

# NADY<sup>®</sup> AUDIO

## OWNER'S MANUAL



# MPM 8175x

## 8 CHANNEL POWERED MIXER

# MPM 8175x

## 8 CHANNEL POWERED MIXER

# NADY®

## AUDIO



Congratulations on your choice of a powered mixer — you have purchased one of the finest powered mixers on the market today. This unit was developed using the expertise of professional sound engineers and working musicians. You will find that your new NADY AUDIO MPM 8175x has superior performance and greater flexibility than any other powered mixers in its price range. Please read this manual carefully to get the most out of your new unit.

Thanks for selecting NADY AUDIO as your choice in powered mixers.

## FEATURES

Rugged and easy to operate, the MPM 8175x offers great features and performance at an extremely affordable price and is ideal for many small venue applications.

- 8 channels with XLR Mic and 1/4" TRS Line inputs
- Amplifier delivers 175W @ 4 ohms total into 2 parallel speaker output 1/4" jacks
- Built in Digital Delay produces choice of 4 sound enhancing time delays ranging from small room to spacious
- Each channel offers Level and individual Digital Delay controls and a Low/High 2-band EQ
- Master section includes CD/Tape Level, Master Level, and Digital Delay Level and Delay Time select controls; Digital Delay Select switch; and L,R Tape In and Tape Record Out RCA jacks
- Rear panel Main Out/Amp In 1/4" TRS jack unbalanced insert point provides a break between the Main Out and the built-in amplifier, allowing the output to be sent to an external signal processor or additional power amplifier
- Shielded internal power supply with ~115V(60Hz)/ ~230V(50Hz) select switch and fused IEC power cord connector
- Rugged case with handles and light weight (only 20.6 lbs / 9.3 Kg) for roadworthy reliability and easy portability

## TABLE OF CONTENTS

FEATURES .....	2
WARNING .....	3
INSTALLATION.....	4
FRONT CONNECTIONS .....	5
REAR CONNECTIONS.....	6
APPLICATIONS .....	7
SPECIFICATIONS.....	9
NOTES .....	10

Date of Purchase \_\_\_\_\_

Dealer's Name \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Model # \_\_\_\_\_

Serial # \_\_\_\_\_

# WARNING



An equilateral triangle enclosing a lightning flash/arrowhead symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure which may be of sufficient magnitude to constitute a risk of electric shock.



An equilateral triangle enclosing an exclamation point is intended to alert the user to the presence of important operating and service instructions in the literature enclosed with this unit.

## IMPORTANT SAFETY INSTRUCTIONS

When using this electronic device, basic precautions should always be taken, including the following:

1. Read all instructions before using the product.
2. Do not use this product near water (e.g., near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, etc.).
3. This product should be used only with a cart or stand that will keep it level and stable and prevent wobbling.
4. This product, in combination with headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be positioned so that proper ventilation is maintained.
6. The product should be located away from heat sources such as radiators, heat vents, or other devices (including amplifiers) that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product. Replace the fuse only with one of the specified type, size, and correct rating.
8. The power supply cord should: (1) be undamaged, (2) never share an outlet or extension cord with other devices so that the outlet's or extension cord's power rating is exceeded, and (3) never be left plugged into the outlet when not being used for a long period of time.
9. Care should be taken so that objects do not fall into, and liquids are not spilled through, the enclosure's openings.
10. The product should be serviced by qualified service personnel if:
  - A. The power supply cord or the plug has been damaged.
  - B. Objects have fallen into, or liquid has been spilled onto the product.
  - C. The product has been exposed to rain.
  - D. The product does not appear to operate normally or exhibits a marked change in performance.
  - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond what is described in the user maintenance instructions. All other servicing should be referred to qualified service personnel.

# INSTALLATION

To ensure years of enjoyment from your NADY AUDIO MPM 8175x, please read and understand this manual thoroughly before using the unit.

## **INSPECTION**

Your MPM 8175x was carefully packed at the factory in packaging designed to protect the units in shipment. Before installing and using your unit, carefully examine the packaging and all contents for any signs of physical damage that may have occurred in transit.

