

Genesis MP

Conversion Guide



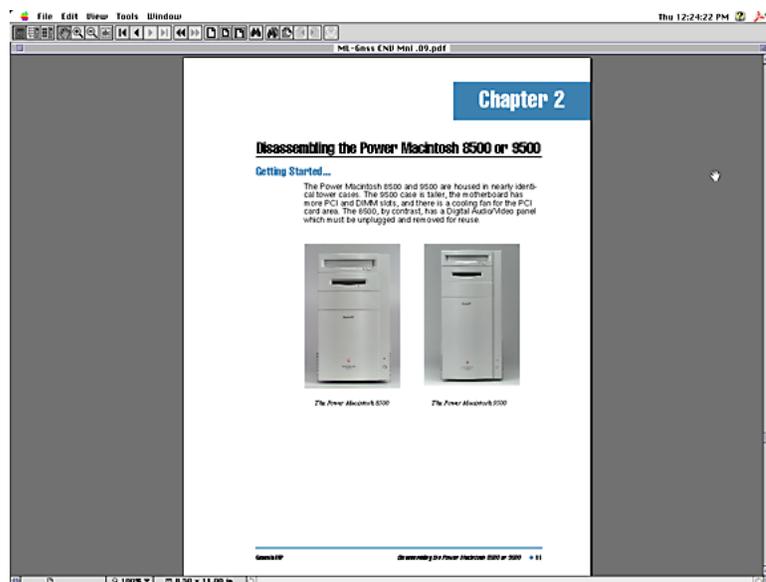
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About This Manual

Documents on Disc

DayStar has provided this documentation on disc in the form of an Adobe Acrobat PDF file. Adobe Acrobat technology lets you reproduce Acrobat PDF documents on screen or in print anywhere. In addition, Acrobat Reader offers the viewer the ability to search the manual for text, and to click on links to navigate.

Acrobat Reader is required to view the manual. The latest version of Acrobat Reader for Mac, and versions for other platforms are always available for free on Adobe's site on the World Wide Web: <http://www.adobe.com/>



Viewing the manual with Acrobat Reader

It's very easy to use Adobe Acrobat Reader. Download and double-click on the ACROREAD.MAC icon to begin the installation. Once installed, read the "Help-Reader.pdf" file for more information on getting around with Acrobat.

If you would like to create a printed manual, Acrobat may be used to reproduce a hard copy with your laser printer. Consult the "Help-Reader.pdf" file for information on printing from Acrobat Reader.

Conversion Basics

Introduction

DayStar has designed the Genesis MP Conversion Kit to make converting your Power Macintosh to a Genesis MP as easy as possible. This manual has been organized into chapters on disassembly of the various Power Macintosh models, and assembly of the Genesis MP Conversion.

We recommend that you read and understand this chapter, and all of the procedures covering disassembly of your Power Macintosh and assembly of the Genesis MP Conversion before beginning.

We have done everything possible to make the conversion process easy enough for any user to accomplish in a few hours with a minimum of tools. No specialized knowledge is required, and this manual guides you step-by-step through the entire process.

If you read through the procedures and do not feel that you can or should attempt the conversion yourself, please contact your local authorized service facility to arrange for conversion for a modest fee.

Upgrading your Motherboard

The motherboards of some Power Macintosh models must be upgraded by DayStar Digital for use in the Genesis MP Conversion Kit. To upgrade your motherboard, consult the information shipped with your conversion kit.



IMPORTANT:

Contact DayStar to arrange for your upgrade before beginning the conversion process.

The Conversion Process - an Overview

To convert your Power Macintosh to a Genesis MP, you must follow five basic steps:

- Step 1 - Prepare for the Procedure
- Step 2 - Disassemble your Power Macintosh
- Step 3 - Send your motherboard to be upgraded (if required)
- Step 4 - Assemble your Genesis MP Conversion
- Step 5 - Install the Genesis MP Software

This chapter covers Step 1: Preparation. To make sure your conversion proceeds as easily as possible, you need to prepare an appropriate work area and gather the right tools. You also need to familiarize yourself with the contents of the kit, with electrostatic discharge safety and basic mechanical information, and read and understand the procedures you'll follow. If your motherboard needs to be upgraded, you will arrange for the upgrade at this time.

Step 2 is covered in the chapters on disassembly of the various Power Macintosh computers. You will disassemble your computer, keeping the motherboard, RAM, storage devices and peripherals and other components for reuse in the Genesis MP conversion.

Step 3, upgrading the motherboard, is covered in the literature which shipped with the Genesis MP Conversion Kit. If you are unsure of whether your motherboard needs to be upgraded, contact DayStar to determine how to proceed.

Step 4, assembly of the Genesis MP Conversion, is covered following the disassembly chapters. You will prepare your storage devices for reinstallation, install them and your motherboard into the Genesis MP Chassis. You'll reinstall your peripherals and add DayStar's nPOWER multiprocessor card.

In Step 5, the final chapter of this guide, we'll tell you how to install DayStar's multiprocessing software and start up and test your new Genesis MP Conversion.

About Electrostatic Discharge (ESD)...



CAUTION

The Genesis MP and your Power Macintosh use electronic components that are sensitive to static electricity. Use care when handling and installing these components to prevent damage which can be caused by static currents. Always work in an area of low static electricity on a grounded surface to prevent static discharge.

If you've ever been shocked when touching a doorknob on a dry winter day, you've experienced ESD. For humans, the experience of ESD is an annoyance. For sensitive microcircuitry, it's devastating. A shock too small to feel can wipe out hundreds of dollars of RAM memory, thousands of dollars of processor chips.

Static electricity can be discharged from yourself or from a conductor, possibly destroying static-sensitive devices or microcircuitry. Often, static discharge may not be detected by sight, touch, or sound, although damage occurs.

An electronic device exposed to ESD may fail immediately, gradually, or not at all - it's impossible to know whether damage has occurred until the device stops operating correctly.

As you work, it is important to minimize static buildup. Static charge can build to dangerous levels by:

- Working in extreme low humidity
- Walking across carpet with a static sensitive device
- Walking across a vinyl floor
- Body motion within an unprotected ESD work area
- Removing devices from plastic packaging
- Removing devices from vinyl packaging
- Removing devices from Styrofoam packaging
- Removing devices from bubble-wrap packaging
- Packing or Unpacking devices wrapped in foam



IMPORTANT

DayStar provides an anti-static wrist strap with each Genesis MP. A properly worn and grounded strap drains static buildup to ground, minimizing the danger of ESD while you are wearing it. The strap is to be used for grounding yourself while working with the static sensitive components of your system. Static sensitive components include any components which have microcircuitry, including motherboards, RAM, processor cards PCI cards, disk drives, CD-ROM drives, floppy drives, audio/video cards and most other peripherals. Do not attempt the Genesis MP Conversion before you have located, grounded and put on the strap.

Creating an ESD Safe Work Area



IMPORTANT!

Many electronic devices are ESD sensitive. Be sure to take the following precautions when handling an electronic device:

- Always wear an anti-static wrist strap
- Never attempt installation on a carpeted floor
- Never wear leather shoes (rubber soles are recommended)
- Never attempt installation in an overly dry environment
- Never wear silk or polyester clothing during an installation
- Always remove all jewelry (i.e., rings, bracelets, watches, etc.)
- Always transport electronic devices in static-safe containers: (tubes, bags, boxes)
- Always protect parts and assemblies with conductive ESD approved containers and/or packaging

- Always remove electronic devices in a grounded work area
- Always use tools (i.e., screwdrivers, snips, vacuums) that are conductive.

Grounding Using The Anti-static Wrist Strap

To ensure proper grounding, the antistatic wrist strap must be worn in direct contact with the skin. Attach the free end of the strap to a good electrical ground in accordance with the instructions and precautions printed on the label.

Good electrical grounds include cold water pipes (where conductive pipe extends to ground - plastic pipe and metal pipe connected to plastic pipe are not appropriate), grounded electrical conduit, the back of properly connected and grounded outlet strips and exposed metal on other properly grounded equipment.

The anti-static wrist strap grounds your body. When working on an unplugged system, ground yourself with the wrist strap and touch a safe area of exposed metal on the system's power supply before touching any static-sensitive components in the case. This brings the equipment to the same static potential as your body, eliminating the possibility of ESD. Be sure to touch the power supply each time you resume work inside any system.

Preventing Damage to Disk Drives

To prevent ESD and physical shock damage to floppy diskette drive and/or hard disk drive(s), ensure the following safety precautions:

- Always utilize anti-static techniques when handling drives
- Always re-package drives in their original shipping packaging
- Never drop a drive onto any surface (hard/or soft)
- Shield work surface with a minimum of 1-inch shock-proof foam
- Always place a drive metal-side down (electronic-side up) on shock-proof foam

Work Area

Prepare a suitable work area before beginning disassembly. This should include a large, sturdy flat surface where you can work on both machines in a comfortable position. Make sure you have adequate lighting, and make provisions for grounding the provided anti-static strap. Choose an area without carpet to limit static buildup and to make it easier to find dropped fasteners.

Remove all external cables from the Power Macintosh before beginning disassembly. Ground the anti-static wrist strap and make sure you have available the large anti-static bag for the motherboard before you begin. Resealable plastic bags or film canisters are handy for holding small parts.

Tools Required

- #2 Phillips Head Screwdriver
- Torx™ T-8 Driver (7500, 7600 and 8500 only)
- Small flathead screwdriver

Included with this Kit:

- 1 Genesis MP Conversion Chassis
- 1 nPOWER Multiprocessor Card
- 1 Internal SCSI Cable
- 1 Floppy Disk Drive Cable
- 1 CD-ROM Audio Cable
- 1 Large Antistatic Bag for Motherboard
- 1 Motherboard Box with Foam
- 7 3.5" Drive Rail Pairs with Screws
- 3 5.25" Drive/Floppy Drive Rails with screws
- 1 Genesis MP CD-ROM
- 1 Genesis MP Boot Disk (floppy disk)
- 2 Keys for Locking Panel
- 1 Disposable Anti-Static Wrist Strap
- 1 Bag of Motherboard Screws
- 1 Bag of Spare Motherboard Screws
- 1 Genesis MP User Guide

Before You Begin...

