

DOS on Mac

User's Guide

for DoM/MX 12-inch PCI cards

radius

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PN 42000687, Revision A
May, 1997

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FCC Statement

Caution: Changes or modifications to the DOS on Mac card not expressly approved by Radius Corporation could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorienting the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected
- Consult Radius Corporation or an experienced radio/TV technician for help

Compliance with FCC rules requires that a shielded cable be used to connect to other equipment.

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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Preface

The Radius **DOS on Mac/MX (DoM/MX)** card allows you to use DOS, Windows 3.1x, and Windows 95 applications directly on your Macintosh or compatible computer. Included is a high-performance microprocessor that is compatible with the latest DOS and Windows software.

With the **DoM/MX** card, you can:

- Run the Macintosh operating system (Mac OS) and PC applications simultaneously.
- Switch between the Mac OS and PC environments without quitting the application you are using.
- View the current environment on a single monitor, or view both environments on two monitors simultaneously.
- Use the Macintosh monitor, modem, and printer with PC software, or connect PC-compatible equipment.
- Use the Macintosh keyboard and one-button or multi-button Apple Desktop Bus (ADB)-compatible mouse with PC software.
- Use the same hard disk for both Mac OS and PC software.
- Use a joystick or other game controller with PC applications.
- Support up to 128 MB RAM.
- Support up to 4 MB video EDO DRAM.
- Use the built-in Macintosh serial ports with PC software.
- Copy and paste data between Mac OS and PC documents.
- Play audio from PC CD-ROM discs using an internal CD-ROM drive.
- Communicate with network servers and other computers running PC software.
- Play Sound Blaster-compatible sounds and use sound processing utilities.

About This Manual

This manual describes how to install your **DoM/MX** card and the software that came with the card, connect additional equipment, and work with the Mac OS and PC environments.

To set up your **DoM/MX** card:

- See Chapter 1 to configure your **DoM/MX** card.
- See Chapter 2 to upgrade your **DoM/MX** card.
- See Chapter 3 to install your **DoM/MX** card.
- See Chapter 4 to connect monitors and other devices.
- See Chapter 5 to install the **DoM/MX** card software.
- See Chapters 6 and 7 to set up and work in the PC environment.
- See Chapter 8 to troubleshoot configuration problems.
- See Chapter 9 to configure video software.
- See Chapter 10 to configure audio software.
- See Chapter 11 to install network client software.
- See Appendix A to remove the old DIMM.
- See Appendix B for technical information.

Conventions

The information in this manual follows certain conventions that are adopted to assist you in locating and identifying the information. These conventions are divided into two sections, Keyboard Conventions and Notices:

Keyboard Conventions

These conventions are made up of key combinations and key sequences.

Notation	Meaning
<Key1-Key2>	The sign (-) between Key1 and Key2 means that both keys have to be pressed simultaneously. For example, "Press<Control-Z>" means that the <Control> and <Z>keys have to be pressed at the same time.
<Key1,Key2>	The comma (,) between Key1 and Key2 means that the keys have to be pressed in sequence. For example, "Press <C, Return>" means that you press the <C> key and release it, and then press the <Return> key and release it.
< >	The characters enclosed in this "bracket" represent any of the symbols, letters and key names on the keyboard.
[]	The square bracket is used for indicating the optional parameters.

Notices

Three levels of notices are used in this guide.

Level	Meaning
NOTE	Used to emphasize an area of text.
CAUTION	Used to warn of undesirable procedures or of situations in which equipment damage could potentially result.
IMPORTANT	Used to denote an area of text where the information/instructions must be noted and/or followed.

1

Configure Your DoM/MX Card

CAUTION: Do not attempt to install your **DOS on Mac/MX (DoM/MX)** card, install memory, install a cache module, or connect the cables without first reading this manual in its entirety. Damage to equipment can result.

CAUTION: Be sure to put on the anti-static wrist strap before beginning the following procedures.

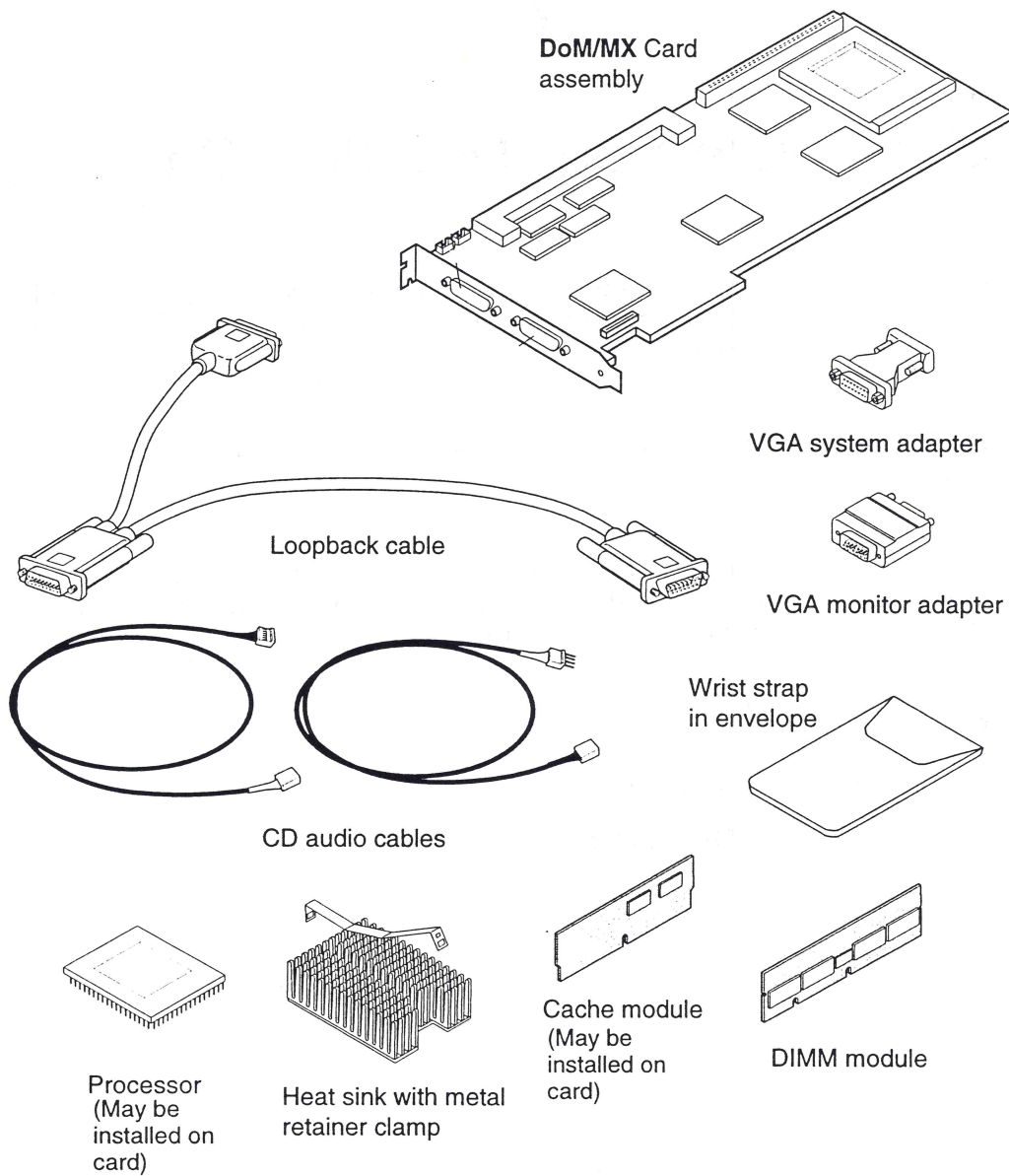
IMPORTANT: *Installation of the DoM/MX card is a complex process.* Unless you are comfortable installing components inside computers, we recommend that you have your DoM/MX card installed by your authorized dealer.

This chapter describes how to:

- Install additional video memory.
- Add memory to your DoM/MX card.

Your Equipment

Make sure you have all the necessary equipment before beginning the installation process:



Install Additional Video Memory

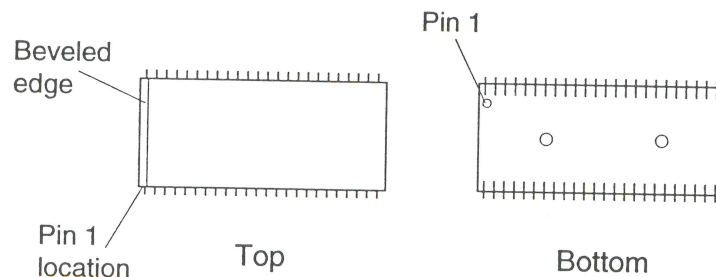
You can install additional video memory on your **Dom/MX** card.

CAUTION: To avoid damage to your computer, we recommend that you have your authorized dealer install additional video RAM. If you attempt to install additional video RAM yourself, any damage you may cause to your equipment will not be covered by the limited warranty on your computer or card. See an authorized dealer or service provider for additional information about this or any other warranty question.

CAUTION: Make sure pin 1 is aligned correctly with the socket; incorrect installation of the video memory modules will damage your **Dom/MX** card.

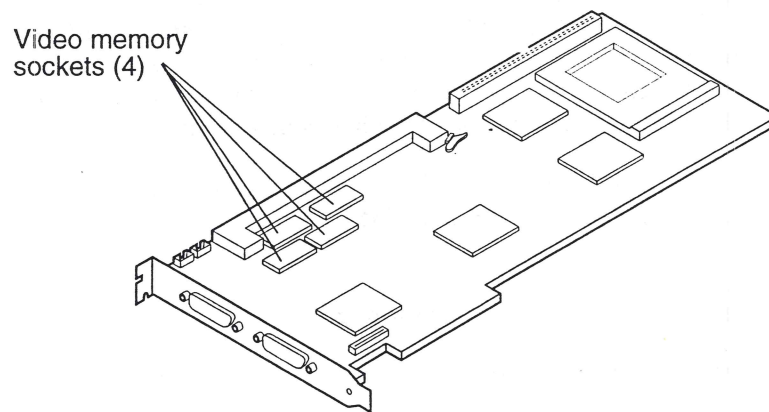
1. Remove the video memory from the static-proof bag.
2. Position the video memory over the socket.

The beveled edge should be on the left side of the socket. The Pin 1 circle on the bottom side of the video memory should be on the left side of the socket.



3. Push the video memory into the socket until it is completely seated.

Repeat the above steps for each of the video memory modules.



Add Memory to Your DoM/MX Card

You must install a DIMM in the DIMM socket. Add-in memory is for the use of your PC exclusively.

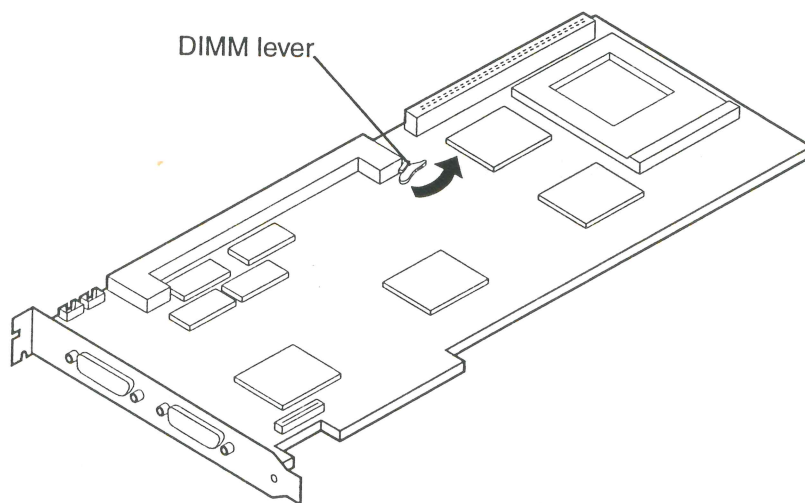
The DIMM socket accepts an 8, 16, 32, 64, or 128 MB DIMM.

