

ARCHITECTURAL  
ACOUSTICS®



AUTOMIX 4™

FOUR CHANNEL  
MINI AUTOMATIC MIXER

USER MANUAL



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.



Intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**CAUTION:** Risk of electrical shock — DO NOT OPEN!

**CAUTION:** To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

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**WARNING:** To prevent electrical shock or fire hazard, do not expose this appliance to rain or moisture. Before using this appliance, read the operating guide for further warnings.



Este símbolo tiene el propósito, de alertar al usuario de la presencia de “(voltaje) peligroso” sin aislamiento dentro de la caja del producto y que puede tener una magnitud suficiente como para constituir riesgo de descarga eléctrica.



Este símbolo tiene el propósito de alertar al usuario de la presencia de instrucciones importantes sobre la operación y mantenimiento en la información que viene con el producto.

**PRECAUCION:** Riesgo de descarga eléctrica ¡NO ABRIR!

**PRECAUCION:** Para disminuir el riesgo de descarga eléctrica, no abra la cubierta. No hay piezas útiles dentro. Deje todo mantenimiento en manos del personal técnico cualificado.

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**ADVERTENCIA:** Para evitar descargas eléctricas o peligro de incendio, no deje expuesto a la lluvia o humedad este aparato. Antes de usar este aparato, lea más advertencias en la guía de operación.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur la présence d'une tension dangereuse pouvant être d'amplitude suffisante pour constituer un risque de choc électrique.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur qu'il ou qu'elle trouvera d'importantes instructions concernant l'utilisation et l'entretien de l'appareil dans le paragraphe signalé.

**ATTENTION:** Risques de choc électrique — NE PAS OUVRIR!

**ATTENTION:** Afin de réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve à l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confiez l'entretien et la réparation de l'appareil à un réparateur Peavey agréé.

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**AVERTISSEMENT:** Afin de prévenir les risques de décharge électrique ou de feu, n'exposez pas cet appareil à la pluie ou à l'humidité. Avant d'utiliser cet appareil, lisez attentivement les avertissements supplémentaires de ce manuel.



Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.



Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.

**VORSICHT:** Risiko — Elektrischer Schlag! Nicht öffnen!

**VORSICHT:** Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden könnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.

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**ACHTUNG:** Um einen elektrischen Schlag oder Feuergefahr zu vermeiden, sollte dieses Gerät nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.

## GENERAL CAUTIONS AND WARNINGS!

To prevent electrical shock or potential fire hazards, do not expose the Automix 4 to moisture or rain. Before using this product, read the user manuals for further warnings and cautions.

The following cautions should be carefully observed when installing, wiring or using this product:



DO NOT use any other power supply or cable other than the one provided with this unit.



DO NOT remove the top cover of the unit. There are no user serviceable parts inside. Refer service to qualified personnel.



DO NOT use solvents or other cleaners to clean the unit. Basic external care requires only a damp cloth. Disconnect the power supply cord before cleaning.



Read all safety and installation instructions and retain all documentation for further reference.



The Automix 4 should be installed so that its mounting position does not interfere with proper ventilation.



This product should not be installed or placed near a source of heat.



Power supply cords and associated connectors should be unplugged from the power source when the unit is not used for long periods of time, or will be stored.



If this product is to be mounted in an equipment rack, install rear support if required by the rack manufacturer.



Care should be taken to ensure that the installation is clear of possible sources of contamination. Make sure that the product's ventilation openings are not exposed to possible sources of liquid, gases, or other contaminant.



This product should be inspected by a qualified service technician if the power supply cord or connector has been damaged, if the unit has been dropped, or if a foreign substance has gained access to the interior electronic and electrical components.

The information contained in this manual is subject to change without notice. Peavey Electronics is not liable for improper installation or configuration. The information contained herein is intended only as an aid to qualified personnel in the design, installation and maintenance of engineered audio systems. The installing contractor or end user is ultimately responsible for the successful implementation of these systems.

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## Thank You!

Thank you for purchasing the Automix 4 Mini Automatic Mixer. This product is designed to provide years of trouble-free operation, and high quality audio performance. We sincerely hope that you enjoy your new Automix 4, and will find other products in the Peavey Architectural Acoustics product line to supplement your new mixer. We are confident that you will find the Automix 4, as well as other Architectural Acoustics products to be of the highest quality available.

This manual was written to provide as much information as possible for your new Peavey Architectural Acoustics product. It is our sincere desire that you enjoy your purchase. We feel that the best way to fully enjoy any purchase is to have an in-depth understanding of the product's features, functionality and performance characteristics. We hope that this manual, along with the manuals of our other products will provide this. If you require additional information that this manual does not provide, please let us know. We are always looking for better ways to provide information about our products, and your input is always appreciated. If you have a comment about this manual, or would like to make a suggestion, please write to: Peavey Electronics Corp., Architectural Acoustics Division, 711 A St., Meridian MS, 39301. Thank you again for using Peavey!

## What's In The Box?

The Automix 4 is packaged in a single container. This container includes the following items:

- 1- Automix 4 Mini Automatic Mixer
- 1- IEC removable power supply line cord  
(120VAC Domestic, 230VAC Export)
- 5- Five-screw Euro connectors\*
- 5- Three-screw Euro connectors\*
- 1- Metal front panel security cover\*
- 1- User Manual/Literature Package
- 4- Rubber feet

\* Asterisk indicates that these items are shipped installed on the Automix 4.

If any of these items are missing, please contact your Authorized Peavey Architectural Acoustics contractor/dealer.

## Description

The Automix 4 is a professional Automatic Microphone audio mixer intended for fixed installation applications. This single rack-mount package is designed to provide high quality audio performance and easy to use controls. Engineered from the ground up with the commercial sound systems contractor in mind, the Automix 4 includes removable screw connectors for easy installation and cost effective servicing, as well as limited front panel user control.

## Features

- Patented Priority Control circuitry
- Single rack space package
- Four microphone inputs
- LED Clip status indicator on each Channel
- 48 volt phantom power on each input (switchable on Channels 1 & 2)
- Recessed gain control for each Channel
- Channels 1 & 2 each have priority assign control
- Channels 1 & 2 each have front panel mute button
- Front panel master level meter (three-segment LED)
- Line level inserts on each Channel
- Insert enable/bypass switch on each Channel
- Gain management computer logic for seamless automatic operation
- Audio and control bus linking
- Rear panel Master/Slave linking mode switch
- Master balanced output
- Mic or line level master output with switch
- Unbalanced aux out
- Removable "Euro" connectors for all audio connections
- Rear panel power switch
- Removable IEC power cable

The Automix 4 provides high quality audio operation, a simple interface and an easy-to-install package. For hands-free operation in new and existing sound systems, the Automix 4 makes sound system operation easy and reliable.

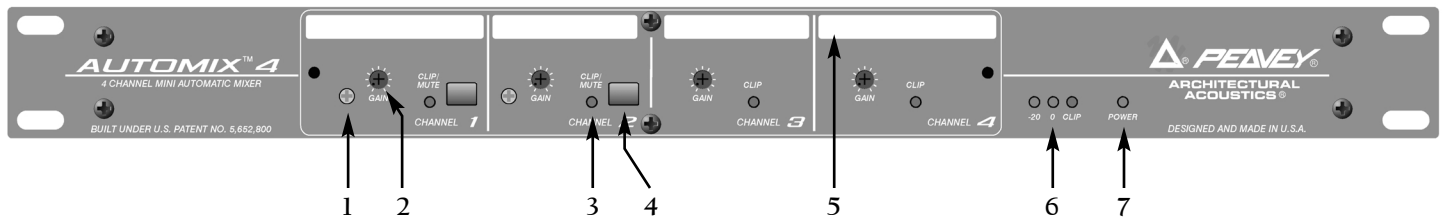
When using multiple microphones, gain control becomes essential. As additional mics are turned on, the levels of other active mics must be reduced to prevent feedback. The Automix 4 gain computer continuously senses the signal from each mic and quickly distributes the available gain among the Channels in use so that you won't miss a single word. Using Peavey's patented (US Patent number 5,652,800) priority circuitry, the Automix 4 eliminates the irritating comb filtering that often occurs when a person speaking into a wireless lapel mic moves close to an active podium mic. With the addition of the Automix 4's ability to link multiple units, this unit provides even more flexibility for a wide range of applications.

- |   |                        |
|---|------------------------|
| - Churches, Synagogues &<br>Religious Centers | - Meeting Rooms        |
| - Presentation Rooms                          | - Convention Centers   |
| - Board Rooms                                 | - Paging               |
| - Courtrooms                                  | - Background Music     |
| - Auditorium/Cafetorium                       | - Retail Spaces        |
| - Lecture Hall Sound<br>Reinforcement         | - Restaurant/Bar Sound |

This manual will show how some of these applications fit into the Automix 4's feature set, and how you can maximize your system designs. To fully grasp all of the functionality and possible uses of the Automix 4, please refer to the Applications section later in this manual.

