



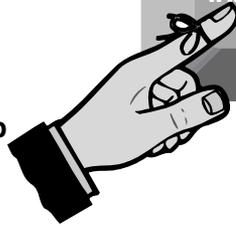
**iomega**®

**Ditto Tape Drive Installation**  
**Ditto Tools Software Installation**  
**User's Guide**

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## USING THIS GUIDE

You now have a Ditto tape drive that's going to help you back up and organize all your stuff! Where do you start? It's easy! All you have to do is install the tape drive and then the software. This guide will take you through the process step by step!



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### 3 Using your Ditto tape drive

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- Your Ditto Max Drive
- Your Ditto Easy 3200 Drive
- Solving Problems with all Ditto drives
- Warranty
- Contacting lomega

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# INSTALLING YOUR EXTERNAL TAPE DRIVE

Using this guide, you will be able to install your new external tape drive. Installation of the tape drive requires three basic steps.

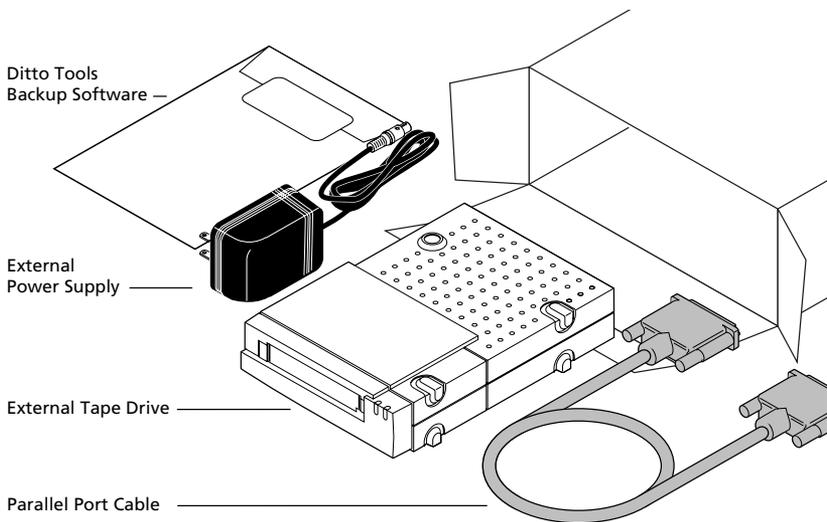
- 1      Preparing the drive
- 2      Preparing the computer
- 3      Connecting the drive to the computer

After you have installed the drive, refer to [Installing Your Software](#) for further instructions.

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## GETTING STARTED

Unpack the tape drive and accessories.

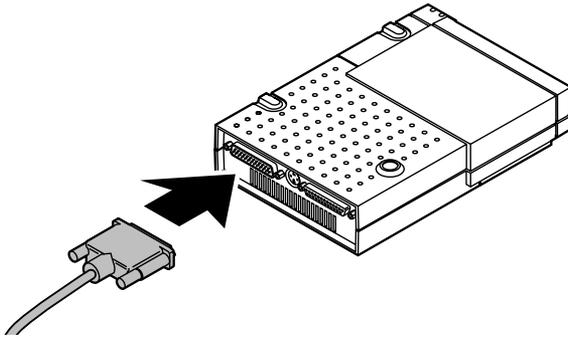


(actual tape drive may not match illustration)

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## PREPARING THE DRIVE

- 1 Connect the parallel port cable to the back of the tape drive.



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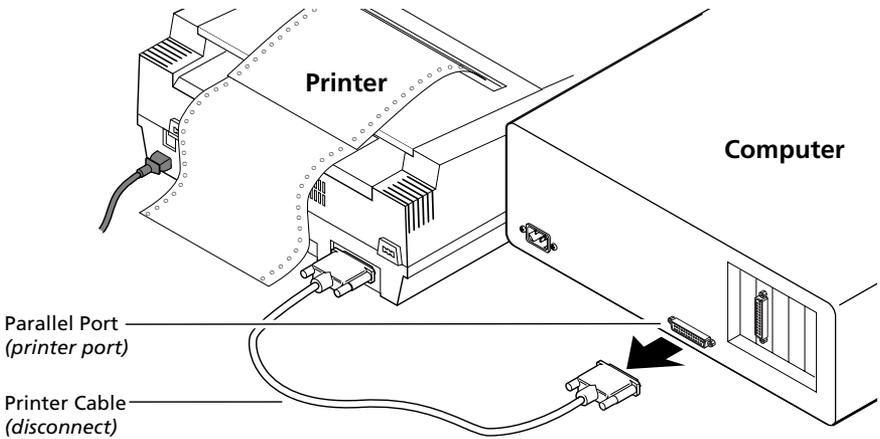
## PREPARING THE COMPUTER

- 2 Turn *off* the power switches on the computer and printer. (*Computer power switches are often marked with the symbols I for ON and O for OFF.*)

**Warning:** Always turn off computer power before beginning any computer hardware change.

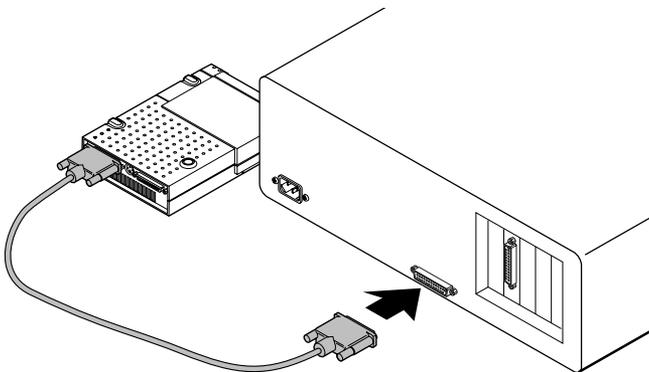
- 3 Locate the computer's parallel port (printer port) by tracing the printer cable from the back of the printer to the computer.

- 4**     **Disconnect the printer cable from the computer.**  
**(If you have more than one parallel port, simply**  
**connect the tape drive to the extra parallel port.)**

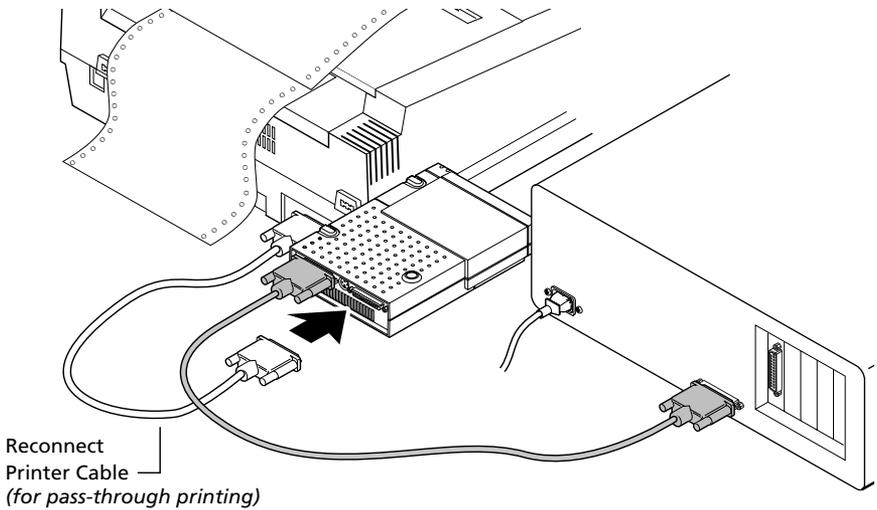


## **CONNECTING THE DRIVE TO THE COMPUTER**

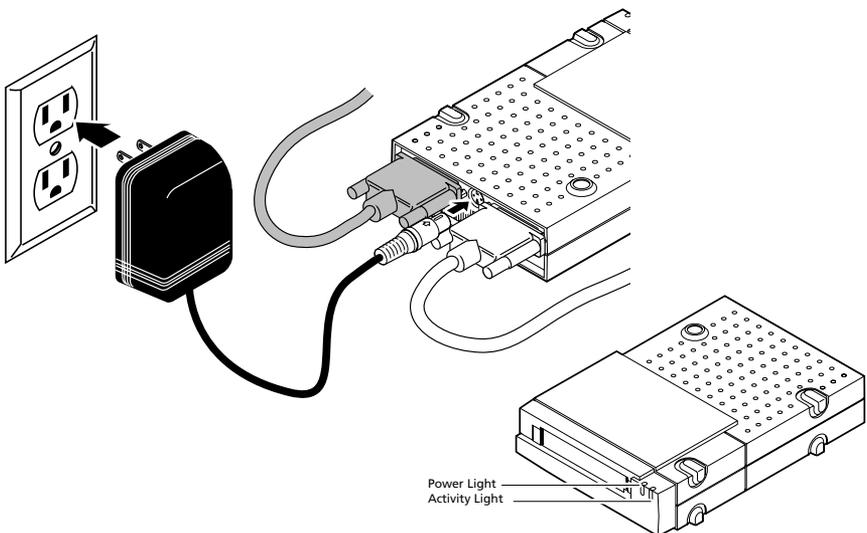
- 5**     **Connect the external tape drive to the computer**  
**parallel port (connector fits only one way).**



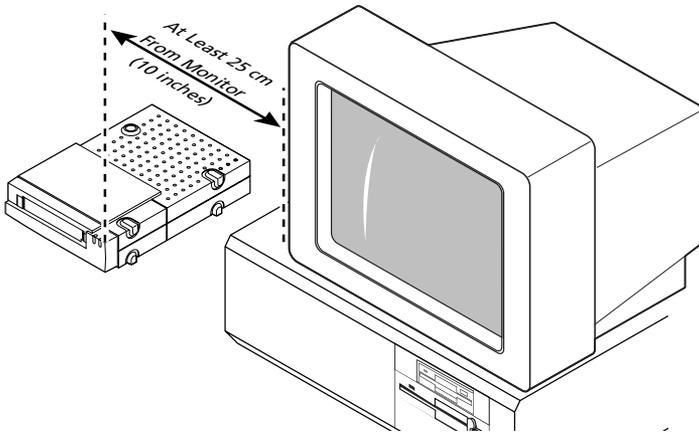
**6 Connect the printer cable to the tape drive.**



**7 Connect the external power supply to your power source and the tape drive. (When the drive is first plugged in, the tape drive activity light flashes and then turns OFF. The power light remains on.)**



- 8 Position the tape drive **AT LEAST 10 inches (25 cm)** from monitor for best performance.



