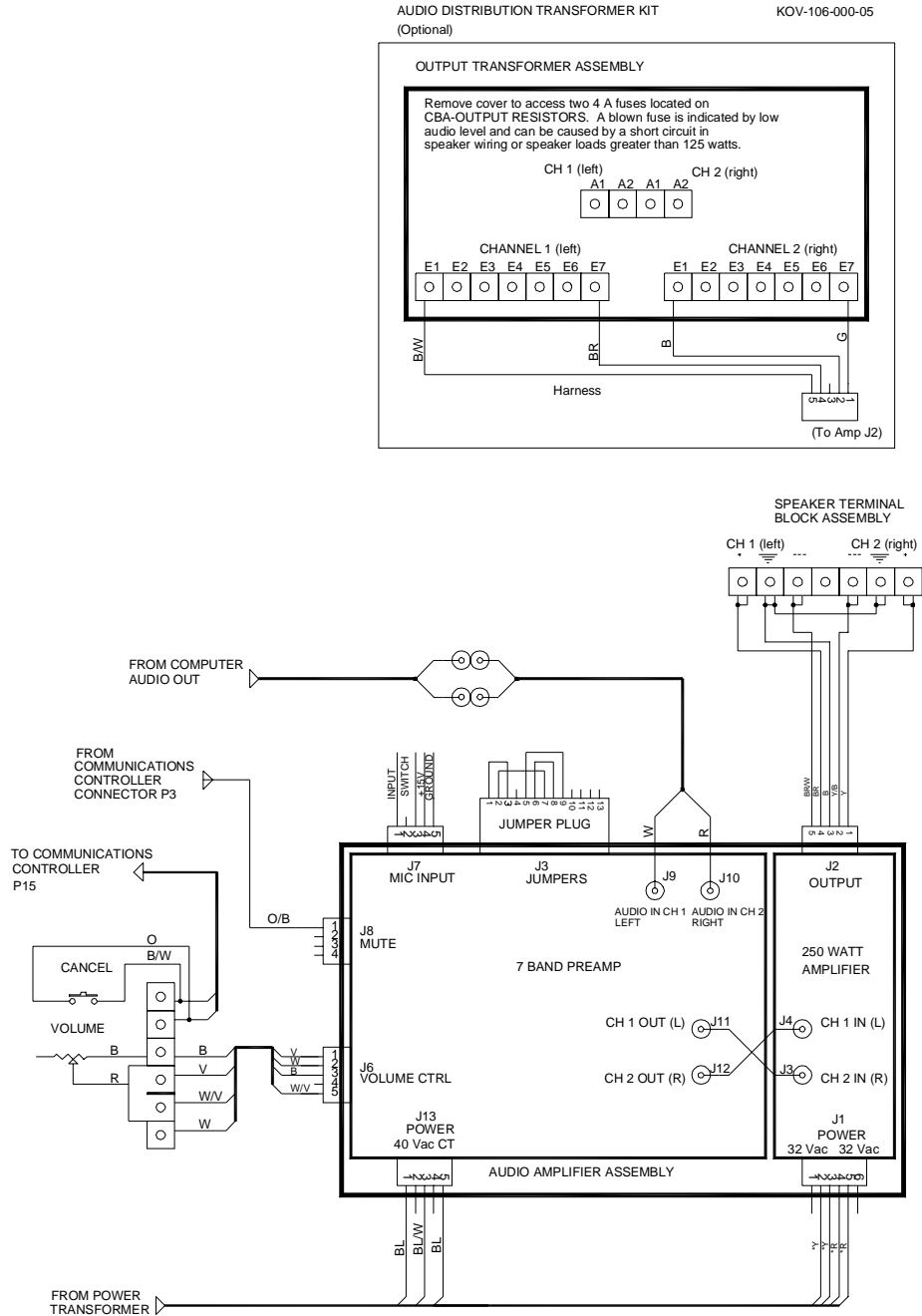
Start with finding the "**Trouble**" column that relates the closest to the problem you are experiencing and then match it to the closest "**Symptom**". There can be many "**Probable Causes**" listed for each Symptom. The Probable Causes are listed in increasing order of probability.

PROBLEM	SYMPTOM	PROBABLE CAUSE
Application does not boot up.	At the first boot up screen, "Detecting IDE Primary Master" reports "None".	1. There is no hard drive in the computer. 2. The plugs are not completely seated in the hard drive. 3. The data cable or power plug (CC box internal) has come loose from the main board or hard drive.
	The boot up process stops at "DISK BOOT FAILURE, INSERT SYSTEM DISK AND PRESS ENTER."	1. The hard drive in the CC box has come loose and needs to be reseated. 2. There is no hard drive in the computer. 3. The data cable or power plug (CC box internal) has come loose from the main board or hard drive. 4. The CC's BIOS needs to be updated. 5. The hard drive is dead.
Jukebox will not operate when powered ON.	The Bill Acceptor LED's on the front door fail to light.	1. The plug is not completely inserted into the outlet. 2. The wall circuit is not hot.
	The Bill Acceptor LED's come on, but the application will not boot.	The monitor or the system power supply is defective or unplugged.
The monitor does not work.	The computer fan is on, and all systems LED's and lights are normal.	1. The power plug, video cable, or monitor power supply wiring is not seated completely. 2. The system power supply is defective. 3. The monitor is dead.