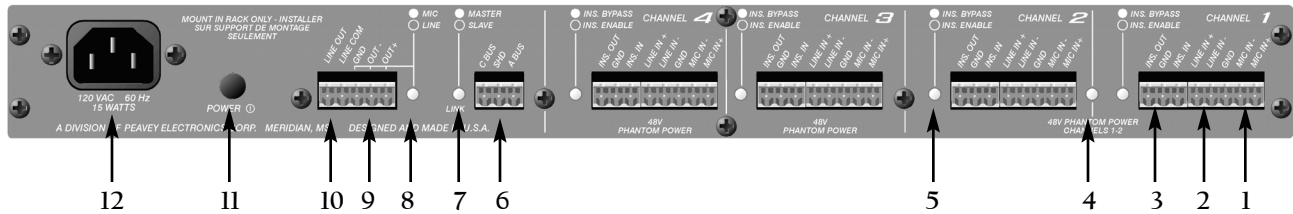
## Front Panel Features (shown with security cover removed)

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1. **PRIORITY CONTROL** This control, found only on Channels 1 & 2, adjusts the amount of priority to the Channel, and how it acts on the auto-mix bus.
2. **GAIN CONTROL** Adjusts the gain of the first preamplifier stage.
3. **CLIP/MUTE LED** This red LED indicates the clipping conditions of the input Channel's first gain stage. On Channels 1 & 2, it also indicates if the Channel is muted from the front panel mute switch.
4. **MUTE SWITCH (Channels 1 & 2 only).** This switch mutes the audio from the selected Channel. When this switch is in, no audio passes from the input stage to the mix bus or gain computer circuits.
5. **CHANNEL LABEL** This is a re-writable surface area for Channel labels.
6. **MASTER OUTPUT METER** This "meter" is a three-segment LED display that provides visual indication of audio levels at the -20 db, 0 db and clipping.
7. **POWER LED** This illuminates when mains power is supplied to the unit and the rear panel power switch is in the ON position.

## Rear Panel Features



1. MIC IN Balanced microphone level input on removable “Euro” connector.
2. LINE IN Balanced line level input on removable “Euro” connector. Both the mic and line inputs feed the same gain stage, but the line input terminals include a pad to accommodate line level signals.
3. INSERT IN/OUT This is a unbalanced direct out and bus in circuit. The GND connector is common to both the INS. OUT and INS. IN points. The output is after the last gain stage, just before the summing bus. The input is a direct path to the summing bus.
4. INS. BYPASS/INS. ENABLE Used in conjunction with the INSERT IN/OUT terminals, this switch determines the internal connection between these points. In bypass mode, the signal will pass through without any modification. In enable mode, the signal is broken to allow for connection of an external device.
5. PHANTOM POWER SWITCH This switch applies 48VDC phantom power to the microphone terminals of Channel 1 & 2.
6. LINK CONNECTOR This three-position connector allows multiple units to be “linked” together for larger systems. The C connector links two or more control bus circuits. The A connector links two or more audio bus circuits. SHD is common to both.
7. LINK SWITCH This switch, in conjunction with the LINK CONNECTOR, enables linking of multiple units. Proper operation is a single “Master” and multiple “Slave” units.
8. MIC/LINE SWITCH Determines the level of the main output. In “line” mode, the output will drive power amplifiers. In the “mic” mode, the output will drive other mic level input circuits.
9. MAIN OUT The output of the Automix 4’s summing bus. The level of this output is determined by the position of the MIC/LINE SWITCH and each input’s GAIN control. This is an electronically balanced output with a common ground.
10. LINE OUT This is an auxiliary unbalanced line level output. This signal is after the last gain stage, at an identical point of the MAIN OUT.
11. POWER SWITCH Applies mains power supply from the A/C POWER RECEPTACLE.
12. A/C POWER RECEPTACLE For standard IEC power cable (included).



## Installation

The Automix 4 is designed to be installed in a standard EIA equipment rack. Since the depth of the unit is only 9-3/8", you can use practically any size rack. Using only a single EIA rack space, the Automix 4 includes integral rack mounting ears and does not require any additional hardware for rack mounting.....other than the rack screws!

All connections for the Automix 4 are made on the rear panel. It is recommended that you provide an additional 4 inches of clearance between the rear of the chassis and the interior rear of your equipment rack for wiring harnesses. Since every connection to the Automix 4 is easy to disconnect, the unit can be removed from an equipment rack easily, without having to disturb fixed wiring harnesses.



Although the Automix 4 does not generate enough heat to warrant forced air or convection cooling, it is recommended that you provide a single rack space vent above, and below the unit when rack mounting. Using common sense when installing this unit will ensure that it will provide years of trouble free service. In installations where there are multiple power amplifiers, it is further recommended that the Automix 4 be located toward the top of the rack, while power amplifiers remain near the bottom. This is generally considered to be standard rack design in the commercial audio industry. Following this convention will ensure adequate rack cooling and reliable operation from the Automix 4.

## Connections

The inputs to the Automix 4 are balanced. This means that there are three wires for each connection, a positive, negative and shield. These should be connected to each pin accordingly. Also, each input has mic level connections AND line level connections. However, only one set can be used at a time. Both connections feed the same gain stage.

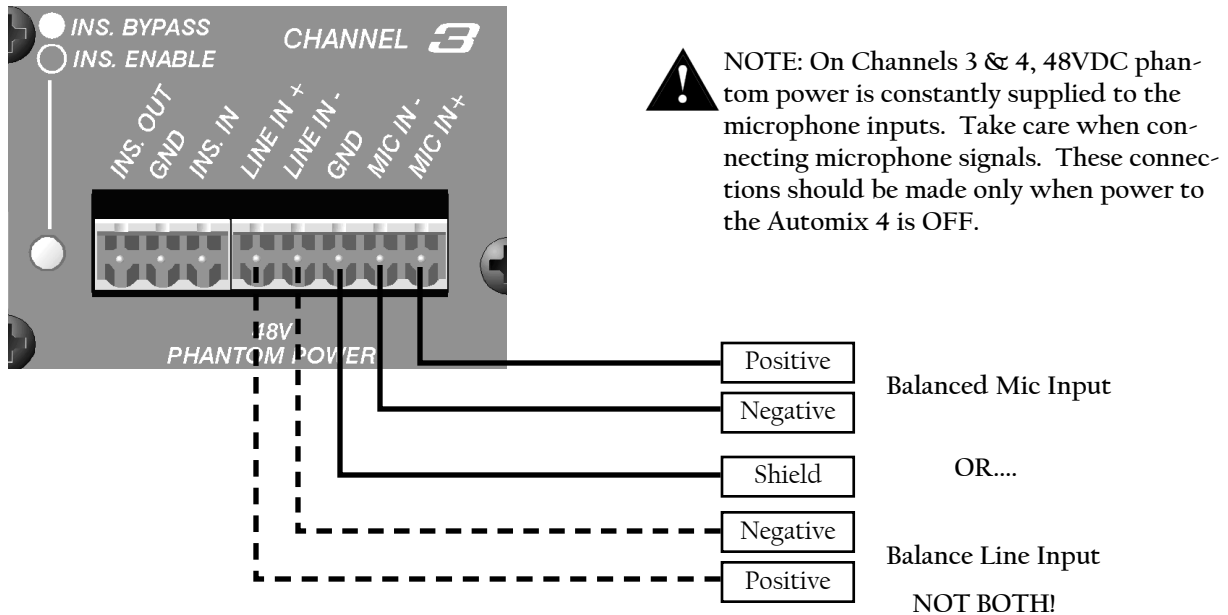


Figure 1. Balanced Audio Input Connections

For unbalanced connections, the GND and negative terminals must be bridged with a jumper. This jumper should be installed on the connector side, not the receptacle side of the connector. When un-balancing a mic connection, the phantom power must be OFF. The example below is typical of mic or line level connections. Only the LINE connection is shown for clarity.