Install the New DIMM

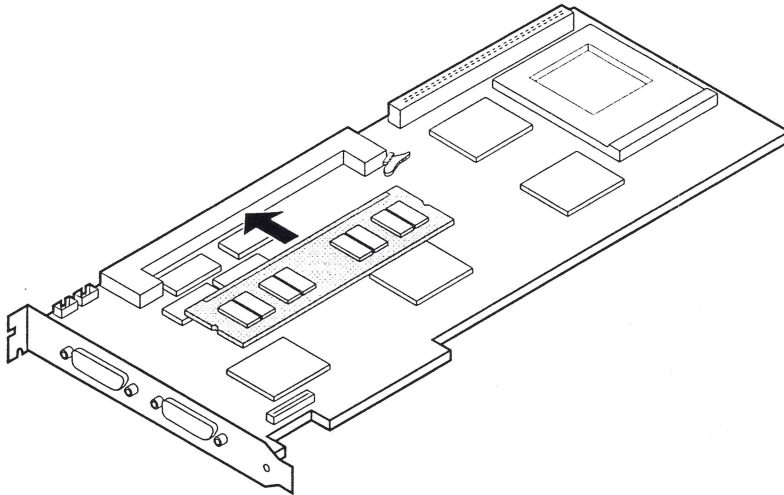
1. Remove the DIMM from its static-proof bag.

Handle the DIMM by its edges to avoid touching the connectors.

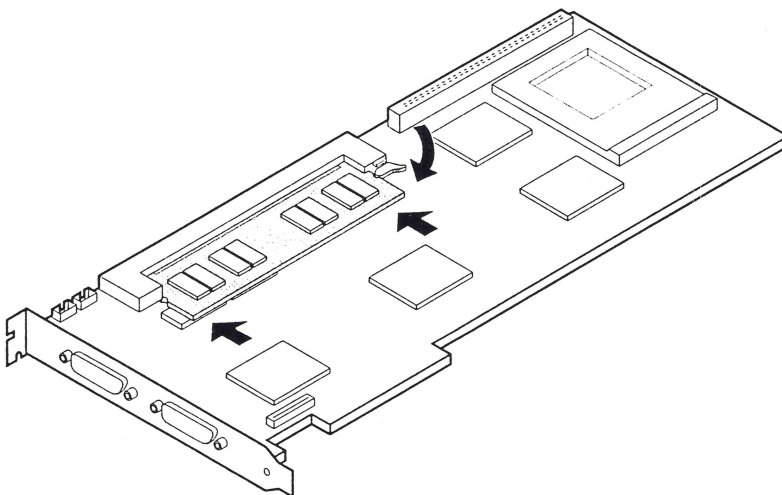
2. Be sure the DIMM lever(s) is in the open position.



3. Push the DIMM into the DIMM slot until the lever(s) snap(s) closed.



4. Be sure the DIMM snaps into place on both ends.



2

Upgrade Your DoM/MX Card

This chapter describes how to upgrade your **DoM/MX** card if it is already installed.

This chapter describes how to:

- Install a cache module.
- Install a **DoM** Parallel/Serial Adapter.
- Install a processor upgrade.

Install a Cache Module on Your DoM/MX Card

You can install a cache module on your DoM/MX card.

You'll perform the following steps to install the cache module on the card:

- Open the computer.
- Remove your DoM/MX card.
- Remove the old cache if one is installed
- Install the cache module.
- Reinstall your DoM/MX card.
- Close the computer.

Open the Computer

1. Turn off your computer.

Be sure the computer is plugged in but turned off.

2. Remove the cover from your computer.

See the manual that came with your computer model for instructions.

Remove Your DoM/MX Card

1. Remove the loopback cable from the port on the back of your DoM/MX card.

2. Touch the metal part of the power supply case inside the computer to discharge any static electricity that might be on your clothes or body.

Be sure to do this before you touch any parts or install any components inside the computer.

3. Locate your DoM/MX card.

4. Disconnect the cables attached to your DoM/MX card.

Be sure to pull the connectors, not the cables.

Remember where the cables were attached so you can reconnect them later.

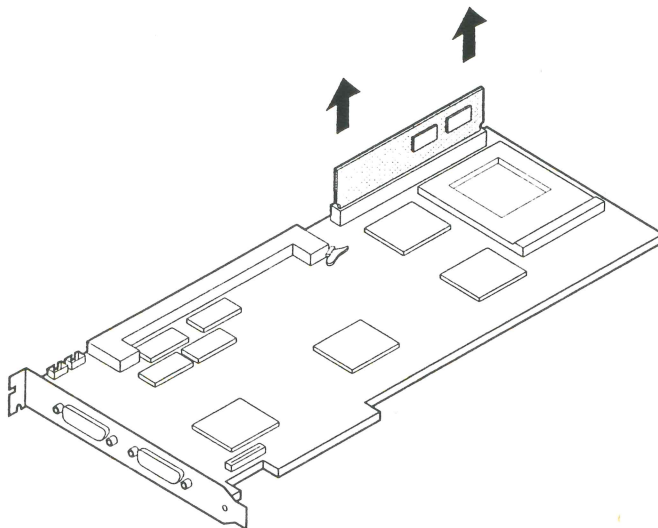
5. Remove your DoM/MX card by firmly lifting it straight up.

Grasp the card by its sides to remove it.

CAUTION: Do not rock the card from side to side as you remove it. Damage to the card or the slot can result.

Remove the Old Cache Module

1. Gently pull up on the old cache module, if one is installed.



Install the Cache Module on Your DoM/MX Card

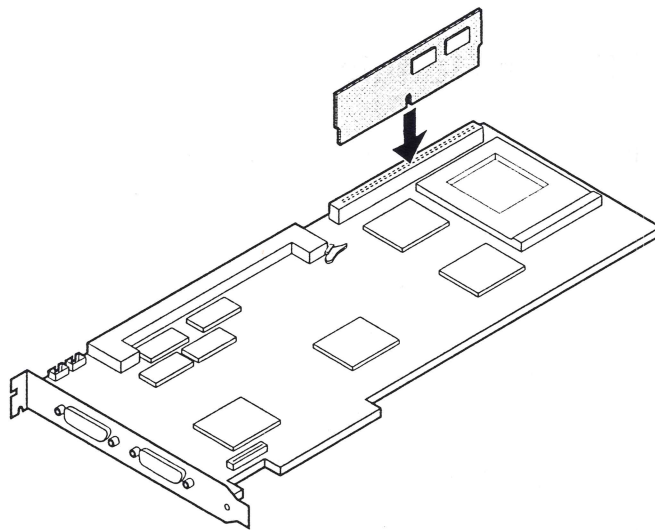
1. Remove the cache module from its static-proof bag.

Handle the cache module by its edges to avoid touching the connectors.

2. Insert the new cache module into the cache socket.

NOTE: The cache module can only be inserted one way.

Use a gentle rocking motion to insert the cache module.



If you have a **DoM** Parallel/Serial Adapter, install it now. Proceed to the section, "Install the **DoM** Parallel/Serial Adapter on Your **DoM/MX** Card."

Reinstall Your DoM/MX Card

See Chapter 3 for detailed instructions on installing your DoM/MX card in your computer model.

1. **Reconnect the cables to your DoM/MX card as they were when you began this process.**
2. **Insert your DoM/MX card into the slot you removed it from.**
3. **Be sure the cables are out of the way so that you can replace the computer cover easily.**

Close the Computer

1. **Be sure all cables and cards are firmly connected.**

If you disconnected a fan previously, reconnect it now.

2. **Reinstall the cover on the computer.**

Installation of your DoM/MX card is complete.

Install a DoM Parallel/Serial Adapter on Your DoM/MX Card

See the *DOS on Mac Parallel/Serial Option Installation & User's Guide* for instructions on installing a DoM Parallel/Serial Adapter on your DoM/MX card.

Install a Processor Upgrade on Your DoM/MX Card

IMPORTANT: You must set the board jumpers for the processor you are using. You can damage your DoM/MX card if settings are incorrect. Please see the Radius web site for details on supported processors. Do not install a processor without checking on support.

You can install a 133 MHz or MMX Pentium processor upgrade on your DoM/MX card.

You'll perform the following steps to install the new processor on the card:

- Open the computer.
- Remove your DoM/MX card.
- Remove the heat sink.
- Remove the old processor
- Install the new processor.
- Reinstall the heat sink.
- Reinstall your DoM/MX card.
- Close the computer.

Open the Computer

1. Turn off your computer.

Be sure the computer is plugged in but turned off.

2. Remove the cover from your computer.

See the manual that came with your computer model for instructions.

Remove Your DoM/MX Card

1. Remove the loopback cable from the port on the back of your DoM/MX card.
2. Touch the metal part of the power supply case inside the computer to discharge any static electricity that might be on your clothes or body.

Be sure to do this before you touch any parts or install any components inside the computer.

3. Locate your DoM/MX card.
4. Disconnect the cables attached to your DoM/MX card.

Be sure to pull the connectors, not the cables.

Remember where the cables were attached so you can reconnect them later.

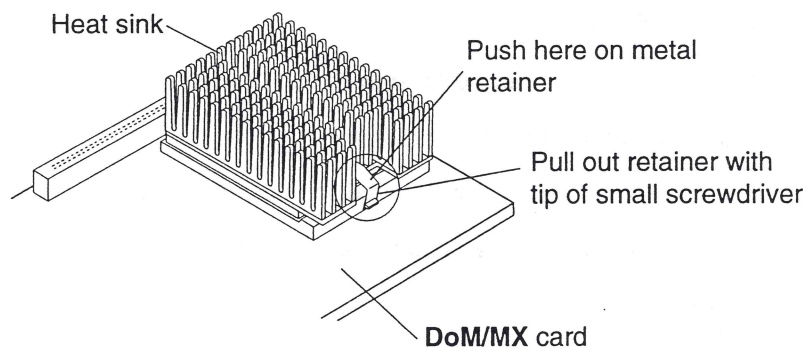
5. Remove your DoM/MX card by firmly lifting it straight up.

Grasp the card by its sides to remove it.

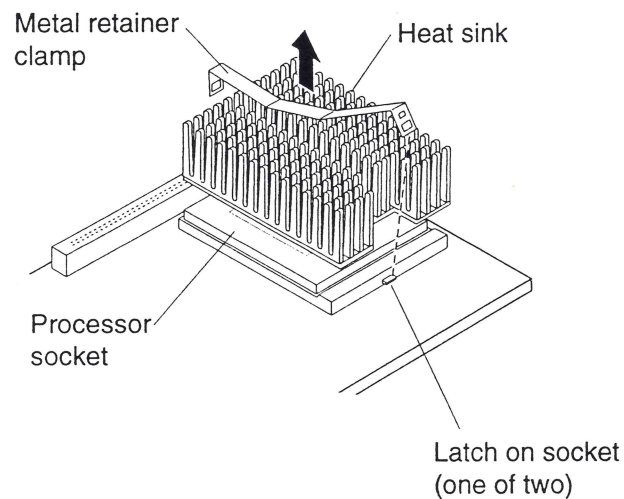
CAUTION: Do not rock the card from side to side as you remove it. Damage to the card or the slot can result.

