

UPGRADING THE FRONT-PANEL DISPLAY ON THE ICS-2003 MATRIX STATIONS



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P/N 810317 Rev. A

The front-panel upgrade kit for the ICS-2003 matrix station includes a new fluorescent display, new front-panel circuit boards, and a new set of toggle keys.

When the kit is installed, you will have a new state-of-the-art station for your Matrix Plus 3 system.

The upgraded vacuum fluorescent display (VFD) dramatically extends the life span of the station and improves its readability in all lighting conditions.

Clear-Com's factory can install the kit for you for a fee, or you can install the kit yourself. The following instructions show you how to install the kit yourself if you choose to do so.

NOTE: To order the kit, refer to "FPVD-2003" (front-panel upgrade kit for the ICS-2003 matrix station.)

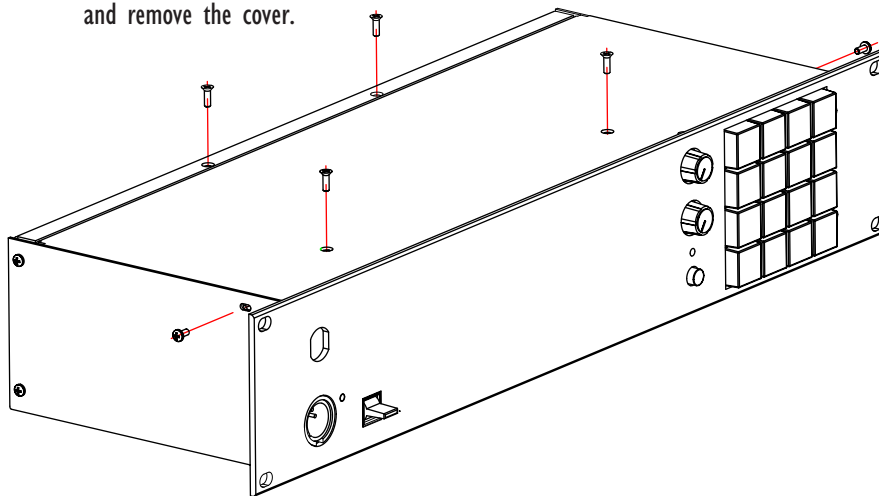
To install the new front panel you will need the following tools:

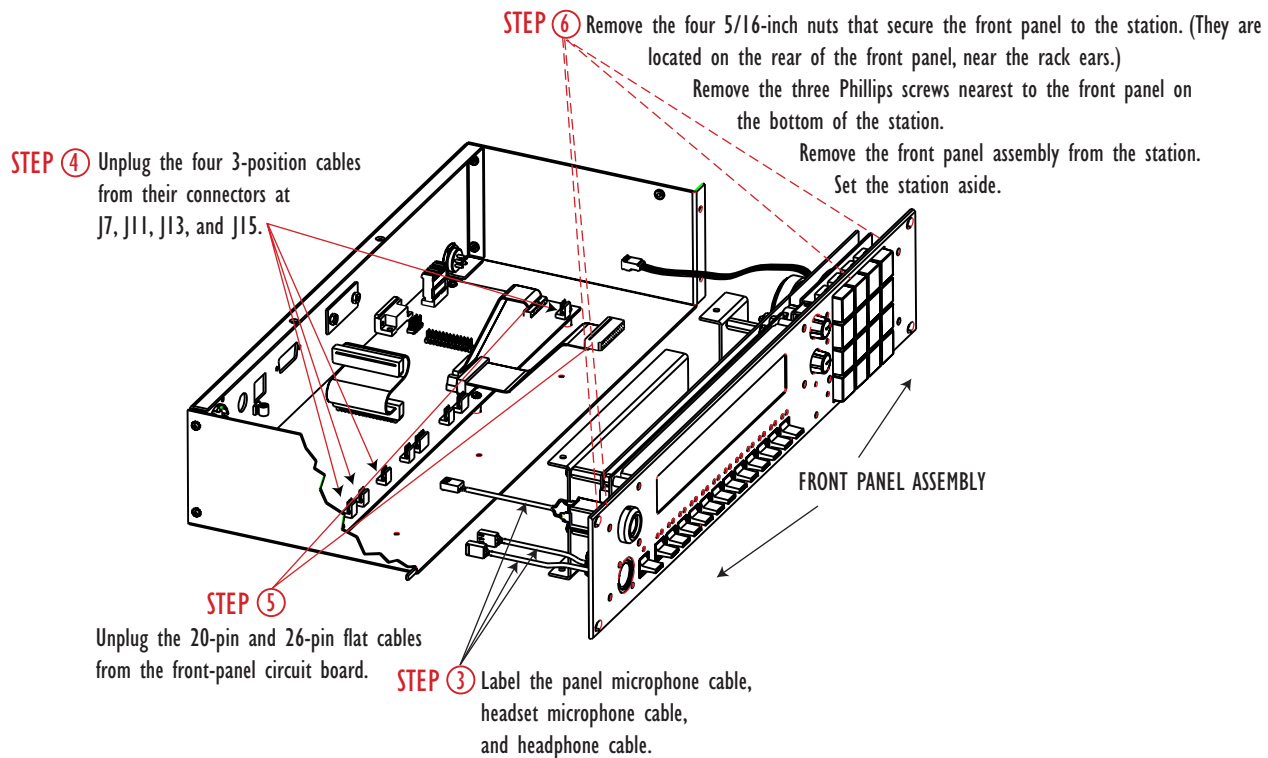
- Phillips screwdriver
- 1/4-inch nut driver
- 5/16-inch nut driver
- 11/32-inch nut driver
- 5/8-inch nut driver