*(Note: Nady Systems is not responsible for shipping damage. If the unit is damaged, do not return to us, but notify your dealer and the shipping company immediately to make a claim. Such claims must be made by the consignee in a timely manner.)*

## **CONTENTS:**

- Instruction manual
- MPM 8175x (verify that the unit's serial number is same as shown on shipping carton)
- AC Power cord
- Warranty Card

## **POWER CONNECTION**

The MPM 8175x has an internal power supply and is designed to operate from an external AC source. Power requirements for electrical equipment differ from area to area. Be sure to confirm that the voltage selected by the voltage selector switch on the back panel is proper for your area (120VAC/60 Hz or 230VAC/50Hz) per the information below:

Europe (except UK): 230V, 50Hz  
UK and Australia: 240V, 50Hz  
USA and Canada: 120V, 60 Hz  
For other areas, please check with local authorities.

When ready to operate, plug the AC cord into the power source. Make sure that the unit is turned off before connecting to the AC power source to avoid possible loud transients that can damage your speakers or your ears, especially when monitoring with head-phones.

# FRONT CONNECTIONS



## FRONT PANEL

Note: 1 through 5 below are referenced to Channel 1. The other 7 Channels are identical.

### (1) LOW EQ

The control shelving response giving 15dB of boost or cut at 80Hz. Add warmth to vocals or extra punch to guitars, drums and synths by turning to the right. Turn to the left to reduce stage rumble, hum or to improve a mushy sound.

### (2) HIGH EQ

Turn to the right to boost high frequencies, adding crispness too percussion from drum machines, cymbals and synths. Turn to the left to cut these frequencies, reducing sibilance or hiss. The control has a shelving response giving 15dB of boost or cut at 12kHz. .

### (3) LEVEL CONTROL

The Level Control determines the proportion of the channel signal in the mix, and provides a clear visual indication of channel level.

### (4) MIC/LINE INPUTS

The MIC Input is via an XLR connector. Please use a low impedance microphone and a properly wired cable for best results.

The LINE Input connection is made via a 1/4" TRS jack. This Input is balanced and can accommodate either a Mic or Line level Input source.

### (5) DIGITAL DELAY (DD)

This knob determines the signal level which will be sent to the built-in **DIGITAL DELAY Effect (6)** control

### (6) DIGITAL DELAY

The signal from the input channels, processed by the built-in digital delay will feed to the master output. There are three knobs here to control the effect of the delay.

#### (6a) SWITCH

This push button switches the delay effect ON/OFF.

#### (6b) LEVEL

This knob adjusts the mix level of the effect sound.

#### (6c) TIME (ms)

This knob selects 80ms, 120ms, 160ms, or 200ms of delay as desired for your intended effect.

### (7) POWER ON LED INDICATOR

Indicates when the unit is ON.

