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X-8 Output Expander
Installation Manual

X-8 Installation Manual

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Please record the following information:

Your Authorized ENSONIQ Dealer:_____ Phone:_____

Your Dealer Sales Representative:_____

Serial Number of Unit:_____ Date of Purchase:_____

Your Authorized ENSONIQ Dealer is your primary source for service and support. The above information will be helpful in communicating with your Authorized ENSONIQ Dealer, and provide necessary information should you need to contact ENSONIQ Customer Service. If you have any questions concerning the use of this unit, please contact your Authorized ENSONIQ Dealer first. For additional technical support, or to find the name of the nearest Authorized ENSONIQ Repair Station, call ENSONIQ Customer Service at (610) 647-3930 Monday through Friday 9:30 AM to 12:15 PM and 1:15 PM to 6:30 PM Eastern Time. Between 1:15 PM and 5:00 PM we experience our heaviest call load. During these times, there may be delays in answering your call.

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Installing the X-8 Output Expander

Overview

The X-8 output expander provides your ASR-X with eight additional 1/4" outputs. Sounds can be directed to these outputs via their track and pad FX Bus settings (see Chapters 2 and 3 of the ASR-X Reference Manual to learn more). The sequencer click can also be routed to the X-8's outputs (see Chapter 6 in the ASR-X Reference Manual for details).

The installation of an X-8 expander involves four operations described in this document and the ASR-X Reference Manual:

1. Opening the ASR-X.
2. Removing the rear-panel protective plate.
3. Attaching the ribbon cable.
4. Mounting the X-8.
5. Closing the ASR-X.

An Important Note About Electro Static Discharge

Many of the internal components in the ASR-X and areas of the X-8 board are susceptible to Electro Static Discharge (ESD), commonly known as "static." Electro static discharge can damage or destroy electronic devices. Here are some procedures you can follow when handling electronic devices in order to minimize the possibility of causing ESD damage:

- Before opening your ASR-X or handling the X-8 board, you should be grounded. Use a ground strap to discharge any static electric charge built up on your body. The ground strap attaches to your wrist and any unpainted metal surface within the ASR-X.
- Avoid any unnecessary movement, such as scuffing your feet when handling electronic devices, since most movement can generate additional charges of static electricity.
- Minimize the handling of the X-8. Keep it in its static-free packaging until needed. Transport or store the X-8 board only in its protective package.
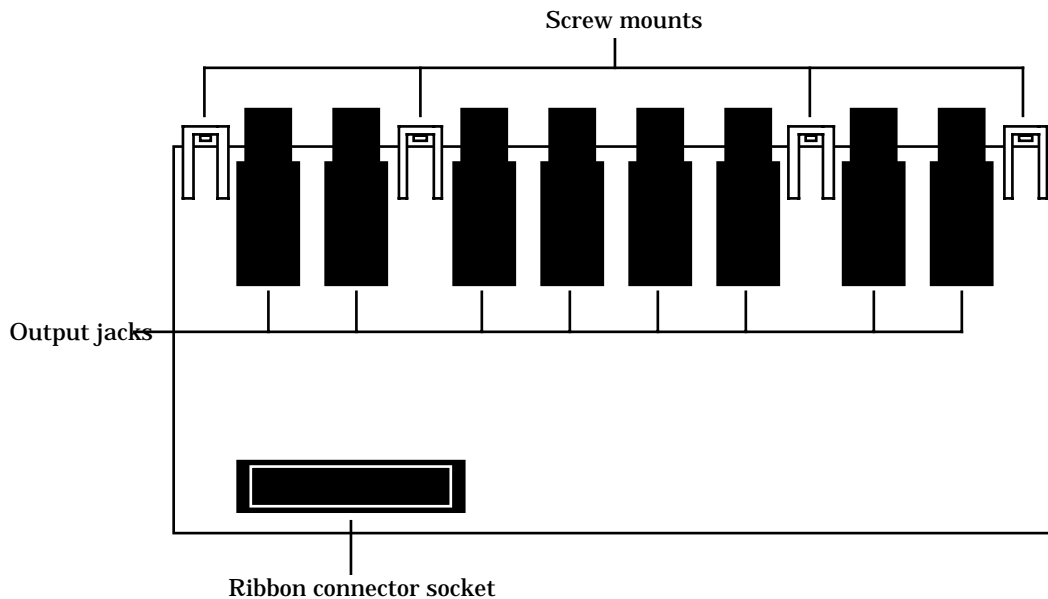- When working with the X-8 board, try to handle it by its edges only.

If you have any questions concerning the installation of the X-8, or for additional technical support, please contact your authorized ENSONIQ dealer or ENSONIQ Customer Service at (610) 647-3930 Monday through Friday 9:30 a.m. to 12:15 p.m. and 1:15 p.m. to 6:30 p.m. Eastern Time.

