

Genesis MP

User Guide



DayStar Digital, Inc.
Technical Support Department
5556 Atlanta Highway
Flowery Branch, GA 30542
770-967-2077 fax: 770-967-3018
<http://www.daystar.com/>

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CANADIAN RFI REQUIREMENTS

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la classe A prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



IMPORTANT:

Changes or modifications to this product not authorized by DayStar Digital, Inc., could void the FCC Certification and negate your own authority to operate the product.

This product was tested for FCC compliance under conditions that included the use of DayStar peripheral devices and DayStar shielded cables and connectors between system components. It is important that you use FCC compliant peripheral devices and shielded cables and connectors between system components to reduce the possibility of causing interference to radios, television sets, and other electronic devices. You can obtain DayStar peripheral devices and the proper shielded cables and connectors through a DayStar-authorized dealer. For non-DayStar peripheral devices, contact the manufacturer or dealer for assistance.

Lithium Battery

Genesis MP uses a lithium battery to store users' preferences and time and date information while the unit is not turned on.



CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

CD-ROM Drive



CAUTION

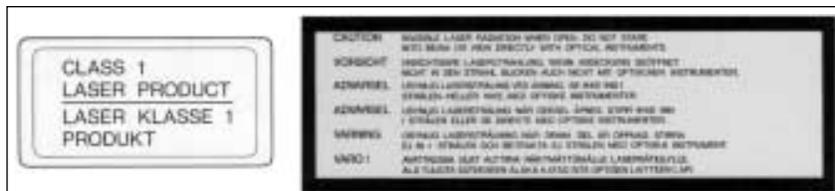
Making adjustments or performing procedures other than those specified in your equipment's manual may result in hazardous exposure.



CAUTION

Do not attempt to disassemble the cabinet containing the laser. The laser beam used in this product is harmful to the eyes. The use of optical instruments, such as magnifying lenses, with this product increases the potential hazard to your eyes. For your safety, have this equipment serviced only by a DayStar-authorized service provider.

If you have an internal DayStar CD-ROM drive in your Genesis MP, your computer is a Class 1 laser product. The Class 1 label, located in a user-accessible area, indicates that the drive meets minimum safety requirements. A service warning label is located in a service-accessible area.



About Genesis MP

The Media-Publishing Workstation for the Next Century

Congratulations. You own the new standard in the computer industry—the DayStar Genesis MP. Now Macintosh users can have the speed they associate with expensive, high-end workstations—but at a reasonable price. DayStar Digital is pleased to have signed an agreement with Apple Computer, Inc. to build Genesis MP, a next-generation platform for the Mac OS.

Genesis MP is the fastest Mac OS based system available—the first Mac OS based computer with speed built-in. Using its expertise in multiprocessing, DayStar created Genesis MP with internal multiprocessing hardware and software. Adopted by Apple, DayStar's nPOWER multiprocessing extensions to the Mac OS are now the official standard for multiprocessing on the Mac.

As computer software becomes more sophisticated, designers, illustrators, video editors, animators and multimedia producers will require a machine that's fast enough to keep pace with their flow of ideas. Genesis MP is a Media-Publisher's dream come true.

Genesis MP will run the software you know at speeds you have only imagined.

First— Genesis MP begins with a fast, upgradable PCI-bus motherboard, featuring 2 SCSI busses, Ethernet, 16-bit stereo sound and room for ample memory expansion.

Then— DayStar adds its nPOWER scalable multiprocessing technology (which includes both hardware and software), a fast tray-loading CD-ROM drive and a solidly-built tower case with 10 drive bays, 350 watt power supply and three large cooling fans for improved system reliability.

At the heart of Genesis MP is nPOWER—DayStar's upgradable processor card, which features four PowerPC 604 processors. A single PowerPC 604 chip, running at 132 MHz executes instructions 50% faster than the 110 MHz PowerPC 601 CPU used in the Power Macintosh 8100.

nPOWER's multiprocessing is very efficient—the quad processor nPOWER card can nearly quadruple the speed of multiprocessing applications. Since the processors are on a card, Genesis may be upgraded as faster and more advanced processor technology becomes available.

To allow programs to take advantage of nPOWER's speed, DayStar has developed an open multiprocessing API (Application Programming Interface). The API makes it very easy for programmers to add multiprocessing support to applications. The API standard is available to all interested developers.

Apple has acquired the rights to DayStar's nPOWER architecture. With Apple's commitment, nPOWER (now known as the Apple Multiprocessing Application Programming Interface) is assured of software support in future versions of the Macintosh operating system. Software developers that provide support for nPOWER include Adobe, Metrowerks, Strata, Elastic Reality and many others.

Three Configurations to Best Meet Your Needs

(3) Slot Genesis MP

The entry level three slot Genesis MP provides multiprocessing PowerPC 604 performance without the extensive memory and PCI slot expansion of the six slot unit. It's on-board graphic display provides fast, entry level performance supporting resolutions up to 1,152 x 870 at 24-bit (with additional 2 MB VRAM expansion). The three slot unit's 8 DIMM sockets support up to 1 GB of RAM using 128 MB DIMM modules. This Genesis MP model also provides 24-bit Multimedia video input.

(3) Slot Genesis MP w/ Multimedia Video Out

This three slot Genesis MP configuration provides all of the features of the three slot system above, but adds Composite and S-Video output.

(6) Slot Genesis MP

The six slot Genesis MP offers the ultimate performance and expandability for running the Mac OS. This Genesis MP model provides six total PCI slots allowing users to tailor the system for their specific needs. The 12 DIMM sockets provide for RAM expansion up to 1.5 GB, 50% greater than the three slot Genesis MP. And with six PCI slots, users can create their own "ultimate workstation" using the latest technology such as SCSI-3, Fast Ethernet, even professional quality audio/video capability.

Component Description	3 Slot 001374	3 Slot 001398	6 Slot 001381
nPOWER Quad 604 Board†	120MHz	120MHz	132MHz
512K Secondary Cache	✓	✓	✓
CD-ROM Drive	✓	✓	✓
1.4 MB Floppy Drive	✓	✓	✓
PCI Expansion Slots	3	3	6
5.25" Internal Bay	1	1	1
Internal 3.5" Internal Drive Bays	7	7	7
DIMM Sockets	8	8	12
350 Watt Power Supply	✓	✓	✓
Dual Internal Cooling Fans	✓	✓	✓
Front Mounted Power Switch	✓	✓	✓
Locking Side Panel	✓	✓	✓
Power-on Light	✓	✓	✓
Monitor Power Socket	✓	✓	✓
External SCSI Port	✓	✓	✓
Ethernet AAUI Port	✓	✓	✓
Ethernet 10BASE-T Port	✓	✓	✓
Printer Port/GeoPort	✓	✓	✓
ADB Port	✓	✓	✓
Modem Port/GeoPort	✓	✓	✓
Sound Input/Output Ports	✓	✓	✓
Monitor Port	✓	✓	
Audio Input/Output Ports	✓	✓	
Composite Video Input Port	✓	✓	
Composite Video Output Port		✓	
S-Video Input Port	✓	✓	
S-Video Output Port		✓	

Genesis MP is Built for Expandability

The large number of DIMM memory slots allow you to plug in additional DIMMs without removing existing memory. The large power supply and many drive bays mean that you won't outgrow your Genesis.

The full-access design of Genesis MP's case makes expansion even easier. Just open the side door and you can add storage devices, memory, and PCI expansion cards with ease. By comparison, the Power Macintosh 9500 requires complete disassembly of the case to access memory slots.



Adding Memory to the Apple Power Macintosh 9500



Adding Memory to the DayStar Genesis MP

A Next-Generation Solution that Works Alongside Today's Technology

Since Genesis MP runs the Mac OS, your transition to multiprocessing speed is an evolution, not an experiment. You can retain your favorite applications and working environment. Genesis MP accepts your existing SCSI peripherals and network connections, and you can add even faster peripherals in the future via the PCI bus.

Genesis MP Takes on the Field

In the competitive world of high-performance platforms, Genesis MP has some important advantages which set it apart from UNIX workstations, such as those from Silicon Graphics, and other Mac OS platforms.

- Genesis MP is the ultimate in speed, expandability, and upgradability. DayStar provides more machine than you can get from Apple or any other vendor of Mac OS based systems. Its ample expansion space, beefy power supply and processor upgradability make it the Mac OS workstation of choice.
- Where the criterion is speed, Genesis MP has it. Fast SCSI-2, fast PCI expansion, fast processors and more of them. More speed means jobs get done quicker and the workstation is available for more paying work. And designers can spend more time grappling with creative issues and less time watching the progress bar.
- Because Genesis MP is built on the Mac OS, you'll have access to thousands of popular and well-known applications. By contrast, UNIX systems are often specialty installations, designed to run a small suite of applications.
- Software for UNIX machines is very expensive, sometimes running into tens of thousands of dollars for critical applications. Because the installed base of Mac OS systems is so much larger than that of any of the specialized workstations, competitive pressures keep prices reasonable and software updates coming on a regular basis.
- UNIX is a very powerful operating system, but also very complex. Graphical interfaces which run on top of UNIX can make life easier, but your creative staff still has to learn an entirely new environment, with syntax that is similar to MS-DOS—only more cryptic. You'll certainly need a knowledgeable UNIX system administrator, either on-staff, or as a regular consultant. Mac OS is powerful, flexible, easy, and in use by 70% or more of the publishing industry today.

A Fine-Tuned Solution for Media-Publishing

Genesis MP – DayStar's high performance Media-Publishing system built around the Mac OS – uses a revolutionary new multiprocessing (MP) technology developed in partnership with Apple Computer. Genesis MP is the first and only Mac OS based platform designed explicitly for the workstation user – a platform that has the ease of use and broad application base of the Macintosh with more processing power than hard-to-use UNIX-based workstations from SGI and Sun Microsystems.

If you own a business you don't have to learn a new operating system or retrain your staff. Your current staff can perform all of the typical system chores with Genesis MP, and you can hire from a broad pool of talented artists, designers and other creatives.

Genesis MP is delivered with a multiprocessing extension to Adobe Photoshop 3.0.4 or greater which accelerates hundreds of functions across multiple processors. Its huge memory expansion and fast disk access make Genesis MP ideal for image editing applications.

Print publishers will enjoy the large available storage and fast disk access. Service bureaus have plenty of room for multiple hard drives for server and array use. The multiple processors and large memory speed RIPing of complex artwork.

3-D illustrators and animators are able to make use of the huge memory expansion capability to design more complex scenes. Multiprocessing acceleration allows for faster renders, making it easier to use ray-tracing, particle systems, and gases. The fast SCSI-2 interface allows animators to play back animations directly to video tape via third party PCI video cards.

Video editors and multimedia producers will love the high speed disks for video recording. The fast PCI bus and disks allow higher throughput for highest quality video recording and playback. Multiprocessing speeds video compression to QuickTime, JPEG, and eventually MPEG formats.

Toward the Future

As your creative needs grow, so will your demand for processing power. In the future, it will become commonplace for desktop computers to have memory as large as today's hard disks. Increased use of imagery, animation, virtual reality technology and full motion video will test the limits of all but the most agile computing platforms.

Genesis MP can meet the challenge, with the features and expandability to satisfy the needs of the Media-Publisher today—and into tomorrow.

Setting Up Your Genesis MP

Unpacking Your Genesis MP

It's time to take your new Genesis MP out of the box and set it up!

Genesis MP comes with:

- Genesis MP system
- Mac OS
- Multiprocessing system software
- Genesis MP User's Manual
- Warranty card
- Power cord
- Anti-Static wrist strap
- Mouse
- Keyboard with ADB cable

You'll also need:

- Monitor with power cord
- Monitor cable
- PCI graphic card (only required for 6 slot Genesis MP)

Choosing a Work Space

Genesis MP was designed to be placed on the floor. That's so you can use your whole desk as a work area. If you want to place Genesis MP on your desk or on another raised surface, you must be sure that the surface is strong enough to hold everything that goes with your unit.

Your Genesis MP weighs approximately 50 lbs. all by itself. And remember, your monitor and other peripherals will add even more total weight. But whatever you decide, you'll want to place your Genesis MP on a sturdy, flat surface near a grounded three-hole wall outlet.

Important External Components of Your Genesis MP

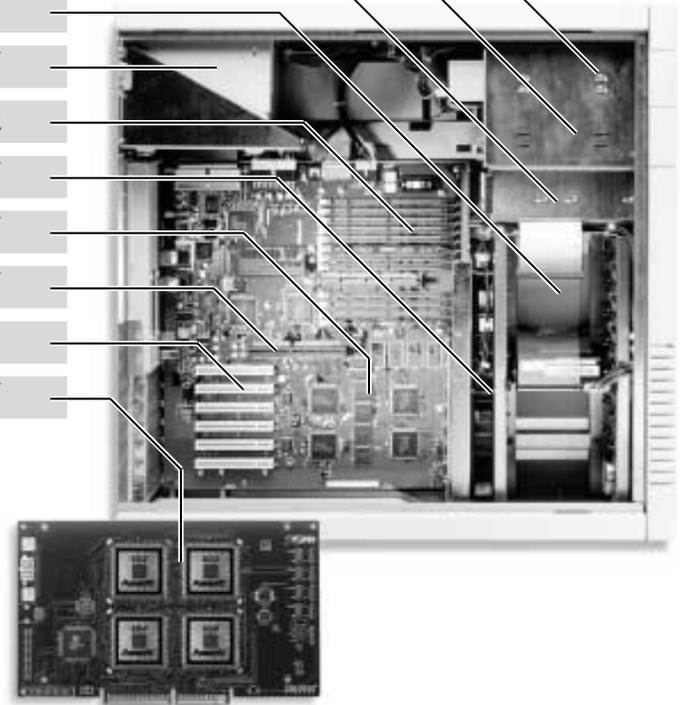
This photograph lists all the important external components and features of your Genesis MP. This graphic will help you follow along with the following set-up instructions. (No check mark means that a particular model does not provide the listed capability without the use of a third party PCI expansion card.)

Component	3 Slot	3 Slot w/video out	6 Slot
Monitor Power Socket	✓	✓	✓
~ Power Socket	✓	✓	✓
External SCSI Port	✓	✓	✓
Ethernet AAUI Port	✓	✓	✓
Ethernet 10BASE-T Port	✓	✓	✓
Modem Port/GeoPort	✓	✓	✓
Monitor Port	✓	✓	
ADB Port	✓	✓	✓
Sound Input Port	✓	✓	✓
Sound Output Port	✓	✓	✓
Printer Port/GeoPort	✓	✓	✓
PCI PCI Expansion Slots	3	3	6
Audio Input Ports	✓	✓	
Audio Output Ports	✓	✓	
Composite Video Input Port	✓	✓	
Composite Video Output Port		✓	
S-Video Input Port	✓	✓	
S-Video Output Port		✓	
Power Switch	✓	✓	✓
CD-ROM Drive	✓	✓	✓
5.25" Internal Bay	1	1	1
Locking Side Panel	✓	✓	✓
1.4 MB Floppy Drive	✓	✓	✓
Power-on Light	✓	✓	✓
Cooling Vents	✓	✓	✓

Important Internal Components of Your Genesis MP

This photograph lists all the important internal components and features of your Genesis MP. This graphic will help you follow along with the following set-up instructions.