To make your conversion go smoothly, follow the checklist below:

- If your Conversion Kit included directions for upgrading your motherboard, contact DayStar to arrange for the upgrade.
- Check the structure of your hard disk with Apple's Disk First Aid before beginning. Perform any needed disk repair before beginning the conversion.
- Back up all hard disks before beginning the conversion.
- Prepare a convenient, ESD-safe work area.
- Make sure you have received all the necessary components and software.
- Identify and read the appropriate procedures for the disassembly of your Mac and the assembly of the Genesis MP Conversion before proceeding.
- Make sure you have adequate time to convert before proceeding. Since your Mac will not be available until the conversion is complete, finish any pressing deadline work before beginning the conversion.
- Complete and test the Genesis MP Conversion before adding new upgrades to the software or hardware; it is difficult to troubleshoot more than one new upgrade at a time.

Contacting DayStar

If you need technical assistance with the Genesis MP Conversion, you should contact your authorized reseller or service center. If you need further assistance, or if you have other questions, you may contact DayStar at:

DayStar Digital
5556 Atlanta Highway
Flowery Branch, GA 30542
770.967.2077

email: support@daystar.com

World Wide Web: <http://daystar.com/>

Disassembling the Power Macintosh 8500 or 9500

Getting Started...

The Power Macintosh 8500 and 9500 are housed in nearly identical tower cases. The 9500 case is taller, the motherboard has more PCI and DIMM slots, and there is a cooling fan for the PCI card area. The 8500, by contrast, has an Audio/Video (AV) module which must be unplugged and removed for reuse.



The Power Macintosh 8500



The Power Macintosh 9500



The Power Macintosh 8500 (rear)



The Power Macintosh 9500 (rear)

Because of the similarity of the machines, most disassembly steps are identical. Most of the photos feature a Power Macintosh 9500. We will call your attention to the very few special procedures for disassembly of the 8500 when those steps are reached.

You will be re-using the motherboard, RAM DIMMs, VRAM DIMMs (8500 only), floppy disk drive, hard drive(s), CD-ROM drive, Audio/Video (AV) module and screws (8500 only), and any installed peripherals. You must wear the provided anti-static wrist strap once you open the machine's case.

Please read and understand the disassembly procedure before beginning disassembly of the unit. Also, read and understand the chapter: **Conversion Basics**, especially the section on **Electrostatic Discharge**.

Tools Required

- #2 Phillips Head Screwdriver
- Torx™ T-8 Driver (8500 only)
- Small flathead screwdriver

Opening the Case

To open the 8500/9500 case, disconnect all external cables and loosen the captive screws securing the cover...



Loosen the captive screws

separate the cover from the chassis with gentle finger pressure...



Separate the cover from the chassis

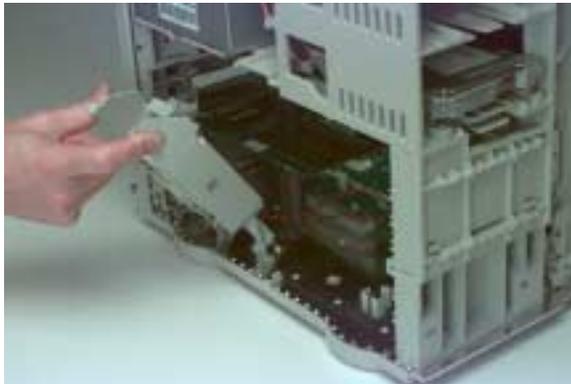
then spread the sides of the cover apart slightly and lift the cover forward, up and off.



Spread the sides slightly and remove the cover

Removing PCI cards and Processor Card

Open the card support to obtain access to the PCI and processor card slots. The 9500 card support contains a cooling fan which gets its power from the motherboard.



Opening 9500 fan/card support

The 8500 card support does not have a fan.



Opening 8500 card support

Disconnect any cables attached to the PCI cards if you have not already done so.

Remove any PCI cards (if installed) by spreading apart the retain-er tabs and pulling the card out of the slot. If necessary, wiggle the card left and right a little bit to free it up. Do NOT stress the card up and down - this could damage the card and the PCI connector. Set PCI card(s) aside for reuse in the Genesis MP Conversion.



Remove installed PCI card(s)

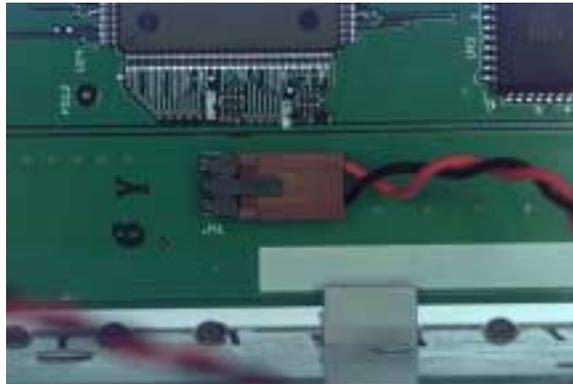
Remove the processor card and set it aside. You will not reuse the processor card in the Genesis MP Conversion.



Remove processor card

Unplug the PCI Cooling Fan (9500 only)

The PCI cooling fan in the 9500's card support connects to the motherboard through a short cable. Follow the cable to the connector on the motherboard and disconnect it. The fan will not be reused in the Genesis MP Conversion. The 8500 card support does not have a PCI cooling fan.



PCI cooling fan connector

Remove the Audio/Video (AV) Cable (8500 only)

Remove the AV cable from its connector (located near the 8500's processor card slot). Use care - the AV cable is delicate and the cable and module will be reused in the Genesis MP.



Remove the AV cable

Remove Cables from the Motherboard

There are six cables connected to the top of the motherboard. They are (from left to right in the photo below): motherboard 3.3v power, floppy disk drive, CD-ROM audio, speaker, motherboard main power, and internal SCSI. Remove them at this time, referring to the photos below. None of these cables are reused in the Genesis MP Conversion.



Remove these six cables

Pull the SCSI cable straight up by its handle.



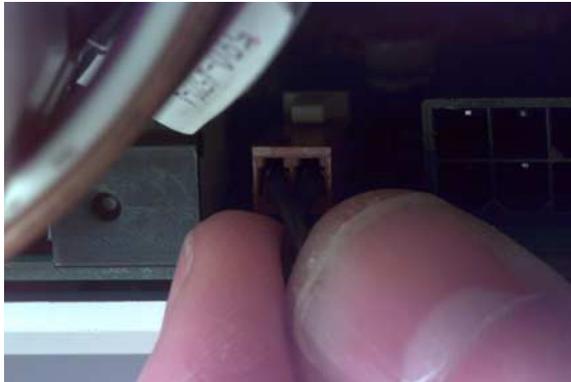
Remove the SCSI cable

The two power supply connectors lock into place with a latch. Mild thumb pressure will lift the latch and allow removal of the connector, as illustrated below.



Remove the motherboard main power cable

Remove the speaker cable. Note the positive locking latch at the top of the connector in the photo below. If the connector is stubborn, wiggle it left and right while pulling.



Remove speaker cable

Remove the floppy disk drive cable by pulling the attached tab.



Remove floppy disk drive cable

Remove the motherboard 3.3v power cable. Press the locking mechanism to release the cable.



Remove motherboard 3.3v cable

Remove the CD-ROM audio cable. You will probably find it easiest to remove the cable from the CD-ROM drive at this time and remove it from the motherboard once the motherboard has been removed from the chassis.



Remove CD-ROM audio cable from CD-ROM drive

Remove the plastic power switch/LED holder from the chassis by pressing the retaining tabs and pressing the switch forward and out of the machine. Let the holder hang to provide slack for removal of the motherboard. In some cases, you will be able to remove the LED from the LED holder to free the motherboard. The LED and plastic power switch will not be used in the Genesis MP Conversion.



Remove plastic power switch/LED holder



Provide slack for removal of motherboard

Removing the Motherboard

The motherboard and tray are held in with one central screw, one latching tab and several sliding hooks built into the case. Removal is a matter of removing the central screw, then lifting the latching tab and sliding the motherboard tray forward to allow release of the tray and motherboard from the case. The motherboard may then be removed from the motherboard tray.



CAUTION

*The motherboard is delicate - handle it with care. Make sure you are wearing the provided ground strap and observing ESD (electrostatic discharge)-safe procedures as described in the **Conversion Basics** chapter of this manual. Prepare the supplied anti-static bag before you remove the motherboard, and place the motherboard in the anti-static bag immediately upon removal to keep it safe from damage by ESD.*



IMPORTANT

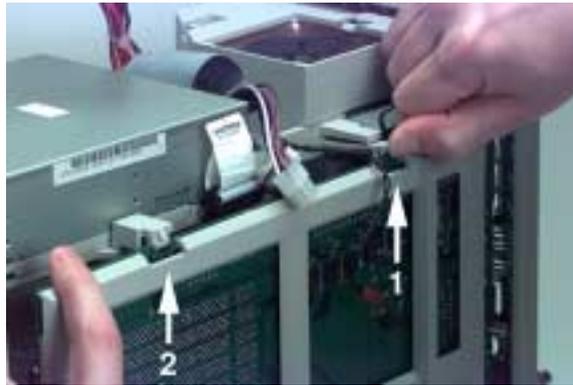
The motherboard should come out very easily if you follow the instructions below. If you are having difficulty removing the motherboard, use caution; you may not have everything disconnected. Review the instructions to make sure you've followed all the steps and try again.

Remove the central screw holding the motherboard in place. The screw is located in the center of the plastic motherboard tray.



Remove the central screw

Note the latching tab and the notch in the motherboard near the top motherboard hook.



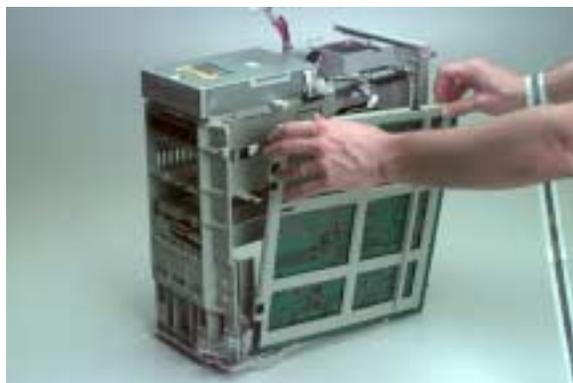
Lift latching tab (1). Align hook with notch (2)

Lift the latching tab and slide the motherboard forward until the top motherboard hook is centered in the notch in the motherboard.