- 9 Good job! Now turn **ON** the power switches (*those turned off in step 2*), and **WAIT** for the DOS prompt (C:>) or Windows® to come up on your screen.

**Reminder: Please fill out and return your warranty and registration information. Many of the advanced features of your Iomega tape drive are the result of customer feedback. Your comments are an important resource for Iomega in designing future products. Thank you for choosing Iomega.**

# IMPORTANT COMPATIBILITY INFORMATION

## Printing in Windows 95

With Windows 95, you may experience problems using the pass-through printing feature of your Ditto drive. The cause of this problem is usually the printer's Status Monitor in the printer manufacturer software. Until the printer manufacturers fix this problem, disabling the printer's Status Monitor usually resolves the issue without affecting your printer's performance.

At this time, the problem exists with parallel port printers connected to any type of parallel port tape drive.

For some simple solutions, locate your printer in the chart below and follow the instructions for the specified solution.

Printers	Solutions		
	1	2	3
HP Laserjet 4L, 4+, 4V, 4SI, 4P, 5P, 5M, 6P, 6M	x		
Brother HL630	x		
Canon BJC 610, 620, and 4000 series	x		
Lexmark	x		
Okidata 600e	x		
HP DeskJet 820C series		x	
HP LaserJet 5L			x

If your printer is not listed, try solution #1; your printer may have been added to Windows 95's generic printer drivers after this guide was printed. If solution #1 does not correct your printing problem, contact your printer manufacturer.

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## SOLUTION #1

### Use Windows 95 Generic Printer Drivers

- 1 Click the **Start** button on the taskbar.
- 2 Select **Settings** then **Printers**. (Note the name of your current printer: \_\_\_\_\_ )
- 3 Double-click on the **Add Printer** icon.
- 4 Click **Next**.
- 5 Choose **Local Printer** and click **Next**.
- 6 Select your printer **manufacturer** and type of printer and click **Next**. (Do not choose Have Disk.)
- 7 A screen may display stating you already have this driver installed. If this screen displays, choose **Replace Existing Driver** and click **Next**.
- 8 Choose the port for the printer (usually this is LPT1) and click **Next**.
- 9 Use the name suggested for your printer and select **Yes** to designate it as the default printer; click **Next**.
- 10 Select **Yes** to print a test page and click **Finish**.
- 11 To uninstall the old manufacturer's printer drivers, right mouse click on the old printer's icon and select **Delete**.
- 12 Choose **Yes**.
- 13 Restart Windows 95.

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## SOLUTION #2 (HP 820C SERIES ONLY)

### Change Printer Properties

- 1 Click the **Start** button and select **Run**.
- 2 Type: **c:\windows\system\hpfcfg04.exe** and select **OK**.
- 3 Select **Continue**.
- 4 In the available options listing, deselect the check box next to **Bidirectional Communication**.
- 5 Select **Restart Windows**.

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## SOLUTION #3 (HP LASERJET 5L ONLY)

### Uninstall And Reinstall Printer Software Using the PCL Driver

- 1 Shut down your system and turn off power.
- 2 Disconnect your printer from the Ditto drive.
- 3 Turn on your computer and let Windows 95 load.
- 4 Click the **Start** button, select **Programs**, then **HP LaserJet 5L** and **Uninstall**.
- 5 With the printer disconnected, reinstall your printer software and select **Install the PCL driver alternative**.
- 6 Do **not** Restart Windows.
- 7 Shut down your system and turn off power.
- 8 Reconnect printer to Ditto drive.
- 9 Turn on your computer and let Windows 95 start.

**Note:** Some parallel ports are set to ECP mode. If so, setting the port to bidirectional or EPP mode may also be necessary. Refer to your computer manual for instructions on how to set the parallel port mode.

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# INSTALLING YOUR INTERNAL TAPE DRIVE



Installing your internal tape drive is now easier than ever! We've created an installation video to help you install your internal tape drive quickly and easily. You don't want to miss this! You can watch it as many times as necessary—simply put the Ditto Tools CD into your CD-ROM drive and follow the directions below for your operating system.

## Windows 95 and NT

- 1 Quit out of the software installation that may start when you insert the CD.
- 2 Click the **Start** button and choose **Run**.
- 3 Type **X:video32.exe** (where X is the letter for your CD-ROM drive) and click **OK**.

## Windows 3.1 and higher

- 1 Choose **Run** from the Program Manager's **File** menu.
- 2 Type **X:video16.exe** (where X is the letter for your CD-ROM drive) and click **OK**.

**Run the video as many times as you want to, following along with the printed guide; remember that you won't be able to run the video as you install the drive because the computer power will be off.**

Using this section as a guide, you will be able to install your new internal tape drive. Installation of the tape drive requires three basic steps.\*

- 1 Preparing your computer
- 2 Preparing the drive
- 3 Connecting the drive to the computer

To complete this project you will need a phillips screwdriver and, perhaps, a flathead screwdriver. We also recommend that you set your computer on a table (not the floor) to install the drive.

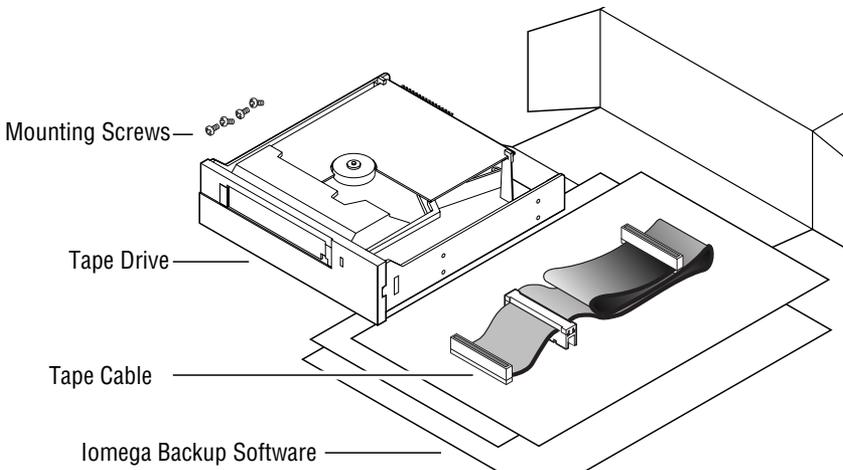
**\*If you are installing a Ditto Dash accelerator card, see the Ditto Dash Installation Guide, and install the card before installing the drive. If you are installing the Ditto Max drive, follow the instructions in this manual to install the Ditto Dash DX accelerator card.**

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## GETTING STARTED

Unpack the tape drive and accessories onto a table.

**Caution: Touch a grounded metal object (like a metal cover screw on your computer) to discharge personal static electricity before handling the tape drive.**

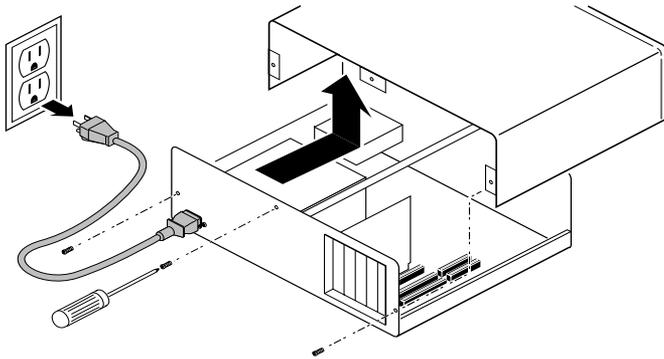


## PREPARING THE COMPUTER

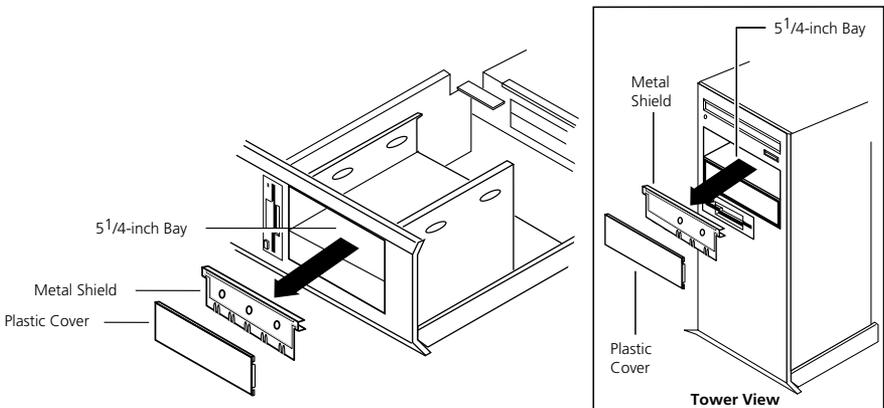
- 1 Remove any CD-ROM disks or floppy disks from the computer's drives, turn off the power switch, and *disconnect* the power cord.

**Warning:** Always disconnect computer electrical power at the power source before beginning any computer hardware change.

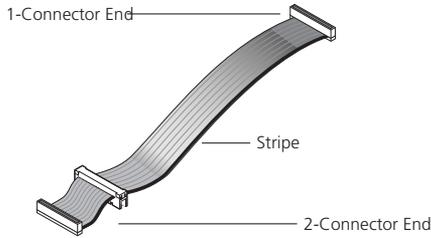
- 2 Remove the computer cover. (Most computers have three or four screws on the rear panel that hold the cover. Refer to your computer manual if removal is unclear.)



- 3 Locate a vacant  $5\frac{1}{4}$ -inch drive bay. Remove the plastic cover and, if necessary, the metal shield.



