

Phonomena Users Manual

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1.0 INTRODUCTION

The Phenomena is a unit that amplifies either moving coil cartridge signals or moving magnet cartridge signals up to a nominal “line level”. A line level control unit (preamp or line level unit) is still needed before the power amp since there is no volume control on the Phenomena. The Phenomena uses either a wall mount transformer for a power source or a Phenomena Battery Supply.

The installation of the Phenomena involves the connection of the power source, and the setting of the two internally programmable functions for both channels; gain and input loading. And of course, the inputs and outputs must be connected.

2.0 INTERNAL CONFIGURATION SETTINGS

Note: Always let the unit settle for 60 seconds after any configuration changes are made before listening. Always slowly raise the gain volume control after making any changes, this insures the unit is stable and will not damage your system if the configuration is not set correctly.

2.1 GAIN SETTINGS

To set the gain, there are two dip switches (S1, S3) to set, one for each channel. The switches have 4 positions and are located closer to the front panel. Lower gains (40dB) are intended for moving magnet cartridges or very high output moving coil cartridges. Higher gains are intended for use with low output moving coil cartridges (0.5 milliVolts or so).

SWITCH NUMBER

<u>GAIN (DB)</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
40	OFF	OFF	OFF	OFF
43.5	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
55.6	ON	OFF	OFF	OFF
56.3	ON	OFF	OFF	ON
56.9	ON	OFF	ON	OFF
57.5	ON	OFF	ON	ON
58.4	ON	ON	OFF	OFF
58.9	ON	ON	OFF	ON
59.4	ON	ON	ON	OFF
59.9	ON	ON	ON	ON

- refer the cartridge manufacturer's data for gain and input loading, if no information exists use the information above as a starting point.

INPUT LOADING

To set the input loading, there are two 8 position switch packs (S2, S4) located close to the input/output terminals.

- see the input loading chart and select the closest input loading value to the manufacturer's recommended value. Set the switches accordingly.
(Most moving magnet cartridges use approximately 50K Ohm and moving magnet cartridges use 1000 Ohms or less.)
- The capacitive load is swithable: switch 1 off – 200pF, switch 1 on – 300pF.

INPUT LOADING CHART

<u>Ohms</u>	<u>SWITCH NUMBER</u>						
	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
31	on	on	on	on	on	off	off
32	on	on	on	on	off	off	off
33	on	on	on	off	on	off	off
34	on	on	on	off	off	off	off
35	on	on	off	on	on	on	off
36	on	on	off	on	off	on	off
38	on	on	off	off	on	on	off
40	on	on	off	off	off	off	off
41	on	off	on	on	on	on	off
43	on	off	on	on	off	off	off
45	on	off	on	off	on	off	off
48	on	off	on	off	off	off	off
50	on	off	off	on	on	off	off

<u>Ohms</u>	SWITCH NUMBER						
	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
53	on	off	off	on	off	off	off
56	on	off	off	off	on	off	off
60	on	off	off	off	off	off	off
64	off	on	on	on	on	off	off
68	off	on	on	on	off	off	off
74	off	on	on	off	on	off	off
80	off	on	on	off	off	off	off
87	off	on	off	on	on	off	off
91	off	on	off	on	off	on	off
96	off	on	off	on	off	off	off
101	off	on	off	off	on	on	off
107	off	on	off	off	on	off	off
113	off	on	off	off	off	on	off
120	off	on	off	off	off	off	off
129	off	off	on	on	on	on	off
137	off	off	on	on	on	off	off
148	off	off	on	on	off	on	off
160	off	off	on	on	off	off	off
176	off	off	on	off	on	on	off
193	off	off	on	off	on	off	off
214	off	off	on	off	off	on	off
240	off	off	on	off	off	off	off
279	off	off	off	on	on	on	off
322	off	off	off	on	on	off	on
384	off	off	off	on	off	on	on
480	off	off	off	on	off	off	off
658	off	off	off	off	on	on	on
1000	off	off	off	off	on	off	off
2000	off	off	off	off	off	on	off
50,000	off	off	off	off	off	off	on
100,00	off	off	off	off	off	off	off

3.0 POWER SUPPLY INSTALLATION

The unit is either powered by the Phenomena Battery Power Supply or a Wall Mount Transformer.

The Phenomena is intended to be left with the power **ON** when not in use. Most high fidelity equipment needs to “warm up” to sound the best, one hour is a minimum for the Phenomena. The unit does not need to be powered off during reconfiguration, however, be careful not to short out any of the electronics when the cover is off. There are no high voltages inside the unit (30 volt maximum differential).

INSTALLATION:

- hook up the Phenomena Battery Power Supply or Wall Mount Transformer to the “Power” connector.
- Plug the remote power supply or Wall Mount Transformer to the wall circuit.
- Verify that the power LED on the Phenomena lights.

4.0 INPUTS AND OUTPUTS

- connect inputs to the turntable and the relative outputs to a line level input to the preamp or line level control unit in your system.
- connect the ground lead from the turntable to the ground lug on the Phenomena.

5.0 WARRANTY INFORMATION

Fill out the warranty card enclosed and return it to us within 30 days. The unit is fully warranted against failure for one year after purchase. Damage due to improper use or modifications not in accordance to this manual is not covered under this warranty. This warranty covers parts and labor only. We will not assume any liability for any damage to any other component in the system due to a failure in the Phonomena.

If repair work is needed, send the unit, a description of the problem and a photo-copy of the sales receipt to **Musical Surroundings, 6169 Harwood Ave., Oakland, CA 94618**. The unit will be shipped freight collect after repair.