Lift the latching tab and slide the motherboard forward

Tilt the motherboard out from the top and lay it flat on the work surface, taking care not to put undue stress on the LED cable (if still connected).



Remove motherboard by tilting out from the top

If the LED cable is still connected, remove it now.



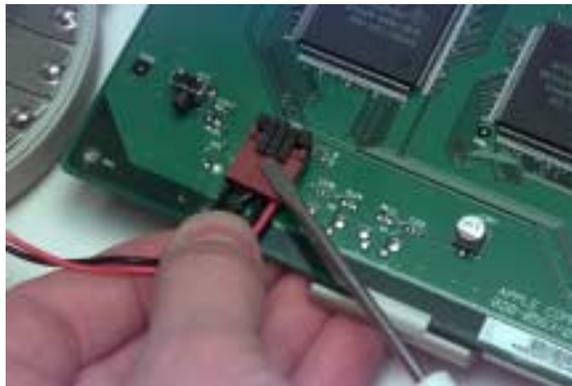
Remove the LED cable

If needed, apply leverage gently with a small flathead screwdriver.



CAUTION

It is possible to break the LED connector by applying more than gentle leverage. Use care.



Use gentle leverage if needed

Remove the CD-ROM audio cable if still attached.



Remove CD-ROM audio cable

Remove the motherboard tray from the motherboard by lifting the two latches...



Unlatch the motherboard tray...

...and tilting the tray off. The tray will not be reused in the Genesis MP Conversion.



...and tilt the tray off

Immediately place the motherboard in the provided anti-static bag to protect it from damage by electrostatic discharge (ESD).



IMPORTANT:

If your motherboard is to be upgraded by DayStar, consult the literature included with your Genesis MP Conversion for important information about preparing your motherboard for shipment.



Place motherboard in anti-static bag

Removing Storage Peripherals

You will be removing and reusing the CD-ROM drive, floppy disk drive, hard disk drive(s) and any installed internal SCSI peripherals in the Genesis MP Conversion. The drive carrier trays will not be reused and must be removed.

Remove the SCSI cable from the CD-ROM drive...



Remove CD-ROM SCSI cable

...then remove the power cable.



Remove CD-ROM power cable

Remove the CD-ROM drive by lifting the latching tab at the front of the drive and pulling the drive forward until it is released from the chassis. Set the drive aside - it will be reused in the Genesis MP Conversion.



Remove the CD-ROM drive

Unlatch the drive bay support to provide access to the floppy disk drive cable



Unlatch the drive bay support

Remove the floppy disk drive cable.



Remove the floppy drive cable

Remove the floppy drive by pressing the release latch and pushing the drive forward and out of the machine. Set the floppy disk drive aside - it will be reused in the Genesis MP Conversion.



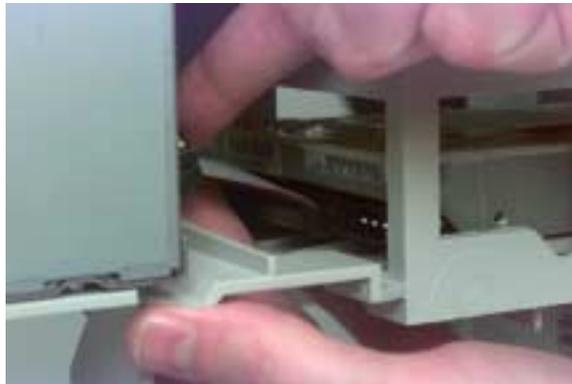
Remove the floppy disk drive

Unplug the hard drive power cable from the rear of the hard drive



Unplug hard drive power cable

Unplug the hard drive SCSI cable from the hard drive.



Unplug hard drive SCSI cable

Remove the hard drive by pressing the latching tab and pulling the drive forward, out of the chassis.



Remove hard drive

Remove the floppy disk drive carrier tray by removing the four screws and lifting it off. The drive tray is not reused in the Genesis MP Conversion.



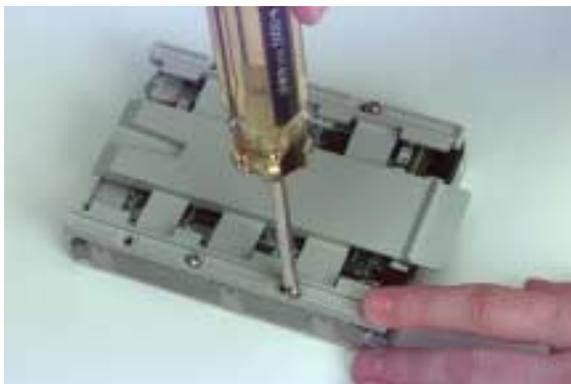
Remove the floppy drive tray

Remove the floppy disk drive EMI shielding (sometimes held on by tape - remove the tape). The EMI shielding is not reused in the Genesis MP Conversion.



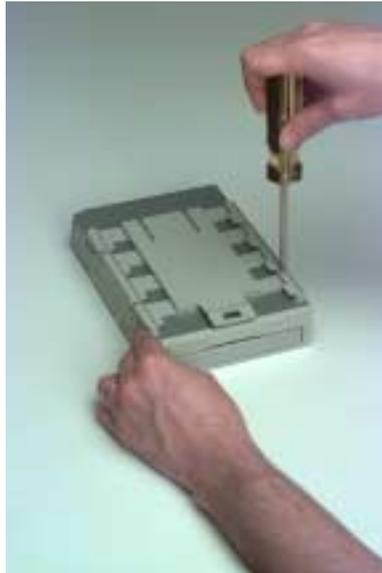
Remove floppy disk EMI shield

Remove the hard drive carrier tray by removing the four screws and lifting the tray off. The carrier tray is not reused in the Genesis MP Conversion.



Remove hard drive tray

Remove the CD-ROM drive carrier tray by removing the four screws and lifting the tray off. The carrier tray is not reused in the Genesis MP Conversion.



Remove the CD-ROM tray

Removing Audio/Video (AV) Module (8500 only)

Using a Torx™ T-8 driver, remove the two screws holding the AV module in place. Remove the AV module from the inside of the 8500 case.



Remove the AV module

Save the AV module and screws - they will be reused in the Genesis MP.

Wrap-Up...

This concludes disassembly of the Power Macintosh 8500 or 9500. Before continuing with assembly of the Genesis MP, check to ensure that you have all of the components from the 8500 or 9500 that will be reused in the Genesis MP:

- Power Macintosh Motherboard (in anti-static bag)
- Any previously installed RAM DIMMs
- Any previously installed PCI cards
- Hard drive(s) and other internal SCSI devices
- Floppy drive
- CD-ROM drive
- AC Power Cord
- Any previously installed VRAM DIMMs (8500 only)
- AV module and screws (8500 only)
- L2 Cache (socketed on 8500 only)

If your motherboard requires an upgrade, consult the upgrade literature that came with your Genesis MP Conversion for details on preparing the motherboard for shipping. Motherboards requiring upgrades must be upgraded before assembly of the Genesis MP Conversion.

Disassembling the Power Macintosh 7500 or 7600

Getting Started...

The Power Macintosh 7500 and 7600 are identical in terms of disassembly. All steps in this section refer both machines. Disassembly of the Power Macintosh 7500 or 7600 is quite easy; it is possible to access all components with a minimum of tools.



The Power Macintosh 7500 (7600 is similar).

You will be re-using the motherboard, RAM and VRAM DIMMs, floppy disk drive, hard drive(s), CD-ROM drive, Audio/Video (AV) module and screws, cache (if equipped) and any installed peripherals. You must wear the provided anti-static wrist strap once you open the 7500/7600 case.

Please read and understand the disassembly procedure before beginning disassembly of the unit. Also, read and understand the chapter: **Conversion Basics**, especially the section on **Electrostatic Discharge**.

Tools Required

- #2 Phillips Head Screwdriver
- Torx™ T-8 Driver
- Small flathead screwdriver

Opening the Case

To open the Power Macintosh 7500/7600 case, disconnect all external cables, squeeze the release buttons on the front panel and pull the case cover forward, then up and off as illustrated by the photos below.



Squeeze the release buttons...



*and pull the cover
forward, up and off*

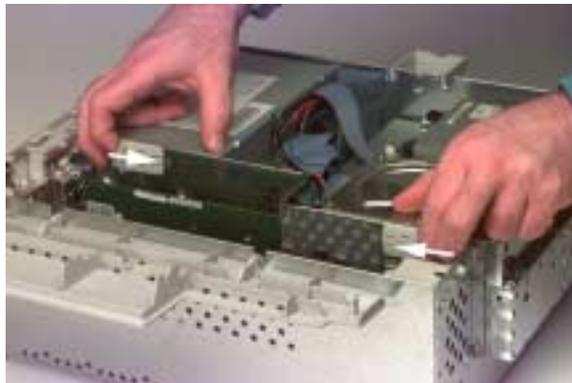
Accessing the Motherboard

Open the PCI card support cover and the drive bay/power supply carrier stand as shown in the photo below. Note that the carrier stand latches into the chassis when fully open.



Open the PCI card support cover and drive bay/power supply support stand

Open the latches holding the drive bay/power supply carrier by flipping them toward the inside of the 7500/7600 chassis as shown in the photo below.



Flip open the latches

Open the drive bay/power supply carrier by swiveling it out.



Open the carrier

Set the prop support so that it clicks into the hole in the case.



Set the prop

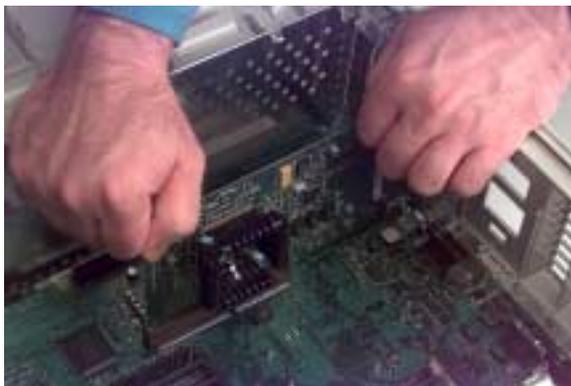


NOTE:

The prop prevents the drive bay/power supply carrier from tipping back into the case. However, if you pick the 7500/7600 case up with the drive bay/power supply carrier open, the carrier will tip outside of the case. If possible, leave the 7500/7600 flat on a table for the duration of the disassembly.