- 4**      **Unfold the tape cable and note the stripe on the edge of the cable.**

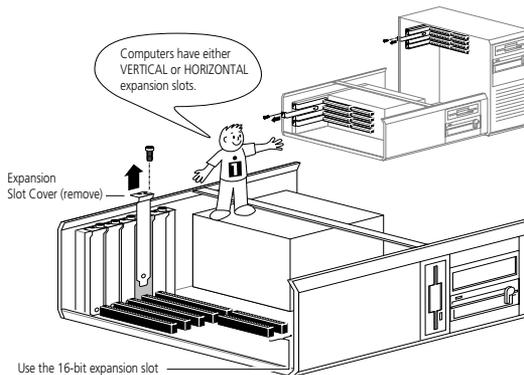


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## **INSTALLING A DITTO DASH DX ACCELERATOR CARD**

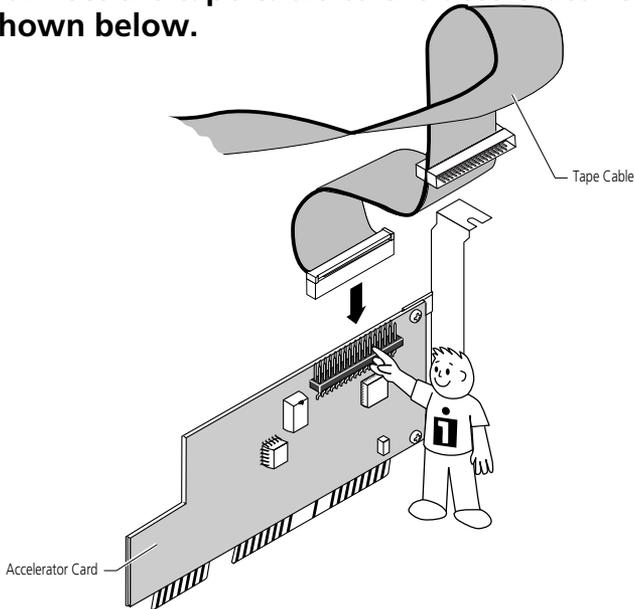
If you did not purchase a Ditto Max tape drive, go directly to **step 10**. If you did purchase a Ditto Max tape drive, you received an additional piece of hardware—a Ditto Dash DX accelerator card. You should now install the Ditto Dash DX.

- 5**      **Locate a vacant 16-bit expansion slot and remove the expansion slot cover.**

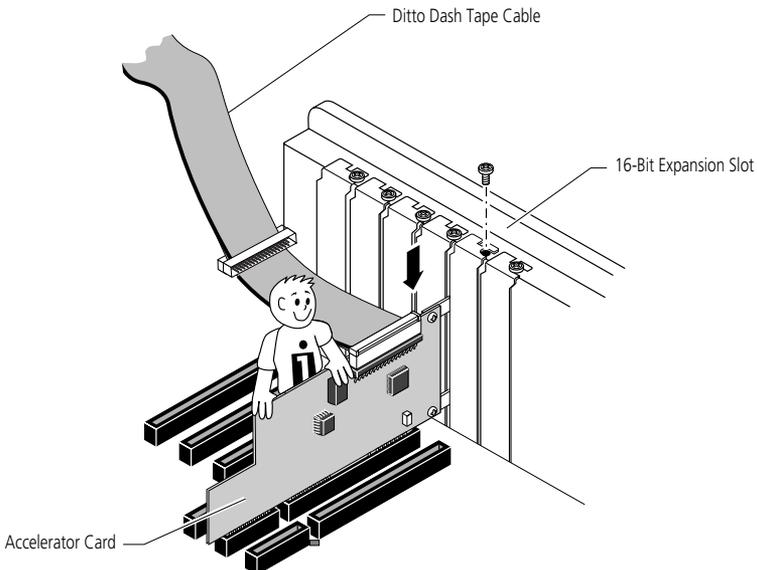


- 6**      **Find the colored stripe on the edge of the tape cable.**

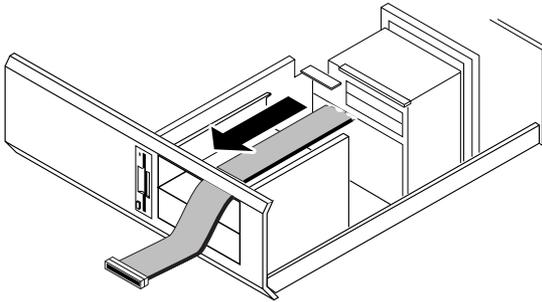
- 7** Connect the tape cable to the accelerator card as shown below.



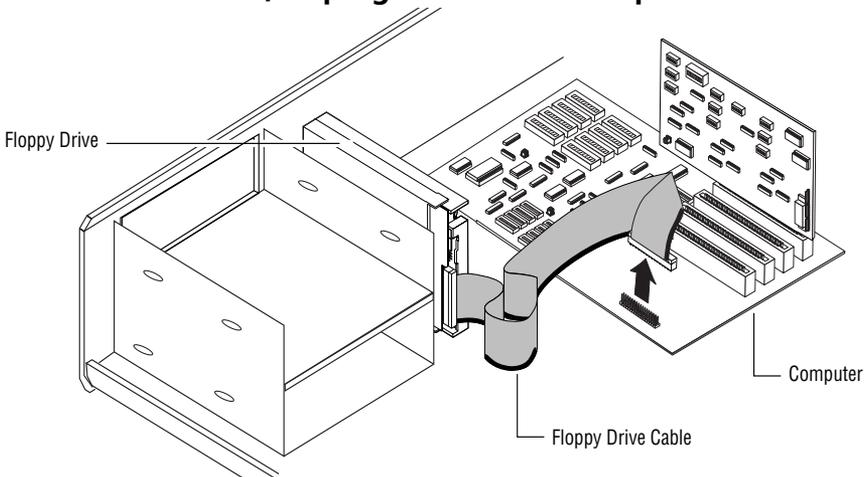
- 8** Install the accelerator card into the 16-bit expansion slot by pushing firmly on the accelerator edge until it "clicks" into the slot; secure with a screw.



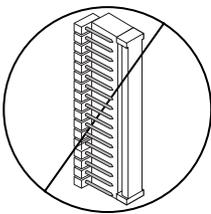
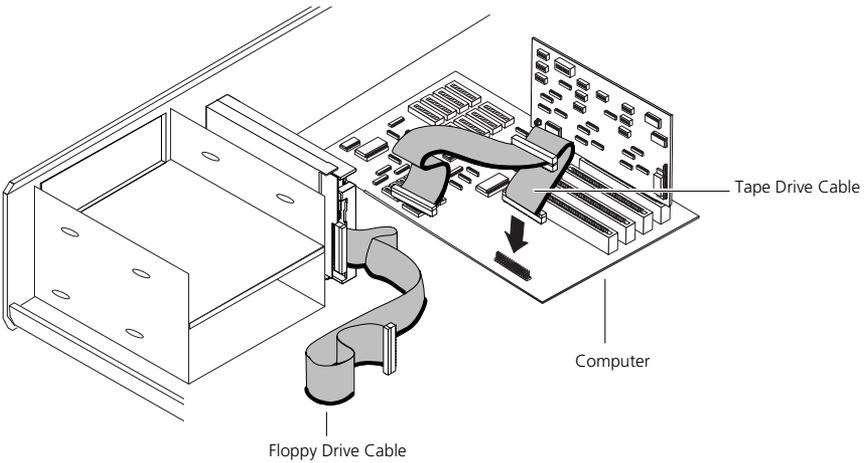
- 9 Thread the tape cable through the bay opening where the tape drive will be installed and go directly to **step 16** (skipping steps 10 - 15).



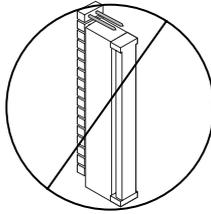
- 
- 10 If you do not have a Ditto Dash DX accelerator card, locate your floppy drive cable and find where it connects to your computer. (You can trace the cable from the rear of your floppy drive to its connection on the computer.)
- 11 Now look at the cable and find the striped edge, making a note of how the stripe on the cable is oriented to the connector. (Is it on the left or right side, top or bottom?)
- 12 After identifying the striped edge of the floppy drive cable, unplug it from the computer.



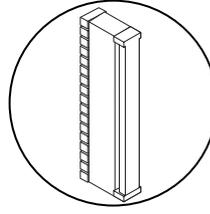
- 13** Now plug the tape cable onto the same connection from which you just removed the floppy drive cable. Be sure to maintain the stripe orientation.



**Incorrect**



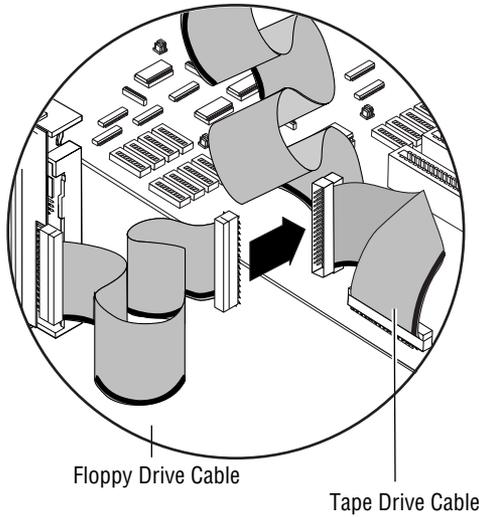
**Incorrect**



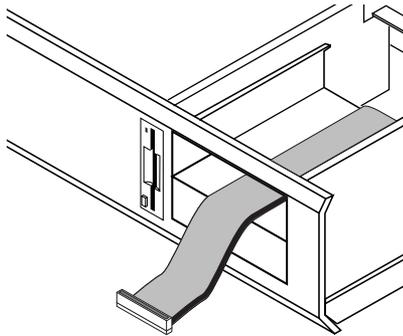
**Correct**

**Note:** The most common mistake made when installing a tape drive occurs when the cables are connected improperly. To avoid this problem be sure to plug the striped edge into Pin One and plug the cable onto the pins properly.

