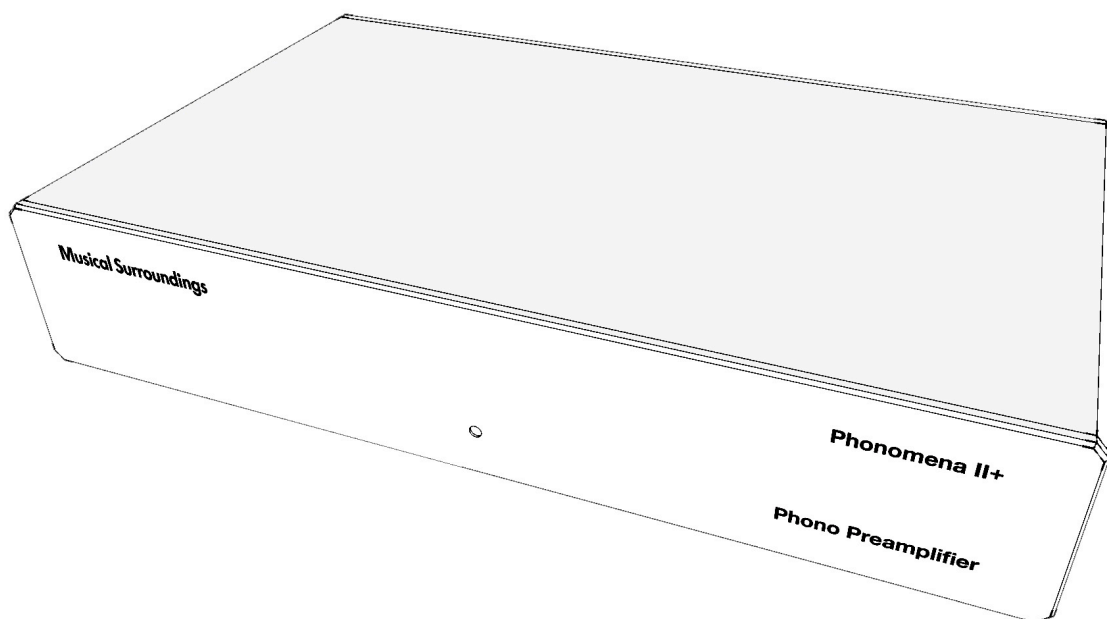


*MUSICAL SURROUNDINGS PRESENTS:*

# ***THE PHONOMENA II +***

*PHONOGRAPH PREAMPLIFIER*



*OWNER'S MANUAL*

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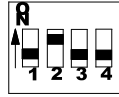
## **1.0) INTRODUCTION**

The Phomena II+ is a complete phonograph preamplifier with RIAA equalization that amplifies the output signal of a phonograph cartridge up to a nominal "line level". It is a discrete, dual-mono design, designed and made in the USA. The Phomena II+ may be used with either moving-coil or moving-magnet cartridges. Its flexibility in gain and loading settings lets you optimize the performance of your phono cartridge and match volume levels with other source components in your system. The Phomena II+ can be connected to a receiver or an integrated amplifier. If you use separate components, a line level control unit (preamplifier) is required before the power amp, since there is no volume control on the Phomena II+. The Phomena II+ internal power supply connects to an AC outlet with the supplied wall-mount transformer.

Installation and set-up of the Phomena II+ is quite simple. It involves:

- a.) Setting the four external configuration settings (two for each channel) for Gain and Input Loading (see section 2).
- b.) Connecting to an AC power outlet with the supplied wall-mount transformer (see section 3).
- c.) Connecting the Audio Inputs and Outputs (see section 4)
- d.) Placing the unit (see section 5).

## 2.0) EXTERNAL CONFIGURATION SETTINGS



### 2.1) BASIC GAIN SETTINGS

To Set the Gain, there are two sets of four dip switches, located on the Phenomena II+ back panel (one set each for the left and right channels). Refer to your phonograph cartridge's instruction manual for the suggested Gain setting. Factory Settings are always 40dB for Gain.

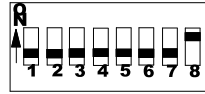
Lower Gains (40 and 44dB) are effective for moving-magnet cartridges or very high output moving-coil cartridges (>2.0mV). Medium Gain settings (46 and 50dB) are ideal for medium-output moving-coils (.9-1.5mV). High Gain settings work well with low-output moving-coil cartridges. To change settings, use a non-metallic object to push the switches UP for the ON position.

2.2) GAIN SETTINGS CHART

SWITCH #	1	2	3	4
GAIN (dB)				
40	OFF	OFF	OFF	OFF
44	OFF	OFF	OFF	ON
46	OFF	OFF	ON	OFF
48	OFF	OFF	ON	ON
50	OFF	ON	OFF	OFF
51.5	OFF	ON	OFF	ON
52.7	OFF	ON	ON	OFF
53.7	OFF	ON	ON	ON
56	ON	OFF	OFF	OFF
57.5	ON	OFF	ON	ON
58.4	ON	OFF	OFF	ON
59.4	ON	ON	ON	OFF
60	ON	ON	ON	ON

Always let the unit settle for 60 seconds after any configuration changes are made before listening. Slowly raise the volume after making any change. This will ensure that the unit is stable and will not damage your system if the configuration is not set correctly. You can select gain settings to more closely match your turntable to other source components in your system.

