Disassembly/re-assembly

The TOPAZ provides user selectable options for the operating level of the 2 track inputs and outputs, and the tape inputs and outputs. These are factory set to -10dBV, but can be altered to match equipment operating on the +4dBu standard. The TOPAZ console must be disassembled to gain access to the internal solder links; the disassembly procedure is described below.

First find a suitable area in which to work. The console will need to be turned upside down for this work, so a soft surface such as a carpet is recommended.
Two types of chassis metalwork are used on the Topaz consoles. One type has a base panel and a combined top/rear panel.
The other type has separate top and rear panels (i.e. the rear panel can be removed separately if required). This version has self tapping screws to secure the top edge of the rear panel to the top panel.
The other fixings are the same on both types, and they may both be dismantled for normal service access in the same way. The P.C.B.'s are fixed to the top and rear panels in both cases.

First remove the 6 fixing screws from the top panel, three at each end. Then remove the two screws from the right and left hand ends of the rear panel (one next to the ch.1 mic. socket, one next to the 'MAIN R' output socket). Lastly remove the row of screws from the bottom of the rear panel. The top panel may now be lifted off and turned over for internal access.

Re-assembly is the reverse of the above sequence.

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The User Options

The TOPAZ provides user selectable options for the operating level of the 2 track inputs and outputs (mix out), and the multitrack tape inputs and outputs. The mix output is factory set to +4dBu, and the others are factory set to -10dBV, but can be altered to match equipment operating on the +4dBu standard if required. This operation should be carried out by your distributor or a suitably qualified technician. The procedure for changing the settings of these options is described below.