Installing the X-8 Output Expander

What You'll Need

- A Philips-head screwdriver
- An X-8 output expander kit, including the X-8 board, ribbon cable, screws and anti-static wrist strap. When viewed from the top, the X-8 board looks something like this:

Screw mounts

Output jacks

Ribbon connector socket

The supplied ribbon cable is used to connect the X-8 to the ASR-X main board. While it is sturdy enough for normal use, ribbon cables are always subject to breakage—treat yours gently. The four screws are used to mount the X-8 onto the ASR-X's rear panel.

Use the wrist strap as described in "An Important Note About Electro Static Discharge" at the beginning of this document.

Warning: Make sure that your ASR-X is turned off and its power cord is disconnected before performing any of the following installation procedures.
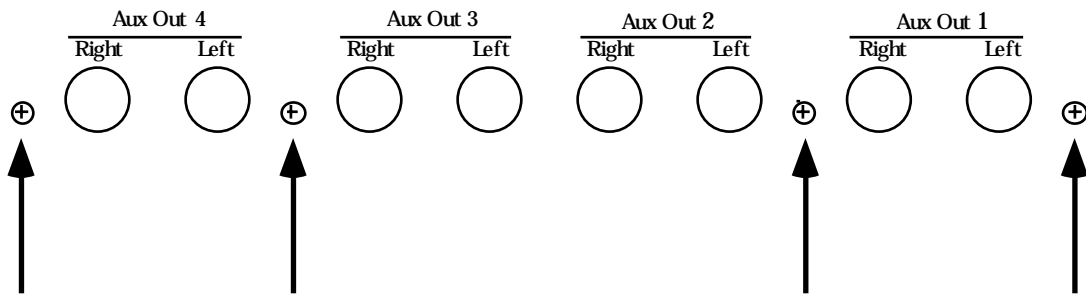
Opening the ASR-X

The procedure for opening the ASR-X is detailed in Chapter 8 of the ASR-X Reference Manual.

Removing the Rear-Panel Plate

1. Once you've opened the ASR-X, look into it to locate the protective plate attached to the inside of its rear-panel wall. This small sheet of metal serves as a covering for the holes into which you'll be installing the X-8's output jacks.
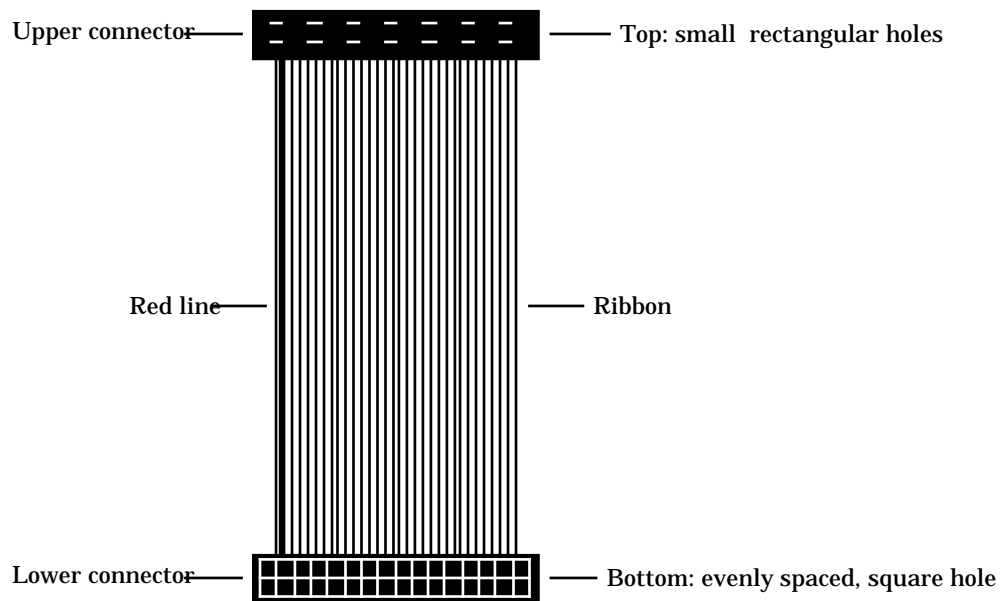2. Turn the ASR-X so that its rear panel is facing you.

