

# OWNERS MANUAL



## **PLM™ 8128**



**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.**

## INTRODUCTION

Thank you for purchasing the Peavey PLM™ 8128. In working with this manual, we recommend that you have the unit in front of you in order to follow through the examples with the text.

The PLM 8128 is an eight channel, digitally-controlled mixer with advanced preset storage and recall facilities, as well as MIDI compatibility and many other advanced mixing functions. This state-of-the-art mixer is fully menu-driven and lends itself to many diversified uses. The PLM 8128 delivers:

- An eight channel, digitally-controlled mixer using the newest in computer technology and advanced surface-mount design for clean mixing

- Complete programmable control of the input sensitivity, pan, monitor send-level, and all three effects send-levels for each channel

- 16K bytes of internal ram for storage of 128 separate presets

- Capability to store your presets on a computer through MIDI

- Stereo headphone jack for private listening to the mixer output or monitoring of any individual channel

- Two channels with balanced XLR input capability

- Signal level-matching switches for each individual channel for matching the channel-sensitivity to input source (-20 dBV and +4 dBV)

- Advanced programmable crossfade times

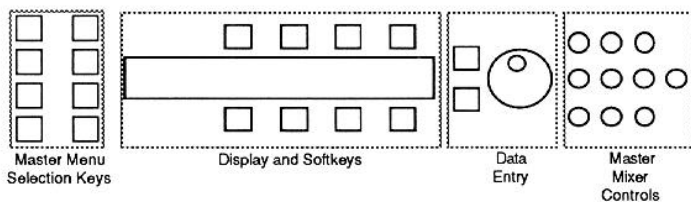
- Expandability up to 32 channels

- Ability to rename your channels and effects from the front panel. (There is no need to write on this mixer to remember on which channel is your sequencer.)

- The most advanced MIDI controls allow the mixer to be controlled from a computer, keyboard, or sequencer.

## MIXER SETUP

The PLM operates on a series of software based "pages" designed for ease of use of its many advanced functions. The front panel of the mixer can be broken down into four functional areas, as shown below.



**Master Menu Selection Keys-** The keys in this section are used to choose between the major PLM functions.

### Display and Soft Keys

The LCD display shows the current mixer functions, and the soft keys are used to choose sub-menus and to select on-screen parameters to be edited.

**Data Entry-** Here data is entered via the +/yes and -/no keys and the data entry wheel.

**Master Mixing Controls-** These are normal analog mixer-type controls (used to control the master mixer functions).

## THE REAR PANEL

The rear panel of the mixer is set up in the same manner as an analog mixer except for the added MIDI ports and control interface. MIDI In and Out ports are provided. The control port is used to connect expander modules to the master mixer.

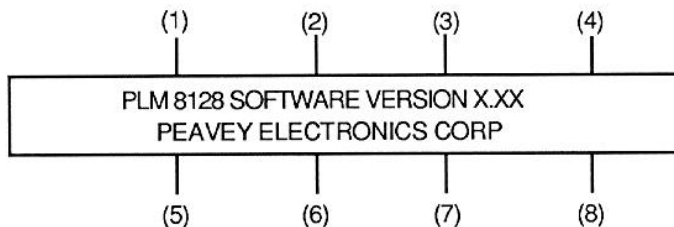
## COMMUNICATING WITH THE PLM™ 8128

The PLM operates in display pages. Within a page, functions can be selected and edited using the softkeys above and below the display—the data entry wheel for large adjustments, and the +/yes and -/no keys to the right of the display for fine tuning. The eight buttons to the left of the display are used to select master pages and special functions.

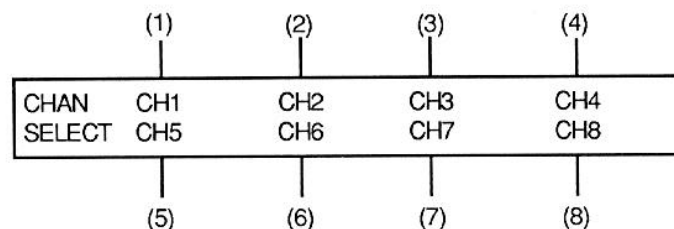
Before going further in this manual, it is recommended that the reader familiarize himself with the PLM™ 8128. A step-by-step example of the basic operation of the PLM 8128 is given below. Examples like this one are given throughout this text.

## EXAMPLE OF THE BASIC OPERATION OF THE PLM™ 8128

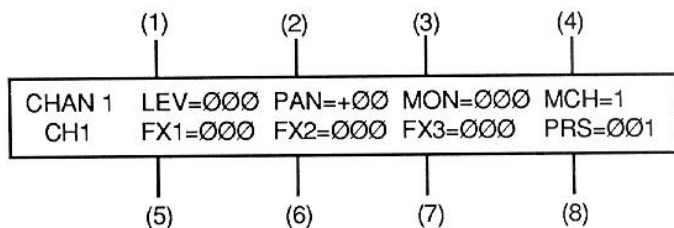
First, an instrument is needed to play through the PLM™ 8128. Connect the instrument to the mixer's channel 1 input and an amplifier to one output. When the mixer is turned on, you will see a title page which looks something like this.



To look at the parameters for channel one, press the channel button in the select section of the front panel. The screen will display



To select channel 1, press the softkey above CH 1. You should now see



This display indicates several things. LEV is the volume level. It can range from 0 to 100. PAN is the left/right pan of the channel. It can range from -63 (far left) to +63 (far right). MON is the monitor-send level. It can also range from 0 to 100. MCH is the MIDI channel number on which this mixer channel is listening. PRS is the number of the current preset.

Press the softkey above LEV. The '=' should now be flashing, indicating that this is your currently active parameter. Now, rotate the Alpha Wheel clockwise to adjust the level of your instrument. You should now be able to play your instrument through the mixer. Notice the '.' that appeared to the left of LEV. This period indicates that the level value has been changed since this preset was loaded. Similar indicators appear on other pages.

Try pressing a few other buttons and watch the display. Notice that for each select button you press, the display changes to show you information related to that function. These different displays are called pages.

## ENTERING PLM™ 8128 PRESETS

The method used to modify presets on the PLM is often referred to as page-driven parametric programming. This may sound difficult, but once you've grasped a few basic concepts, you'll find programming the enormously powerful PLM™ 8128 is actually quite simple.

## PARAMETRIC PROGRAMMING

With parametric programming there is only one master, data-entry controller (the Alpha wheel) and two data-entry buttons which adjust the value of the parameter you select. This greatly

reduces the amount of hardware (knobs, sliders, etc.) needed to control the PLM's functions, which allows the PLM to fit in only two rack spaces.

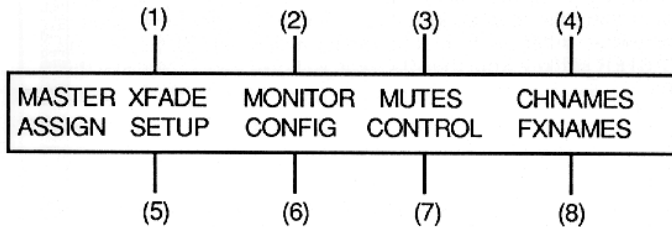
The PLM's 80-character LCD display allows the PLM to display data in pages of related parameters. Each PLM function has an associated page which shows you all of the currently editable functions and even sub-pages, which may be reached from the current page. To select a parameter, press the softkey directly above or below it on the display.