Remove the Processor Card

Remove the processor card by pulling it straight up and out of the 7500/7600 motherboard. Remove any installed PCI cards at this time. Set aside PCI cards for re-use. The processor card is not re-used.



Remove the processor card

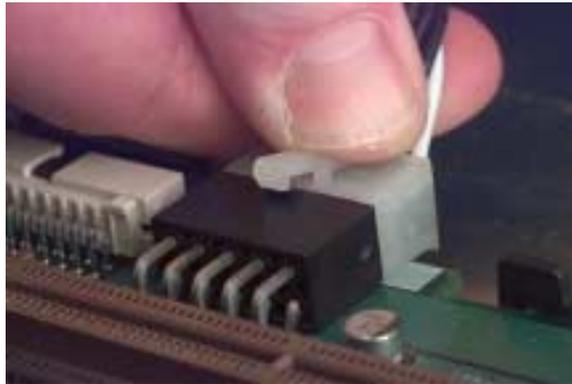
Remove Cables from the Motherboard

There are 8 cables connected to the 7500/7600 motherboard. Most may be removed easily. Begin by removing the Audio Video (AV) cable, located near the processor card slot. Use care - the AV cable is delicate and the cable and module will be reused in the Genesis MP.



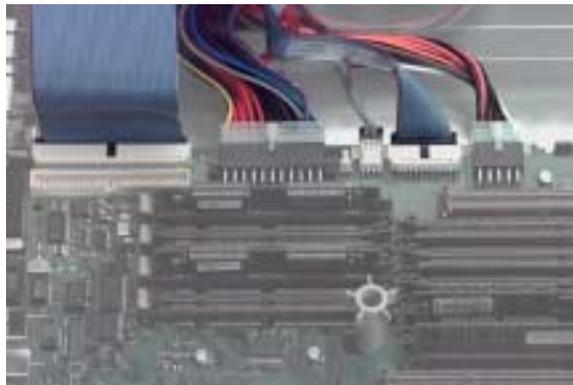
Remove the AV cable

The two power supply connectors lock into place with a latch. Mild thumb pressure will lift the latch and allow removal of the connector, as illustrated below.



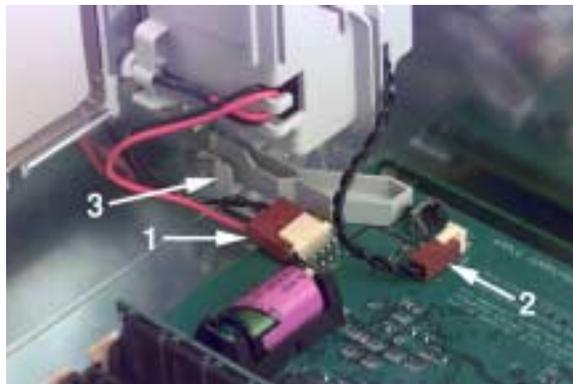
Thumb pressure opens latch

Remove from the motherboard the SCSI, main motherboard power, CD-ROM audio, floppy drive, and motherboard 3.3v power cables shown in the photo below. These cables will not be reused in the Genesis MP.



Remove these five cables

Remove the speaker cable from the front of the motherboard. Remove the plastic power button by squeezing the retaining tabs and pushing the button out through the front of the machine.



LED cable (1), speaker cable (2) and plastic power button (3)

The LED cable, located nearby, may be stiff and difficult to remove while the motherboard is in its normal position. If you cannot remove the LED cable at this time, you may remove the LED from its holder, or remove the motherboard with the LED cable in place in order to obtain clearance to work on the LED connector. The speaker and LED cables will not be re-used in the Genesis MP.

Removing the Motherboard

The motherboard is held into the 7500/7600 with one central screw, two latching tabs and several sliding hooks built into the case. Removal is a matter of removing the central screw and sliding the motherboard out while pressing the latching tabs.



CAUTION

*The motherboard is delicate - handle it with care. Make sure you are wearing the provided ground strap and observing ESD (electrostatic discharge)-safe procedures as described in the **Conversion Basics** chapter of this manual. Prepare the supplied anti-static bag before you remove the motherboard, and place the motherboard in the anti-static bag immediately upon removal to keep it safe from damage by ESD.*



IMPORTANT

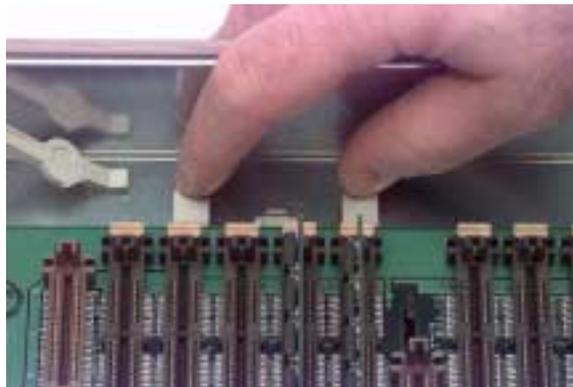
The motherboard should come out very easily if you follow the instructions below. If you are having difficulty removing the motherboard, use caution; you may not have everything disconnected. Review the instructions to make sure you've followed all the steps and try again.

Remove the central screw holding the motherboard in place. The screw is located in the plastic central support.



Remove the central screw

Press and hold the motherboard latching tabs while sliding the motherboard forward to release it from the case. Press on the monitor connector at the rear center of the case to push the motherboard forward.

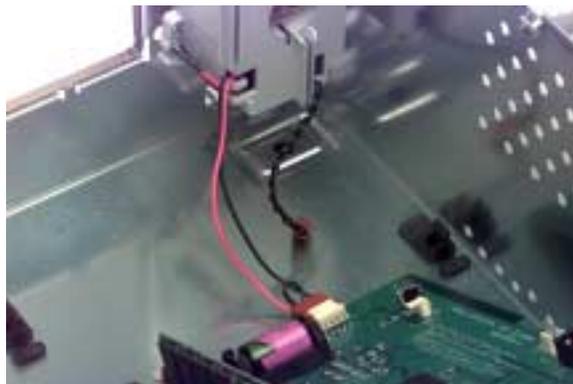


Press the latching tabs...



Push the motherboard forward by pressing monitor connector

If you have not yet removed the LED cable, this is the time to do so. Move the motherboard to the rear of the case and prop it up to provide clearance to work on the LED connector.



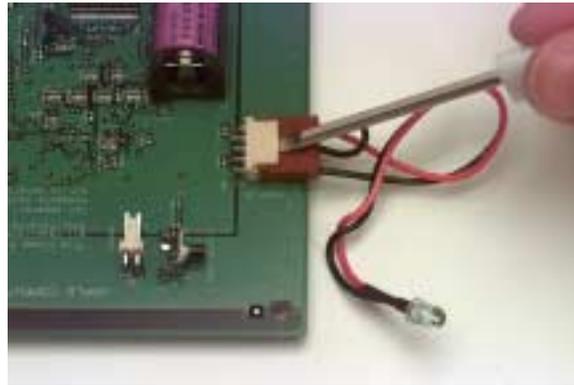
Provide clearance to work on LED connector

The best way to remove the LED connector is to rock the connector from side to side to loosen its locking mechanism. If needed, use careful leverage from a small flathead screwdriver to lift the locking mechanism.



CAUTION

It is possible to break the connector by applying more than a gentle lift to the positive locking mechanism. Use care.



Gentle leverage applied to locking mechanism

To keep the motherboard safe from damage due to ESD, place it in the provided anti-static bag until it's needed.



Place in anti-static bag



IMPORTANT:

If your motherboard is to be upgraded by DayStar, consult the literature included with your Genesis MP Conversion for important information about preparing your motherboard for shipment.

Removing the Audio/Video (AV) Module

Using a Torx™ T-8 driver, remove the two screws holding the AV module in place. Remove the AV module from the inside of the 7500/7600 case.



Remove the AV Module

Save the AV module and screws - they will be reused in the Genesis MP.

Removing Storage Devices

Remove the lower EMI shielding from the CD-ROM and lower 3.5" drive bays by pressing the tabs as shown.



WARNING

The shielding may be sharp - remove it carefully.



Remove lower EMI shield

Remove the upper EMI shielding from the floppy disk drive and upper 3.5" drive bay by lifting as shown in the photo. None of the EMI shielding will be reused in the Genesis MP.



Remove upper EMI shield

Remove the floppy disk drive by removing the cable, spreading the retaining arms and pushing the drive toward the back of the 7500/7600 case. Keep the floppy drive - it will be reused in the Genesis MP.



Remove the floppy drive

Remove the hard drive by lifting the tab at the front of the disk and pulling it forward.



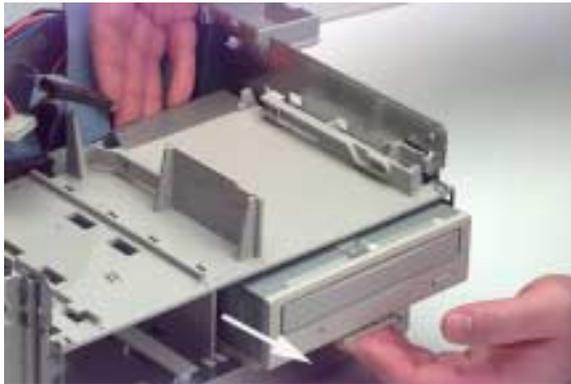
Remove the hard drive

Once the hard drive is free, remove the SCSI and power cables from the hard drive. Keep the hard drive - it will be reused in the Genesis MP.



Remove hard drive cables

Lift the tab at the front of the CD-ROM drive and push it forward.