Remove the Heat Sink

1. Push down on top of the metal retainer clamp, as shown in the illustration.
2. Continue pushing and, using the tip of a small screwdriver, pull out the end of the retainer clamp from the small latch on the processor socket.

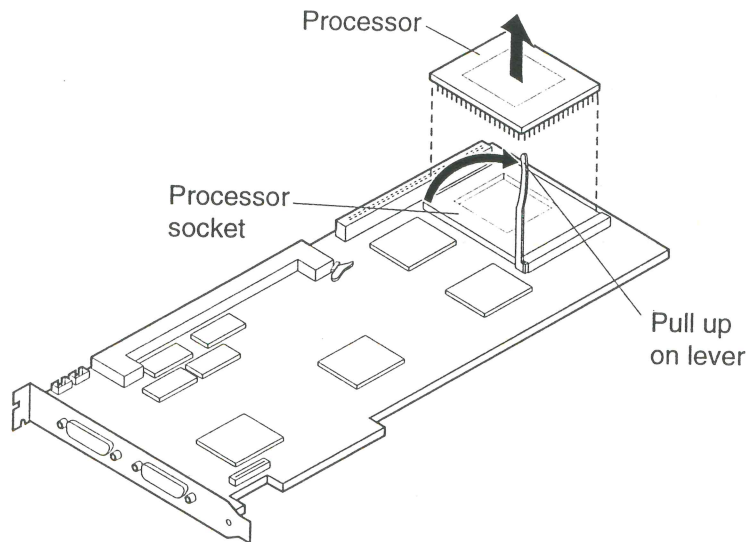


3. Release the retainer clamp from the latch on the opposite side of the processor socket. Remove the retainer clamp and the heat sink and set them aside.



Remove the Old Processor

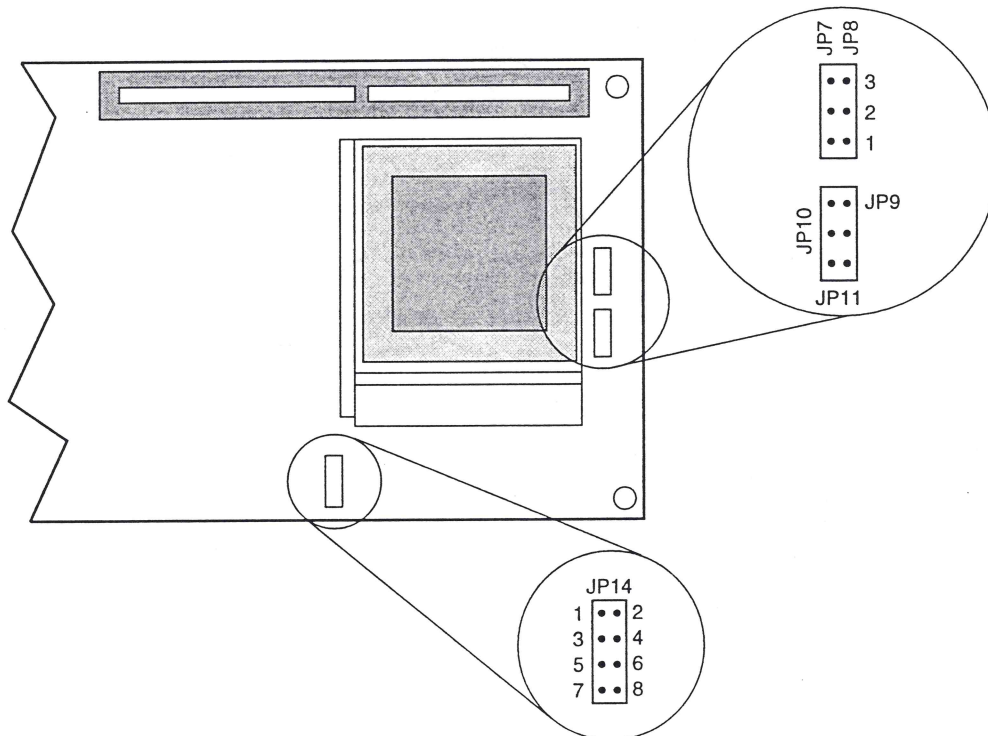
1. Pull up the lever on the side of the processor socket. Raise it to the vertical position.
2. Gently remove the old processor by lifting straight up.



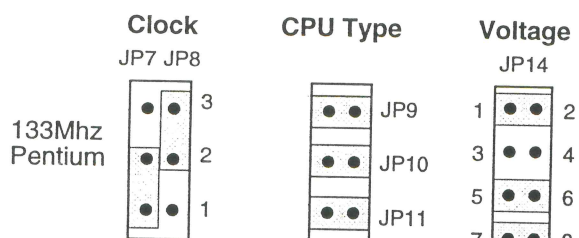
Install the New Processor

CAUTION: Make sure the jumper settings are correct; incorrect jumper settings will damage the processor.

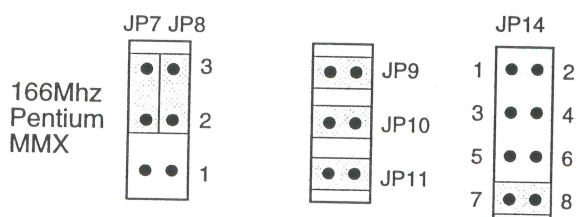
1. Change the jumper settings.



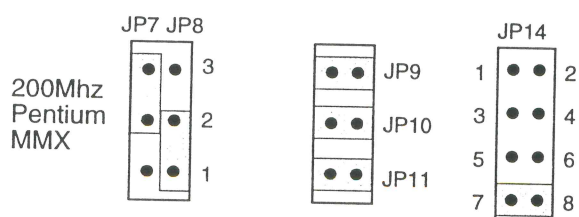
Location of Jumpers on Your DoM/MX Card



Jumper	133Mhz Pentium
JP7	1-2
JP8	2-3
JP9	In
JP10	In
JP11	In
JP14 1-2	In
JP14 3-4	Out
JP14 5-6	In
JP14 7-8	In



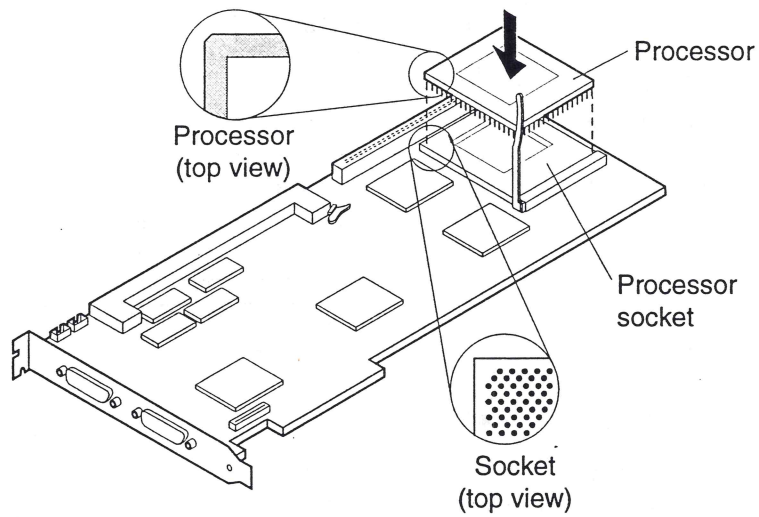
Jumper	166Mhz Pentium MMX
JP7	2-3
JP8	2-3
JP9	In
JP10	In
JP11	In
JP14 1-2	Out
JP14 3-4	Out
JP14 5-6	Out
JP14 7-8	In



Jumper	200Mhz Pentium MMX
JP7	2-3
JP8	1-2
JP9	In
JP10	In
JP11	In
JP14 1-2	Out
JP14 3-4	Out
JP14 5-6	Out
JP14 7-8	In

Jumper Settings

2. Install the new processor by gently placing it onto the processor socket. Orient the processor as shown in the illustration below.

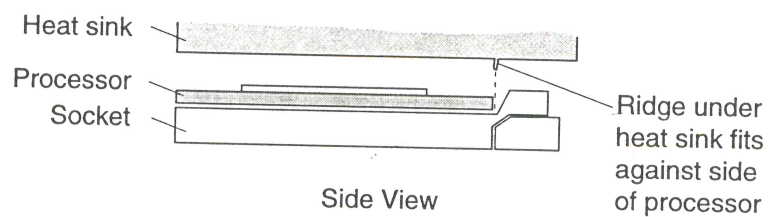
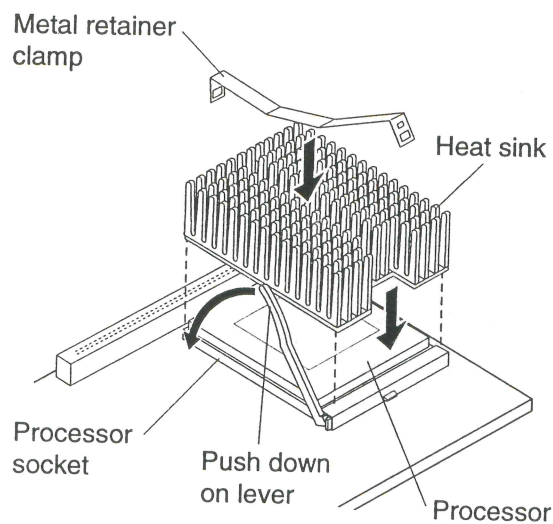


3. When the processor is seated, push down the lever until it snaps into place.

Reinstall the Heat Sink

1. Replace the heat sink on top of the processor.
2. Reinstall the heat sink.

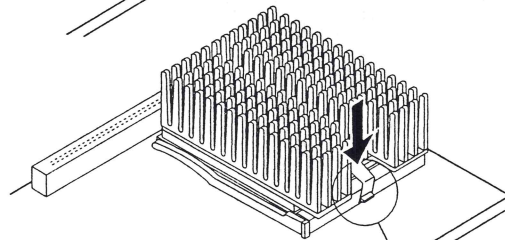
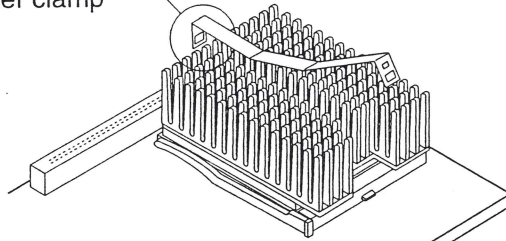
Place the heat sink over the processor so the ridge under the heat sink fits against the side of the processor. See the illustration below.



3. Reinstall the metal retainer clamp.

Hook one end of the retainer clamp under the latch on the processor socket. Apply pressure to the other end of the retainer clamp until it snaps into its latch on the processor socket. See the illustration below.

Hook this end of
retainer clamp
first



Apply pressure to
the other end until it
snaps into place

Reinstall Your DoM/MX Card

See Chapter 3 for detailed instructions on installing your DoM/MX card in your computer model.

1. **Reconnect the cables to your DoM/MX card as they were when you began this process.**
2. **Insert your DoM/MX card into the slot you removed it from.**
3. **Be sure the cables are out of the way so that you can replace the computer cover easily.**

Close the Computer

1. **Be sure all cables and cards are firmly connected.**

If you disconnected a fan previously, reconnect it now.

2. **Reinstall the cover on the computer.**

Installation of your DoM/MX card is complete.

