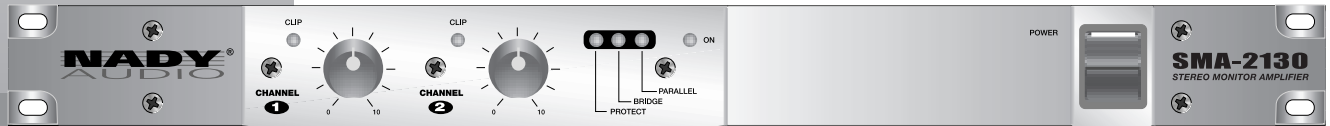


NADY[®]
AUDIO

OWNER'S MANUAL



SMA-2130

STEREO MONITOR AMPLIFIER

SMA-2130

Stereo Monitor Amplifier



Congratulations on your choice of amplifier — you have purchased one of the finest amplifiers 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 SMA-2130 has superior performance and greater flexibility than any other amplifiers 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 amplifier.

FEATURES

Offering superior clean power and performance with full professional operating features in a roadworthy compact 1U rackspace chassis, the SMA-2130 is perfect for even the most demanding studio and reinforcement applications.

- Calibrated 40 detent level controls
- Dual cooling quiet mini-fans for optimum output power
- Stereo / Parallel / Bridged mono operating modes with selector switch
- 1/4" TRS and XLR balanced and unbalanced inputs
- 3 setting input level sensitivity switch
- Binding post and Neutrik Speakon™ outputs; ground-lift switch
- Complete, advanced safety/reliability features: soft-start turn on; noise-free on-off; built-in DC offset protection; independent DC and thermal overload protection on each channel; short circuit and speaker protection; built-in current limiter protection
- ~115V (60Hz)/~230V (50Hz) AC select switch
- Clip LED indicators for each channel
- Bridge and Parallel mode LED indicators
- Protect mode LED indicator
- Durable single rack space (1U) steel casing
- 2 x 130W @4 Ohms, 2 x 70W @8 Ohms
Bridge mono: 220W @ 8 Ohms

CONTENTS

FEATURES2

WARNING3

INSTALLATION4

LEGAL INFORMATION.....4

FRONT CONTROL AND CONNECTORS5

REAR CONTROL AND CONNECTORS6

SPECIFICATIONS.....7

Date of Purchase _____

Dealer's Name _____

City _____

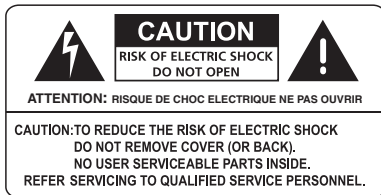
State _____

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 SMA-2130, please read and understand this manual thoroughly before using the unit.

INSPECTION

Your NADY AUDIO SMA-2130 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.

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

CONTENTS

- Instruction manual
- SMA-2130 (verify that the unit's serial number is same as shown on shipping carton)
- AC Power cord
- Warranty Card

RACK MOUNTING

The SMA-2130 fits into one standard 19" rack unit of space (1 3/4"). Parts of the unit can become very warm during use. This is normal during operation. Care should be taken to ensure that there is enough space around the unit for cooling (at least 12" or 30cm). Do not place the SMA-2130 on high temperature devices such as power amplifiers, etc., or the unit may overheat in operation. Also, do not place the unit on speakers as this may cause them to move and/or fall due to speaker vibrations.

Although the unit's chassis is shielded against radio frequency (RF) and electromagnetic interference (EMI), extremely high fields of RF and EMI should be avoided.

POWER CONNECTION

The SMA-2130 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 headphones.

LEGAL INFORMATION

NOTICE

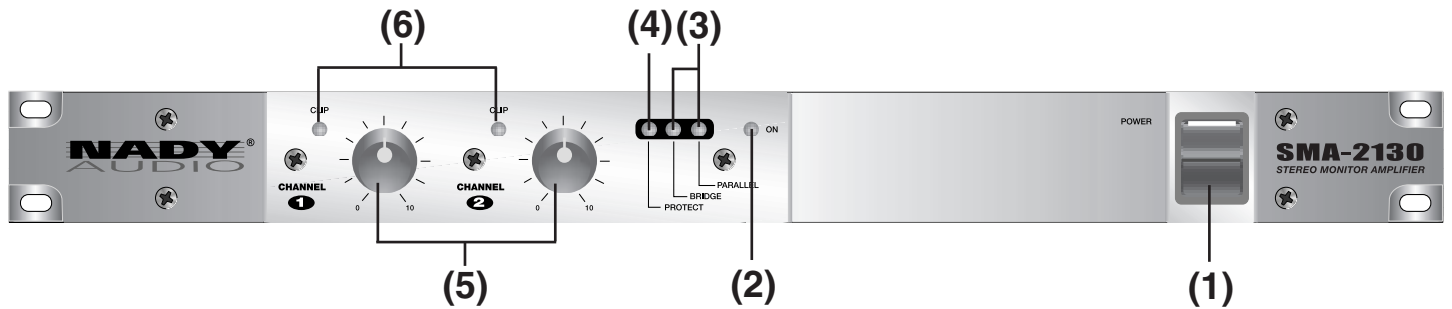
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FRONT CONTROLS AND CONNECTIONS



