MILLENIUM SERIES ANALOG CONSOLE - TECH NOTE

FOUR MIX MINUS 6-INPUT AND 4-OUTPUT BOARDS

INSTALLATION AND OPERATION

NOTE: The console must be powered down and off air for this procedure. Allow approximately 2-4 hours. Access to the underside of the console is required.

I. **INSTALLATION**

NOTE: The mix-minus output board must be mounted directly in front of the output board on the console inside base.

The mix-minus 6-input board(s) mount directly in front of the 6 mixer board(s) on the console inside base.

1) Cut the wire ties holding the power supply cable bundle that passes in front of any input or output board which will be fronted by a mix-minus board. Fold the power supply cable up over the boards (towards the rear of the console) and remove any stick downs which hold the ties in place.

2) Place the mix-minus board(s) <u>exactly flush</u> against the console 6-input or output board and mark the mounting holes on the console base.

3) Remove the mix-minus boards and drill the holes with an 11/64" metal bit. Pay particular care to keep metal filings out of the console.

4) Mount the mix-minus board(s) on the console base. Use the spacers provided to raise the boards off the base to avoid shorts.
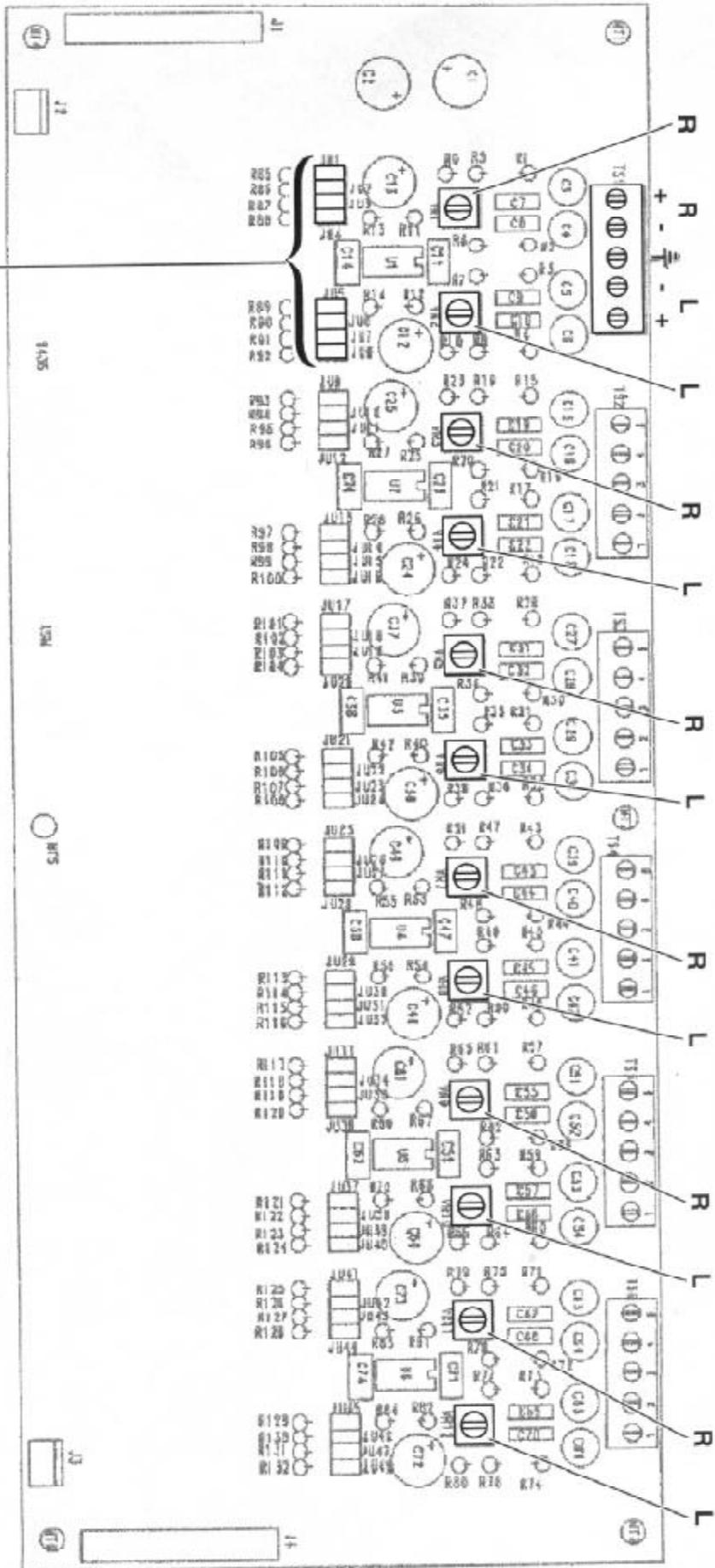
II. **WIRING**