3

Install Your DoM/MX Card

This chapter describes how to install your DoM/MX card hardware in your computer.

This chapter describes how to:

- Install your DoM/MX card.
- Connect the CD audio cables to your DoM/MX card and the logic board.

IMPORTANT: *Installation of the DoM/MX card is a complex process.* Unless you are comfortable installing components inside computers, we recommend that you have your DoM/MX card installed by your authorized dealer.

Install Your DoM/MX Card

- 1. Turn off your computer.**

Be sure the computer is plugged in but turned off.

- 2. Remove the computer cover.**

Refer to the manual that came with your computer model for instructions.

- 3. Put on the anti-static wrist strap.**

Be sure to do this before you touch any parts, or install components, inside your computer.

See the instructions on the envelope that contains the wrist strap.

- 4. If necessary to gain access to the card slot, disconnect the fan cable, if there is an auxiliary fan.**

Some models do not have a fan.

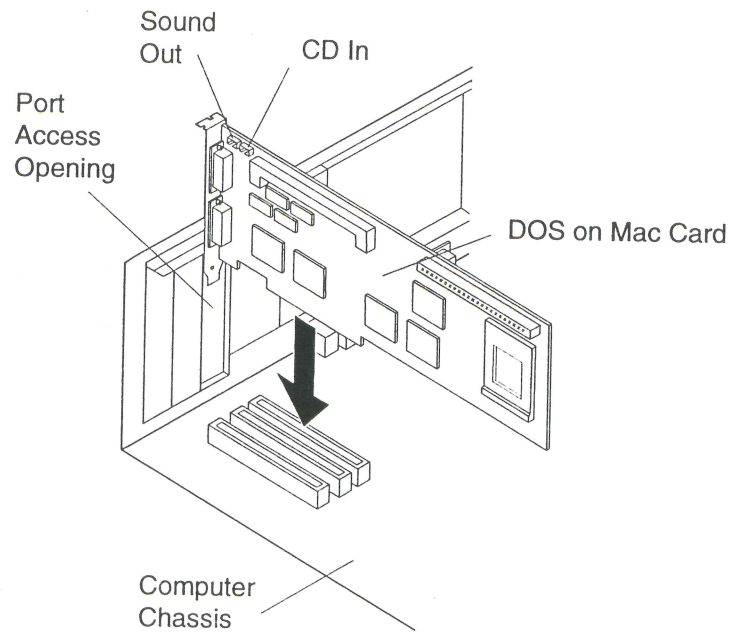
- 5. Pull out a access port cover behind an expansion slot.**

IMPORTANT: The heat sink used on your processor extends into the adjacent slot location. The adjacent slot can only be used for a short PCI card.

If you need to add RAM or a cache module to your DoM/MX card, do so at this time. See Chapter 1, "Configure Your DoM/MX Card" for instructions on adding RAM. See Chapter 2, "Upgrade Your DoM/MX Card" for instructions on installing a cache module.

6. Insert the card edge connector on the bottom edge of your DoM/MX card into the slot behind the access port cover that you removed.

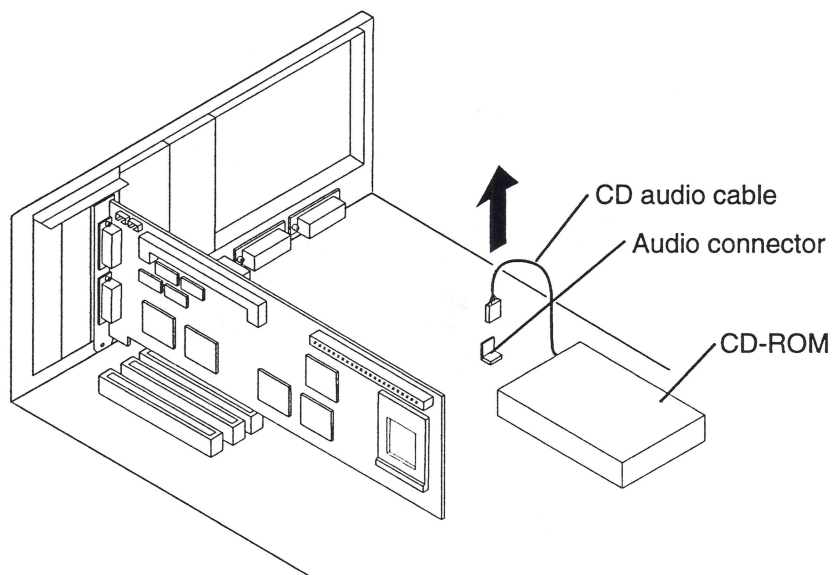
Line up the connector with the slot. The ports on your DoM/MX card should face the port access opening on the back panel of your computer. Your DoM/MX card should line up with the card guides at the front or back of your computer. Press down firmly on the card until the connector is fully seated. Do not force the card—if you meet much resistance, pull the card out and try again.



Connect the CD Audio Cables to Your DoM/MX Card and the Logic Board

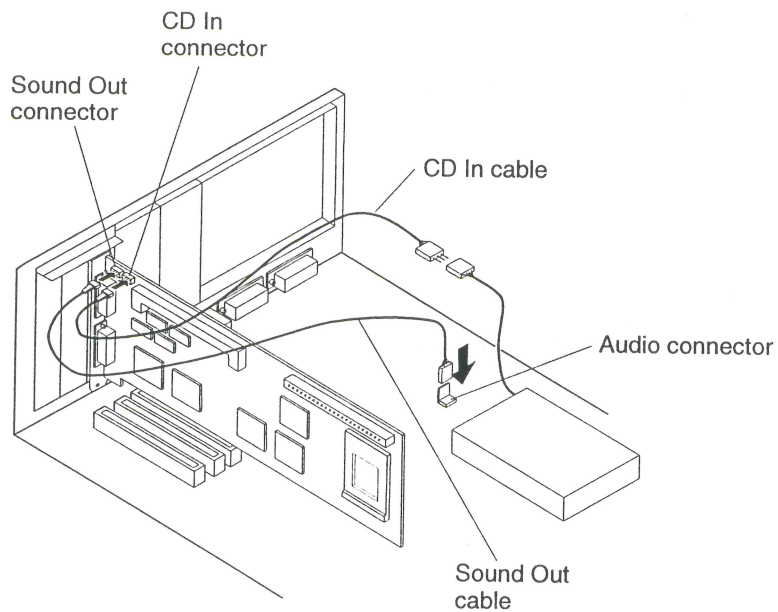
1. Disconnect the CD-ROM audio cable from the logic board (at the logic board connector only). Leave the cable attached to the CD-ROM.

CAUTION: Be sure to pull the plug, not the cable.



NOTE: You may need to consult your computer manual to locate the CD-ROM connector on the logic board.

2. Connect the “Sound out” audio cable that came with your DoM/MX card between the DOS card connector marked “Sound Out” and the logic board (from where you just removed the CD-ROM cable). Connect the “CD in” audio cable between the DOS card connector marked “CD In” and the CD-ROM audio cable.



Close the Computer

- 1. Remove the anti-static wrist strap.**
- 2. Close the chassis of your computer.**

Be sure that the cables you connected are away from the heat sink and are not pinched.

- 3. Reconnect the auxiliary fan cable, if necessary.**

Your computer model may not have an auxiliary fan.

- 4. Close the computer cover.**

Be sure all cables and cards are firmly connected.

Installation of your **DoM/MX** card is complete.

4

Connect Monitors and Other Devices

You can display both the Mac OS and PC environments on a single monitor, or you can display both environments on two monitors simultaneously.

NOTE: Your DoM/MX card supports only multi-frequency or VGA monitors.

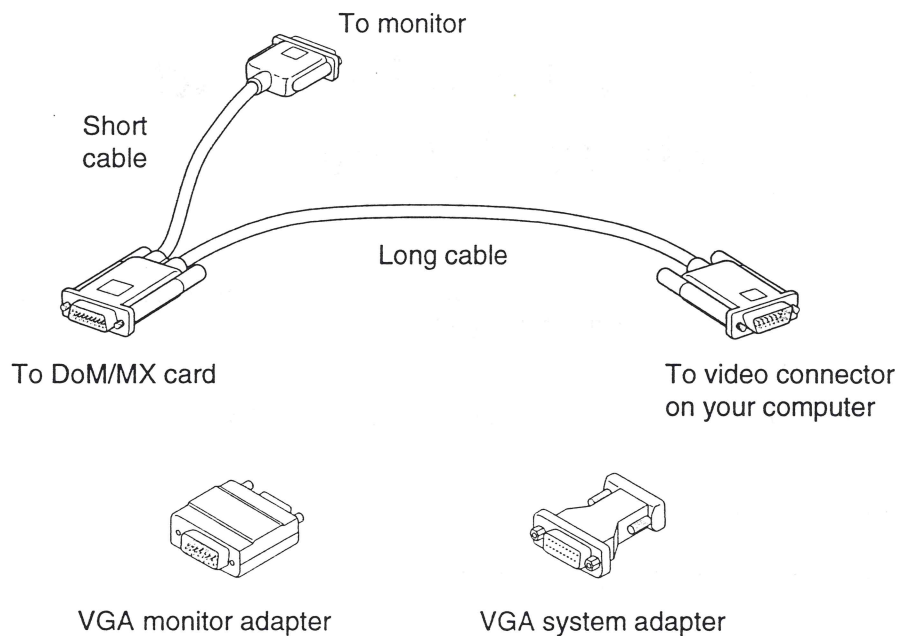
This chapter describes how to:

- Connect a single monitor to your computer.
- Connect two monitors.
- Connect a MIDI device.
- Connect a PC joystick.
- Connect a printer.

Connect a Single Monitor to Your Computer

A VGA monitor adapter and a VGA system adapter are provided for Macintosh compatibles.

Use the loopback cable that came with your DoM/MX card to connect a monitor.



1. Insert the middle connector into the bottom port on your DoM/MX card, and tighten the thumbscrews.

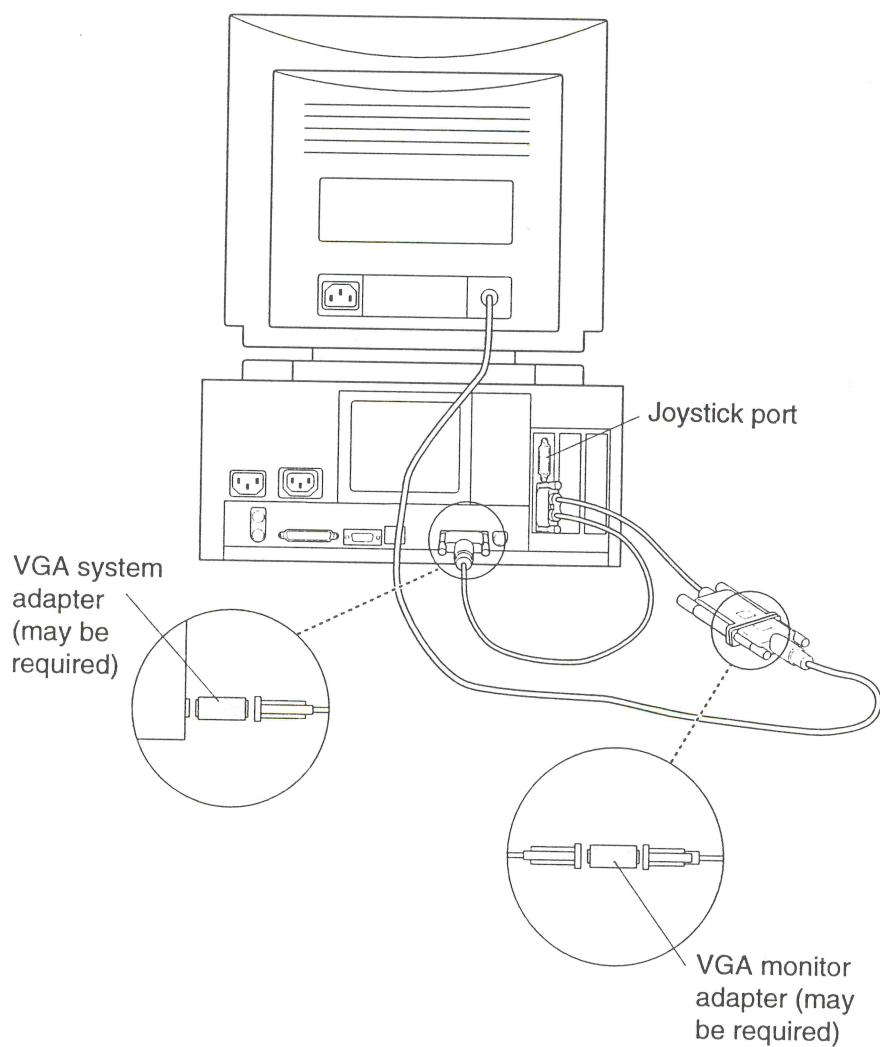
CAUTION: Do not insert a monitor cable into the joystick port. Do not insert a joystick cable into a monitor port. Serious damage to your equipment can result.