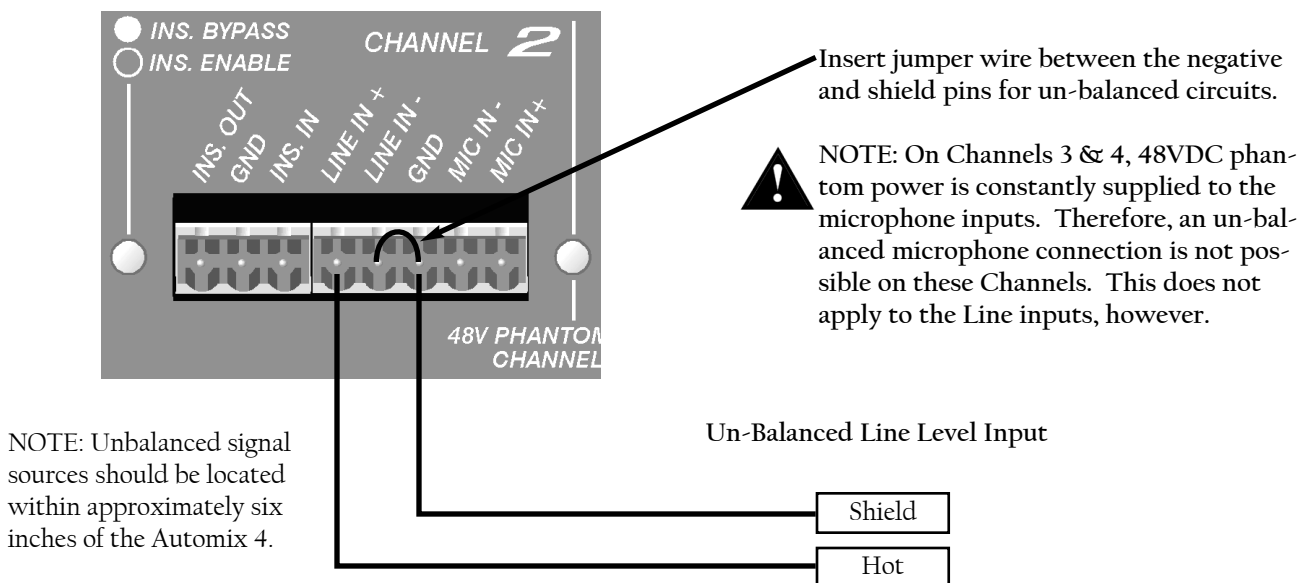


Figure 2. Unbalanced Audio Input Connections

The master output section features two independent sets of outputs, both from the final gain stage of the Automix 4. Normally, the main outputs that would be used to drive the primary power amplifier would come from the balanced output. The secondary output, labeled LINE OUT is un-balanced. Both outputs can be used simultaneously.

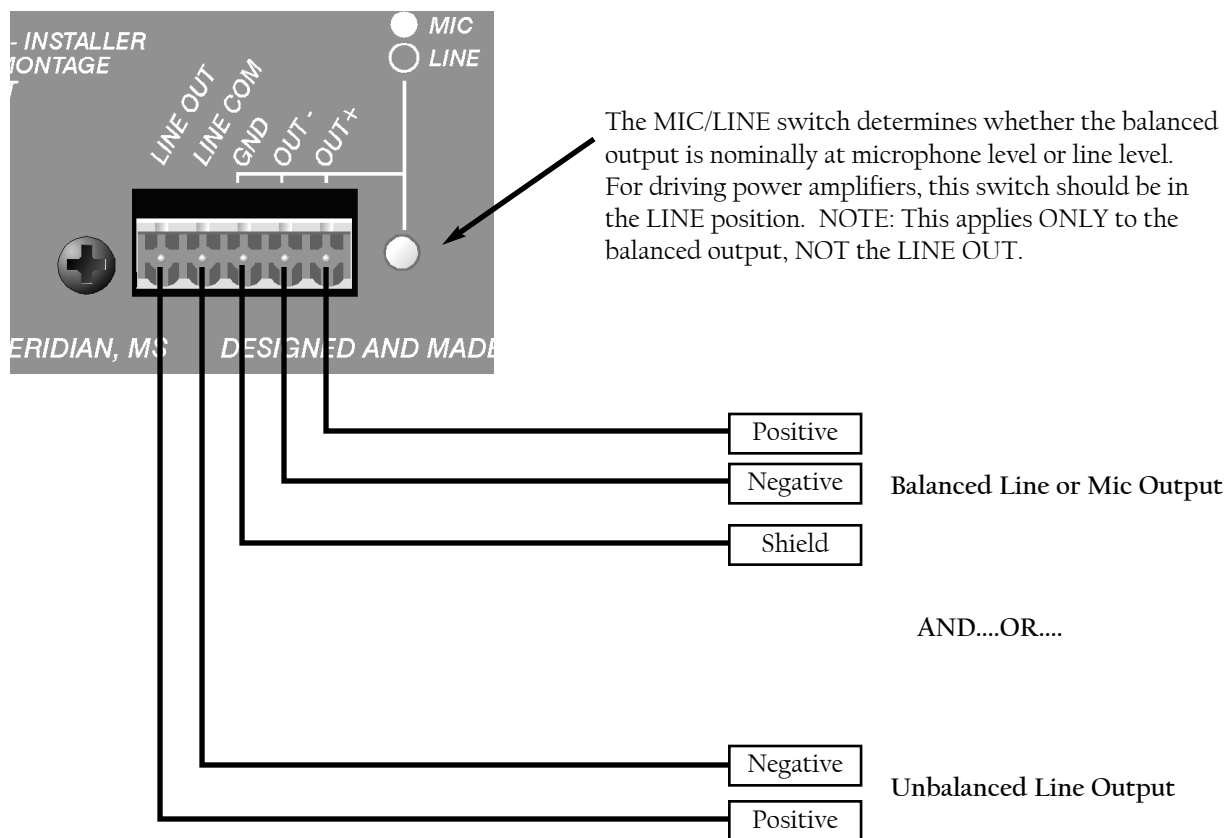


Figure 3. Master Output Connections

The LINK feature provides functionality to combine multiple Automix 4's into a larger system. The link circuitry is designed to allow for separate combine circuits for the audio and control busses. When multiple units are combined, and both the audio and control busses are linked, the gain management feature is unified between all units, thereby providing a larger automatic mixer. The main output would be derived from the master unit, while secondary outputs from the slaves could be used for secondary or monitor feeds.

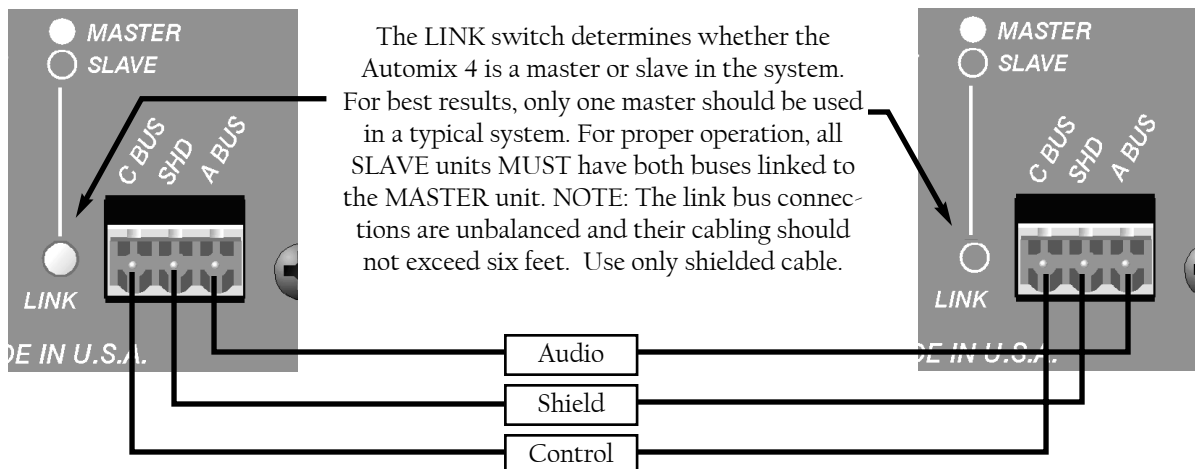


Figure 4. Linking Multiple Automix 4's

Each Channel of the Automix 4 has an insert connection that has several uses for connecting external components. The following examples and connection diagrams illustrate the most common method of using this powerful feature. For proper automatic mixing, the signal gain of the external component **MUST** be 0 db (unity). NOTE: These connections are unbalanced. Care should be taken when considering the distance, type of wire and type of external connection.