Component	3 Slot	3 Slot w/video out	6 Slot
CD-ROM Drive	✓	✓	✓
5.25" Internal Bay	1	1	1
1.4 MB Floppy Drive	✓	✓	✓
Internal 3.5" Internal Drive Bays	7	7	7
350 Watt Power Supply	✓	✓	✓
DIMM Sockets	8	8	12
Dual Internal Cooling Fans	✓	✓	✓
512K Secondary Cache	✓	✓	✓
nPOWER Card Connector	✓	✓	✓
PCI Expansion Slots	3	3	6
nPOWER Quad 604 Board	✓	✓	✓



Plugging in Your Genesis MP

Before you begin, please take a few extra minutes to read the rest of the set-up instructions in this chapter.

Before you plug anything into your Genesis MP, first plug your unit into the grounded three-hole wall outlet first. The plug grounds the machine and protects it from any electrical damage that might occur while you are setting up your Genesis MP.

Now—

1. Plug the socket end of the power cord into the recessed power socket on the back of your Genesis MP. It's marked with this symbol ~.
2. Then plug the other end into a three-hole grounded outlet or power strip.

Note: The only way to completely disconnect your power is to unplug it. Therefore, be sure that at least one end of the power cord is within your easy reach.



CAUTION

Your Genesis MP is equipped with a three-wire grounding plug—the third wire is the grounding pin. This plug will only fit into a grounded AC outlet. But this safety feature won't do you or your Genesis MP any good if you ignore it. Don't use any device [like a cheater plug] to override this important safety feature. If your work space doesn't have a grounded AC outlet, call a licensed electrician and install one.

Expansion Cards

If you have PCI cards to install, you can do so now. Read and follow the documentation that came with each piece of equipment you are installing and also consult Chapter 3 of this manual for installation instructions.

Remember: A PCI graphics card is required for operation of your six slot Genesis MP. If it was not already installed in your Genesis MP, you must install one now. The six slot Genesis MP won't run without one.

If you are new to Mac OS based systems or plan to install a large number of cards, we suggest that you get your Genesis MP up and running successfully before adding additional cards.

SCSI Devices

If you have additional SCSI devices to install, you can do that now as well. Read and follow the documentation that came with each piece of equipment you are installing.

Again, if you are new to Mac OS based systems or plan to install a large number of peripherals, we suggest that before installing any additional devices, you get your Genesis MP up and running successfully.

Connecting Your Monitor

3 PCI

Please check this first:

Be sure that the monitor is compatible with either the PCI graphics card or the motherboard graphics of the three slot Genesis MP, whichever you will be using.

Note: Some monitor/graphics port combinations may require special cables or adapters for their proper operation. Read the documentation that came with your monitor or graphics card to determine if you will need special cables or adapters. Three slot Genesis MP: The motherboard graphics of this machine do not support “sync on green” monitors. If you are uncertain which type of monitor you have, contact the vendor.

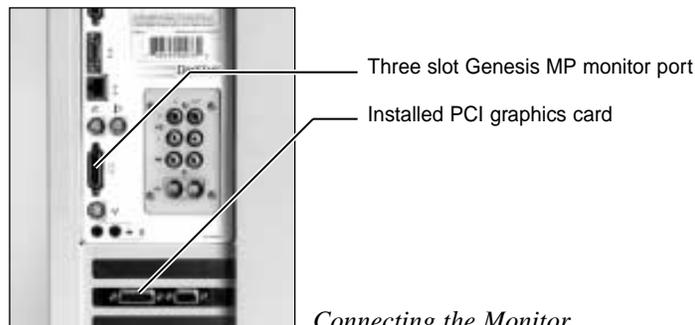
Here’s how to set up and connect your monitor.

- Place the monitor near your Genesis MP.
- Position your monitor to minimize glare and reflections. Overhead lights and windows are usually the cause of distractions.
- Position the top of the screen at slightly below eye level when you’re sitting at the keyboard.
- Give your monitor and Genesis MP enough space to breathe! Your Genesis MP has three internal fans to ensure adequate cooling and air flow. For these fans to operate properly, it is important that you provide a few inches for air circulation around the vents at the front, rear and left hand side of your Genesis MP.
- Connect the power cord that came with your monitor into the back of your monitor. (Some monitors may have built-in cords.)
- Now you’re ready to plug the monitor power cord into either the back of your Genesis MP—or into a three-hole grounded electrical outlet, depending on the type of power cord that came with your monitor.

Note: Some monitor power cords are designed to plug into the back of your Genesis MP and some must be connected to a grounded electrical outlet, not your Genesis MP. Check your monitor documentation to be sure.

After you plug in the monitor power cord, you can connect the monitor to your Genesis MP’s monitor port or an installed PCI graphics card.

- Connect the monitor cable to the monitor if it is not already attached.
- Connect the monitor cable to your Genesis MP’s monitor port or an installed PCI graphics card.



Connecting the Monitor

If you wish to place your Genesis MP on the floor and have purchased a non-Genesis MP keyboard, be sure that the keyboard and video cables that you use will be long enough to reach the floor. If you need a longer cable or an extender, you can contact Global at 800-845-6225, Inmac at 800-547-5444 or your DayStar Authorized Reseller.

You have a choice of several keyboards to use with your Genesis MP—some have a separate cable and others have a built-in cable.

Note: Some monitors have a port for your keyboard or mouse. If you wish to use this feature, see the specific documentation that came with your monitor.

Connecting a keyboard with a built-in cable.

- The plug and port are marked with the  icon or symbol. A port marked with this icon is called an Apple Desktop Bus (ADB) port. Plug the keyboard cable into the ADB port at the back of your Genesis MP. Match the symbols before you insert the plug.
- Plug your mouse into the keyboard. If your keyboard has more than one ADB port, you have a choice where to plug in the mouse. Match the symbols before you insert the plug.

Connecting a keyboard with a separate cable.

- The plug and the ADB port are both marked with the same  icon. Match the symbols before you insert the plug.
- Now you can plug the keyboard cable into the other port on the keyboard. Match the symbols before you insert the plug.

If you plugged the mouse cable in on the right, then you will plug the keyboard cable in on the left. Both ends of the cable are the same.

- Plug the keyboard cable into the ADB port marked with the  icon on the back of your Genesis MP.



CAUTION

Be sure not to connect or disconnect the keyboard or mouse cables while your Genesis MP is turned on. This can cause damage.

Turning on Your Genesis MP

First, turn on your monitor.

If your monitor's power cord is plugged into the rear of your Genesis MP, you can simply leave the monitor turned on and it will automatically be turned on and off when your Genesis MP is turned on or off.

You can turn on your Genesis MP's power in two ways:

- By pressing the power key  on your keyboard, or
- By pressing the power button on the top left hand corner of your Genesis MP.

You will hear a tone from your Genesis MP as it starts up.

When you look at the image on your monitor, you should see:

- The Mac OS logo followed by the Mac OS desktop.

Note: Because a self test is performed when you turn on your Genesis MP, it will take more time for the screen image to appear if you have a large amount of memory installed in your Genesis MP.

If you see a blinking question mark, please turn to Chapter 5—Troubleshooting.

If you see anything else or if you see no image at all, please check the following:

- Is the green light on the front of your Genesis MP turned on? This would show that your Genesis MP is on and is receiving power.

If not:

Is the power cable properly installed into your Genesis MP and into an electrical outlet?

If the power cord is plugged into a power strip or wall outlet that can be turned on and off, is the outlet or strip turned on?

Check to be sure that the keyboard cable is firmly connected to your Genesis MP and to the keyboard.

- If the monitor has a power light, is it turned on? This would show that the monitor is on and receiving power.

If not:

Is the monitor's power cable properly installed into your Genesis MP or into an electrical outlet?

Check the Brightness and Contrast controls on your monitor. Are they turned all the way down? Now is a good time to adjust them.

Shutting Down Your Genesis MP

Your machine should be shut down properly to ensure that your documents are saved and that the hard drives are prepared for being powered off.

- Once in the Finder, select Shut Down from the Special menu, or
- Press the keyboard's power key .

Both of these methods prepare your Genesis MP for a quicker restart and remind you to save your work before turning off the power.

Note: You should not use the power button on the top left hand corner of your Genesis MP to turn off your Genesis MP. This button does not perform the recommended shut down procedure and should only be used to start your Genesis MP or to restart the unit if the restart command key combination (Command-Control-) is ineffective. In some rare instances, it may become necessary to remove your Genesis MP's power cord in order to shut the unit down.

Where to Go From Here

Now that you have set up your Genesis MP, it's time to learn about its many helpful features.

Chapter 2: Help is at Your Fingertips outlines the various ways that your Genesis MP itself can help you with some questions and problems you may encounter.

Chapter 3: Connecting Additional Peripherals gives you step by step instructions for connecting or installing the most common expansion devices to your Genesis MP.

Chapter 4: Genesis MP Software provides instructions on installing the necessary Genesis MP software.

Chapter 5: Troubleshooting addresses common problems and provides solutions you can understand.

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Help is at Your Fingertips

The Macintosh Tutorial

If you are new to the Mac OS (Operating System), or there's something you've forgotten or something you would like to understand a little bit better, the Macintosh Tutorial has the answers. This tutorial will give you the help you need to understand the basic skills necessary to operate the Mac OS.

To run the Macintosh Tutorial, go to the top right-hand corner of your screen. Select Macintosh Tutorial from the question mark  menu on the menu bar.



Follow along with the tutorial.

Note: Macintosh Tutorial must be installed from the Mac OS CD-ROM before you can use it.

Balloon Help

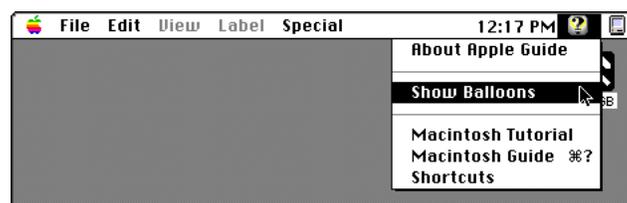
Another helpful source on your desktop is Balloon Help. Sometimes you'll see an unfamiliar item on the screen and wonder, "What's that?"

You can easily find out by using Balloon Help.

Like in a comic strip, Balloon Help explains the function of icons, menus, commands and other items on your screen. The answers pop up and speak to you from inside the balloons.

Here's how to activate Balloon Help—

1. Click once and hold down the mouse button as you pull down the Guide menu (marked with the  icon). Drag or pull down the arrow until it rests on the words Show Balloons. It will be highlighted. Release your mouse and Show Balloons will be active.



2. With your mouse, point to any object on the screen and a balloon will appear—pop up next to that object.

For example: If you point the arrow at the gray bar at the top of a window, a balloon will identify it as a window's Title bar. Next it will say that to move the window, you can position the pointer in the title bar and drag the window.

Try it. See—you can move the window.

You can even keep on working if a balloon is speaking to you!



- 3 But soon you will want to turn it off. And that's real easy. Just go back to the Guide menu and select Hide Balloons.

Note: Some applications may not provide information via Balloon Help. It is up to the software developer to support this feature.

The Macintosh Guide

The Macintosh Guide menu is your main source of information when you're working with your Genesis MP. The information in this chapter will help you learn about the Guide menu—your immediate source for help.

The menu is identified by a question mark  located in the upper-right corner of your screen.

Note: Apple Guide may not be available with extensions disabled or if it is not installed properly.

Getting Answers

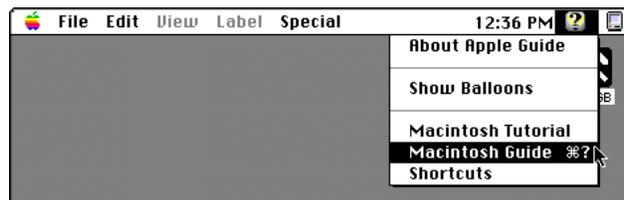
If you have a question when you're working with your Genesis MP, choose the Macintosh Guide from the Guide menu to get the answer.

Here's How—

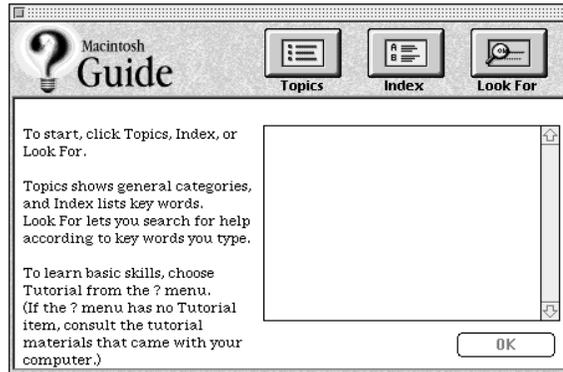
1. Pull down the Application menu (just to the right of the ) and choose Finder. You have now made Finder your active program. A check mark in the menu verifies that the Finder is now active.



- 2 Pull down the Guide menu (marked with the  icon) and choose Macintosh Guide.



The Macintosh Guide window will appear in front of your other windows. But if the window gets in your way, just move it by dragging the title bar (remember the gray bar across the top of the window).



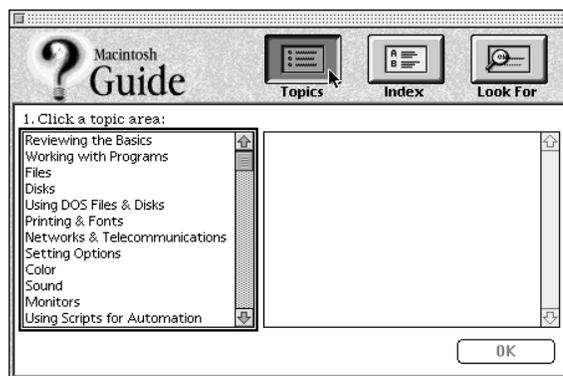
3. There are three buttons at the top of the window—Topics, Index and Look For. They represent the three different ways to get information.
 - Topics lets you choose from a list of general subjects—like a table of contents.
 - Index lets you choose from an alphabetical list of more specific subjects.
 - Look For lets you search for information by typing a specific word or phrase.

In the following sections you can practice using each method. If you have problems using the Macintosh Guide, please turn to Things to Remember at the end of this chapter.