Remove CD-ROM drive

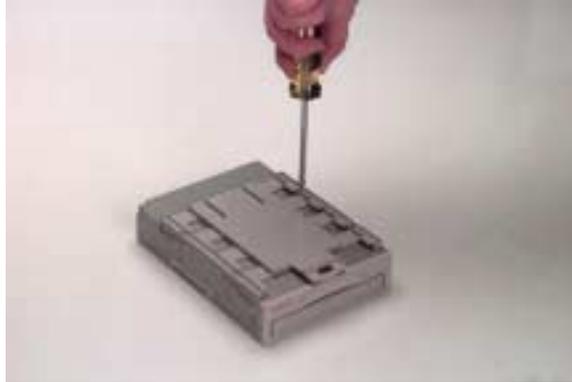
Once the CD-ROM drive is pushed forward enough to provide clearance, remove the SCSI and power cables and remove the drive from the machine. Keep the CD-ROM drive - it will be reused in the Genesis MP.



Remove SCSI and power cables

Remove Drive Carrier Trays and Screws

Remove the carrier trays from the hard drive and CD-ROM drive. The trays attach with four screws. Carrier trays are not reused in the Genesis MP.



Remove the drive tray. (CD-ROM shown, hard drive similar)

Remove the four carrier screws from the floppy drive as shown. Carrier screws are not reused in the Genesis MP.



Remove carrier screws

Wrap-Up...

This concludes disassembly of the Power Macintosh 7500 or 7600. Before continuing with assembly of the Genesis MP, check to ensure that you have all of the components from the 7500/7600 that will be reused in the Genesis MP:

- Power Macintosh 7500/7600 Motherboard (in anti-static bag)
- Any previously installed RAM DIMMs
- Any previously installed VRAM DIMMs
- L2 Cache (where installed)
- Any previously installed PCI cards
- Hard drive(s)
- Floppy drive
- CD-ROM drive
- AC power cord
- AV module

If your motherboard requires an upgrade, consult the upgrade literature that came with your Genesis MP Conversion for details on preparing the motherboard for shipping. Motherboards requiring upgrades must be upgraded before assembly of the Genesis MP Conversion.

Assembling the Genesis MP Conversion

Getting Started

This chapter details assembly of both the six-slot and three-slot Genesis MP Conversions. Before beginning assembly, read through this chapter, check to make sure you have all the supplied parts for the conversion (consult Chapter One), and check the disassembly chapter for your original machine to make sure you have all of the parts necessary for the conversion.

If your motherboard requires upgrading (see Chapter One), you must send it to be upgraded before proceeding.

Some assembly procedures in this chapter apply only to the three-slot Genesis MP Conversion. Those sections are marked with this icon:

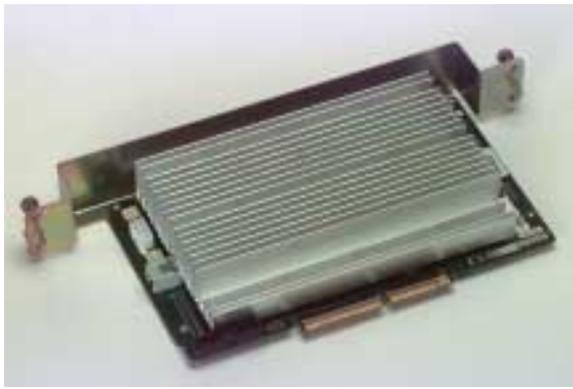


Conversion Kit Contents

Take a minute and familiarize yourself with the parts provided in the Genesis MP Conversion kit.

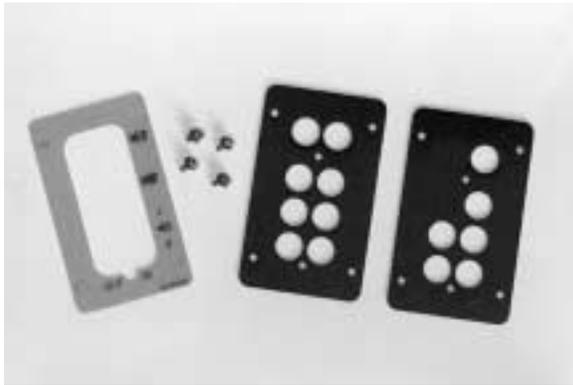


Conversion parts



nPOWER multiprocessor card

3
PCI



*AV panel label, panel screws,
8500 panel, 7500 panel
(three-slot only)*

Upgraded Motherboard

Motherboard upgrades, where required, must be completed before you begin assembling the Genesis MP Conversion. Consult the literature shipped with your Genesis MP Conversion to determine whether your motherboard requires upgrading.

Unpack the upgraded motherboard only in an ESD-safe work area (see Chapter One). Unpack the motherboard now, taking care not to damage sensitive motherboard components while opening the protective anti-static bag.



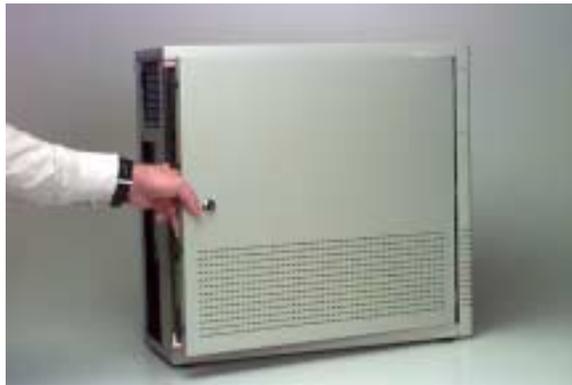
Upgraded motherboard

Assembling the Genesis MP Conversion

Loosen the captive screws which hold the Genesis MP side cover in place and remove the side cover.



Loosen captive cover screws



Remove side cover

You will probably find it easiest to place the unit flat on its right side for most of the assembly procedure.



Place case flat on work surface

Remove the packing tape which holds the various cables to the motherboard tray.

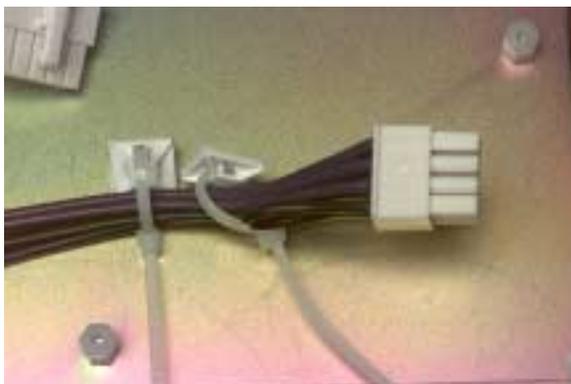


Remove packing tape



NOTE:

One cable has two zip-ties (each with a cable anchor) partially installed. This is the nPOWER 3.3v power cable. Take care not to tighten the zip-ties or expose the adhesive backs of the cable anchors yet. They will be installed after the motherboard and the nPOWER card are in place.

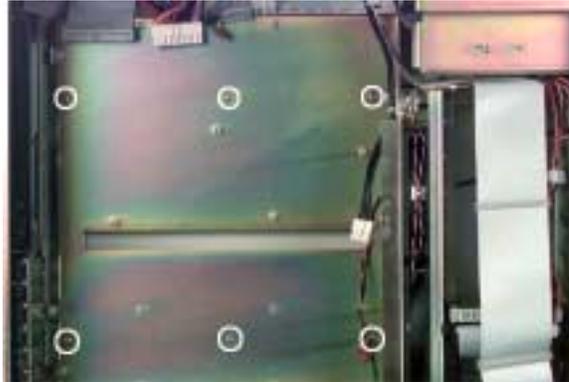


Cable anchors will be installed after motherboard is in place

Prepare the Motherboard Tray for the Motherboard

The motherboard tray is the large metal tray which holds the motherboard, the drive bay fans and the PCI bracket.

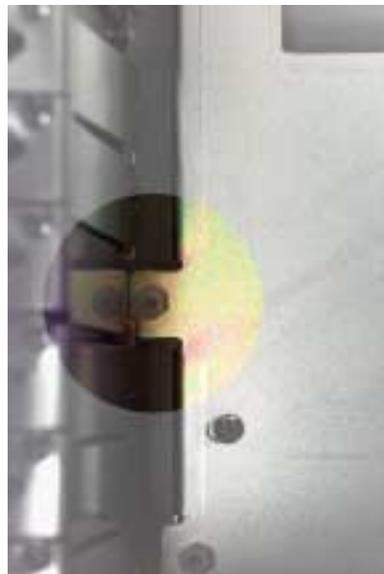
The motherboard tray will need to be adjusted with your motherboard in place. Before you can proceed, you need to make sure the motherboard tray can move freely to accept the adjustment, and that there is room to install the motherboard.



The motherboard tray. Circles indicate 6 adjustment screws

Slightly loosen the six screws which hold the motherboard tray in place. The holes for the six screws are slotted to provide room for adjustment.

Make sure there is room to slide the tray forward and back in the Genesis MP Conversion case. If the tray will not move towards the rear of the machine, check to make sure the tray is not hitting one of the blank PCI slot covers. Adjusting the PCI slot cover will provide the needed clearance.



Adjust PCI slot cover to provide clearance to move tray

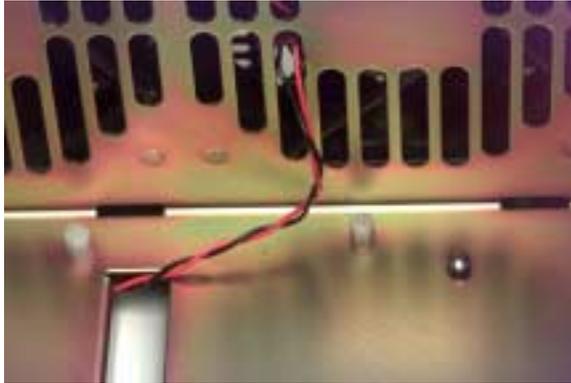
Remove the PCI bracket (see below: **PCI Bracket**) if attached, to make room for installation of the motherboard.

Get the LED cable out of the way for the time being by poking it into the fan cage.



IMPORTANT!

Remember to pull the LED cable back out of the fan cage once the motherboard has been installed.

