

Please read this manual carefully.

We have written it in a very concise form so that you can immediately set up and use your pre-amplifier correctly.

In fact, you can read each section and follow the directions as you set up. Upon completion of set up you will know how to operate the 24K.

Phono Section

Prior to making adjustments for the moving coil section, please be certain the pre-amplifier is NOT plugged into an A.C. outlet.

If you are using a moving magnet or high output moving coil, it is set up properly at the factory, and you will not need to alter the inside switches. Please continue to the next section - Power Supply.

If you are using a low output moving coil, please read the following:

Soldered onto the circuit board are 3 switches for moving coil adjustments. To access them be sure the pre-amp is unplugged from the A.C. outlet, remove the screws from the top cover, and you will notice 2 switches with 9 positions on the right side of the circuit board. Closer to the center is a single 2 position switch. For moving coil gain, the 2 position switch should have both tabs depressed towards the left (C1 & C3).

The 2 switches on the right adjust loading for the two channels. therefore the adjustments should be identical on both.

Each switch, from 1 to 8 will present the following load:

1	10 ohms	5	249 ohms
2	25 ohms	6	475 ohms
3	47 ohms	7	825 ohms
4	100 ohms	8	1000 ohms

Check with the moving coil manufacturer as to what load is recommended. You will notice that the volume will decrease as you lower the load. i.e. 10 ohms will have less gain than 47,000 ohms.

By combining switches you can create different loads. To know what load you are creating, multiply the two values, then add the two values, then divide the added value into the multiplied value to determine the resistance.

Example: switch 4 = 100 ohms
switch 6 = 475 ohms

$$\begin{array}{r} \text{Multiply} \quad 47,500 \\ \text{Add} \quad \quad \quad 575 \\ \hline \end{array} = 82.6 \text{ ohms}$$

Therefore when switches 4 and 6 are depressed the load is 83 ohms.

Power Supply

1) Connecting the Supply

Do not plug the power supply into the A.C. outlet until it is plugged into the pre-amp. The power supply plugs into the pre-amp on the far right of the rear panel via the XLR connector labeled power. The male connector of the power supply is designed to be connected with the push pin lock in the center top position. For safety purposes it will only make connection when inserted properly.

2) Positioning the Supply

The power supply may be placed on the floor in any convenient location. If you wish to place it on a shelf, be sure it is at least 12 inches from the nearest component.

Input Connectors

Before inserting or removing connectors be certain both the pre-amp and power amp are not on.

The layout and labeling of input connectors on the rear panel were designed for the utmost in ergonomic convenience.

Standing at the rear of the pre-amp you can read the intended source of each connector labeled directly beneath it.

Standing at the front of the pre-amp (leaning over the top) you can read the intended source of each connector labeled directly above it.

Output Connectors

Connect the input of your tape players to the tape outputs of the pre-amp.

Connect the input of your amp to either pre-amp output connector. Two pre outs are provided to facilitate the use of 2 power amps if desired.

Controls

From left to right

1. Off - On - Mute Switch

- a. *The OFF position is far left. When the pre-amp is off, idle current is passed through the circuitry to maintain proper operating temperature for optimum sonic quality.*
- b. *The ON position allows you to listen to the selected source. LED will remain on.*
- c. *The MUTE position silences the pre-amp thereby allowing you to answer the phone, change sources, etc.... LED will remain on.*

2. Listen Switch

By rotating the knob you select the source for listening, counter clockwise from left, the sequence is;

Tuner, CD, Phono, Tape 1, Tape 2, Aux

3. Record Switch

By rotating the knob you select the source you wish to record from. Counter clockwise from left the sequence is;

Aux, Tape 2, Tape 1, Phono, CD, Tuner

This allows you the convenience of listening to one source while recording from another.

4. Volume Control

To increase volume, gradually rotate from left to right. At any given position of the volume control the actual volume may differ from source to source. Therefore prior to changing source or recording we suggest you fully lower the volume control and re-adjust to desired listening level.

5. Balance Control

Rotating the balance control to the left will increase the prominence of sound from the left speaker, while decreasing prominence of sound from the right speaker.

Rotating the balance control to the right will increase the prominence of sound from the right speaker, while decreasing prominence of sound from the left speaker.