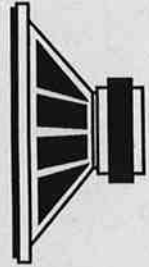


Sound Meister

Stereo Digitizer/Amplifier for your Apple IIgs!



Installation Manual

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Introduction

Welcome to the world of digital audio! Your new SoundMeister™ card opens up your Apple IIs to a whole new world in multimedia education, entertainment and excitement! You will soon be able to play rich, vibrant, colorful sounds and music as well as record your own audible creations. You will add sounds to your HyperStudio or HyperCard IIs stacks and play them back with high fidelity. You will live up your computing experience by creating fun system sounds and playing them back during specific events such as disk inserts/ejects. Additionally, any application that generates sounds using the Apple IIs' built in Digital Oscillator Chip (DOC) will now be able to do so in stereo. The Apple IIs has better built in sound generation capability than any other personal computer and you will soon hear why!

What is the SoundMeister?

The SoundMeister is an expansion card that plugs into one of the seven expansion slots located inside your Apple IIs case. It takes the audio signal produced by the IIs DOC and splits it up into two distinct channels providing a stereo output. The SoundMeister then amplifies these signals so you can hear the sound on a pair of regular speakers. For louder volume levels, the SoundMeister also provides a standard audio signal so you can plug it into the back of your home stereo equipment. Lastly, the SoundMeister provides the ability to record an audio source. Unlike other cards produced in the past, this source can be either a regular microphone or the output from your home stereo equipment!

What You Should Have Received

Before we get started, make sure that you received everything you were supposed to. The SoundMeister package should include: SoundMeister interface card, 7-Pin sound expansion cable, a disk labeled 'DigitalSession' and this manual.

Installation

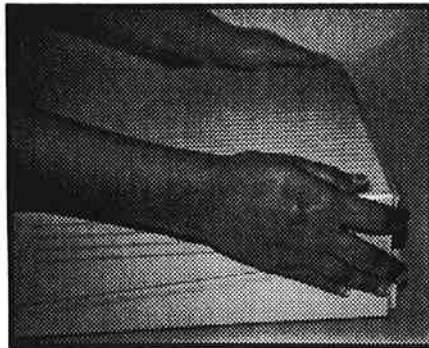
Installation of the SoundMeister is fairly simple and straightforward. It requires no tools other than a Philips head screwdriver, and can be performed in less than half an hour. It does, however, require opening your computer's case and possibly removing and replacing other expansion cards that may already be installed. If you are at all uneasy or unsure about performing this operation then we suggest taking your SoundMeister and Apple Iigs CPU to your nearest computer dealer and have them perform the installation for you. Better yet, contact your local Apple II user group for assistance. You will be most likely to find an enthusiastic member who would love to help you install your SoundMeister card. For the name and address of your nearest Apple II user group call the Apple User Group Connection at 1-800-538-9696 ext. 500. Be sure to indicate that you are looking for an APPLE II user group!

Prepare Your Work Area

To access your Apple Iigs expansion slots you will have to remove your monitor and any other external peripherals that may be in the way. We suggest disconnecting all cables from the back of your CPU and moving it to a work bench or table away from your computer desk. This gives you complete access to all angles of your Apple Iigs CPU.