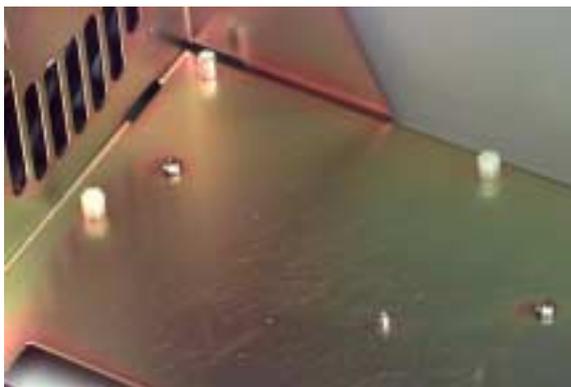


Use fan cage to hold LED cable out of the way of motherboard

Mounted on the motherboard tray are several standoffs, some made of nylon and some made of metal. The motherboard mounts to these standoffs, and attaches with screws.

Depending upon whether you are assembling a three-slot or a six-slot conversion, there may be two or more threaded metal studs protruding from the motherboard tray. These are not used, but do not need to be removed.

Locate the *large* standoffs - you will attach the motherboard to these standoffs for the motherboard tray adjustment.



Detail of motherboard tray showing metal and Nylon standoffs, empty studs, tray screws.

About Motherboard Screws...

There are two sizes of motherboard screws. It is important that you use the large screws for the large standoffs, and the small screws for the small standoffs. Failure to do so will damage the standoffs.

Consult the photo and diagram “**Motherboard Screws and Standoffs**” for detailed information on your motherboard tray *before* installing the motherboard.



Two sizes of motherboard screws

About the Motherboard Tray Adjustment...

The Genesis MP motherboard is installed on an adjustable tray. You will need to adjust the fit of the motherboard and tray in the Genesis MP Case.

You are about to temporarily attach the motherboard to the tray for the purpose of making the motherboard tray adjustment. You will be removing the motherboard again in a few moments after adjustment.

Insert the motherboard into the Genesis MP Conversion case.



Insert motherboard

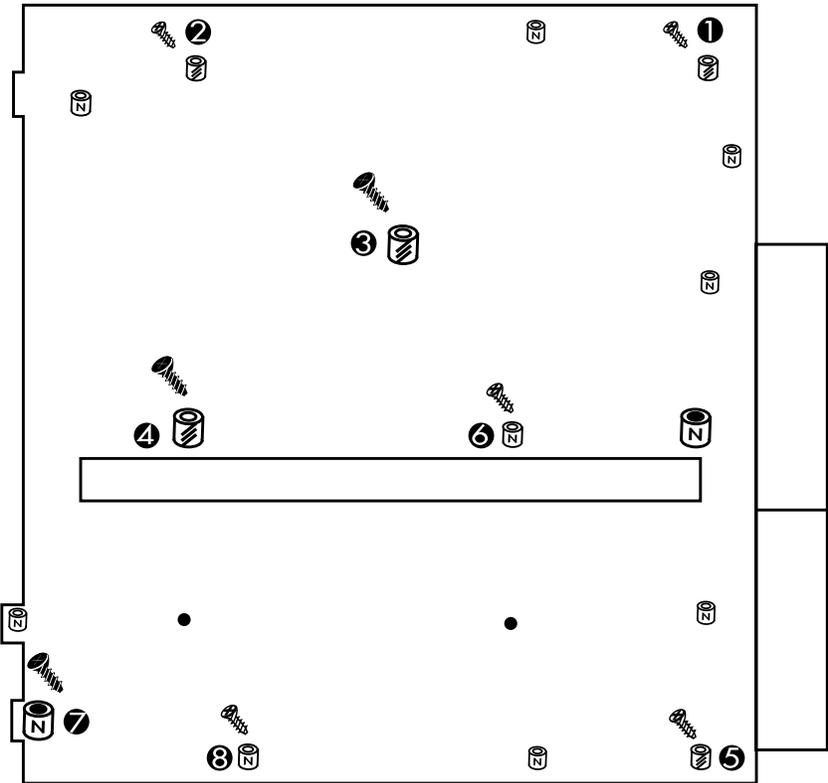
Motherboard Screws and Standoffs

6-slot motherboard, 8 screw tray



⊕ Small Screw

⊖ Large Screw



① Screw Number

⊖ Large Screw

⊖ Large Metal Standoff

⊖ Large Nylon Standoff

⊕ Small Screw

⊖ Small Metal Standoff

⊖ Small Nylon Standoff

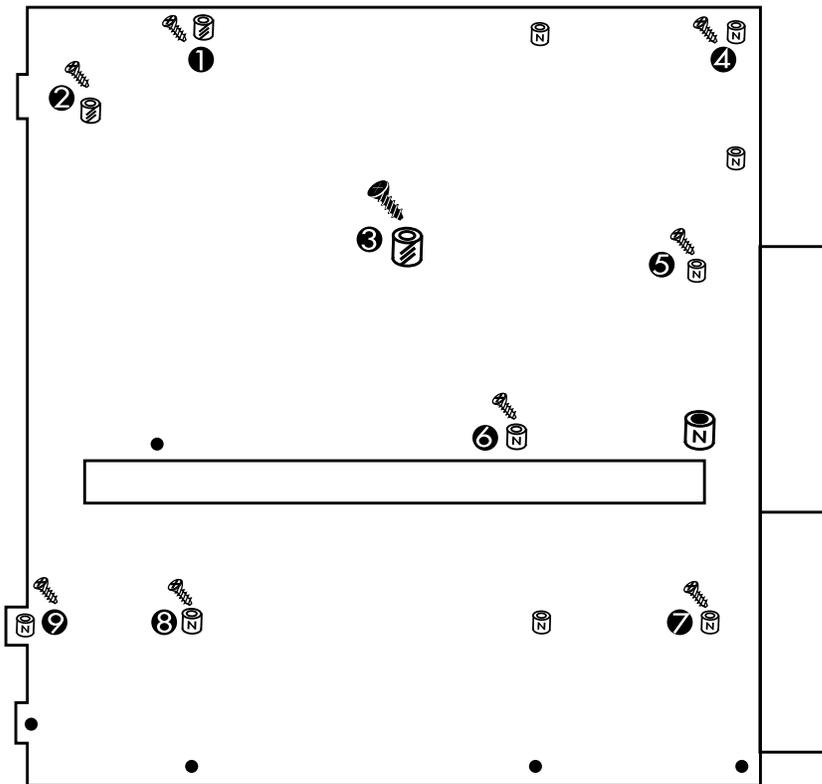
Motherboard Screws and Standoffs

3 slot motherboard, 9 screw tray



⊕ Small Screw

⊖ Large Screw



① Screw Number

Large Screw

Large Metal Standoff

Large Nylon Standoff

Small Screw

Small Metal Standoff

Small Nylon Standoff

Motherboard Tray Adjustment

Carefully attach the motherboard to the motherboard tray using only the LARGE motherboard screws. Consult the photo and diagram “Motherboard Screws and Standoffs” for placement of the screws.



CAUTION!

Motherboard screws come in two sizes. Using the wrong screw for a given standoff will destroy the standoff. Make certain that you are using the correct screws. Consult the photo and diagram “Motherboard Screws and Standoffs” for detailed information.



CAUTION!

Be very careful not to over-tighten screws landing into Nylon stand-offs. Nylon standoffs will strip out easily if overtightened. Replacement of the standoffs is difficult and time-consuming; proceed carefully!



Gently attach motherboard

Apply gentle-but-firm pressure to the motherboard AND tray as indicated in the photo below to snug the motherboard and I/O connectors against the gasket on the back wall.



Press to snug motherboard...



...against gasket on back wall

Once the motherboard and tray have been pressed against the gasket, remove the motherboard screws, taking care not to disturb the positioning of the motherboard tray...



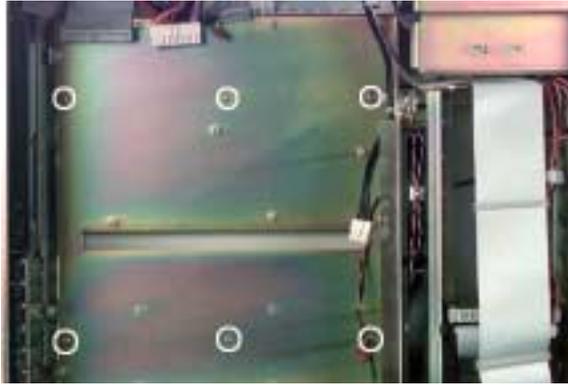
Remove motherboard screws

and remove the motherboard.



Remove motherboard

Tighten the 6 motherboard tray securing screws to maintain the adjustment.



The motherboard tray. Circles indicate 6 adjustment screws

Replace the motherboard in the case...



Insert motherboard

and install the screws. Refer to the photo and diagram “**Motherboard Screws and Standoffs**” for placement of the screws. Take care not to strip out the nylon standoffs.



Install motherboard screws

Attach Motherboard Cables

With the motherboard in place, you are ready to install the cables. Retrieve the LED cable from the fan cage and attach it to the motherboard as shown.



Attach LED cable

Attach the SCSI cable.



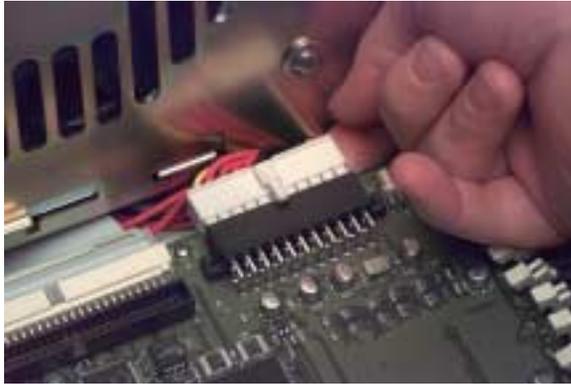
Attach SCSI cable

Form a bend in the motherboard power cable assembly to make it easier to fit to its connector...



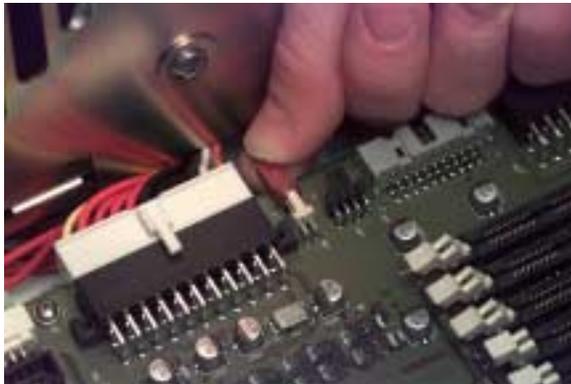
Pre-form bend in power cable

and attach it to the motherboard.



