

To Our Much Valued User,

Thank you for purchasing the PFE-1, we are certain that it will bring you much listening pleasure. The technology for this product was nearly a decade in the making. We have carefully designed to consistently carry out our philosophy, which is to present all the musical texture and all the definition that is possible for electronics to reproduce. All of this, while still being very pleasant to listen to.

The Staff at Michael Yee Audio

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1.0 INTRODUCTION

The PFE-1 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 PFE-1. The PSU-1 is the power supply unit which powers the PFE-1.

The installation of the PFE-1 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 have the cartridge connected to the PFE-1 when testing the configuration. 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 (S3, S4) 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.

2.2 INPUT LOADING

To set the input loading, there are two 8 position switch packs (S1, S2) 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 less than 1000 Ohms.)

INPUT LOADING CHART

LOADING (Ohms)	<u>SWITCH NUMBER</u>							
	1	2	3	4	5	6	7	8
15	on	on	on	on	on	on	off	off
16	on	on	on	off	on	on	off	off
17	on	on	on	off	off	off	off	off
18	on	on	off	on	off	on	off	off
19	on	on	off	off	on	off	off	off
20	on	on	off	off	off	off	off	off
21	on	off	on	on	off	on	off	off
22	on	off	on	off	on	on	off	off
23	on	off	on	off	off	on	off	off
24	on	off	on	off	off	off	off	off
25	on	off	off	on	on	off	off	off
26	on	off	off	on	off	on	off	off
27	on	off	off	off	on	on	off	off
28	on	off	off	off	on	off	off	off
29	on	off	off	off	off	on	off	off
30	on	off	off	off	off	off	off	off
31	off	on	on	on	on	on	off	off
32	off	on	on	on	on	off	off	off
33	off	on	on	on	off	on	off	off
34	off	on	on	on	off	off	off	off
35	off	on	on	off	on	on	on	off
36	off	on	on	off	on	off	on	off
38	off	on	on	off	off	on	on	off
40	off	on	on	off	off	off	off	off
41	off	on	off	on	on	on	on	off

3.0 POWER SUPPLY INSTALLATION

The unit is powered by the PSU-1 a remote power supply.

The PFE-1 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 PFE-1. 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 (36 volt maximum differential).

INSTALLATION

- hook up the power supply unit cable to the appropriate connectors.
- Plug the remote power supply into the wall circuit.

4.0 INPUTS AND OUTPUTS

The two channels are identical so no left and right channel designation is defined.

- 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 PFE-1.

5.0 GROUNDING OPTIONS

The PFE-1 is shipped from the factory with the grounds of both channels connected together through the chassis. If it is desired, one or both channels can be isolated from the chassis. This is to be done only if there is a grounding problem, and only by a person knowledgeable about grounding. The board is grounded to the chassis by the two mounting screws (with external tooth washers) on the left side of the unit (viewed from the front). Isolating washers can replace the external tooth washer(s) if isolation for that channel(s) is required. If there is a grounding problem, it is probably not in the PFE-1 since this is the ideal place to ground both channels together in a dual mono system. However, we offer the ability to easily change the grounding system due to other components or complications in the system.

6.0 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 PFE-1.

If repair work is needed, send the unit, a description of the problem and a photo-copy of the sales receipt to **Michael Yee Audio, 101 E. Alma St. #207, Mt. Shasta, CA 96067**. The unit will be shipped freight collect after repair.

7.0 OTHER INFORMATION

The components we use are fully tested for sonic purity. There are some ceramic disc capacitors used in the circuit, these are used for their excellent radio frequency characteristics and are essential for radio frequency rejection and amplifier stability. The transistors we use are carefully selected for proper operation. In other words, we do not recommend that the user make any changes to the circuit other than those previously described.