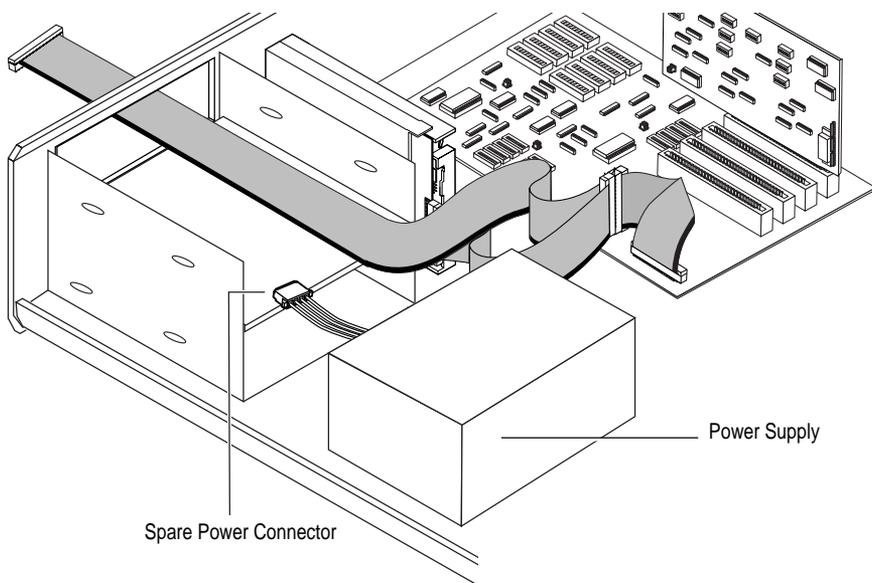
- 14** Next connect the floppy cable to the tape cable so that the stripe is on the same side.



- 15** Feed the free end of the tape cable out through the open bay of the computer.



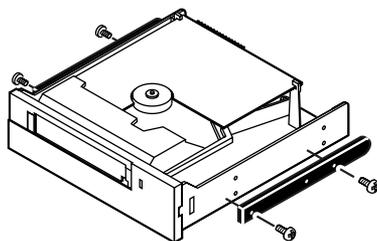
- 16 Find a spare power connector inside your computer and place the end near the back of the empty bay.



## PREPARING THE TAPE DRIVE

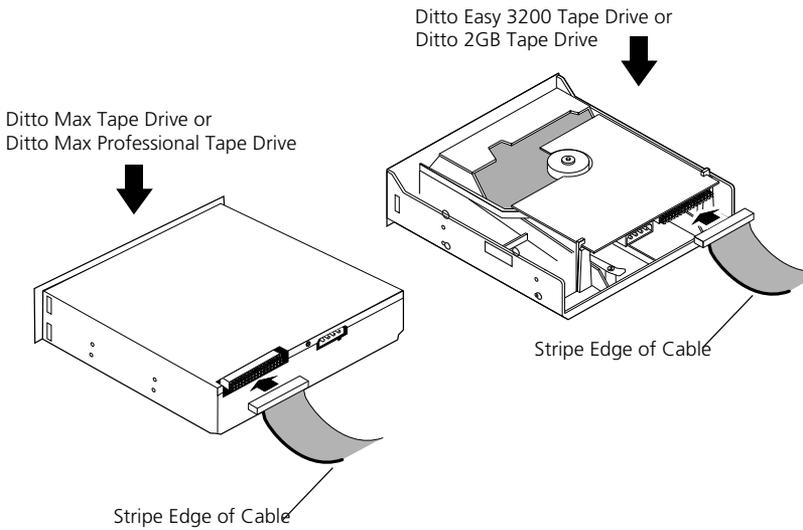
- 17 Check your computer's mounting requirements; your drive bay may require side rails.

**(Hint: Use the same mounting hardware as on similar drives in your system. See your computer dealer for any special hardware.)**

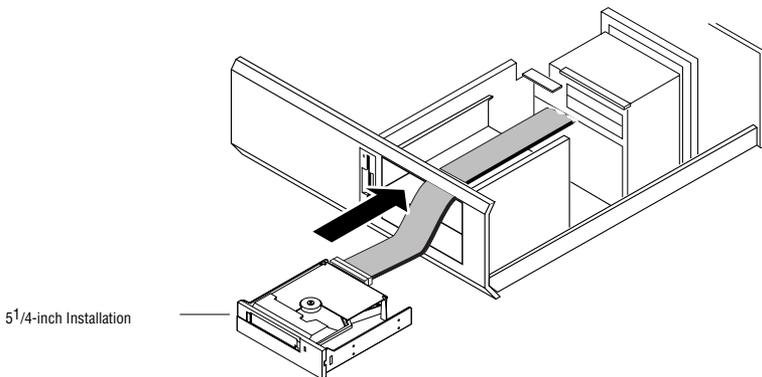


## CONNECTING THE TAPE DRIVE

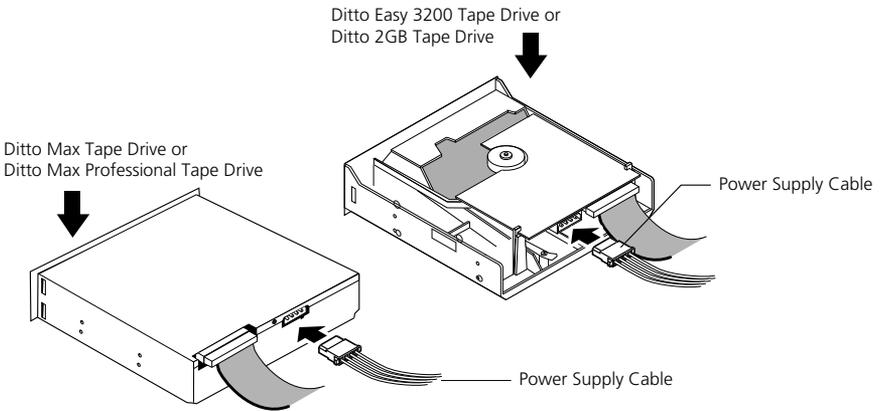
- 18** Connect the tape cable to the back of the tape drive as shown below for your tape drive.



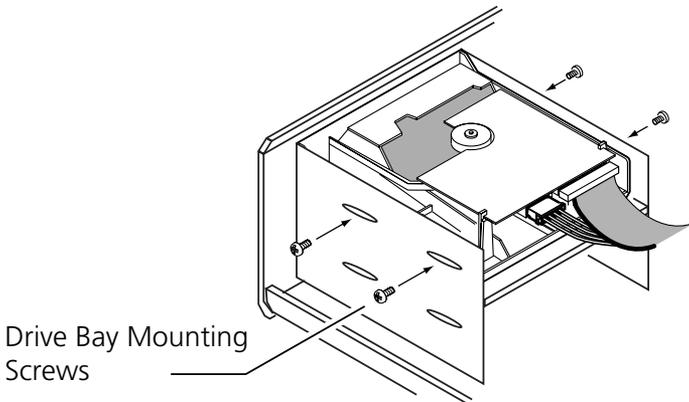
- 19** Slide the tape drive into the drive bay.



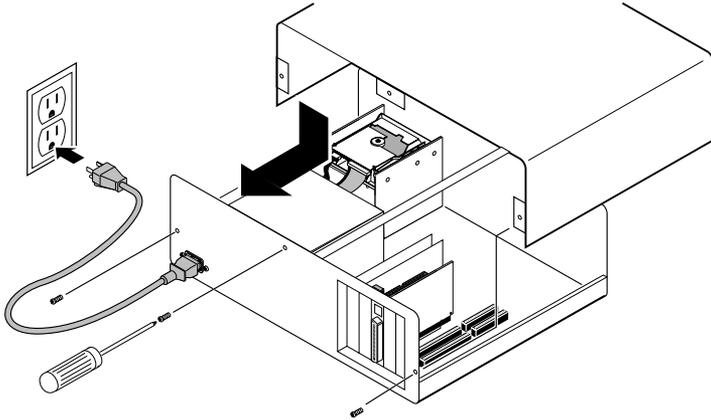
**20** Connect the computer power supply cable you found in **step 16** to the back of the drive.



**21** If necessary, secure the drive in the drive bay using the screws shipped with your drive.



- 22 Good job! Now check all the connections, arrange the cables to fit under the cover, and replace the computer cover.



- 23 Reconnect the power cord, turn on the power switch, and wait for DOS or Windows to start. Turn to *Installing Your Software* to begin software installation.

**(Windows 95 may detect the new hardware and display a window asking for more information. If this happens, simply Cancel that window and install the Ditto Tools software as instructed.)**

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# INSTALLING YOUR SOFTWARE

Instructions for installing the Ditto Tools software are specific for the following operating systems:

- **Windows 95**
- **Windows 3.1 or higher**
- **Windows NT 4.0**
- **DOS**

Turn to the instructions in this manual for your operating system and verify that your system meets the minimum system requirements, then begin installation.

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# USING WINDOWS 95

## System Requirements for Ditto 2GB and Ditto Easy 3200

To use Ditto Tools with your Ditto 2GB tape drive your system must meet the following minimum requirements.

- IBM or IBM-compatible with a 486 processor or higher
- 8MB or more RAM
- 4MB free space on a hard drive
- 2X CD-ROM drive
- A Microsoft or 100% compatible mouse (highly recommended)

## System Requirements for Ditto Max

To use Ditto Tools with your Ditto Max tape drive your system must meet the following minimum requirements.

- Windows 95
- IBM or IBM-compatible with a  
486 33 Mhz processor (Internal minimum, no compression) or  
Pentium 150 Mhz (Internal optimized)  
Pentium 100 Mhz processor (Parallel Port min., no compression) or  
Pentium 150 Mhz (Parallel Port–2mbps with compression)
- 8MB or more RAM (16MB recommended)
- 4MB free space on a hard drive
- EPP (Enhanced Parallel Port) Parallel Port drive only
- 2X CD-ROM drive
- A Microsoft or 100% compatible mouse (highly recommended)

## Software Installation

Close all applications including virus scanners and screen savers. Insert the Ditto Tools CD-ROM into the CD-ROM Drive. **Ditto Tools will begin to install automatically.**

If Ditto Tools doesn't begin to install automatically, follow the steps below.

- 1 Choose **Run** from the **Start** menu.
- 2 Type **X:INSTALL** (where X is the letter of your CD-ROM drive) in the Command Line text box.
- 3 Click on **OK**. Ditto Tools will begin to install.
- 4 Follow the on-screen instructions to complete installation.
- 5 Be sure to register on-line or send in your registration.
- 6 Restart Windows 95 before running Ditto Tools.