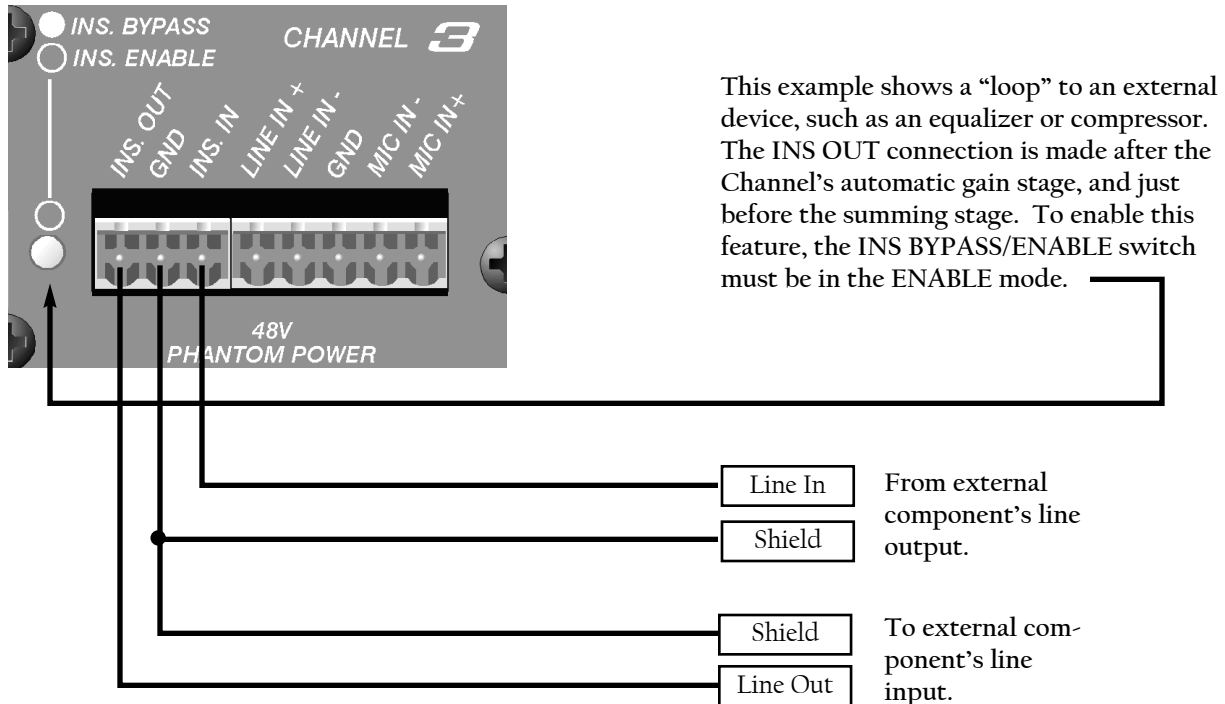


Figure 5. Typical Insert Wiring

In this example, the link switch is in its normal BYPASS mode. The INS OUT connector provides a “tap” of the Channel’s automatically processed output signal just before the summing bus. When configuring the Automix 4 with direct outputs, the master balanced output and the master line output are still active.

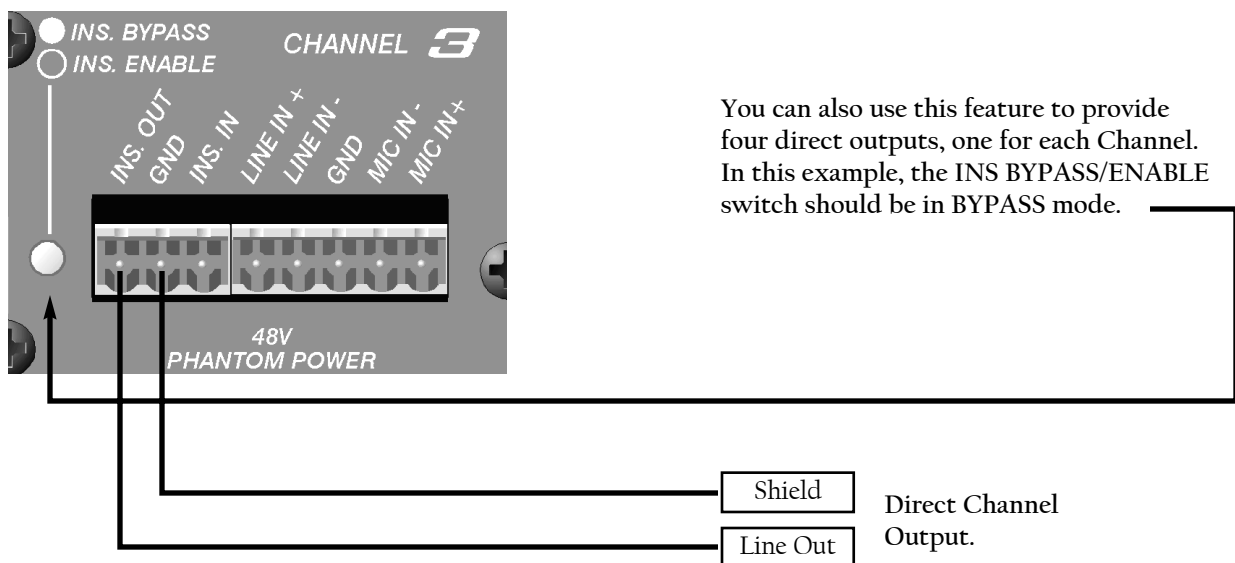


Figure 6. Direct Channel Out Wiring

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## Configuration

Since the Automix 4 is an analog product, there is not a lot of configuration to worry about. No software, no data cables, no networks and no headaches. However, there are a few things to remember while you begin to use your new Automix 4 mixer.

The Automix 4 is shipped from the factory ready to go. You should be able to follow the steps below, and get audio through the unit.

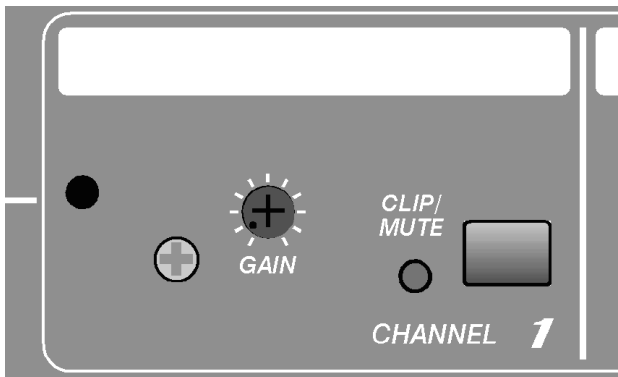


Figure 7. Input Channel Controls. (Typical of Channel 1 and 2. Channels 3 and 4 do not include the Priority Control)

The first step is to calibrate your gain settings for the inputs. Each microphone input has a **Gain Control** and a **Clip LED**. These, in conjunction with the **Master Meter** work together to provide a visual indication of the Channel's gain behavior. To properly adjust the Automix 4 for optimal performance, follow these simple steps for each input Channel:

Connect a microphone to any of the inputs. For proper operation, use only low impedance, balanced, three-wire microphones.

Adjust the Channel **Gain Control** to its minimum position, or fully counterclockwise for the Channel you are working on. It is important to use a properly sized Phillips head screwdriver for this adjustment. Take care not to force the control, or damage may occur.

Apply an audio signal to the input by speaking into a microphone at a nominal level. While monitoring the master **Level Meters**, slowly adjust the **Gain Control** clockwise while audio is present. Keep turning the control until the **Level Meters** are indicating nominal level at the 0dB LED on the meter. In addition, the Channel **Clip LED** should not be red. This LED illuminates red when the signal level is at clipping. Speak loudly into the microphone and watch the action of the **CLIP LED** on the Master Meter and the input Channel. It is OK for these LED's to flash red on occasion. If they stay red however, the **Gain Control** is set too high. Reduce the amount of input gain until the red **Clip LED** flashes only occasionally when high audio levels occur. You will have to use your own judgement to properly determine an acceptable level. If the **Gain Control** is set too low, you will not have enough level at the microphone input, and your noise floor will increase. Follow this procedure for each input to ensure proper gain structure.

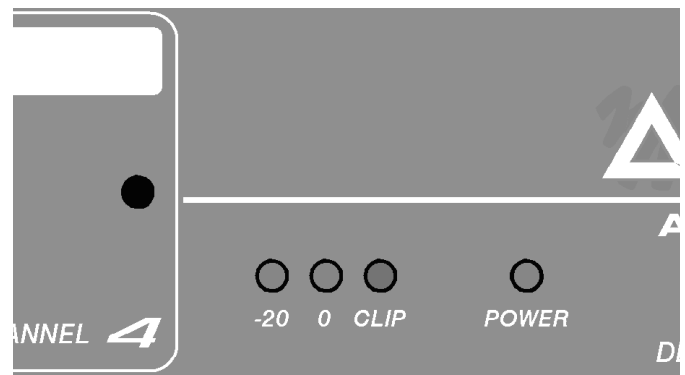


Figure 8. Master Meters

After these adjustments are made, make sure you monitor the front panel LED's and meters during normal use. Take note of the action of the Channel **Clip LED**'s. Under normal operation, you should see lots of green, but it is not unusual to see occasional flashes of red. Constant red, however, indicates that a gain setting is improperly adjusted, and should be reset using the above procedure.

One of the most powerful features of the Automix 4 is the patented priority circuit. Channel 1 and 2 include a **Priority Control** which allows these inputs to take precedence over other Channels. Turning this control clockwise will increase the amount of priority that its respective Channel (1 and/or 2) has over Channels 3 and 4. So... if a Channel's priority control is adjusted more clockwise than the other, that Channel has the highest priority in the system, followed by the other Channel, then Channels 3 and 4. Turning this control fully counterclockwise will disable the priority feature completely. Please note that this control is not an end user adjustment. Setting this control should only be made by a qualified sound engineer or system technician.