Using the Topics button

1. Click on the Topics button at the top of the Macintosh Guide window.

A list of general topics will appear on the left side of the Macintosh Guide window. Your list may look different, reflecting the hardware and software on your Genesis MP. This would be a good time to look at the list of topics and become aware of the areas where help is available.



2. Click on a topic area.

For example: Select Setting Options from the list of topics. A list of related questions will appear on the right side of the Macintosh Guide window.

- Pick the question that addresses your problem. Let's click on the question, How do I set the time and date? and then click OK. A small window will appear with your answer.

Tip: A quicker way to reach the answer window is to double click on the question.

- Read the step-by-step instructions in the window. As you complete each step, click the right arrow in the lower-right corner to see the next step. If you want to recheck a step, click on the left arrow in the lower-right corner and go back to the previous step.
- You may click on the Topics button in the lower-left corner to return to the main Macintosh Guide Window.

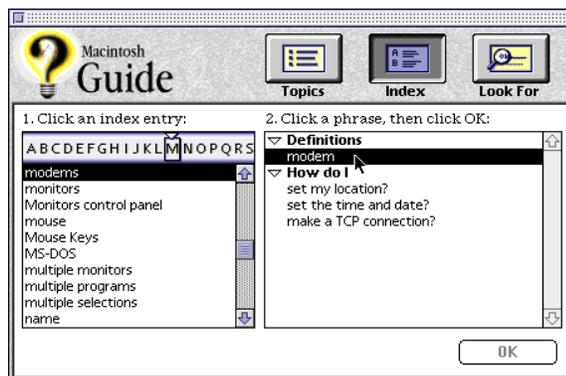
Using the Index Button

- Click on the Index button at the top of the Macintosh Guide window. An alphabetical list of subjects will appear on the left side of the window.
- Scroll through the list and look at the index entries. You can scroll by using the scroll bar at the right of the list or by dragging the slider to the letter you wish to read.

Let's say you want to learn more about modems.

- Click on the word modems in the alphabetical list.

When you click on any index entry, a list of related questions will appear on the right side of the Macintosh Guide window. One of the choices for modem is definitions. This is a good way to learn the definitions of many computer-related terms.

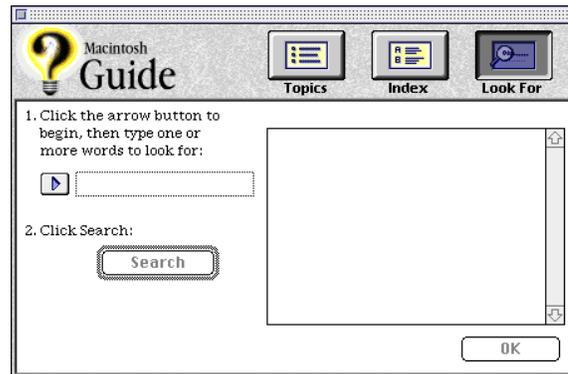


- When you click on What is a modem?, you learn two things.
 - A modem is a device that enables a computer to communicate with another computer over ordinary telephone lines, and
 - A modem converts digital information into analog signals that can be transmitted over telephone lines.

The third way to get information from the Macintosh Guide is the Look For button.

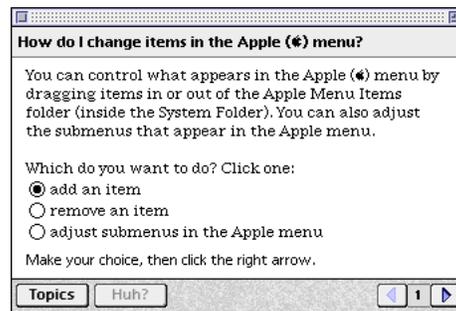
Using The Look For button

1. Click on the Look For button. A small box will appear on the left side of the window with instructions for typing your question.



2. First click on the arrow to activate the text box.
3. If you want to change your menu items, but don't know how, type in the word menu and click on Search.
4. Then click on the question, How do I change items in the Apple menu?

A box will appear and you can choose to learn about adding an item, removing an item or adjusting submenus in the menu. Read and follow the instructions in the box to make your choice.



5. As you follow the instructions in the box, use the arrows in the lower-right corner to move from one instruction to the next. The right arrow goes forward and the left arrow goes back. Don't skip ahead. Do each thing in the order you are asked.

At the bottom of your screen is another helper—the Huh! button. If you're just not sure about what you've read and would like even a little more explanation, try Huh! If there is more information, you'll see it. If the button is dimmed, that means that all the information has been shown.

6. When you are done, click on the close box in the upper-left corner to close Macintosh Guide.

Things to Remember

- Macintosh Guide is operational only when you activate the Finder. To activate the Finder, select it from the application menu to the right of the question mark.
- You may read ahead only when you are looking at the menu choices. This will give you an idea of what topics are available.
- When you are responding to the instructions in the answer window, don't skip ahead or read ahead. Follow each step in order. That way your computer can check to make sure you've completed a step correctly.
- There are three ways to get help—by Topics, by Index and by Look For (you name the subject).
- The Macintosh Guide window will always stay in front of any other windows on the screen. That way, your instructions will never be covered.
- You can move your Guide window by dragging on the gray title bar at the top of the window.
- You can also move the window by clicking the zoom box in the upper-right corner. Click the box once to shrink the window. Click it a second time to return the box to its original size.
- Click the Huh button if you need more information about an instruction or a term.
- If the Huh button is dimmed, there's no additional information available.
- Click on the Topics button in the lower-left corner to return to the main Macintosh Guide window.
- Click the close box in the upper-left corner to exit Macintosh Guide.

Connecting Additional Peripherals

Genesis MP has the ability to grow and expand more than any other Mac based platform.

This chapter gives you instructions for connecting or installing the most common expansion devices to your Genesis MP. If you want to install a peripheral that's not covered in this chapter, please consult the instructions that came with your piece of equipment.

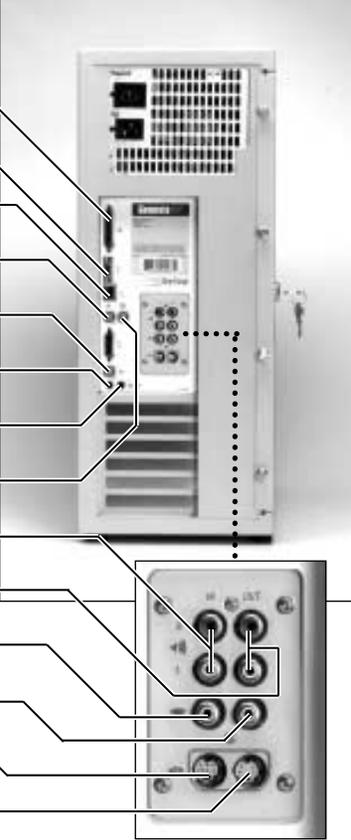
Note: It's important that your Genesis MP is turned off before you connect or install any hardware devices.

Note: If you wish to add an expansion device to your Genesis MP, it must be compatible with the unit. Please read the specifications that came with the product. Genesis MP supports most products that are compatible with Apple's Power Macintosh 7500, 8500 and 9500. If you are unsure of the product's compatibility, contact the reseller or product's manufacturer.

Adding External Devices to Genesis MP

The illustration below shows the basic external ports (or connecting points) of Genesis MP which will be covered in this section. For a complete listing of basic components, please refer to Page 14 of this manual, *Important Components of your Genesis MP*.

Port/Connector	3 Slot	3 Slot w/video out	6 Slot
 External SCSI Port	✓	✓	✓
 Ethernet AAUI Port	✓	✓	✓
 Ethernet 10BASE-T Port	✓	✓	✓
 Modem Port/GeoPort	✓	✓	✓
 ADB Port	✓	✓	✓
 Sound Input Port	✓	✓	✓
 Sound Output Port	✓	✓	✓
 Printer Port/GeoPort	✓	✓	✓
 Audio Input Ports	✓	✓	
 Audio Output Ports	✓	✓	
 Composite Video Input Port	✓	✓	
 Composite Video Output Port		✓	
 S-Video Input Port	✓	✓	
 S-Video Output Port		✓	



ADB Devices

ADB stands for Apple Desktop Bus. It's on the back of your Genesis MP and is used to attach components to your unit. The keyboard, mice, trackballs, drawing tablets, game controllers, and other input devices, are examples.

Genesis MP's ADB port (connecting point) can handle up to three devices, chained together. You've already installed the typical ADB input devices when you set up your Genesis MP.

Most ADB devices receive power through the ADB cable from Genesis MP and therefore do not have to be connected to an electrical outlet.

Remember, your Genesis MP must be turned off before adding or removing all ADB devices.

Serial port/GeoPort Devices

Genesis MP provides two combination serial port/GeoPort connectors  and , for attaching external modems, local printers, LocalTalk networks or GeoPort Adapters. Consult the documentation that came with the device for specific installation and operating instructions.

Note: Be sure that Genesis MP and the device you are installing are turned off before attempting the installation.

Network Support

Genesis MP supports both 10 Mb Ethernet and LocalTalk networks.

An Ethernet network can be connected via Genesis MP's built-in 10BASE-T or AAUI ports . The AAUI port requires the use of a standard transceiver, which can provide a thin coaxial, thick coaxial or 10BASE-T network connection.

Genesis MP also supports standard LocalTalk networks via the Printer port .

Note: Having more than one network port active at one time requires version 1.1 or greater of Apple's Open Transport extension.

External SCSI Devices

SCSI, pronounced "skuh-zee" means Small Computer System Interface. The SCSI ports on your Genesis MP permit high-speed communication between your SCSI devices. Genesis MP has two SCSI buses, one for internal storage devices and one for internal/external connections. The internal hard disk drive and CD-ROM in your Genesis MP are connected to the fast internal SCSI interface. The external SCSI port can be found on the back panel of your Genesis MP. It's marked with the symbol .

You can chain together multiple SCSI devices. The first device is plugged into the port at the back of your machine. The rest plug into each other. Genesis MP allows you to chain together seven SCSI devices on the external port.

Before You Install Anything

Note: If the device you are installing requires device drivers (software that makes a device work with your Genesis MP) for operation, they must be installed. Please check the instructions that came with the unit before connecting it to your Genesis MP. Be sure that each device driver is compatible with your Genesis MP. (If the unit is compatible with the Mac OS and did not come with device drivers, none are needed.)

Also, when adding a new device to an existing SCSI chain, be sure that you set the new device's ID to one that is not currently in use by any other device on that SCSI bus. Using two or more devices with the same ID number could cause your equipment to malfunction and you could lose data. SCSI ID numbers are typically set via a rotary push button on the rear of the SCSI device. The numbers range from 0 to 6. Consult the documentation that came with the device for further information.



Rotary SCSI ID switch

Setting the SCSI ID on a Typical Hard Drive

Next you need the appropriate cable for attaching a SCSI device to your Genesis MP. If the device is the first or only one you're connecting, use a SCSI system cable (25-pin to 50-pin) to connect it to the SCSI port at the back of your Genesis MP.



Typical 25-50 pin SCSI System Cable

If the device will be connected to another device, you will typically use the SCSI peripheral interface cable (50-pin to 50-pin).



*Typical 50-50 pin
SCSI Peripheral Cable*

Note: Use only high quality SCSI cables with 110-ohm impedance such as those from Apple Computer. Also, the entire length of the external SCSI bus (the total length of the SCSI chain) should not exceed 20 feet (6 meters).

Some Additional Information about SCSI Cables and SCSI Chains

- There are two common types of external SCSI connectors: 25-pin and 50-pin. (SCSI-II PCI cards with external ports often have a third type of connector.)
- Genesis MP has a 25-pin external SCSI connector.
- The first external connection from your Genesis MP is typically with a 25-pin to a 50-pin cable. This cable can also be used to connect a device with a 25-pin connector to a device with a 50-pin connector in the SCSI chain.
- A 50-pin to 50-pin is generally required to connect external SCSI devices to one another in the SCSI chain.
- A 25-pin to 25-pin cable is generally required to connect Genesis MP to a device with a 25-pin connector, such as the Iomega Zip drive. This type of cable can also be used to connect two 25-pin devices to one another in the SCSI chain.



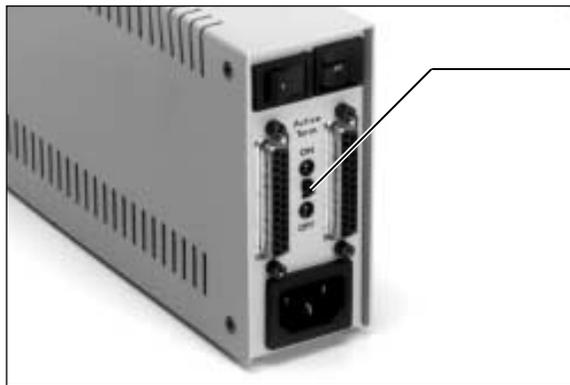
Typical 25-25 pin SCSI Cable

The Last Link in the SCSI Chain

In order for a SCSI chain to operate properly, the last device in the chain requires termination.

There are various ways that a device can provide termination.

- Many devices today provide active termination or an on-off switch for easy control. Active termination automatically senses the condition of the SCSI bus and provides termination if it is needed.



Active SCSI termination switch

Checking for Active

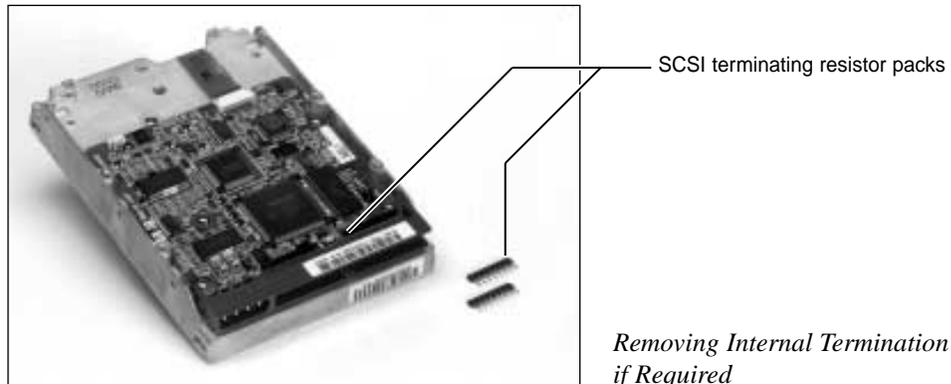
Termination

- Termination can also be provided by connecting an external terminator to the last device on the bus.



External SCSI Terminator

- Termination is provided on some devices with the use of small resistor packs inside of the SCSI case that provide termination. If your SCSI device has an internal terminator, you can use it in the last (or only) position in the chain. If you wish to use the device in the middle of the chain, the internal termination must be removed.