⚠ Please read and follow these instructions. Damage to components may occur if these instructions are not followed.

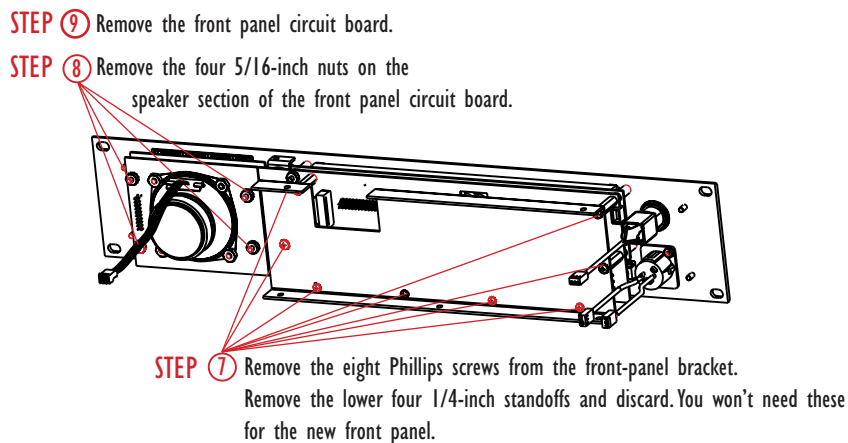
REMOVING THE OLD FRONT-PANEL ASSEMBLY

- STEP 1** Disconnect the intercom station from its power source. Set it on the table facing you.
- STEP 2** Remove the six screws that fasten the cover to the station and remove the cover.