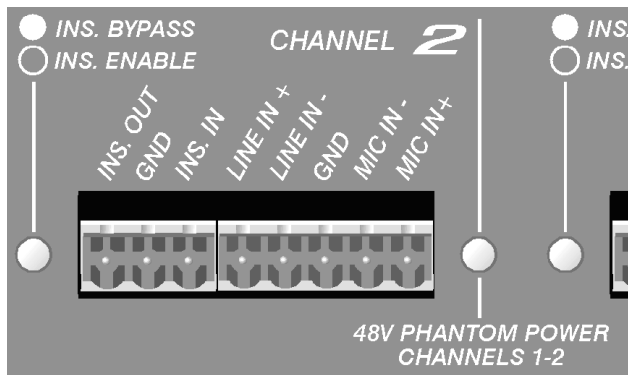


Figure 9. Input Channel Connections and Phantom Power Switch  
NOTE: Phantom power is switchable only on Channels 1 & 2.

The next step is to configure the Automix 4's rear panel switches for your application. Although the unit is shipped from the factory with default switch values, you should make sure that these settings are correct for YOUR application. Let's take a look at each one, and describe their functionality.

First, there are the Channels 1-4 **Insert Bypass/Enable** switches. These switches determine the routing of the input Channel's audio path. In the **Bypass** position, the signal is not altered and is sent from the Channel's output to the master summing bus. This is normal operation. In the **Enable** position, the signal from the Channel is broken. You can tap this signal at the **INS OUT** connector for use with external equipment. (This signal is also available in the **Bypass** position, acting as a direct line output.) When the **Enable** position is used, no audio from the

Channel will be present at the **Master Output** until a return path is configured. (See the Connections section for more information.)

Next is the **Channel 1 & 2 Phantom Power** switch. This switch determines if the Automix 4's internal 48V DC phantom power is applied to the microphone input terminals on input Channel 1 or 2. If you are using condenser microphones, you must insure that this switch is in the **ON** position. Channels 3 & 4 do not have this switch, and the 48VDC phantom power is always applied.

The primary output of the Automix 4 appears at the balanced output labeled **OUT+**, **OUT-** and **GND** terminals. The **MIC/LINE** switch adjacent to the output determines the nominal level of this main output. In the **MIC** position, the main output of the Automix 4 is at mic level, which is suitable for driving other mic level inputs, such as those found on mixers. Additionally, using the output at mic level provides a good signal for driving tape recorders or video equipment. When the switch is in the **LINE** position, the Automix 4 output is at line level, suitable for driving power amplifiers, signal processing equipment, etc. Also, the line level position is normally used for driving long wire runs for use in press distribution feeds and tie-lines to other line level audio equipment.

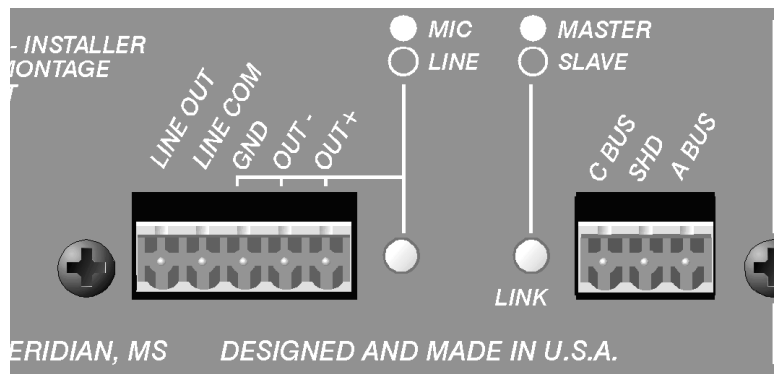


Figure 10. Master Output and Link Connections and Mode Switches

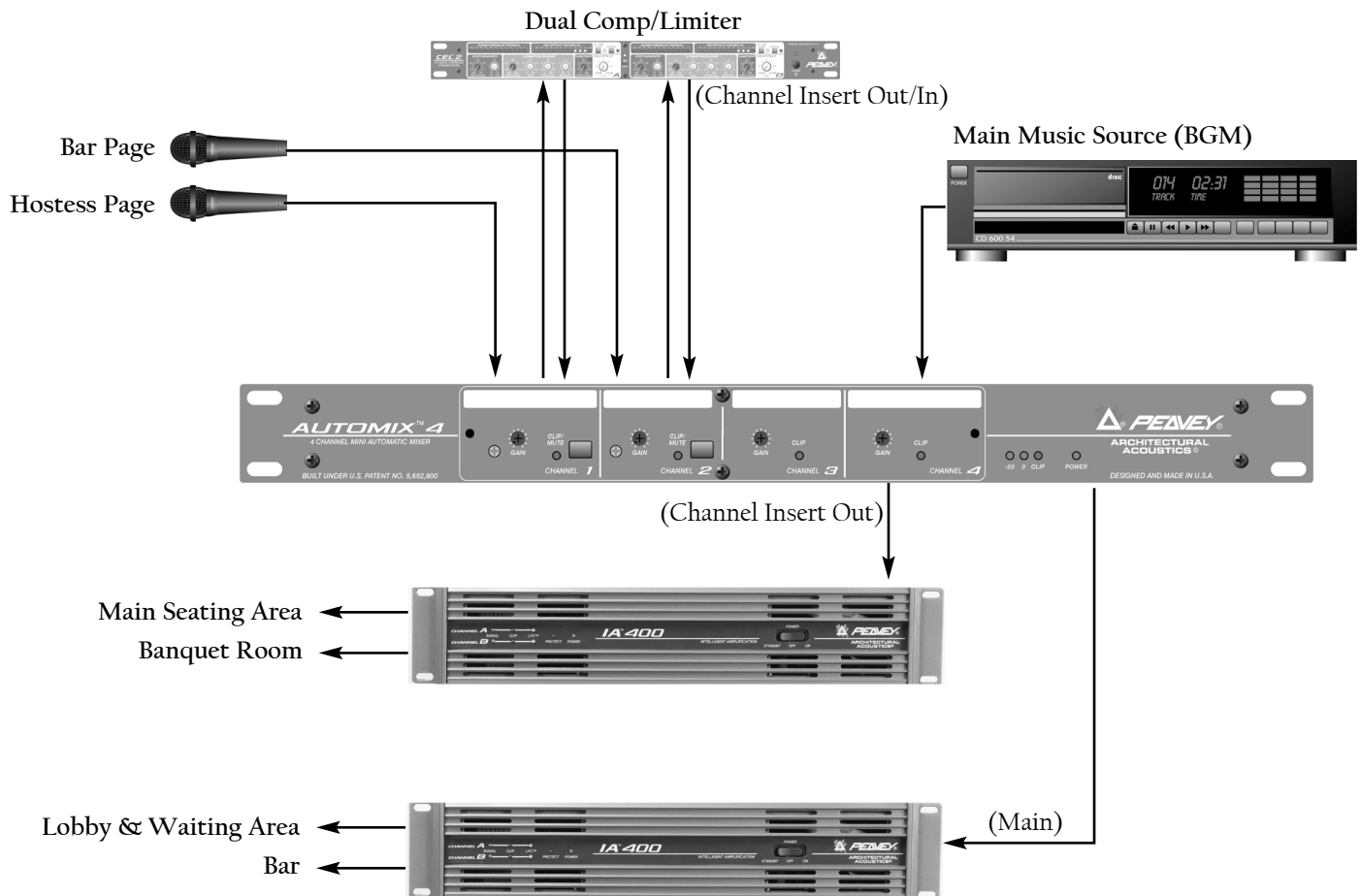
Please take care in the setting of the **MIC/LINE** switch. Proper operation and maximum audio performance cannot be obtained if the level of the main output is not optimized for the equipment to which it is connected. For information on the actual signal levels from this output, please refer to the specifications section in this manual.

NOTE: The **Line Out** terminals are not affected by the position of the **MIC/LINE** switch.

Finally, there is the **Slave/Master** switch. This switch is used in conjunction with the Channel link connector for combining multiple Automix 4 mixers in larger systems. The default position of this switch is **Master**. In the **Slave** position, the Automix 4 will act as an expansion unit to a Master-enabled Automix 4. All linked units will contain a mixed output with all inputs on the bus. (See the connections section for more information on combining multiple Automix 4's.)

## Restaurant

The Automix 4 works very well in restaurant environments, since the gain management functionality provides an easy way to set up microphones, and not have to worry about levels or feedback. In this example, there are two paging microphones and a background music source. The areas where patrons are waiting for a table require voice paging. However, the paging is annoying to the main seating areas where people are eating. This configuration provides separate feeds for both the waiting areas and the main restaurant using the direct output feature. Also, by using a two-Channel compressor/limiter, the dynamics of the paging audio can be controlled keep the level constant and unobtrusive.