**SOFTKEYS**

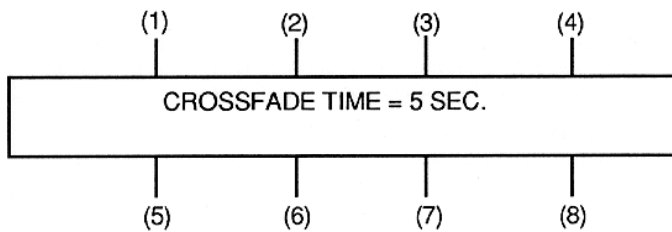
The eight buttons above and below the display each have a different function depending upon which page is being displayed. There, "soft" buttons are distinguished from the "hard" buttons in that they do not have a fixed function, but their function is dependent upon the page currently in use. Note that not all soft buttons are active on all pages. Only those buttons related to a selectable parameter will be active on the current page.

**CHANGING A PARAMETER**

Suppose you wanted to re-assign the master crossfade time. Press the select button labeled **ASSIGN** (this is one of the eight select buttons found to the left of the Display Window). The display now shows a set of pages available to change different configuration parameters.



To change the crossfade time, the crossfade time page must now be selected by pressing the softkey above **XFADE**. The display will now look like this:



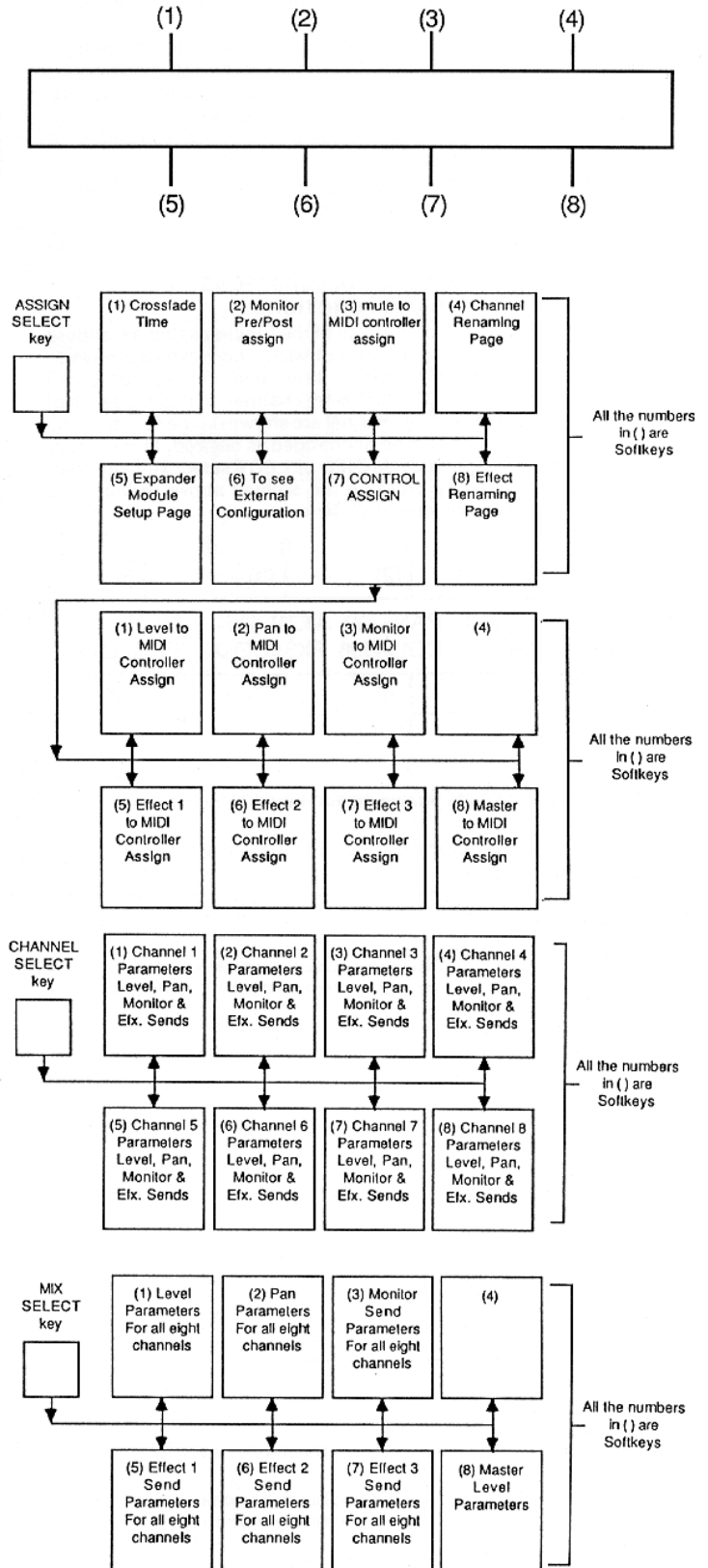
Rotating the alpha wheel or pressing the + or - keys now will change the crossfade time.

**EXECUTION BUFFER**

You can edit a preset while keeping the original preset intact because the active preset is kept in a special area of memory called the Execution Buffer. Whenever you change any parameter, it is changed in the Execution Buffer. When any parameter is changed, a dot appears to the left of that parameter to show that it has been edited. If a new preset is selected, it will be read into the Execution Buffer over the current preset.

**PAGE SETUP DIAGRAM**

Below is the page diagram for the PLM™ 8128. Buttons with labels on them are shown along each vertex of the path to show what buttons have to be pressed to get there. Words in capital letters are not final pages, but selection pages that lead to other pages. Buttons with numbers inside them correspond to the softkeys as shown below.



**MIDI SELECT** key accesses a page of softkeys controlling: MIDI parameters - MIDI channel, omni, poly and sys ex send/receive

**STORE SELECT** key accesses a page of softkeys controlling: Store preset in the Execution Buffer into a preset number

**RECALL SELECT** key accesses a page of softkeys controlling: Recall preset number into the Execution Buffer

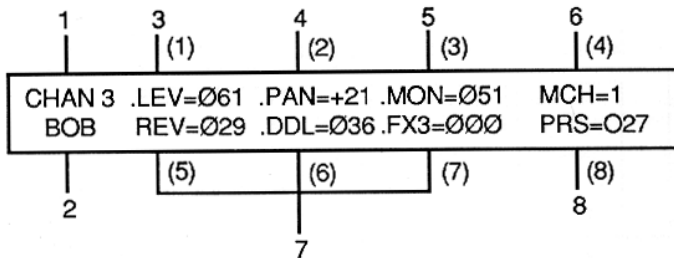
**SOLO SELECT** key accesses a page of softkeys controlling: Solo output channel select

**MUTE SELECT** key accesses a page of softkeys controlling: Master mute selects for all eight channels

## FUNCTIONAL DESCRIPTIONS

### BASIC FUNCTIONS

Your PLM™ 8128 will perform all of the functions that a standard analog mixer will, but in a different way. There are two ways to control the basic mixer functions (level, pan, monitor-send, and the effect-send levels). The first is by channel. In this mode, all of the individual controls for a channel are shown on the screen at the same time and may be viewed or changed as desired. This mode is entered by pressing the CHANNEL SELECT select key and then selecting a channel by pressing the softkey above or below its name. The display will look like this:



**NOTE:** Softkeys are shown as numbered brackets.

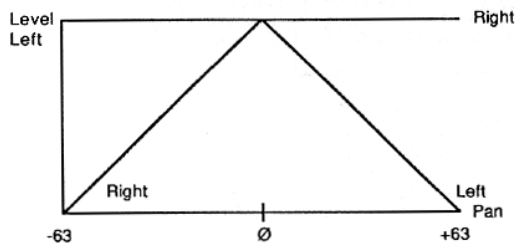
This display has several features. Each parameter is explained in detail below.

1. This area tells what mixer channel is currently being viewed. The channel # corresponds to the input ports on the rear panel of the mixer.

2. This is a three-character, user-assignable name for the channel. This helps you to remember on which channel everything is.

