

INSTALLING DETENTED GAIN CONTROLS ON A MASSIVE PASSIVE EQ

- 1- Unplug unit from power outlet on wall. Allow unit 10 minutes to drain voltages off the power supply
- 2- Take off top and bottom cover metal grill. With a Phillips screwdriver take out single screw top and bottom located towards the back of unit.
- 3- In order to install the new detented gain control boards the low pass and high pass filter cards need to come out of the unit. The current gain controls (potentiometers) are mounted on these two cards.
- 4- Start by pulling out all of the 8pcs EQ cards, using a 3/32" Allen hex driver remove the 2 Allen screws per card. Disconnect the ribbon cable connector in each card located at the front of the card right behind the front panel. Card should come out now just by pulling on it. Note the 14 pin male connector on the back of each card, when putting all the cards back in place make sure this 14 pin male connector aligns and connects with the 14 pin female connector. It is possible to get the card in the wrong way or position, make sure it goes back correctly.
- 5- Now take the low/high pass filter cards out. This is the complicated mechanical part of the process. Using a 1/16" Allen hex driver remove the 6 knobs (gain, low pass, high pass). Using a 1/2" driver take out the 6 nuts behind these knobs. Then we need to loosen up the power switch extension rod. There is a metal coupler holding the extension rod and the power switch. The actual power switch is mounted on the power supply board (located dead center back of the unit) using a 1/16" Allen hex driver loosen up the screw that holds the extension rod side. Then pull power extension rod toward the front of the unit.
- 6- We are almost ready to pull these two cards out. Using a 3/32" Allen hex driver loosen up like half way or 3/4 of the way out the 12 screws holding the front panel. Then pull on the front panel so the cards get loose from the 14-pin male connector in the back of each card.
- 7- Once the high pass and low pass filter card are loose they need to come out from the **bottom** of the unit. Carefully maneuver the card towards the bottom of unit so they can come out.
- 8- Notice that all is left once the cards came out, are the two in/bypass switches. There is a little board in the back of the switches where wires are connected, this board make be on the way obstructing the easy accommodation of the new detented gain controls boards. You may want to try installing the new boards and see if they are going to be on the way. Usually you will need to loosen up the in/bypass switches a bit and turn the little boards 90 degrees that will give you enough room to accommodate the new boards.
- 9- Now grab your soldering iron and your desoldering tool or solder-wick. Take out the two gain control potentiometers mounted on the filter cards, making sure you do not damage in the process the pads or traces on pc-board. Note that on the back of the gain control potentiometers there are numbers that correspond to each pin in the pot. Before pulling the pot out look which pin goes in which hole.
- 10- The new detented gain control boards come with three wires these three wires correspond to the three pins on the potentiometers. We use the resistor color code to identify these three wires: Brown = one, Red = two, Orange = three.
- 11- Solder the new detented gain control board wires to the filter cards following the instructions in step above.
- 12- That's it.. work your way backwards to put everything back in place.
- 13- No other adjustments should be needed.