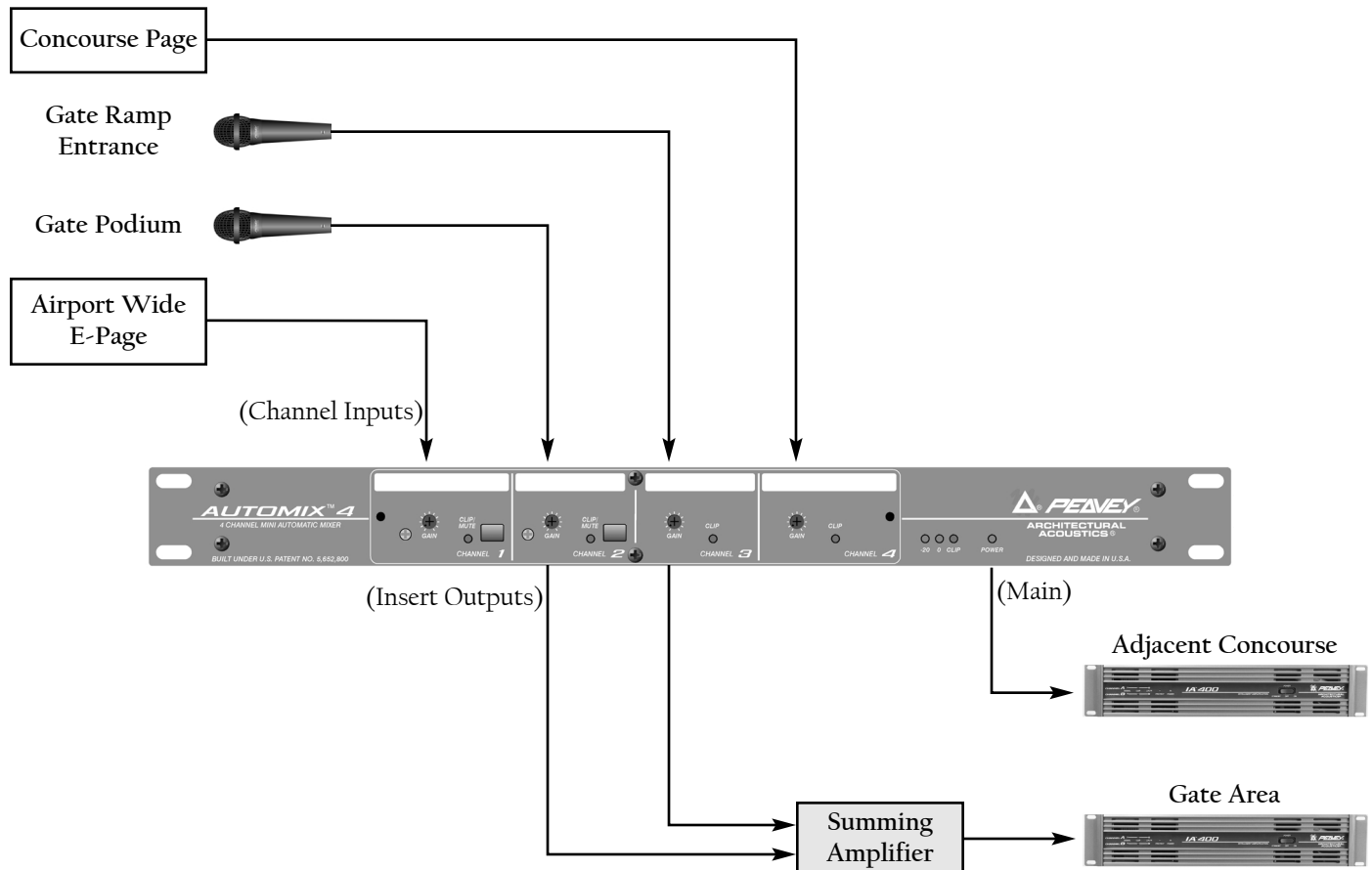
### System Features:

- Overall mix of paging microphones and background music feeds the areas where people are waiting for a table.
- The main seating area has music only, from Channel four's direct output.
- Channels 1 & 2 INSERT feature used for an outboard compressor/limiter.
- Since the microphones use Channels 1 and 2, the manager can easily mute each mic by using the front panel mute button.
- The music source is connected to Channel 4, so adjustment of the volume cannot be easily altered by meddling hands. (There is no mute button on this Channel, and the level control is recessed, and requires a tool to adjust.)
- The Channel 4 INS SWITCH is set for BYPASS, so the CD player's Channel feeds the direct output AND the main output simultaneously.



## Airport Gate Area (Small airport facility)

In an airport gate area, the sound system is often a stand-alone system that has feeds from the concourse system as well as the airport-wide system. In the gate area, several levels of priority exist. Mainly, emergency and critical announcements take priority, followed by local gate activity and concourse pages. This system is typically duplicated at each gate in the concourse. In this example, we show how this works easily with the Automix 4.

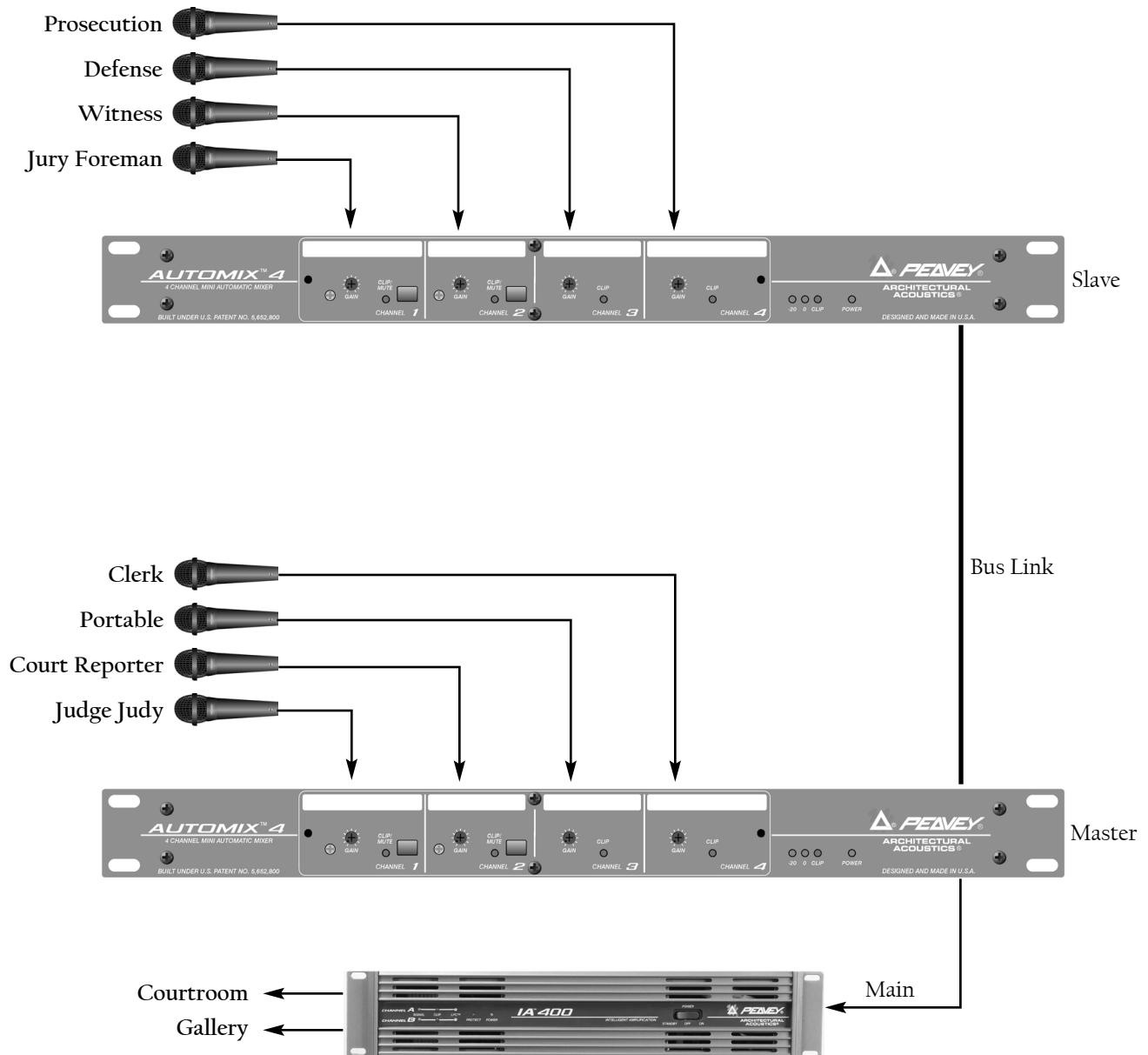


### System Features:

- The Automix 4 provides audio for the gate's adjacent concourse area as well as the seating area for the gate.
- All concourse and airport wide signals feed this zone.
- The Gate Podium and the Airport E-Page have priority over the Ramp and Concourse page.
- Only the Gate page signals (Podium and Ramp) are fed to the gate area via the INS outputs. These signals still have automatic mixing enabled, so if both mics are on at the same time, feedback and gain concerns are eliminated.
- This configuration is simple and reliable. By duplicating this at each gate, and distributing the concourse and airport wide signals across all gates, a very powerful and cost effective airport paging system can be implemented.