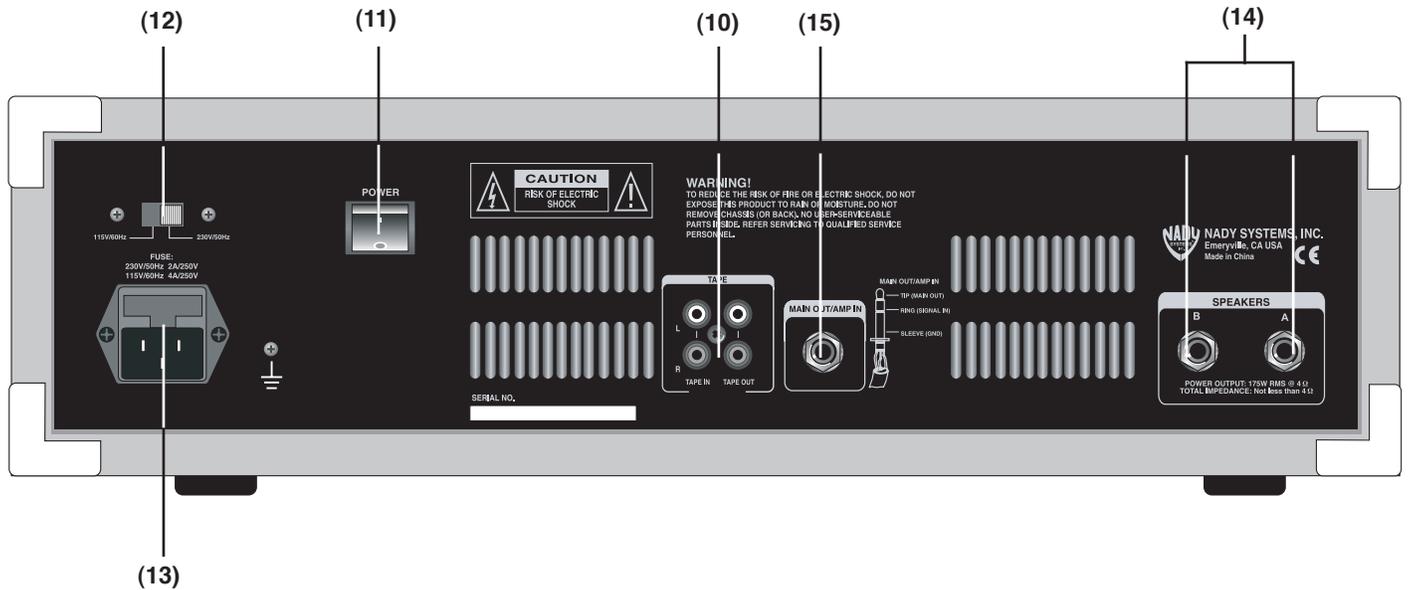
### (8) TAPE IN CONTROL

This knob adjusts the level of signal from the **TAPE IN (10)** to the Main bus.

### (9) MASTER CONTROL

This adjusts the signal level of the Main bus. This is the signal that is output to the speakers.

# REAR CONNECTIONS



## REAR PANEL

### (10) TAPE IN AND TAPE OUT

The TAPE IN allows cassette recorders or CD players to be added to the Main output. The RECORD OUTPUT, with TAPE RCA jacks, provides signal output to a recording deck or home audio equipment. The nominal output level and impedance are -10dBV/600 ohms.

### (11) POWER SWITCH

Turns the unit ON or OFF. Always turn level controls down before turning on the unit.

### (12) VOLTAGE SELECTOR SWITCH

For selecting the proper voltage (115/230VAC) to match the power supply in your area.

*Note: To avoid damage to your unit, always make sure this switch is set to the correct supply voltage. Damage caused by improper use is not covered by the warranty.*

### (13) POWER CONNECTOR WITH FUSE HOLDER

This standard IEC power cord receptacle is used to connect the AC power to your unit. It features a built-in fuse holder for a 5X20mm, (4A/250V for 115VAC, and 2A/250V for 230VAC operation) fast-blow fuse. If the fuse continuously blows, shut off the unit and have it serviced by qualified service personnel.

### (14) MONO SPEAKER OUTPUTS

These 1/4" (6.3mm) jacks are daisy-chained together internally and powered by the mono amplifier output stage. Use speaker cables to connect these jacks to your speaker cabinets.

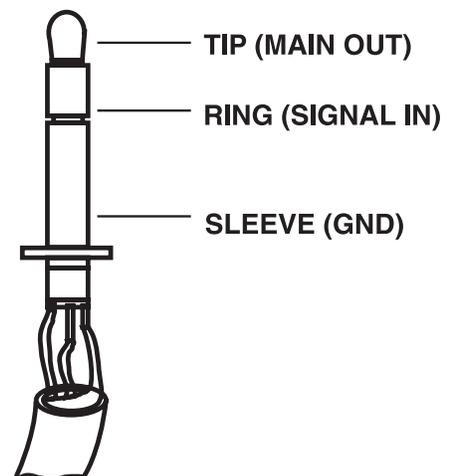
**CAUTION: The minimum allowed total impedance connected to the mono amplifier is 4 ohms ( 8 ohms per output). Connecting speaker loads with less than 4 ohms total**

**impedance will degrade performance and may harm the amp. Damage to the amp caused by connecting less than a 4 ohms speaker load is NOT covered by the warranty.**

### (15) MAIN OUT/AMP IN

This unbalanced insert point is a break between the main out and the mixer main point and the main amplifier. This insert is a 1/4" TRS phone jack that is normally bypassed. When a 1/4" TRS phone plug is inserted, the signal path is broken. Depending on the wiring of the plug inserted into this jack, the MPM 8175x can be used as either a mixer for a power amplifier or as a power amplifier for an external input line level signal from a preamp or mixer. Alternatively the jack can be used as an insert point for an external effects device to process the output signal from the mixer section of the MPM 8175x and return it pre the power amplifier