- If you are adding a device to the middle of your SCSI chain and that device provides termination, you must disable the SCSI termination.
- If the device is the only one on your external SCSI bus or is being added to the end of the SCSI bus, it must provide termination. Any other devices on the bus must not provide termination.
- A long SCSI bus, or one with numerous devices connected to it, may require termination at specific points in the middle of the chain. You should always first try terminating only the device at the end of the chain. Typically in this situation, only one additional terminated device is required, so try adding termination at different points in the chain.

Here's how to install a SCSI device:

1. Turn off—your Genesis MP, the device you wish to connect and any other SCSI devices already installed on the SCSI chain.
2. Connect the new device to the SCSI chain making sure that it has a unique SCSI ID number, and that it follows the terminations rules listed above.
3. Plug the SCSI device's power cord into a grounded electrical outlet.
4. Turn on all of your external SCSI devices.
5. Turn on your Genesis MP.

If you experience problems, review the SCSI ID and termination rules listed above. If you continue to have problems, consult Chapter 5—Troubleshooting or contact your DayStar Authorized Reseller or DayStar at 770-967-2077.

Adding Audio Devices

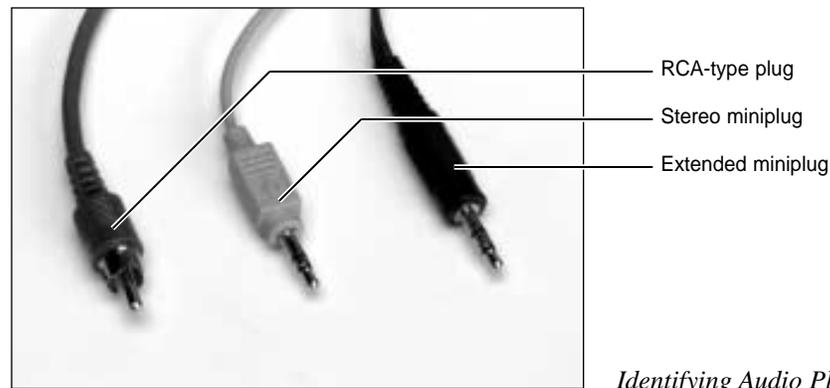
Genesis MP provides 16-bit stereo input, and output at 44.1 and 22.05 kilohertz (KHz).

- You can connect sound input devices such as VCRs, tape deck, Apple Plain Talk microphone or a compatible line-level microphone to record your voice or other sounds. (The lower quality, round Apple microphone is not supported.)
- You can connect sound output devices such as VCRs, tape decks, headphones or external, amplified stereo speakers to improve the sound output of your Genesis MP.
- You can listen to or reproduce stereo sound by connecting audio equipment to your Genesis MP, as well as play and record from a variety of sources.
- With your internal CD-ROM player, you may also use your Genesis MP to play and record sound from audio compact discs (CDs).

The sound input  and output  ports are compatible with both the standard stereo miniplug and the extended stereo miniplug.

Almost everyone is familiar with the standard stereo miniplug. They're most often found on stereo equipment—for example, on a pair of personal headphones. The extended stereo miniplug is slightly longer and is found on voice-quality microphones.

If you purchased the three slot Genesis MP, you also have separate RCA-type connectors for left and right channel audio input. If your equipment has a different type of connector, you can still use it. But you will have to modify it with an adapter available at an electronics supply store.



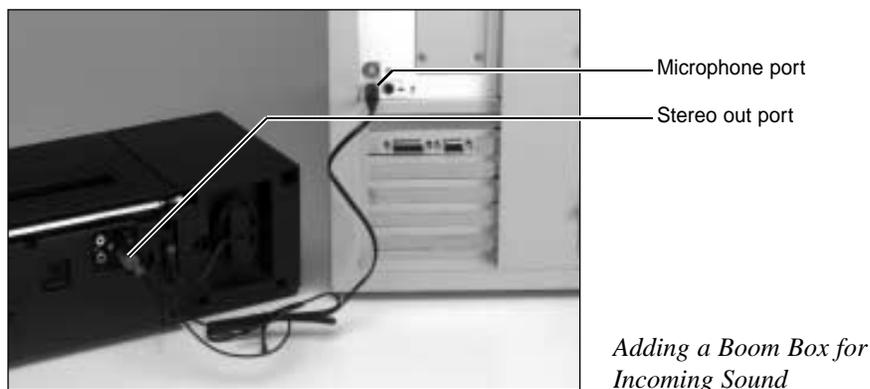
This section covers the installation of a microphone, amplifier, tape deck or a pair of speakers.

Note: For additional information on using your machine's audio input and output options, see the "Sound" topic in Macintosh Guide, located in the  menu.

First let's connect audio equipment (like a boom box) to your Genesis MP

1. Find the stereo miniplug connector or RCA-type connectors on your audio equipment. If there are none, attach the appropriate adapter.
2. Make sure the you have turned off both your Genesis MP and the audio equipment.
3. Place the equipment close to your Genesis MP.
4. Attach the cable to the audio equipment and the correct port on Genesis MP.

Remember: For incoming sound, attach the audio equipment to the sound or audio input ports. For outgoing sound, the sound or audio output ports must be used.



Connecting a Microphone

With software that supports sound input such as the Sound control panel, you can use the Apple PlainTalk Microphone or a compatible line-level microphone to record your voice or other sounds to use on your Genesis MP.

1. Shut off your Genesis MP
2. Plug the connector of the microphone into the sound input port  on the back of your Genesis MP.
3. Place the microphone at a distance of one to three feet away from you.
4. Then center the microphone so that it is directly in front of you.
5. Turn on your Genesis MP and—

You're ready to record.

Note: You cannot use the round lower-quality Apple microphone with your Genesis MP.

Adding external stereo speakers to your Genesis MP

Your Genesis MP's stereo sound output allows you to add high quality external speakers to Genesis MP.

1. Choose the speakers you want based on your own personal sound needs.
2. Purchase enough cable (with a stereo miniplug or RCA-type plugs at one end) to connect one or both speakers to Genesis MP.
3. Be sure your Genesis MP is turned off.
4. Plug the stereo miniplug or RCA-type plugs into the appropriate sound output ports  on your Genesis MP.
5. Connect the speakers together with speaker wires, if necessary.



Turn on your Genesis MP and listen to the music.

Note: You can control the volume of your external speakers by adjusting them through your control panel. Open your sound control panel and choose volume from the pop-up menu. You will then be able to adjust the volume of any of your input and output devices.

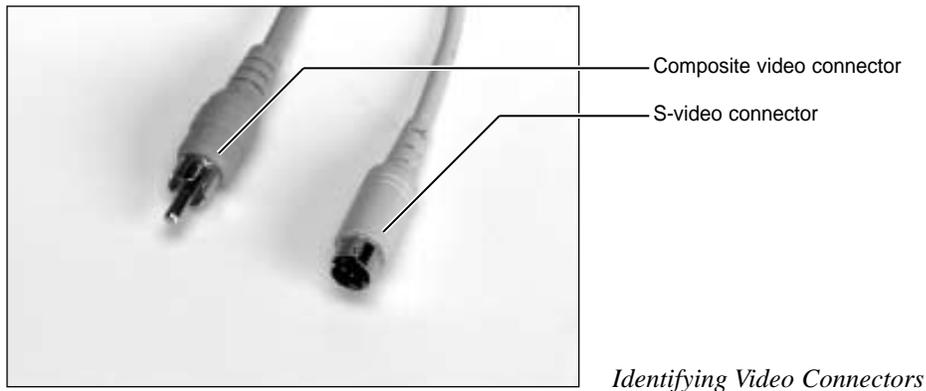
Adding Video Devices (Three Slot Genesis MP Only)

3
PCI

The three slot Genesis MP models provide video input capability for viewing and capturing video images on your Genesis MP. The three slot Genesis MP with multimedia video out also provides video output capability for outputting video to a VCR or TV.

- You can connect video input devices such as VCRs, laser-disk players and video cameras.
- You can connect video output devices such as VCR to output your video to tape.
- You can view or reproduce video images by connecting video equipment to your Genesis MP from a variety of sources.

Genesis MP supports both S-video and composite video connectors. S-video is a higher quality signal often found in more expensive televisions and video gear, such as High-8 video cameras. The composite video connectors are more common and are found on most TVs, VCRs, laser-disk and video cameras.



Note: Although the S-video connectors resemble the other connectors on your Genesis MP, such as the ADB port and serial/GeoPorts, they are not interchangeable.

This section covers the installation of a stereo VCR or video camera. Connecting other video devices would be similar.

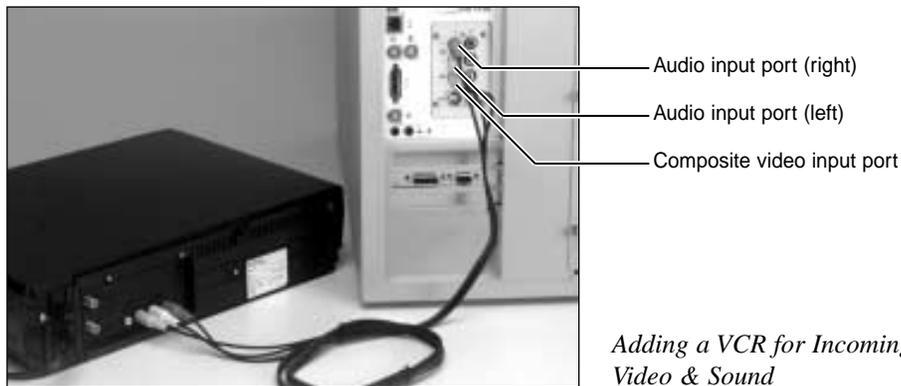
Note: For additional information on using your machine's audio input and output options, see the "Video" topic in Macintosh Guide, located in the ? menu.

3
PCI

Connecting video equipment (like a VCR) to your Genesis MP

1. Find the S-video connector and/or RCA-type composite video connectors on your video equipment. If there are none, attach the appropriate adapter.
2. Make sure the you have turned off both your Genesis MP and the video equipment.
3. Place the equipment close to your Genesis MP.
4. Attach the cables to the video equipment and the correct port    or  on Genesis MP. (Don't forget to connect your RCA-type audio connectors ) if you wish to also have sound input or output.)

Remember: For incoming video attach the video equipment to the video input ports. For outgoing video, the video output ports must be used.

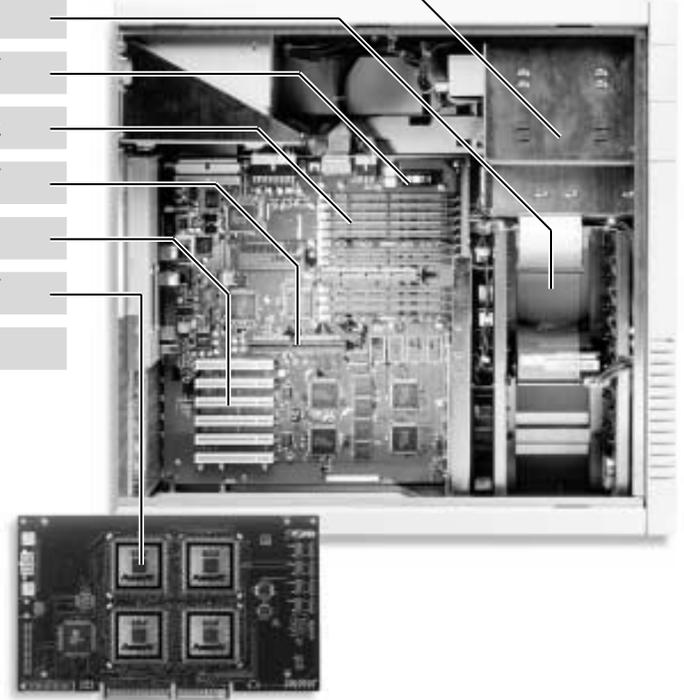


Adding Internal Devices to Genesis MP

The illustration below shows the basic internal components of your Genesis MP which will be covered in this section. For a complete listing of basic components, please refer to Page 14 of this manual, *Important Internal Components of your Genesis MP*.

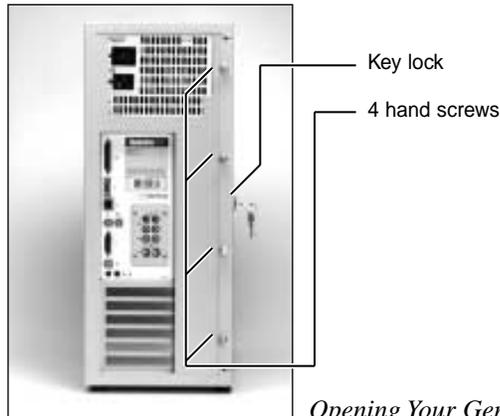
Component	3 Slot	3 Slot w/video out	6 Slot
5.25" Internal Bay	1	1	1
Internal 3.5" Internal Drive Bays	7	7	7
Lithium Battery*	✓	✓	✓
DIMM Sockets*	8	8	12
nPOWER Card Connector	✓	✓	✓
PCI Expansion Slots	3	3	6
nPOWER Quad 604 Board	✓	✓	✓
Video RAM*	✓	✓	

* Position of this item on the three slot Genesis configuration differs from photo



Opening Your Genesis MP

It's easy to get inside your Genesis MP. Just remove the side door panel.

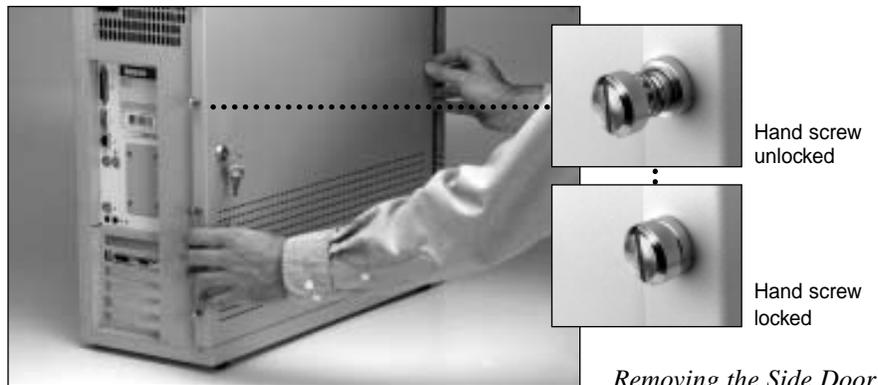


Opening Your Genesis MP

Genesis MP ships with a keyed lock that allows you to control the access to the inside of your Genesis MP.

Note: If you are not concerned with the security of your machine, you can leave the key installed in the lock for ready access.