2. Insert the connector on the long end of the loopback cable into the built-in monitor port of your computer or the video card, if installed.

Use the VGA system adapter if necessary.

3. Insert the connector on the short end of the loopback cable into your monitor cable.

Use the VGA monitor adapter if necessary.



Connect Two Monitors

When you connect two monitors, you'll see the Mac OS environment on one and the PC environment on the other. With the proper cable adapters, you can use any combination of multi-frequency Macintosh and/or PC-compatible monitors.

Refer to your monitor manual and the chart on the back of the monitor adapter for switch settings. If you are unsure of the monitor's resolution, set the switch setting to VGA.

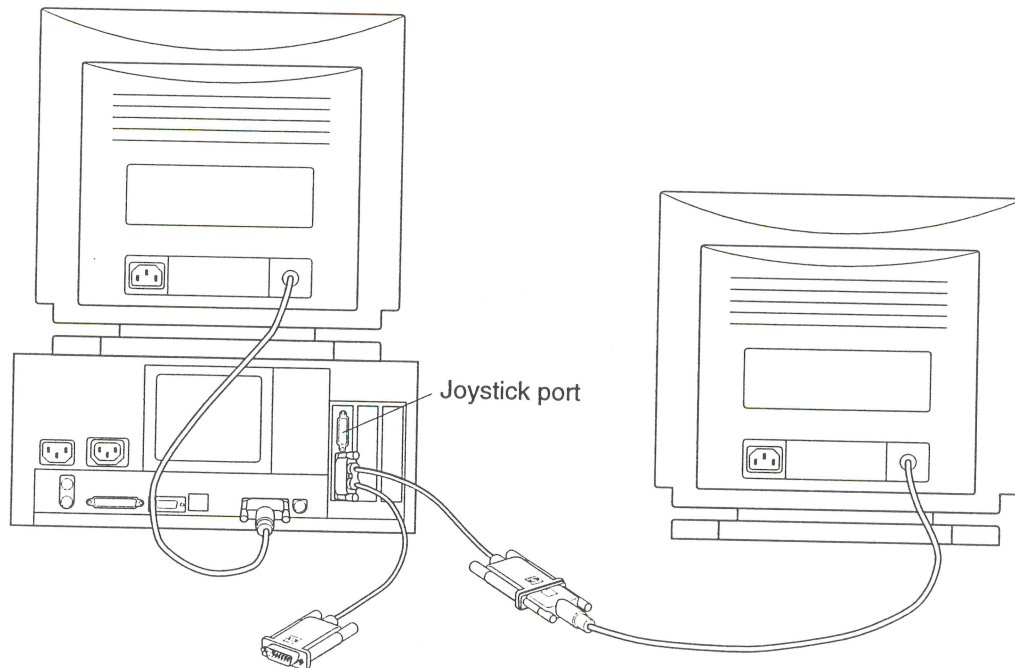
- 1. Connect the monitor you want to use for the Mac OS environment to the monitor port or video port on the back panel of your computer.**

If your computer has a VGA output, you must install the system adapter.

CAUTION: Do not insert a monitor cable into the joystick port. (The joystick port connection has two rows of pins.) Do not insert a joystick cable into a monitor port. Serious damage to your equipment can result.

- 2. Insert the middle connector of the loopback cable into the port on your DoM/MX card and tighten the thumbscrews.**

3. Insert the connector on the short end of the cable into the cable for the monitor that you want to use with the PC environment.



If your computer has an additional video card or monitor port, you can insert the long connector into it. This allows you to switch the monitor between the Mac OS environment and the PC environment. Typically, you'll leave the long connector on the loopback cable unplugged.

Connect a MIDI Device

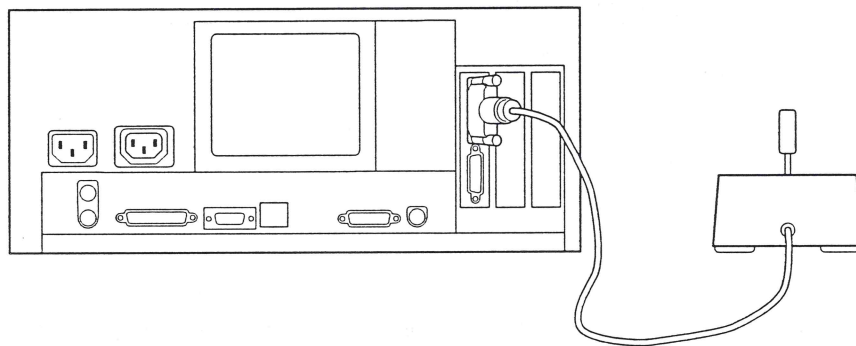
You can connect a MIDI (musical instrument digital interface) device to your computer. You'll need a Sound Blaster-compatible MIDI-to-joystick adapter to connect a MIDI device to the joystick port that comes with your DoM/MX card. See your computer dealer for more information.

Connect a PC Joystick

1. Remove the plastic cover on the joystick port.

See the manual that came with your computer for the location.

2. Plug your joystick into the port.



CAUTION: Do not insert a monitor cable into the joystick port. Do not insert a joystick cable into a monitor port. Serious damage to your equipment can result.

Connect a Printer

You can print from the PC environment to any printer connected to your computer.

Also, you can purchase a package such as GDT's PowerPrint that lets you attach your PC-compatible printer to your Macintosh.

See the section "Set Printer Options" in Chapter 6 for more information.

5

Install the DoM/MX Card Software

This chapter describes how to:

- Install the **DoM/MX** card software.
- Use the **DoM/MX** application.
- Configure the PC serial port.
- Configure the PC drives.
- Manage PC files from the Mac OS.
- Initialize a drive container.
- Choose shared folders or volumes.
- Switch between environments.
- Turn the PC on and off.
- Start the PC automatically.
- Fade the screen.
- Set printing preferences in the **DOS on Mac** application.
- Serial set up button
- Use PC peripherals.

See the Formation CD installation manual for CD support.

For information on the set up and use of the software once you have installed it, see Chapter 6, "Set Up the PC Environment," and Chapter 7, "Work in the PC Environment."

Install the DoM/MX Card Software

Follow these steps to installing your DoM/MX card software:

1. Insert the *DOS On Mac for Mac™ OS Environment* diskette.

The "DOM_Install" window is displayed.

2. Double-click on the "Installer" icon.

3. "Easy Install" is the default

NOTE: If you do not wish to install all the DoM components, choose "Custom."

4. Click on the "Install" button.

The following message may be displayed:

Installation on the active startup disk "untitled" cannot take place while other applications are running. Click Continue to automatically quit all other running applications. Click Cancel to leave your disk untouched. Click the "Continue" button.

5. Click the "Continue" button.

The following message is displayed:

Installation was successful. You must now restart your Macintosh to use your new software.

6. Click on the "Restart" button.

Installation of the Mac OS environment software is complete.

Use the DoM/MX Application

You use the DoM/MX application to do the following:

- Configure the PC drives.
- Choose folders to be shared between the host and the DOS environments.
- Set a key command for switching between the host and the PC environments.
- Determine which environment —MAC OS or DOS—appears when you turn on your computer.
- On single-monitor systems, determine whether the display fades before switching environments.
- Set printing preferences.
- Choose to auto-start the PC at boot time.
- Add a serial port to share with the PC.
- Select the network adapter to share with the PC.

You also use the DoM/MX application to switch environments immediately and to start, restart, or shut down the PC.

Configure the PC Serial Port

You can configure the COM1 serial port. Follow these steps:

1. Select “Serial” in the DOM application.

A dialog box offering the following choices appears:

- Modem Port—Causes COM1 to use the modem port.
- Printer Port—Causes COM1 to use the printer port.

NOTE: A serial port cannot be used simultaneously by the Macintosh and the PC.

NOTE: The maximum baud rate setting for your PC is 19.2K.

Configure the PC Drives

1. Open the hard disk from the desktop.
2. Open the “DOM” folder (created by the installer).
3. Double-click the “DOM” icon to open the DOS on Mac Control Panel.

You can move the DOM application to any location you choose.

4. Choose New Drive File from the “C-drive” pop-up menu.

A dialog box appears.

5. Choose a location for the drive container.

The drive container can be on any hard disk attached to the computer. Make sure your hard drive has sufficient free space for your operating system and application.

6. Type a name for the drive container.

You can type up to 31 characters. Pick a descriptive name such as PC Drive or PC Container so that you can easily identify it.

When you finish, press the Tab key or click the mouse on the “Size” field to move to the “Size” field.

7. Type a size (in MB) for the drive container.

The exact amount of space you need depends on what application programs you intend to install for DOS and Windows. Check the documentation that came with the programs to see how much space you’ll need, then allow some extra room for growth.

Note: It is advisable to leave a minimum of 10 MB of free space on your hard disk. Once drive containers are created, they cannot be resized.

8. “Initialize” is selected by default to automatically initialize the drive container with a single partition.

Before you can use a drive container, you must initialize it. If PC Exchange 2.0 (or above) is installed in your system, you can select Initialize Drive File in the dialog box that appears when you create the container. Doing so configures the new file as a single partition, ready for use the next time you restart the PC.

If you don't have PC Exchange 2.0 (or above) installed, you can initialize the container in DOS using the FORMAT program.

For information on setting up other drives, see “Choose Shared Folders or Volumes” in this manual.

9. Click “Create.”

To change the drive container for drive C or D, choose Other Drive File from the “C-” or “D-” pop-up menu, then locate the new drive container in the dialog box.

The change takes effect the next time you restart the PC. To have the change take place immediately, click the “Restart” button in the DOM application.

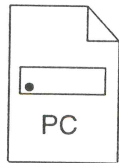
10. See Chapter 6, “Set Up the PC Environment” for instructions on setting up your PC environment.

Manage PC Files from the Mac OS

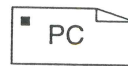
You can gain access to files in a drive container even if you're in the Mac OS. Follow these steps:

1. Double-click the drive container in the Finder.

The drive container appears as a disk icon on the Mac OS desktop.



