



## REPLACING THE MX8750 E-PROM

The MX8750 E-PROM contains the firmware program for the MX8750 digital crossover signal processor. The firmware program electronically defines the digital signal processing functions and capabilities of the MX8750.

### Section 1 Read This First

The E-PROM is an integrated circuit and is subject to the same precautions one should take in handling any integrated circuit and for working inside an AC powered electronic device. This means:

1. Do not handle the E-PROM by its pins.
2. Ensure you are at the same voltage potential as the MX8750 chassis by grounding yourself to the MX8750.
3. Disconnect the MX8750 from the AC power by unplugging the AC power cord.
4. Disconnect all input and output cables from the MX8750.

**DANGER:** Failure to follow these precautions can result in injury or death to you or damage to the equipment.

### Section 2 Unpacking

Remove the E-PROM from its packaging only after you have prepared the MX8750 to install the E-PROM and are ready to install it. Handle the E-PROM only by grasping the ends. Do not handle it by grasping the pins.

### Section 3 Description

The new E-PROM will update and, in some cases, change the functions and parameters in the MX8750. However, whatever configuration is stored in the MX8750 will be retained in its non-volatile memory. If you do wish to save these settings as a backup measure, do a FILE/SAVE or FILE/SAVE AS in the MXware program.

### Section 4 The "Operation"

#### 4.1 TOOLS

You will need the following tools:

- # 2 Phillips head screwdriver
- Chip-puller for a standard 28 pin integrated circuit -or- small flat-blade screwdriver

#### 4.2 PREPARATION

- a. Unplug all input and output cables from the MX8750, including any computer connections.
- b. Unplug the AC Power cable from the MX8750.
- c. Remove the top cover by removing the seven screws that secure it as shown in Figures 1 and 2. Note that the screw from the front panel is different from the other six.
- d. Locate the existing E-PROM shown in Fig. 2.

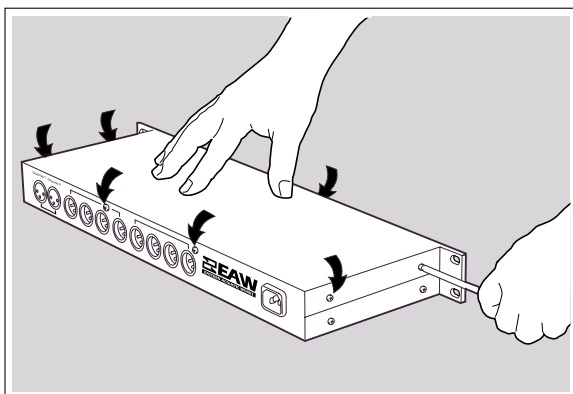


Figure 1 MX8750 Cover Mounting Screws

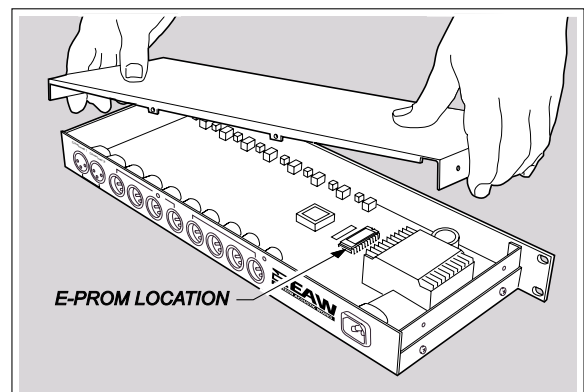


Figure 2 Removing the Cover

- e. To eliminate any static charge between you and the MX8750, "ground" yourself to the MX8750 chassis by touching an aluminum side plate.
- f. Remove the old E-PROM from its socket using the "chip puller". Or, using a small flat-blade screw-driver, very gently pry up the rear of the old E-PROM slightly as shown in Fig. 3. Then pry up the chip's front until it can be lifted from its socket as shown in Fig. 4. Be sure the screwdriver "catches" the underside of the E-PROM and not the plastic E-PROM socket.