3. This is the channel output level. It ranges from 0 (off) to 100 (max. volume). It affects not only the output level, but the monitor and effects-send levels, too.

4. This is the left/right pan for the mixer. It ranges from -63 (full left) to +63 (full right). The pan envelope is shown below:



5. The monitor send level. It, like the master level, ranges from 0 to 100.

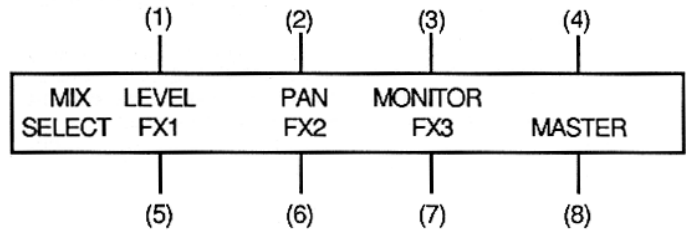
6. The MIDI channel on which this mixer channel is listening. This parameter may only be changed here when the mixer's MIDI mode is set to MONO.

7. The three effects send levels. These also range from 0 to 100. Notice that the effects may be assigned to any three character name desired.

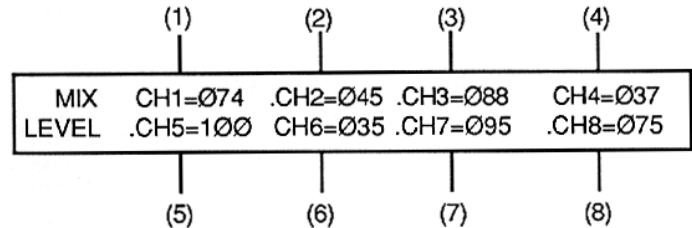
8. The preset number from which this channel was recalled.

The second method of controlling the basic mixer functions is by function. With this option, the value of one function is displayed for all eight channels, and only this single parameter may be changed. This mode is entered by pressing the mix key and then pressing the

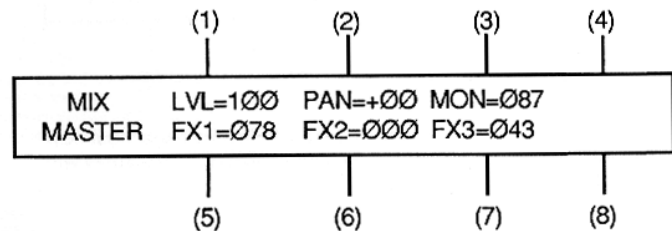
softkey corresponding to the parameter you want to view or edit. The mix parameter page will look something like the one below:



When a parameter is chosen, the display will show the parameter levels for each channel. In this case the LEVEL Softkey has been pressed, so selecting the LEVEL parameters:



Notice that the individual channels are shown by the three letter name that has been assigned to them. The master mix page is somewhat different from the other mix pages. Selecting the MASTER softkey from the MIX page will give you a page like this one:

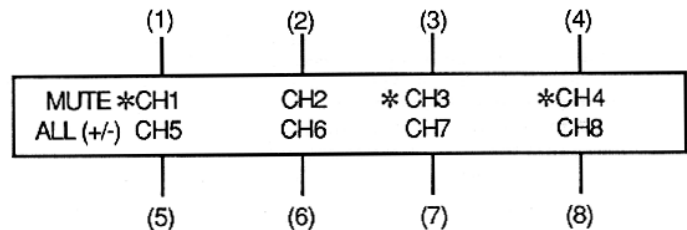


These are the master parameters and work in the same fashion as a conventional analog mixer might; i.e., if the master level is brought down, all of the output levels are affected.

An alternative method of controlling these levels is through MIDI. This method is described in detail in the MIDI sections of this manual.

### MUTING CHANNELS

The PLM™ 8128 allows a channel to be muted at the touch of a button. Simply press the mute select key. A page like this one will be displayed.

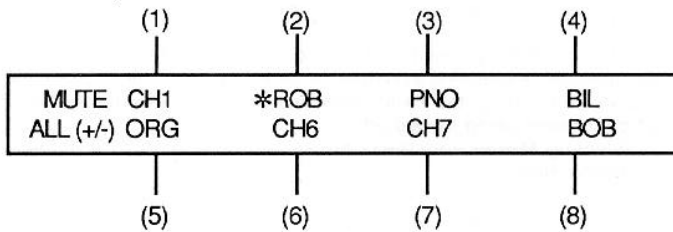


Channels with asterisks to the left of them are muted. To mute or unmute a channel, simply hit the softkey which corresponds to that channel. To mute all eight channels, press the +/yes key; to unmute them all, press the -/no key.

### SOLOING THE CHANNELS

You may use the headphone outputs in one of two ways. You may either listen to the actual mixer output or just a single channel. To select the headphone output mode, press the solo select key. You will see something like this:

(In this example we have replaced some of the channel symbols with names. See "Assigning Names to Channels and Effects" section)



An asterisk indicates that the channel is "soloed". To select another channel, just hit the softkey associated with that channel. To turn the solo off, either hit the softkey associated with the currently soloed channel or press the + and - buttons together.

### ASSIGN FUNCTIONS

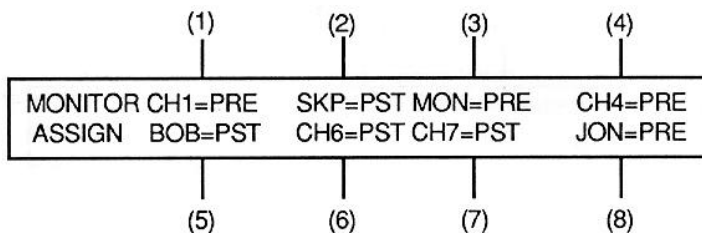
The assign functions are all master functions which are not preset-dependent. They affect the configuration and operation of the entire unit.

### CROSSFADE TIME

The crossfade time is the master preset-recall transition time. It is variable from 0 (no crossfade) to 15 seconds. It has several important functional applications. A short fade time of one to two seconds may also be used to ease the transition between presets. A larger fade time may be used to fade between presets. It may also be used to fade certain instruments out for a while or to fade everyone out at the end of a song. It may also be used for special effects. For example, one preset may be created in which a keyboard is panned all the way over to one side and another preset in which it is panned all the way to the other. Then, when the new preset is called up, it will sound like the keyboard is moving without the pan having to be manually adjusted. Whenever a new preset is recalled, it is faded in using this crossfade time.

### MONITOR PRE/POST ASSIGNMENT

The monitor-send may be assigned to pre- or post-level sends. To select the monitor-send, hit the monitor or soft key on the assign page. You should see this screen:

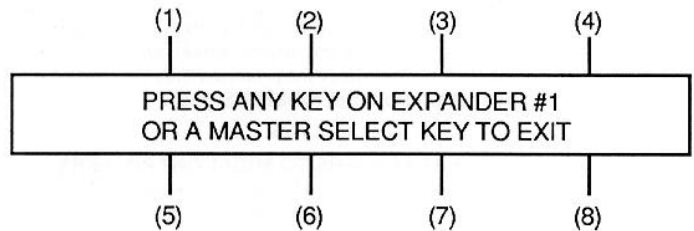


The monitor assignments may be changed by selecting a parameter by depressing a softkey and then hitting either + or - to change the setting. Pressing the + and - keys at the same time sets all channels to pre-level send.

### SETTING UP EXPANDER MODULES

A unique feature of the PLM™ 8128 is the built-in provision for expansion through the use of PLM 8128E expander units. Each PLM 8128E provides eight additional channels controlled by the master PLM 8128. Up to five expanders may be connected to provide a total of 32 automated mixer channels.