## Courtroom

In this example, we need eight microphones for this courtroom project. Using the Automix 4's Bus Link feature, we can easily create a larger automatic mixer. The main output feeds the power amplifiers which drive the reinforcement loudspeakers.

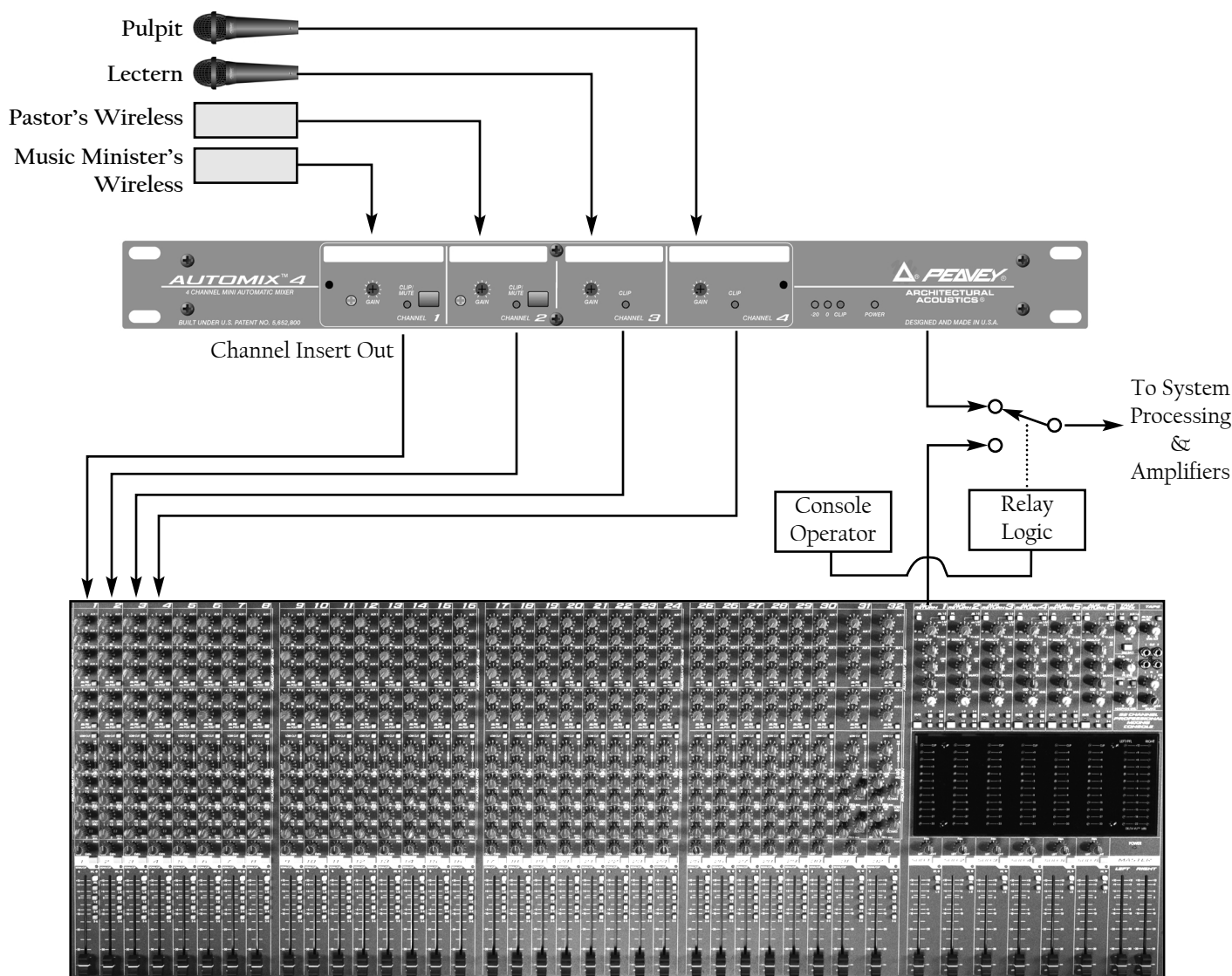


### System Features

- Eight microphone inputs
- The Judge, Court Reporter, Witness and Jury Foreman have priority-enabled Channels, thereby attenuating the other microphones.
- Bus Link feature provides seamless combining of two mixers.

## House of Worship

Frequently, when designing systems for churches or other houses of worship, the sound system must accommodate multiple methods of operation. This example is typical when a large console is employed, yet the system still requires a simple operation method when a console operator is not available, or needed. When the facility is used for meetings, a small wedding or other application that requires only a few microphones, the Automix 4 can be easily implemented using this example. An added feature is the use of the Priority control on the Automix 4's first and second inputs. This feature allows for the fixed microphones to be attenuated by the action of the wireless mic as the talker approaches. This insures maximum performance by reducing or eliminating comb filtering from adjacent microphones.



### System Features

- Four dedicated inputs feed the Automix 4 and simultaneously (via the Insert Out connector) feed the house console.
- The relay logic selects between the Automix 4 and the console. For simple applications the default mode selects the Automix 4, enabling the most common microphones for system use. When the console operator activates console control, the logic routes the console's output to the system processing and amplifiers, bypassing the Automix 4.
- The Priority control provides "ducking" of the fixed microphones so that comb filtering caused by multiple time arrivals is reduced.

## Technical Support

Peavey has an extensive Technical Services Group that provides tech support, repair and implementation services. If you require assistance with your new Automix 4, you can get help from several sources. There are many technical documents, white papers and application notes on our website as well as brochures, data sheets and our newsletter, "Audio Interactive", published monthly. Also on our website are message board forums that include questions and answers on all audio topics. This forum is a great way to learn more about audio, Peavey products and system design from other audio professionals around the world. You can also get help by sending us an e-mail or posting a request on the message board. Finally, if you still cannot get the information you need, don't hesitate to call us. We have extensive phone support services and will be happy to assist you. The contact information for the Architectural Acoustics Division is shown below:

Peavey Electronics Corp.  
Architectural Acoustics Division  
711 "A" St.  
Meridian MS 39301  
USA

Phone: 601-483-5376  
Fax: 601-486-1678

Website: <http://aa.peavey.com>

## Warranty Registration

Please take a few minutes and fill out the warranty registration card for your Automix 4. Although your warranty is valid without the registration, the information you provide with the form is crucial to our support group. It enables us to provide better service and customer support, and to keep you informed of new product updates. Refer to the warranty statement on the back page of this manual for details about what your warranty includes and what the limitations are.

## Specifications

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### MECHANICAL

Dimensions (H x W x D)	1.75" x 19" x 9.38" (45 mm x 483 mm x 238 mm)
Weight	7.5 lbs., 3.4 kg
Mounting	Single EIA Space Rack Mount
Connections	Removable "Euro" Connectors for single Channel audio inputs, outputs and bus link. IEC receptacle for AC power.

### PERFORMANCE

(Test Conditions: 120 Vrms, 60 Hz line voltage maintained throughout testing. Reference: 0 dBu = 0.775 Vrms.)