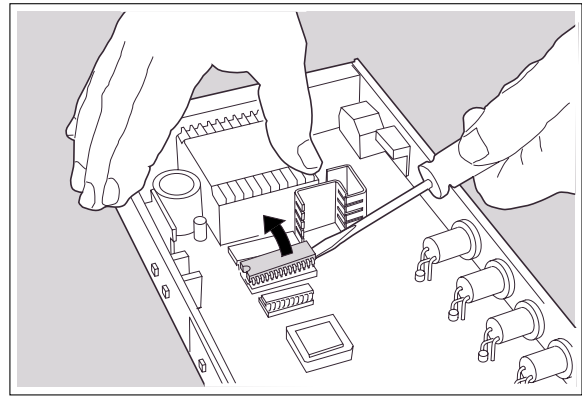


Figure 3 Prying Up the Rear of the E-Prom

#### 4.3 INSTALLATION

- a. Remove the new E-PROM from its packing, grasping it ONLY by the ends and not the pins.
- b. To eliminate any static charge between you and the MX8750, "ground" yourself to its chassis.
- c. Align the new E-PROM with the now-empty E-PROM socket so that the notched end is near the MX8750 front panel as shown in Fig. 5.
- d. Gently position the E-PROM so that all 28 pins are mating with the 28 pin sockets. This may require bending the pins slightly inward.

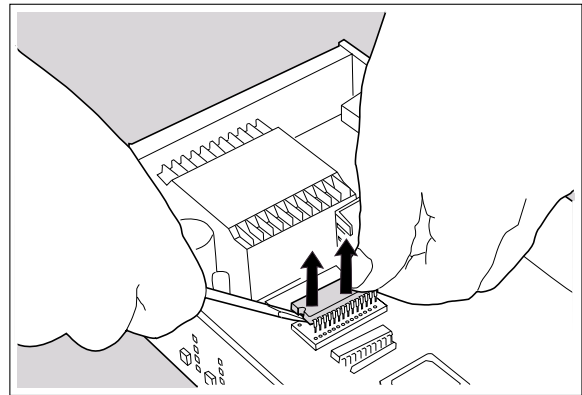


Figure 4 Lifting the Old E-Prom From its Socket

**DANGER:** Installing the new E-PROM incorrectly will damage the E-PROM and/or the MX-8750.

- e. Apply downward pressure to force the pins into the E-PROM socket until they are fully seated. Push on one then the other end in alternating fashion "working" the E-PROM into its socket.
- f. Double check that the notched end of the new E-PROM is towards the front panel.
- g. Replace the MX8750 top cover and re-install the seven screws removed in step 4.2c.
- h. Reconnect the AC power cable and all input and output cables removed in steps 4.2a and 4.2b.
- i. Power up the MX8750 and watch the input level LEDs. The E-PROM Version will be briefly indicated by which left and right channel LEDs illuminate. For example: the 1st left LED and the 2nd right LED would indicate E-PROM Version 1.2.

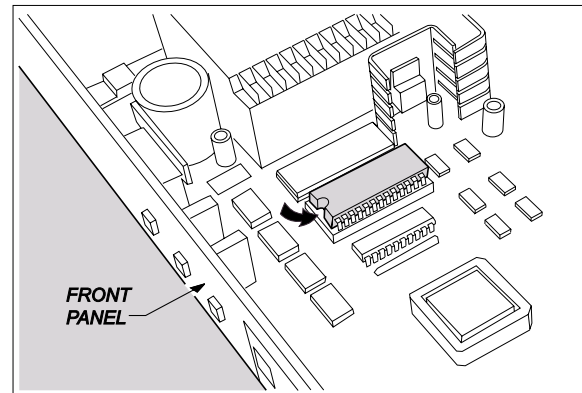


Figure 5 Showing the Notched End of the New E-Prom

This completes the installation and the MX8750 is now ready for use.

## Section 5 Service

If you have any questions about installing the new E-PROM contact the EAW Service for assistance:

Eastern Acoustic Works	Tel	800-992-6001 (USA only)
EAW Service Department	Tel	508-234-6001
One Main Street	Fax	508-234-3776
Whitinsville, MA 01588 USA	E-mail	service@eaw.com

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