To use an expander module for the first time, you must assign it an expander number. This is done via the setup page. To enter the setup page, hit the SETUP softkey from the assign page. the screen will look like this one:



To assign expanders, just hit a front panel button on each expander. The number on the masters display should increment each time you hit a key on an expander module. This assigns channel numbers to the expander modules. When all expanders have been assigned, normal operation may be continued by hitting any master select key.

**NOTE:** The channel names will revert to the expander's new channel names when it is reassigned. If a new expander is to be added, and you don't want to reconfigure all of the expanders, disconnect all but the new expander and configure it by pressing a button on the front panel of the expander until its number is different than that of any other expander. The system may then be reconnected and normal operation resumed. Once an expander has been configured, it never has to be set up again. This does NOT have to be done everytime the PLM 8128 is turned on.

### EXPANDER CONFIGURATION PAGE

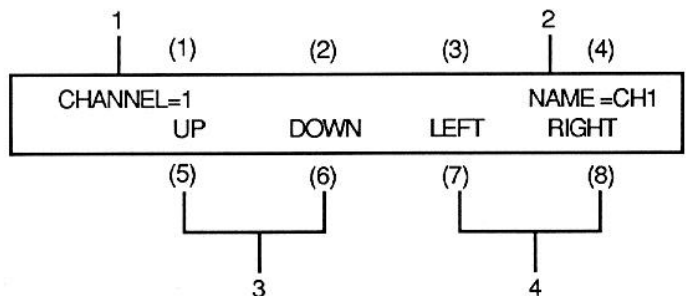
This page simply tells you what expander channels are currently externally available. This may be done by simply pressing the **Config** softkey from the assign page. If no expander channels are assigned, an appropriate message will be displayed.

**NOTE:** If an additional expander is added, the change will not be reflected until this page is called up again. Also, initially it may take the PLM 8128 up to ten seconds to realize that a new expander module has been added.

**WARNING:** An expander which has not been properly configured will NOT be correctly recognized by the PLM, and the PLM may behave abnormally until it is properly configured.

### ASSIGNING NAMES TO CHANNELS AND EFFECTS

The eight PLM™ 8128 channels and three effect loops are originally referred to by the PLM 8128 as CH 1-CH 8, and FX 1-FX 3. For ease of use, these channel and effect names may be reassigned to any three character names. This way, you don't have to remember that your drums are on channel three and the reverb is on effect-loop 2. Just change the channel 3 name from CH 3 to DRM and the effect-loop 2 name from FX 2 to REV. To do this, simply select CHNAMES or FXNAMES from the assign page to change channel or effect names respectively. You should see a display something like this one:



The parameters for this page are as follows:

1. This tells for what actual mixer channel you are editing the name.
2. This section shows what the name for this channel currently is.
3. These softkeys are used to select the channel you wish to rename.
4. These softkeys move the blinking cursor, which indicates the character currently being edited, left or right.

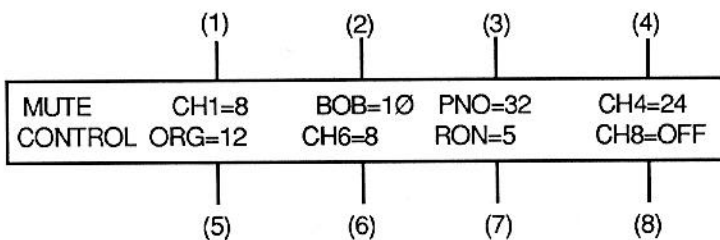
To change the name for a channel, first select the channel number with the up and down keys. Then, the channel name may be changed by using the left and right softkeys to select the character to be changed and the Alpha wheel and +/- keys to change that character. The effect loop names may be changed in much the same fashion from the FXNAMES page.

#### ASSIGNING PARAMETERS TO MIDI CONTROLLERS

Thirty-two (32) separate PLM™ 8128 functions may be assigned to MIDI switches or continuous controllers. In this configuration, the PLM 8128 will respond to MIDI controller information just as if it had been entered from the front panel. More than one mixer control may be assigned to the same MIDI continuous controller, which has the effect of "tying" several controllers together. This option could be used to control several levels at once from your keyboard, sequencer, or other MIDI controller. Master level controllers may also be assigned.

#### ASSIGNING MIDI SWITCHES TO MUTES

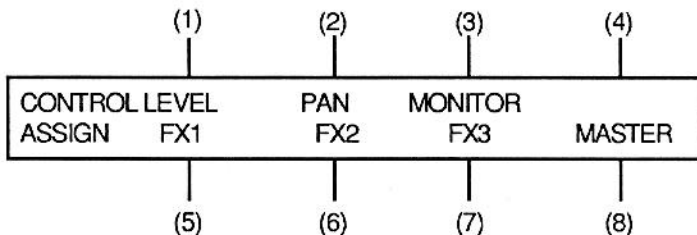
The thirty-two (32) MIDI controllers numbered 64 to 95 are defined in the MIDI specifications as MIDI on/off switches. Any of these thirty-two (32) switches may be defined in the PLM 8128 to be mute on/off switches which act in the same manner as the PLM's mute page-mute switches. Assigning MIDI switches to the mutes is accomplished by choosing the **Mutes** page from the assign-select page. The mute page will look like this:



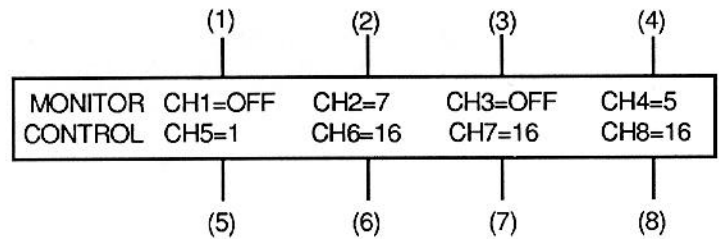
To assign a MIDI switch to a channels-mute, simply select the channel to be controlled by softkey and change the controller number with the data entry wheel. Hitting + and - together from this page turns OFF all MIDI mute switch assignments.

#### ASSIGNING MIDI CONTINUOUS CONTROLLERS TO PARAMETERS

MIDI provides thirty-two (32) user-definable controllers which the PLM allows to be assigned to the level, pan, monitor-send level, or effects-send levels for any channel. It also supports master controls for each of these parameters. Assignment of MIDI continuous-controllers to these parameters is accomplished by selecting the control page from the assign-select page. Here you will be given several options as to what parameters you would like to assign controllers:

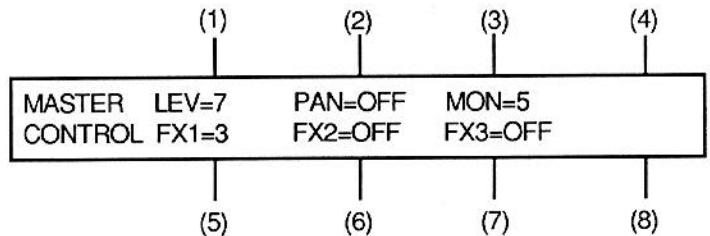


Using one of the softkeys to select level, pan, monitor, or one of the effects will take you to a page that looks like this:



Here controllers can be assigned to the different channels' parameters by selecting a channel by its softkey and using the data entry wheel. Again, the + and - keys pressed together will result in all controllers being turned off.

Selecting **Master** from the control-assign display results in the following page:



Here master controllers may be assigned to the level, pan, monitor, and effects-send parameters.