My PC files (container)



My PC files (disk)

2. Double-click the container's disk icon.

The icon opens and you have access to the files inside it.

You can now manipulate these files as you would any Mac OS files.

Drive container is read-only if it is currently in use by the PC. If the PC is running, you won't be able to add anything to the drive container from the Mac OS. To do so, shut down the PC from the DOM application and perform steps 1 and 2, above.

3. PC drive containers support the “drag-and-drop” capabilities of the Mac OS. You can add files to a closed container by simply releasing them over the container icon.

Initialize a Drive Container

Before you can use a drive container, you must initialize it. If PC Exchange is installed in your system, you can select "Initialize" in the dialog box that appears when you create the container. Doing so configures the new file as a single partition, ready for use the next time you restart the PC.

If you do not have PC Exchange installed, you can initialize the container in DOS using the FORMAT program.

For information on setting up other drives, see the next section, "Choose Shared Folders or Volumes."

Choose Shared Folders or Volumes

IMPORTANT: For the sharing functions to work properly, the PC side (DOS or Windows) must be running on the **DoM/MX** card, DOMSHARE.EXE should be loaded as part of the AUTOEXEC.BAT file, and a LASTDRIVE=z statement should appear in the CONFIG.SYS file. AUTOEXEC.BAT and CONFIG.SYS are installed automatically with these statements after the DOM Environment disk is set up. See Chapter 6, "Set Up the PC Environment" for more information.

You can set up a Mac OS folder, hard disk, shared disk, or CD-ROM disc on a network to act as a PC drive.

Sharing a volume on your Macintosh hard drive is a convenient way to transfer files between the Mac OS and the PC environment, especially if you are dealing with many files, or large files, which may not all fit onto one floppy disk.

You can share entire disks, or volumes. This is especially useful for network volumes, CD-ROM drives, or other volumes that otherwise would not be readily available to the PC environment.

- Choose an available drive letter from the "Sharing" pop-up menu in the DOM Control Panel.

A dialog box appears, letting you select a folder or disk (volume) for the drive.

See the documentation that came with Macintosh PC Exchange for more information on transferring files between the DOS environment and the Mac OS using floppy disks and other media.

NOTE: You must first have the PC running before you can access the “Sharing” menu.

Switch Between Environments

You can set a keyboard command, or *hot key*, to switch between the Mac OS and the PC environment.

- To choose a hot key, open the DOM application and use the mouse to select the “Switching” text field; then type the key you want to use.

The \mathcal{H} key is automatically included. You can use any alphanumeric or special key.

< \mathcal{H} -return> always switches from the PC to the Mac OS, regardless of the control panel setting. You can also switch to the PC environment by clicking “Switch to PC” in the DOM application.

Turn the PC On and Off

You use the buttons near the bottom of the DOM application to switch environments, restart the PC, or shut the PC off.

- Switch to PC—switches to the PC environment starting the PC if it is turned off.
- Start/Restart PC—starts the PC if it is off, or restarts it if it is running.
- Shut down PC—turns off the PC.

Start the PC Automatically

To have the PC start automatically when you turn on your computer, click the checkbox next to Auto-Start PC. To make the PC environment appear when you turn on your computer, click the checkbox next to “Switch to PC at Startup.”

Fade the Screen

To have the screen fade briefly on single-monitor systems before switching environments, click the checkbox next to “Fade Video On Switch.”

Set Printing Preferences in the DOM Application

You can set preferences for the DOM Print Spooler to control a variety of print functions.

1. In the “Printer” field, click “Preferences.”

2. Choose your settings as appropriate.

In the “General” section of the “Preferences” window, there are three components:

- *Show printer window when printing*—default is “No.”
- *When a printing error needs to be reported*—default is “Also display icon in applications menu.”
- *Notify when shutdown attempted when printing*—default is “Save and print file on startup.”

3. Click OK.

66 lines maximum for Epson: Page sizes greater than 66 lines (standard letter size paper) are not supported by the Epson driver. Legal and other larger sizes will be cut off after either 60 or 66 lines, depending on the setting you’ve chosen. If you find that your printing is clipped at either the top or bottom of the page, click the No Gaps option.

Use PC Peripherals

Because of the RS-422 implementation of the Macintosh, the following RS-232 signals are not available to the PC:

- Carrier Detect (CD)
- Data Set Ready (DSR)
- Request to Send (RTS)
- Ring Indicator (RI).

Applications or serial devices requiring these signals won’t work.

While the DoM/MX card does not support Carrier Detect (CD), you can set most communications applications to respond to the CARRIER string sent back by most modems.

For more information about accessing serial ports from DOS, see the documentation that came with your DOS software.

IMPORTANT: The following chart lists the various signals present on the Macintosh Mini DIN-8 connector, and on what pins these signals are present on PC-style DB-9 and DB-25 connectors. This information may be of use if you are planning to have a custom cable built. Refer to the manual for the serial device that you plan to attach to the Macintosh for the recommended serial connection, and use the chart below to find out what the proper Macintosh wiring should be.

Macintosh Signal	Macintosh Mini DIN-8	DB-9	DB-25	RS232 Name
HSK0	1	4	20	DTR
HSK1	2	8	5, 8	CTS, DCD
TXD-	3	3	2	TXD
GND	4	5	7	GND
RXDA-	5	2	3	RXD
TXDA-	6	N/C	N/C	
GP1	7	N/C	N/C	
RXD+	8	5	7	GND

6

Set Up the PC Environment

This chapter describes how to:

- Operate in the PC environment.
- Set up the PC environment.
- Use memory management utilities.
- Set printer options.
- Build a custom cable.

Operate in the PC Environment

When you switch to DOS or Windows, you're operating in a real PC world. The floppy disk drive, mouse, and keyboard all act as they would with a standard PC. There are, however, some mapping issues you need to be aware of.

Floppy Disk Drives and Disks

The floppy disk drive is drive "a." To eject a disk from this disk drive while you're in the PC environment, press $\text{⌘} - \text{e}$.

If you insert a Mac OS-format floppy disk in the PC environment, the PC indicates it cannot read drive "a:." (Mac OS diskettes cannot be read by the PC.)

You can access a write-enabled floppy disk only in the environment that was in the foreground when the floppy disk was inserted.

When you insert a write-disabled PC disk, both environments have access to it.

Blank disks are formatted as DOS disks in the PC environment. In the Mac OS, you can format disks as DOS or Mac OS (among other choices).

CD-ROM Discs

You can use DOS and Windows CD-ROM discs in Apple CD-ROM drives.

To eject a CD-ROM disc in the PC environment, press $\text{⌘} - \text{y}$.

Pointing Device (Mouse)

The standard Apple-compatible pointing device (mouse) has one button; most PC devices have two.

The button on the Apple-compatible pointing device behaves like the left button on a PC device. To simulate the right button, press the “=” key on the keypad or press command-mouse button. If you have Windows installed, you can use its Mouse Control Panel to switch the button assignment.
















NOTE: The DOS installation disks do not include a DOS mouse driver. A mouse driver for Windows is automatically installed, however, if you install Microsoft Windows. Mouse drivers for DOS are widely available from third-party sources.

NOTE: Multi-button Macintosh pointing devices map as appropriate to the PC’s left and right mouse buttons.

Keyboard

The DoM card supports most Apple-compatible keyboards.

With the Apple Keyboard II, use the following equivalents for keys on a PC keyboard. These equivalents also apply to the Apple Adjustable Keyboard if the function key keyboard isn't plugged in. The Apple Extended Keyboard can be used normally.

Macintosh Keyboard	Equivalent PC Key
 -1	F1
 -2	F2
 -3	F3
 -4	F4
 -5	F5
 -6	F6
 -7	F7
 -8	F8
 -9	F9
 -0	F10
 - -	F11
 - =	F12
 - [F13 (Print Screen)
 -]	F14 (Scroll Lock)
 - \	F15 (Pause)

Macintosh Keyboard	Equivalent PC Key
⌘-[keypad]7	Home
⌘-[keypad]9	PageUp
⌘-[keypad]1	End
⌘-[keypad]3	PageDown
⌘-[keypad]0	Insert
⌘-[keypad](period)	Del

Using the Apple Adjustable keyboard: If you are using the Apple Adjustable keyboard, you cannot use key combinations made up of keys from the main keyboard and function keys (for example, Shift-F1). This means you cannot restart the DoM card using the Control, Alt, and ⌘-[keypad] period key combination. Click "Restart PC" in the DoM Setup Control Panel instead.

Clipboard

You can exchange Clipboard information between the PC and the Macintosh. You can exchange when you're running Windows. Clipboard support is provided for Windows 3.1x and Windows 95.

Windows Clipboard

You can exchange text, PICT, RTF, and bitmap files between Macintosh and Windows using the Copy and Paste commands from the Edit menu.

Set Up the PC Environment

Make sure you have installed the operating system of your choice before proceeding.

Install Under DOS

You must create a drive container mounted as drive "c:."

Perform the following steps to set up the PC environment:

1. Insert the *DOS on Mac for PC Environment* diskette into drive "a:."
2. At the DOS prompt, type:

a:

3. At the "a:\>" prompt, type:

DOS_INST

4. Follow the prompts as they are displayed.

5. If you need networking support under DOS, at the "a:\>" prompt, type:

DOM_NET

6. Eject the diskette.

7. Reboot the PC.

Installation is complete.

Install Under Windows

If you are running Windows 3.1x or Windows 95, perform the following steps:

1. Start Windows.
2. Insert the *DOS on Mac for PC Environment* diskette into drive "a:."
3. Select "Run."
4. Select "a:" drive.
5. Double click "SETUP.EXE."
6. Click OK.

Follow the prompts as they are displayed. Note that installing networking is not the default. Click "Yes" to install networking. See Chapter 11, "Install Network Client Software" to configure networking.

7. Eject the diskette.

Installation is complete.

Using Memory Management Utilities

If you use a memory management utility such as EMM386, you need to configure it to be compatible with your DoM/MX card.

If you want to use EMM386.exe (included as part of DOS), set CONFIG.SYS to the following:

(Windows string) `DEVICE=C:\WINDOWS\EMM386.EXE RAM FRAME=DC00`

(DOS string) `DEVICE=C:\DOS\EMM386.EXE RAM FRAME=DC00`

DOMShare

"DOMShare" is a PC application program that lets the PC view Mac OS folders and volumes as drive letters. You can have as many shared drives as there are drive letters.

NOTE: See "Choose Shared Folders or Volumes" in Chapter 5.

Set Printer Options

You can print with most printers connected to your computer from the PC environment by using the DOM Print Spooler software.

Build a Custom Cable

The signals present on the Macintosh Mini DIN-8 connector, and the pins that carry these signals on PC-style DB-9 and DB-25 connectors are listed in the following table. You may be able to use this information to build a custom cable to connect your PC-compatible serial device to a Macintosh serial port. For the recommended serial connection, see the manual for the serial port device you want to connect.

NOTE: See the table in the section “Use PC Peripherals” in Chapter 5.

7

Work In the PC Environment

This chapter describes how to:

- Use PC files in the Mac OS.
- Install your own PC software.
- Install Windows 3.1x.
- Install Windows 95.

Use PC Files in the Mac OS

There are two ways to access PC files in the Mac OS:

- Access PC files on a floppy disk.
- Access PC files in a PC drive container or a PC-formatted SCSI hard drive attached to your computer.

