MULTI

BLACET RESEARCH 2210
Multiple/Attenuator Module
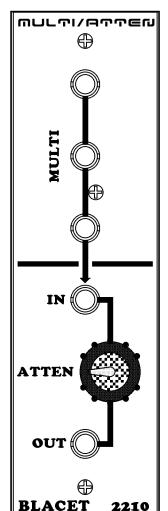Users Manual

Using the 2210

The 2210 has two separate or combined functions. The top section is a **multiple** or three jacks connected together. This is used when you need to send a module **output** to more than one module **input**. Connect to any of the **MULTI** jacks.

Note that you cannot connect more than one module output to the multi as they will short out. This will not damage the 2210 or your other modules, but may cause extra power dissipation and audio pops.

The second section contains a passive **attenuator**, allowing you to send any level of the signal present at the **IN** jack to the **OUT** jack.

A second feature of the attenuator normals the multi jacks to the **IN** jack when nothing is plugged into the **IN**. This gives you the option of having two (unattenuated) multi out jacks along with one attenuated multi out via the **OUT** jack.

For example, you might have one pitch voltage from a MIDI to CV converter and want to connect it to two VCOs and an Final Filter. This can easily be done with the 2210. Plus, you can use the attenuated out for the FF to alter the harmonics with each note.

The 2210 is direct coupled and can be used for any audio, gate or CV signal in the +/- 10V range.

Kit Assembly

We advise Kester 245 solder for the whole board. This is the "no clean" type so you don't have to worry about contaminating the jacks or pots with flux.

All parts go on the component side of the board.

Start with the jacks, soldering the center lug, then making sure the jack is sitting flat on the board before doing the other pins.

Install and solder the resistor.

Install the pot. Solder one mounting leg and then make sure the pot is flat on the board. Reheat the leg if necessary and then finish soldering the other pins.

Install the angle bracket with the 4-40 screw and nut. Note that the threaded portion is not used here. The nut should go on the top of the PCB. Leave the screw a bit loose.

Mount the PCB to the front panel with a 4-40 screw and with the pot mounting washer and hex nut. Tighten the screw and nut previously used to mount the angle bracket.

Push on the knob.