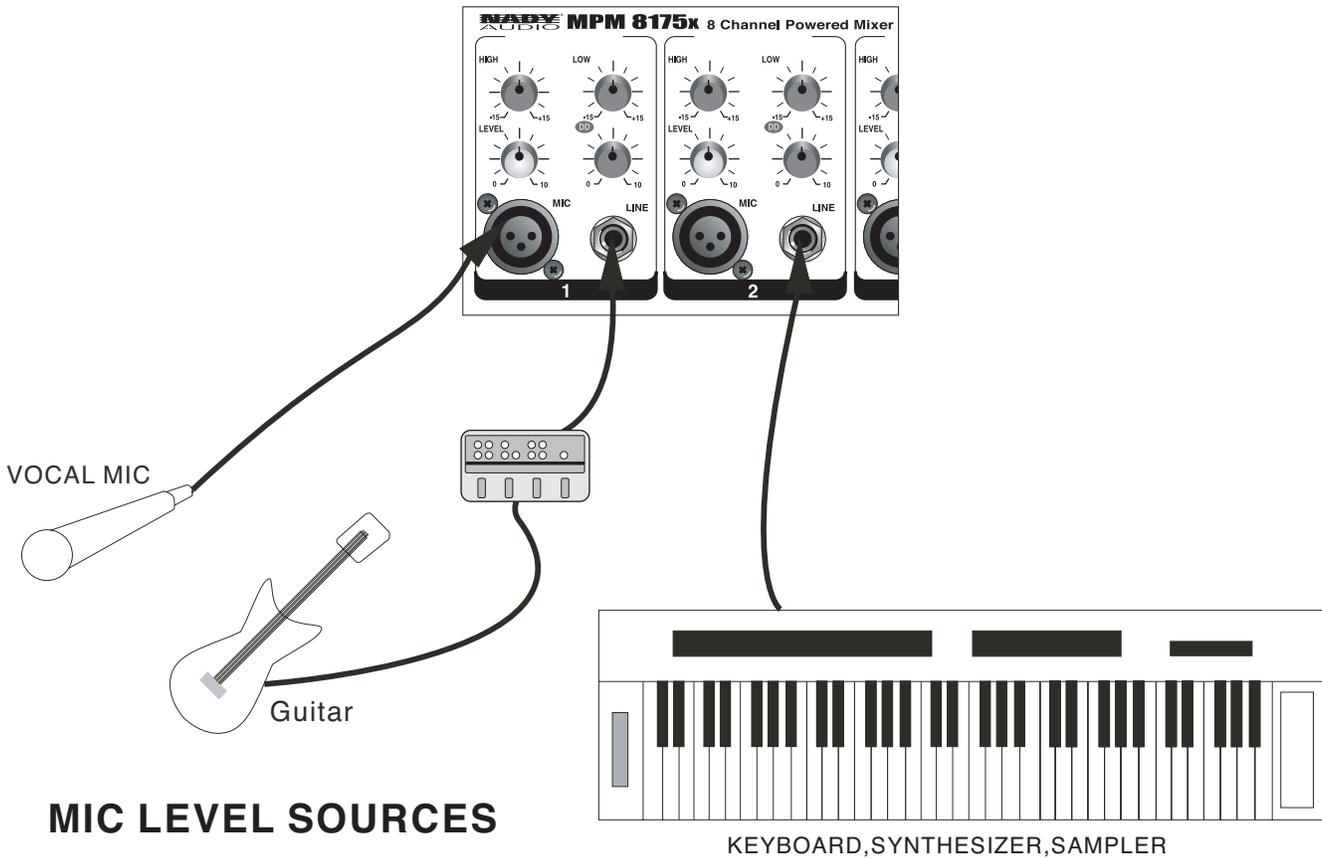
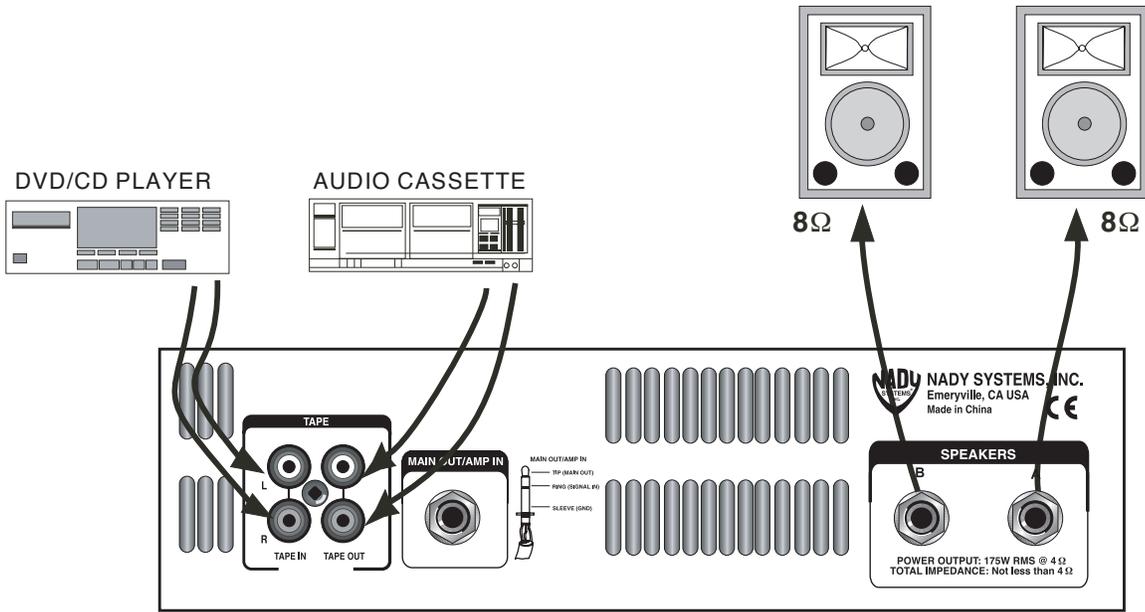
### MAIN OUT/AMP IN