With Macintosh PC Exchange, you can see, move, and copy PC documents as icons in the Mac OS, but you may not be able to open every kind of PC file in the Mac OS.

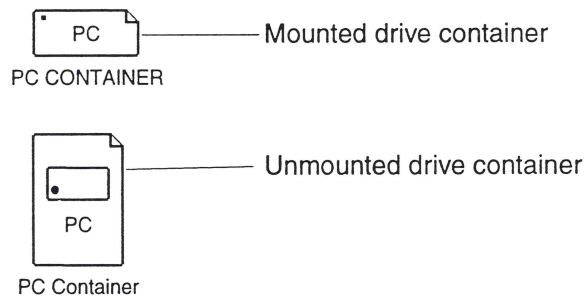
If you cannot open a file or if the file does not display properly, try the following.

- Open the file by using a different application.
- If your PC program has an Export feature, use it to save the document in a different file format.
- Use a PC–Mac OS translation utility.

Follow these steps to access files in a PC container with the Mac OS:

1. In the Finder, double-click the drive container to open it.

The drive container appears on the Mac OS desktop as either one of the following disk icons:



2. Double-click the container's disk icon.

The icon opens and you have access to the files inside it.

NOTE: If the PC is running, you can copy files from the drive container to other locations in the Mac OS. You cannot add anything to the drive container or change any files in it. To add or change files, first shut down the PC by using the PC Setup Control Panel.

Install Your Own PC Software

Now you can install your own PC programs in the drive container. Follow the instructions that came with the programs.

You may need to eject disks during installation. To eject a floppy disk, press <⌘+e>. To eject a CD-ROM disc, press <⌘+y>.

Install Windows 3.1x

See the manual that came with Windows 3.1x for installation instructions.

Install Windows 95

See the manual that came with Windows 95 for installation instructions.

8

Troubleshoot Configuration Problems

This chapter can provide answers when you have questions about configuring your computer.

I can't assign RAM from my Macintosh to the PC.

Your **DoM/MX** card can use only the RAM installed on it. You cannot assign it RAM from your Macintosh. You can increase the RAM on your **DoM/MX** card by replacing the existing DIMM with a larger one. See Chapter 1, "Configure Your **DoM/MX** Card" for instructions.

I can't assign a COM port to a Macintosh serial port.

COM ports cannot be assigned to Macintosh serial ports that are in use by an application or network software.

If you have assigned a COM port to a Macintosh serial port, you must unassign the COM port and restart your PC before the serial port can again be used by the Mac OS.

9

Configure Video Software

This appendix describes special configuration options for the ATI video drivers and ATI video circuitry that were included with your DoM/MX card.

This appendix describes how to:

- Install and configure video software in Windows 3.1x.
- Install and configure video software in Windows 95 Build 4.00.950 and 4.00.950A.
- Install and configure video software in Windows 95 Build 4.00.950B (OSR2).

Install Video Drivers Under Windows 3.1x

IMPORTANT: Before you begin, make sure Windows 3.1x is installed.

1. If you are in Windows 3.1x, exit to the DOS prompt.
2. Insert the *DoM Video Drivers for Windows 3.1x* diskette.
3. At the DOS prompt, type the following:

```
a:\load64
```

4. Press <return>.
5. Follow the prompts and instructions as they appear on the screen.

After completing the entries required by the installation program, the drivers are successfully installed.

6. Press <esc> to exit the installation program and return to the DOS prompt.
7. Eject the diskette.

Windows may be started at this time with the default resolution of 640 x 480 x 256.

When Windows 3.1x is started, a program group called "ATI Desktop" is created during installation of the drivers. The "ATI Desktop" icon may be selected from the program group to change video resolutions and color depths.

Install ATI Video Drivers Under Windows 95 Build 4.00.950 and 4.00.950A

IMPORTANT: These instructions **MUST** be followed exactly in the order indicated.

NOTE: Before you begin, make sure Windows 95 is installed.

The build revision can be found on the "General" tab in the "System" icon under the control panel.

Perform the following steps to install ATI video drivers under Windows 95 Build 4.00.950 and 4.00.950A.

1. **Start Windows 95.**
2. **Insert the *DoM Video Drivers for Windows 95* diskette into drive "a:."**
3. **Select "Run..." from the Start menu.**

The "Run" window is displayed.

4. **In the "Run" window, type the following path in the "Open" field.**

a:\64w95303.exe

5. **Click the OK button.**

The "ATI Windows 95 Display Driver v3.03-C14SE" window is displayed.

6. **Click the OK button.**

The next screen displayed is set at the default, "Run the ATI Setup Wizard."

7. **De-select "Run the ATI Setup Wizard."**
8. **Select "Complete this installation later by running the ATI Setup Wizard."**
9. **Click the OK button.**

The video drivers are copied to the hard drive.

10. Click the OK button in the next screen that is displayed.

11. Eject the *DoM Video Drivers for Windows 95* diskette.

12. Open the Control Panel.

13. Double-click the “System” icon.

The “System Properties” window is displayed.

14. Select the “Device Manager” tab.

15. Double-click “Other Devices.”

16. Double-click “PCI VGA-Compatible Display Adapter.”

The “PCI VGA-Compatible Display Adapter Properties” window is displayed.

17. Select the “Driver” tab.

18. Click “Change Driver.”

The “Select Hardware Type” window is displayed.

19. Scroll up and double-click “Display Adapters.”

The “Select Device” window is displayed.

20. Click “Have Disk.”

The “Install From Disk” window is displayed.

21. Click “Browse.”

The “Open” window is displayed.

22. Select “c:” drive from the Drives menu.

23. In the “Folders” field, double click the “c:\” folder.

24. Double-click the “ATI” folder.

25. Double-click the “Support” folder.

26. Double-click the “Win95” folder.

27. Click the OK button.

The "Install From Disk" window reappears.

28. Click the OK button.

The "Select Device" window is displayed.

29. Select "Show all devices."

30. Scroll down and double-click "ATI mach64 PCI (Direct Draw)" driver.

The "PCI VGA-Compatible Display Adapter Properties" window reappears.

31. Click the OK button.

The video drivers are copied to the system.

The system then asks, "Do you want to restart your computer now?"

32. Click "No."

33. In the "System Properties" window, double-click "Display adapters."

34. Hi-light "ATI VGA Wonder."

35. Click the "Remove" button.

The "Confirm Device Removal" window is displayed.

36. Click the OK button.

The "System Settings Change" window is displayed with the message, "Do you want to restart your computer now?"

37. Click "Yes."

The system reboots with the new ATI video drivers installed.

The "ATI Desktop Help" window is launched automatically. It describes the following:

- Change the screen resolution
- Set the virtual desktop
- Assign panning hotkeys
- Adjust the screen position
- Set the color correction controls

- Add a multimedia upgrade to your graphics card
- Get more detailed information

Installation is complete.

Install ATI Video Drivers Under Windows 95 Build 4.00.950B (OSR2)

IMPORTANT: These instructions MUST be followed exactly in the order indicated.

NOTE: Before you begin, make sure Windows 95 is installed.

The build revision can be found on the "General" tab in the "System" icon under the control panel.

Perform the following steps to install ATI video drivers under Windows 95 Build 4.00.950 and 4.00.950A.

1. Start Windows 95.
2. Insert the *DoM Video Drivers for Windows 95* diskette into drive a:.
3. Select "Run..." from the Start menu.

The "Run" window is displayed.

4. In the "Run" window, type the following path in the "Open" field.

a:\64w95303.exe

5. Click the OK button.

The "ATI Windows 95 Display Driver v3.03-C14SE" window is displayed.

6. Click the OK button.

The next screen displayed is set at the default, "Run the ATI Setup Wizard."

7. De-select "Run the ATI Setup Wizard."
8. Select "Complete this installation later by running the ATI Setup Wizard."
9. Click the OK button.

The video drivers are copied to the hard drive.

10. Click the OK button in the next screen that is displayed.
11. Eject the *DoM Video Drivers for Windows 95* diskette.
12. Open the Control Panel.
13. Double-click the "Display" icon.

The "Display Properties" window is displayed.

14. Select the "Settings" tab.
15. Click the "Advanced Properties" button.

The "Advanced Display Properties" window is displayed.

16. Click the "Adapter" tab.
17. Click the "Change" button.

The "Select Device" window is displayed.

18. Click the "Have Disk" button.

The "Install From Disk" window is displayed.

19. Click the "Browse" button.
20. Select "C:" drive from the "Drives" menu.
21. In the "Folders" field, double-click on the "c:\\" folder.
22. Double-click the "ATI" folder.
23. Double-click the "Support" folder
24. Double-click the "Win95" folder.
25. Click the OK button.

The "Install From Disk" window reappears.

26. Click the OK button.

The "Select Device" window is displayed.

27. Select "Show all devices."

28. Scroll down and double-click "ATI mach64 PCI (Direct Draw)" driver.

The appropriate display drivers are copied to the system.

The "Advanced Display Properties" window is displayed.

29. Click the "Apply" button.

30. Click the OK button.

The "Display Properties" window reappears.

31. Select the color depth and screen resolution desired.

32. Click the "Apply" button.

The "System Settings Change" window is displayed with the message, "Do you want to restart your computer now?"

33. Click on "Yes."

The system reboots with the new ATI video drivers installed.

The "ATI Desktop Help" window is launched automatically. It describes the following:

- Change the screen resolution
- Set the virtual desktop
- Assign panning hotkeys
- Adjust the screen position
- Set the color correction controls
- Add a multimedia upgrade to your graphics card
- Get more detailed information

Installation is complete.

10

Configure Audio Software

This chapter describes how to:

- Install AudioDrive under Windows 3.1x.
- Install AudioDrive under Windows 95 Build 4.00.950 and 4.00.950A.
- Install AudioDrive under Windows 95 Build 4.00.950B (OSR2).

Install AudioDrive Under Windows 3.1x

Perform the following to install AudioDrive under Windows 3.1x.

NOTE: Before you begin, make sure Windows 3.1x is installed.

1. **Start Windows 3.1x.**
2. **Insert the *DoM Audio Drivers* diskette into the floppy drive.**
3. **Select “Run...” from the pull-down File menu.**
4. **Select “Browse” from the “Run...” window.**
5. **Select “a:” drive from the Drives menu.**

The “a:” directory contents are displayed.

6. **Double-click the Win 3.1x folder.**

The contents of the folder are displayed in the left window.

7. **Double-click “Setup.exe.”**

The “Run...” window is displayed.

8. **Click the OK button.**
9. **Click the “Continue” button.**
10. **Click “Driver Installation.”**
11. **Click “Reboot System.”**

Please remove the floppy diskette when prompted.

Your system restarts and installation of your audio drivers is complete.

Install AudioDrive Under Windows 95 Build 4.00.950 and 4.00.950A

IMPORTANT: These instructions MUST be followed exactly in the order indicated.

NOTE: Before you begin, make sure Windows 95 is installed.

The build revision can be found on the "General" tab in the "System" icon under the control panel.

Perform the following to install AudioDrive under Windows 95 Build 4.00.950 and 4.00.950A.

1. **Start Windows 95.**
2. **Open the Control Panel.**
3. **Double-click the "System" icon.**

The "System Properties" window is displayed.

4. **Select the "Device Manager" tab.**
5. **Double-click "Other Devices."**

Three devices are listed:

(There may be a fourth PCI VGA-compatible display adapter listed if the video drivers have not yet been installed.)

