

# Procedure For Modifying Mod. Control Unit

- 1.) Remove top and bottom panels, (save).
- 2.) Remove front panel, (save screws and handles).
- 3.) Remove transformer, located so side panel.
- 4.) Remove all 8 PC boards (save), remove all screws that hold the green edge cardholders on.
- 5.) Extract all pins and sockets from burndys, on rear panel, except for the interlocks. Desolder the wires for the interlocks at the box located on the inside of rear panel.
- 6.) Remove all twinax and BNC connectors from rear panel.
- 7.) Desolder wires that run to 5V and 48V P.S.. Now you can remove old wire harness.
- 8.) Remove right side panel, (looking from front), saving hardware.
- 9.) Remove the 4 scanbe stops, located on aluminum rails, remove all cardholders and spacers. When you get to the bottom stops, need to be turned around, so all the screws face the top of control unit.
- 10) First replace edge cardholder, number 1 if labeled, then you need 2 -3/4" scanbe spacers per rail. Then edge cardholder, then spacers, and so on. You will not have enough 3/4" spacers, more provided. You will end with the 5<sup>th</sup> cardholder, now put the last 4 stops on, facing screws towards top.
- 11) Screw motherboard onto card holders, you will need 1/2"4-40 screws, provided. Now slide the 5 new PC cards into correct card slots, this insures card alignment. Now adjust motherboard so you have approximately the same spacing between power supplies. Now tighten down the scanbe stops.
- 12) Install new solder style BNC and TWINAX connectors on rear panel. BNC connectors will have one washer on outside, with one solder tab on inside, then nut. TWINAX will have two washers, inside and outside, then nut. Washers and rear panel diagrams provided.
- 13.) Plug all ribbon cables into motherboard, P7 can be plug into front panel and front panel can be screwed onto chassis, with the handles installed. The other ribbon cables need to be either inserted or soldered into proper connector, see wiring diagram.
- 14.) Insert power connectors onto motherboard, (P-14 yellow, green), (P-6 red, green). Then solder to power supplies. The 5V supply gets the red wire soldered to + OUT, the green wire gets soldered to the - OUT. The 48V supply gets the yellow wire soldered to the + OUT, the green gets soldered to the OUT, along with a black wire to ground.
- 15.) Put new label on rear panel, (Ext. Interlock), on bottom BNC.
- 16.) Replace top and bottom covers.