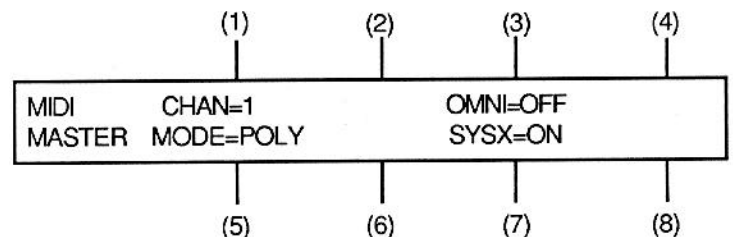
**NOTE: If the mixer ever seems to be working incorrectly, it may be that a MIDI master controller is turned down. The master controller levels should be checked from the mix page and turned up if this seems to be a problem.**

#### STORING AND RECALLING PRESETS

Your PLM 8128 allows for storage of 128 separate mixer settings, or presets. Storing and recalling these presets when MIDI mode = poly is very straightforward. Just hit the store or recall select key, select the preset you would like to store the execution buffer into, or recall into the execution buffer, and hit the YES softkey. Storing and recalling presets in the MONO MIDI mode is covered in the MIDI section of this manual.

#### MIDI FUNCTIONS

The mixers' MIDI parameters may be accessed by hitting the MIDI select key. A page like the following will be shown:



**Chan** is the MIDI channel the mixer will receive on while in the **Omni Off/Poly** mode. If **Omni** mode is enabled, then the mixer will accept MIDI commands on any channel if it is in the POLY mode. If the mixer is in **Mono** mode, the individual mixer channels have their own MIDI listening channels which may be assigned in the channel pages.

The **SYSX On/Off** controls the enabling of the PLM 8128 sending and receiving MIDI system-exclusive commands. With **SYSX** enabled, the PLM 8128 will send out a system-exclusive message each time a button is pressed or the data entry wheel is turned.

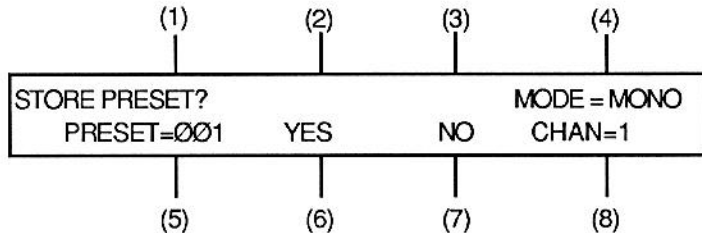
#### OPERATING THE MIXER IN MONO MODE

Operating the PLM™ 8128 in the **MONO MIDI** mode is much more complicated than in the **Poly** mode but greatly increases the MIDI capabilities of the mixer. Several of the pages work differently when in MONO mode.

In **Poly** mode, only the 32 MIDI continuous controllers on the mixers', MIDI-listening channel are available to control the 54 possible controllers on each unit. In **Mono** mode, different mixer channels may be assigned to listen on different MIDI channels. This allows for 512 (16 MIDI channels 32 controllers/MIDI channel) separate controllers to control the 324 parameters possible with a master PLM and 5 expander modules.

#### STORING PRESETS IN MONO MODE

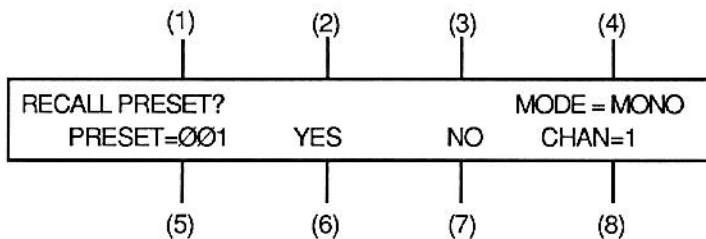
When you hit the **Store** button while in **Mono** mode, you will see this display:



Notice that each channel works independently with the mixer in **MONO** mode. If the yes softkey is pressed, only the channel shown will be stored into the preset shown. If you want all of the channels to be stored into the same preset, you must store each channel individually into that preset. To select the channel to store and choose which preset to store it in, select those parameters with the softkeys and use the data entry wheel to change them.

#### RECALLING PRESETS IN MONO MODE

The recall function also works differently in **Mono** mode. Hitting the recall button will give you a page like this one:



This recall page only recalls one channel of a preset at a time. This means that you could recall different channels from different presets. To recall a channel, hit the channel softkey and set the channel to recall, then hit the preset softkey and set the preset from where you want to recall the channel. When you hit the **Yes** softkey, that channel will be called into the execution buffer.

#### MIDI SPECS

The PLM™ 8128 responds to program preset commands, MIDI controller information, and MIDI system exclusive commands. Program preset and controller commands are only accepted if the PLM is listening on the correct MIDI channel. If the mixer is in **Omni On/Poly** mode, then all commands, regardless of their channel number, will be acknowledged. If the mixer is in **Mono** mode, then the incoming commands will only be accepted by the mixer channels listening on the correct MIDI channel number. System-exclusive messages do not have MIDI channels but may be disabled by selecting **SYSEX = Off** from the MIDI page.

#### PROGRAM PRESET COMMANDS

Program preset commands serve to recall presets on the PLM™ 8128. If the mixer is in **Poly** mode, then a preset will be recalled if the preset command was sent on the correct channel number or the mixer is in **Omni = On** mode. If the PLM 8128 is operating in **Mono** mode, then only the channels of the preset which are listening on the correct MIDI channel will be recalled. Recalling a preset on the PLM 8128 will cause a program-preset command to be sent out the PLM's MIDI port.

#### MIDI CONTROLLERS

MIDI provides 32 switches (controllers 64 - 95) which may be assigned to MIDI mutes on the PLM™ 8128. It also allows for 32 general purpose controllers which may be assigned to one of the PLM's 54 programmable controls (a control for each channel for each of the level, pan, monitor-send level, and the three effect-send levels, as well as master controllers for each of these functions). Controller information will be responded to if that controller is assigned and it is on the correct MIDI channel or the mixer is in **MONO** mode. Whenever a value which is assigned to a controller is changed from the front panel, the controller information is sent out of the MIDI port.

#### MIDI SYSTEM EXCLUSIVE COMMANDS

With the MIDI **SYSEX = On** enabled, the PLM allows for several system exclusive commands. These commands include memory load/dump commands and key-pressed message commands. Whenever a key is pressed, a system-exclusive message is sent. The system-exclusive command format used is

FO 00 00 1B On "data" CSUM F7

Where 'n' is sysex command, as per the list below:

- 0=Load a master preset
- 1=Dump a master preset
- 2=Load all master presets
- 3=Dump all master presets
- 4=Load one channel of a preset
- 5=Dump one channel of a preset
- 6=Load master and slave presets
- 7=Dump all master and slave presets
- 8=Load all of one slaves presets
- 9=Dump all of one slaves presets
- A=Load the execution buffer
- B=Dump the execution buffer
- C=Push a button. Data=the button #, as follows:

#### MASTER BUTTONS

- 00-07=Softkeys 1-8
- 08=Assign
- 09=Channel
- 0A=Mix
- 0B=MIDI
- 0C=Store
- 0D=Recall
- 0E=Solo
- 0F=Mute
- 10=Plus
- 11=Minus
- 12=Plus and Minus

#### EXPANDER BUTTONS

- 01xxxnnn
- Where xxx=expander #(0-4)
- nnn=keycode
- 000=Assign
- 001=Chan
- 010=Mix
- 011=Solo
- 100=Mute

The data is sent in nibbles, MSN (MIDI SYSEX Number) first, and the check sum is the modulo 128 checksum for the data. If a checksum error occurs, then somewhere some information was lost. When a preset is dumped, the following format is used:

- Preset number
- Level CH1
- Pan CH1
- Monitor send CH1
- Effect 1 send CH1
- Effect 2 send CH1
- Effect 3 send CH1
- Mono preset number CH1
- Level CH8
- Pan CH8
- Monitor send CH8
- Effect 1 send CH8
- Effect 2 send CH8
- Effect 3 send CH8
- Mono preset number CH8

When all presets are dumped, the data is sent out as channel 1 data for all presets, channel 2 data for all presets, ..., channel 8 data for all presets.