1. POWER SWITCH

To turn the unit ON or OFF, press the upper or lower portion of this button.

CAUTION: Always turn on your power amplifier last, after all your other connected equipment, and always turn off your power amplifier before your other connected equipment.

2. POWER LED INDICATOR

Lights when the unit is on.

3. BRIDGE / PARALLEL INDICATORS

These indicators will light when the corresponding mode of operation is selected with the mode selector switch. No light means the unit is in Stereo mode.

4. PROTECTION LED INDICATOR

This LED illuminates when the unit is overheated, or when a shorted load or DC is detected at the amplifier output. When this LED lights up, turn OFF the power and check the

output's connection to verify that it is correct, then turn ON the power again. The amplifier will reset itself when the problem is corrected. This LED will also light briefly when the unit is powered on.

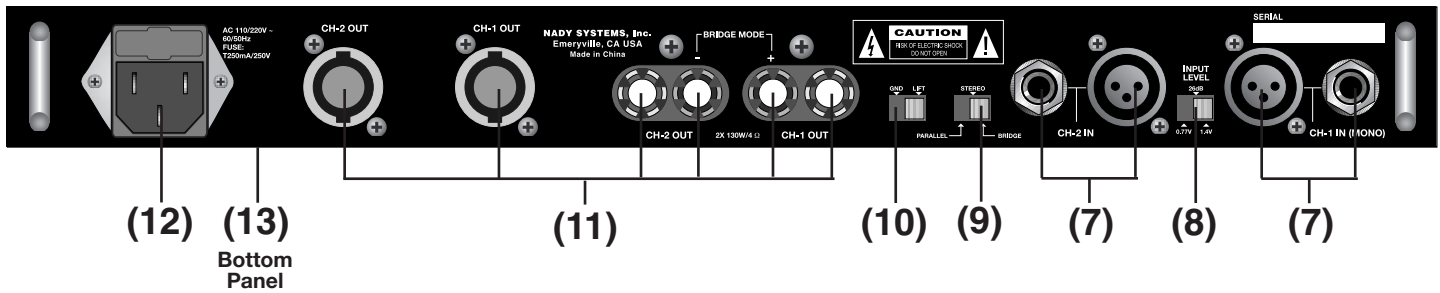
5. LEVEL CONTROLS

These control the level of signal coming into each channel. Turn these controls counterclockwise if the peak LEDs illuminate steadily (indicating too strong an input signal). To be safe, it is also suggested these controls be turned fully counter-clockwise before powering on the unit, in case there are any loud input signals.

6. CLIP LED INDICATORS

These LEDs illuminate if any section of the power amplifier's output is within 3dB of clipping. Occasional blinking of these LEDs is acceptable, but if they remain on more than intermittently you should turn down either the amplifier's level control or reduce the output level of the preceding component to avoid audible distortion.

REAR CONTROLS AND CONNECTIONS



7. BALANCED INPUT CONNECTORS (1/4" TRS & XLR)

These 1/4" (6.3mm) TRS (Tip/Ring/Sleeve) phone jacks and XLR jacks are compatible with balanced inputs and are wired as Tip/Pin 3 = (-), Ring/Pin 2 = (+), and Sleeve/Pin 1 = Ground. Input impedance is 14K Ohms.

Since the channel TRS phone jacks and XLR jacks are wired internally in parallel, you can parallel this unit with another amplifier by using either the LINE 1/4" jack or the XLR jack (depending on which you're using to input your signal) to output the signal to the input jack of the other amplifier.

The 1/4" TRS phone jacks can also be used for unbalanced inputs. For TRS phone plugs, simply connect the unused side of the balanced input to ground. For 1/4" TS phone plugs, no change is necessary for compatibility with this input. Balanced input signals are recommended as they are less prone to AC hum. For long cable runs a source of less than 600 ohms output impedance is needed to avoid signal loss. For short cable runs an unbalanced signal input should be suitable.

(Note: Do not use both unbalanced and balanced cables in the same set-up as that can unbalance all the connections when daisy-chaining, resulting in hum.)

