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The Professional Audio Division of Crown International, Inc.

IQ System
SMX-6 Backup Retro Module
Installation Instructions

Printed on
recycled paper.

125501-1
12/97

General

The purpose of this modification is to enhance the IQ SMX-6 Mixer with updated circuitry and firmware to eliminate possible program memory loss due to an AC power brownout. At the operator level there are no changes in mixer operation associated with this firmware upgrade. This kit retrofits all SMX-6 Mixers.

Contents

This kit, Crown Part Number 125506-1 includes instruction sheet, two labels, and the hardware assembly.
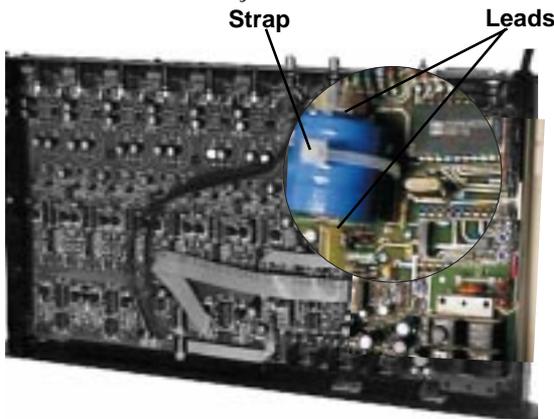
Additional Items Required

1. PC with appropriate IQ software.
2. Communication cables (specific cables required depends on method of connection).
3. Phillips screwdriver.
4. IC puller.
5. Small pair of diagonal wire cutters.
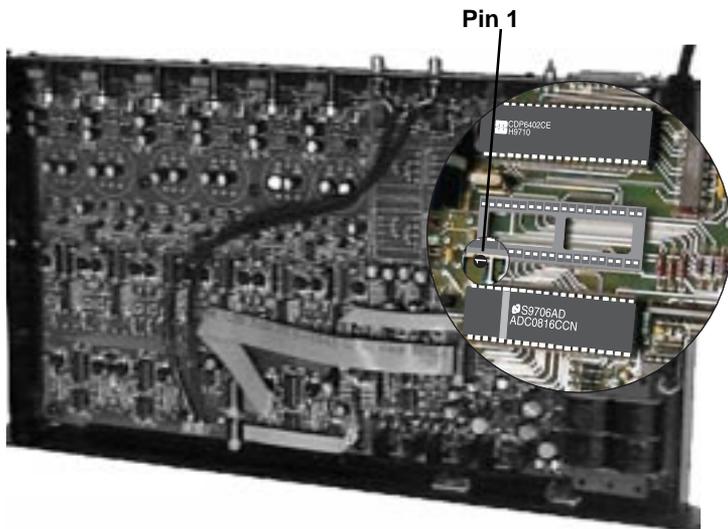
Precautions

1. **All SMX-6 data should be saved to disk before performing any of the procedures below.**
2. **Use full static precautions including static mats, wrist straps, etc.**
3. **Ensure the AC power is removed from the unit whenever the cover is removed.**
4. **THIS MODIFICATION SHOULD ONLY BE PERFORMED BY A QUALIFIED TECHNICIAN.**
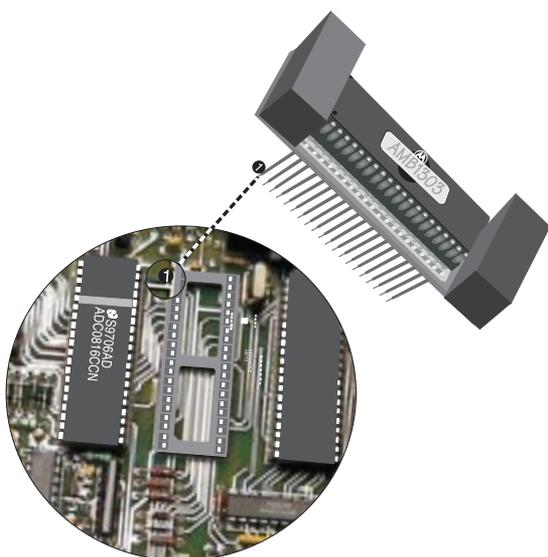
Installation Procedure

1. Remove all audio and data connections to the SMX-6.
2. Remove AC power from the SMX-6.
3. Remove the top cover from the SMX-6 by removing eight screws. (Two at each end, three top center of back panel, one top center of front panel).
4. Remove the IC or previous retro module from the 40-pin socket labeled U96. This socket is located between two other 40-pin sockets near the battery, and can be identified by the label "U96" silk screened on the board.
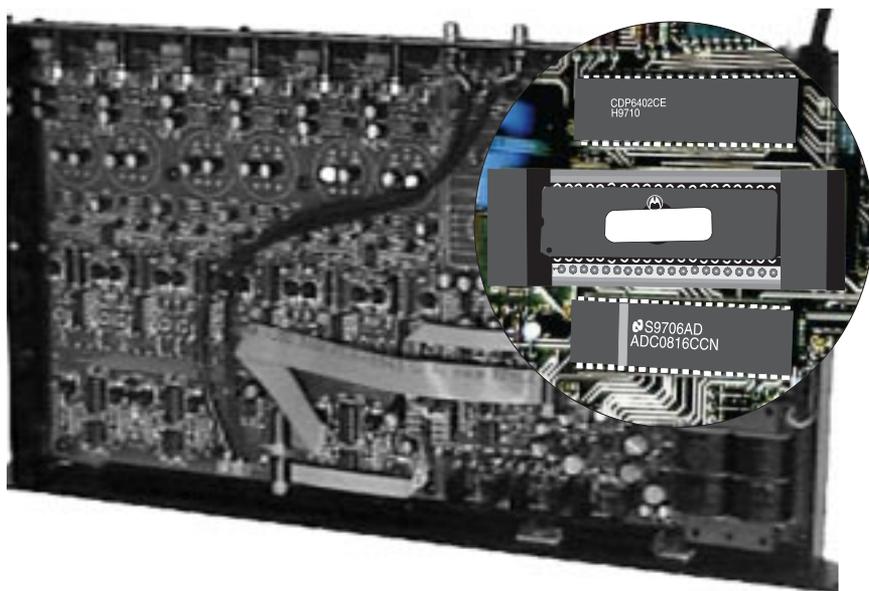
Strap   **Leads**

5. Remove battery B1 by cutting the retaining strap (if present) and the two leads. Trim leads near to the circuit board.

Pin 1

6. Remove the retro module from the static bag. Use static precautions when handling the module.
7. Install the retro module in the U96 socket; make sure the module is orientated so pin 1 of the 40-pin IC matches pin 1 of the socket. Press firmly and carefully to ensure that all the pins mate properly into the socket.

8. Place one of the enclosed version labels over the existing version label. The version label is located on the back panel near the power cord. If the old version label is missing, place the new label near the power cord.

9. Replace the top cover and screws.
10. Apply AC power.
11. Test the modification
    11.1 Establish communication using the IQ software.
    11.2 Ensure that the unit accepts commands by downloading settings.
    11.3 Perform a Roll Call to ensure that the settings are properly saved in the unit.
12. Test the memory backup
    12.1 Establish communication using the IQ software.
    12.2 Ensure that the unit accepts commands by downloading settings.
    12.3 Wait five seconds.
    12.4 Remove AC power from the mixer for at least 30 seconds, then restore power to the mixer.
    12.5 Perform a Roll Call or Upload to ensure that all settings are properly saved in the unit.

Technical Support

Call Crown Technical Support at (219) 294-8200 or (800) 342-6939 or Fax (219) 294-8301.