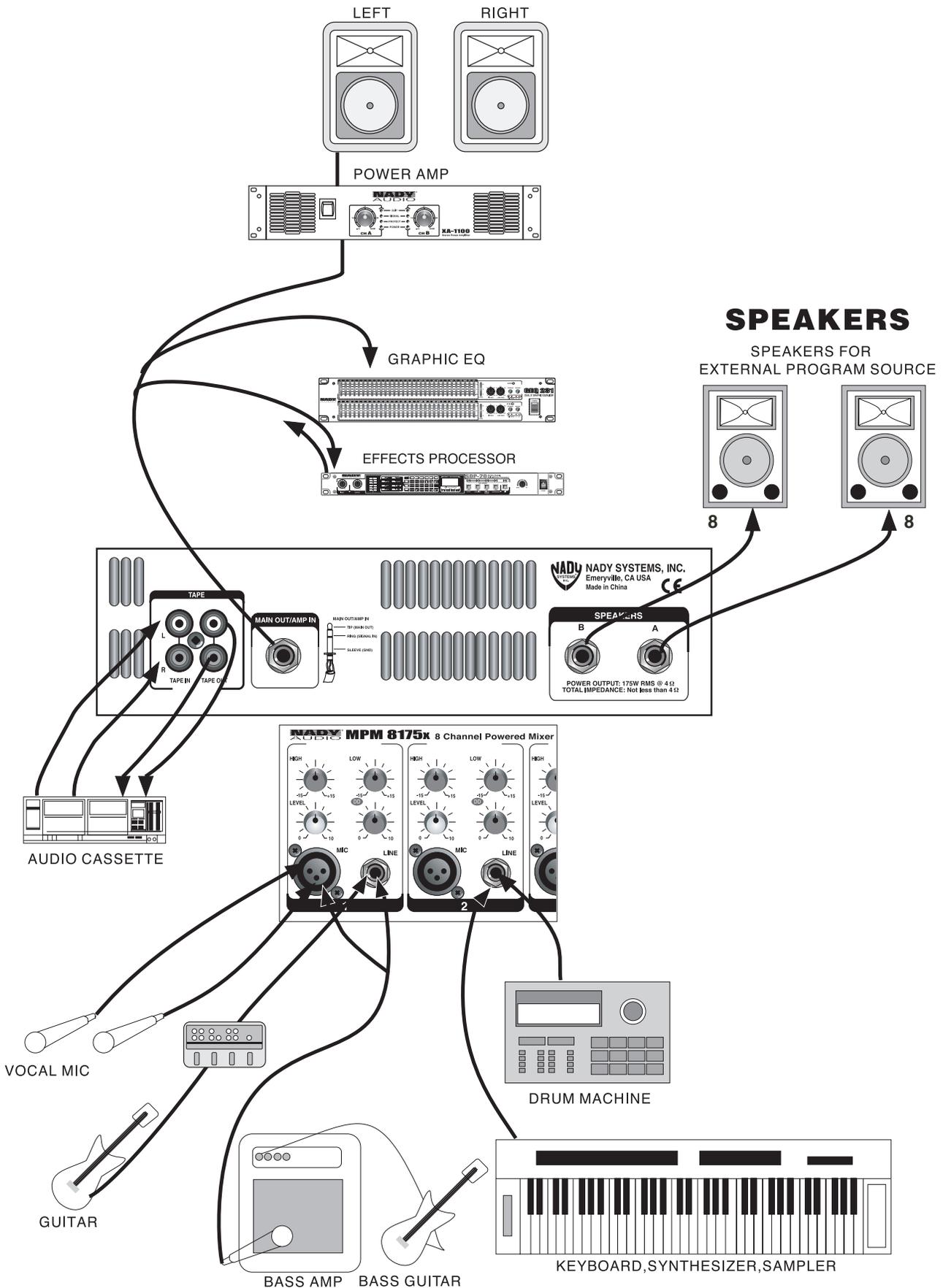
# APPLICATIONS

## SPEAKERS

### FRONT OF HOUSE SPEAKERS



# APPLICATIONS



**MIC LEVEL SOURCES**

**LINE LEVEL SOURCES**

# SPECIFICATIONS

## POWER AMP OUTPUT

8Ω Total Impedance .....	100W
4Ω Total Impedance .....	175W

## INPUTS

1/4" TRS balanced/unbalanced mic/line level .....	8
XLR balanced mic level .....	8
RCA tape input .....	2

## CHANNELS

Level .....	Rotary Control
Effect .....	Rotary Control
Low EQ .....	80Hz ±15dB
Hi EQ .....	12KHz ±15dB

## MASTER SECTION

Master Volume .....	Rotary Control
Delay On/Off .....	Push Button Switch
Digital Delay Level .....	Rotary Control
Digital Delay Time (80mS, 120mS, 160mS, 200mS) .....	4-position Rotary Switch

## AUDIO

S/N Ratio .....	>120dB
THD Power output, 20Hz to 20KHz .....	<0.1% @ 100W/4 ohms

## CROSSTALK (1KHz @ 0dBu, channel in to master output)

Channel fader down .....	<-65dB
--------------------------	--------

## FREQUENCY RESPONSE (Mic input to output)

Line level o/p @ +4dBu into 600Ω .....	±2dB
Power amp o/p 1 watt into 8Ω .....	±2dB

## SENSITIVITY @ MIXER OUTPUT +4dBu with Master and channels controls set to MID

Mic/Line .....	-42dB/-22dB
Tape in .....	-10dB

## MAX INPUT LEVEL

XLR .....	-5dB
1/4" .....	+16dB