## 1-Step Backup

For your first backup, we recommend using 1-Step Backup. Simply double-click on the 1-Step Backup icon on your desktop. (Be sure to close all screen saver and virus checker programs and insert a tape cartridge.) 1-Step Backup will make a full backup of your hard drive. This procedure may take from thirty minutes to over an hour. For more detailed information about 1-Step Backup, see the on-line help file in Ditto Tools.

If you start 1-Step Backup and a message displays stating that the tape drive cannot be found, verify the hardware connections you made when installing the tape drive. If you installed a parallel port drive, verify that it is plugged into an outlet. Restart Windows and try 1-Step Backup again. If the tape drive is still not detected, refer to the "**Hardware and Software Configuration**" section on the next page. Also review "**Solving Problems**" in **Using Your Ditto Tape Drive** section of this guide.

## FullBack™

After 1-Step Backup is finished you will be prompted to create FullBack disks. FullBack is a recovery utility that helps you recover from a complete system failure. We highly recommend that you take the time to create these disks and update them as you are prompted. For more information about FullBack, see the *Bumper-to-Bumper* certificate and Emergency Kit included with your drive.

## Flash!File™

lomega's Ditto Max and Flash!File technology lets you use your tapes for more than back up. Now you can drag and drop files onto a drive letter for your Ditto Max tape drive. A special area (125 MB) on the tape is reserved for those files and your average access time is only five seconds!

## Hardware and Software Configuration

There are a few simple reasons why your tape drive may not be detected by your system. If your parallel port drive is not detected, refer to the **"Solving Problems"** section under **Using Your Ditto Tape Drive** in this guide.

If you installed an internal tape drive with a Ditto Dash DX or Ditto Dash accelerator card and the system cannot detect the drive, you may be experiencing conflicts in the DMA, IRQ, and I/O addresses for the card. Refer to the **"Solving Problems"** section under **Using Your Ditto Tape Drive** in this guide.

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# USING WINDOWS 3.1 OR HIGHER

## System Requirements

To use Ditto Tools your system must meet the following minimum requirements.

- IBM or IBM-compatible with a 486 processor or higher
- 8MB or more RAM
- MS-DOS 5.0 (or higher) or PC-DOS 5.0 (or higher)
- 4MB free space on a hard drive
- A Microsoft or 100% compatible mouse (highly recommended)

## Software Installation

### Using the CD-ROM

- 1 Insert the Ditto Tools CD into the CD-ROM Drive.
- 2 Choose **Run** from the Program Manager **File** menu.
- 3 Type **X:\WIN31\ENGLISH\SETUP** (where X is the letter of your CD-ROM drive) in the Command Line text box.
- 4 Click **OK**. Ditto Tools will begin to install.
- 5 Follow the on-screen instructions to complete installation.
- 6 Be sure to register on-line or send in your registration.
- 7 Restart Windows before running Ditto Tools.

### Using the diskettes (optional)

- 1 Insert the Ditto Tools disk #1 into drive A: or B:.
- 2 Choose **Run** from the Program Manager **File** menu.
- 3 Type **A:SETUP** or **B:SETUP** (depending on which floppy drive you are using) in the Command Line text box.
- 4 Click **OK**. Ditto Tools will begin to install.

- 5 Follow the on-screen instructions to complete installation.
- 6 Be sure to register on-line or send in your registration.
- 7 Restart Windows before running Ditto Tools.

***NOTE: When upgrading from a previous software version, the configuration and all existing catalog and setup files are preserved.***

## **1-Step Backup**

To begin your first backup, we recommend using 1-Step Backup. Simply double-click on the 1-Step Backup icon on your desktop. (Be sure to close all screen saver and virus checker programs and insert a tape cartridge.) 1-Step Backup will make a full backup of your hard drive. This procedure may take from thirty minutes to over an hour. For more detailed information about 1-Step Backup, see the on-line help file in Ditto Tools.

If you start 1-Step Backup and a message displays stating that the tape drive cannot be found, verify the hardware connections you made when installing the tape drive. If you installed a parallel port drive, verify that it is plugged into an outlet. Restart Windows and try 1-Step Backup again. If the tape drive is still not detected, refer to the **“Hardware and Software Configuration”** section on the next page. Also review **“Solving Problems”** in the **Using Your Ditto Tape Drive** section of this guide.

## Hardware and Software Configuration

There are a few simple reasons why your tape drive may not be detected by your system. If your parallel port drive is not detected, refer to the **“Solving Problems”** section under **Using Your Ditto Tape Drive** in this guide.

If you installed an internal tape drive and a Ditto Dash DX or Ditto Dash accelerator card and the system cannot detect the drive, you may be experiencing conflicts in the DMA, IRQ, and I/O addresses for the card. Refer to the **“Solving Problems”** section in the Ditto Dash DX or Ditto Dash accelerator card installation guides for more information.

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# USING WINDOWS NT 4.0 (OPTIONAL)

## Minimum System Requirements

- Windows NT 4.0
- Pentium processor
- 32MB or more RAM
- A hard disk with 5MB free
- A Microsoft or 100% compatible mouse

## Software Installation

Close all applications including virus scanners and screen savers. Insert the Ditto Tools CD-ROM into the CD-ROM Drive. (NT 4.0: Ditto Tools will begin to install automatically.) If it does not start automatically, follow the directions below.

- 1 Choose **Run** from the **Start** menu.
- 2 Type **X:\NT\ENGLISH\DISK1\SETUP** (where X is the letter of your CD-ROM drive) in the Command Line text box.
- 3 Click on **OK**. Ditto Tools will begin to install.
- 4 Follow the on-screen instructions to complete installation.
- 5 Be sure to register on-line or send in your registration card.
- 6 Restart Windows NT before running Ditto Tools.

## 1-Step Backup

For your first backup, we recommend using 1-Step Backup. Simply double-click on the 1-Step Backup icon on your desktop. (Be sure to close all screen saver and virus checker programs and insert a tape cartridge.) 1-Step Backup will make a full backup of your hard drive. This procedure may take from thirty minutes to over an hour. For more detailed information about 1-Step Backup, see the on-line help file in Ditto Tools.

If you start 1-Step Backup and a message displays stating that the tape drive cannot be found, verify the hardware connections you made when installing the tape drive. If you installed a parallel port drive, verify that it is plugged into an outlet. Restart Windows and try 1-Step Backup again. If the tape drive is still not detected, refer to the [“Hardware and Software Configuration”](#) section below. Also review [“Solving Problems”](#) in [Using Your Ditto Tape Drive](#) section of this guide.

## [Hardware and Software Configuration](#)

There are a few simple reasons why your tape drive may not be detected by your system. If your parallel port drive is not detected, refer to the [“Solving Problems”](#) section under [Using Your Ditto Tape Drive](#) in this guide.

If you installed an internal tape drive with a Ditto Dash DX or Ditto Dash accelerator card and the system cannot detect the drive, you may be experiencing conflicts in the DMA, IRQ, and I/O addresses for the card. Refer to the [“Solving Problems”](#) section under [Using Your Ditto Tape Drive](#) in this guide.

## Backup and Recovery

When using Windows NT and Ditto Tools software to back up your data, you are choosing to safeguard your data from that ultimate disaster—a hard drive failure. This section explains the backup strategy plan that will help you recover lost data in the event your hard drive fails. The plan is not difficult to follow, however, it requires consistency on your part.

- 1 Before every backup job, you must run the NT system program **RDISK**.

The RDISK program records your system's registry information (for example, configuration data and all the user preferences you've set). If this information is current and available on a backup tape, restoring the data on the tape after a hard disk failure will restore all the configuration and user preferences. These files are essential for a smooth recovery.

- 2 Make regular and frequent backups of your hard drive.

The backup tapes will contain your latest full backup and any differential or incremental backups you have made.

If you do these two things, you will be prepared to follow the **Disaster Recovery Instructions** in the event of a hard disk failure.

## Run RDISK Before Every Backup

- 1 To start RDISK, select **Run** from the **Start** menu.
- 2 Type **RDISK /S** in the Open text box and click **OK**.
- 3 Click on the **Update Repair Info** button.
- 4 Choose **Yes** when asked "Do you want to continue this operation?"
- 5 Choose **No** when asked "Do you want to create an Emergency Repair disk?" (Your information will be on the backup tape after you run a backup.)
- 6 Click **Exit**.
- 7 Run your regularly scheduled backup using 1-Step Backup or The Works.

## Disaster Recovery Instructions

Use the following instructions to restore data to your hard disk after a hard disk failure.

- 1 Replace all damaged hardware and format the destination drive properly. (Reference your Windows NT manual for help.)
- 2 Boot up your computer with the Windows NT system disk in your floppy drive (or in your CD-ROM drive if you have a bootable CD-ROM drive).
- 3 Follow all the instructions to reinstall Windows NT and reboot the machine when prompted. After the reboot, your main screen will look like a generic version of Windows NT without any of the preferences you had set up before.
- 4 Install Ditto Tools NT as instructed in the Ditto Tools NT Software Installation Guide.
- 5 Reboot the machine at the end of the installation as instructed.
- 6 When the machine has finished rebooting, start The Works program in the Iomega Ditto Tools NT program group.
- 7 Insert the tape that contains your last full backup into the tape drive.

- 8 Select **Configuration** from the **Utilities** menu and verify that the installed tape drive is recognized. You should see a tape drive listed in the **Configured Devices** box. If no tape drive is listed, manually add the tape drive, following the on-screen instructions.
- 9 Now select **Options** from the **File** menu and click on the **Error Handling** tab.
- 10 On the Error Handling page, deselect **error prompting**, then click **Close**.
- 11 Now select the Restore tab. (The tape will take a few moments to reference.)
- 12 Select the last full backup on the tape and click Start.
  - If you have a differential backup performed after the latest full backup, restore it as well.
  - If you have any incremental backups performed after the latest full backup, restore those as well.
- 13 When you have restored all the files available from your backup tapes, you must run the NT setup program again. Insert the NT setup disk in your floppy drive or CD ROM drive and reboot the machine.
- 14 This time, choose **R** for Repair a Damaged Version and press **Enter** to continue.
- 15 Press the **ESC** key because you do not have an Emergency Repair Disk.
- 16 Press **Enter** to begin.
- 17 When the phrase "Setup will restore each registry file shown below with an X in its check box" displays, select all of the options (press the Enter key to mark each one with an X) and then press Enter to continue.
- 18 When the NT setup program has ended, reboot the machine and your recovery will be complete.

