NADY AUDIO

OWNER’S MANUAL

RPA-2 Portable Sound System

RPA-2

2 CHANNEL PORTABLE SOUND SYSTEM
Congratulations on your choice of the NADY AUDIO RPA-2 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-2 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
- 65W RMS @ 4 Ω
- 2 mono balanced (XLR and 1/4" TRS) inputs
- 10" woofer and compression dome tweeter
- Channel Controls - Gain, Reverb, and Contour 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

TABLE OF CONTENTS

FEATURES ................................................................. 2
WARNING ............................................................... 3
INSTALLATION ......................................................... 4
FRONT PANEL CONTROLS & CONNECTIONS .......... 5
REAR PANEL CONTROLS & CONNECTIONS .......... 6
SPECIFICATIONS ..................................................... 7

Date of Purchase ________________________________
Dealer's Name ________________________________
City ____________________  Zip ________________
State ____________________  Zip ________________
Model # __________________
Serial # __________________
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.
To ensure years of enjoyment from your NADY AUDIO RPA-2, please read and understand this manual thoroughly before using the unit.

**INSPECTION**

Your RPA-2 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-2 (verify that the unit's serial number is same as shown on shipping carton)
- AC Power cord
- Warranty Card

**POWER CONNECTION**

The RPA-2 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

(1) GAIN CONTROL
The Gain Control determines the proportion of the channel signal in the mix.

(2) CONTOUR CONTROL
Adjusting this control will contour the audio, either bringing out more highs and definition or increasing low and mid frequencies to provide more punch.

(3) 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-Contour and will be affected by the channel Gain Control.

(4) 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.

(5) 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 (-).

FRONT PANEL

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

(1) GAIN CONTROL
The Gain Control determines the proportion of the channel signal in the mix.

(2) CONTOUR CONTROL
Adjusting this control will contour the audio, either bringing out more highs and definition or increasing low and mid frequencies to provide more punch.

(3) 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-Contour and will be affected by the channel Gain Control.

(4) 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.

(5) 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.)

(6) MASTER — VOLUME CONTROL
This controls the final level of the signal output.

(7) MASTER — REVERB CONTROL
This controls the level of the reverb effects sound.

(8) MASTER — HIGH CONTROL
The control has a shelving response giving 15dB of boost or cut at 12KHz.

(9) MASTER — MID CONTROL
The control has a shelving response giving 15dB of boost or cut at 1.5KHz.

(10) MASTER — LOW CONTROL
The control has a shelving response giving 15dB of boost or cut at 100Hz.

(11) 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.

(12) POWER ON LED INDICATOR
Indicates when the unit is ON.
REAR PANEL CONTROL & CONNECTIONS

(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.

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.

(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, (2.5A/250V for 115VAC, and 1.5A/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-2. The connected speaker impedance must be 8 ohms or greater. The RPA-2 external speaker output delivers 25W RMS of power @ 8 Ohms.

CAUTION: Do not overload the RPA-2 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.

(21) LINE OUTPUT
This 1/4” (6.3mm) audio output is line level, post Master Volume, designed for connecting to external recorders, mixers, or amplifiers.
## SPECIFICATIONS

### AMPLIFIER AND SPEAKER
- **Power**: 65W 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 ±3dB
- **Power amp o/p 1 watt into 8 Ω per side**: 20Hz- 20KHz ±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

### MASTER EQUALIZATION
- **Low EQ**: 100Hz ±15dB
- **Mid EQ**: 1.5KHz ±15dB
- **Hi EQ**: 10KHz ±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, 2.5A/250V for 115VAC, and 1.5A/250V for 230VAC operation, fast-blow fuse**

### DIMENSIONS (H x W x D)
- **20" x 13.5" x 13.5" (50.3 x 34.3 x 34.3cm)**

### WEIGHT
- **41 lbs. (18.6 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.