

## Tech Note

# Installing a mic/line card in the original 2U Matrix chassis

This document explains how to install the optional mic/line preamplifier input card in the original style matrix chassis. This chassis, used on all matrices manufactured before 1999, has input card mounting holes that slightly mismatch the holes on the mic/line card.

Besides the chassis modification, you must update all system ROMs and add an IPB cable.

Elongate these four holes by .050" in the direction shown by the arrows.

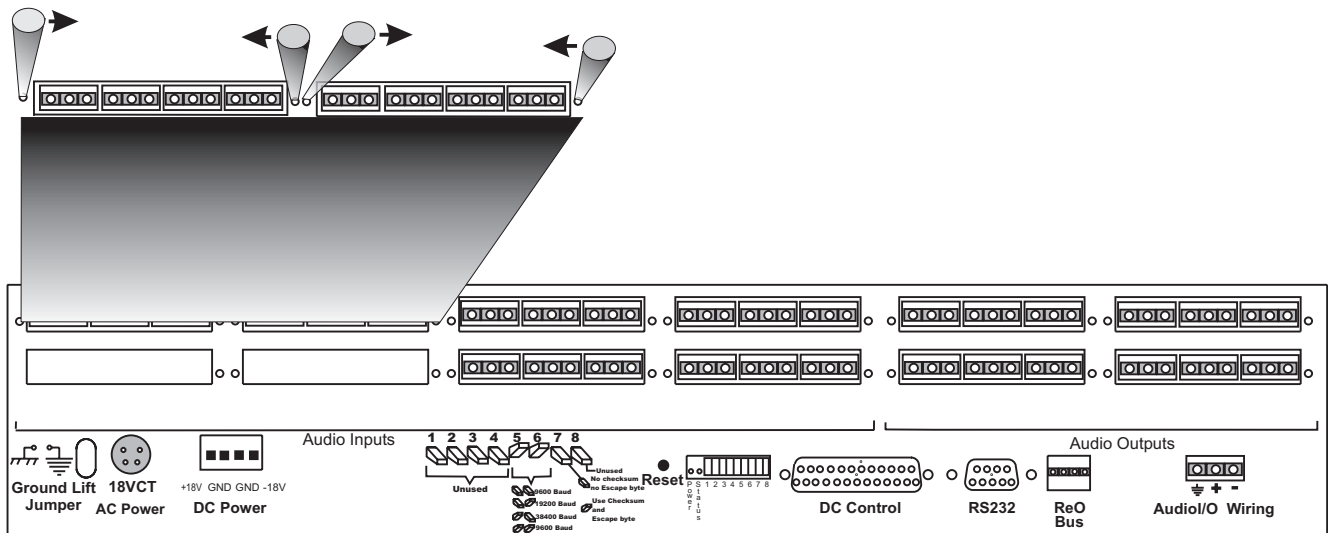
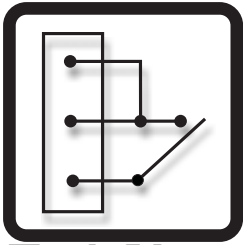


Fig. 1. The matrix rear chassis showing the location of the four mounting holes to be elongated. The modified input slot must have an empty slot below it.

### Step 1: Modifying the chassis

- 1) Select an input slot with no other input cards in the slot below it. This will allow you to access the manual adjustments at the bottom of the mic/line card after installation.
- 2) Using a rat-tail file, a Dremel tool, or other appropriate tool, elongate the four mounting holes for the input slot as shown in the drawing above. The holes are each widened by .050" in the direction shown by the arrows in the drawing.
- 3) Mount the mic/line card to the modified rear panel with the supplied screws.
- 4) Reconnect the audio cable to the mic/line card. Ensure that the tracer on the ribbon cable goes to pin one of the connector (nearest the edge of the circuit board).



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### Step 2: Replace Master CPU ROMs

- 1) Remove the matrix bottom panel.
- 2) On the master CPU card, remove the ROM labelled “**intelix App ROM**” and replace it with the supplied Intelix App ROM. The version number will be different. Be sure to orient the new chip in the same way as the old one (use the notch at the top of the ROM chip to check).
- 3) On the master CPU card remove the ROM labelled “**intelix Comm ROM**” and replace it with the supplied “Intelix Comm ROM”. The version number will be different. Be sure to orient the new chip in the same way as the old one (use the notch at the top of the ROM chip to check).

### Step 3: Replace the 16 x 8 crosspoint ROMs

- 1) For each 16 x 8 crosspoint card in your system, replace the ROM labelled “**intelix 16x8**” with the new ROM with the supplied “Intelix 16x8” ROM. The version number will be different.

### Step 4: Install the IPB cable

- 1) Attach the included IPB cable (with RJ12 connectors at both ends) between any open IPB connector on the master CPU card and one of the IPB connectors on the mic/line card. The master CPU card is accessible from below with the matrix bottom panel removed. If no IPB connector is open on the CPU card, disconnect an IPB cable from the nearest crosspoint (VCA) card, connect that cable to the mic/line card, and connect the new IPB cable to the second connector on the mic/line card to the VCA card.