1) Remove the existing 10-pin power supply connector from the output board and plug it into the open connnector on the mix-minus output board (take care to align pin 1 towards the rear of the console). Plug the 10-wire power supply connector jumper cord from the mix-minus board into the now open jack on the output board.

2) Plug the ribbon cable(s) and 3 wire ground cable(s) between the mix-minus boards.

3)	Wire the mix-minus input connectors to any external audio source or in parallel with any console inputs or, for post input selector access, to any console loop-through connectors. For unbalanced input connections to the mix-minus board (from the loop-through point or unbalanced input sources), wire the minus pin on the mix-minus board input connector to the ground pin.

Use the buss assign program pins to select which busses are fed by the audio inputs. Multiple busses may be selected for an individual audio input with no down stream intermixing of the audio busses.
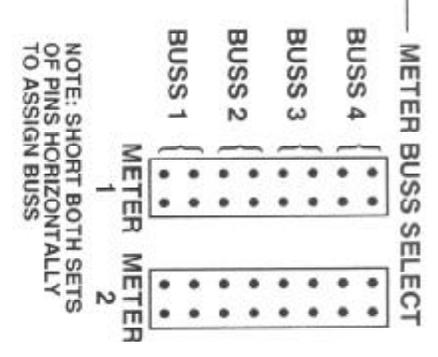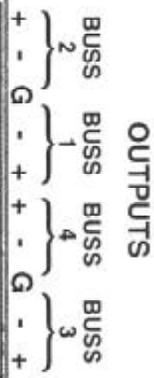
4)	Wire the four output busses to any line level audio input. Gain is adjusted via the four "buss out" set pots on the board. A cable is provided to connect a maximum of two VU meters with peak LED flashers. Radio Systems can provide meters to mount in the console overbridge or for external use. Use the on-board mix 1 and 2 meter level and peak LED set pots to adjust meter sensitivity and LED turn-on points. Use the meter buss select pins to program which busses are read by the meters.

BUSS ASSIGN

LEFT
4 3 2 1

RIGHT
1 2 3 4

NOTE: SHORT UPPER TO LOWER PIN TO ASSIGN INPUT TO BUSS.
MULTIPLE BUSSES MAY BE ASSIGNED

OUTPUTS

BUSS 2: + - G
BUSS 1: - + +
BUSS 4: - G -
BUSS 3: - +

BUSS 1 OUT
BUSS 2 OUT
BUSS 3 OUT
BUSS 4 OUT

METER LEVEL SET

MIX 1
MIX 2

MIX 1
MIX 2

METER PEAK LED SET

1 +) METER
2 -) 1
3 +) METER
4 +) METER
5 -) 2
6 METER 2 LED CATHODE
7 METER COMMON LED ANODE

3 METER 1 LED CATHODE

METER BUSS SELECT

BUSS 4
BUSS 3
BUSS 2
BUSS 1

METER 1
METER 2

NOTE: SHORT BOTH SETS
OF PINS HORIZONTALLY
TO ASSIGN BUSS