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#### INPUT SPECIFICATIONS

**Equivalent Input Noise:**  
-128 dBu (Rs = 150 Ohms), typical

**Preamp Gain Range:**  
10 dB -65 dB (MIC inputs)  
-13 dB -44 dB (LINE inputs)

**Input Impedance:**  
2K Ohms (MIC inputs)  
>10K Ohms (LINE inputs)  
>10K Ohms (INSERT inputs)

**Priority (Channels 1 and 2):**  
0 dB to 9 dB

**Phantom Power:**  
+48 Volts

**Input Sensitivity:**  
MIC Inputs -61 dBu  
LINE Inputs -40 dBu  
INSERT Inputs +4 dBu

**Maximum Input Level:**  
MIC Inputs +12 dBu  
LINE Inputs +30 dBu  
INSERT Inputs +21 dBu

**Common Mode Rejection:**  
>70 dB 20 Hz - 20 kHz

#### OUTPUT SPECIFICATIONS

**Frequency Response:**  
75 Hz (-3 dB) to 20 kHz (-1 dB)  
(at +4 dBu; ref: 1 kHz; 75 Hz HPF)

**THD:**  
<0.1% at +4 dBu  
(22 Hz - 22 kHz BPF)

**Signal/Noise:**  
(Rs = 150 ohms; 30 kHz LPF)  
>85 dB (all controls fully CCW)

**Output Impedance:**  
<200 Ohms

**Nominal Output Level:**  
LINE Level Output +4 dBu  
MIC Level Output -26 dBu  
INSERT Outputs +4 dBu

**Maximum Output Level:**  
LINE Level Output +21 dBu (Hi-Z load) +18 dBu (600 load)  
MIC Level Output -9 dBu (Hi-Z load) -12 dBu (600 load)  
INSERT Outputs +21 dBu (Hi-Z load)

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#### GENERAL SPECIFICATIONS

**Channel Clip LED:**  
Red LED lights 2 dB before clipping  
Also lights to indicate mute on Channel 1 and 2 inputs

**Output Level Indicators:**  
Red LED lights 2 dB before clipping.

Yellow LED lights at +4 dBu.  
Green LED lights at -16 dBu.

**Power Requirements:**  
120 V RMS, 60 Hz Domestic  
230 V RMS, 50/60 Hz Export  
15 watts nominal

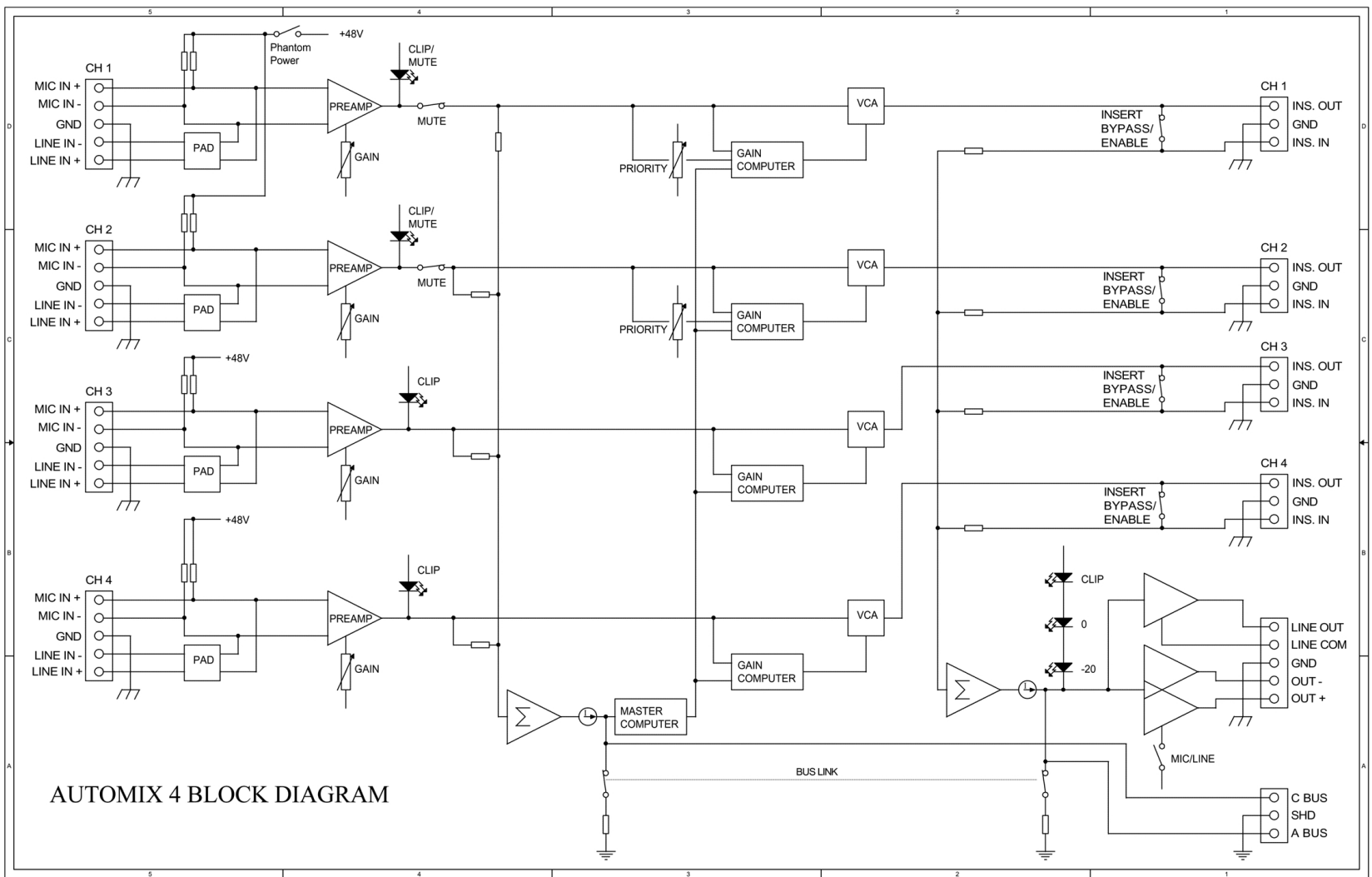


Figure 11. Automix 4 Functional Block Diagram

# Architectural Acoustics®

## PEAVEY ELECTRONICS CORPORATION LIMITED WARRANTY

*Effective Date: July 1, 1998*

### What This Warranty Covers

Your Peavey Warranty covers defects in material and workmanship in Peavey products purchased and serviced in the U.S.A. and Canada.

### What This Warranty Does Not Cover

The Warranty does not cover: (1) damage caused by accident, misuse, abuse, improper installation or operation, rental, product modification or neglect; (2) damage occurring during shipment; (3) damage caused by repair or service performed by persons not authorized by Peavey; (4) products on which the serial number has been altered, defaced or removed; (5) products not purchased from an Authorized Peavey Dealer.

### Who This Warranty Protects

This Warranty protects only the original retail purchaser of the product.

### How Long This Warranty Lasts

The Warranty begins on the date of purchase by the original retail purchaser. The duration of the Warranty is as follows:

**MediaMatrix® DPU, (Excluding Frames), Cinema Processors,  
Power Amplifiers, Pre-Amplifiers, Mixers,  
Electronic Crossovers and Equalizers**

**2 years \*(+ 3 years)**

**Loudspeakers**

**3 years \*(+ 2 years)**

**Microphones**

**2 years**

**Speaker Components (including speakers, baskets, drivers,  
diaphragm replacement kits and passive crossovers)  
and all Accessories**

**90 days**

*[\*denotes additional warranty period applicable if optional Warranty Registration Card is completed and returned to Peavey by original retail purchaser within 90 days of purchase.]*

### What Peavey Will Do

We will repair or replace (at Peavey's discretion) products covered by warranty at no charge for labor or materials. If the product or component must be shipped to Peavey for warranty service, the consumer must pay initial shipping charges. If the repairs are covered by warranty, Peavey will pay the return shipping charges.

### How To Get Warranty Service

(1) Take the defective item and your sales receipt or other proof of date of purchase to your Authorized Peavey Dealer or Authorized Peavey Service Center.

**OR**

(2) Ship the defective item, prepaid, to Peavey Electronics Corporation, International Service Center, 412 Highway 11 & 80 East, Meridian, MS 39301 or Peavey Canada Ltd., 95 Shields Court, Markham, Ontario, Canada L3R 9T5. Include a detailed description of the problem, together with a copy of your sales receipt or other proof of date of purchase as evidence of warranty coverage. Also provide a complete return address.

**OR**

(3) All MediaMatrix® Frames needing repair, should be shipped prepaid to Peavey Electronics Corporation, International Service Center, 412 Highway 11 & 80 East, Meridian, MS 39301

### Limitation of Implied Warranties

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

***Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.***

### Exclusions of Damages

PEAVEY'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AT PEAVEY'S OPTION. IF WE ELECT TO REPLACE THE PRODUCT, THE REPLACEMENT MAY BE A RECONDITIONED UNIT. PEAVEY SHALL NOT BE LIABLE FOR DAMAGES BASED ON INCONVENIENCE, LOSS OF USE, LOST PROFITS, LOST SAVINGS, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE, OR ANY OTHER DAMAGES WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

***Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.***

***This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.***

If you have any questions about this warranty or service received or if you need assistance in locating an Authorized Service Center, please contact the Peavey International Service Center at (601) 483-5365 / Peavey Canada Ltd. at (905) 475-2578.

*Features and specifications subject to change without notice.*



Features and specifications subject to change without notice.

A product of **Peavey Electronics Corporation**

711 A Street / Meridian, MS 39301 / USA / (601) 483-5376 / FAX (601) 486-1678

<http://aa.peavey.com>



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