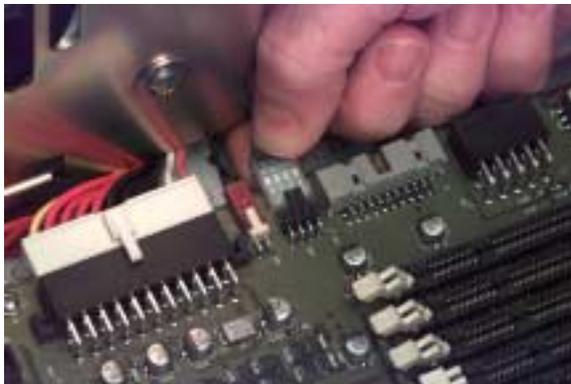
Attach power cable

Attach the speaker cable...



Attach speaker cable

and the CD-ROM audio cable.



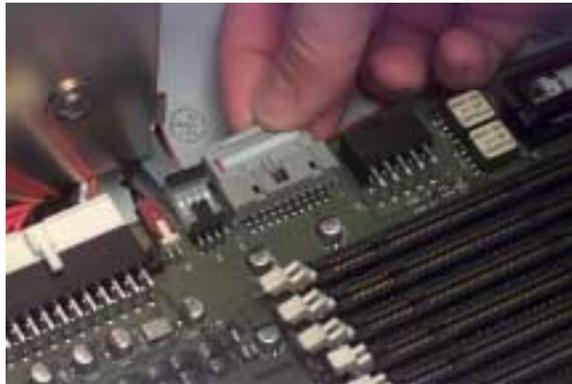
Attach CD-ROM audio cable

Form a 90 degree bend in the CD-ROM audio cable to make routing easier.



Form CD-ROM audio cable

Attach the floppy disk drive cable...



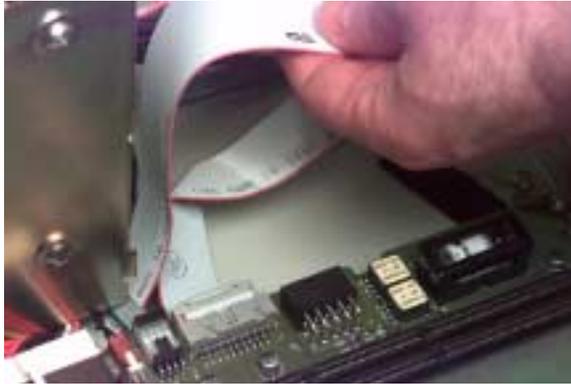
Attach floppy drive cable

form a 90 degree bend...



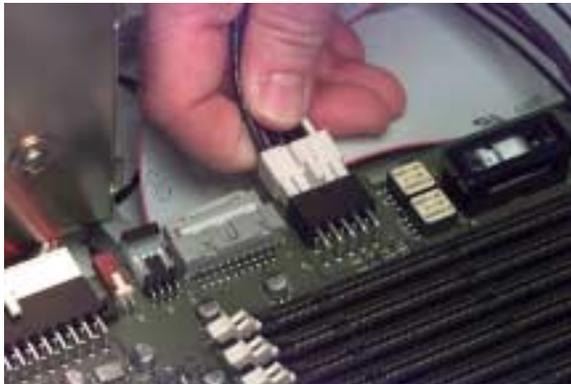
Form floppy drive cable

and route it beneath the SCSI cable.



Route floppy drive cable

Finally, attach the motherboard 3.3v power cable.



Attach 3.3v power cable

The AV Panel (3-slot Genesis MP only)

3
PCI

The AV panel allows you to connect the Genesis MP to audio and video devices. It mounts on the rear panel of the Genesis MP.

Affix the AV panel label to the appropriate metal AV panel supplied with the Genesis MP Conversion. The label is right-side-up when the small screw hole at the bottom of the panel is not obscured by the label.



Affix AV panel label

Attach the AV panel to the Genesis MP rear panel using the four screws provided.



Attach AV panel to the Genesis MP rear panel

Connect the AV module (saved from the converted Power Macintosh) to the motherboard by plugging in the cable.



IMPORTANT

The AV cable is very delicate. Do not flex or stress the cable where it meets the AV module.



Connect the AV module to the motherboard

Carefully position the AV module in the AV panel. Take special care not to stress the AV cable or flex it more than is necessary.



Position the AV module

Attach the AV module to the AV panel with the two Torx™ screws from the converted Power Macintosh.



Attach the AV module

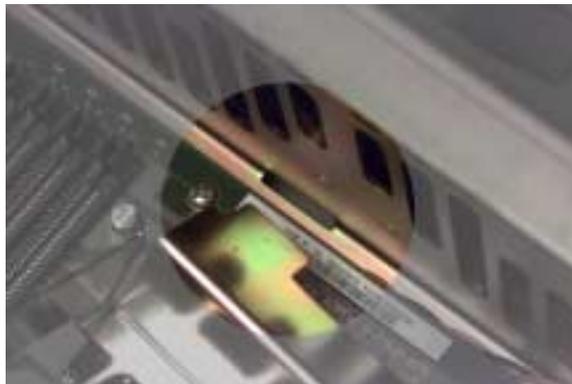
The PCI Bracket

The PCI bracket provides mechanical support for installed full-length PCI cards. It is installed on the back of the fan cage on the motherboard tray.



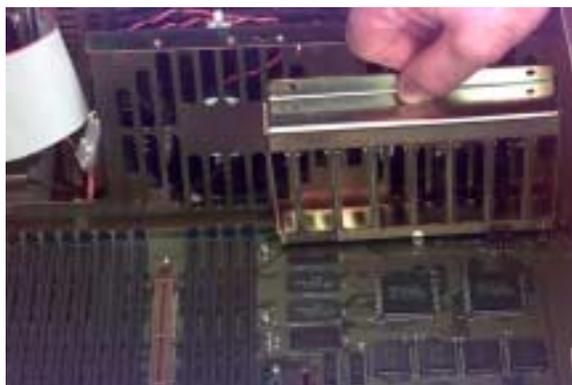
PCI bracket and nuts

Align the PCI bracket tabs with the slots in the motherboard tray.



Align tab with slot

Insert the PCI bracket...



Insert PCI bracket

and install the securing nuts.

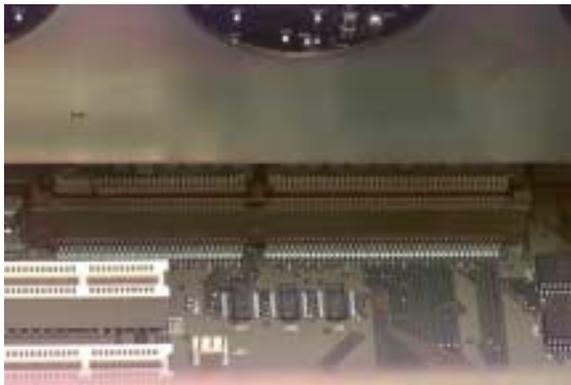


Tighten securing nuts

Installing the nPOWER Multiprocessor Card

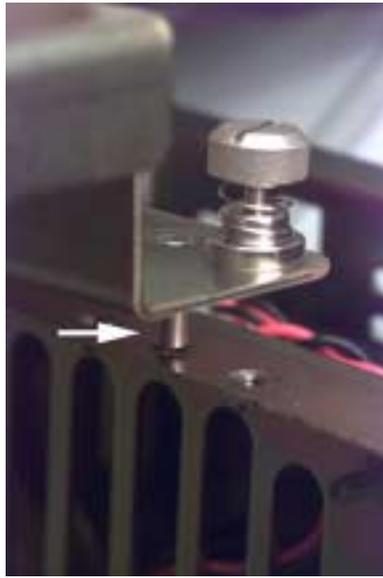
The nPOWER card is supported by a bracket which prevents mechanical strain on the motherboard. For easiest installation, make sure the Genesis MP is laying on its right side, as indicated earlier in this manual.

Make sure the nPOWER card edge connector lines up with its slot on the motherboard...



nPOWER card fits in slot

line up the guide pins on the nPOWER bracket with the holes in the chassis...



nPOWER card guide pin (1 of 2)

and insert the nPOWER card, applying gentle pressure to seat it.



Insert nPOWER card

Tighten the securing screws.



Tighten nPOWER card screws

Connect the nPOWER 3.3v power cable.



Attach nPOWER 3.3v power

Anchoring the nPOWER 3.3v Power Cable

In this section, you will secure the zip-ties and cable anchors mentioned earlier. Read this section, look at the pictures, and then begin.

Form a ninety degree bend in the nPOWER 3.3v power cable near the fan cage.



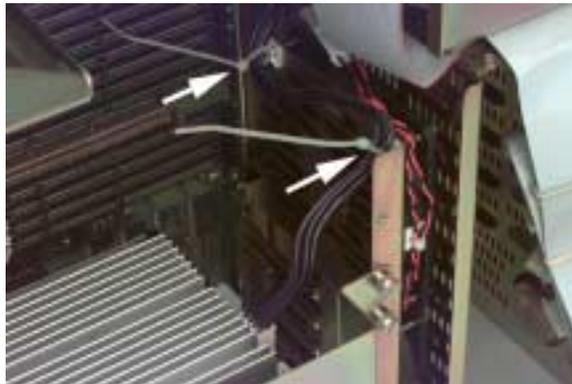
Form nPOWER 3.3v cable

Form another ninety degree bend in the nPOWER 3.3v power cable near the motherboard at the fan cage.



Form nPOWER 3.3v cable

Pull the backing off of the adhesive cable anchors and attach them to the nPOWER-side of the fan cage in the positions indicated in the photo.



Attach cable anchors

Tighten and clip the zip-ties to make the installation permanent.



Tighten and clip the zip-ties

The finished installation should look like the photo below.



Finished 3.3v cable installation

Installing the CD-ROM drive

Place the Genesis MP Conversion upright on its feet. Remove the bezels and vent cover from the front of the unit in preparation for mounting storage devices.

Remove the CD-ROM bezel...



Remove CD-ROM bezel

the blank bezel...



Remove blank bezel

and the front vent cover.