1. Before you open the machine, be sure to turn your Genesis MP—and all peripherals attached to it—completely off.
2. Unlock the key lock on the side door panel.
3. Unscrew the four hand screws on the rear of the side panel by turning them counter clockwise. They will not come completely out of the side panel.
4. Slide the side door panel back about 1/2" and pull the side panel away from Genesis MP.



Removing the Side Door



CAUTION

Before you begin any installation, put on the anti-static wrist strap that came with Genesis MP. Follow the instructions that came with it.

Adding Memory

Adding memory to your Genesis MP was designed to be extremely easy.

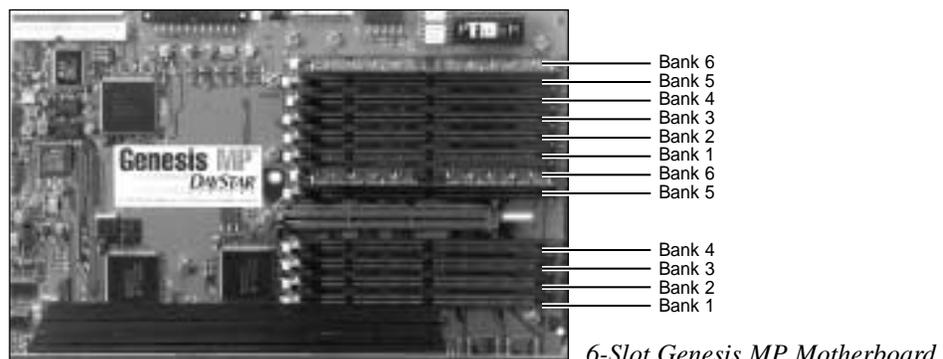
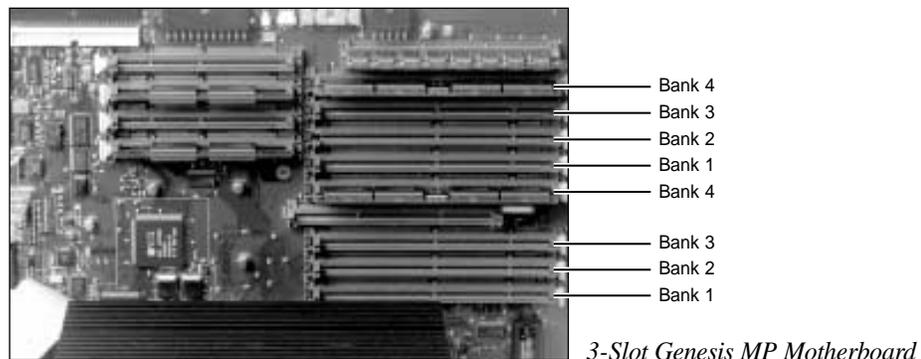
Just remove the side panel, and you will be able to install your Dual Inline Memory Modules (DIMMs) into the DIMM sockets. Genesis MP supports DIMM sizes of 8, 16, 32, 64 or 128 MB. The six slot Genesis MP has 12 DIMM sockets and supports up to 1,536 MB of RAM, while the three slot model has 8 DIMM sockets and support up to 1,024 MB.

DIMMs should be 64-bit wide, 168-pin fast-paged mode with 70ns or faster access times.

Performance tip: Although DIMMs can be added one at a time to your system, you can increase your performance by only installing like pairs of memory in your machine. By installing memory in pairs into the correct locations, you can enable memory interleaving, which effectively provides 128-bit memory access from 64-bit DIMMs.

Steps for installing Memory

1. Open Genesis MP (loosen the side door panel) by following the easy instructions listed previously in this chapter. Remember to turn everything off.
2. Put on your anti-static wrist strap.
3. Locate the DIMM sockets on the motherboard



4. Choose the DIMM sockets you wish to use for the installation.

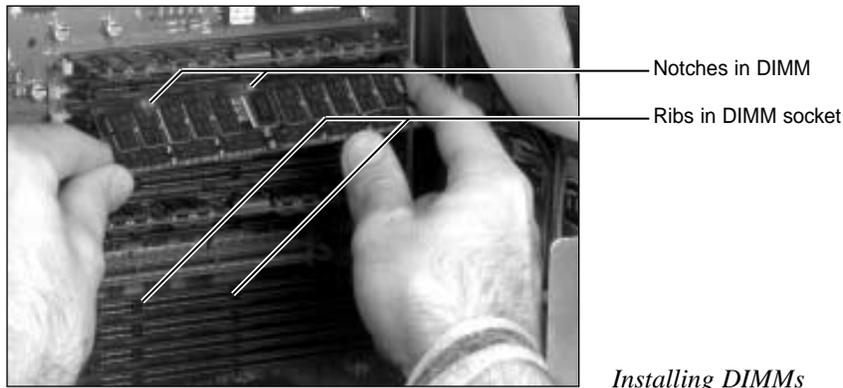
Here's what to consider:

If you are installing an odd number of DIMMs or you do not have pairs of identical size DIMMs, they can be installed into any open DIMM slots.

If you are installing pairs of identical size DIMMs, be sure to install the identical pairs in their matching banks for optimal performance.

5. Being careful not to touch the DIMMs edge connector, align them over the DIMM socket.

Note: DIMMs are designed to fit into a DIMM socket in only one direction. Be sure to match the notches in the DIMM connector to the ribs in the DIMM socket for proper orientation.



6. Push down firmly on the DIMM until it snaps into place.
7. Close the side door panel by tightening the four screws that are attached to it.
8. Turn on your Genesis MP.

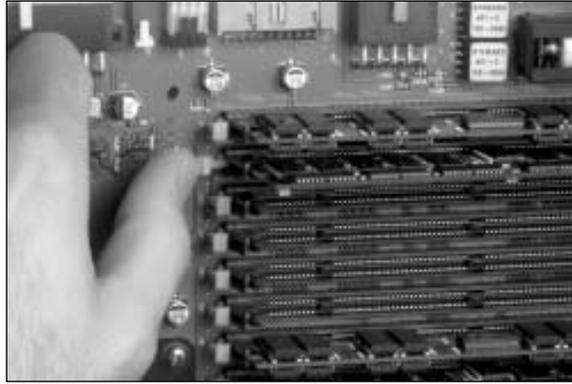
If your Genesis MP starts up properly, select About This Macintosh under the Apple menu in the Finder and check that the amount of total memory matches the amount of total memory you have installed in your Genesis MP. (Since About This Macintosh reports memory in kilobytes (K) you will need to divide this number by 1,024 to convert the number to megabytes (MB). 1 MB = 1,024K)

If you experience problems when starting up your machine, or About This Macintosh does not list the correct amount of RAM, review this section to make sure that your DIMMs are firmly and properly installed.

If you continue to have problems, it is possible that one of the DIMMs you installed is malfunctioning.

Here's how to check:

1. Re-open your Genesis MP and keep on your anti-static wrist strap while you complete this check.
2. Use the ejector(s) located on the side of the DIMM connectors to begin systematically removing each DIMM. (Your machine may have a single ejector or one located on each side of the DIMM.)



DIMM Ejector

3. Push down and away from the DIMM to eject the module.
4. Remove the DIMMs, one at a time, restarting your Genesis MP each time, until you find the malfunctioning DIMM.

Adding Video RAM (Three Slot Genesis MP Only)

3
PCI

Your three slot Genesis MP comes with 2 MB of Video RAM (VRAM) installed, providing 24-bit color on screens up to 832 x 624. By adding 2 MB of additional VRAM your Genesis MP can support resolutions up to 1152 x 870 with 24-bit color.

Adding VRAM to your Genesis MP was designed to be extremely easy.

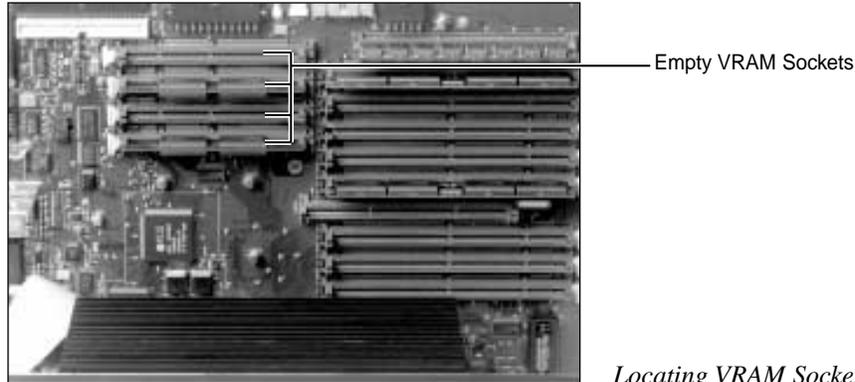
Just remove the side panel, and you will be able to install two additional 1 MB VRAM Dual Inline Memory Modules (DIMMs) into the VRAM DIMM sockets.

VRAM DIMMs should be 32-bit wide, 112-pin fast-paged mode with 70ns or faster access times. Genesis MP does not support 256K and 512K VRAM SIMMs used in older Macintosh models.

Here are the steps for installing VRAM.

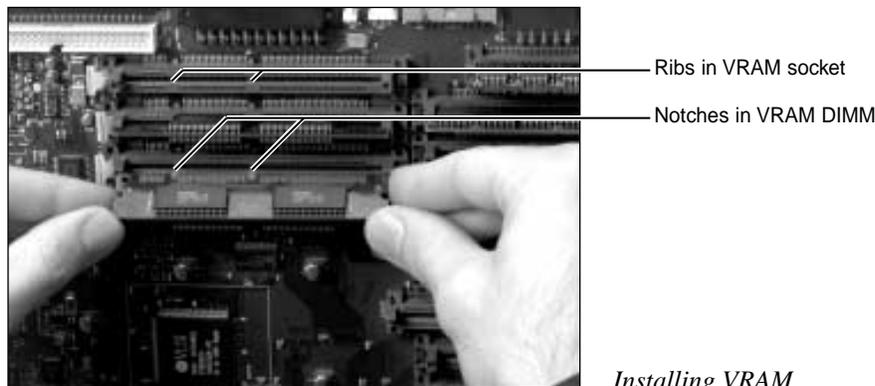
1. Open Genesis MP (loosen the side door panel) by following the easy instructions listed previously in this chapter. Remember to turn everything off.
2. Put on your anti-static wrist strap.

3. Locate the two empty VRAM DIMM sockets on the motherboard



4. Being careful not to touch the VRAM DIMMs edge connector, align them over the VRAM DIMM sockets.

Note: VRAM DIMMs are designed to fit into a VRAM DIMM socket in only one direction. Be sure to match the notches in the VRAM DIMM connector to the ribs in the VRAM DIMM socket for proper orientation.



6. Push down firmly on the VRAM DIMM until it snaps into place.
7. Close the side door panel by tightening the four screws that are attached to it.
8. Turn on your Genesis MP.

If your Genesis MP starts up properly, select the Monitors Control Panel under the Apple menu in the Finder and select millions of colors.

If you experience problems when starting up your machine, or millions of colors is not listed in the Monitors Control Panel, review this section to make sure that your VRAM DIMMs are firmly and properly installed.

If you continue to have problems, it is possible that one or both of the VRAM DIMMs you installed is malfunctioning. Contact your DayStar Authorized Reseller or VRAM DIMM vendor for further assistance.

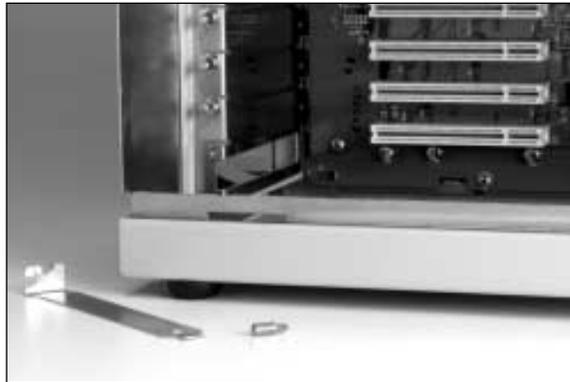
Adding PCI cards

You can add from three to six expansion cards in Genesis MP, depending on the model, through the Peripheral Component Interconnect (PCI) bus. Cards are available to add graphics, video, networking and other expanded capabilities to Genesis MP.

Genesis MP supports all PCI cards that work in Apple's PCI equipped Power Macintosh. PCI cards that *only* support IBM-compatibles are not compatible with your Genesis MP.

Here are the steps for installing a PCI card.

1. Open Genesis MP (loosen the side door panel) by following the easy instructions listed previously in this chapter. Remember to turn everything off.
2. Put on your anti-static wrist strap.
3. Unscrew the screw and remove the metal PCI slot cover from the PCI slot you wish to use to install your card.



Removing PCI Slot Covers

4. Align the PCI card over the motherboard connector and push down on the card until it is firmly seated in the motherboard.



Installing PCI Card

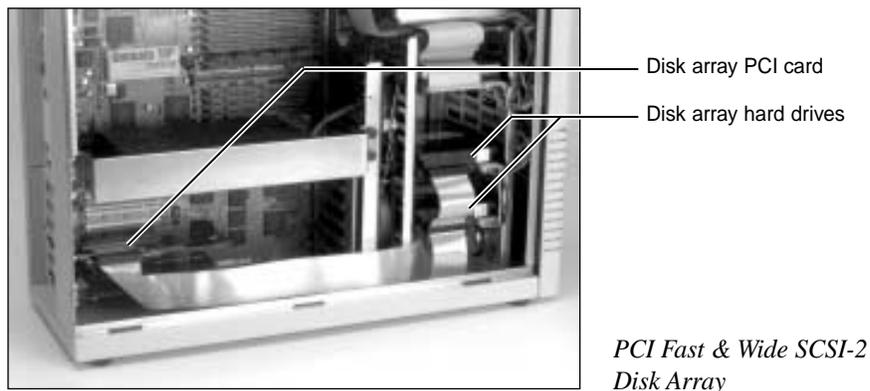
Note: If you are installing a full length PCI card, be sure that the card aligns inside of the card guide on the right edge of the card.

5. Reinstall the screw and replace the access port cover to secure the PCI card.
6. Reinstall Genesis MP's side door panel by tightening down the four screws.
7. Install any software that came with the card.

Performance Tips (six slot Genesis MP):

The six PCI slots are grouped into two groups of three each. Because the circuitry linking the top three PCI slots is also used for other motherboard I/O, most expansion cards perform slightly faster when installed in one of the bottom three PCI slots.

If you are installing a SCSI array with two PCI cards, you can typically increase performance by installing one card in one of the top three PCI slots and the second card in one of the bottom three PCI slots.

