

NADY[®] AUDIO

OWNER'S MANUAL



RPA-4

4 CHANNEL PORTABLE SOUND SYSTEM

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Congratulations on your choice of the NADY AUDIO RPA-4 Portable Sound System — you have purchased one of the finest portable sound systems 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 RPA-4 has superior performance and greater flexibility than any other portable sound systems 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 portable sound system.

FEATURES

- Compact ("take anywhere") complete one-piece portable sound system with built-in powered mixer and speaker
- Collapsible/locking handle and built-in rubber rollerblade wheels
- 100W RMS @ 4 Ω
- 4 mono balanced (XLR and 1/4" TRS) inputs
- 10" woofer and compression dome tweeter
- Channel Controls - Gain, Reverb, High EQ, Low EQ controls
- Master Volume, High, Mid and Low EQ controls
- DSP Reverb with Level and Depth controls
- 1/4" Effect Send, Return, and Line Out jacks; RCA Tape In/Rec Out
- Rugged enclosure with vinyl cover, carrying handle, and basemount for mounting on a speaker stand

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Date of Purchase _____

Dealer's Name _____

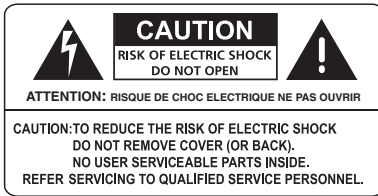
City _____

State _____ Zip _____

Model # _____

Serial # _____

WARNING



An equilateral triangle enclosing a lightening 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 RPA-4, please read and understand this manual thoroughly before using the unit.

INSPECTION

Your RPA-4 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
- RPA-4 (verify that the unit's serial number is same as shown on shipping carton)
- AC Power cord
- Warranty Card

POWER CONNECTION

The PRA-4 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

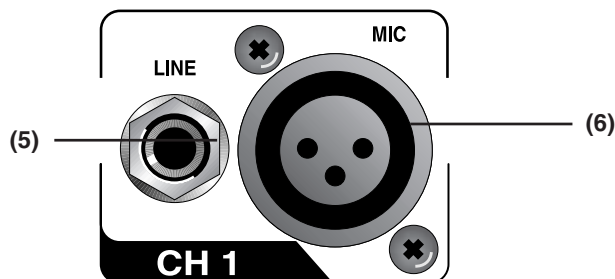
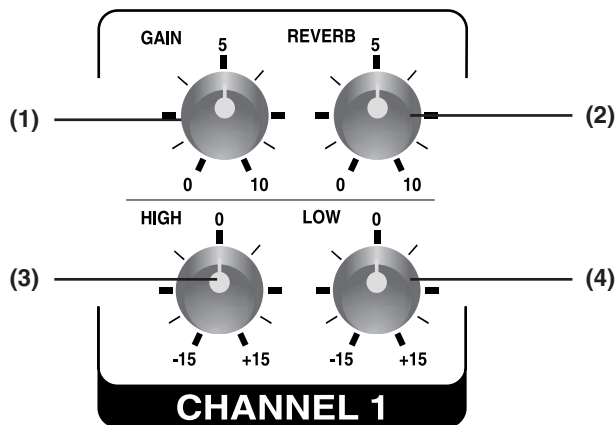
UK and Australia: 240V, 50Hz

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 which can damage your speakers or your ears, especially when monitoring with headphones.

FRONT PANEL CONTROLS & CONNECTIONS



FRONT PANEL

Note: 1 through 6 below are referenced to Channel 1. The other 3 channels are identical.

(1) GAIN CONTROL

The Gain Control determines the proportion of the channel signal in the mix,

(2) REVERB CONTROL

The Reverb Control adjusts the level of signal sent by each channel to the internal Reverb DSP (Digital Sound Processor). The signal sent is mono, post-High/Low and will be affected by the channel Gain Control.

(3) HIGH CONTROL

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

(4) LOW CONTROL

Add warmth to vocals or extra punch to guitars, drums and synths on the channel by turning this control to the right. Turn to the left to reduce stage rumble, hum or to improve a mushy sound. The control has a shelving response giving 15dB of bust or cut at 100Hz.