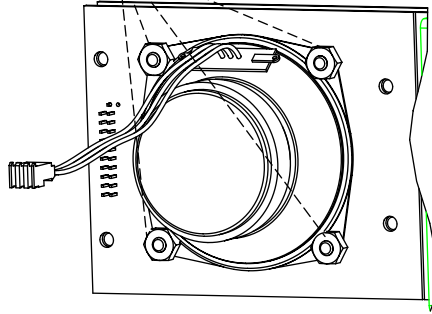




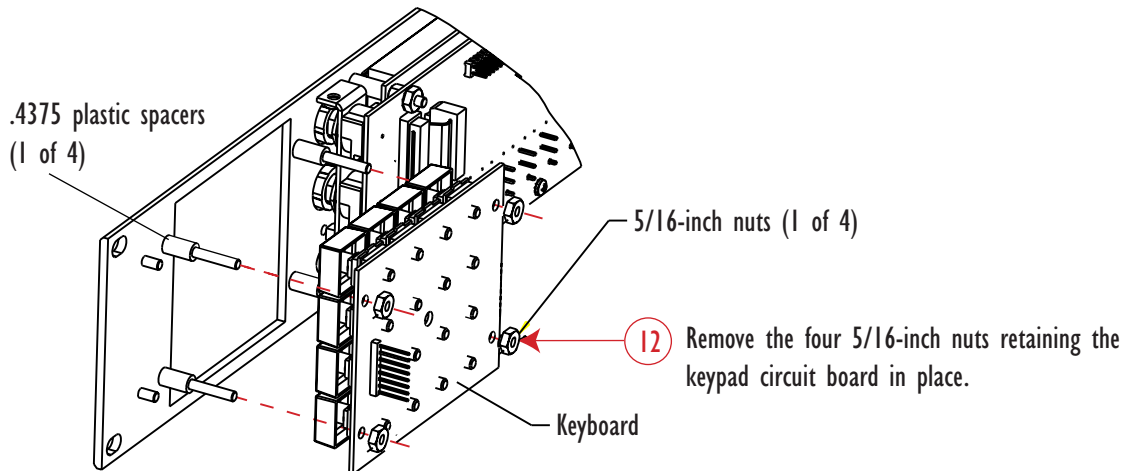
FRONT PANEL (REAR VIEW)



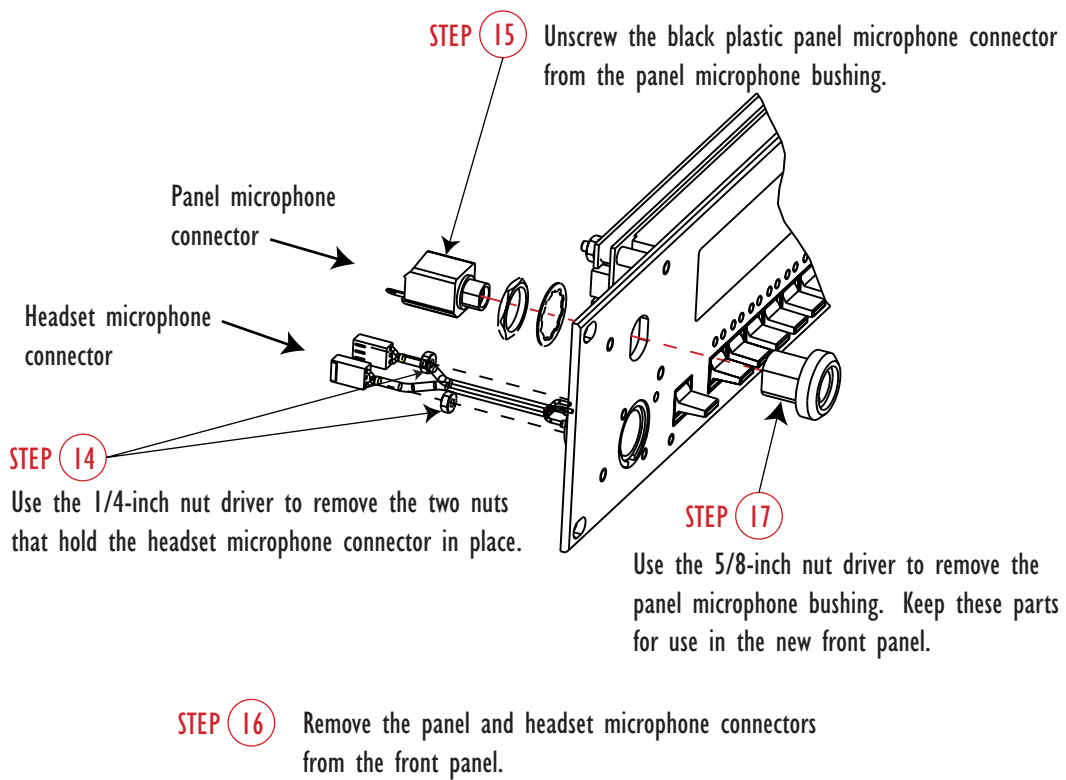
STEP 10 Remove the four 11/32-inch kepnuts that hold the speaker in place.