## ABOUT EXPANDER MODULES

The eight channel PLM™ 8128 master allows for expansion to 32 channels by adding PLM™ 8128E Expander modules consisting of eight channels each. Each Expander has all the capabilities of the master PLM but requires only one rack height and has no display, softkeys, or Alpha wheel. Pages on Expanders may be accessed by hitting a select key on that Expander. The page will be displayed on the Master's display, and the softkeys and Alpha wheel on the Master can be used to edit the Expanders settings.

## SETTING UP EXPANDERS

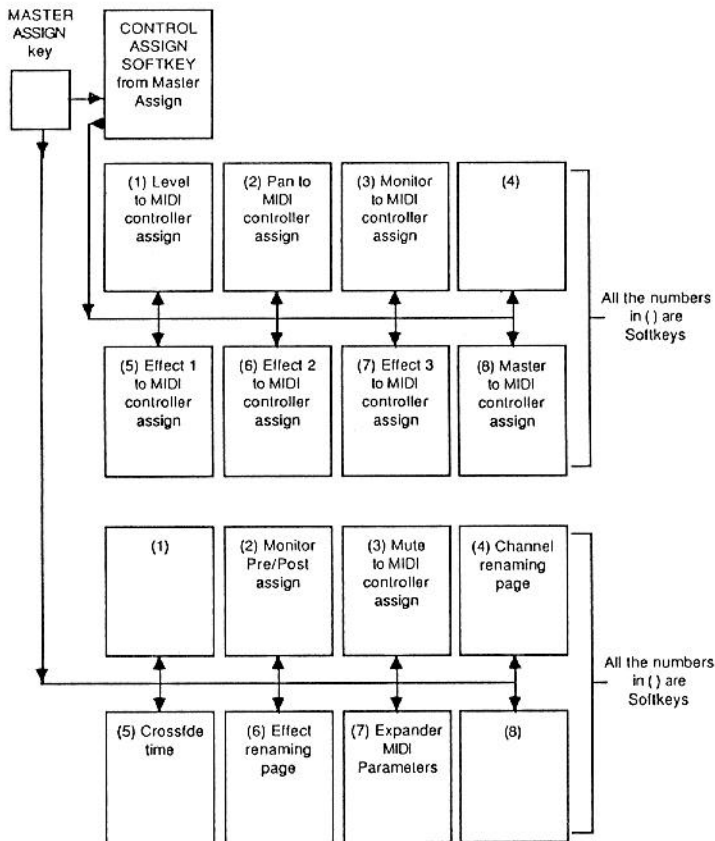
Before using an Expander, it must have an Expander module number assigned to it. This is done as per the "Setting Up Expander Modules" section of this manual. Setting up an Expander tells it what channels it is to control. See the table below for expanders' control channels:

Expander #	Channels
1	9-16
2	17-14
3	25-32

## USING AN EXPANDER

Once an Expander has been set up, its functions may be accessed by hitting a select key on that Expander. Its page will be displayed on the Master display of the PLM™, and the Master's softkeys and the Alpha wheel may be used to change parameters on that Expander. To transfer control to another Expander or back to the Master, simply hit a select key on that unit. The Expander's page setup diagram is shown below:

## EXPANDER PAGE SETUP DIAGRAM



(Solo)

—Solo output select for the Expander

(Mute)

—Expander mute selects for its eight channels

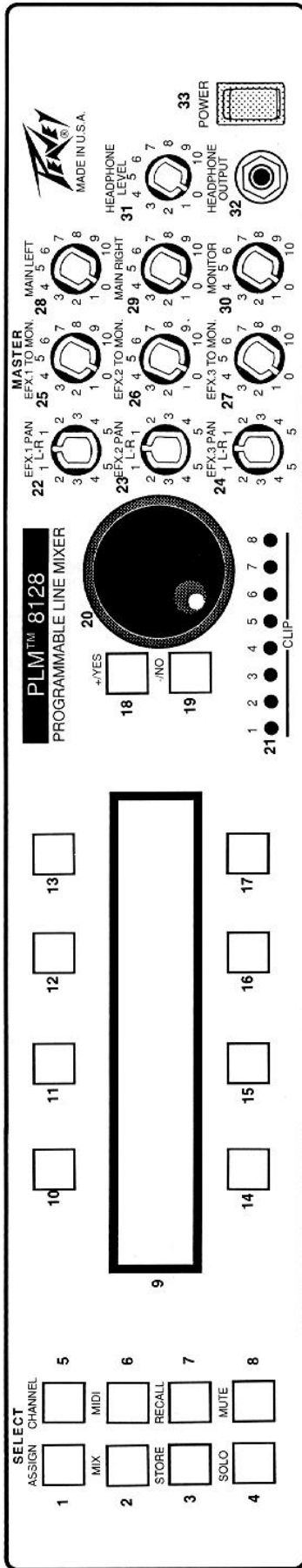
Each of these Expander pages has a Master page counterpart and works in a similar manner to that page.

## HARD RESET

On occasion, you may wish to restore the parameters of the PLM to the original factory set-up. To do this simply turn the power off using the front panel power switch, then while holding in softkeys 7 and 8, turn the power back on. All parameters will then be back to the factory settings.

**CAUTION: Use the above procedure only if you are certain that you wish to lose all the changes that you have made. Please be sure to make a note of any changes that you may wish to restore after performing this hard reset procedure. Your data is preserved when turning the unit on and off in normal usage, as a small internal battery keeps the memory settings intact. Only a deliberate hard reset procedure will cause your data to be erased.**

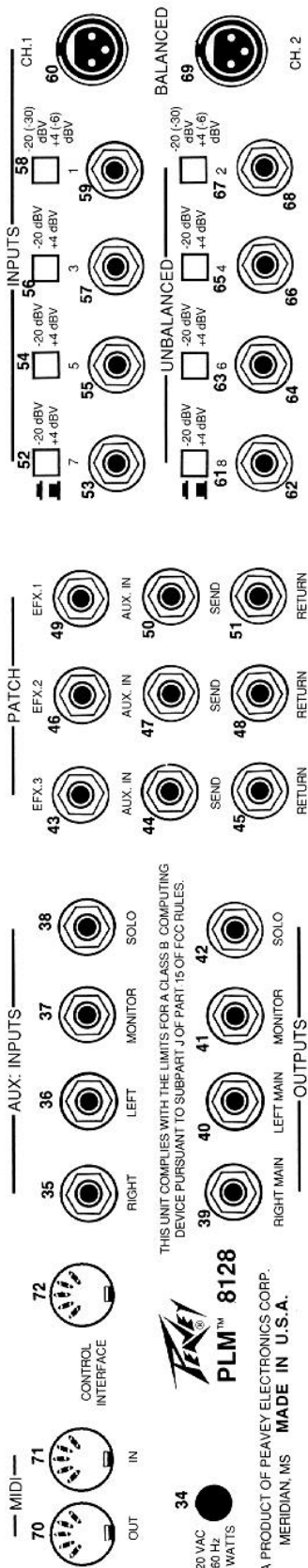




**FRONT PANEL**

- 1-8) Main select keys
- 9) Display window
- 10-17) Softkeys
- 18-19) Yes (+) and No (-) keys
- 20) Alpha dial
- 21) Channels 1 to 8 clip indicators. When an indicator flashes the input has 6 dB of headroom left before clipping begins to take place.
- 22) Effect #1 L/R pan
- 23) Effect #2 L/R pan
- 24) Effect #3 L/R pan
- 25) Effect #1 to monitor level adjustment
- 26) Effect #2 to monitor level adjustment
- 27) Effect #3 to monitor level adjustment
- 28) Main Left channel output level adjustment

- 29) Main Right channel output level adjustment
- 30) Monitor output level adjustment
- 31) Headphone output level adjustment
- 32) Headphone output jack
- 33) Power on/off switch



THIS UNIT COMPLIES WITH THE LIMITS FOR A CLASS B COMPUTING DEVICE PURSUANT TO SUBPART J OF PART 15 OF FCC RULES.