For stereo (two-channel) operation, use the inputs for both Channel 1 and Channel 2; for parallel or bridged mono operation, use only Channel 1 input. (**See 9. MODE SELECTOR SWITCHES** below for more explanation.)

8. INPUT LEVEL SWITCH

Sensitivity slide switch offers 3 sensitivity inputs of operation; 0.77 volts, 1.0 volts & 1.44 volts.

9. MODE SELECTOR SWITCH

The SPA Series amplifiers offer 3 modes of operation: PARALLEL, STEREO & BRIDGED. Slide the switch to one of the three positions for your application.

- **PARALLEL (MONO) INPUT** — This mode allows both channel outputs to operate in parallel with the same signal. In this mode, use channel 1 input and Level Control to operate Channel 1 and Channel 2 Speaker Outputs. Channel 2 input is not operational.

- **STEREO INPUT** — This is the most common mode generally used, and allows independent control of 2 separate signals such as stereo, main and monitor live mixes, and bi-amp operation (highs in one channel and lows in the other).

- **BRIDGED MONO** — This mode combines the power of both channels to drive a single speaker. Connect the input signal to Channel 1 input for bridged mono operation. When in Bridged mode, use the red binding post (banana jack) outputs only. If Channel 1 and Channel 2 outputs are used, the Speakers will be out of phase.

(CAUTION: This amplifier can deliver high power into a speaker. Make sure that the speaker can handle the power output of this amplifier)

10. GROUND LIFT SWITCH

Switch to disconnect the chassis from ground if necessary to eliminate hum caused by ground loops.

11. SPEAKER OUTPUT CONNECTORS

Speakon™ and binding post (banana jack) outputs are compatible with a speaker load of 4ohms or greater (8 ohms or greater for bridged operation). Do not use less than an 8 Ohm load when in Bridged mode. Connections are as depicted on the rear panel.

12. FUSE HOLDER & POWER CORD CONNECTOR

This fuse holder contains an AC primary fuse. When this fuse blows, replace it with the same type fuse, size and power rating (see **SPECIFICATIONS**). If it continuously blows, stop replacing the fuse and refer servicing to qualified personnel. The cord connector is used to connect the AC power source to your power amplifier.

(CAUTION: After checking the AC supply voltage, be sure that the correct fuse is in the fuse holder.)

CAUTION: DO NOT REMOVE THE AC PLUG CENTER GROUNDING PIN.

13. INPUT VOLTAGE SELECT SWITCH (BOTTOM PANEL)

Select 115V/60Hz or 230V/50Hz as appropriate for your area.

*(CAUTION: Selecting the wrong voltage can damage your unit. See also **POWER CONNECTION**, pg 6)*

SPECIFICATIONS

POWER SPECIFICATIONS

EIA Output Power RMS	8Ω	70W + 70W
1kHz, THD maximum 1%	4Ω	130W + 130W
	8Ω Bridged	220W

Less than 8Ω Bridged or 4Ω Per Side is not recommended.

ELECTRICAL SPECIFICATIONS

INPUT SENSITIVITY	.....0.77V/26dB/1.4V
INPUT IMPEDANCE	.....20KΩ Unbalanced & Balanced
FREQUENCY RESPONSE	.....10Hz~50KHz +/-3dB
MAXIMUM INPUT LEVEL	.....21dB/6V
DAMPING FACTOR (f=1KHz 8Ω)	.....>150
SLEW RATE	.....35V/uS
DISTORTION	.....<0.04%
S/N RATIO A-Weighted RMS	.....>80dB
POWER SUPPLY	.....Voltage selectable 110-120V or 220~240V AC 50/60Hz
FUSES	.....Standard IEC receptacle with built-in fuse holder
	115VAC ~ 5A/250V
	230VAC ~ 3A/250V

GENERAL SPECIFICATIONS

PROTECTION	.....Full short circuit, current limited, DC fault, AC line fuse, thermal, Power on/off transients,
FRONT PANEL	.....Power switch, Channel 1 and Channel 2 Level controls
REAR PANEL	.....Stereo/Bridge/Parallel selector, Input Level selector,
LED INDICATORS	.....Channel 1 and Channel 2 Clipping, Protect, Bridge, Parallel, Power
POWER	.....IEC power cord jack
INPUTS	.....Active balanced XLR and 1/4" (6.3mm) TRS
OUTPUTS	.....Binding posts/Banana jack, Speakon
DIMENSIONS (WXDXH)	.....19" x 9.84" x 1.73" (483 x 250 x 44mm)
WEIGHT	.....18.25lbs. (8.28Kg)

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.



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