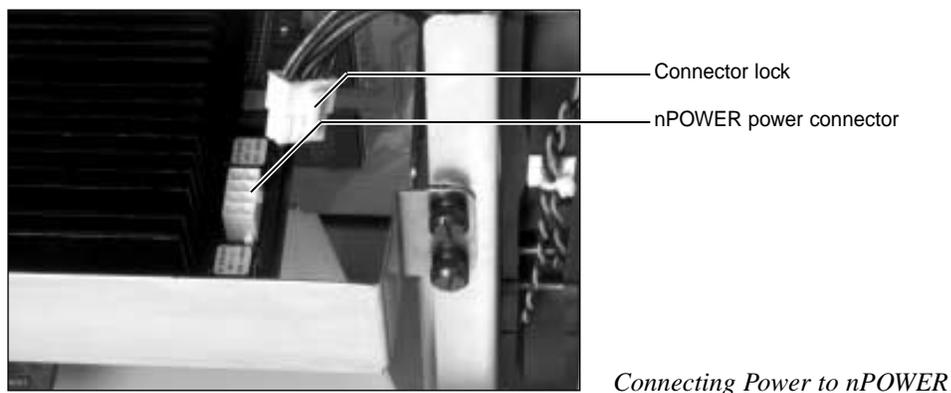


Upgrading the nPOWER Processor Card

Genesis MP's processors are found on an exchangeable daughtercard. They are designed this way so that you are able to easily increase the performance of your machine as faster processors become available.

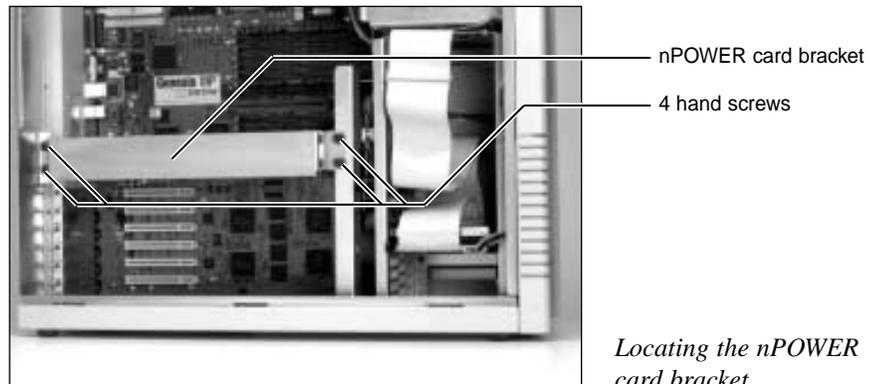
To upgrade your processor daughtercard:

1. Open Genesis MP (loosen the side door panel) by following the easy instructions listed previously in this chapter. Remember to turn everything off.
2. Put on your anti-static wrist strap.
3. Disconnect the power connector from the nPOWER card. Be sure to disengage the connector lock as you pull the plug.

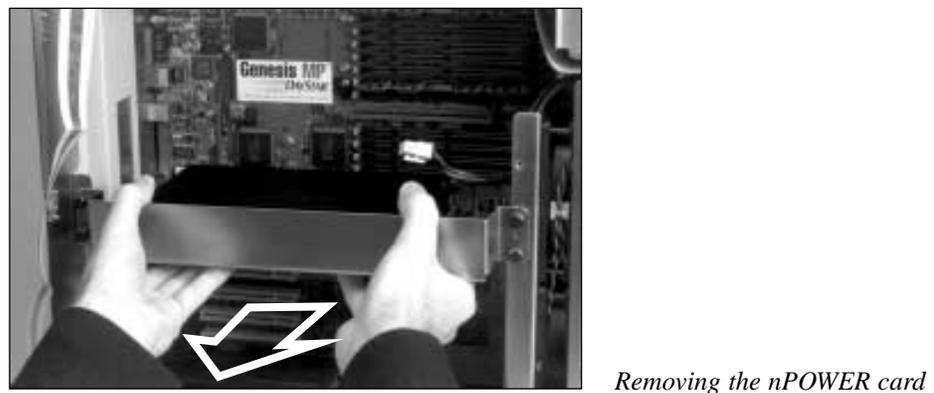


4. Locate and unscrew the two hand screws on either side of the nPOWER card bracket. Be careful to support the card as the last screws are unscrewed.

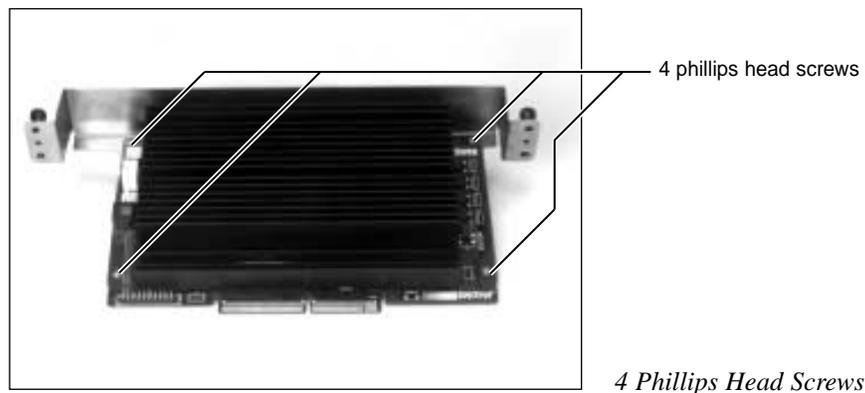
Note: These screws are designed to stay attached to the bracket once they have been unscrewed from the chassis.



5. Holding both sides of the nPOWER card bracket, firmly pull the bracket away from the chassis to remove the card from the motherboard nPOWER processor slot.



6. Once the nPOWER card and its bracket have been removed from the chassis, place the unit —with the metal bracket side face down—on a clean flat surface
7. Remove the nPOWER card from the bracket by unscrewing the four Phillips head screws in each corner of the nPOWER card.



8. Install the bracket on your new nPOWER card by placing the card over the bracket and reinstalling the four Phillips head screws.
9. Install the combined nPOWER card and bracket into Genesis MP by carefully aligning the card over the nPOWER slot on the motherboard and then firmly pushing the card into the slot.

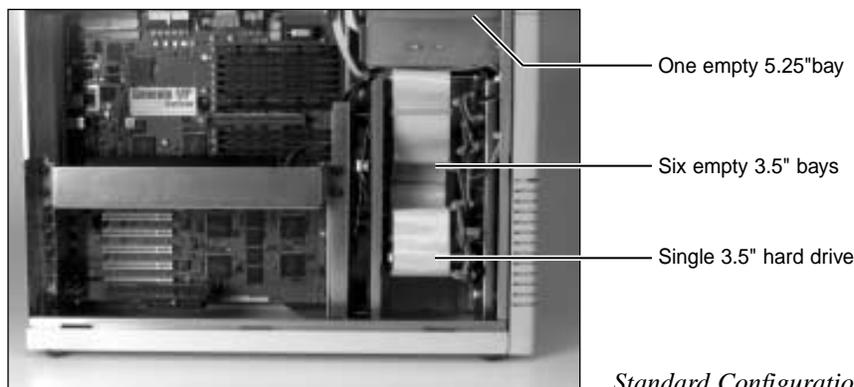


Installing nPOWER Card

10. Continue to support the card and screw the two hand screws on either side of the nPOWER card bracket into Genesis MP's chassis.
11. Reinstall Genesis MP's side door panel by tightening down the four hand screws.

Adding internal SCSI drives

Genesis MP was designed to make it extremely easy for you to add internal SCSI devices. With its internal Fast SCSI-2 bus, internal SCSI devices can run up to twice as fast as those connected to the standard external SCSI bus. Genesis MP comes with a 1" high, 3.5" drive, with active termination, installed into the bottom drive bay.

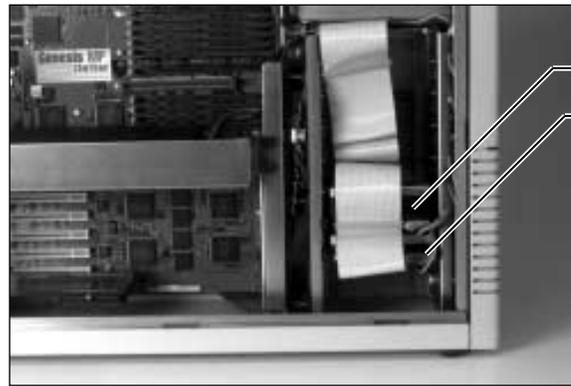


Standard Configuration

Genesis MP was designed to support both 1" high and 1.6" high, 3.5" SCSI drives. Because 1.6" high devices take up roughly twice the space of a 1" high device, adding a 1.6" device blocks two 1" high bays.

1" Tall Drives (1/3 height)	1.6" Tall Drives (1/2 height)
7	0
5	1
3	2
1	3

If you are installing drives of both sizes, the table to the left shows the maximum number of each size drive that may be installed into a Genesis MP.



Installing multiple hard drives

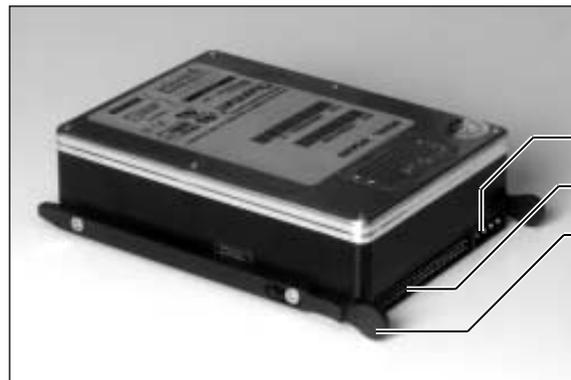
Adding SCSI devices into the Internal 3.5" bay

1. Open Genesis MP (loosen the side door panel) by following the easy instructions listed previously in this chapter. Remember to turn everything off.
2. Put on your anti-static wrist strap.
3. Locate a pair of the small black SCSI rails and the four flat Phillips head screws that came with Genesis MP.



3.5" Drive Rails & Screws

4. Install the rails onto each side of the 3.5" SCSI device so that the thumb end of the rails are on the side of the SCSI device which has the power and SCSI connectors.

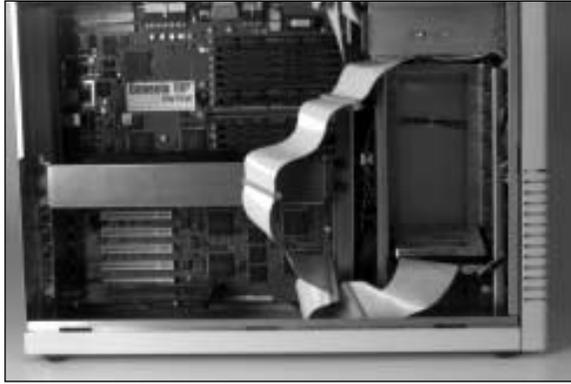


Installing Drive Rails

5. Following the directions that came with the SCSI drive, select a unique SCSI ID number for the device and disable termination.

Note: The last drive in the internal SCSI chain should be the only one providing termination.

6. Locate an empty 3.5" bay in Genesis MP and move the SCSI ribbon cable to the left and the SCSI power cable to the right.



Moving SCSI & Power Cables

Note: If you have multiple internal 3.5" drives installed and are installing a 1.6" high drive, you may need to move previously installed devices in order to make room for your new drive.

7. Position the drive in front of the bay so that the drive's SCSI connector is on the left side and the power connector is on the right.
8. Slide the new SCSI drive into the bay with the drive rails between the three metal flanges found on either side of the drive.



Inserting 3.5" Drive

9. Once you slide the drive completely into the drive bay, the rails will then lock the drive in place.

10. Connect the SCSI ribbon connector to the drive.

Note: This connector is designed to fit in only one direction, so be sure to orient the connector properly. This means that the rib in the SCSI ribbon cable should mate with the notch in the SCSI connector.

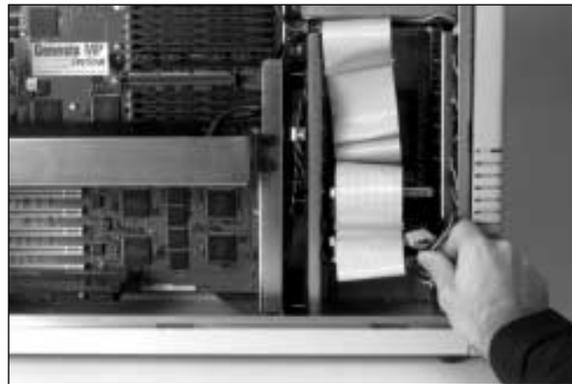


Rib in SCSI Ribbon Cable

Connecting SCSI Ribbon Cable

11. Connect the SCSI power connector to the drive.

Note: This connector is designed to fit in only one direction, so be sure to orient the connector properly.



Connecting SCSI Power Cable

12. Reinstall Genesis MP's side door panel by tightening down the four screws.

13. Using the software that came with the drive, or the software included with Genesis MP, format the drive.

Adding SCSI Devices into the Internal 5.25" bay

Genesis MP's internal 5.25" drive bay supports either 5.25" or 3.5" SCSI devices. This bay can be used for large hard drives or for removable media devices such as SyQuest 5.25" or 3.5", Iomega Zip or Bernoulli or tape back-up units.

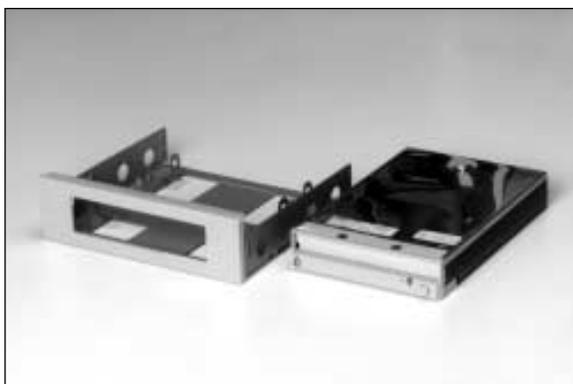
Note: Contact your DayStar Authorized Reseller or DayStar to obtain the bezels with 3.5" or 5.25" openings required for use with removable media drives.

1. Open Genesis MP (loosen the side door panel) by following the easy instructions listed previously in this chapter. Remember to turn everything off.
2. Put on your anti-static wrist strap.
3. Locate the bezel on the front of Genesis MP between the CD-ROM and floppy drives.
4. Firmly grasping either side of the bezel, carefully pull the bezel away from the chassis.



Removing 5.25" Bezel

5. If you are installing a 3.5" device into the 5.25" bay, you will need a 3.5" to 5.25" adapter bracket such as the one below. Contact the 3.5" device's manufacturer or your DayStar Authorized Reseller if an adapter bracket was not included with the device.



3.5" to 5.25" Adapter Bracket

6. Locate the single large black SCSI rail and the two small Phillips head screws that came with Genesis MP.



5.25" SCSI Rail & Screws

7. Facing the front of the SCSI device, install the rail onto the right side of the device, making sure that the tapered end faces the rear of the device as shown below.