3. Locate the four Philips-head screws that hold the protective plate in place.

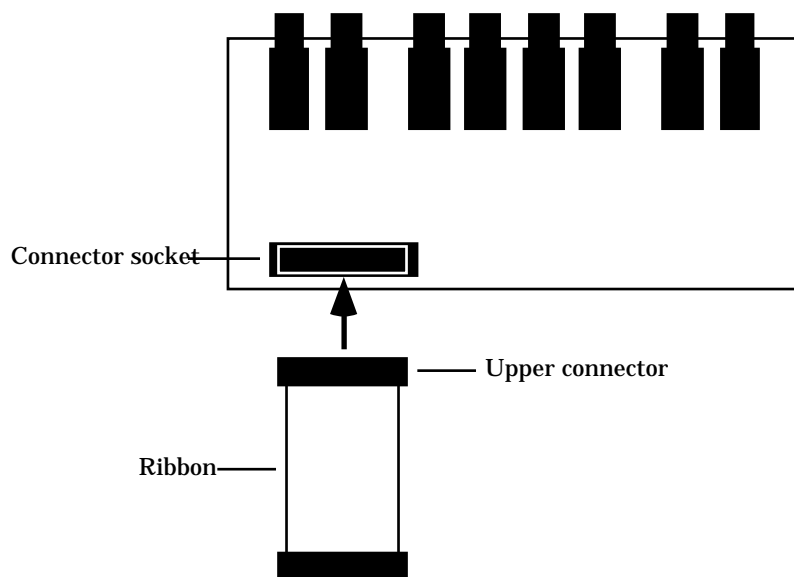| Aux Out 4		Aux Out 3		Aux Out 2		Aux Out 1	
Right	Left	Right	Left	Right	Left	Right	Left

4. Reach carefully inside and press the protective plate against the rear panel too keep the plate from falling into the ASR-X when you remove its screws.
5. Remove the four screws holding the plate in place, and lift the plate out of the ASR-X.

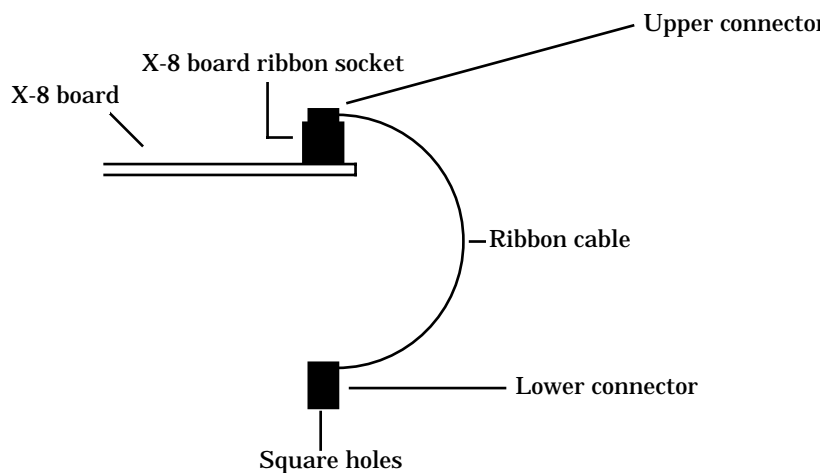## Attaching the Ribbon Cable

1. Position the X-8 board as shown in the illustration above.
2. Orient the ribbon cable so that the red stripe along its edge is on the left, and so that the large square holes in the upper connector are facing away from you while its small, rectangular holes are visible.

Upper connector — **Top: small rectangular holes**

Red line — Ribbon

Lower connector — **Bottom: evenly spaced, square hole**

3. Align the upper connector over the ribbon connector socket on the X-8 board.

Connector socket

Upper connector

Ribbon

4. Gently press down so that the pins in the socket go into the square holes on the underside of the upper connector. The connector's center bump ensures that it can only fit into the socket correctly—if the connector does not go in easily, make sure that you've followed the instructions above and that the pins in the socket are not bent.
5. Without actually inserting its eight output jacks through the ASR-X body's rear-panel holes, hold the X-8 board inside the ASR-X, ribbon cable-side-up, so that its output jacks are lined up with the eight jack holes on the rear panel.
6. Gently bend the ribbon cable underneath the X-8 board, as shown here in side view:

Upper connector

X-8 board ribbon socket

X-8 board

Ribbon cable

Lower connector

Square holes

The large square holes of the ribbon cable's unattached lower connector will line up over the ribbon connector socket on the ASR-X main board (the socket is next to the SIMM socket).
7. Gently press the connector piece into place in the ribbon socket on the main board.

Mounting the X-8

1. Insert the eight output jacks on the X-8 board through the eight holes on the ASR-X's rear panel—the jacks will protrude from the back of the ASR-X about 1/4". The screw mounts on the X-8 board will line up with the four screw holes the were previously used for the screws that held the protective plate in place.
2. Hold the board in position.

3. On the outside of the ASR-X's rear panel, screw each of the four screws supplied with your X-8 into place. They will go through the holes in the rear panel and screw into the mounts on the X-8 board.

Closing the ASR-X

Reposition the top panel of the ASR-X and reinstall the screws that you removed when you opened the ASR-X.