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# USING DOS

## System Requirements

To use Ditto Tools your system must meet the following minimum requirements.

- IBM or IBM-compatible with a 486 processor or higher
- 540K or more free RAM
- MS-DOS 5.0 (or higher) or PC-DOS 5.0 (or higher)
- 3MB free space on a hard disk
- 2X CD-ROM drive
- Mouse support provided (not required)

## Software Installation

- 1 Insert the Ditto Tools CD into the CD-ROM Drive.
- 2 Type **X:** (where X is the letter of your CD-ROM drive) and press Enter to change your DOS prompt to reflect the drive letter of your CD-ROM drive.
- 3 Type **CD DOS\ENGLISH\SETUP** and press Enter to begin the installation of Ditto Tools.
- 4 Follow the on-screen instructions to complete installation.
- 5 Be sure to send in your registration card.
- 6 Reboot your computer before running Ditto Tools.

*Note: When upgrading from a previous software version, the configuration and all existing catalog and setup files are preserved.*

## Hardware Configuration

In order for your system to recognize the drive, the following must be set properly.

- Video and Mouse
- Manufacturer
- Type of Drive (QIC or Parallel Port)
- I/O Address
- IRQ
- DMA
- CONFIG.SYS and AUTOEXEC.BAT files

The Compatibility Test must also be passed to ensure reliable backups.

For detailed information about each setting, please see the individual sections below. If after changing the settings the drive is still not found, refer to the hardware installation guide included with the drive.

### Video and Mouse

If you wish to change the default settings, set the following options.

- Screen Options: Screen Colors and Display Lines
- Mouse Options: Double-Click Speed, Acceleration, and Sensitivity

You can also set the mouse for left-handed operation or perform a hard mouse reset.

### I/O Address

Ditto Tools needs to know the I/O Address (Input/Output Address) of your parallel port (if you are using a parallel port tape drive) or your controller card (if you are using an internal tape drive).

## IRQ

Ditto Tools needs to know the IRQ (Interrupt Request) level of your parallel port (if you are using a parallel port tape drive) or your controller card (if you are using an internal tape drive).

## DMA

The DMA (Direct Memory Access) channel needs to be set when using an internal tape drive. A DMA test should also be performed to determine if Ditto Tools can access the hard drive and the tape drive at the same time; this speeds up backups.

**Note: It is possible that the DMA Test will cause your computer to stop running or lock. If this happens, neither your computer nor your data will be harmed. Simply follow the procedure outlined below.**

### To resume configuration

- 1 Restart the computer.
- 2 Restart your backup software. If necessary, switch to the drive where you installed your backup software (usually C:). Type **CD QBACKUP** and press **Enter**. Then type **QBACKUP** and press **Enter**.
- 3 Choose **Configure**.
- 4 Return to the **Configuration Tests** dialog box. The low-speed DMA setting will be selected. Do not change it.
- 5 Choose **Compatibility Test** and complete the tests for your drive.

## AUTOEXEC.BAT and CONFIG.SYS

The *AUTOEXEC.BAT* dialog box provides three options.

- Adding the program directory to the path statement
- Setting the QBACKUP Environment Variable
- Loading the Backup Scheduler TSR

Ditto Tools performs best when the following settings are in your CONFIG.SYS file.

- Buffers=30 (or more)
- Files=30 (or more)

### Compatibility Test

The Compatibility Test confirms the reliability of your system by running a small backup and compare. You will need one formatted tape with at least 600K bytes free to run the tape drive test.

To begin the test, choose **Start Test** and follow the directions on the screen.

**Caution: If your computer does not pass the Compatibility Test, your backup sets may not be reliable. Unless your computer is configured incorrectly or not operating properly, it should pass the test. If it doesn't, press F1 for help.**

After completing the Compatibility Test, choose **OK** to complete the Configuration Tests and continue configuring the software.

### Before Backing Up

You should reboot the computer if your CONFIG.SYS and/or AUTOEXEC.BAT files were changed. Then type **QBACKUP** at the DOS prompt and press **Enter** to start Ditto Tools.

If you did not allow Ditto Tools to modify your start-up files, you must change to the QBACKUP directory, type **QBACKUP**, and press **Enter**.

## Automatic Backups in DOS

Follow the screen instructions. See Chapter 5 in the on-line User's Guide for more information about scheduling.

### On-line Documentation

The Ditto Tools on-line User's Guide gives you access to additional information about your software and contacting Iomega. To access the User's Guide, change to the QBACKUP directory (refer to your operating system manual for information about changing directories), type **USERSGDE.EXE** at the prompt, and press **Enter**.

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# USING YOUR DITTO TAPE DRIVE

This guide contains the following sections:

- General Reference for all Ditto Tape Drives
- Specific Information for the Ditto 2GB Tape Drives
- Specific Information for the Ditto Max Tape Drives
- Specific Information for the Ditto Easy 3200 Tape Drives
- Solving Problems

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## GENERAL REFERENCE FOR ALL DITTO TAPE DRIVES

### Parallel Port Tape Drives

#### EPP and 8-Bit Bi-Directional Ports

Your parallel port tape drive is compatible with both EPP and 8-bit, bidirectional ports. Iomega recommends EPP whenever possible.

#### Overall Printer Cable Length and Cable Quality

Avoid low-quality printer cables and do not exceed an overall cable length (from computer to tape drive to printer) of 3 m (about 10 ft). If you have data-transfer problems, try using shorter or higher-quality cables.

#### Printers and Parallel Port Tape Drives

Your Ditto parallel port tape drive and printer share the parallel port. Therefore, if you are printing you cannot run the tape drive; and if you are running the tape drive, you cannot use the printer.

## Internal Tape Drives

### Removing a Floppy or Other Drive

If you remove a floppy or other drive from your computer to make room for the tape drive, remember to reconfigure your system when this installation is complete (Refer to your computer manual about "System Setup" or "CMOS Setup").

**Note:** The drive that was removed should be set to "none" in the CMOS settings.

### Operating Conditions

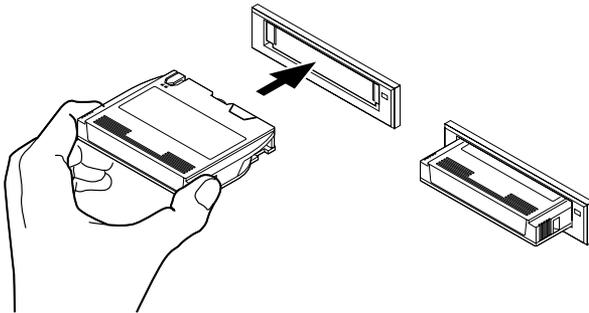
Let the drive and any tape minicartridges adjust to operating temperature (from 10°C to 45°C or 50°F to 113°F) before use. Do not operate the drive when condensation is present on the drive or tapes (or humidity is over 80%).

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# YOUR DITTO 2GB TAPE DRIVE

## Inserting and Removing Tapes

**Grip and insert your tape minicartridge as illustrated below. Push past the spring resistance of the drive until the minicartridge snaps into place, leaving about 3 cm (about 1 in) still outside the drive. To remove the tape minicartridge from the drive, grip as before and pull it straight out of the drive. Do not remove the minicartridge if the drive activity light is on and blinking. Remove tapes when not in use.**



## Tape Capacity and Compatibility

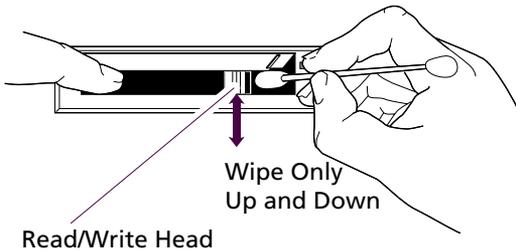
The Ditto 2GB tape is preformatted for you. The formatted capacity is 1 GB (giga-bytes). Compressing your raw data by a 2:1 ratio (compression ratios depend on data type) allows you to store up to 2 GB of data. Ditto 2GB drives will read and write as shown in the following table. We recommend using only Ditto 2GB tapes.

Compatible					
2GB	Drive(s)	Tape Format	Tape Type	Read	Write
2GB		Ditto 2GB	Ditto 2GB	YES	YES
2GB		Ditto 2GB	Ditto 3.7GB*	YES	YES
2GB		QIC-3020 Travan	TR-3	YES	NO
2GB		QIC-3020 Wide	3020XLF	YES	NO
2GB		QIC-3020	3020XL	YES	NO
2GB		QIC-80 Travan	TR-1	YES	NO
2GB		QIC-80 Wide	5122	YES	NO
2GB		QIC-80XL	2120XL	YES	NO
2GB		QIC-80	2080 or 2120	YES	NO

\*Ditto 3.7GB tapes soon to be available.

## Cleaning Read/Write Head

After approximately every twenty-five hours of operation, clean the read/write head with a foam swab (**do not use a cotton swab**) moistened in pharmaceutical grade isopropyl alcohol (make sure that the alcohol has no additives such as lanolin). Push open the tape access door, locate the head, and wipe the head up and down as illustrated below (**not sideways**) using very light pressure.