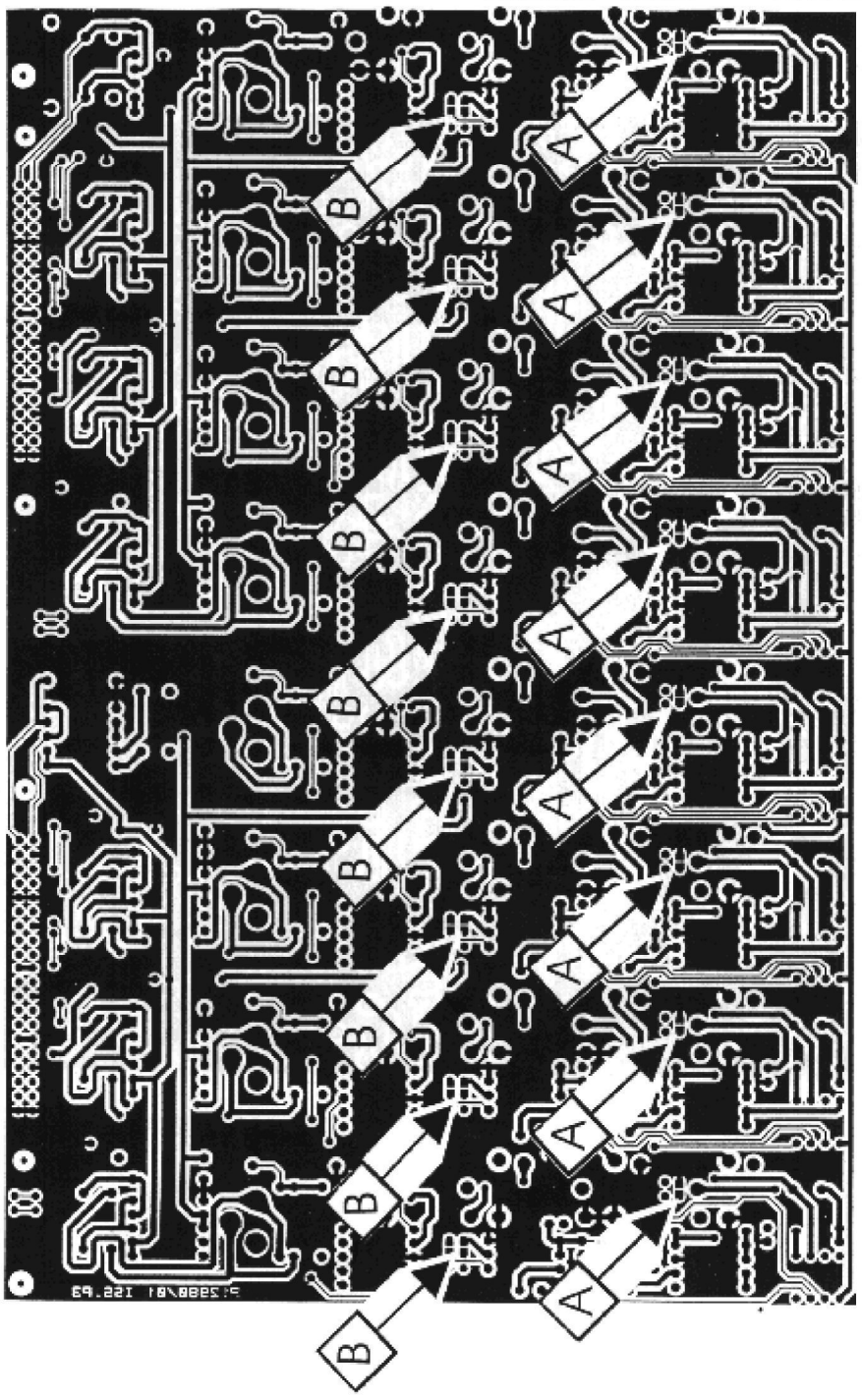
Tape input and output level

Remove the top panel of the console as described on the previous page.

The P.C.B.'s have special solder pads which must be either shorted or opened to set the higher operating level (+4dBu). Each P.C.B. has eight channels on it so there are eight sets of links. A bridge of solder is sufficient to make the connection as the pads are positioned very close together to allow for this.

Tape Out	(link 'A')	Short for - 10, open for +4
Monitor/Tape In	(links 'B')	Short for + 4, open for - 10 (2 links per channel - balanced input)

Refer to the pcb diagram opposite for the precise location of these links.


A
B

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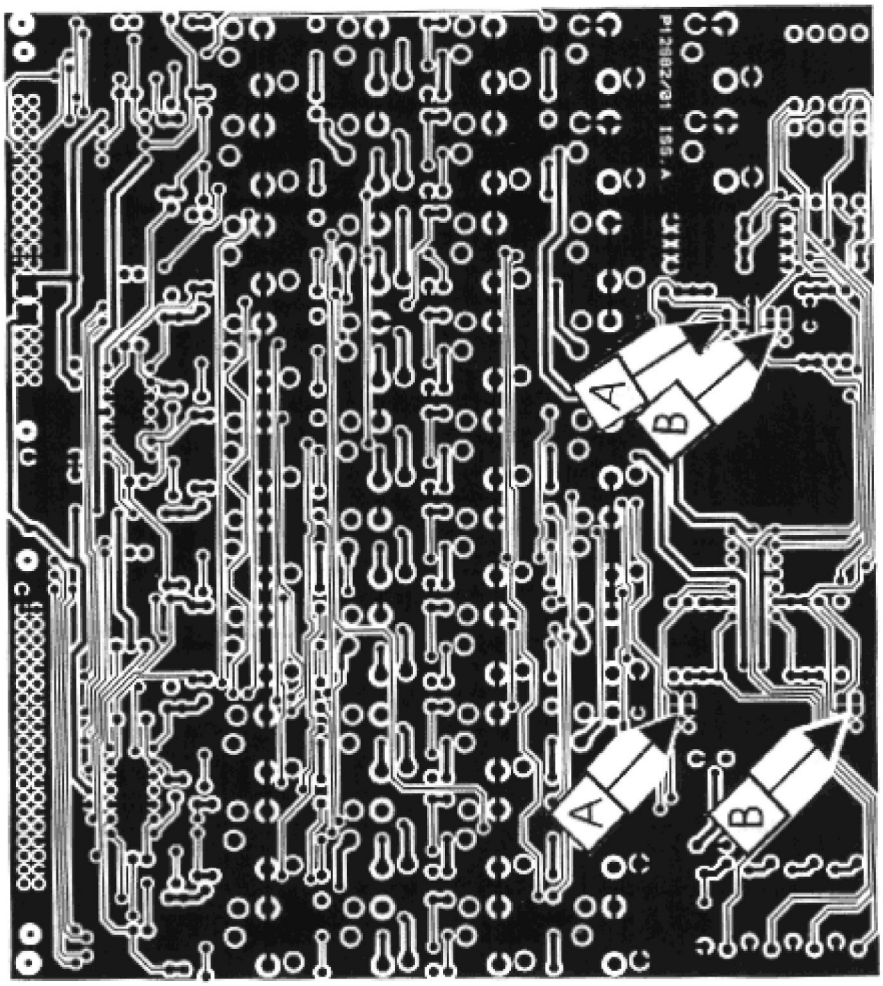
2 Track input

Remove the top panel of the console as described on the previous page.

The master P C B. has special solder pads which must be shorted to set the higher operating level (+4dBu). A bridge of solder is sufficient to make the connection as the pads are positioned very close together to allow for this.

2 Track Return A	(links 'A')	Short for + 4, open for - 10 (2 links per channel - balanced inputs, i.e.4 links per return)
2 Track Return B	(links 'B')	Short for + 4, open for - 10 (2 links per channel - balanced inputs, i.e.4 links per return)

Refer to the pcb diagram opposite for the precise location of these links.


A
B
A
B