5.25" SCSI Rail Installed

8. Following the directions that came with SCSI drive, select a unique SCSI ID for the device and disable termination.

Note: *The last drive in the internal SCSI chain should be the only one providing termination.*

9. Position the drive in front of the machine's 5.25" bay and with the right drive rail between the metal flanges in the chassis, slide the new SCSI device completely into the bay.



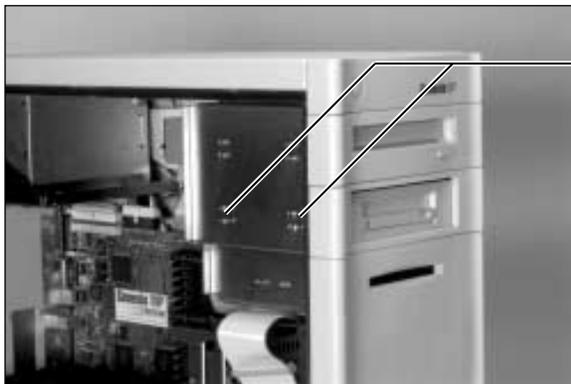
Inserting 5.25" Device

10. Snap the appropriate bezel onto the front of Genesis MP.
11. Locate four of the screws that came with your SCSI device.
12. Grasping the back of the new SCSI device from inside Genesis MP, slide it toward the front bezel until it fits snugly against it.



Positioning the 5.25" Device

13. Install the screws through the chassis into the side of the 5.25" device (or into the adapter bracket if you are installing a 3.5" device).



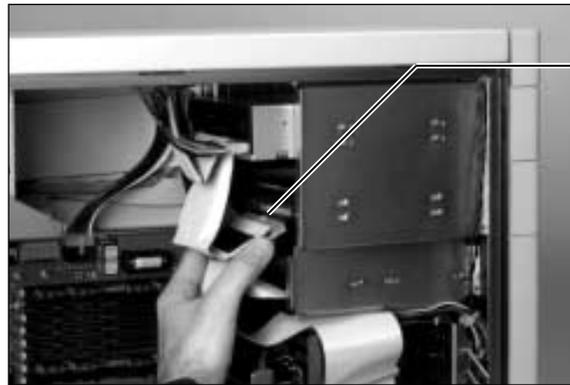
Phillips head screws

*Screws Installed in
5.25" Device*

Note: Some devices may only have two holes and therefore only require that you install two Phillips head screws.

14. Connect the SCSI ribbon connector to the drive.

Note: This connector is designed to fit in only one direction, so be sure to orient the connector properly. This means that the rib in the SCSI ribbon cable should mate with the notch in the SCSI connector.



Rib in the SCSI ribbon cable

Connecting the SCSI Ribbon Cable

15. Connect the SCSI power connector to the drive.

Note: This connector is designed to fit in only one direction, so be sure to orient the connector properly.



Connecting SCSI Power Cable

16. Reinstall Genesis MP's side door panel by tightening down the four screws.

17. Install any software that came with the SCSI device. If it is a hard drive, use the software that came with the drive—or the software included with Genesis MP—to format the drive.

Replacing the Lithium Battery

Genesis MP uses a lithium battery to store users' preferences and time and date information while the unit is not turned on.

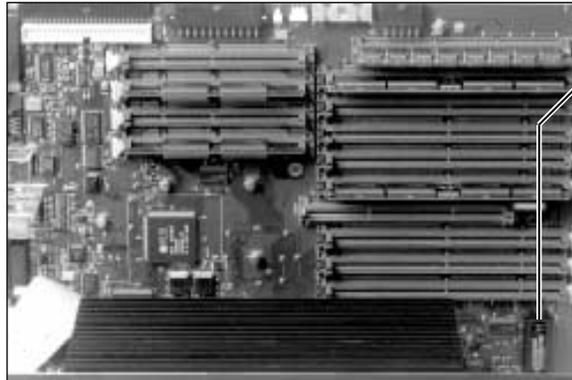


CAUTION

Danger of explosion if battery is incorrectly replaced.

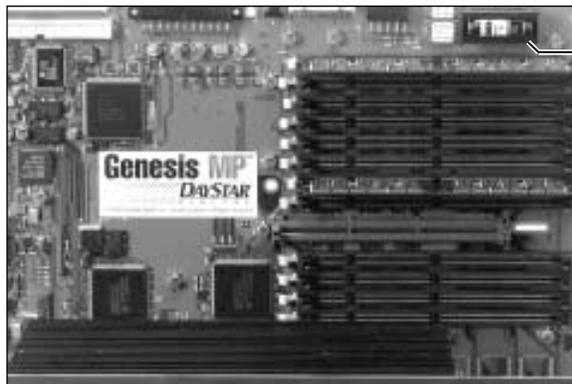
Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to the manufacturer's instructions.



Lithium battery

*Three Slot Genesis MP
Battery Location*



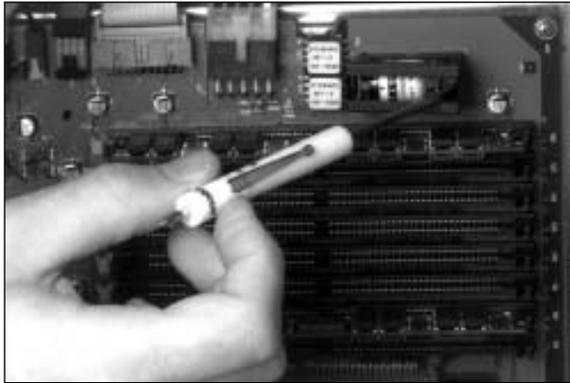
Lithium battery

*Six Slot Genesis MP
Battery Location*

Here are the steps for replacing the lithium battery.

1. Open Genesis MP (loosen the side door panel) by following the easy instructions listed previously in this chapter. Remember to turn everything off.
2. Put on your anti-static wrist strap.

3. Remove the battery cover by placing a thin bladed screw driver between the battery and the black battery cover and gently pushing the tip of the blade away from the battery while lifting up on the battery cover. It may be necessary to duplicate this step on both sides of the battery.



Removing the Battery Cover

4. With the battery cover removed, note the orientation of the battery and then grasp the battery on the sides and pull it out.
5. Orient the new battery properly over the battery connector and push it into place.
6. Reinstall the battery cover.
7. Reinstall Genesis MP's side door panel by tightening down the four screws.

Installing Genesis MP System Software

Installing the Mac OS

Genesis MP requires Apple's Mac OS version 7.5.2 or greater for operation. Your Genesis MP ships with the current version of the Apple system software pre-installed on the hard drive and included on a CD-ROM.

If you wish to install your system software onto a new drive, or need to reinstall your system software, this section describes the steps required for installation. The CD-ROM may also include additional Apple software which you may choose to install. Consult the Read Me files on the CD for additional information on such software.

Performing an Easy Install or Clean Install

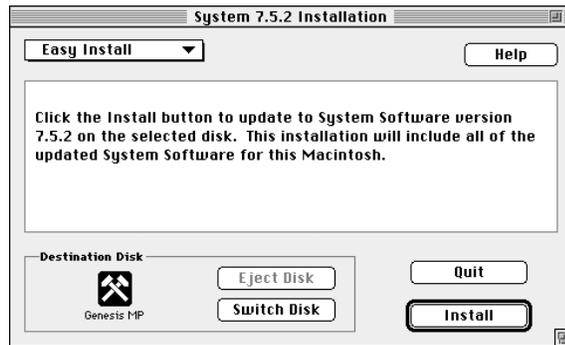
Note: If you are installing system software onto a new hard drive, make sure that the drive has been formatted. You may use FWB's Hard Disk Toolkit, included with your Genesis MP, to format the drive, or use the software that came with the drive. If your boot drive needs to be reformatted follow the steps below, skipping steps 3-7.

1. Turn off Genesis MP.
2. Insert your Genesis MP Boot Disk into the floppy drive and turn on your Genesis MP. When told that the floppy is locked, click OK.
3. Insert the Apple system software CD-ROM into the CD-ROM player.
4. Open the Disk First Aid application located in the Utilities folder of the CD-ROM.
5. Verify, and repair if necessary, the hard drive you wish to install the system software on by following the instructions on the screen.
6. Once you have finished using Disk First Aid, quit the application.
7. Remove the Apple System software CD-ROM from the CD-ROM player.
8. Insert your Genesis MP CD-ROM into the CD-ROM player.
9. Open HDT Primer and select your hard drive from the list of connected devices by clicking on it.
10. From the Driver menu select Update Driver...

Note: If your hard disk was formatted with a utility other than FWB's Hard Disk Toolkit, you can update your drivers using the latest version of that application or use Hard Disk Toolkit. If you do not know which software was used to format your disk, contact the vendor who sold it to you.

Note: If your drive needs to be formatted, click on the format button. Performing a format on your drive will cause all data on that drive to be destroyed.

11. Once completed, quit HDT Primer and remove your Genesis CD-ROM from your CD-ROM player.
12. Restart your Genesis MP from the Genesis MP Boot Disk.
13. Insert the Apple system software CD-ROM into the CD-ROM player.
14. Open the Install System Software folder and then open the Install System Software application. Click Continue. The Easy Install window shown below appears.



Mac OS Easy Install Window

15. Be sure that the drive you wish to install the system software on is selected as the Destination Disk. If it's not, click Switch Disk until the correct drive appears.
16. If you are installing the system software on a drive that already has system software on it, you may wish to perform a clean installation. A clean install creates a brand new System Folder and moves the contents of your old System Folder to a new folder named Previous System Folder. A clean install is recommended if your old System Folder has become corrupt or files that have been added to your System Folder are causing compatibility problems.



To perform a clean install, hold down the Command-Shift-K keys at the same time. When the window shown below appears, select Install New System Folder and click OK.

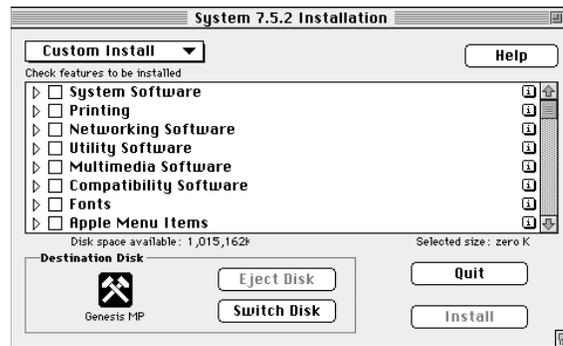
17. Click on the Install or Clean Install button in the main window.
18. Once the installation is completed, you can install any additional Apple system software from the CD-ROM that you choose to have installed. If you are new to the Mac OS, we suggest that you install the Macintosh Tutorial software.
19. Once you have installed the Apple software, you will need to install your Genesis MP software located on your Genesis MP CD-ROM. We also recommend that you do not reinstall system extensions and applications that may have been deleted, or moved to the Previous System Folder, until after installing your Genesis MP software.

Performing a Custom Install

If you wish to install or update only specific portions of the Mac OS, you can perform a Custom Install by following these steps.

Note: If you are installing system software onto a new hard drive, make sure that the drive has been formatted. You may use FWB's Hard Disk Toolkit, included with your Genesis MP, to format the drive, or use the software that came with the drive. If your boot drive needs to be reformatted, boot from your Genesis MP Boot Disk to get your machine up and then format the drive with the formatting software.

1. Turn off Genesis MP.
2. Insert your Genesis MP Boot Disk into the floppy drive and turn on your Genesis MP.
3. Insert the Apple system software CD-ROM into the CD-ROM player.
4. Open Install System Software and click Continue.
5. Select Custom Install from the pop-up menu in the upper left corner of the window.



Mac OS Custom Install Window

6. Select the system software components you wish to install. You may get information about each component by clicking on the *i* to the right of each component. If you wish to select only individual items of a component, click on the arrow to the left of the component.
7. Be sure that the drive you wish to install the system software on is selected as the Destination Disk. If it's not, click Switch Disk until the correct drive appears.
8. Click on the Install button.
9. Once the installation is completed, you will need to install your Genesis MP software located on the DayStar Genesis MP CD-ROM if you have not already done so.

Installing Genesis MP Software

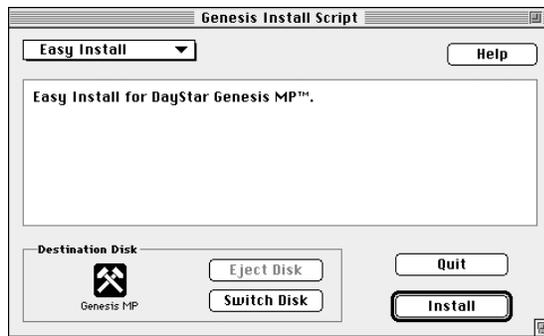
Genesis MP requires that specific software be installed in order to take full advantage of your machine's capabilities. Your Genesis MP ships with this additional software pre-installed on the hard drive and included on a CD-ROM.

If you wish to install your Genesis MP software onto a new drive, or need to reinstall it, this section describes the steps required for installation. Consult your Genesis MP Read Me file for a complete and up to date list of the files that your Genesis MP installer places on your hard drive.

Note: You must install the Mac OS (see previous section) before installing your Genesis MP software.

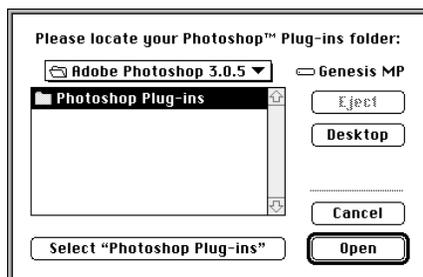
Performing an Easy Install

1. Turn off Genesis MP.
2. Insert your Genesis MP Boot Disk into the floppy drive and turn on your Genesis MP.
3. Insert your Genesis MP CD-ROM into the CD-ROM player.
4. Open Genesis MP Installer and click Continue. The Easy Install window shown below appears.



Genesis MP Easy Install Window

5. Be sure that the drive you wish to install the software on is selected as the Destination Disk. If it's not, click Switch Disk until the correct drive appears.
6. Click on the Install button.
7. The installer may ask you to locate specific applications on your hard drive in order to place multiprocessing plug-ins in their appropriate locations. If you do not own these applications simply click on the cancel button and these files will be placed in the Applications folder. You can also later install these files using the Custom Install feature of the installer software.



Installing Plug-ins

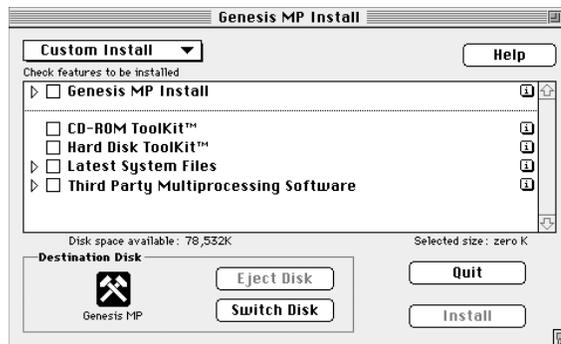
8. Once the installation is completed, restart your machine.