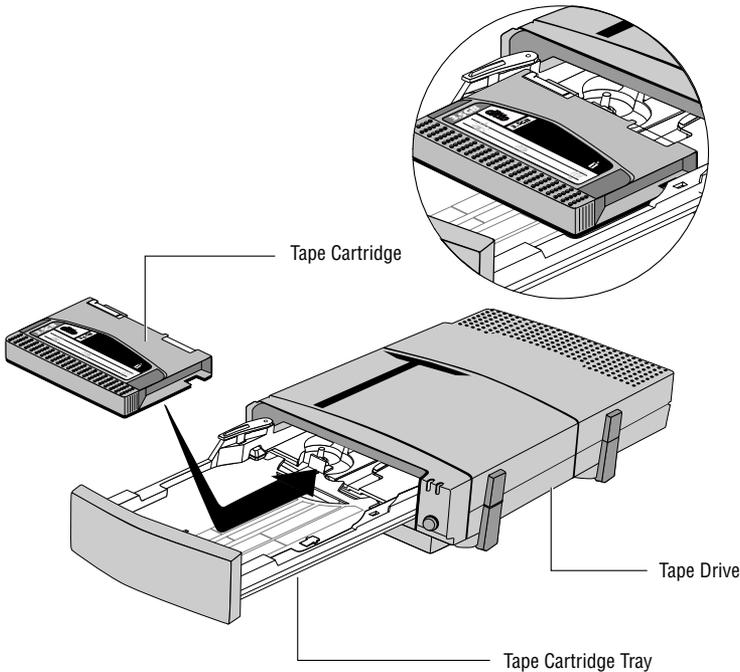


**Caution:** No other maintenance procedures are authorized by Iomega. Attempting to service the drive in any other way will void the warranty. (NEVER touch the read/write head or any other internal part of the drive with your fingers.) QIC-80 cleaning cartridges are NOT compatible with QIC-3020 Travan drives and will damage the read/write head.

# YOUR DITTO MAX TAPE DRIVE

## Inserting and Removing Tapes

Place the tape minicartridge in the drive tray as illustrated below and gently push the tray closed. To remove the tape cartridge from the drive, press the eject button and remove the tape cartridge when the tray has opened. Do not remove the tape cartridge if the drive activity light is on and blinking. Remove tapes when not in use.



**Caution:** Use the eject/load button to close the tray. Do not force the tray closed with your hand. Do not leave your fingers in the tray as it closes.

## Tape Capacity

All Ditto Max 3GB, 5GB, 7GB, and 10GB tapes are preformatted for you.

The formatted capacity of a Ditto Max 3GB tape is 1.5 GB. Compressing your raw data by a 2:1 ratio (compression ratios depend on data type) allows you to store up to 3 GB of data.

The formatted capacity of a Ditto Max 5GB tape is 2.5 GB. Compressing your raw data by a 2:1 ratio (compression ratios depend on data type) allows you to store up to 5 GB of data.

The formatted capacity of a Ditto Max 7GB tape is 3.5 GB. Compressing your raw data by a 2:1 ratio (compression ratios depend on data type) allows you to store up to 7 GB of data.

The formatted capacity of a Ditto Max 10GB tape is 5 GB. Compressing your raw data by a 2:1 ratio (compression ratios depend on data type) allows you to store up to 10 GB of data.

## Tape Compatibility

Ditto Max drives will read and write as shown in the following table. We recommend using only Ditto Max tapes.

<b>Tape Format</b>	<b>Read</b>	<b>Write</b>
Ditto Max	YES	YES
Ditto 2GB	YES	NO
QIC-3020	YES	NO
QIC-3010	NO	NO

**Caution:** TR-1, QIC-80 series, and QIC-40 series tapes are not compatible with the Ditto Max drive. Use of these tapes and will damage the read/write head and will void the warranty.

## Cleaning the Read/Write Head

After approximately every twenty-five hours of operation, Iomega recommends that you clean the read/write head of the Ditto Max drive using the Iomega Cleaning Cartridge. Simply place the cartridge in the OmniTray, close the tray, and let the cleaning cartridge go to work. See the Accessories section on the back panel for more information about the cleaning cartridge.

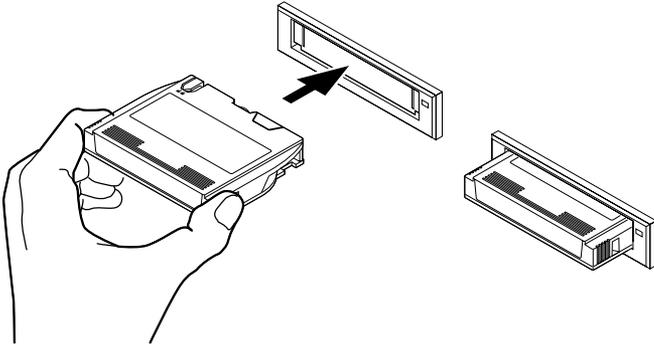
**Caution:** No other maintenance procedures are authorized by Iomega. Attempting to service the drive in any other way will void the warranty. NEVER touch the read/write head or any other internal part of the drive with your fingers. QIC-80 cleaning cartridges are NOT compatible with Ditto Max drives and will damage the read/write head.

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# YOUR DITTO EASY 3200 TAPE DRIVE

## Inserting and Removing Tapes

**Grip and insert your tape minicartridge. Push past the spring resistance of the drive until the minicartridge snaps into place, leaving about 3 cm (about 1 in) still outside the drive. To remove the tape minicartridge from the drive, grip as before and pull it straight out of the drive. Do not remove the minicartridge if the drive activity light is on and blinking. Remove tapes when not in use.**



## Tape Capacity and Compatibility

When using preformatted tapes with your Ditto Easy 3200 drive, Iomega recommends Travan preformatted tapes. The formatted capacity of Ditto Easy 3200 tapes (Travan TR-3) are about 1.6 GB. Compressing your raw data by a 2:1 ratio (compression ratios depend on data type) allows you to store up to 3.2 GB of data on the tapes.

Ditto Easy drives will read, write, and format as shown in the following table.

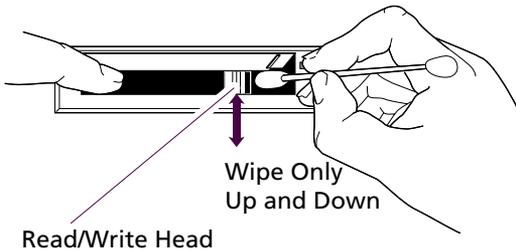
Tape Format	Tape Type	Read	Write	Format
QIC-3020 Travan	TR-3	YES	YES	YES
QIC-3010 Travan	TR-2	YES	NO	NO
QIC-3020 Wide	3020XLF	YES	YES	YES
QIC-3020	3020XL	YES	YES	YES
QIC-3010 Wide	3010XLF	YES	NO	NO
QIC-3010	3010XL	YES	NO	NO
QIC-80 Travan	TR-1	YES	NO	NO
QIC-80 Wide	5122	YES	NO	NO
QIC-80XL	2120XL	YES	NO	NO
QIC-80	2080 or 2120	YES	NO	NO

## Reformatting Tapes

Old tapes and tapes that are generating too many errors should be bulk-erased and reformatted using your software format options. Erasing tapes with a commercial-grade bulk eraser is the best way to ensure that your tape is ready for reformatting. Commercial-grade bulk erasers are available at many computer dealers.

## Cleaning Read/Write Head

After approximately every twenty-five hours of operation, clean the read/write head with a foam swab (do not use a cotton swab) moistened in pharmaceutical grade isopropyl alcohol (make sure that the alcohol has no additives such as lanolin). Push open the tape access door, locate the head, and wipe the head up and down (not sideways) as illustrated below using very light pressure.



**CAUTION** No other maintenance procedures are authorized by Iomega. Attempting to service the drive in any other way will void the warranty. NEVER touch the read/write head or any other internal part of the drive with your fingers. QIC-80 cleaning cartridges are NOT compatible with QIC-3020 Travan drives and will damage the read/write head.

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# SOLVING PROBLEMS

Many solutions to common questions and problems are answered in the Iomega FaxBack Service (801) 778-5763 or in the on-line services (refer to **Contacting Iomega** in this guide).

- 1 I'm installing the tape drive and I cannot get it to work. My floppy drive lights are on and I get an FDC (floppy disk controller) failure. Possible Solution:** Check the pin-one orientation of all connections involved with your tape drive installation. Refer to your hardware installation guide and those steps that discuss and illustrate connections.
- 2 I get erratic, inconsistent performance, or the tape drive is not seen. Possible Solutions:** (a) Make sure that the data and power connections are straight and secure. (b) Refer to your software manual for solutions involving software timing issues with programs like screen savers, screen clocks, etc. (c) Reposition your tape drive as far as possible from your hard drive, CD-ROM, and/or monitor. (d) If you installed the Ditto Dash accelerator, make sure that your internal tape drive is connected to it.

- 3 My drive works intermittently, or fails formats and has too many bad blocks in the certify. Possible Solutions:** (a) There may be a conflict with other adapter cards in the computer. Refer to the documentation for other cards and try to resolve addressing conflicts. (b) The tape might be degrading. Try using a newer tape. (c) Clean the read/write head according to the instructions in this guide. (d) If you are using DOS software, try to free up more conventional memory (at least 540 K). If you are using Windows software, try starting windows in standard mode using the command "win /s". (e) Reposition your tape drive as far as possible from your hard drive, CD-ROM, and/or monitor.
- 4 Why can't I get full capacity from my Ditto tape?**  
**Answer:** Compression ratios depend on data type. If your original data can be compressed by a 2:1 ratio, you can get full capacity from your Ditto tape.
- 5 I am having trouble restoring files. Possible Solutions:** (a) Rebuild the catalog using the backup software. (b) Clean the read/write head. (c) Boot your computer with a minimal set of drivers. (During boot, press F8 when you see "Starting MSDOS." Then answer "NO" to all DEVICE= and DEVICEHIGH= lines. (d) Run without software or disk-controller caching. (e) Set backup software to run at a slower speed (see on-line backup software manual for configuration information).

- 6**     **I get mismatches during the compare process.**  
Possible Solutions: (a) Re-tension the tape using the Ditto Tools re-tension option in your backup software. (b) Try a new tape. (c) Reposition the tape drive as far as possible from your hard drive/ CD-ROM and/or monitor. (d) It is normal for files that are changed during backup to mismatch at the end of the backup.
  
- 7**     **I get errors like "Unable to update the tape header" or "Unable to read tape volume table."**  
Possible Solutions: (a) Iomega preformatted tape minicartridges are recommended. (b) Re-tension the tape using the re-tension option in your backup software. (c) There may be a conflict with other adapter cards in the computer. Refer to the documentation for other cards and try to resolve addressing, DMA, or interrupt conflicts.
  
- 8**     **The tape-activity light stays on (and is not blinking) after exiting from the backup software.**  
Possible Solution: For some reason, the backup software did not return the tape to BOT (beginning of tape) or EOT (end of tape). This is not a problem; simply pull the tape out of the drive.
  
