Stanford Research Systems

Installation of 35 Volt option board into DG535

TOOLS NEEDED: **11/14/97**

½ inch open end wrench
Soldering iron
Needle nose pliers
Phillips head screwdriver
Desoldering tool

INSTRUCTIONS:

1. Install 5 bnc connectors on rear panel of main unit. Lugs are installed on the bnc's marked "A","B" and "C". Washers are used on "T0" and "D".
2. Desolder the thru holes for J2, found near the front on the solder side of the bottom pc board. Insert 14 pin connector and solder from component side of the bottom pc board.
3. There are 5 wires soldered underneath the option board. Each wire must be soldered onto the main pc board.
   A. The wire for "T0" is soldered into a round thru hole labeled " T0" located underneath U102 on bottom pc board.
   B. The wire for "A" is soldered into a round thru hole labeled "A" near U305.
   C. The wire for "B" is soldered into a round thru hole labeled " B" located to the left of U303.
   D. The wire for "C" is soldered into a round thru hole labeled "C" located above U306.
   E. The wire for "D" is soldered into a round thru hole labeled "D" located above U303.
   F. After all wires have been soldered into their respective thru holes, secure the option board to the rails of the DG535 chassis with the 2 screws provided.
4. Connect cable to J2 with red stripe facing front of DG535.
5. Slide the copper board under the bnc's that you installed on the back panel, copper side facing the bnc's. Bend the lug of channel "C" down so it is flush with the copper board. Solder the lug to the copper pc board to hold it in place.
6. Solder the coax cables to their respective channels. ("T0" is to the right on the option board and to the left on the back panel). **Make sure to make connection to the correct bnc.**
7. Solder the ground wires to the lugs. "T0" ground goes to the lug for the external clock. "A"&"B" go to the lug attached to "B". "C"&"D" go to the lug attached to "D".
8. Secure cables with a cable tie.
9. Slide the red and orange wires for +/- 20V through the slot next to the "T0" bnc on the front panel. Solder these wires to the thru holes labeled +20 and –20 on the top pc board. **Do not get these wires reversed. Red goes to –20V and orange goes to +20V.**