Note: If you previously performed a clean install of the Mac OS system software you can now move items from the Previous System Folder into the System Folder. Files that you may wish to copy back into the System Folder include Control Panels, Extensions and Preference files. Be sure not to copy older versions of the system software from the Previous System Folder over new files in the System Folder.

If your machine does not operate properly or your performance decreases after placing Control Panels or Extensions back into the System Folder, remove the files and add them one at a time, booting up after each, until you find the problematic file. Once you find the file, remove it and continue adding the other files until all such files have been removed from the System Folder. Some conflicts can be overcome by changing the first character in the file name, which changes the order in which the files load. If you continue to have problems with specific files, contact the developer for assistance.

Performing an Custom Install

1. Turn off Genesis MP.
2. Insert your Genesis MP Boot Disk into the floppy drive and turn on your Genesis MP.
3. Insert your Genesis MP CD-ROM into the CD-ROM player.
4. Open Genesis MP Installer and click Continue.
5. Select Custom Install from the pop-up menu in the upper left corner of the window.



*Genesis MP
Custom Install Window*

6. Select the software components you wish to install. You may get information about each component by clicking on the i to the right of each component. If you wish to select only individual items of a component, click on the arrow to the left of the component.
7. Be sure that the drive you wish to install the system software on is selected as the Destination Disk. If it's not, click Switch Disk until the correct drive appears.
8. Click on the Install button.
9. Once the installation is completed, restart your Genesis MP.

Troubleshooting

This section discusses possible problems that you may encounter and how to solve them. If the information in this section does not solve your problem, please contact your Genesis MP Authorized Reseller or call DayStar Technical Support (9 A.M. to 6 P.M. EST) at 770-967-2077 for further assistance.

Your Genesis MP crashes and you cannot quit the application or restart the computer from the Finder.

- Force the application or the Finder to quit by holding down the Command-Option-Esc keys at the same time. If this is successful you should save any work in your other open applications and then Restart your Genesis MP.
- Force the Genesis MP to restart by holding down the Command-Control- keys at the same time.



CAUTION

These option will cause you to lose unsaved data. If you can see information on the screen that has not been saved, you may wish to write it down so that it may more easily be reentered into the computer.)

You are experiencing problems with your Genesis MP.

- You may be able to solve many problems by clearing your Genesis MP's parameter RAM. Refer to the section entitled "Clearing the Parameter RAM."

Your Genesis MP will not start up, no error screens appear and the Mac OS splash screen does not appear.

- Try removing the DIMMs one at a time until the problem goes away. If removing the DIMMs solves the problem, replace them with known working modules.
- Try booting from your Genesis MP Boot Disk, with all external SCSI devices turned off and the command, option, shift and delete keys held down until the Finder desktop appears. This keeps your internal hard drive from mounting. If the machine starts up properly, update your hard disks or removable media with the latest version of the application that was used to format them. Refer to the section entitled "Incompatible formatting software" for further information.
- As a final test try removing all PCI cards (other than the the display card in the six slot Genesis MP); disconnect all external and internal SCSI devices; disconnect any non-Apple/DayStar mice, keyboards, trackballs or tablets connected to the ADB ports and also disconnect any cables connected to the Ethernet, printer or modem ports. Insert your Genesis MP Boot Disk and turn on your

Genesis MP. If it starts up properly, one of the devices you disconnected is conflicting with your Genesis MP. Try adding the devices back one at a time until you pinpoint the incompatible device. Contact the manufacturer of the device for the latest updates.

If none of these suggestions solves your problem, contact your DayStar Authorized Reseller or call DayStar Technical Support (9 a.m. to 6 p.m. EST) at 770-967-2077 for further assistance.

Your Genesis MP locks up after the Mac OS splash screen appears, but does not start up completely.

- Hold down the shift key and turn your Genesis MP on.

If the machine starts up properly...

- Refer to the section entitled “Control Panel and Extension Conflicts.”

If the machine does not start up properly...

- Try booting from your Genesis MP Boot Disk, with all external SCSI devices turned off and the command, option, shift and delete keys held down. If the machine starts up properly, update your hard disks or removable media with the latest version of the application that was used to format them. Refer to “Incompatible Formatting Software” for further information.

If the machine still does not start up properly...

- Refer to the section entitled “Installing a Clean System” in the previous chapter.

If the machine still does not start up properly...

- As a final test try removing all PCI cards (other than the the display card in the six slot Genesis MP); disconnect all external and internal SCSI devices; disconnect any non-Apple/DayStar mice, keyboards, trackballs or tablets connected to the ADB ports and also disconnect any cables connected to the Ethernet, printer or modem ports. Insert your Genesis MP Boot Disk and turn on your Genesis MP. If it starts up properly, one of the devices you disconnected is conflicting with your Genesis MP. Try adding the devices back one at a time until you pinpoint the incompatible device. Contact the manufacturer of the device for the latest updates.

If none of these suggestions solves your problem, contact your DayStar Authorized Reseller or call DayStar Technical Support (9 a.m. to 6 p.m. EST) at 770-967-2077 for further assistance.

An error message appears at startup that informs you that the RAM is either not installed properly or is failing the self test.

- Make sure the DIMMs are installed properly.

If you continue to have this problem...

- Try removing the DIMMs one at a time until the problem goes away. If removing the DIMMs solves the problem, replace them with known working modules.

You don't have as much system memory as you expected.

- You may have incorrectly installed the DIMMs in your Genesis MP. Check your Genesis MP Control application and be sure that the amount of memory that the software sees is equal to what you expected. (Refer to your Genesis MP Control Read Me)

You are unable to use Virtual Memory and multiprocessing at the same time.

- Virtual Memory is not currently supported in the Apple Multiprocessing Application Programming Interface (API). Because Connectix uses virtual memory in RAM Doubler, it is also not currently compatible with your Genesis MP's multiprocessing software. Turning on Apple's VM or Connectix RAM Doubler will cause your Genesis MP to run off of a single CPU, and therefore drastically reduces performance in MP aware applications.

You notice a decrease in your computer's speed after adding a control panel or system extension.

- The software may not work well with PowerPC-based computers. To find out if your special software is the problem, remove the problem software from your System Folder (it may be in the Control Panels or Extension folders). If the computer performs better when the software is removed, contact the software's manufacturer for information or an upgrade.

Your PowerPC native applications will not run; they give you a message that a file could not be found; or they crash when you use them.

The application may not have enough memory to operate properly. Try the following:

- Allocate more memory to the application by quitting the application, selecting the application and then choosing Get Info from the File menu in the Finder. You should increase both the Minimum and Preferred memory sizes.
- Quitting other applications to free up memory.
- Turn on the Modern Memory Manager located in the Memory Control Panel.
- Install more memory in your Genesis MP.

If the problem does not appear to be memory related, try the following...

- PowerPC applications use a new type of file called a shared resource. When you install a PowerPC native application, any required shared resource files should be installed into your System Folder. Check the documentation that came with your application to be sure that the required shared resource files were installed properly.
- Hold down the shift key and turn your Genesis MP on. This will turn all your extensions off at bootup. Keep the shift key held down until your Genesis MP completely starts up. Run the application. If the application works properly, refer to the section marked "Control Panel and Extension Conflicts."

Your non-native applications will not run or they crash when you use them.

- Disable the Modern Memory Manager, located in the Memory Control Panel. Restart your Genesis MP. If this solves the problem, you should turn the Modern Memory Manager back on for best performance when using native applications.
- Hold down the shift key and turn your Genesis MP on. This will turn all of your extensions off at bootup. Keep the shift key held down until the Macintosh completely starts up. Run the application. If the application works properly, refer to the section entitled “Control Panel and Extension Conflicts.”

When the mouse cursor moves, the cursor jerks erratically.

- This is generally due to a low memory situation. Try quitting out of some of the other open applications or adding more memory.
- The problem may also be dirty mouse or trackball. Most mice can be cleaned by removing the circular locking ring around ball on the underside of the mouse. With the ball removed, use a cotton swab or a finger nail to clean the three rollers inside the mouse.

If these suggestions fail to solve the problem try switching to known good mice or trackballs. If the problem goes away contact your reseller or the manufacturer for repair or replacement information.

Your floppy disk will not eject from your Genesis MP's floppy drive.

- Try holding down the Command-Shift-1 keys at the same time.
- Turn off your Genesis MP and hold down the button on your mouse or other pointing device until the Mac OS splash screen appears.
- Insert a large, straightened paper clip into the small hole near the floppy drive's opening. Carefully push the paper clip in to eject the floppy disk.

If none of these suggestions solves your problem, contact your DayStar Authorized Reseller or call DayStar Technical Support (9 a.m. to 6 p.m. EST) at 770-967-2077 for further assistance.

Your Genesis MP's clock no longer keeps correct time and/or your Genesis MP forgets user settings such as the Startup Disk.

- Replace your Genesis MP's lithium battery. See previous chapter for replacement instructions.

Icons do not appear properly on the desktop.

- Try rebuilding your desktop. First shut down your Genesis MP. While holding down the Command-Option keys restart your computer and continue holding the keys down until you see a message asking if you wish to rebuild your desktop. Click OK.

Control Panel or Extension Conflicts

If you are experiencing problems with specific applications or your Genesis MP hangs while starting up, it could be due to Control Panel (CDEV) or Extension (INIT) files that are conflicting with one another or are not PowerPC compatible. To fix this problem, do the following:

1. Hold down the shift key and turn your Genesis MP on. Keep the shift key held down until your Genesis MP completely starts up.
2. Remove all non-Apple/DayStar Control Panels and Extensions from the hard drive's System Folder.
3. Restart your Genesis MP from the hard drive. (If your Genesis MP does not start up properly at this point, it is probably due to a contaminated system. Refer to the section entitled "Installing a clean system" in the previous chapter.)
4. Reinstall the Control Panel and Extension files into the System Folder one at a time. Restart the machine after adding each file until you encounter a problem. After this happens, restart while holding down the shift key at startup and remove the last file loaded. Proceed again with this systematic check until you have removed all conflicts.

Note: You can overcome some conflicts by changing the first character of the troublesome file's name. Since these files load in alphabetical order, this will alter the order in which they load. It is also possible that the troublesome file is not PowerPC compatible. Contact the author of the Control Panel or Extension for the latest version.

Note: Connectix RAM Doubler is not currently compatible with your Genesis MP.

Clearing the Parameter RAM

Your Genesis MP has a small amount of memory, or parameter RAM, for storing its settings. It is possible for this information to become corrupt, or to contain improper information. To Clear or "Zap" your Genesis MP's parameter RAM, hold down the Command-Option-P-R keys simultaneously while starting your Genesis MP and continue holding them down until the machine restarts itself. (In some instances you may need to use power switch to turn your Genesis MP on after clearing the parameter RAM.) Since this clears many of the Control Panel settings, you will need to reset your system preferences for items such as the time and date.

Incompatible Formatting Software

Your Genesis MP is shipped with FWB's Hard Disk Toolkit for formatting hard drives and removable media. If you choose to use different formatting software, or some of your existing devices were formatted with other software, the devices may cause problems with your Genesis MP if the software does not support PowerPC-based machines.

If your Genesis MP will not start properly, try booting from your Genesis MP Boot Disk, with all external SCSI devices turned off and the command, option, shift and delete keys held down. If the machine starts up properly, you will need to update the driver on your hard disks or removable media. You may use FWB's Hard Disk Toolkit, which came with your Genesis MP, or the latest version of your own formatting software.

Performance Notes

Here are some tips to get the most from your Genesis MP.

- Upgrade your non-native applications, control panels and extensions to multi-processing versions as they become available.
- Keep the number of control panel and system extension files that you have in the System Folder to a minimum. If you find that you are not using the features of such a file, remove the file from the System Folder. (You can always add it back when needed.) Not only can these files cause conflicts with one another, they can also rob the system's performance, especially if they are not written in the native PowerPC format.
- Vary the size of the Apple Disk Cache, located in the Memory control panel, to find an optimal setting for your system. Some hard drives and applications such as Adobe Photoshop perform better with the cache set to its minimum.
- Whenever possible, keep the Modern Memory Manager enabled.
- Apple may increase the portion of the operating system that is coded in native PowerPC in future versions of the system software. By upgrading to these new versions, you will be able to further increase your performance.

Product Warranty

DayStar Digital, Inc. warrants that it will repair or replace, at its option, any defective products properly returned to our factory at no additional charge for a period of ONE (1) FULL YEAR from the date the product is purchased by the original enduser.

This warranty does not apply if the hardware product has been damaged by accident, misused, abused, installed with non-compatible products, modified in any way or if the serial number has been removed or defaced. This warranty does not apply to damage or failure to any other add-in boards. This warranty is extended only to original endusers.

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Upgrading Your Genesis MP

As faster PowerPC 604 CPUs are introduced, contact your DayStar Authorized Reseller or DayStar for information on upgrading your Genesis MP's nPOWER processor card.

How to Service Your Genesis MP

If you believe service is needed, please contact your DayStar Authorized Reseller or call the DayStar Technical Support Department for assistance at 770-967-2077 (or EMail as shown below) before you return the product. Many times we can solve problems without asking you to return your Genesis MP for service.

Contacting DayStar

Please direct all correspondence and technical questions to:

DayStar Digital, Inc.
Technical Support Department
5556 Atlanta Highway
Flowery Branch, GA 30542
770-967-2077 fax: 770-967-3018
<http://www.daystar.com/>

Internet:

Complete information on DayStar and our products is available on our home page on the world wide web: <http://www.daystar.com/>. Our EMail address is support@daystar.com

AppleLink:

Our software is available at the following location: Third Parties; Third Parties A-G; DayStar Digital; File Library/Utilities. Our Link address is: DAYSTAR.TECH.

America Online:

DayStar has a forum in the Industry Connection Area. Our Address is: DAYSTAR OL.

CompuServe:

You can contact DayStar through our forum, Macintosh A Vendor Forum Section 6 or at our EMail address: 75300,1544.

eWORLD:

Our address is: DAYSTAR OL.

We appreciate comments you may have on this manual.

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Manual version number 1.1, 02/96

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System Info

For your convenience we have provided an easy way to inventory all the components of your Genesis system. Refer to this page for future upgrades and have it handy when calling for technical support.

Genesis MP Serial Number _____

Primary Monitor _____

Additional Monitor _____

PCI Cards Installed _____

DIMMS _____

Internal SCSI Devices _____

External SCSI Devices _____