**PEAVEY**  
**PLM™ 8128**  
 A PRODUCT OF PEAVEY ELECTRONICS CORP.  
 MERIDIAN, MS **MADE IN U.S.A.**

- 34) Power cable
- 35) Stereo Right AUX input
- 36) Stereo Left AUX input
- 37) Monitor AUX input
- 38) Solo AUX input
- 39) Right main mixer output
- 40) Left main mixer output
- 41) Monitor mixer output
- 42) Solo mixer output
- 43) Effects 3 bus AUX input
- 44) Effects 3 send
- 45) Effects 3 return
- 46) Effects 2 bus AUX input
- 47) Effects 2 send
- 48) Effects 2 return
- 49) Effects 1 bus AUX input
- 50) Effects 1 send
- 51) Effects 1 return
- 52) -20 dBV to +4 dBV selector button for input #7
- 53) Stereo Input #7
- 54) -20 dBV to +4 dBV selector button for input #5
- 55) Stereo Input #5
- 56) -20 dBV to +4 (-6) dBV selector button for input #3
- 57) Stereo Input #3
- 58) -20 (-30) dBV to +4 (-6) dBV selector button for input #1
- 59) Stereo Input #1
- 60) Balanced line input channel 1
- 61) -20 dBV to +4 selector button for input #8
- 62) Stereo Input #8
- 63) -20 dBV to +4 dBV selector button for input #6
- 64) Stereo Input #6
- 65) -20 dBV to +4 dBV selector button for input #4
- 66) Stereo Input #4
- 67) -20 (-30) dBV to +4 (-6) dBV selector button for input #2
- 68) Stereo Input #2
- 69) Balanced line input channel 2
- 70) MIDI Out port
- 71) MIDI In port
- 72) Control interface port

**THIS LIMITED WARRANTY VALID ONLY WHEN PURCHASED AND REGISTERED IN THE UNITED STATES OR CANADA. ALL EXPORTED PRODUCTS ARE SUBJECT TO WARRANTY AND SERVICES TO BE SPECIFIED AND PROVIDED BY THE AUTHORIZED DISTRIBUTOR FOR EACH COUNTRY!**

Ces clauses de garantie ne sont valables qu'aux Etats-Unis et au Canada. Dans tous les autres pays, les clauses de garantie et de maintenance sont fixées par le distributeur national et assurées par lui selon la législation en vigueur.

Diese Garantie ist nur in den USA und Kanada gültig. Alle Export-Produkte sind der Garantie und dem Service des Importeurs des jeweiligen Landes unterworfen.

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**PEAVEY ONE-YEAR LIMITED  
WARRANTY/REMEDY**

PEAVEY ELECTRONICS CORPORATION ("PEAVEY") warrants this product, EXCEPT for covers, footswitches, patchcords, tubes and meters, to be free from defects in material and workmanship for a period of one (1) year from date of purchase, PROVIDED, however that this limited warranty is extended only to the original retail purchaser and is subject to the conditions, exclusions and limitations hereinafter set forth:

**PEAVEY 90-DAY LIMITED WARRANTY ON TUBES AND METERS**

If this product contains tubes or meters, Peavey warrants the tubes or meters contained in the product to be free from defects in material and workmanship for a period of ninety (90) days from date of purchase; PROVIDED, however, that this limited warranty is extended only to the original retail purchaser and is also subject to the conditions, exclusions and limitations hereinafter set forth.

**CONDITIONS, EXCLUSIONS AND LIMITATIONS OF LIMITED WARRANTIES**

These limited warranties shall be void and of no effect if:

- a. The first purchase of the product is for the purpose of resale; or
- b. **The original retail purchase is not made from an AUTHORIZED PEAVEY DEALER; or**
- c. The product has been damaged by accident or unreasonable use, neglect, improper service or maintenance, or other causes not arising out of defects in material or workmanship;

or

- d. The serial number affixed to the product is altered, defaced or removed.

In the event of a defect in material and/or workmanship covered by this limited warranty, Peavey will:

- a. In the case of tubes or meters, replace the defective component without charge;
- b. In other covered cases (i.e., cases involving anything other than covers, footswitches, patchcords, tubes or meters), repair the defect in material or workmanship or replace the product, at Peavey's option;

and provided, however, that, in any case, all costs of shipping, if necessary, are paid by you, the purchaser.

THE WARRANTY REGISTRATION CARD SHOULD BE ACCURATELY COMPLETED AND MAILED TO AND RECEIVED BY PEAVEY WITHIN FOURTEEN (14) DAYS FROM THE DATE OF YOUR PURCHASE.

In order to obtain service under these warranties, you must:

- a. Bring the defective item to any PEAVEY AUTHORIZED DEALER or AUTHORIZED PEAVEY SERVICE CENTER and present therewith the PERSONAL WARRANTY IDENTIFICATION CARD **along with** the ORIGINAL PROOF OF PURCHASE supplied to you by the AUTHORIZED PEAVEY DEALER in connection with your purchase from him of this product.

If the DEALER or SERVICE CENTER is unable to provide the necessary warranty service you will be directed to the nearest other PEAVEY AUTHORIZED DEALER or AUTHORIZED PEAVEY SERVICE CENTER which can provide such service.

**OR**

- b. Ship the defective item, prepaid, to:

PEAVEY ELECTRONICS CORPORATION  
711 "A" STREET  
MERIDIAN, MS 39301

including therewith a complete, detailed description of the problem, together with your PERSONAL WARRANTY IDENTIFICATION CARD **along with a legible** copy of the original PROOF OF PURCHASE, and a complete return address. Upon Peavey's receipt of the item:

If the defect is remedial under these limited warranties and the other terms and conditions expressed herein have been complied with, Peavey will provide the necessary warranty service to repair or replace the product and will return it, FREIGHT COLLECT, to you, the purchaser.

Peavey's liability to the purchaser for damages from any cause whatsoever and regardless of the form of action, including negligence, is limited to the actual damages up to the greater of \$500.00 or an amount equal to the purchase price of the product that caused the damage or that is the subject of or is directly related to the cause of action. Such purchase price will be that in effect for the specific product when the cause of action arose. This limitation of liability will not apply to claims for personal injury or damage to real property or tangible personal property allegedly caused by Peavey's negligence. Peavey does not assume liability for personal injury or property damage arising out of or caused by a non-Peavey alteration or attachment, nor does Peavey assume any responsibility for damage to interconnected non-Peavey equipment that may result from the normal functioning and maintenance of the Peavey equipment.

UNDER NO CIRCUMSTANCES WILL PEAVEY BE LIABLE FOR ANY LOST PROFITS, LOST SAVINGS, ANY INCIDENTAL DAMAGES OR ANY CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

THESE LIMITED WARRANTIES ARE IN LIEU OF ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE; PROVIDED, HOWEVER, THAT IF THE OTHER TERMS AND CONDITIONS NECESSARY TO THE EXISTENCE OF THE EXPRESS, LIMITED WARRANTIES, AS HEREINABOVE STATED, HAVE BEEN COMPLIED WITH, IMPLIED WARRANTIES ARE NOT DISCLAIMED DURING THE APPLICABLE ONE-YEAR OR NINETY-DAY PERIOD FROM DATE OF PURCHASE OF THIS PRODUCT.

SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THESE LIMITED WARRANTIES GIVE YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

THESE LIMITED WARRANTIES ARE THE ONLY EXPRESS WARRANTIES ON THIS PRODUCT, AND NO OTHER STATEMENT, REPRESENTATION, WARRANTY OR AGREEMENT BY ANY PERSON SHALL BE VALID OR BINDING UPON PEAVEY.

In the event of any modification or disclaimer of express or implied warranties, or any limitation of remedies, contained herein conflicts with applicable law, then such modification, disclaimer or limitation, as the case may be, shall be deemed to be modified to the extent necessary to comply with such law.

Your remedies for breach of these warranties are limited to those remedies provided herein and Peavey Electronics Corporation gives this limited warranty only with respect to equipment purchased in the United States of America.

**INSTRUCTIONS — WARRANTY REGISTRATION CARD**

1. Mail the completed WARRANTY REGISTRATION CARD to:

PEAVEY ELECTRONICS CORPORATION  
POST OFFICE BOX 2898  
MERIDIAN, MISSISSIPPI 39302-2898

- a. Keep the PERSONAL WARRANTY I.D. CARD along with your PROOF OF PURCHASE. In the event warranty service is required during the warranty period, you will need these documents. **There will be no other identification card issued by Peavey Electronics Corporation.**
  - b. Defaced, mutilated or altered CARDS will not be honored.
2. **IMPORTANCE OF WARRANTY REGISTRATION CARDS AND NOTIFICATION OF CHANGES OF ADDRESS:**
    - a. Completion and mailing of WARRANTY REGISTRATION CARDS — Should notification become necessary for any condition that may require correction, the REGISTRATION CARD will help ensure that you are contacted and properly notified.
    - b. Notice of address changes — If you move from the address shown on the WARRANTY REGISTRATION CARD, you should notify Peavey of the change of address so as to facilitate your receipt of any bulletins or other forms of notification which may become necessary in connection with any condition that may require dissemination of information or correction.
3. You may contact Peavey directly by telephoning (601) 483-5365.

### DANGER

EXPOSURE TO EXTREMELY HIGH NOISE LEVELS MAY CAUSE A PERMANENT HEARING LOSS. INDIVIDUALS VARY CONSIDERABLY IN SUSCEPTIBILITY TO NOISE INDUCED HEARING LOSS, BUT NEARLY EVERYONE WILL LOSE SOME HEARING IF EXPOSED TO SUFFICIENTLY INTENSE NOISE FOR A SUFFICIENT TIME. THE U.S. GOVERNMENT'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAS SPECIFIED THE FOLLOWING PERMISSIBLE NOISE LEVEL EXPOSURES:

DURATION PER DAY IN HOURS	SOUND LEVEL dBA, SLOW RESPONSE
8	90
6	92
4	95
3	97
2	100
1½	102
1	105
¾	110
½ or less	115

ACCORDING TO OSHA, ANY EXPOSURE IN EXCESS OF THE ABOVE PERMISSIBLE LIMITS COULD RESULT IN SOME HEARING LOSS.

EAR PLUGS OR PROTECTORS IN THE EAR CANALS OR OVER THE EARS MUST BE WORN WHEN OPERATING THIS AMPLIFICATION SYSTEM IN ORDER TO PREVENT A PERMANENT HEARING LOSS IF EXPOSURE IS IN EXCESS OF THE LIMITS AS SET FORTH ABOVE. TO INSURE AGAINST POTENTIALLY DANGEROUS EXPOSURE TO HIGH SOUND PRESSURE LEVELS, IT IS RECOMMENDED THAT ALL PERSONS EXPOSED TO EQUIPMENT CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS SUCH AS THIS AMPLIFICATION SYSTEM BE PROTECTED BY HEARING PROTECTORS WHILE THIS UNIT IS IN OPERATION.

### CAUTION

THIS MIXING CONSOLE/EFFECTS DEVICE/PREAMP HAS BEEN DESIGNED AND CONSTRUCTED TO PROVIDE ADEQUATE SIGNAL (VOLTAGE) FOR PLAYING MODERN MUSIC. IMPROPER USE OF THE GAIN/EQUALIZER CONTROLS AND/OR IMPROPER USE OF INTERNAL/EXTERNAL BUSES **MAY** CREATE CLIPPING (SQUARE WAVES) AND POSSIBLY CAUSE SUBSEQUENT DAMAGE TO THE LOUDSPEAKER SYSTEMS. EXTENDED OPERATION OF THE GAIN/EQUALIZATION CONTROLS IN THEIR MAXIMUM POSITIONS IS THEREFORE **NOT** RECOMMENDED. PLEASE BE AWARE THAT **MAXIMUM POWER** CAN BE OBTAINED WITH VERY LOW SETTINGS OF THE **GAIN/EQUALIZATION** CONTROLS IF THE INPUT SIGNAL IS VERY STRONG.

IT IS COMMON PRACTICE AMONG USERS OF SOUND REINFORCEMENT EQUIPMENT TO IDENTIFY THE INDIVIDUAL CHANNELS WITH A STRIP OF TAPE PLACED ABOVE OR BELOW THE ROW OF VOLUME FADERS. MANY TYPES OR BRANDS OF TAPE HAVE A VERY STRONG ADHESIVE WHICH CAN INHIBIT THE PAINT ON THE FACEPLATE AND ACTUALLY REMOVE THE PAINT WHEN THE TAPE IS REMOVED. WE STRONGLY RECOMMEND THAT SCOTCH TAPE NOT BE USED ON PAINTED SURFACES NOR ANY OTHER TAPE THAT IS NOT ESPECIALLY DESIGNED FOR SUCH APPLICATIONS. MEDIUM WEIGHT ADHESIVE MASKING OR MASKER LABEL TAPE IS RECOMMENDED IF TAPE IS USED. ANY TAPE LEFT ON PAINTED SURFACE FOR EXTENDED PERIODS WILL BE DIFFICULT TO REMOVE. NEVER USE CLEAR OR SCOTCH TAPE FOR THESE APPLICATIONS.

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be retained for future reference.
3. Obey all cautions in the operating instructions and on the back of the unit.
4. All operating instructions should be followed.
5. This product should not be used near water, i.e. a bathtub, sink, swimming pool, wet basement, etc.
6. This product should be located so that its position does not interfere with its proper ventilation. It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
7. This product should not be placed near a source of heat such as a stove, radiator or another heat producing amplifier.
8. Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
9. Never break off the ground pin on the power supply cord. For more information on grounding write for our free booklet "Shock Hazard and Grounding."
10. Power supply cords should always be handled carefully. Never walk or place equipment on power supply cords. Periodically check cords for cuts or signs of stress, especially at the plug and the point where the cord exits the unit.
11. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
12. If this product is to be mounted in an equipment rack, rear support should be provided.
13. Metal parts can be cleaned with a damp rag. The vinyl covering used on some units can be cleaned with a damp rag, or an ammonia based household cleaner if necessary.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation holes or any other openings.
15. This unit should be checked by a qualified service technician if:
  - A. The power supply cord or plug has been damaged.
  - B. Anything has fallen or been spilled into the unit.
  - C. The unit does not operate correctly.
  - D. The unit has been dropped or the enclosure damaged.
16. The user should not attempt to service this equipment. All service work should be done by a qualified service technician.



Features and specifications subject to change without notice.

**Peavey Electronics Corporation** 711 A Street / Meridian, MS 39302-2898 / U.S.A. / (601) 483-5365 / Telex: 504115 / Fax: 486-1278  
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