Manual for Installation of Additional High Voltage Boards to a C-Pace

This manual will show the steps necessary to a High Voltage Boards to a C-Pace. The example pictures show the transition from a two bank to a six bank C-Pace.

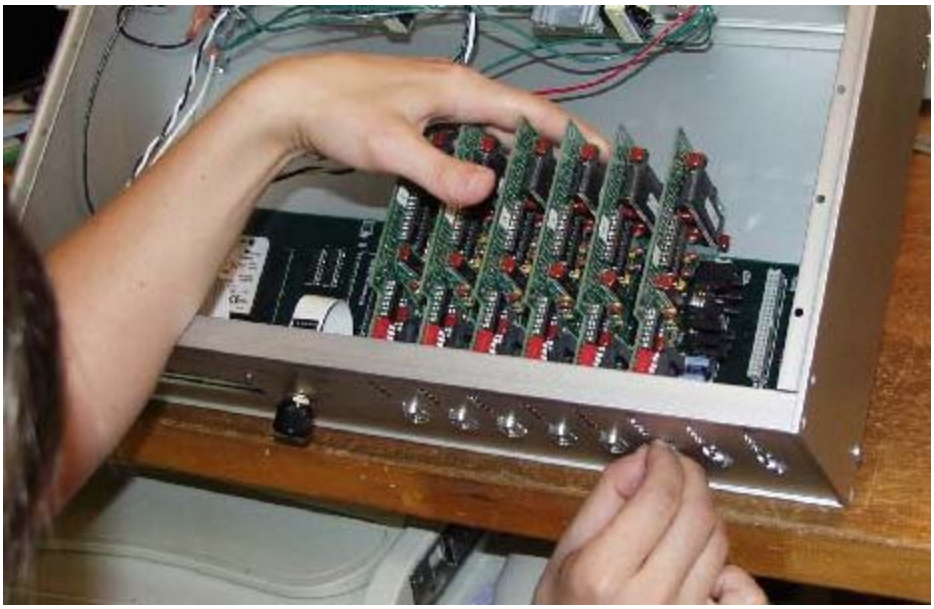
1) Original C-Pace. Notice that 2 banks appear on the display and LEDs and the 9 pin connector are visible in slots 1 and 2. The other slots are blocked by metal panels.

2) **UNPLUG DEVICE!** Use a philips screwdriver to remove C-Pace top, the screws holding the High Voltage Boards to the front panel, and the panels that are blocking the slots you intend to use, and, depending on the age of the device, the two screws attached to the main boards L-Brackets.

3) The Main Board will now slide back.

4) When the High Voltage Boards are configured, they are given an ID number which is reflected in the number on the little white labels. Match the number on the label to the number on the front panel, and insert the High Voltage board into it's socket on the main board.

5) Now for the tricky part. If you have a device with a large screw in one of the side panels, make sure that the main board is resting on top it. Line up High Voltage Board connectors with their slots in the front panel. If you have a device with a board mount power switch, line that up as well. Nestle the board against the panel. This takes a little effort, and I've found that resting an edge on a table and turning the C-Pace on it's side so that gravity is helping is the best way.



6) While continuing to hold the boards against the front panel, finger tighten a couple of the connector screws. Once it is secure, finish tightening and insert rest of screws.

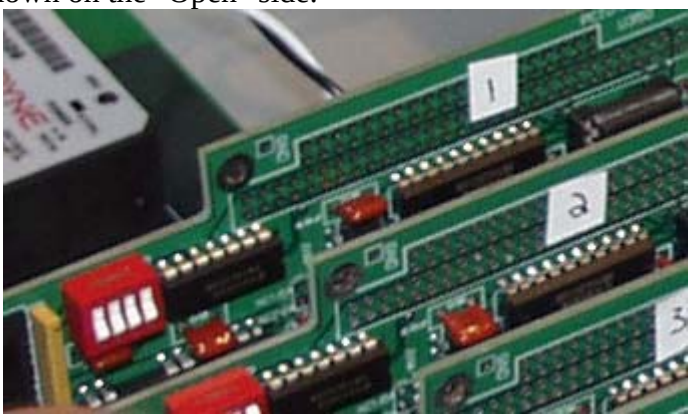
7) Screw the top of the box back on, plug it back in, and turn it on. You should now see 6 banks available on the display. Enable them one at a time to make sure that each turns on when it's supposed to. If this works well, you're done, if not move on to the trouble-shooting section.

Trouble-Shooting

1) Make sure the power cord is plugged in firmly.

2) It is possible that one or more High Voltage Boards have come loose in their sockets. Take the bottom of the C-Pace off and push up on the main board to push the High Voltage Boards more firmly into their sockets.

3) The ID is set with the red dip switch on the top left of the High Voltage Board. It's possible that the setting has gotten changed by mistake. The setting should match the table below with "O" meaning the switch has been pressed down on the "Open" side.



Number of the Slot on the Front Panel	Number on Dip Switch			
	1	**2**	**3**	**4**
1	O	O	O	O
2	C	O	O	O
3	O	C	O	O
4	C	C	O	O
5	O	O	C	O
6	C	O	C	O
7	O	C	C	O
8	C	C	C	O

4) One of the Microcontroller chips may not be in it's socket firmly. Press down on the chips with the handwritten labels to make sure they are making good connection. There is one chip on each High Voltage Board and one on the bottom of the main board.

Contact Us if You Have Any Difficulty

Contact Kate Barber at 617-696-7335 or kate@ionoptix.com