- ESS ES1868 Plug and Play Audio Drive
- ESS ES1868 Plug and Play Audio Drive
- PCI Mass Storage Controller

6. **Double-click the first "ESS ES1868 Plug and Play Audio Drive" listed.**

The "ESS ES1868 Plug and Play Audio Drive" window is displayed.

7. **Select the "Driver" tab.**

8. Click the “Change Driver” button.

The “Select Hardware Type” window is displayed.

9. Scroll down and double-click “Sound, video and game controllers.”

The “Select Device” window is displayed.

10. Click the “Have Disk...” button.

The “Install From Disk” window is displayed.

11. Insert the *DoM Audio Drivers* diskette into the a: drive.

12. Type the following path:

a:\win95

13. Click the OK button.

The “Select Device” window is displayed. “ES1868 Control Interface” is hi-lighted.

14. Click the OK button.

The “ESS ES1868 Plug and Play AudioDrive Properties” window is displayed.

15. Click the OK button.

After the drivers are copied, the “System Properties” window is displayed.

16. Double-click “Other Devices.”

17. Double-click the remaining “ESS ES1868 Plug and Play Audio Drive.”

The “ESS ES1868 Plug and Play AudioDrive Properties” window is displayed.

18. Select the “Driver” tab.

19. Click the “Change Driver” button.

20. Scroll down and double-click “Sound, video and game controllers.”

The “Select Device” window is displayed. “ES1868 Plug and Play AudioDrive” is hi-lighted.

21. Click the OK button.

The “ESS ES1868 Plug and Play AudioDrive Properties” window is displayed.

22. Click the OK button.

The drivers are copied to the system.

At this point, Windows prompts you to insert the *Windows 95 CD-ROM*.

23. Insert your *Windows 95 CD-ROM*.

24. Click the OK button.

Windows copies the appropriate audio utilities.

Please follow any prompts that are displayed.

The "System Properties" window is displayed.

Installation of your audio drivers is complete.

Install AudioDrive Under Windows 95 Build 4.00.950B (OSR2)

IMPORTANT: These instructions MUST be followed exactly in the order indicated.

NOTE: Before you begin, make sure Windows 95 is installed.

The build revision can be found on the "General" tab in the "System" icon under the control panel.

Perform the following to install AudioDrive under Windows 95 Build 4.00.950B (OSR2).

1. **Start Windows 95.**
2. **Open the Control Panel.**
3. **Double-click the "System" icon.**

The "System Properties" window is displayed.

4. **Select the "Device Manager" tab.**
5. **Double-click "Other Devices."**

Three devices are listed:

- ESS ES1868 Plug and Play Audio Drive
- ESS ES1868 Plug and Play Audio Drive
- PCI Mass Storage Controller

6. **Double-click the first "ESS ES1868 Plug and Play Audio Drive" listed.**

The "ESS ES1868 Plug and Play Audio Drive Properties" window is displayed.

7. **Select the "Driver" tab.**
8. **Click the "Update Driver" button.**

The "Update Device Driver Wizard" window is displayed.

9. Insert the *DoM Audio Drivers* diskette into drive a:.

The "Update Device Driver Wizard" window asks, "Do you want Windows to search for the driver?"

10. Make sure the default, "Yes," is selected.

11. Click the "Next" button.

12. Click the "Other Locations" button when the "Update Device Driver Wizard" window reappears.

The "Select Other Location" window is displayed.

13. Type the following path in the "Location" field:

a:\Win95

14. Click the OK button.

The "Update Device Driver Wizard" window reappears.

15. Click the "Finish" button.

The following message is displayed:

Please insert the disk labeled "Driver Disk," and then click OK.

Make sure the *DoM Audio Drivers* disk is in drive "a:"

16. Click the OK button.

The "Copying Files..." window is displayed.

17. In the "Copy files from:" field, type the following path:

a:\Win95

18. Click the OK button.

Please wait until the files are copied and the "ES1868 Control Interface Properties" window is displayed.

19. Click the "Close" button.

The "System Properties" window is displayed.

20. Double-click "Other Devices."

21. Double-click the remaining “ESS ES1868 Plug and Play Audio Drive.”

The “ESS ES1868 Plug and Play AudioDrive Properties” window is displayed.

22. Select the “Driver” tab.

23. Click the “Update Driver” button.

The “Update Device Driver Wizard” window is displayed.

The “Update Device Driver Wizard” window asks, “Do you want Windows to search for the driver?”

24. Make sure the default, “Yes,” is selected.

25. Click the “Next” button.

26. Click the Other Locations button when the Update Device Driver Wizard window reappears.

The “Select Other Location” window is displayed.

27. Type the following path in the “Location” field:

a:\Win95

28. Click the OK button.

The “Update Device Driver Wizard” window reappears.

29. Click the “Finish” button.

Please wait until the files are copied and the “ES1868 Plug and Play AudioDrive Properties” window is displayed.

30. Click the “Close” button.

Installation of your audio drivers is complete.

11

Install Network Client Software

Use this chapter as a supplement to your network software documentation. Should your configuration still not work after following the instructions here, contact the manufacturer of your network software.

Network Configuration

Networking allows your **DoM/MX** card to use the network connections of the computer into which it is installed. Networking provides for file sharing, network printing and access to the Internet.

Your **DoM/MX** card supports network drivers that conform to the Novell Open Data-Link Interface (ODI).

NOTE: See the Readme file that came on your **DoM** Networking for detailed information and supported network protocols.

NOTE: Before you begin, complete the Macintosh software and PC software installations described above and restart the PC.

Windows 95

1. Select “start”—“Settings”—“Control Panel.”
2. Double-click the “Network” icon.
3. Click the “Add” button.
4. Select “Existing ODI Driver.”
5. Click OK.
6. Follow the instructions that came with Windows 95 for specifying network options or consult your network administrator.
7. Restart the PC.

Windows For Workgroups

- 1. Double-click the “Network Setup” icon in the Network Program Group.**
- 2. Click “Networks.”**
- 3. Select “Install Microsoft Network.”**
- 4. Click the OK button.**
- 5. Click “Drivers... ”**
- 6. Select “IPXODI Support Driver (Ethernet) (ODI/NDIS3)”**
- 7. Click the OK button.**
- 8. Follow the instructions that came with Windows For Workgroups for specifying network options or consult your network administrator.**
- 9. Restart the PC.**

Appendix A

Remove the Old DIMM

This appendix describes how to:

- Open the computer.
- Remove your **DoM/MX** card.
- Remove the existing DIMM, if one is installed.

Open the Computer

1. **Turn off your computer.**

Be sure the computer is plugged in but turned off.

2. **Remove the cover from your computer.**

See the manual that came with your computer model for instructions.

Remove Your DoM/MX Card

See Chapter 3 in this manual for detailed instructions on installing your DoM/MX card in your computer model.

1. **Remove the loopback cable from the port on the back of your DoM/MX card.**

2. **Touch the metal part of the power supply case inside the computer to discharge any static electricity that might be on your clothes or body.**

Be sure to do this before you touch any parts or install any components inside the computer.

3. **Locate your DoM/MX card.**

4. **Disconnect the cables attached to your DoM/MX card.**

Be sure to pull the connectors, not the cables.

Remember where the cables were attached so you can reconnect them later.

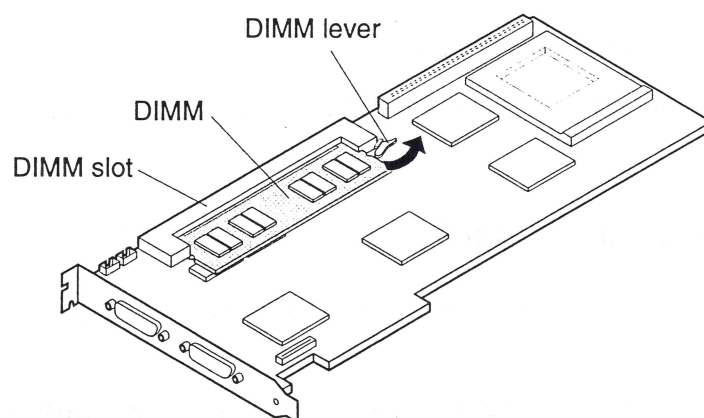
5. **Remove your DoM/MX card by firmly lifting it straight up.**

Grasp the card by its sides to remove it.

CAUTION: Do not rock the card from side to side as you remove it. Damage to the card or the slot can result.

Remove the Old DIMM

1. Gently push the DIMM lever (or levers) until it opens.

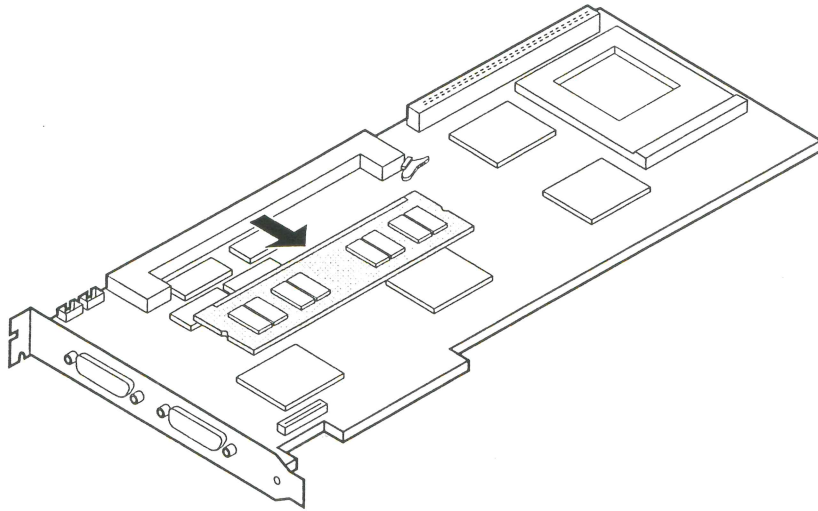


2. Pull the DIMM to remove it.

If the DIMM sticks, do not force it—pull gently.

Be careful not to touch the connectors.

Set the DIMM aside.



NOTE: See Chapter 1 for instructions on installing a new DIMM.

Appendix B

Technical Information

General Specifications

Description

- 12-inch PC-compatible DoM/MX card.

System

- Pentium or Pentium-compatible microprocessor
- 256K or 512K L2 cache
- Plug-n-Play BIOS

Power

- +5 volts, ± 12 volts
- 25 watts maximum

Networking

- Supports ODI network drivers
- Supports the following:
 - AppleShare
 - Banyan Vines
 - IPX/SPX
 - NetBEUI
 - Novell LAN Workplace
 - TCP/IP
 - Trumpet WinSock
- OS/2 LAN Server client protocols in the PC environment

Sound

The 16-bit ESS sound system provides:

- PC sound played through your computer speaker or headphones
- CD-ROM sound recording capability
- Enhanced FM-synthesized sound-out capabilities
- 8- and 16-bit digital sound

Keyboard and Mouse

- Macintosh ADB keyboard and mouse emulate PC AT-compatible keyboard and PS/2-compatible mouse.

Joystick

- Standard PC-style joysticks are supported through the DB-15 connector included on the card (PC applications only).

MIDI

- MIDI devices are supported through a Sound Blaster-compatible joystick-to-MIDI adapter cable (available separately).

Serial Ports

- Two PC-compatible RS-232 serial interfaces can be routed (under software control) to a text file or through one of the two Macintosh RS-422 serial ports (RS-422 ports do not support all RS-232 signals). These ports are limited to 19.2kBAUD or less.

Parallel Port

- The Macintosh printer port can emulate a PC XT/AT-compatible parallel port (LPT1).