## 2.3) BASIC INPUT LOADING SETTINGS



### INPUT LOADING SWITCH

To set the Input Loading, there are two eight-position switches, one for each channel, located on the rear panel. Refer to your cartridge owner's manual to determine proper Input Loading settings. The factory setting for Input Loading is 47,000 (47k) Ohms.

Switch #1 controls capacitive loading, which is used with moving-magnet cartridges and has little effect on moving-coil cartridges. When using a moving-coil cartridge, try both capacitive loading positions to determine the effect. CAPACITIVE LOADING (SWITCH #1): OFF=200pF; ON=300pF.

Switches #2-8 control resistive loading, which is primarily used with lower output moving-coil cartridges. Most moving-magnet along with medium and high-output moving-coil cartridges use 47,000 Ohms. Low-output moving-coil cartridges typically use 2000 Ohms or less. Resistive loading at 10x the internal impedance of the cartridge is the recommended lowest loading. Check the chart below and select the lowest Input Loading value in the cartridge manufacturer's recommended loading value range. A lower resistive setting provides increased focus and tighter bass, while a higher setting provides more openness. Use a non-metallic object to select the preferred settings, pushing the switch UP to activate the ON setting.

**INPUT LOADING SWITCH CHART**

SWITCH #	1	2	3	4	5	6	7	8
LOADING (Ohms)	200pF 300pF							
30	X	ON	ON	ON	ON	ON	OFF	OFF
40	X	ON	ON	OFF	OFF	OFF	OFF	OFF
50	X	ON	OFF	OFF	ON	ON	OFF	OFF
59	X	ON	OFF	OFF	OFF	OFF	OFF	OFF
80	X	OFF	ON	ON	OFF	OFF	OFF	OFF
100	X	OFF	ON	OFF	OFF	ON	ON	OFF
121	X	OFF	ON	OFF	OFF	OFF	OFF	OFF
150	X	OFF	OFF	ON	ON	OFF	ON	OFF
243	X	OFF	OFF	ON	OFF	OFF	OFF	OFF
280	X	OFF	OFF	OFF	ON	ON	ON	OFF
380	X	OFF	OFF	OFF	ON	OFF	ON	ON
475	X	OFF	OFF	OFF	ON	OFF	OFF	OFF
660	X	OFF	OFF	OFF	OFF	ON	ON	ON
1000	X	OFF	OFF	OFF	OFF	ON	OFF	OFF
2,000	X	OFF	OFF	OFF	OFF	OFF	ON	OFF
47,000	X	OFF	OFF	OFF	OFF	OFF	OFF	ON
100,000	X	OFF	OFF	OFF	OFF	OFF	OFF	OFF

### **3.0) POWER SUPPLY**

The Phenomena II+ connects to a wall outlet or power strip with the supplied wall-mount transformer. The unit will not operate without the wall-mount transformer.

### **4.0) INPUTS AND OUTPUTS**

Please make sure that the volume control on your receiver, integrated amp, or pre-amp is turned completely down before plugging in the audio connections. Connect the phonograph cables of your turntable to the inputs of the Phenomena II+, noting proper left and right connections. Attach the turntable's ground lead to the ground lug on the rear panel of the unit.

Using a high-quality interconnect cable, connect the outputs from the Phenomena II+ to the line-level input of your receiver, integrated amplifier or pre-amp, again noting proper left and right channels. **DO NOT PLUG THE PHENOMENA II+ OUTPUT INTO A "PHONO" INPUT.** Use the standard LINE IN jacks, as phono jacks include special circuitry that is not needed when using an external phonograph preamplifier.

### **5.0) UNIT PLACEMENT**

The Phenomena II+ may be placed under your turntable if space allows, on a separate shelf in your audio rack, or on top of another source or line-level component. Please make sure that ventilation to the unit is not restricted, and that the unit is away from magnetic fields or noise from other components' motors, transformers, digital circuitry, or displays.

### **6.0) USING YOUR PHENOMENA II+**

If you have followed the above instructions, you are ready to play music. Simply cue down your cartridge on a favorite record, select the correct input on your receiver, integrated amp or pre-amp, slowly bring up the volume level, sit back and enjoy the music.

## **7.0) WARRANTY INFORMATION**

Return the enclosed warranty card to us within 30 days with a copy of your sales receipt and the Phonomena II+ will be fully warranted against failure for three years after purchase. The warranty covers parts and labor only; damage due to improper use, modifications or acts of nature are not covered. We do not assume any liability for any damage to any other component in the system due to a failure in the Phonomena II+. If you believe your unit is malfunctioning, please contact the dealer where you purchased the unit or contact:

Musical Surroundings

Telephone: (510) 547-5006 (x-101)

Fax: (510) 547-5009

Email: [service@musicalsurrroundings.com](mailto:service@musicalsurrroundings.com)

If the unit is not behaving as expected, and needs to be returned for repair, contact Musical Surroundings at the above number and you will be issued you a Return Authorization (RA) number. You must then send the unit (packed in its original box) back to Musical Surroundings.