Internal ZipDrive Kit™ for the ASR-X

Introduction

-Imagine having a hard drive **inside** your ASR-X. What a convenience - no hauling the bulky hard drive with it's own power along! This **Internal ZipDrive Kit**™ gives you that capability, as well as including the external SCSI port for other devices to hook up with.

-The ZipDrive™ is perfect for internal installation into Ensoniq samplers. Three big reasons: **1)** the ZipDrive is powered by 5v, the same as the floppy, **2)** it comes in a handy 3.5 form factor, and **3)** the ASR-X is not reliant on the floppy drive for basic operation - especially because it does not "boot up" off the floppy.

Installation

Step One

Opening up your ASR-X

Make sure the power cable is unplugged from the ASR-X unit. Your ASR-X has many screws! Not only that, some are Hex screws. Fortunately, Ensoniq provides you with a hex wrench, so use that and a Phillips screwdriver to unscrew the proper screws.

Step Two

Removing the Floppy

Take out the floppy controller connecter and the power connector. Unscrew the four small Phillips head screws from the bottom of the ASR-X that hold the floppy in. Put these aside. Pull the floppy drive out.

Step Three

Removing the SCSI port

Remove your SP-5 SCSI board (if it is already installed) by unscrewing the back two hex screws (NOTE: these are smaller the the front panel Hex screws - fortunately, Ensoniq supplies the proper-sized hex wrench in the SP-5 package) and removing the 40-pin ribbon cable attached. Since the Kit requires a slightly longer 40-pin cable, put this aside as well.

Parts List

1	**Custom Cable** **MDB-50 Male - to** **50-pin IDC - to** **50-pin IDC/MDB50 converter**
1	**External Back Panel Jack** **50-pin IDC - MDB-50 female**
1	**Strips of Velcro**

Step Four

Installing SCSI port on top of the Power Supply cover

Use the provided strips of Velcro to hold the SP-5 SCSI Interface in place, by adhering them to the MDB50 adapter. Take the removed SP-5 SCSI board and plug in the large MDB50 adapter on the end of the Custom Cable. Plug the smaller custom 40-pin cable into the SCSI jack (marked J801), red edge facing to the front of the ASR-X, with other end into the SP-5 SCSI board. Then press the SP-5 UPSIDE DOWN (the componants facing downward), using the exposed adhesive of the Velcro to secure it to the power supply cover. The cable should fit snug up to the right inside panel of the ASR-X.

Step Five

Installing the ZipDrive

This is pretty much as removing the floppy, only in reverse. But before you attach the ZipDrive to the case, fold the 50-pin ribbon cable out of the adaptor and attach the first 50-pin connector to the ZipDrive. It "comes from under" the drive. Connect the floppy drive power supply cable into the ZipDrive, then bolt the ZipDrive in - use the same screws that held in the floppy to secure it.

Step Six

Placing the 50-pin Custom Cable to the External Back Panel Jack

The External Back Panel Jack is shipped with a back plate that needs to come off (just in case you might need it for something else). Screw it into the ASR-X's back panel (use the screws that are attached to the supplied back panel - the original Hex screws won't fit) to where the SCSI card used to be. Then fold the dangling 50-pin ribbon cable diagonally, place it into the Back panel jack.

Step Seven

Testing the Connections

Before you put everything back together, test the SCSI connections. First, put a PC formatted ZipDisk into the ZipDrive. Turn on the ASR-X, and after it has booted, press LOAD. It should say **Select Load Device? Floppy Disk**. (If it doesn't, the ASR-X has not detected the SCSI board itself.) To select the ZipDrive, turn the Value knob over 1 step. The ASR-X should start Scanning for SCSI Devices, and it should find the ZipDrive at 5. And you're set!

If it doesn't react in the way described, make sure all your connections are firmly placed - try disconnecting and reconnecting them as well. Keep trying - if you run into problems, give us a call. At first, don't try any other SCSI Devices in the chain. Once you have the ZipDrive running, then try your external SCSI devices.

Step Eight

Cleaning Up

Screw everything back in, being careful that you put all the proper screws in their proper places.

Important Note
This modification voids your warranty.
Ensoniq, when they existed, never approved this modification. Nevertheless, no ASR-X's are under warranty anyway.

This modification has been thoroughly tested and designed to cause no harm to your unit. However, we do not assume any liability towards your ASR-X and the installation of this modification.

In other words, although this is a fairly simple and safe modification, you assume all risk for damages.