(5) LINE INPUT

The Line input is designed to accept balanced or unbalanced line-level signals such as those from keyboards, drum machines, or samplers. Use the GAIN control (1) to adjust for the desired level. If a balanced signal is to be connected to the line input, then a 1/4" TRS (stereo) phone plug should be wired for: Tip = positive (+), Ring = negative (-), Sleeve = ground.

(6) MIC INPUT

The Mic input is an electronically balanced XLR type designed to accept signals from any balanced low impedance (Low Z) microphone. It will be necessary to adjust the channel gain with the input GAIN control (1) to achieve a nominal operating level. The XLR jack is configured for: Pin1 = ground, Pin2 = positive (+), Pin3 = negative (-).

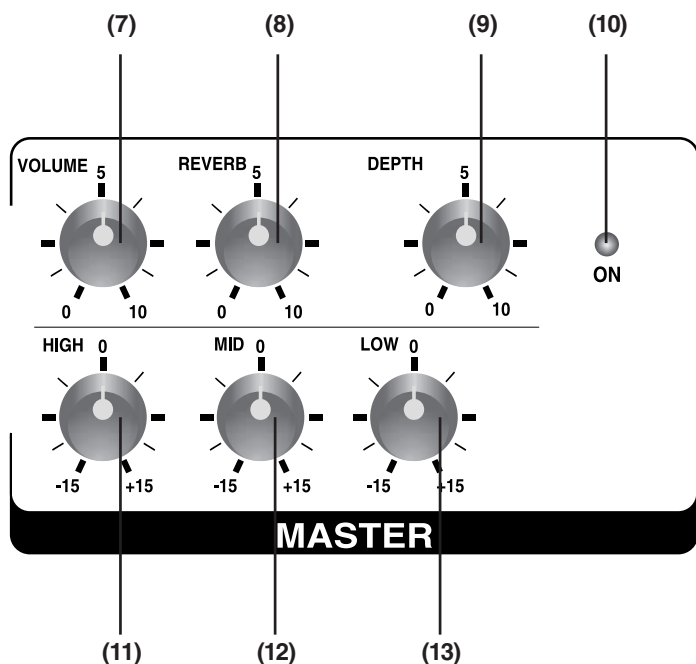
(Note: Only either the Mic or the Line input of a given channel can be connected at one time. Do not connect both simultaneously to the same channel.)

(7) MASTER — VOLUME CONTROL

This controls the final level of the signal output.

(8) MASTER — REVERB CONTROL

This controls the level of the reverb effects sound.



FRONT PANEL CONTROLS & CONNECTIONS

(9) MASTER — DEPTH CONTROL

This controls the amount of feedback of the reverb reflection, i.e. the number of reflections and the length of time before they diminish in volume.

(10) POWER ON LED INDICATOR

Indicates when the unit is ON.

(11) MASTER — HIGH CONTROL

The control has a shelving response giving 15dB of boost or cut at 12KHz.

(12) MASTER — MID CONTROL

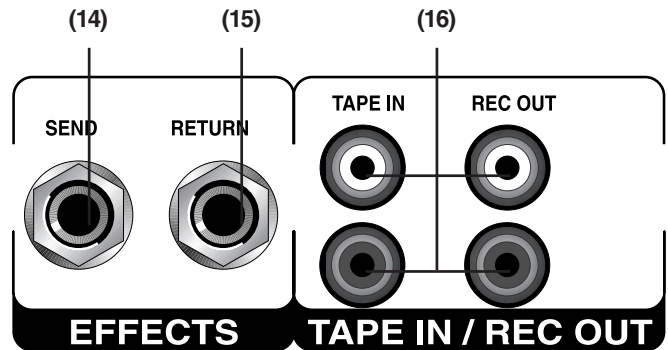
The control has a shelving response giving 15dB of boost or cut at 1.5KHz.

(13) MASTER — LOW CONTROL

The control has a shelving response giving 15dB of boost or cut at 100Hz.

(14) EFFECTS SEND

This line level output can be connected to external recorders, amplifiers, or effects processors. The signal is a mix of the channel inputs determined by each Channel Gain control.