Open The CPU Case

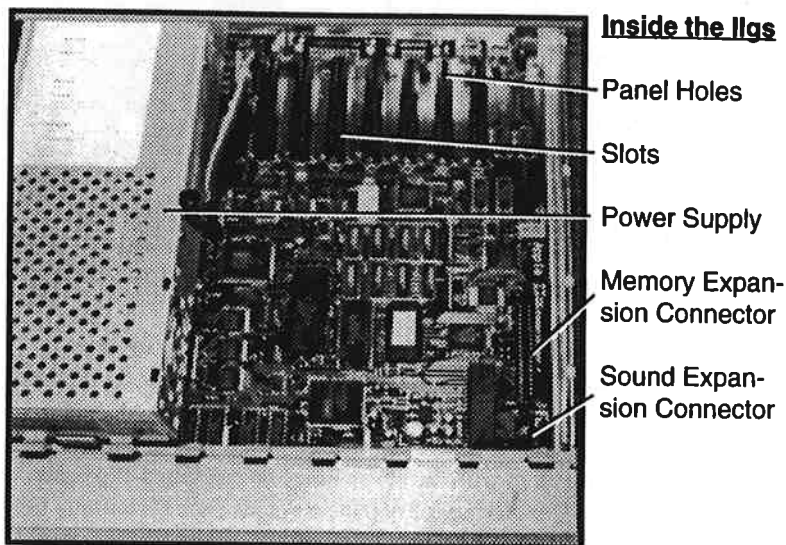
Depress the two plastic tabs at the rear of the CPU case while lifting up on the lid. This is best done by reaching around the back of the case, depressing each tab simultaneously with your index fingers while pushing up on the lid with the palms of your hands.



Removing The CPU Lid

Discharge Yourself Of Any Static Charge

With the Apple IIgs case open, locate the power supply. This is the large rectangular, metallic box at the left side of the computer. Touch your hand to the power supply (Note that while this method is considered safe, it is actually better to touch a metallic object that comes in contact with the floor such as a table or chair leg...).

***Locate The Expansion Slots***

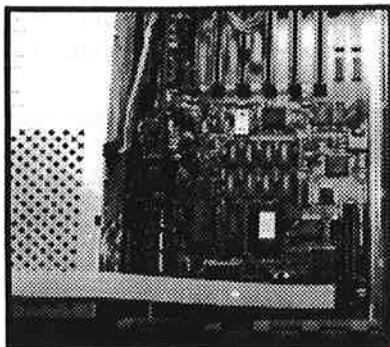
The expansion slots are arranged in a row of seven, towards the rear of your computer's logic board. Chances are, if you have a hard drive or other such peripheral, you already have a card in one of these slots. The slots are numbered from left to right, one through seven. Thus slot one is closest to your power supply while slot seven is furthest away. You may also notice a single 'slot' by itself toward the front right of the logic board. You may or may not have a card already plugged into this slot. This is your memory expansion connector and isn't really considered a slot.

The SoundMeister will be installed in one of the seven expansion slots. Exactly which slot is entirely up to you... you can place it in any one except slot number three. Most people will want to use either slot one or

slot two for their SoundMeister cards. Pick one of these slots unless you have another card already installed in them.

Install The Sound Expansion Cable

The sound expansion cable plugs into your Apple IIgs logic board at the sound expansion connector. The sound expansion connector is located just in front of the memory expansion slot. If you have a memory expansion card, you will want to remove it to allow easy access to the sound expansion connector.



Sound Expansion Cable

Take the sound expansion cable provided with your SoundMeister and locate the end which has a connector with a single row of seven holes. This connector plugs into the sound expansion connector on the logic board. There is only one way to comfortably plug the connectors together. Take extra care to make sure that all seven pins on the sound expansion connector align with the seven holes on the sound expansion cable. When plugged in, the sound expansion cable should naturally fall towards the power supply. You want this cable to run underneath the front of any other cards you may have installed in your computer.

At this point, if you removed the memory expansion card, plug it back into the memory expansion slot.

Remove A Panel Cover

At the back of the CPU case, near the slots, you'll notice several panel holes that are covered by plastic plates. These plates are designed to be removed by twisting the metal clips on the inside of your case counter-clockwise. There are three different size panel holes/plates. The SoundMeister input/output plate will be mounting in one of the largest panel holes. Exactly which panel hole is up to you but is largely determined by two factors: 1) it has to be a panel hole to the right of whatever slot your SoundMeister will be going in (a good reason NOT to choose slot seven for your SoundMeister card!), and 2) other expansion cards may be making use of some of these holes thus narrowing down your

choices.

When you decide which panel hole to use, remove its cover by rotating the metal clip counter-clockwise.