TROUBLESHOOTING *continued*

PROBLEM	SYMPTOM	PROBABLE CAUSE
The touch screen does not work.	• The application boots up, but the touch screen does not respond to touch.	1. The serial cable is not seated completely at the monitor or at the CC box. 2. The touch screen is dead.
The touch screen will not calibrate.	Nothing happens after pressing the calibration button.	1. The serial cable plug is not fully seated at the monitor or at the CC box. 2. The touch screen is dead.
	The calibration program runs, but will not respond to touch.	1. The serial cable plug is not fully seated at the monitor or at the CC box. 2. The touch screen is dead.
No music from jukebox.	No sound from jukebox, although the application reports "Now Playing…a New Song."	1. Volume control is turned all the way down. 2. Volume control is broken. 3. Audio cables are disconnected or loose from the CC box or the pre-amp. 4. The amplifier is overloaded and shutdown.
	No sound from jukebox and the application doesn't appear to be playing the song selected.	1. There are no more credits available for play. 2. Reject song was activated.
Machine is locked up during normal runtime.	Coin acceptor is taking money but credits are not accumulating and the touch screen is not responsive.	CC is locked up. Power up by pressing and releasing the ATX Reset Switch.
The bill acceptor does not work.	The bill acceptor will not accept a bill.	1. The cash box is full. 2. The cash box was not re-installed on bill acceptor correctly. 3. There is a jammed bill in the device. 4. The plugs are not inserted securely at the acceptor. 5. The bill acceptor is defective.
	The green lights at the bill acceptor lip are not flashing.	1. The cable is damaged at the acceptor. 2. The bill acceptor is defective.

TROUBLESHOOTING *continued*

PROBLEM	SYMPTOM	PROBABLE CAUSE
Location Network line not installed in the Location.	There is no designated broadband line installed in the Location.	1. The inside wiring installation appointment was not scheduled. 2. The inside wiring installation has not occurred. 3. The line was not installed in the pre-selected location. 4. The line (jack) was not labeled by the technician.
Router does not work.	When the power supply is connected to the router, nothing happens.	1. The AC power plug is not fully inserted in the receptacle on the back of the router. 2. The wall plug is not "hot".
	The "Link/Act #" light, in the front of the router, does not light up when an Ethernet cable is plugged in the respective Port.	1. The Ethernet port is defective. 2. The jukebox is not powered on. 3. The cable is loose at the CC box in the jukebox.
	The WAN light does not light up.	1. The broadband connection is not plugged into the WAN port. 2. The cable modem or DSL modem is not powered on.
The "Music On Demand" feature does not work.	The feature has never been available in the location.	1. There is no Ethernet cable connection between the router and the jukebox. 2. The Ethernet cable is not fully seated in the port on the CC box or in the back of the router. 3. The connection is loose between the installed line and the router. 4. The cable is bad. 5. The Internet line is down.
	The feature was available, but is no longer available.	1. The connection has become loose between the router and the jukebox. 2. The connection has become loose between the installed line (jack) and the router. 3. All the lights are ON, on the front of the router. 4. The router was shut off or lost power. 5. The Internet service provider (ISP) is down. 6. The AMI Entertainment® server is down.

For additional assistance, after contacting your distributor, contact:

Merit Product Support and Services

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Outside the USA and Canada call:
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FAX: (215) 639-5346

Merit Entertainment P.O. Box 5004, Bensalem, PA 19020-8529.

You can also visit our Web site
www.meritgames.com

AMI Entertainment

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(1-877-ROC-N-ROL)

Outside the USA and Canada call:
(616) 243-3633

E-mail: support@amientertainment.net
www.amientertainment.com

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(b) Failed PCBs are accumulated for a time period or quantity accumulation, as designated by Merit and sent in one shipment to save shipping expenses.

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13. LE CONCEDANT NE SERA EN AUCUN CAS RESPONSIBLE : D'UNE RUPTURE DE CONTRAT, DES DOMMAGES, Y COMPRIS TOUTE PERTE DE PROFIT, PERTES D'ECONOMIE OU TOUS AUTRES DOMMAGES INDIRECTS OU DOMMAGES-INTERETS ACCESSOIRES DECOULANT DE LA MAUVAISE UTILISATION OU DE L'IMPOSSIBILITE D'UTILISATION DU LOGICIEL.

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14. La validité et la construction du présent Contrat et les droits et obligations ci-inclus seront déterminés et régis par les lois de l'état de New York aux États-Unis. En acceptant les dispositions du présent contrat, vous acceptez également que tous litiges ou revendications relatives seront réglés par voie d'arbitrage par un tribunal de l'état de New York, aux Etats-Unis.

15. Merit Industries se réserve le droit de transférer le présent Contrat à un tiers ainsi que ses droits et obligations ci-après.

16. Pour toutes questions concernant le présent Contrat -ou si vous désirez contacter le Concédant pour une raison quelconque, veuillez écrire à : Merit Industries, Inc., 2525 State Road, Bensalem, PA 19020, Etats-Unis.

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Beschränkungen

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Allgemein

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