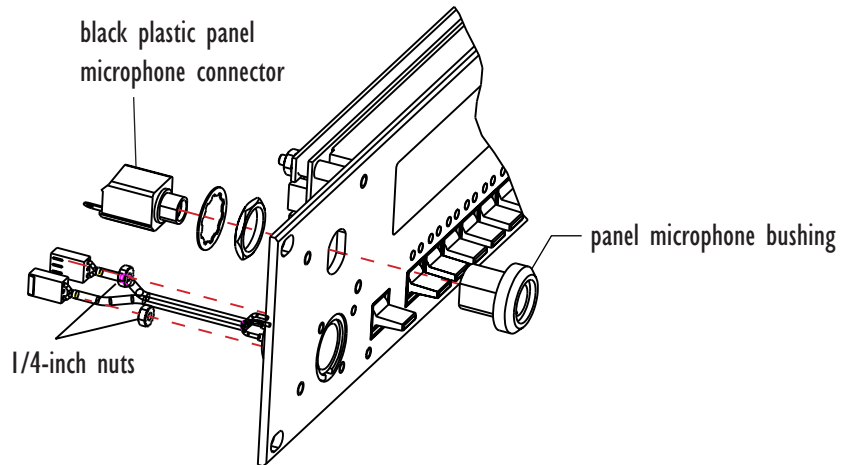
STEP 11 Remove the speaker and place it aside.



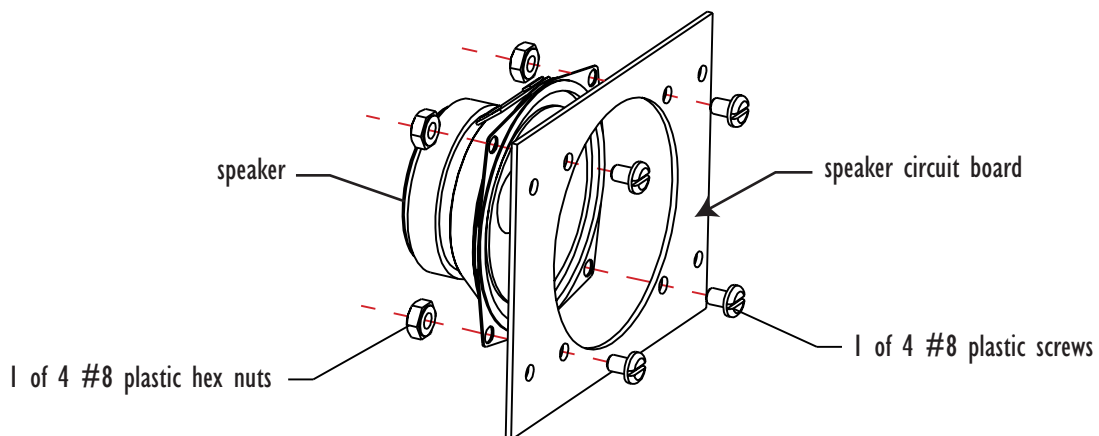
STEP 13 Remove the keyboard assembly. Keep the four .4375 plastic spacers for use in the new front panel assembly.



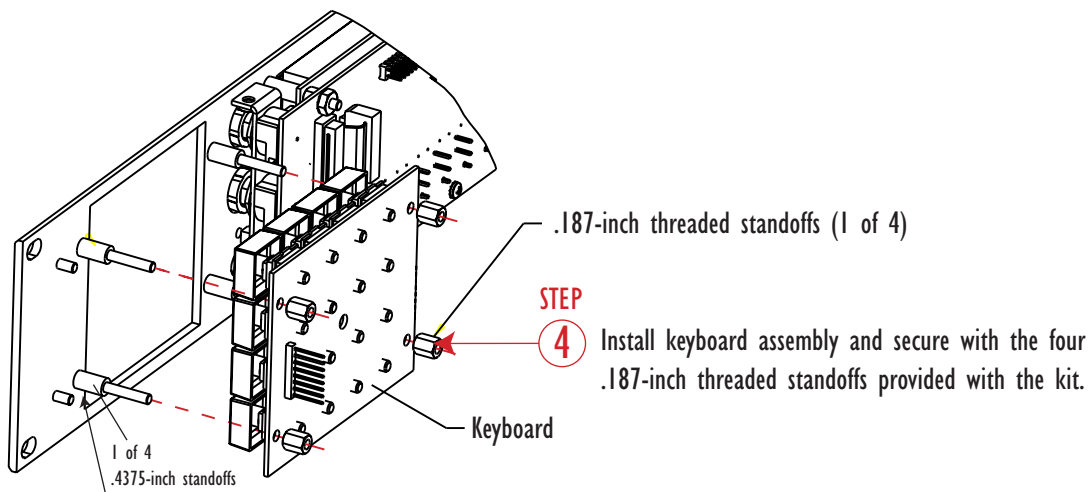
INSTALLING THE NEW FRONT-PANEL ASSEMBLY



- STEP 1** Install the panel microphone bushing on the new front panel. Reinstall the black plastic microphone connector in the microphone bushing. Use the 1/4-inch nut driver to install the two nuts that hold the headset microphone connector in place.