Install The Sound Input/Output Plate

The Input/Output connectors are mounted on a metal plate which is attached to your SoundMeister card by three shielded wires. This metal plate has a top and a bottom. The top of the plate has two 3.5mm mini-phone jacks grouped together, while the bottom has one 3.5mm mini-jack by itself. There are also two Philips-head screws on the metal plate. Remove the 'top' screw completely while unscrewing the bottom one approximately half-way. Position the metal plate inside the panel hole you just uncovered. Notice that there are two notches at the top and bottom of the panel hole to accommodate the mounting screws. Slide the half-removed screw into the bottom notch. Follow this by replacing the screw you removed through the back of the panel hole. Tighten up on both of these screws so that the metal plate is solidly mounted.

Install The SoundMeister Card

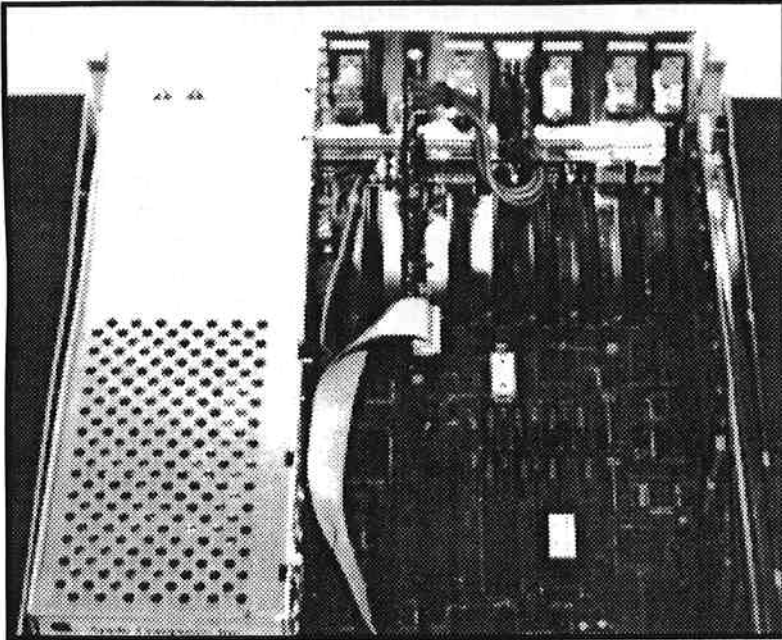
Insert the SoundMeister card into the slot you have chosen. Be careful to route the SoundMeister's three input/output audio cables around the back of any other cards that may be in the way. Do not route them over the top of any other card since the computer's lid does not provide the extra room to do so. You may want to consider removing any other cards that are in the way until you've installed the SoundMeister card.

When inserting the card, angle the back of the SoundMeister's edge connector towards the rear of the slot then push down towards the front of the card. Seating the card completely in the slot may require a bit of force. Be careful not to bend any of the components mounted on the SoundMeister card itself. When seated completely, you should just barely be able to see the top of the SoundMeister's gold plated edge connector.

Connect The Sound Expansion Cable

Fasten the end of the sound expansion cable with the double row connector to the 14-Pin header on the top front of the SoundMeister card. To do this requires coming 'up-and-over' the back of the card. When mating

the connector make sure that all of the pins are aligned correctly with the holes on the cable's connector. When installed, there should be no kinks or twists in the sound expansion cable. If the cable twists, then it is plugged in wrong!



SoundMeister Card - Completely Installed

Replace All Expansion Cards

If you removed any other cards during the installation process, replace them in their correct slots at this time. Make sure all cards are firmly seated, even if you did not remove them. When installing a new card in your Apple IIs it is quite easy to accidentally loosen a previously installed card.

Replace The Lid

Replacing the Apple IIs lid is the reverse of removing it. The lid pivots on the plastic 'fingers' at the front of the case. Lower the back of the lid until it meets friction with the two plastic tabs at the rear, then press firmly but gently until it snaps closed.