- 9**     **I am experiencing write-protect errors.** Possible Solutions: (a) Make sure the write-protect tab on your tape cartridge is not in the write-protect position. (c) Make sure you are using the correct tape minicartridge. Some minicartridges cannot be written to, but can be read. The Ditto 2GB drive reads and writes to Ditto 2GB and TR-2 formatted cartridges.

- 10 I have installed the Ditto Dash in my computer system and am having problems configuring it to run with my computer. Refer to the *Solving Problems* section of the *Ditto Dash Installation Guide and User's Reference*, or to the documentation for the accelerator or controller you are using.

### Special Solutions for *Parallel Port Drive* Problems

- 1 My software fails to recognize the tape drive or reports format failure, compare errors, or a high number of corrected errors. *Possible Solutions:* (a) Make sure the tape drive is plugged in. (b) Make sure the tape drive is positioned at least 25 cm (about 10 in) from the monitor.
- 2 The printer connected to my drive doesn't work. *Possible Solutions:* (a) Make sure the printer is turned on and the tape drive is plugged in. (b) Check all cable connections. (c) Refer to *Important Compatibility Information* in the *Installing Your External Tape Drive* section of this guide. (d) Do not try to print and run a backup simultaneously. The printer and tape drive share the parallel port, and both devices cannot use it at the same time.

### Special Solutions for *DOS Software Users*

I am unable to use data compression, or the system locks up in the compare process. *Possible Solution:* Free enough memory for the software to run properly. Execute the DOS MEM command at the DOS prompt to find the largest executable program size, and make sure there is at least 540KB (kilobytes) available.

## More Problem-Solving Help

More solutions may be present in the README file on your backup software disk. Additionally, many solutions to common questions and problems are answered in the Iomega FaxBack Service (801) 778-5763 or in the on-line services (refer to [Contacting Iomega](#) in this guide).

# WARRANTY

Omega warrants its products to be in conformance to mutually agreed upon written specifications and to be free from defects in material and workmanship. Unless otherwise stated in the product specific documentation received with the product, Omega's warranty periods are: Ditto Easy 800, Ditto Easy 3200 drives, Ditto 2GB, and Ditto Max drives - two (2) years; Omega or Ditto tape cartridges - two (2) years; The above warranty period shall begin on the date of shipment by Omega to Purchaser or, if Purchaser is an authorized reseller of such Omega products, from the date of shipment by the reseller to the reseller's original customer. Omega shall, at its option and cost, either repair or replace the products with new or reconditioned products and parts provided the products are returned by Purchaser along with dated and serialized proof of purchase to Omega or to an Omega authorized service facility, transportation and insurance prepaid, within the above warranty period and which are found by Omega to be defective within the terms of this warranty. Products repaired or replaced by Omega under this warranty will be returned by Omega to Purchaser, transportation and insurance prepaid. Replaced products and parts shall become the property of Omega. If any products returned by Purchaser to Omega for repair or replacement are found by Omega after examination and testing, not to be defective, Omega shall so advise Purchaser and shall dispose of any such products in accordance with Purchaser's instructions and at Purchaser's cost, and Purchaser shall reimburse Omega for examination and testing expenses incurred at Omega's then current rates.

CONTINUED USE OR POSSESSION OF THE PRODUCTS AFTER EXPIRATION OF THE ABOVE WARRANTY PERIOD SHALL BE CONCLUSIVE EVIDENCE THAT THE WARRANTY IS FULFILLED TO THE FULL SATISFACTION OF PURCHASER.

The warranty set forth above shall not apply to failure or deficiency which has been caused by misuse, abnormal or unusually heavy use, neglect, alteration, improper installation, unauthorized repair or modification, improper testing, accident or causes external to the product such as but not limited to excessive heat or humidity, power failure, or improper installation. Such warranty shall also not apply to expendable components such as but not limited to fuses, bulbs, and normal cleaning accessories such as pads and filter. Omega makes NO WARRANTY as to any software products, which are supplied by it "AS-IS" or as to any experimental or developmental products, or as to products not manufactured by Omega. Omega's warranty as set forth above shall not be enlarged, diminished or affected by, and no liability shall arise out of, Omega's rendering of technical advice in connection with Purchaser's order. The warranty set forth above is not assignable by Purchaser.

Purchaser's sole remedy under the above warranty shall be repair or replacement as provided above. Omega's sole and exclusive maximum liability for any claim by Purchaser or anyone claiming through or on behalf of Purchaser arising out of Purchaser's order or the above warranty shall not in any event exceed the actual amount paid by Purchaser to Omega for the product. In no event shall Omega be liable for any indirect, incidental, collateral, exemplary, consequential or special damages or losses arising out of Purchaser's order of products delivered under it or out of the above warranty, including without limitation loss of use, profits, goodwill or savings, or loss of data, data files, or programs that may have been stored by the user. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to Purchaser.

Where applicable, if Purchaser qualifies as a "consumer" under the Magnuson-Moss Warranty Act, then Purchaser shall be entitled to any implied warranties allowed by law for the period of the express warranty as set forth above. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to Purchaser. EXCEPT AS STATED ABOVE IN THIS PARAGRAPH, THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER CONDITIONS OR WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION, AN IMPLIED CONDITION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND OF ANY OTHER WARRANTY OBLIGATION ON THE PART OF OMEGA. This warranty gives U.S. Purchasers specific legal rights and Purchasers may also have other rights which vary from State to State.

## Declaration of Conformity

We, the undersigned, declare that the equipment specified below conforms to the following directives.

73/23/EEC, 89/336/EEC	Manufacturer	Legal Representative
Application of Council Directives	<i>Wayne Stewart</i>	<i>Michael Schwend</i>
EN 55022, EN 50082-1, EN 60950	Signature	Signature
Declared Conformity to Standards	Wayne Stewart	Michael Schwend
IOMEGA Corp.	Full Name	Full Name
Manufacturer's Name	Vice President, Operations	Operations Manager, GMBH
1821 West Iomega Way, Roy, UT, USA	Position	Position
Manufacturer's Address	Roy, Utah, USA	Freiburg, Germany
(801) 778-1000	Location	Location
Manufacturer's Telephone Number	9/15/97	9/15/97
IOMEGA International, S.A.	Date	Date
Importer's Name	IO3020-PX3, IO2000-PX, IO1000-MX	Ditto
Information Technology Equipment	Model No.	Name
Type of Equipment		

## United States FCC Information

The computer equipment described in this installation guide generates and uses radio frequency (RF) energy. If the equipment is not installed and operated in strict accordance with the manufacturer's instructions, interference to radio and television reception may result.

■ **INTERFERENCE** *This equipment complies with Part 15 of the FCC Rules and its operation is subject to the following conditions: (1) the equipment may not cause harmful interference, and (2) the equipment must accept any interference received, including interference that may cause undesired operation.* ■

Part 15, Class B, of the FCC Rules is designed to provide reasonable protection against radio and television interference in a residential installation. Although the equipment has been tested and found to comply with allowed RF emission limits, as specified in the above cited rules, there is no guarantee that interference will not occur in a particular situation. Interference can be determined by turning the equipment on and off while monitoring radio or television reception. The user may be able to eliminate any interference observed by implementing one or more of the following measures.

- Reorient the affected device and/or its receiving antenna.
- Increase the distance between the affected device and the computer equipment.
- Plug the computer and its peripherals into a different electrical circuit from that used by the affected device.

■ **WARNING** *Only the manufacturer's shielded host interface cable, or an equivalent cable, is allowed for use with this product. Other types of cables will void the manufacturer's warranty and violate FCC rules and regulations. Also, changes or modifications to the electronics or enclosure of this product must be expressly approved by Iomega; otherwise, the user's authority to operate the equipment may be voided by the FCC.* ■

## Canadian DOC Information

The digital apparatus referenced in this guide does not exceed the Class B limits for radio noise emissions from digital devices as set out in the Radio Interference Regulations of the Canadian Department of Communications.

In North America this product is supplied with a UL-listed and Canadian-certified Class II power unit with a rated output of 15V, 1.8A.

## VCCI情報

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Your Iomega tape product uses intelligent circuitry to conserve electrical energy when not in operation. The energy star emblem does not represent EPA endorsement of any product or service.



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**Iomega provides a variety of ways for you to find answers to your questions about your Ditto drive, accessories, or the Ditto Tools backup software. We recommend that you complete these steps in the order listed below; this will save you time and, possibly, money.**

### **On-line Help File**

**The Ditto Tools software contains an on-line help file with index and find options that can speed your search for information. To use this help file/user's guide, select it from the Ditto Tools menu or press any Help buttons (or F1) while running Ditto Tools.**

### **Iomega Installation and User Guides**

**Your hardware/software installation and user guides contain valuable information about connecting the Ditto drive to your computer and running Ditto Tools. If you have misplaced the guide(s) that came with the drive, you can view the guide(s) on-line from the Ditto Tools CD using Acrobat Reader.**

**The Acrobat Reader is free and can be downloaded from Adobe's web site ([www.adobe.com](http://www.adobe.com)). After installing Acrobat Reader you can choose to view or print the "Ditto.pdf" file on the Ditto Tools CD.**

## **lomega on the Internet**

**lomega's web site has a large amount of news, facts, tips, and technical information available to you 24 hours a day.**

**Internet Home Page**

**<http://www.iomega.com>**

**American Online™**

**Keyword: lomega**

**Microsoft Network**

**Goword: lomega**

## **lomega FaxBack (801) 778-5763**

**If you do not have access to the Internet, the FaxBack service contains many of the same documents and is available 24 hours a day. You can call the FaxBack number and choose the documents you would like faxed to you.**

## **One-on-One lomega Technical Support**

**One-on-one technical support is free of charge for issues lomega determines relate to a defect in an lomega product. Other issues are charged at the rate of \$14.99 per incident for Ditto products. You can call 1-888-4-IOMEGA, toll free, to charge the support cost to your credit card (VISA, MasterCard, American Express, or Discover), or, you can call 1-900-4-IOMEGA to put the support cost on your phone bill. Either way, the charge will be reversed if your issue is found by lomega to be due to a product defect. lomega's highly trained technical support associates are ready to take your call Monday through Friday from 6 a.m. to 6 p.m. Mountain time (USA & Canada only).**