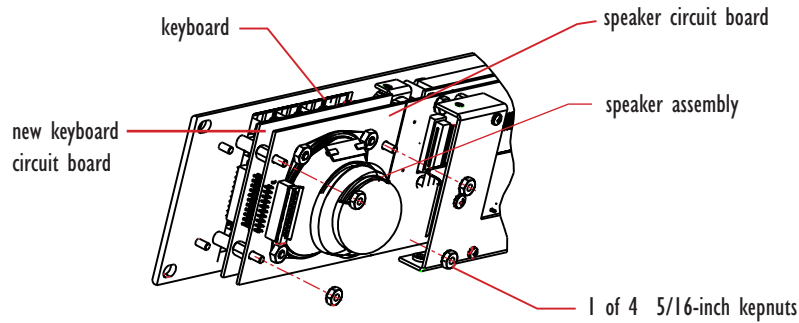


- STEP 2** Install the speaker on new circuit board by securing the four #8 plastic screws into the four #8 plastic hex nuts as shown. Use the 11/32-inch nut driver to tighten, to avoid damaging the speaker.

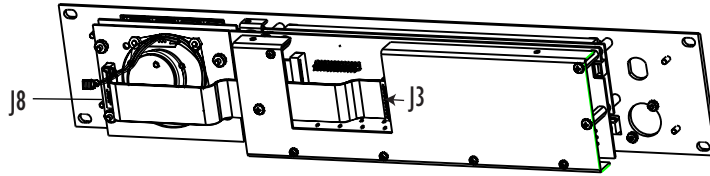


STEP 3 Install the .4375-inch standoffs that you removed in step 13 of "Removing the Old Front Panel Assembly."

STEP 4 Install keyboard assembly and secure with the four .187-inch threaded standoffs provided with the kit.



STEP 5 Mount speaker assembly on keyboard circuit board. Secure speaker assembly with four 5/16-inch kepnuts.

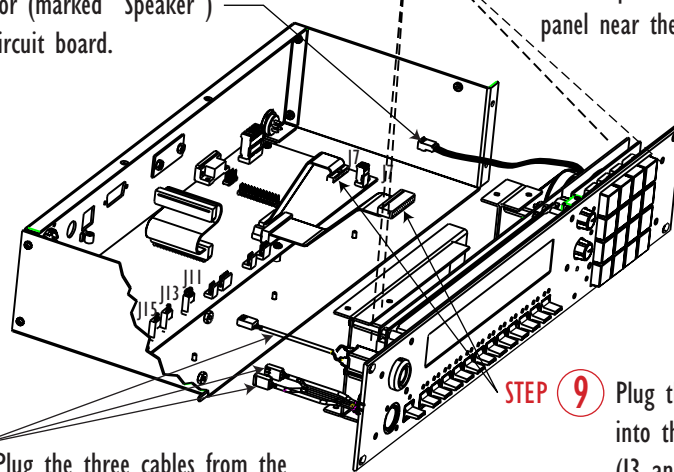


STEP 6 Plug the interconnect cable into the J8 connector on the speaker circuit board.

STEP 8 Plug the speaker cable into the J7 connector (marked "Speaker") on the main circuit board.

STEP 7 Mount the new front panel assembly onto the station by installing the four 5/16-inch kepnuts on the rear of the front panel near the rack ears.

Also install the three Phillips-head screws on the bottom of the station (nearest the front panel).



STEP 10 Plug the three cables from the panel microphone and headset jacks into the connectors marked PANEL MIC (J11), HEADSET MIC (J13), and HEADPHONE (J15).

STEP 9 Plug the 20-pin and 26-pin flat cables into the front panel circuit board connectors (J3 and J18).

STEP 11 Replace the six screws removed in Step 2 of "Removing the Old Front Panel Assembly."
Install the seventh screw included with the kit.

