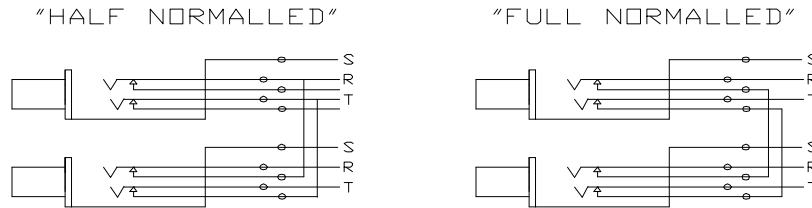


Product: CONCEPT I & *Elite* Consoles with Patchbay's
Attention: The Tie-Line Patchbay Cards on a CONCEPT 1 and *Elite* Console can be modified to be 'full normalled' or 'half normalled'. To modify the PC boards for these options, please follow the instructions of the appropriate section of this bulletin.



Required Tools: #1 Phillips Screwdriver, Soldering Iron, 8 pieces of 22AWG Solid Jumper Wire approx. ¼" in length, Quantity (6) 15 pin Burndy Connectors (Otari PN#21021207), and Quantity (3) 15 pin Jumper Ribbons (Otari PN#60071011).

Full Normalled: You will need two Tie Line Patch Cards (PN#94415525). One should be designated as the "Upper" card and the other as the "Lower" card.

Lower the Access door under the Patchbay. Remove two consecutive Tie Line Cards from the Patchbay (if already installed) by removing the two Phillip Head screws from each of the cards (Be careful not to let the Patch Cards fall into the Belly Pan of the Console).

- **Upper Card Configuration:**
 - Install three (3) of the 15 pin Burndy Connectors onto the 'solder side' (disregard silkscreen notation) of the PCA at locations J107, J108, and J109 and solder into place.
 - Install Jumper Wires at locations W1 thru W4 using four (4) of the eight pieces of 22AWG jumper wire and solder into place.
- **Lower Card Configuration:**
 - Install three (3) of the 15 pin Burndy Connectors onto the 'component side' of the PCA at locations J107, J108, and J109 and solder into place.
 - Install Jumper Wires at locations W1 thru W4 using the remaining four (4) pieces of 22AWG jumper wire and solder into place.

Connect the two Patch Cards together via the three (3) 15 pin Jumper Ribbons and connectors J107 thru J109.

Return the Patch Cards into the Patchbay making sure the solder side of the PC boards is facing down towards the bolster.

Half Normalled: Remove the two Patch Cards as in above and configure as follows:

- **Upper Card Configuration:**
 - Install three (3) of the 15 pin Burndy Connectors onto the 'solder side' of the PCA at locations J104, J105, and J106 and solder into place.

- **Lower Card Configuration:**
 - Install three (3) of the 15 pin Burndy Connectors onto the 'component side' of the PCA at locations J107, J108, and J109 and solder into place.
 - Install Jumper Wires at locations W1 thru W4 using four (4) of the eight pieces of 22AWG jumper wire and solder into place.

Connect the two Patch Cards together via the three (3) 15 pin Jumper Ribbons and connectors J107 thru J109.

Return the Patch Cards into the Patchbay making sure the solder side of the PC boards is facing down towards the bolster.