Remove front vent cover

Locate the CD-ROM drive and look at the rear panel. Check the drive to ensure that the SCSI ID is set to 3 and that termination is disabled (These are the defaults for Apple CD-ROM drives).



CD-ROM drive (rear - typical)

Prepare to install a single “fat” drive rail on the right hand side of the CD-ROM.



CD-ROM rail and hardware

Orient the rail as shown in the photo. Make sure the recesses in the rail are facing outward (so that screws are recessed).



Attach rail to right side

Insert the CD-ROM drive in the topmost 5.25" drive bay.



Insert CD-ROM drive

Prepare two attaching-screw-and-washer sets for the CD-ROM drive



CD-ROM securing hardware

Insert the attaching screws into the slotted holes in the side of the drive bay. DO NOT TIGHTEN.



Insert CD-ROM screws

Attach the CD-ROM bezel



Attach CD-ROM bezel

Adjust the fit of the CD-ROM drive by pushing the rear of the CD-ROM drive toward the front of the Genesis MP Conversion. Test the fit by pressing the CD-ROM eject button on the front of the bezel. You should be able to feel the button on the CD-ROM drive working.



Adjust CD-ROM drive fit

Tighten the CD-ROM drive securing screws to retain the adjustment.



Tighten CD-ROM screws

Working from the rear of the drive, attach the CD-ROM audio cable. Make adjustments to cable routing at this time.



Attach CD-ROM audio cable

Attach the SCSI cable...



Attach CD-ROM SCSI cable

and the drive power cable.



Attach CD-ROM power cable

Installing the Floppy Disk Drive

Prepare to install one “fat” drive rail on the right side of the floppy disk drive.



Floppy drive rail and screws

Install the drive rail as shown.



Install rail on right side

Insert the floppy drive into the smallest drive bay on the front of the Genesis MP Conversion.



Insert floppy drive

Prepare two attaching-screw-and-washer sets for the floppy drive



Floppy drive securing screws

Insert the attaching screws into the slotted holes in the side of the drive bay. DO NOT TIGHTEN.



Insert floppy drive screws

Install the front vent assembly



Attach front vent assembly

Adjust the fit of the floppy drive by pushing the rear of the drive toward the front of the Genesis MP Conversion. You should be able to feel when the adjustment is right. The floppy drive should touch the front vent assembly, yet not push it forward off the front of the machine.



Adjust floppy drive fit

Tighten the floppy drive securing screws to retain the adjustment.



Tighten floppy drive screws

Working from the rear of the drive, install the floppy drive cable.



Attach floppy drive cable

Attach the blank bezel to the front of the Genesis MP Conversion.



Attach blank bezel

Installing the Hard Disk Drive

Make sure that the main internal drive ONLY is set to SCSI ID 0 and has termination enabled. (All other internal drives must have termination disabled and have unique SCSI IDs). The procedure for doing this varies with different drives. A typical drive is shown below. Termination is enabled with a jumper. Older drives require resistor packs for termination.



*Hard drive termination jumper
(may vary from picture)*

If you are unsure of how to configure termination and ID on your drive, consult the drive manufacturer for more information.

Prepare to install two “skinny” drive rails - one on each side of the hard drive.



Hard drive rails

Install the rails as shown. Make sure the recesses in the rails are pointed to the outside of the drive (so that the screws are recessed).



Attach two drive rails

The release tabs should be installed on the “cable” end of the hard drive, and the ridged side of the tabs should be on the outside of the drive as shown below.



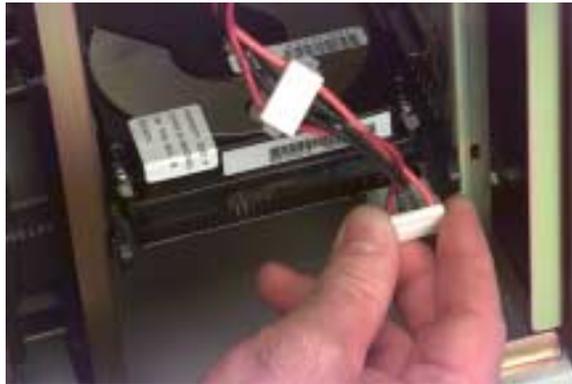
Drive rail release tab

Insert the hard drive in the Genesis MP Conversion. The bottom slot is preferred for the drive at ID 0 (because it is terminated, it should be the last drive in the chain).



Insert hard drive

Install the drive power connector.



Connect drive power cable

Install the SCSI cable.



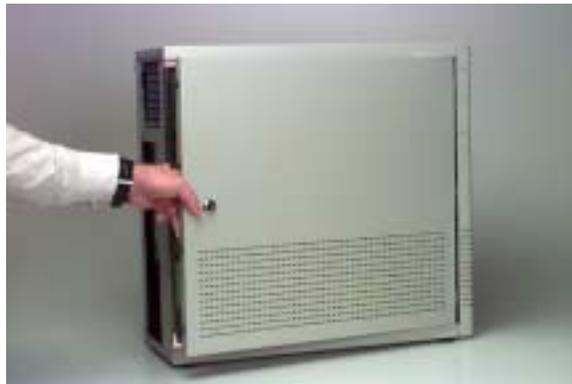
Attach hard drive SCSI cable

Finishing Up

This concludes the Genesis MP Conversion. Before you close the cover, remember to:

- Install any RAM DIMMs (Genesis MP needs at least one DIMM to start up)
- Install any VRAM DIMMs (three-slot models only)
- Install any PCI cards
- Check your work and adjust cable routing where necessary
- Make sure no major assemblies are left over (drives, brackets, processor card). Extra screws and drive rails are O.K.
- Ensure you have not left any tools, cable-tie ends or tape inside

Replace the Genesis MP side cover.



Replace side cover

Perform a “Bong” test

Before moving on to software installation, it’s a good idea to perform a “Bong” test to make sure the machine will power on. Connect AC power to the Genesis MP Conversion, and connect a suitable keyboard. Press the Power On key on the keyboard (consult the **Genesis MP User Guide**). You should hear the fans power up and a startup sound (the “Bong”) from the speaker.

If you hear a bong, power the unit down and proceed to software installation.

If you do not hear a bong, check your work. Make sure you have at least one RAM DIMM installed. Check to make sure the nPOWER card is installed in its slot properly. Reseat the nPOWER card if needed.

If you hear the sound of glass breaking instead of a bong, you probably do not have a working RAM DIMM installed. Install a known-good DIMM and try again.

If you do not hear the fans, ensure that the machine is receiving AC power - that it’s plugged into a live outlet, and that a working keyboard is properly connected.

If you cannot resolve your problem from these instructions, contact DayStar for technical assistance.

Installing Genesis MP System Software

Installing the Mac OS

Genesis MP requires Apple's Mac OS version 7.5.2 or greater for operation. All upgradable Power Macintoshes ship with version 7.5.2 or greater 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 Conversion, 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.

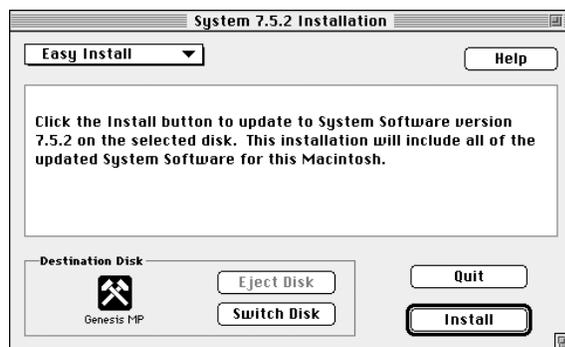
1. Turn off Genesis MP.
2. Insert your Genesis MP Boot Disk into the floppy drive and turn on your Genesis MP. When told that the floppy is locked, click OK.
3. Insert the Apple System Software CD-ROM into the CD-ROM player.
4. Open the Disk First Aid application located in the Utilities folder of the 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 here appears, select Install New System Folder and click OK.

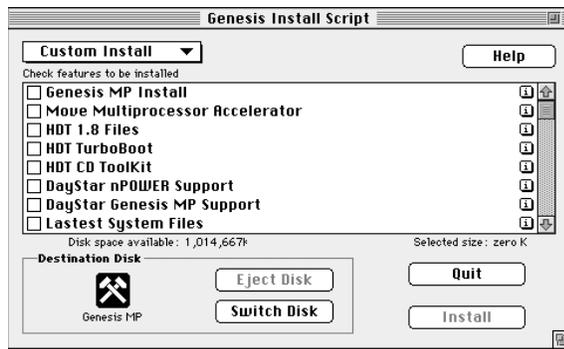
17. Click on the Install or Clean Install button in the main window.
18. Once the installation is completed, you can install any additional Apple System Software from the CD-ROM that you choose to have installed. If you are new to the Mac OS, we suggest that you install the Macintosh Tutorial software.
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 Conversion, 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 Conversion ships with this additional software included on a CD-ROM.

If you wish to install your Genesis MP software onto your 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.

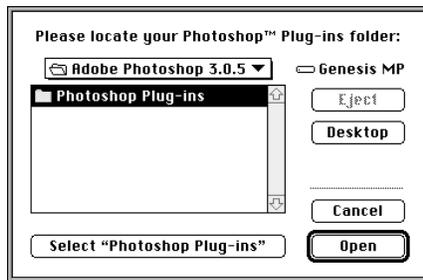
Note: You must install the Mac OS (see previous section) before installing your Genesis MP software.

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.



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 later install these files using the Custom Install feature of the Installer software.



Installing plug-ins

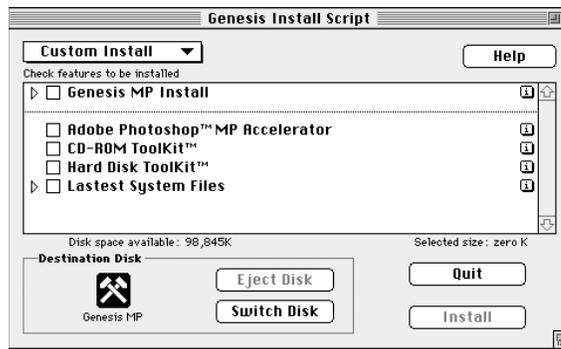
8. Once the installation is completed, restart your machine.

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 a 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.