MICROPHONE PREAMP E.I.N. (150( Terminated, max. Gain) .....	<-120dBm
---	----------

POWER CONSUMPTION .....	200W
-------------------------	------

POWER REQUIREMENTS .....	105-125VAC, 220-240VAC, 50-60 Hz
--------------------------	----------------------------------

FUSE .....	5x20mm glass type 4A/250V for 115VAC, 2A/250V for 230VAC, fast-blow fuse
------------	--

DIMENSIONS (H x W x D) .....	5.25"x 19.25"x 9.5" (13.3 x 48.9 x 24.1 cm)
------------------------------	---

WEIGHT .....	19.3 lbs. (8.8 kg)
--------------	--------------------

The specifications above are correct at the time of printing of this manual. For improvement purposes, all specifications for this unit, including design and appearance, are subject to change without prior notice.

# NOTES



## **SERVICE FOR YOUR NADY AUDIO PRODUCT**

**(U.S.)** Should your NADY AUDIO product require service, please contact the Nady Service Department via telephone at (510) 652-2411, or e-mail at [service@nady.com](mailto:service@nady.com).

**(International)** For service, please contact the NADY AUDIO distributor in your country through the dealer from whom you purchased this product.

DO NOT ATTEMPT TO SERVICE THIS UNIT  
YOURSELF AS IT CAN BE DANGEROUS AND  
WILL ALSO VOID THE WARRANTY.