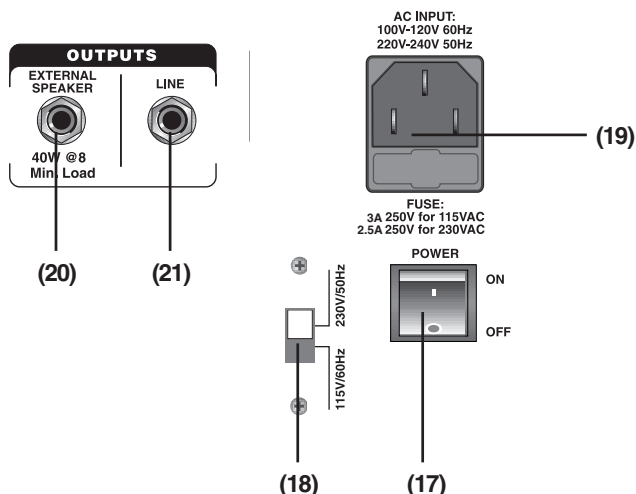
(15) EFFECTS RETURN

This input can be used to return the effected signal into the RPA-6 or it can be used as an auxiliary input. The input signal can be adjusted by the Master Volume and the unit the return jack is connected to.

(16) TAPE IN AND TAPE OUT

The Left and Right 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 cassette deck or home audio equipment.

REAR PANEL CONTROL & CONNECTIONS



(19) 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, (3.5A/250V for 115VAC, and 2.5A/250V for 230VAC operation) fast-blow fuse. If the fuse continuously blows, shut off the unit and have it serviced by qualified service personnel.

(20) EXTERNAL SPEAKER OUTPUT

1/4" (6.3mm) jack for connecting an external speaker cabinet to the RPA-6. The connected speaker impedance must be 8 ohms or greater. The RPA-6 external speaker output delivers 50W RMS of power @ 8 Ohms.

CAUTION: Do not overload the RPA-6 with speaker loads less than 8 ohms as this will degrade performance and may harm the unit. Damage caused by improper use is not covered by the warranty.

REAR PANEL

(17) POWER SWITCH

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

(18) VOLTAGE SELECTOR SWITCH

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

(21) LINE OUTPUT

These 1/4" (6.3mm) audio output is line level, post Master Volume, designed for connecting to external recorders, mixers, or amplifiers.

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.

SPECIFICATIONS

AMPLIFIER AND SPEAKER

Power	100W RMS @ 4 Ω
S/N Ratio	>115dB
THD Power output, 20Hz to 20KHz	<0.1%
Speaker	8 Ω
Tweeter type	Compression Dome
Woofer	10"

FREQUENCY RESPONSE (Mic input to output)

Line level o/p @ +4dBu into 600 Ω	20Hz- 20KHz $\pm$ 3dB
Power amp o/p 1 watt into 8 Ω per side	20Hz- 20KHz $\pm$ 3dB

SENSITIVITY @ LINE OUTPUT +4dBu with Master and Channels controls set to MID

Mic/Line	-54/-24dB
Tape in	-6dB
Max Input Level XLR	-9dB
Max Input Level 1/4"	+22dB

CHANNEL EQUALIZATION

Low EQ	100Hz $\pm$ 15dB
Hi EQ	12KHz $\pm$ 15dB

MASTER EQUALIZATION

Low EQ	100Hz $\pm$ 15dB
Mid EQ	1.5KHz $\pm$ 15dB
Hi EQ	10KHz $\pm$ 15dB

MICROPHONE PREAMP E.I.N. (150ohm Terminated, max. Gain)	-102 dBm
POWER REQUIREMENTS	100-120, 220-240 VAC, 50-60 Hz
FUSING	5x20mm glass type, 3.5A/250V for 115VAC, and 2.5A/250V for 230VAC operation, fast-blow fuse
DIMENSIONS (H x W x D)	21" x 15.5" x 15.5" (53.3 x 39.4 x 39.4cm)
WEIGHT	55lbs. (24.9 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.

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.

(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.



NADY SYSTEMS, INC. • 6701 SHELLMOUND STREET, EMERYVILLE, CA 94608
Tel: 510.652.2411 • Fax: 510.652.5075 • www.nady.com